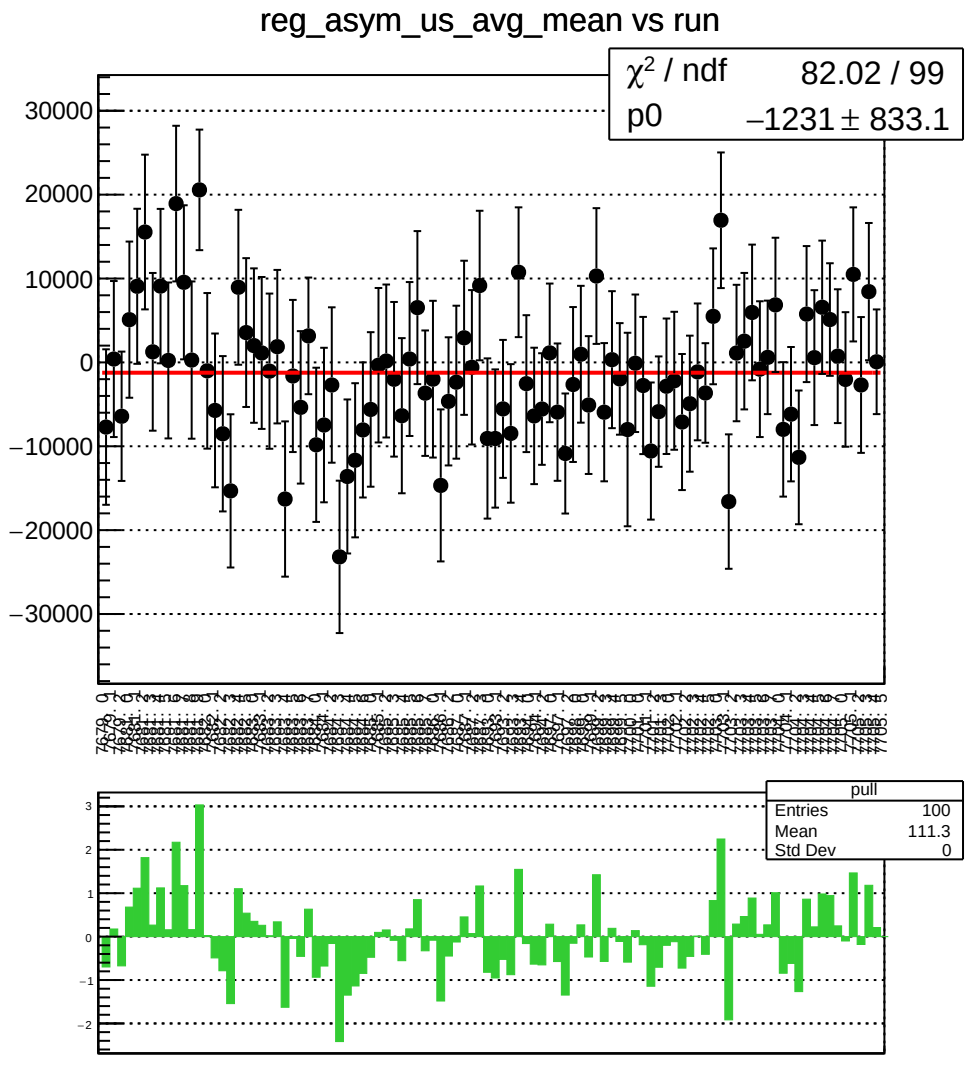
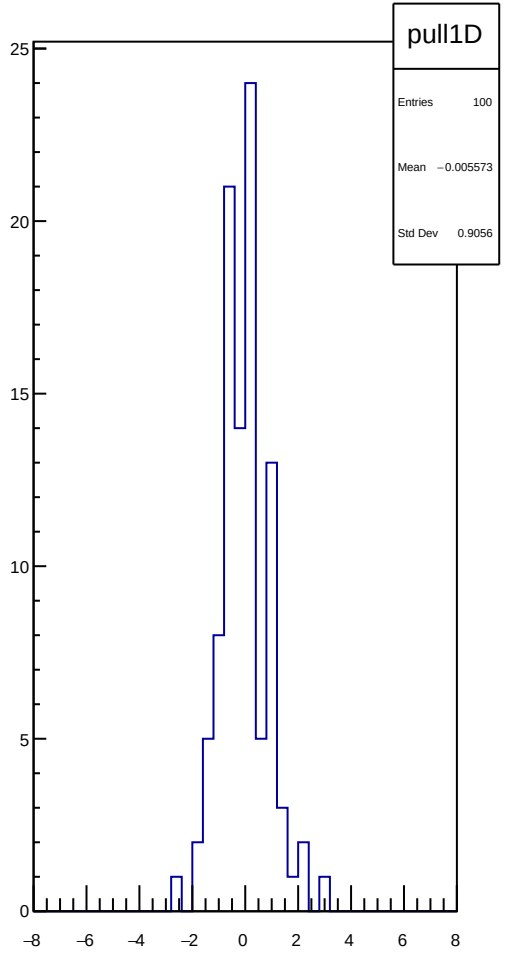
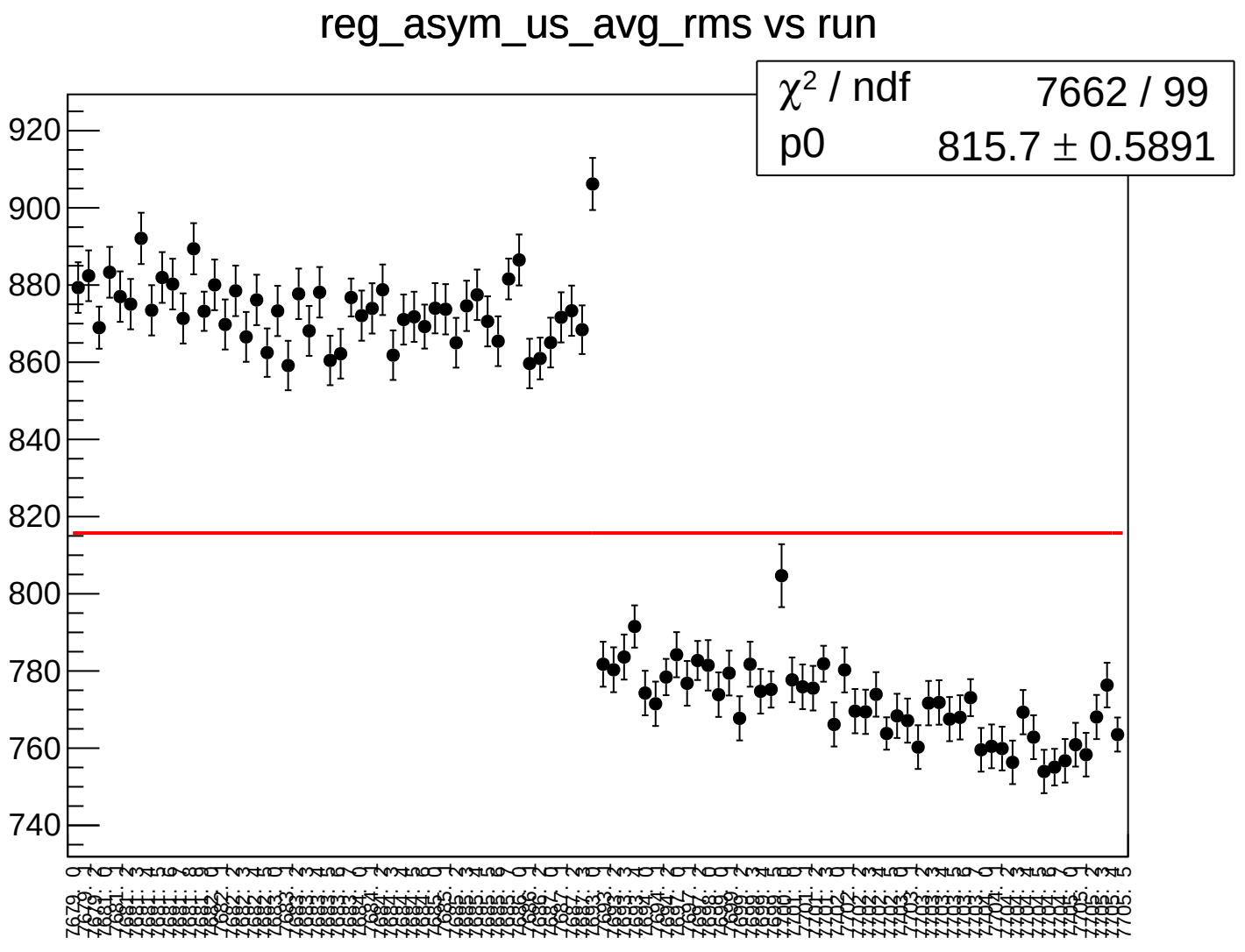
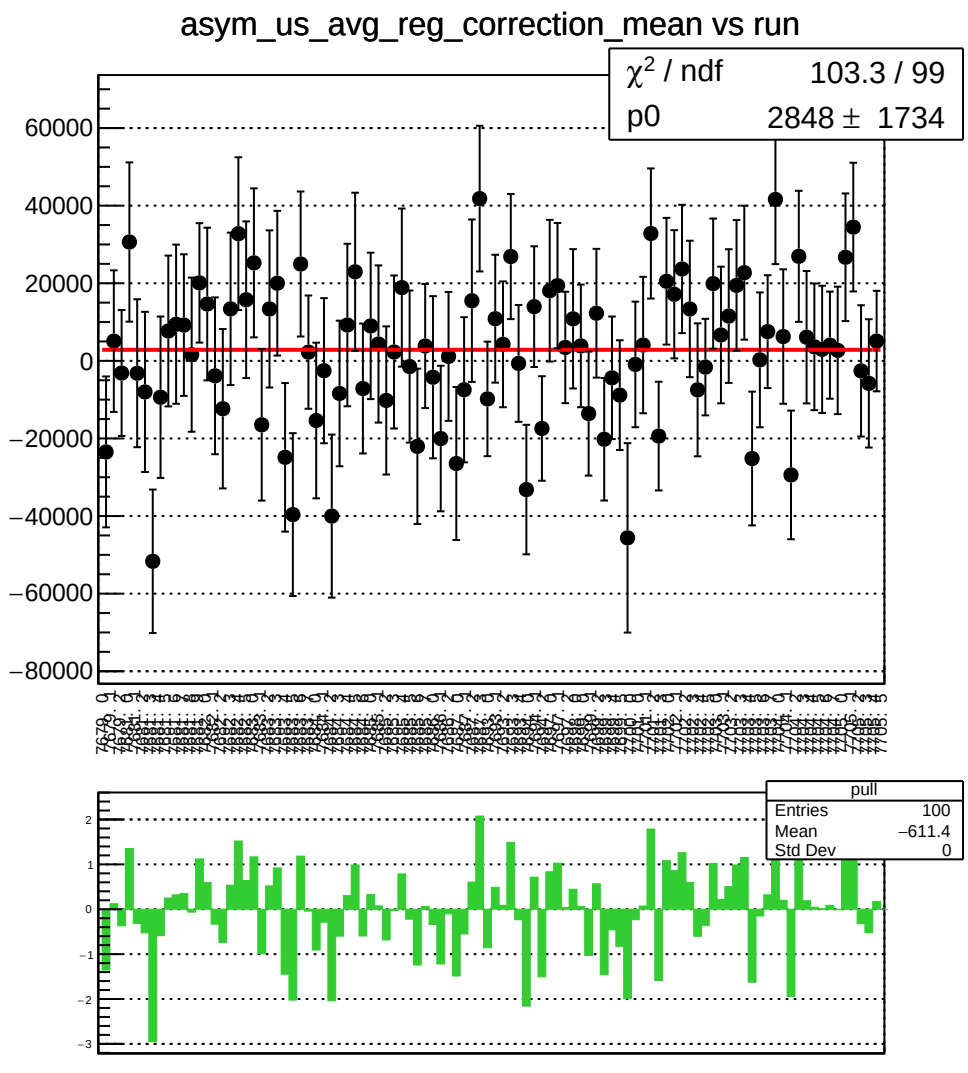
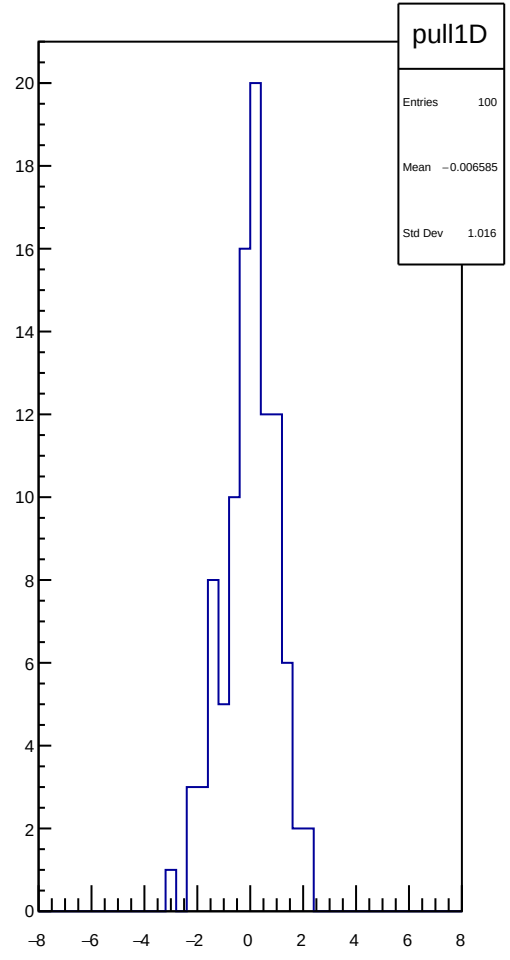
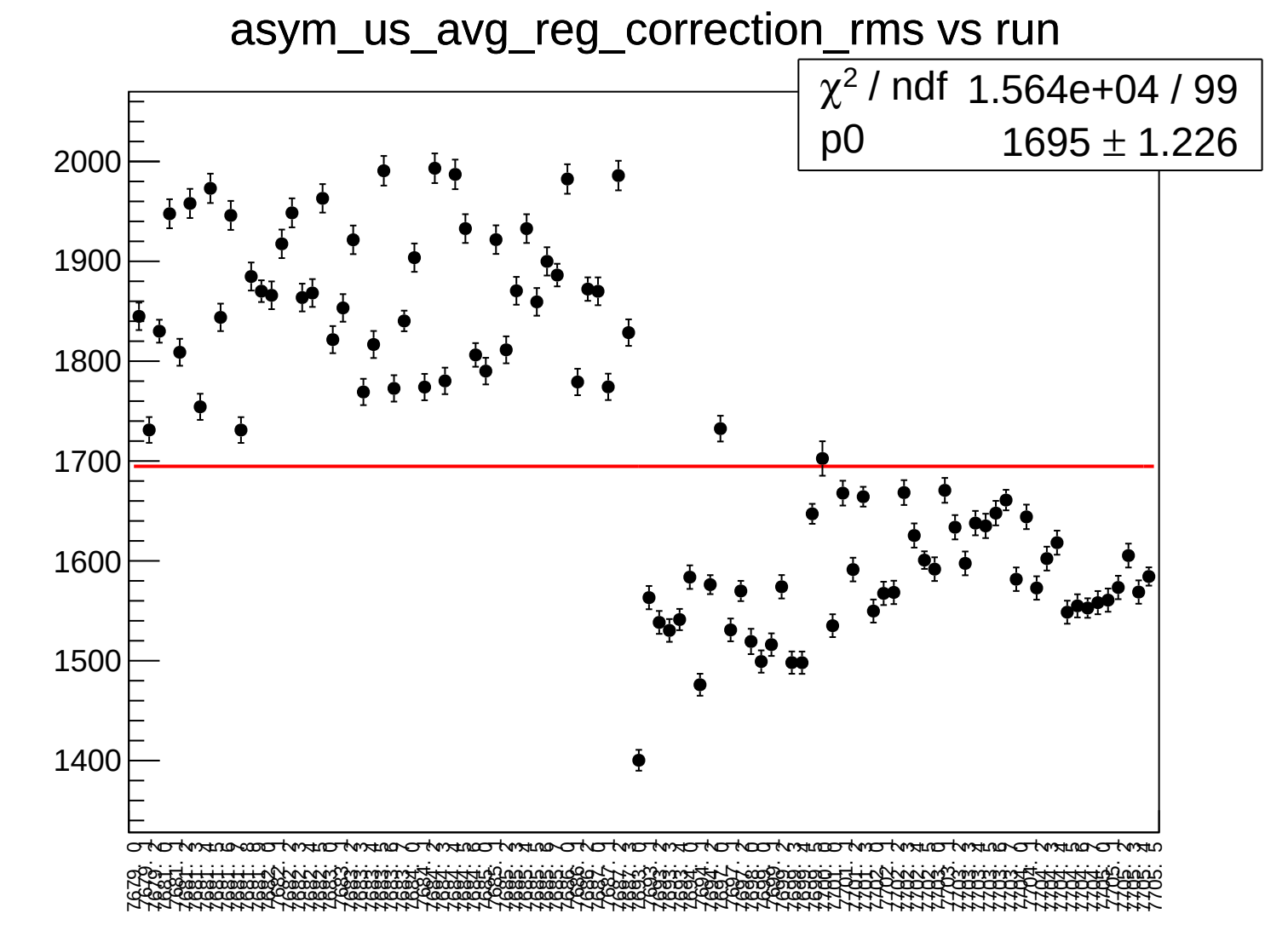

reg_asym_us_avg_mean vs run
χ² / ndf 82.02 / 99
p0 −1231 ± 833.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 100
Mean 111.3
Std Dev 0
3
2
1
0
−1
−2

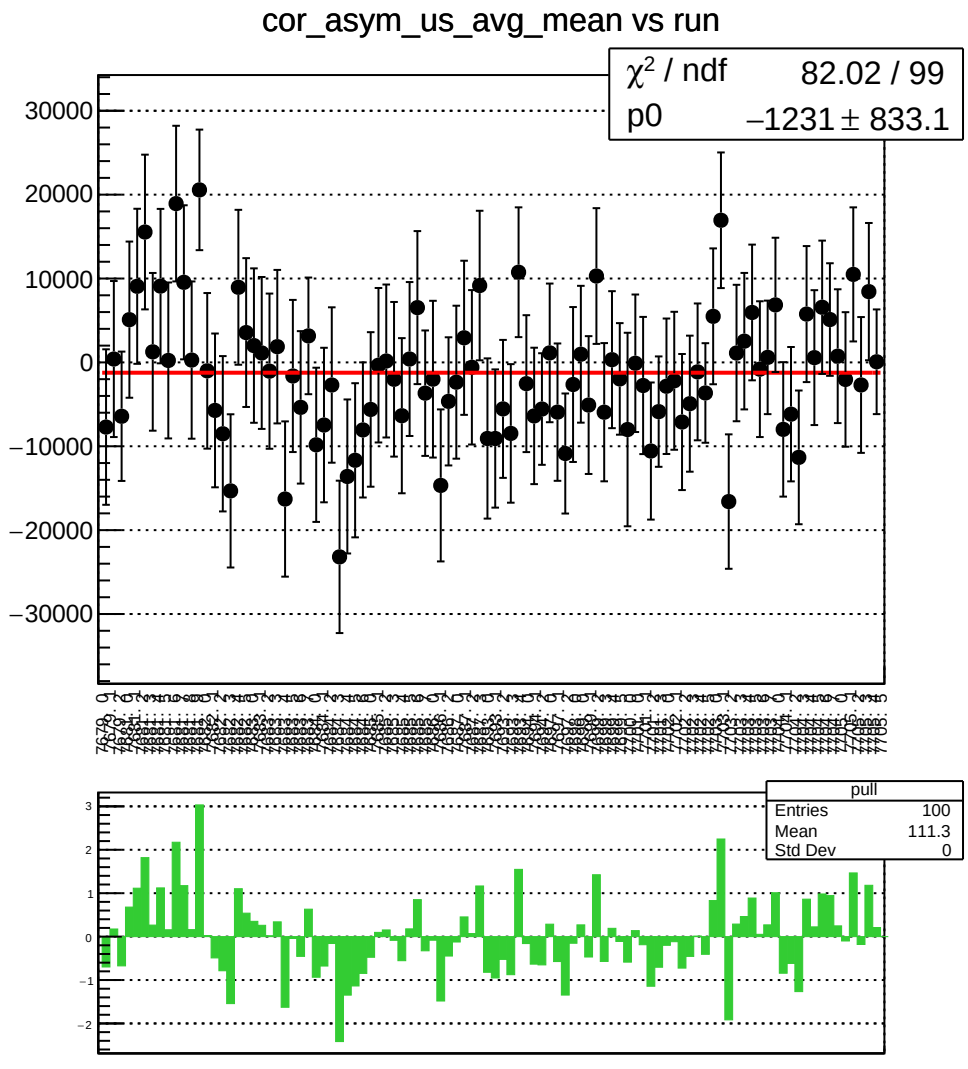

pull1D
Entries 100
Mean −0.005573
Std Dev 0.9056
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

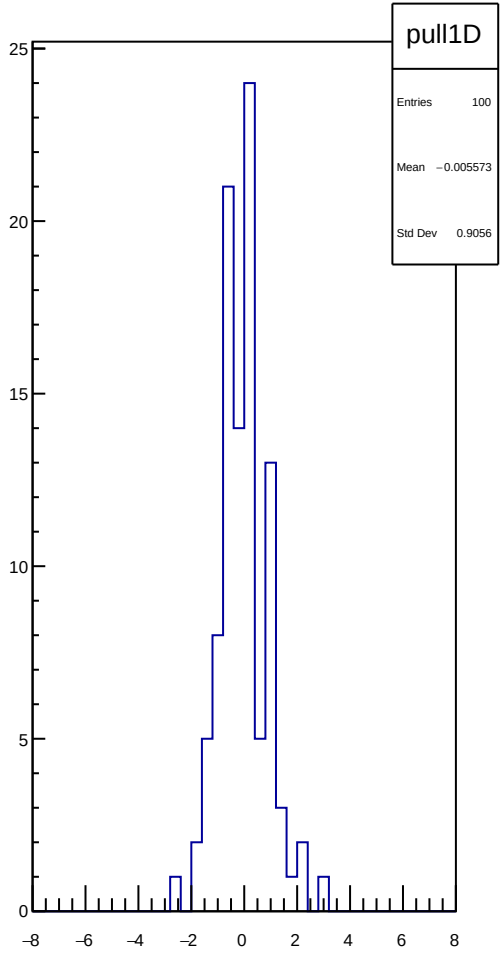

reg_asym_us_avg_rms vs run
χ² / ndf 7662 / 99
p0 815.7 ± 0.5891
920
900
880
860
840
820
800
780
760
740


asym_us_avg_reg_correction_mean vs run
χ² / ndf 103.3 / 99
p0 2848 ± 1734
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −611.4
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 100
Mean −0.006585
Std Dev 1.016
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_reg_correction_rms vs run
χ² / ndf 1.564e+04 / 99
p0 1695 ± 1.226
2000
1900
1800
1700
1600
1500
1400


cor_asym_us_avg_mean vs run
χ² / ndf 82.02 / 99
p0 −1231 ± 833.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 100
Mean 111.3
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 100
Mean −0.005573
Std Dev 0.9056
25
20
15
10
5
0
−8
−6
−4
−2
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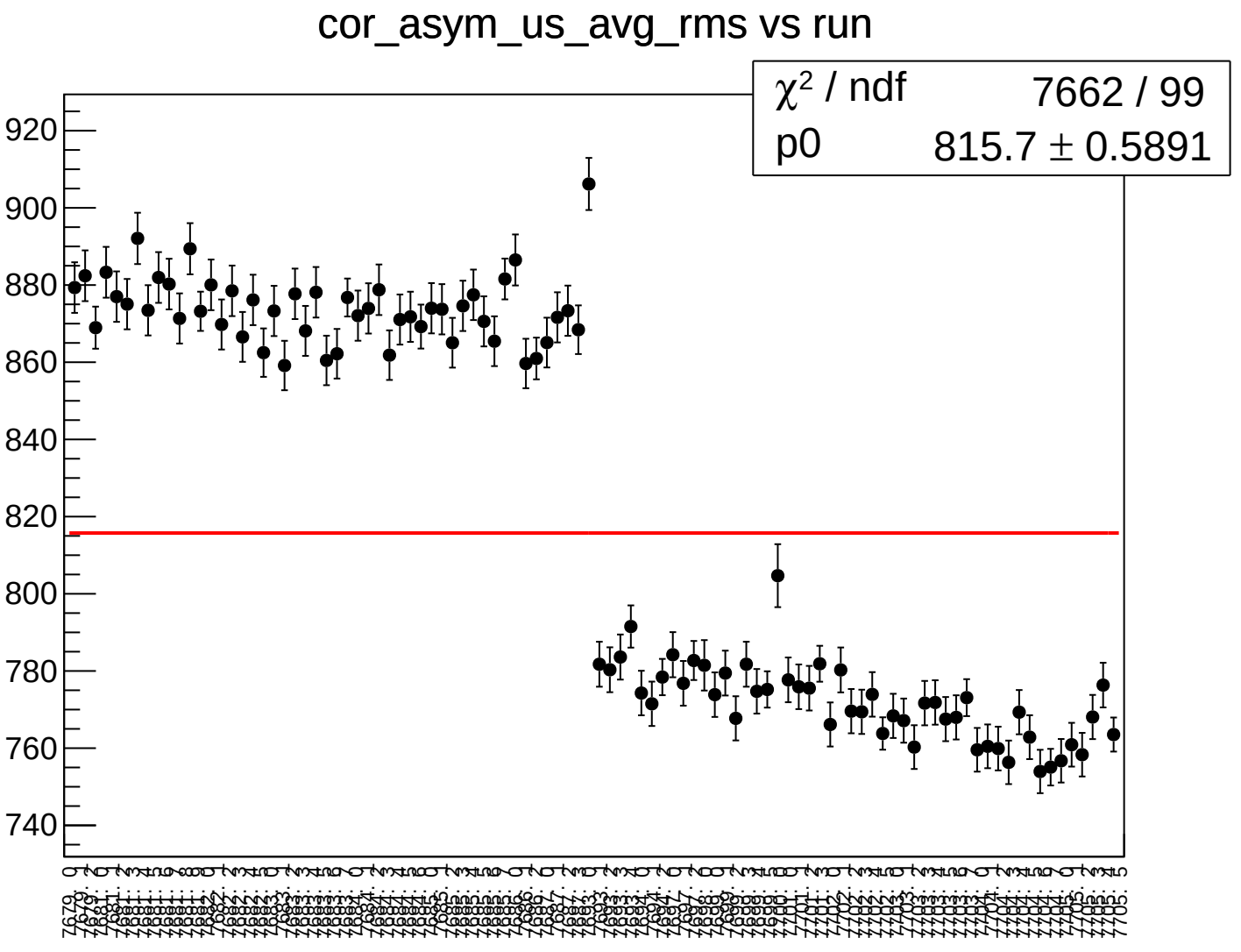
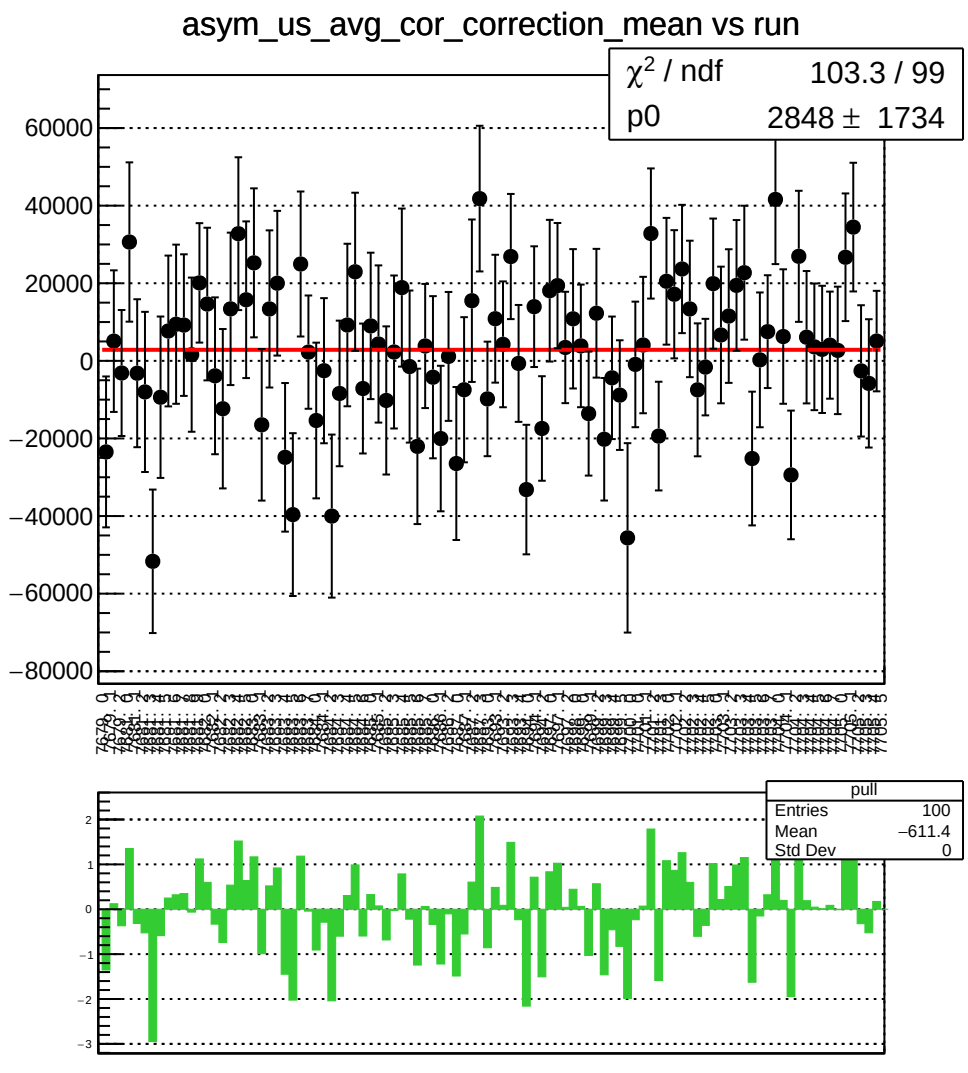
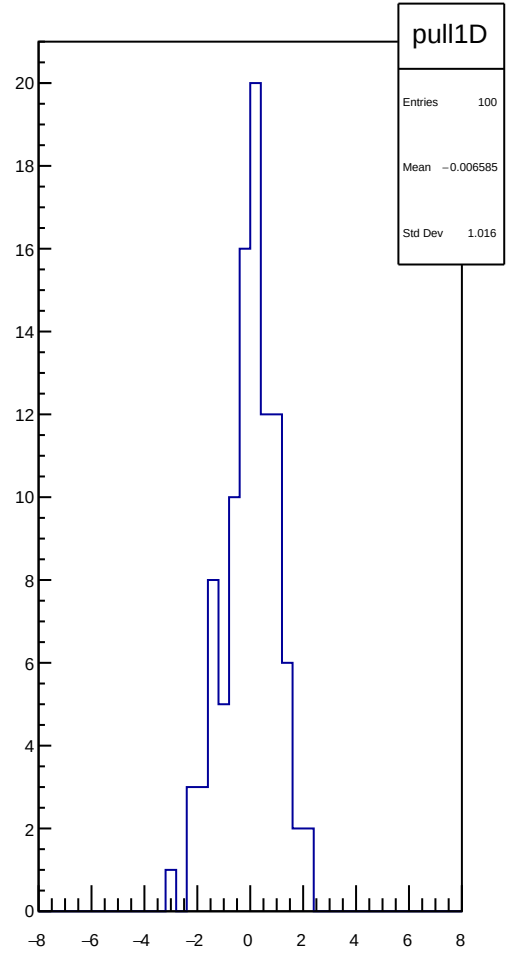
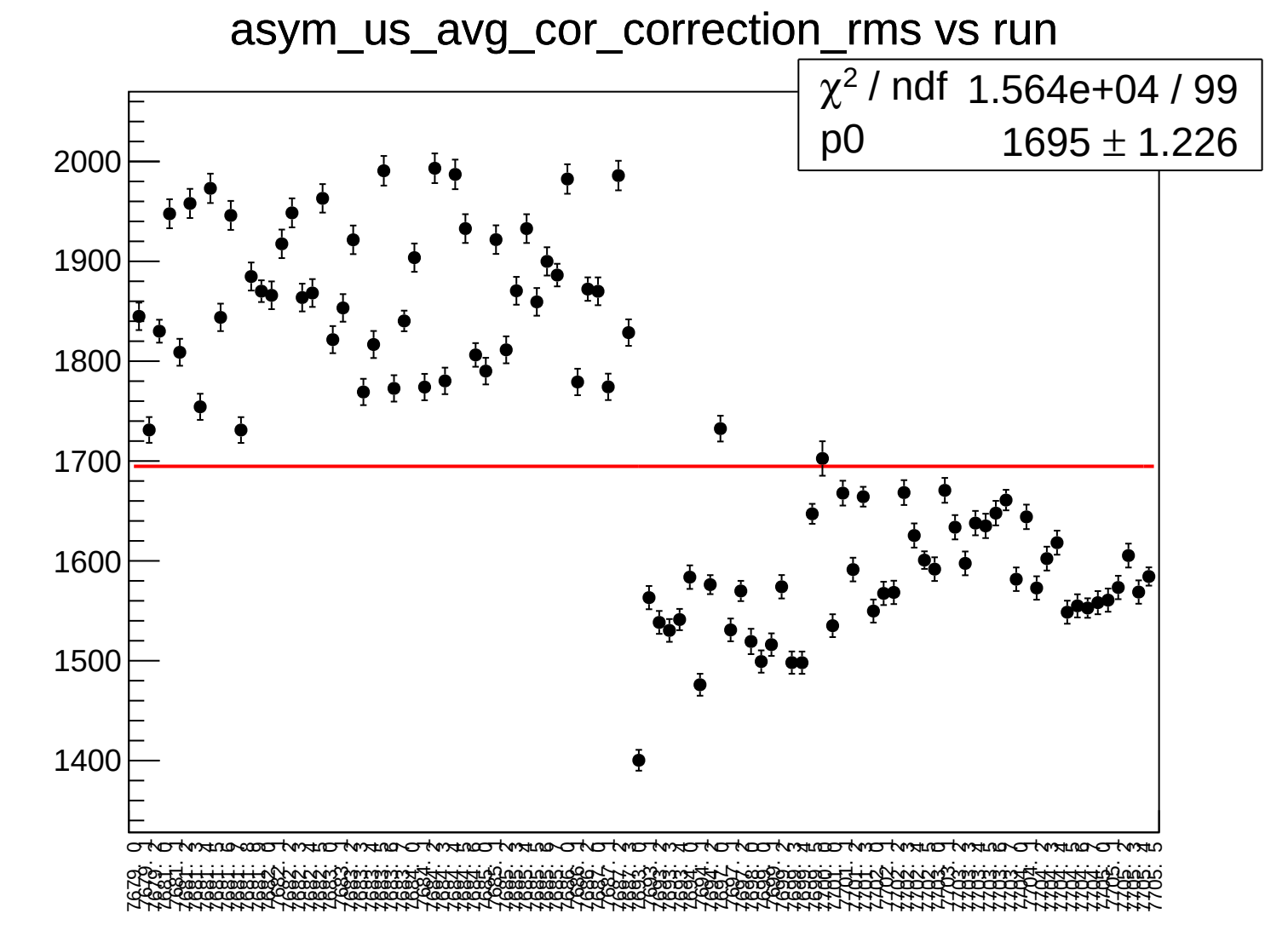
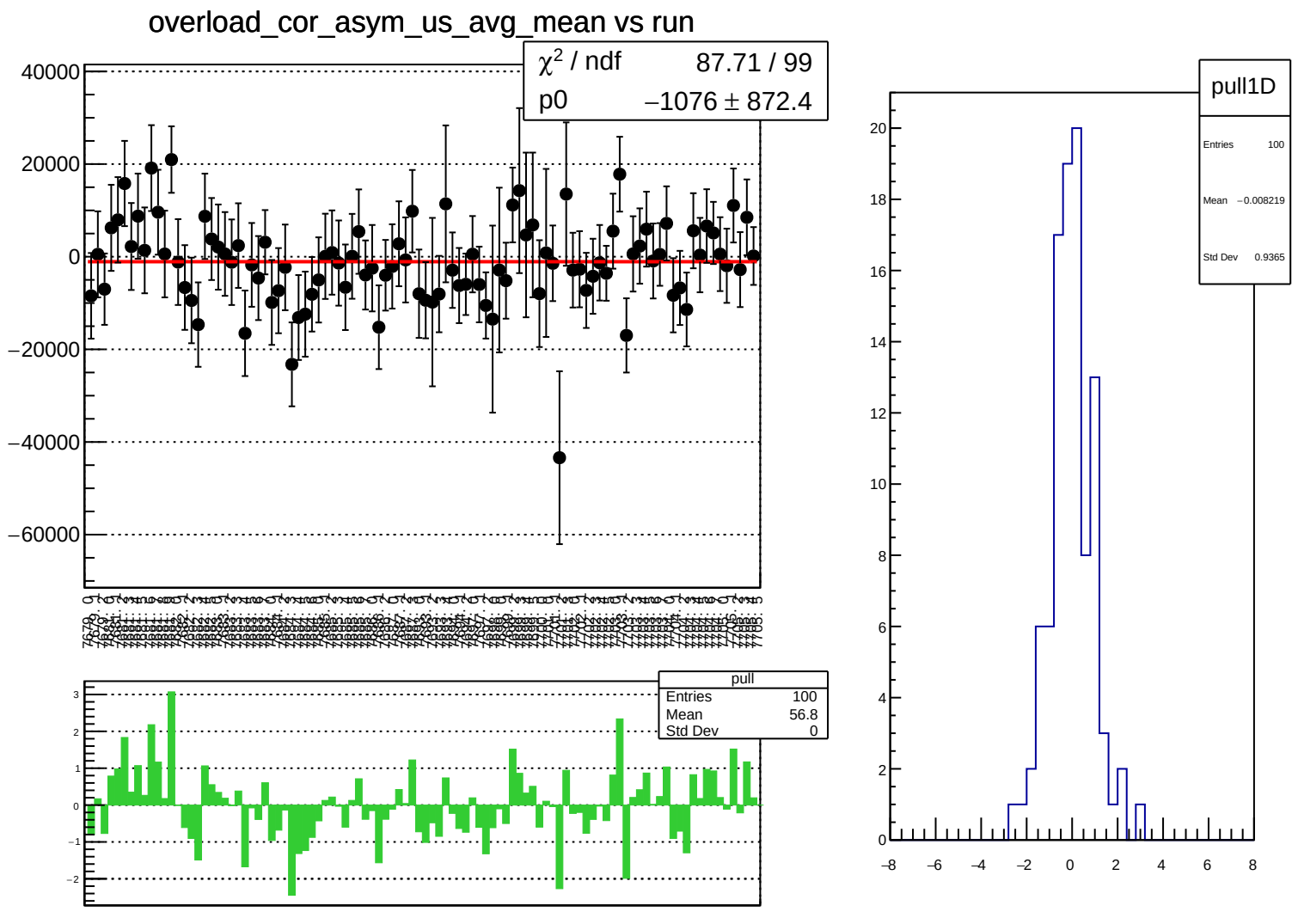
2
4
6
8

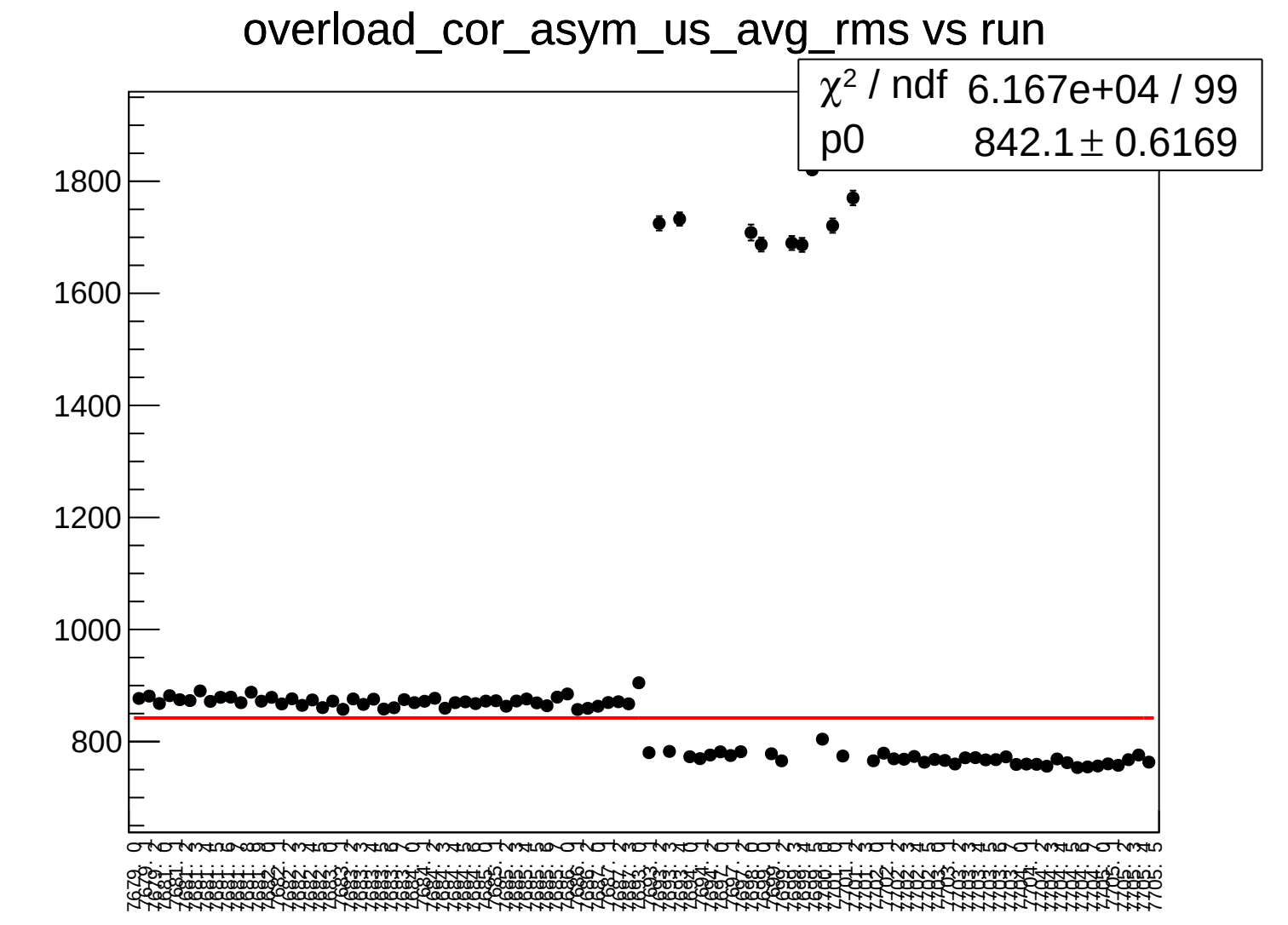

cor_asym_us_avg_rms vs run
χ² / ndf 7662 / 99
p0 815.7 ± 0.5891
920
900
880
860
840
820
800
780
760
740

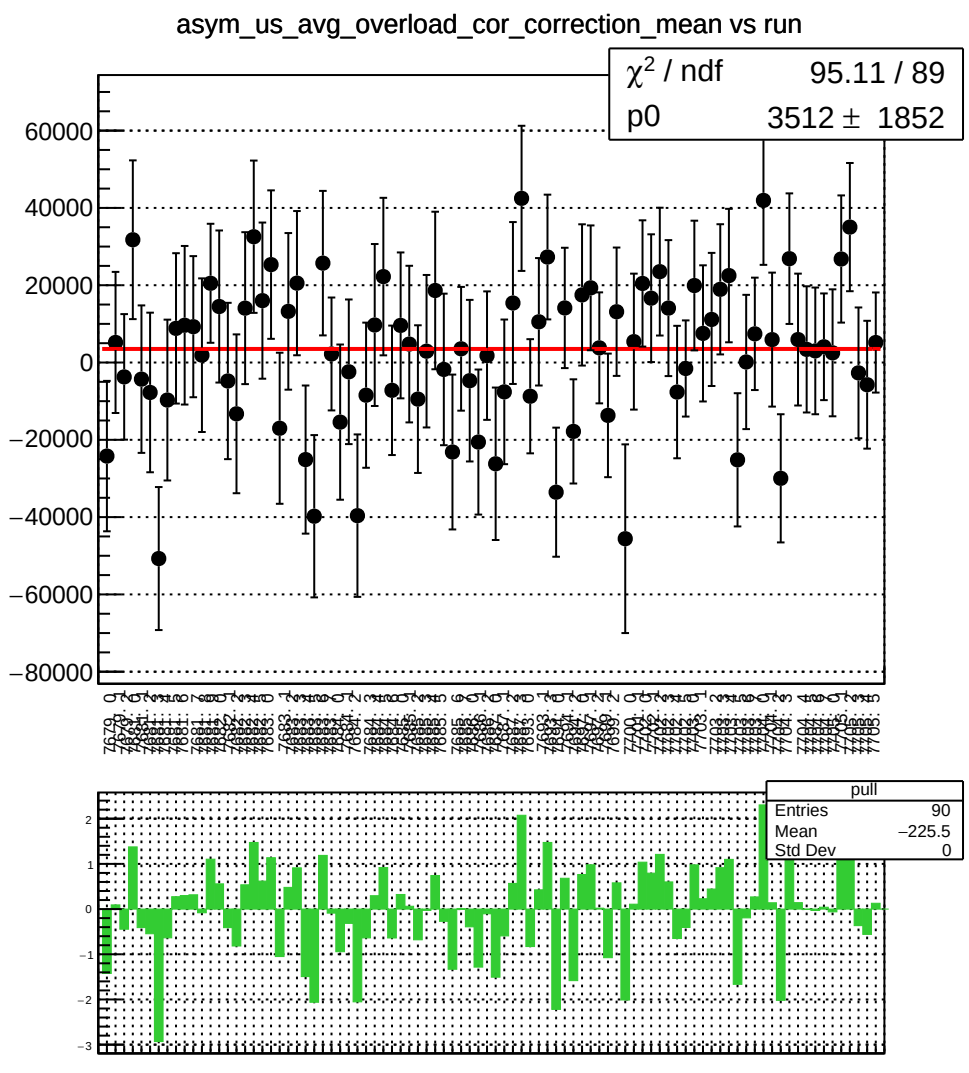

asym_us_avg_cor_correction_mean vs run
χ² / ndf 103.3 / 99
p0 2848 ± 1734
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −611.4
Std Dev 0
2
1
0
−1
−2
−3

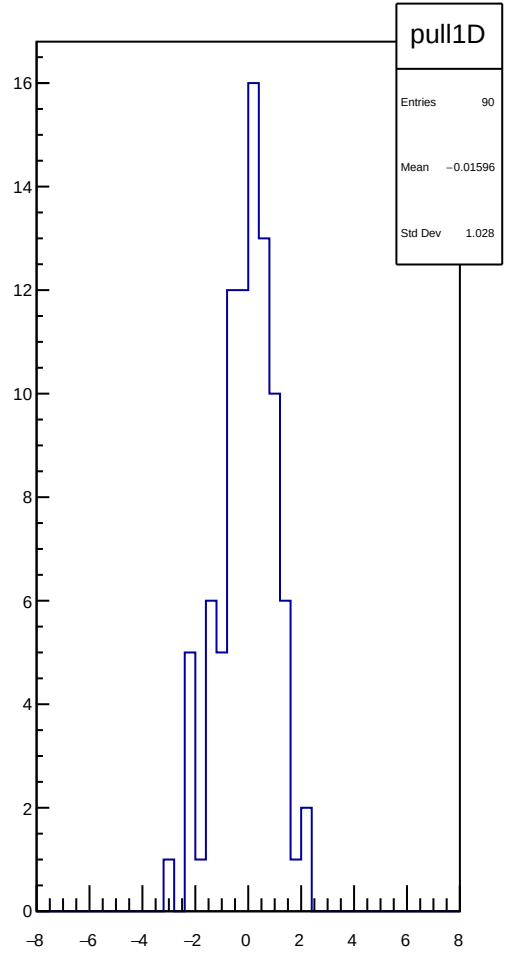

pull1D
Entries 100
Mean −0.006585
Std Dev 1.016
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

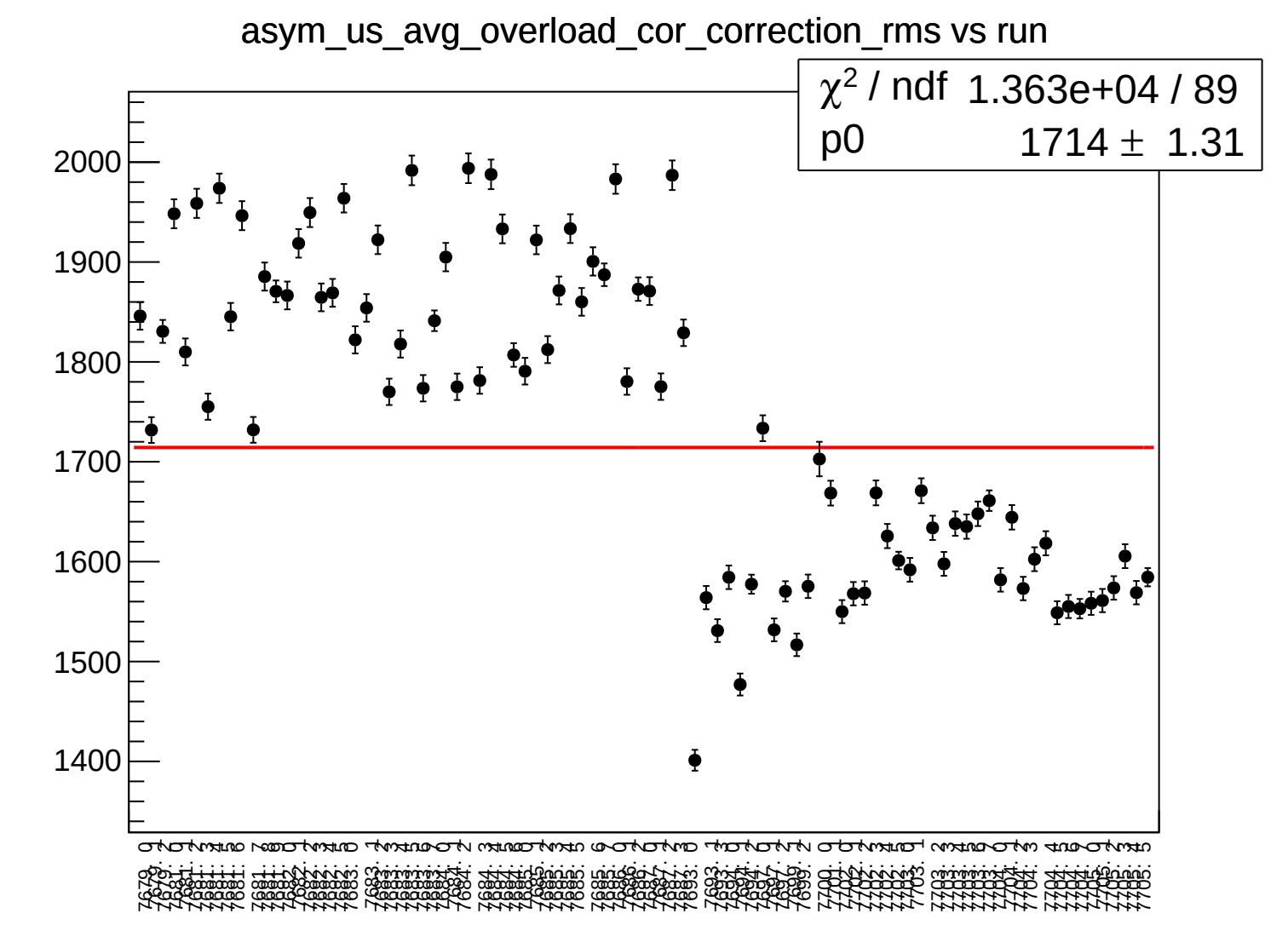

asym_us_avg_cor_correction_rms vs run
χ² / ndf 1.564e+04 / 99
p0 1695 ± 1.226
2000
1900
1800
1700
1600
1500
1400

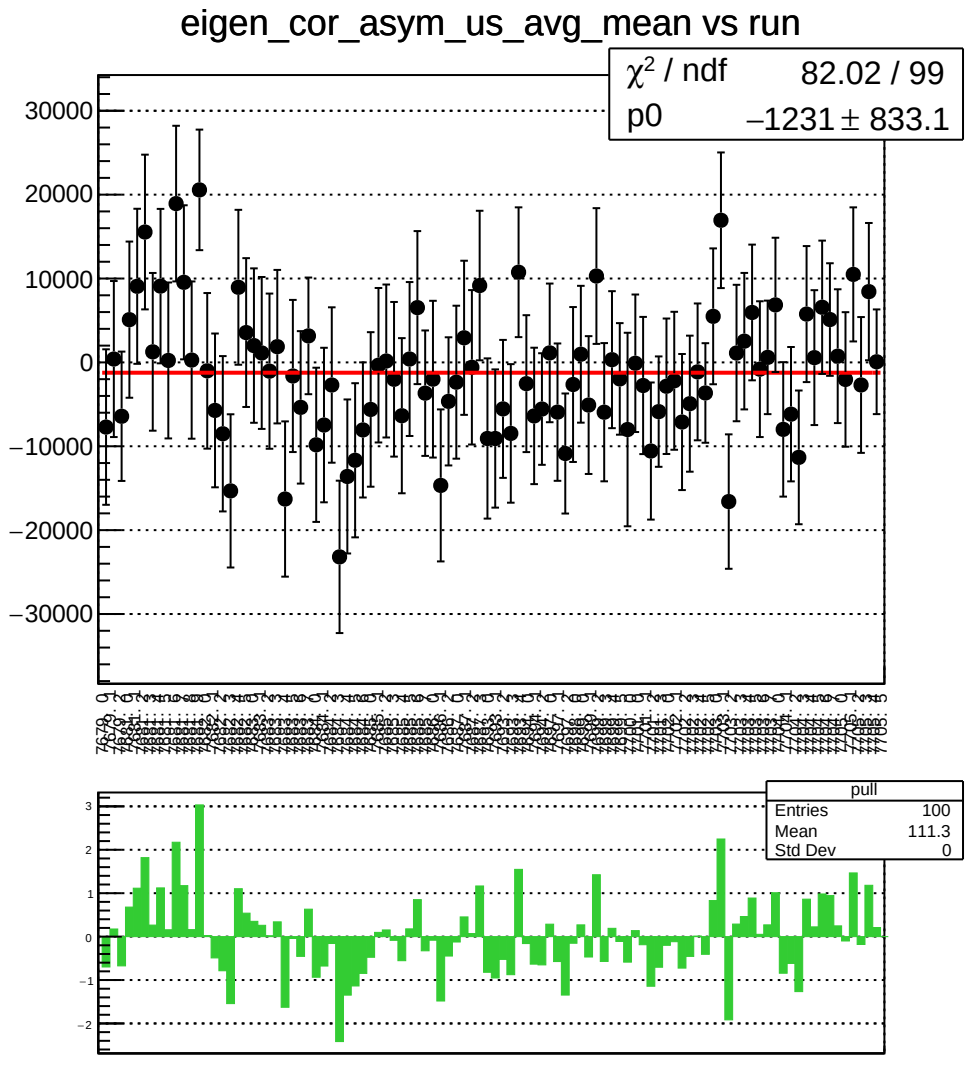

overload_cor_asym_us_avg_mean vs run
χ² / ndf 87.71 / 99
p0 −1076 ± 872.4
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean 56.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.008219
Std Dev 0.9365
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

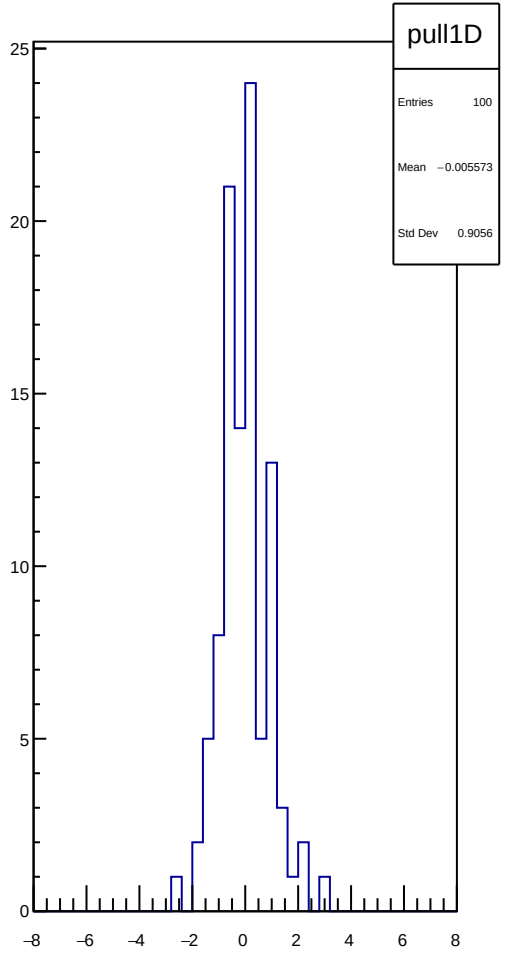

overload_cor_asym_us_avg_rms vs run
χ² / ndf 6.167e+04 / 99
p0 842.1 ± 0.6169
1800
1600
1400
1200
1000
800


asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 95.11 / 89
p0 3512 ± 1852
pull
Entries 90
Mean −225.5
Std Dev 0


pull1D
Entries 90
Mean −0.01596
Std Dev 1.028


asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 1.363e+04 / 89
p0 1714 ± 1.31
2000
1900
1800
1700
1600
1500
1400


eigen_cor_asym_us_avg_mean vs run
χ² / ndf 82.02 / 99
p0 −1231 ± 833.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 100
Mean 111.3
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 100
Mean −0.005573
Std Dev 0.9056
25
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5
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−4
−2
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2
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6
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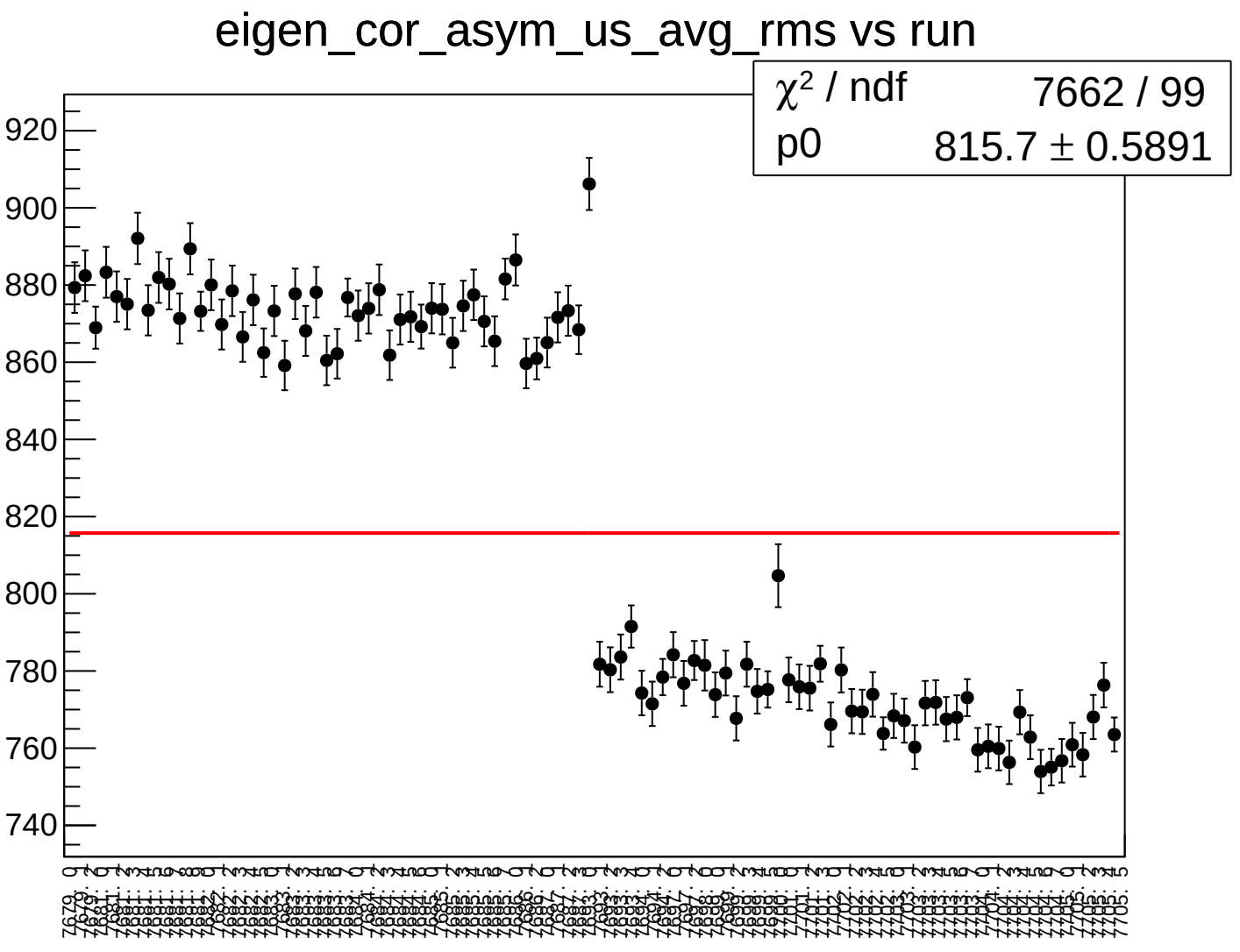
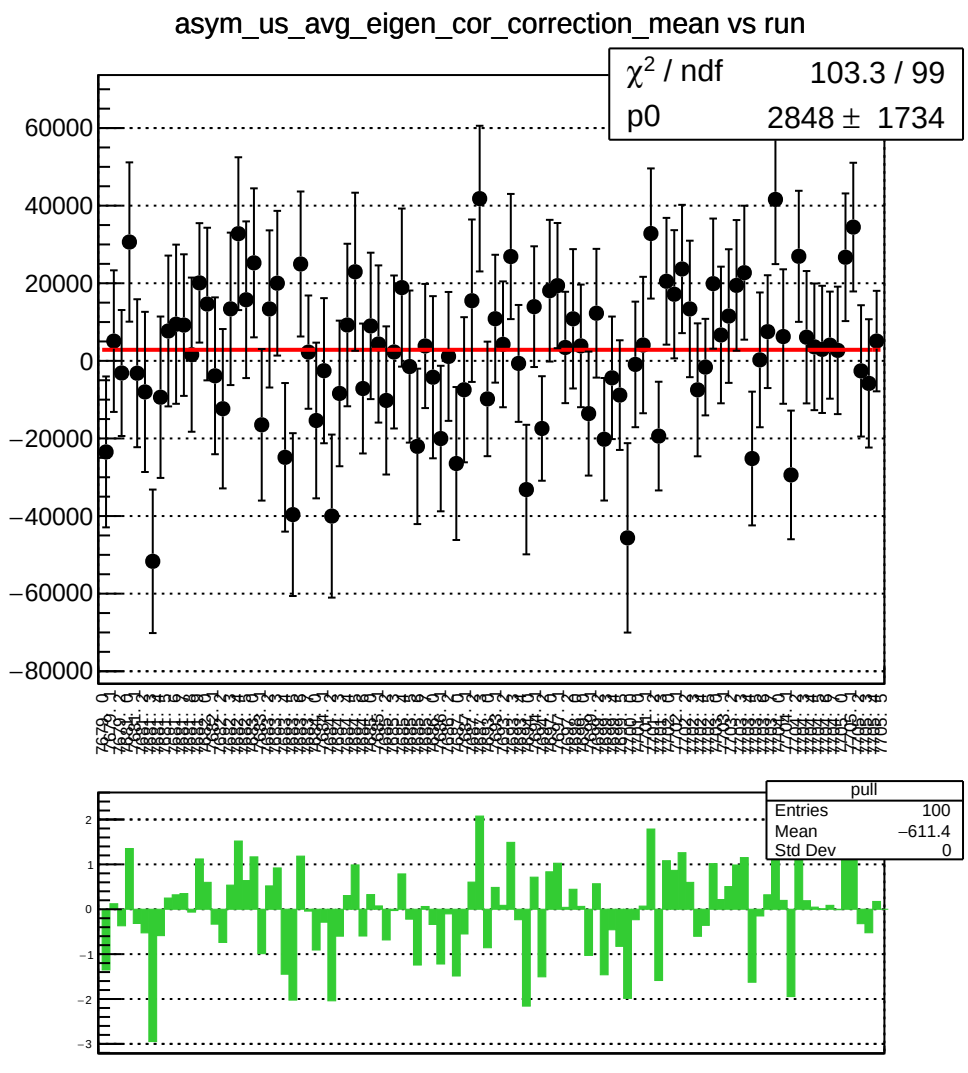
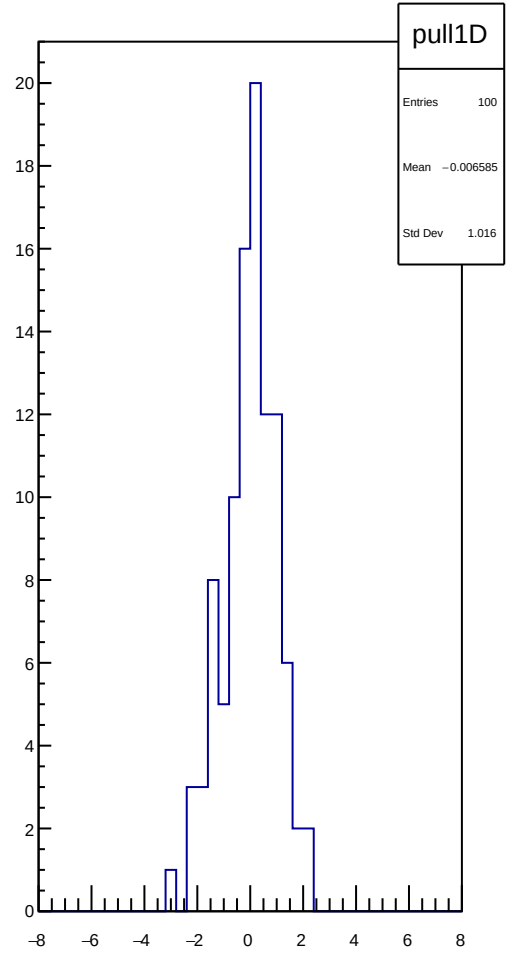

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 7662 / 99
p0 815.7 ± 0.5891
920
900
880
860
840
820
800
780
760
740


asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 103.3 / 99
p0 2848 ± 1734
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −611.4
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 100
Mean −0.006585
Std Dev 1.016
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
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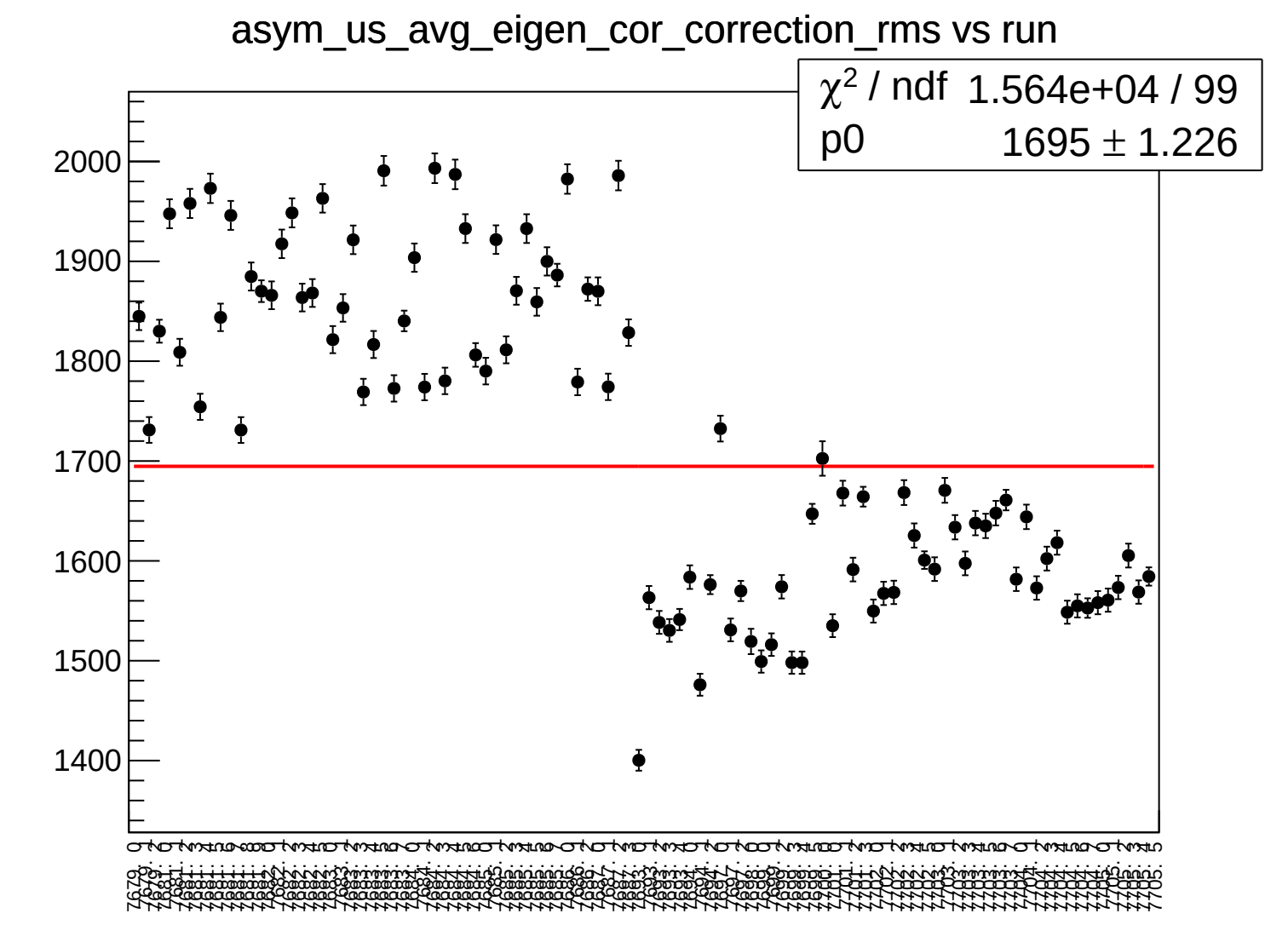
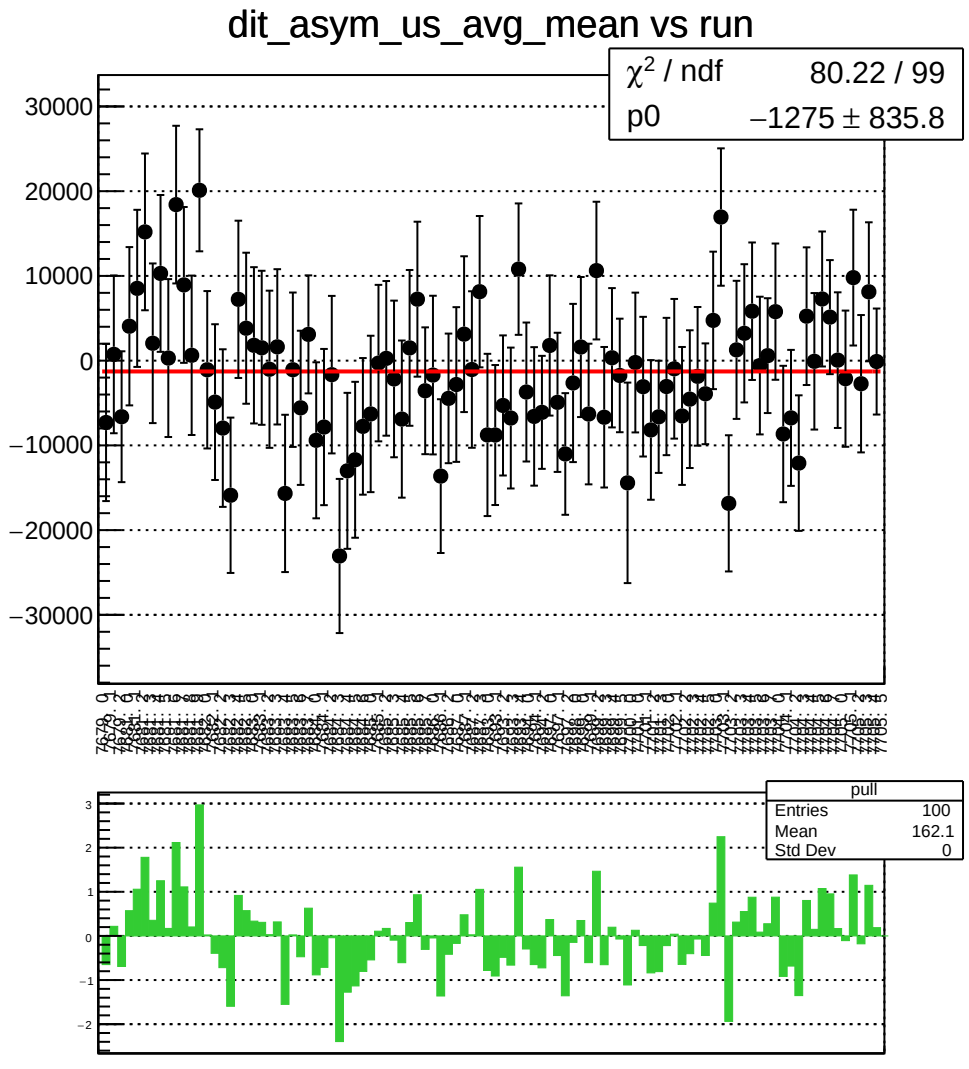
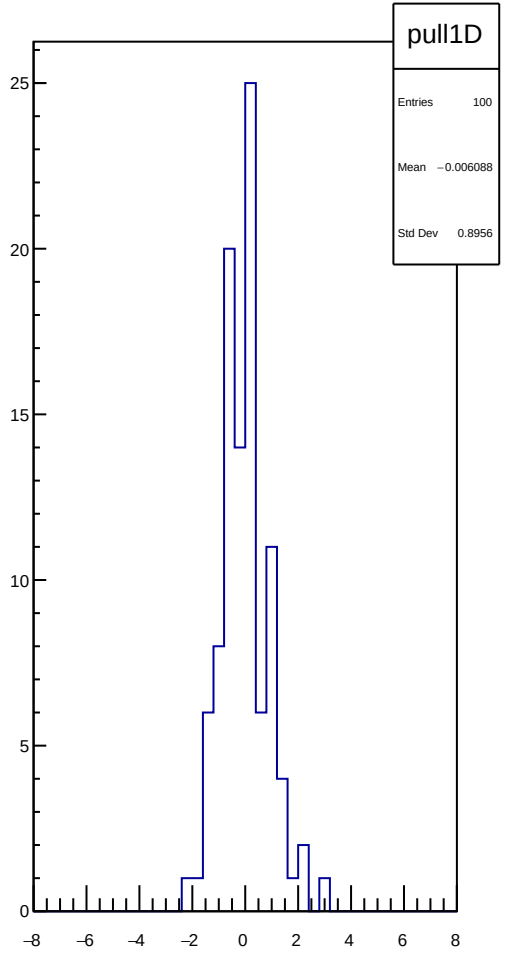
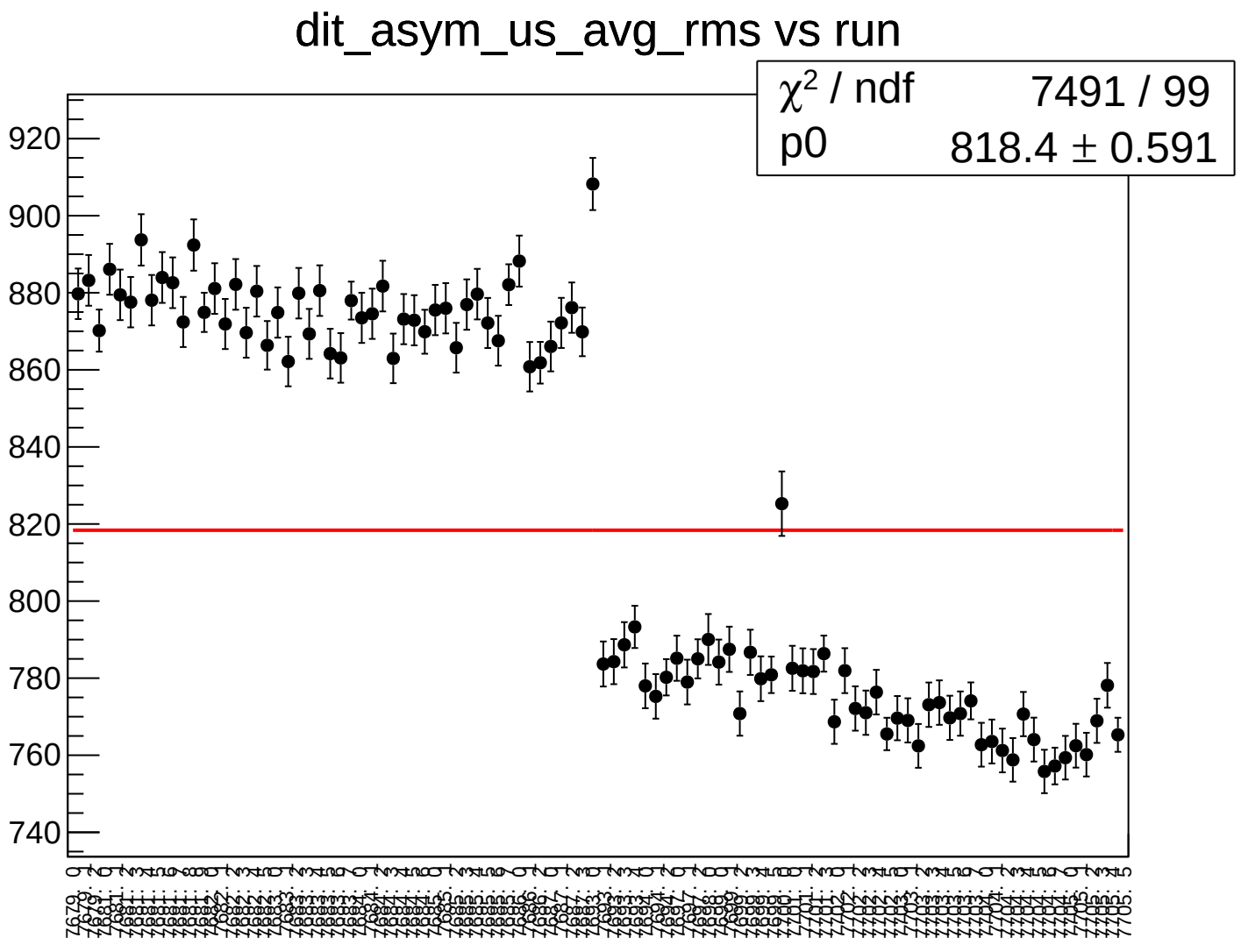
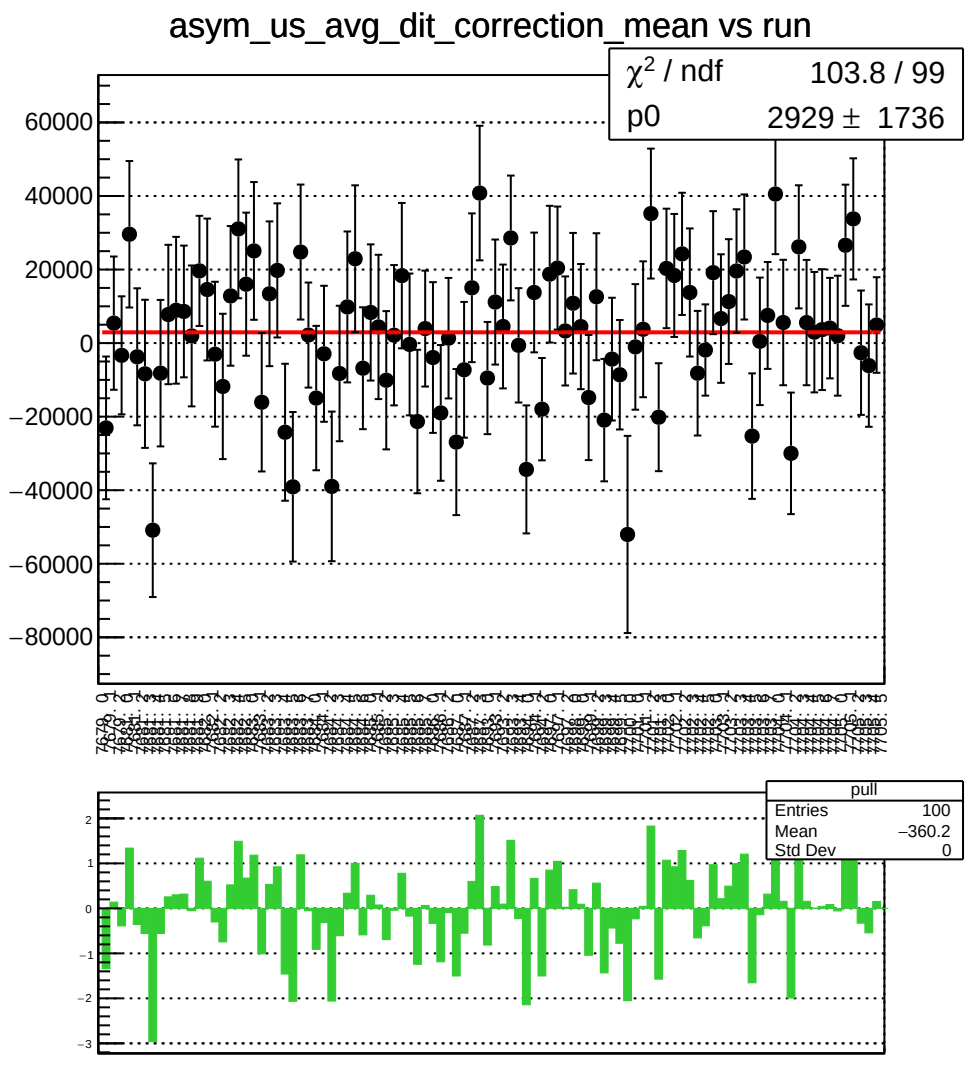
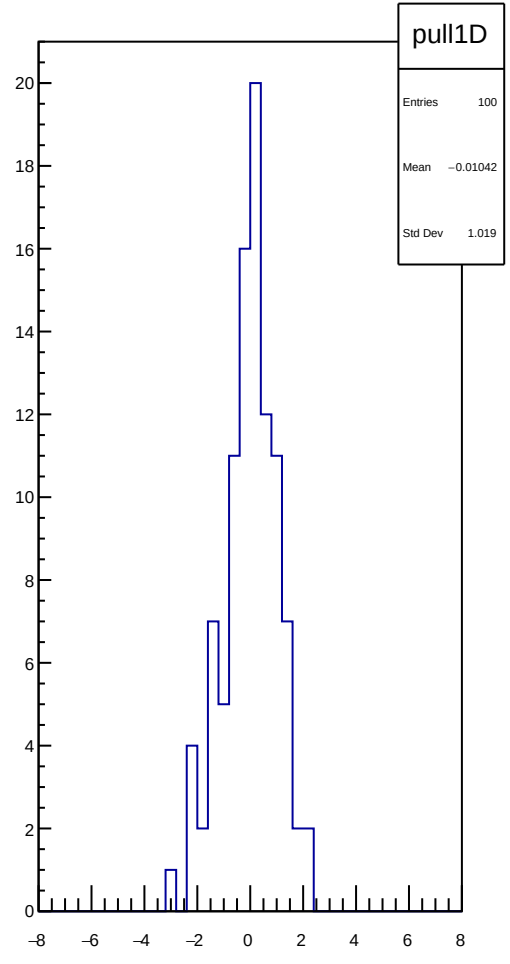

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.564e+04 / 99
p0 1695 ± 1.226
2000
1900
1800
1700
1600
1500
1400

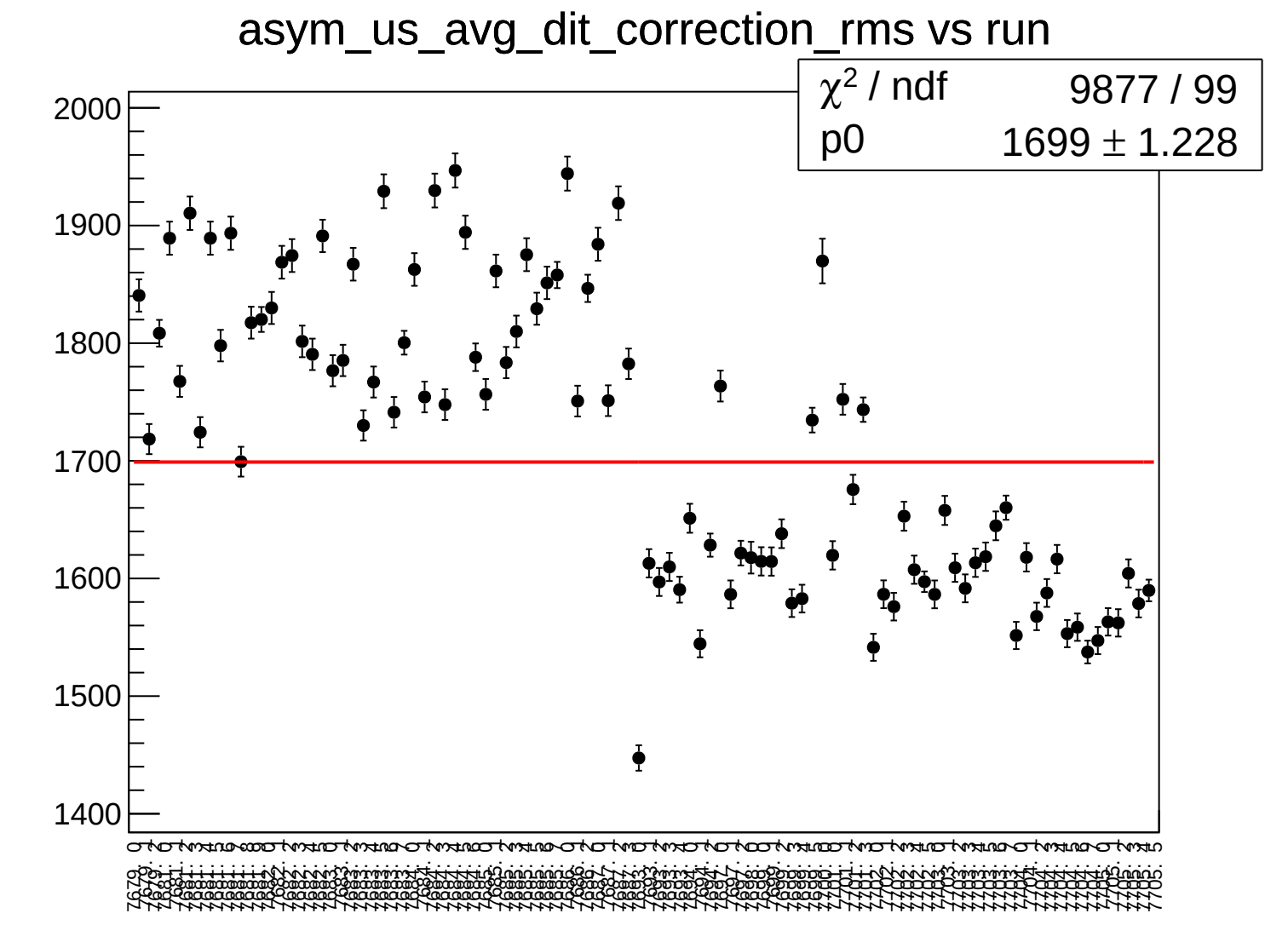

dit_asym_us_avg_mean vs run
χ² / ndf 80.22 / 99
p0 −1275 ± 835.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 100
Mean 162.1
Std Dev 0
3
2
1
0
−1
−2

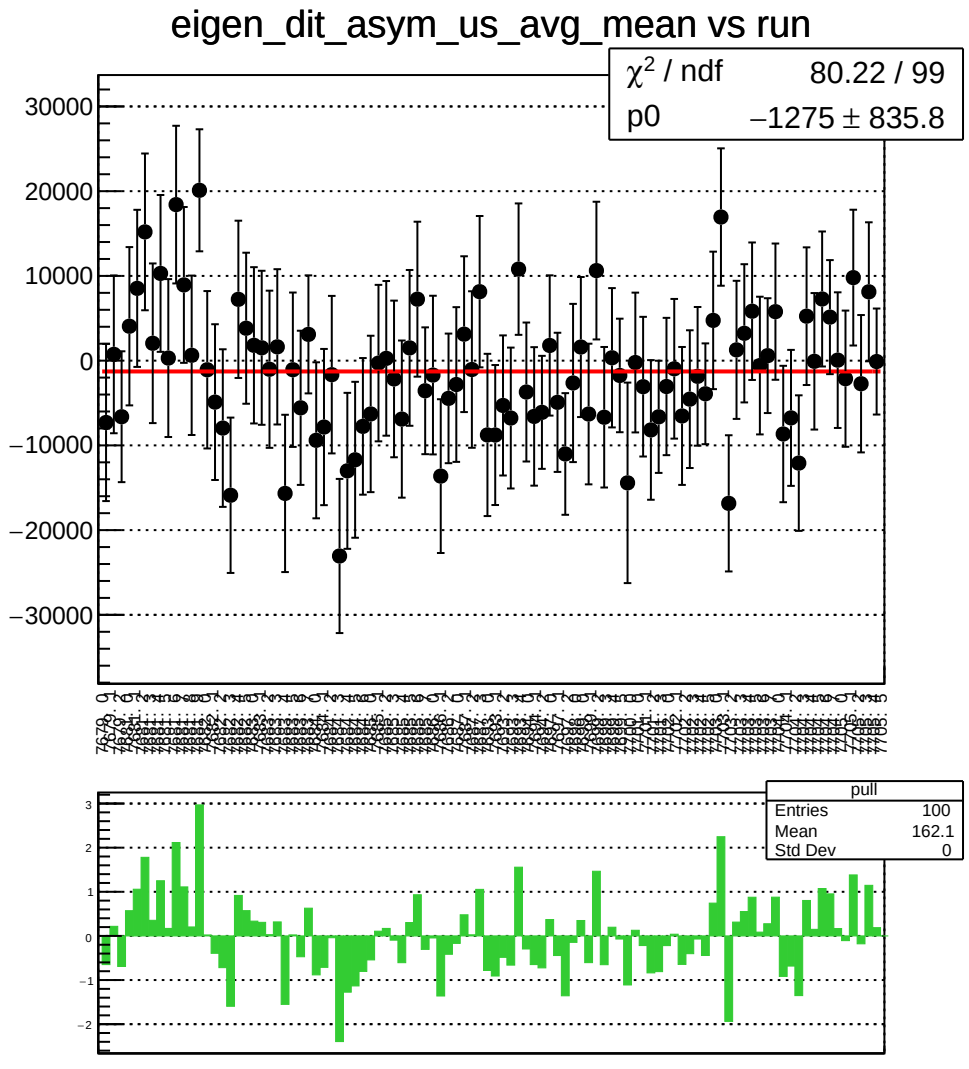

pull1D
Entries 100
Mean −0.006088
Std Dev 0.8956
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

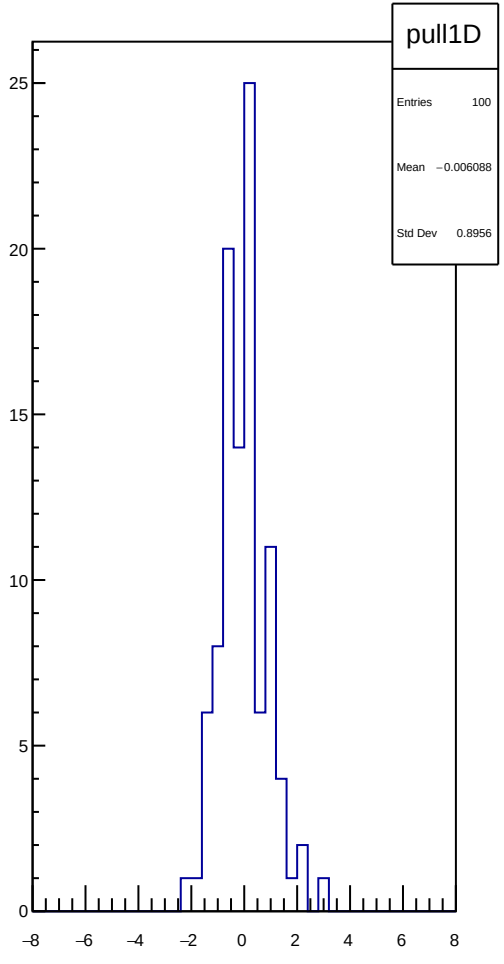

dit_asym_us_avg_rms vs run
χ² / ndf 7491 / 99
p0 818.4 ± 0.591
920
900
880
860
840
820
800
780
760
740

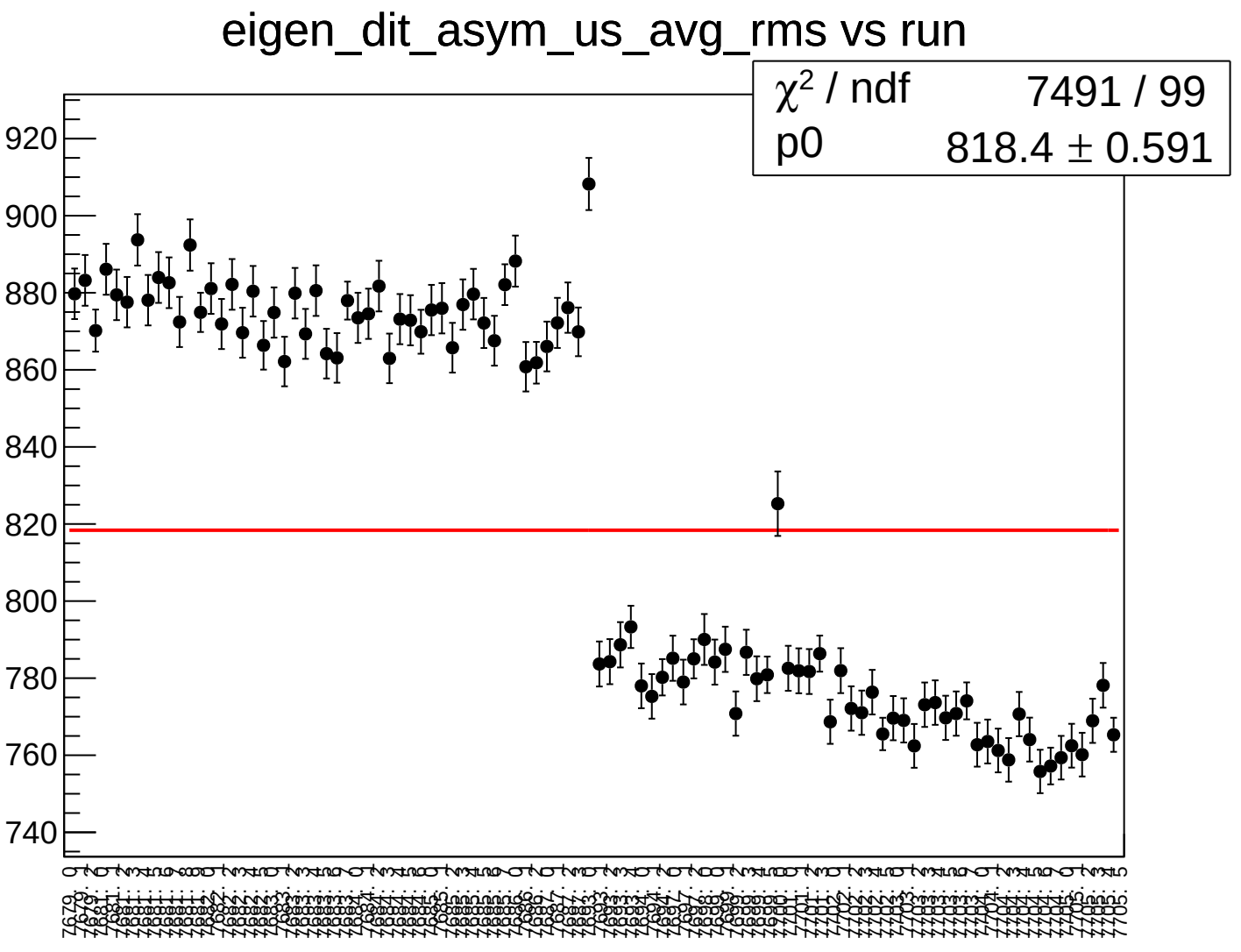

asym_us_avg_dit_correction_mean vs run
χ² / ndf 103.8 / 99
p0 2929 ± 1736
pull
Entries 100
Mean −360.2
Std Dev 0

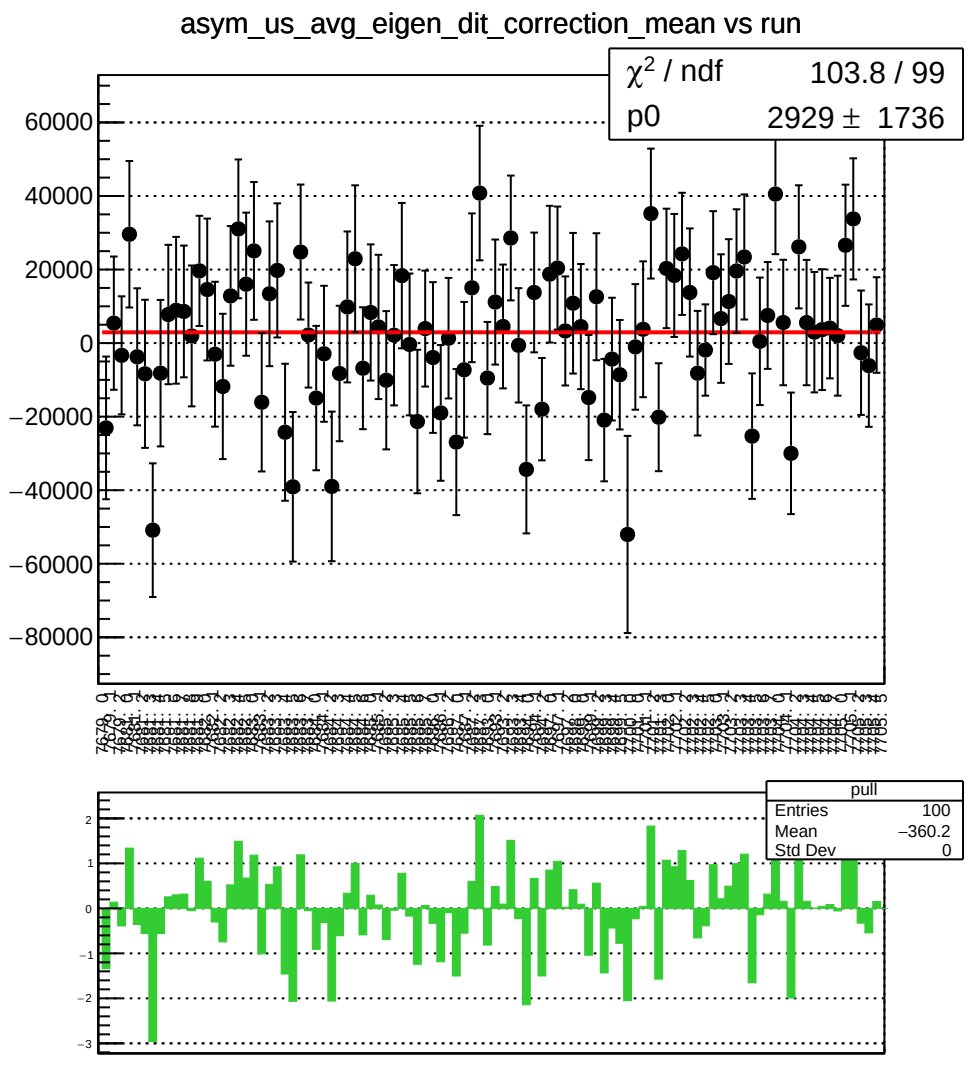

pull1D
Entries 100
Mean −0.01042
Std Dev 1.019

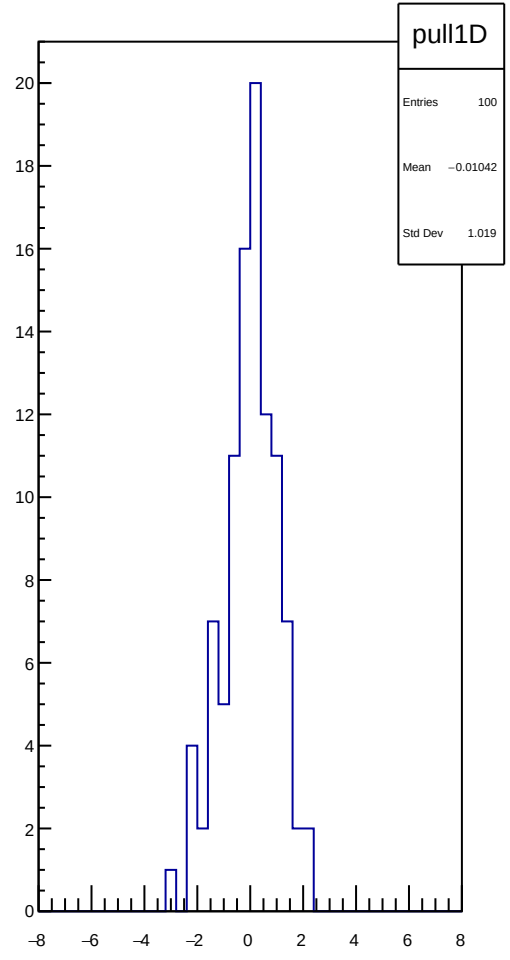

asym_us_avg_dit_correction_rms vs run
χ² / ndf 9877 / 99
p0 1699 ± 1.228
2000
1900
1800
1700
1600
1500
1400

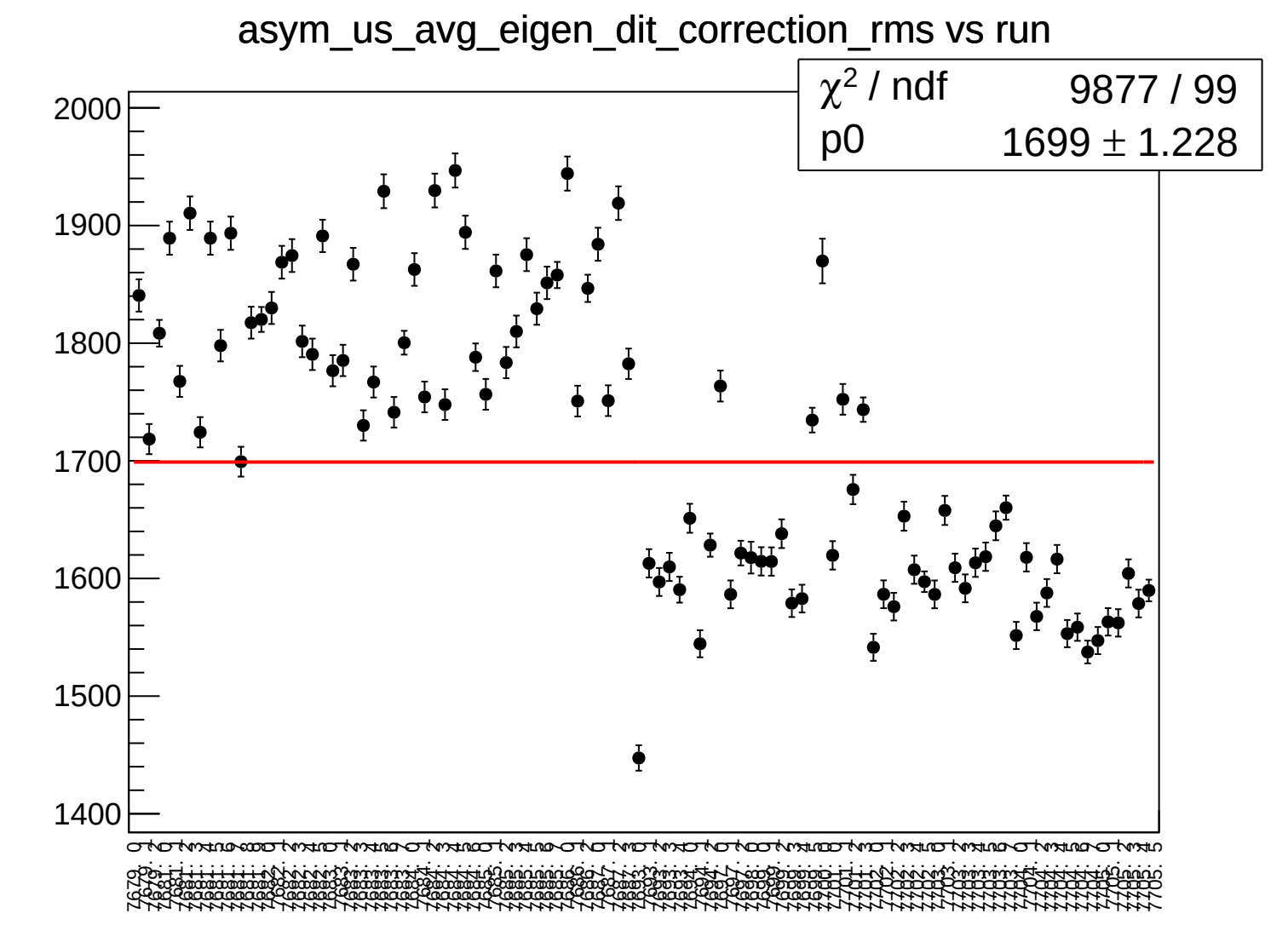

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 80.22 / 99
p0 −1275 ± 835.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 100
Mean 162.1
Std Dev 0
3
2
1
0
−1
−2

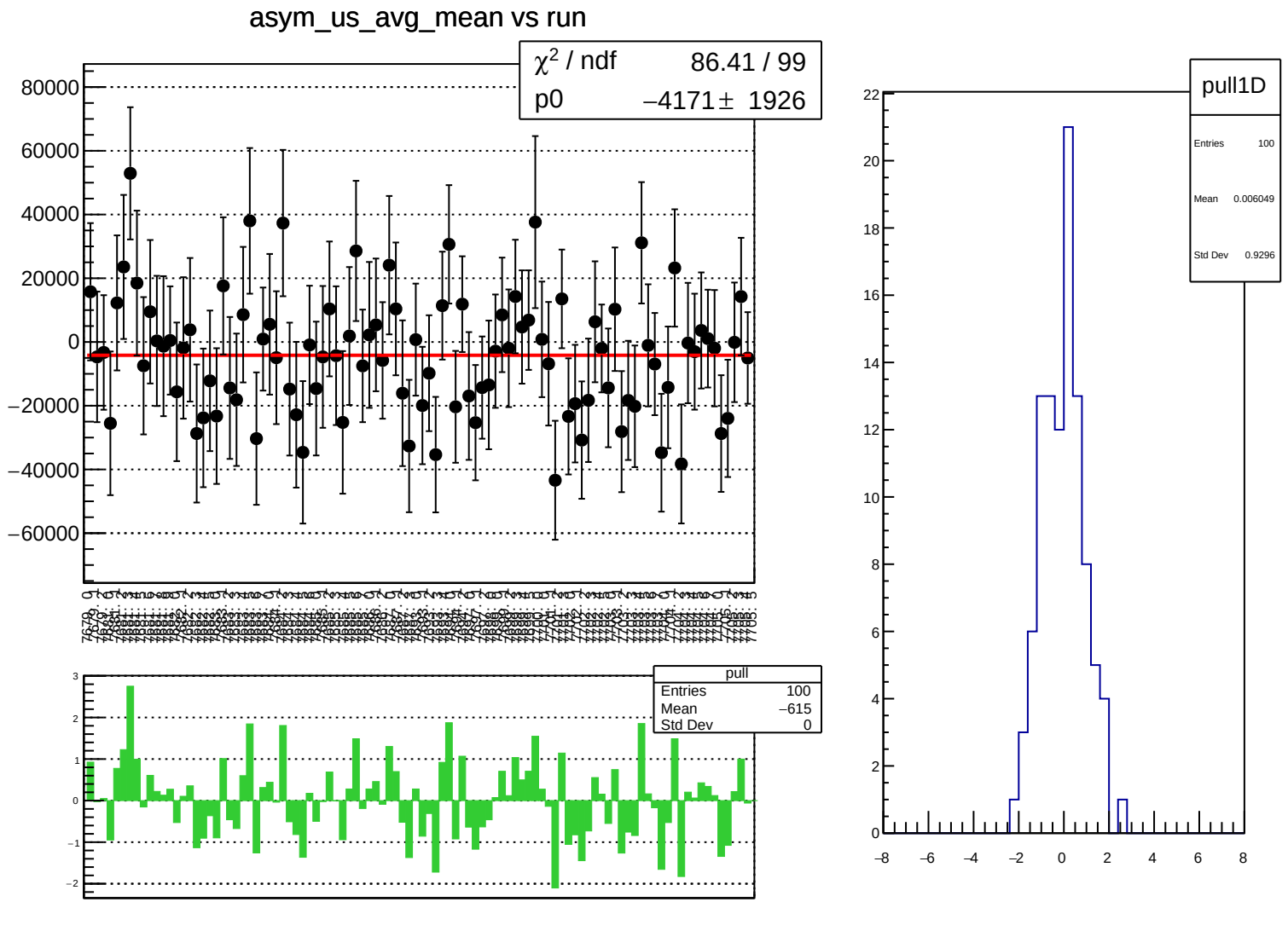

pull1D
Entries 100
Mean −0.006088
Std Dev 0.8956
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

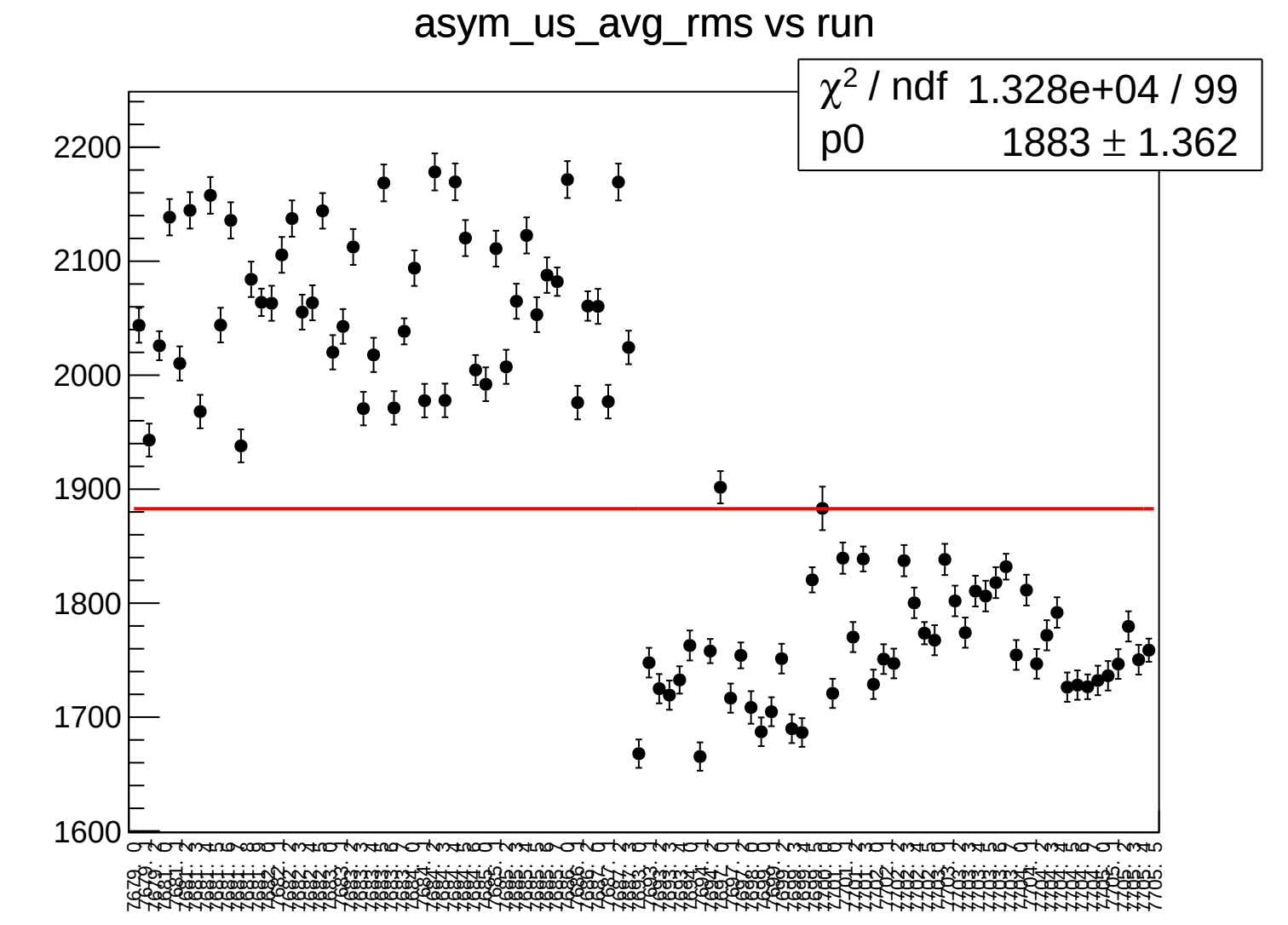

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 7491 / 99
p0 818.4 ± 0.591
920
900
880
860
840
820
800
780
760
740

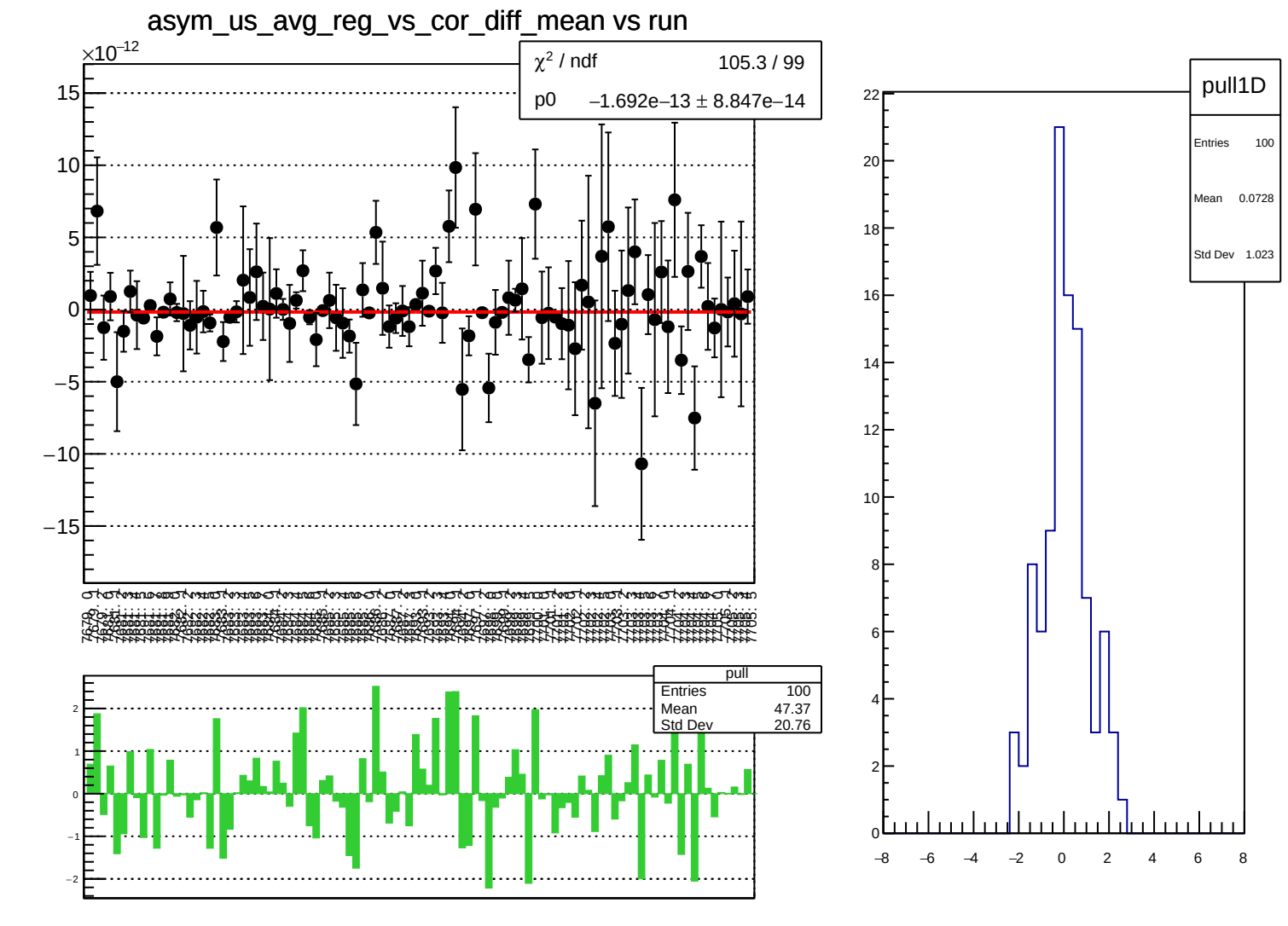

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 103.8 / 99
p0 2929 ± 1736
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −360.2
Std Dev 0
2
1
0
−1
−2
−3

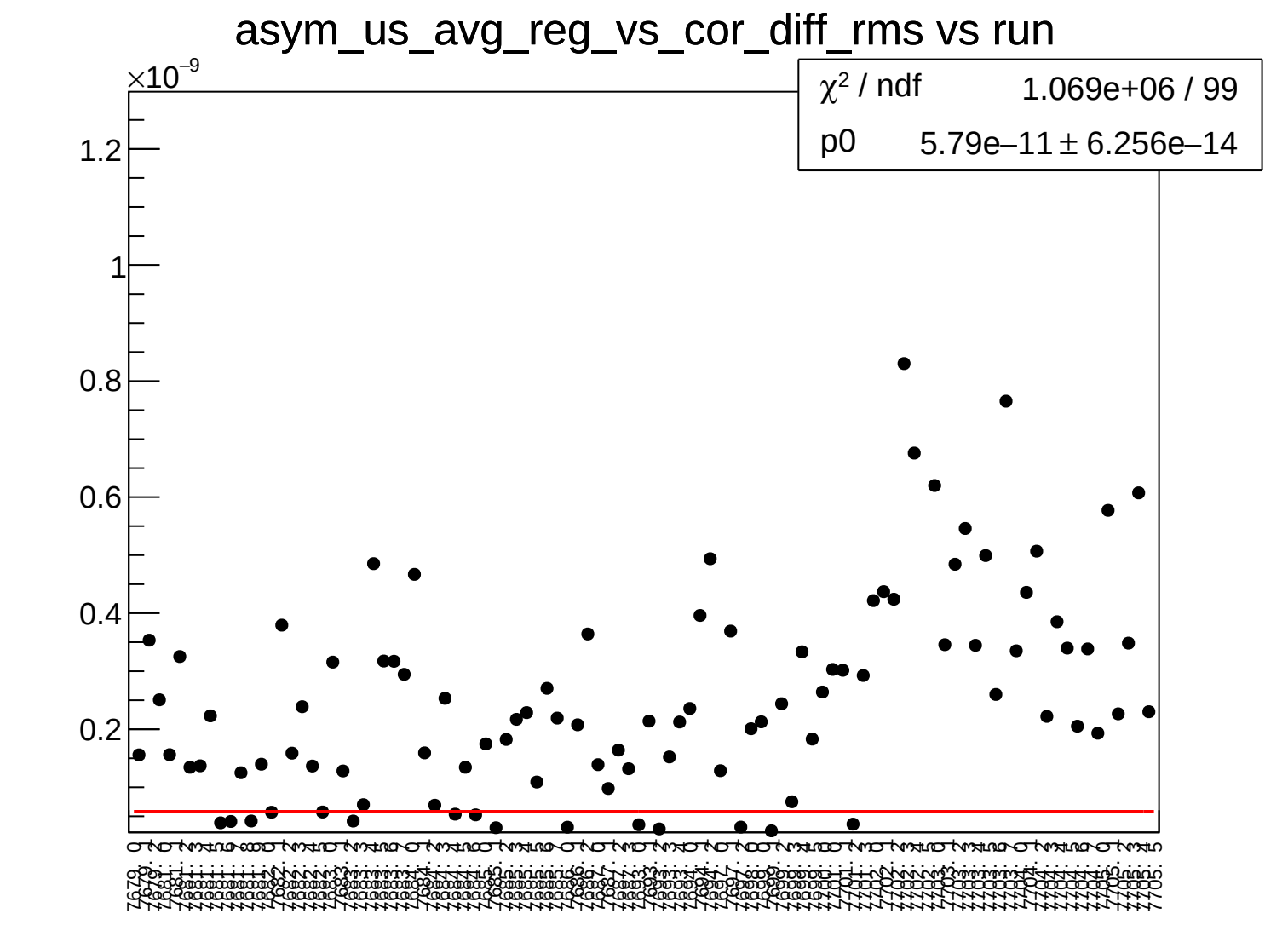

pull1D
Entries 100
Mean −0.01042
Std Dev 1.019
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

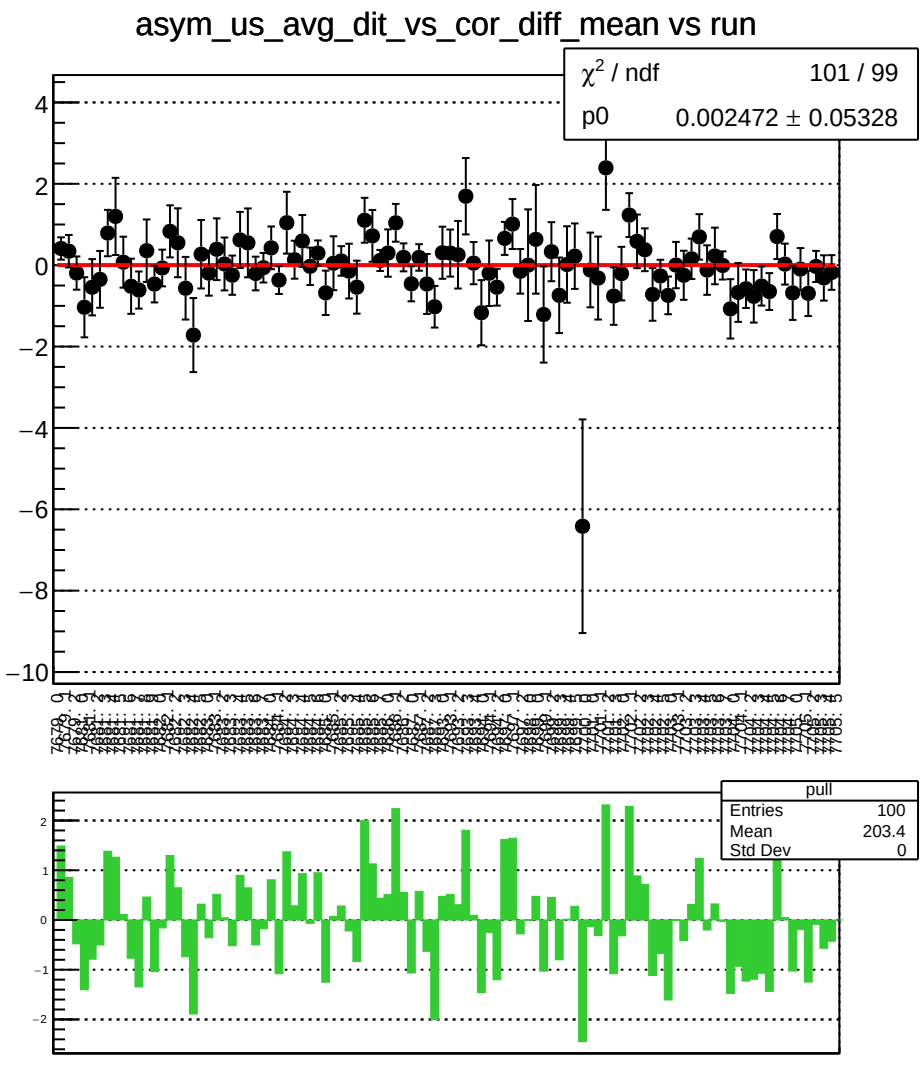

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 9877 / 99
p0 1699 ± 1.228
2000
1900
1800
1700
1600
1500
1400

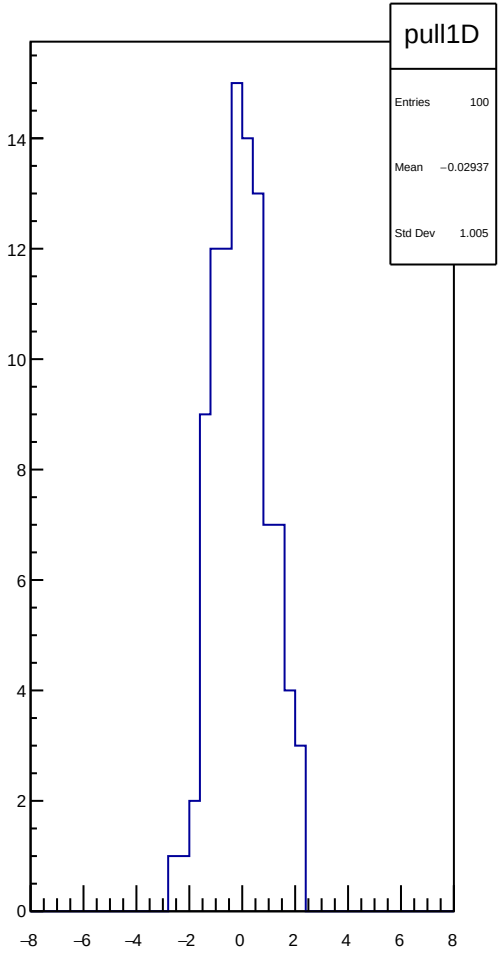

asym_us_avg_mean vs run
χ² / ndf 86.41 / 99
p0 −4171 ± 1926
pull
Entries 100
Mean −615
Std Dev 0
pull1D
Entries 100
Mean 0.006049
Std Dev 0.9296

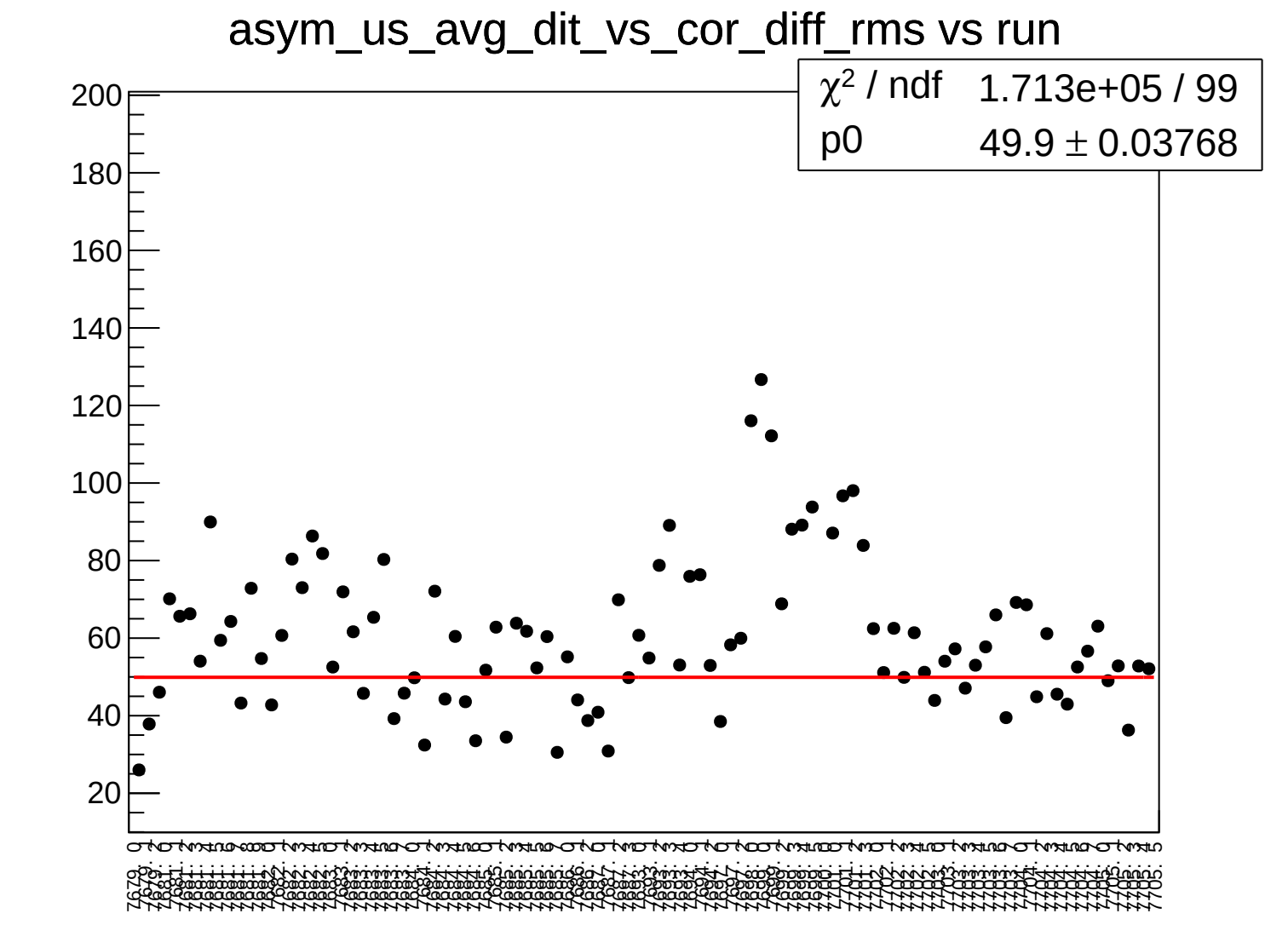

asym_us_avg_rms vs run
χ^2 / ndf 1.328e+04 / 99
p0 1883 ± 1.362
2200
2100
2000
1900
1800
1700
1600

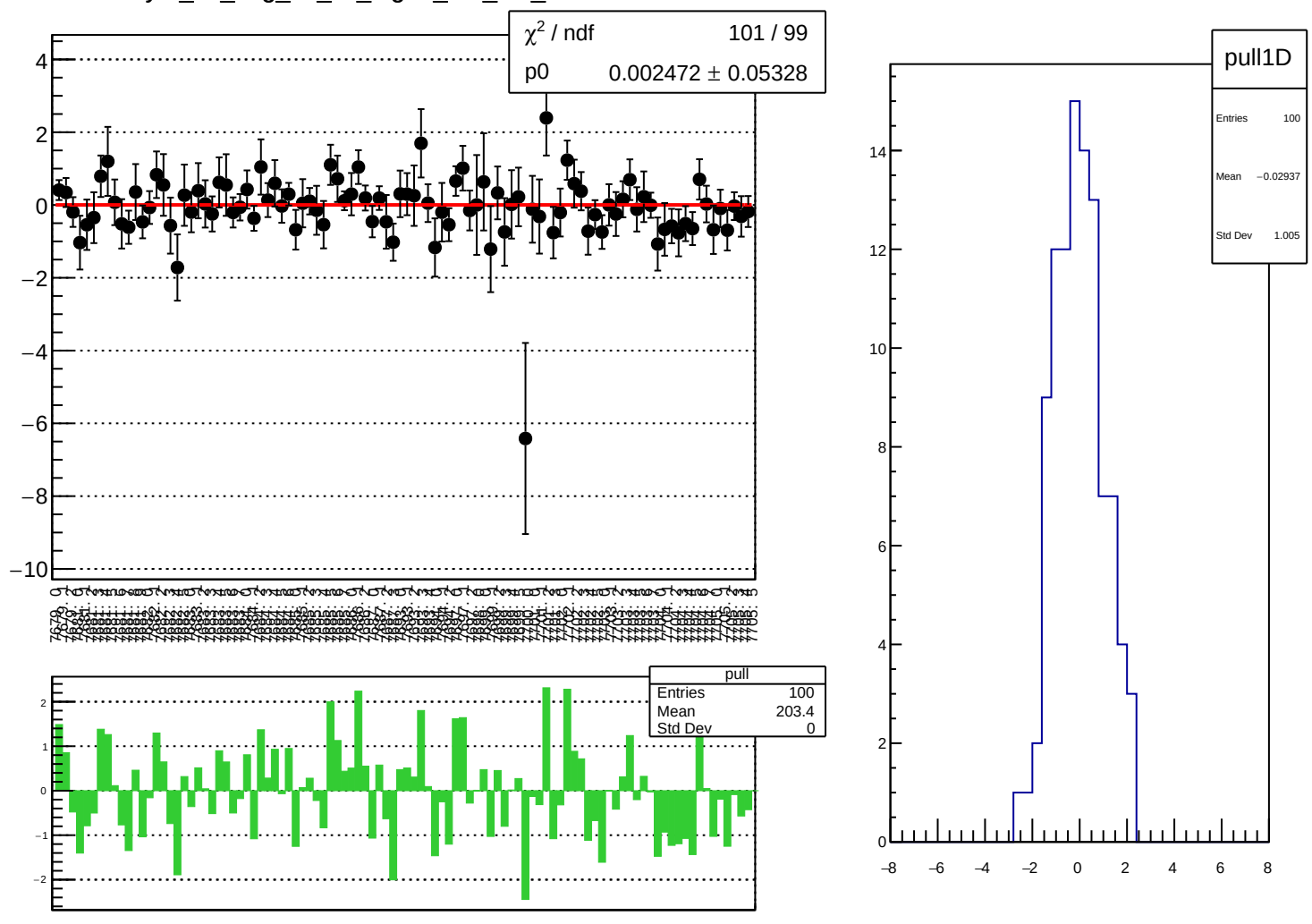

asym_us_avg_reg_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 105.3 / 99
p0 −1.692e−13 ± 8.847e−14
pull
Entries 100
Mean 47.37
Std Dev 20.76
pull1D
Entries 100
Mean 0.0728
Std Dev 1.023

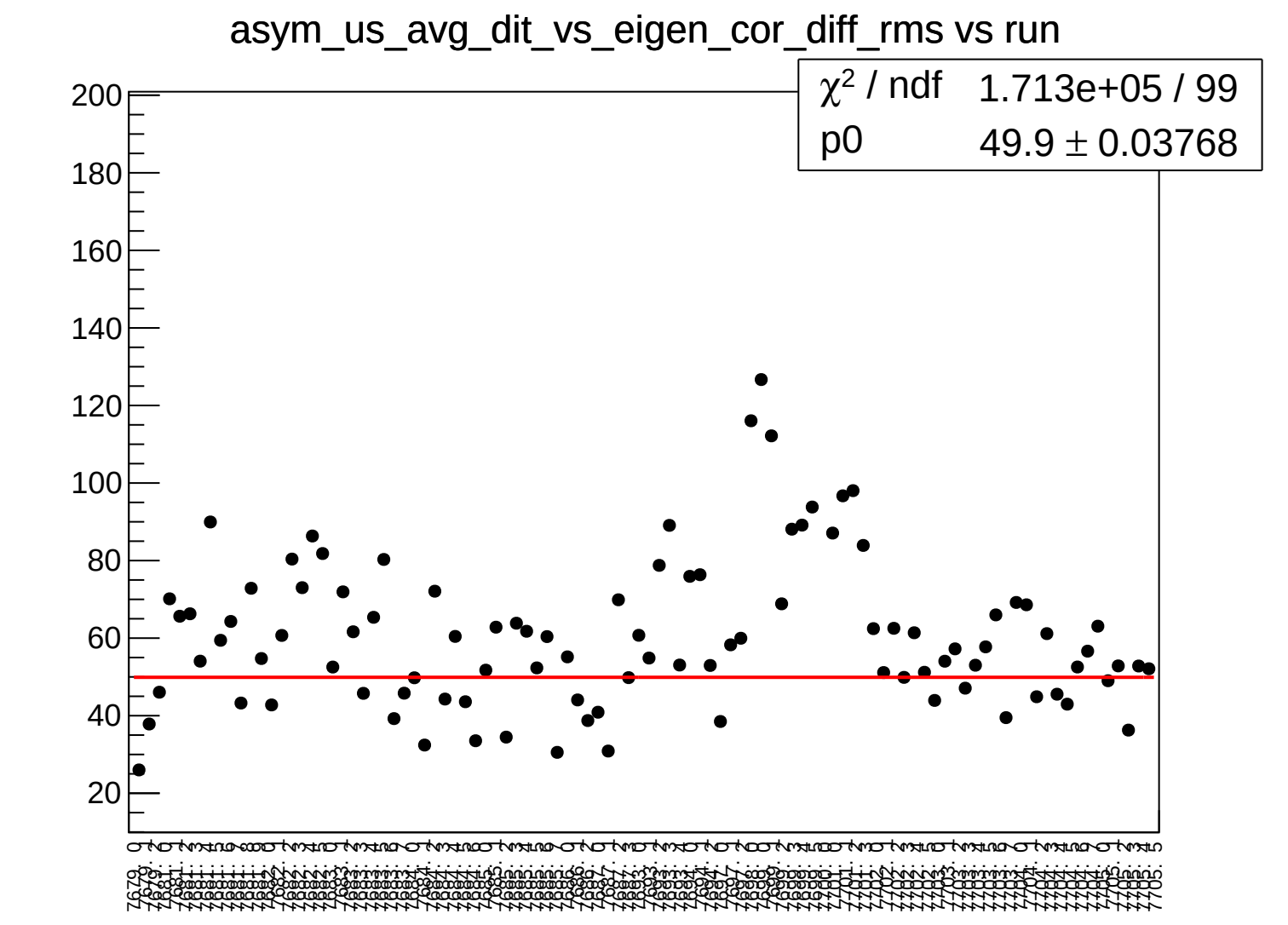

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.069e+06 / 99
p0 5.79e−11 ± 6.256e−14
1.2
1
0.8
0.6
0.4
0.2

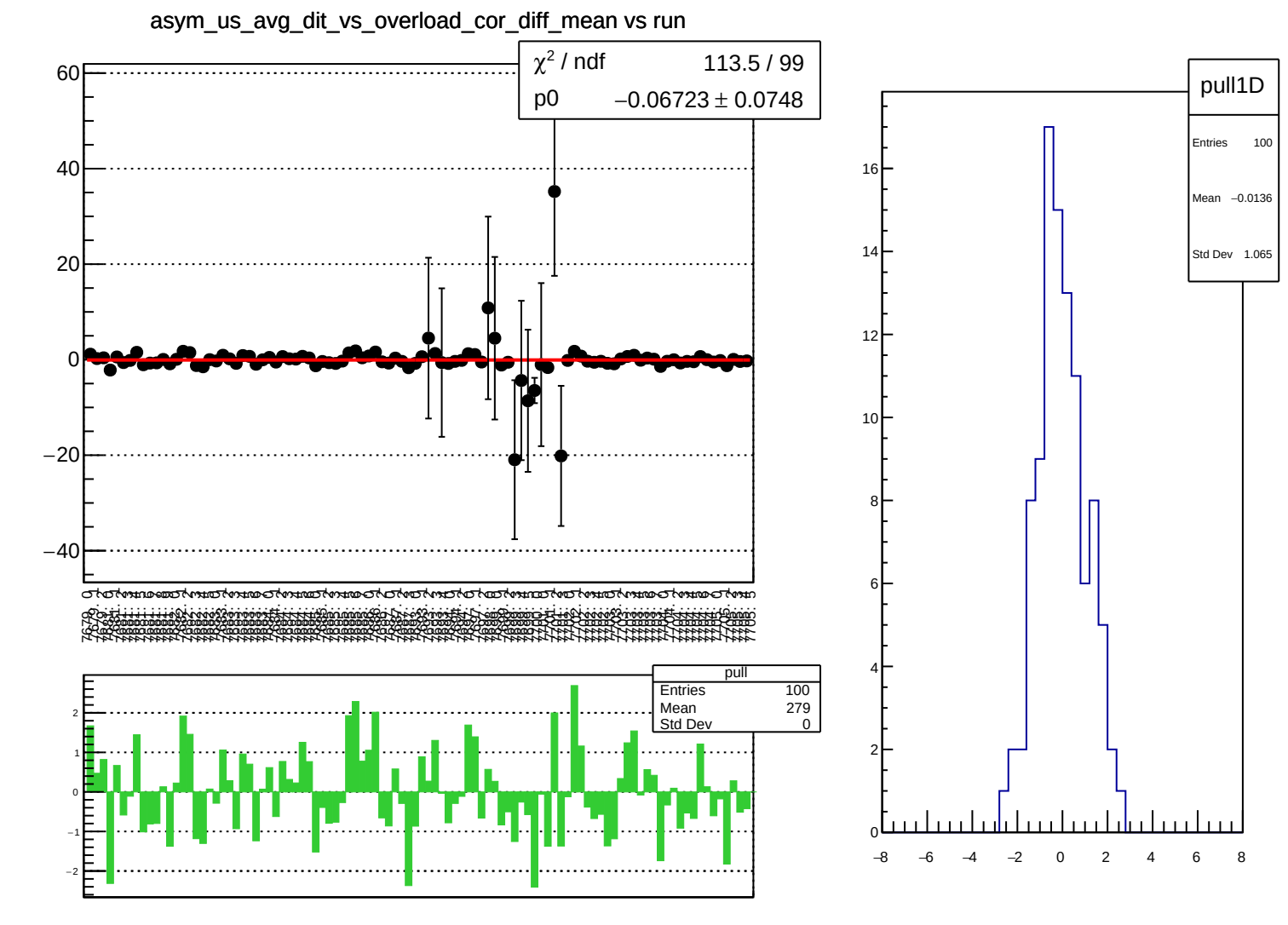

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 101 / 99
p0 0.002472 ± 0.05328
pull
Entries 100
Mean 203.4
Std Dev 0

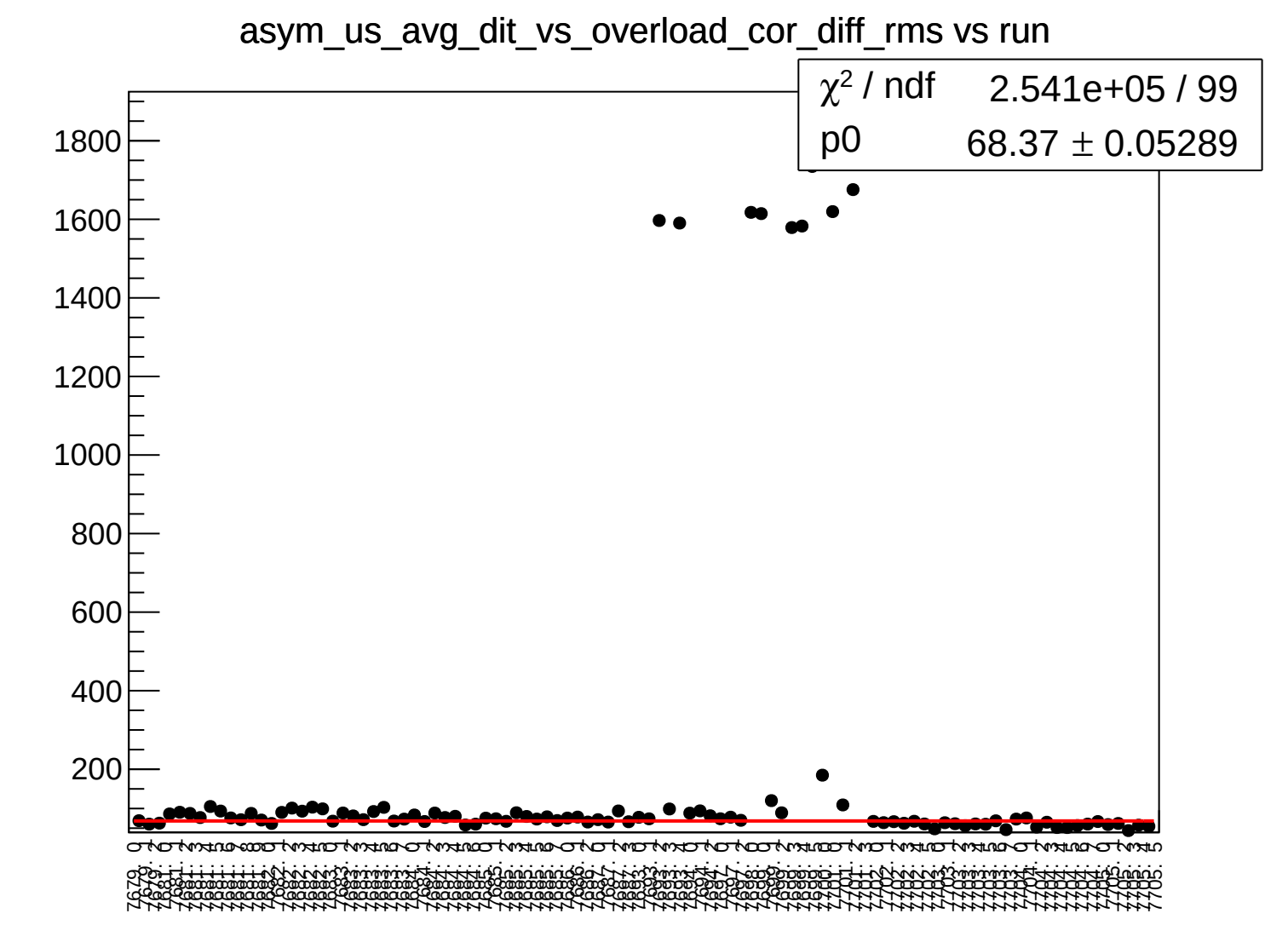

pull1D
Entries 100
Mean −0.02937
Std Dev 1.005

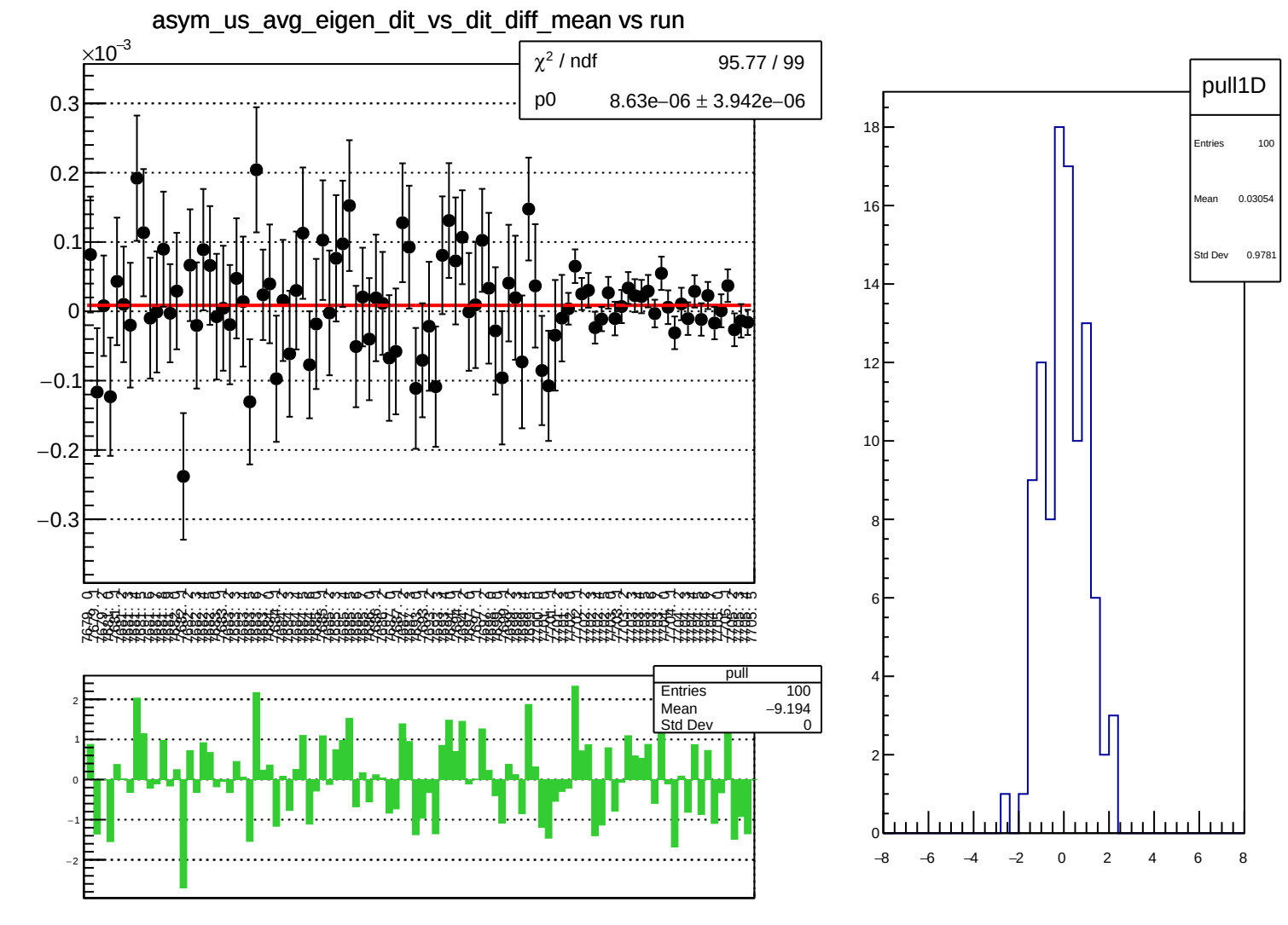

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.713e+05 / 99
p0 49.9 ± 0.03768
200
180
160
140
120
100
80
60
40
20

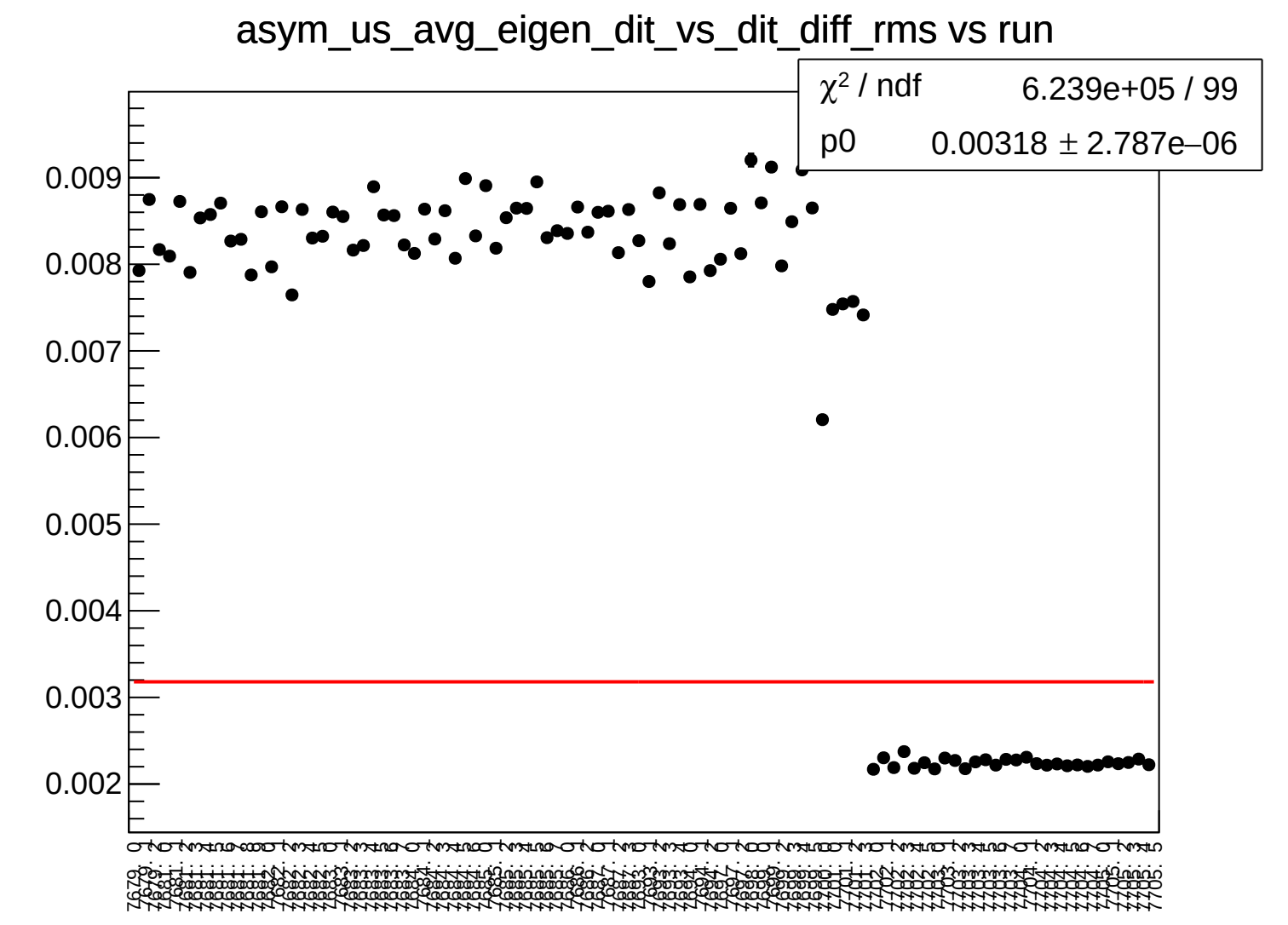

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101 / 99
p0 0.002472 ± 0.05328
pull
Entries 100
Mean 203.4
Std Dev 0
pull1D
Entries 100
Mean −0.02937
Std Dev 1.005

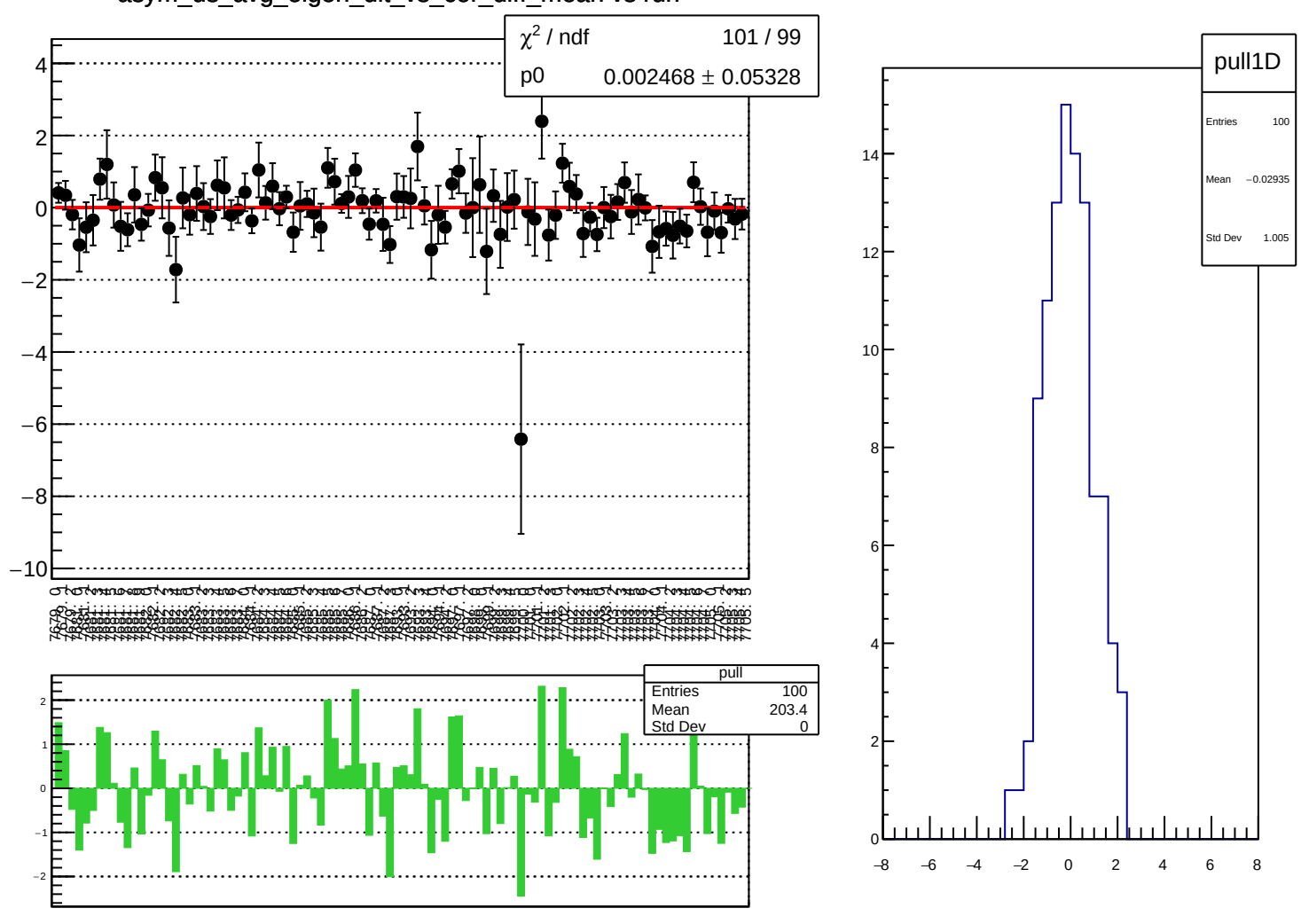

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.713e+05 / 99
p0 49.9 ± 0.03768
200
180
160
140
120
100
80
60
40
20

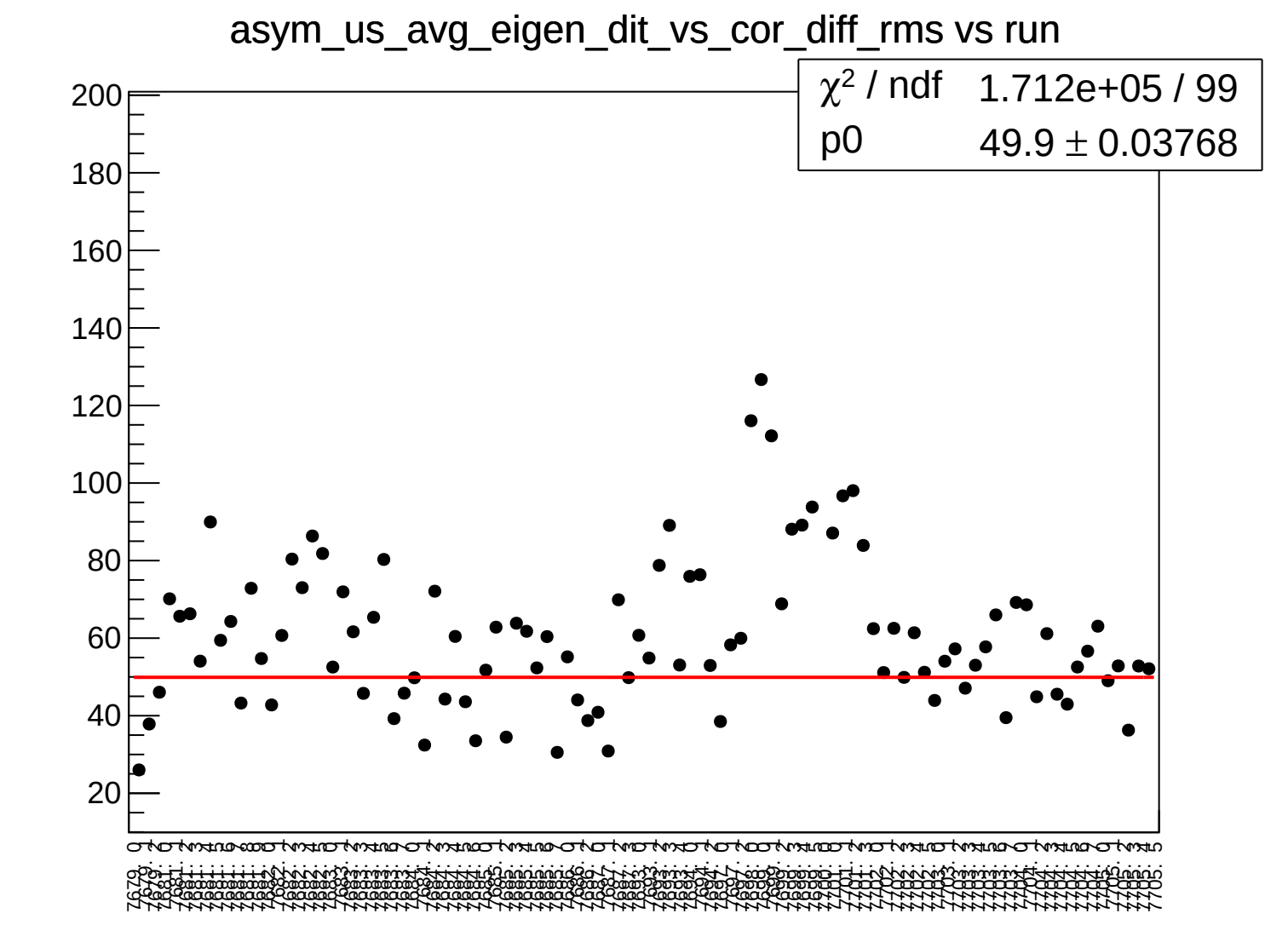

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 113.5 / 99
p0 −0.06723 ± 0.0748
60
40
20
0
−20
−40
pull
Entries 100
Mean 279
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.0136
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

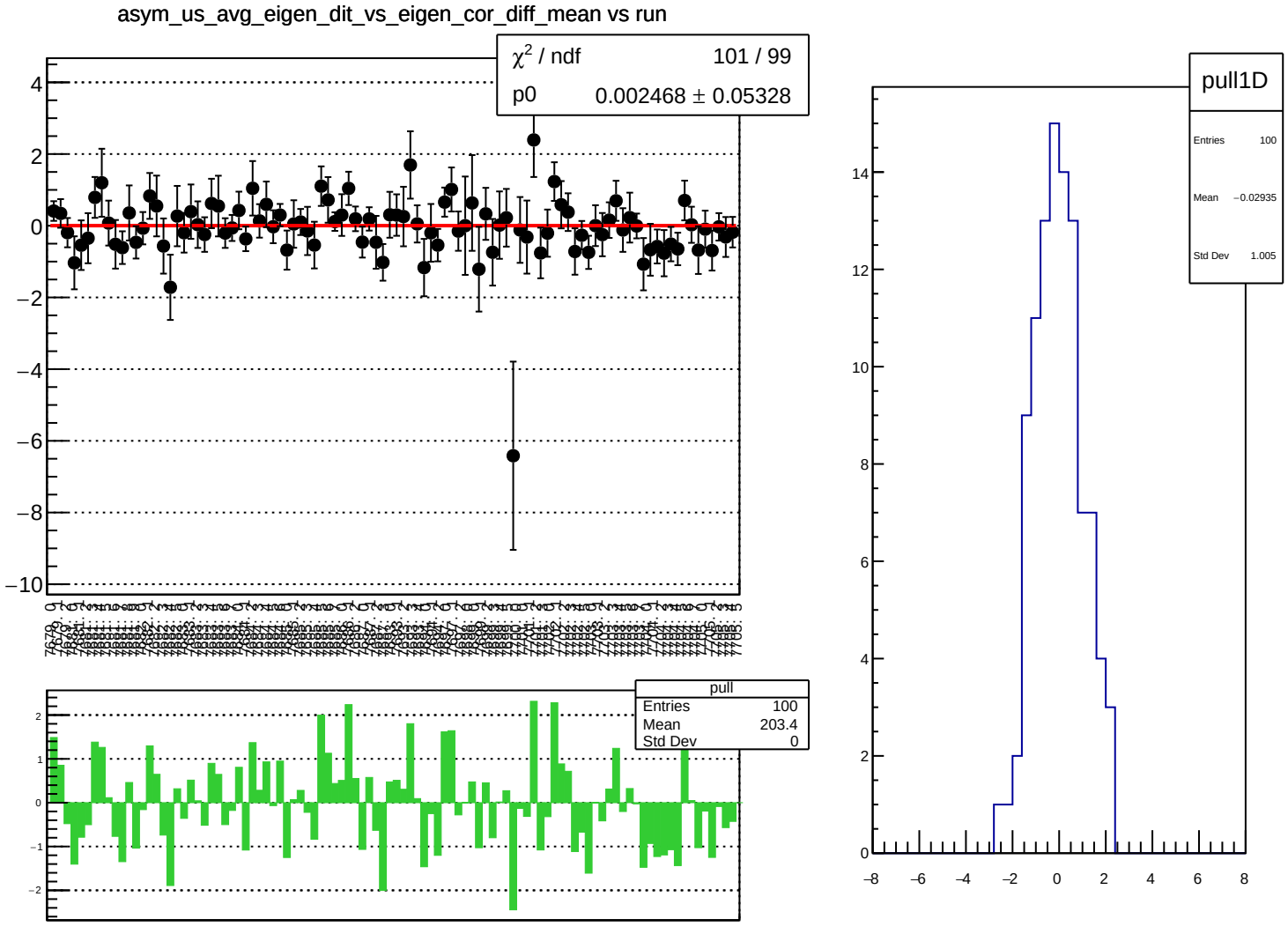

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.541e+05 / 99
p0 68.37 ± 0.05289
1800
1600
1400
1200
1000
800
600
400
200

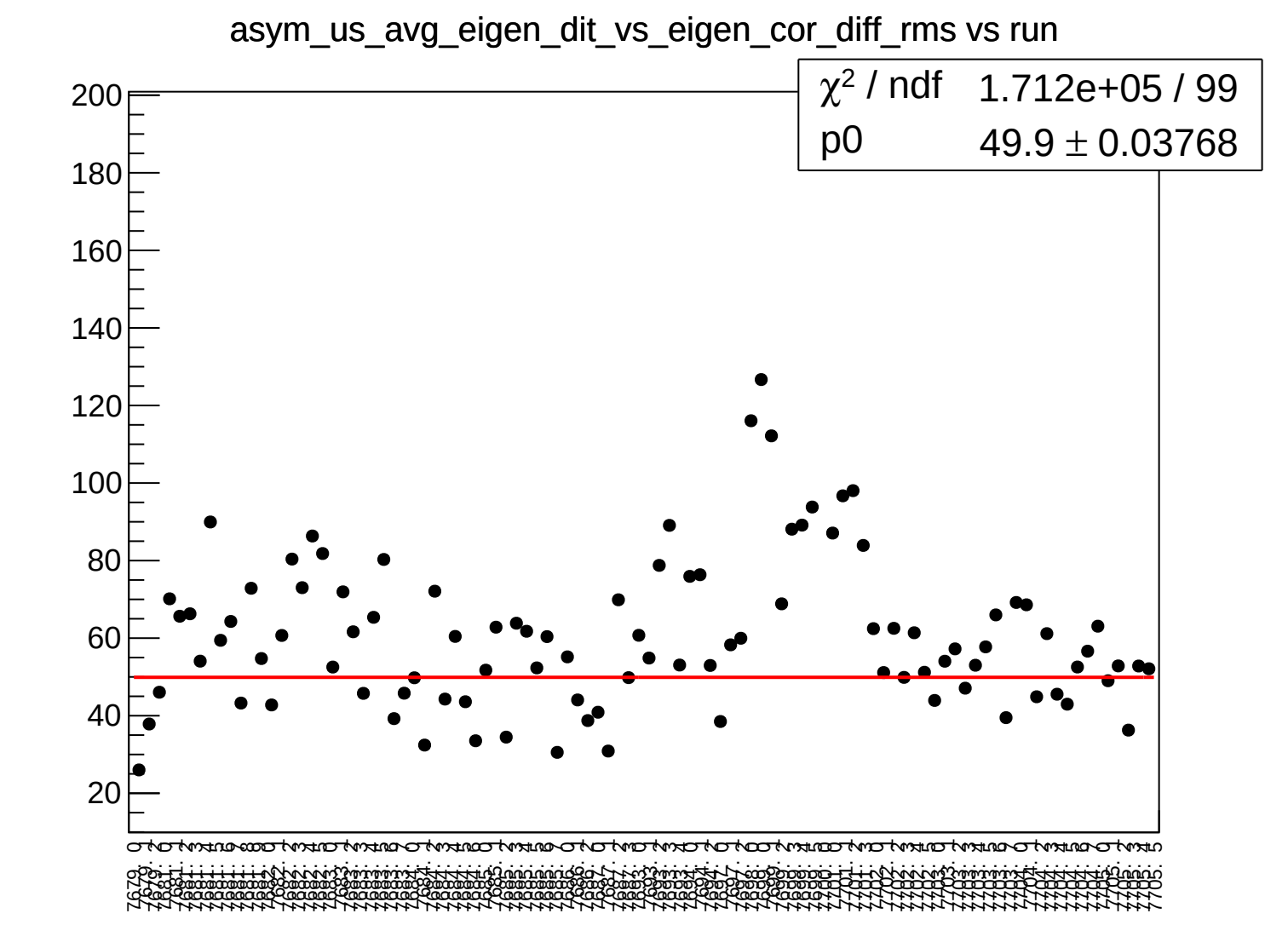

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.77 / 99
p0 8.63e−06 ± 3.942e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 100
Mean −9.194
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.03054
Std Dev 0.9781
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

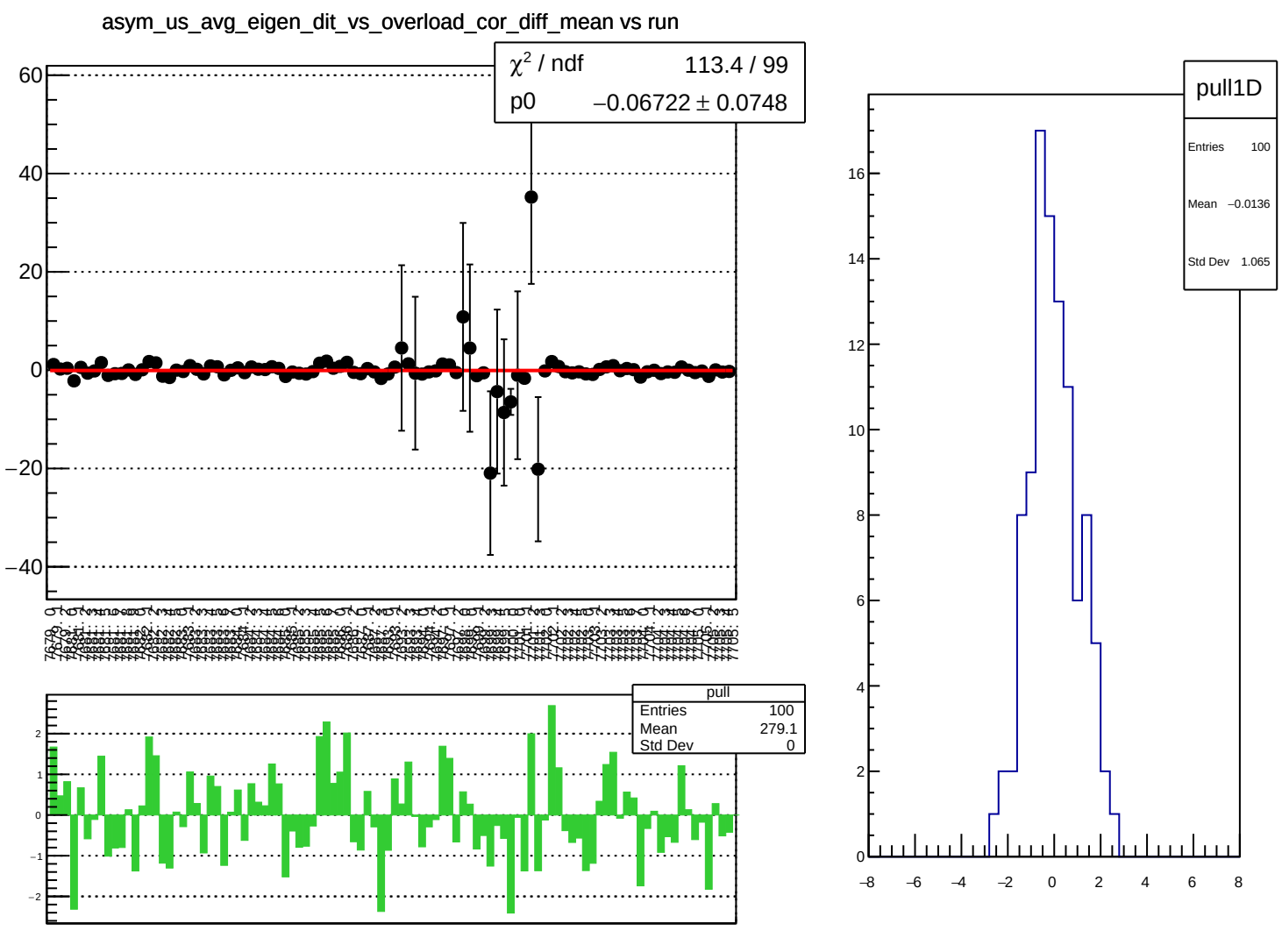

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.239e+05 / 99
p0 0.00318 ± 2.787e–06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

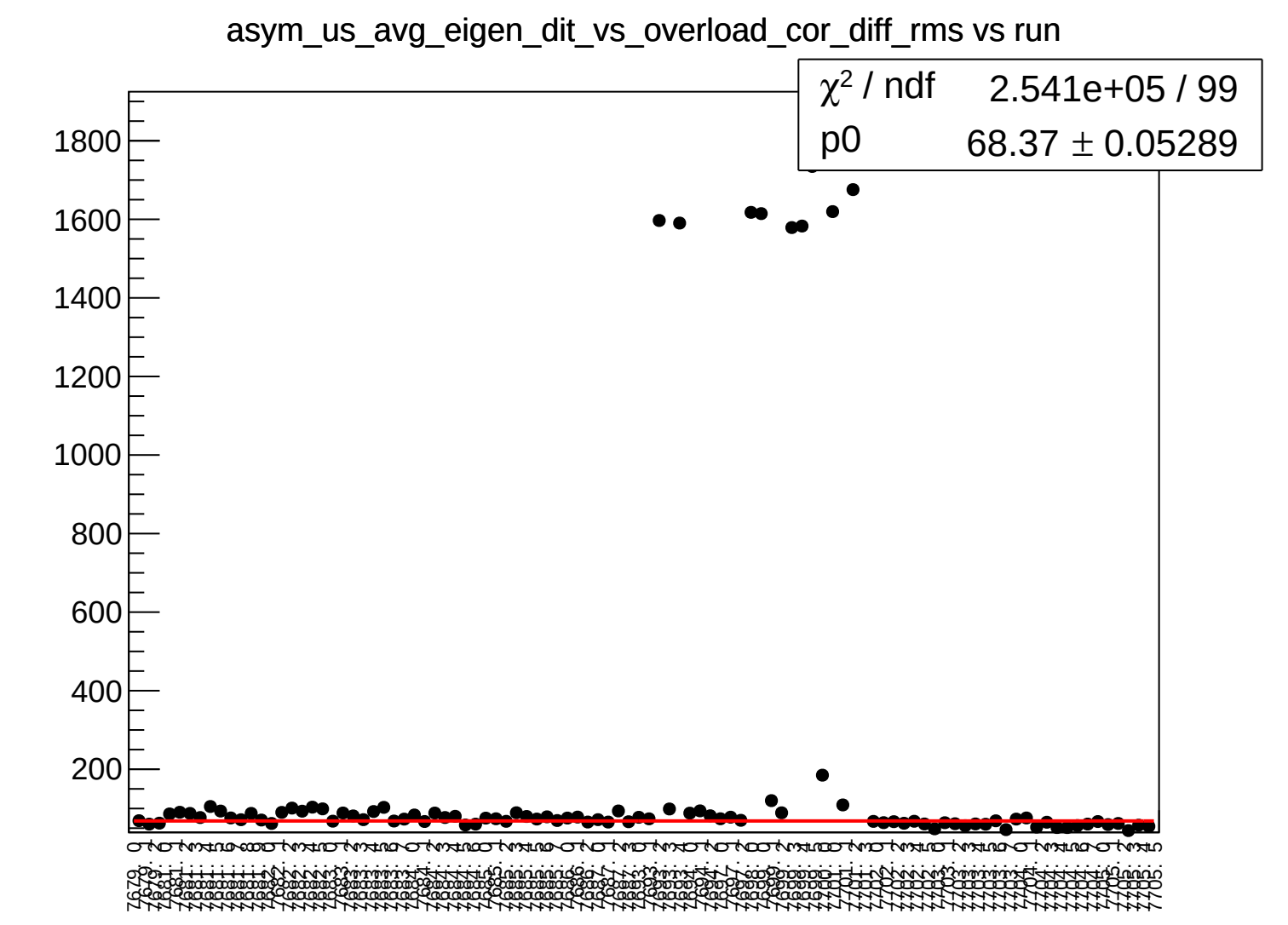

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101 / 99
p0 0.002468 ± 0.05328
pull
Entries 100
Mean 203.4
Std Dev 0
pull1D
Entries 100
Mean −0.02935
Std Dev 1.005

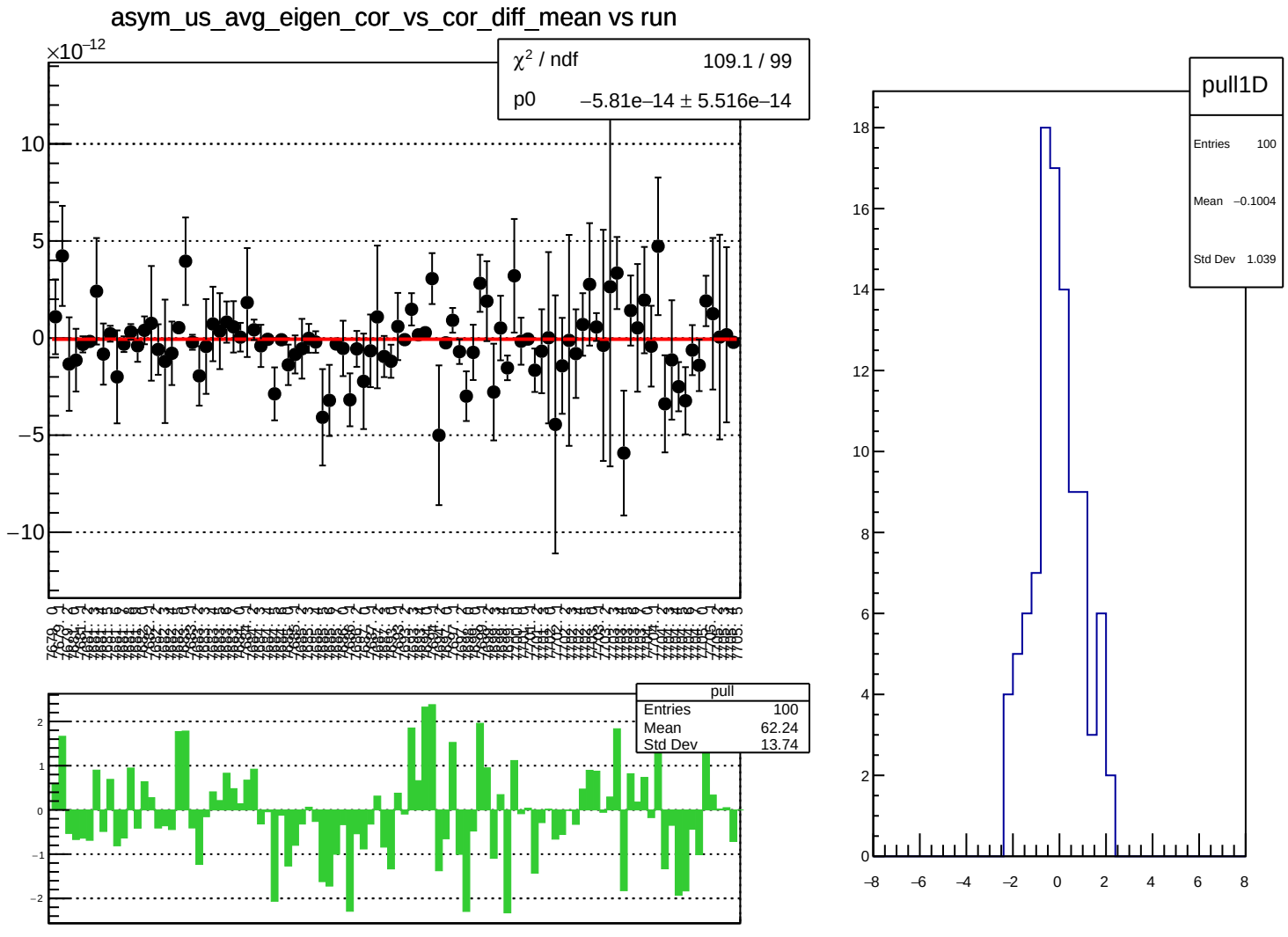

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.712e+05 / 99
p0 49.9 ± 0.03768
200
180
160
140
120
100
80
60
40
20

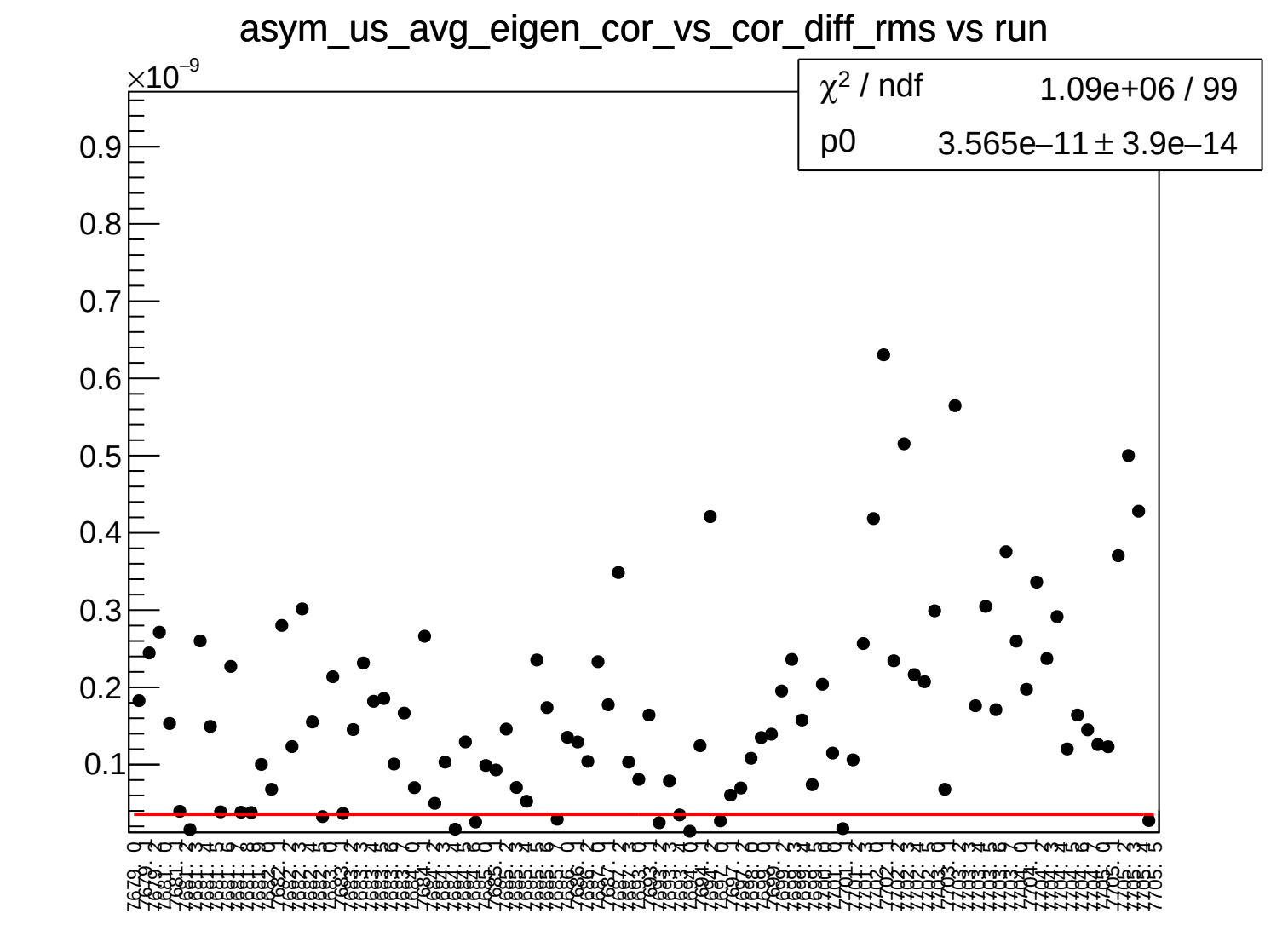

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101 / 99
p0 0.002468 ± 0.05328
pull
Entries 100
Mean 203.4
Std Dev 0
pull1D
Entries 100
Mean −0.02935
Std Dev 1.005

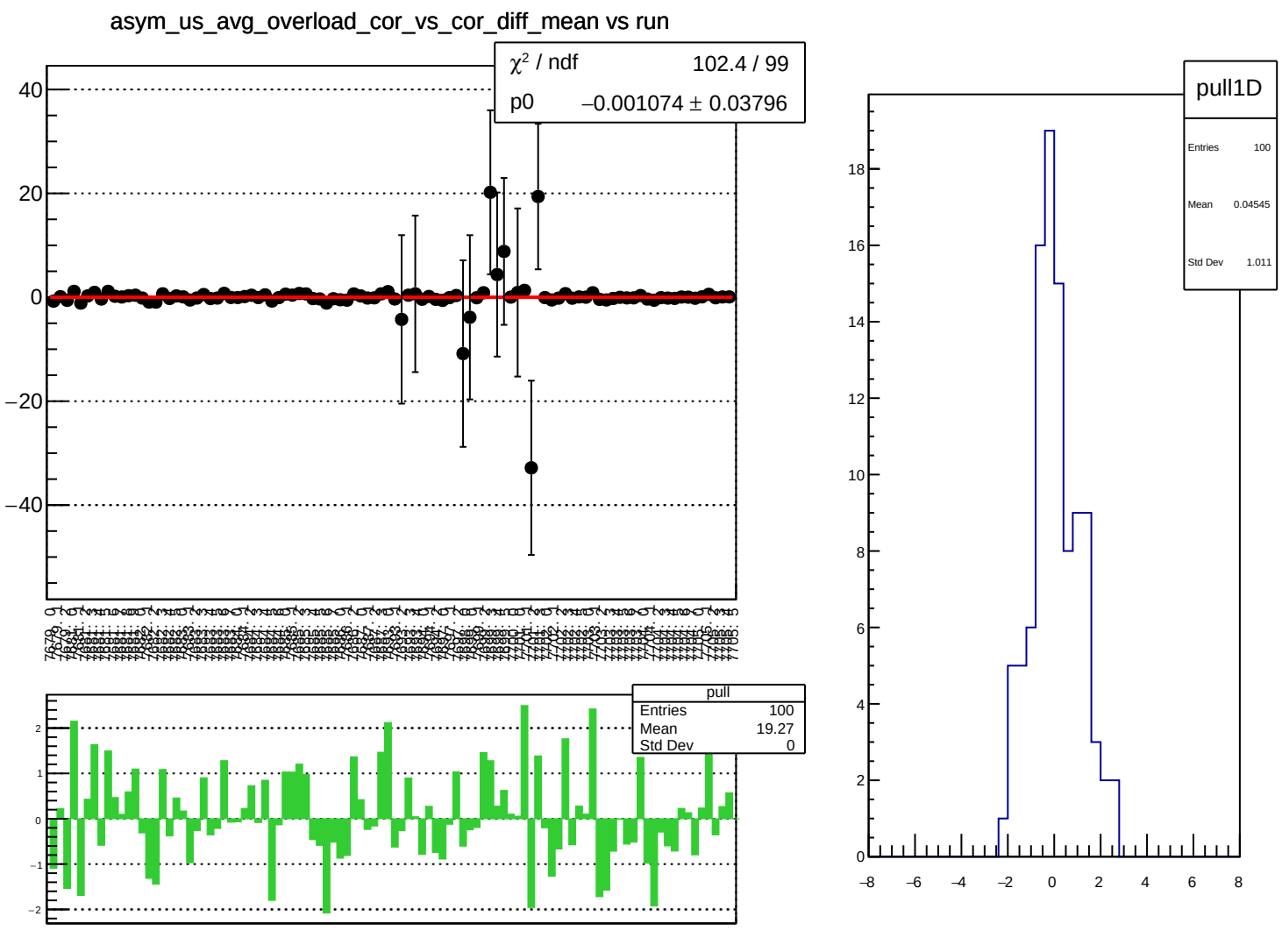

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.712e+05 / 99
p0 49.9 ± 0.03768
200
180
160
140
120
100
80
60
40
20

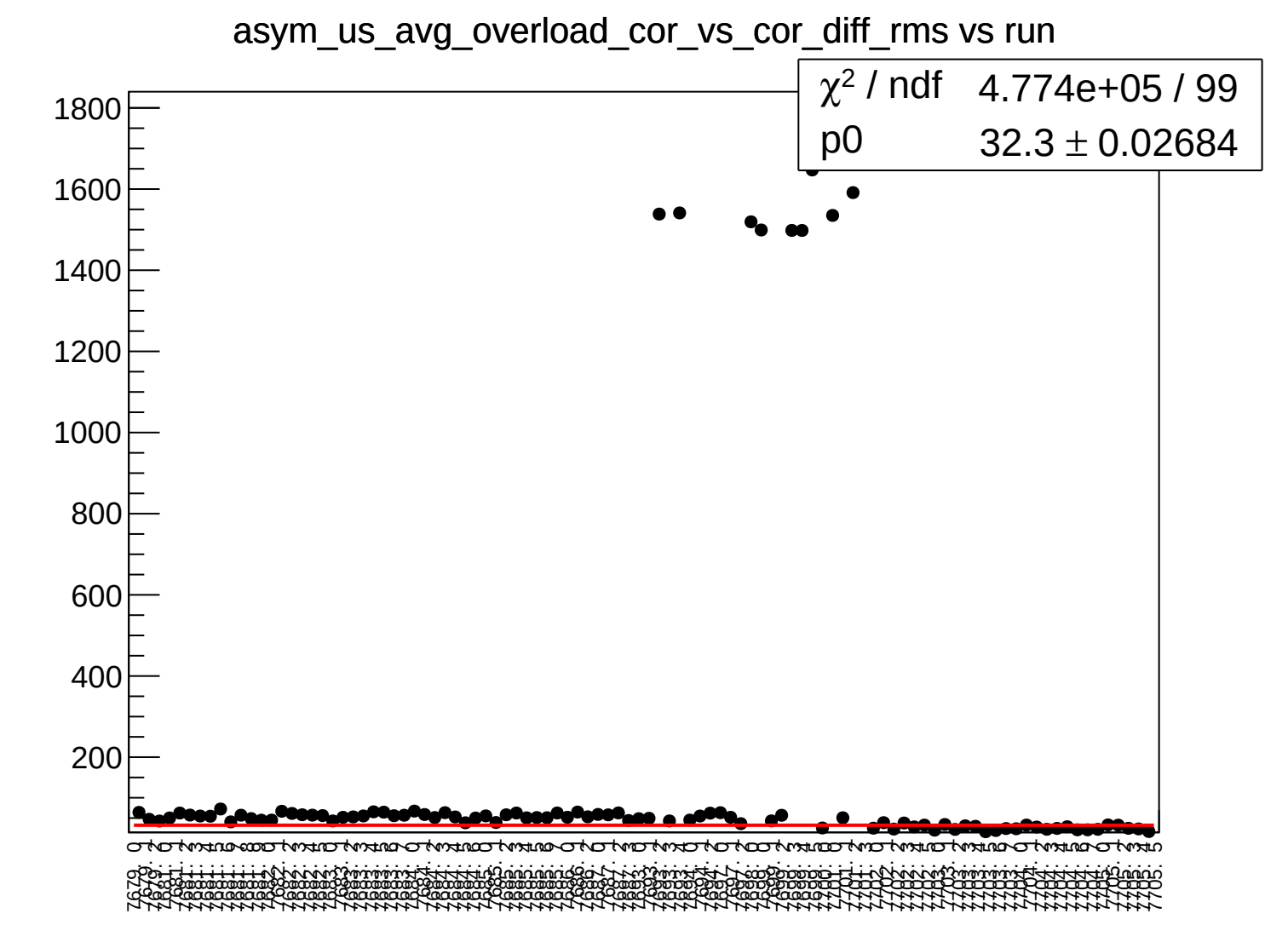

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 113.4 / 99
p0 −0.06722 ± 0.0748
60
40
20
0
−20
−40
pull
Entries 100
Mean 279.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.0136
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

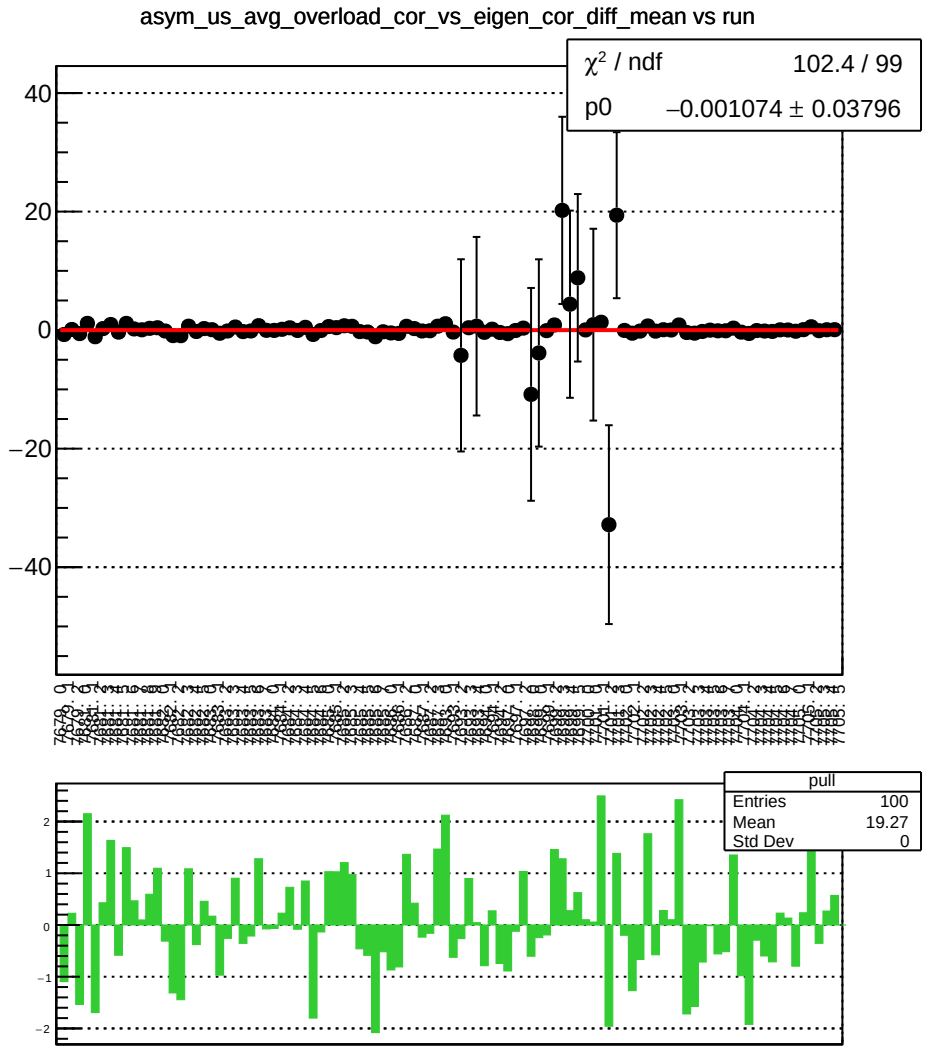

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.541e+05 / 99
p0 68.37 ± 0.05289
1800
1600
1400
1200
1000
800
600
400
200

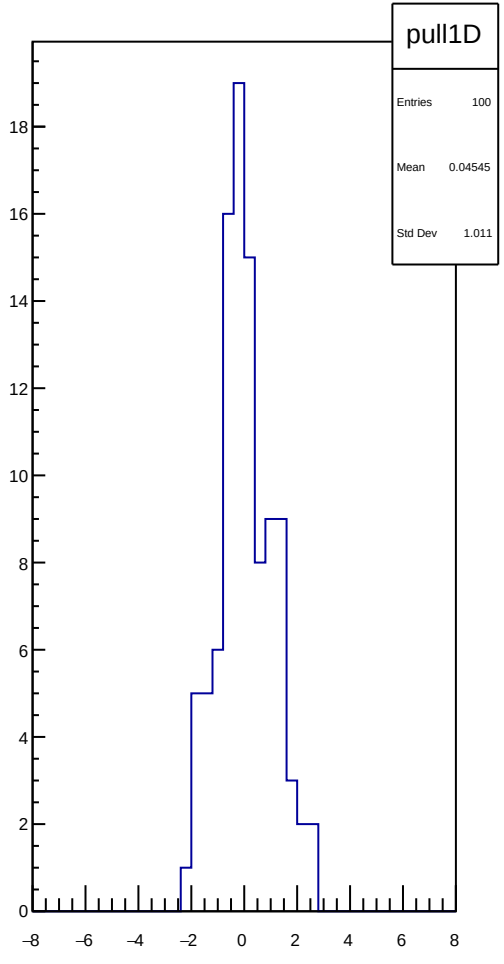

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 109.1 / 99
p0 −5.81e−14 ± 5.516e−14
10
5
0
−5
−10
pull
Entries 100
Mean 62.24
Std Dev 13.74
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.1004
Std Dev 1.039
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

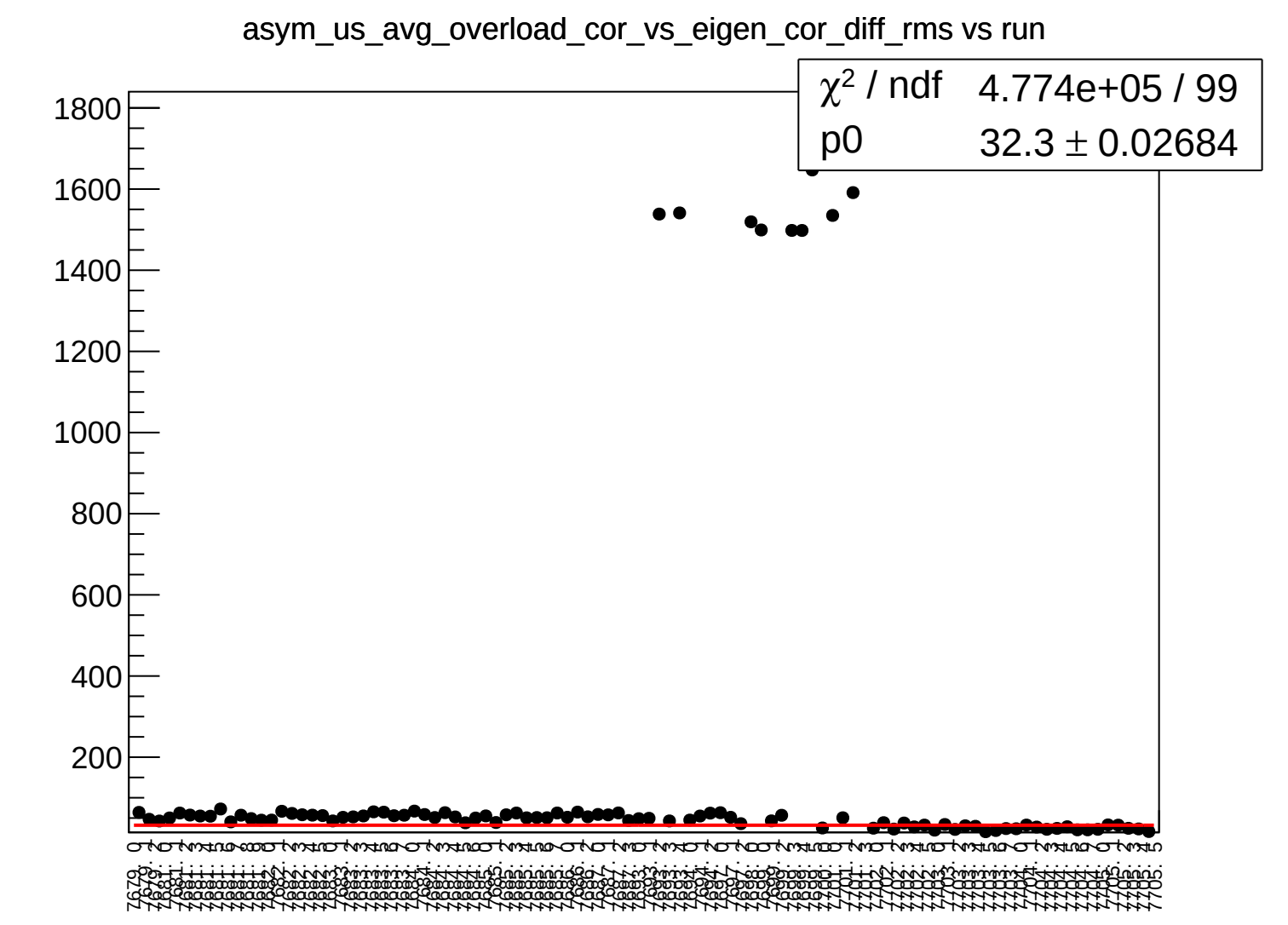

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.09e+06 / 99
p0 3.565e−11 ± 3.9e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

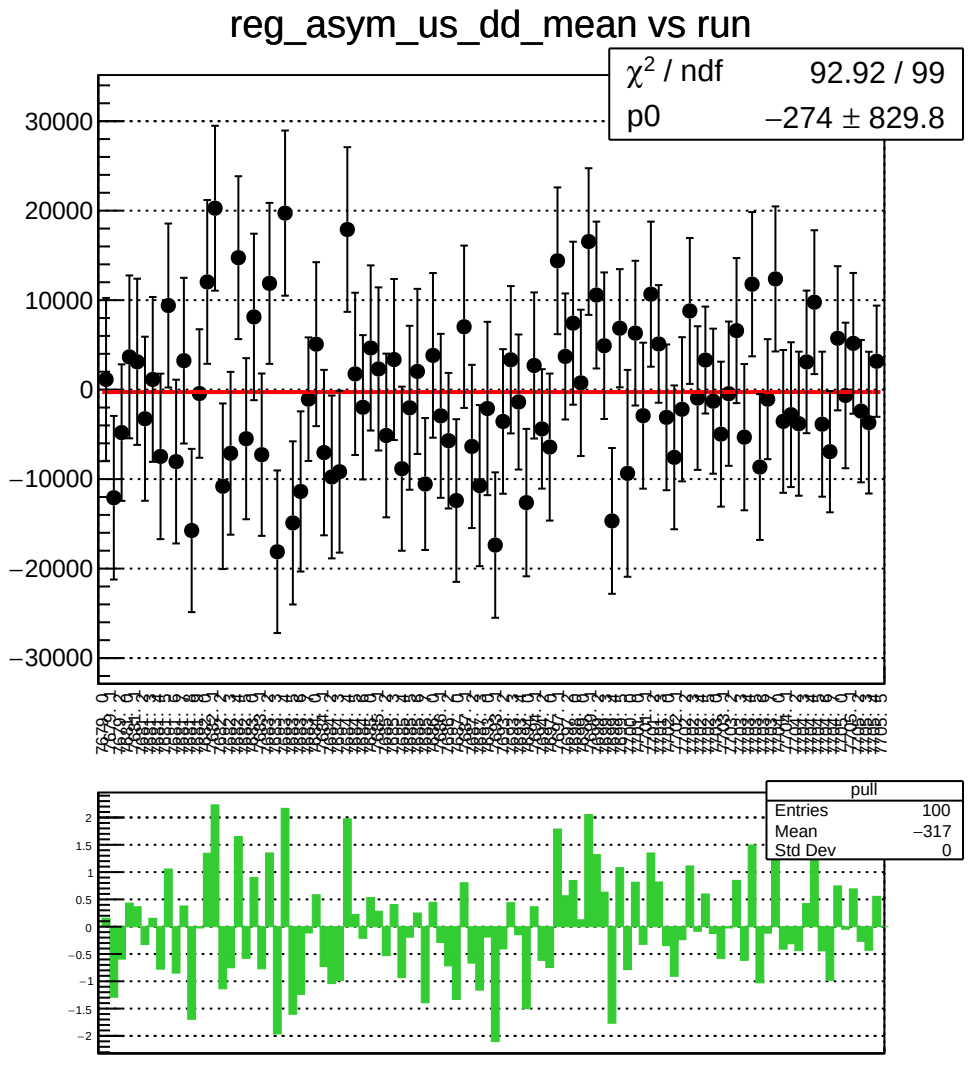

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 102.4 / 99
p0 −0.001074 ± 0.03796
40
20
0
−20
−40
pull
Entries 100
Mean 19.27
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.04545
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

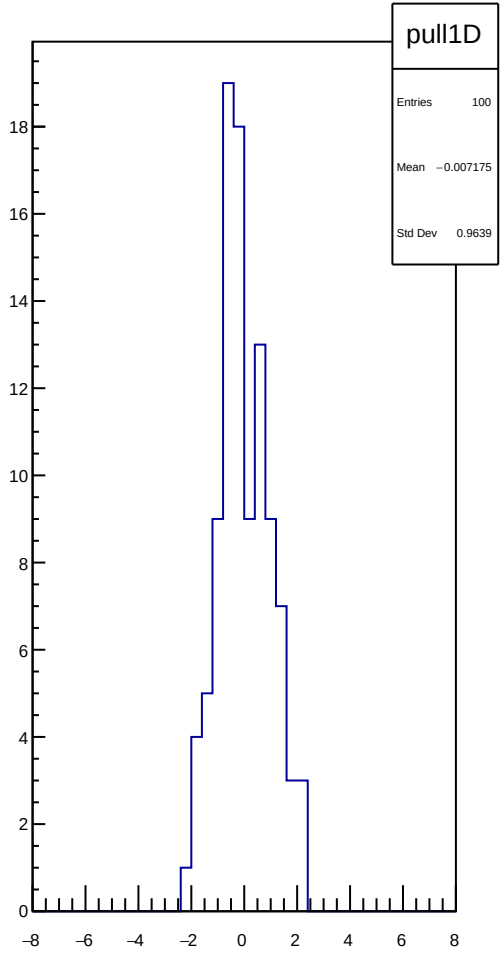

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 4.774e+05 / 99
p0 32.3 ± 0.02684
1800
1600
1400
1200
1000
800
600
400
200

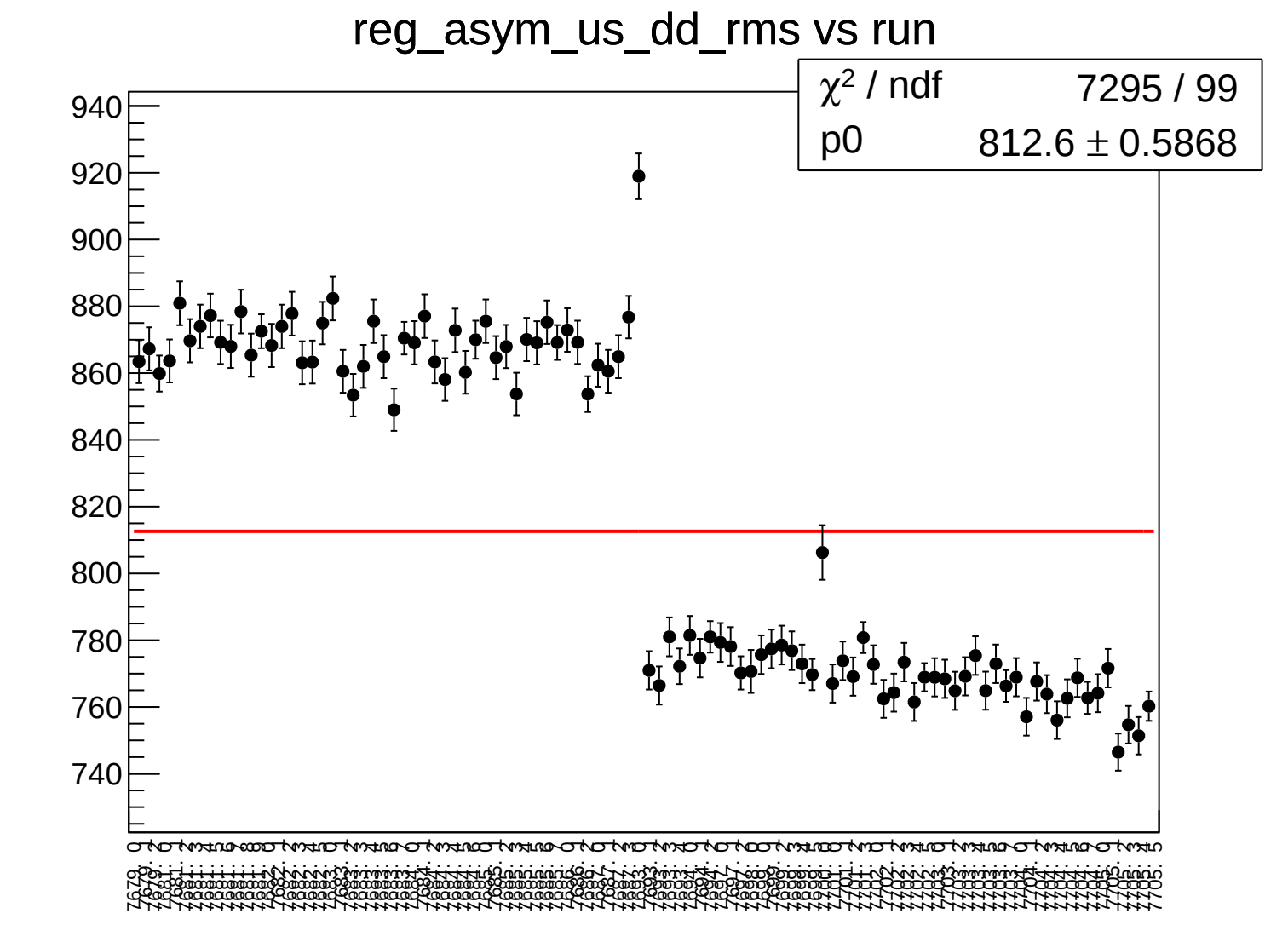

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.4 / 99
p0 −0.001074 ± 0.03796
40
20
0
−20
−40
pull
Entries 100
Mean 19.27
Std Dev 0
2
1
0
−1
−2

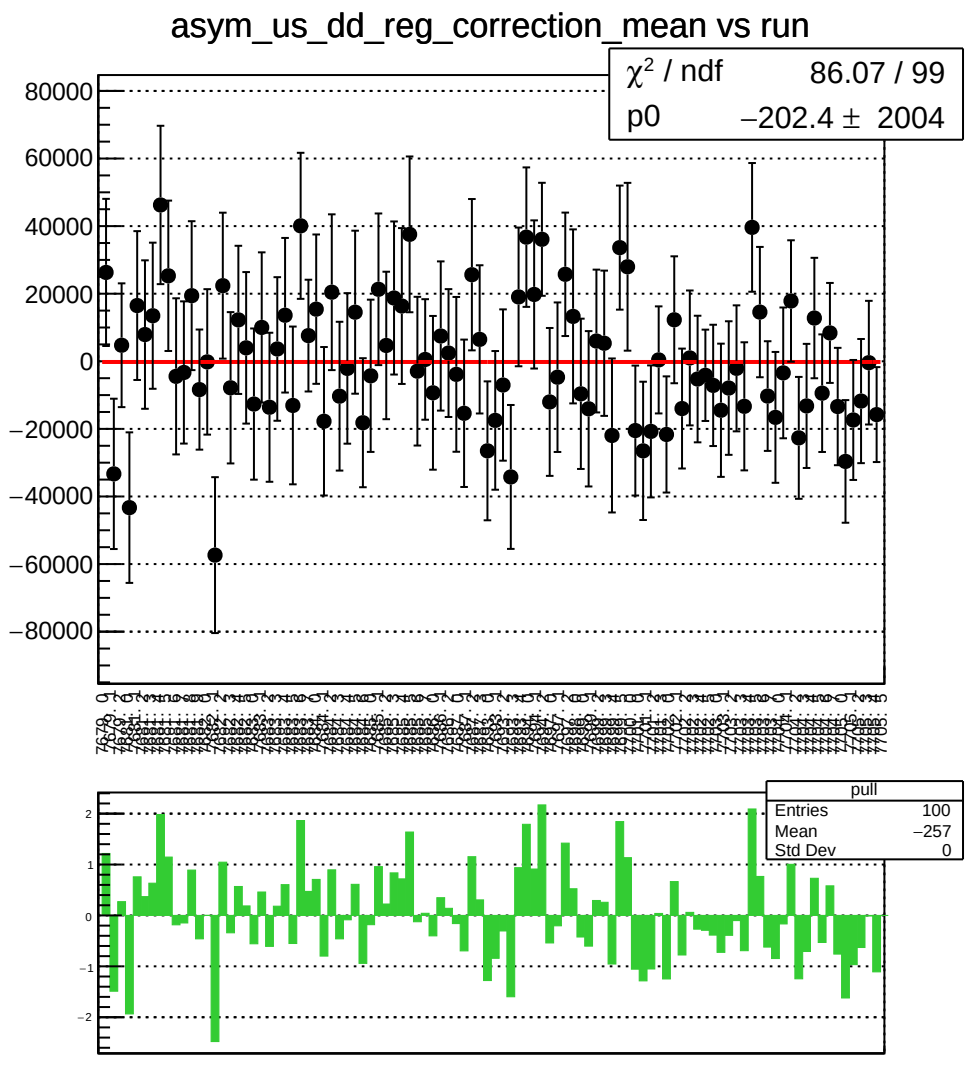

pull1D
Entries 100
Mean 0.04545
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

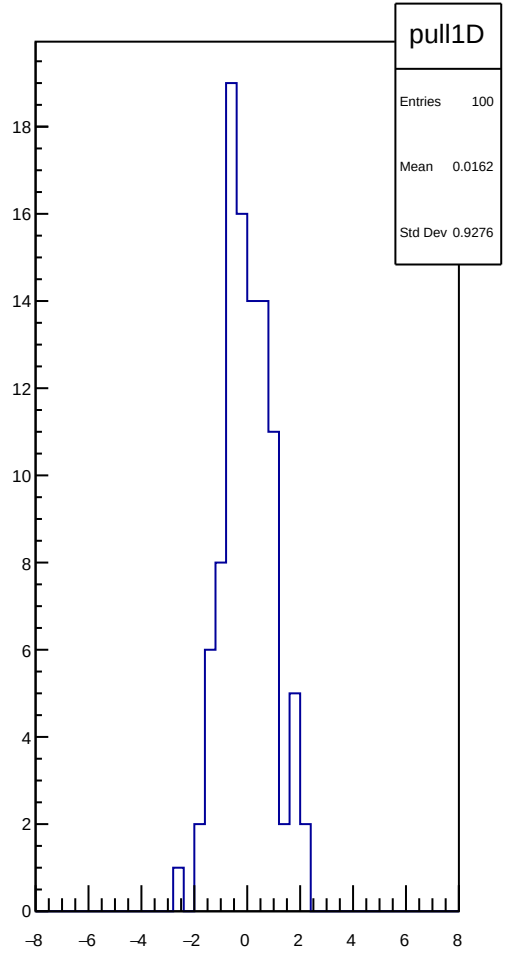

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.774e+05 / 99
p0 32.3 ± 0.02684
1800
1600
1400
1200
1000
800
600
400
200

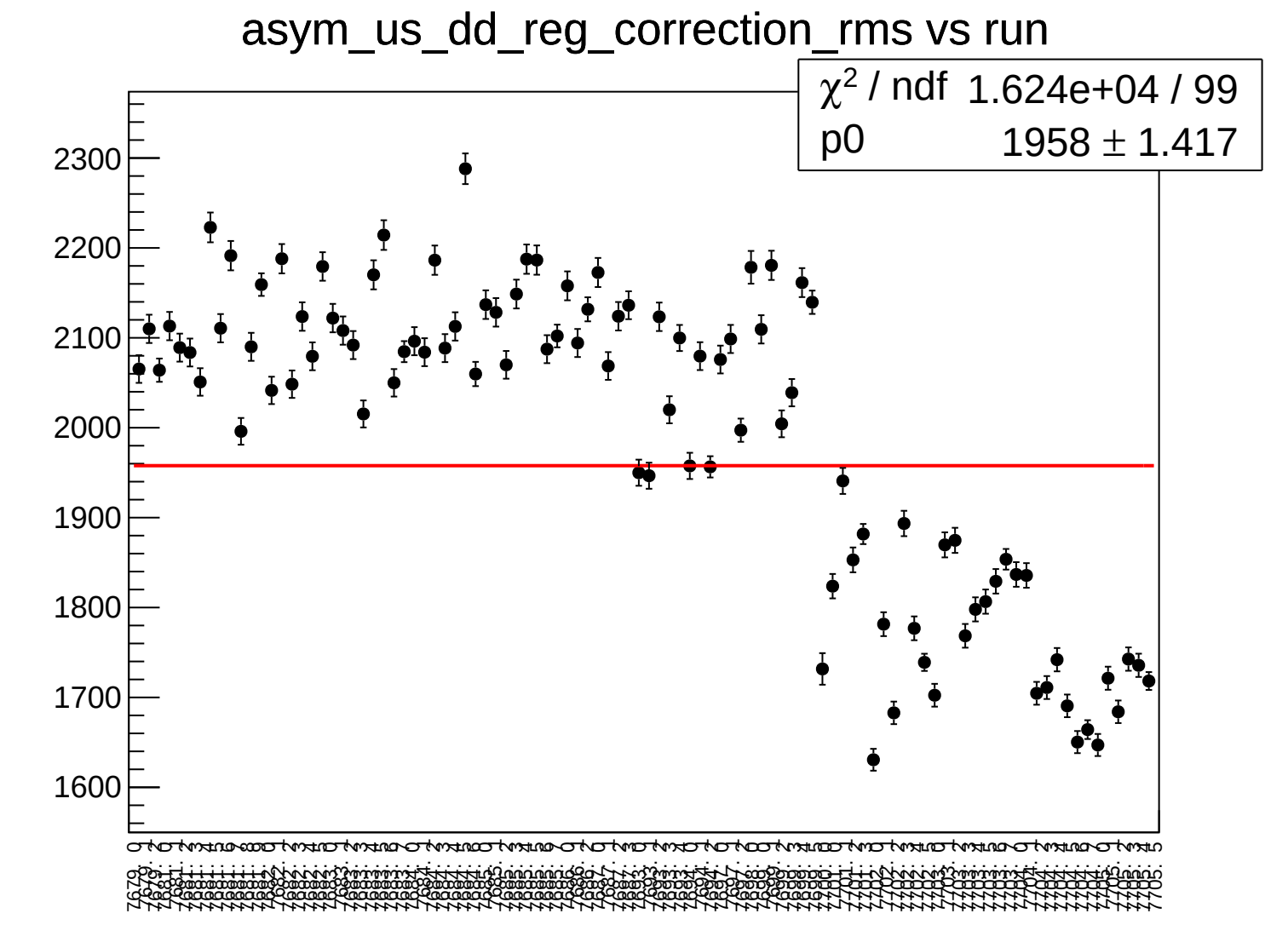

reg_asym_us_dd_mean vs run
χ² / ndf 92.92 / 99
p0 −274 ± 829.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 100
Mean −317
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

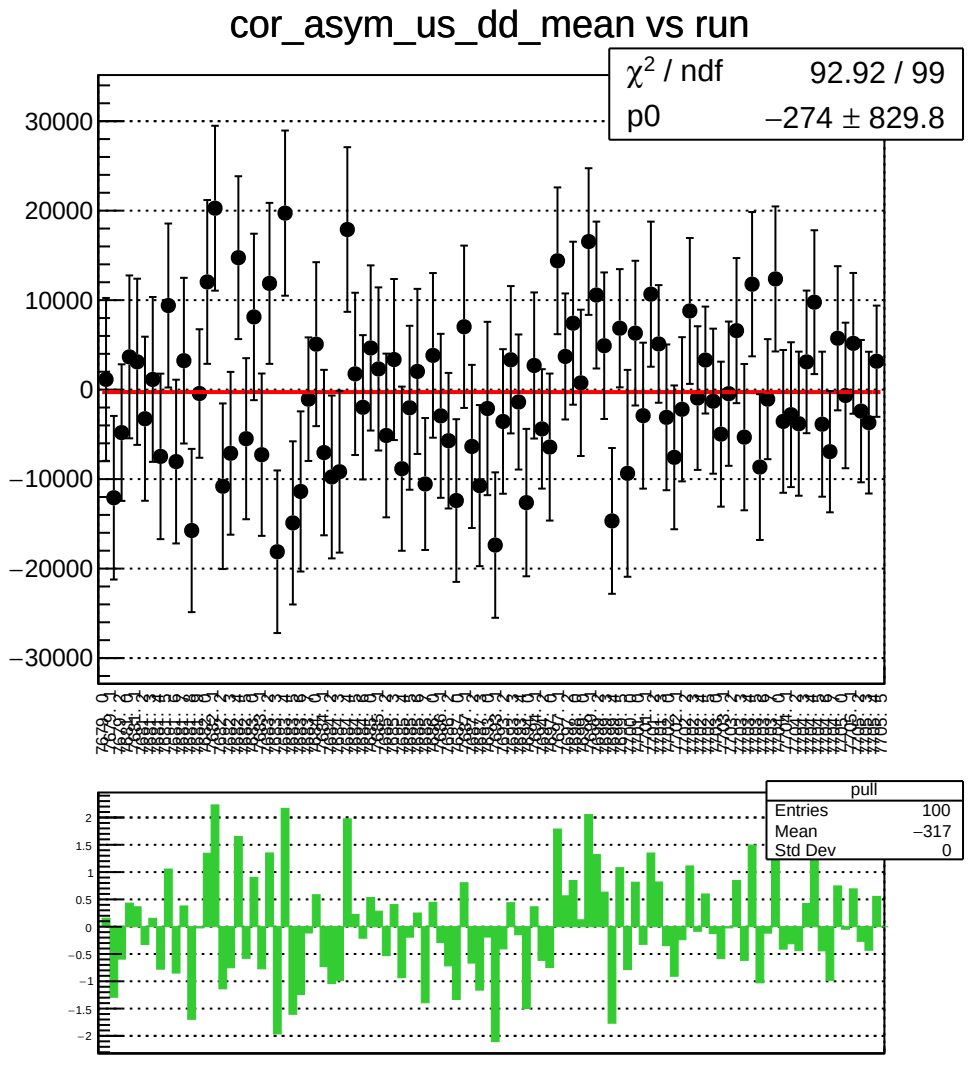

pull1D
Entries 100
Mean −0.007175
Std Dev 0.9639
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

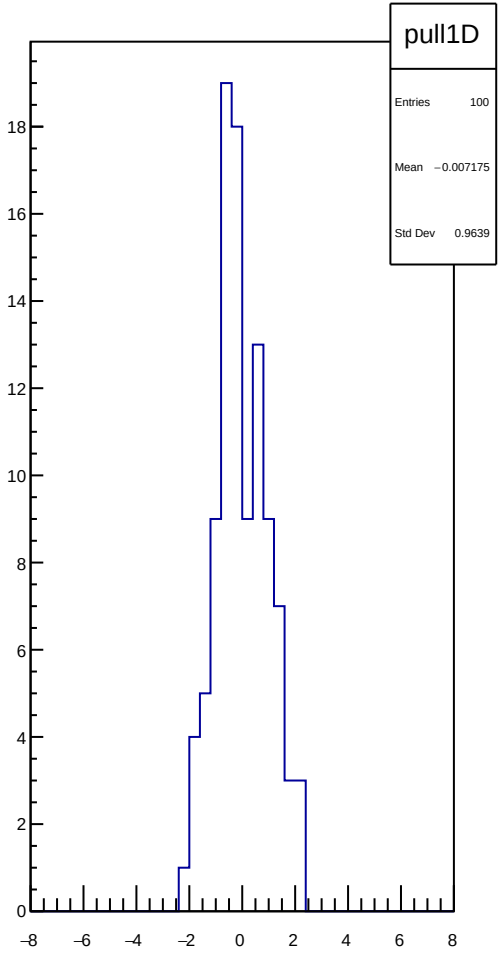

reg_asym_us_dd_rms vs run
χ² / ndf 7295 / 99
p0 812.6 ± 0.5868
940
920
900
880
860
840
820
800
780
760
740

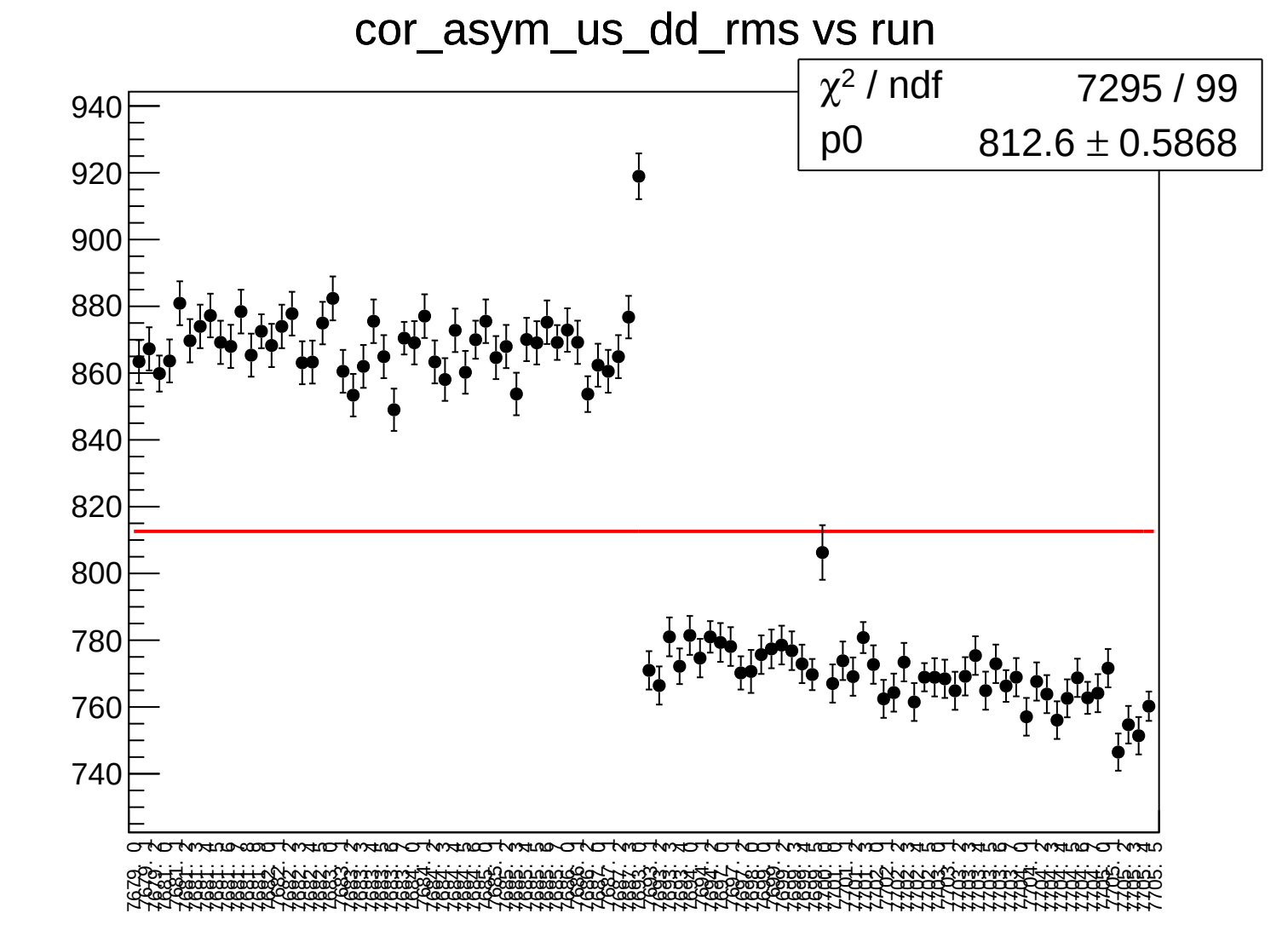

asym_us_dd_reg_correction_mean vs run
χ² / ndf 86.07 / 99
p0 −202.4 ± 2004
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −257
Std Dev 0
2
1
0
−1
−2

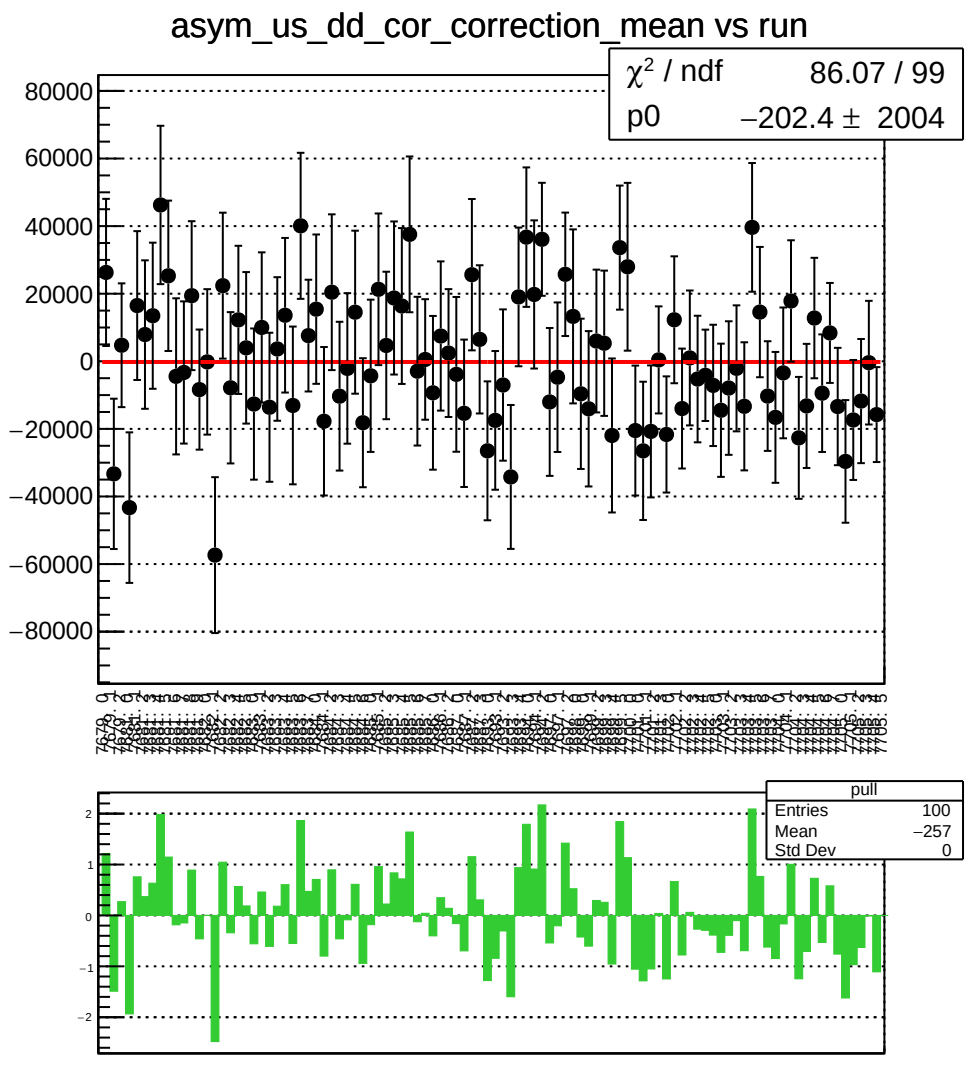

pull1D
Entries 100
Mean 0.0162
Std Dev 0.9276
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

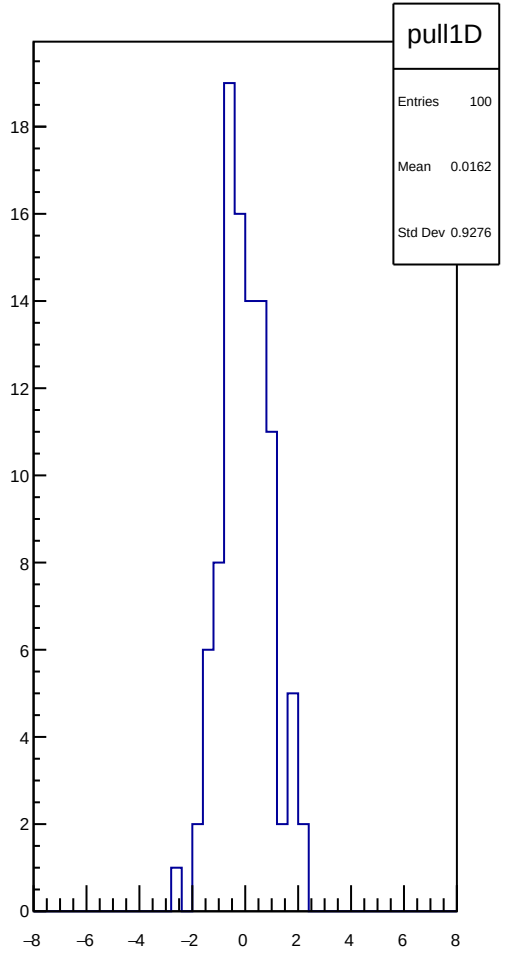

asym_us_dd_reg_correction_rms vs run
χ² / ndf 1.624e+04 / 99
p0 1958 ± 1.417
2300
2200
2100
2000
1900
1800
1700
1600

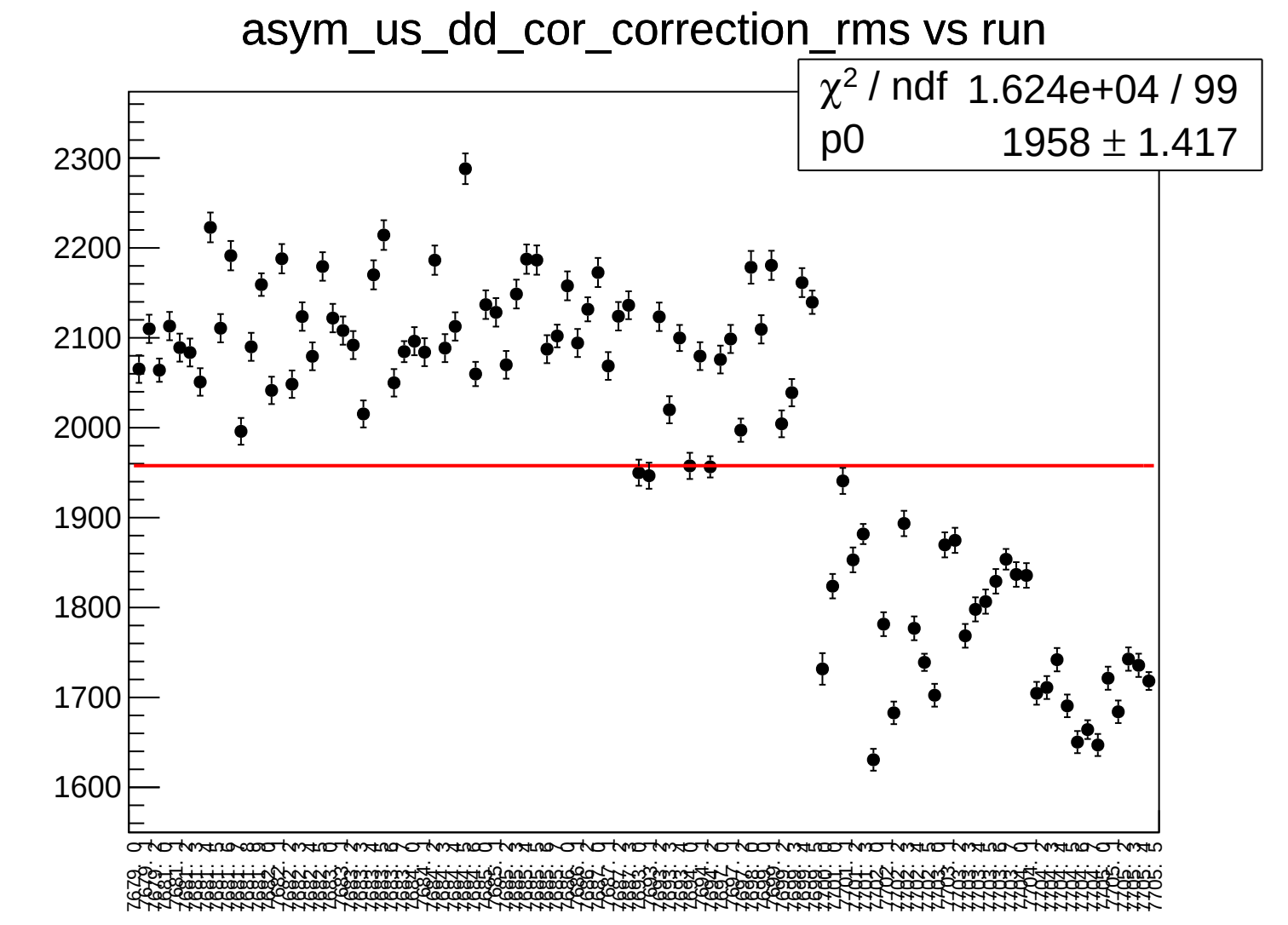

cor_asym_us_dd_mean vs run
χ² / ndf 92.92 / 99
p0 −274 ± 829.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 100
Mean −317
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

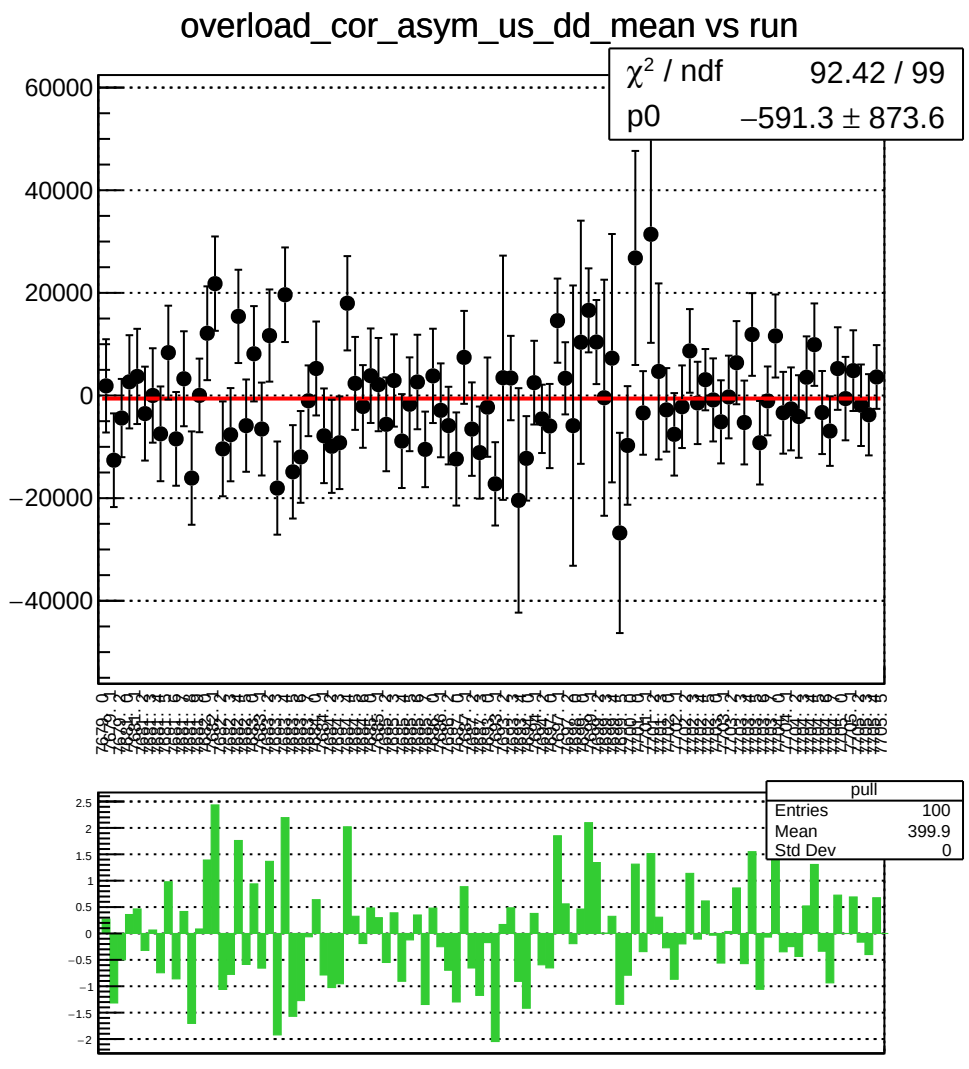

pull1D
Entries 100
Mean −0.007175
Std Dev 0.9639
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

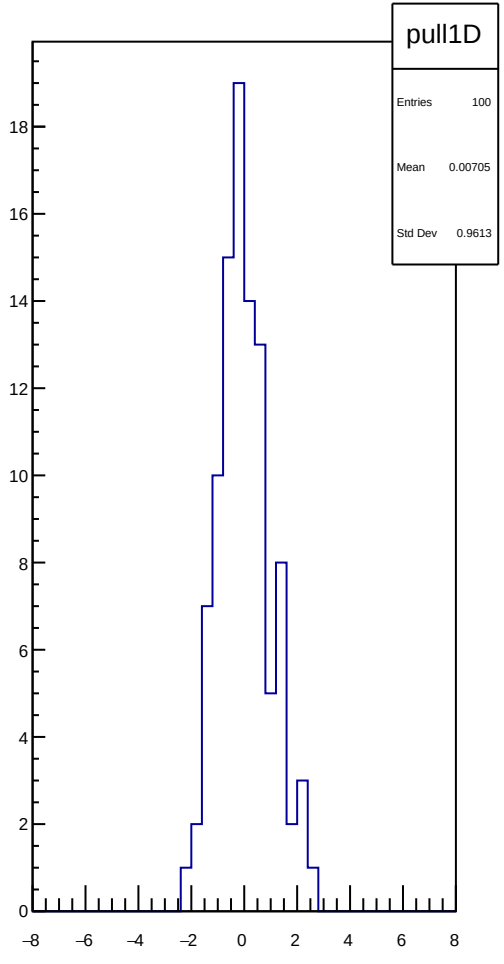

cor_asym_us_dd_rms vs run
χ² / ndf 7295 / 99
p0 812.6 ± 0.5868
940
920
900
880
860
840
820
800
780
760
740

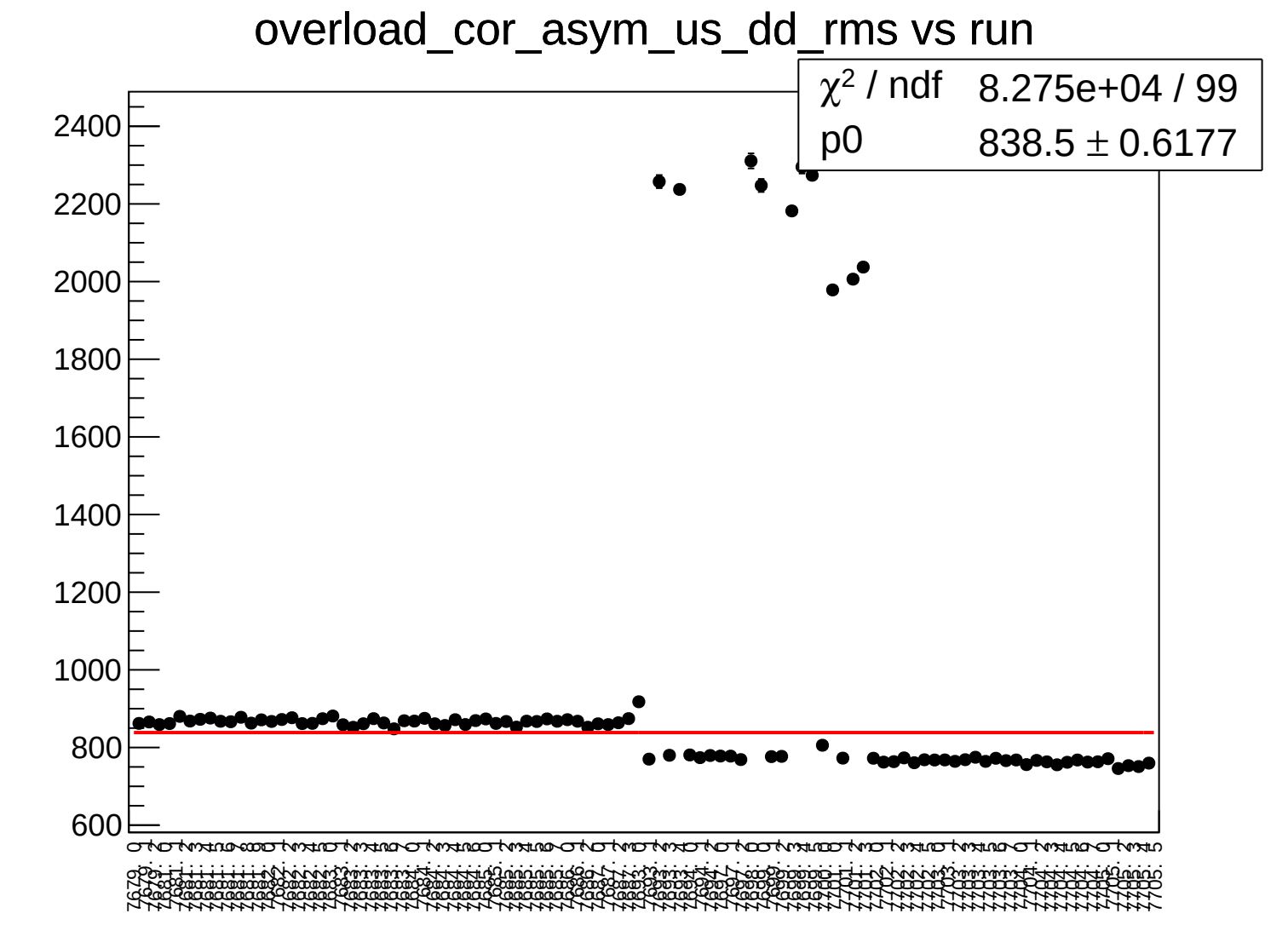

asym_us_dd_cor_correction_mean vs run
χ² / ndf 86.07 / 99
p0 −202.4 ± 2004
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −257
Std Dev 0
2
1
0
−1
−2

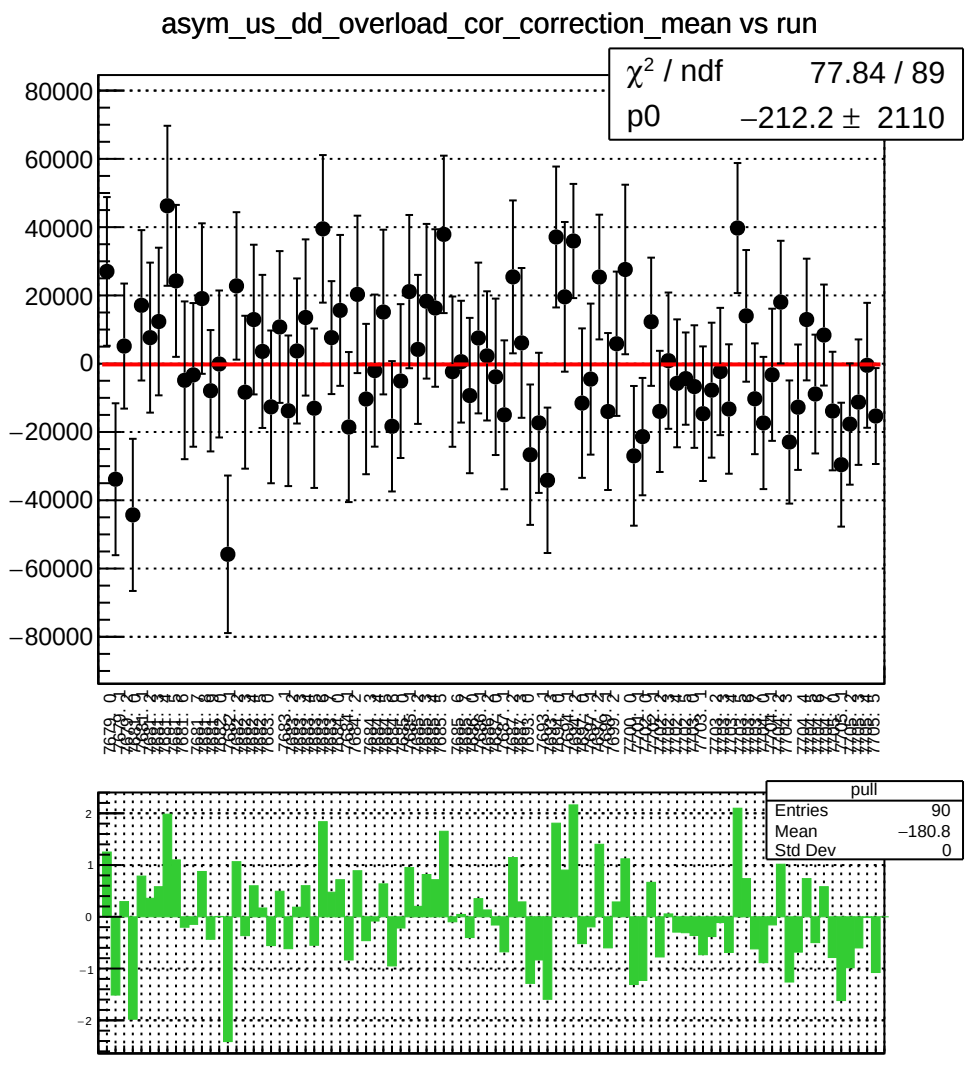

pull1D
Entries 100
Mean 0.0162
Std Dev 0.9276
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

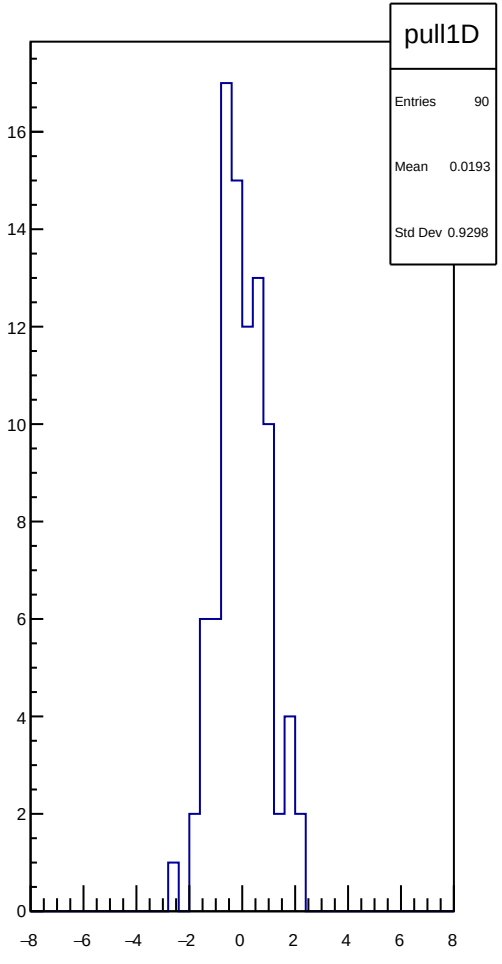

asym_us_dd_cor_correction_rms vs run
χ² / ndf 1.624e+04 / 99
p0 1958 ± 1.417
2300
2200
2100
2000
1900
1800
1700
1600

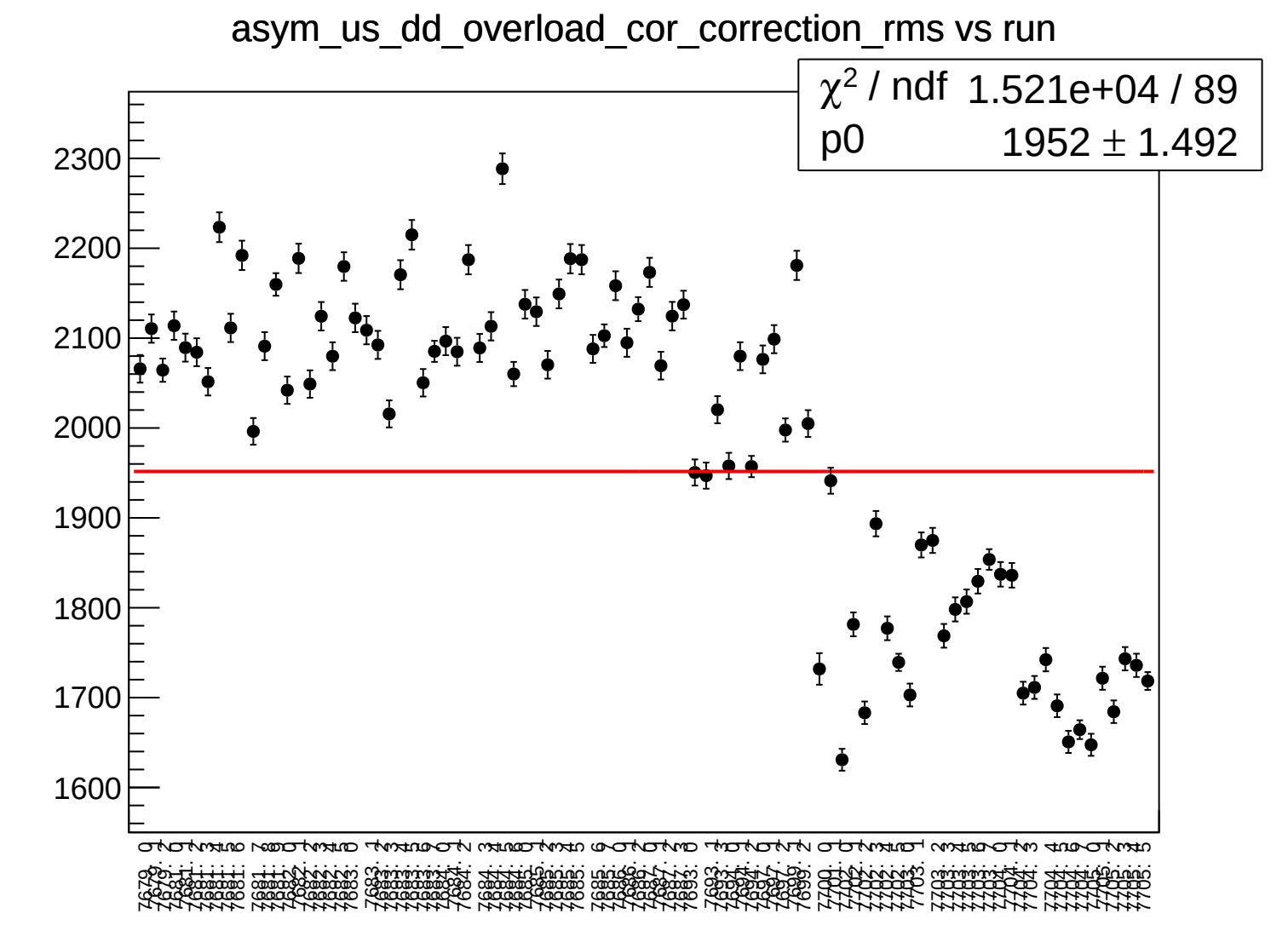

overload_cor_asym_us_dd_mean vs run
χ² / ndf 92.42 / 99
p0 −591.3 ± 873.6
60000
40000
20000
0
−20000
−40000
pull
Entries 100
Mean 399.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

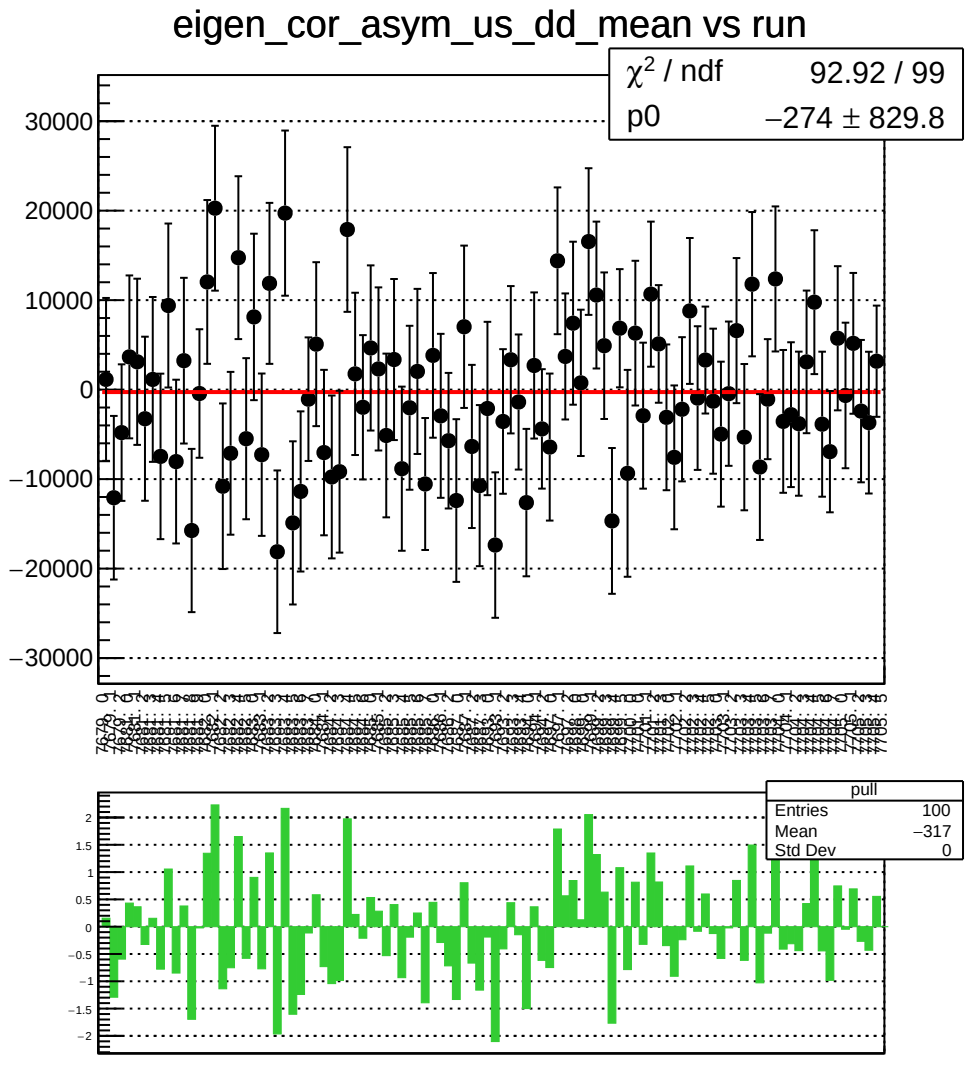

pull1D
Entries 100
Mean 0.00705
Std Dev 0.9613
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

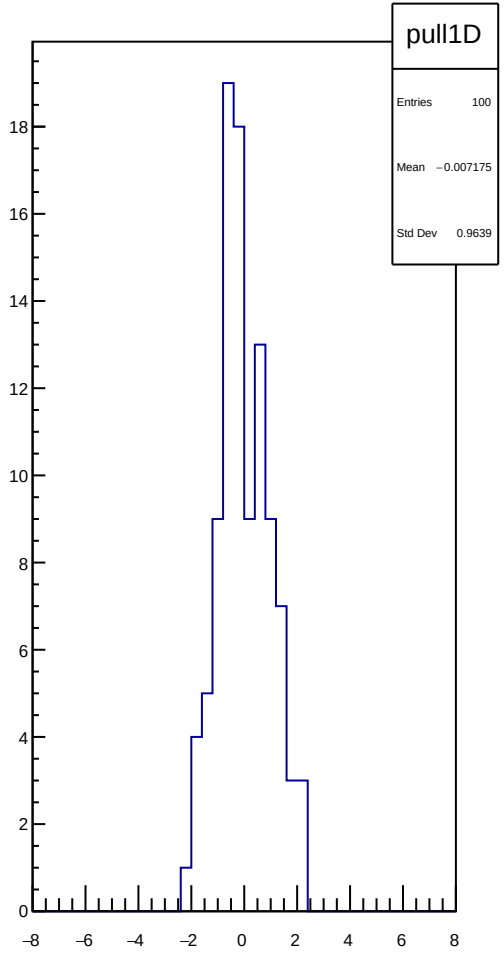

overload_cor_asym_us_dd_rms vs run
χ² / ndf 8.275e+04 / 99
p0 838.5 ± 0.6177
2400
2200
2000
1800
1600
1400
1200
1000
800
600

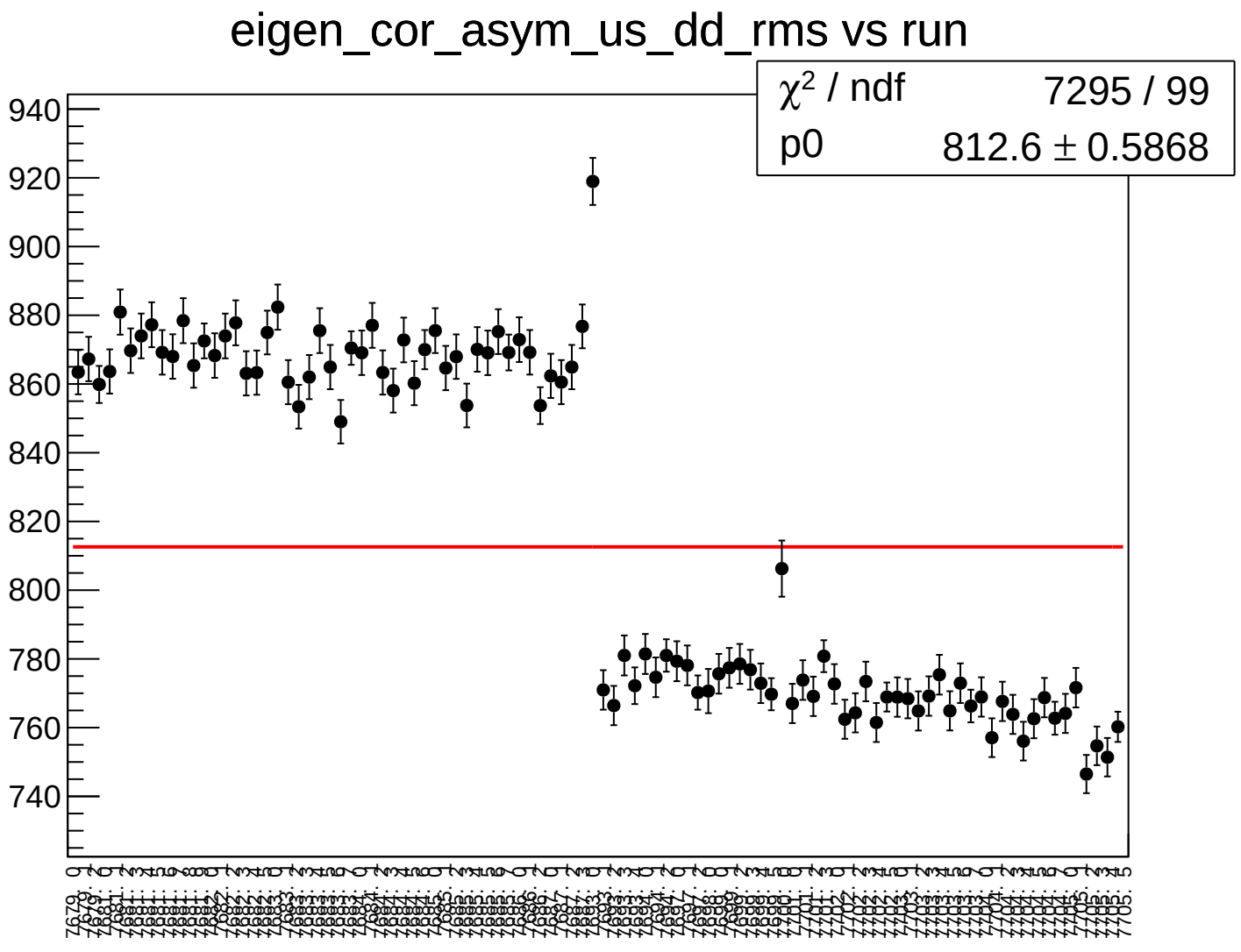

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 77.84 / 89
p0 −212.2 ± 2110
pull
Entries 90
Mean −180.8
Std Dev 0

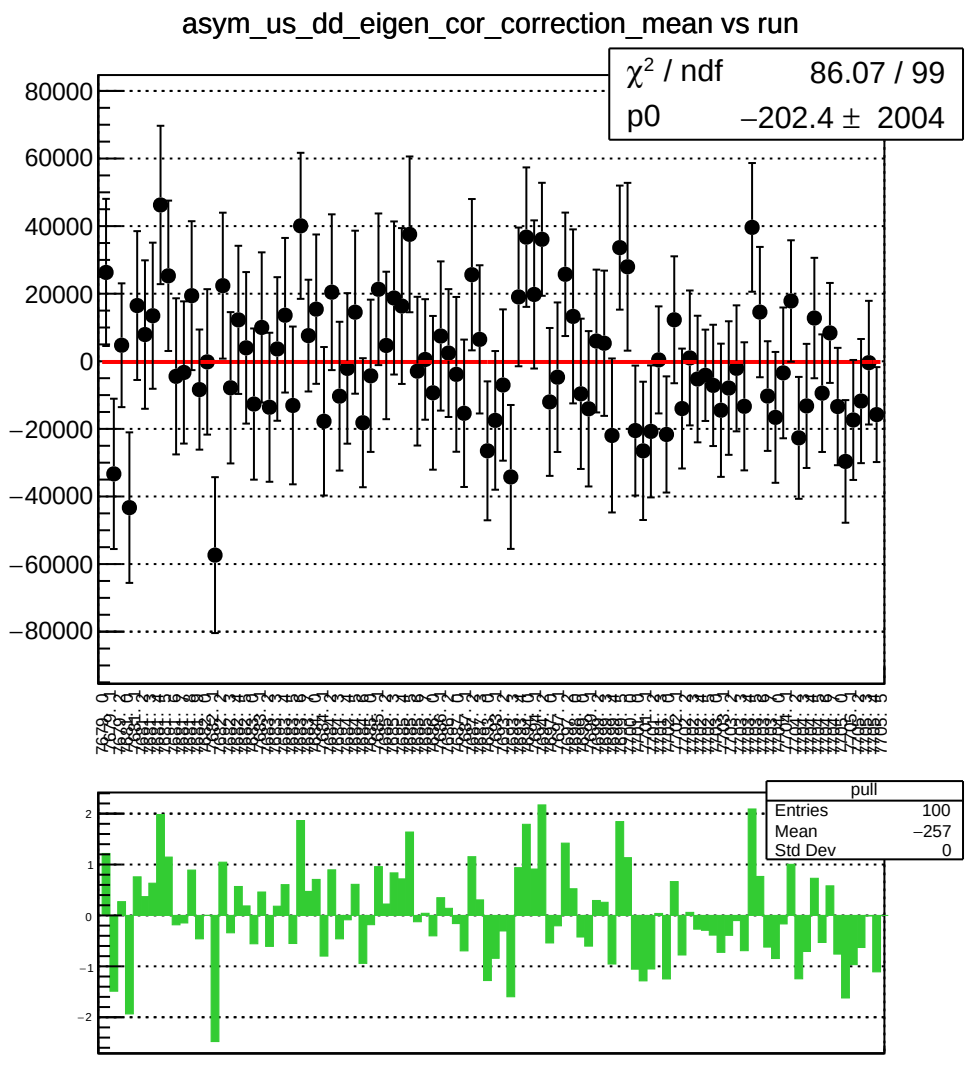

pull1D
Entries 90
Mean 0.0193
Std Dev 0.9298

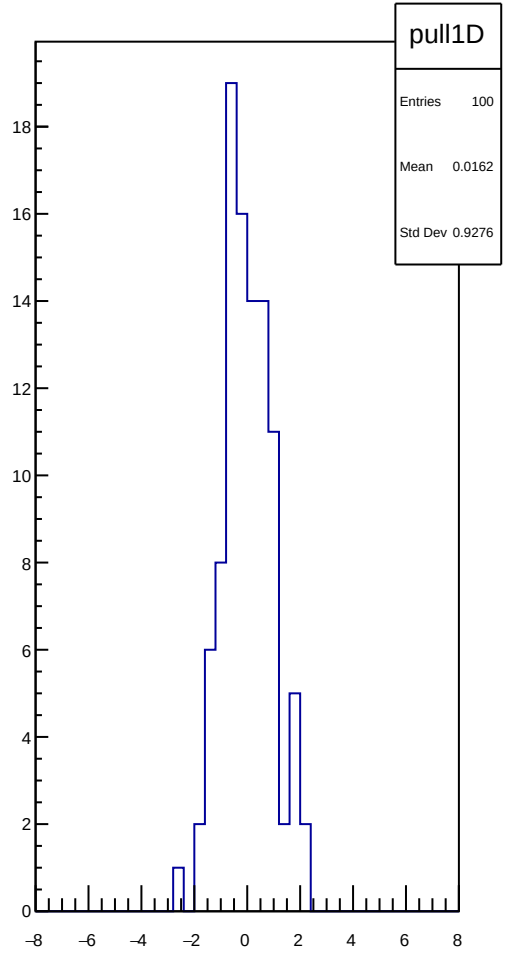

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 1.521e+04 / 89
p0 1952 ± 1.492
2300
2200
2100
2000
1900
1800
1700
1600

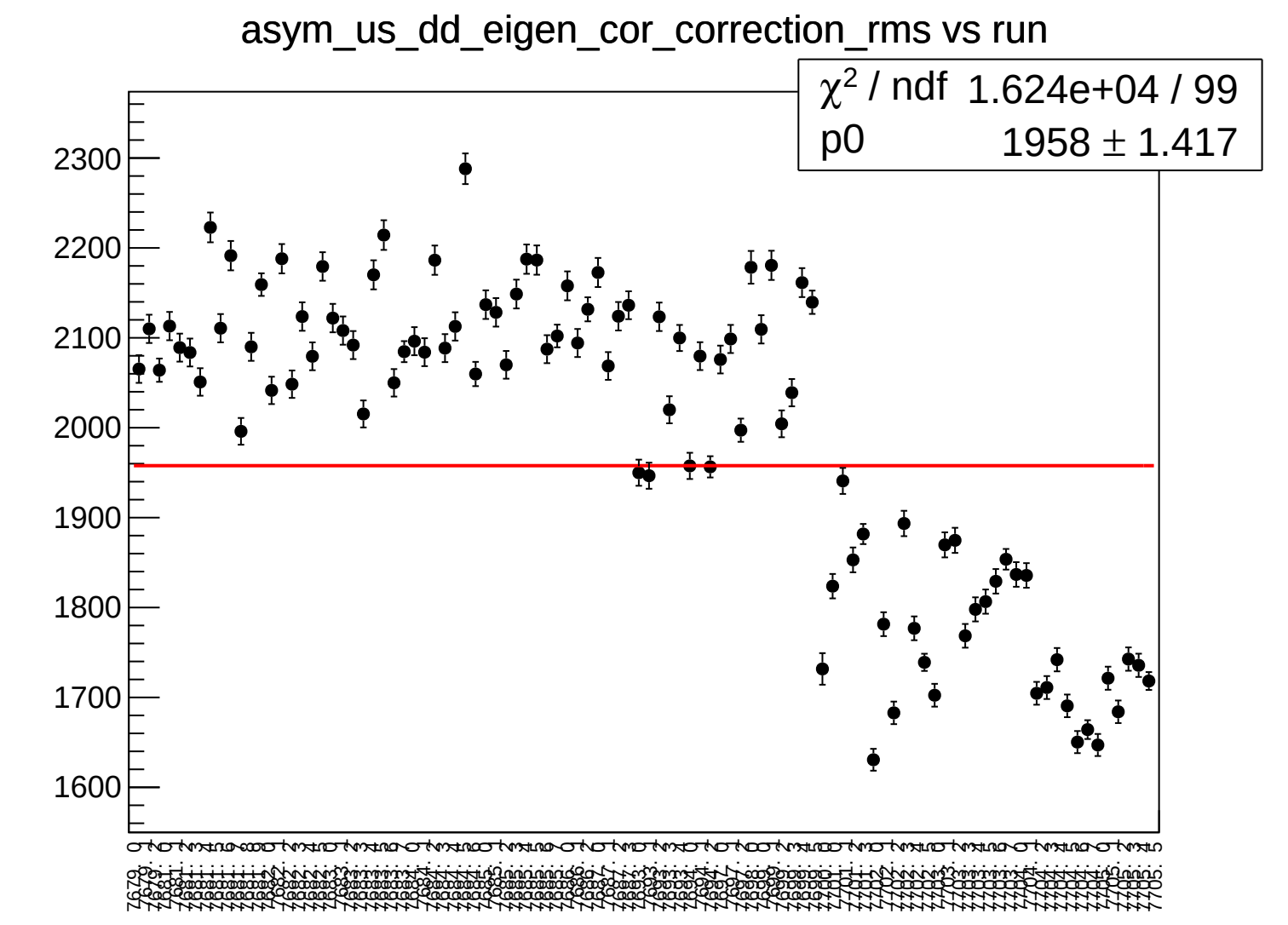

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 92.92 / 99
p0 −274 ± 829.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 100
Mean −317
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

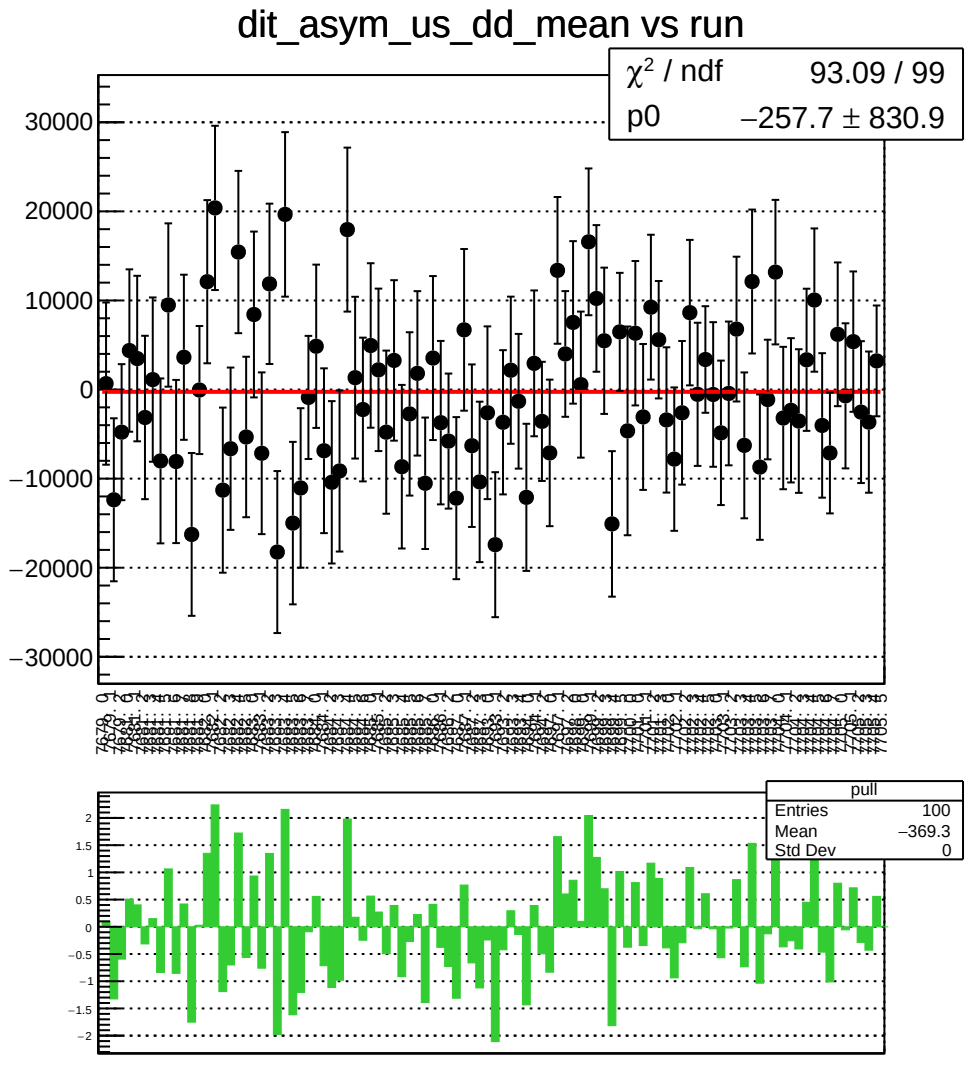

pull1D
Entries 100
Mean −0.007175
Std Dev 0.9639
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

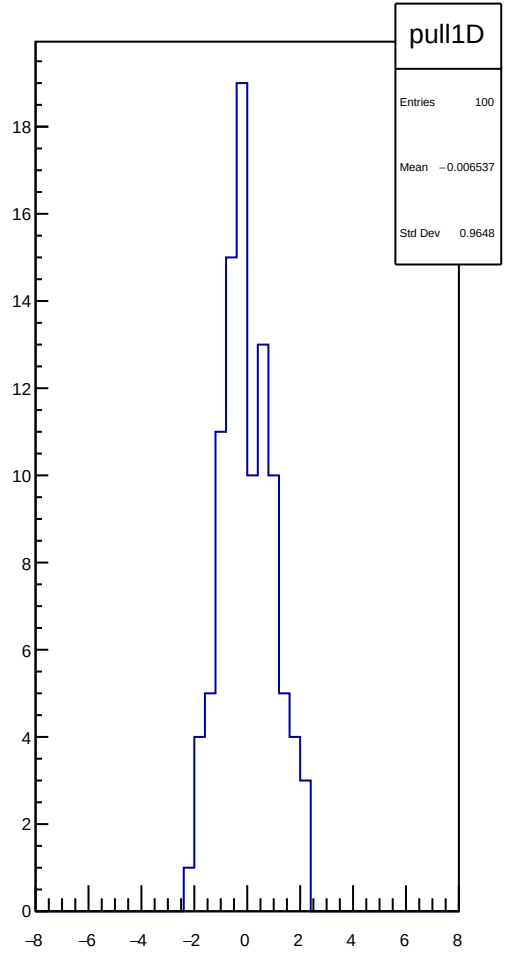

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 7295 / 99
p0 812.6 ± 0.5868
940
920
900
880
860
840
820
800
780
760
740

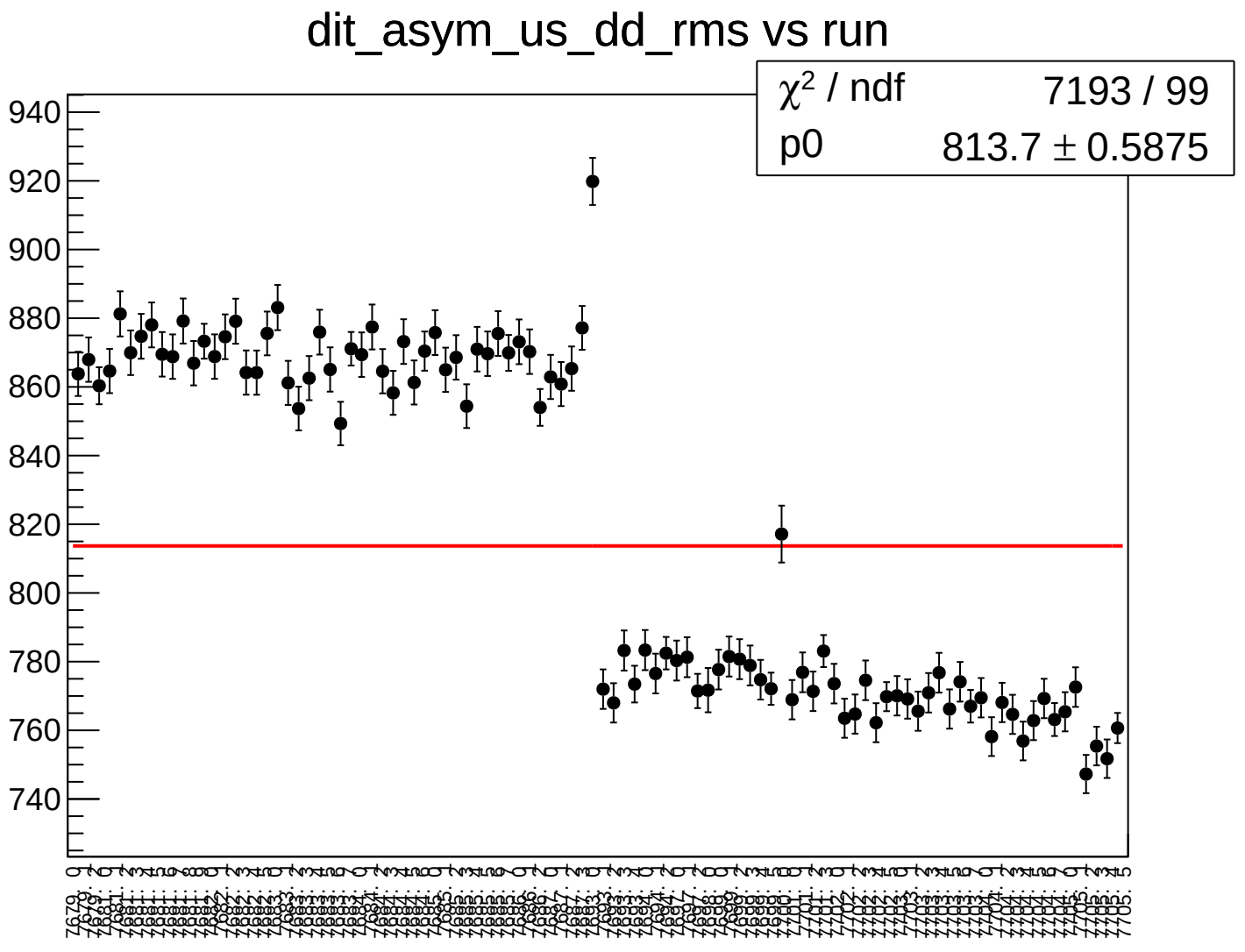

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 86.07 / 99
p0 −202.4 ± 2004
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −257
Std Dev 0
2
1
0
−1
−2

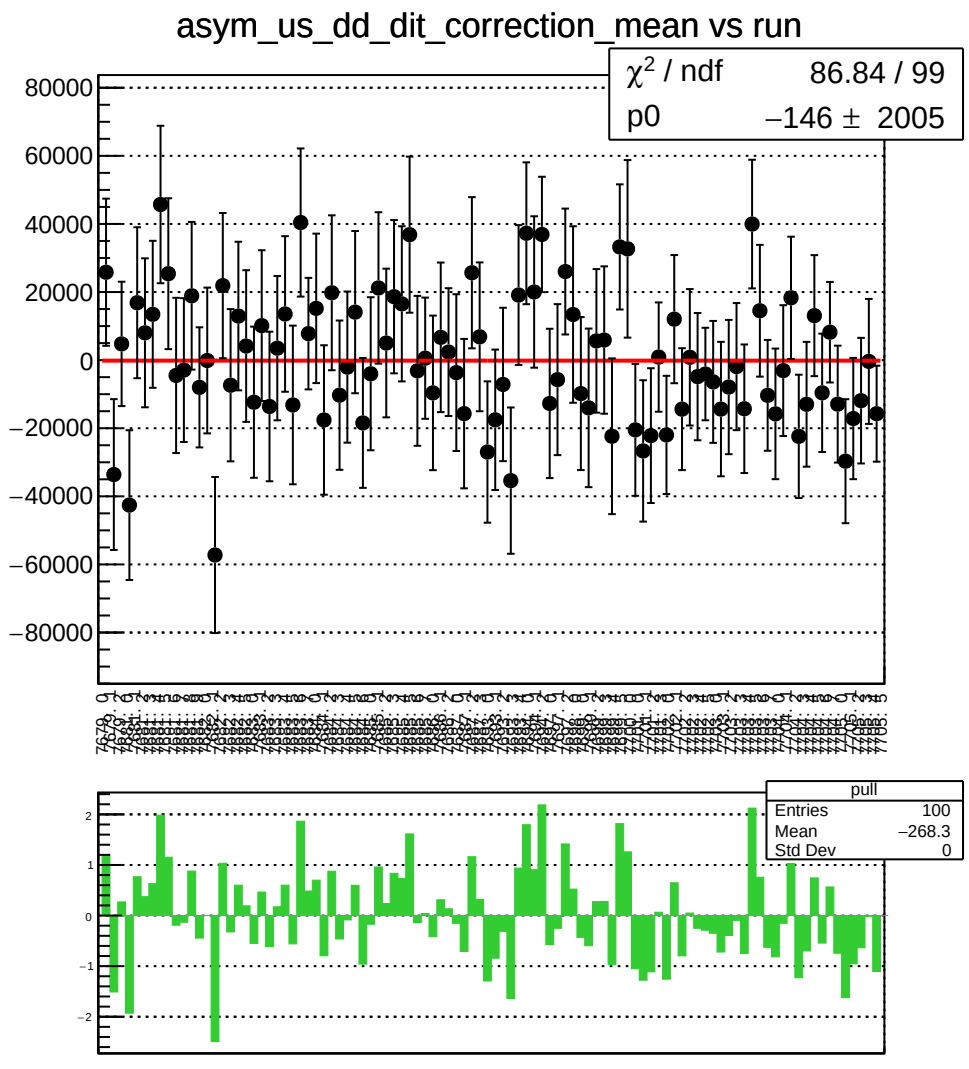

pull1D
Entries 100
Mean 0.0162
Std Dev 0.9276
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

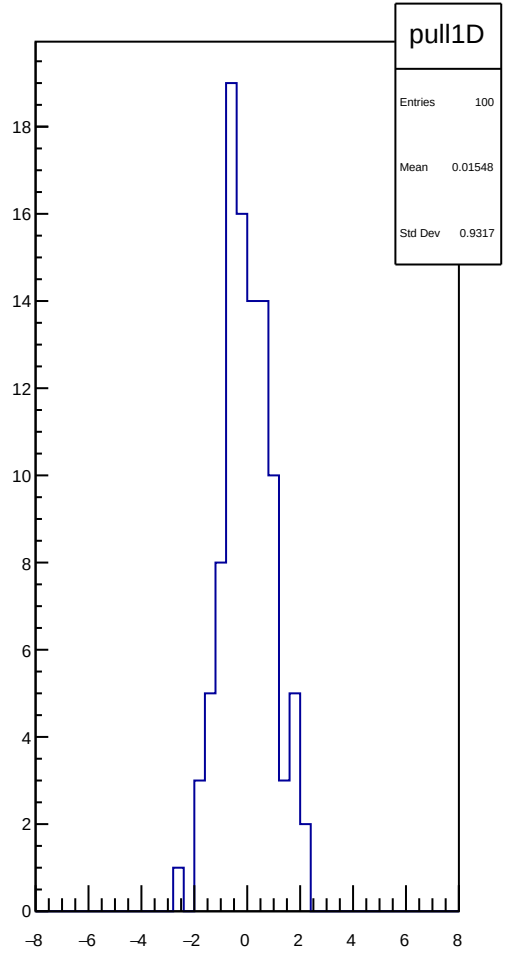

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.624e+04 / 99
p0 1958 ± 1.417
2300
2200
2100
2000
1900
1800
1700
1600

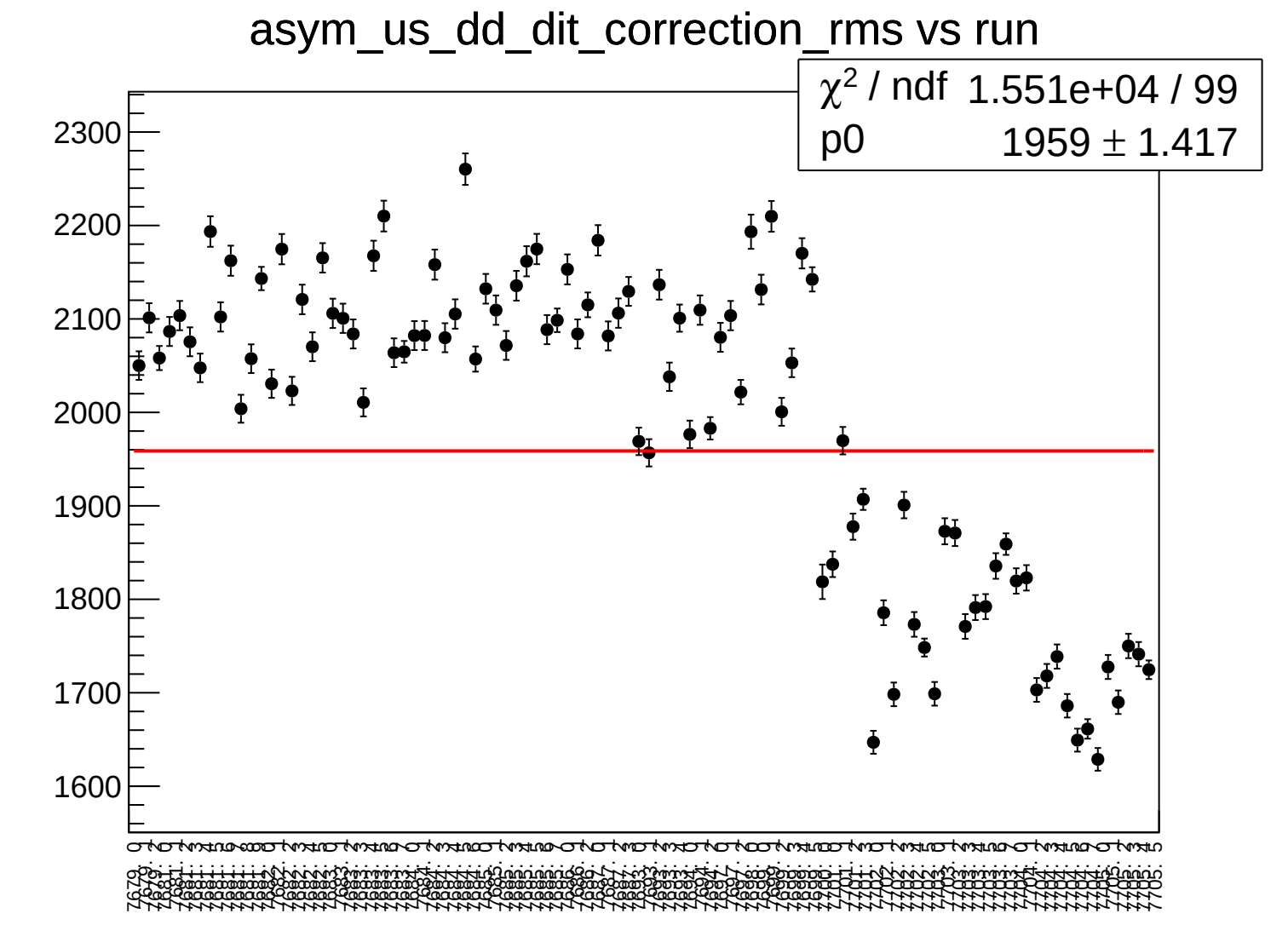

dit_asym_us_dd_mean vs run
χ² / ndf 93.09 / 99
p0 −257.7 ± 830.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 100
Mean −369.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

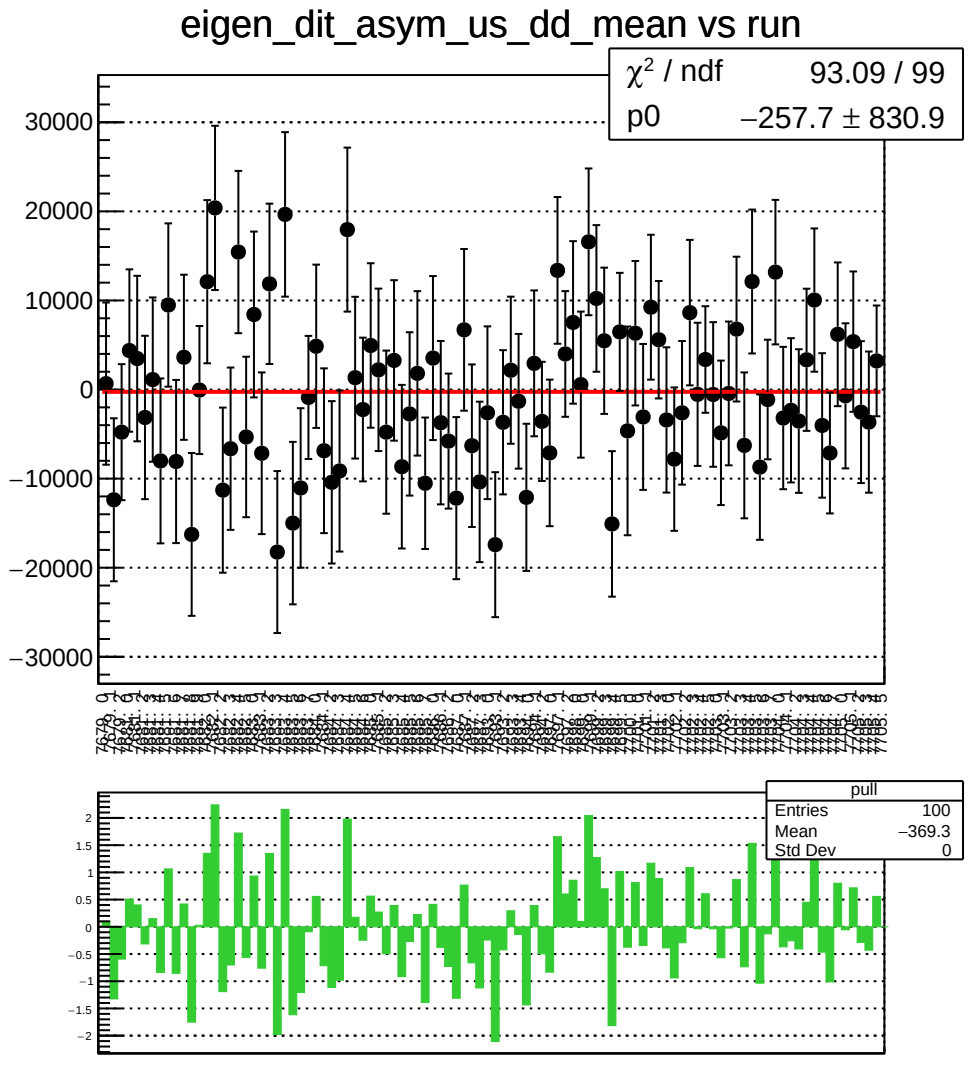

pull1D
Entries 100
Mean −0.006537
Std Dev 0.9648
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

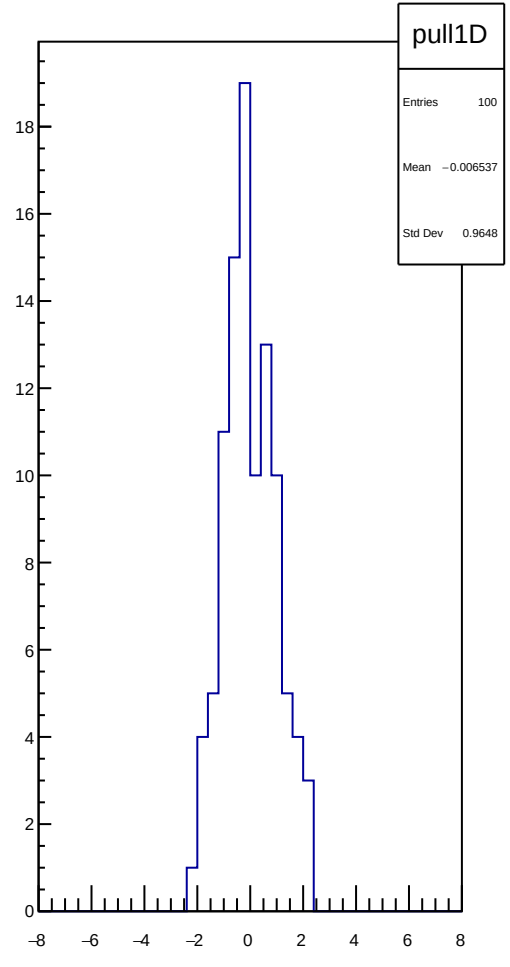

dit_asym_us_dd_rms vs run
χ² / ndf 7193 / 99
p0 813.7 ± 0.5875
940
920
900
880
860
840
820
800
780
760
740

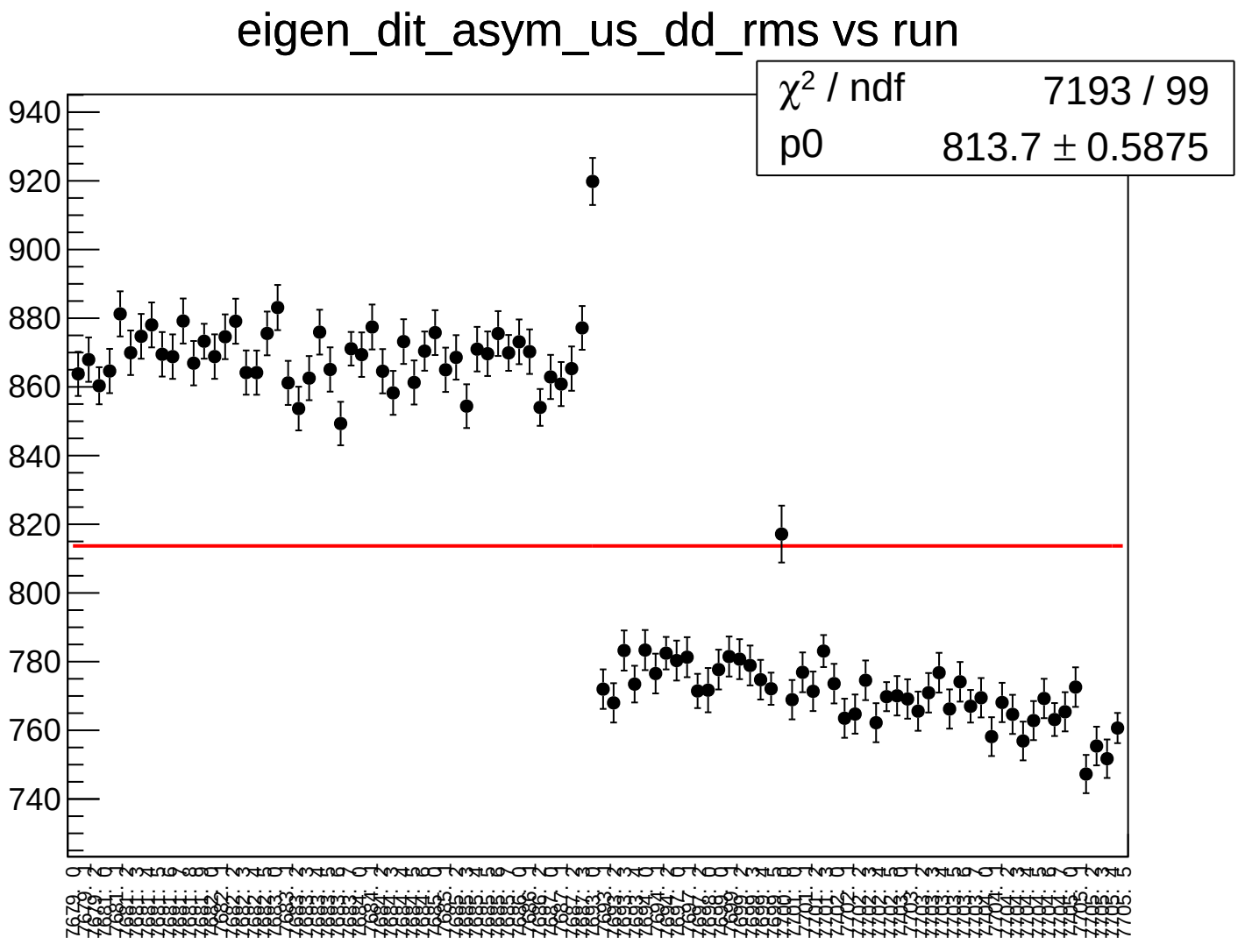

asym_us_dd_dit_correction_mean vs run
χ² / ndf 86.84 / 99
p0 −146 ± 2005
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −268.3
Std Dev 0
2
1
0
−1
−2

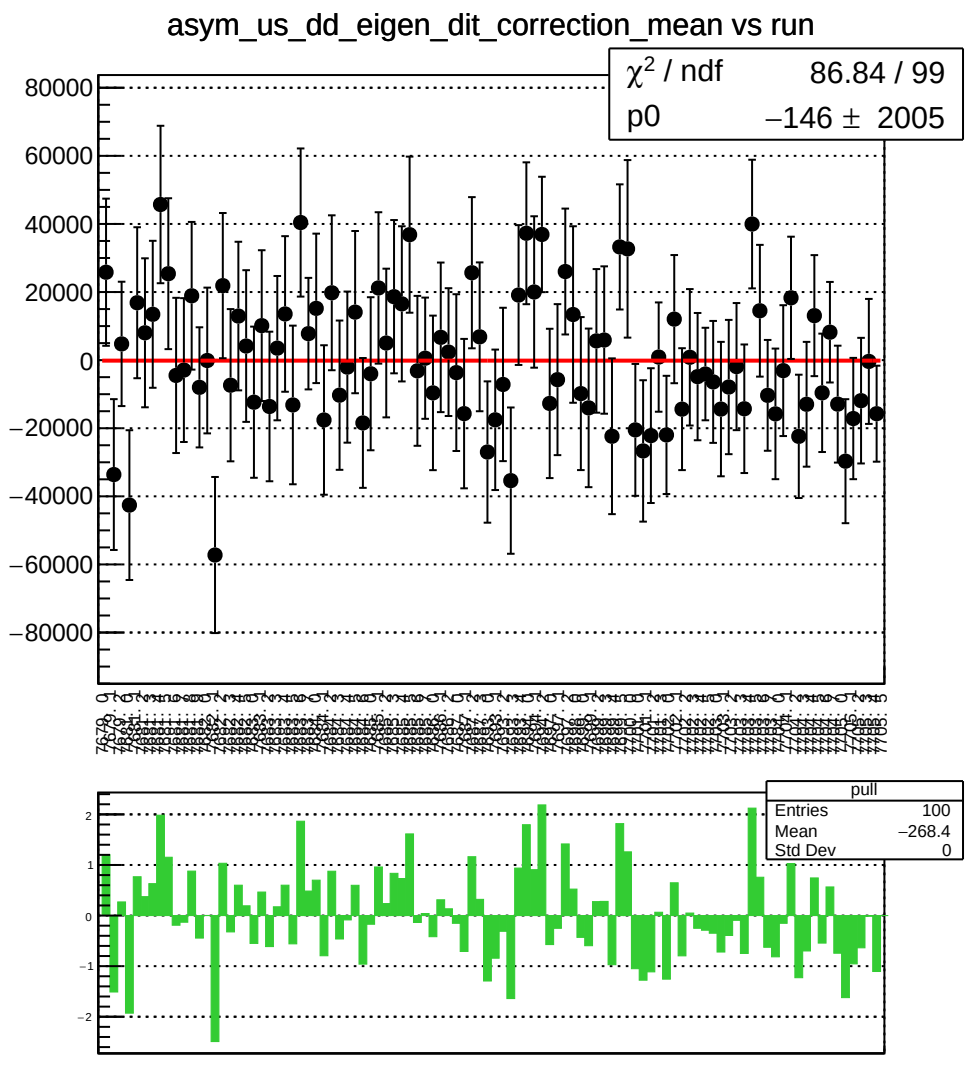

pull1D
Entries 100
Mean 0.01548
Std Dev 0.9317
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

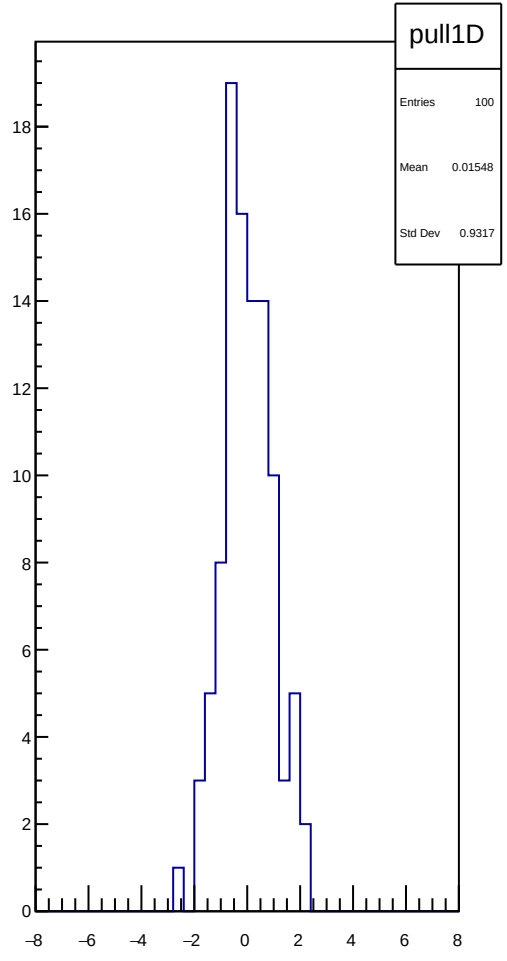

asym_us_dd_dit_correction_rms vs run
χ² / ndf 1.551e+04 / 99
p0 1959 ± 1.417
2300
2200
2100
2000
1900
1800
1700
1600

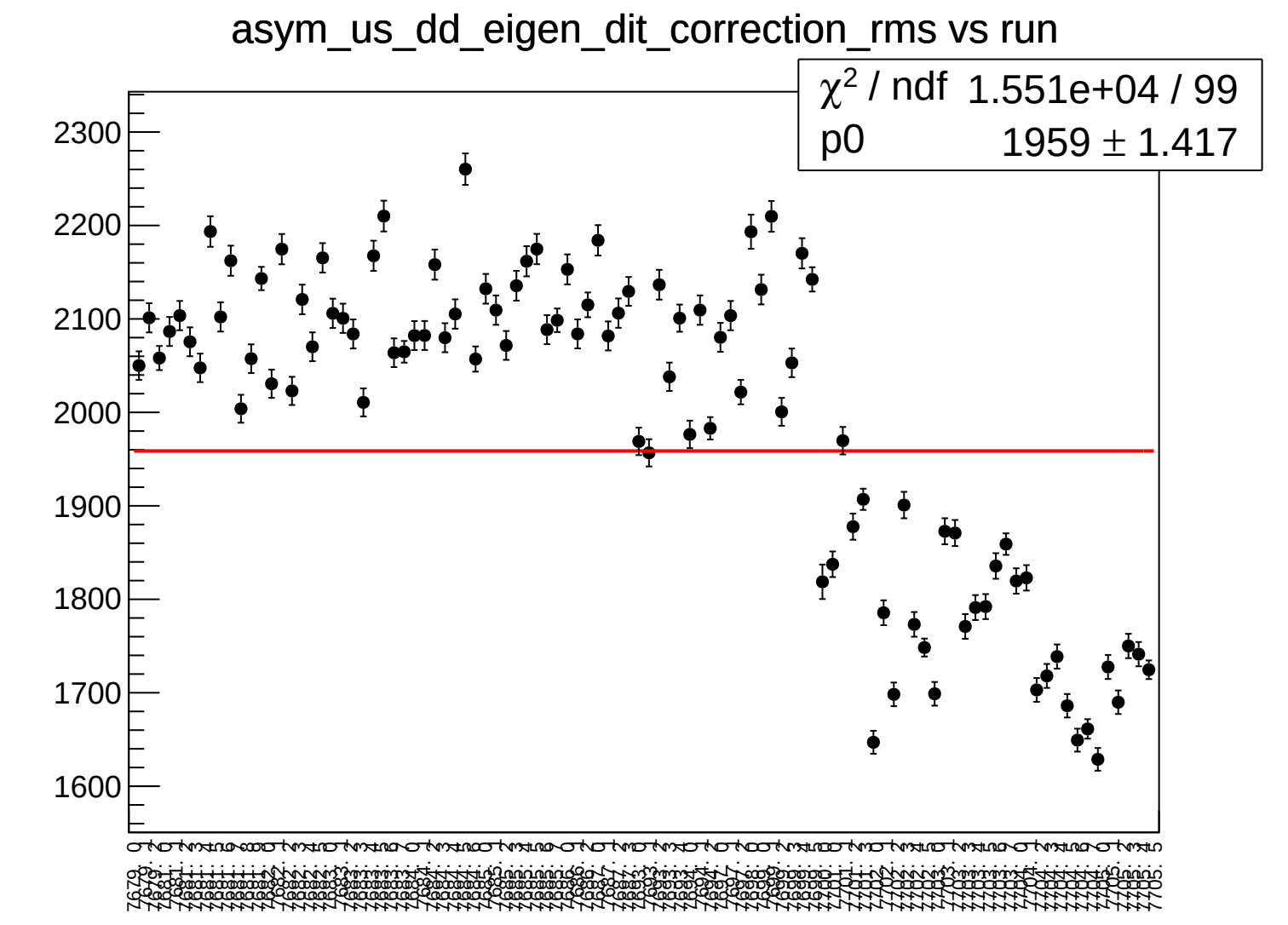

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 93.09 / 99
p0 −257.7 ± 830.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 100
Mean −369.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

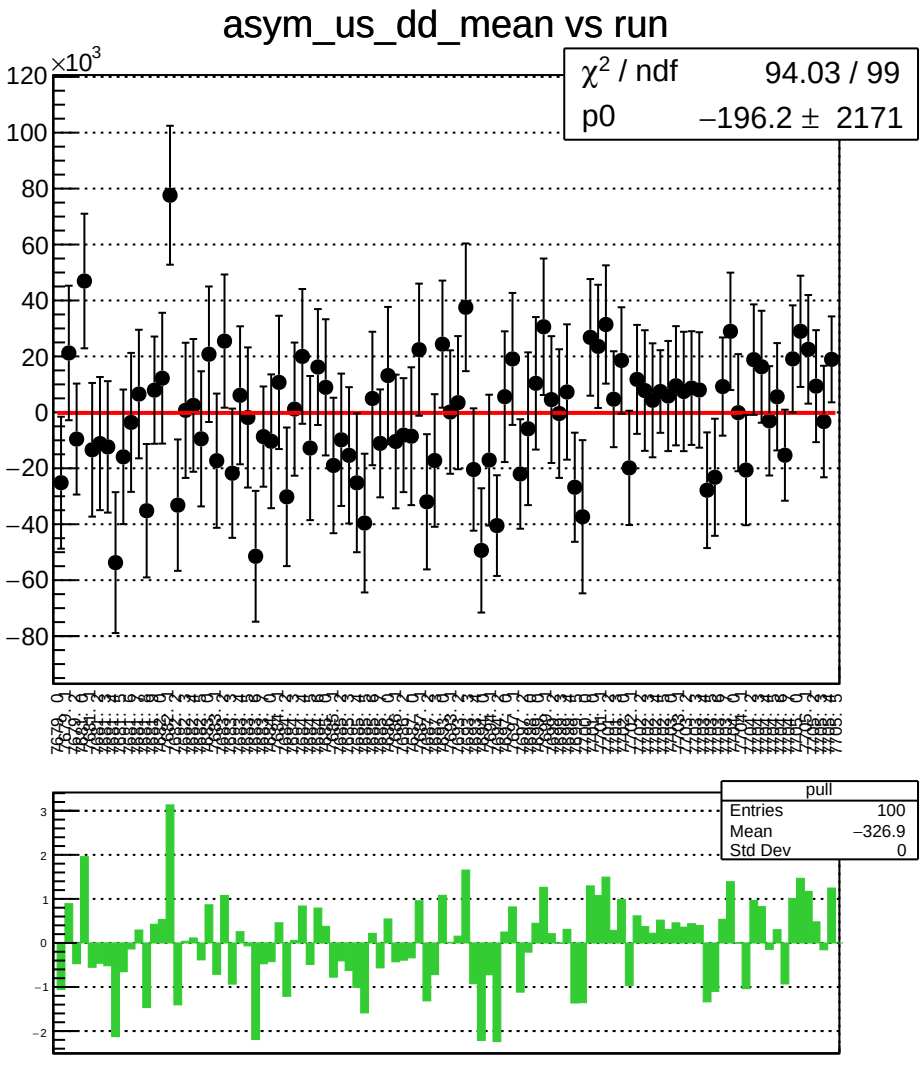

pull1D
Entries 100
Mean −0.006537
Std Dev 0.9648
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

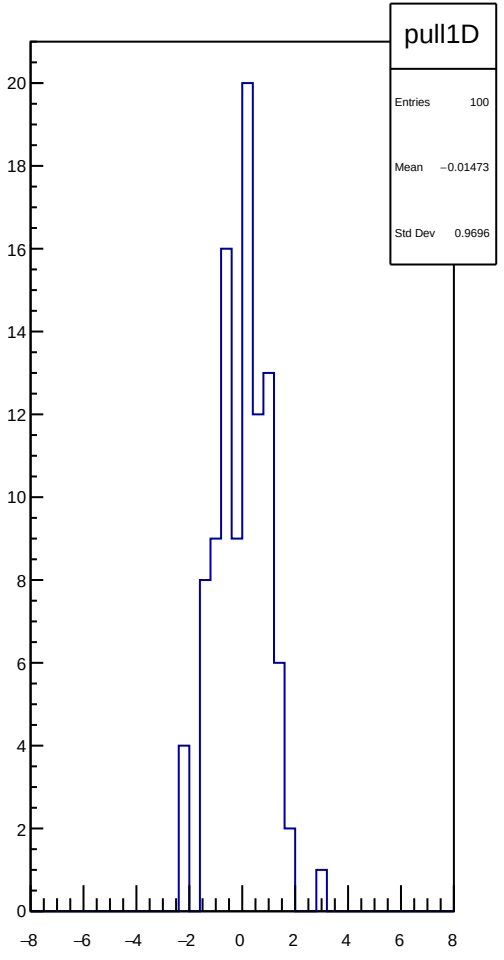

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 7193 / 99
p0 813.7 ± 0.5875
940
920
900
880
860
840
820
800
780
760
740

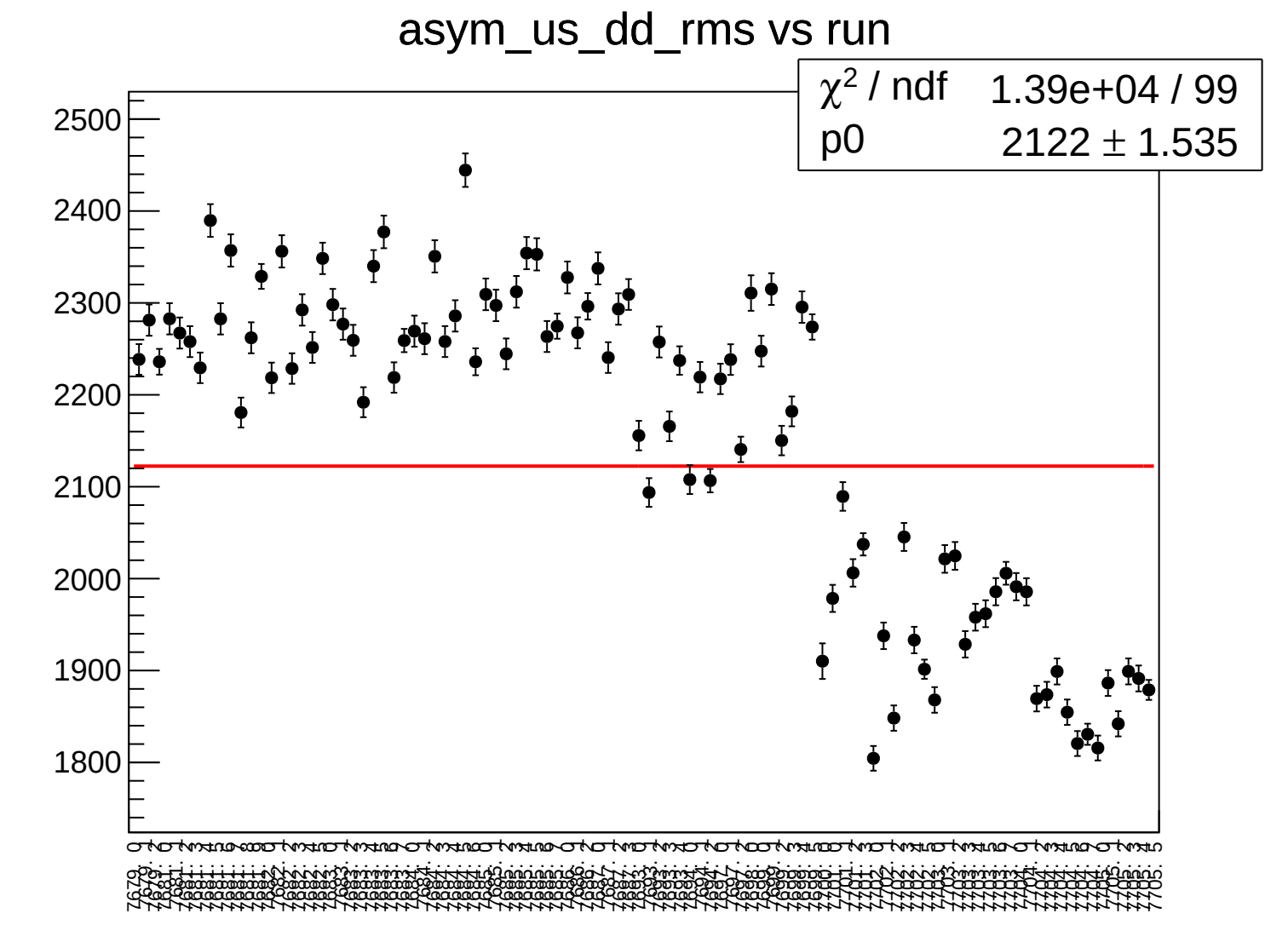

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 86.84 / 99
p0 −146 ± 2005
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −268.4
Std Dev 0
2
1
0
−1
−2

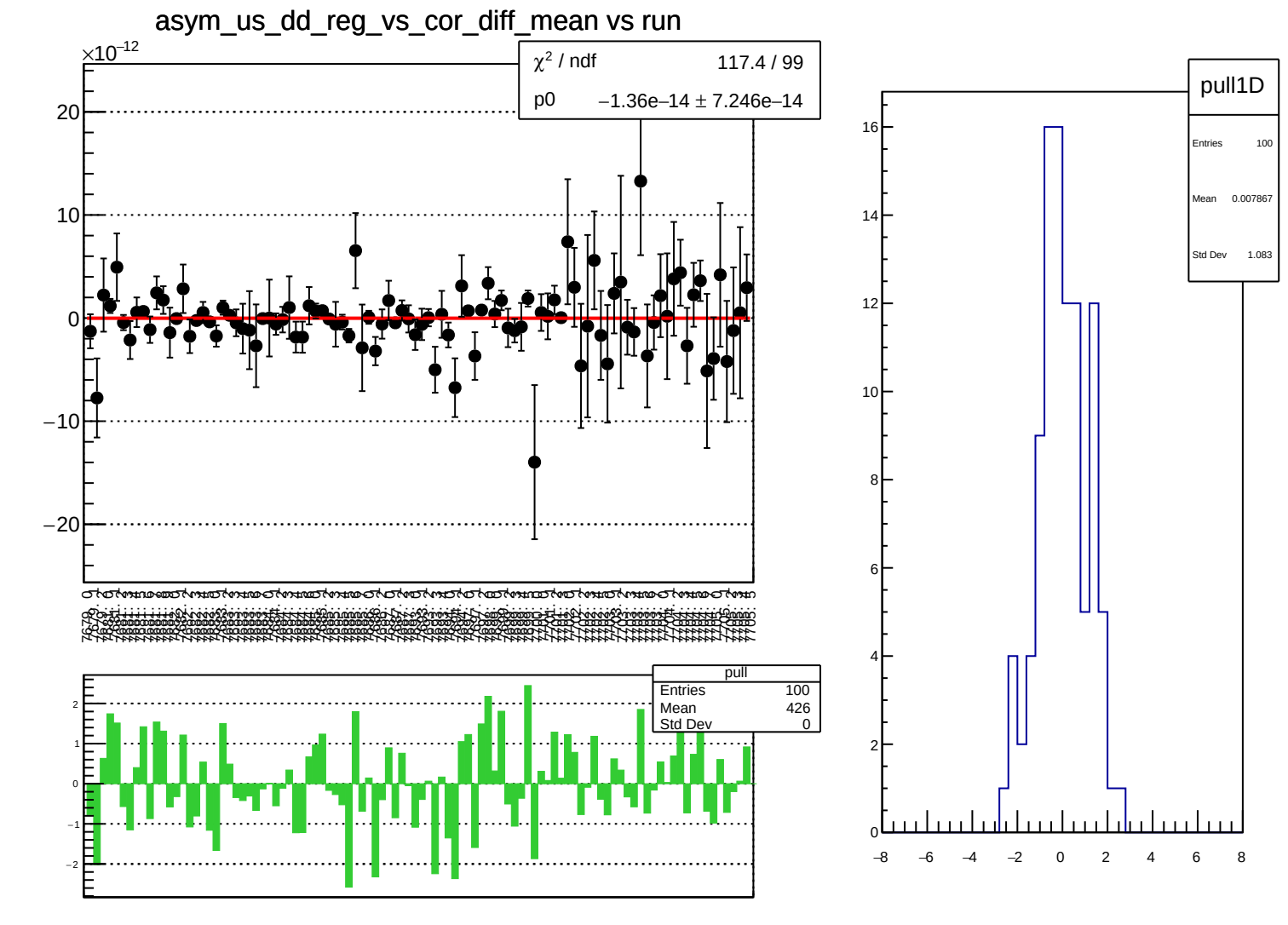

pull1D
Entries 100
Mean 0.01548
Std Dev 0.9317
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

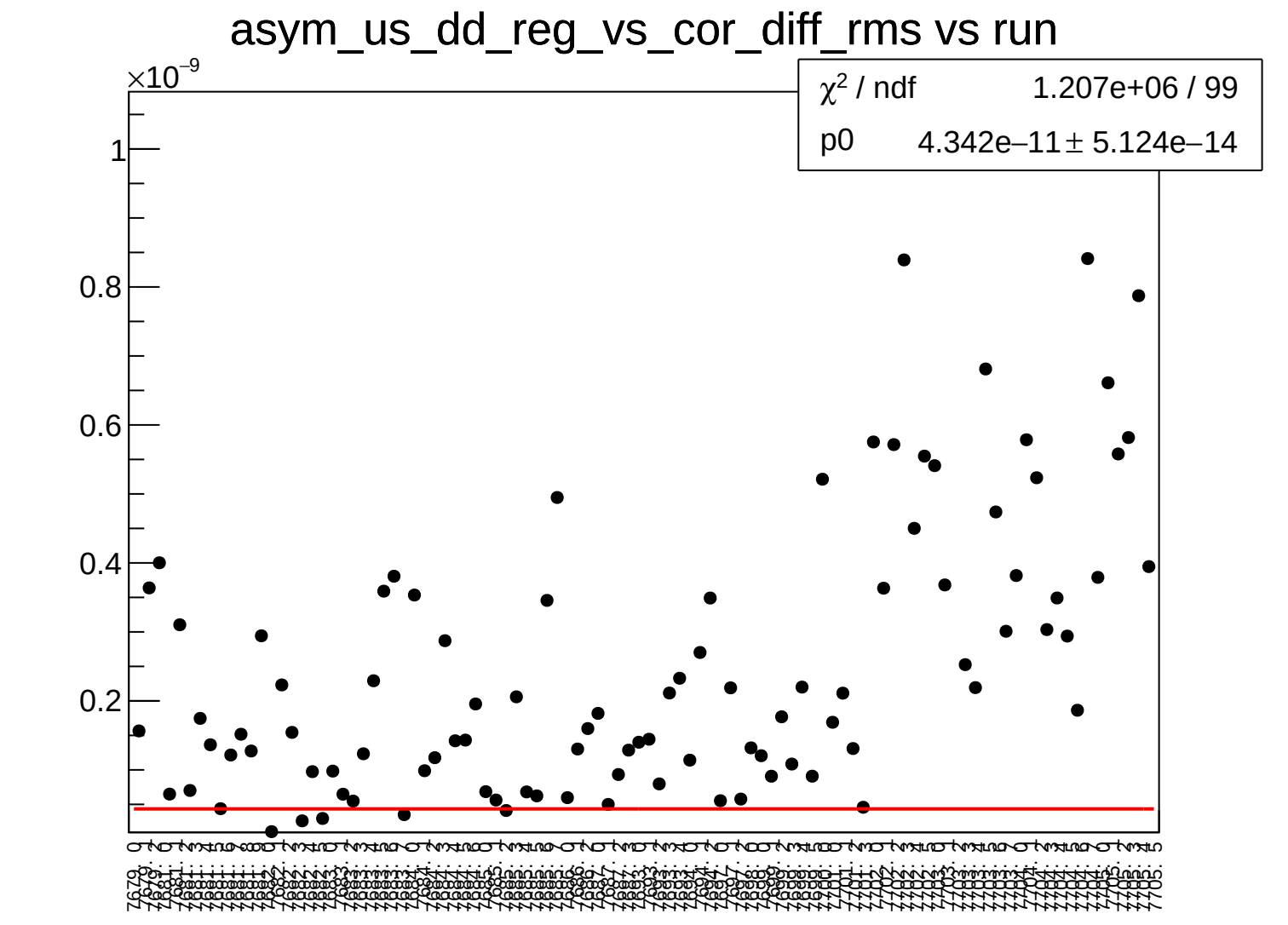

asym_us_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 1.551e+04 / 99
p0 1959 ± 1.417
2300
2200
2100
2000
1900
1800
1700
1600

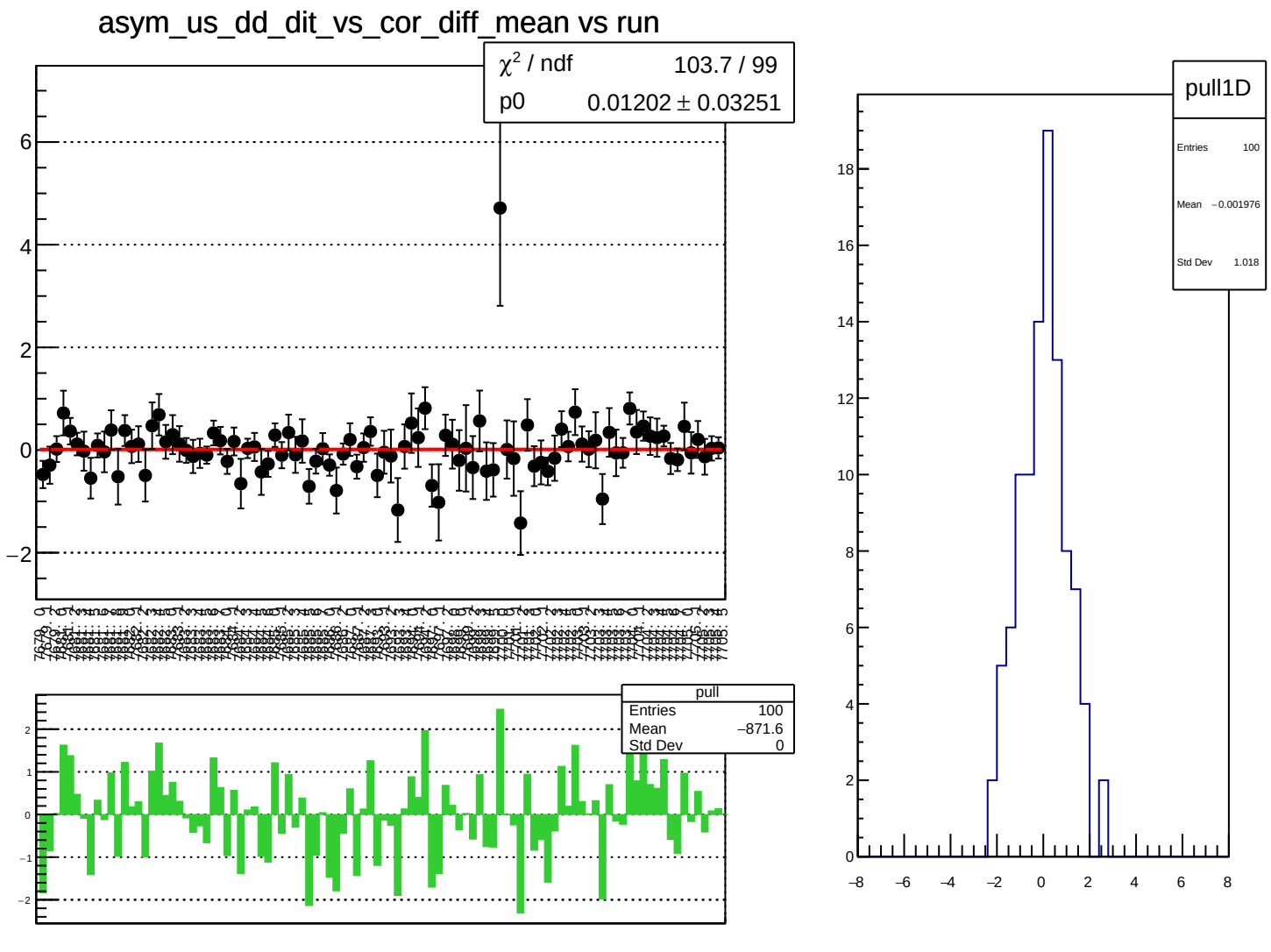

asym_us_dd_mean vs run
χ² / ndf 94.03 / 99
p0 −196.2 ± 2171
×10³
pull
Entries 100
Mean −326.9
Std Dev 0

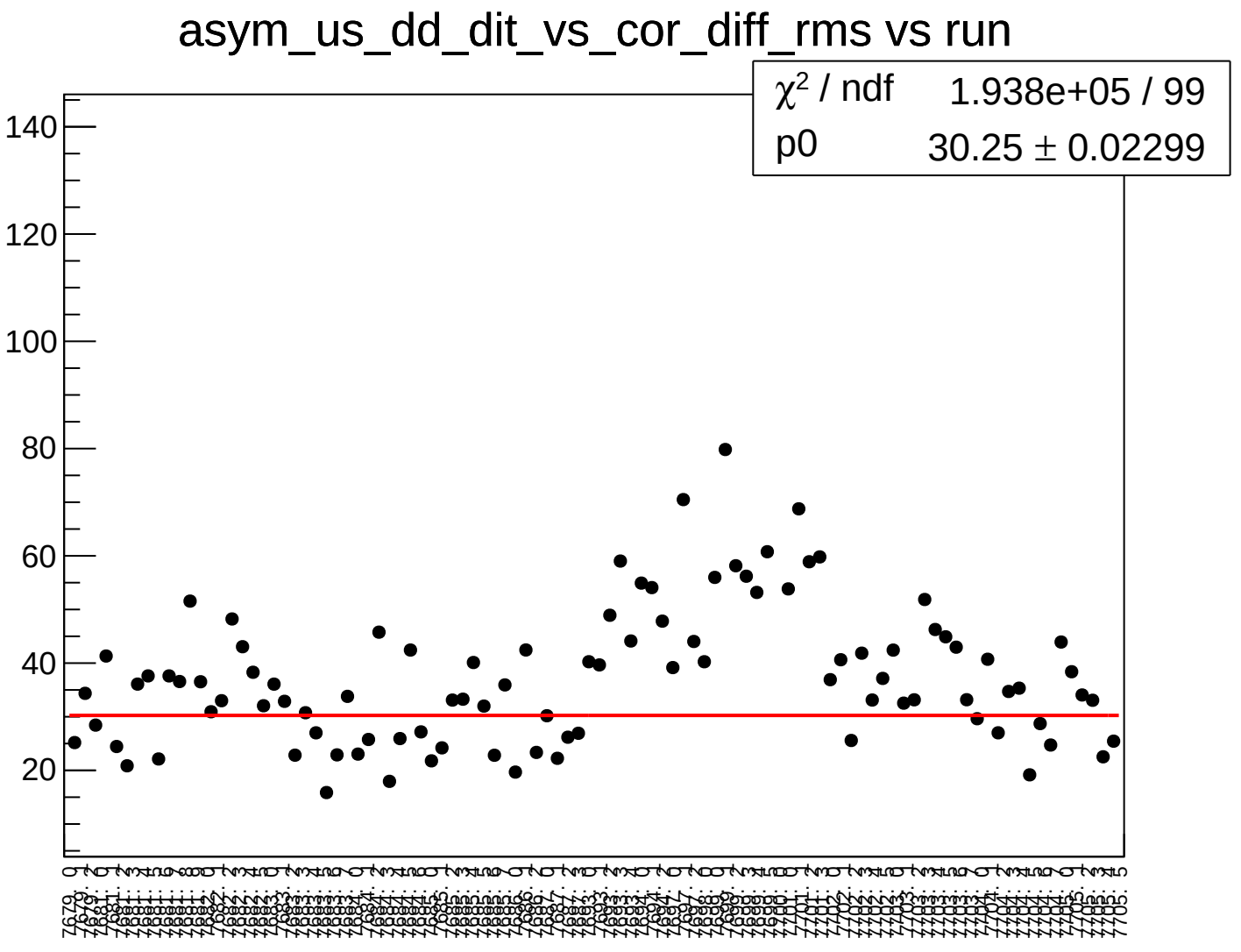

pull1D
Entries 100
Mean −0.01473
Std Dev 0.9696

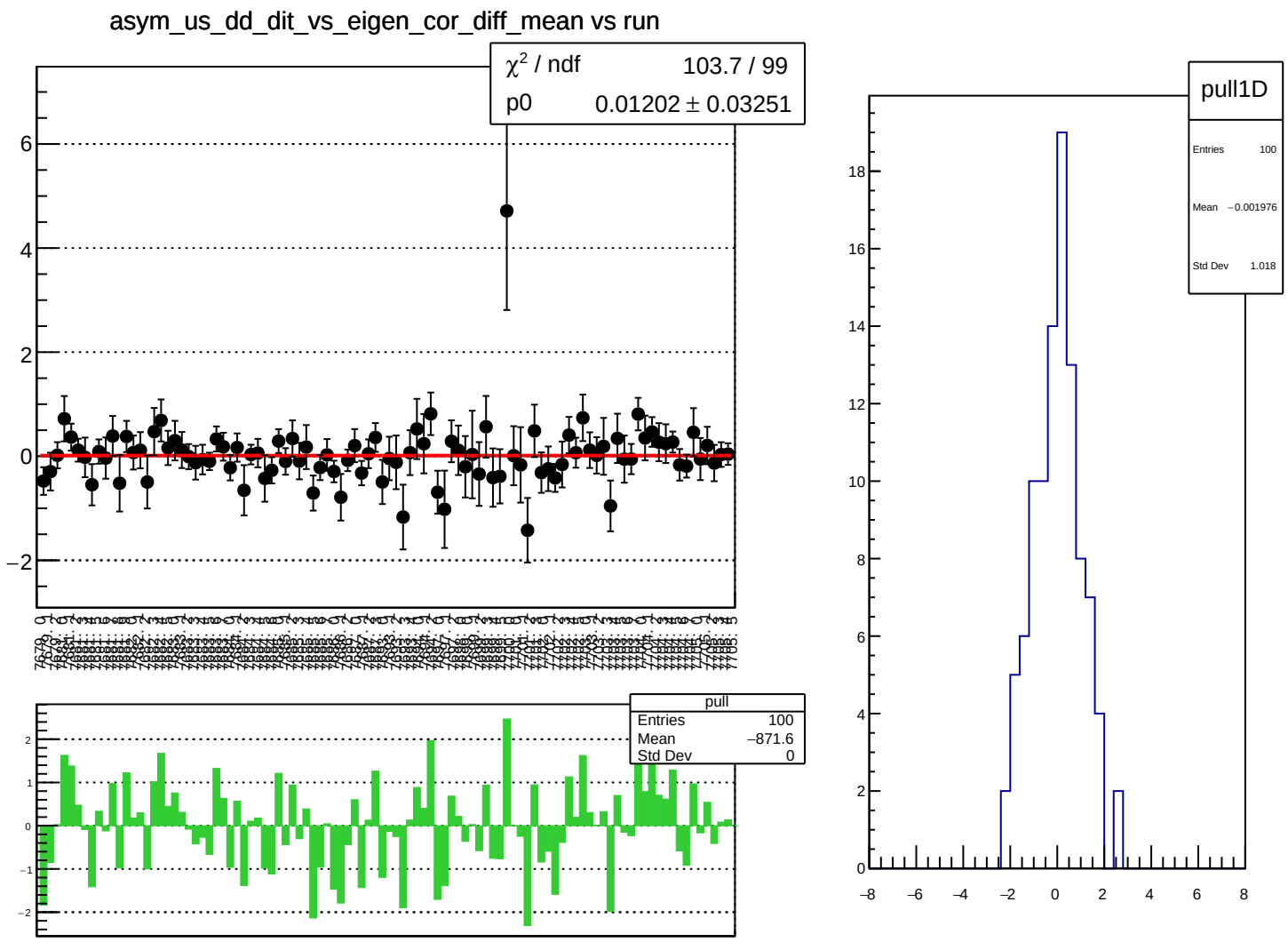

asym_us_dd_rms vs run
χ² / ndf 1.39e+04 / 99
p0 2122 ± 1.535
2500
2400
2300
2200
2100
2000
1900
1800

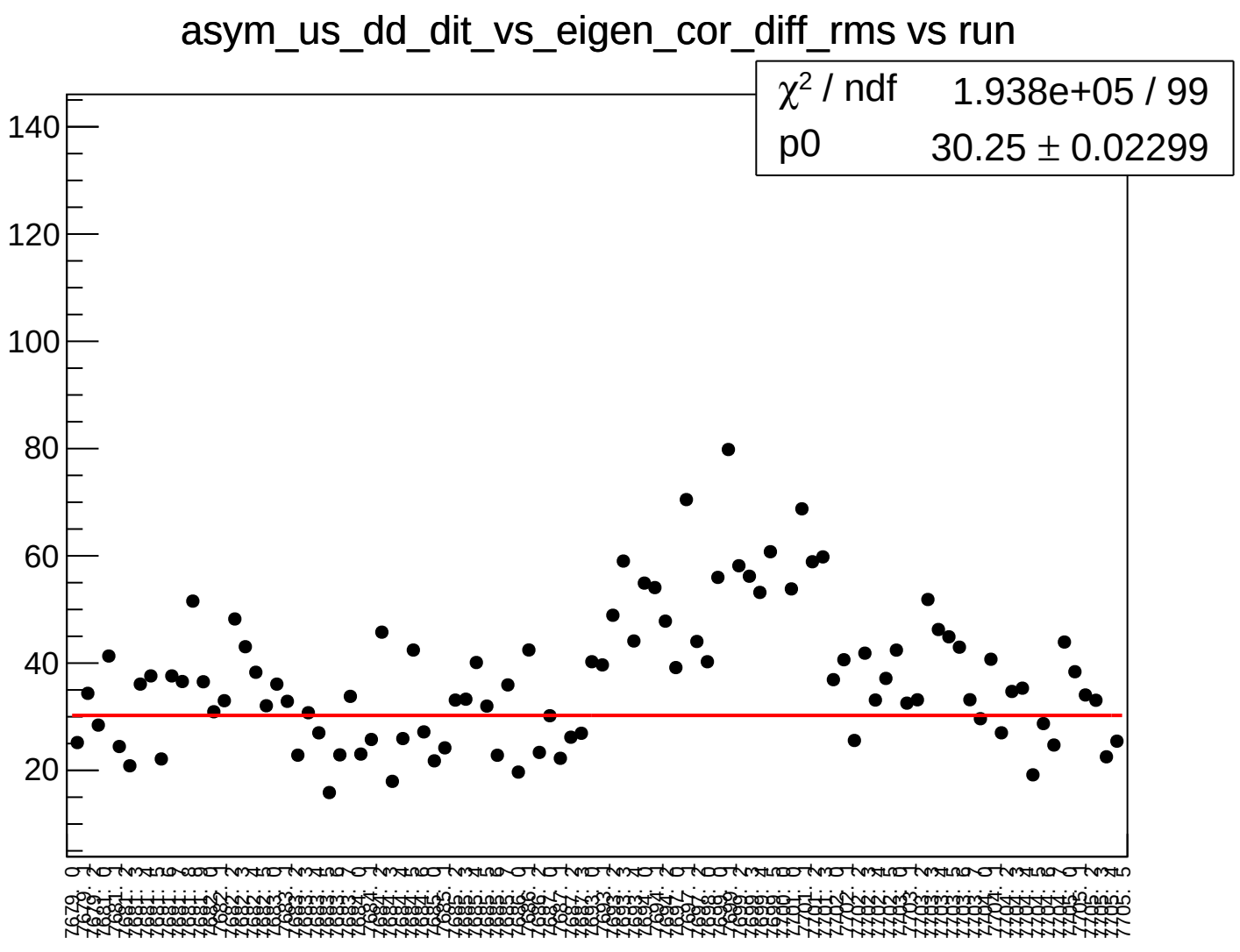

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 117.4 / 99
p0 −1.36e−14 ± 7.246e−14
pull
Entries 100
Mean 426
Std Dev 0
pull1D
Entries 100
Mean 0.007867
Std Dev 1.083

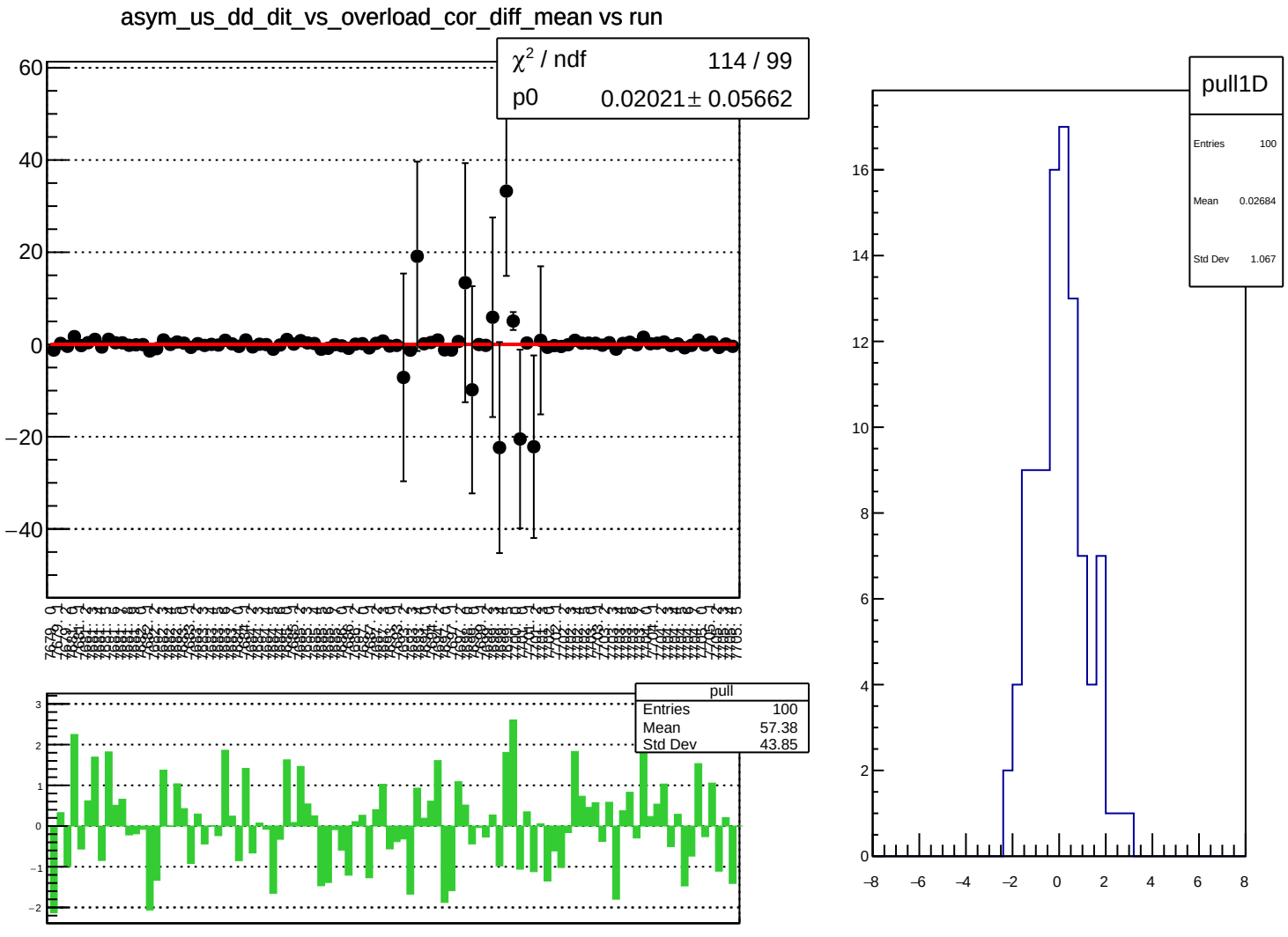

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.207e+06 / 99
p0 4.342e−11 ± 5.124e−14
1
0.8
0.6
0.4
0.2

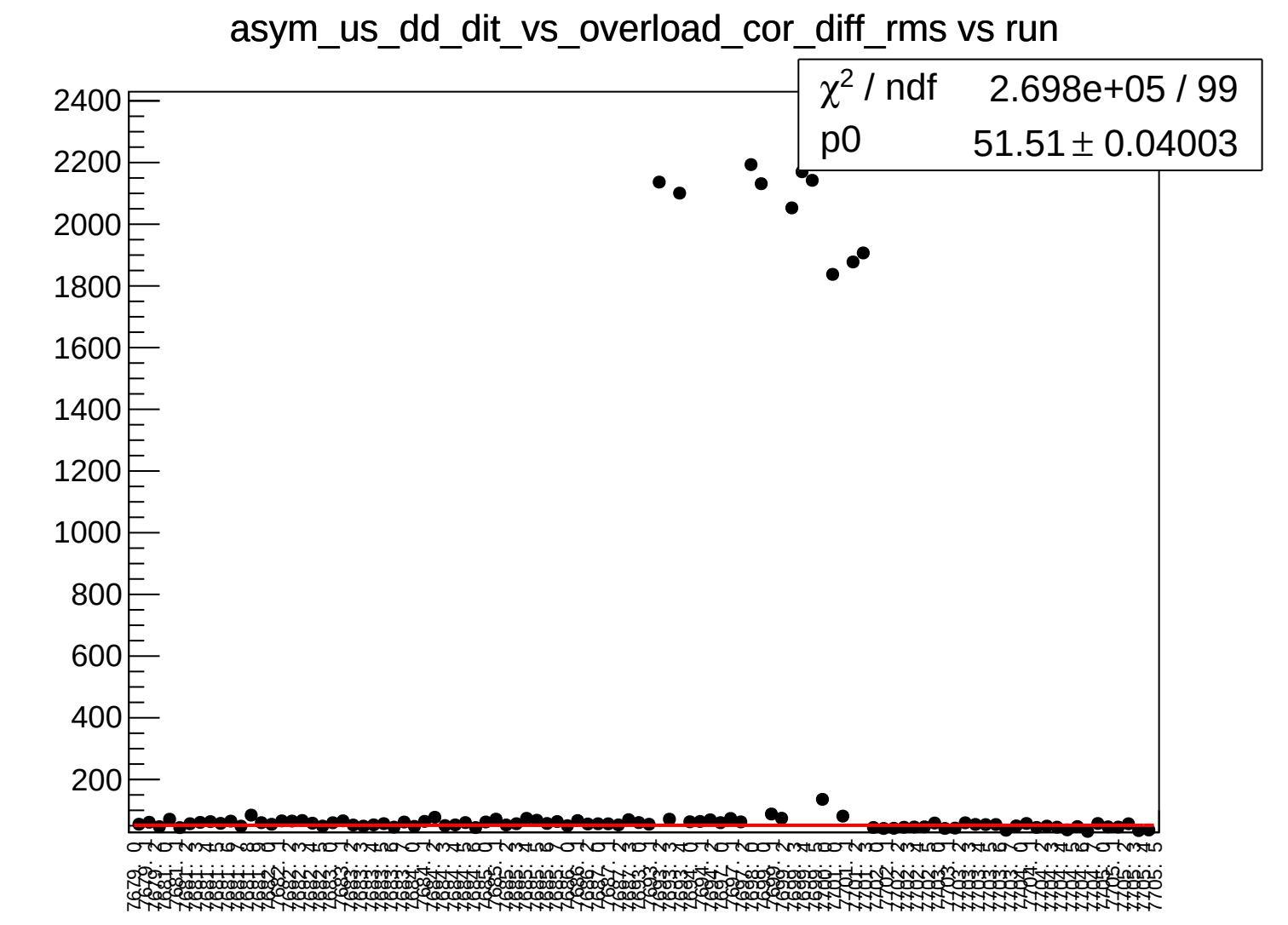

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 103.7 / 99
p0 0.01202 ± 0.03251
pull
Entries 100
Mean −871.6
Std Dev 0
pull1D
Entries 100
Mean −0.001976
Std Dev 1.018

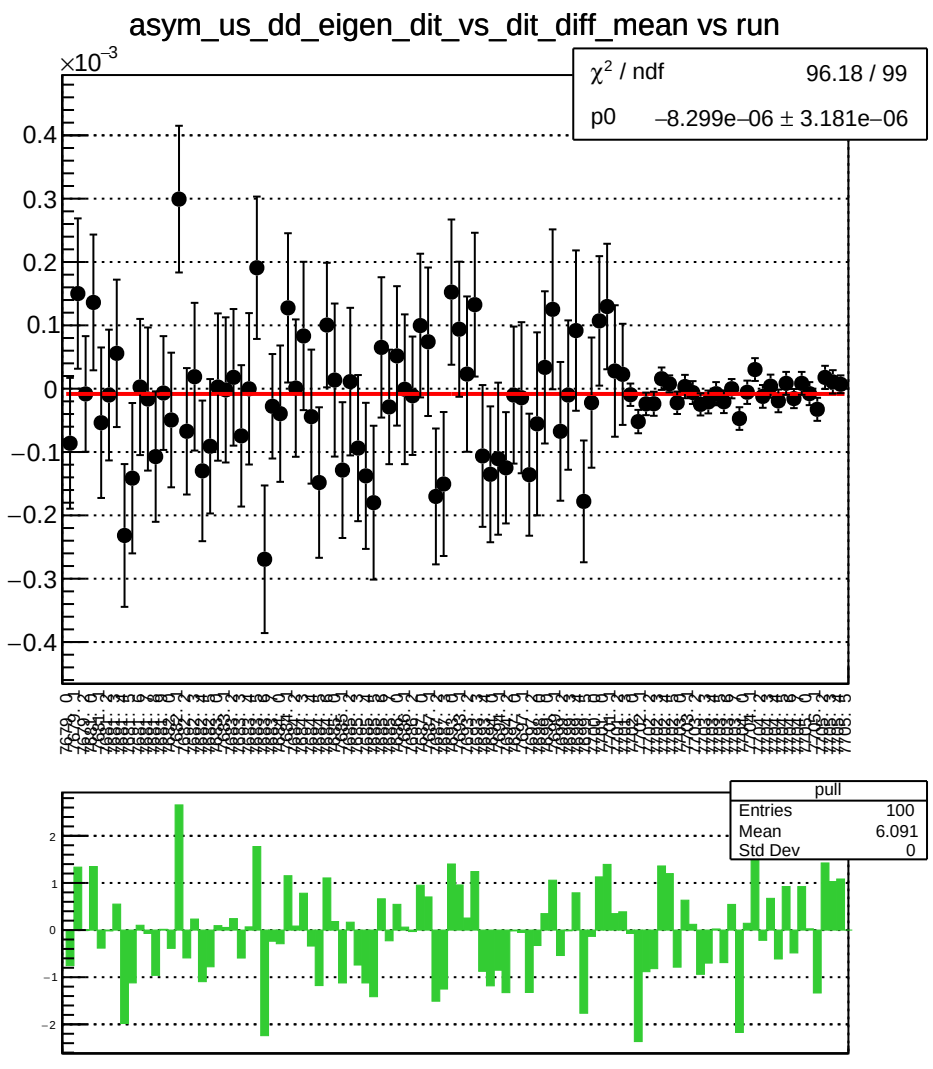

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.938e+05 / 99
p0 30.25 ± 0.02299
140
120
100
80
60
40
20

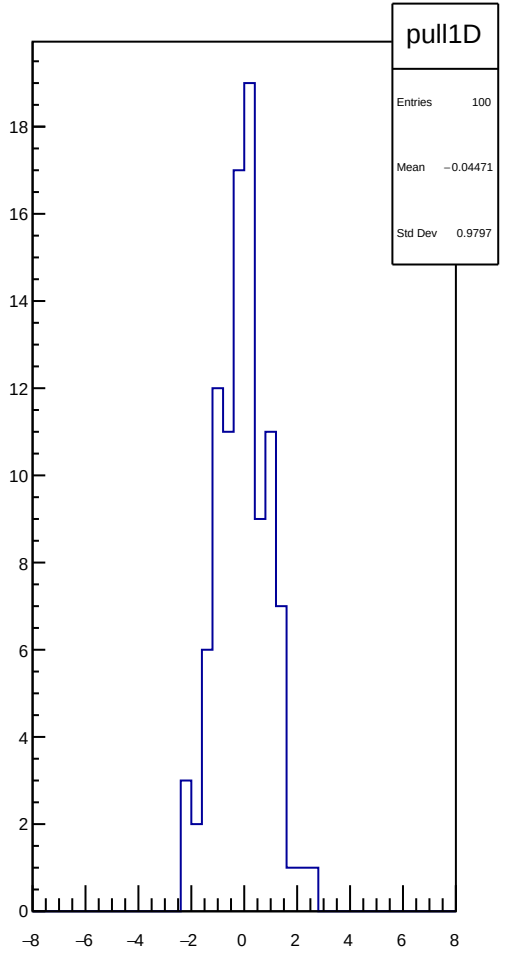

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.7 / 99
p0 0.01202 ± 0.03251
pull
Entries 100
Mean −871.6
Std Dev 0
pull1D
Entries 100
Mean −0.001976
Std Dev 1.018

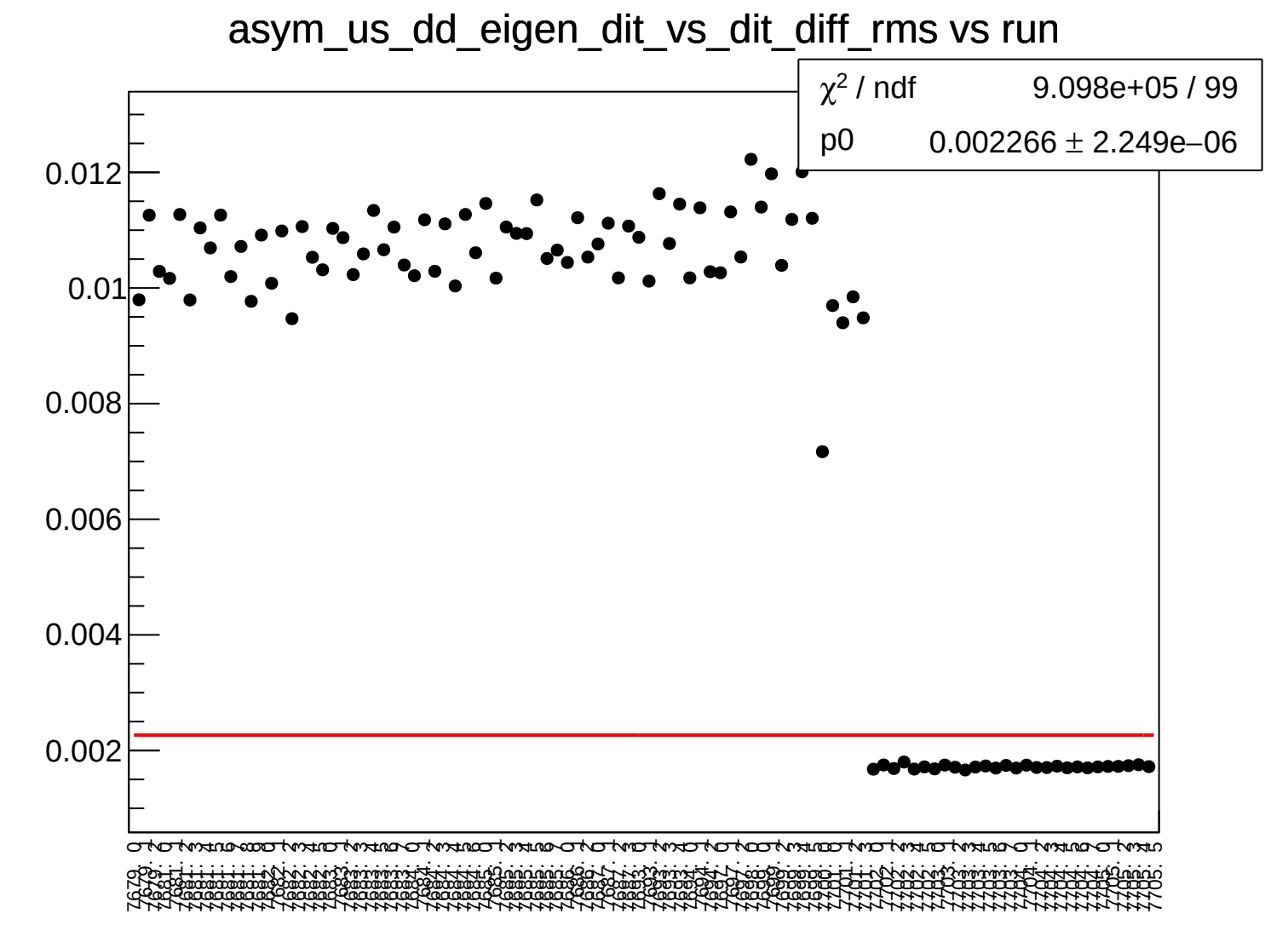

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.938e+05 / 99
p0 30.25 ± 0.02299
140
120
100
80
60
40
20

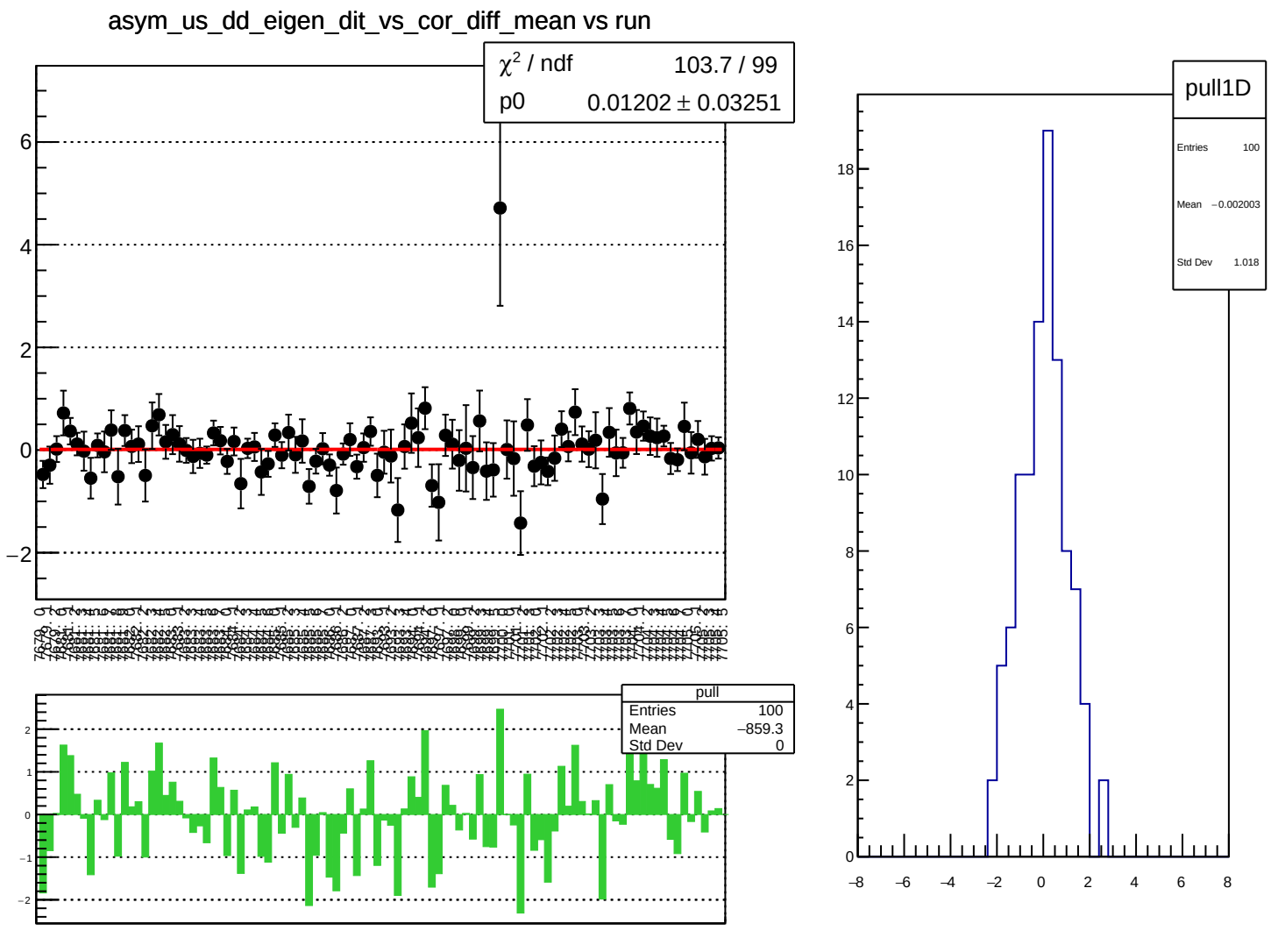

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 114 / 99
p0 0.02021 ± 0.05662
pull
Entries 100
Mean 57.38
Std Dev 43.85
pull1D
Entries 100
Mean 0.02684
Std Dev 1.067

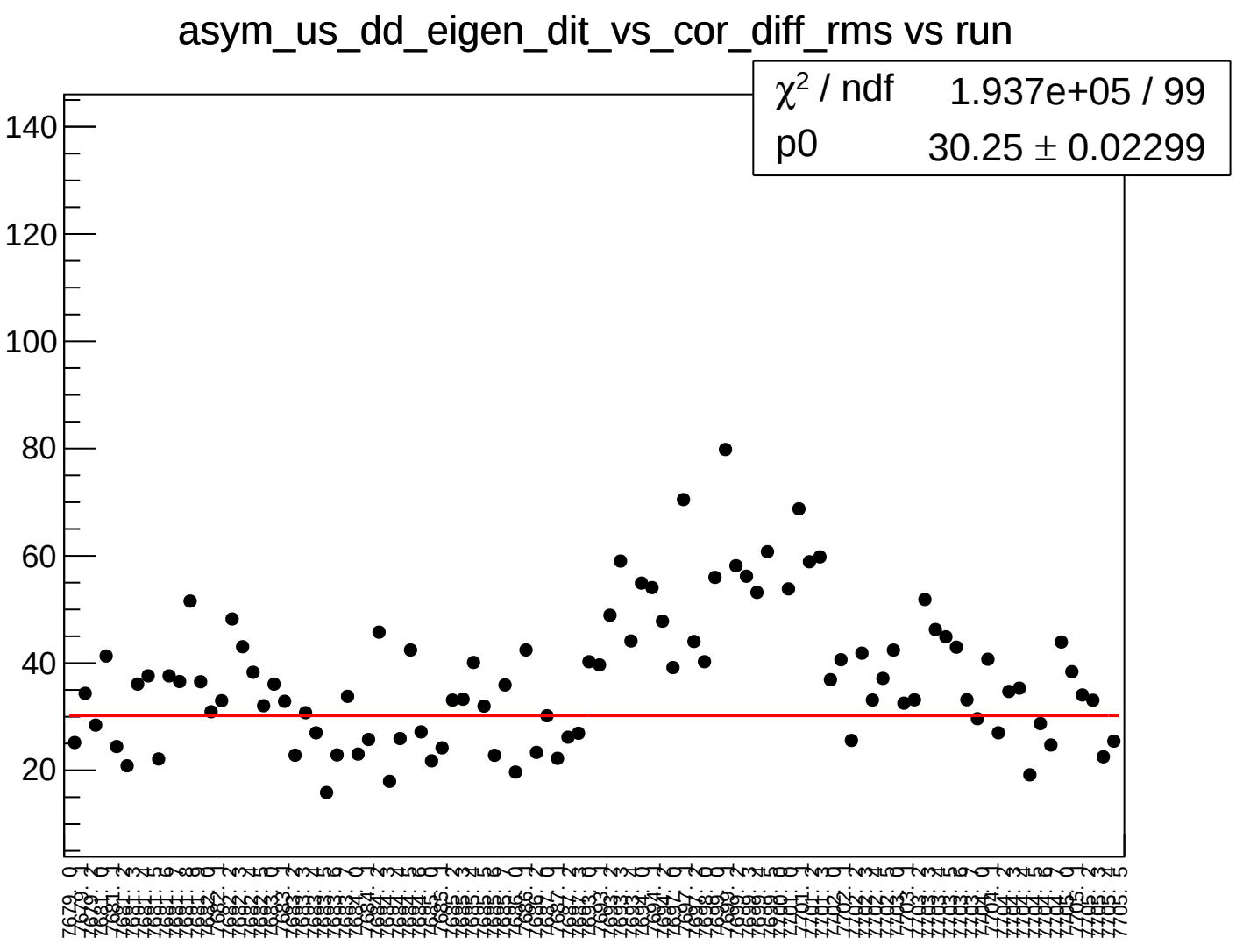

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ^2 / ndf 2.698e+05 / 99
p0 51.51 ± 0.04003
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

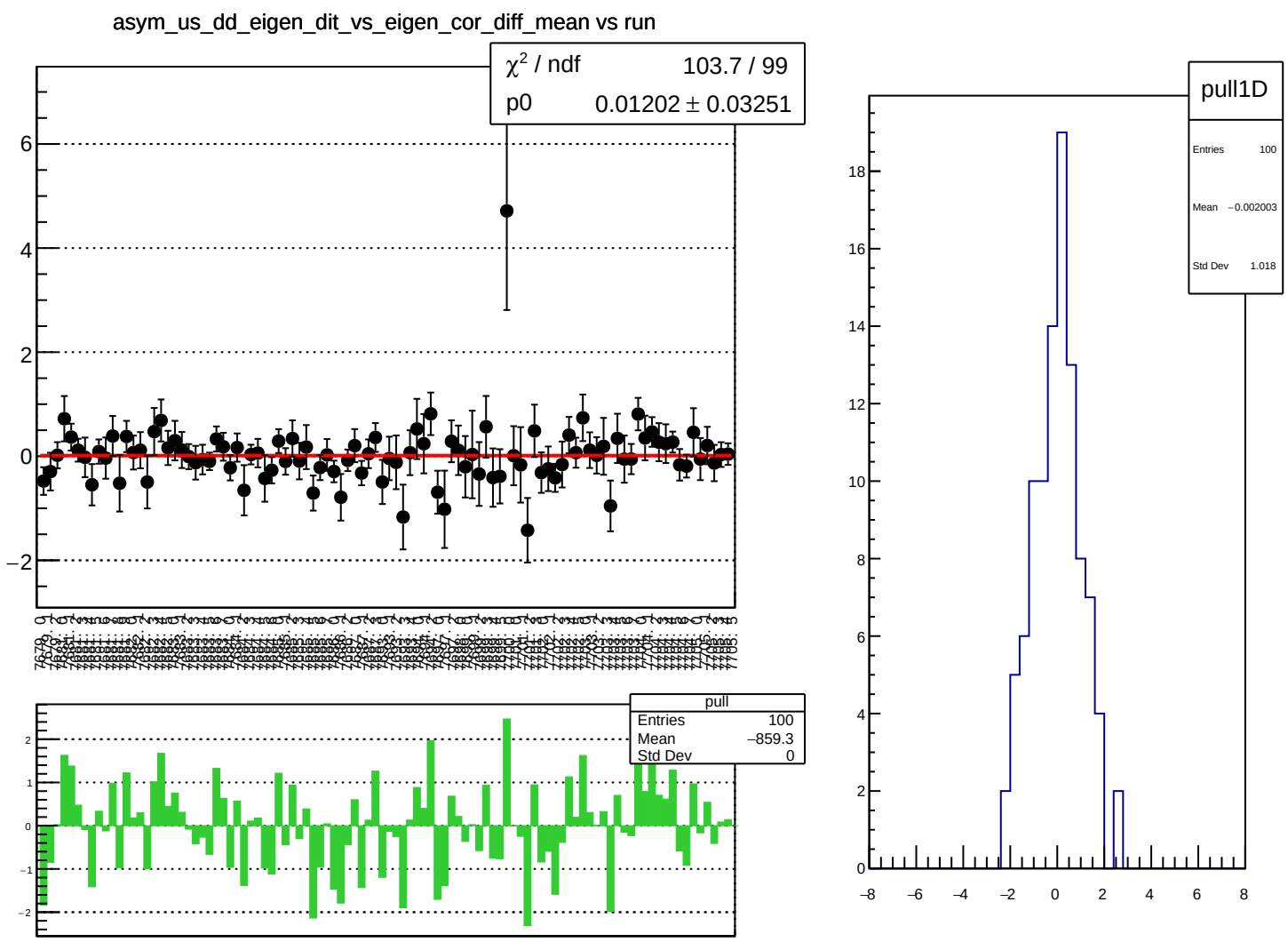

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.18 / 99
p0 −8.299e−06 ± 3.181e−06
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull
Entries 100
Mean 6.091
Std Dev 0
2
1
0
−1
−2

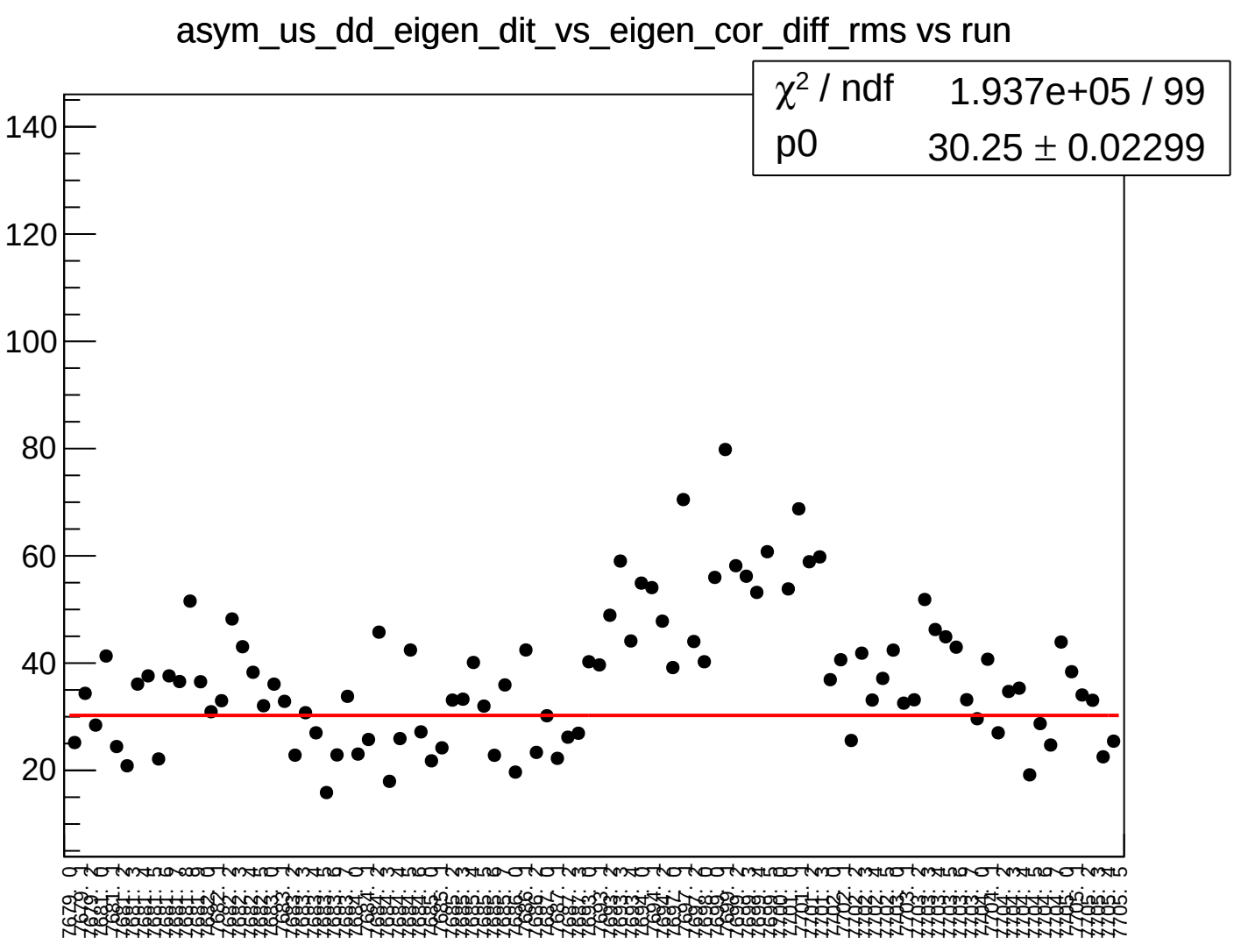

pull1D
Entries 100
Mean −0.04471
Std Dev 0.9797
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

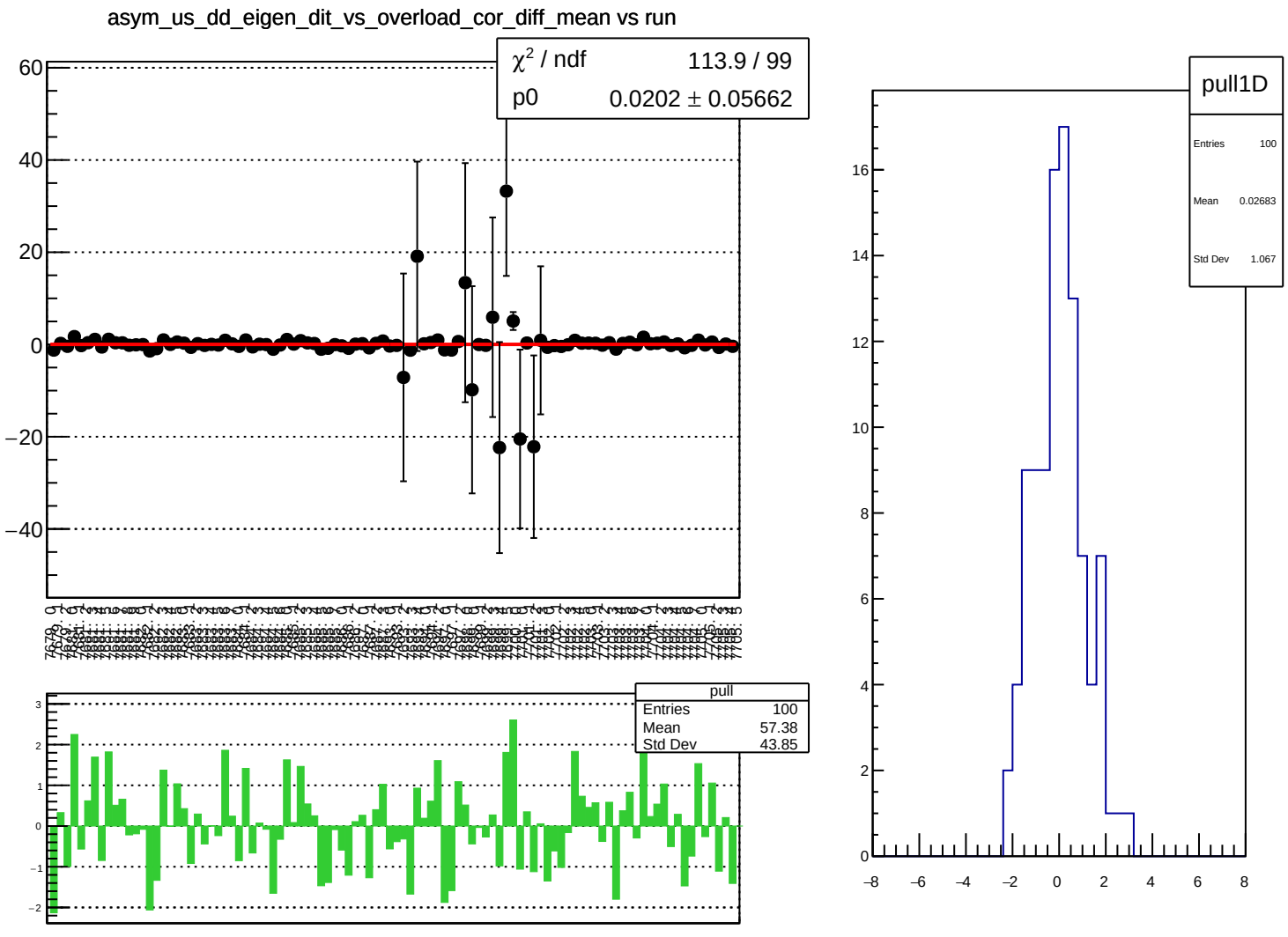

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.098e+05 / 99
p0 0.002266 ± 2.249e−06
0.012
0.01
0.008
0.006
0.004
0.002

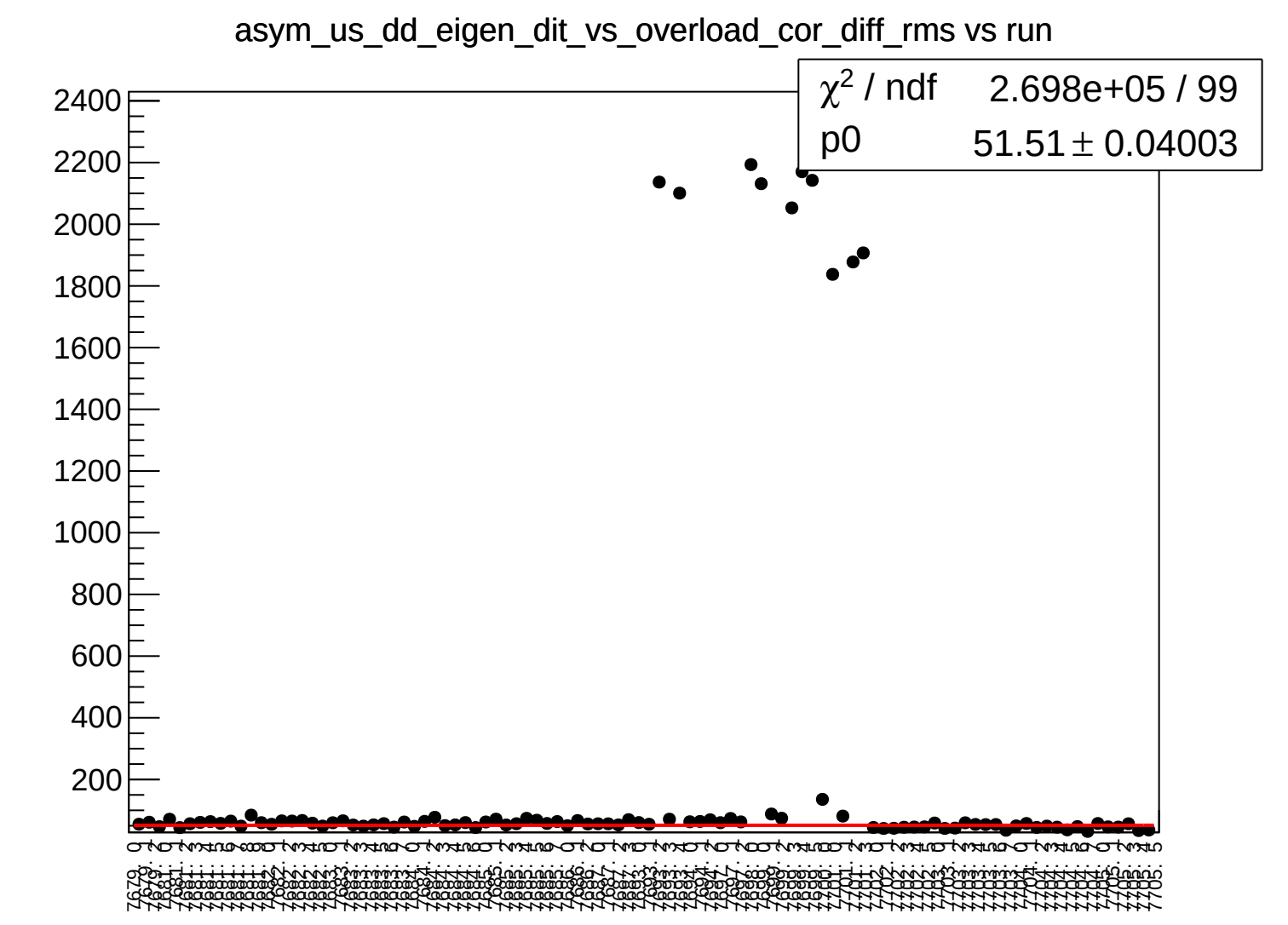

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.7 / 99
p0 0.01202 ± 0.03251
pull
Entries 100
Mean −859.3
Std Dev 0
pull1D
Entries 100
Mean −0.002003
Std Dev 1.018

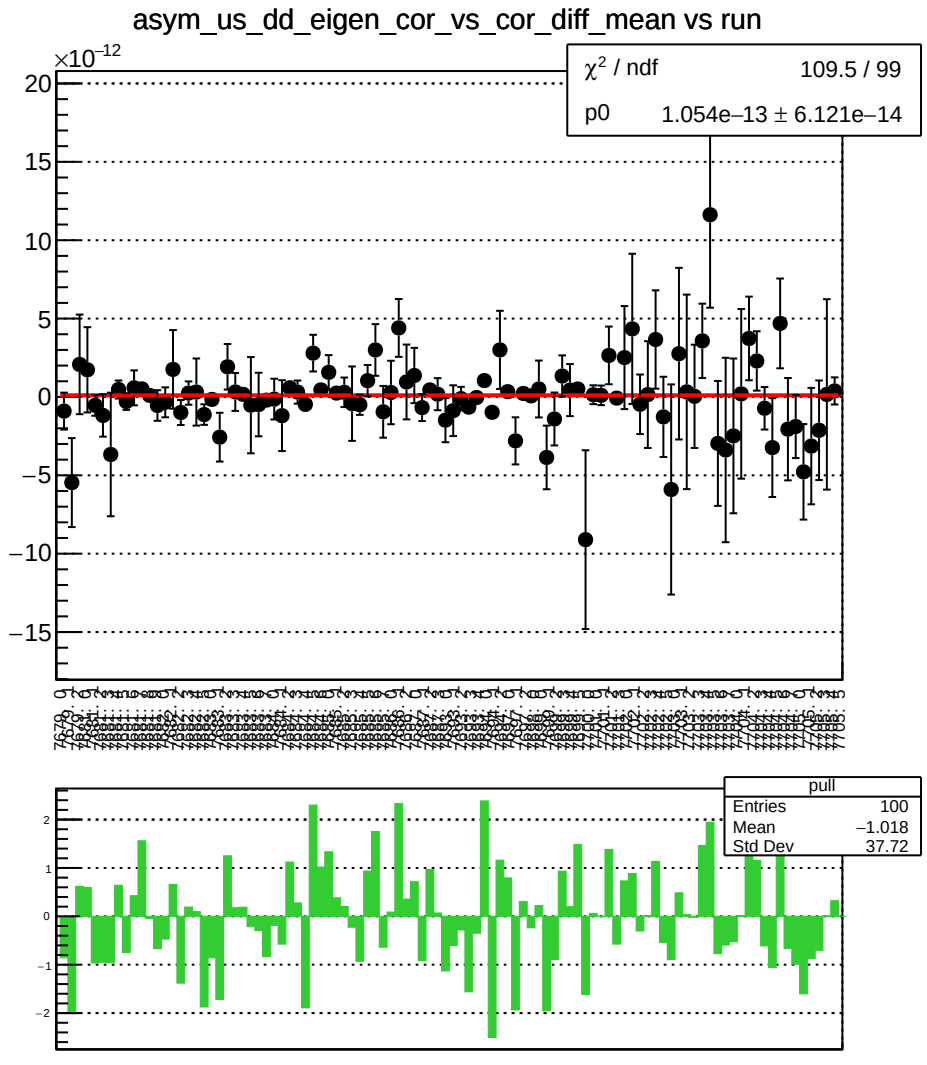

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.937e+05 / 99
p0 30.25 ± 0.02299
140
120
100
80
60
40
20

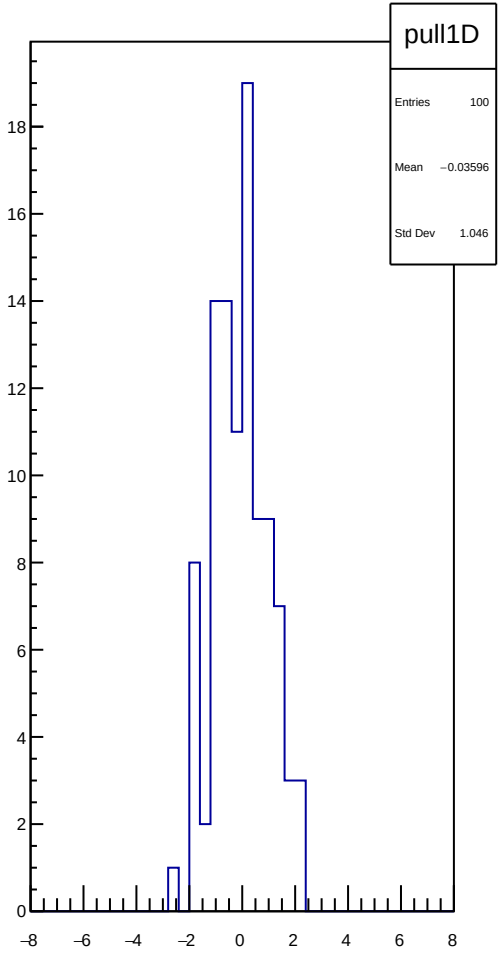

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.7 / 99
p0 0.01202 ± 0.03251
pull
Entries 100
Mean −859.3
Std Dev 0
pull1D
Entries 100
Mean −0.002003
Std Dev 1.018

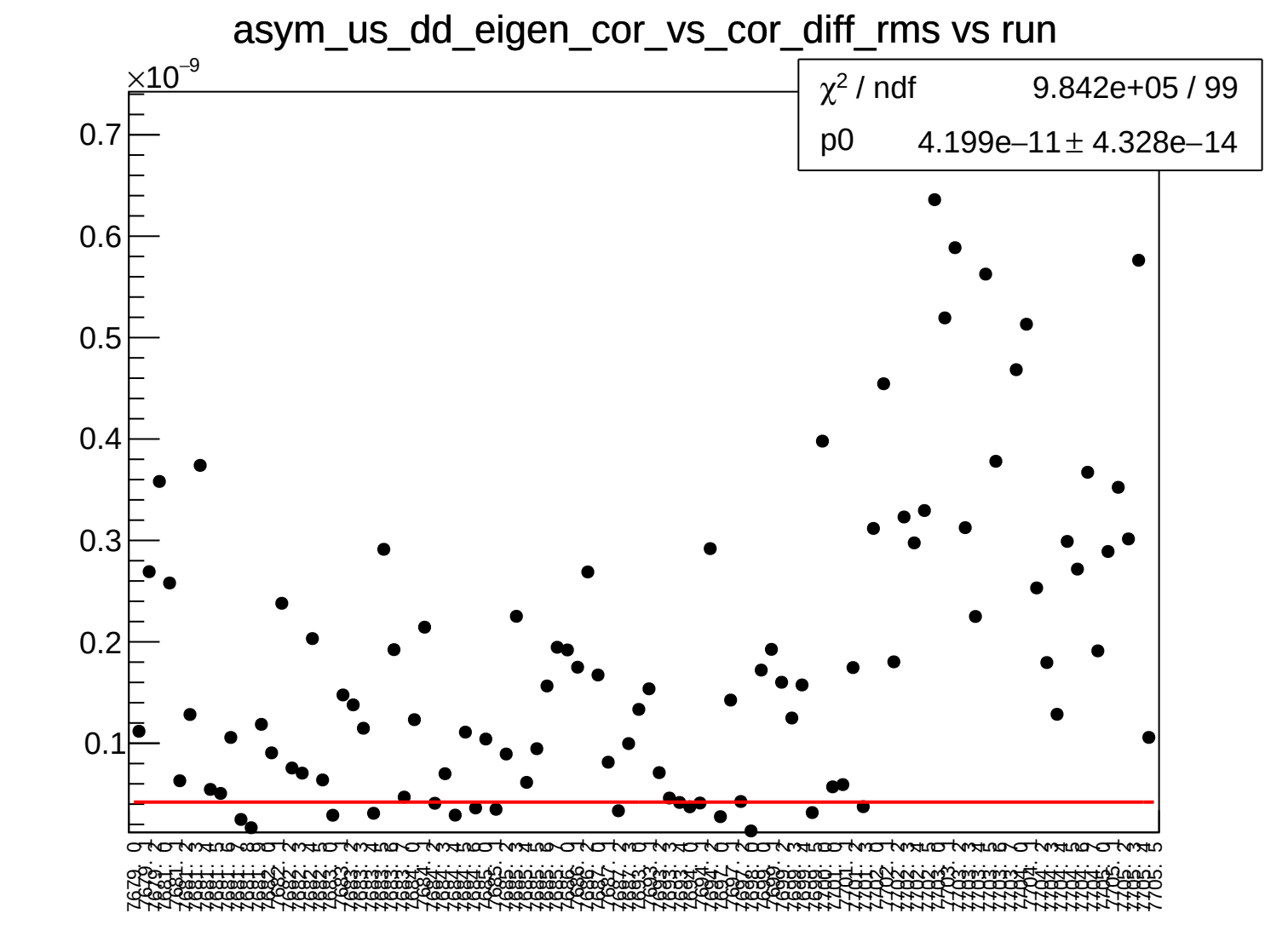

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.937e+05 / 99
p0 30.25 ± 0.02299
140
120
100
80
60
40
20

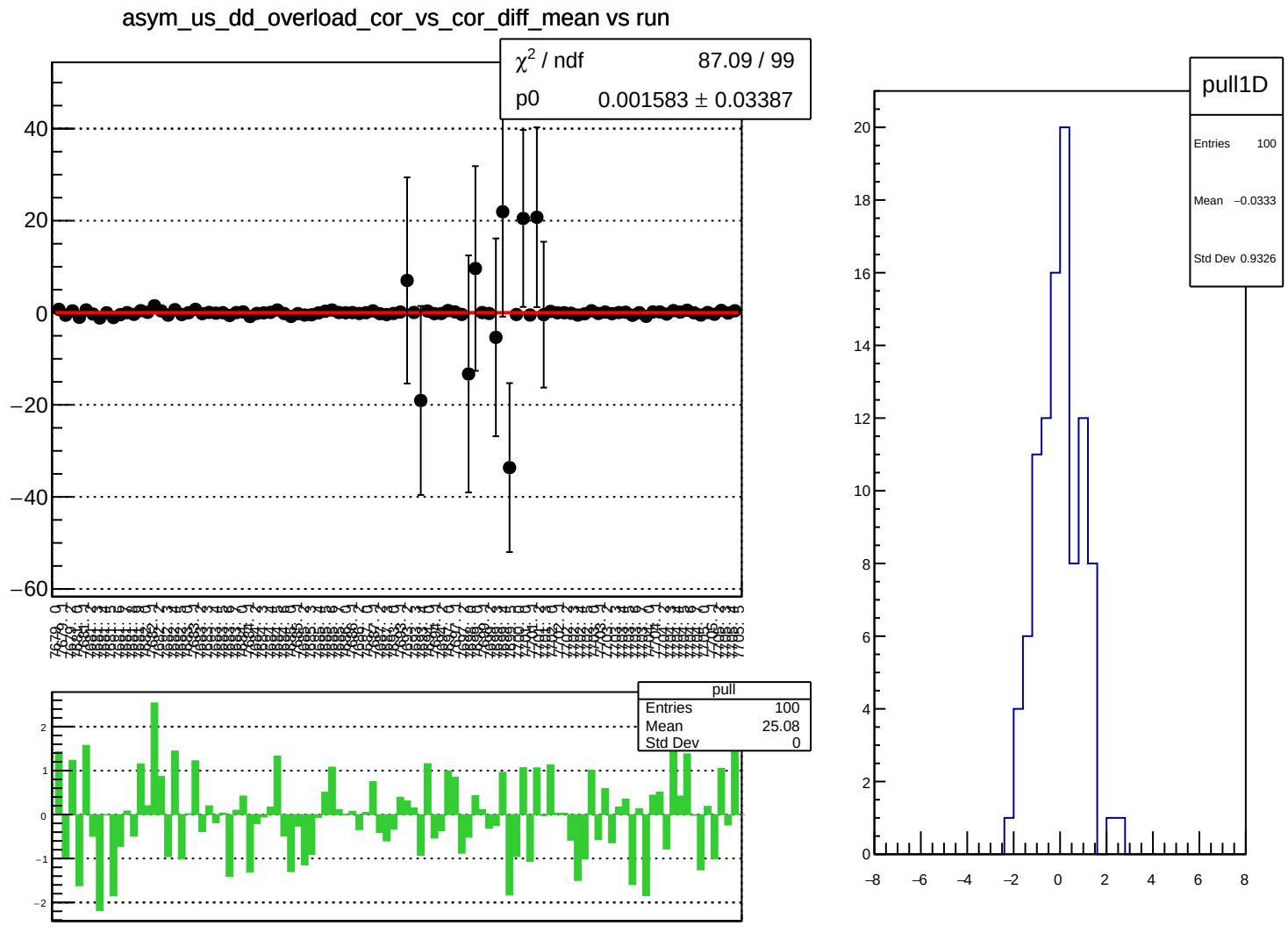

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 113.9 / 99
p0 0.0202 ± 0.05662
pull
Entries 100
Mean 57.38
Std Dev 43.85
pull1D
Entries 100
Mean 0.02683
Std Dev 1.067

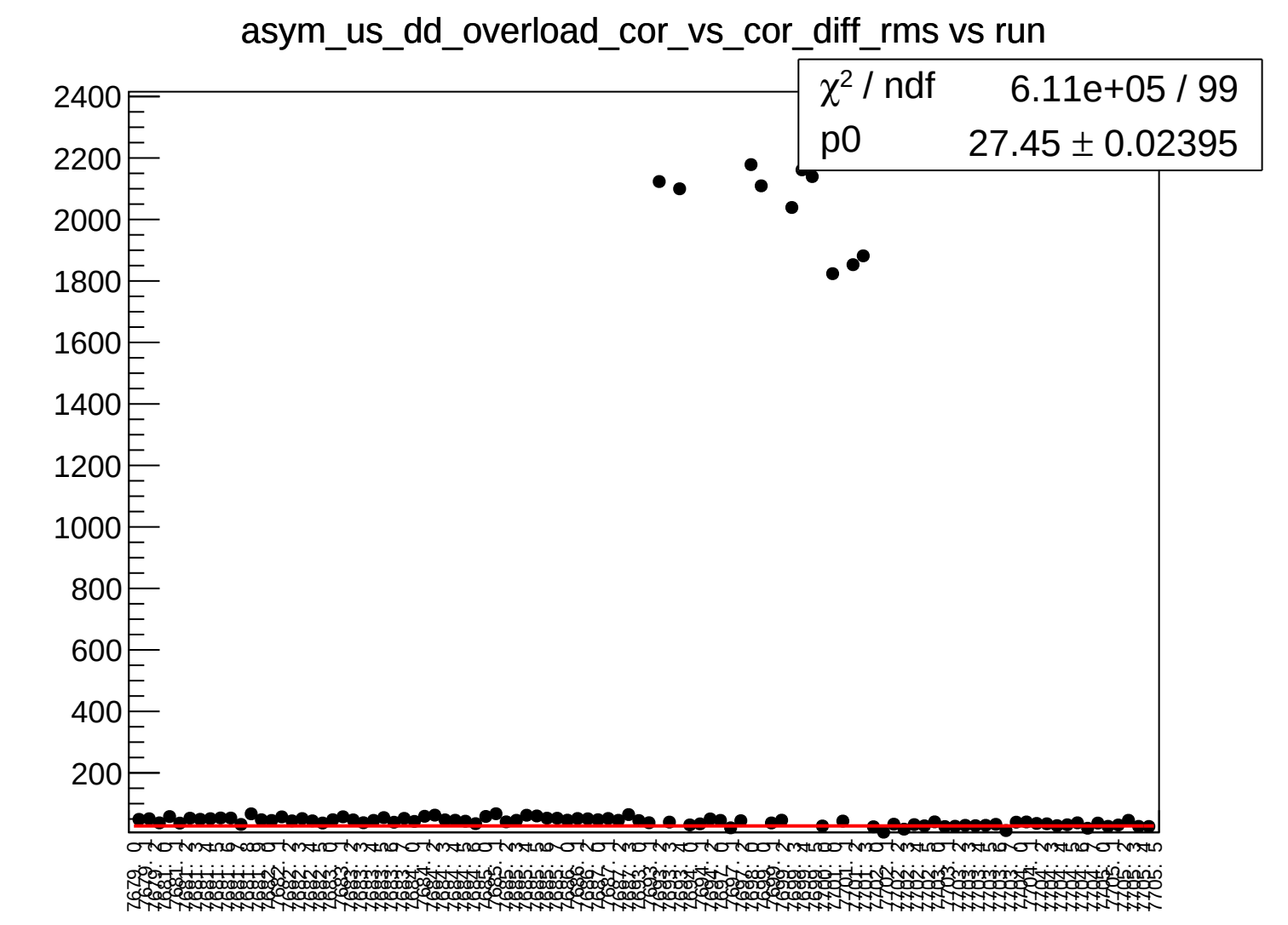

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.698e+05 / 99
p0 51.51 ± 0.04003
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

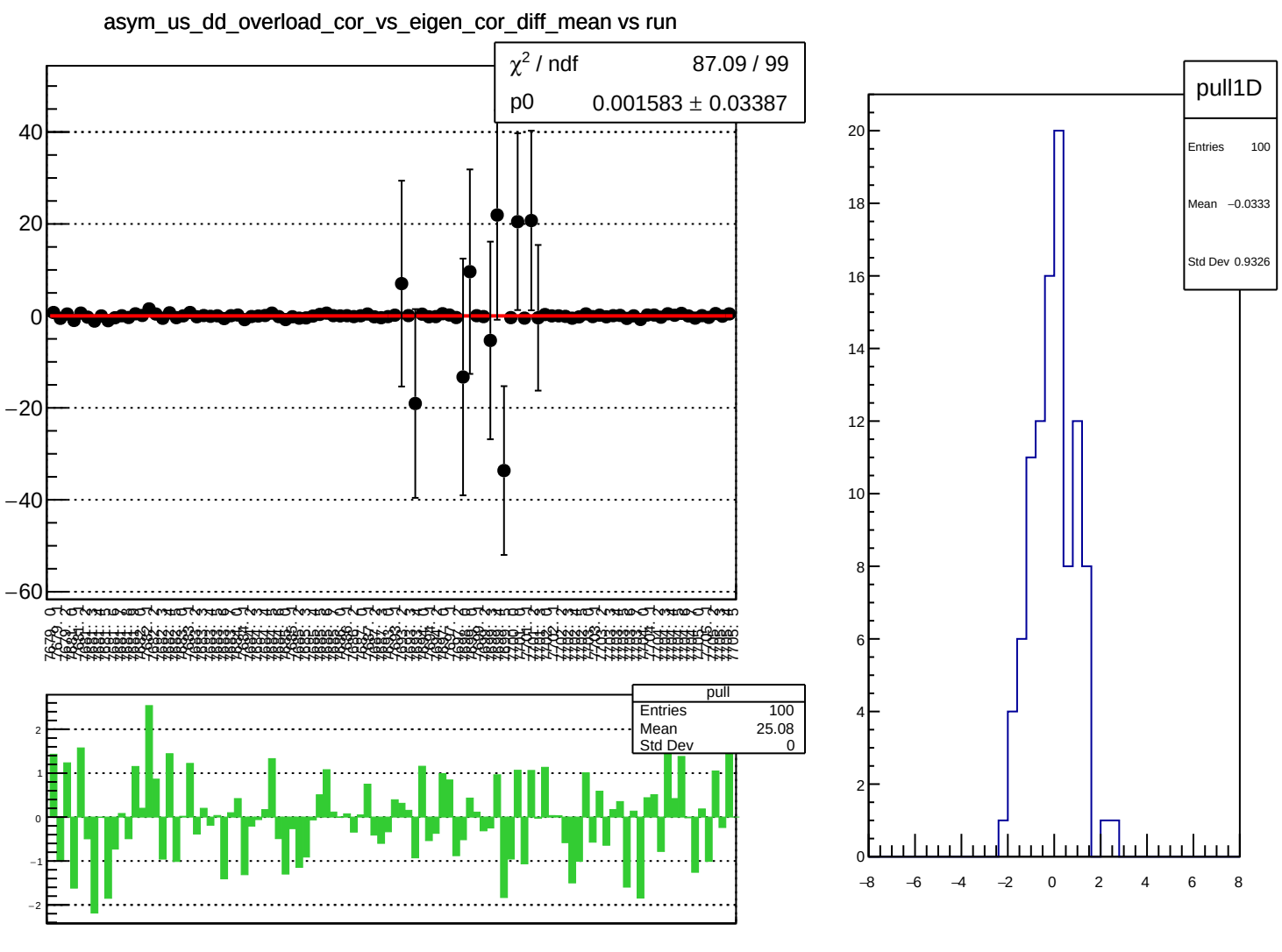

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 109.5 / 99
p0 1.054e−13 ± 6.121e−14
pull
Entries 100
Mean −1.018
Std Dev 37.72

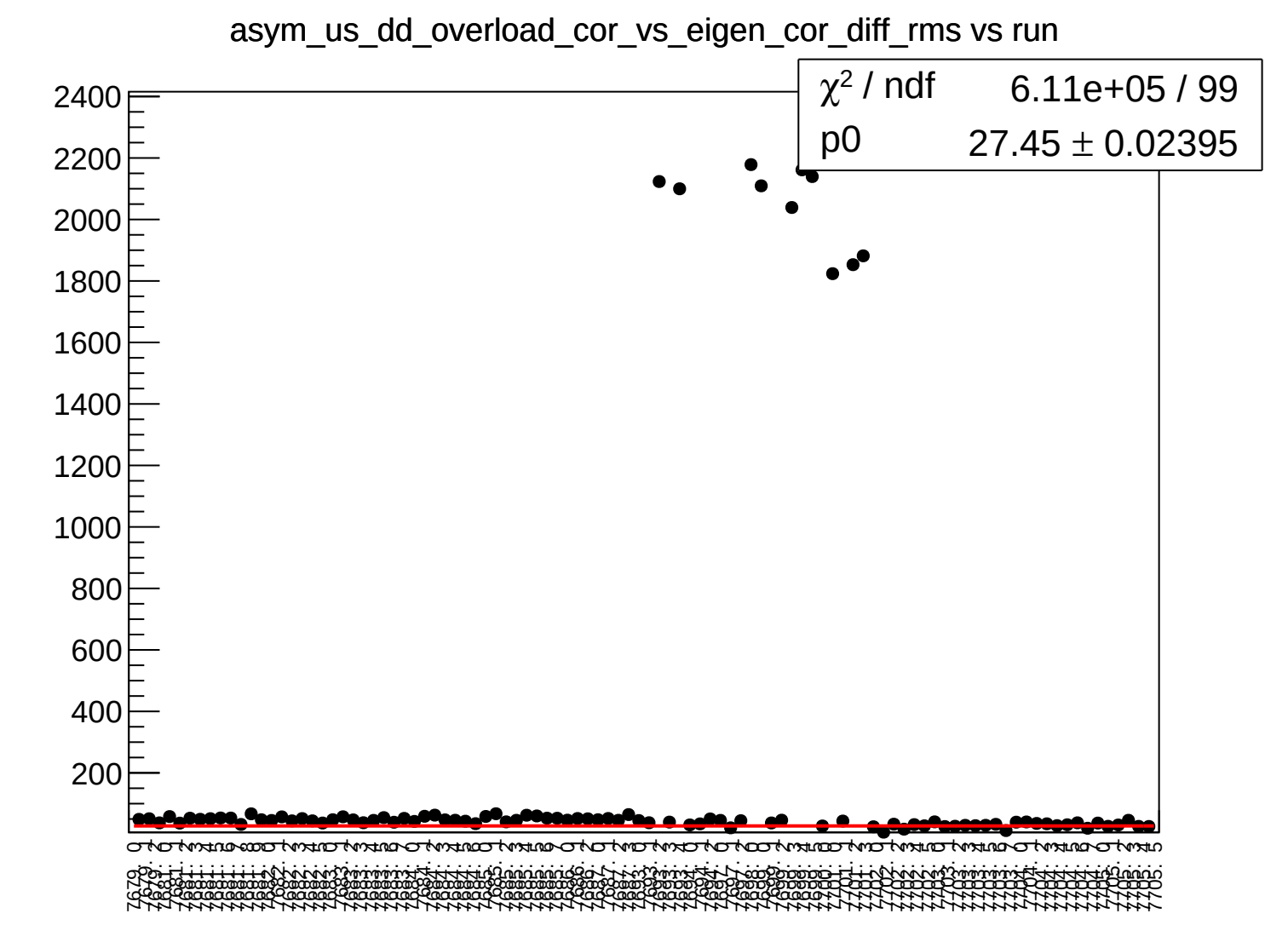

pull1D
Entries 100
Mean −0.03596
Std Dev 1.046

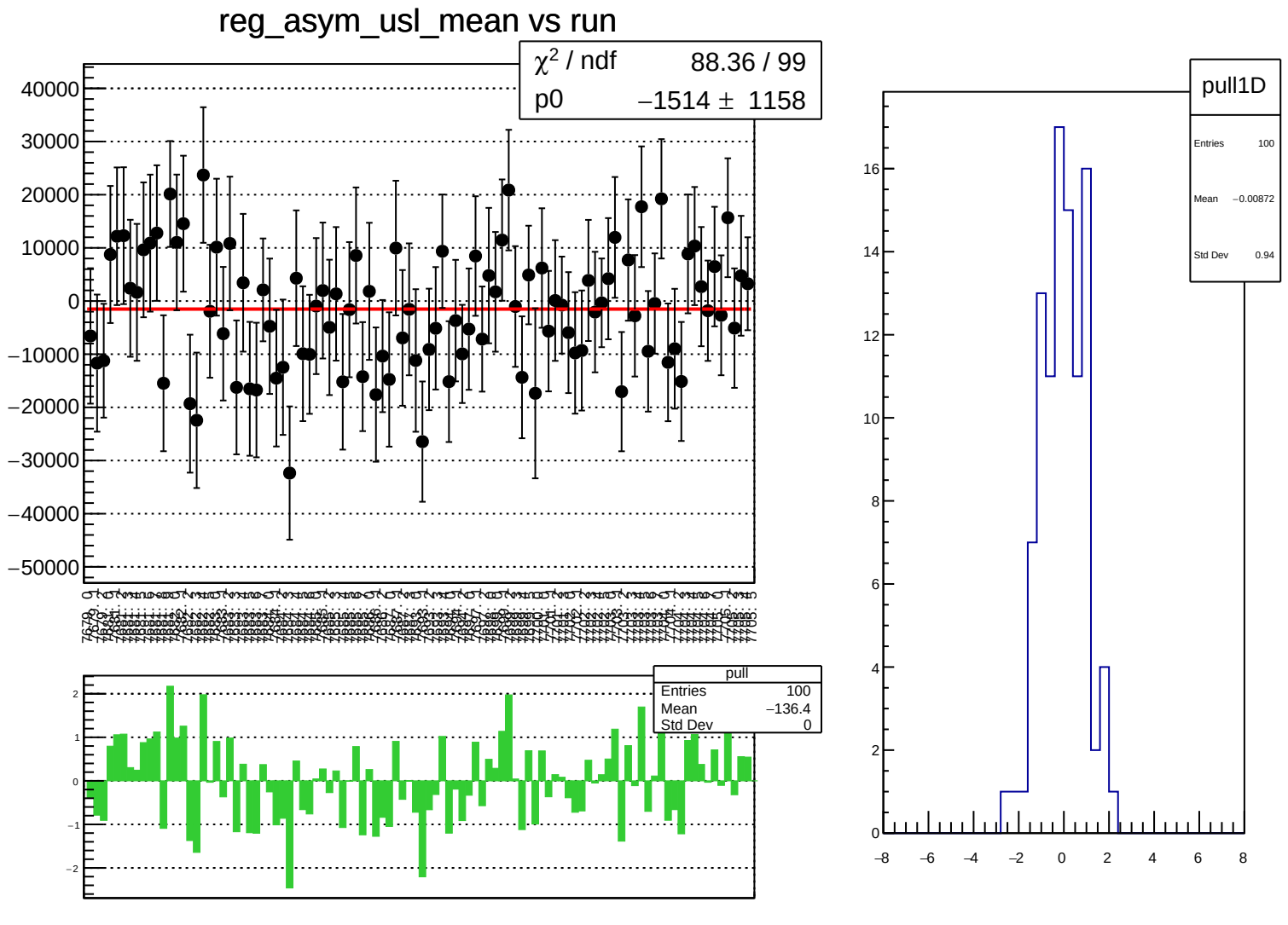

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.842e+05 / 99
p0 4.199e−11 ± 4.328e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

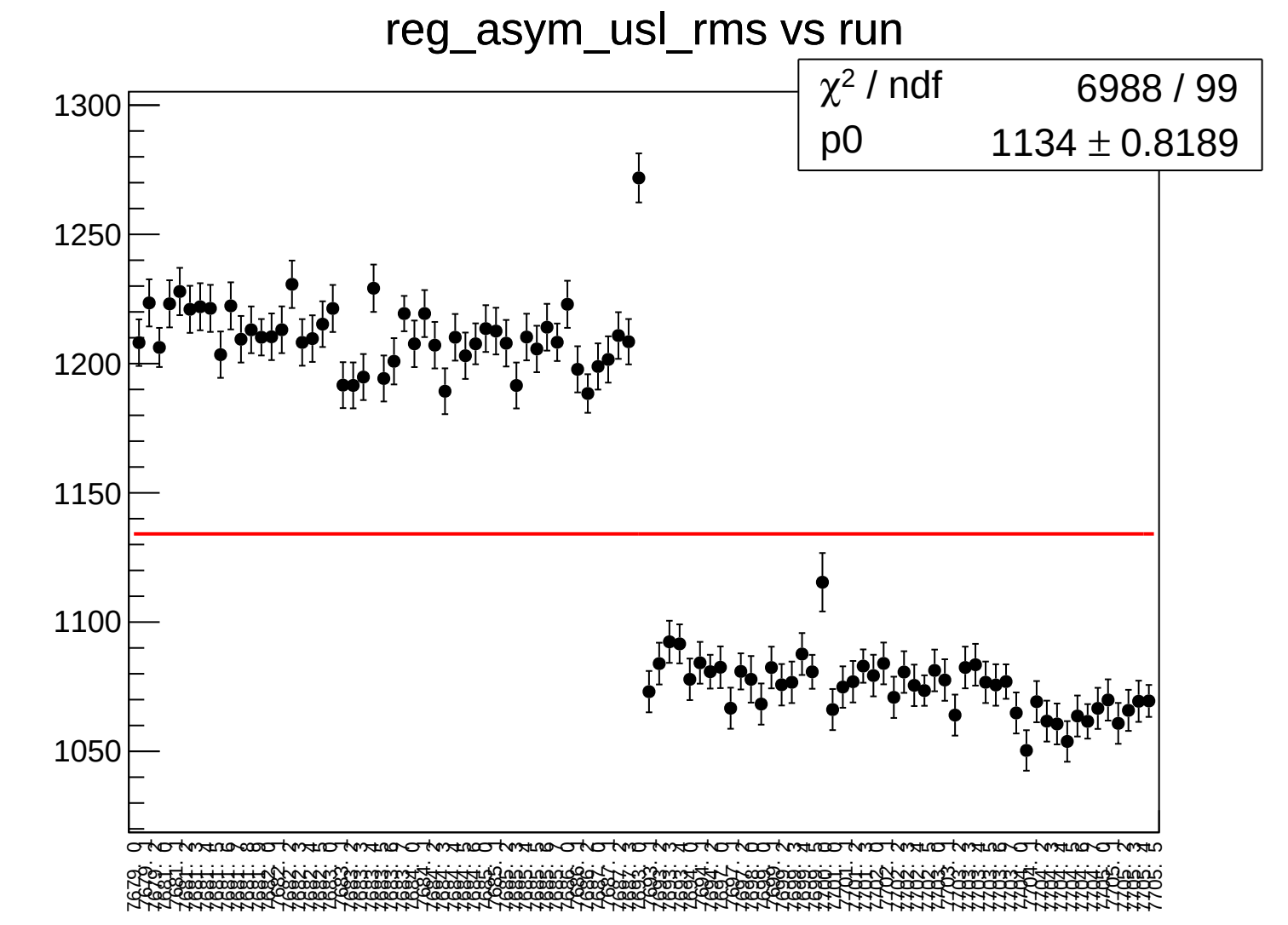

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 87.09 / 99
p0 0.001583 ± 0.03387
pull
Entries 100
Mean 25.08
Std Dev 0
pull1D
Entries 100
Mean −0.0333
Std Dev 0.9326

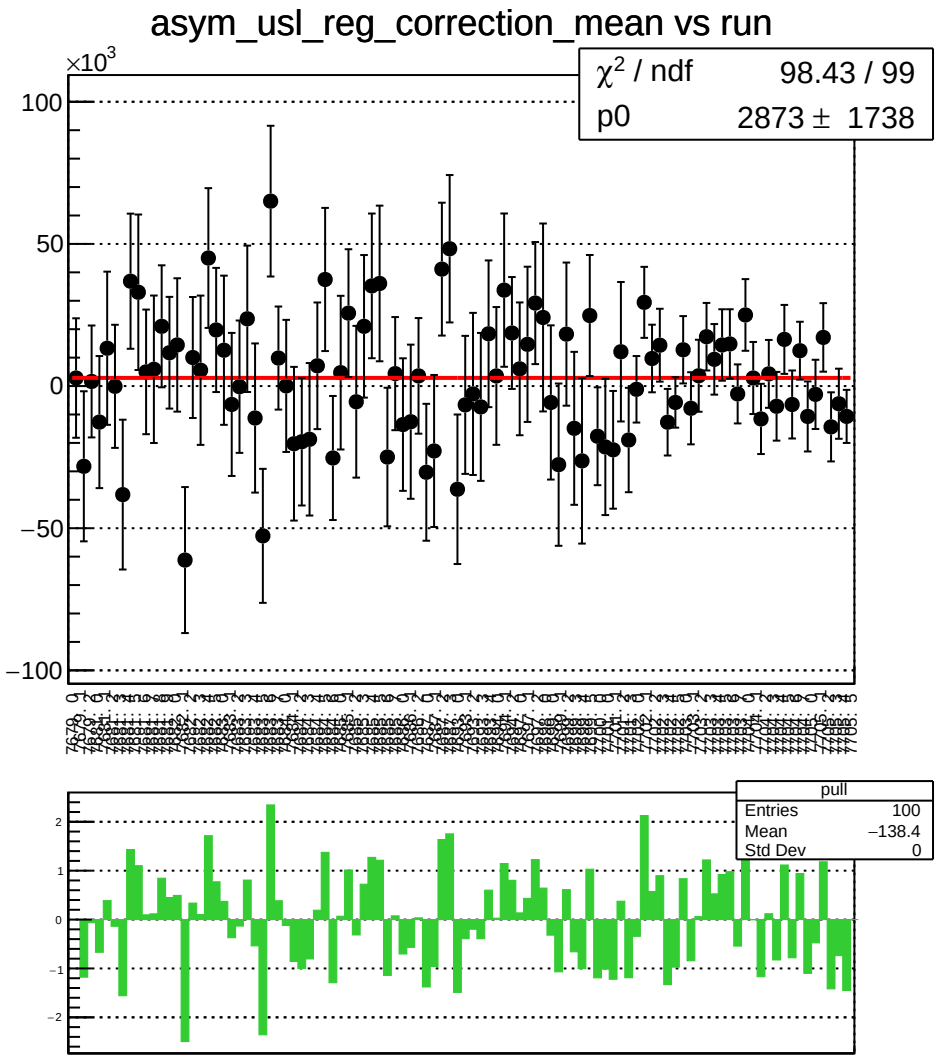

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 6.11e+05 / 99
p0 27.45 ± 0.02395
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

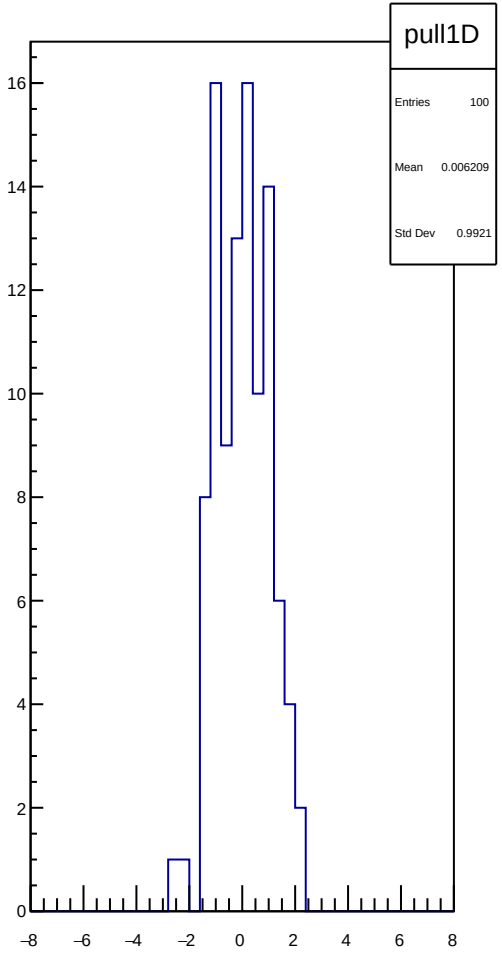

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.09 / 99
p0 0.001583 ± 0.03387
pull
Entries 100
Mean 25.08
Std Dev 0
pull1D
Entries 100
Mean −0.0333
Std Dev 0.9326

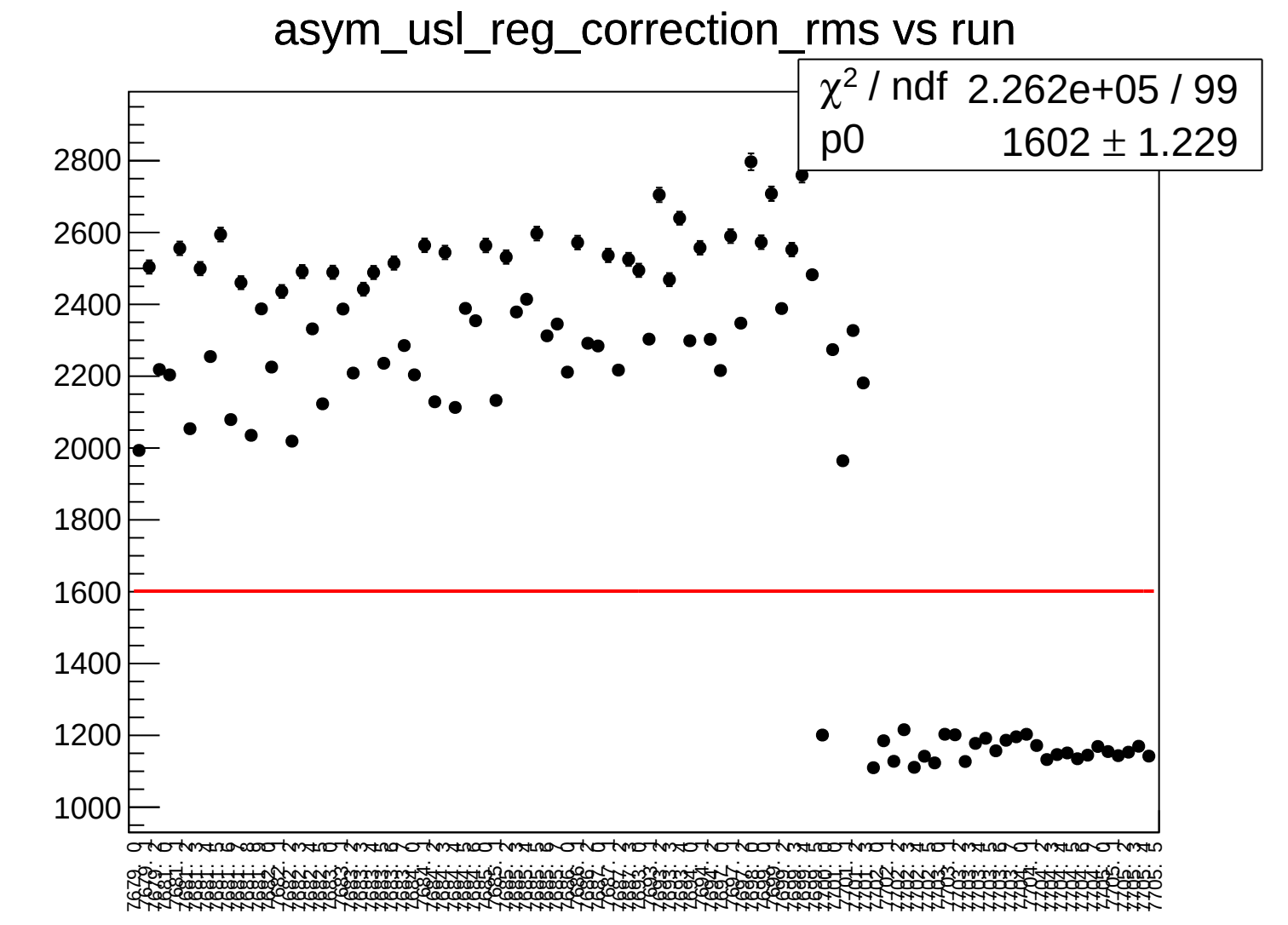

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.11e+05 / 99
p0 27.45 ± 0.02395
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

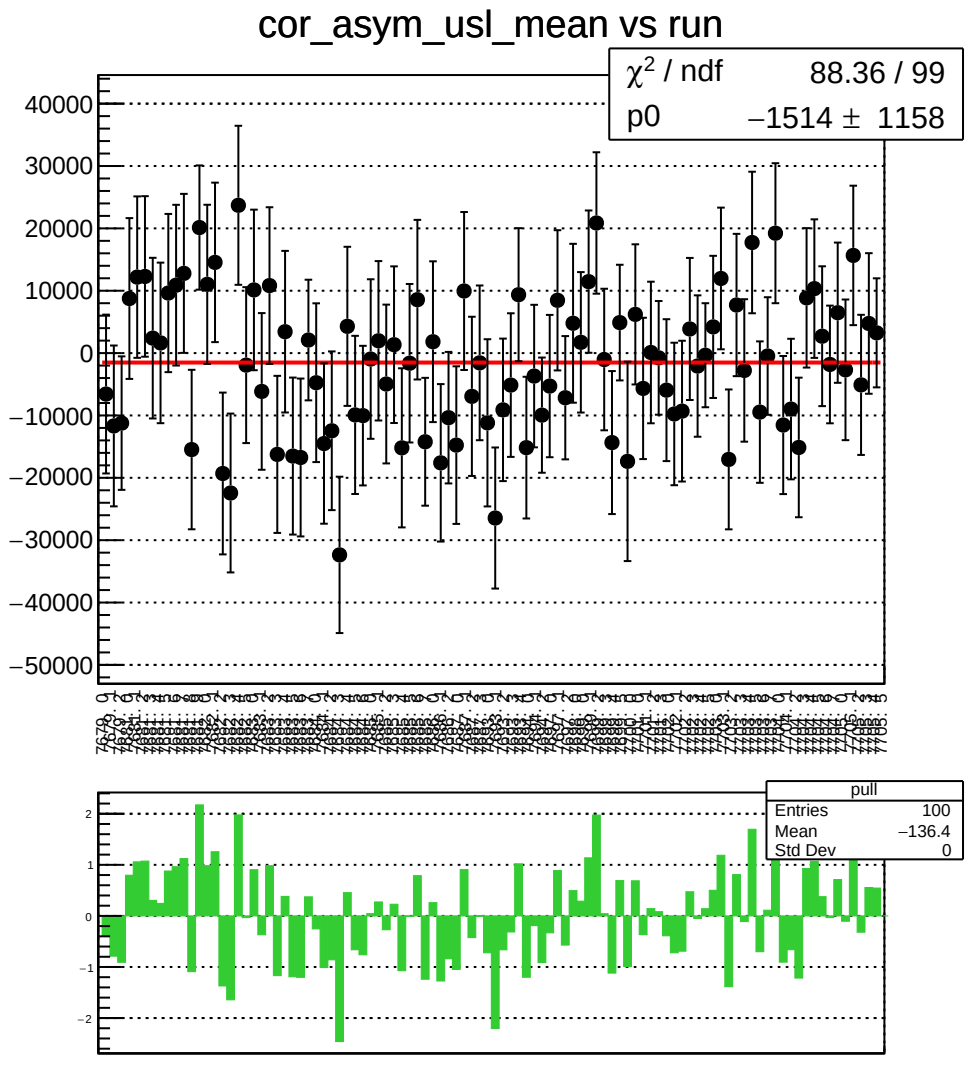

reg_asym_usl_mean vs run
χ² / ndf 88.36 / 99
p0 −1514 ± 1158
pull
Entries 100
Mean −136.4
Std Dev 0
pull1D
Entries 100
Mean −0.00872
Std Dev 0.94

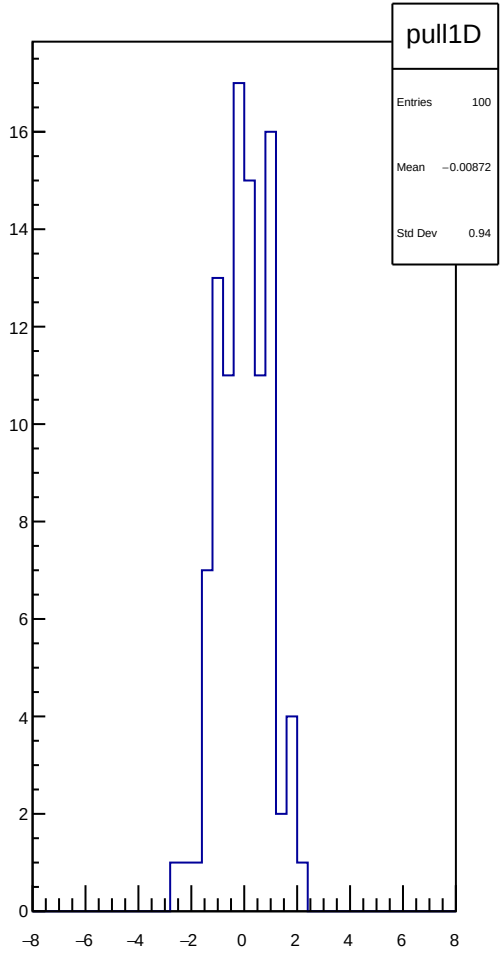

reg_asym_usl_rms vs run
χ² / ndf 6988 / 99
p0 1134 ± 0.8189
1300
1250
1200
1150
1100
1050

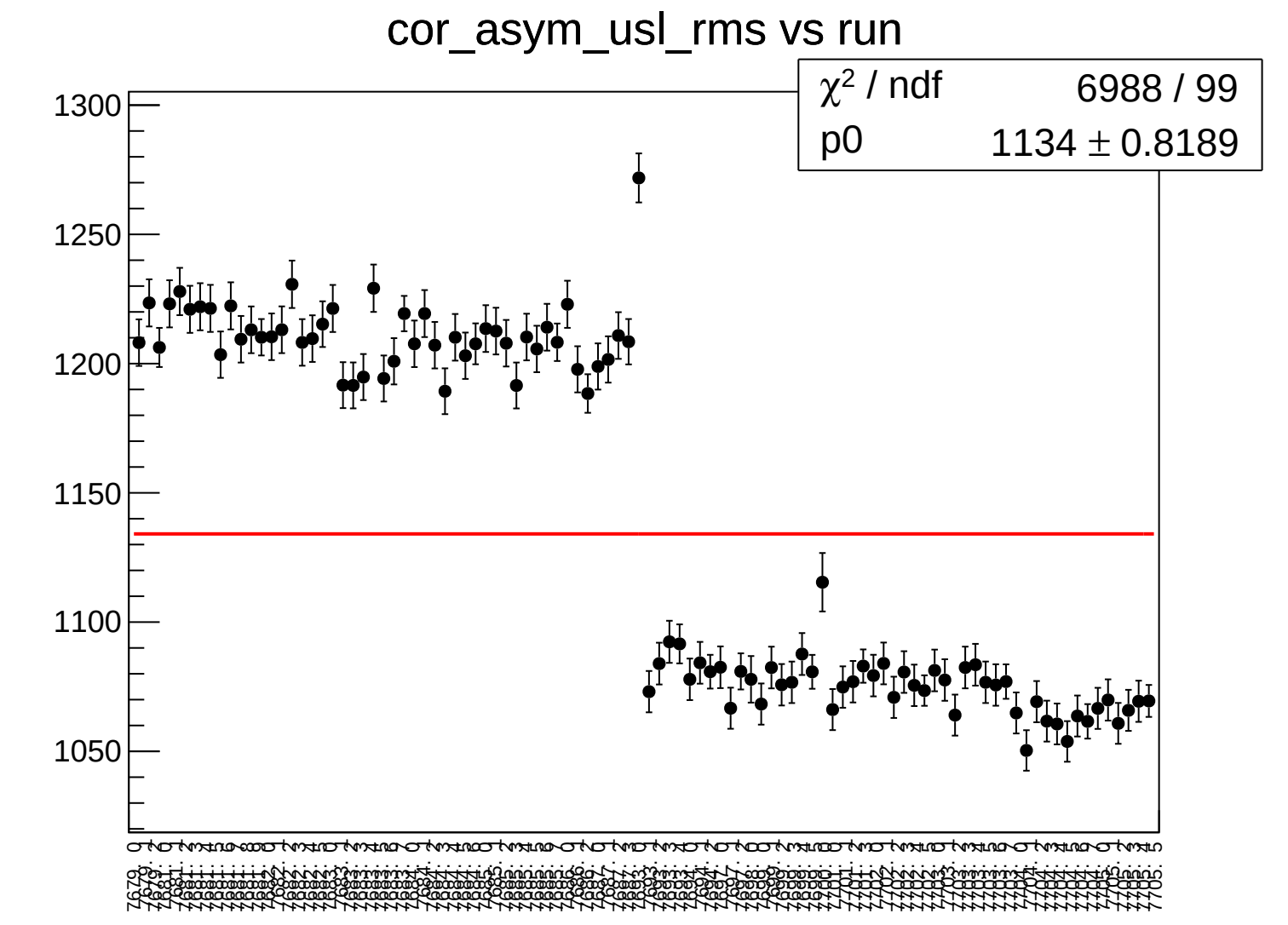

asym_usl_reg_correction_mean vs run
×10^3
χ² / ndf 98.43 / 99
p0 2873 ± 1738
100
50
0
−50
−100
pull
Entries 100
Mean −138.4
Std Dev 0
2
1
0
−1
−2

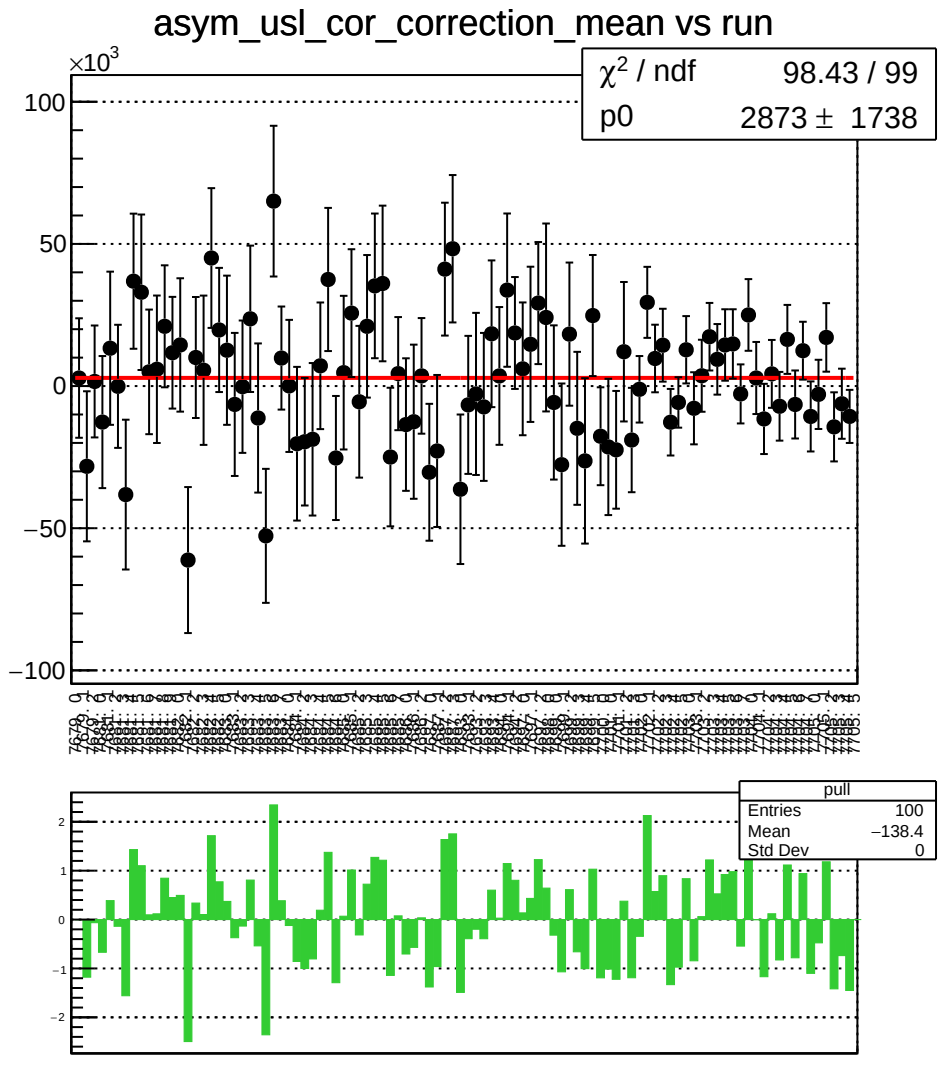

pull1D
Entries 100
Mean 0.006209
Std Dev 0.9921
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

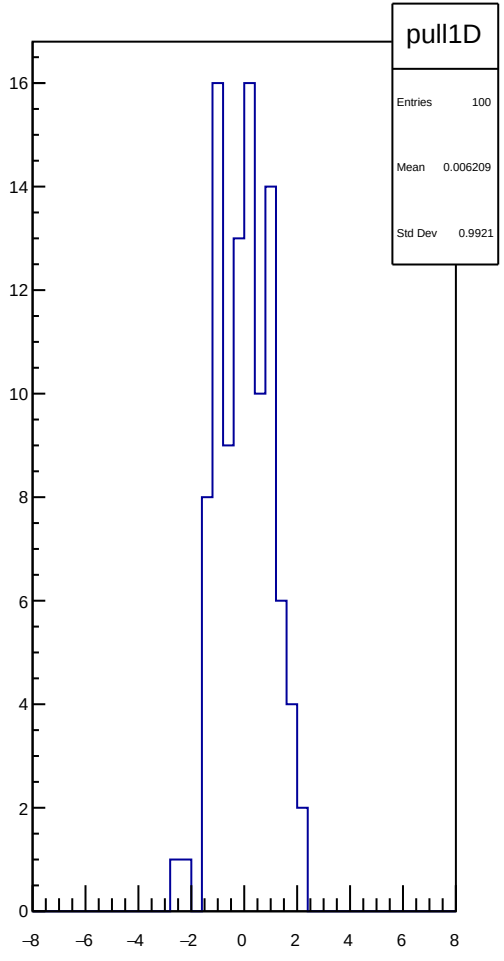

asym_usl_reg_correction_rms vs run
χ² / ndf 2.262e+05 / 99
p0 1602 ± 1.229
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000

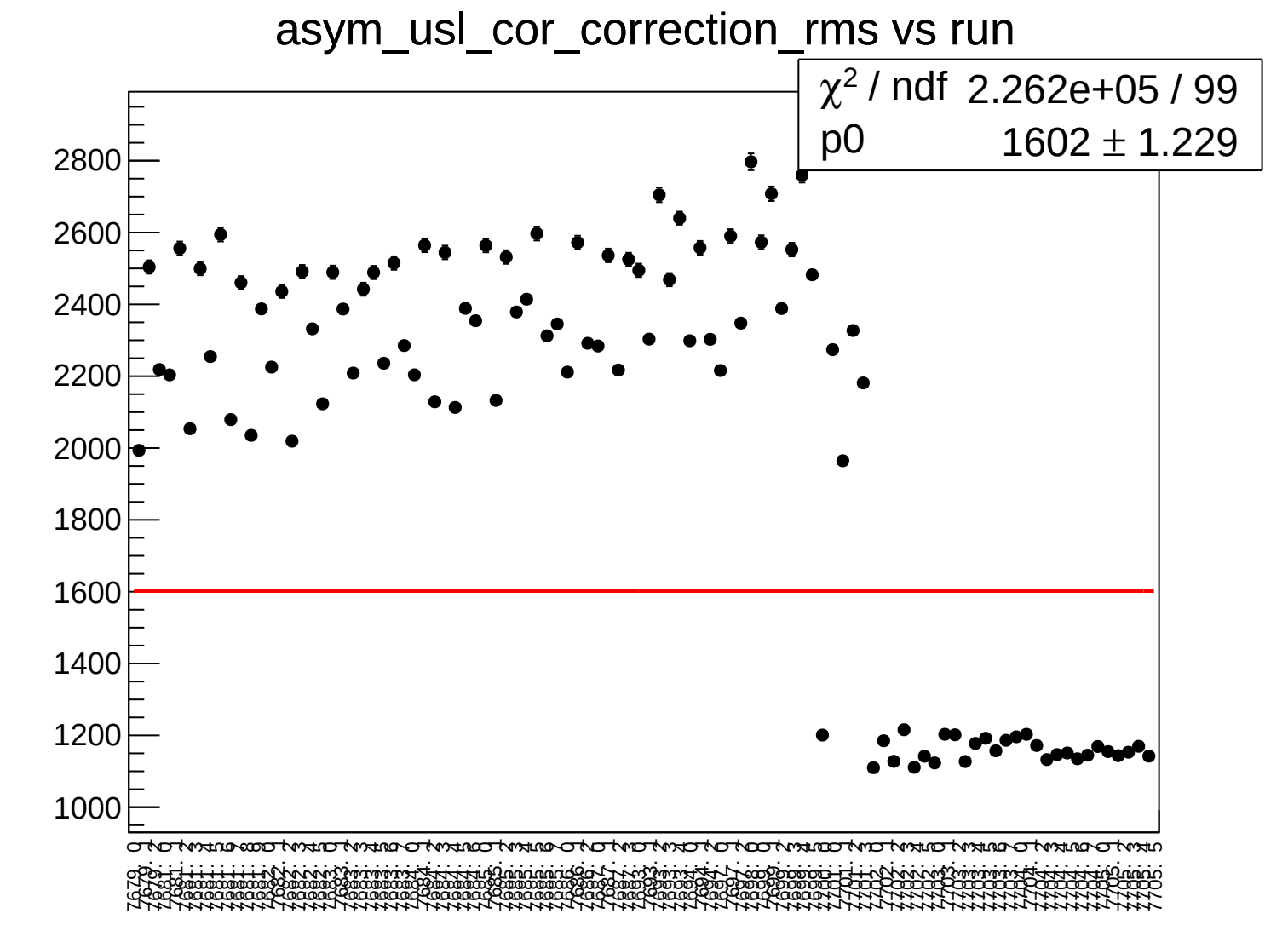

cor_asym_usl_mean vs run
χ² / ndf 88.36 / 99
p0 −1514 ± 1158
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 100
Mean −136.4
Std Dev 0
2
1
0
−1
−2

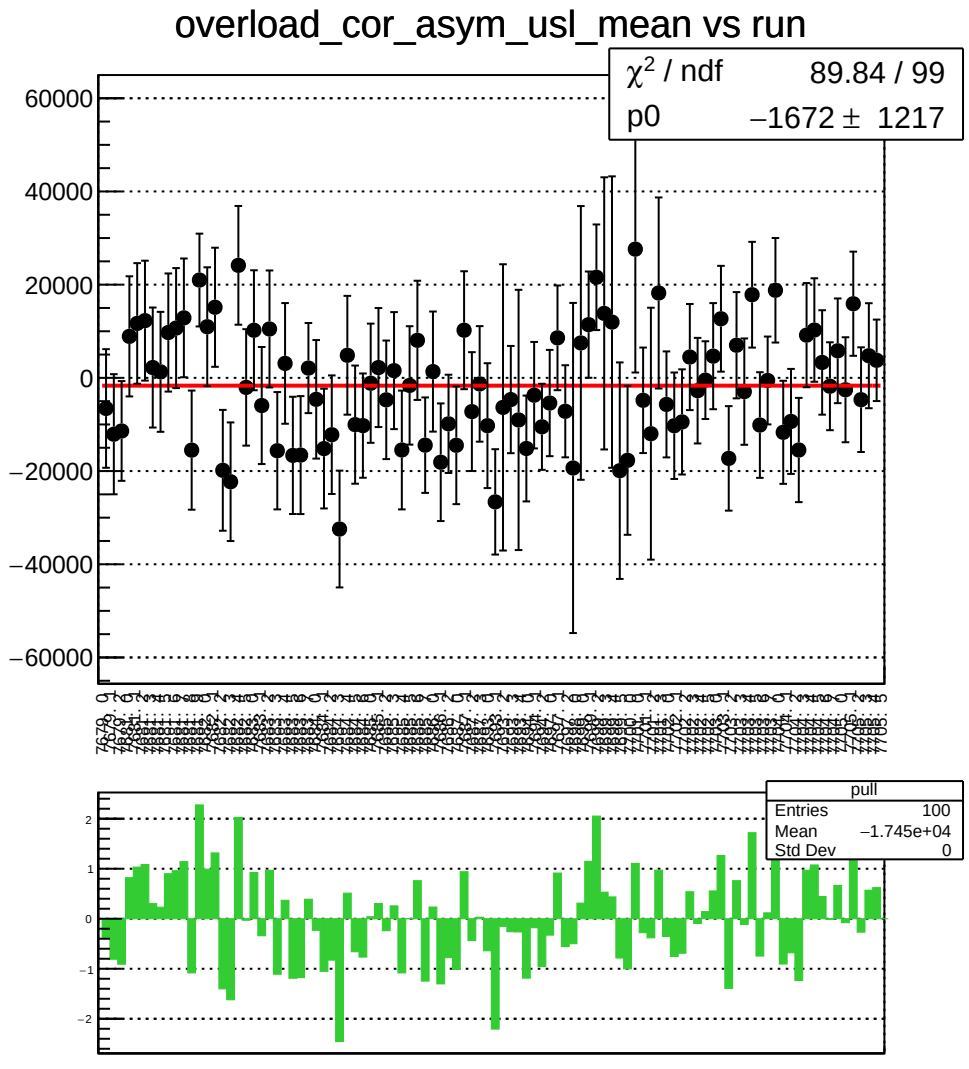

pull1D
Entries 100
Mean −0.00872
Std Dev 0.94
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

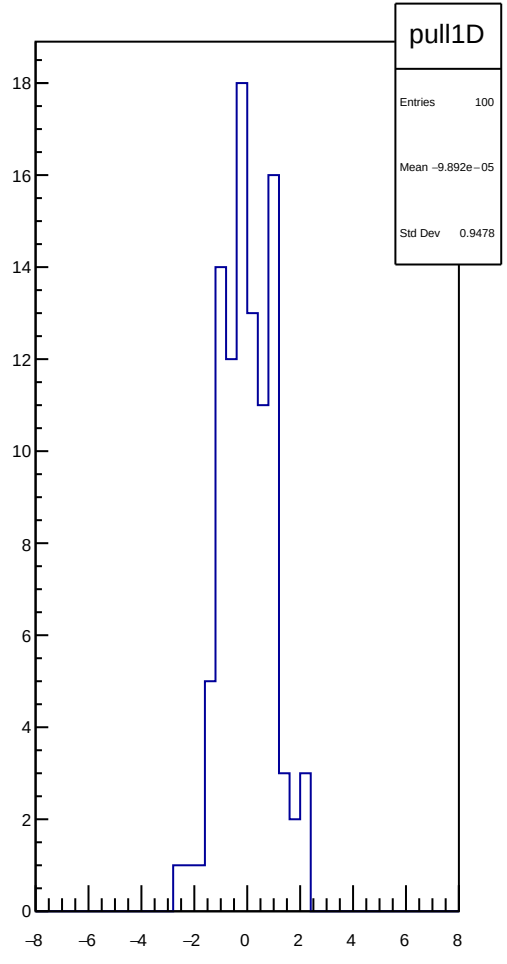

cor_asym_usl_rms vs run
χ² / ndf 6988 / 99
p0 1134 ± 0.8189
1300
1250
1200
1150
1100
1050

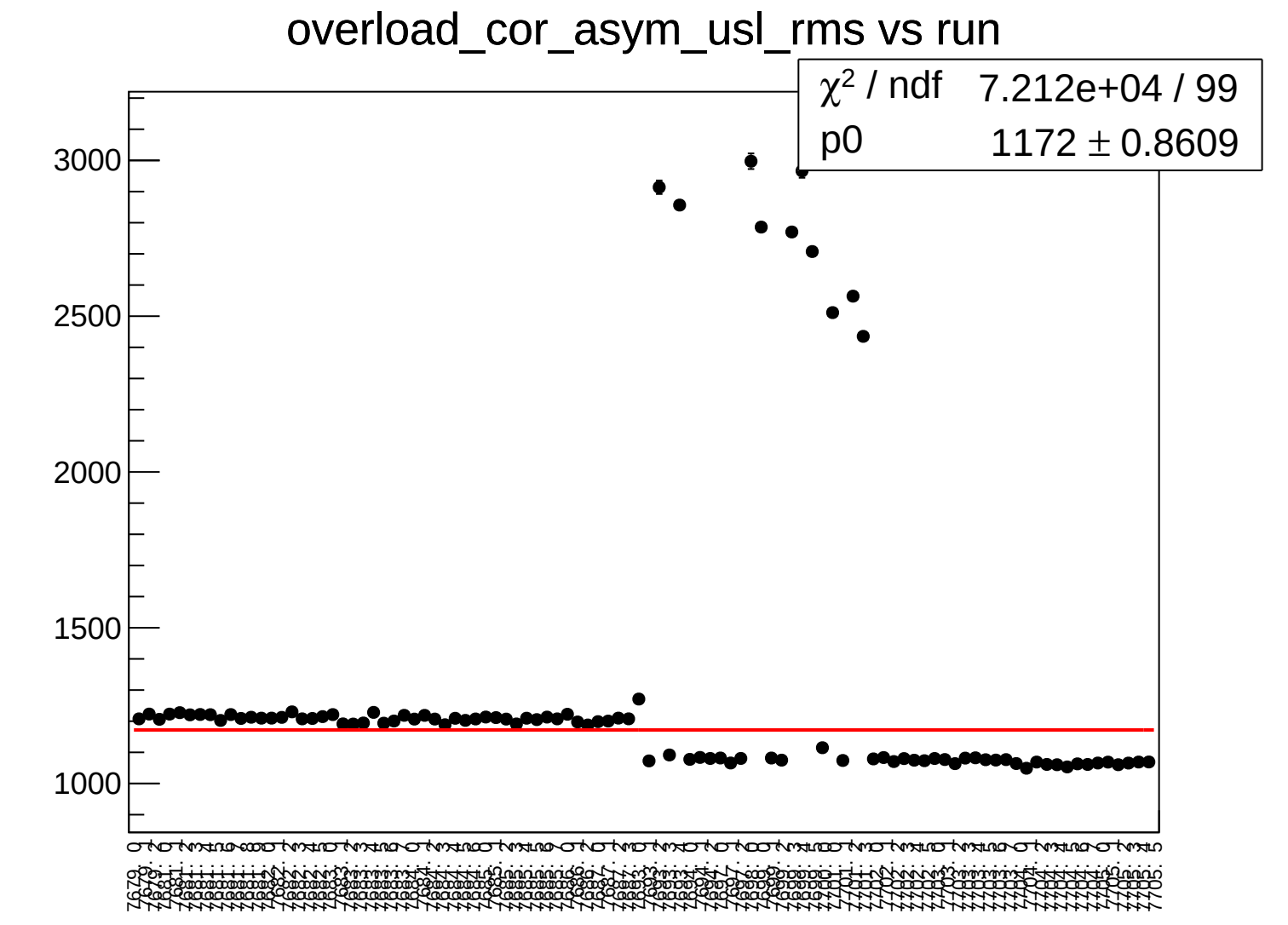

asym_usl_cor_correction_mean vs run
×10^3
χ^2 / ndf 98.43 / 99
p0 2873 ± 1738
100
50
0
−50
−100
pull
Entries 100
Mean −138.4
Std Dev 0
2
1
0
−1
−2

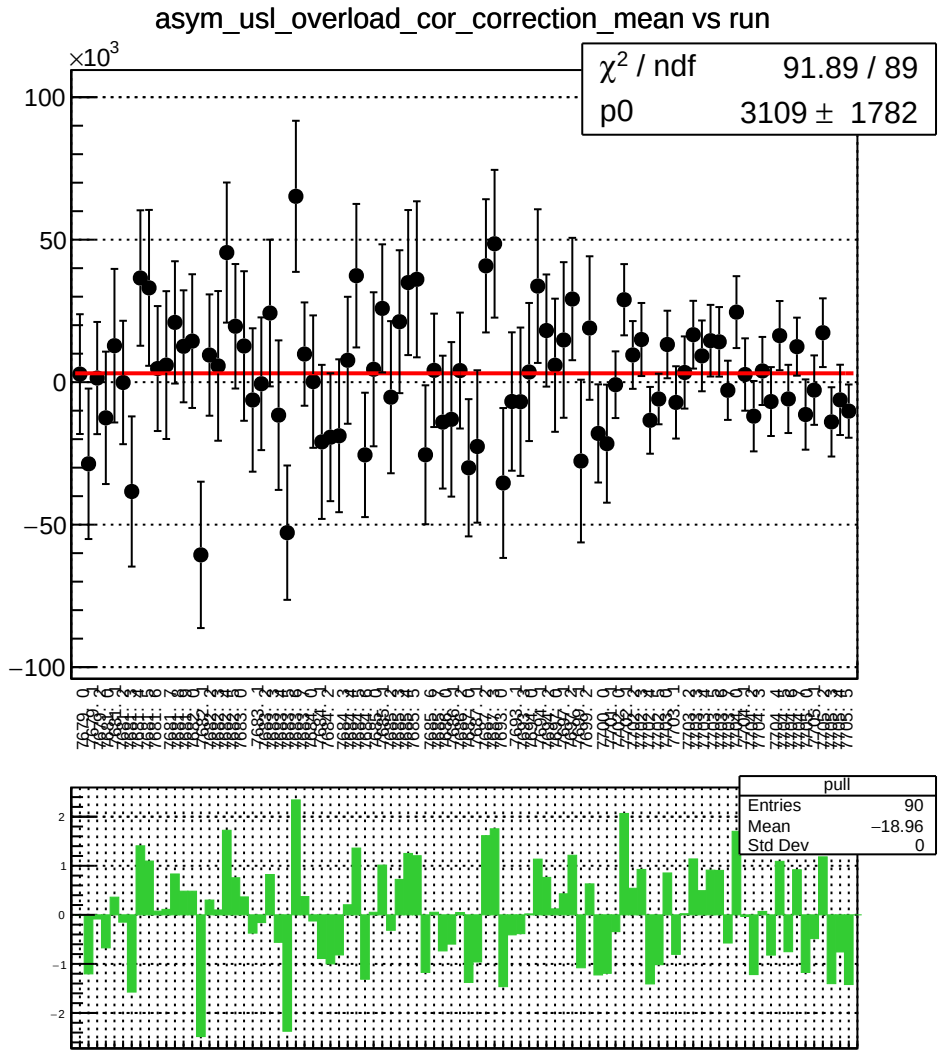

pull1D
Entries 100
Mean 0.006209
Std Dev 0.9921
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

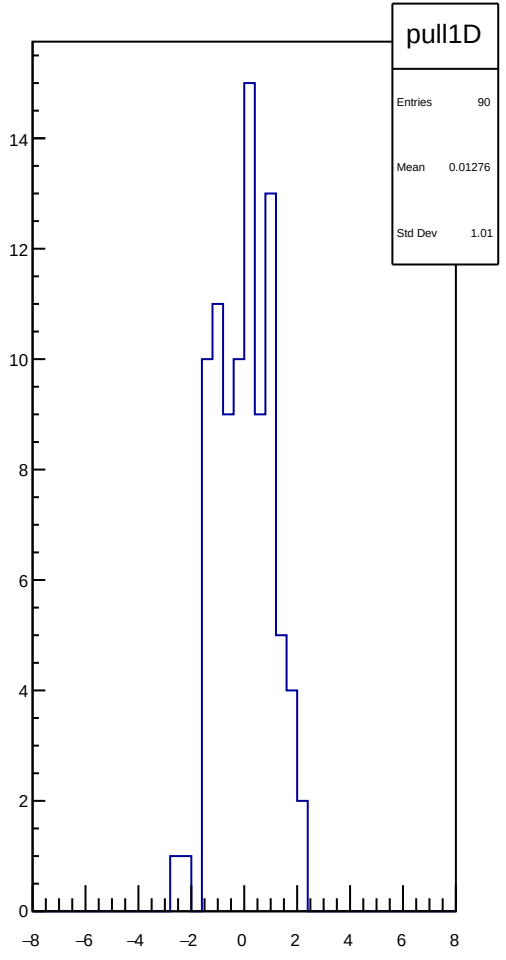

asym_usl_cor_correction_rms vs run
χ² / ndf 2.262e+05 / 99
p0 1602 ± 1.229
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000

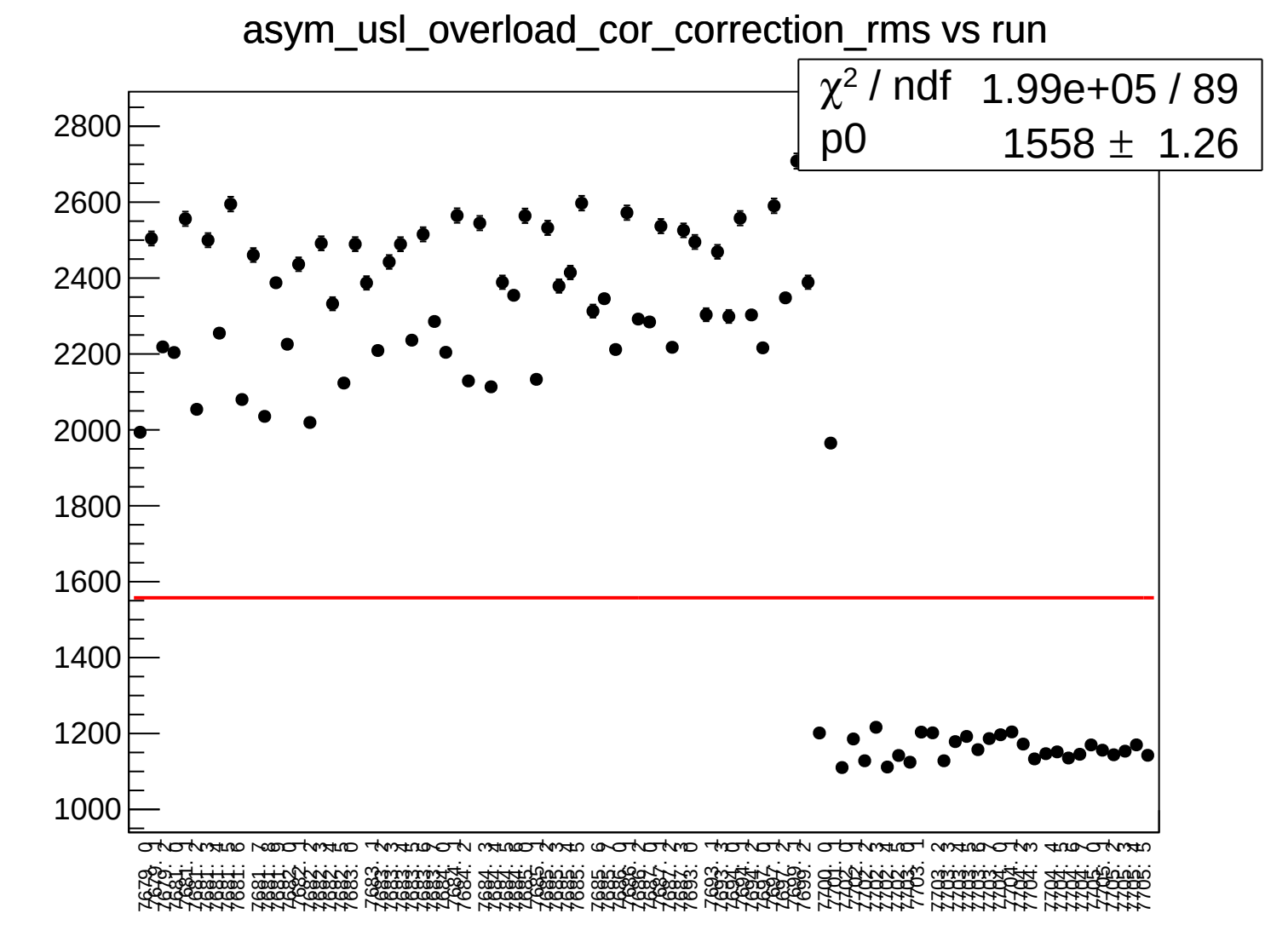

overload_cor_asym_usl_mean vs run
χ² / ndf 89.84 / 99
p0 −1672 ± 1217
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −1.745e+04
Std Dev 0
2
1
0
−1
−2

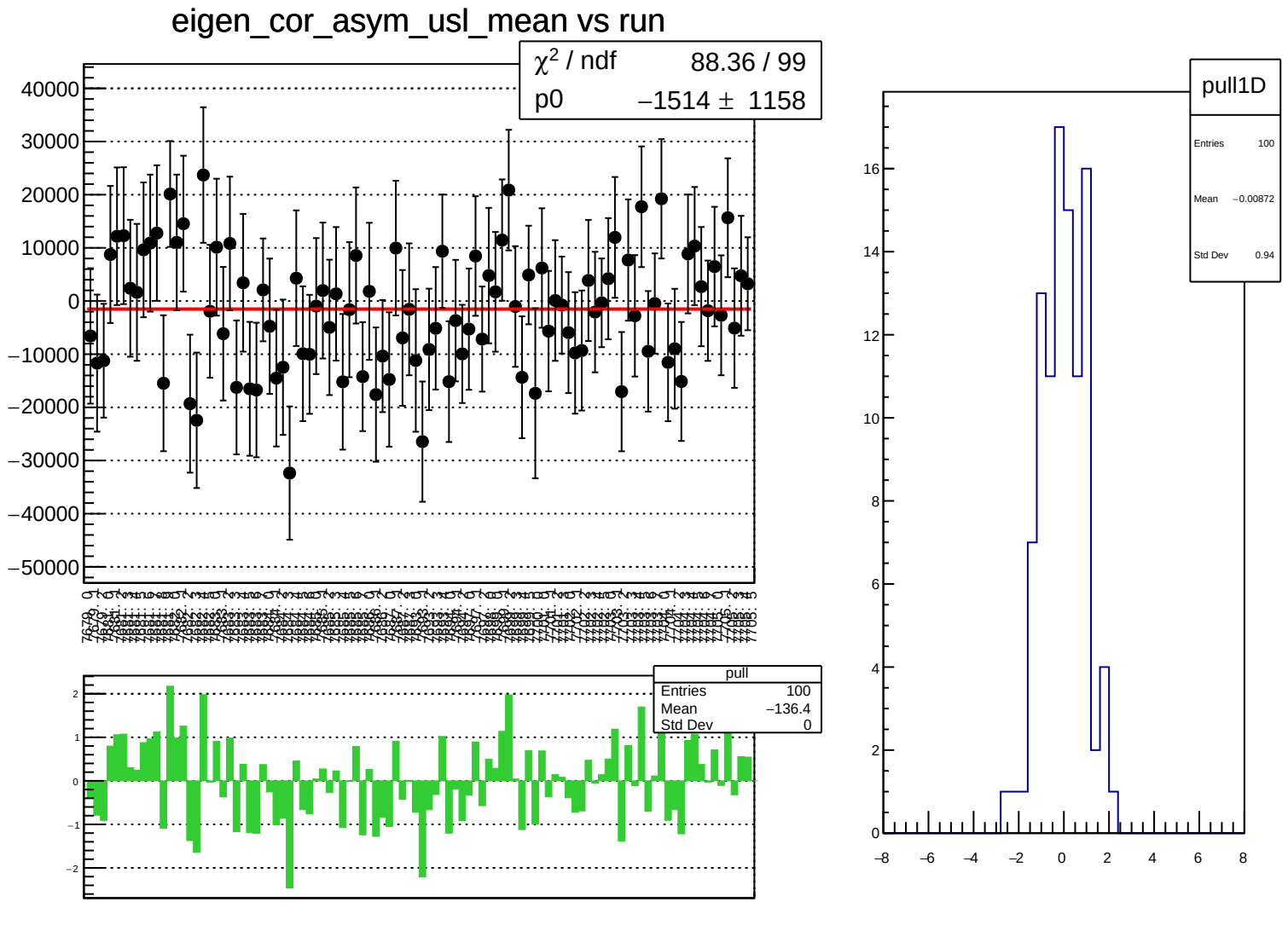

pull1D
Entries 100
Mean −9.892e−05
Std Dev 0.9478
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

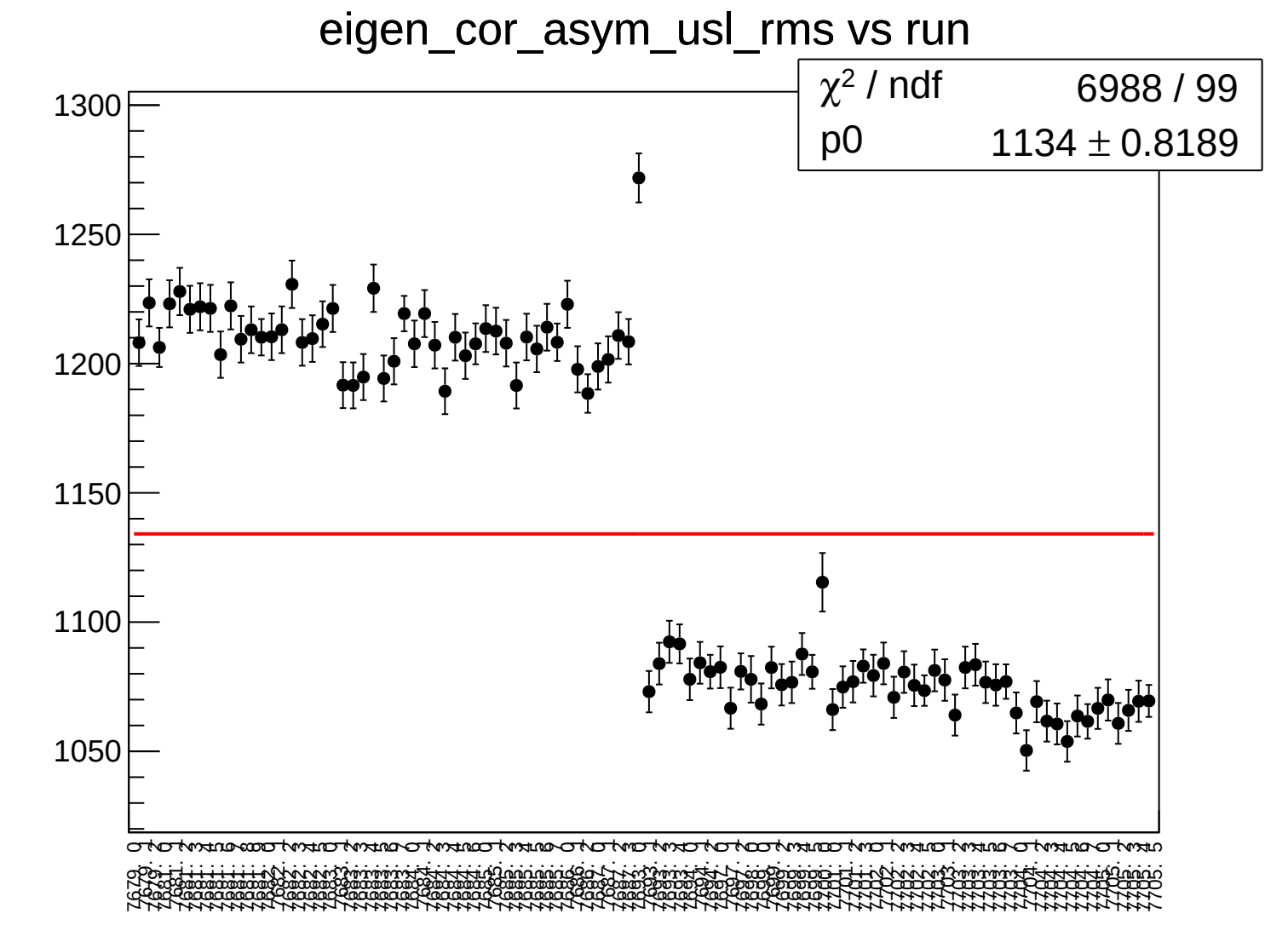

overload_cor_asym_usl_rms vs run
χ² / ndf 7.212e+04 / 99
p0 1172 ± 0.8609
3000
2500
2000
1500
1000

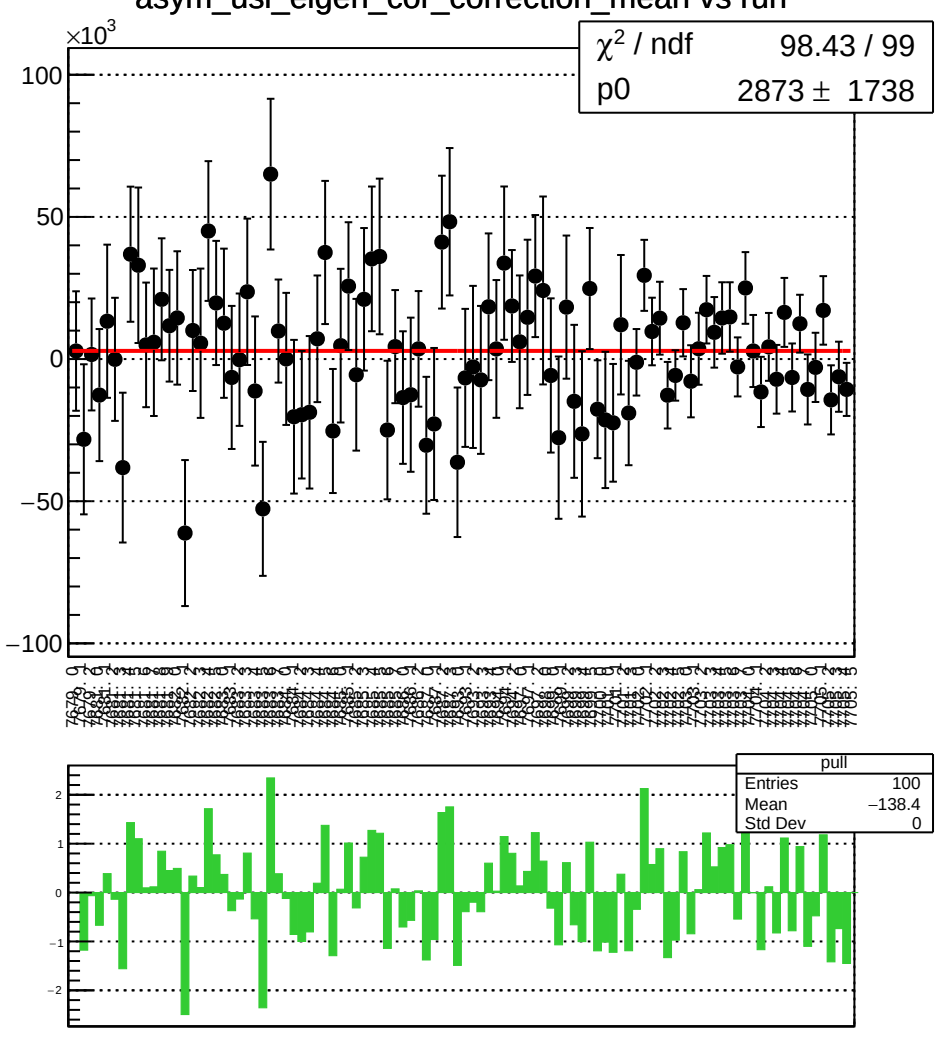

asym_usl_overload_cor_correction_mean vs run
×10^3
χ² / ndf 91.89 / 89
p0 3109 ± 1782
100
50
0
−50
−100
pull
Entries 90
Mean −18.96
Std Dev 0
2
1
0
−1
−2

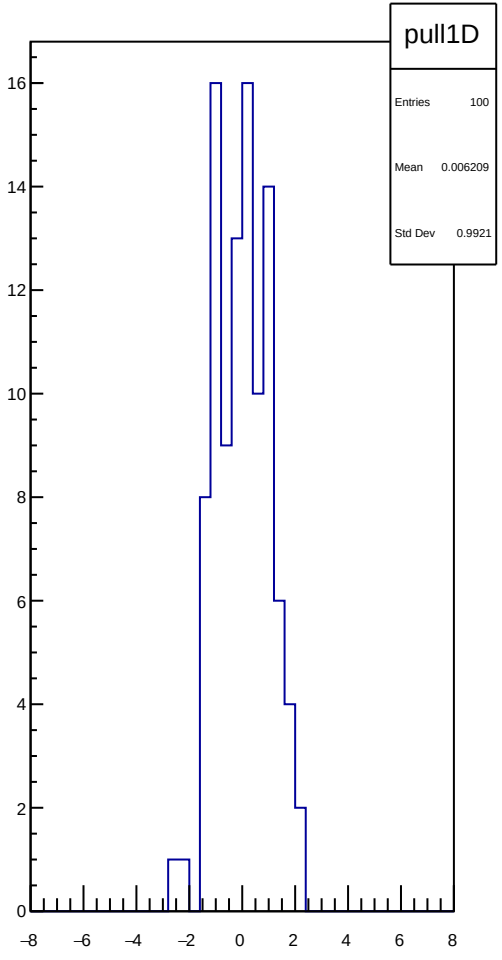

pull1D
Entries 90
Mean 0.01276
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

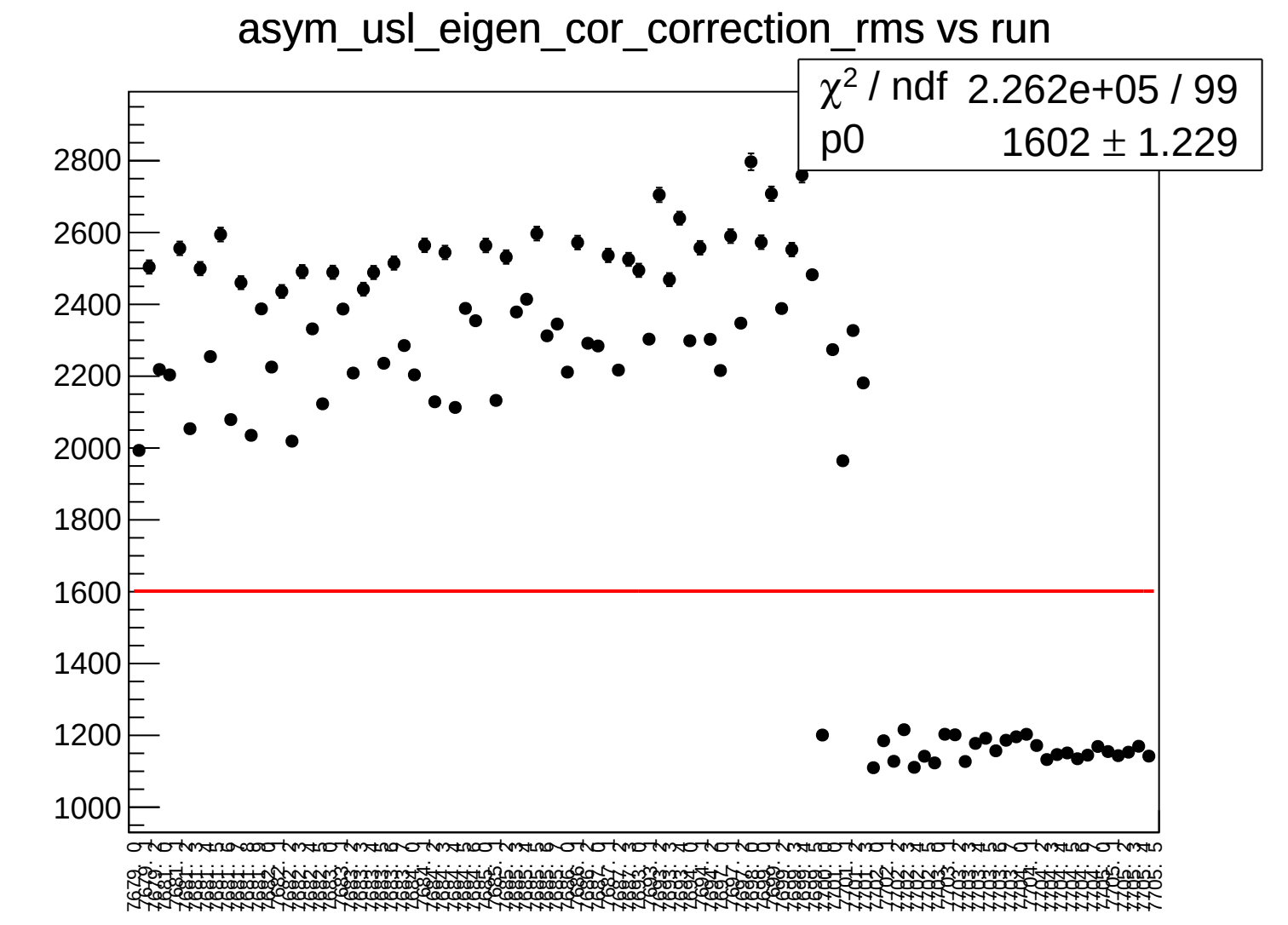

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 1.99e+05 / 89
p0 1558 ± 1.26
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000

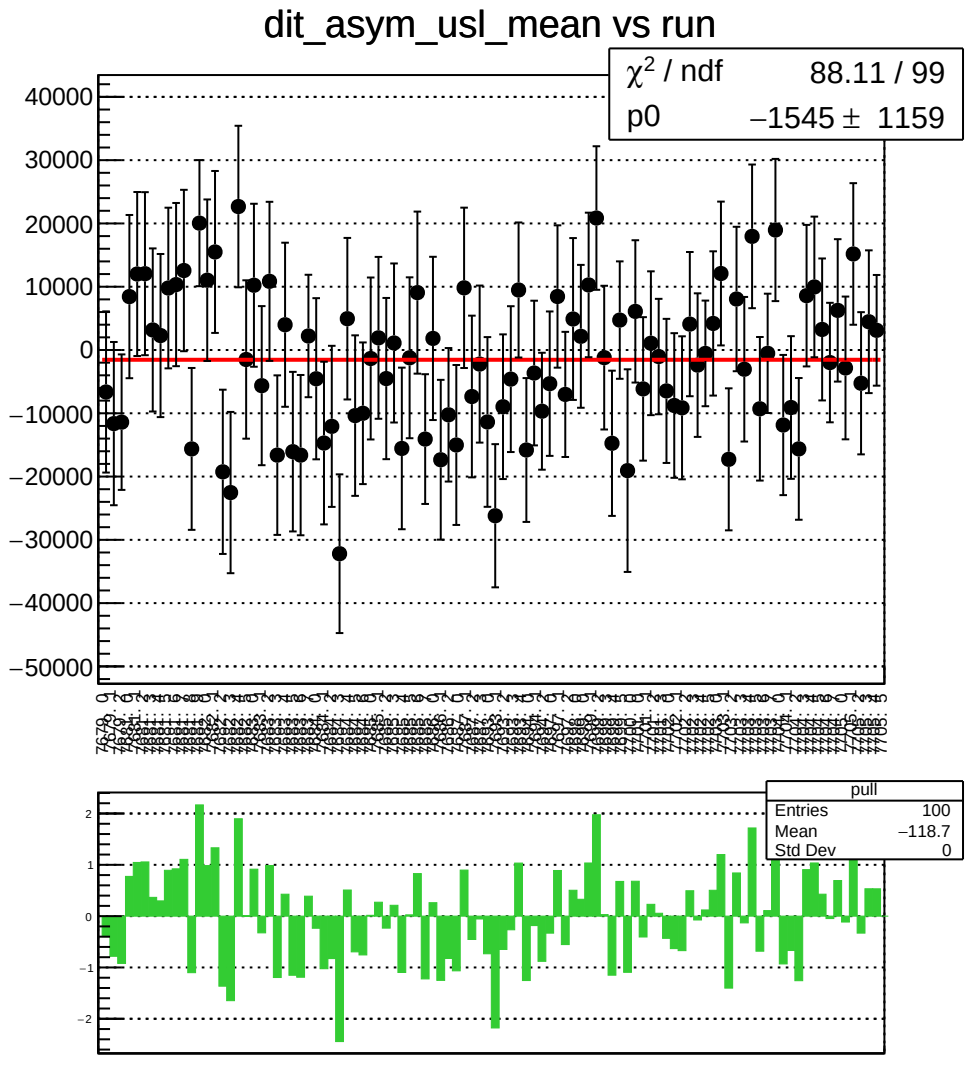

eigen_cor_asym_usl_mean vs run
χ² / ndf 88.36 / 99
p0 −1514 ± 1158
pull
Entries 100
Mean −136.4
Std Dev 0
pull1D
Entries 100
Mean −0.00872
Std Dev 0.94

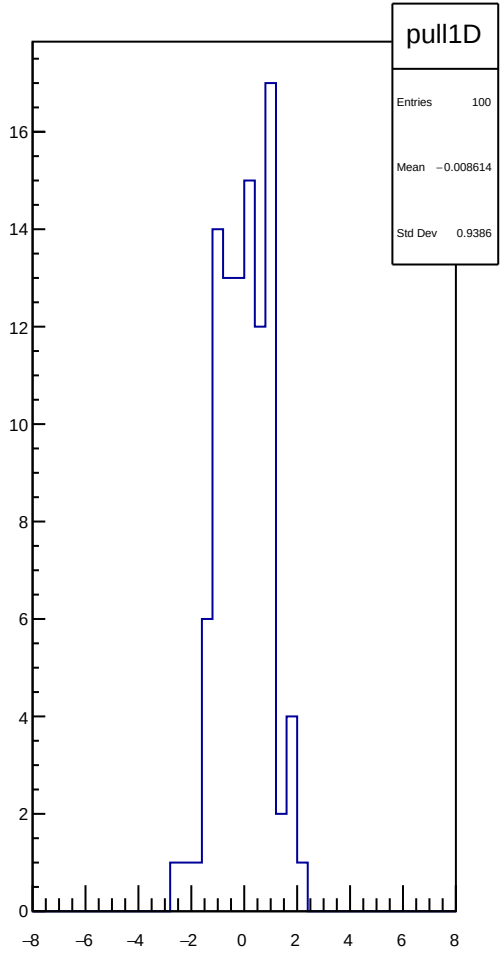

eigen_cor_asym_usl_rms vs run
χ² / ndf 6988 / 99
p0 1134 ± 0.8189
1300
1250
1200
1150
1100
1050

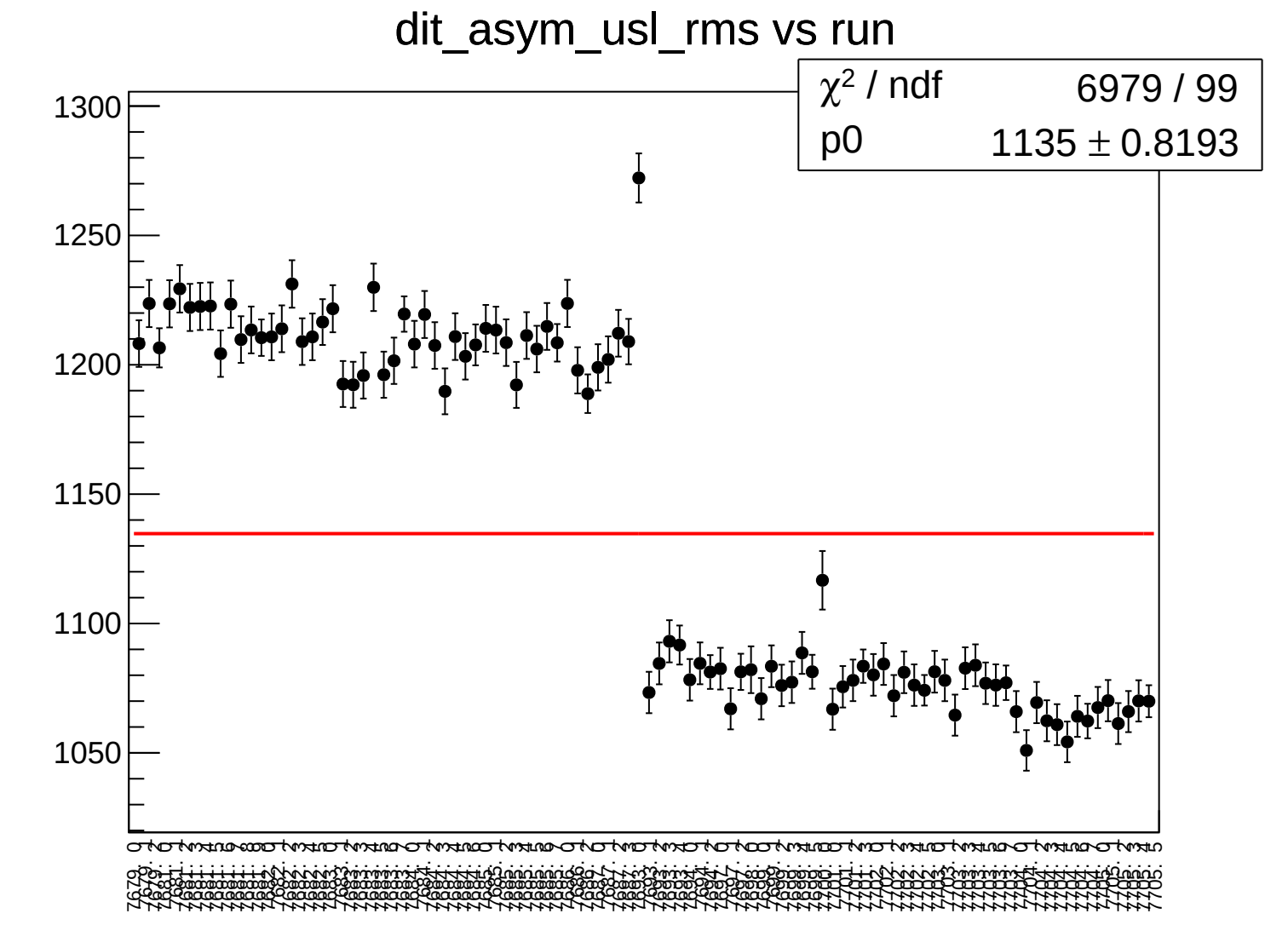

asym_usl_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 98.43 / 99
p0 2873 ± 1738
100
50
0
−50
−100
pull
Entries 100
Mean −138.4
Std Dev 0
2
1
0
−1
−2

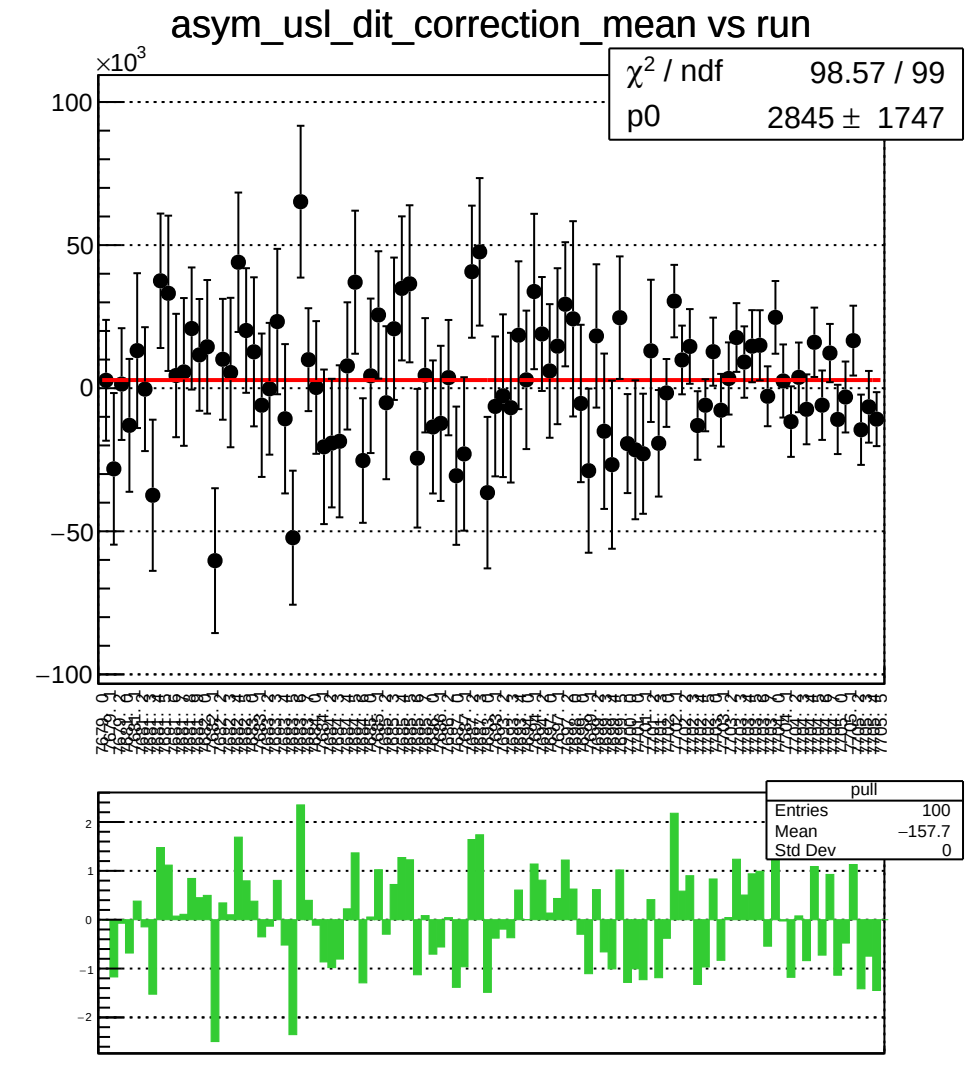

pull1D
Entries 100
Mean 0.006209
Std Dev 0.9921
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

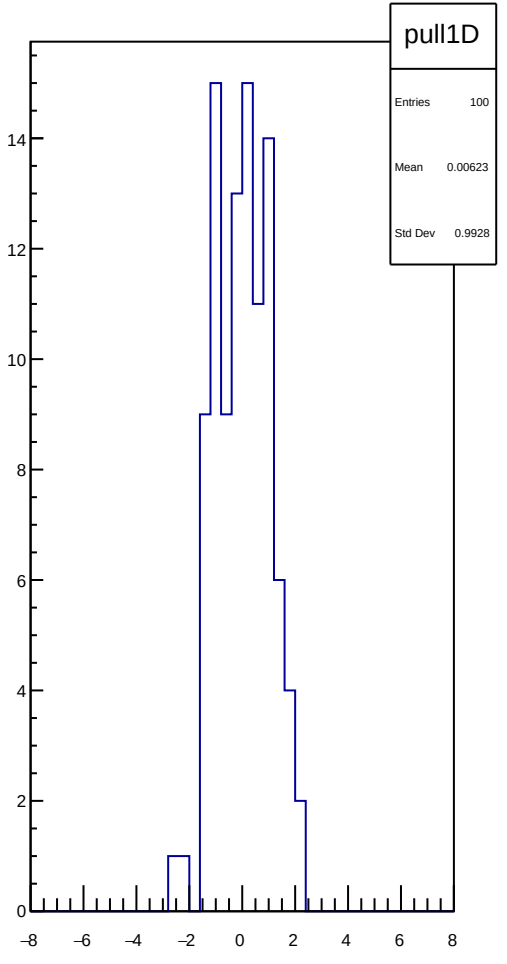

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 2.262e+05 / 99
p0 1602 ± 1.229
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000

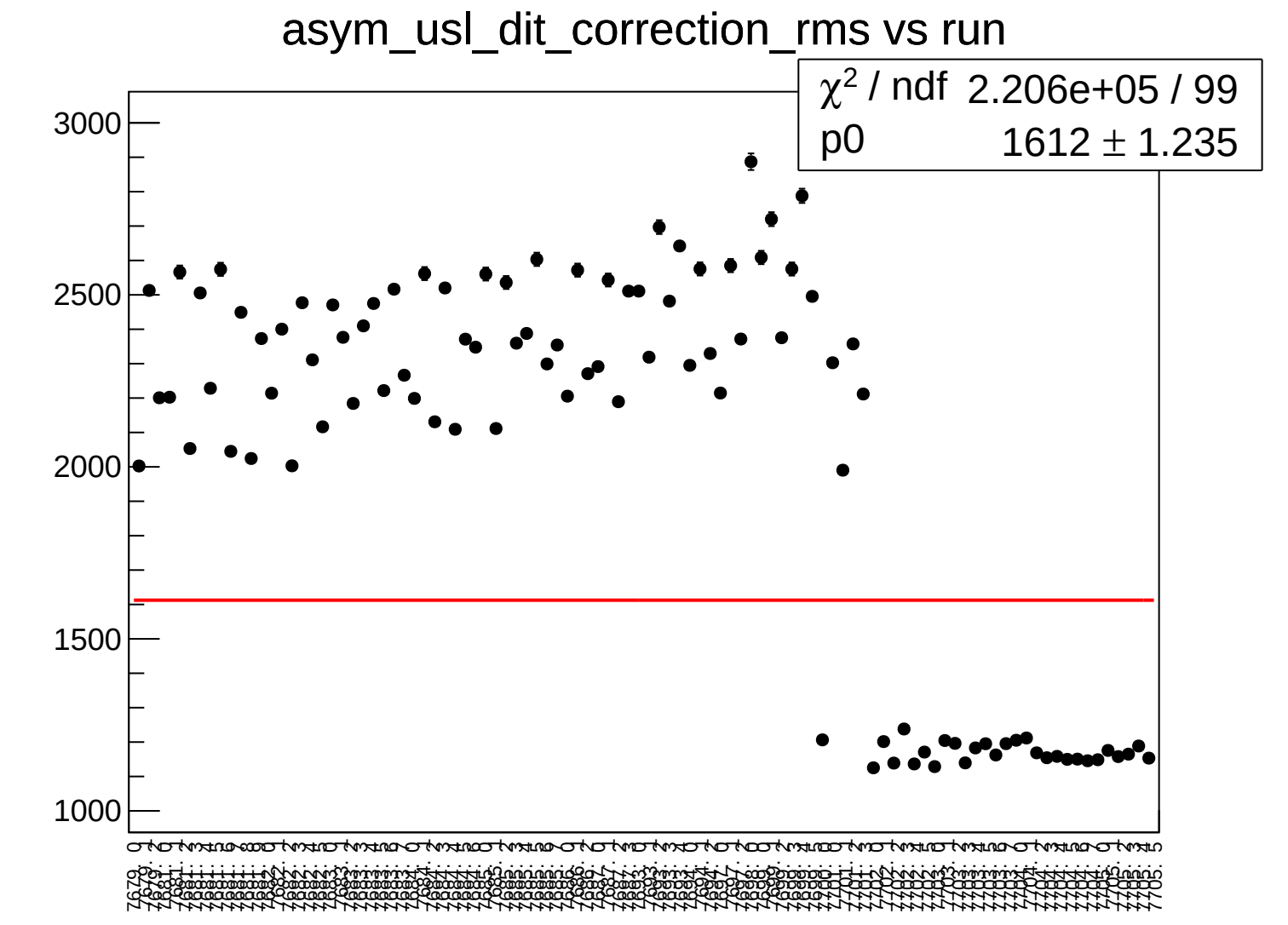

dit_asym_usl_mean vs run
χ² / ndf 88.11 / 99
p0 −1545 ± 1159
pull
Entries 100
Mean −118.7
Std Dev 0

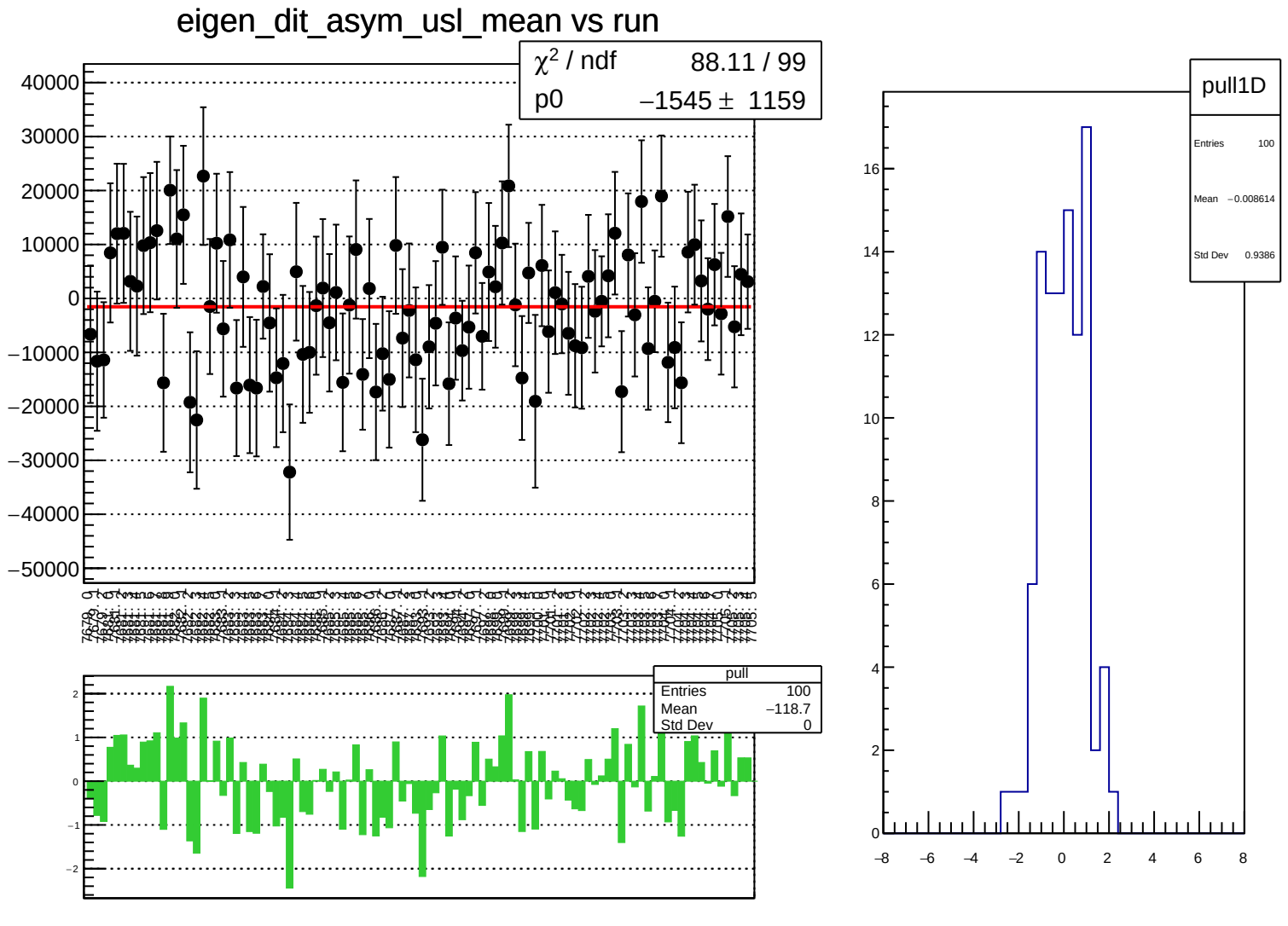

pull1D
Entries 100
Mean −0.008614
Std Dev 0.9386

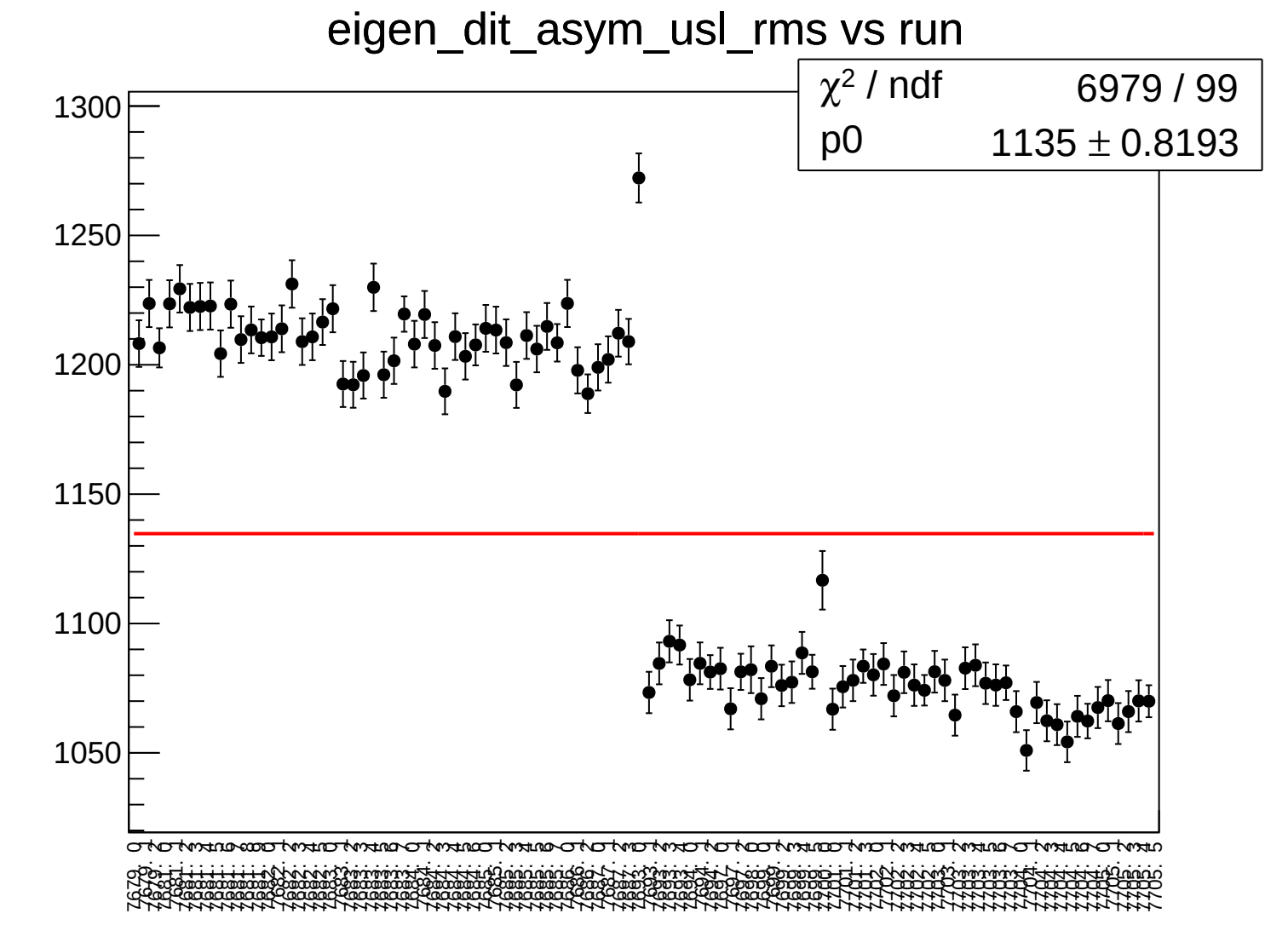

dit_asym_usl_rms vs run
χ² / ndf 6979 / 99
p0 1135 ± 0.8193
1300
1250
1200
1150
1100
1050

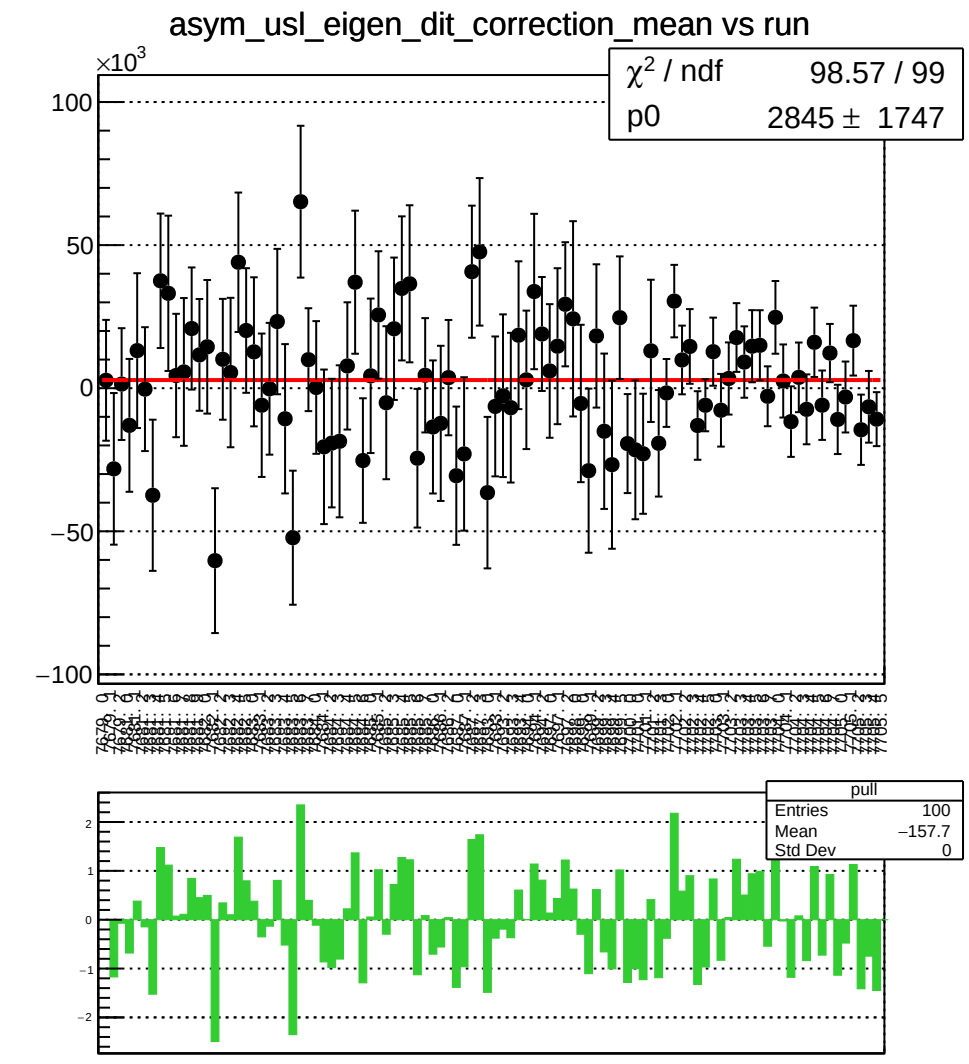

asym_usl_dit_correction_mean vs run
×10^3
χ^2 / ndf 98.57 / 99
p0 2845 ± 1747
100
50
0
−50
−100
pull
Entries 100
Mean −157.7
Std Dev 0
2
1
0
−1
−2

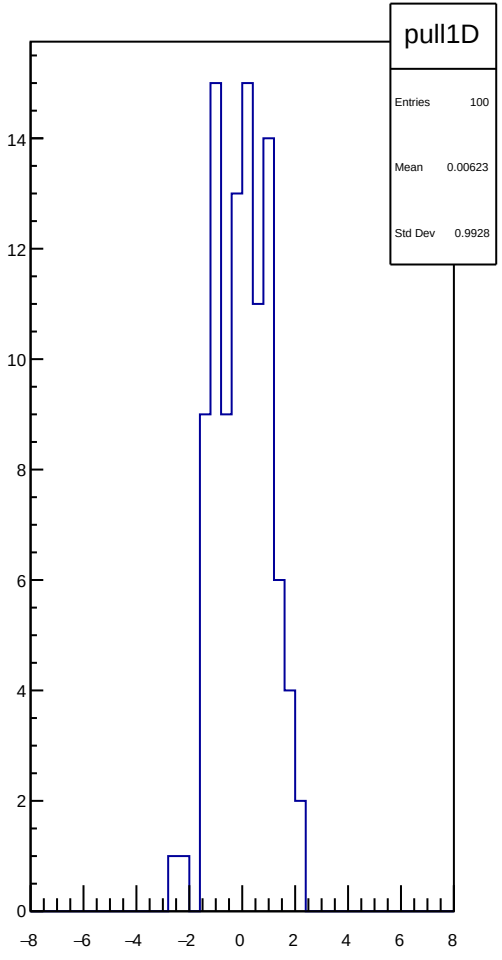

pull1D
Entries 100
Mean 0.00623
Std Dev 0.9928
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

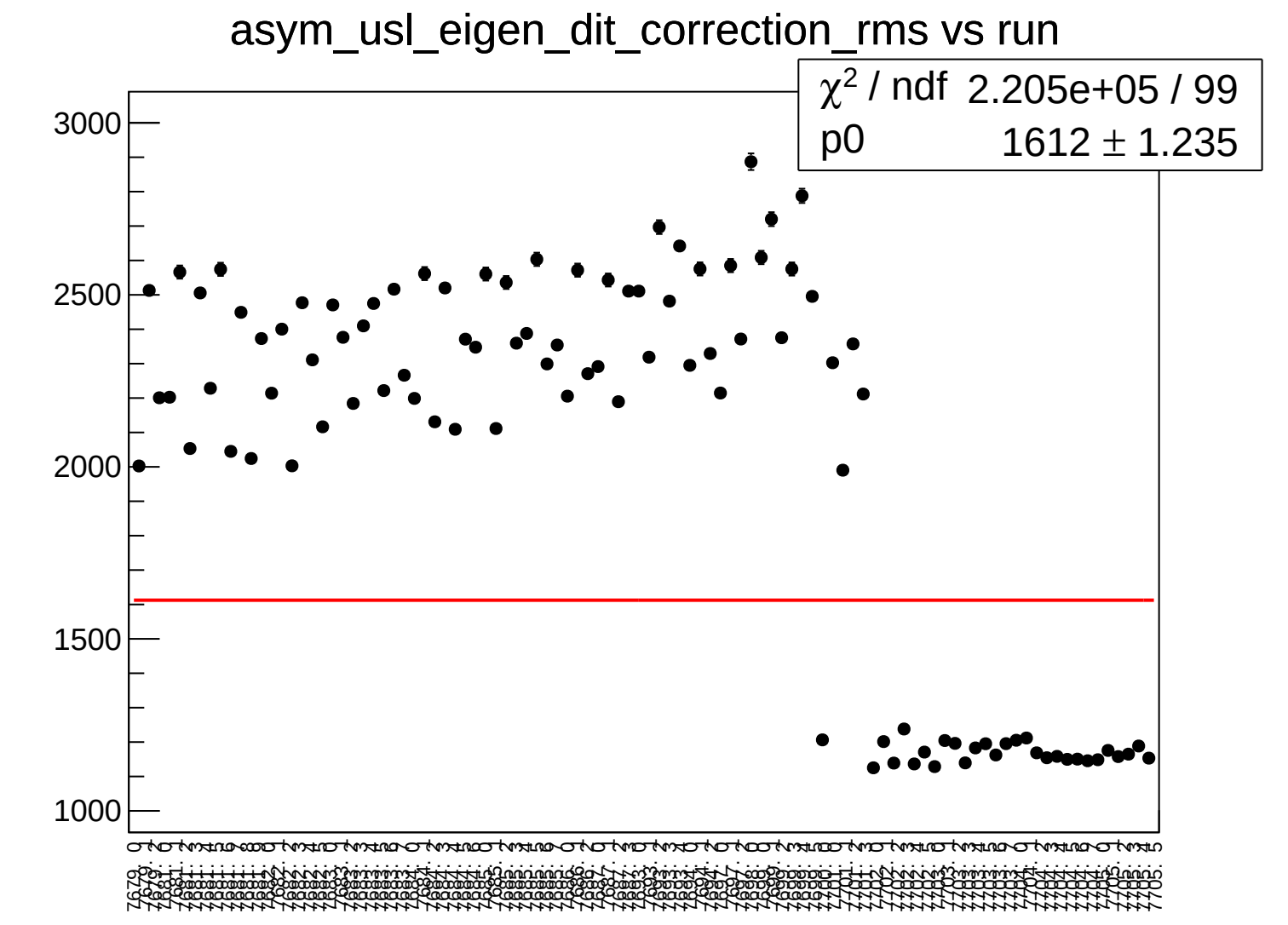

asym_usl_dit_correction_rms vs run
χ² / ndf 2.206e+05 / 99
p0 1612 ± 1.235
3000
2500
2000
1500
1000

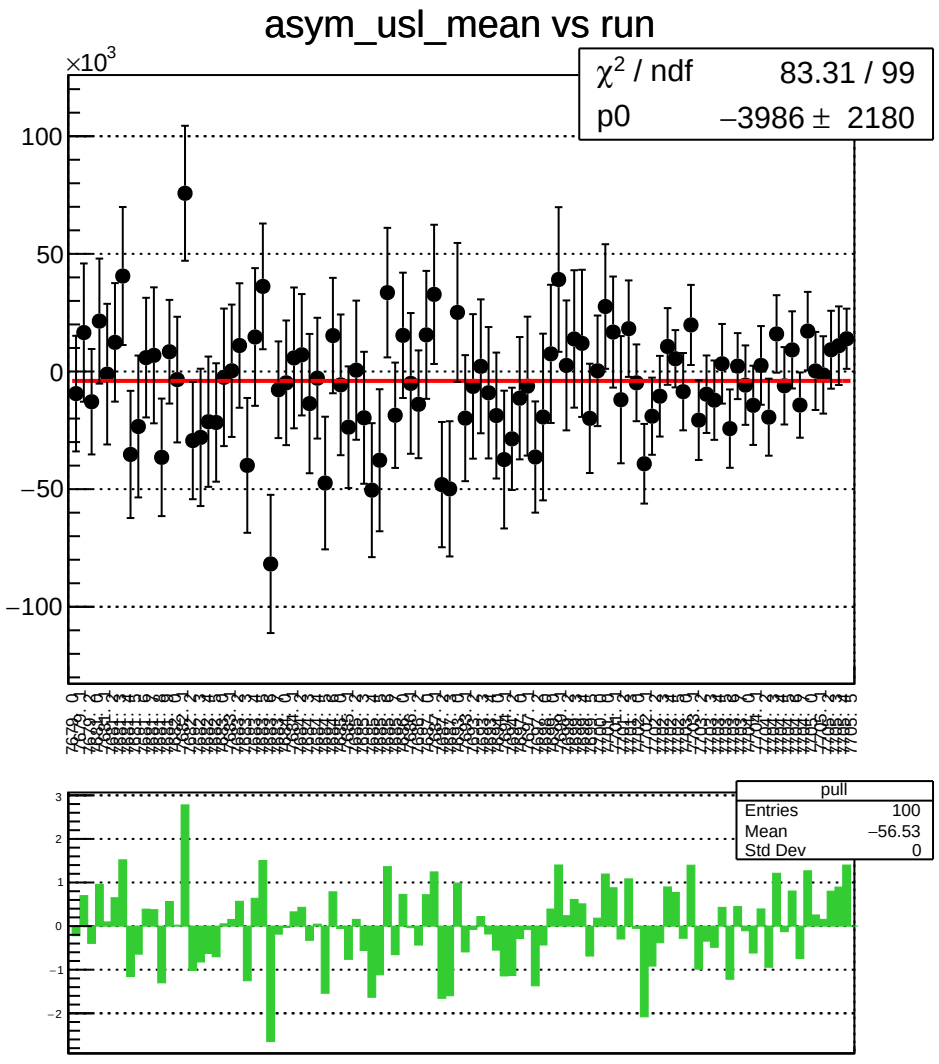

eigen_dit_asym_usl_mean vs run
χ² / ndf 88.11 / 99
p0 −1545 ± 1159
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 100
Mean −118.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.008614
Std Dev 0.9386
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

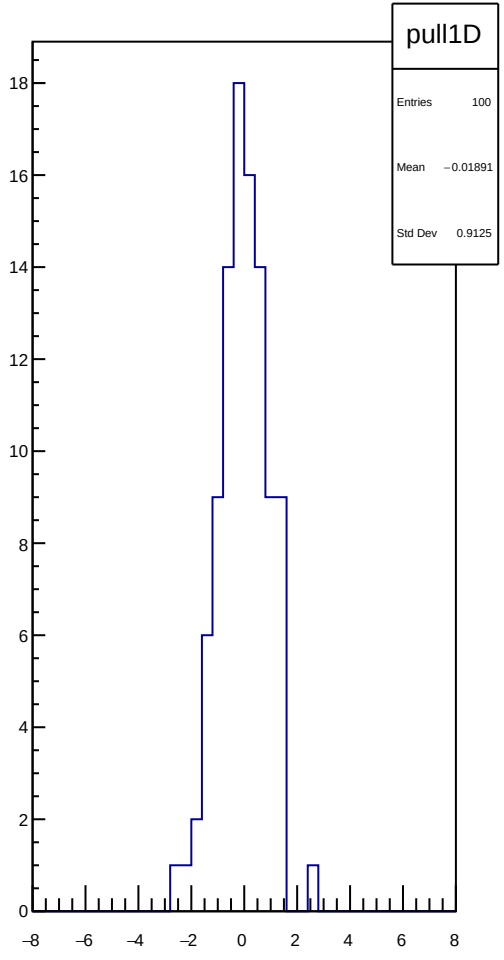

eigen_dit_asym_usl_rms vs run
χ² / ndf 6979 / 99
p0 1135 ± 0.8193
1300
1250
1200
1150
1100
1050

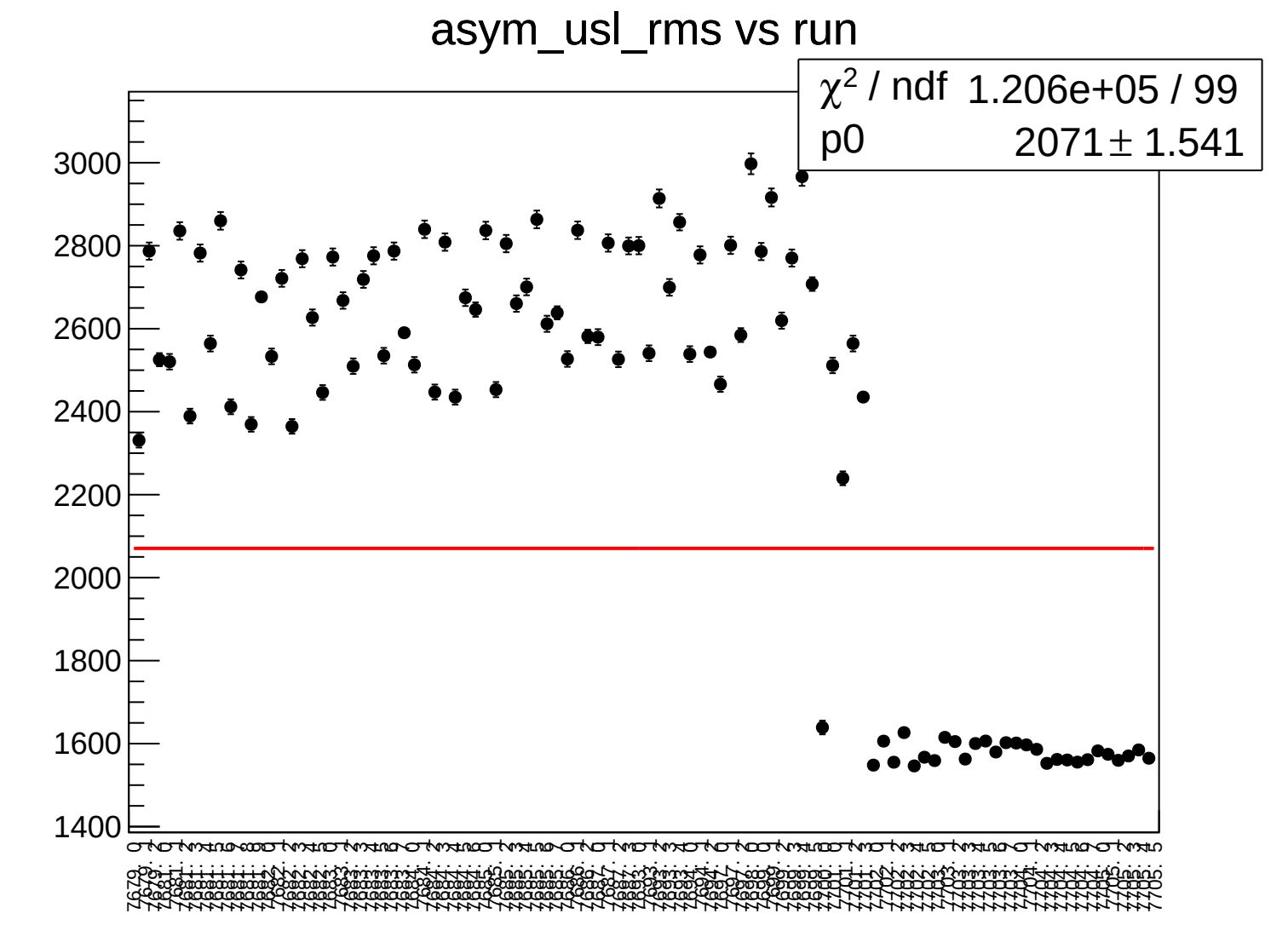

asym_usl_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 98.57 / 99
p0 2845 ± 1747
100
50
0
−50
−100
pull
Entries 100
Mean −157.7
Std Dev 0
2
1
0
−1
−2

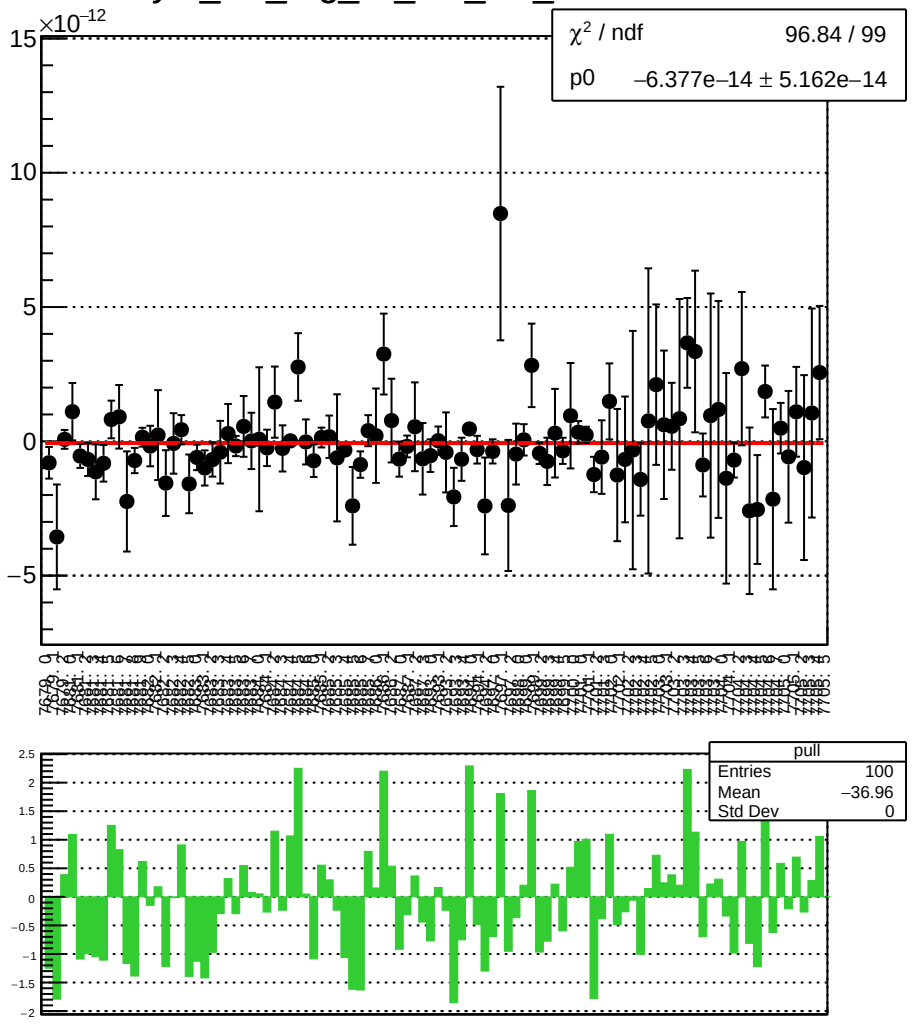

pull1D
Entries 100
Mean 0.00623
Std Dev 0.9928
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

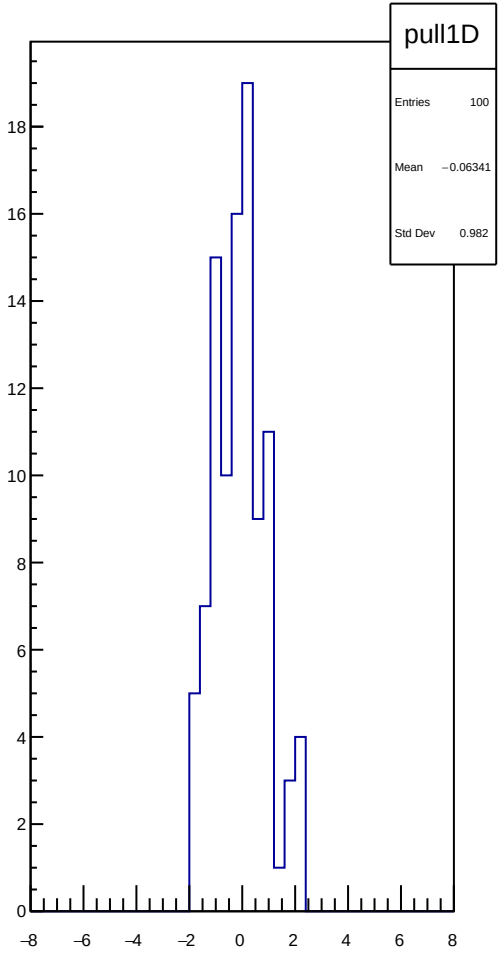

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 2.205e+05 / 99
p0 1612 ± 1.235
3000
2500
2000
1500
1000

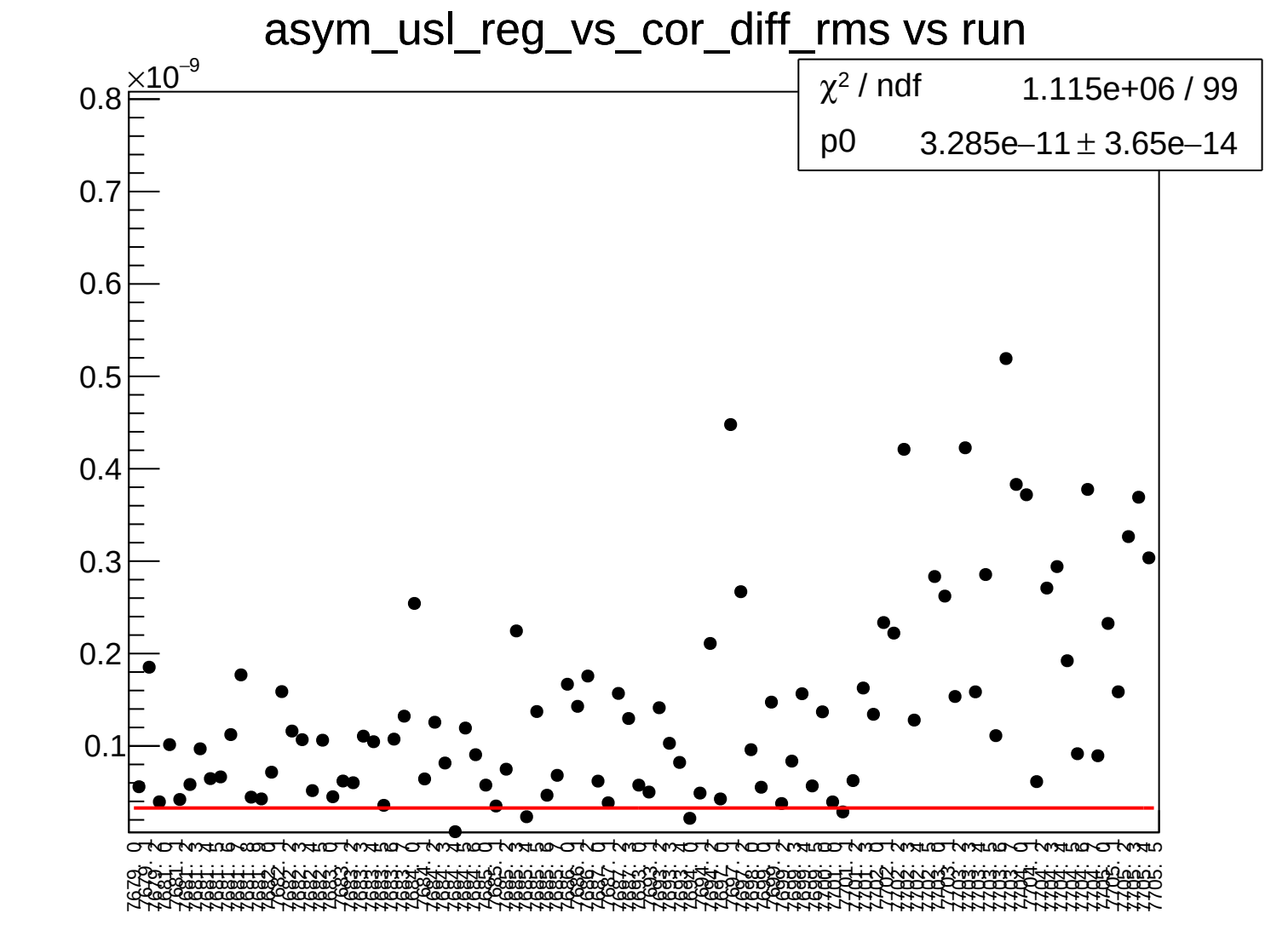

asym_usl_mean vs run
×10^3
χ^2 / ndf 83.31 / 99
p0 −3986 ± 2180
100
50
0
−50
−100
pull
Entries 100
Mean −56.53
Std Dev 0
3
2
1
0
−1
−2

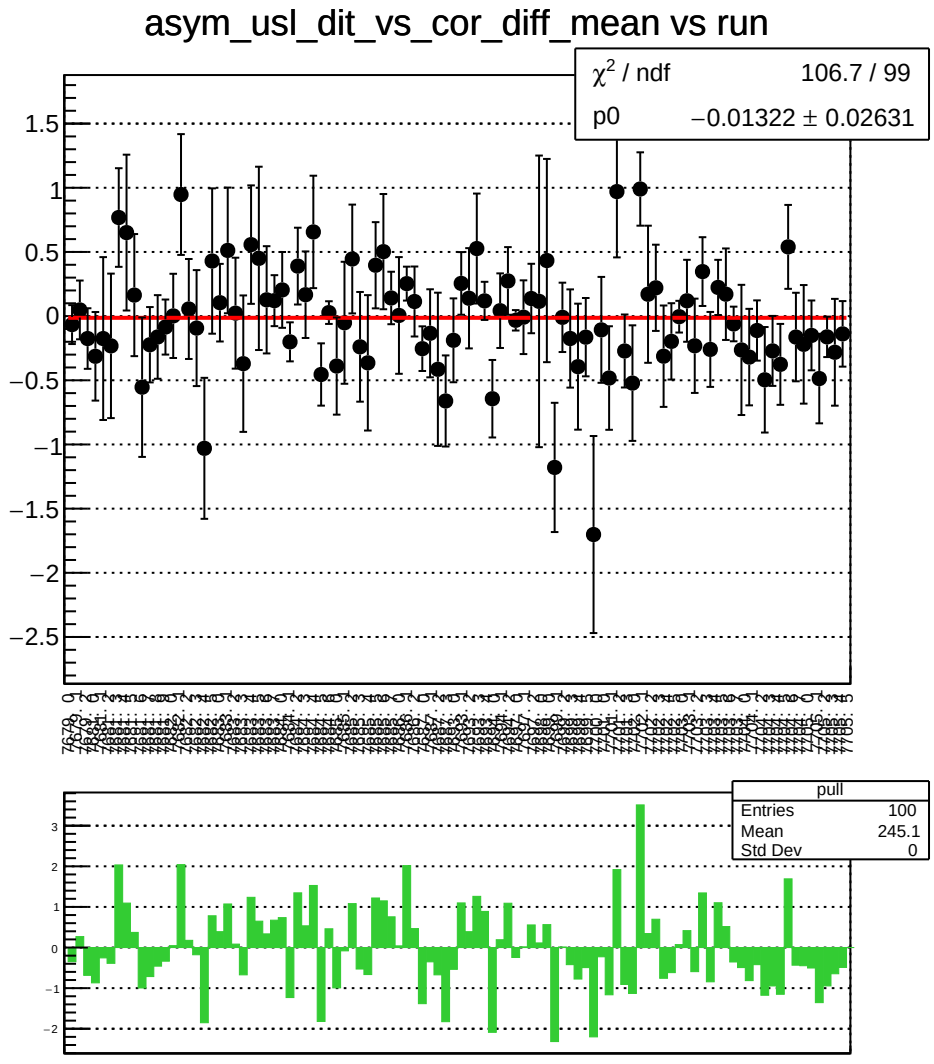

pull1D
Entries 100
Mean −0.01891
Std Dev 0.9125
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

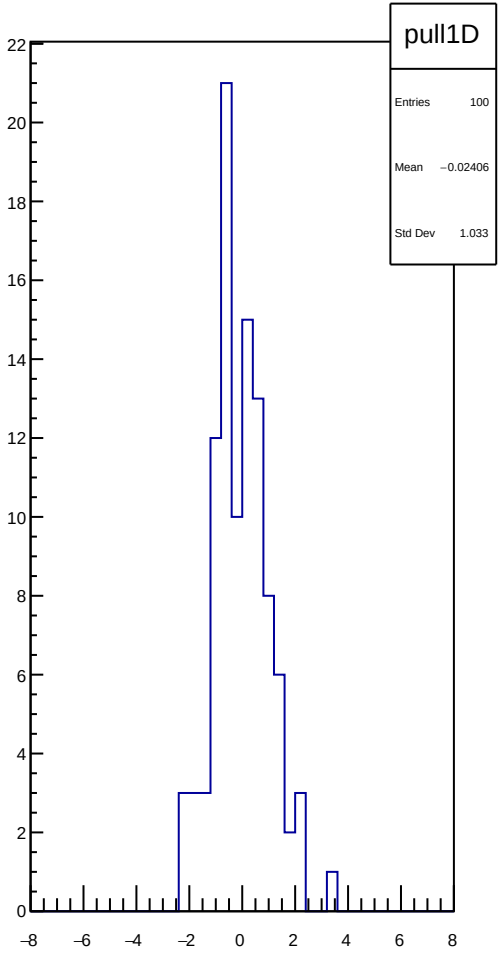

asym_usl_rms vs run
χ^2 / ndf 1.206e+05 / 99
p0 2071 ± 1.541
3000
2800
2600
2400
2200
2000
1800
1600
1400

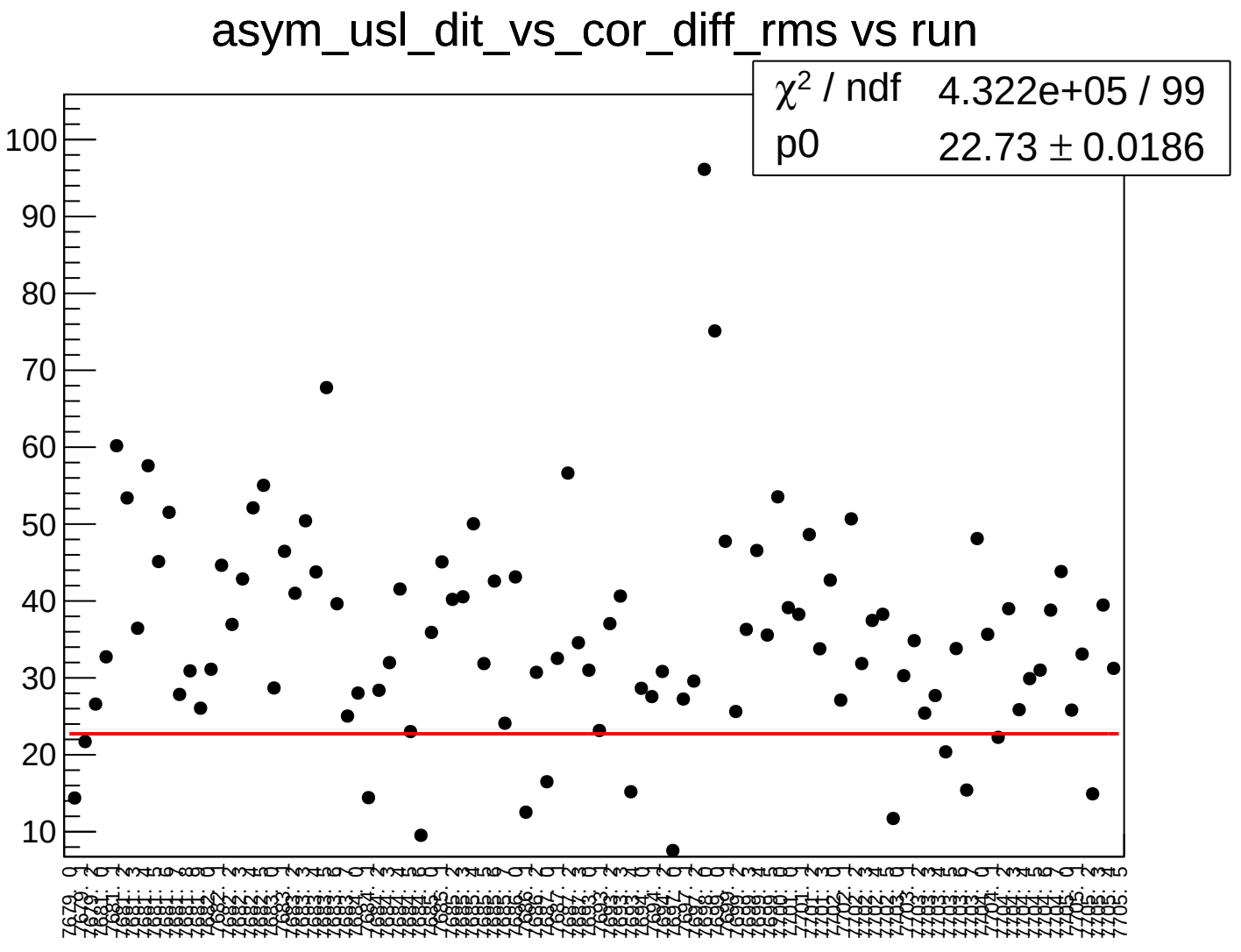

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.84 / 99
p0 −6.377e−14 ± 5.162e−14
pull
Entries 100
Mean −36.96
Std Dev 0

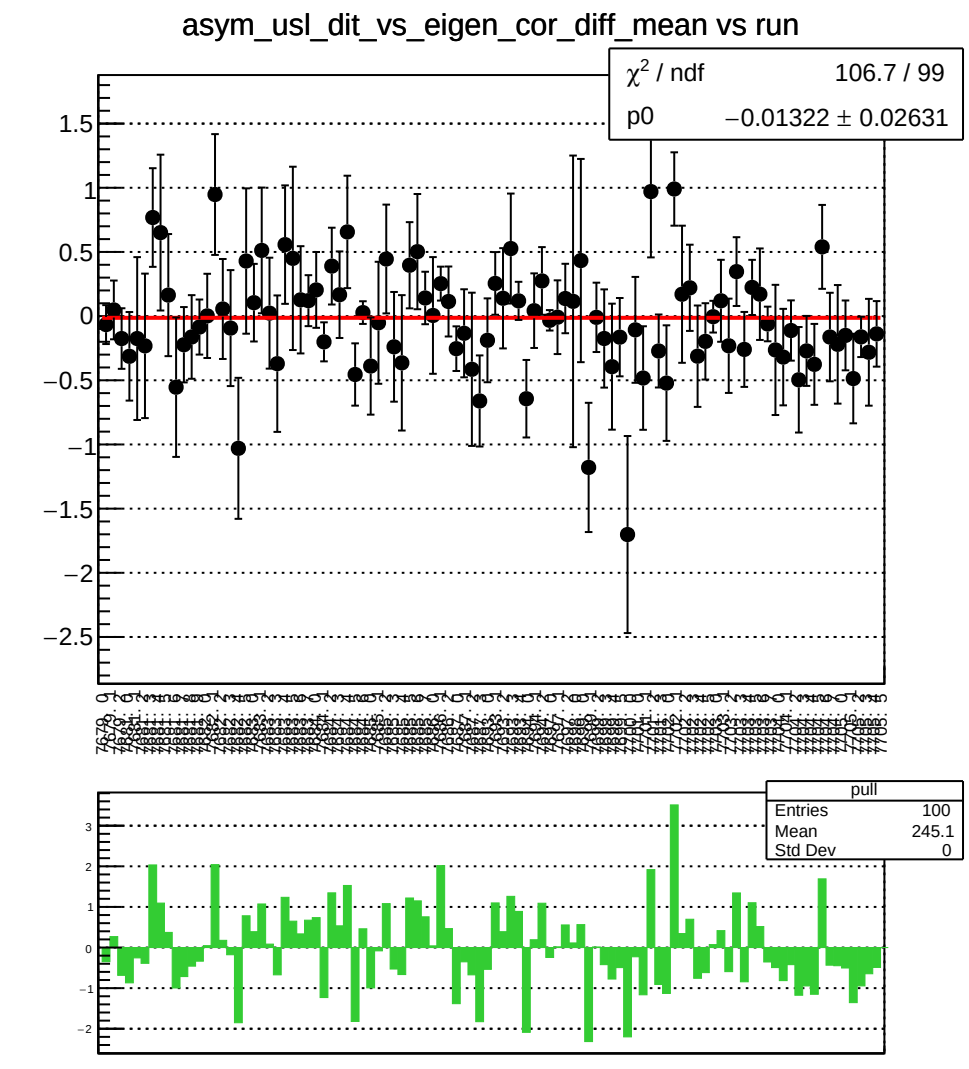

pull1D
Entries 100
Mean −0.06341
Std Dev 0.982

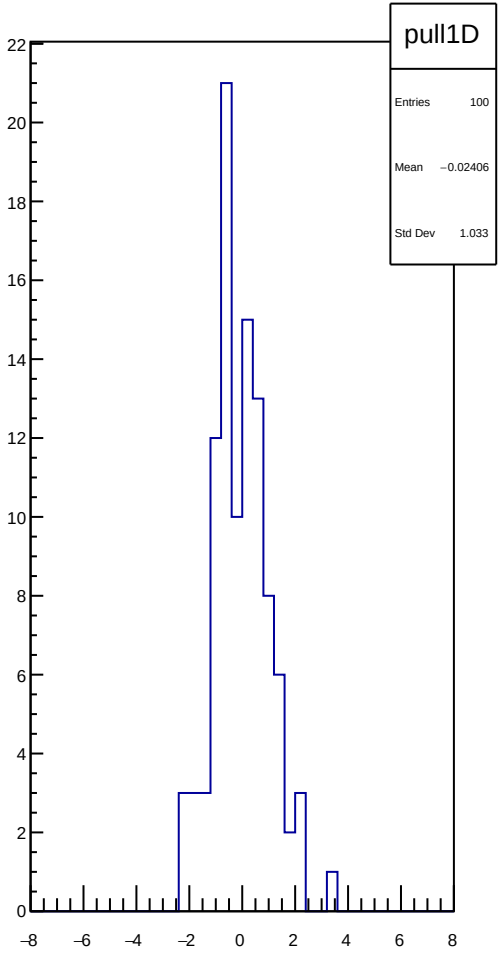

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 1.115e+06 / 99
p0 3.285e−11 ± 3.65e−14

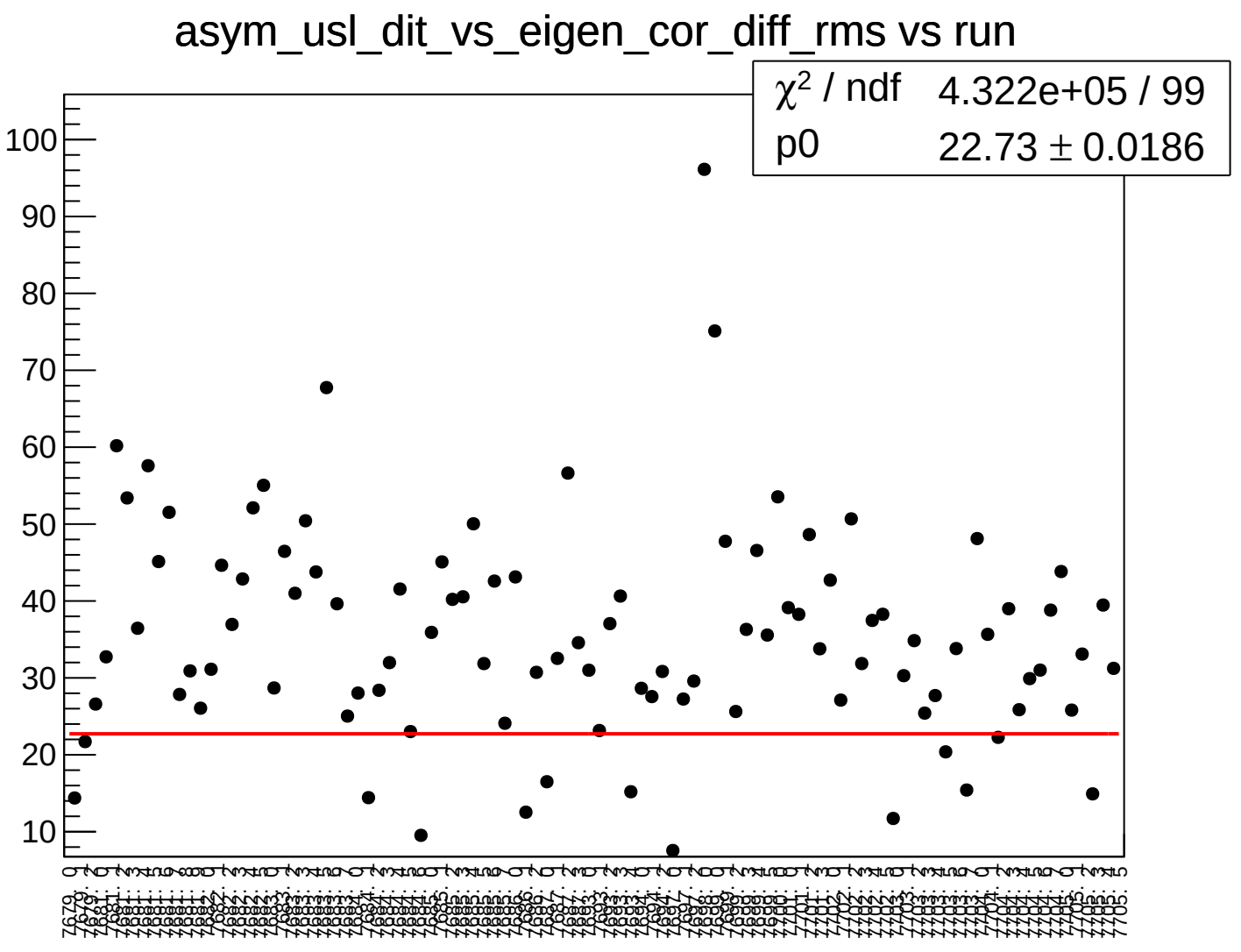

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 106.7 / 99
p0 −0.01322 ± 0.02631
pull
Entries 100
Mean 245.1
Std Dev 0

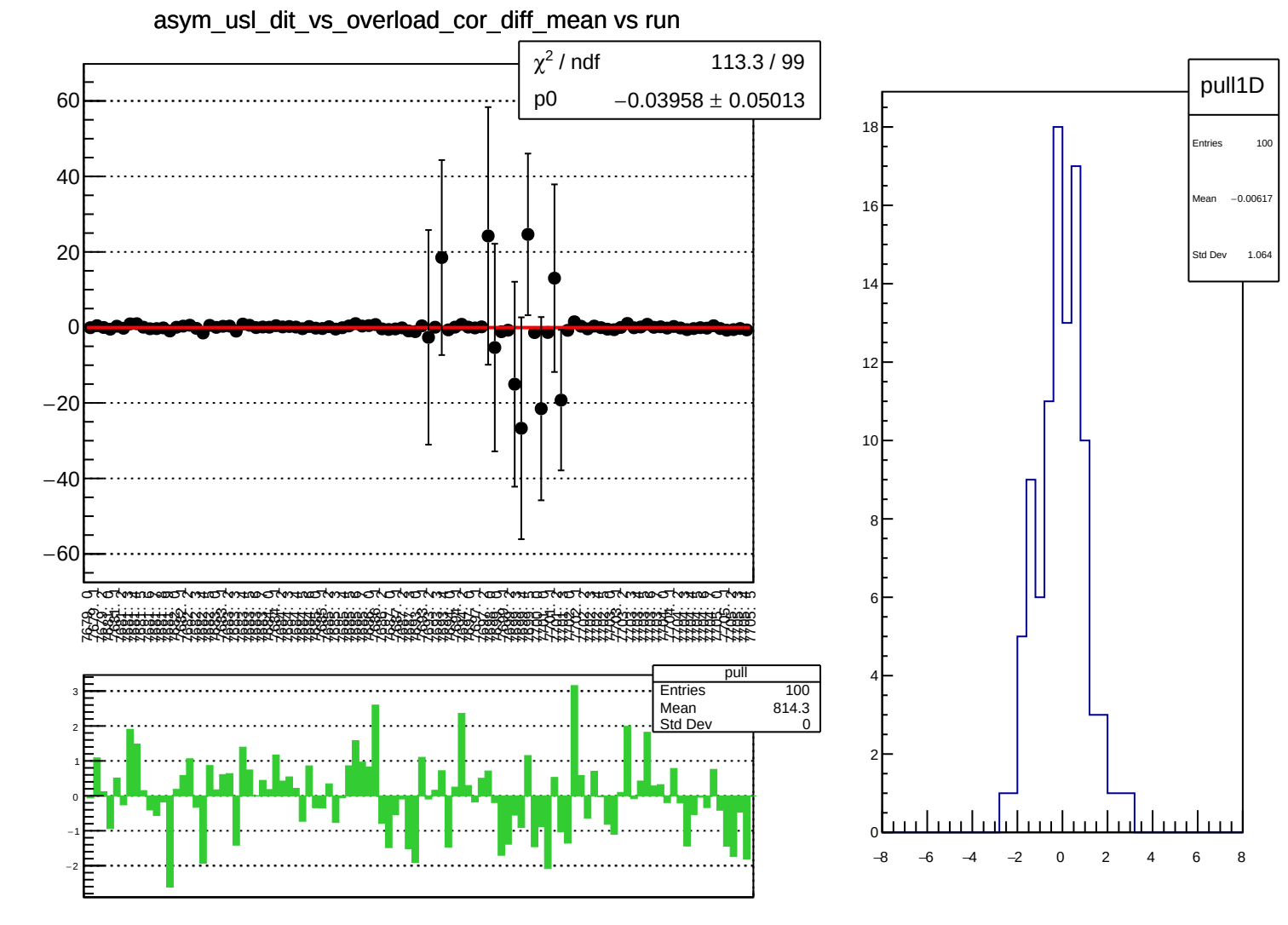

pull1D
Entries 100
Mean −0.02406
Std Dev 1.033

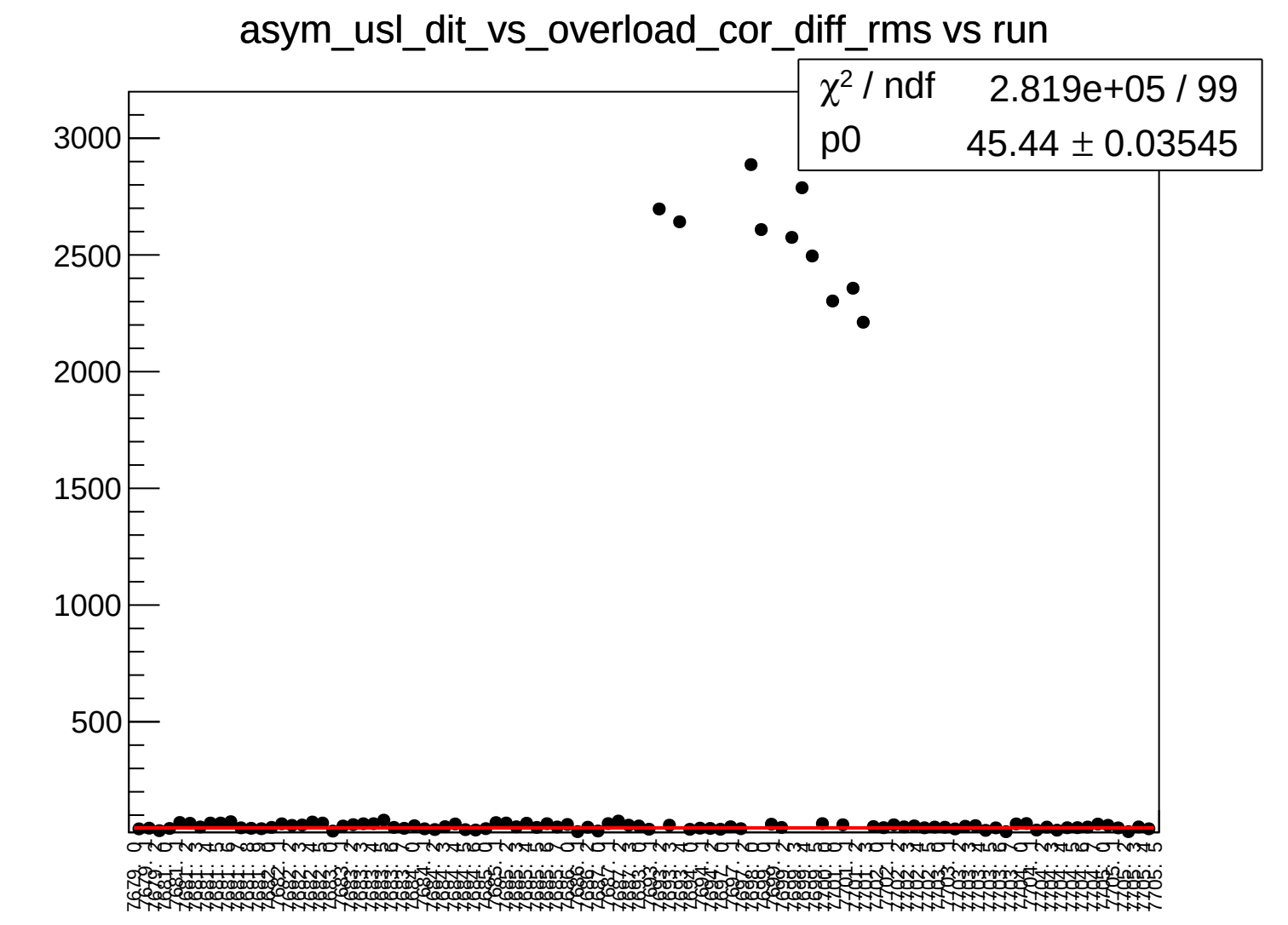

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 4.322e+05 / 99
p0 22.73 ± 0.0186
100
90
80
70
60
50
40
30
20
10

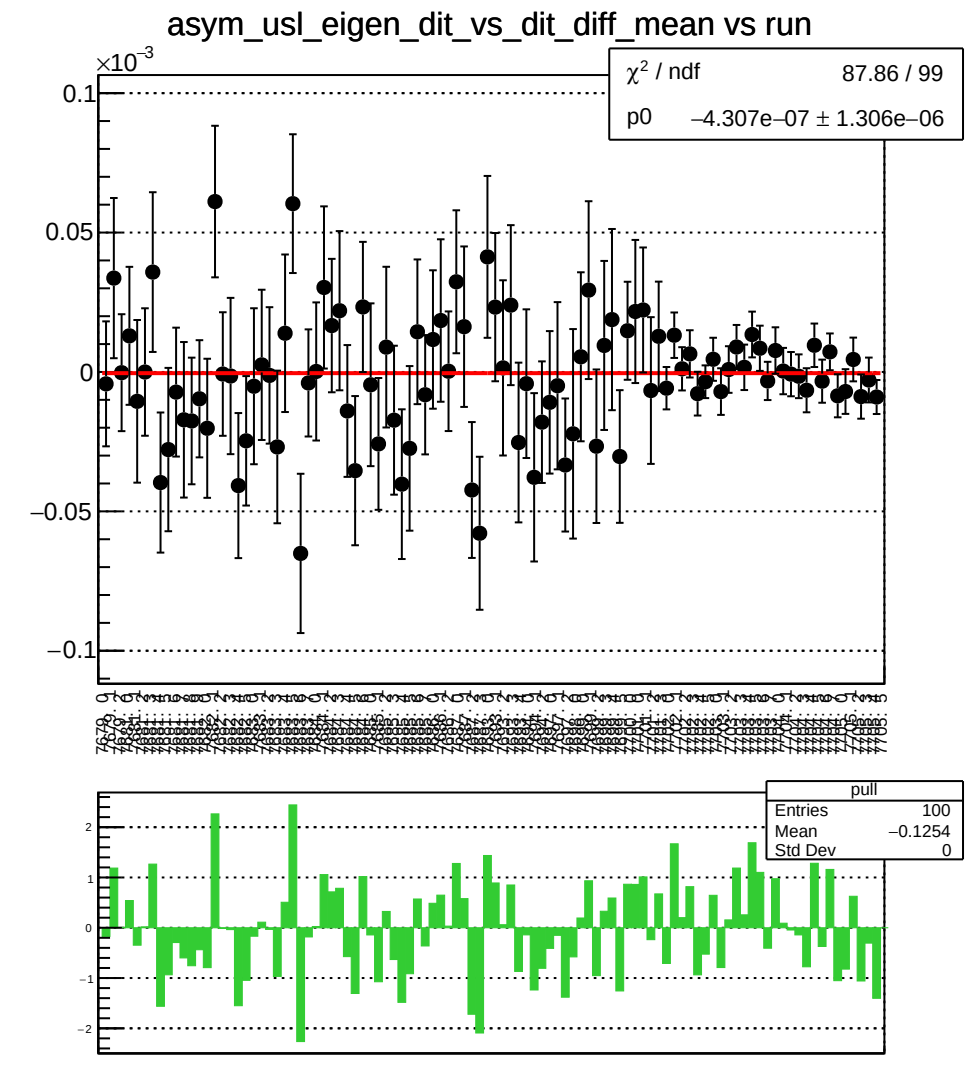

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.7 / 99
p0 −0.01322 ± 0.02631
pull
Entries 100
Mean 245.1
Std Dev 0

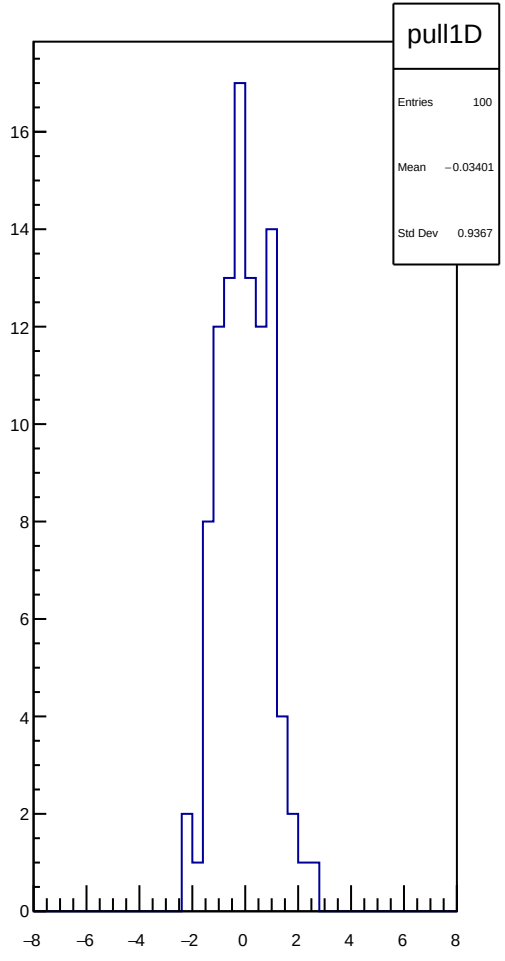

pull1D
Entries 100
Mean −0.02406
Std Dev 1.033

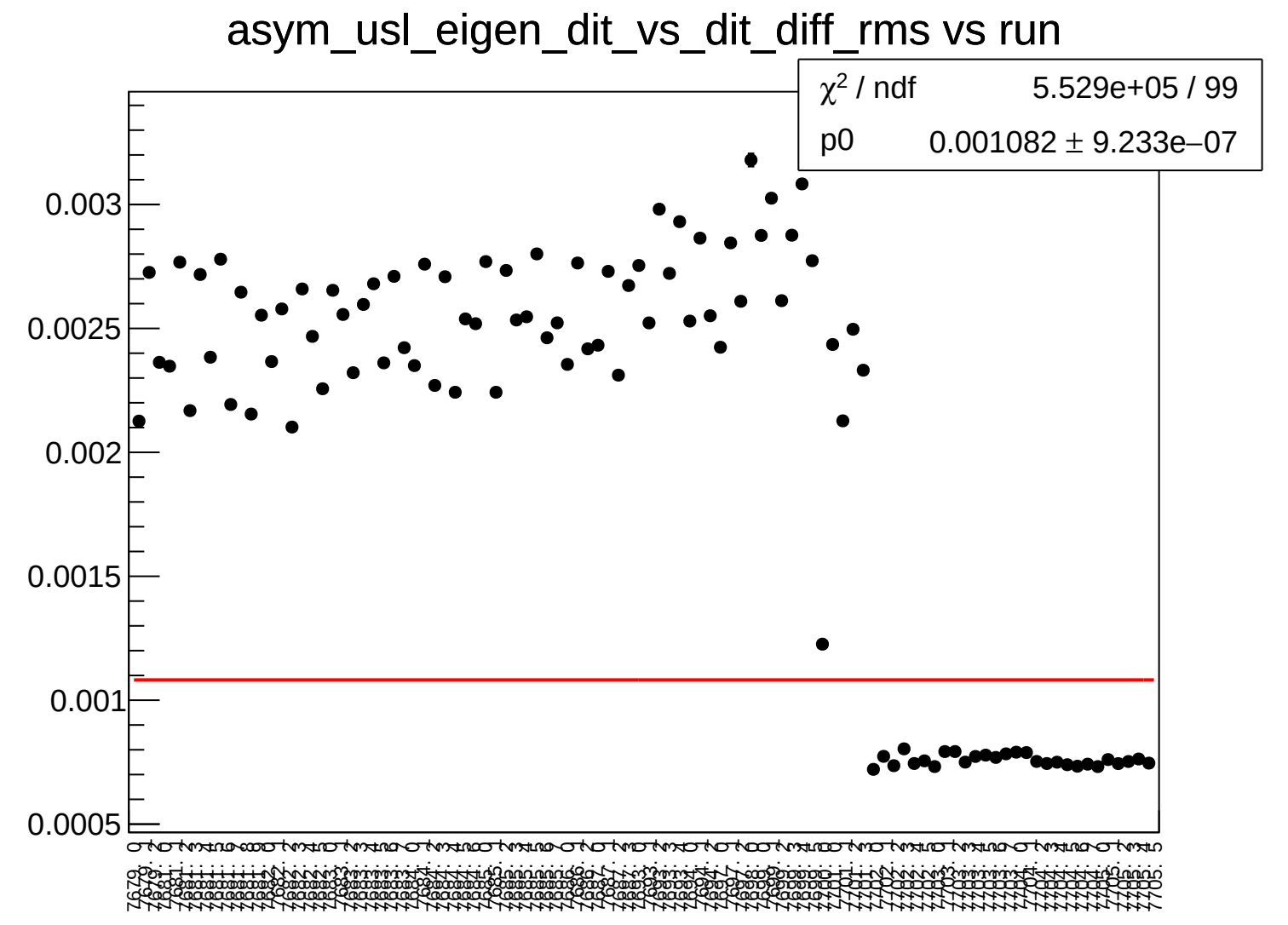

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.322e+05 / 99
p0 22.73 ± 0.0186
100
90
80
70
60
50
40
30
20
10

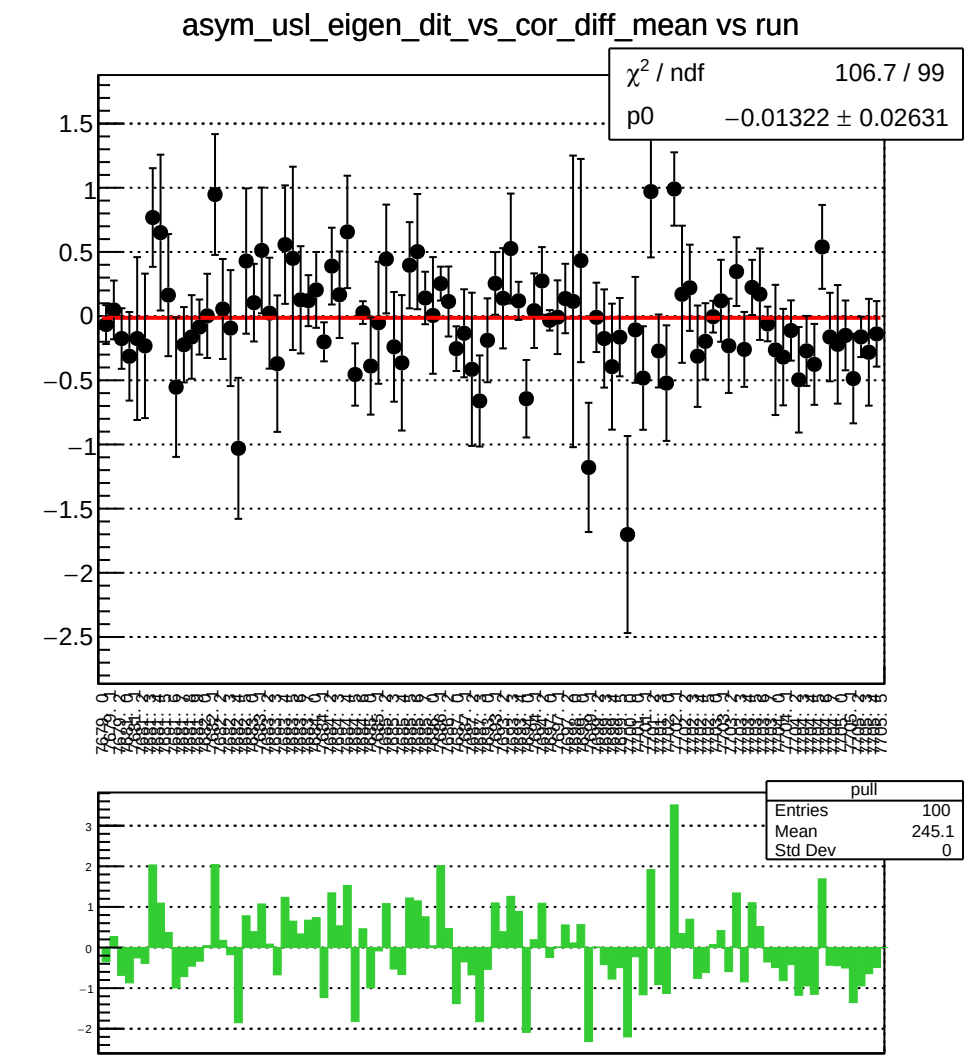

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 113.3 / 99
p0 −0.03958 ± 0.05013
pull
Entries 100
Mean 814.3
Std Dev 0
pull1D
Entries 100
Mean −0.00617
Std Dev 1.064

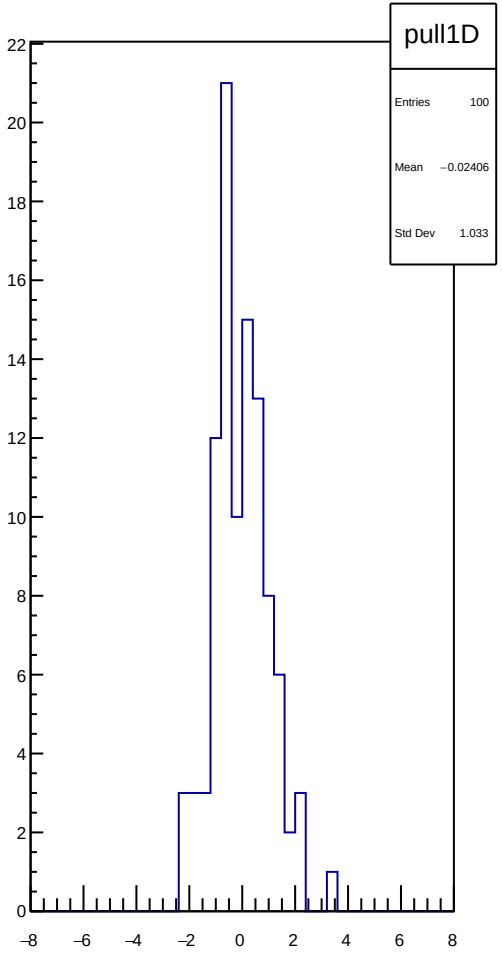

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.819e+05 / 99
p0 45.44 ± 0.03545
3000
2500
2000
1500
1000
500

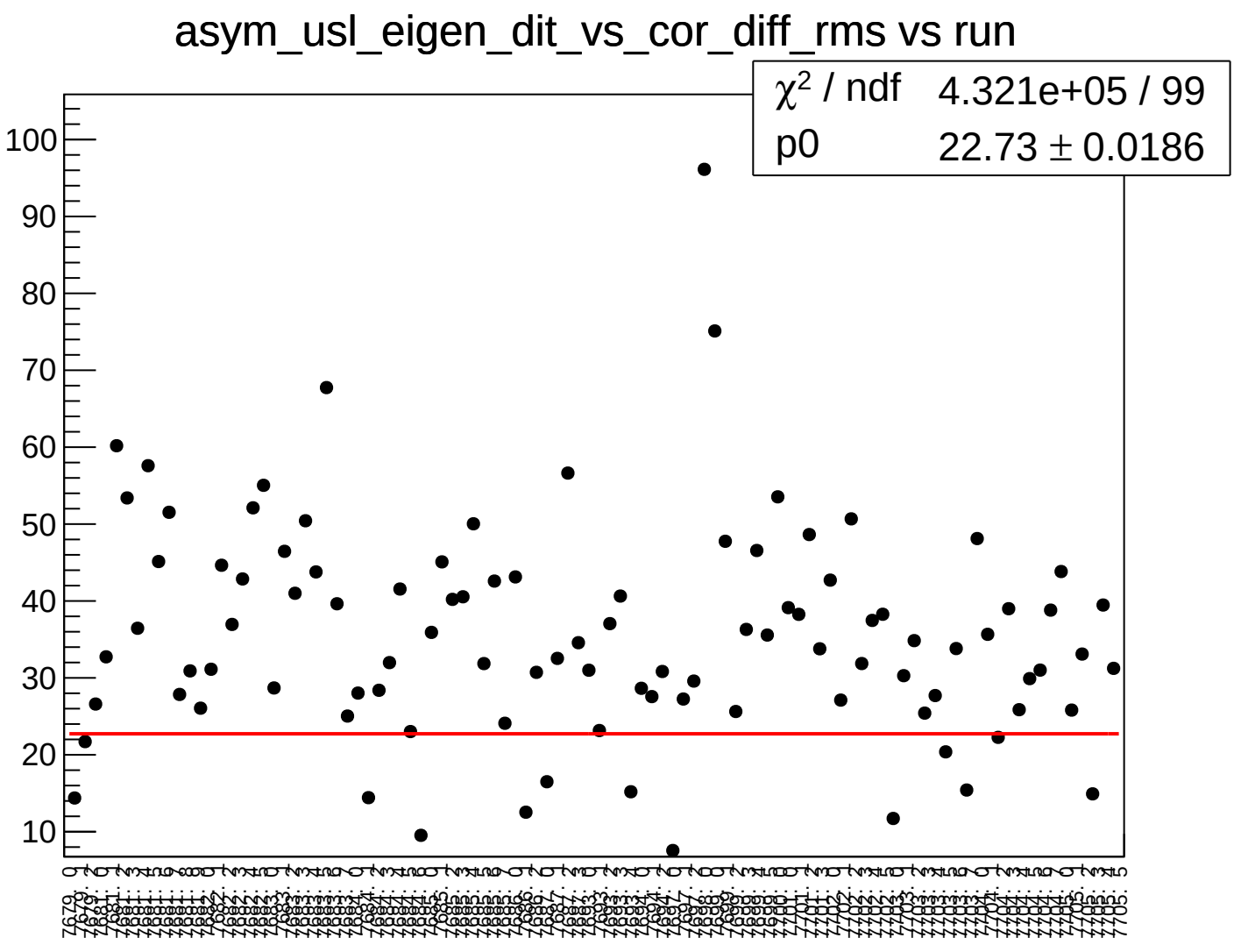

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.86 / 99
p0 −4.307e−07 ± 1.306e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 100
Mean −0.1254
Std Dev 0
2
1
0
−1
−2

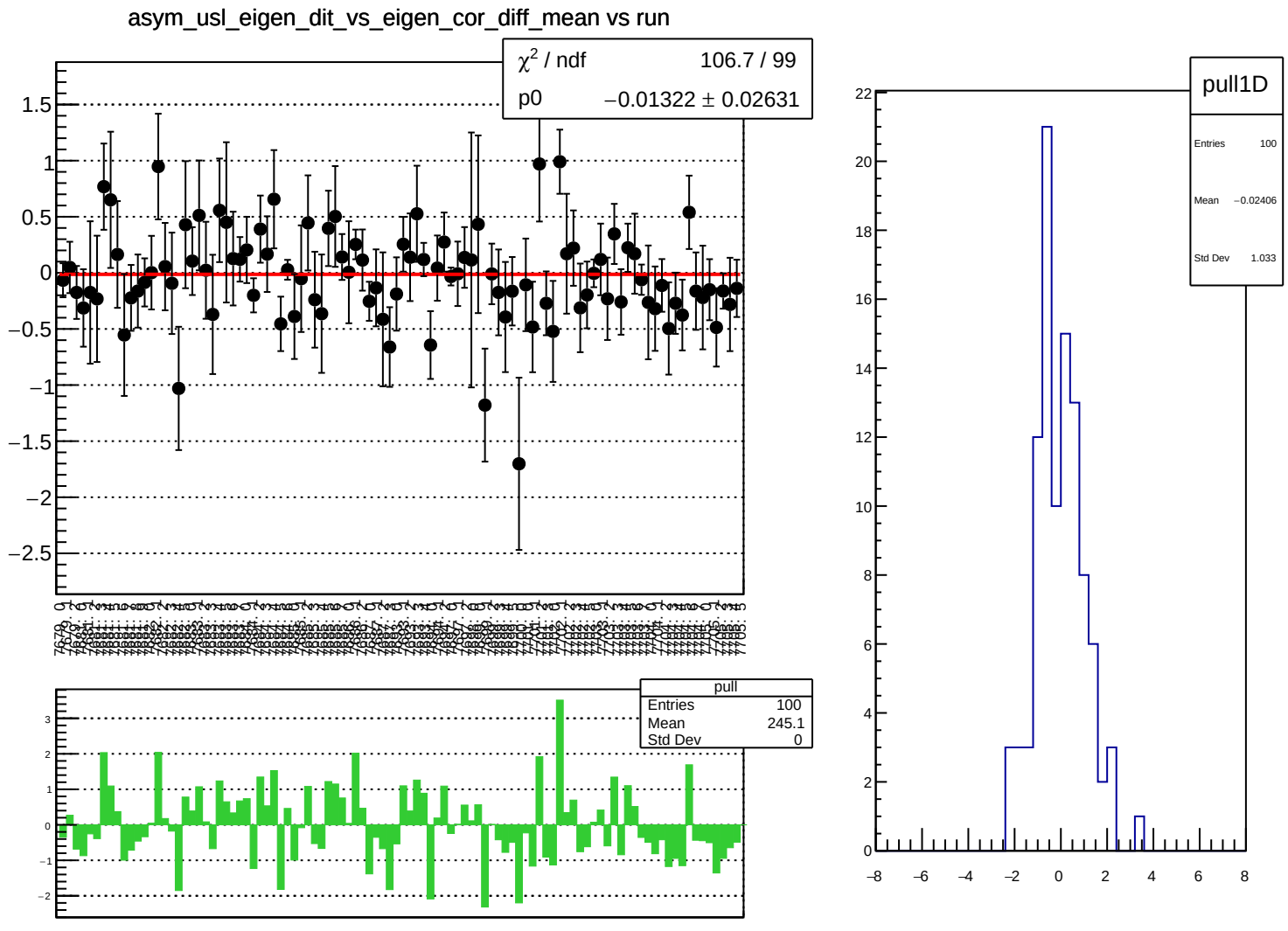

pull1D
Entries 100
Mean −0.03401
Std Dev 0.9367
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

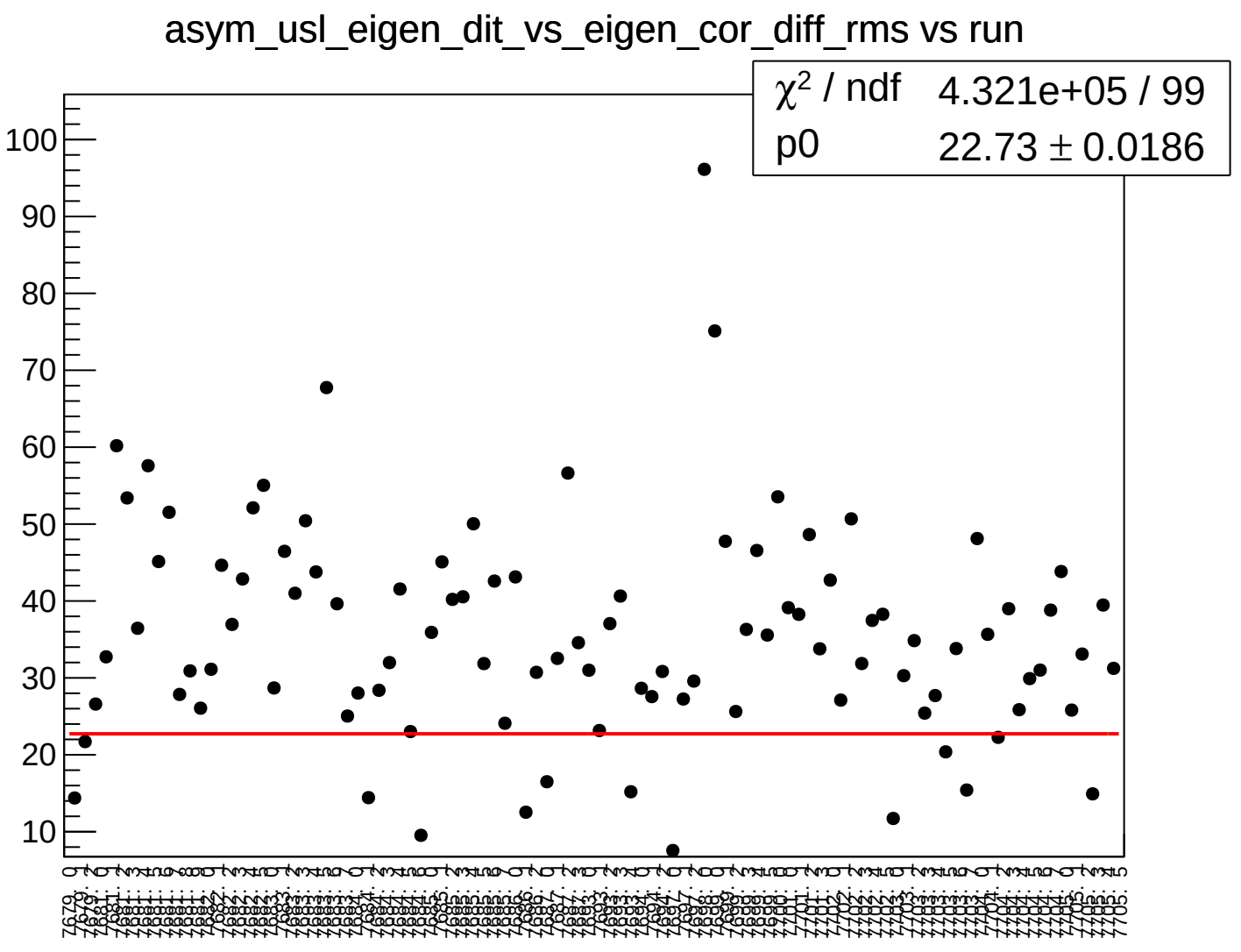

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.529e+05 / 99
p0 0.001082 ± 9.233e−07
0.003
0.0025
0.002
0.0015
0.001
0.0005

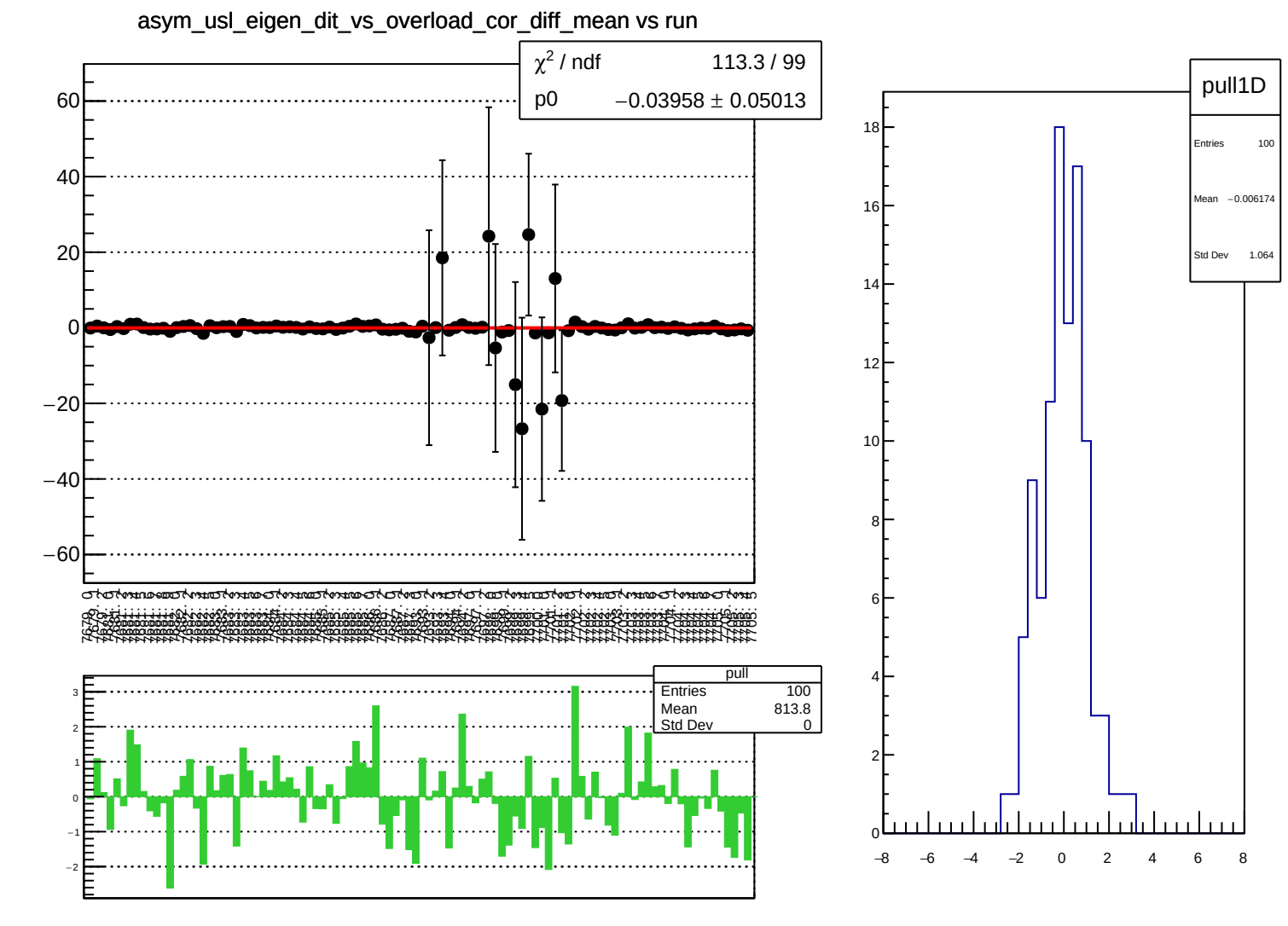

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.7 / 99
p0 −0.01322 ± 0.02631
pull
Entries 100
Mean 245.1
Std Dev 0

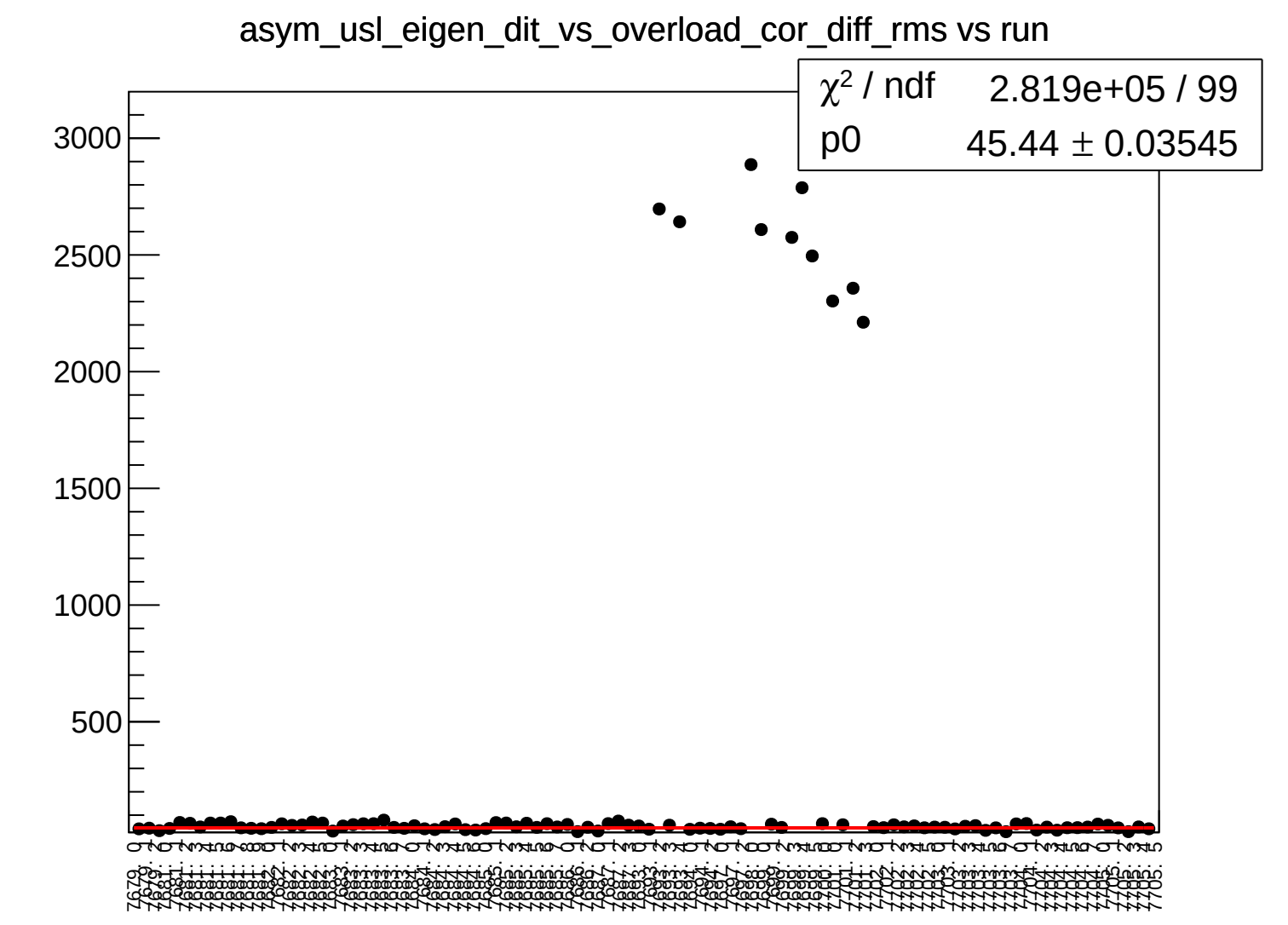

pull1D
Entries 100
Mean −0.02406
Std Dev 1.033

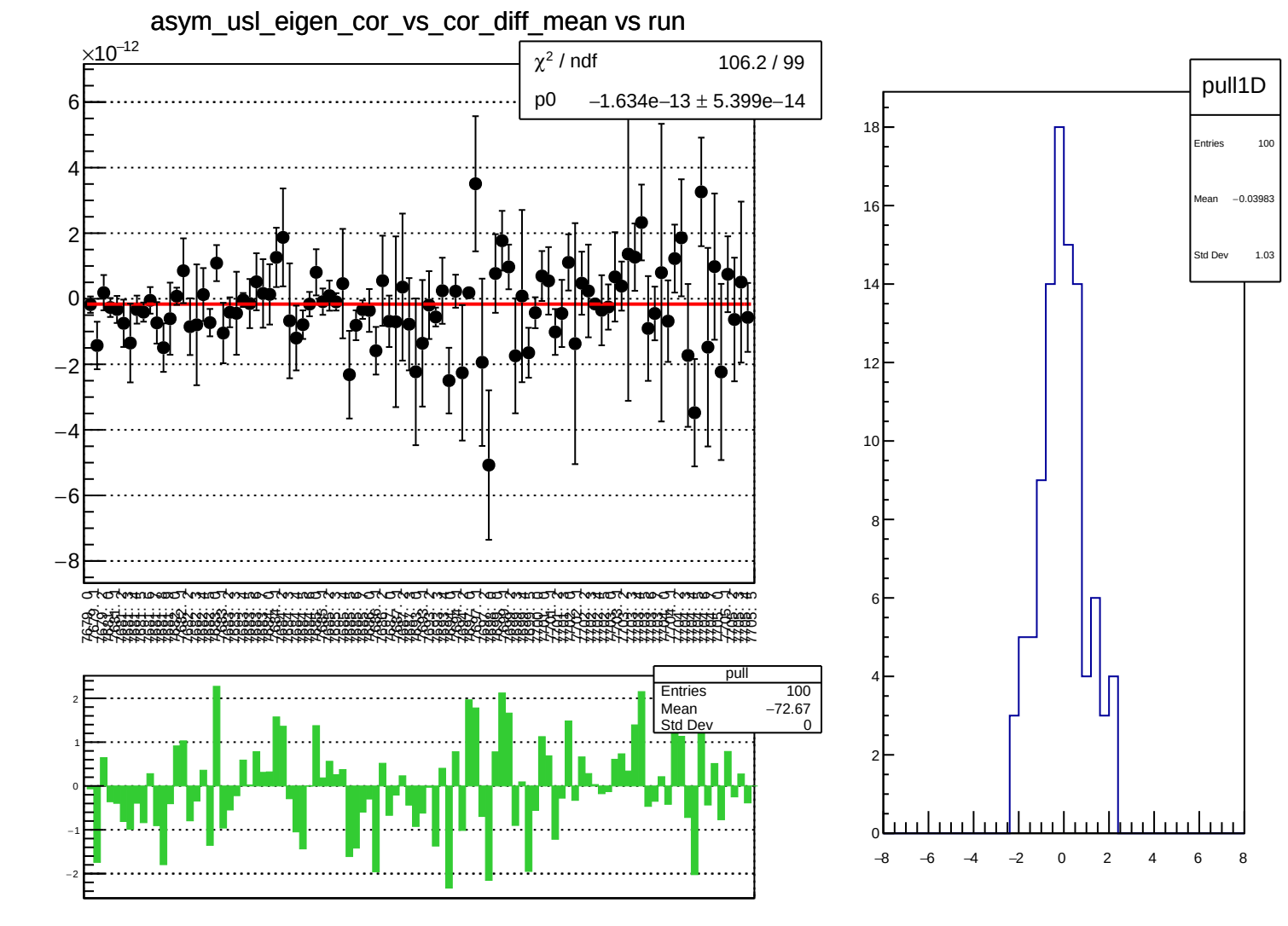

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.321e+05 / 99
p0 22.73 ± 0.0186
100
90
80
70
60
50
40
30
20
10

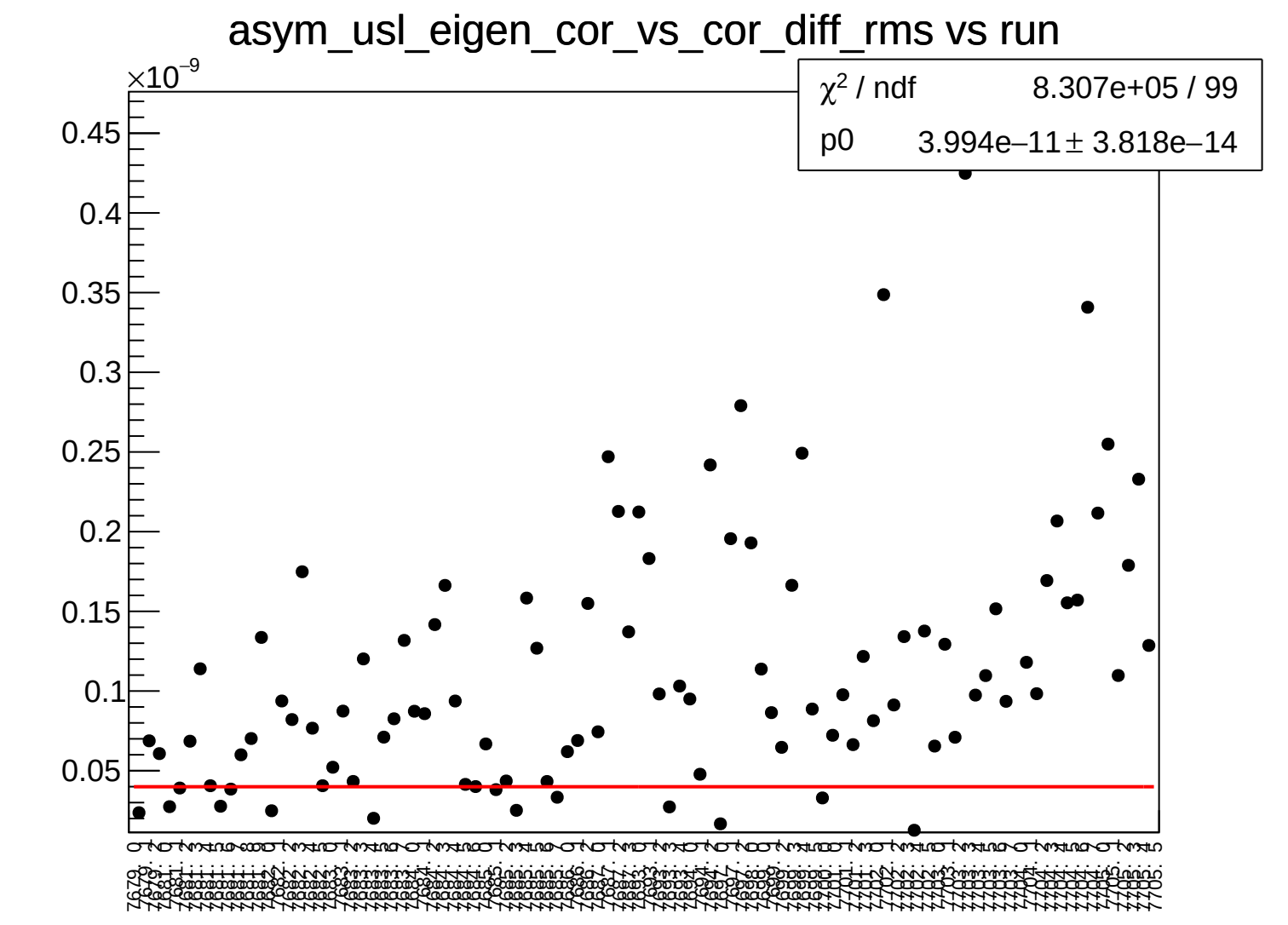

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.7 / 99
p0 −0.01322 ± 0.02631
pull
Entries 100
Mean 245.1
Std Dev 0
pull1D
Entries 100
Mean −0.02406
Std Dev 1.033

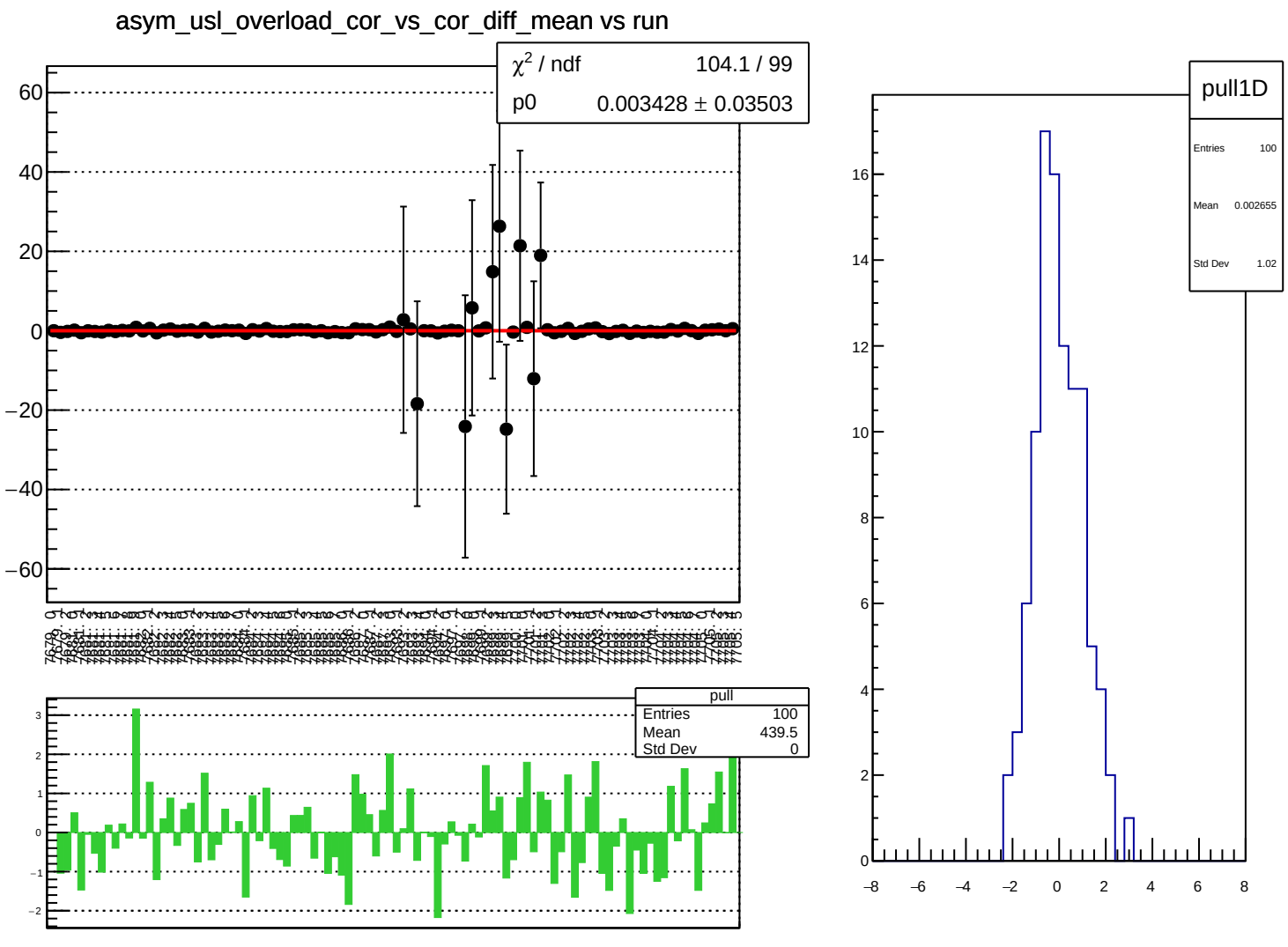

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.321e+05 / 99
p0 22.73 ± 0.0186
100
90
80
70
60
50
40
30
20
10

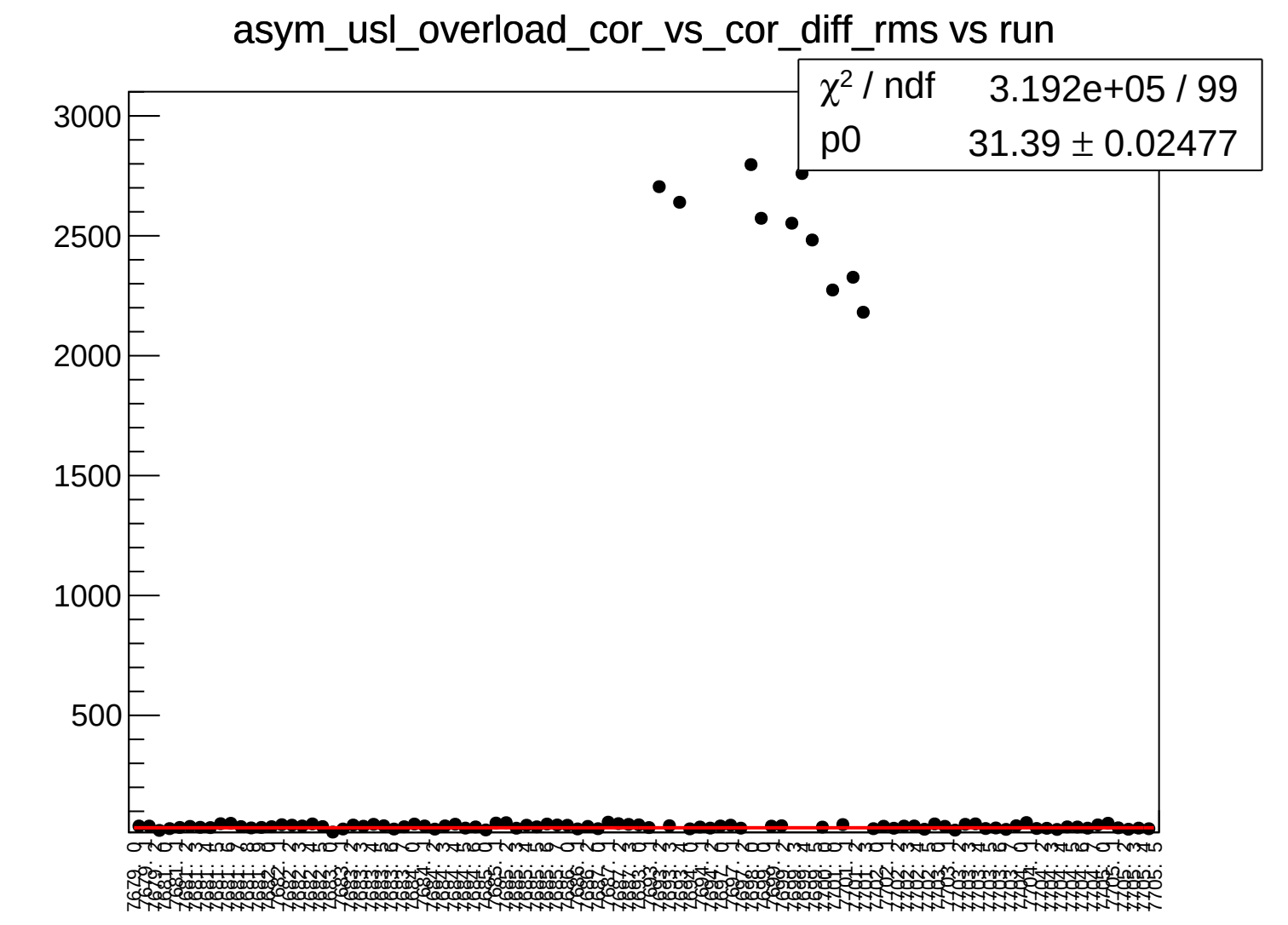

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 113.3 / 99
p0 −0.03958 ± 0.05013
pull
Entries 100
Mean 813.8
Std Dev 0
pull1D
Entries 100
Mean −0.006174
Std Dev 1.064

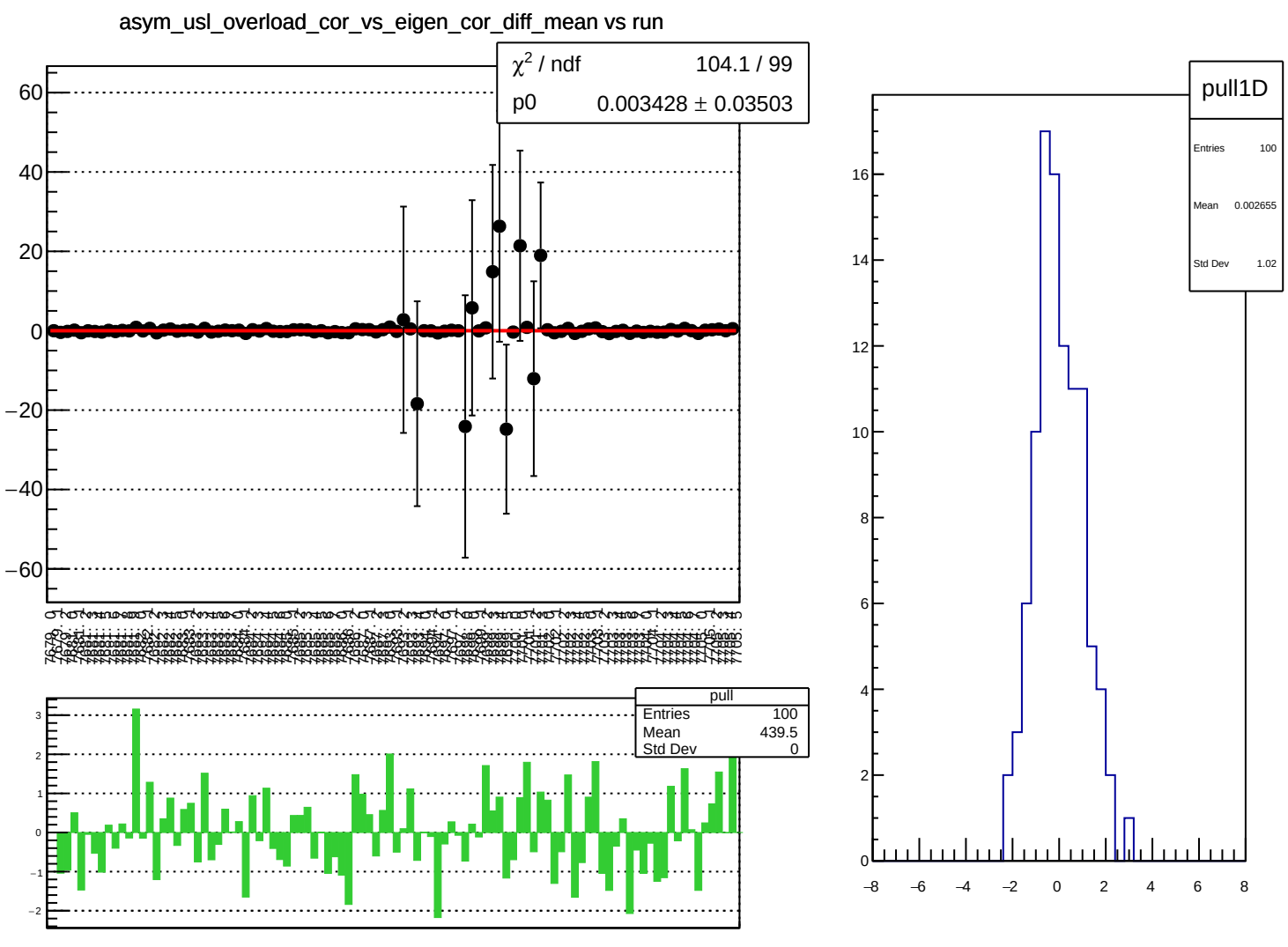

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.819e+05 / 99
p0 45.44 ± 0.03545
3000
2500
2000
1500
1000
500

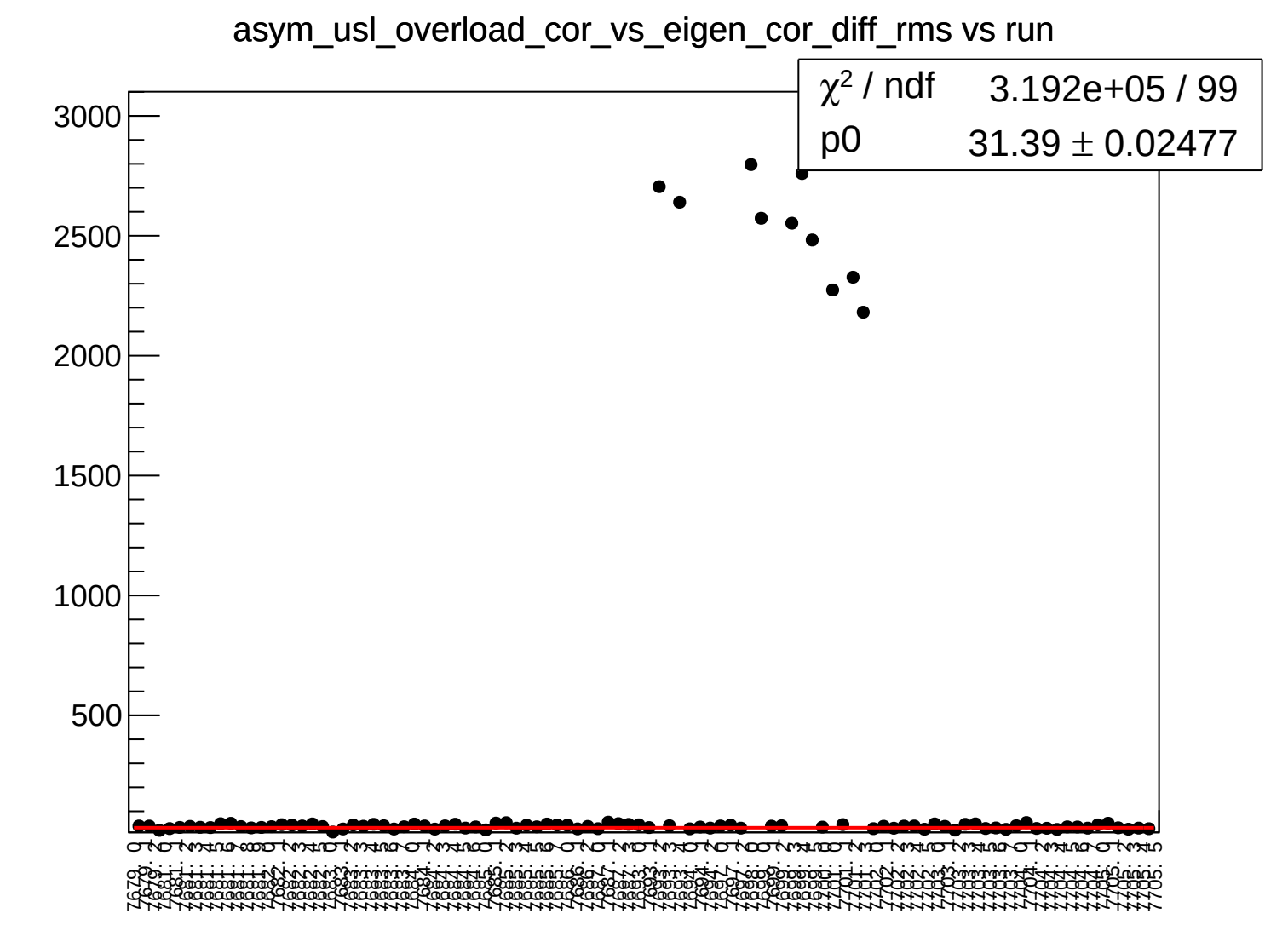

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 106.2 / 99
p0 −1.634e−13 ± 5.399e−14
pull
Entries 100
Mean −72.67
Std Dev 0
pull1D
Entries 100
Mean −0.03983
Std Dev 1.03

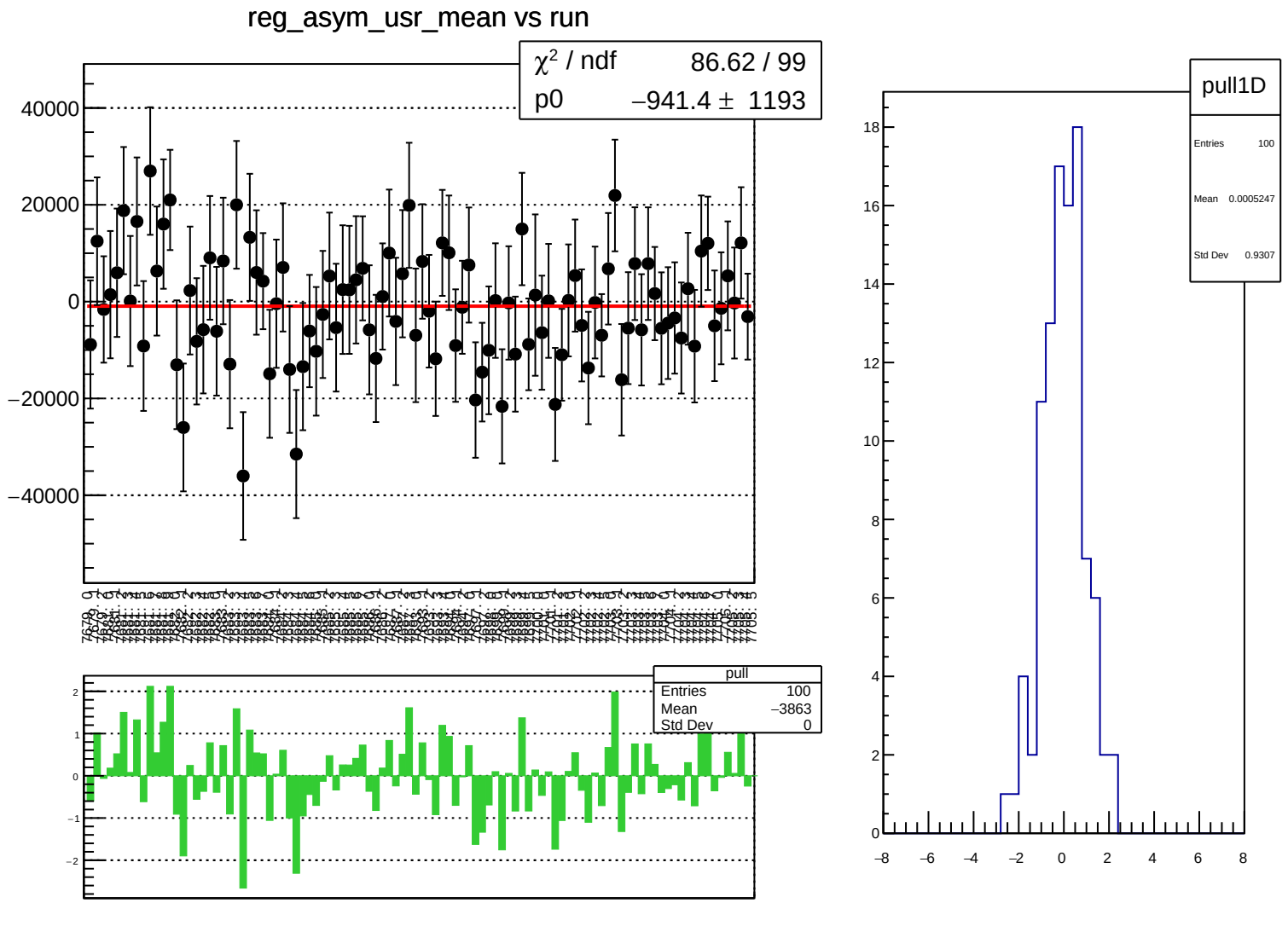

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.307e+05 / 99
p0 3.994e−11 ± 3.818e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

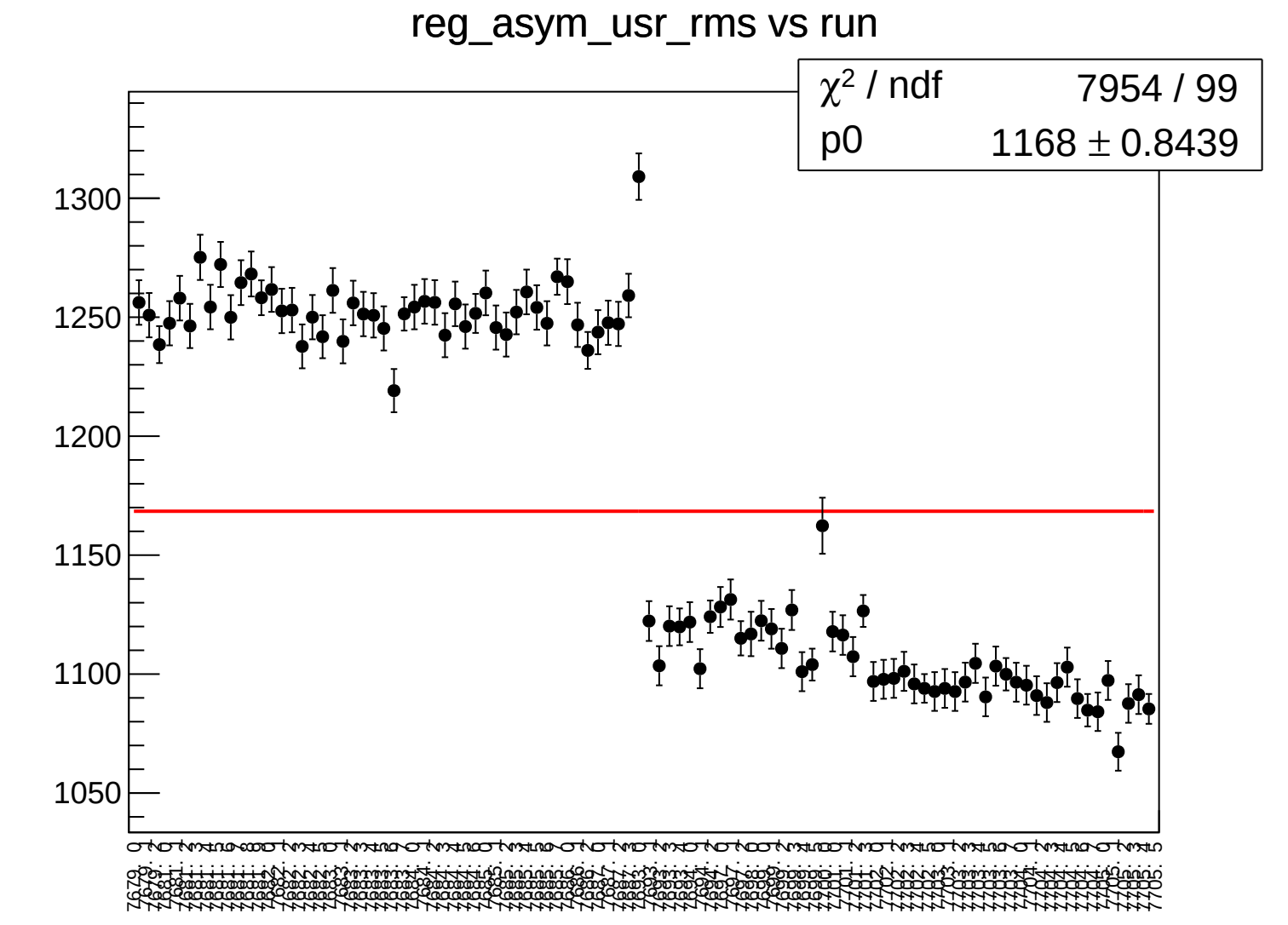

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 104.1 / 99
p0 0.003428 ± 0.03503
pull
Entries 100
Mean 439.5
Std Dev 0
pull1D
Entries 100
Mean 0.002655
Std Dev 1.02

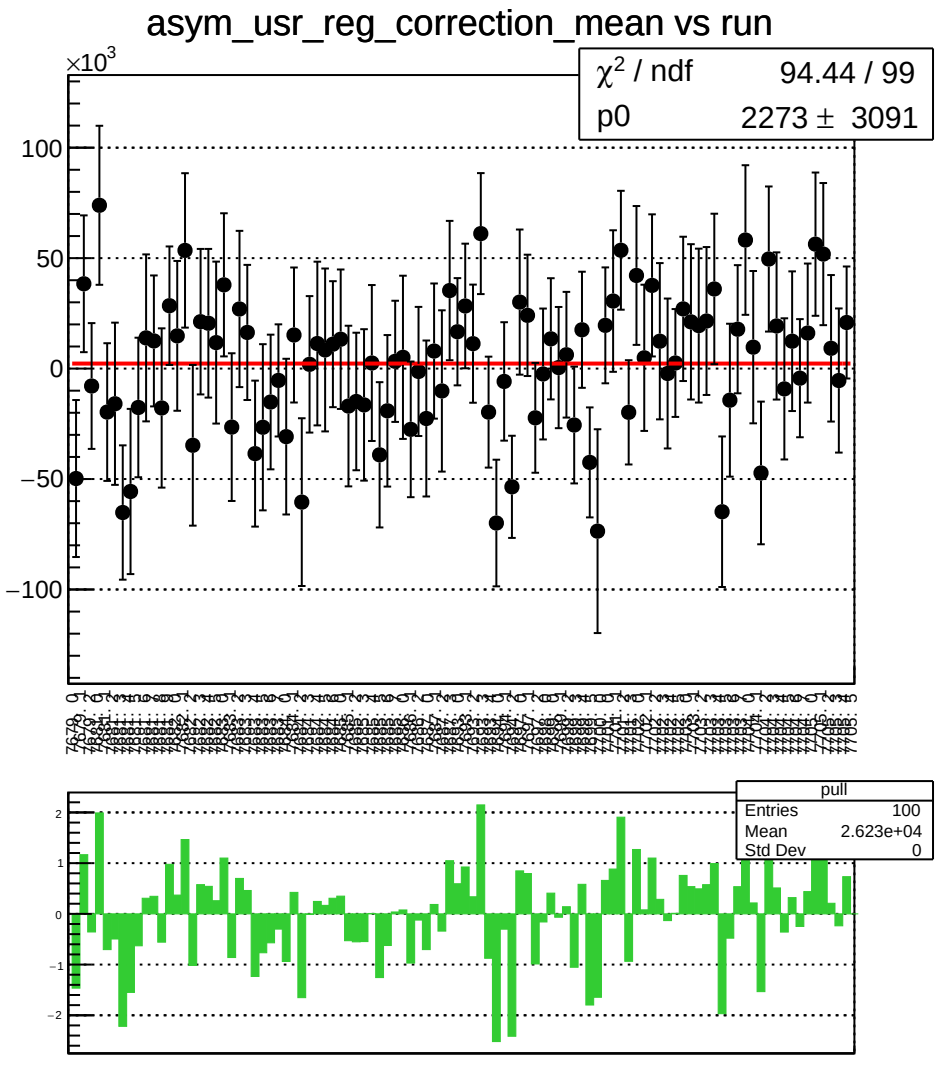

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 3.192e+05 / 99
p0 31.39 ± 0.02477
3000
2500
2000
1500
1000
500

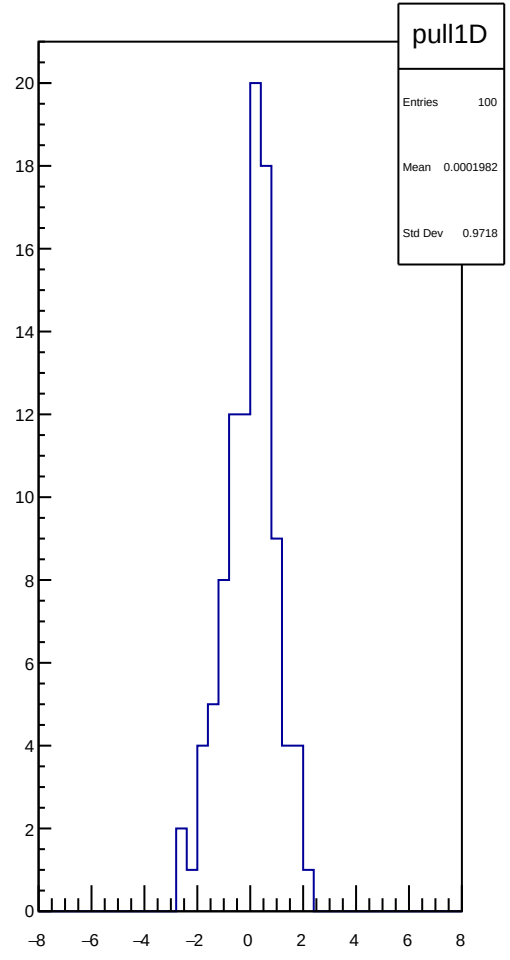

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.1 / 99
p0 0.003428 ± 0.03503
pull
Entries 100
Mean 439.5
Std Dev 0
pull1D
Entries 100
Mean 0.002655
Std Dev 1.02

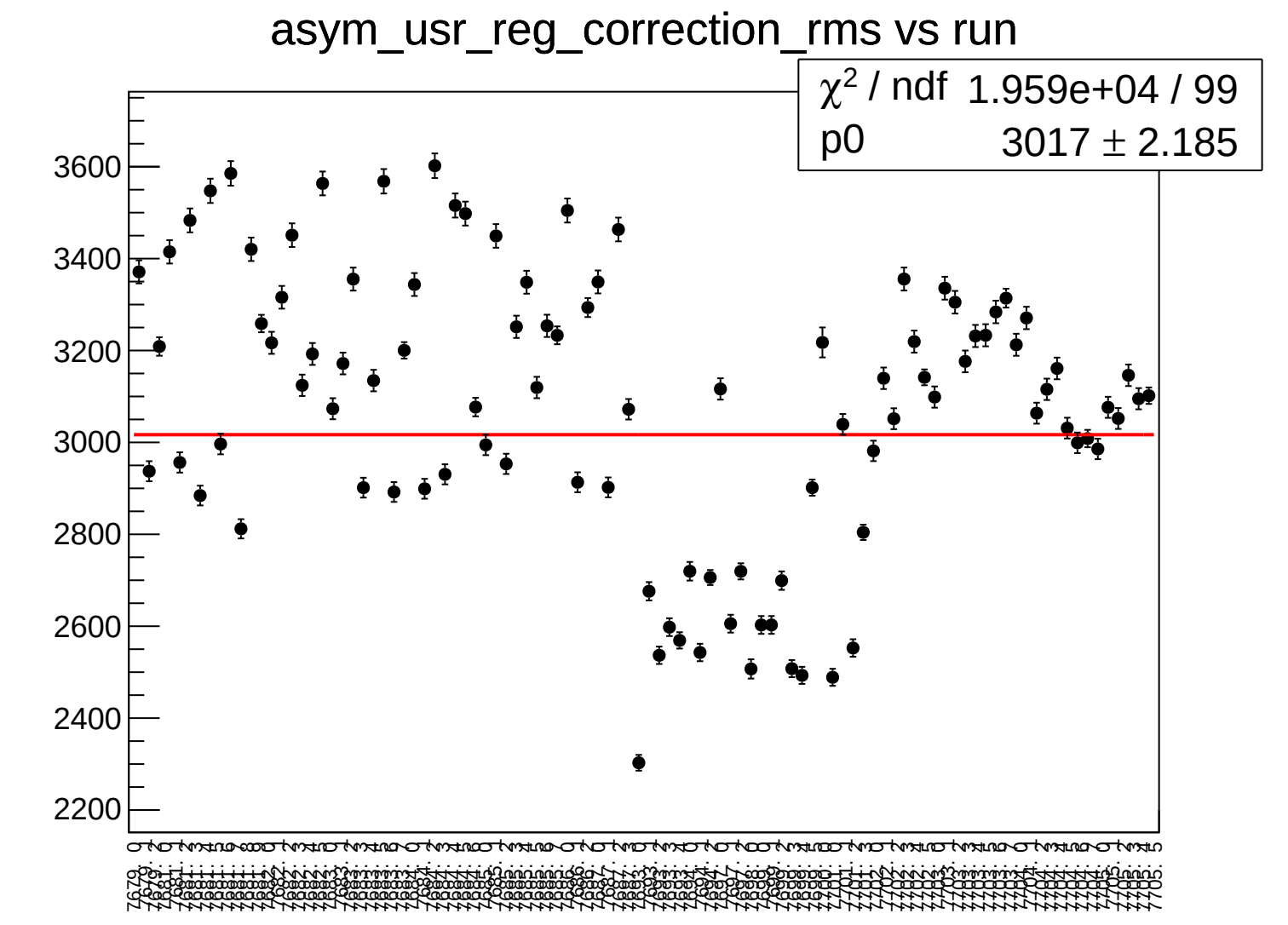

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.192e+05 / 99
p0 31.39 ± 0.02477
3000
2500
2000
1500
1000
500

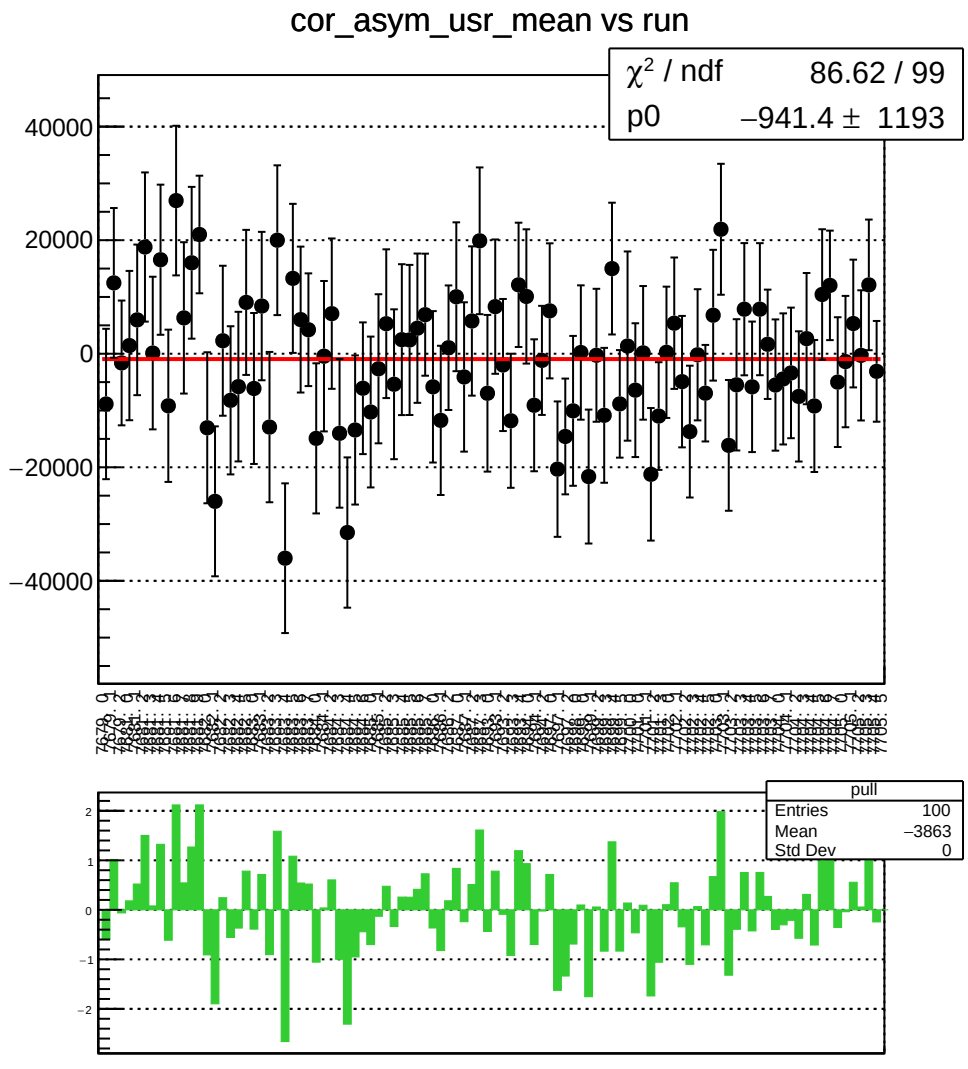

reg_asym_usr_mean vs run
χ² / ndf 86.62 / 99
p0 −941.4 ± 1193
40000
20000
0
−20000
−40000
pull
Entries 100
Mean −3863
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.0005247
Std Dev 0.9307
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

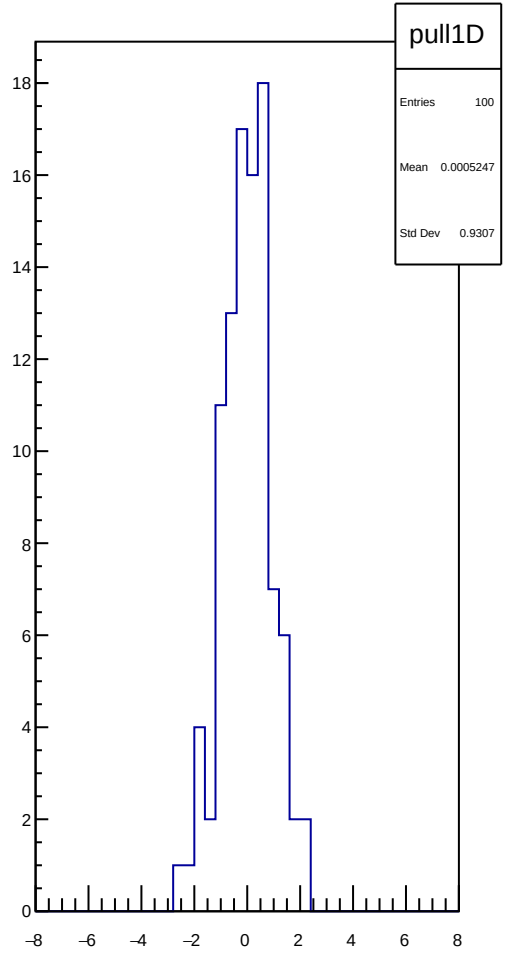

reg_asym_usr_rms vs run
χ² / ndf 7954 / 99
p0 1168 ± 0.8439
1300
1250
1200
1150
1100
1050

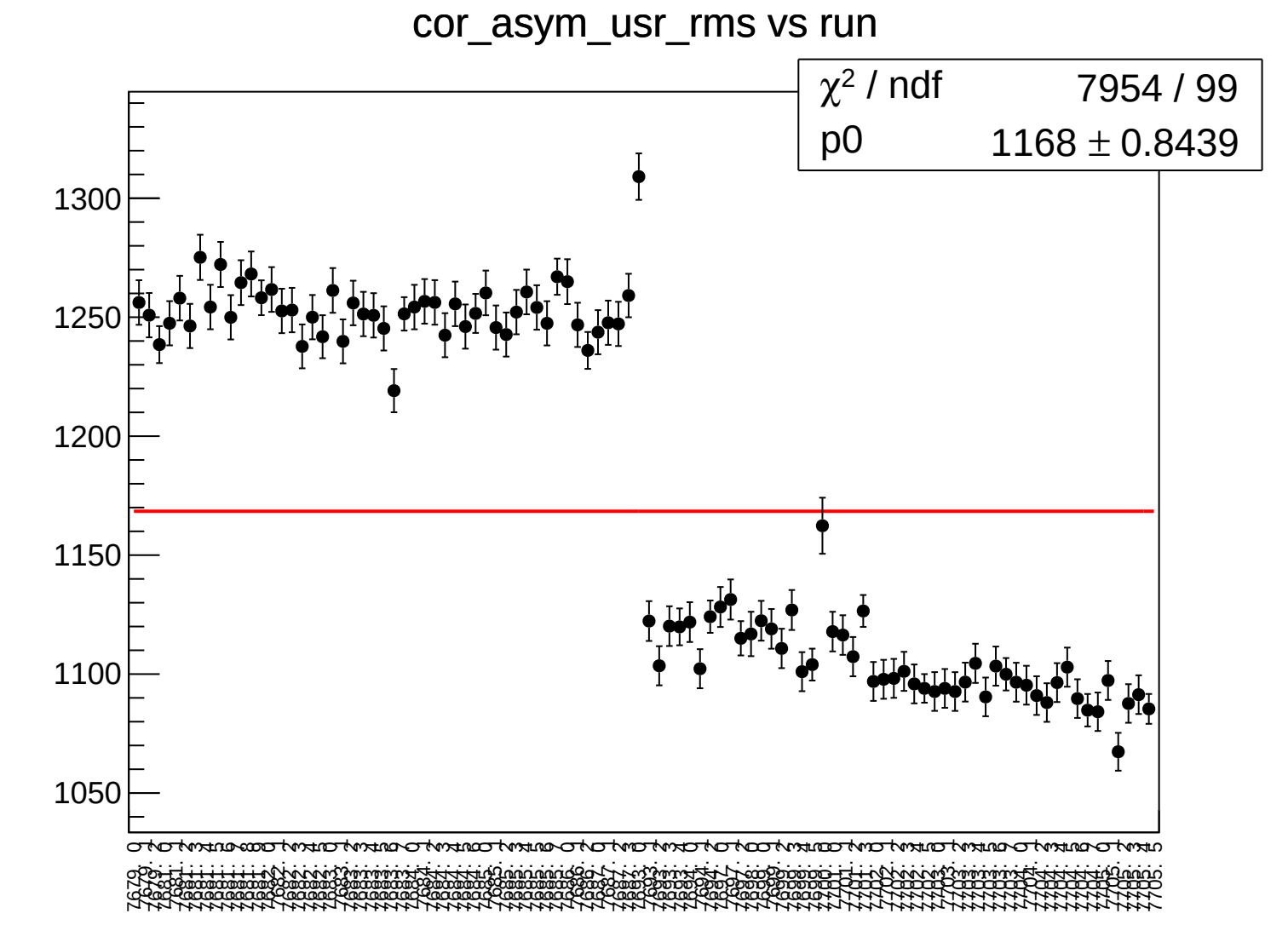

asym_usr_reg_correction_mean vs run
×10^3
χ^2 / ndf 94.44 / 99
p0 2273 ± 3091
100
50
0
−50
−100
pull
Entries 100
Mean 2.623e+04
Std Dev 0
2
1
0
−1
−2

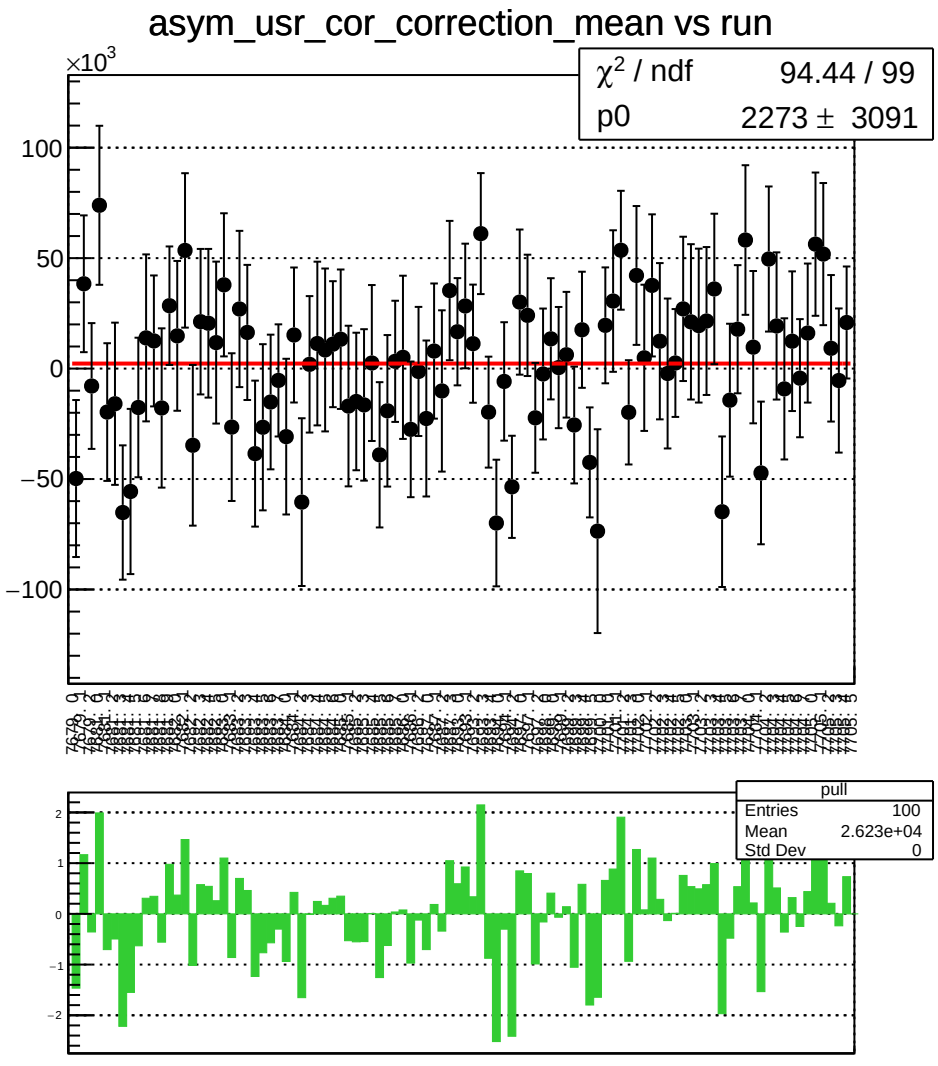

pull1D
Entries 100
Mean 0.0001982
Std Dev 0.9718
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

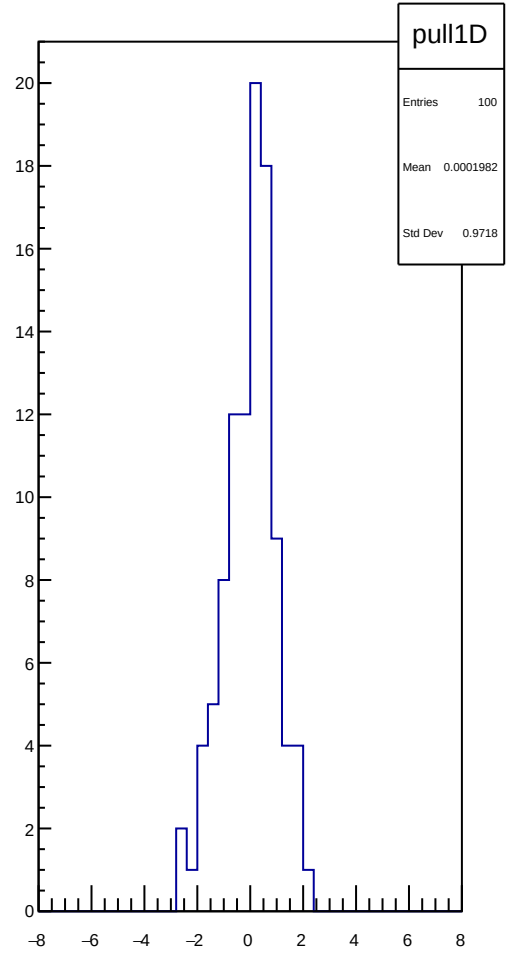

asym_usr_reg_correction_rms vs run
χ² / ndf 1.959e+04 / 99
p0 3017 ± 2.185
3600
3400
3200
3000
2800
2600
2400
2200

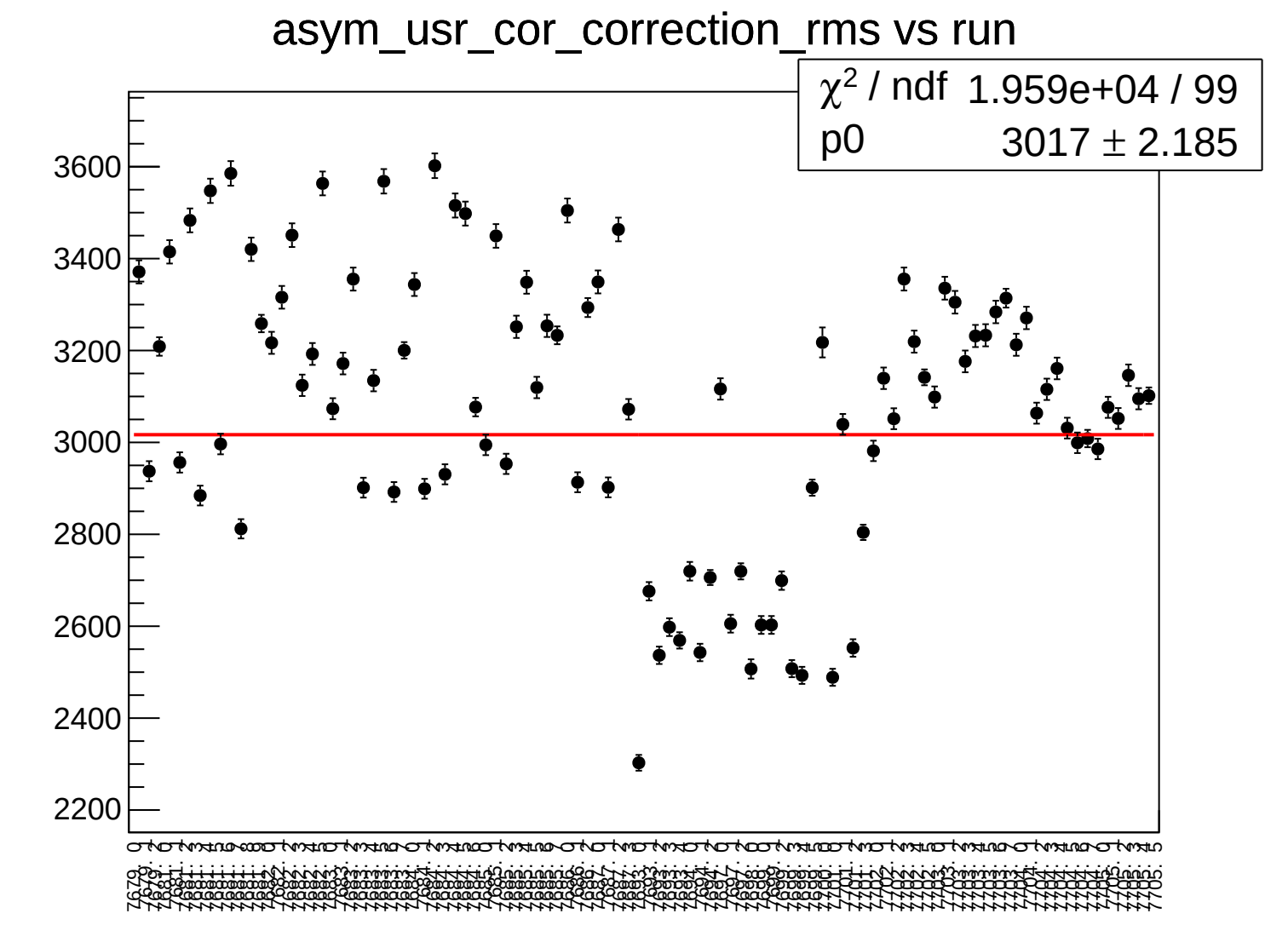

cor_asym_usr_mean vs run
χ² / ndf 86.62 / 99
p0 −941.4 ± 1193
40000
20000
0
−20000
−40000
pull
Entries 100
Mean −3863
Std Dev 0
2
1
0
−1
−2

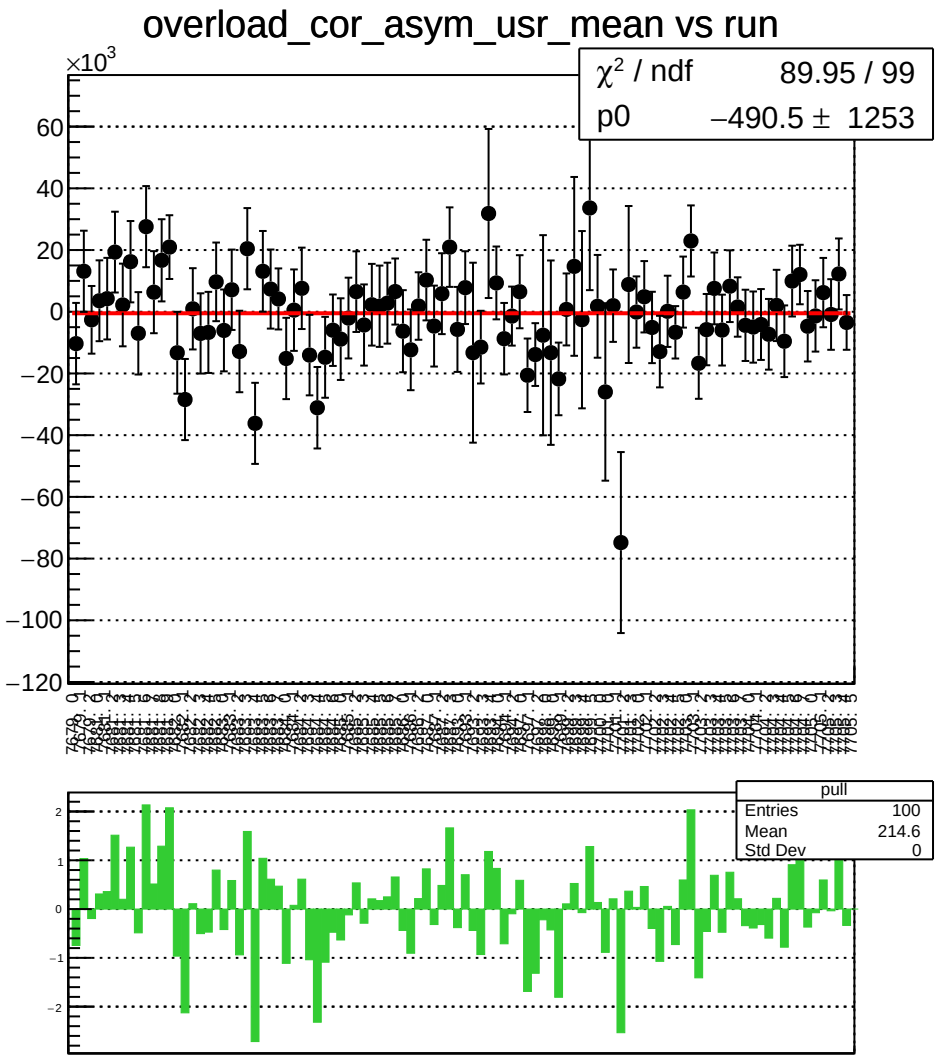

pull1D
Entries 100
Mean 0.0005247
Std Dev 0.9307
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

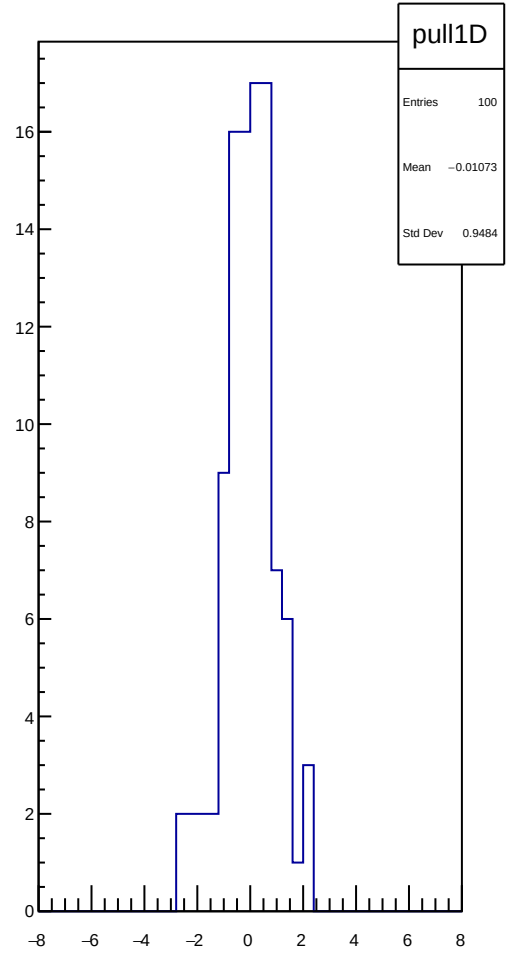

cor_asym_usr_rms vs run
χ² / ndf 7954 / 99
p0 1168 ± 0.8439
1300
1250
1200
1150
1100
1050

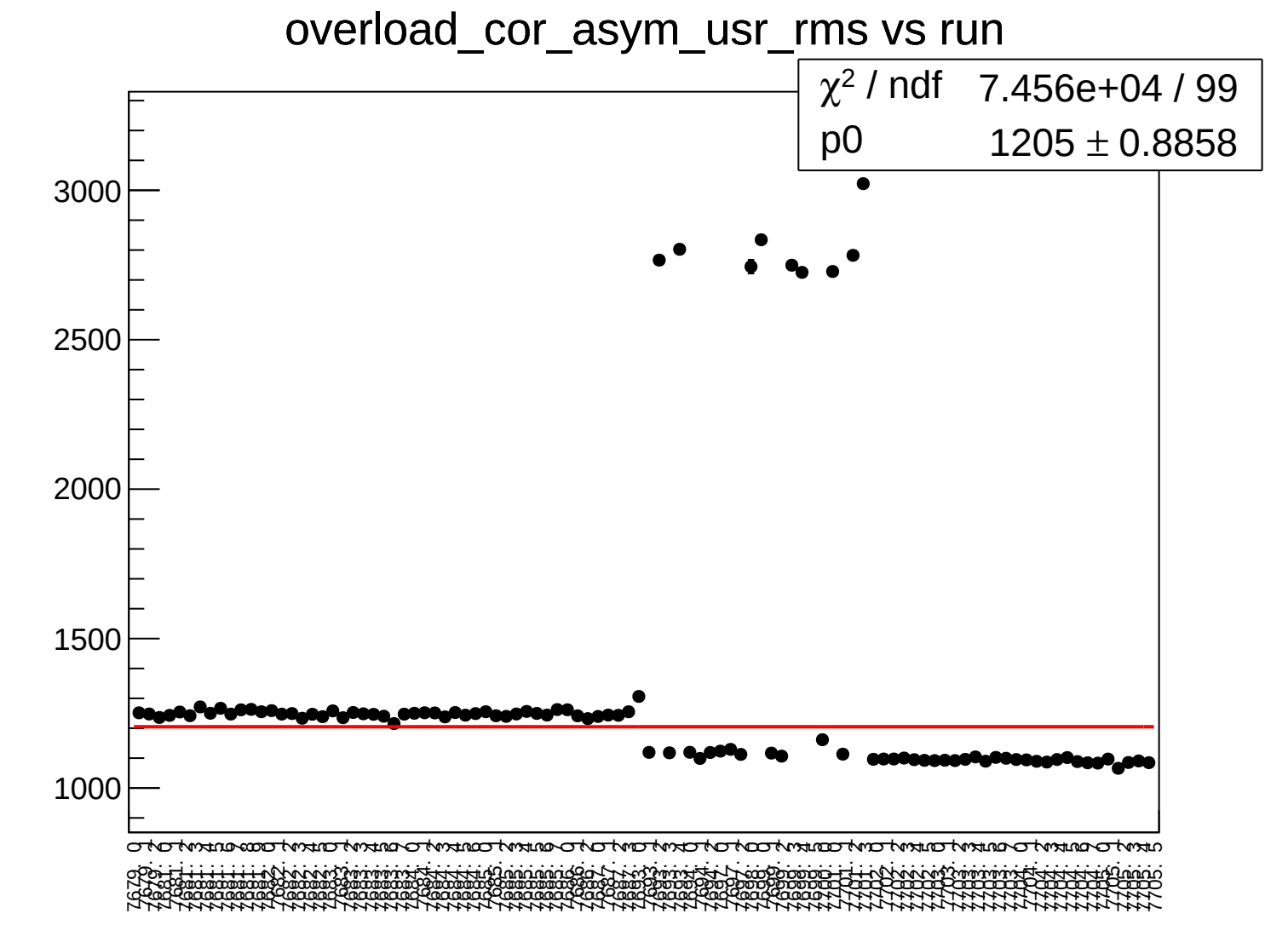

asym_usr_cor_correction_mean vs run
×10^3
χ^2 / ndf 94.44 / 99
p0 2273 ± 3091
100
50
0
−50
−100
pull
Entries 100
Mean 2.623e+04
Std Dev 0
2
1
0
−1
−2

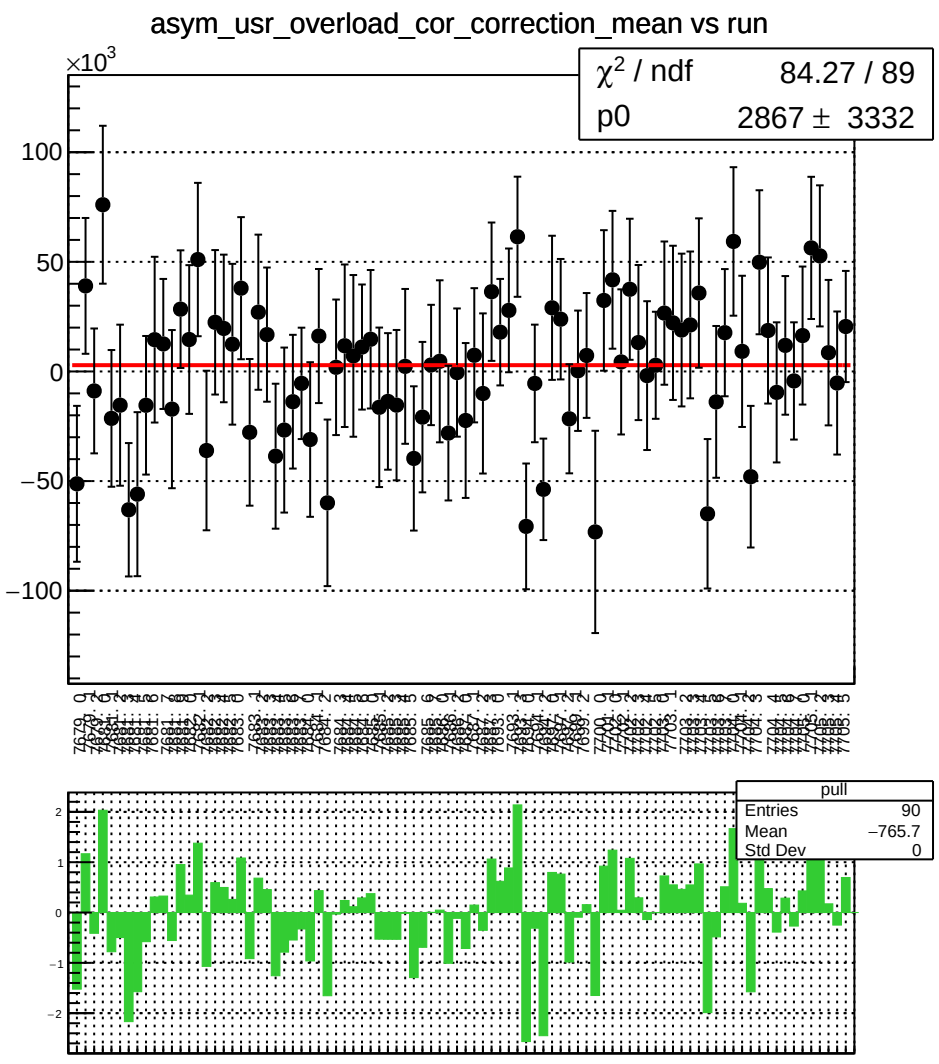

pull1D
Entries 100
Mean 0.0001982
Std Dev 0.9718
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

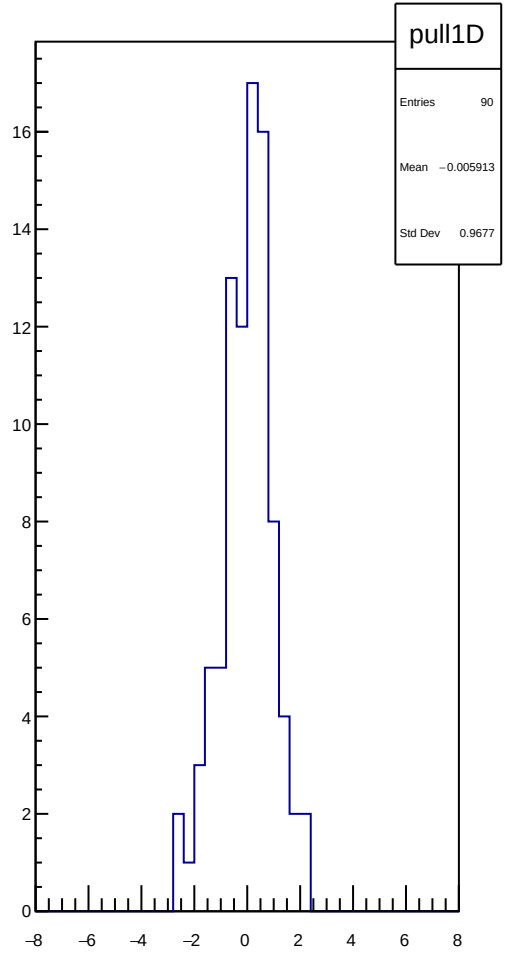

asym_usr_cor_correction_rms vs run
χ² / ndf 1.959e+04 / 99
p0 3017 ± 2.185
3600
3400
3200
3000
2800
2600
2400
2200

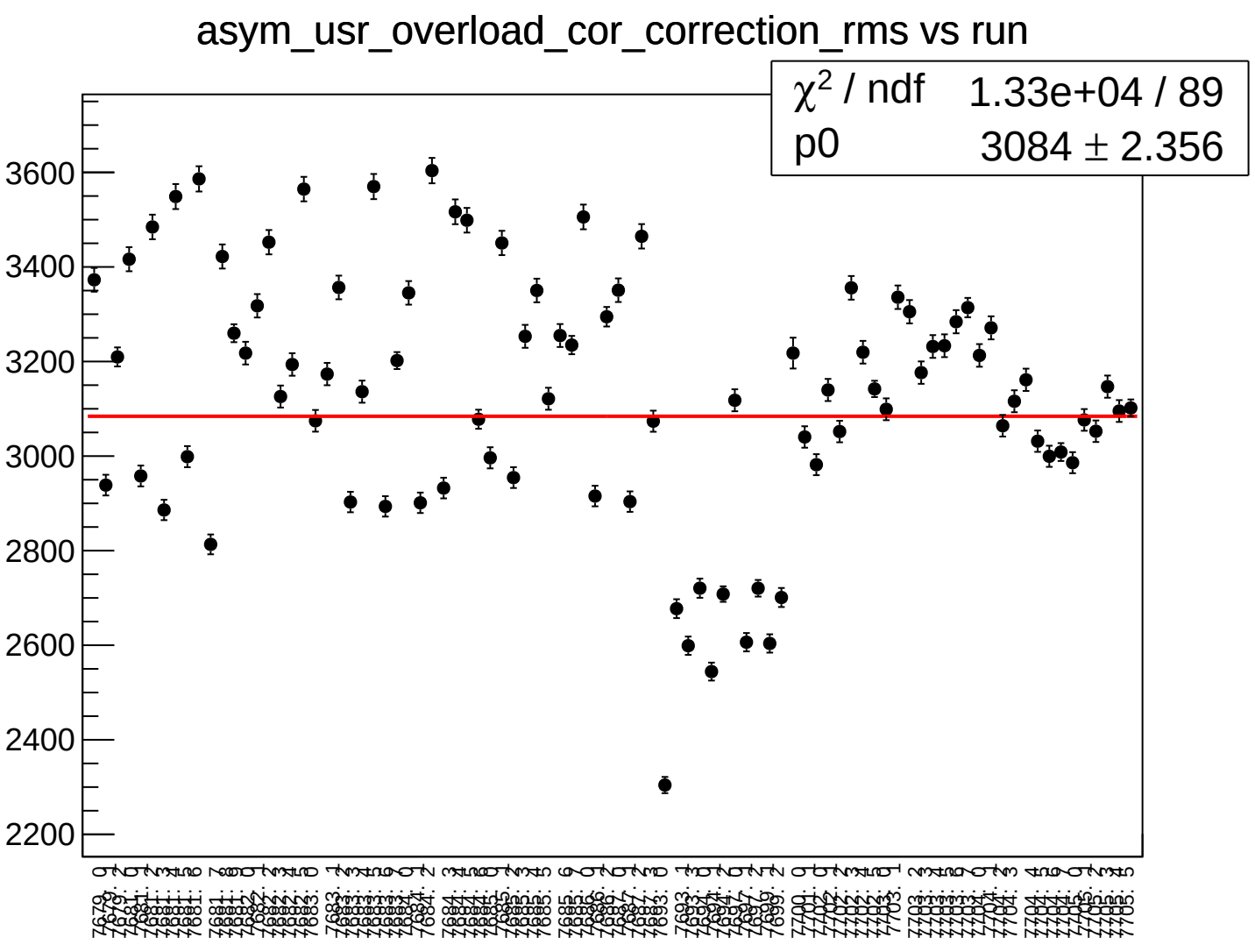

overload_cor_asym_usr_mean vs run
×10^3
χ² / ndf 89.95 / 99
p0 −490.5 ± 1253
60
40
20
0
−20
−40
−60
−80
−100
−120
pull
Entries 100
Mean 214.6
Std Dev 0
2
1
0
−1
−2

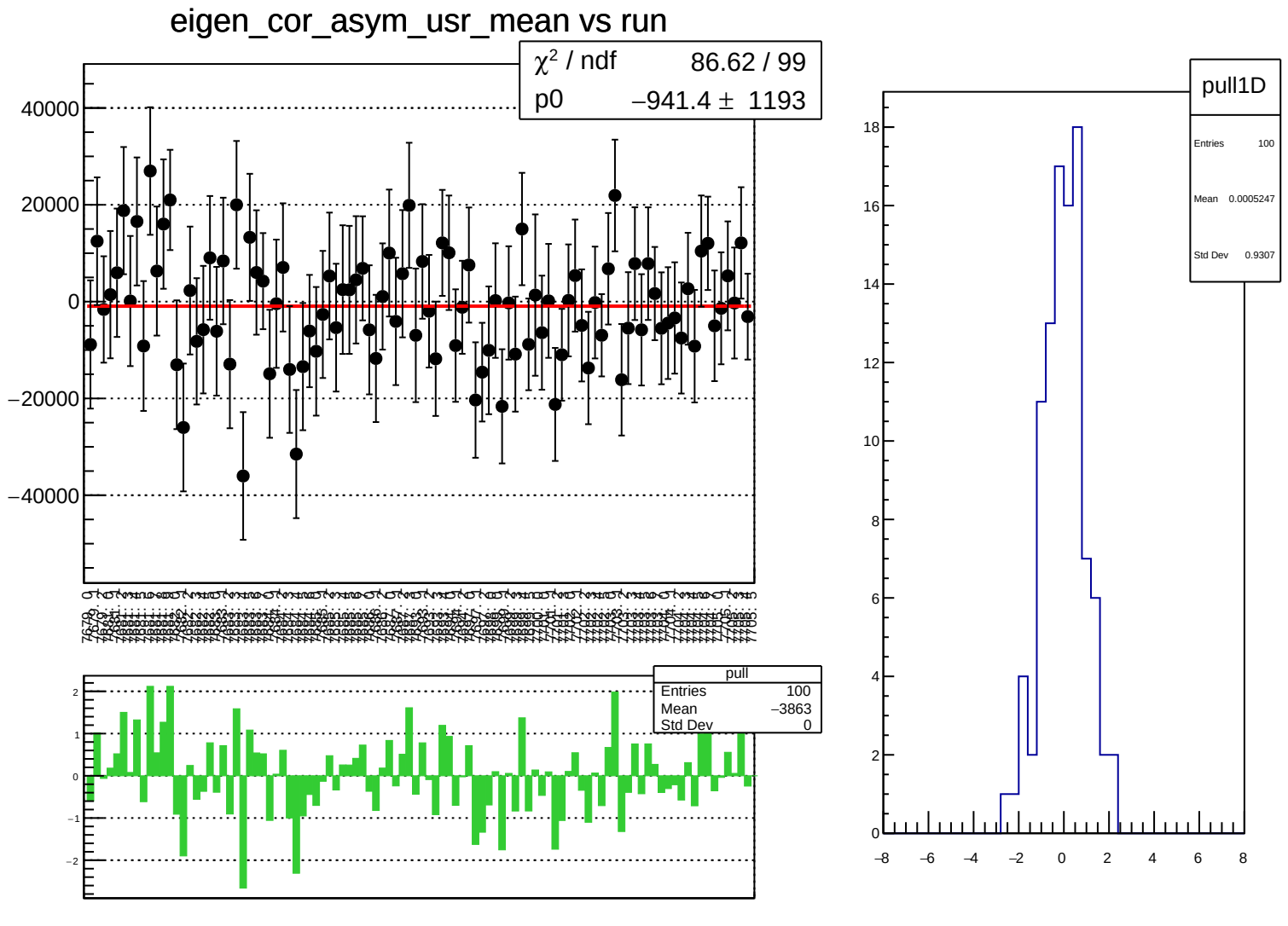

pull1D
Entries 100
Mean −0.01073
Std Dev 0.9484
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

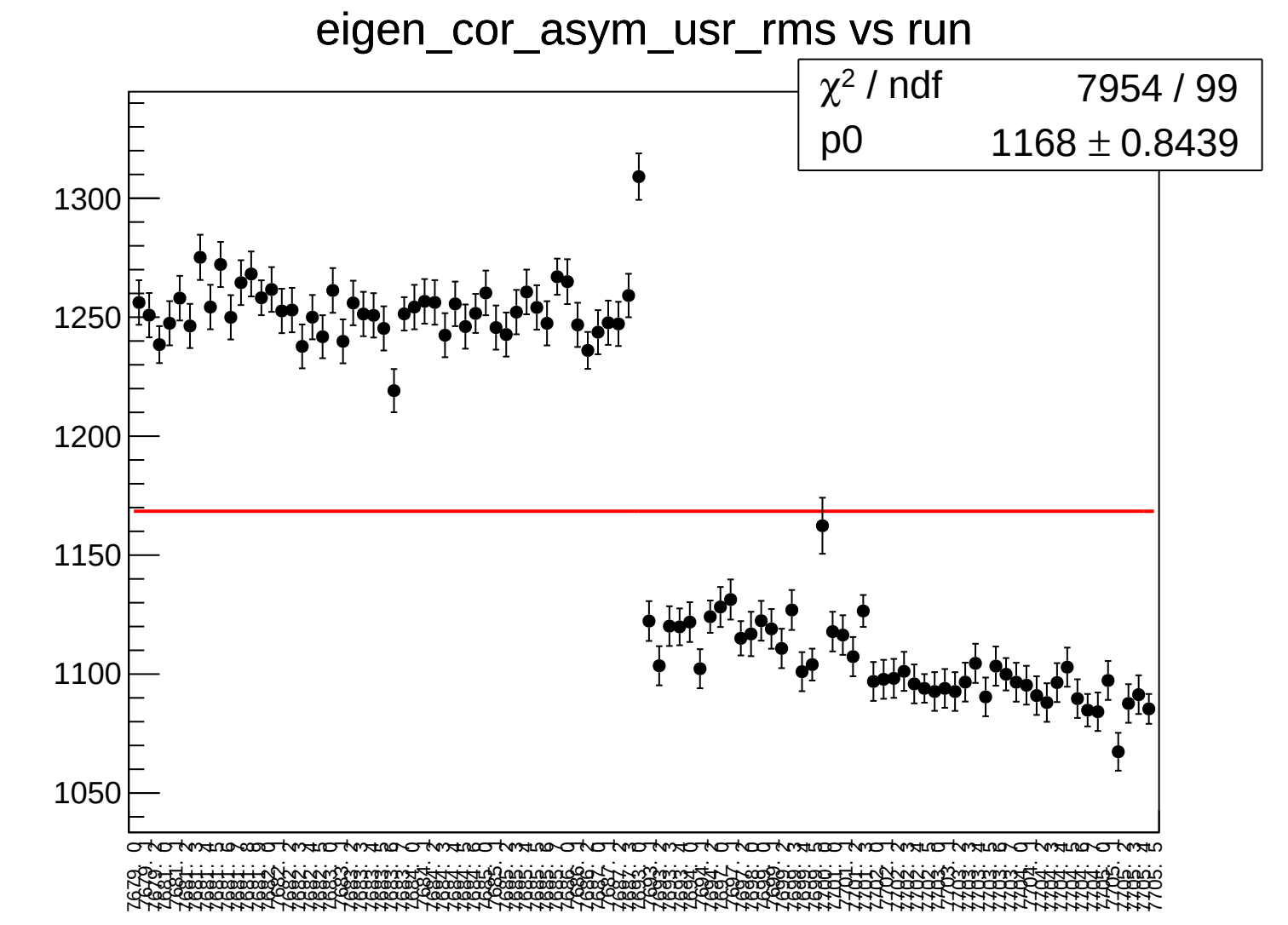

overload_cor_asym_usr_rms vs run
χ² / ndf 7.456e+04 / 99
p0 1205 ± 0.8858
3000
2500
2000
1500
1000

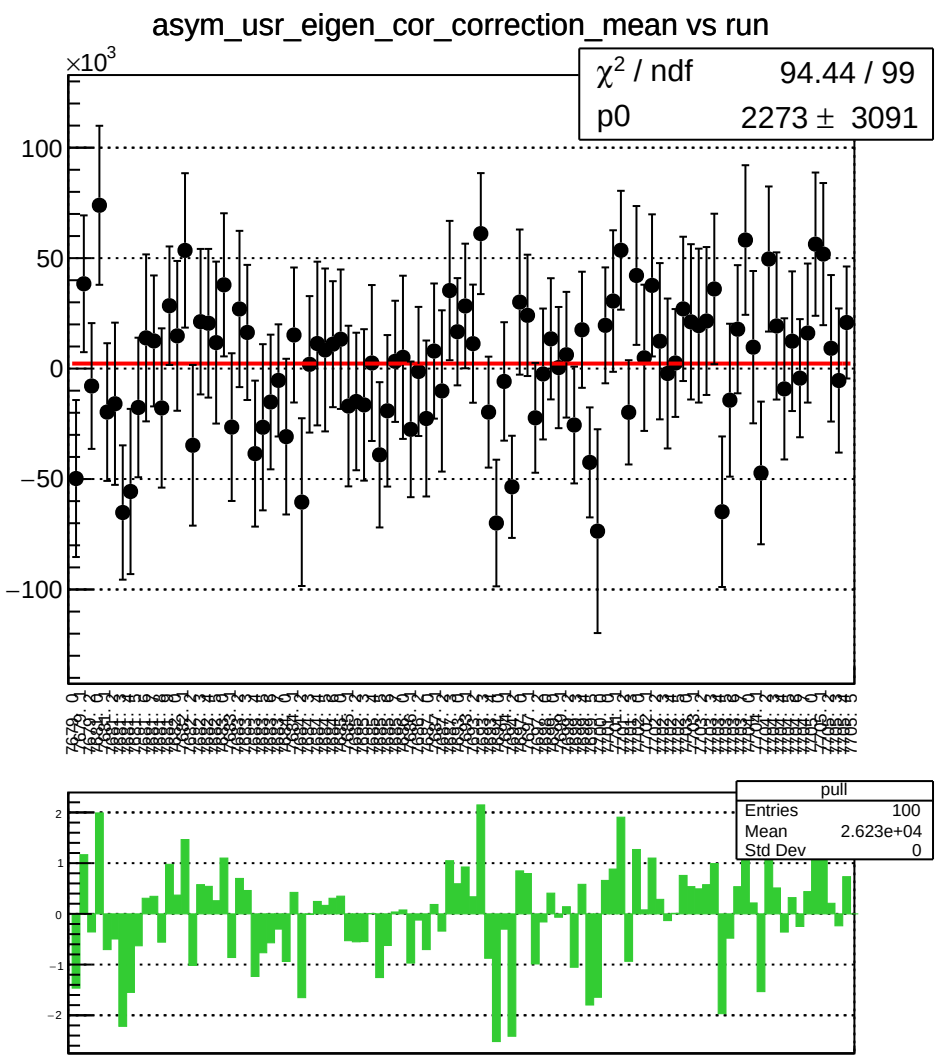

asym_usr_overload_cor_correction_mean vs run
×10^3
χ² / ndf 84.27 / 89
p0 2867 ± 3332
100
50
0
−50
−100
pull
Entries 90
Mean −765.7
Std Dev 0
2
1
0
−1
−2

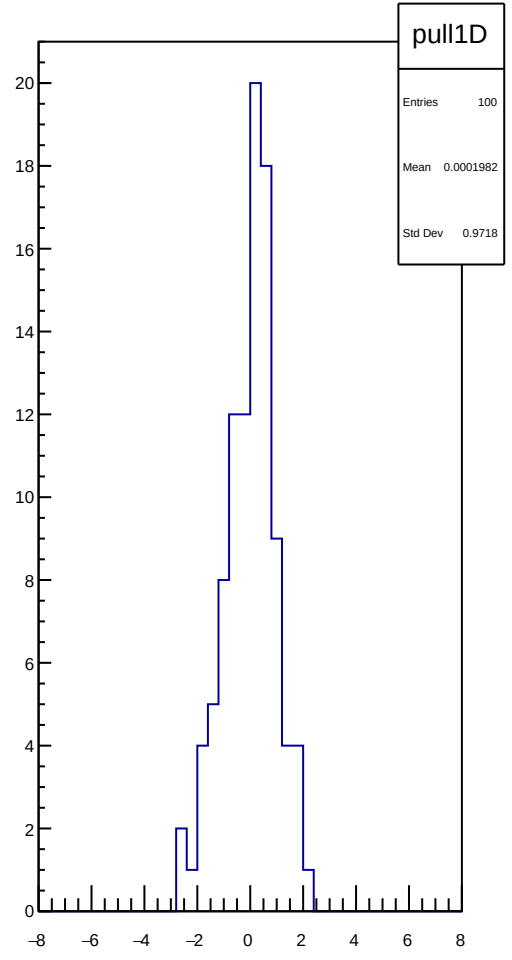

pull1D
Entries 90
Mean −0.005913
Std Dev 0.9677
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

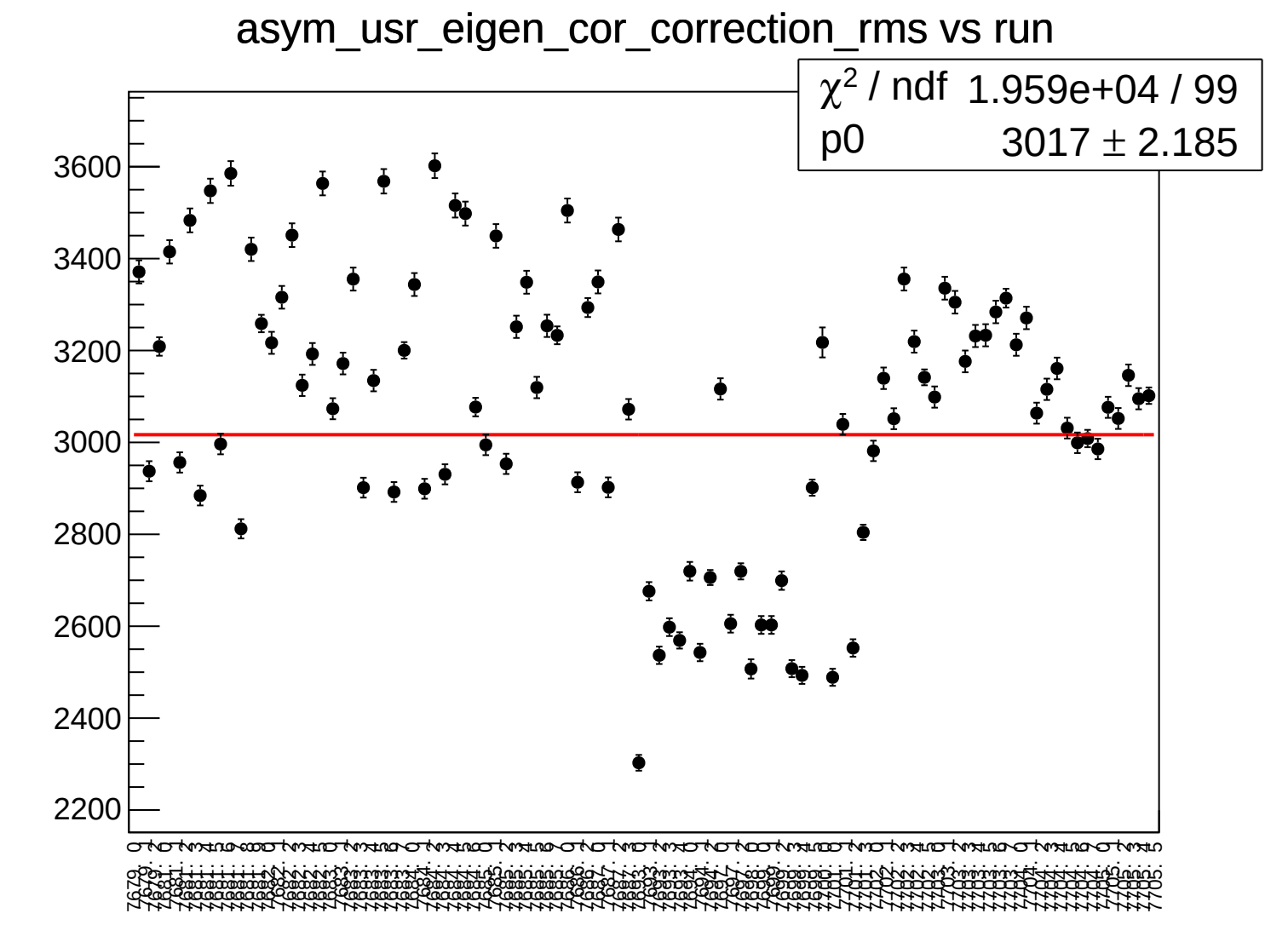

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 1.33e+04 / 89
p0 3084 ± 2.356
3600
3400
3200
3000
2800
2600
2400
2200

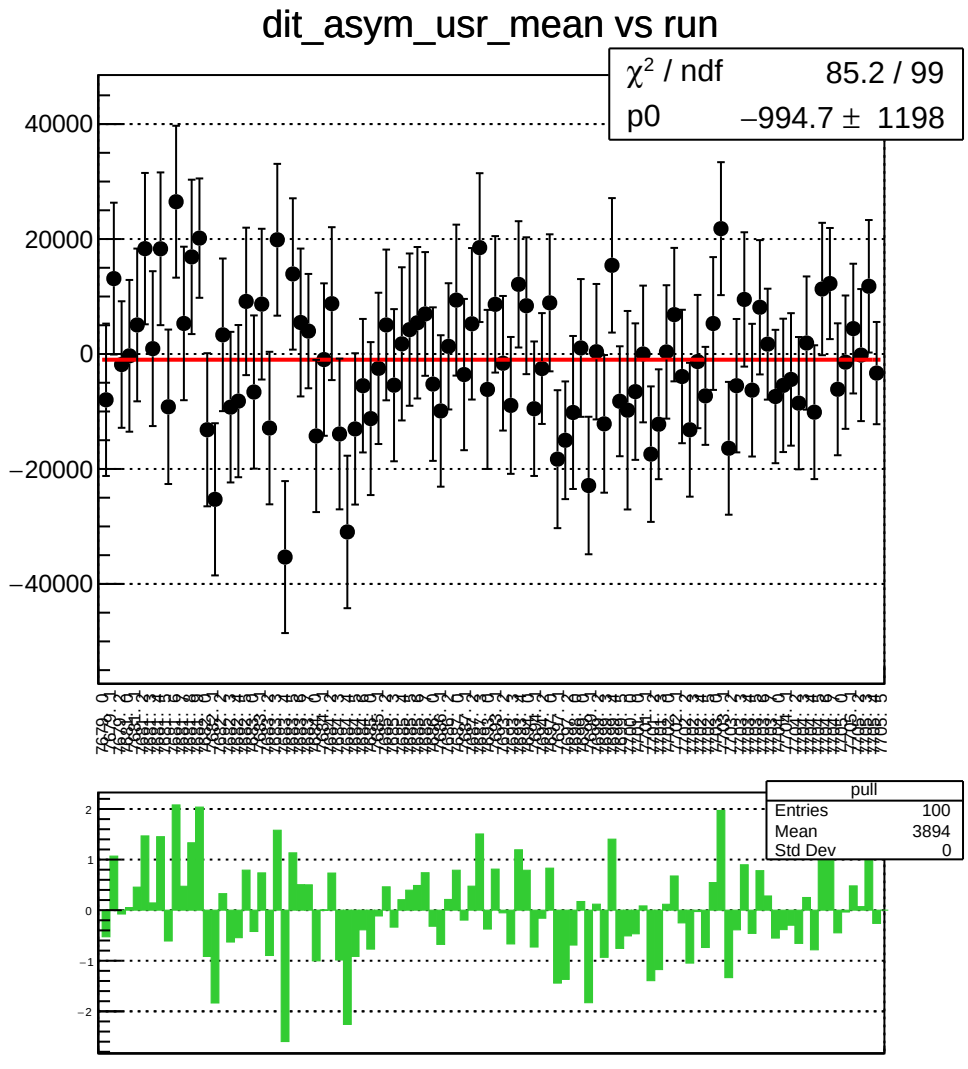

eigen_cor_asym_usr_mean vs run
χ² / ndf 86.62 / 99
p0 −941.4 ± 1193
40000
20000
0
−20000
−40000
pull
Entries 100
Mean −3863
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.0005247
Std Dev 0.9307
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

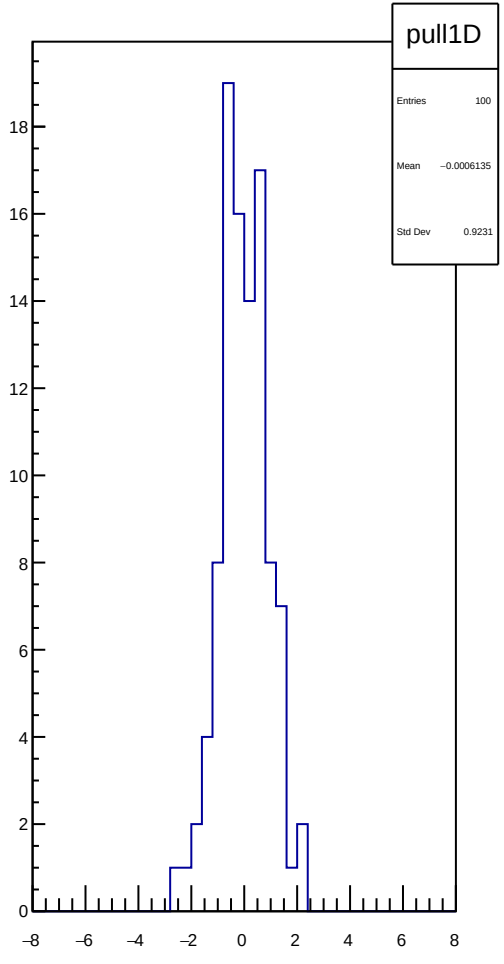

eigen_cor_asym_usr_rms vs run
χ² / ndf 7954 / 99
p0 1168 ± 0.8439
1300
1250
1200
1150
1100
1050

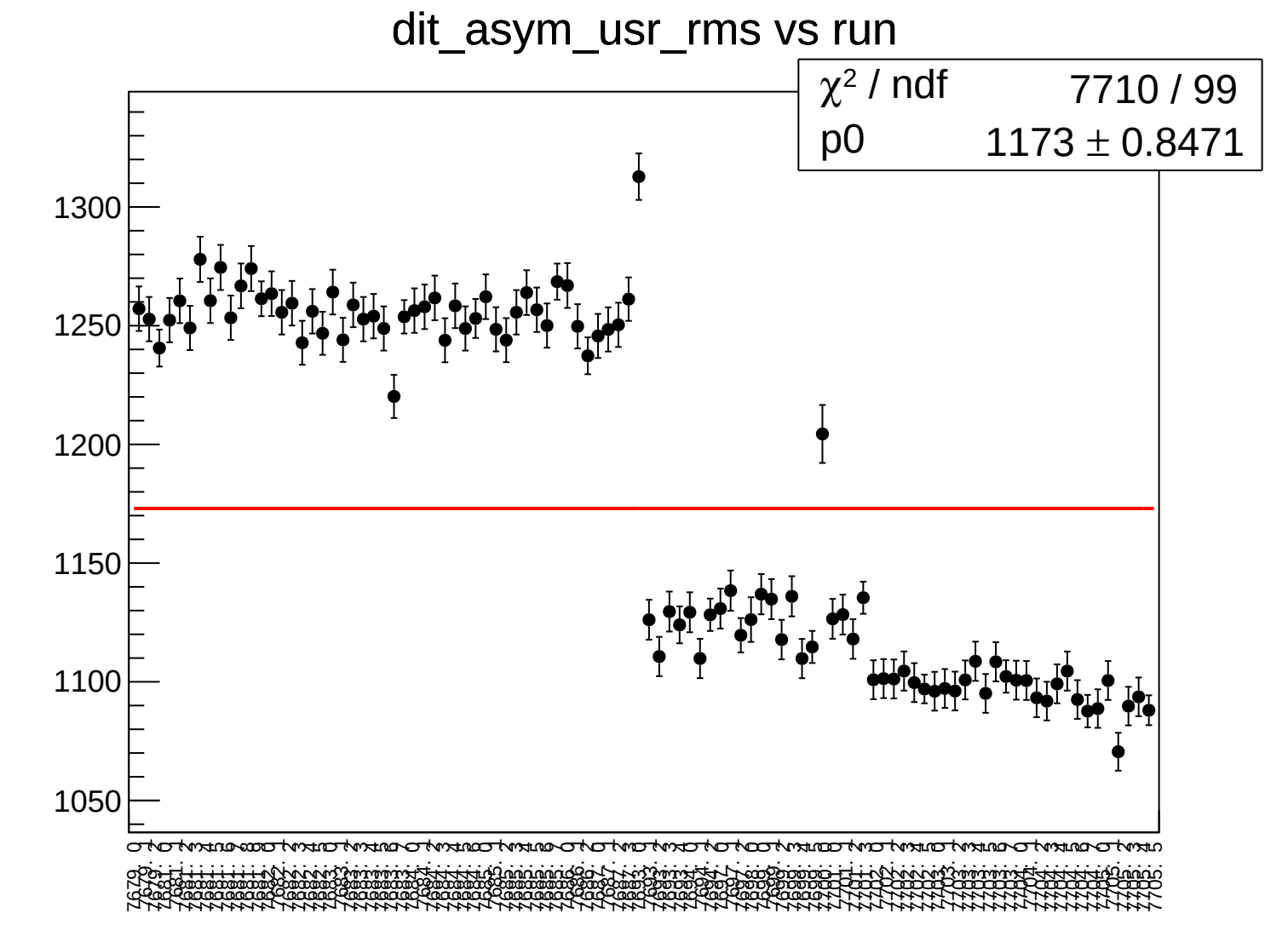

asym_usr_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 94.44 / 99
p0 2273 ± 3091
100
50
0
−50
−100
pull
Entries 100
Mean 2.623e+04
Std Dev 0
2
1
0
−1
−2

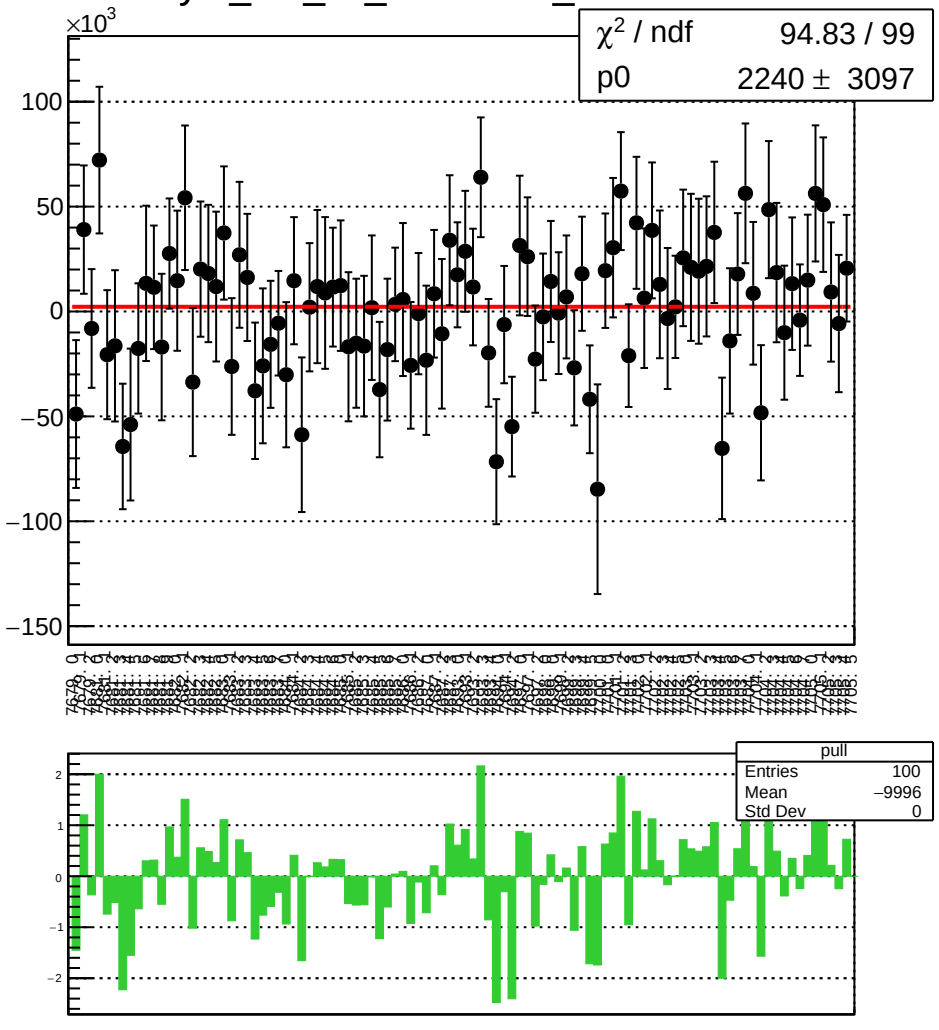

pull1D
Entries 100
Mean 0.0001982
Std Dev 0.9718
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

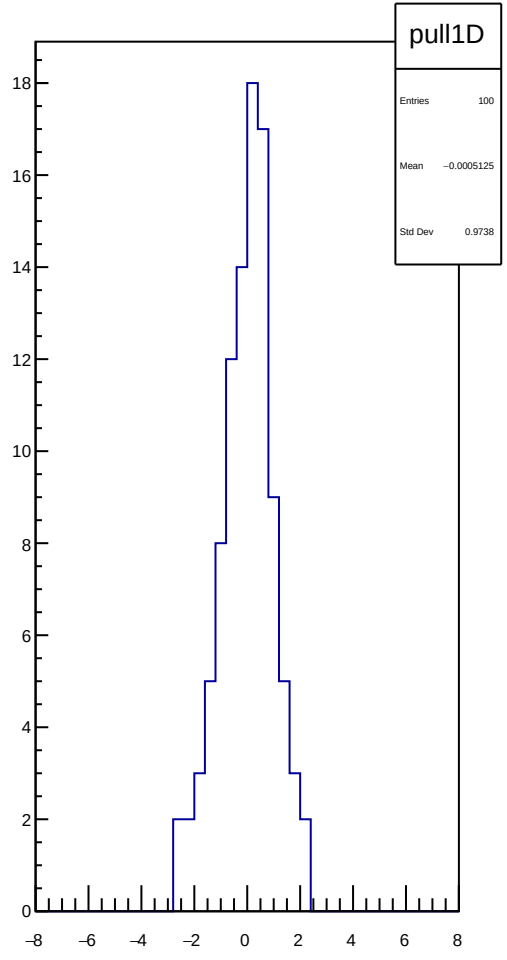

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 1.959e+04 / 99
p0 3017 ± 2.185
3600
3400
3200
3000
2800
2600
2400
2200

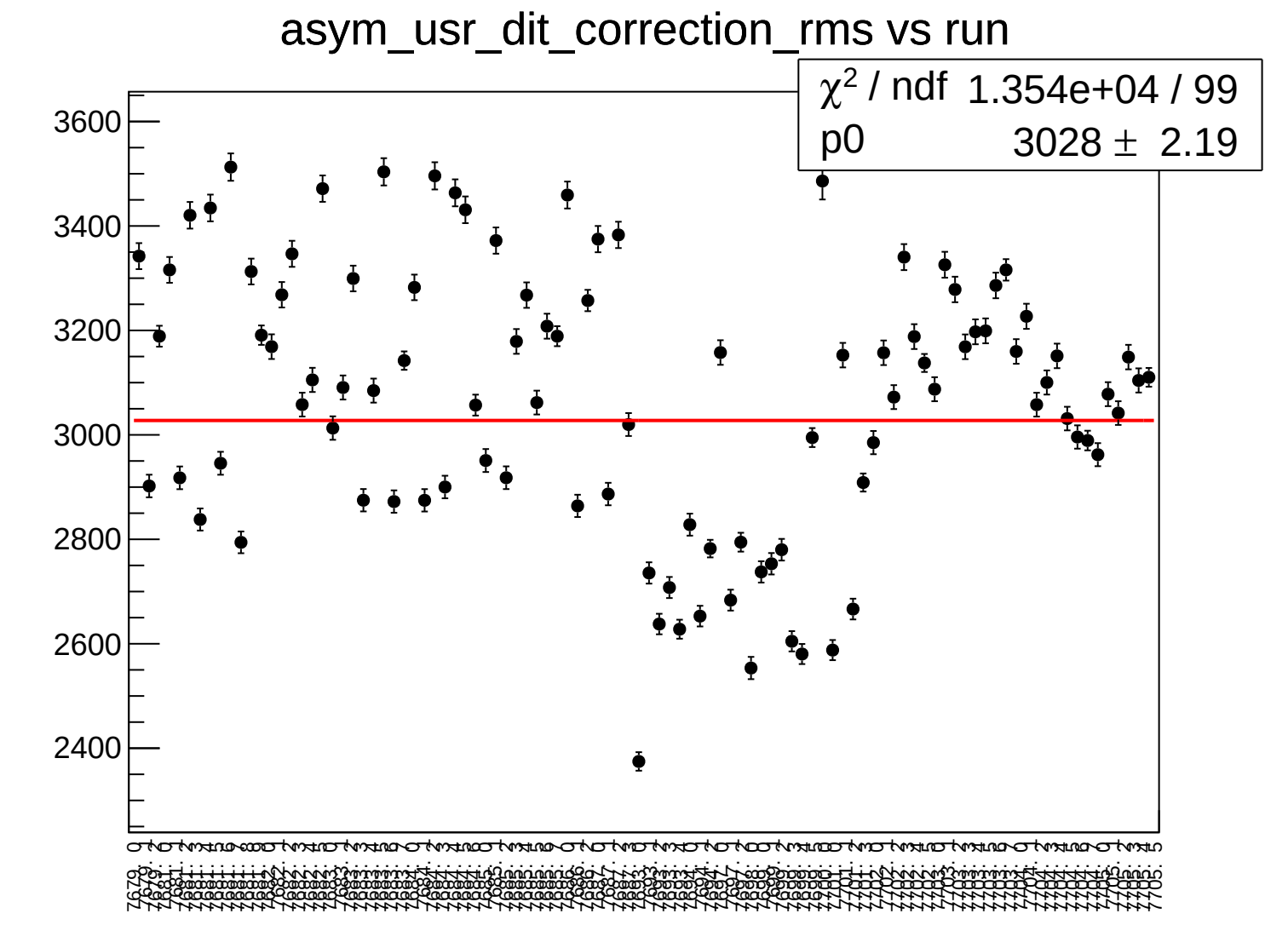

dit_asym_usr_mean vs run
χ² / ndf 85.2 / 99
p0 −994.7 ± 1198
40000
20000
0
−20000
−40000
pull
Entries 100
Mean 3894
Std Dev 0
2
1
0
−1
−2

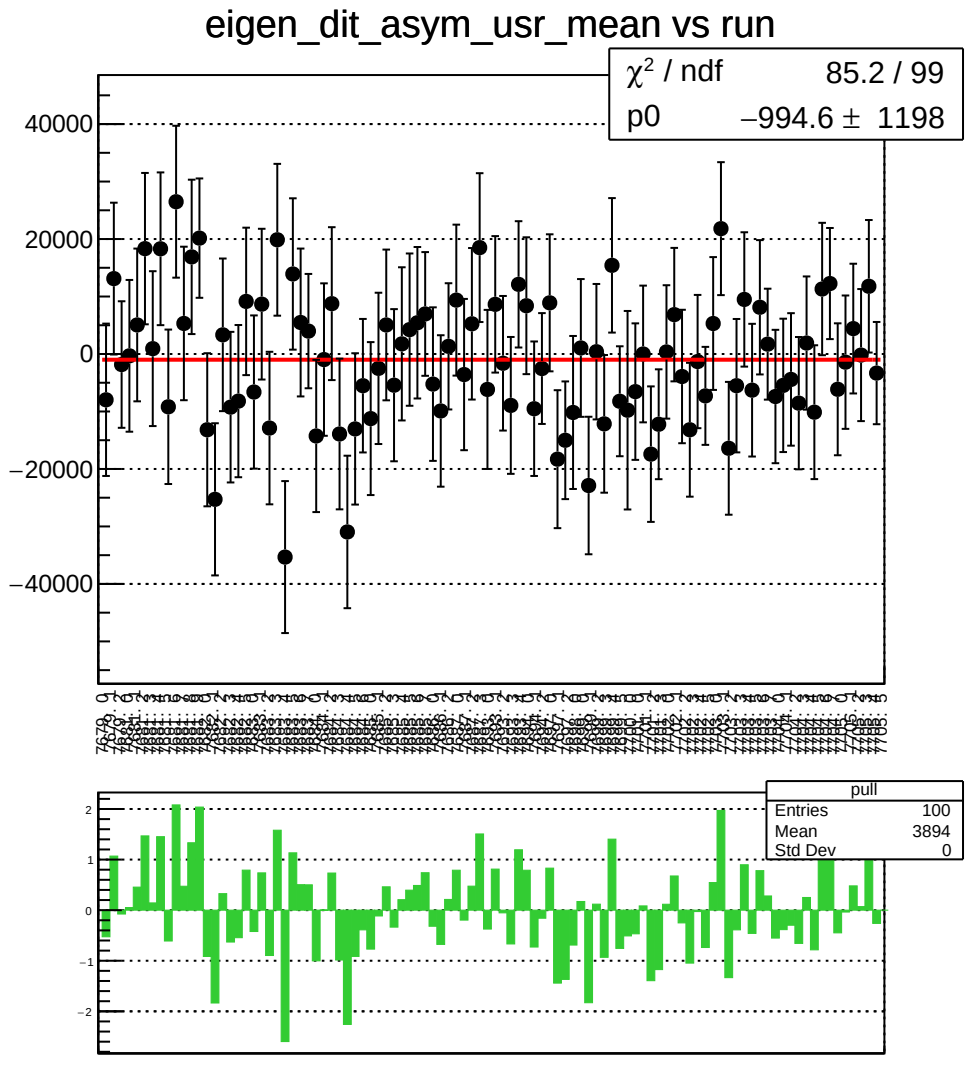

pull1D
Entries 100
Mean −0.0006135
Std Dev 0.9231
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

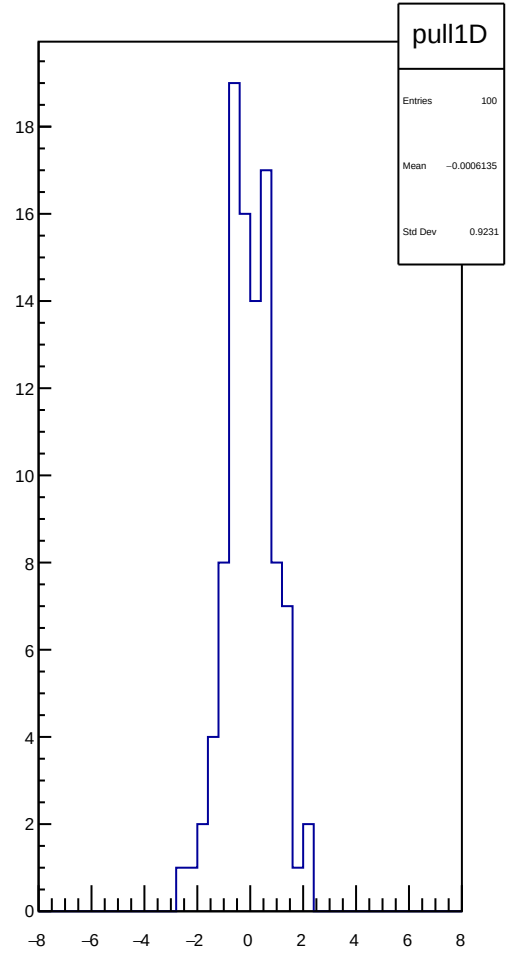

dit_asym_usr_rms vs run
χ² / ndf 7710 / 99
p0 1173 ± 0.8471
1300
1250
1200
1150
1100
1050

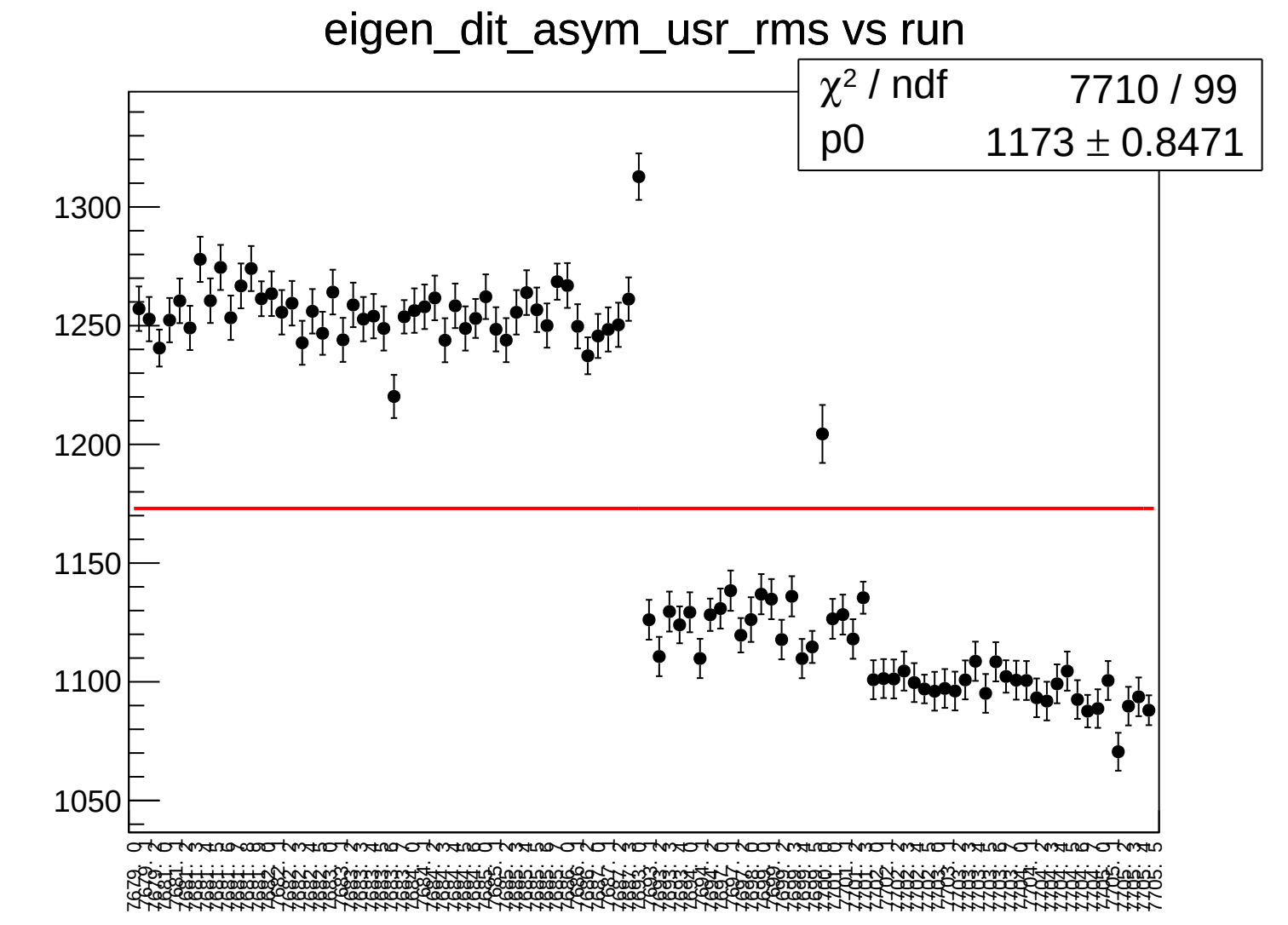

asym_usr_dit_correction_mean vs run
×10^3
χ^2 / ndf 94.83 / 99
p0 2240 ± 3097
100
50
0
−50
−100
−150
pull
Entries 100
Mean −9996
Std Dev 0
2
1
0
−1
−2

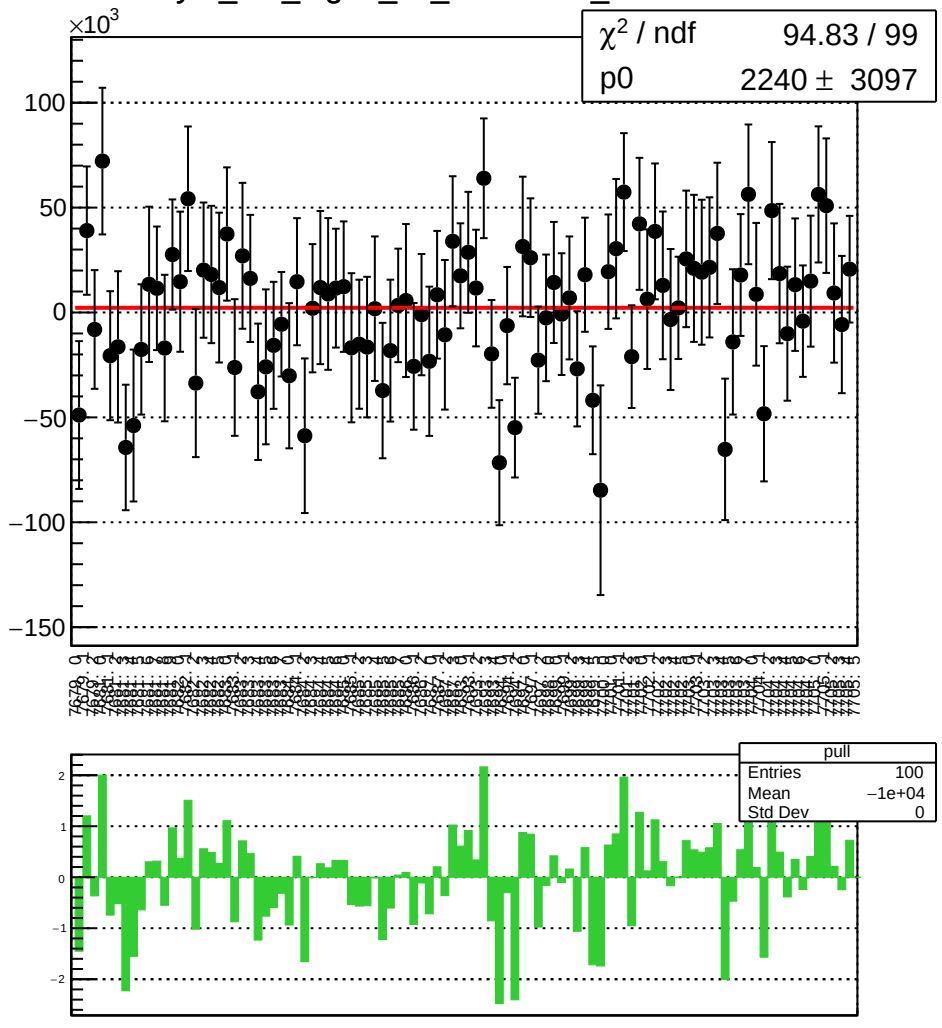

pull1D
Entries 100
Mean −0.0005125
Std Dev 0.9738
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

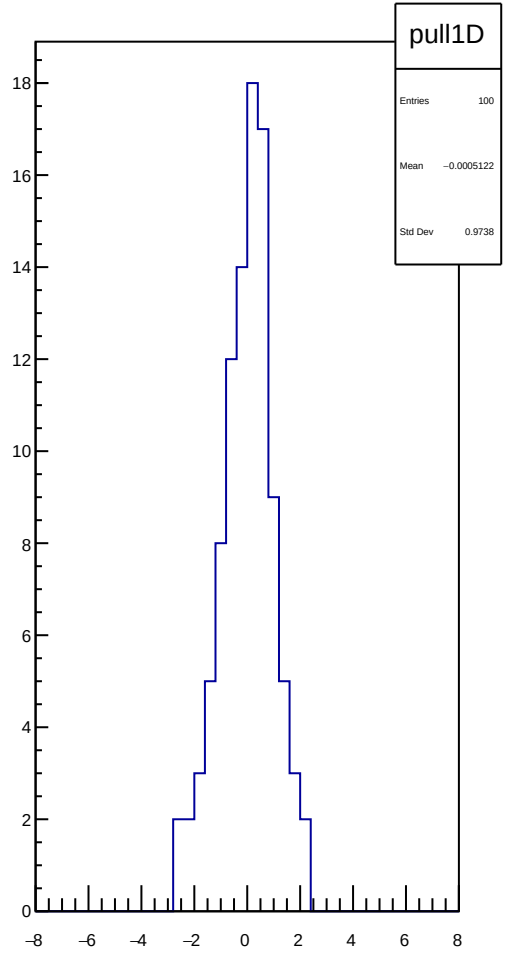

asym_usr_dit_correction_rms vs run
χ² / ndf 1.354e+04 / 99
p0 3028 ± 2.19
3600
3400
3200
3000
2800
2600
2400

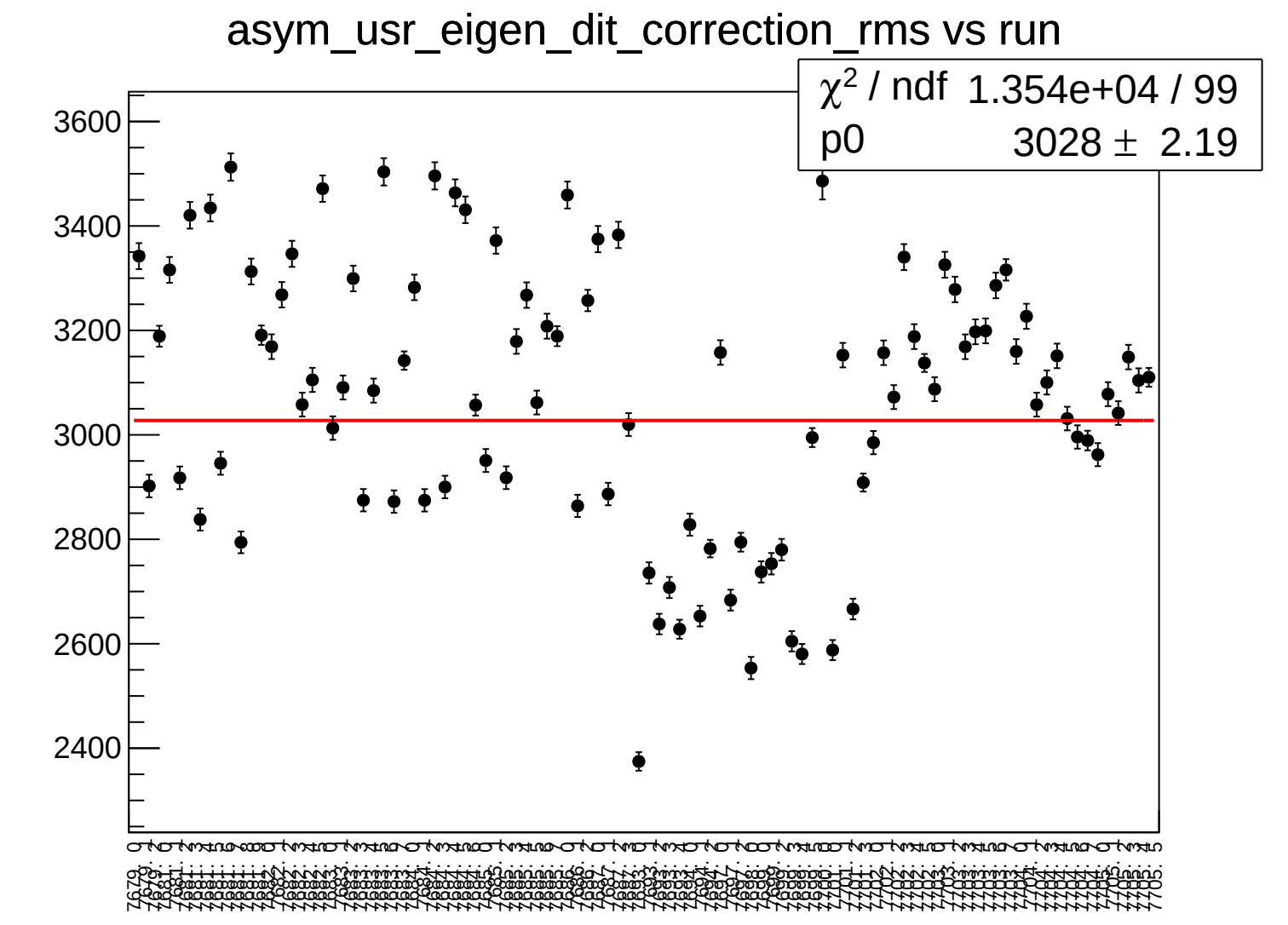

eigen_dit_asym_usr_mean vs run
χ² / ndf 85.2 / 99
p0 −994.6 ± 1198
40000
20000
0
−20000
−40000
pull
Entries 100
Mean 3894
Std Dev 0
2
1
0
−1
−2

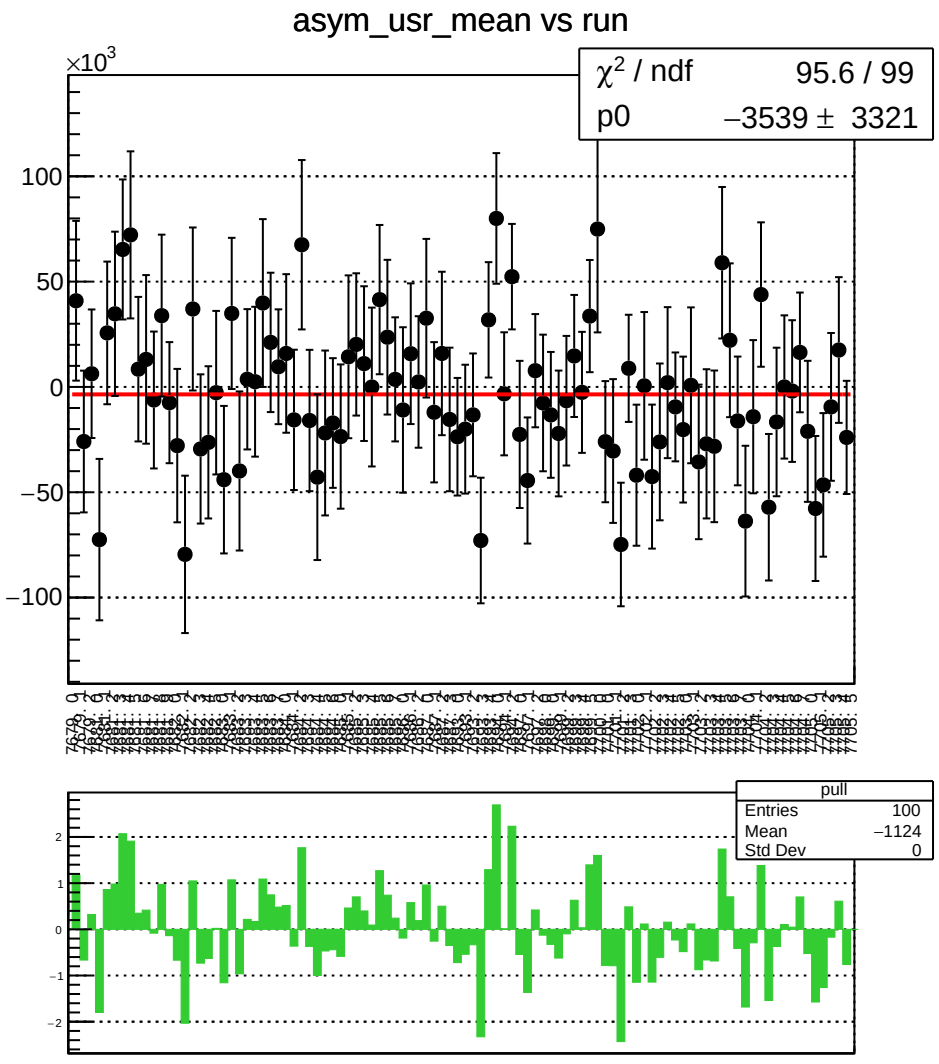

pull1D
Entries 100
Mean −0.0006135
Std Dev 0.9231
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

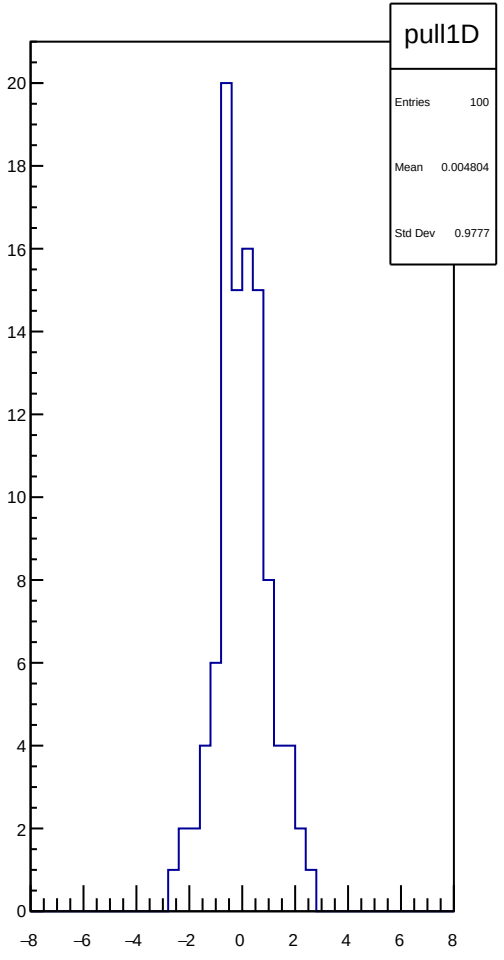

eigen_dit_asym_usr_rms vs run
χ² / ndf 7710 / 99
p0 1173 ± 0.8471
1300
1250
1200
1150
1100
1050

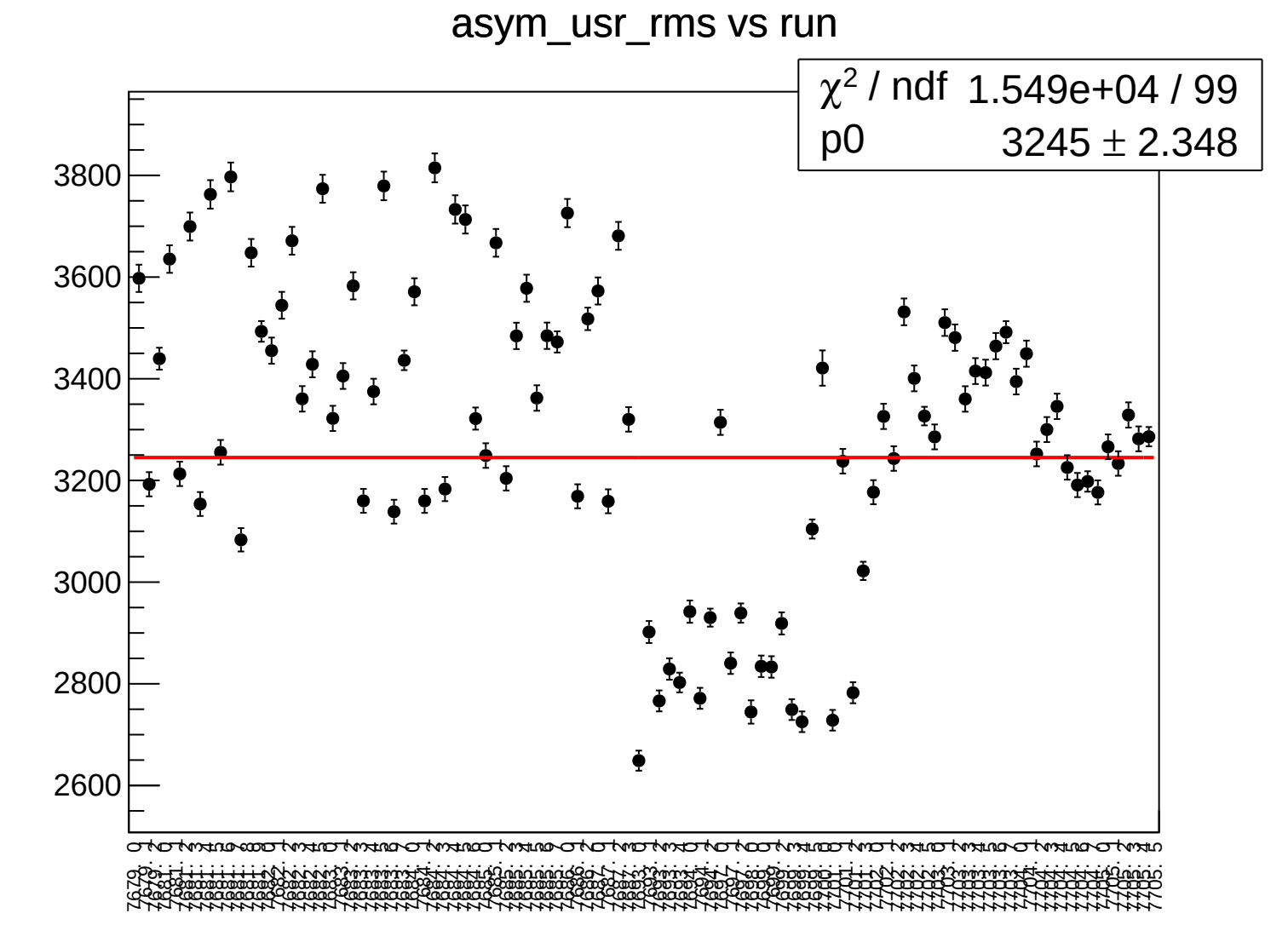

asym_usr_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 94.83 / 99
p0 2240 ± 3097
100
50
0
−50
−100
−150
pull
Entries 100
Mean −1e+04
Std Dev 0
2
1
0
−1
−2

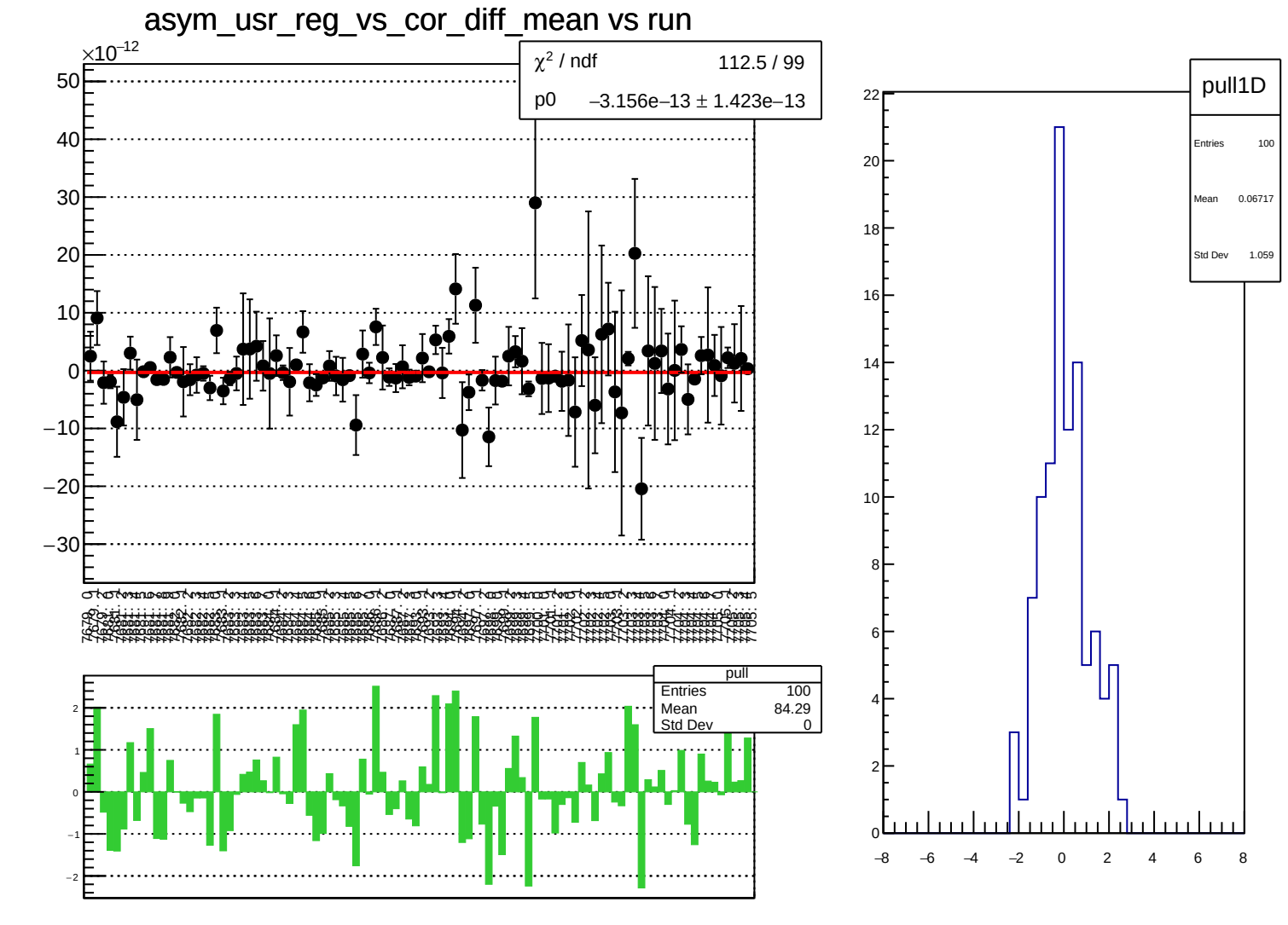

pull1D
Entries 100
Mean −0.0005122
Std Dev 0.9738
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

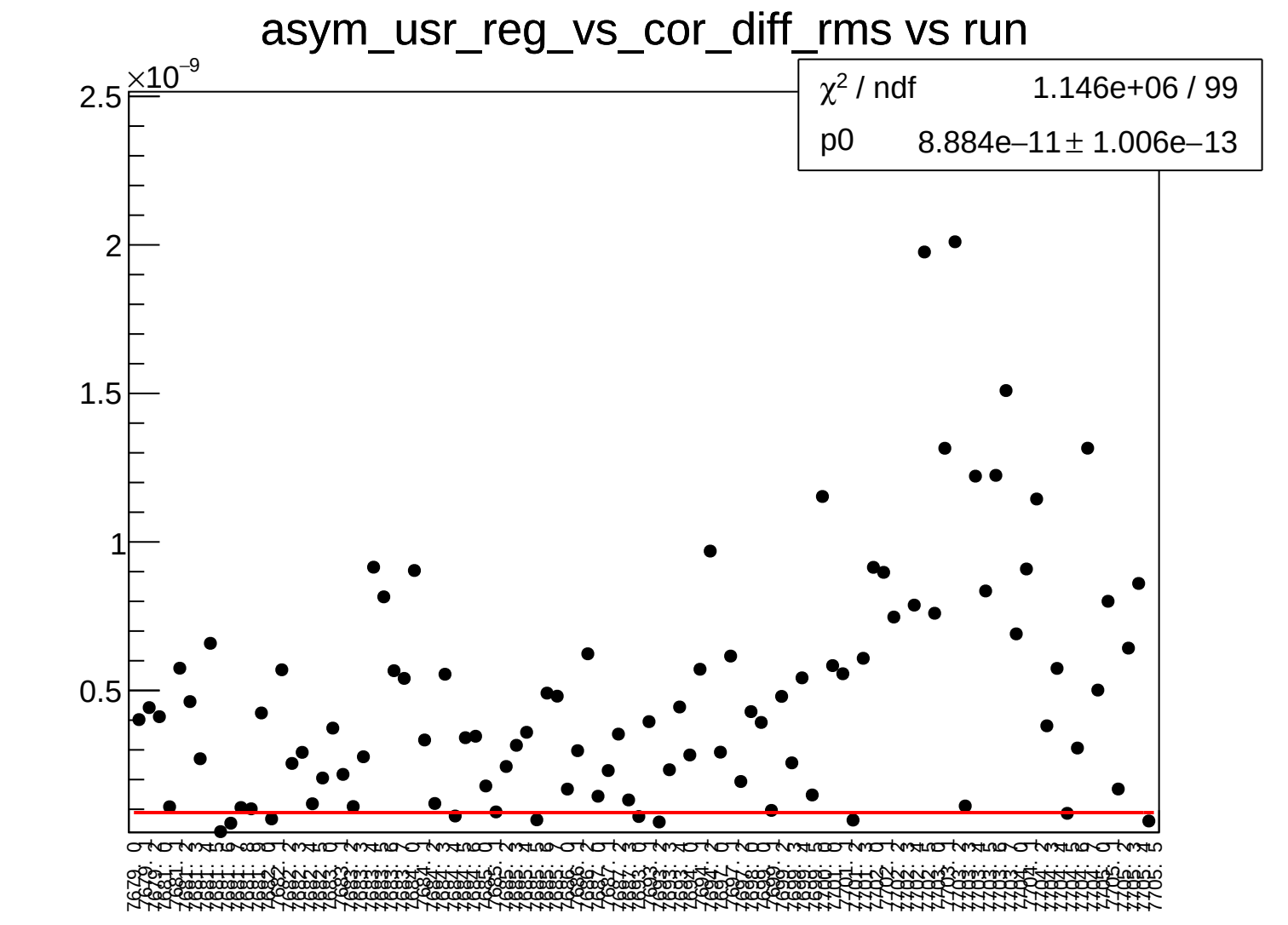

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 1.354e+04 / 99
p0 3028 ± 2.19
3600
3400
3200
3000
2800
2600
2400

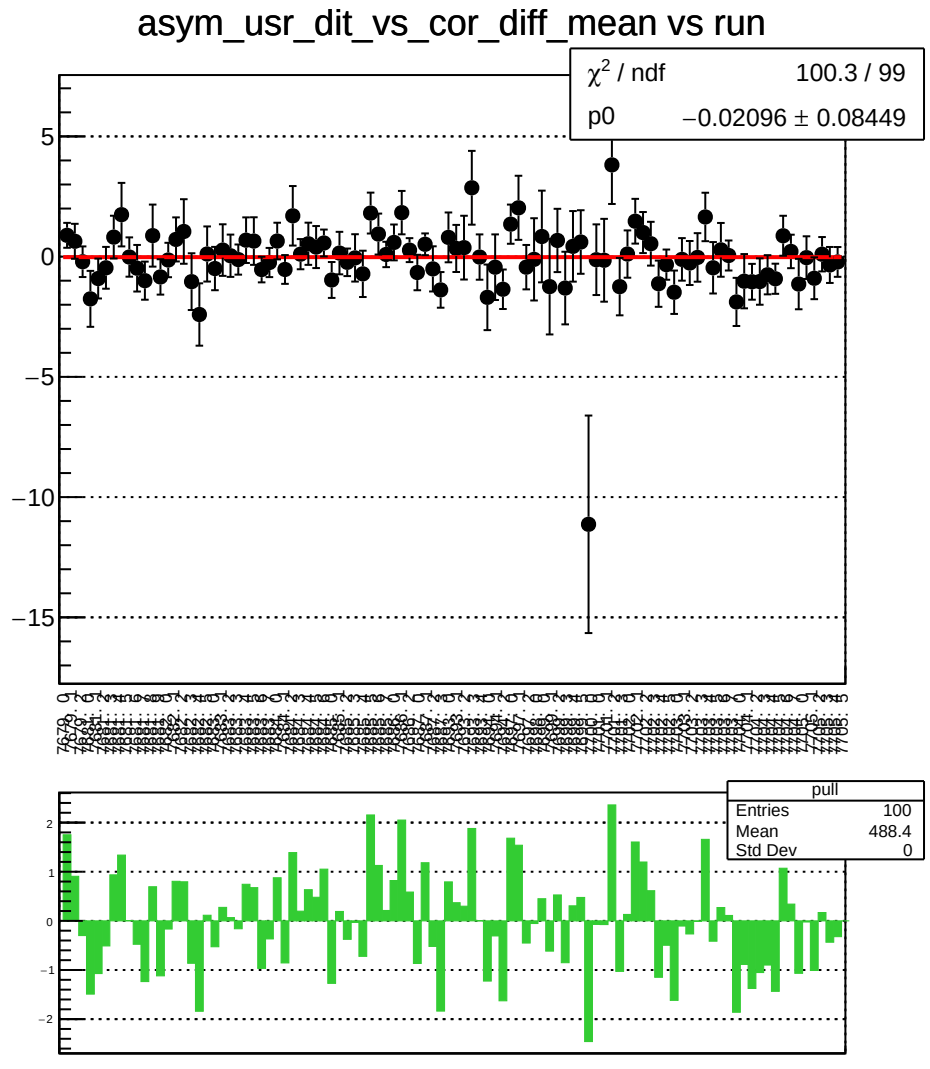

asym_usr_mean vs run
×10^3
χ^2 / ndf 95.6 / 99
p0 −3539 ± 3321
100
50
0
−50
−100
pull
Entries 100
Mean −1124
Std Dev 0
2
1
0
−1
−2

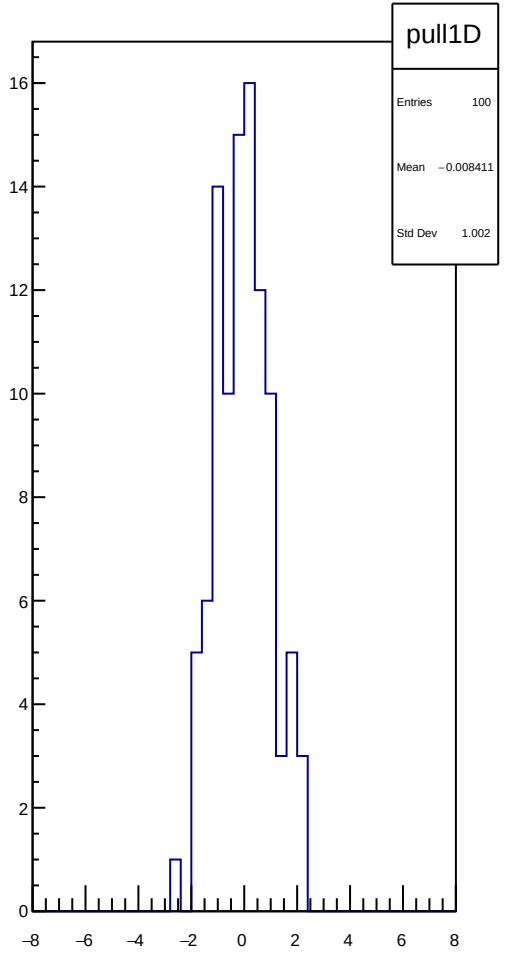

pull1D
Entries 100
Mean 0.004804
Std Dev 0.9777
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

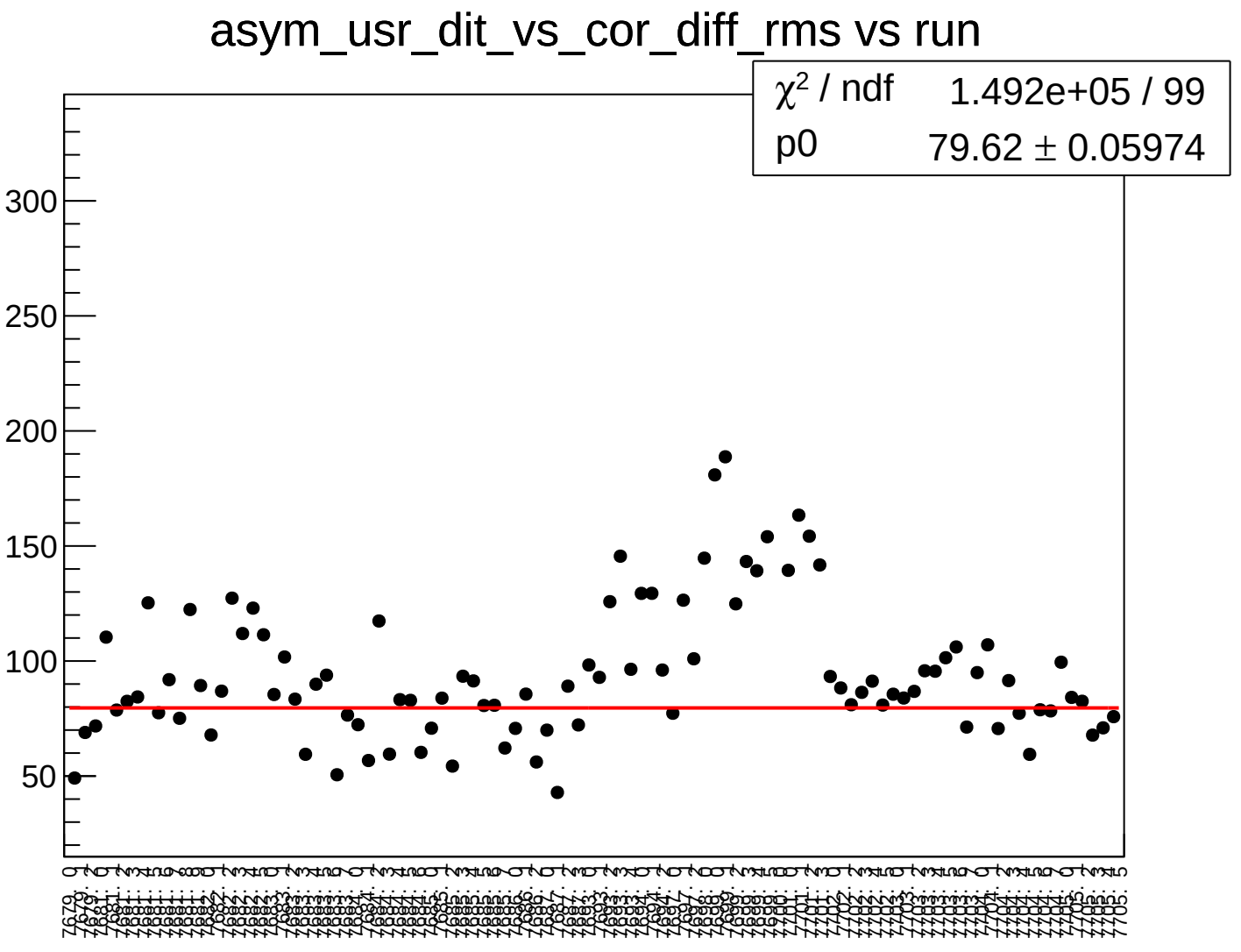

asym_usr_rms vs run
χ² / ndf 1.549e+04 / 99
p0 3245 ± 2.348
3800
3600
3400
3200
3000
2800
2600

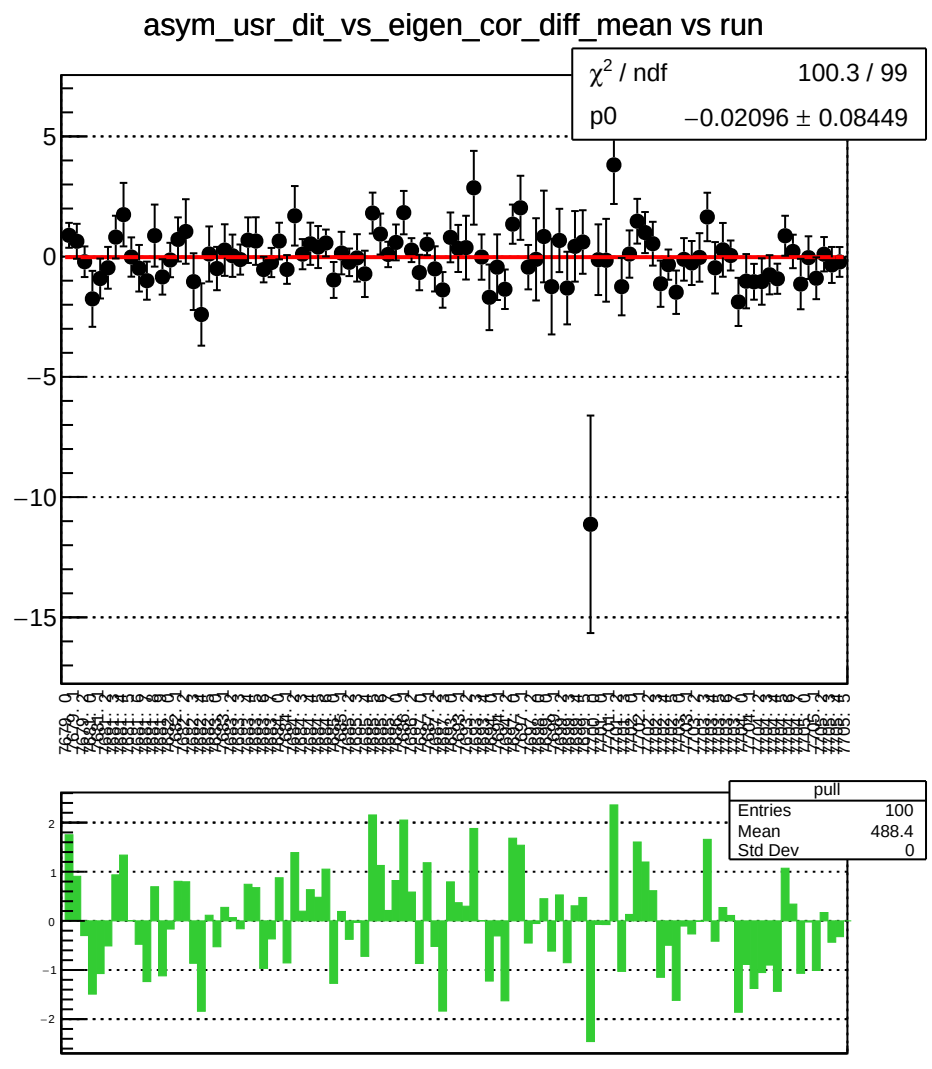

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 112.5 / 99
p0 −3.156e−13 ± 1.423e−13
pull
Entries 100
Mean 84.29
Std Dev 0
pull1D
Entries 100
Mean 0.06717
Std Dev 1.059

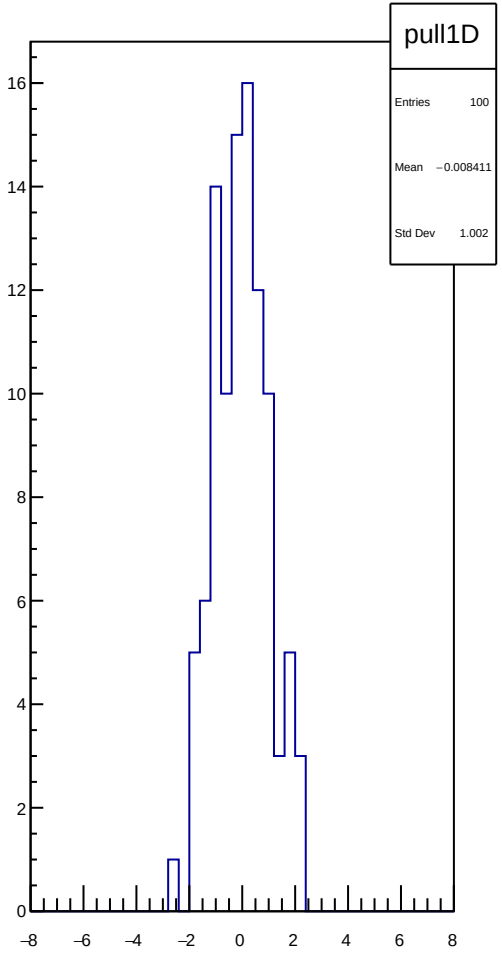

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
2.5
2
1.5
1
0.5
χ² / ndf 1.146e+06 / 99
p0 8.884e−11 ± 1.006e−13

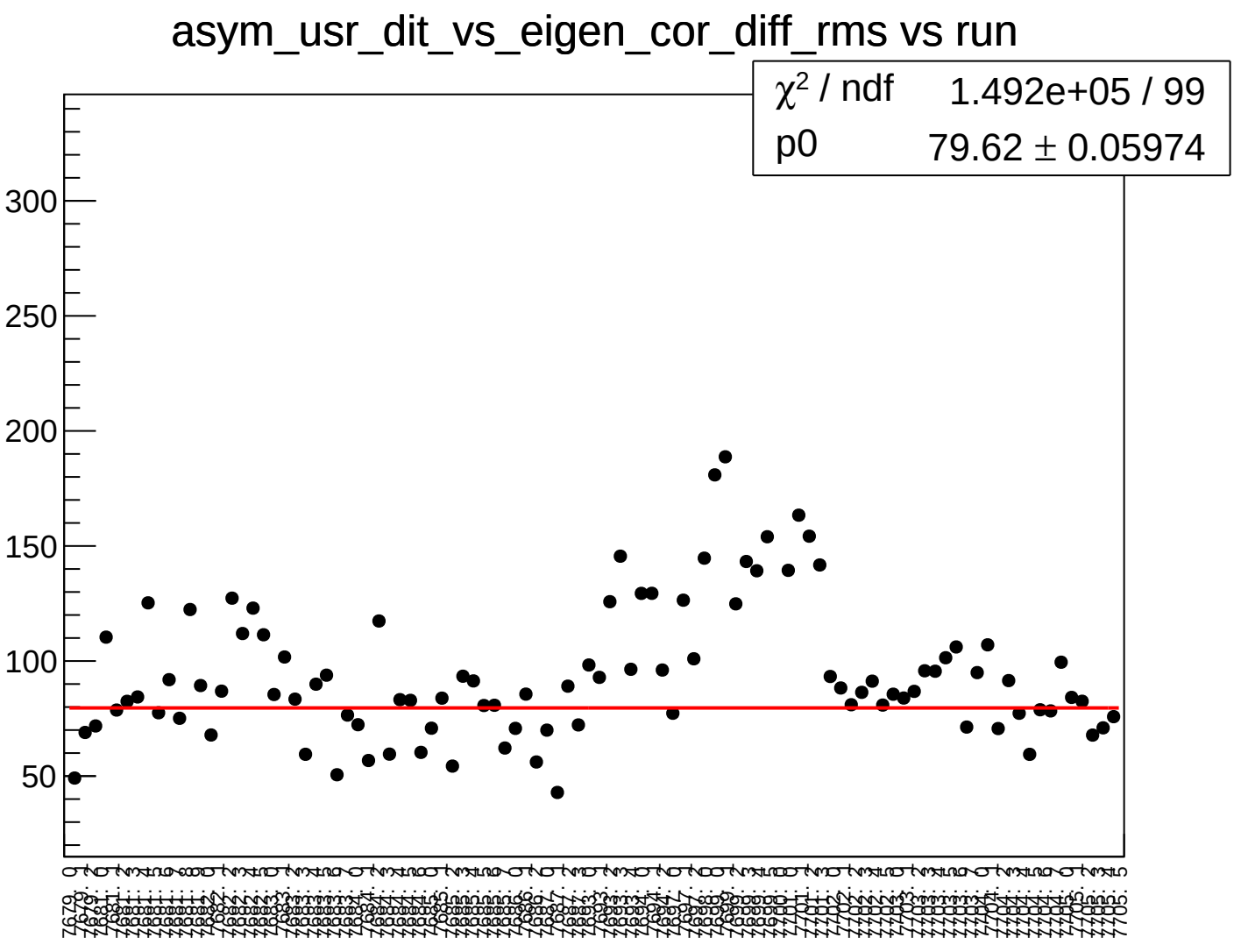

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 100.3 / 99
p0 −0.02096 ± 0.08449
5
0
−5
−10
−15
pull
Entries 100
Mean 488.4
Std Dev 0
2
1
0
−1
−2

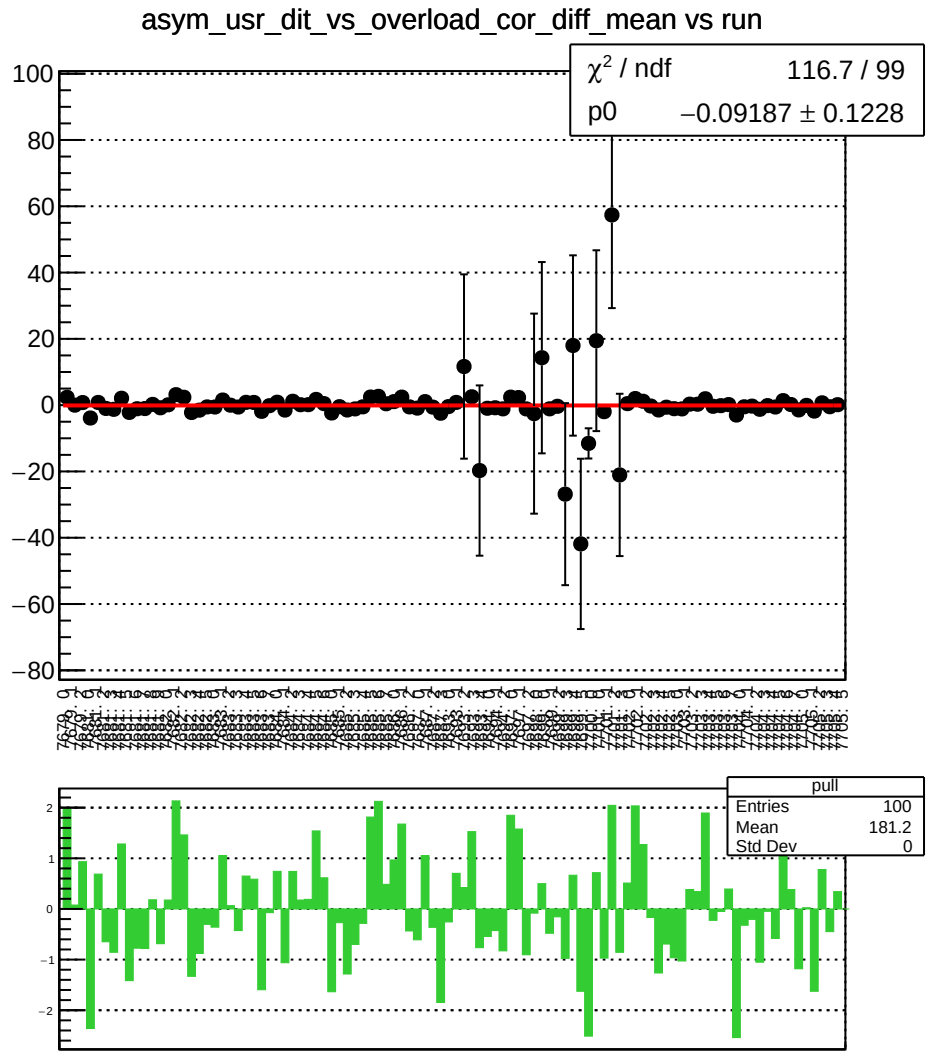

pull1D
Entries 100
Mean −0.008411
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

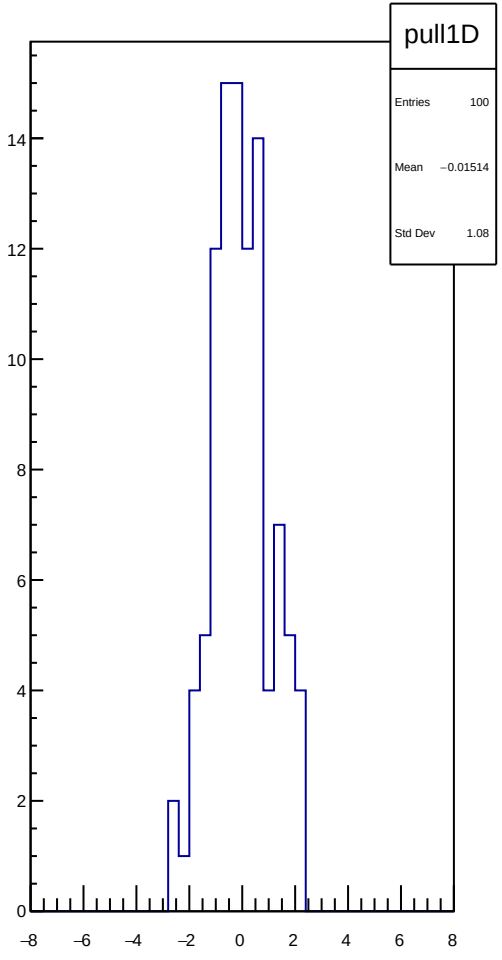

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 1.492e+05 / 99
p0 79.62 ± 0.05974
300
250
200
150
100
50

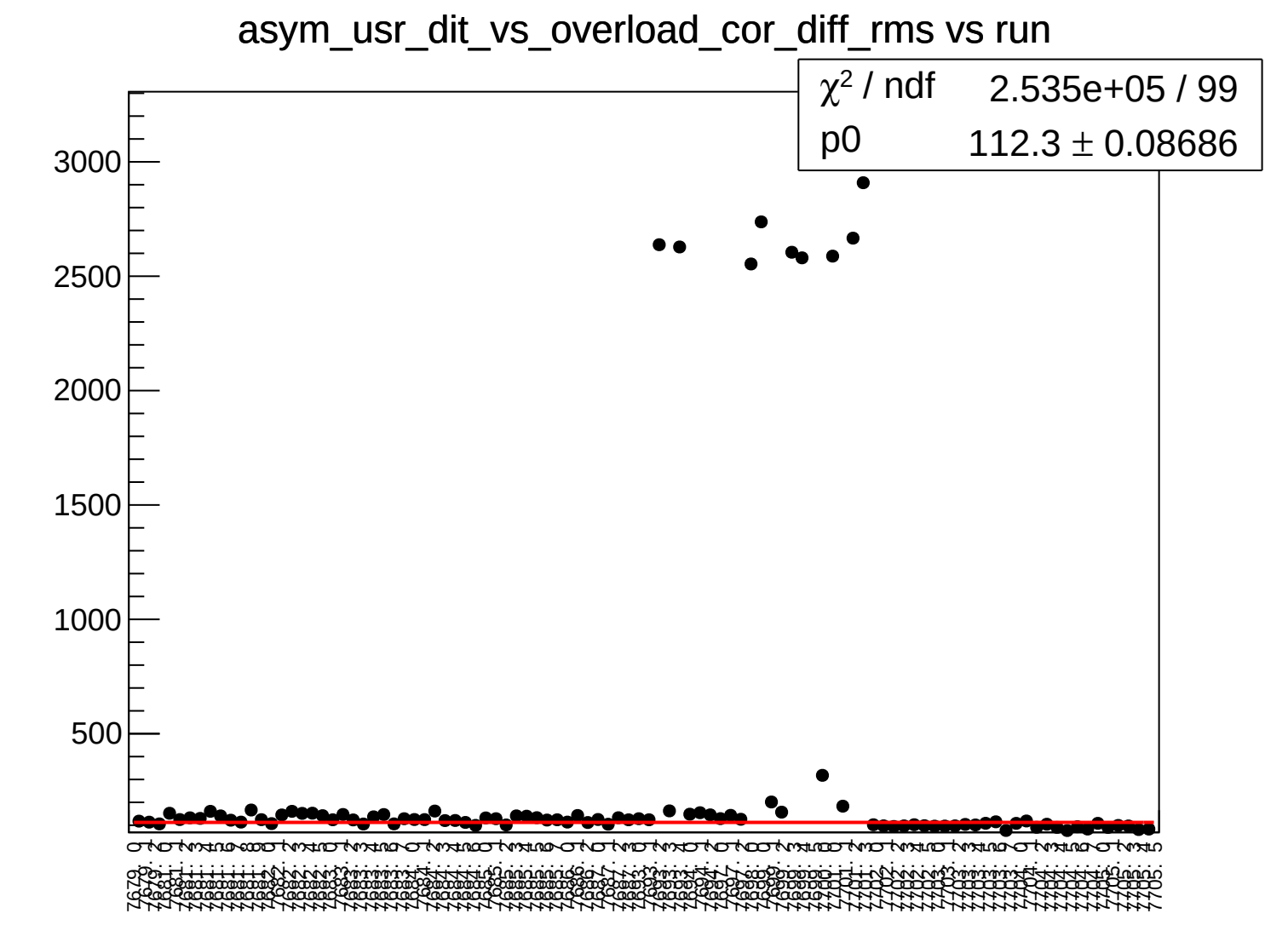

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.3 / 99
p0 −0.02096 ± 0.08449
pull
Entries 100
Mean 488.4
Std Dev 0

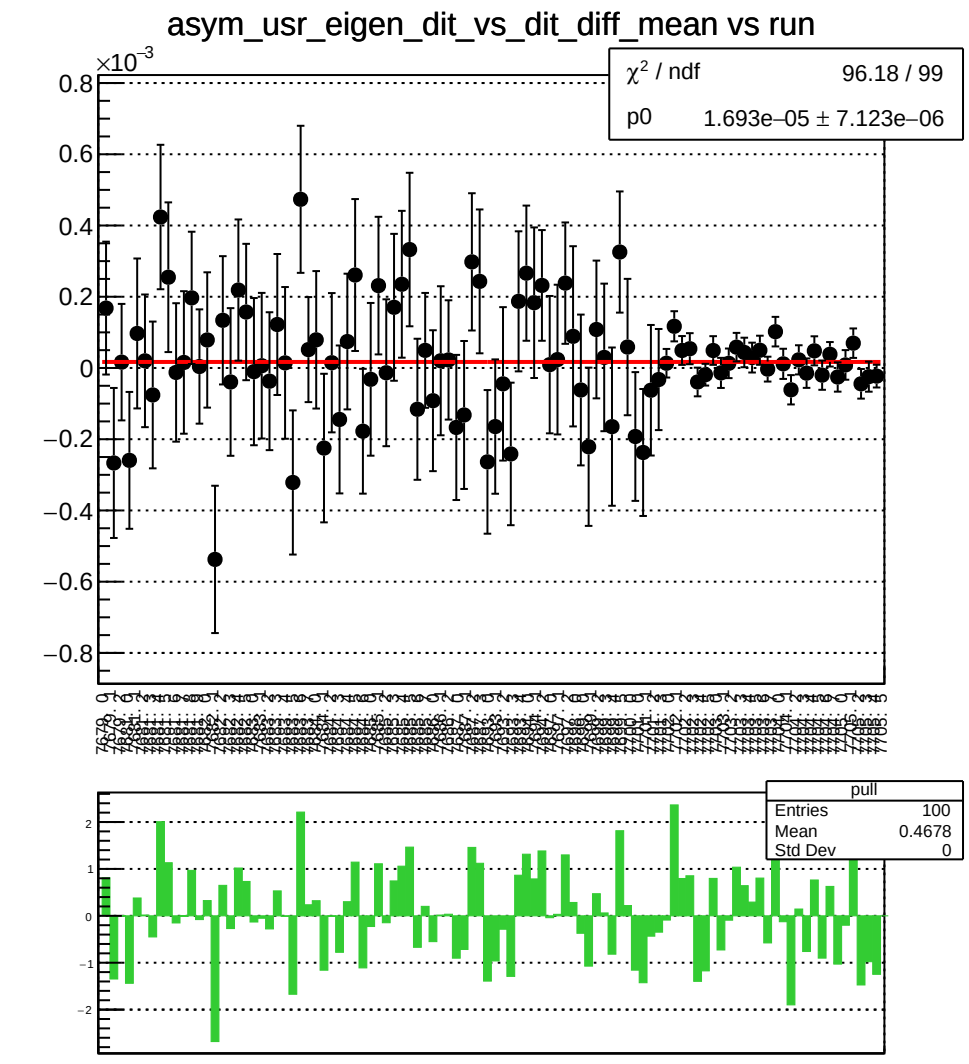

pull1D
Entries 100
Mean −0.008411
Std Dev 1.002

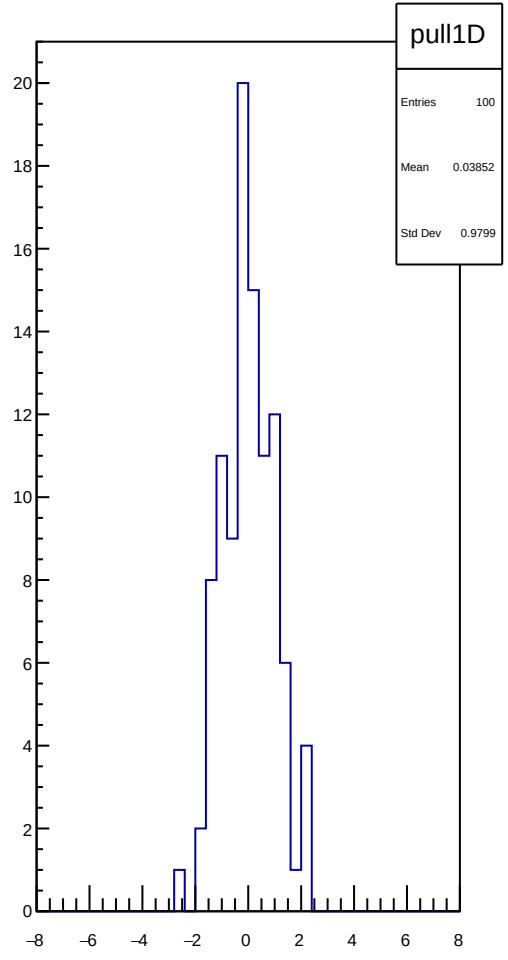

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.492e+05 / 99
p0 79.62 ± 0.05974
300
250
200
150
100
50

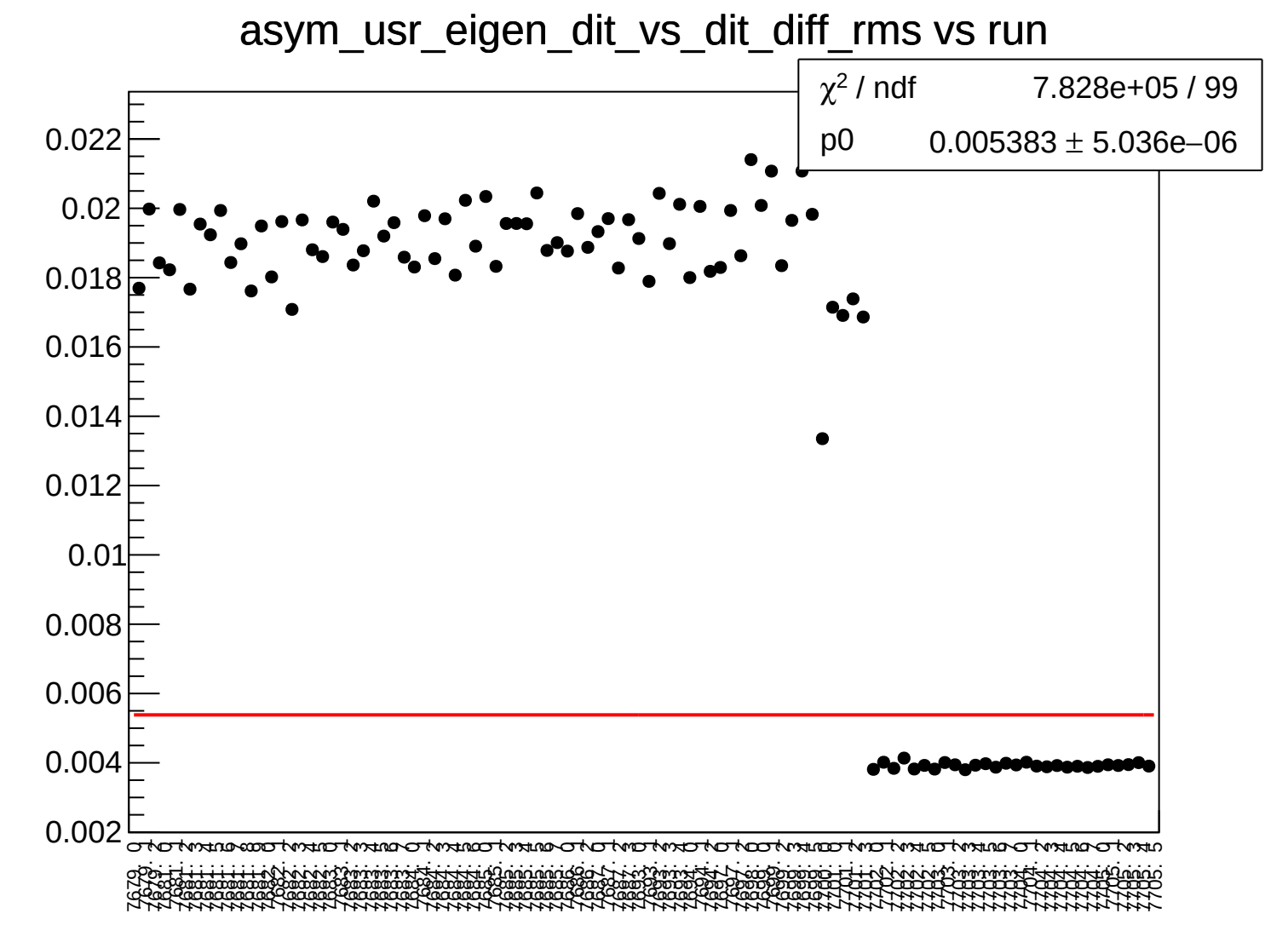

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 116.7 / 99
p0 −0.09187 ± 0.1228
pull
Entries 100
Mean 181.2
Std Dev 0

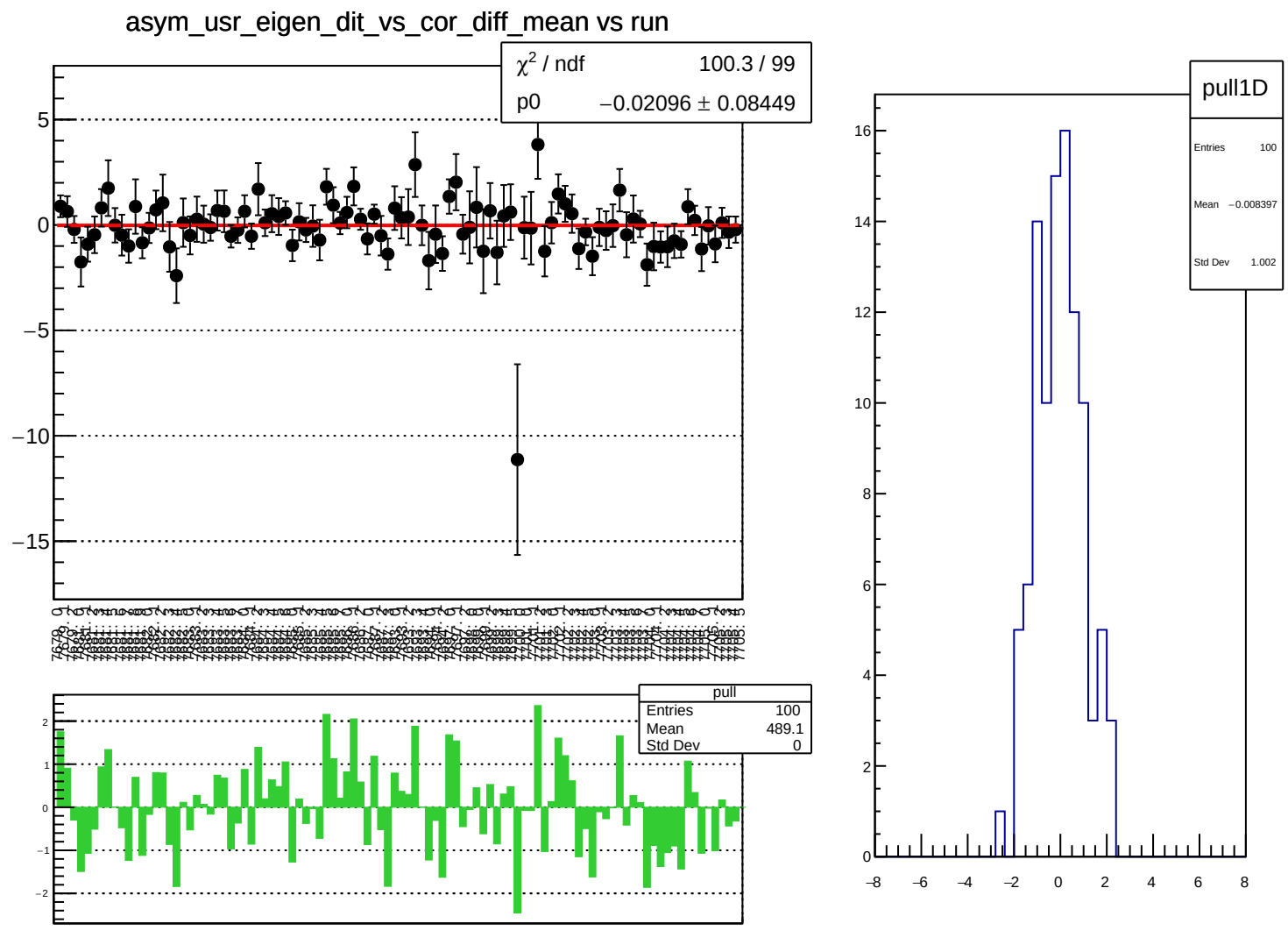

pull1D
Entries 100
Mean −0.01514
Std Dev 1.08

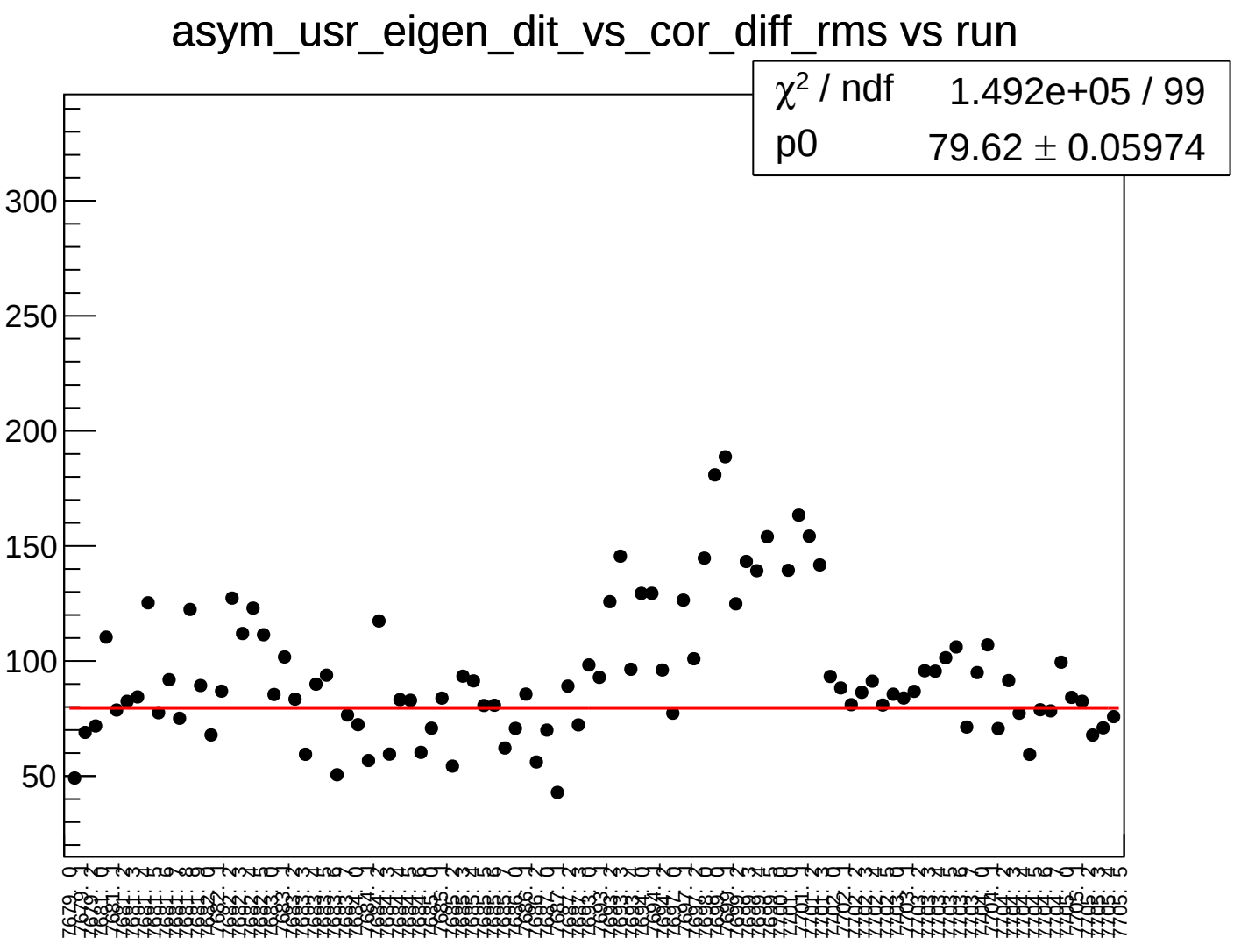

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.535e+05 / 99
p0 112.3 ± 0.08686
3000
2500
2000
1500
1000
500

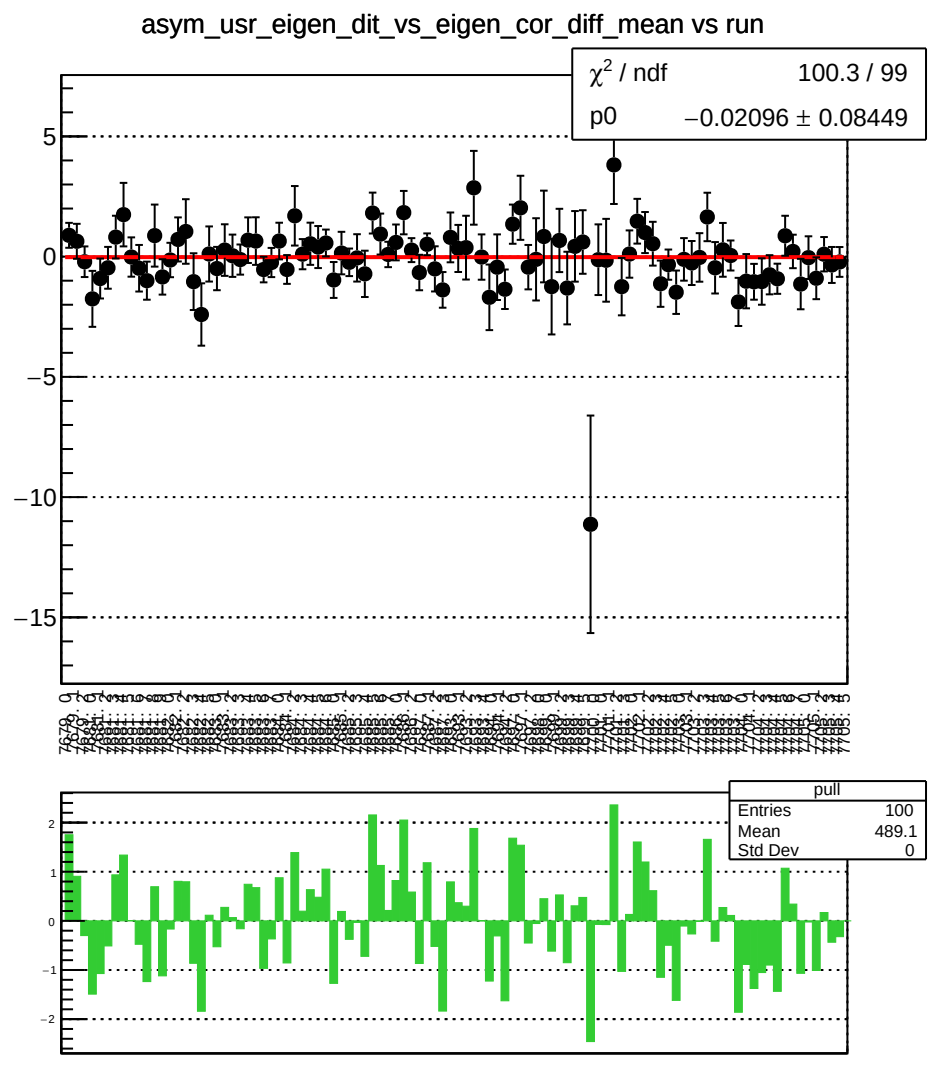

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.18 / 99
p0 1.693e−05 ± 7.123e−06
pull
Entries 100
Mean 0.4678
Std Dev 0

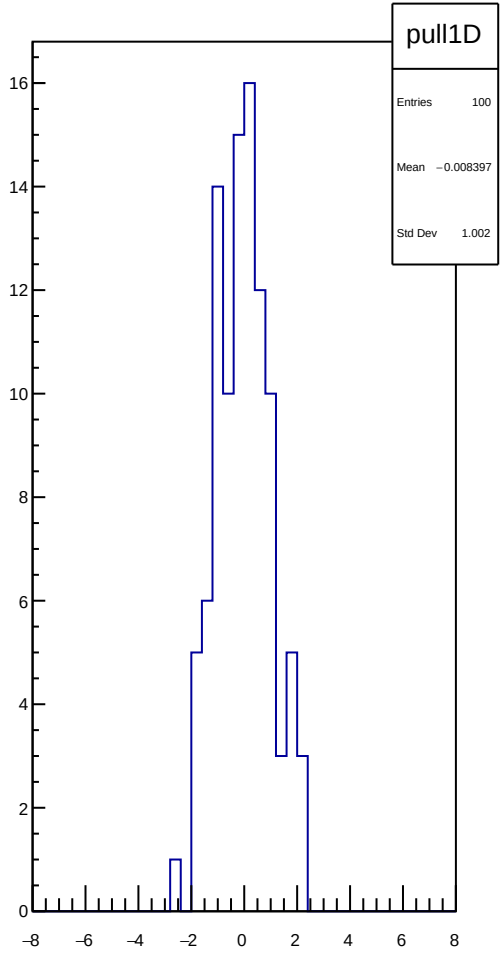

pull1D
Entries 100
Mean 0.03852
Std Dev 0.9799

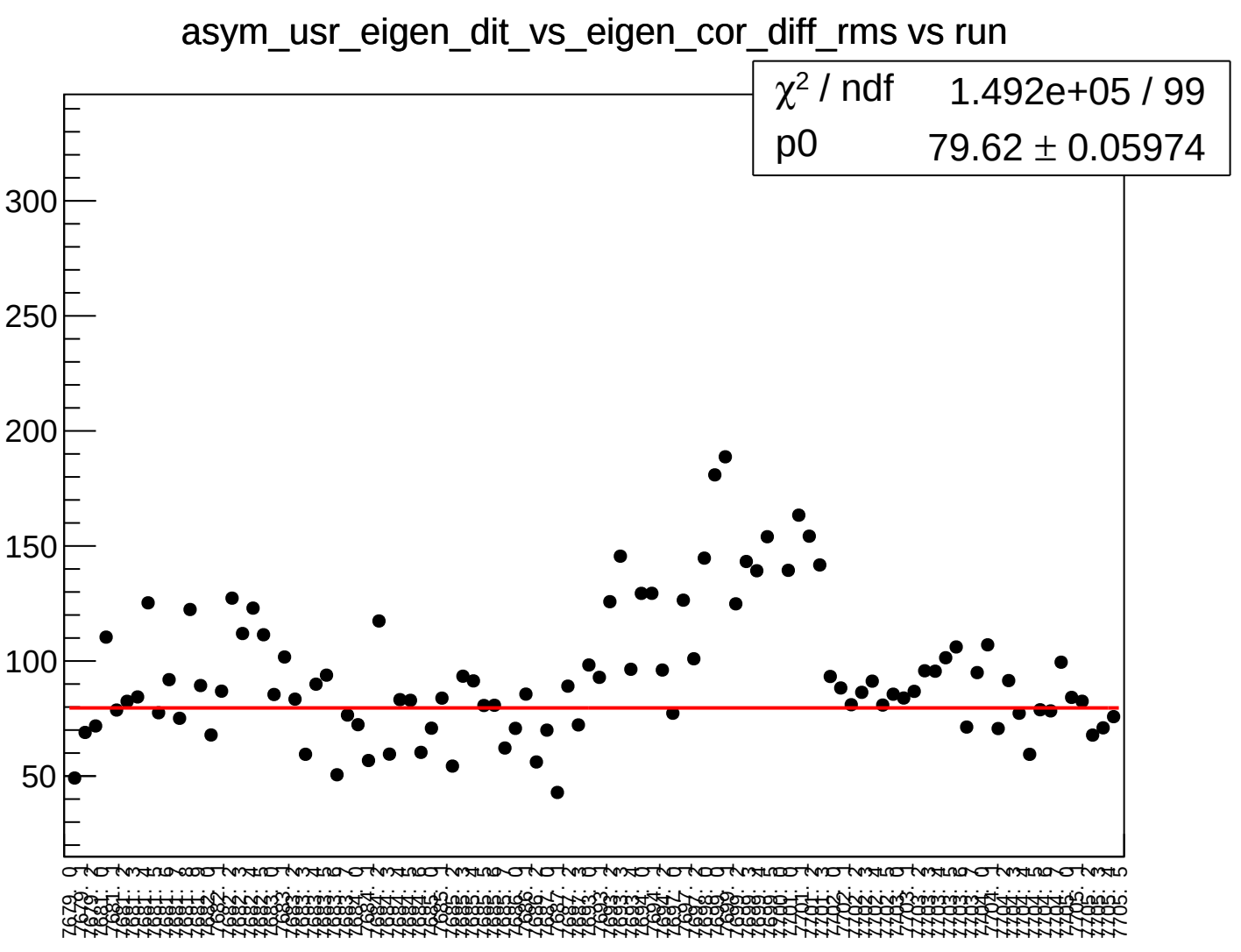

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.828e+05 / 99
p0 0.005383 ± 5.036e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

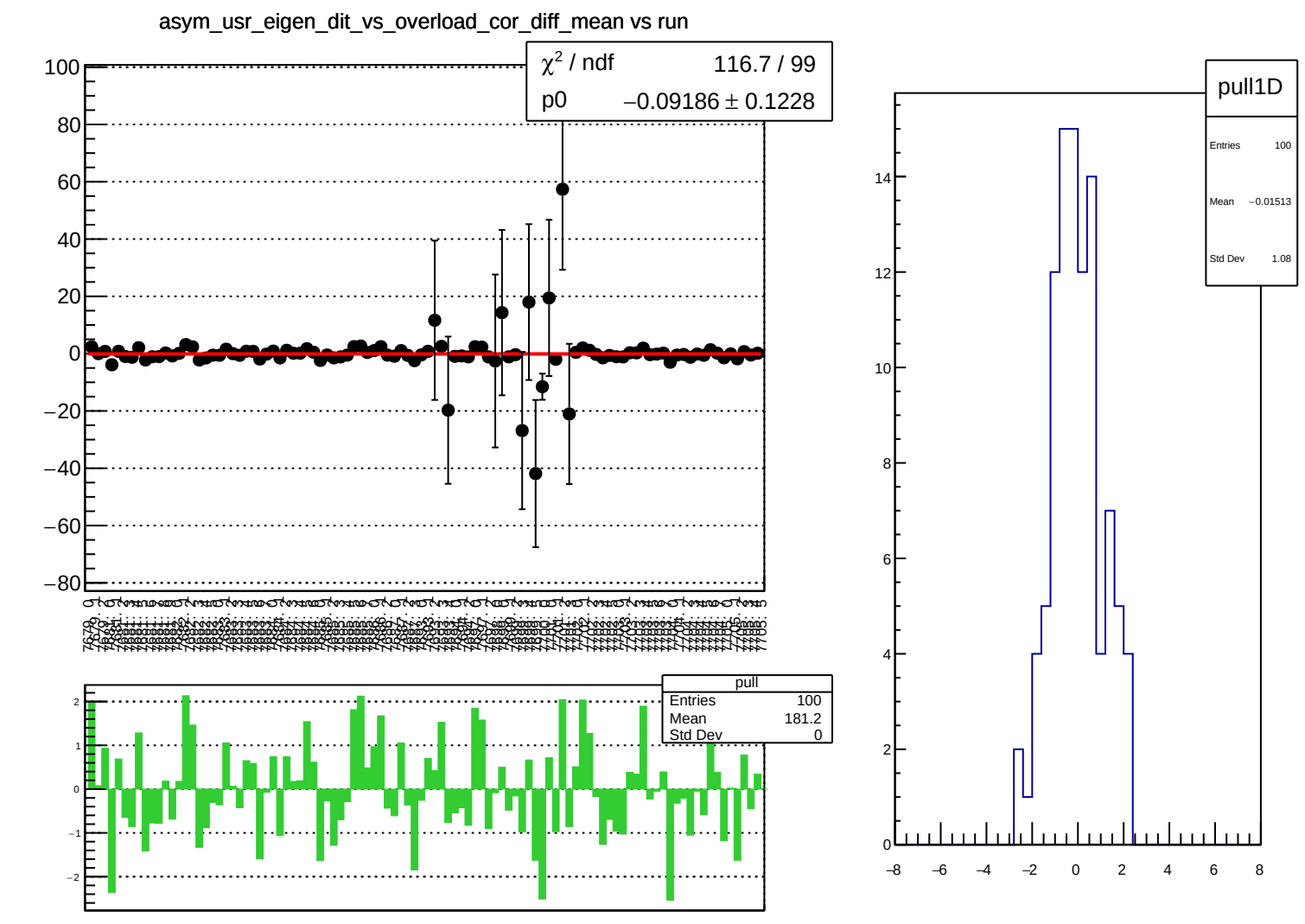

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.3 / 99
p0 −0.02096 ± 0.08449
pull
Entries 100
Mean 489.1
Std Dev 0
pull1D
Entries 100
Mean −0.008397
Std Dev 1.002

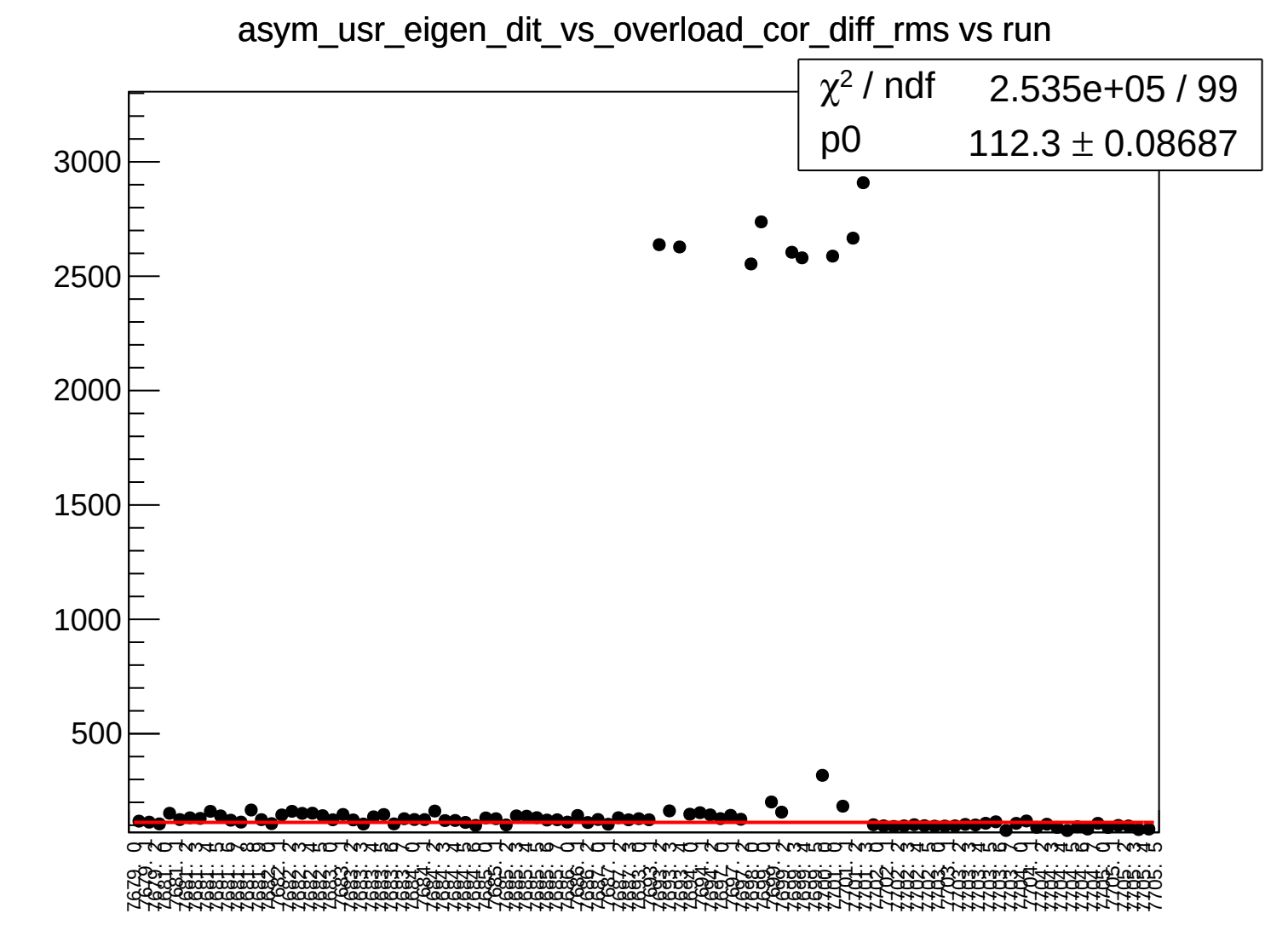

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.492e+05 / 99
p0 79.62 ± 0.05974
300
250
200
150
100
50

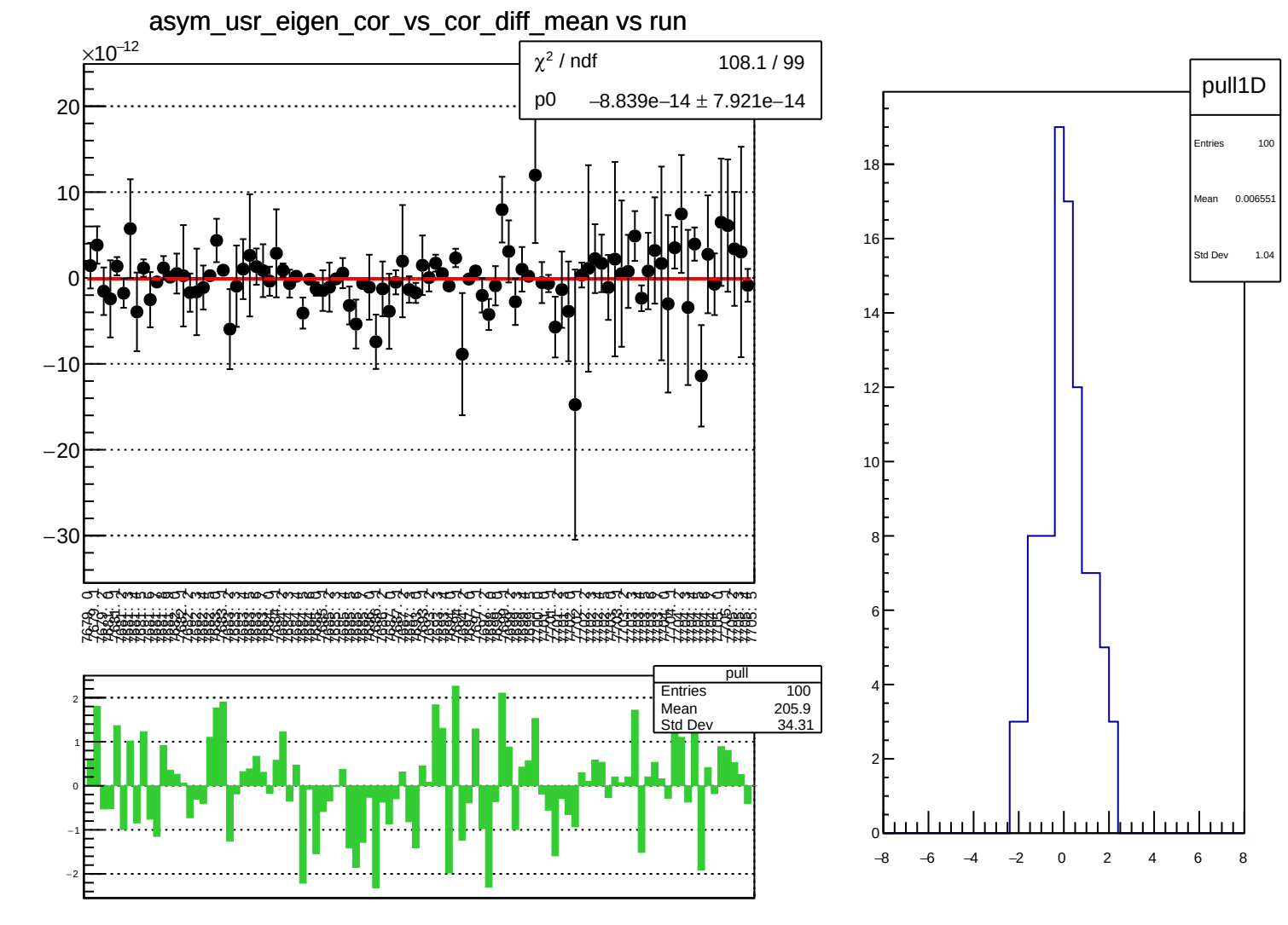

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.3 / 99
p0 −0.02096 ± 0.08449
5
0
−5
−10
−15
pull
Entries 100
Mean 489.1
Std Dev 0
2
1
0
−1
−2

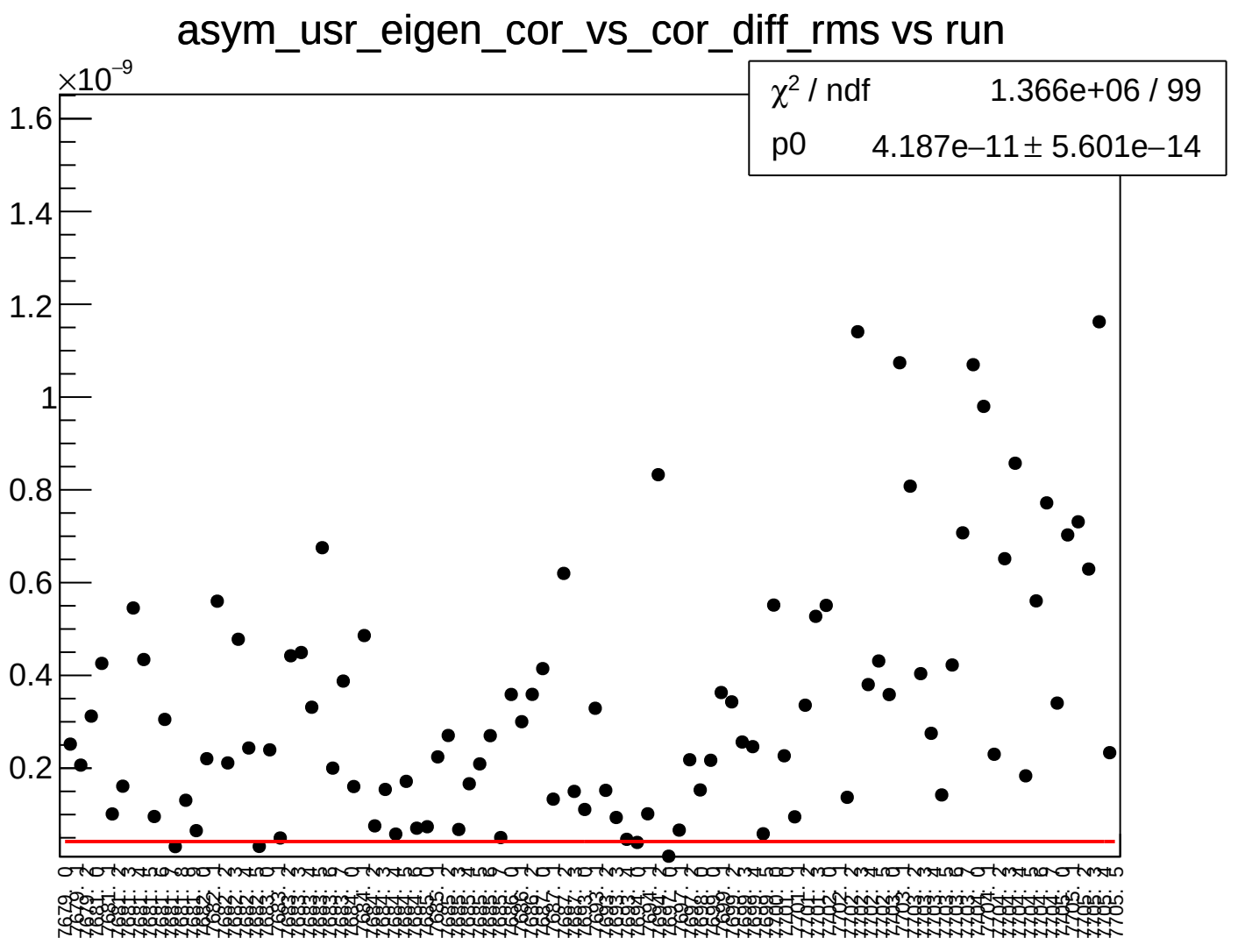

pull1D
Entries 100
Mean −0.008397
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

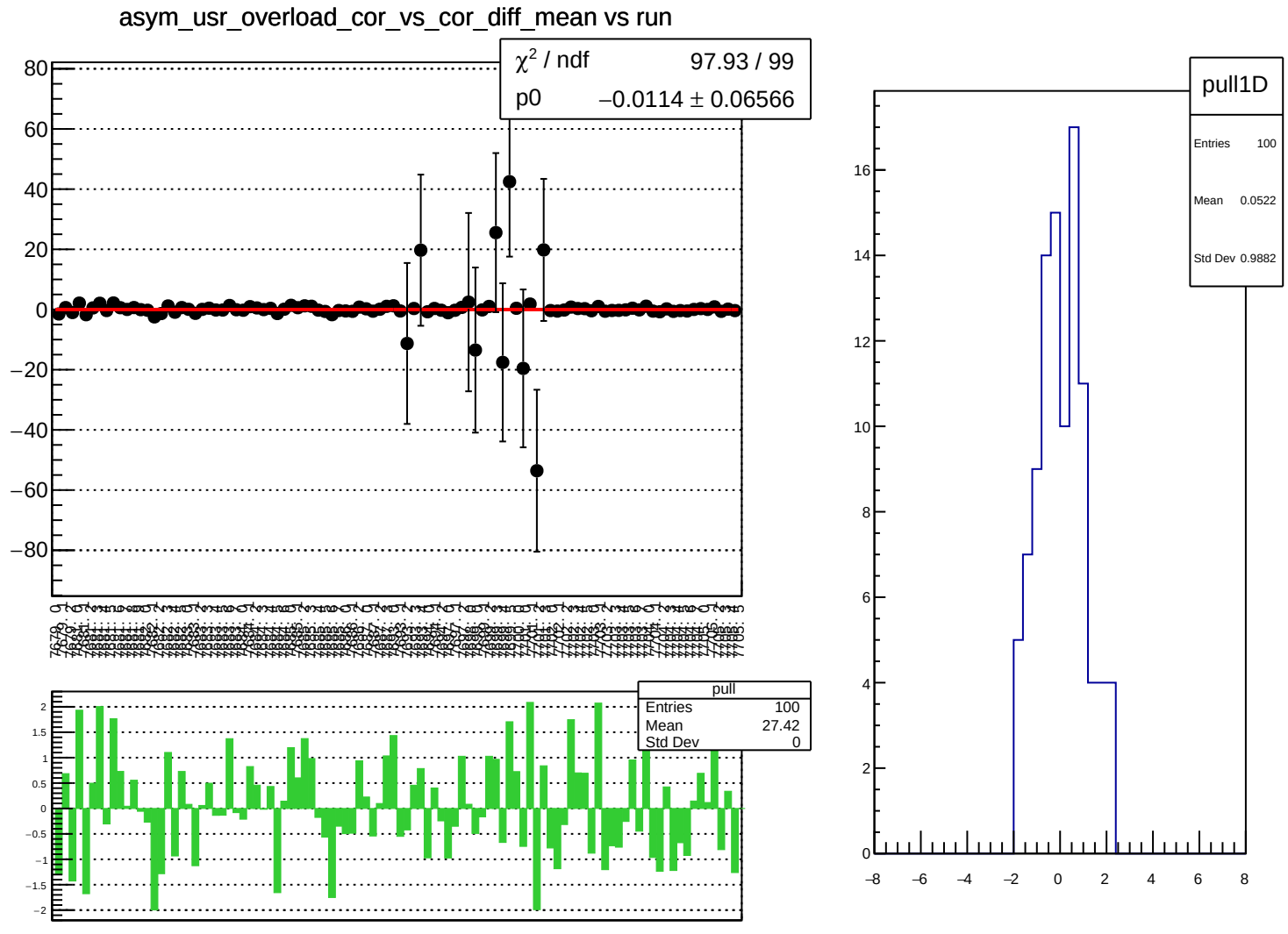

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.492e+05 / 99
p0 79.62 ± 0.05974
300
250
200
150
100
50

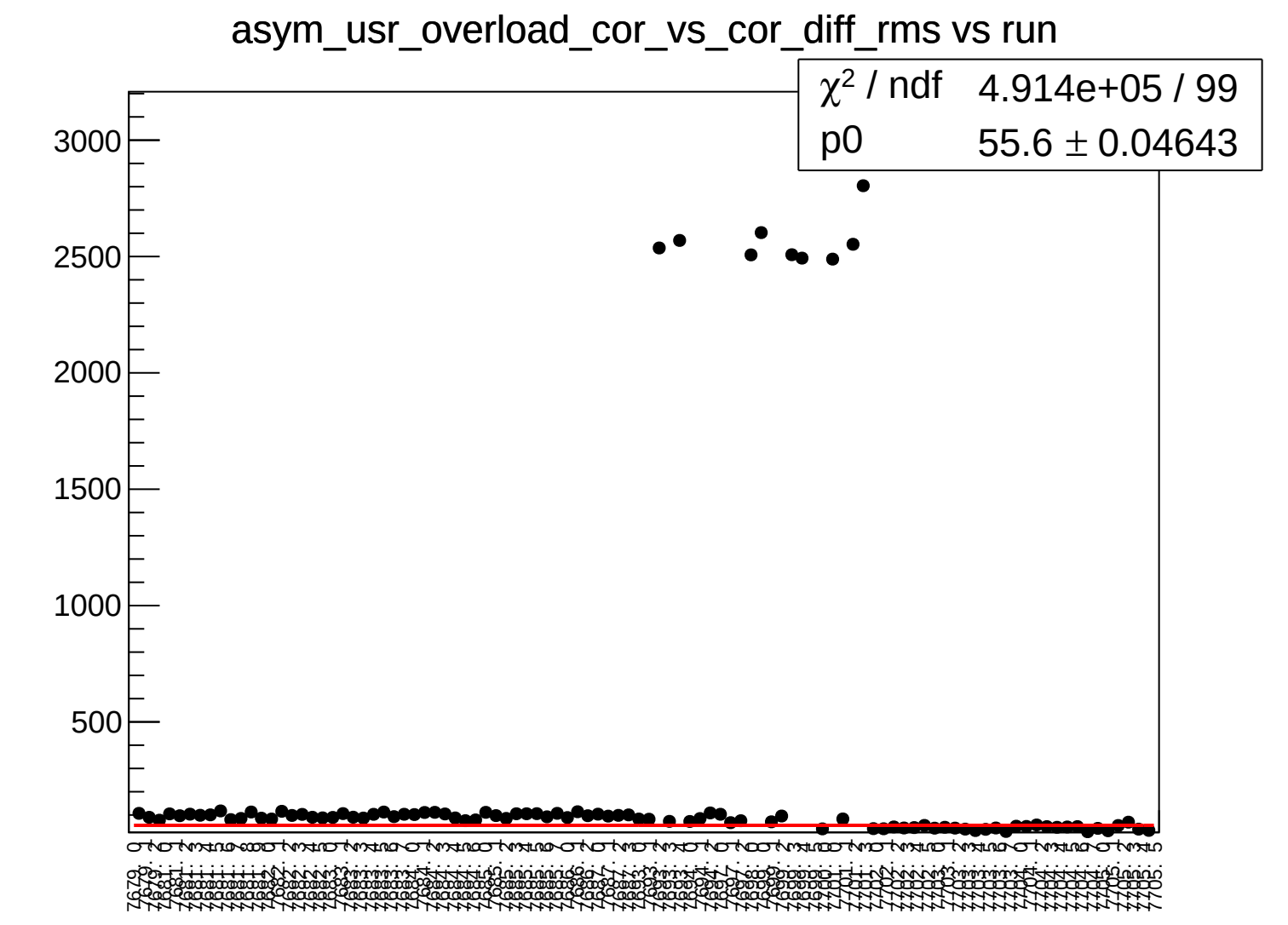

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 116.7 / 99
p0 −0.09186 ± 0.1228
pull
Entries 100
Mean 181.2
Std Dev 0
pull1D
Entries 100
Mean −0.01513
Std Dev 1.08

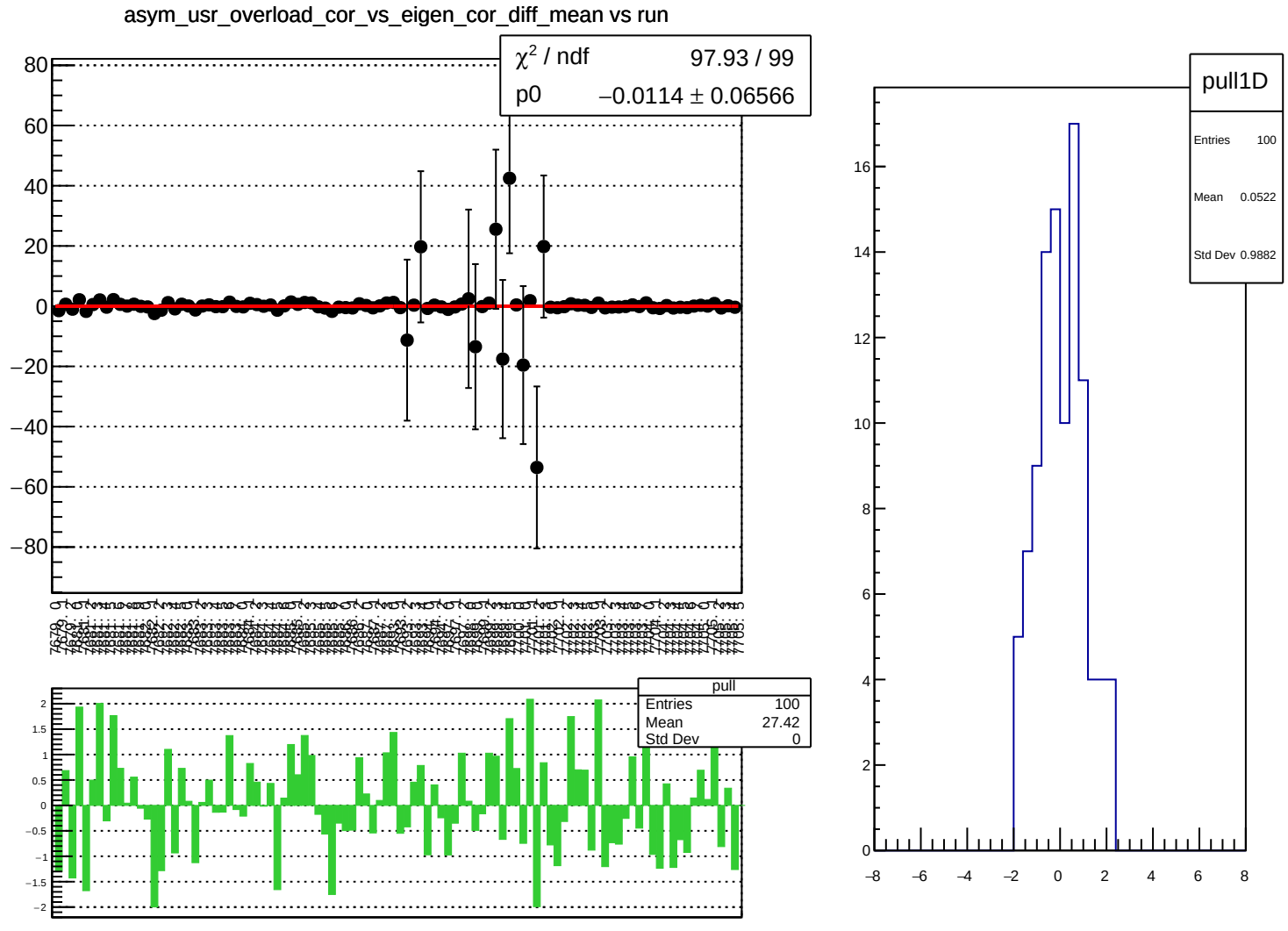

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.535e+05 / 99
p0 112.3 ± 0.08687
3000
2500
2000
1500
1000
500

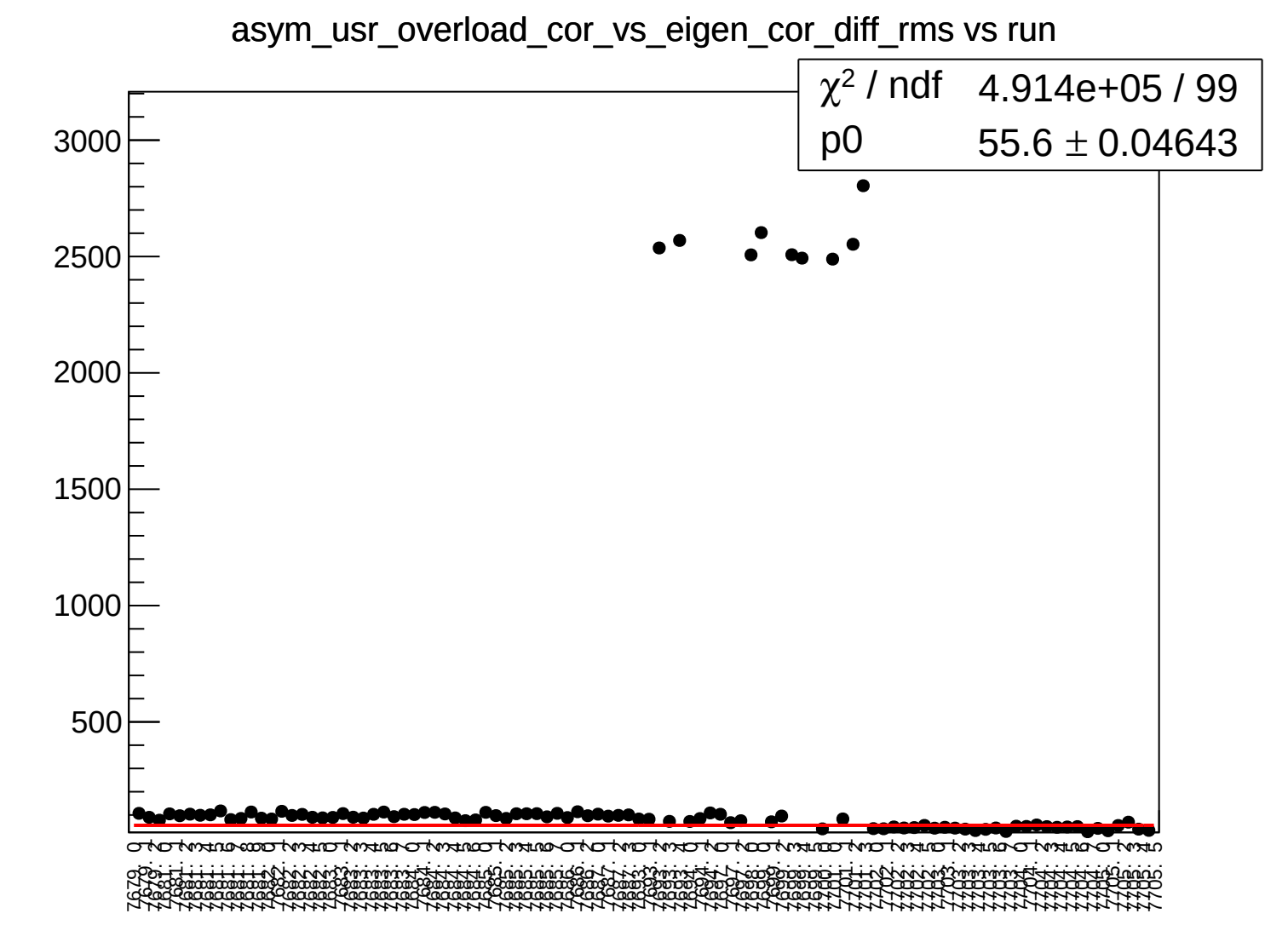

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 108.1 / 99
p0 −8.839e−14 ± 7.921e−14
20
10
0
−10
−20
−30
pull
Entries 100
Mean 205.9
Std Dev 34.31
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.006551
Std Dev 1.04
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

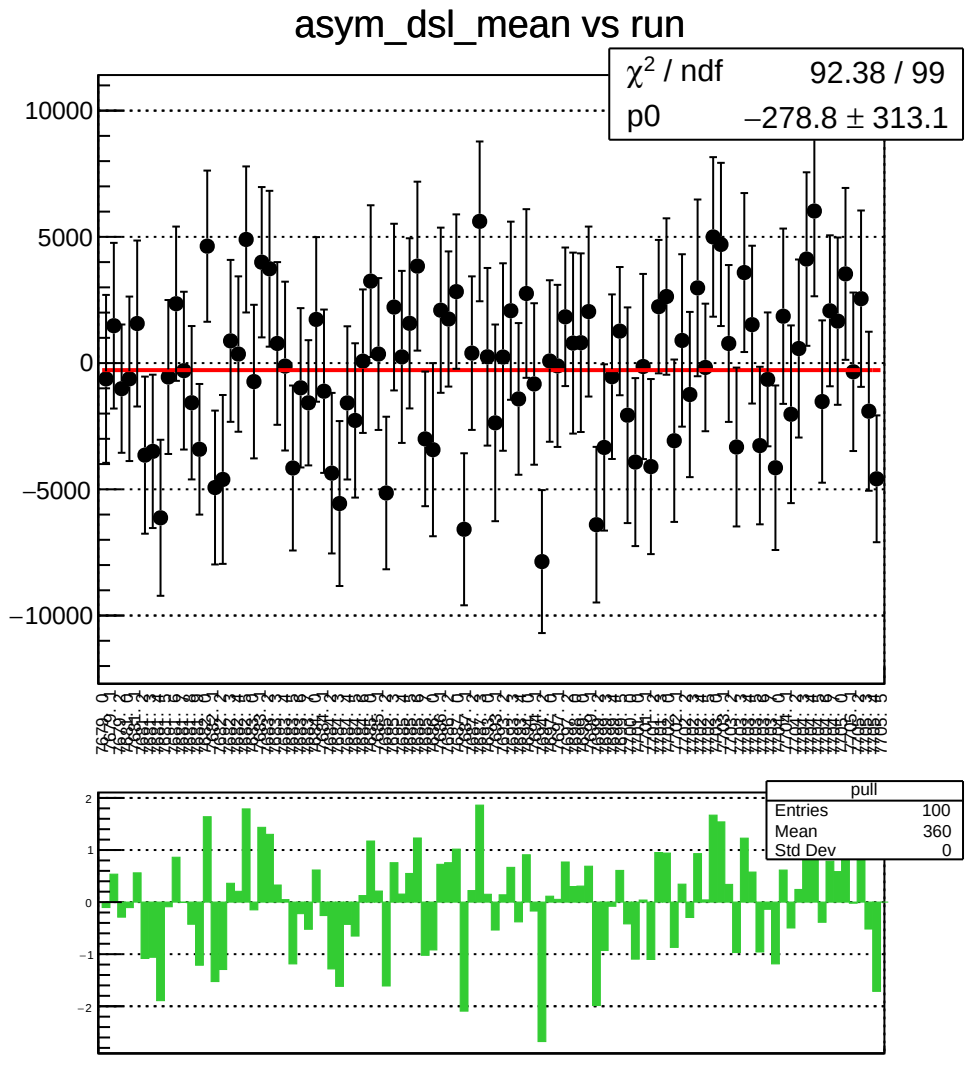

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.366e+06 / 99
p0 4.187e−11 ± 5.601e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

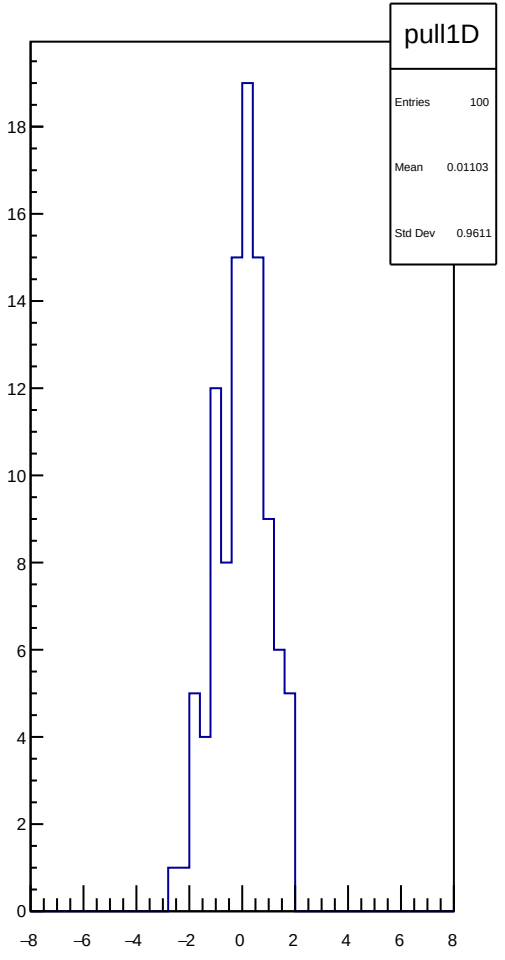

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 97.93 / 99
p0 −0.0114 ± 0.06566
pull
Entries 100
Mean 27.42
Std Dev 0
pull1D
Entries 100
Mean 0.0522
Std Dev 0.9882

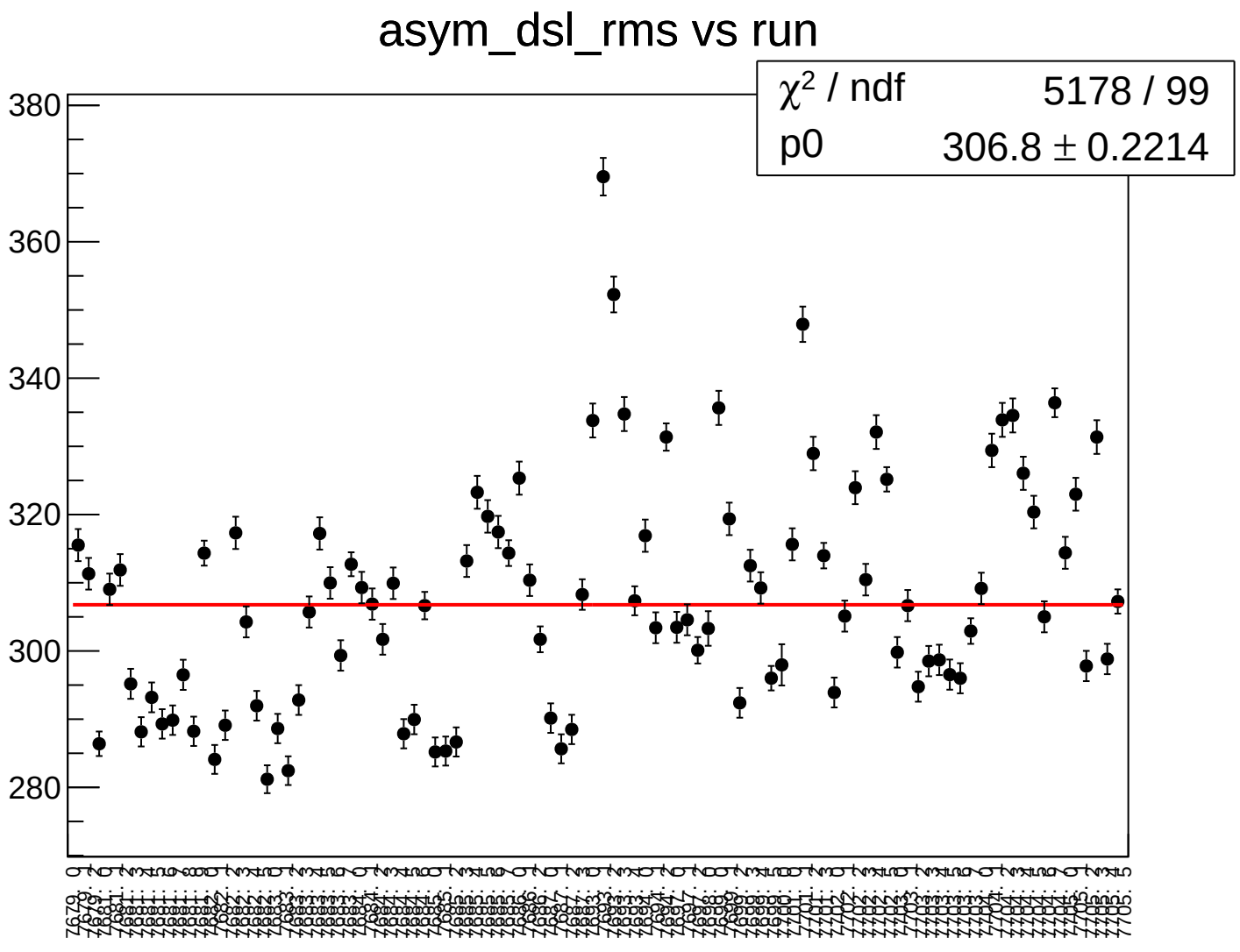

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 4.914e+05 / 99
p0 55.6 ± 0.04643
3000
2500
2000
1500
1000
500

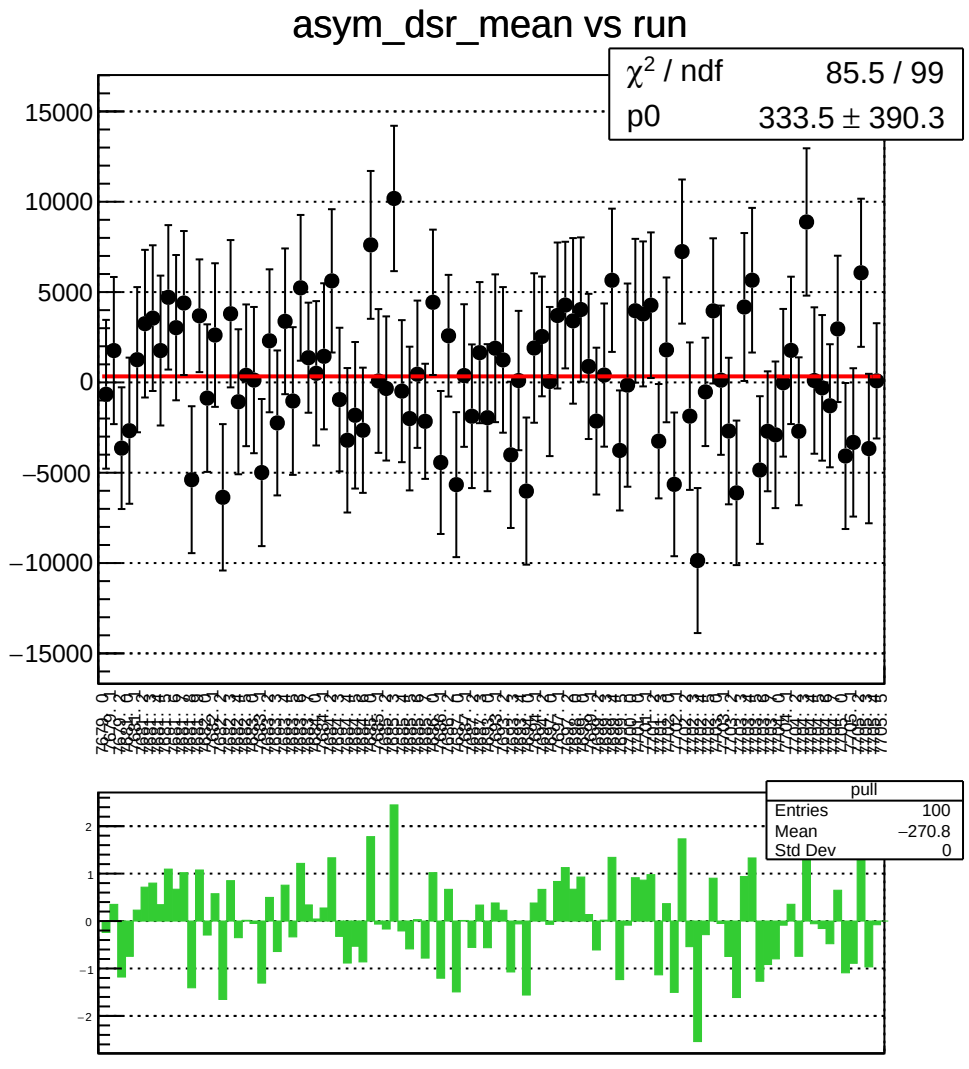

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.93 / 99
p0 −0.0114 ± 0.06566
pull
Entries 100
Mean 27.42
Std Dev 0
pull1D
Entries 100
Mean 0.0522
Std Dev 0.9882

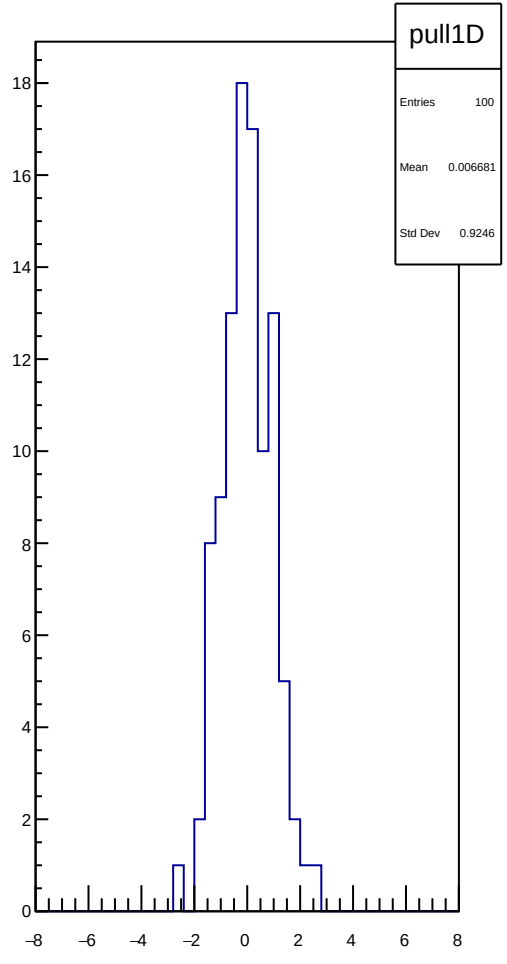

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.914e+05 / 99
p0 55.6 ± 0.04643
3000
2500
2000
1500
1000
500

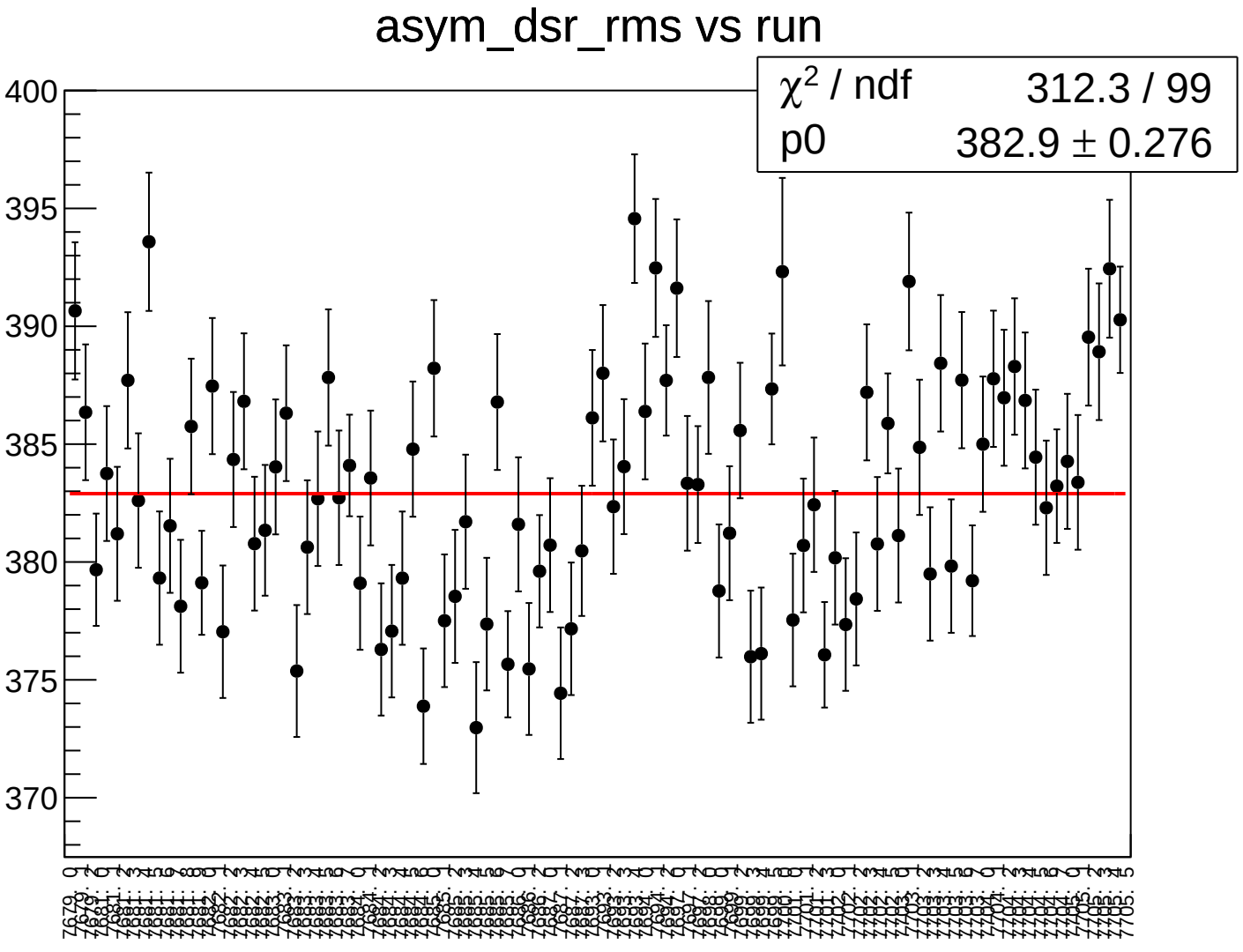

asym_dsl_mean vs run
χ² / ndf 92.38 / 99
p0 −278.8 ± 313.1
10000
5000
0
−5000
−10000
pull
Entries 100
Mean 360
Std Dev 0
2
1
0
−1
−2

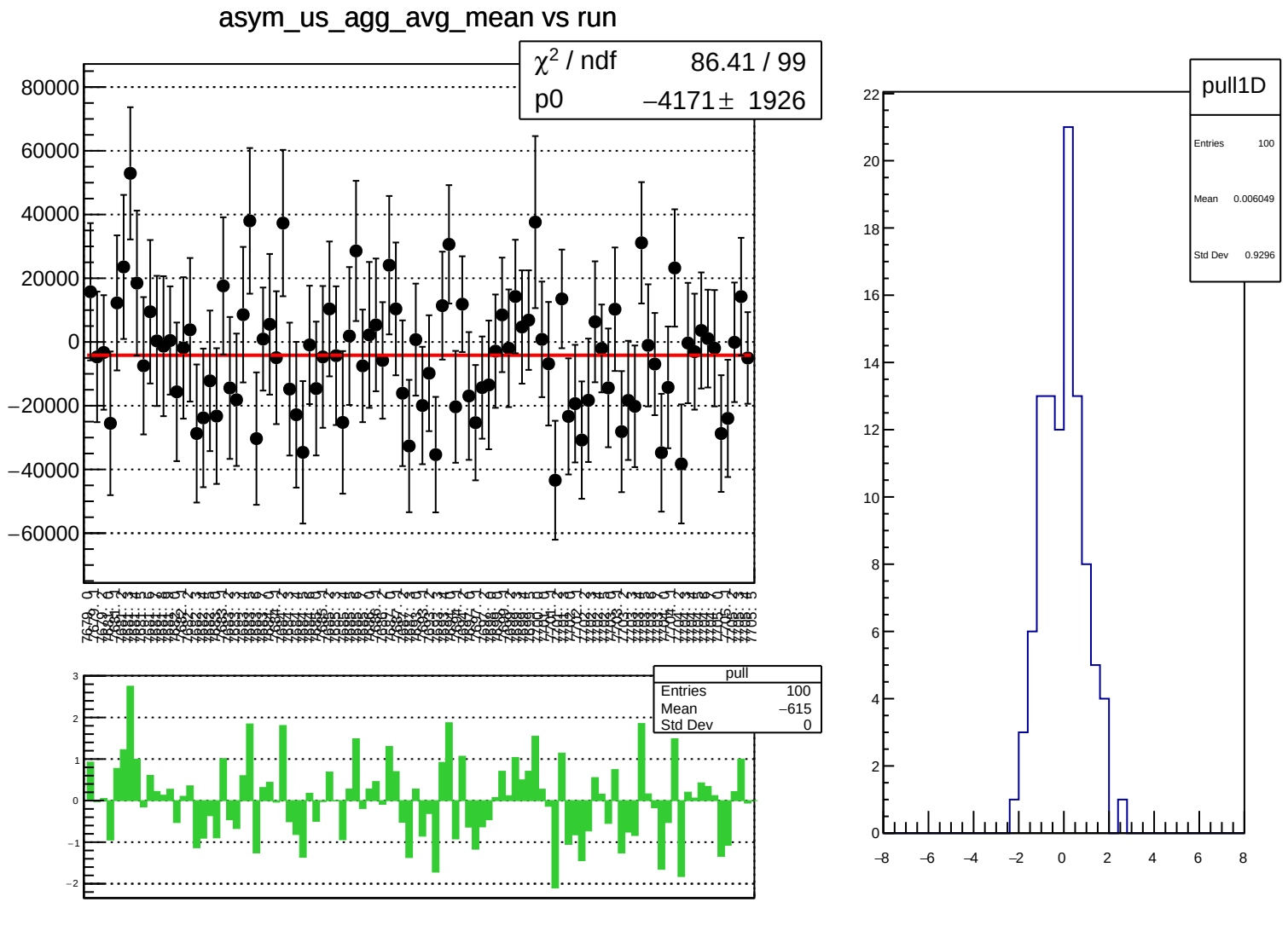

pull1D
Entries 100
Mean 0.01103
Std Dev 0.9611
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

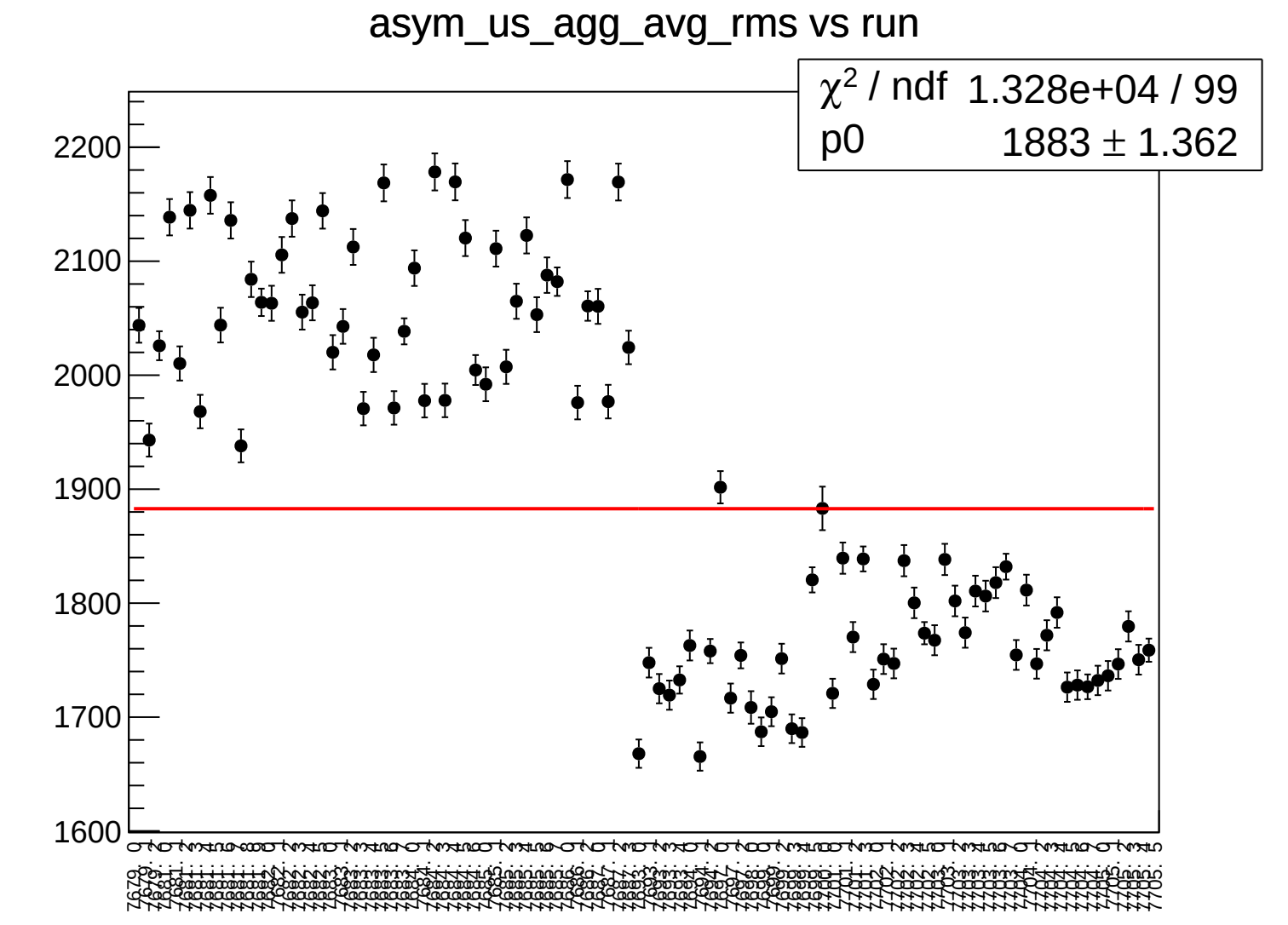

asym_dsl_rms vs run
χ² / ndf 5178 / 99
p0 306.8 ± 0.2214
380
360
340
320
300
280

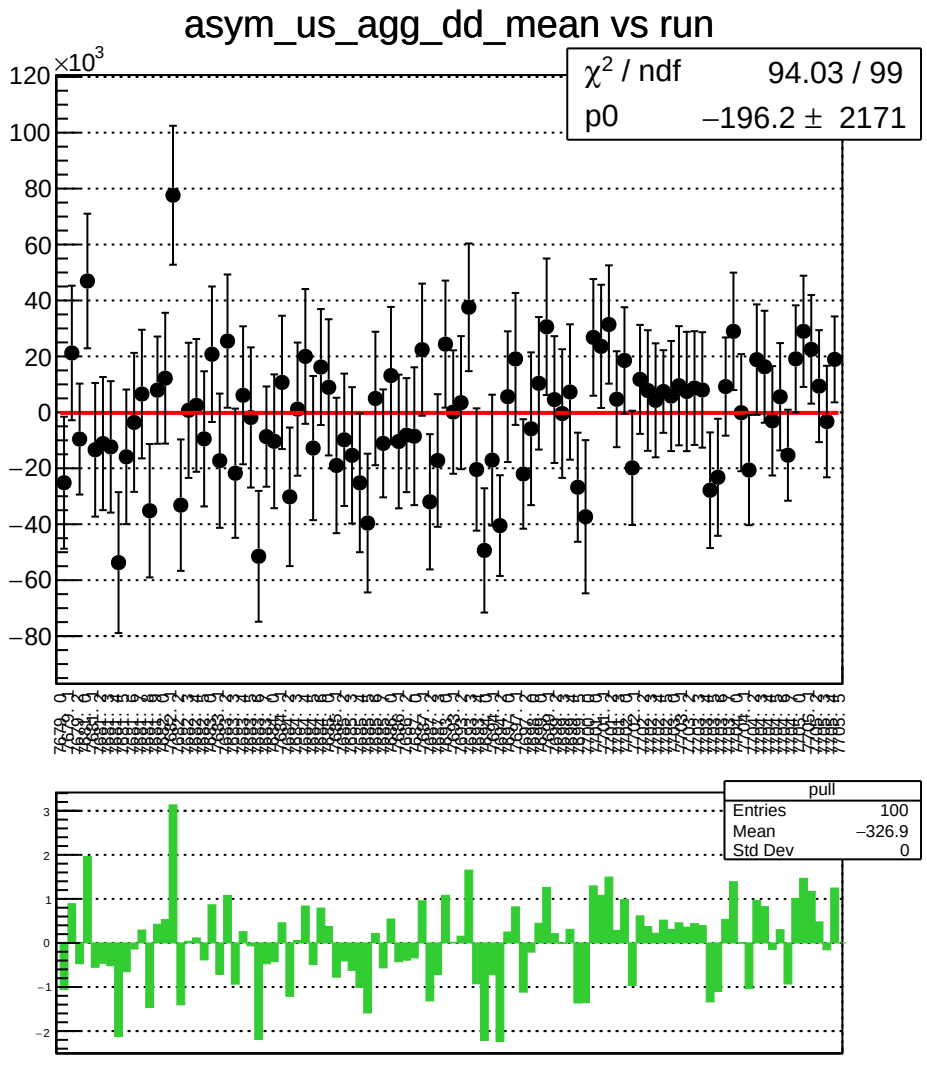

asym_dsr_mean vs run
χ² / ndf 85.5 / 99
p0 333.5 ± 390.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 100
Mean −270.8
Std Dev 0
2
1
0
−1
−2

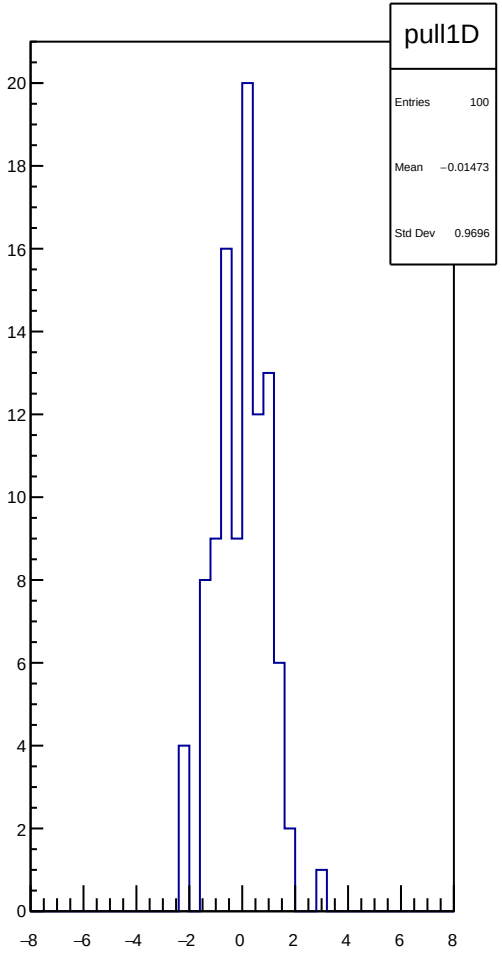

pull1D
Entries 100
Mean 0.006681
Std Dev 0.9246
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

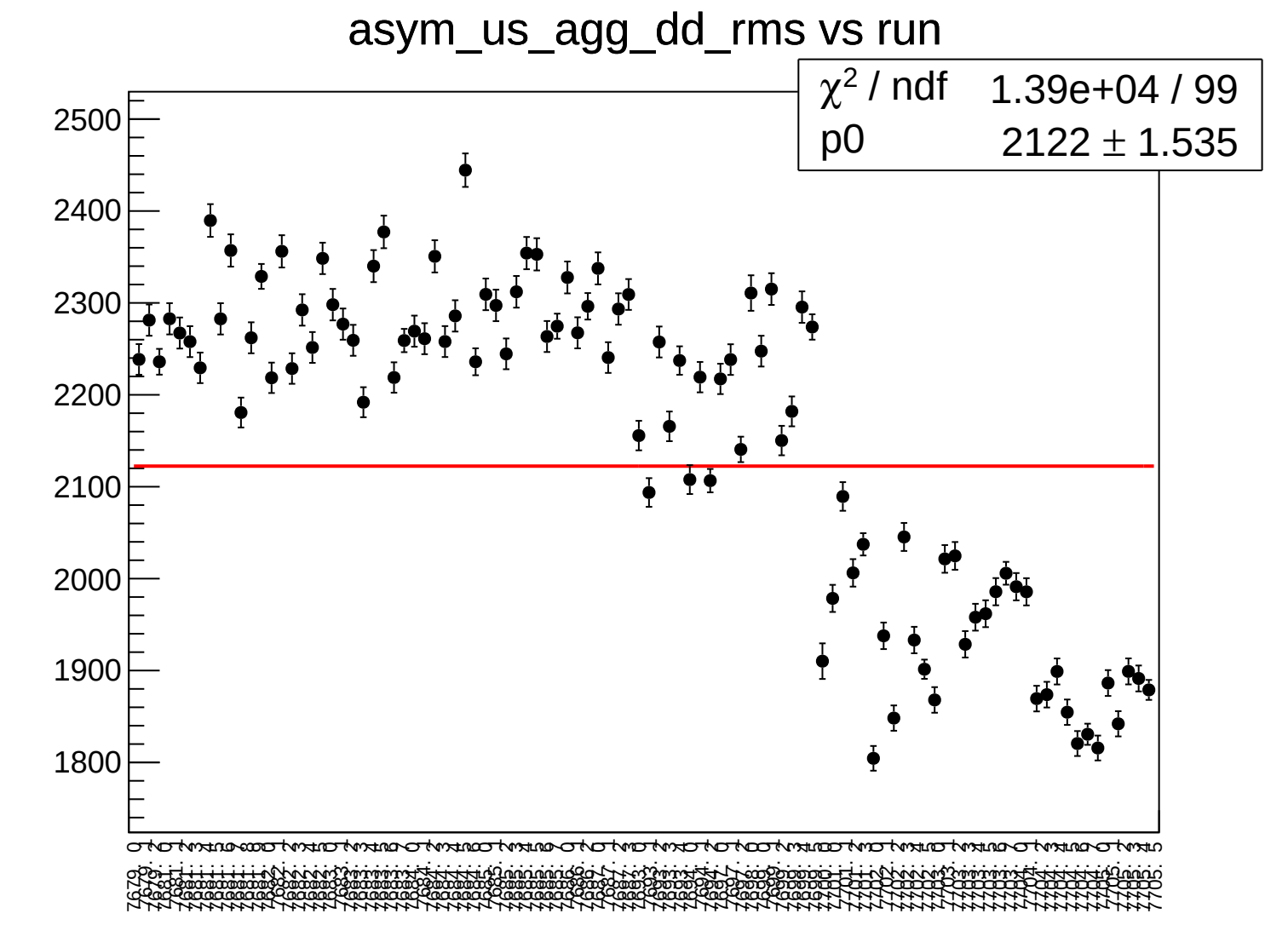

asym_dsr_rms vs run
χ² / ndf 312.3 / 99
p0 382.9 ± 0.276
400
395
390
385
380
375
370

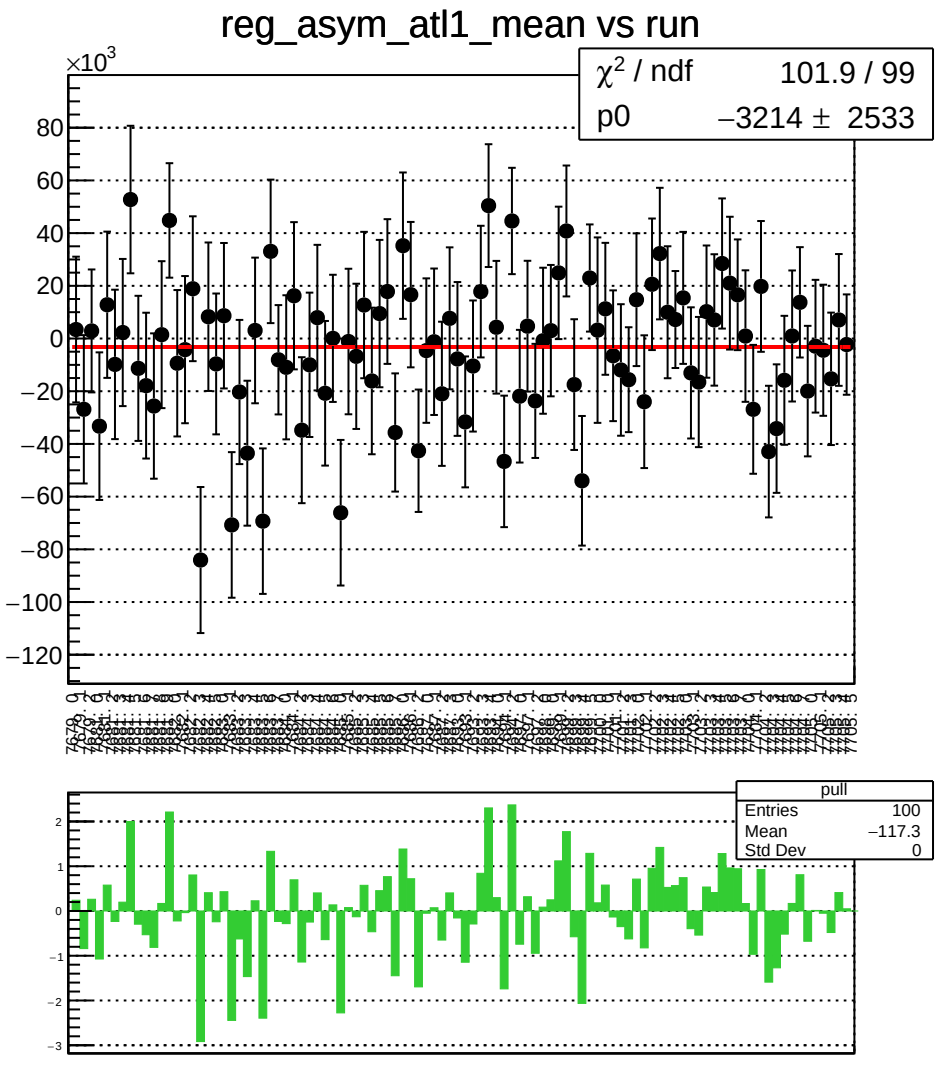

asym_us_agg_avg_mean vs run
χ² / ndf 86.41 / 99
p0 −4171 ± 1926
pull
Entries 100
Mean −615
Std Dev 0
pull1D
Entries 100
Mean 0.006049
Std Dev 0.9296

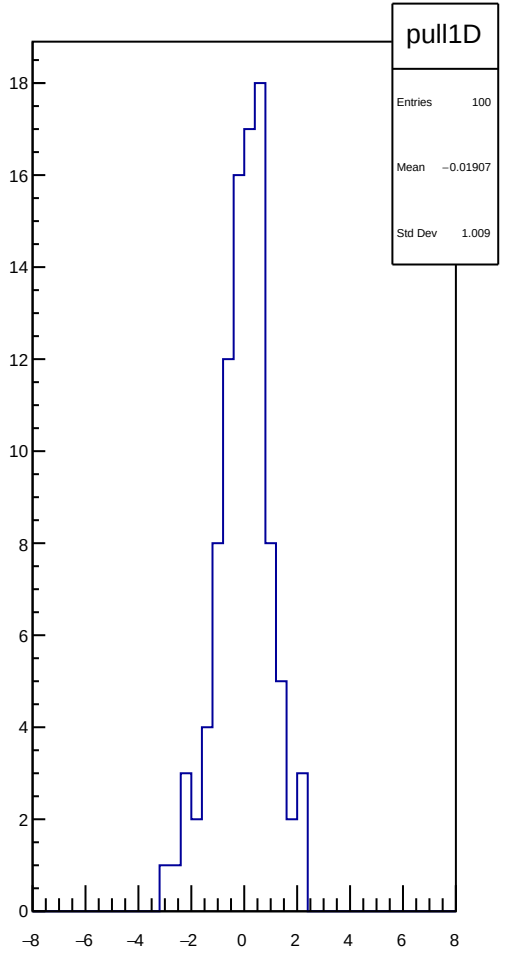

asym_us_agg_avg_rms vs run
χ² / ndf 1.328e+04 / 99
p0 1883 ± 1.362
2200
2100
2000
1900
1800
1700
1600

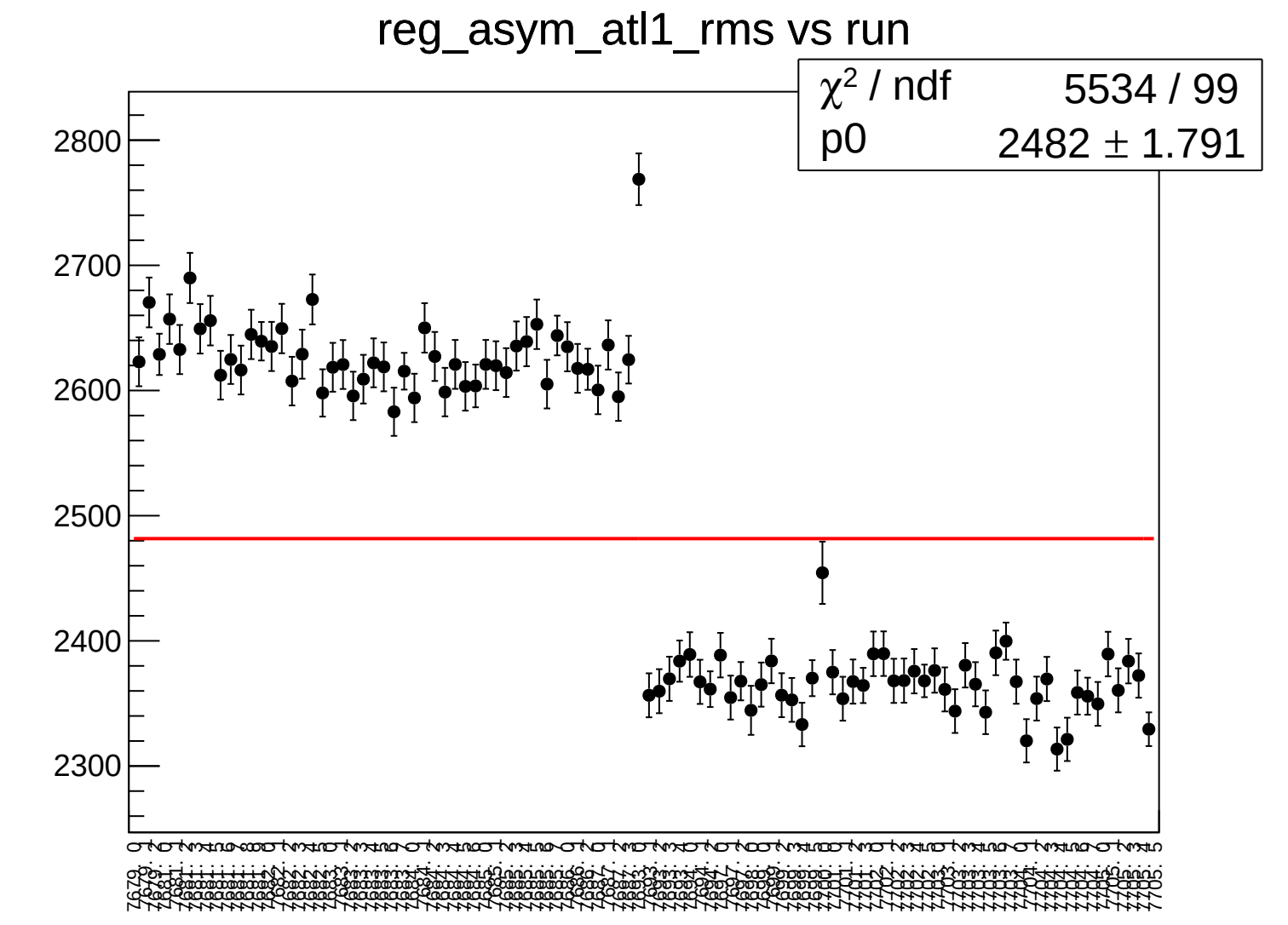

asym_us_agg_dd_mean vs run
χ² / ndf 94.03 / 99
p0 −196.2 ± 2171
×10³
pull
Entries 100
Mean −326.9
Std Dev 0

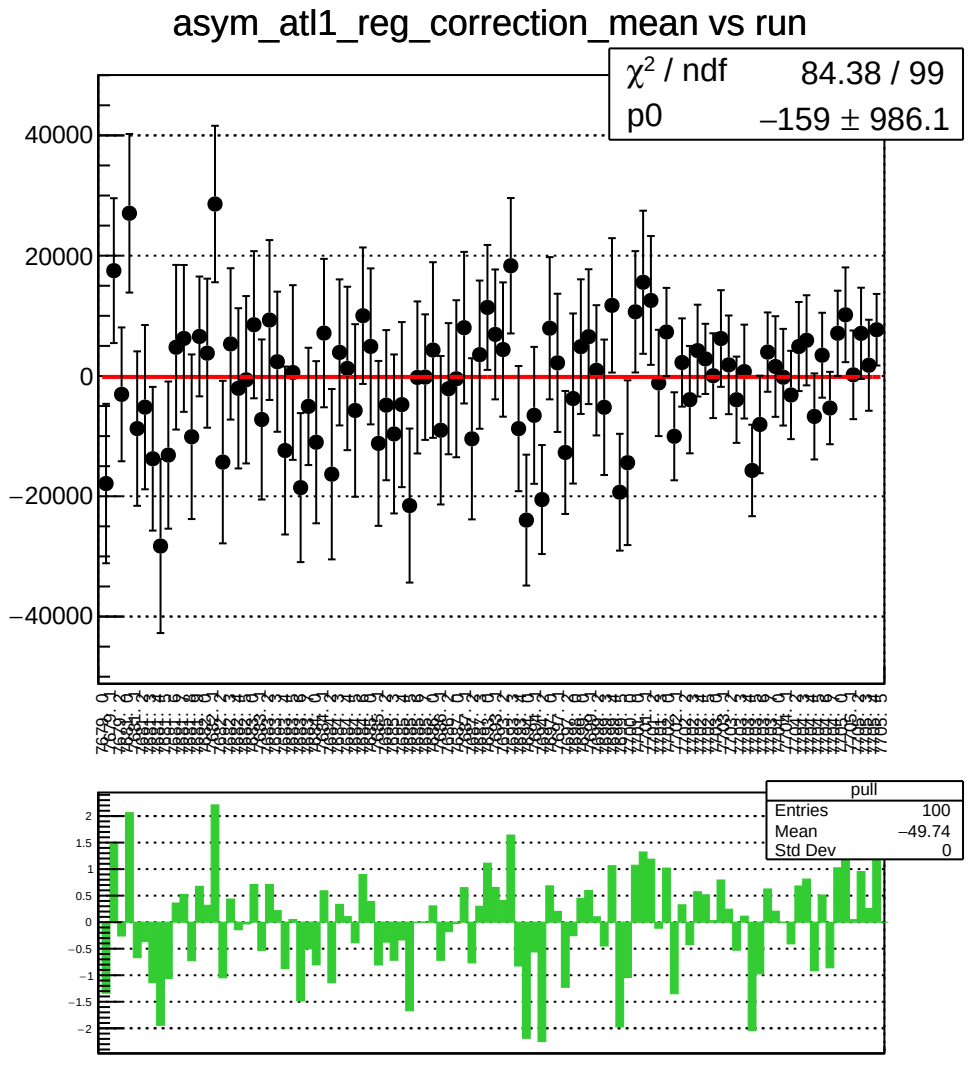

pull1D
Entries 100
Mean −0.01473
Std Dev 0.9696

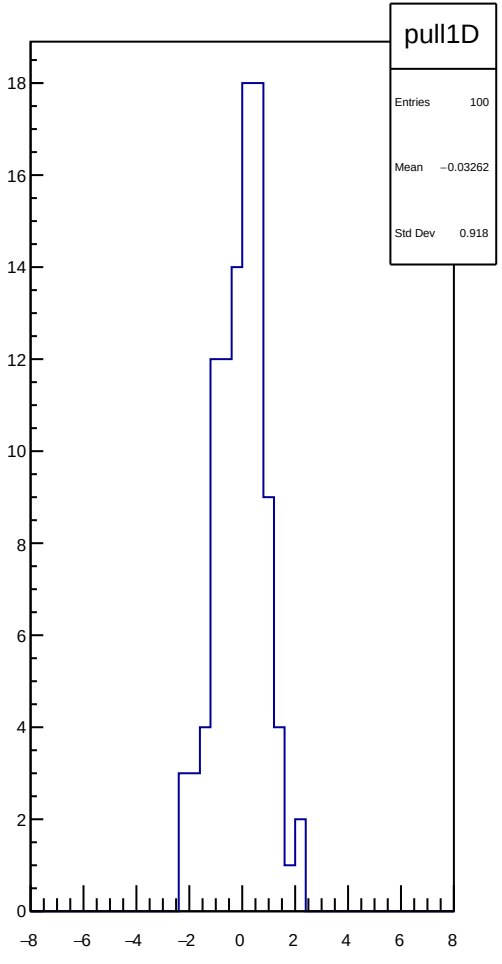

asym_us_agg_dd_rms vs run
χ^2 / ndf 1.39e+04 / 99
p0 2122 ± 1.535
2500
2400
2300
2200
2100
2000
1900
1800

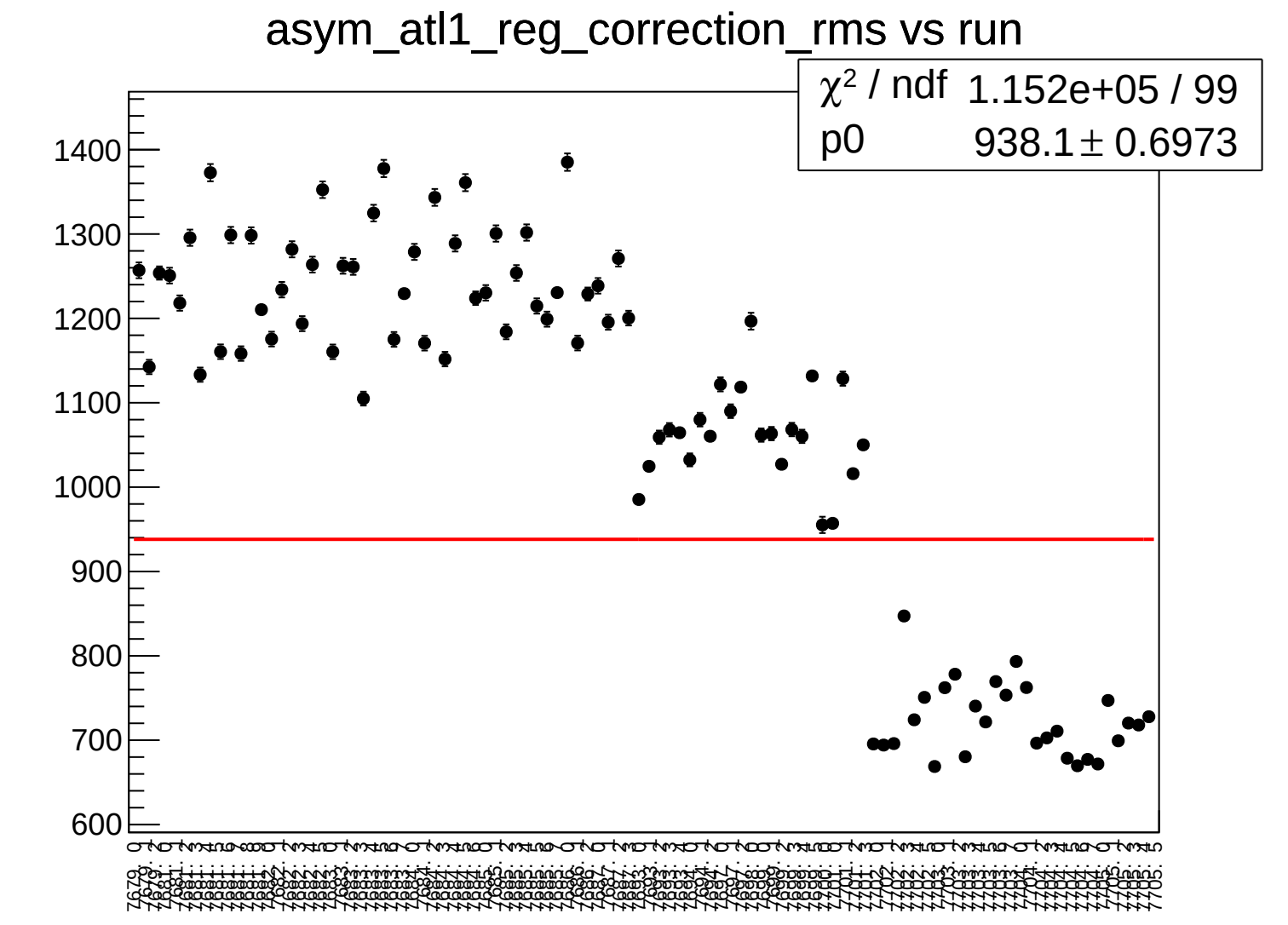

reg_asym_atl1_mean vs run
×10^3
χ^2 / ndf 101.9 / 99
p0 −3214 ± 2533
pull
Entries 100
Mean −117.3
Std Dev 0

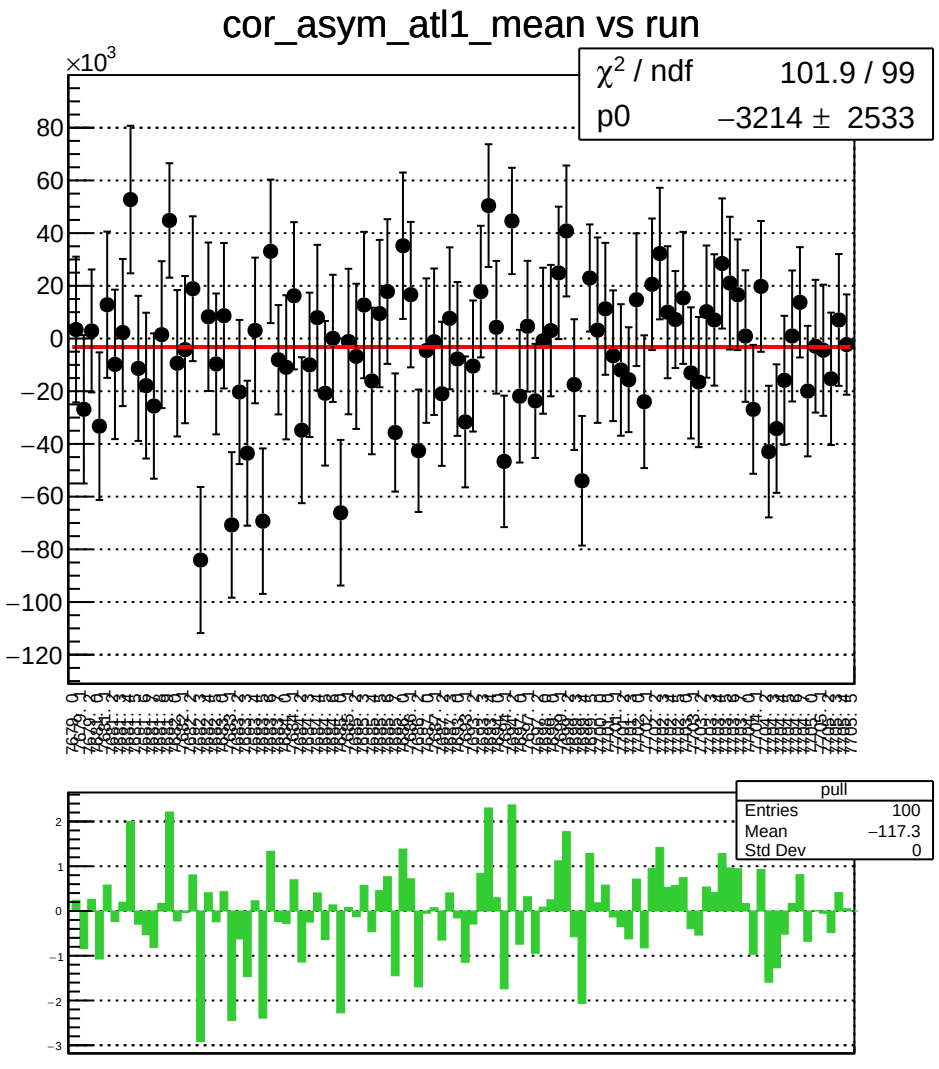

pull1D
Entries 100
Mean −0.01907
Std Dev 1.009

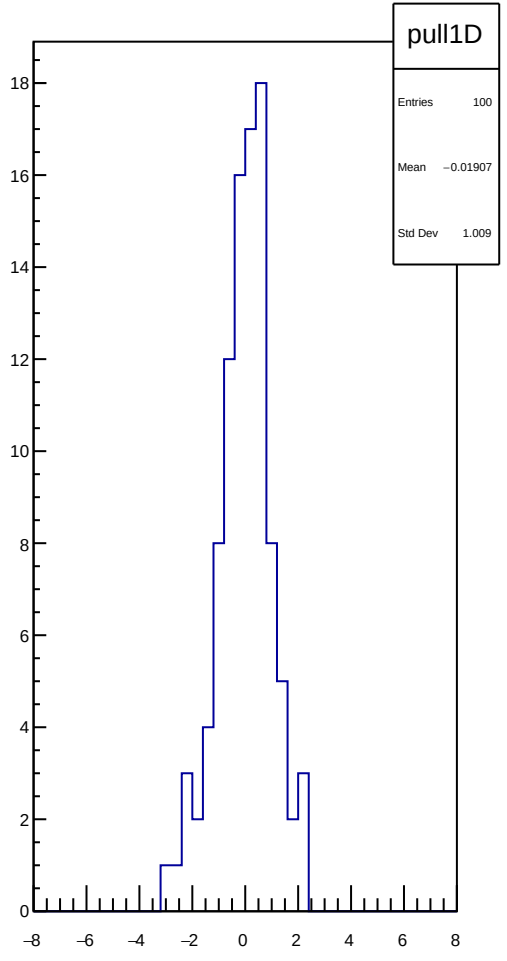

reg_asym_atl1_rms vs run
χ² / ndf 5534 / 99
p0 2482 ± 1.791
2800
2700
2600
2500
2400
2300

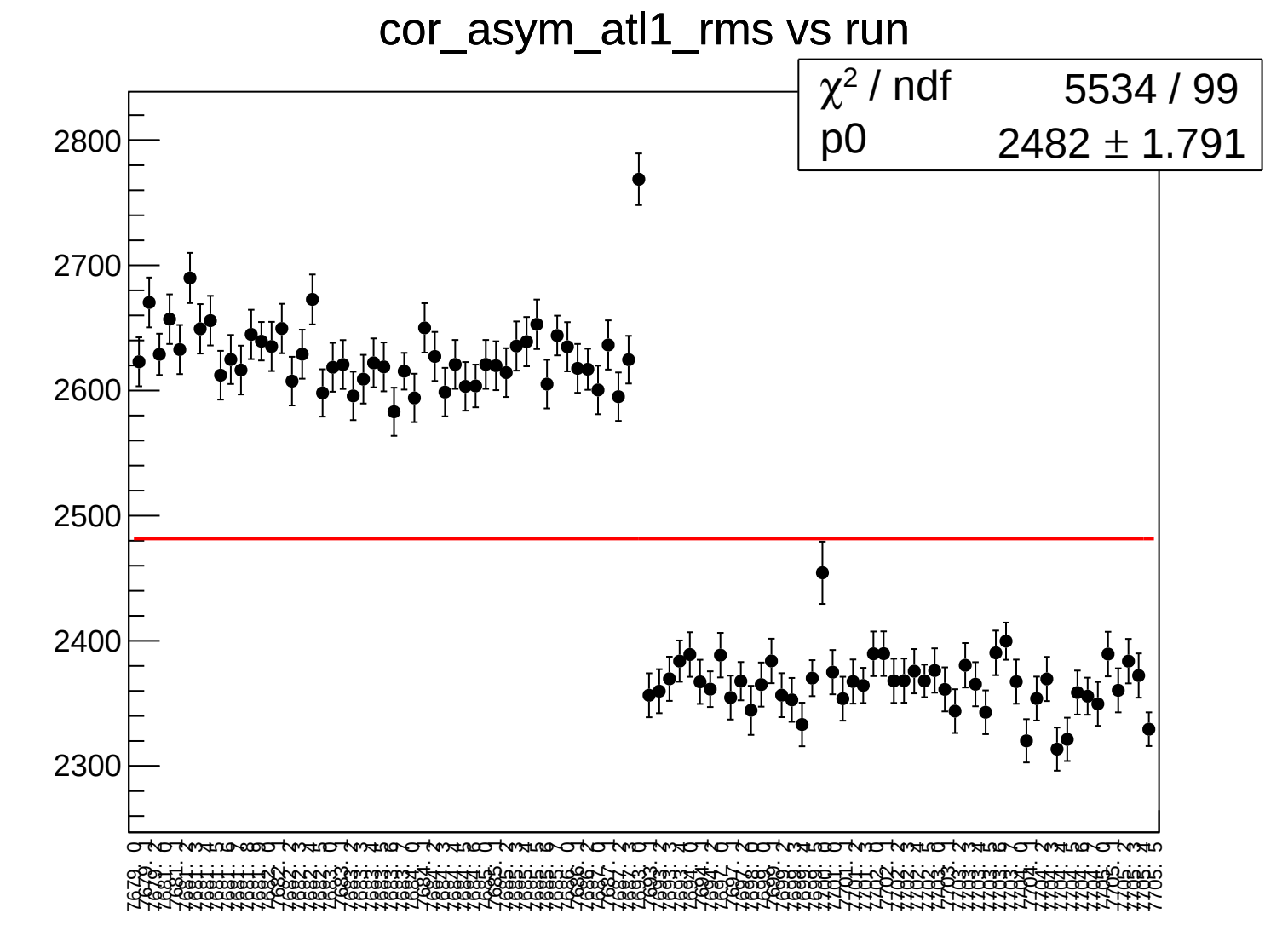

asym_atl1_reg_correction_mean vs run
χ² / ndf 84.38 / 99
p0 −159 ± 986.1
40000
20000
0
−20000
−40000
pull
Entries 100
Mean −49.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

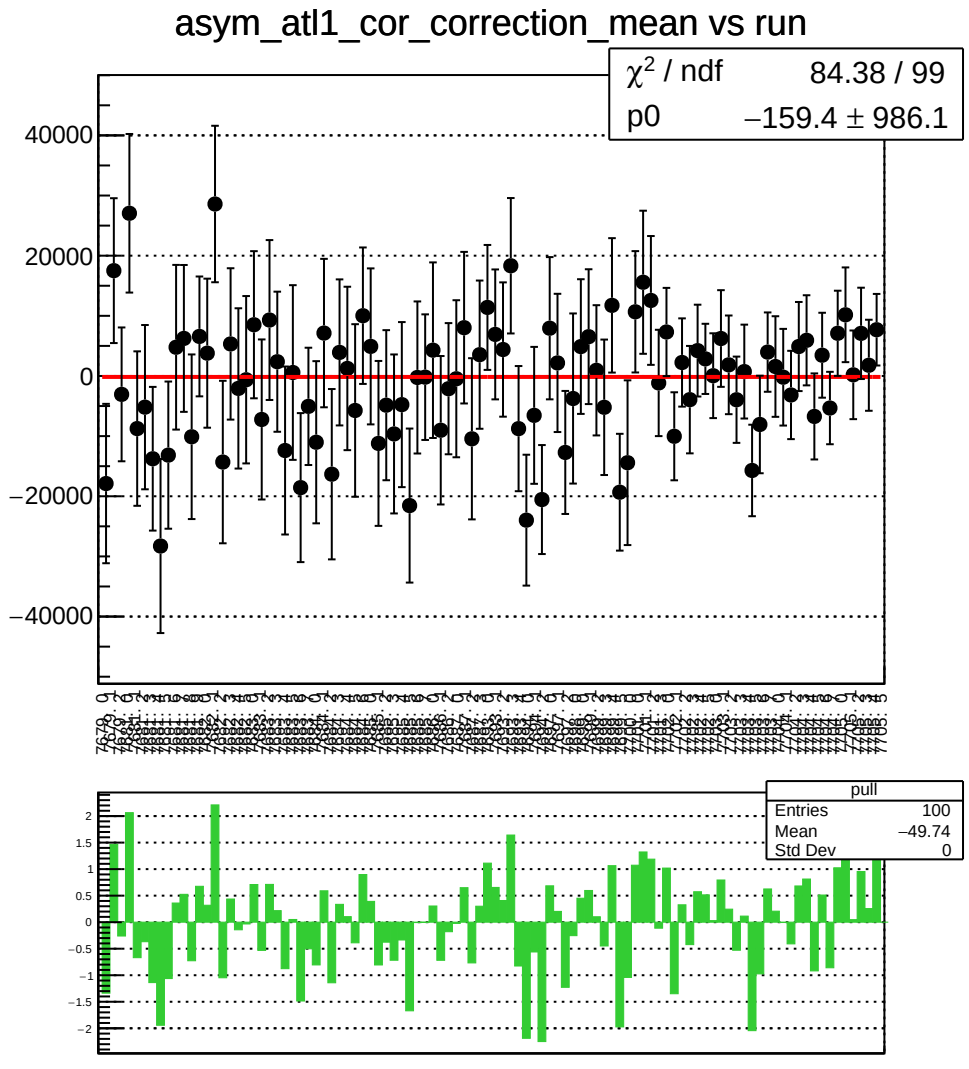

pull1D
Entries 100
Mean −0.03262
Std Dev 0.918
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

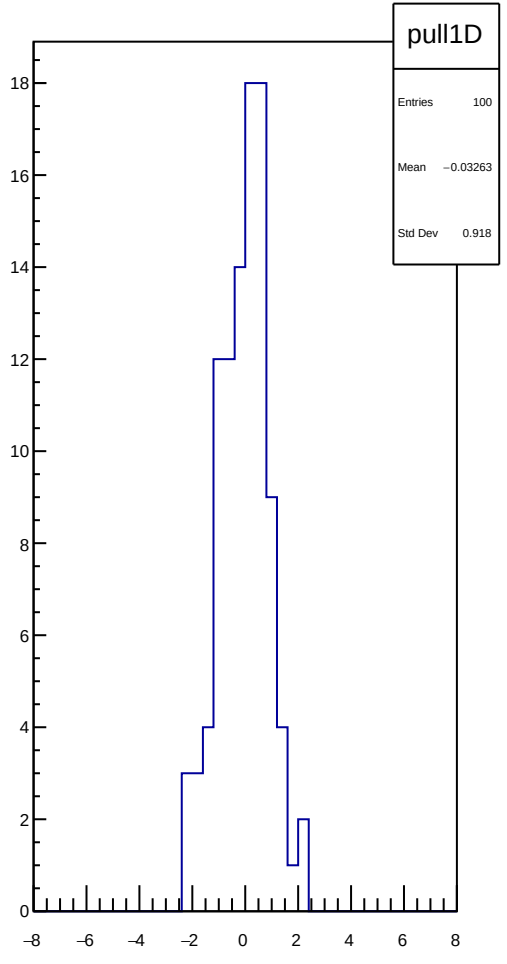

asym_atl1_reg_correction_rms vs run
χ² / ndf 1.152e+05 / 99
p0 938.1 ± 0.6973
1400
1300
1200
1100
1000
900
800
700
600

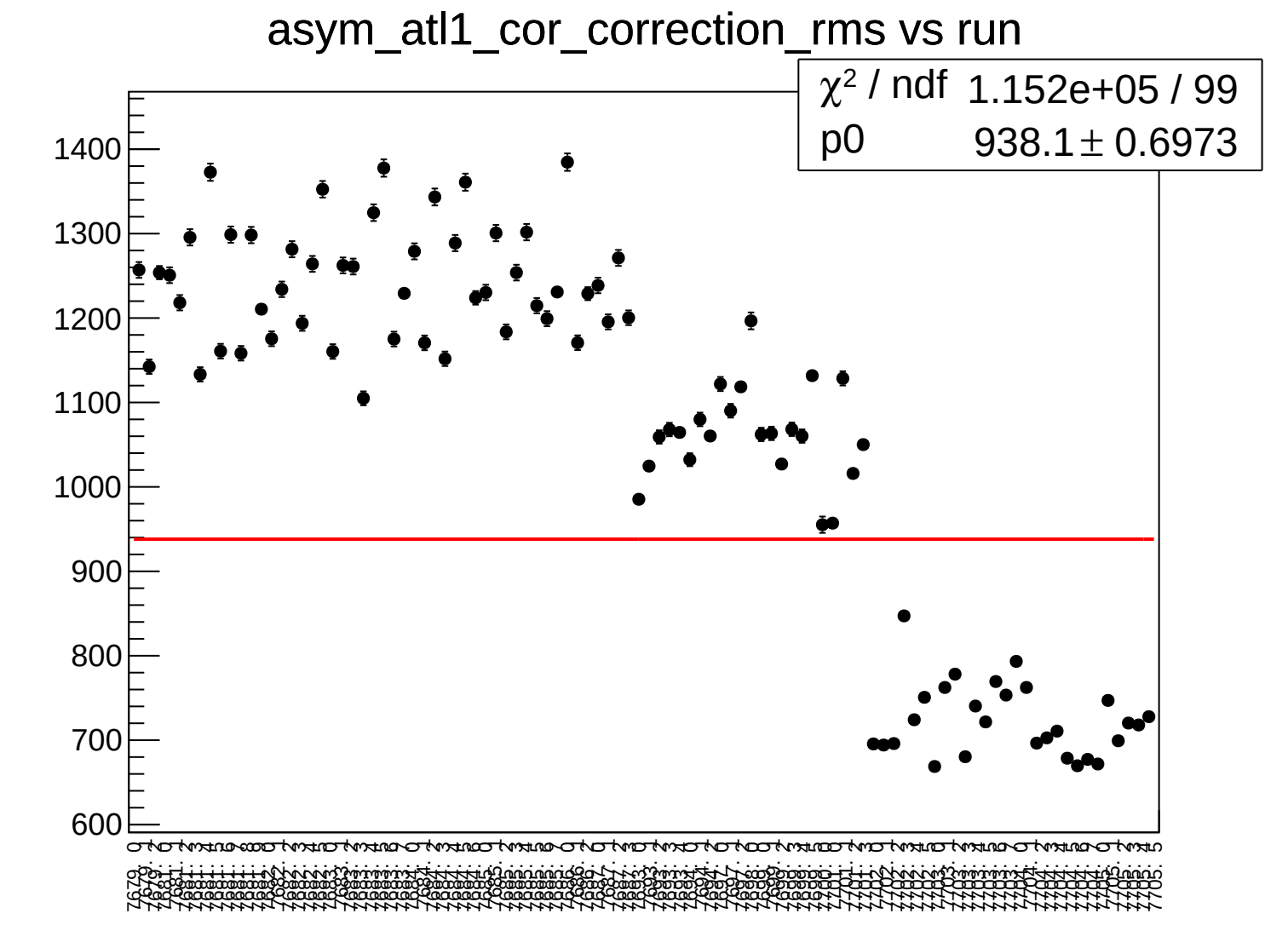

cor_asym_atl1_mean vs run
×10^3
χ^2 / ndf 101.9 / 99
p0 −3214 ± 2533
pull
Entries 100
Mean −117.3
Std Dev 0

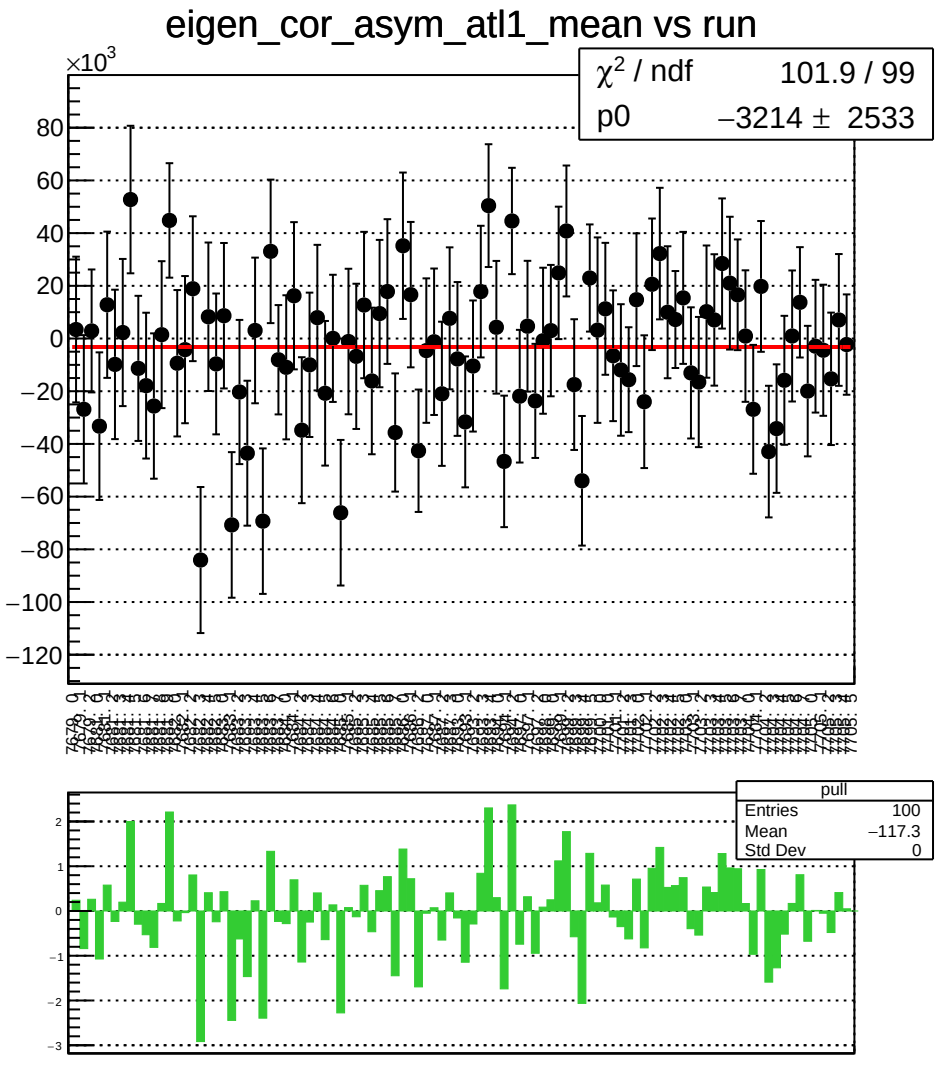

pull1D
Entries 100
Mean −0.01907
Std Dev 1.009

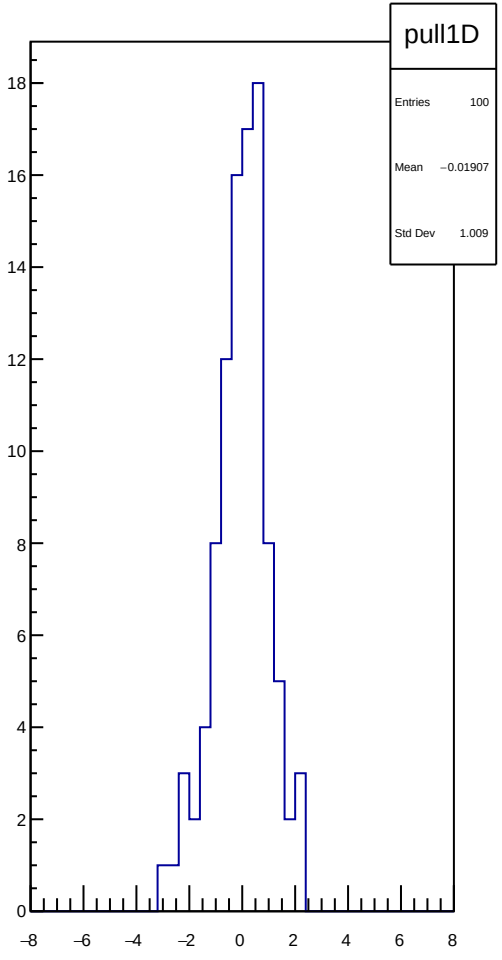

cor_asym_atl1_rms vs run
χ² / ndf 5534 / 99
p0 2482 ± 1.791
2800
2700
2600
2500
2400
2300

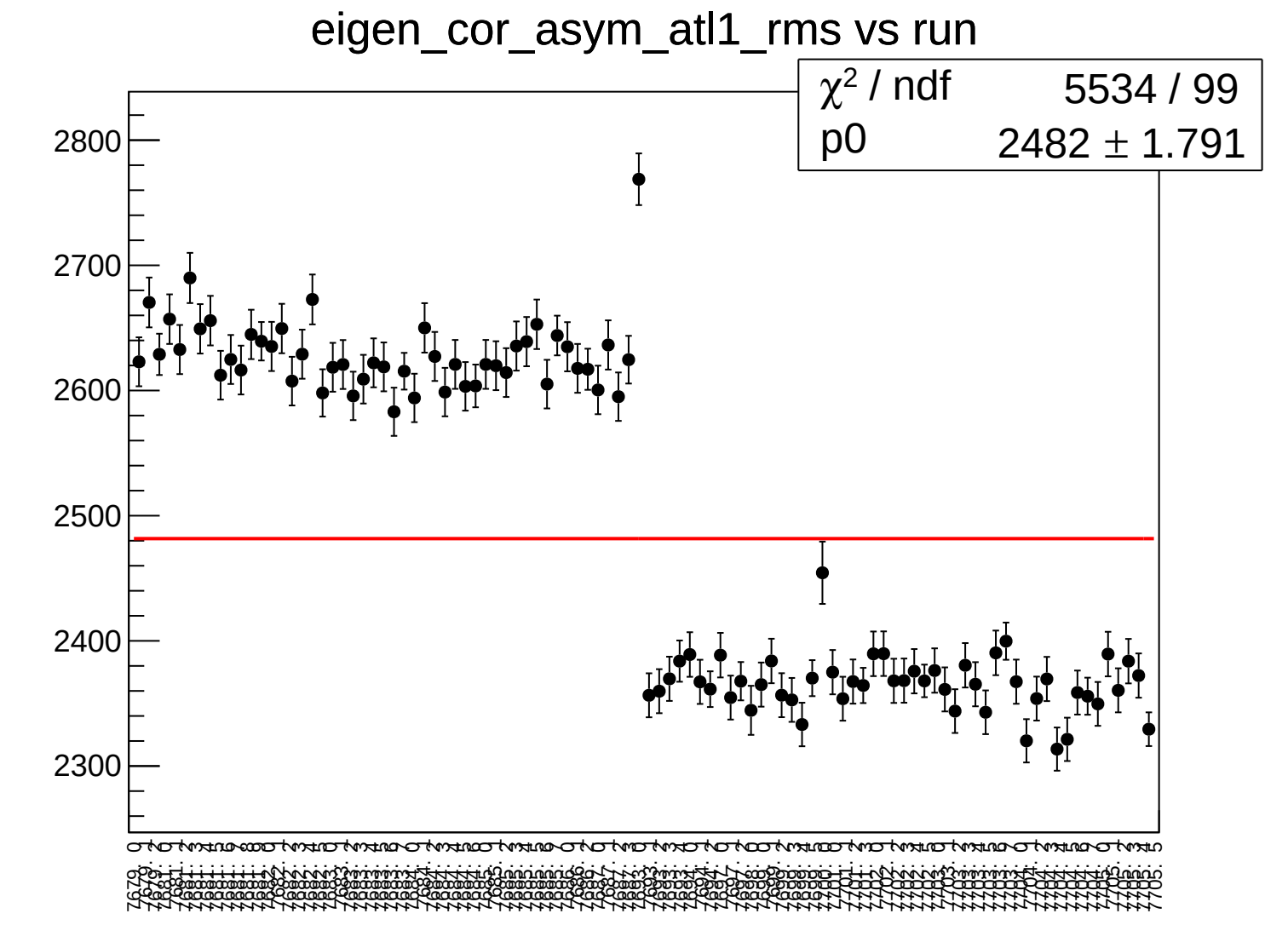

asym_atl1_cor_correction_mean vs run
χ² / ndf 84.38 / 99
p0 −159.4 ± 986.1
40000
20000
0
−20000
−40000
pull
Entries 100
Mean −49.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

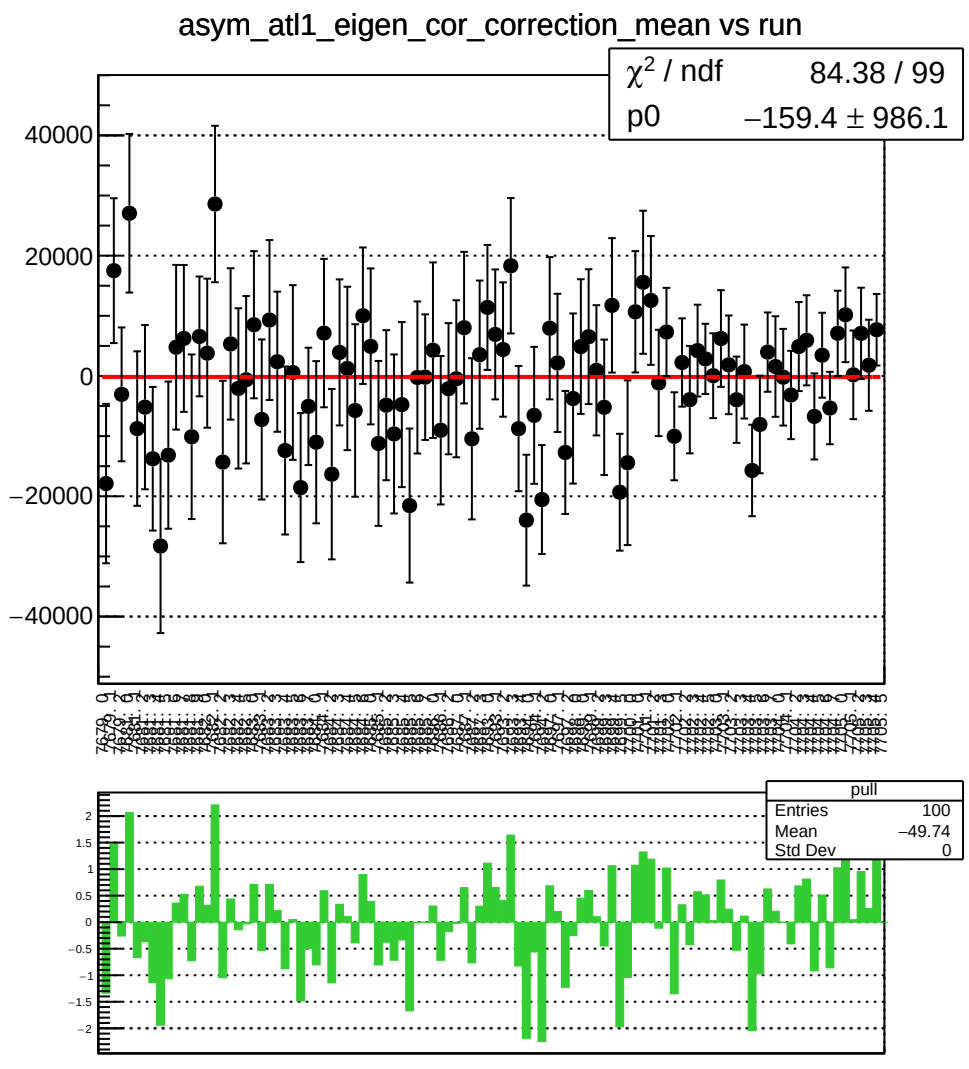

pull1D
Entries 100
Mean −0.03263
Std Dev 0.918
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

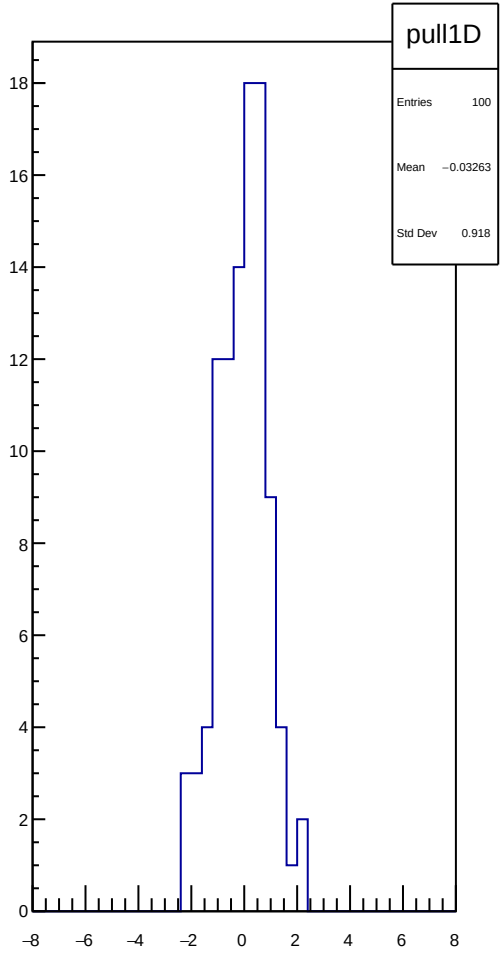

asym_atl1_cor_correction_rms vs run
χ² / ndf 1.152e+05 / 99
p0 938.1 ± 0.6973
1400
1300
1200
1100
1000
900
800
700
600

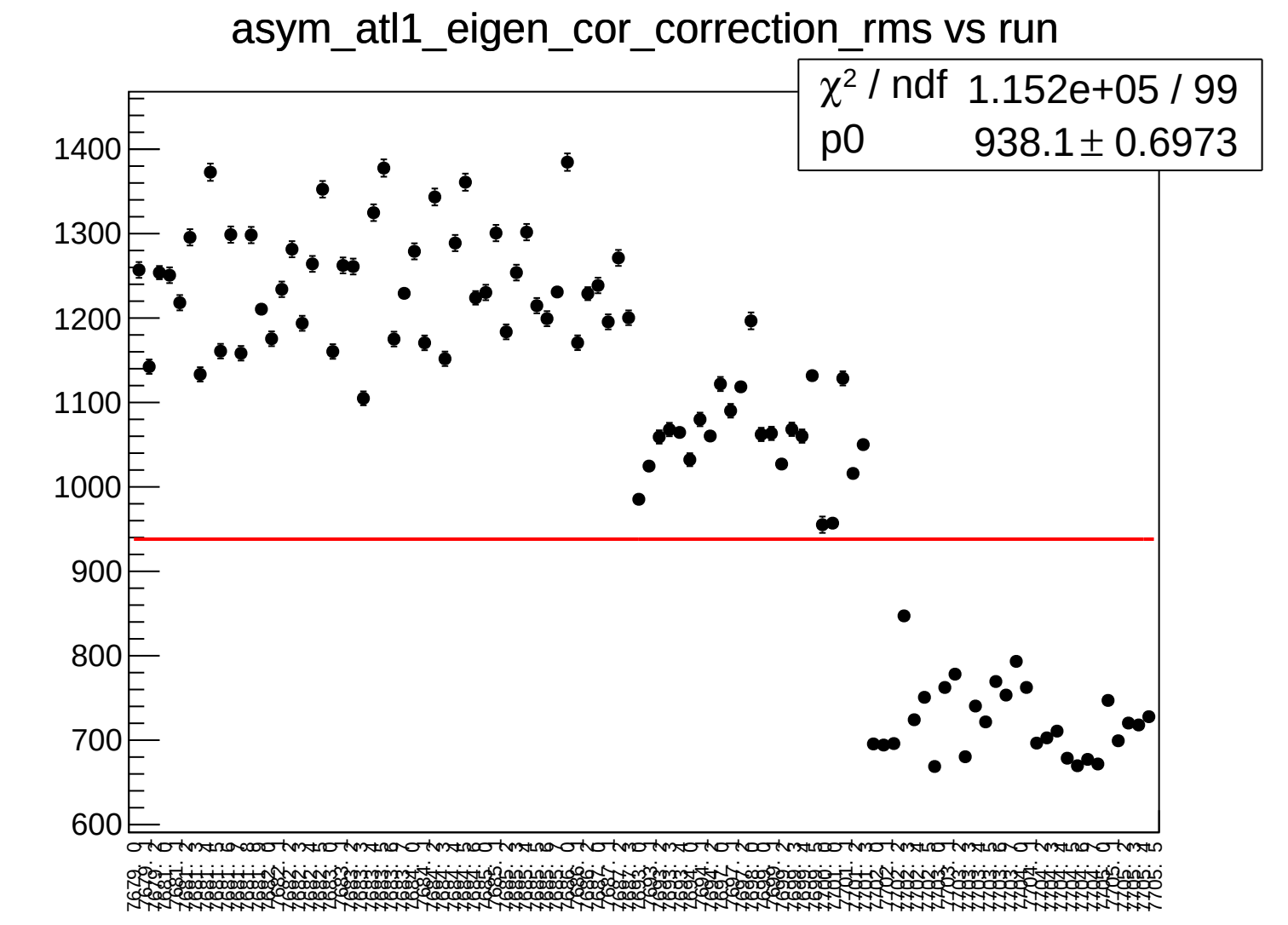

eigen_cor_asym_atl1_mean vs run
×10^3
χ² / ndf 101.9 / 99
p0 −3214 ± 2533
pull
Entries 100
Mean −117.3
Std Dev 0

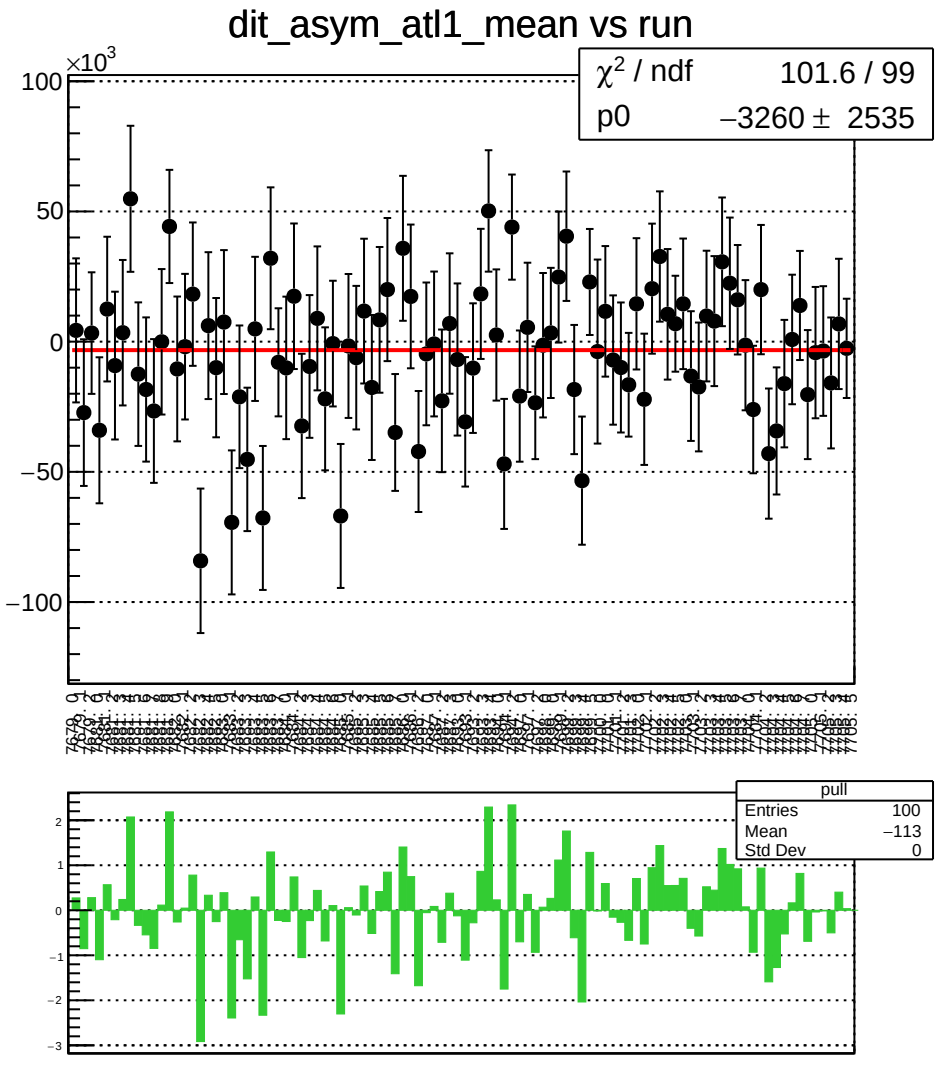

pull1D
Entries 100
Mean −0.01907
Std Dev 1.009

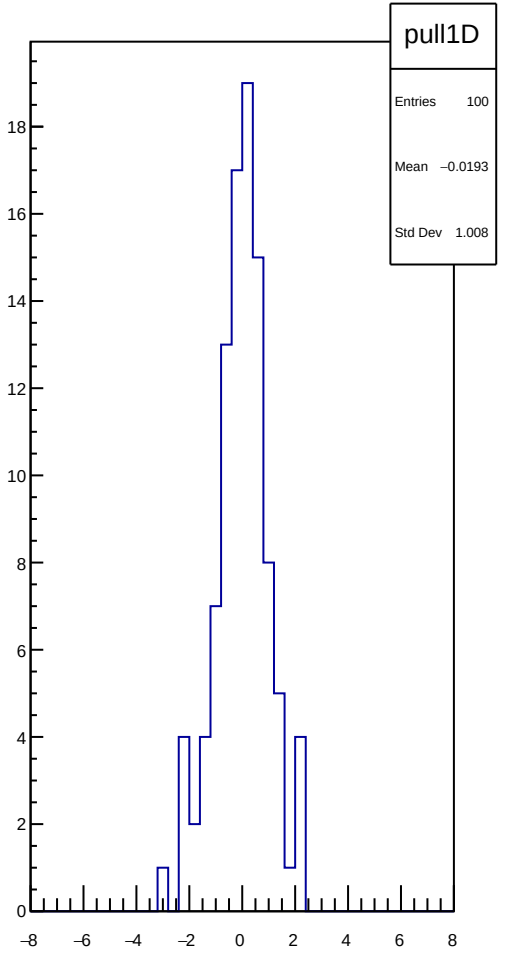

eigen_cor_asym_atl1_rms vs run
χ² / ndf 5534 / 99
p0 2482 ± 1.791
2800
2700
2600
2500
2400
2300

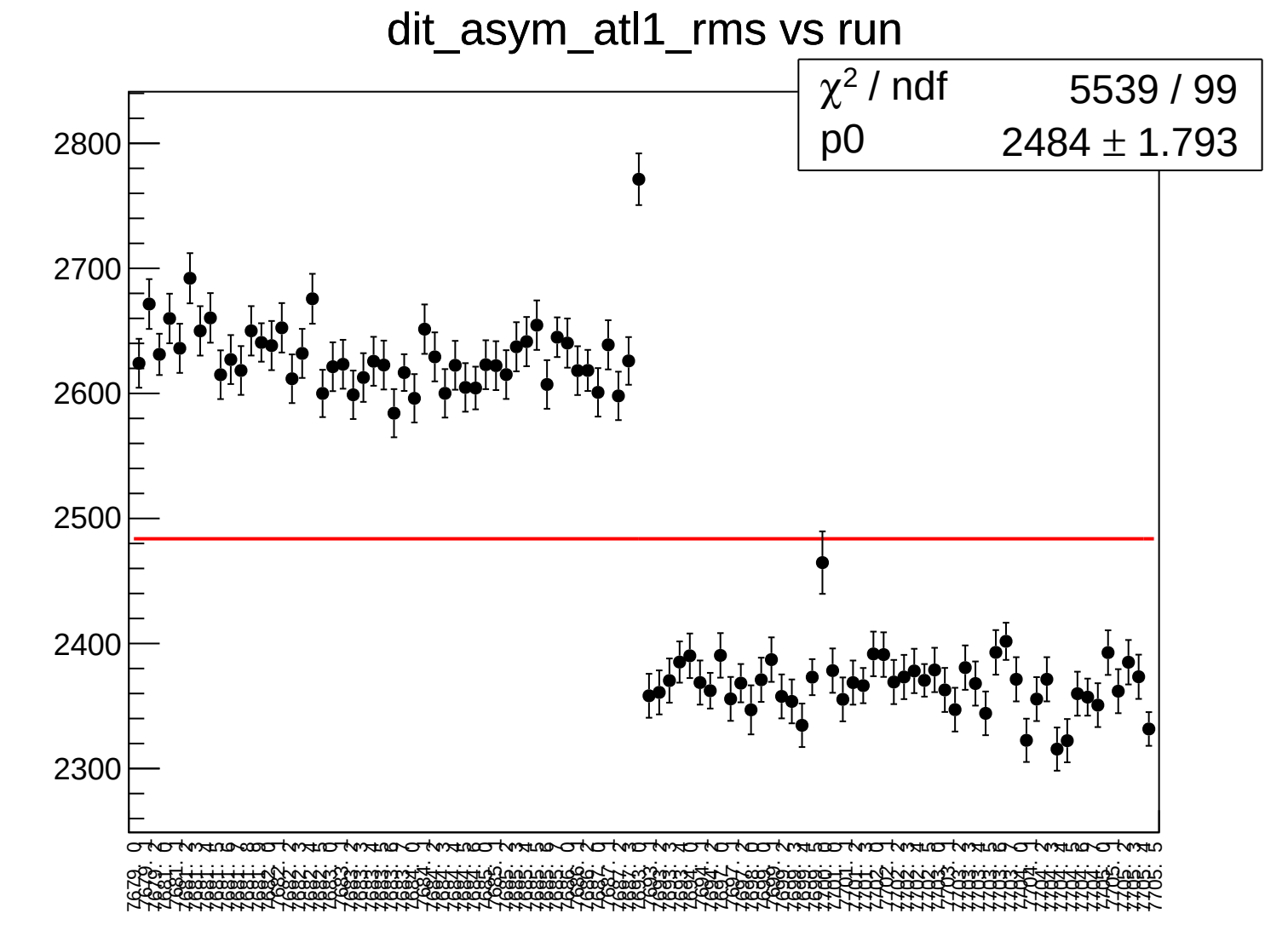

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 84.38 / 99
p0 −159.4 ± 986.1
40000
20000
0
−20000
−40000
pull
Entries 100
Mean −49.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

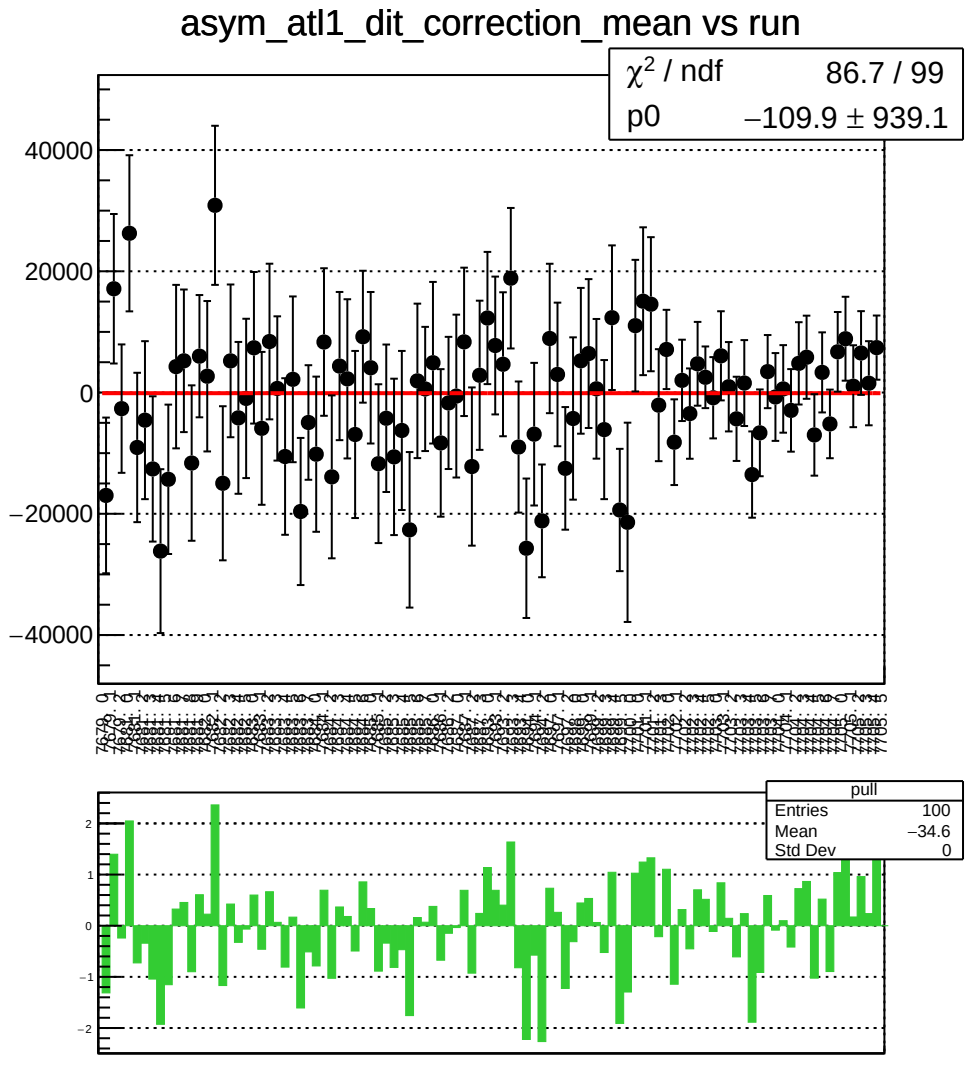

pull1D
Entries 100
Mean −0.03263
Std Dev 0.918
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

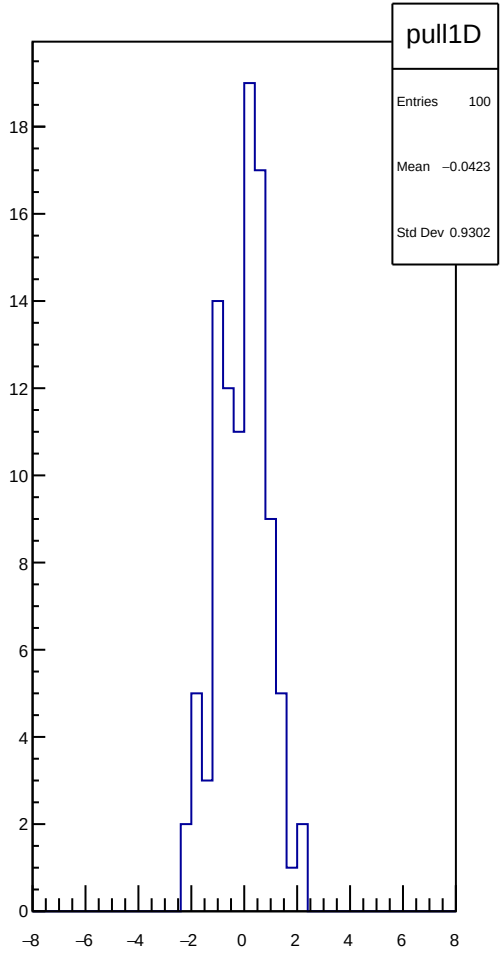

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 1.152e+05 / 99
p0 938.1 ± 0.6973
1400
1300
1200
1100
1000
900
800
700
600

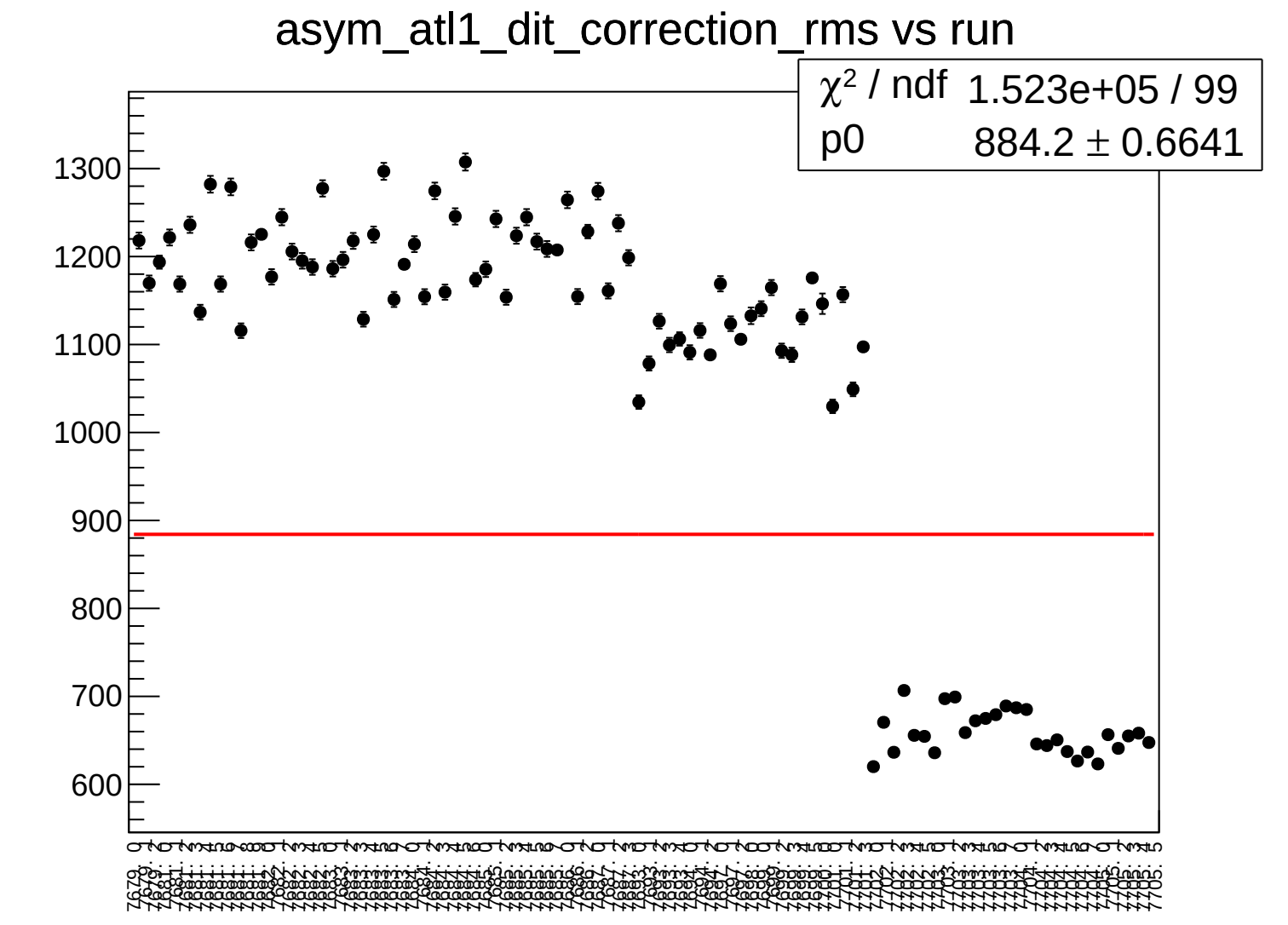

dit_asym_atl1_mean vs run
χ^2 / ndf 101.6 / 99
p0 −3260 ± 2535
×10^3
100
50
0
−50
−100
pull
Entries 100
Mean −113
Std Dev 0
2
1
0
−1
−2
−3

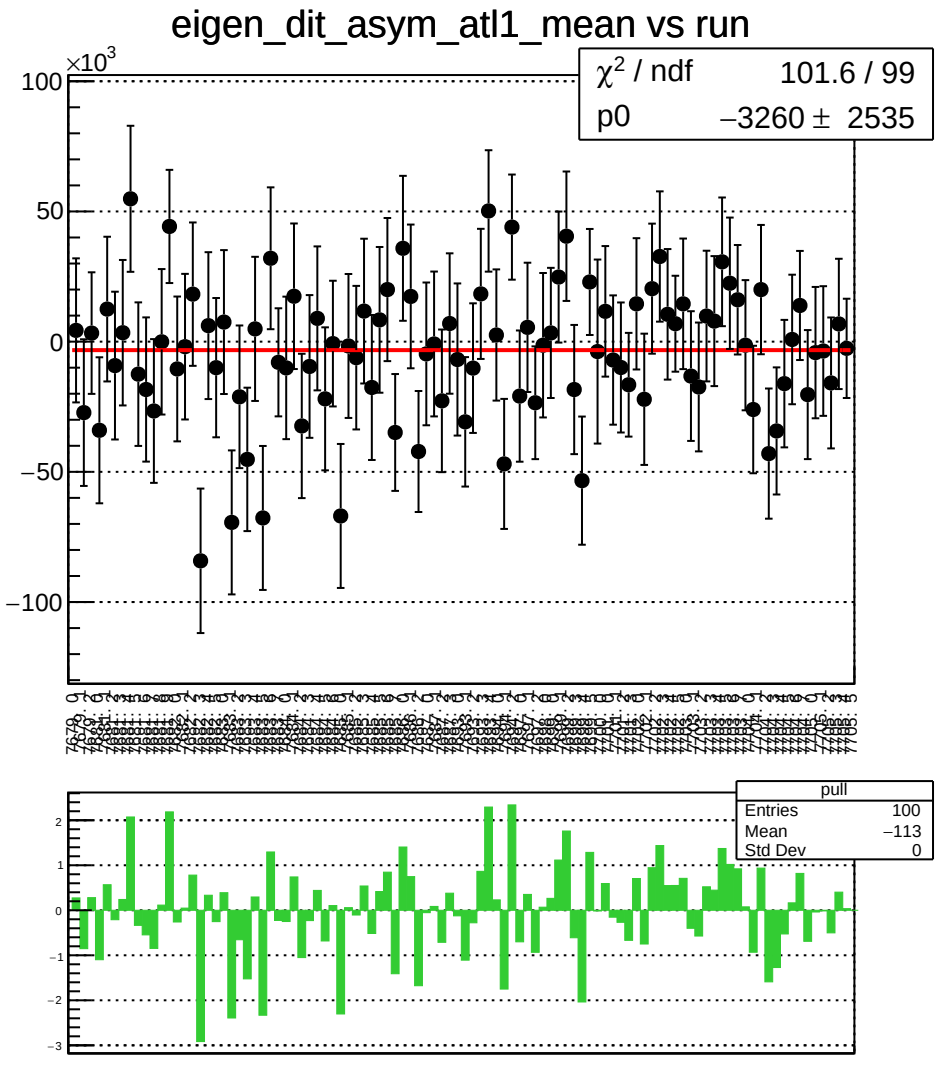

pull1D
Entries 100
Mean −0.0193
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

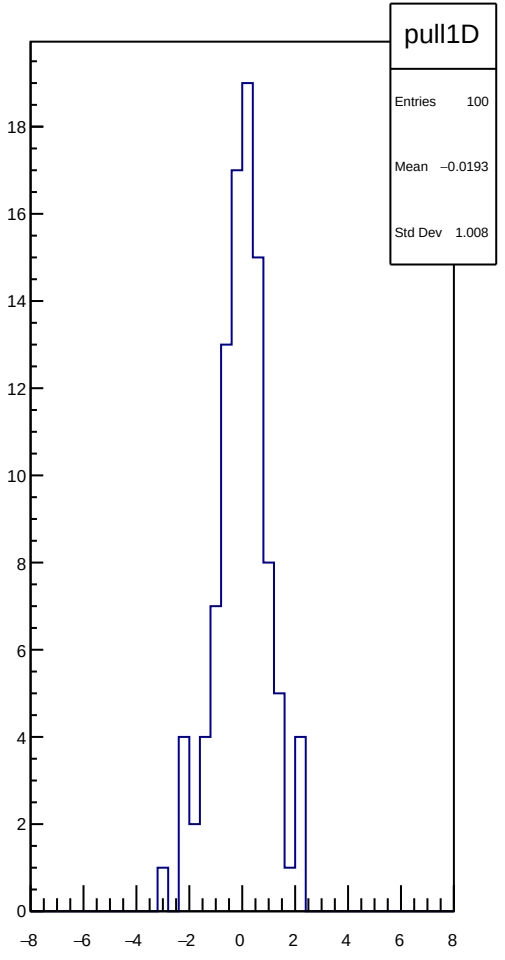

dit_asym_atl1_rms vs run
χ² / ndf 5539 / 99
p0 2484 ± 1.793
2800
2700
2600
2500
2400
2300

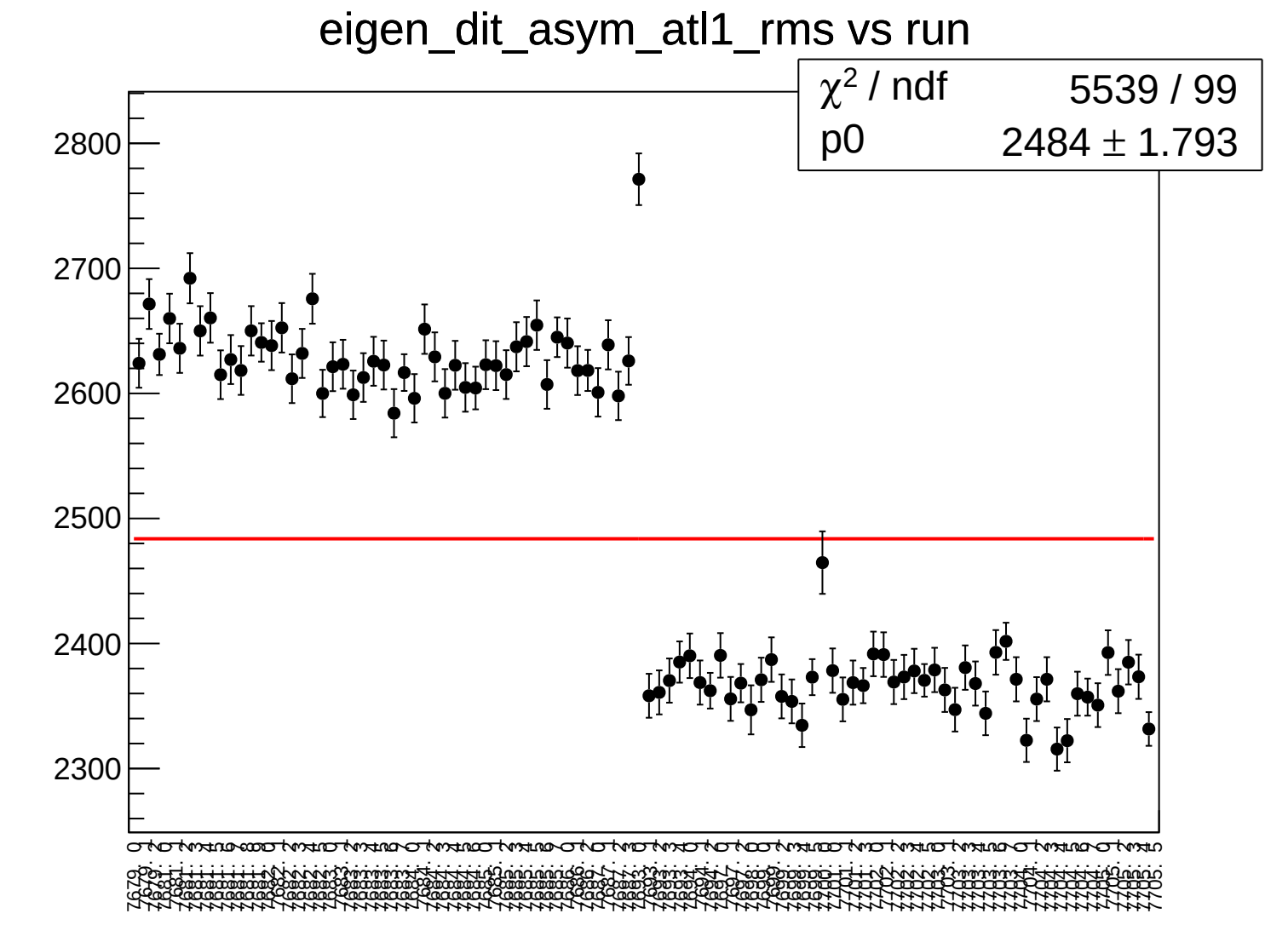

asym_atl1_dit_correction_mean vs run
χ² / ndf 86.7 / 99
p0 −109.9 ± 939.1
40000
20000
0
−20000
−40000
pull
Entries 100
Mean −34.6
Std Dev 0
2
1
0
−1
−2

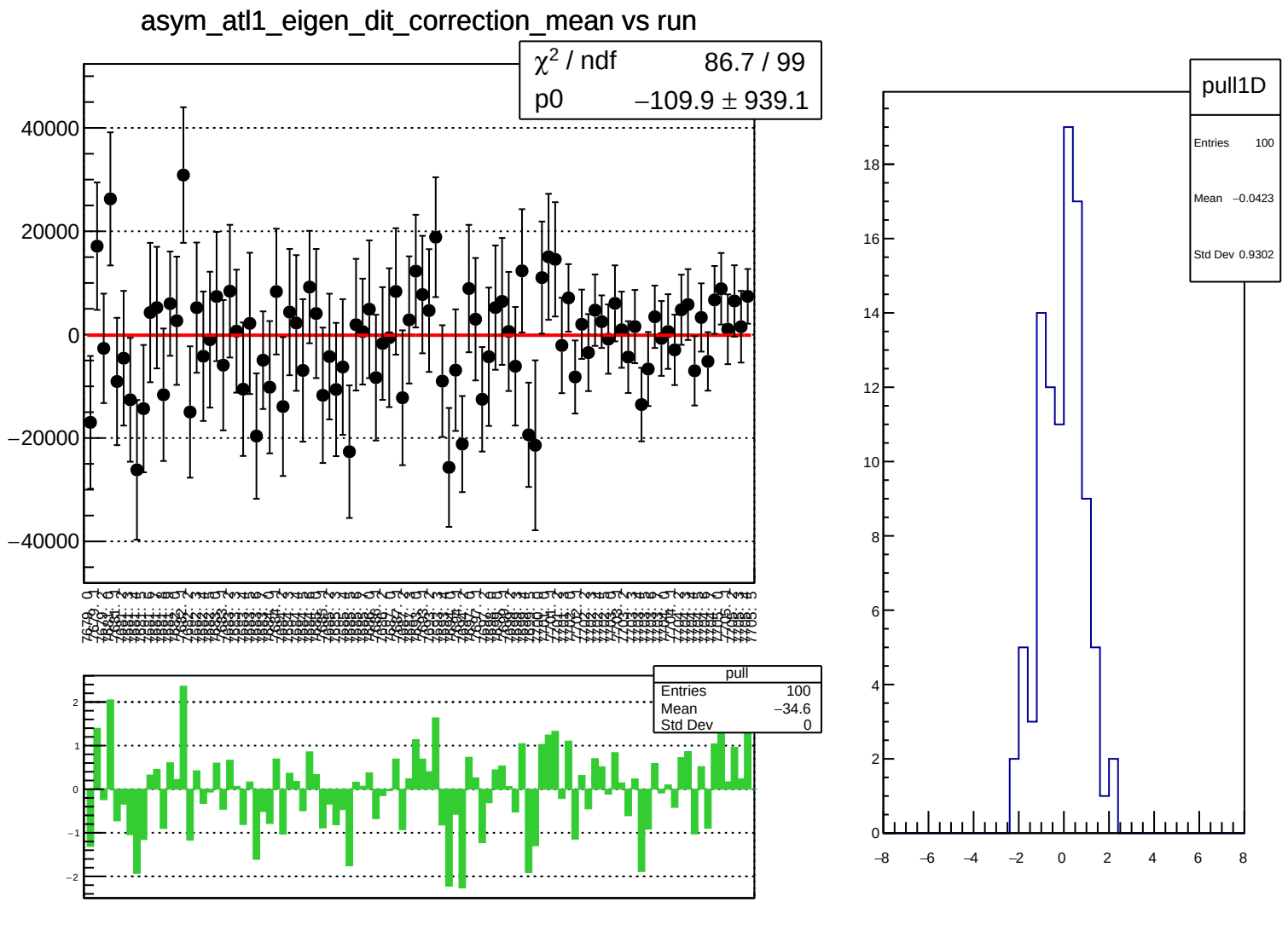

pull1D
Entries 100
Mean −0.0423
Std Dev 0.9302
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

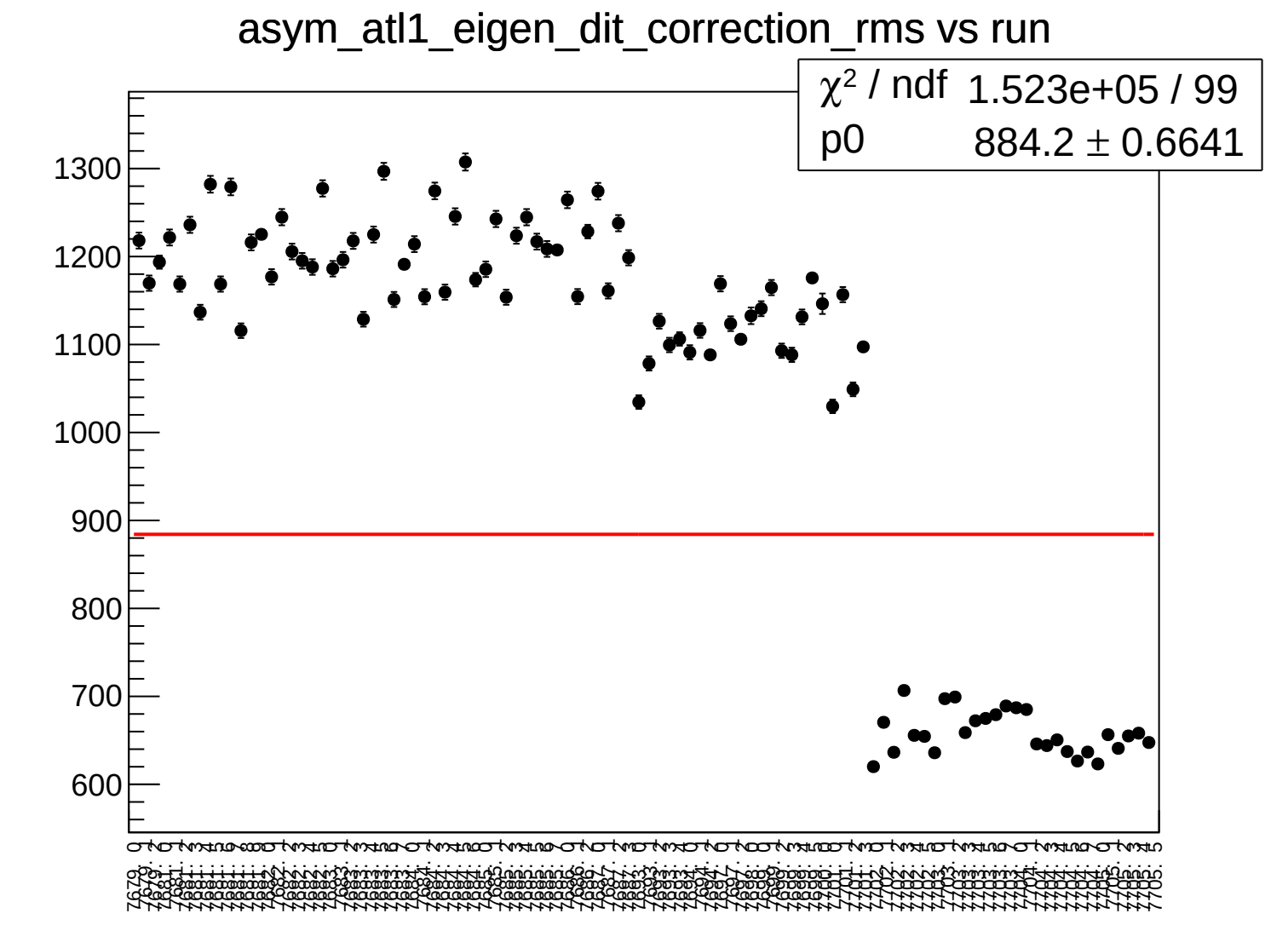

asym_atl1_dit_correction_rms vs run
χ² / ndf 1.523e+05 / 99
p0 884.2 ± 0.6641
1300
1200
1100
1000
900
800
700
600

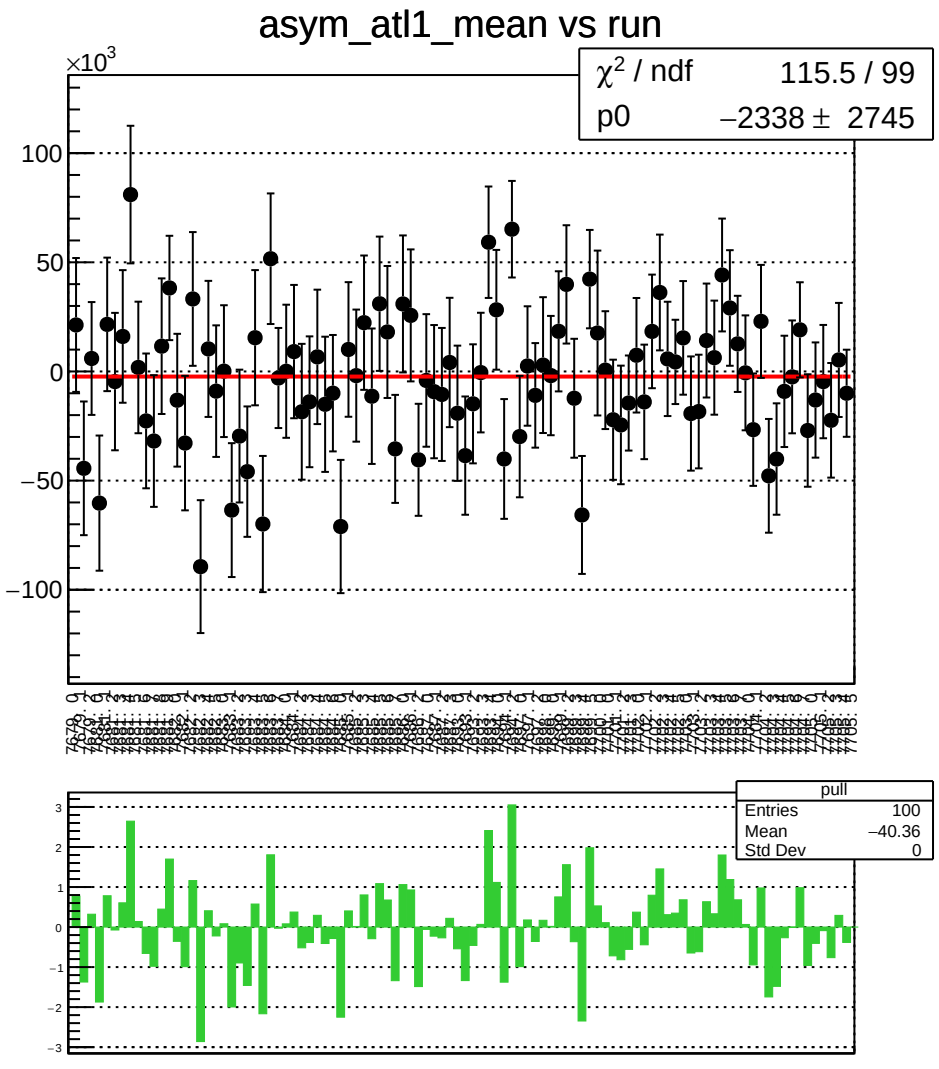

eigen_dit_asym_atl1_mean vs run
χ^2 / ndf 101.6 / 99
p0 −3260 ± 2535
×10^3
100
50
0
−50
−100
pull
Entries 100
Mean −113
Std Dev 0
2
1
0
−1
−2
−3

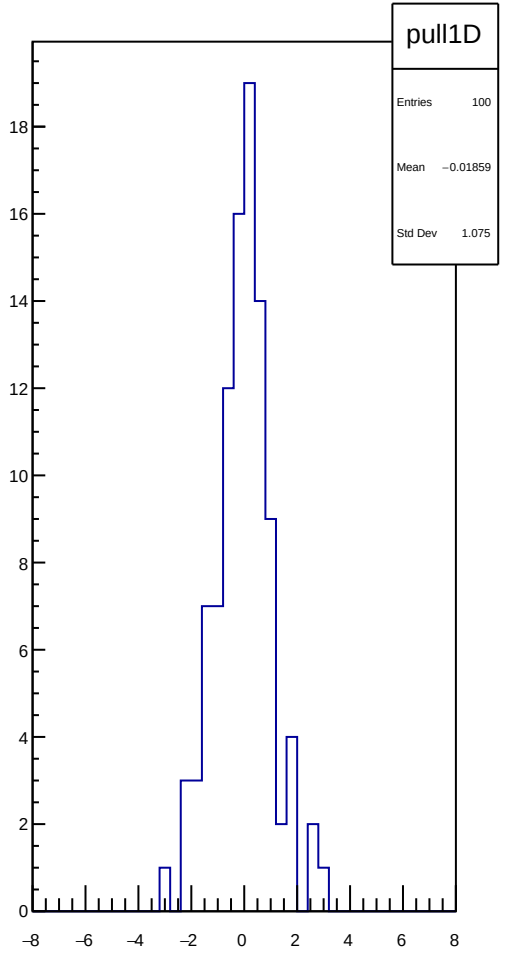

pull1D
Entries 100
Mean −0.0193
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

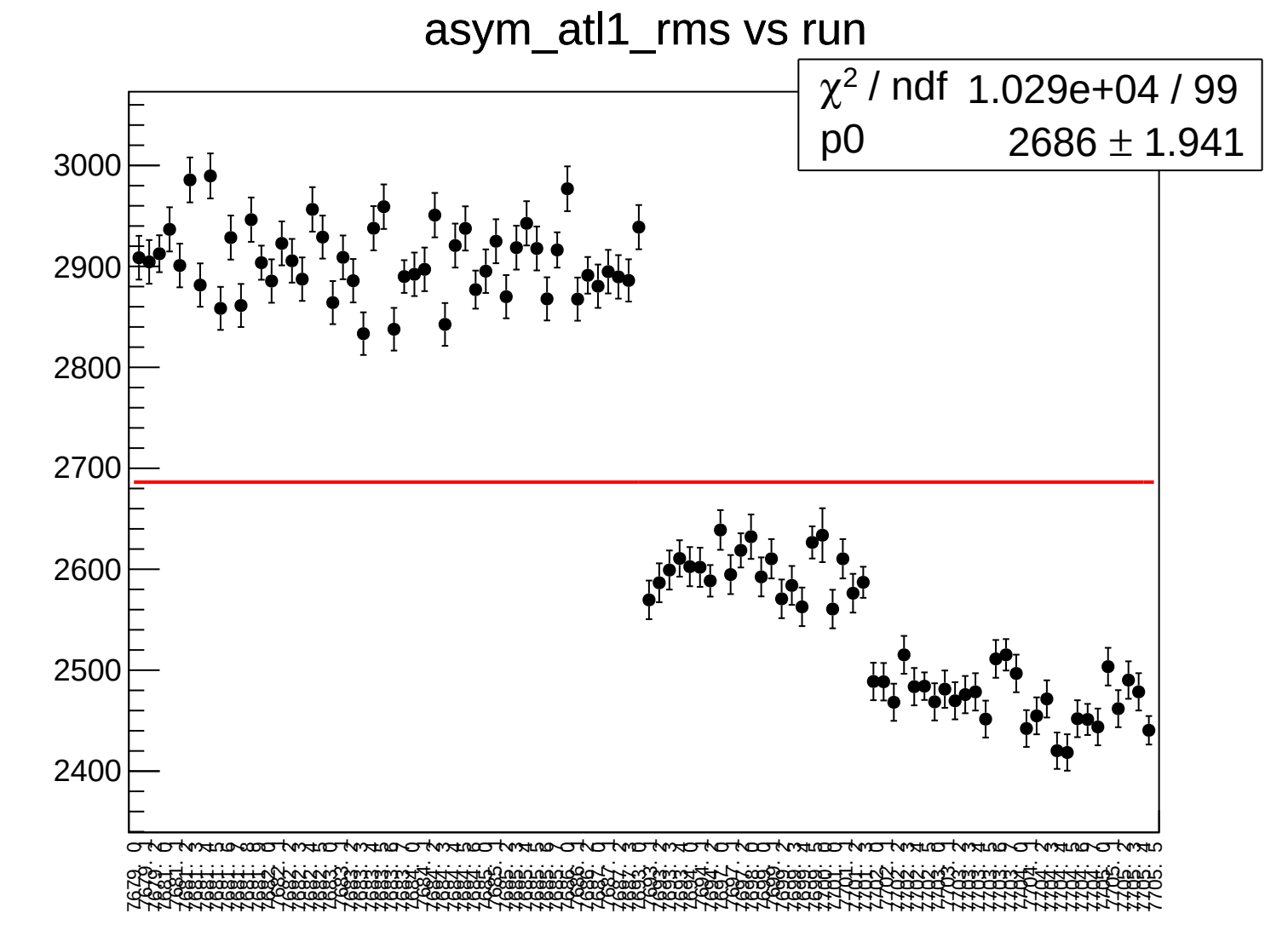

eigen_dit_asym_atl1_rms vs run
χ² / ndf 5539 / 99
p0 2484 ± 1.793
2800
2700
2600
2500
2400
2300

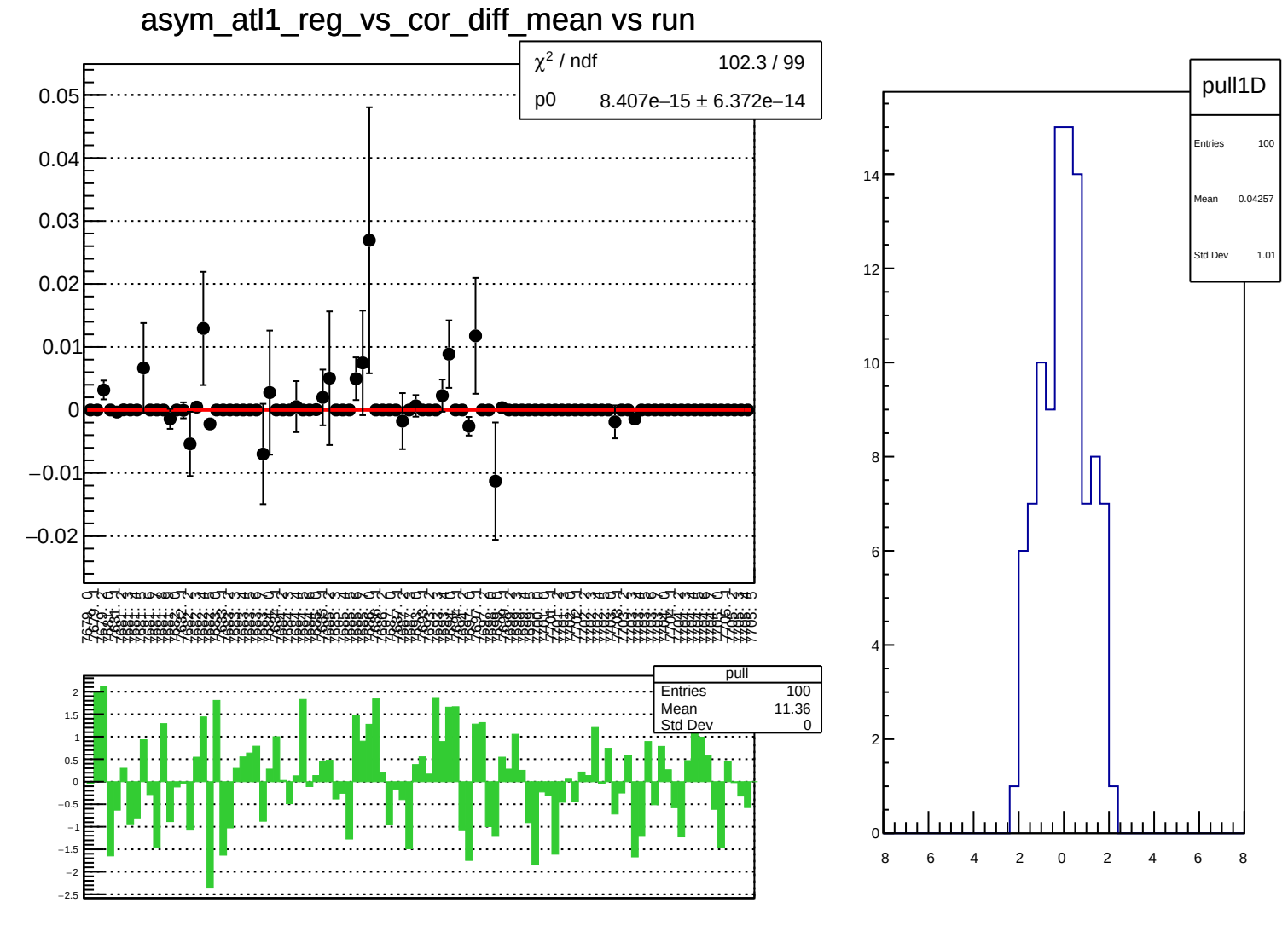

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 86.7 / 99
p0 −109.9 ± 939.1
40000
20000
0
−20000
−40000
pull
Entries 100
Mean −34.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.0423
Std Dev 0.9302
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

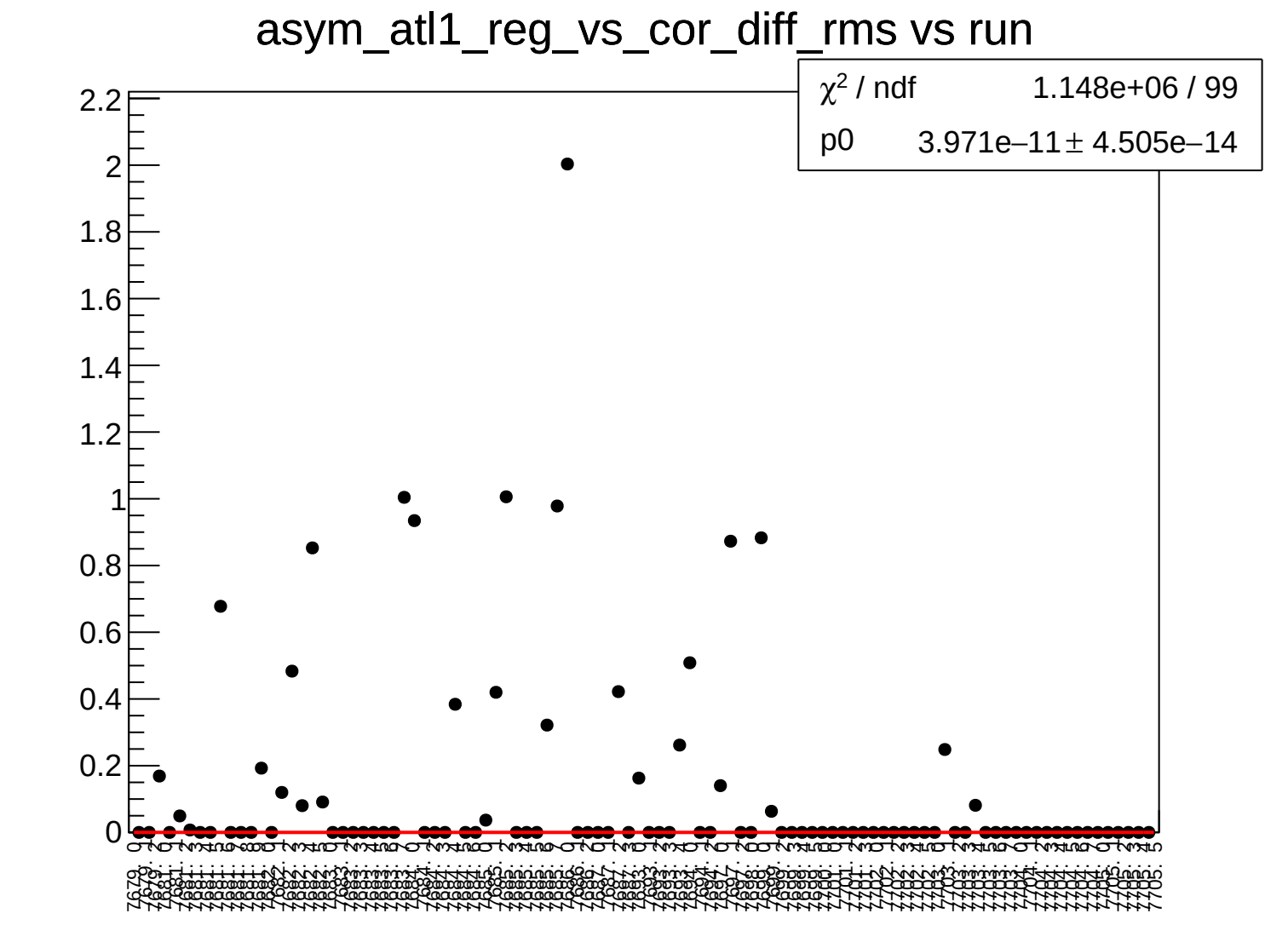

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 1.523e+05 / 99
p0 884.2 ± 0.6641
1300
1200
1100
1000
900
800
700
600

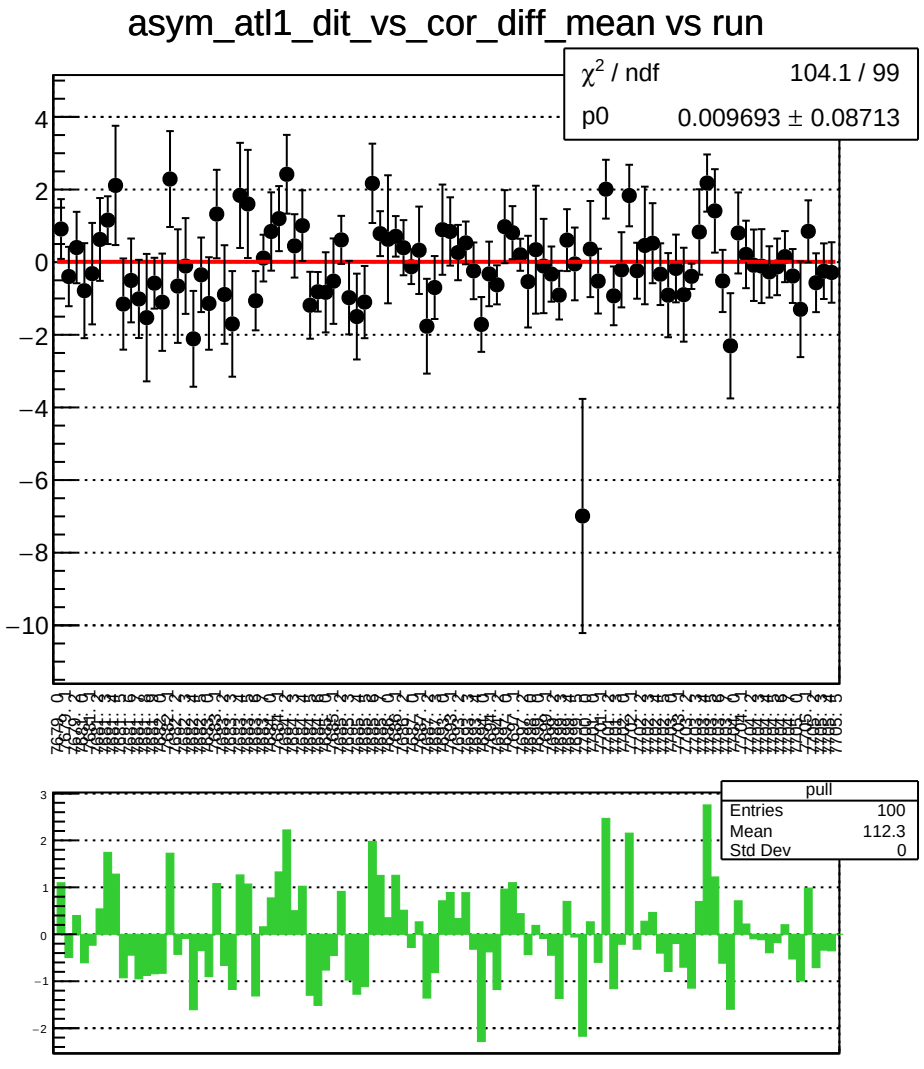

asym_atl1_mean vs run
×10^3
χ^2 / ndf 115.5 / 99
p0 −2338 ± 2745
100
50
0
−50
−100
pull
Entries 100
Mean −40.36
Std Dev 0
3
2
1
0
−1
−2
−3

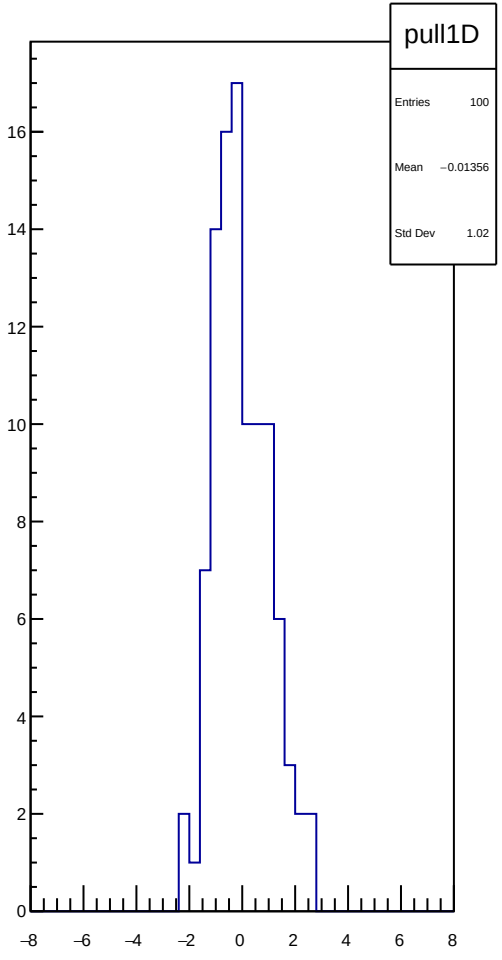

pull1D
Entries 100
Mean −0.01859
Std Dev 1.075
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

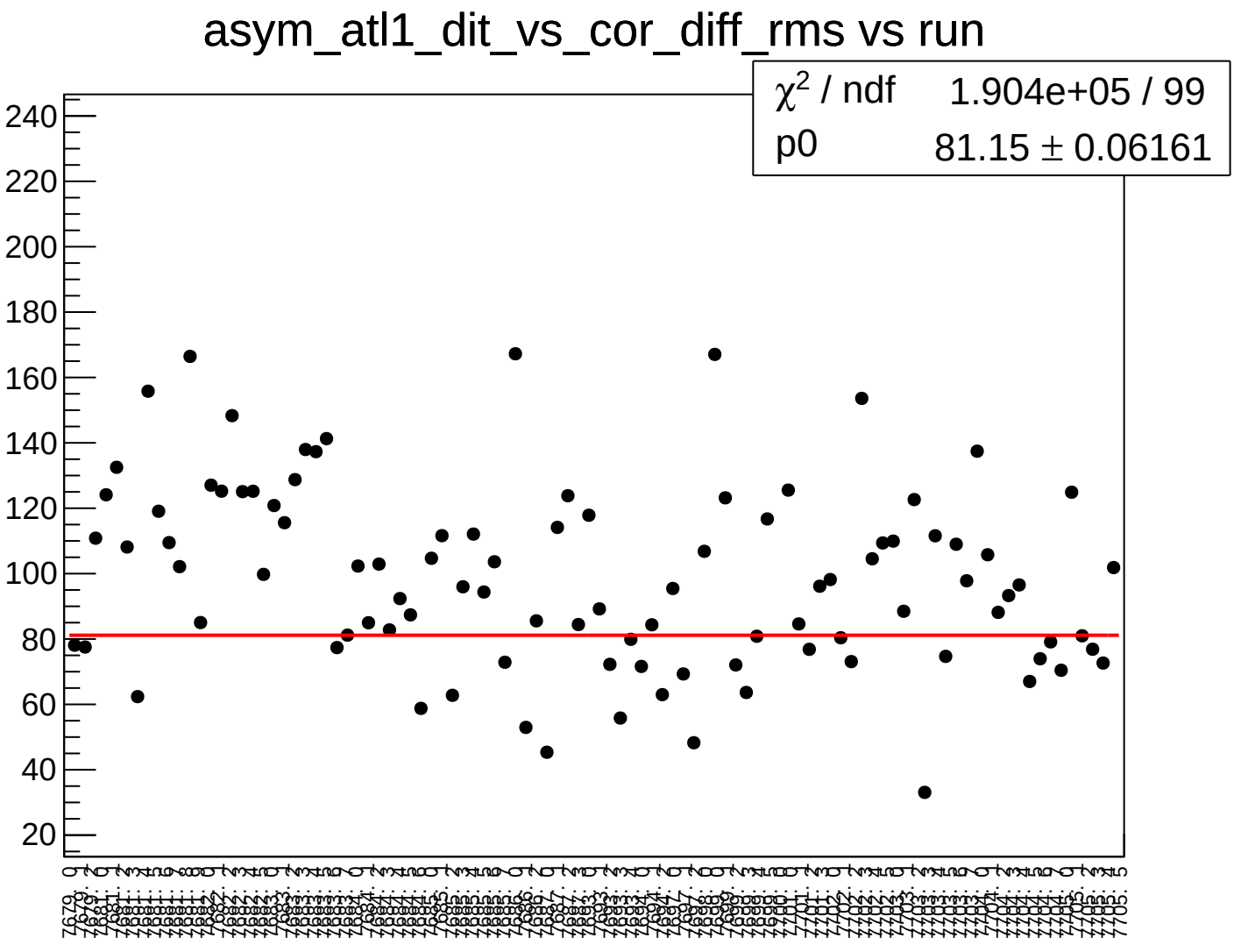

asym_atl1_rms vs run
χ² / ndf 1.029e+04 / 99
p0 2686 ± 1.941
3000
2900
2800
2700
2600
2500
2400

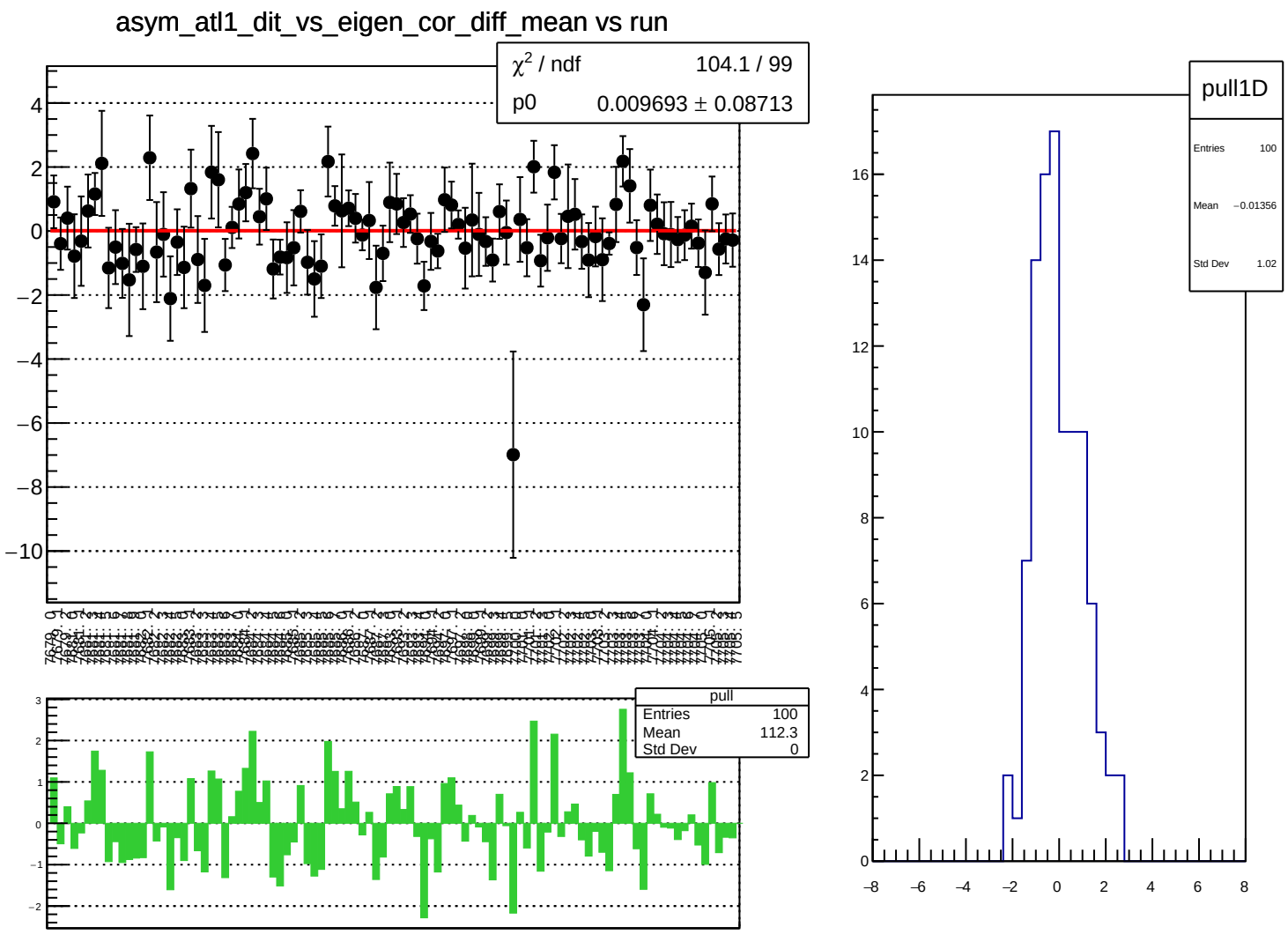

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 102.3 / 99
p0 8.407e−15 ± 6.372e−14
pull
Entries 100
Mean 11.36
Std Dev 0
pull1D
Entries 100
Mean 0.04257
Std Dev 1.01

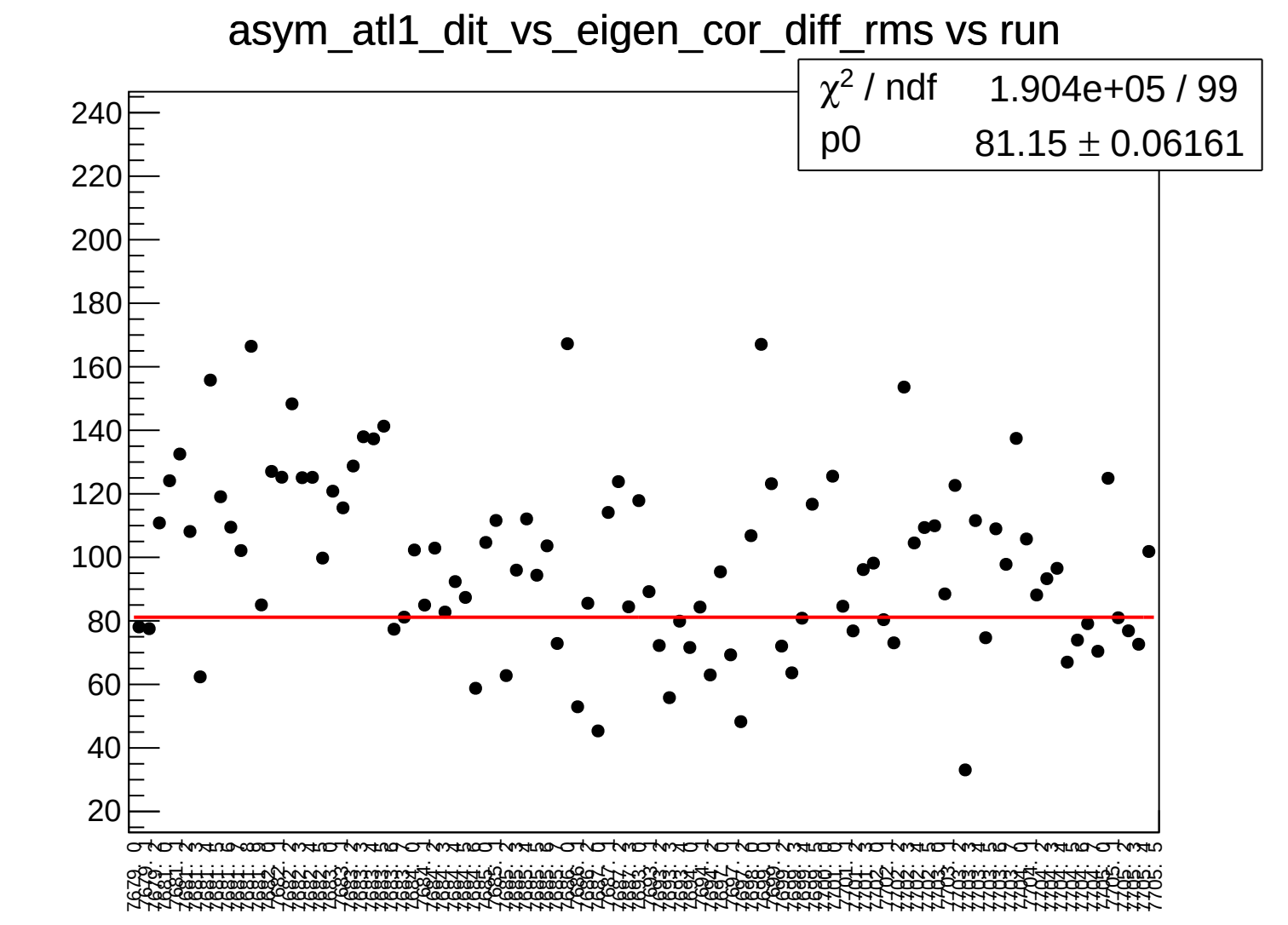

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.148e+06 / 99
p0 3.971e−11 ± 4.505e−14
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

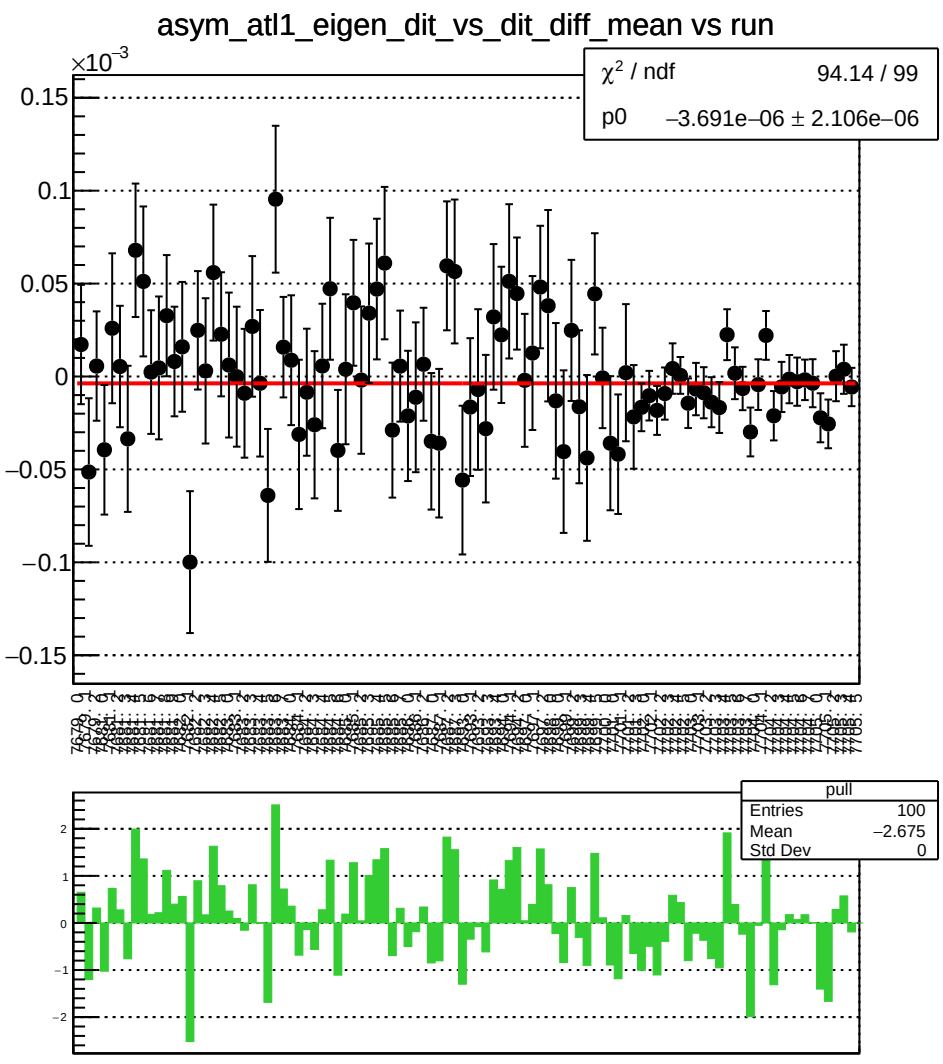

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 104.1 / 99
p0 0.009693 ± 0.08713
pull
Entries 100
Mean 112.3
Std Dev 0

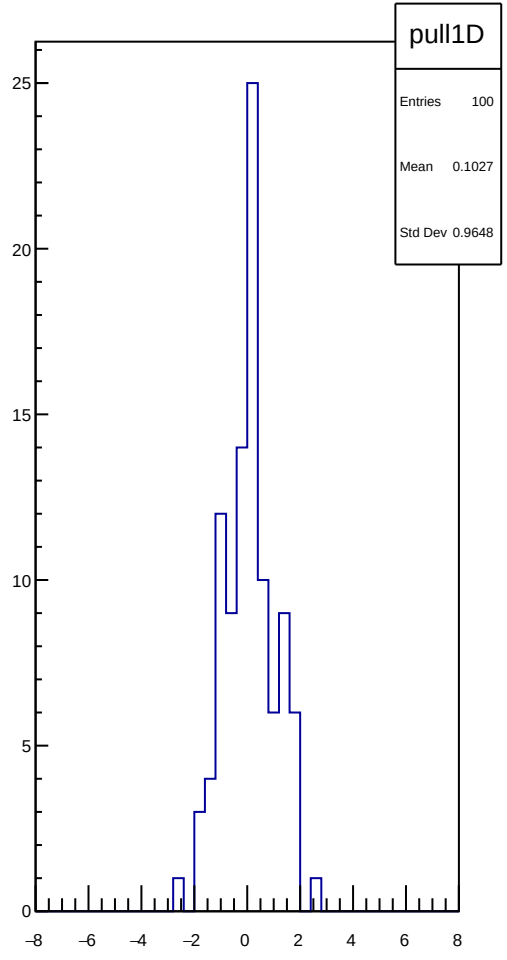

pull1D
Entries 100
Mean −0.01356
Std Dev 1.02

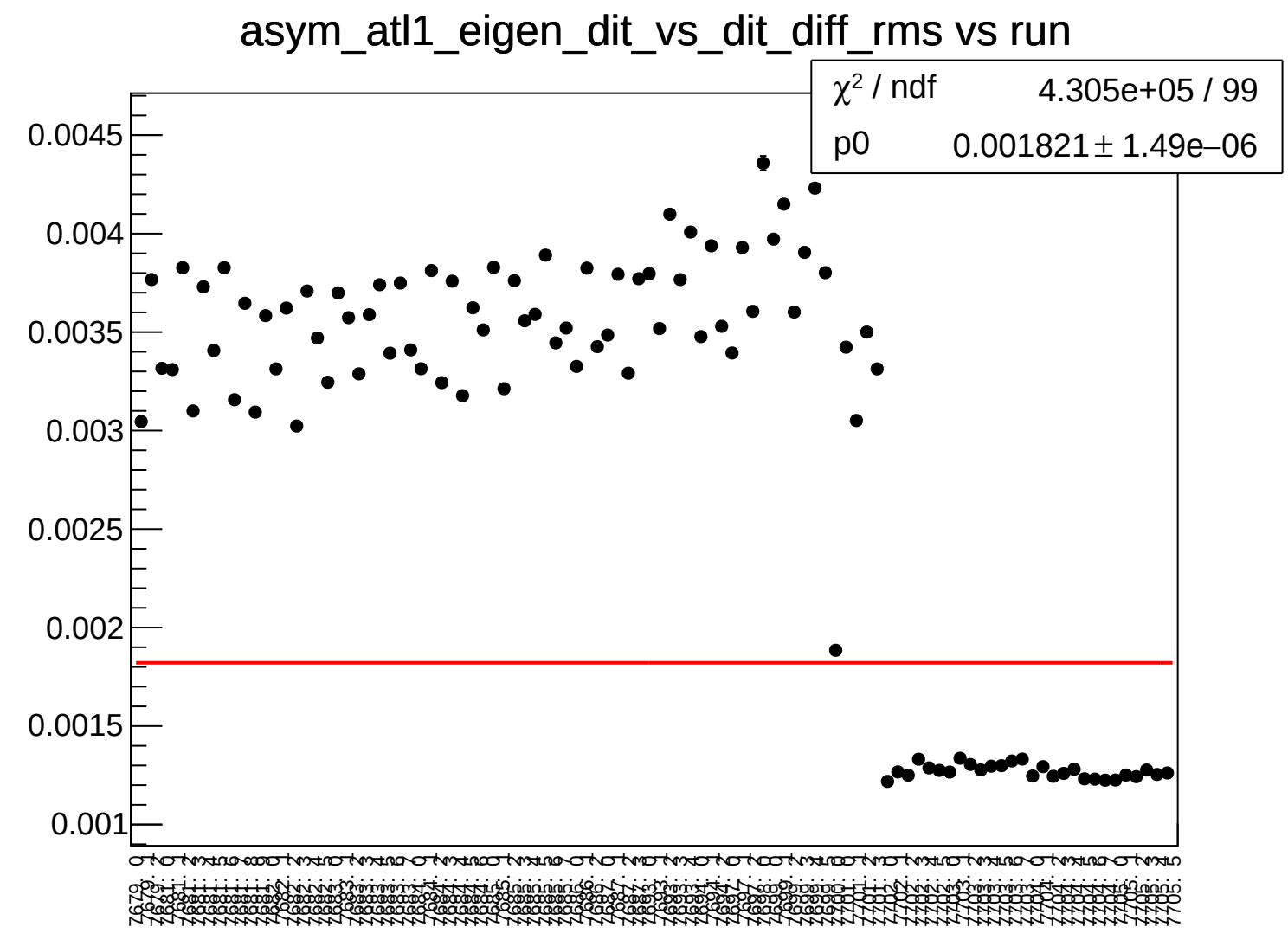

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 1.904e+05 / 99
p0 81.15 ± 0.06161
240
220
200
180
160
140
120
100
80
60
40
20

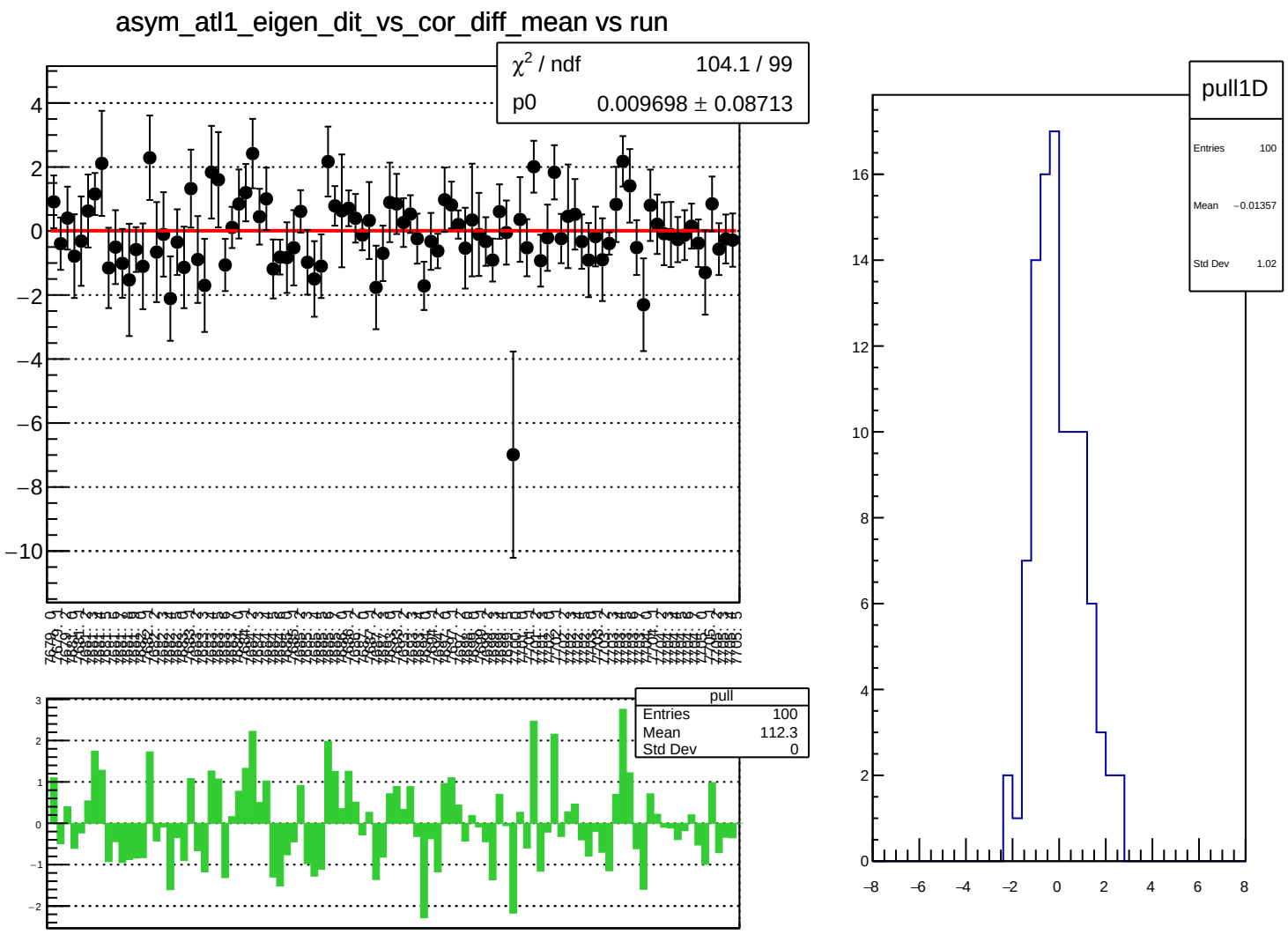

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.1 / 99
p0 0.009693 ± 0.08713
pull
Entries 100
Mean 112.3
Std Dev 0
pull1D
Entries 100
Mean −0.01356
Std Dev 1.02

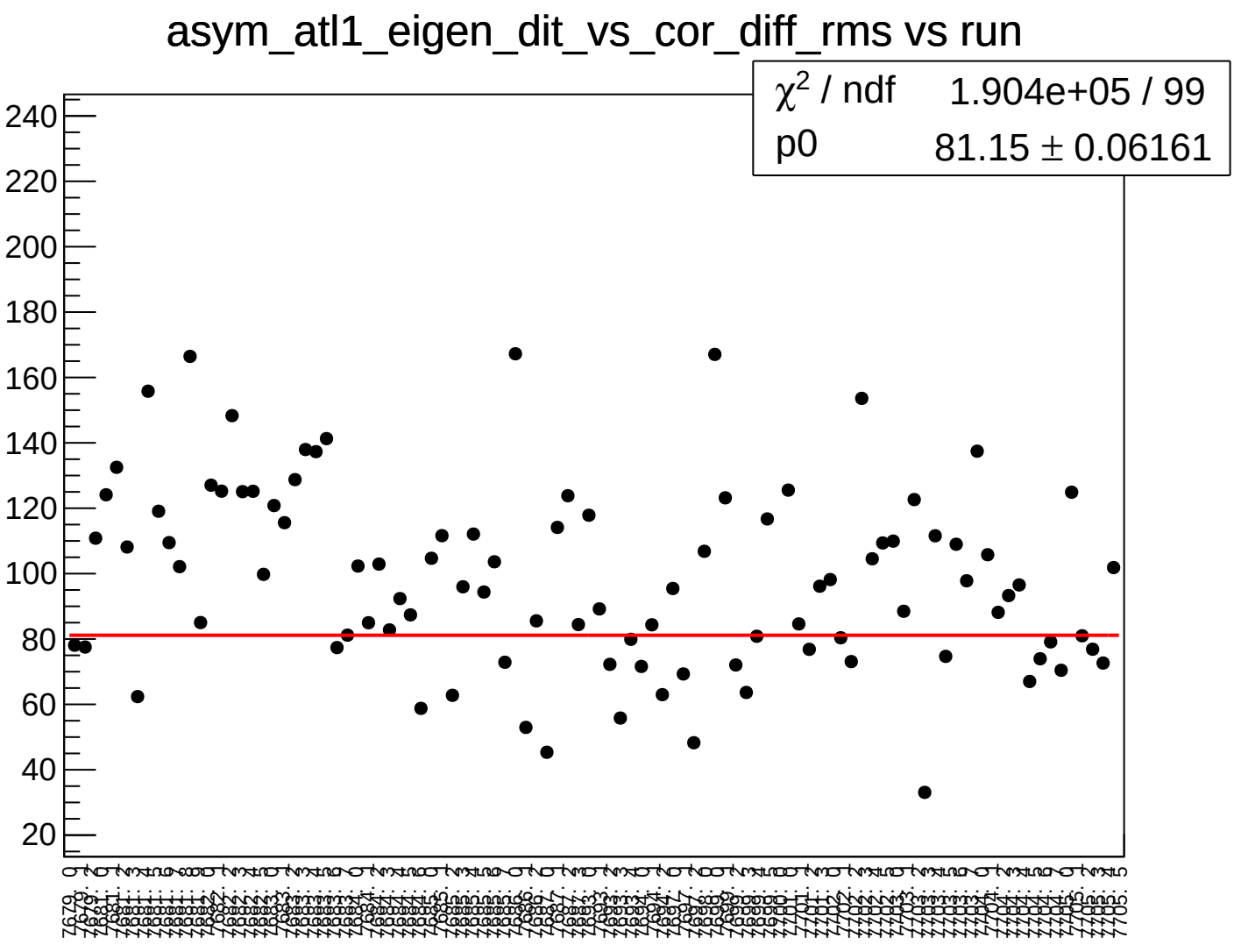

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.904e+05 / 99
p0 81.15 ± 0.06161
240
220
200
180
160
140
120
100
80
60
40
20

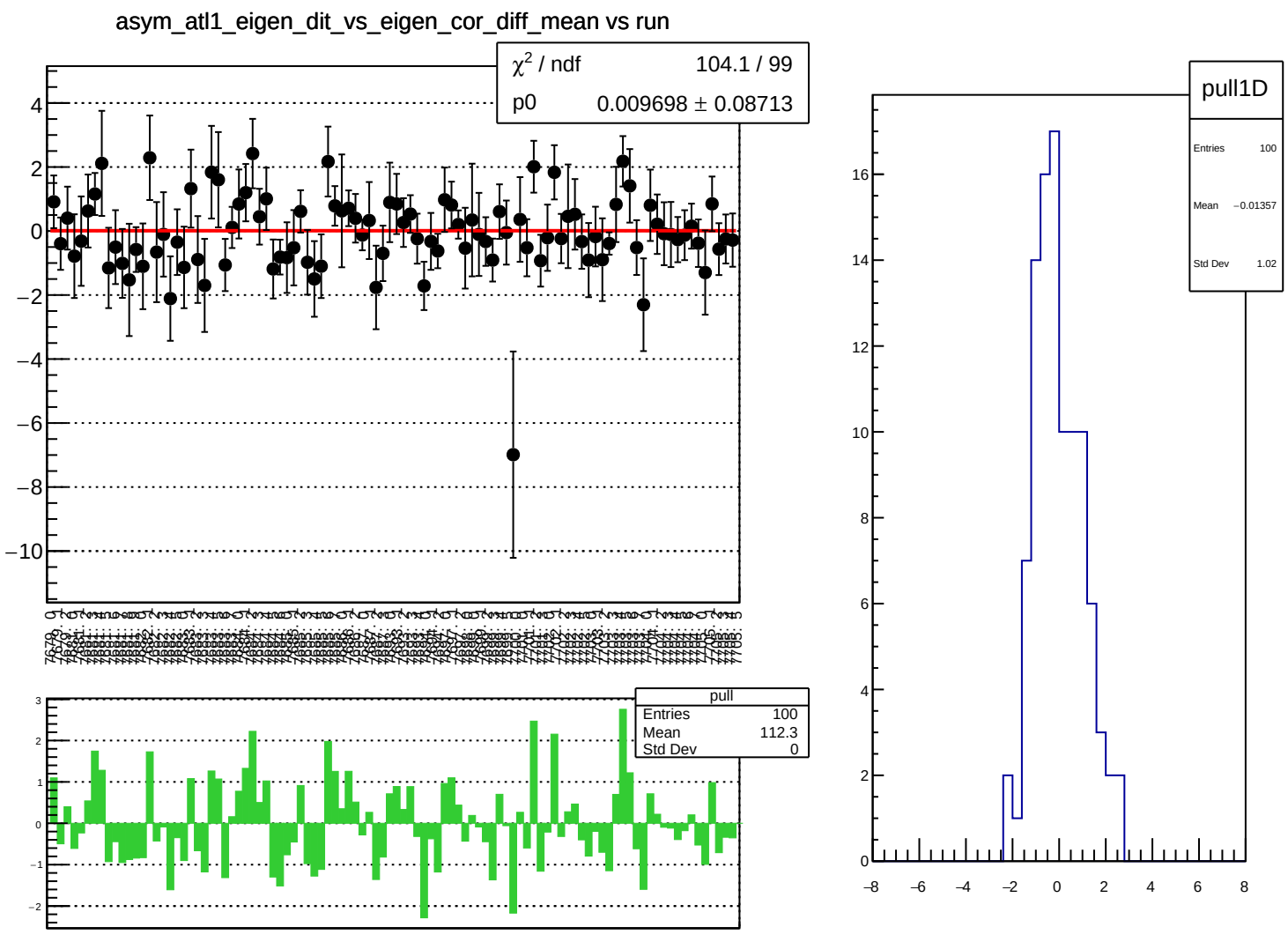

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.14 / 99
p0 −3.691e−06 ± 2.106e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 100
Mean −2.675
Std Dev 0
2
1
0
−1
−2

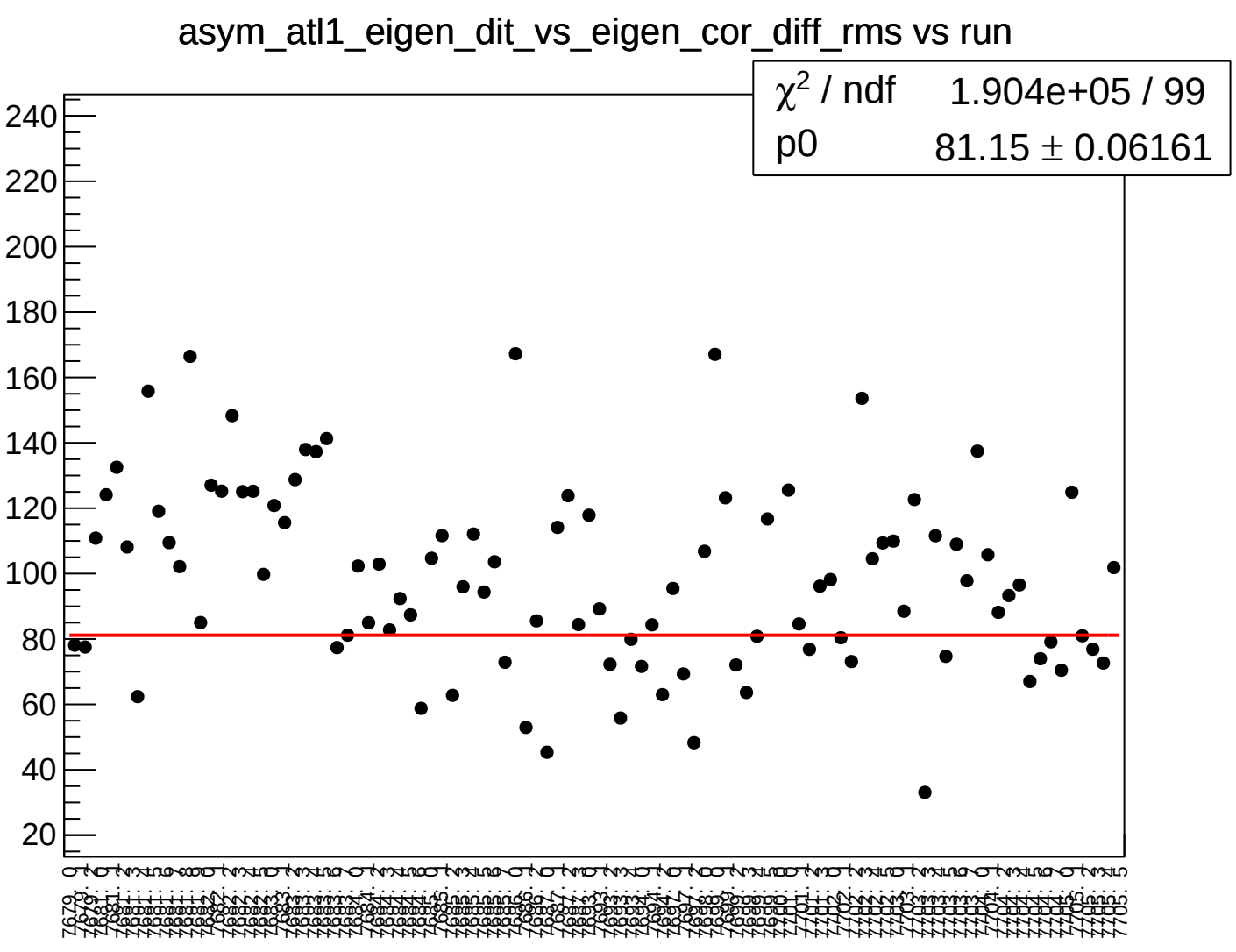

pull1D
Entries 100
Mean 0.1027
Std Dev 0.9648
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

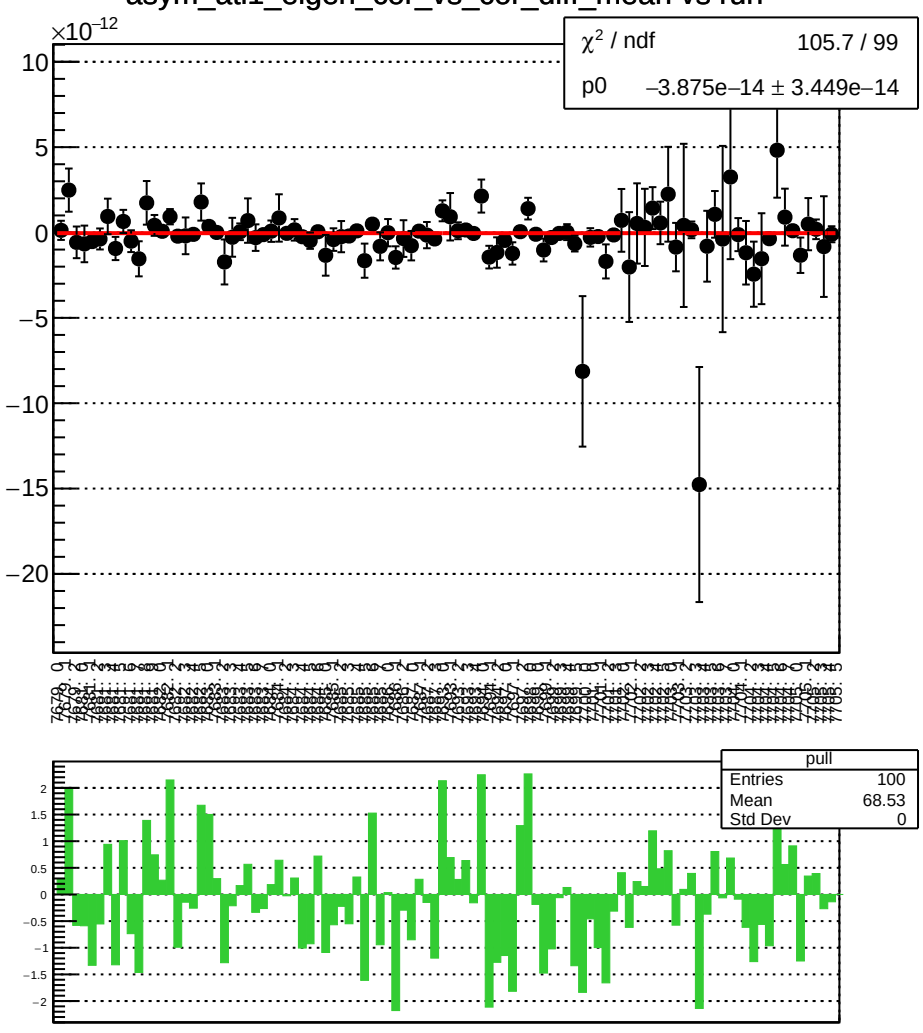

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.305e+05 / 99
p0 0.001821 ± 1.49e–06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

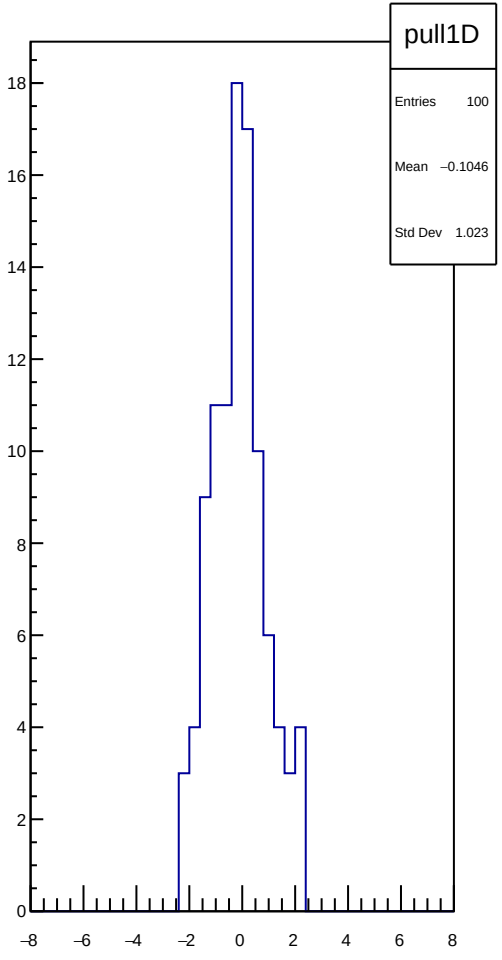

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.1 / 99
p0 0.009698 ± 0.08713
pull
Entries 100
Mean 112.3
Std Dev 0
pull1D
Entries 100
Mean −0.01357
Std Dev 1.02

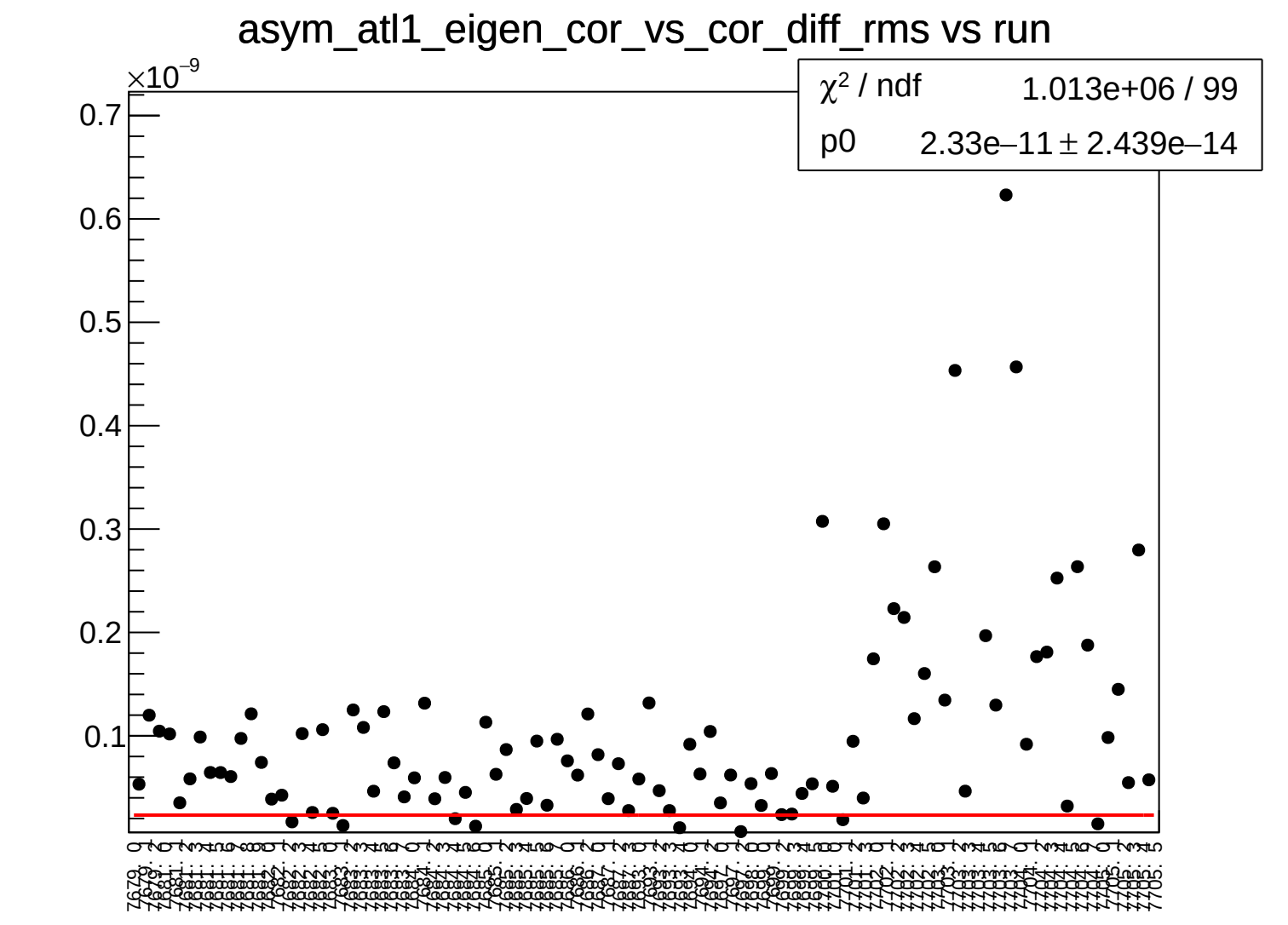

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.904e+05 / 99
p0 81.15 ± 0.06161
240
220
200
180
160
140
120
100
80
60
40
20

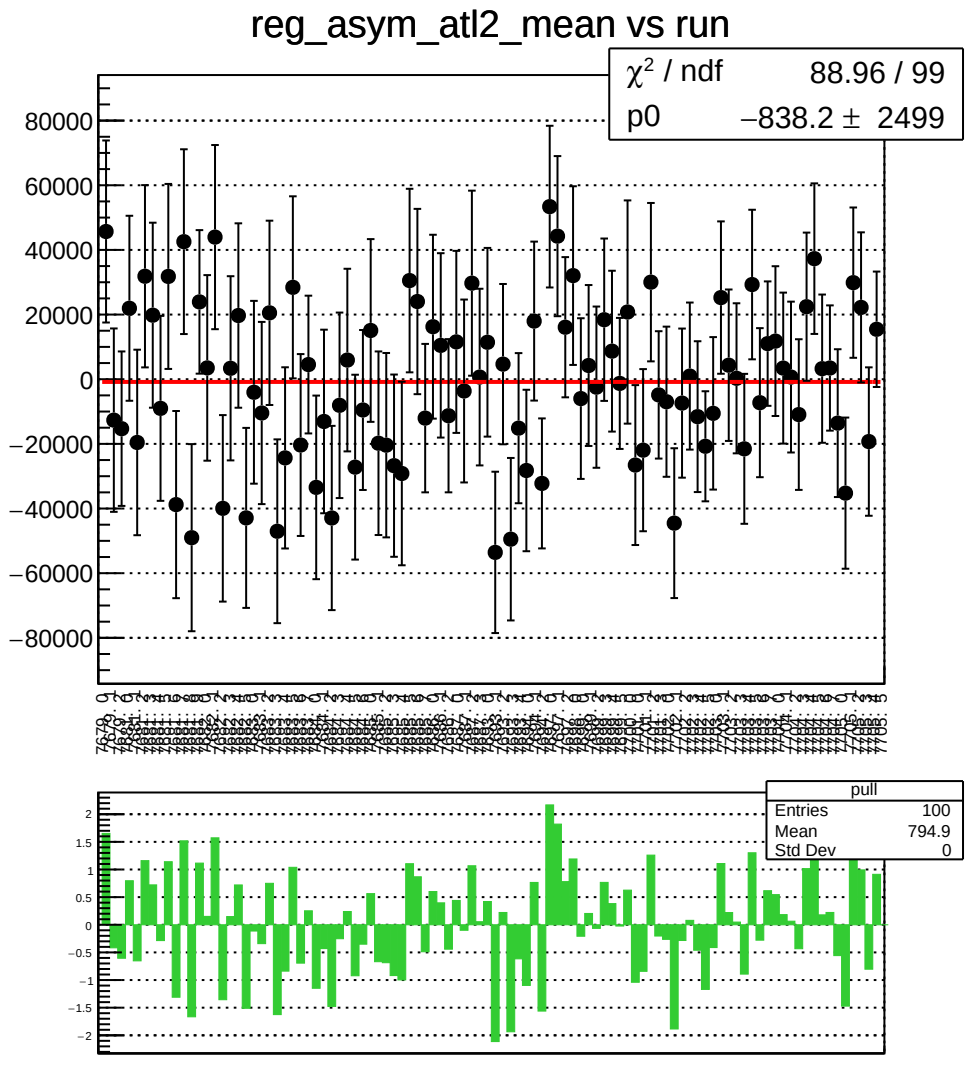

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.1 / 99
p0 0.009698 ± 0.08713
pull
Entries 100
Mean 112.3
Std Dev 0
pull1D
Entries 100
Mean −0.01357
Std Dev 1.02

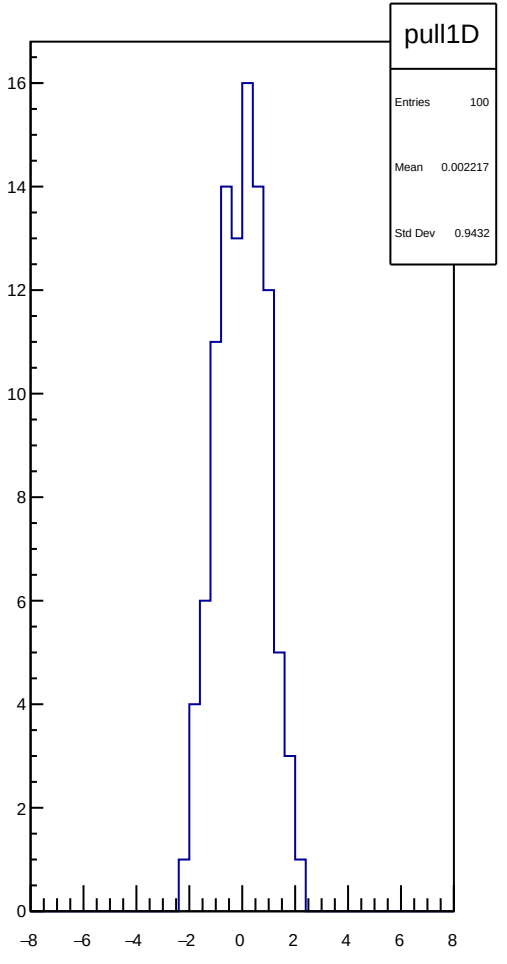

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.904e+05 / 99
p0 81.15 ± 0.06161
240
220
200
180
160
140
120
100
80
60
40
20

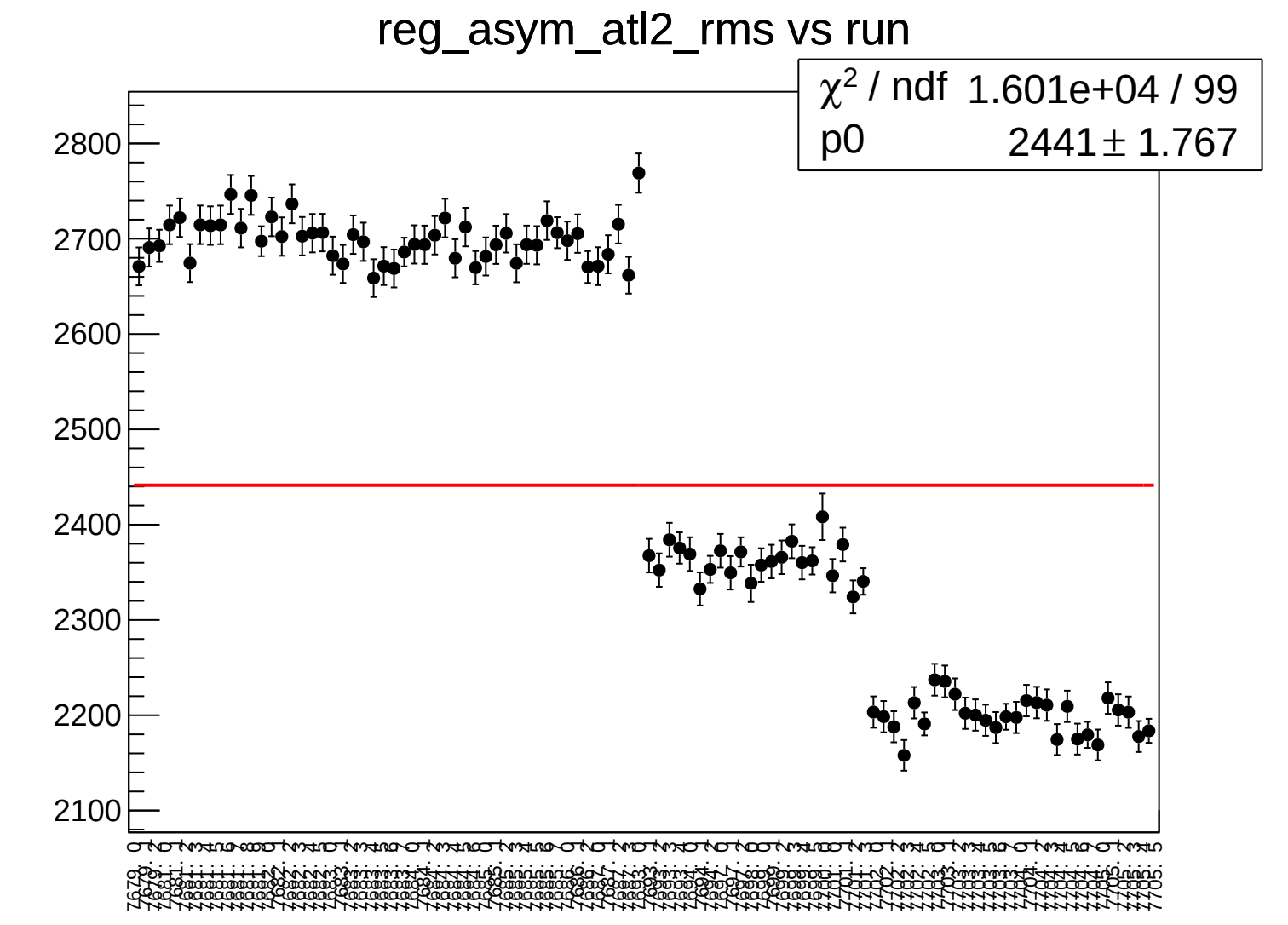

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 105.7 / 99
p0 −3.875e−14 ± 3.449e−14
pull
Entries 100
Mean 68.53
Std Dev 0

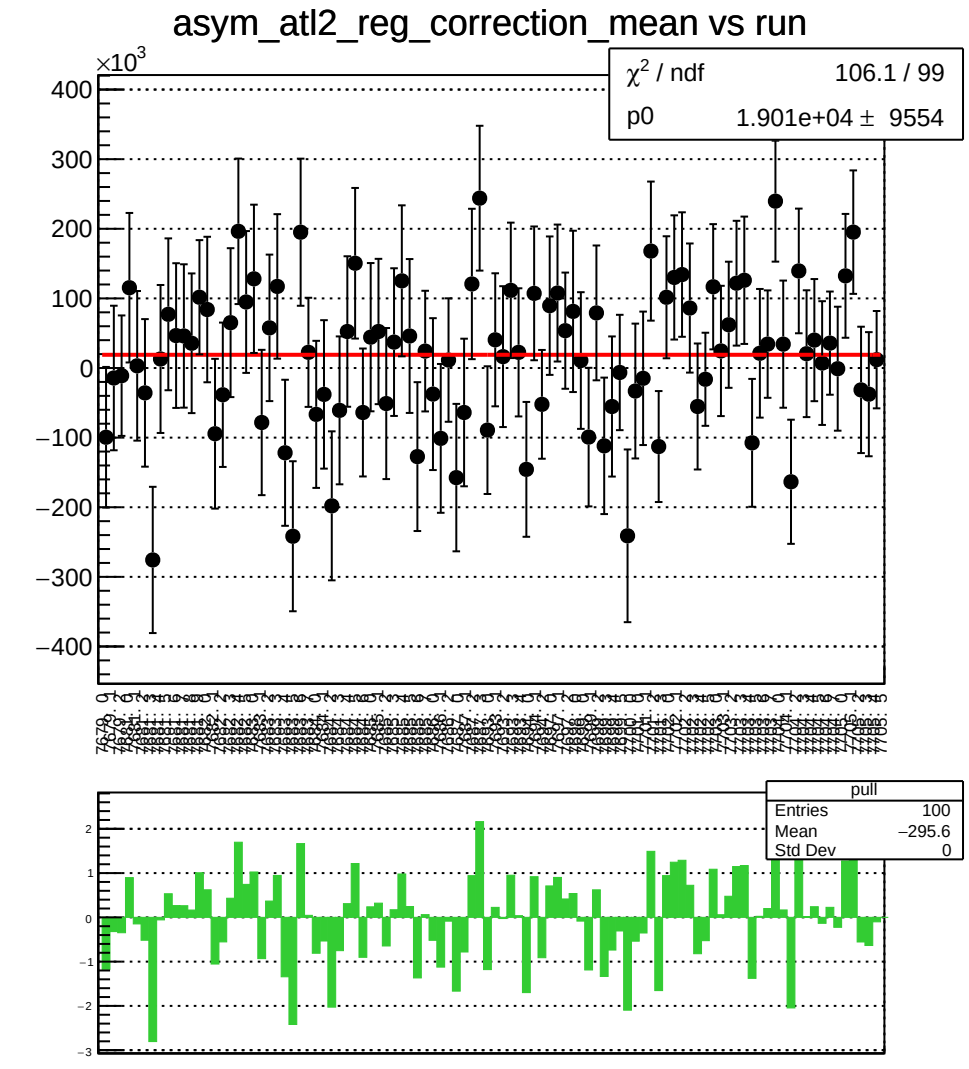

pull1D
Entries 100
Mean −0.1046
Std Dev 1.023

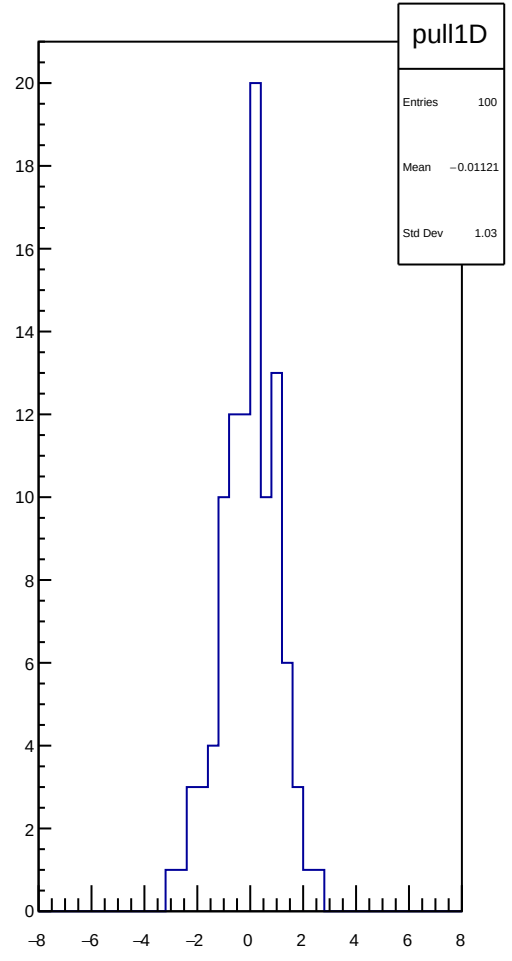

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 1.013e+06 / 99
p0 2.33e−11 ± 2.439e−14

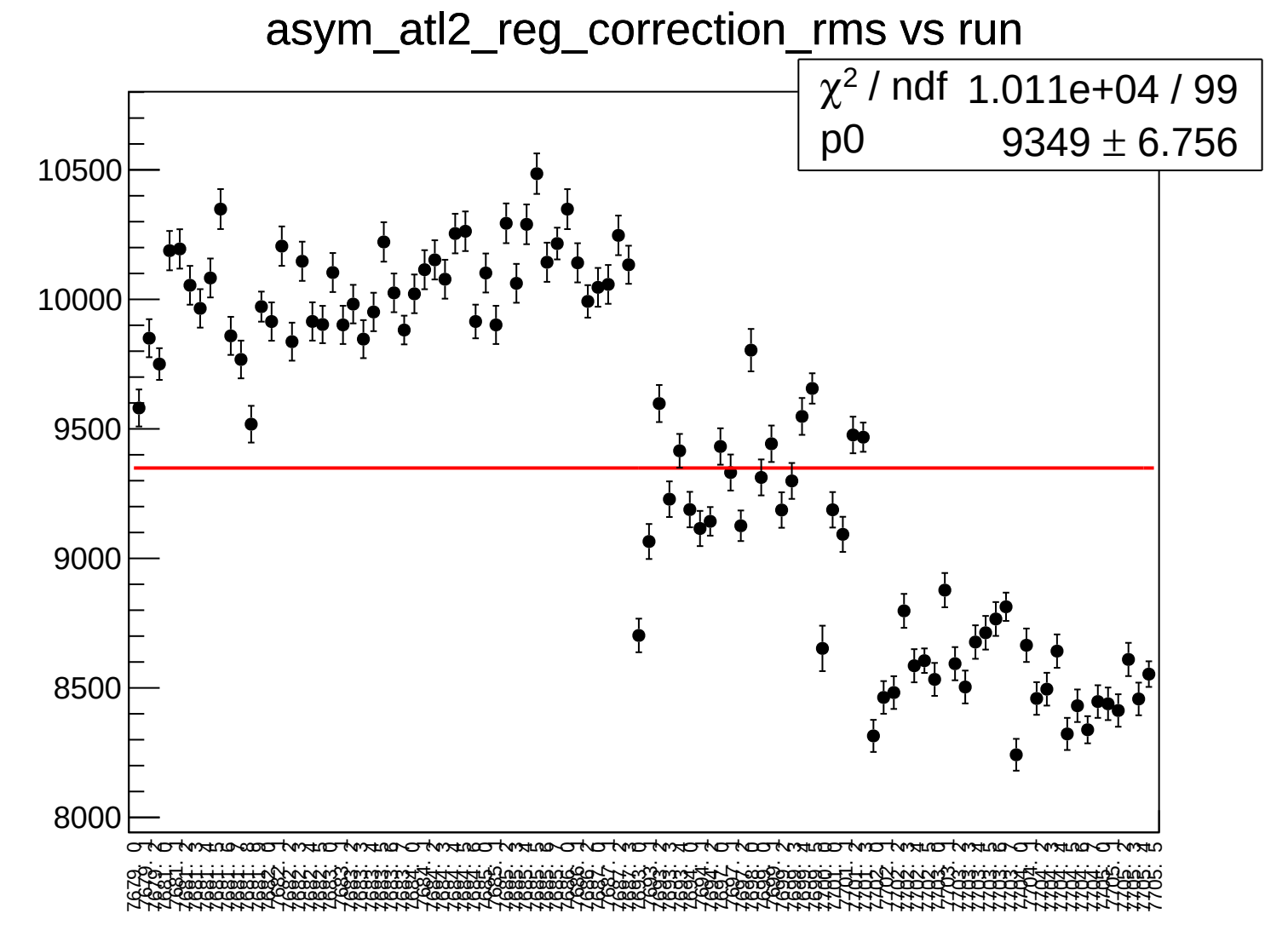

reg_asym_atl2_mean vs run
χ² / ndf 88.96 / 99
p0 −838.2 ± 2499
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean 794.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

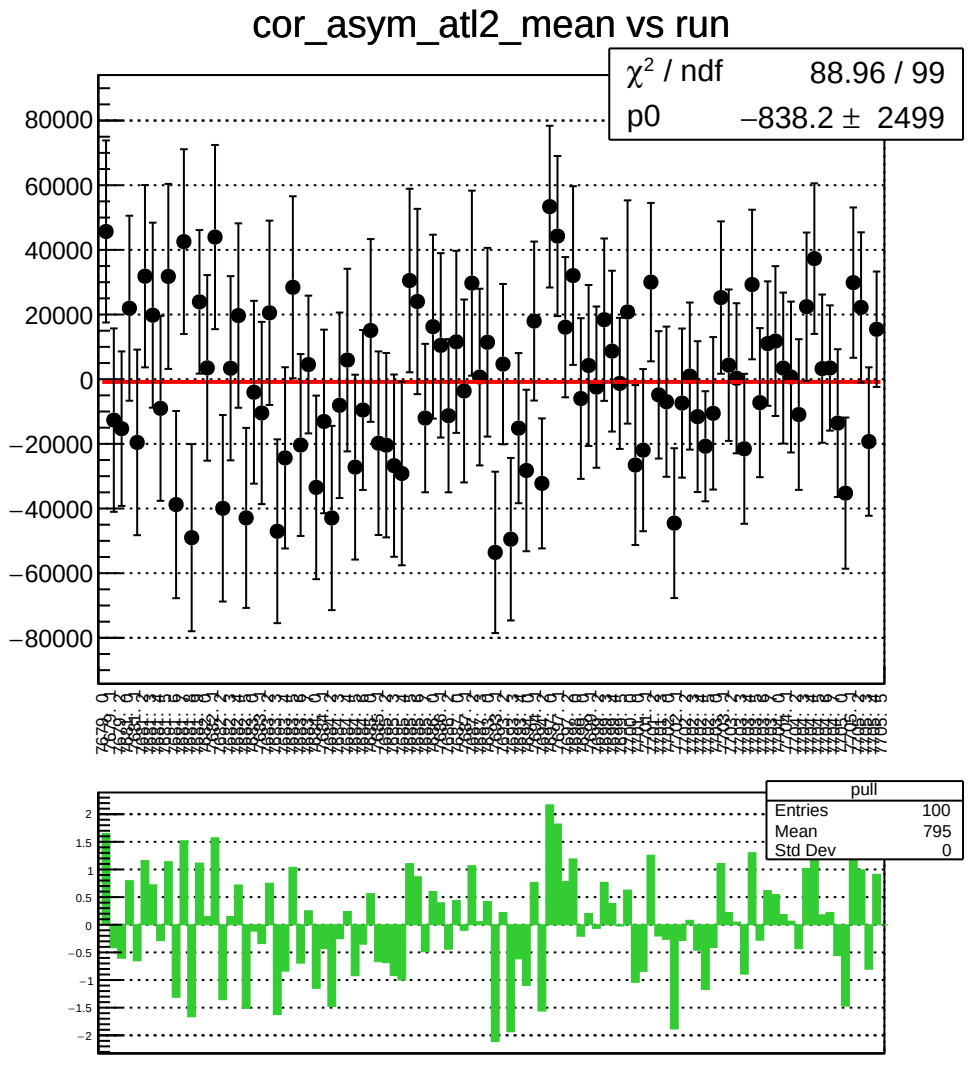

pull1D
Entries 100
Mean 0.002217
Std Dev 0.9432
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

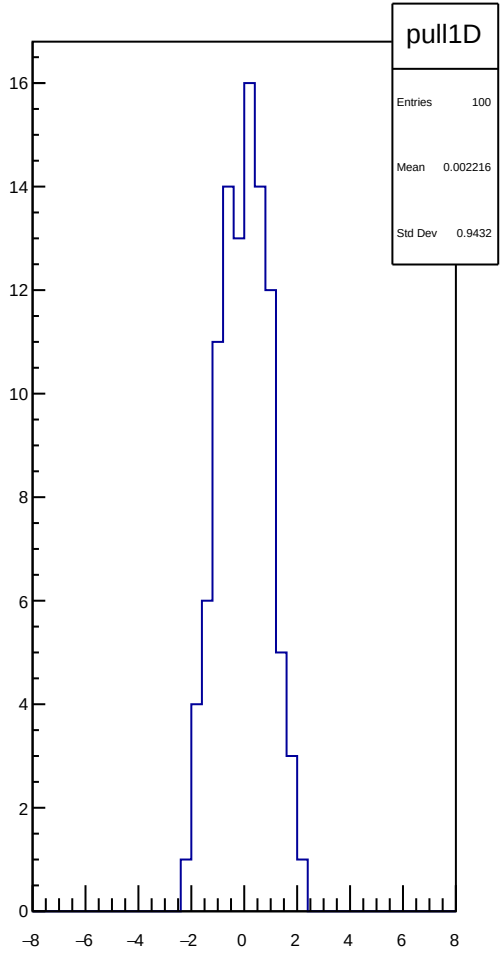

reg_asym_atl2_rms vs run
χ² / ndf 1.601e+04 / 99
p0 2441 ± 1.767
2800
2700
2600
2500
2400
2300
2200
2100

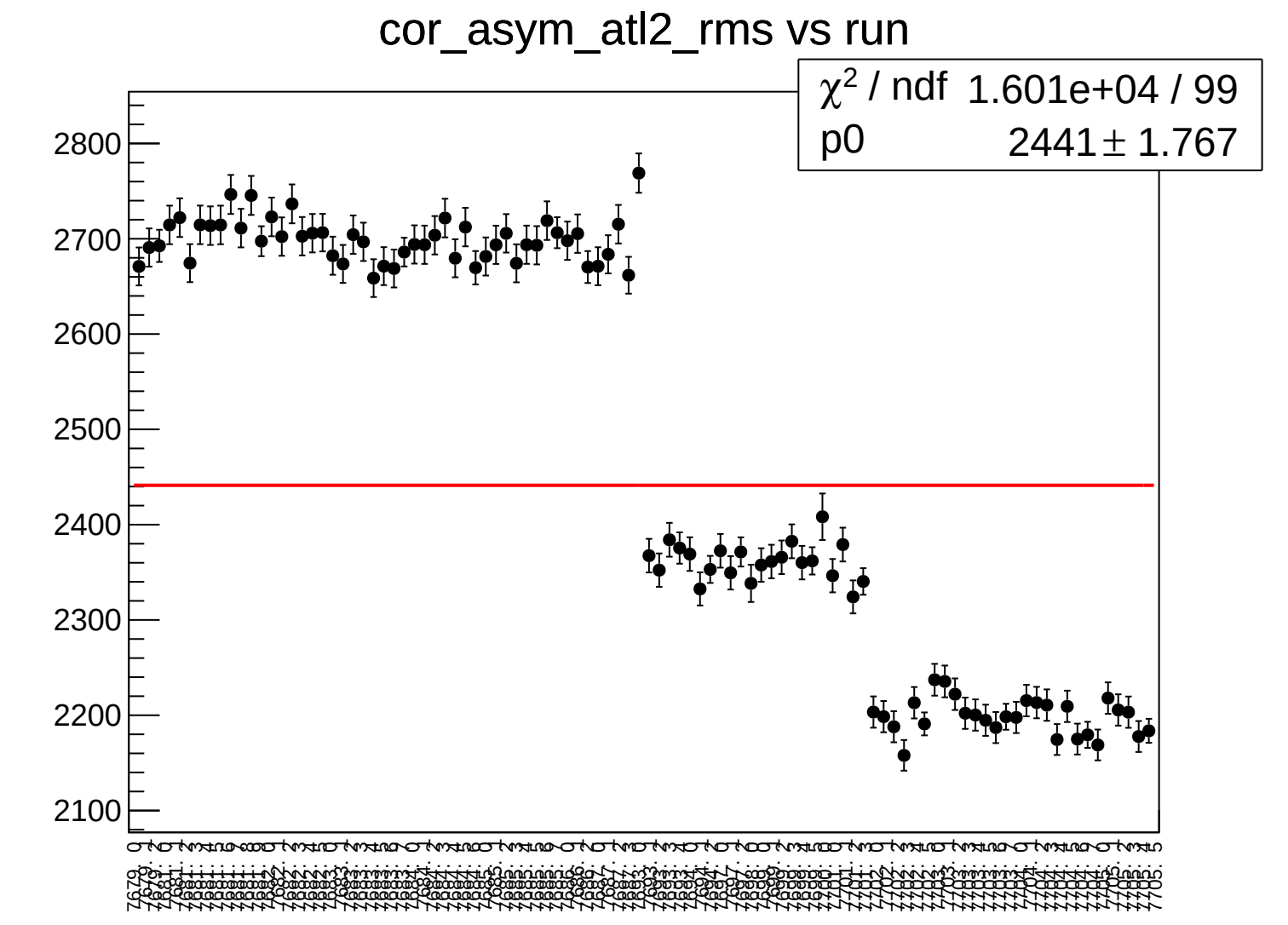

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 106.1 / 99
p0 1.901e+04 ± 9554
pull
Entries 100
Mean −295.6
Std Dev 0

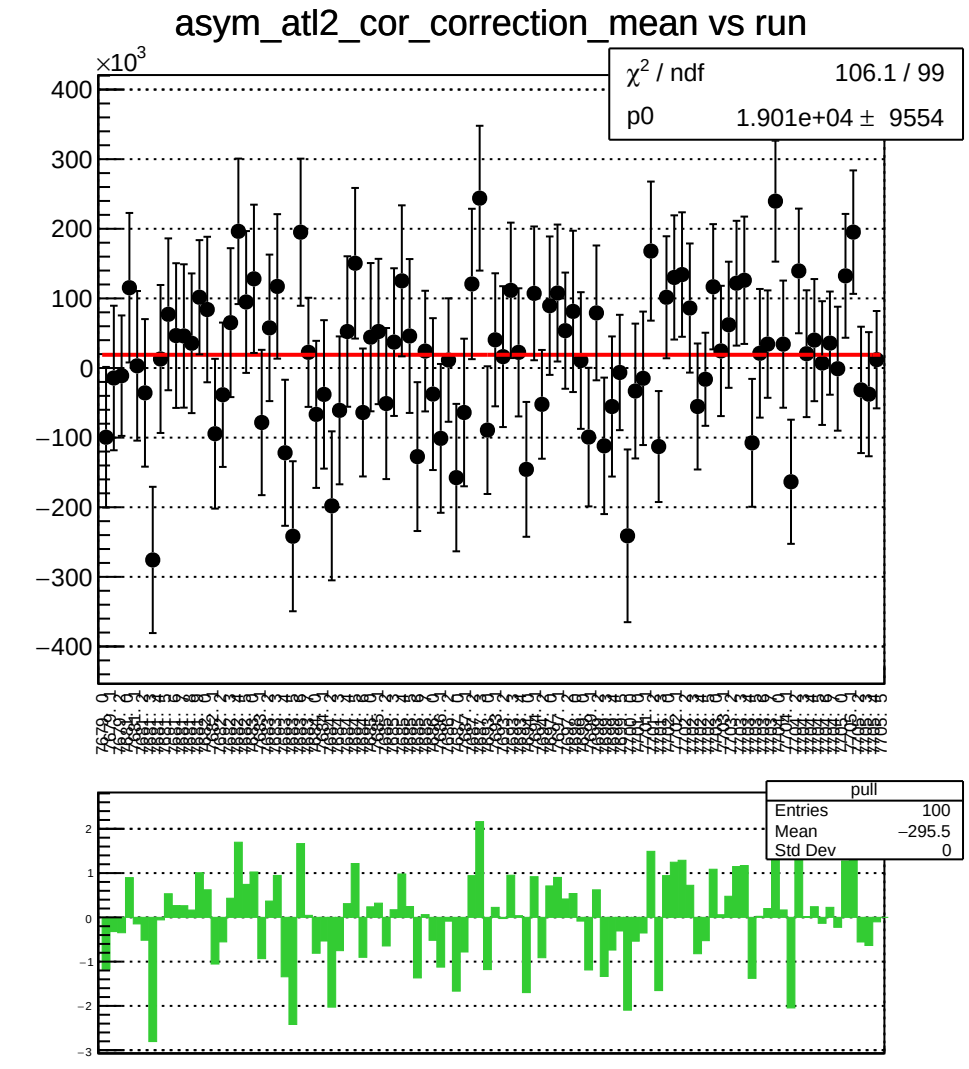

pull1D
Entries 100
Mean −0.01121
Std Dev 1.03

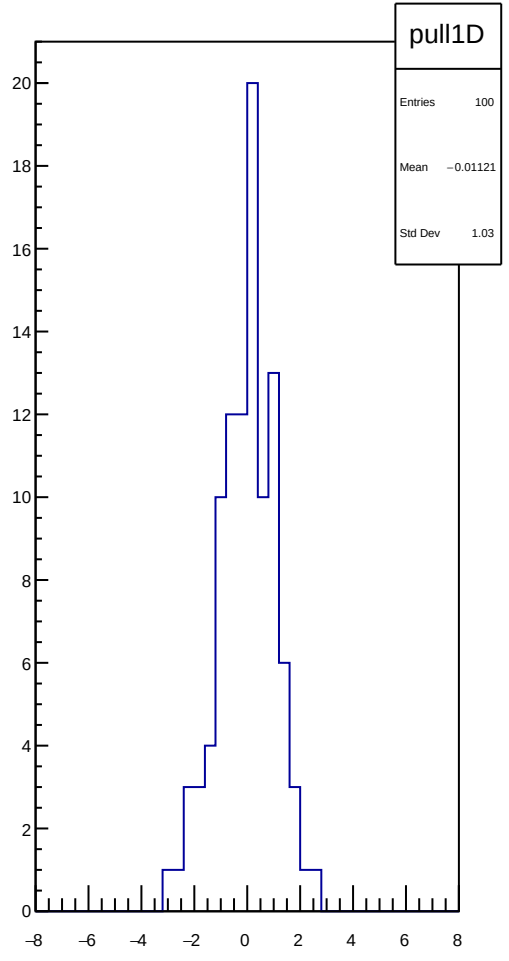

asym_atl2_reg_correction_rms vs run
χ² / ndf 1.011e+04 / 99
p0 9349 ± 6.756
10500
10000
9500
9000
8500
8000

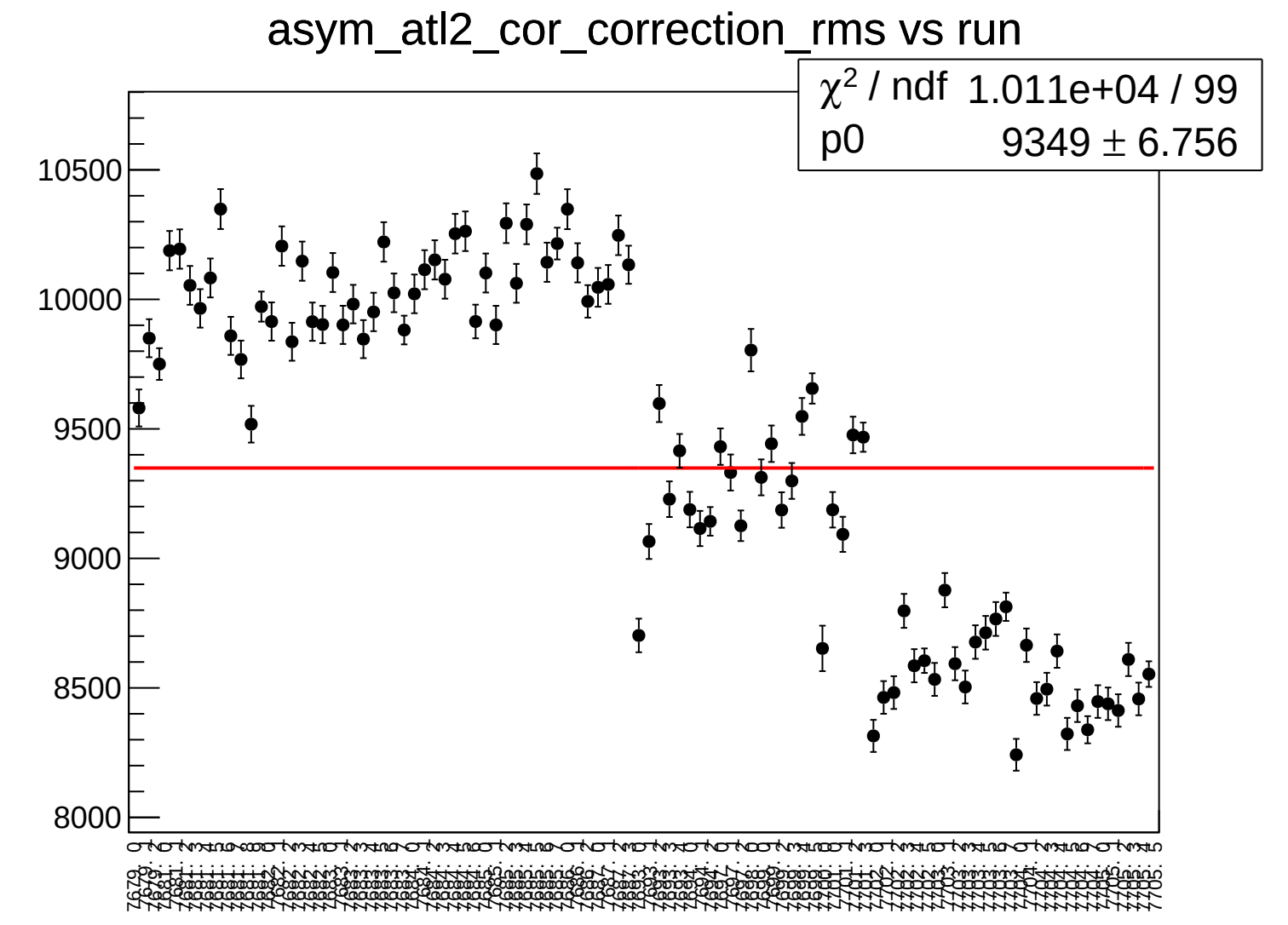

cor_asym_atl2_mean vs run
χ² / ndf 88.96 / 99
p0 −838.2 ± 2499
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean 795
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

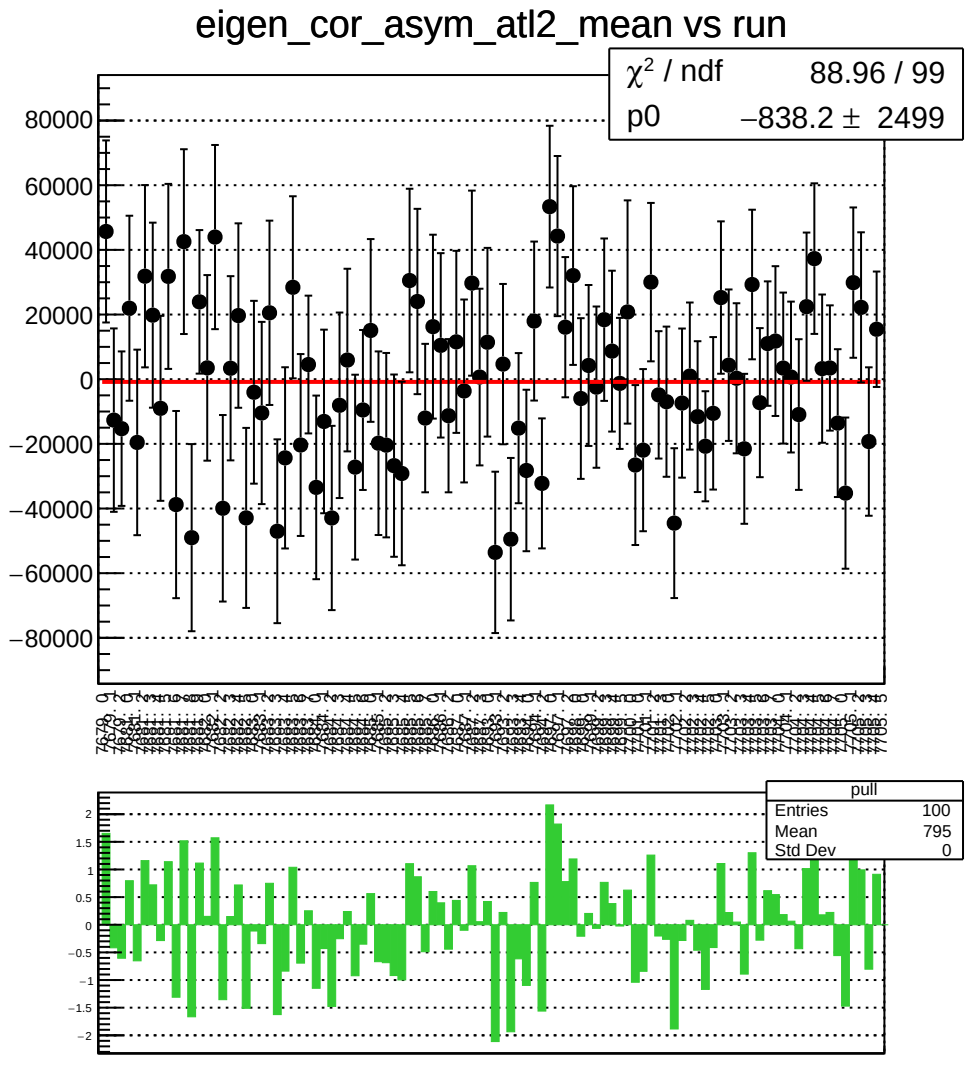

pull1D
Entries 100
Mean 0.002216
Std Dev 0.9432
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

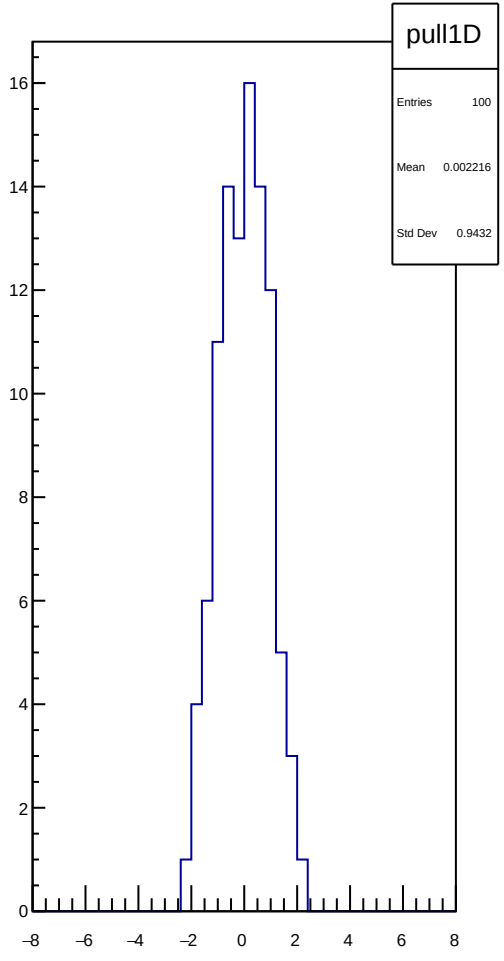

cor_asym_atl2_rms vs run
χ² / ndf 1.601e+04 / 99
p0 2441 ± 1.767
2800
2700
2600
2500
2400
2300
2200
2100

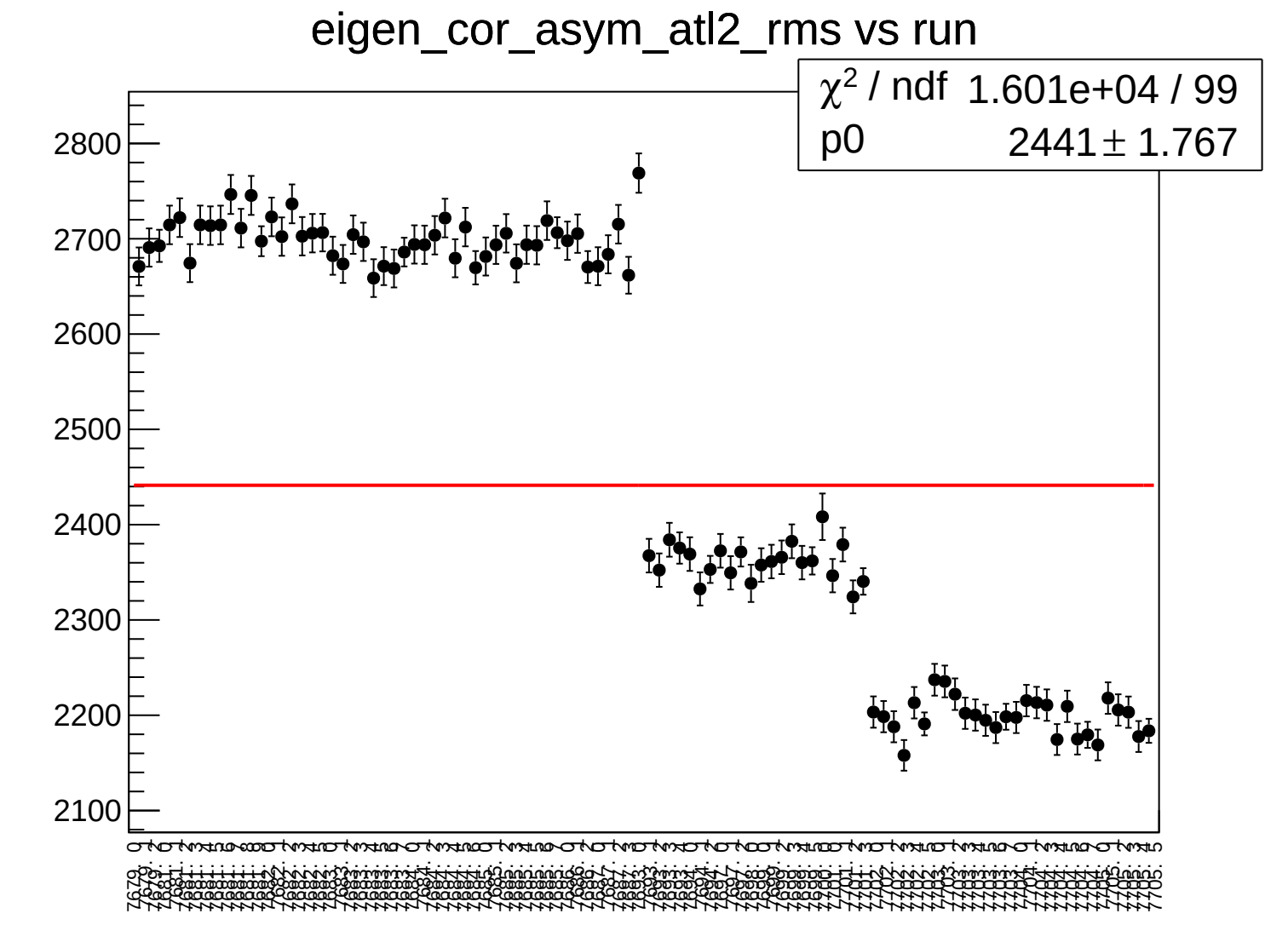

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 106.1 / 99
p0 1.901e+04 ± 9554
pull
Entries 100
Mean −295.5
Std Dev 0

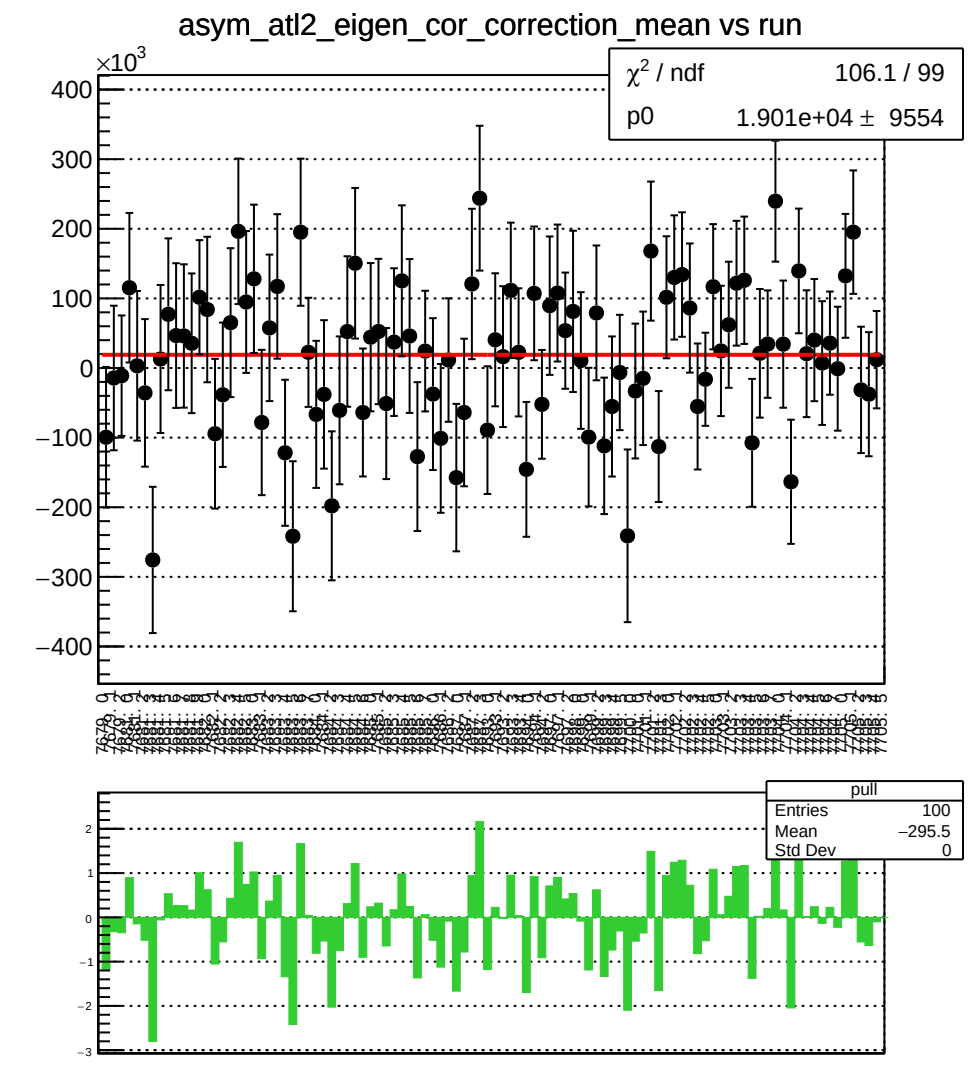

pull1D
Entries 100
Mean −0.01121
Std Dev 1.03

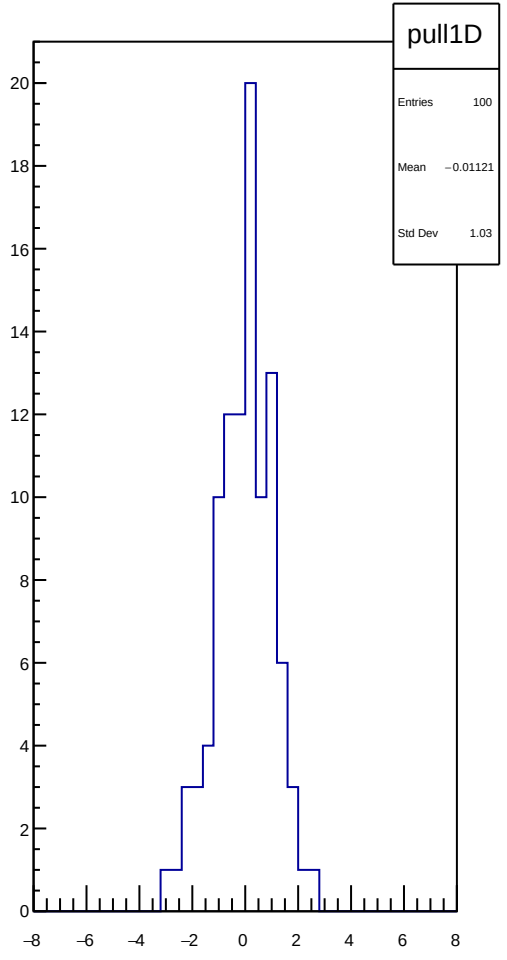

asym_atl2_cor_correction_rms vs run
χ² / ndf 1.011e+04 / 99
p0 9349 ± 6.756
10500
10000
9500
9000
8500
8000

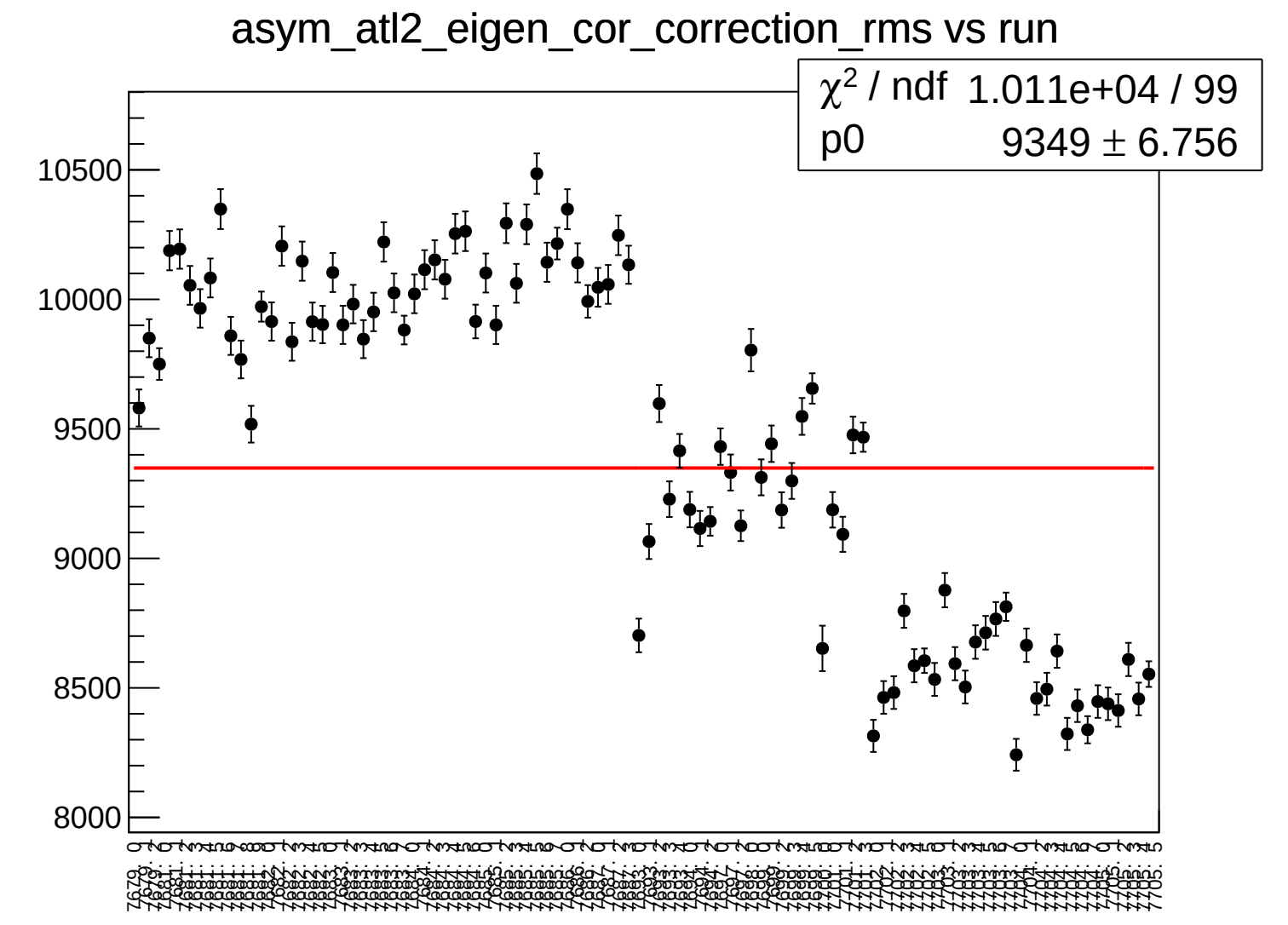

eigen_cor_asym_atl2_mean vs run
χ² / ndf 88.96 / 99
p0 −838.2 ± 2499
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean 795
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

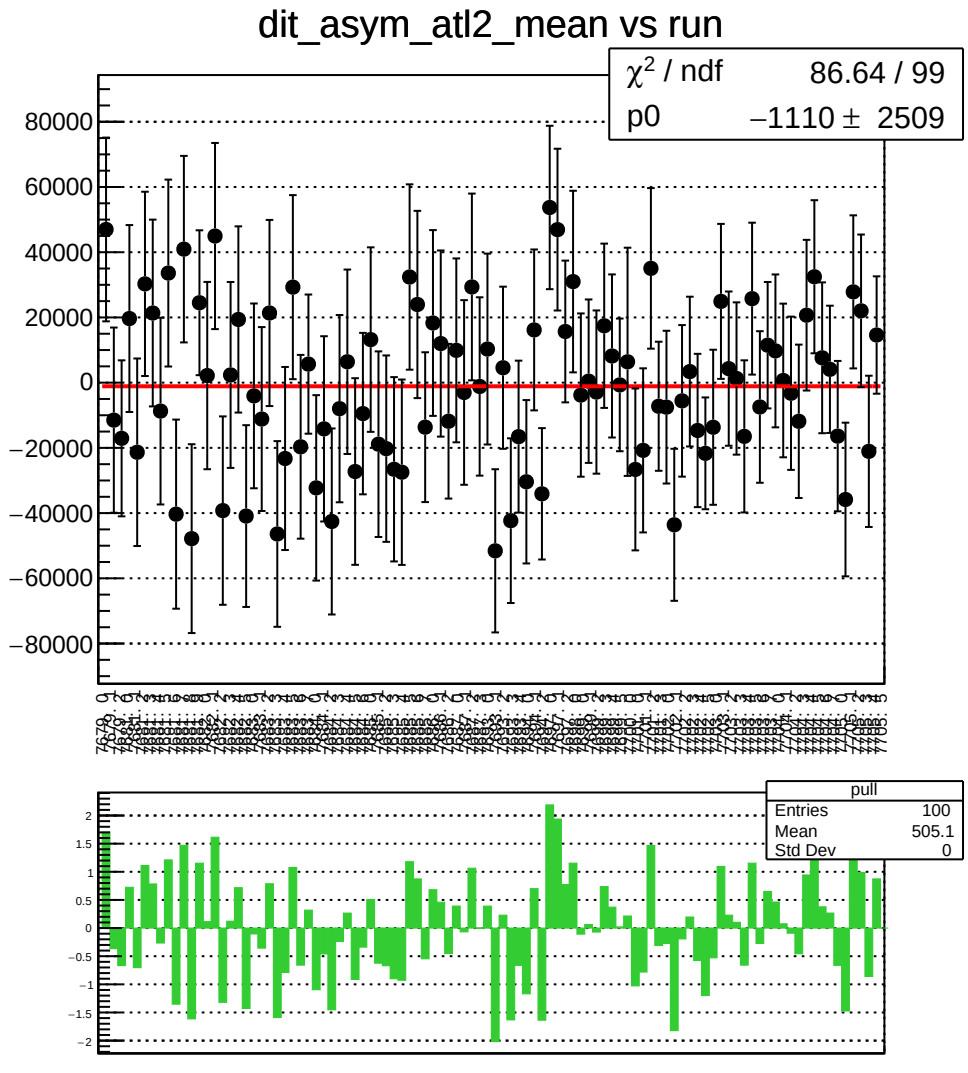

pull1D
Entries 100
Mean 0.002216
Std Dev 0.9432
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

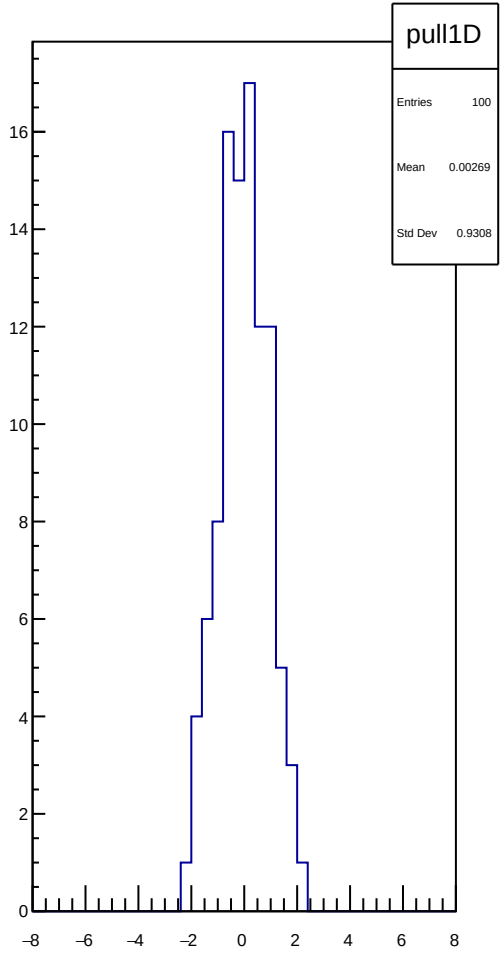

eigen_cor_asym_atl2_rms vs run
χ² / ndf 1.601e+04 / 99
p0 2441 ± 1.767
2800
2700
2600
2500
2400
2300
2200
2100

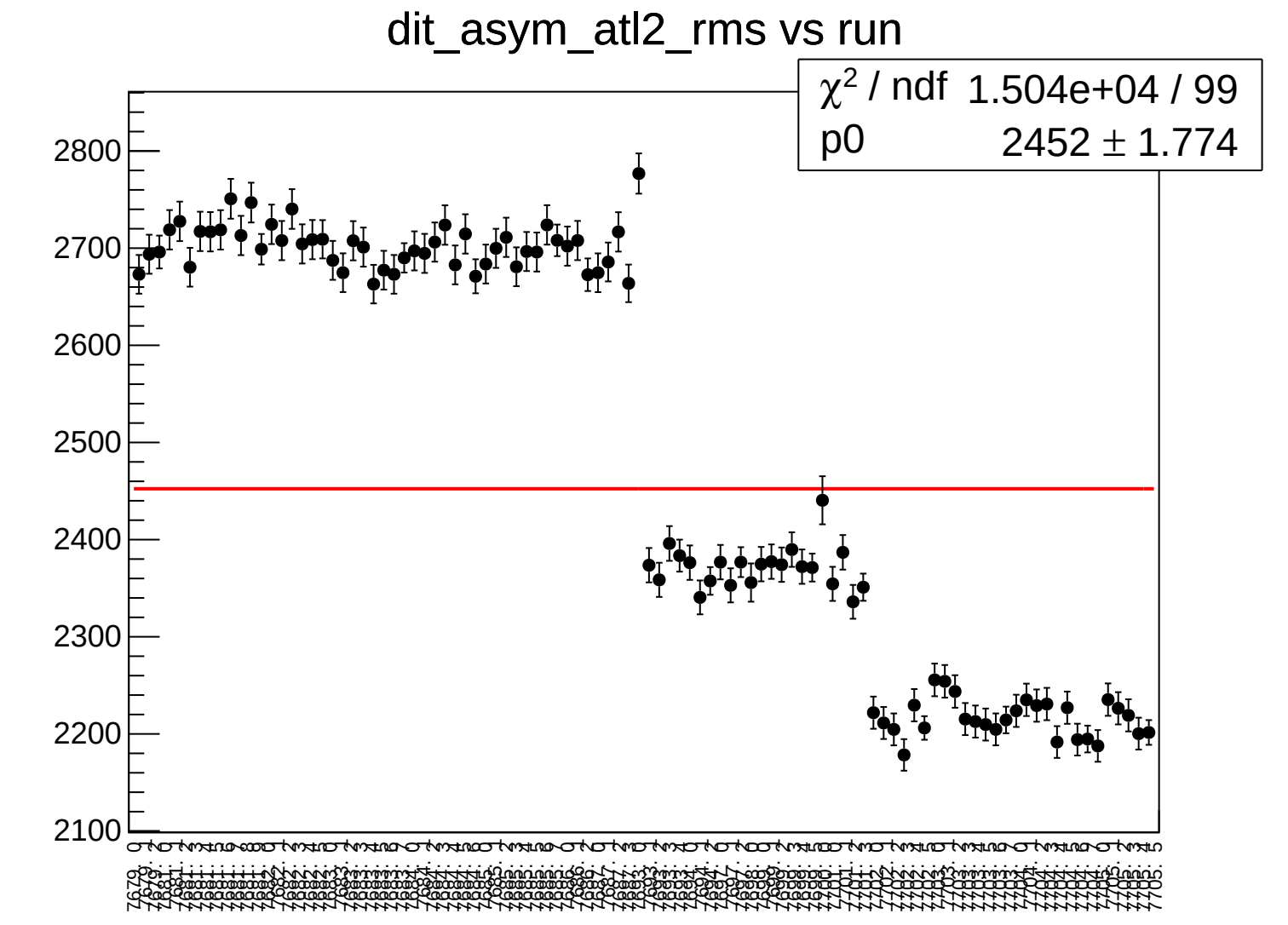

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 106.1 / 99
p0 1.901e+04 ± 9554
pull
Entries 100
Mean −295.5
Std Dev 0

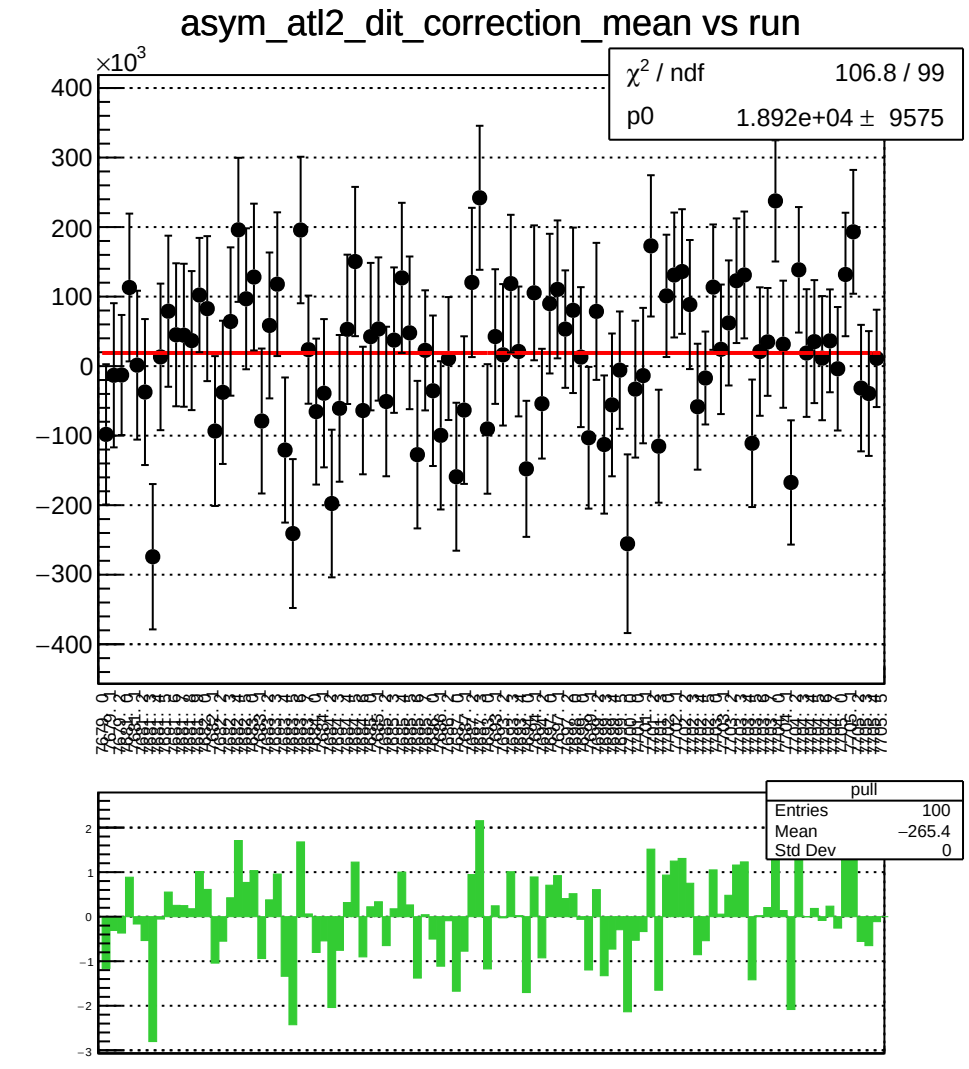

pull1D
Entries 100
Mean −0.01121
Std Dev 1.03

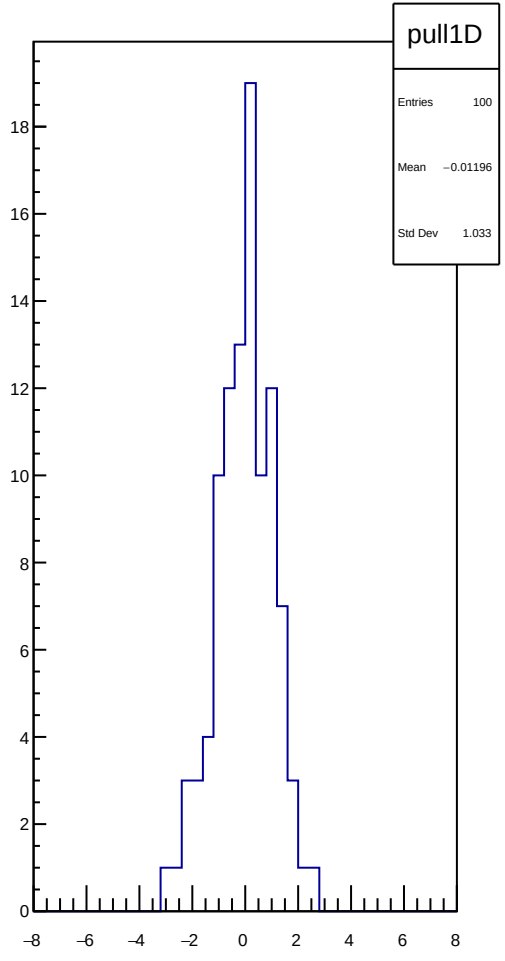

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 1.011e+04 / 99
p0 9349 ± 6.756
10500
10000
9500
9000
8500
8000

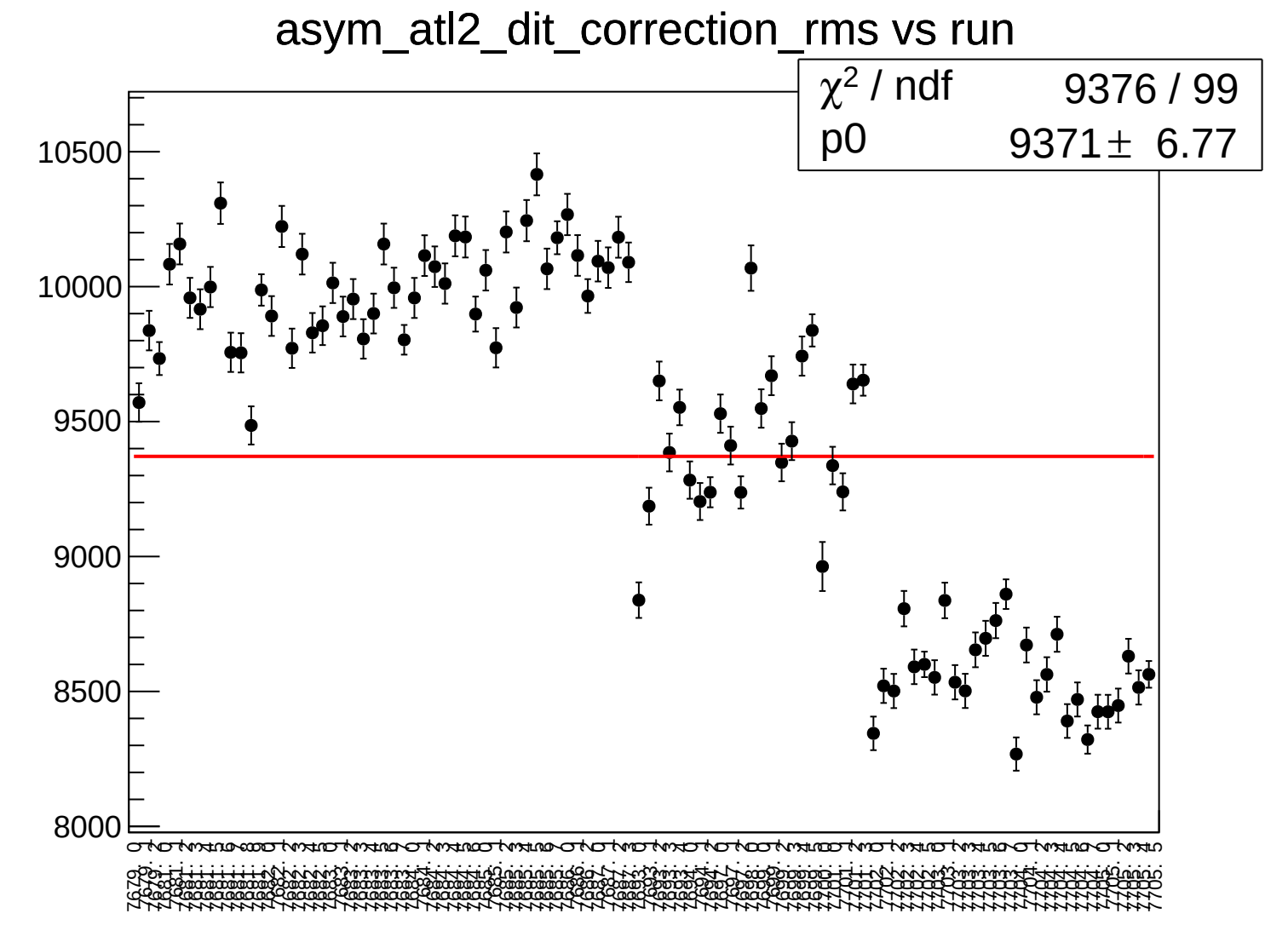

dit_asym_atl2_mean vs run
χ² / ndf 86.64 / 99
p0 −1110 ± 2509
pull
Entries 100
Mean 505.1
Std Dev 0

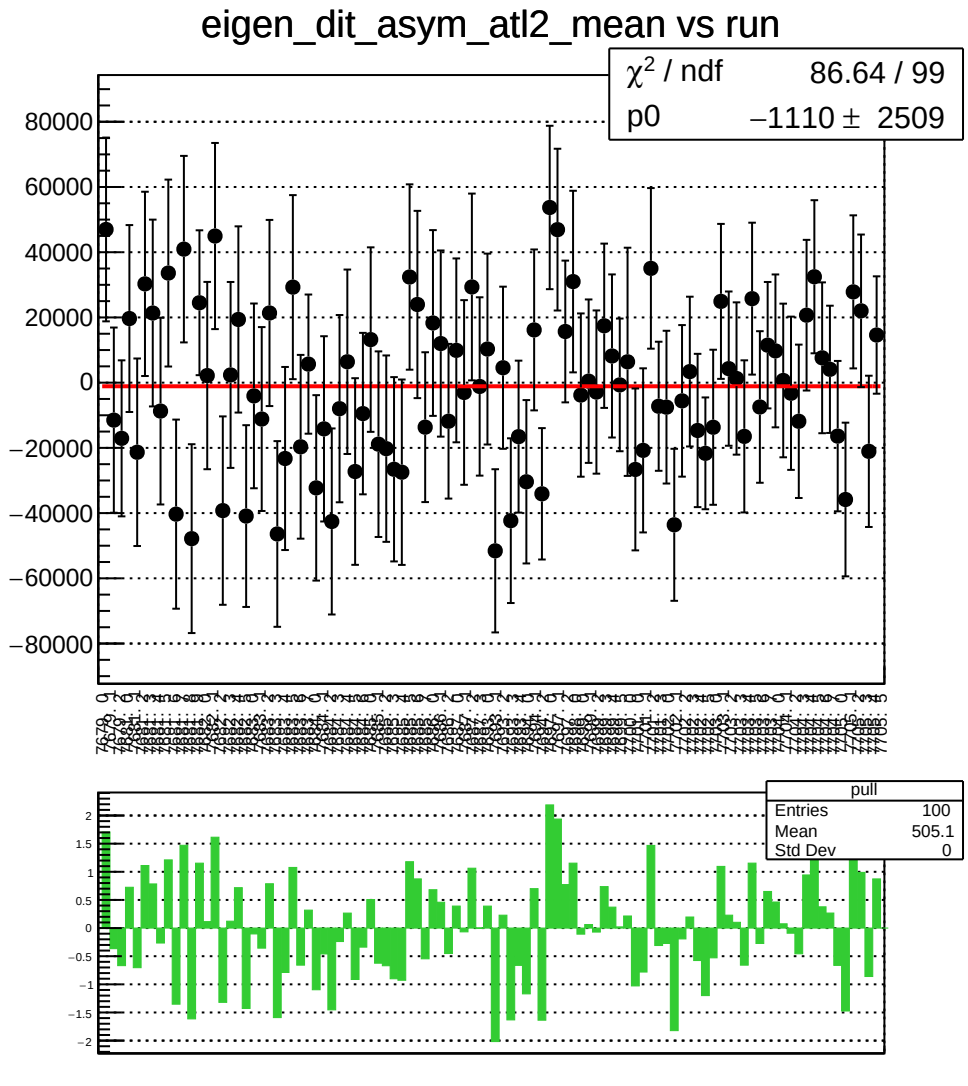

pull1D
Entries 100
Mean 0.00269
Std Dev 0.9308

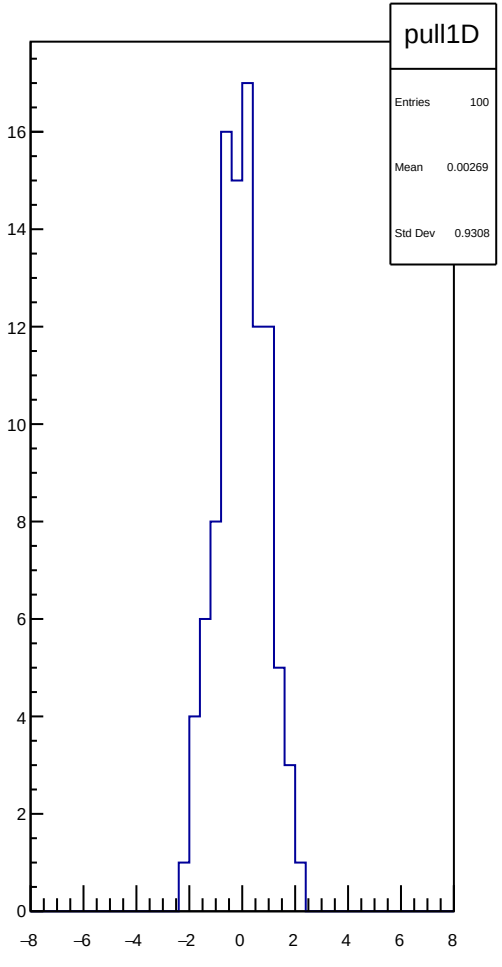

dit_asym_atl2_rms vs run
χ^2 / ndf 1.504e+04 / 99
p0 2452 ± 1.774
2800
2700
2600
2500
2400
2300
2200
2100

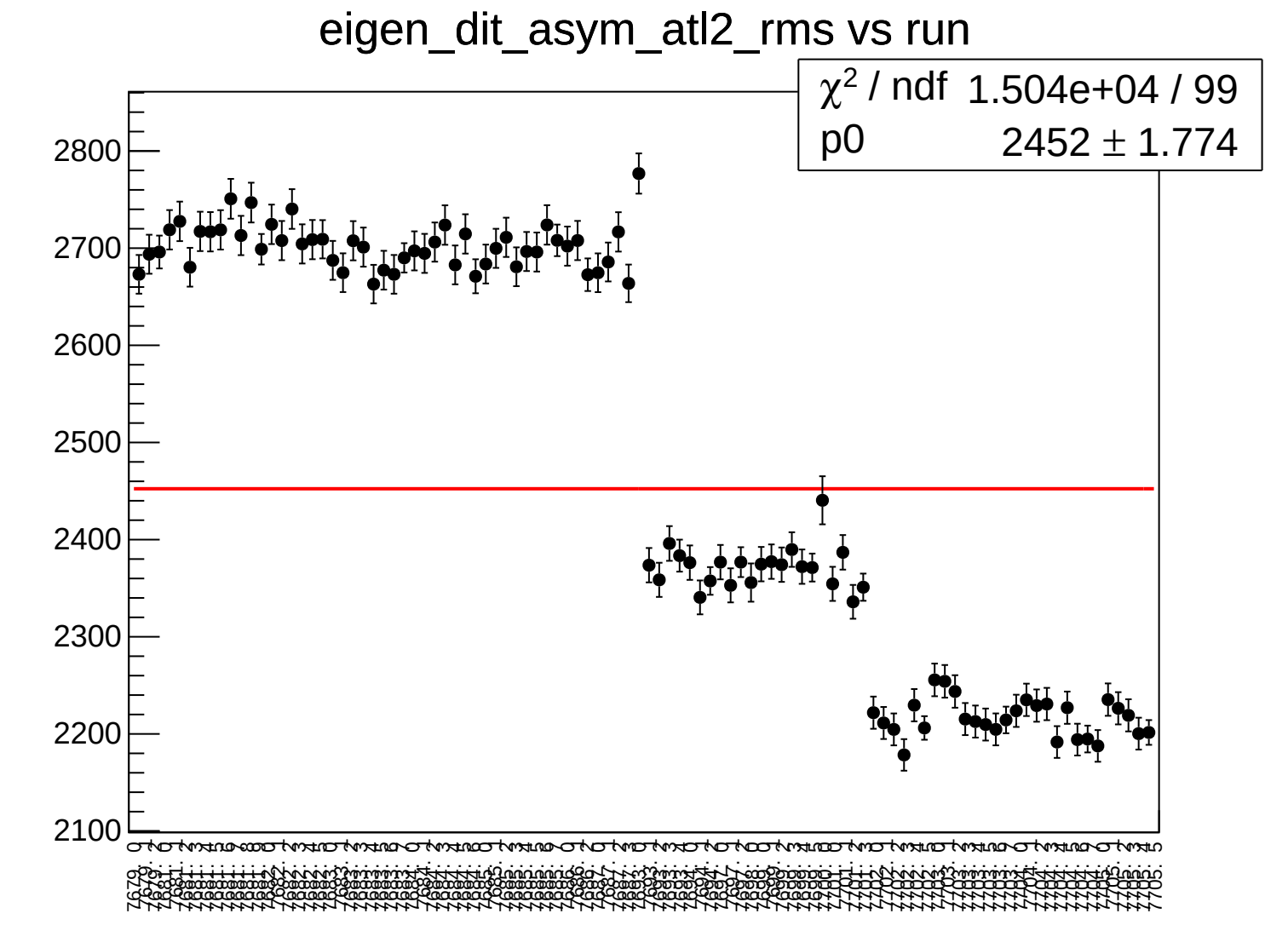

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 106.8 / 99
p0 1.892e+04 ± 9575
pull
Entries 100
Mean −265.4
Std Dev 0

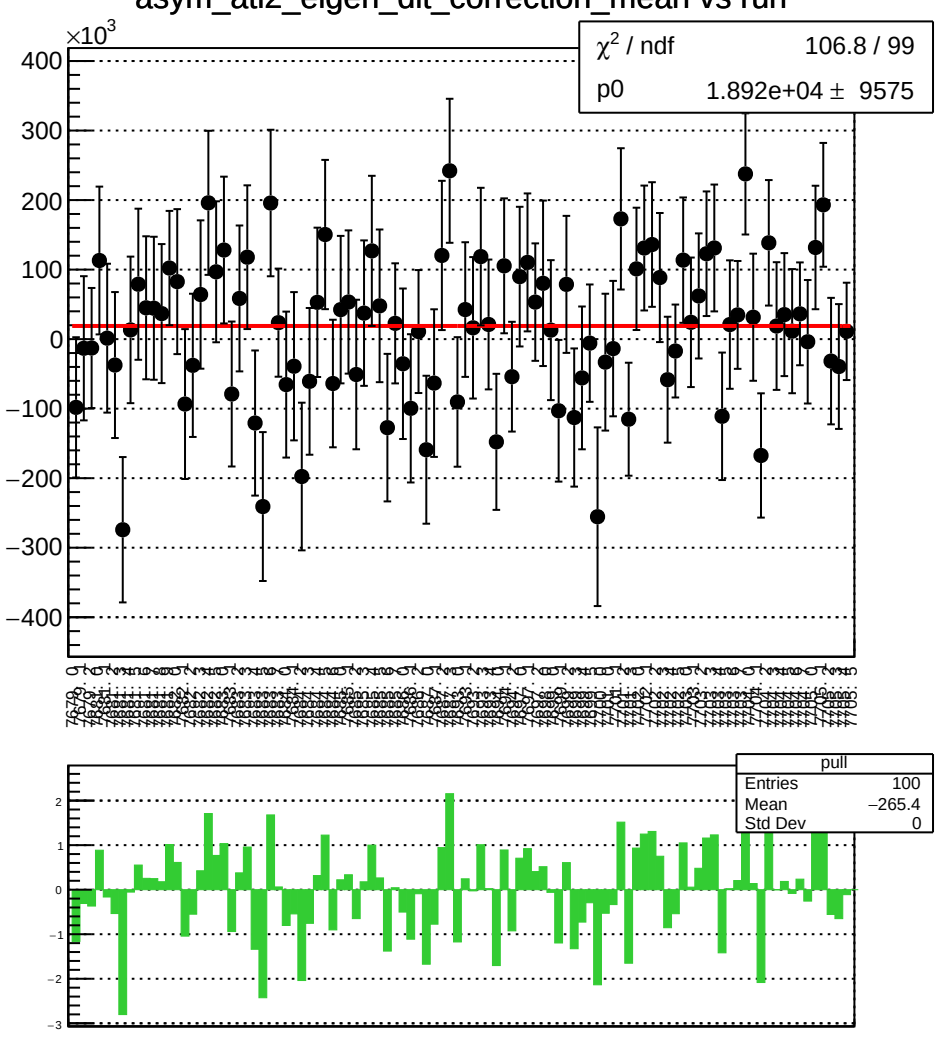

pull1D
Entries 100
Mean −0.01196
Std Dev 1.033

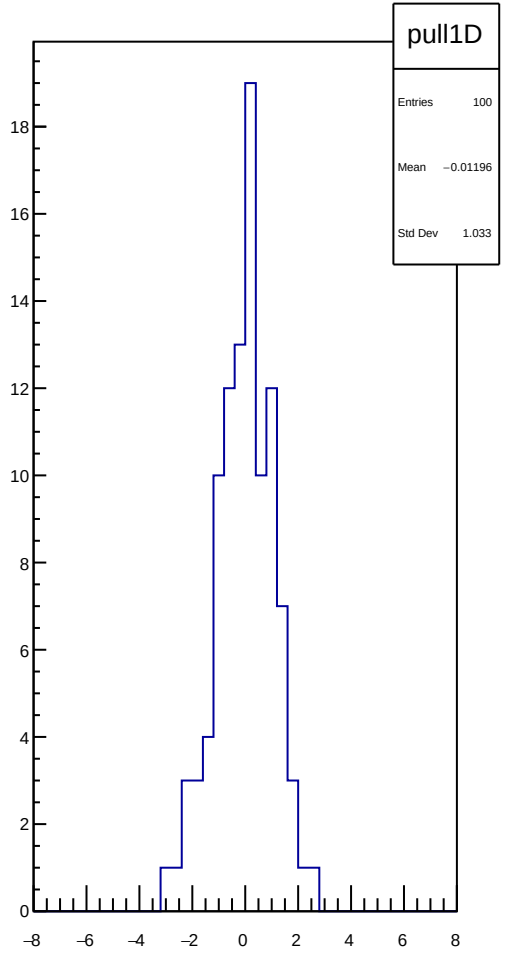

asym_atl2_dit_correction_rms vs run
χ² / ndf 9376 / 99
p0 9371 ± 6.77
10500
10000
9500
9000
8500
8000

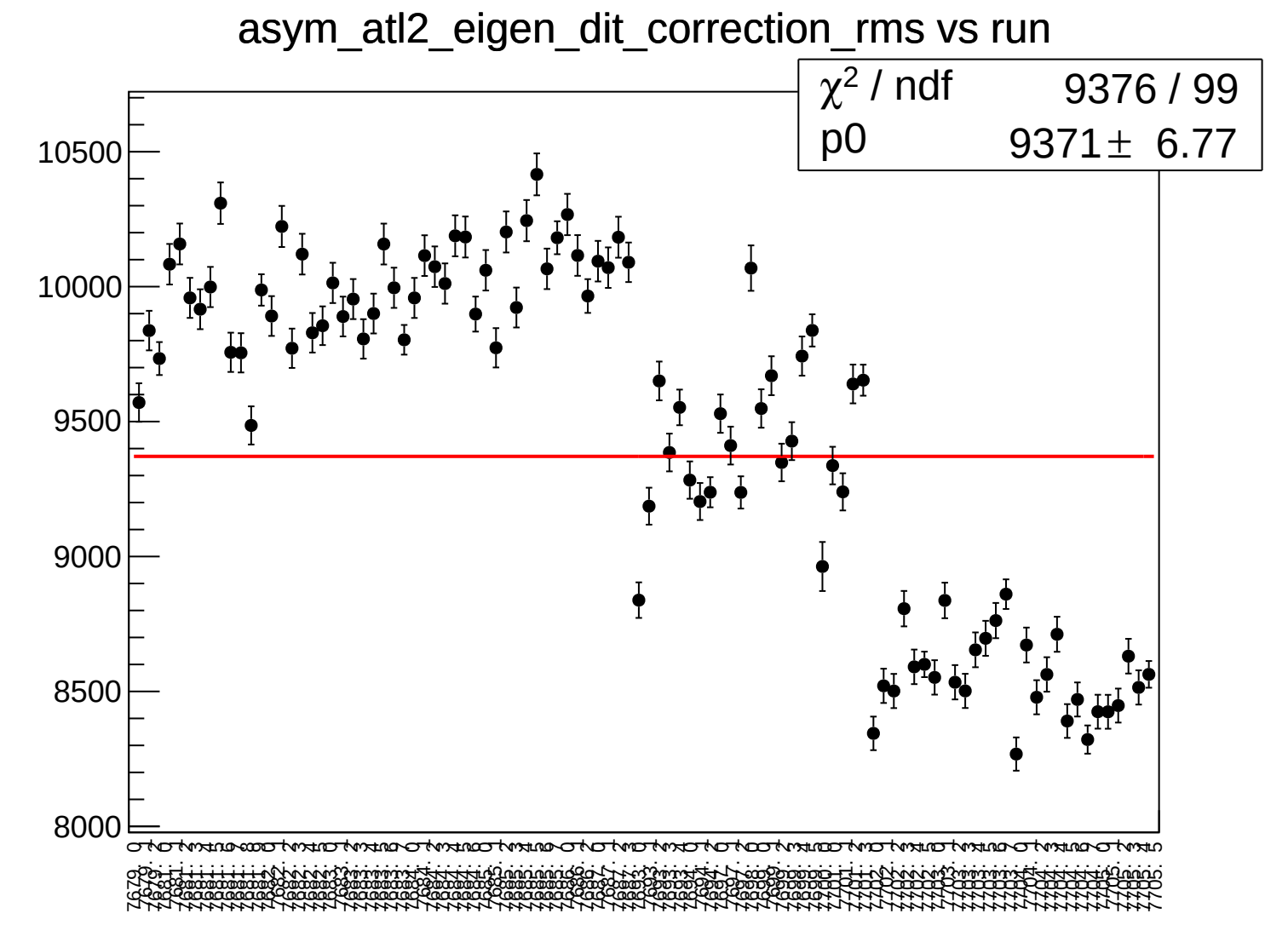

eigen_dit_asym_atl2_mean vs run
χ² / ndf 86.64 / 99
p0 −1110 ± 2509
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean 505.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

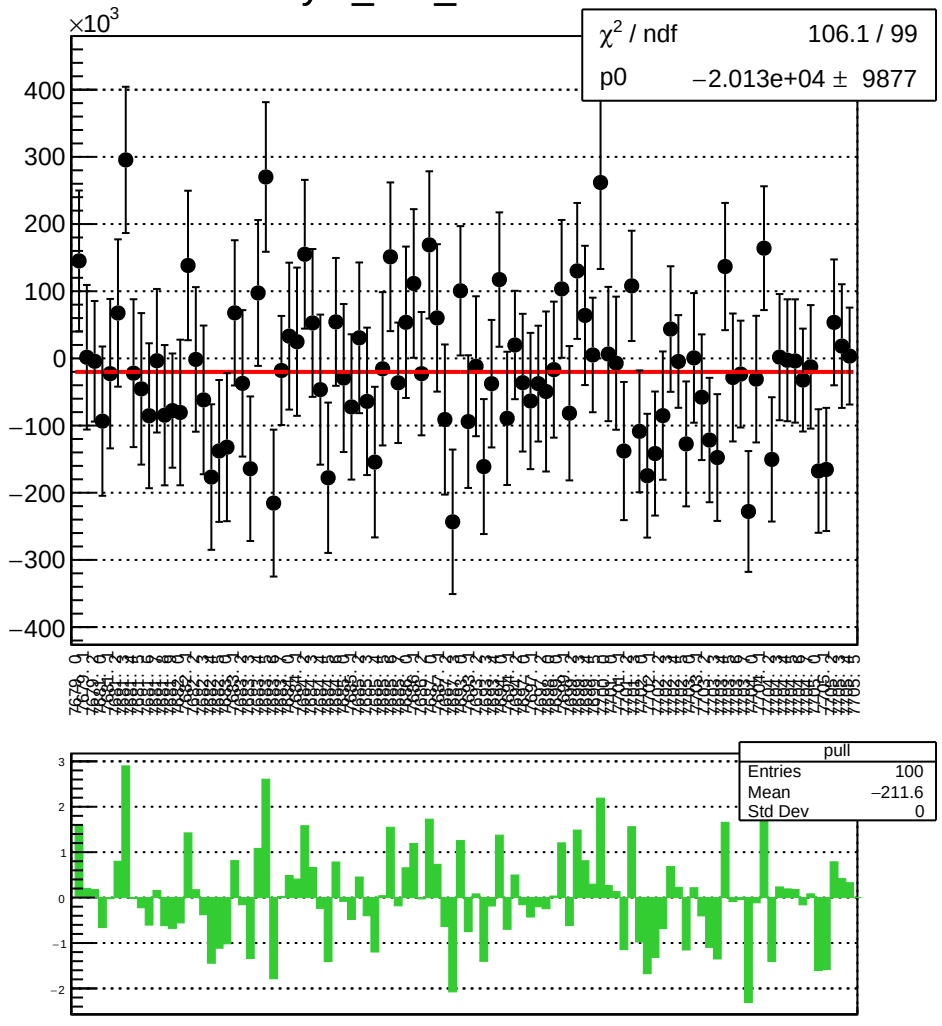

pull1D
Entries 100
Mean 0.00269
Std Dev 0.9308
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

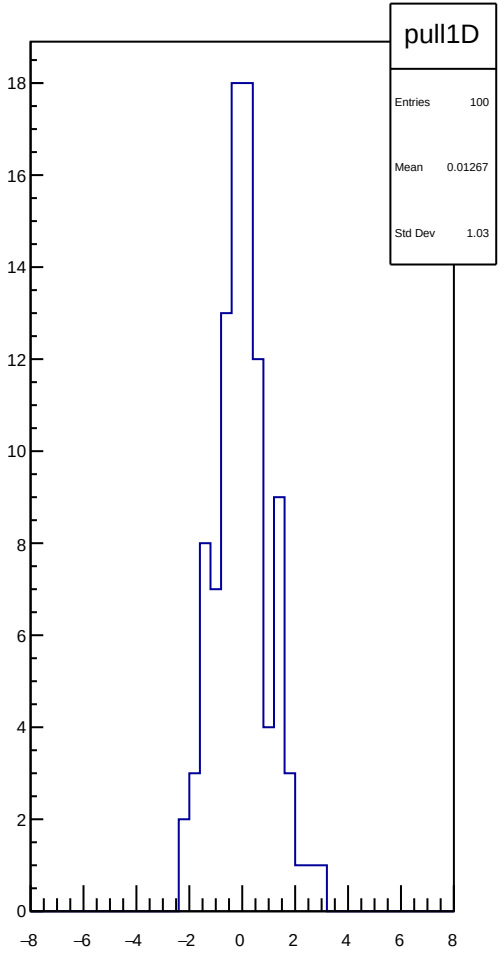

eigen_dit_asym_atl2_rms vs run
χ^2 / ndf 1.504e+04 / 99
p0 2452 ± 1.774
2800
2700
2600
2500
2400
2300
2200
2100

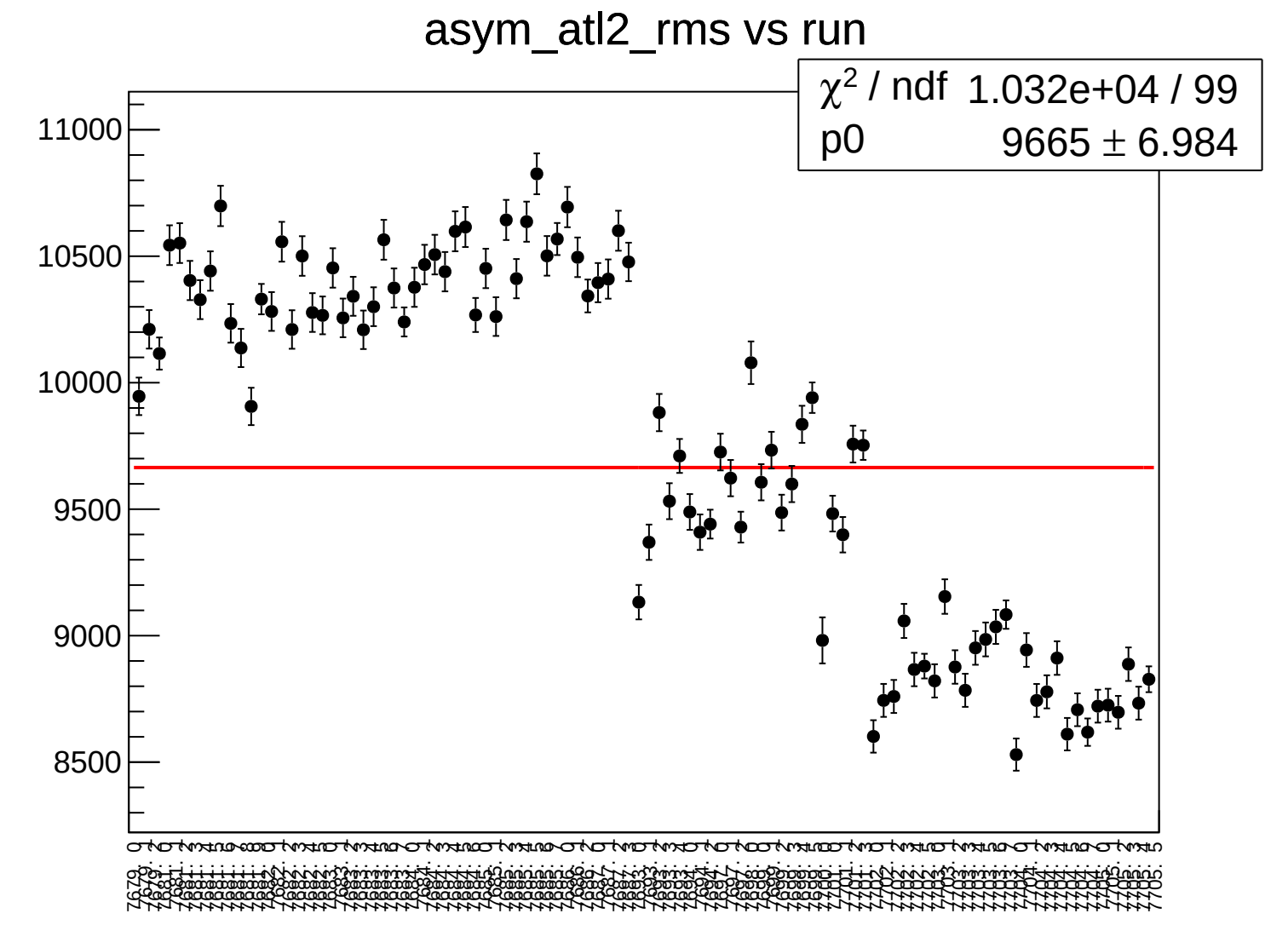

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 106.8 / 99
p0 1.892e+04 ± 9575
pull
Entries 100
Mean −265.4
Std Dev 0

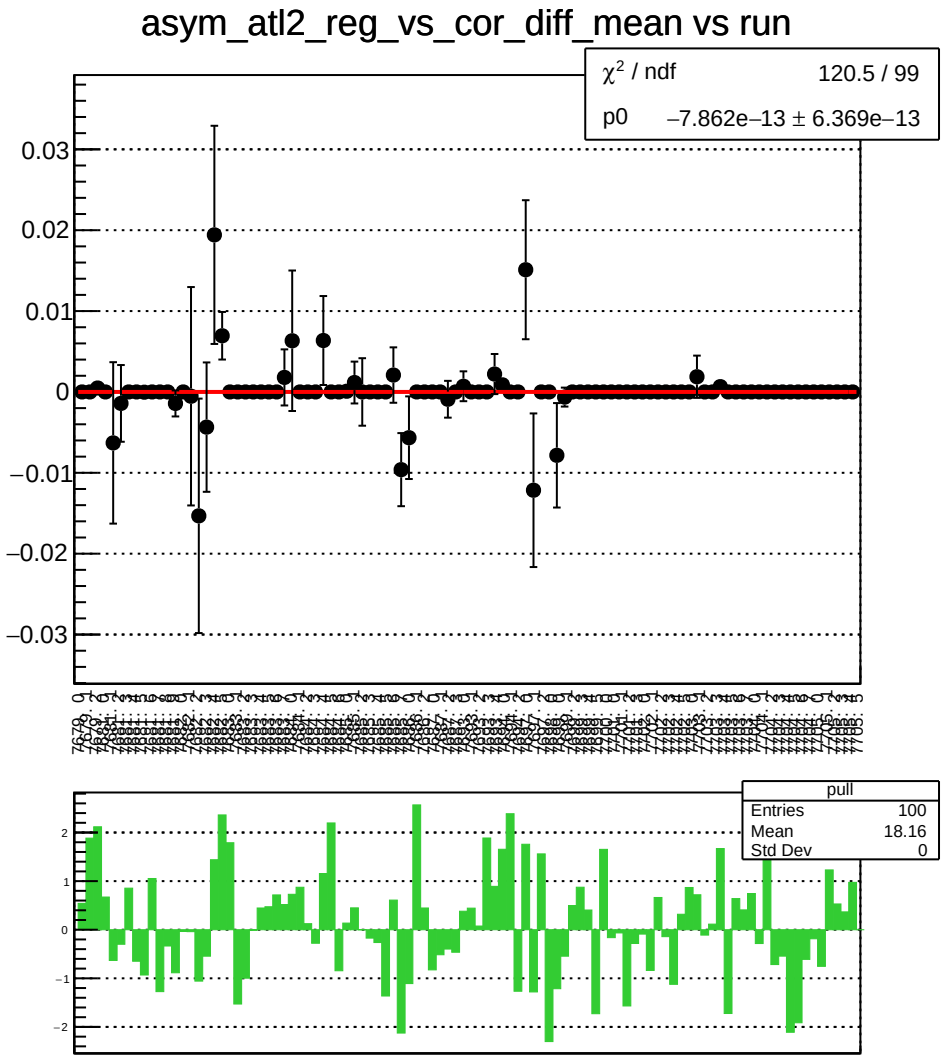

pull1D
Entries 100
Mean −0.01196
Std Dev 1.033

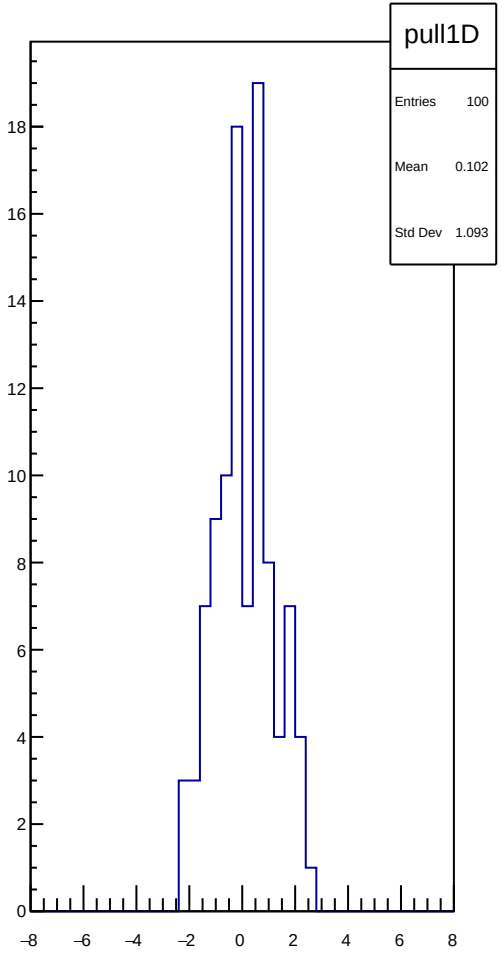

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 9376 / 99
p0 9371 ± 6.77
10500
10000
9500
9000
8500
8000

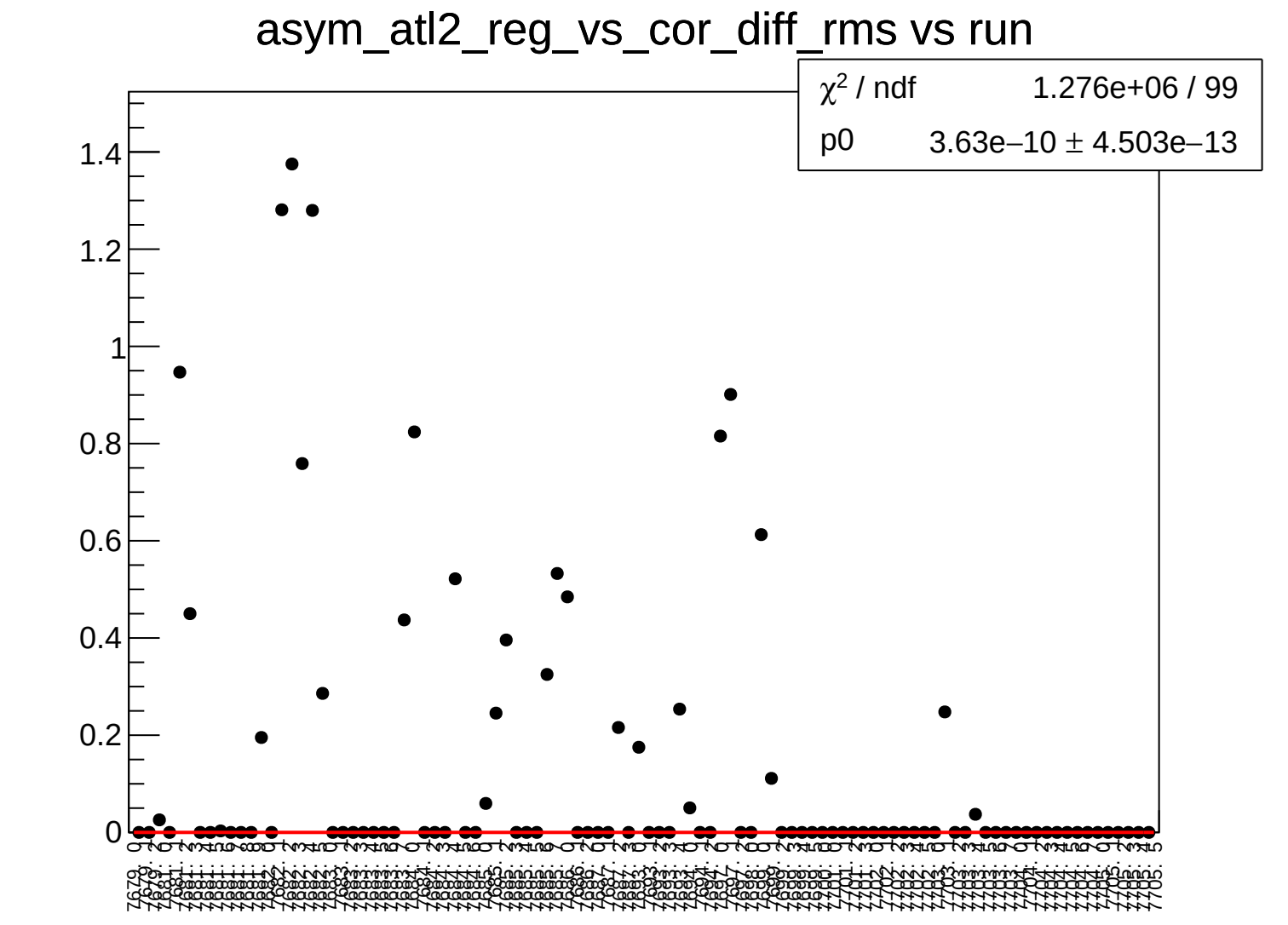

asym_atl2_mean vs run
×10^3
χ² / ndf 106.1 / 99
p0 −2.013e+04 ± 9877
pull
Entries 100
Mean −211.6
Std Dev 0

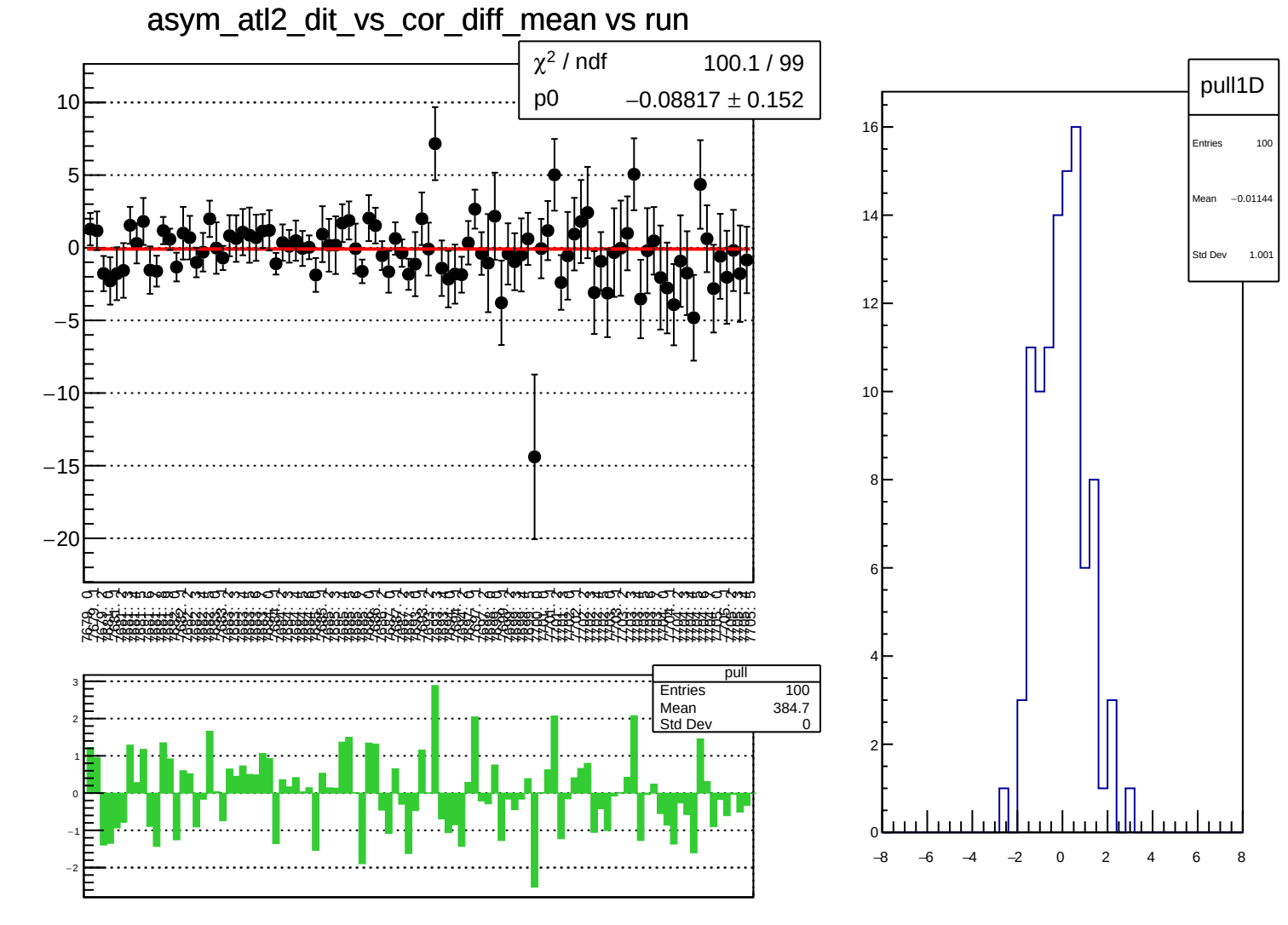

pull1D
Entries 100
Mean 0.01267
Std Dev 1.03

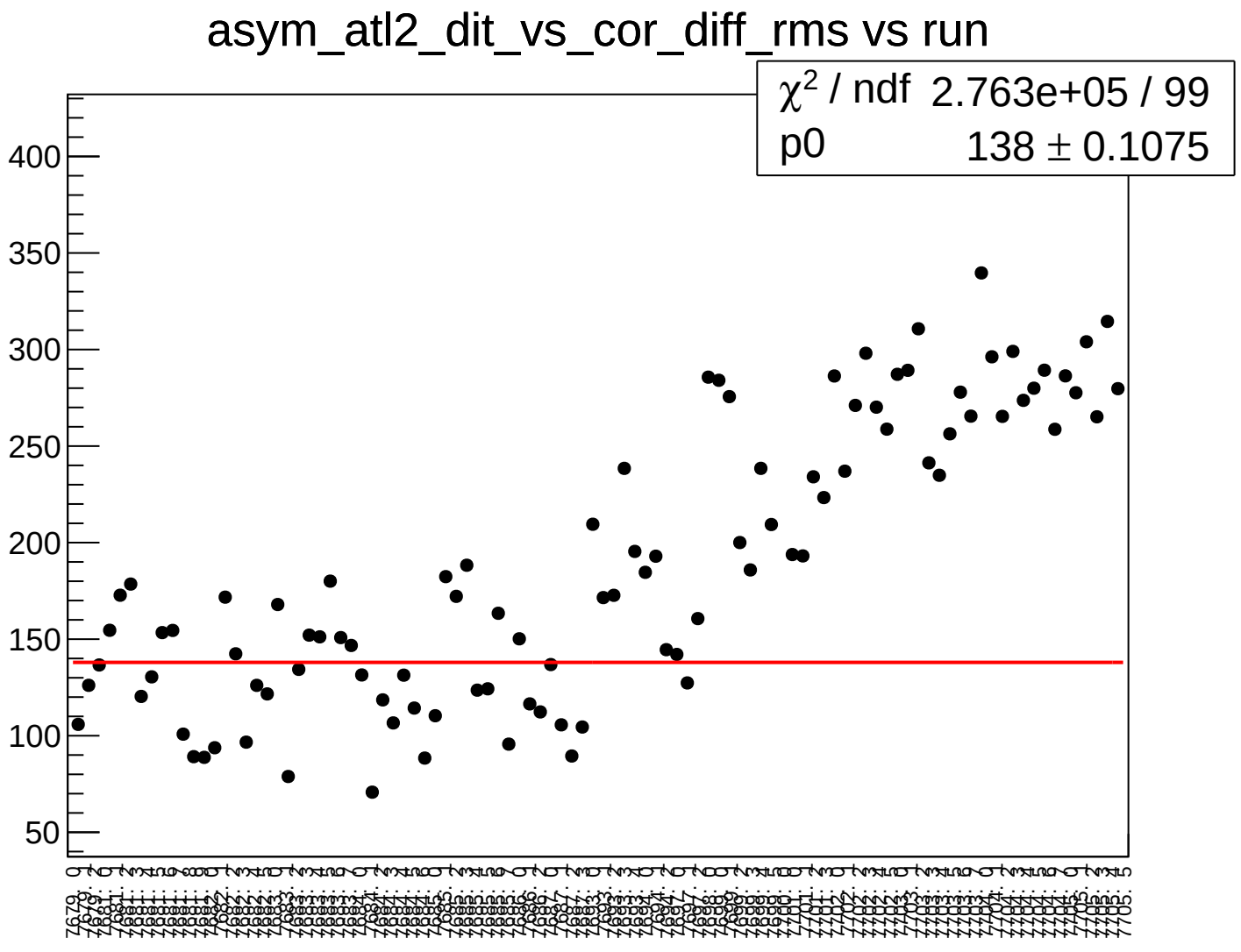

asym_atl2_rms vs run
χ² / ndf 1.032e+04 / 99
p0 9665 ± 6.984
11000
10500
10000
9500
9000
8500

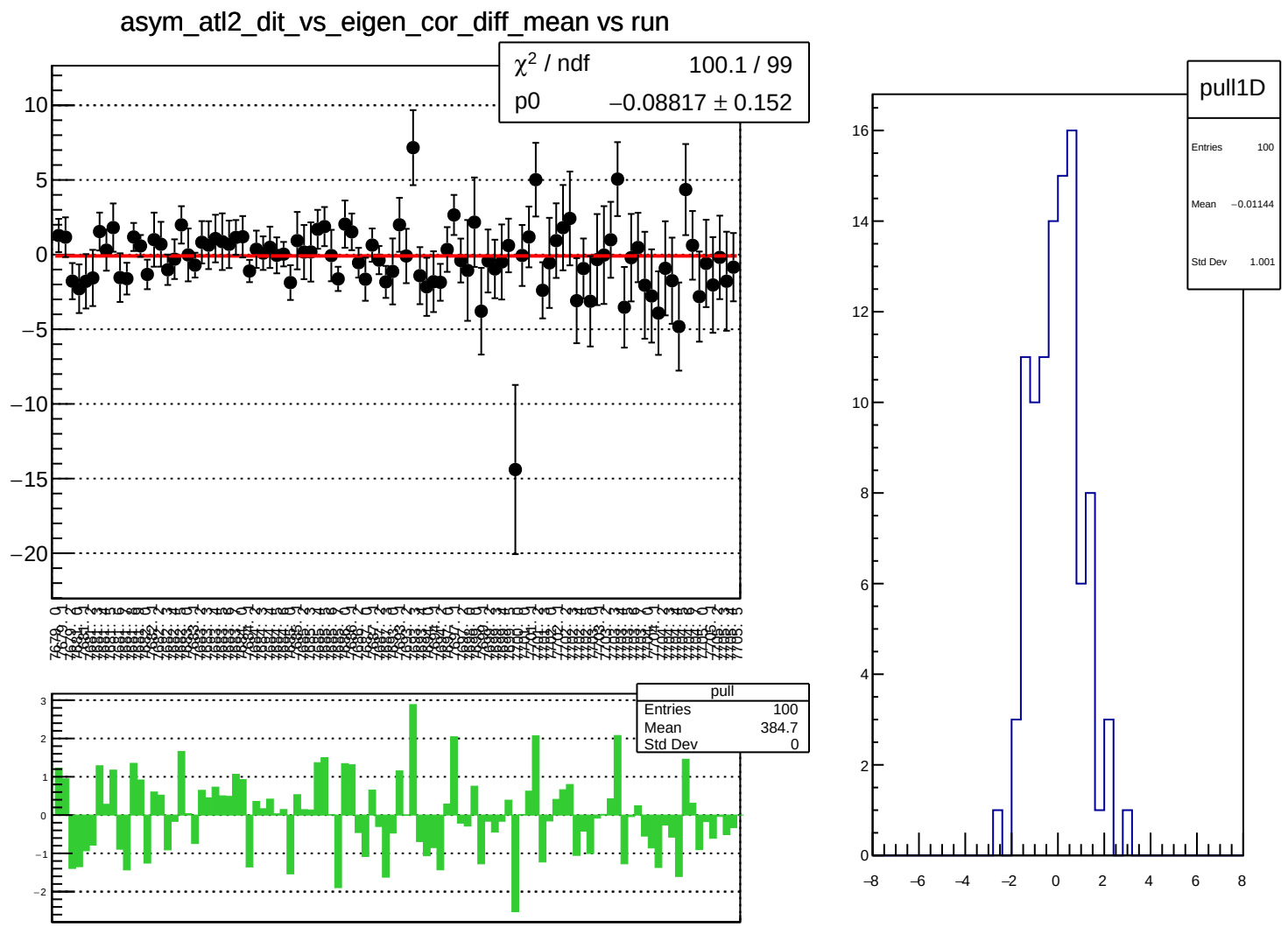

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 120.5 / 99
p0 −7.862e−13 ± 6.369e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 100
Mean 18.16
Std Dev 0
2
1
0
−1
−2

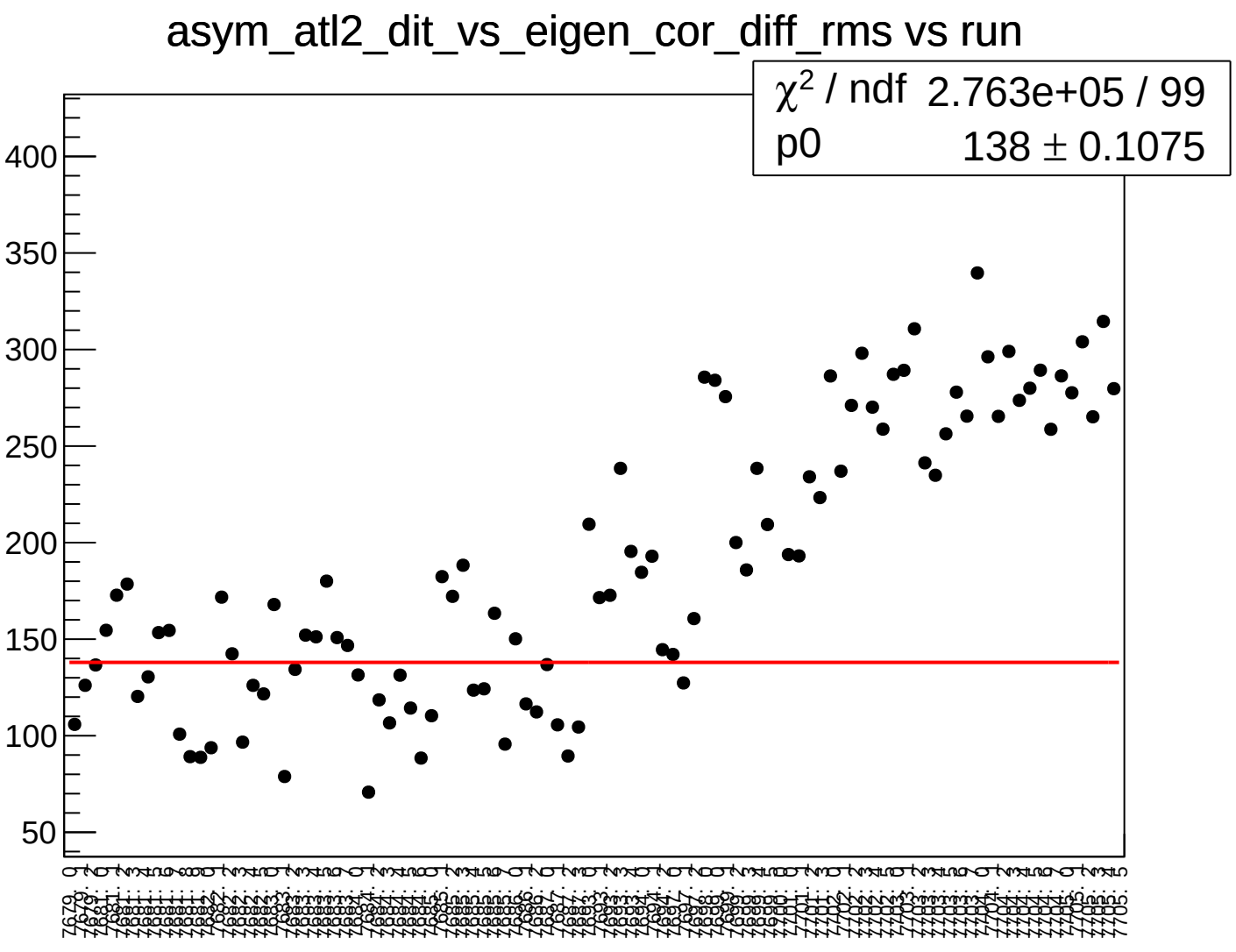

pull1D
Entries 100
Mean 0.102
Std Dev 1.093
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

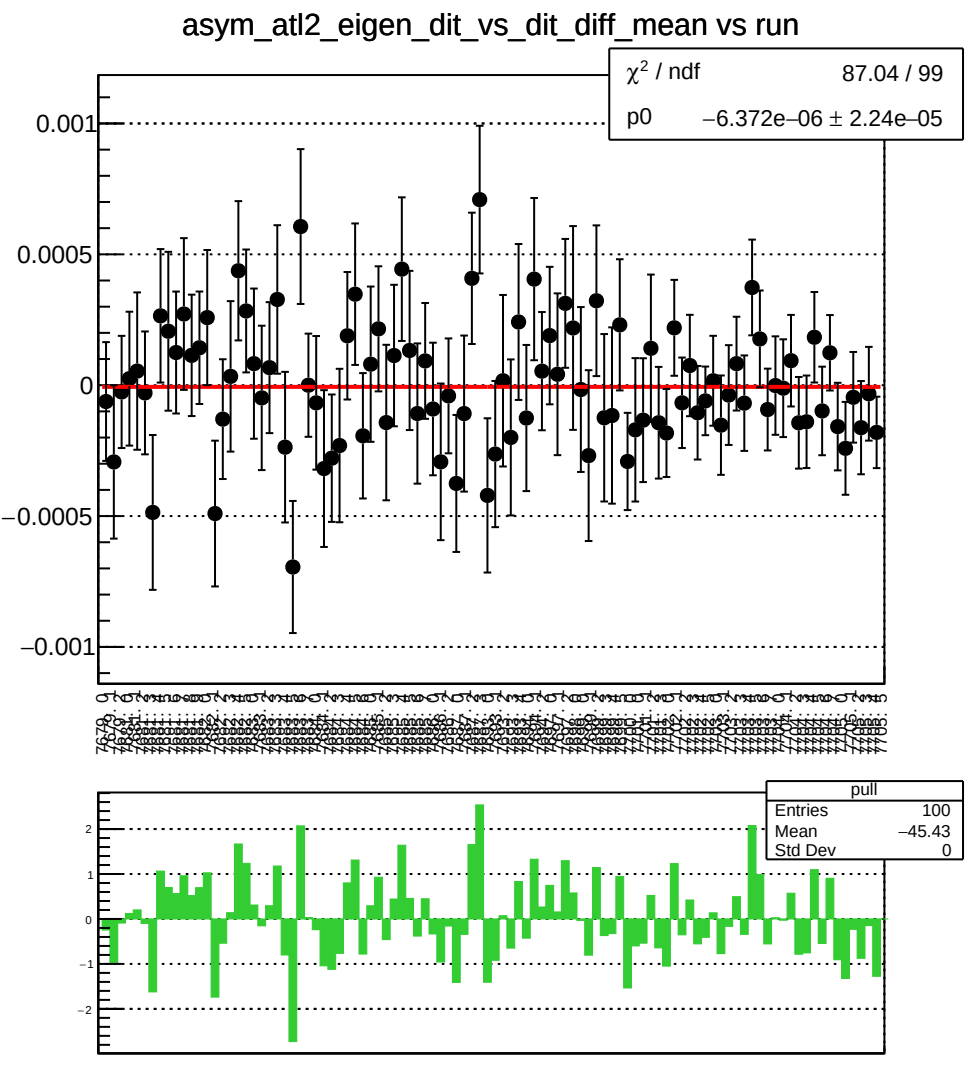

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.276e+06 / 99
p0 3.63e−10 ± 4.503e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

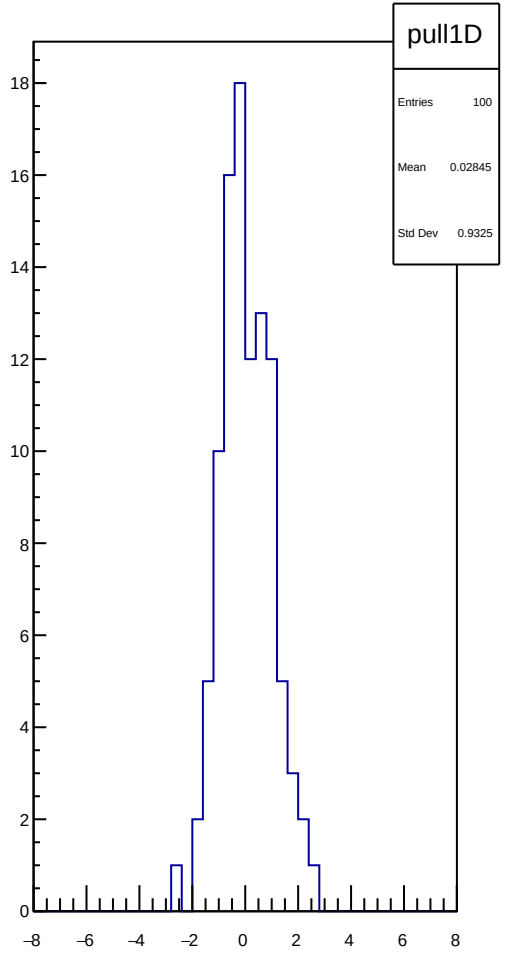

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 100.1 / 99
p0 −0.08817 ± 0.152
pull
Entries 100
Mean 384.7
Std Dev 0
pull1D
Entries 100
Mean −0.01144
Std Dev 1.001

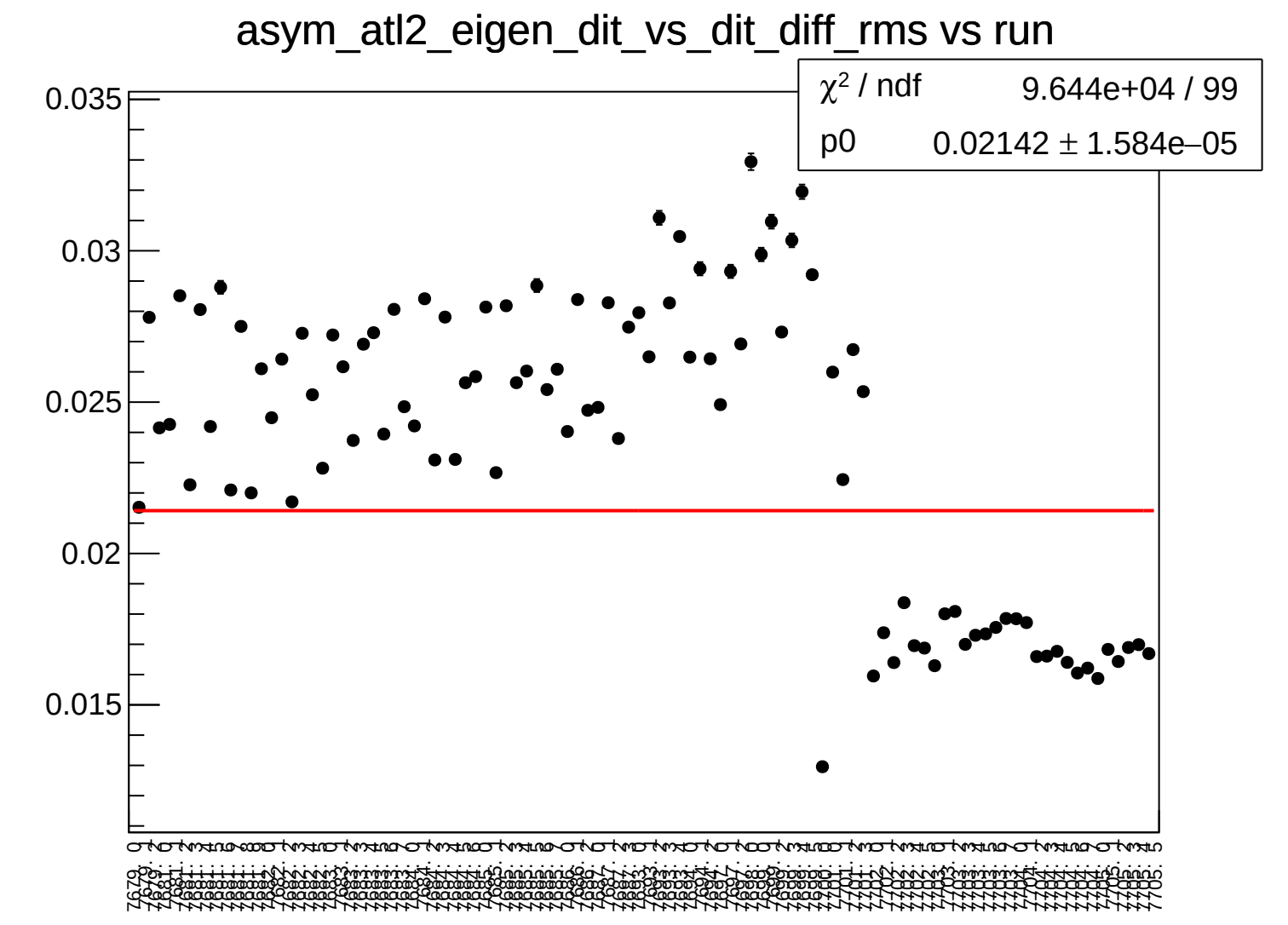

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 2.763e+05 / 99
p0 138 ± 0.1075
400
350
300
250
200
150
100
50

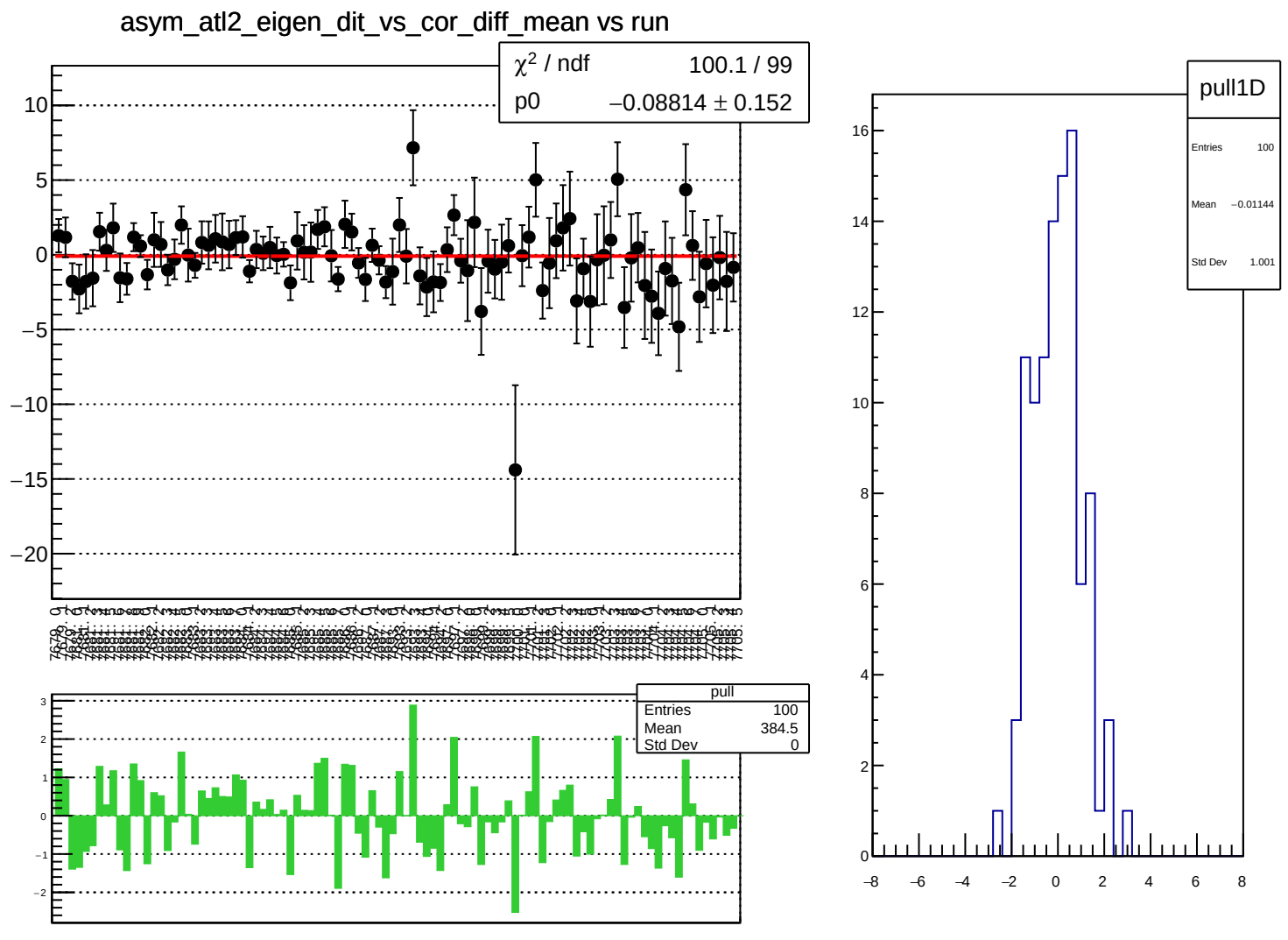

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.1 / 99
p0 −0.08817 ± 0.152
pull
Entries 100
Mean 384.7
Std Dev 0
pull1D
Entries 100
Mean −0.01144
Std Dev 1.001

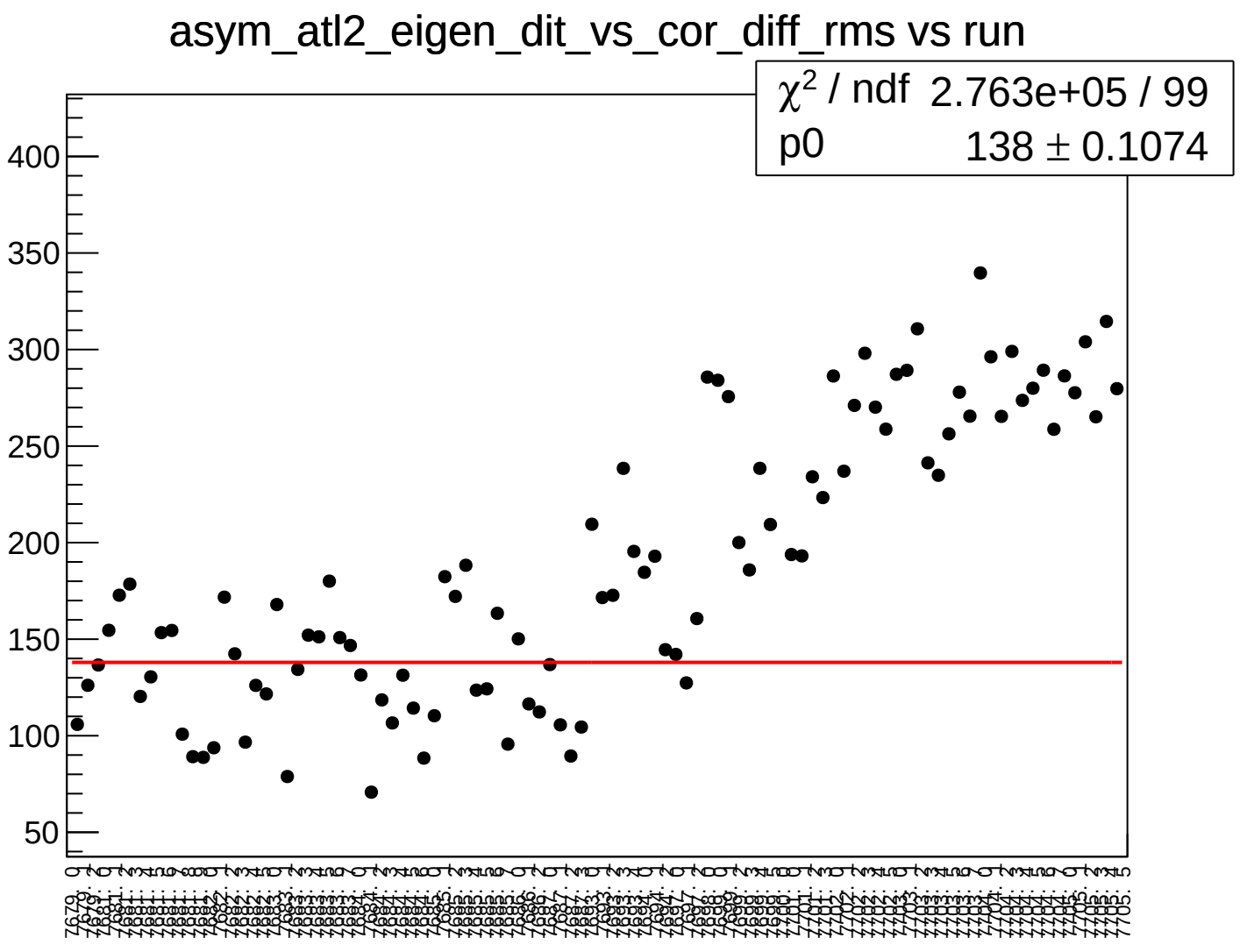

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.763e+05 / 99
p0 138 ± 0.1075
400
350
300
250
200
150
100
50

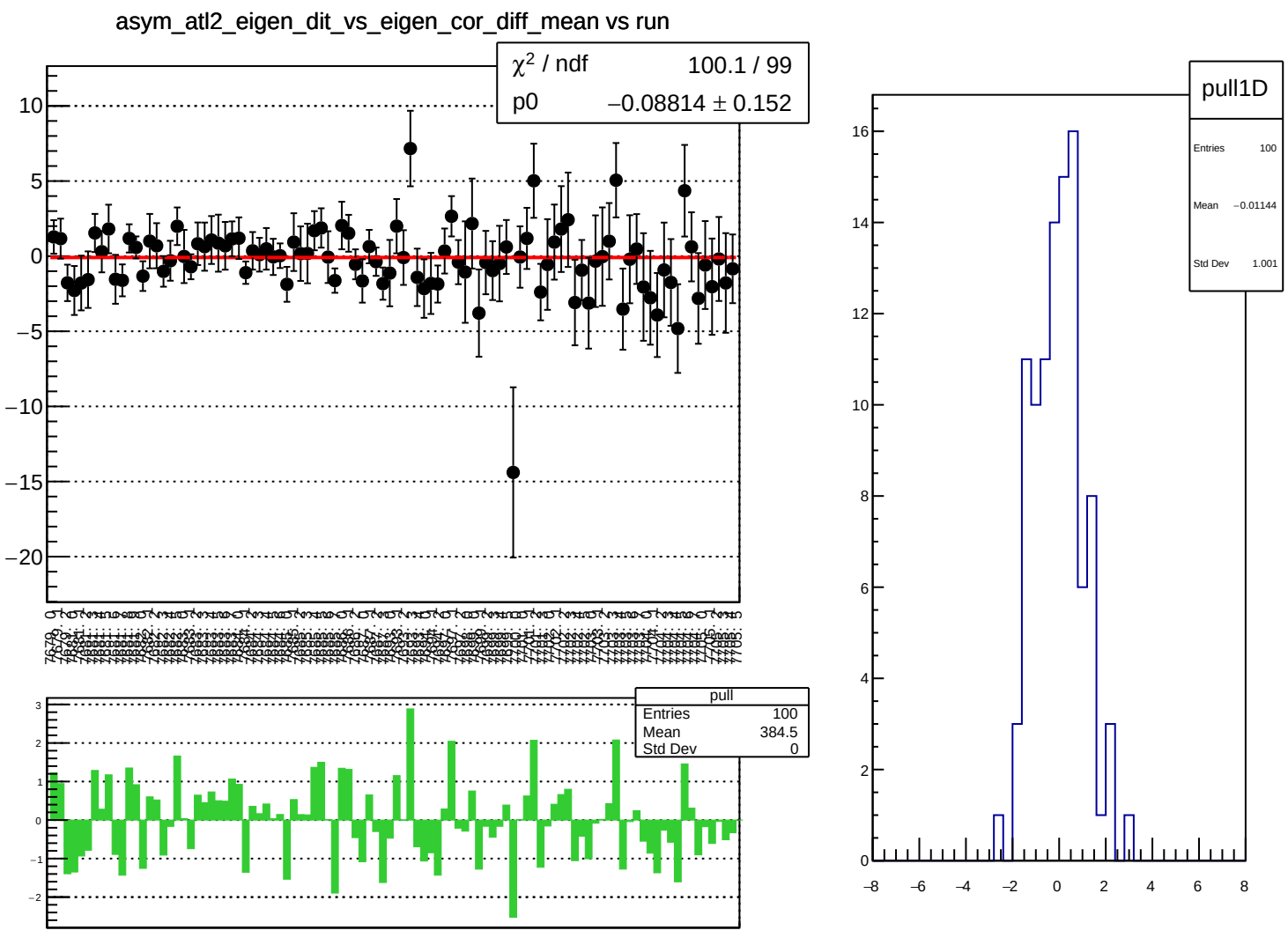

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 87.04 / 99
p0 −6.372e−06 ± 2.24e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 100
Mean −45.43
Std Dev 0
2
1
0
−1
−2

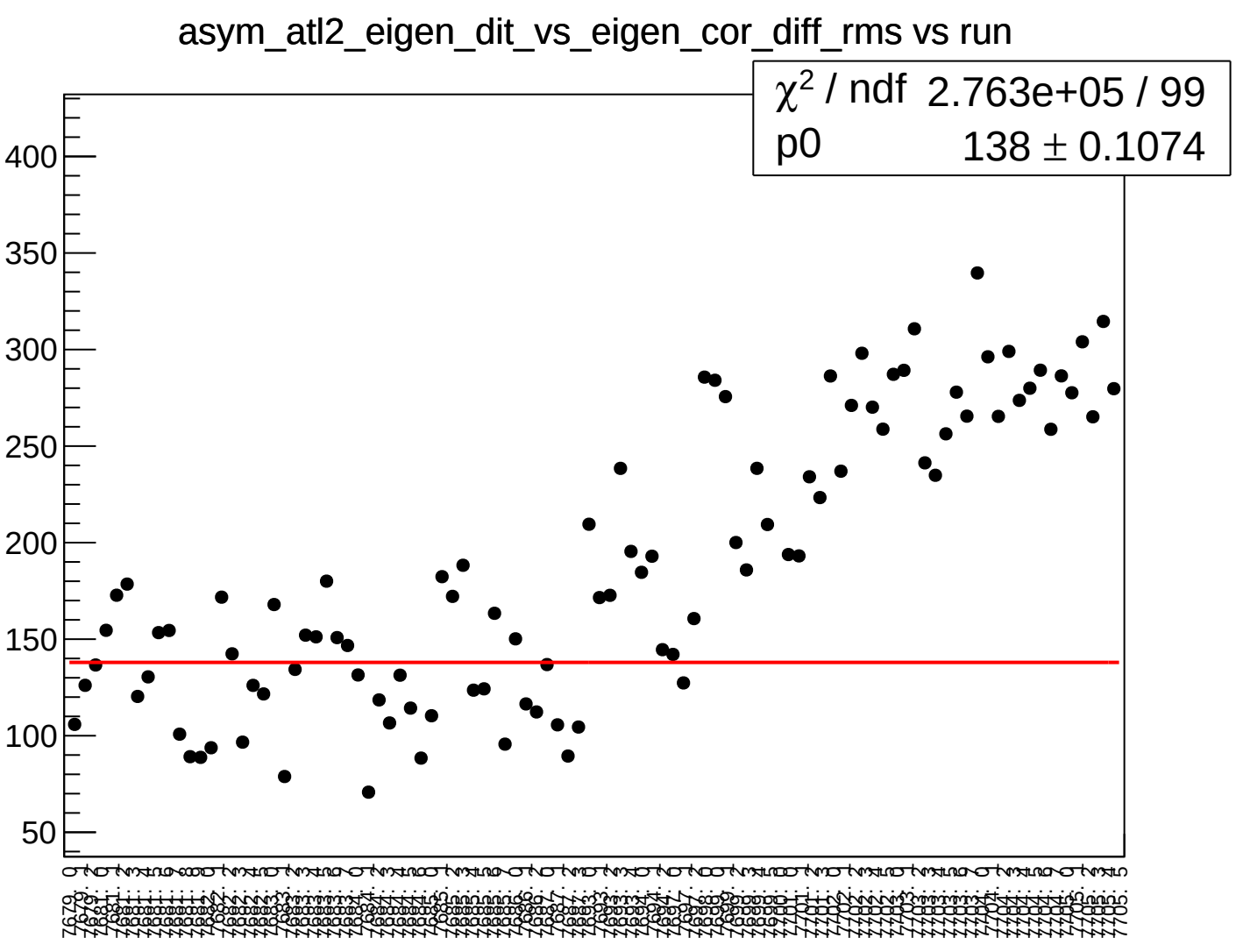

pull1D
Entries 100
Mean 0.02845
Std Dev 0.9325
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

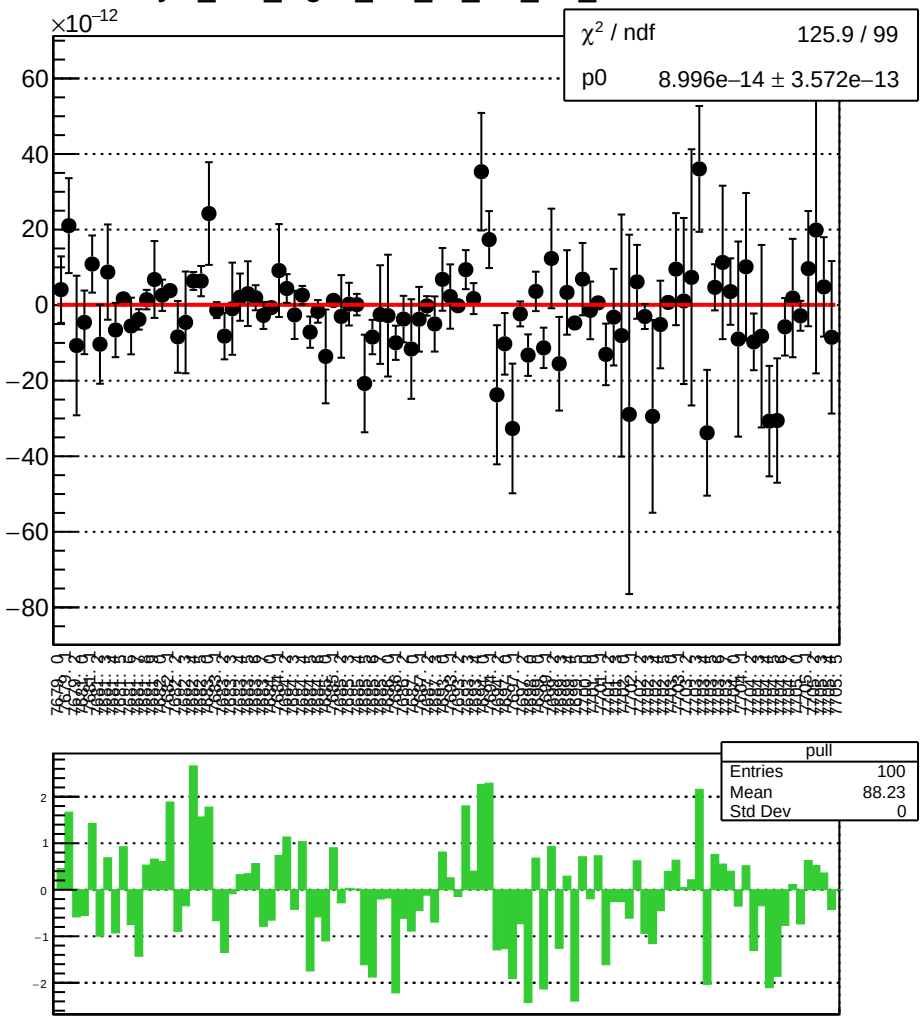

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.644e+04 / 99
p0 0.02142 ± 1.584e−05
0.035
0.03
0.025
0.02
0.015

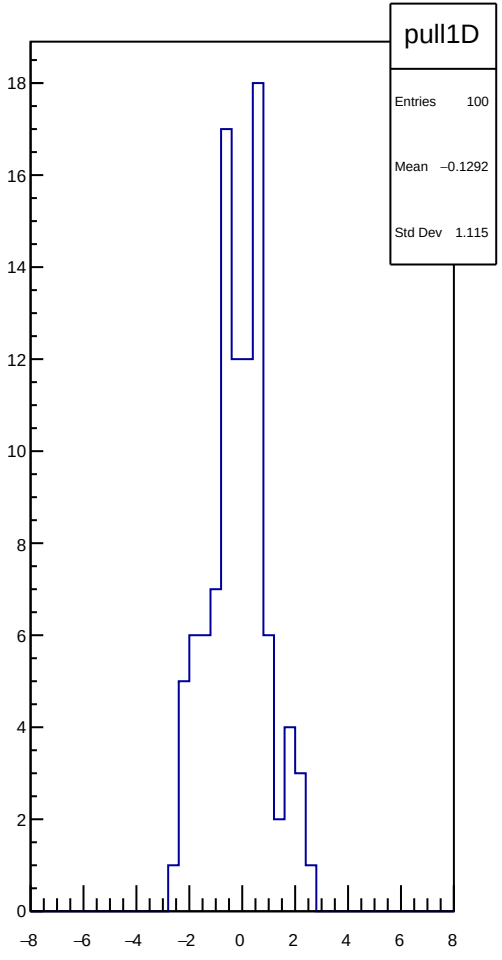

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.1 / 99
p0 −0.08814 ± 0.152
pull
Entries 100
Mean 384.5
Std Dev 0
pull1D
Entries 100
Mean −0.01144
Std Dev 1.001

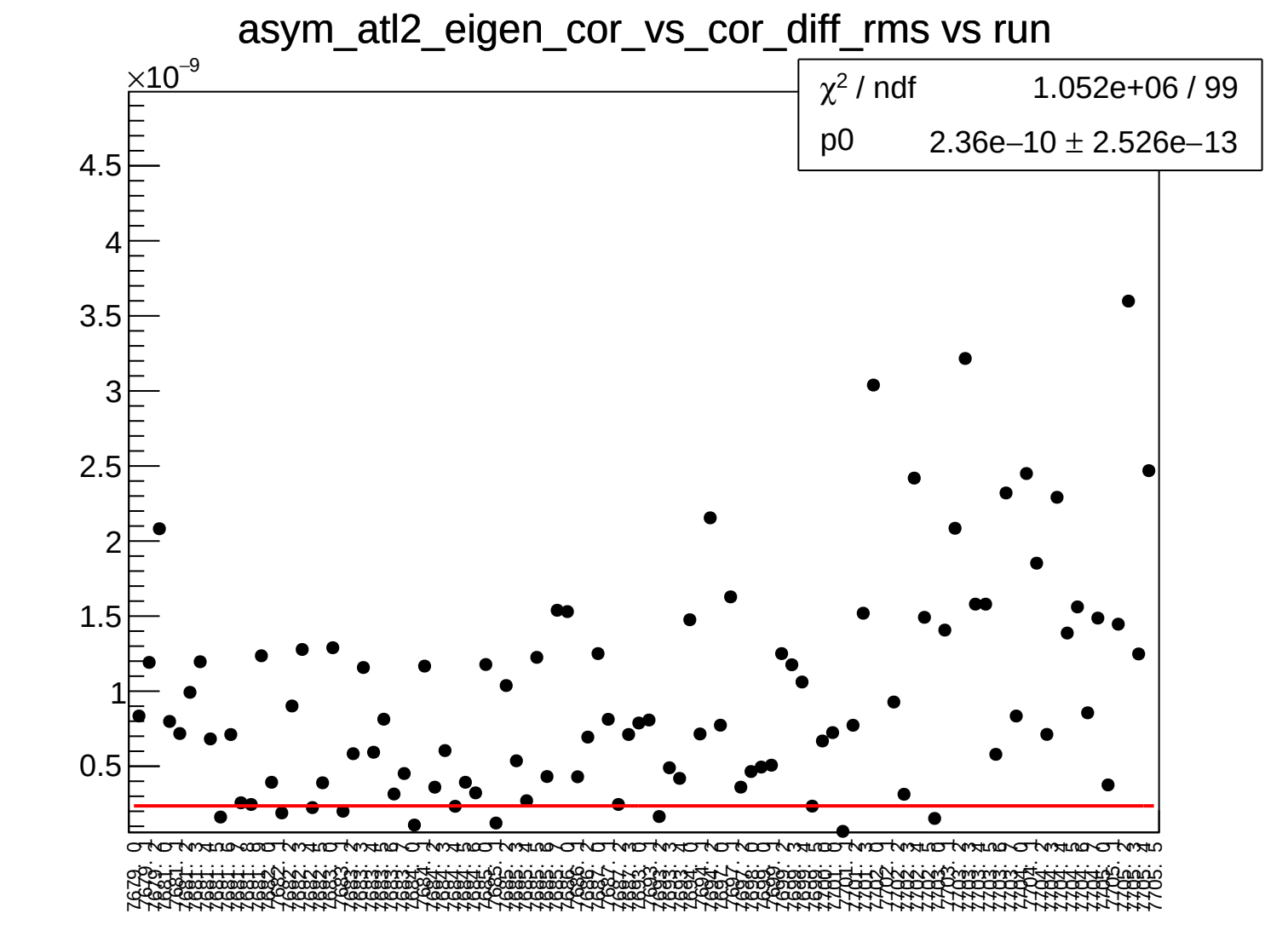

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.763e+05 / 99
p0 138 ± 0.1074
400
350
300
250
200
150
100
50

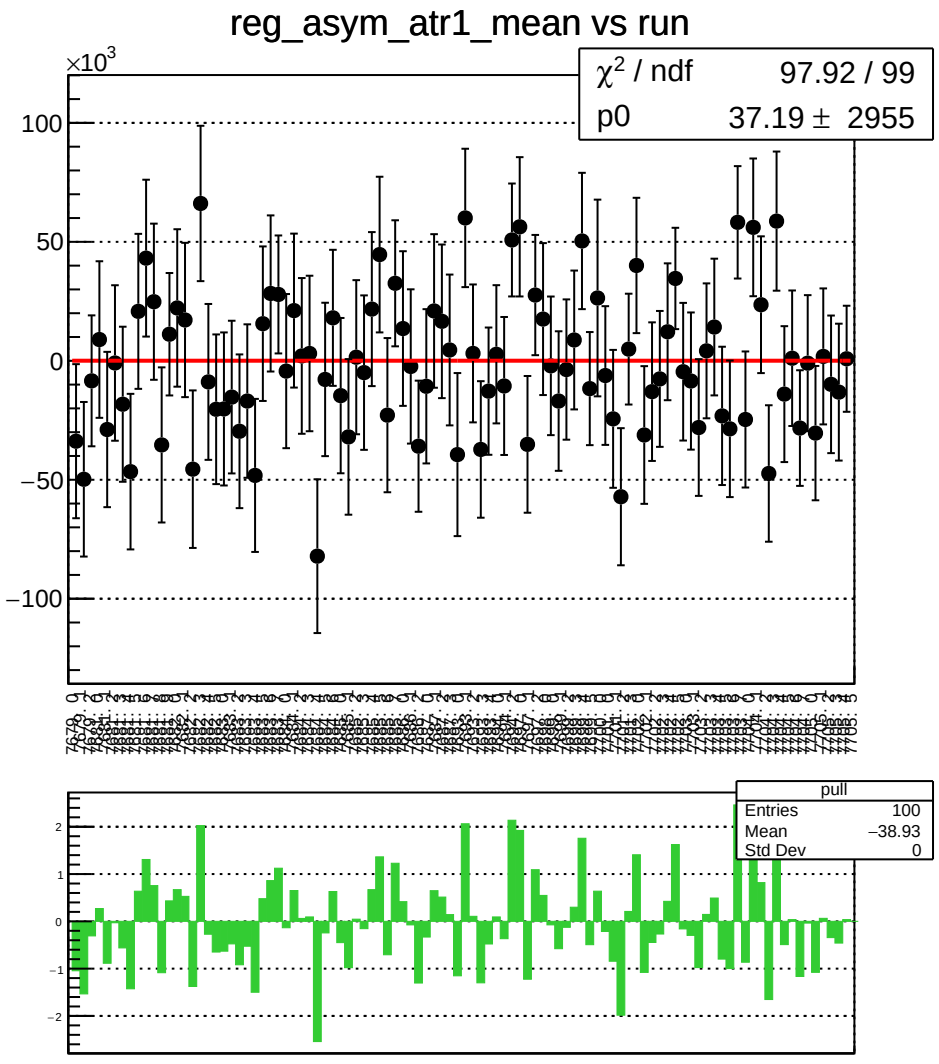

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.1 / 99
p0 −0.08814 ± 0.152
pull
Entries 100
Mean 384.5
Std Dev 0
pull1D
Entries 100
Mean −0.01144
Std Dev 1.001

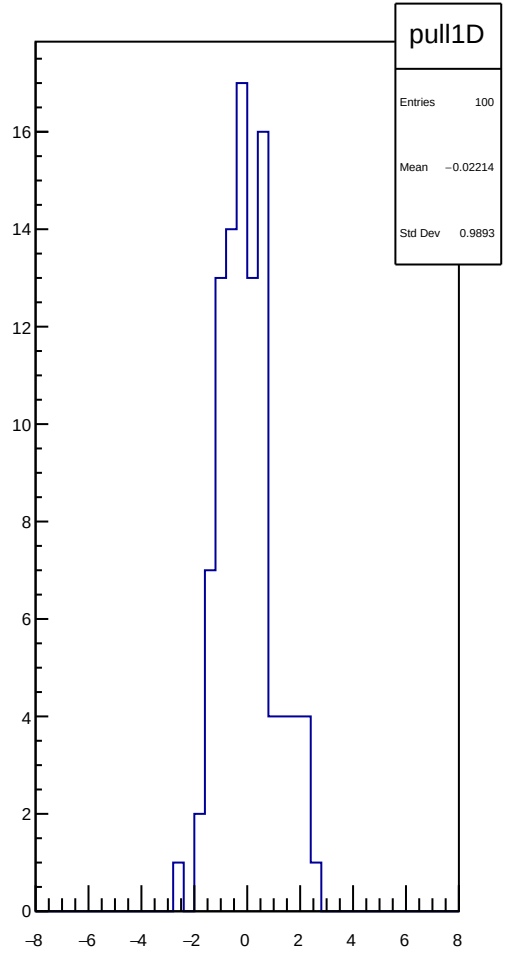

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.763e+05 / 99
p0 138 ± 0.1074
400
350
300
250
200
150
100
50

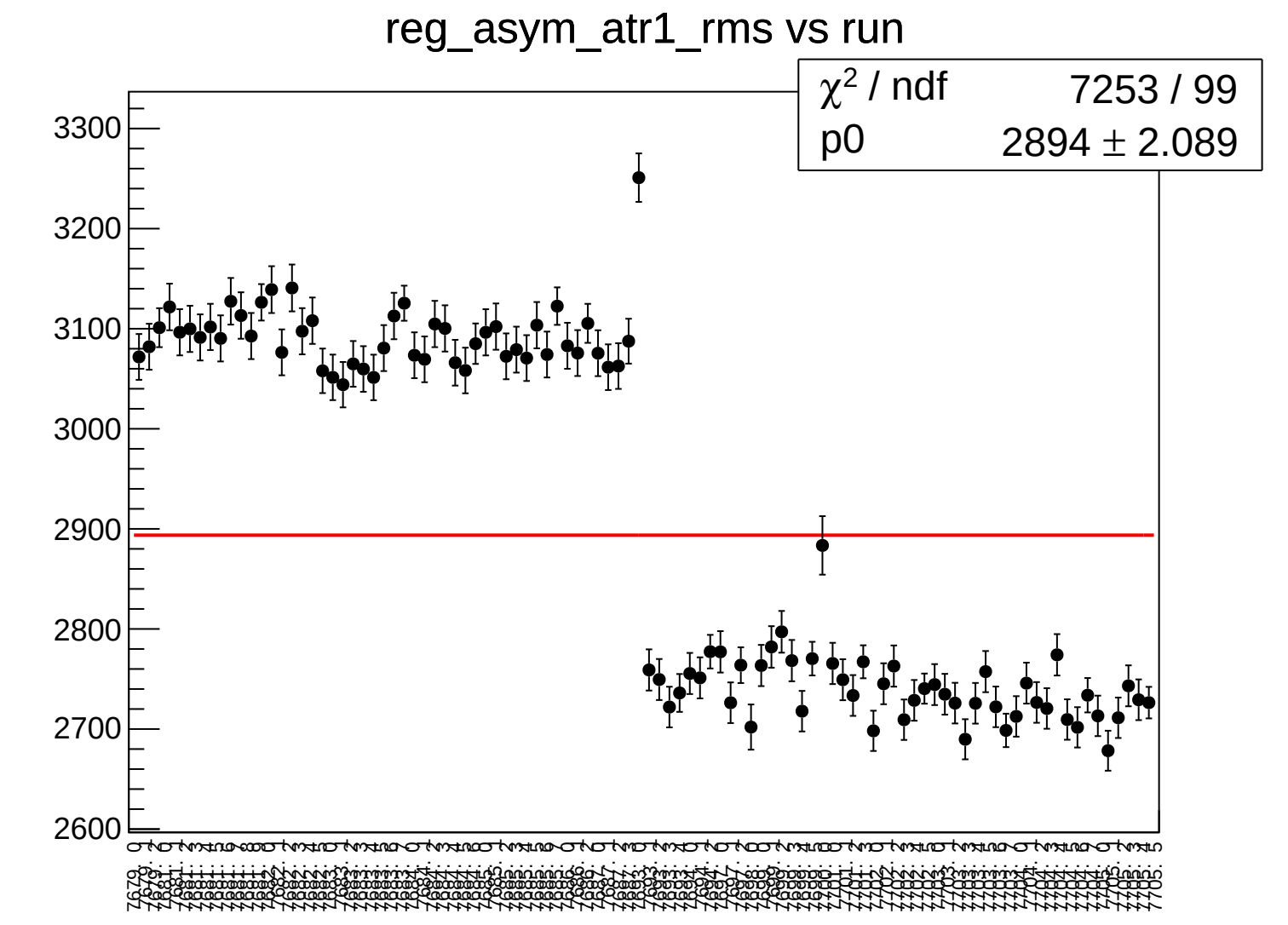

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 125.9 / 99
p0 8.996e−14 ± 3.572e−13
pull
Entries 100
Mean 88.23
Std Dev 0

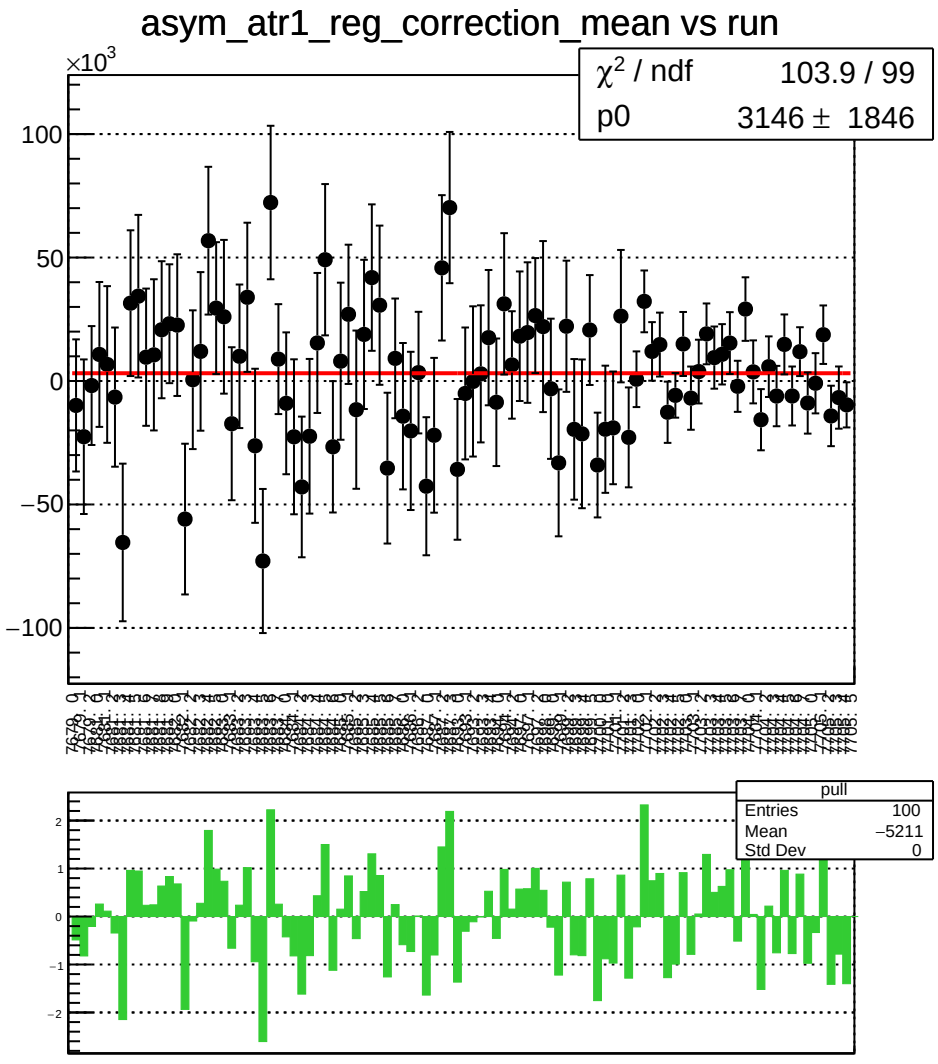

pull1D
Entries 100
Mean −0.1292
Std Dev 1.115

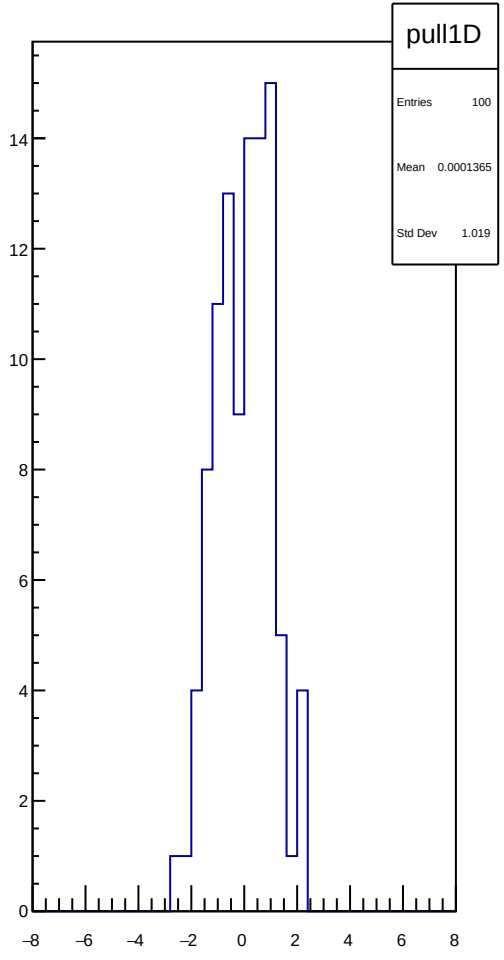

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.052e+06 / 99
p0 2.36e−10 ± 2.526e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

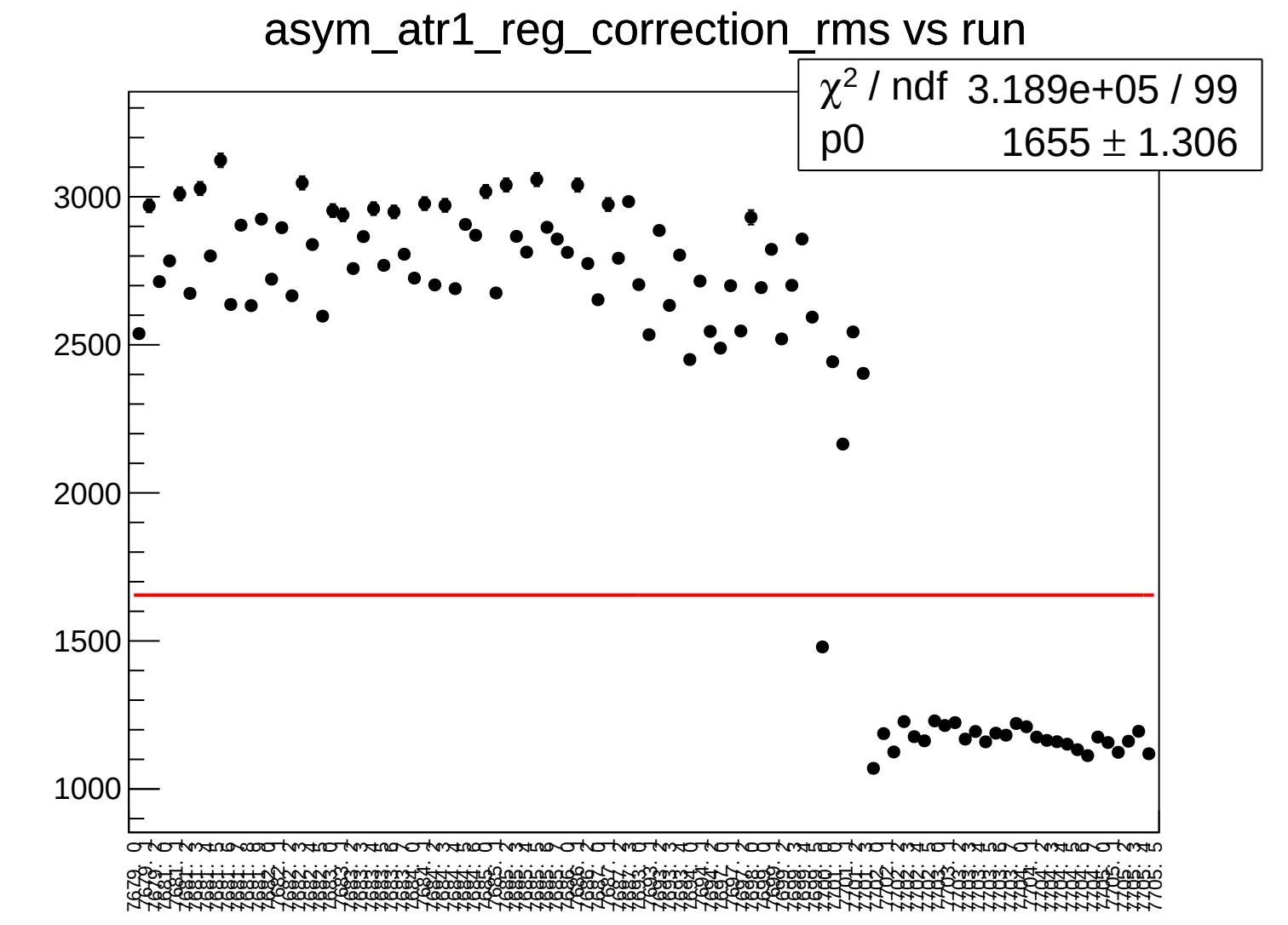

reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 97.92 / 99
p0 37.19 ± 2955
100
50
0
−50
−100
pull
Entries 100
Mean −38.93
Std Dev 0
2
1
0
−1
−2

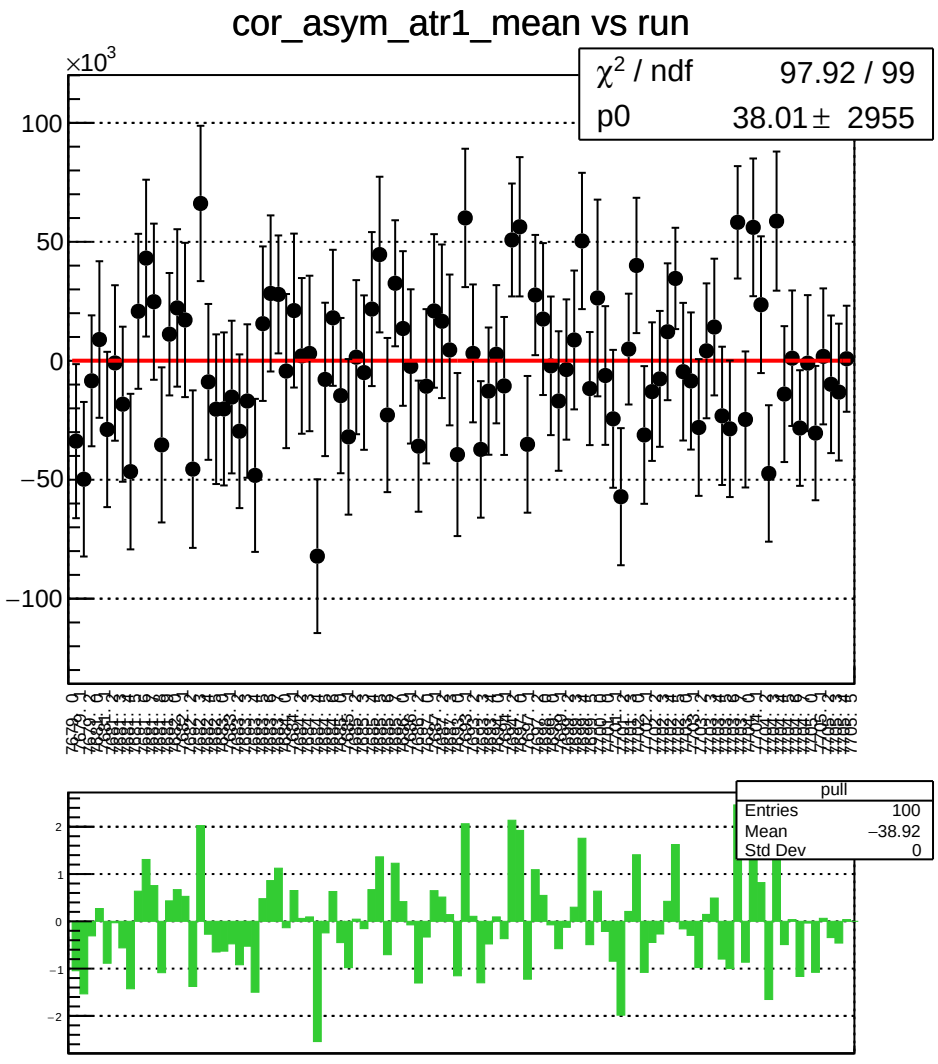

pull1D
Entries 100
Mean −0.02214
Std Dev 0.9893
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

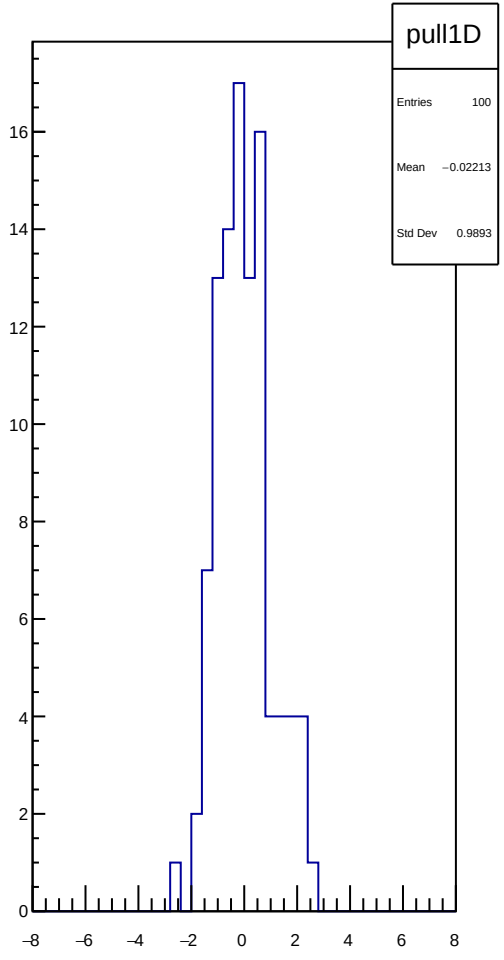

reg_asym_atr1_rms vs run
χ^2 / ndf 7253 / 99
p0 2894 ± 2.089
3300
3200
3100
3000
2900
2800
2700
2600

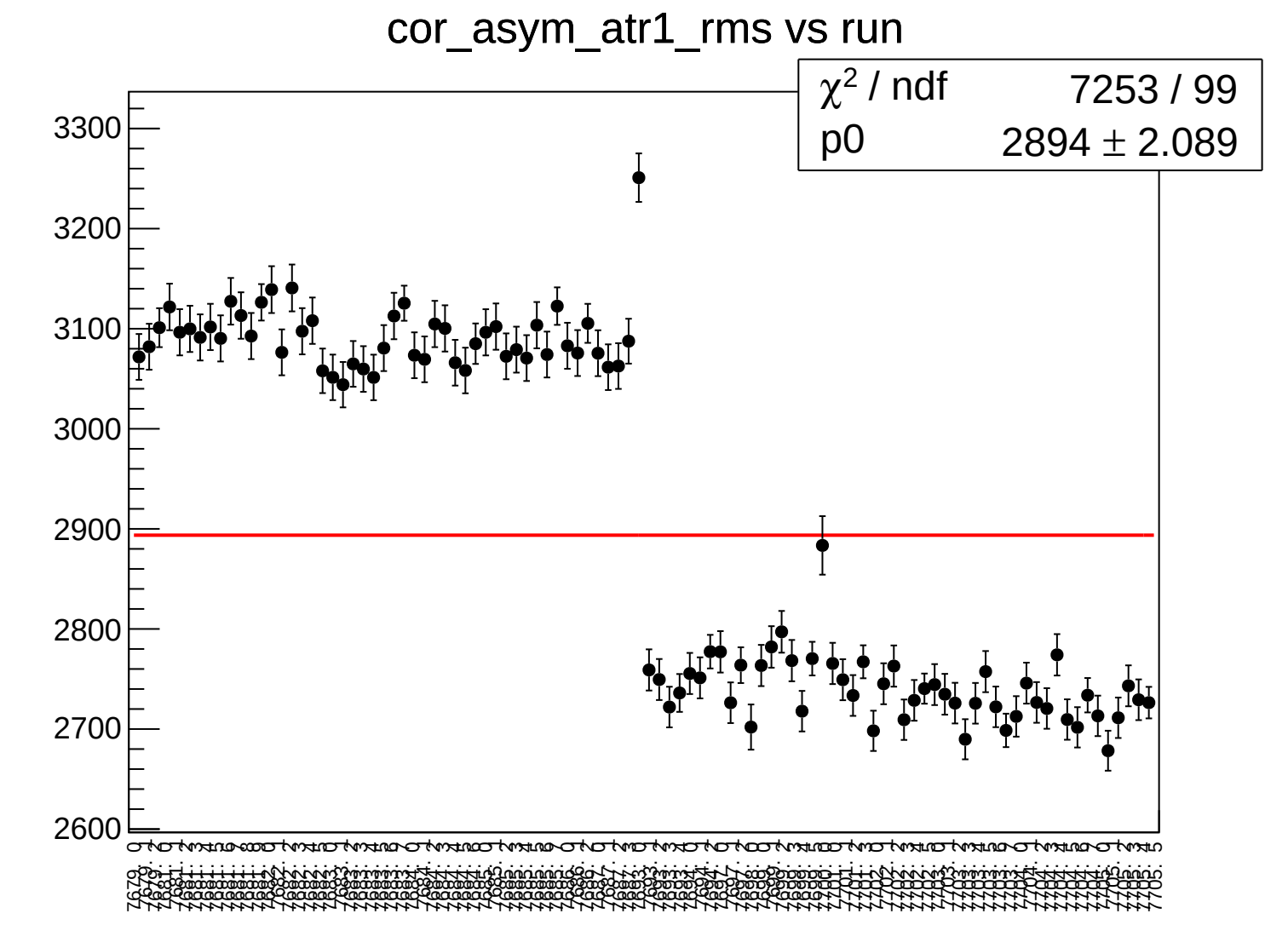

asym_atr1_reg_correction_mean vs run
×10^3
χ² / ndf 103.9 / 99
p0 3146 ± 1846
100
50
0
−50
−100
pull
Entries 100
Mean −5211
Std Dev 0
2
1
0
−1
−2

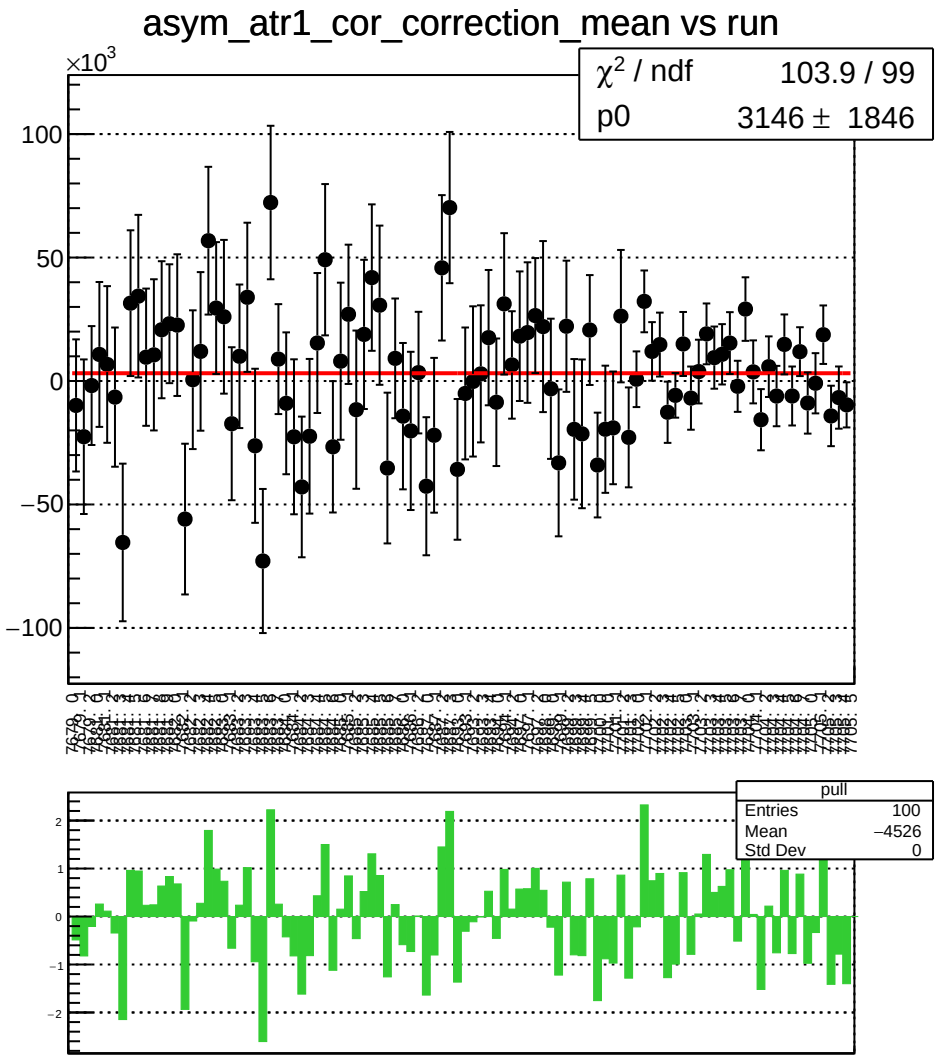

pull1D
Entries 100
Mean 0.0001365
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

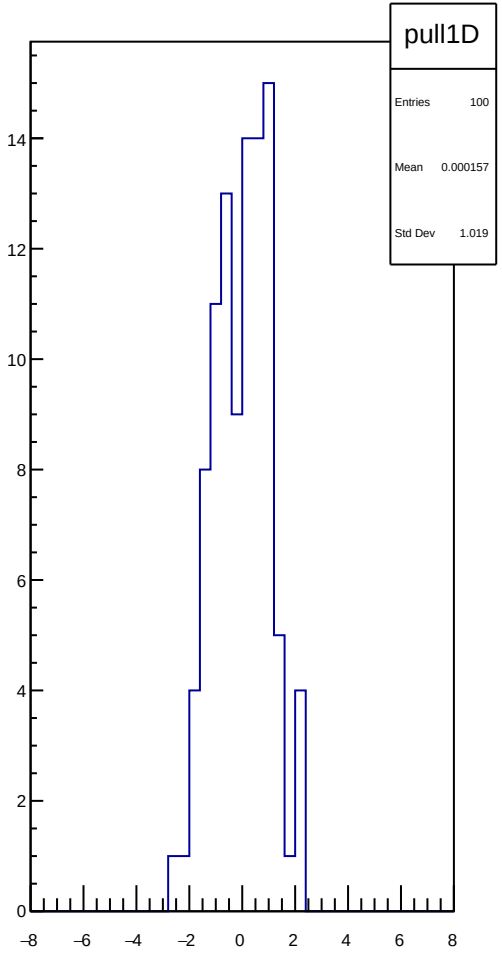

asym_atr1_reg_correction_rms vs run
χ² / ndf 3.189e+05 / 99
p0 1655 ± 1.306
3000
2500
2000
1500
1000

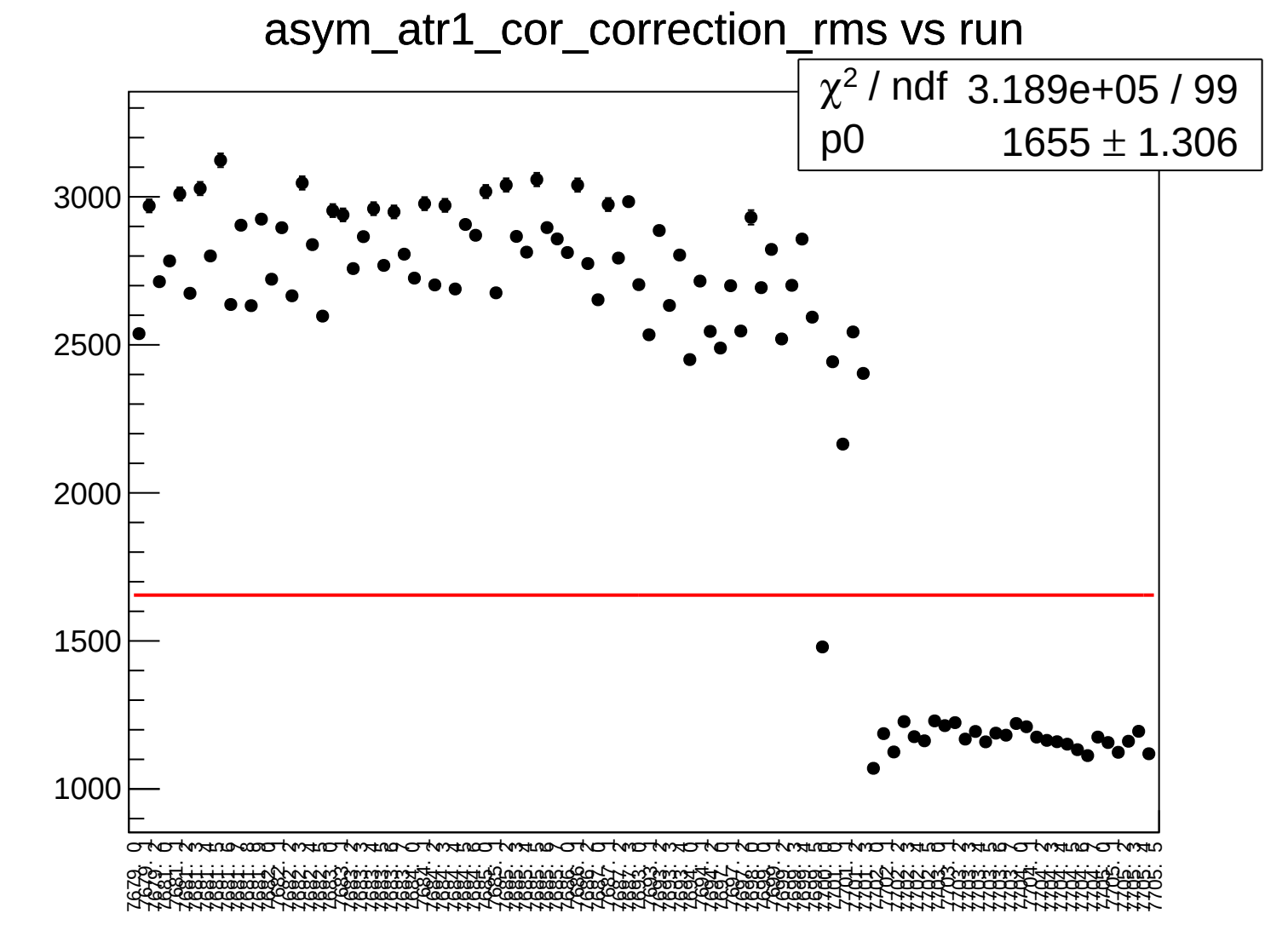

cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 97.92 / 99
p0 38.01 ± 2955
100
50
0
−50
−100
pull
Entries 100
Mean −38.92
Std Dev 0
2
1
0
−1
−2

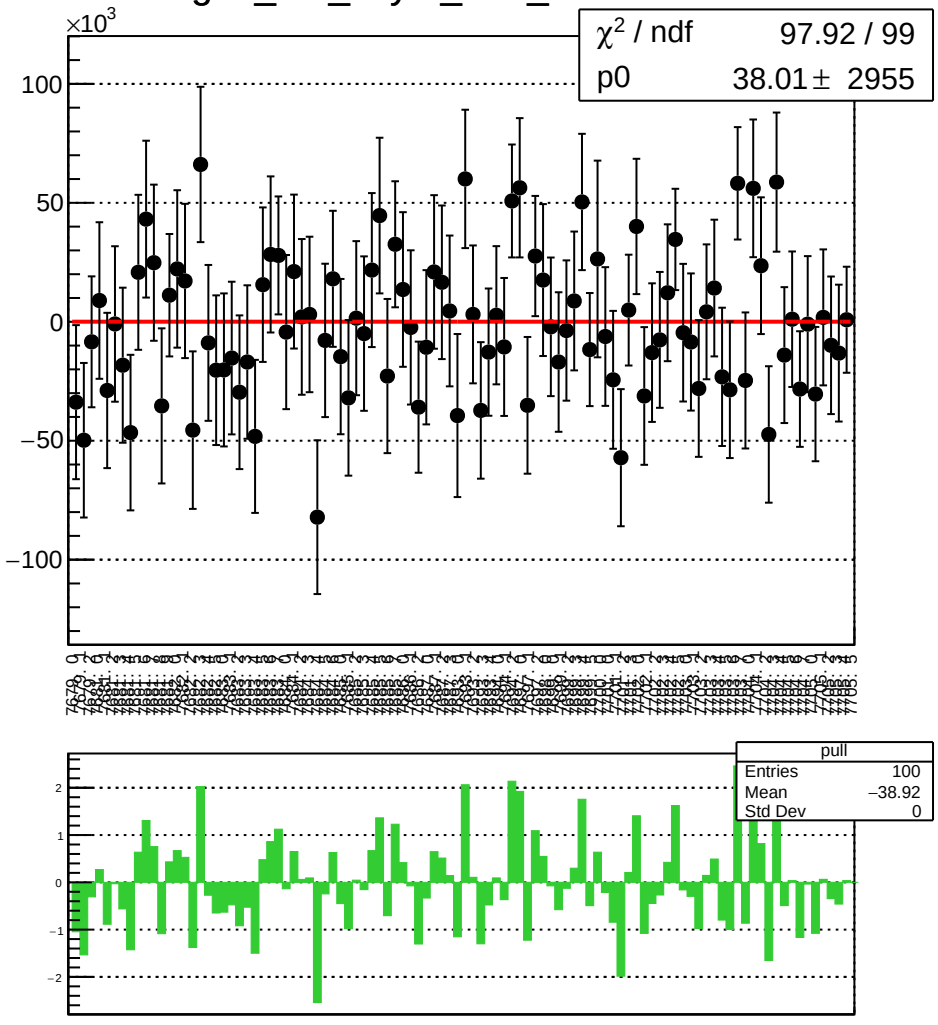

pull1D
Entries 100
Mean −0.02213
Std Dev 0.9893
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

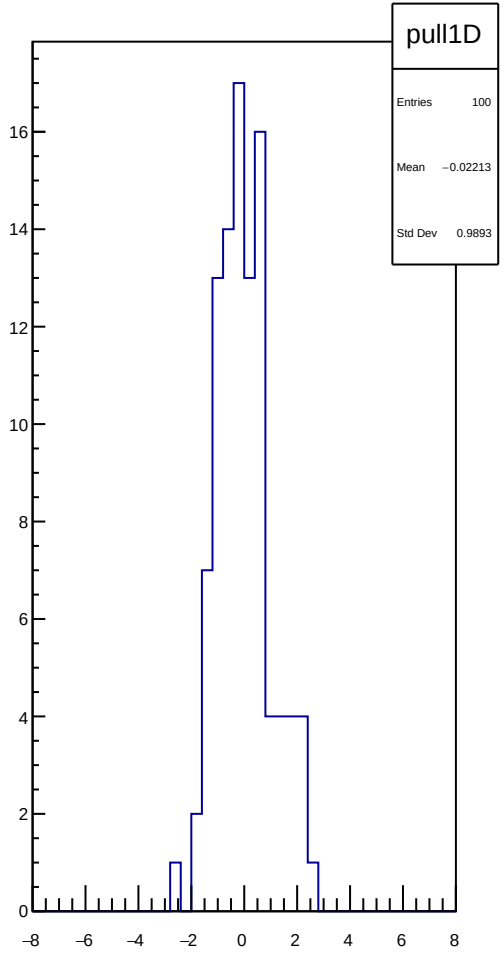

cor_asym_atr1_rms vs run
χ² / ndf 7253 / 99
p0 2894 ± 2.089
3300
3200
3100
3000
2900
2800
2700
2600


asym_atr1_cor_correction_mean vs run
×10^3
χ^2 / ndf 103.9 / 99
p0 3146 ± 1846
100
50
0
−50
−100
pull
Entries 100
Mean −4526
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 100
Mean 0.000157
Std Dev 1.019
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 3.189e+05 / 99
p0 1655 ± 1.306
3000
2500
2000
1500
1000


eigen_cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 97.92 / 99
p0 38.01 ± 2955
100
50
0
−50
−100
pull
Entries 100
Mean −38.92
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 100
Mean −0.02213
Std Dev 0.9893
16
14
12
10
8
6
4
2
0
−8
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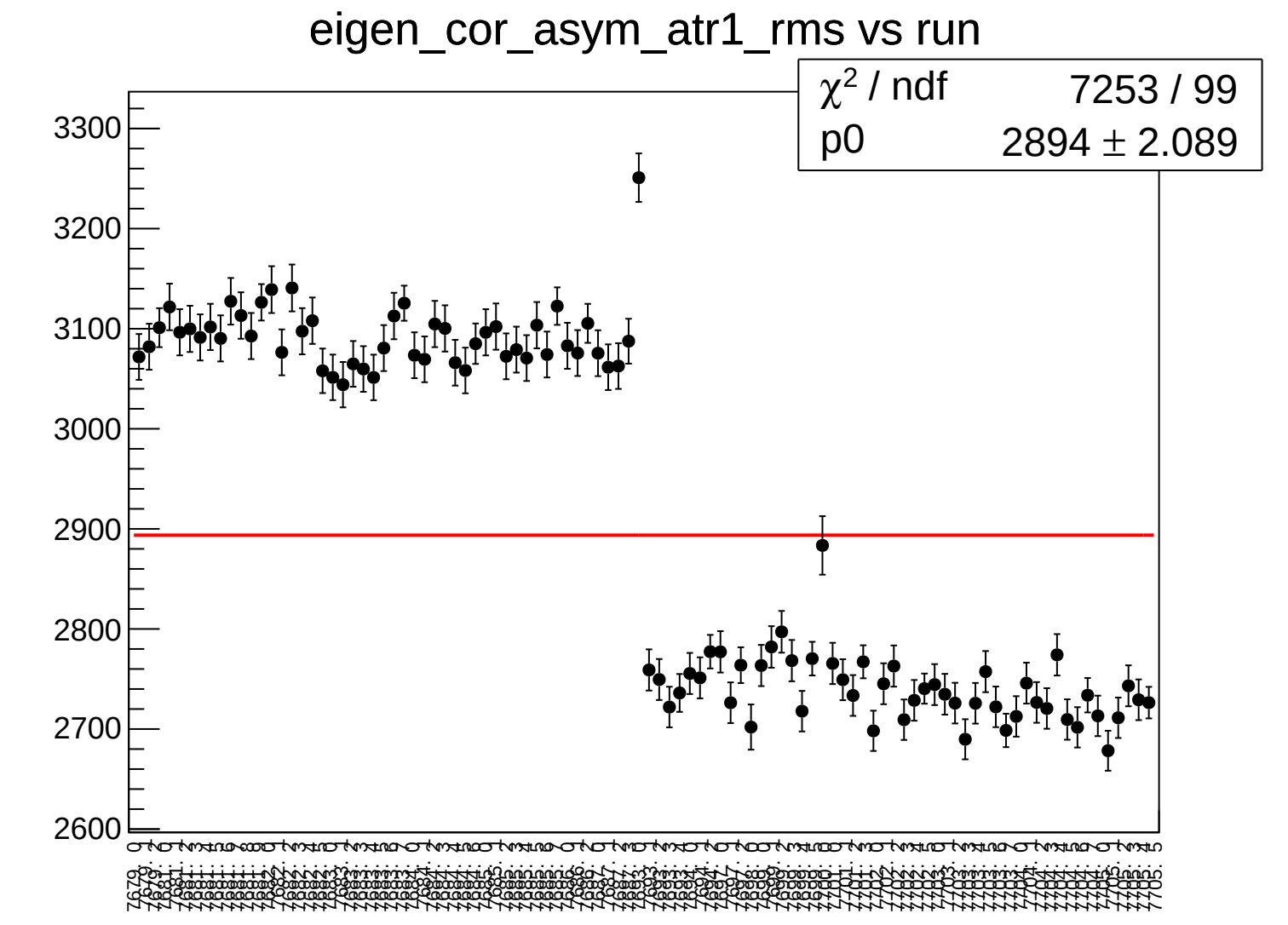
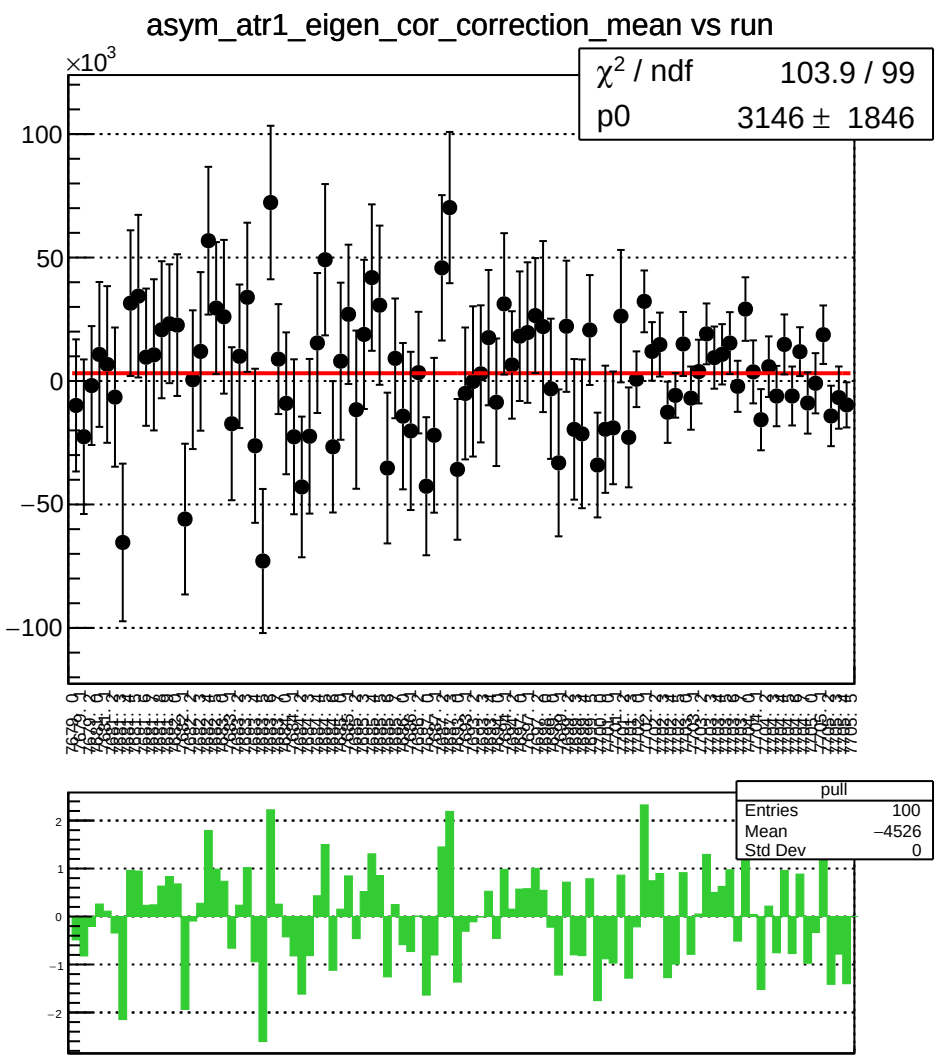
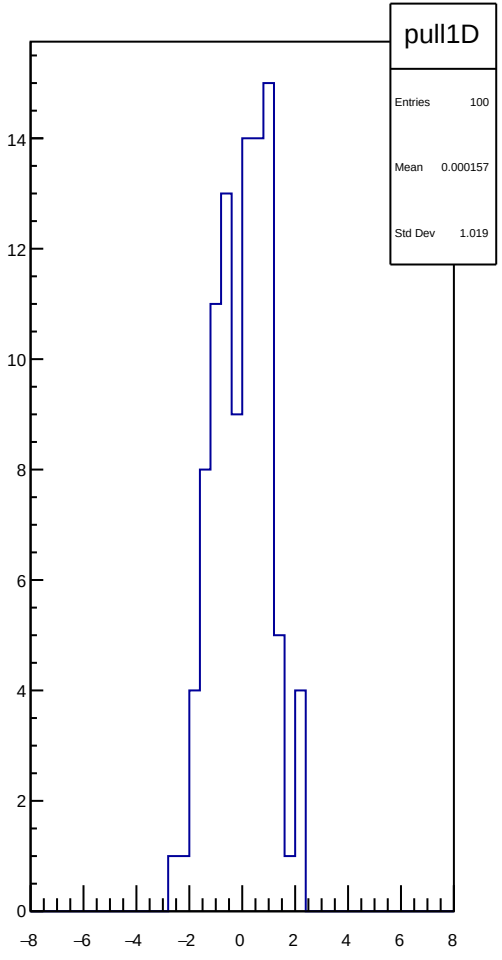
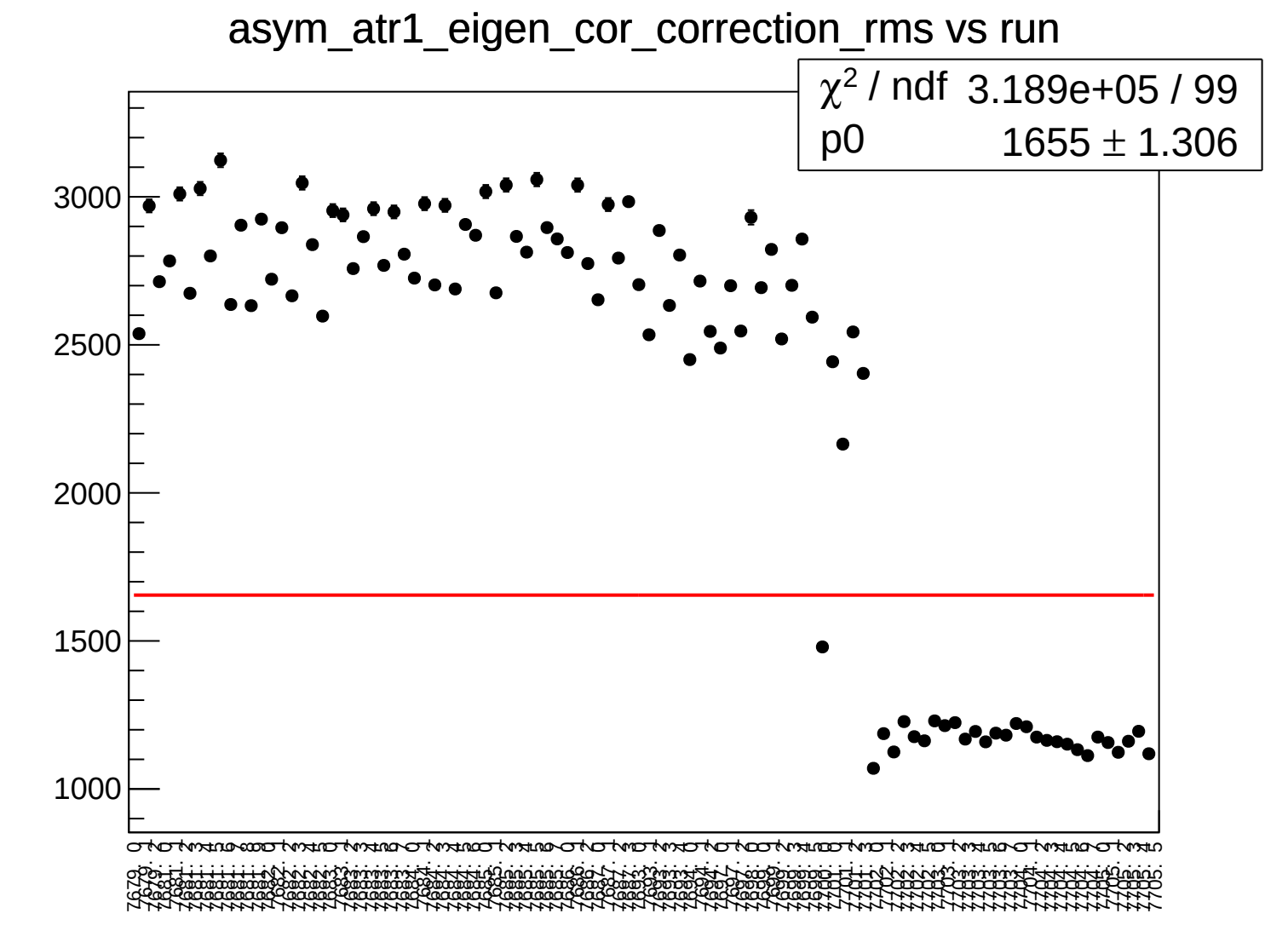
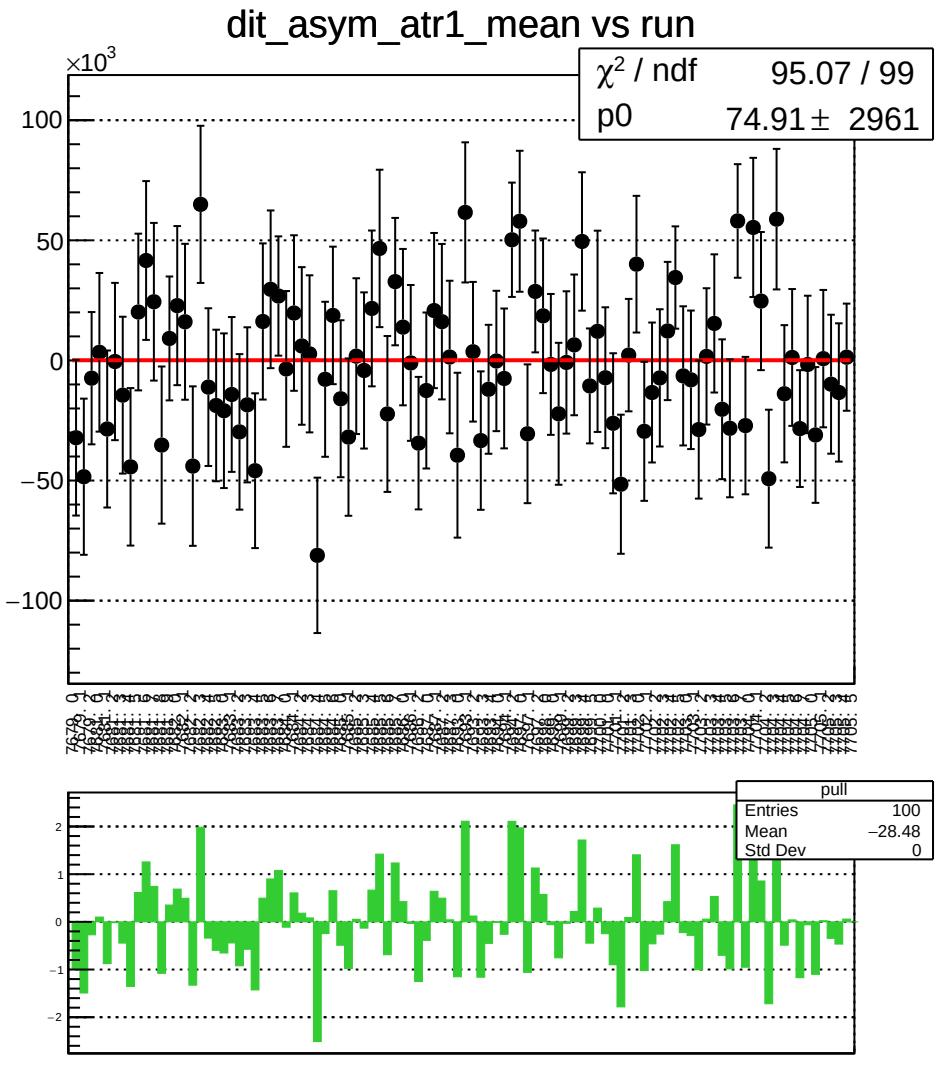
0
2
4
6
8

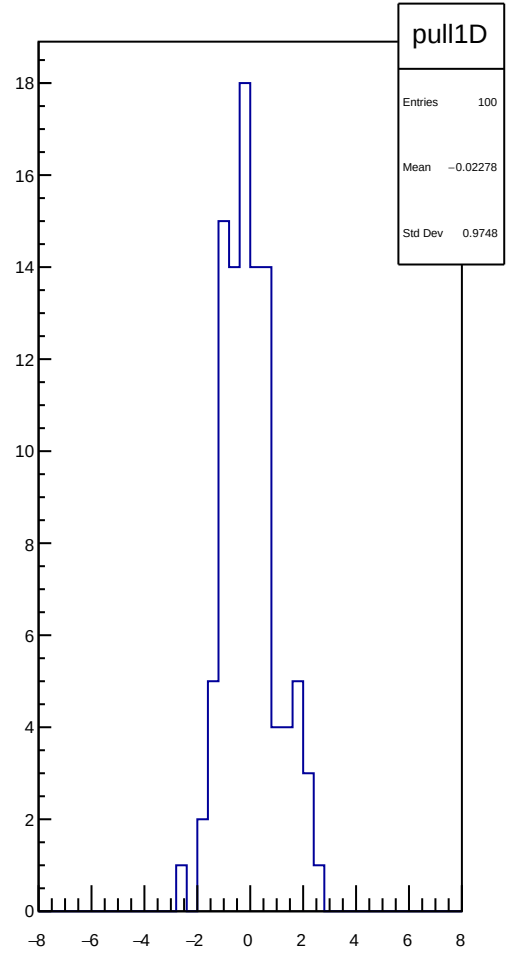

eigen_cor_asym_atr1_rms vs run
χ² / ndf 7253 / 99
p0 2894 ± 2.089
3300
3200
3100
3000
2900
2800
2700
2600

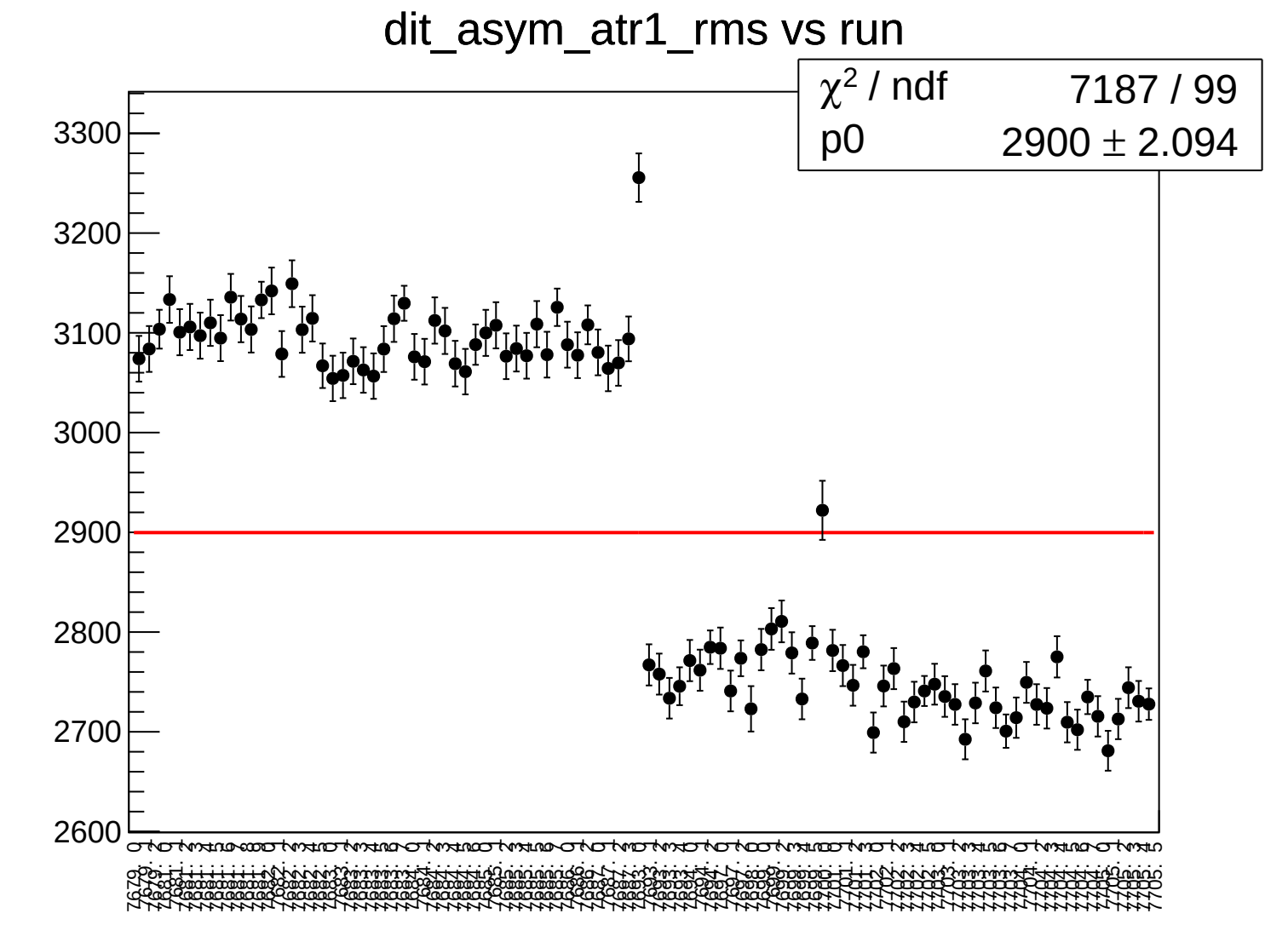

asym_atr1_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 103.9 / 99
p0 3146 ± 1846
100
50
0
−50
−100
pull
Entries 100
Mean −4526
Std Dev 0
2
1
0
−1
−2

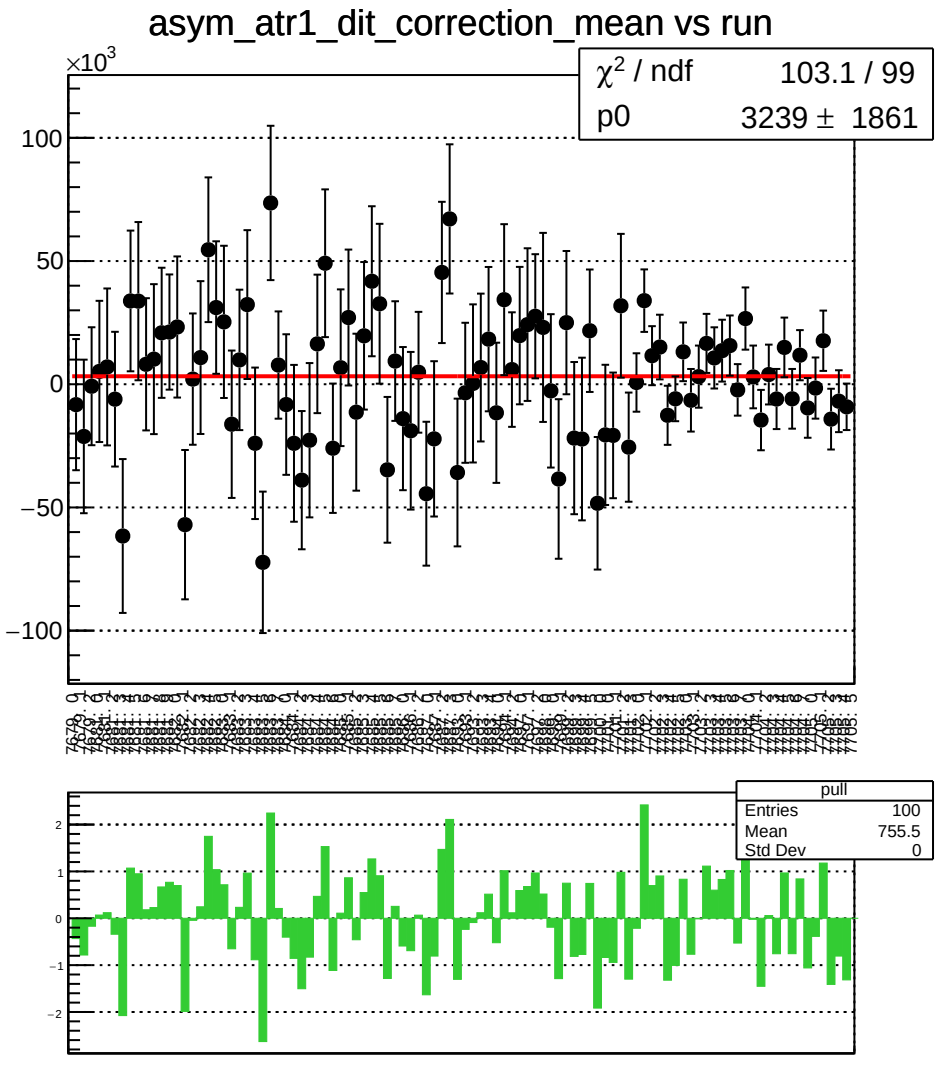

pull1D
Entries 100
Mean 0.000157
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

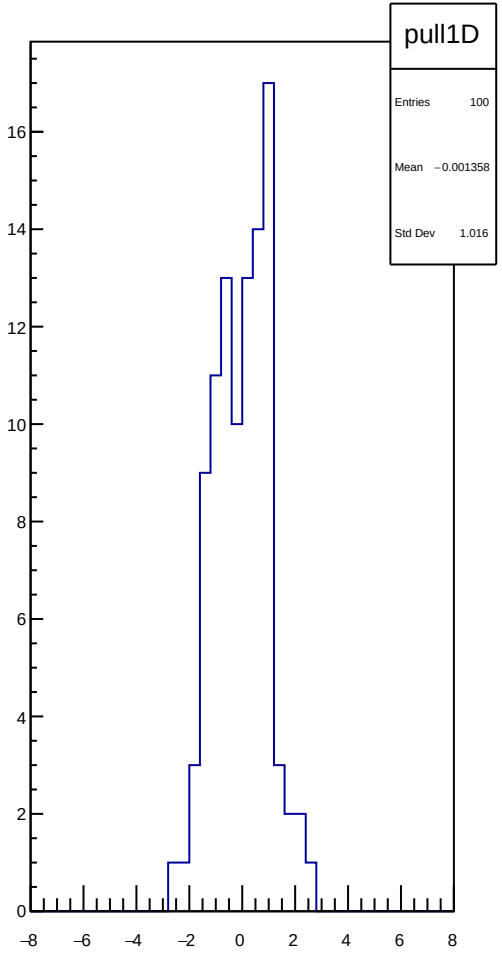

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 3.189e+05 / 99
p0 1655 ± 1.306
3000
2500
2000
1500
1000

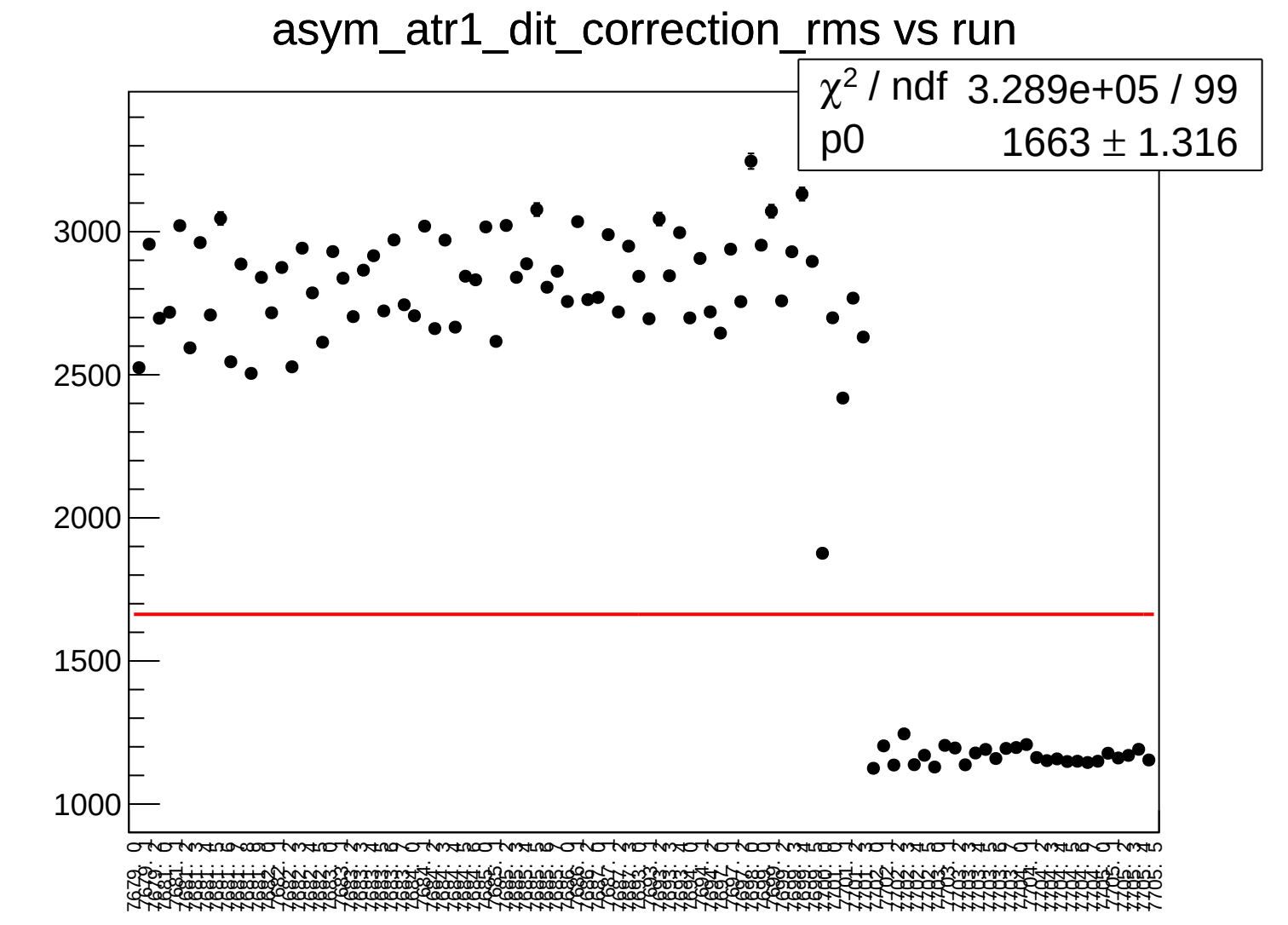

dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 95.07 / 99
p0 74.91 ± 2961
100
50
0
−50
−100
pull
Entries 100
Mean −28.48
Std Dev 0
2
1
0
−1
−2

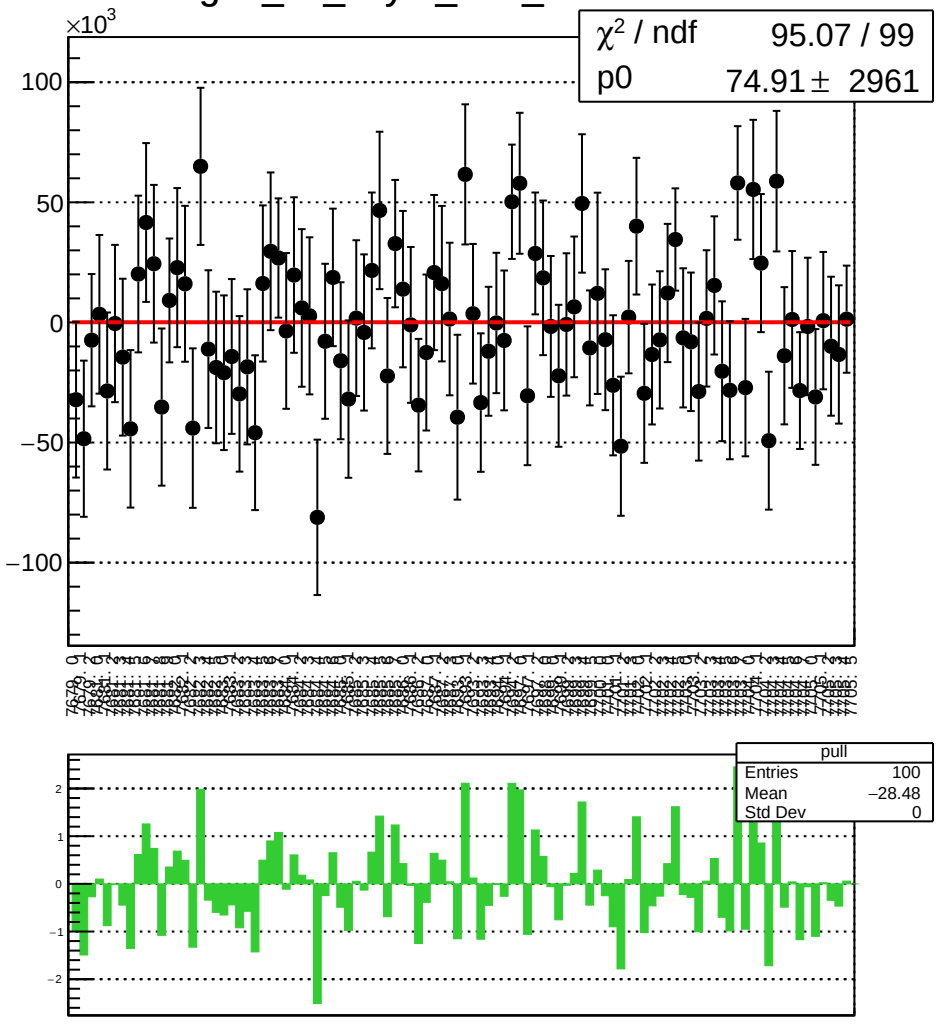

pull1D
Entries 100
Mean −0.02278
Std Dev 0.9748
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

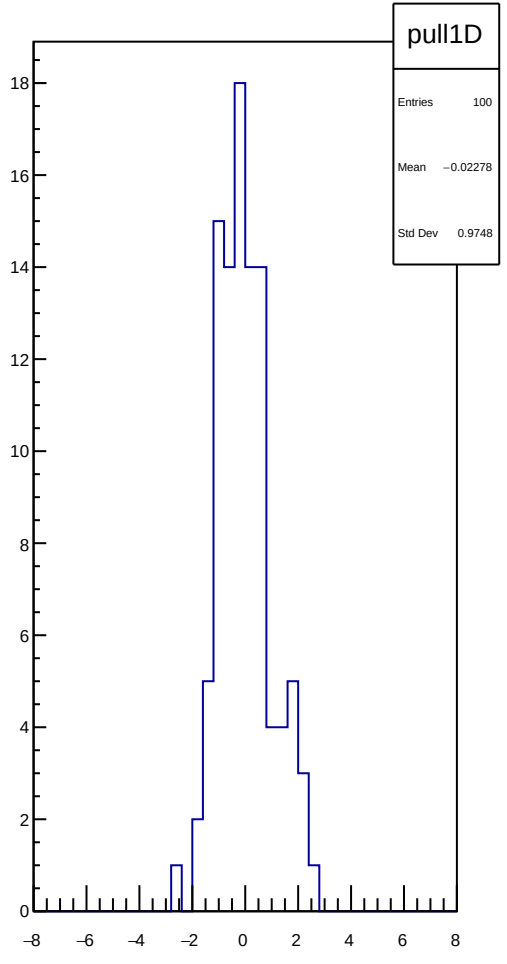

dit_asym_atr1_rms vs run
χ² / ndf 7187 / 99
p0 2900 ± 2.094
3300
3200
3100
3000
2900
2800
2700
2600

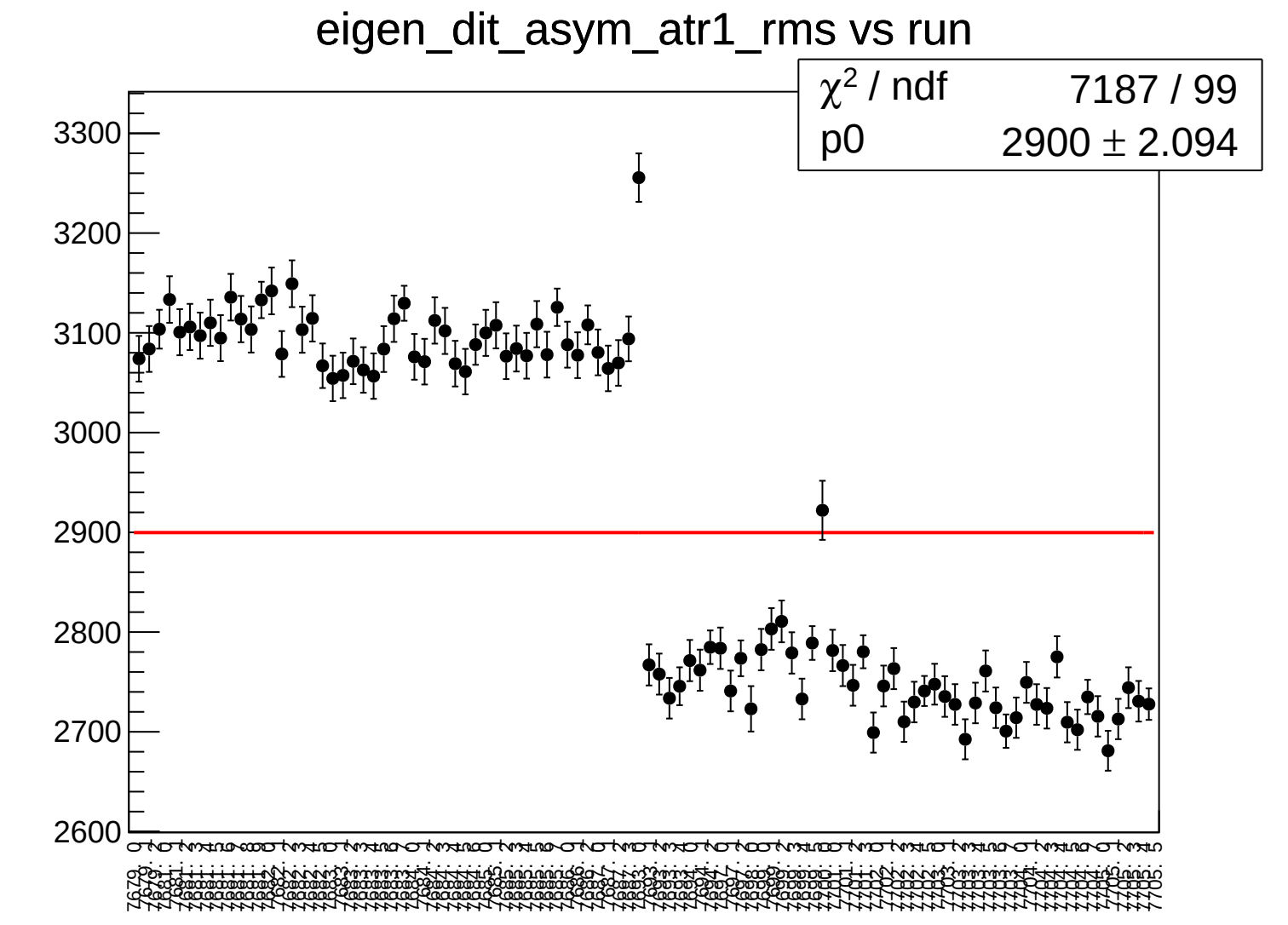

asym_atr1_dit_correction_mean vs run
×10^3
χ^2 / ndf 103.1 / 99
p0 3239 ± 1861
100
50
0
−50
−100
pull
Entries 100
Mean 755.5
Std Dev 0
2
1
0
−1
−2

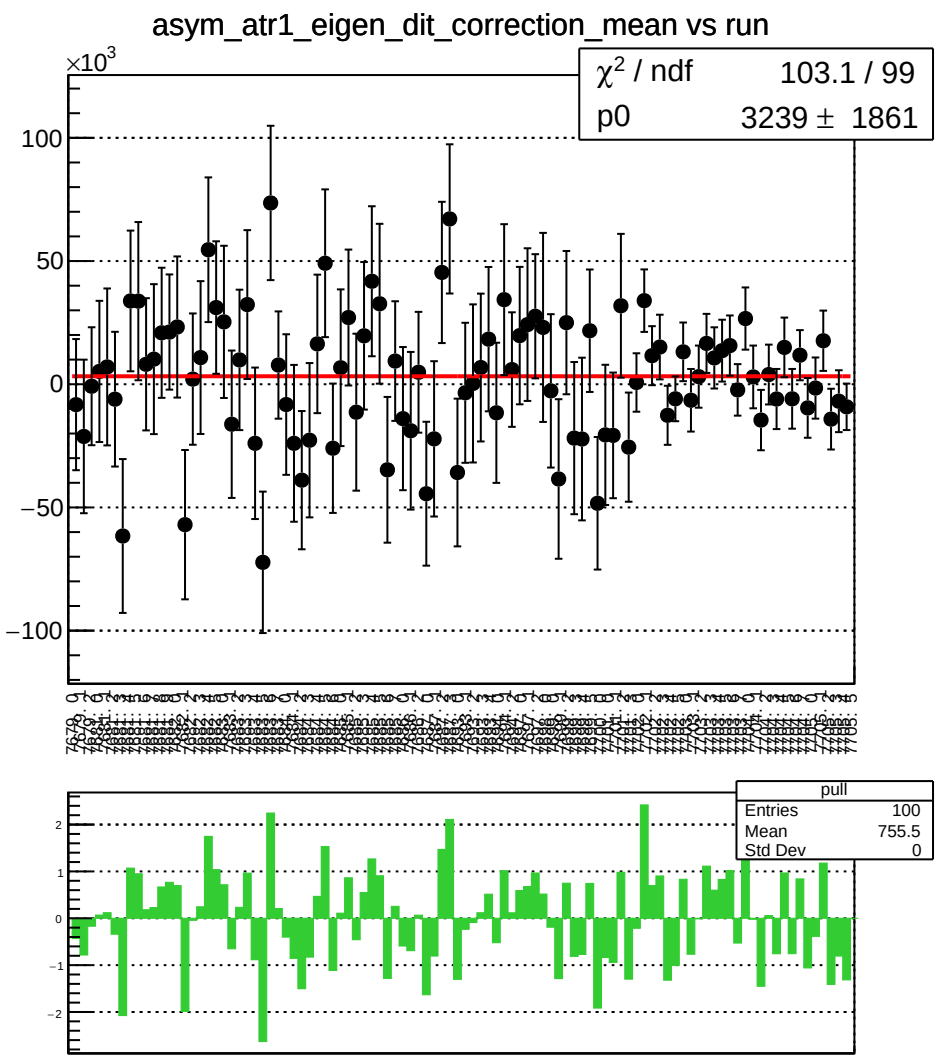

pull1D
Entries 100
Mean −0.001358
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

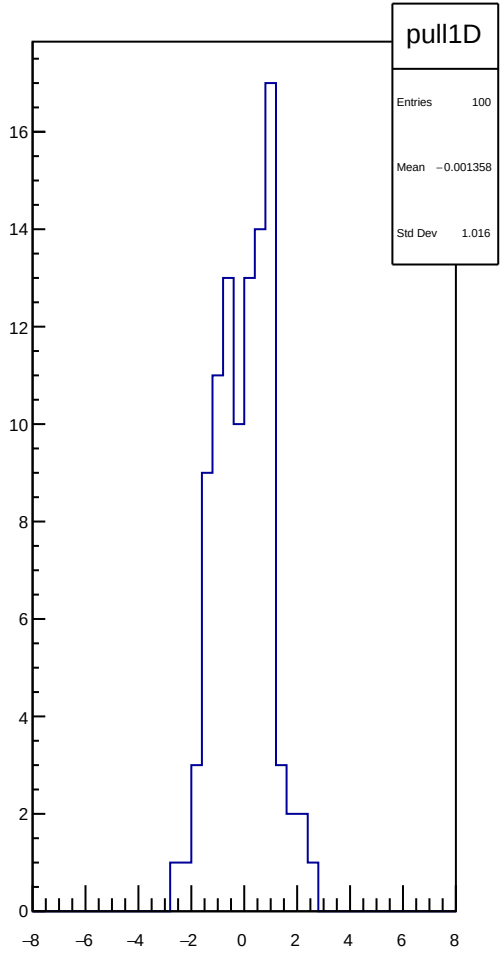

asym_atr1_dit_correction_rms vs run
χ^2 / ndf 3.289e+05 / 99
p0 1663 ± 1.316
3000
2500
2000
1500
1000

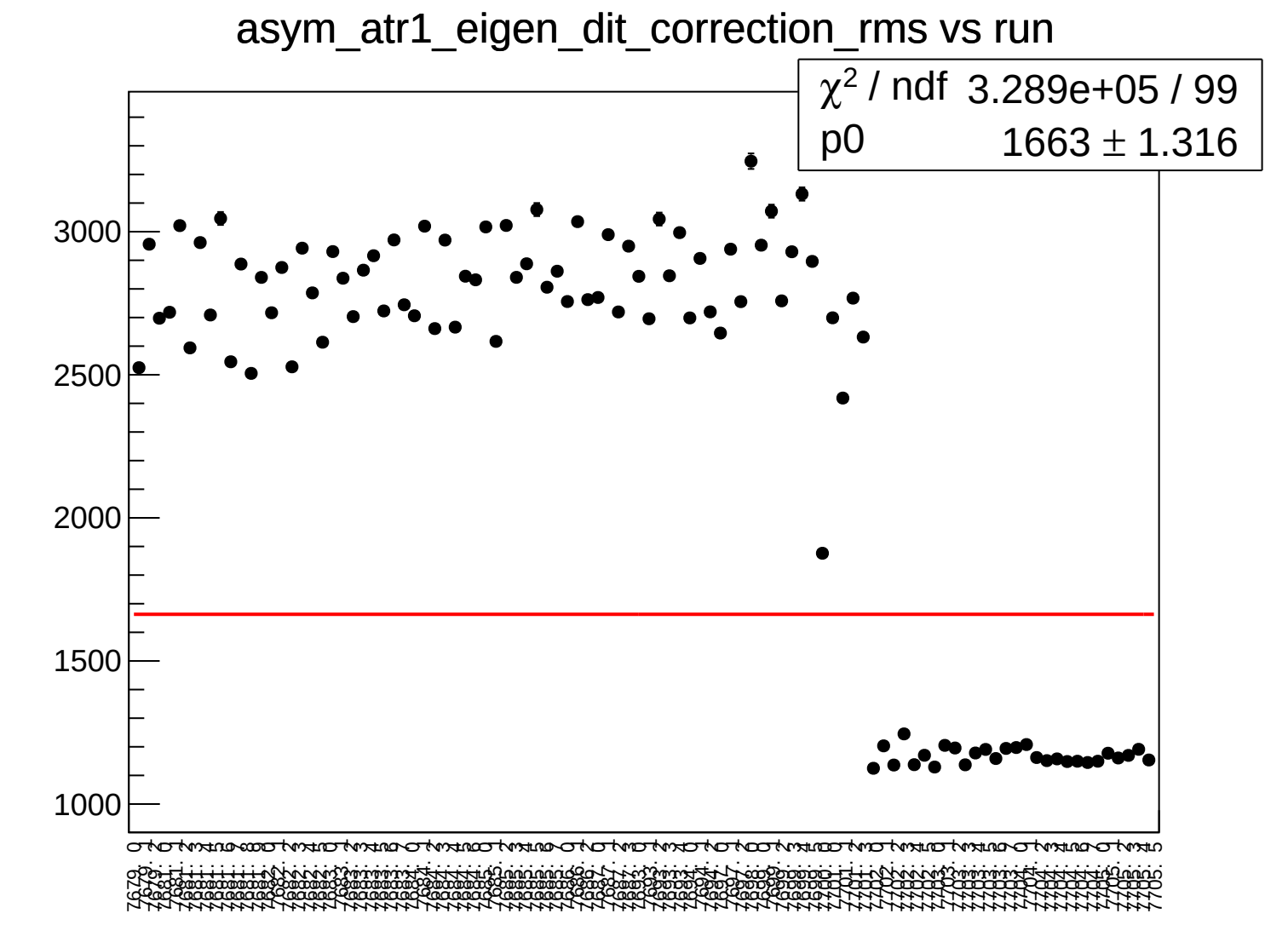

eigen_dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 95.07 / 99
p0 74.91 ± 2961
100
50
0
−50
−100
pull
Entries 100
Mean −28.48
Std Dev 0
2
1
0
−1
−2

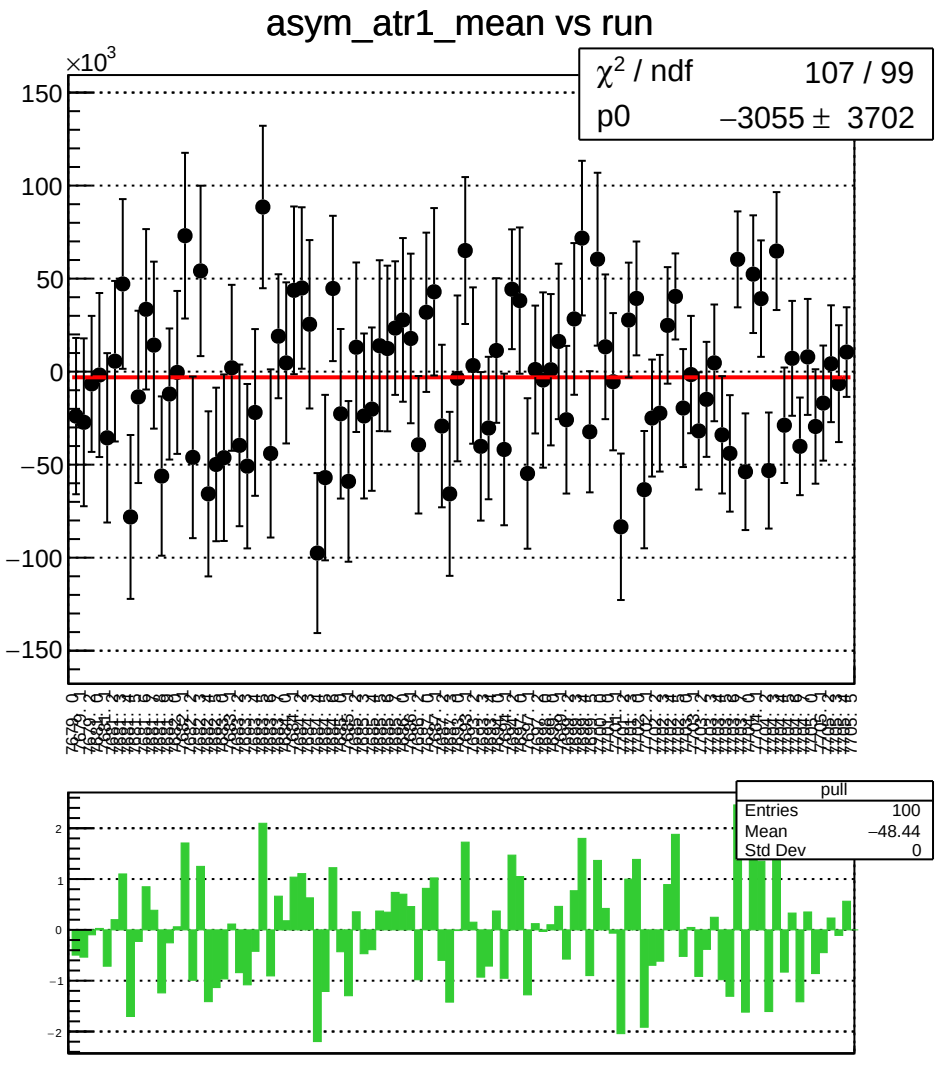

pull1D
Entries 100
Mean −0.02278
Std Dev 0.9748
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

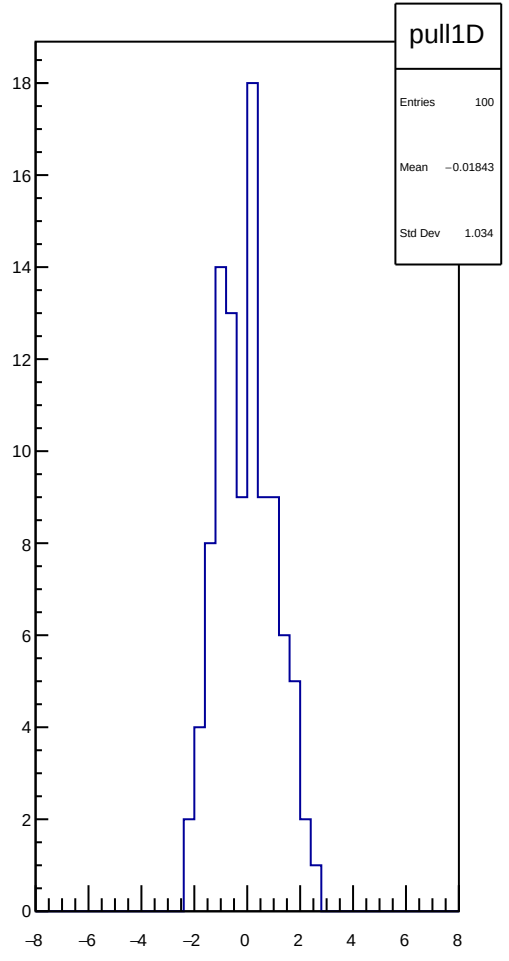

eigen_dit_asym_atr1_rms vs run
χ² / ndf 7187 / 99
p0 2900 ± 2.094
3300
3200
3100
3000
2900
2800
2700
2600

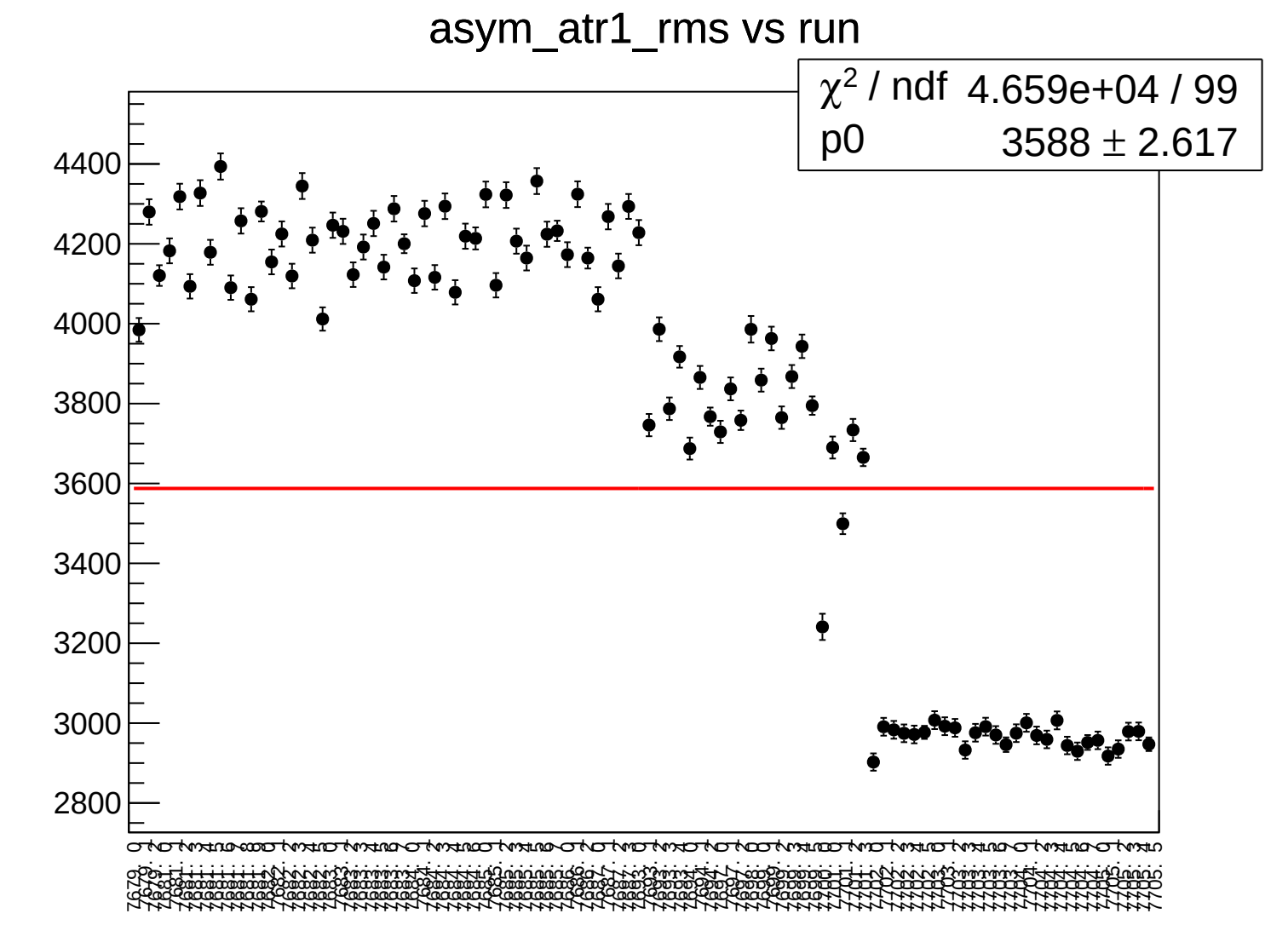

asym_atr1_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 103.1 / 99
p0 3239 ± 1861
100
50
0
−50
−100
pull
Entries 100
Mean 755.5
Std Dev 0
2
1
0
−1
−2

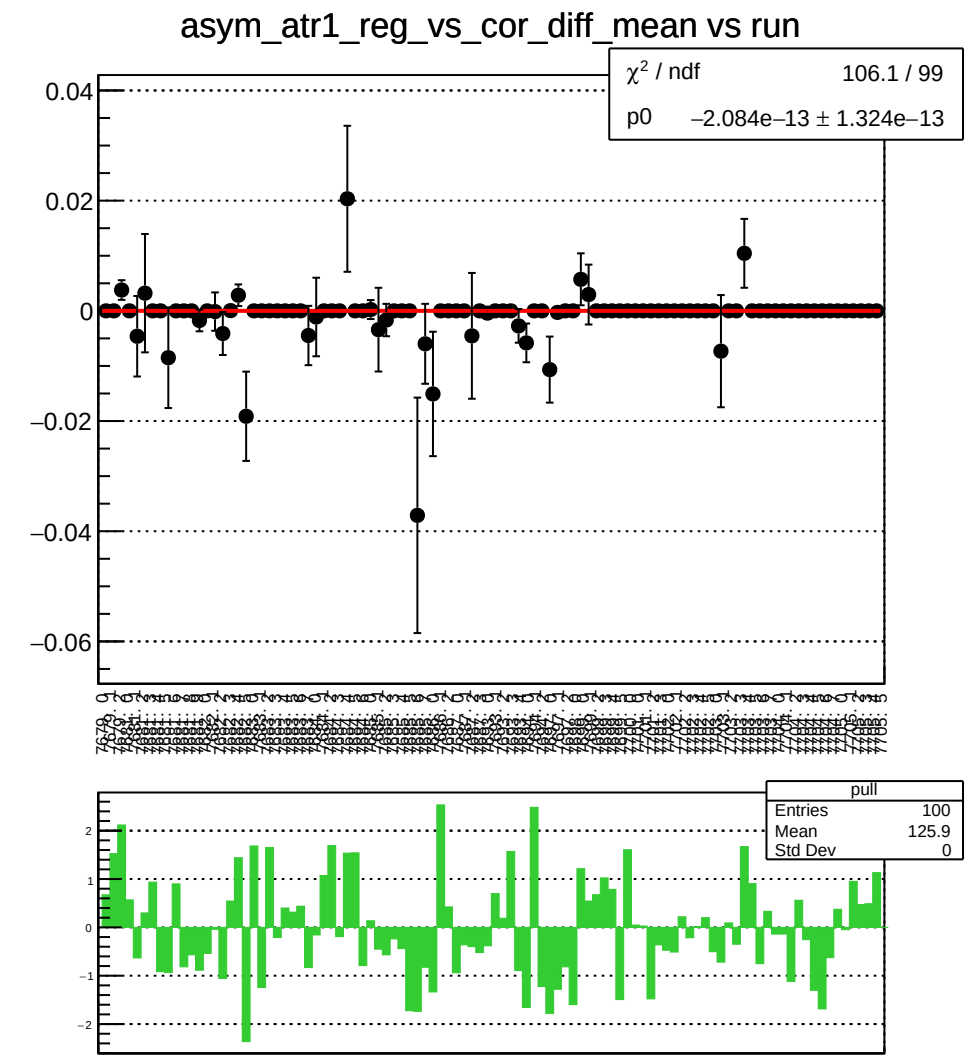

pull1D
Entries 100
Mean −0.001358
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

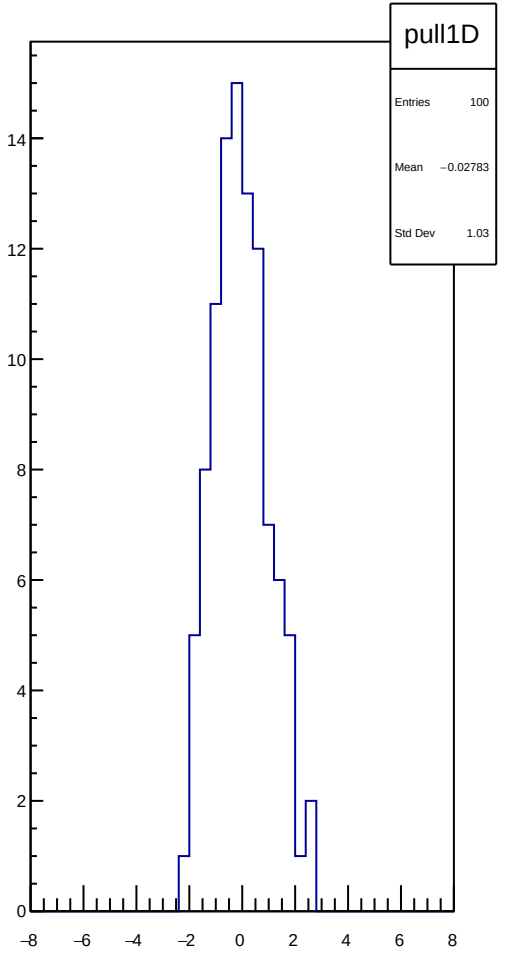

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 3.289e+05 / 99
p0 1663 ± 1.316
3000
2500
2000
1500
1000

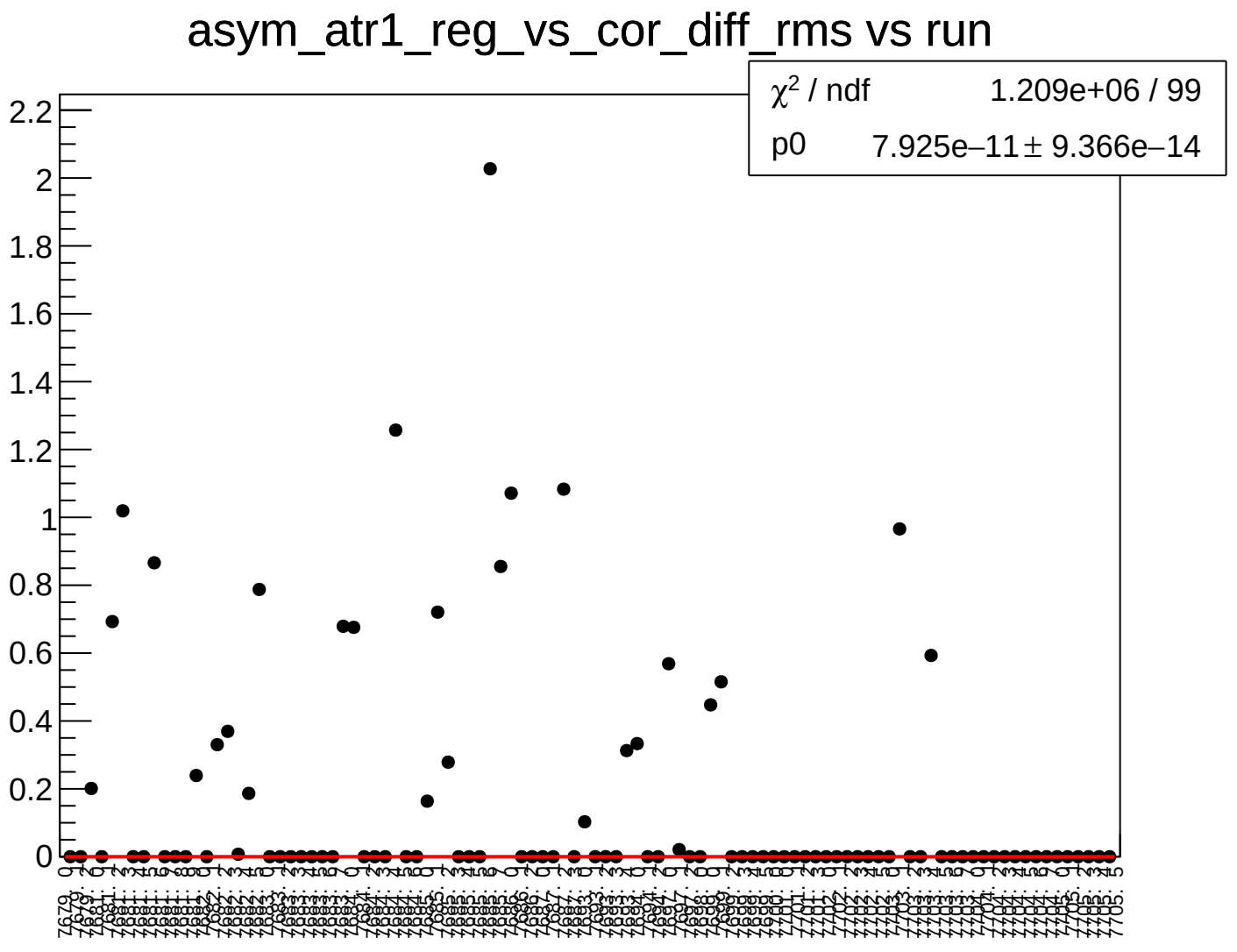

asym_atr1_mean vs run
×10^3
χ² / ndf 107 / 99
p0 −3055 ± 3702
150
100
50
0
−50
−100
−150
pull
Entries 100
Mean −48.44
Std Dev 0
2
1
0
−1
−2

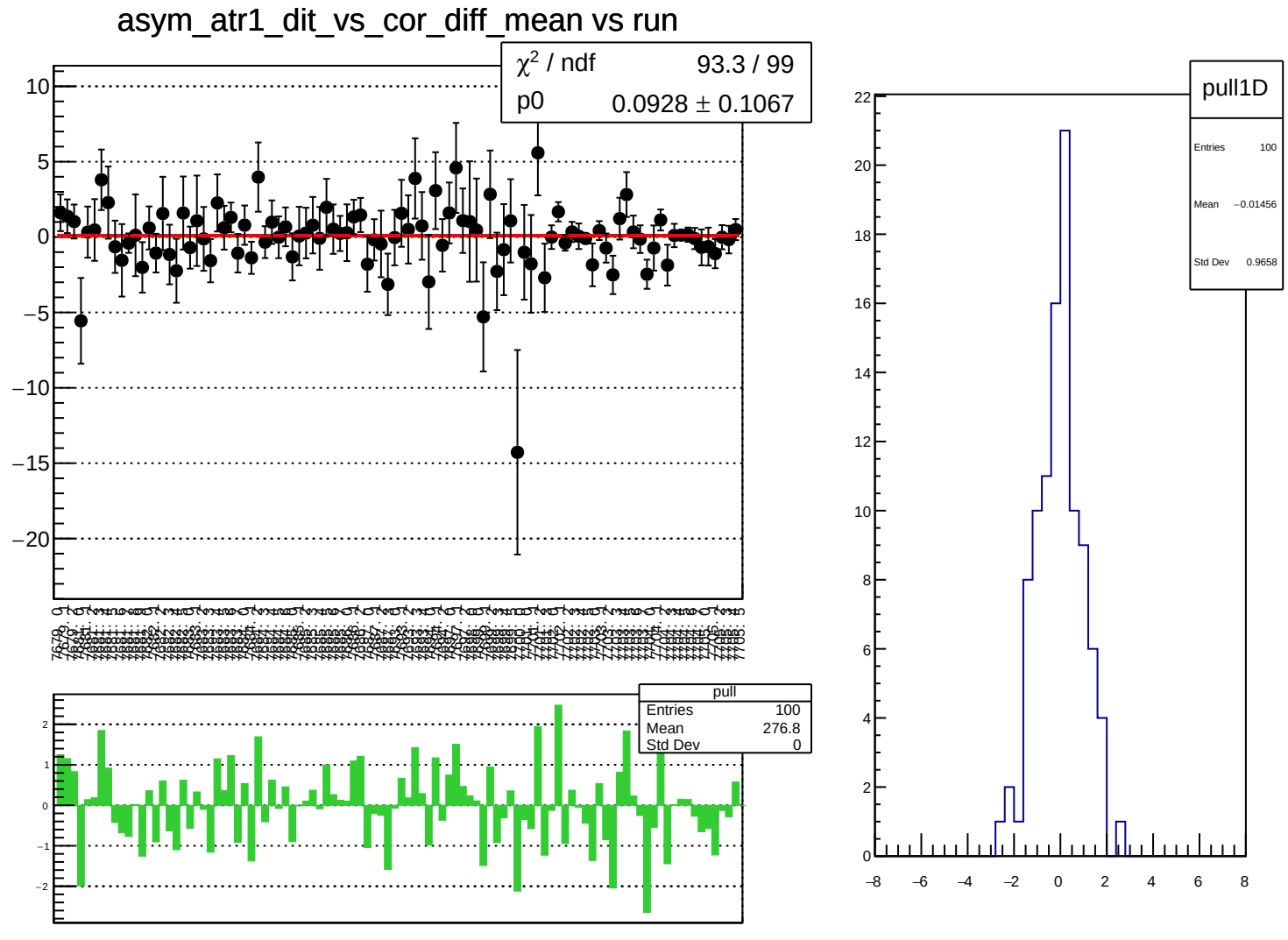

pull1D
Entries 100
Mean −0.01843
Std Dev 1.034
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

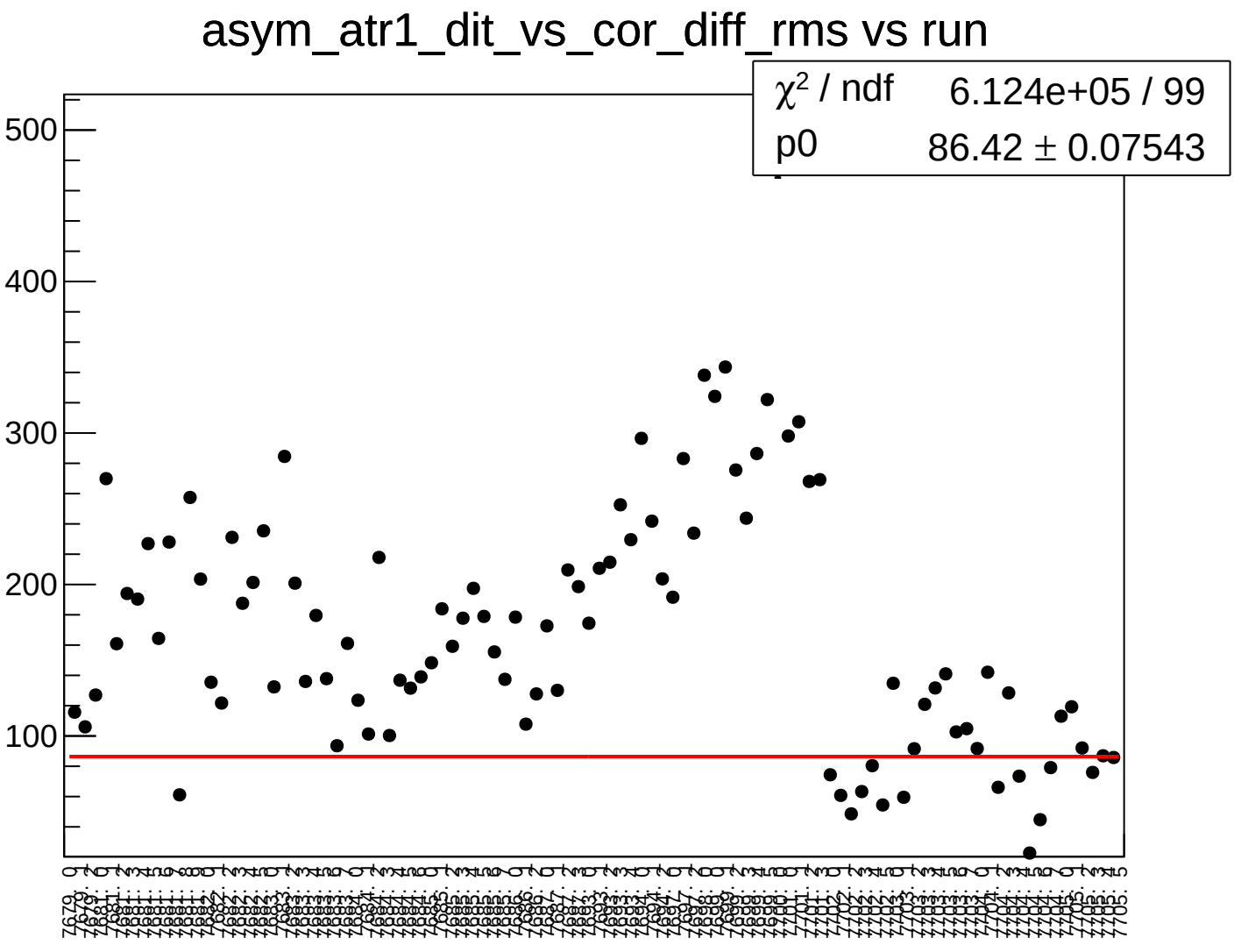

asym_atr1_rms vs run
χ² / ndf 4.659e+04 / 99
p0 3588 ± 2.617
4400
4200
4000
3800
3600
3400
3200
3000
2800

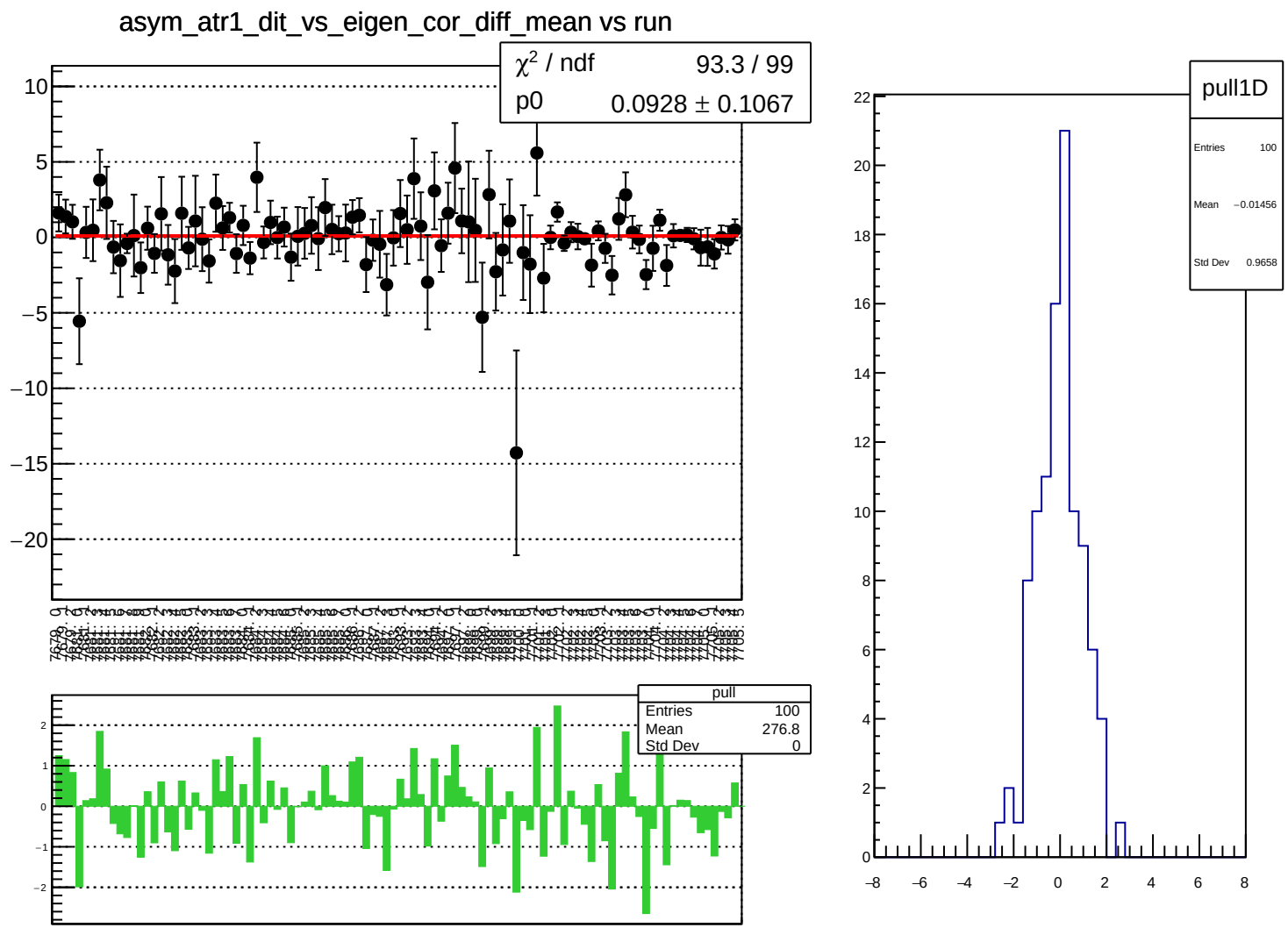

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 106.1 / 99
p0 −2.084e−13 ± 1.324e−13
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 100
Mean 125.9
Std Dev 0
2
1
0
−1
−2

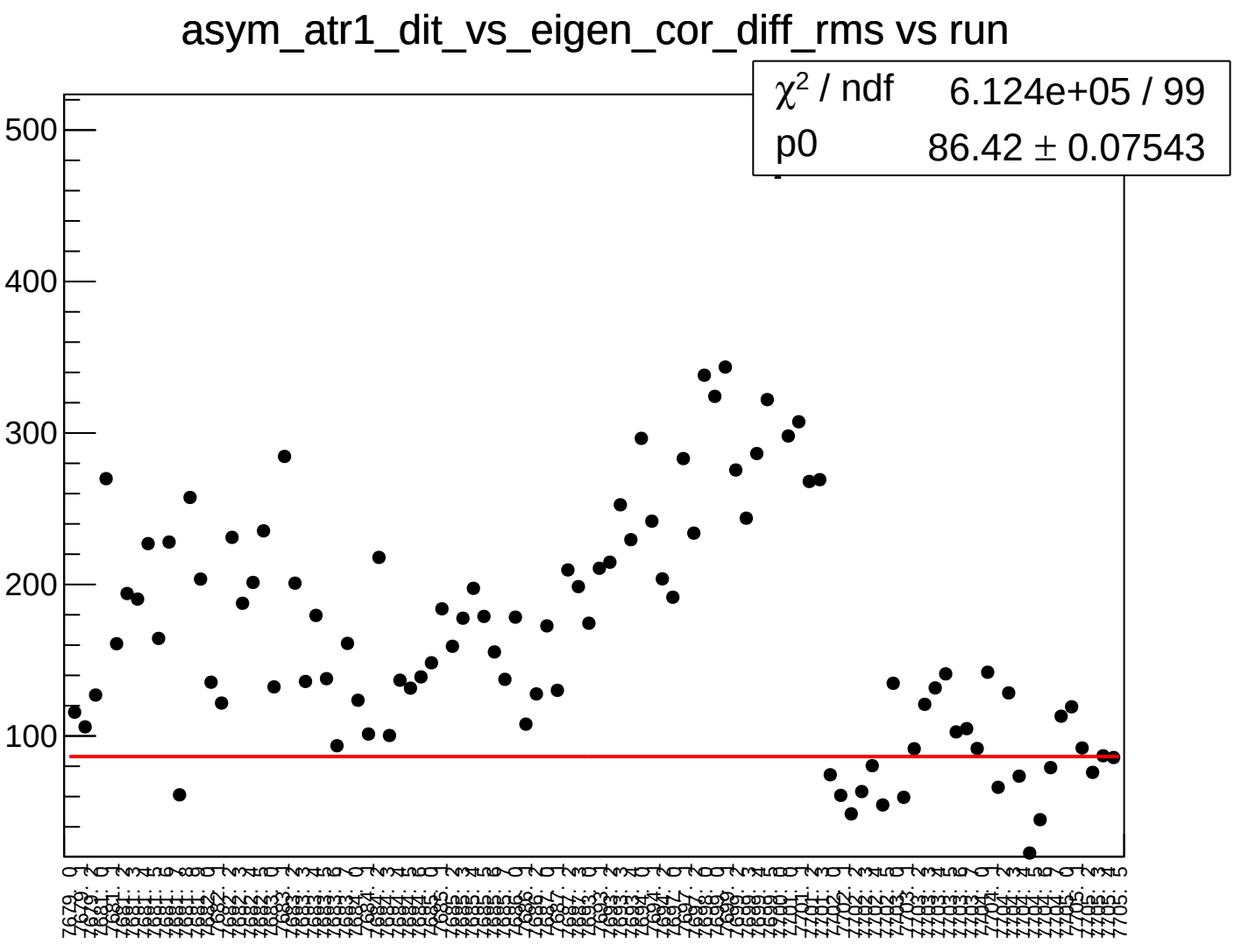

pull1D
Entries 100
Mean −0.02783
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

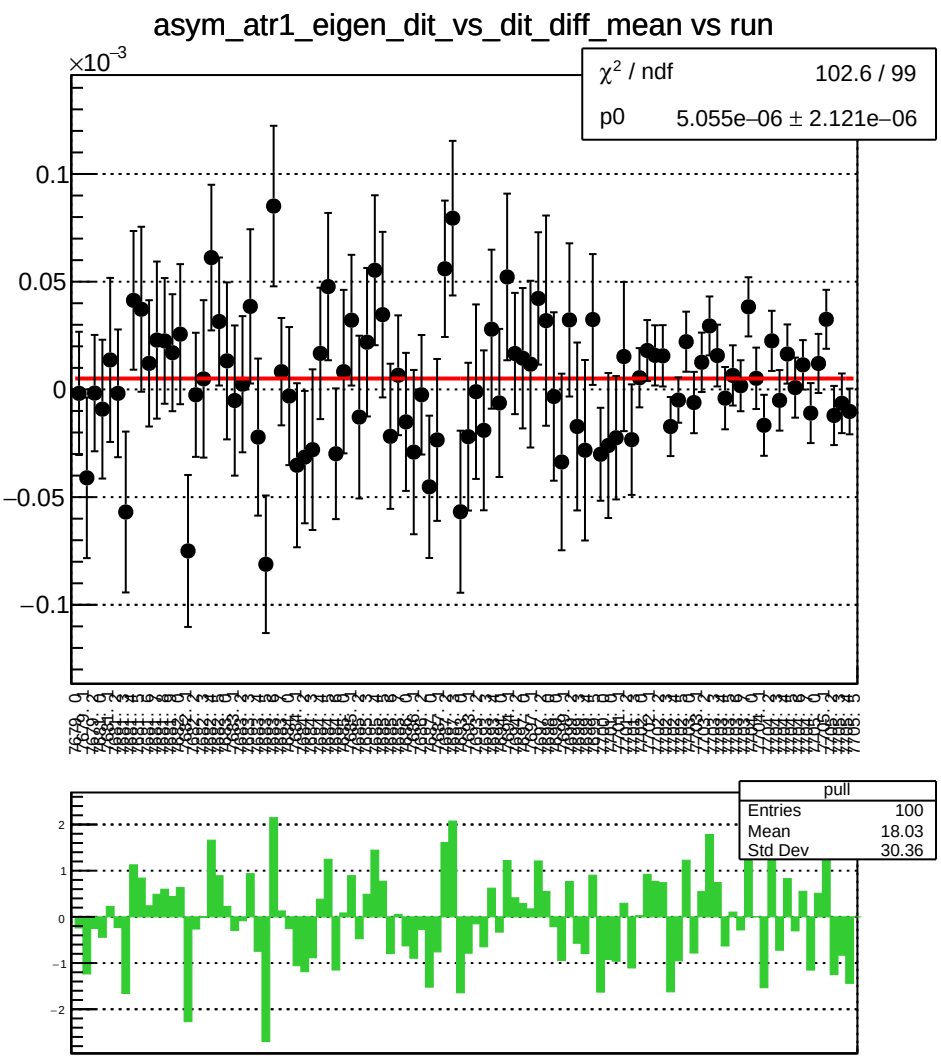

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.209e+06 / 99
p0 7.925e−11 ± 9.366e−14
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

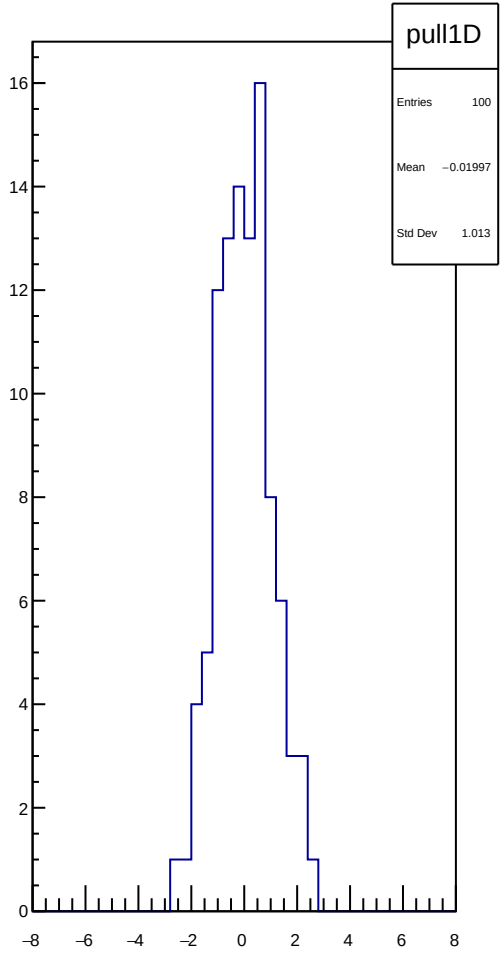

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 93.3 / 99
p0 0.0928 ± 0.1067
pull
Entries 100
Mean 276.8
Std Dev 0
pull1D
Entries 100
Mean −0.01456
Std Dev 0.9658


asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 6.124e+05 / 99
p0 86.42 ± 0.07543
500
400
300
200
100


asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.3 / 99
p0 0.0928 ± 0.1067
pull
Entries 100
Mean 276.8
Std Dev 0
pull1D
Entries 100
Mean −0.01456
Std Dev 0.9658


asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.124e+05 / 99
p0 86.42 ± 0.07543
500
400
300
200
100


asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.6 / 99
p0 5.055e−06 ± 2.121e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 100
Mean 18.03
Std Dev 30.36
2
1
0
−1
−2


pull1D
Entries 100
Mean −0.01997
Std Dev 1.013
16
14
12
10
8
6
4
2
0
−8
−6
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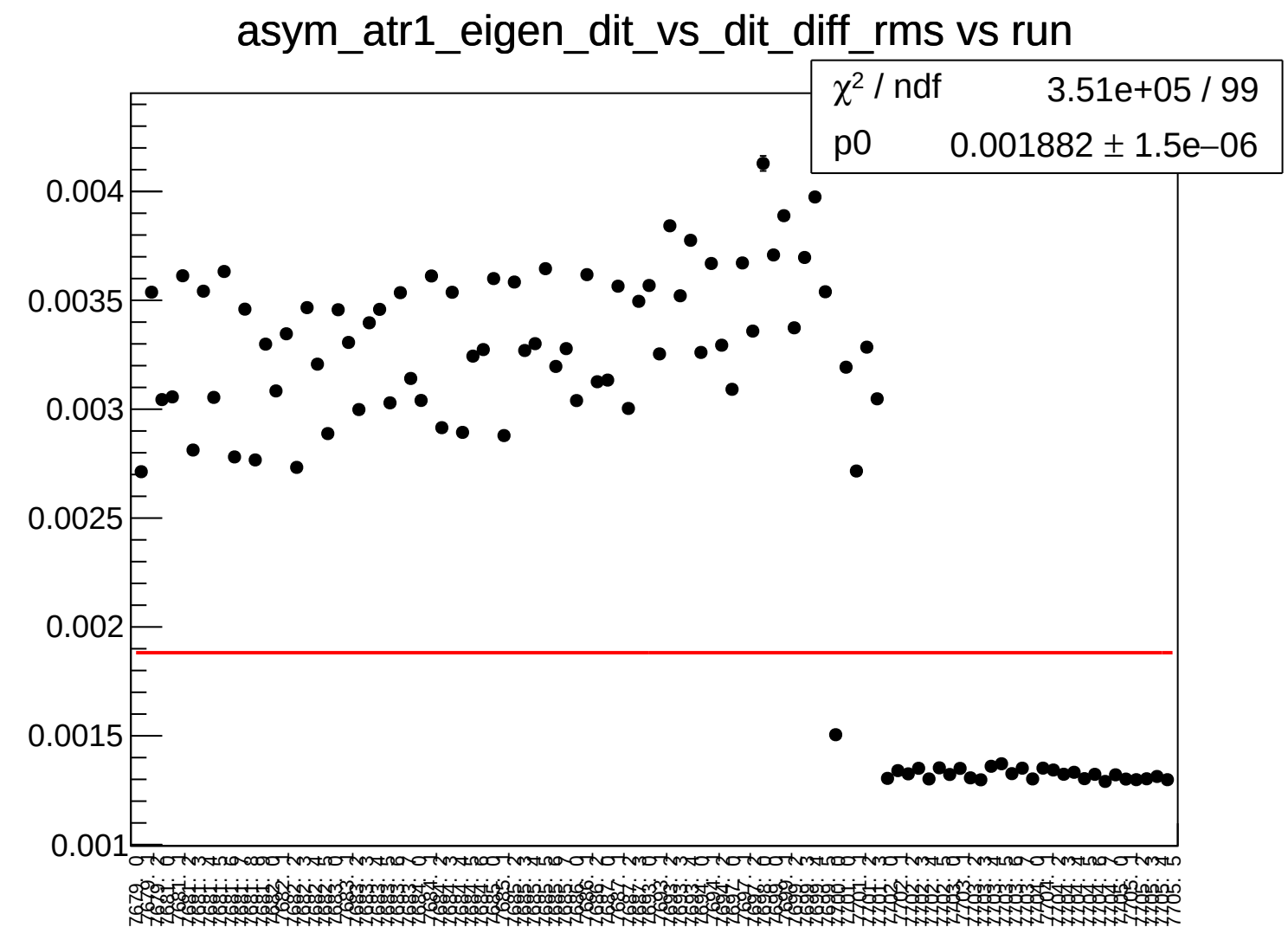
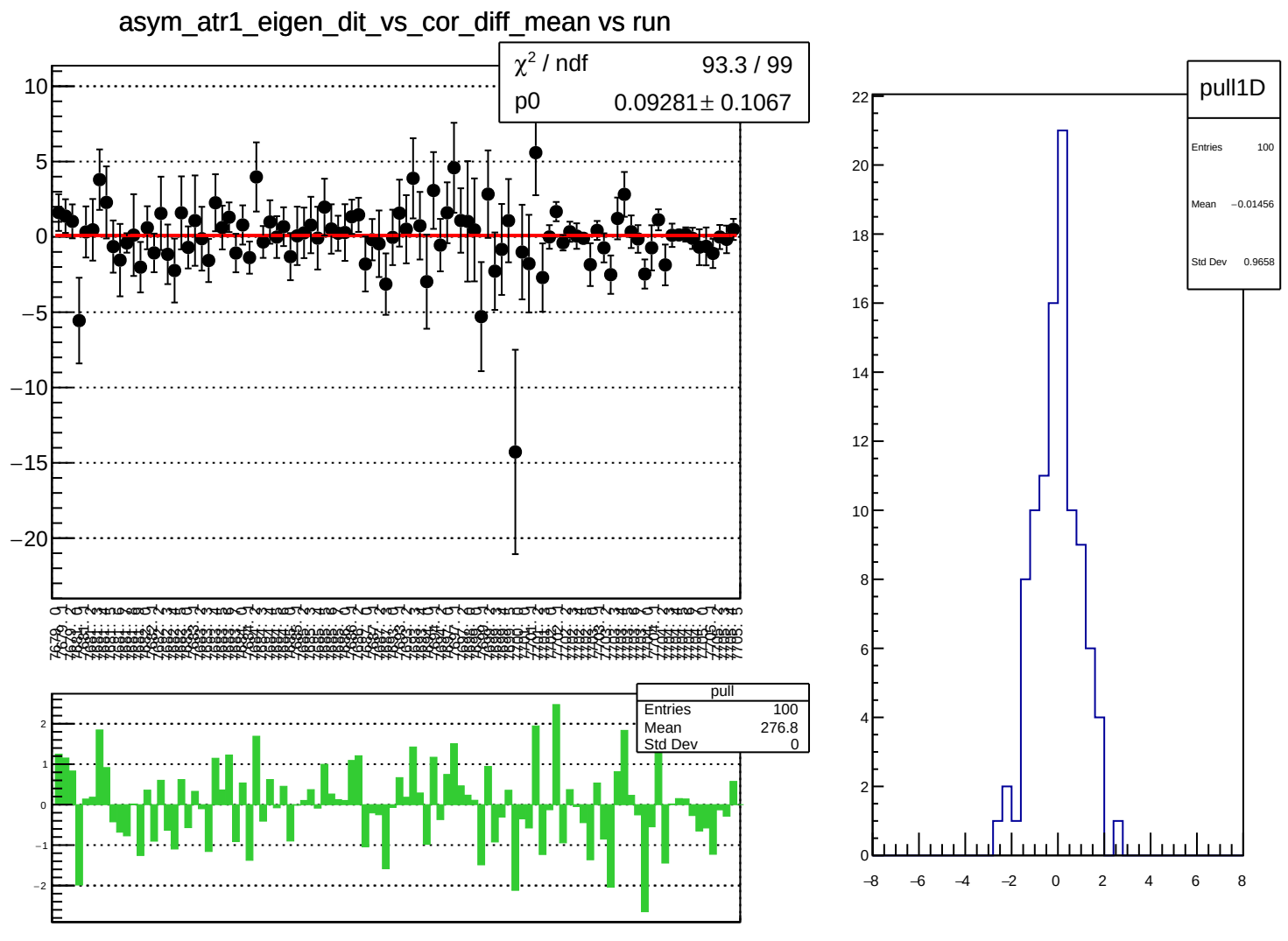
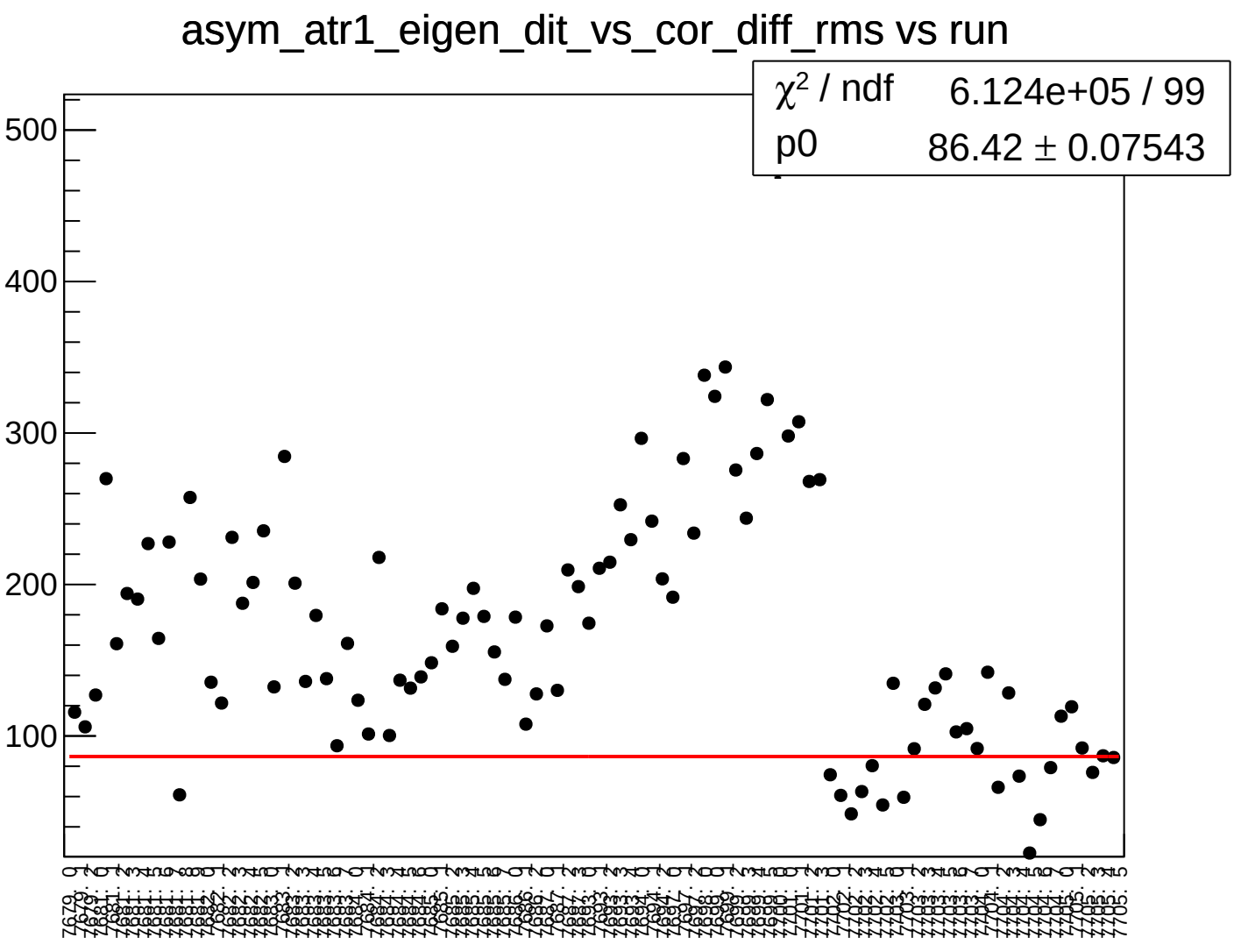
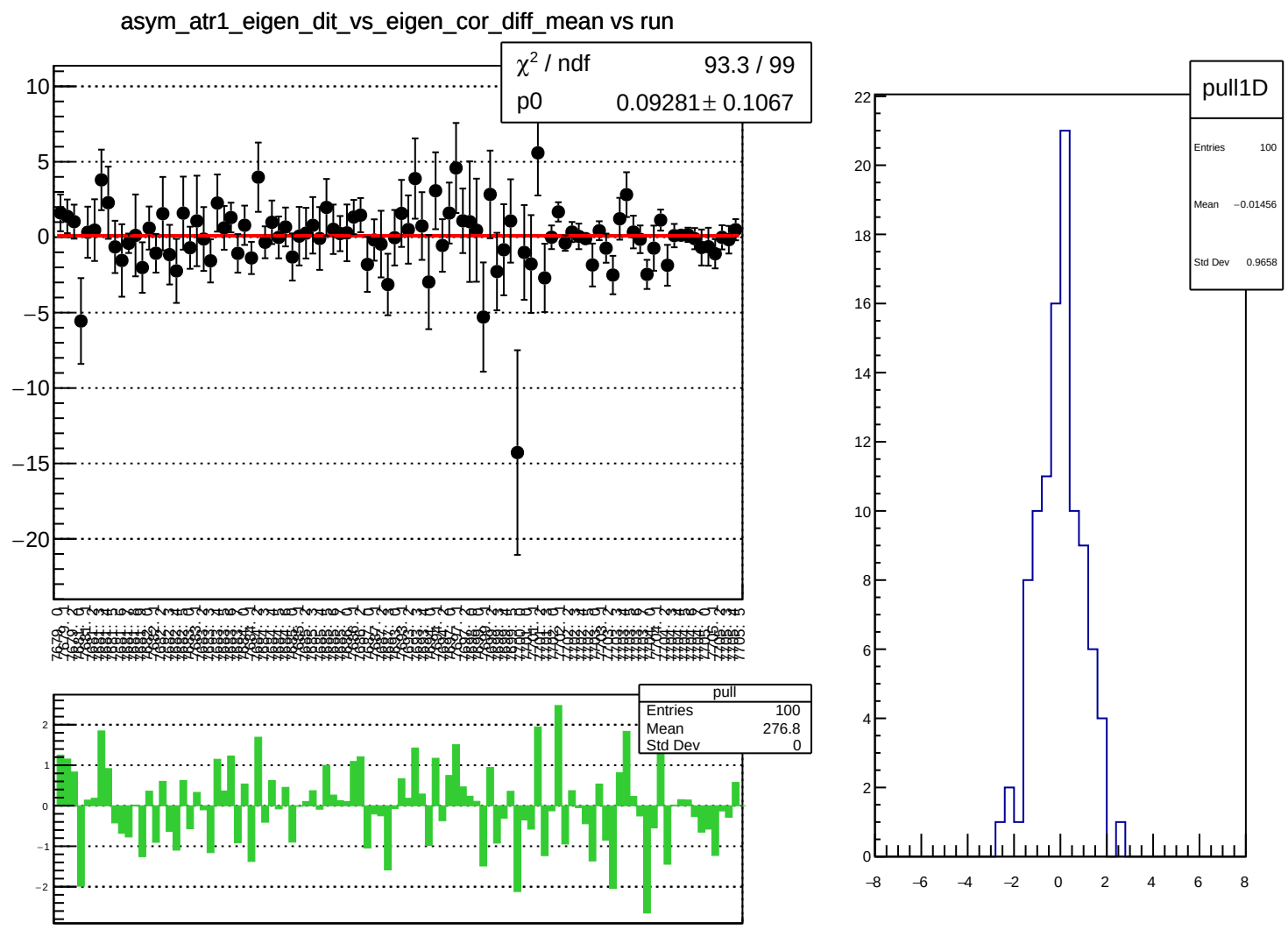
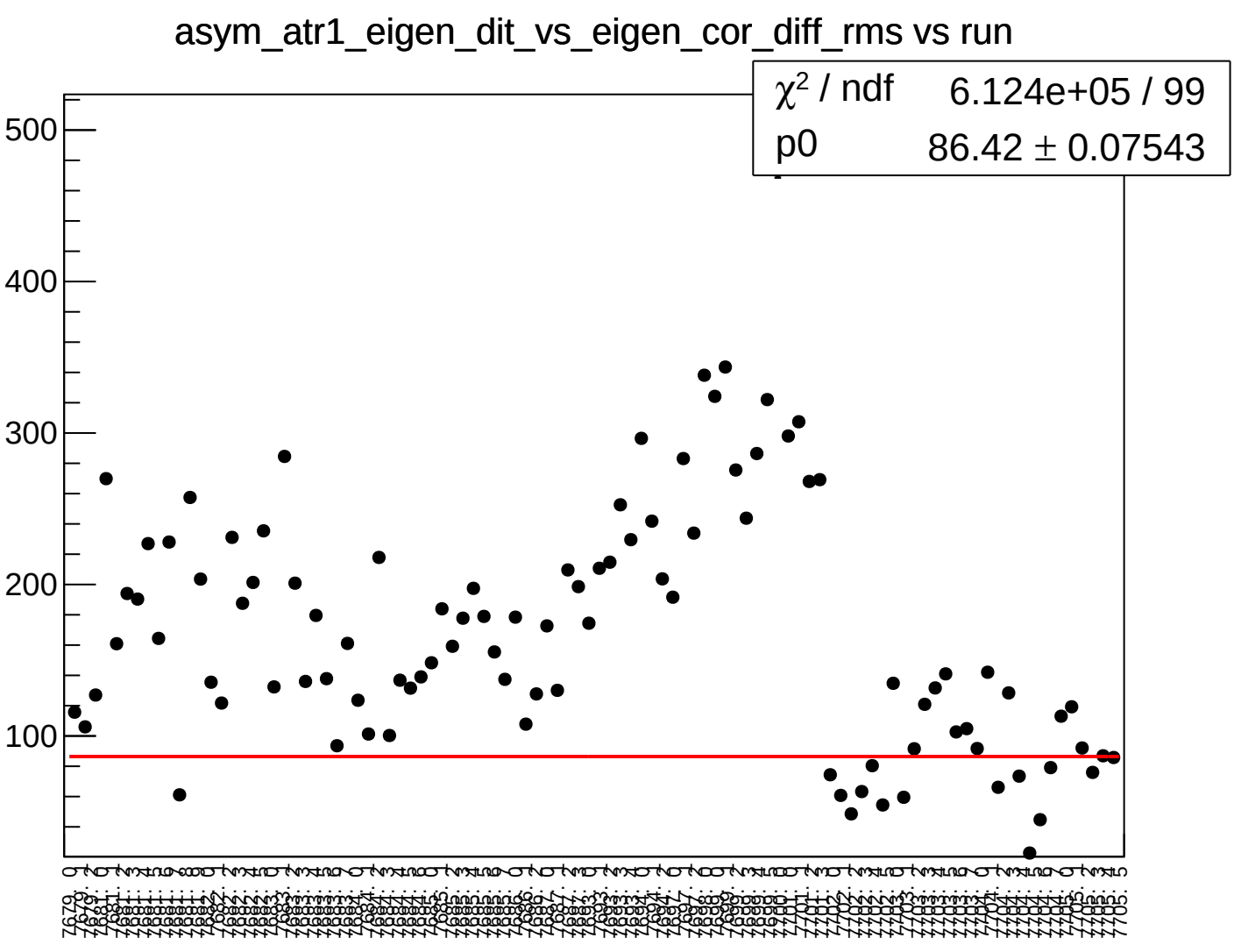
0
2
4
6
8

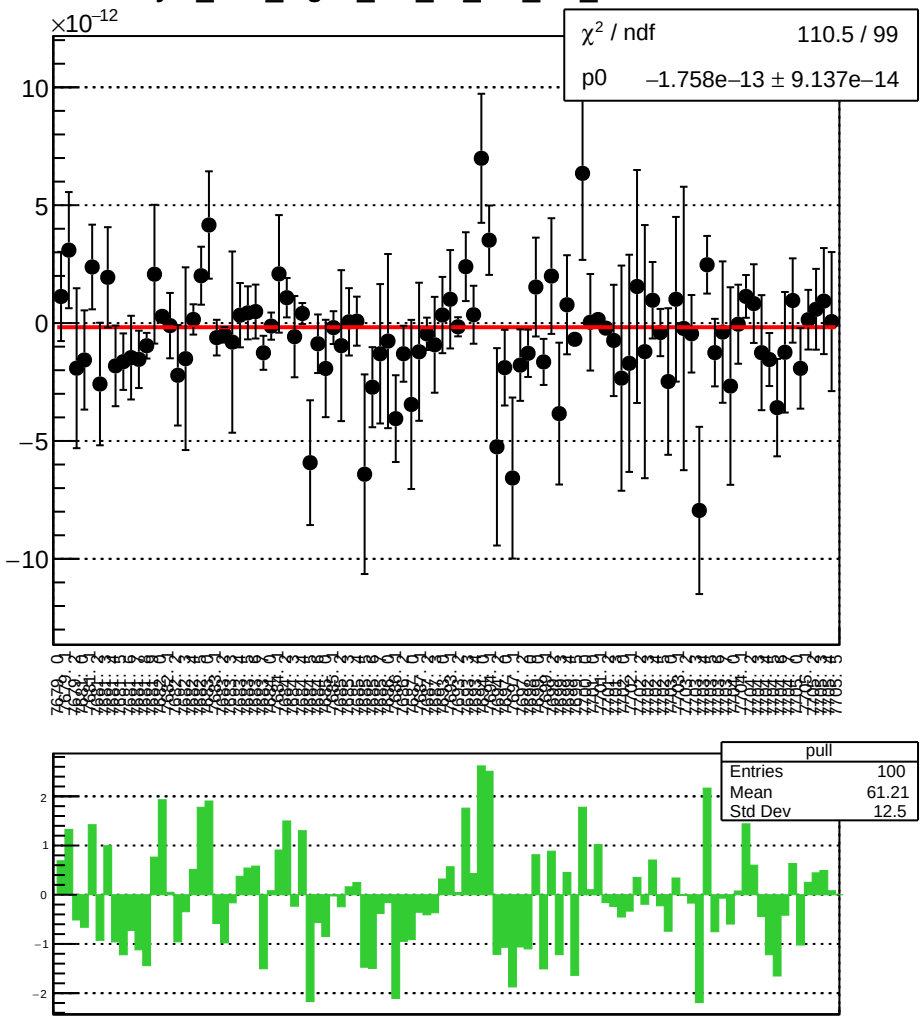

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.51e+05 / 99
p0 0.001882 ± 1.5e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

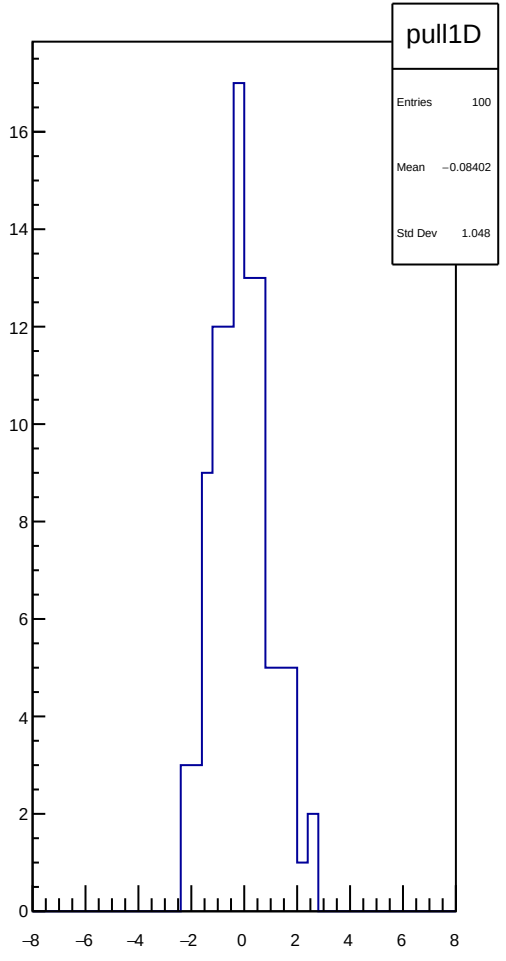

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.3 / 99
p0 0.09281 ± 0.1067
pull
Entries 100
Mean 276.8
Std Dev 0
pull1D
Entries 100
Mean −0.01456
Std Dev 0.9658

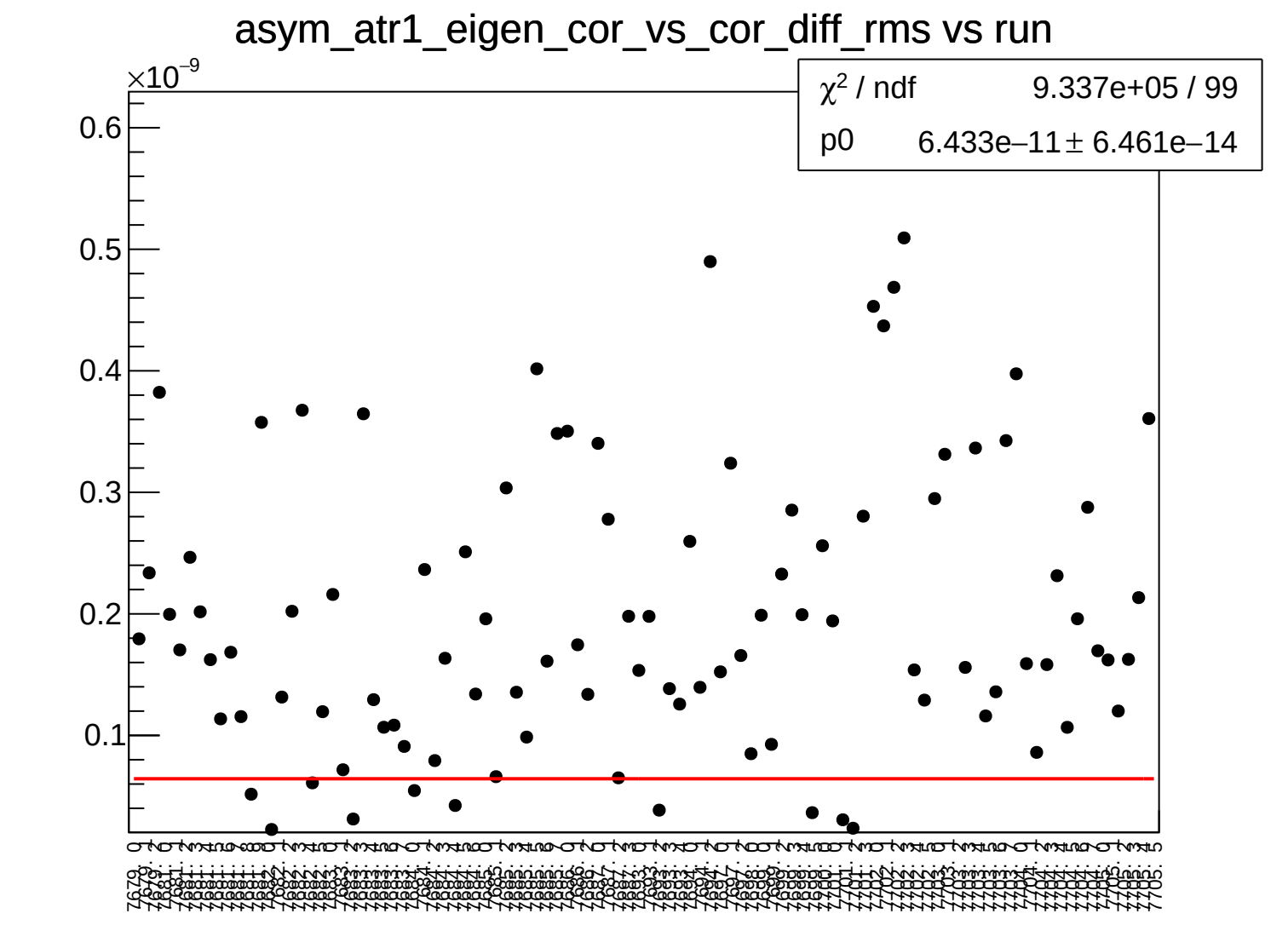

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.124e+05 / 99
p0 86.42 ± 0.07543
500
400
300
200
100

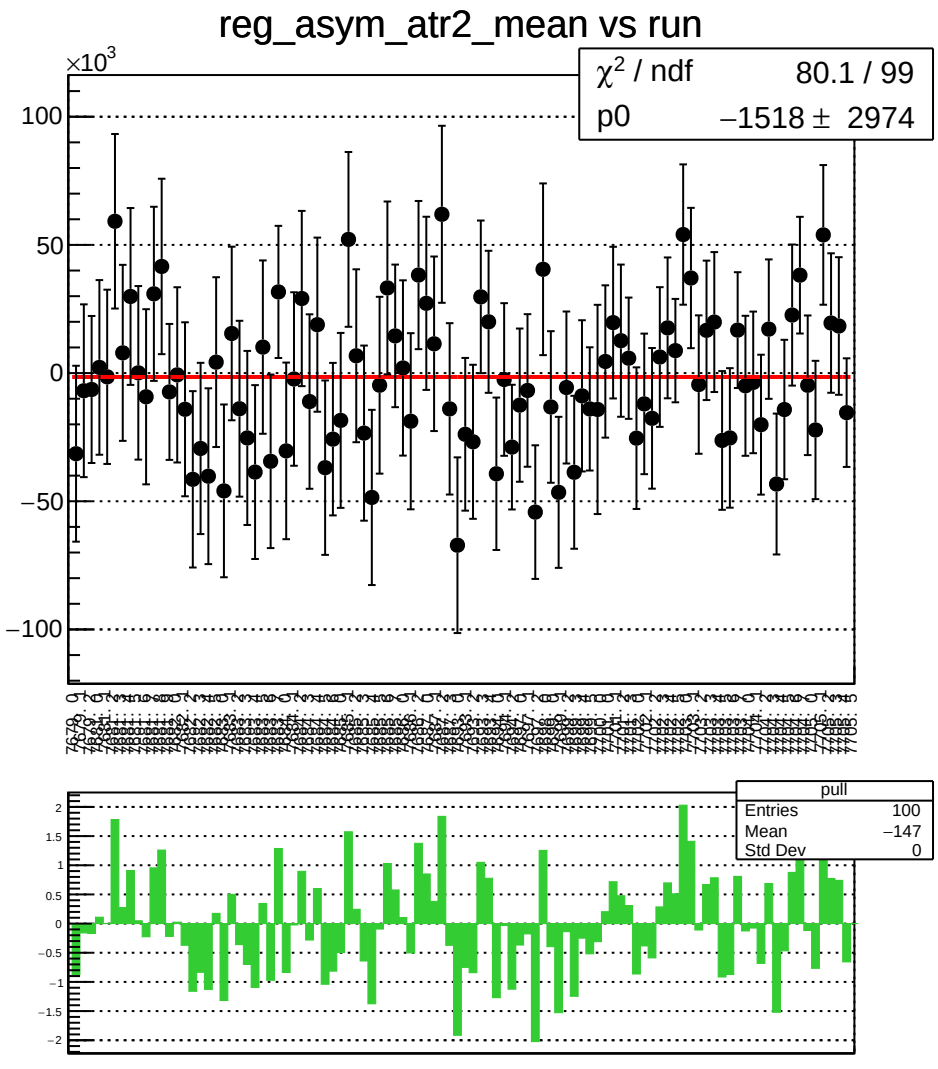

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.3 / 99
p0 0.09281 ± 0.1067
pull
Entries 100
Mean 276.8
Std Dev 0
pull1D
Entries 100
Mean −0.01456
Std Dev 0.9658

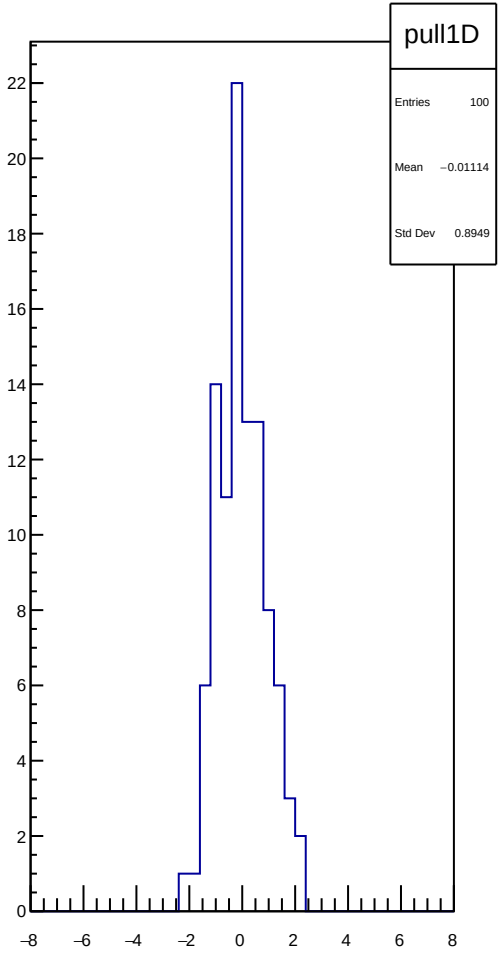

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.124e+05 / 99
p0 86.42 ± 0.07543
500
400
300
200
100

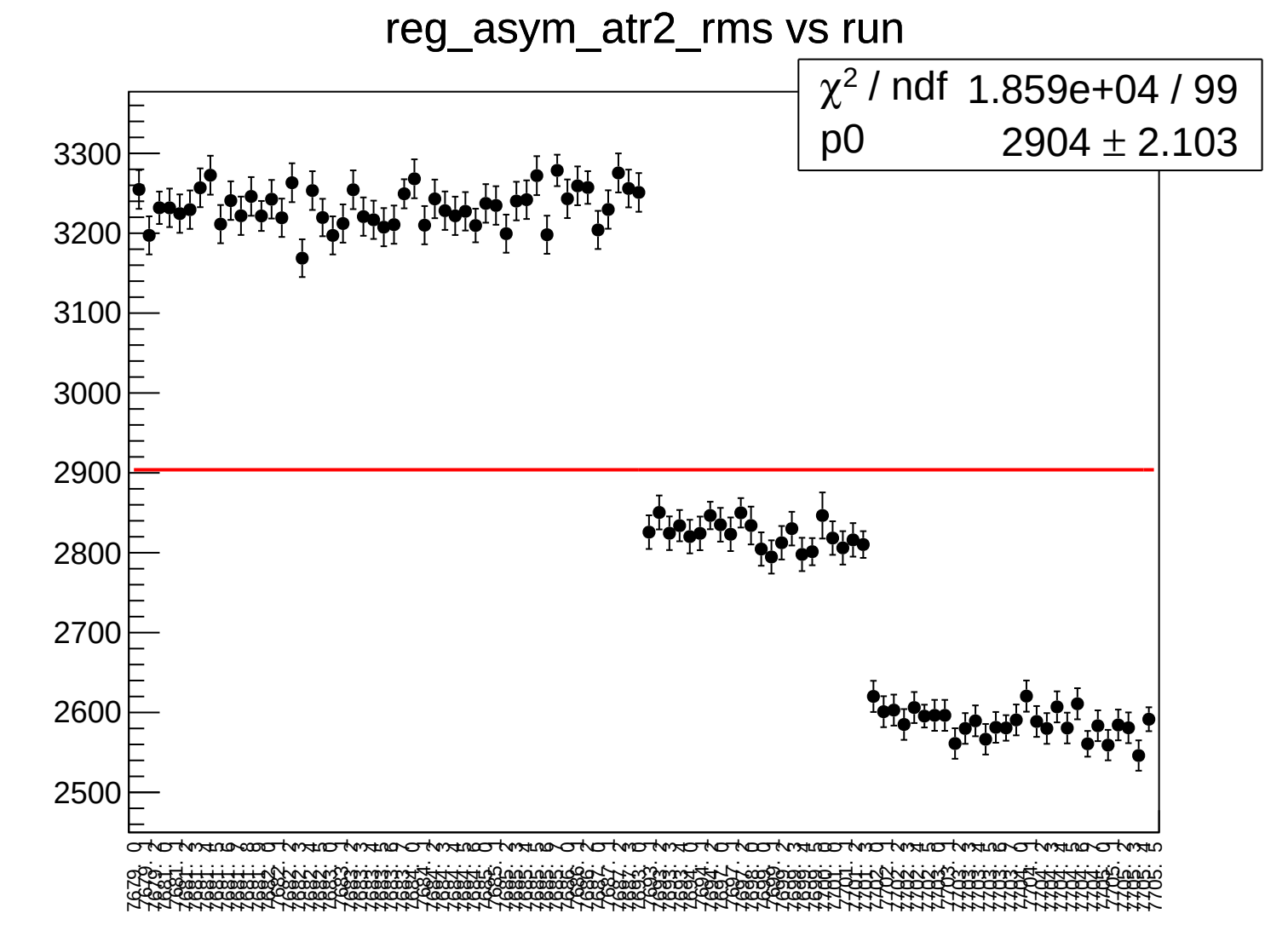

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 110.5 / 99
p0 −1.758e−13 ± 9.137e−14
10
5
0
−5
−10
pull
Entries 100
Mean 61.21
Std Dev 12.5
2
1
0
−1
−2

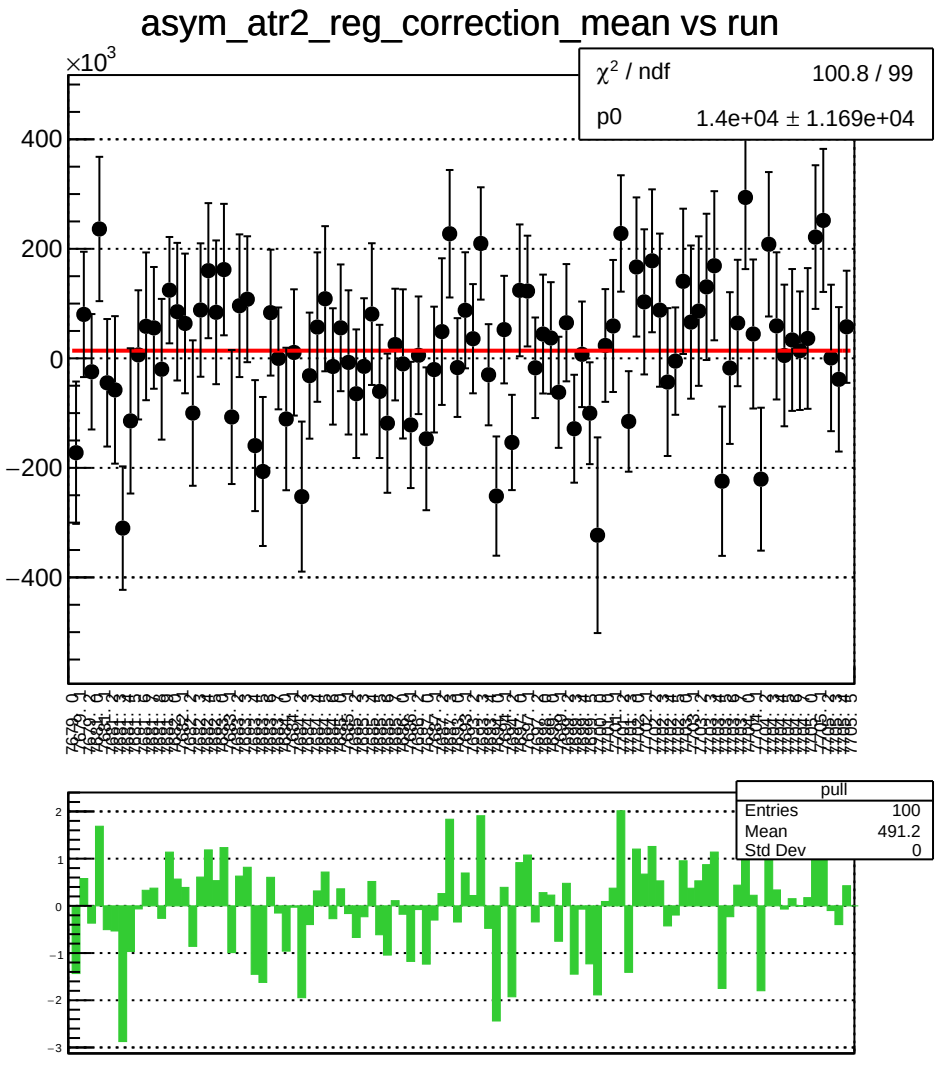

pull1D
Entries 100
Mean −0.08402
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

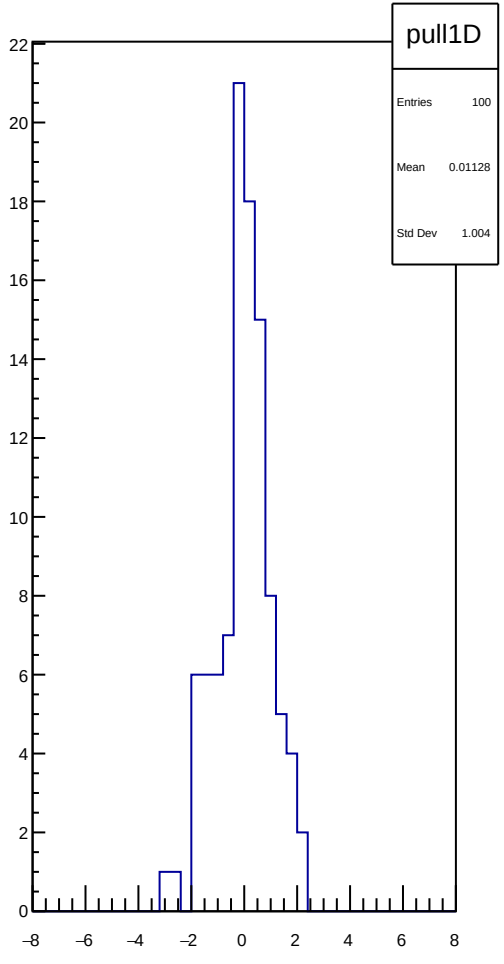

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.337e+05 / 99
p0 6.433e−11 ± 6.461e−14
0.6
0.5
0.4
0.3
0.2
0.1

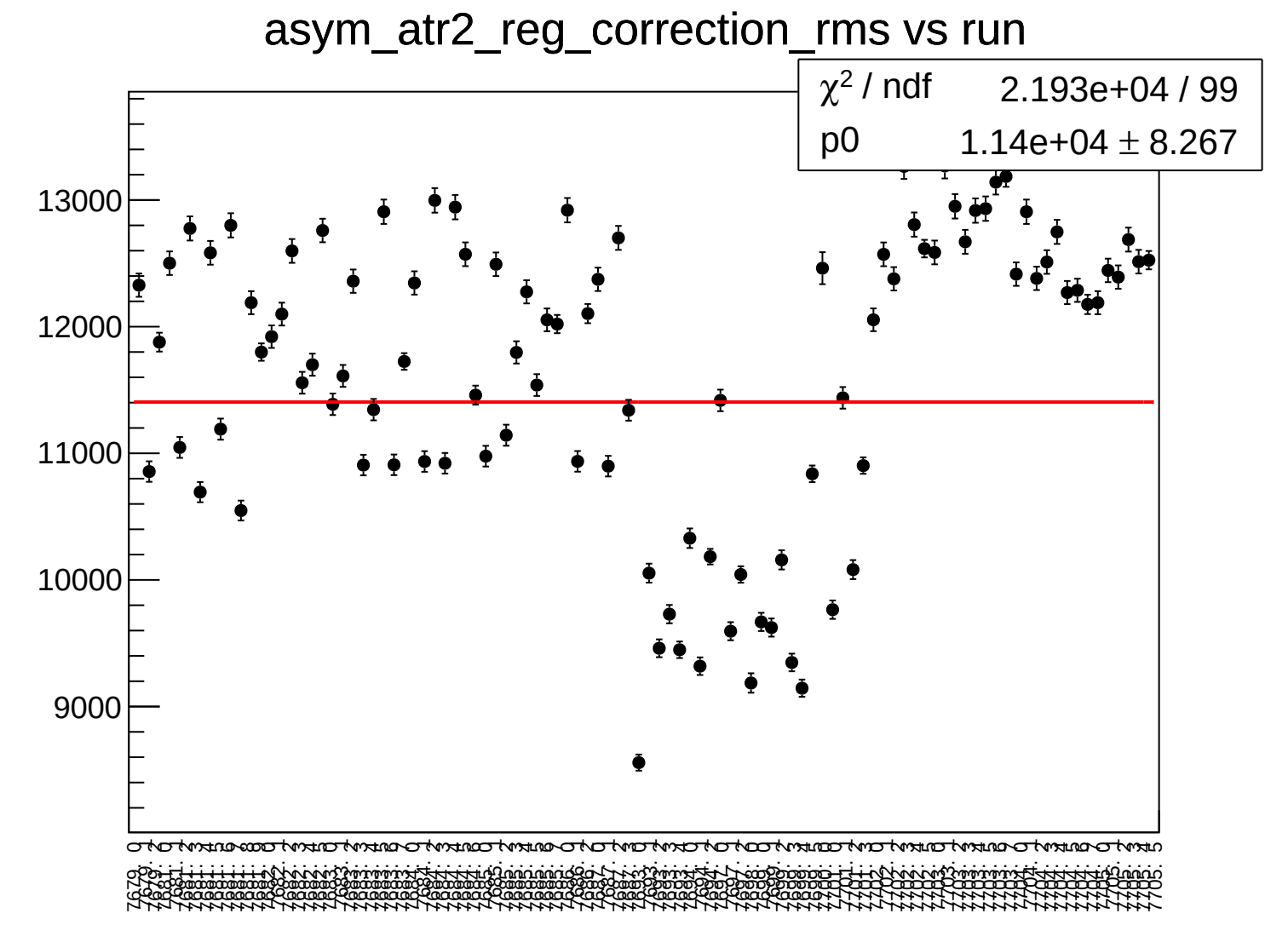

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 80.1 / 99
p0 −1518 ± 2974
100
50
0
−50
−100
pull
Entries 100
Mean −147
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

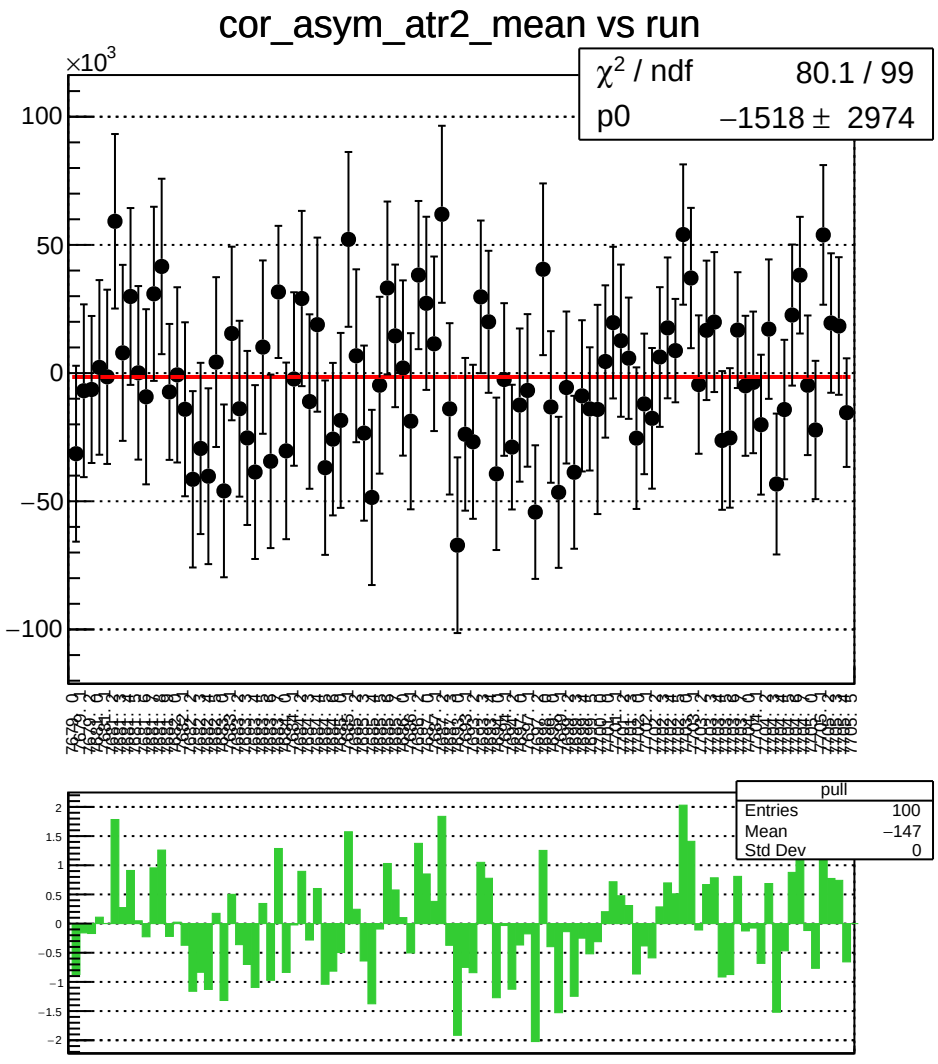

pull1D
Entries 100
Mean −0.01114
Std Dev 0.8949
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

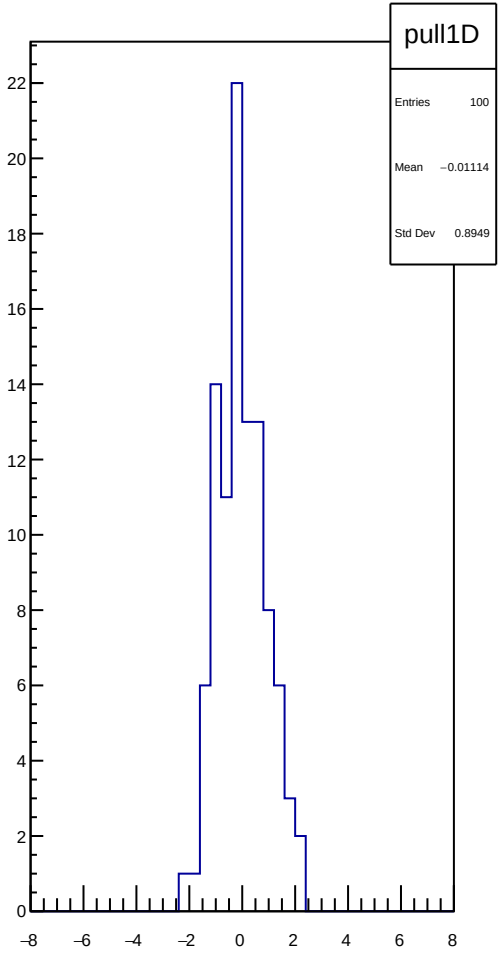

reg_asym_atr2_rms vs run
χ^2 / ndf 1.859e+04 / 99
p0 2904 ± 2.103
3300
3200
3100
3000
2900
2800
2700
2600
2500

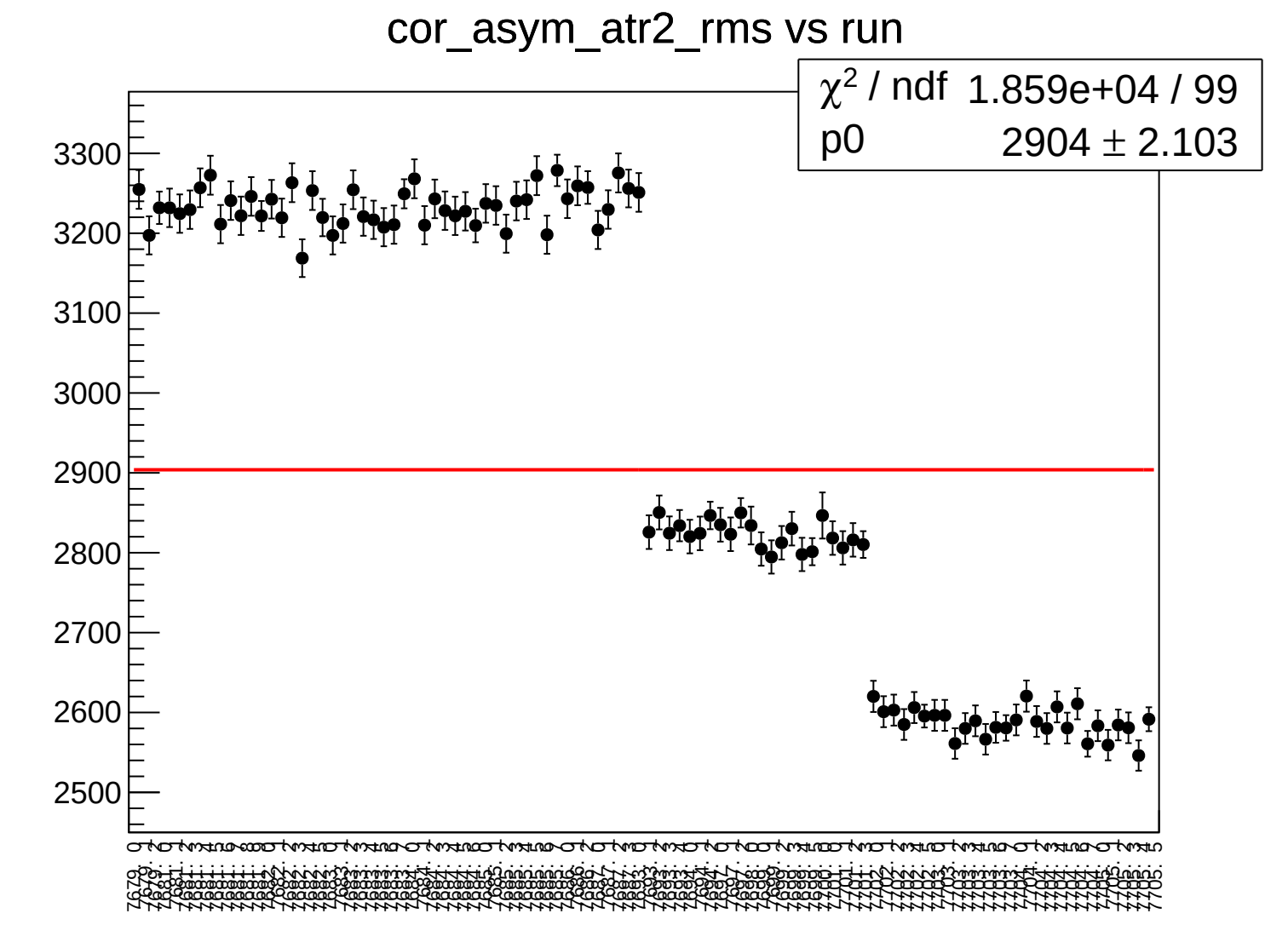

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 100.8 / 99
p0 1.4e+04 ± 1.169e+04
400
200
0
−200
−400
pull
Entries 100
Mean 491.2
Std Dev 0
2
1
0
−1
−2
−3

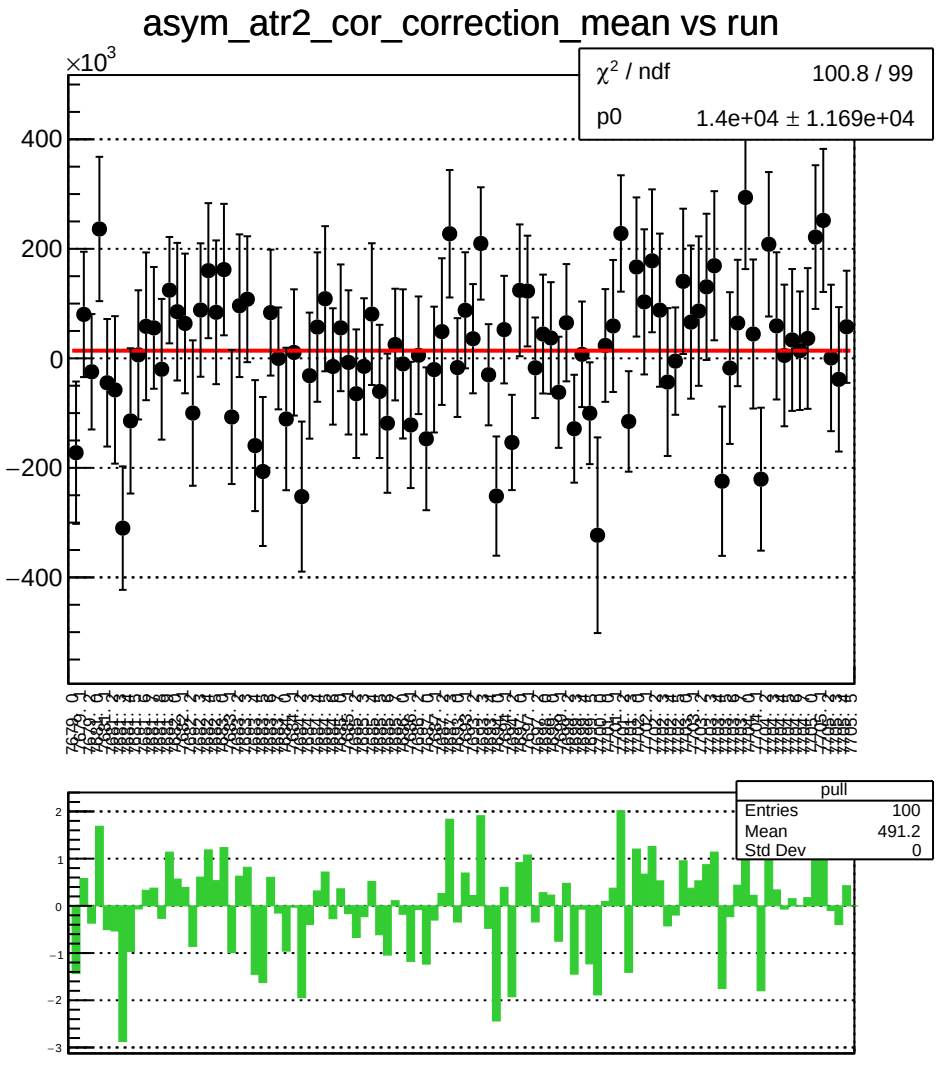

pull1D
Entries 100
Mean 0.01128
Std Dev 1.004
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

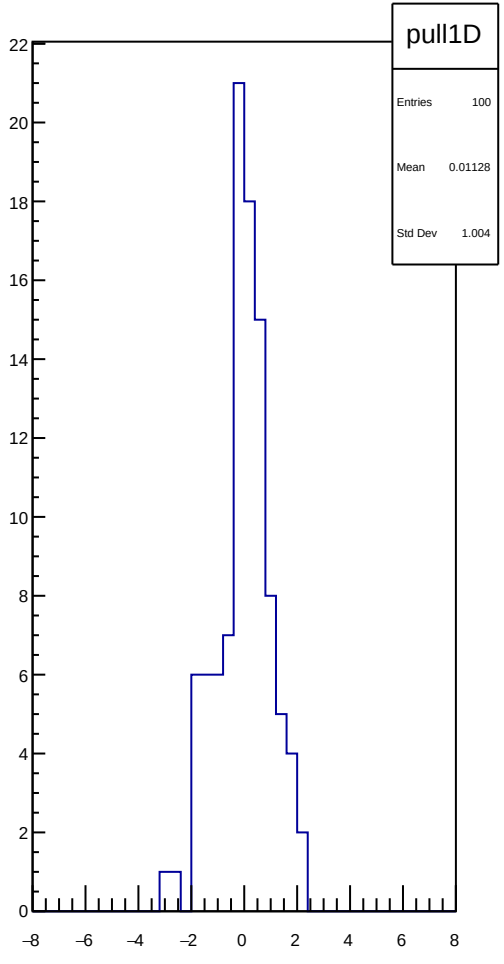

asym_atr2_reg_correction_rms vs run
χ² / ndf 2.193e+04 / 99
p0 1.14e+04 ± 8.267
13000
12000
11000
10000
9000

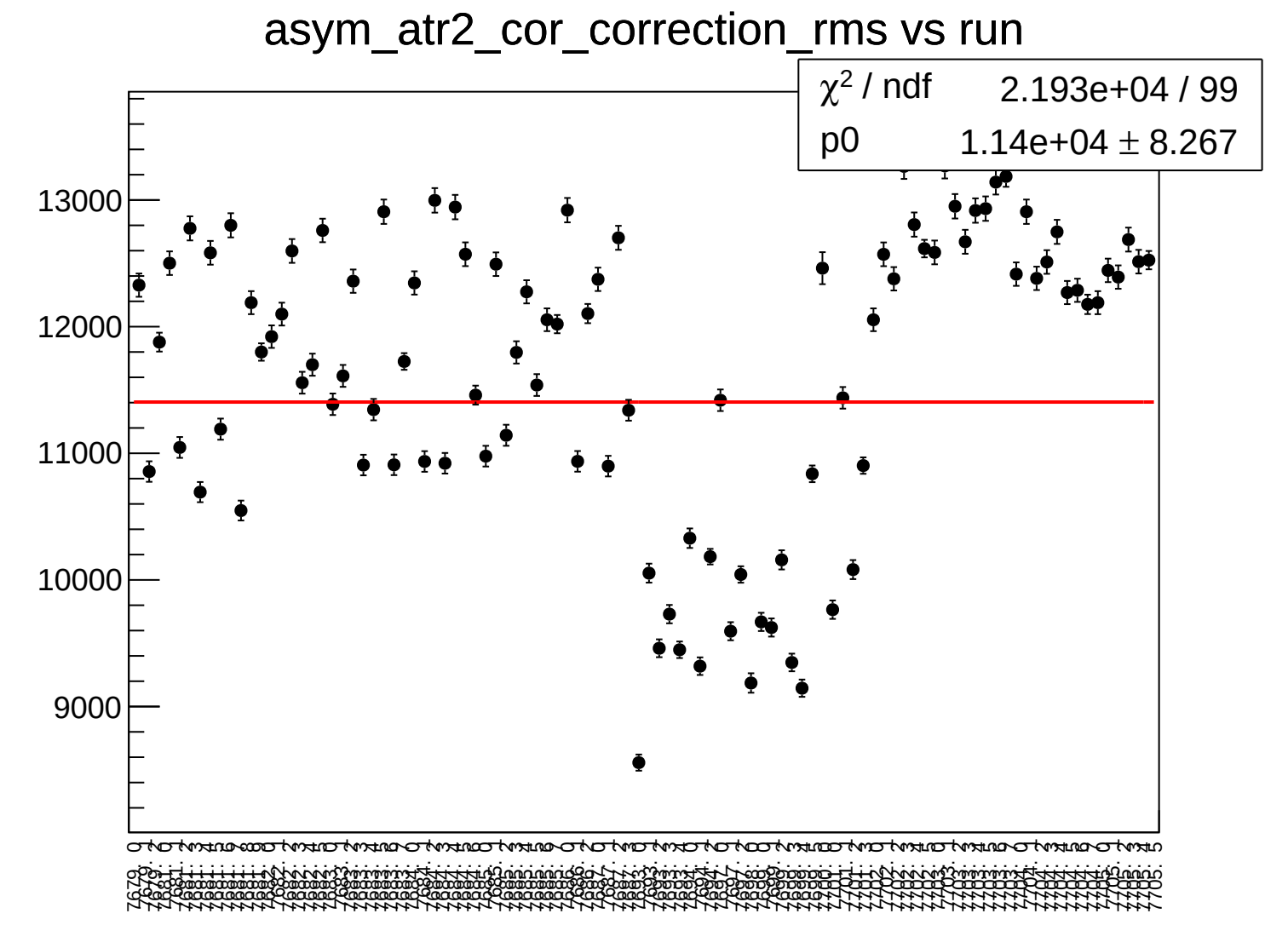

cor_asym_atr2_mean vs run
×10^3
χ² / ndf 80.1 / 99
p0 −1518 ± 2974
100
50
0
−50
−100
pull
Entries 100
Mean −147
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

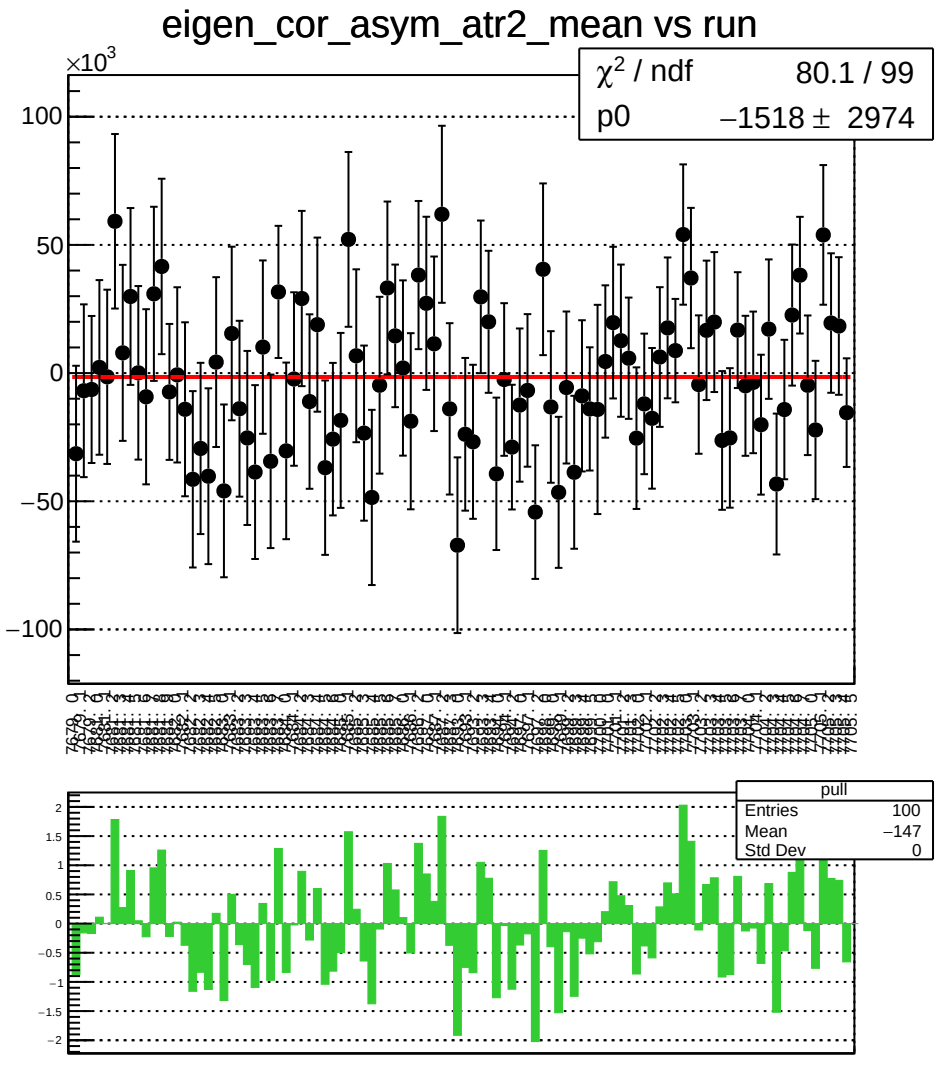

pull1D
Entries 100
Mean −0.01114
Std Dev 0.8949
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

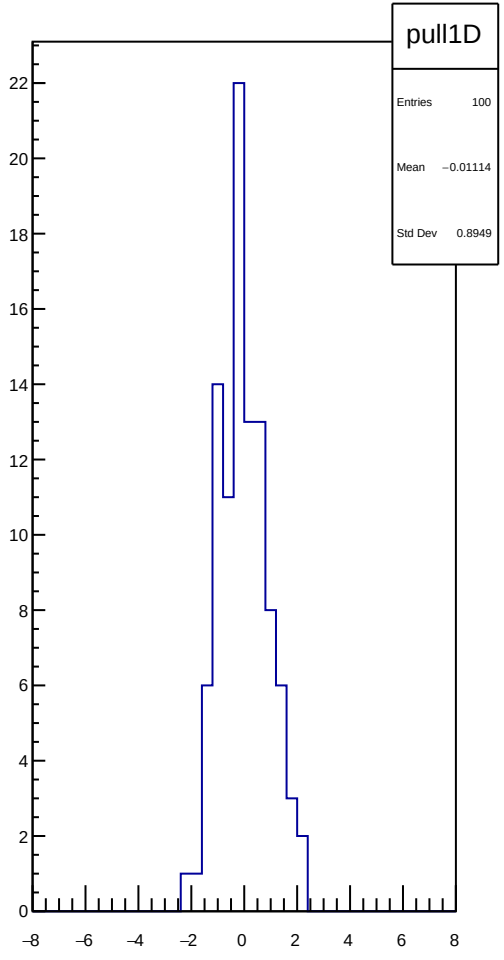

cor_asym_atr2_rms vs run
χ² / ndf 1.859e+04 / 99
p0 2904 ± 2.103
3300
3200
3100
3000
2900
2800
2700
2600
2500

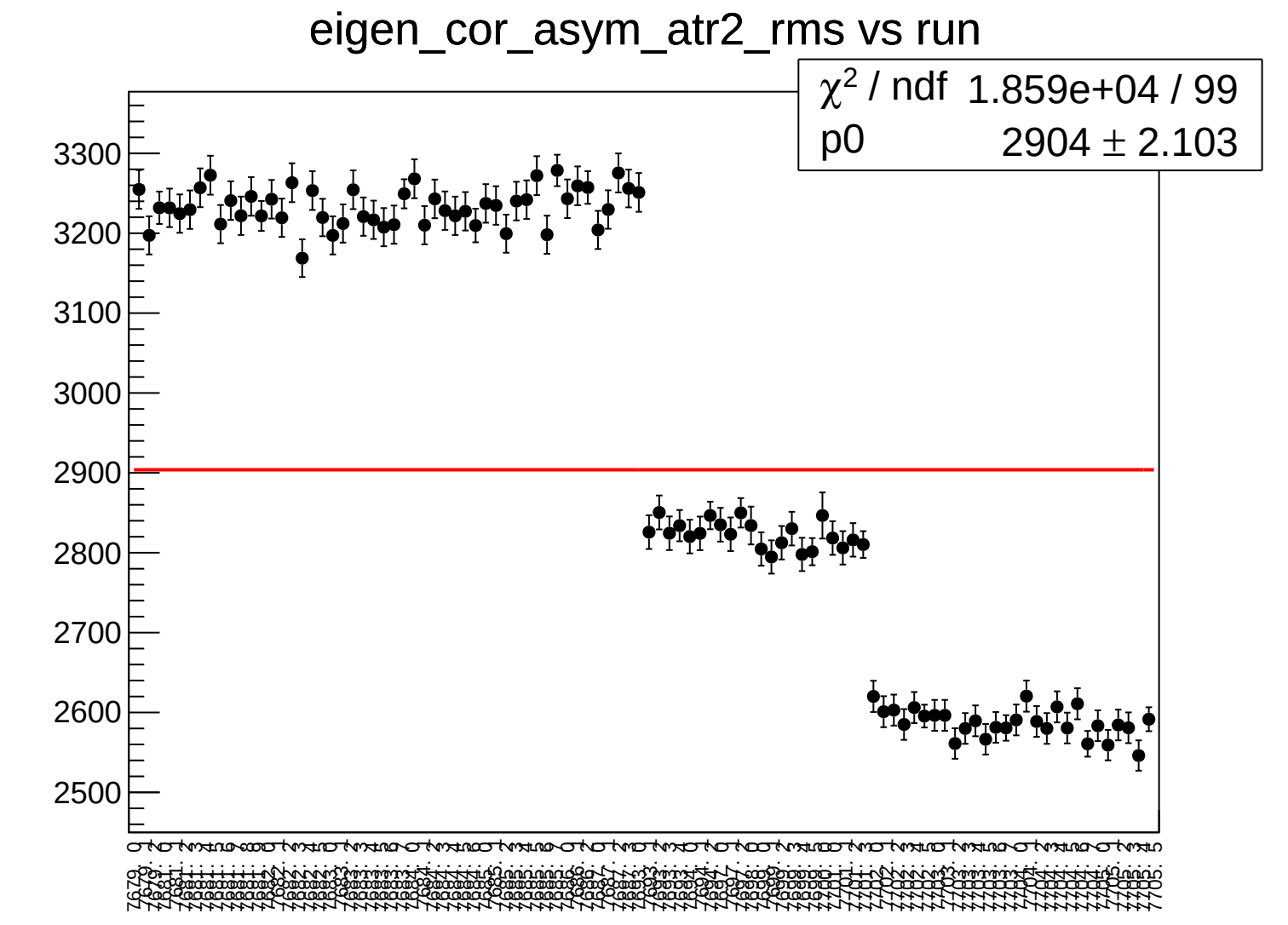

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 100.8 / 99
p0 1.4e+04 ± 1.169e+04
400
200
0
−200
−400
pull
Entries 100
Mean 491.2
Std Dev 0
2
1
0
−1
−2
−3

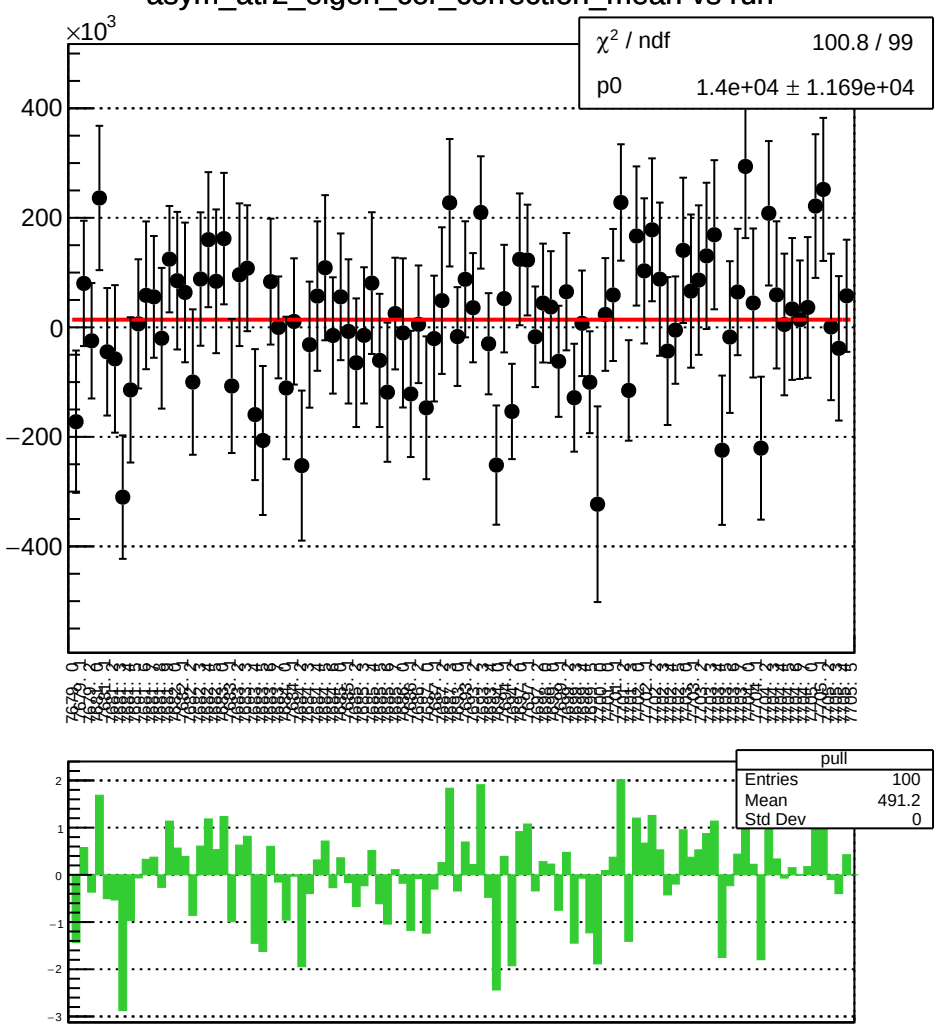

pull1D
Entries 100
Mean 0.01128
Std Dev 1.004
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

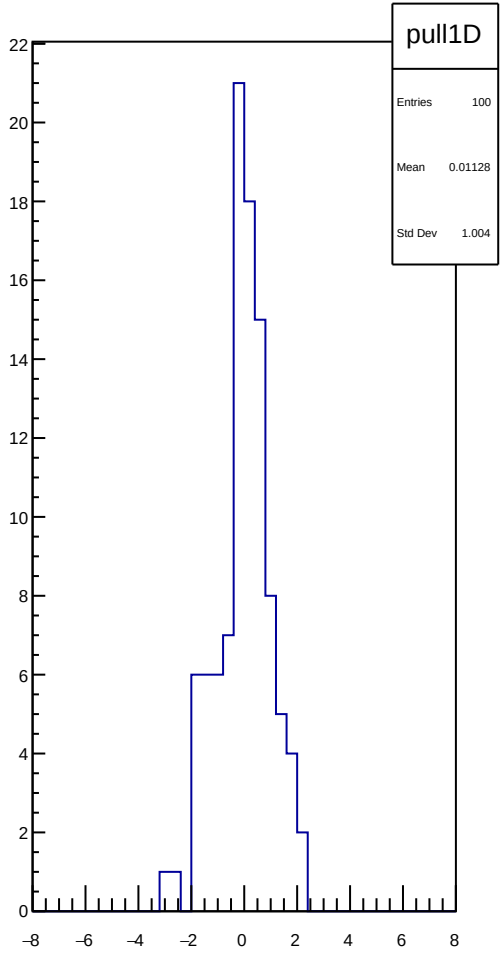

asym_atr2_cor_correction_rms vs run
χ² / ndf 2.193e+04 / 99
p0 1.14e+04 ± 8.267
13000
12000
11000
10000
9000

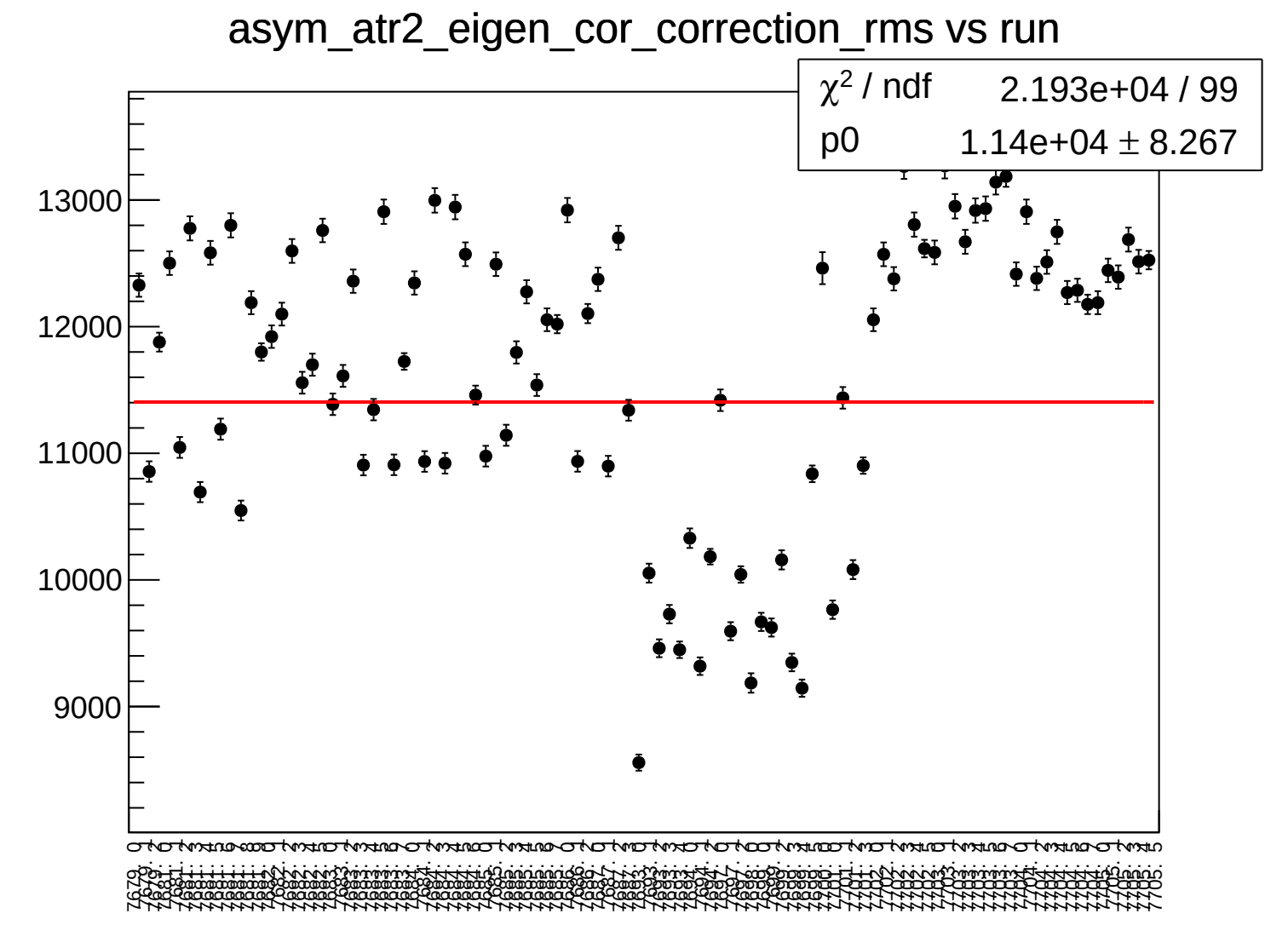

eigen_cor_asym_atr2_mean vs run
×10^3
χ² / ndf 80.1 / 99
p0 −1518 ± 2974
100
50
0
−50
−100
pull
Entries 100
Mean −147
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

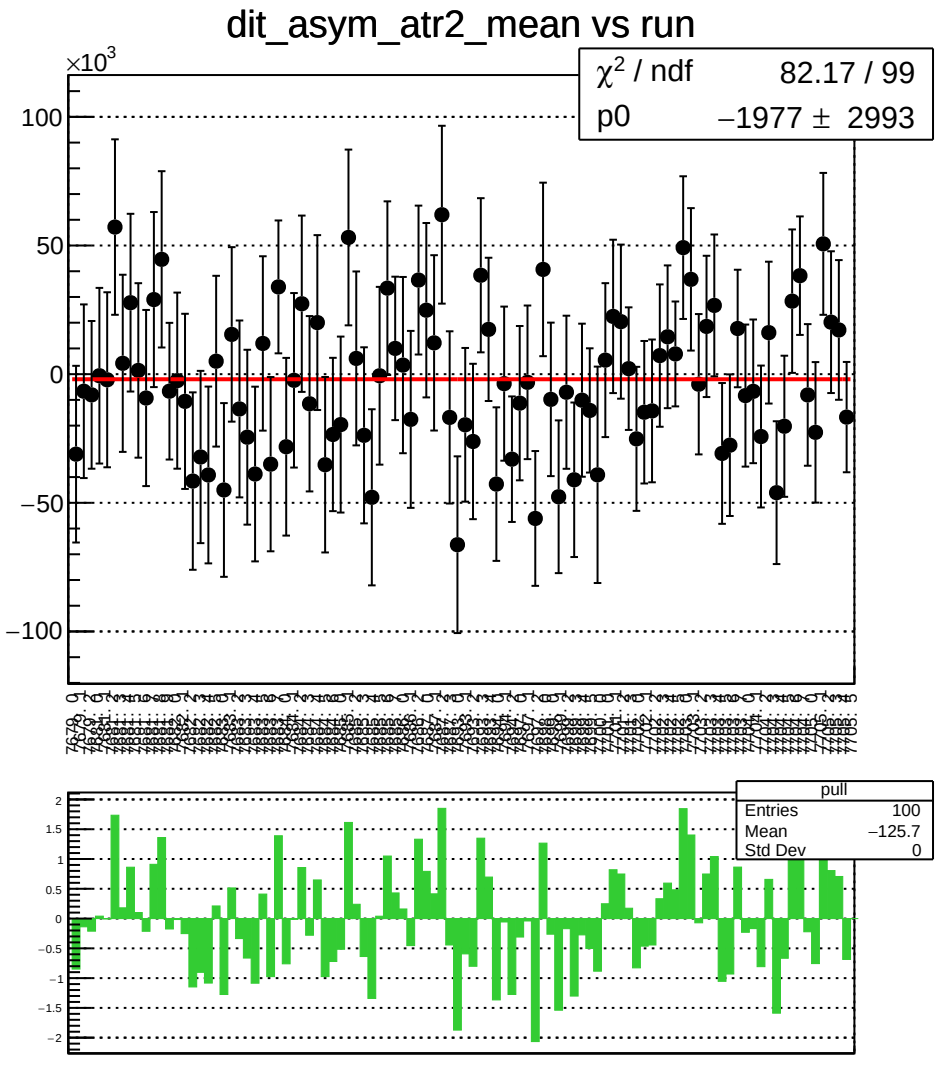

pull1D
Entries 100
Mean −0.01114
Std Dev 0.8949
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

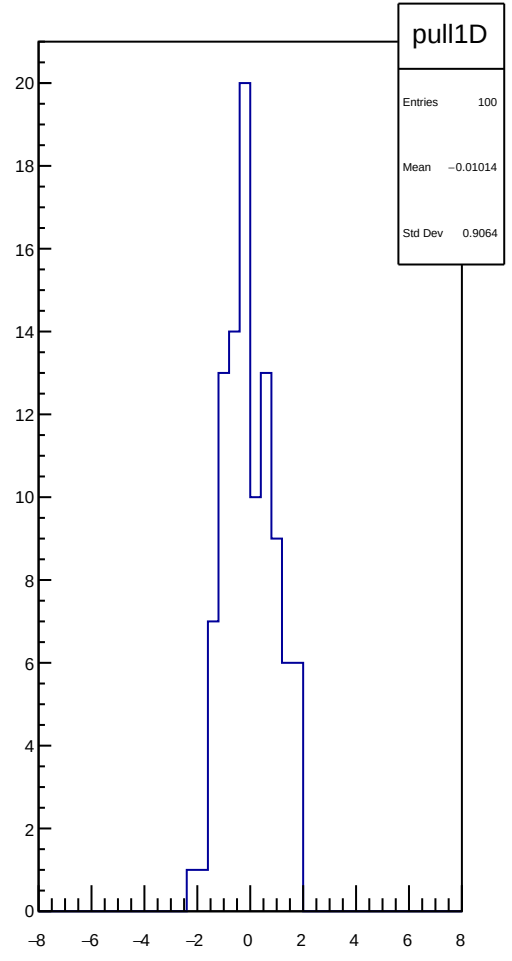

eigen_cor_asym_atr2_rms vs run
χ² / ndf 1.859e+04 / 99
p0 2904 ± 2.103
3300
3200
3100
3000
2900
2800
2700
2600
2500

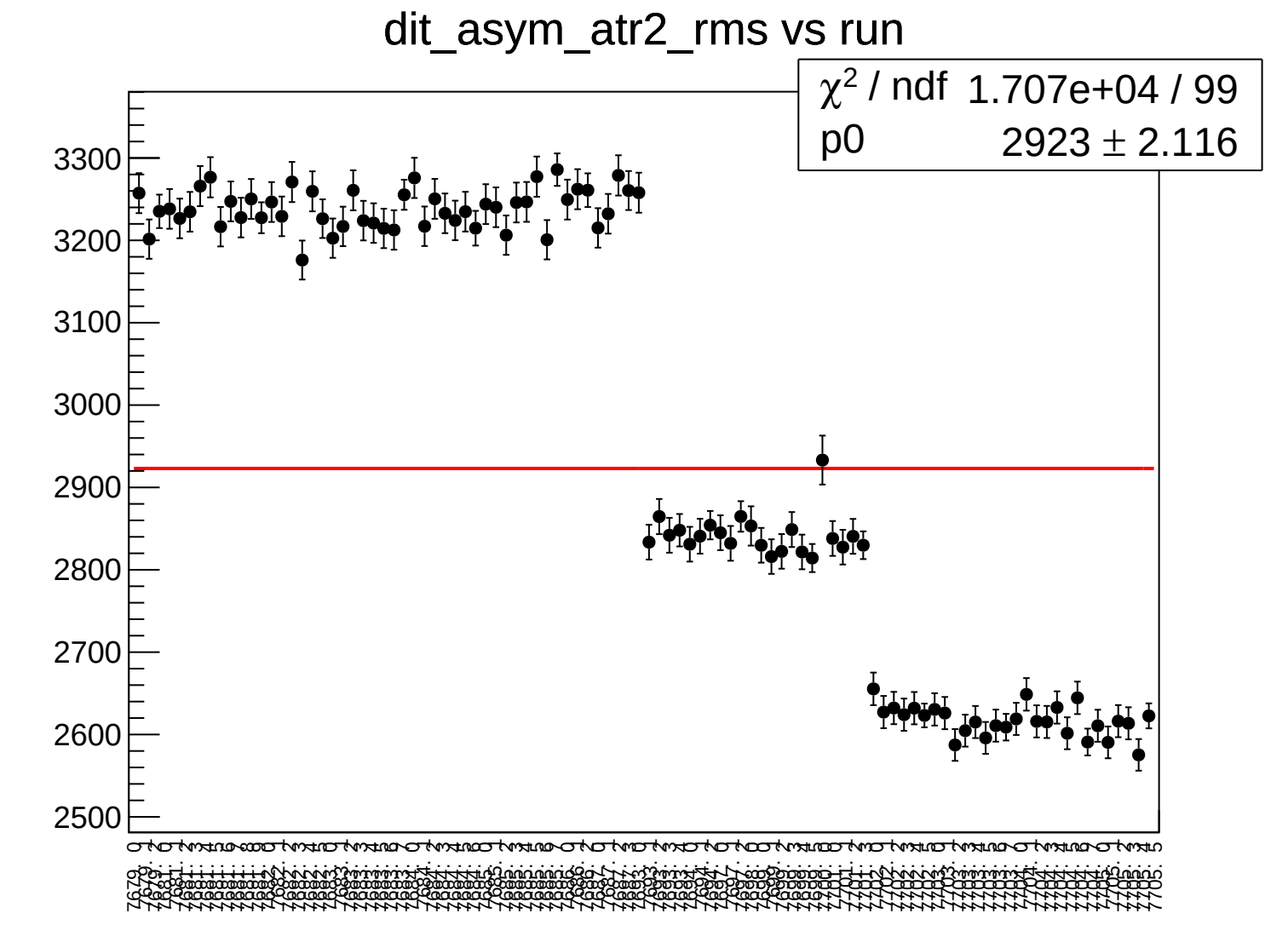

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 100.8 / 99
p0 1.4e+04 ± 1.169e+04
400
200
0
−200
−400
pull
Entries 100
Mean 491.2
Std Dev 0
2
1
0
−1
−2
−3

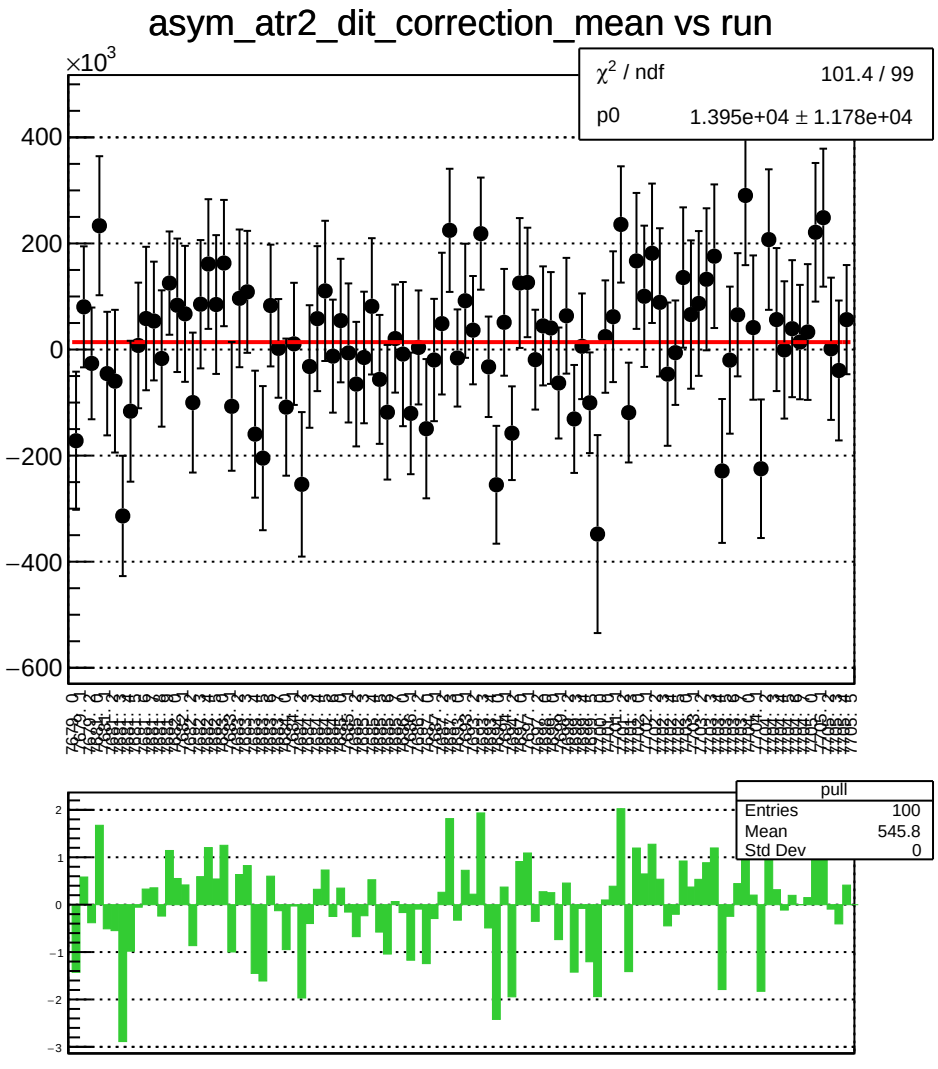

pull1D
Entries 100
Mean 0.01128
Std Dev 1.004
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

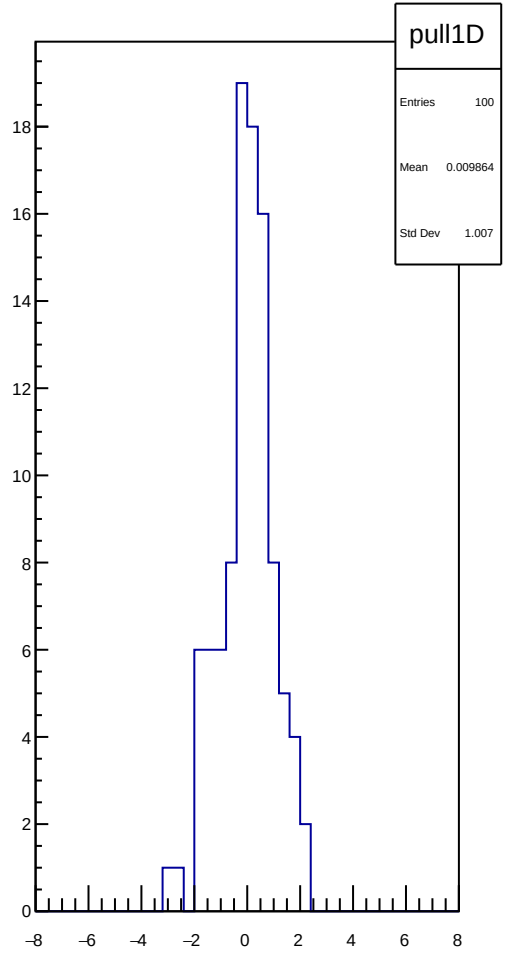

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 2.193e+04 / 99
p0 1.14e+04 ± 8.267
13000
12000
11000
10000
9000

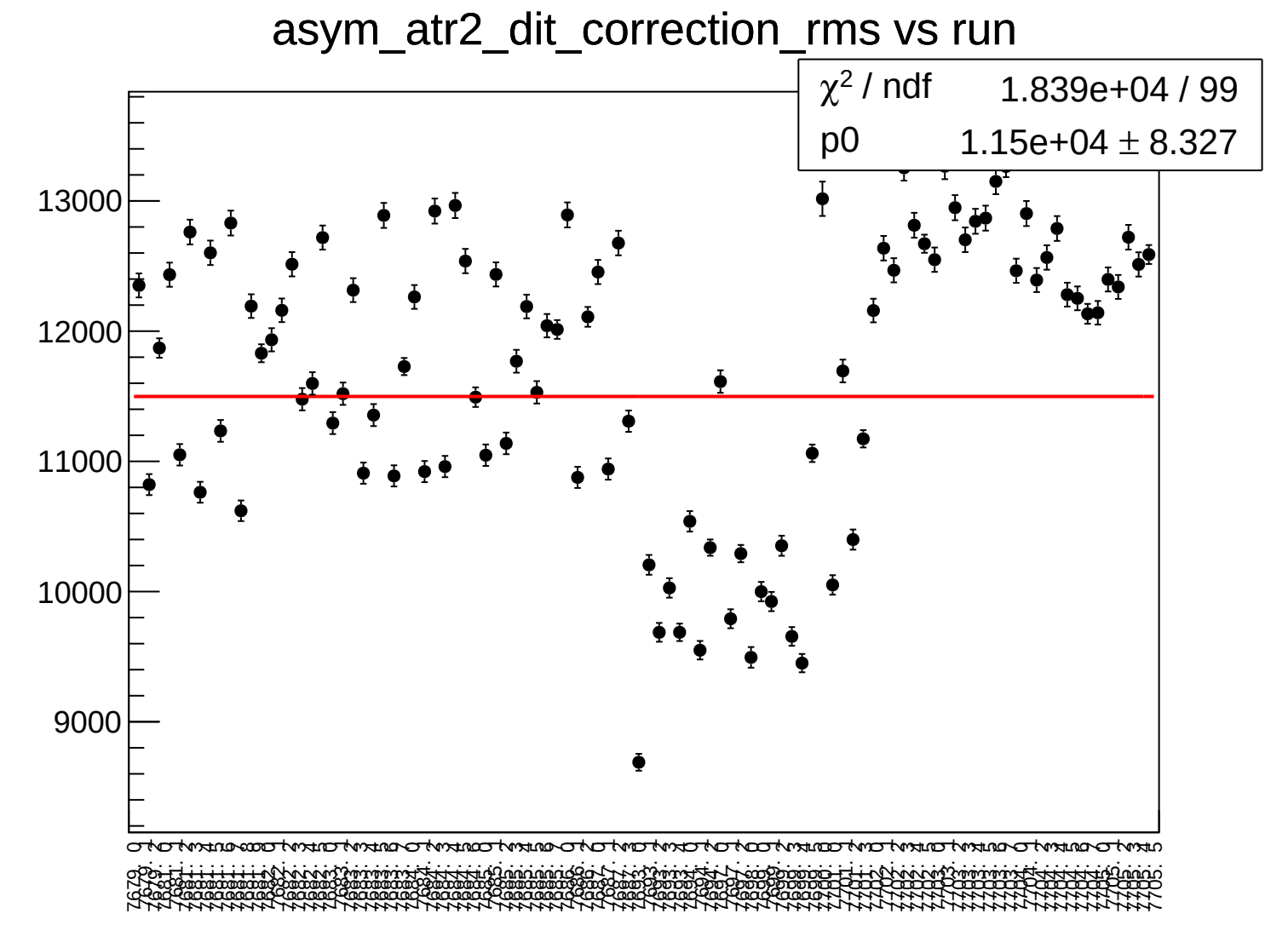

dit_asym_atr2_mean vs run
×10^3
χ² / ndf 82.17 / 99
p0 −1977 ± 2993
100
50
0
−50
−100
pull
Entries 100
Mean −125.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

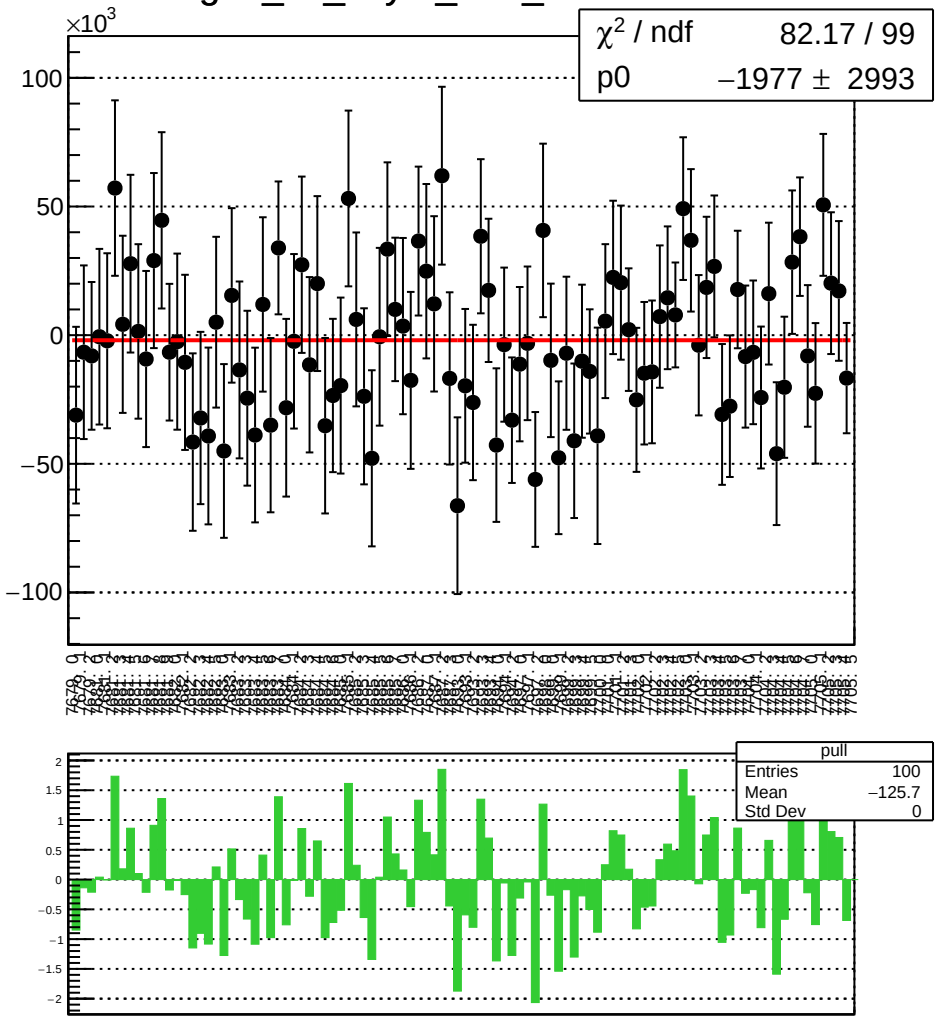

pull1D
Entries 100
Mean −0.01014
Std Dev 0.9064
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

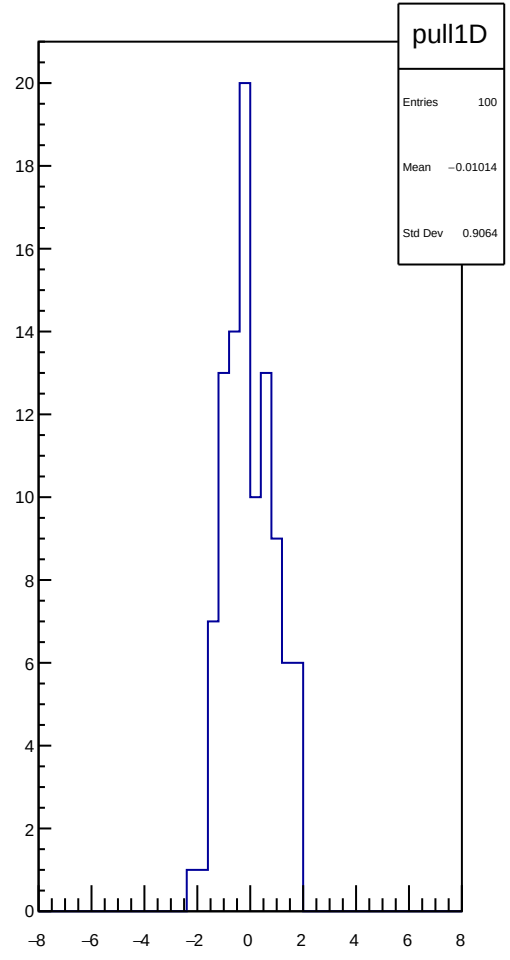

dit_asym_atr2_rms vs run
χ² / ndf 1.707e+04 / 99
p0 2923 ± 2.116
3300
3200
3100
3000
2900
2800
2700
2600
2500

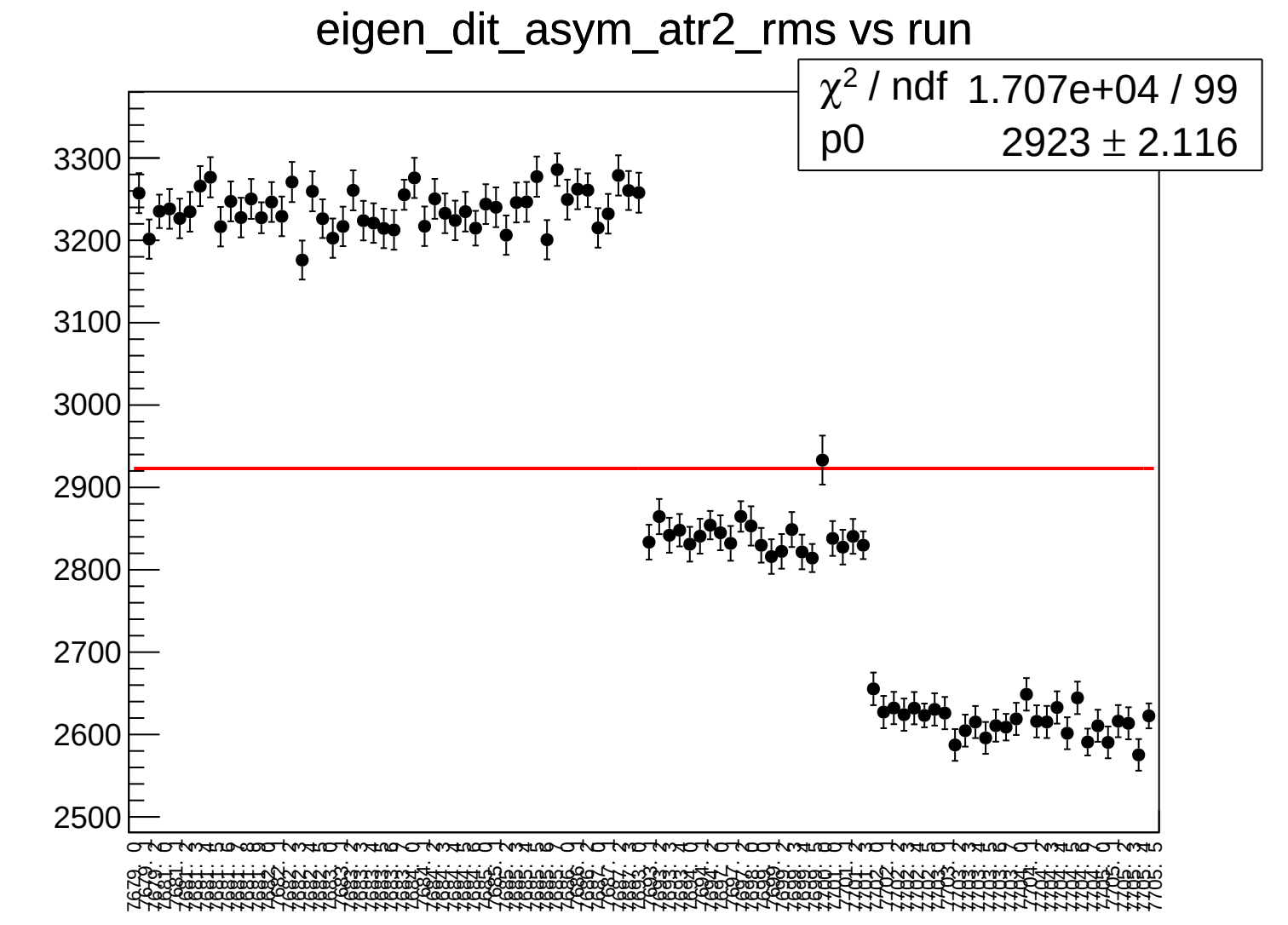

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 101.4 / 99
p0 1.395e+04 ± 1.178e+04
400
200
0
−200
−400
−600
pull
Entries 100
Mean 545.8
Std Dev 0
2
1
0
−1
−2
−3

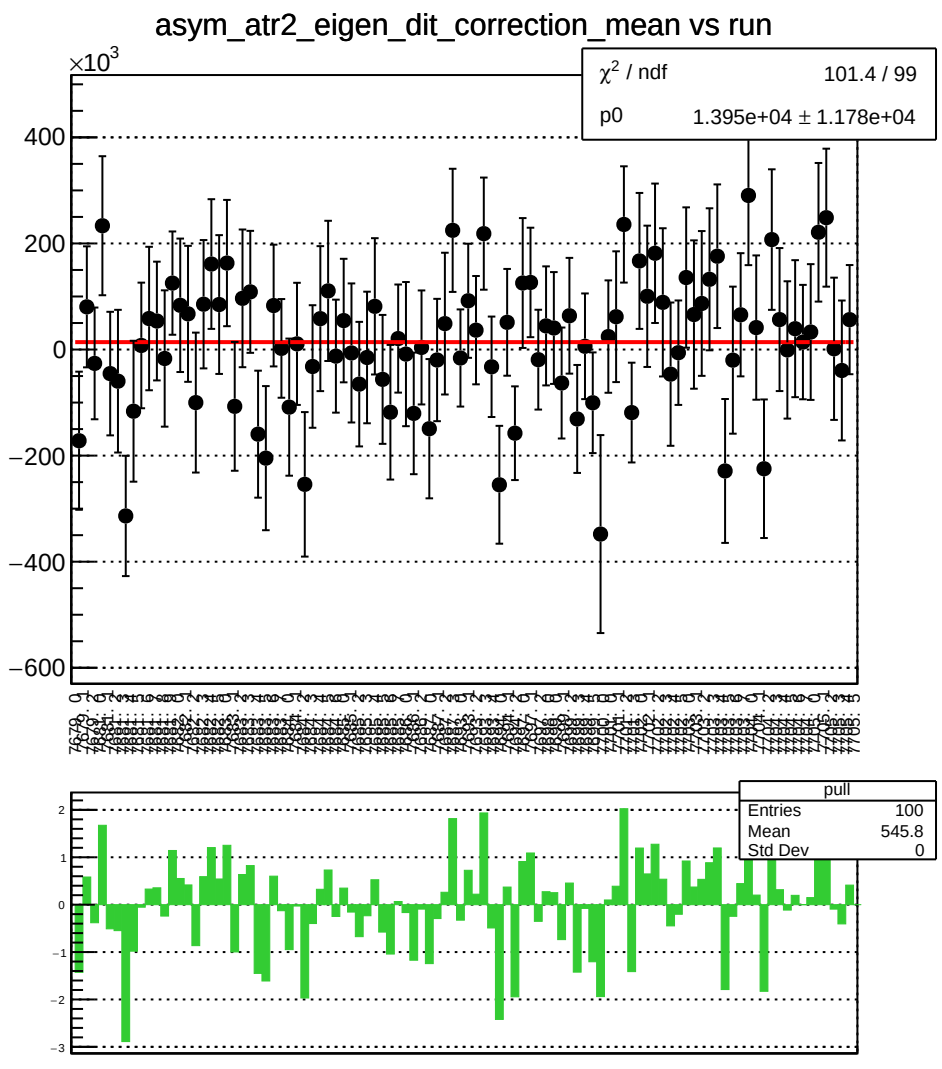

pull1D
Entries 100
Mean 0.009864
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

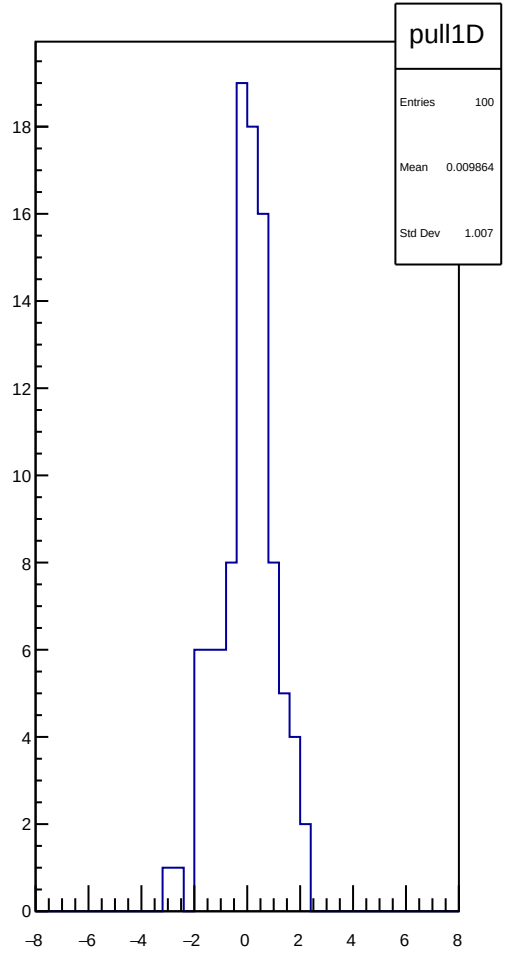

asym_atr2_dit_correction_rms vs run
χ^2 / ndf 1.839e+04 / 99
p0 1.15e+04 ± 8.327
13000
12000
11000
10000
9000

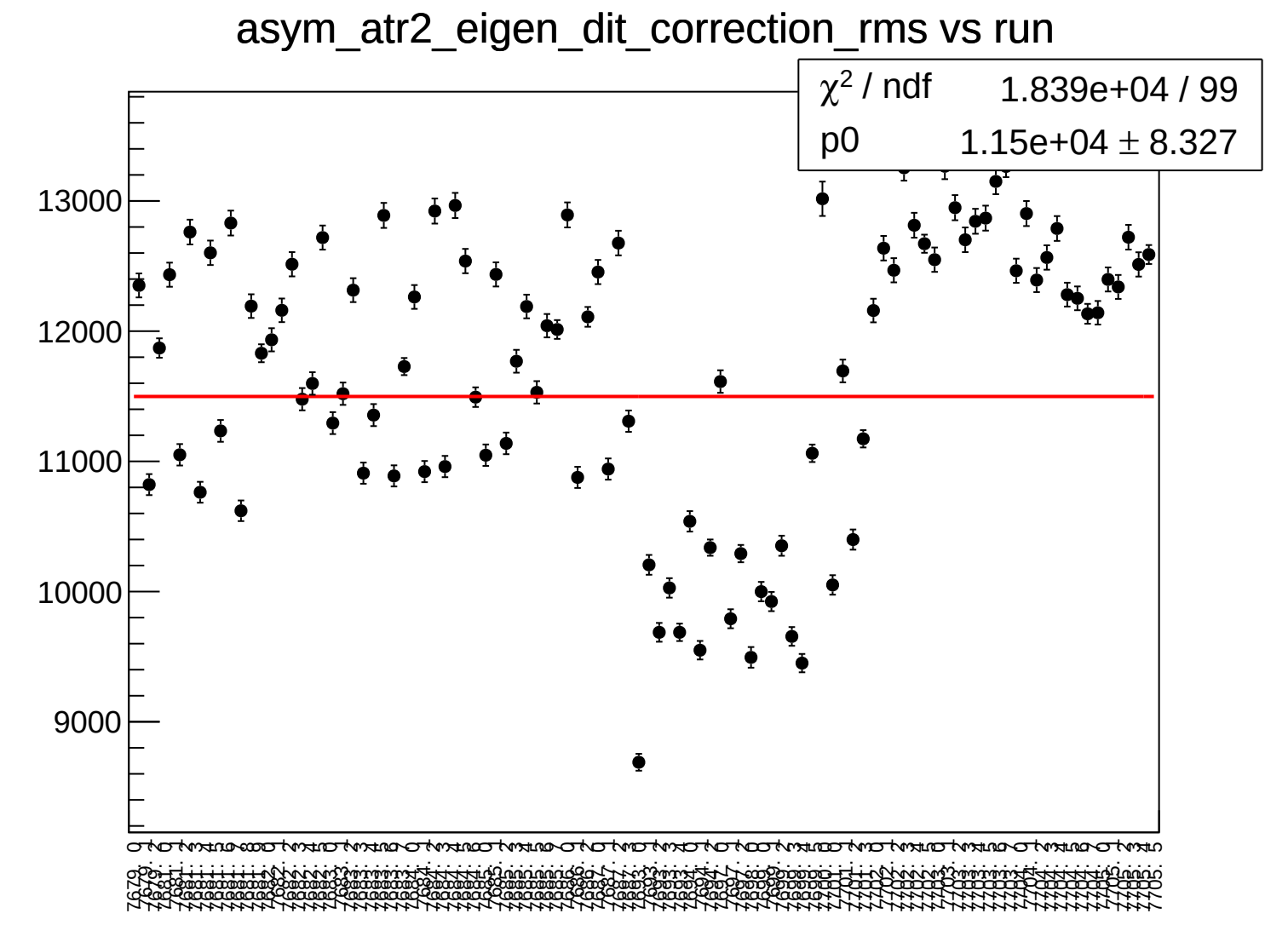

eigen_dit_asym_atr2_mean vs run
×10^3
χ² / ndf 82.17 / 99
p0 −1977 ± 2993
100
50
0
−50
−100
pull
Entries 100
Mean −125.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

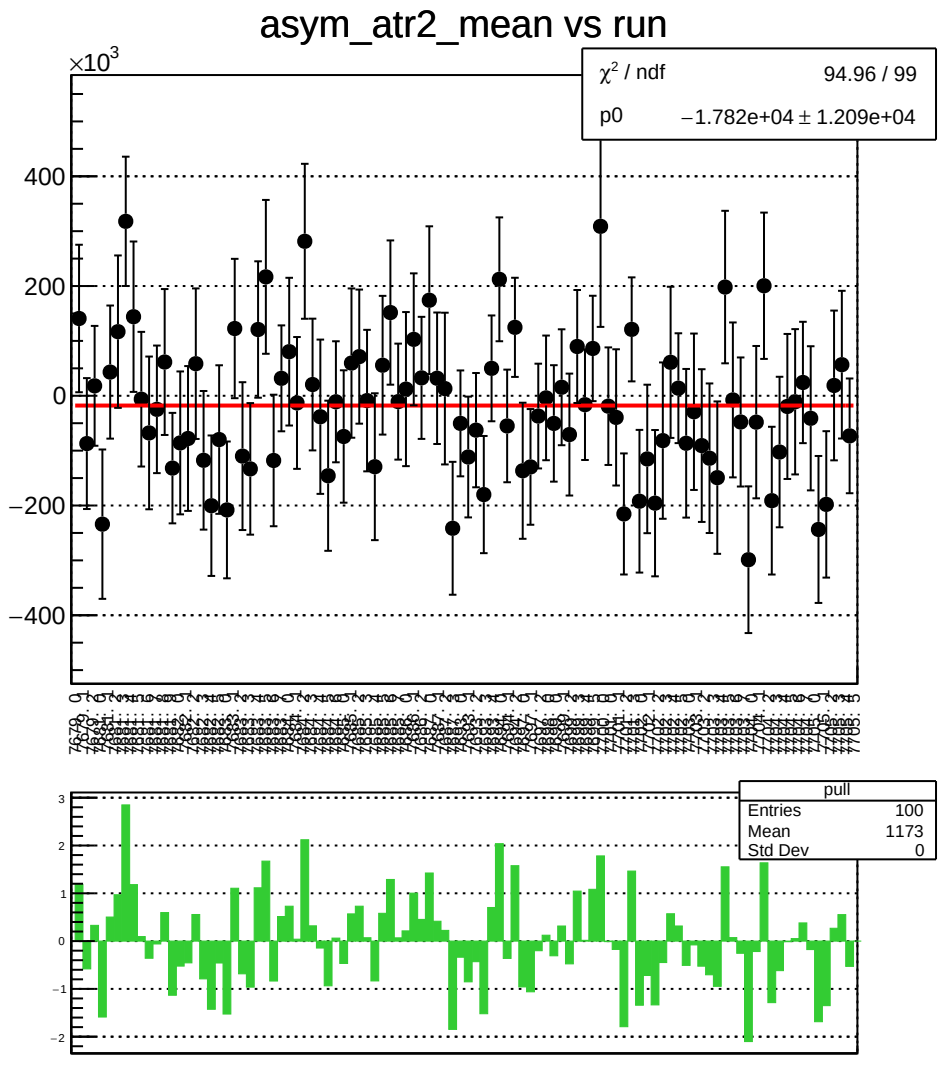

pull1D
Entries 100
Mean −0.01014
Std Dev 0.9064
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

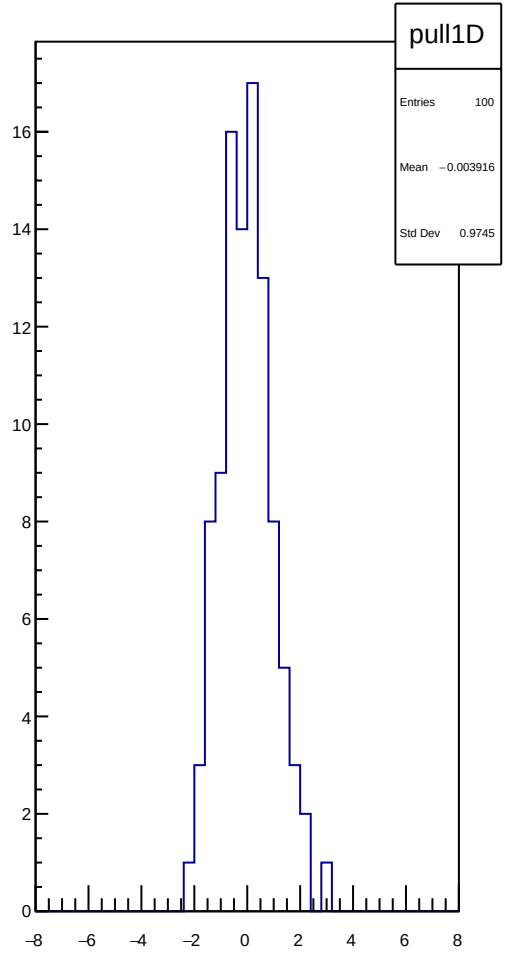

eigen_dit_asym_atr2_rms vs run
χ² / ndf 1.707e+04 / 99
p0 2923 ± 2.116
3300
3200
3100
3000
2900
2800
2700
2600
2500

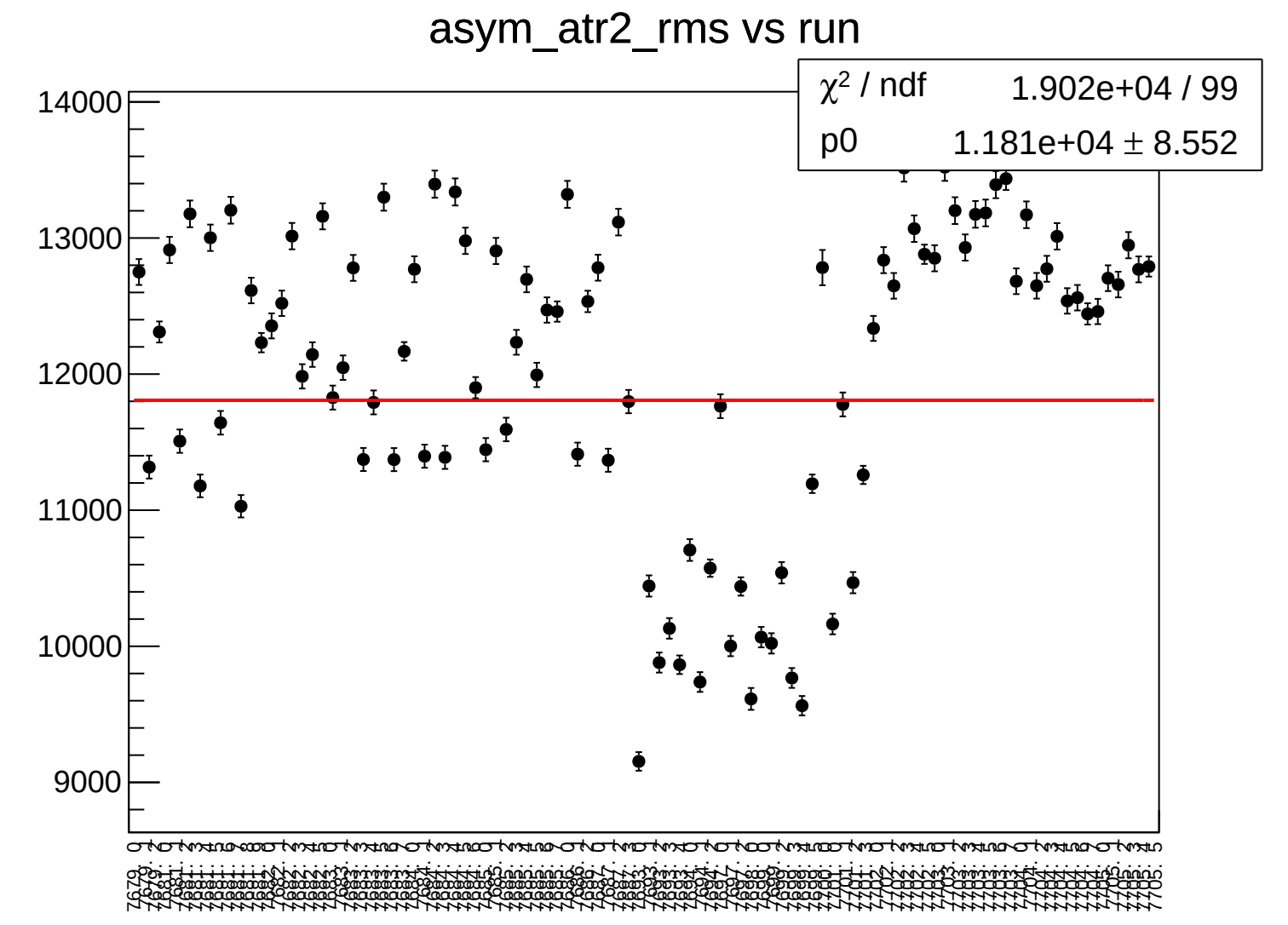

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 101.4 / 99
p0 1.395e+04 ± 1.178e+04
400
200
0
−200
−400
−600
pull
Entries 100
Mean 545.8
Std Dev 0
2
1
0
−1
−2
−3

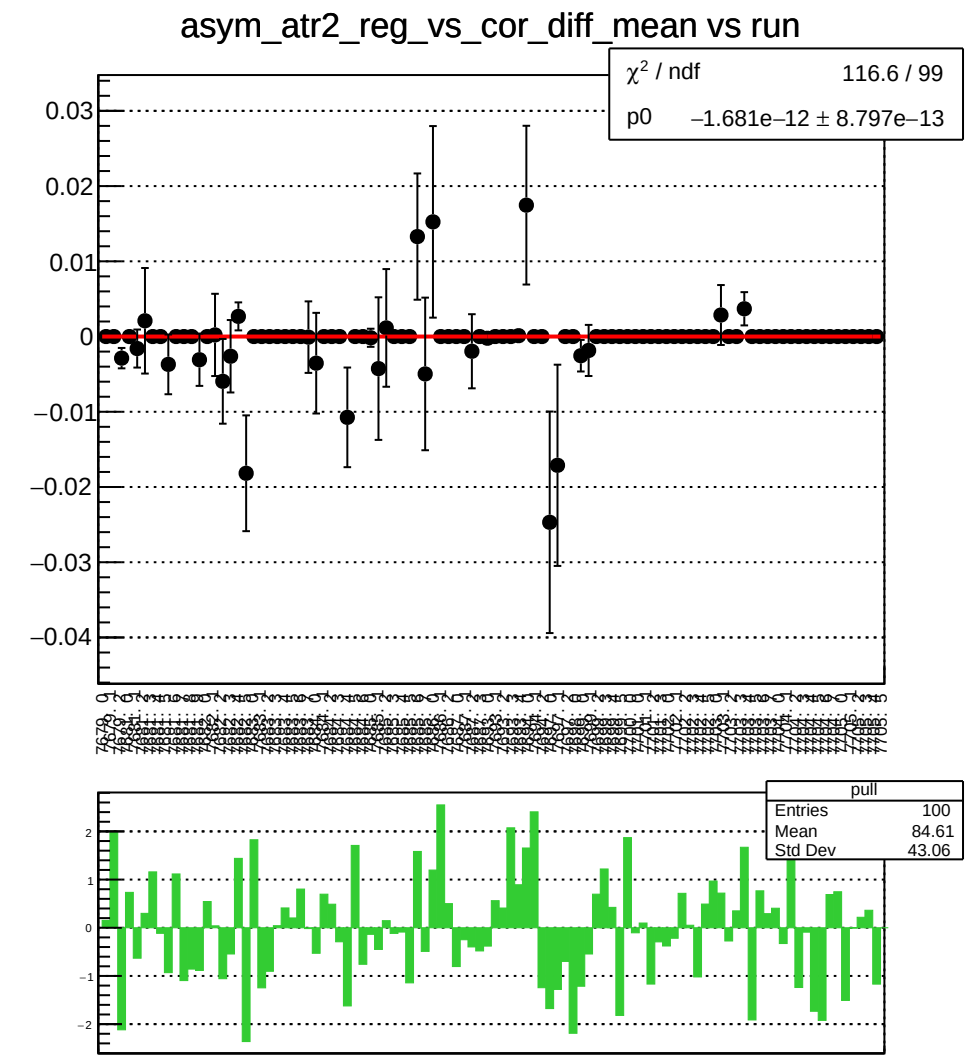

pull1D
Entries 100
Mean 0.009864
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

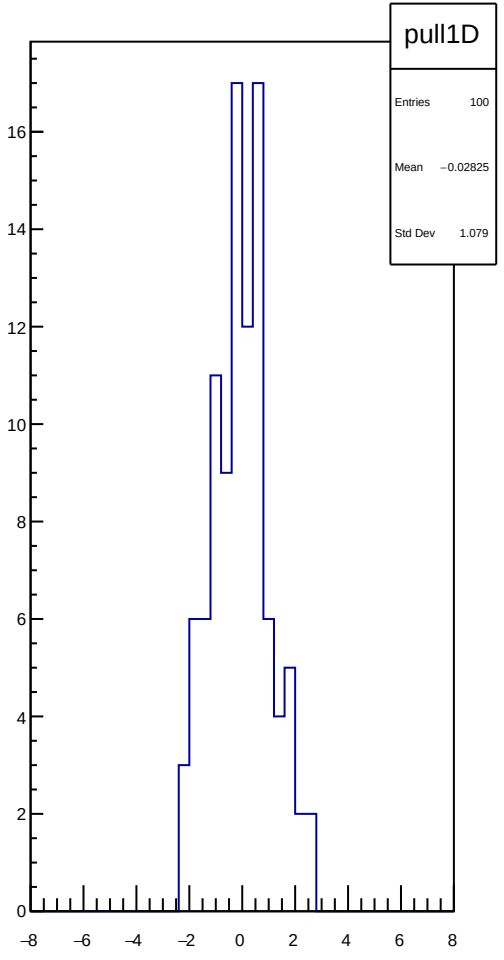

asym_atr2_eigen_dit_correction_rms vs run
χ^2 / ndf 1.839e+04 / 99
p0 1.15e+04 ± 8.327
13000
12000
11000
10000
9000

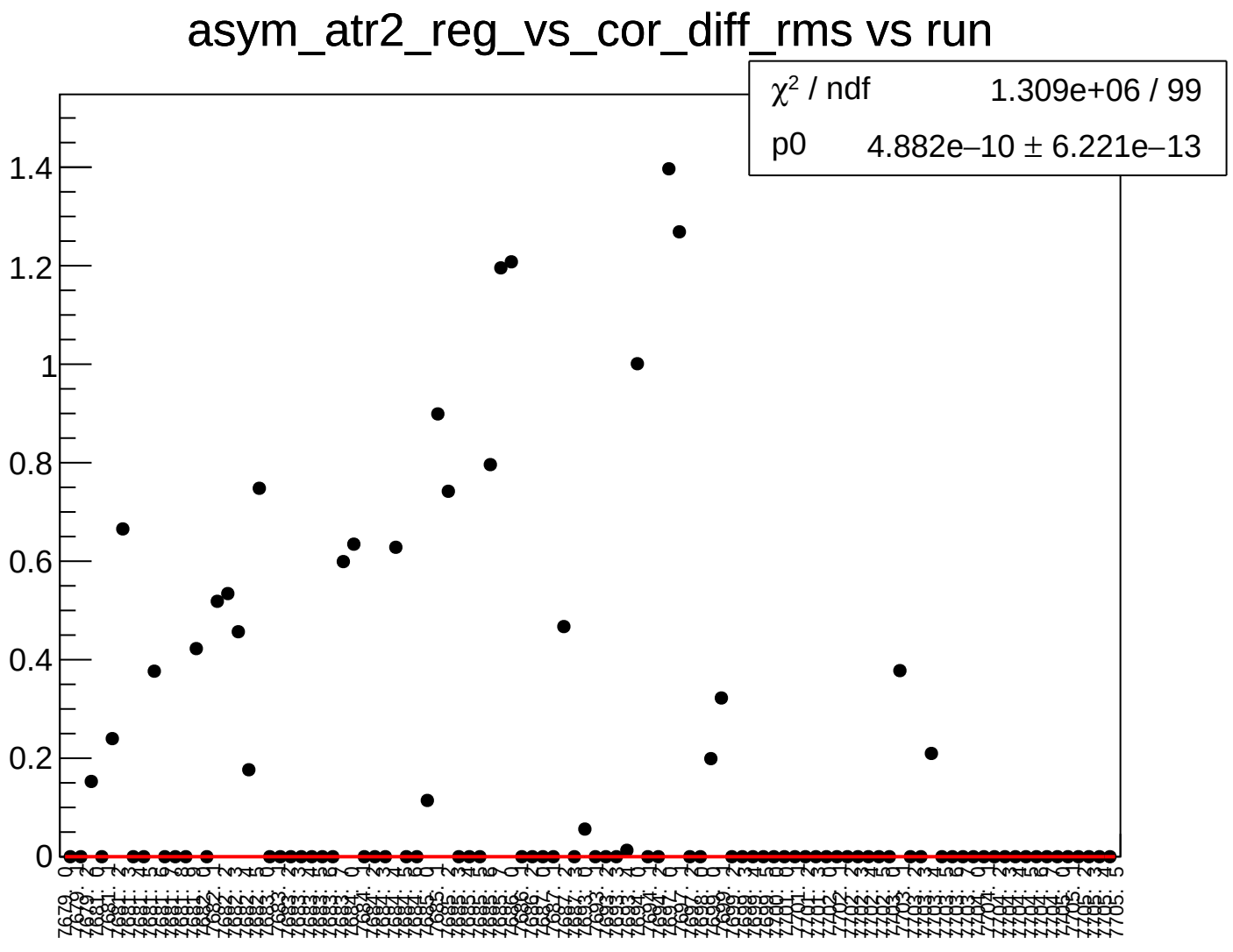

asym_atr2_mean vs run
×10^3
χ² / ndf 94.96 / 99
p0 −1.782e+04 ± 1.209e+04
400
200
0
−200
−400
pull
Entries 100
Mean 1173
Std Dev 0
3
2
1
0
−1
−2

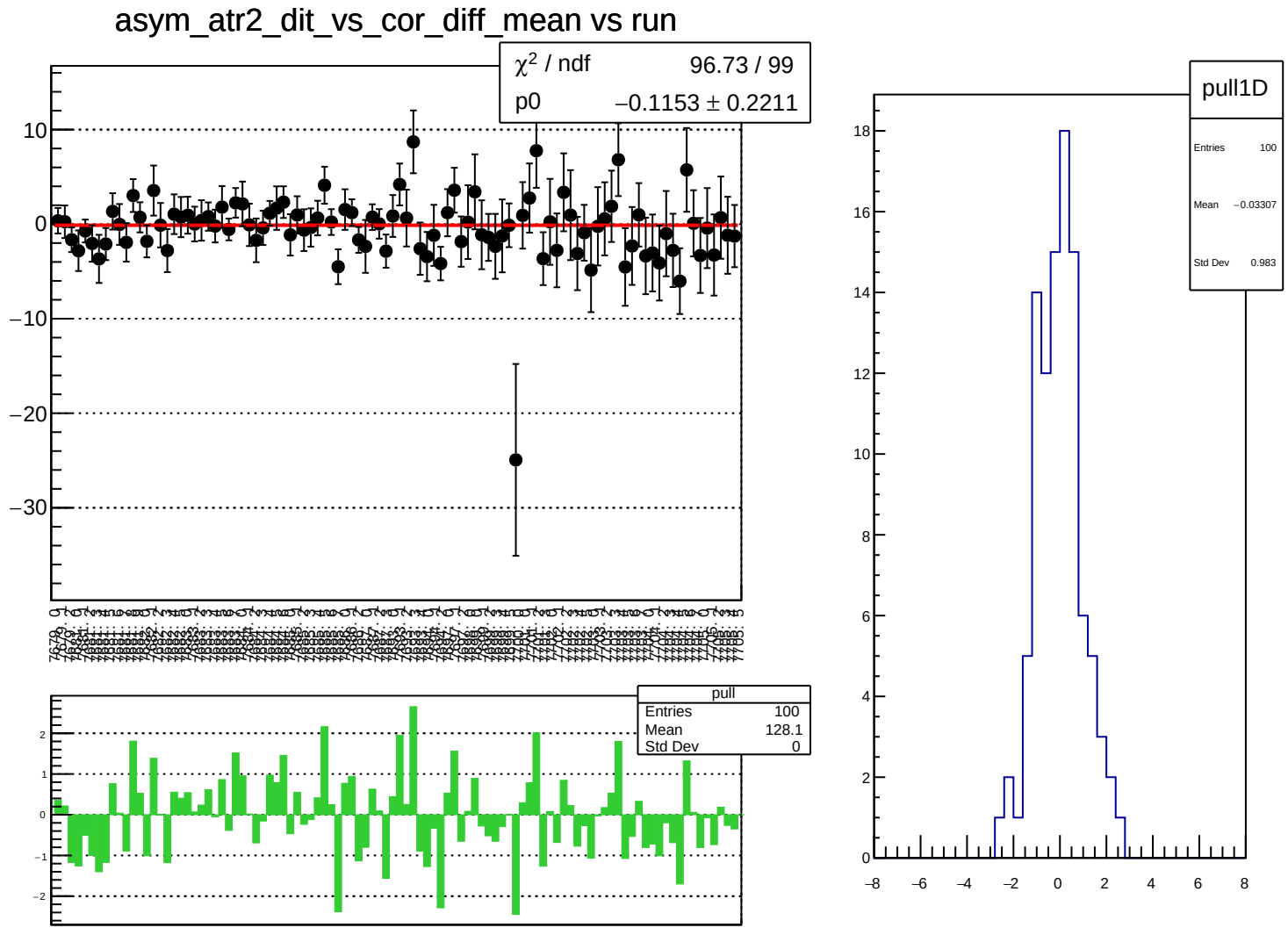

pull1D
Entries 100
Mean −0.003916
Std Dev 0.9745
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

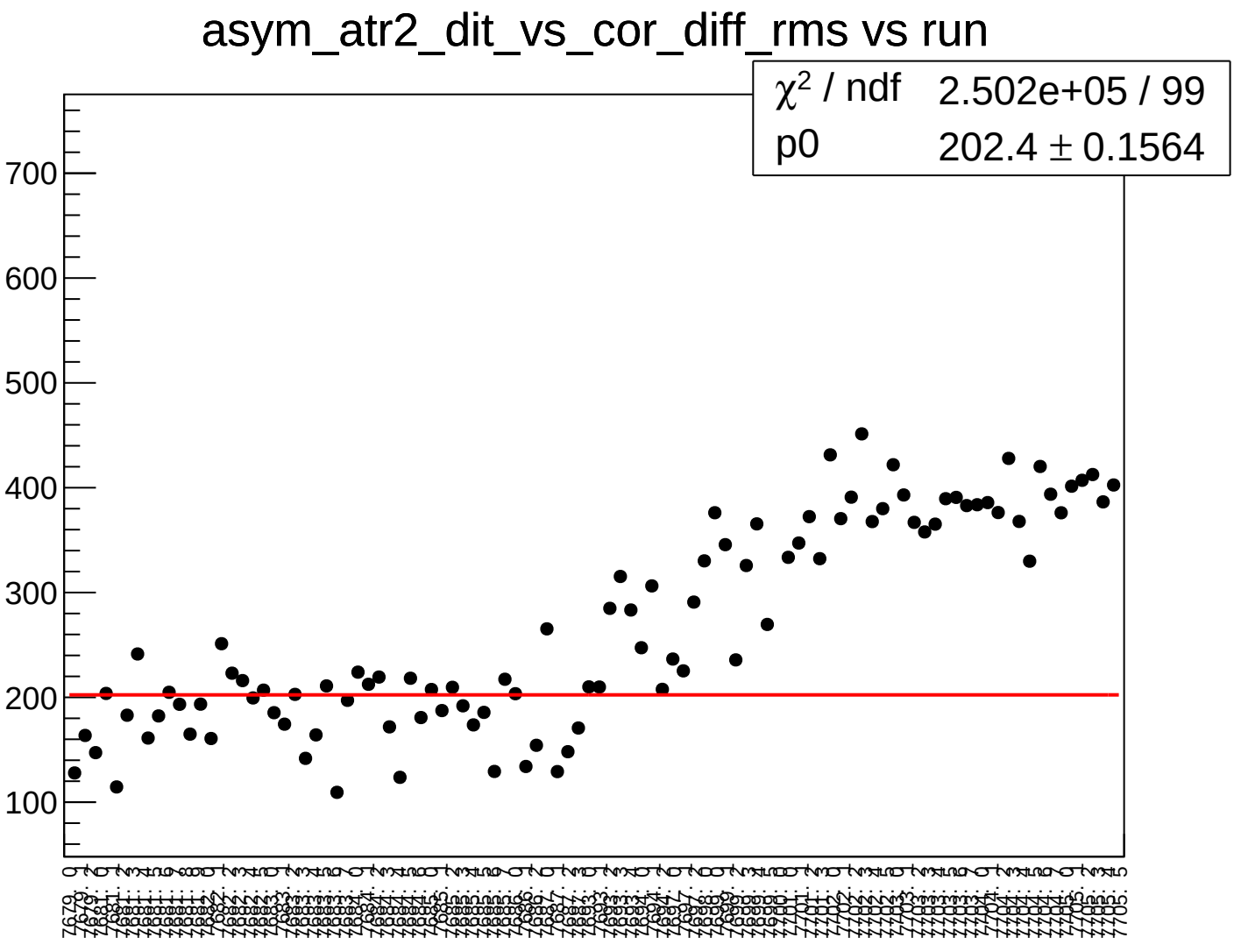

asym_atr2_rms vs run
χ² / ndf 1.902e+04 / 99
p0 1.181e+04 ± 8.552
14000
13000
12000
11000
10000
9000

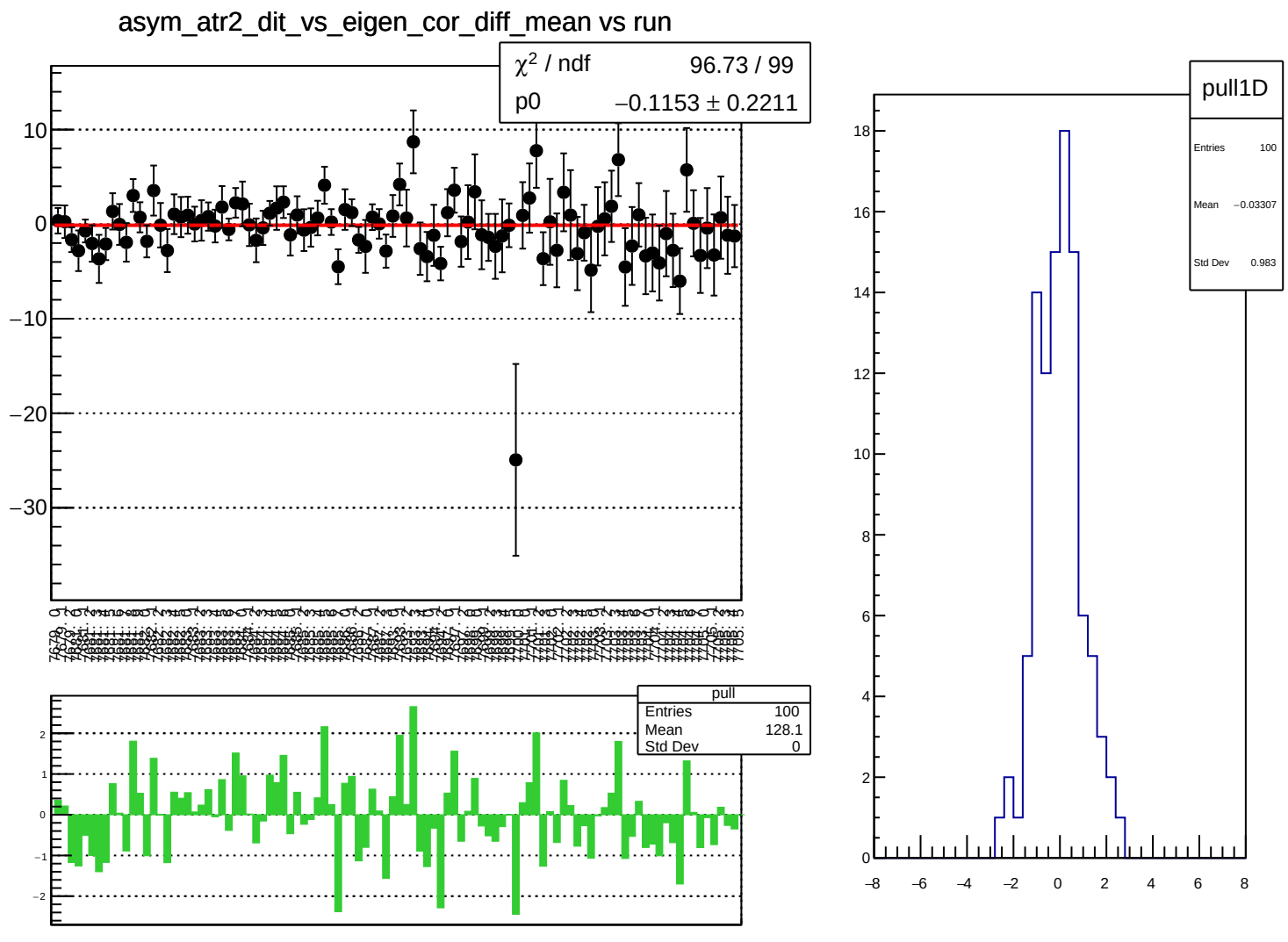

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 116.6 / 99
p0 −1.681e−12 ± 8.797e−13
pull
Entries 100
Mean 84.61
Std Dev 43.06

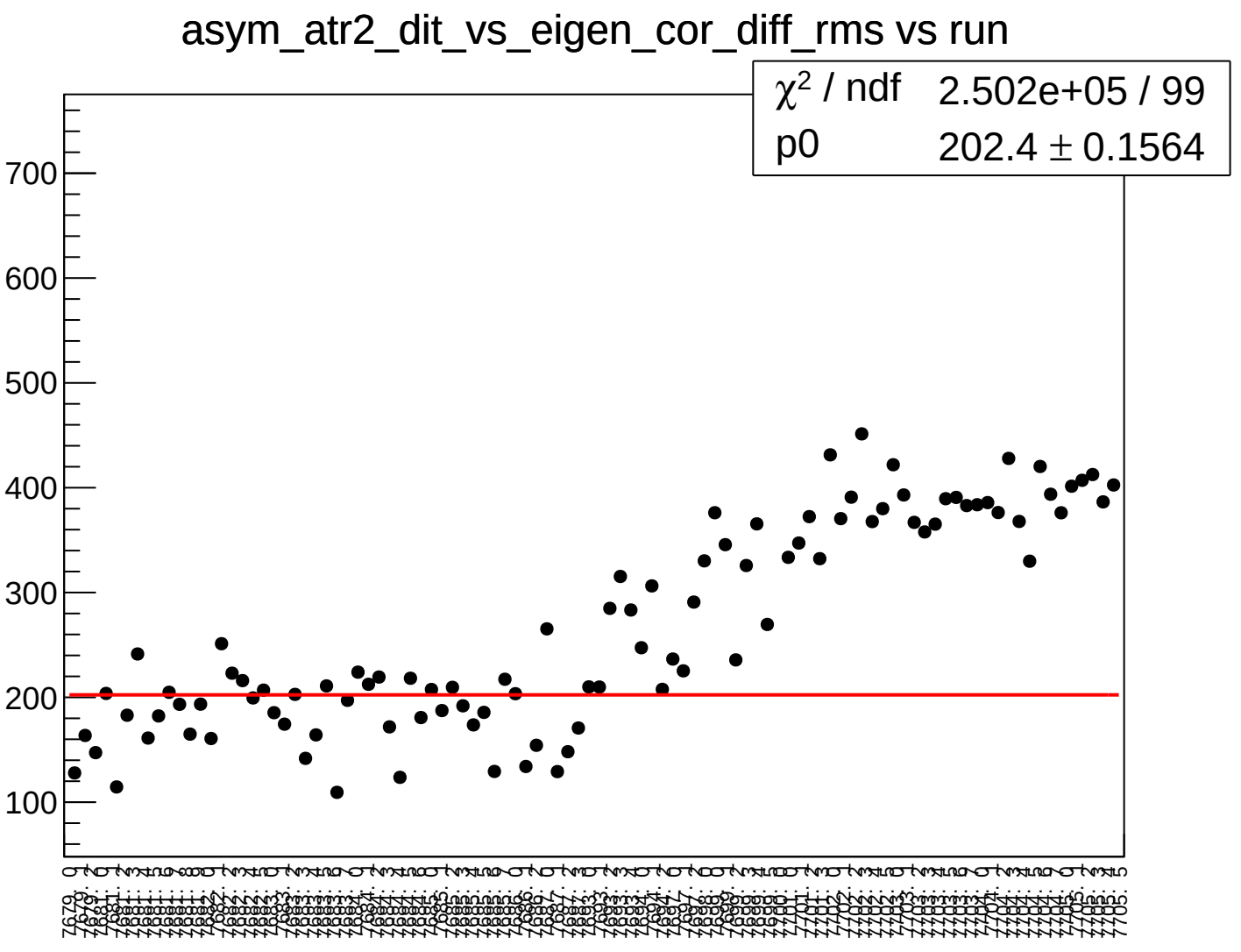

pull1D
Entries 100
Mean −0.02825
Std Dev 1.079

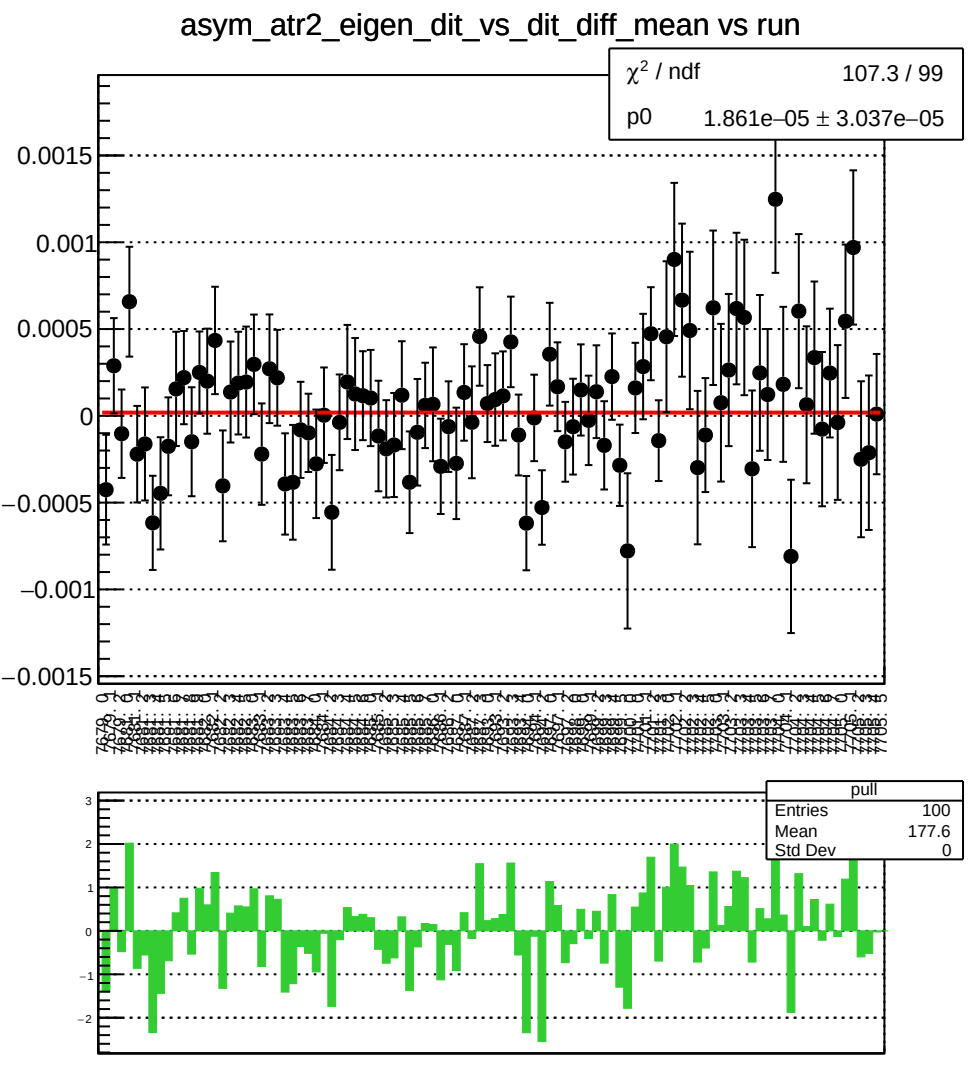

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.309e+06 / 99
p0 4.882e−10 ± 6.221e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

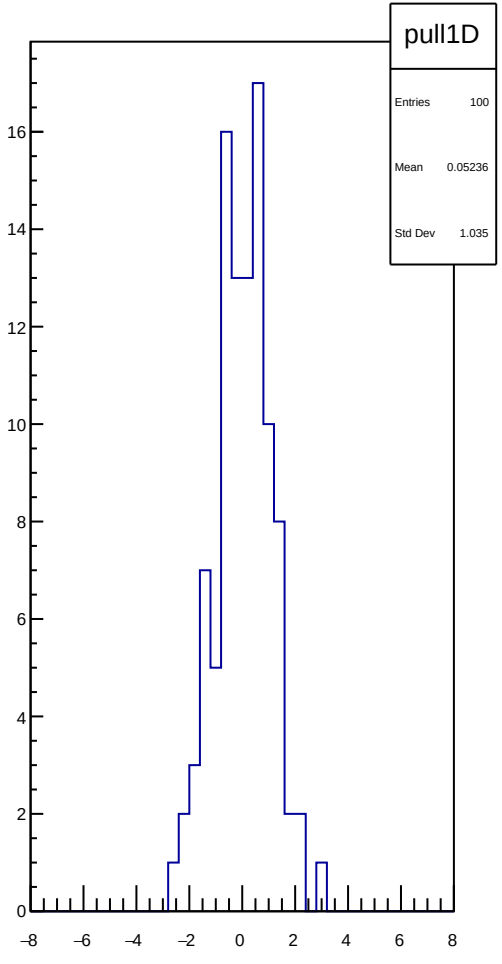

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 96.73 / 99
p0 −0.1153 ± 0.2211
10
0
−10
−20
−30
pull
Entries 100
Mean 128.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.03307
Std Dev 0.983
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

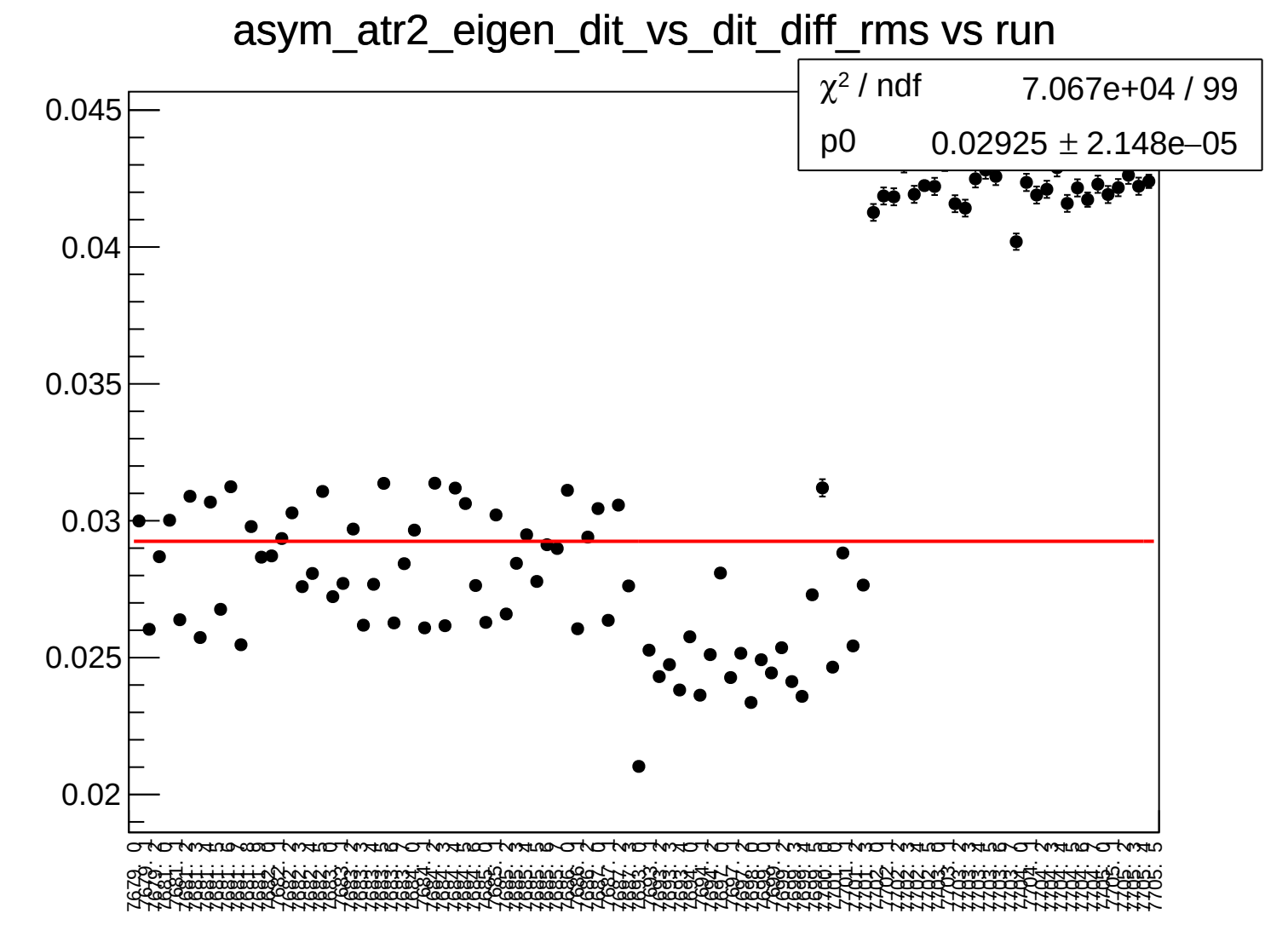

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 2.502e+05 / 99
p0 202.4 ± 0.1564
700
600
500
400
300
200
100

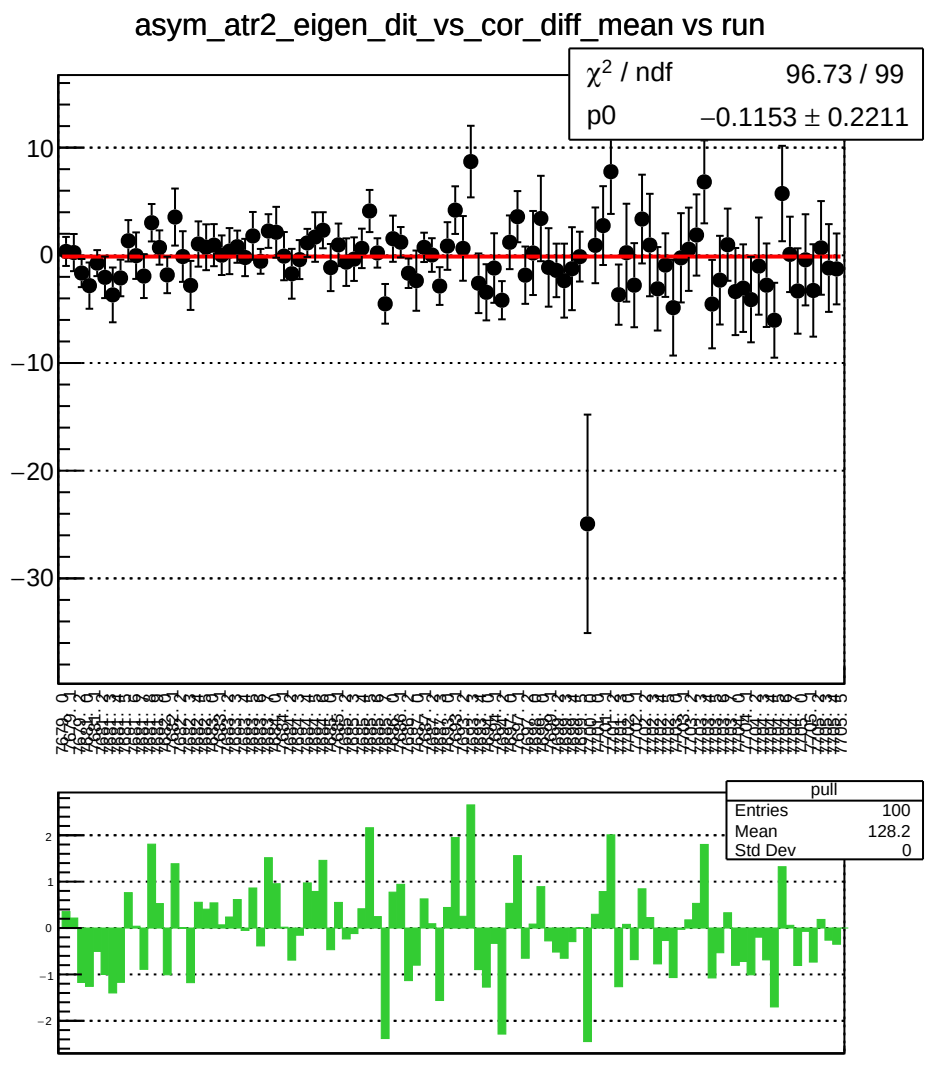

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.73 / 99
p0 −0.1153 ± 0.2211
10
0
−10
−20
−30
pull
Entries 100
Mean 128.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.03307
Std Dev 0.983
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

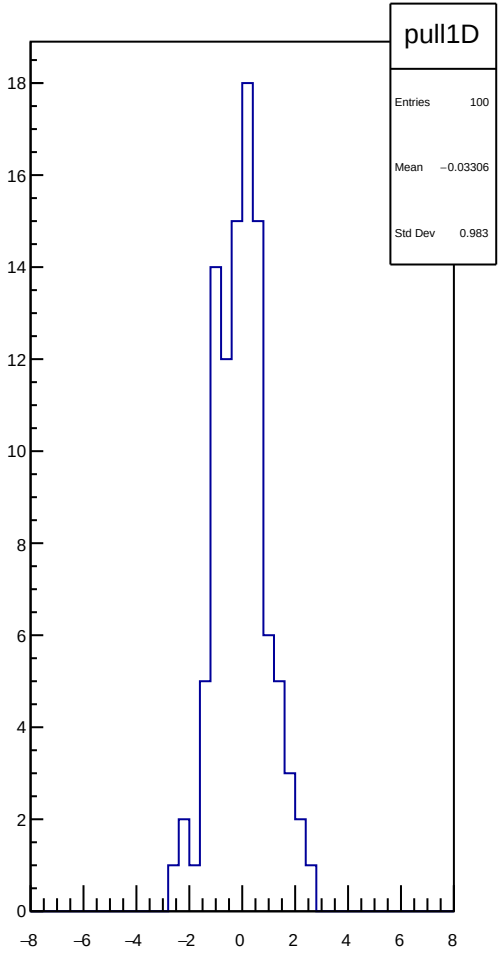

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.502e+05 / 99
p0 202.4 ± 0.1564
700
600
500
400
300
200
100

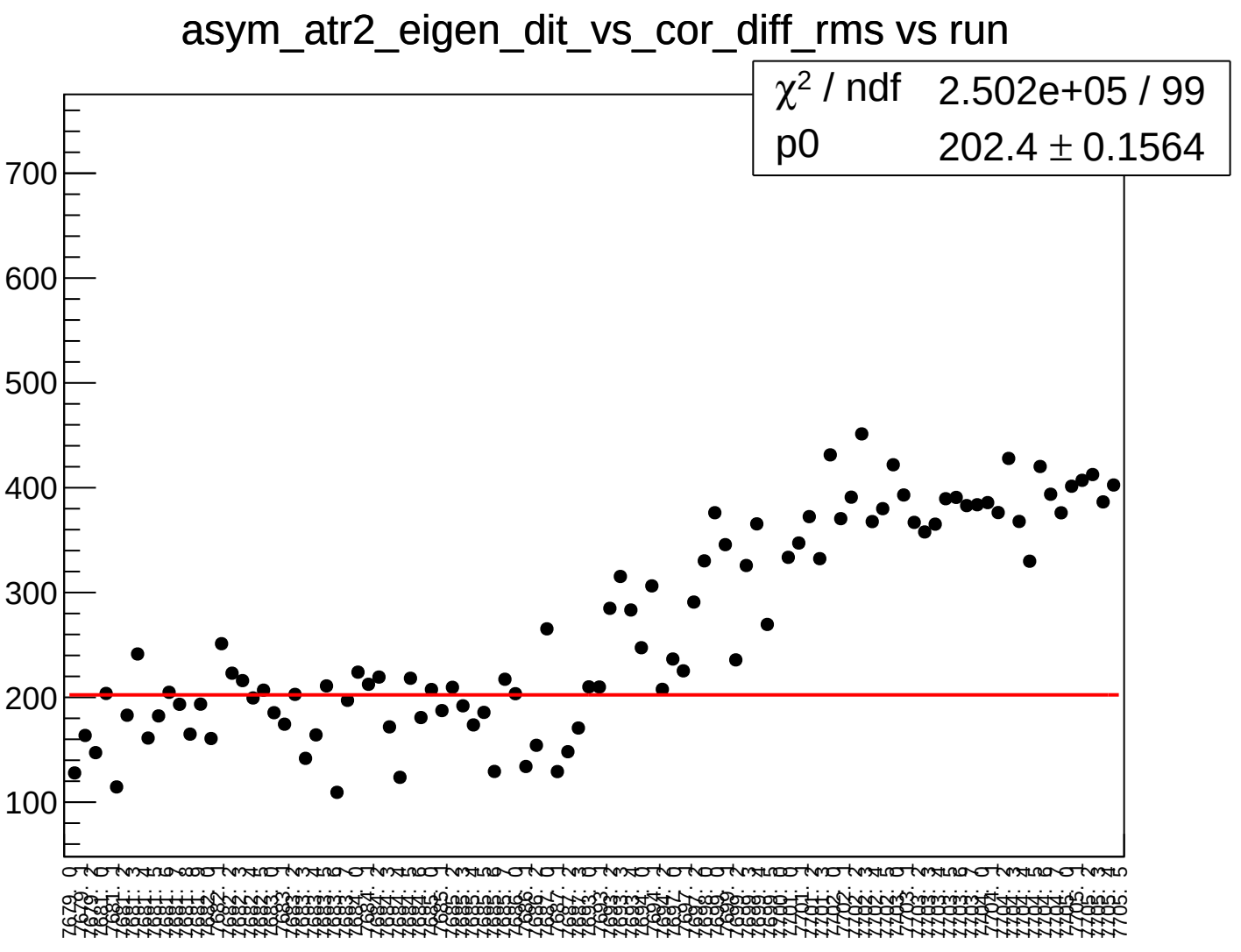

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 107.3 / 99
p0 1.861e−05 ± 3.037e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 100
Mean 177.6
Std Dev 0
3
2
1
0
−1
−2

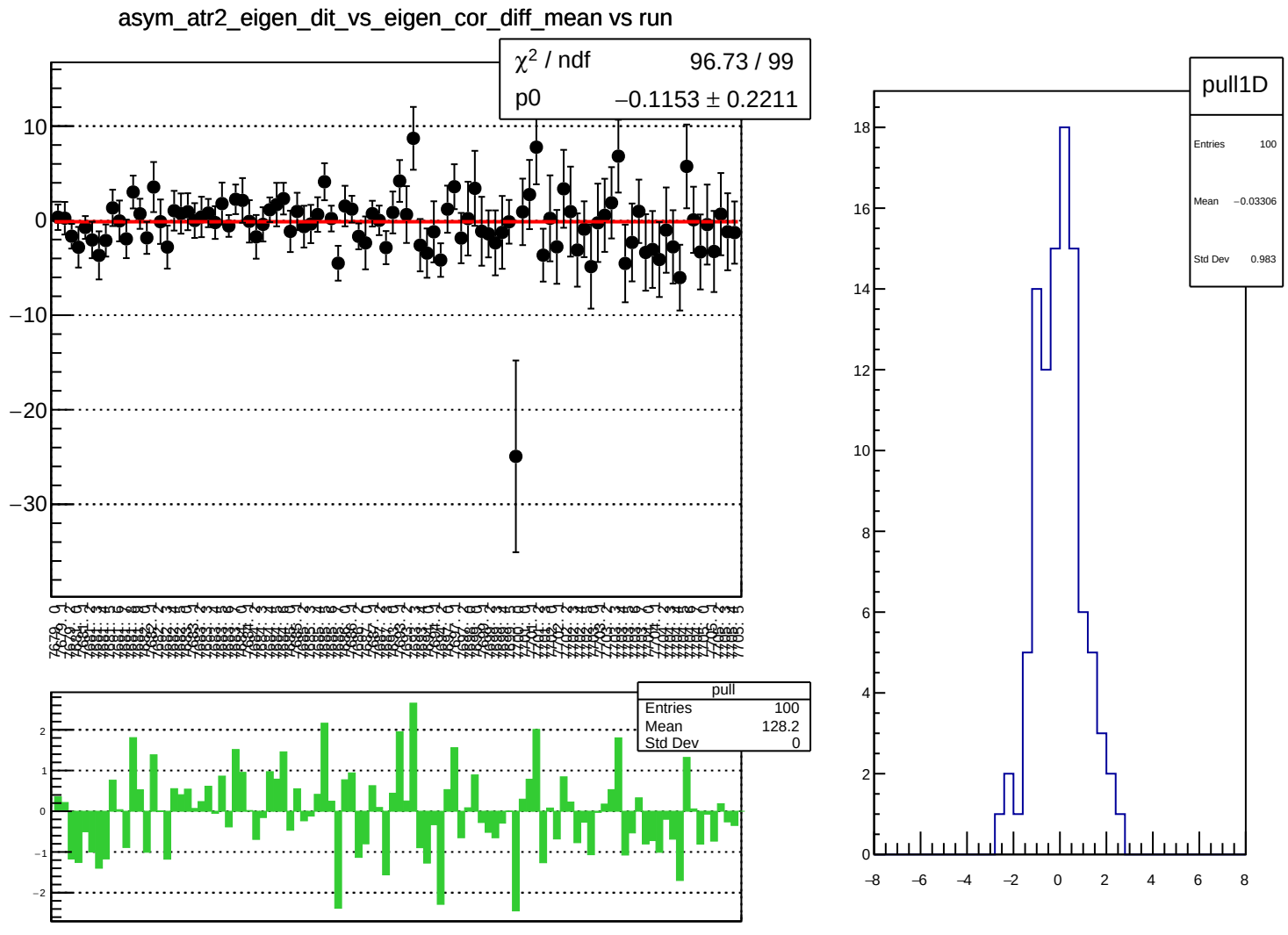

pull1D
Entries 100
Mean 0.05236
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

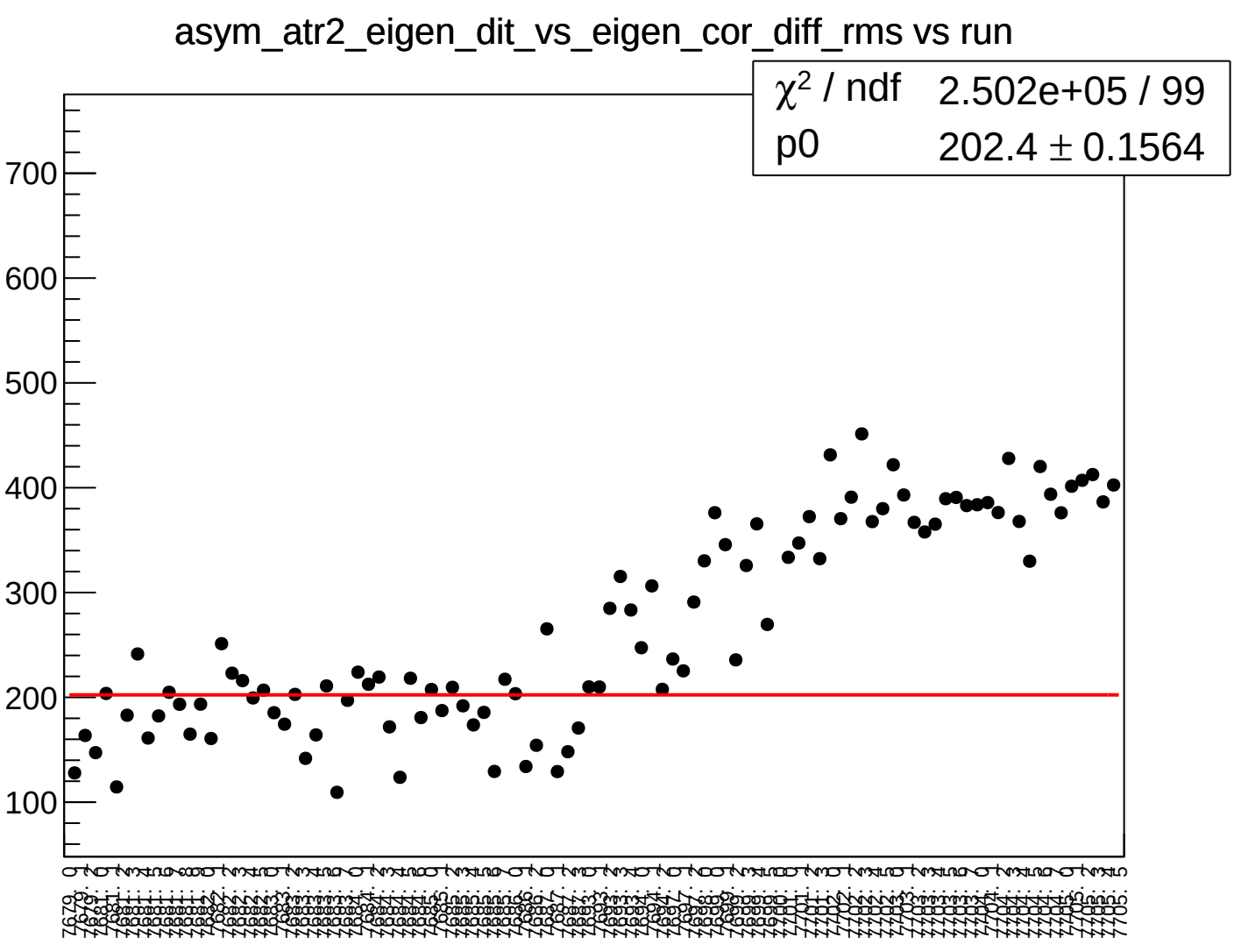

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.067e+04 / 99
p0 0.02925 ± 2.148e−05
0.045
0.04
0.035
0.03
0.025
0.02

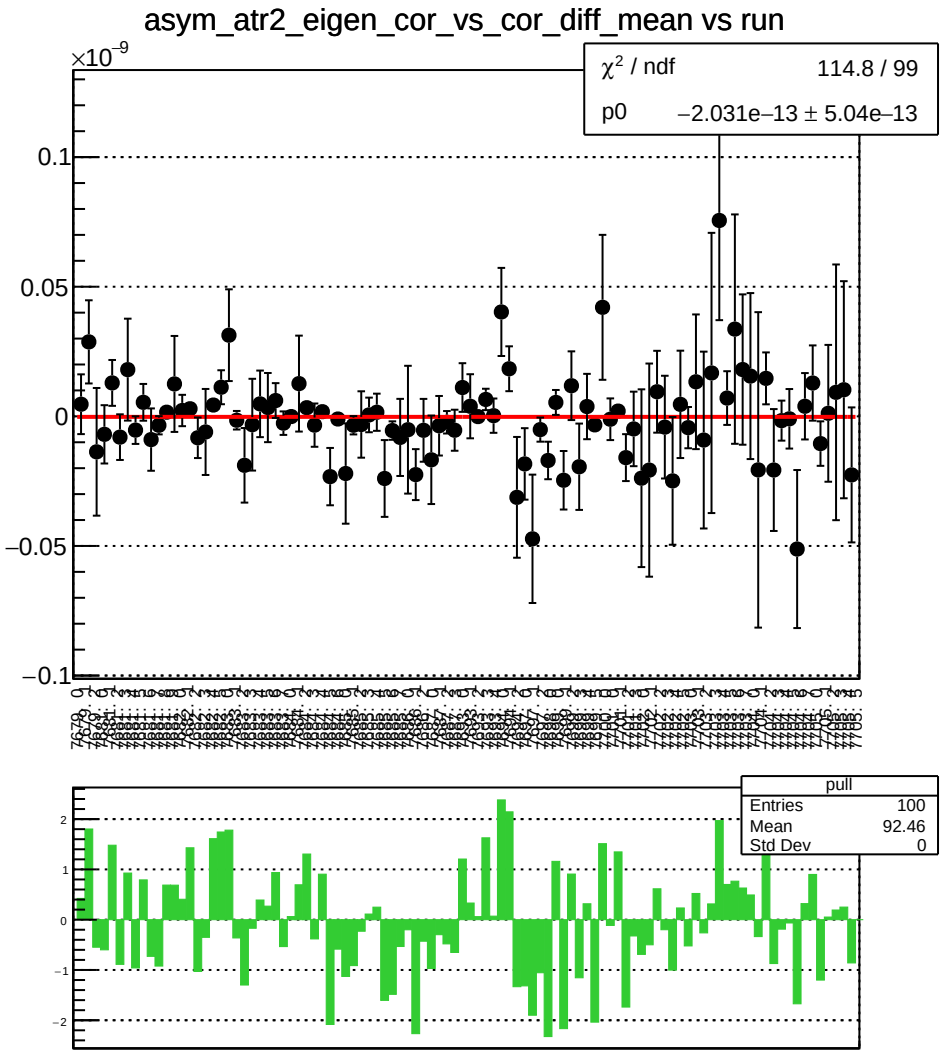

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.73 / 99
p0 −0.1153 ± 0.2211
10
0
−10
−20
−30
pull
Entries 100
Mean 128.2
Std Dev 0
2
1
0
−1
−2

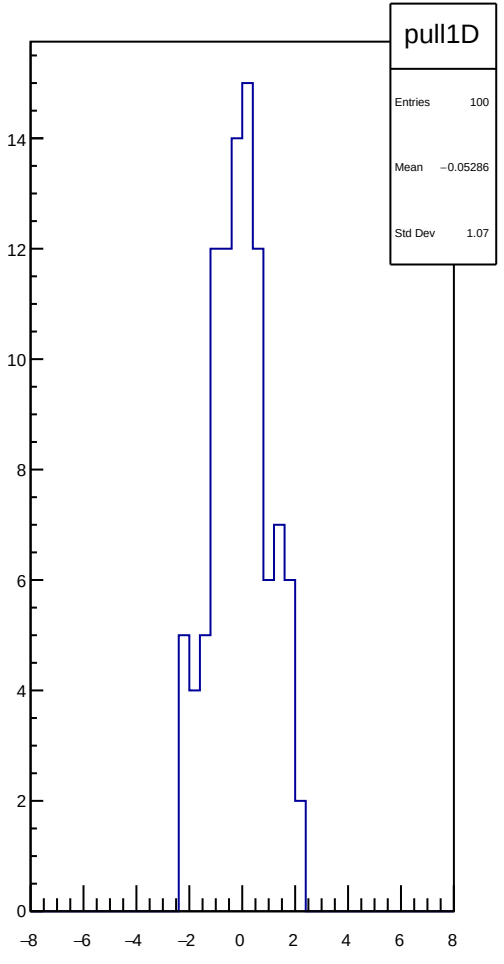

pull1D
Entries 100
Mean −0.03306
Std Dev 0.983
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

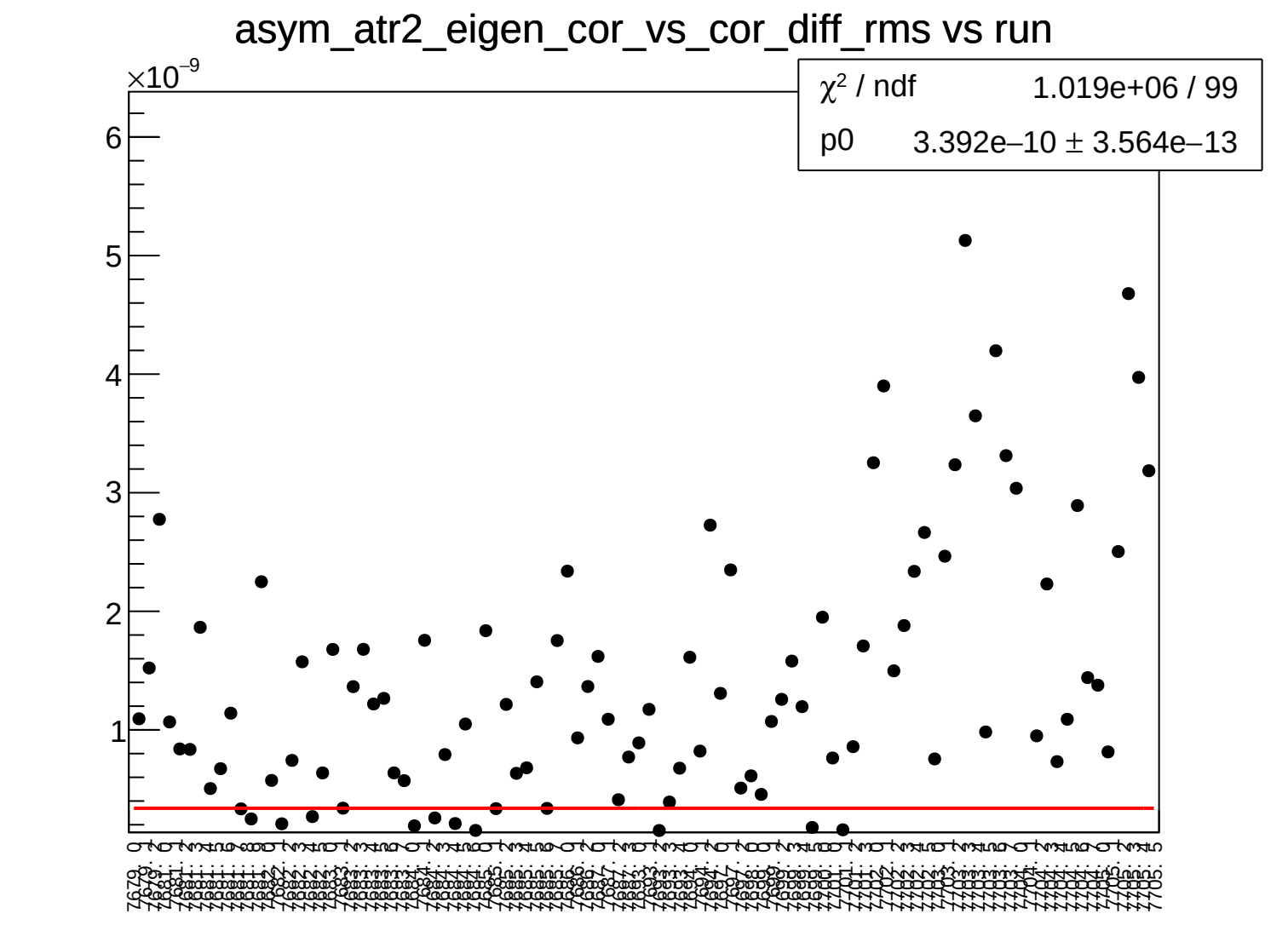

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.502e+05 / 99
p0 202.4 ± 0.1564
700
600
500
400
300
200
100

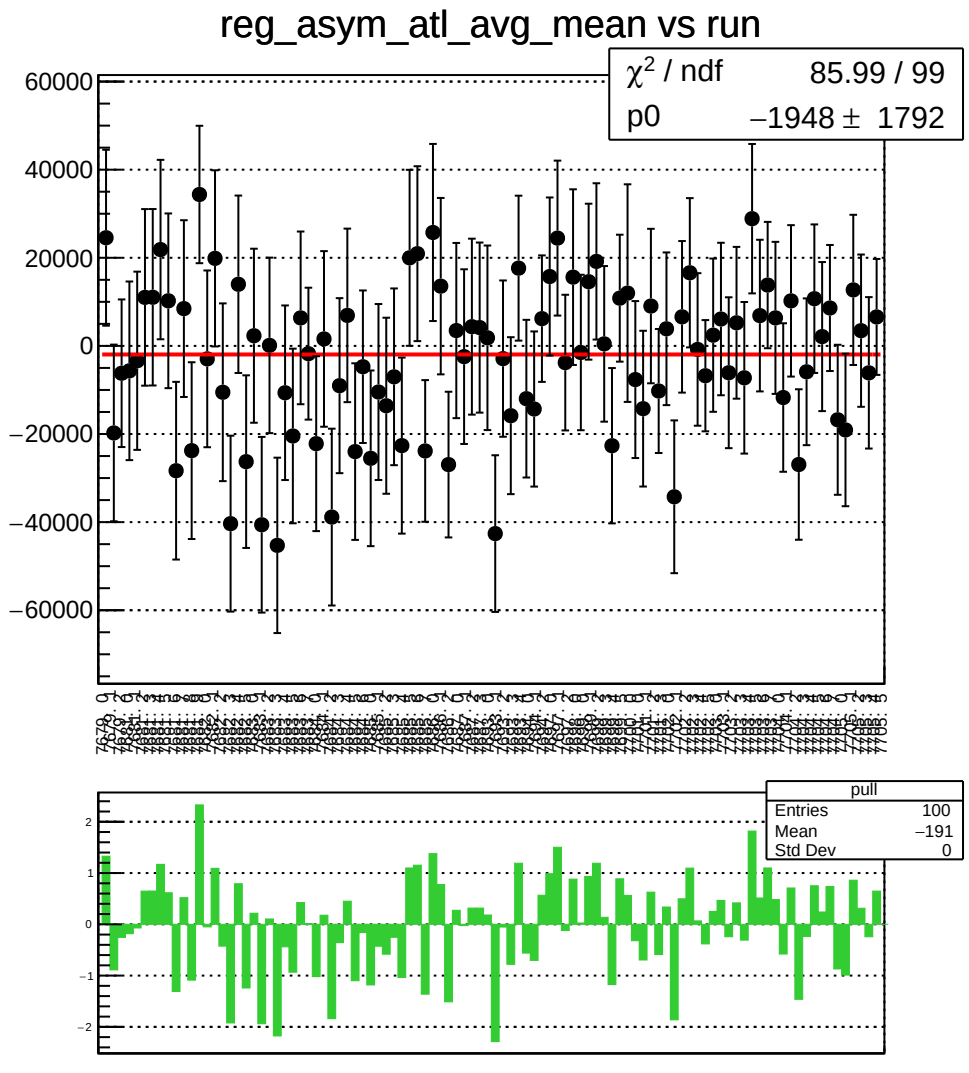

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.73 / 99
p0 −0.1153 ± 0.2211
10
0
−10
−20
−30
pull
Entries 100
Mean 128.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.03306
Std Dev 0.983
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

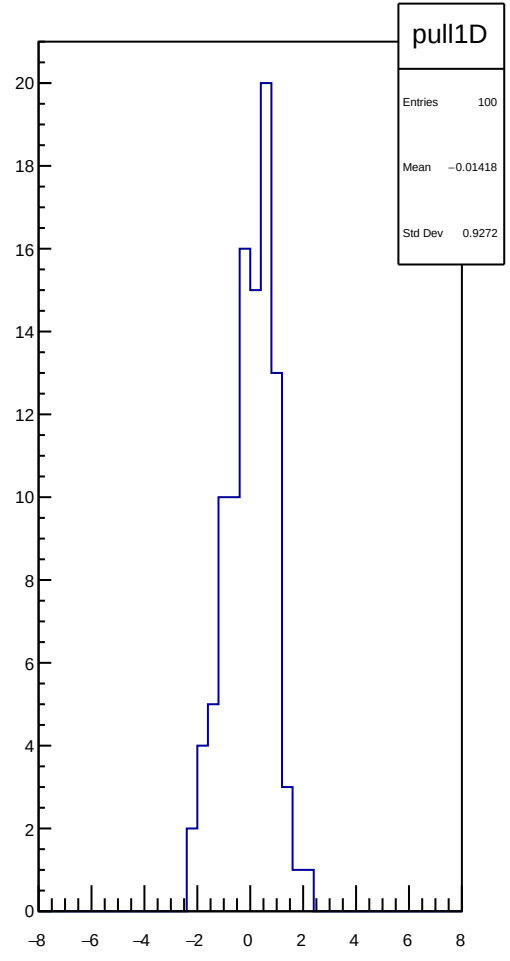

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.502e+05 / 99
p0 202.4 ± 0.1564
700
600
500
400
300
200
100

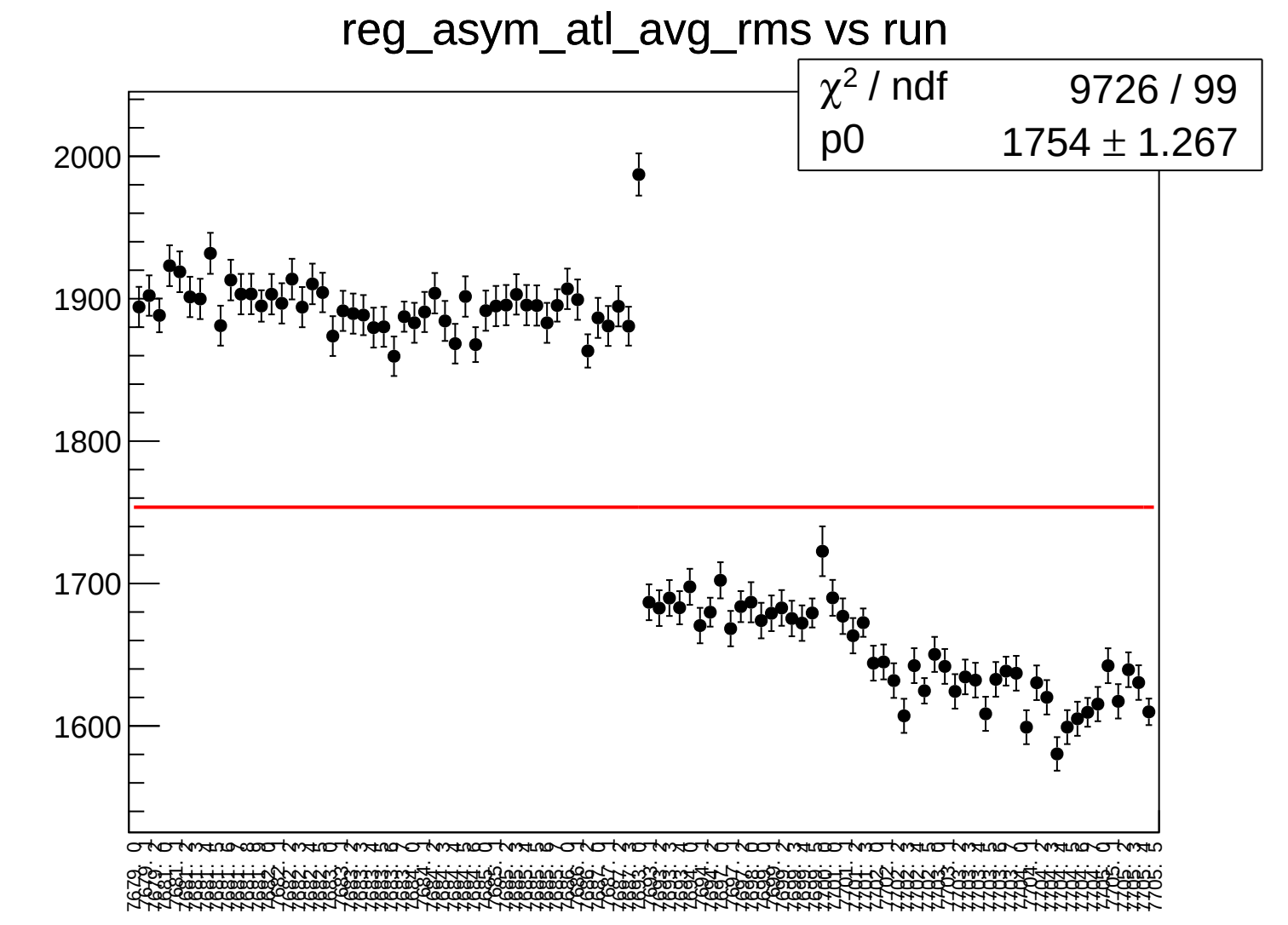

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 114.8 / 99
p0 −2.031e−13 ± 5.04e−13
0.1
0.05
0
−0.05
−0.1
pull
Entries 100
Mean 92.46
Std Dev 0
2
1
0
−1
−2

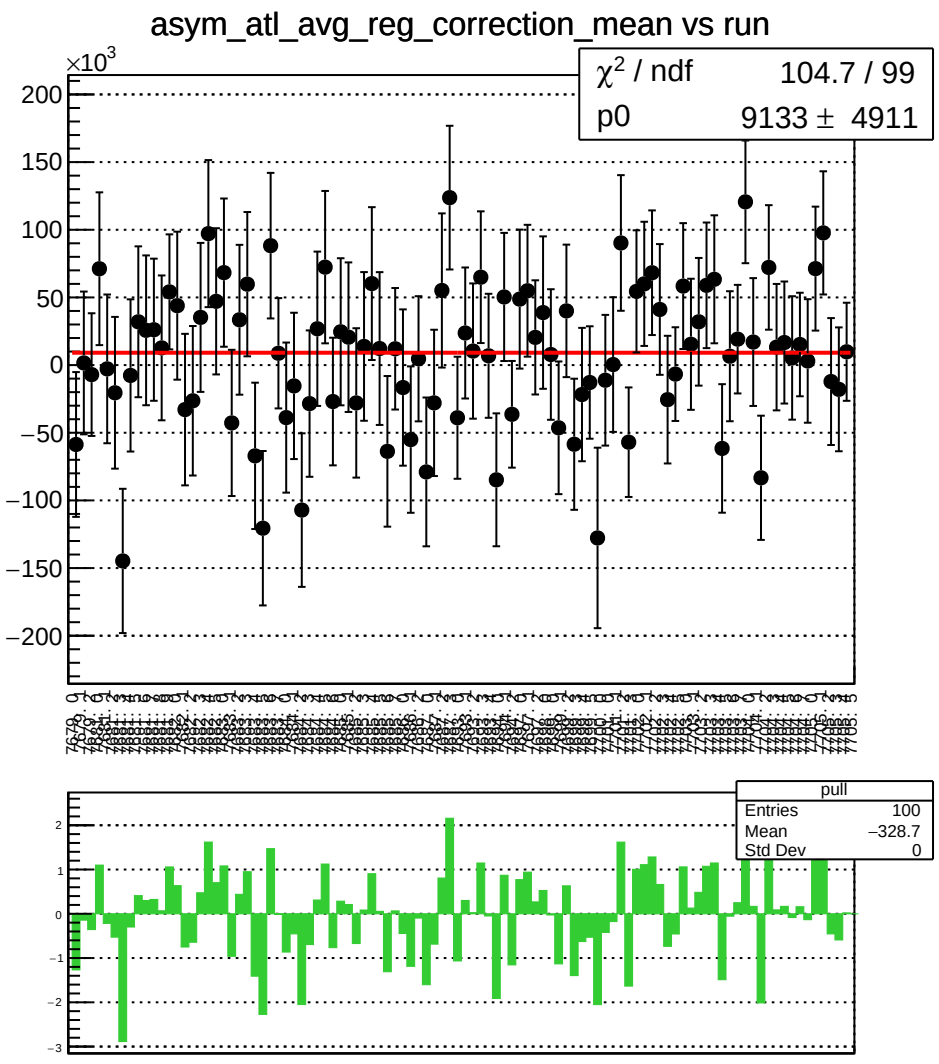

pull1D
Entries 100
Mean −0.05286
Std Dev 1.07
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

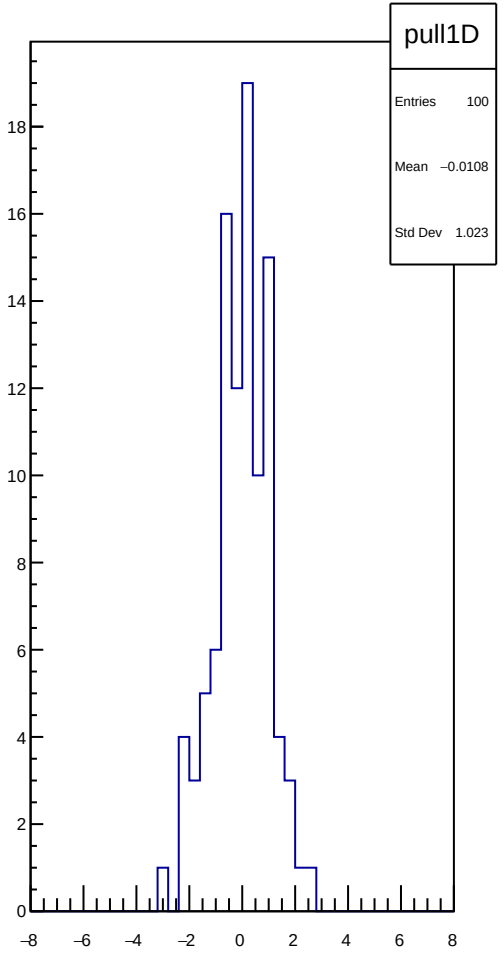

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.019e+06 / 99
p0 3.392e−10 ± 3.564e−13
6
5
4
3
2
1

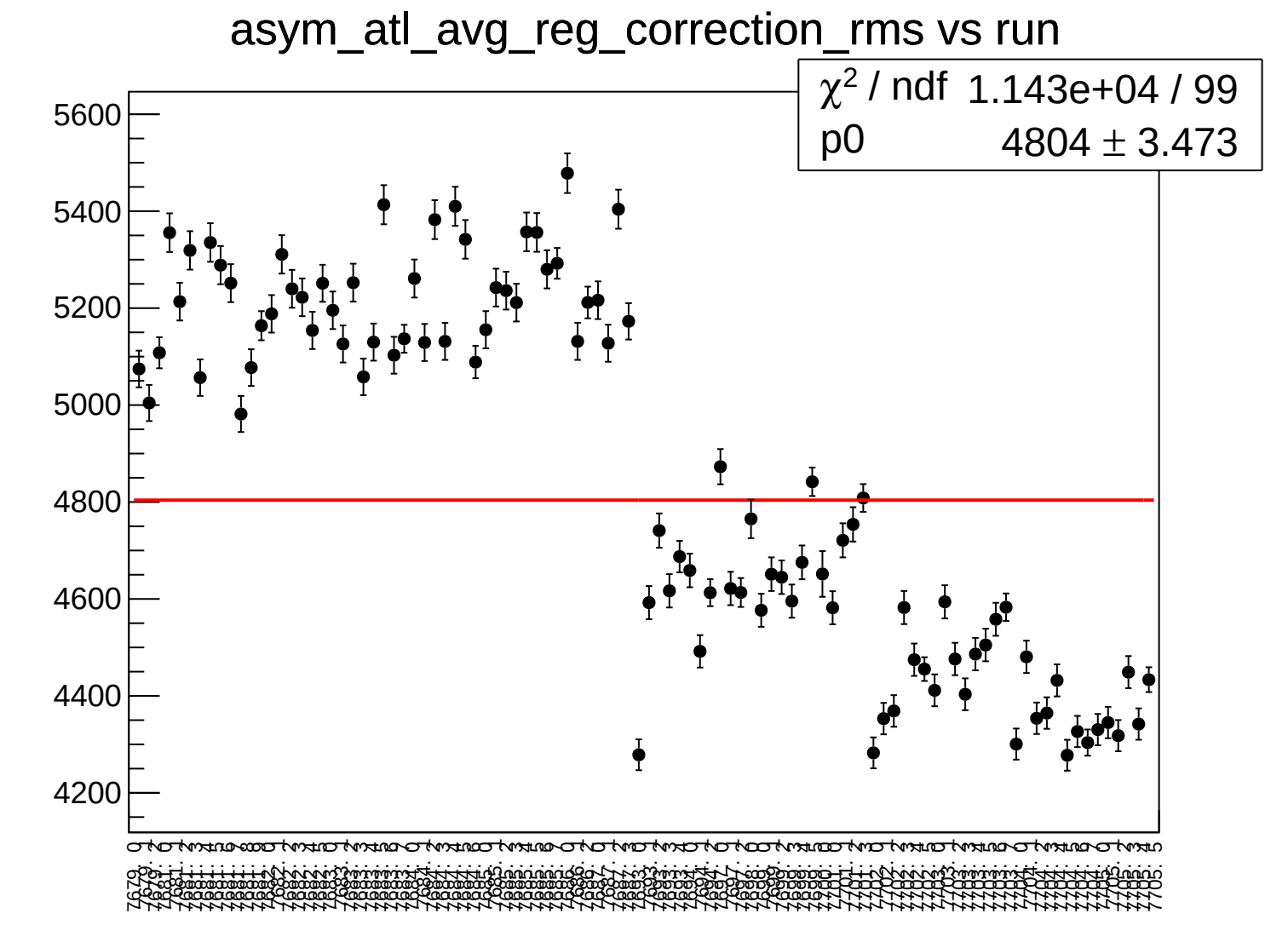

reg_asym_atl_avg_mean vs run
χ² / ndf 85.99 / 99
p0 −1948 ± 1792
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −191
Std Dev 0
2
1
0
−1
−2

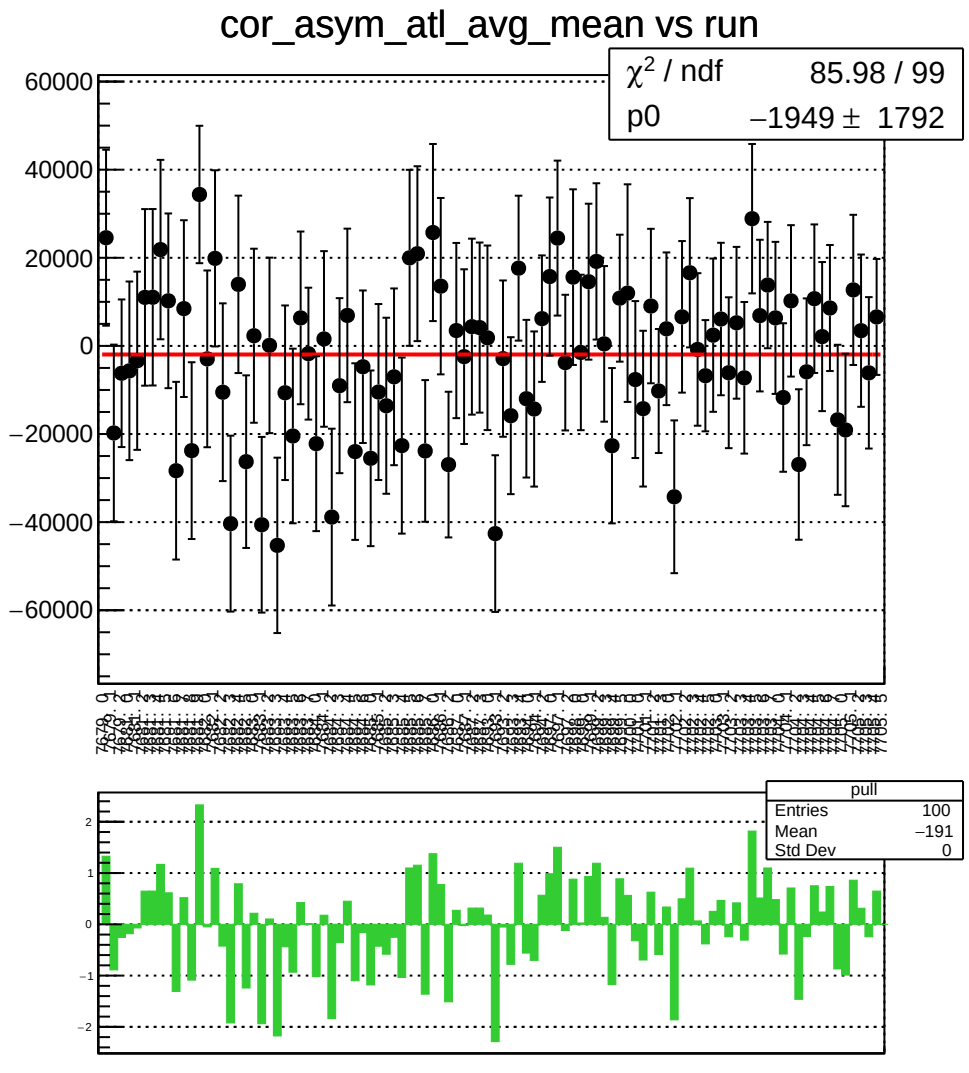

pull1D
Entries 100
Mean −0.01418
Std Dev 0.9272
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

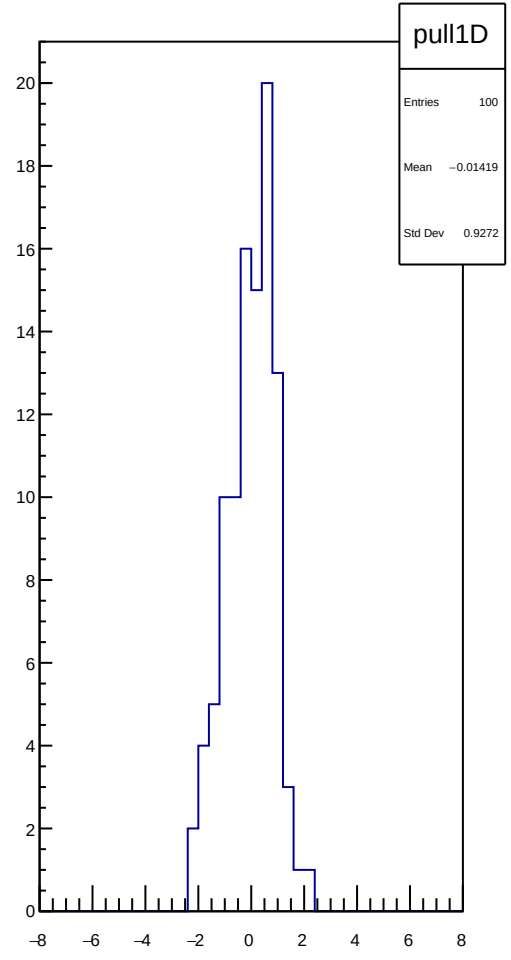

reg_asym_atl_avg_rms vs run
χ^2 / ndf 9726 / 99
p0 1754 ± 1.267
2000
1900
1800
1700
1600

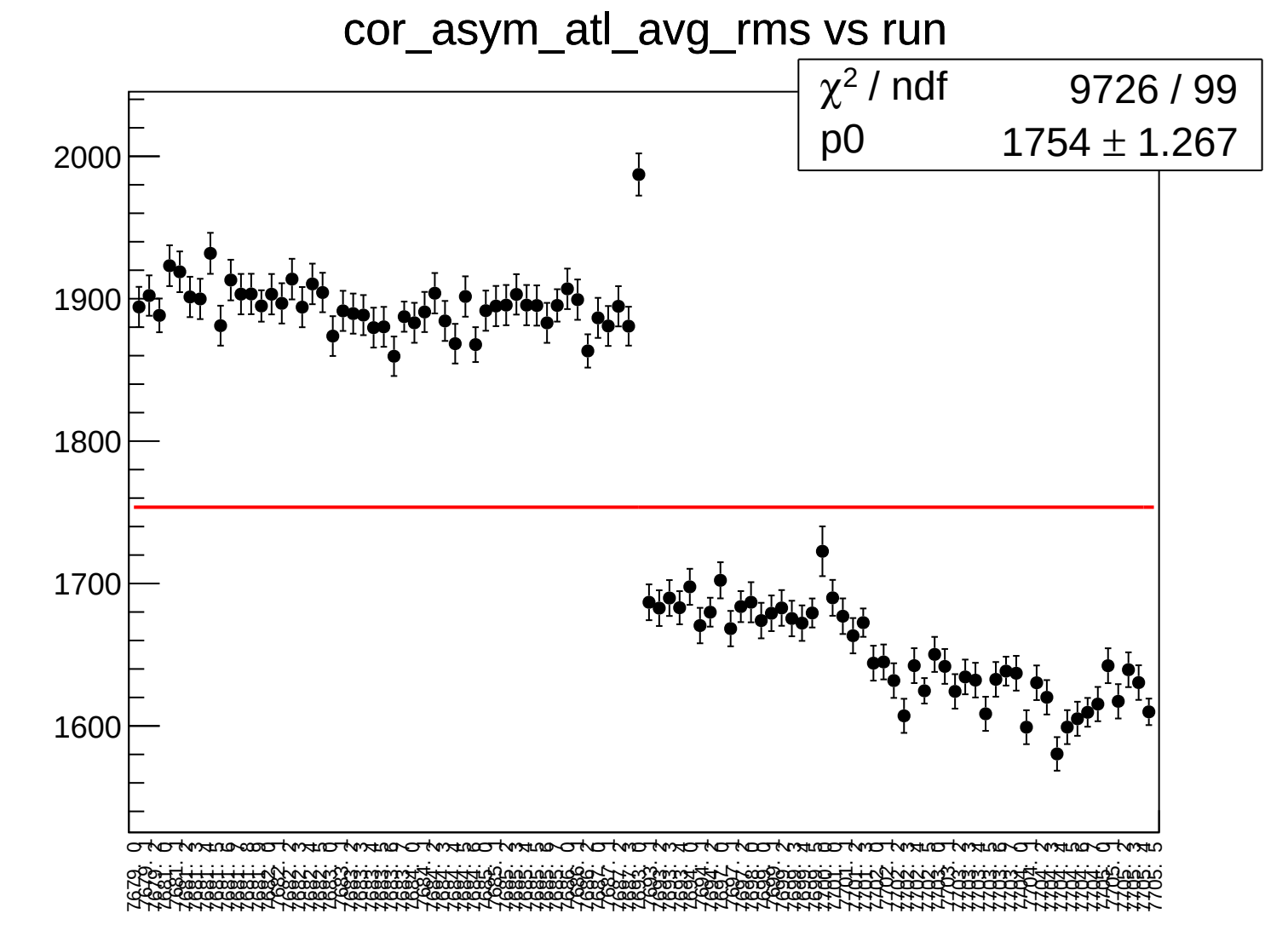

asym_atl_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 104.7 / 99
p0 9133 ± 4911
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 100
Mean −328.7
Std Dev 0
2
1
0
−1
−2
−3

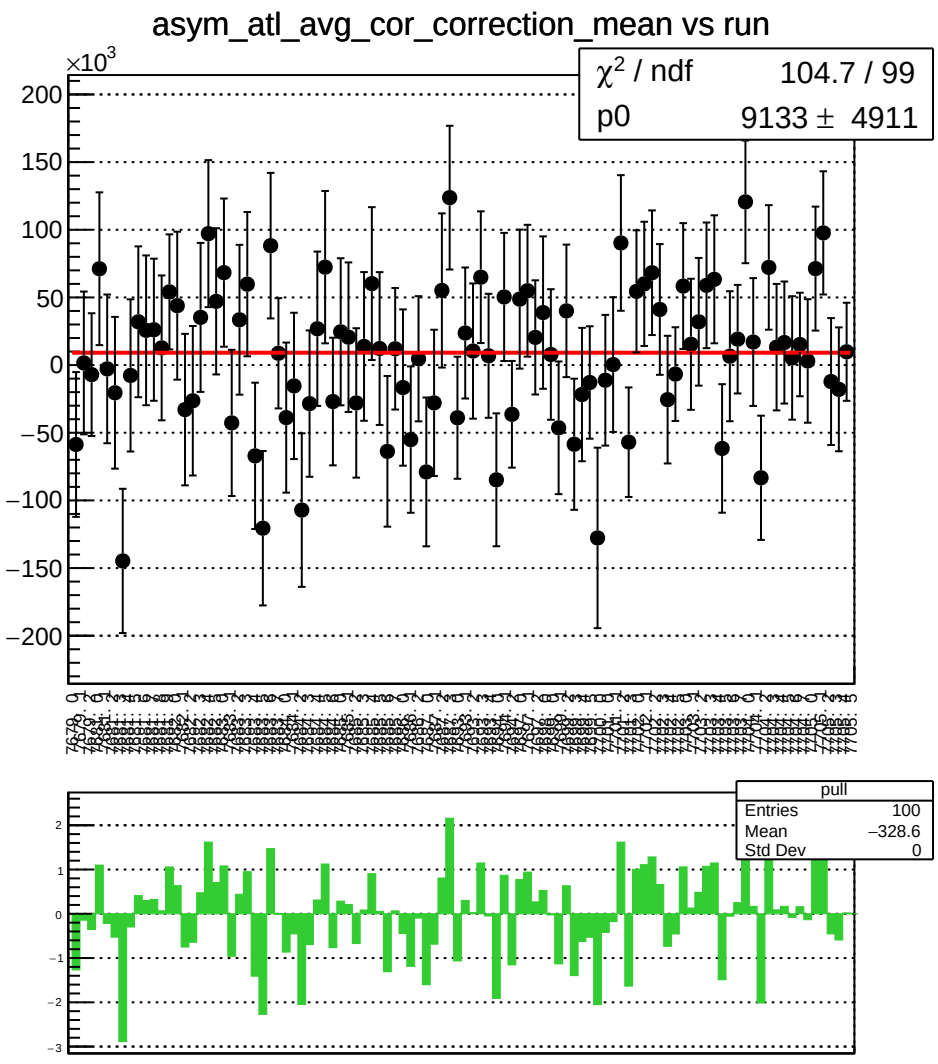

pull1D
Entries 100
Mean −0.0108
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

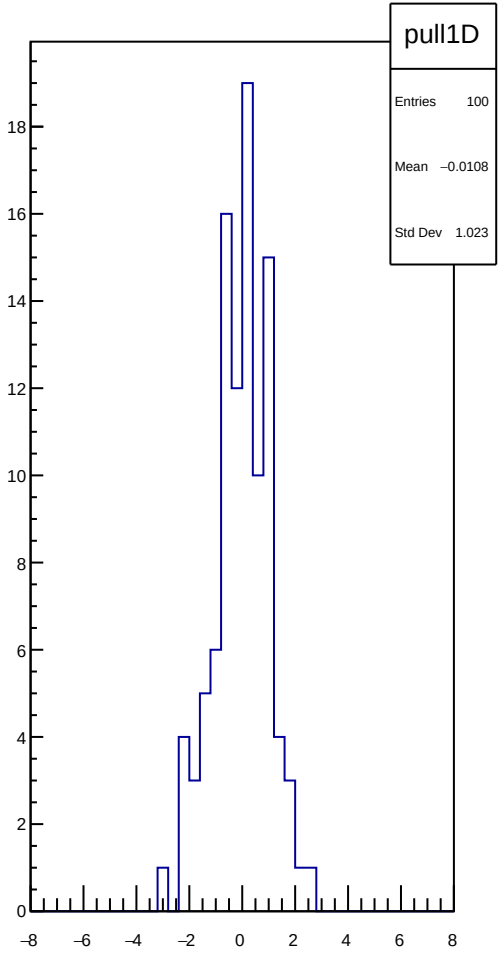

asym_atl_avg_reg_correction_rms vs run
χ^2 / ndf 1.143e+04 / 99
p0 4804 ± 3.473
5600
5400
5200
5000
4800
4600
4400
4200

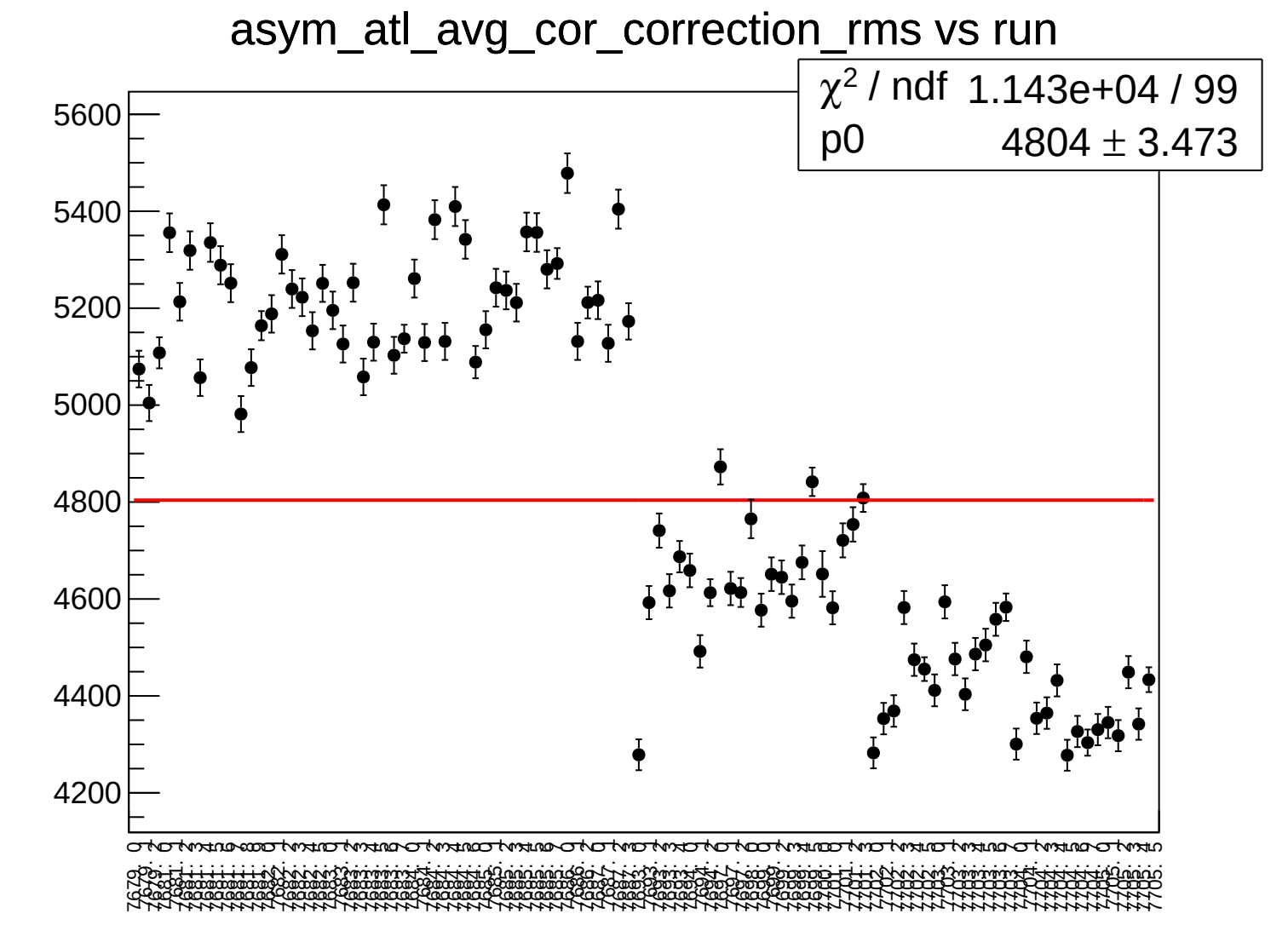

cor_asym_atl_avg_mean vs run
χ² / ndf 85.98 / 99
p0 −1949 ± 1792
pull
Entries 100
Mean −191
Std Dev 0

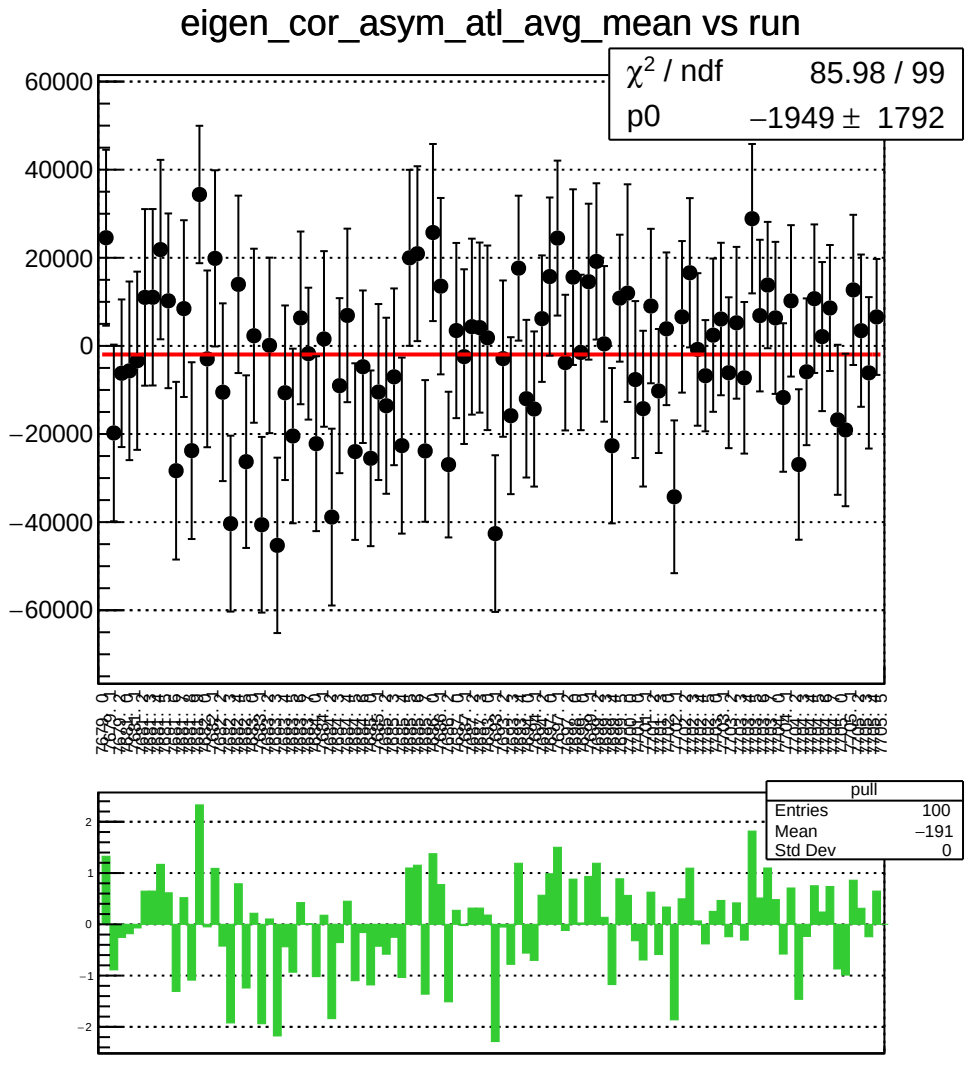

pull1D
Entries 100
Mean −0.01419
Std Dev 0.9272

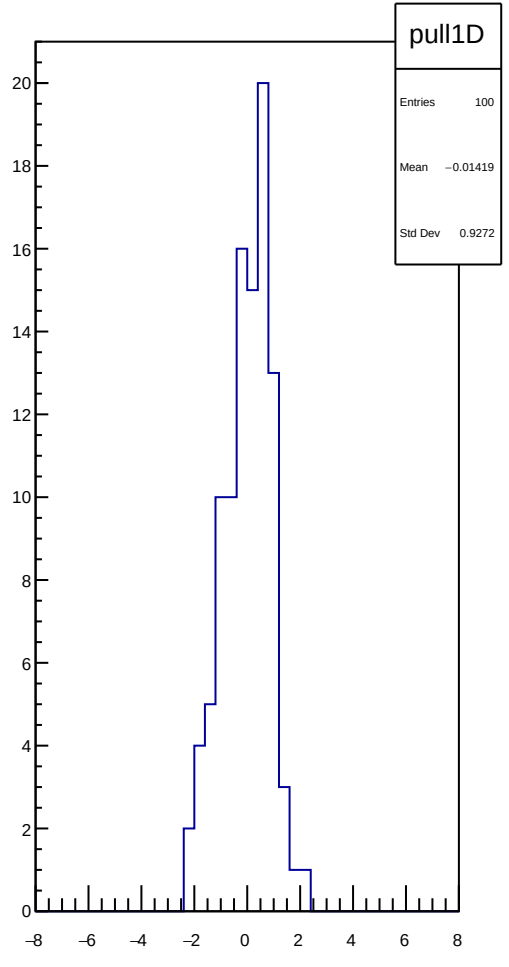

cor_asym_atl_avg_rms vs run
χ² / ndf 9726 / 99
p0 1754 ± 1.267
2000
1900
1800
1700
1600

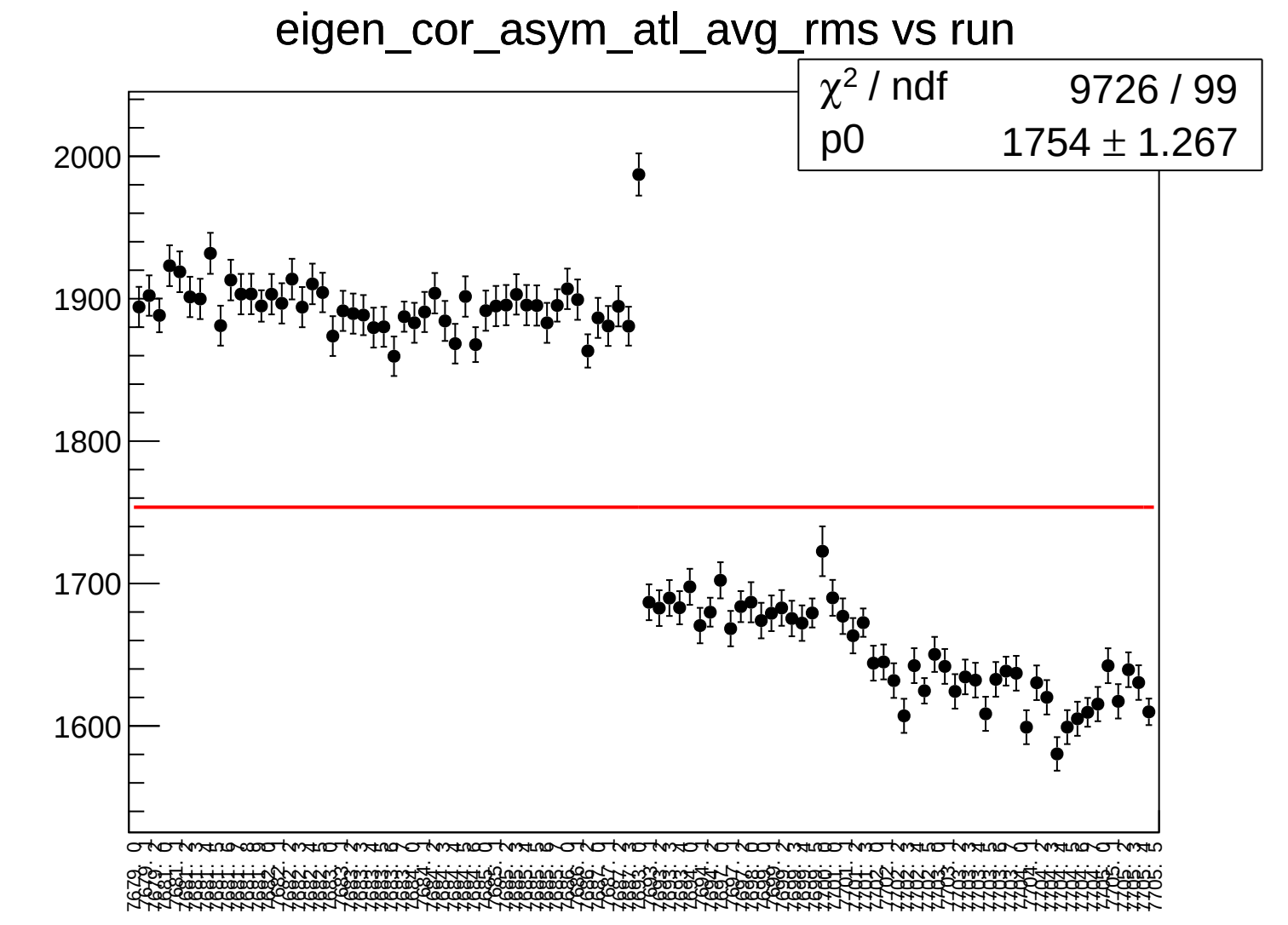

asym_atl_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 104.7 / 99
p0 9133 ± 4911
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 100
Mean −328.6
Std Dev 0
2
1
0
−1
−2
−3

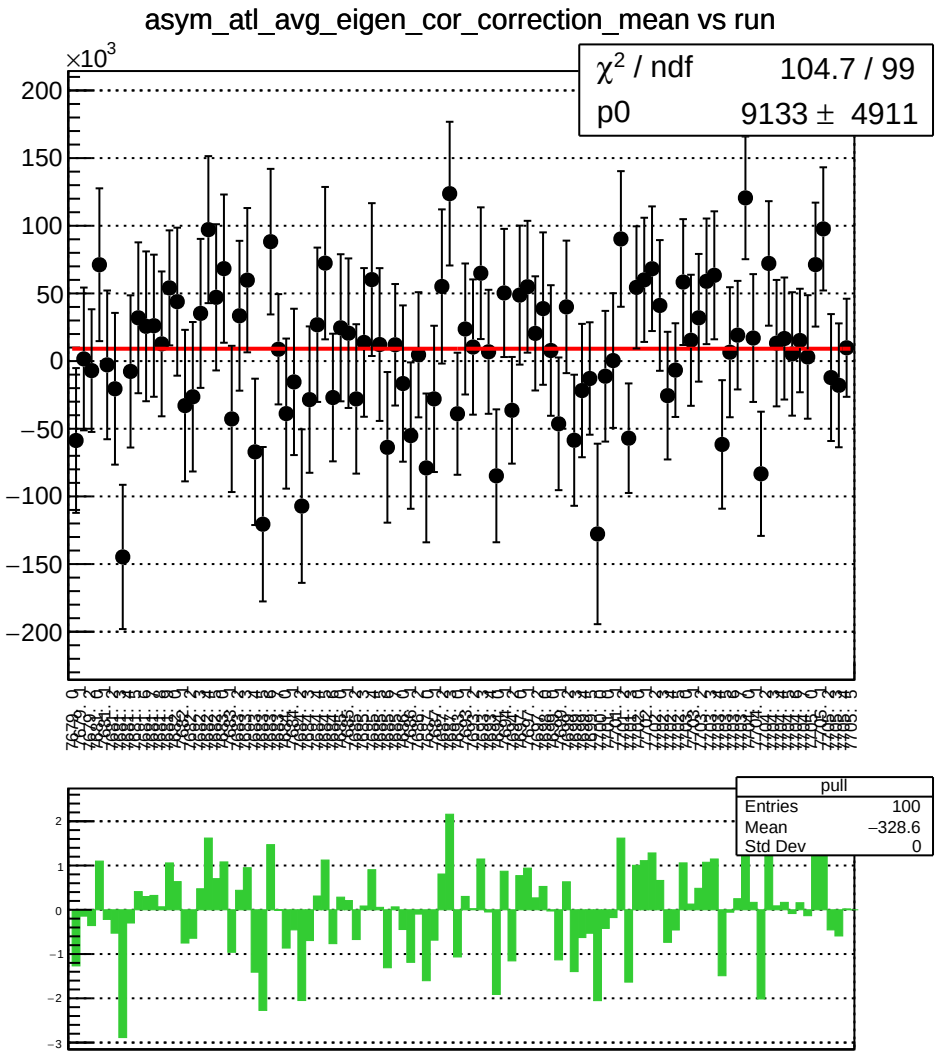

pull1D
Entries 100
Mean −0.0108
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

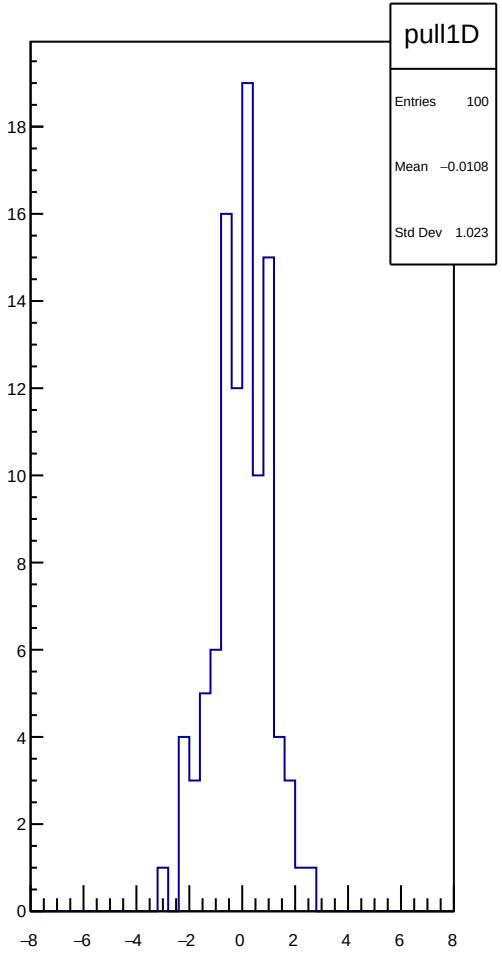

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 1.143e+04 / 99
p0 4804 ± 3.473
5600
5400
5200
5000
4800
4600
4400
4200

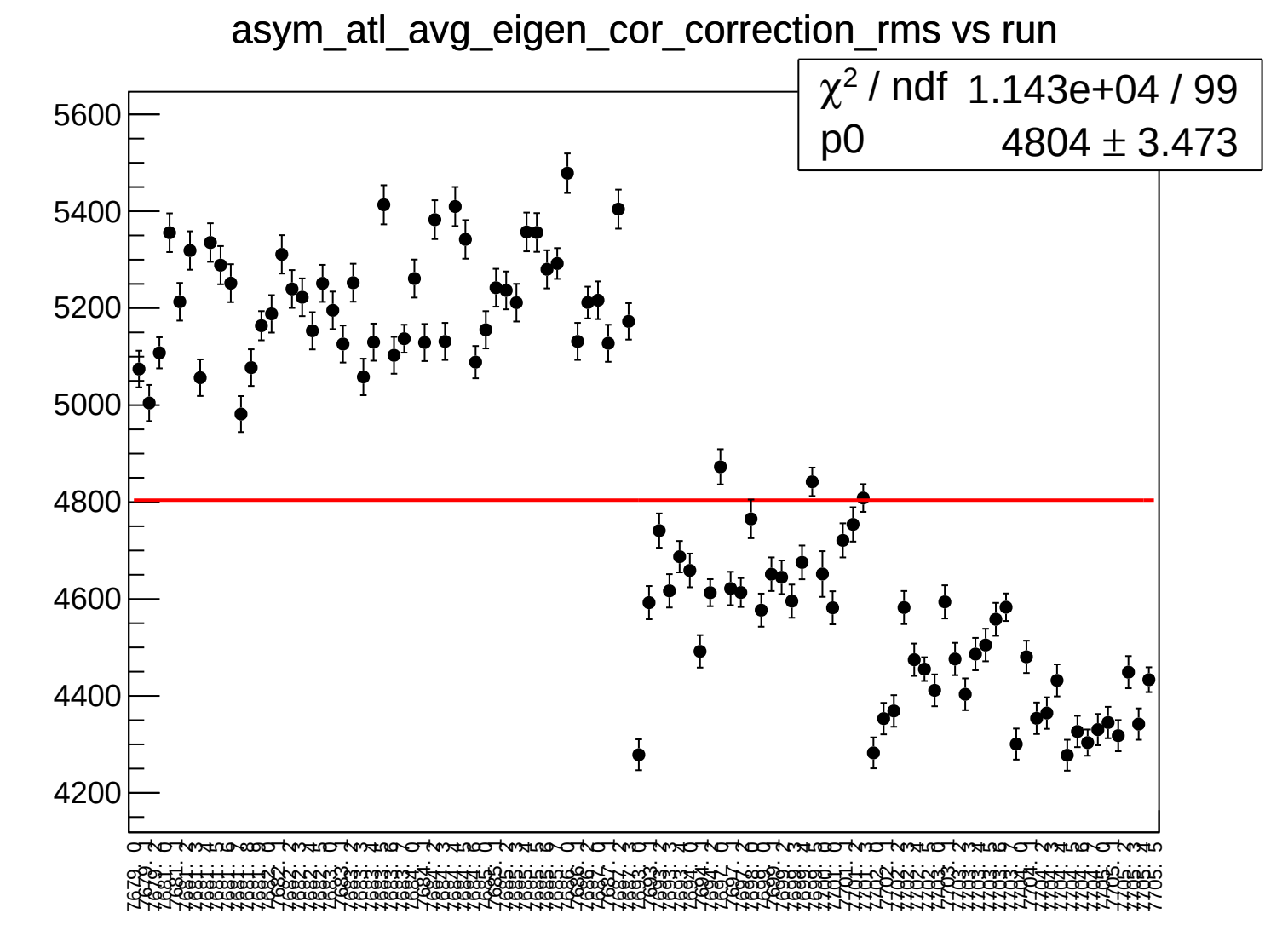

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 85.98 / 99
p0 −1949 ± 1792
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −191
Std Dev 0
2
1
0
−1
−2

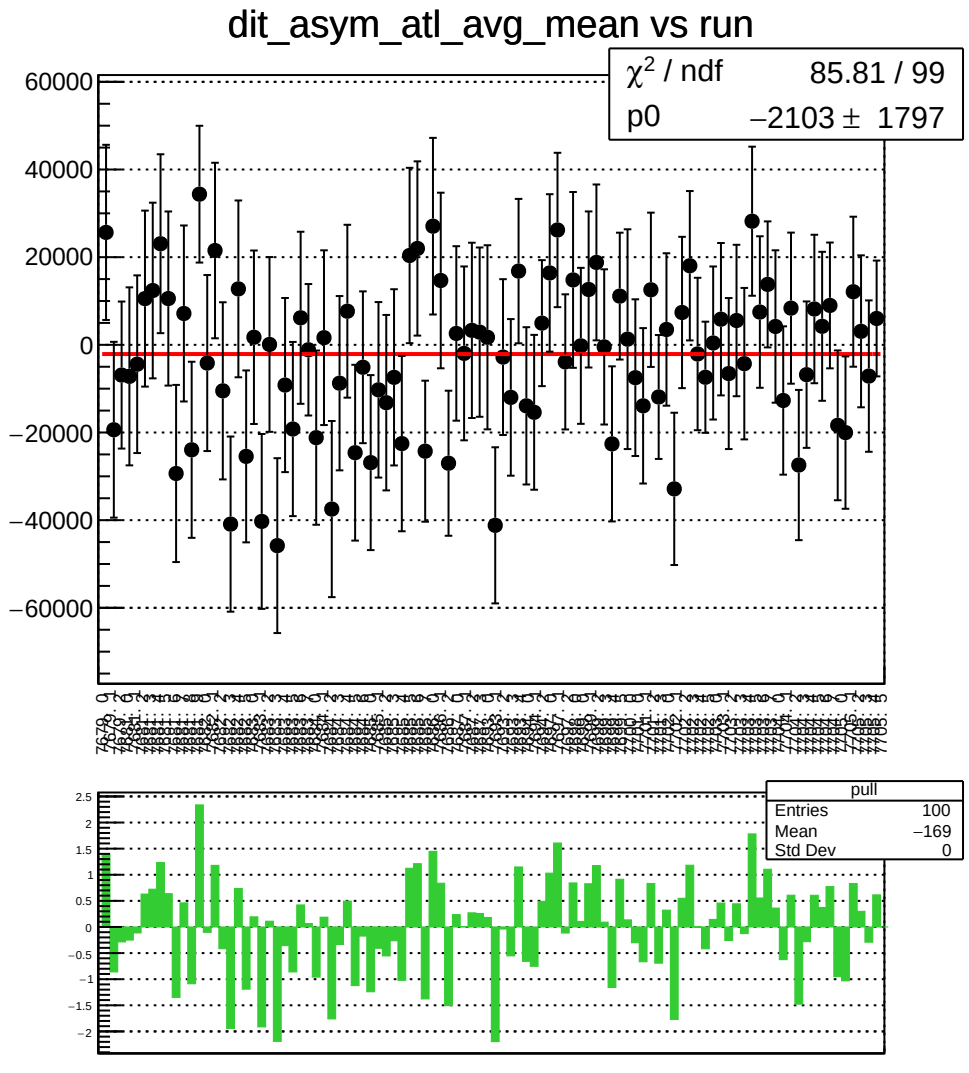

pull1D
Entries 100
Mean −0.01419
Std Dev 0.9272
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

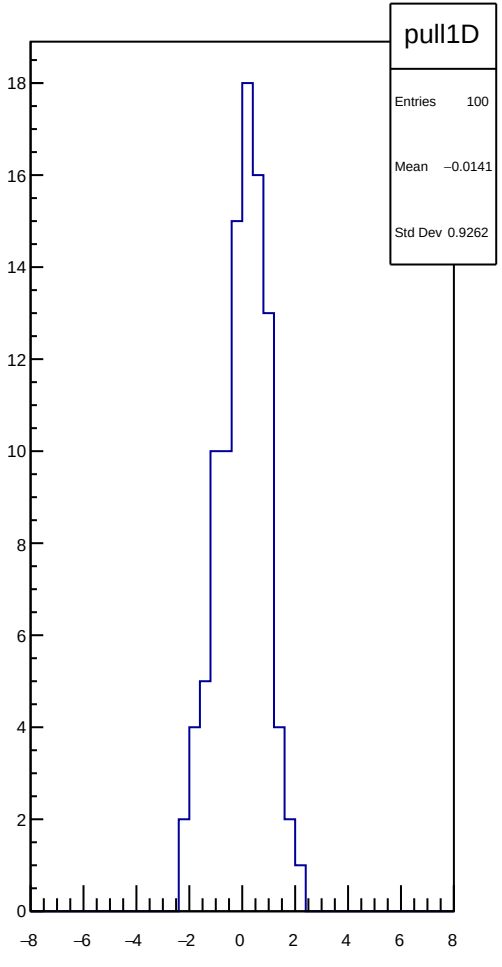

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 9726 / 99
p0 1754 ± 1.267
2000
1900
1800
1700
1600

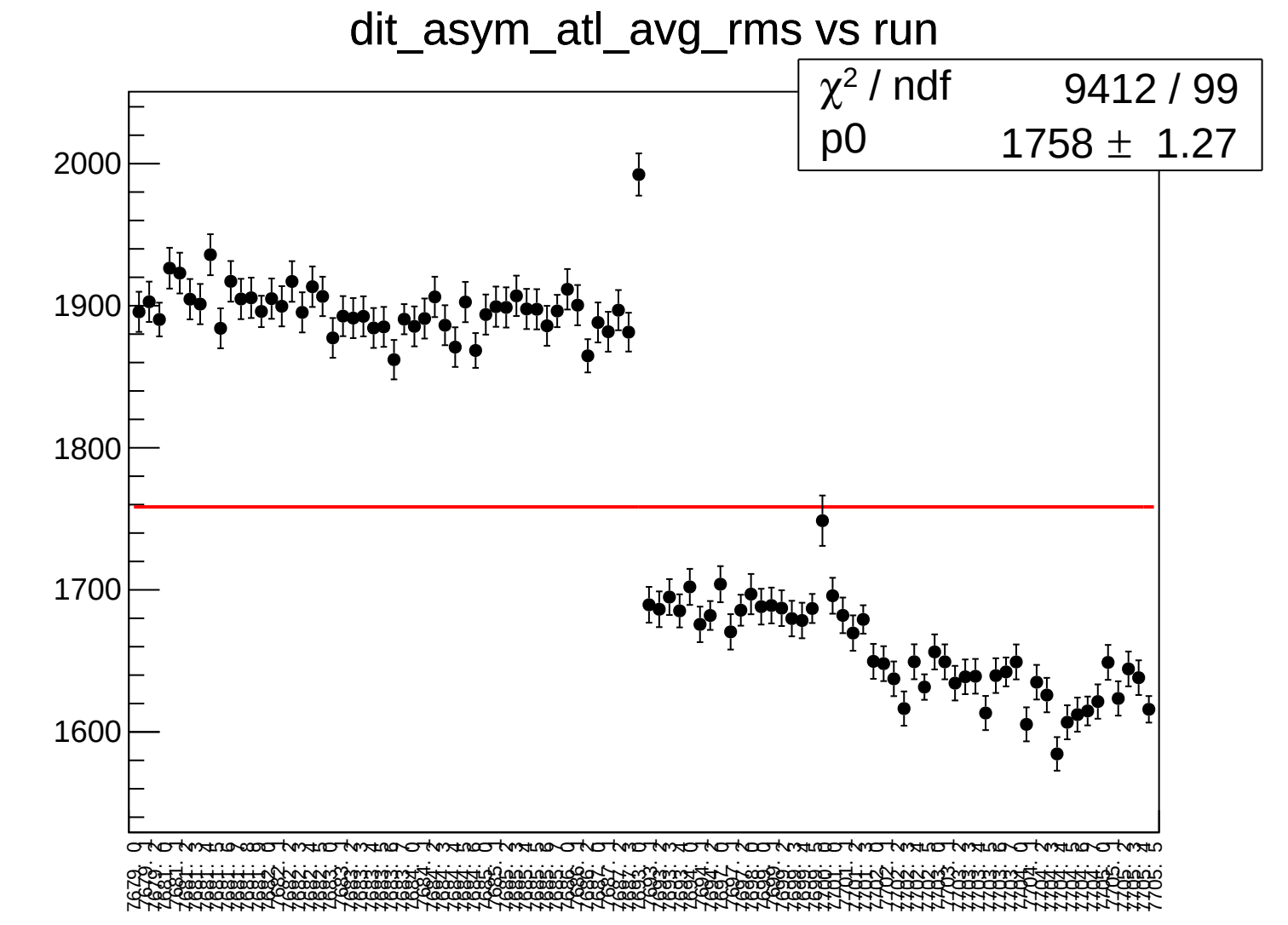

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 104.7 / 99
p0 9133 ± 4911
pull
Entries 100
Mean −328.6
Std Dev 0

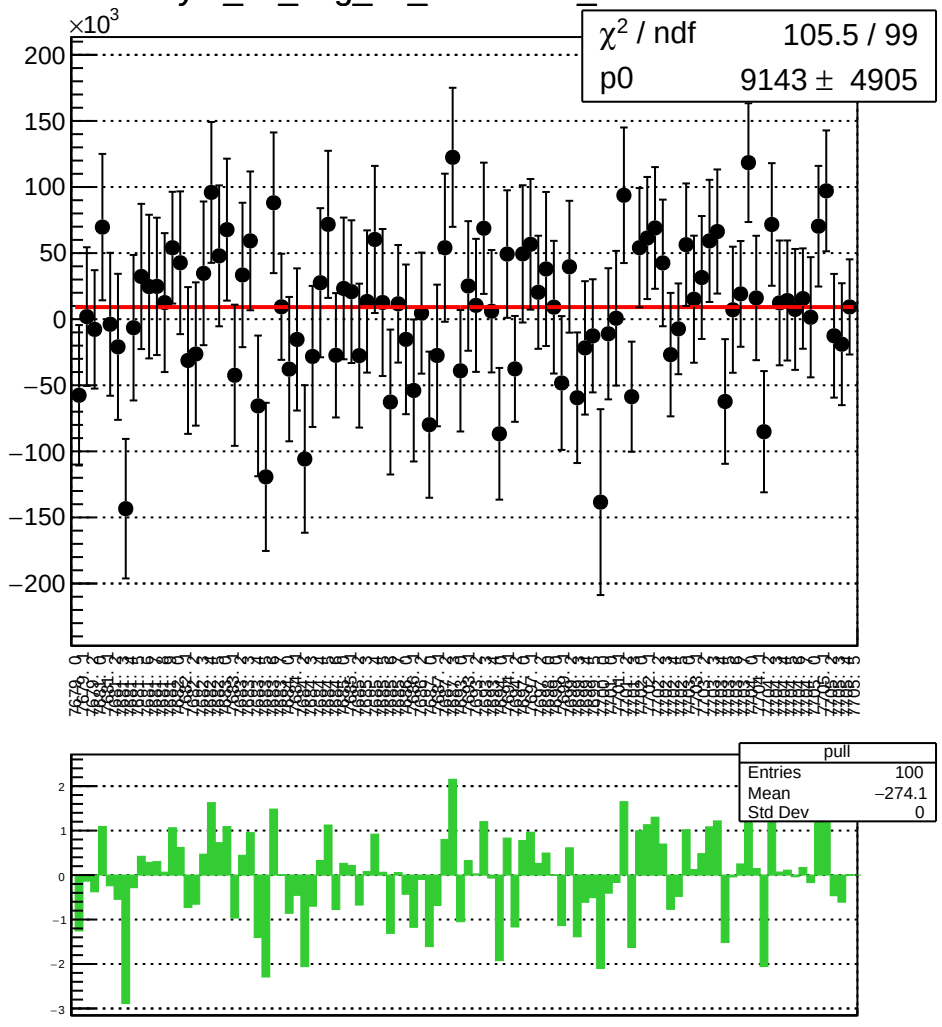

pull1D
Entries 100
Mean −0.0108
Std Dev 1.023

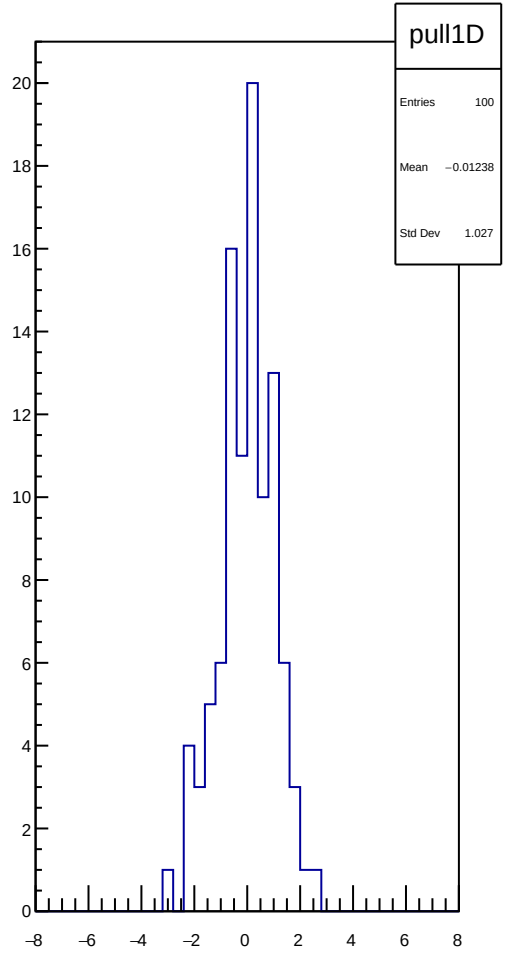

asym_atl_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 1.143e+04 / 99
p0 4804 ± 3.473
5600
5400
5200
5000
4800
4600
4400
4200

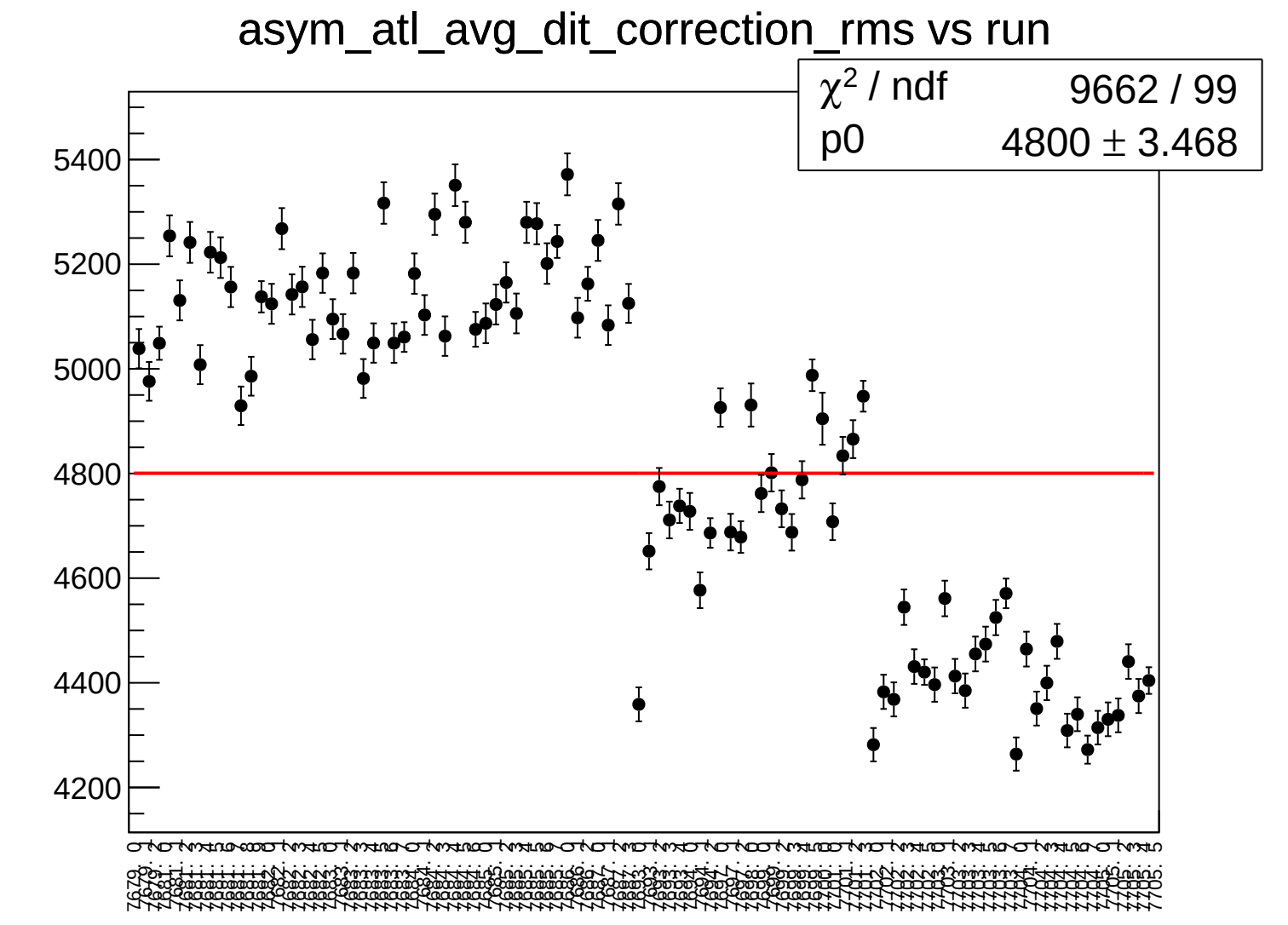

dit_asym_atl_avg_mean vs run
χ² / ndf 85.81 / 99
p0 −2103 ± 1797
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −169
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

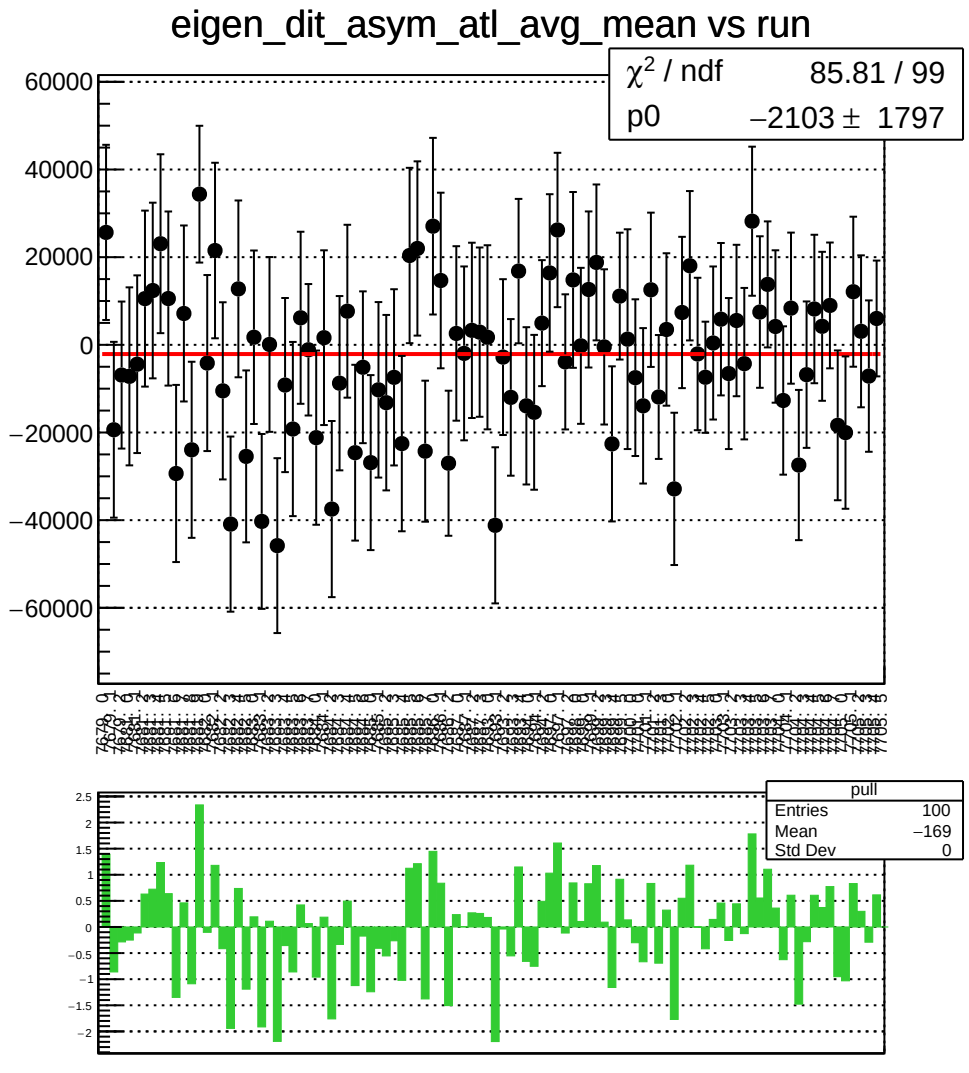

pull1D
Entries 100
Mean −0.0141
Std Dev 0.9262
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

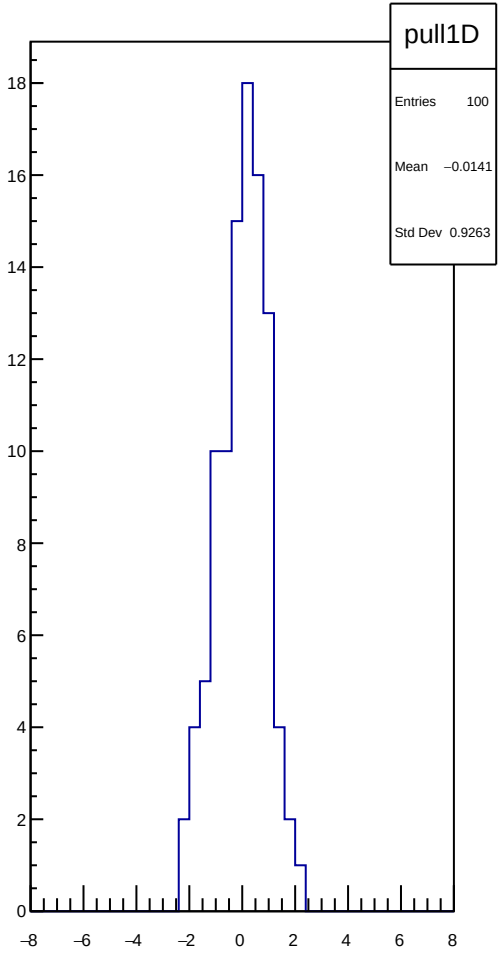

dit_asym_atl_avg_rms vs run
χ² / ndf 9412 / 99
p0 1758 ± 1.27
2000
1900
1800
1700
1600

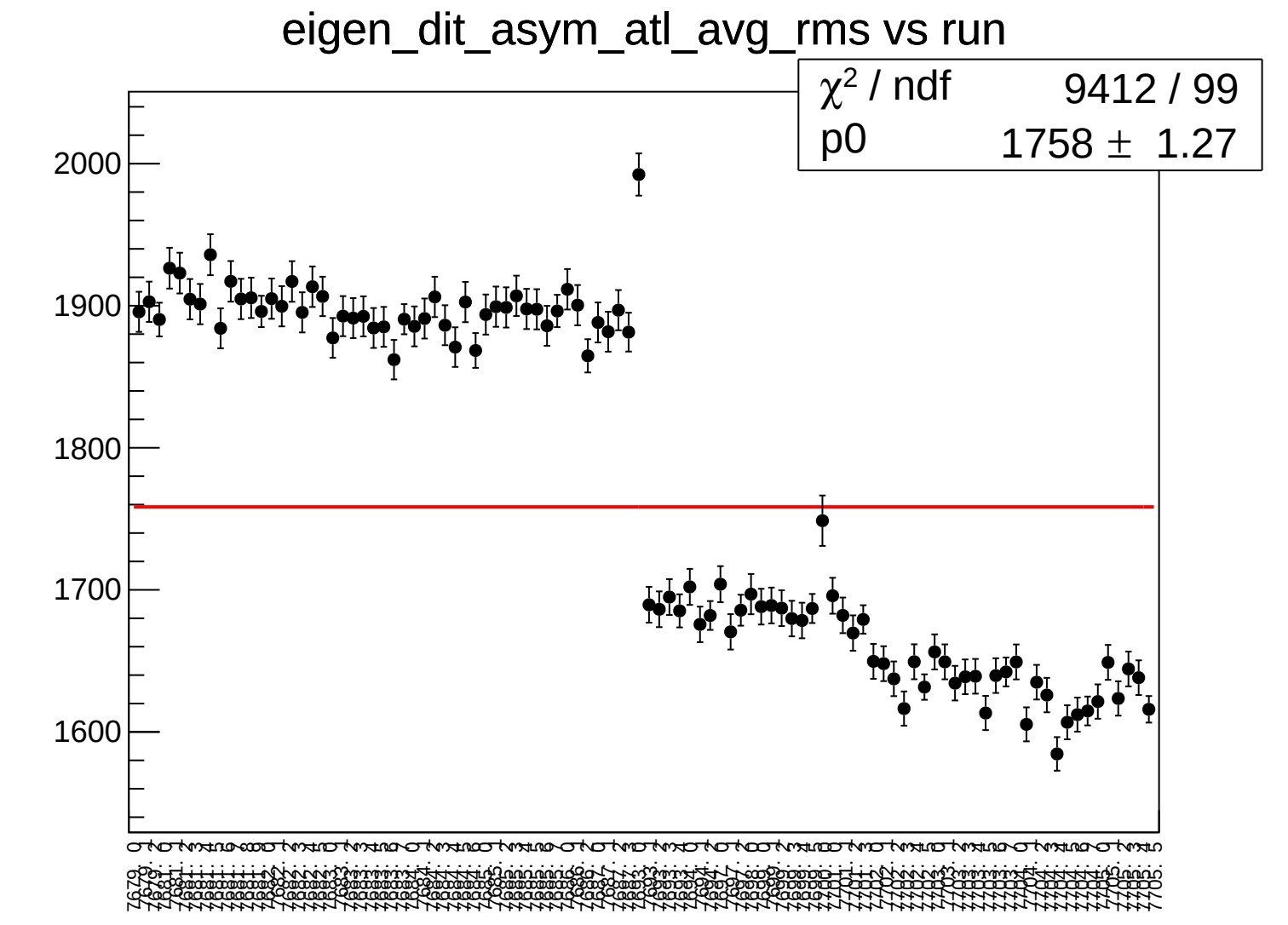

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 105.5 / 99
p0 9143 ± 4905
pull
Entries 100
Mean −274.1
Std Dev 0

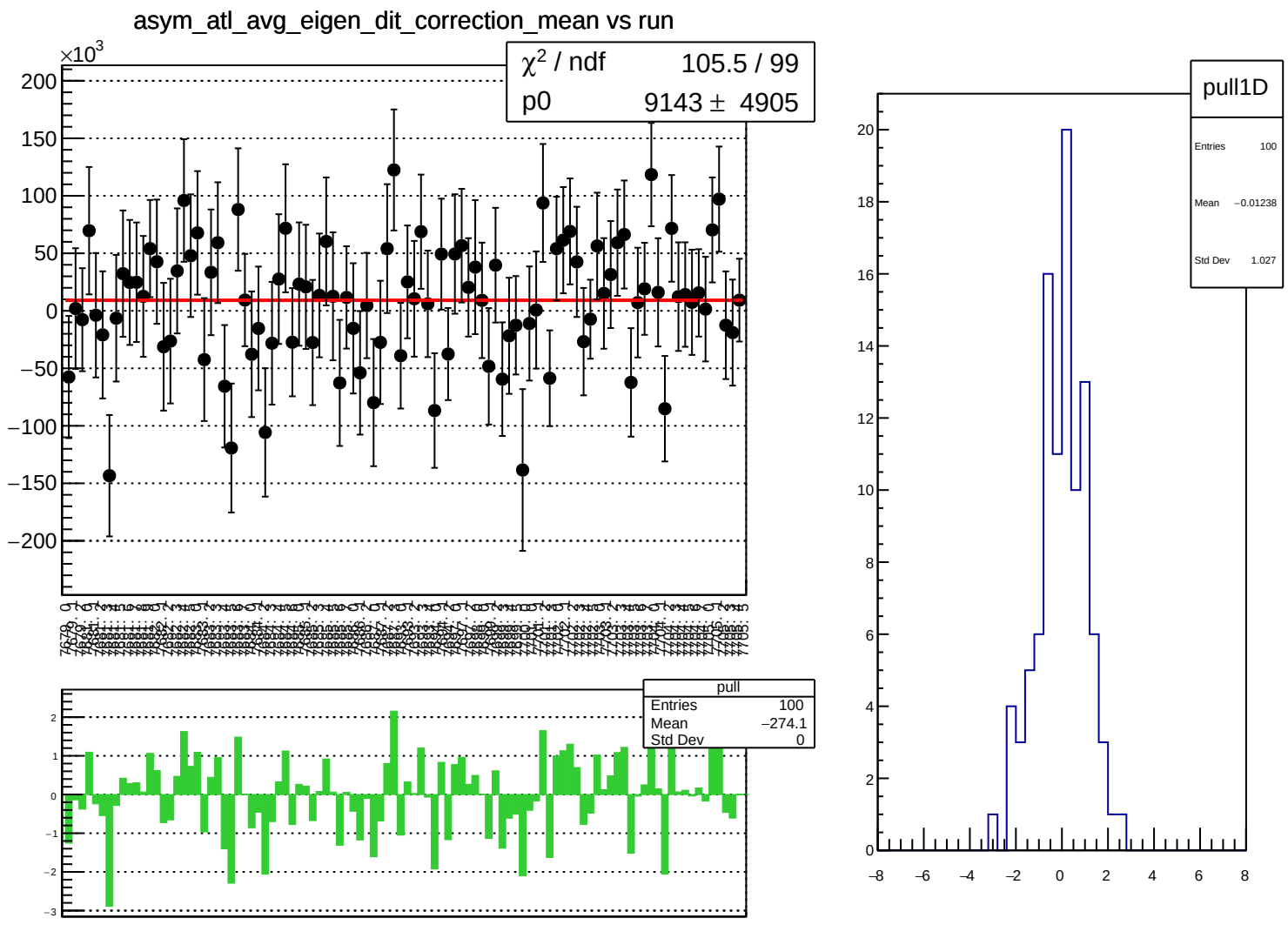

pull1D
Entries 100
Mean −0.01238
Std Dev 1.027

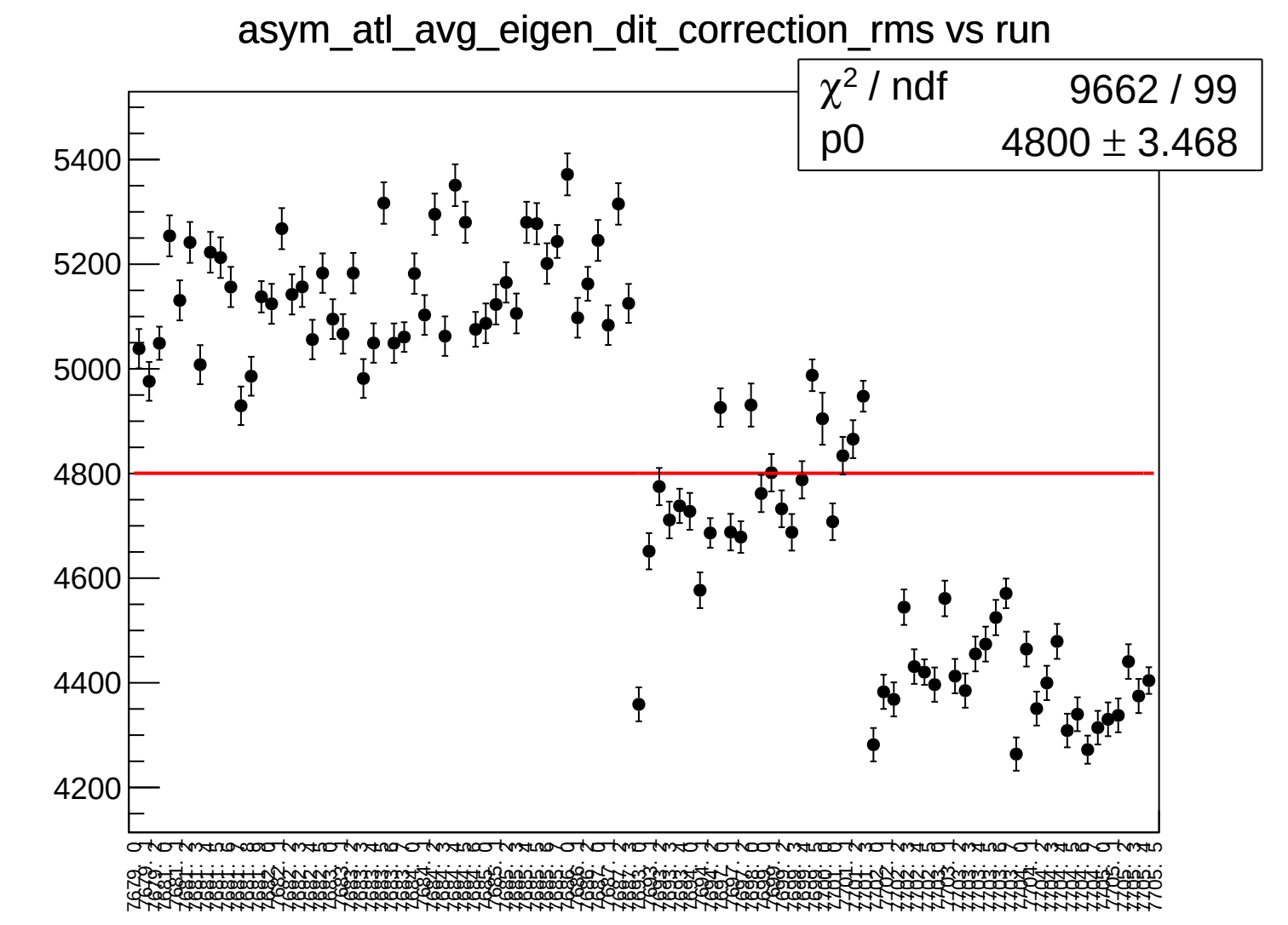

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 9662 / 99
p0 4800 ± 3.468
5400
5200
5000
4800
4600
4400
4200

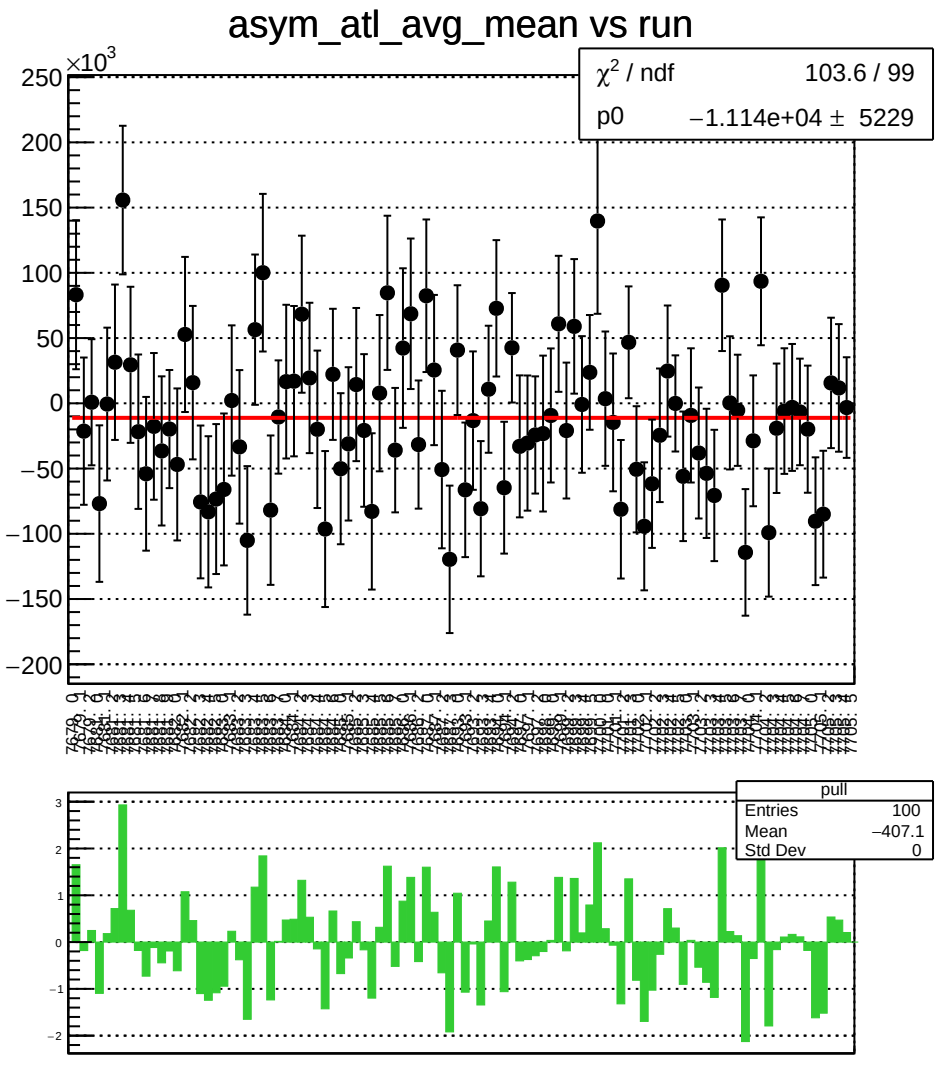

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 85.81 / 99
p0 −2103 ± 1797
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −169
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

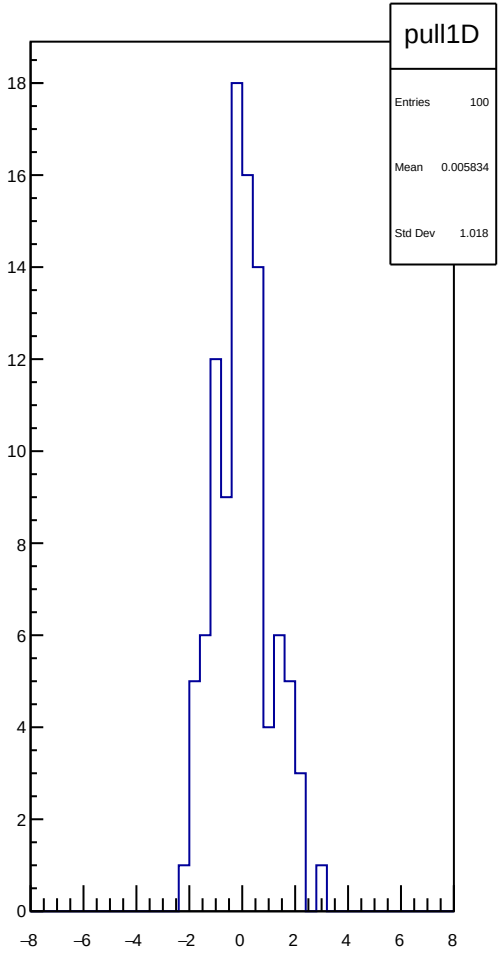

pull1D
Entries 100
Mean −0.0141
Std Dev 0.9263
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

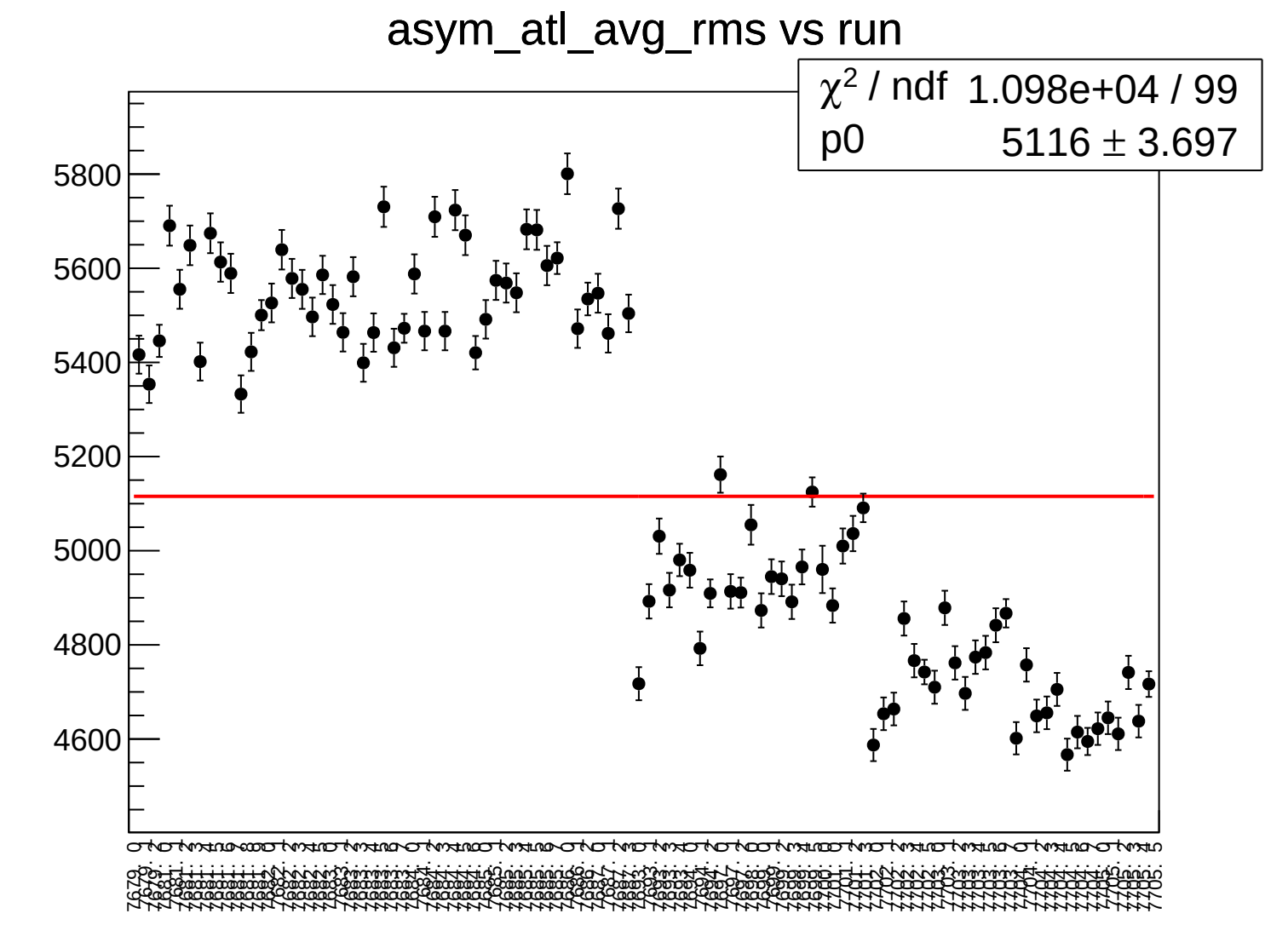

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 9412 / 99
p0 1758 ± 1.27
2000
1900
1800
1700
1600

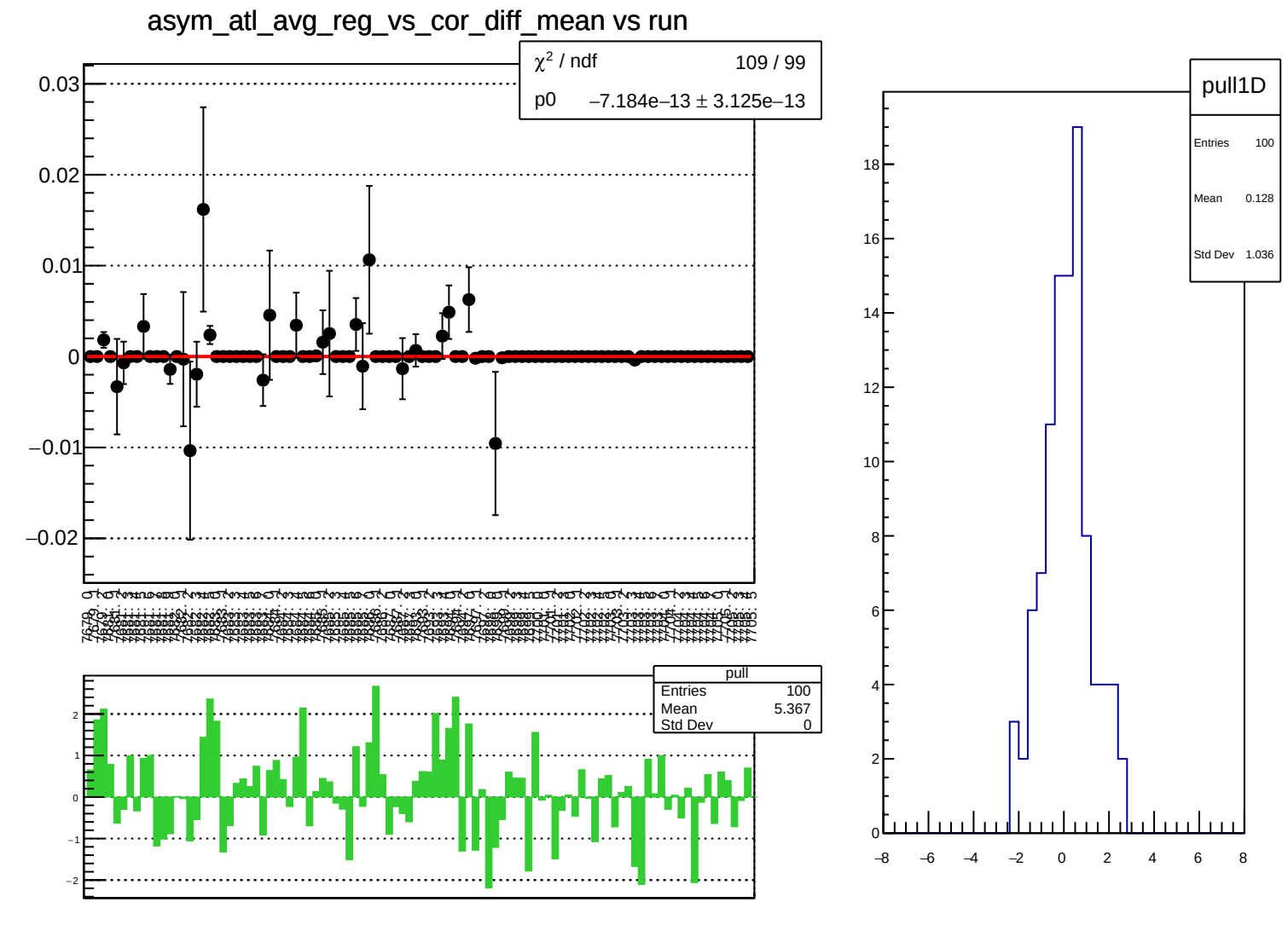

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 105.5 / 99
p0 9143 ± 4905
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 100
Mean −274.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean −0.01238
Std Dev 1.027
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

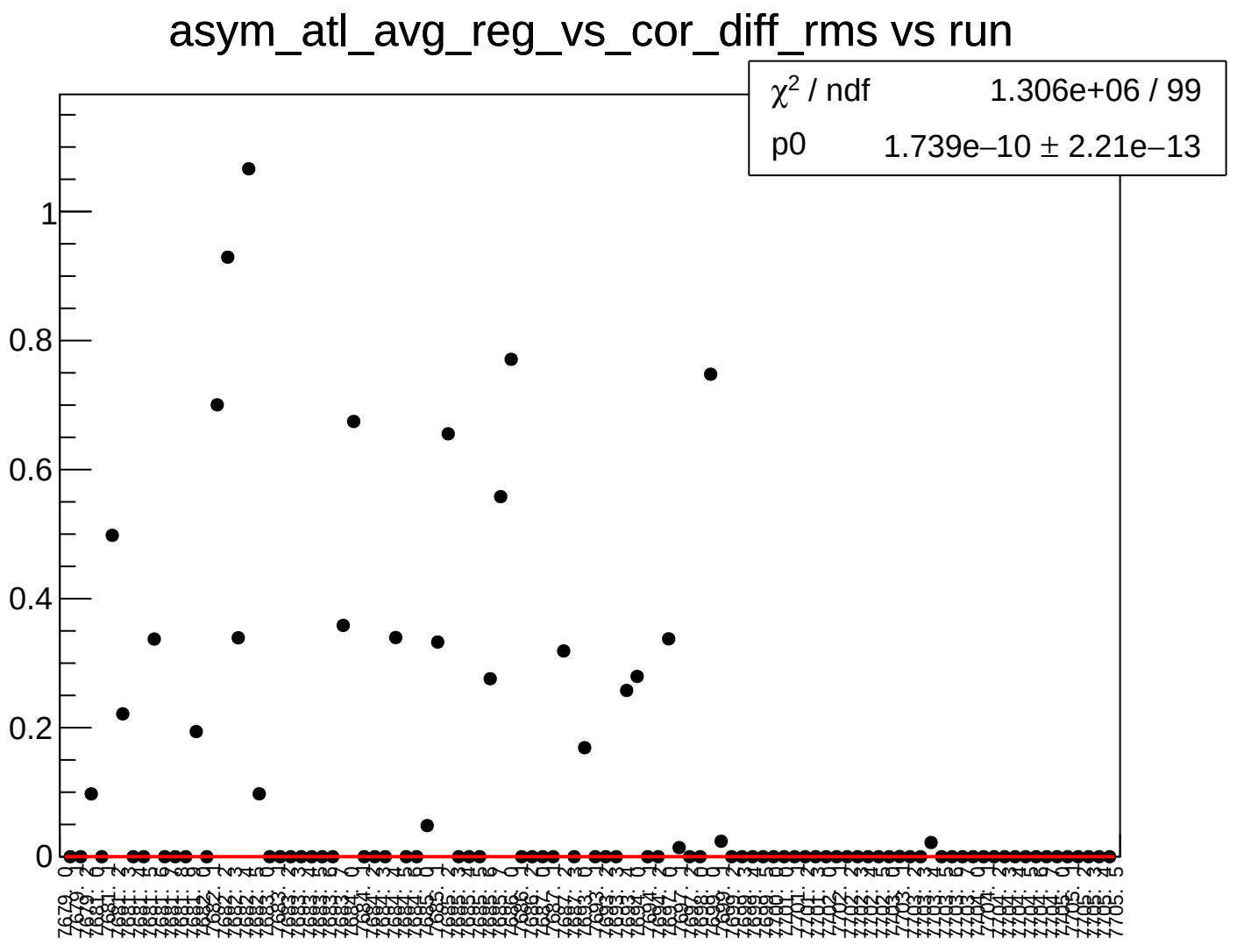

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 9662 / 99
p0 4800 ± 3.468
5400
5200
5000
4800
4600
4400
4200

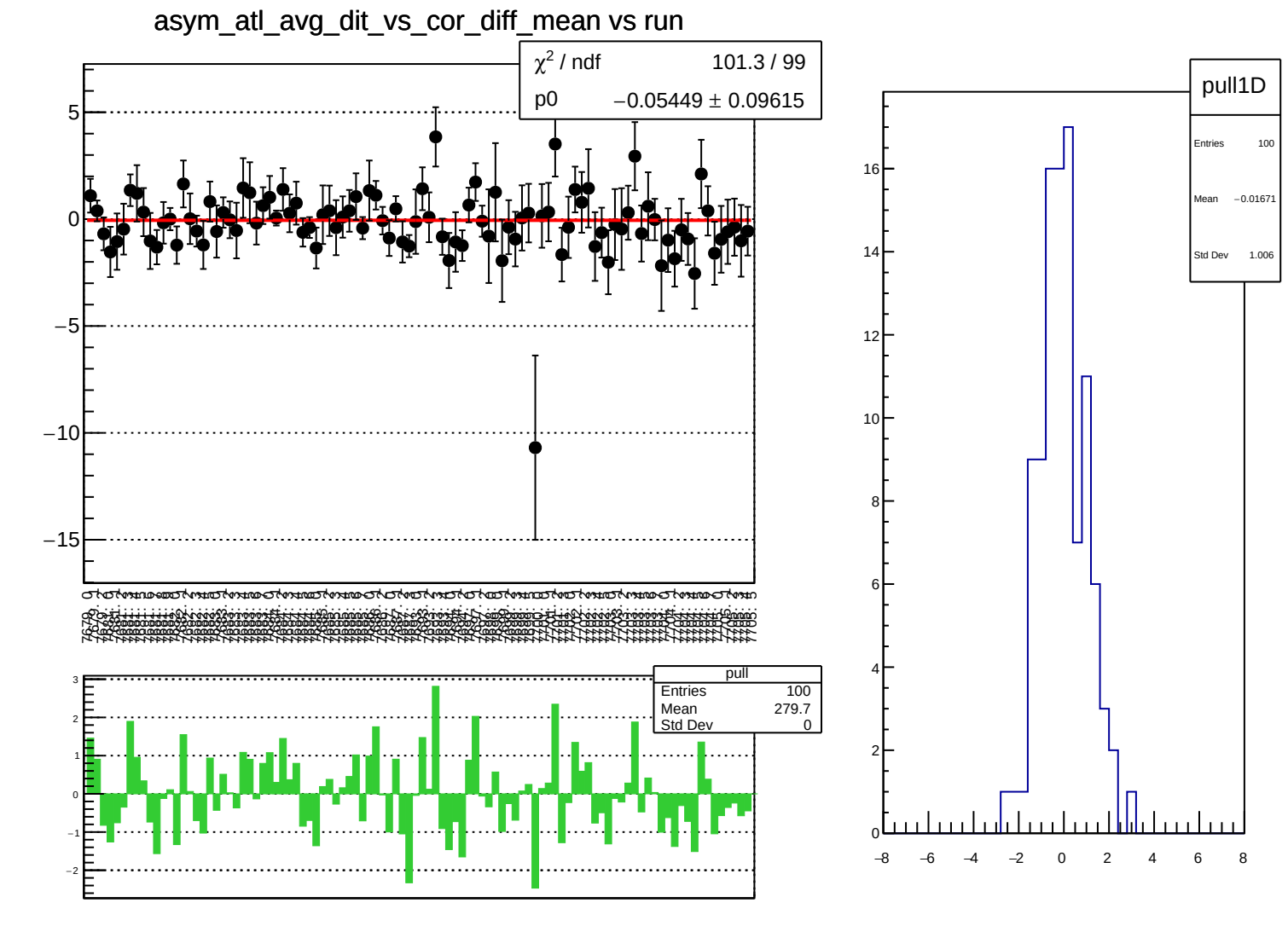

asym_atl_avg_mean vs run
×10^3
χ² / ndf 103.6 / 99
p0 −1.114e+04 ± 5229
pull
Entries 100
Mean −407.1
Std Dev 0

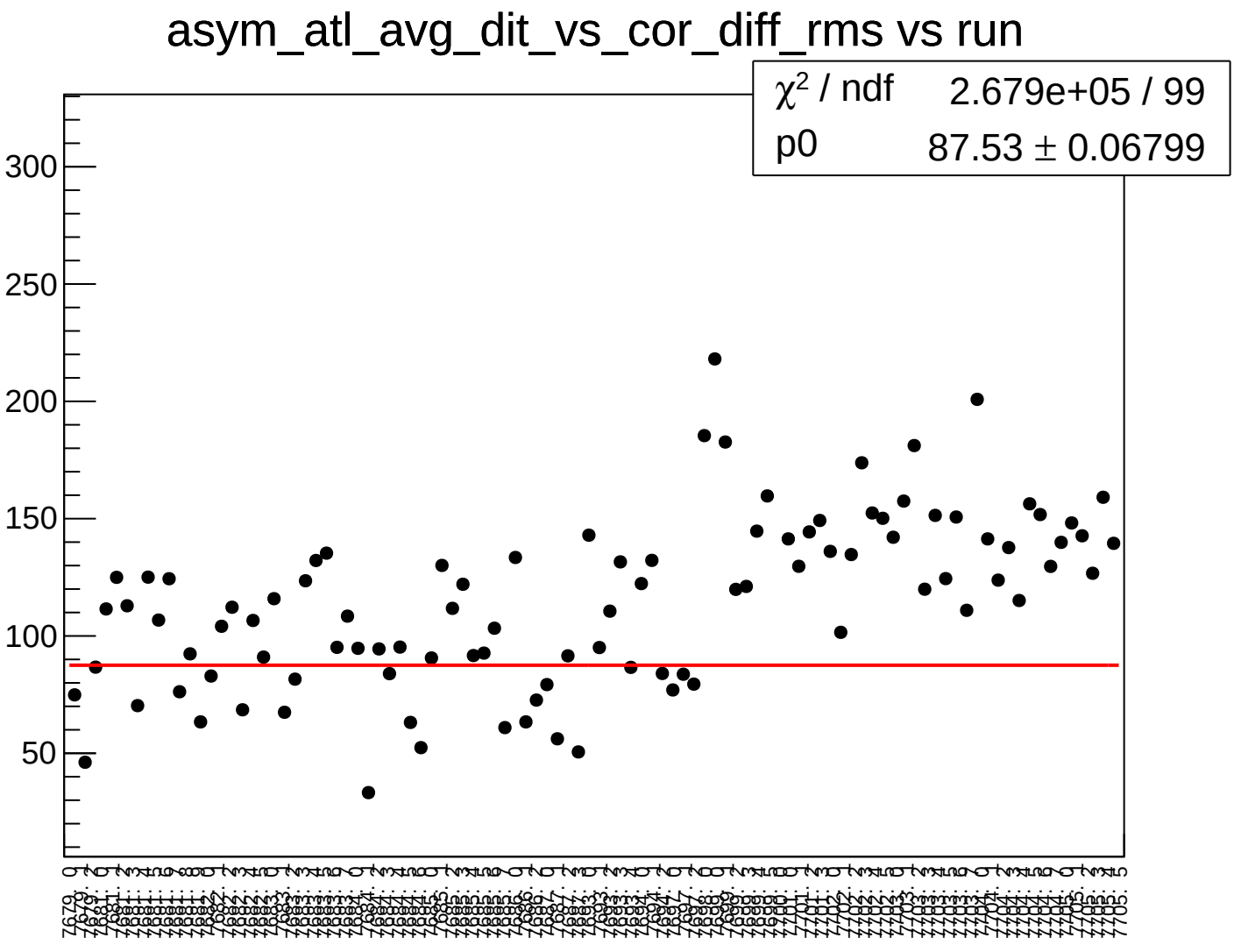

pull1D
Entries 100
Mean 0.005834
Std Dev 1.018

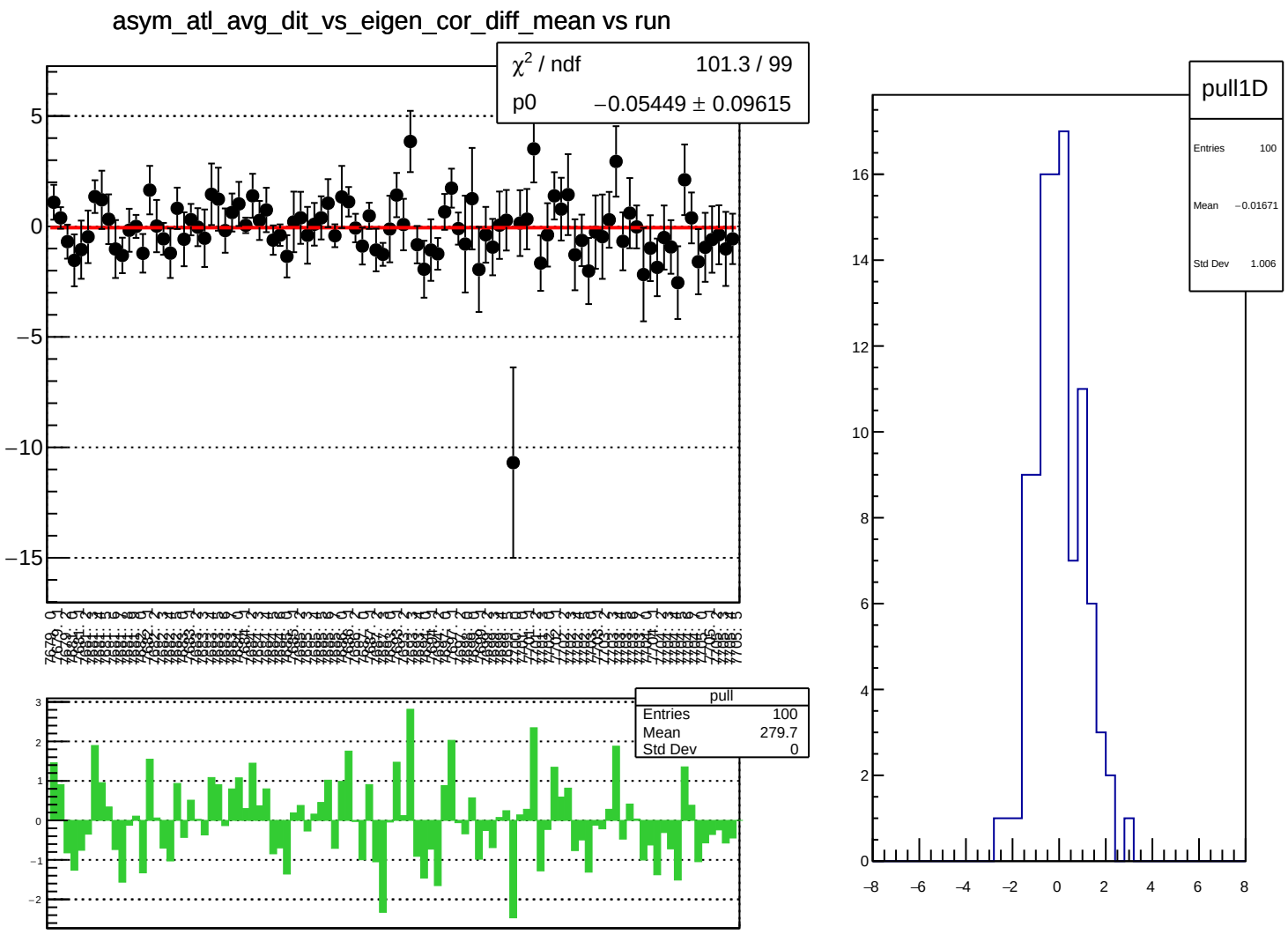

asym_atl_avg_rms vs run
χ² / ndf 1.098e+04 / 99
p0 5116 ± 3.697
5800
5600
5400
5200
5000
4800
4600

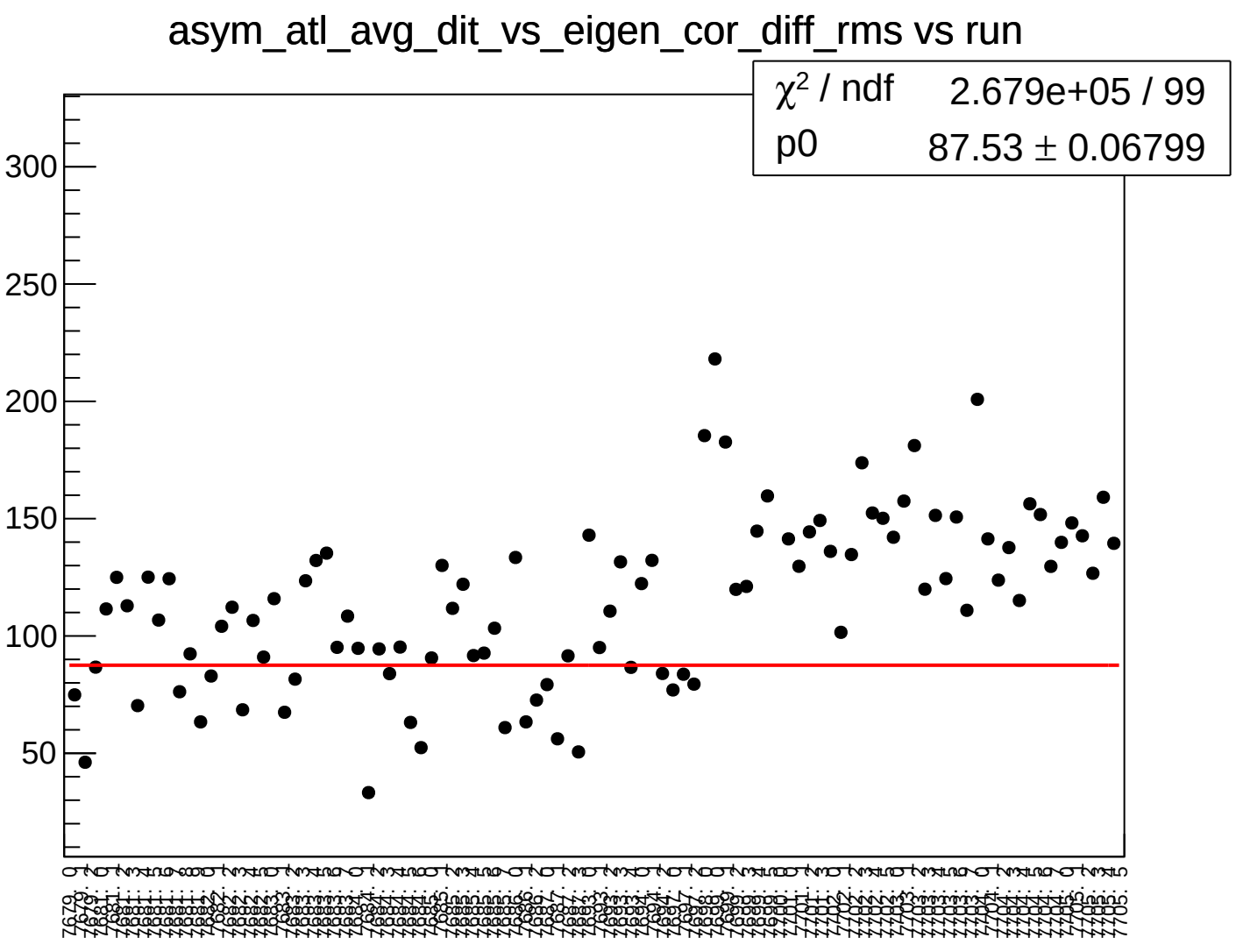

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 109 / 99
p0 −7.184e−13 ± 3.125e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 100
Mean 5.367
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.128
Std Dev 1.036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

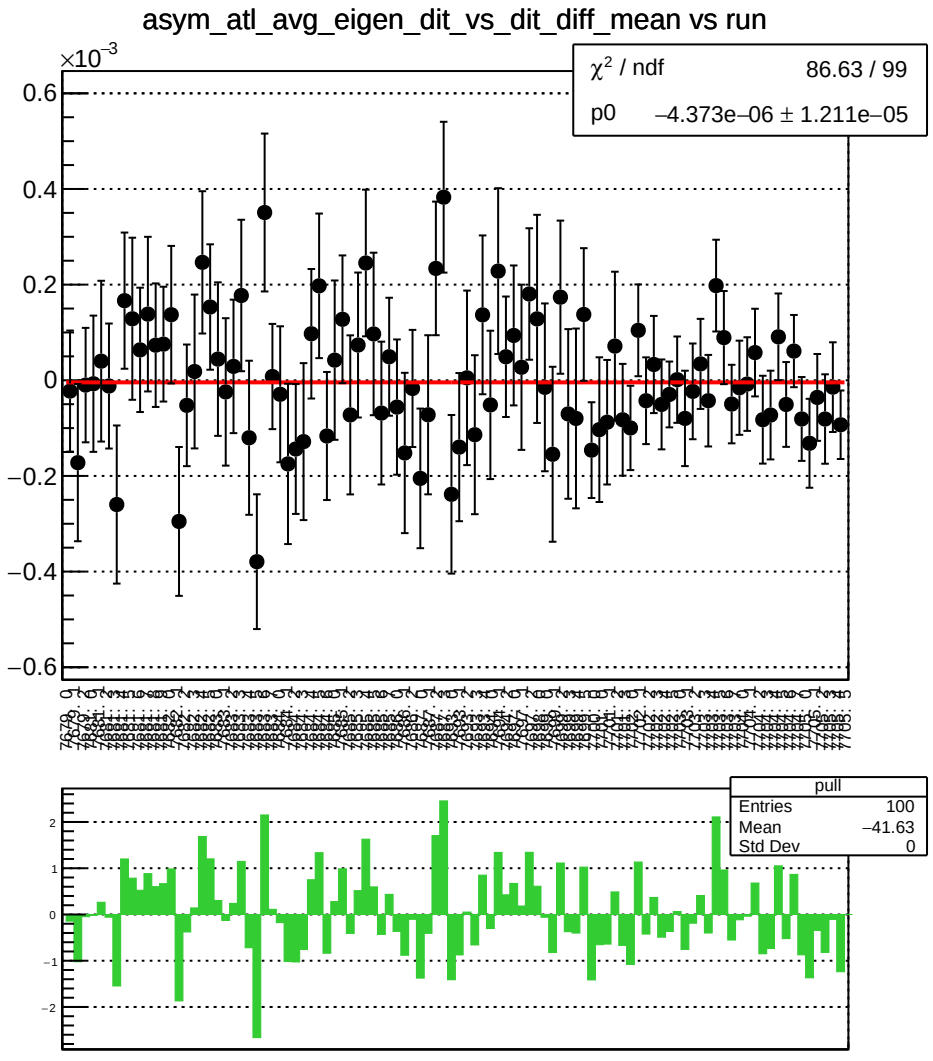

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.306e+06 / 99
p0 1.739e−10 ± 2.21e−13
1
0.8
0.6
0.4
0.2
0

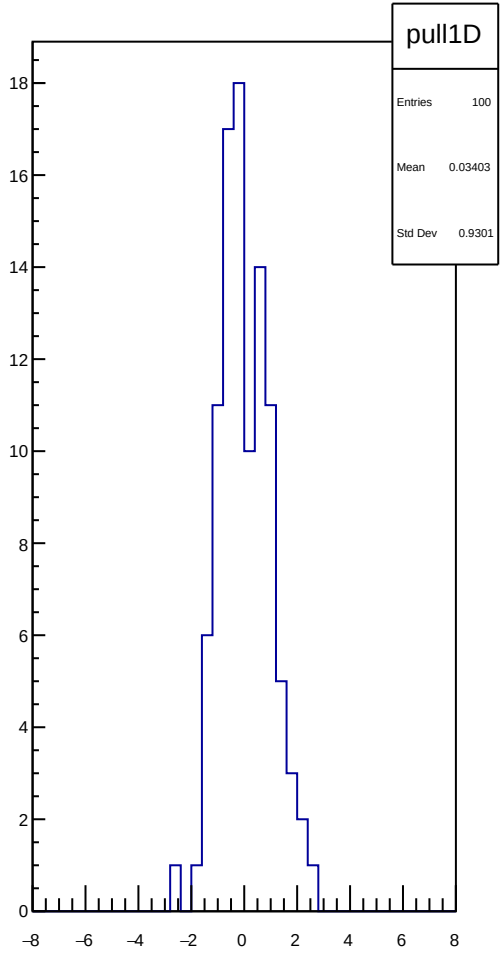

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 101.3 / 99
p0 −0.05449 ± 0.09615
pull
Entries 100
Mean 279.7
Std Dev 0
pull1D
Entries 100
Mean −0.01671
Std Dev 1.006

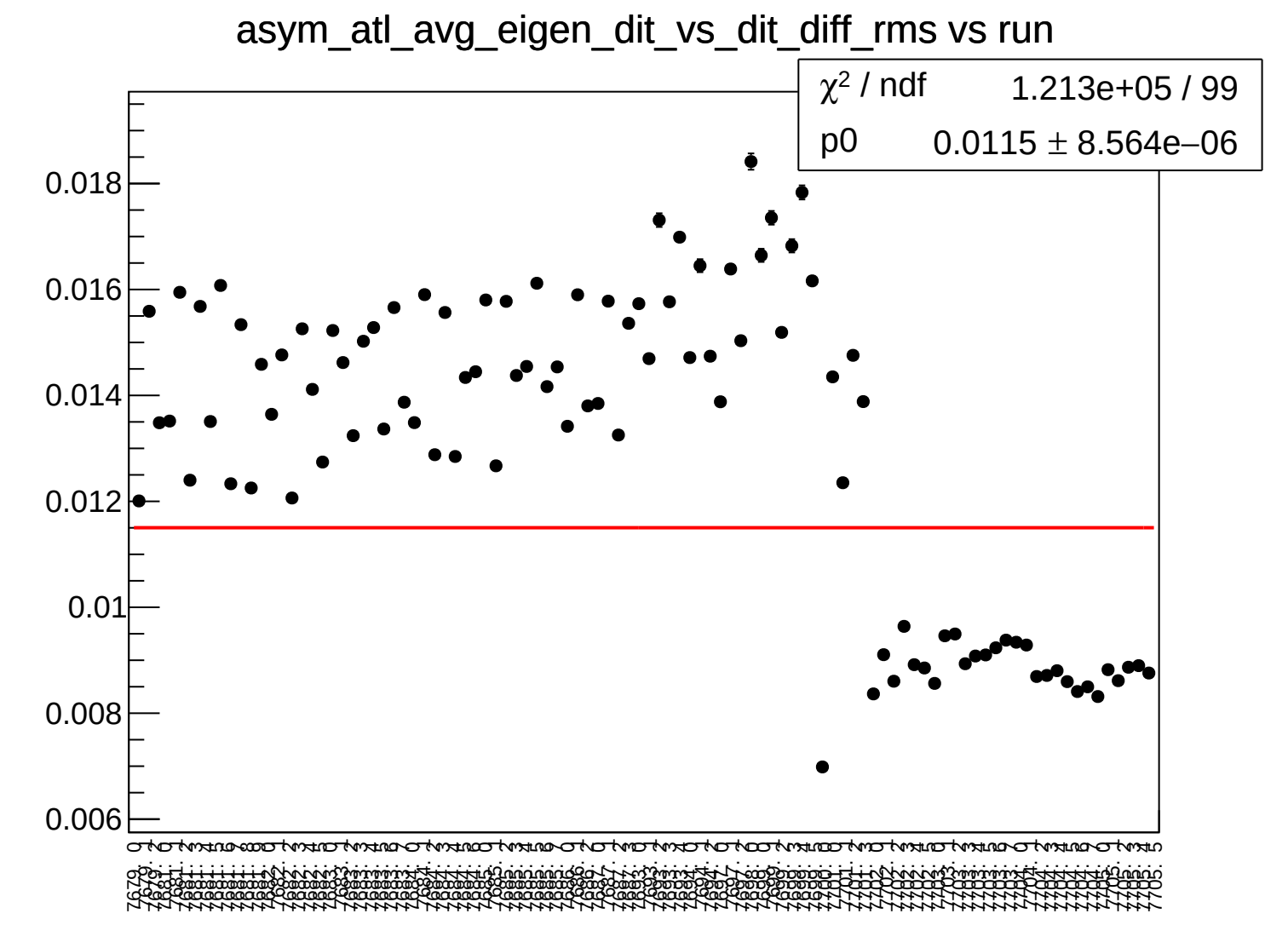

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.679e+05 / 99
p0 87.53 ± 0.06799
300
250
200
150
100
50

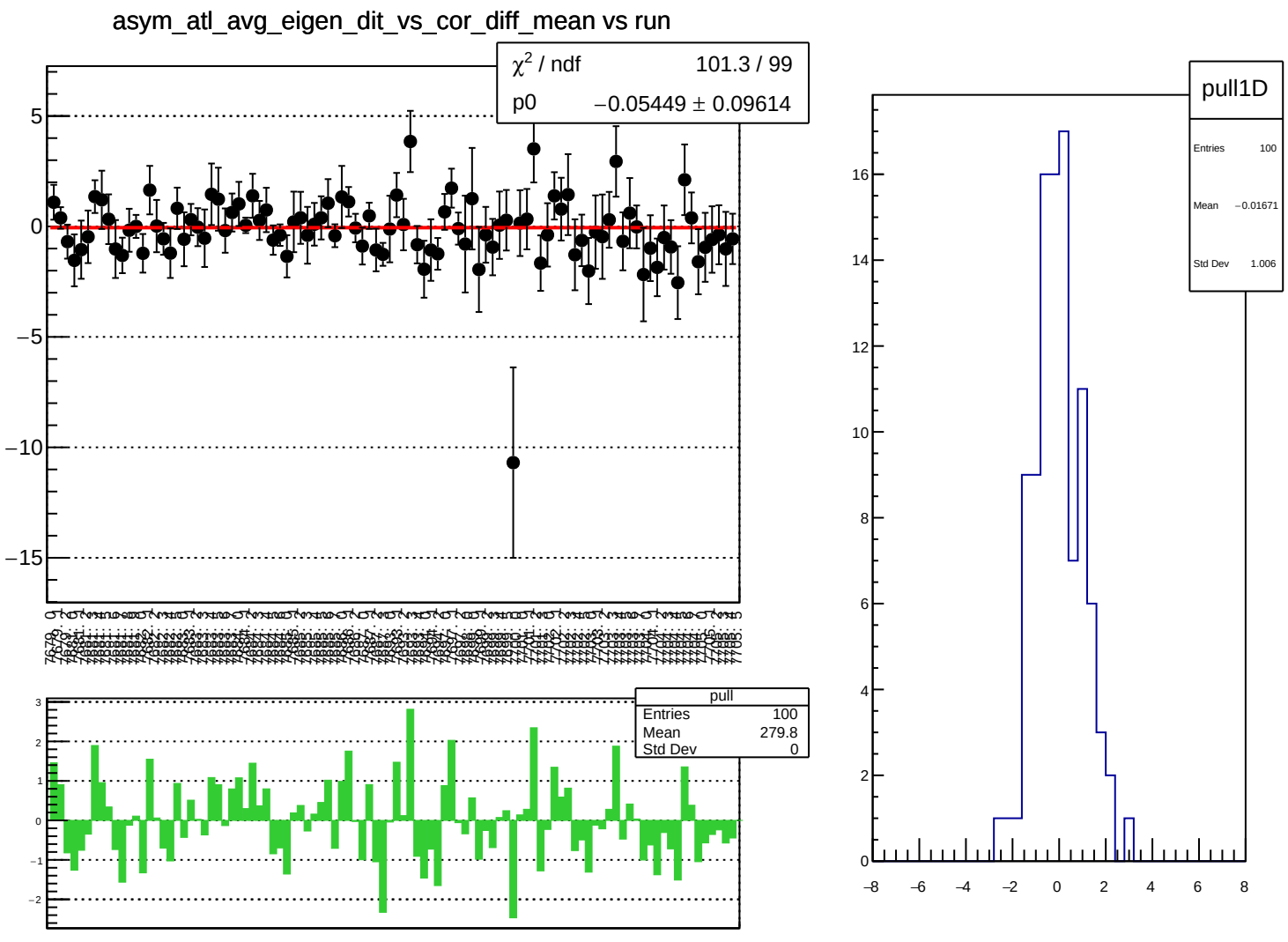

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.3 / 99
p0 −0.05449 ± 0.09615
pull
Entries 100
Mean 279.7
Std Dev 0
pull1D
Entries 100
Mean −0.01671
Std Dev 1.006

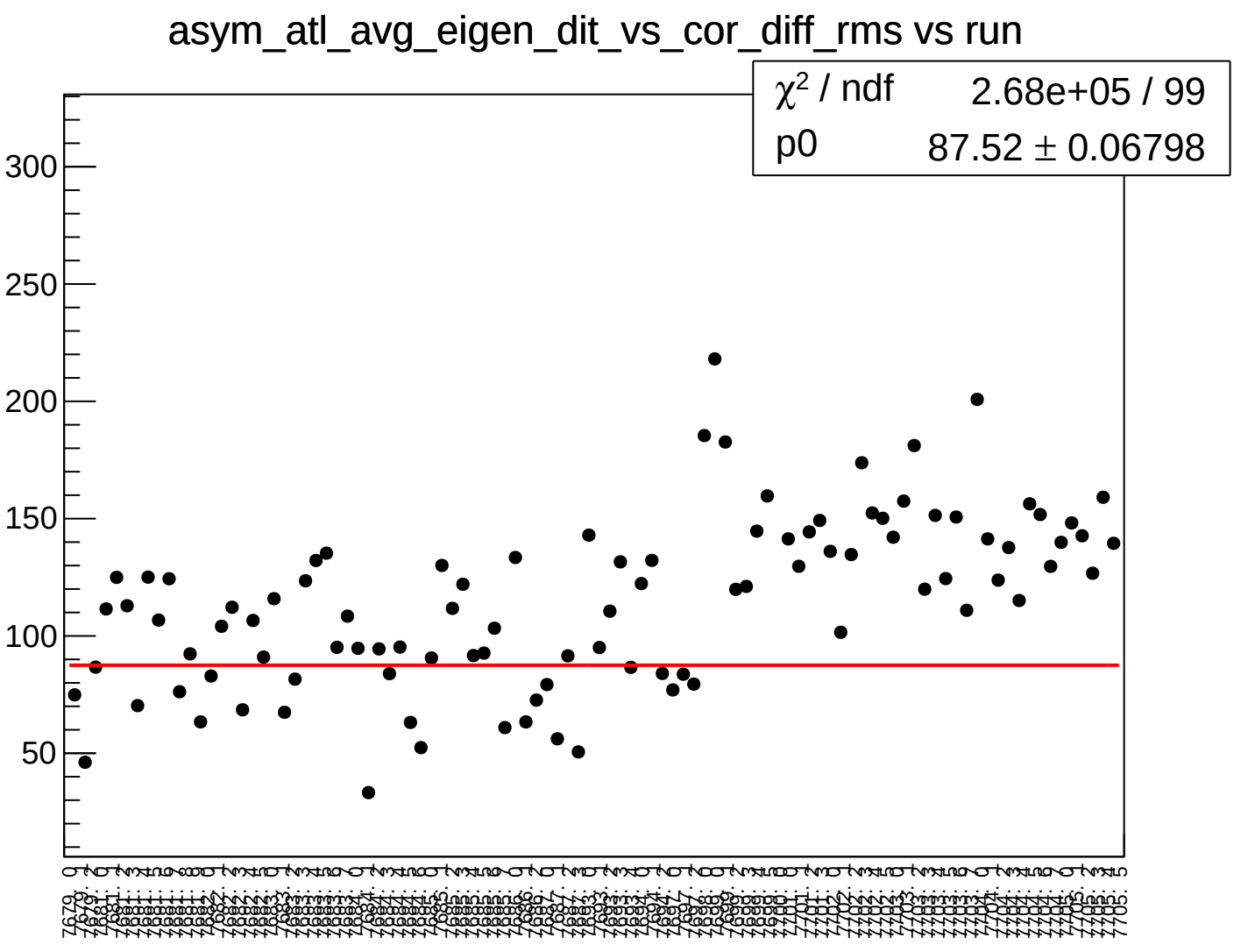

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.679e+05 / 99
p0 87.53 ± 0.06799
300
250
200
150
100
50

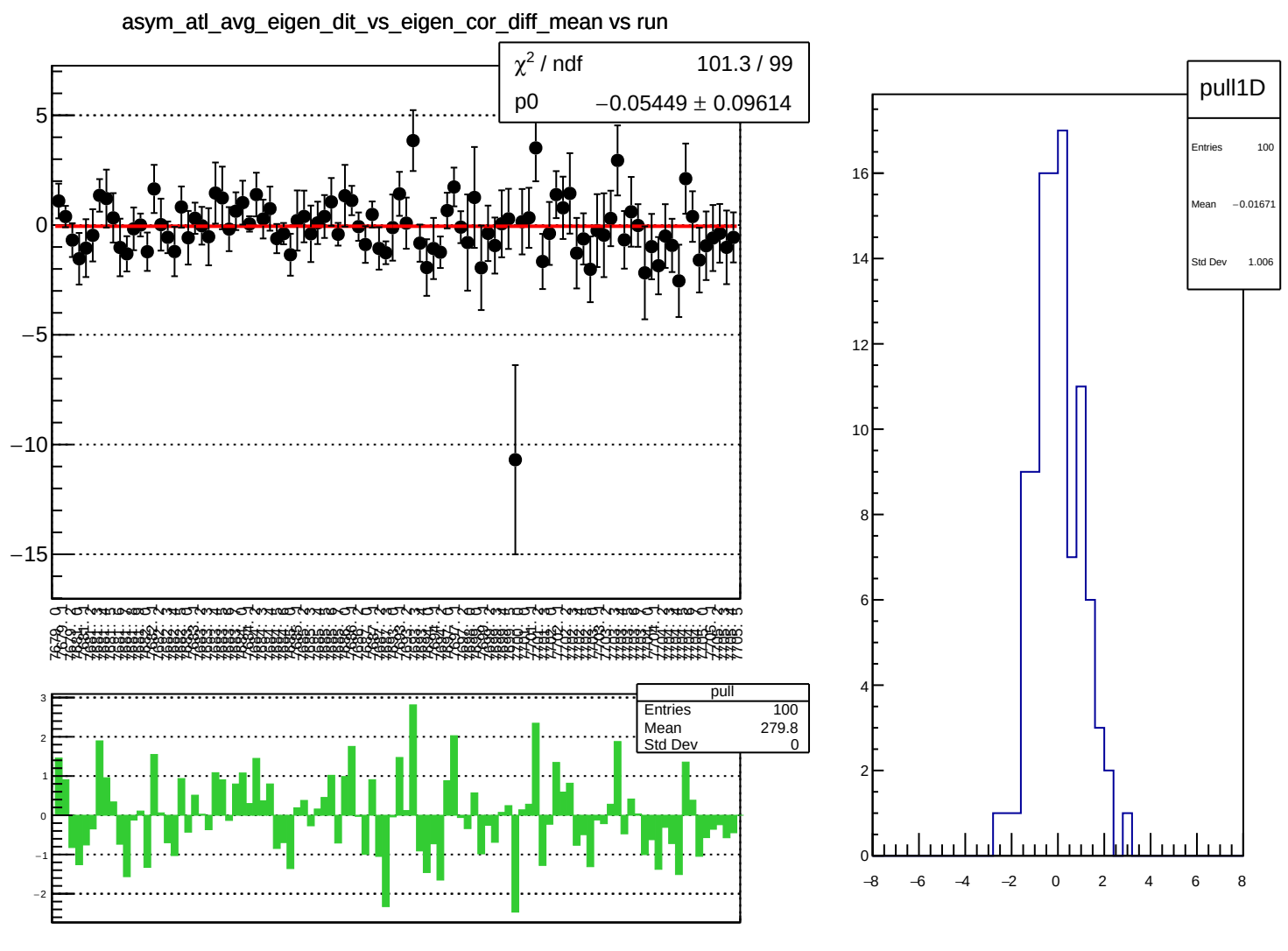

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.63 / 99
p0 −4.373e−06 ± 1.211e−05
pull
Entries 100
Mean −41.63
Std Dev 0

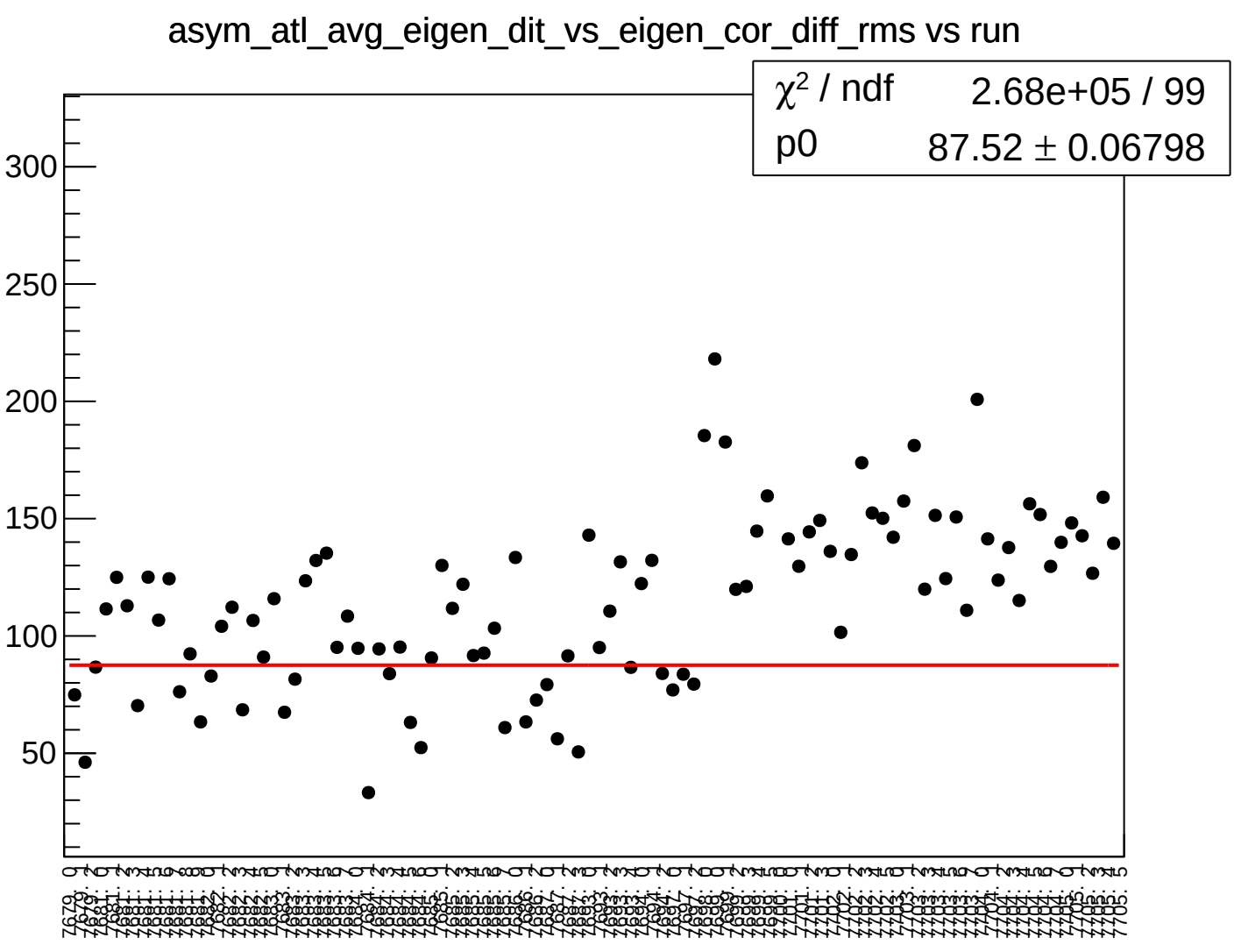

pull1D
Entries 100
Mean 0.03403
Std Dev 0.9301

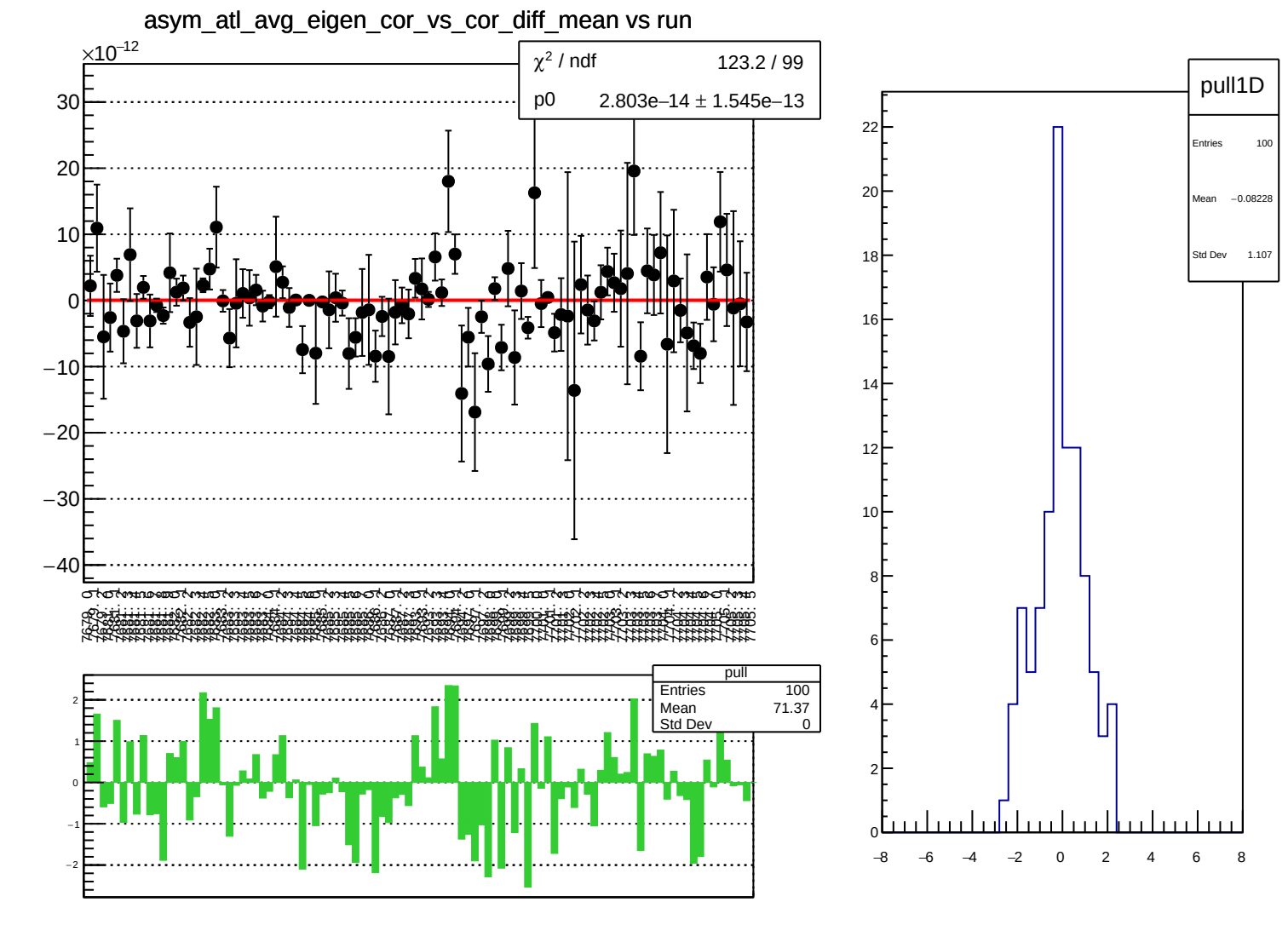

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.213e+05 / 99
p0 0.0115 ± 8.564e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

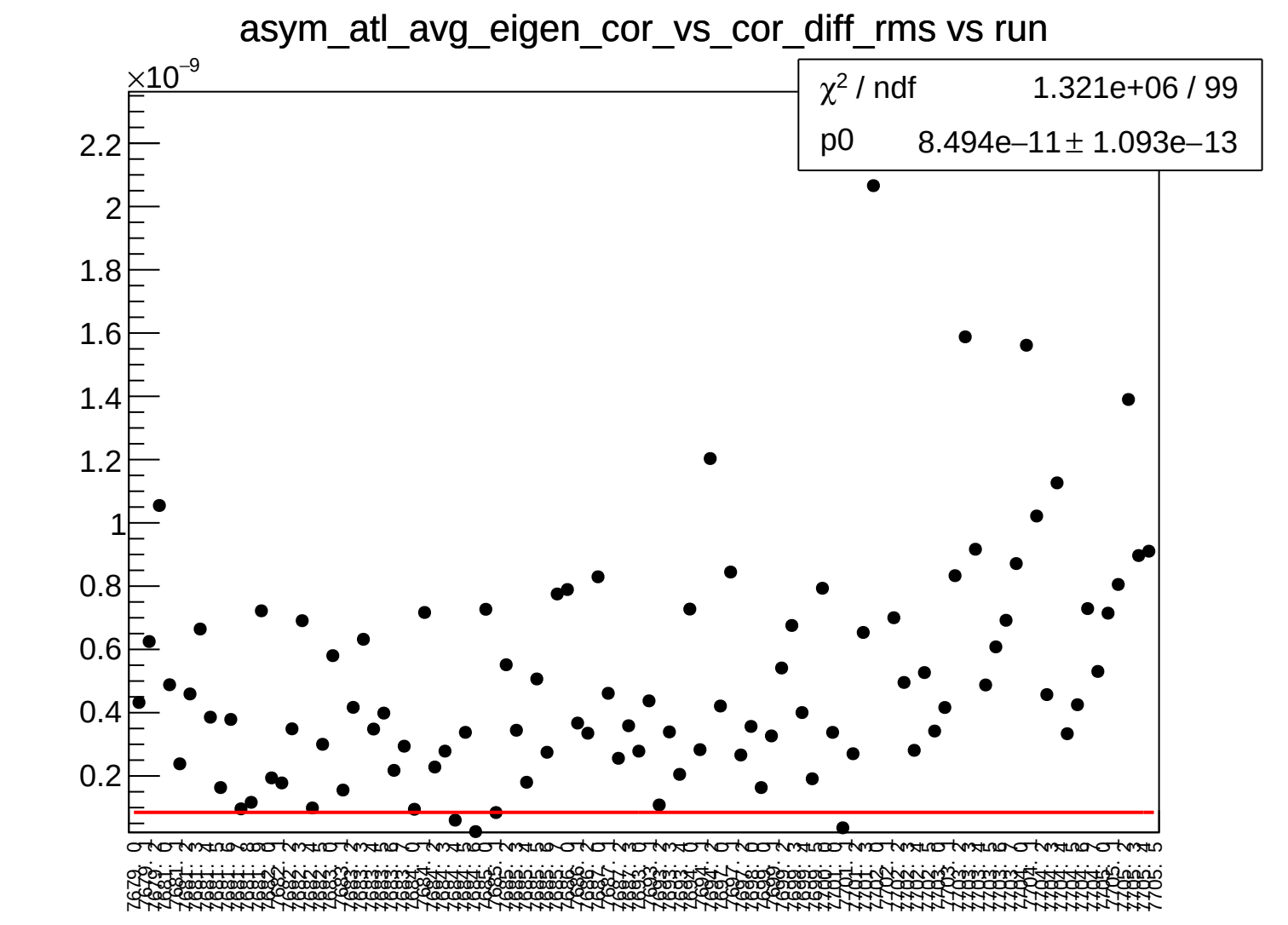

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.3 / 99
p0 −0.05449 ± 0.09614
pull
Entries 100
Mean 279.8
Std Dev 0
pull1D
Entries 100
Mean −0.01671
Std Dev 1.006

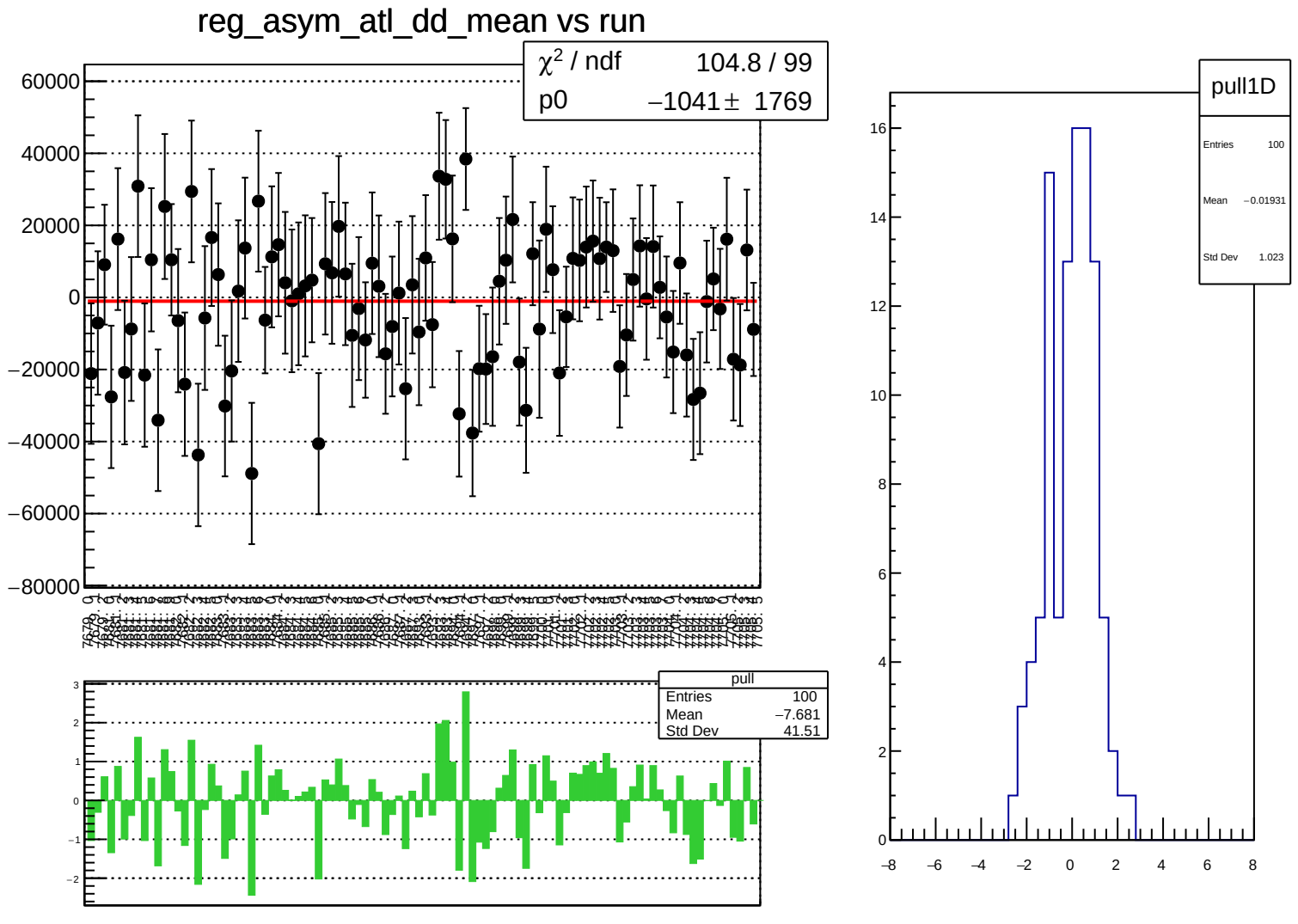

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.68e+05 / 99
p0 87.52 ± 0.06798
300
250
200
150
100
50

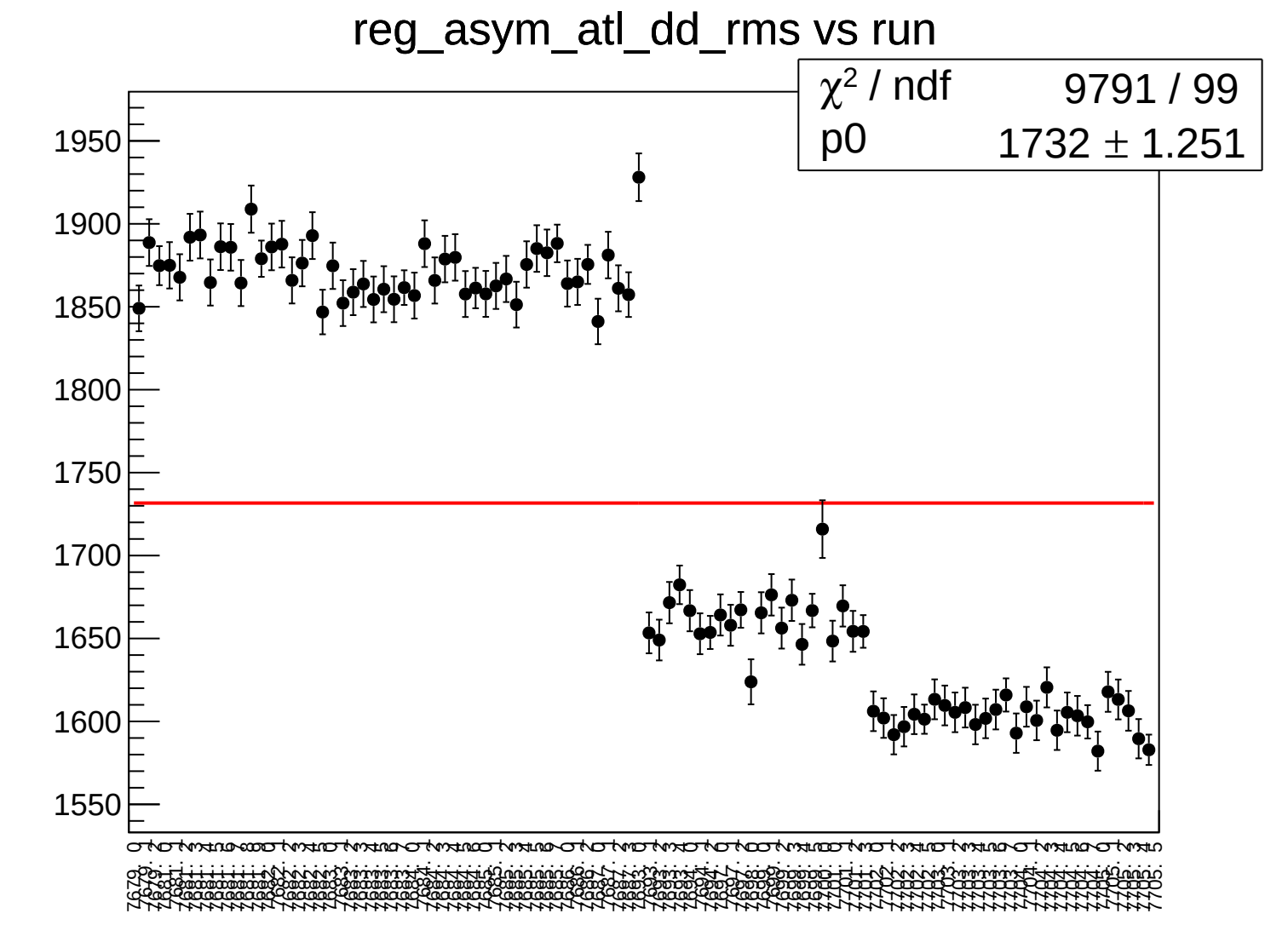

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.3 / 99
p0 −0.05449 ± 0.09614
5
0
−5
−10
−15
pull
Entries 100
Mean 279.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.01671
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

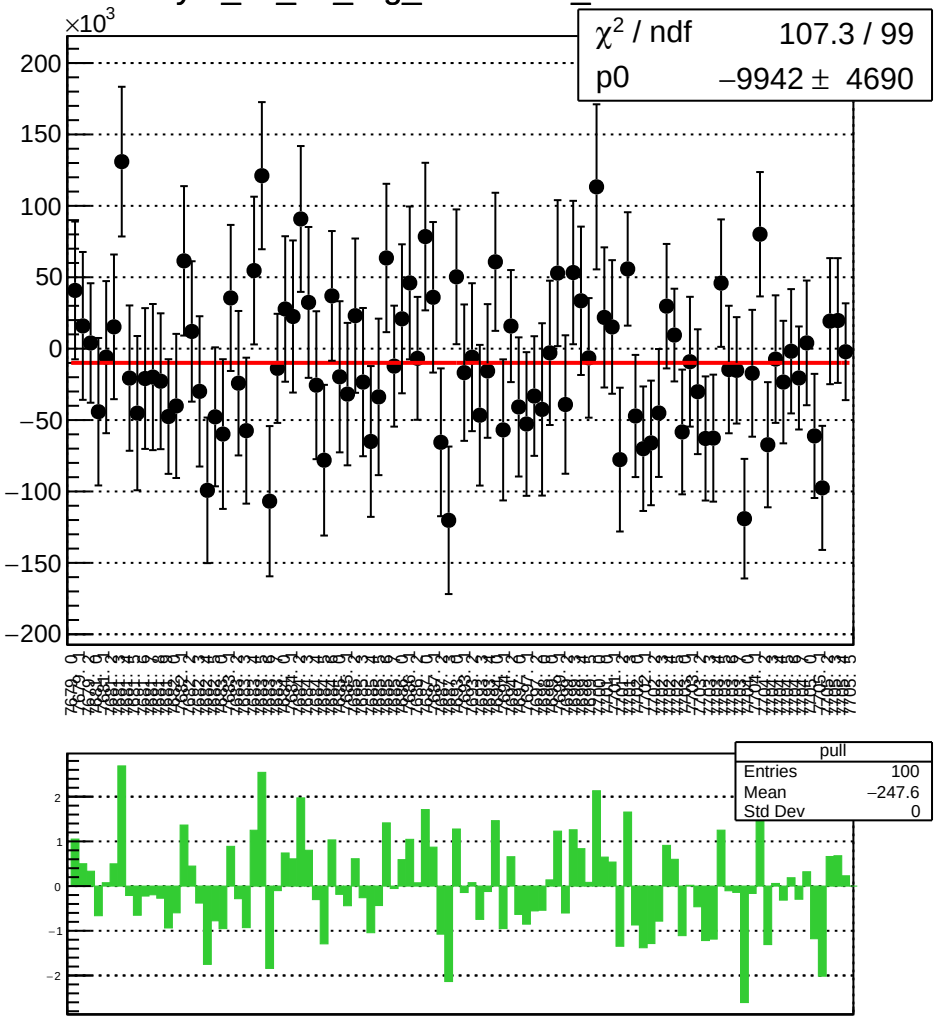

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.68e+05 / 99
p0 87.52 ± 0.06798
300
250
200
150
100
50

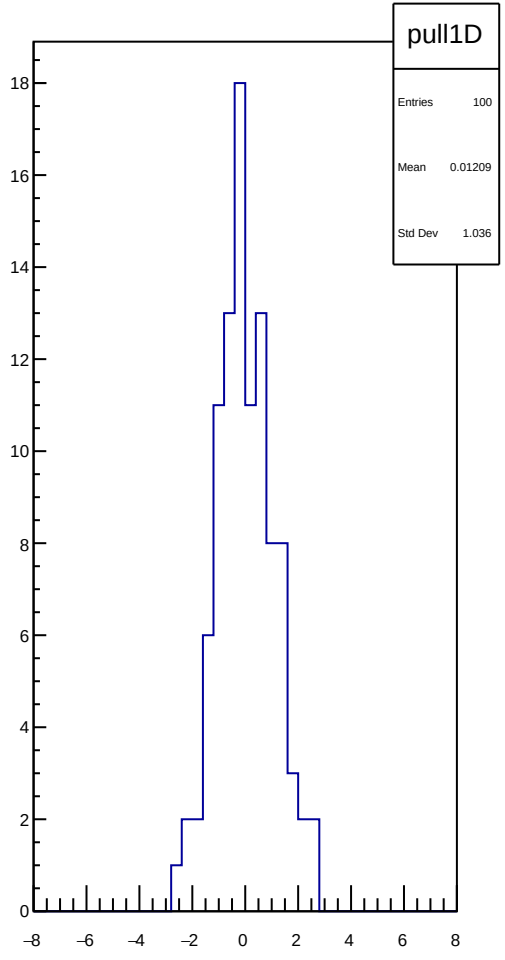

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 123.2 / 99
p0 2.803e−14 ± 1.545e−13
pull
Entries 100
Mean 71.37
Std Dev 0
pull1D
Entries 100
Mean −0.08228
Std Dev 1.107

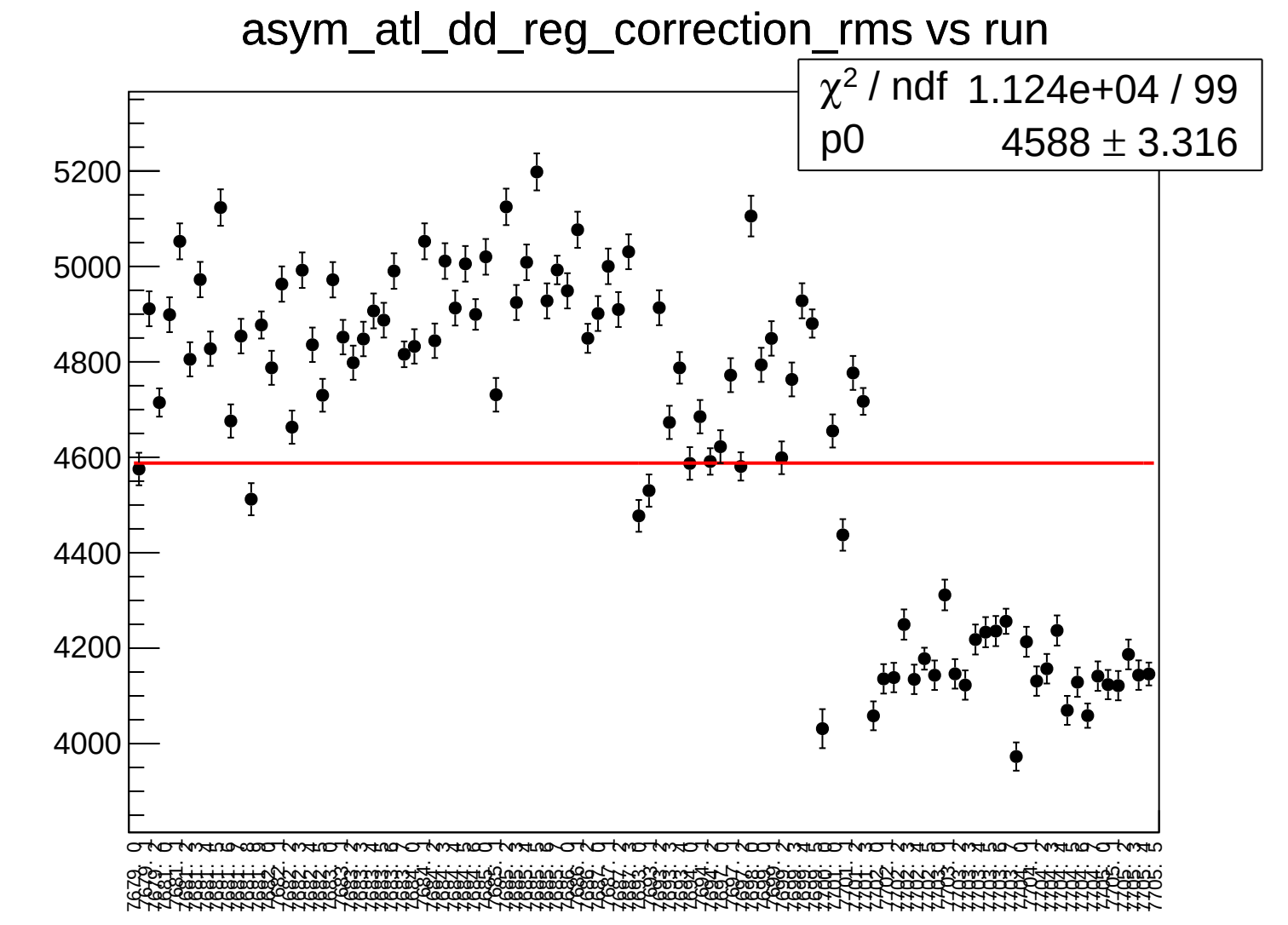

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.321e+06 / 99
p0 8.494e−11 ± 1.093e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

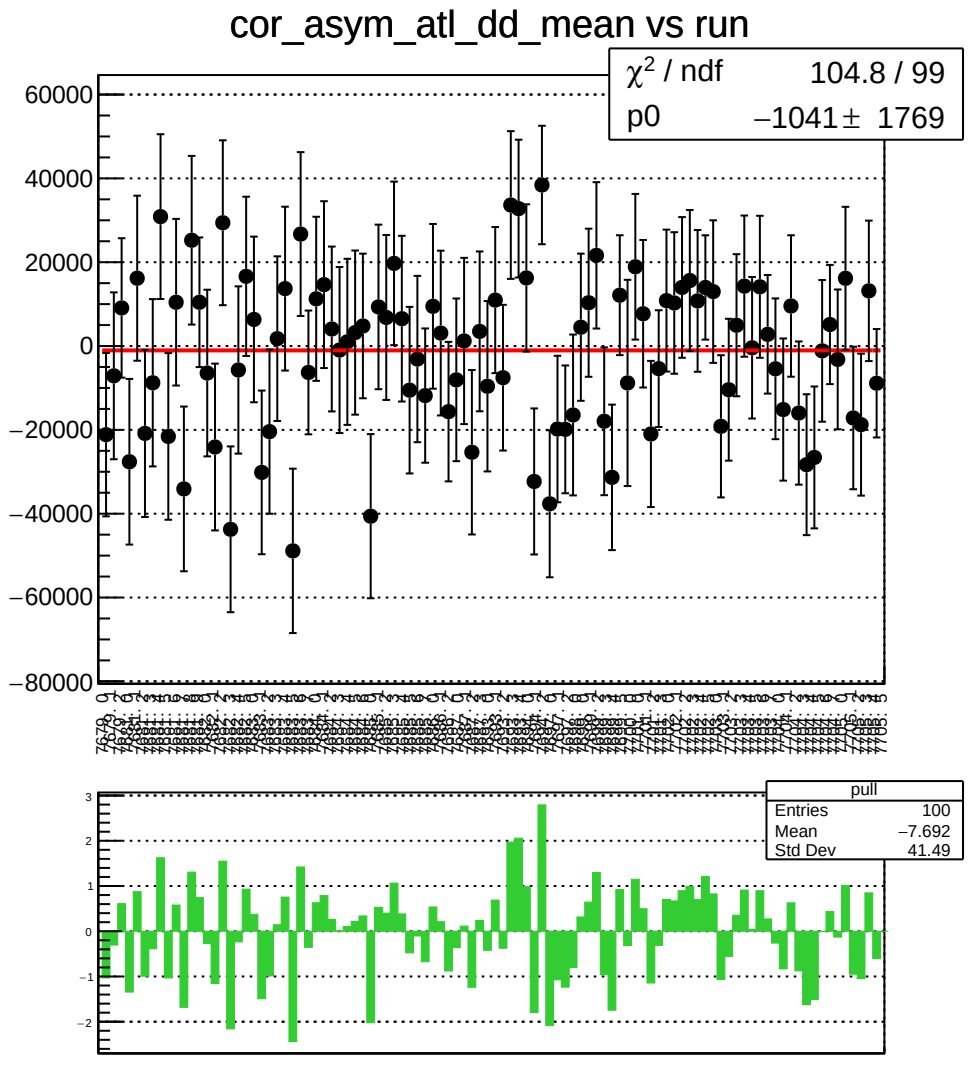

reg_asym_atl_dd_mean vs run
χ² / ndf 104.8 / 99
p0 −1041 ± 1769
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −7.681
Std Dev 41.51
3
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.01931
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

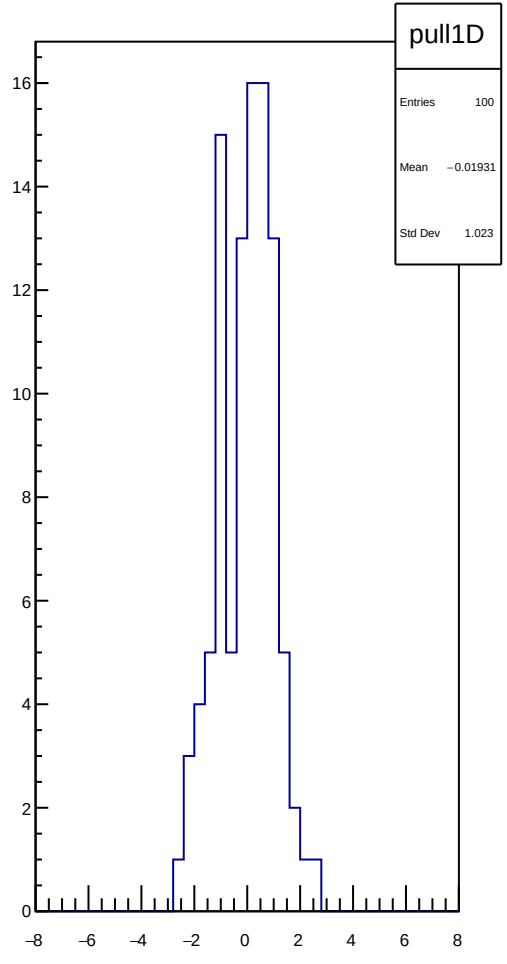

reg_asym_atl_dd_rms vs run
χ^2 / ndf 9791 / 99
p0 1732 ± 1.251
1950
1900
1850
1800
1750
1700
1650
1600
1550


asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 107.3 / 99
p0 −9942 ± 4690
pull
Entries 100
Mean −247.6
Std Dev 0


pull1D
Entries 100
Mean 0.01209
Std Dev 1.036


asym_atl_dd_reg_correction_rms vs run
χ² / ndf 1.124e+04 / 99
p0 4588 ± 3.316
5200
5000
4800
4600
4400
4200
4000


cor_asym_atl_dd_mean vs run
χ² / ndf 104.8 / 99
p0 −1041 ± 1769
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −7.692
Std Dev 41.49
3
2
1
0
−1
−2


pull1D
Entries 100
Mean −0.01931
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
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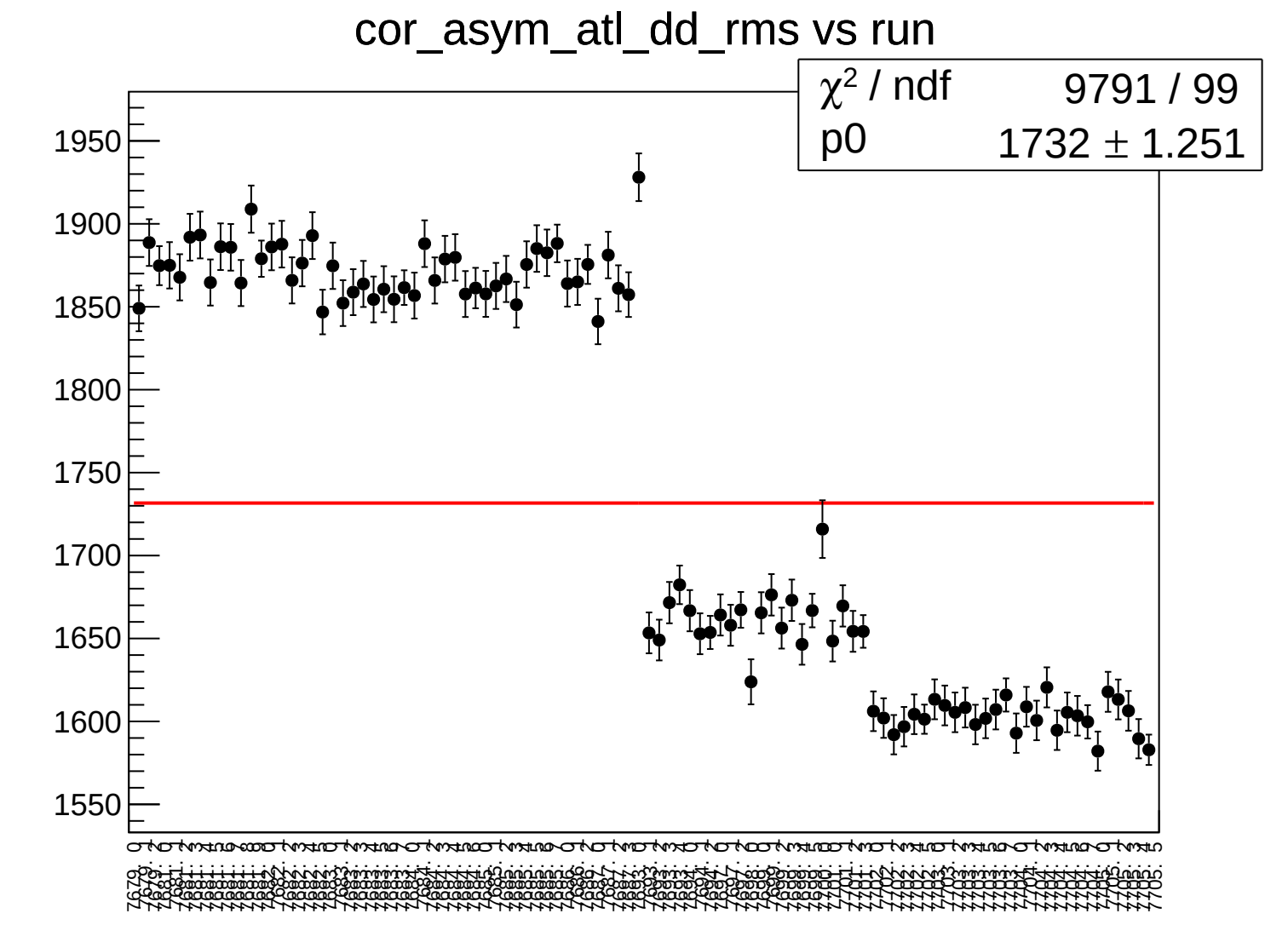
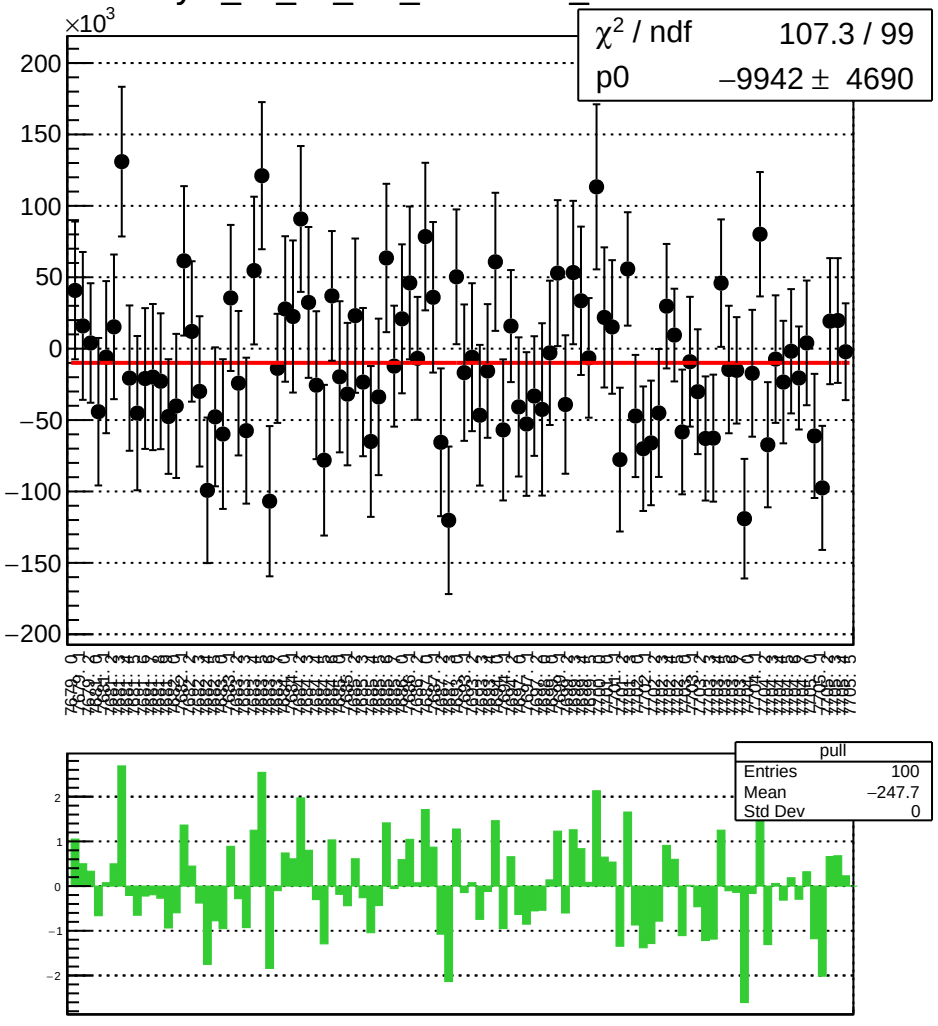
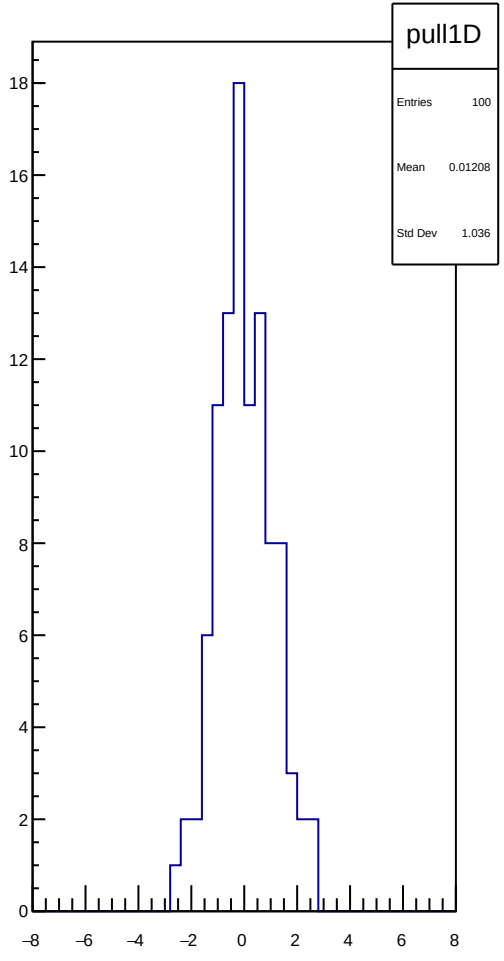
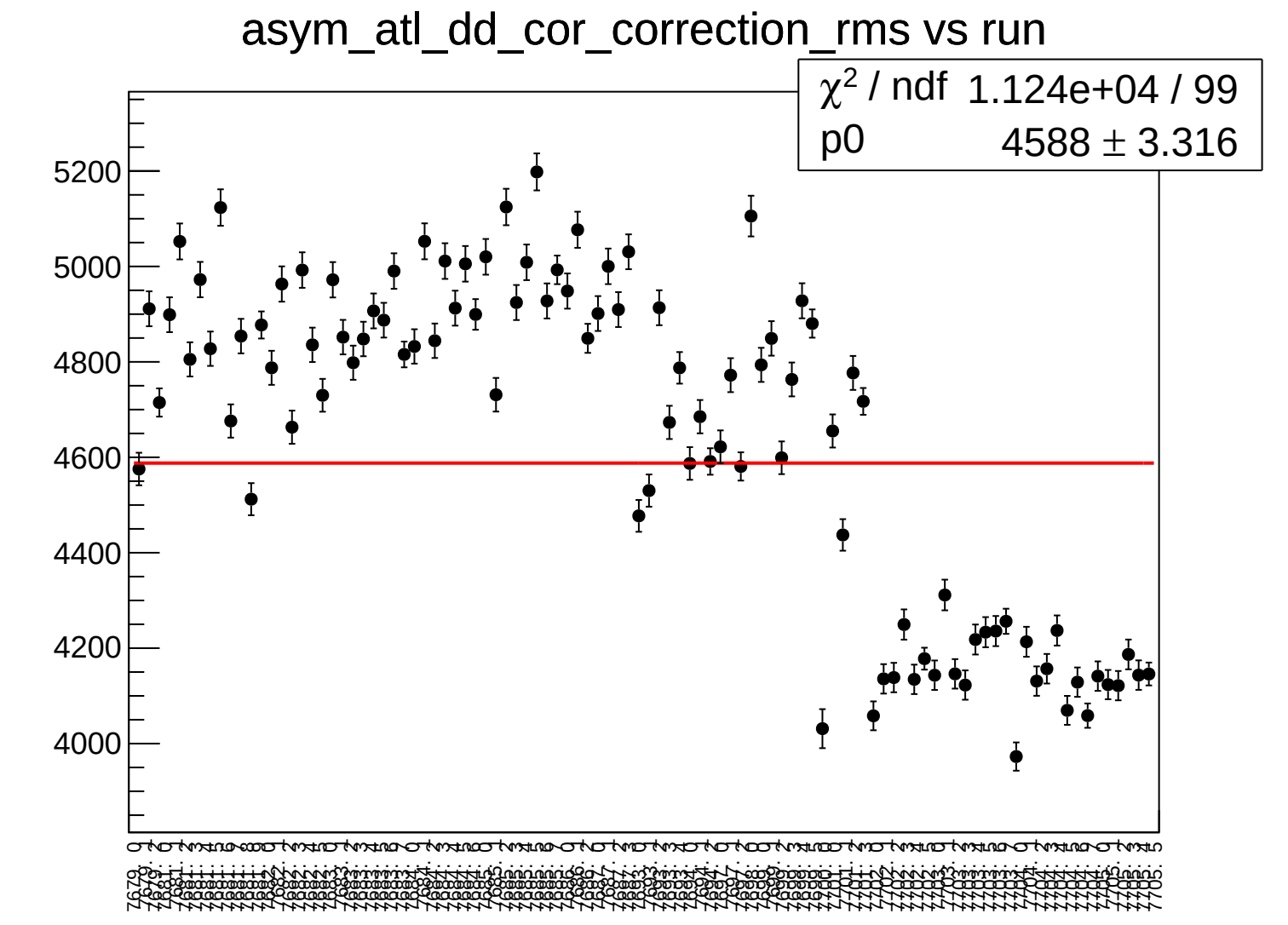
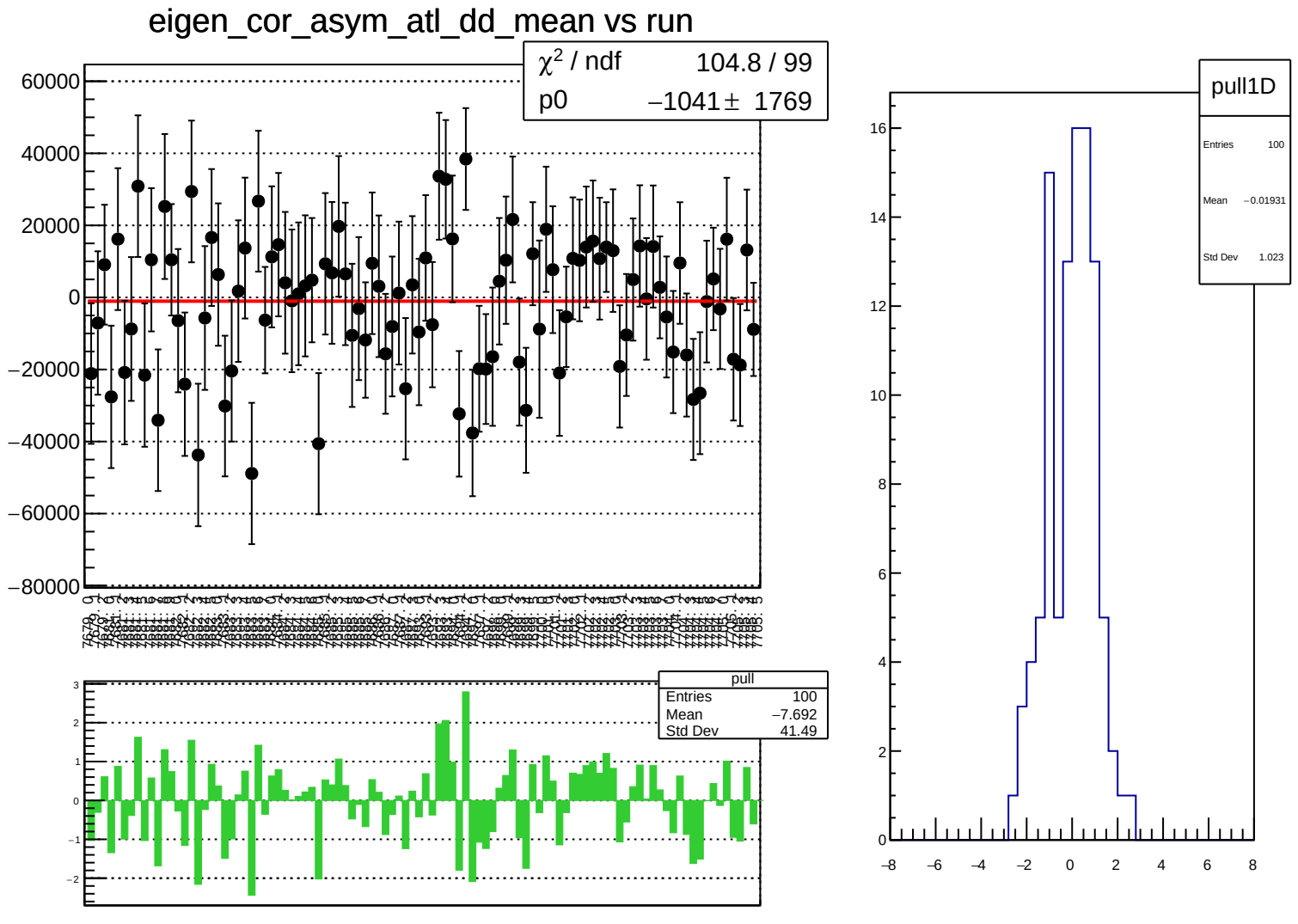
2
4
6
8


cor_asym_atl_dd_rms vs run
χ² / ndf 9791 / 99
p0 1732 ± 1.251
1950
1900
1850
1800
1750
1700
1650
1600
1550


asym_atl_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 107.3 / 99
p0 −9942 ± 4690
pull
Entries 100
Mean −247.7
Std Dev 0


pull1D
Entries 100
Mean 0.01208
Std Dev 1.036


asym_atl_dd_cor_correction_rms vs run
χ² / ndf 1.124e+04 / 99
p0 4588 ± 3.316
5200
5000
4800
4600
4400
4200
4000


eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 104.8 / 99
p0 −1041 ± 1769
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −7.692
Std Dev 41.49
3
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.01931
Std Dev 1.023
16
14
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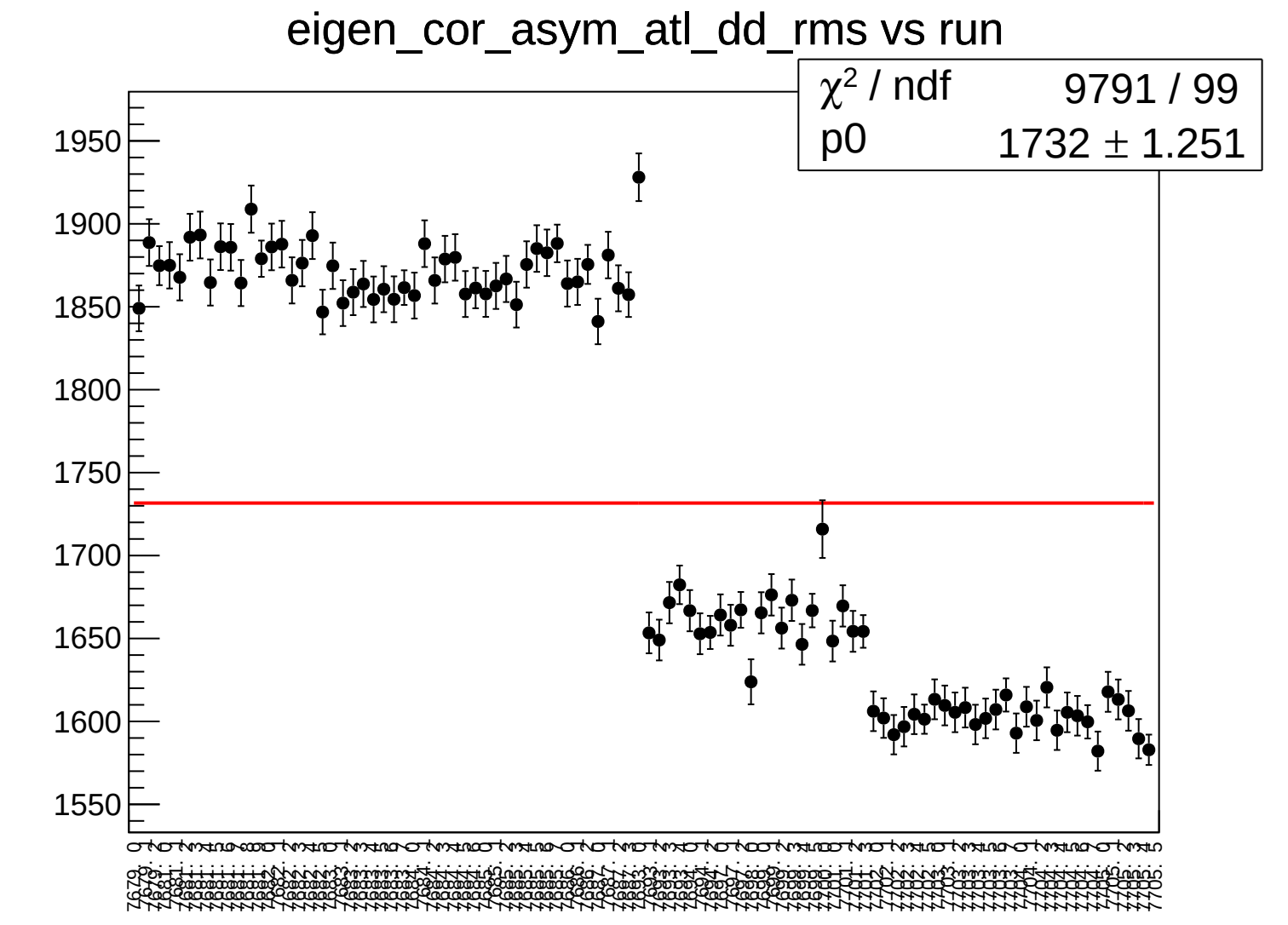
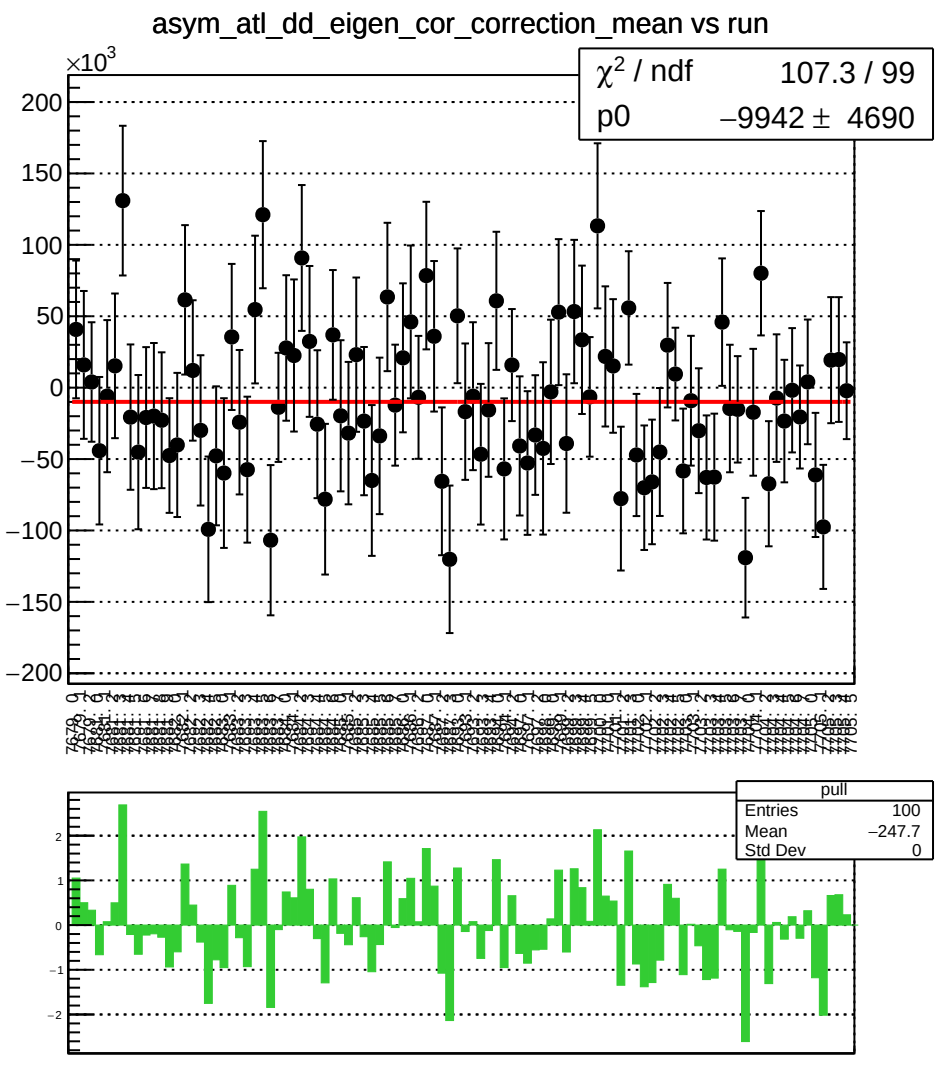
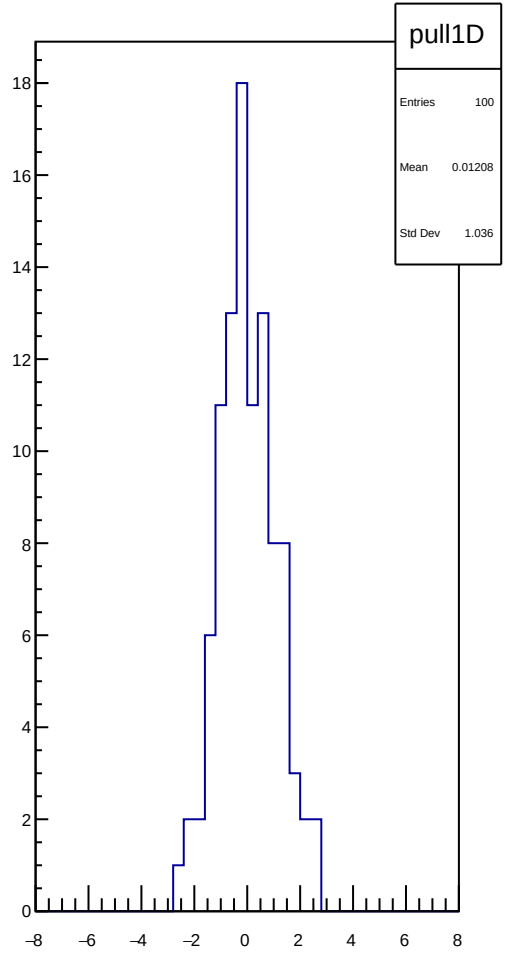
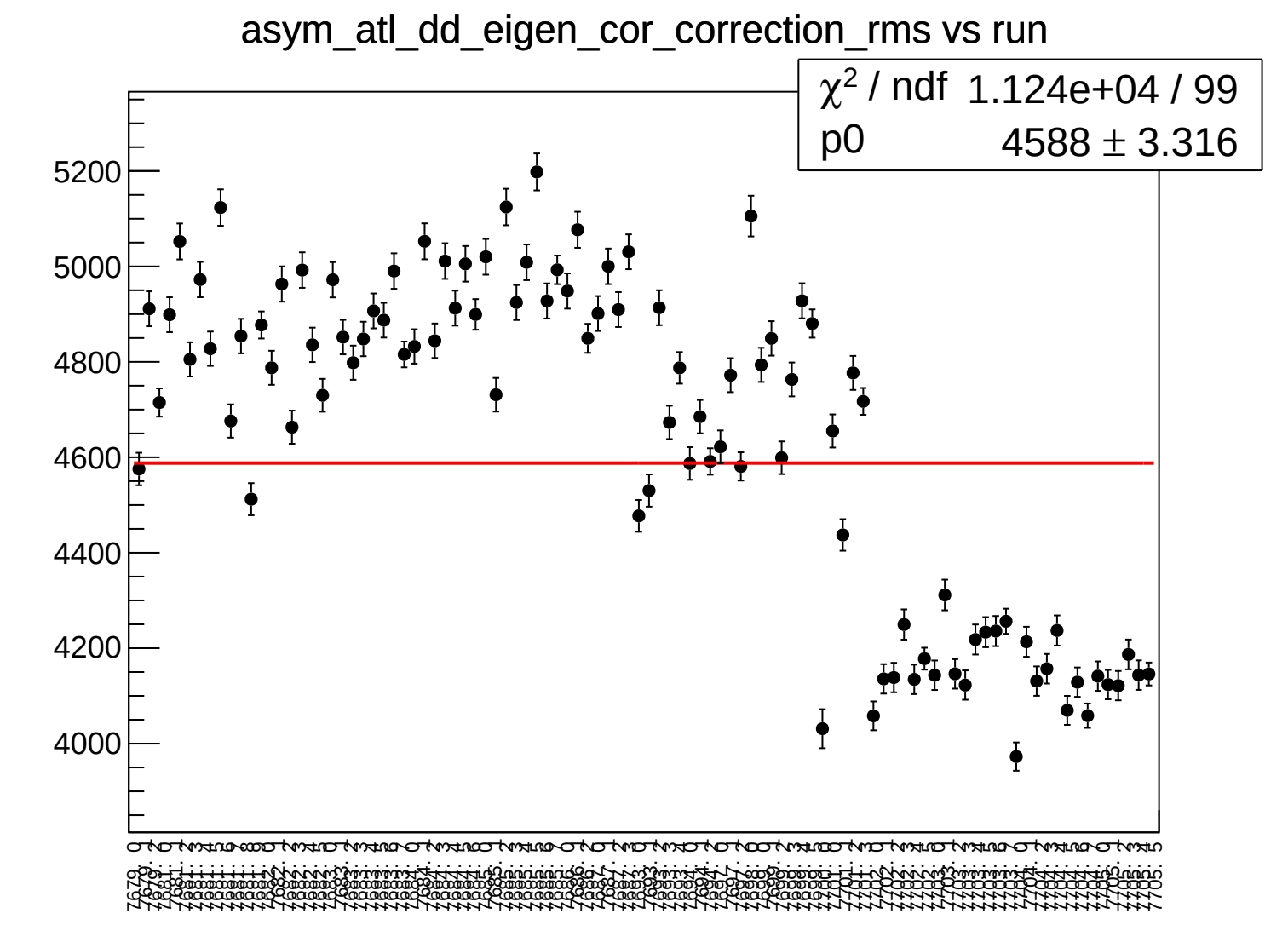
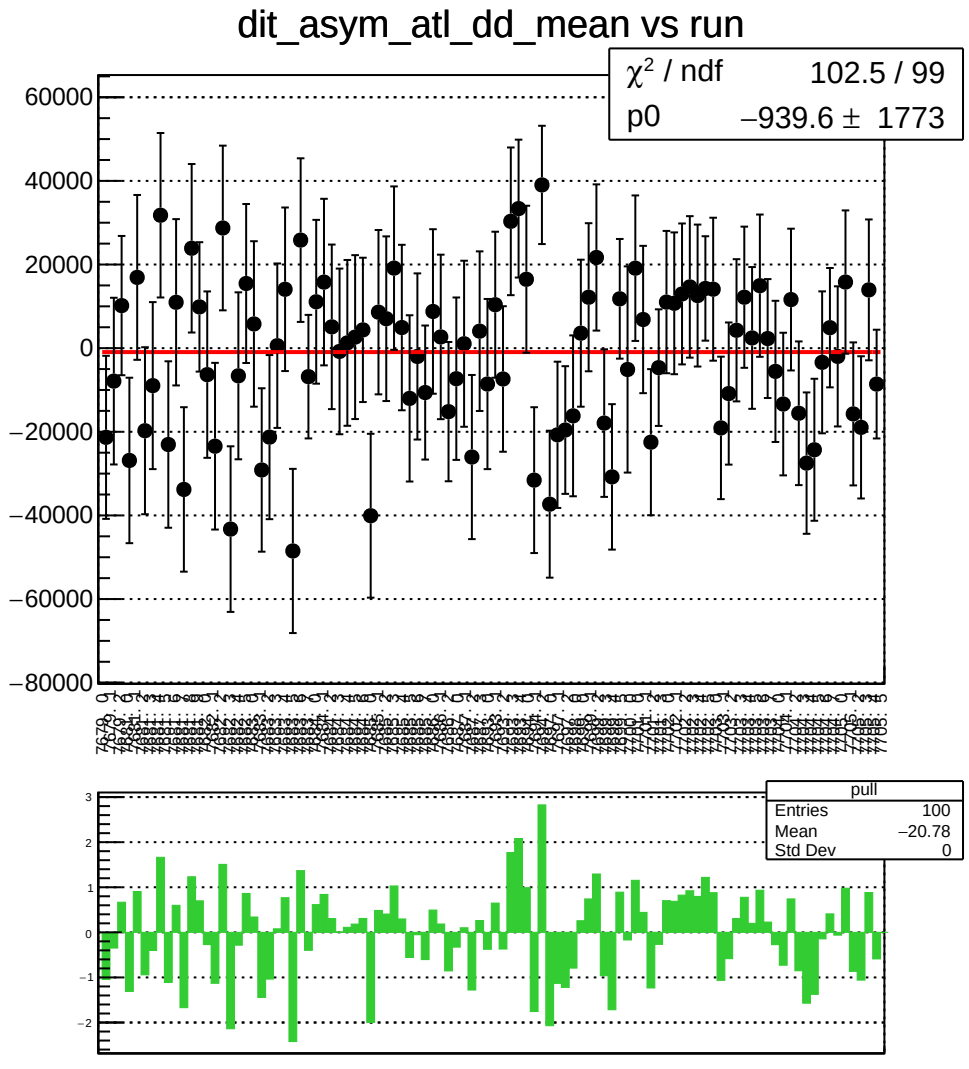
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

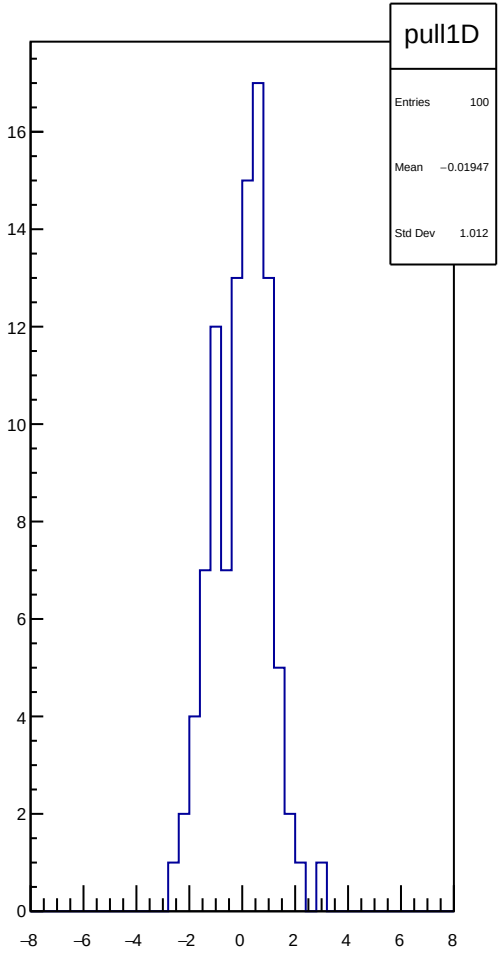

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 9791 / 99
p0 1732 ± 1.251
1950
1900
1850
1800
1750
1700
1650
1600
1550


asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 107.3 / 99
p0 −9942 ± 4690
pull
Entries 100
Mean −247.7
Std Dev 0


pull1D
Entries 100
Mean 0.01208
Std Dev 1.036


asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.124e+04 / 99
p0 4588 ± 3.316
5200
5000
4800
4600
4400
4200
4000


dit_asym_atl_dd_mean vs run
χ² / ndf 102.5 / 99
p0 −939.6 ± 1773
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −20.78
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 100
Mean −0.01947
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
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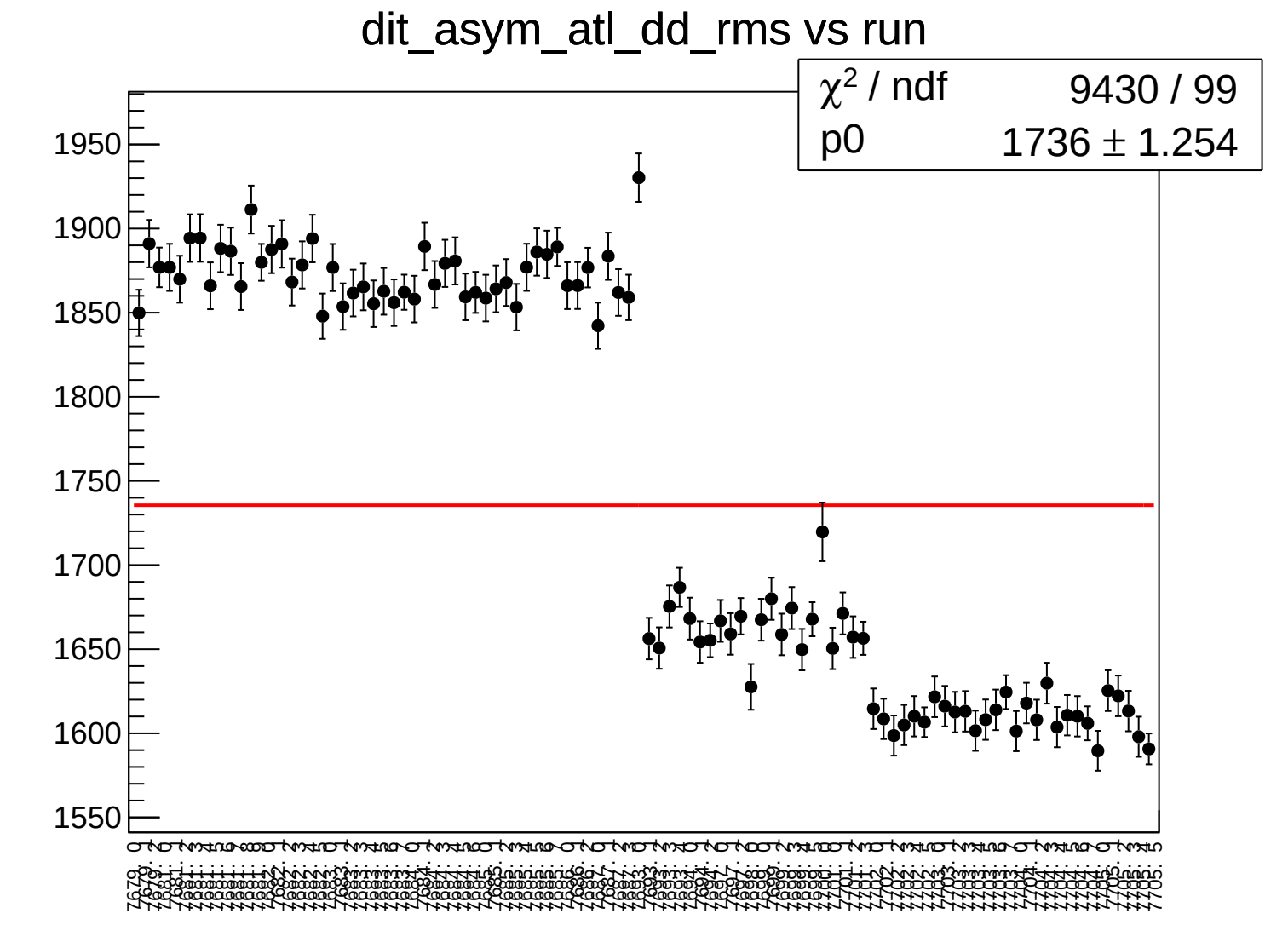
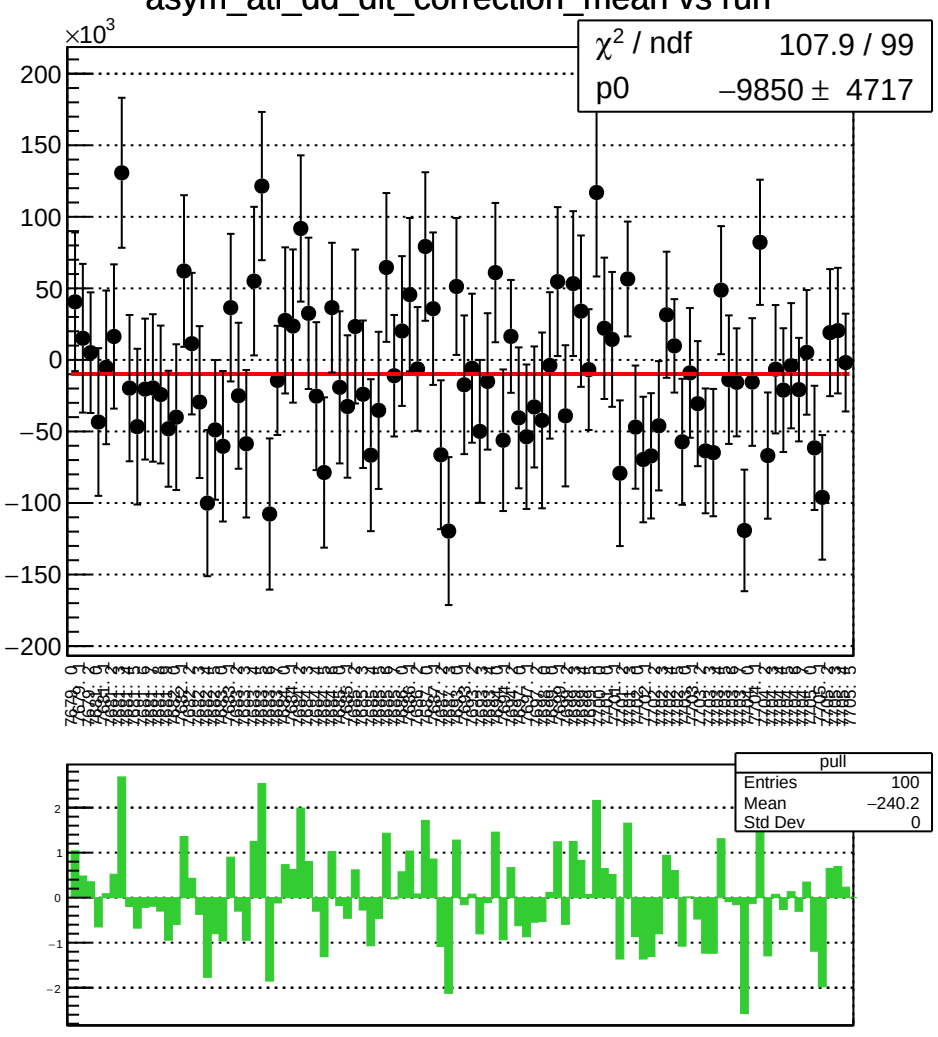
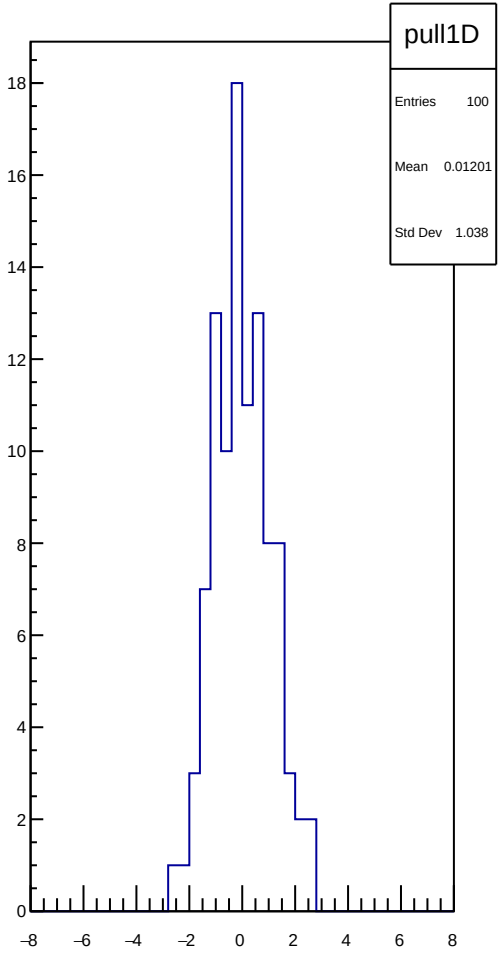
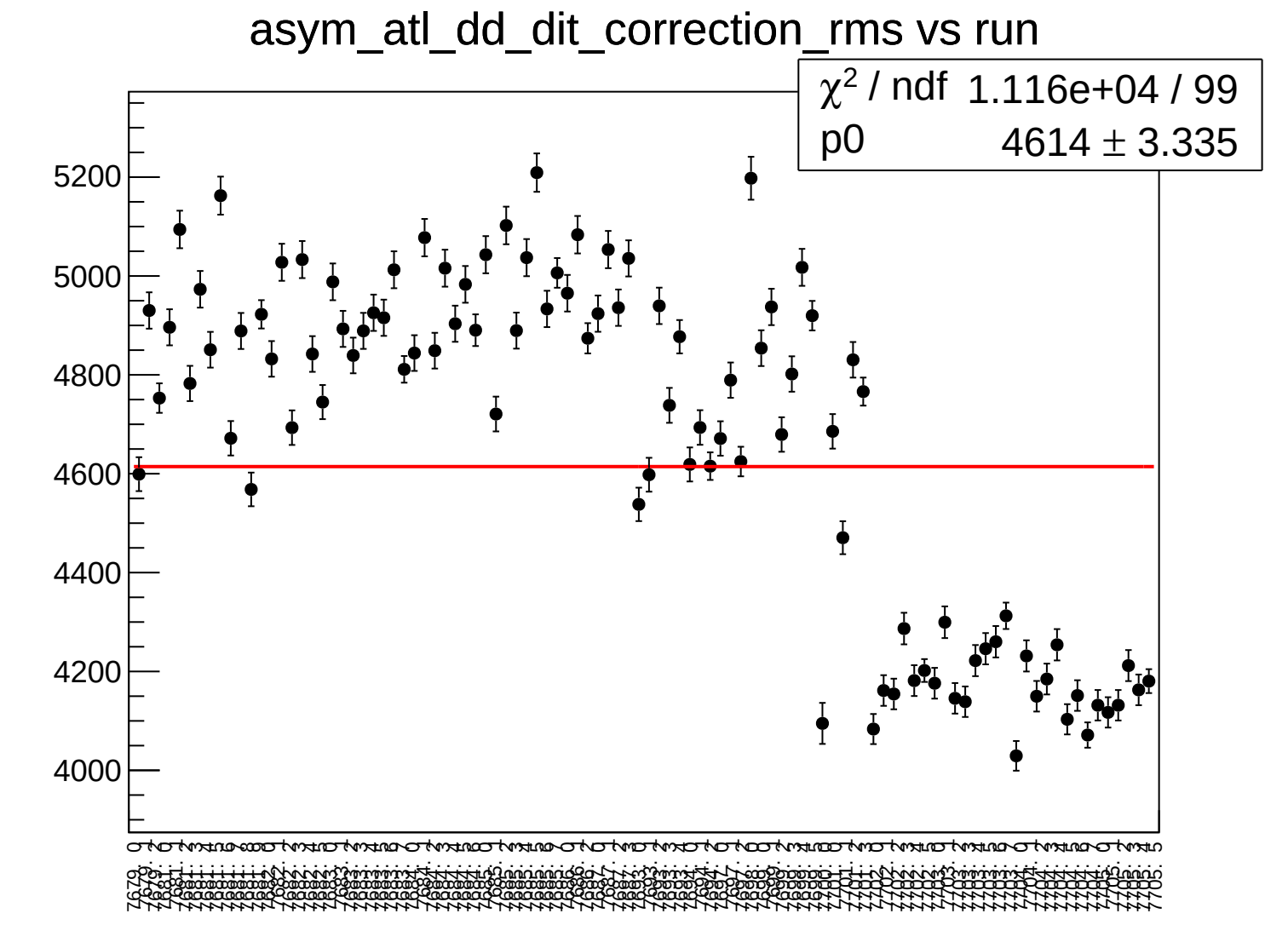
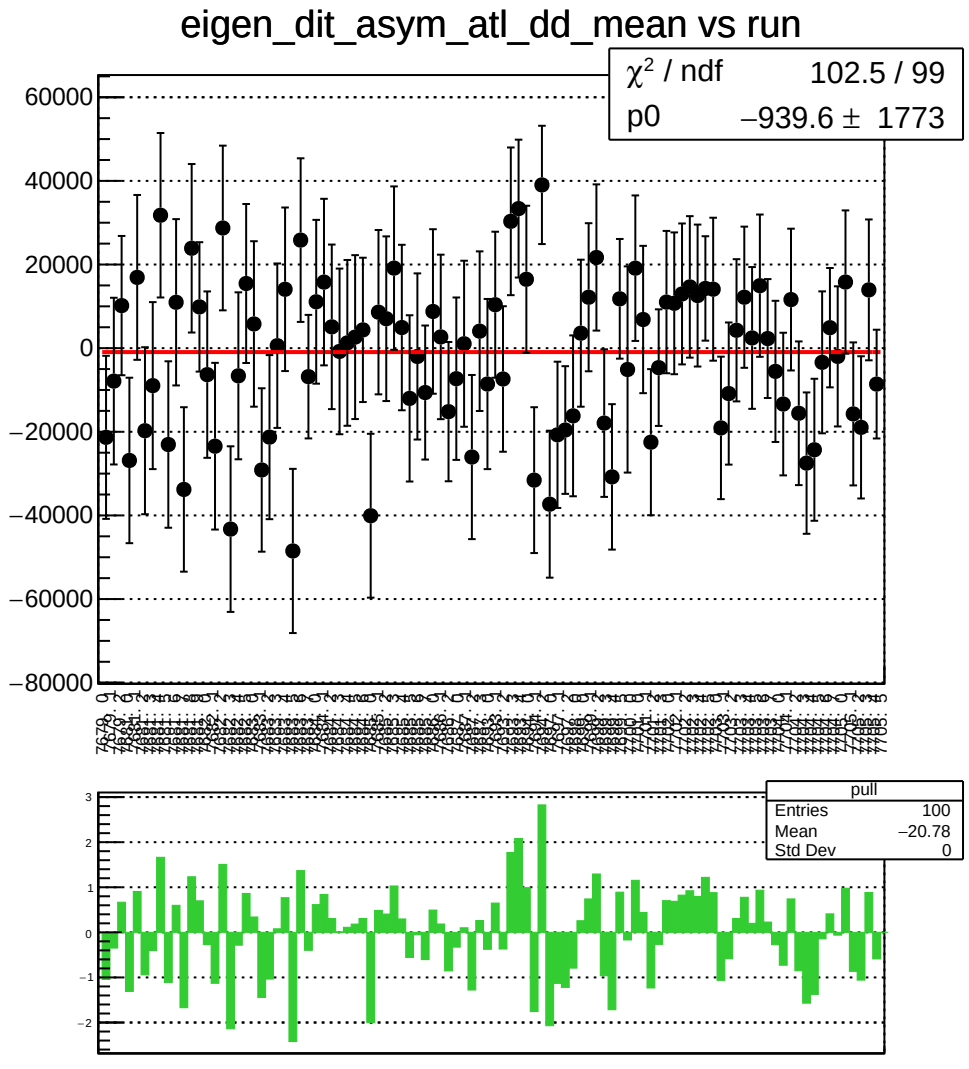
0
2
4
6
8

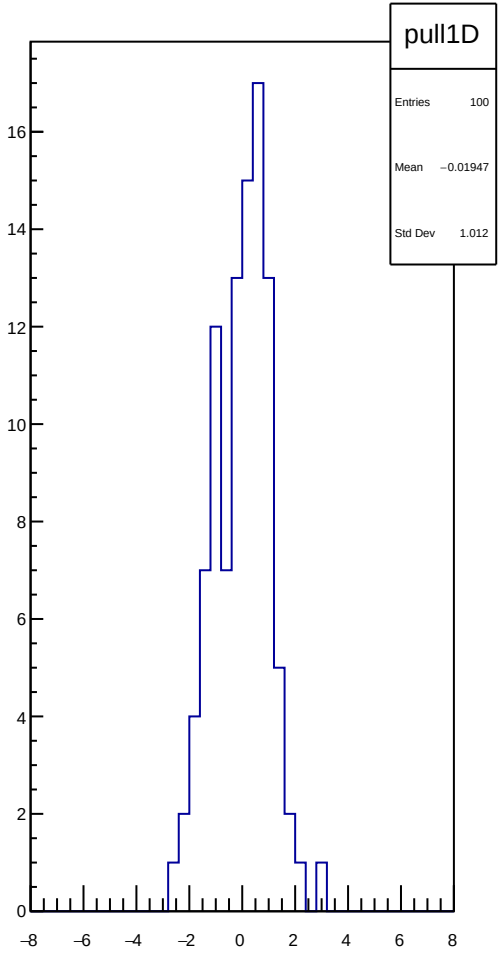

dit_asym_atl_dd_rms vs run
χ² / ndf 9430 / 99
p0 1736 ± 1.254
1950
1900
1850
1800
1750
1700
1650
1600
1550

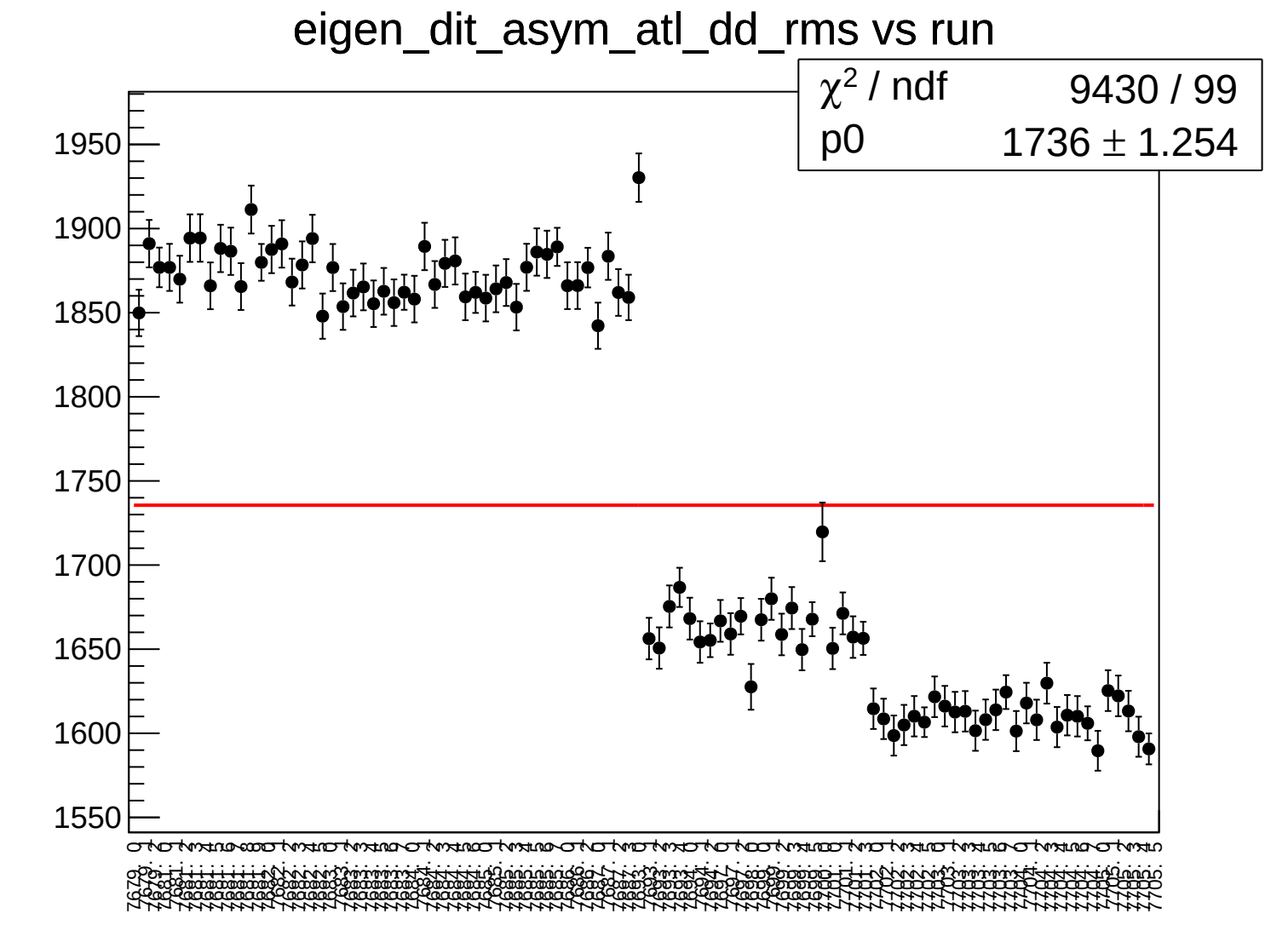

asym_atl_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 107.9 / 99
p0 −9850 ± 4717
pull
Entries 100
Mean −240.2
Std Dev 0

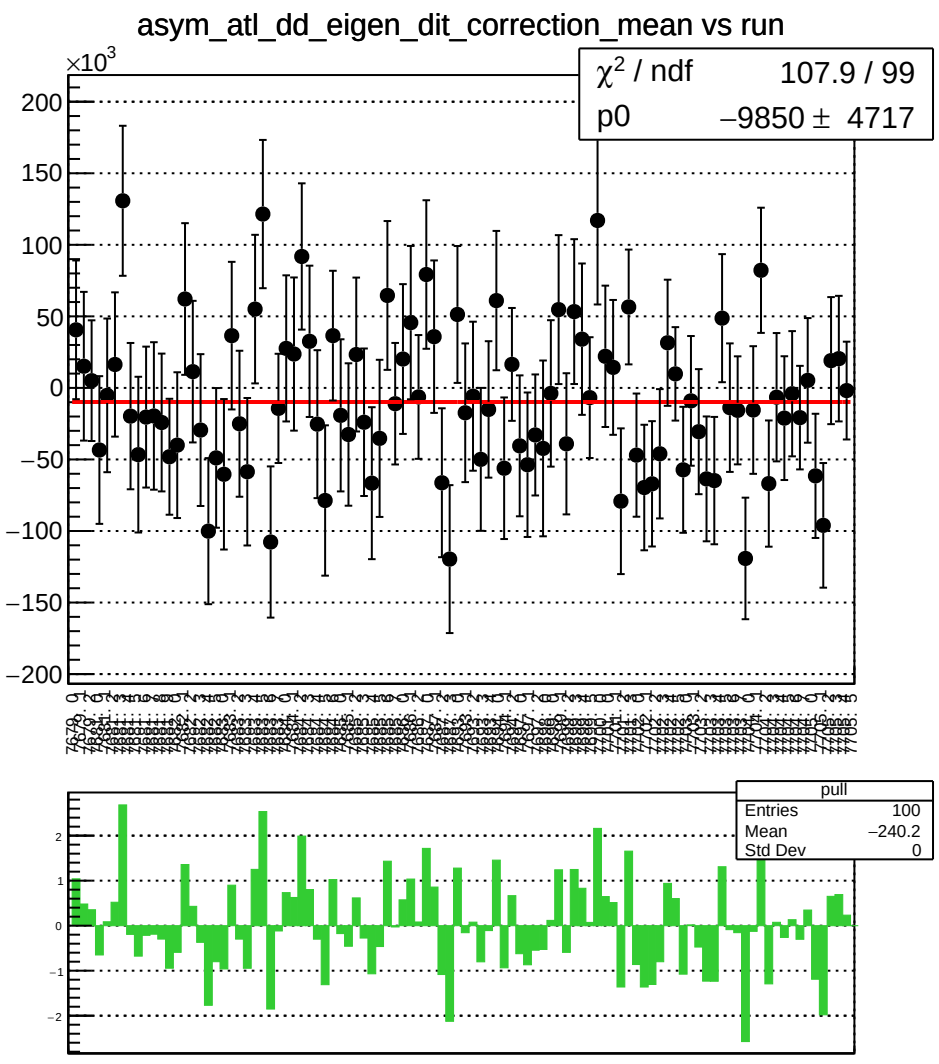

pull1D
Entries 100
Mean 0.01201
Std Dev 1.038

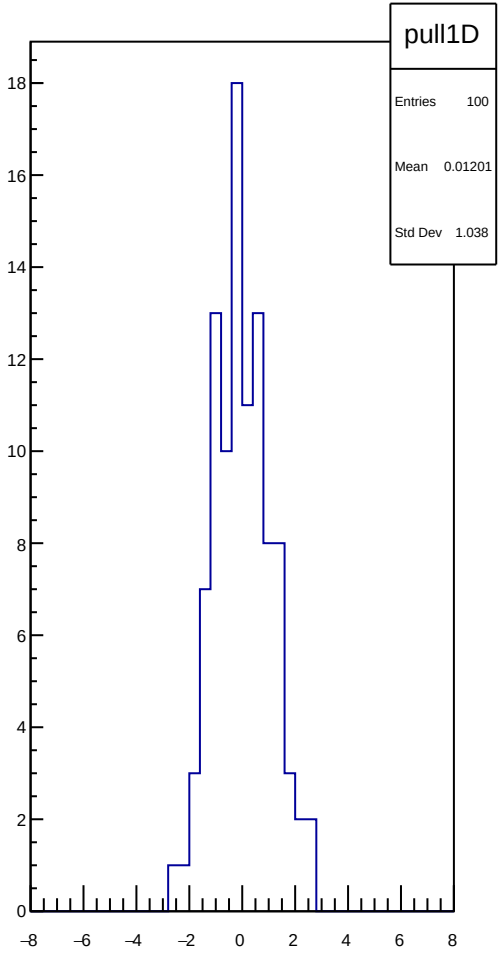

asym_atl_dd_dit_correction_rms vs run
χ^2 / ndf 1.116e+04 / 99
p0 4614 ± 3.335
5200
5000
4800
4600
4400
4200
4000

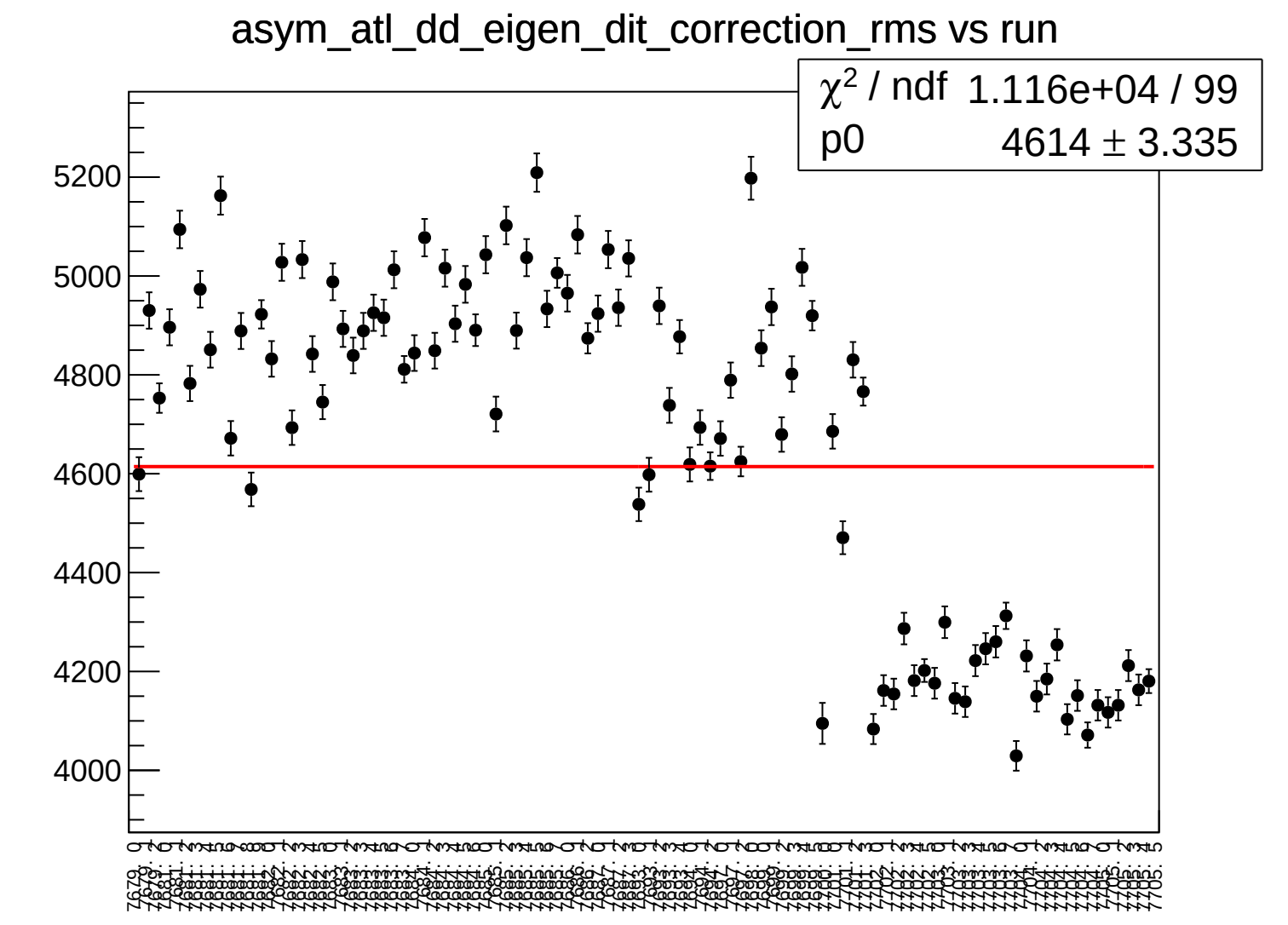

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 102.5 / 99
p0 −939.6 ± 1773
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −20.78
Std Dev 0
3
2
1
0
−1
−2

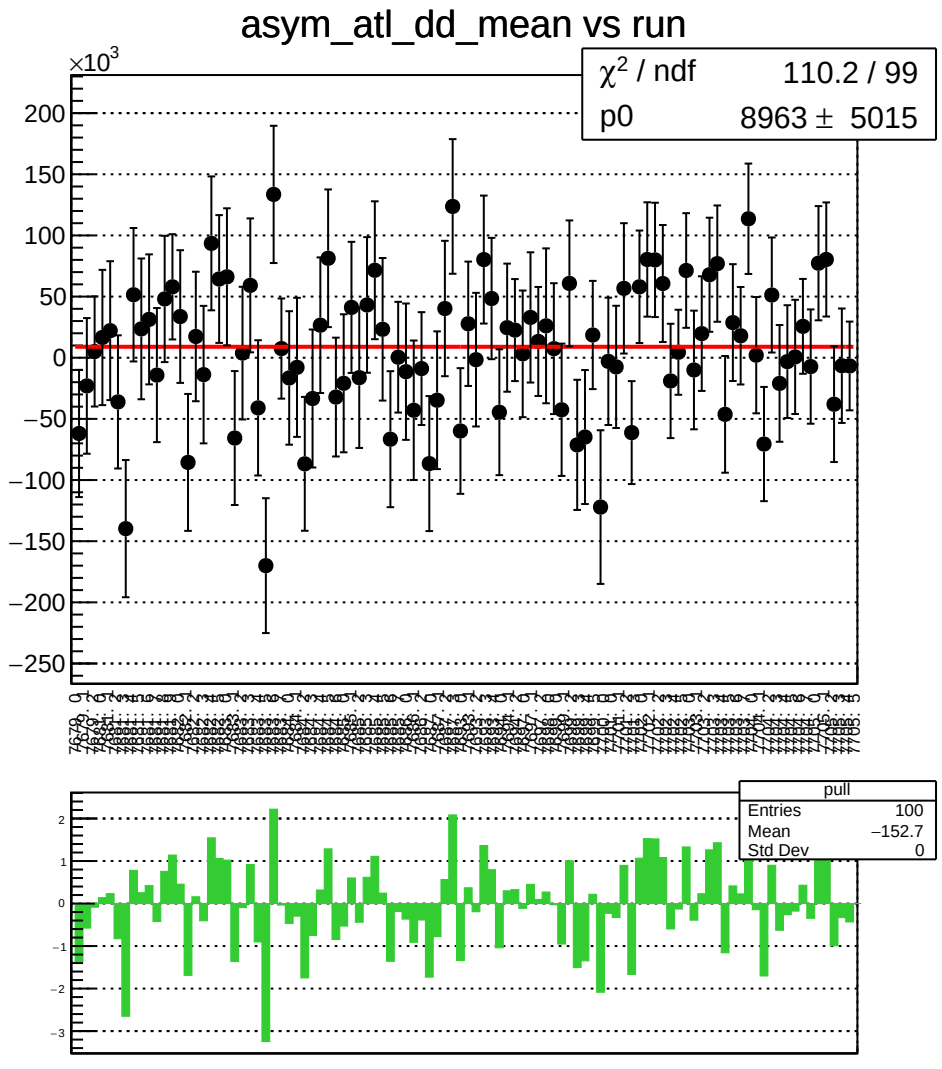

pull1D
Entries 100
Mean −0.01947
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

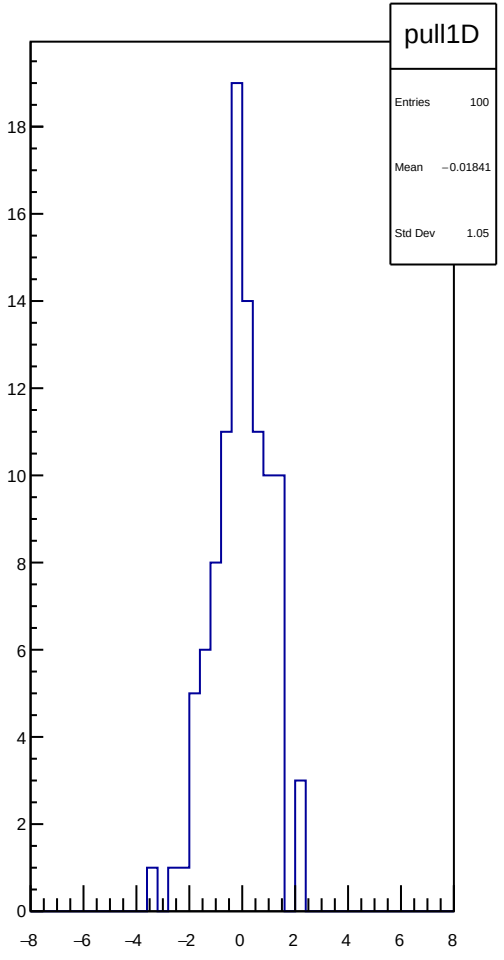

eigen_dit_asym_atl_dd_rms vs run
χ^2 / ndf 9430 / 99
p0 1736 ± 1.254
1950
1900
1850
1800
1750
1700
1650
1600
1550

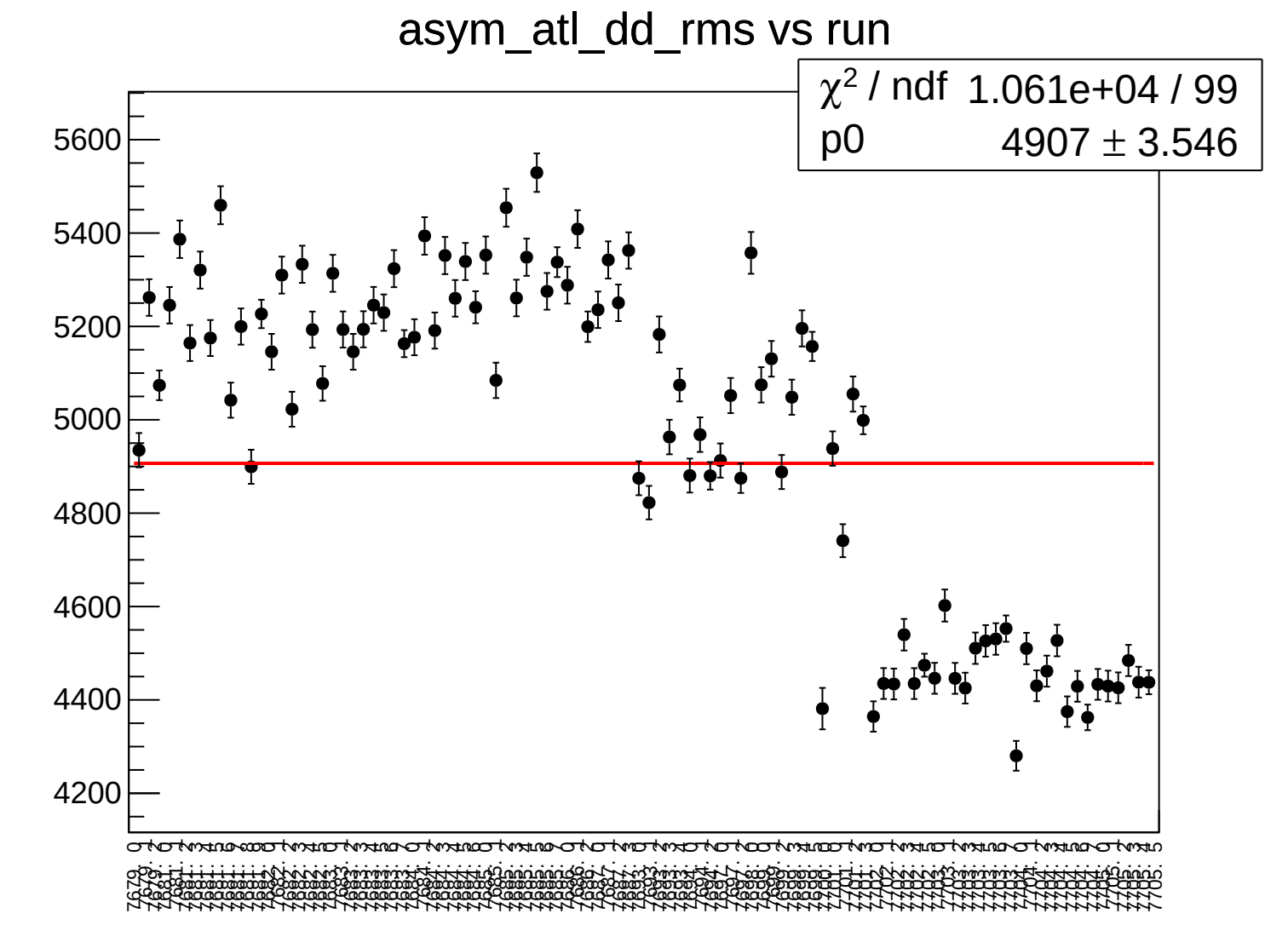

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 107.9 / 99
p0 −9850 ± 4717
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 100
Mean −240.2
Std Dev 0
2
1
0
−1
−2

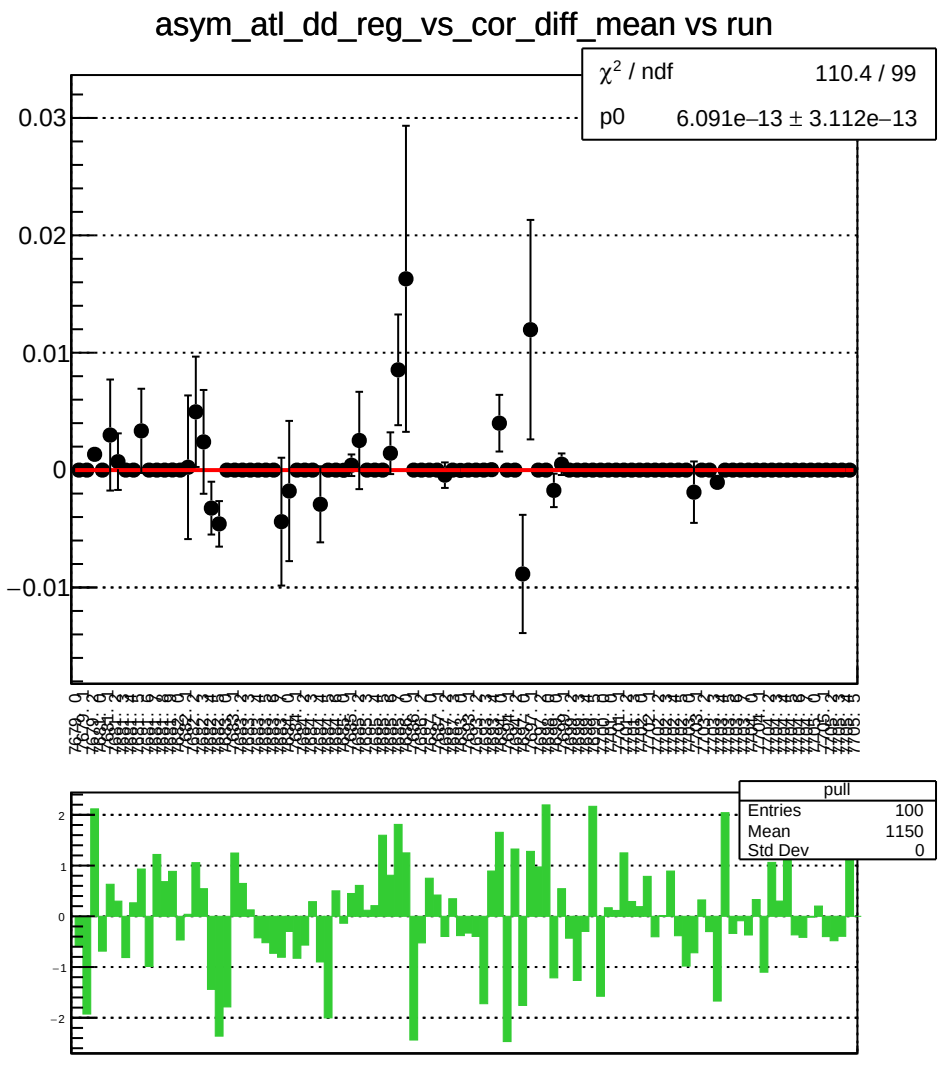

pull1D
Entries 100
Mean 0.01201
Std Dev 1.038
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

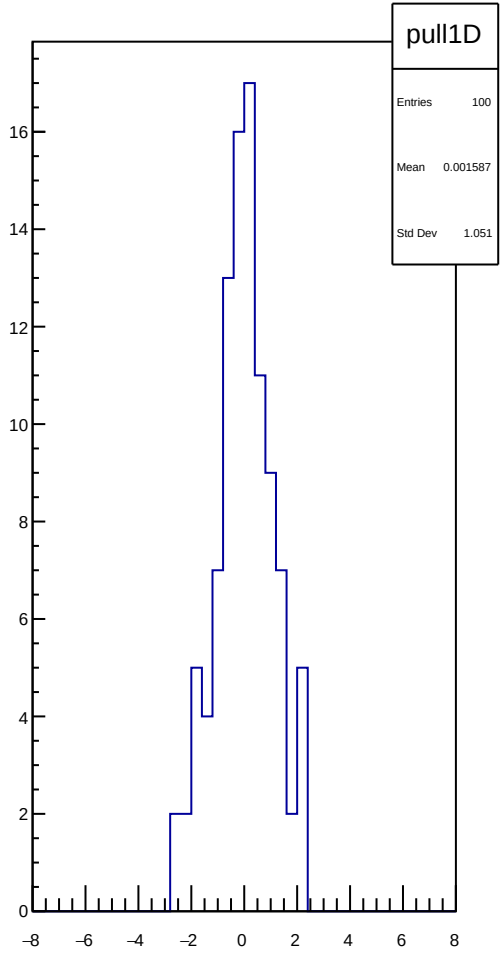

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.116e+04 / 99
p0 4614 ± 3.335
5200
5000
4800
4600
4400
4200
4000

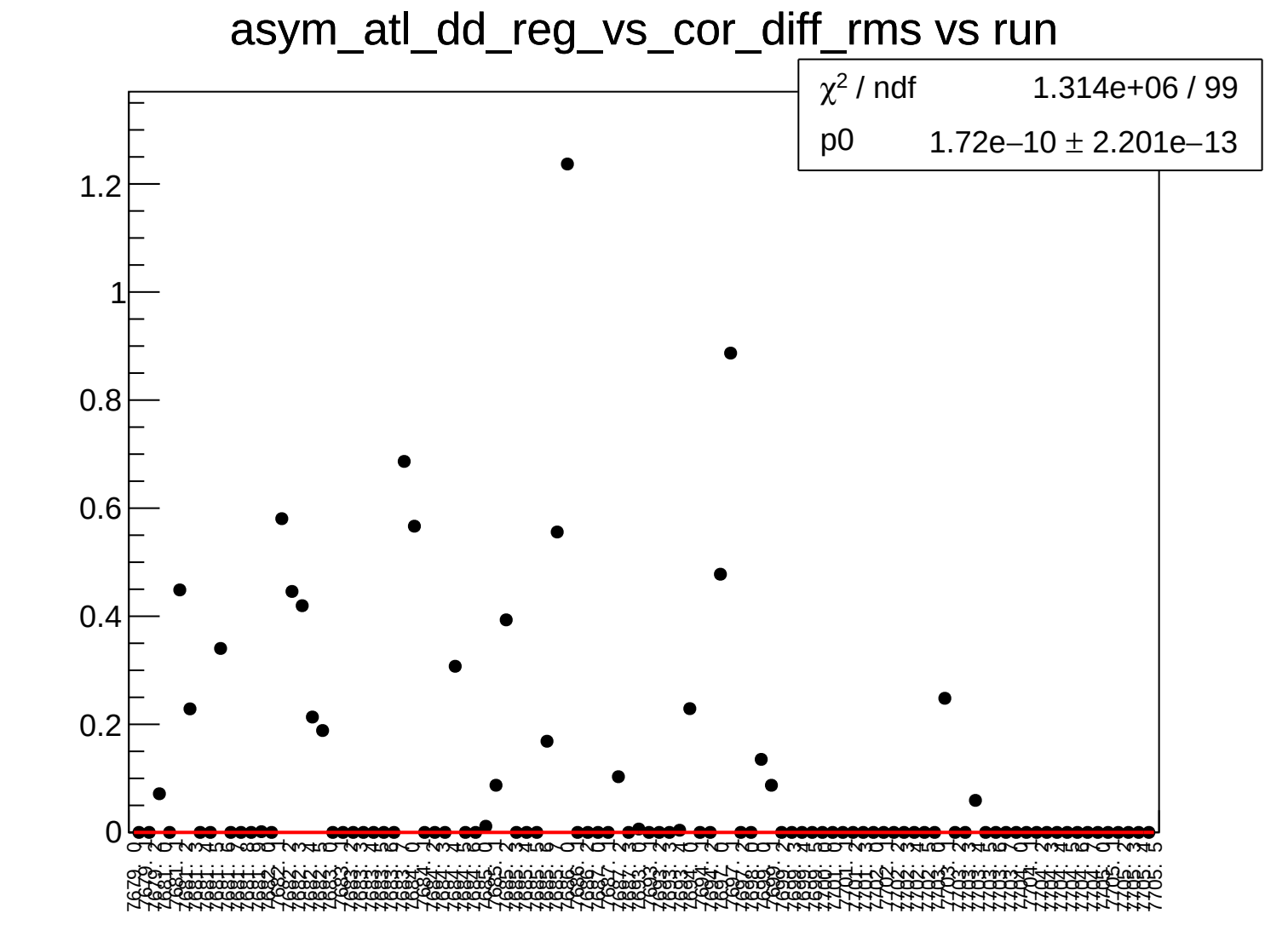

asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 110.2 / 99
p0 8963 ± 5015
pull
Entries 100
Mean −152.7
Std Dev 0

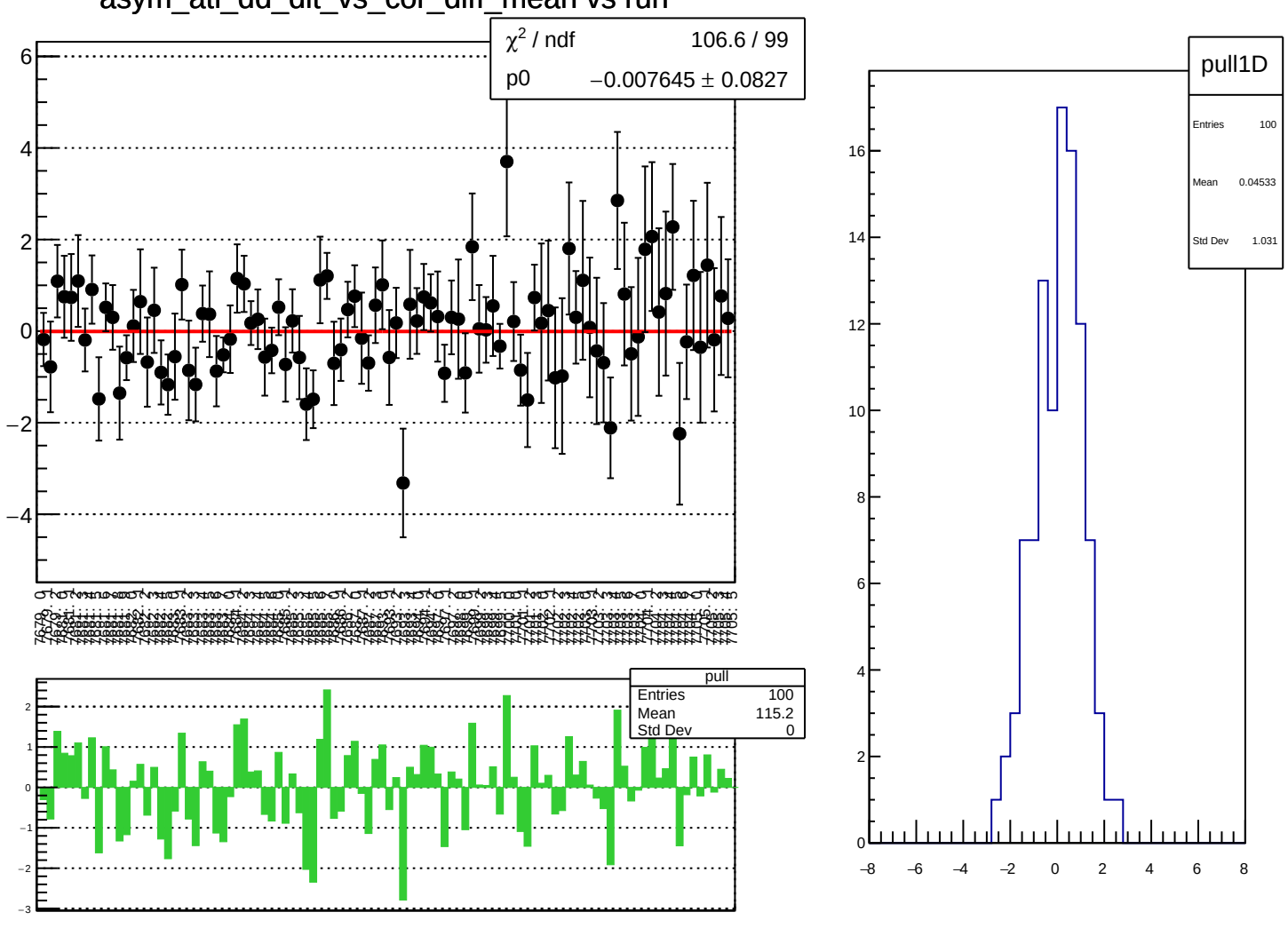

pull1D
Entries 100
Mean −0.01841
Std Dev 1.05

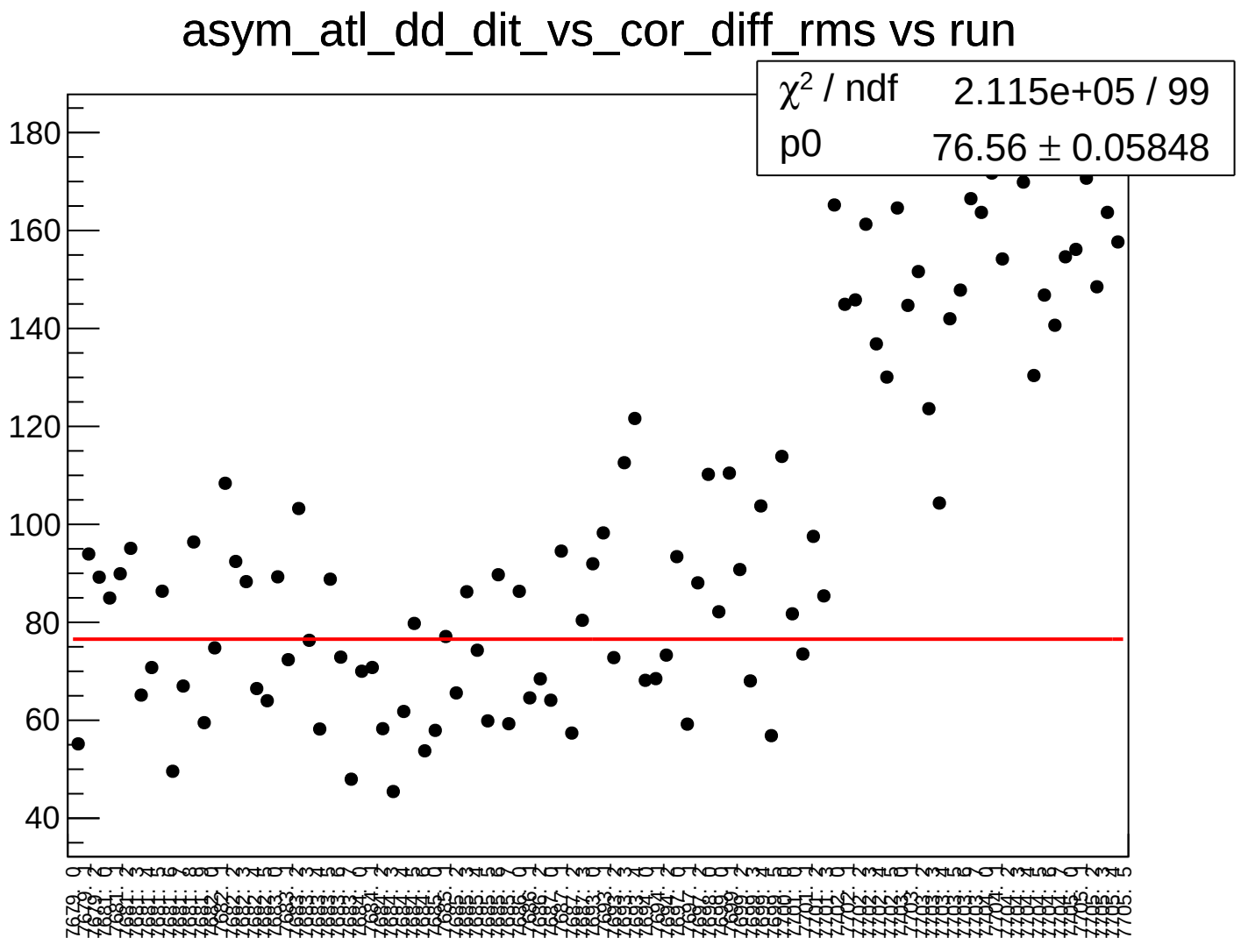

asym_atl_dd_rms vs run
χ² / ndf 1.061e+04 / 99
p0 4907 ± 3.546
5600
5400
5200
5000
4800
4600
4400
4200

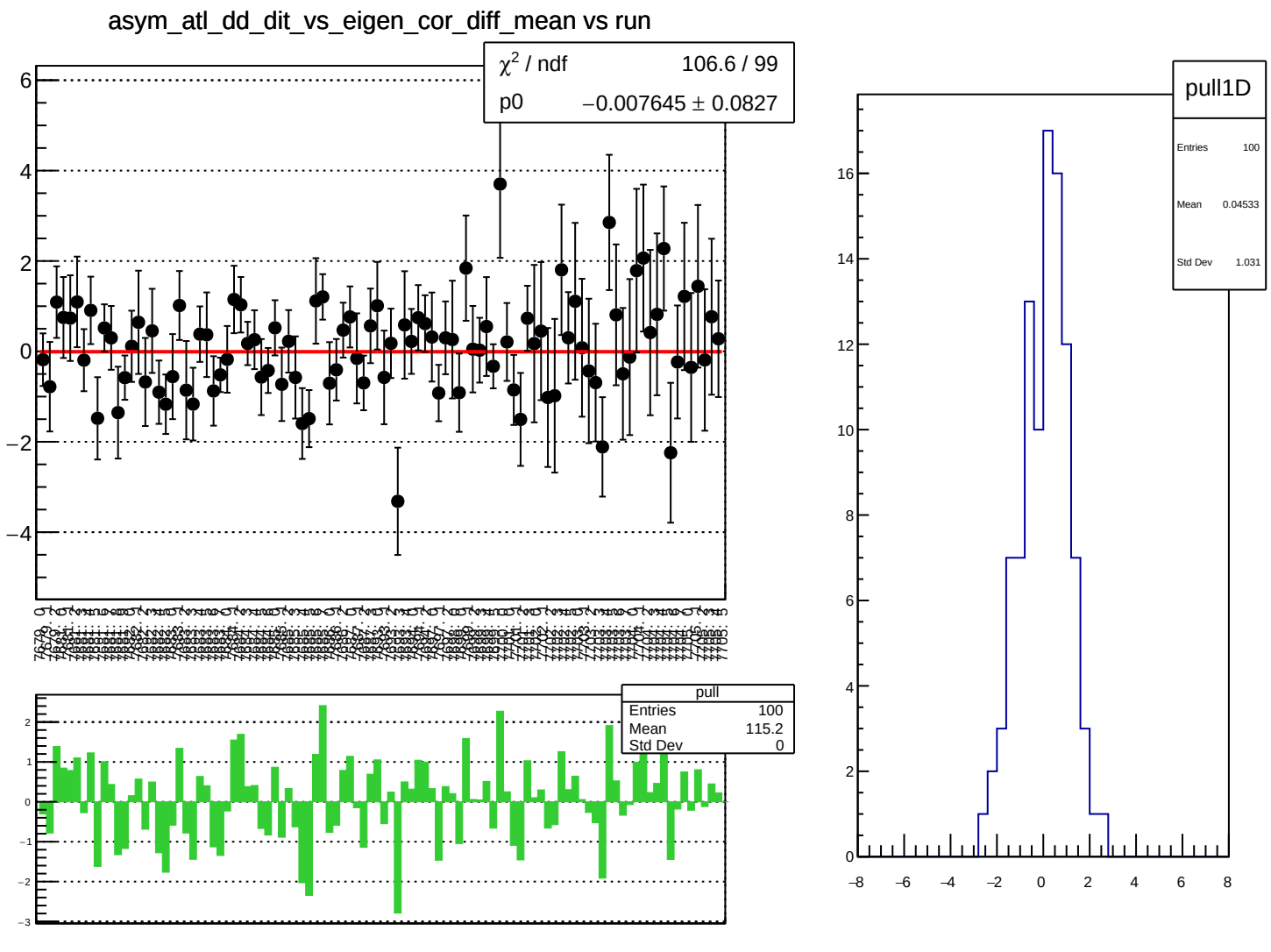

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 110.4 / 99
p0 6.091e−13 ± 3.112e−13
0.03
0.02
0.01
0
−0.01
pull
Entries 100
Mean 1150
Std Dev 0
2
1
0
−1
−2

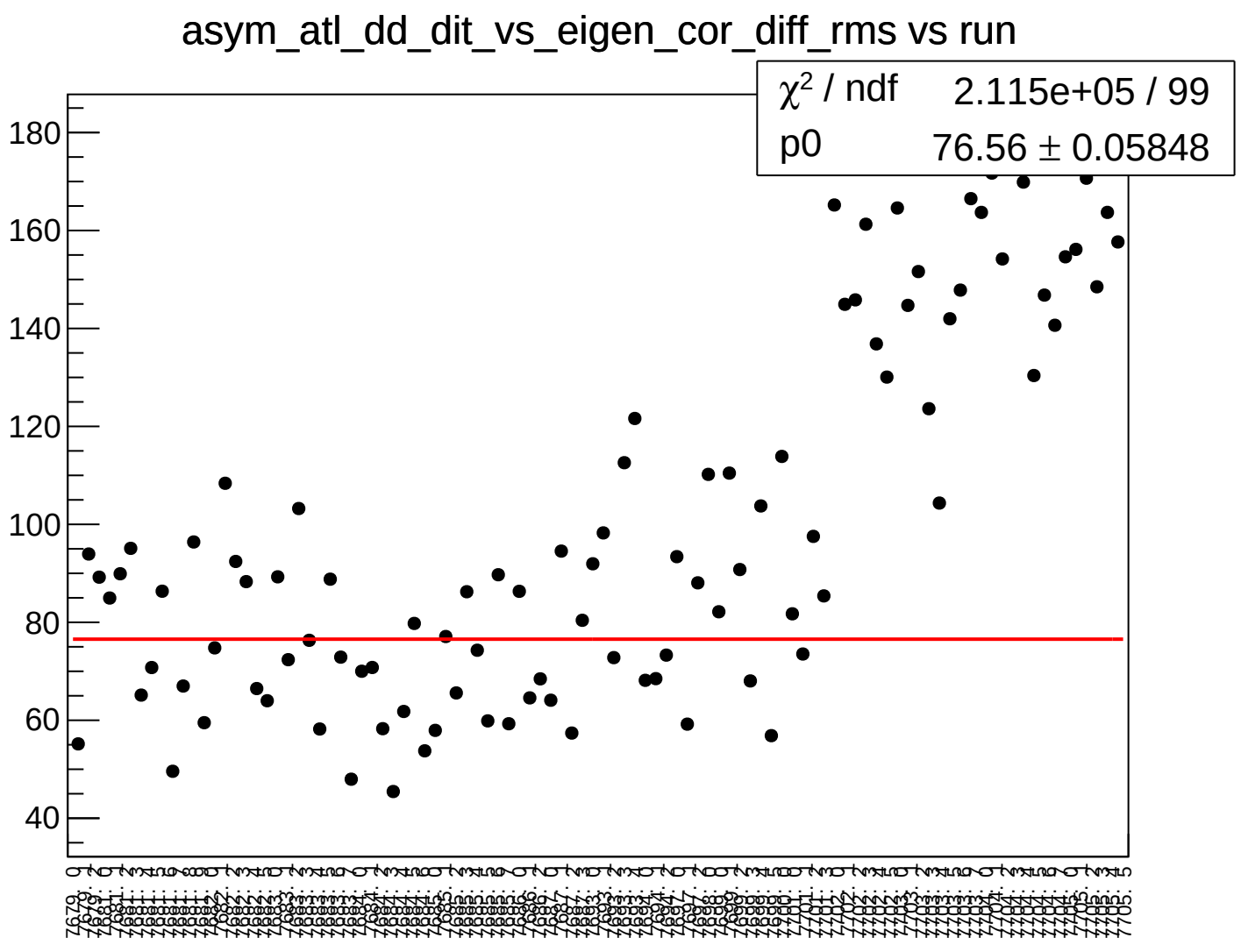

pull1D
Entries 100
Mean 0.001587
Std Dev 1.051
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

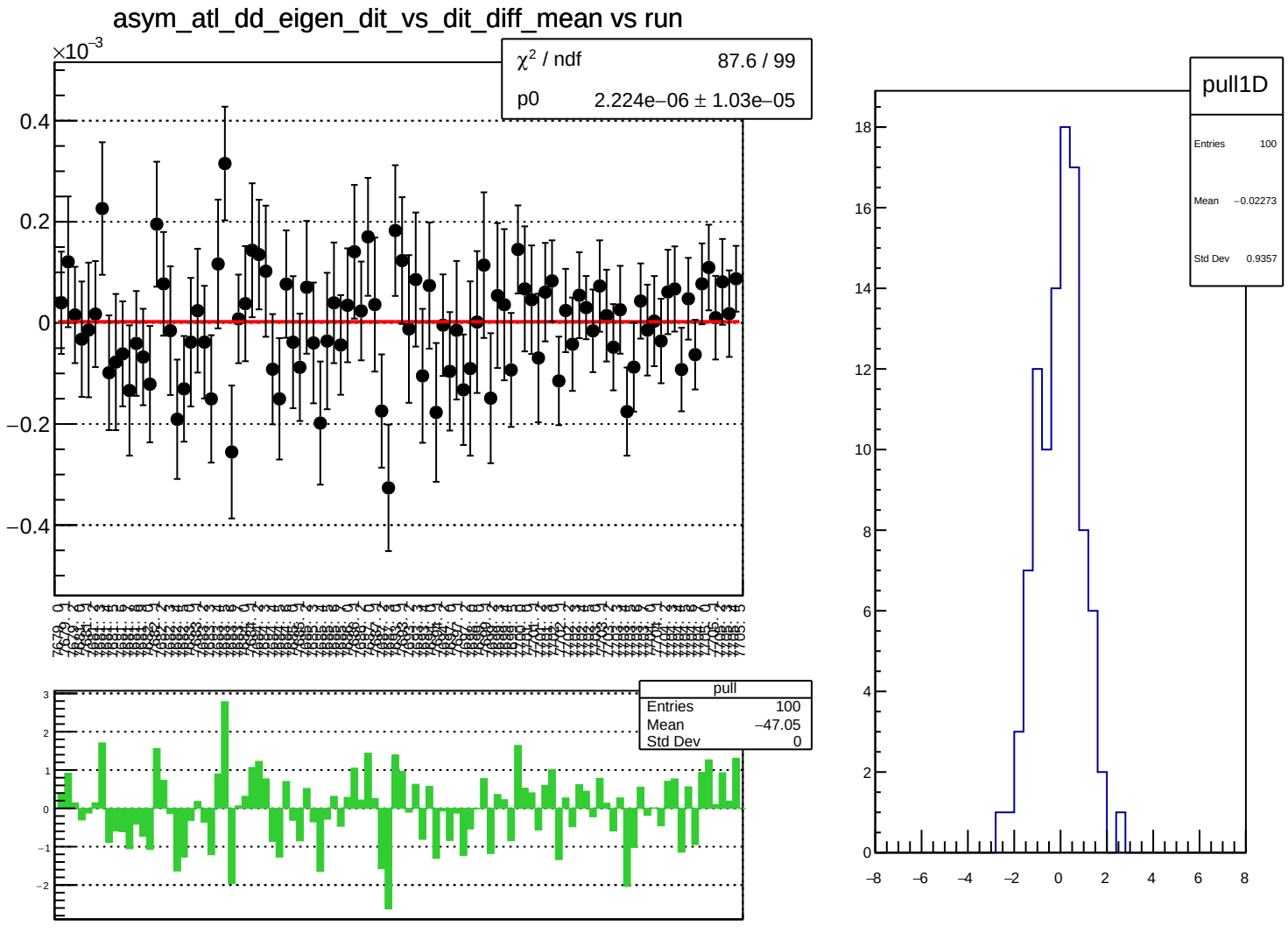

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.314e+06 / 99
p0 1.72e−10 ± 2.201e−13
1.2
1
0.8
0.6
0.4
0.2
0

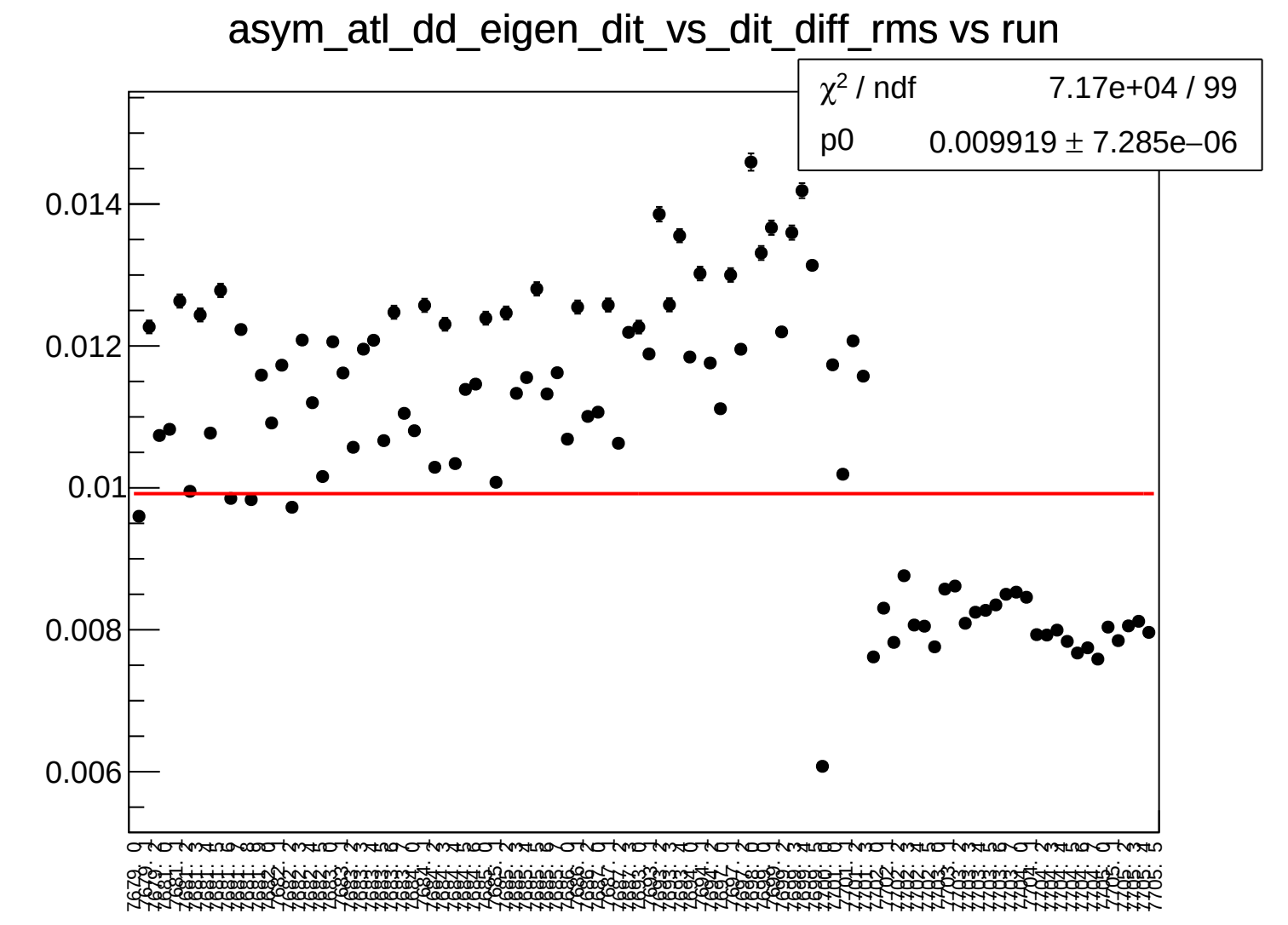

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 106.6 / 99
p0 −0.007645 ± 0.0827
pull
Entries 100
Mean 115.2
Std Dev 0
pull1D
Entries 100
Mean 0.04533
Std Dev 1.031

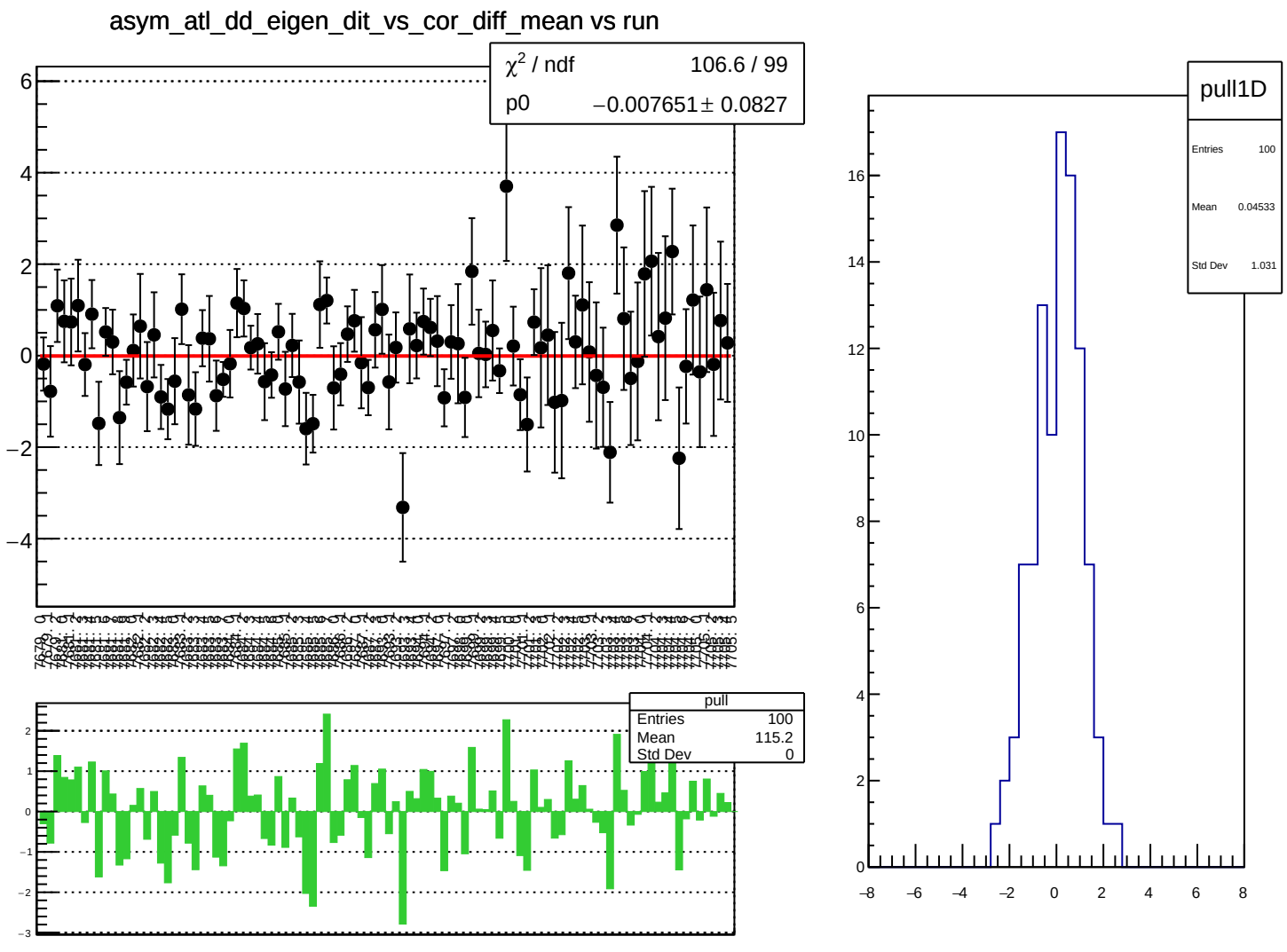

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.115e+05 / 99
p0 76.56 ± 0.05848
180
160
140
120
100
80
60
40

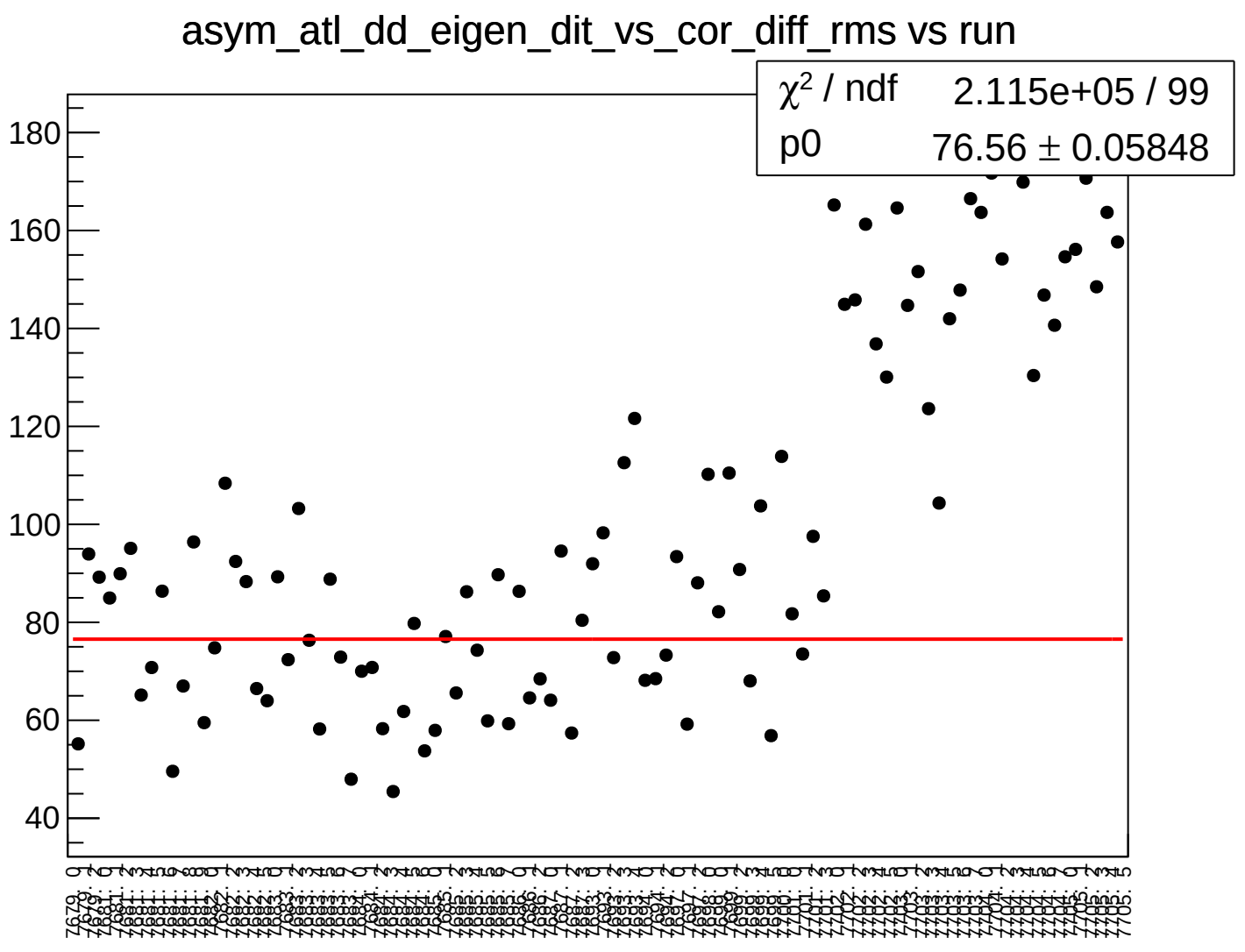

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.6 / 99
p0 −0.007645 ± 0.0827
pull
Entries 100
Mean 115.2
Std Dev 0
pull1D
Entries 100
Mean 0.04533
Std Dev 1.031

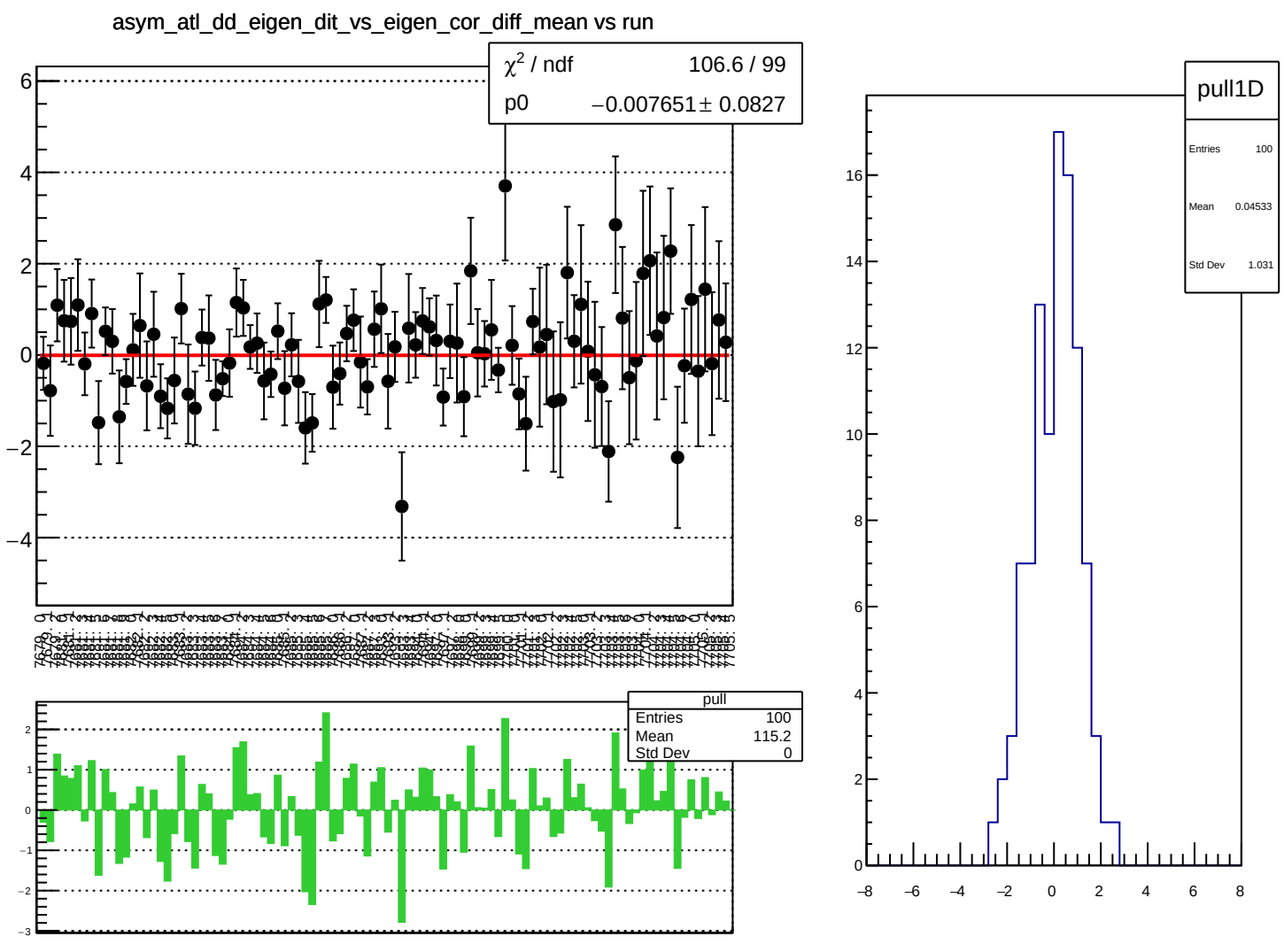

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.115e+05 / 99
p0 76.56 ± 0.05848
180
160
140
120
100
80
60
40

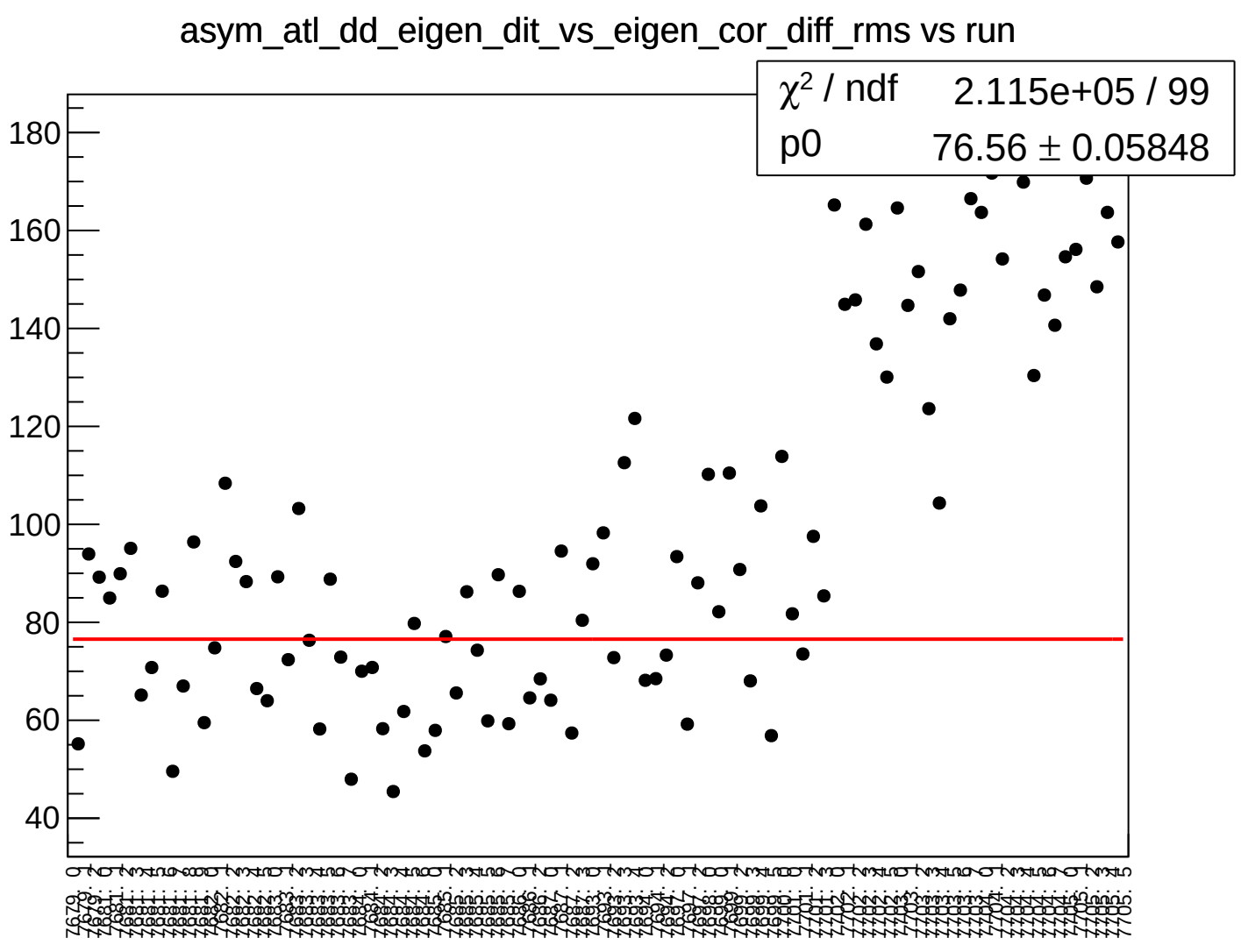

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.6 / 99
p0 2.224e−06 ± 1.03e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 100
Mean −47.05
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.02273
Std Dev 0.9357
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

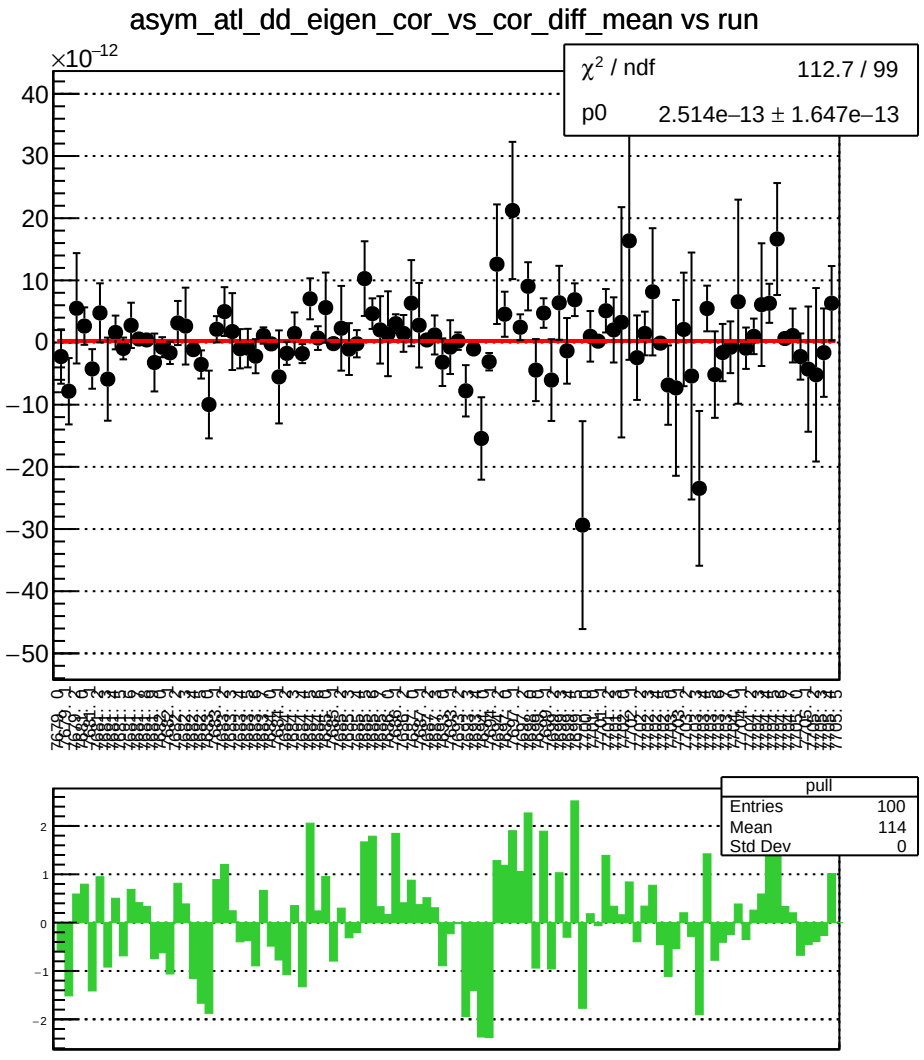

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.17e+04 / 99
p0 0.009919 ± 7.285e−06
0.014
0.012
0.01
0.008
0.006

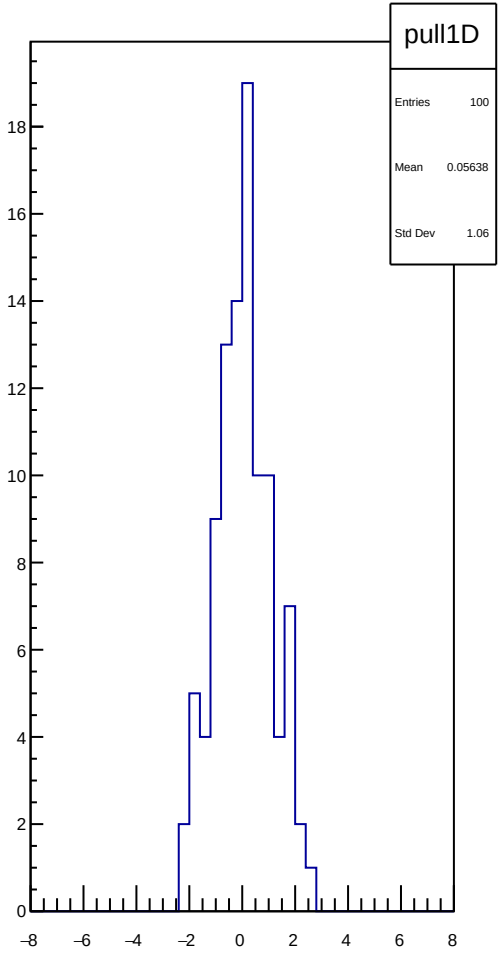

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.6 / 99
p0 −0.007651 ± 0.0827
pull
Entries 100
Mean 115.2
Std Dev 0
pull1D
Entries 100
Mean 0.04533
Std Dev 1.031

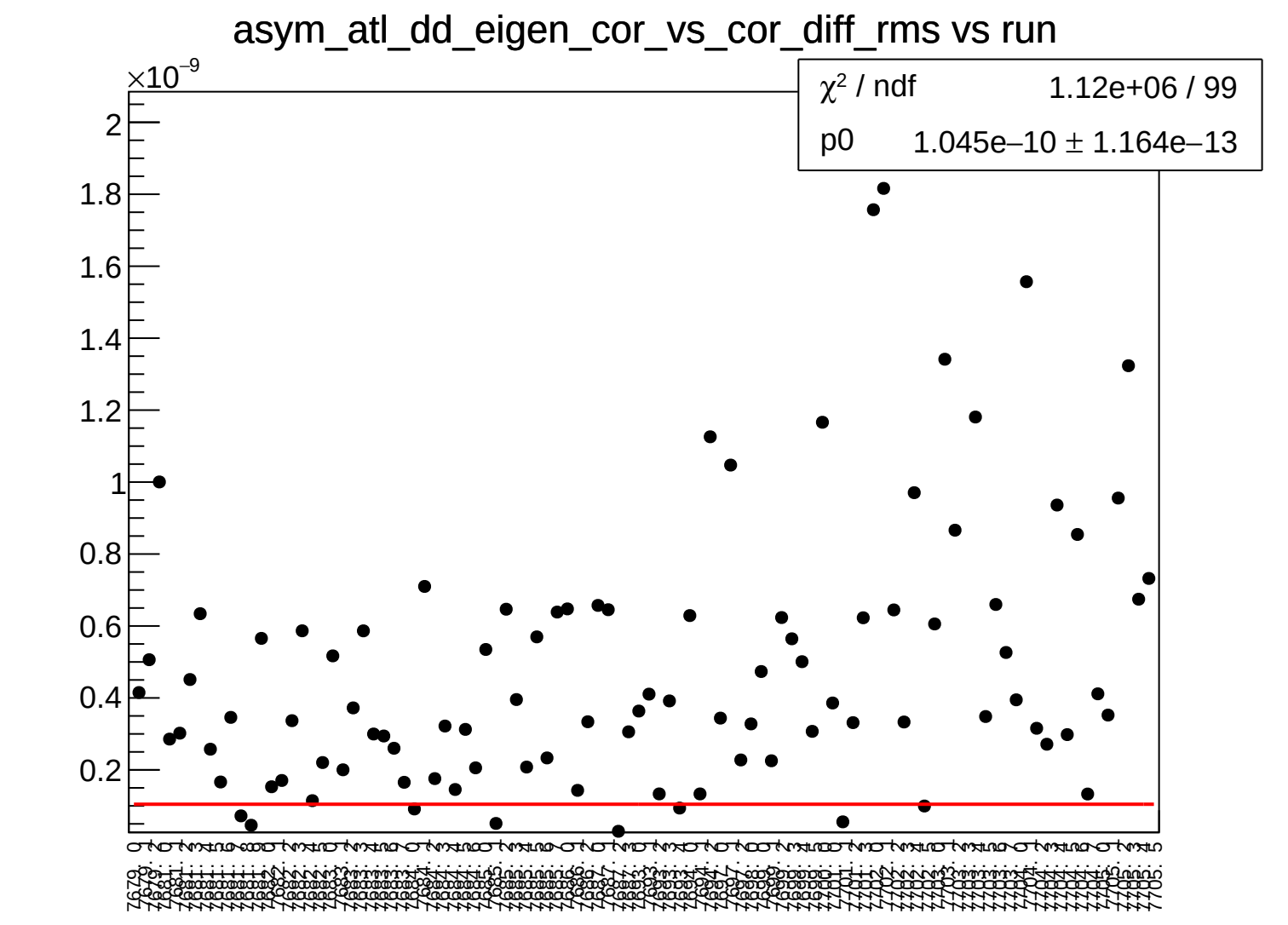

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.115e+05 / 99
p0 76.56 ± 0.05848
180
160
140
120
100
80
60
40

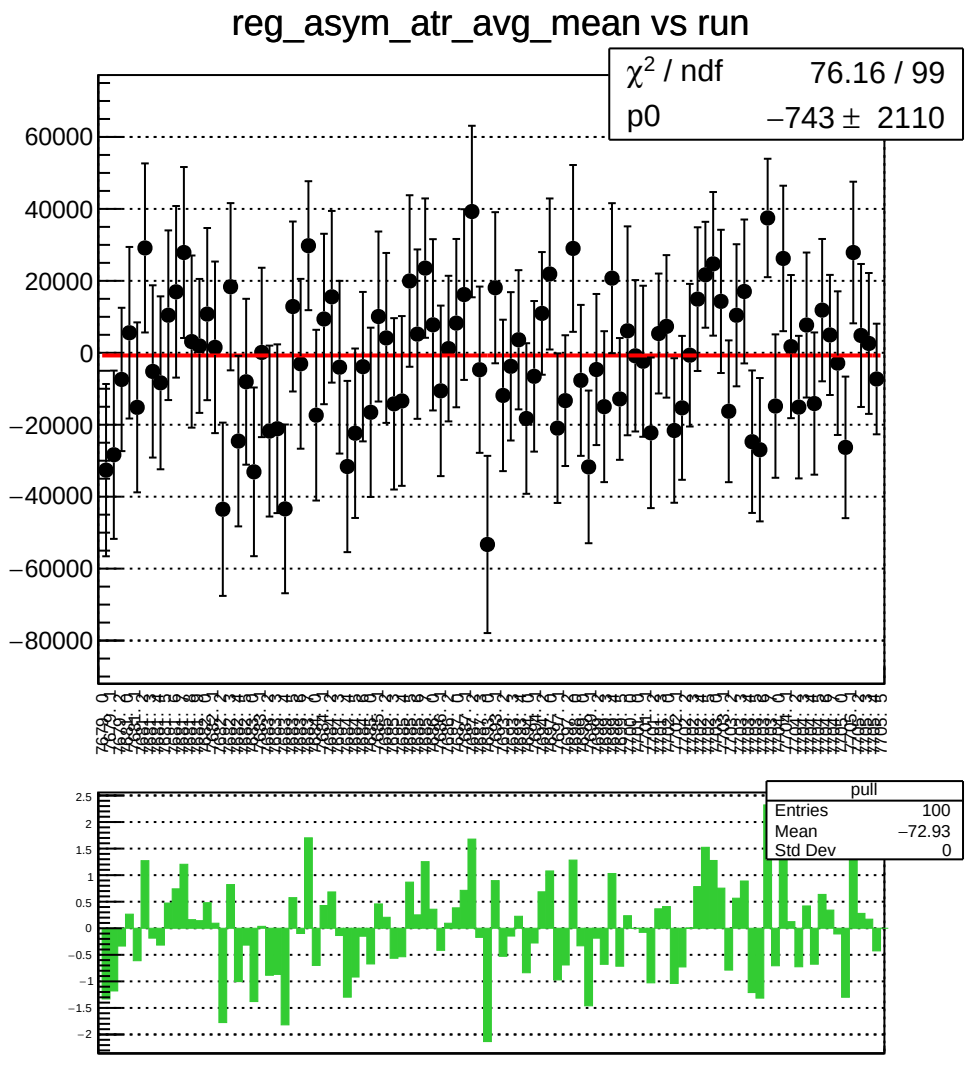

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.6 / 99
p0 −0.007651 ± 0.0827
pull
Entries 100
Mean 115.2
Std Dev 0
pull1D
Entries 100
Mean 0.04533
Std Dev 1.031

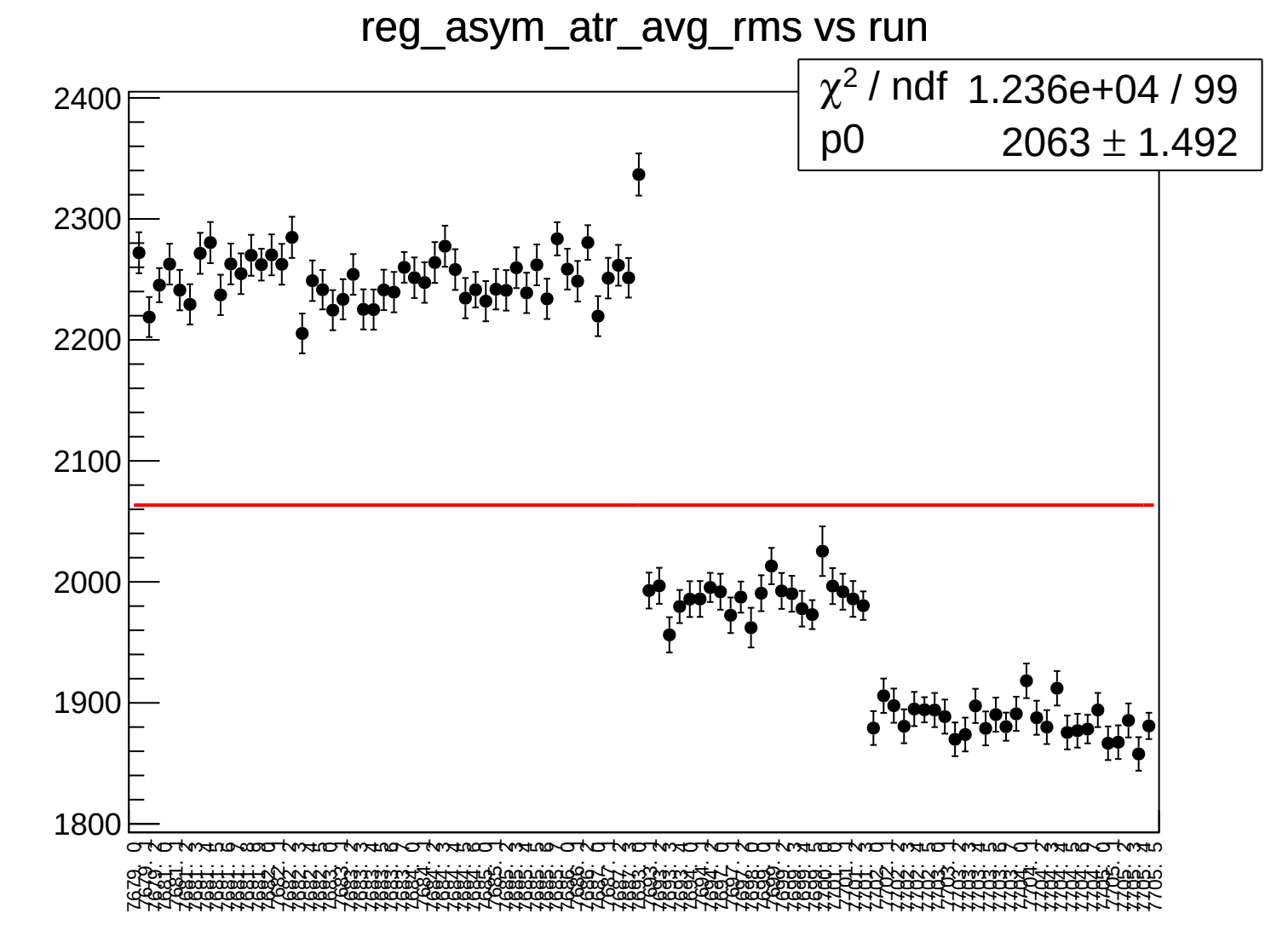

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.115e+05 / 99
p0 76.56 ± 0.05848
180
160
140
120
100
80
60
40

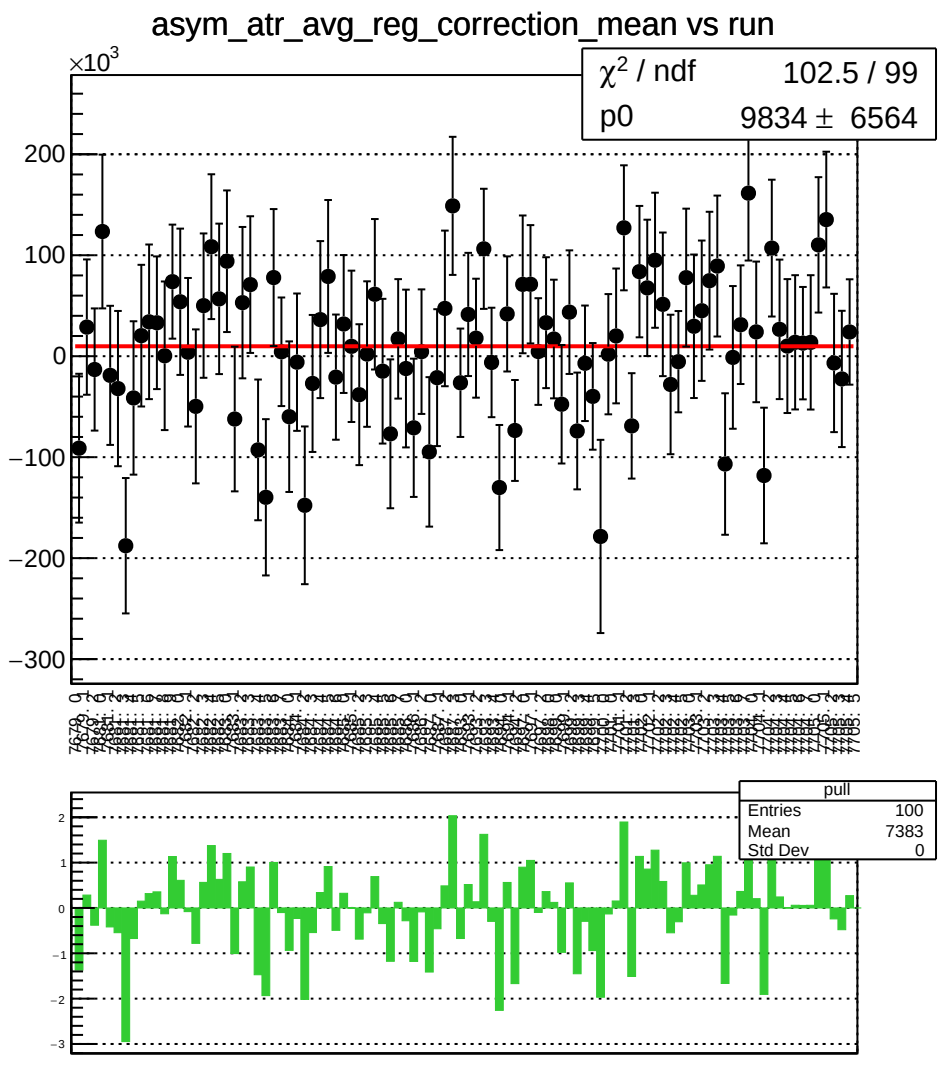

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 112.7 / 99
p0 2.514e−13 ± 1.647e−13
pull
Entries 100
Mean 114
Std Dev 0

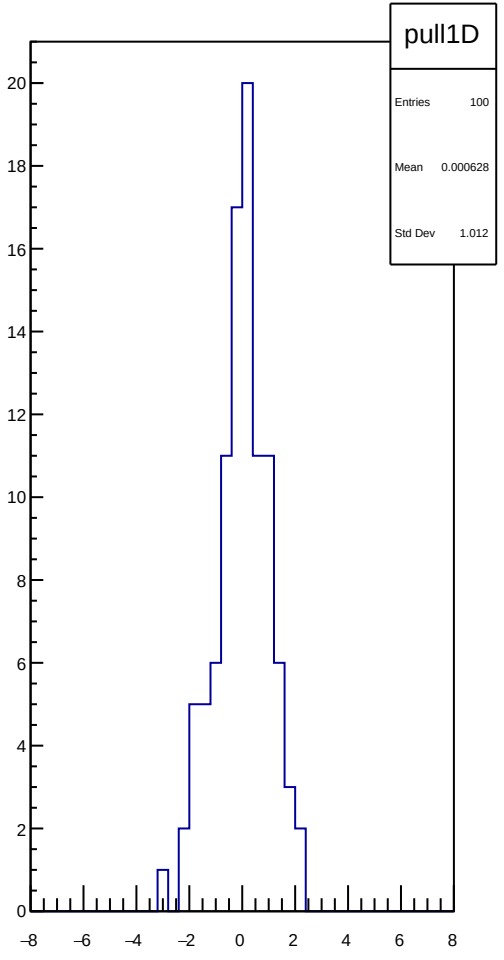

pull1D
Entries 100
Mean 0.05638
Std Dev 1.06

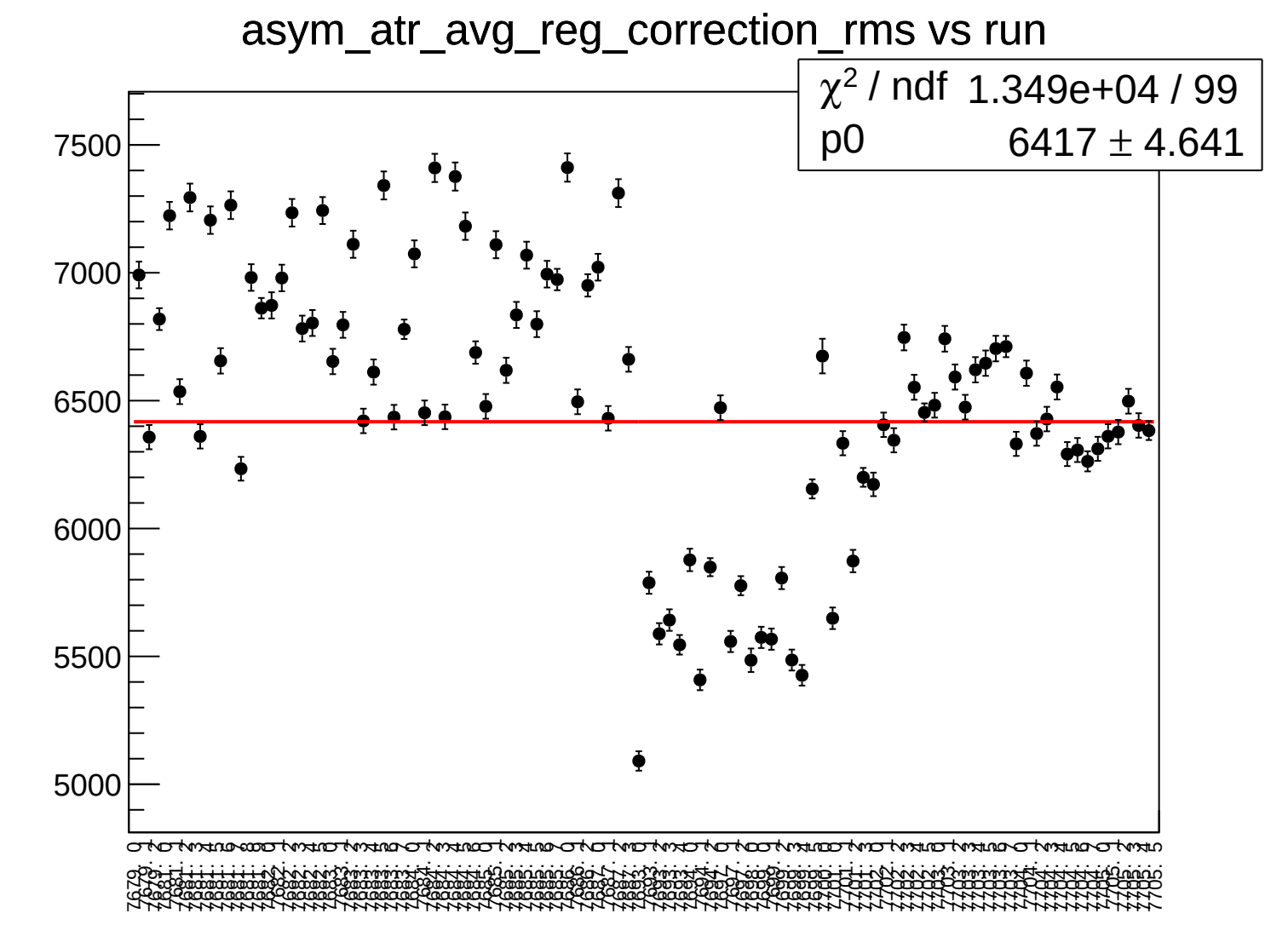

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.12e+06 / 99
p0 1.045e−10 ± 1.164e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

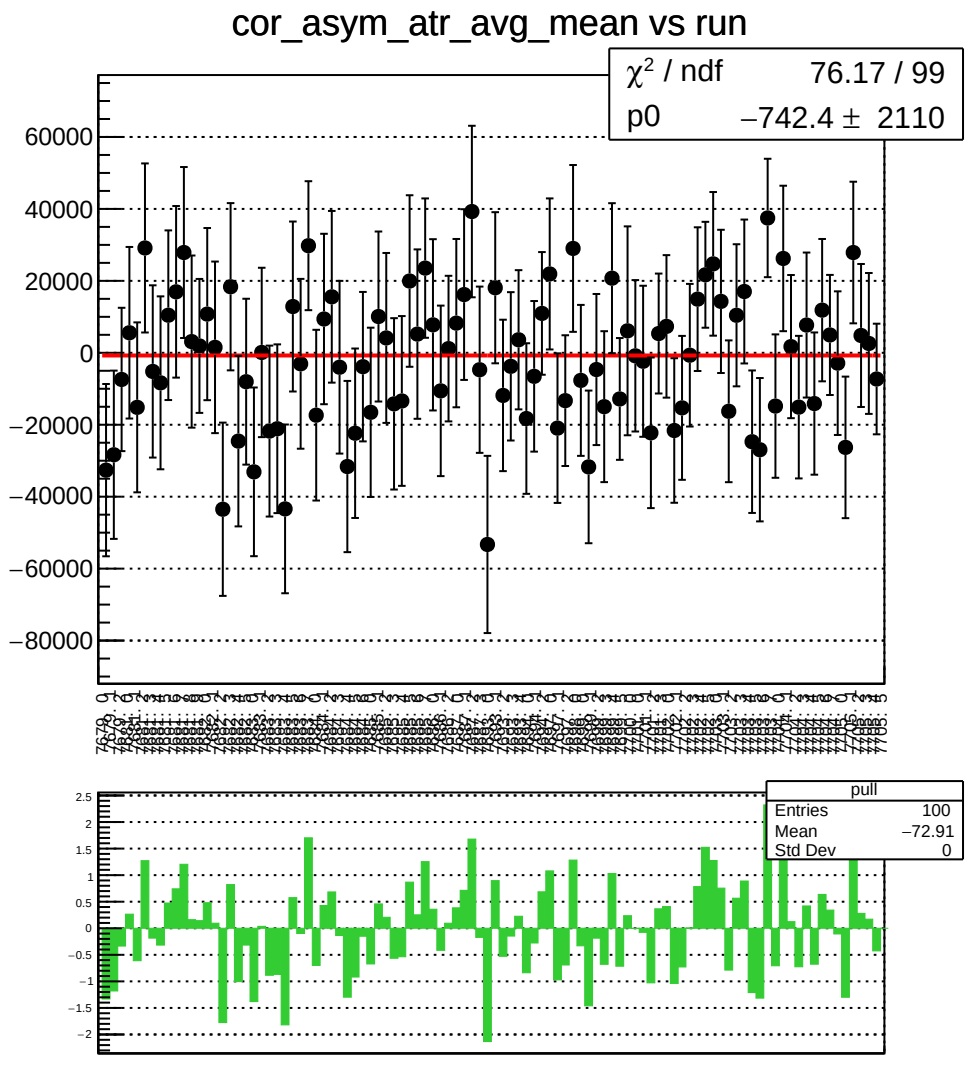

reg_asym_atr_avg_mean vs run
χ² / ndf 76.16 / 99
p0 −743 ± 2110
pull
Entries 100
Mean −72.93
Std Dev 0
pull1D
Entries 100
Mean −0.02297
Std Dev 0.8724

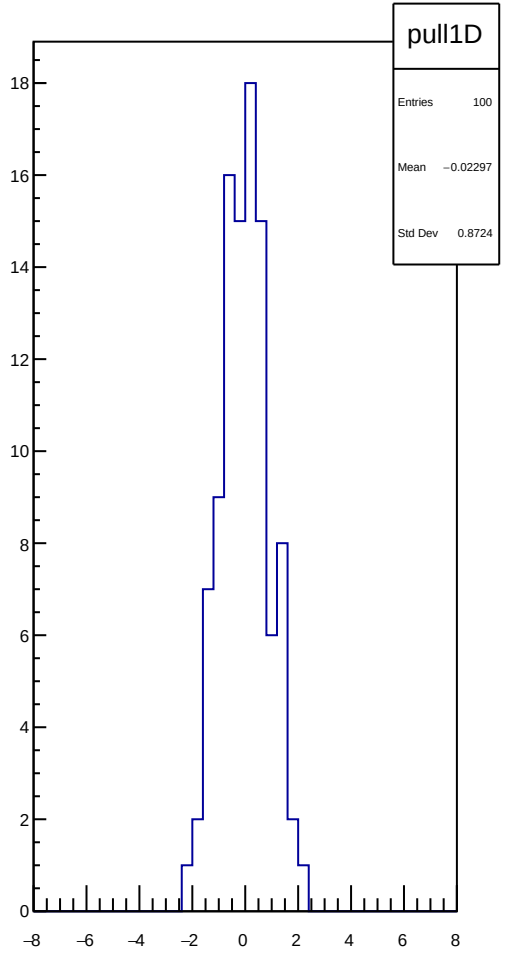

reg_asym_atr_avg_rms vs run
χ² / ndf 1.236e+04 / 99
p0 2063 ± 1.492
2400
2300
2200
2100
2000
1900
1800

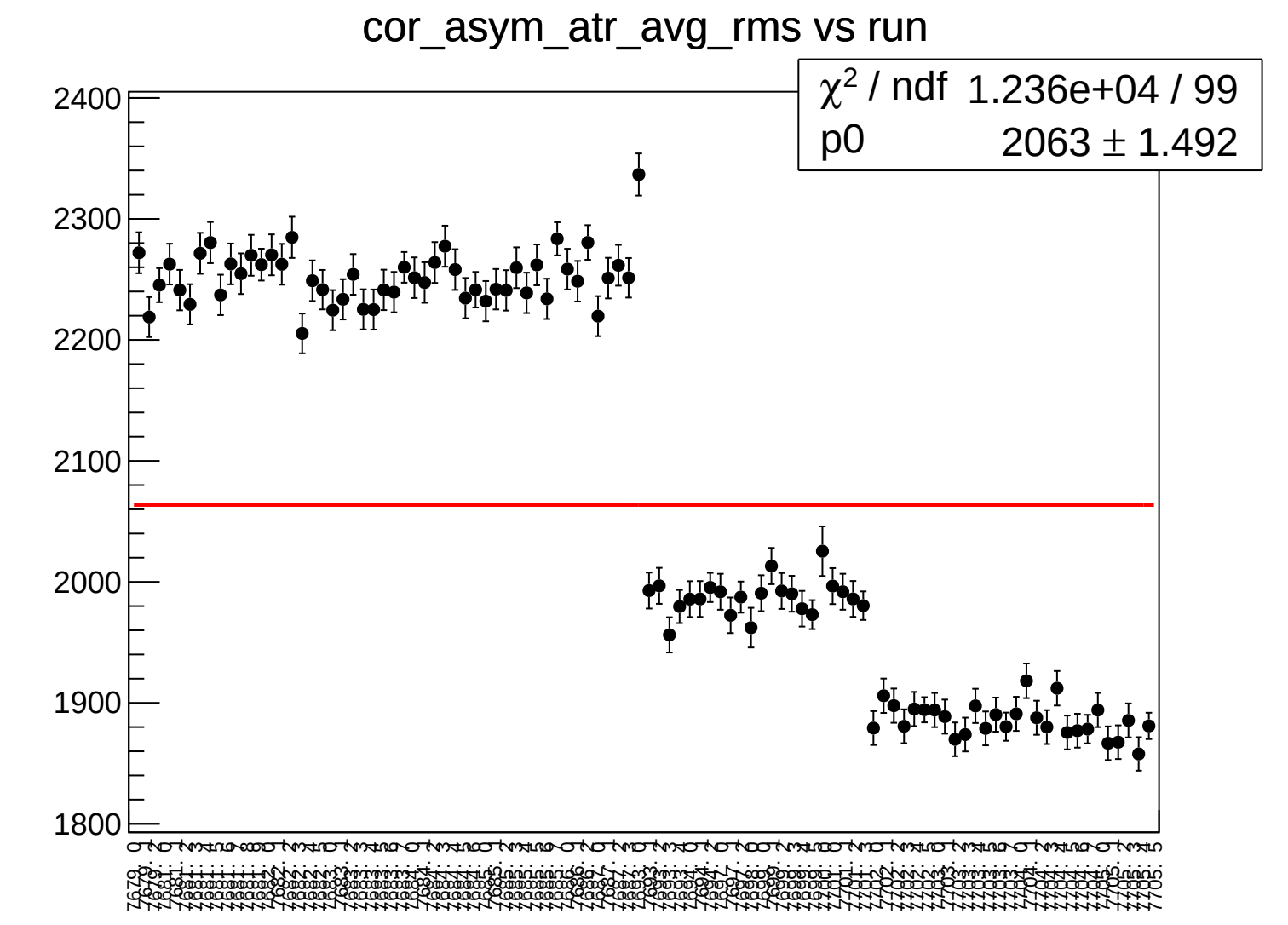

asym_atr_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 102.5 / 99
p0 9834 ± 6564
200
100
0
−100
−200
−300
pull
Entries 100
Mean 7383
Std Dev 0
2
1
0
−1
−2
−3

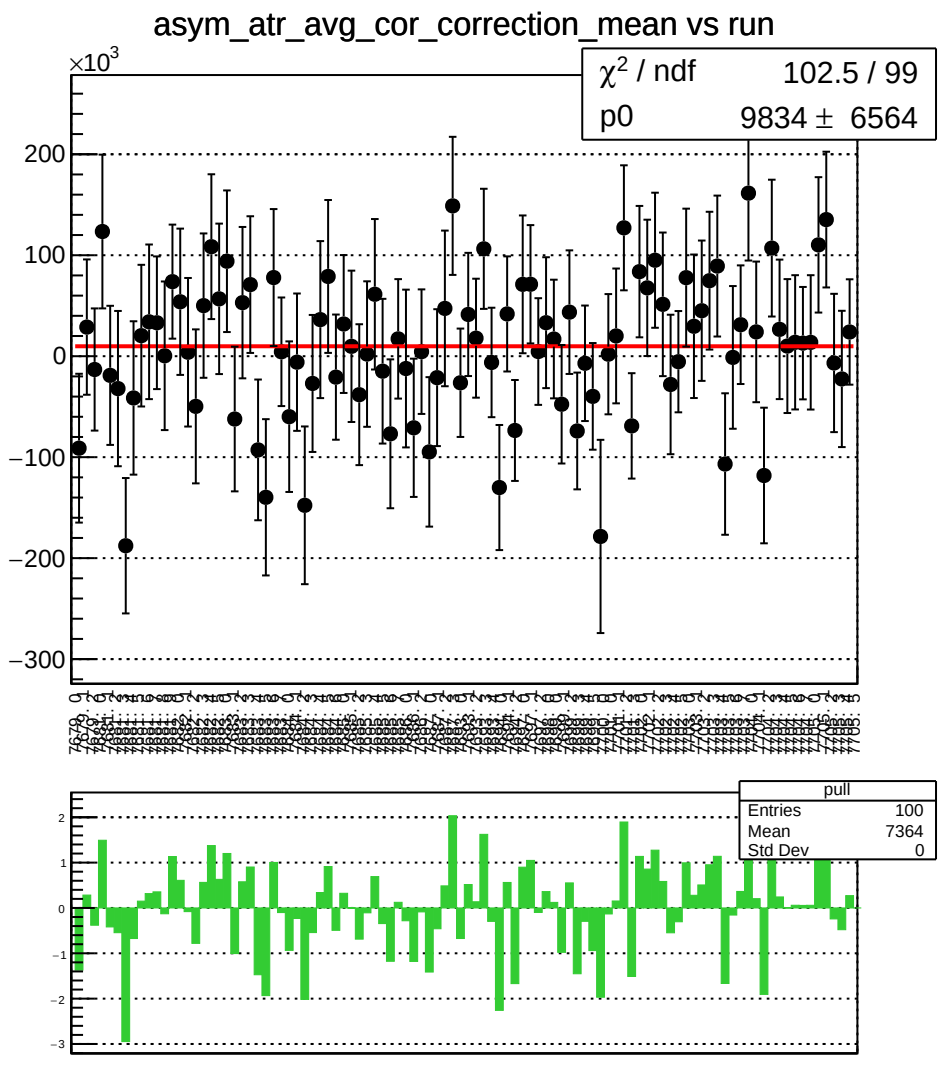

pull1D
Entries 100
Mean 0.000628
Std Dev 1.012
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

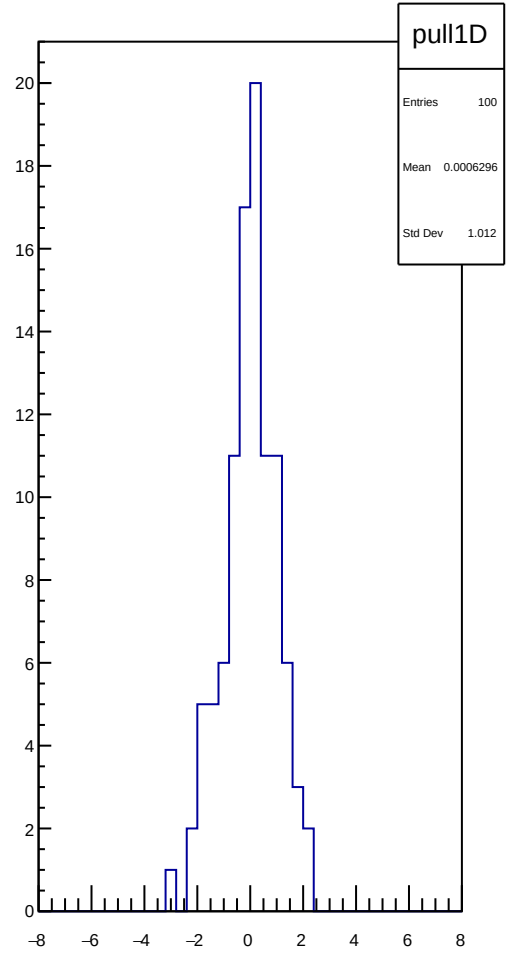

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 1.349e+04 / 99
p0 6417 ± 4.641
7500
7000
6500
6000
5500
5000

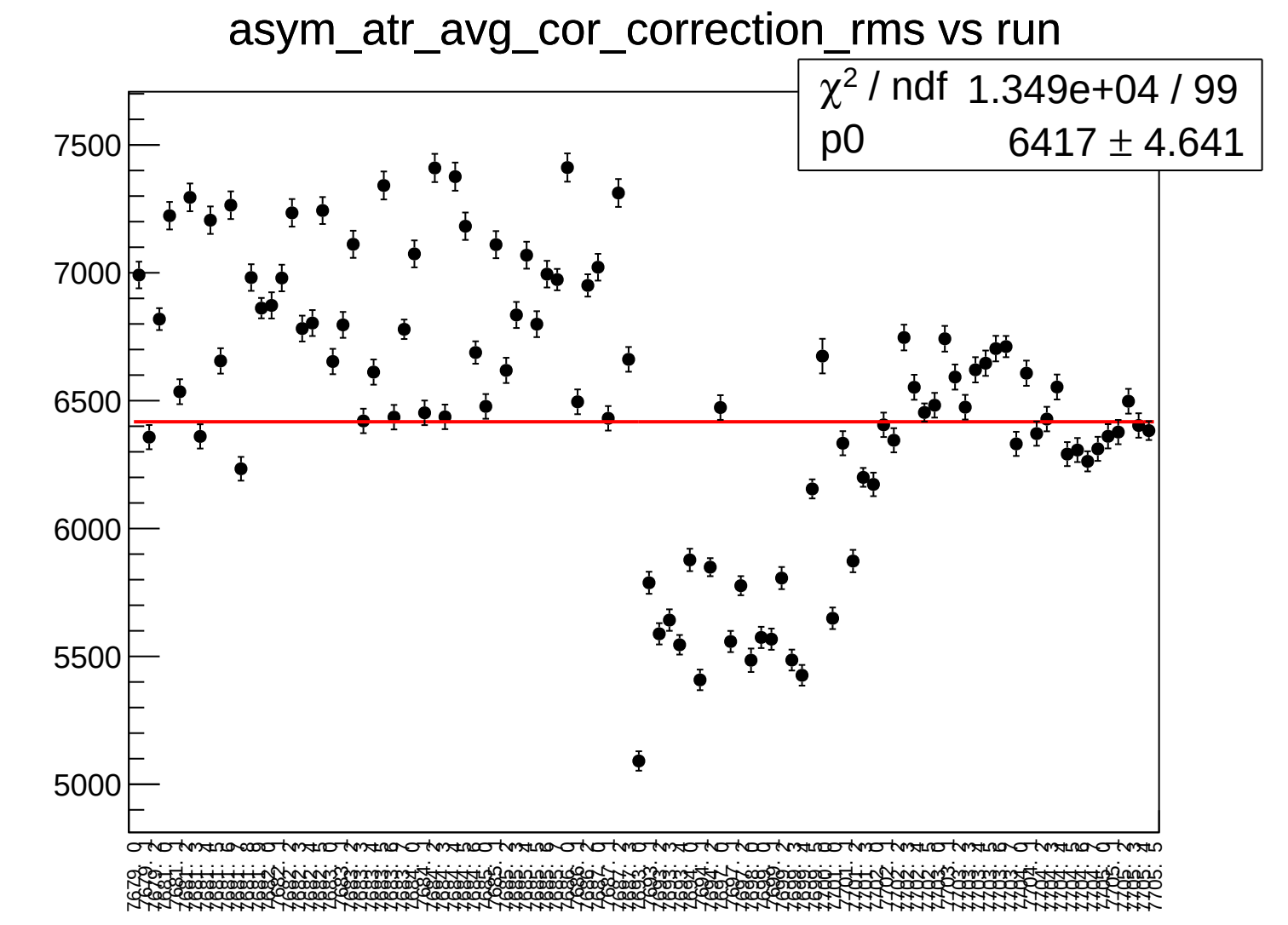

cor_asym_atr_avg_mean vs run
χ² / ndf 76.17 / 99
p0 −742.4 ± 2110
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −72.91
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

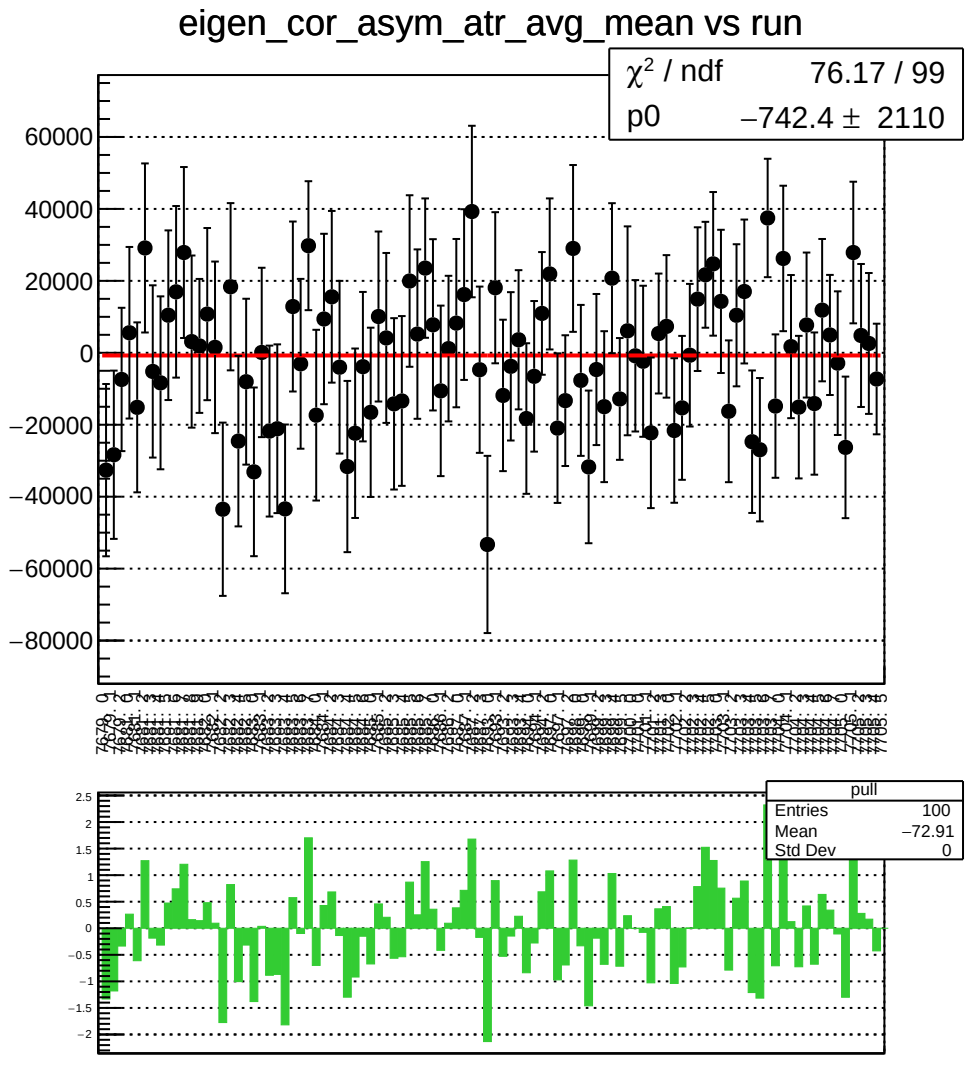

pull1D
Entries 100
Mean −0.02297
Std Dev 0.8724
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

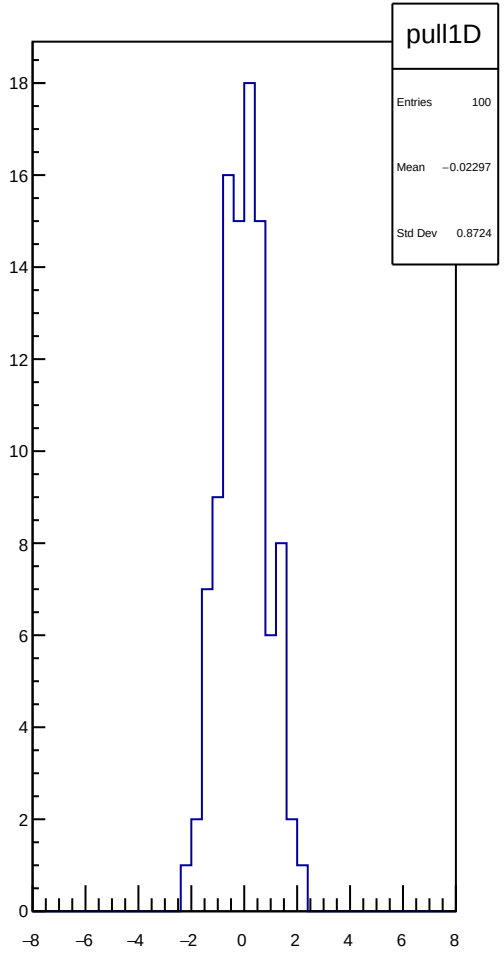

cor_asym_atr_avg_rms vs run
χ² / ndf 1.236e+04 / 99
p0 2063 ± 1.492
2400
2300
2200
2100
2000
1900
1800

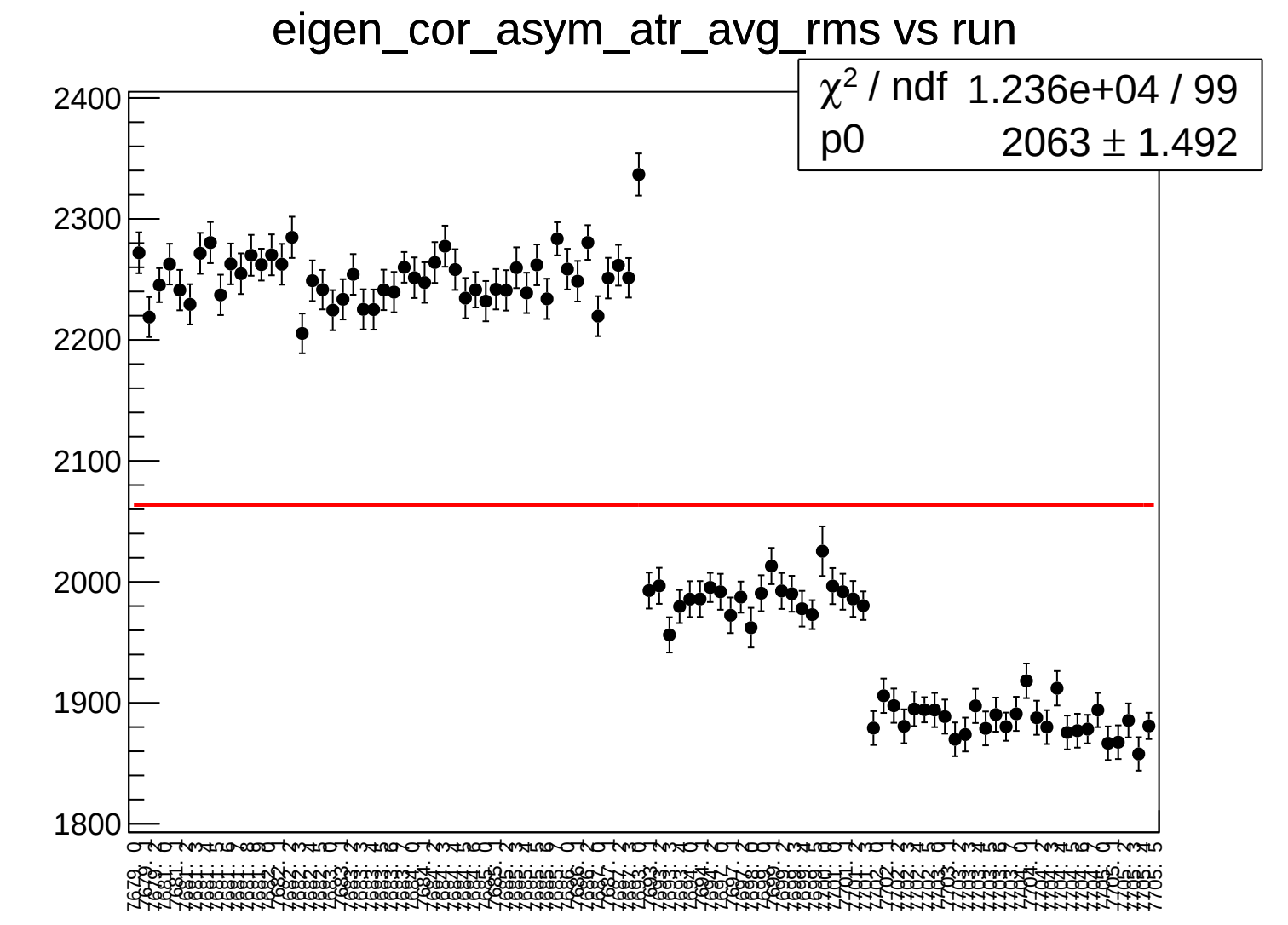

asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 102.5 / 99
p0 9834 ± 6564
200
100
0
−100
−200
−300
pull
Entries 100
Mean 7364
Std Dev 0
2
1
0
−1
−2
−3

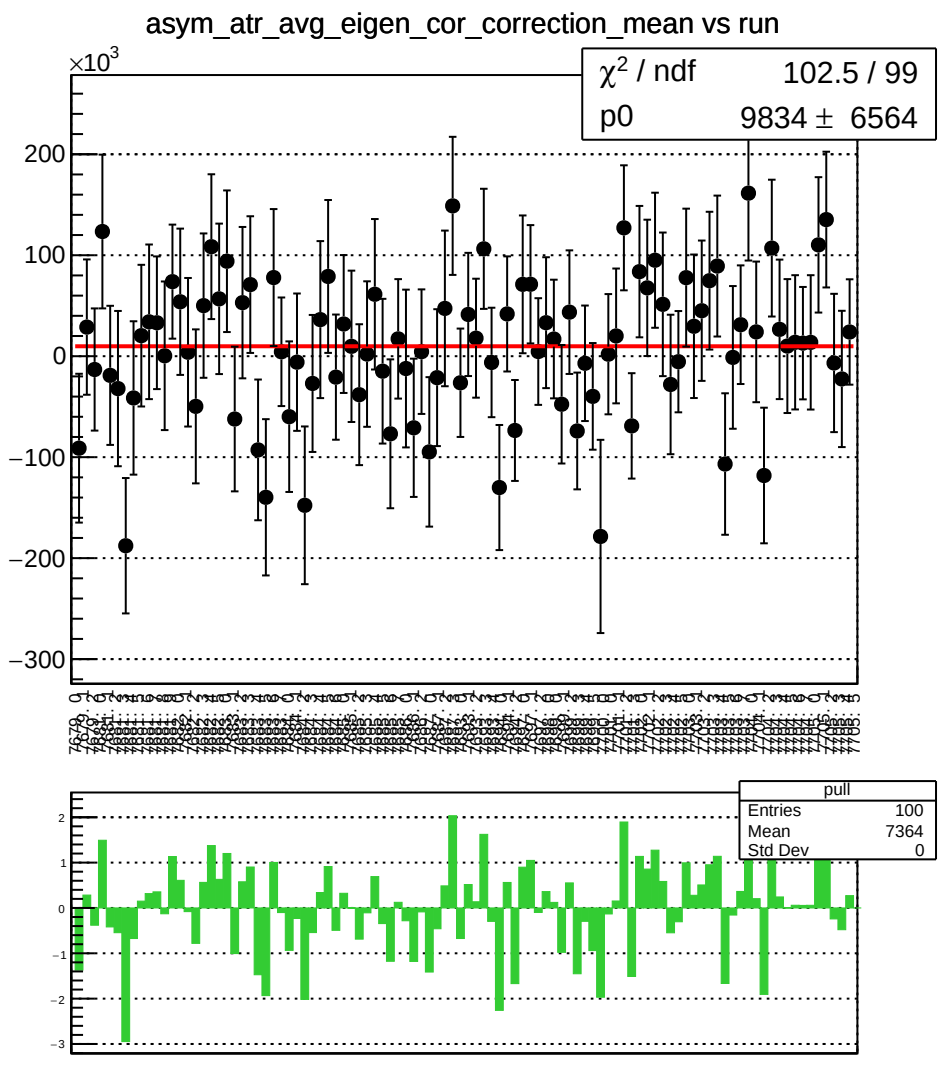

pull1D
Entries 100
Mean 0.0006296
Std Dev 1.012
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

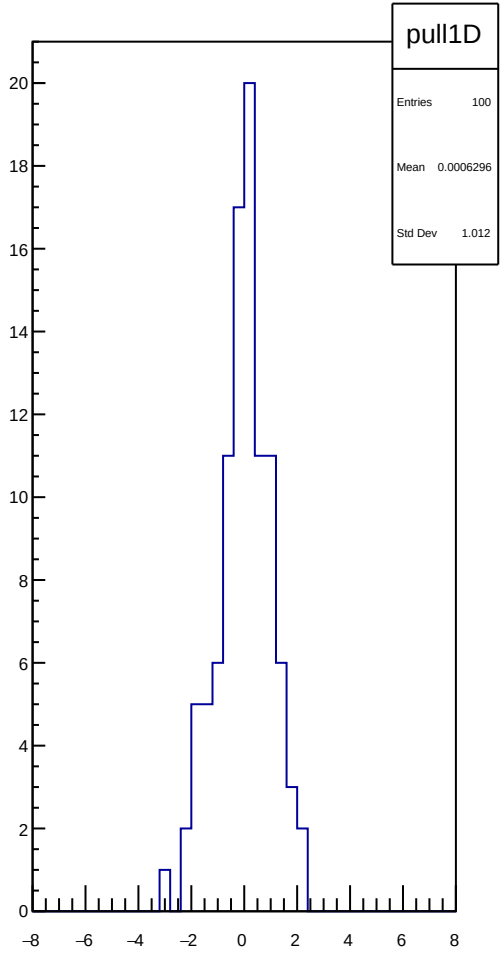

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 1.349e+04 / 99
p0 6417 ± 4.641
7500
7000
6500
6000
5500
5000

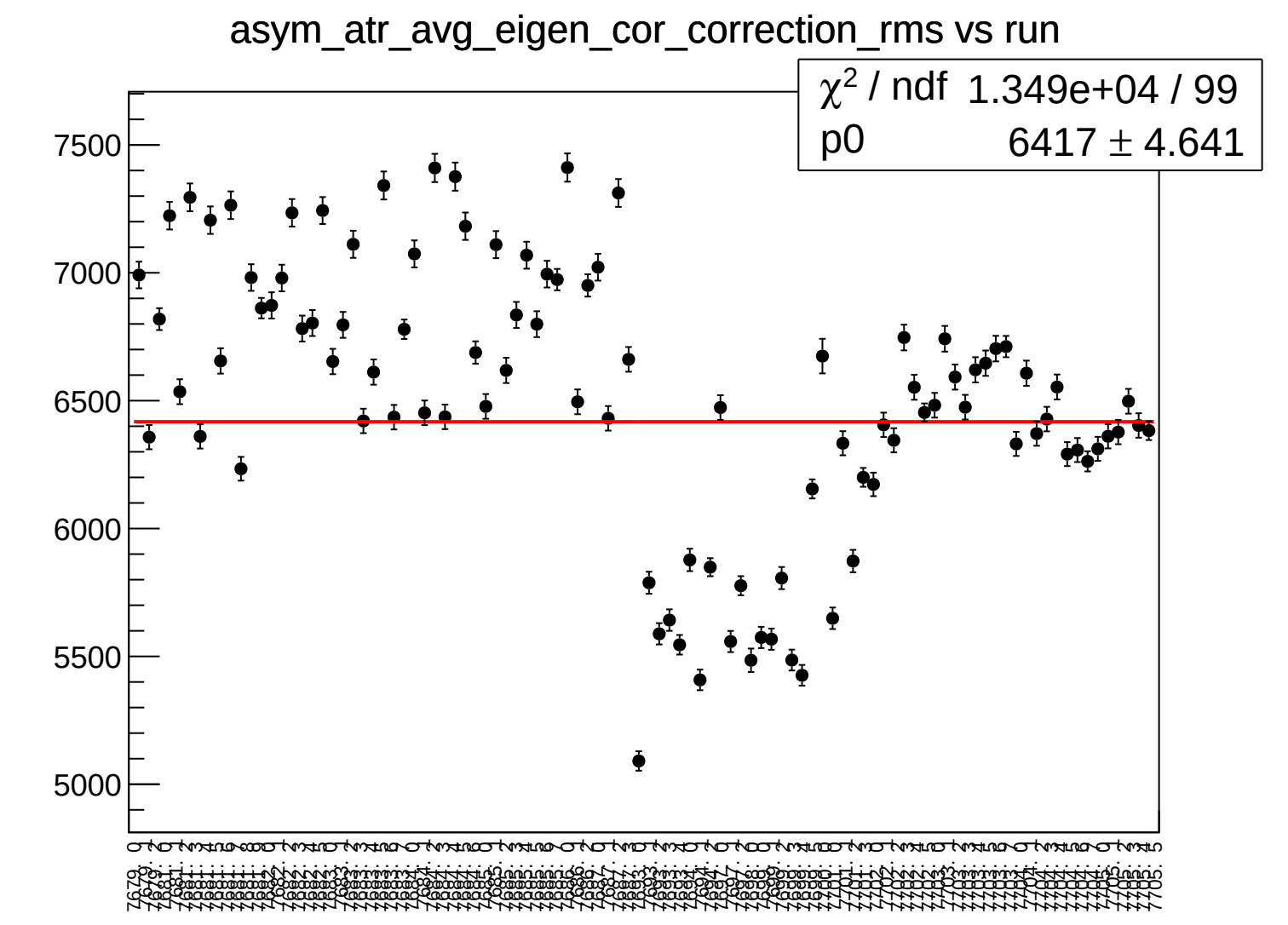

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 76.17 / 99
p0 −742.4 ± 2110
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −72.91
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

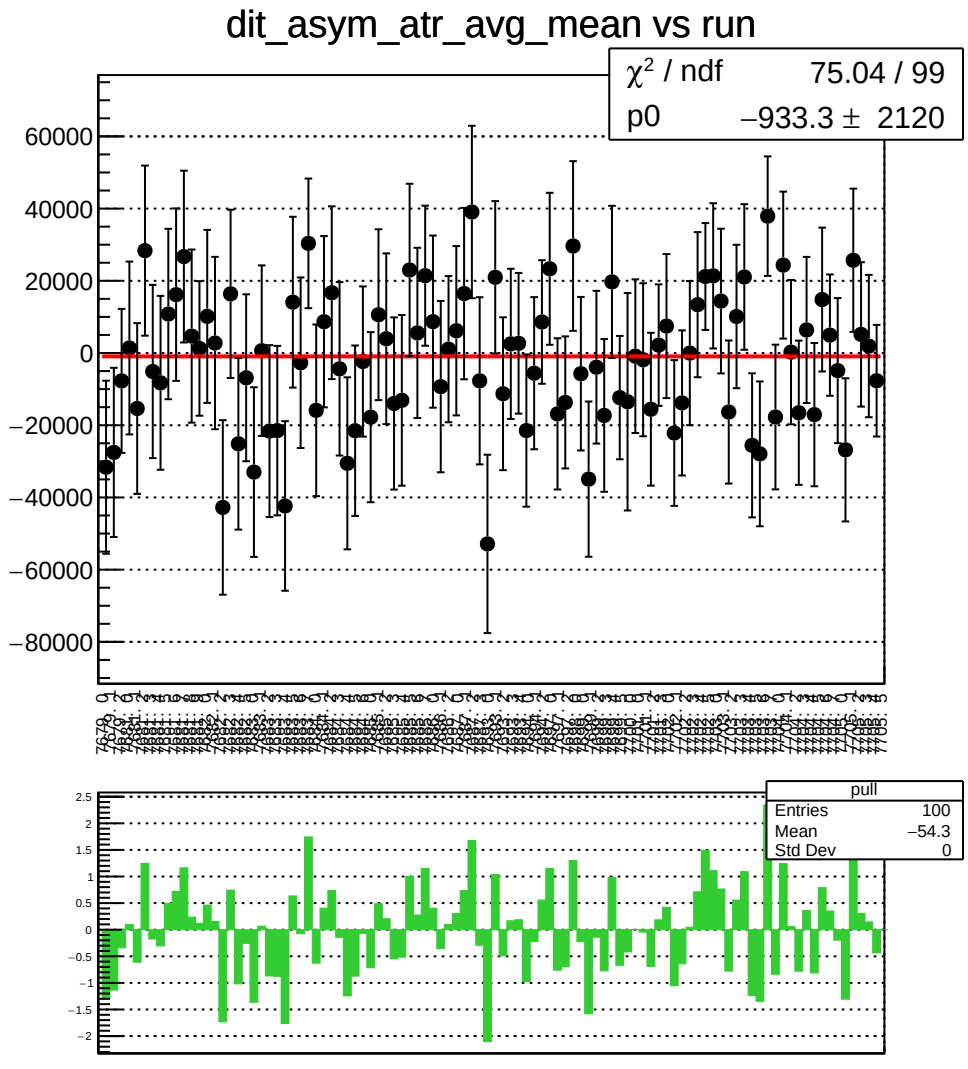

pull1D
Entries 100
Mean −0.02297
Std Dev 0.8724
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

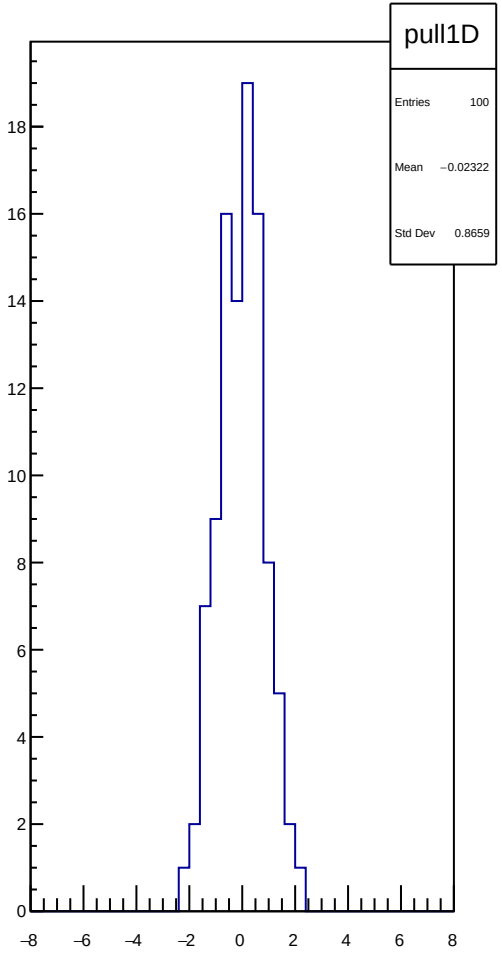

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 1.236e+04 / 99
p0 2063 ± 1.492
2400
2300
2200
2100
2000
1900
1800

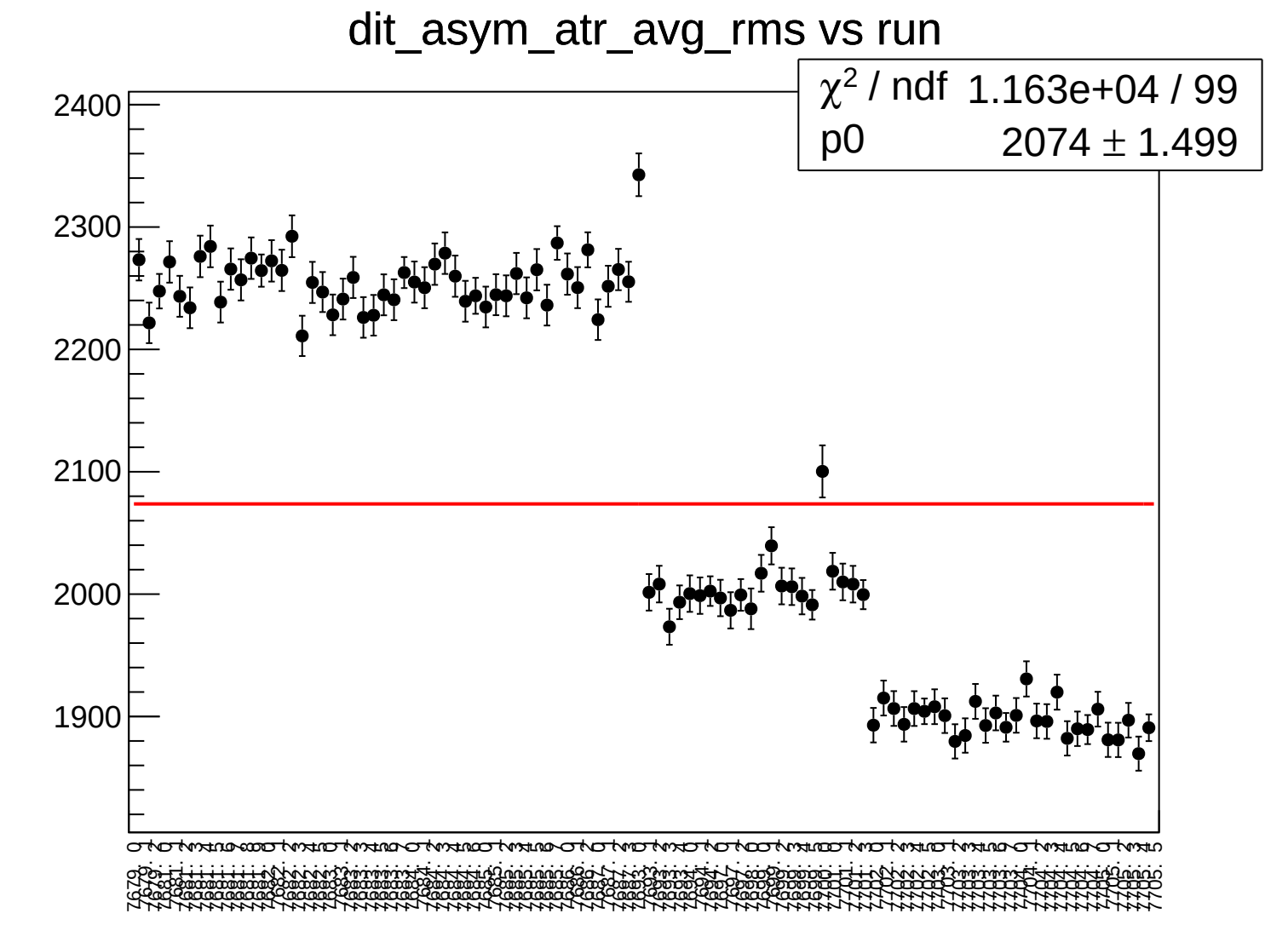

asym_atr_avg_eigen_cor_correction_mean vs run
χ² / ndf 102.5 / 99
p0 9834 ± 6564
×10³
200
100
0
−100
−200
−300
pull
Entries 100
Mean 7364
Std Dev 0
2
1
0
−1
−2
−3

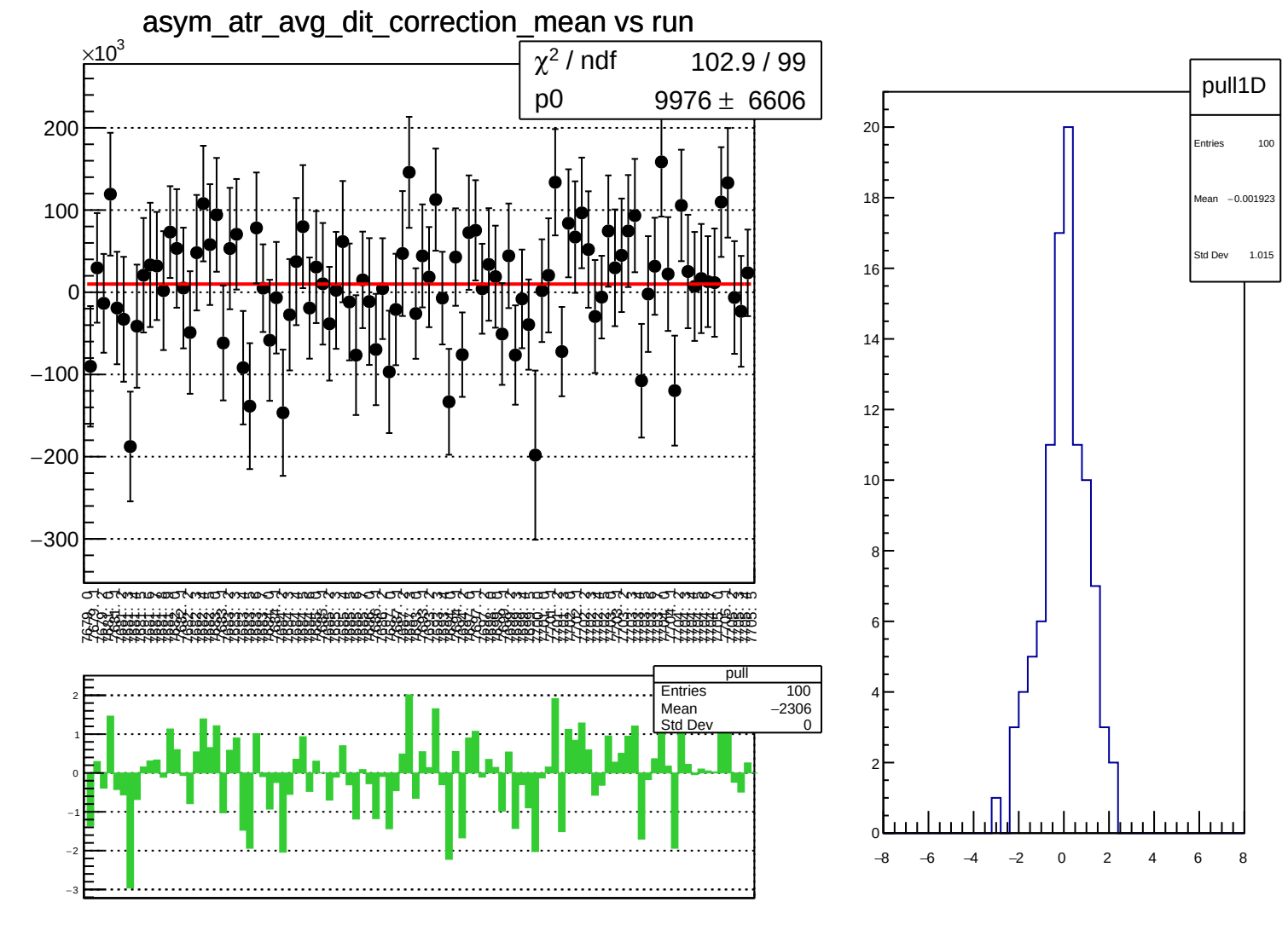

pull1D
Entries 100
Mean 0.0006296
Std Dev 1.012
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

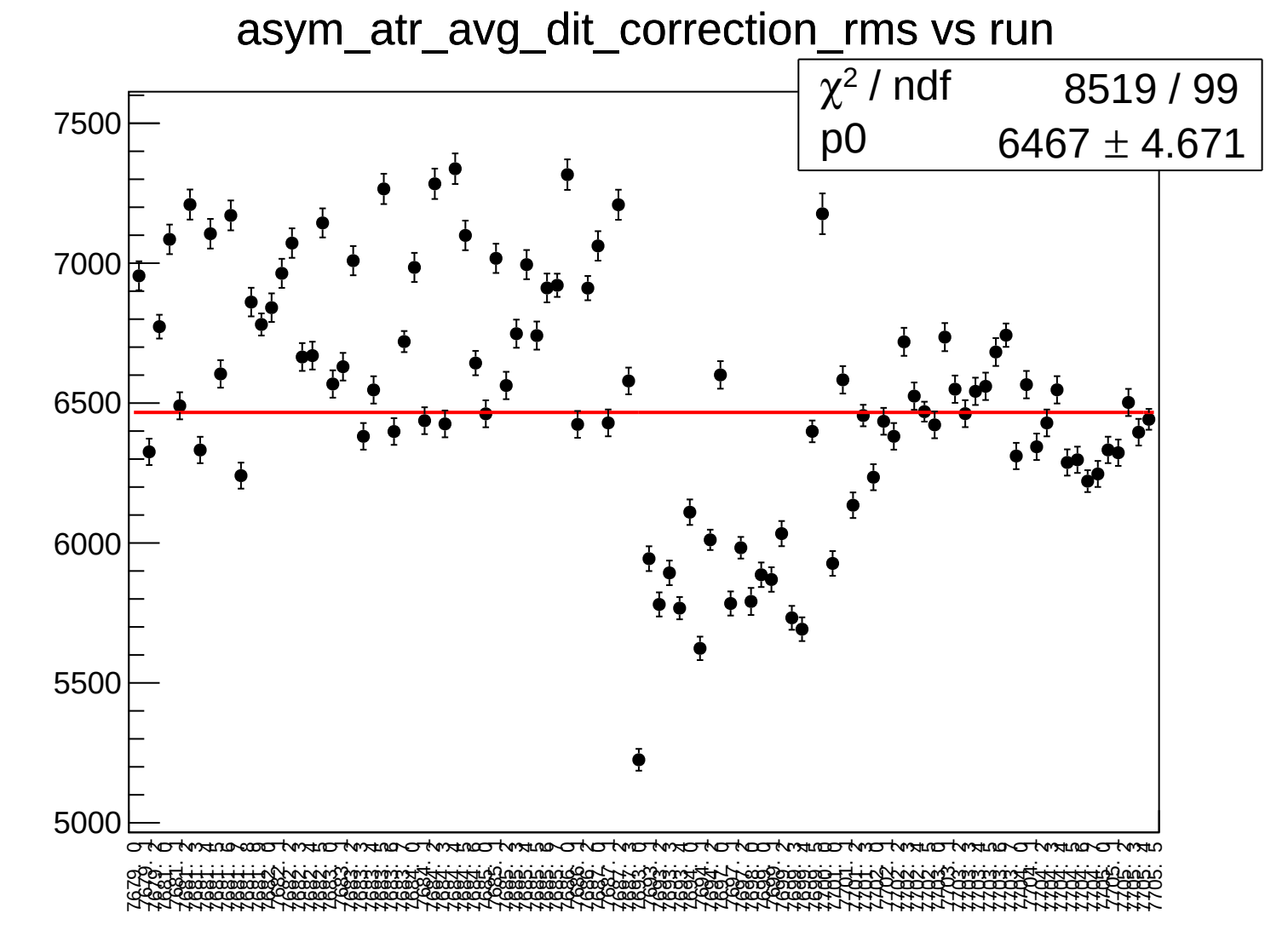

asym_atr_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 1.349e+04 / 99
p0 6417 ± 4.641
7500
7000
6500
6000
5500
5000

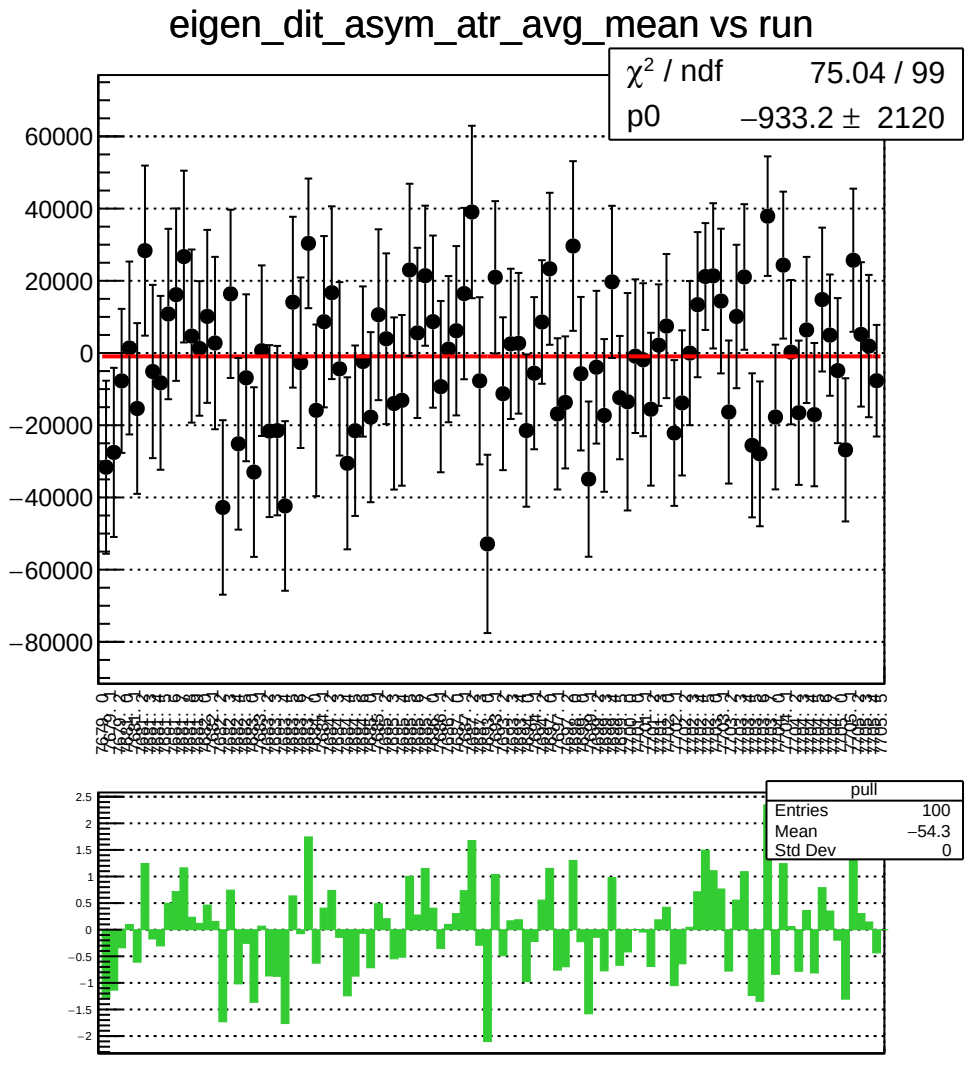

dit_asym_atr_avg_mean vs run
χ² / ndf 75.04 / 99
p0 −933.3 ± 2120
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −54.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

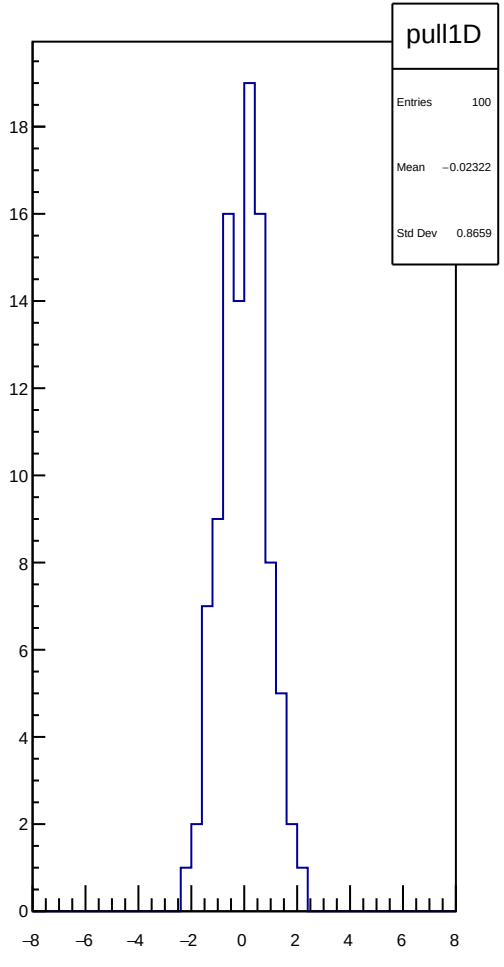

pull1D
Entries 100
Mean −0.02322
Std Dev 0.8659
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

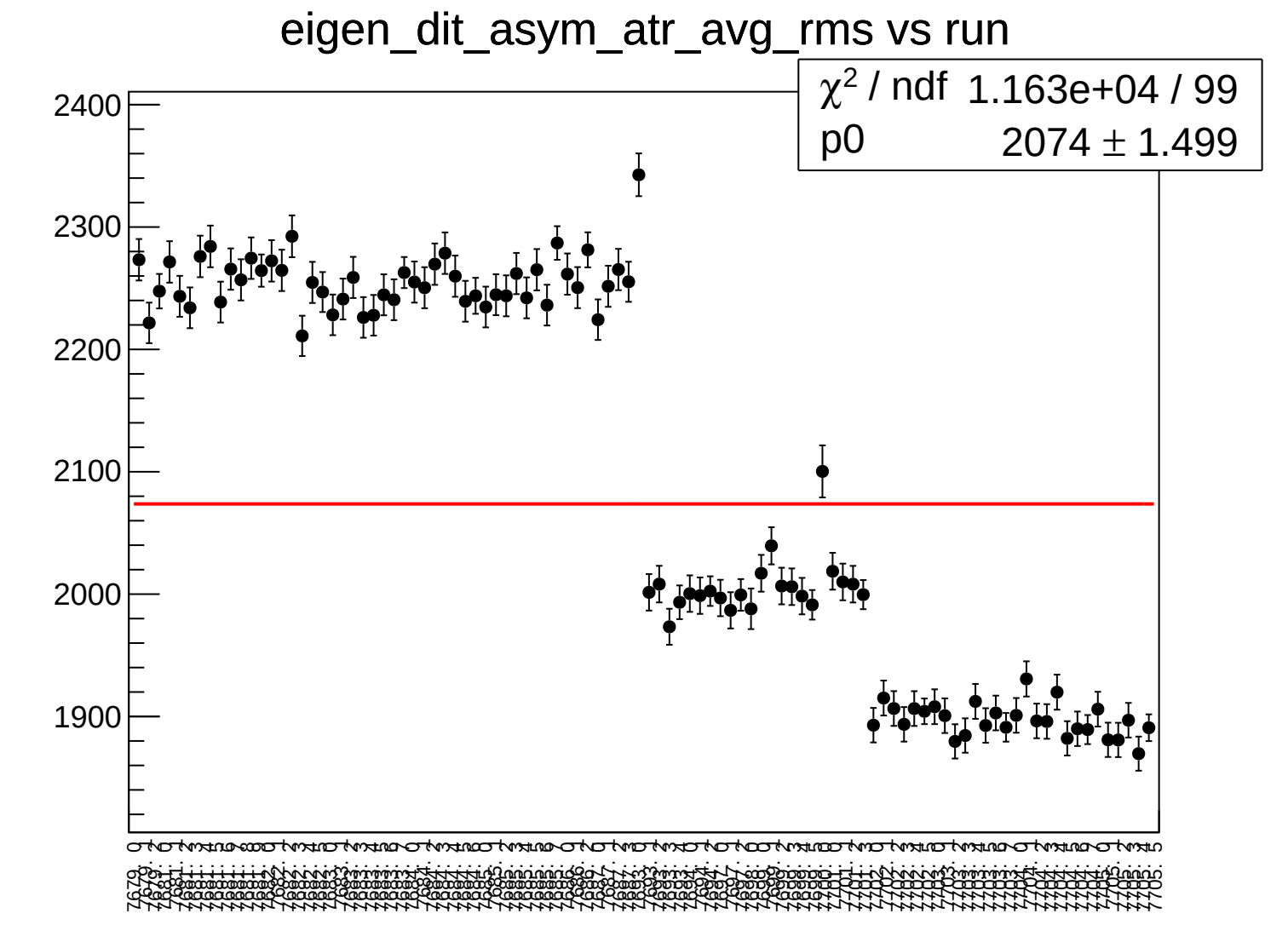

dit_asym_atr_avg_rms vs run
χ² / ndf 1.163e+04 / 99
p0 2074 ± 1.499
2400
2300
2200
2100
2000
1900

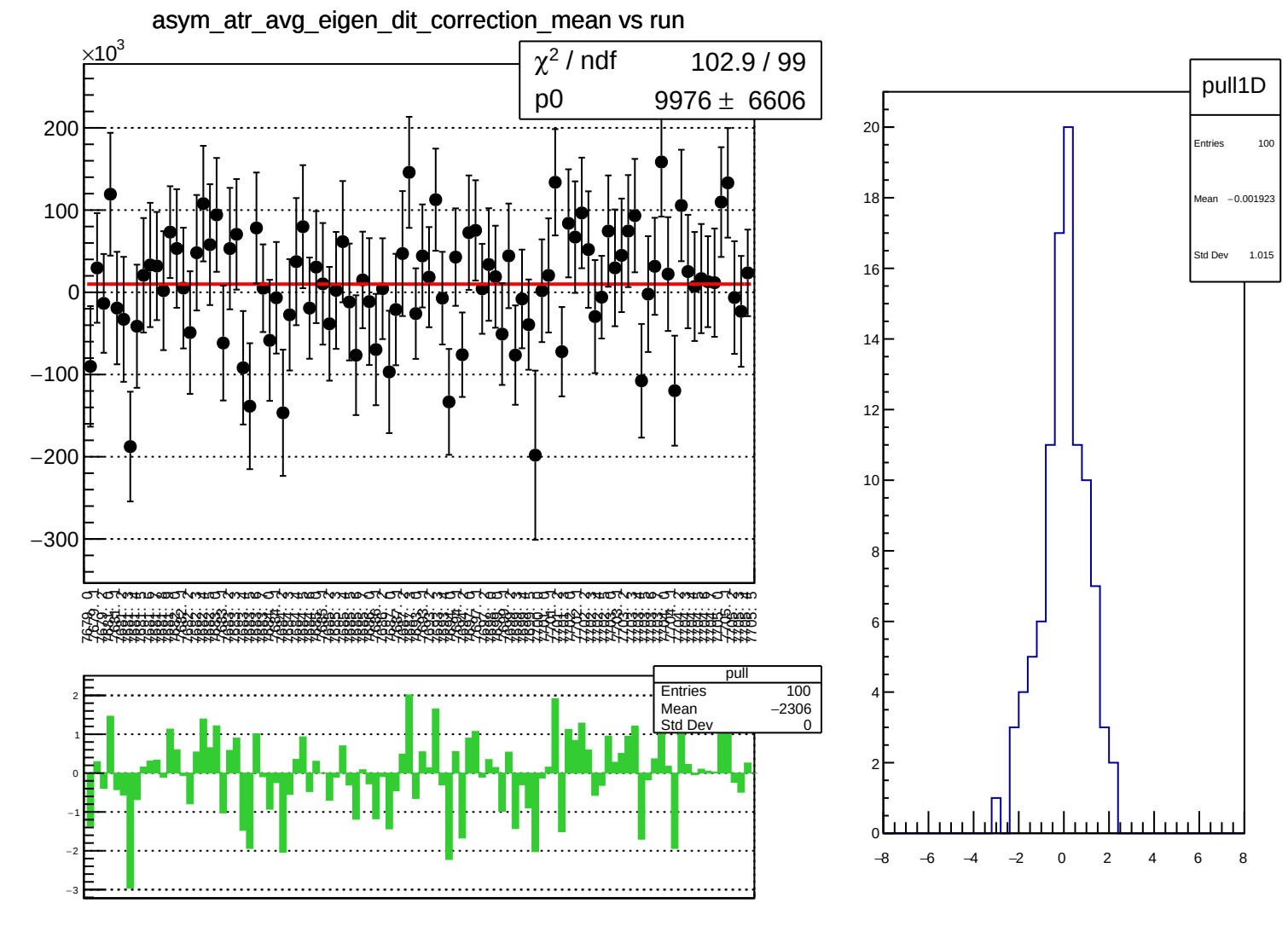

asym_atr_avg_dit_correction_mean vs run
χ² / ndf 102.9 / 99
p0 9976 ± 6606
×10³
200
100
0
−100
−200
−300
pull
Entries 100
Mean −2306
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean −0.001923
Std Dev 1.015
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

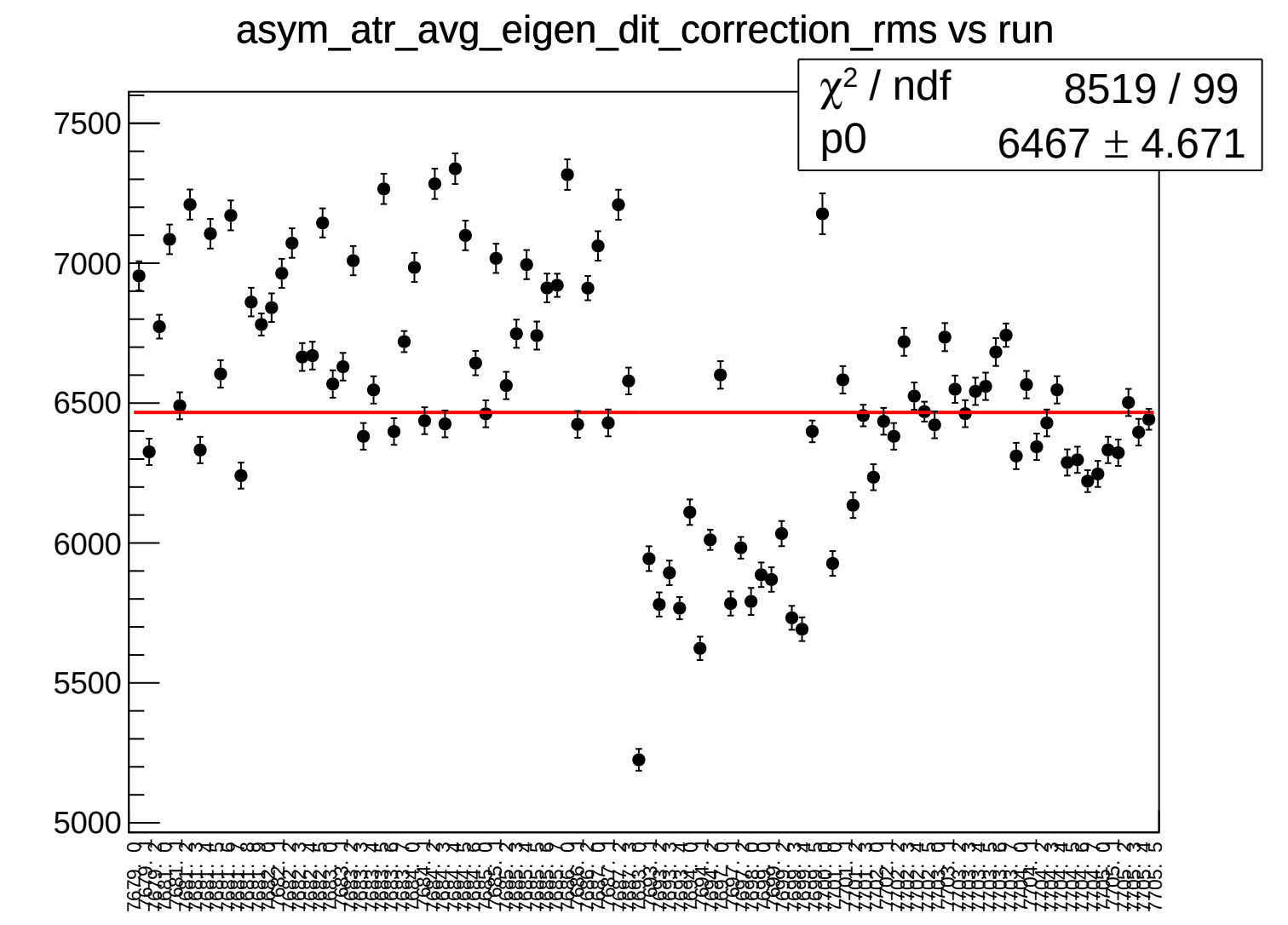

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 8519 / 99
p0 6467 ± 4.671
7500
7000
6500
6000
5500
5000

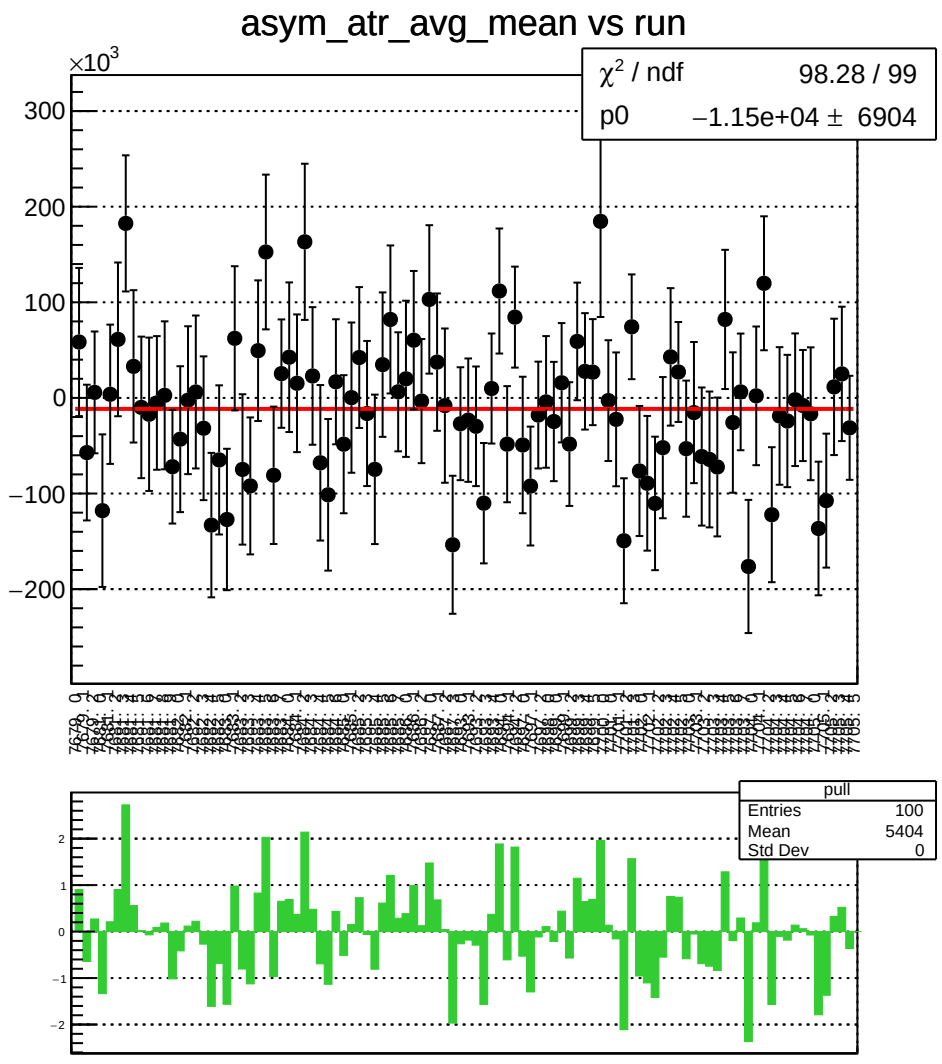

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 75.04 / 99
p0 −933.2 ± 2120
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −54.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

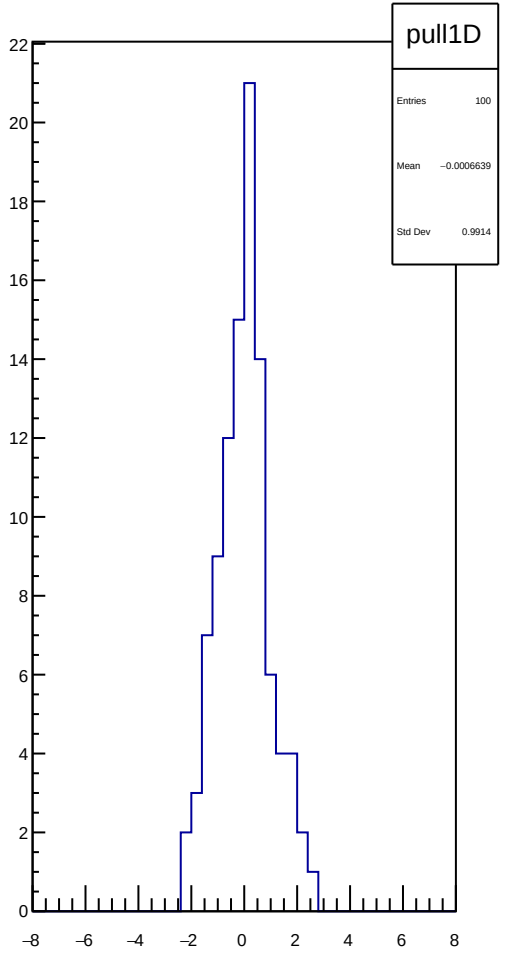

pull1D
Entries 100
Mean −0.02322
Std Dev 0.8659
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

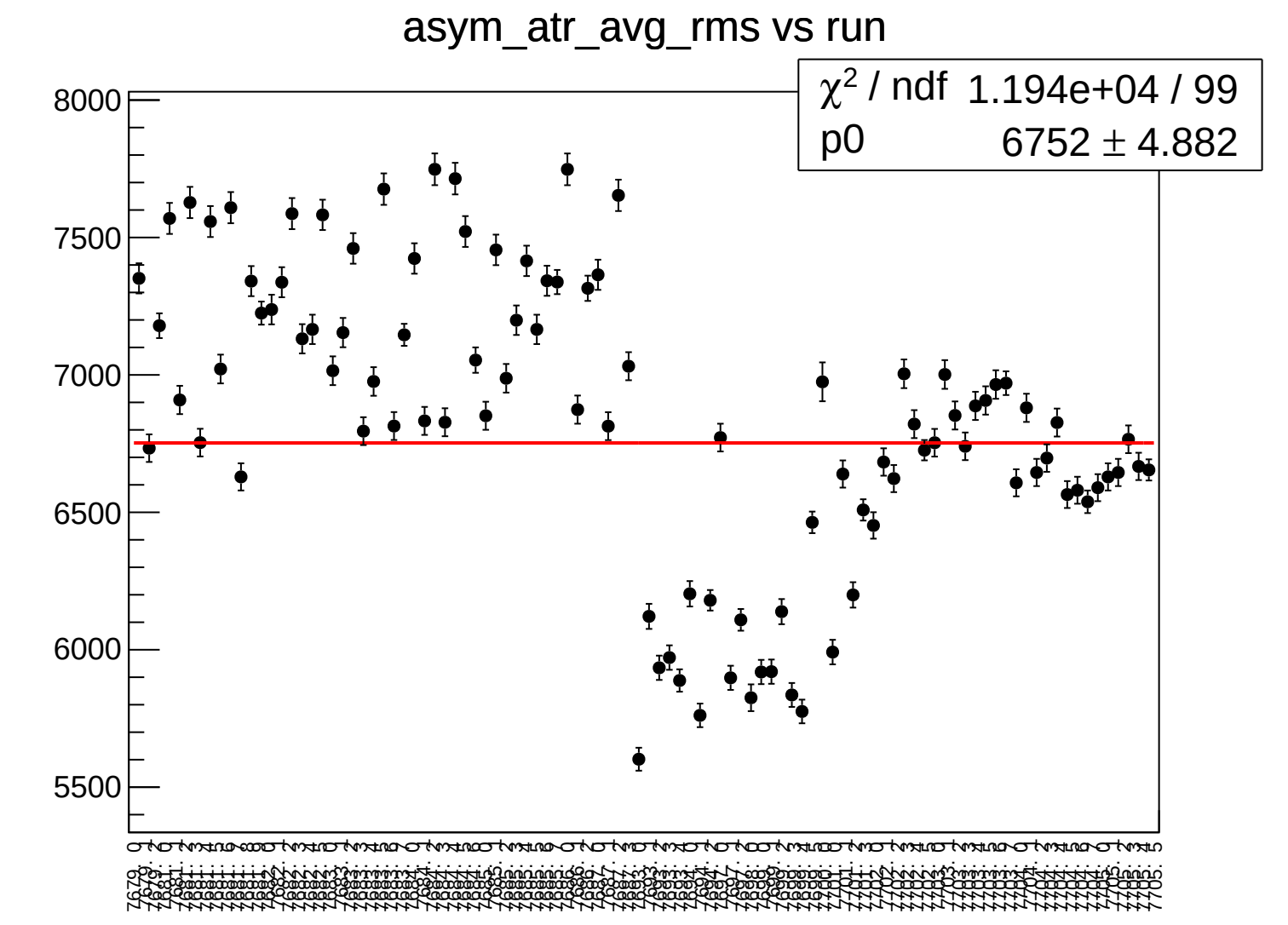

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 1.163e+04 / 99
p0 2074 ± 1.499
2400
2300
2200
2100
2000
1900

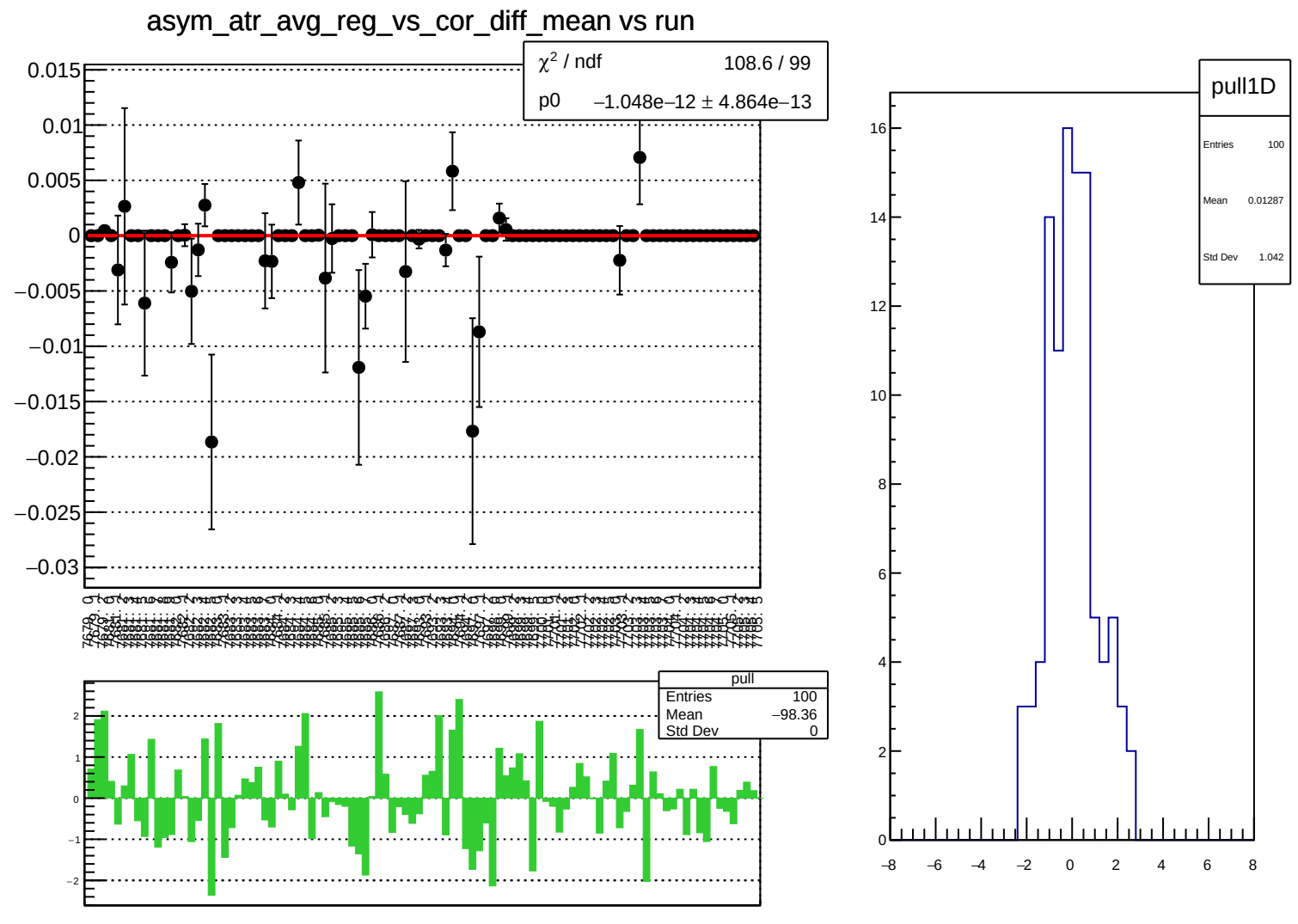

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 102.9 / 99
p0 9976 ± 6606
200
100
0
−100
−200
−300
pull
Entries 100
Mean −2306
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean −0.001923
Std Dev 1.015
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

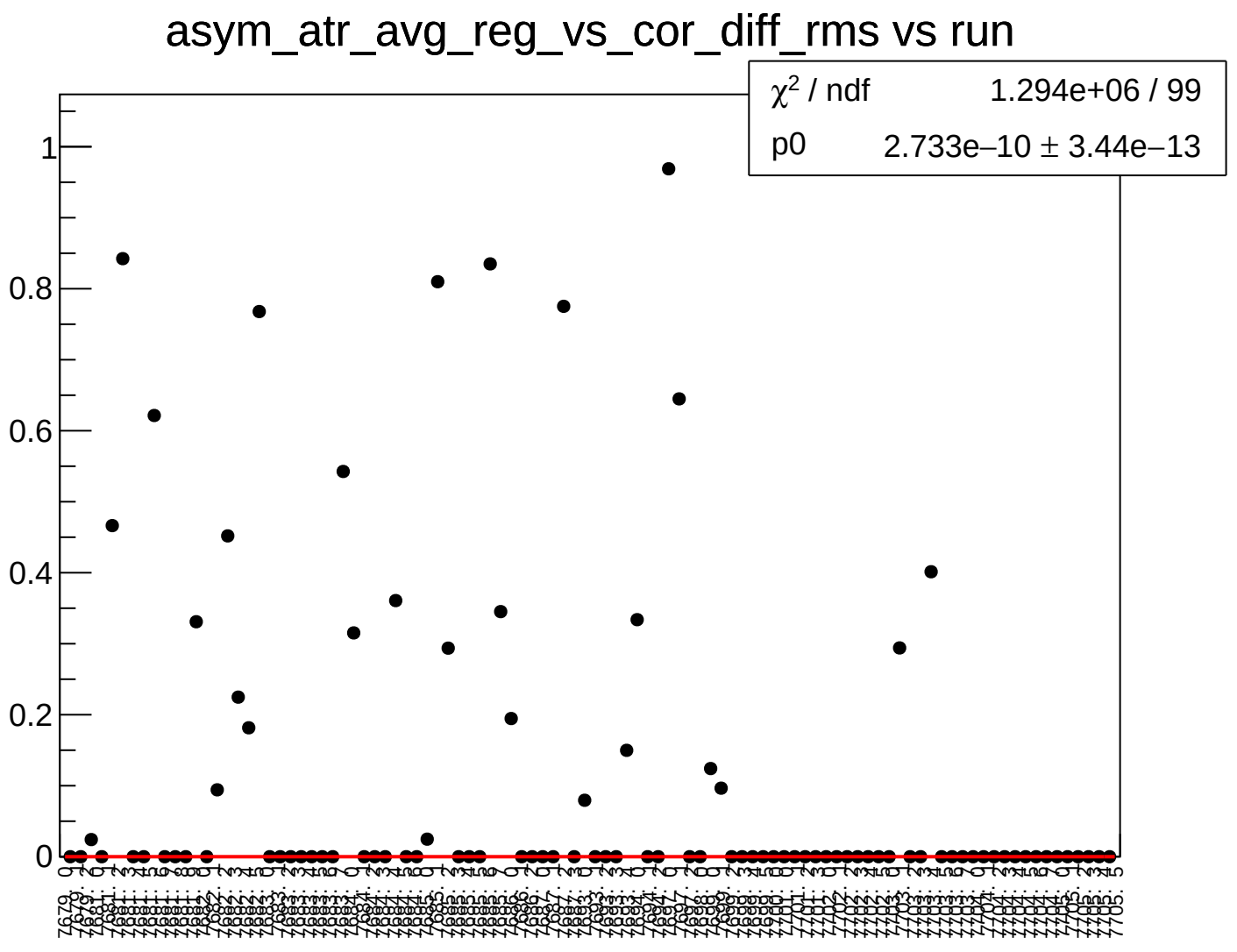

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 8519 / 99
p0 6467 ± 4.671
7500
7000
6500
6000
5500
5000

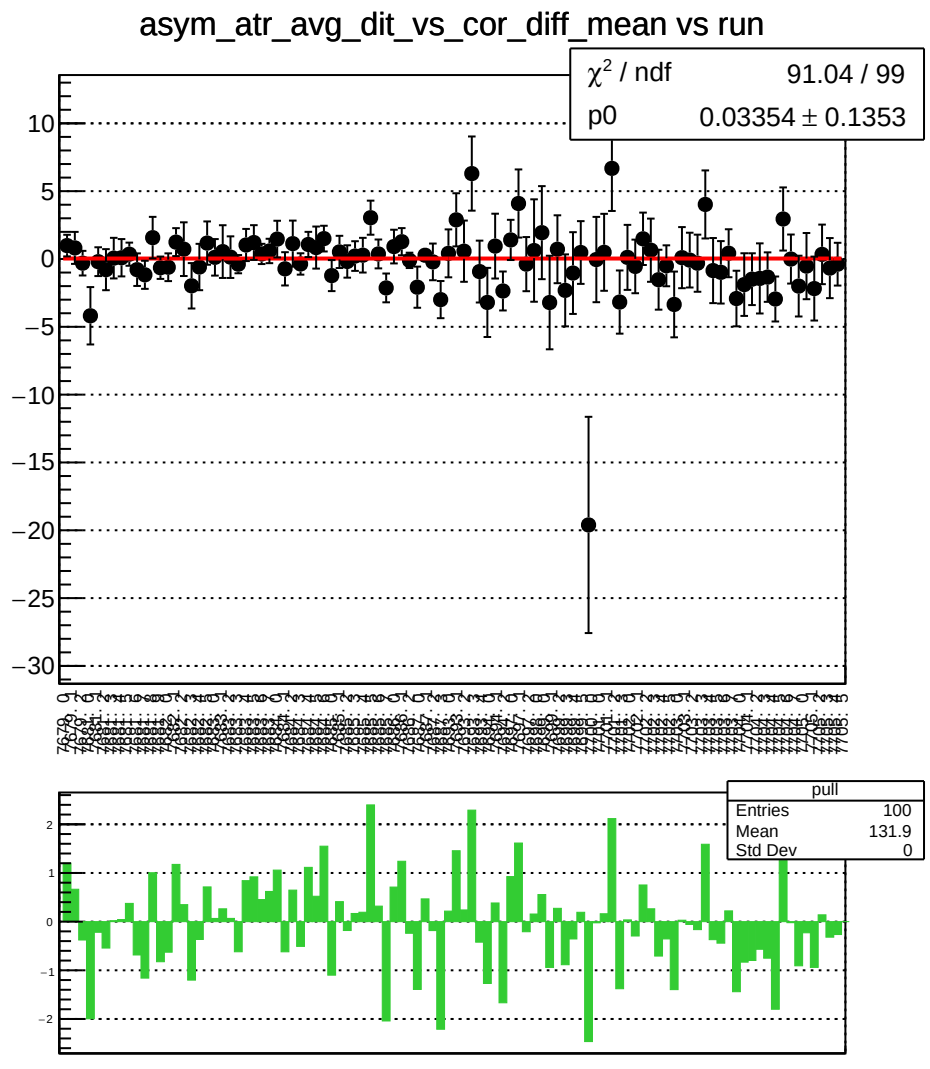

asym_atr_avg_mean vs run
×10^3
χ² / ndf 98.28 / 99
p0 −1.15e+04 ± 6904
pull
Entries 100
Mean 5404
Std Dev 0

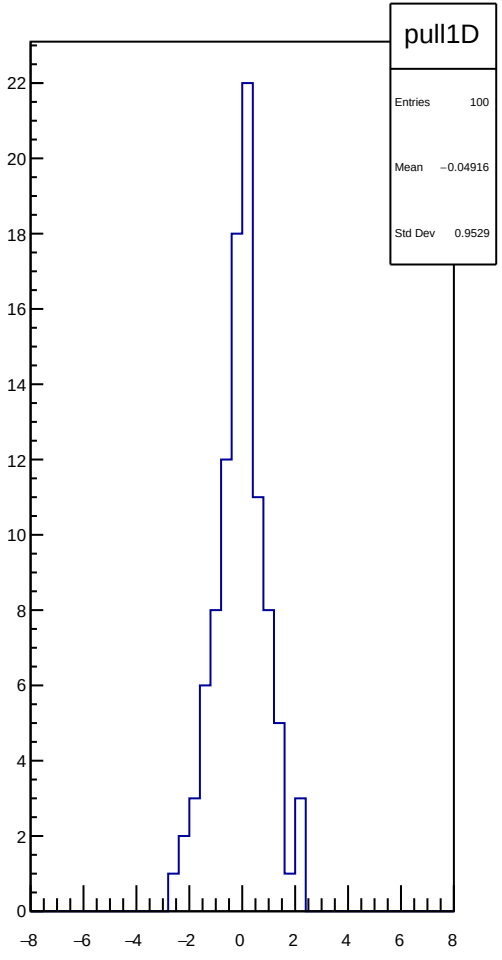

pull1D
Entries 100
Mean −0.0006639
Std Dev 0.9914

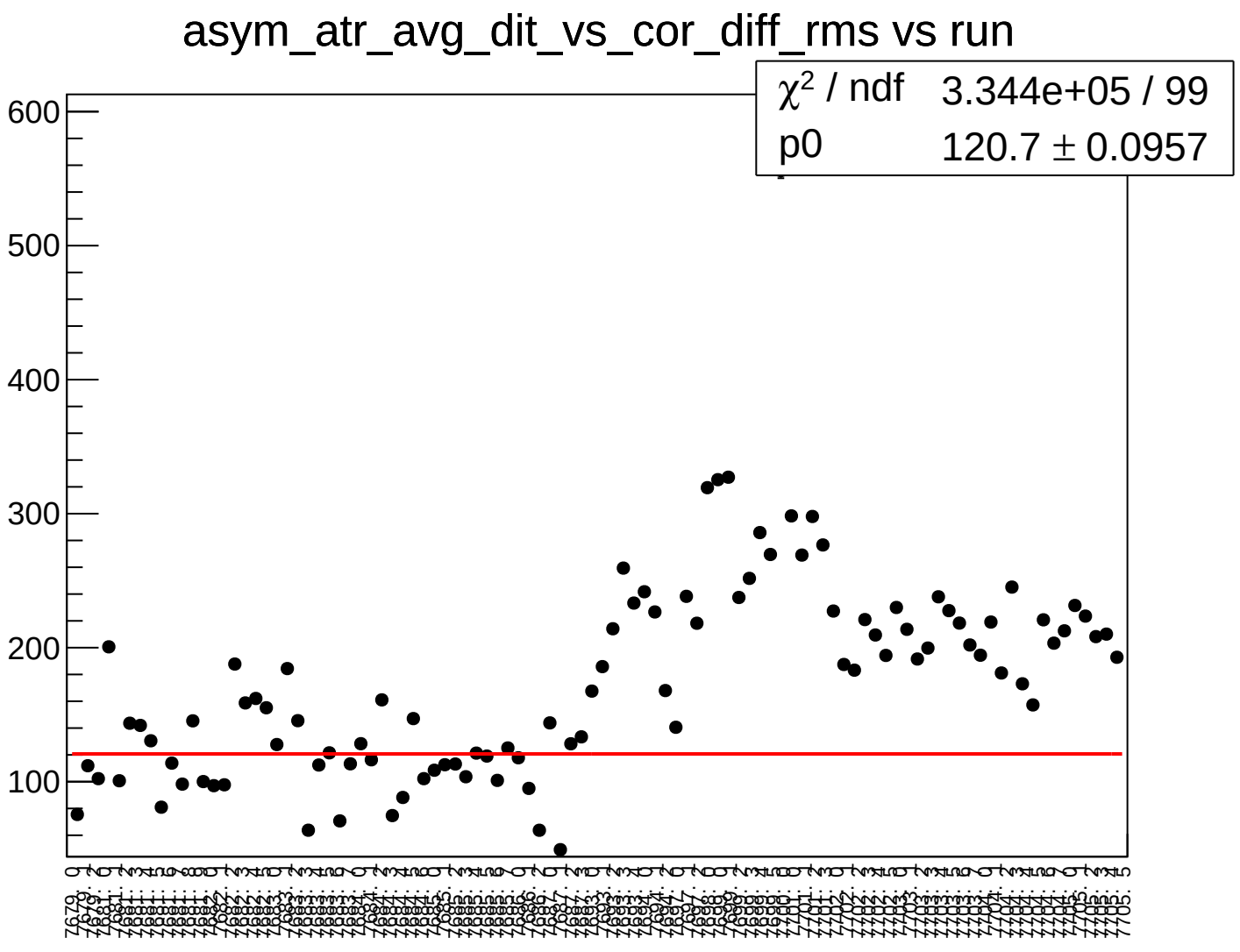

asym_atr_avg_rms vs run
χ² / ndf 1.194e+04 / 99
p0 6752 ± 4.882
8000
7500
7000
6500
6000
5500

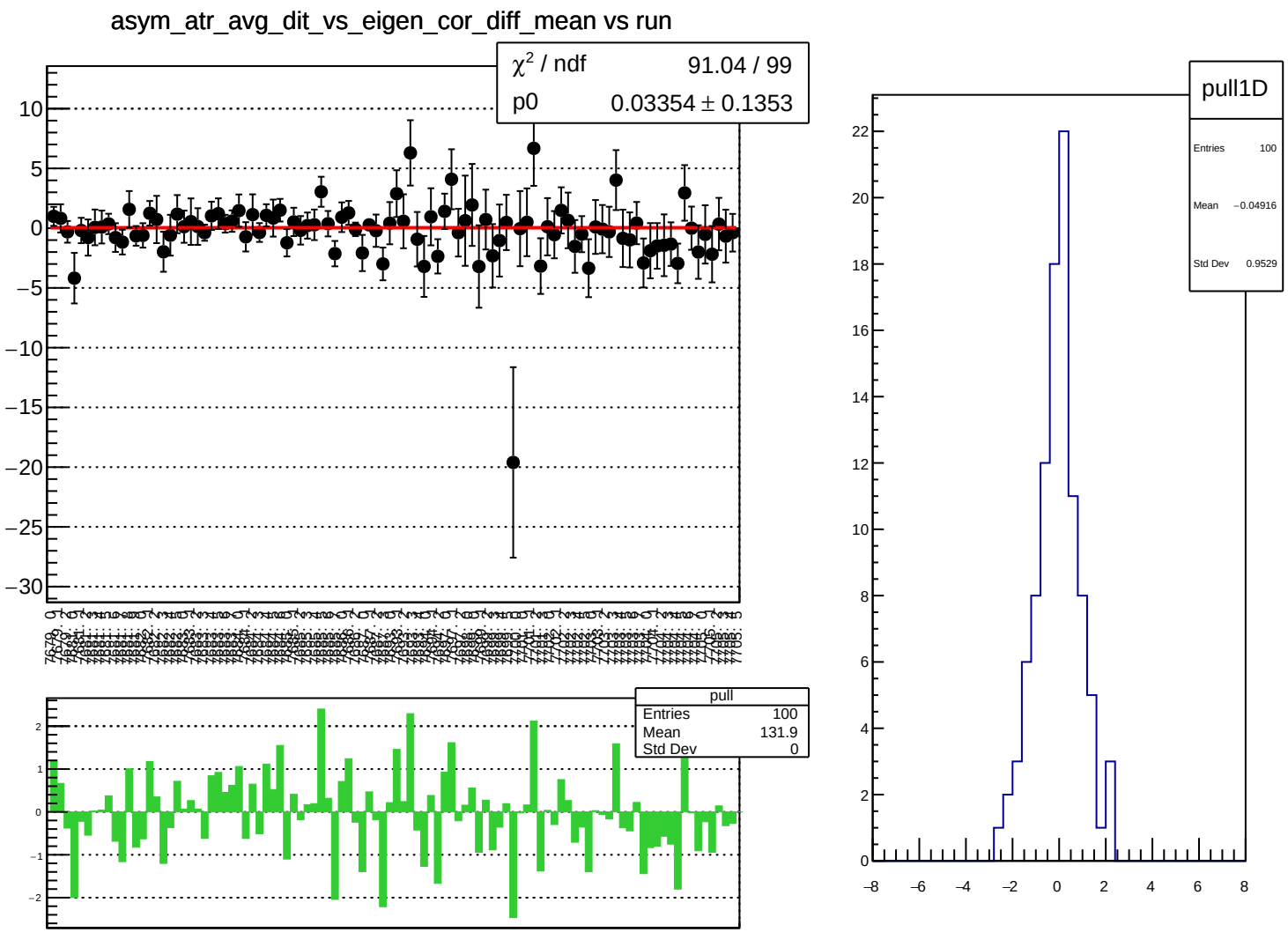

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 108.6 / 99
p0 −1.048e−12 ± 4.864e−13
pull
Entries 100
Mean −98.36
Std Dev 0
pull1D
Entries 100
Mean 0.01287
Std Dev 1.042

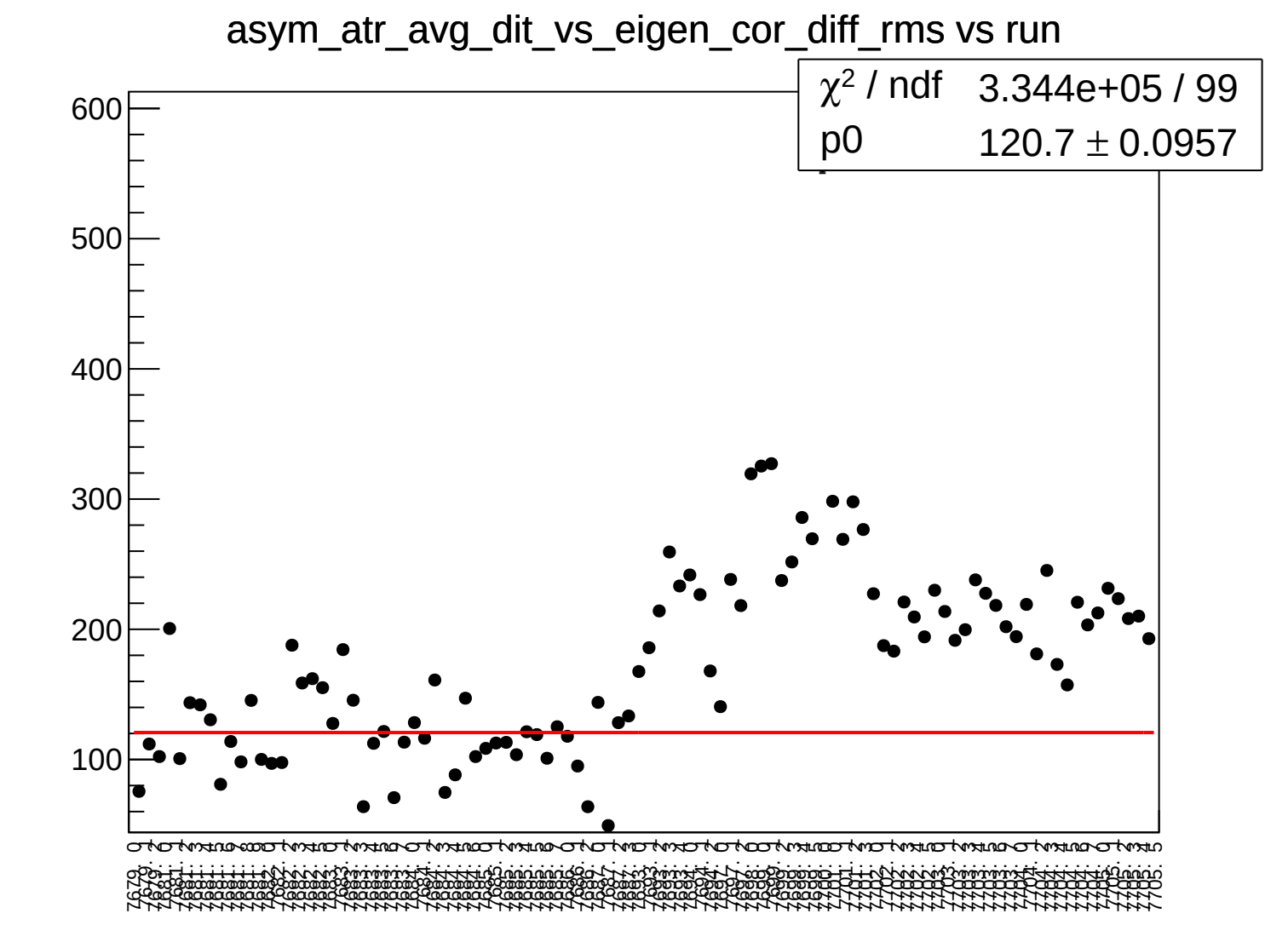

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.294e+06 / 99
p0 2.733e−10 ± 3.44e−13
1
0.8
0.6
0.4
0.2
0

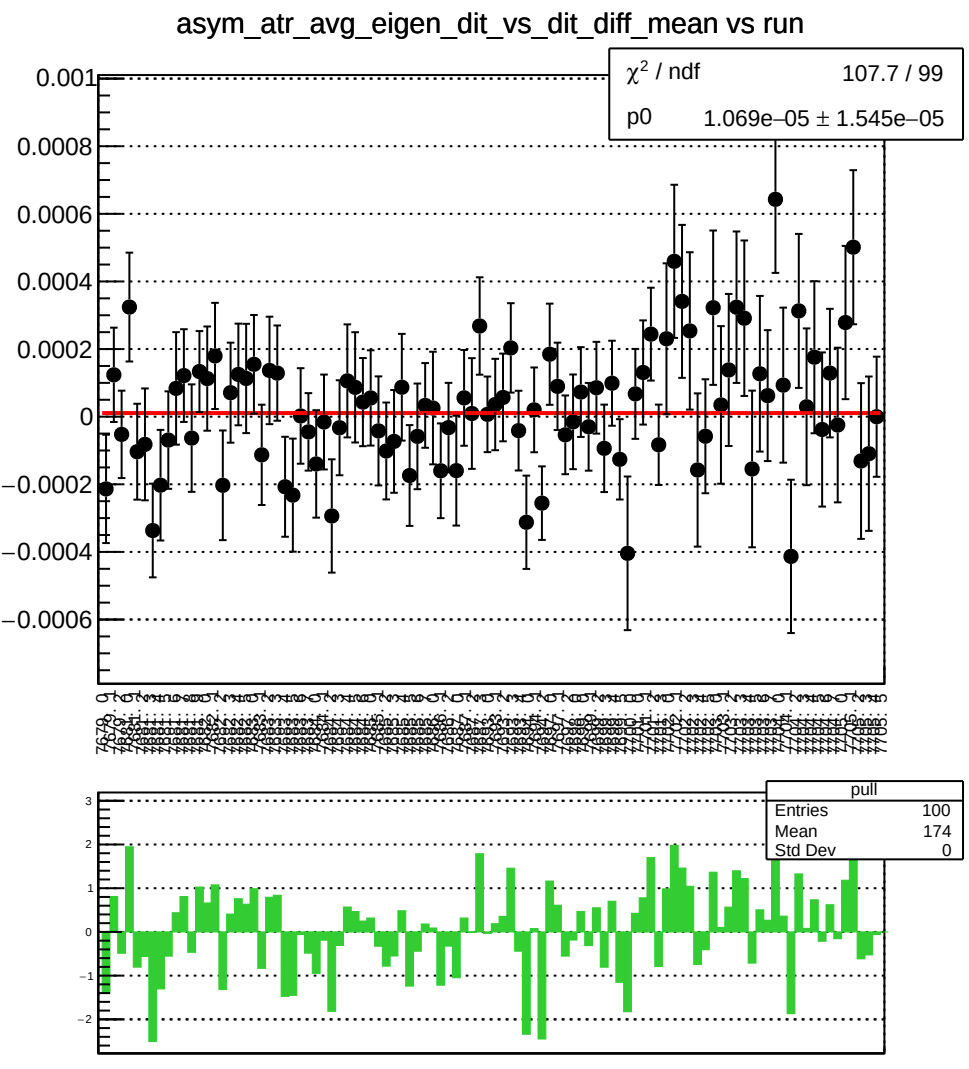

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.04 / 99
p0 0.03354 ± 0.1353
pull
Entries 100
Mean 131.9
Std Dev 0

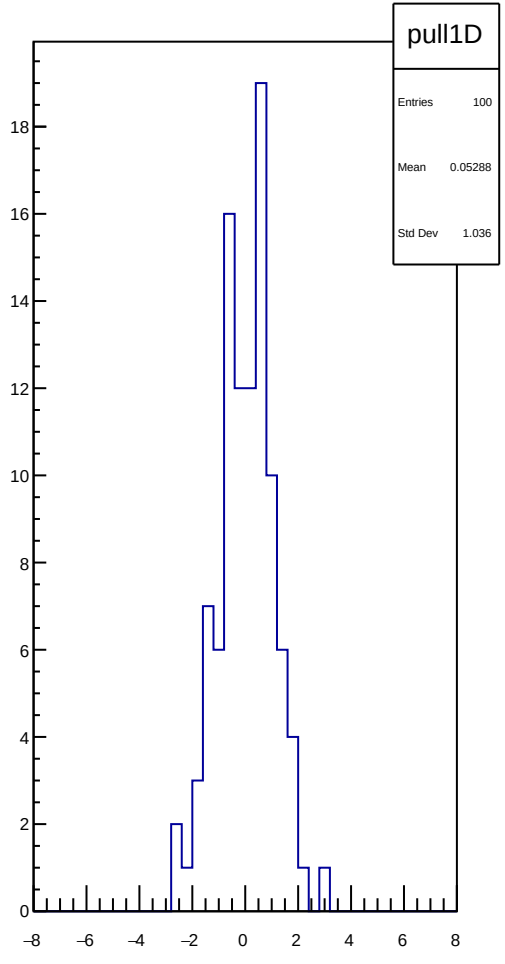

pull1D
Entries 100
Mean −0.04916
Std Dev 0.9529

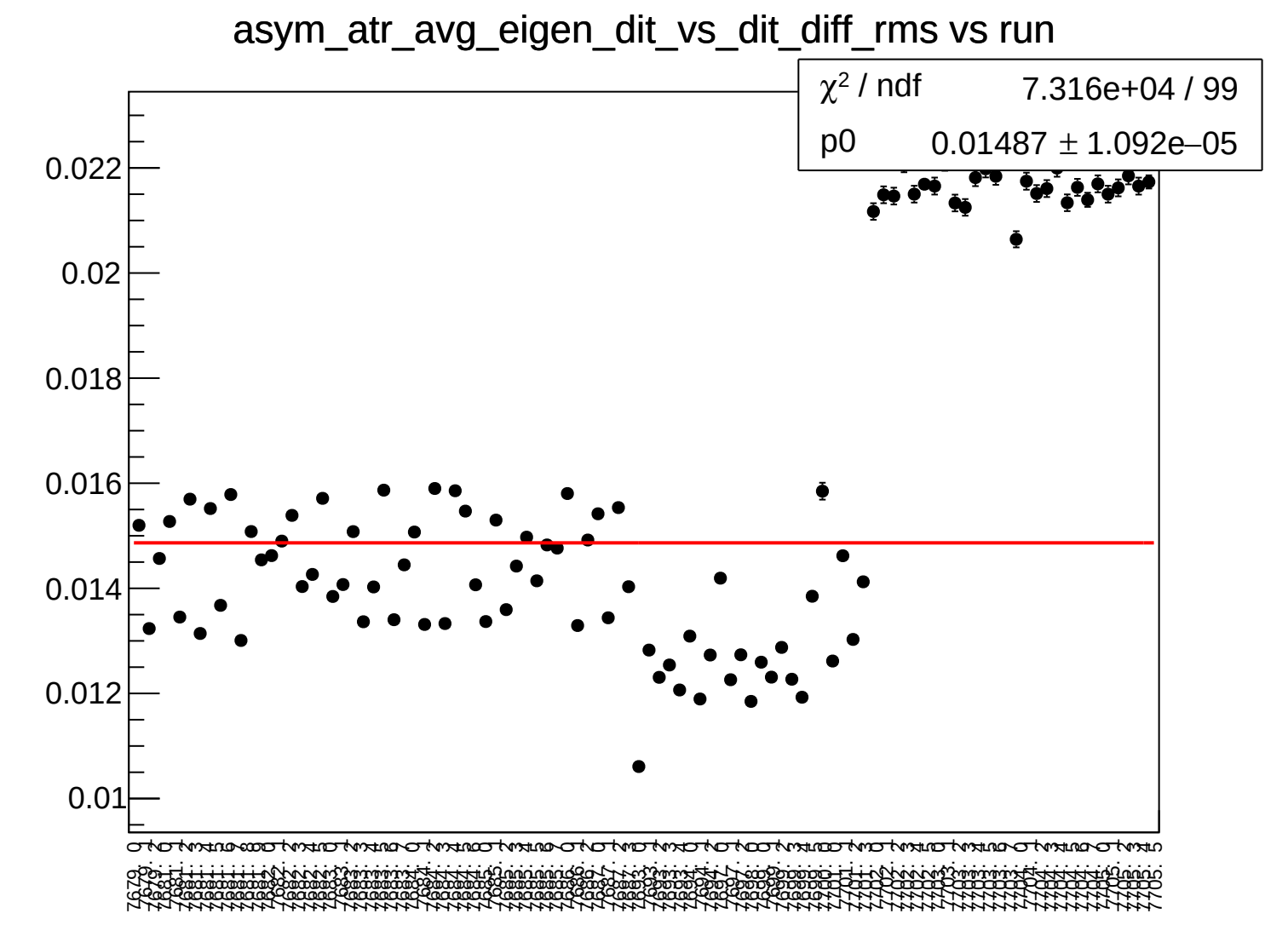

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.344e+05 / 99
p0 120.7 ± 0.0957
600
500
400
300
200
100

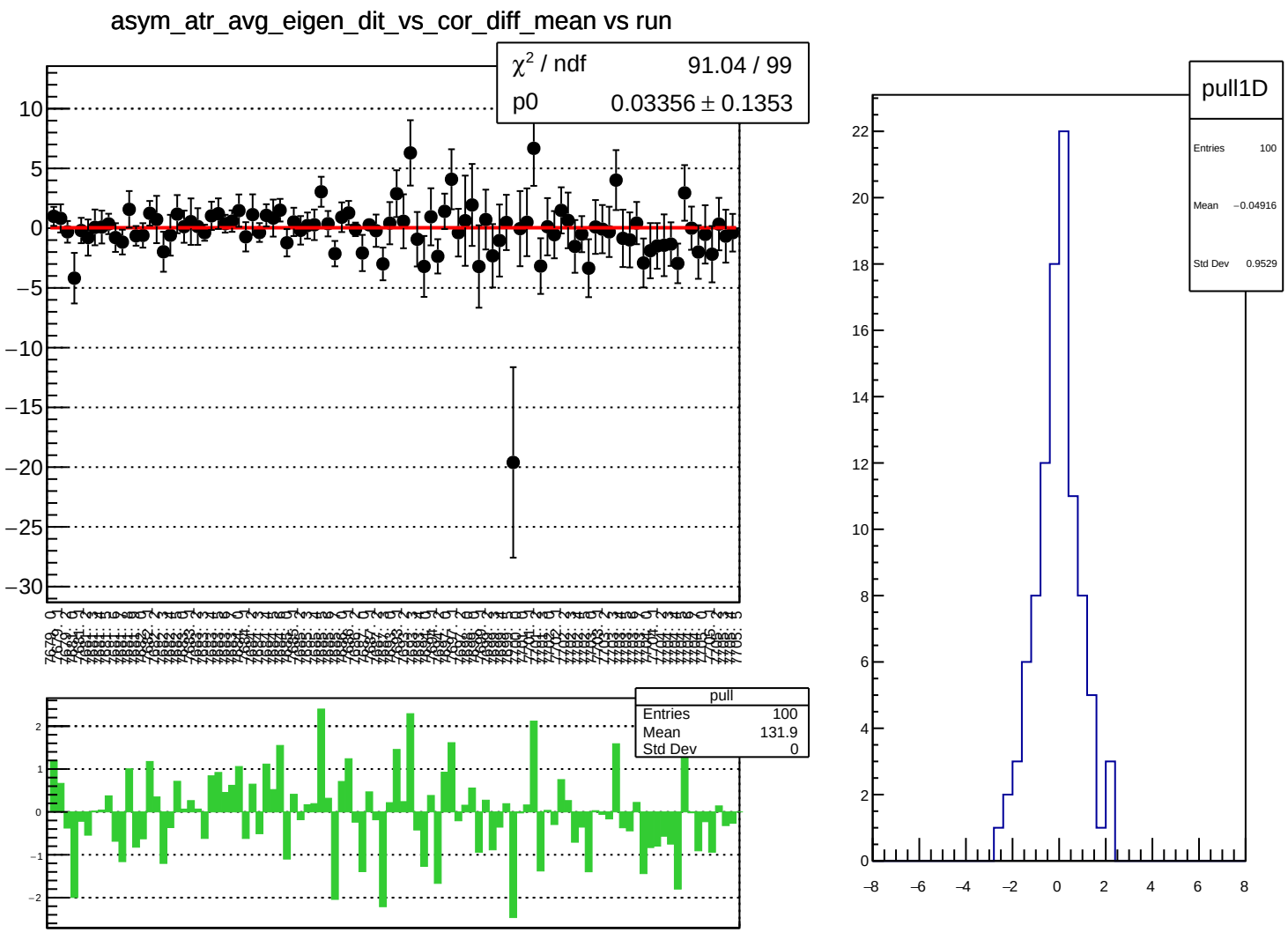

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.04 / 99
p0 0.03354 ± 0.1353
pull
Entries 100
Mean 131.9
Std Dev 0
pull1D
Entries 100
Mean −0.04916
Std Dev 0.9529

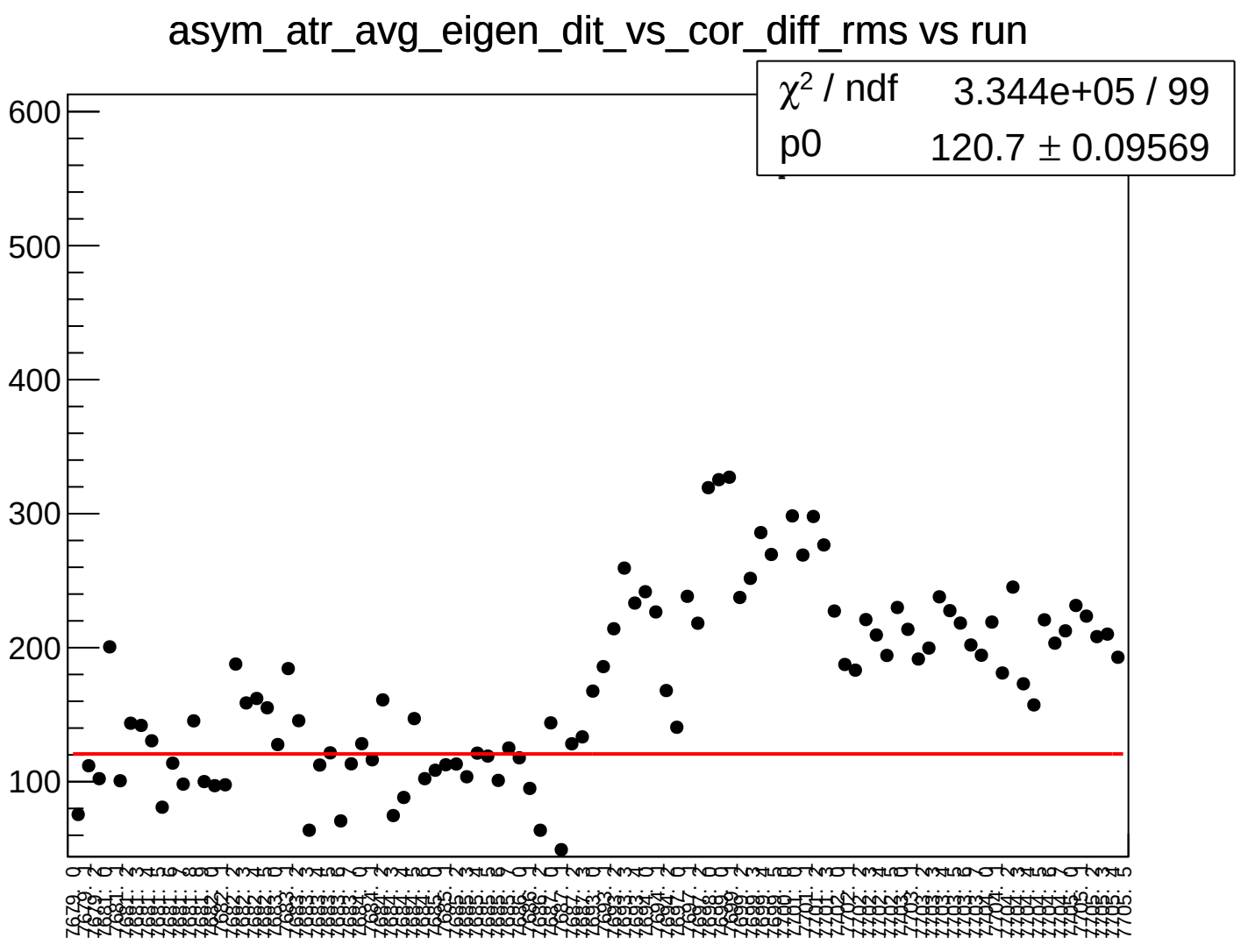

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.344e+05 / 99
p0 120.7 ± 0.0957
600
500
400
300
200
100

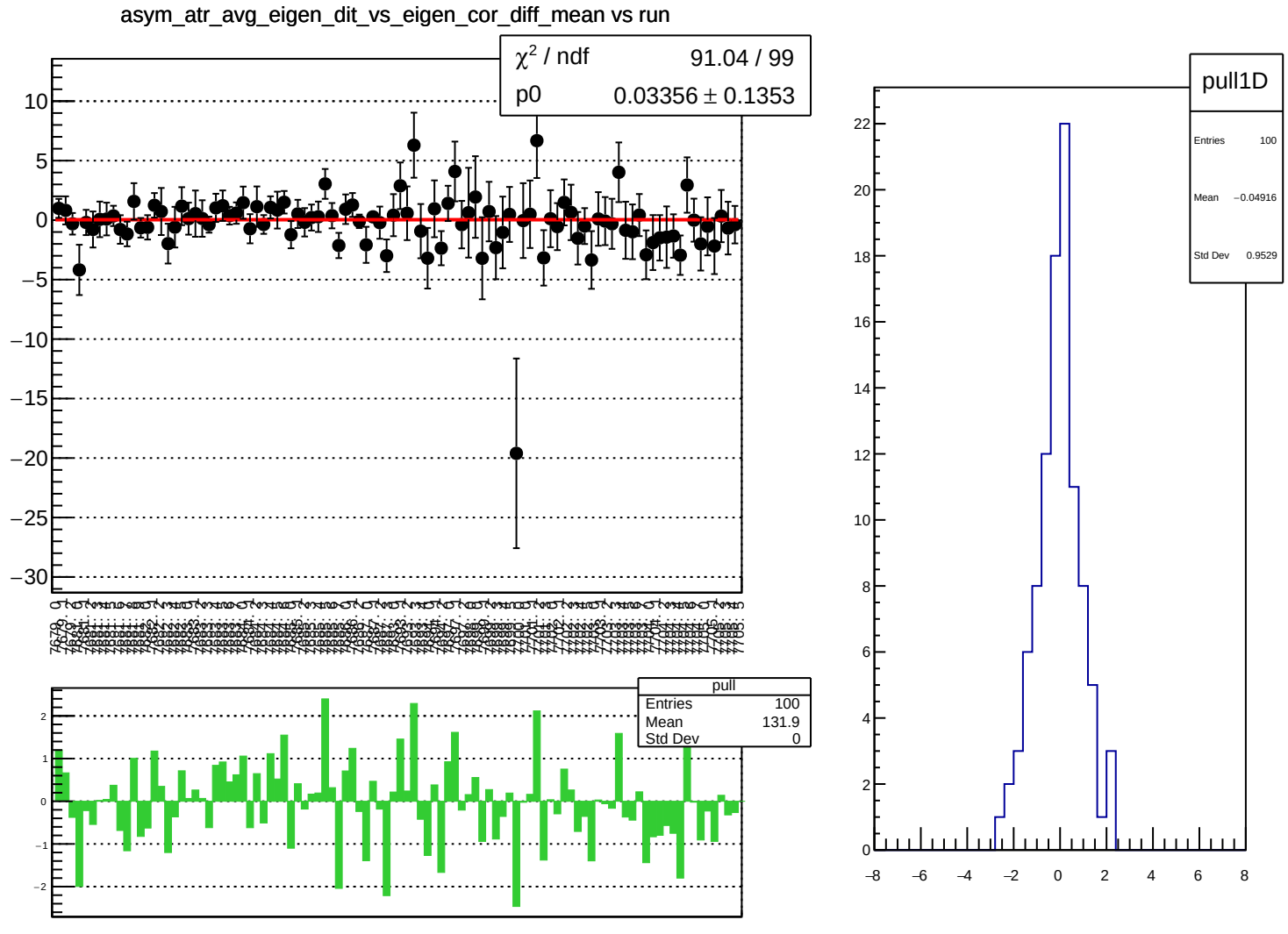

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 107.7 / 99
p0 1.069e−05 ± 1.545e−05
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
pull
Entries 100
Mean 174
Std Dev 0
3
2
1
0
−1
−2

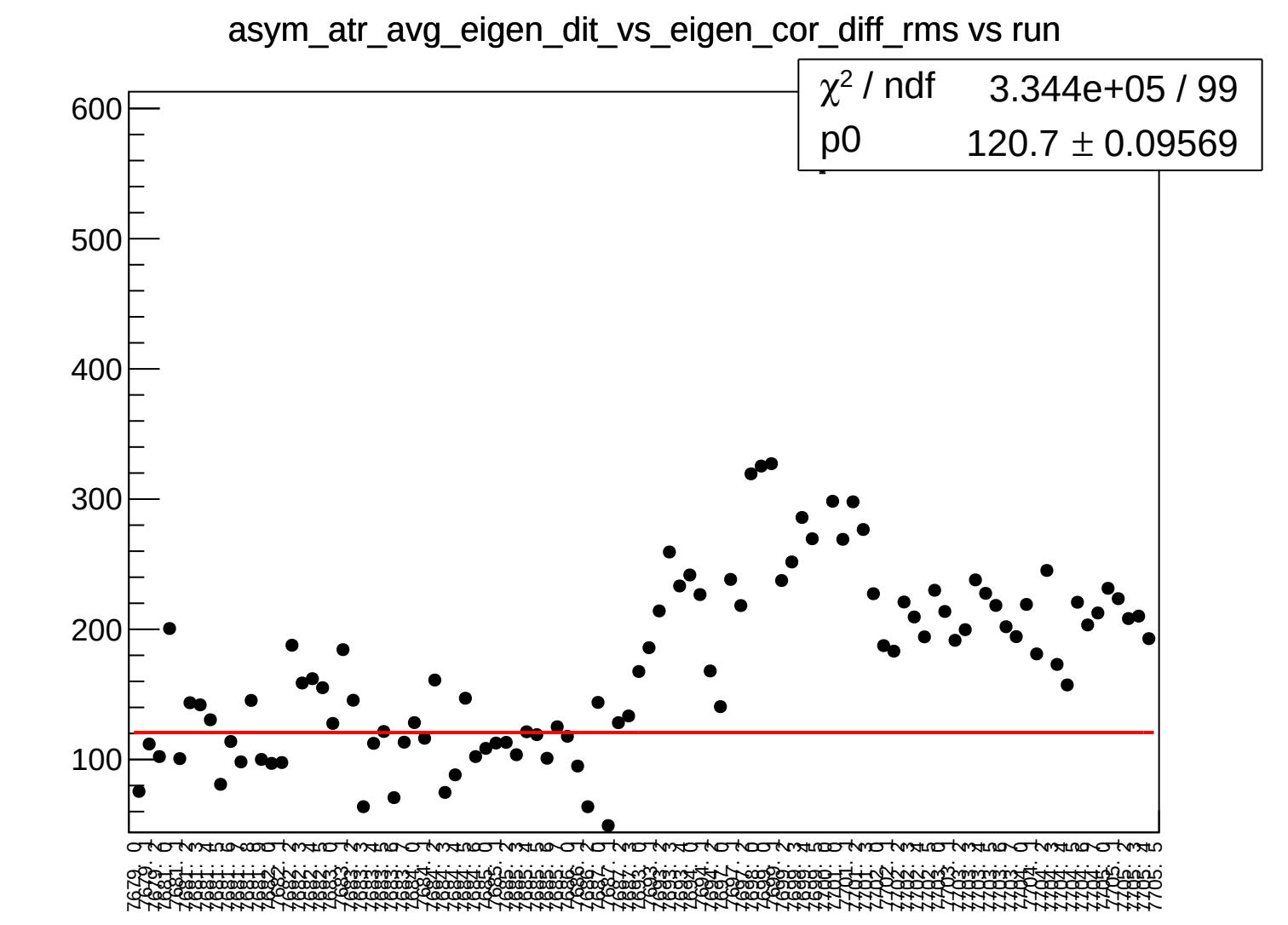

pull1D
Entries 100
Mean 0.05288
Std Dev 1.036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

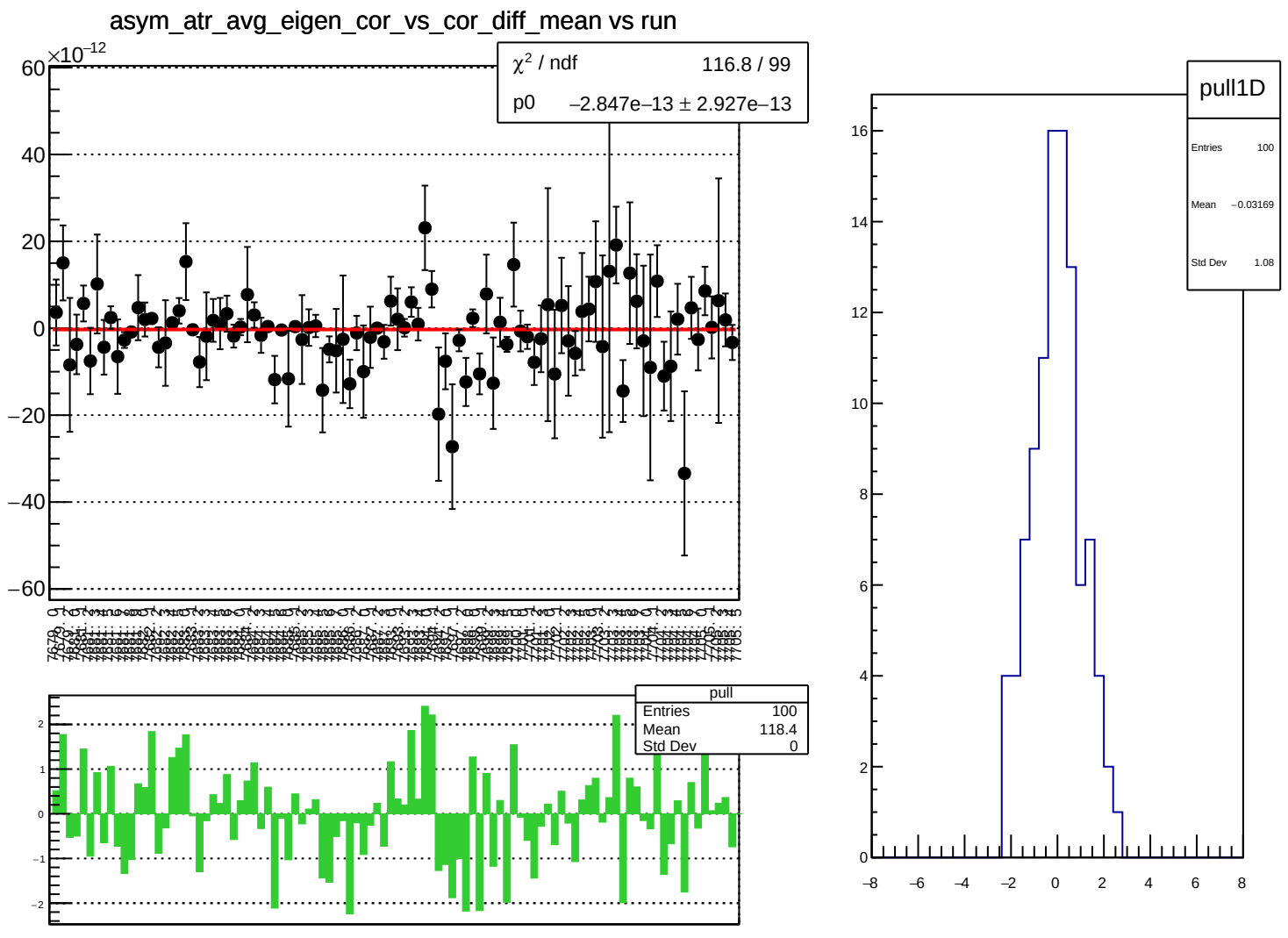

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.316e+04 / 99
p0 0.01487 ± 1.092e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01

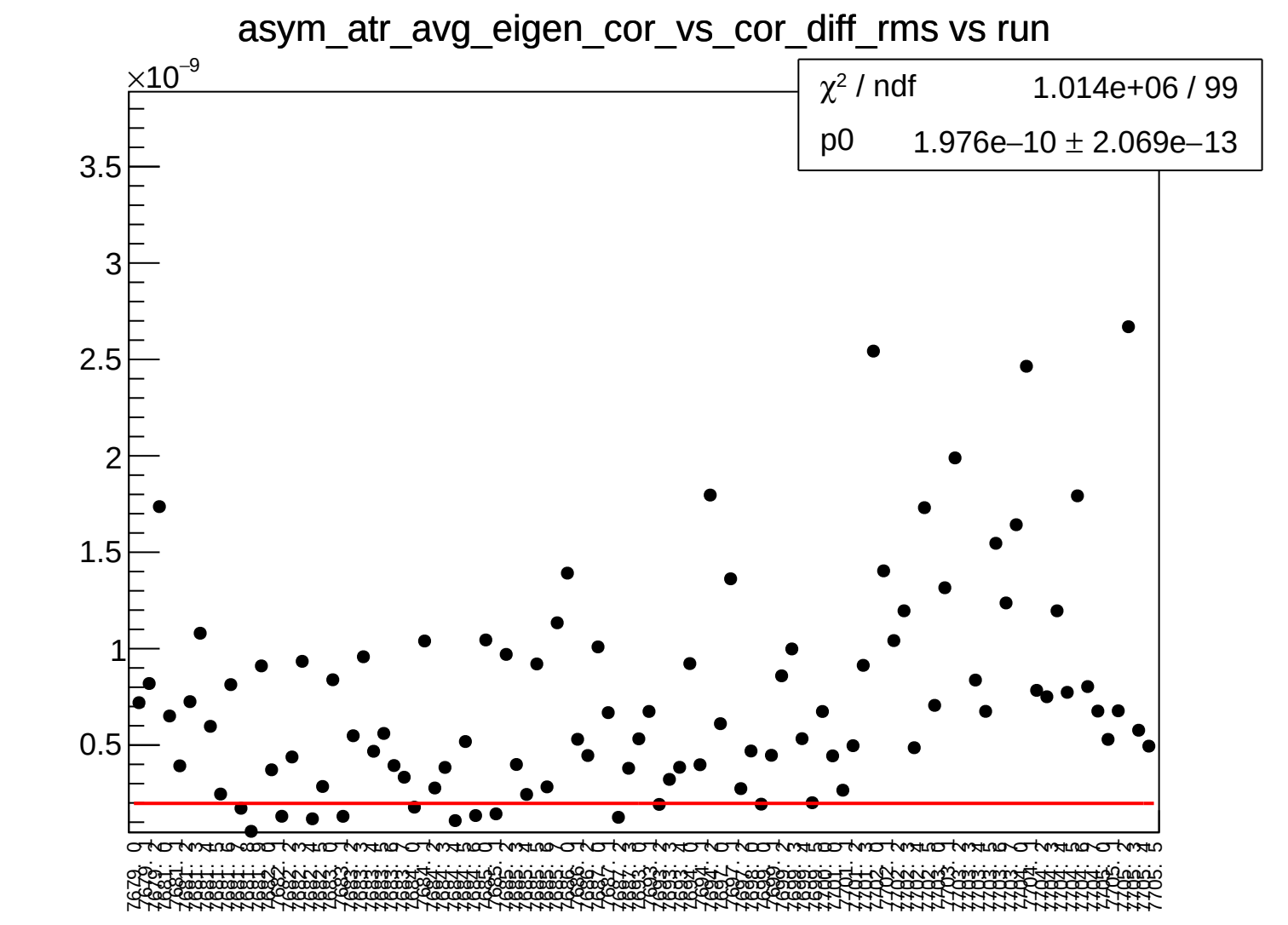

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.04 / 99
p0 0.03356 ± 0.1353
pull
Entries 100
Mean 131.9
Std Dev 0
pull1D
Entries 100
Mean −0.04916
Std Dev 0.9529

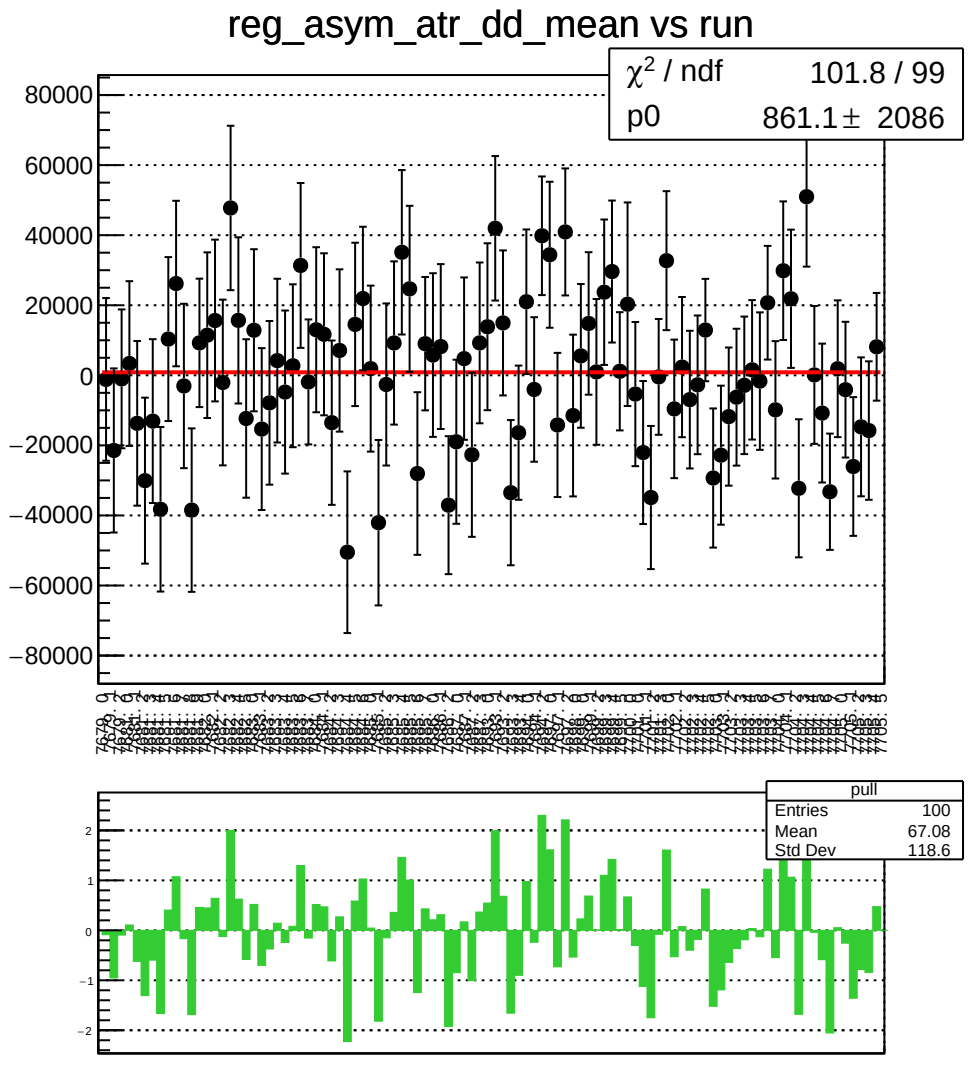

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.344e+05 / 99
p0 120.7 ± 0.09569
600
500
400
300
200
100

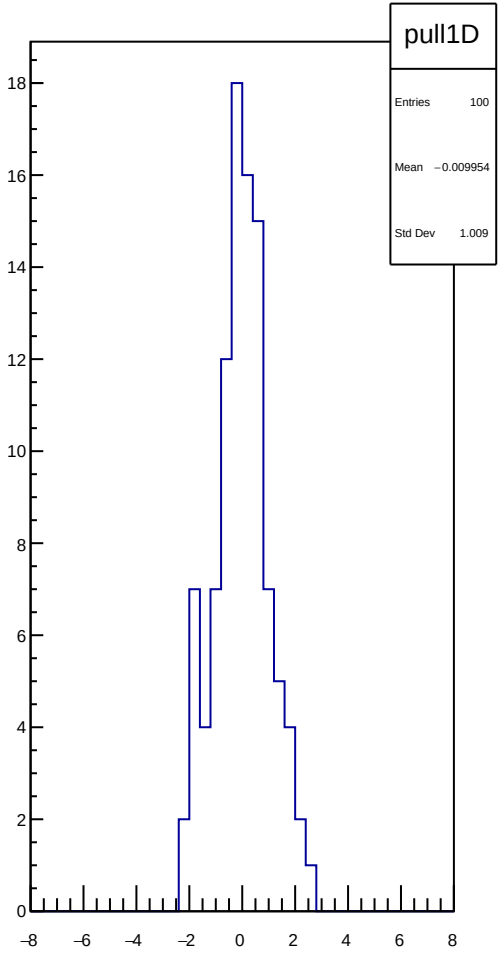

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.04 / 99
p0 0.03356 ± 0.1353
pull
Entries 100
Mean 131.9
Std Dev 0
pull1D
Entries 100
Mean −0.04916
Std Dev 0.9529

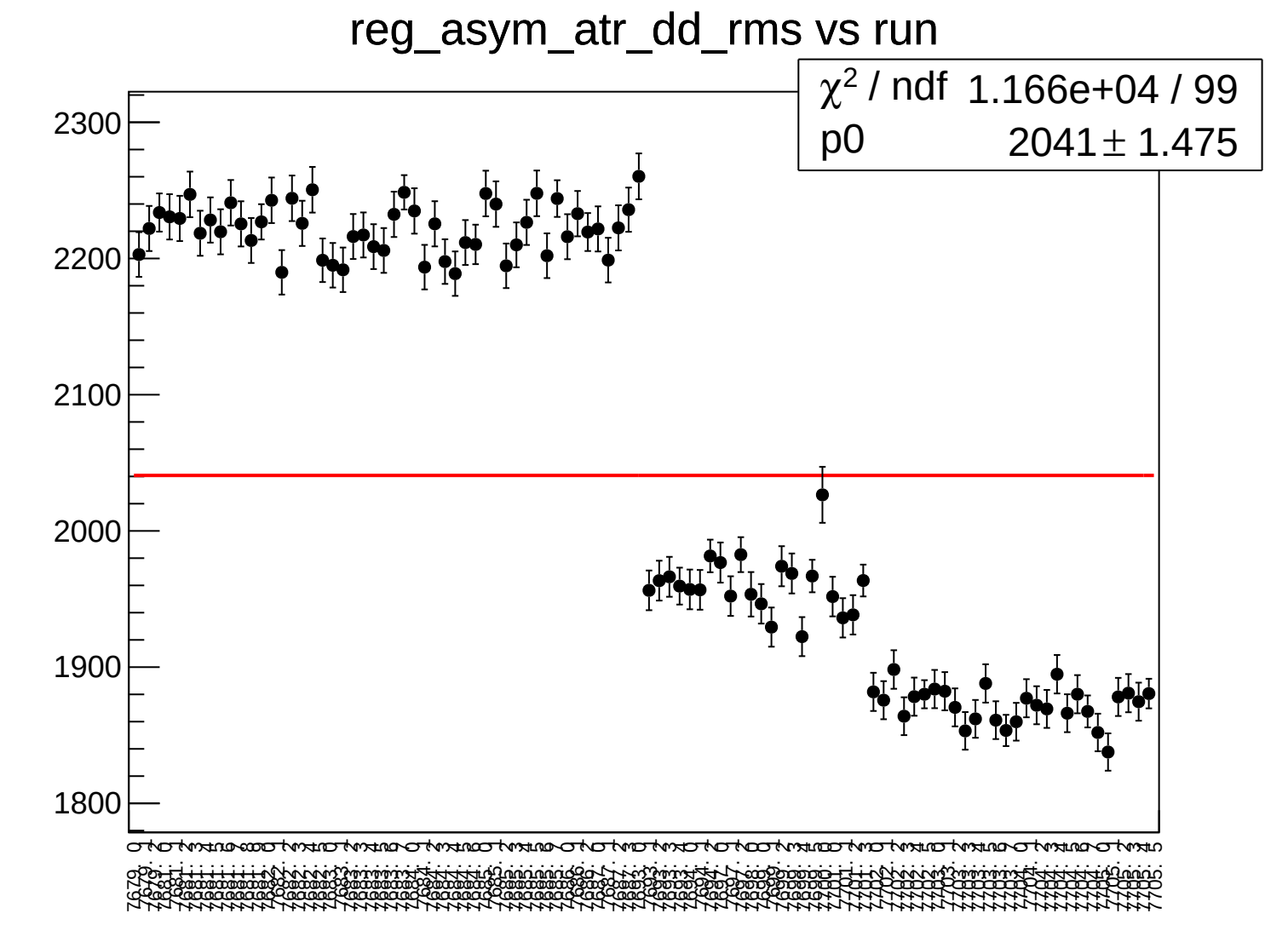

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.344e+05 / 99
p0 120.7 ± 0.09569
600
500
400
300
200
100

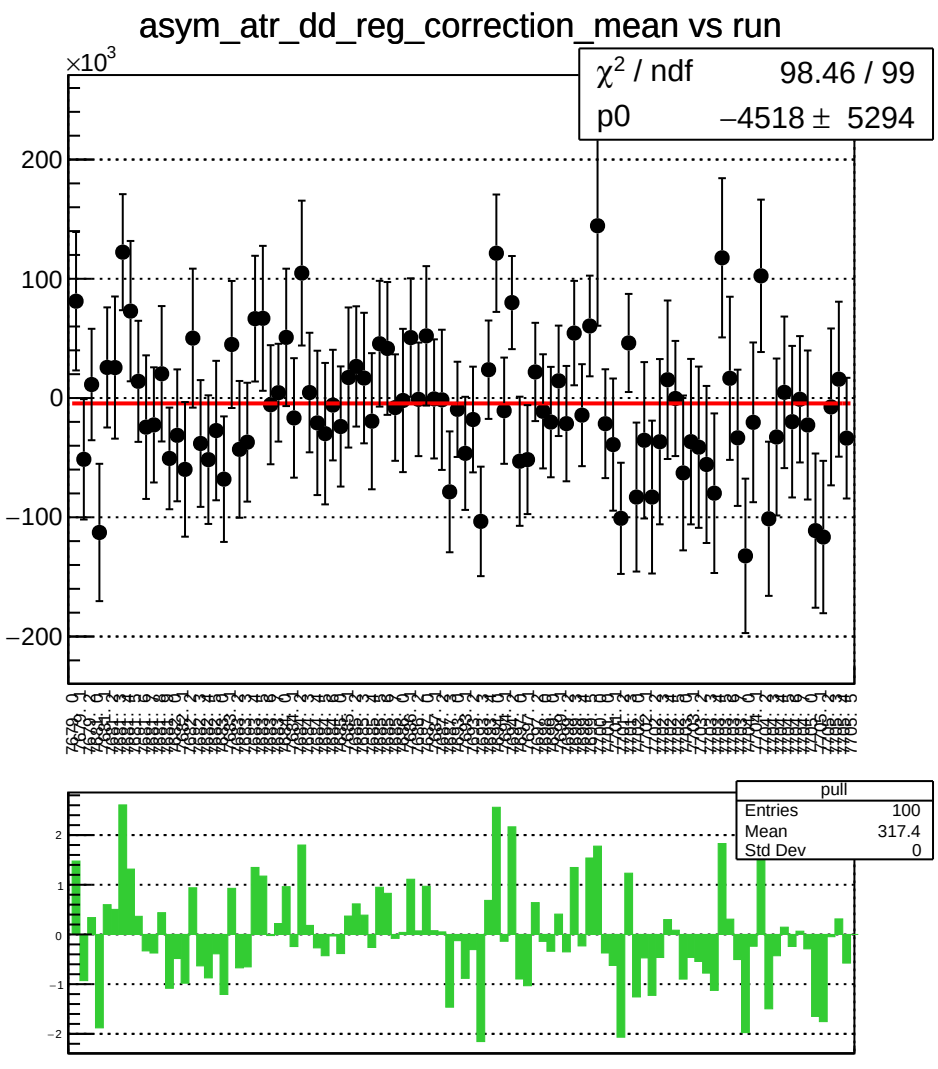

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 116.8 / 99
p0 −2.847e−13 ± 2.927e−13
pull
Entries 100
Mean 118.4
Std Dev 0
pull1D
Entries 100
Mean −0.03169
Std Dev 1.08

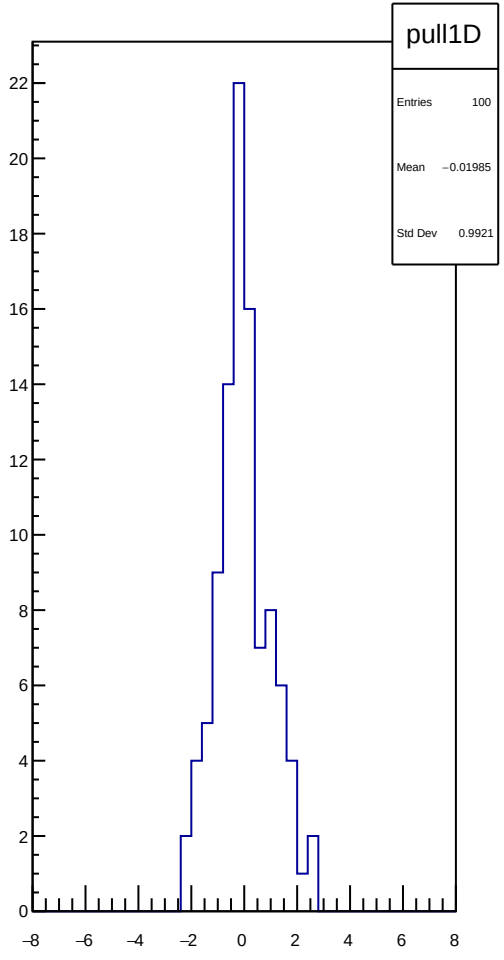

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.014e+06 / 99
p0 1.976e−10 ± 2.069e−13
3.5
3
2.5
2
1.5
1
0.5

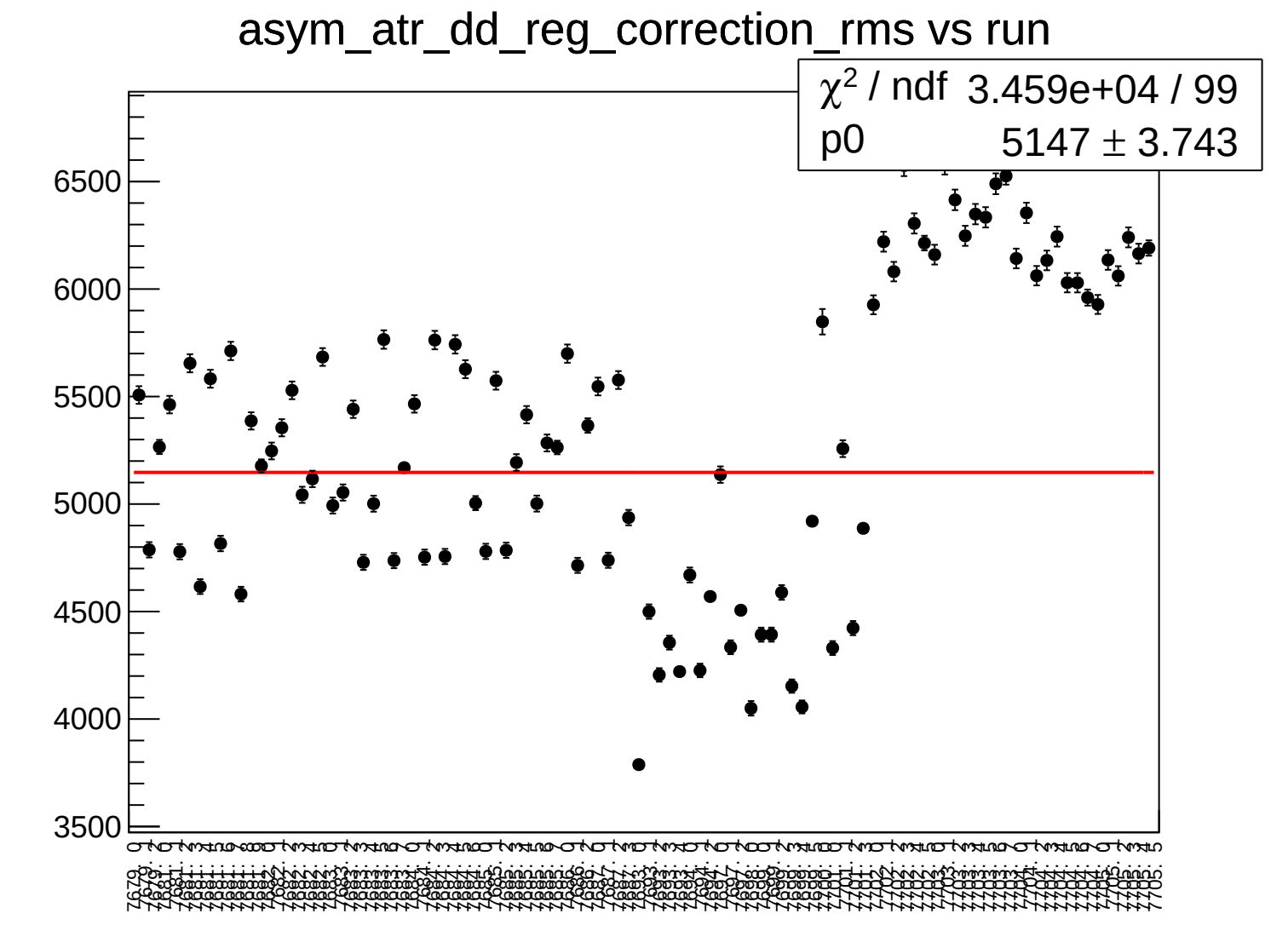

reg_asym_atr_dd_mean vs run
χ² / ndf 101.8 / 99
p0 861.1 ± 2086
pull
Entries 100
Mean 67.08
Std Dev 118.6

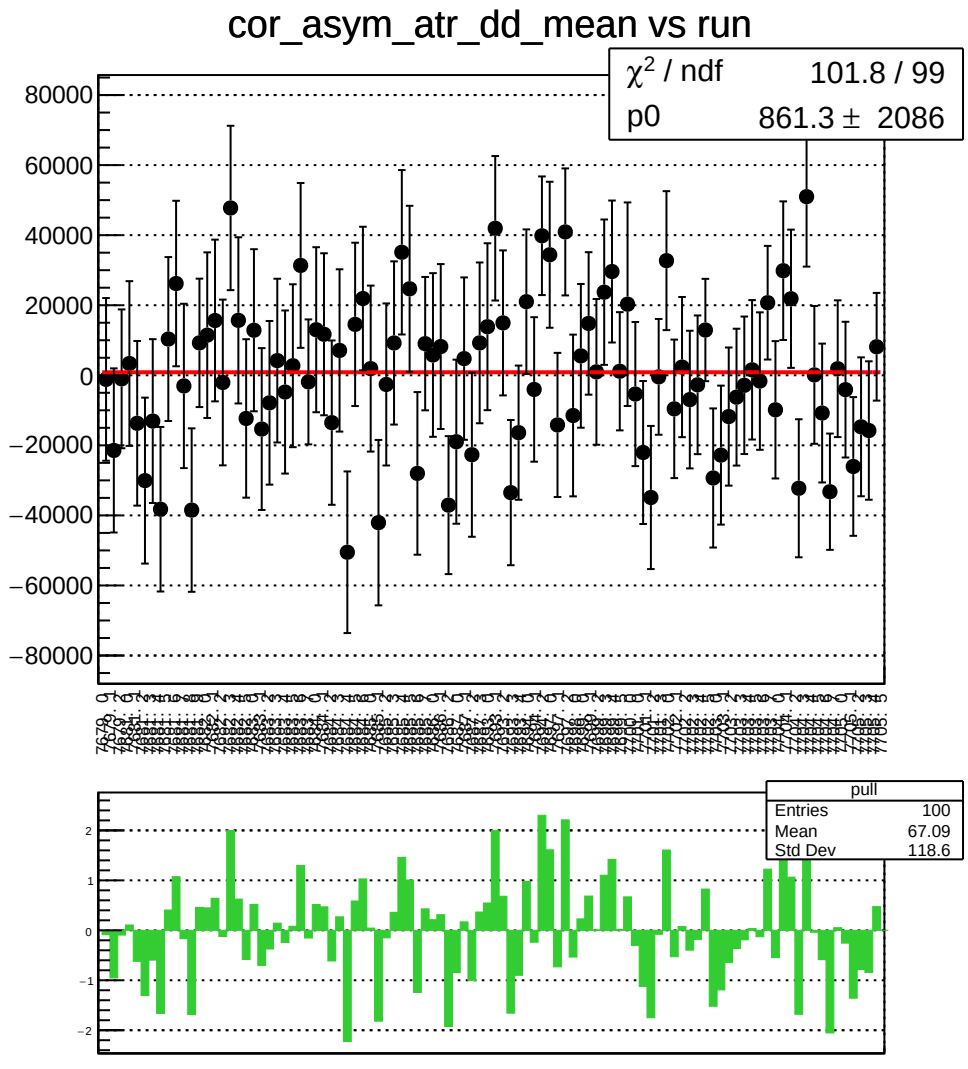

pull1D
Entries 100
Mean −0.009954
Std Dev 1.009

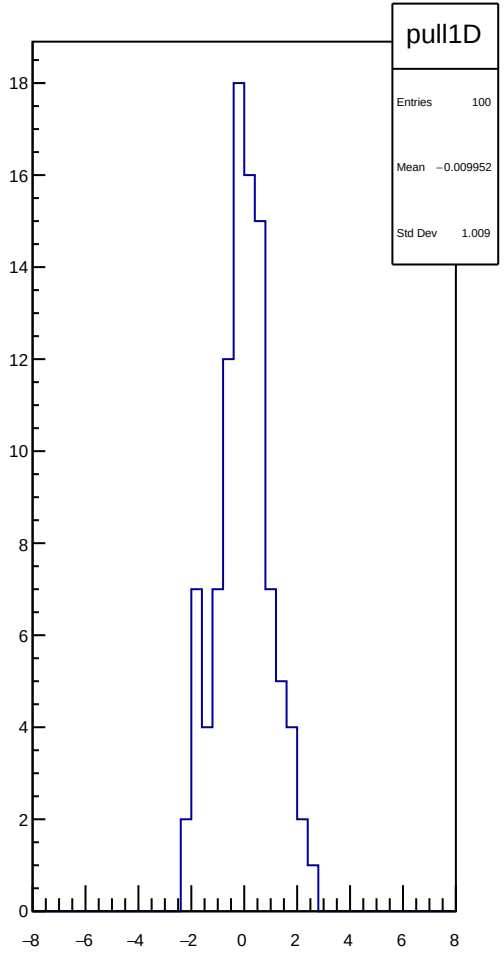

reg_asym_atr_dd_rms vs run
χ² / ndf 1.166e+04 / 99
p0 2041 ± 1.475
2300
2200
2100
2000
1900
1800

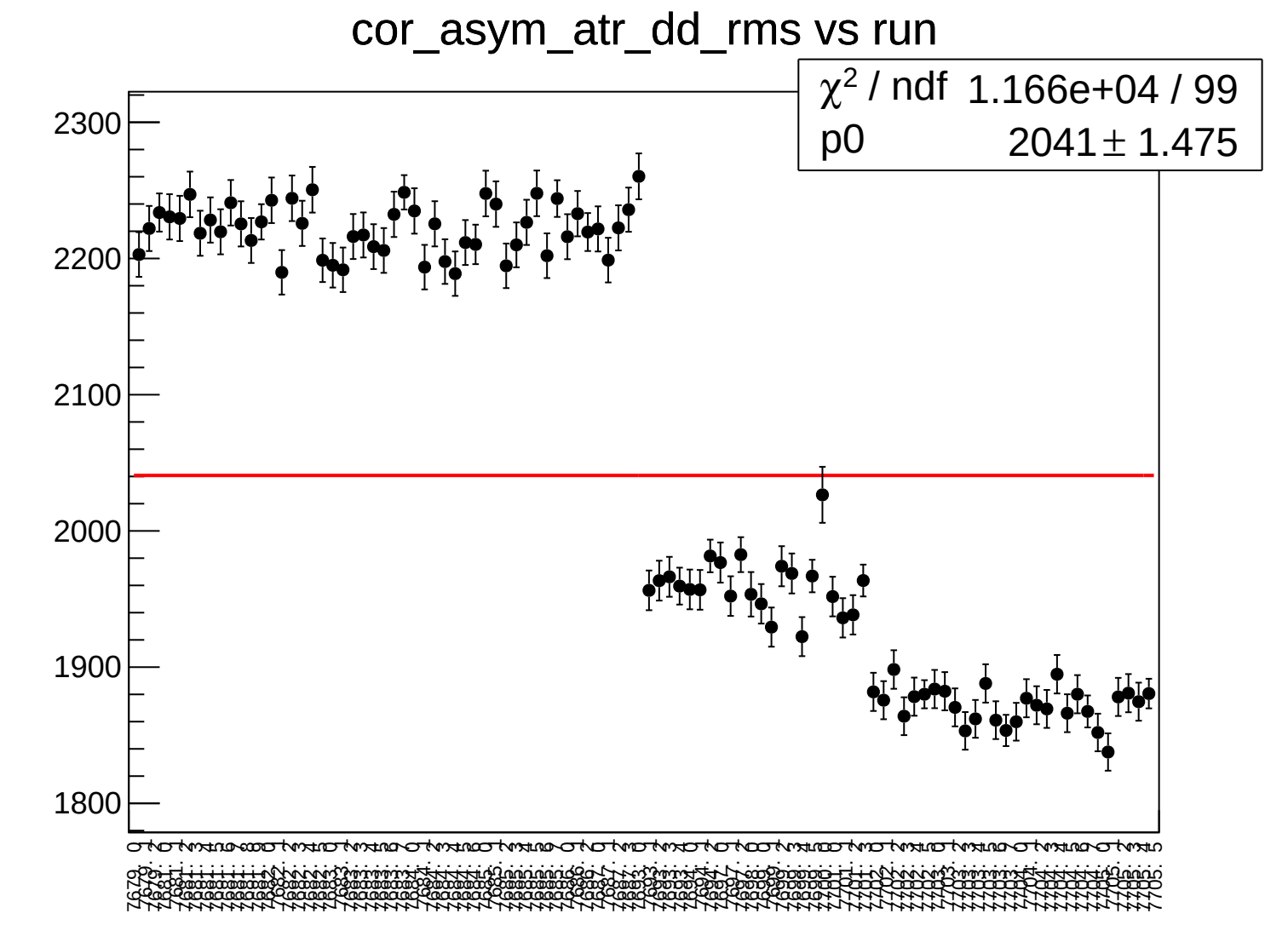

asym_atr_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 98.46 / 99
p0 −4518 ± 5294
200
100
0
−100
−200
pull
Entries 100
Mean 317.4
Std Dev 0
2
1
0
−1
−2

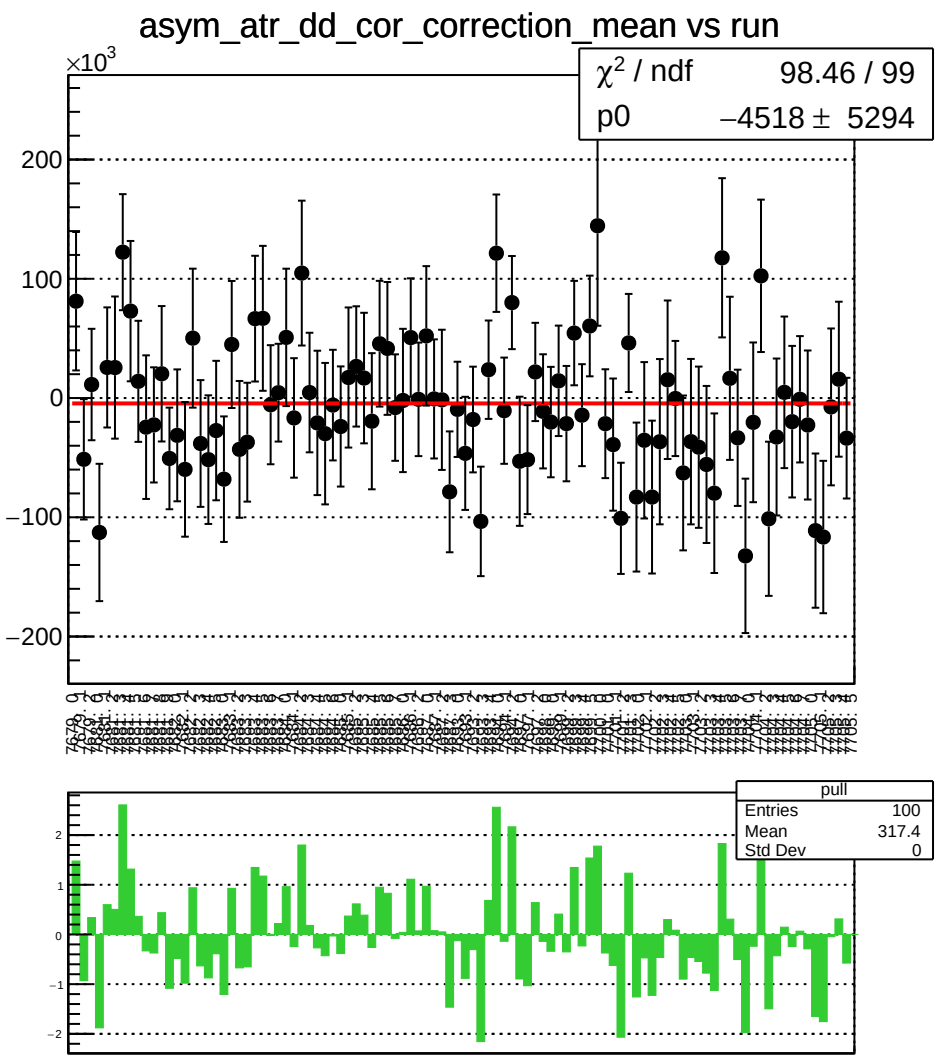

pull1D
Entries 100
Mean −0.01985
Std Dev 0.9921
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

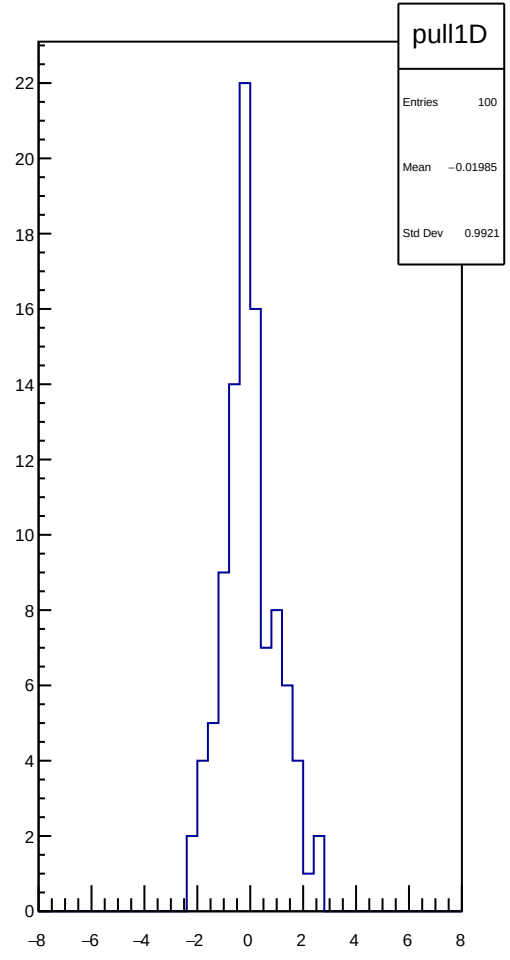

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 3.459e+04 / 99
p0 5147 ± 3.743
6500
6000
5500
5000
4500
4000
3500

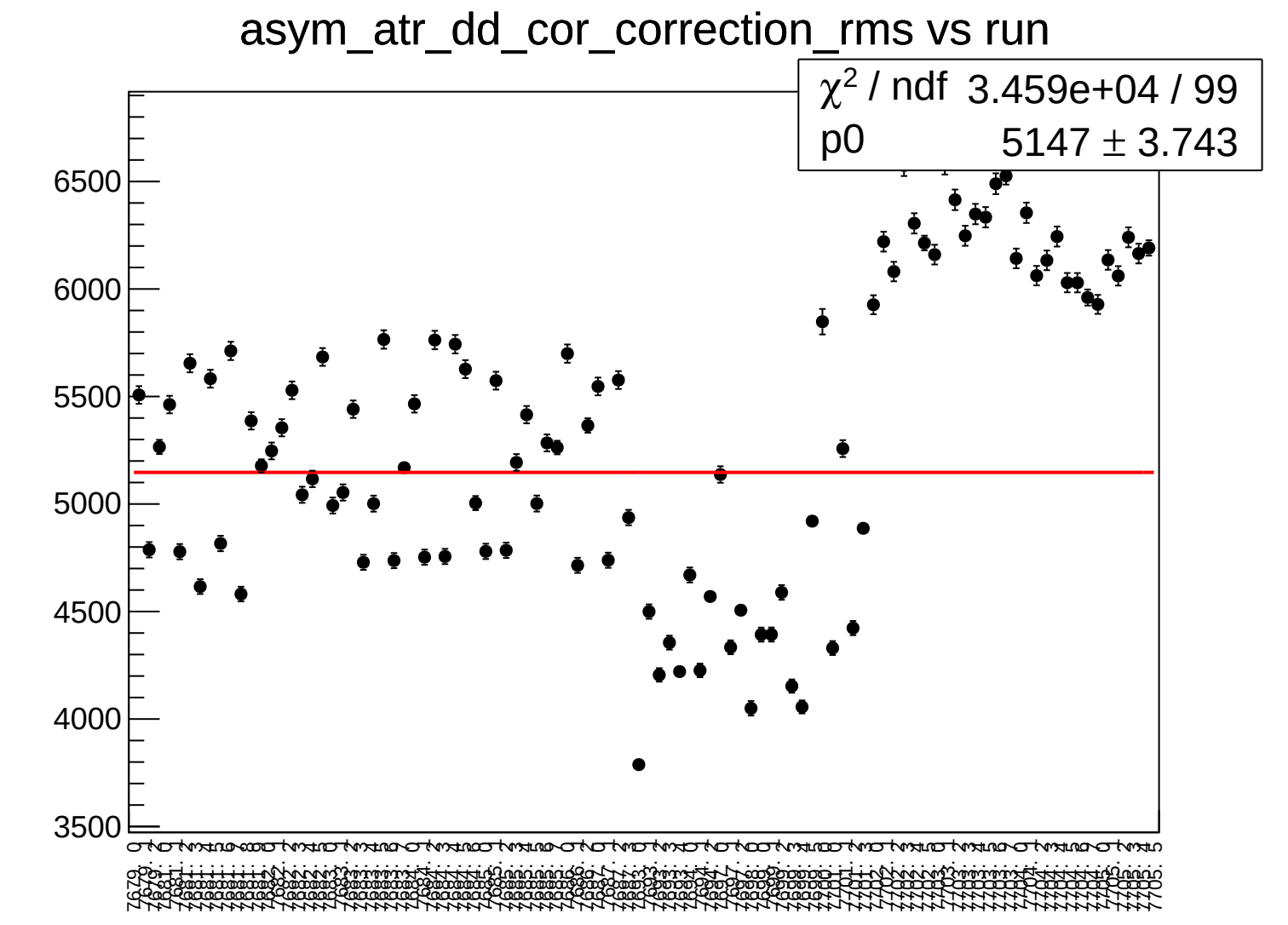

cor_asym_atr_dd_mean vs run
χ² / ndf 101.8 / 99
p0 861.3 ± 2086
pull
Entries 100
Mean 67.09
Std Dev 118.6

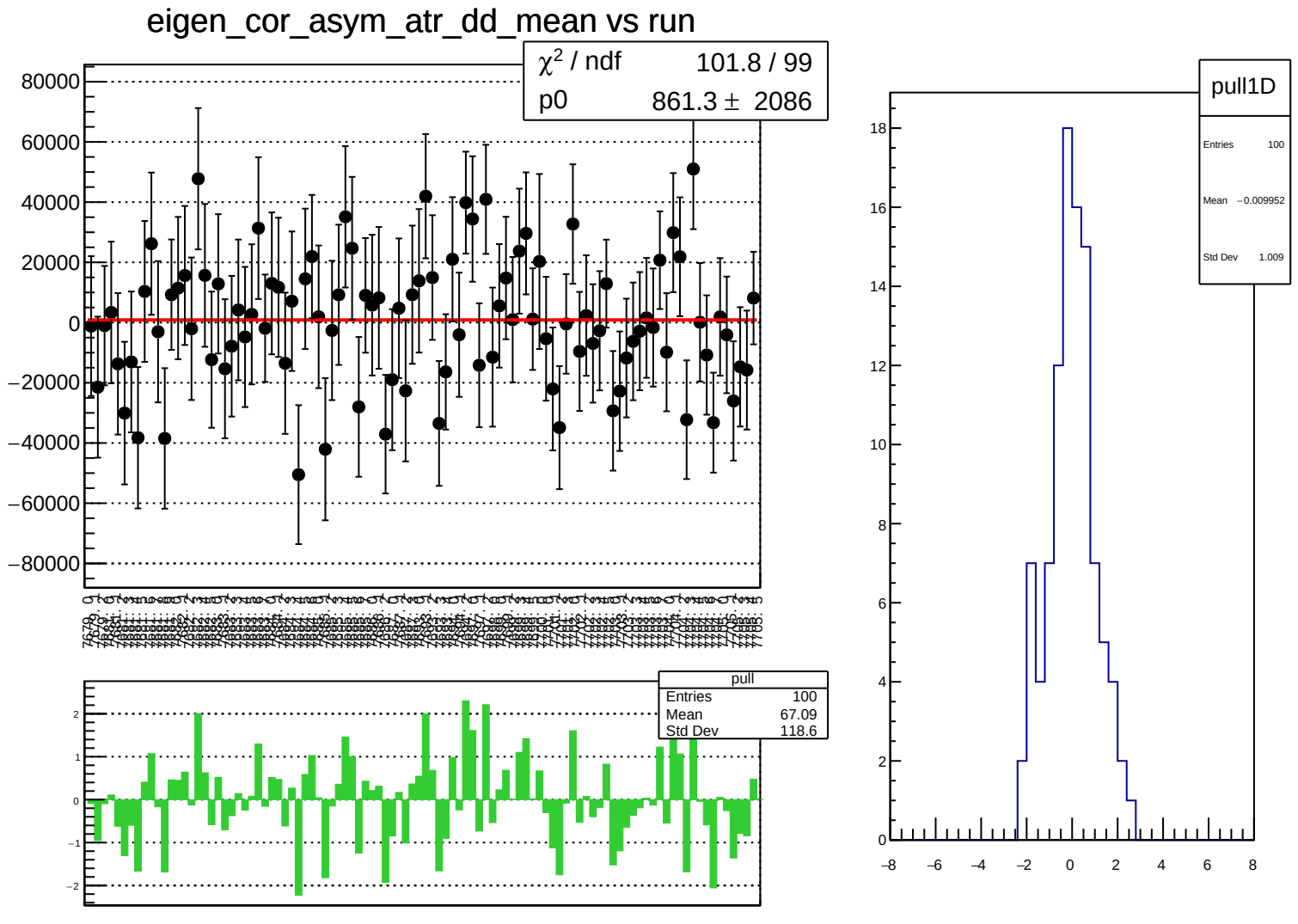

pull1D
Entries 100
Mean −0.009952
Std Dev 1.009

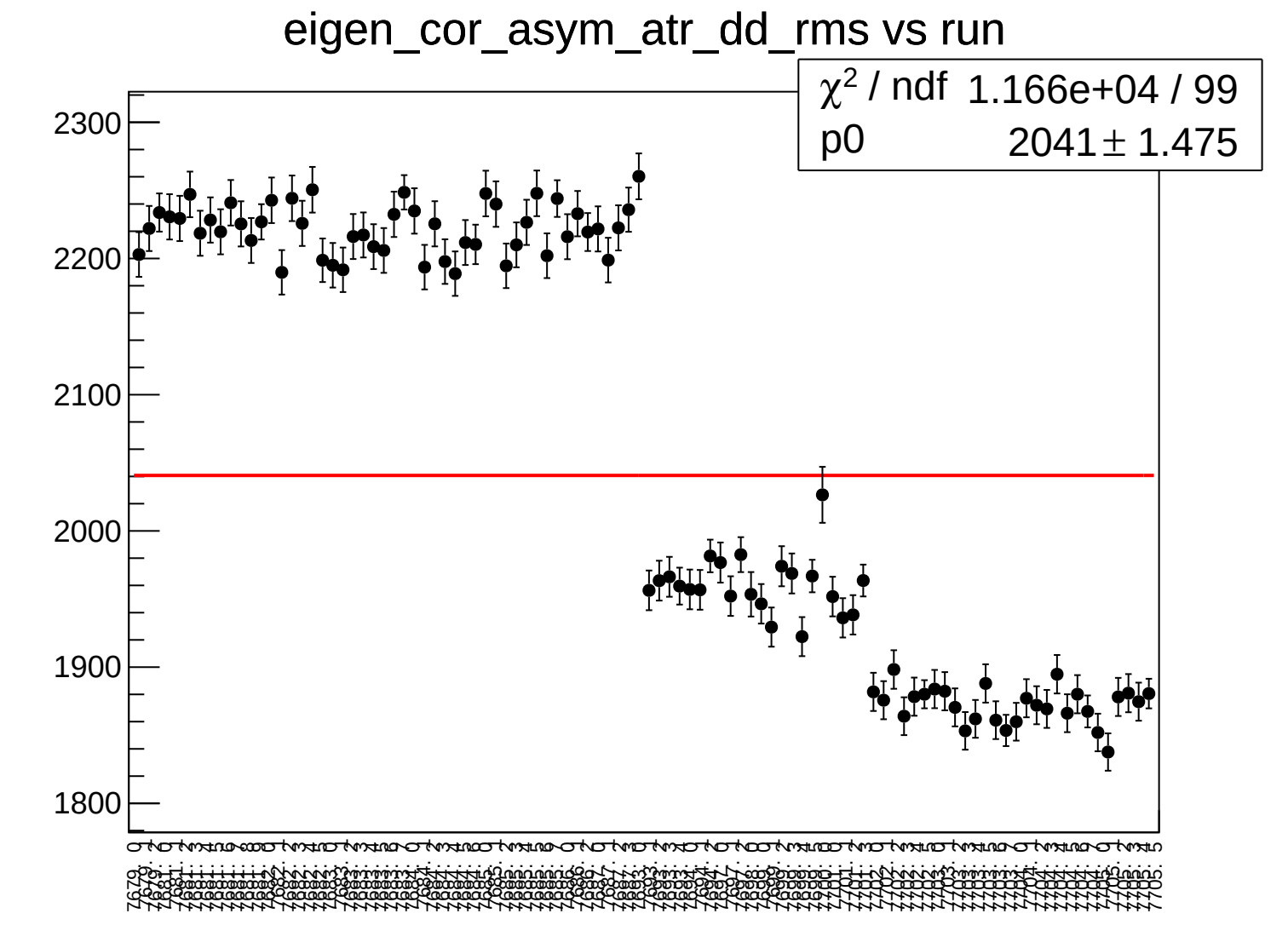

cor_asym_atr_dd_rms vs run
χ^2 / ndf 1.166e+04 / 99
p0 2041 ± 1.475
2300
2200
2100
2000
1900
1800

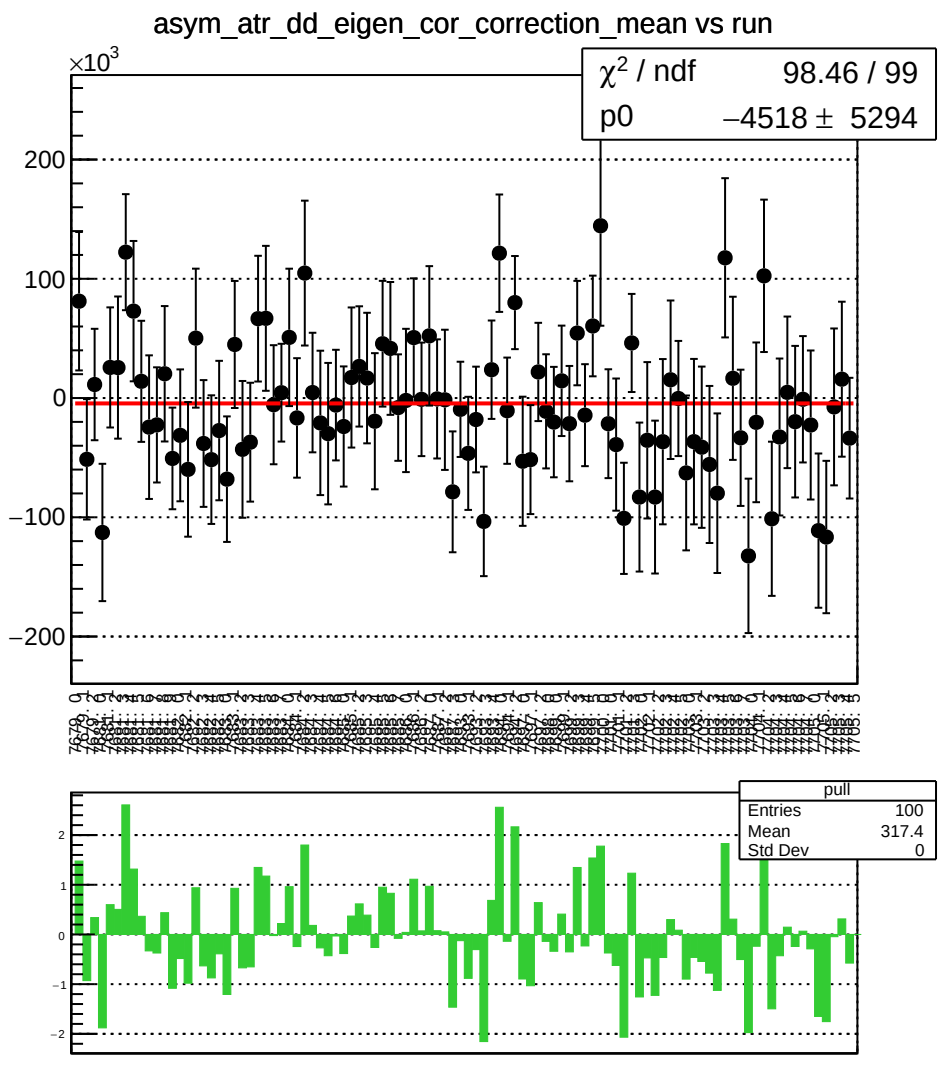

asym_atr_dd_cor_correction_mean vs run
×10^3
χ² / ndf 98.46 / 99
p0 −4518 ± 5294
200
100
0
−100
−200
pull
Entries 100
Mean 317.4
Std Dev 0
2
1
0
−1
−2

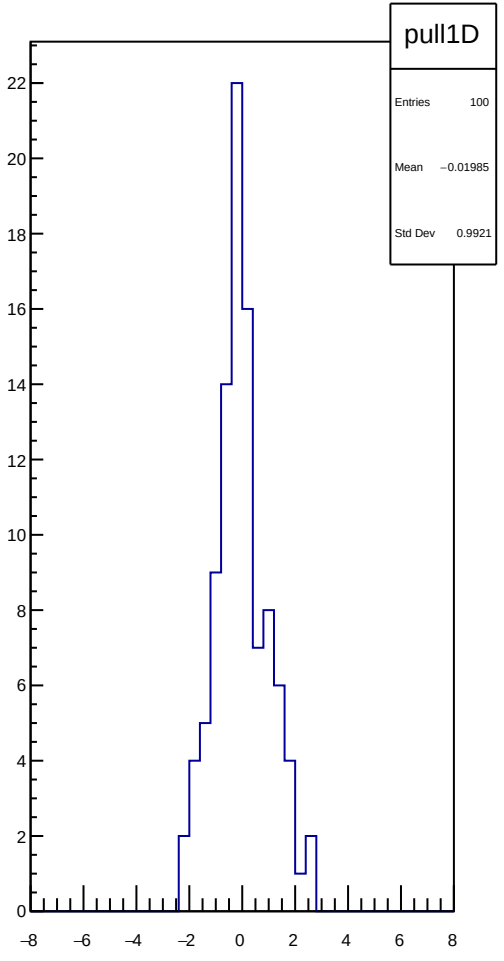

pull1D
Entries 100
Mean −0.01985
Std Dev 0.9921
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

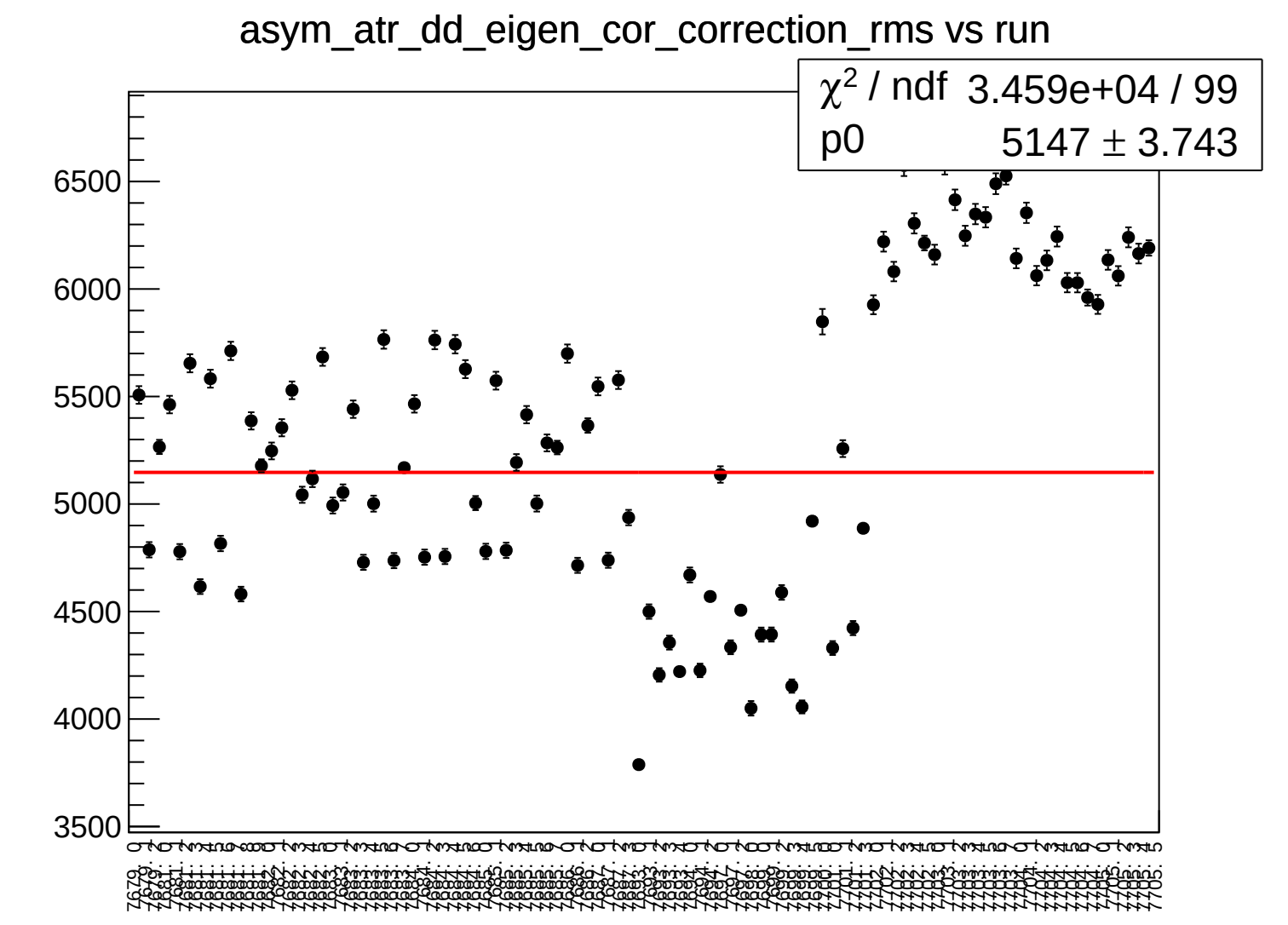

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 3.459e+04 / 99
p0 5147 ± 3.743
6500
6000
5500
5000
4500
4000
3500

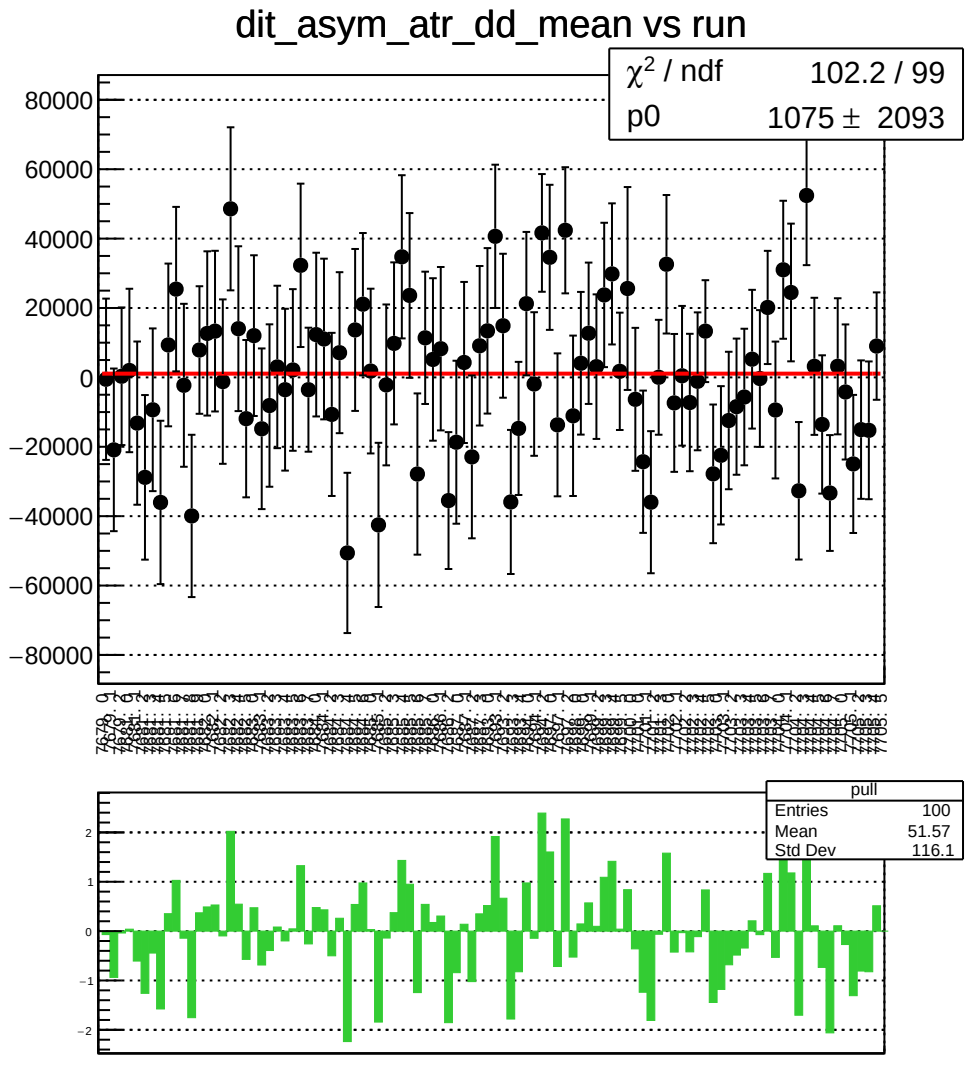

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 101.8 / 99
p0 861.3 ± 2086
pull
Entries 100
Mean 67.09
Std Dev 118.6
pull1D
Entries 100
Mean −0.009952
Std Dev 1.009

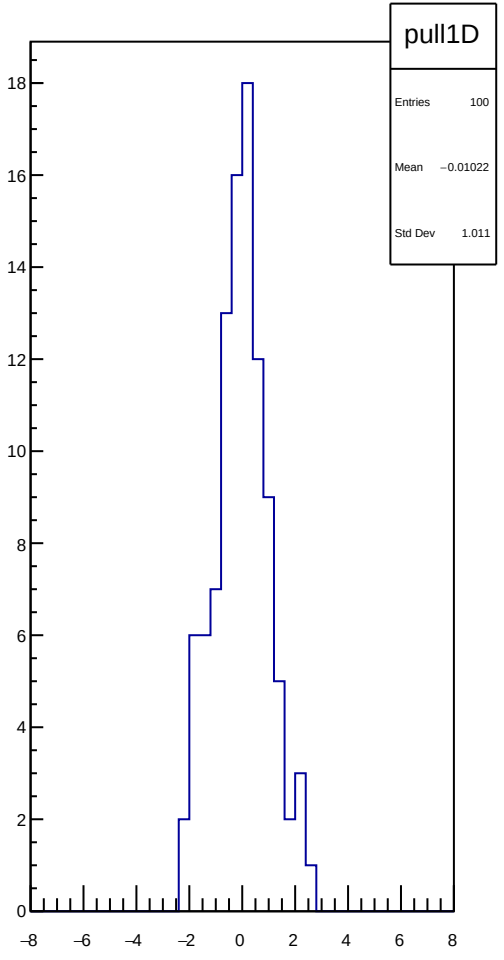

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 1.166e+04 / 99
p0 2041 ± 1.475
2300
2200
2100
2000
1900
1800

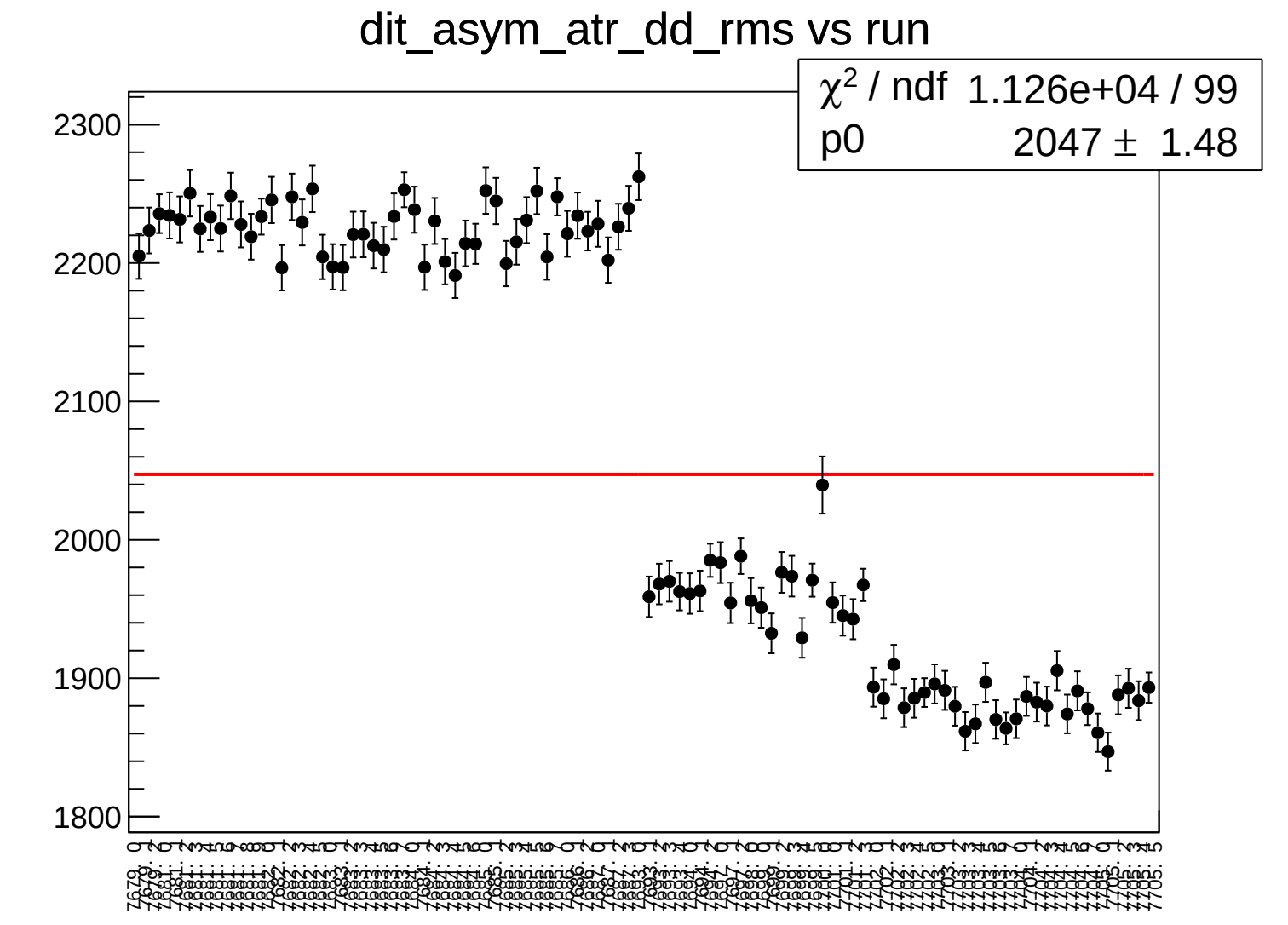

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 98.46 / 99
p0 −4518 ± 5294
200
100
0
−100
−200
pull
Entries 100
Mean 317.4
Std Dev 0
2
1
0
−1
−2

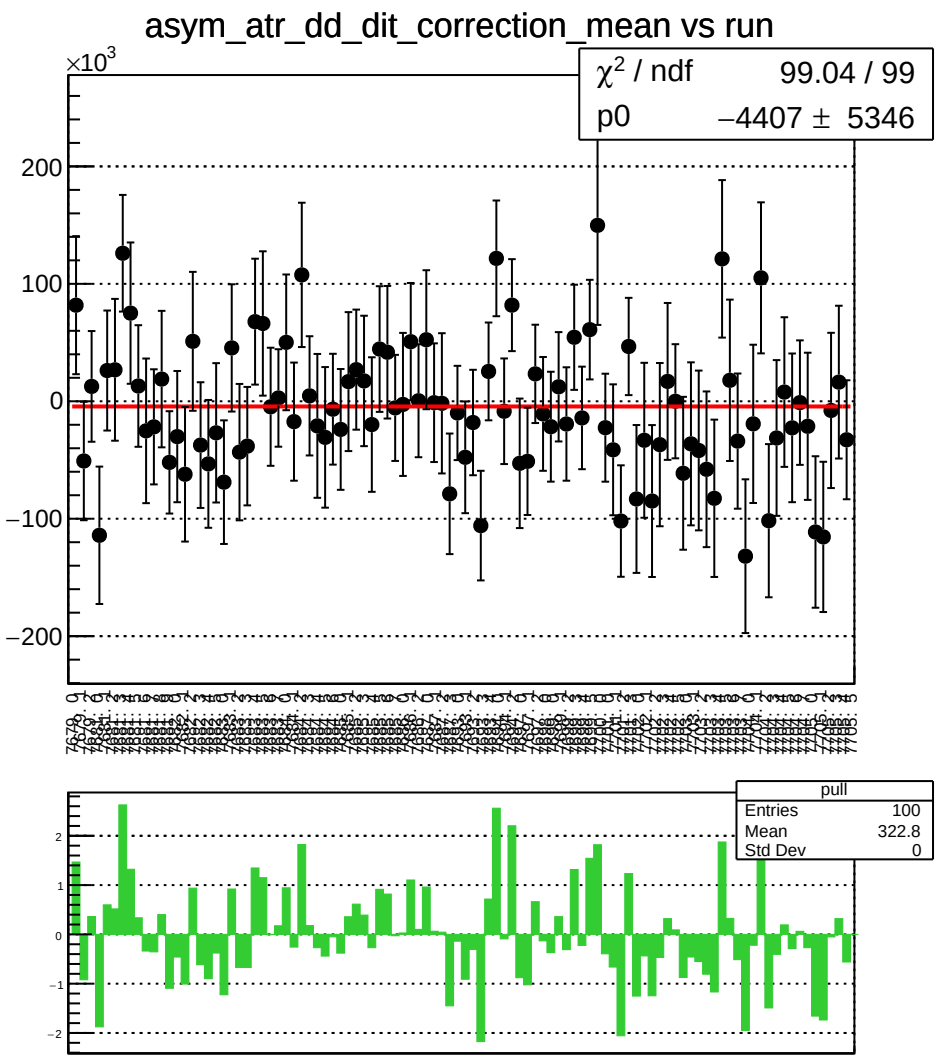

pull1D
Entries 100
Mean −0.01985
Std Dev 0.9921
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

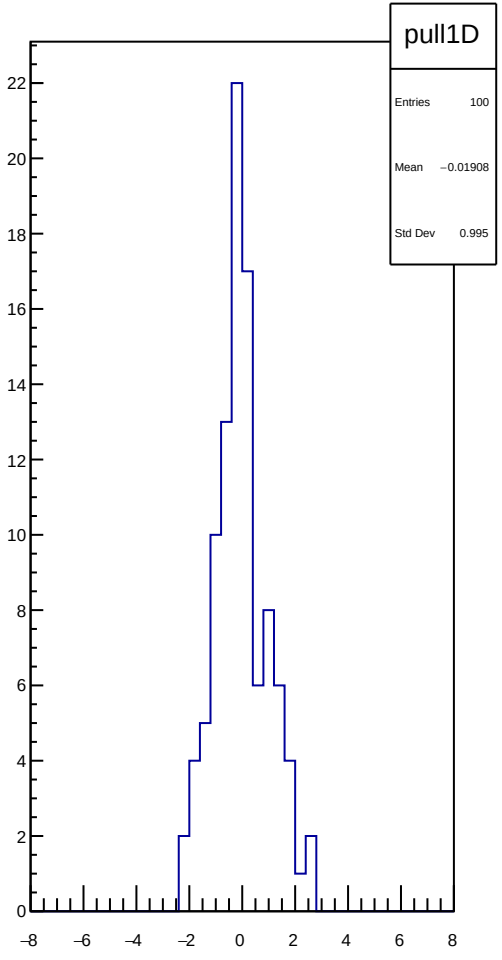

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.459e+04 / 99
p0 5147 ± 3.743
6500
6000
5500
5000
4500
4000
3500

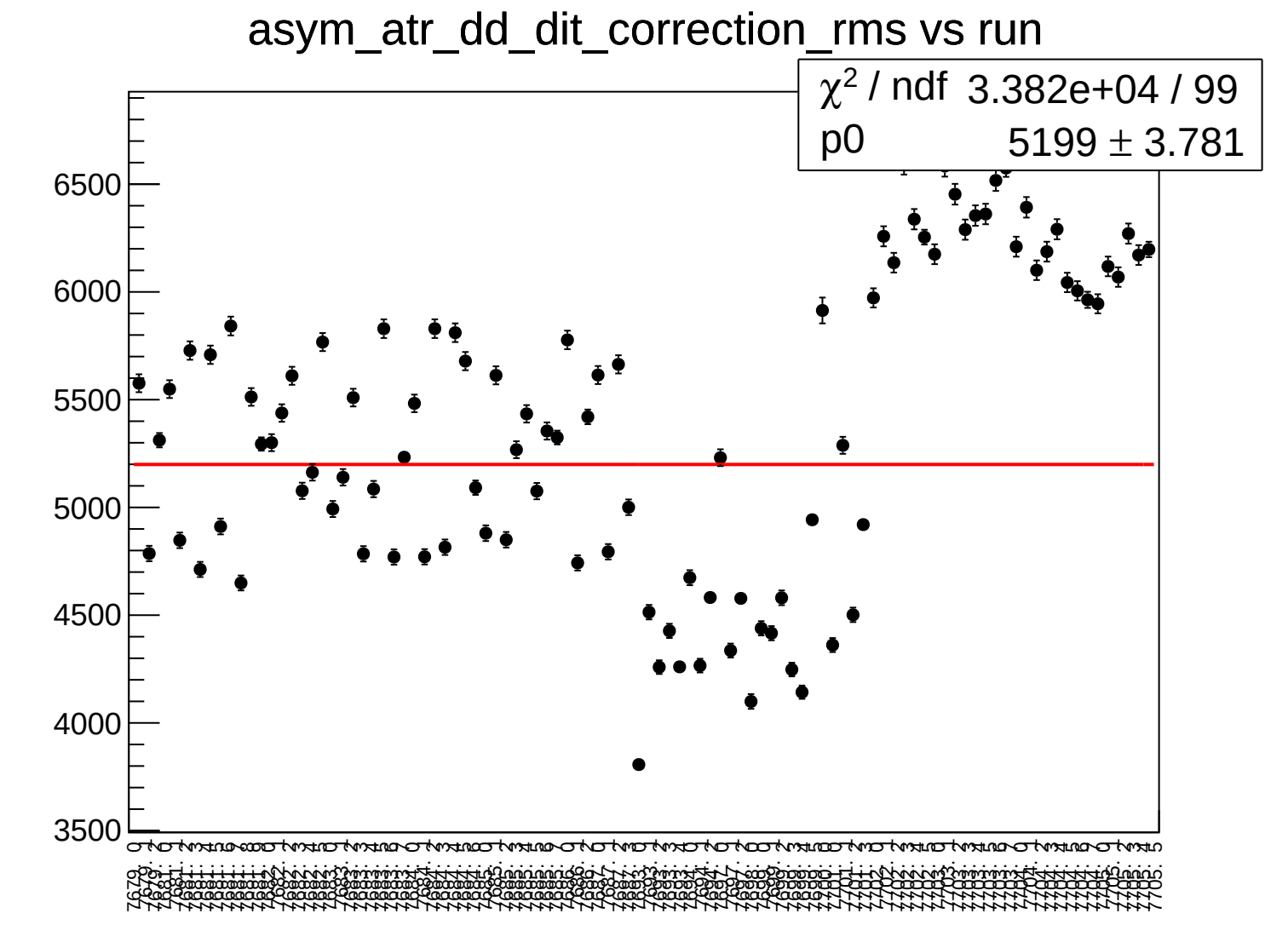

dit_asym_atr_dd_mean vs run
χ² / ndf 102.2 / 99
p0 1075 ± 2093
pull
Entries 100
Mean 51.57
Std Dev 116.1

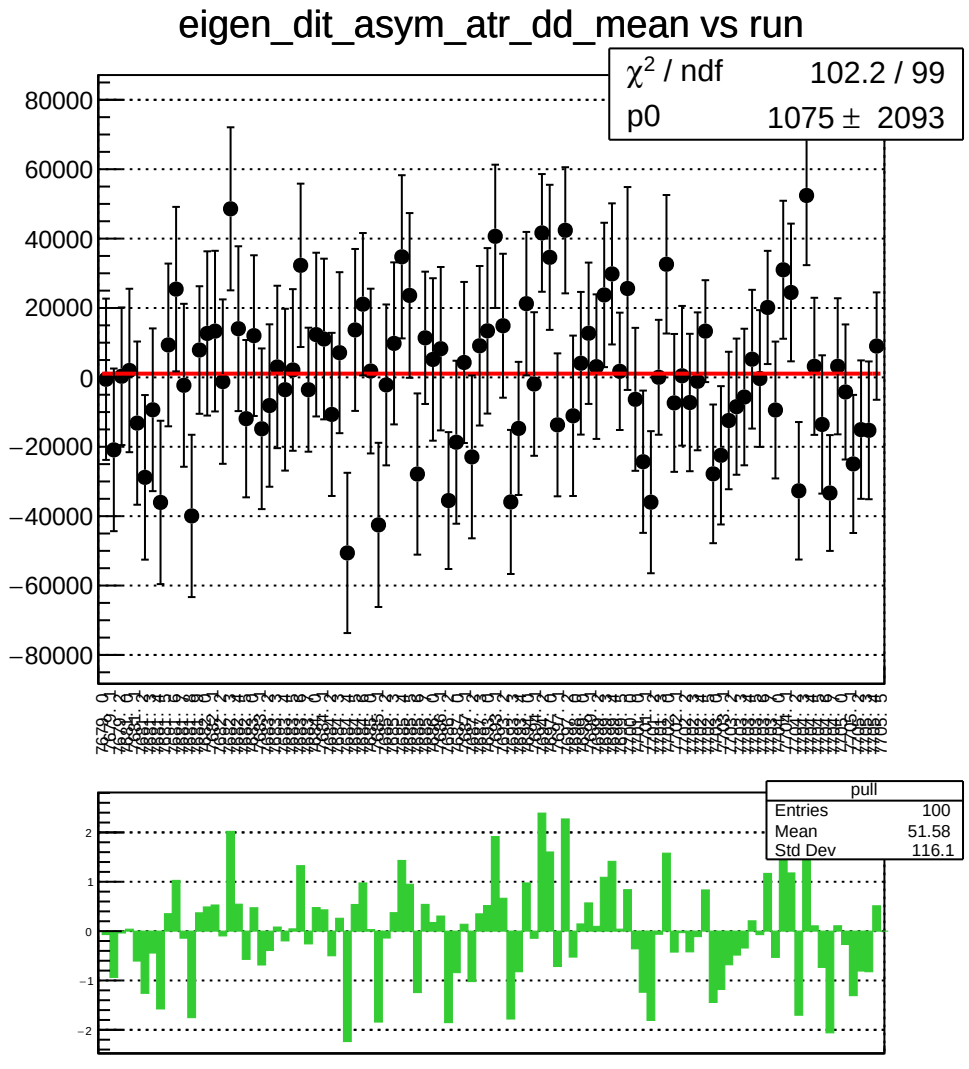

pull1D
Entries 100
Mean −0.01022
Std Dev 1.011

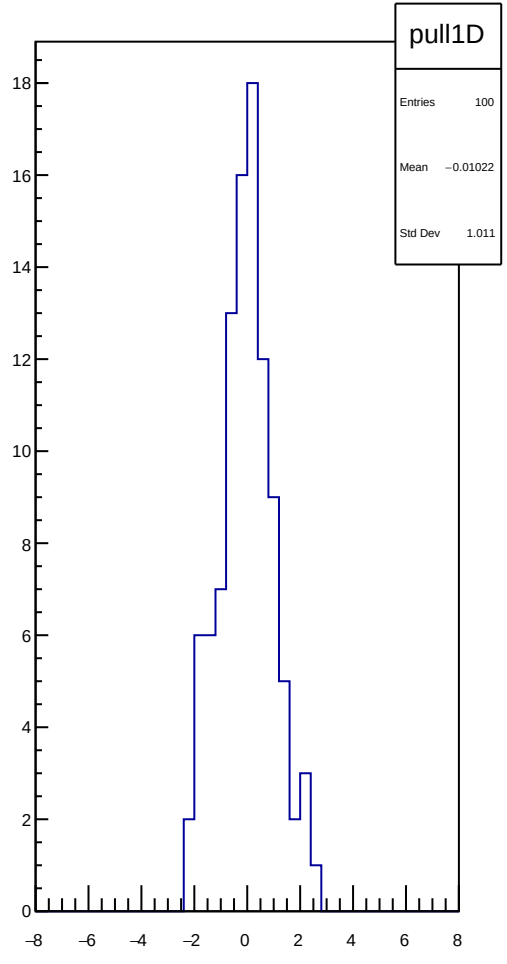

dit_asym_atr_dd_rms vs run
χ² / ndf 1.126e+04 / 99
p0 2047 ± 1.48
2300
2200
2100
2000
1900
1800

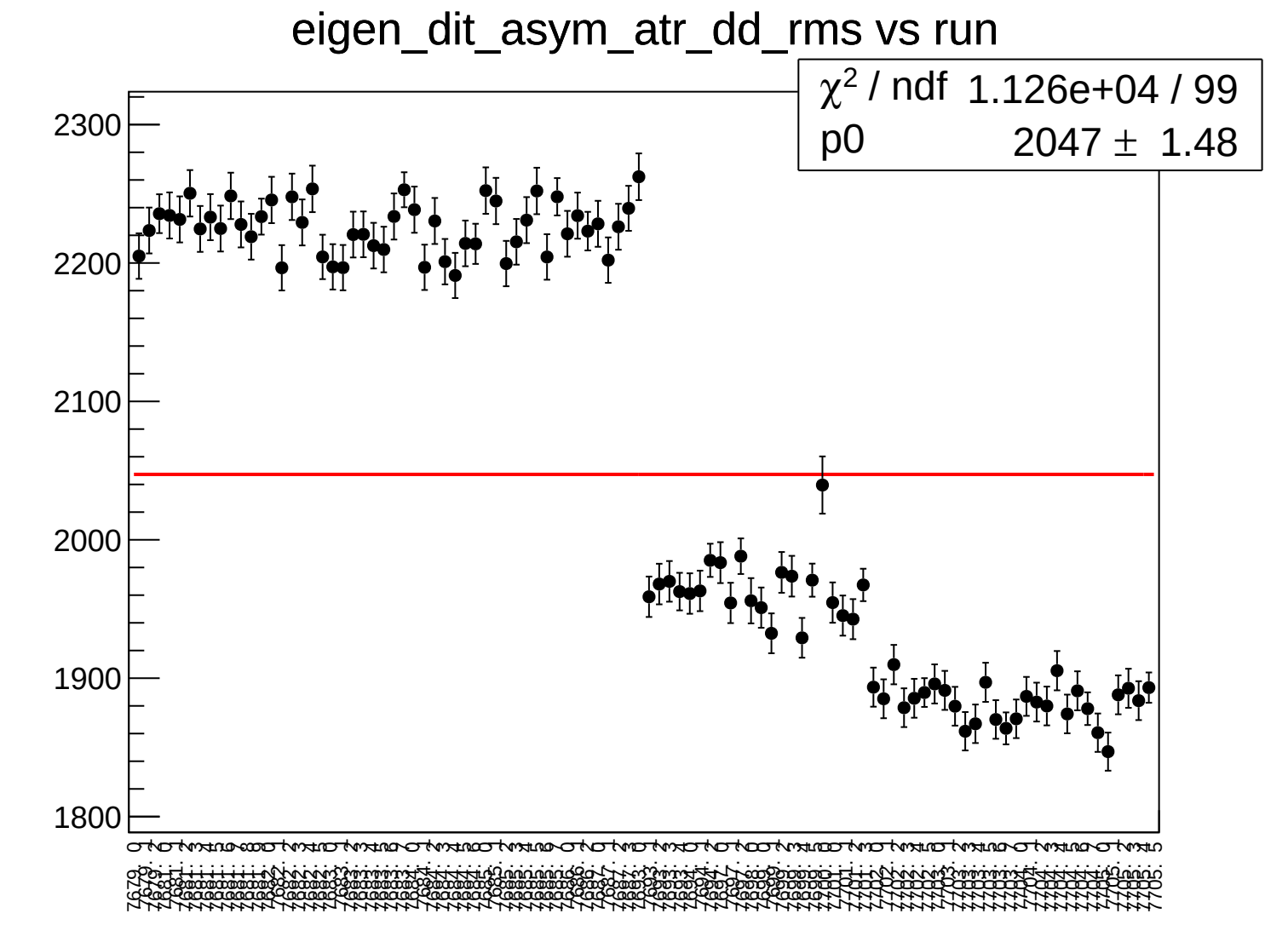

asym_atr_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 99.04 / 99
p0 −4407 ± 5346
200
100
0
−100
−200
pull
Entries 100
Mean 322.8
Std Dev 0
2
1
0
−1
−2

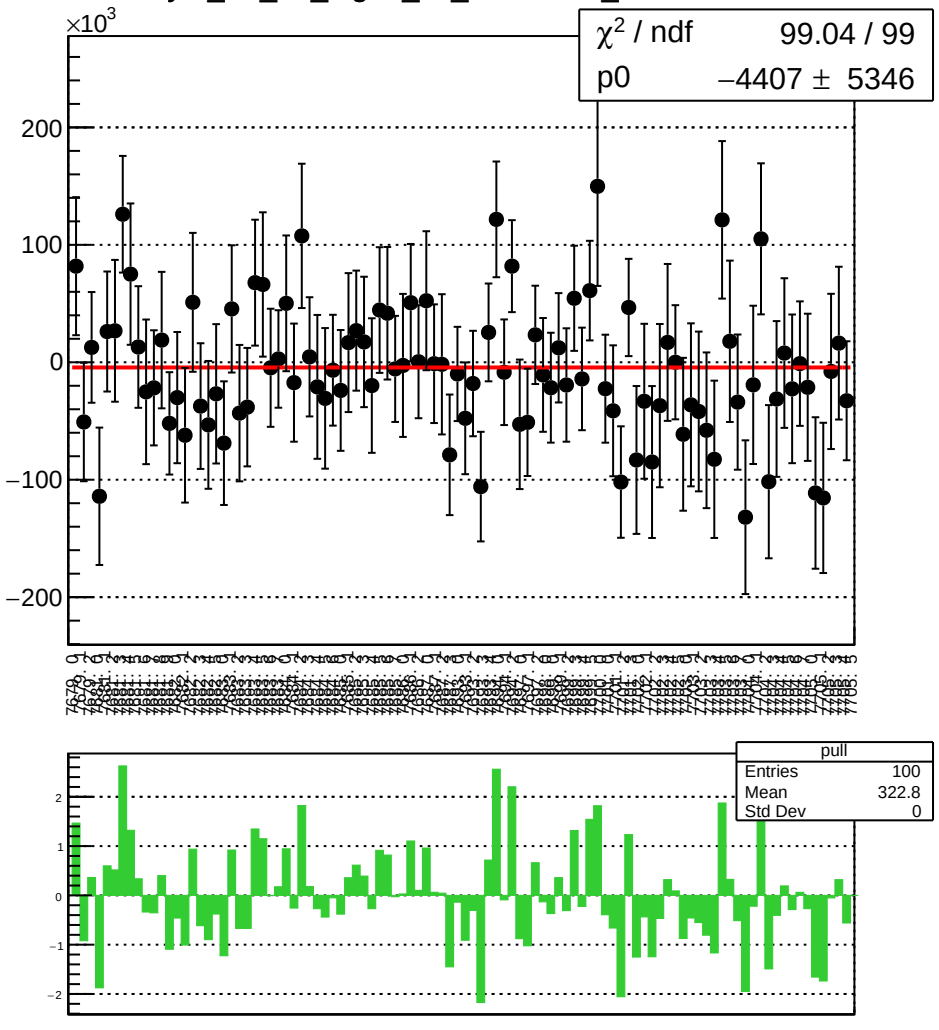

pull1D
Entries 100
Mean −0.01908
Std Dev 0.995
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

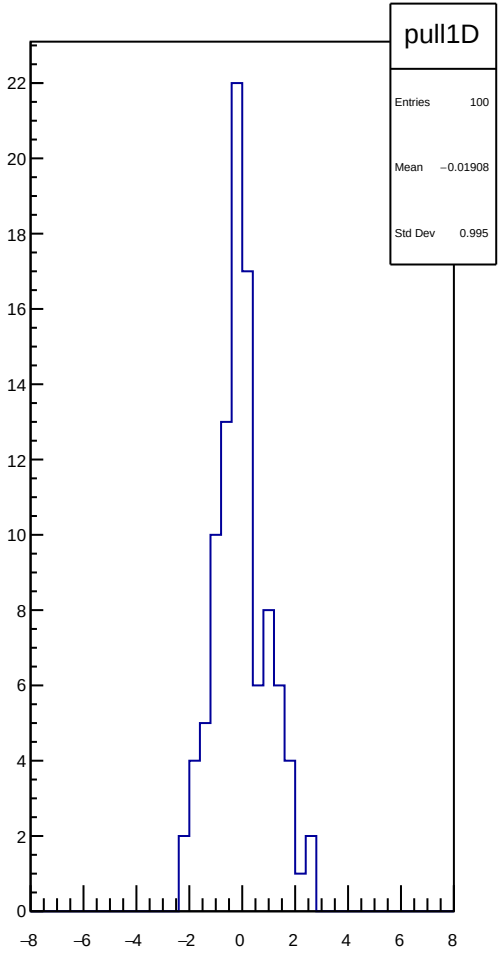

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 3.382e+04 / 99
p0 5199 ± 3.781
6500
6000
5500
5000
4500
4000
3500

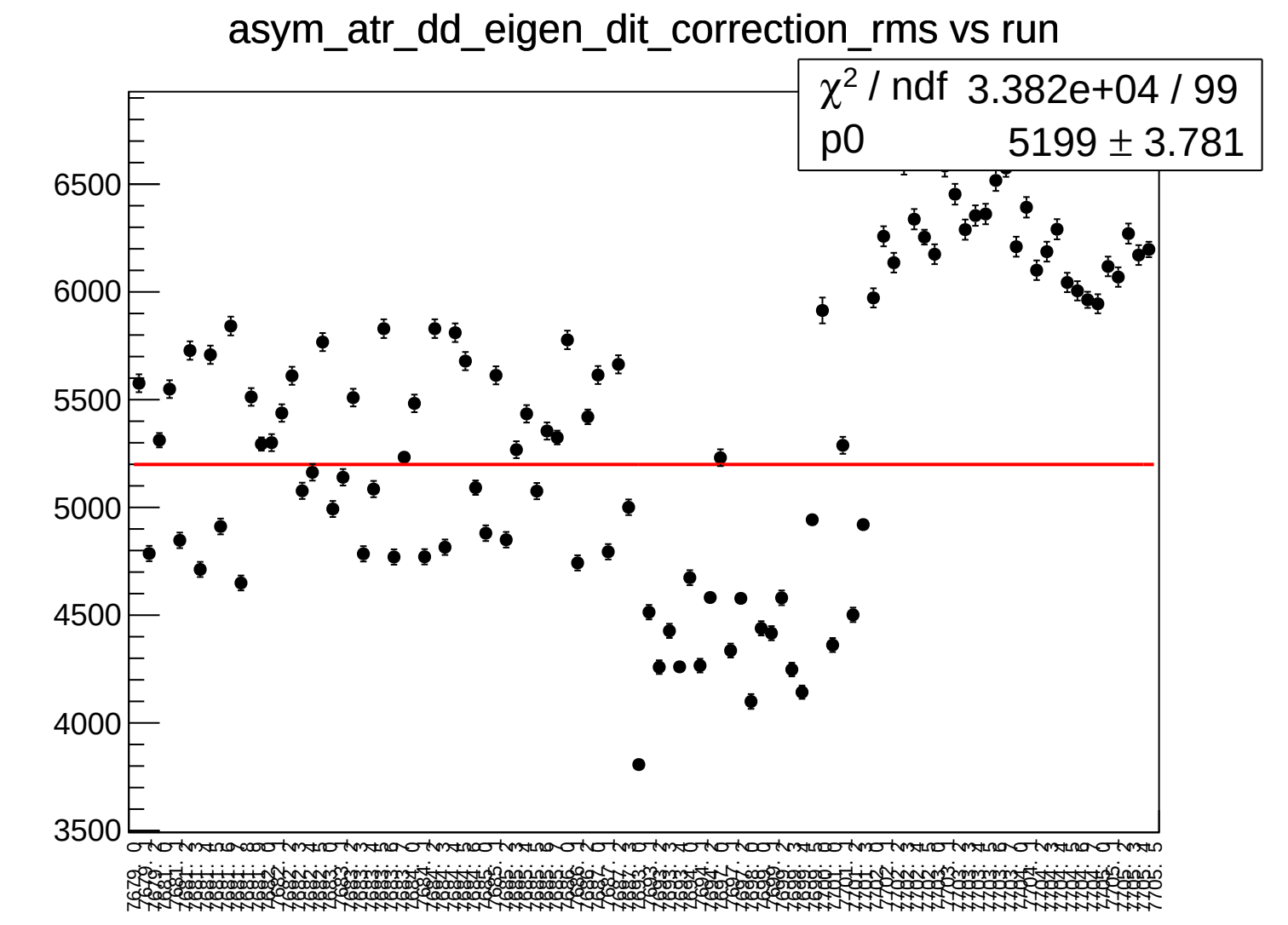

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 102.2 / 99
p0 1075 ± 2093
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean 51.58
Std Dev 116.1
2
1
0
−1
−2

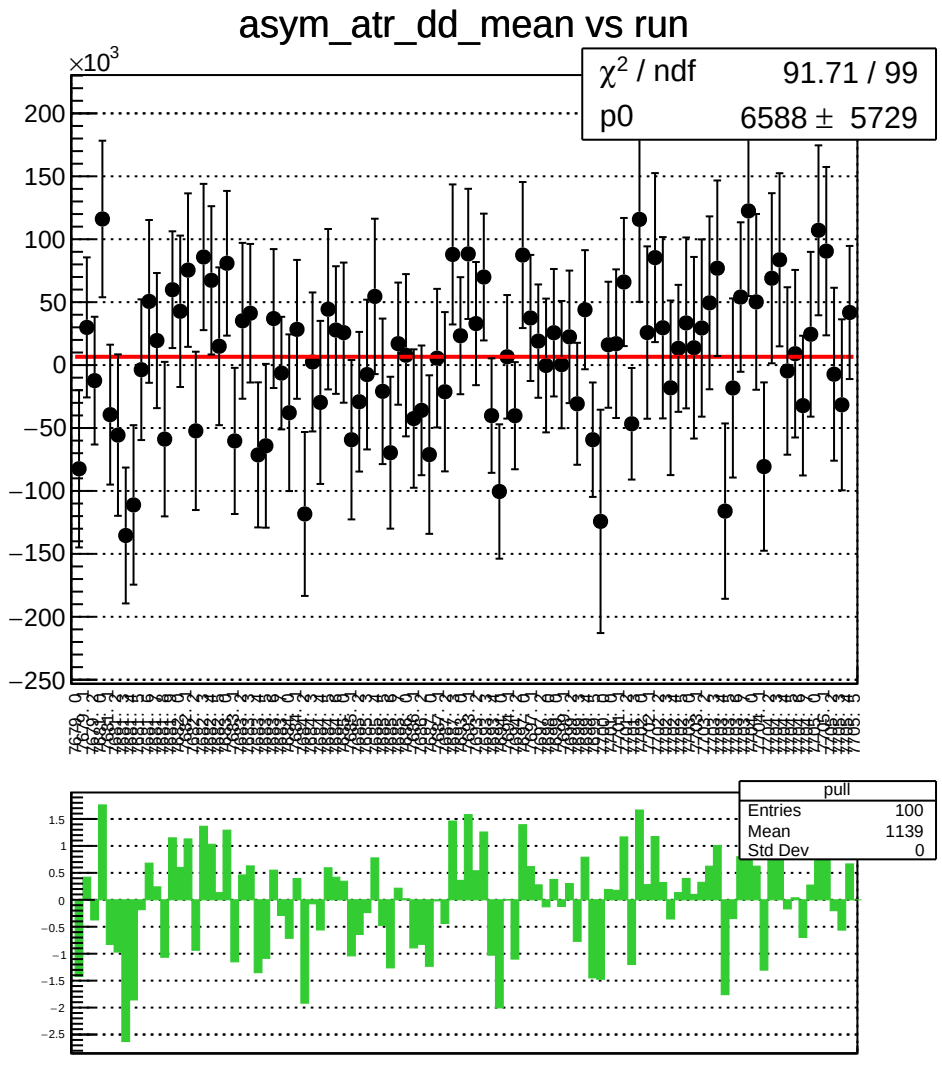

pull1D
Entries 100
Mean −0.01022
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

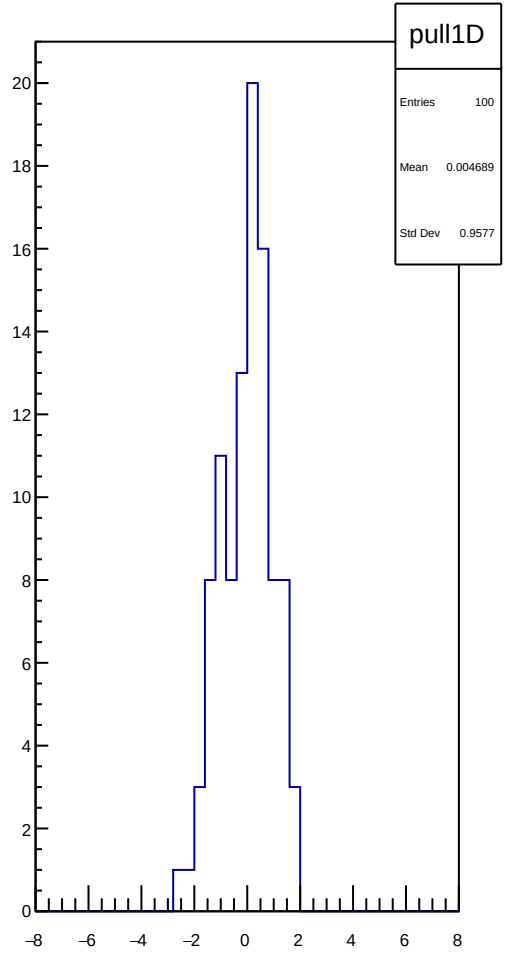

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 1.126e+04 / 99
p0 2047 ± 1.48
2300
2200
2100
2000
1900
1800

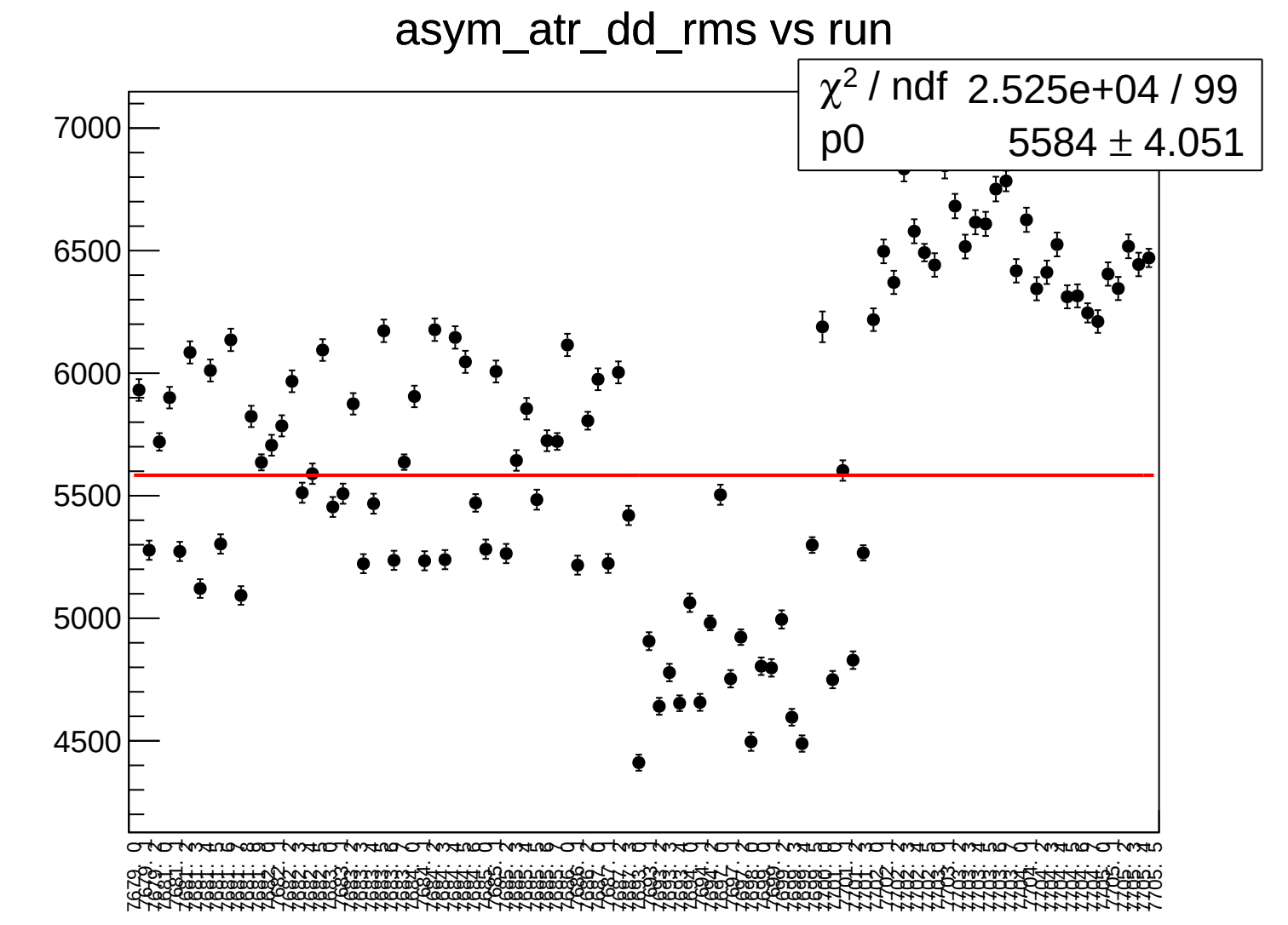

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 99.04 / 99
p0 −4407 ± 5346
200
100
0
−100
−200
pull
Entries 100
Mean 322.8
Std Dev 0
2
1
0
−1
−2

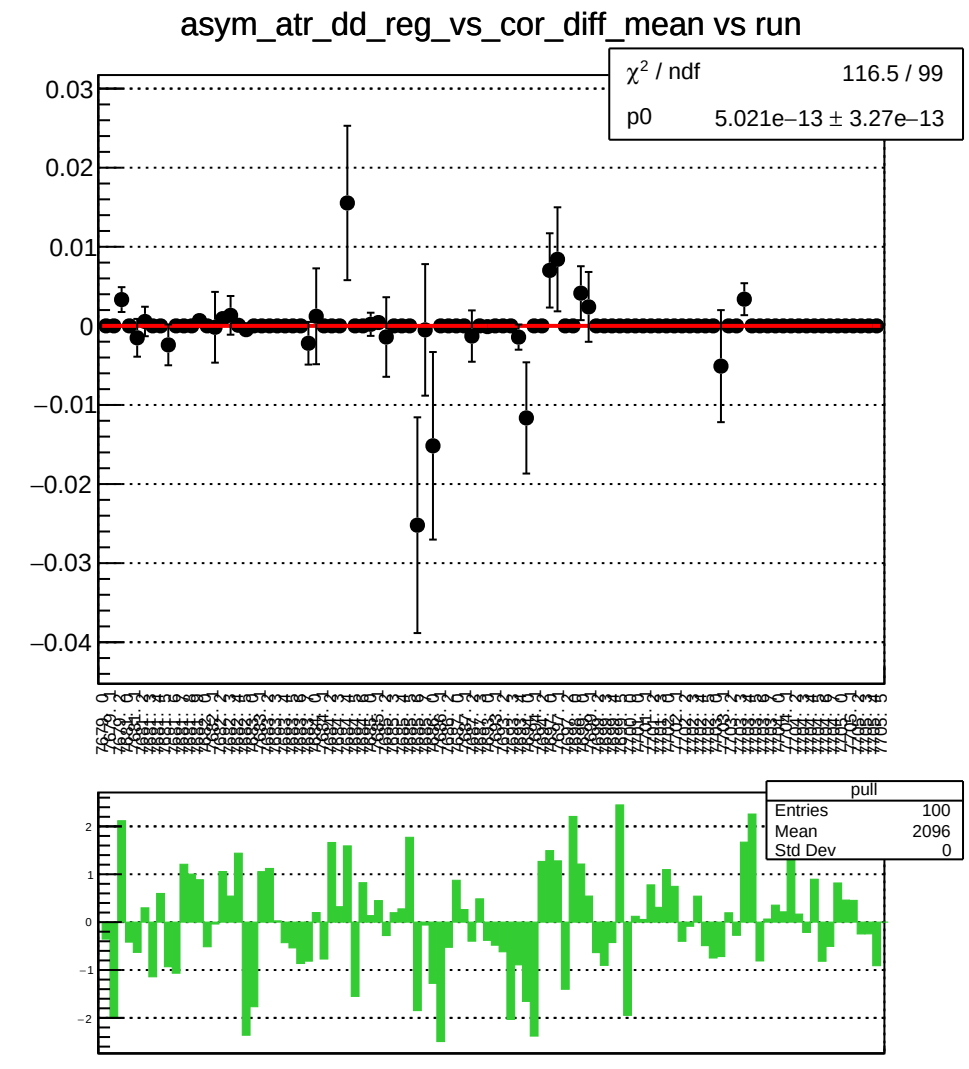

pull1D
Entries 100
Mean −0.01908
Std Dev 0.995
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

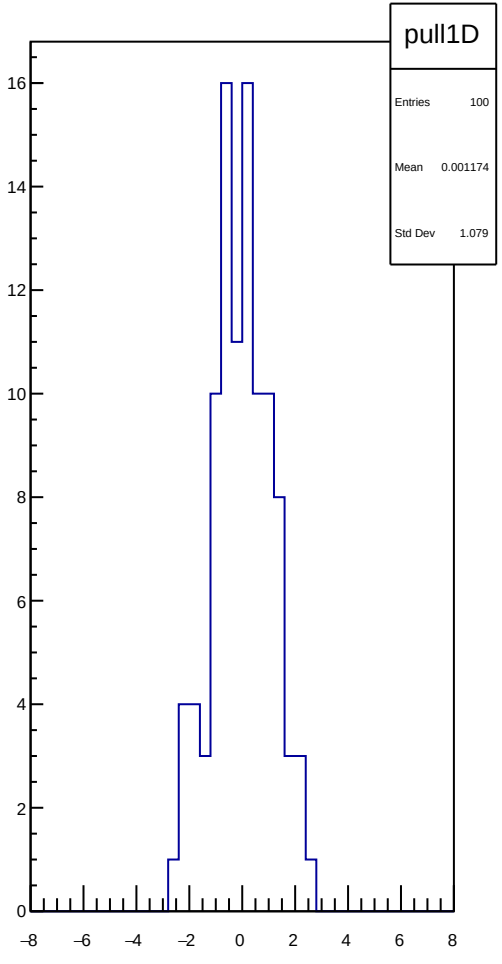

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.382e+04 / 99
p0 5199 ± 3.781
6500
6000
5500
5000
4500
4000
3500

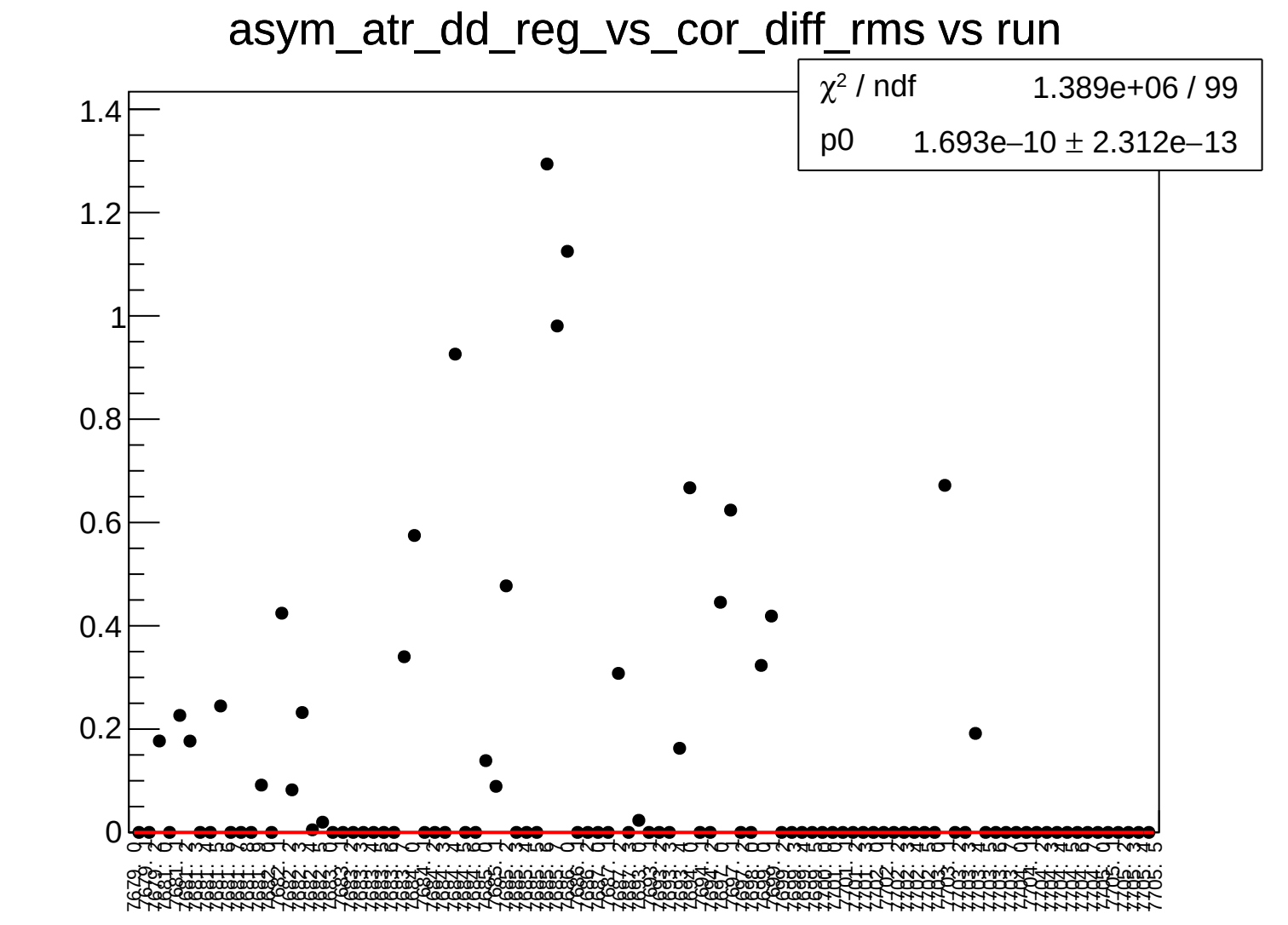

asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 91.71 / 99
p0 6588 ± 5729
pull
Entries 100
Mean 1139
Std Dev 0

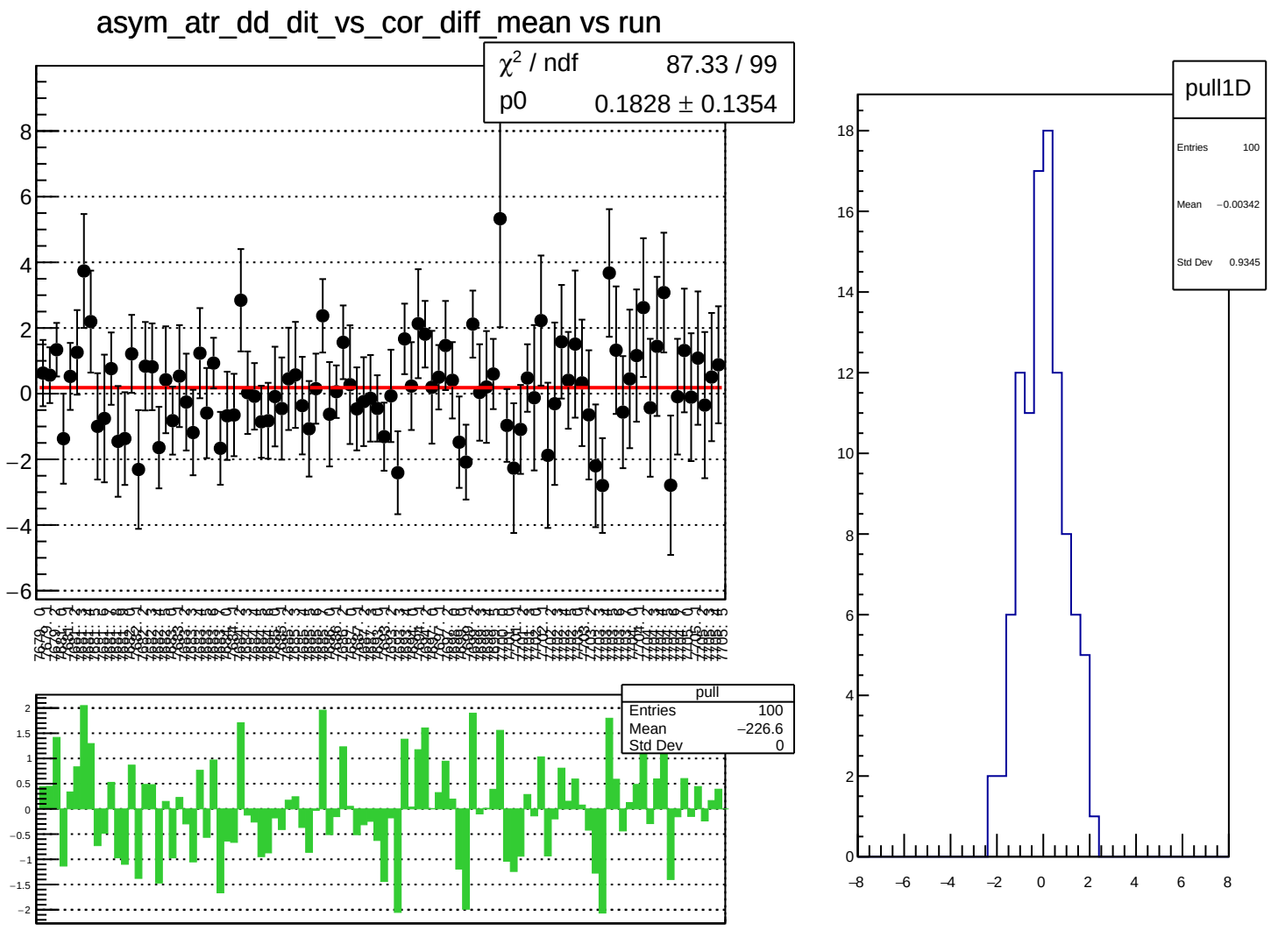

pull1D
Entries 100
Mean 0.004689
Std Dev 0.9577

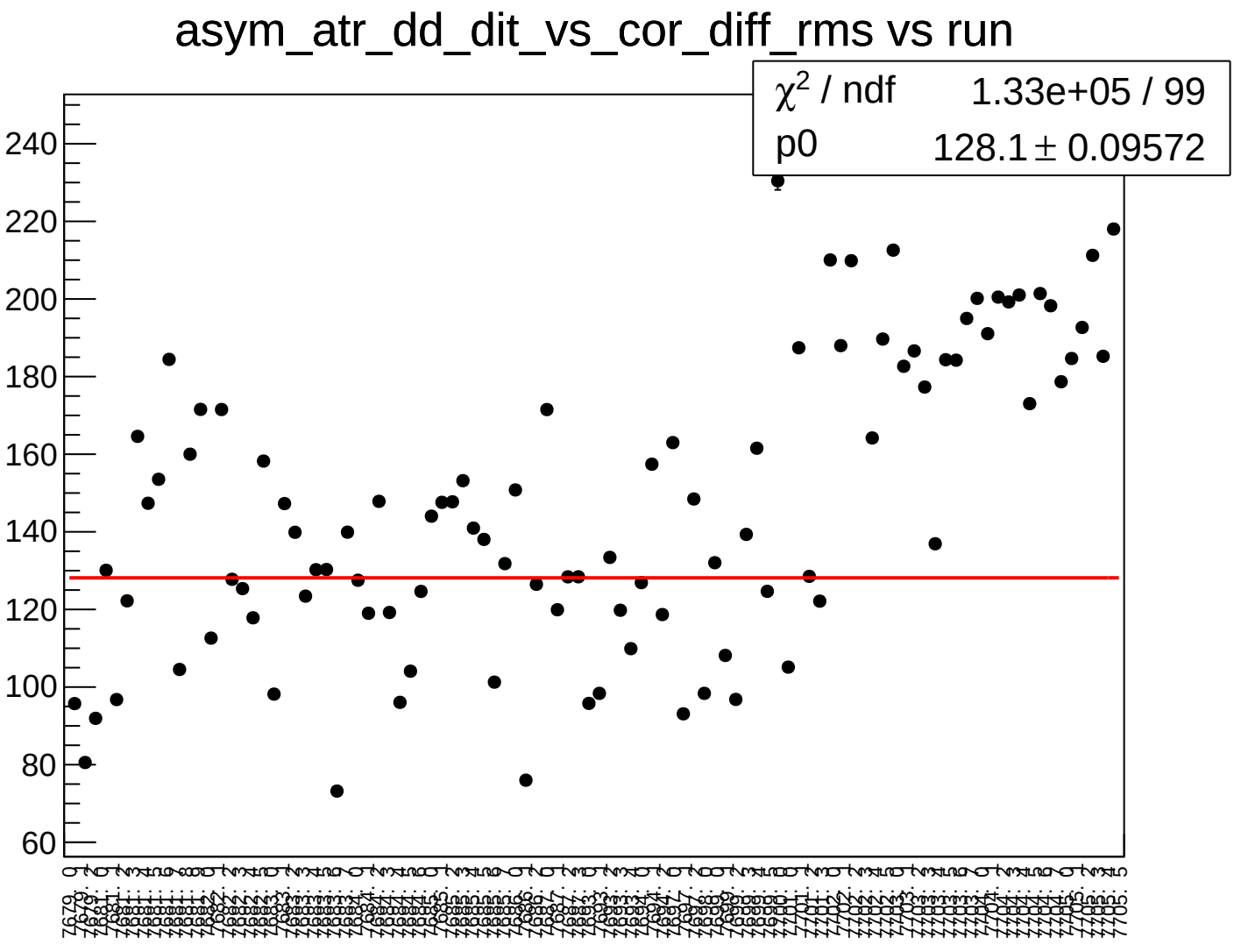

asym_atr_dd_rms vs run
χ² / ndf 2.525e+04 / 99
p0 5584 ± 4.051
7000
6500
6000
5500
5000
4500

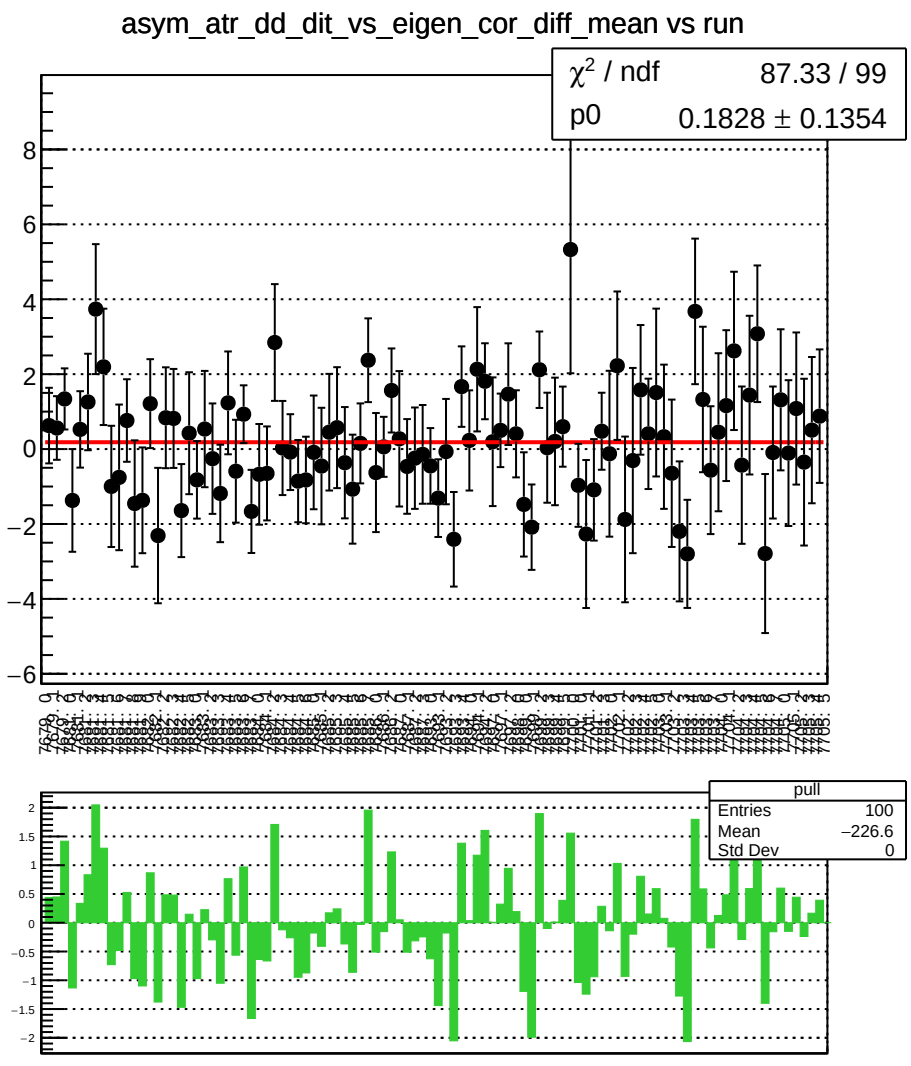

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 116.5 / 99
p0 5.021e−13 ± 3.27e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 100
Mean 2096
Std Dev 0
2
1
0
−1
−2

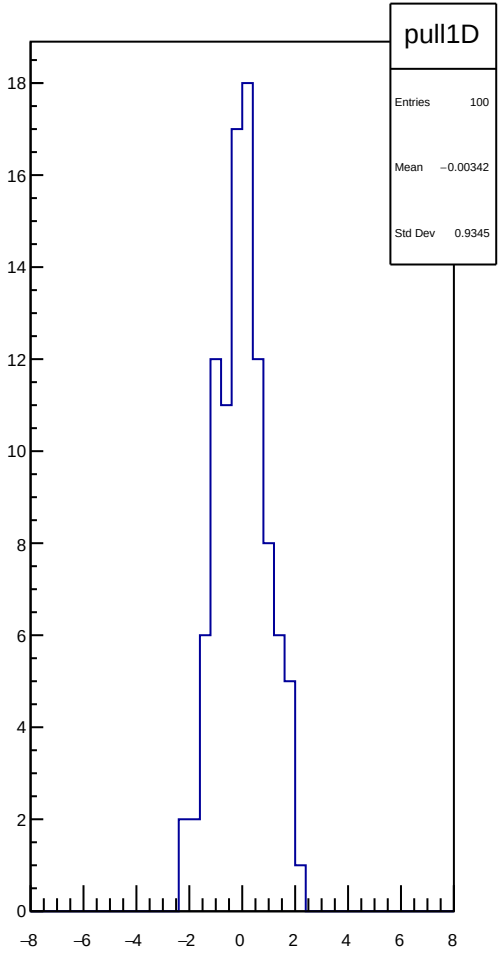

pull1D
Entries 100
Mean 0.001174
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

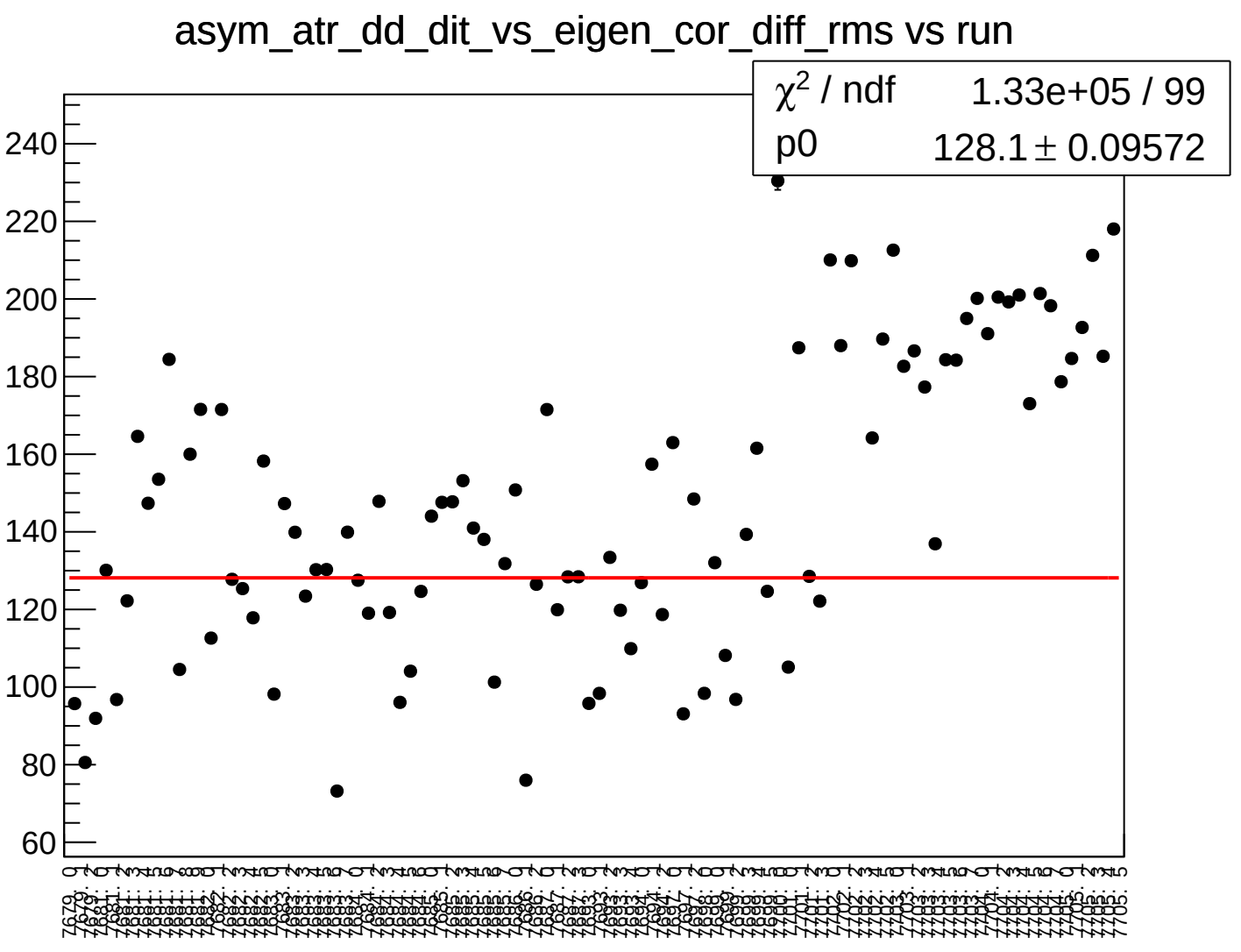

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.389e+06 / 99
p0 1.693e−10 ± 2.312e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

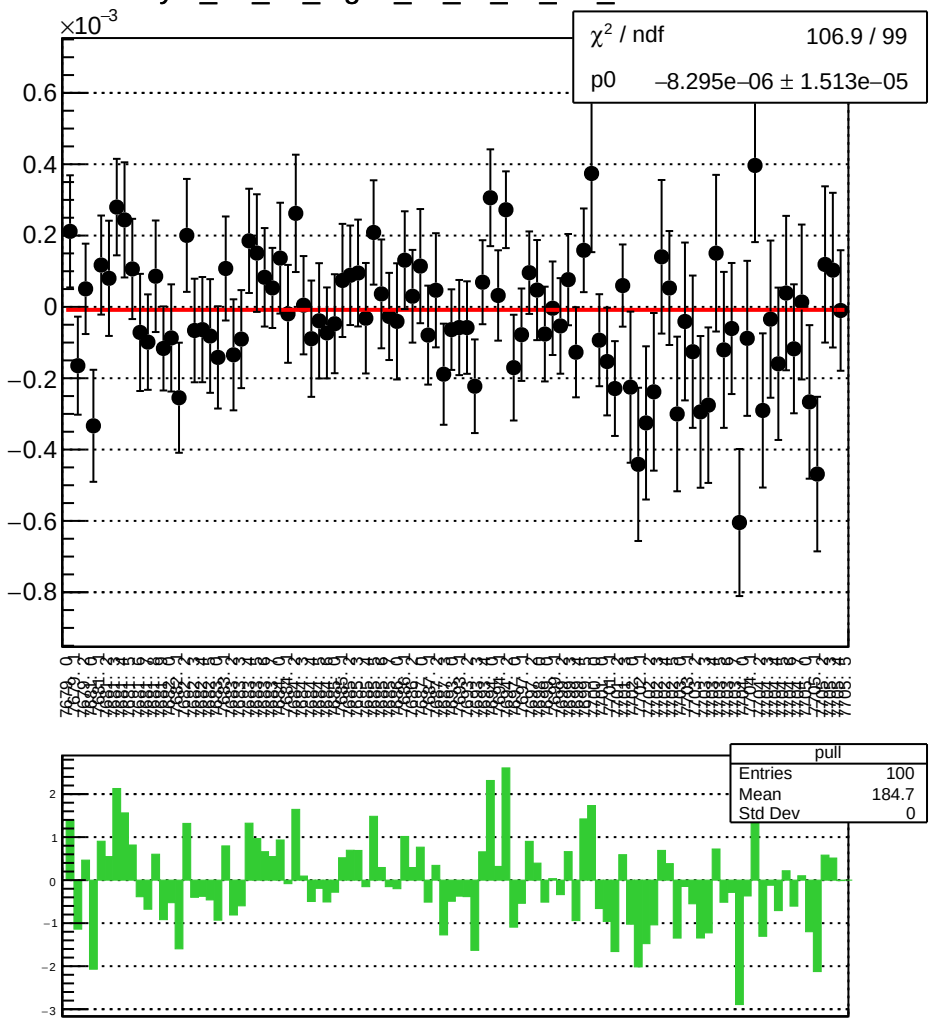

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.33 / 99
p0 0.1828 ± 0.1354
pull
Entries 100
Mean −226.6
Std Dev 0
pull1D
Entries 100
Mean −0.00342
Std Dev 0.9345

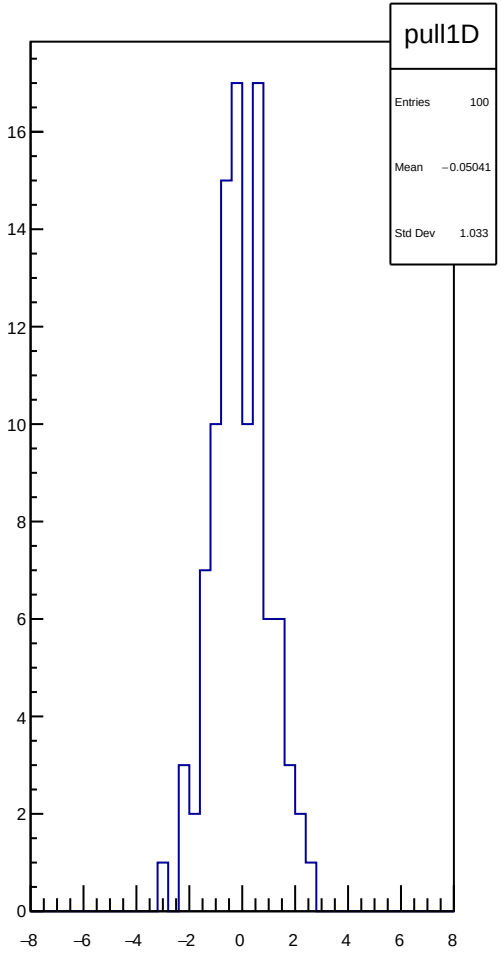

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.33e+05 / 99
p0 128.1 ± 0.09572
240
220
200
180
160
140
120
100
80
60

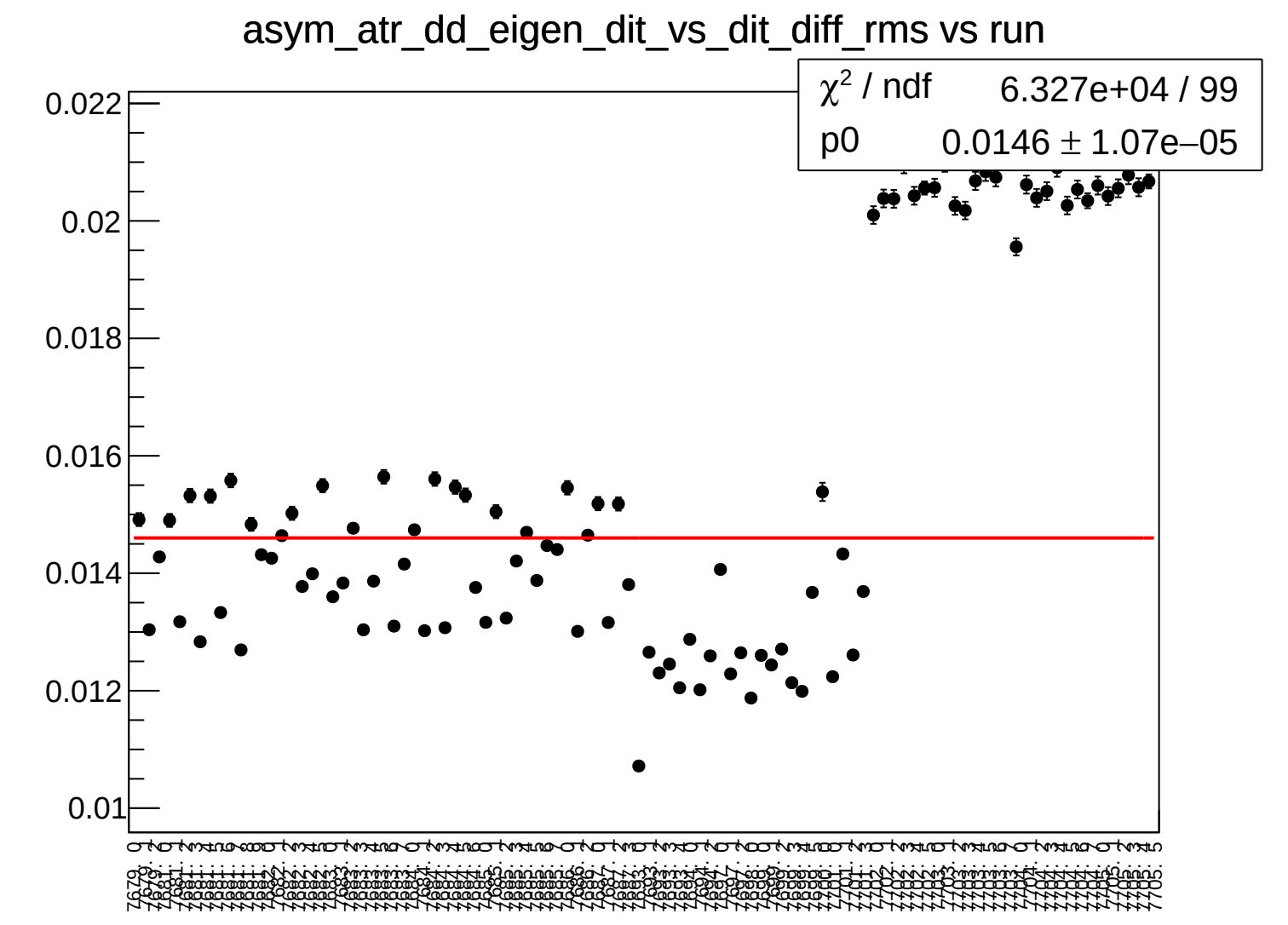

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.33 / 99
p0 0.1828 ± 0.1354
pull
Entries 100
Mean −226.6
Std Dev 0

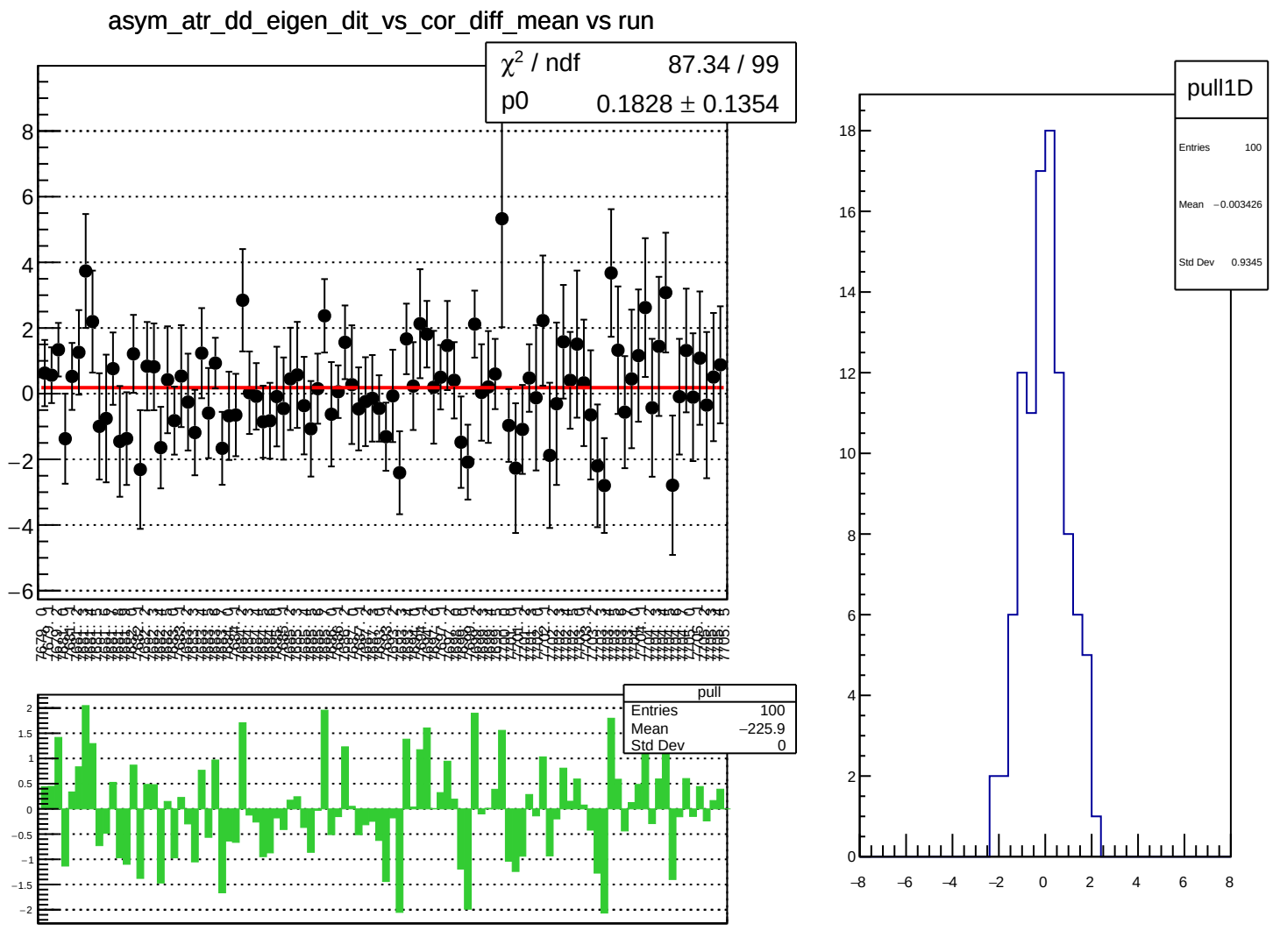

pull1D
Entries 100
Mean −0.00342
Std Dev 0.9345

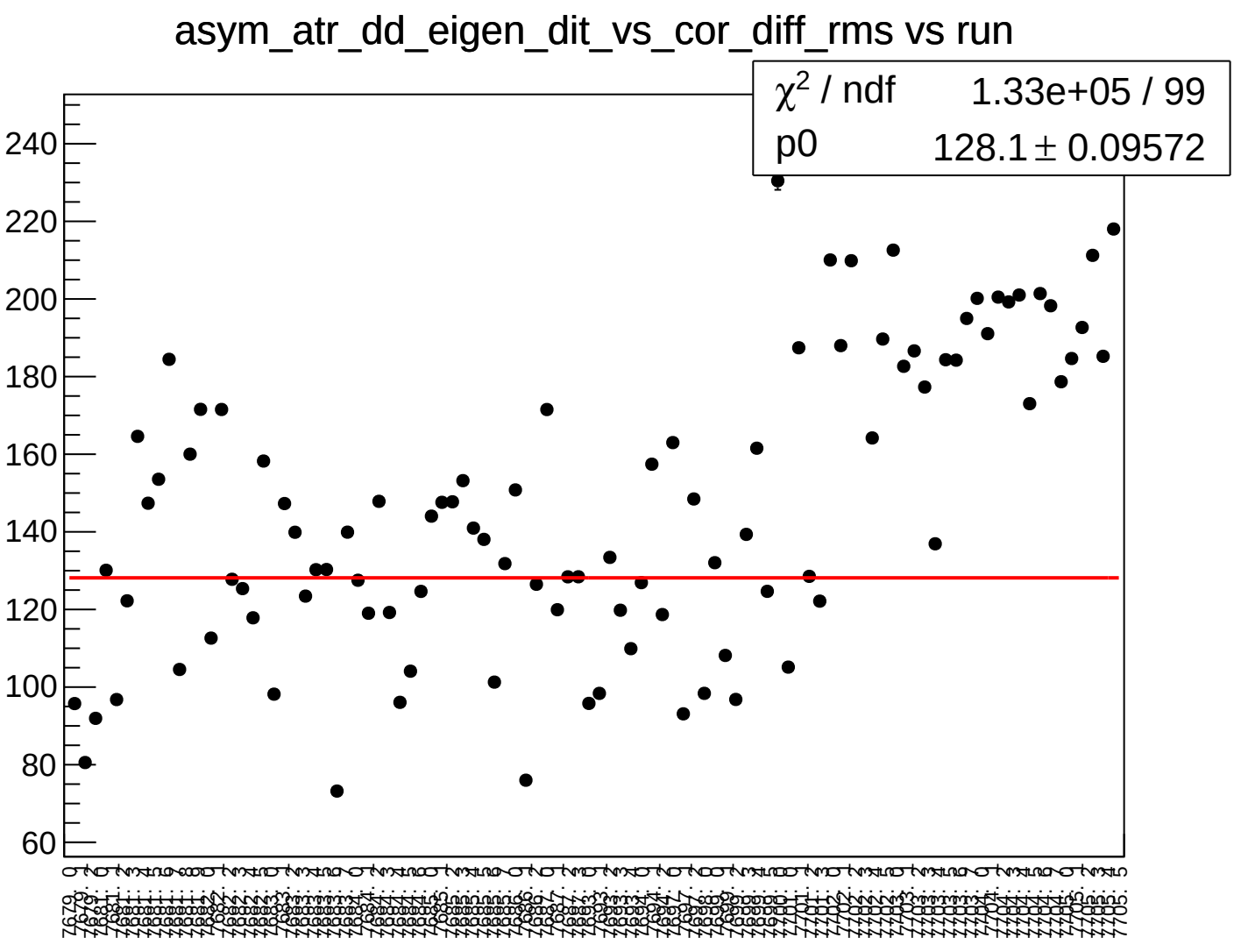

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.33e+05 / 99
p0 128.1 ± 0.09572
240
220
200
180
160
140
120
100
80
60

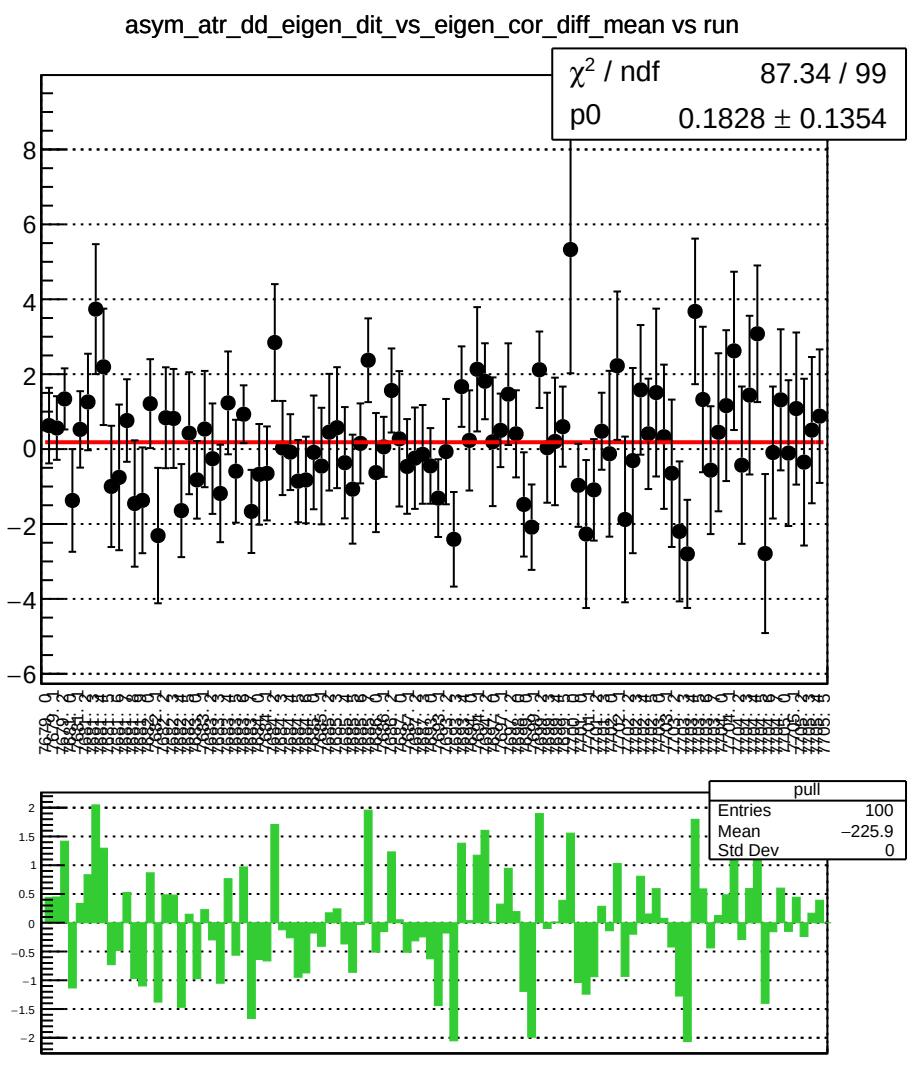

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 106.9 / 99
p0 −8.295e−06 ± 1.513e−05
pull
Entries 100
Mean 184.7
Std Dev 0

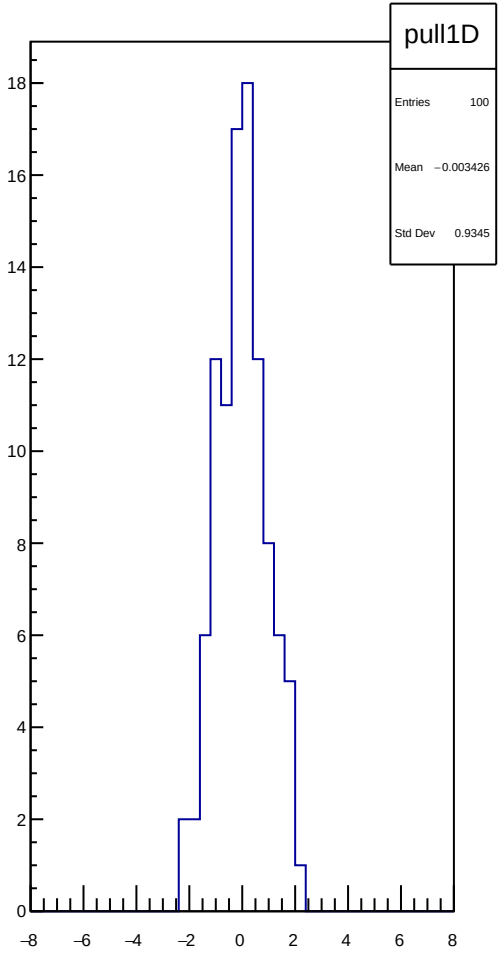

pull1D
Entries 100
Mean −0.05041
Std Dev 1.033

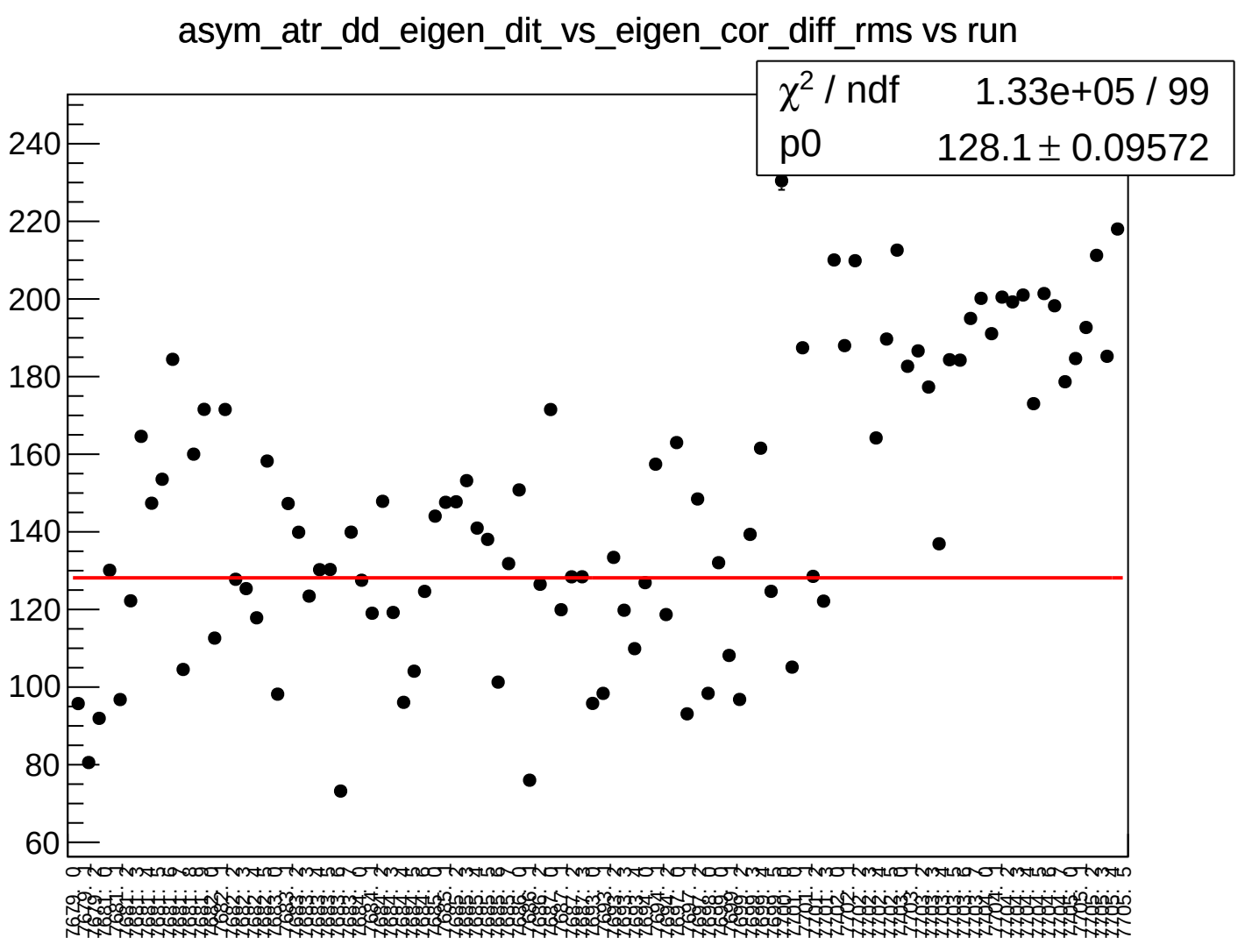

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.327e+04 / 99
p0 0.0146 ± 1.07e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01

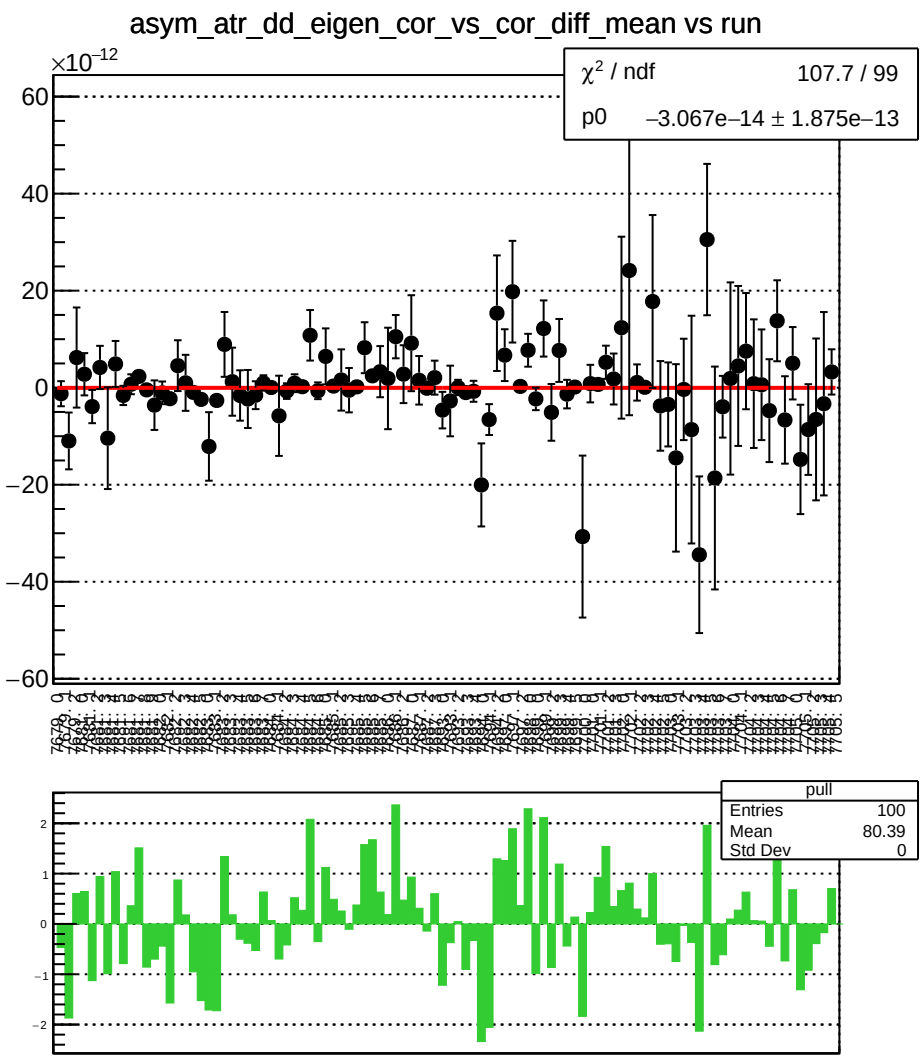

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.34 / 99
p0 0.1828 ± 0.1354
pull
Entries 100
Mean −225.9
Std Dev 0
pull1D
Entries 100
Mean −0.003426
Std Dev 0.9345

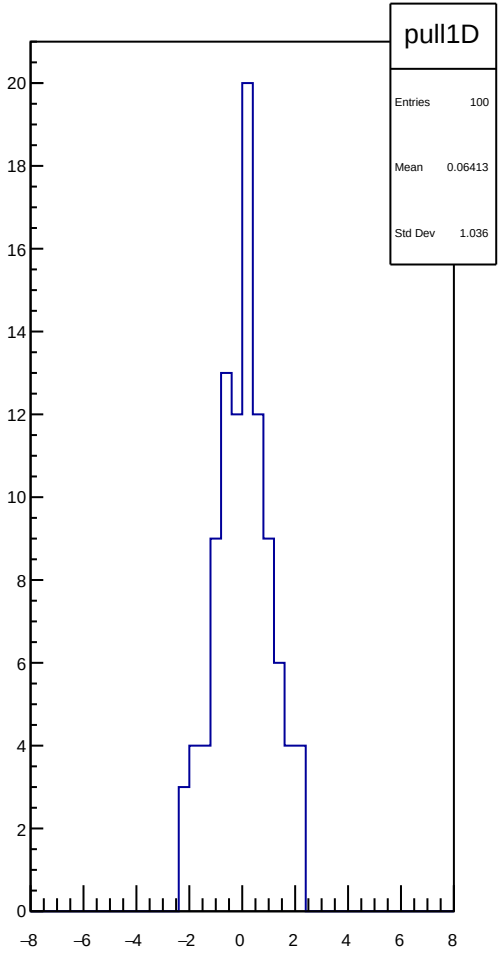

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.33e+05 / 99
p0 128.1 ± 0.09572
240
220
200
180
160
140
120
100
80
60

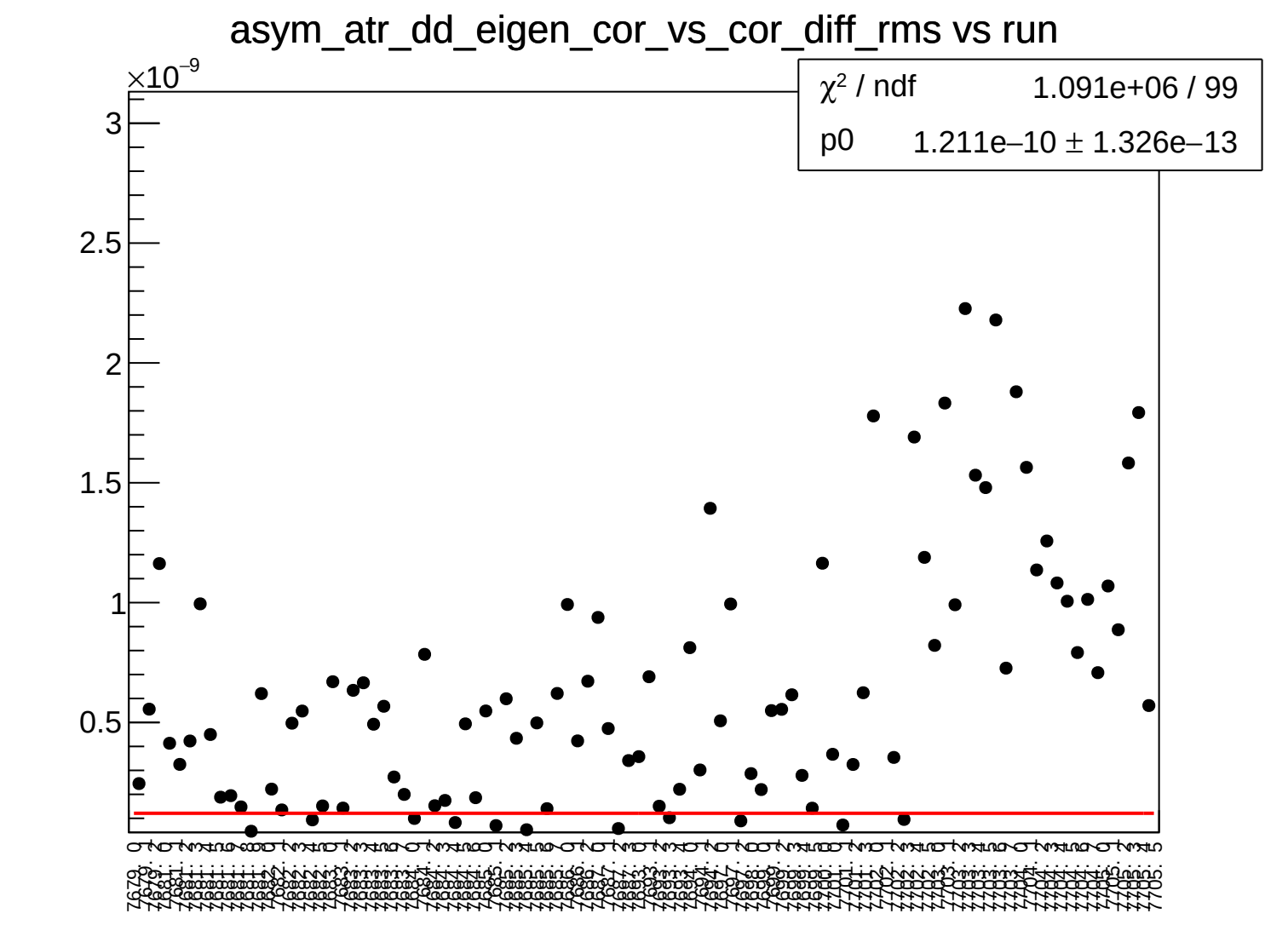

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.34 / 99
p0 0.1828 ± 0.1354
pull
Entries 100
Mean −225.9
Std Dev 0

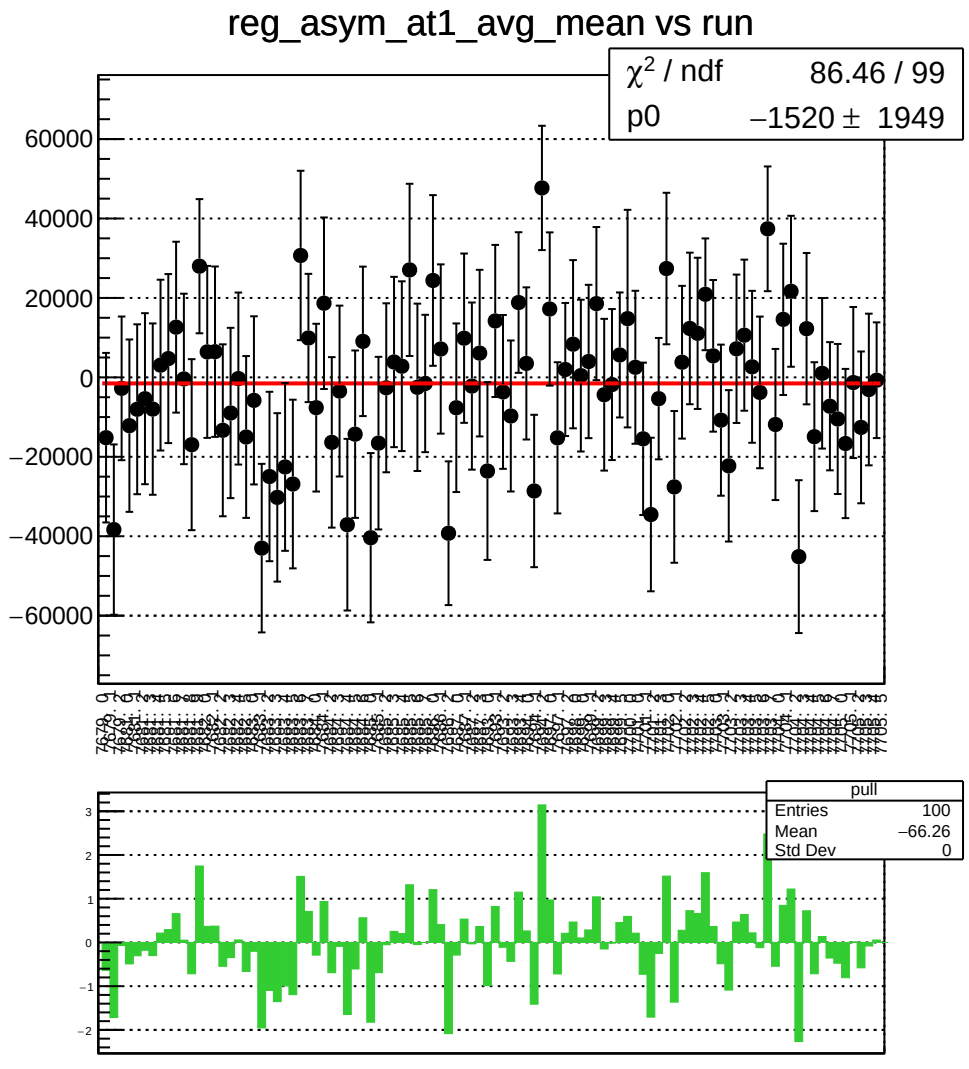

pull1D
Entries 100
Mean −0.003426
Std Dev 0.9345

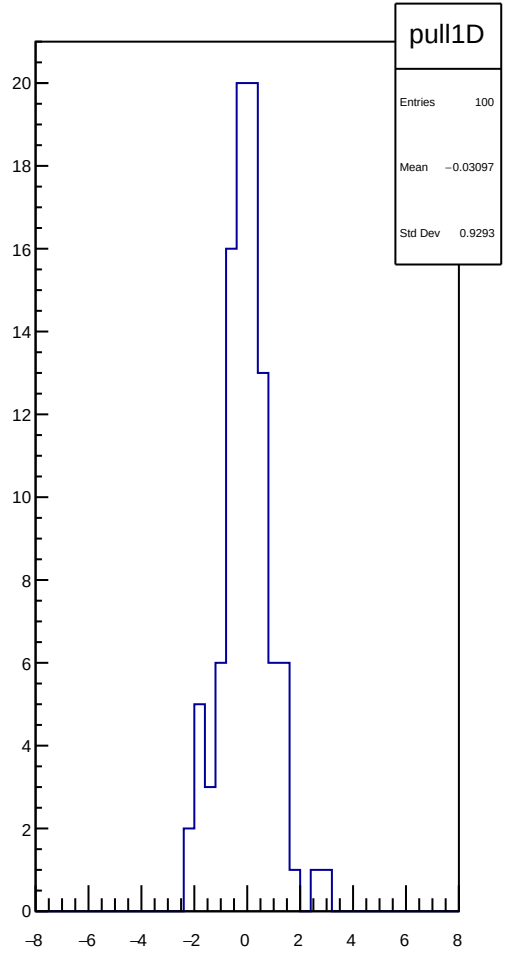

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.33e+05 / 99
p0 128.1 ± 0.09572
240
220
200
180
160
140
120
100
80
60

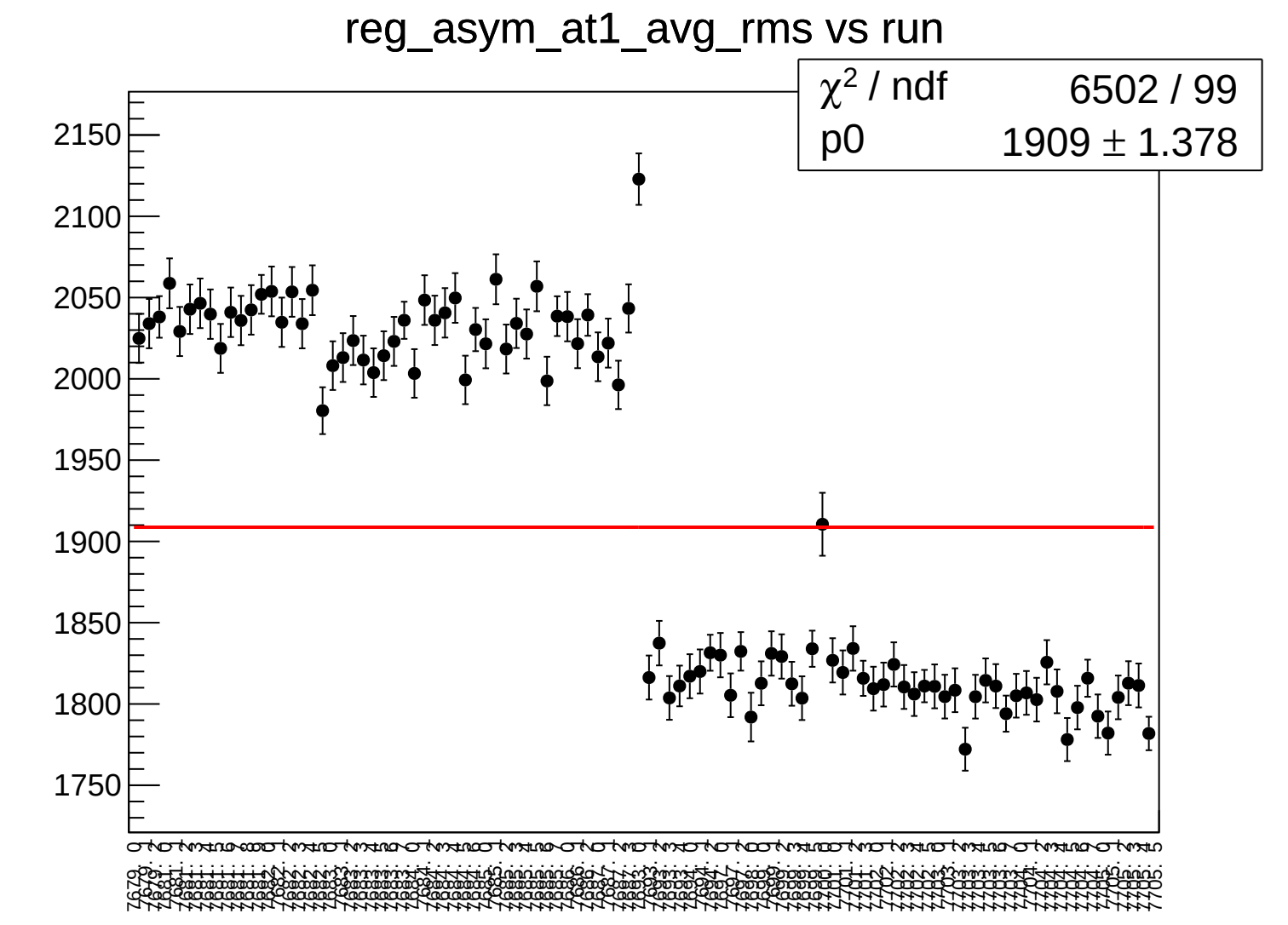

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 107.7 / 99
p0 −3.067e−14 ± 1.875e−13
pull
Entries 100
Mean 80.39
Std Dev 0

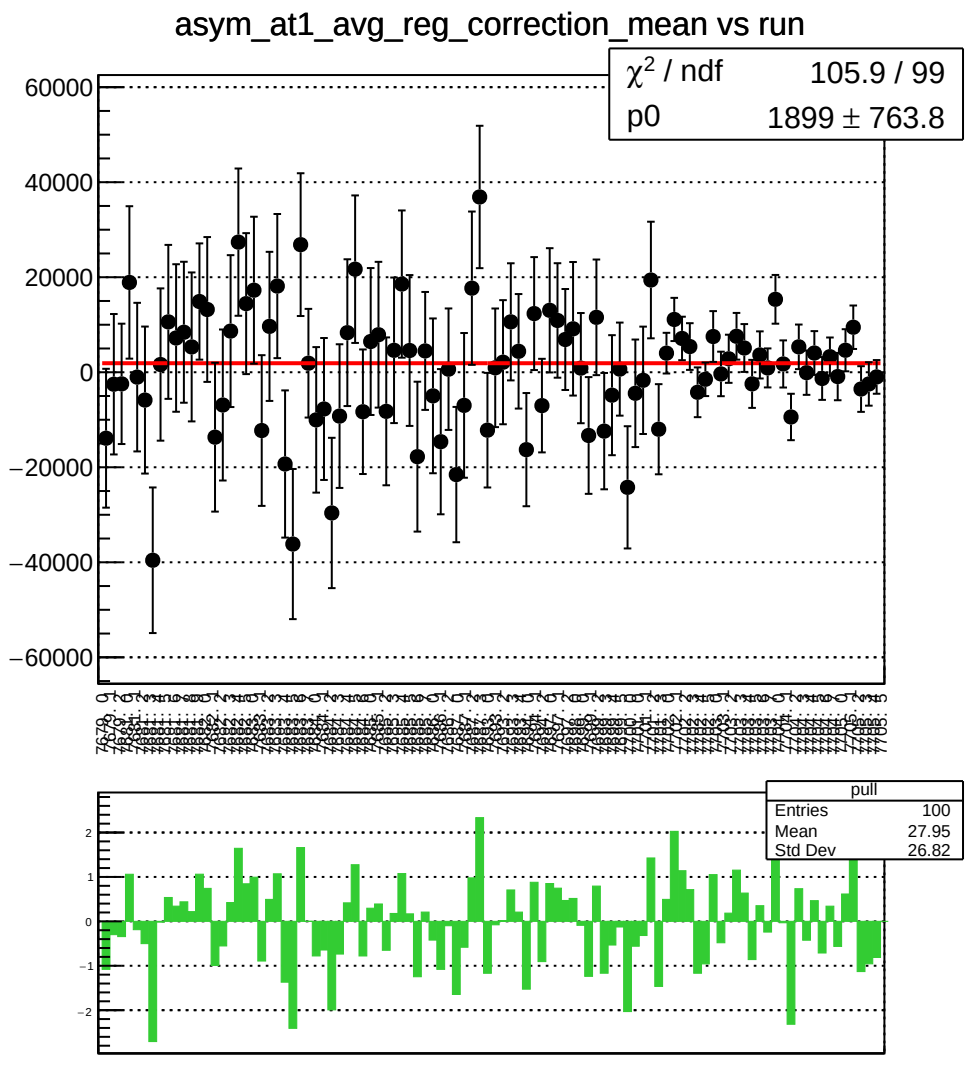

pull1D
Entries 100
Mean 0.06413
Std Dev 1.036

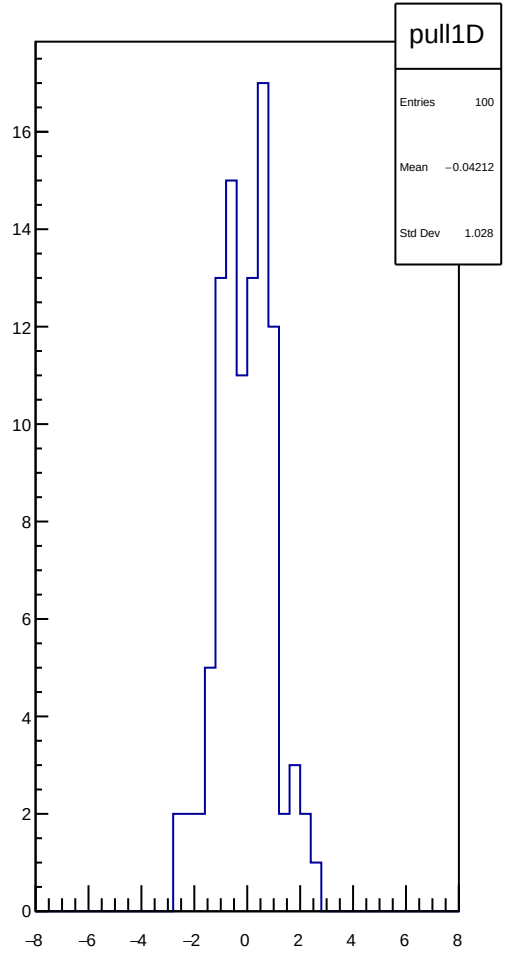

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.091e+06 / 99
p0 1.211e−10 ± 1.326e−13
3
2.5
2
1.5
1
0.5


reg_asym_at1_avg_mean vs run
χ² / ndf 86.46 / 99
p0 −1520 ± 1949
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −66.26
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 100
Mean −0.03097
Std Dev 0.9293
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at1_avg_rms vs run
χ² / ndf 6502 / 99
p0 1909 ± 1.378
2150
2100
2050
2000
1950
1900
1850
1800
1750


asym_at1_avg_reg_correction_mean vs run
χ² / ndf 105.9 / 99
p0 1899 ± 763.8
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean 27.95
Std Dev 26.82
2
1
0
−1
−2


pull1D
Entries 100
Mean −0.04212
Std Dev 1.028
16
14
12
10
8
6
4
2
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−8
−6
−4
−2
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2
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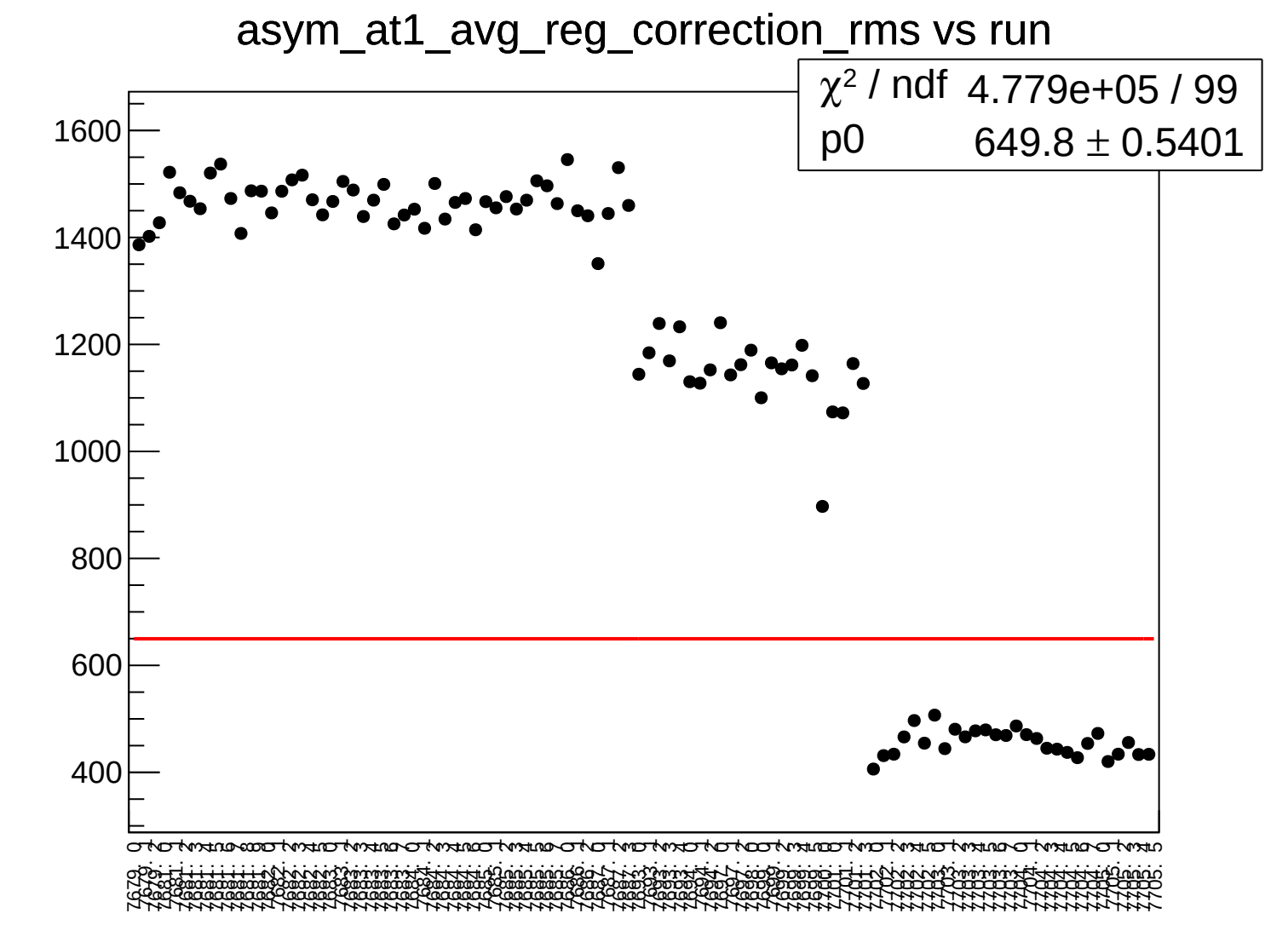
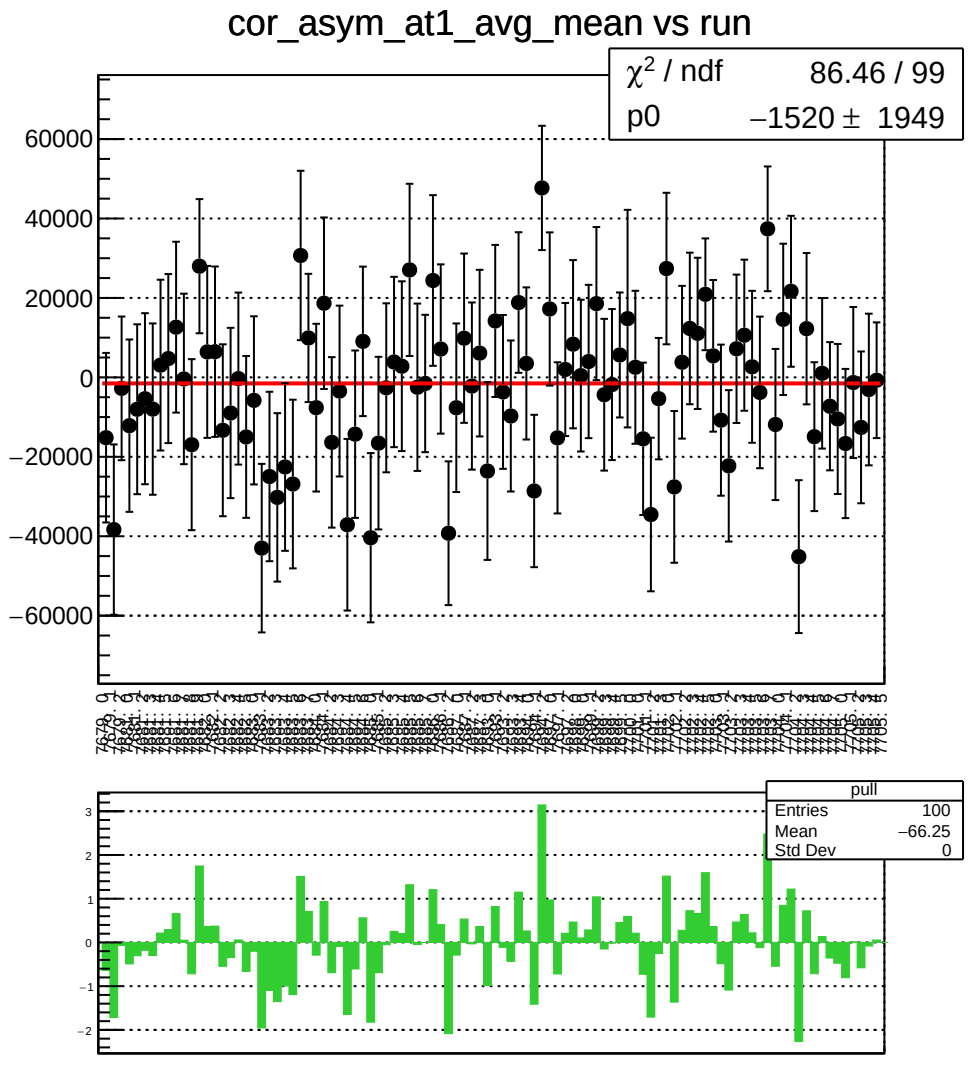
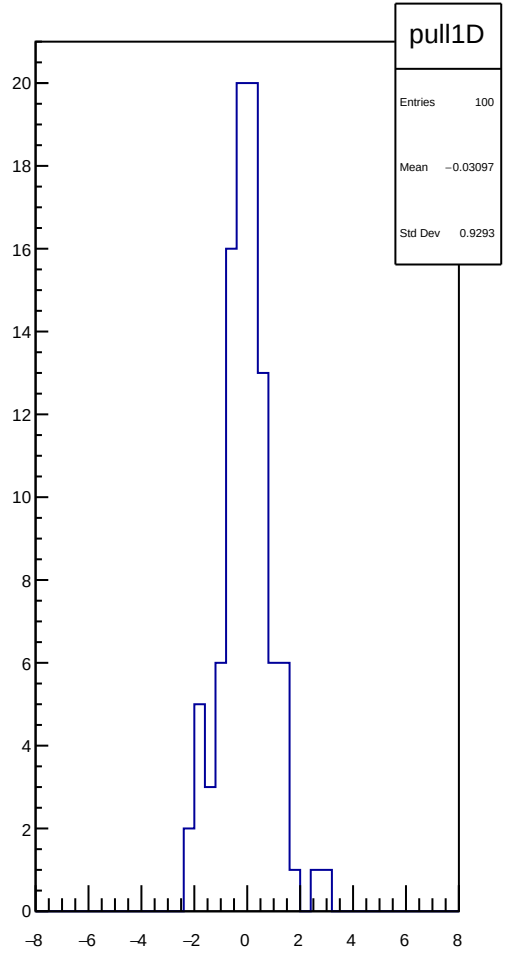
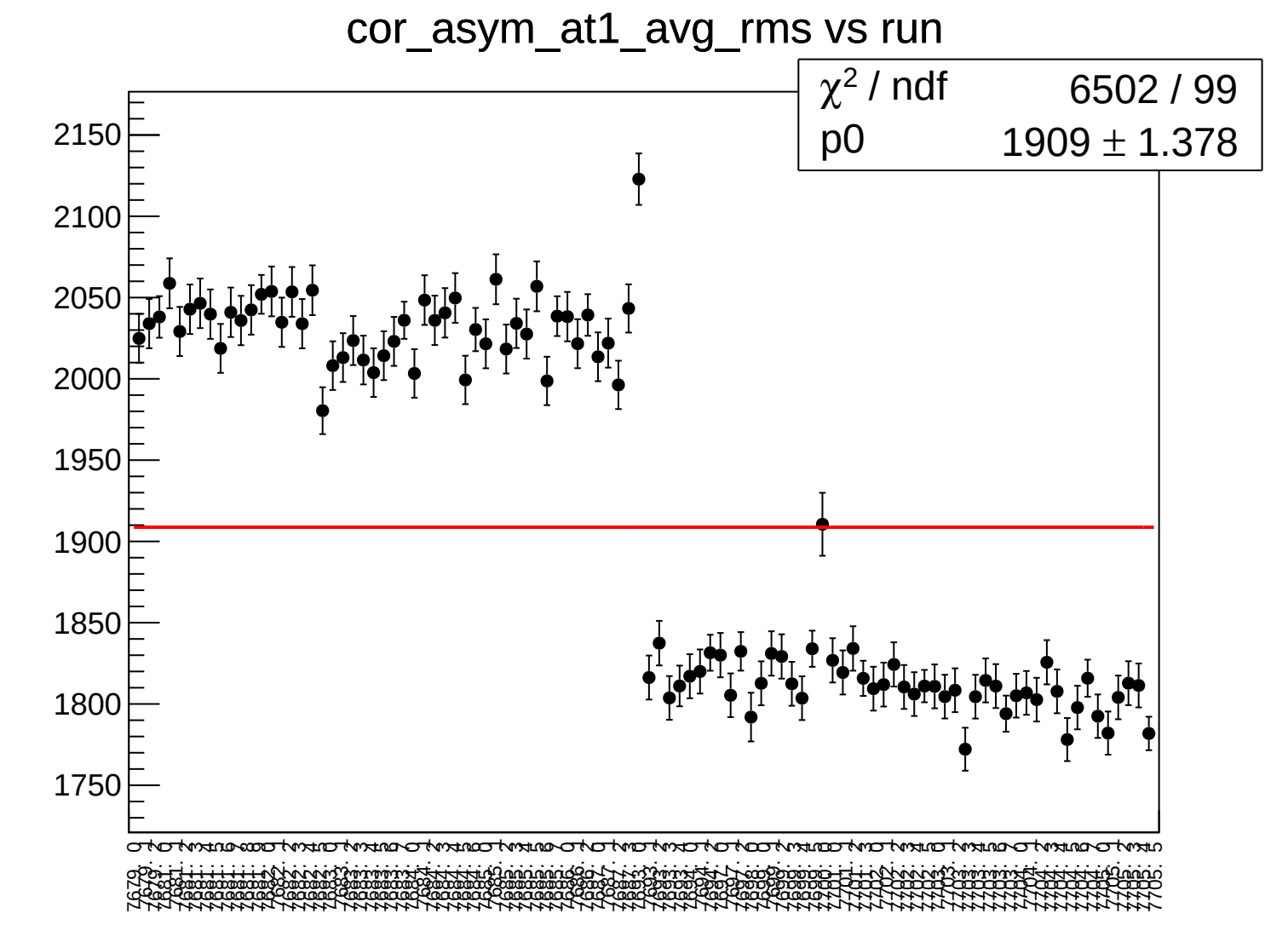
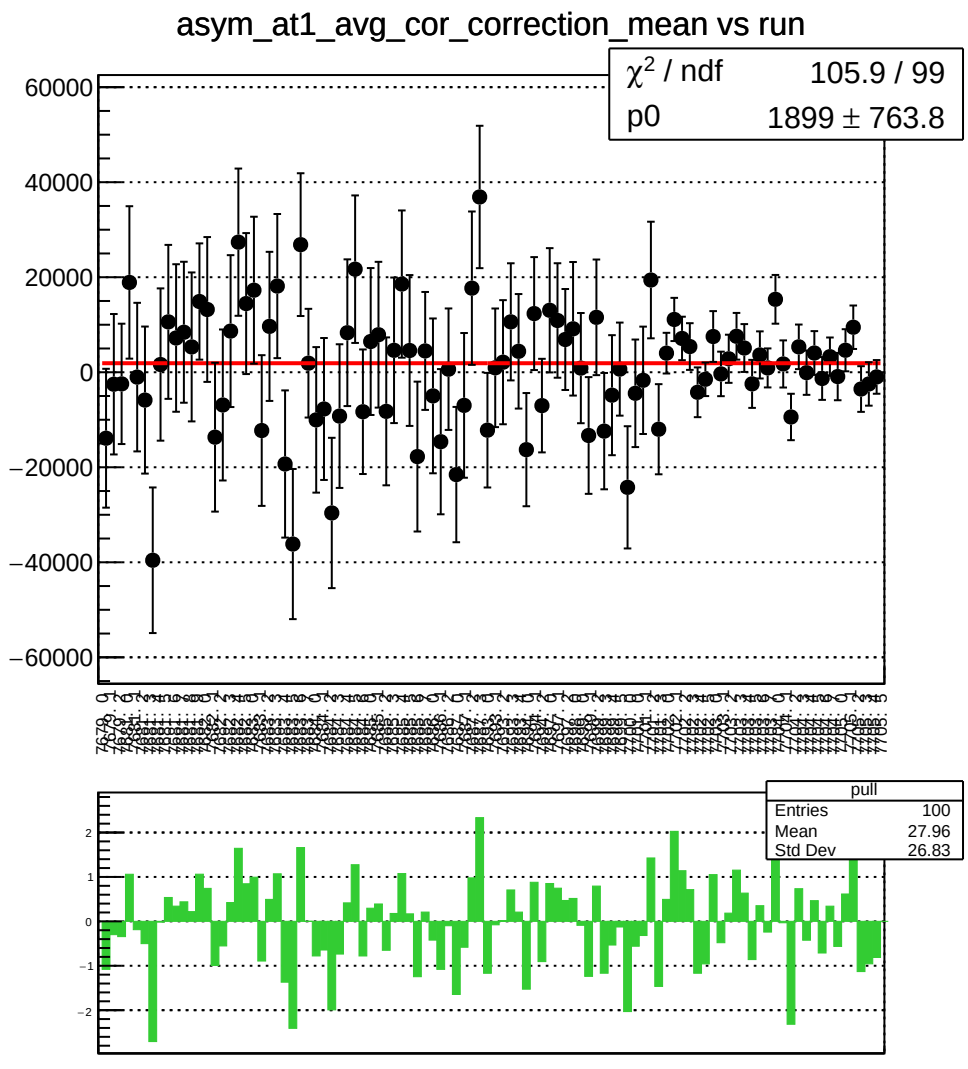
6
8

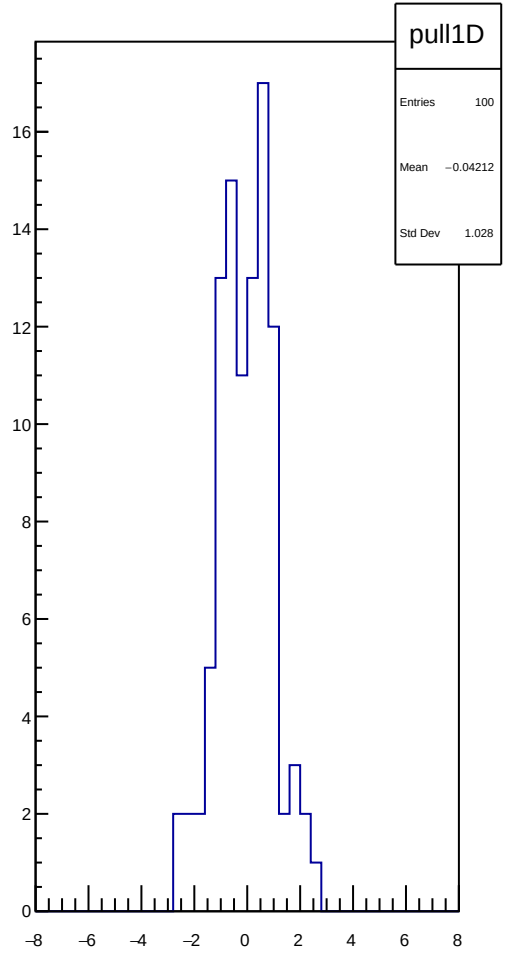

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 4.779e+05 / 99
p0 649.8 ± 0.5401
1600
1400
1200
1000
800
600
400


cor_asym_at1_avg_mean vs run
χ² / ndf 86.46 / 99
p0 −1520 ± 1949
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −66.25
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 100
Mean −0.03097
Std Dev 0.9293
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_at1_avg_rms vs run
χ² / ndf 6502 / 99
p0 1909 ± 1.378
2150
2100
2050
2000
1950
1900
1850
1800
1750


asym_at1_avg_cor_correction_mean vs run
χ² / ndf 105.9 / 99
p0 1899 ± 763.8
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean 27.96
Std Dev 26.83
2
1
0
−1
−2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Entries 100
Mean −0.04212
Std Dev 1.028
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14
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10
8
6
4
2
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−8
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−4
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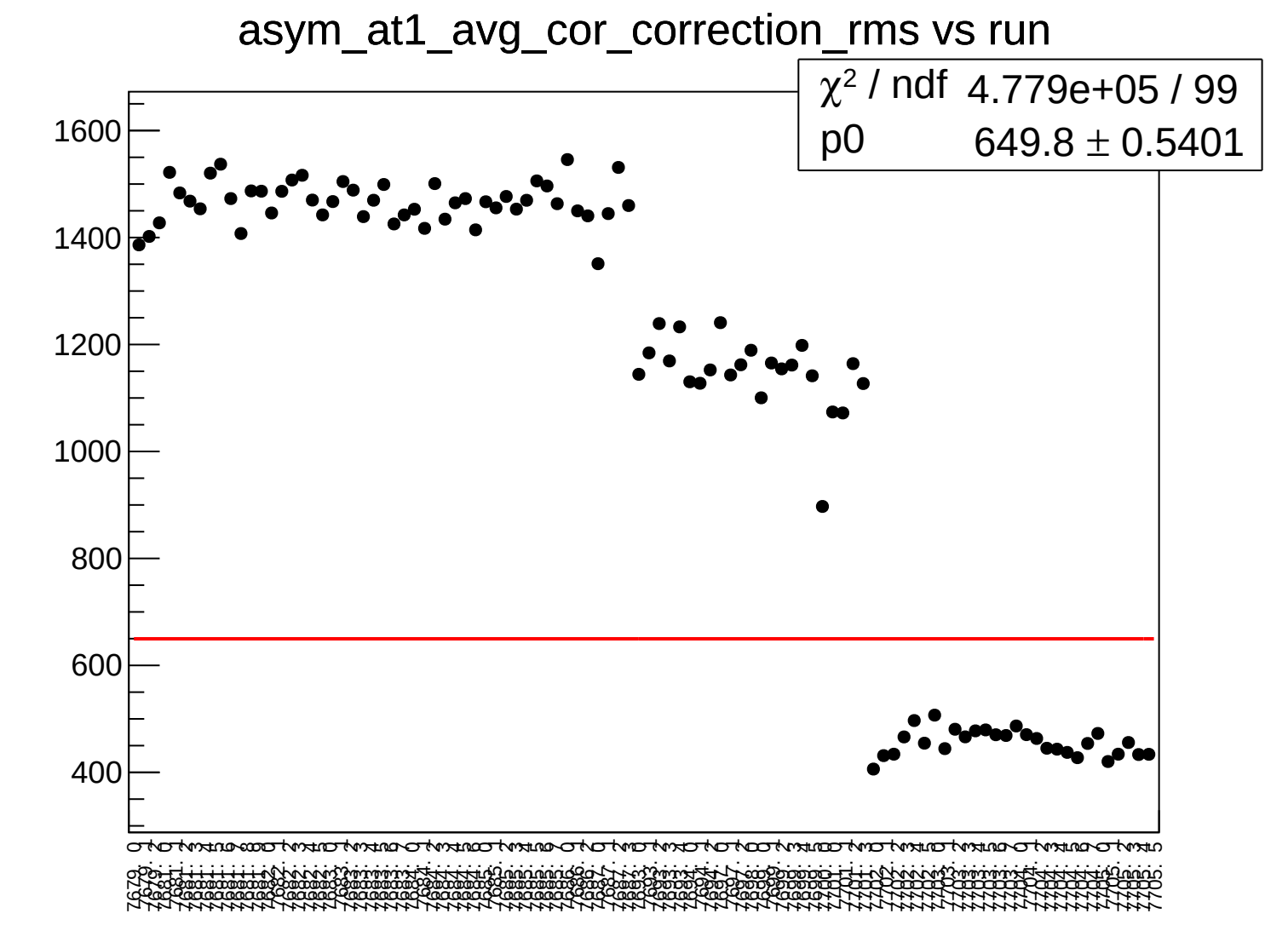
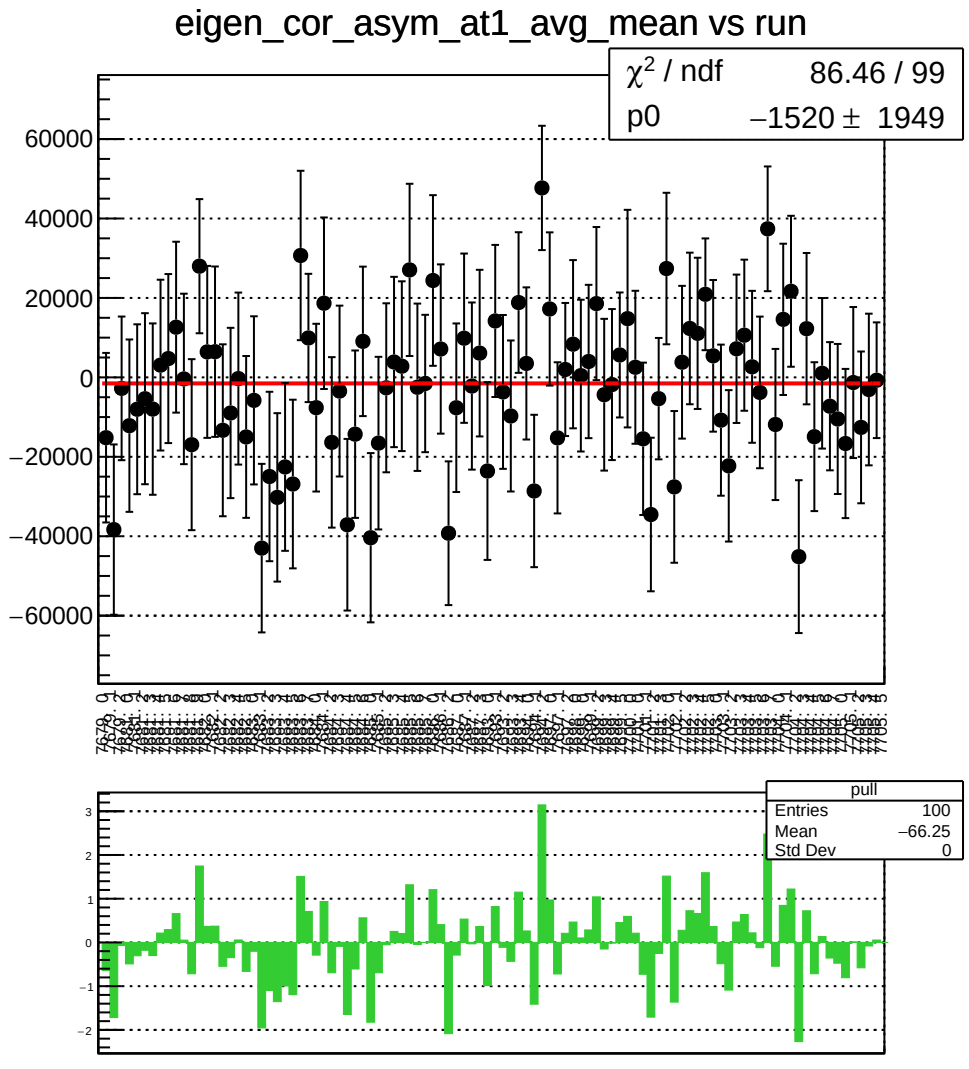
2
4
6
8


asym_at1_avg_cor_correction_rms vs run
χ² / ndf 4.779e+05 / 99
p0 649.8 ± 0.5401
1600
1400
1200
1000
800
600
400


eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 86.46 / 99
p0 −1520 ± 1949
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −66.25
Std Dev 0
3
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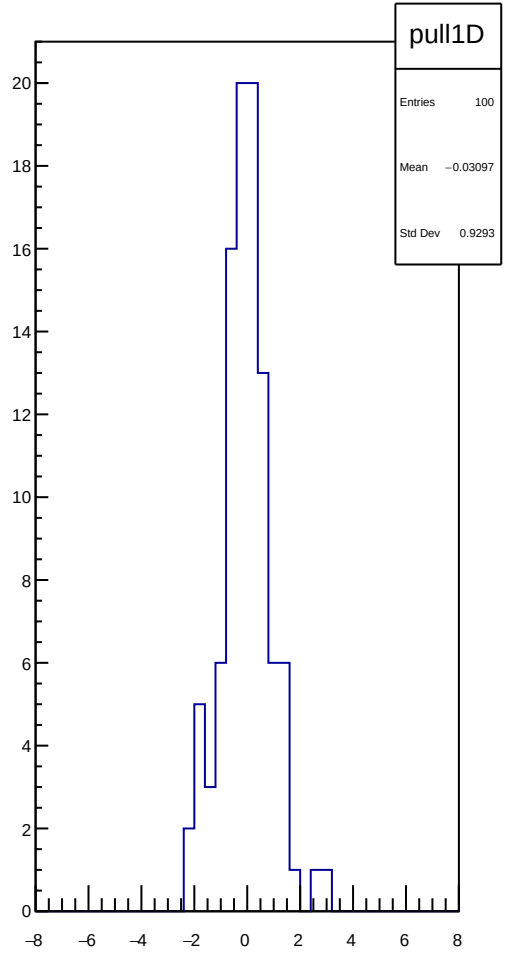
1
0
−1
−2


pull1D
Entries 100
Mean −0.03097
Std Dev 0.9293
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2
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6
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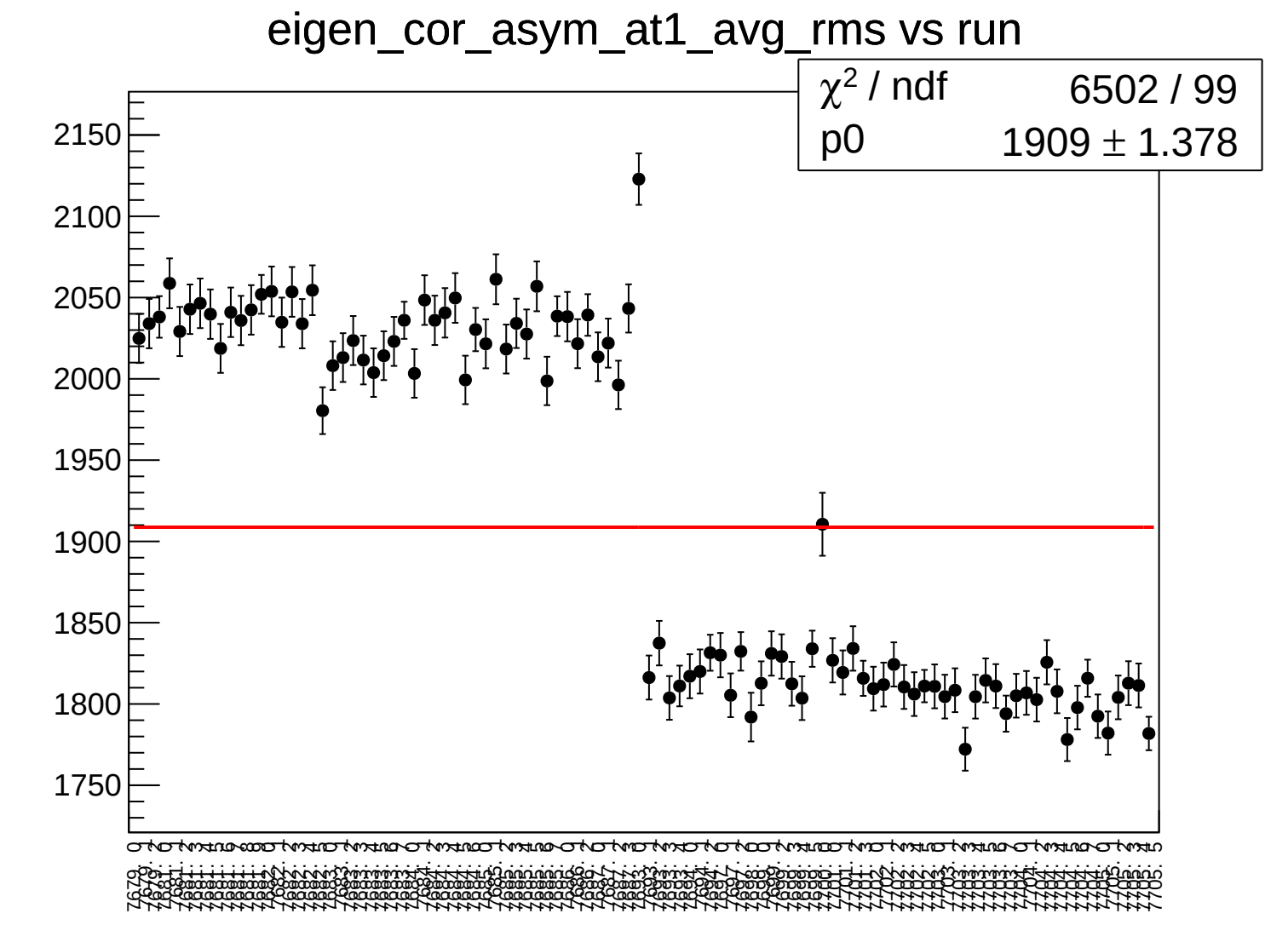
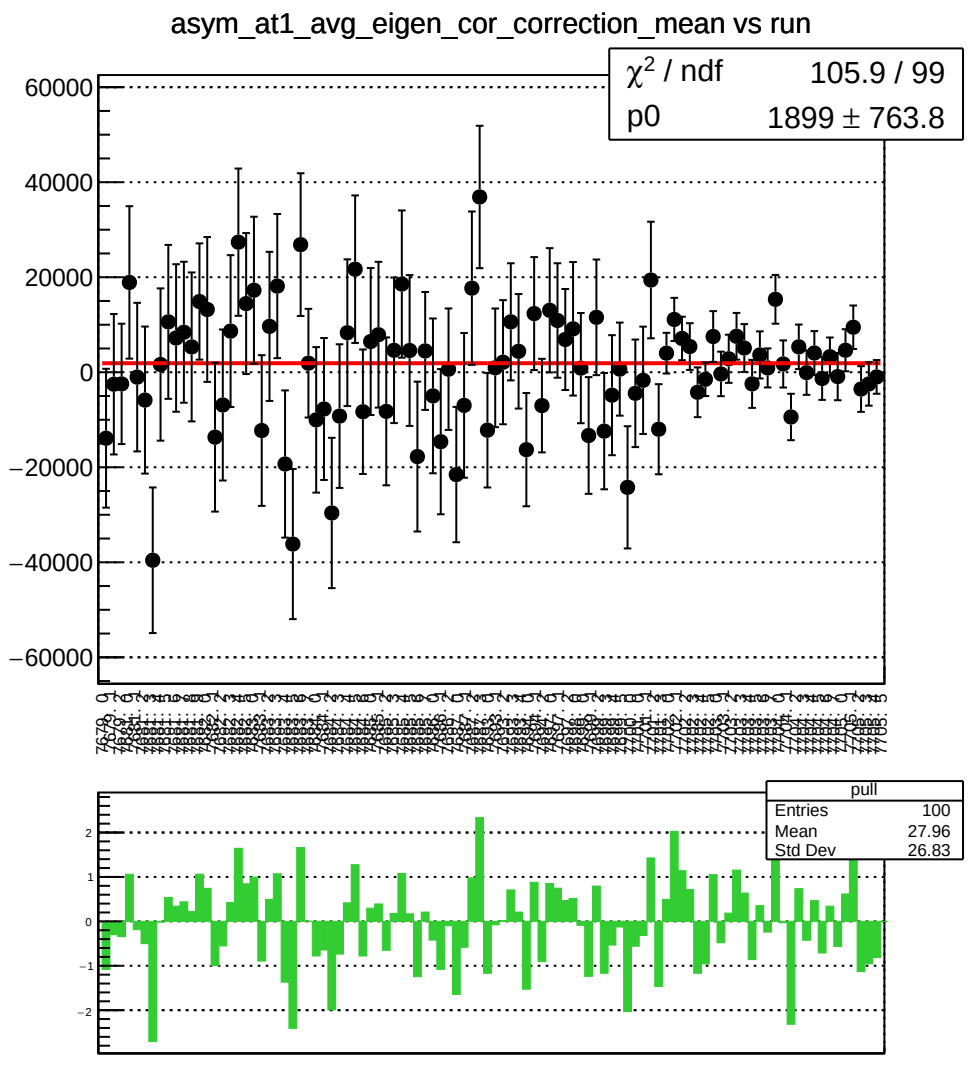

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 6502 / 99
p0 1909 ± 1.378
2150
2100
2050
2000
1950
1900
1850
1800
1750


asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 105.9 / 99
p0 1899 ± 763.8
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean 27.96
Std Dev 26.83
2
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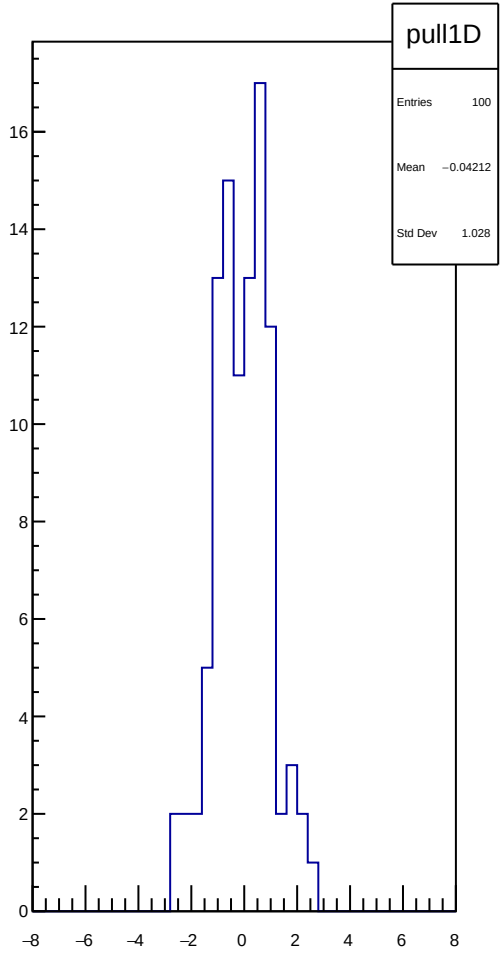
0
−1
−2


pull1D
Entries 100
Mean −0.04212
Std Dev 1.028
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2
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6
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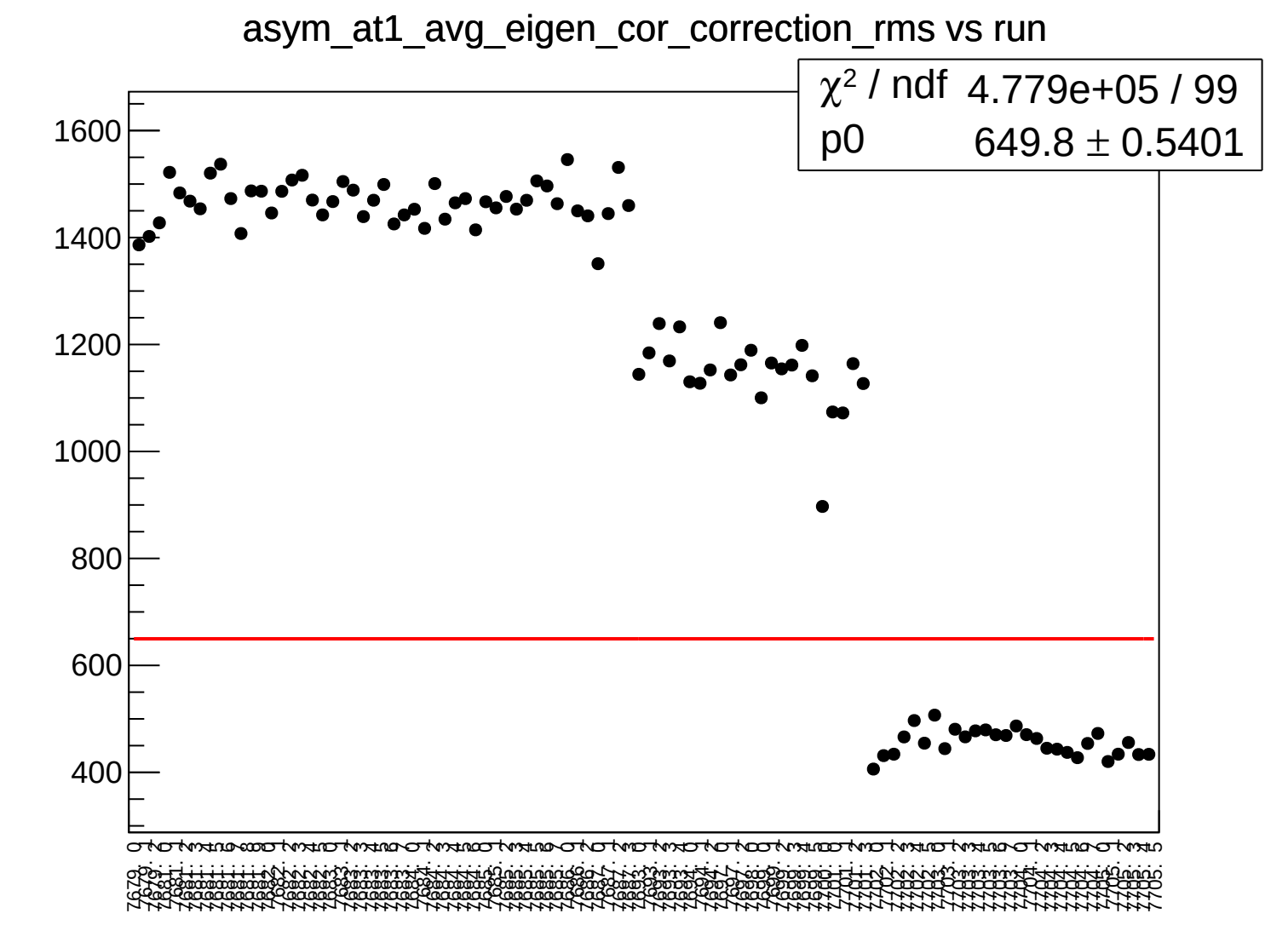
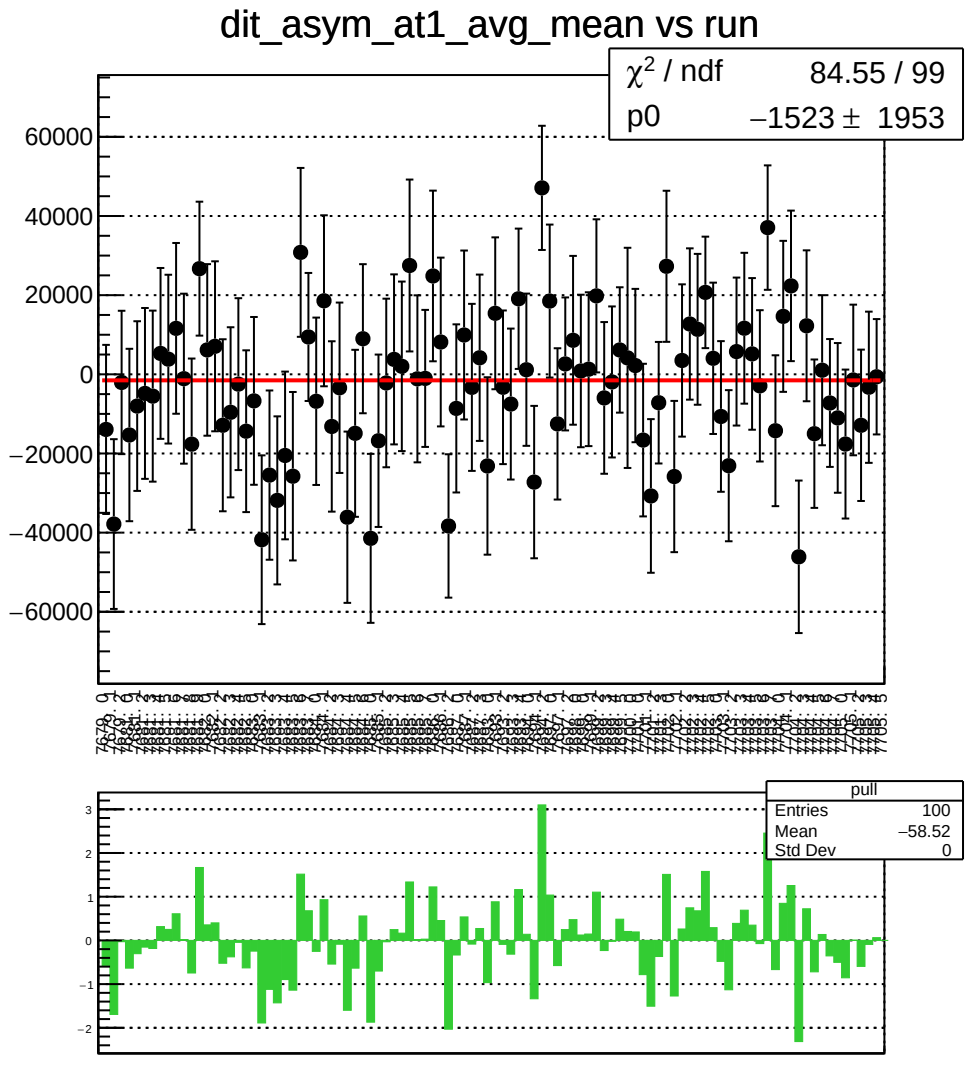
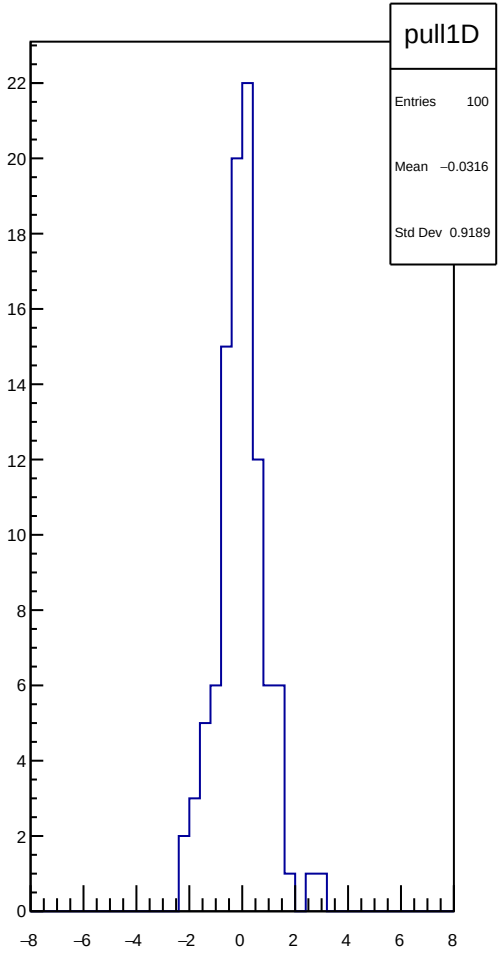
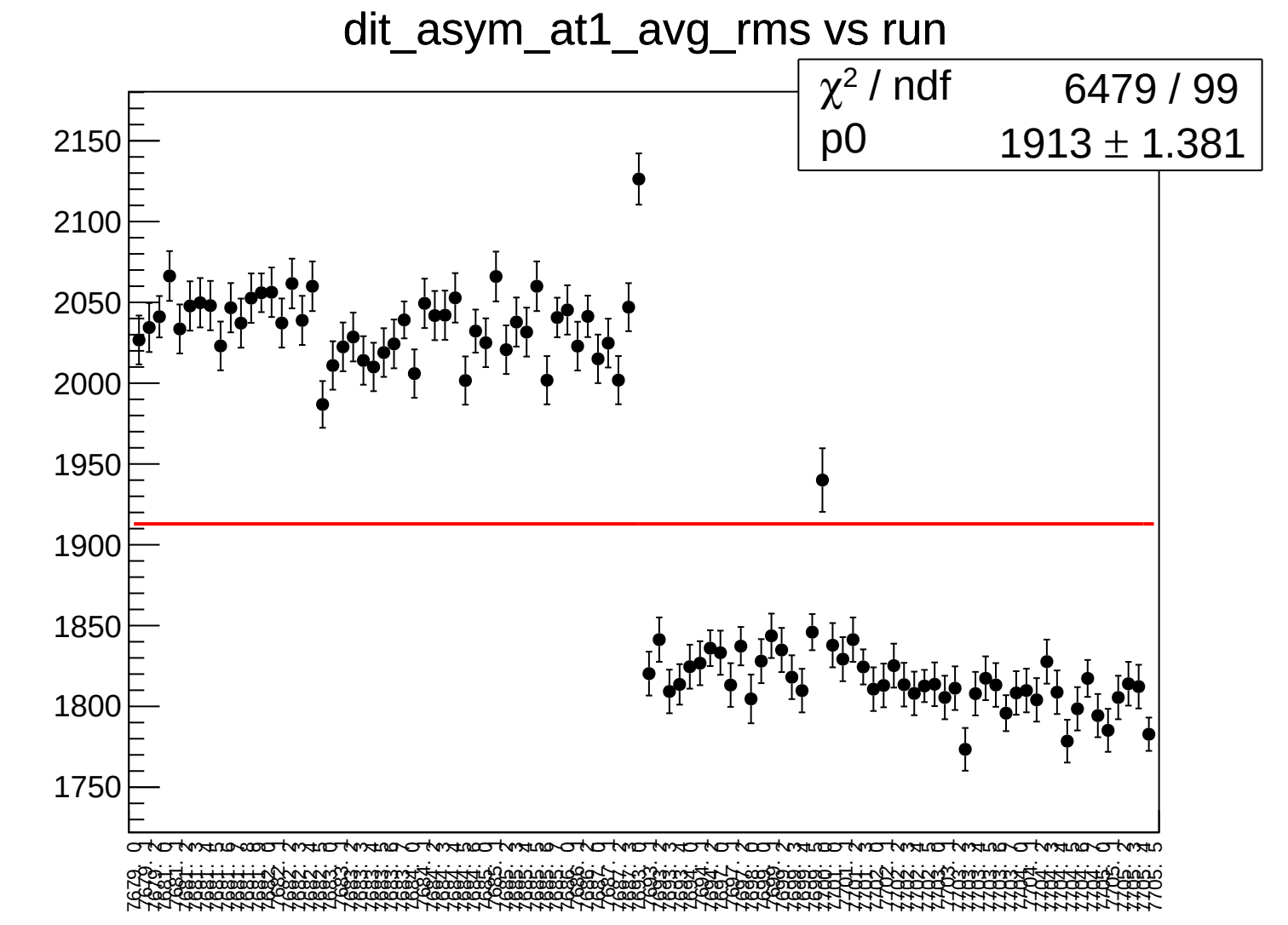
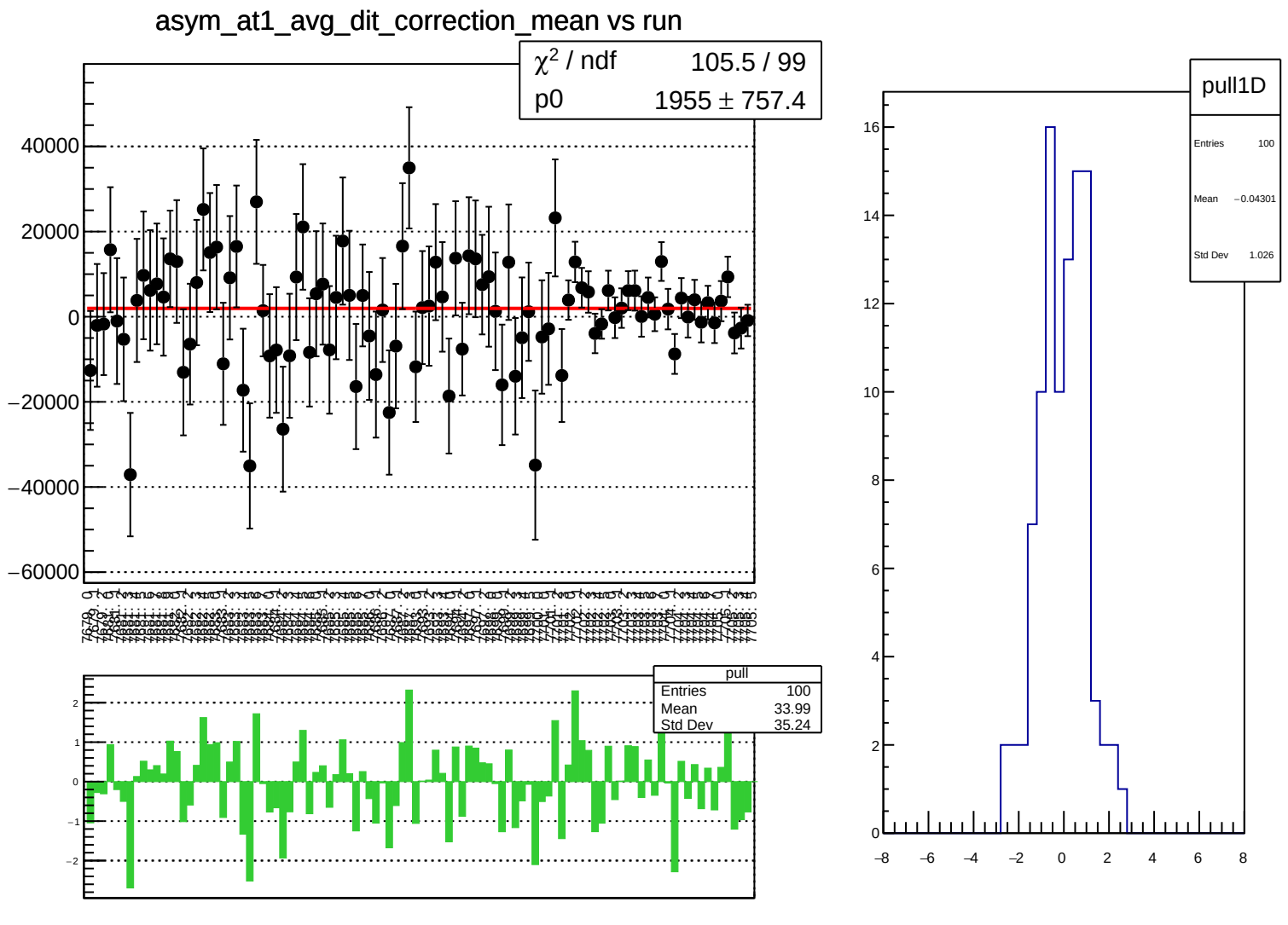
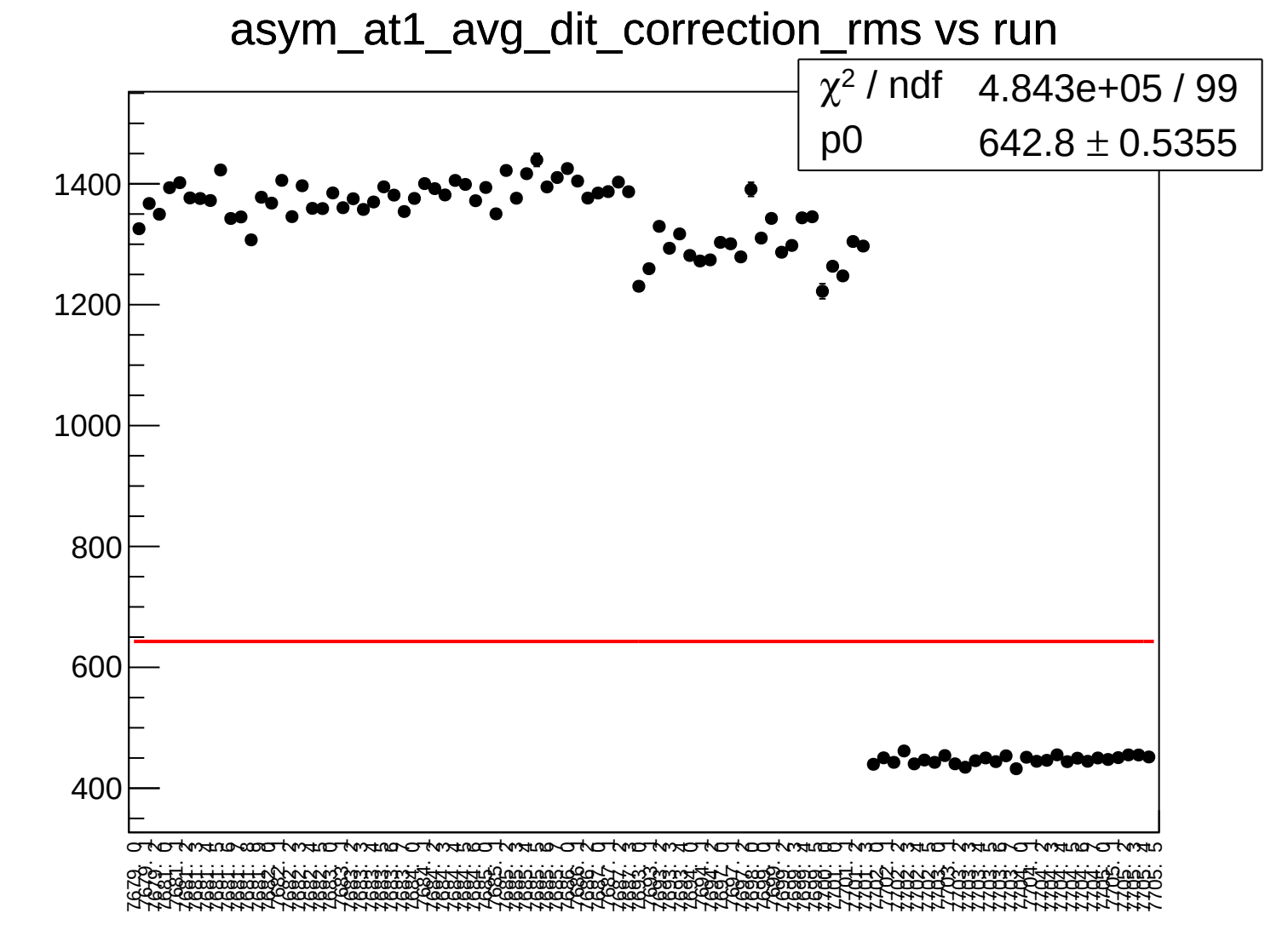

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.779e+05 / 99
p0 649.8 ± 0.5401
1600
1400
1200
1000
800
600
400

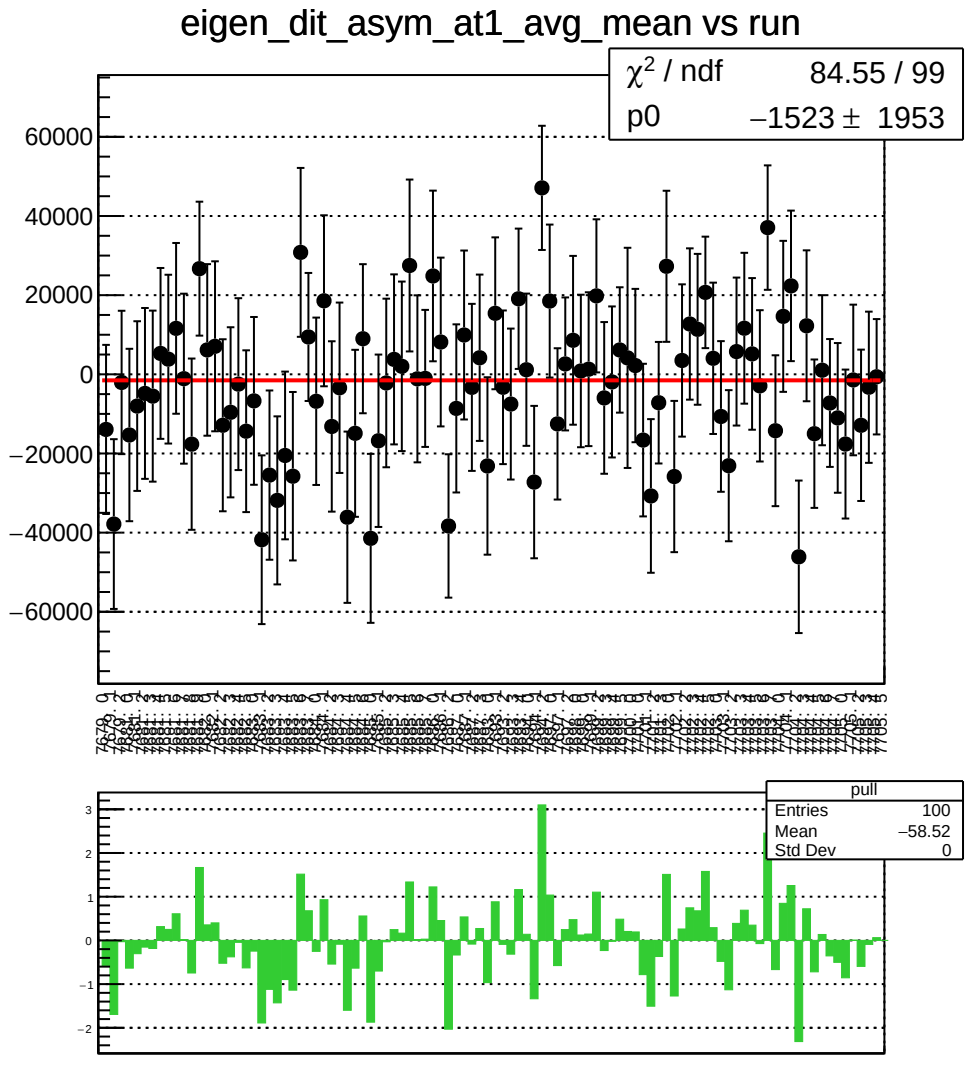

dit_asym_at1_avg_mean vs run
χ² / ndf 84.55 / 99
p0 −1523 ± 1953
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −58.52
Std Dev 0
3
2
1
0
−1
−2

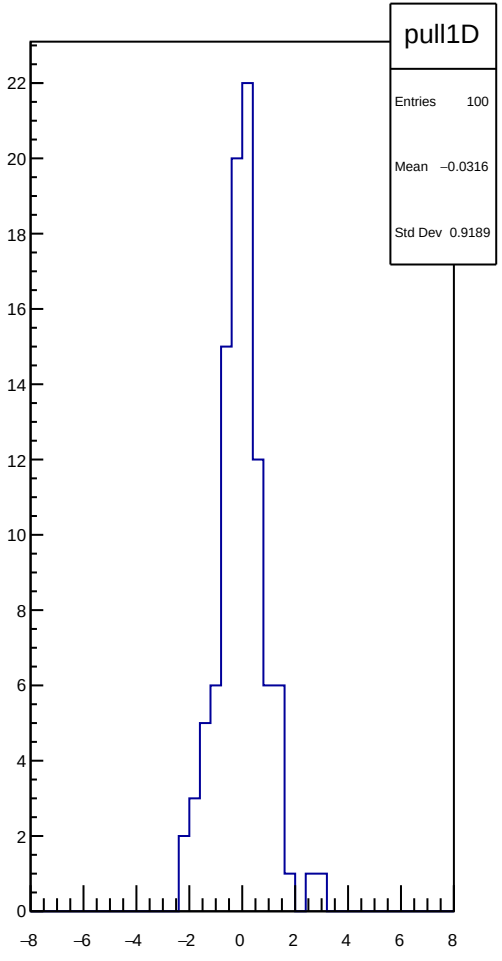

pull1D
Entries 100
Mean −0.0316
Std Dev 0.9189
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

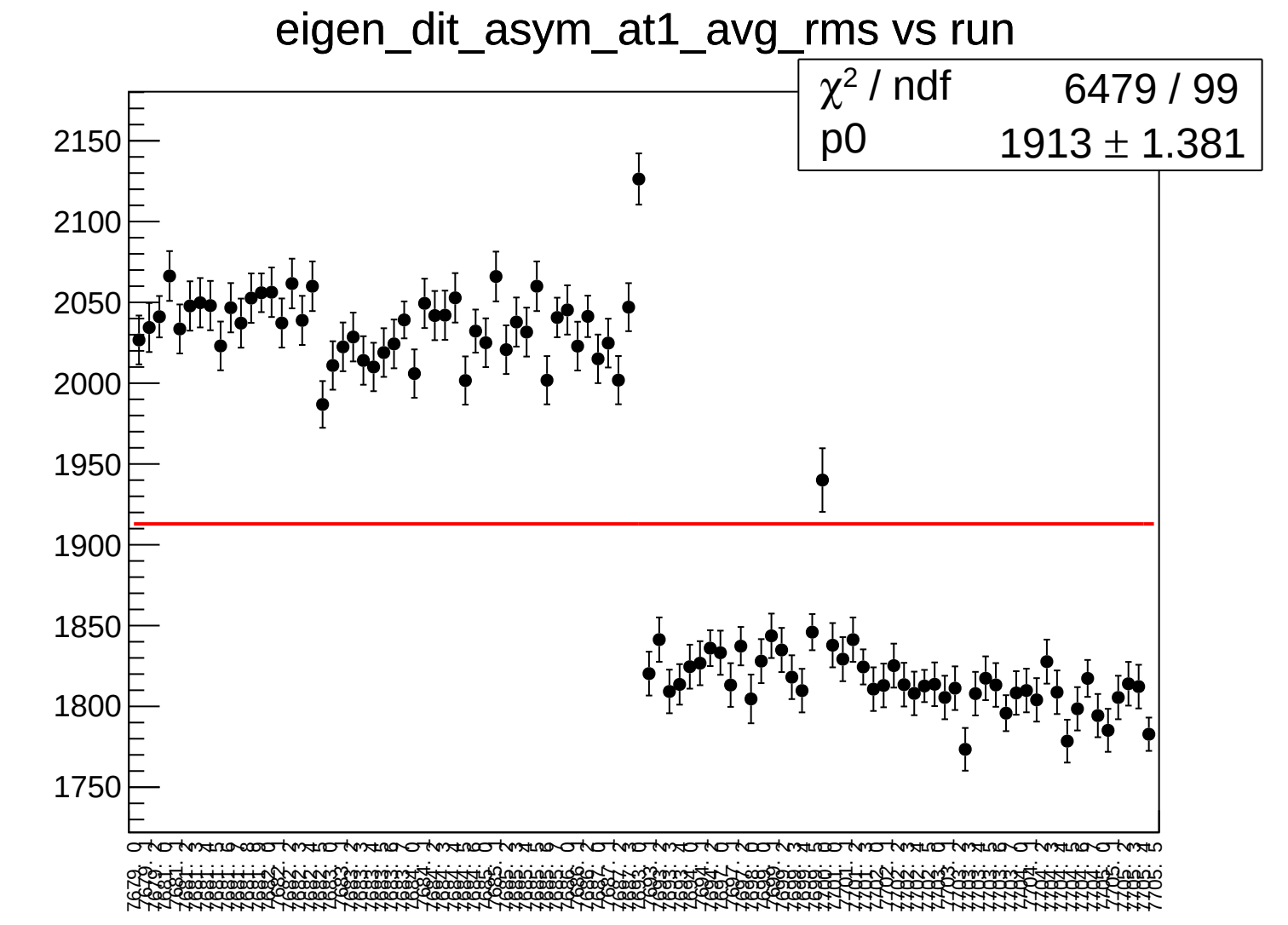

dit_asym_at1_avg_rms vs run
χ² / ndf 6479 / 99
p0 1913 ± 1.381
2150
2100
2050
2000
1950
1900
1850
1800
1750

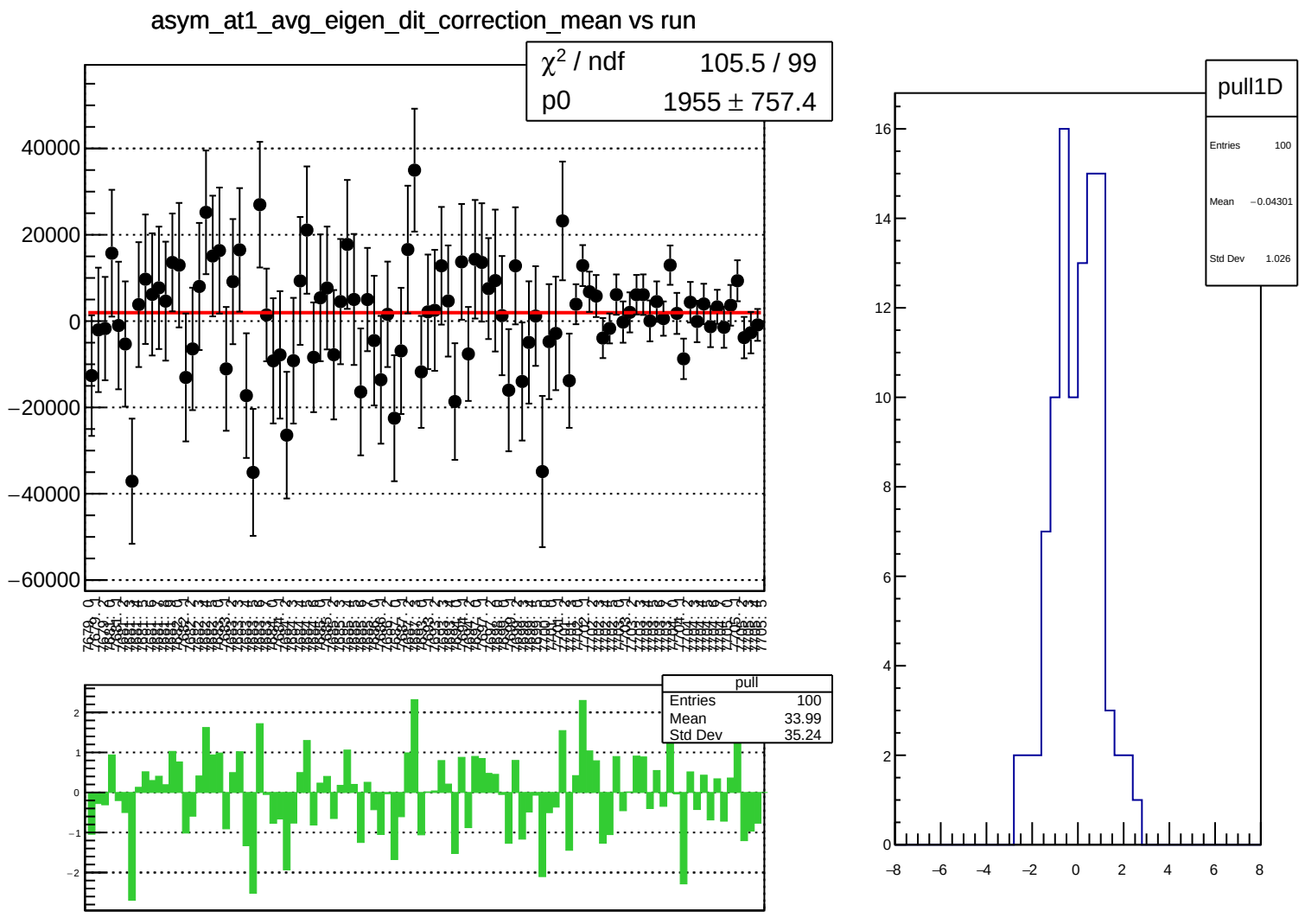

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 105.5 / 99
p0 1955 ± 757.4
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean 33.99
Std Dev 35.24
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.04301
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

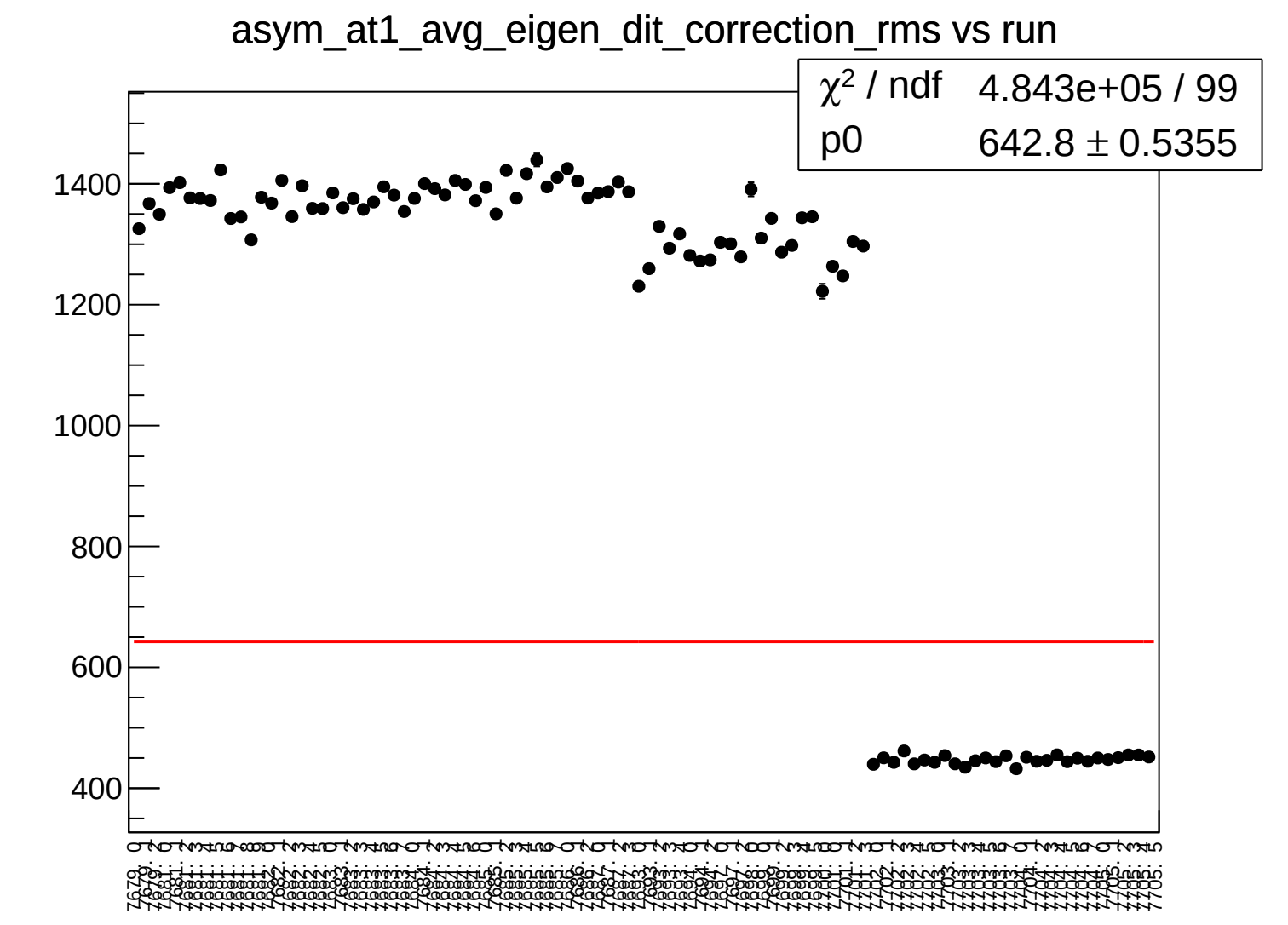

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 4.843e+05 / 99
p0 642.8 ± 0.5355
1400
1200
1000
800
600
400

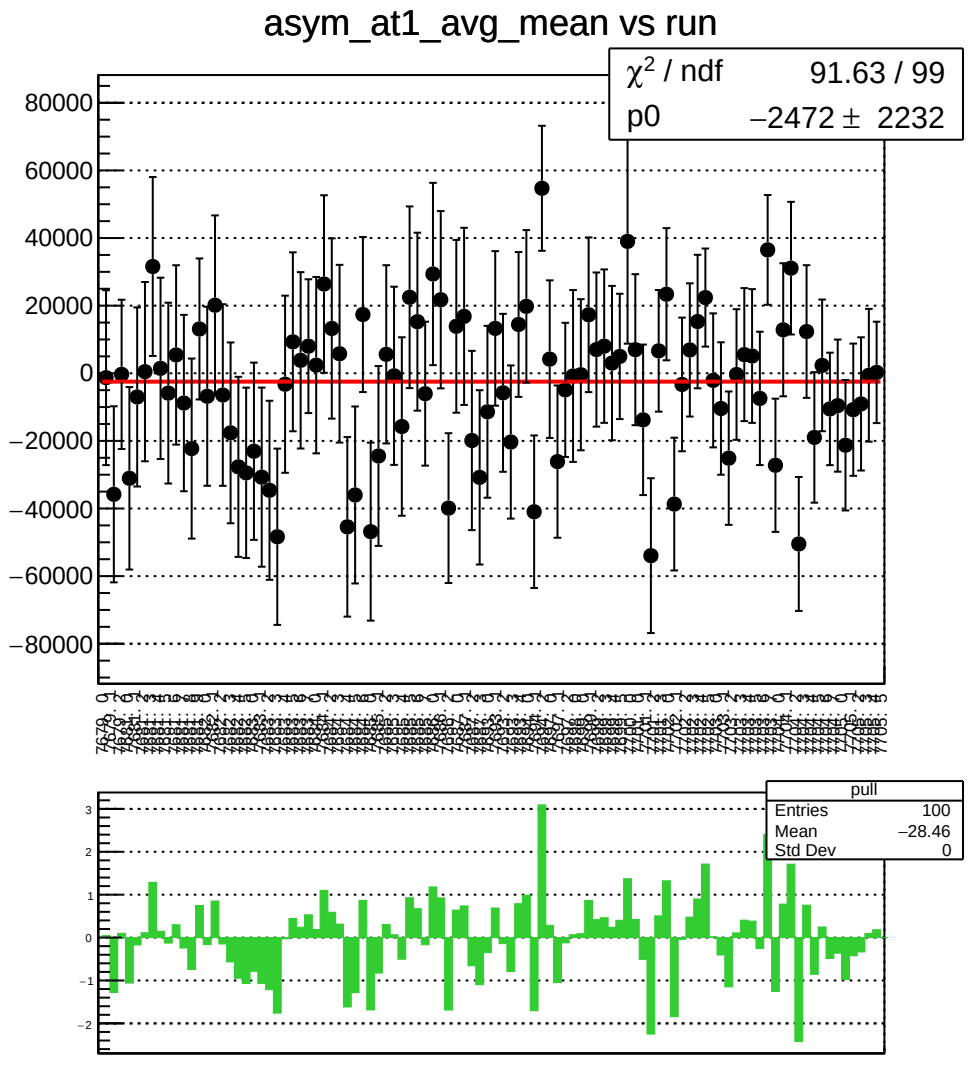

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 84.55 / 99
p0 −1523 ± 1953
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −58.52
Std Dev 0
3
2
1
0
−1
−2

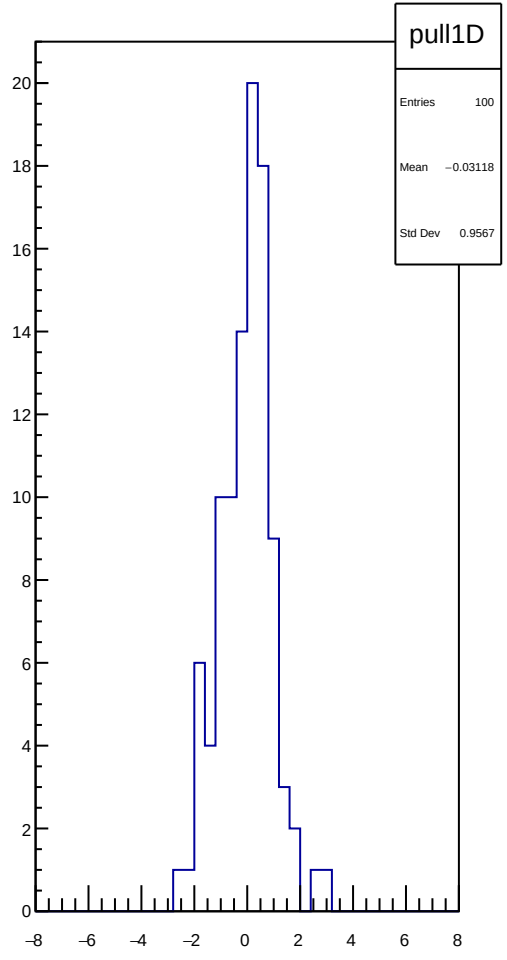

pull1D
Entries 100
Mean −0.0316
Std Dev 0.9189
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

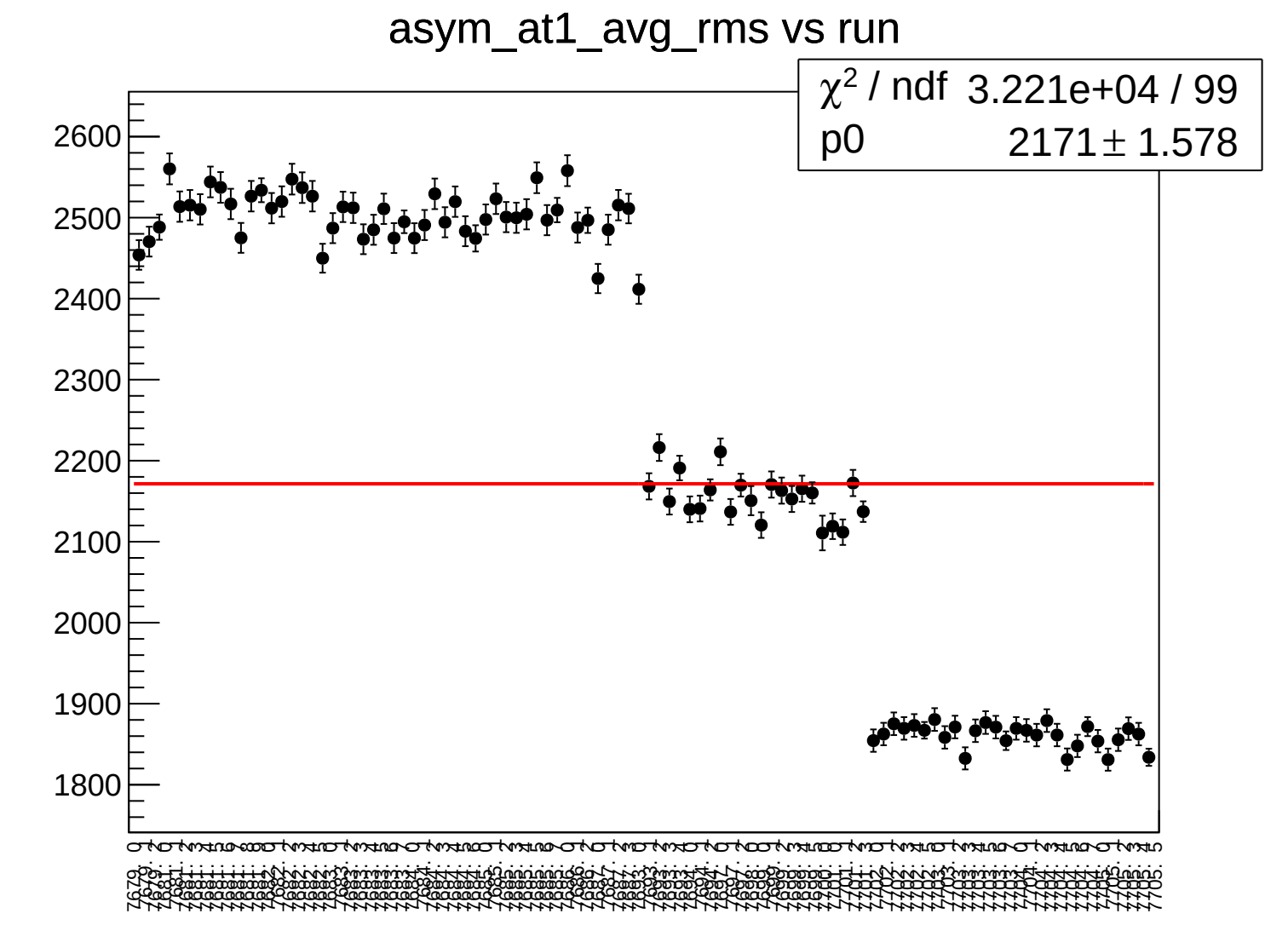

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 6479 / 99
p0 1913 ± 1.381
2150
2100
2050
2000
1950
1900
1850
1800
1750

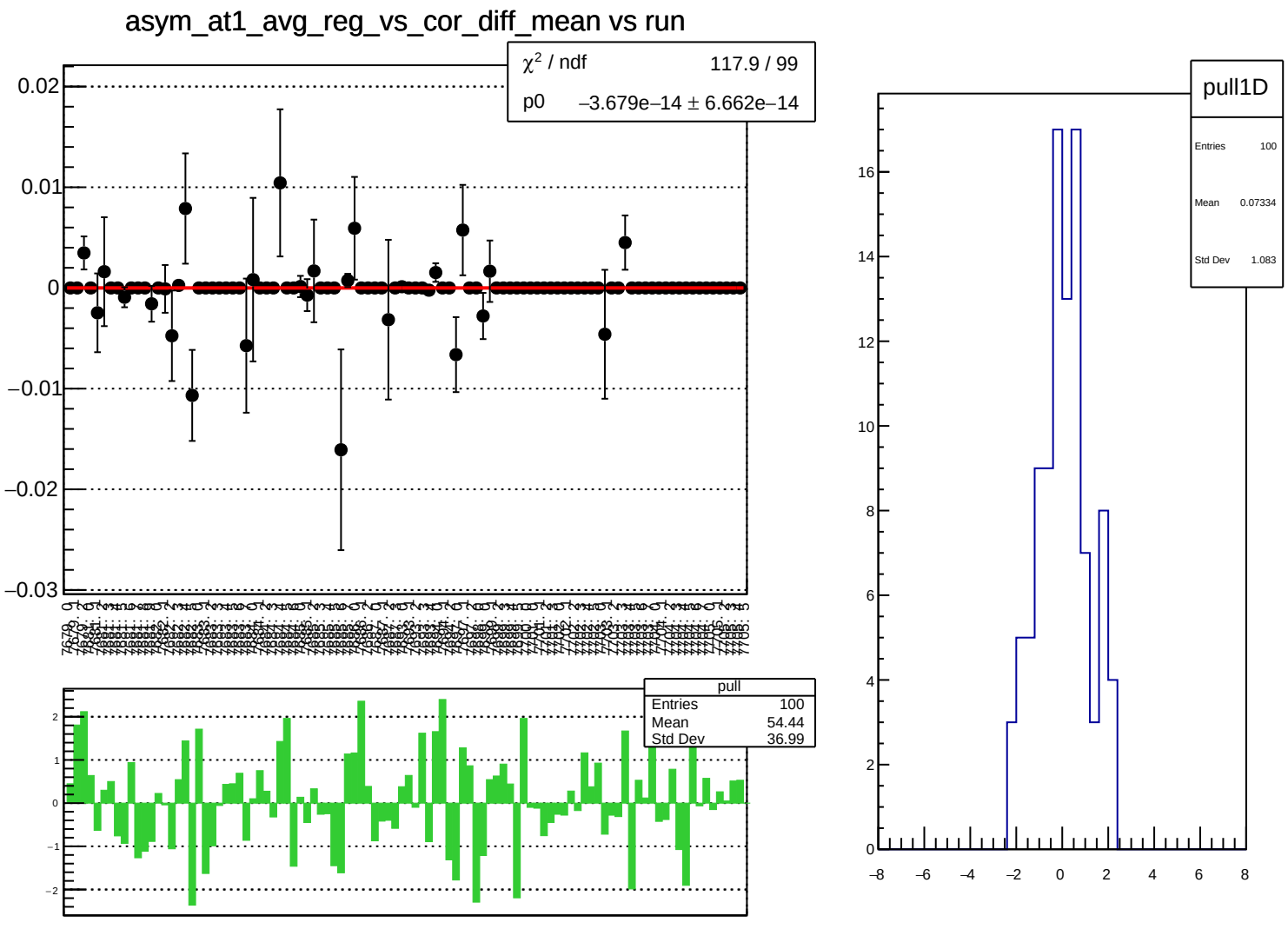

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 105.5 / 99
p0 1955 ± 757.4
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean 33.99
Std Dev 35.24
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.04301
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 4.843e+05 / 99
p0 642.8 ± 0.5355
1400
1200
1000
800
600
400


asym_at1_avg_mean vs run
χ² / ndf 91.63 / 99
p0 −2472 ± 2232
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −28.46
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 100
Mean −0.03118
Std Dev 0.9567
20
18
16
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 3.221e+04 / 99
p0 2171 ± 1.578
2600
2500
2400
2300
2200
2100
2000
1900
1800


asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 117.9 / 99
p0 −3.679e−14 ± 6.662e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 100
Mean 54.44
Std Dev 36.99
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.07334
Std Dev 1.083
16
14
12
10
8
6
4
2
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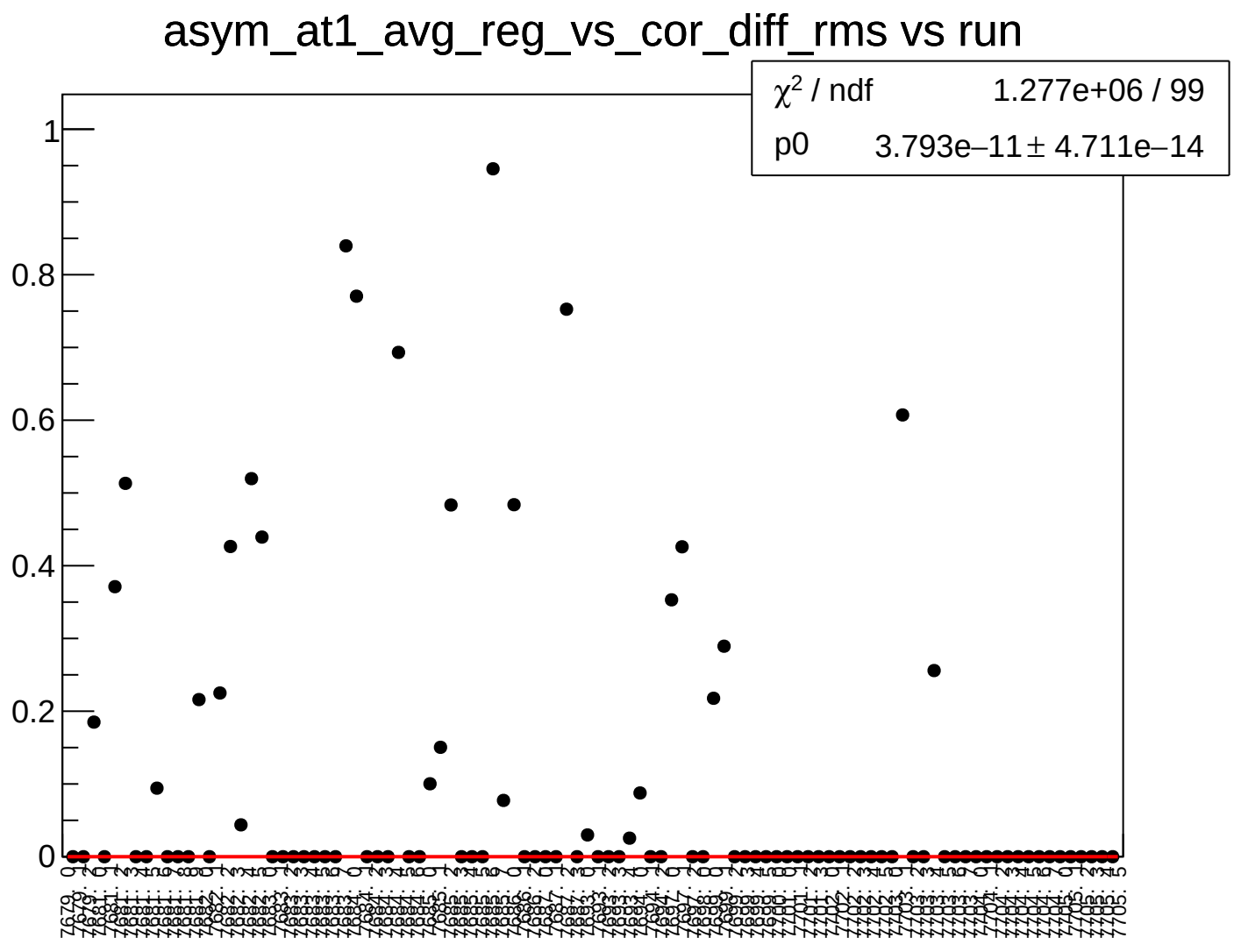
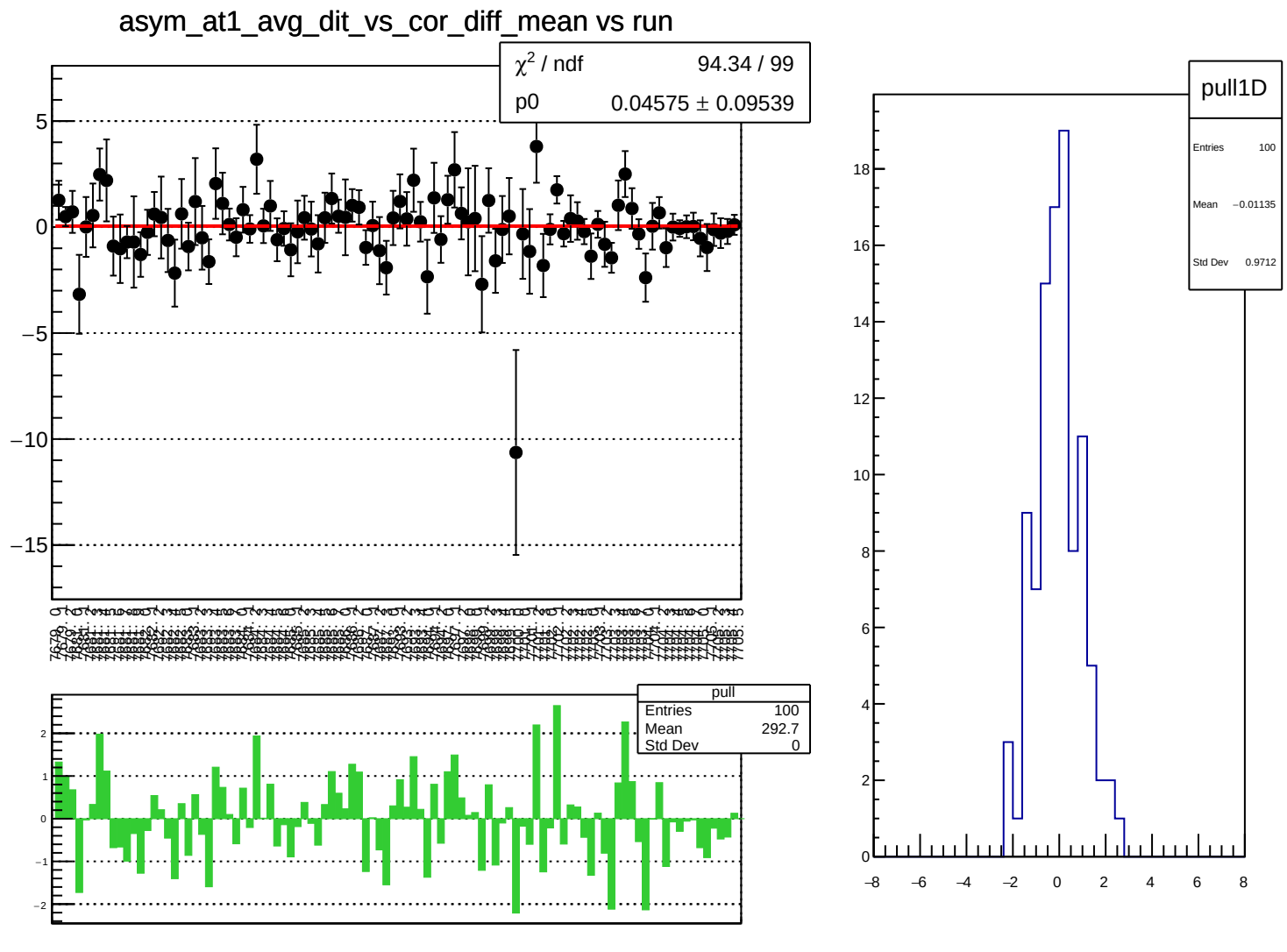
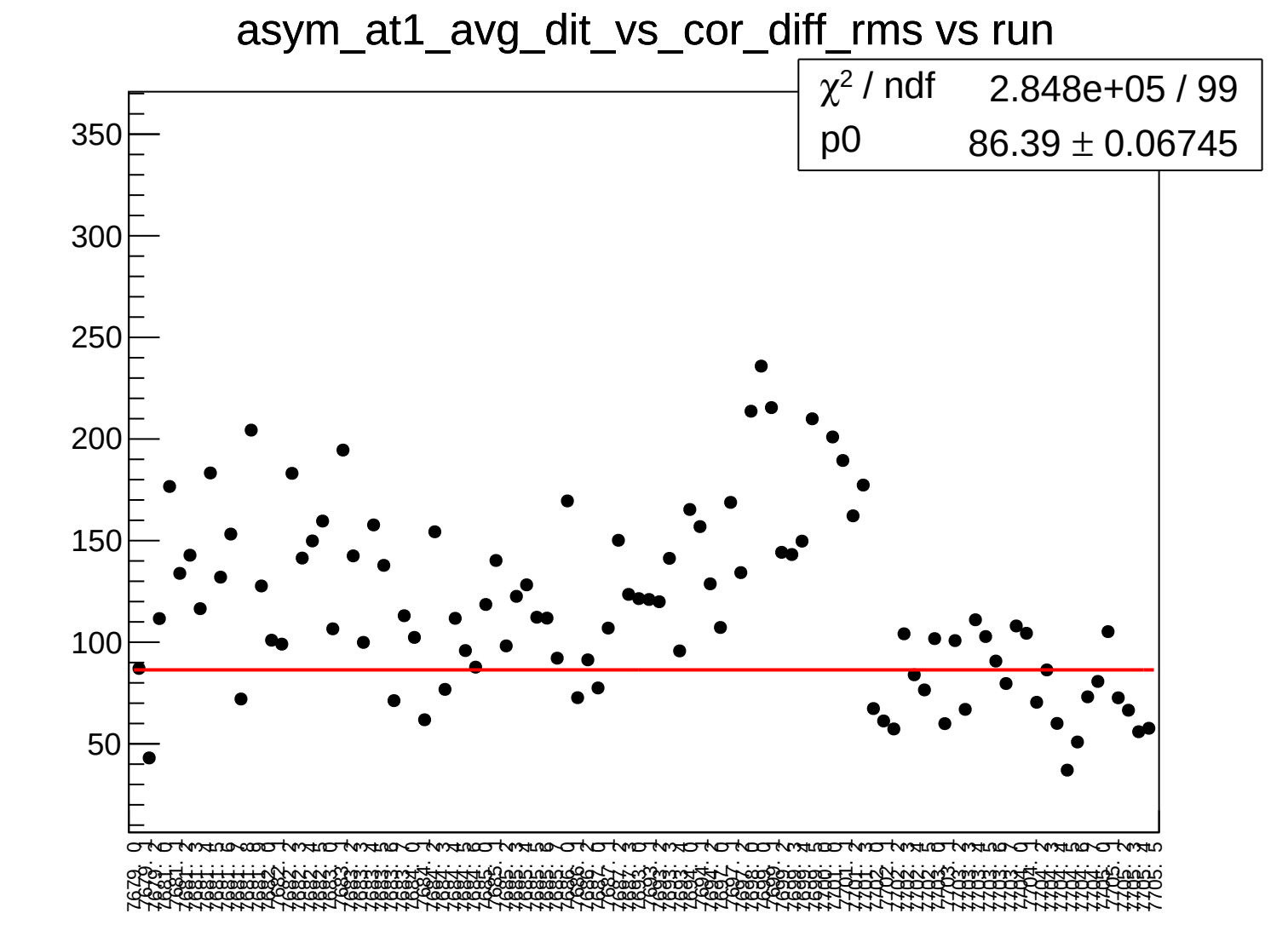
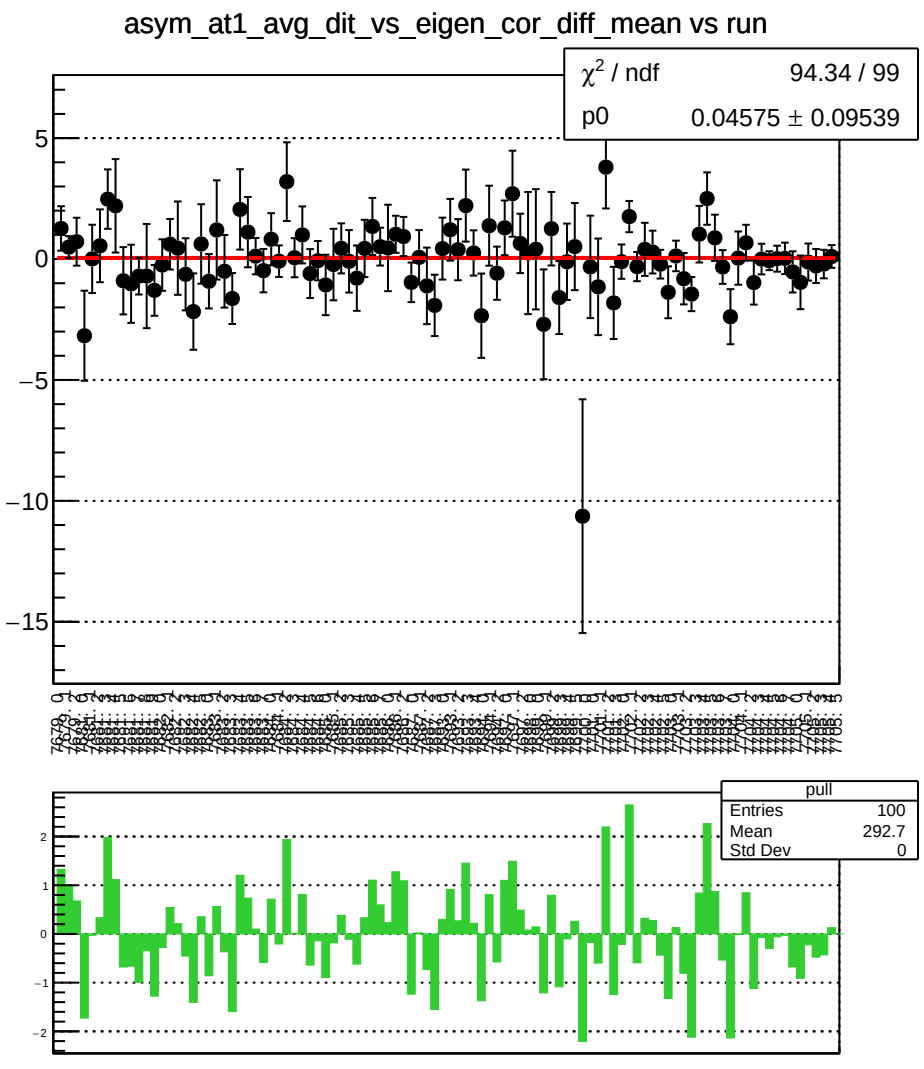
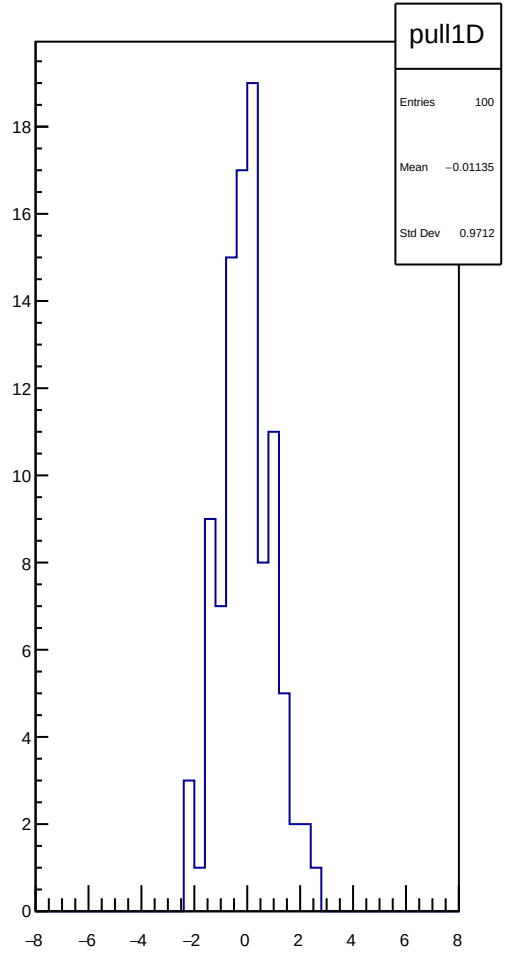
−6
−4
−2
0
2
4
6
8

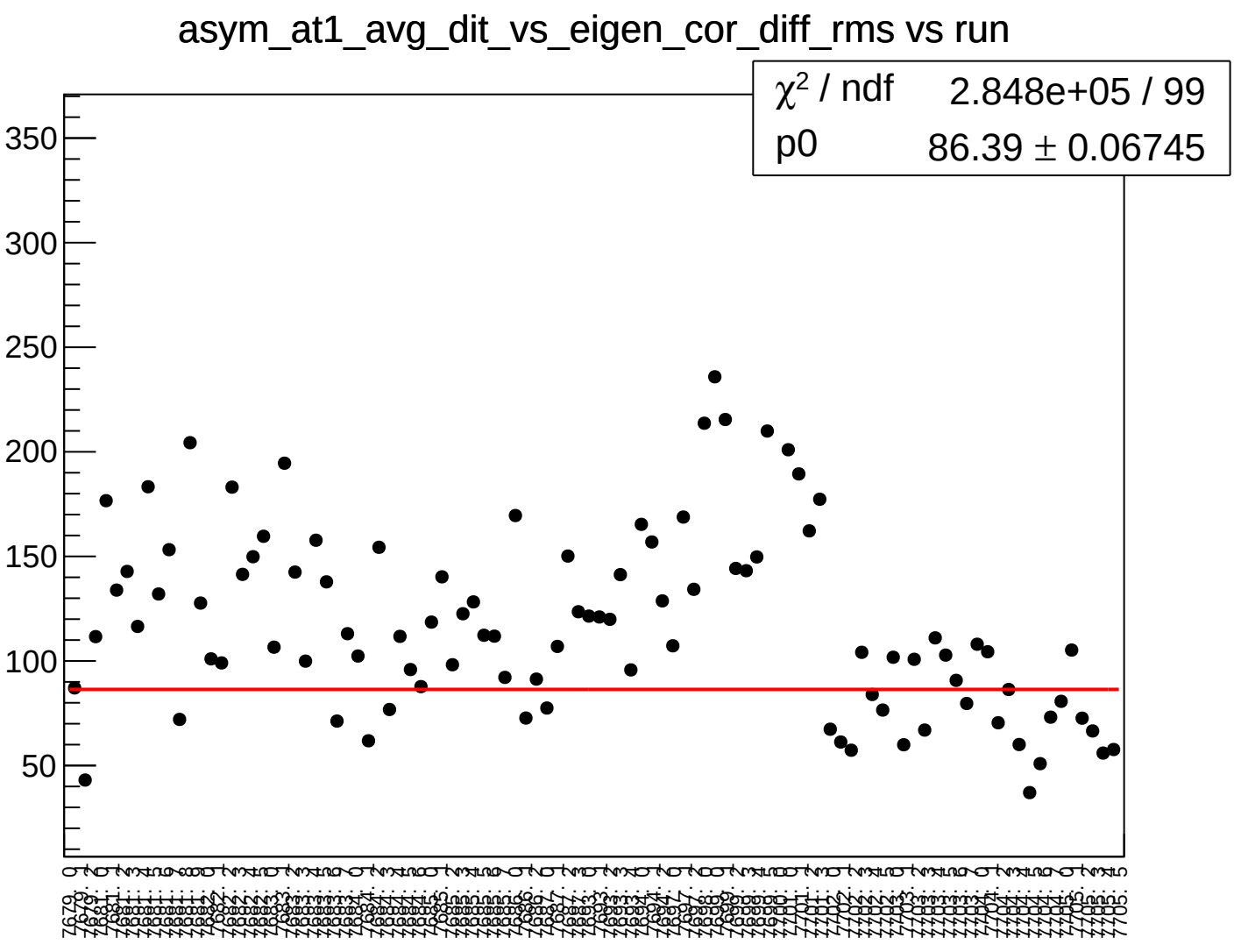

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.277e+06 / 99
p0 3.793e−11 ± 4.711e−14
1
0.8
0.6
0.4
0.2
0

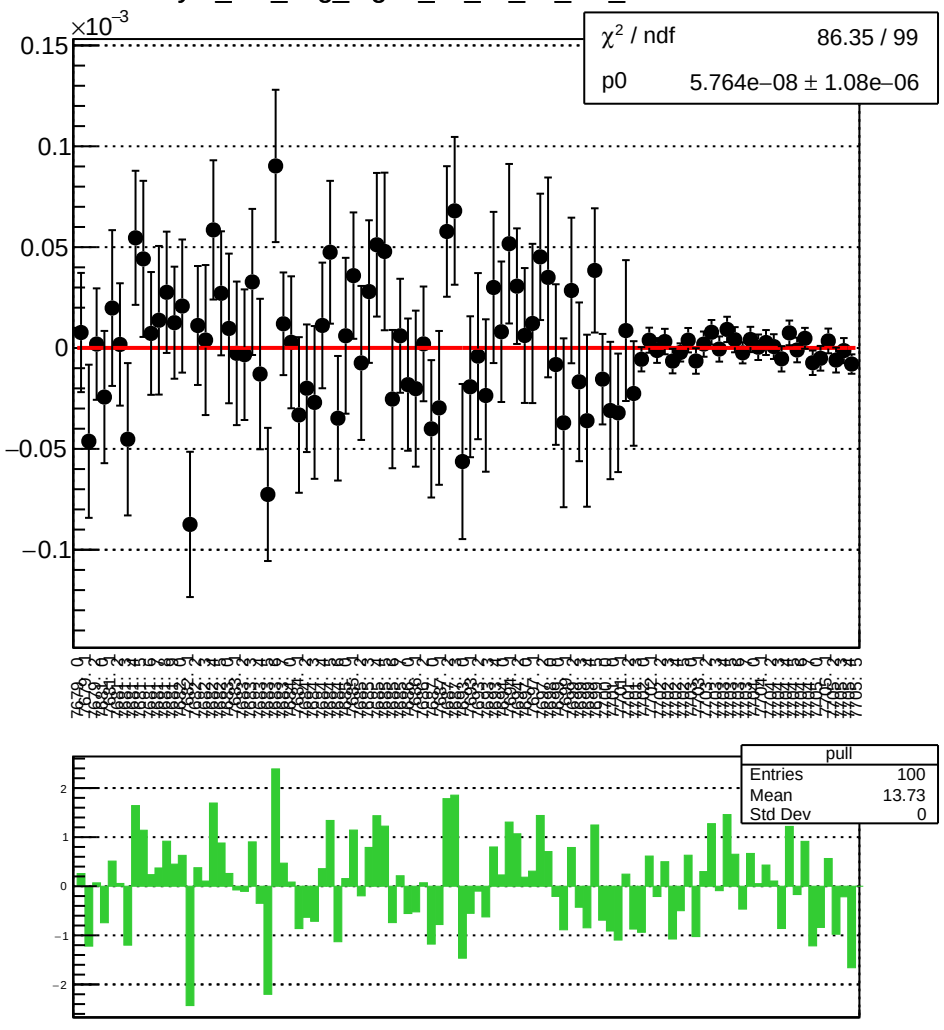

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 94.34 / 99
p0 0.04575 ± 0.09539
pull
Entries 100
Mean 292.7
Std Dev 0
pull1D
Entries 100
Mean −0.01135
Std Dev 0.9712

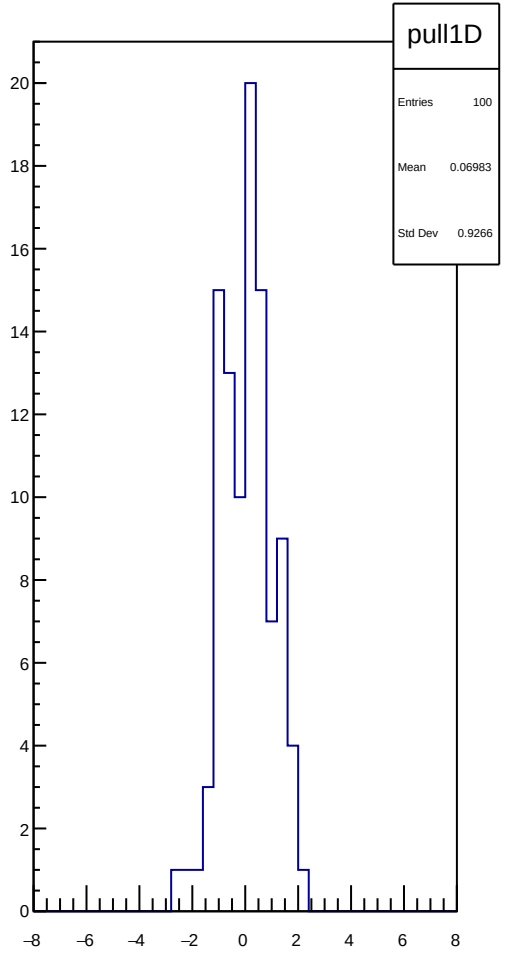

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.848e+05 / 99
p0 86.39 ± 0.06745
350
300
250
200
150
100
50

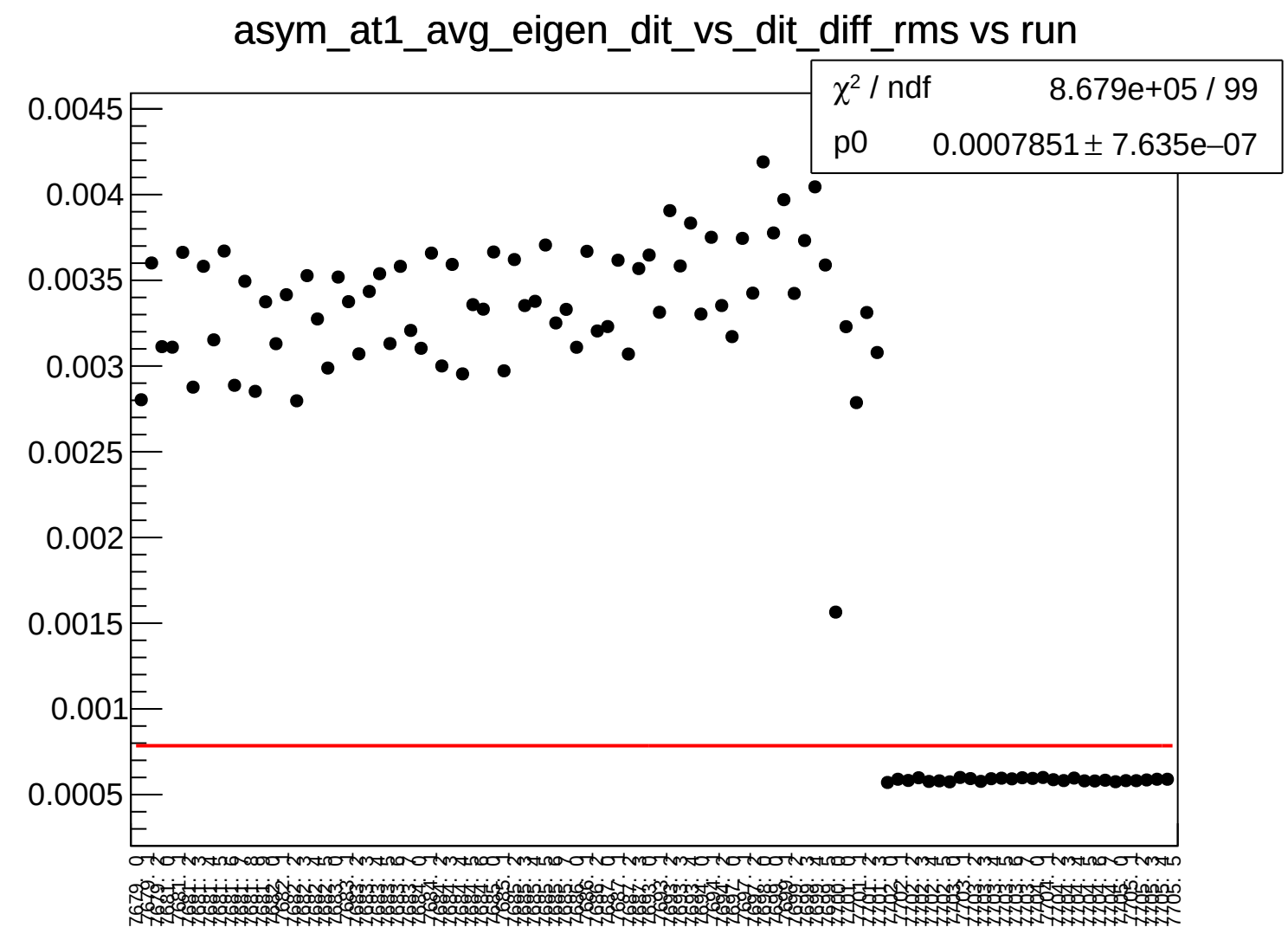

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.34 / 99
p0 0.04575 ± 0.09539
pull
Entries 100
Mean 292.7
Std Dev 0

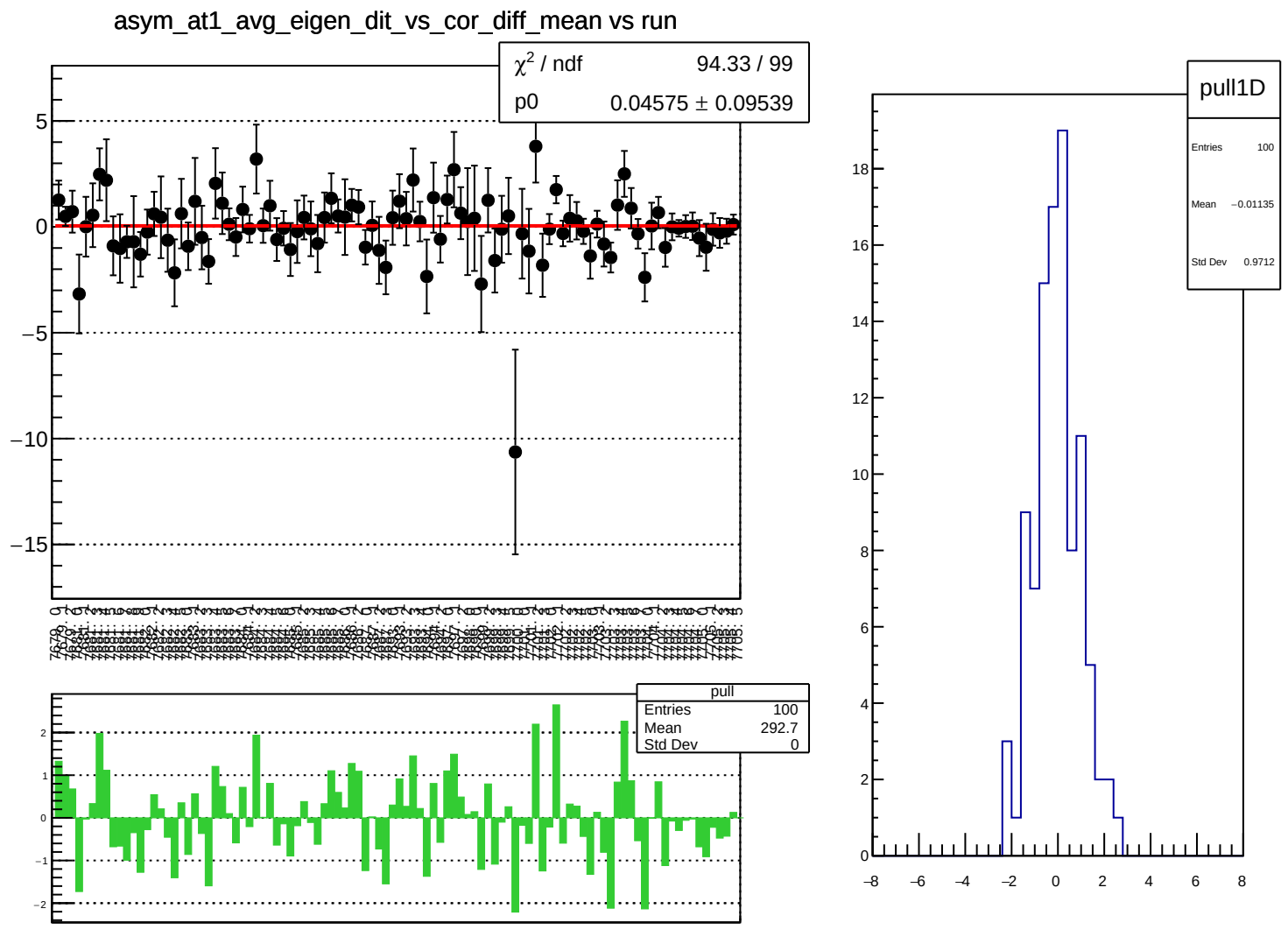

pull1D
Entries 100
Mean −0.01135
Std Dev 0.9712

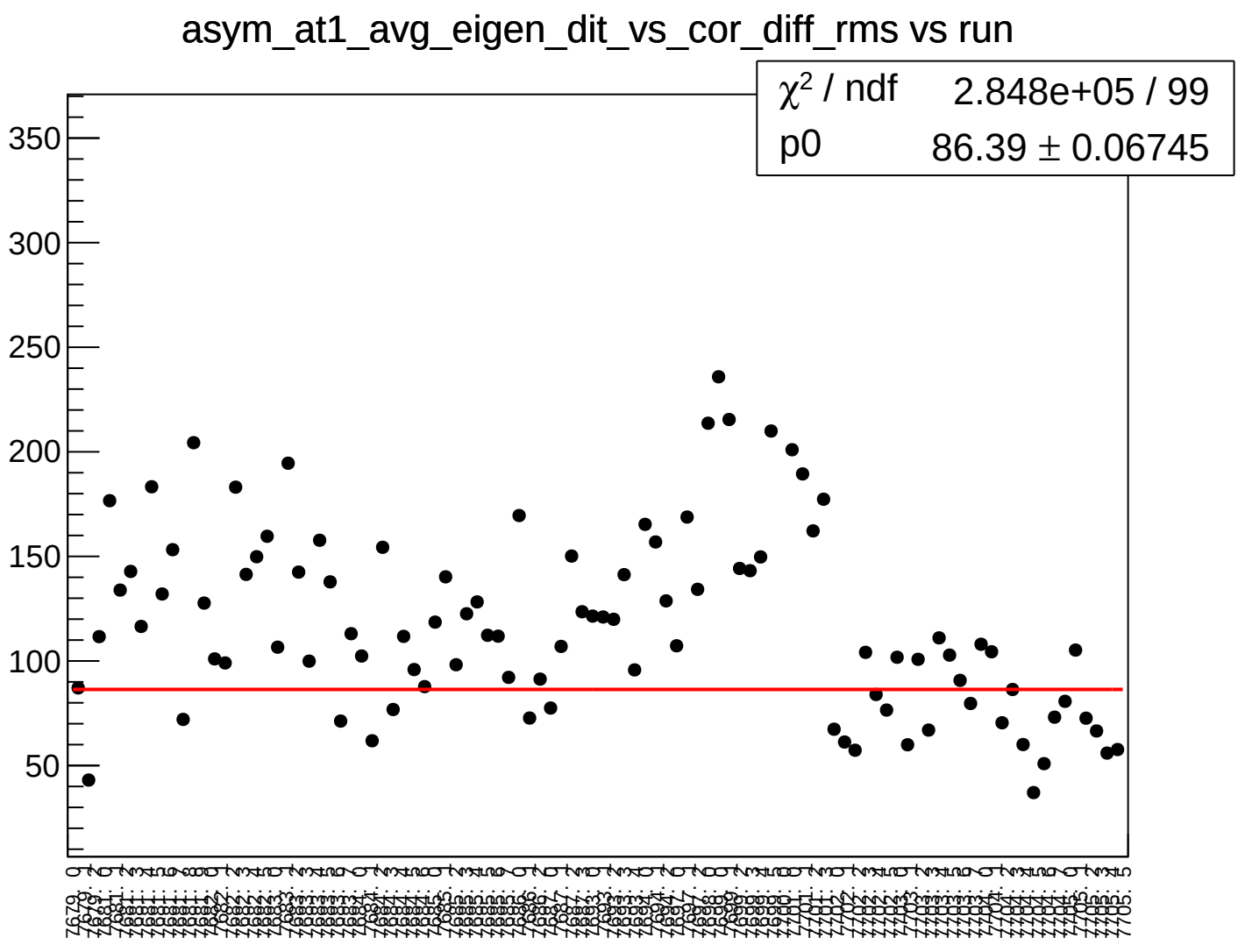

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.848e+05 / 99
p0 86.39 ± 0.06745
350
300
250
200
150
100
50

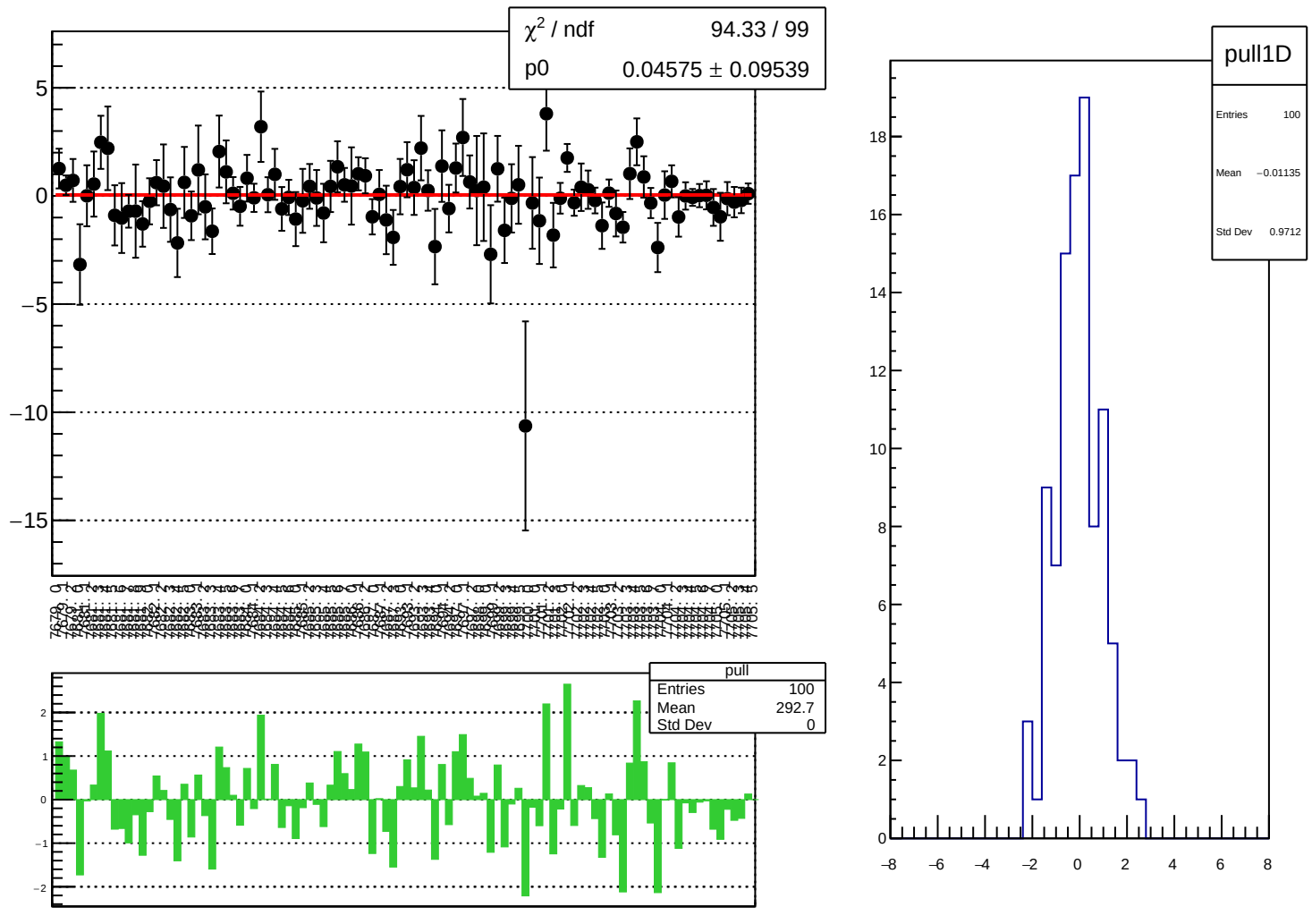

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.35 / 99
p0 5.764e−08 ± 1.08e−06
pull
Entries 100
Mean 13.73
Std Dev 0

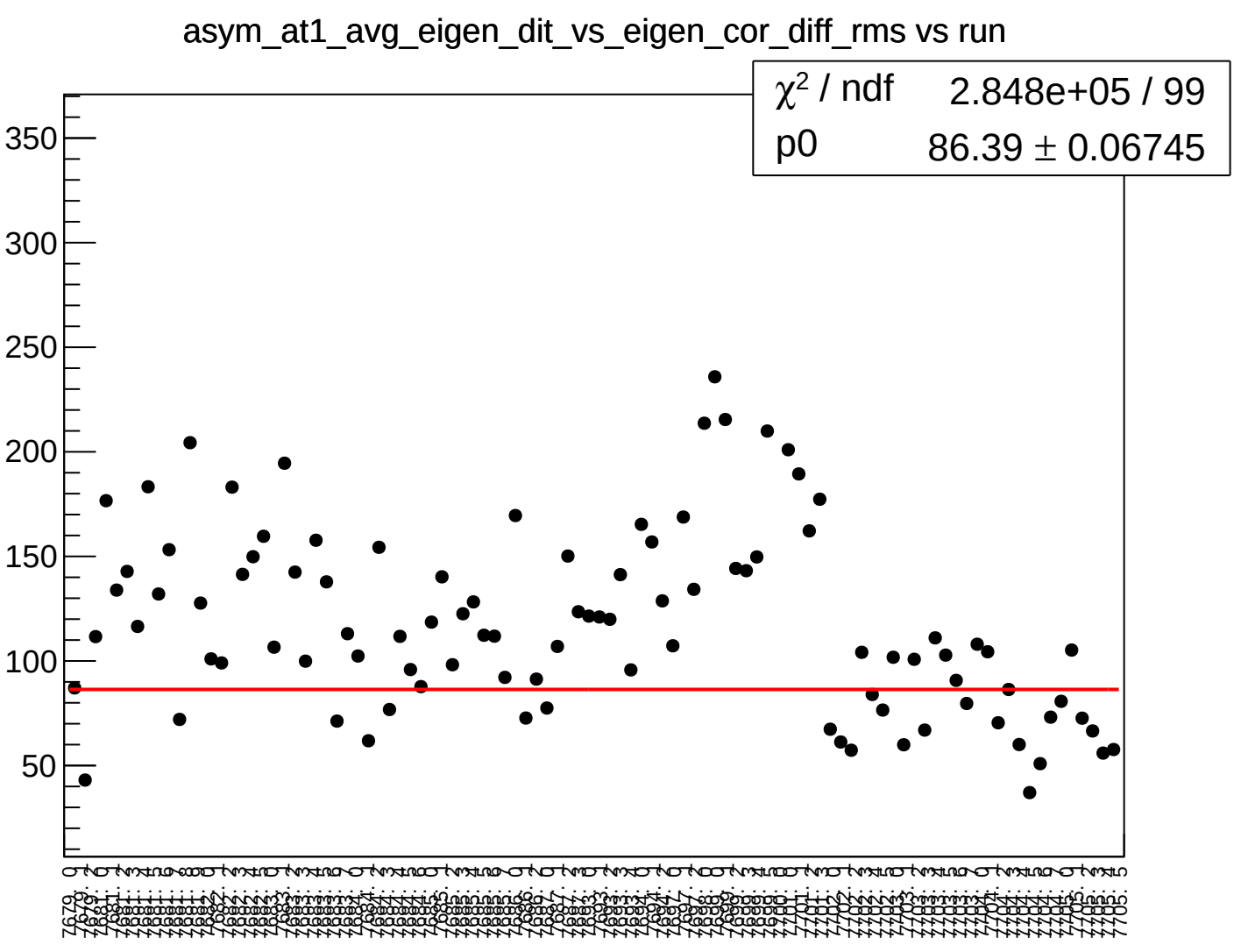

pull1D
Entries 100
Mean 0.06983
Std Dev 0.9266

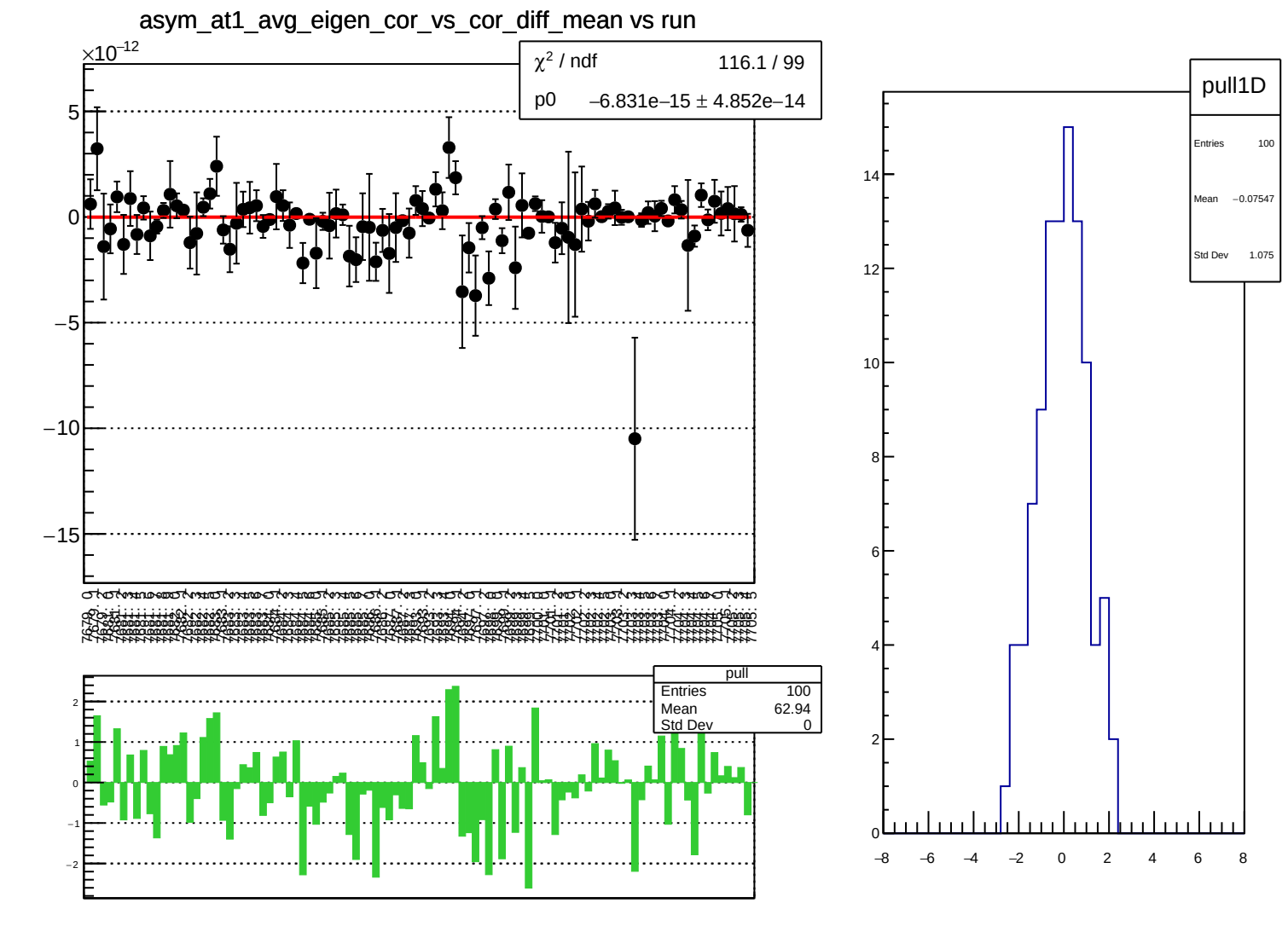

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.679e+05 / 99
p0 0.0007851 ± 7.635e−07
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

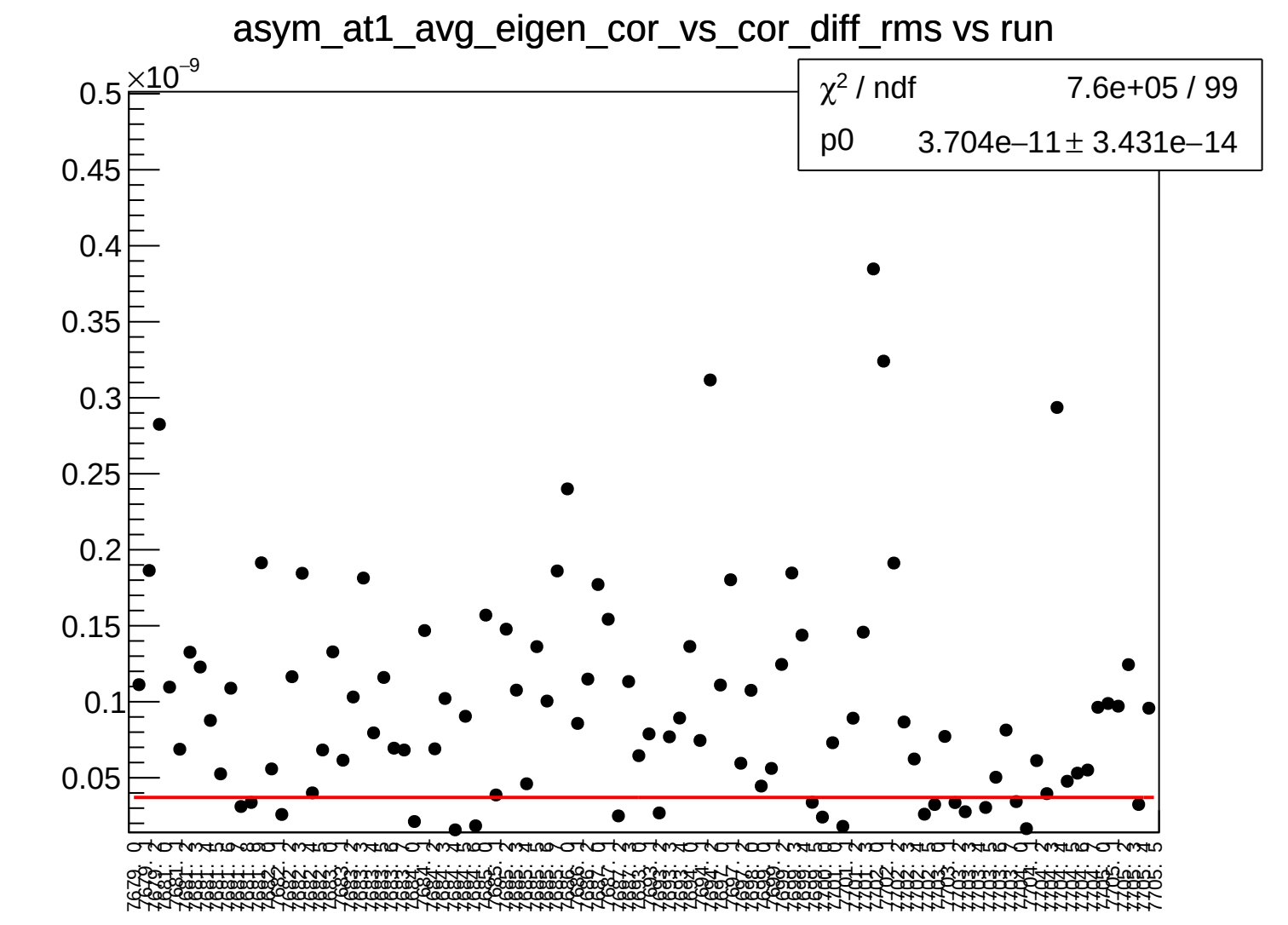

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.33 / 99
p0 0.04575 ± 0.09539
pull
Entries 100
Mean 292.7
Std Dev 0
pull1D
Entries 100
Mean −0.01135
Std Dev 0.9712

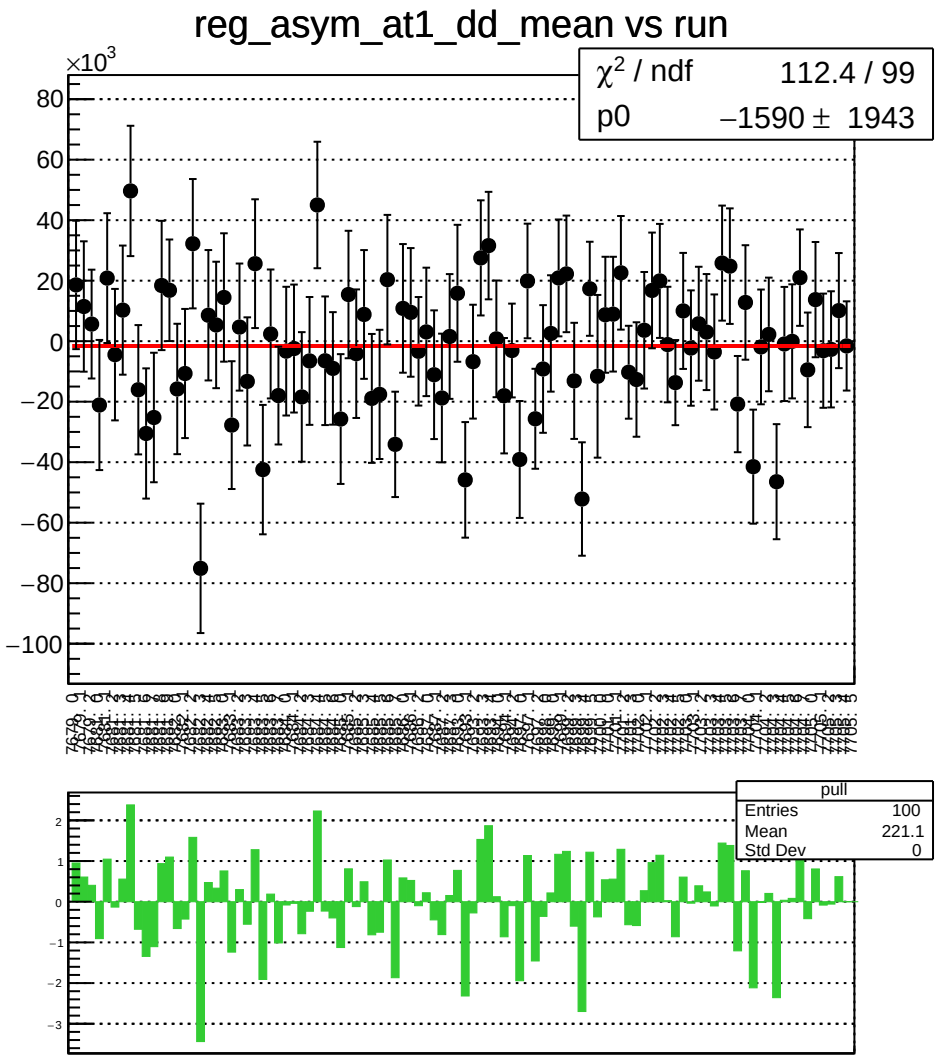

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.848e+05 / 99
p0 86.39 ± 0.06745
350
300
250
200
150
100
50

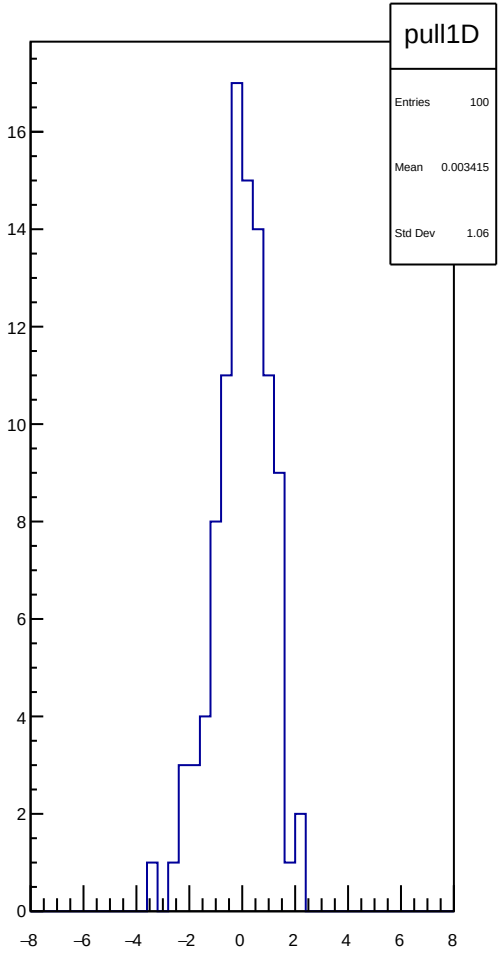

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.33 / 99
p0 0.04575 ± 0.09539
pull
Entries 100
Mean 292.7
Std Dev 0
pull1D
Entries 100
Mean −0.01135
Std Dev 0.9712

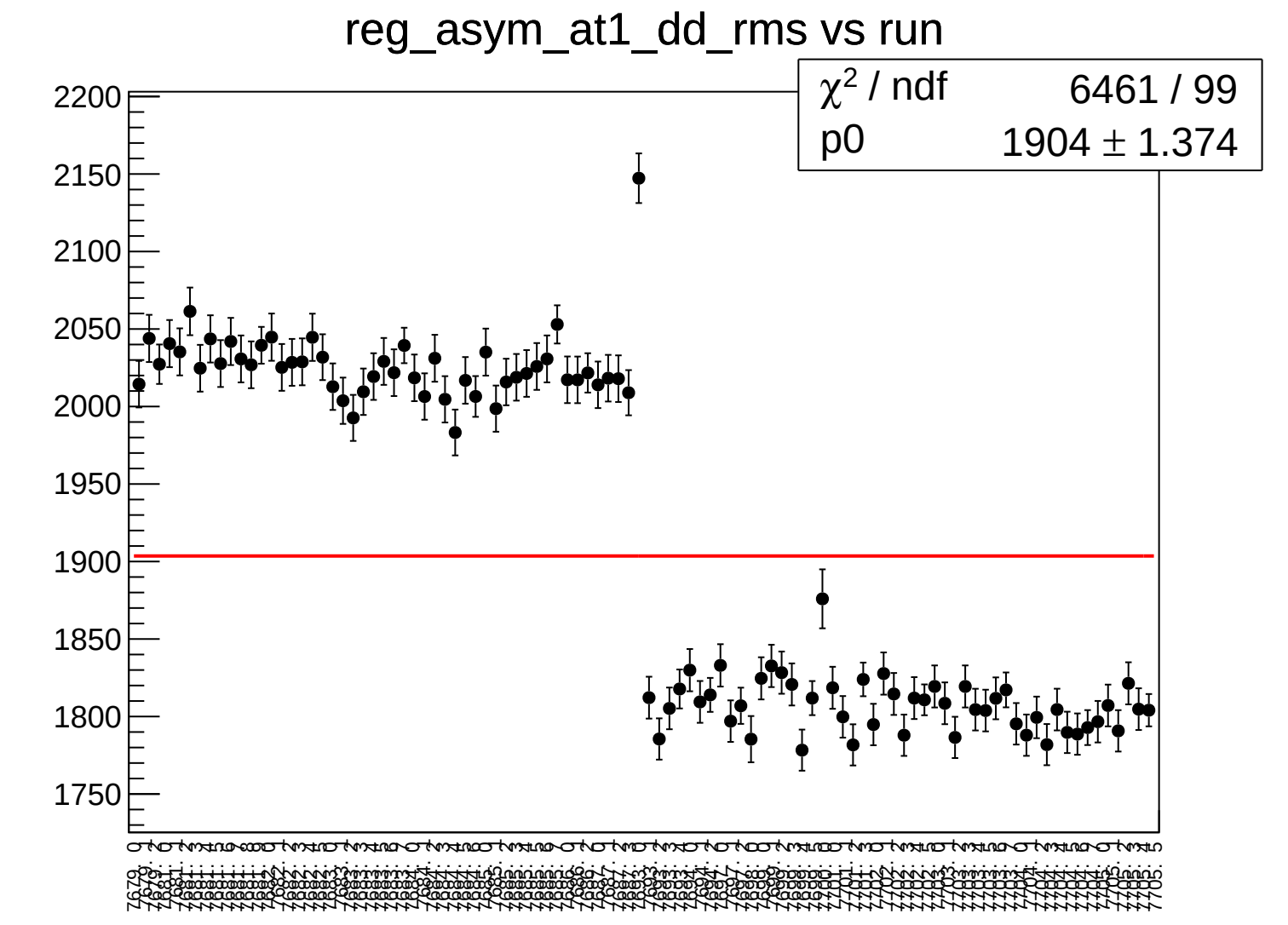

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.848e+05 / 99
p0 86.39 ± 0.06745
350
300
250
200
150
100
50

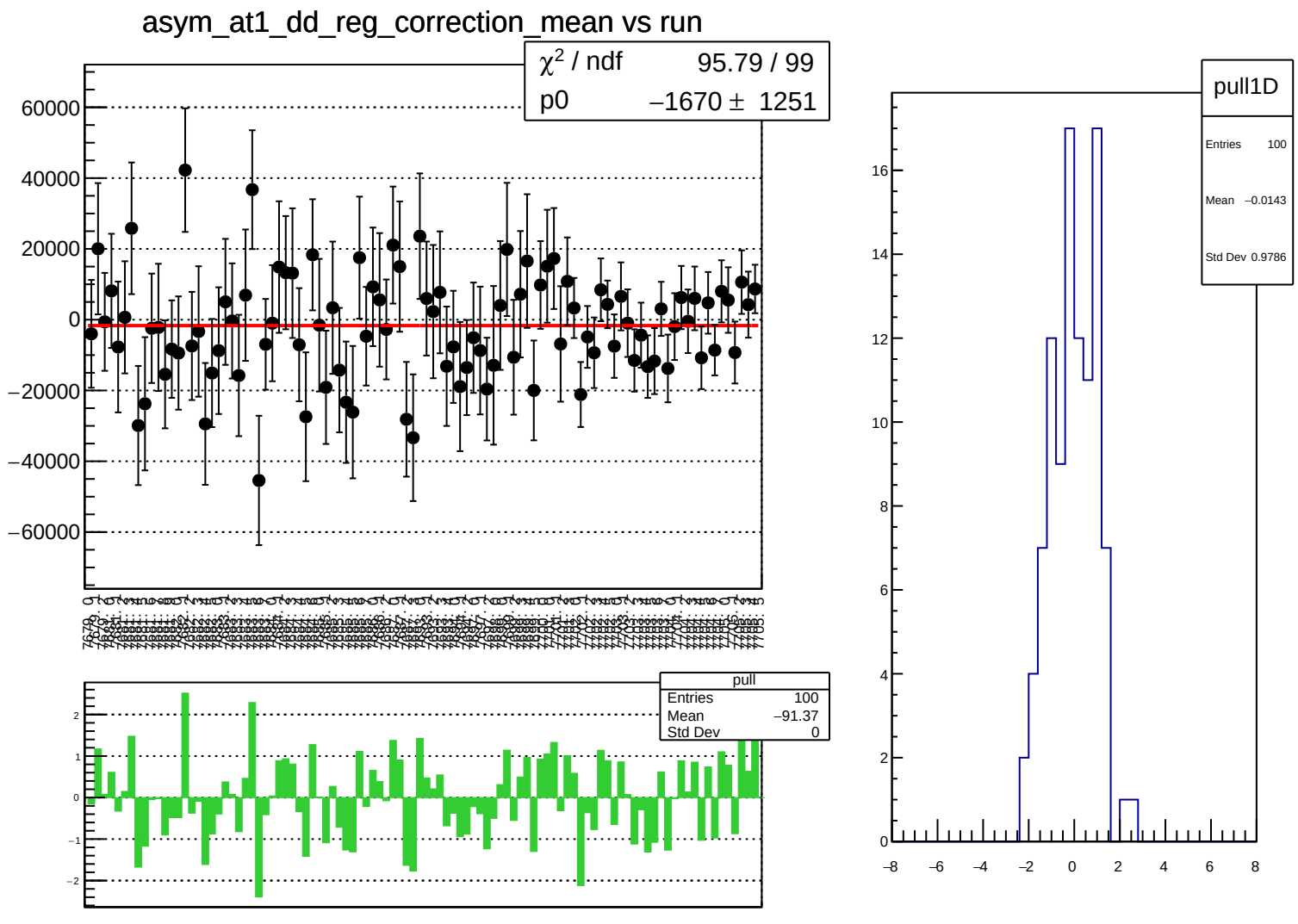

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 116.1 / 99
p0 −6.831e−15 ± 4.852e−14
pull
Entries 100
Mean 62.94
Std Dev 0
pull1D
Entries 100
Mean −0.07547
Std Dev 1.075

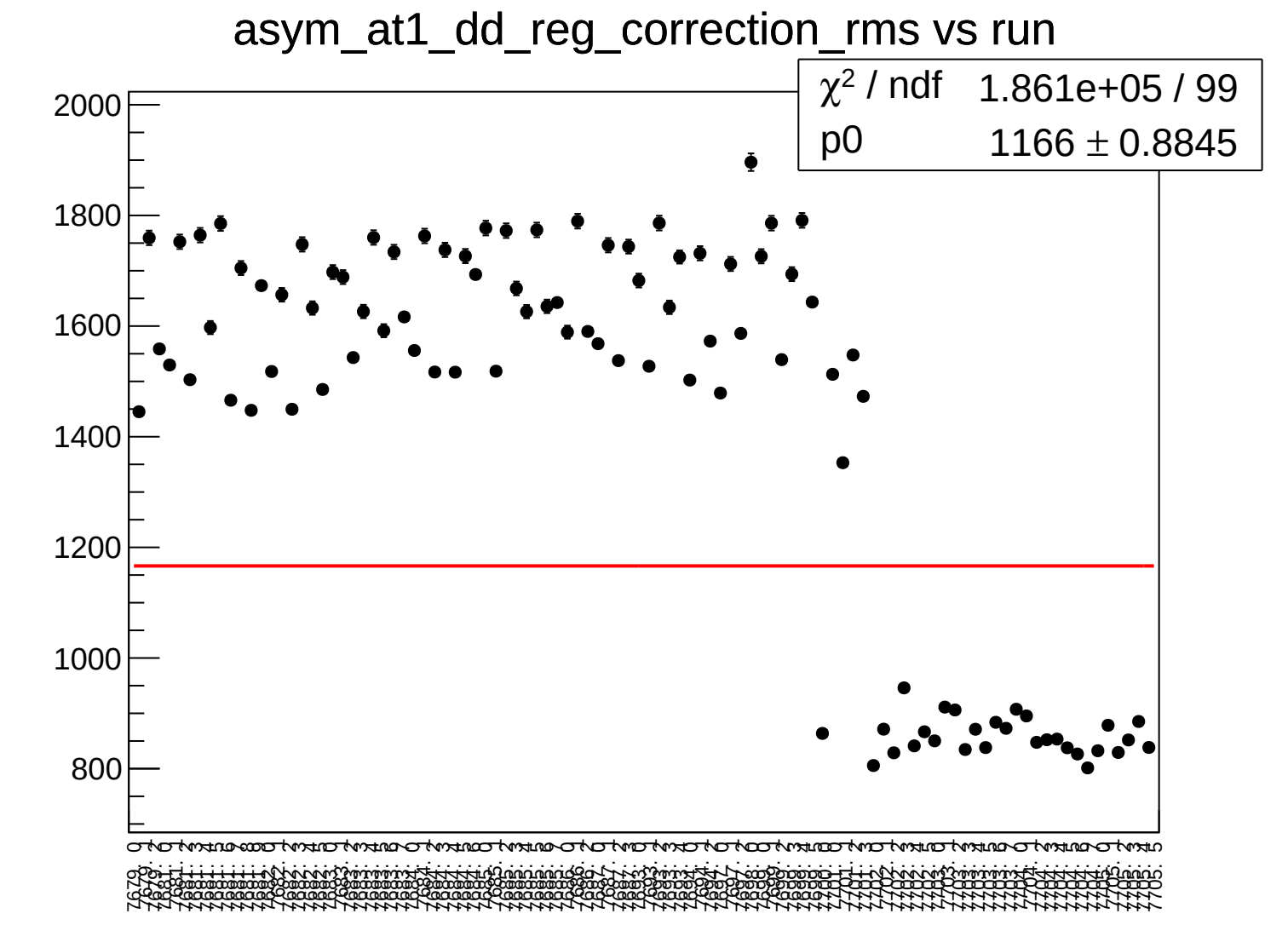

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.6e+05 / 99
p0 3.704e−11 ± 3.431e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

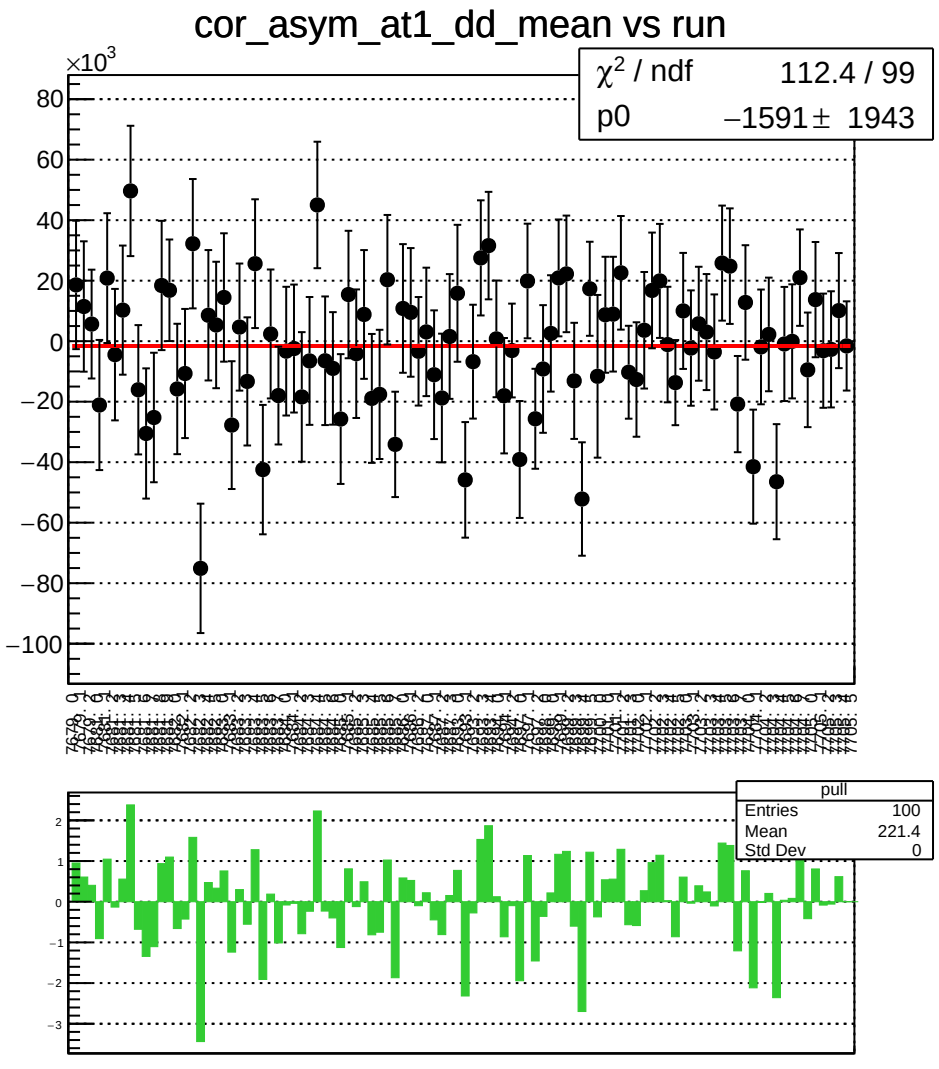

reg_asym_at1_dd_mean vs run
×10^3
χ² / ndf 112.4 / 99
p0 −1590 ± 1943
pull
Entries 100
Mean 221.1
Std Dev 0

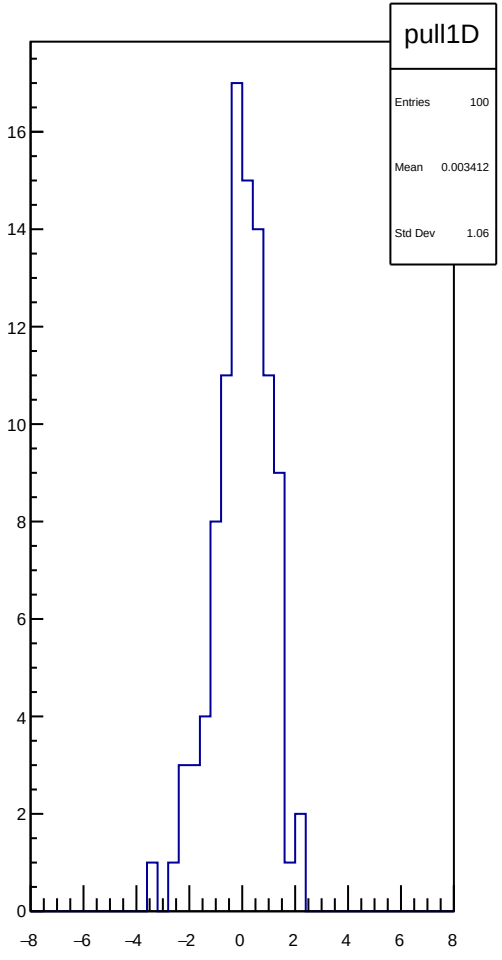

pull1D
Entries 100
Mean 0.003415
Std Dev 1.06

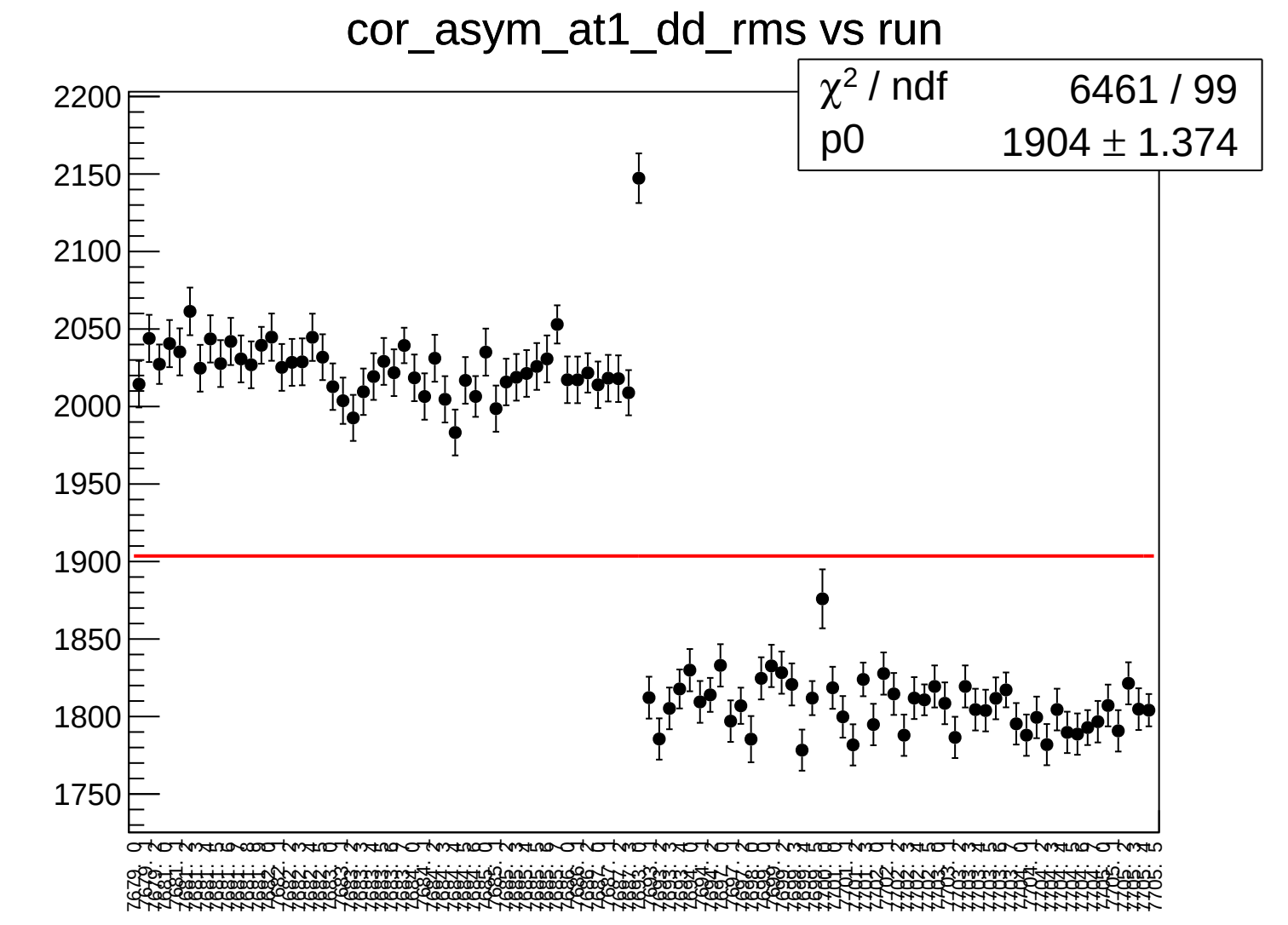

reg_asym_at1_dd_rms vs run
χ² / ndf 6461 / 99
p0 1904 ± 1.374
2200
2150
2100
2050
2000
1950
1900
1850
1800
1750

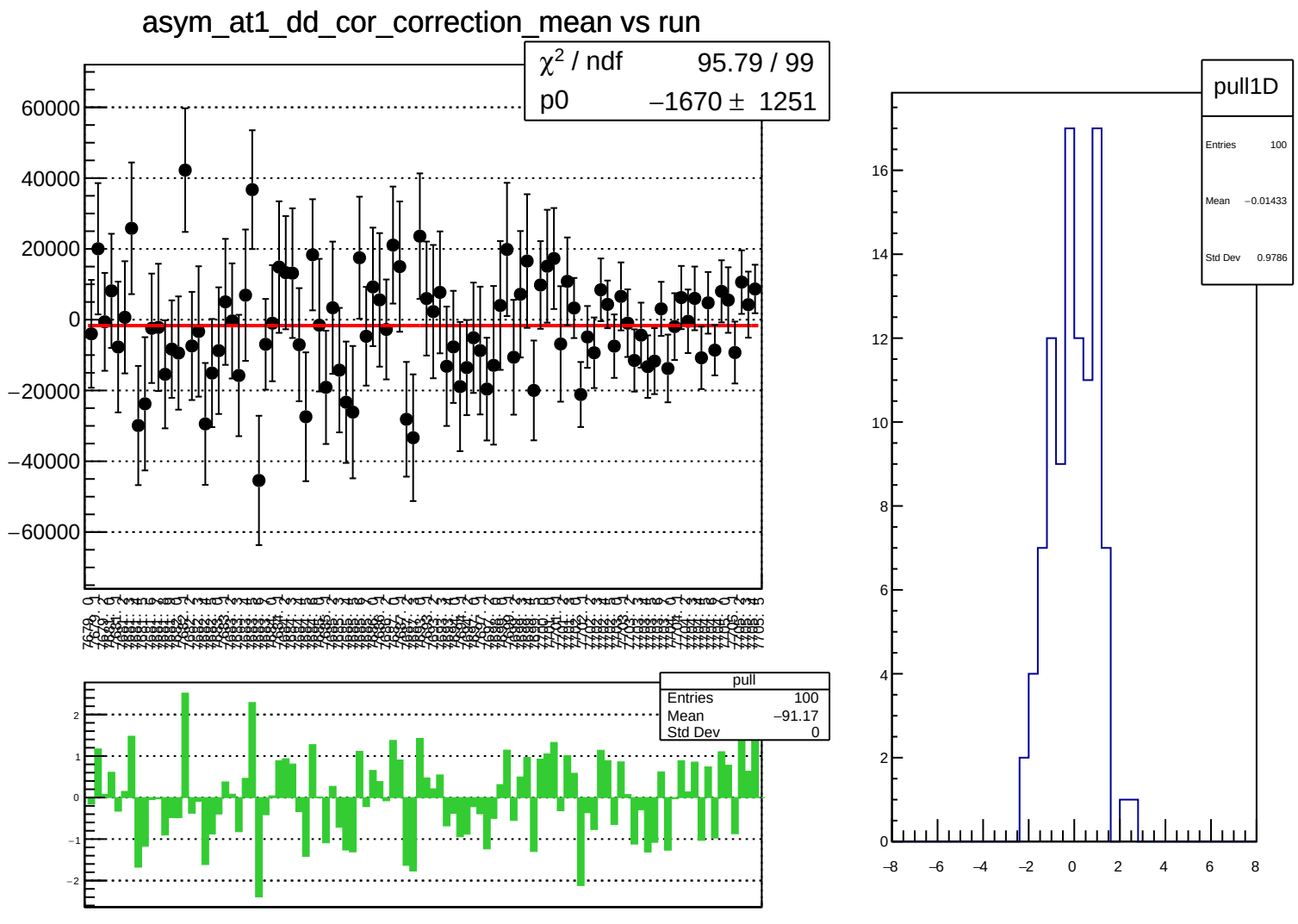

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 95.79 / 99
p0 −1670 ± 1251
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −91.37
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.0143
Std Dev 0.9786
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

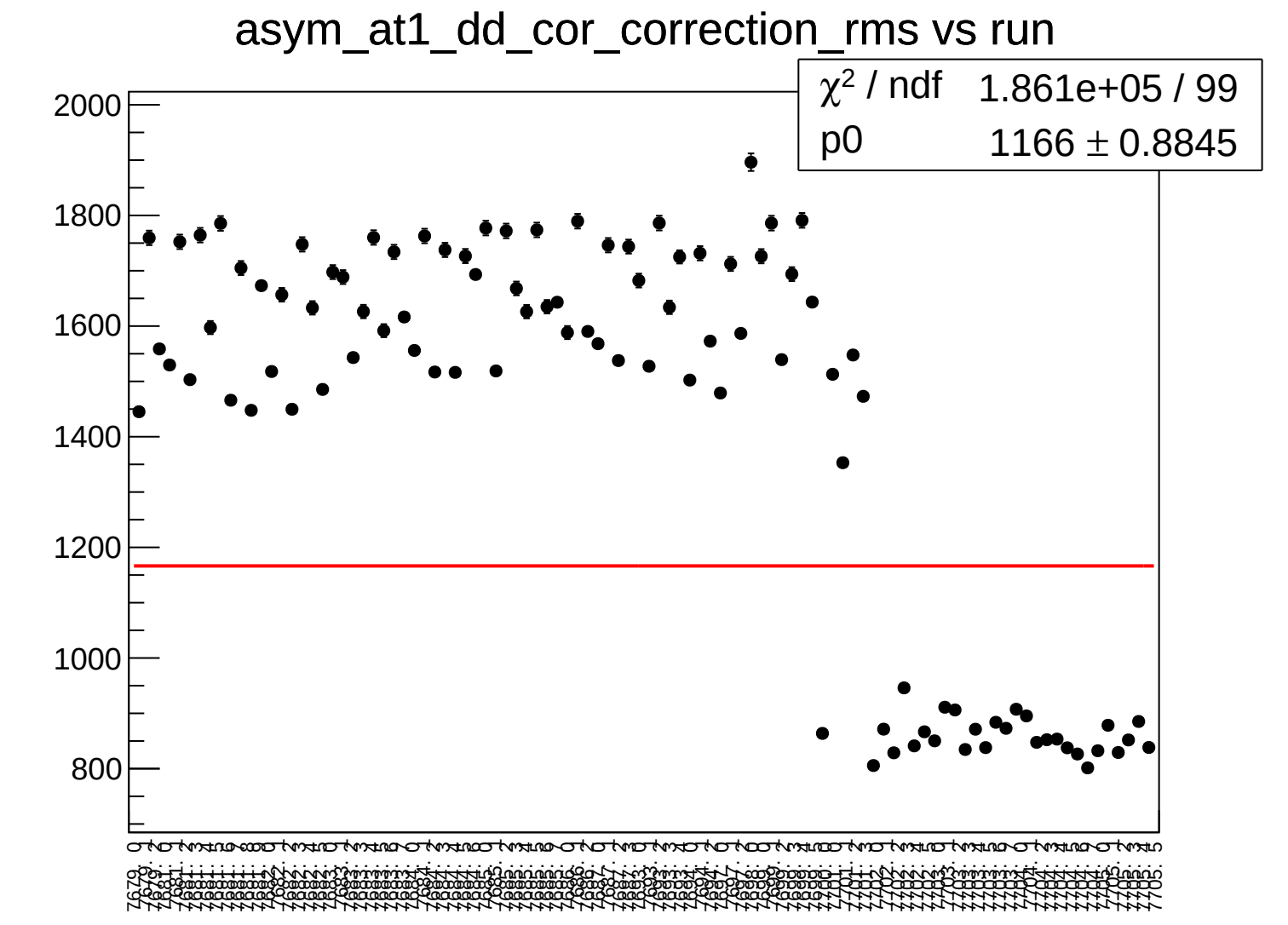

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 1.861e+05 / 99
p0 1166 ± 0.8845
2000
1800
1600
1400
1200
1000
800

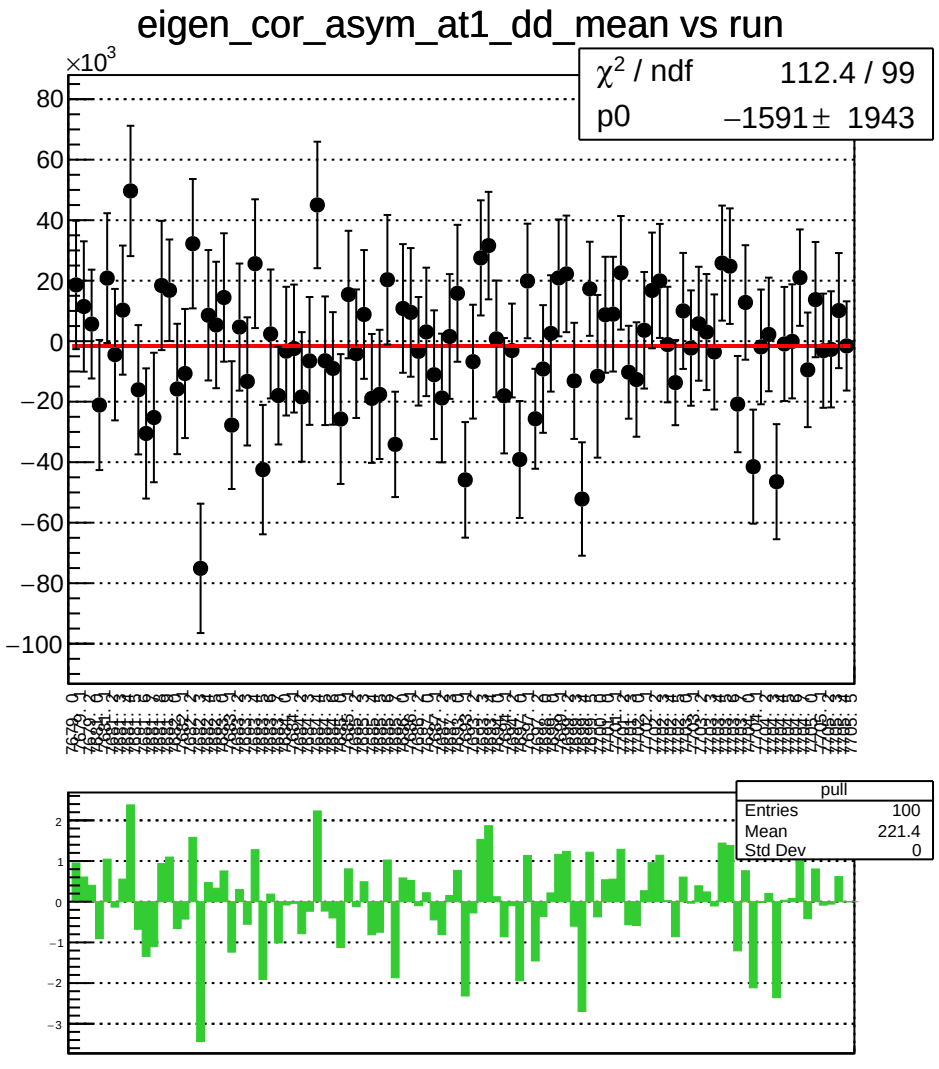

cor_asym_at1_dd_mean vs run
×10^3
χ^2 / ndf 112.4 / 99
p0 −1591 ± 1943
pull
Entries 100
Mean 221.4
Std Dev 0

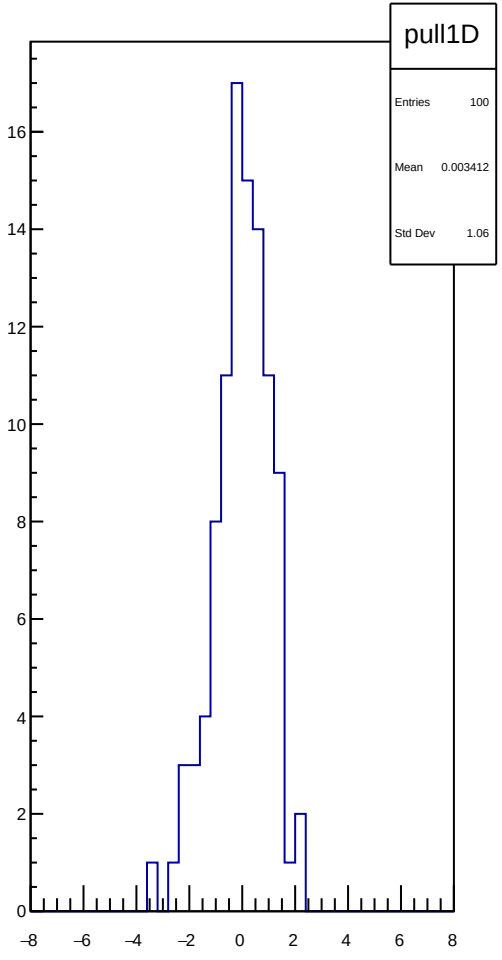

pull1D
Entries 100
Mean 0.003412
Std Dev 1.06

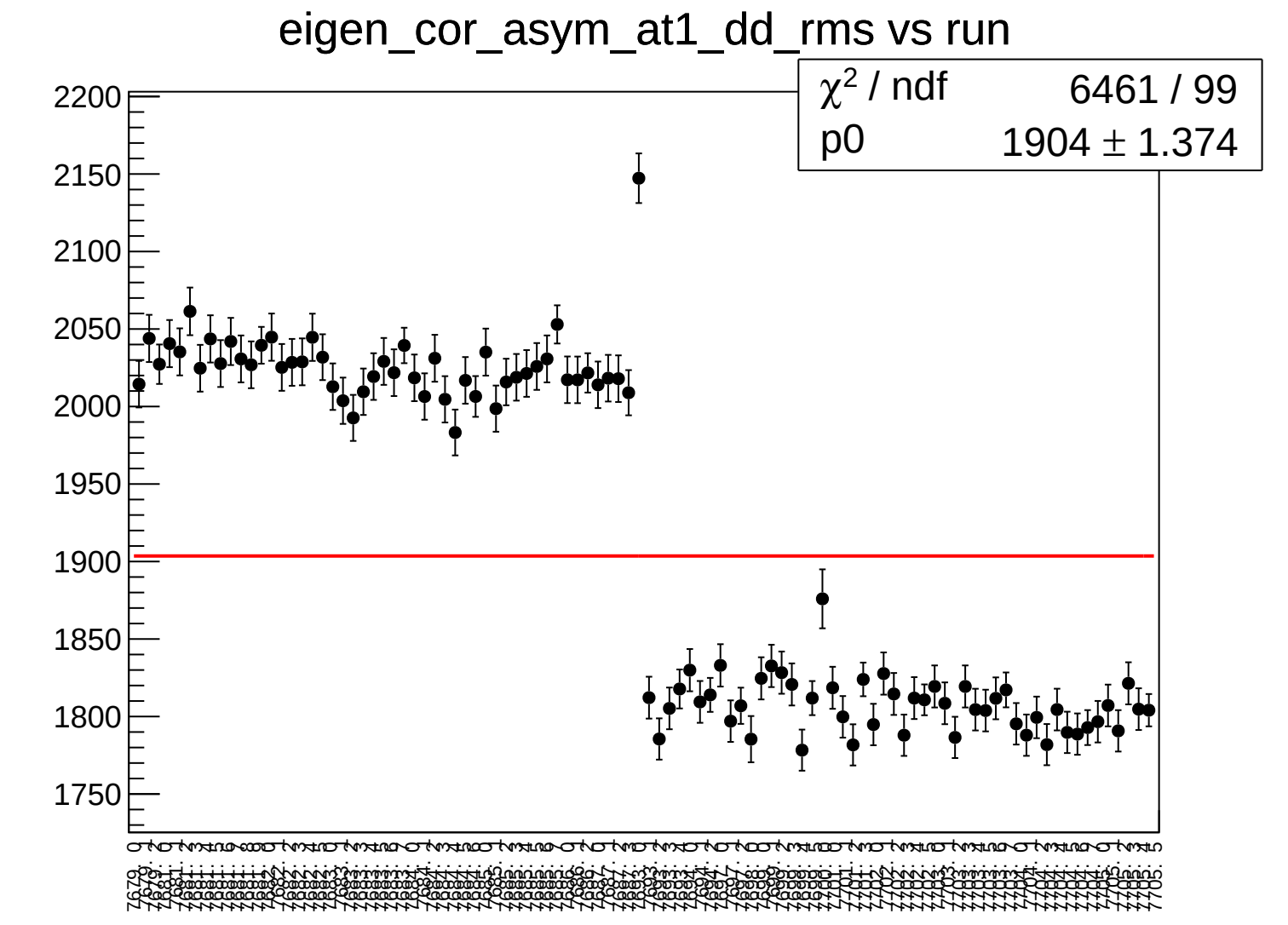

cor_asym_at1_dd_rms vs run
χ^2 / ndf 6461 / 99
p0 1904 ± 1.374
2200
2150
2100
2050
2000
1950
1900
1850
1800
1750

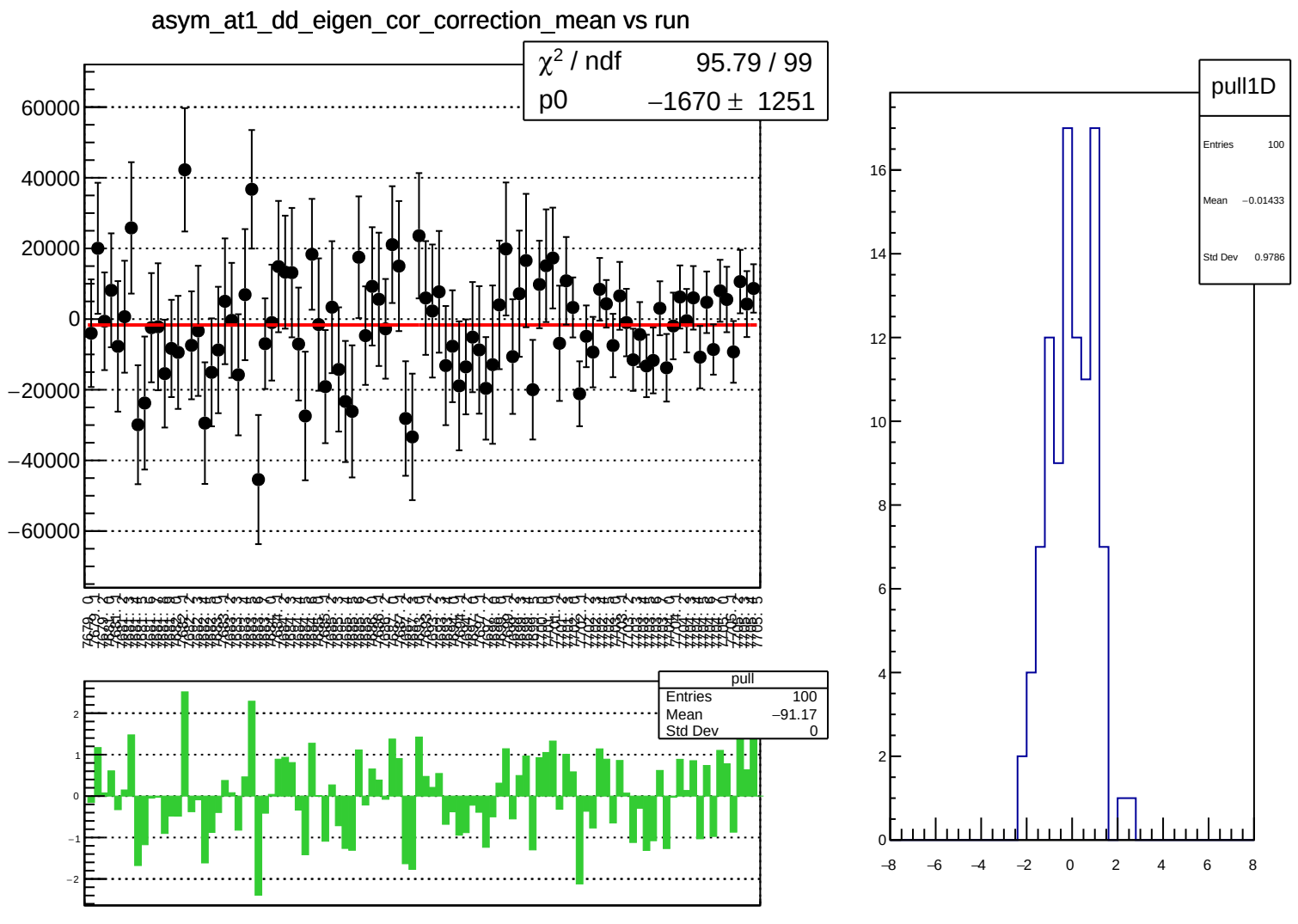

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 95.79 / 99
p0 −1670 ± 1251
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −91.17
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.01433
Std Dev 0.9786
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

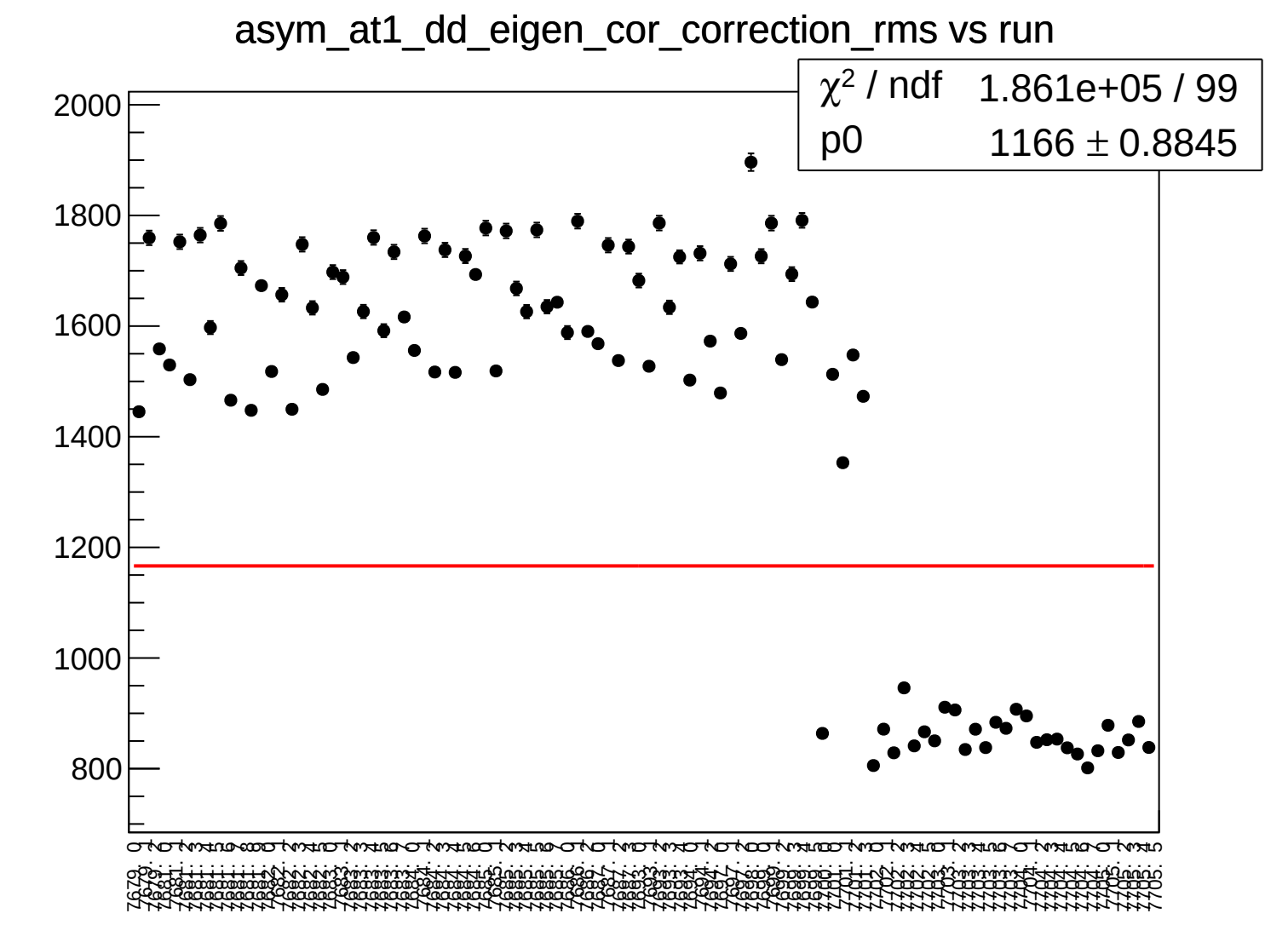

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 1.861e+05 / 99
p0 1166 ± 0.8845
2000
1800
1600
1400
1200
1000
800

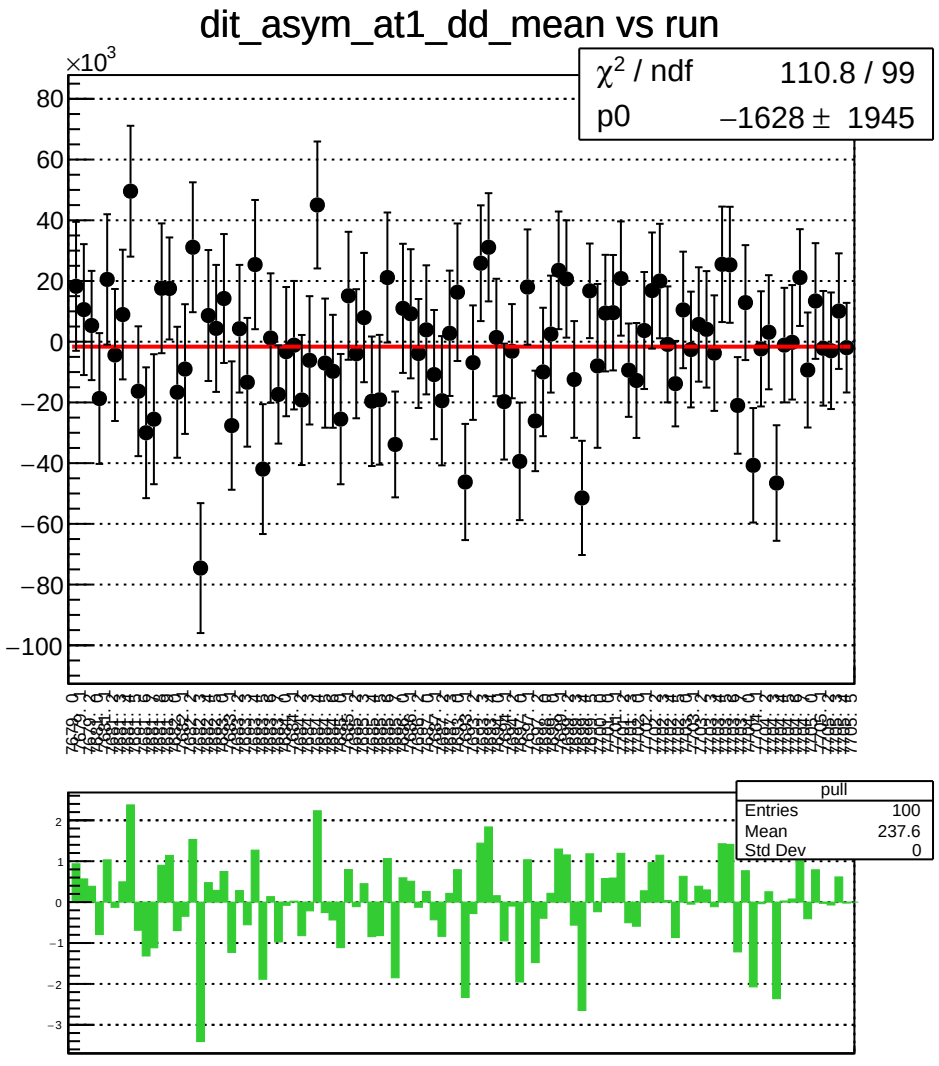

eigen_cor_asym_at1_dd_mean vs run
×10^3
χ² / ndf 112.4 / 99
p0 −1591 ± 1943
pull
Entries 100
Mean 221.4
Std Dev 0

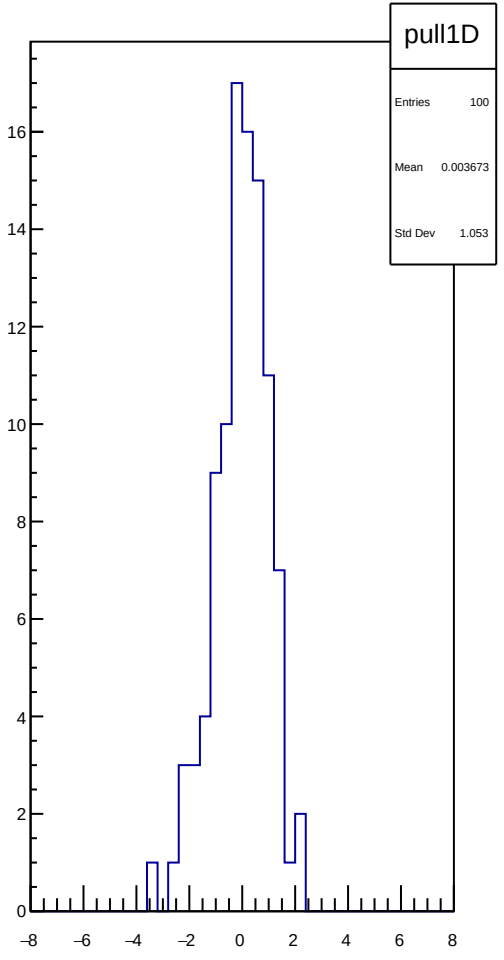

pull1D
Entries 100
Mean 0.003412
Std Dev 1.06

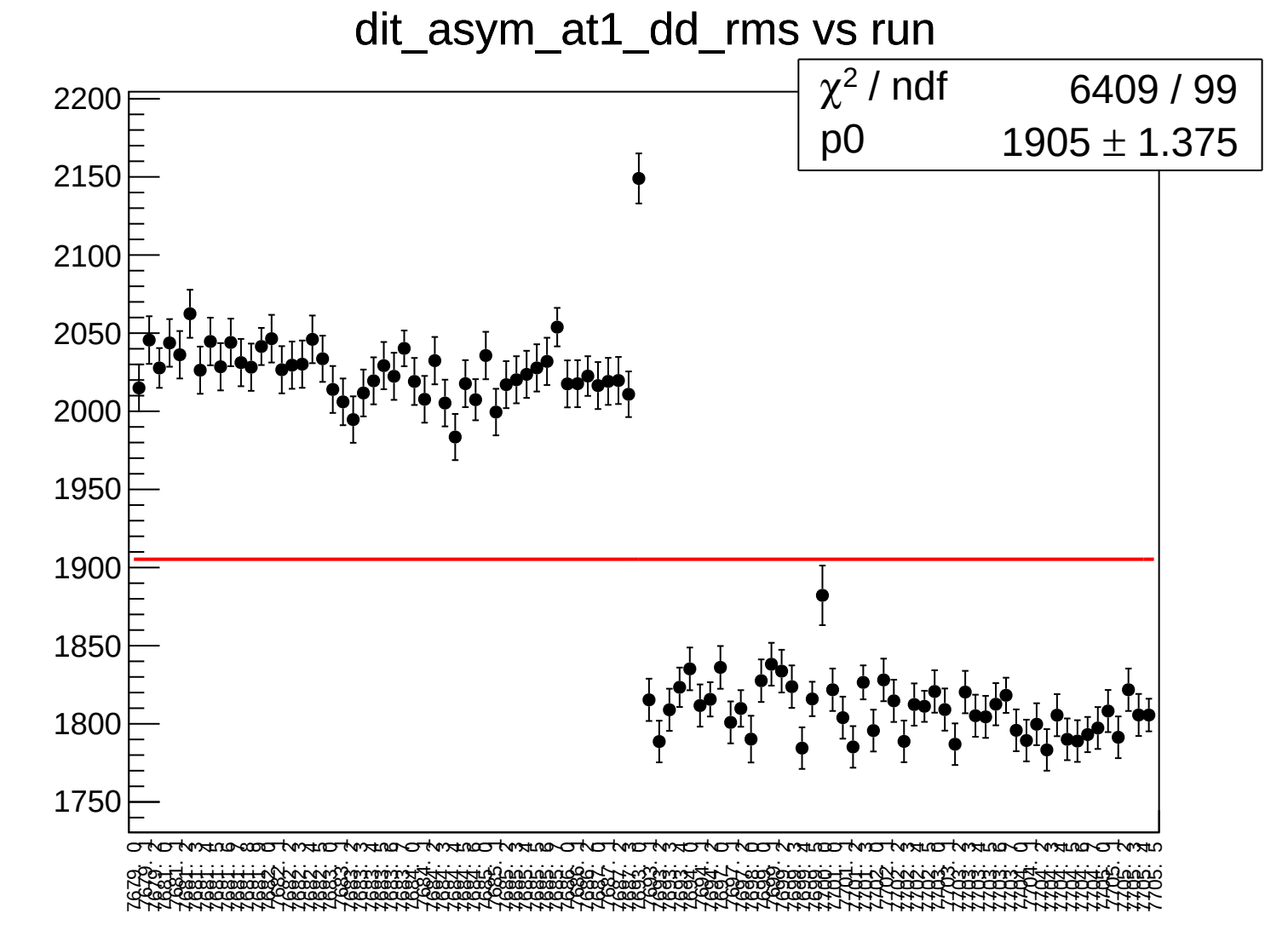

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 6461 / 99
p0 1904 ± 1.374
2200
2150
2100
2050
2000
1950
1900
1850
1800
1750

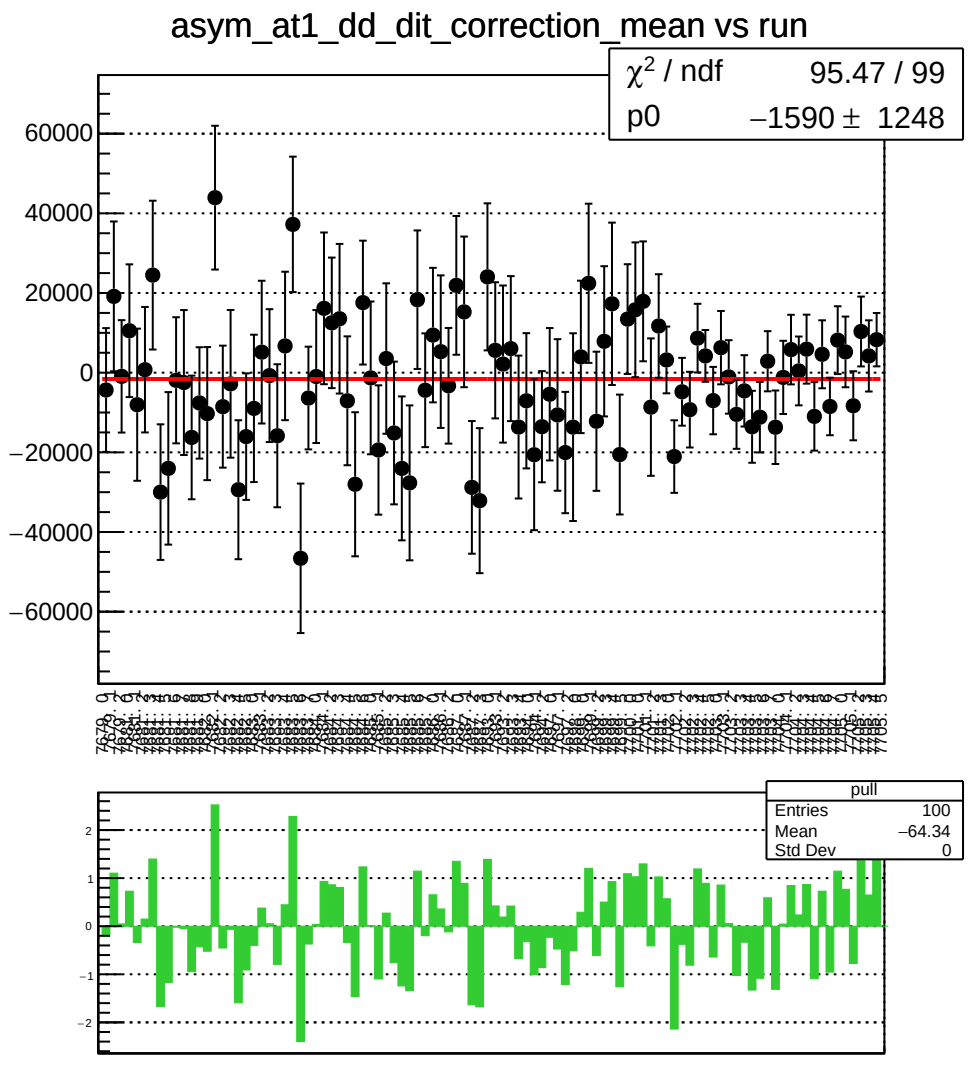

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 95.79 / 99
p0 −1670 ± 1251
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −91.17
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.01433
Std Dev 0.9786
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

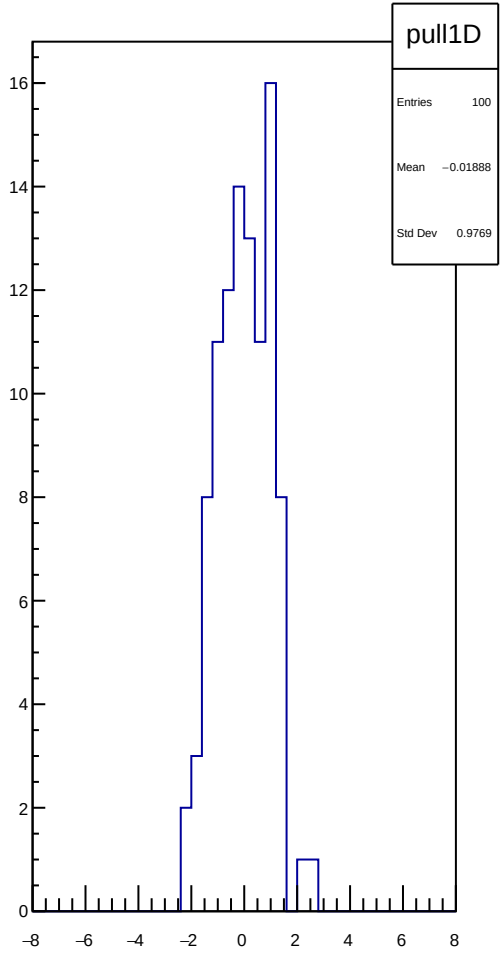

asym_at1_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 1.861e+05 / 99
p0 1166 ± 0.8845
2000
1800
1600
1400
1200
1000
800

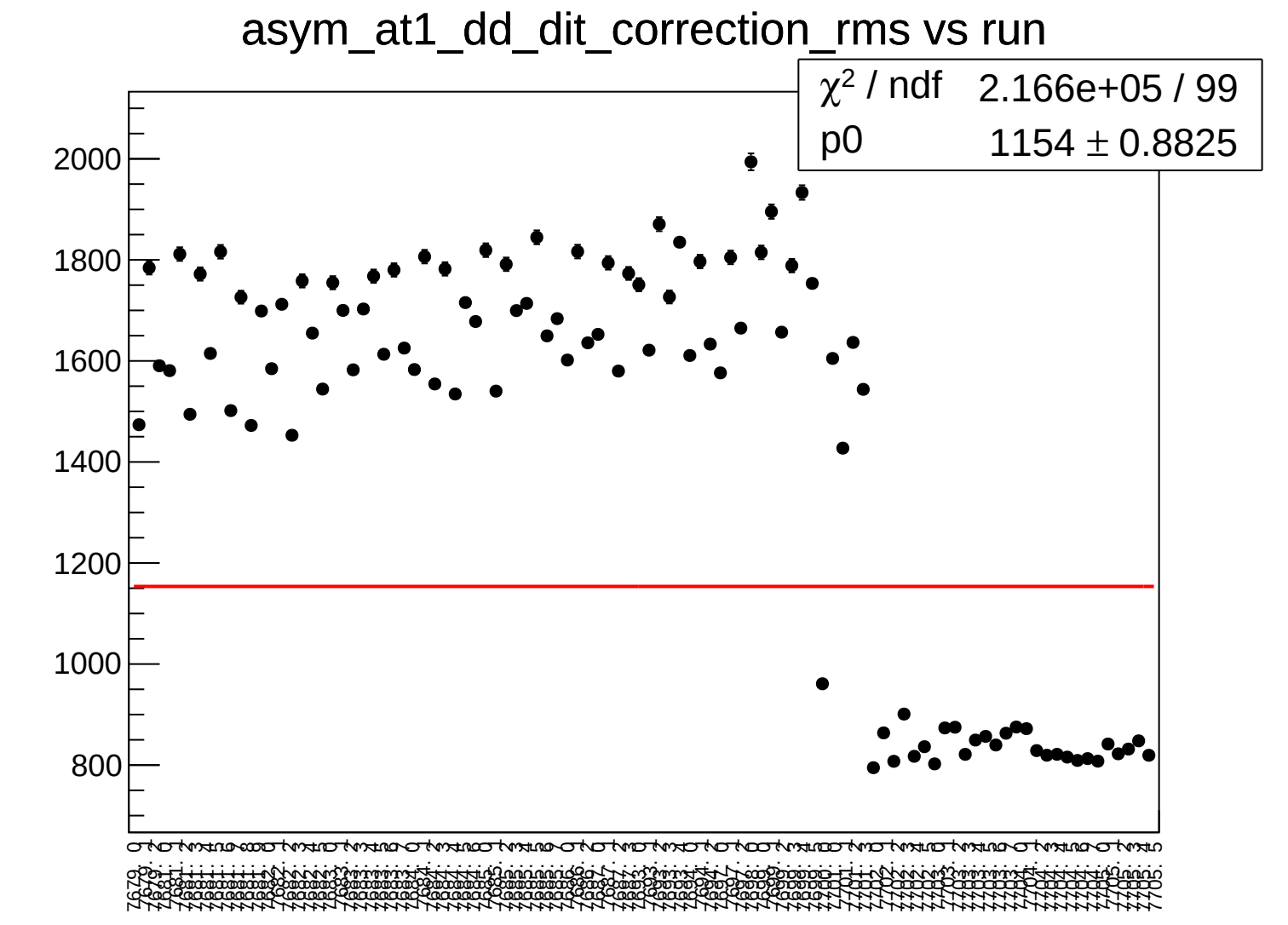

dit_asym_at1_dd_mean vs run
×10^3
χ^2 / ndf 110.8 / 99
p0 −1628 ± 1945
pull
Entries 100
Mean 237.6
Std Dev 0

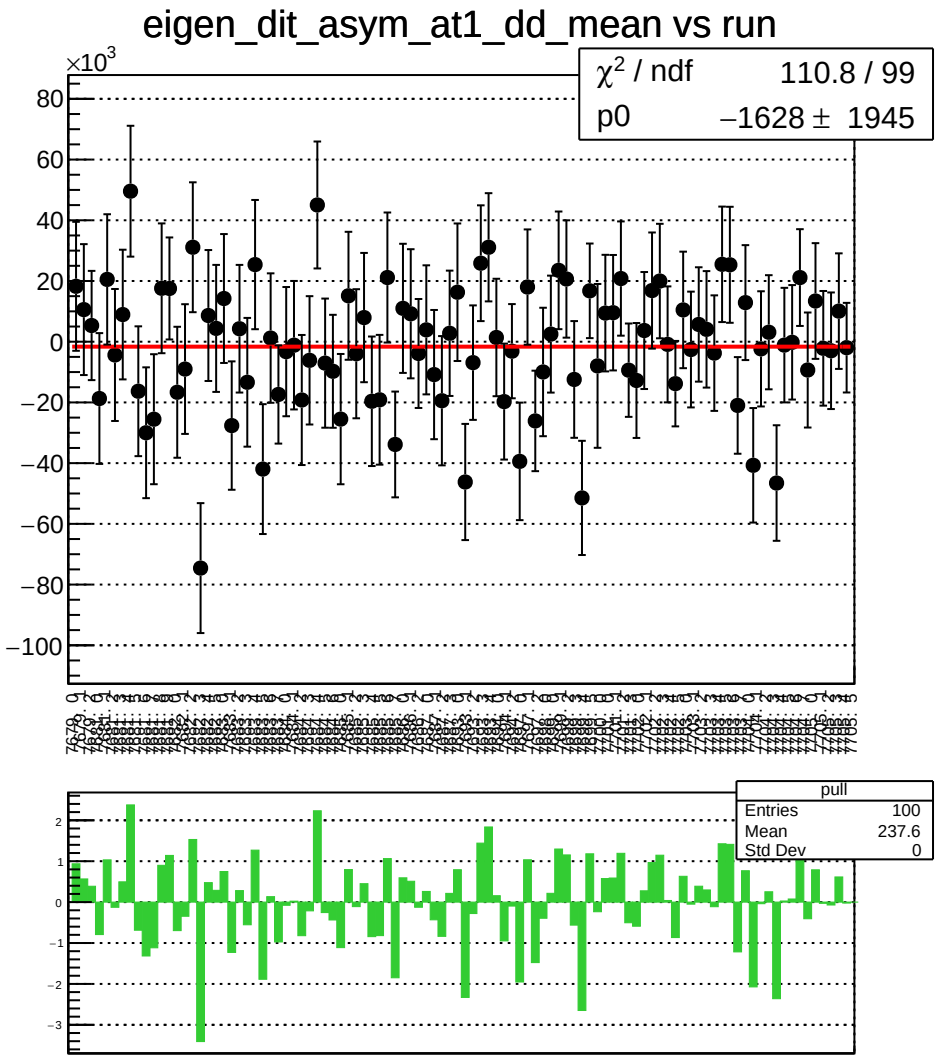

pull1D
Entries 100
Mean 0.003673
Std Dev 1.053

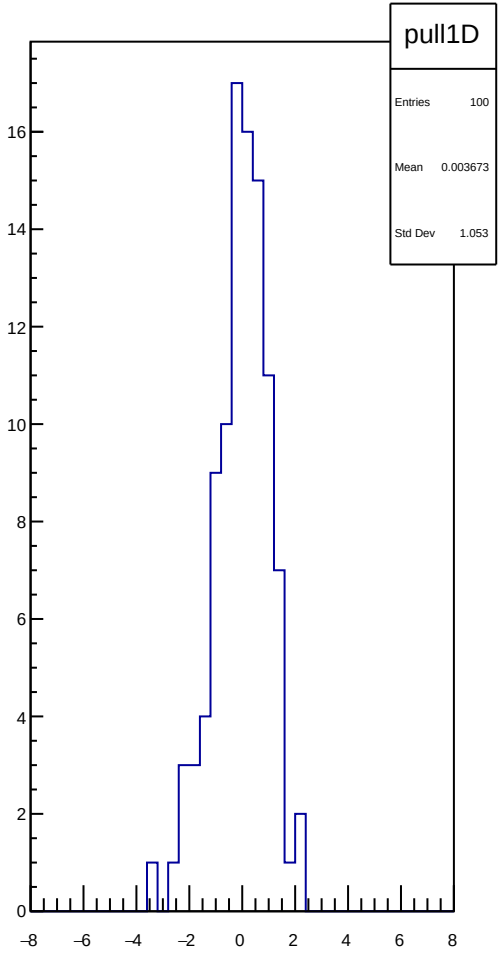

dit_asym_at1_dd_rms vs run
χ² / ndf 6409 / 99
p0 1905 ± 1.375
2200
2150
2100
2050
2000
1950
1900
1850
1800
1750

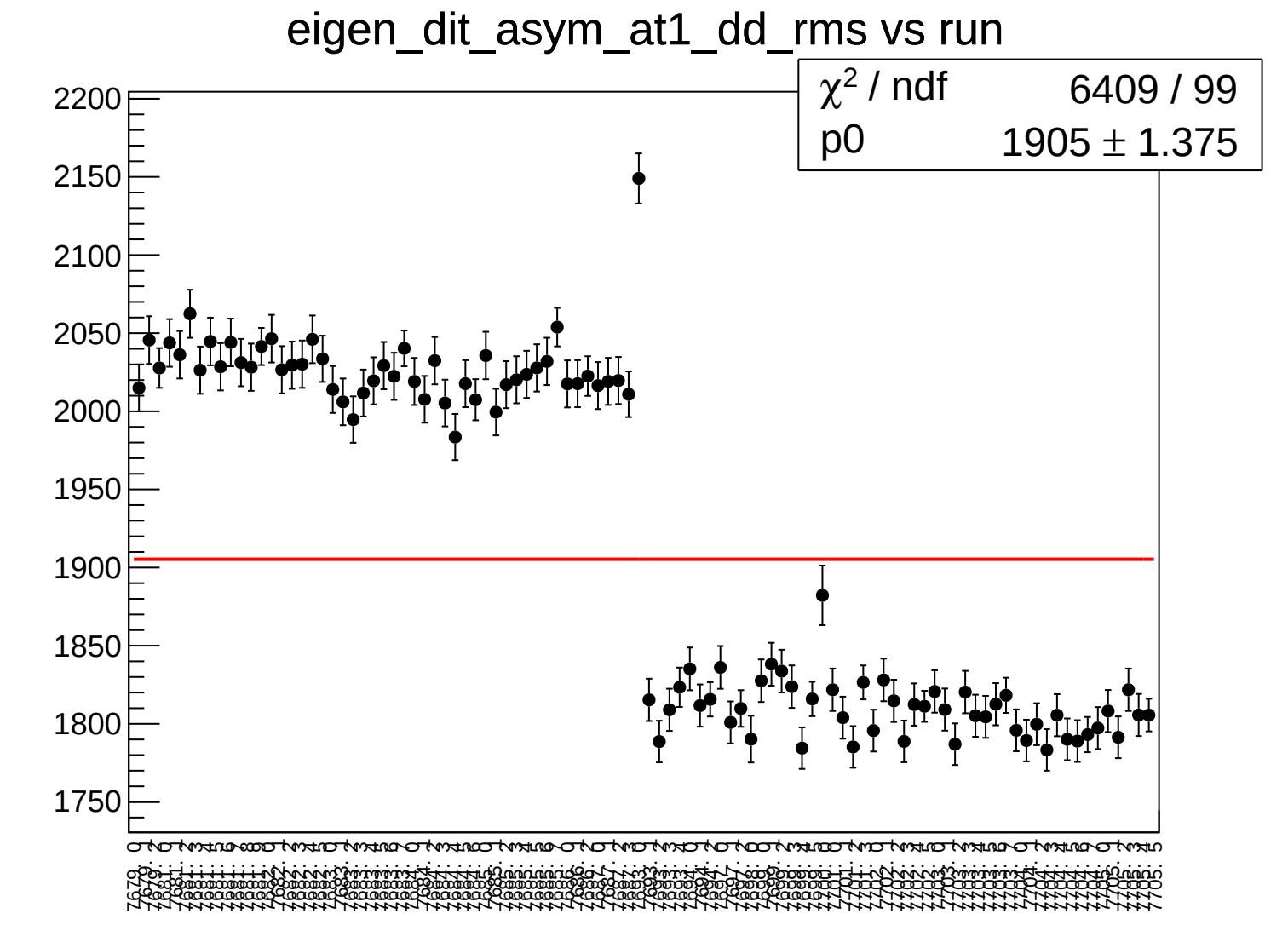

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 95.47 / 99
p0 −1590 ± 1248
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −64.34
Std Dev 0
2
1
0
−1
−2

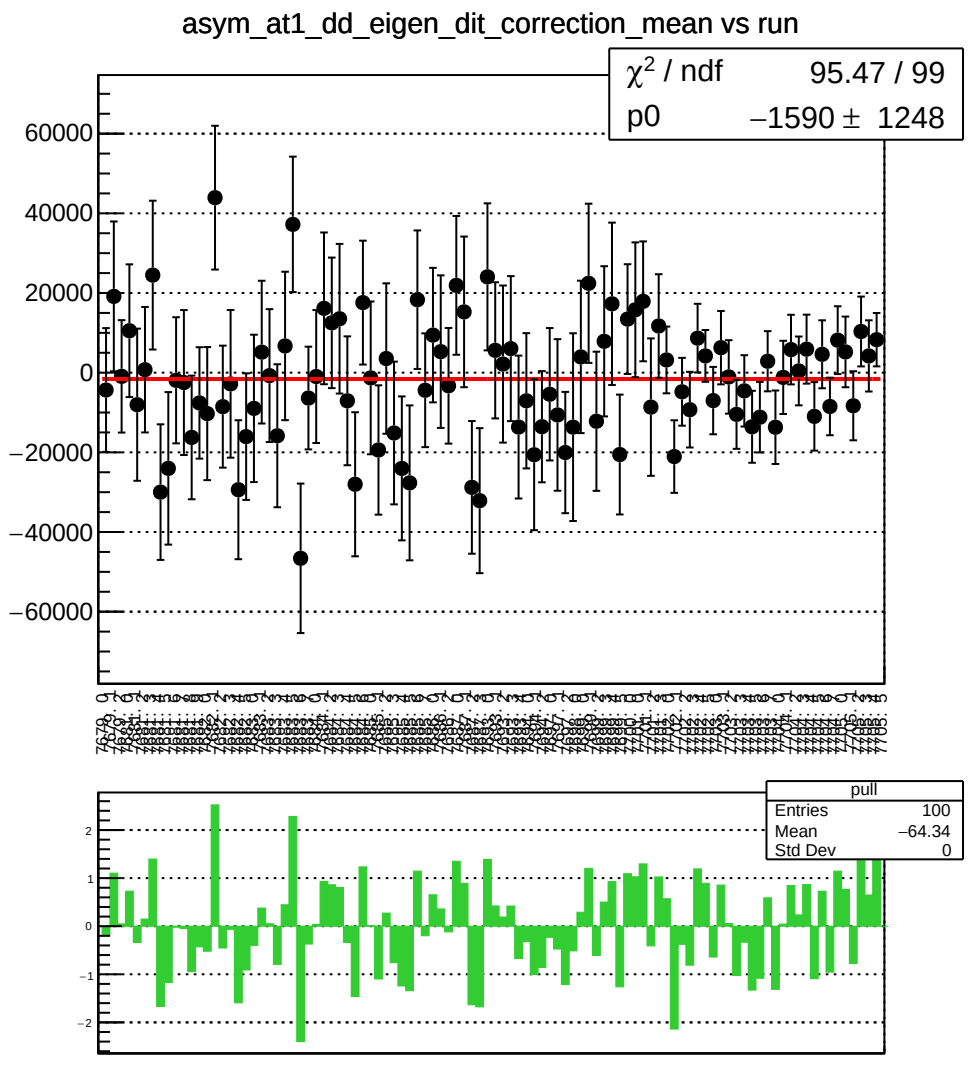

pull1D
Entries 100
Mean −0.01888
Std Dev 0.9769
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

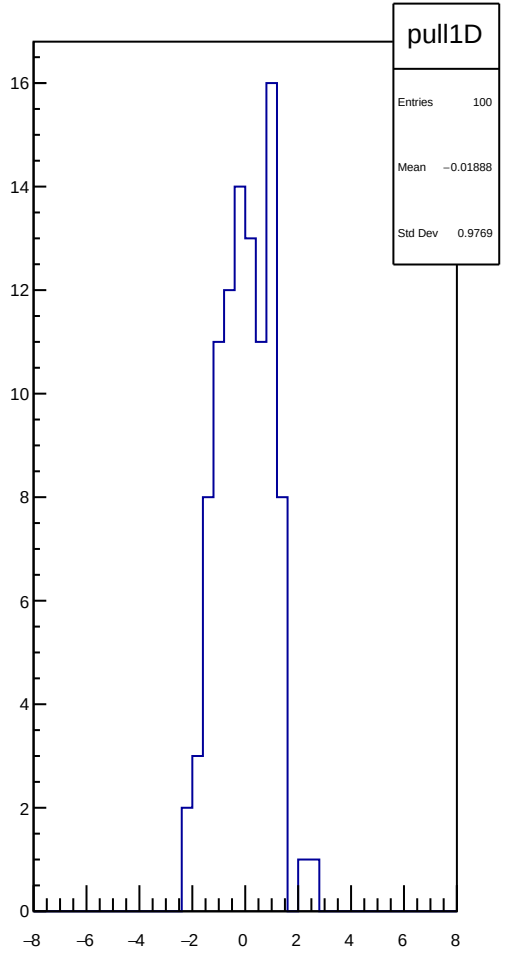

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 2.166e+05 / 99
p0 1154 ± 0.8825
2000
1800
1600
1400
1200
1000
800

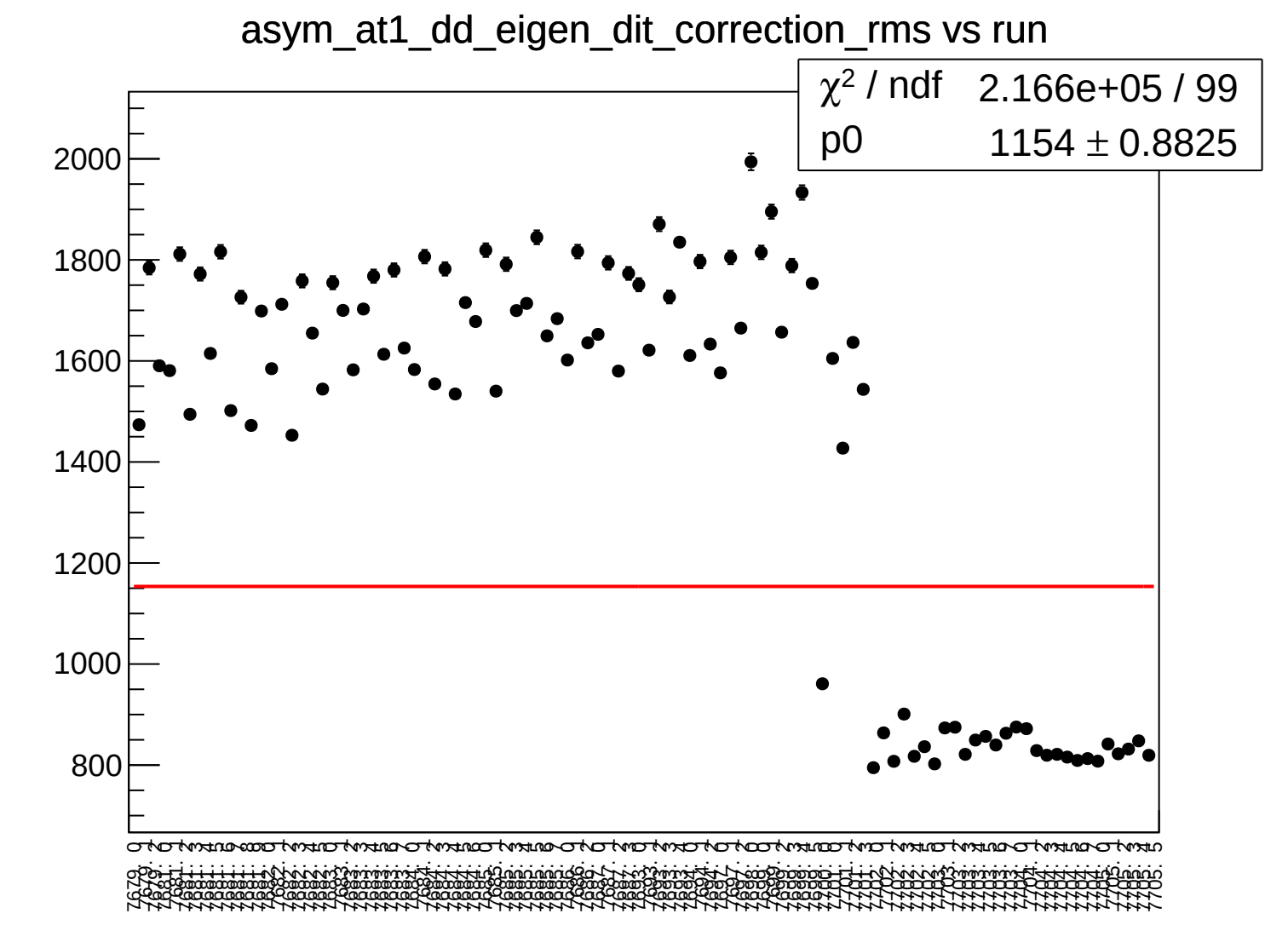

eigen_dit_asym_at1_dd_mean vs run
×10^3
χ² / ndf 110.8 / 99
p0 −1628 ± 1945
pull
Entries 100
Mean 237.6
Std Dev 0

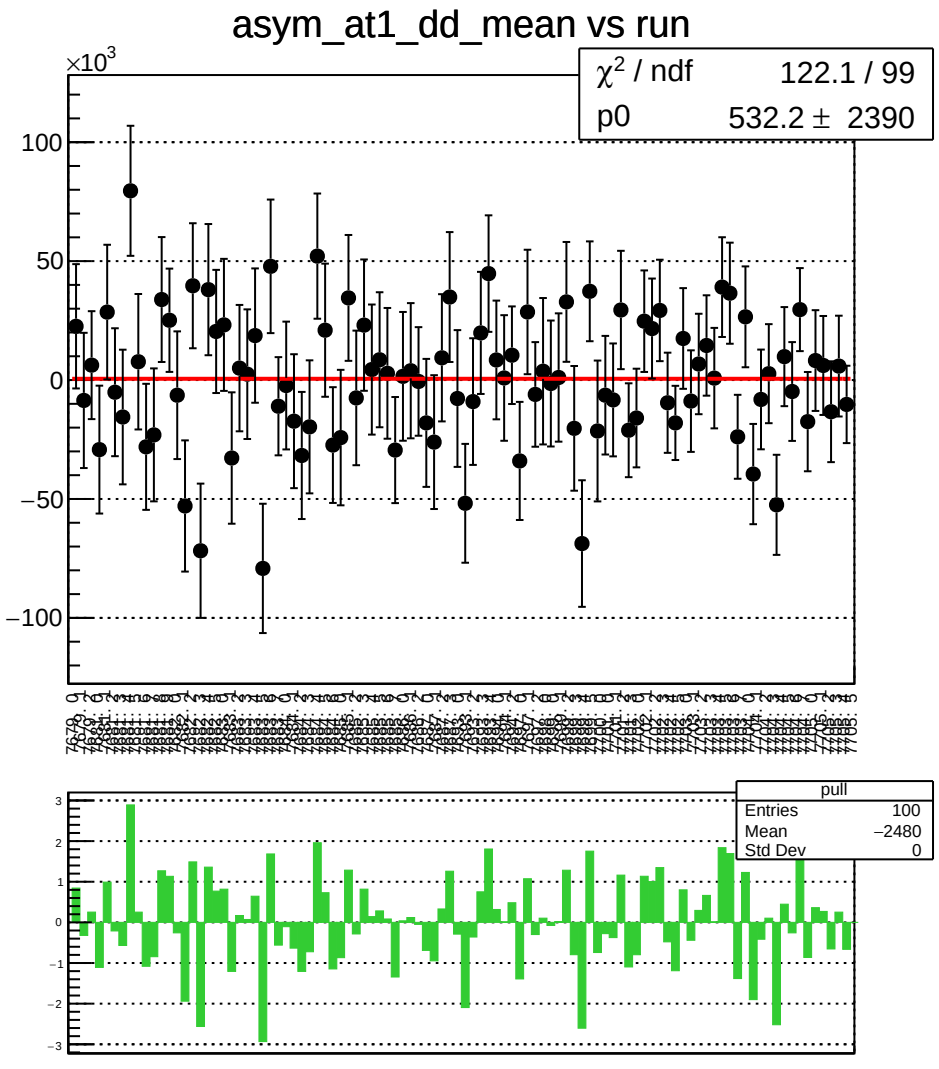

pull1D
Entries 100
Mean 0.003673
Std Dev 1.053

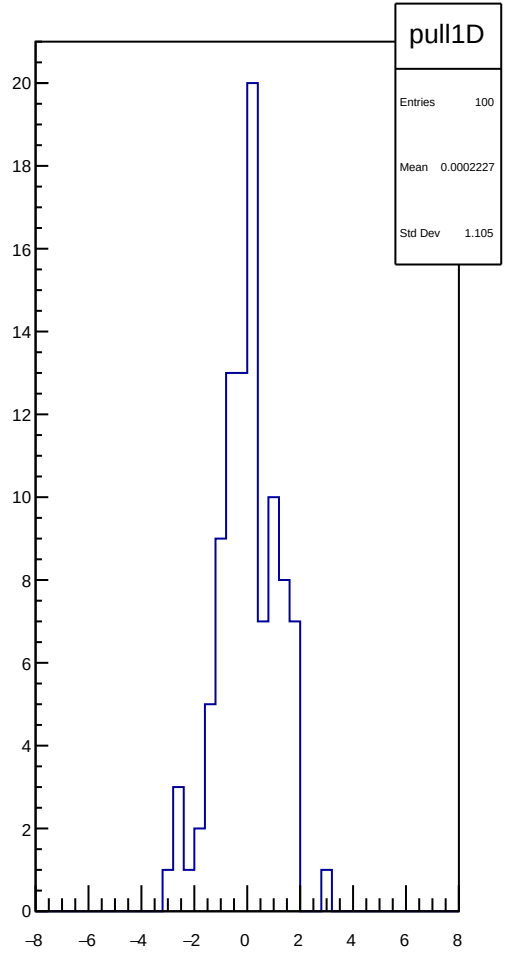

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 6409 / 99
p0 1905 ± 1.375
2200
2150
2100
2050
2000
1950
1900
1850
1800
1750

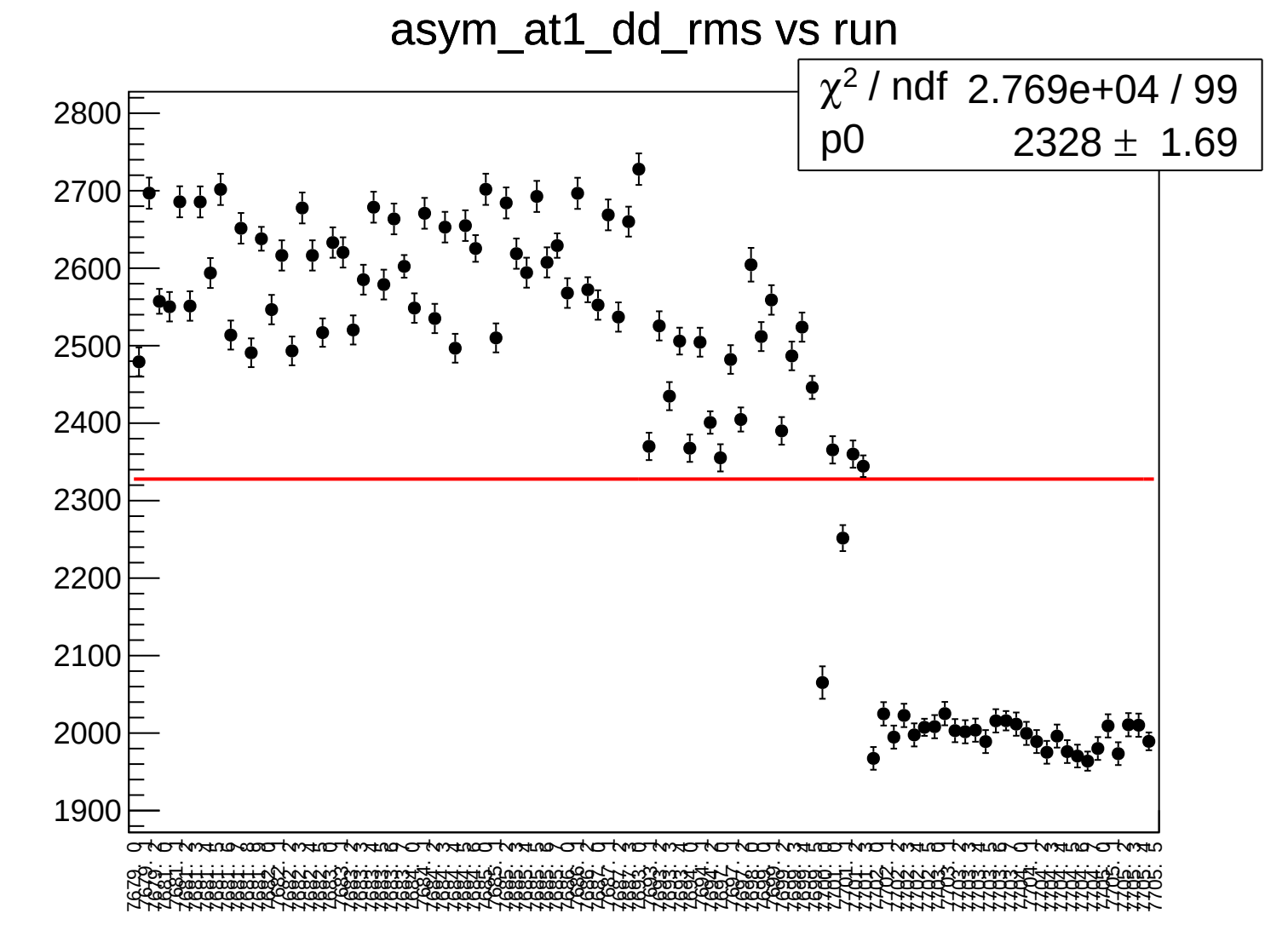

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 95.47 / 99
p0 −1590 ± 1248
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −64.34
Std Dev 0
2
1
0
−1
−2

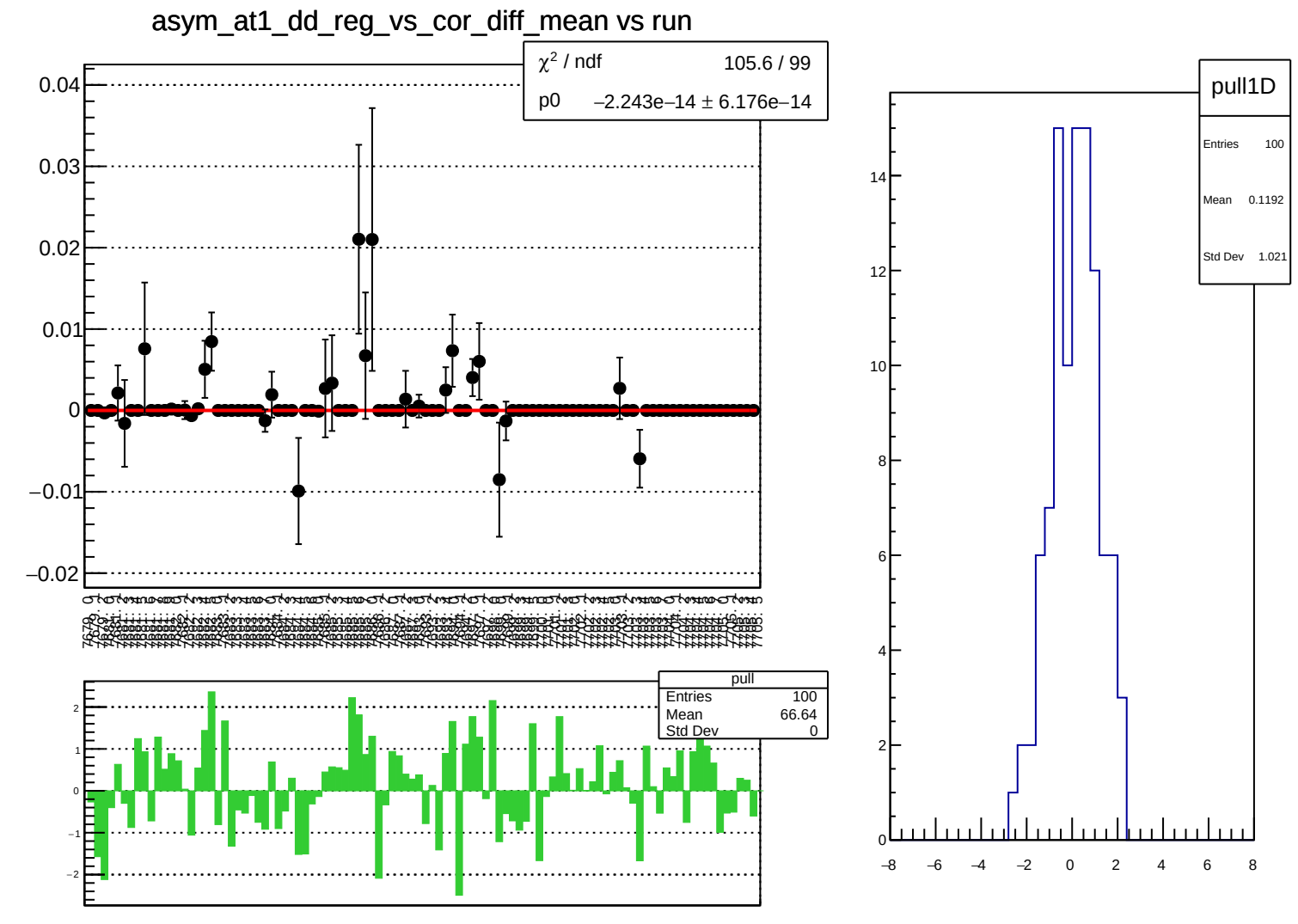

pull1D
Entries 100
Mean −0.01888
Std Dev 0.9769
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

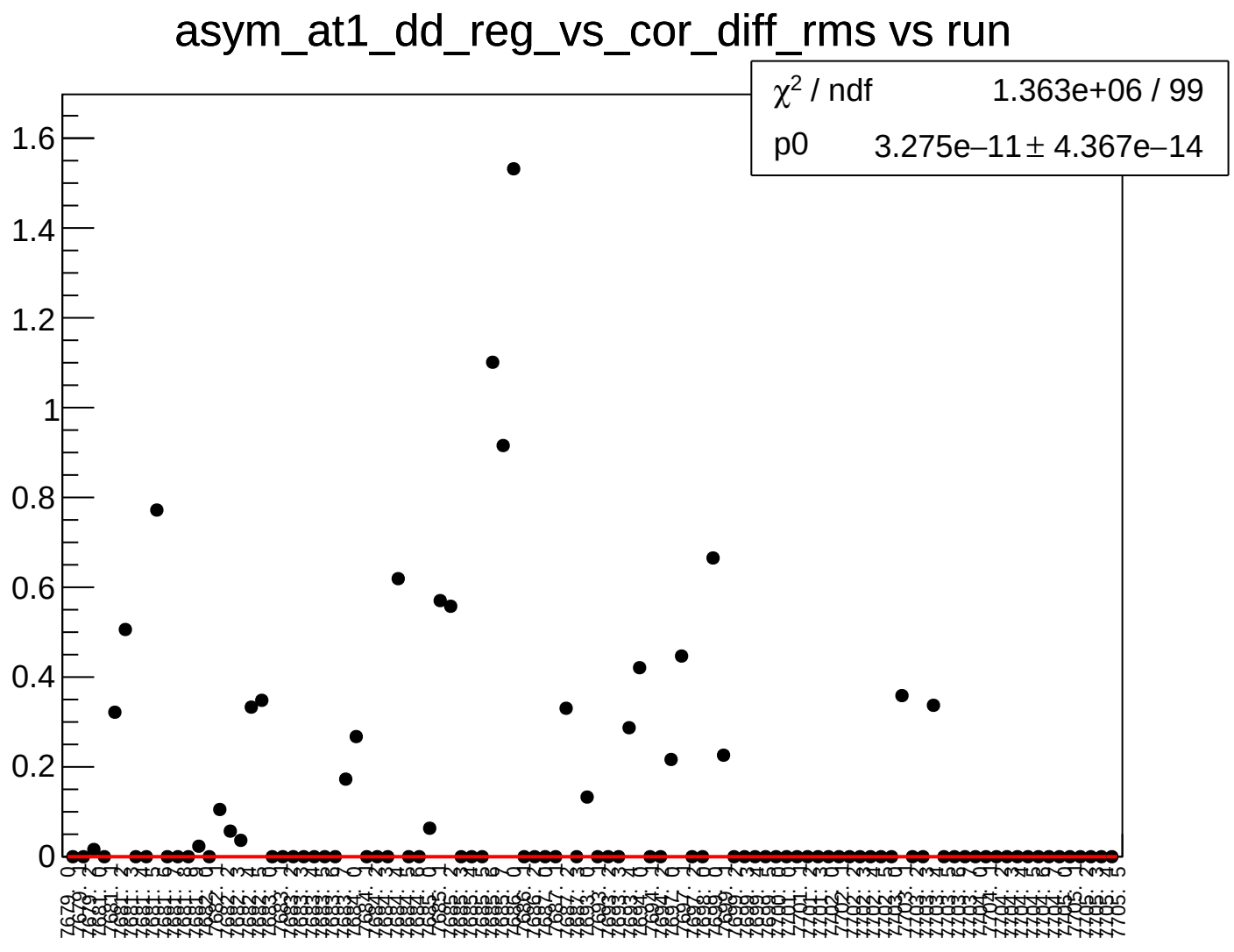

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.166e+05 / 99
p0 1154 ± 0.8825
2000
1800
1600
1400
1200
1000
800

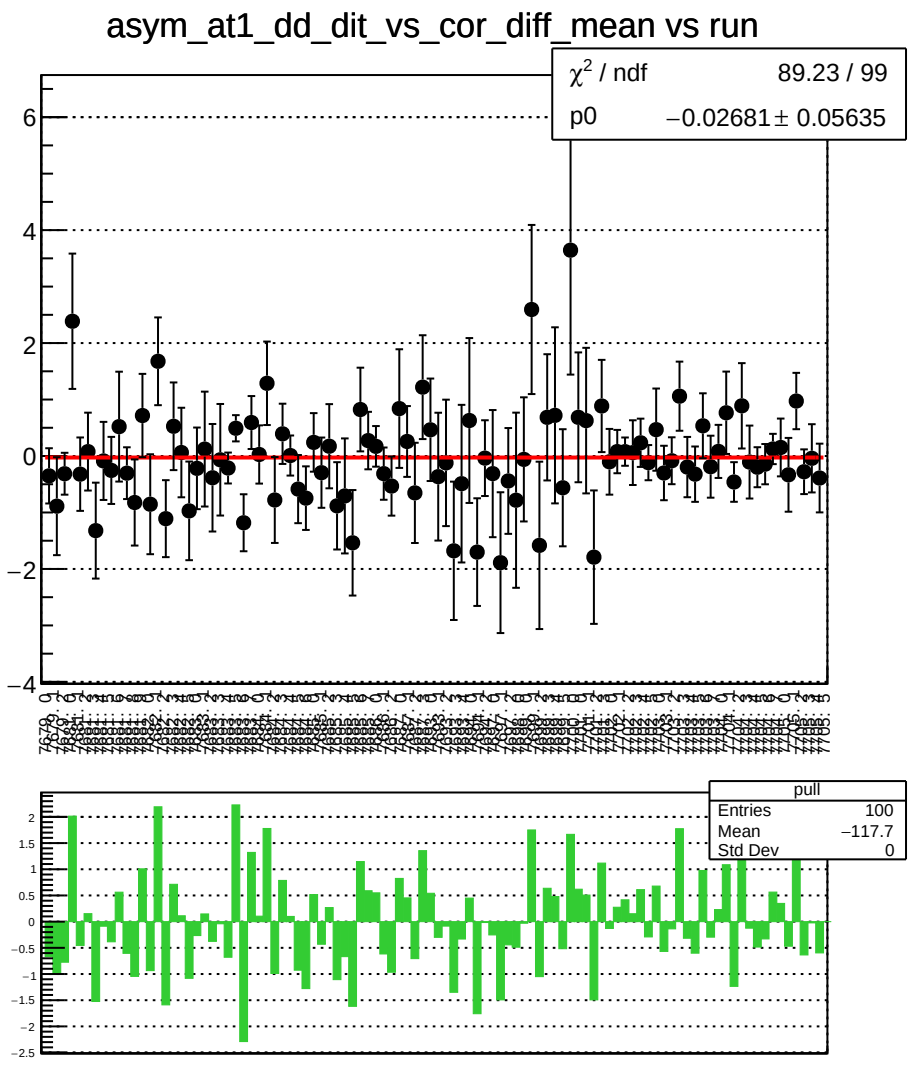

asym_at1_dd_mean vs run
×10^3
χ^2 / ndf 122.1 / 99
p0 532.2 ± 2390
100
50
0
−50
−100
pull
Entries 100
Mean −2480
Std Dev 0
3
2
1
0
−1
−2
−3

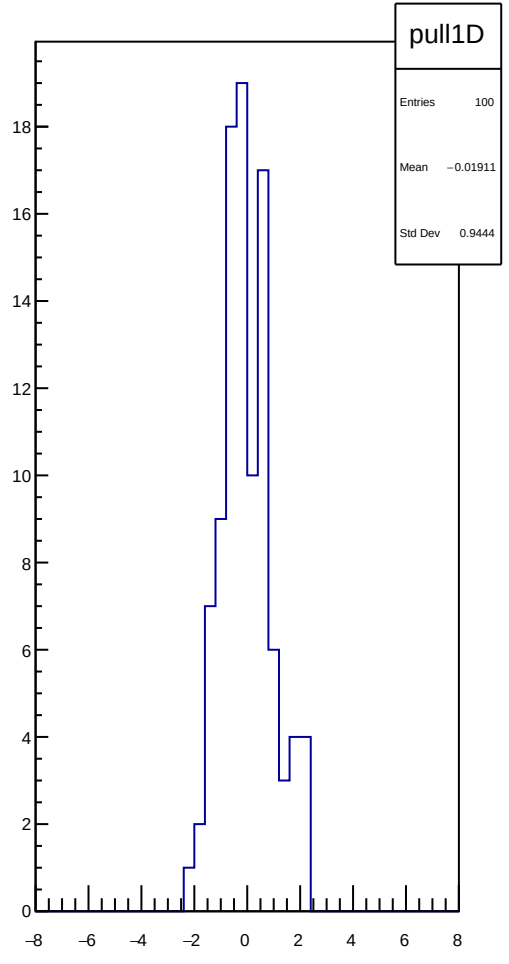

pull1D
Entries 100
Mean 0.0002227
Std Dev 1.105
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

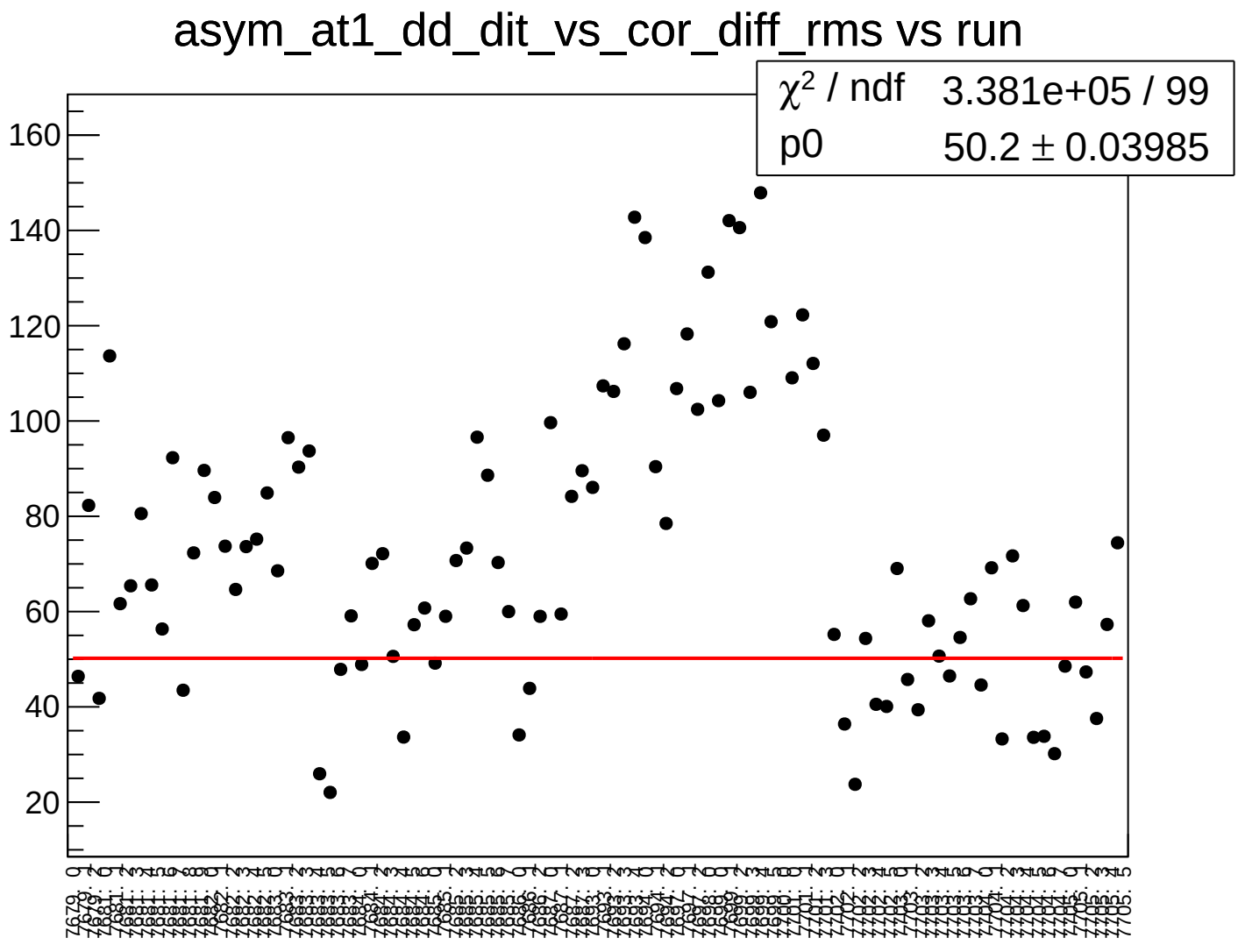

asym_at1_dd_rms vs run
χ^2 / ndf 2.769e+04 / 99
p0 2328 ± 1.69
2800
2700
2600
2500
2400
2300
2200
2100
2000
1900

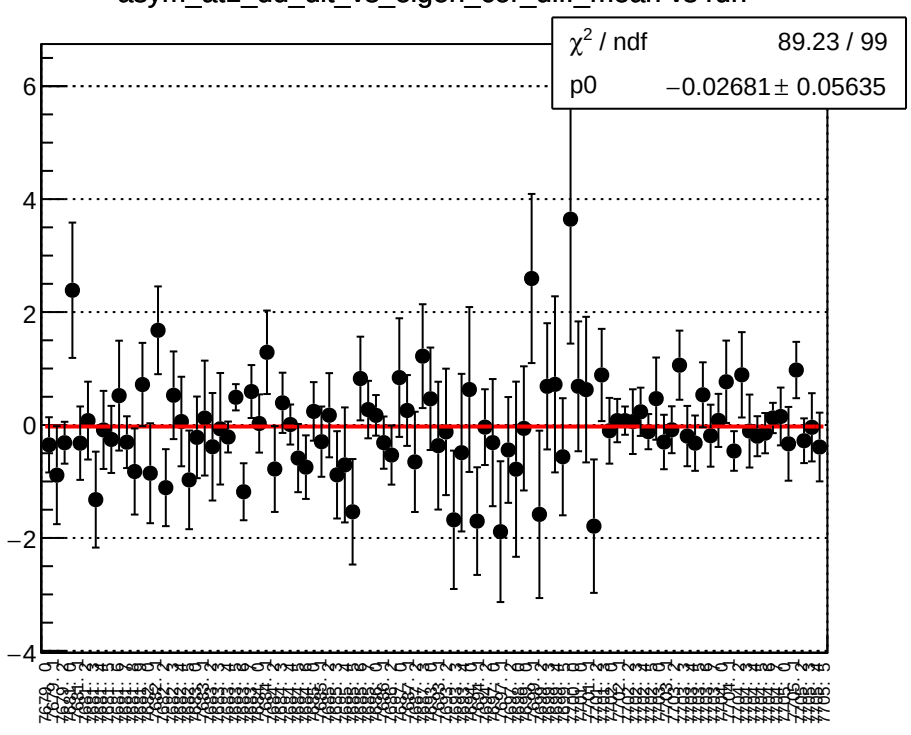

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 105.6 / 99
p0 −2.243e−14 ± 6.176e−14
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 100
Mean 66.64
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.1192
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

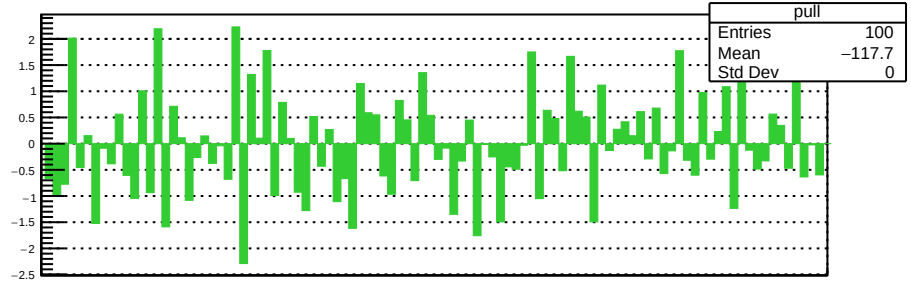

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.363e+06 / 99
p0 3.275e−11 ± 4.367e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

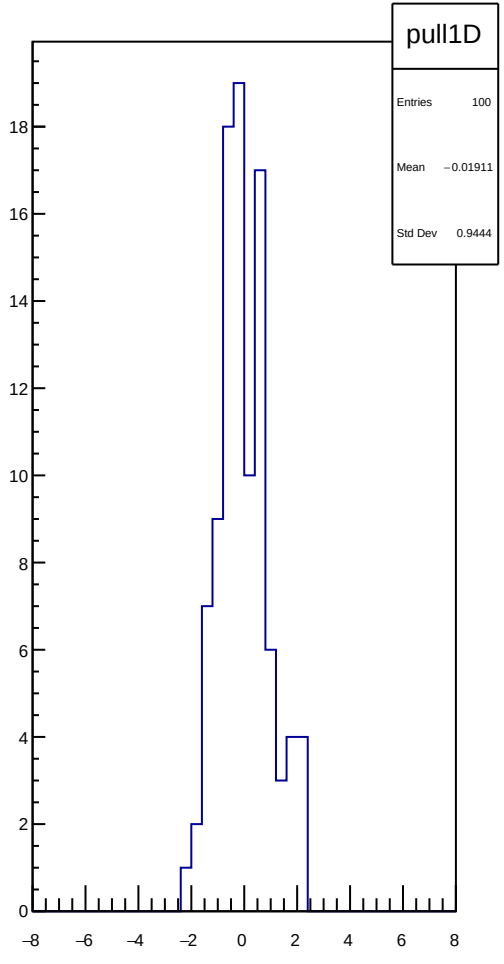

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.23 / 99
p0 −0.02681 ± 0.05635
pull
Entries 100
Mean −117.7
Std Dev 0

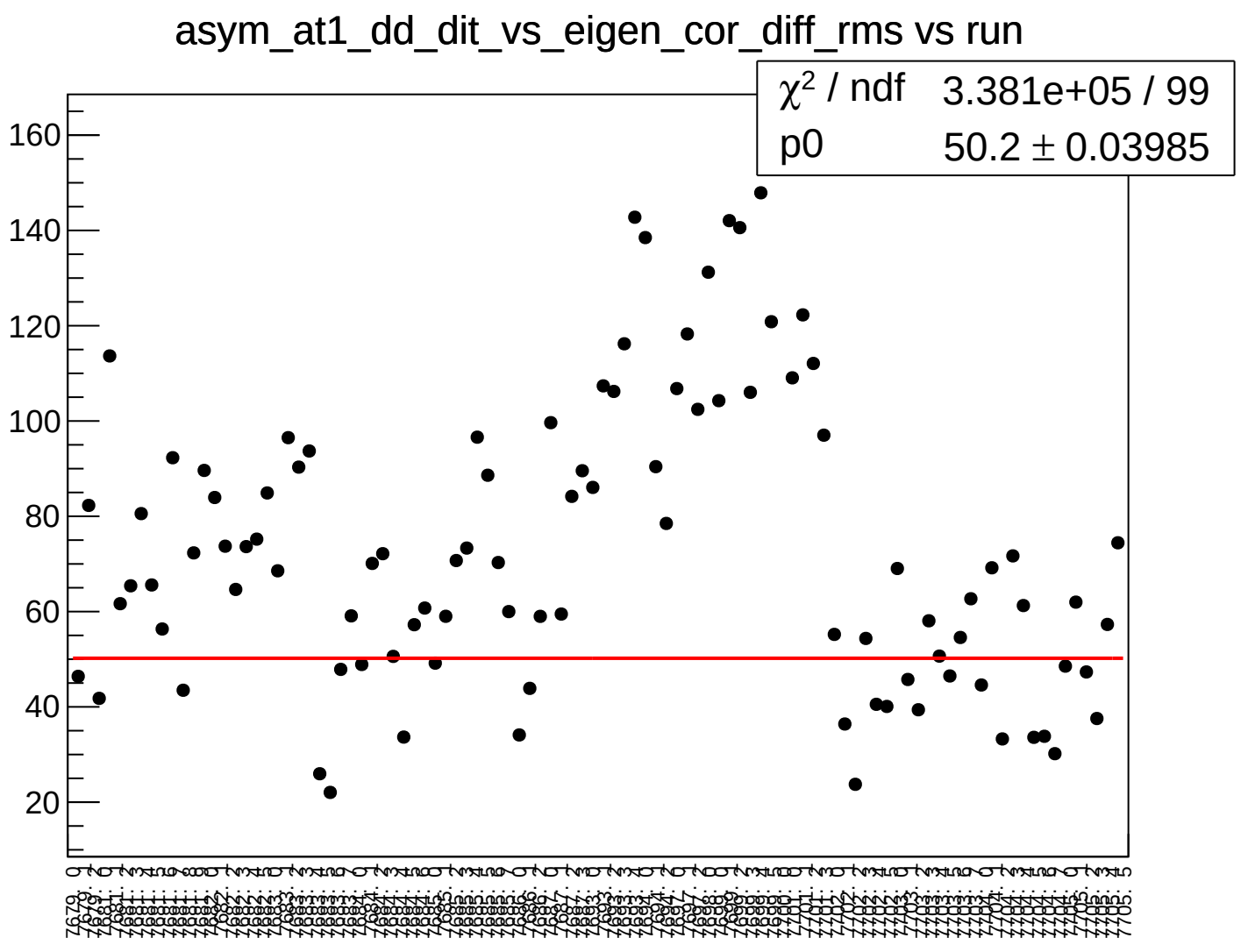

pull1D
Entries 100
Mean −0.01911
Std Dev 0.9444

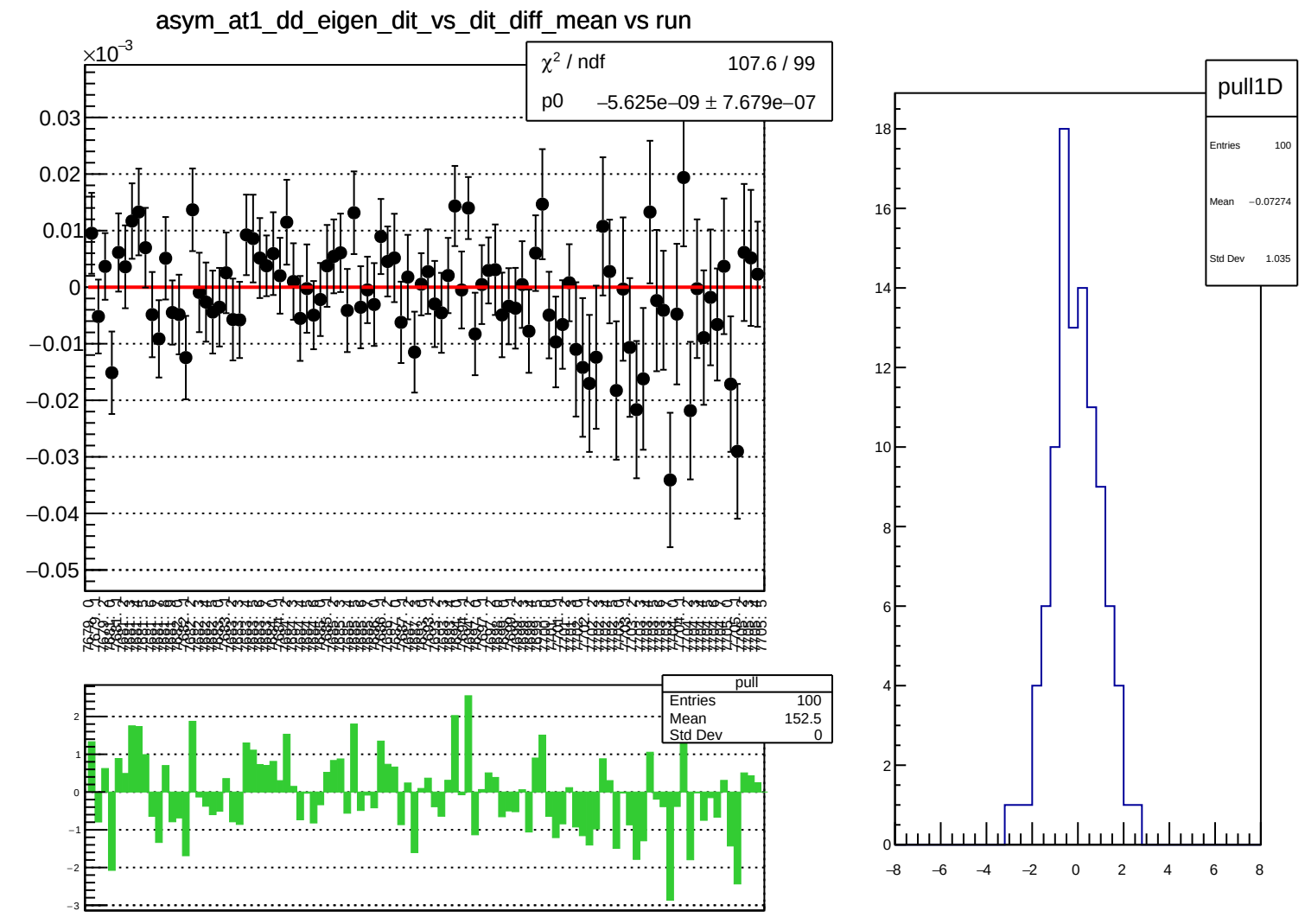

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.381e+05 / 99
p0 50.2 ± 0.03985
160
140
120
100
80
60
40
20

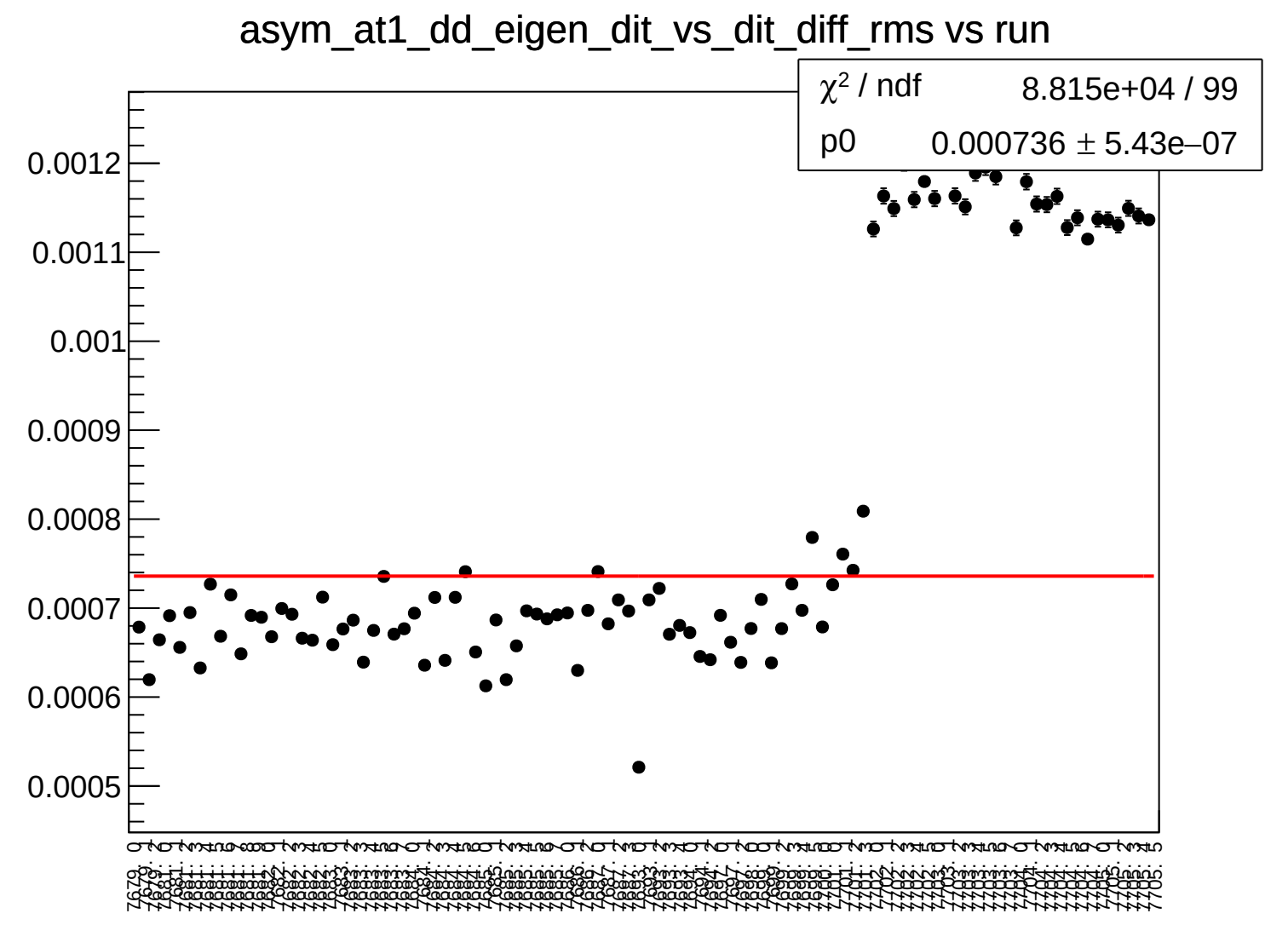

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.23 / 99
p0 −0.02681 ± 0.05635

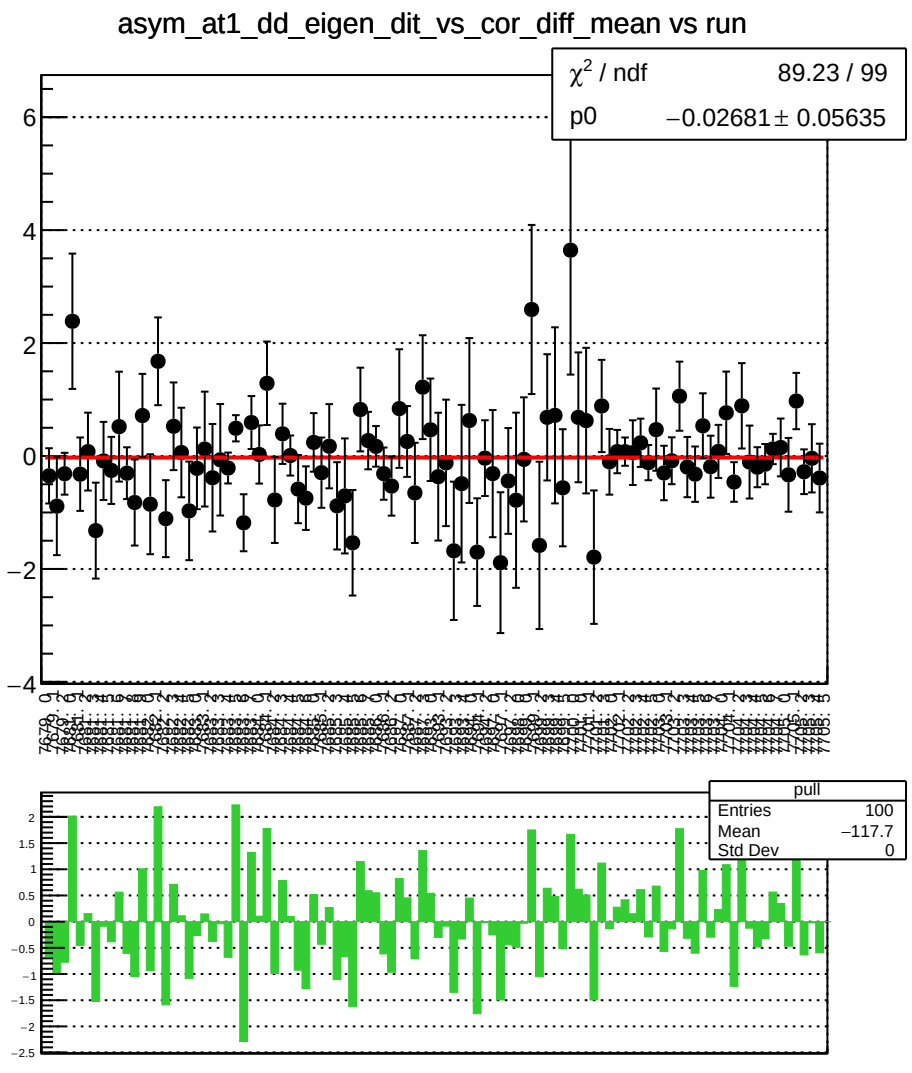

pull
Entries 100
Mean −117.7
Std Dev 0

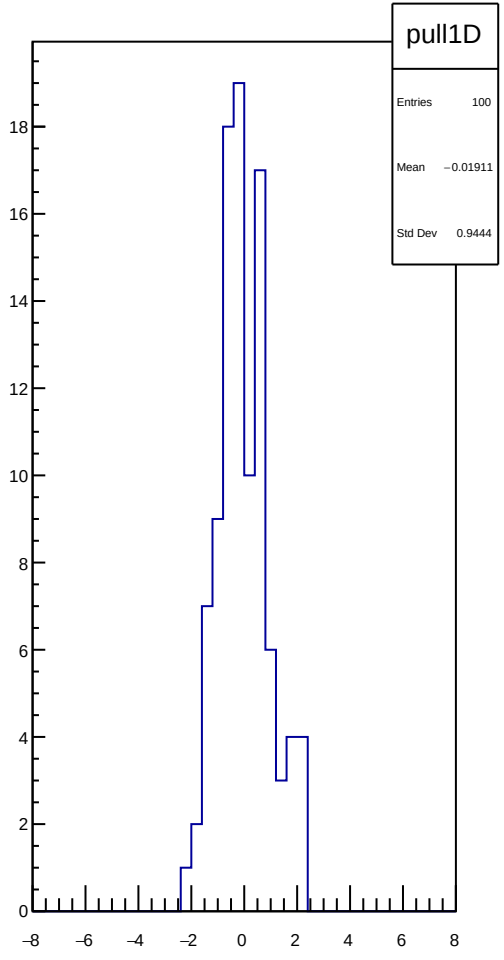

pull1D
Entries 100
Mean −0.01911
Std Dev 0.9444

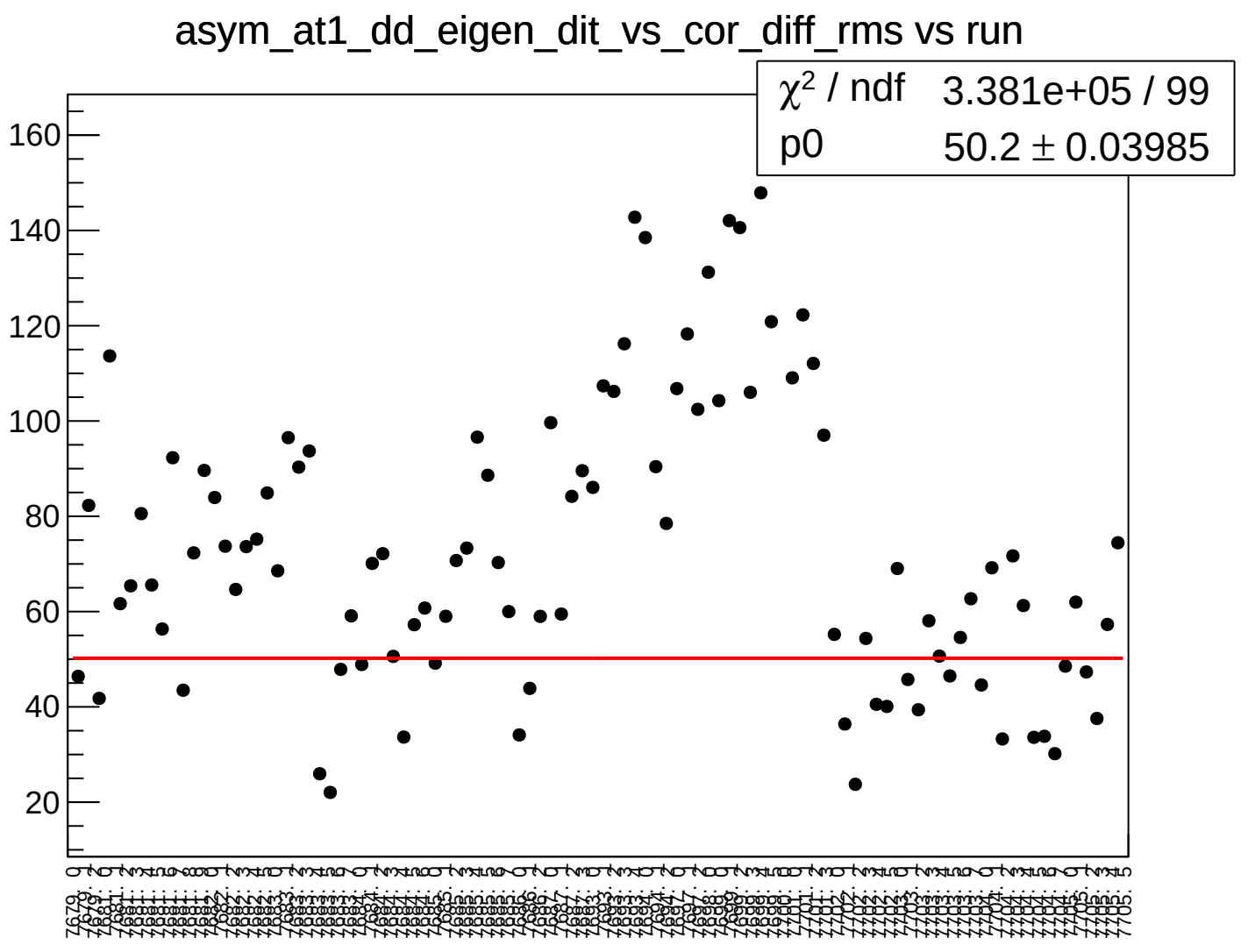

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.381e+05 / 99
p0 50.2 ± 0.03985
160
140
120
100
80
60
40
20

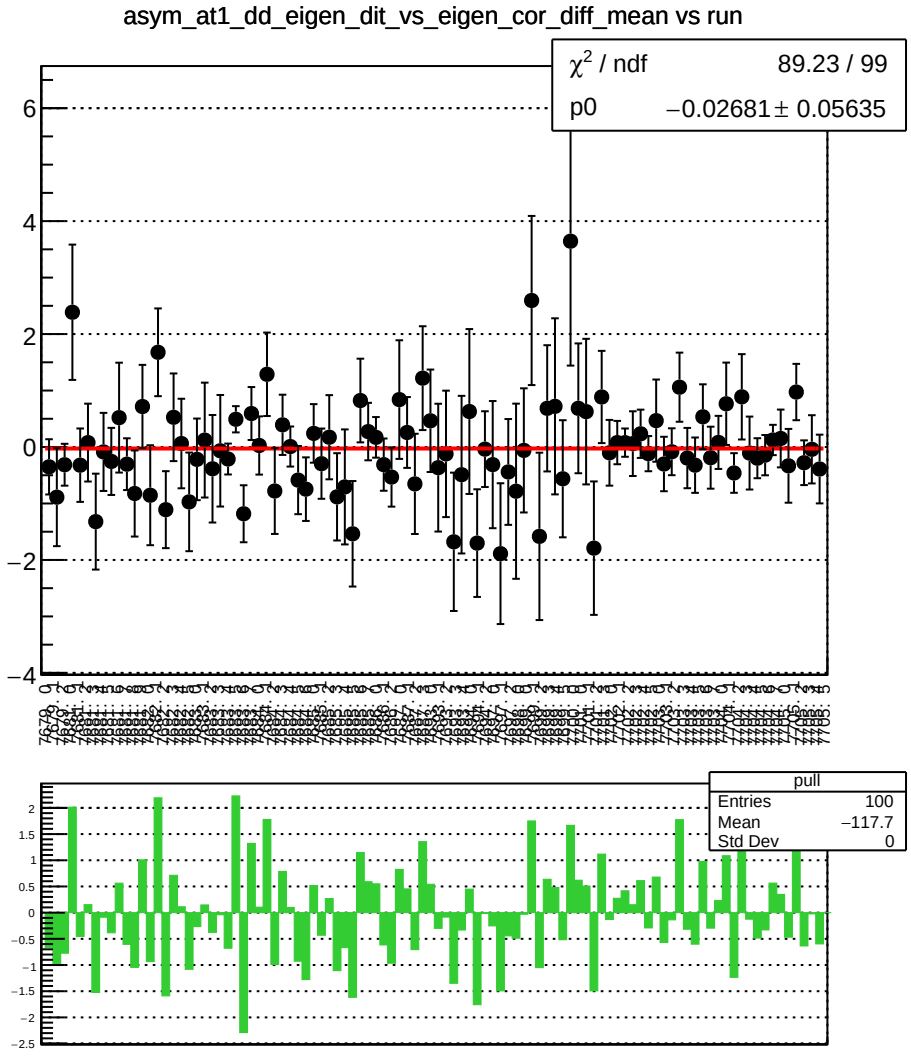

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 107.6 / 99
p0 −5.625e−09 ± 7.679e−07
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
−0.05
pull
Entries 100
Mean 152.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean −0.07274
Std Dev 1.035
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

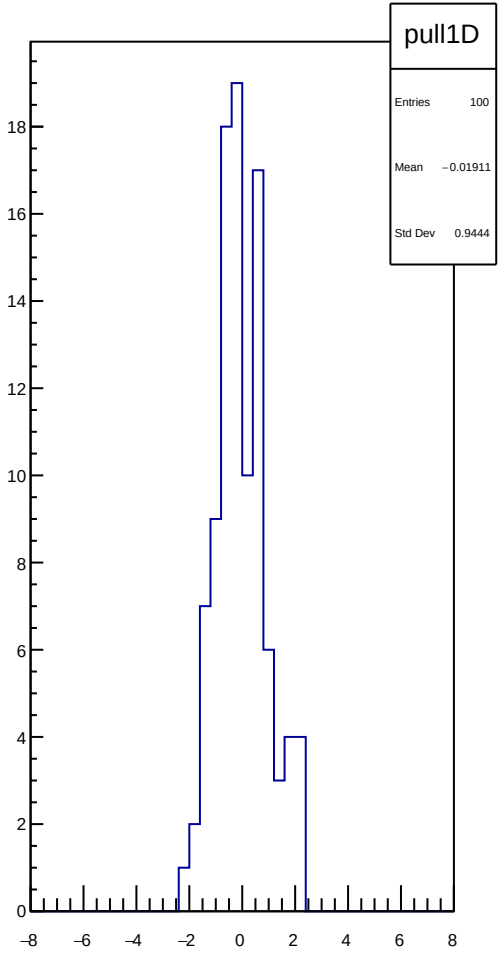

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.815e+04 / 99
p0 0.000736 ± 5.43e−07
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005

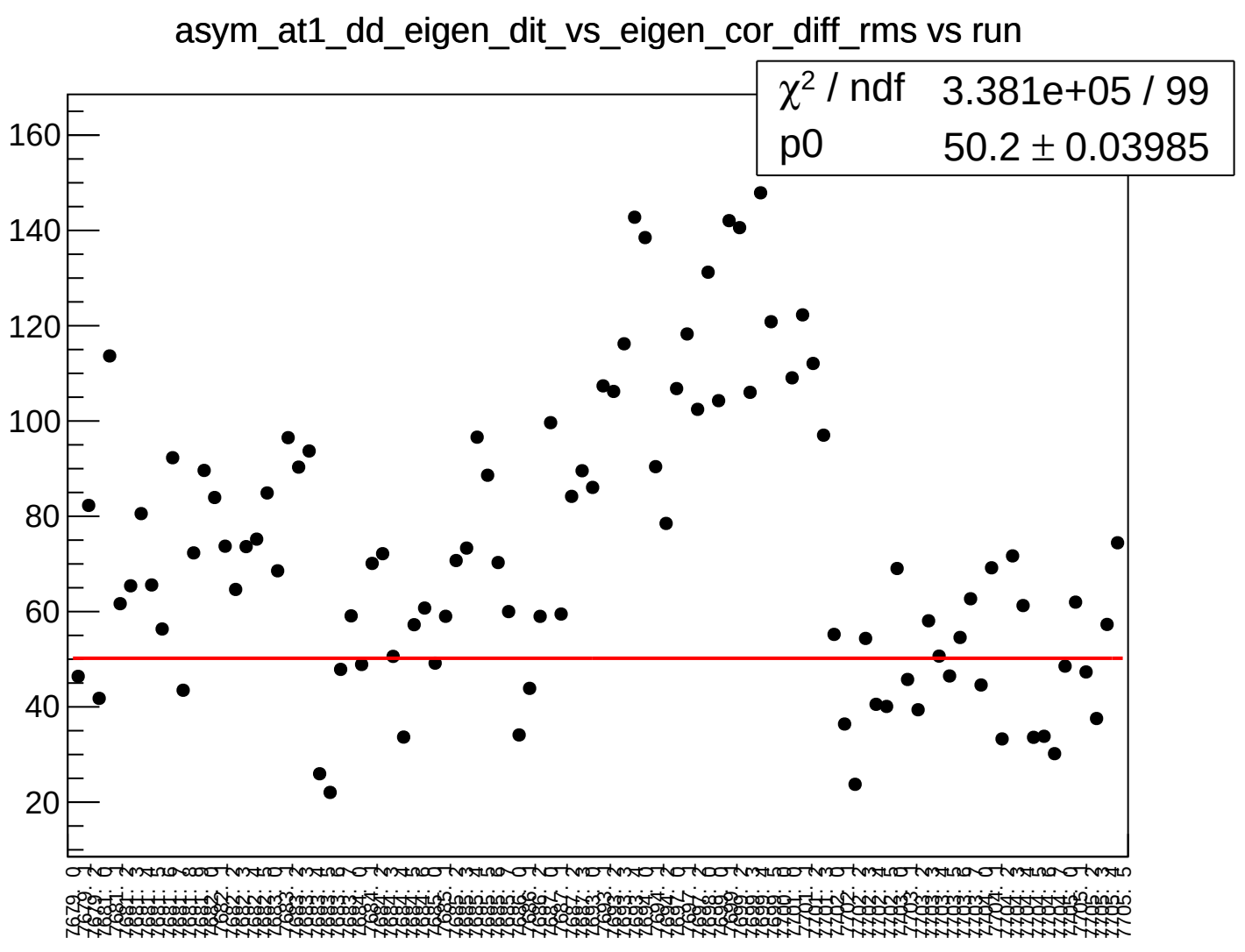

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.23 / 99
p0 −0.02681 ± 0.05635
pull
Entries 100
Mean −117.7
Std Dev 0

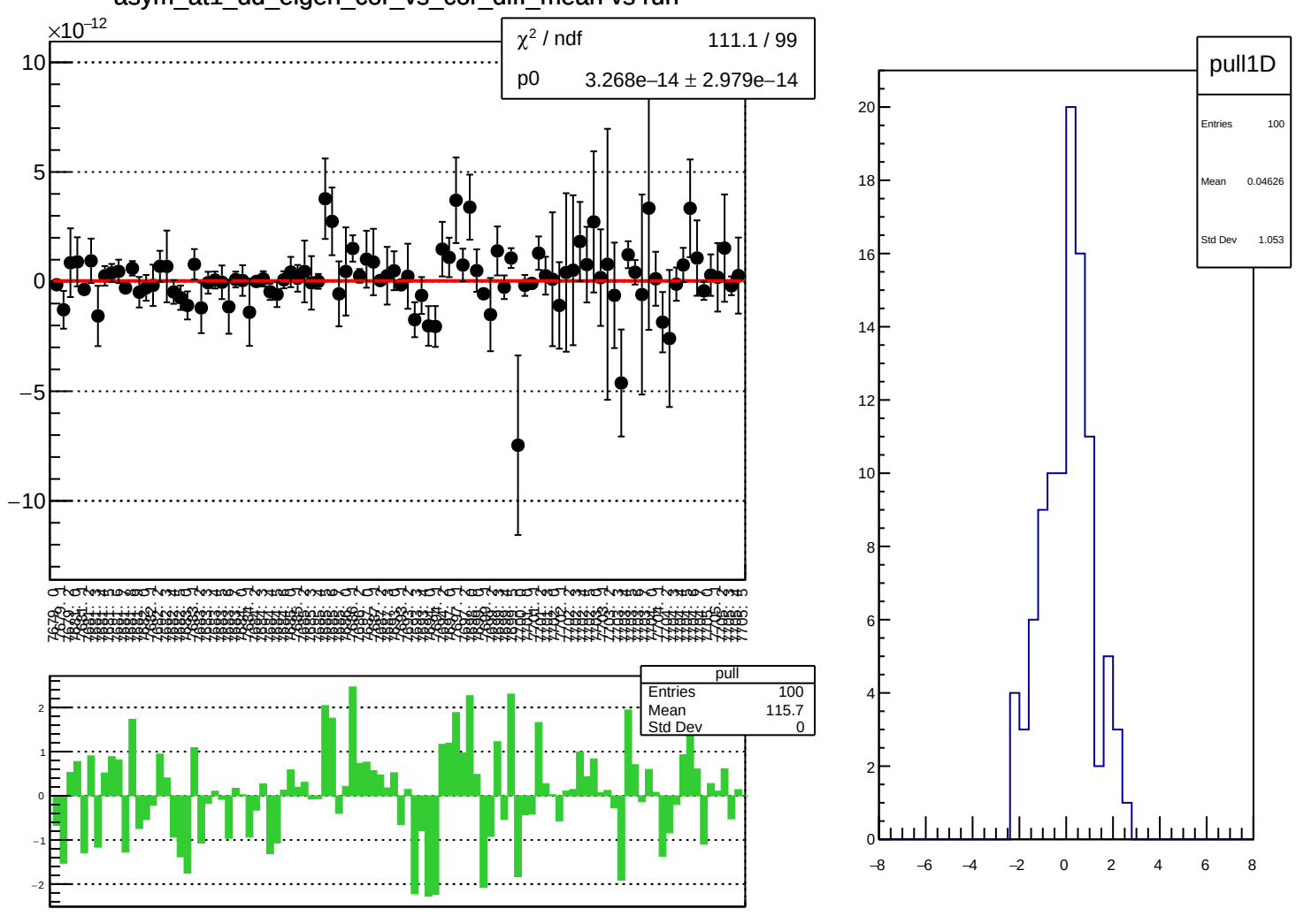

pull1D
Entries 100
Mean −0.01911
Std Dev 0.9444

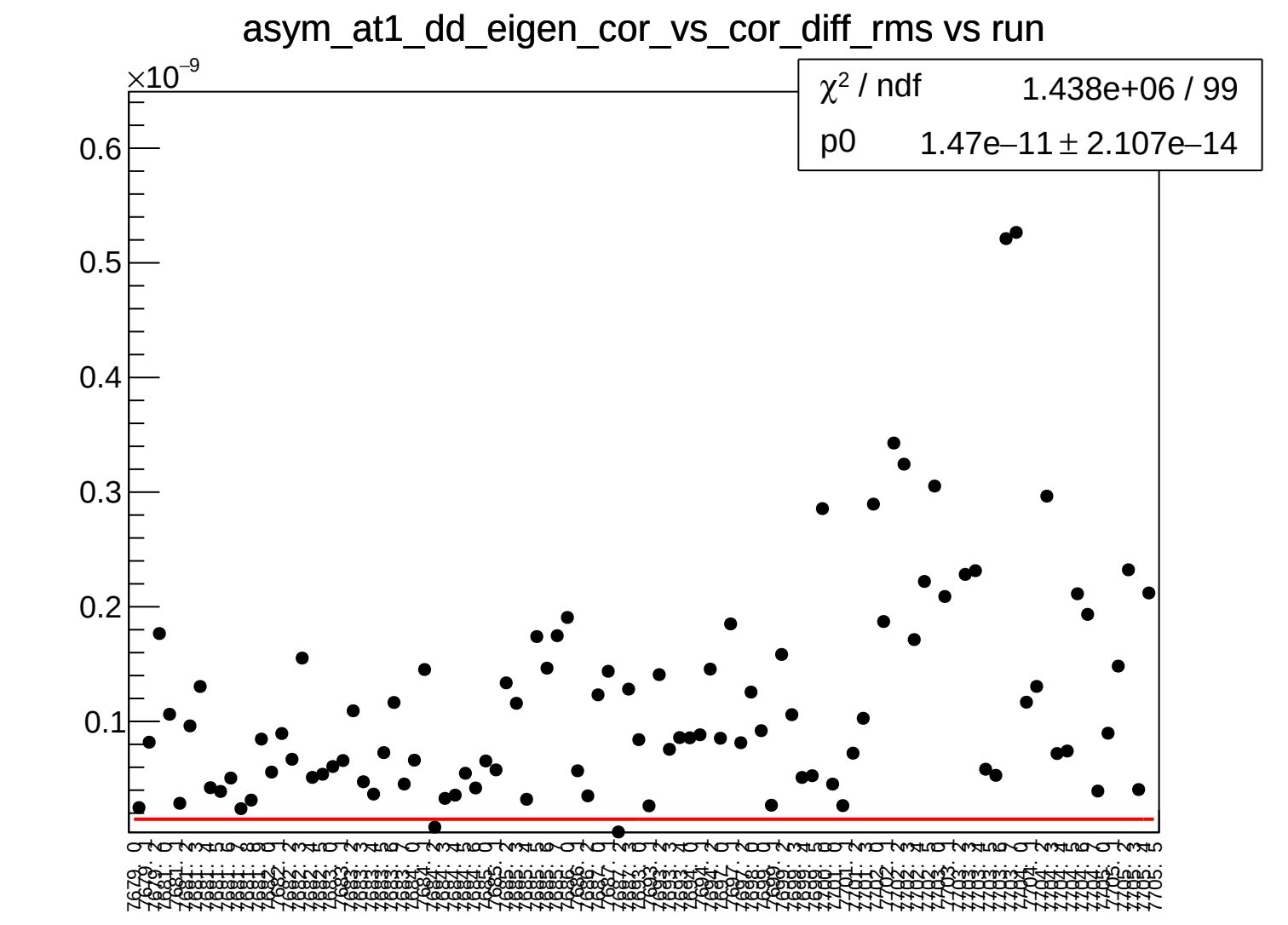

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.381e+05 / 99
p0 50.2 ± 0.03985
160
140
120
100
80
60
40
20

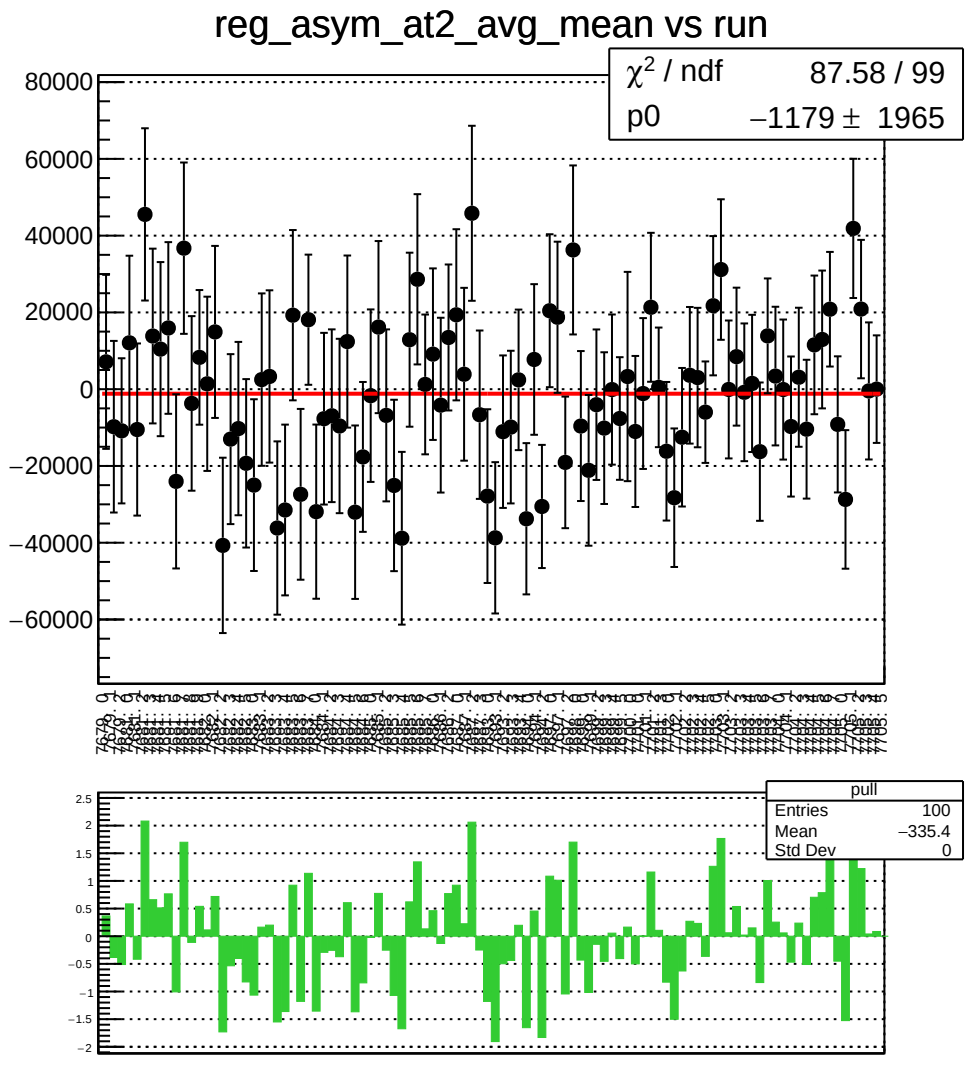

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.23 / 99
p0 −0.02681 ± 0.05635
pull
Entries 100
Mean −117.7
Std Dev 0

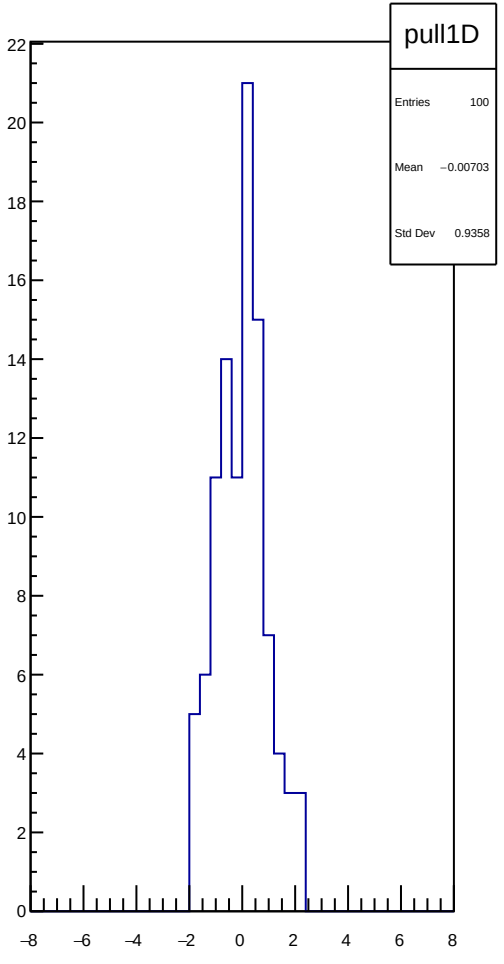

pull1D
Entries 100
Mean −0.01911
Std Dev 0.9444

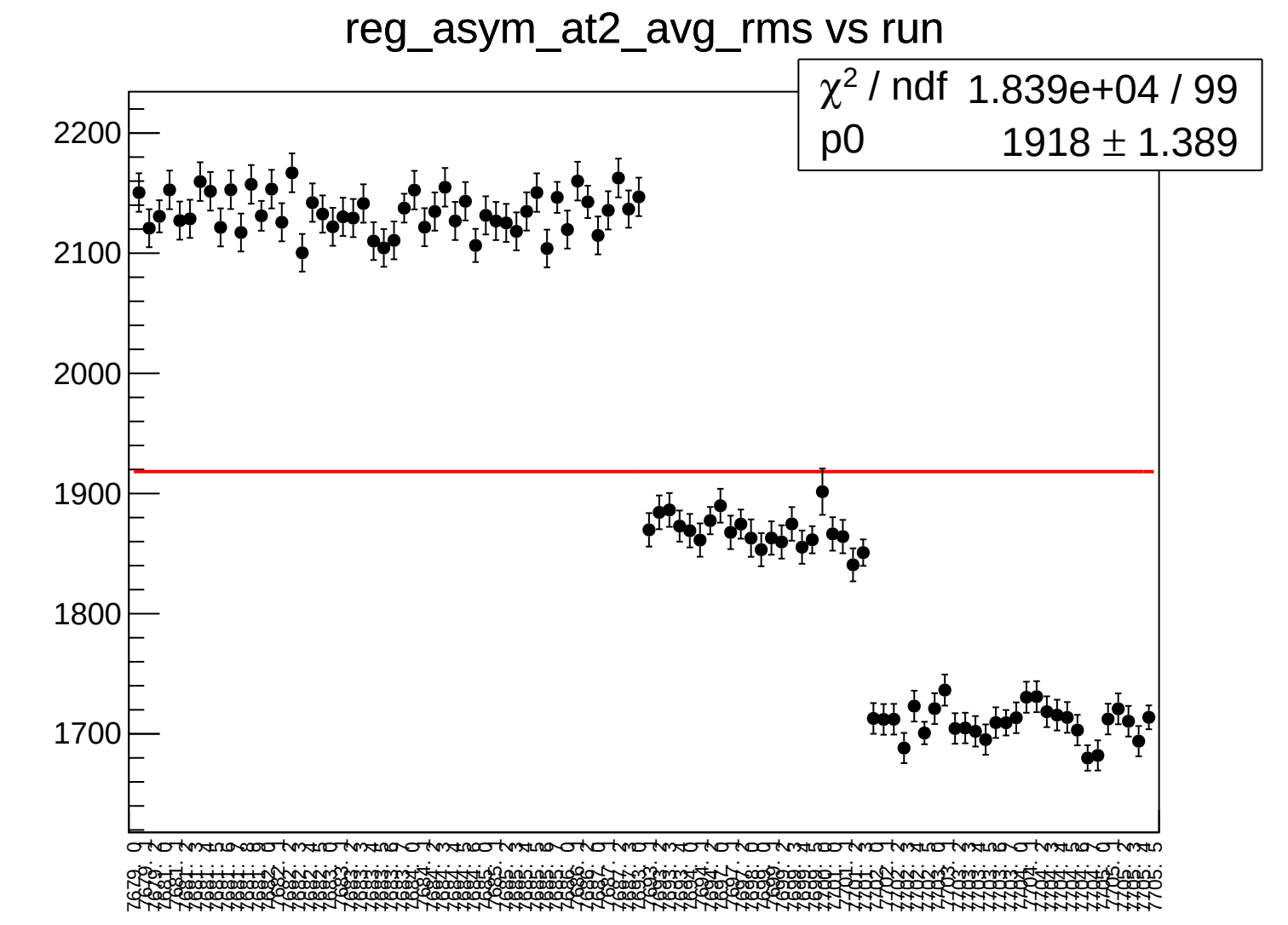

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.381e+05 / 99
p0 50.2 ± 0.03985
160
140
120
100
80
60
40
20

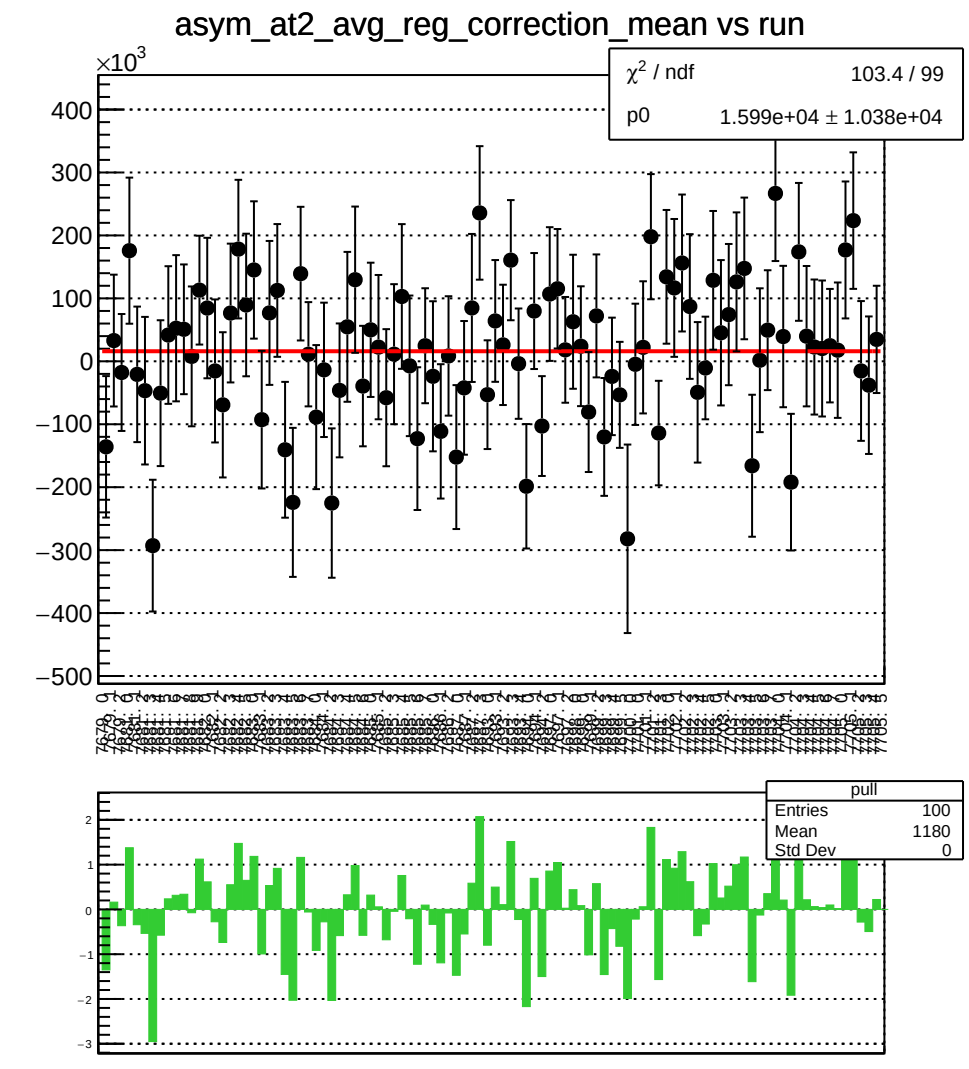

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 111.1 / 99
p0 3.268e−14 ± 2.979e−14
pull
Entries 100
Mean 115.7
Std Dev 0
pull1D
Entries 100
Mean 0.04626
Std Dev 1.053

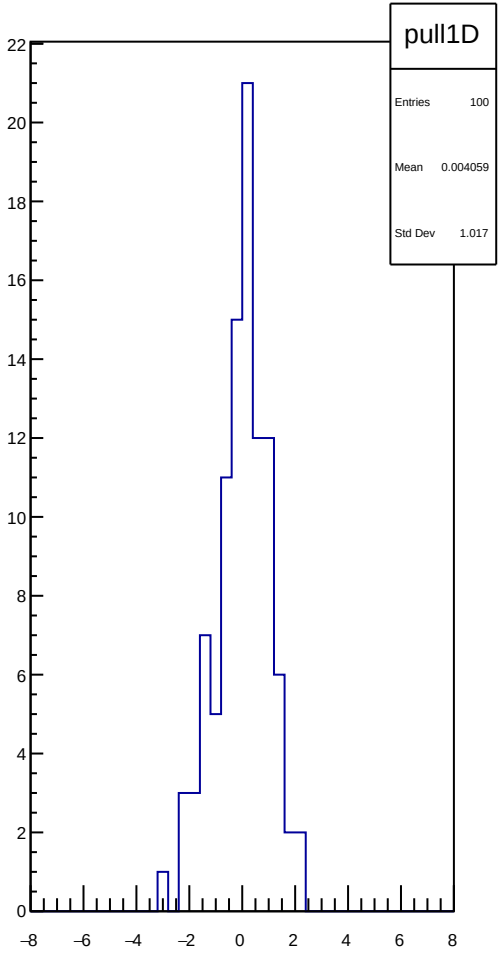

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.438e+06 / 99
p0 1.47e−11 ± 2.107e−14
0.6
0.5
0.4
0.3
0.2
0.1

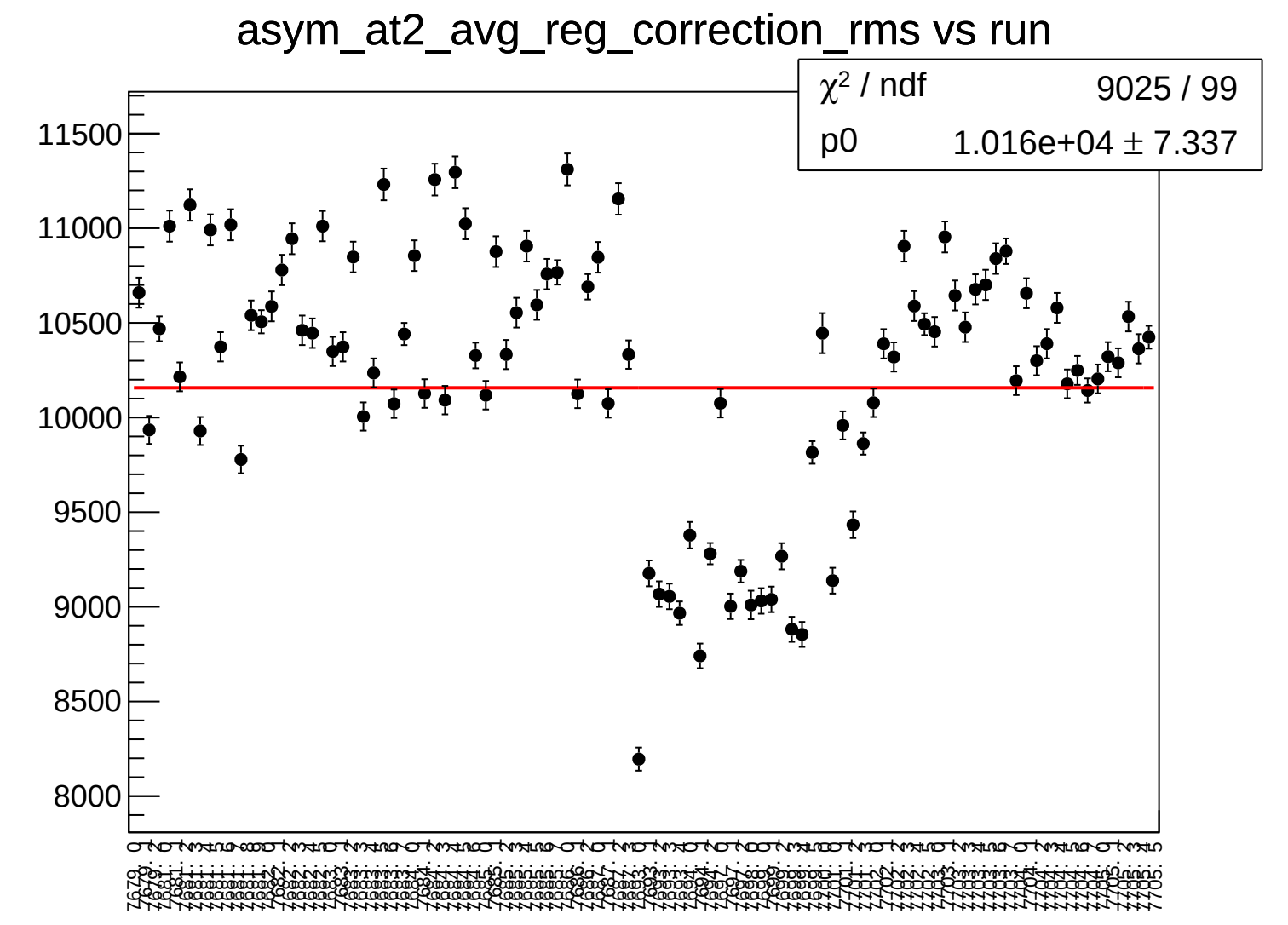

reg_asym_at2_avg_mean vs run
χ² / ndf 87.58 / 99
p0 −1179 ± 1965
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −335.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

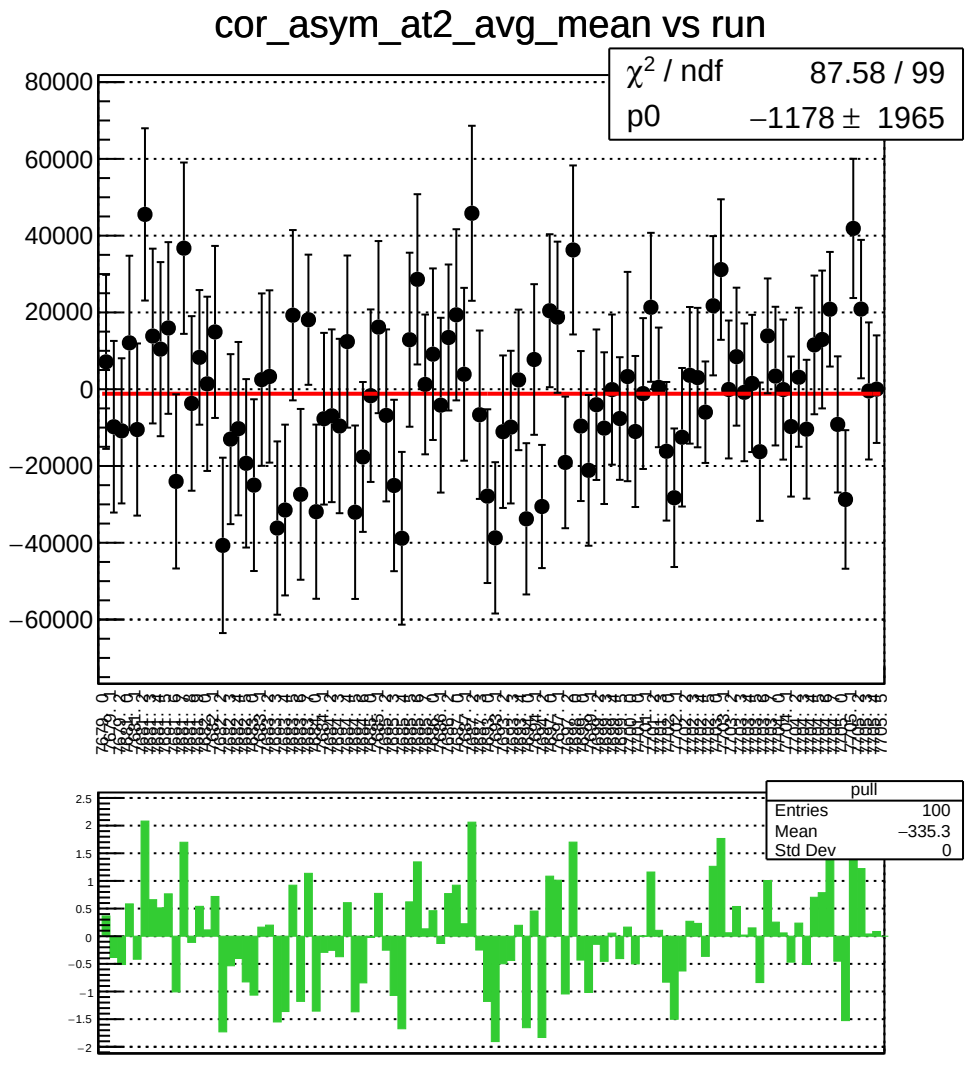

pull1D
Entries 100
Mean −0.00703
Std Dev 0.9358
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

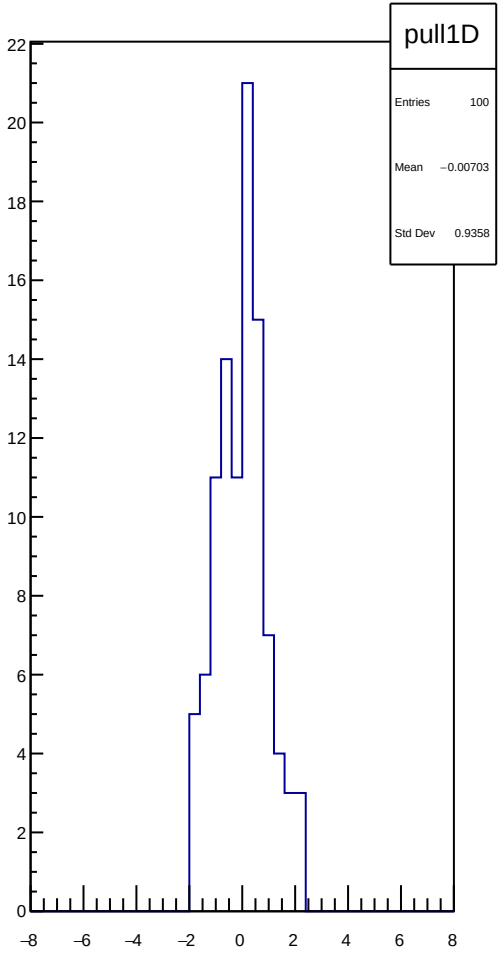

reg_asym_at2_avg_rms vs run
χ² / ndf 1.839e+04 / 99
p0 1918 ± 1.389
2200
2100
2000
1900
1800
1700

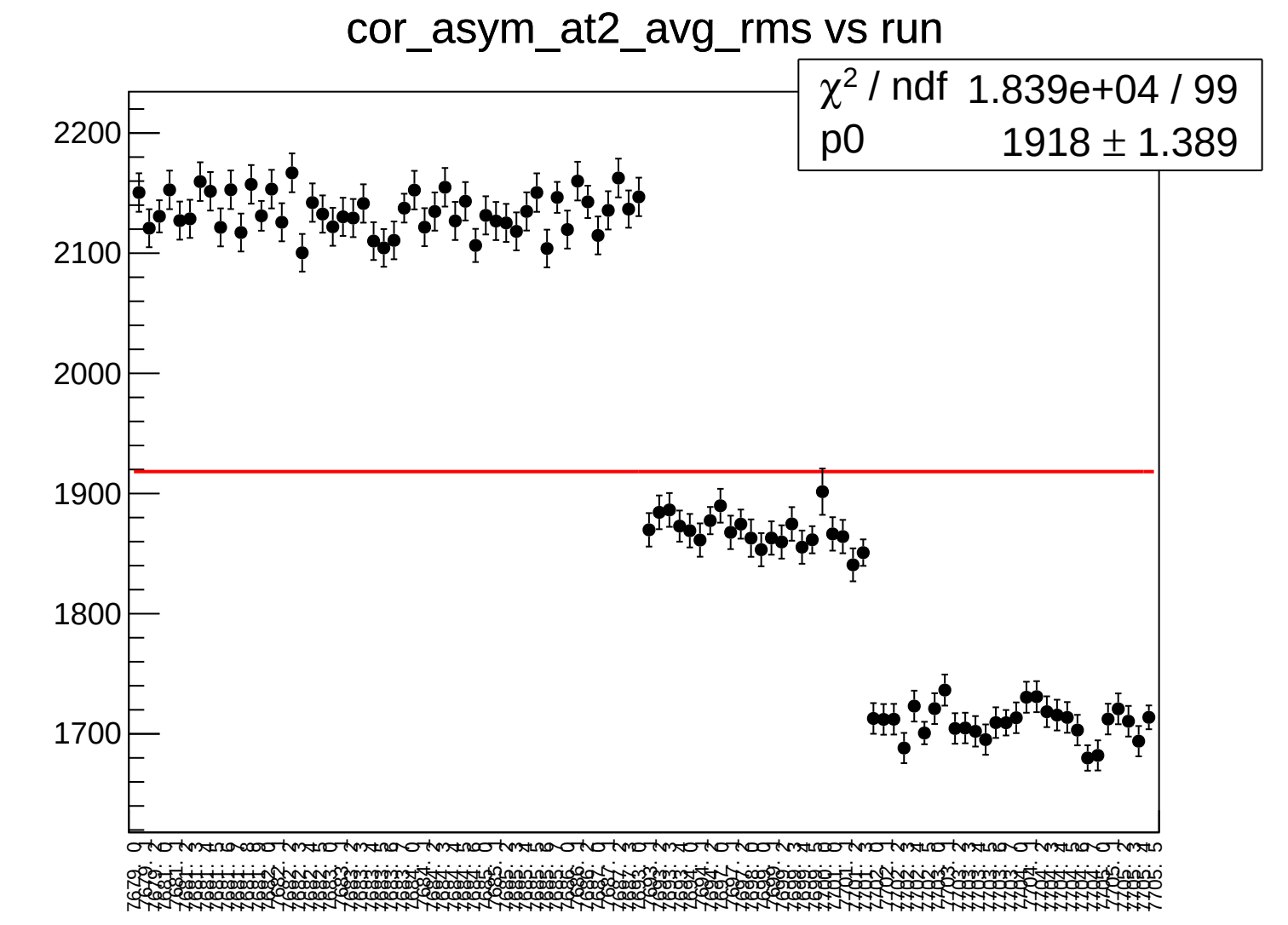

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 103.4 / 99
p0 1.599e+04 ± 1.038e+04
pull
Entries 100
Mean 1180
Std Dev 0

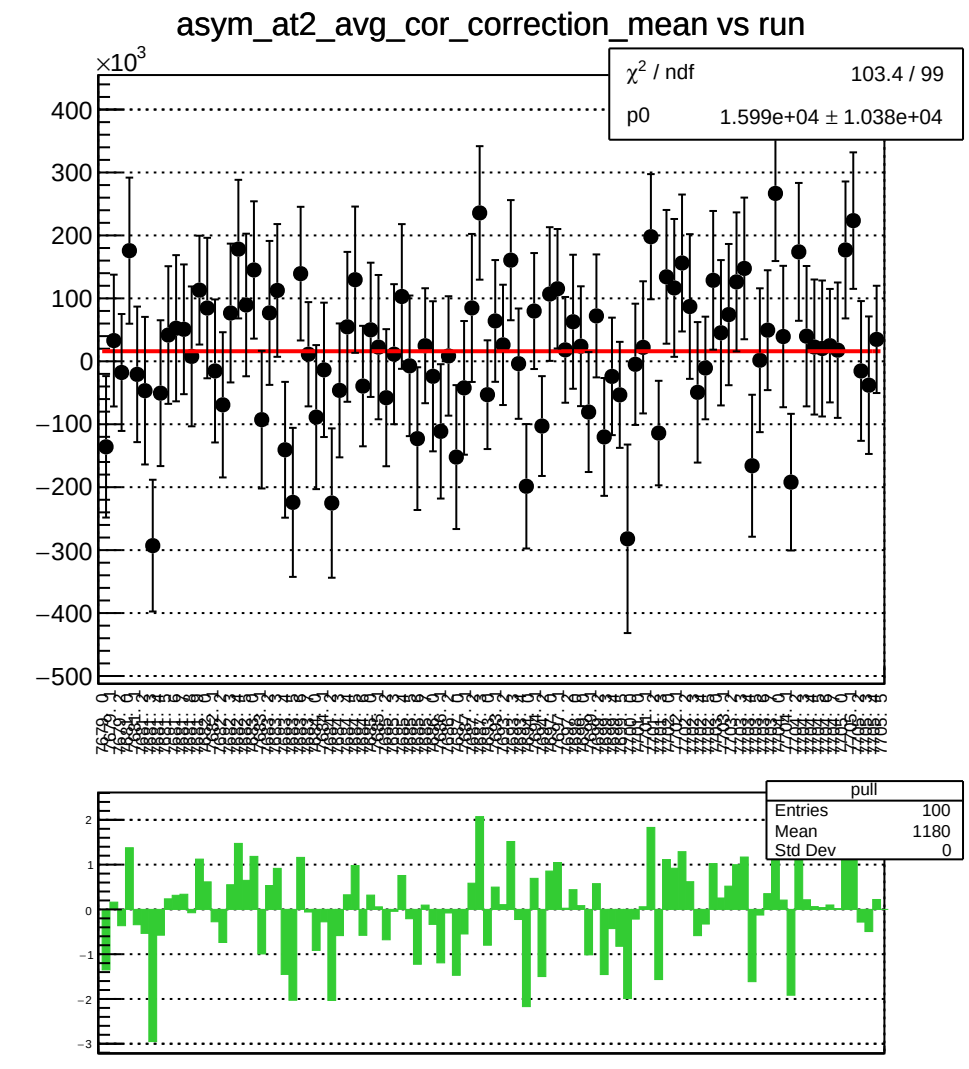

pull1D
Entries 100
Mean 0.004059
Std Dev 1.017

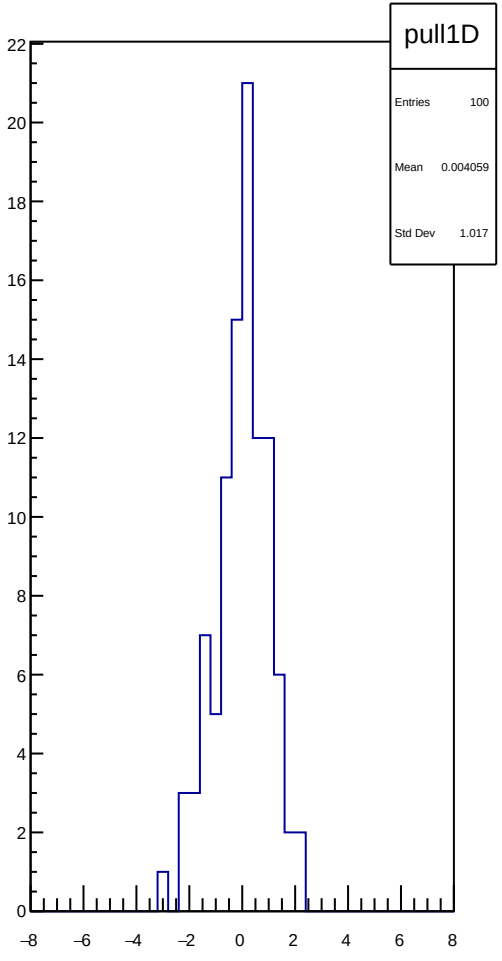

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 9025 / 99
p0 1.016e+04 ± 7.337
11500
11000
10500
10000
9500
9000
8500
8000

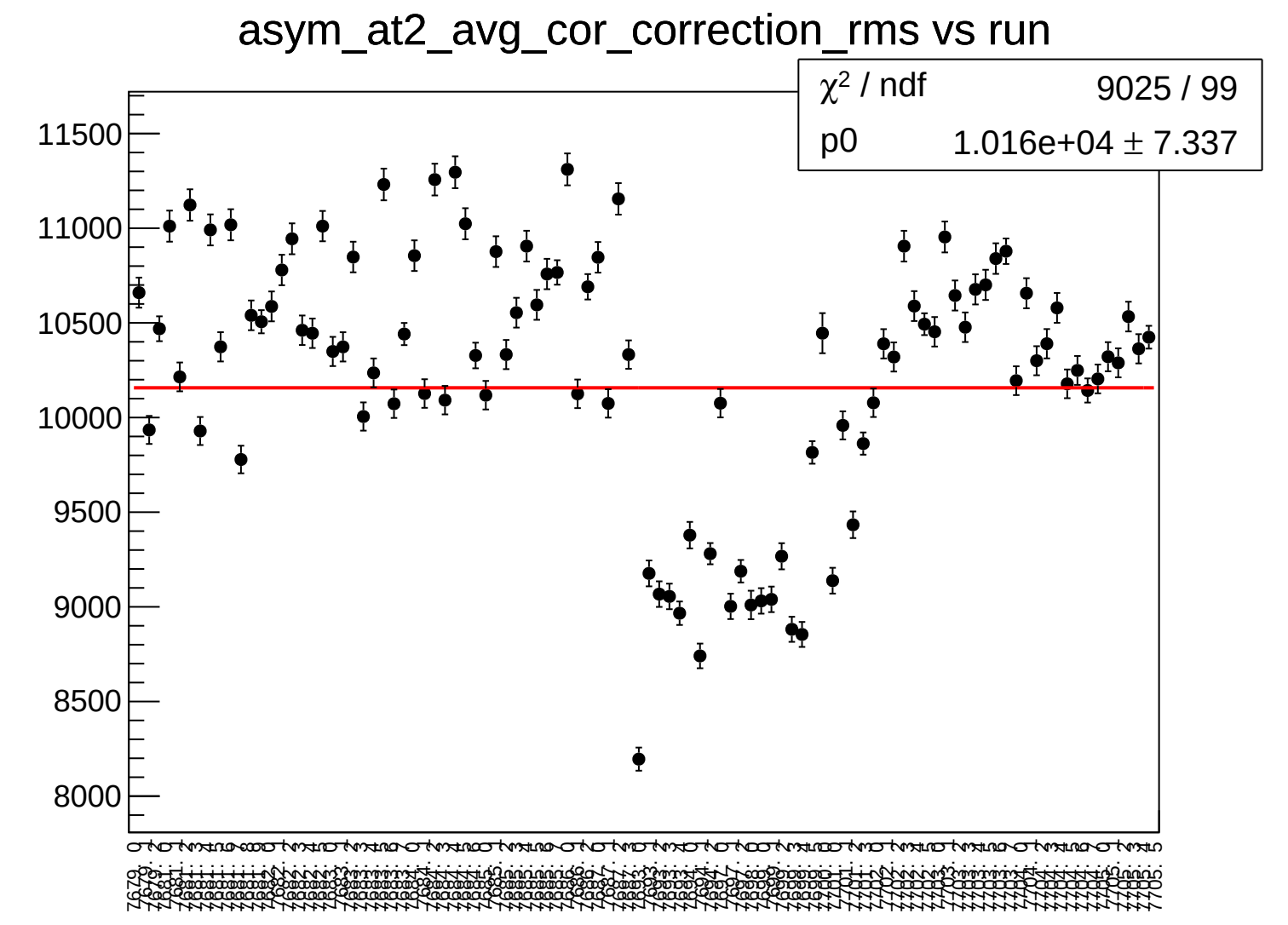

cor_asym_at2_avg_mean vs run
χ² / ndf 87.58 / 99
p0 −1178 ± 1965
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −335.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

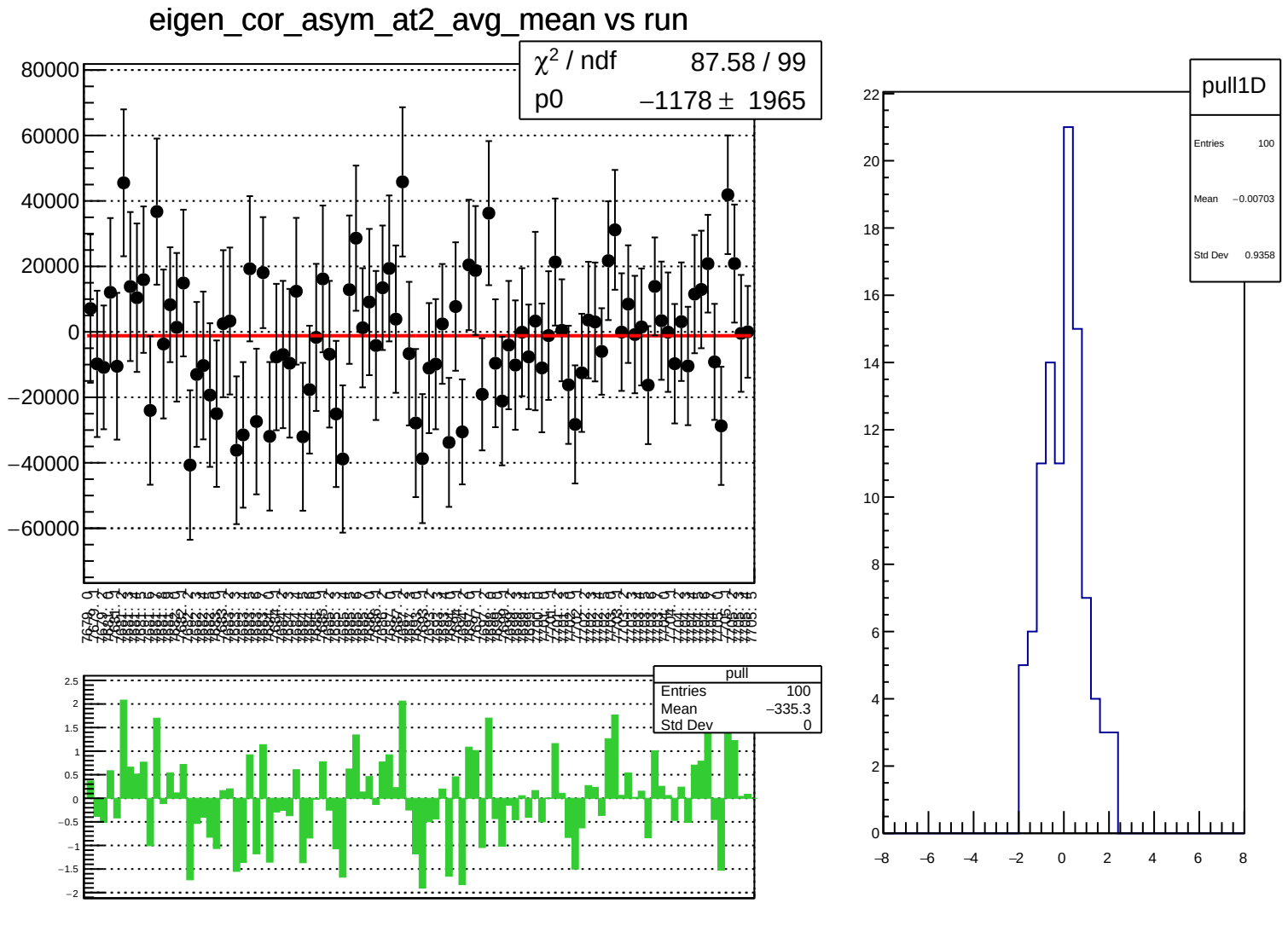

pull1D
Entries 100
Mean −0.00703
Std Dev 0.9358
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

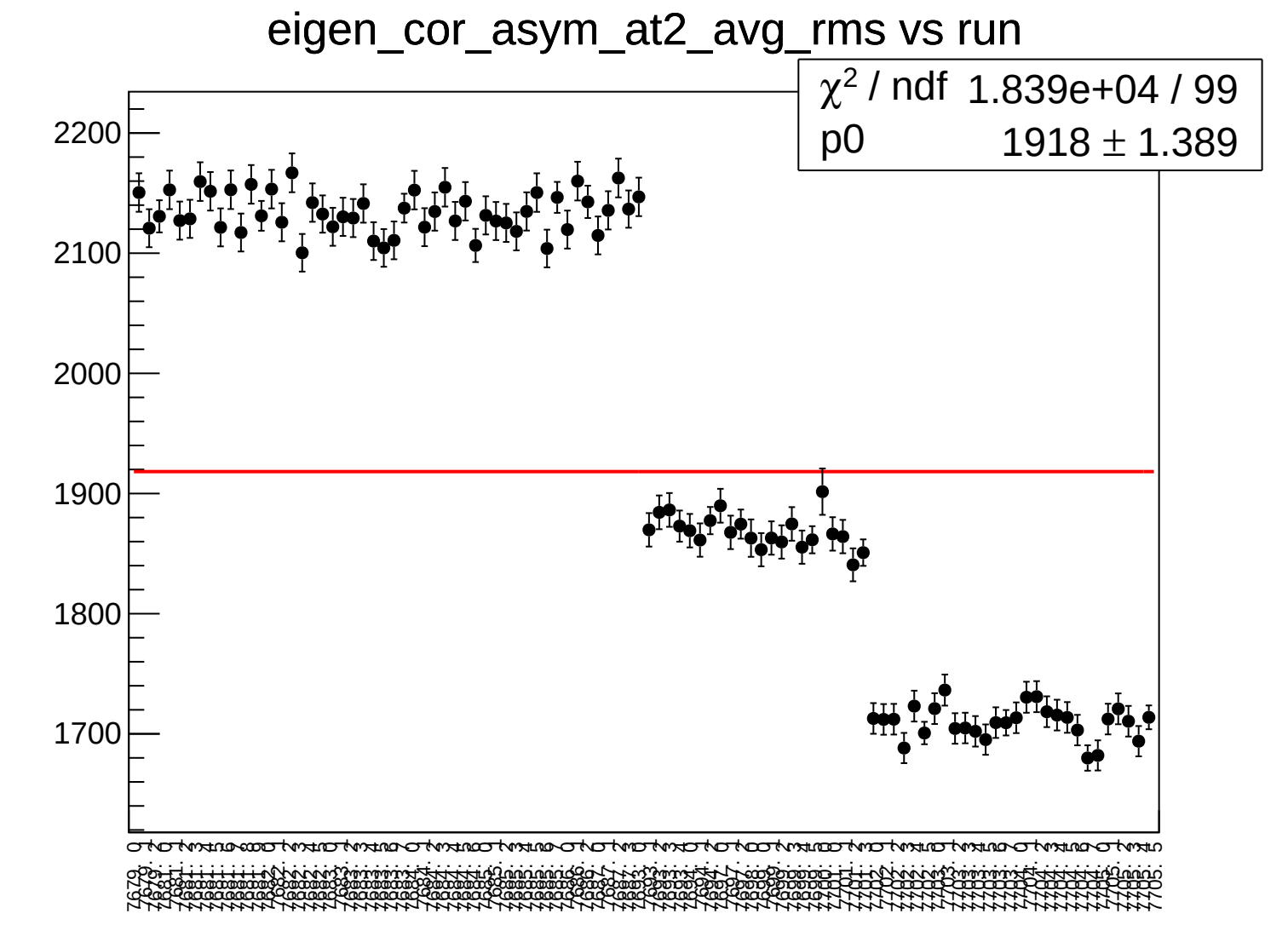

cor_asym_at2_avg_rms vs run
χ^2 / ndf 1.839e+04 / 99
p0 1918 ± 1.389
2200
2100
2000
1900
1800
1700

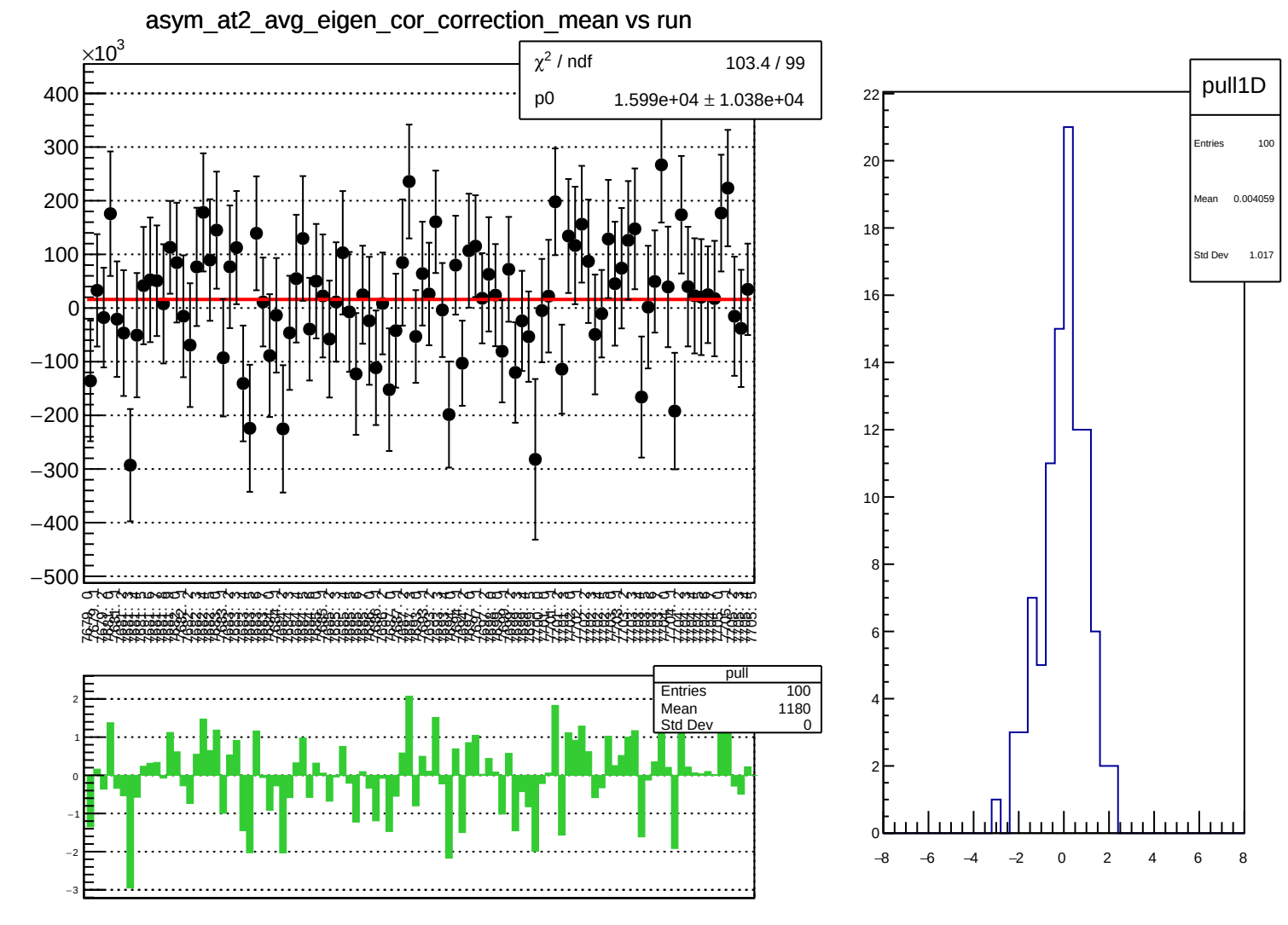

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 103.4 / 99
p0 1.599e+04 ± 1.038e+04
pull
Entries 100
Mean 1180
Std Dev 0

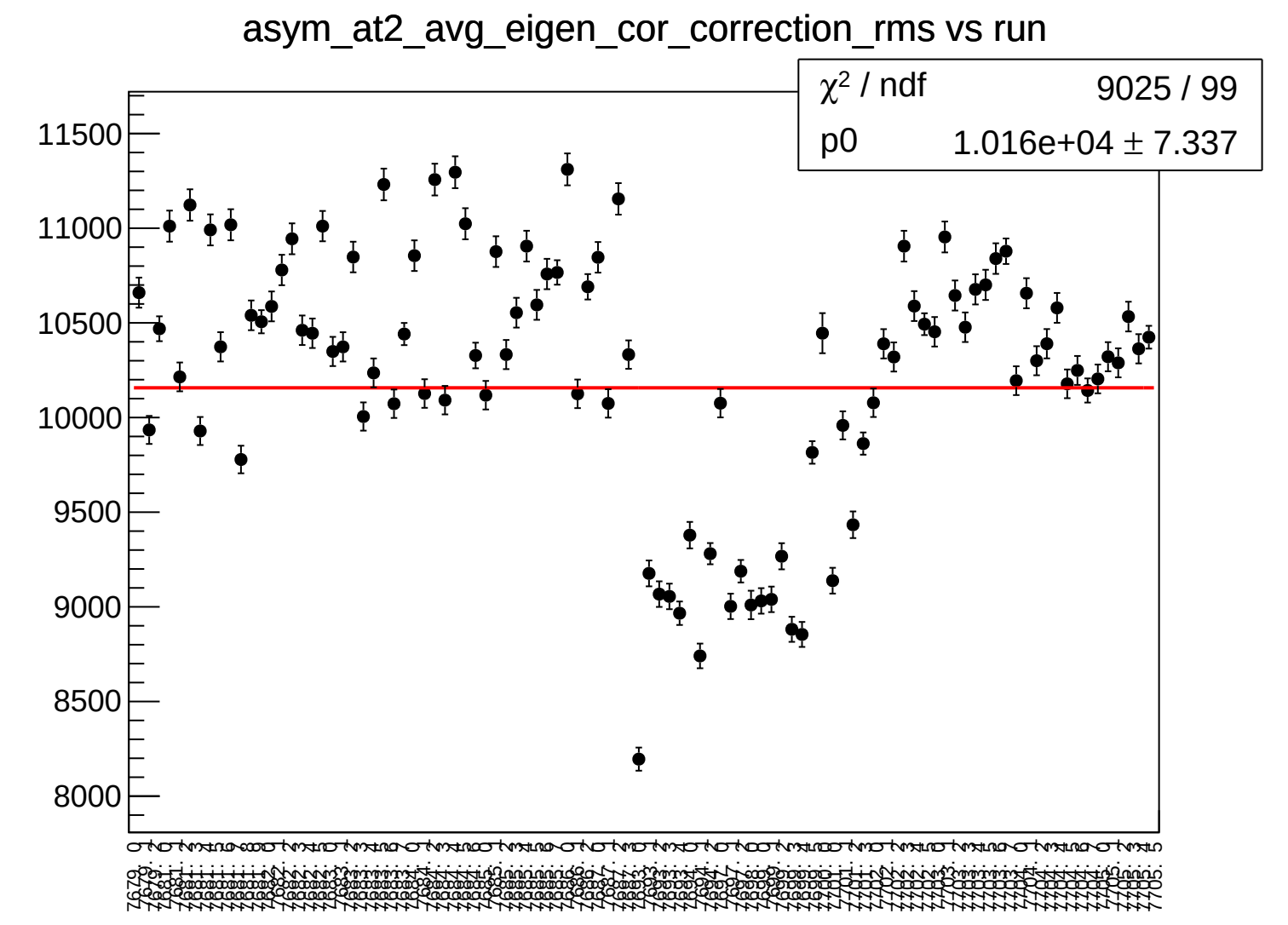

pull1D
Entries 100
Mean 0.004059
Std Dev 1.017

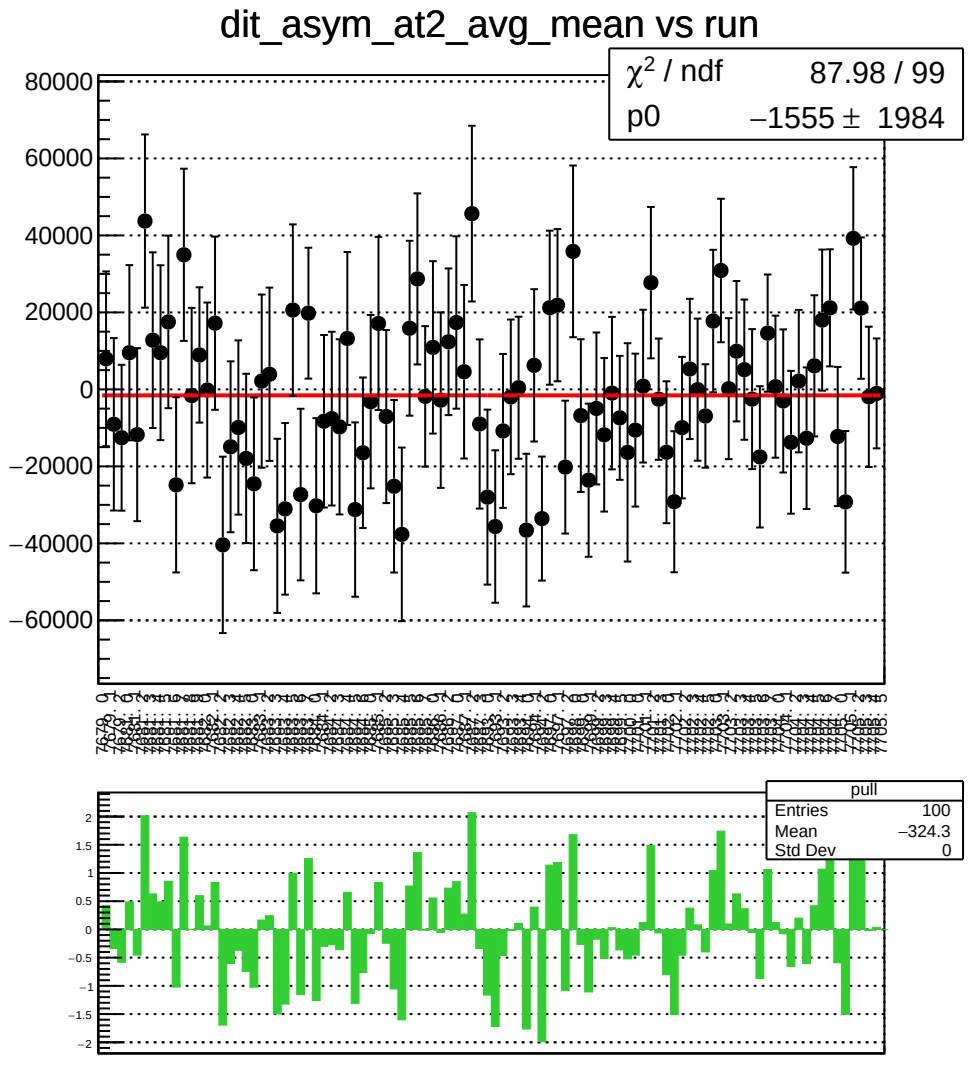

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 9025 / 99
p0 1.016e+04 ± 7.337
11500
11000
10500
10000
9500
9000
8500
8000

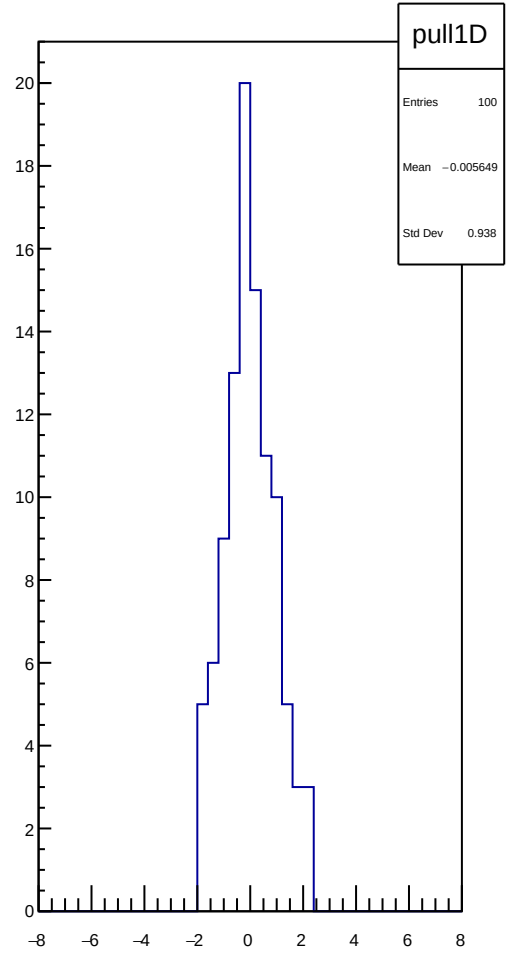

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 87.58 / 99
p0 −1178 ± 1965
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −335.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 100
Mean −0.00703
Std Dev 0.9358
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

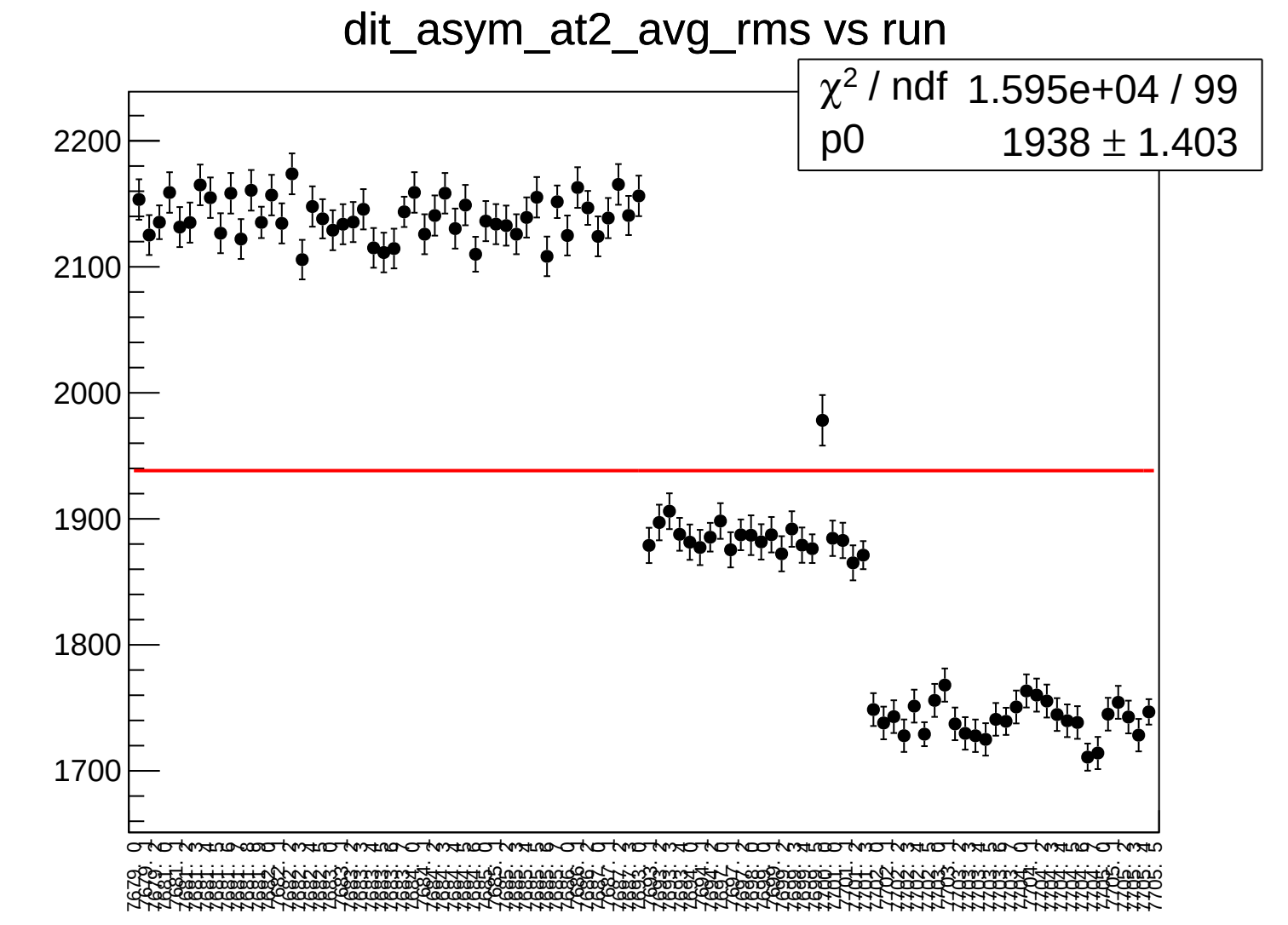

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 1.839e+04 / 99
p0 1918 ± 1.389
2200
2100
2000
1900
1800
1700

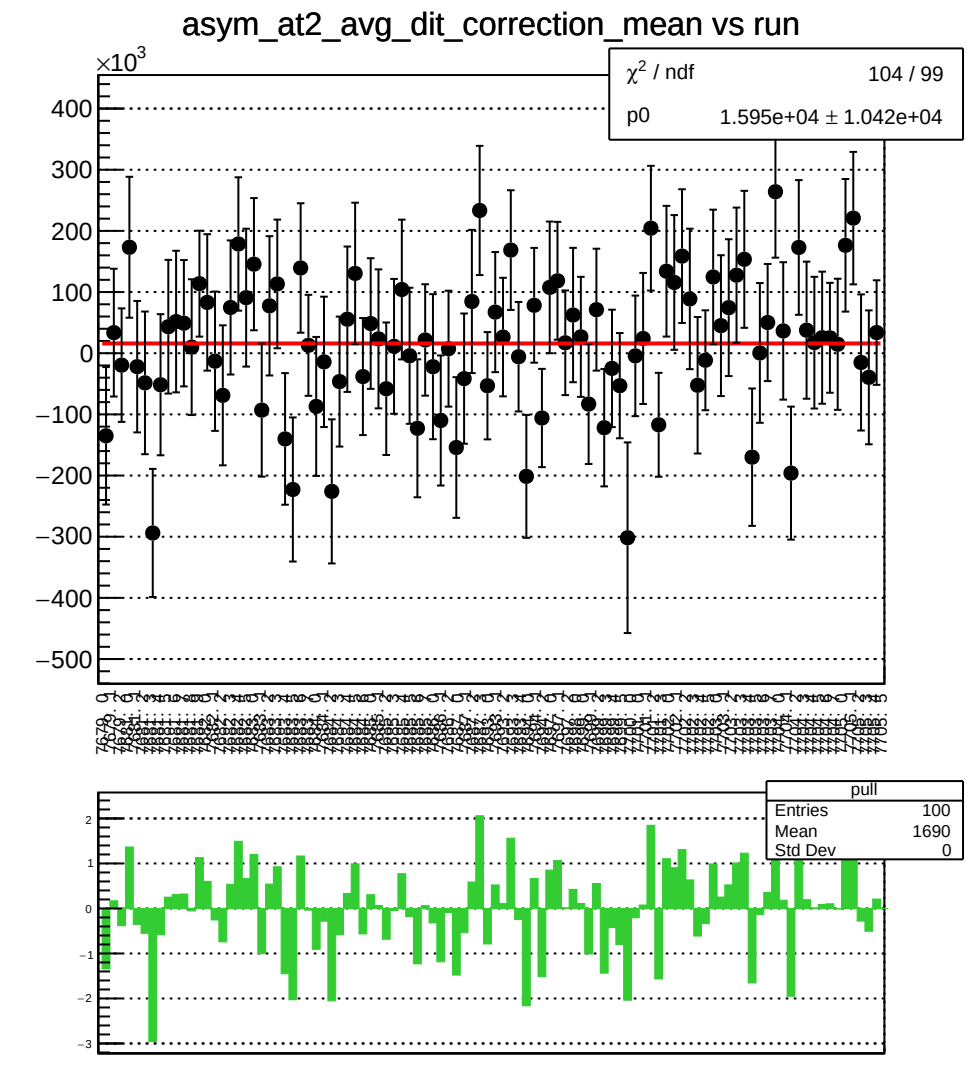

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 103.4 / 99
p0 1.599e+04 ± 1.038e+04
pull
Entries 100
Mean 1180
Std Dev 0
pull1D
Entries 100
Mean 0.004059
Std Dev 1.017

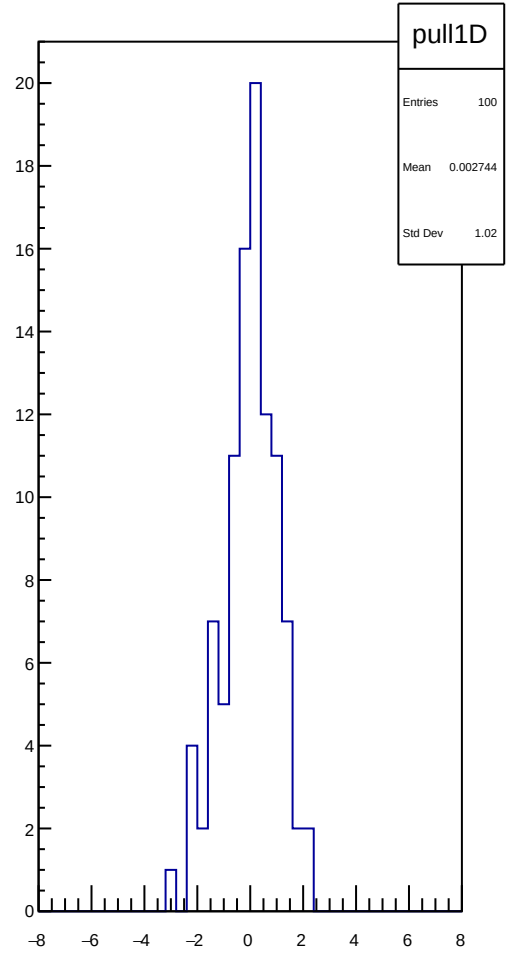

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 9025 / 99
p0 1.016e+04 ± 7.337
11500
11000
10500
10000
9500
9000
8500
8000

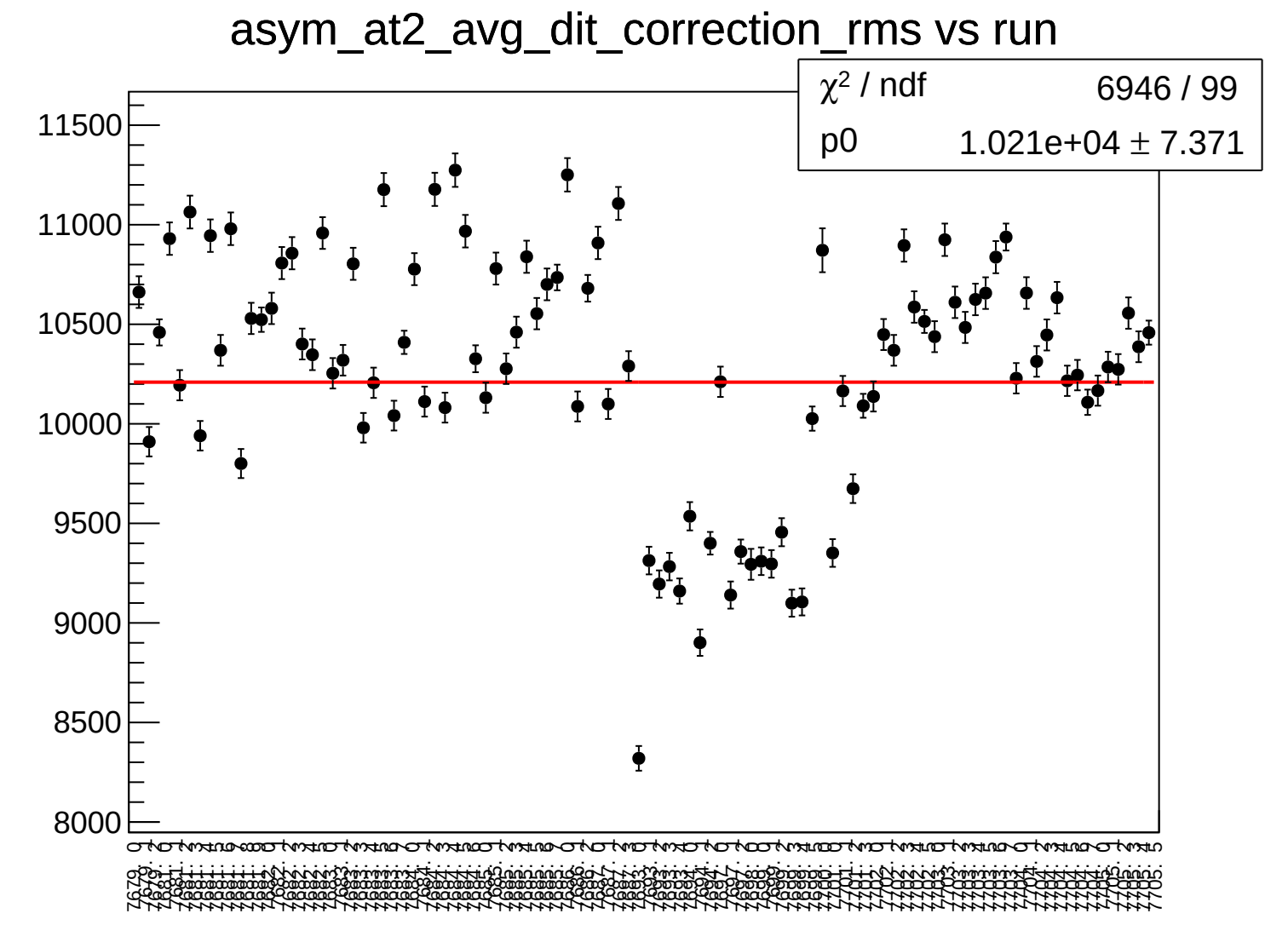

dit_asym_at2_avg_mean vs run
χ² / ndf 87.98 / 99
p0 −1555 ± 1984
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −324.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

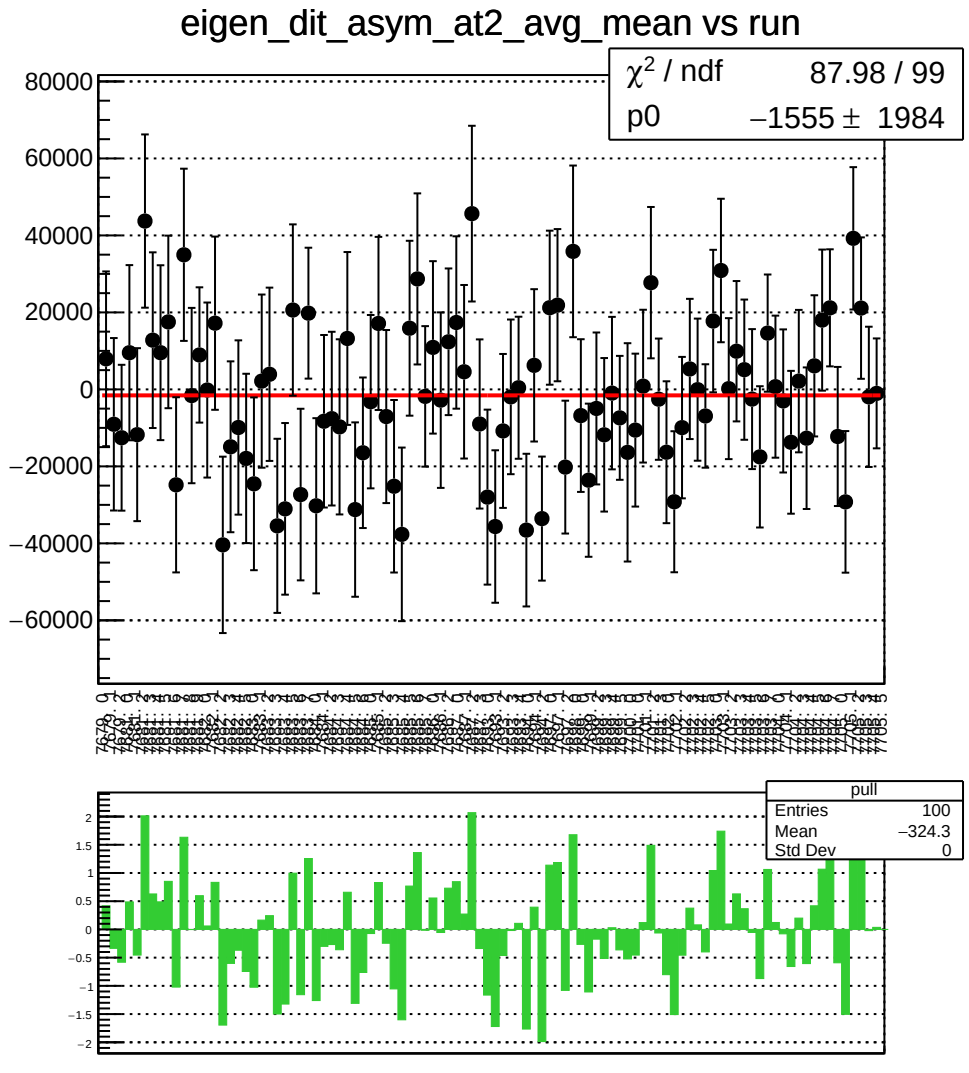

pull1D
Entries 100
Mean −0.005649
Std Dev 0.938
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

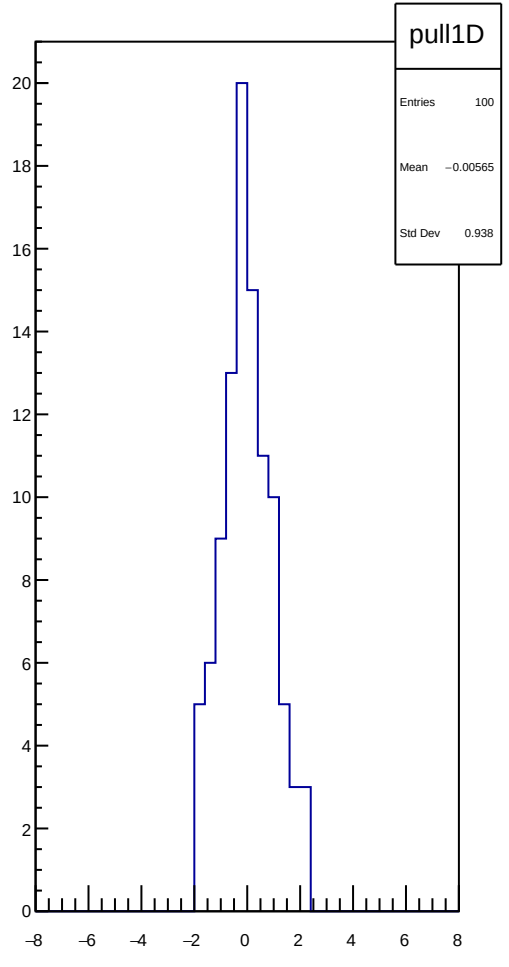

dit_asym_at2_avg_rms vs run
χ^2 / ndf 1.595e+04 / 99
p0 1938 ± 1.403
2200
2100
2000
1900
1800
1700

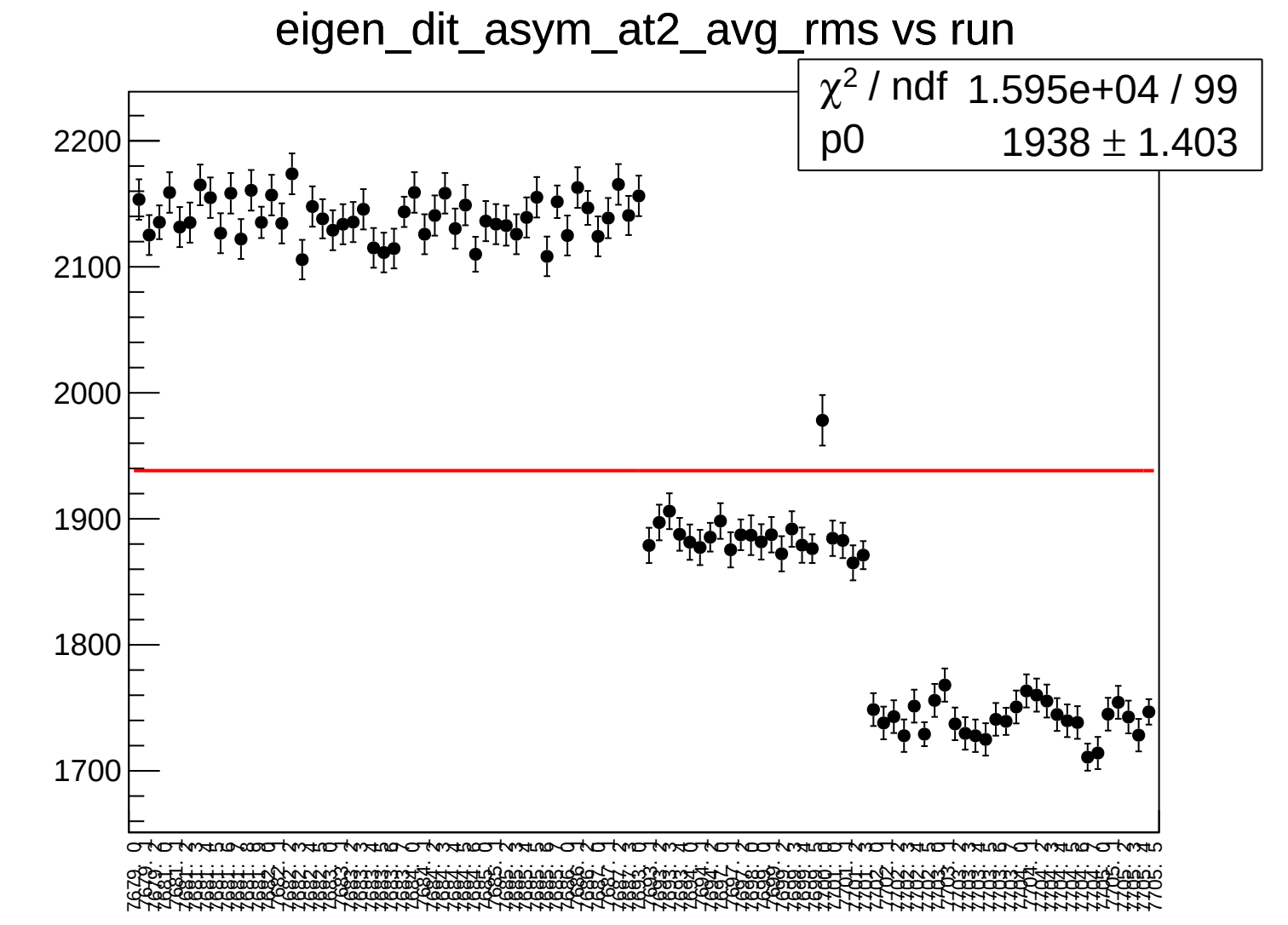

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 104 / 99
p0 1.595e+04 ± 1.042e+04
pull
Entries 100
Mean 1690
Std Dev 0

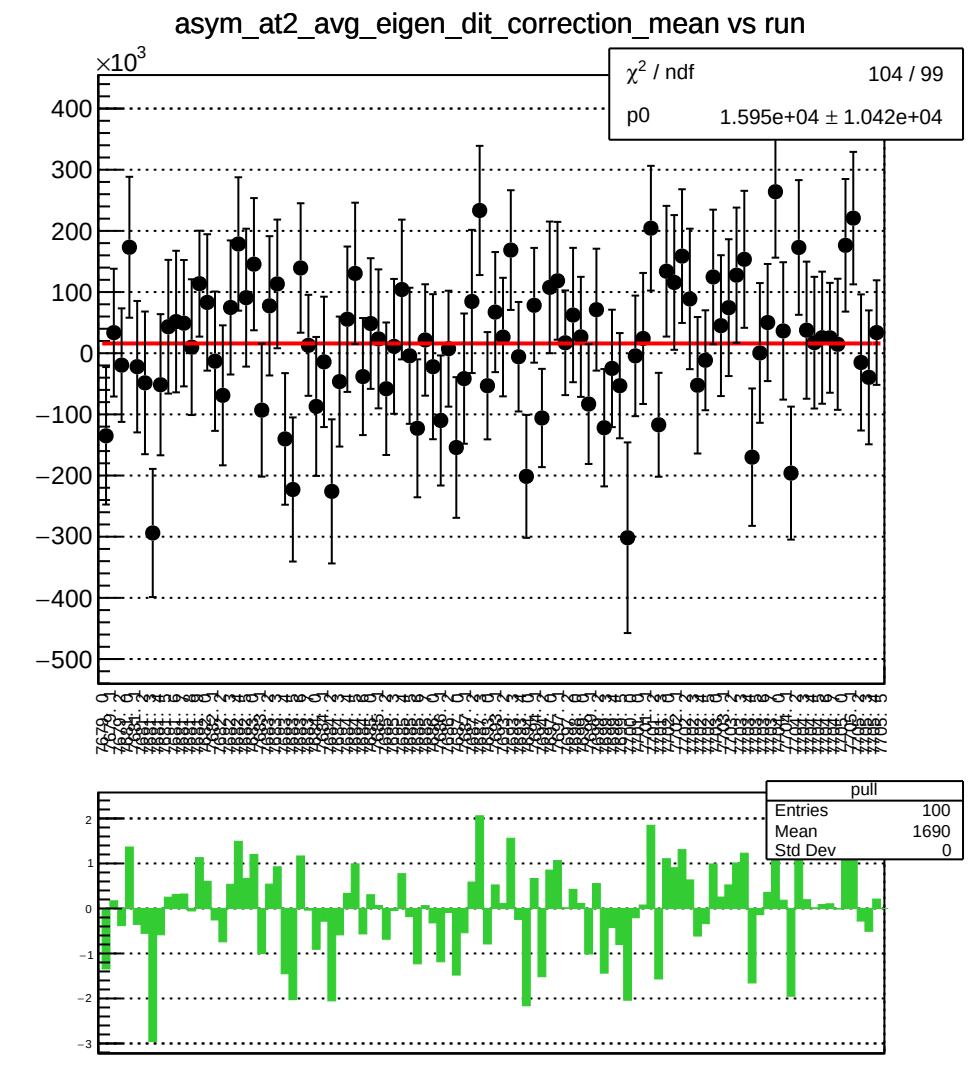

pull1D
Entries 100
Mean 0.002744
Std Dev 1.02

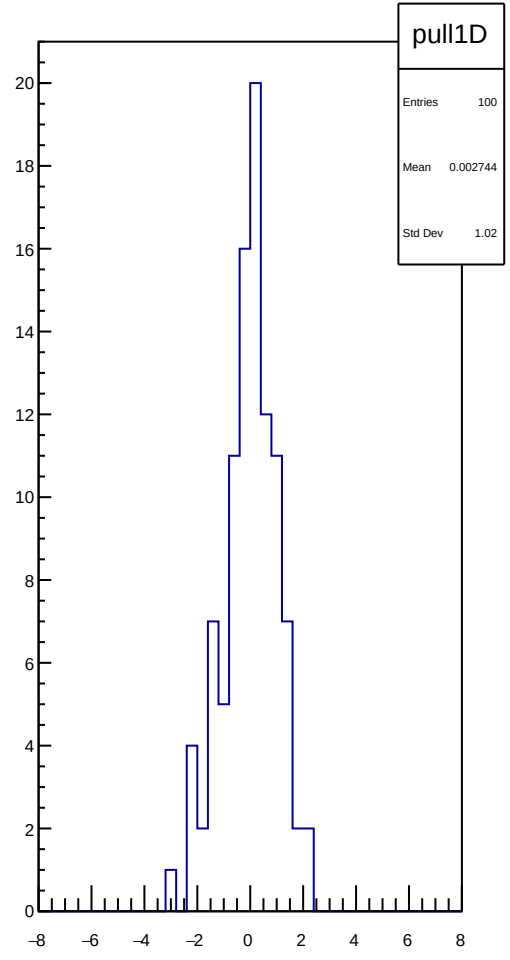

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 6946 / 99
p0 1.021e+04 ± 7.371
11500
11000
10500
10000
9500
9000
8500
8000

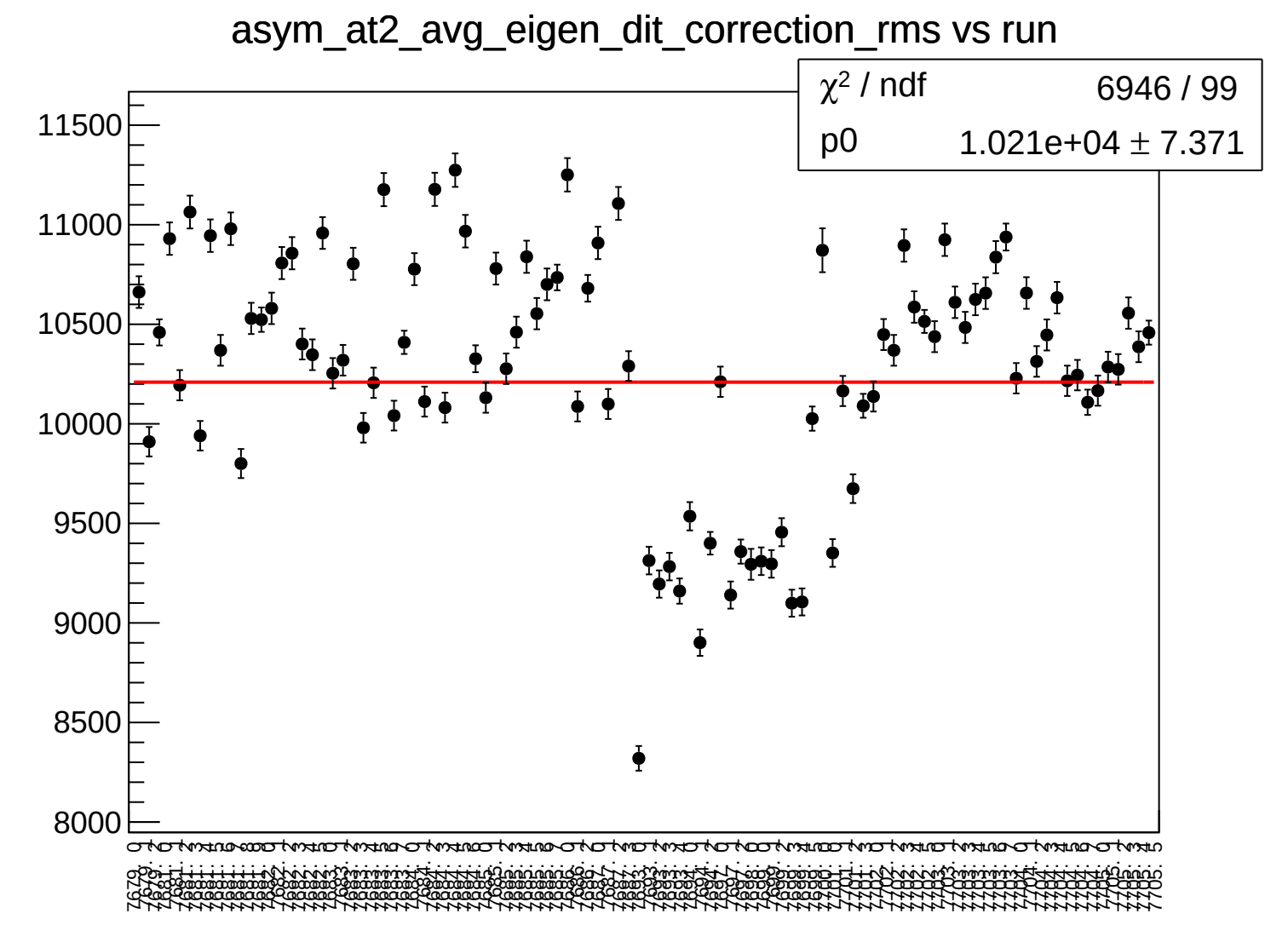

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 87.98 / 99
p0 −1555 ± 1984
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −324.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

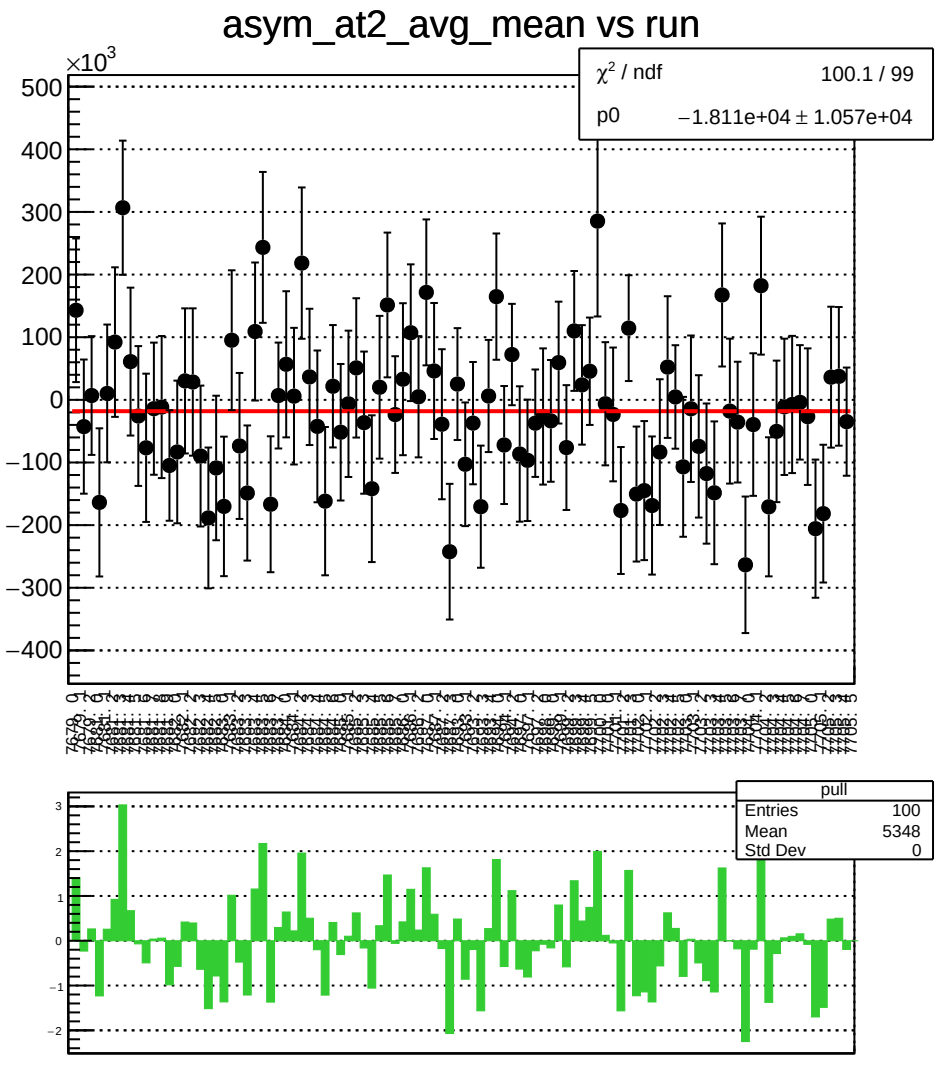

pull1D
Entries 100
Mean −0.00565
Std Dev 0.938
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

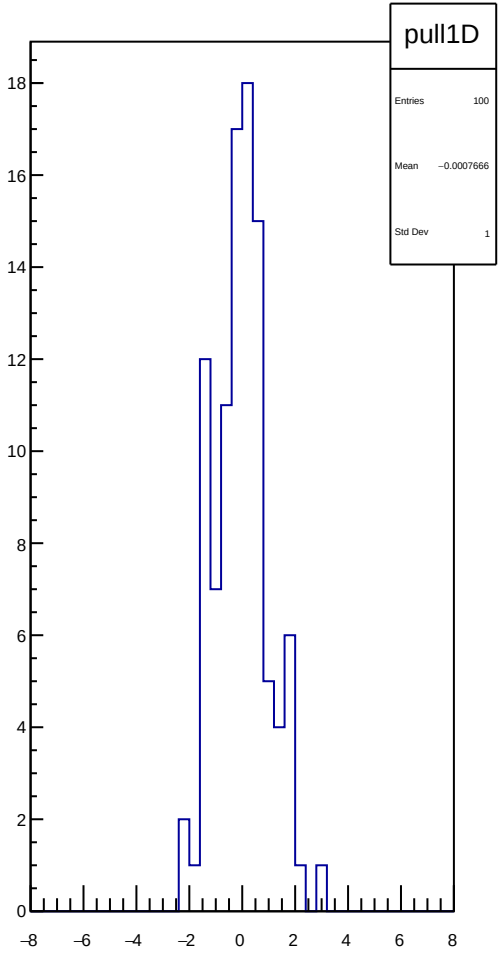

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 1.595e+04 / 99
p0 1938 ± 1.403
2200
2100
2000
1900
1800
1700

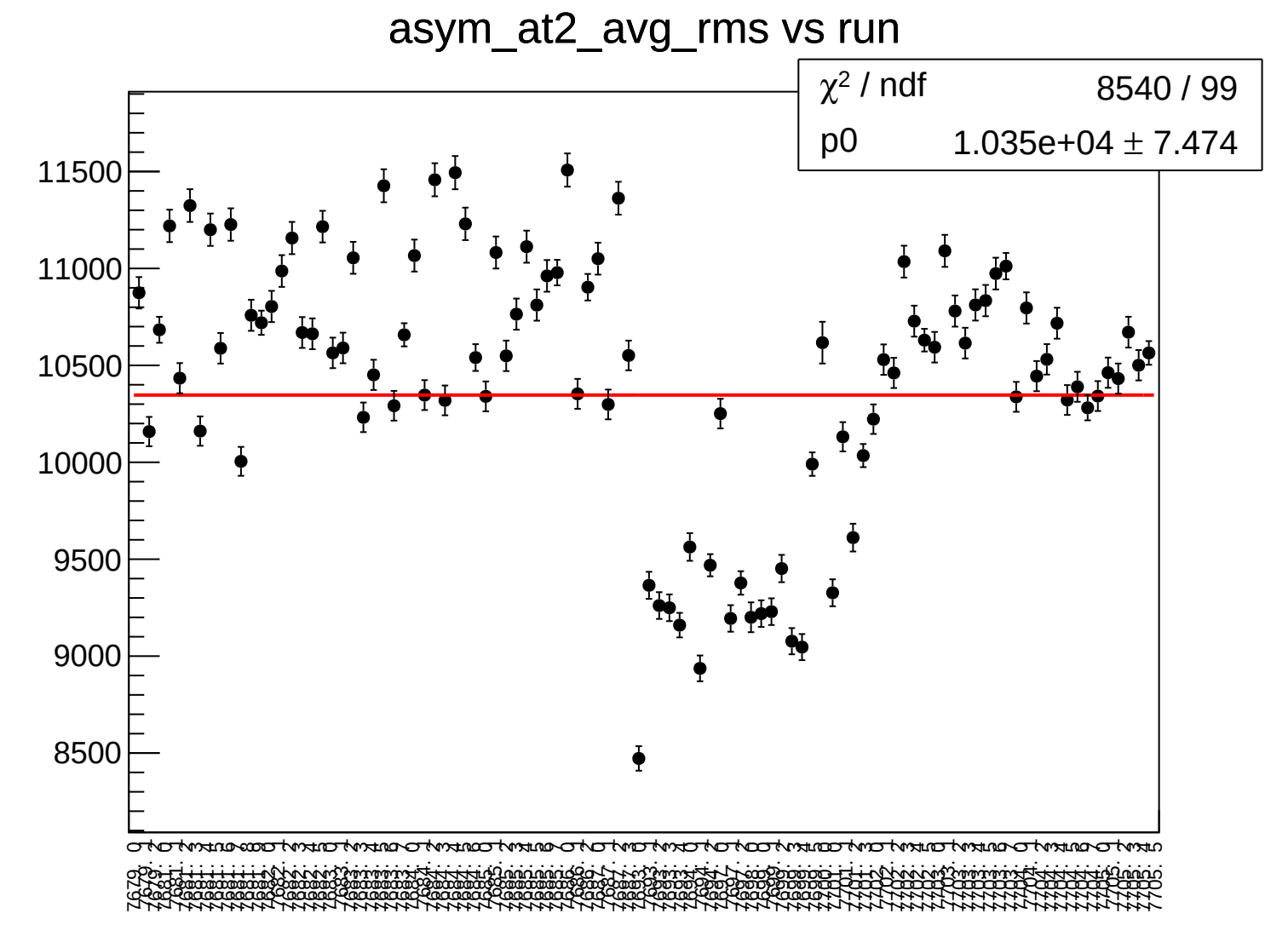

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 104 / 99
p0 1.595e+04 ± 1.042e+04
pull
Entries 100
Mean 1690
Std Dev 0

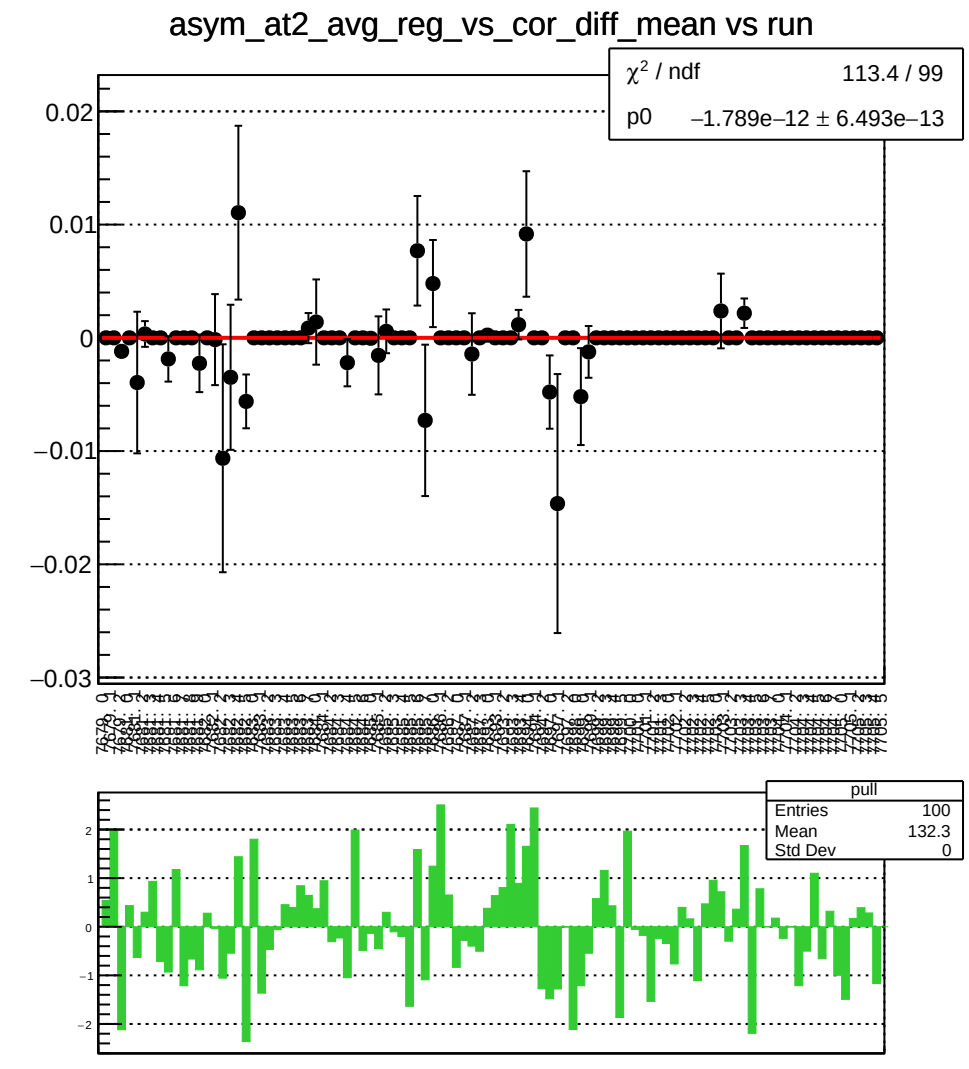

pull1D
Entries 100
Mean 0.002744
Std Dev 1.02

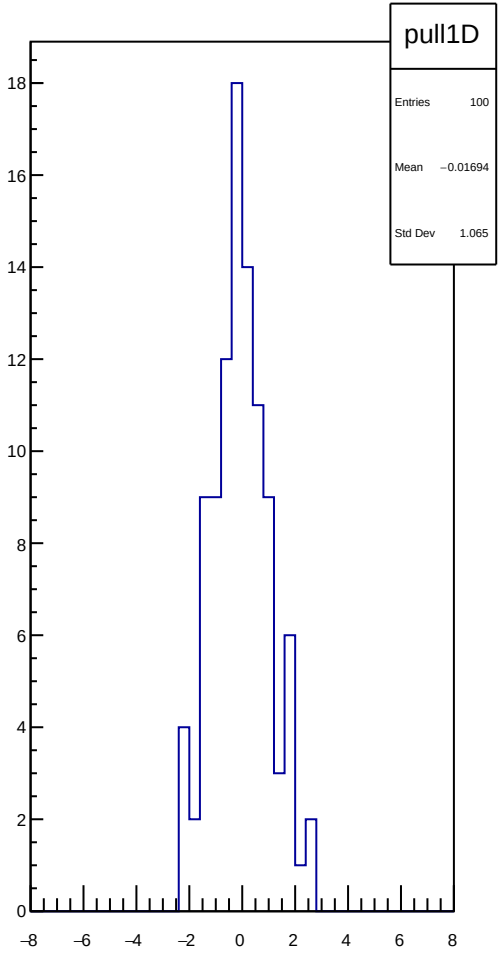

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 6946 / 99
p0 1.021e+04 ± 7.371
11500
11000
10500
10000
9500
9000
8500
8000

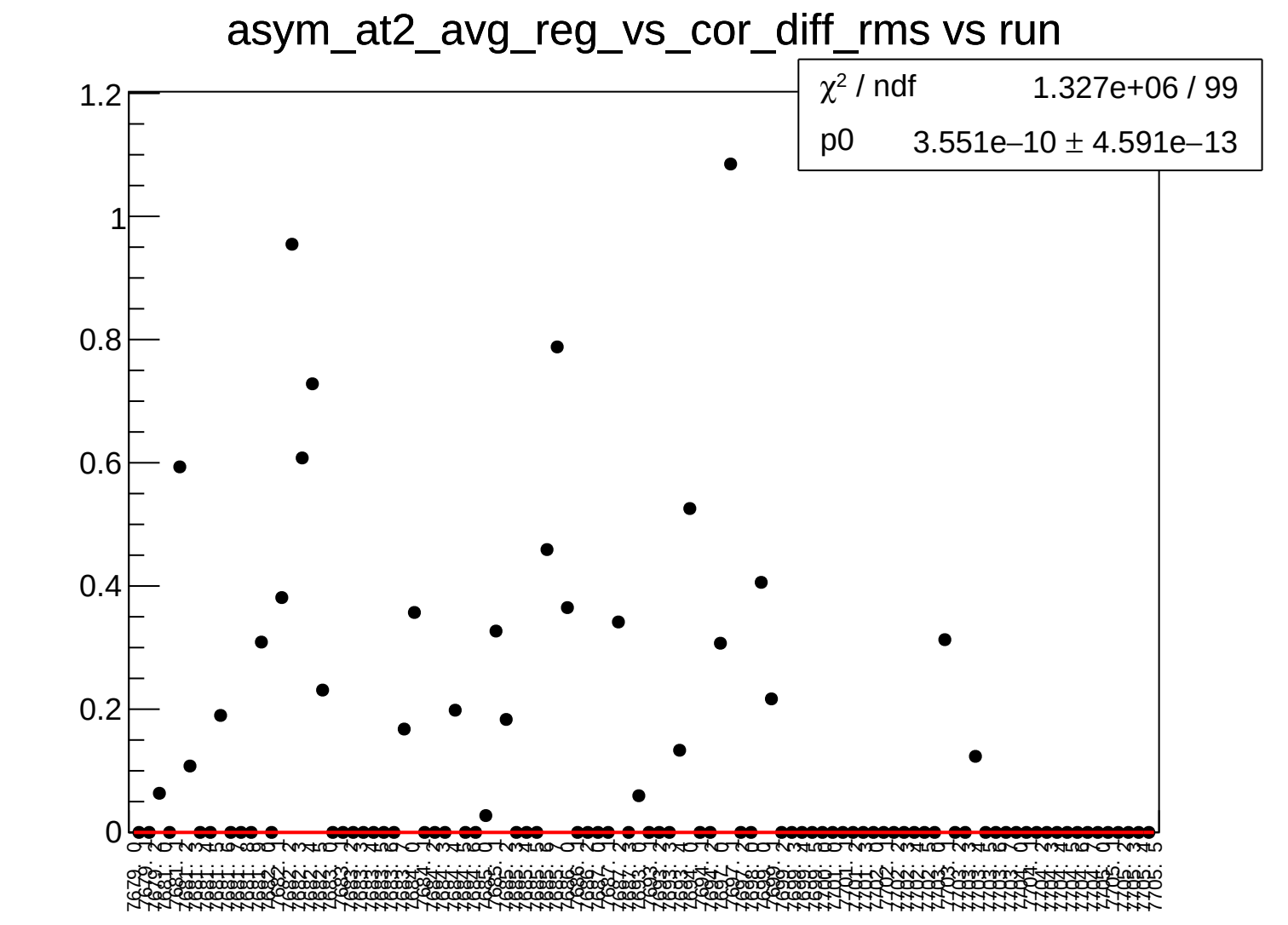

asym_at2_avg_mean vs run
×10^3
χ² / ndf 100.1 / 99
p0 −1.811e+04 ± 1.057e+04
pull
Entries 100
Mean 5348
Std Dev 0

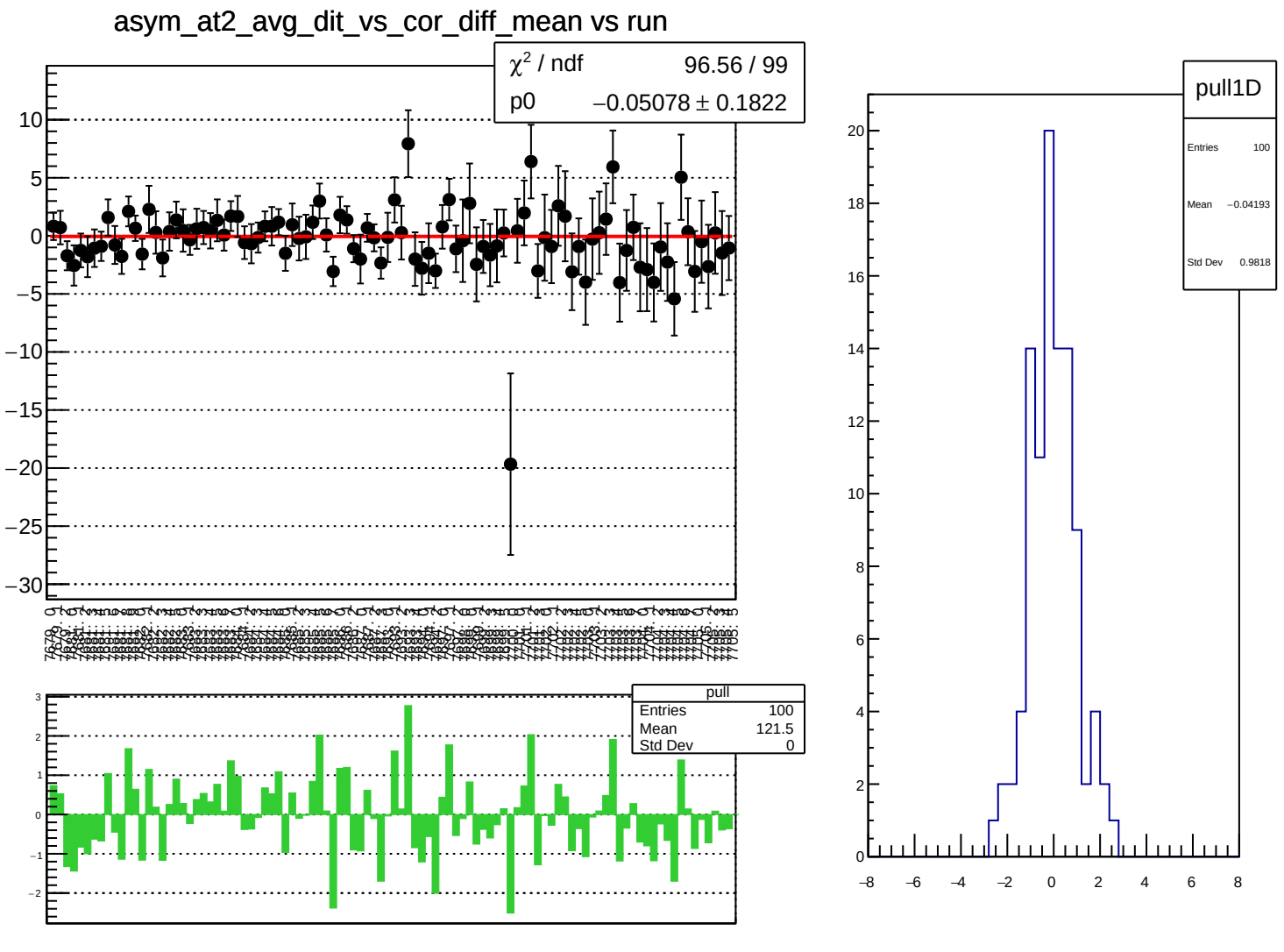

pull1D
Entries 100
Mean −0.0007666
Std Dev 1

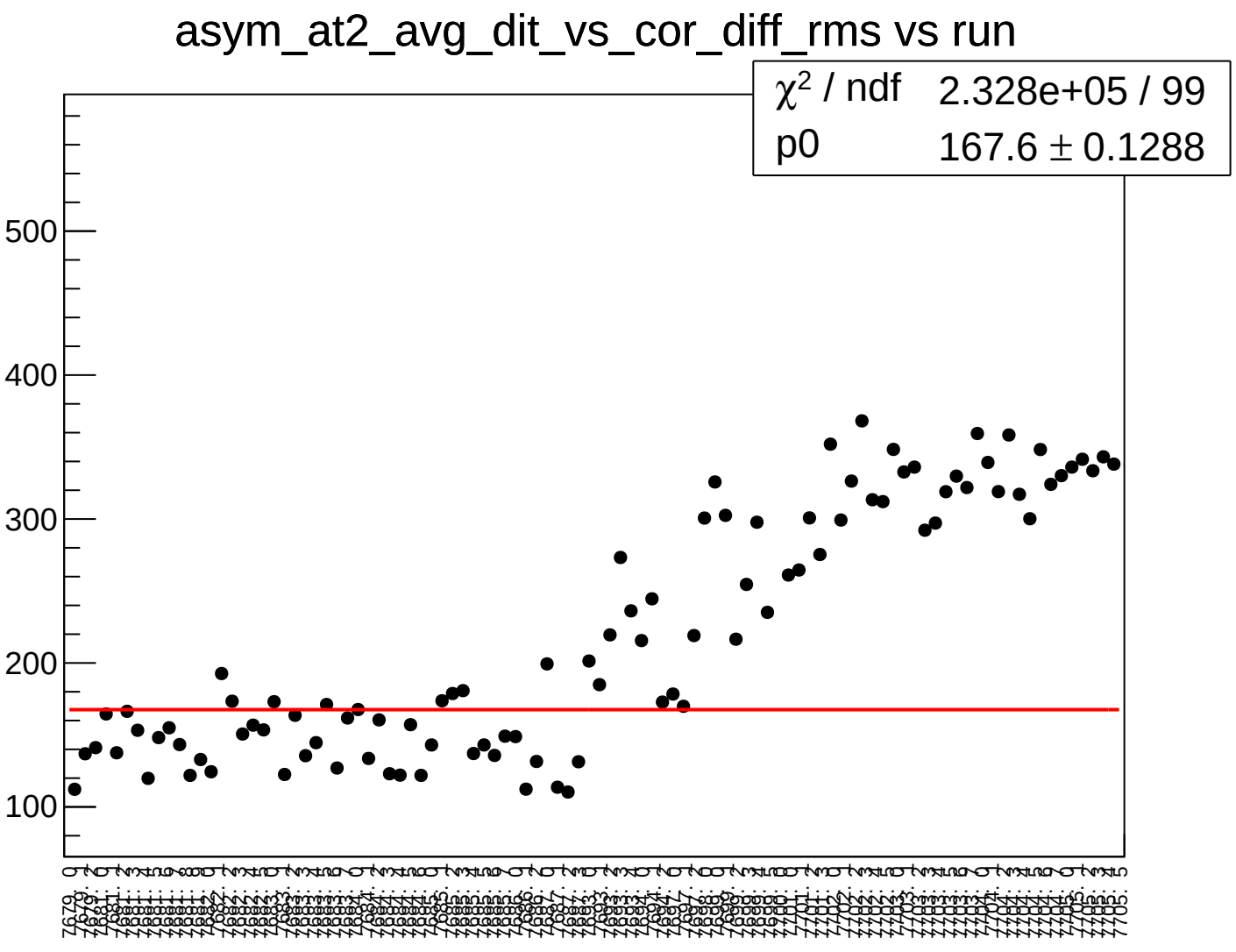

asym_at2_avg_rms vs run
χ² / ndf 8540 / 99
p0 1.035e+04 ± 7.474
11500
11000
10500
10000
9500
9000
8500

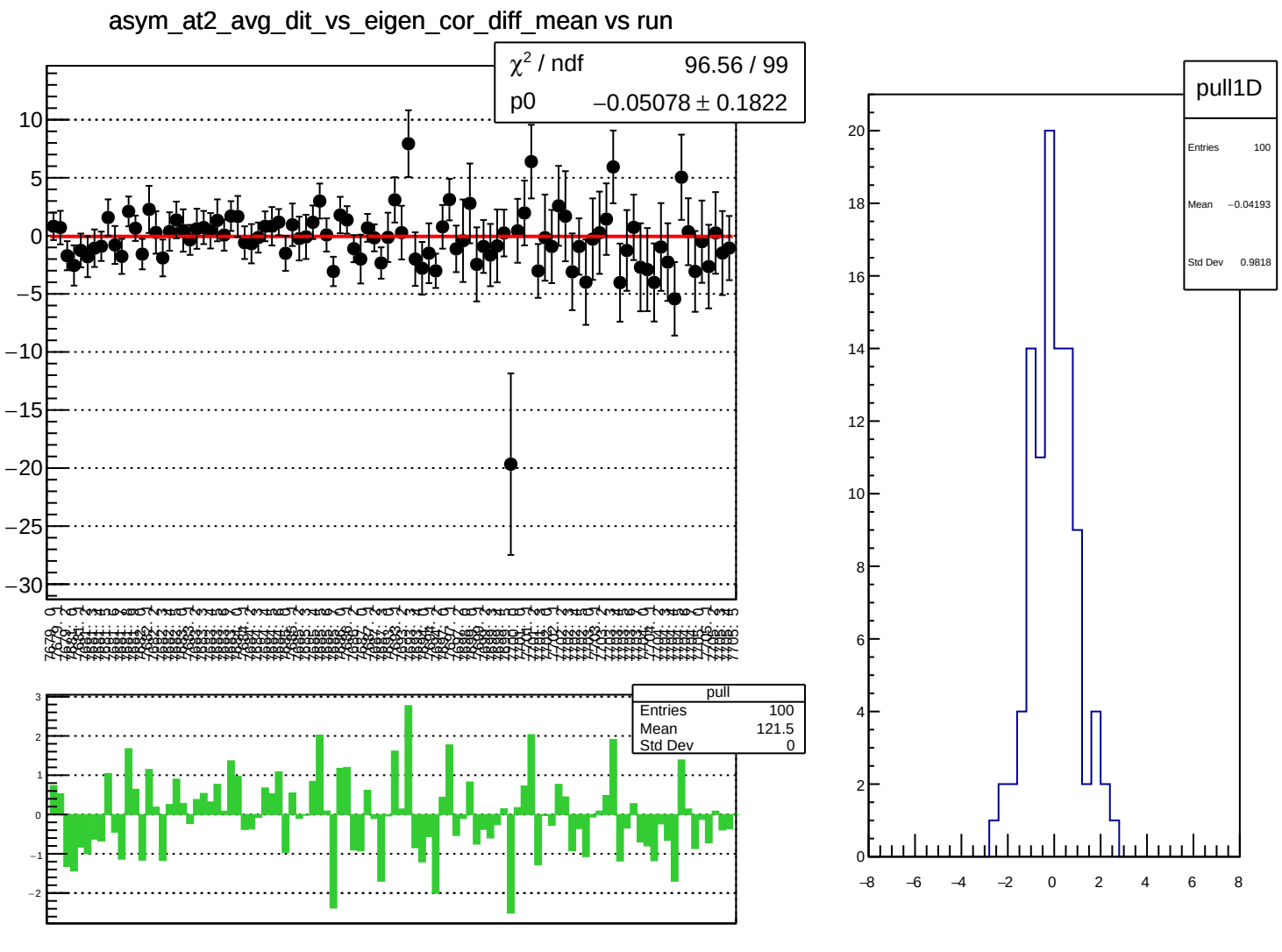

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 113.4 / 99
p0 −1.789e−12 ± 6.493e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 100
Mean 132.3
Std Dev 0
2
1
0
−1
−2

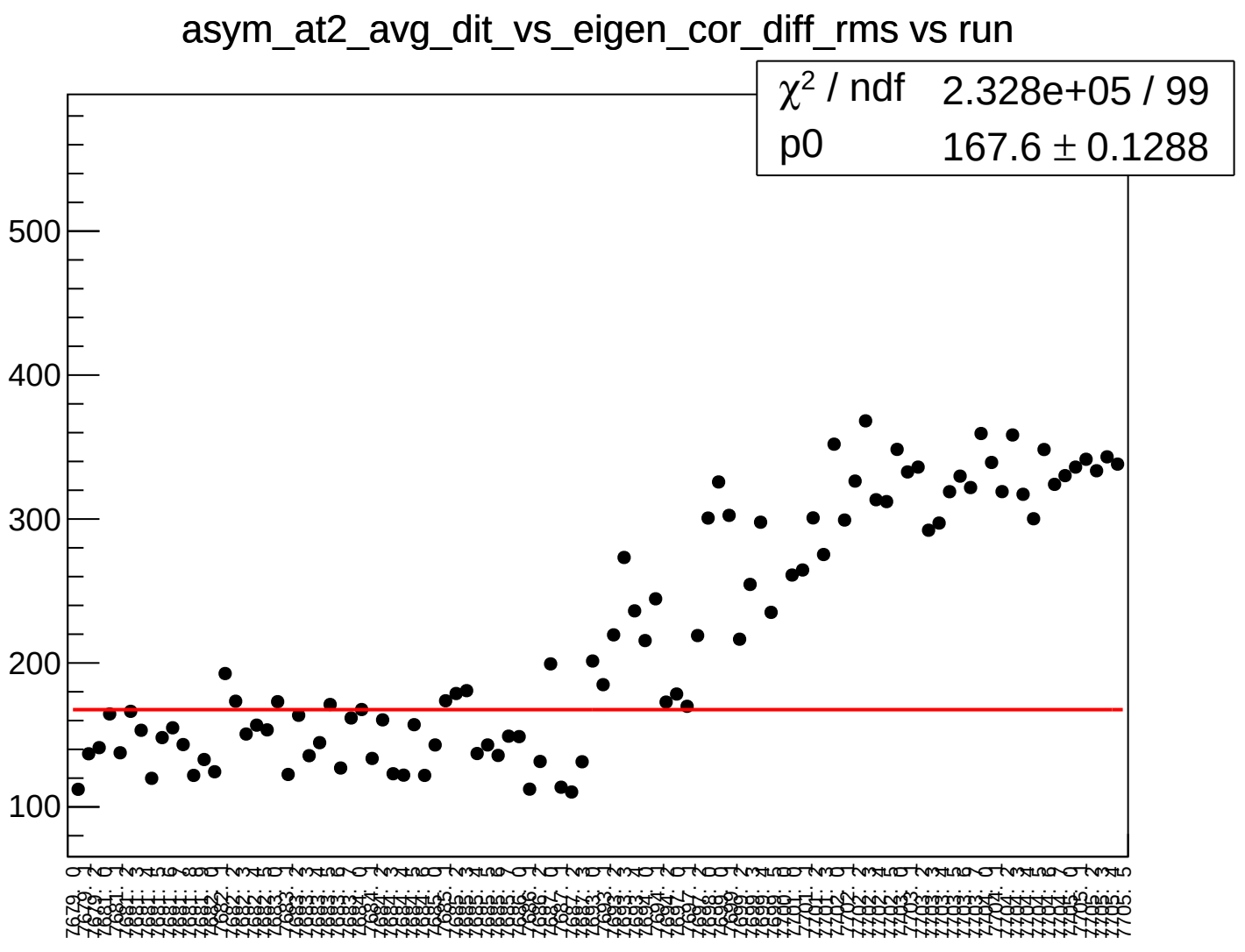

pull1D
Entries 100
Mean −0.01694
Std Dev 1.065
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

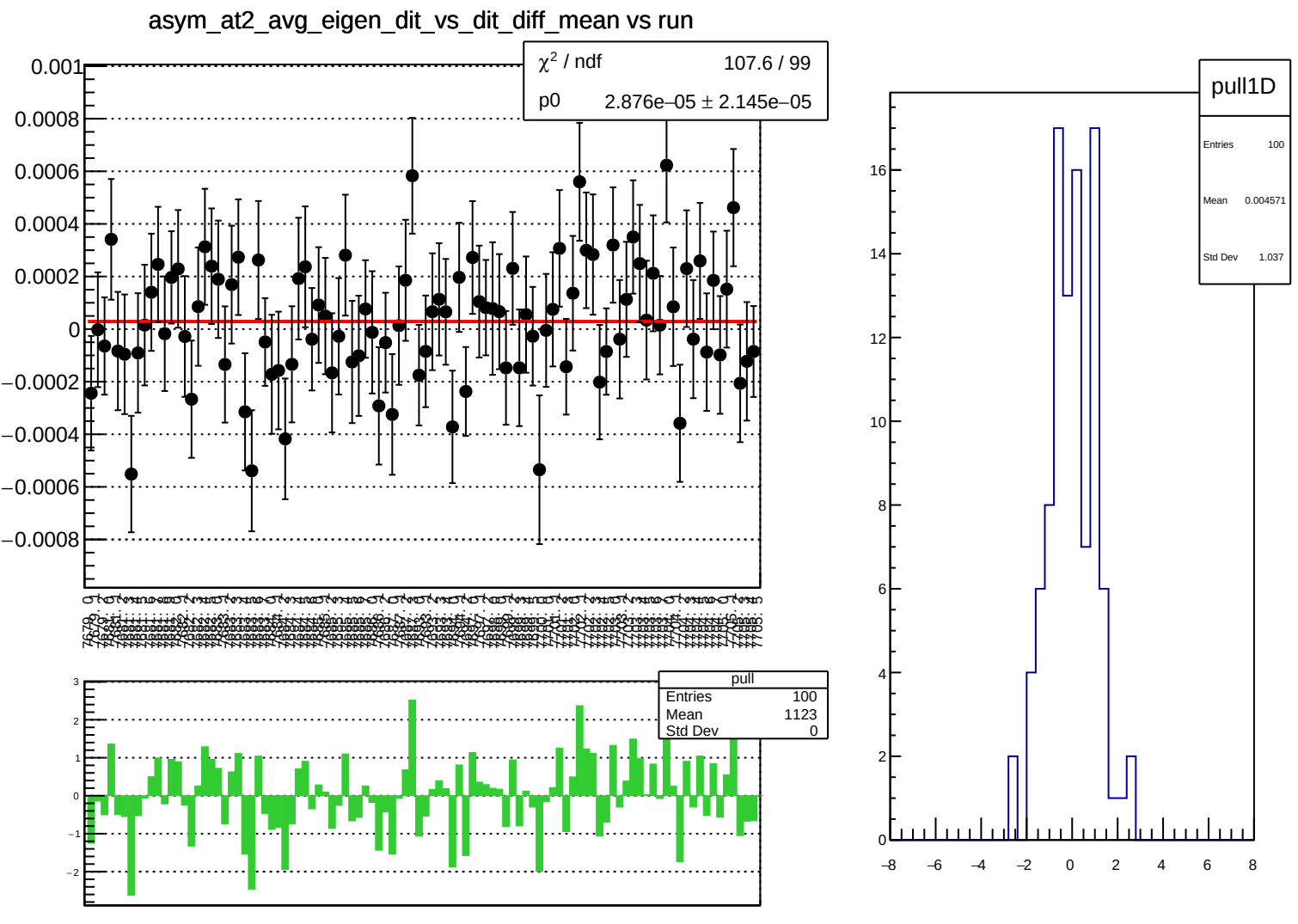

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.327e+06 / 99
p0 3.551e−10 ± 4.591e−13
1.2
1
0.8
0.6
0.4
0.2
0

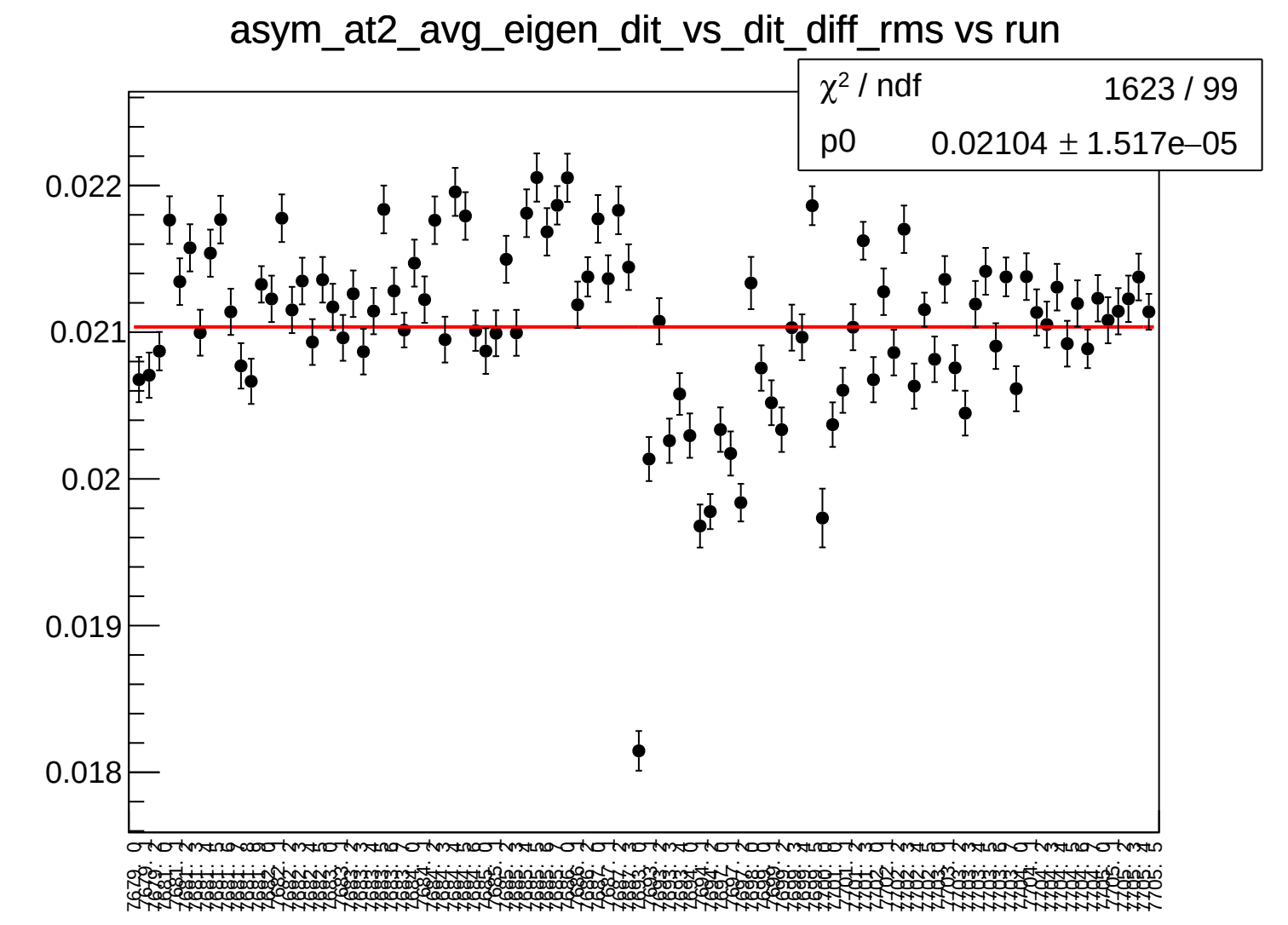

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 96.56 / 99
p0 −0.05078 ± 0.1822
pull
Entries 100
Mean 121.5
Std Dev 0
pull1D
Entries 100
Mean −0.04193
Std Dev 0.9818

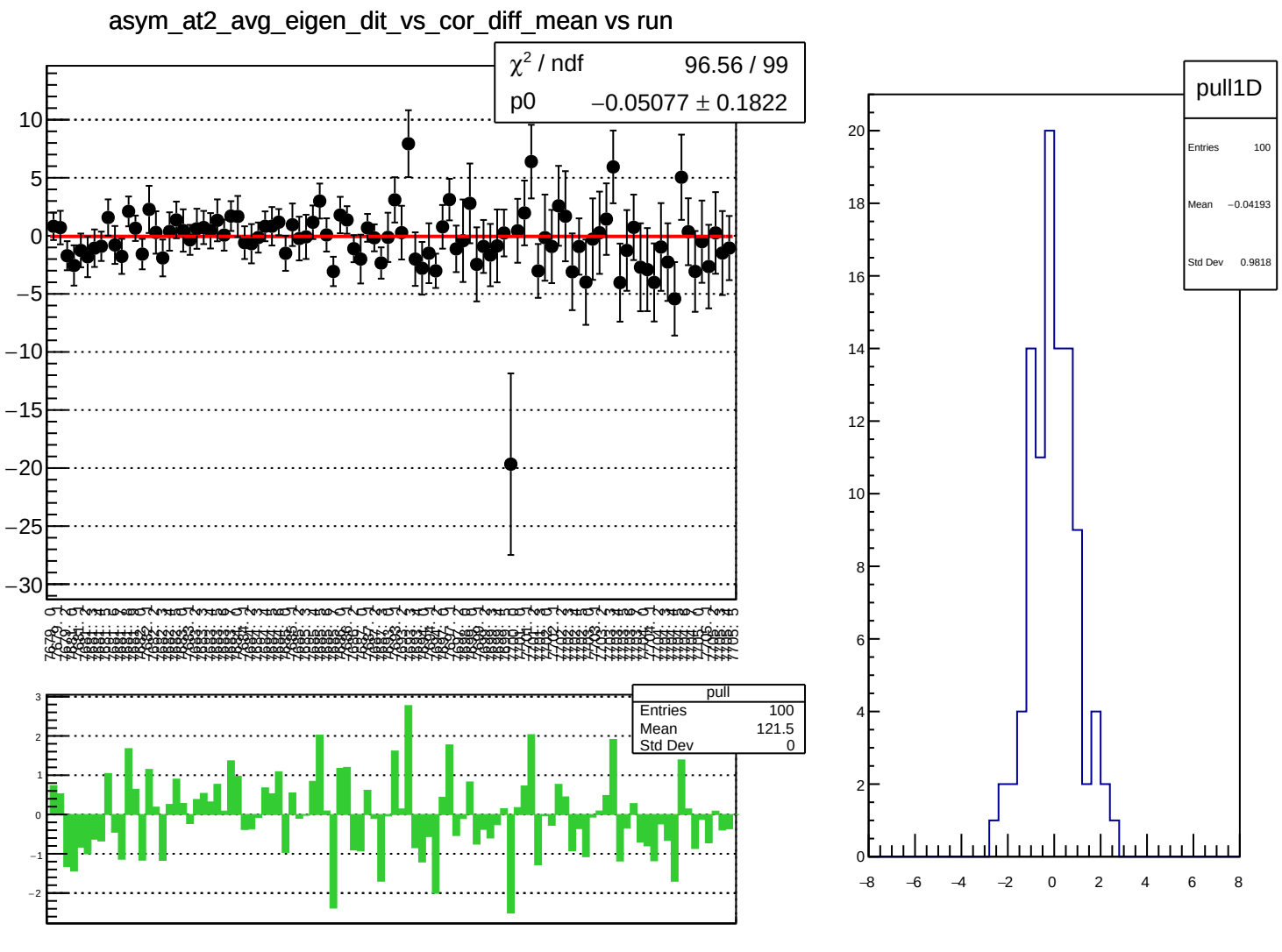

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.328e+05 / 99
p0 167.6 ± 0.1288
500
400
300
200
100

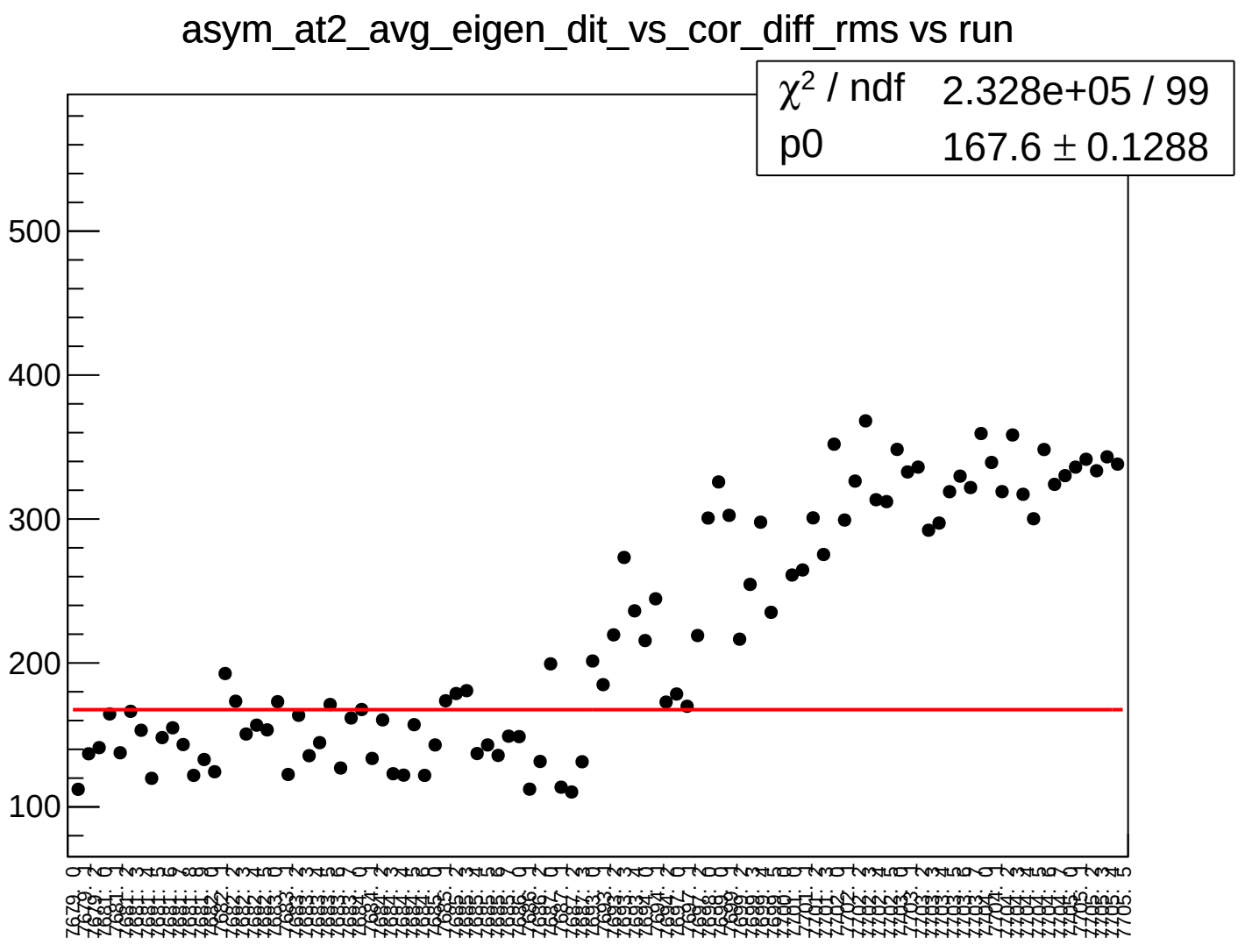

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.56 / 99
p0 −0.05078 ± 0.1822
pull
Entries 100
Mean 121.5
Std Dev 0
pull1D
Entries 100
Mean −0.04193
Std Dev 0.9818

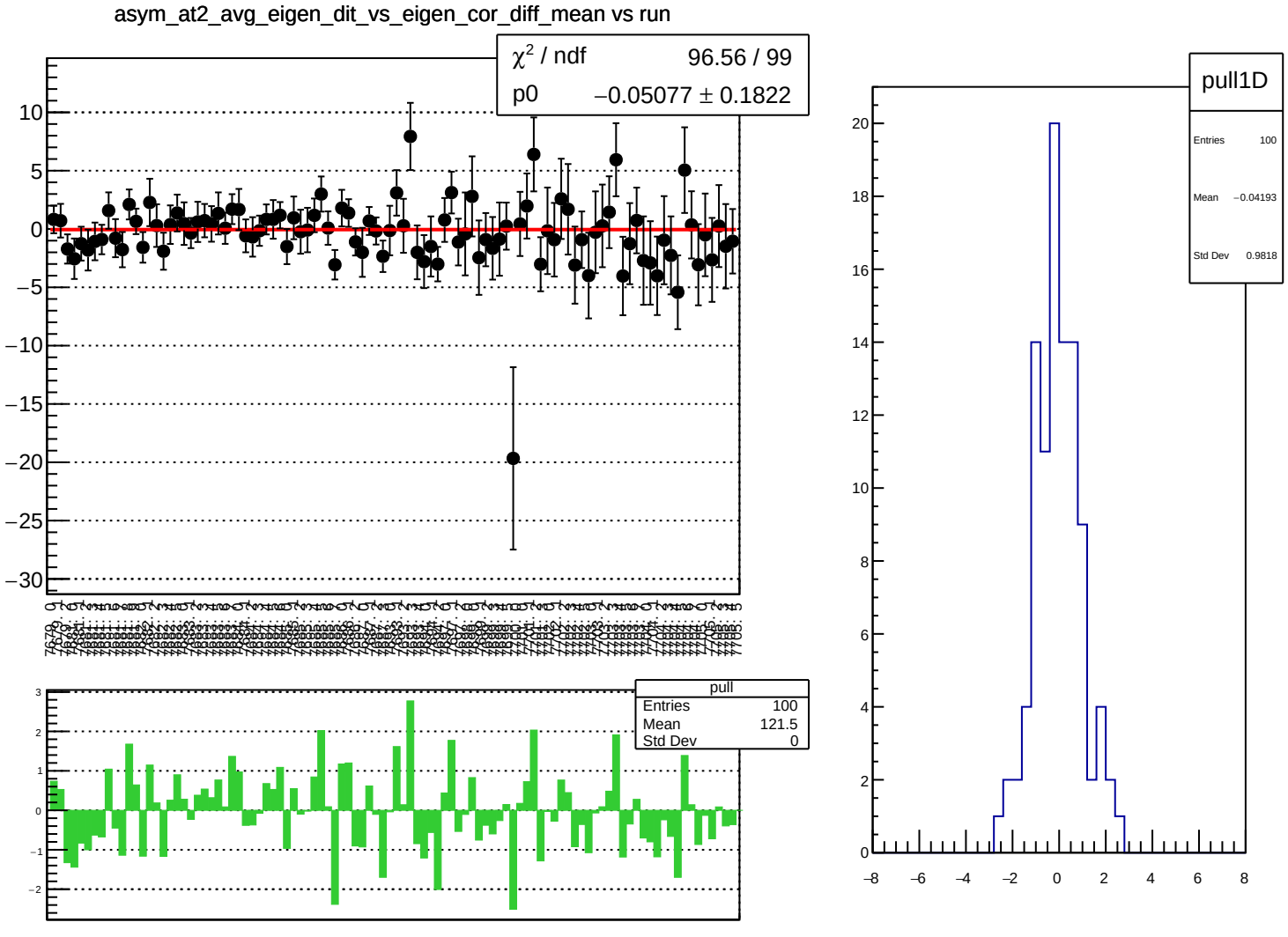

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.328e+05 / 99
p0 167.6 ± 0.1288
500
400
300
200
100

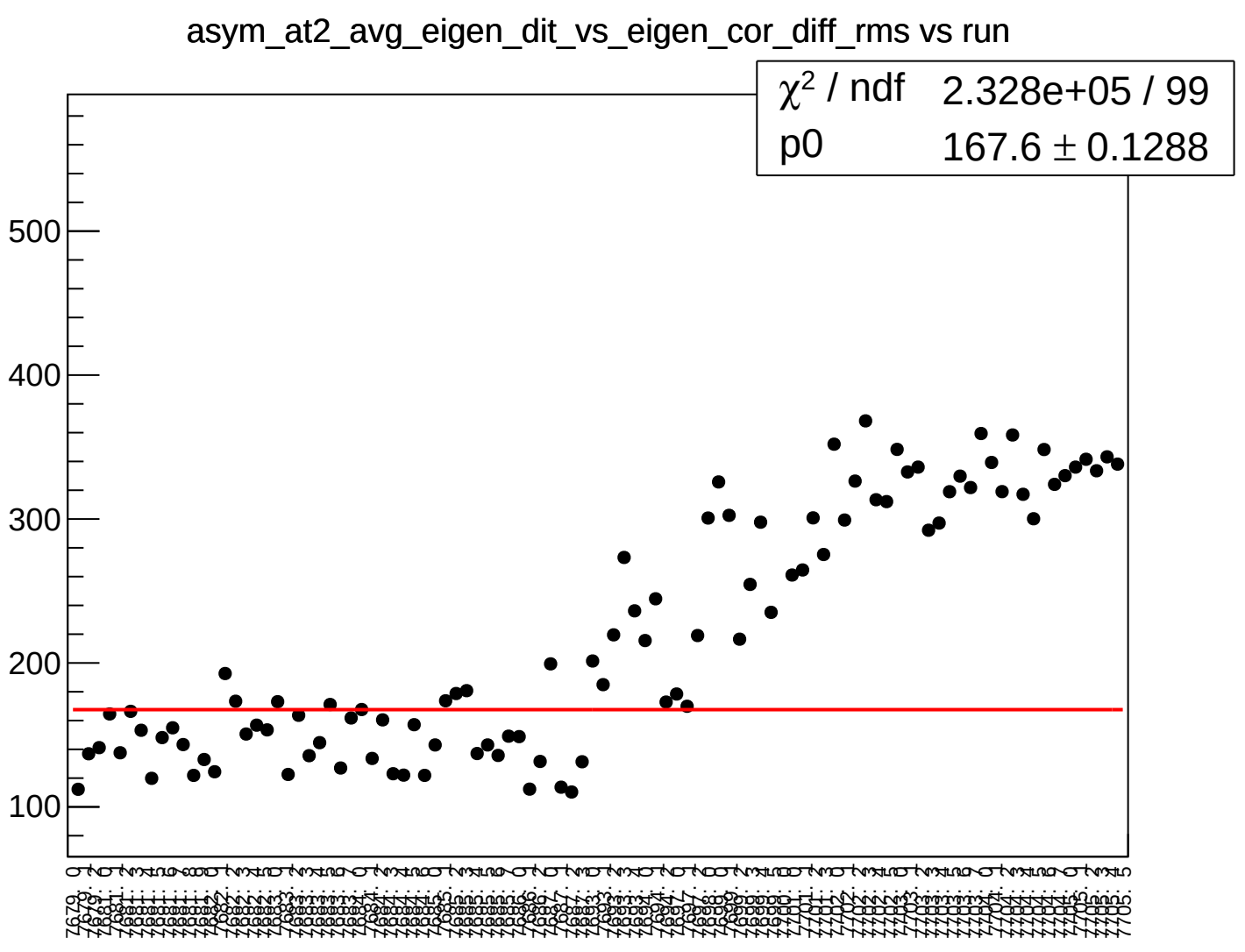

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 107.6 / 99
p0 2.876e−05 ± 2.145e−05
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 100
Mean 1123
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.004571
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

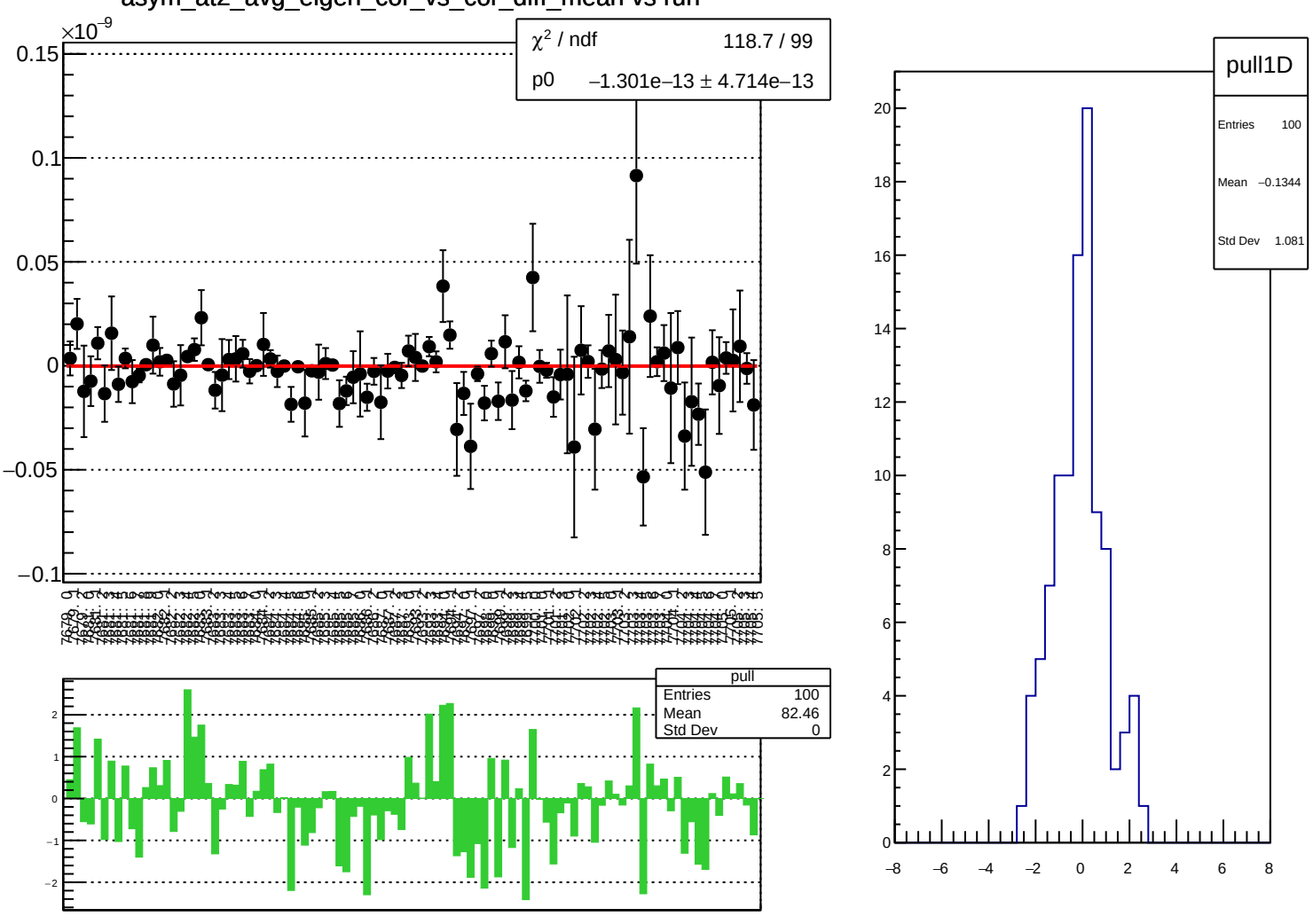

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1623 / 99
p0 0.02104 ± 1.517e–05
0.022
0.021
0.02
0.019
0.018

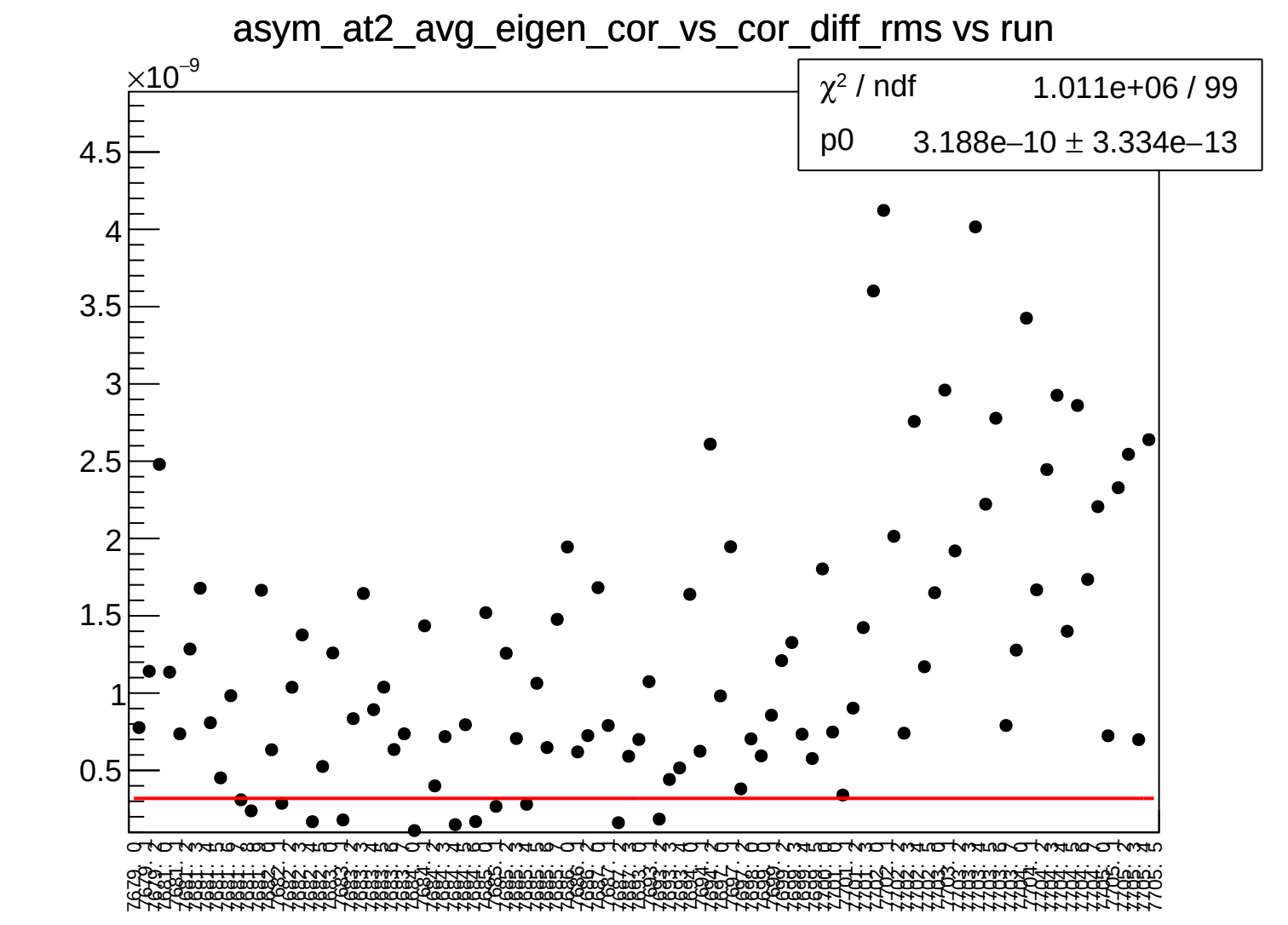

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.56 / 99
p0 −0.05077 ± 0.1822
pull
Entries 100
Mean 121.5
Std Dev 0
pull1D
Entries 100
Mean −0.04193
Std Dev 0.9818

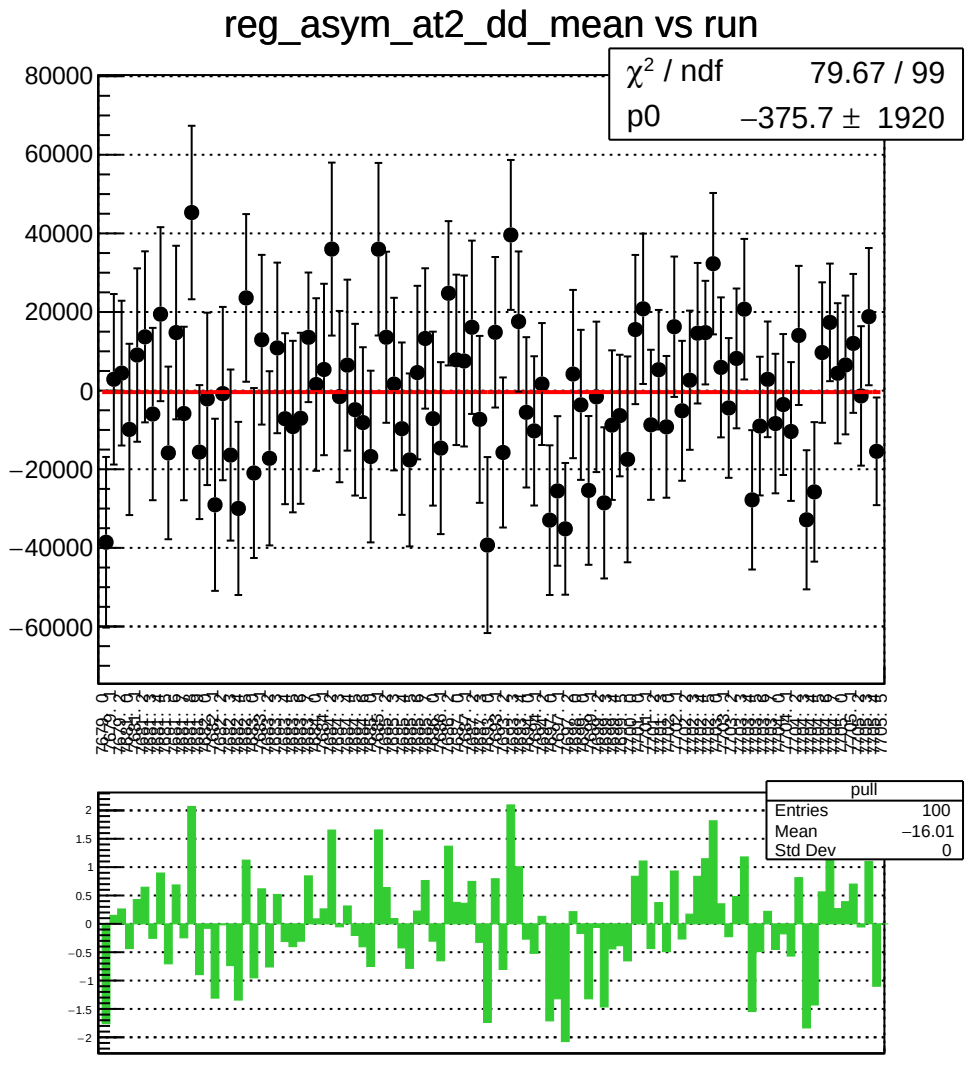

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.328e+05 / 99
p0 167.6 ± 0.1288
500
400
300
200
100

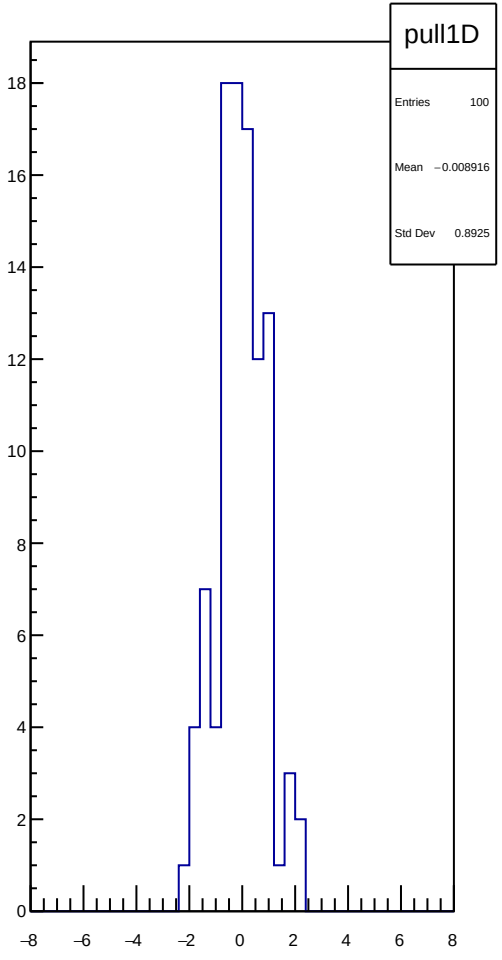

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.56 / 99
p0 −0.05077 ± 0.1822
pull
Entries 100
Mean 121.5
Std Dev 0
pull1D
Entries 100
Mean −0.04193
Std Dev 0.9818

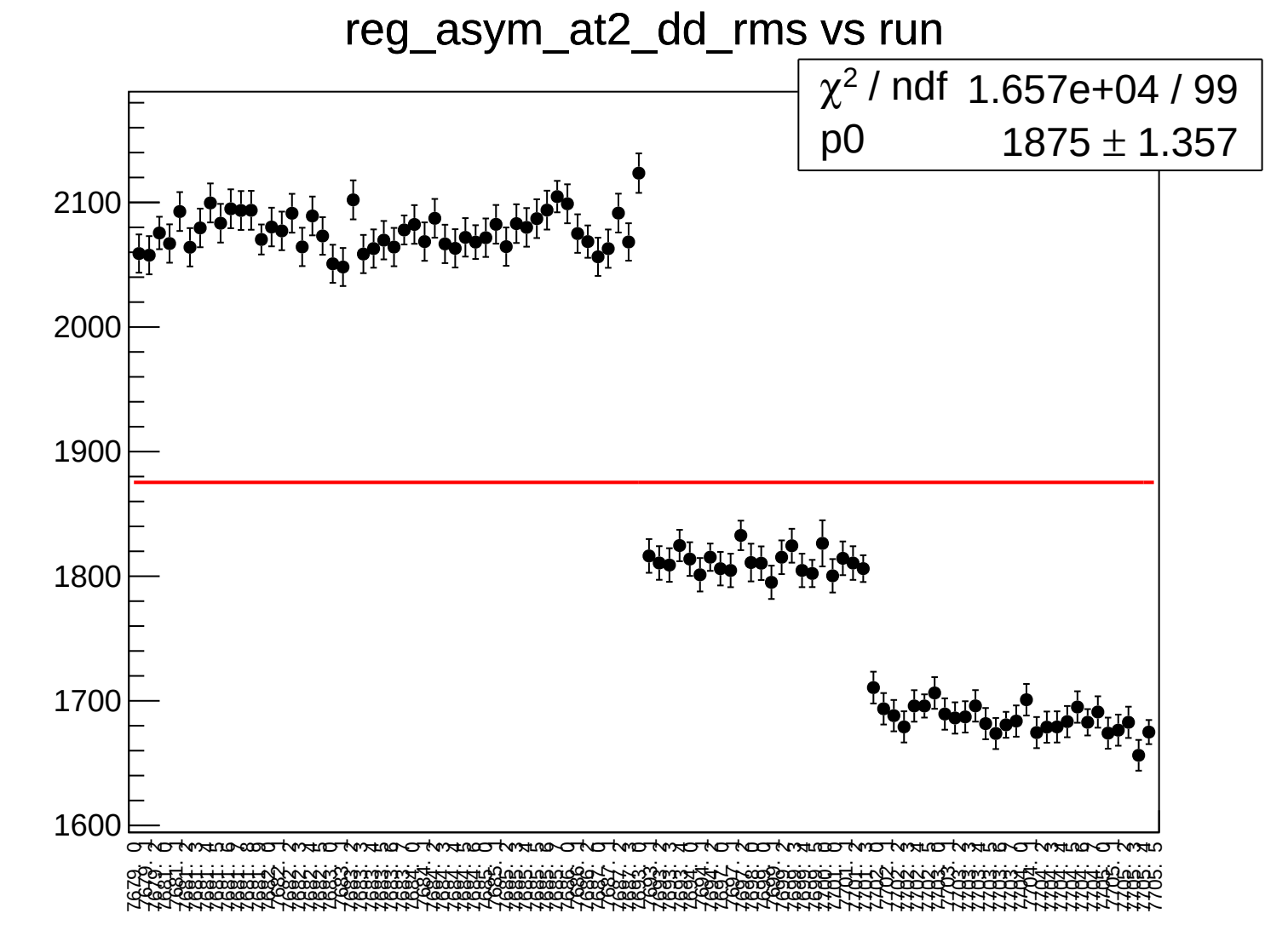

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.328e+05 / 99
p0 167.6 ± 0.1288
500
400
300
200
100

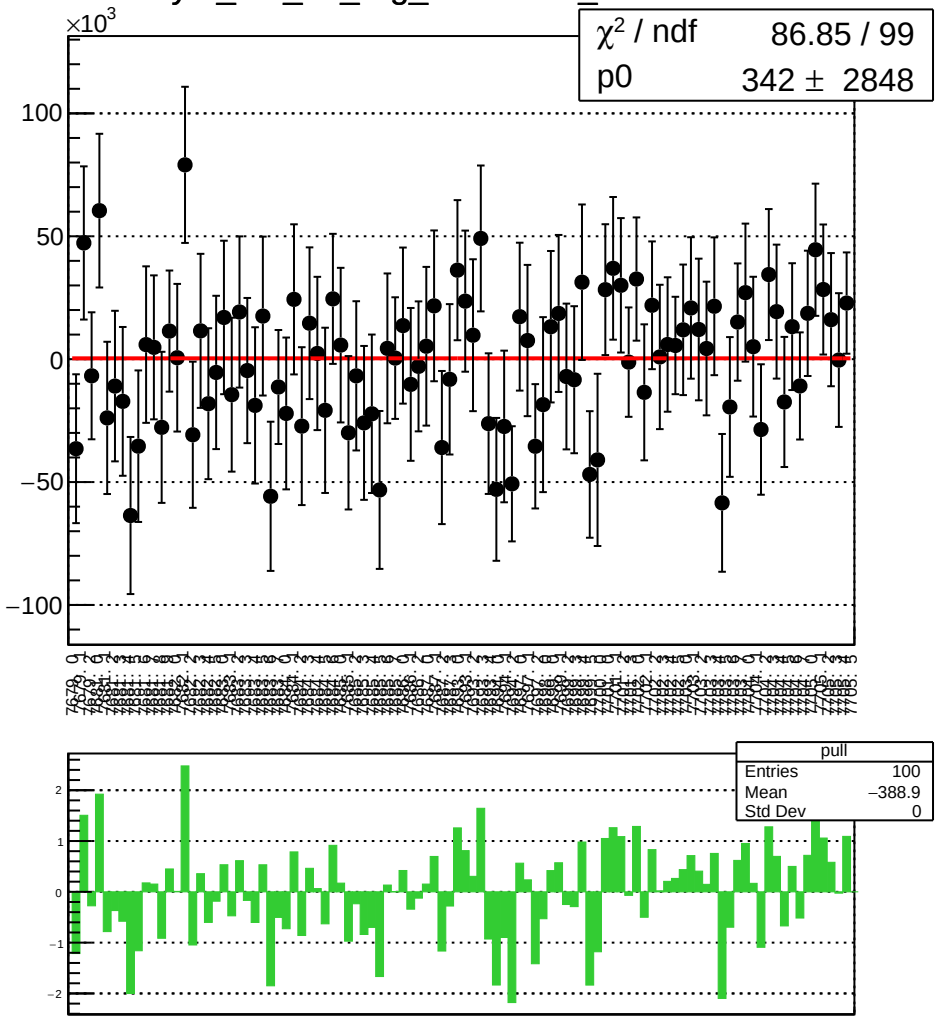

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 118.7 / 99
p0 −1.301e−13 ± 4.714e−13
pull
Entries 100
Mean 82.46
Std Dev 0
pull1D
Entries 100
Mean −0.1344
Std Dev 1.081

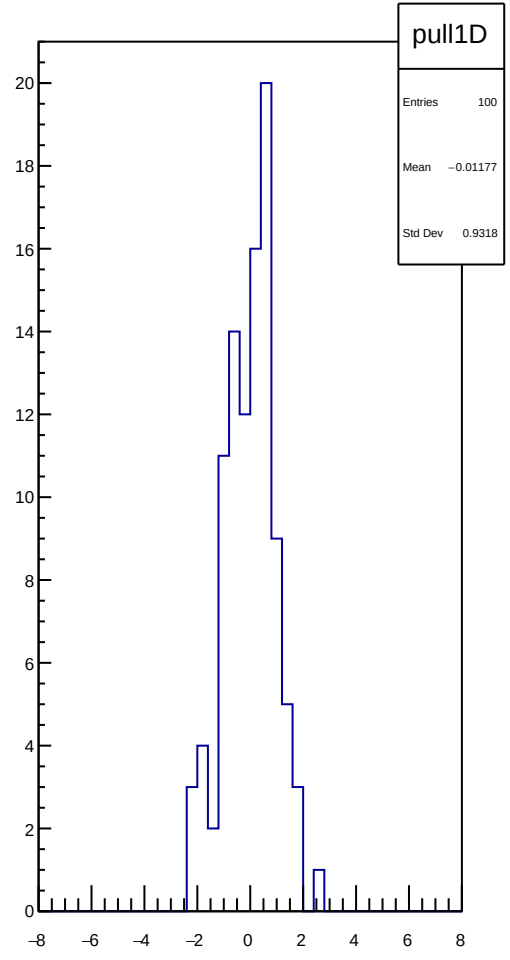

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.011e+06 / 99
p0 3.188e−10 ± 3.334e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

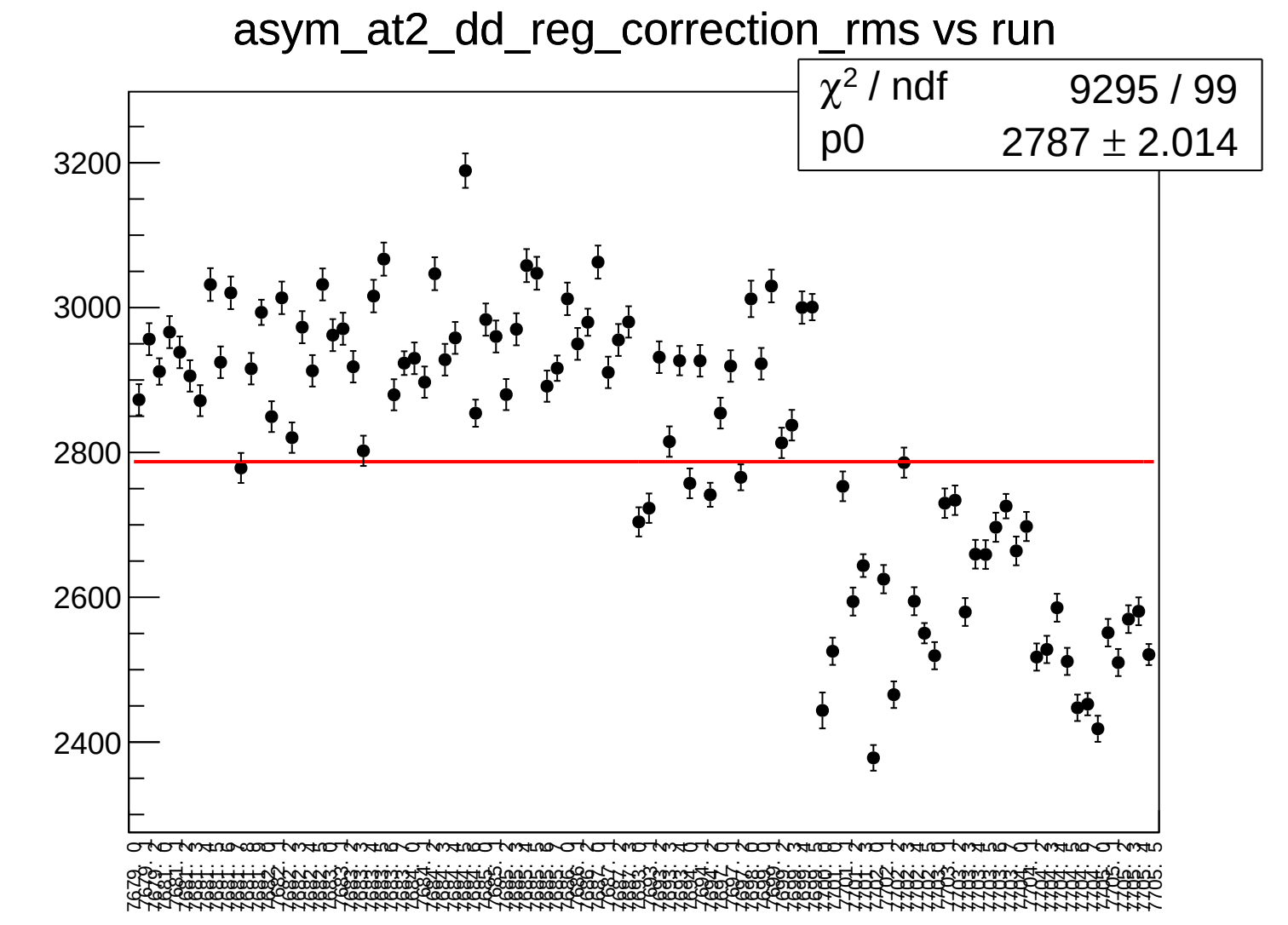

reg_asym_at2_dd_mean vs run
χ² / ndf 79.67 / 99
p0 −375.7 ± 1920
pull
Entries 100
Mean −16.01
Std Dev 0

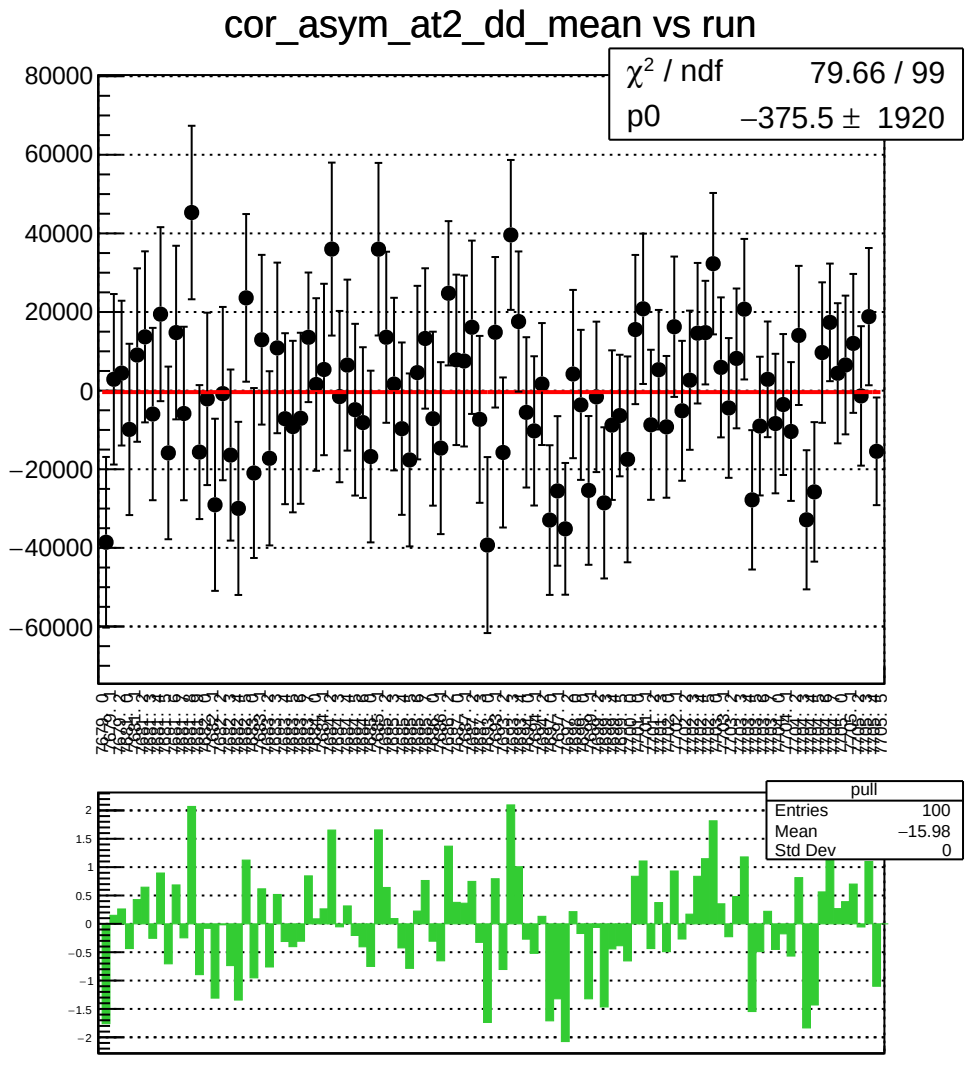

pull1D
Entries 100
Mean −0.008916
Std Dev 0.8925

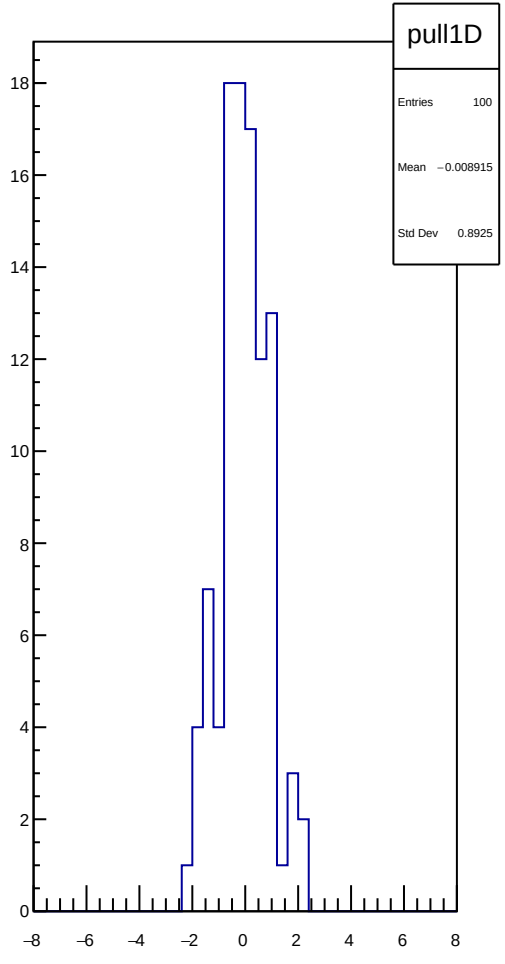

reg_asym_at2_dd_rms vs run
χ² / ndf 1.657e+04 / 99
p0 1875 ± 1.357
2100
2000
1900
1800
1700
1600

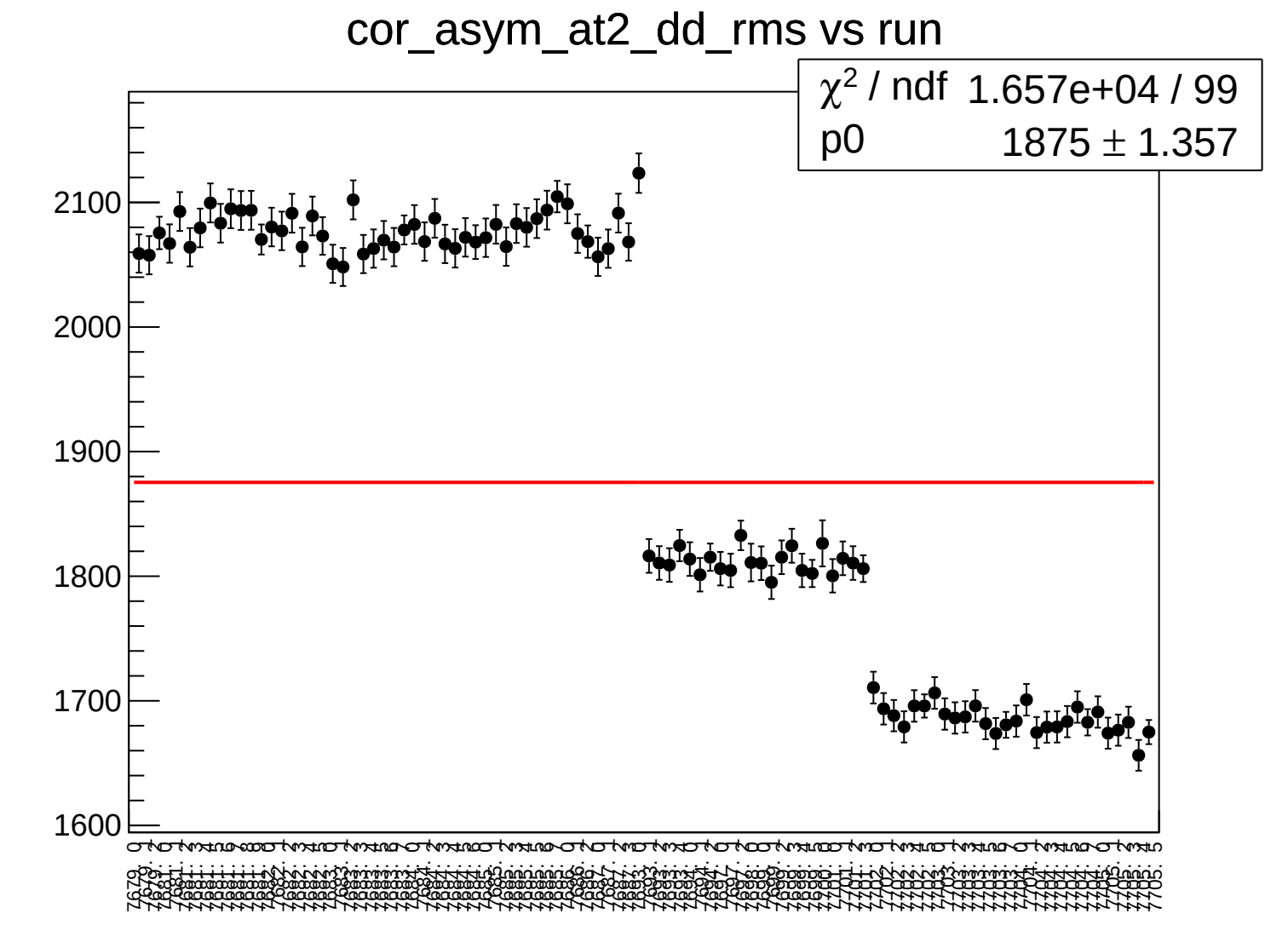

asym_at2_dd_reg_correction_mean vs run
χ² / ndf 86.85 / 99
p0 342 ± 2848
×10³
100
50
0
−50
−100
pull
Entries 100
Mean −388.9
Std Dev 0
2
1
0
−1
−2

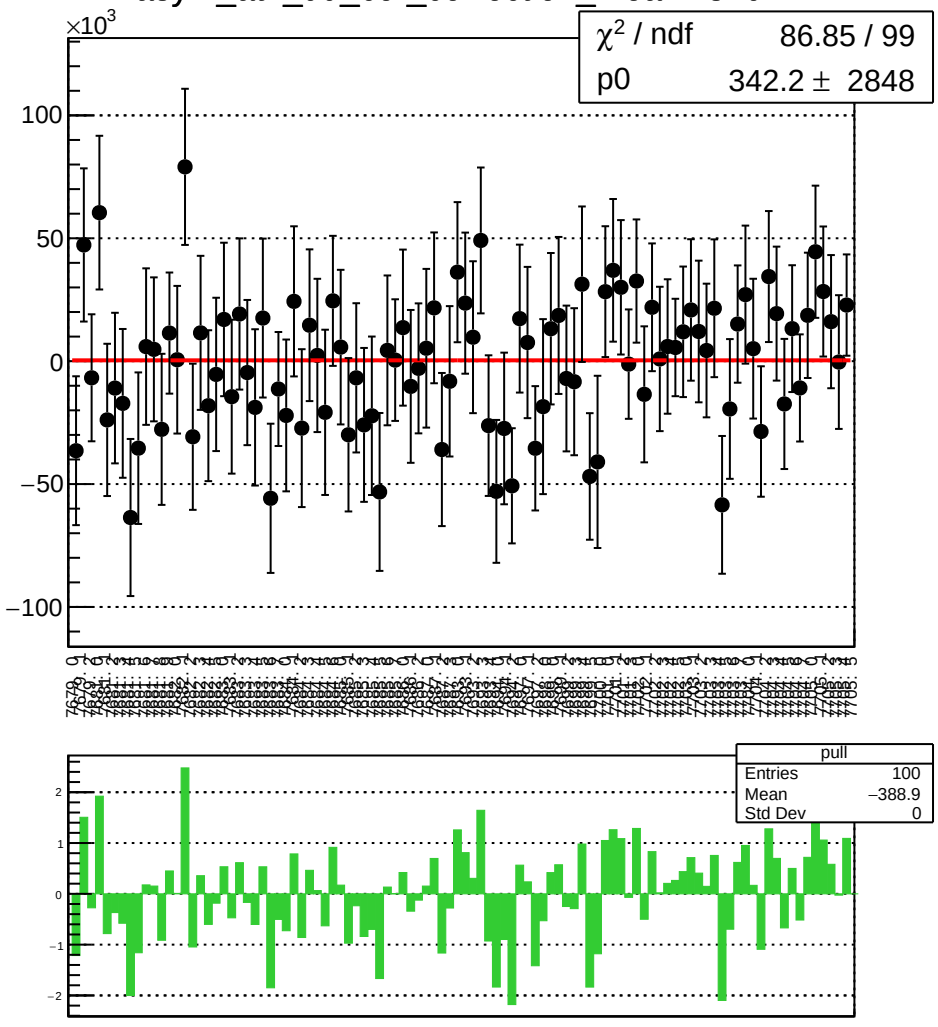

pull1D
Entries 100
Mean −0.01177
Std Dev 0.9318
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

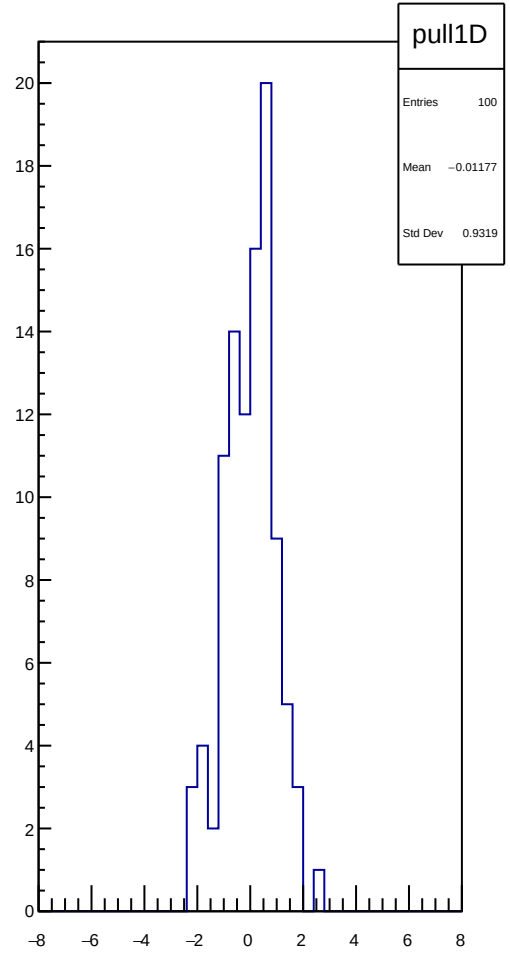

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 9295 / 99
p0 2787 ± 2.014
3200
3000
2800
2600
2400

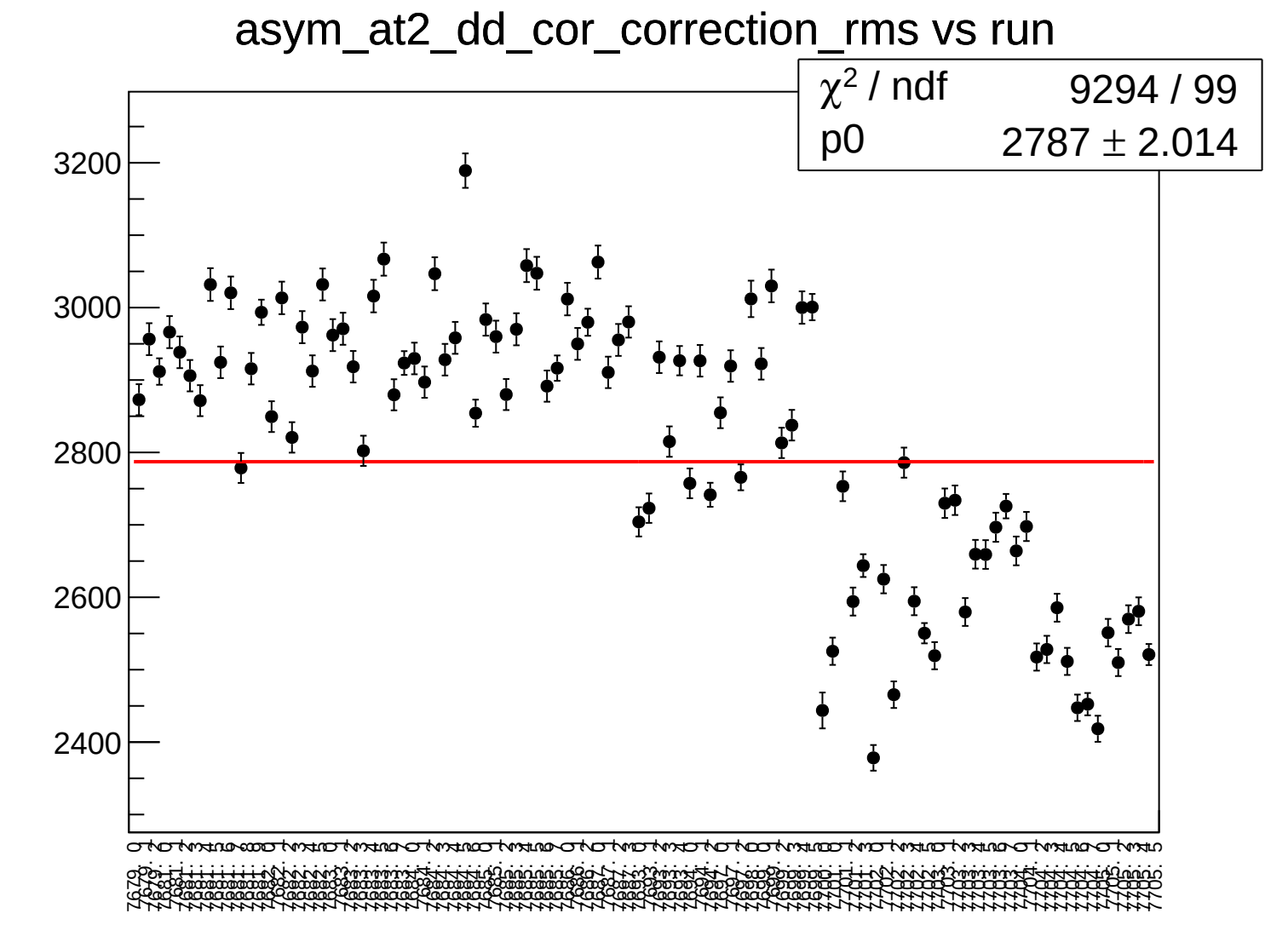

cor_asym_at2_dd_mean vs run
χ² / ndf 79.66 / 99
p0 −375.5 ± 1920
pull
Entries 100
Mean −15.98
Std Dev 0

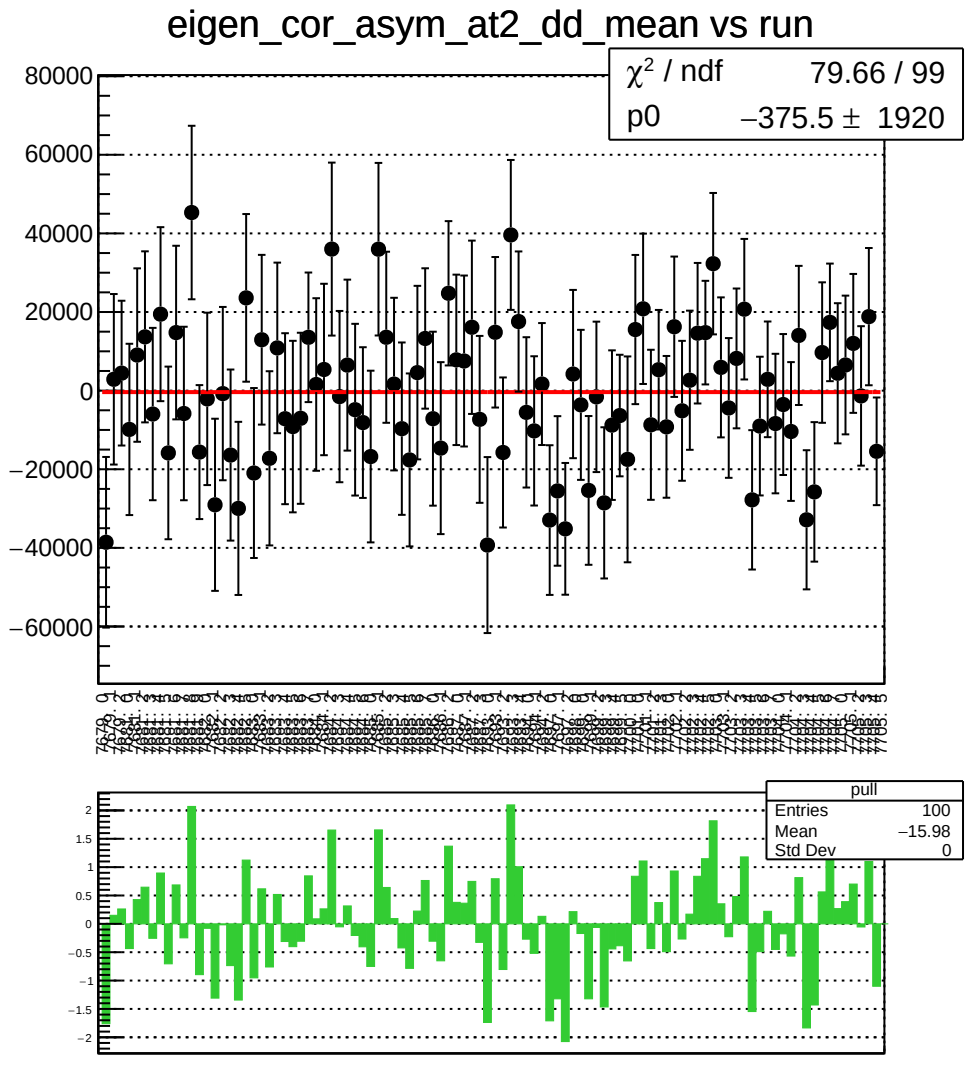

pull1D
Entries 100
Mean −0.008915
Std Dev 0.8925

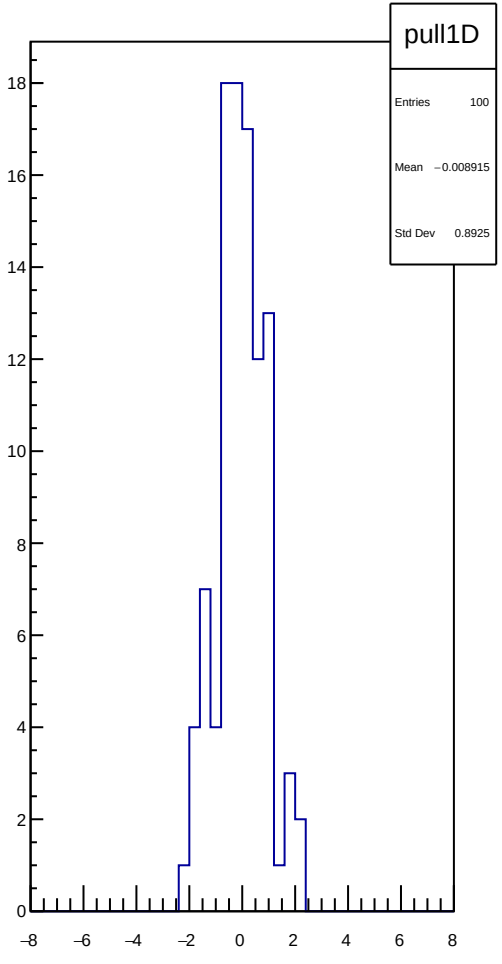

cor_asym_at2_dd_rms vs run
χ² / ndf 1.657e+04 / 99
p0 1875 ± 1.357
2100
2000
1900
1800
1700
1600

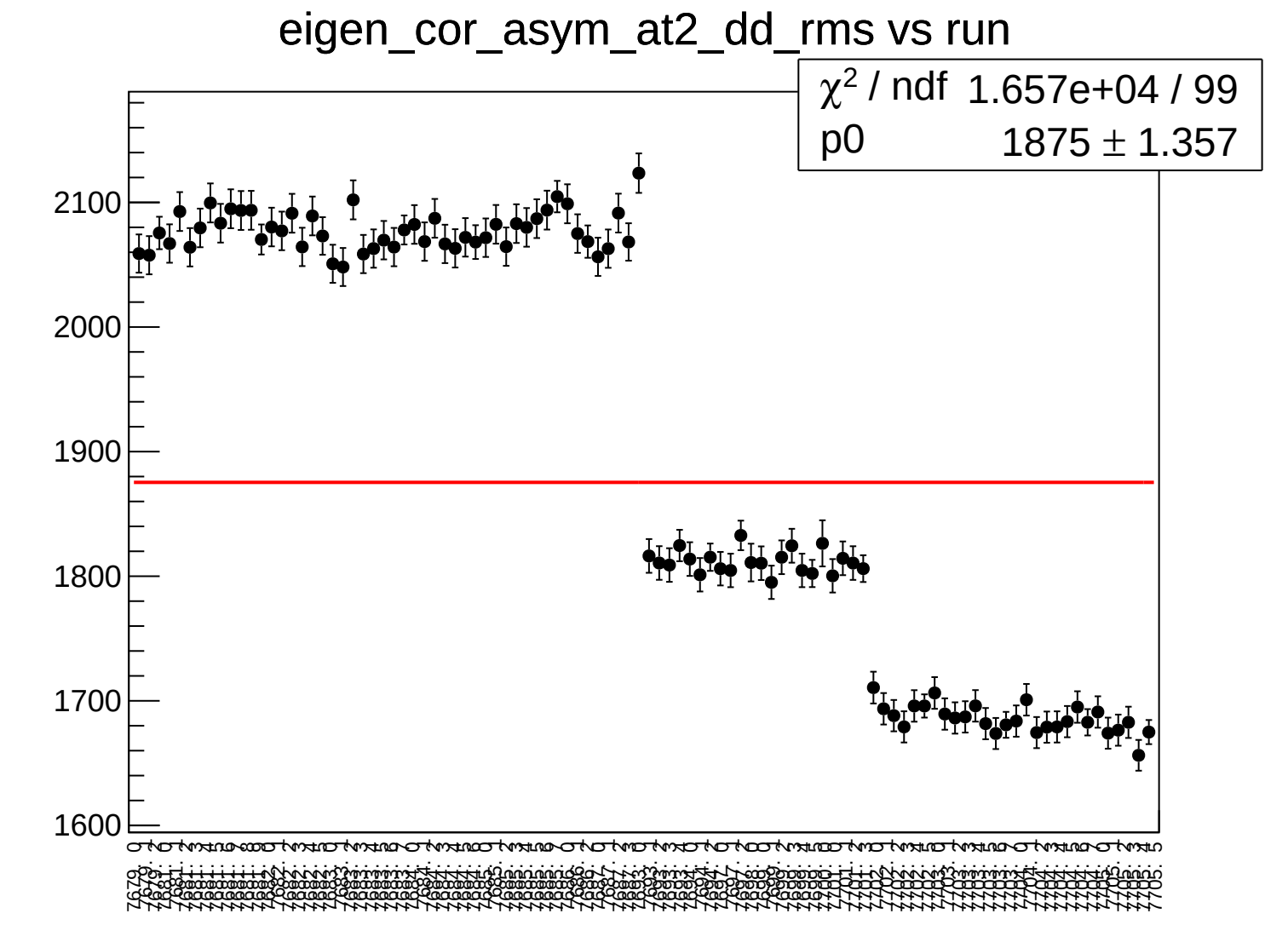

asym_at2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 86.85 / 99
p0 342.2 ± 2848
100
50
0
−50
−100
pull
Entries 100
Mean −388.9
Std Dev 0
2
1
0
−1
−2

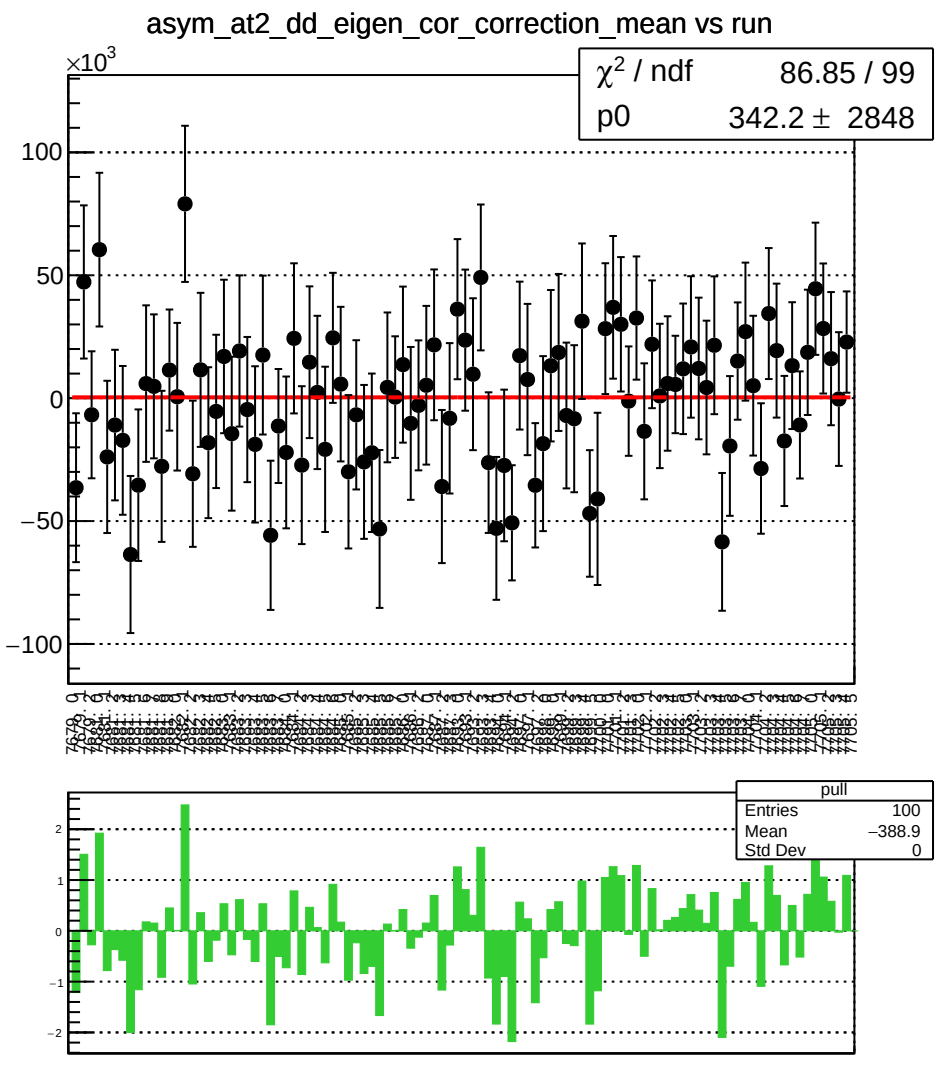

pull1D
Entries 100
Mean −0.01177
Std Dev 0.9319
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

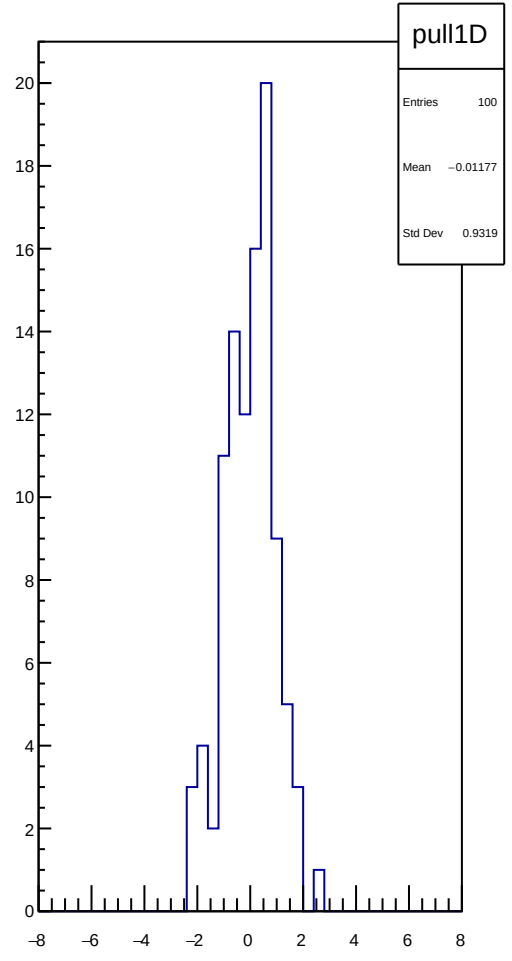

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 9294 / 99
p0 2787 ± 2.014
3200
3000
2800
2600
2400

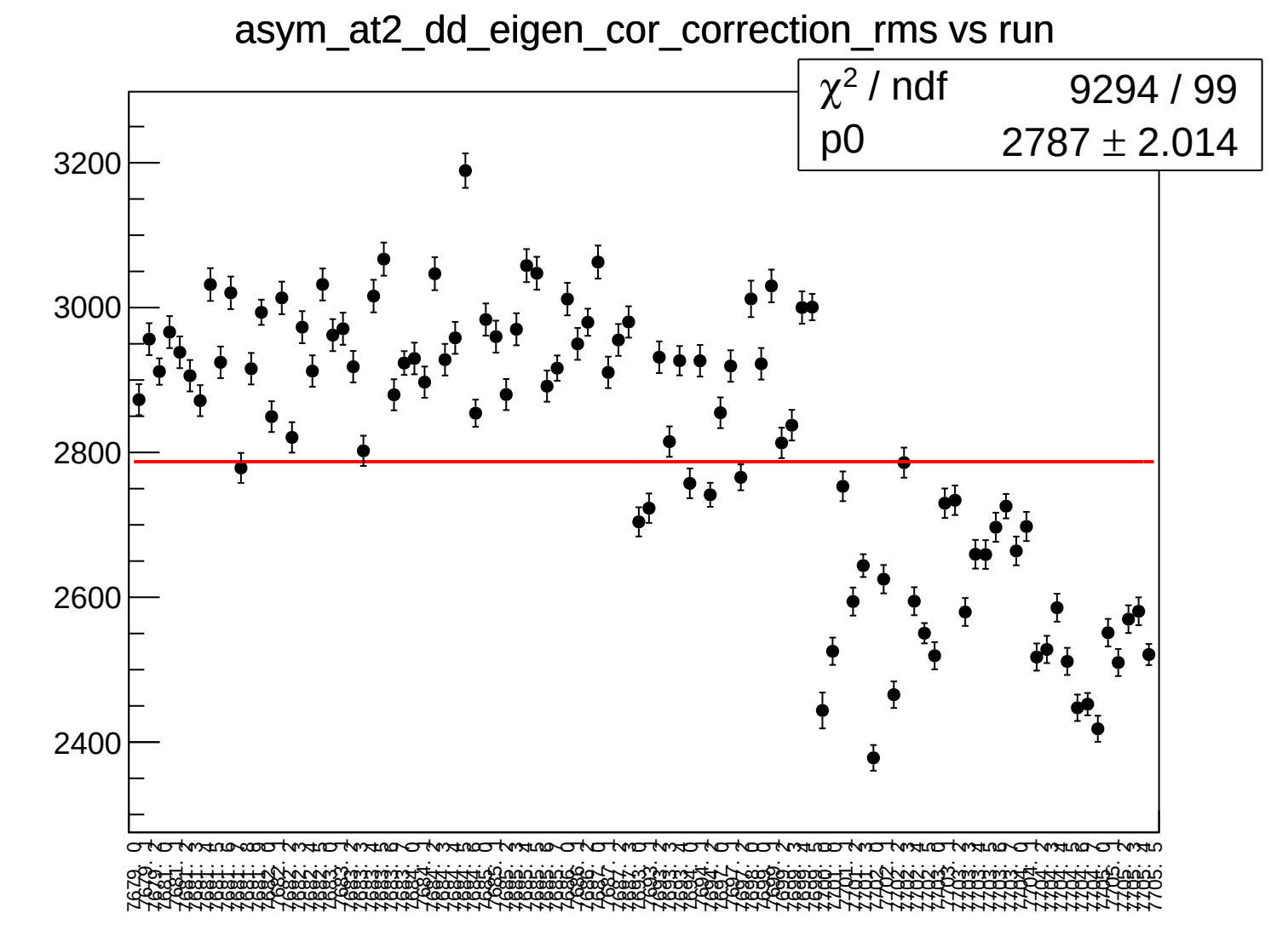

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 79.66 / 99
p0 −375.5 ± 1920
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −15.98
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

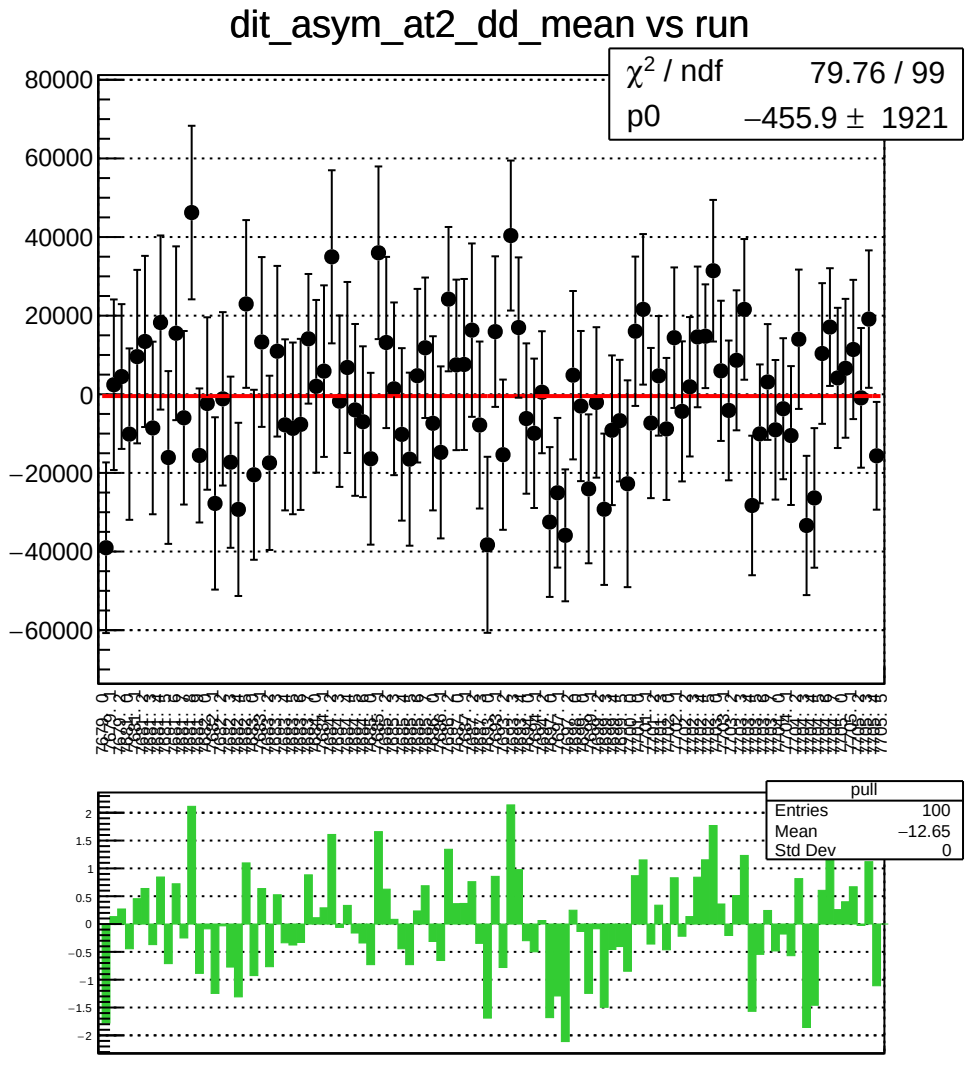

pull1D
Entries 100
Mean −0.008915
Std Dev 0.8925
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

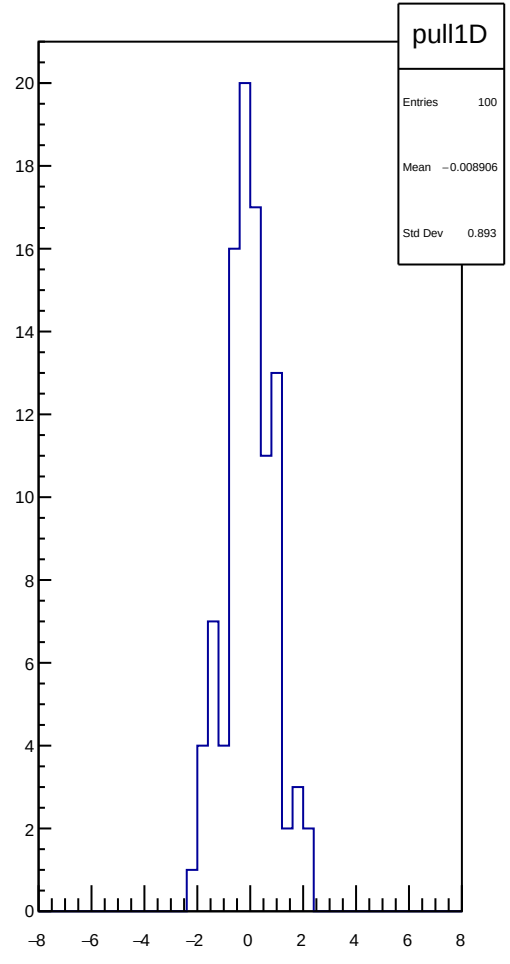

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 1.657e+04 / 99
p0 1875 ± 1.357
2100
2000
1900
1800
1700
1600

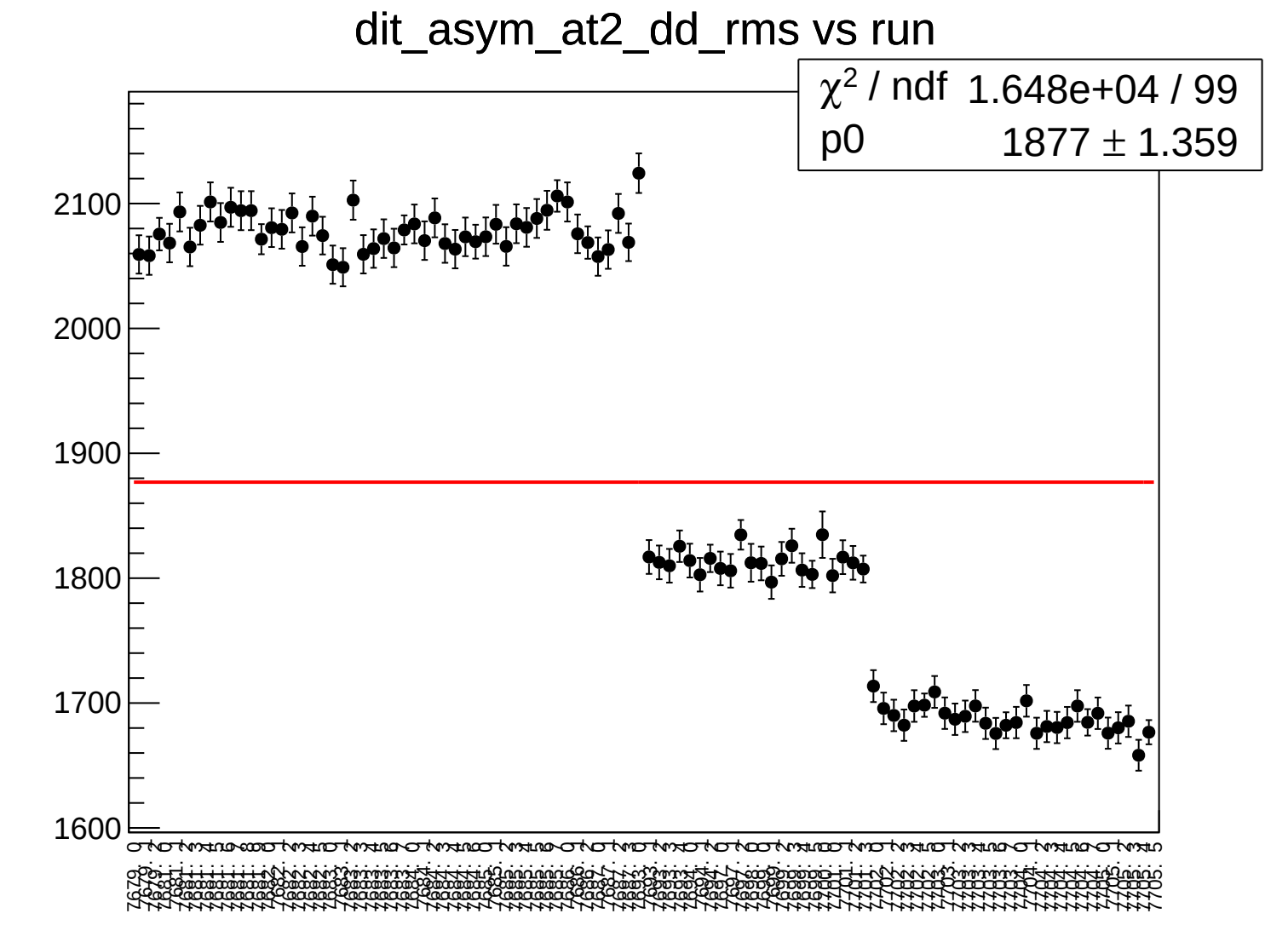

asym_at2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 86.85 / 99
p0 342.2 ± 2848
100
50
0
−50
−100
pull
Entries 100
Mean −388.9
Std Dev 0
2
1
0
−1
−2

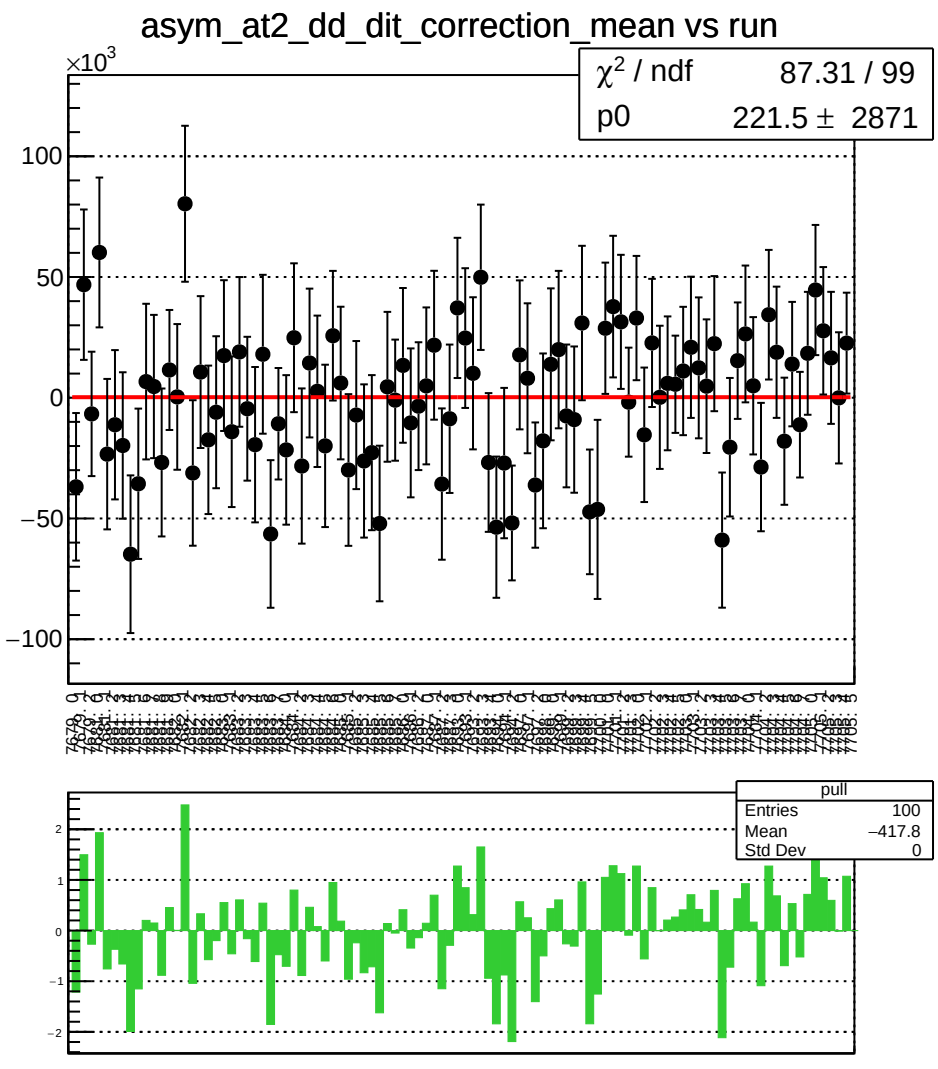

pull1D
Entries 100
Mean −0.01177
Std Dev 0.9319
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

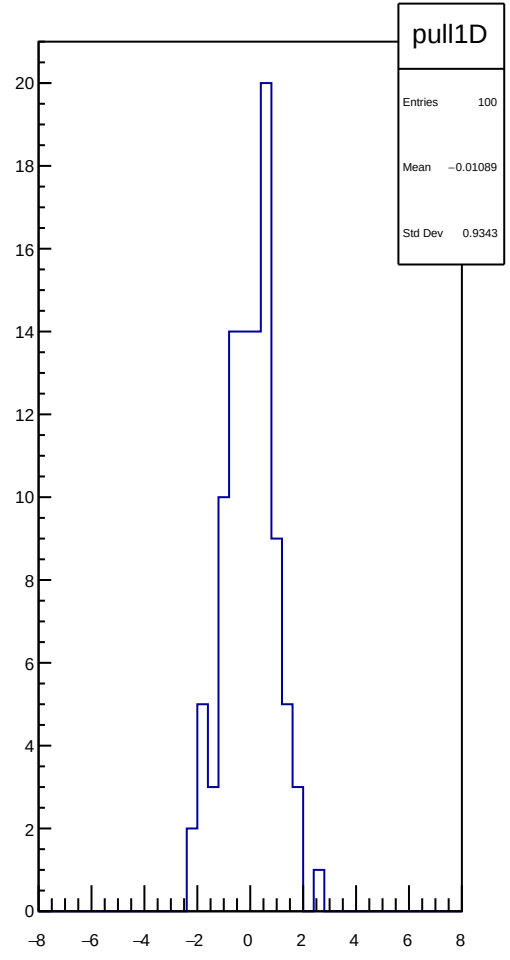

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 9294 / 99
p0 2787 ± 2.014
3200
3000
2800
2600
2400

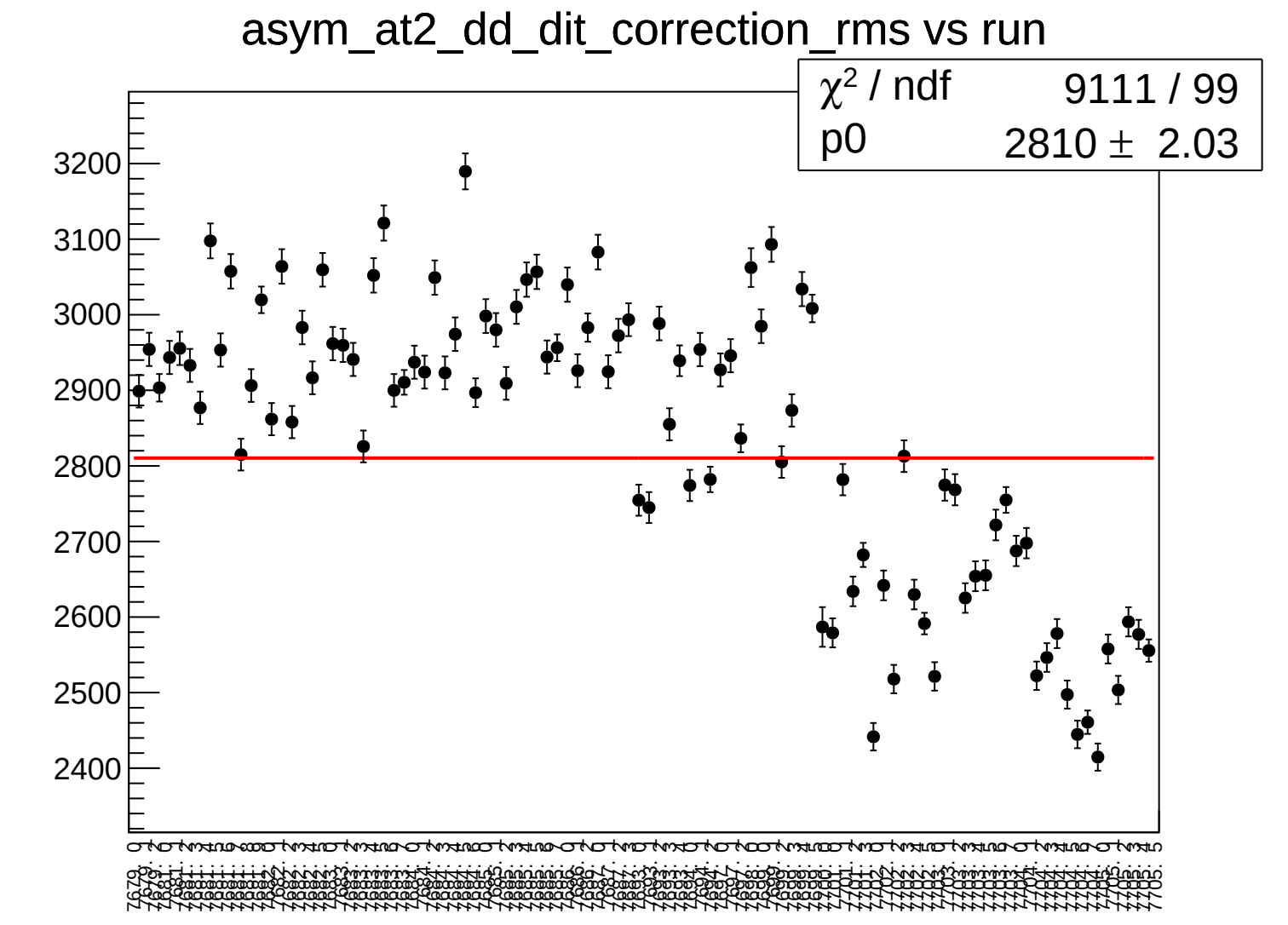

dit_asym_at2_dd_mean vs run
χ² / ndf 79.76 / 99
p0 −455.9 ± 1921
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −12.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

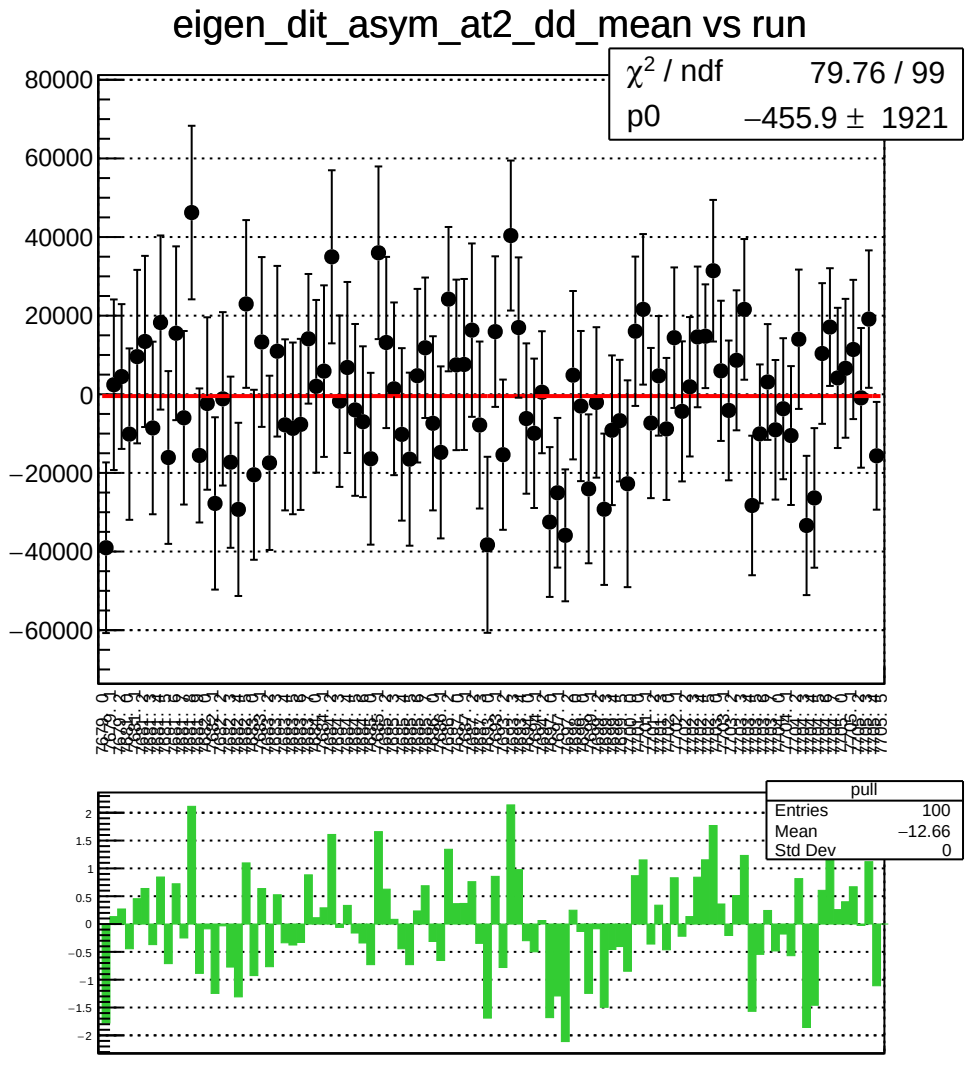

pull1D
Entries 100
Mean −0.008906
Std Dev 0.893
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

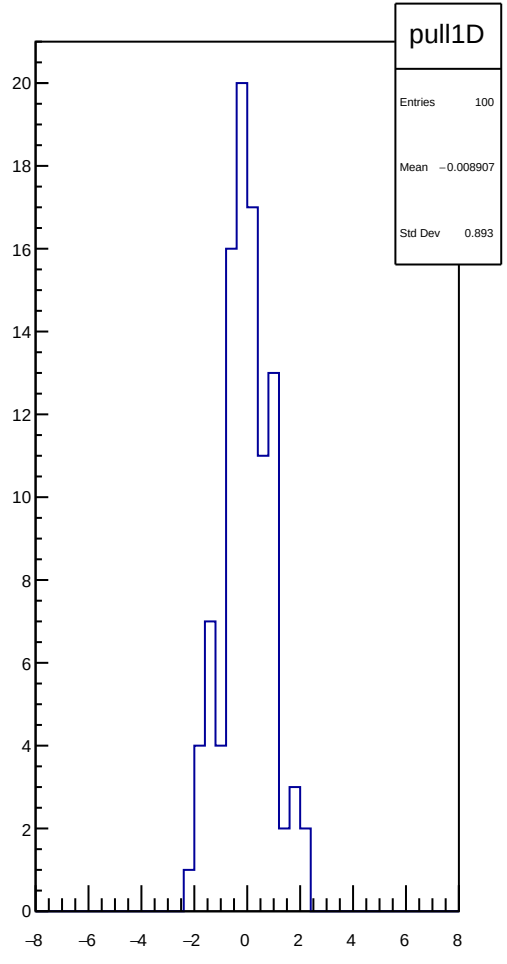

dit_asym_at2_dd_rms vs run
χ² / ndf 1.648e+04 / 99
p0 1877 ± 1.359
2100
2000
1900
1800
1700
1600

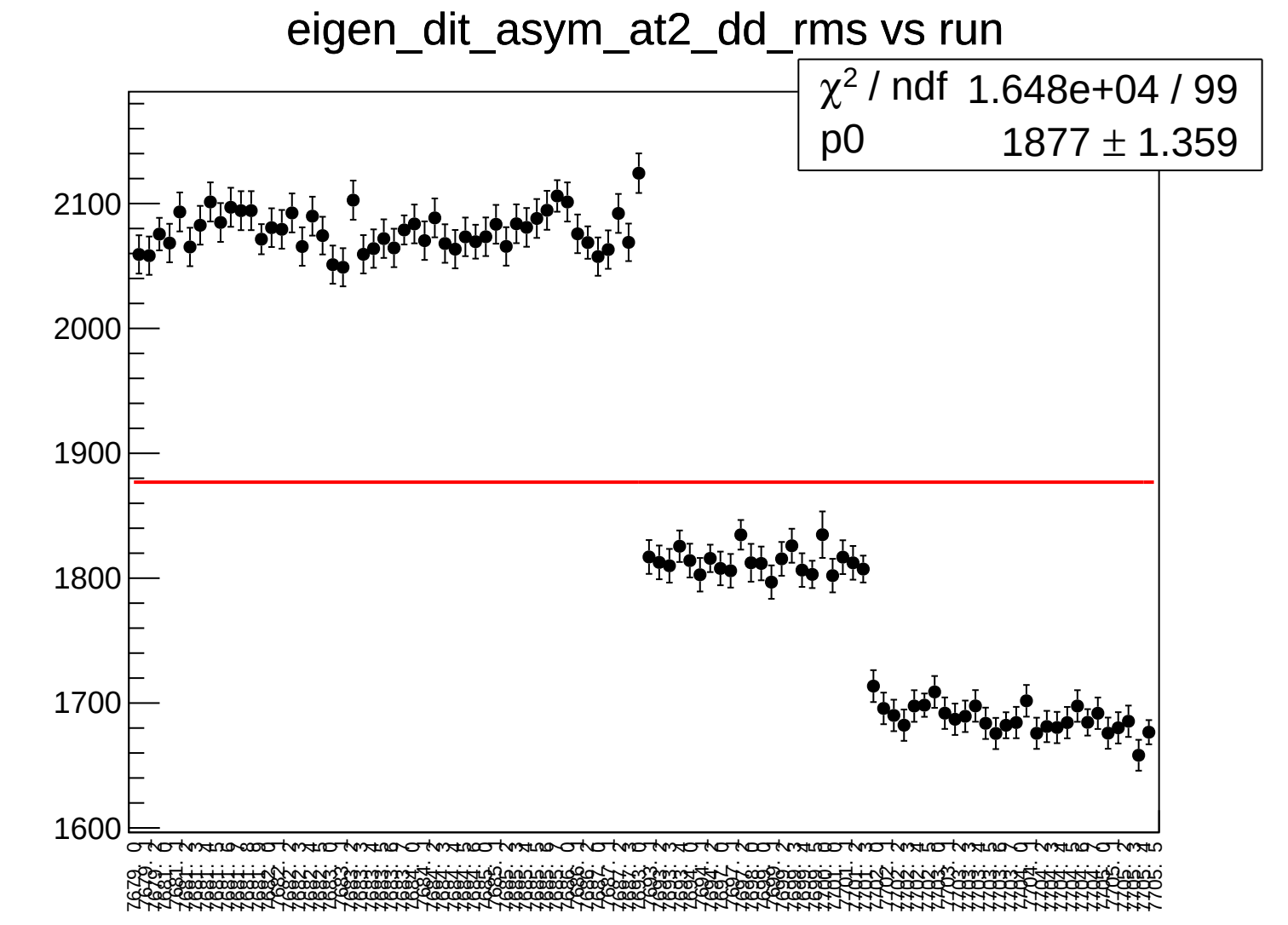

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 87.31 / 99
p0 221.5 ± 2871
×10³
100
50
0
−50
−100
pull
Entries 100
Mean −417.8
Std Dev 0
2
1
0
−1
−2

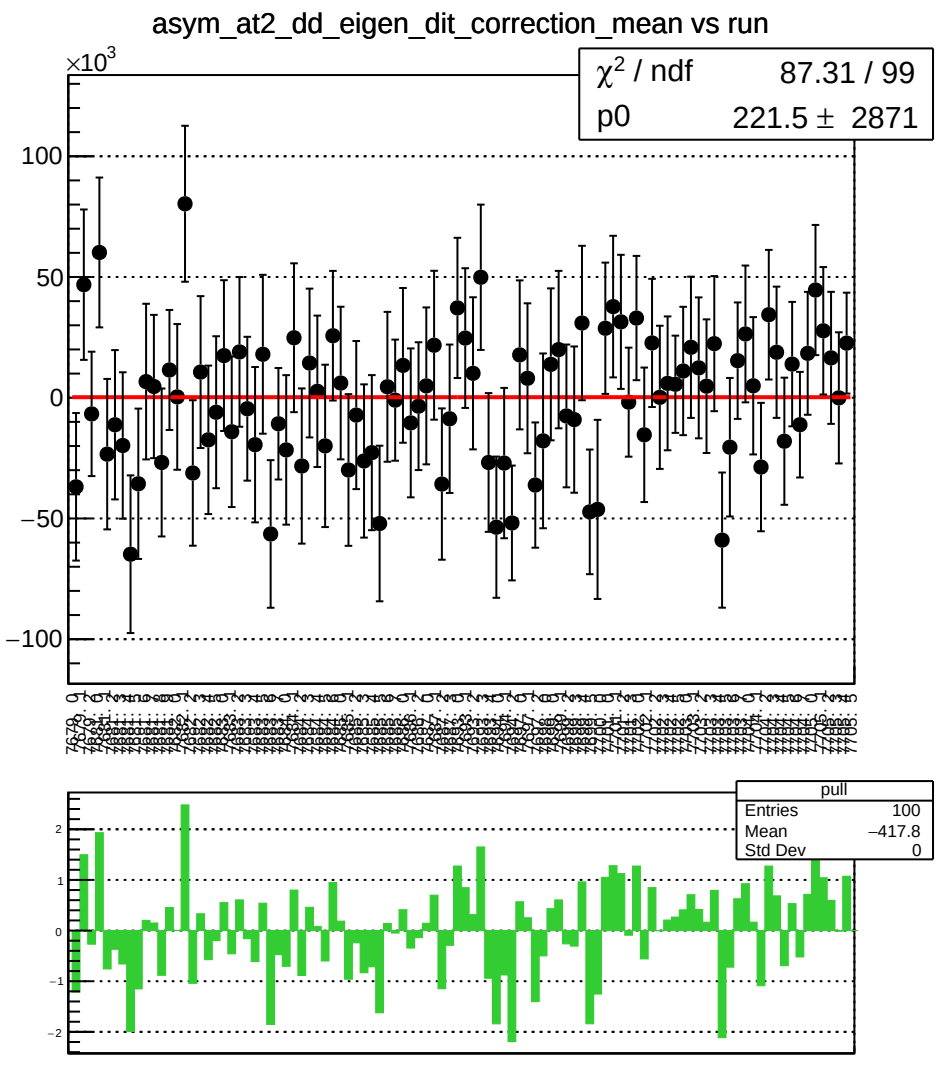

pull1D
Entries 100
Mean −0.01089
Std Dev 0.9343
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

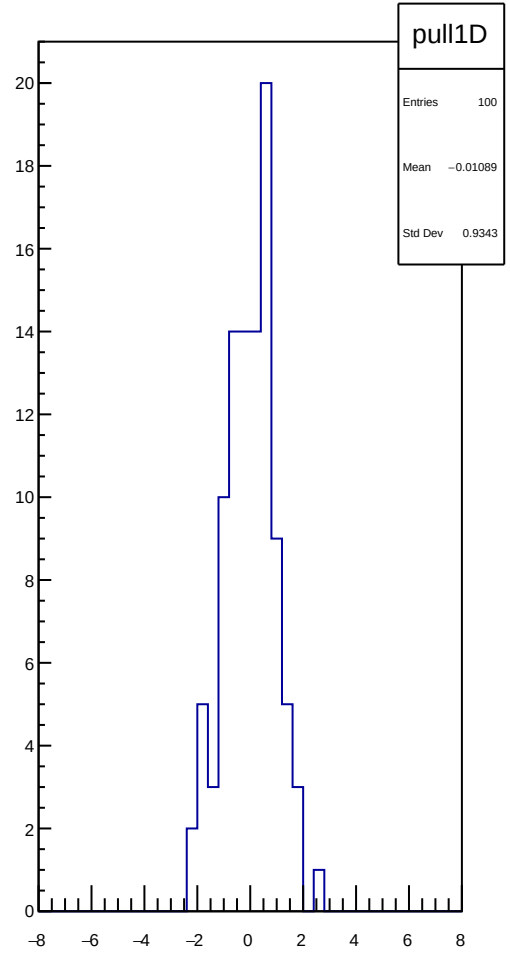

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 9111 / 99
p0 2810 ± 2.03
3200
3100
3000
2900
2800
2700
2600
2500
2400

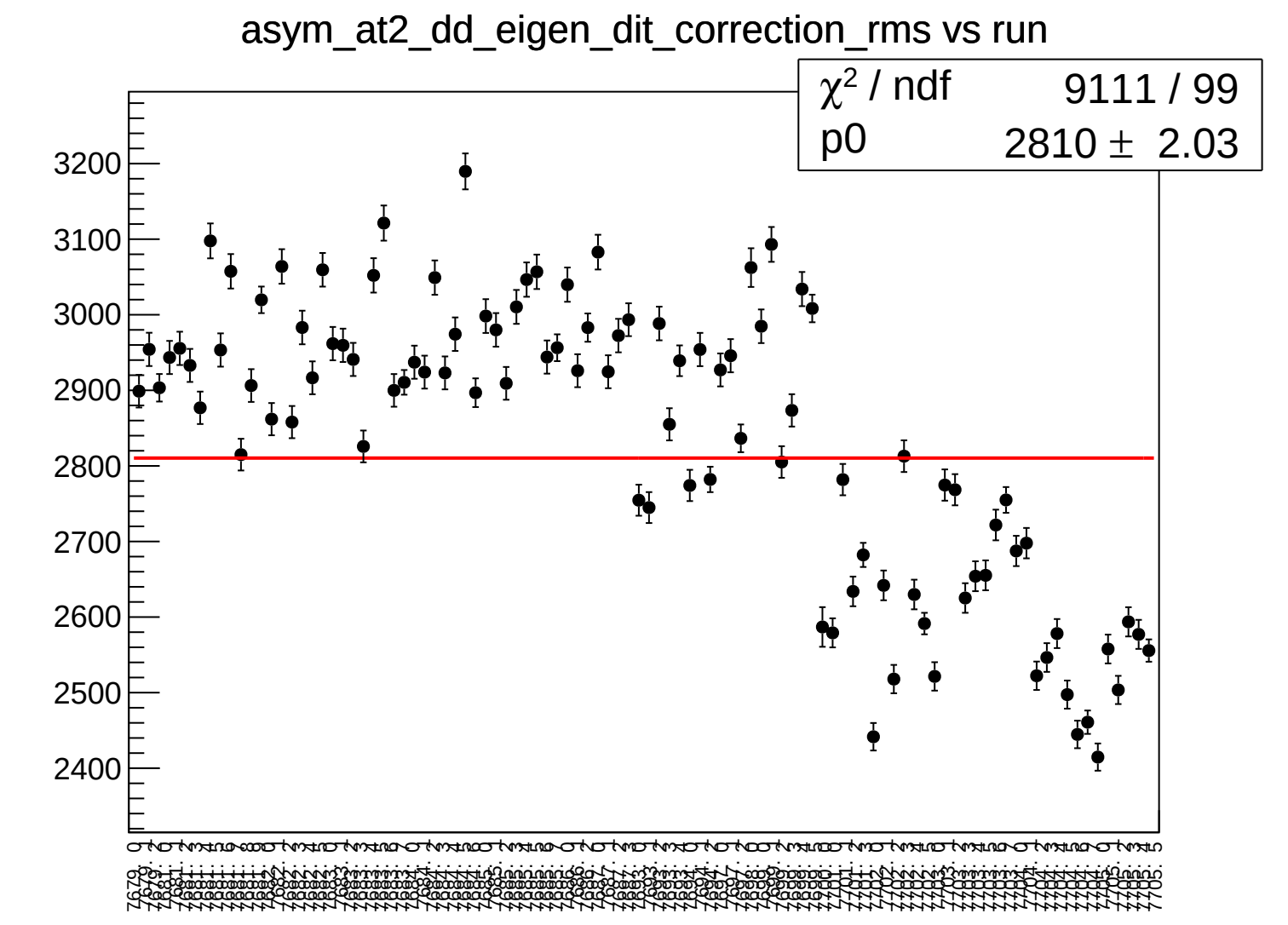

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 79.76 / 99
p0 −455.9 ± 1921
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −12.66
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

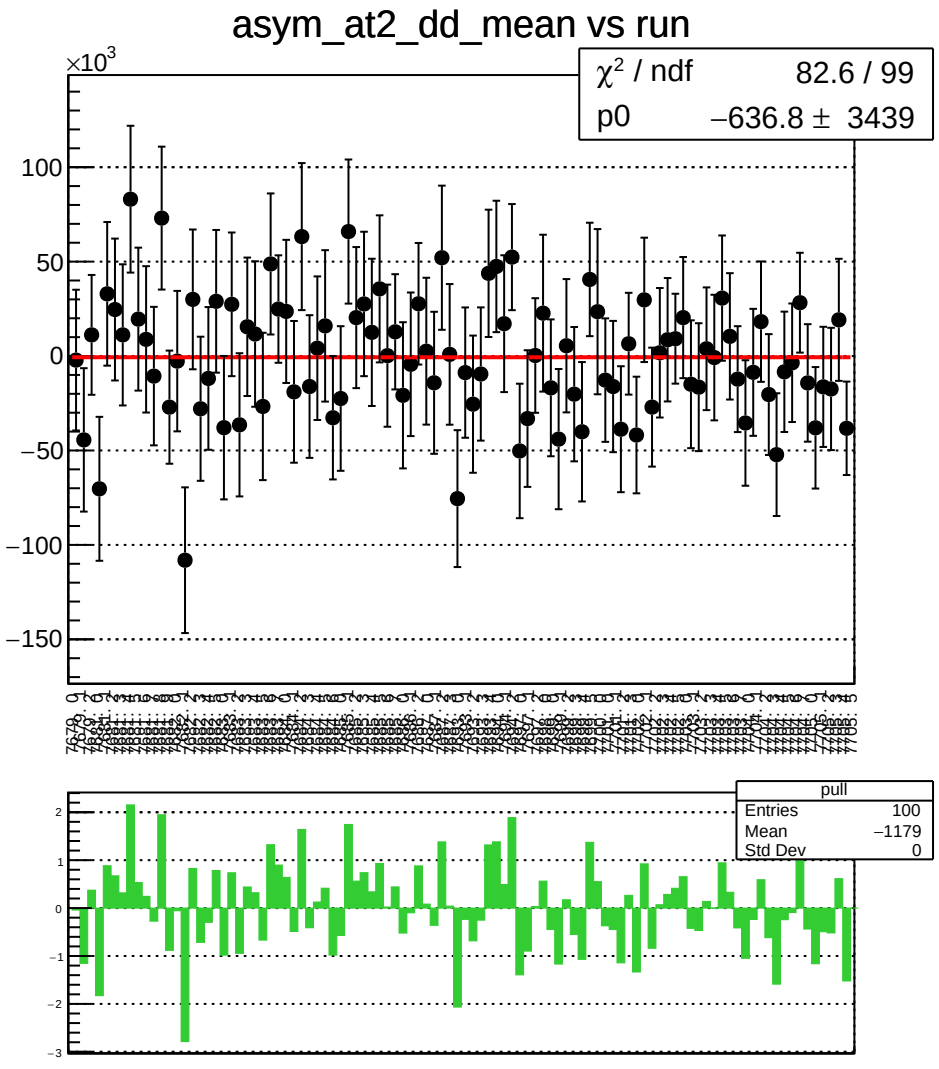

pull1D
Entries 100
Mean −0.008907
Std Dev 0.893
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

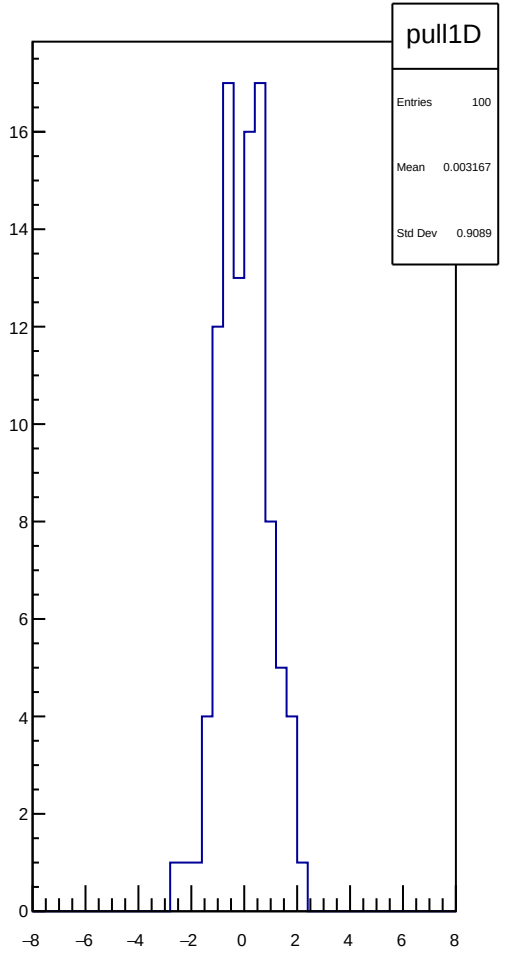

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 1.648e+04 / 99
p0 1877 ± 1.359
2100
2000
1900
1800
1700
1600

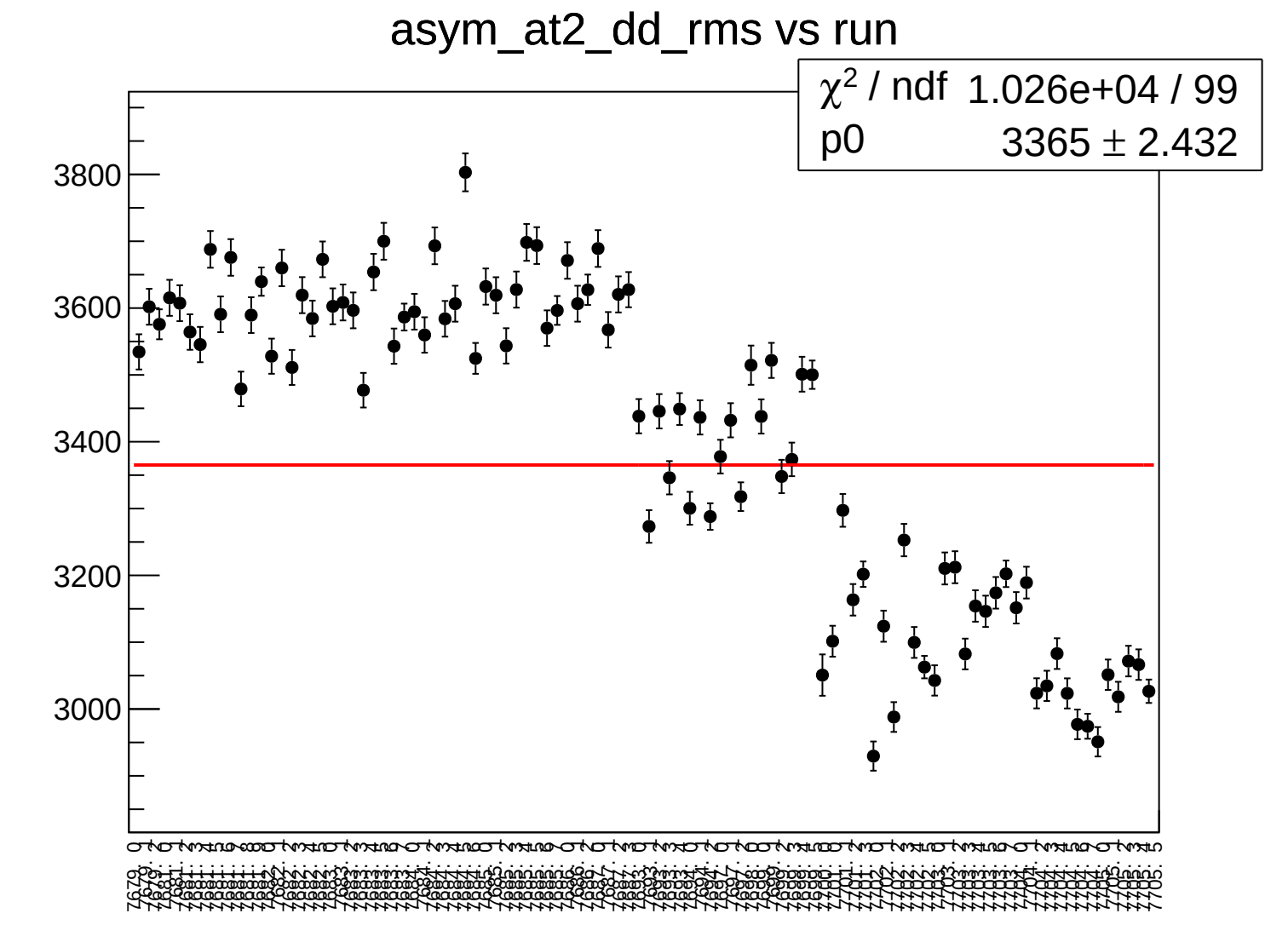

asym_at2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 87.31 / 99
p0 221.5 ± 2871
100
50
0
−50
−100
pull
Entries 100
Mean −417.8
Std Dev 0
2
1
0
−1
−2

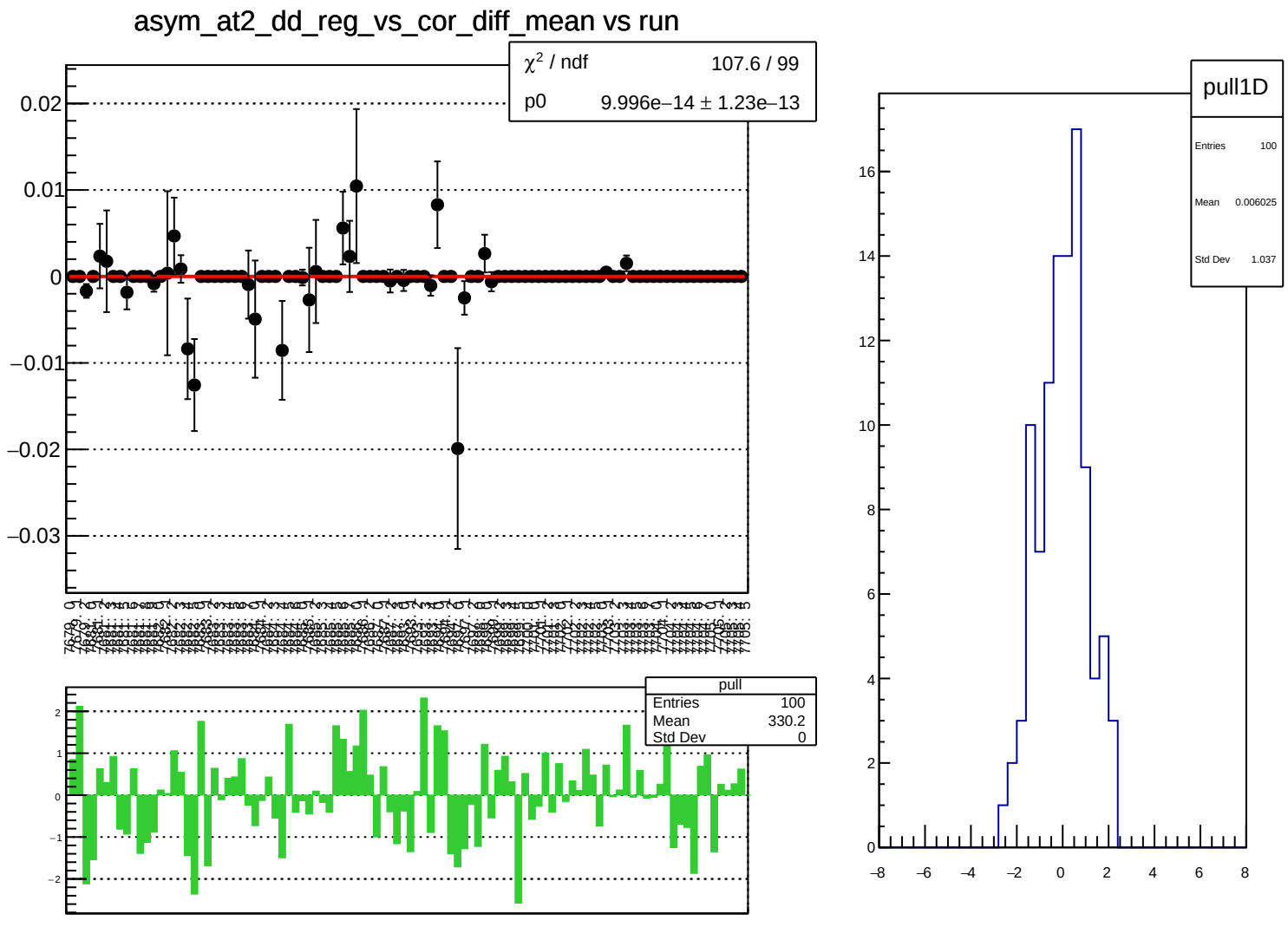

pull1D
Entries 100
Mean −0.01089
Std Dev 0.9343
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

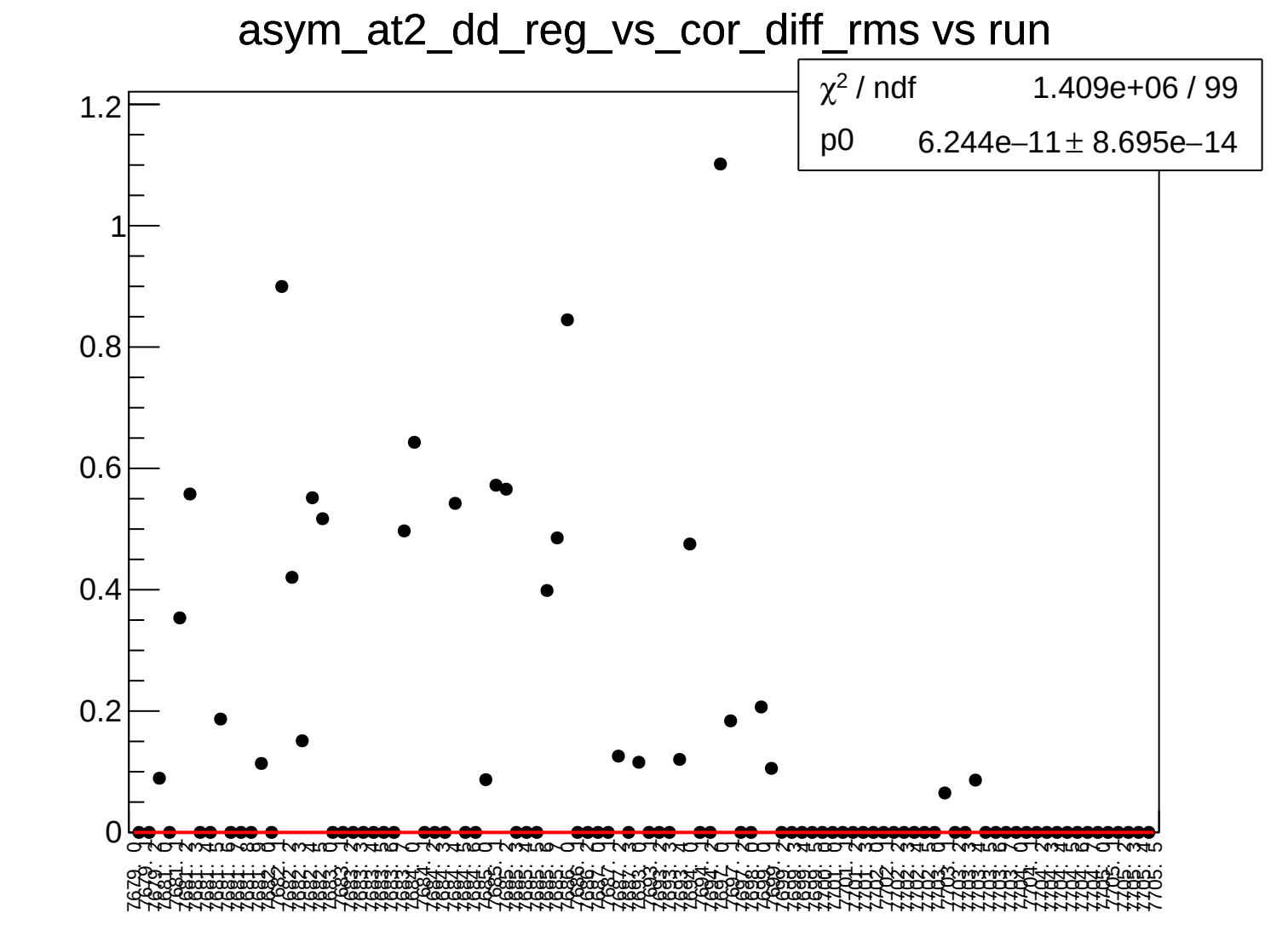

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 9111 / 99
p0 2810 ± 2.03
3200
3100
3000
2900
2800
2700
2600
2500
2400

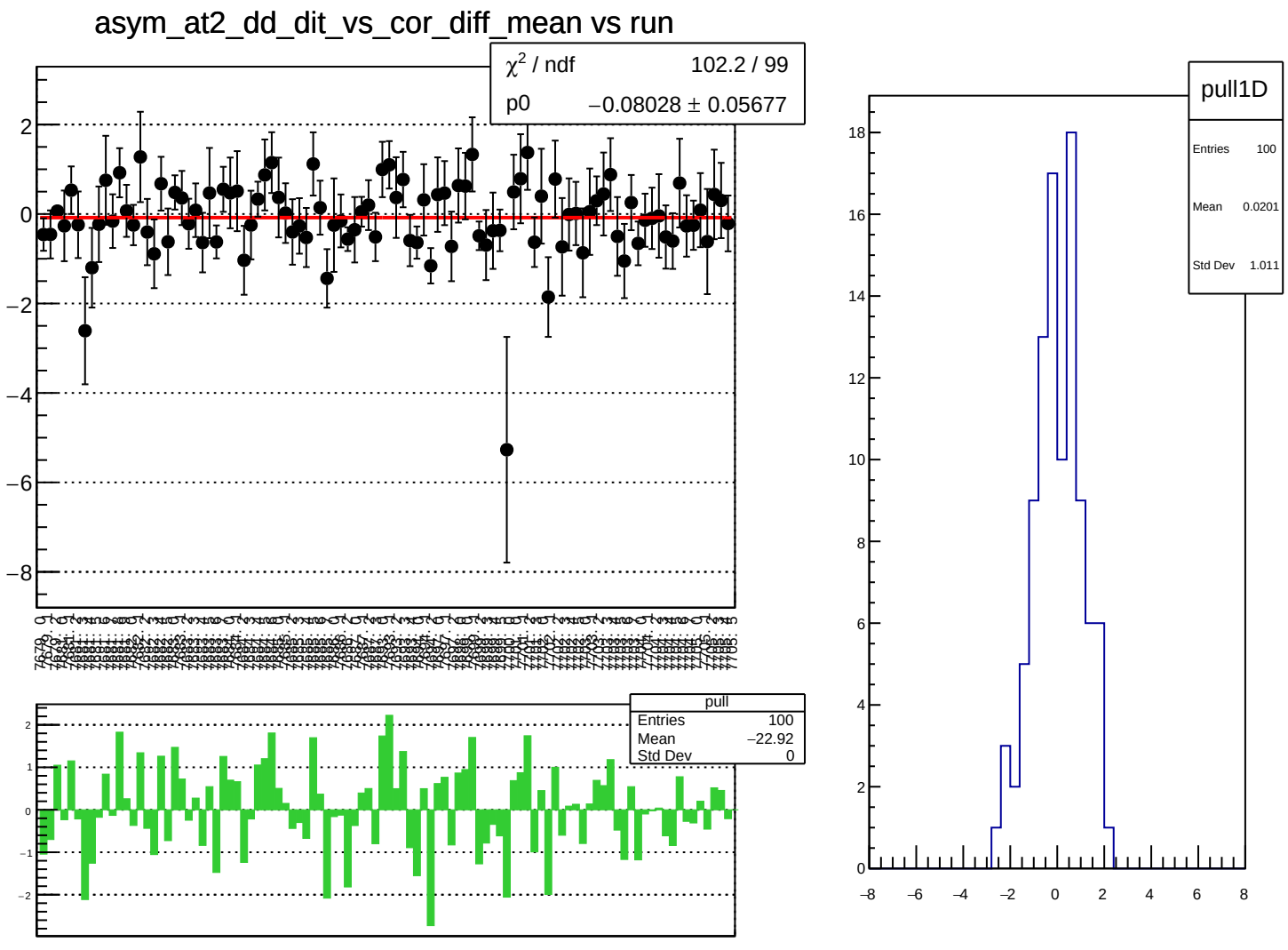

asym_at2_dd_mean vs run
×10^3
χ² / ndf 82.6 / 99
p0 −636.8 ± 3439
100
50
0
−50
−100
−150
pull
Entries 100
Mean −1179
Std Dev 0
2
1
0
−1
−2
−3

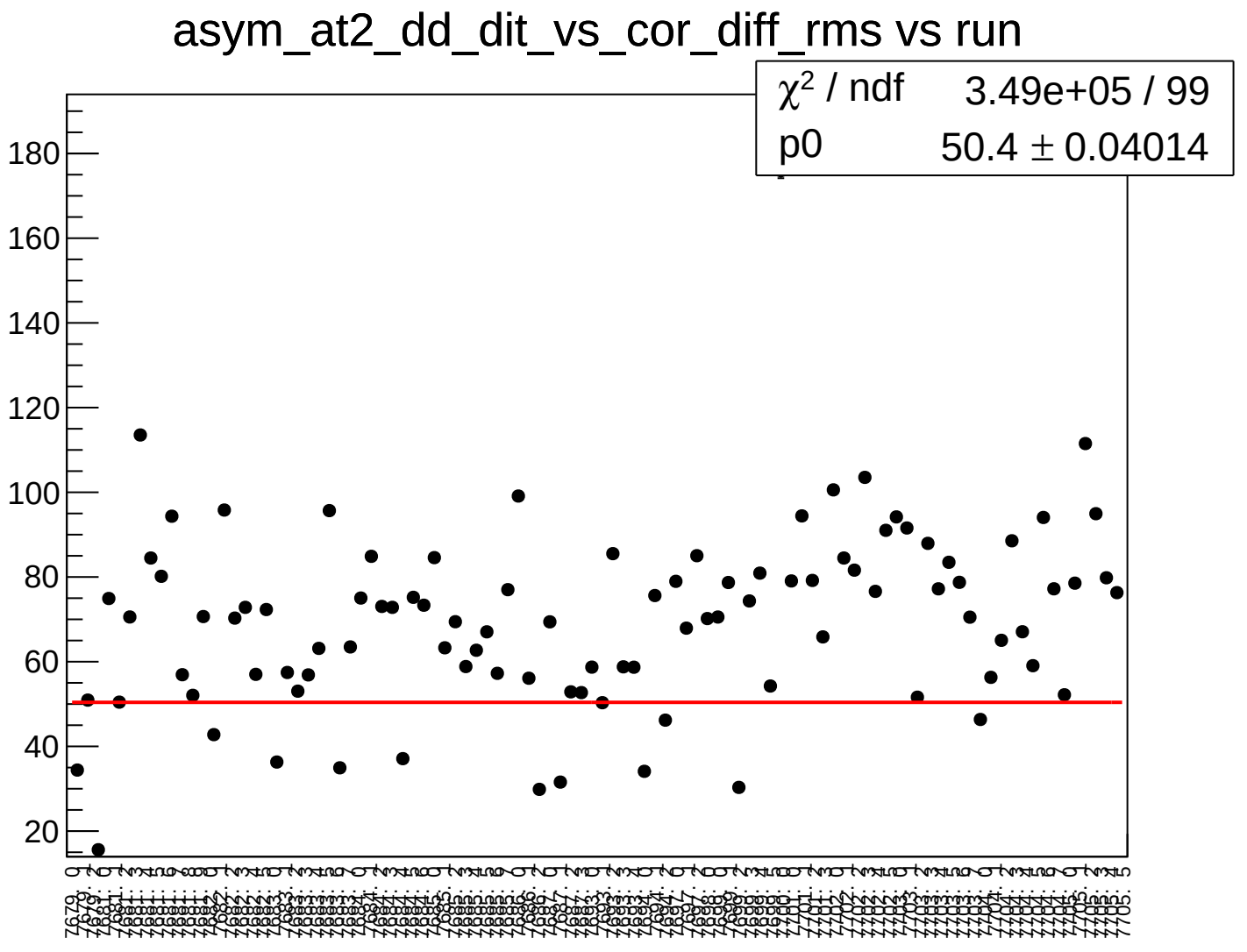

pull1D
Entries 100
Mean 0.003167
Std Dev 0.9089
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

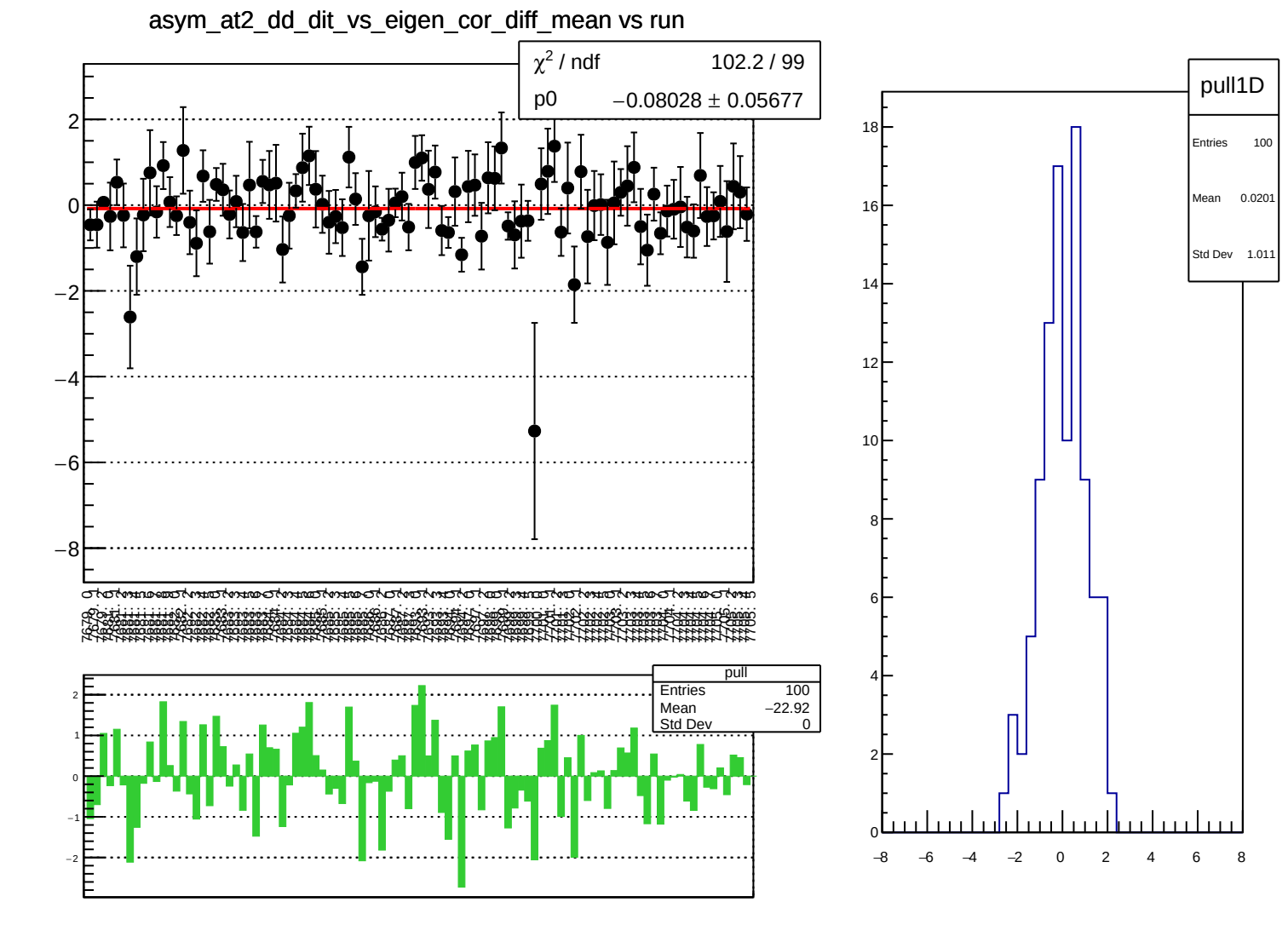

asym_at2_dd_rms vs run
χ² / ndf 1.026e+04 / 99
p0 3365 ± 2.432
3800
3600
3400
3200
3000

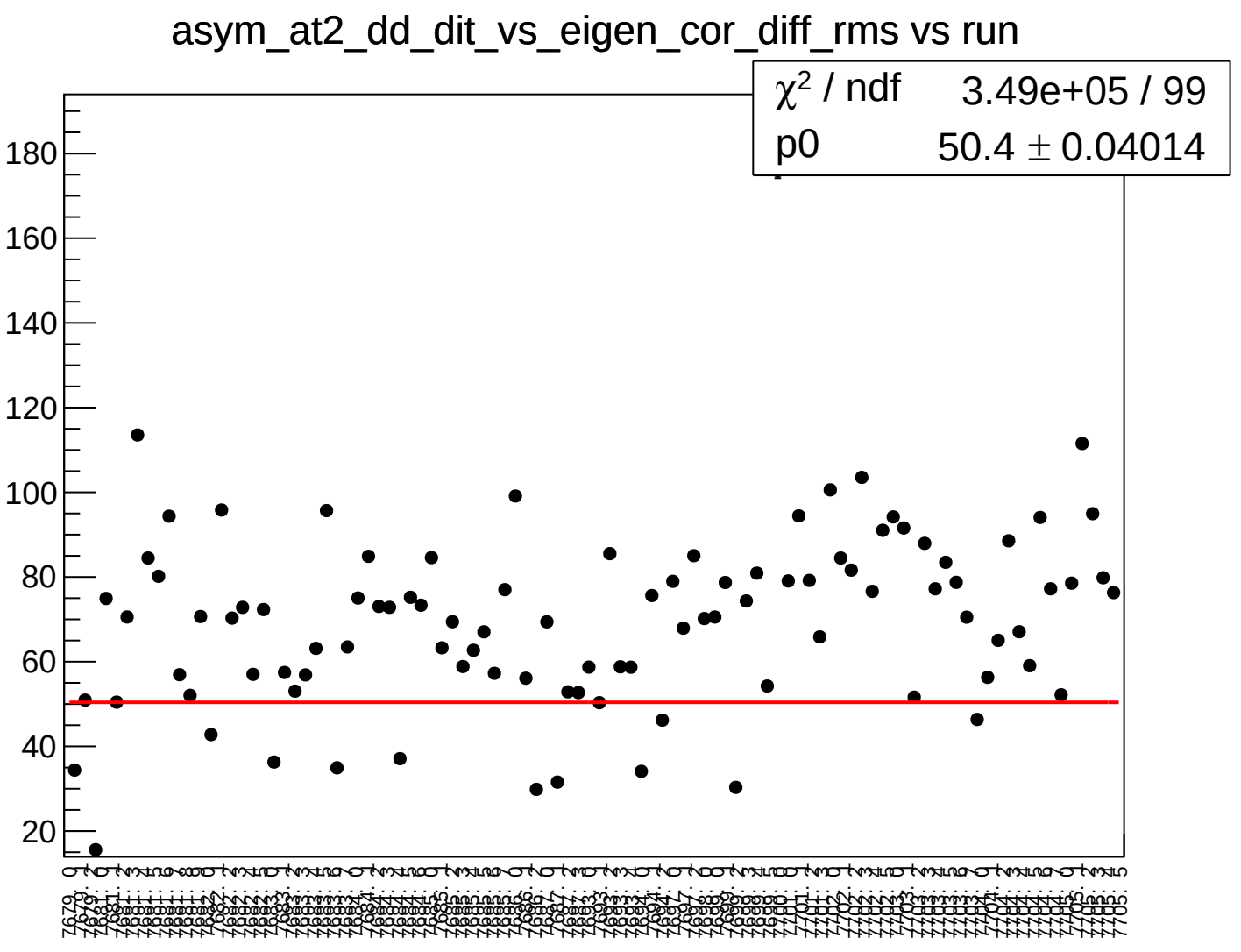

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 107.6 / 99
p0 9.996e−14 ± 1.23e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 100
Mean 330.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.006025
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

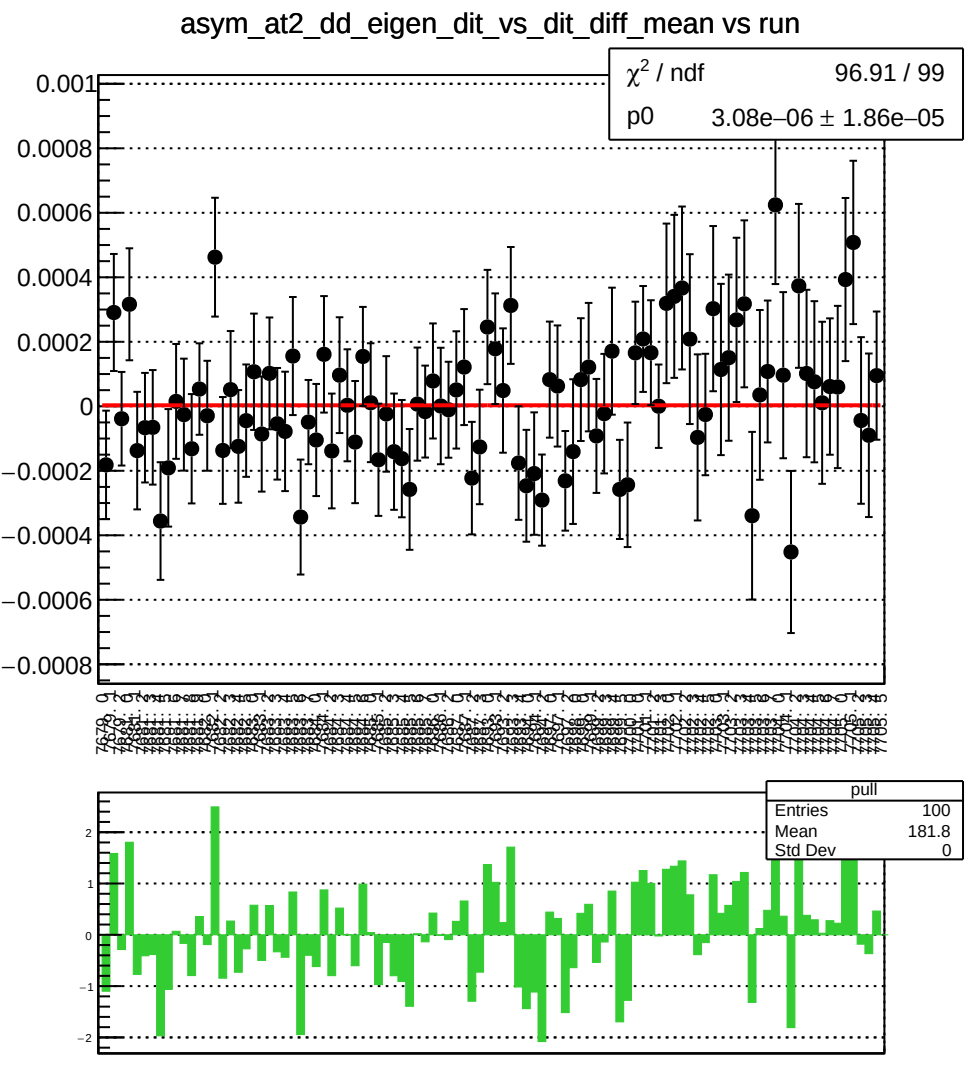

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.409e+06 / 99
p0 6.244e−11 ± 8.695e−14
1.2
1
0.8
0.6
0.4
0.2
0

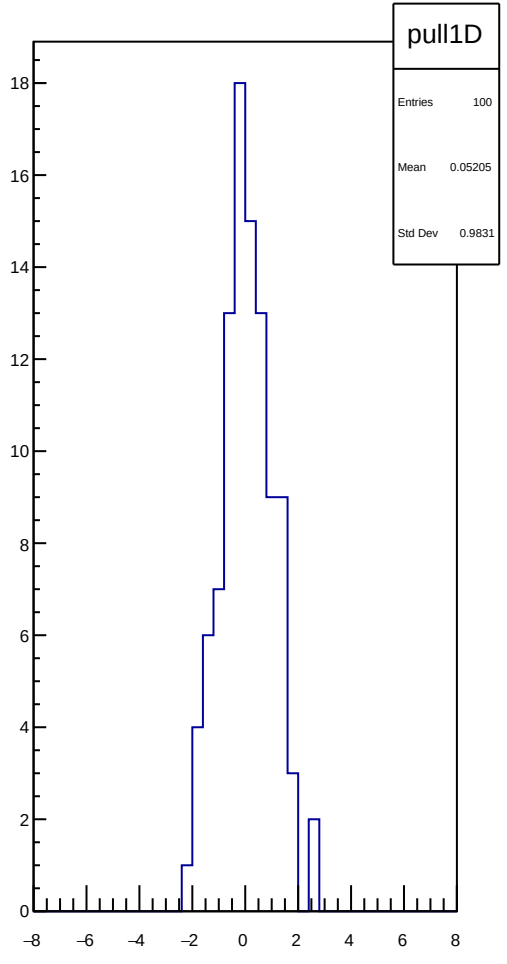

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 102.2 / 99
p0 −0.08028 ± 0.05677
pull
Entries 100
Mean −22.92
Std Dev 0
pull1D
Entries 100
Mean 0.0201
Std Dev 1.011

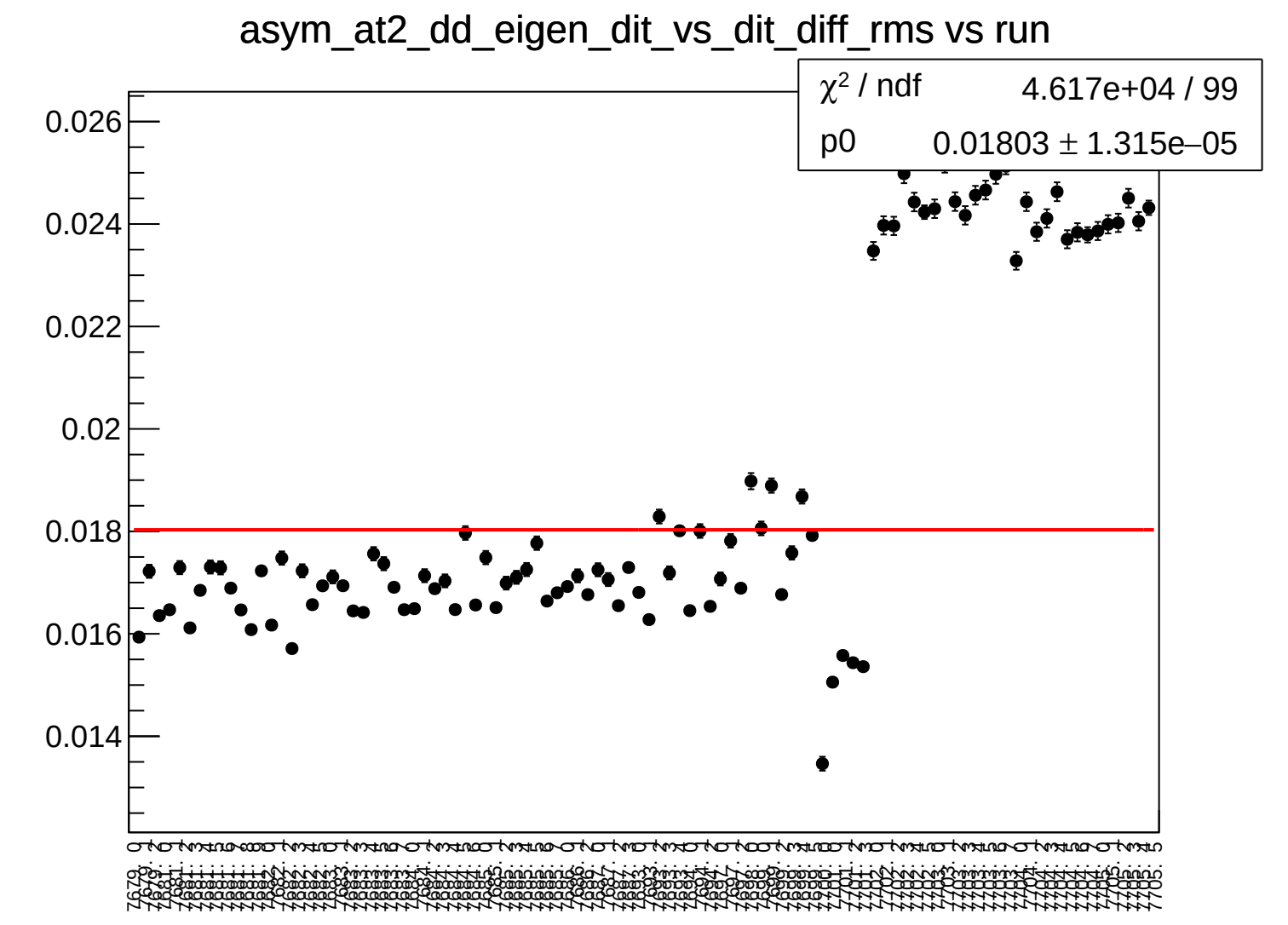

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.49e+05 / 99
p0 50.4 ± 0.04014
180
160
140
120
100
80
60
40
20

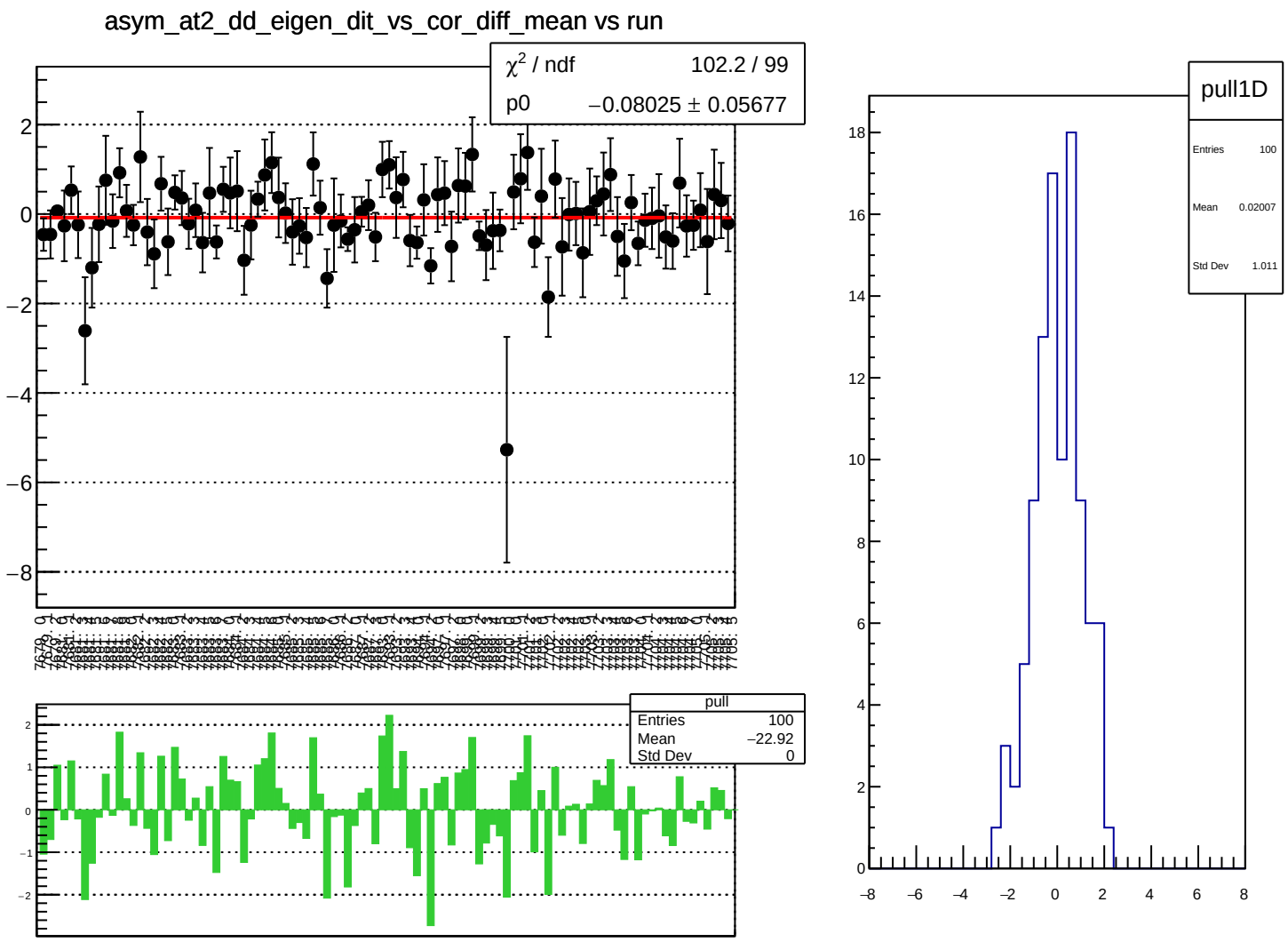

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.2 / 99
p0 −0.08028 ± 0.05677
pull
Entries 100
Mean −22.92
Std Dev 0
pull1D
Entries 100
Mean 0.0201
Std Dev 1.011

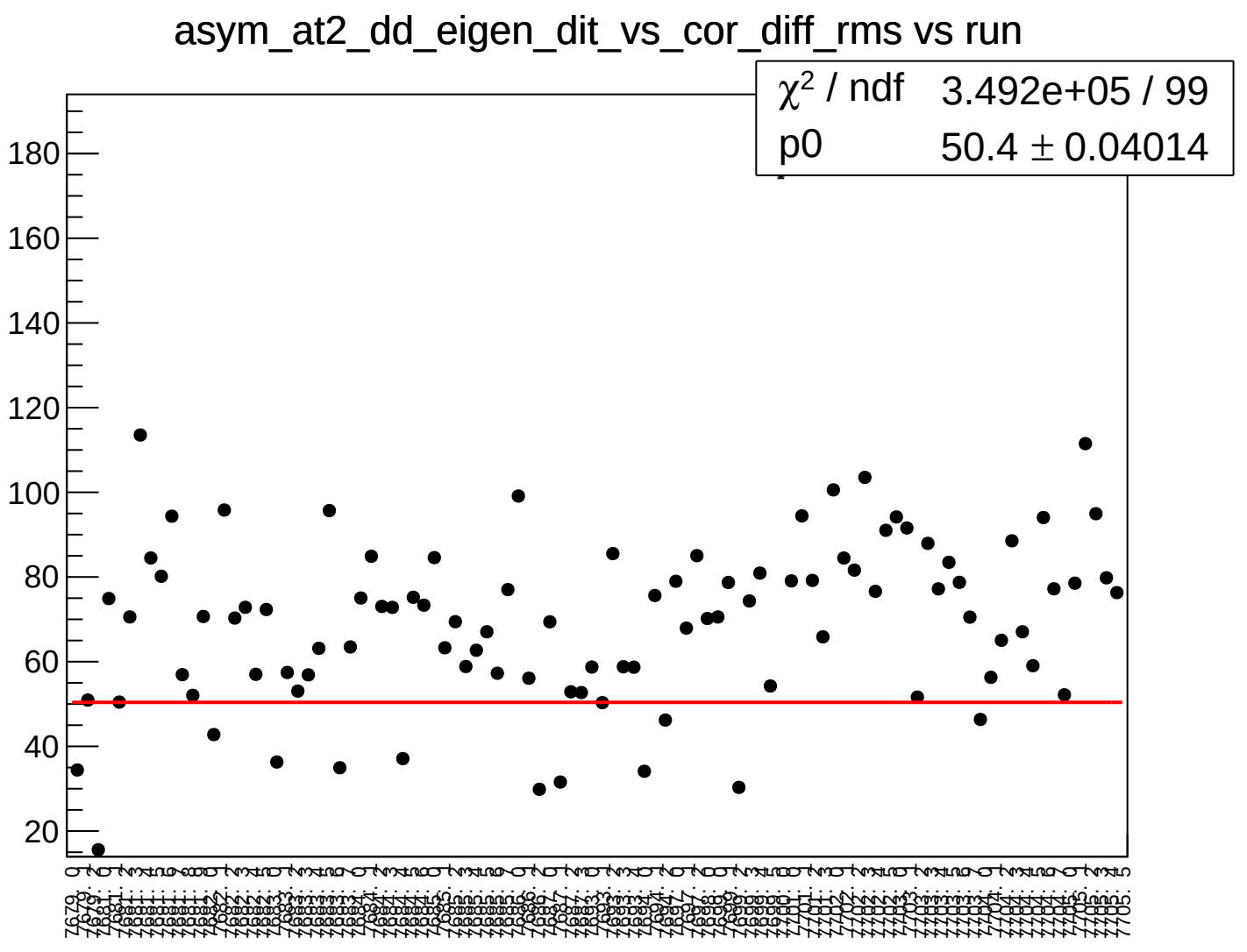

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.49e+05 / 99
p0 50.4 ± 0.04014
180
160
140
120
100
80
60
40
20

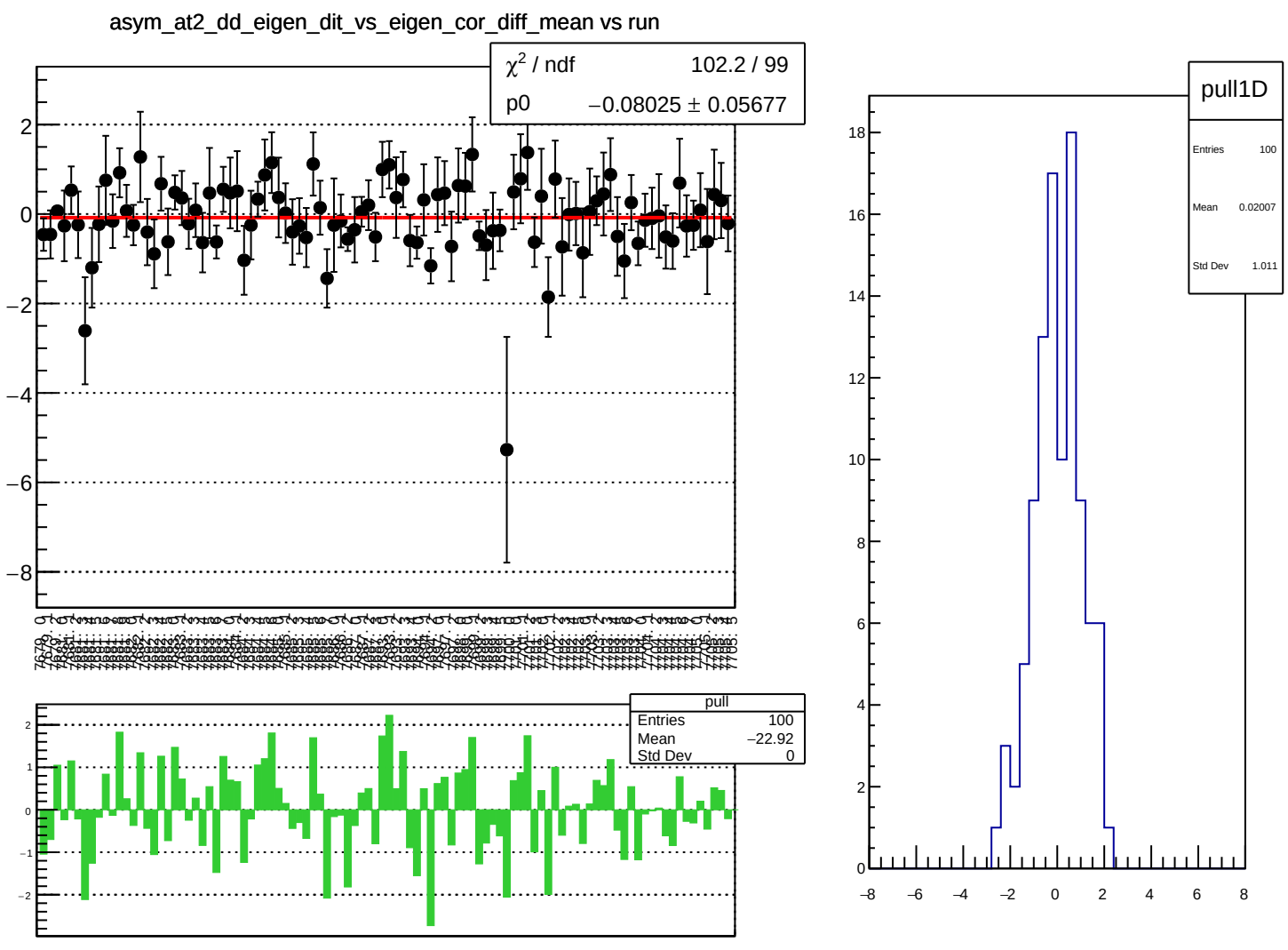

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 96.91 / 99
p0 3.08e−06 ± 1.86e−05
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 100
Mean 181.8
Std Dev 0
2
1
0
−1
−2

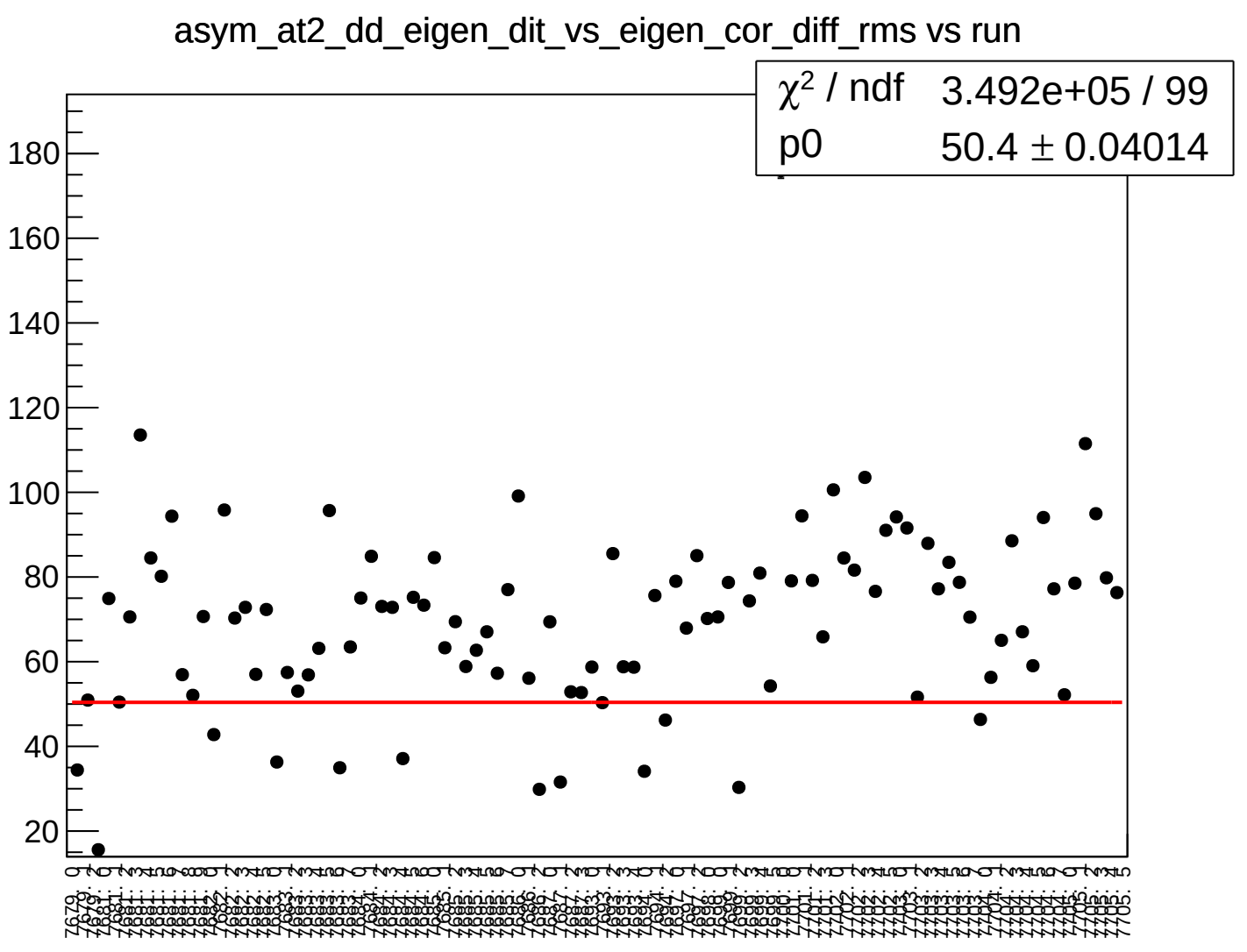

pull1D
Entries 100
Mean 0.05205
Std Dev 0.9831
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

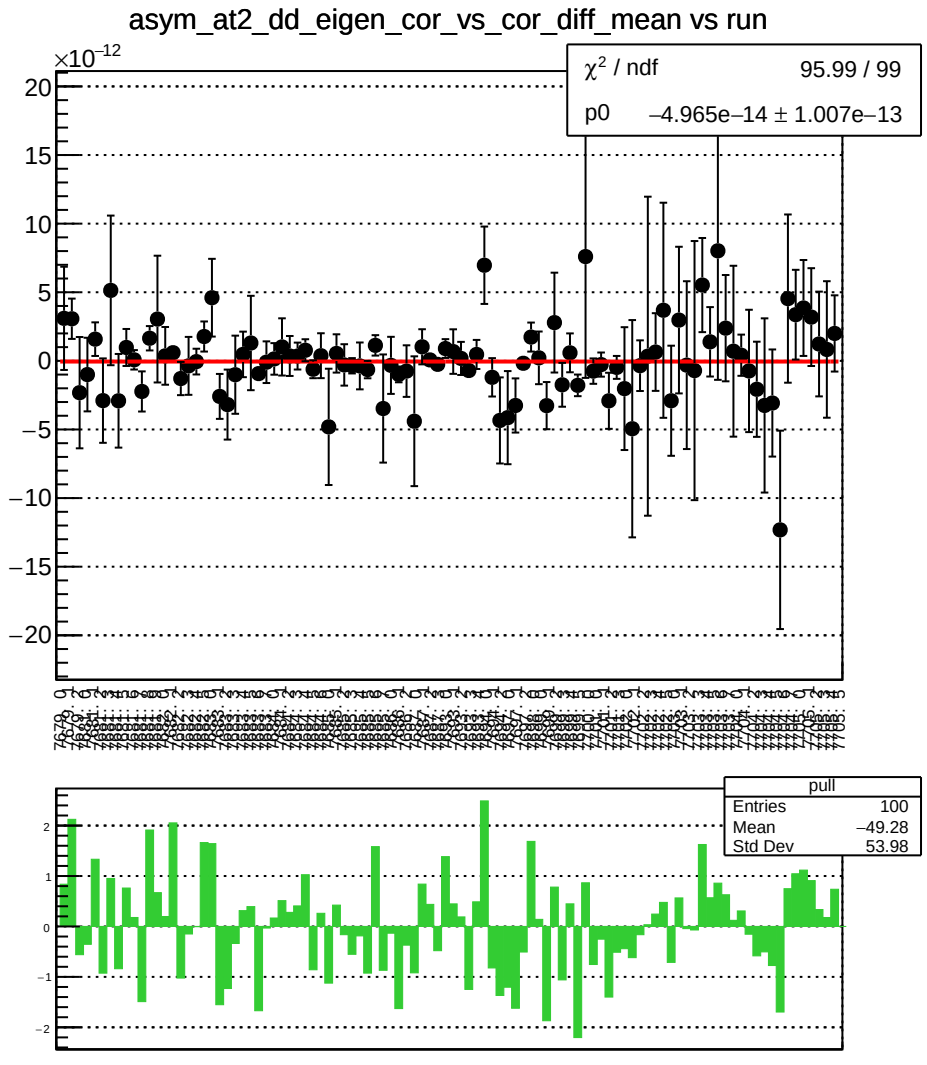

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.617e+04 / 99
p0 0.01803 ± 1.315e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014

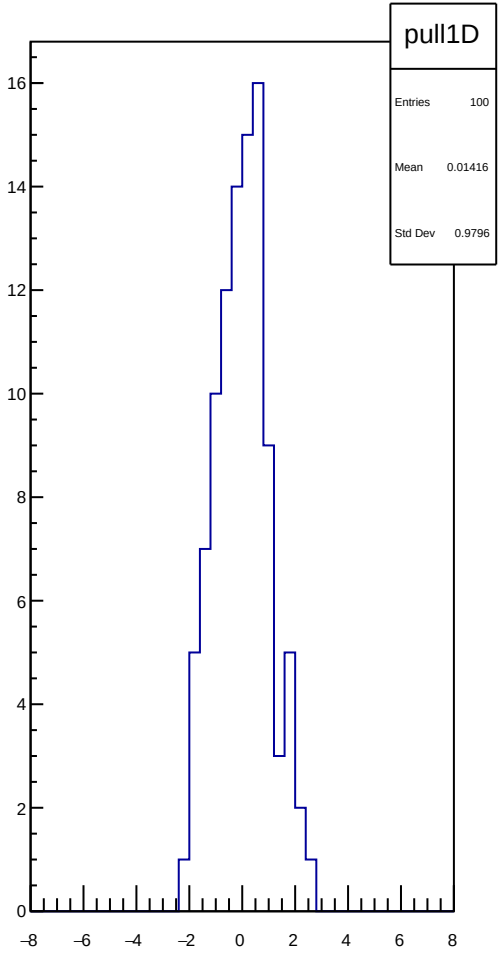

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.2 / 99
p0 −0.08025 ± 0.05677
pull
Entries 100
Mean −22.92
Std Dev 0
pull1D
Entries 100
Mean 0.02007
Std Dev 1.011

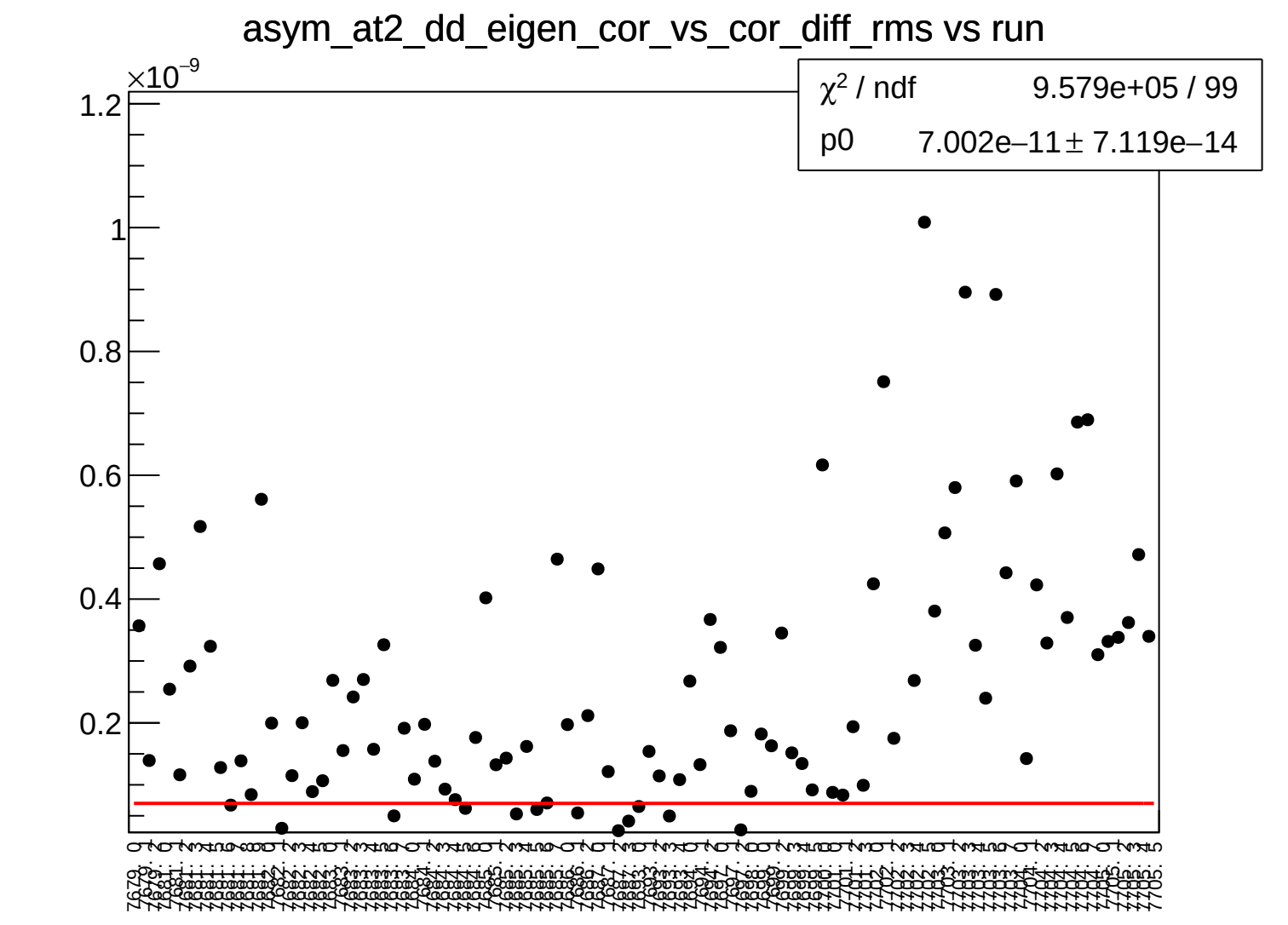

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.492e+05 / 99
p0 50.4 ± 0.04014
180
160
140
120
100
80
60
40
20

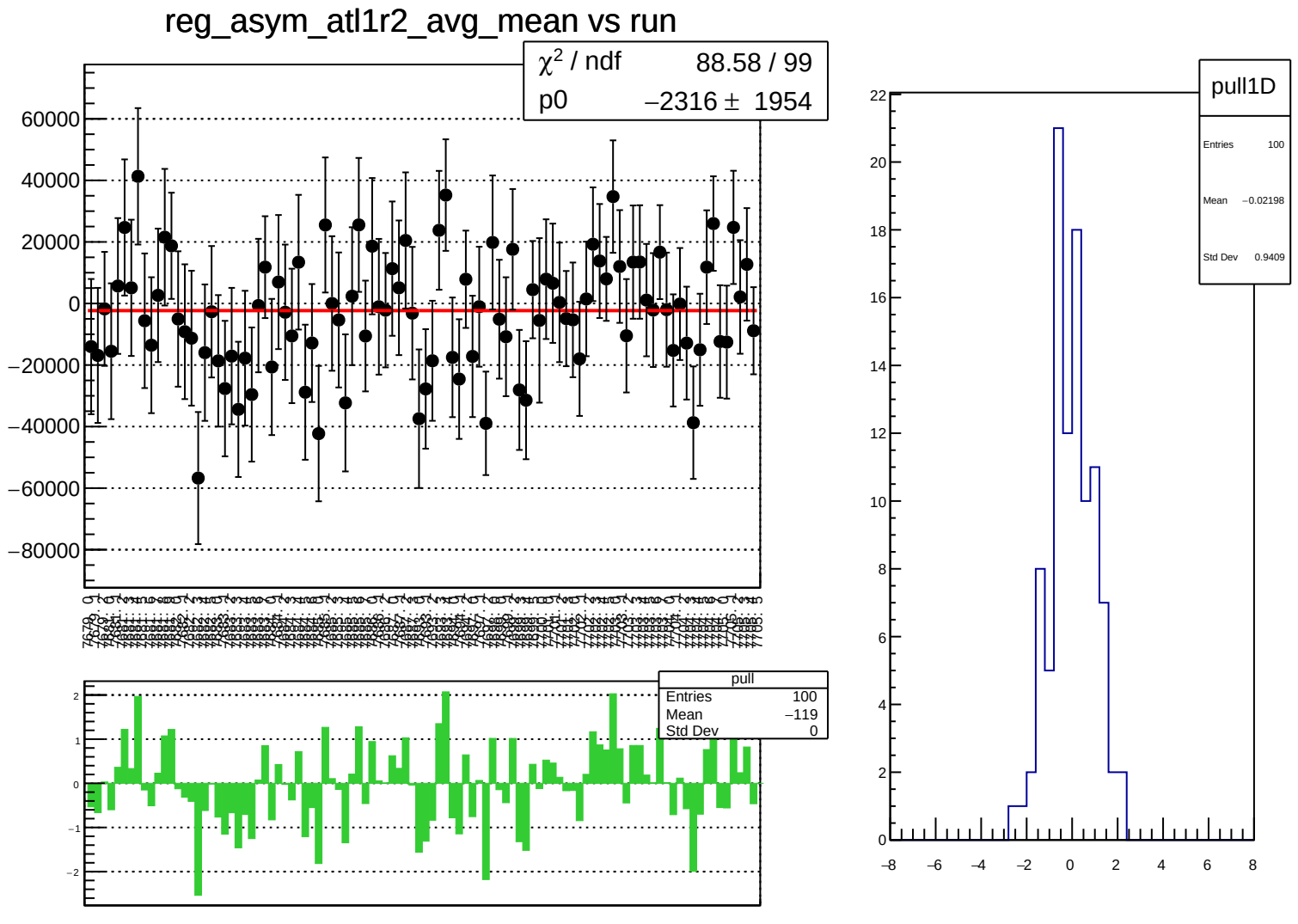

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.2 / 99
p0 −0.08025 ± 0.05677
pull
Entries 100
Mean −22.92
Std Dev 0
pull1D
Entries 100
Mean 0.02007
Std Dev 1.011

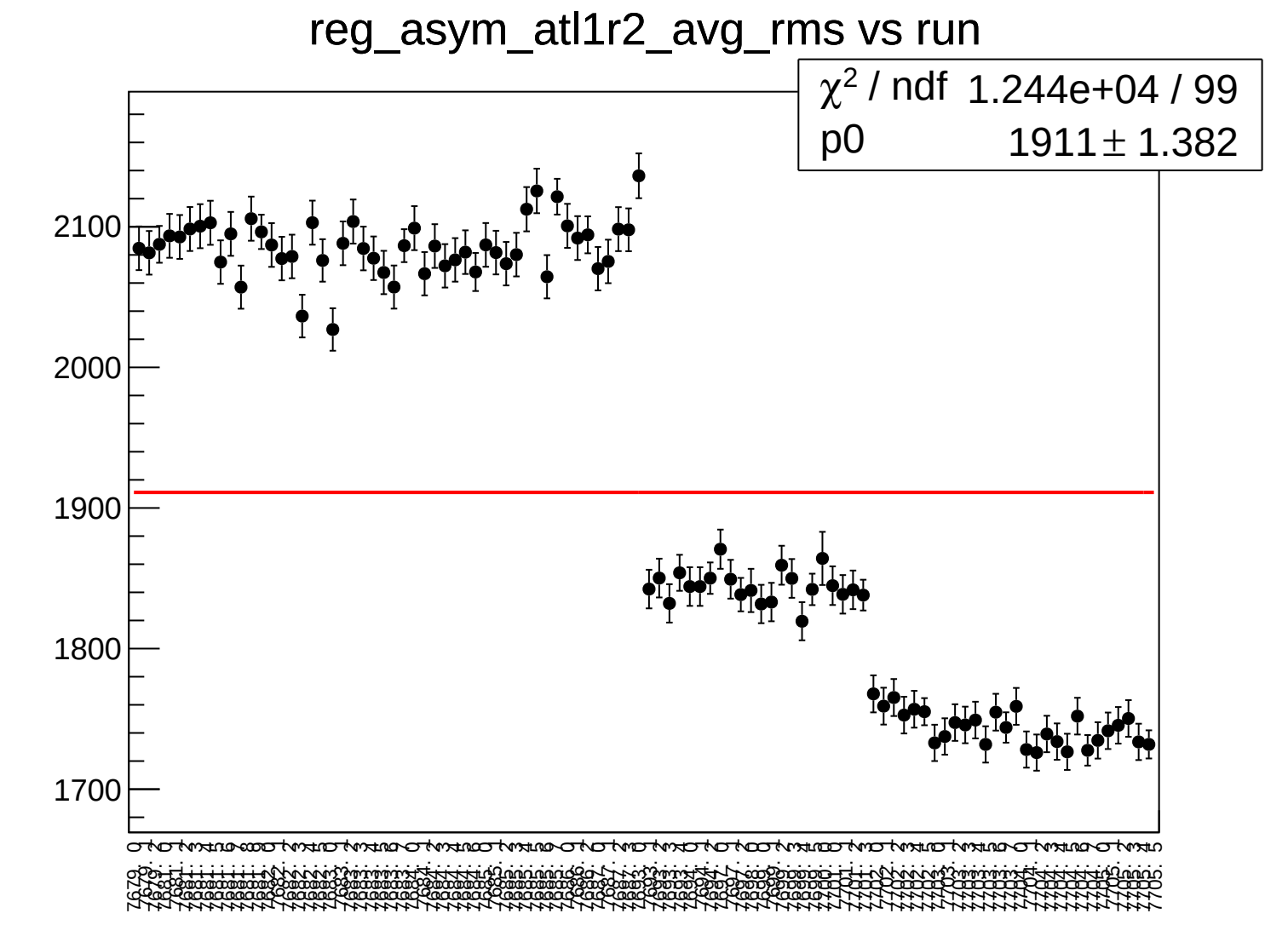

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.492e+05 / 99
p0 50.4 ± 0.04014
180
160
140
120
100
80
60
40
20

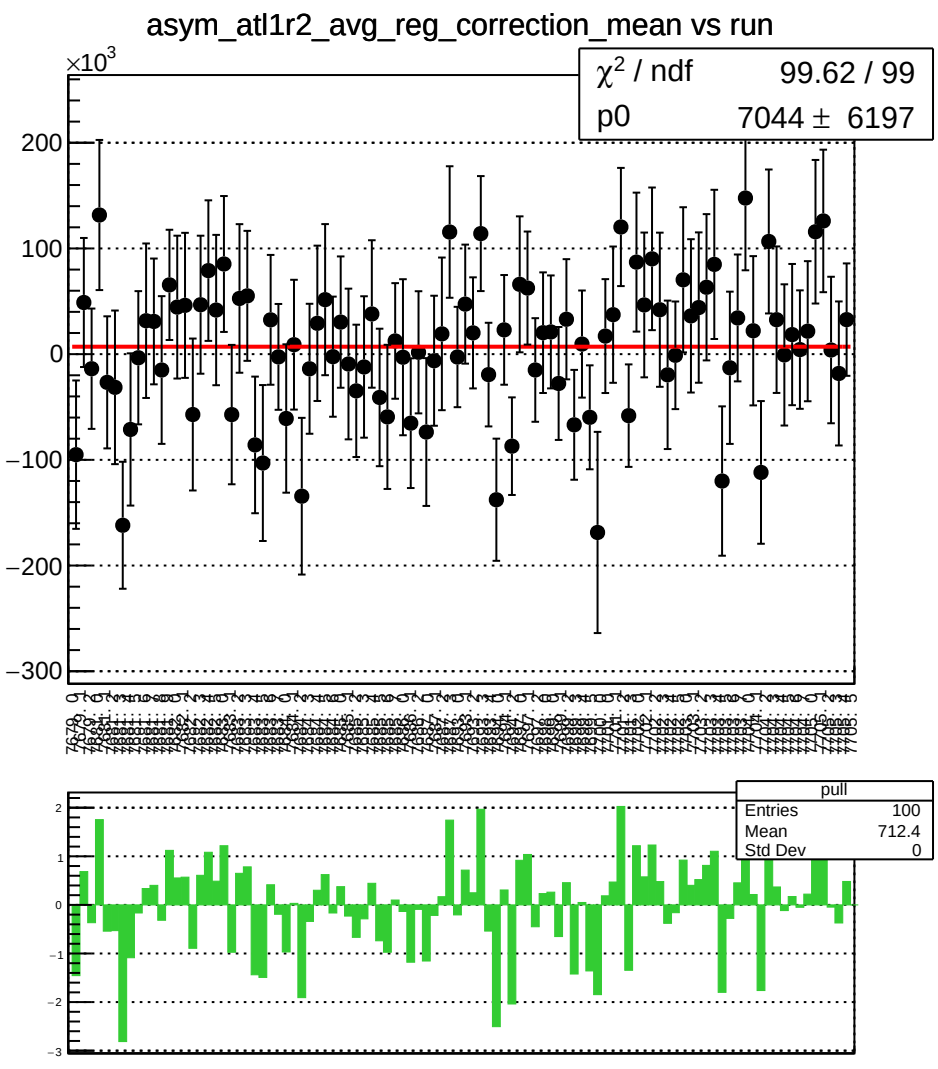

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.99 / 99
p0 −4.965e−14 ± 1.007e−13
pull
Entries 100
Mean −49.28
Std Dev 53.98

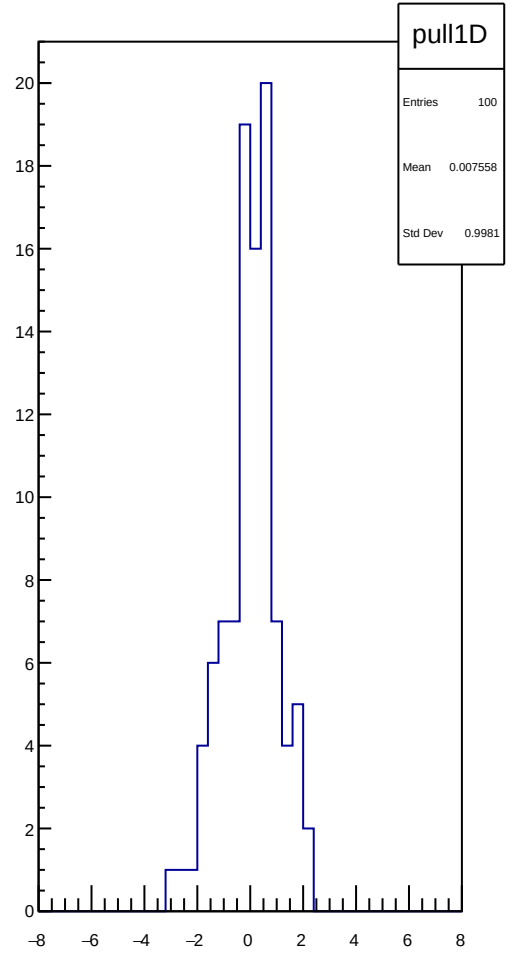

pull1D
Entries 100
Mean 0.01416
Std Dev 0.9796

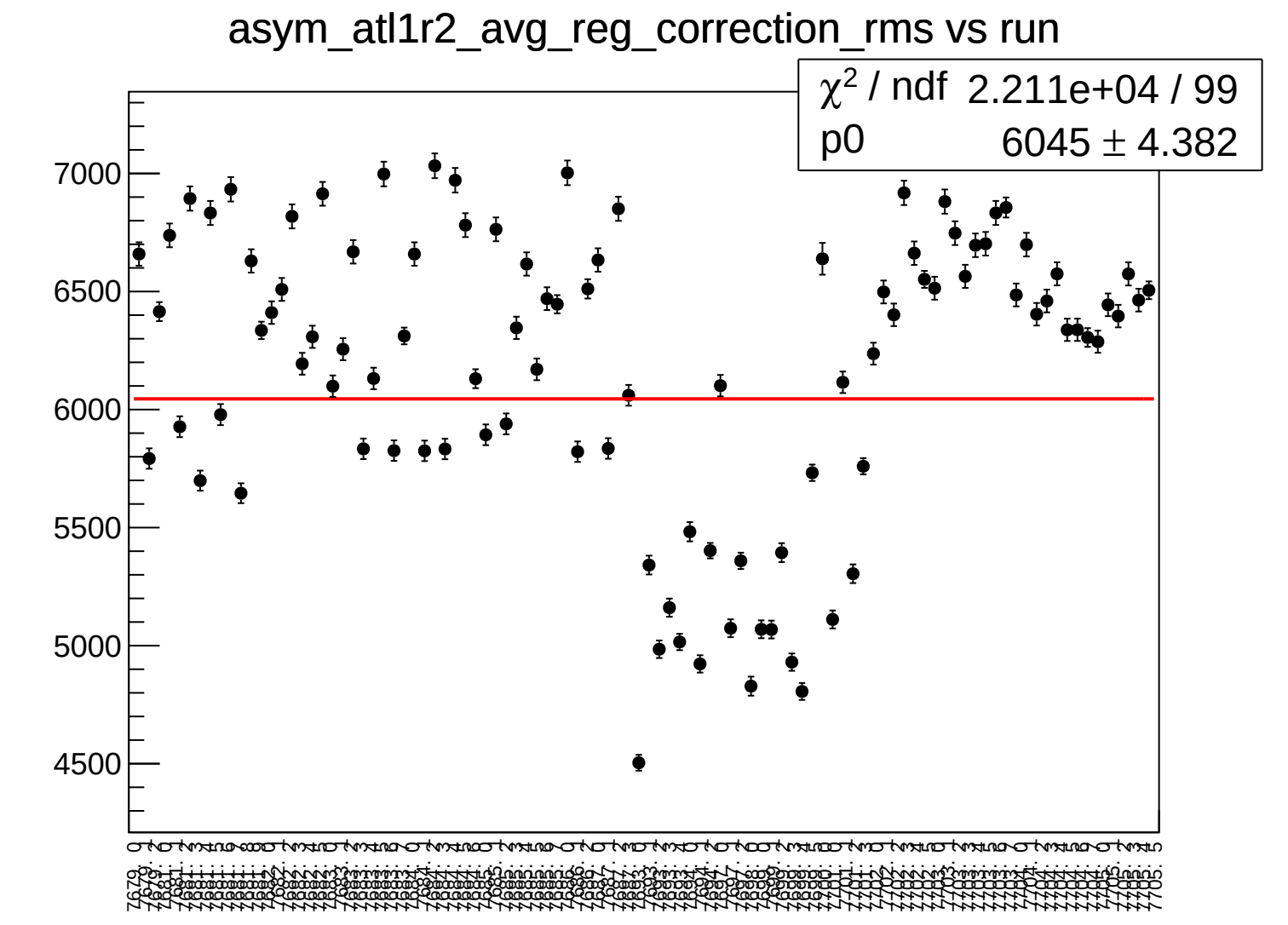

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
1.2
1
0.8
0.6
0.4
0.2
χ² / ndf 9.579e+05 / 99
p0 7.002e−11 ± 7.119e−14

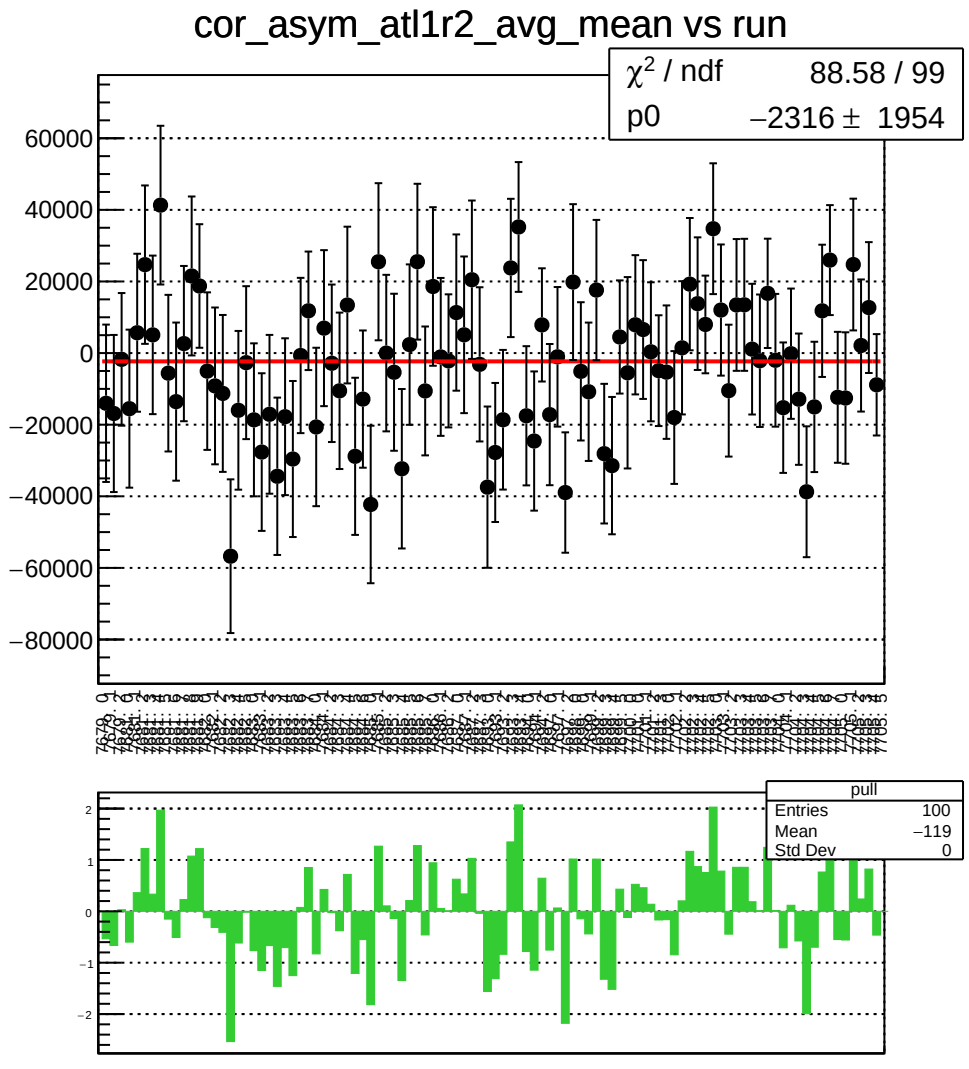

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 88.58 / 99
p0 −2316 ± 1954
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −119
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.02198
Std Dev 0.9409
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

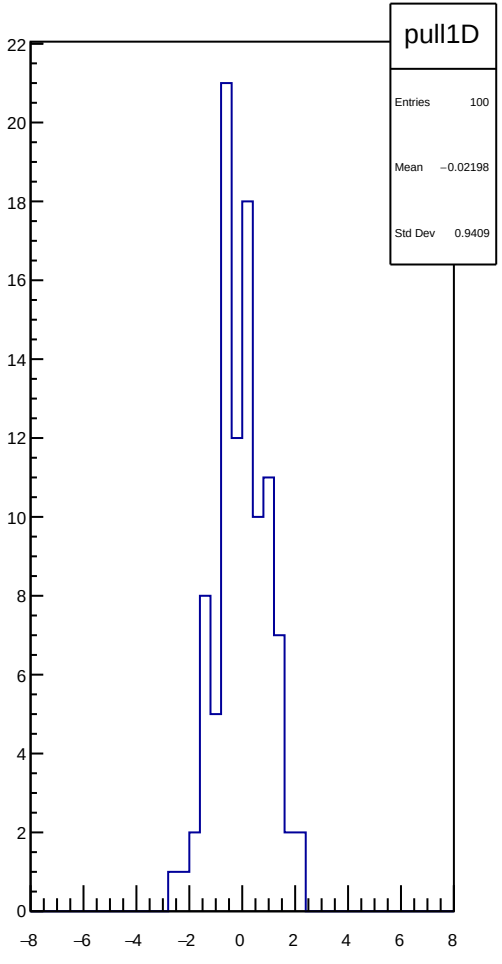

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 1.244e+04 / 99
p0 1911 ± 1.382
2100
2000
1900
1800
1700


asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 99.62 / 99
p0 7044 ± 6197
200
100
0
−100
−200
−300
pull
Entries 100
Mean 712.4
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 100
Mean 0.007558
Std Dev 0.9981
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 2.211e+04 / 99
p0 6045 ± 4.382
7000
6500
6000
5500
5000
4500


cor_asym_atl1r2_avg_mean vs run
χ² / ndf 88.58 / 99
p0 −2316 ± 1954
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −119
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 100
Mean −0.02198
Std Dev 0.9409
22
20
18
16
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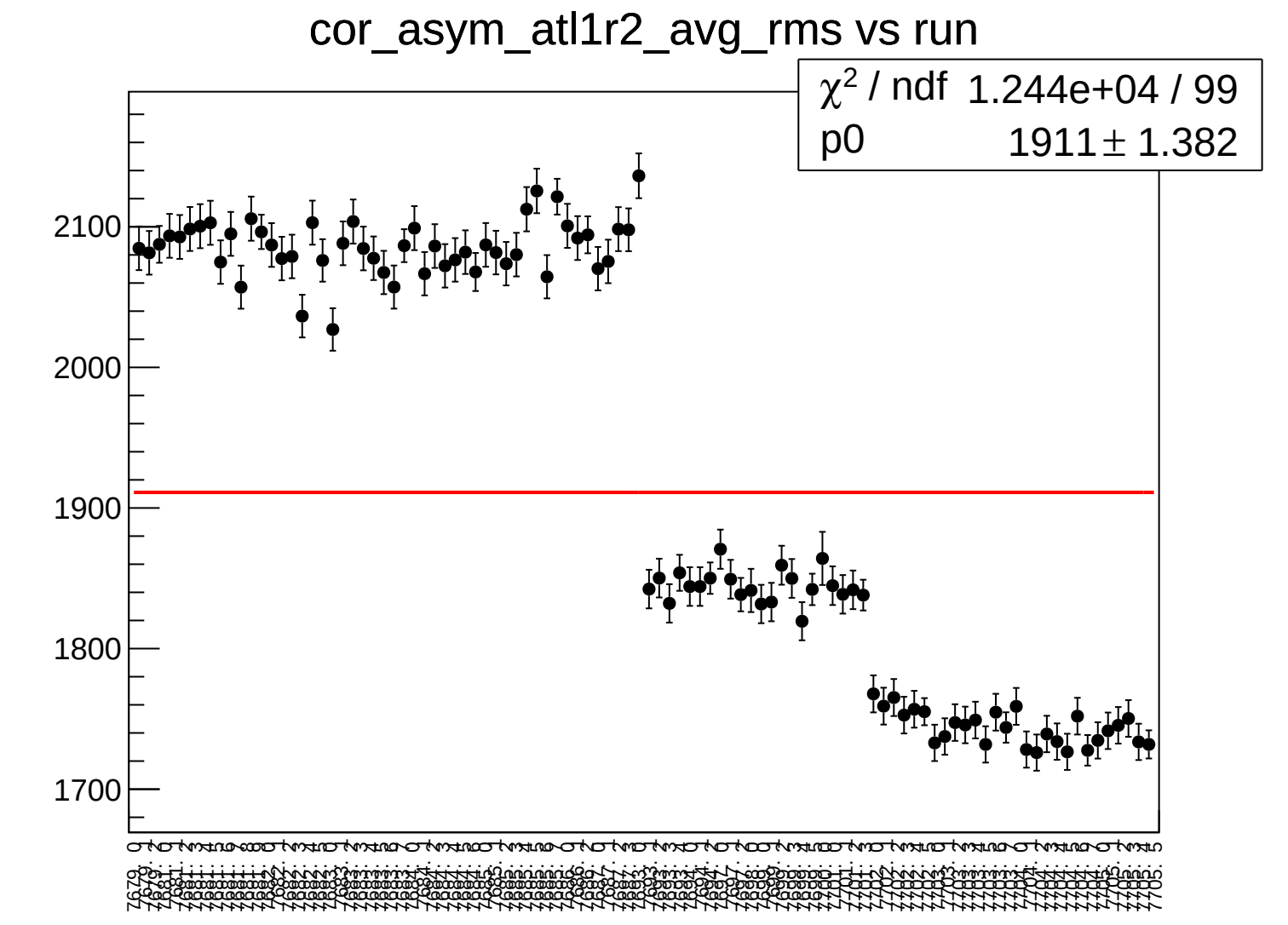
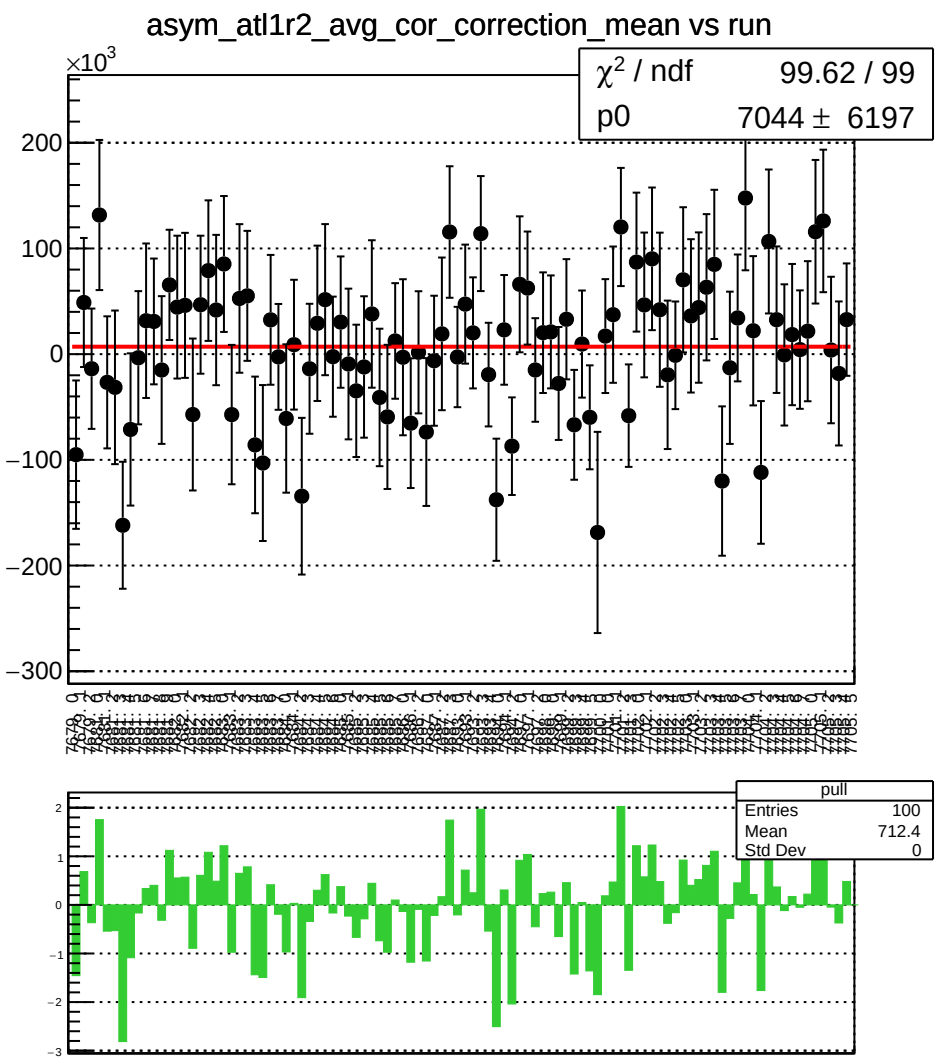
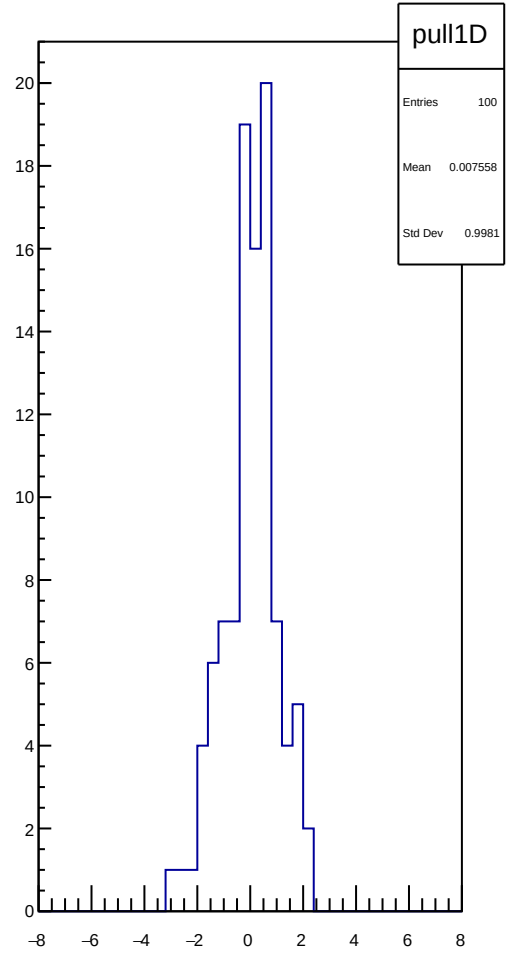
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl1r2_avg_rms vs run
χ² / ndf 1.244e+04 / 99
p0 1911 ± 1.382
2100
2000
1900
1800
1700


asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 99.62 / 99
p0 7044 ± 6197
200
100
0
−100
−200
−300
pull
Entries 100
Mean 712.4
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 100
Mean 0.007558
Std Dev 0.9981
20
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10
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6
4
2
0
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−6
−4
−2
0
2
4
6
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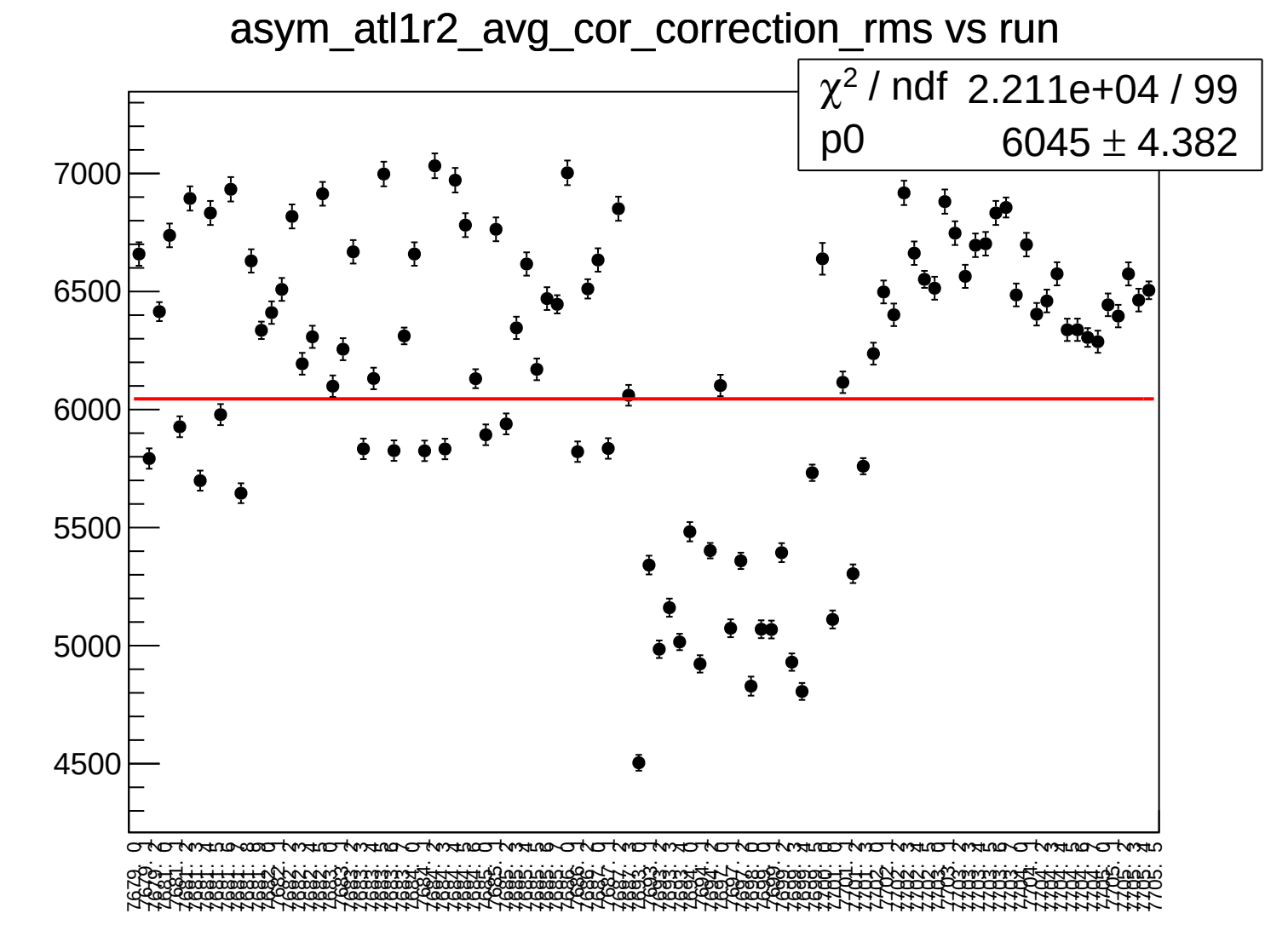
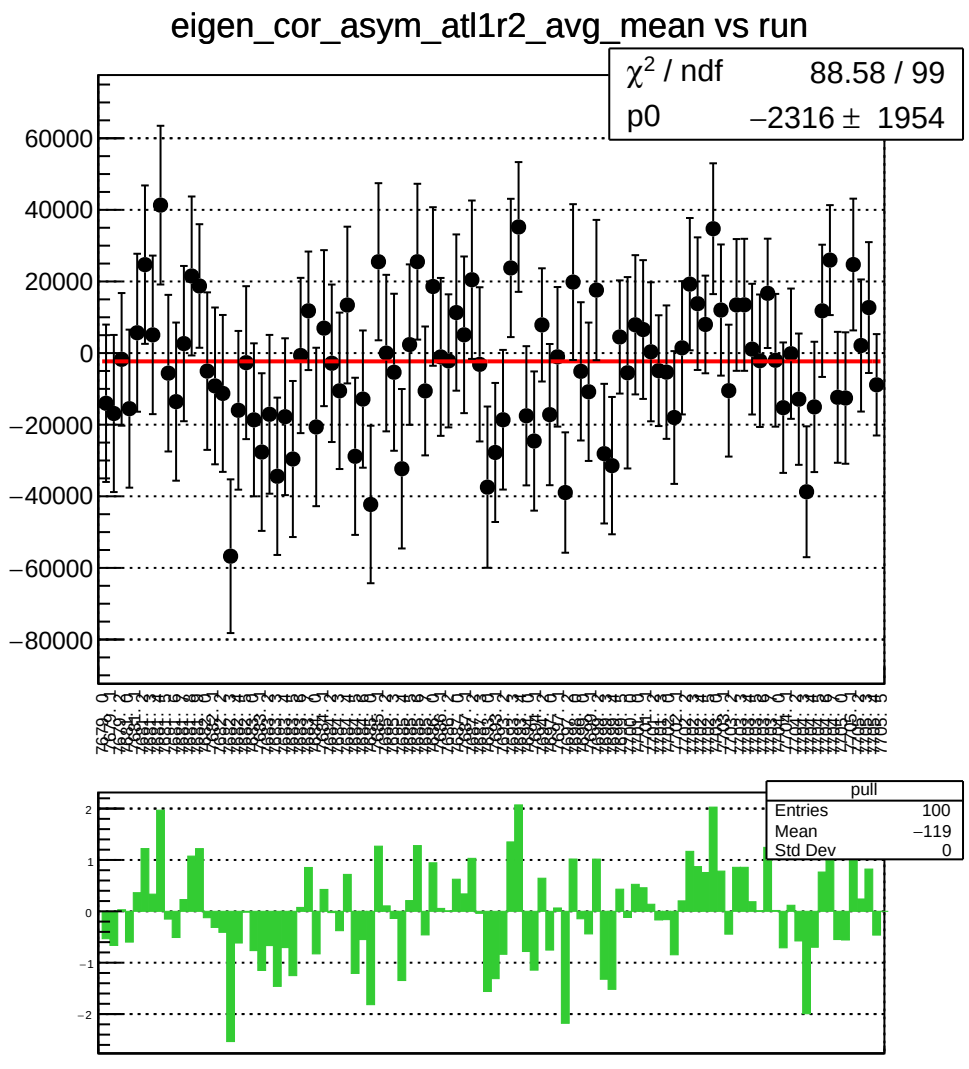
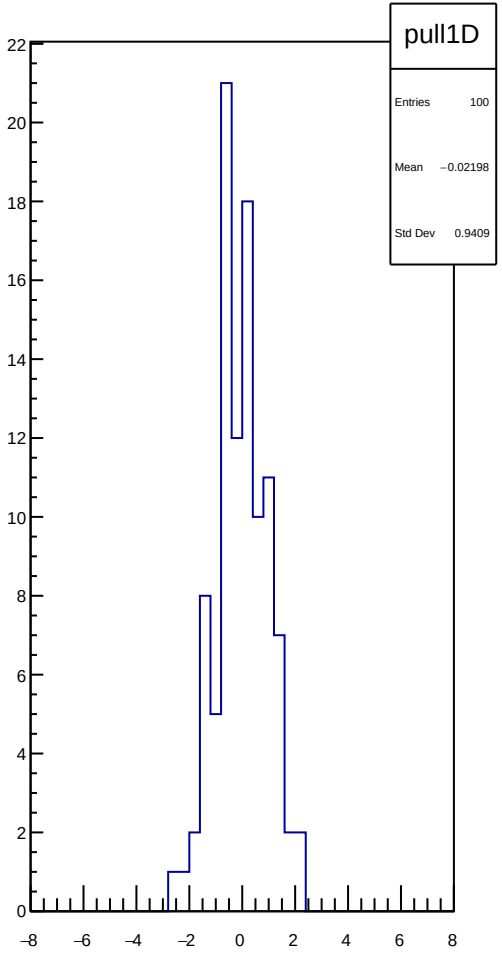

asym_atl1r2_avg_cor_correction_rms vs run
χ^2 / ndf 2.211e+04 / 99
p0 6045 ± 4.382
7000
6500
6000
5500
5000
4500


eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 88.58 / 99
p0 −2316 ± 1954
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −119
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 100
Mean −0.02198
Std Dev 0.9409
22
20
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2
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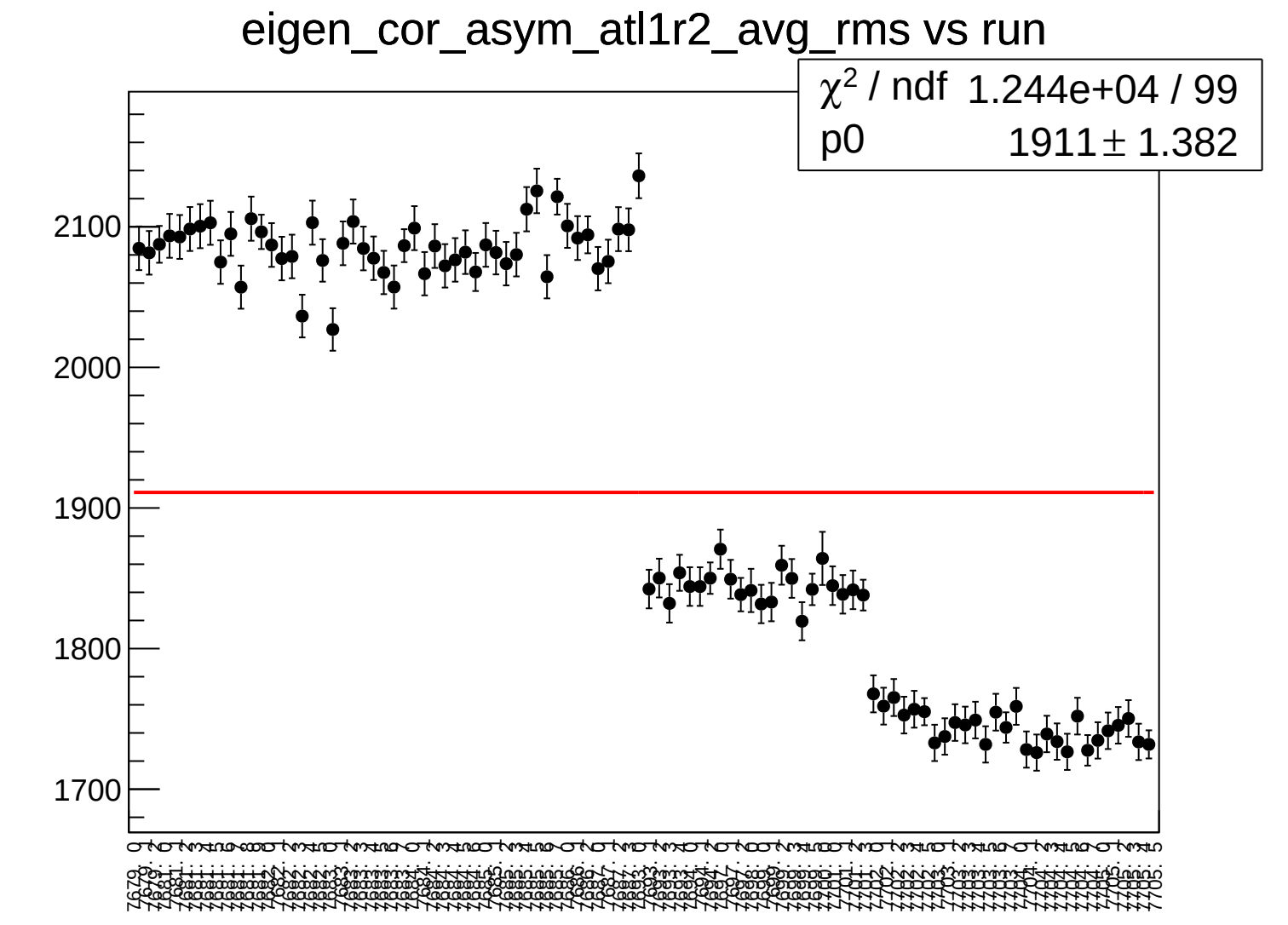
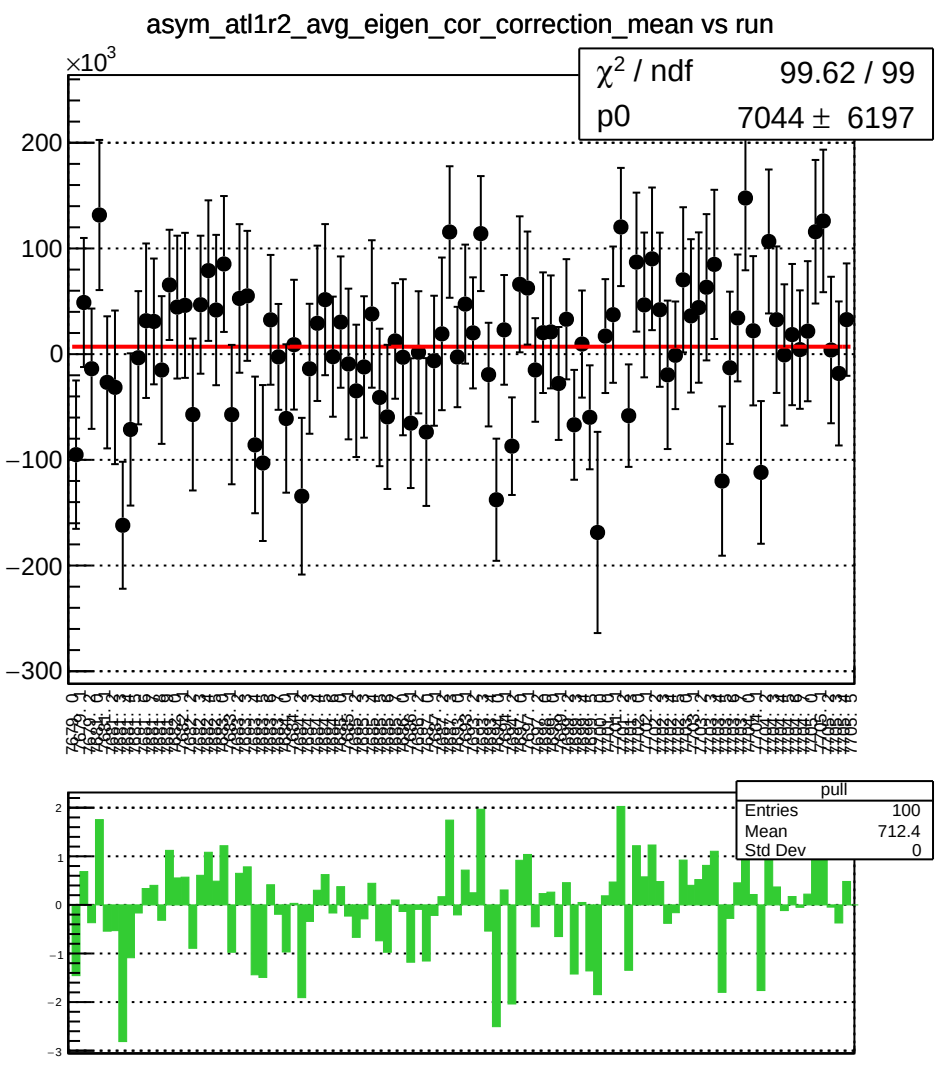
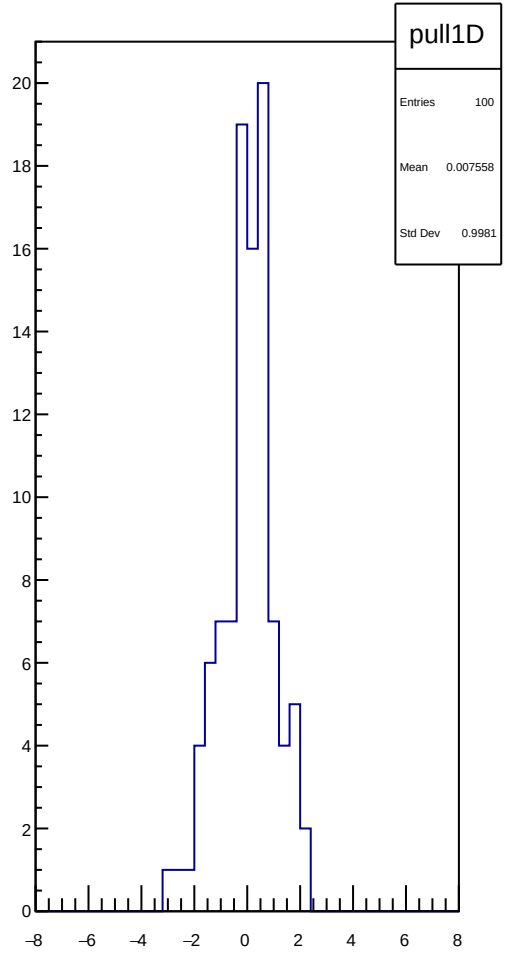

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 1.244e+04 / 99
p0 1911 ± 1.382
2100
2000
1900
1800
1700


asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 99.62 / 99
p0 7044 ± 6197
200
100
0
−100
−200
−300
pull
Entries 100
Mean 712.4
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 100
Mean 0.007558
Std Dev 0.9981
20
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−4
−2
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2
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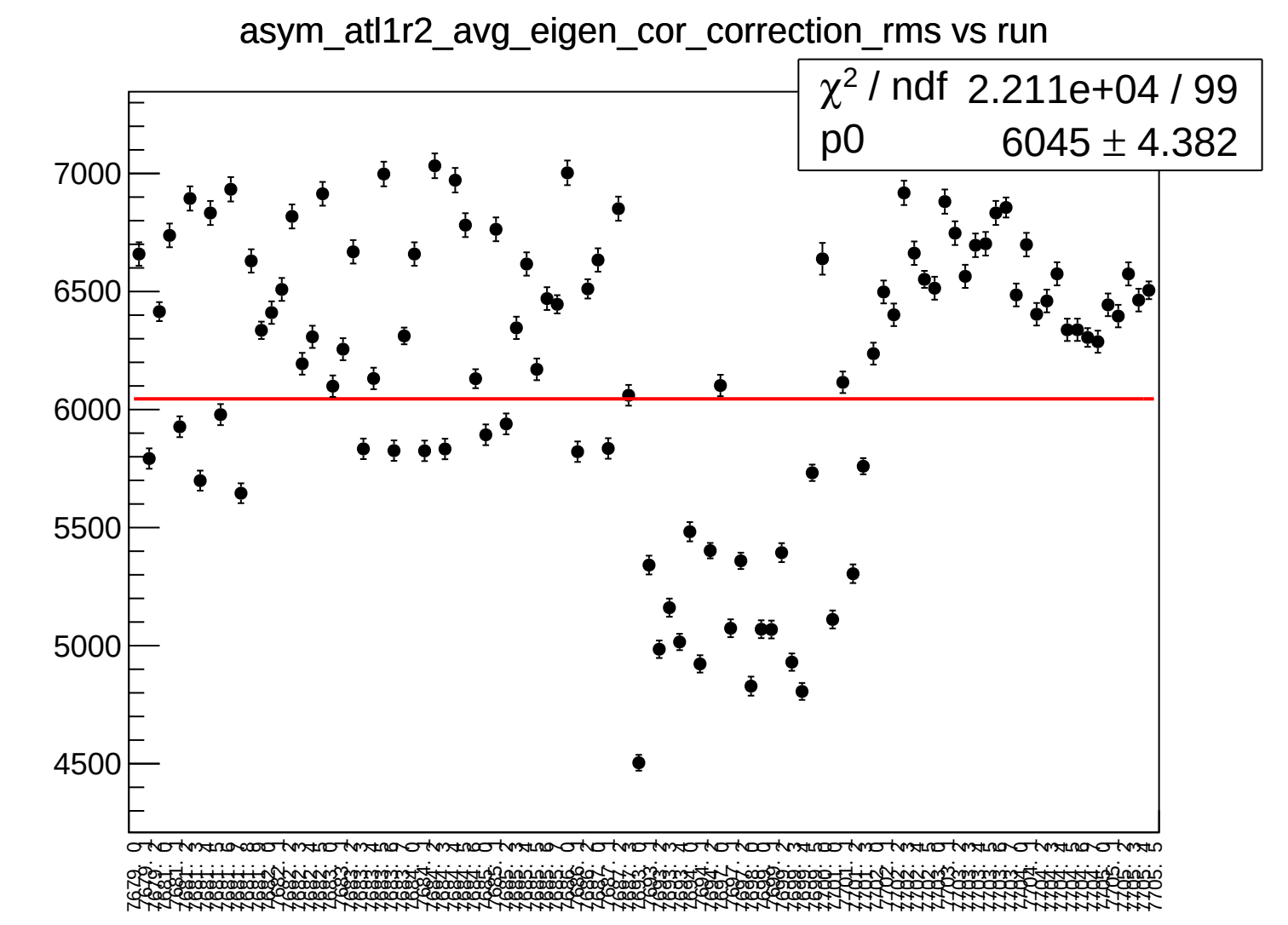
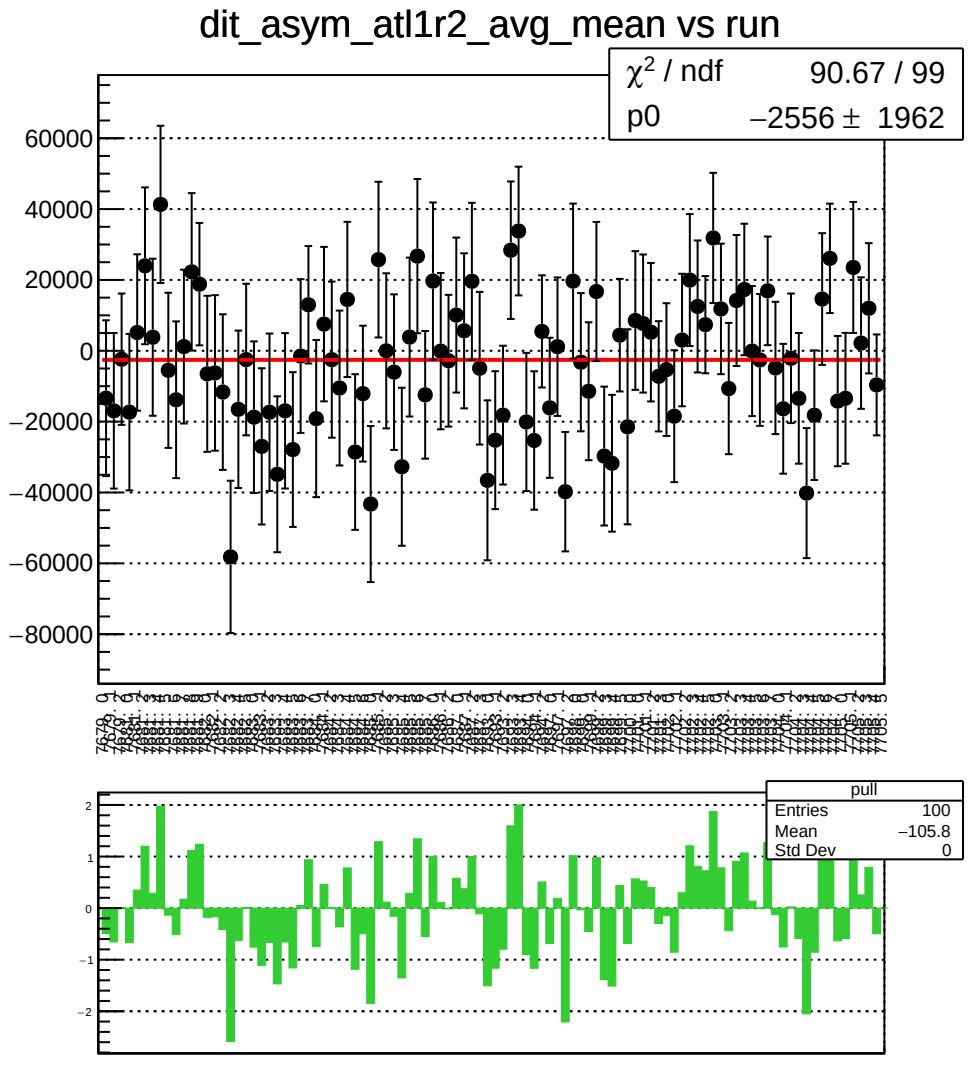
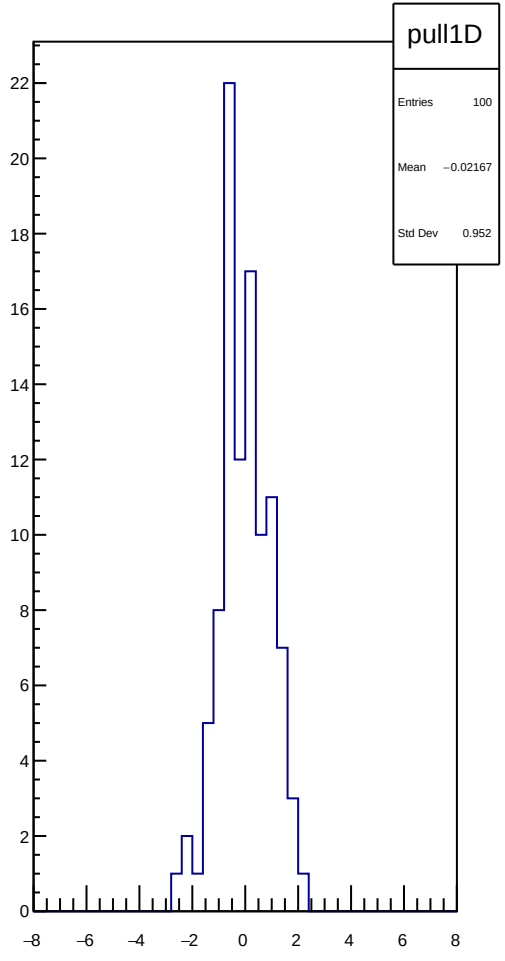
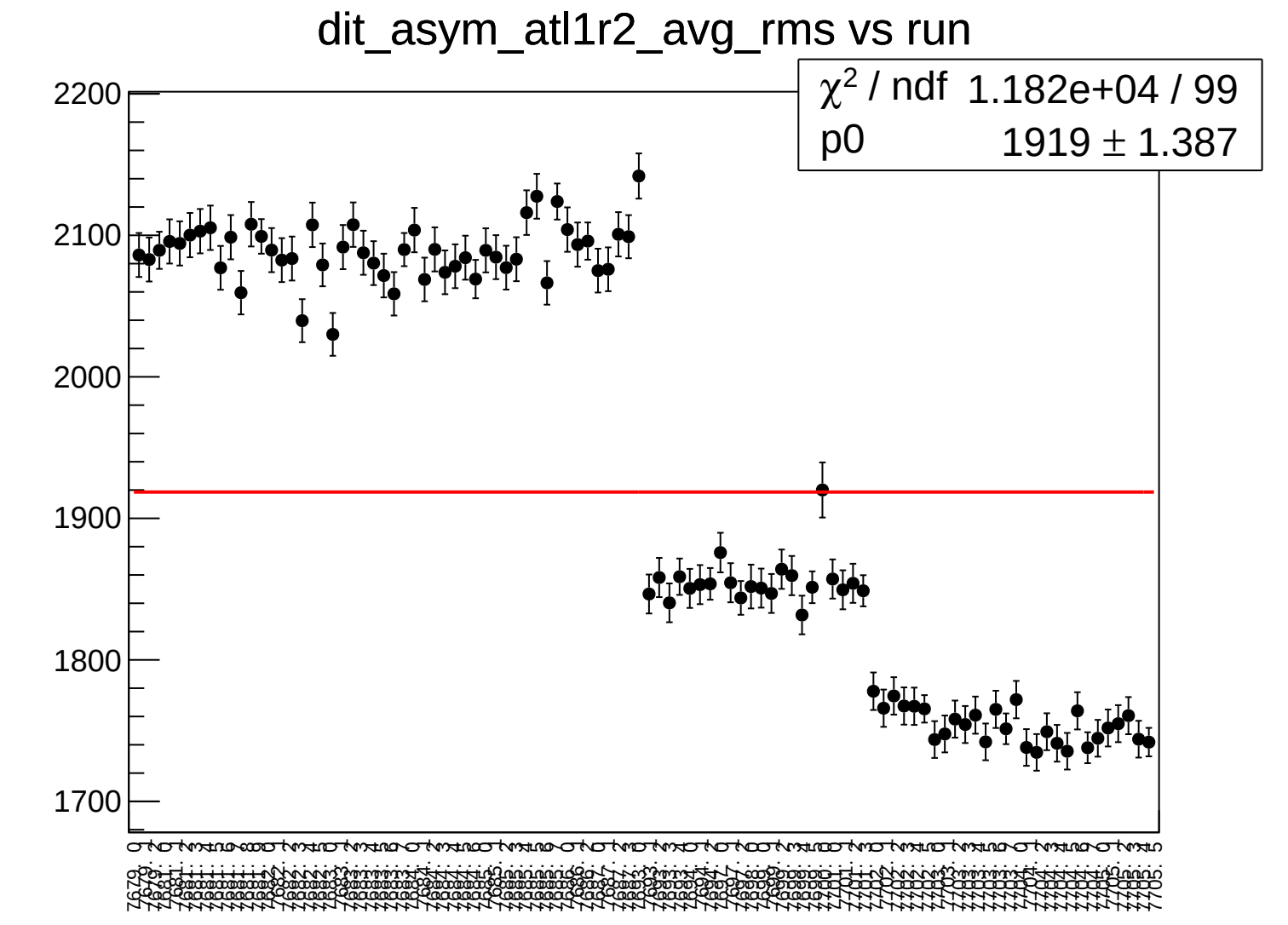
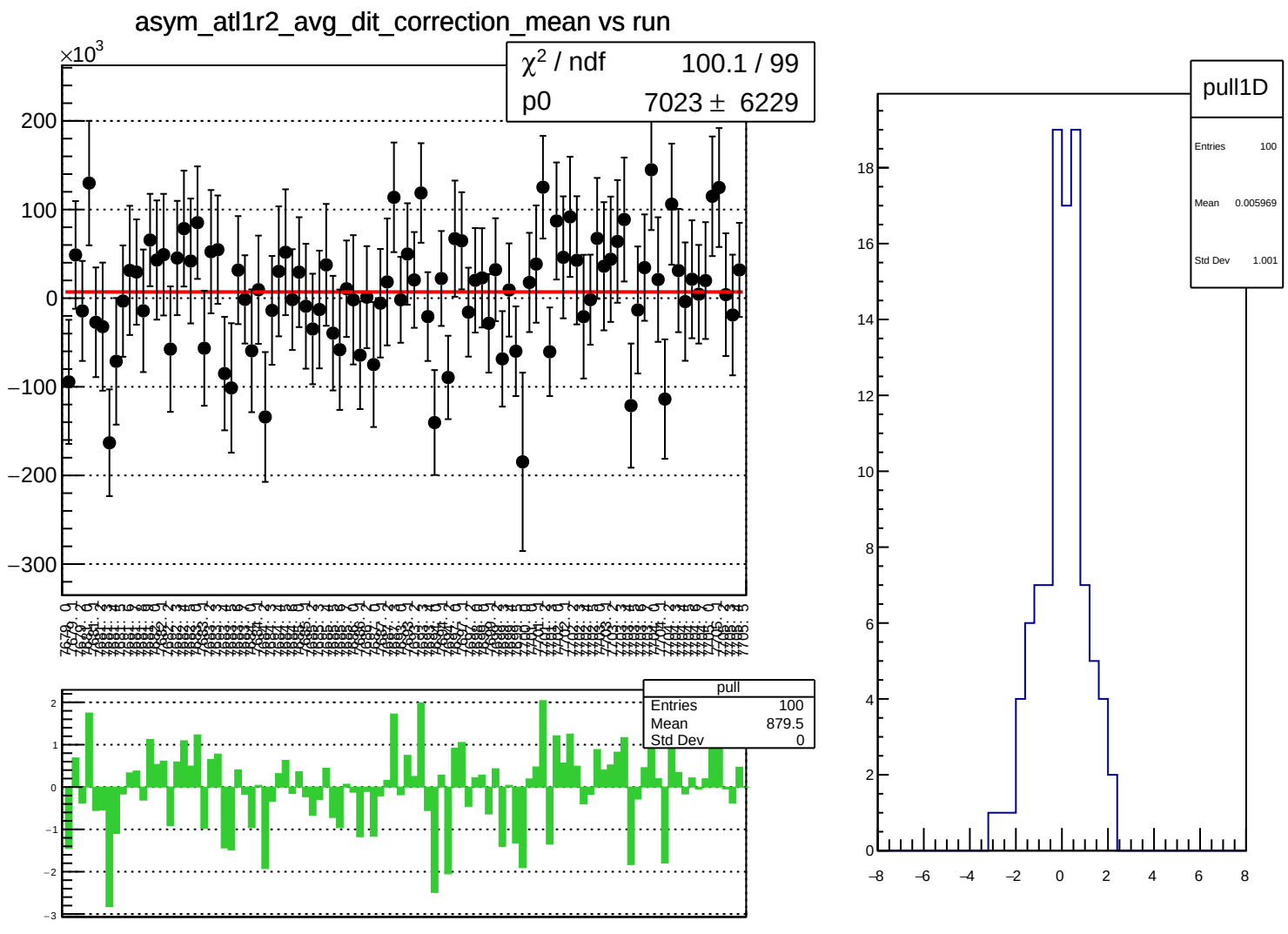
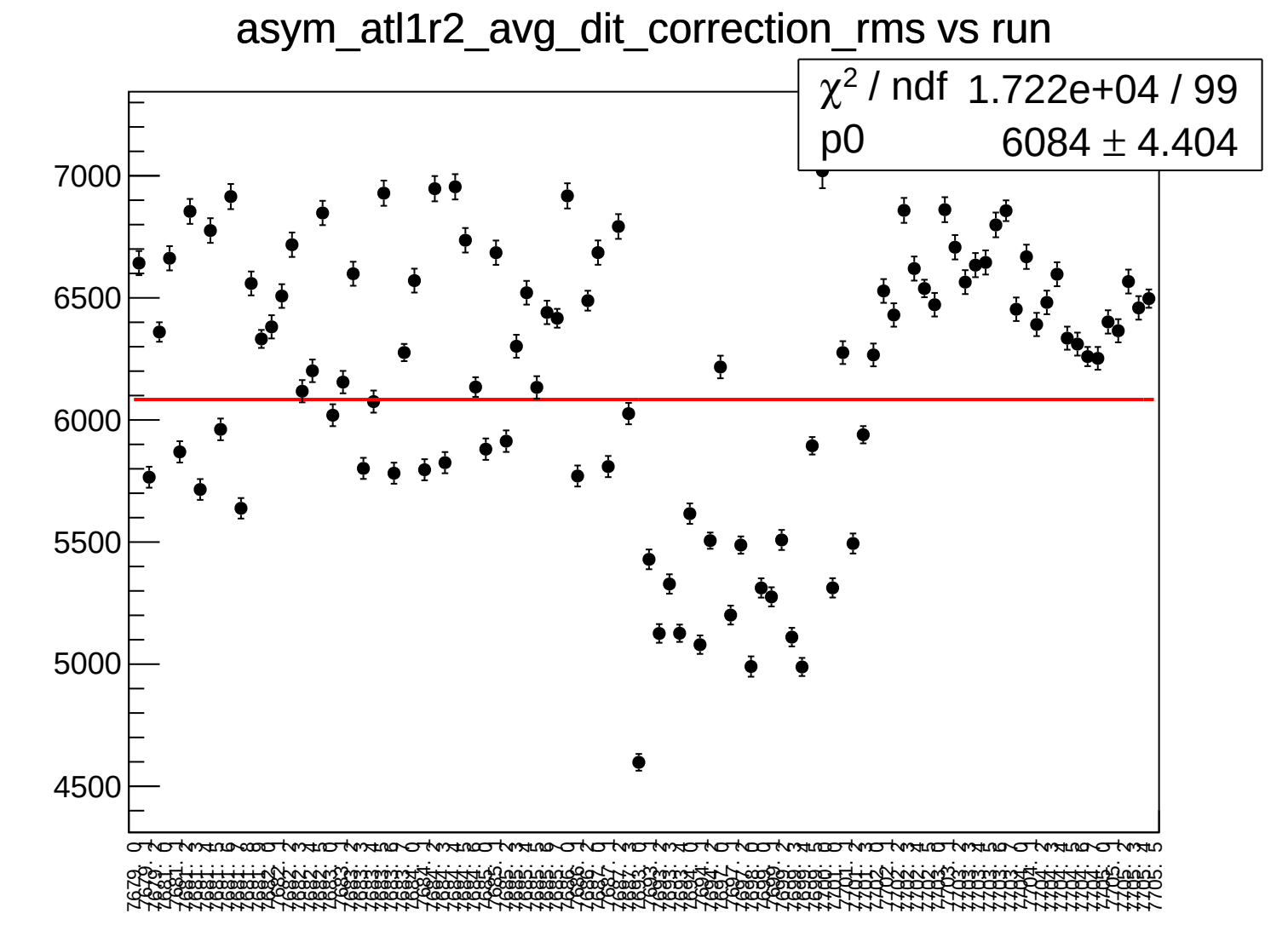

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 2.211e+04 / 99
p0 6045 ± 4.382
7000
6500
6000
5500
5000
4500

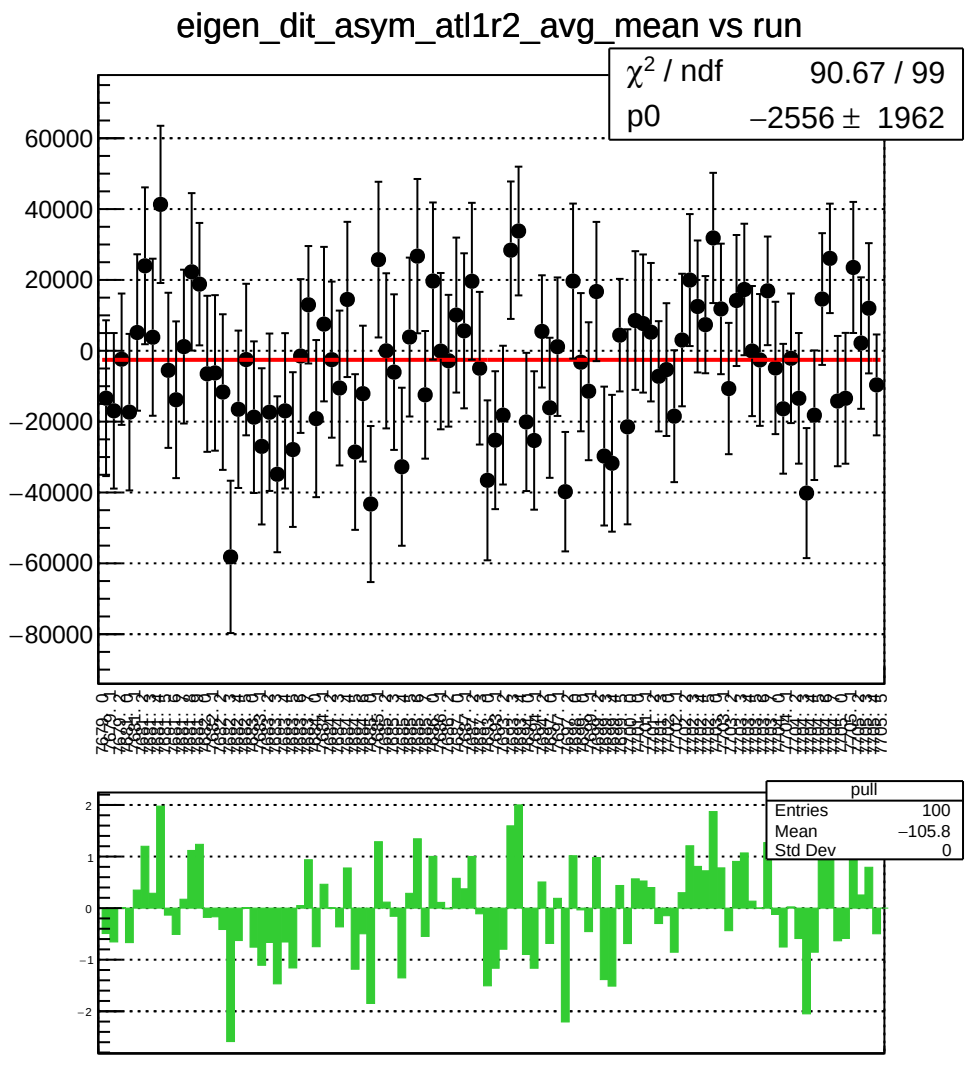

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 90.67 / 99
p0 −2556 ± 1962
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −105.8
Std Dev 0
2
1
0
−1
−2

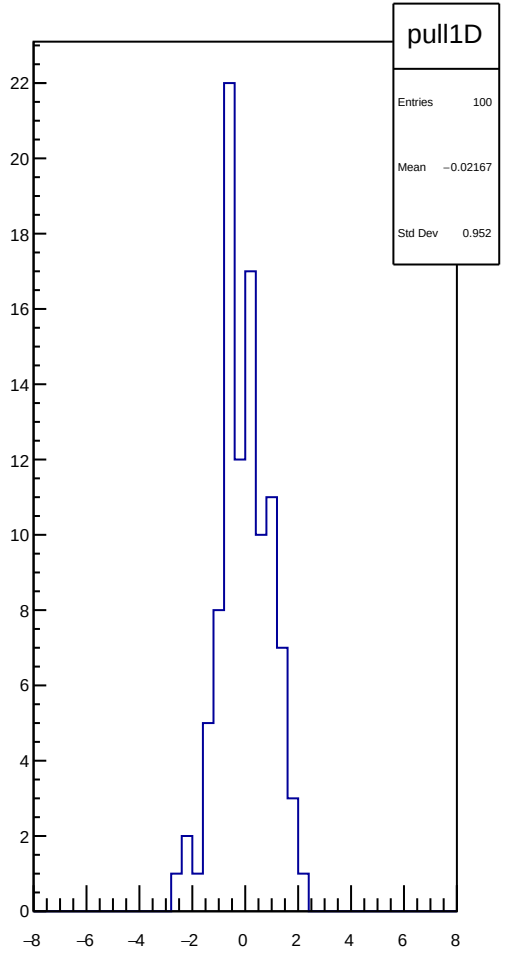

pull1D
Entries 100
Mean −0.02167
Std Dev 0.952
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atl1r2_avg_rms vs run
χ² / ndf 1.182e+04 / 99
p0 1919 ± 1.387
2200
2100
2000
1900
1800
1700


asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 100.1 / 99
p0 7023 ± 6229
200
100
0
−100
−200
−300
pull
Entries 100
Mean 879.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean 0.005969
Std Dev 1.001
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 1.722e+04 / 99
p0 6084 ± 4.404
7000
6500
6000
5500
5000
4500


eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 90.67 / 99
p0 −2556 ± 1962
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −105.8
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 100
Mean −0.02167
Std Dev 0.952
22
20
18
16
14
12
10
8
6
4
2
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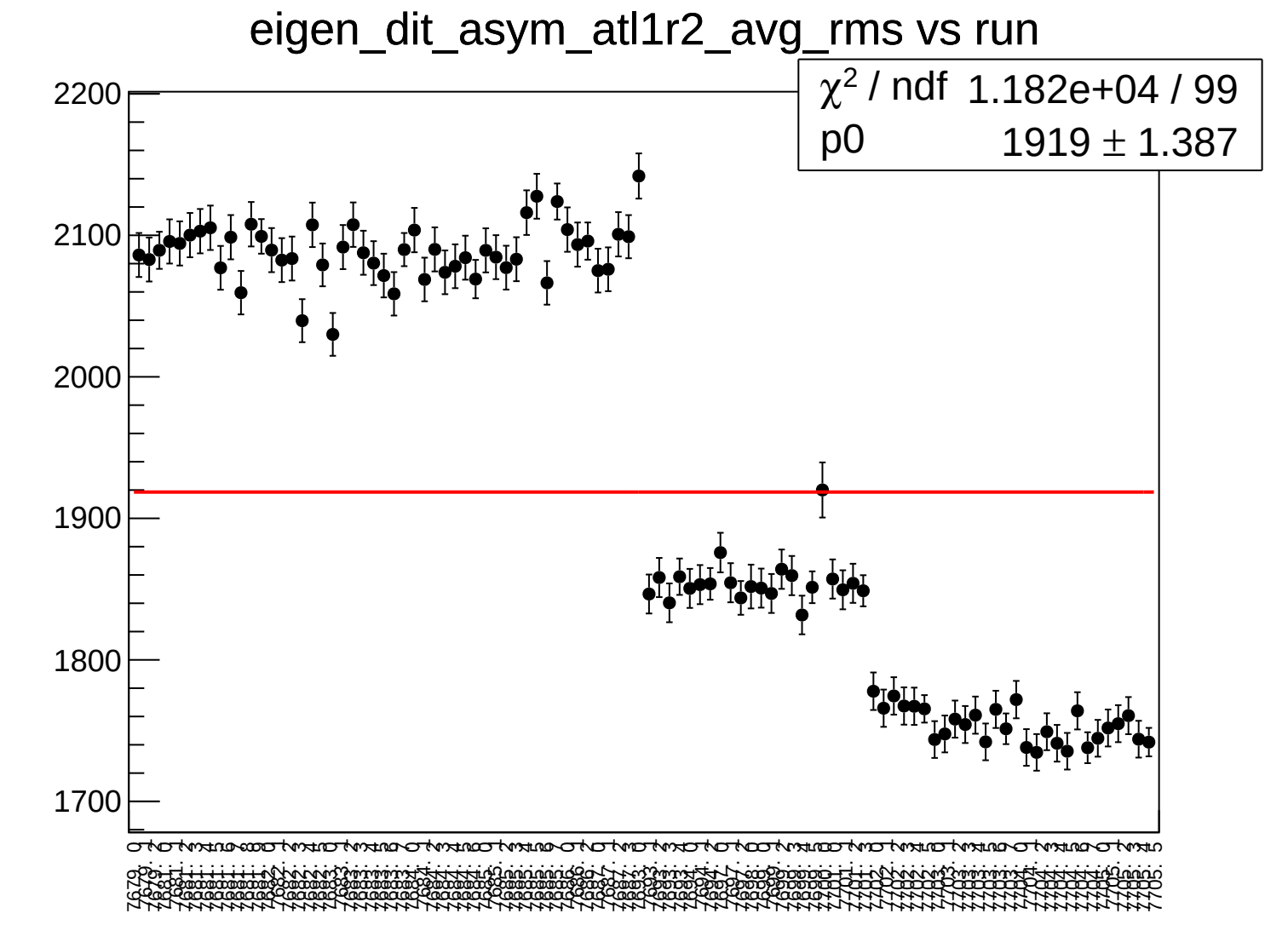
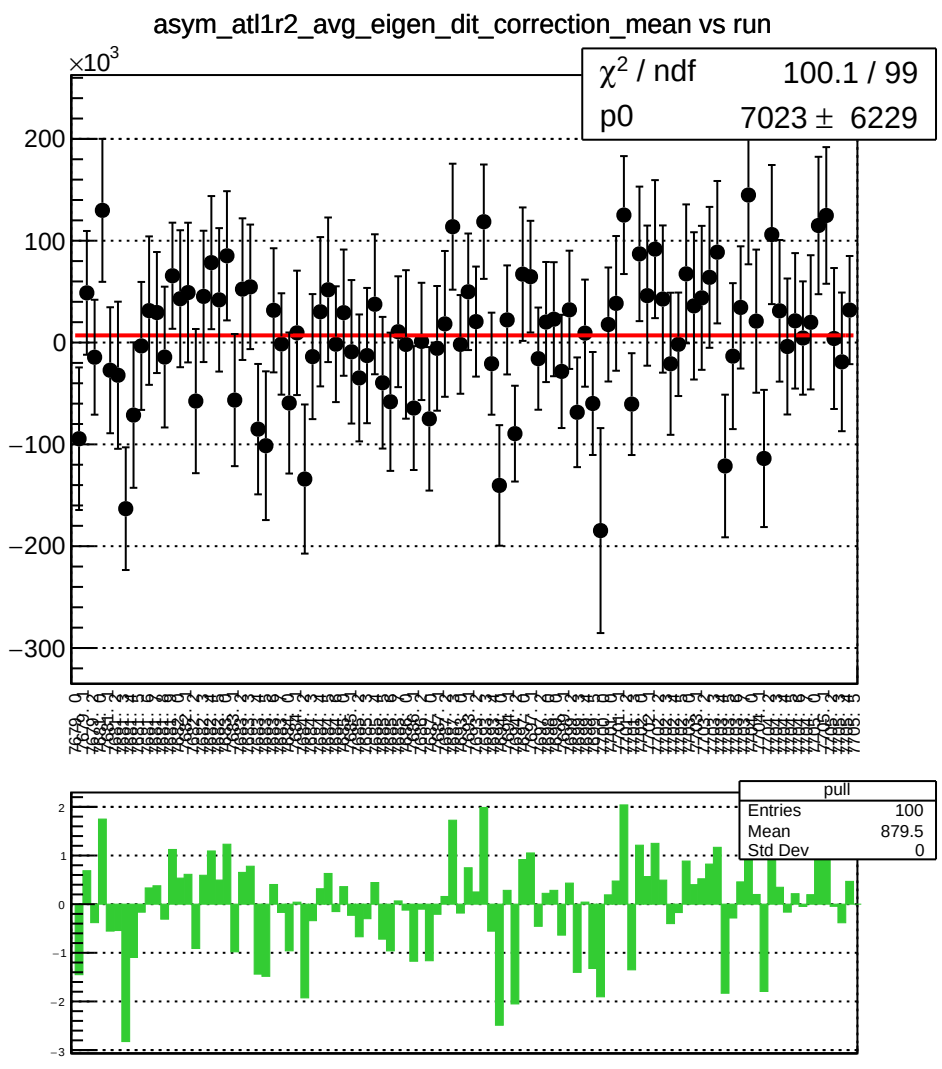
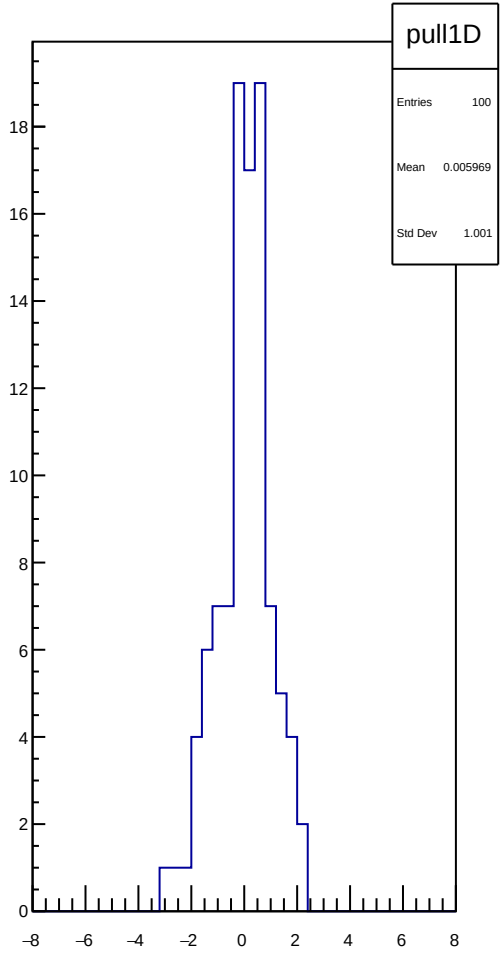
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 1.182e+04 / 99
p0 1919 ± 1.387
2200
2100
2000
1900
1800
1700


asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 100.1 / 99
p0 7023 ± 6229
200
100
0
−100
−200
−300
pull
Entries 100
Mean 879.5
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 100
Mean 0.005969
Std Dev 1.001
18
16
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12
10
8
6
4
2
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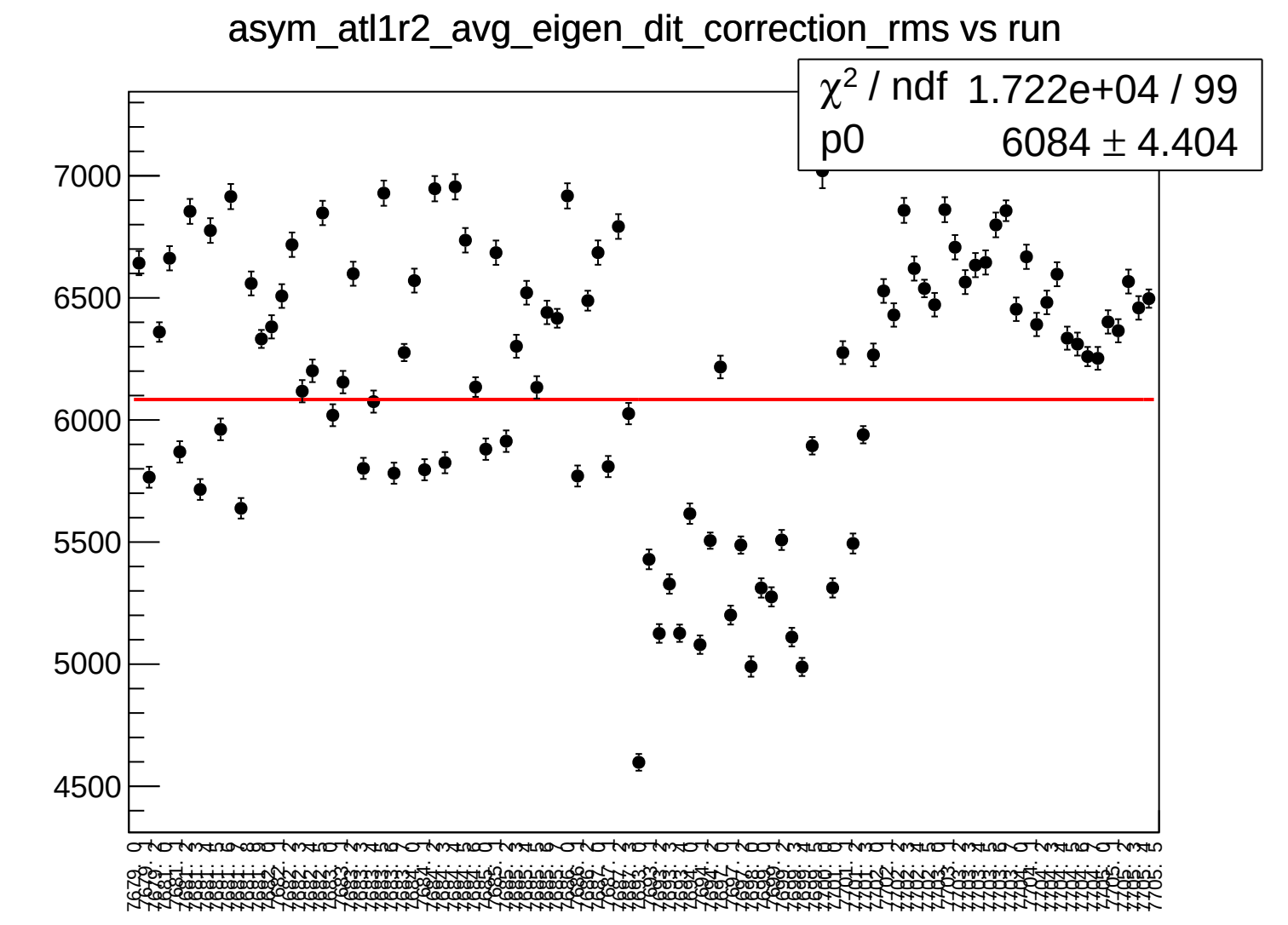
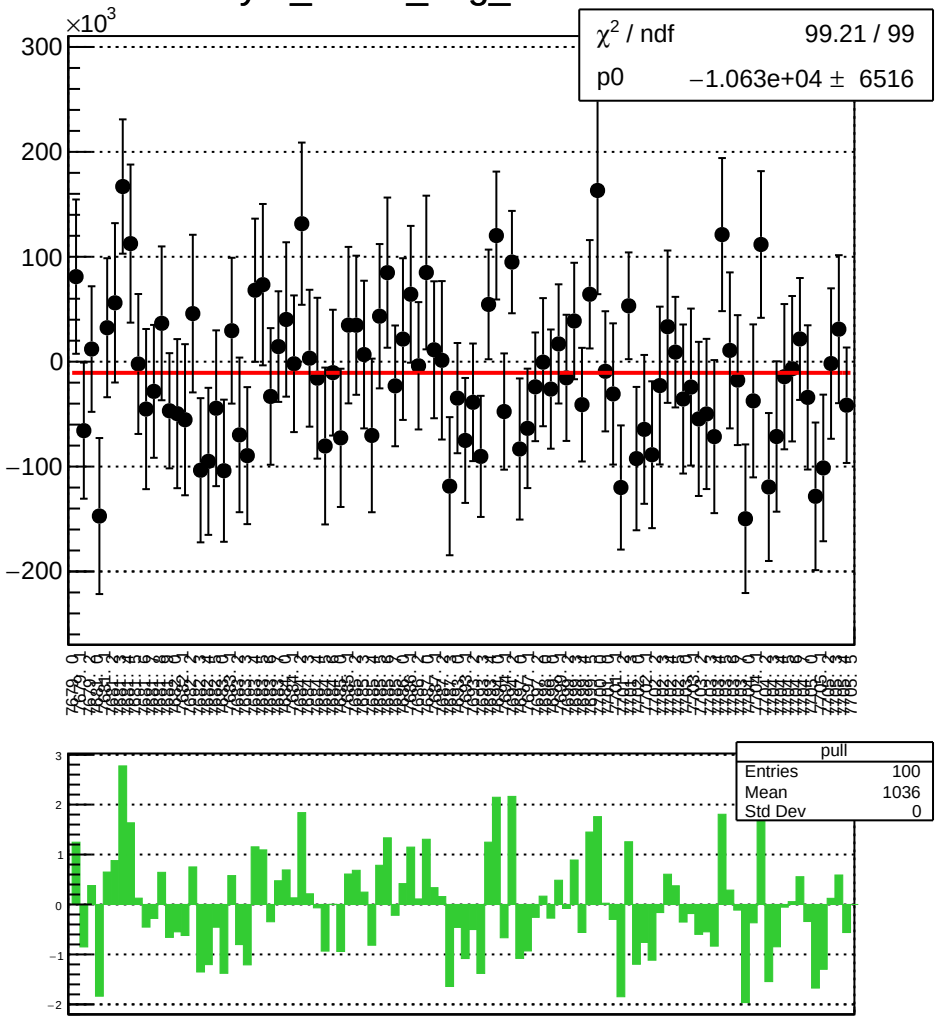
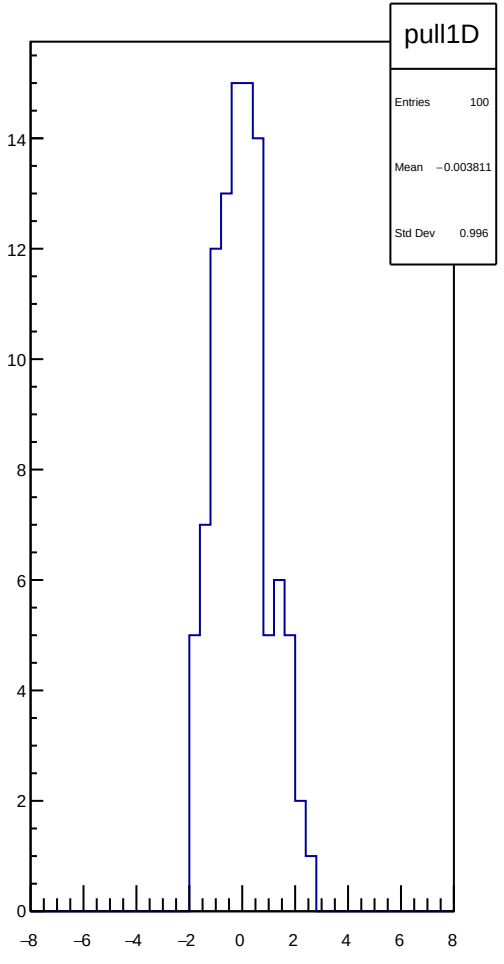
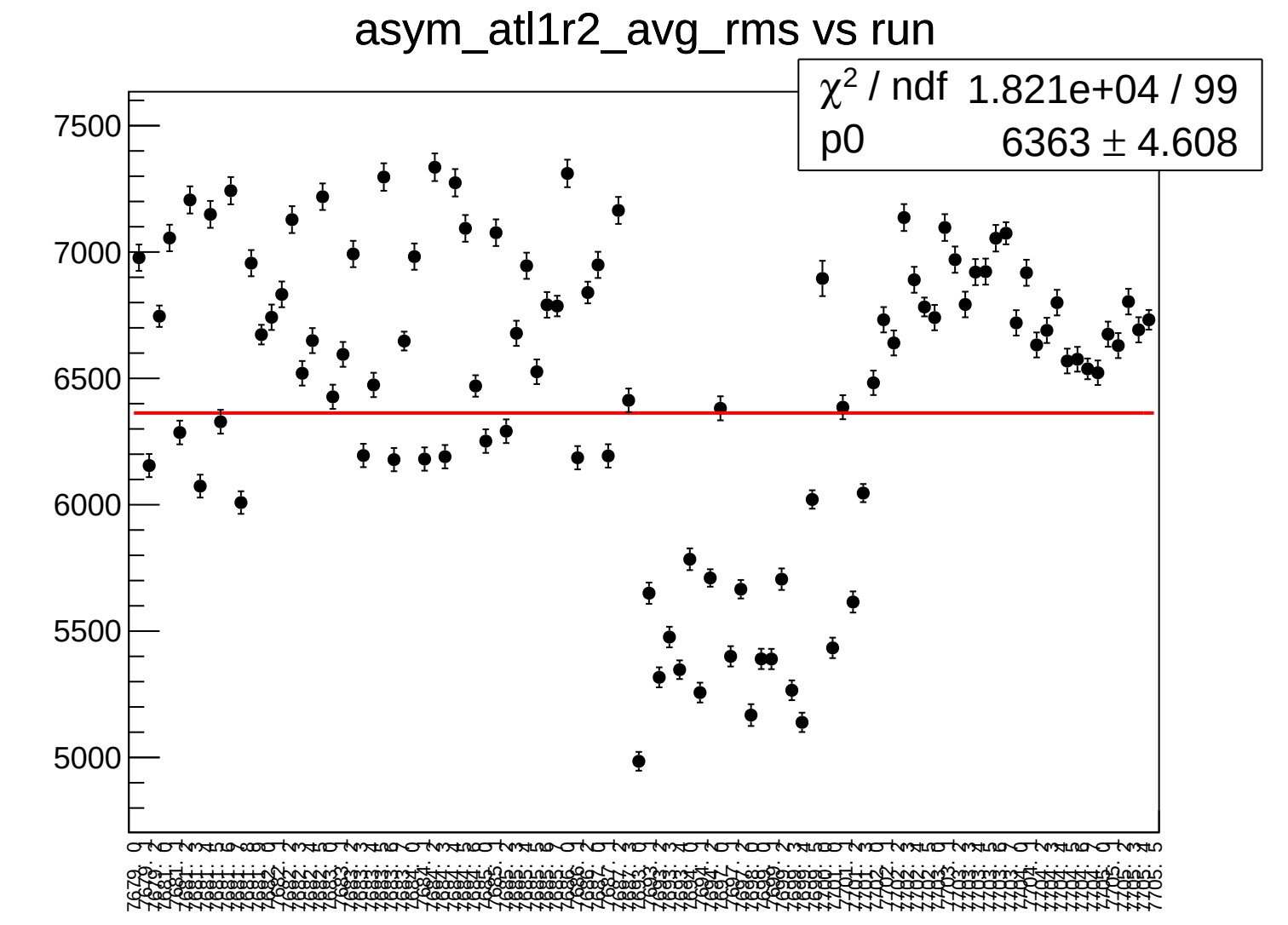
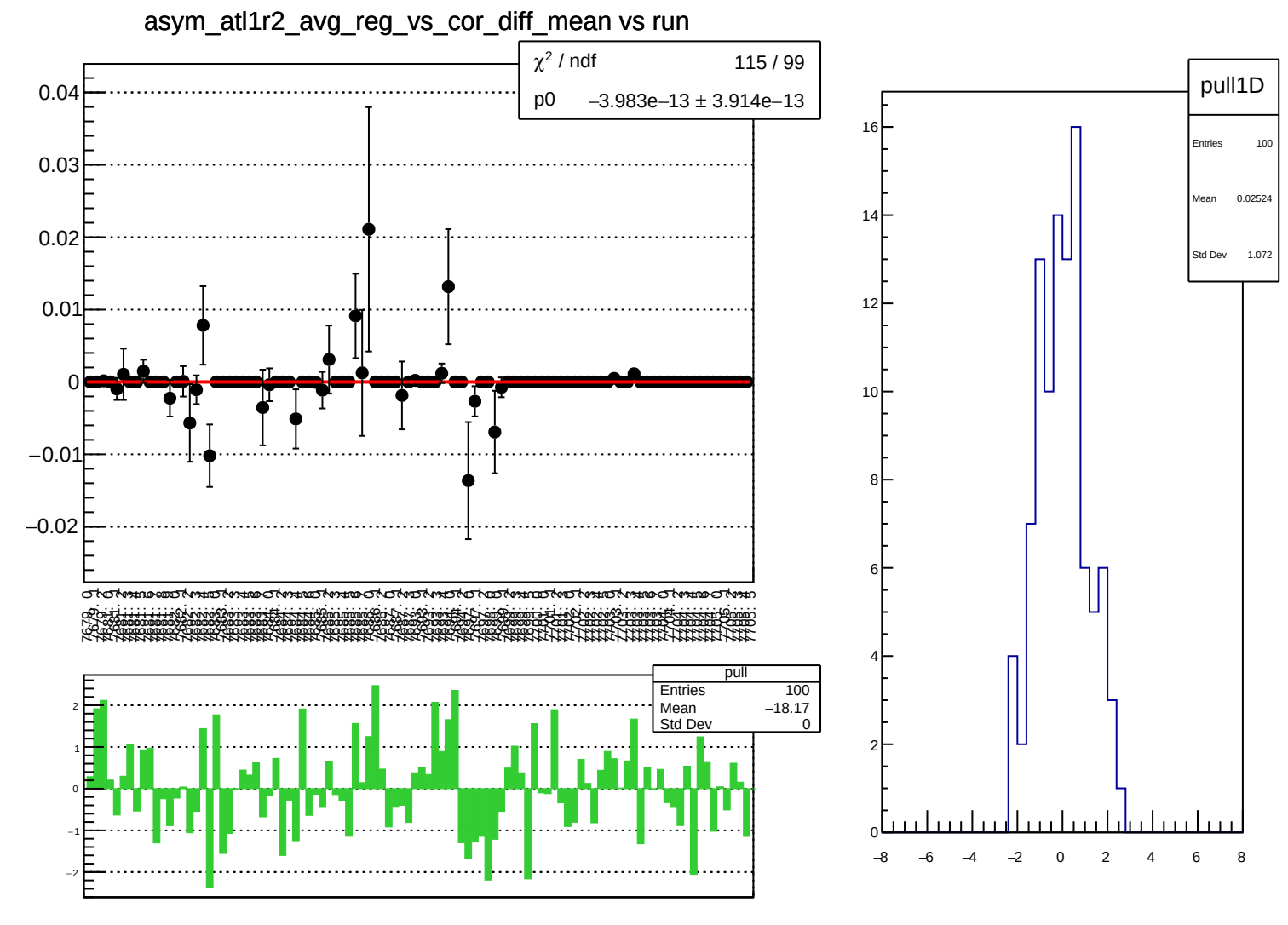
−4
−2
0
2
4
6
8

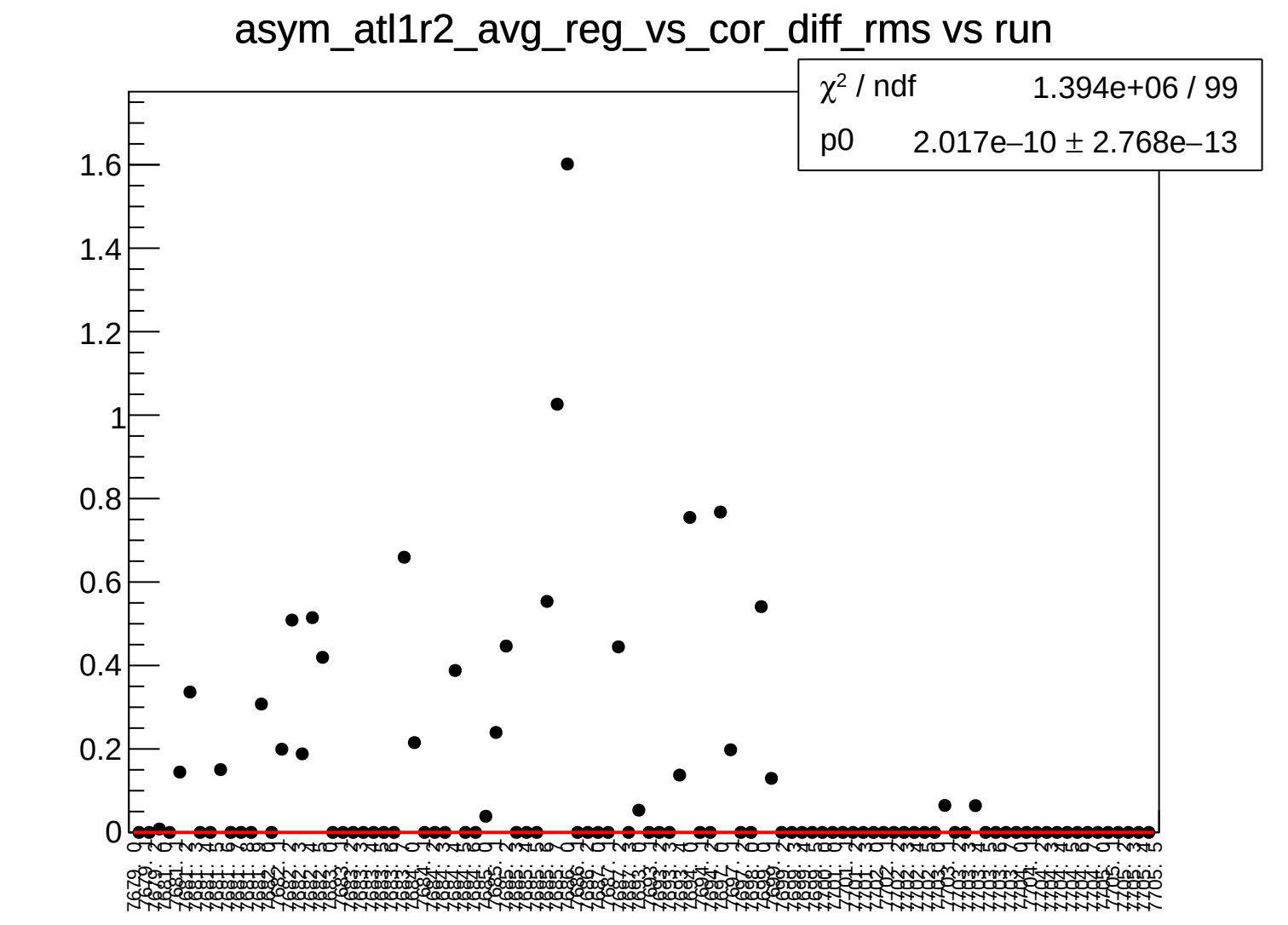

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.722e+04 / 99
p0 6084 ± 4.404
7000
6500
6000
5500
5000
4500

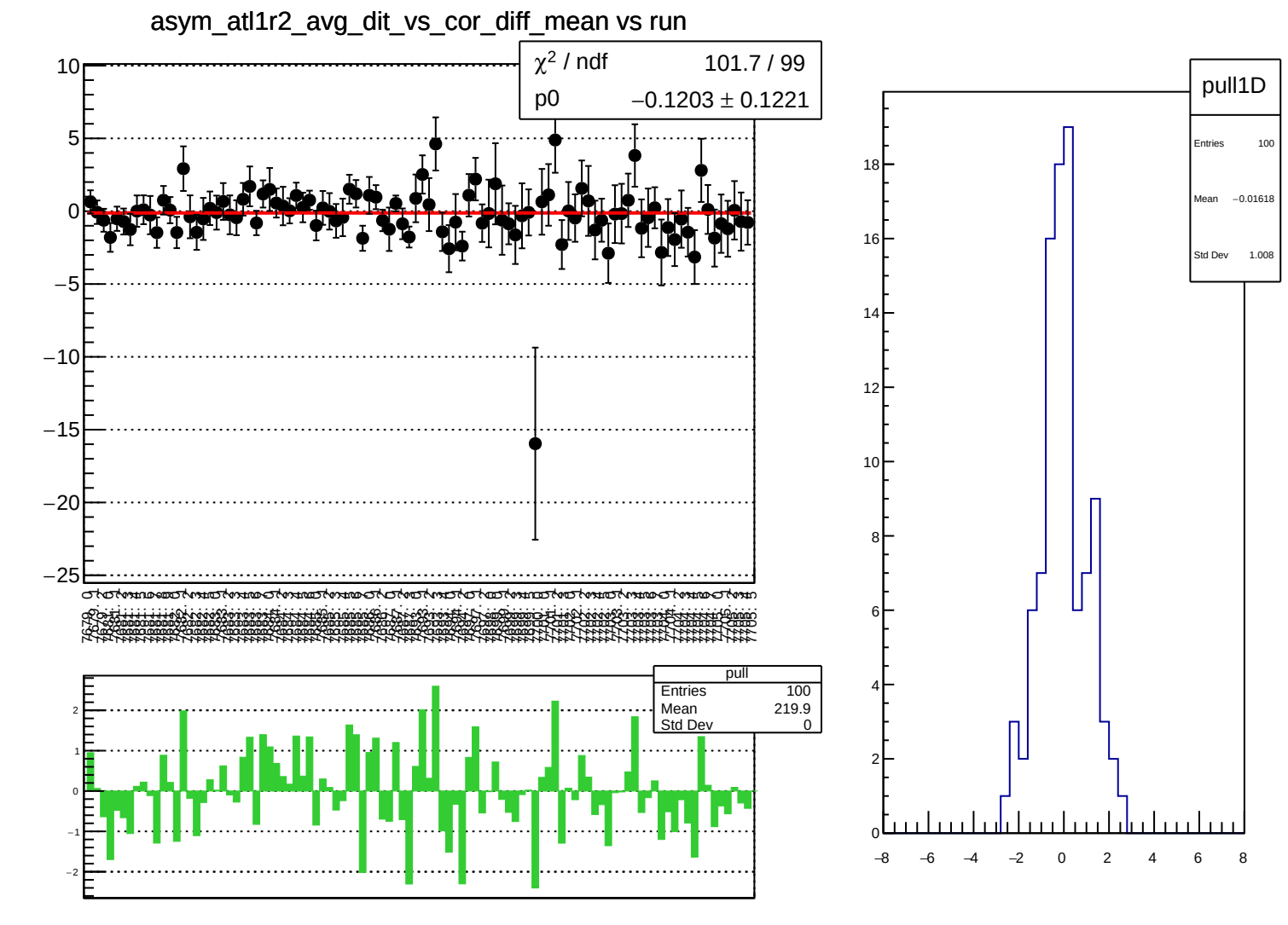

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 99.21 / 99
p0 −1.063e+04 ± 6516
pull
Entries 100
Mean 1036
Std Dev 0

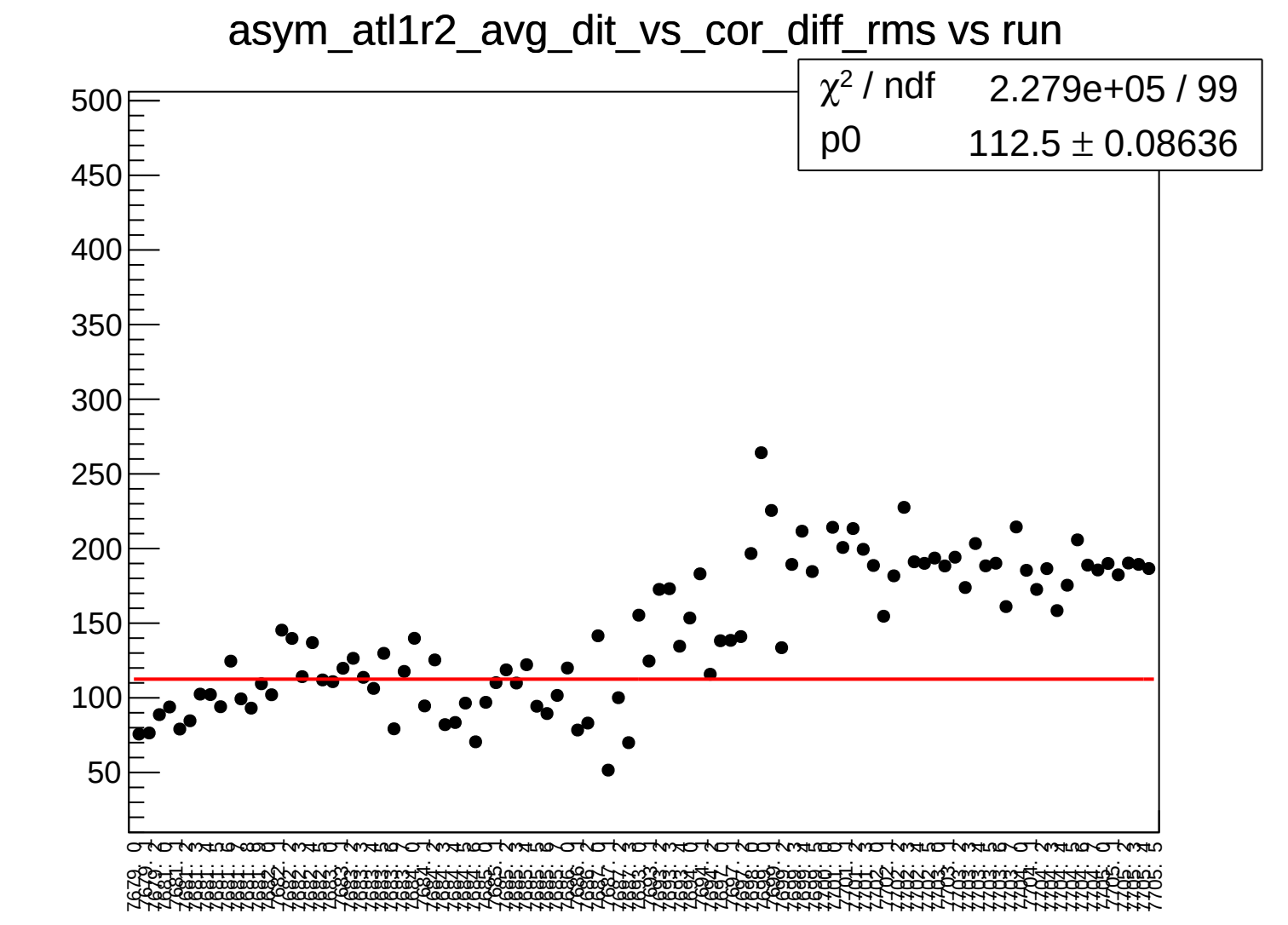

pull1D
Entries 100
Mean −0.003811
Std Dev 0.996

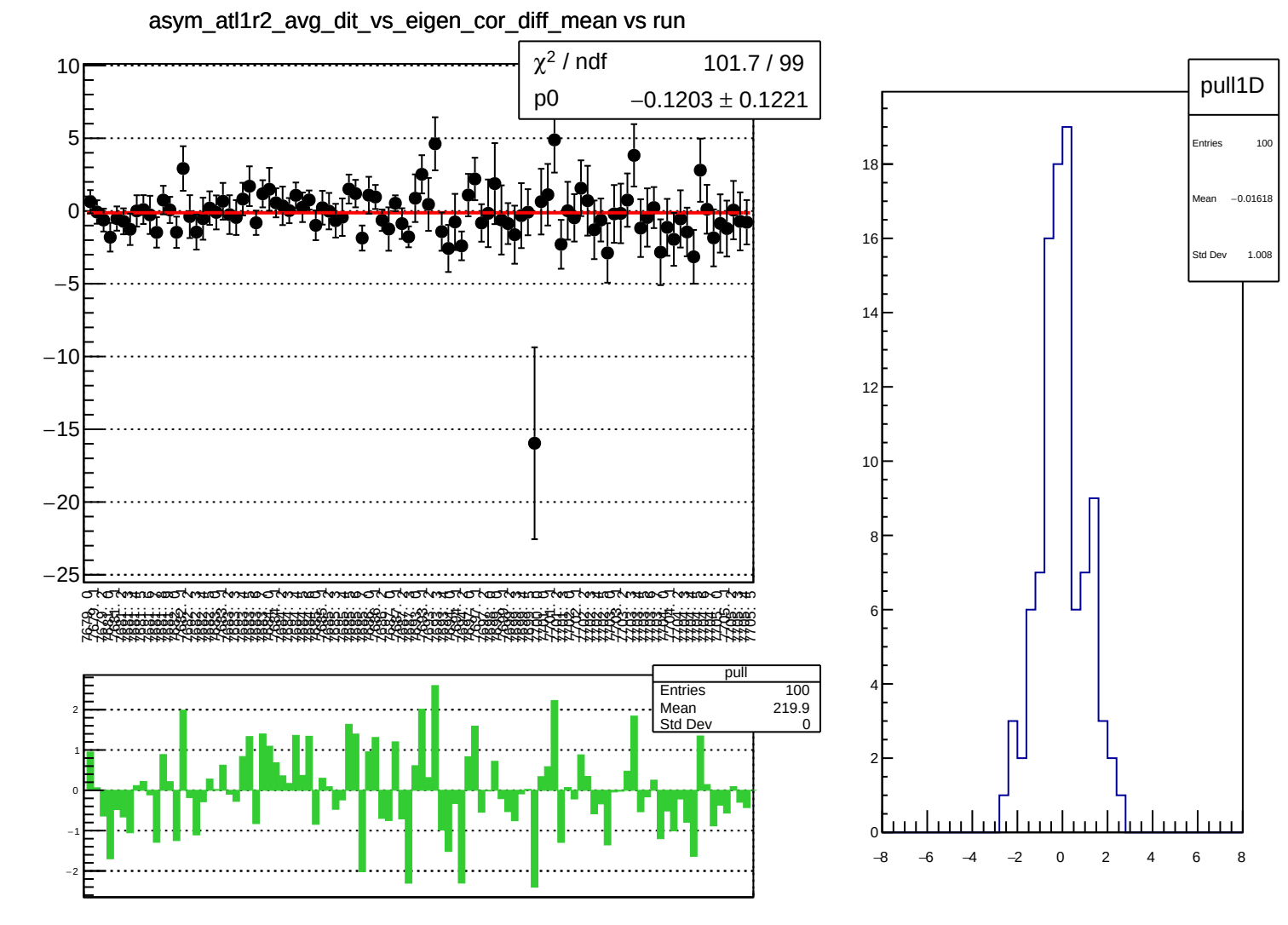

asym_atl1r2_avg_rms vs run
χ² / ndf 1.821e+04 / 99
p0 6363 ± 4.608
7500
7000
6500
6000
5500
5000

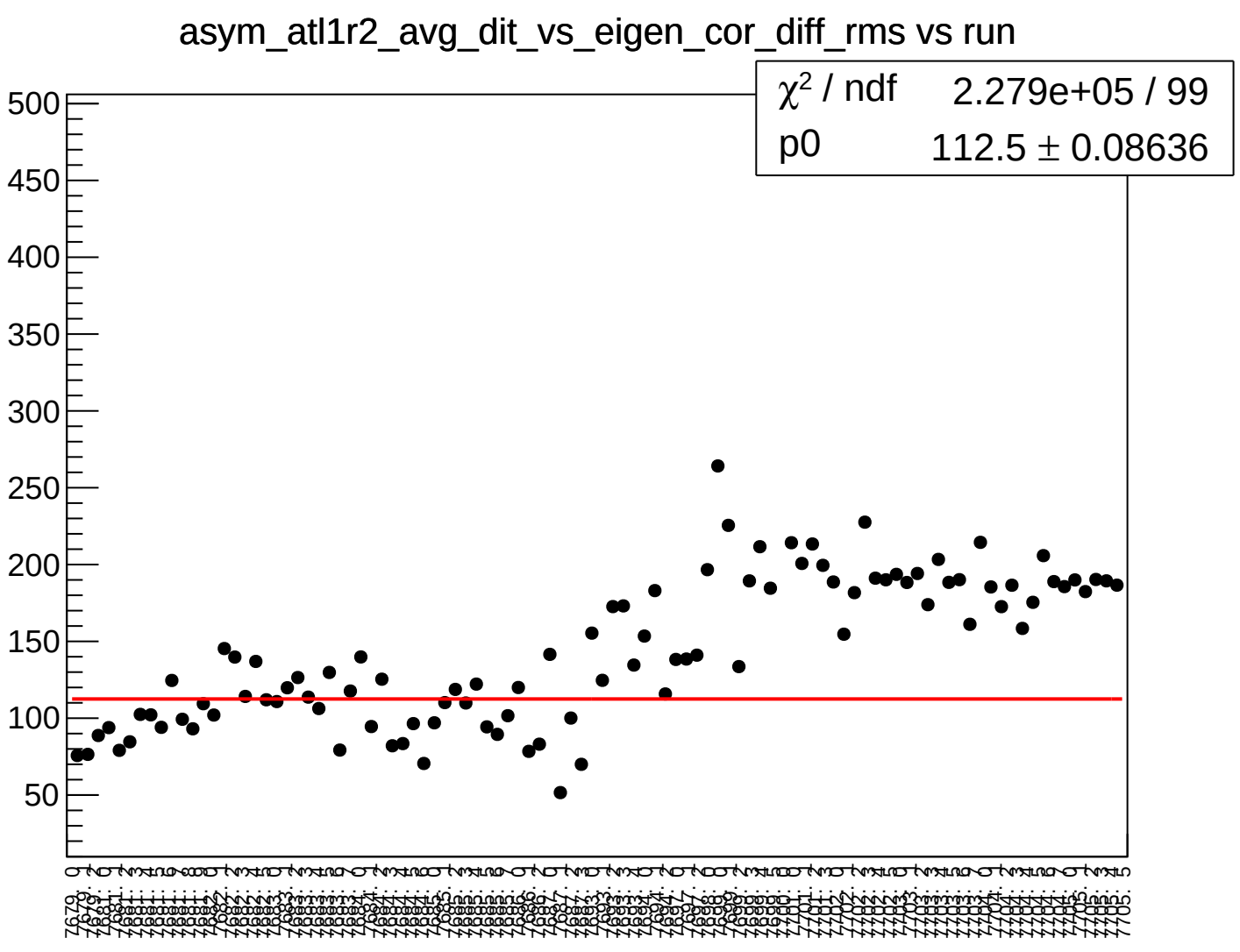

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 115 / 99
p0 −3.983e−13 ± 3.914e−13
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 100
Mean −18.17
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.02524
Std Dev 1.072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

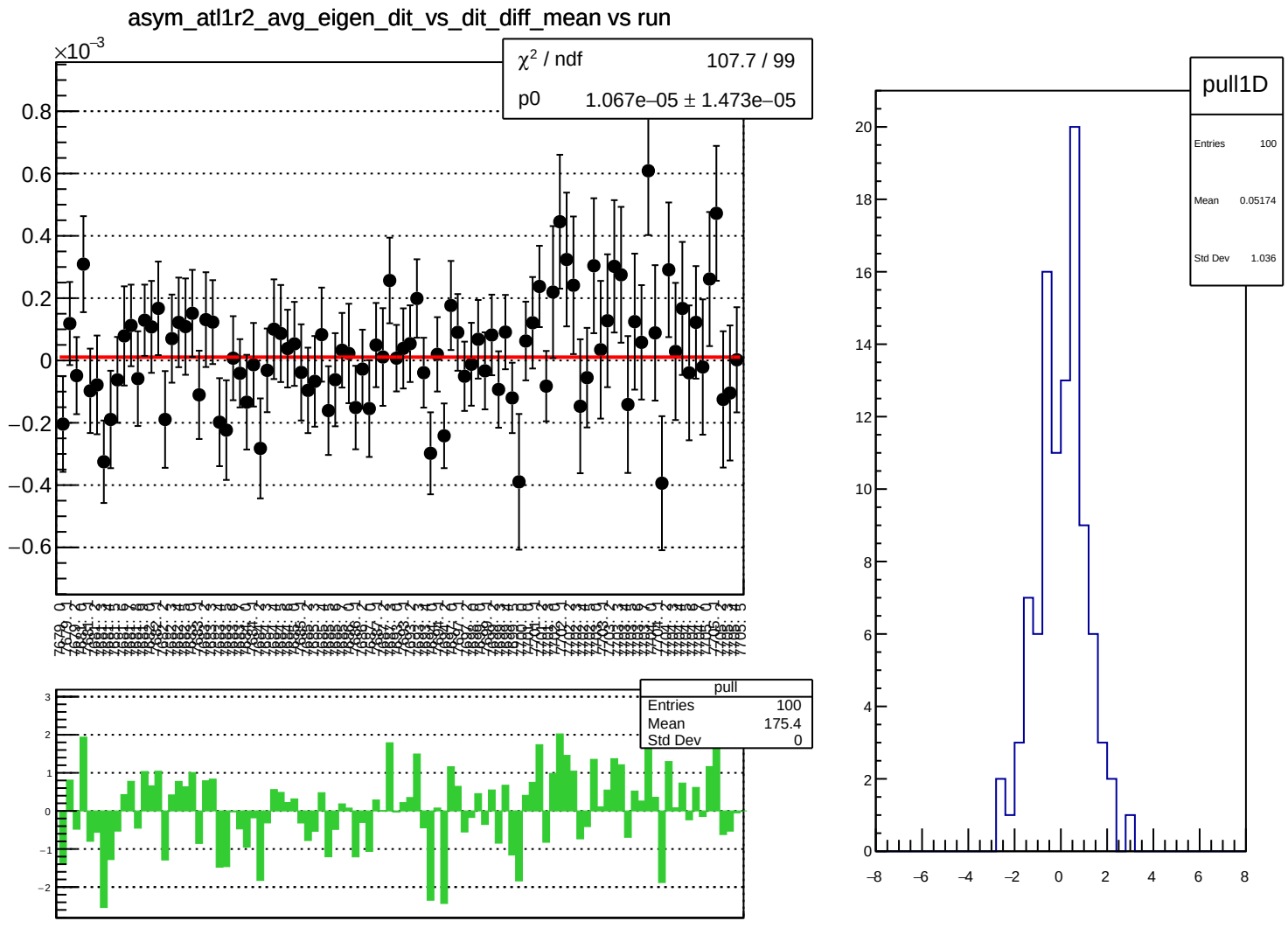

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.394e+06 / 99
p0 2.017e−10 ± 2.768e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

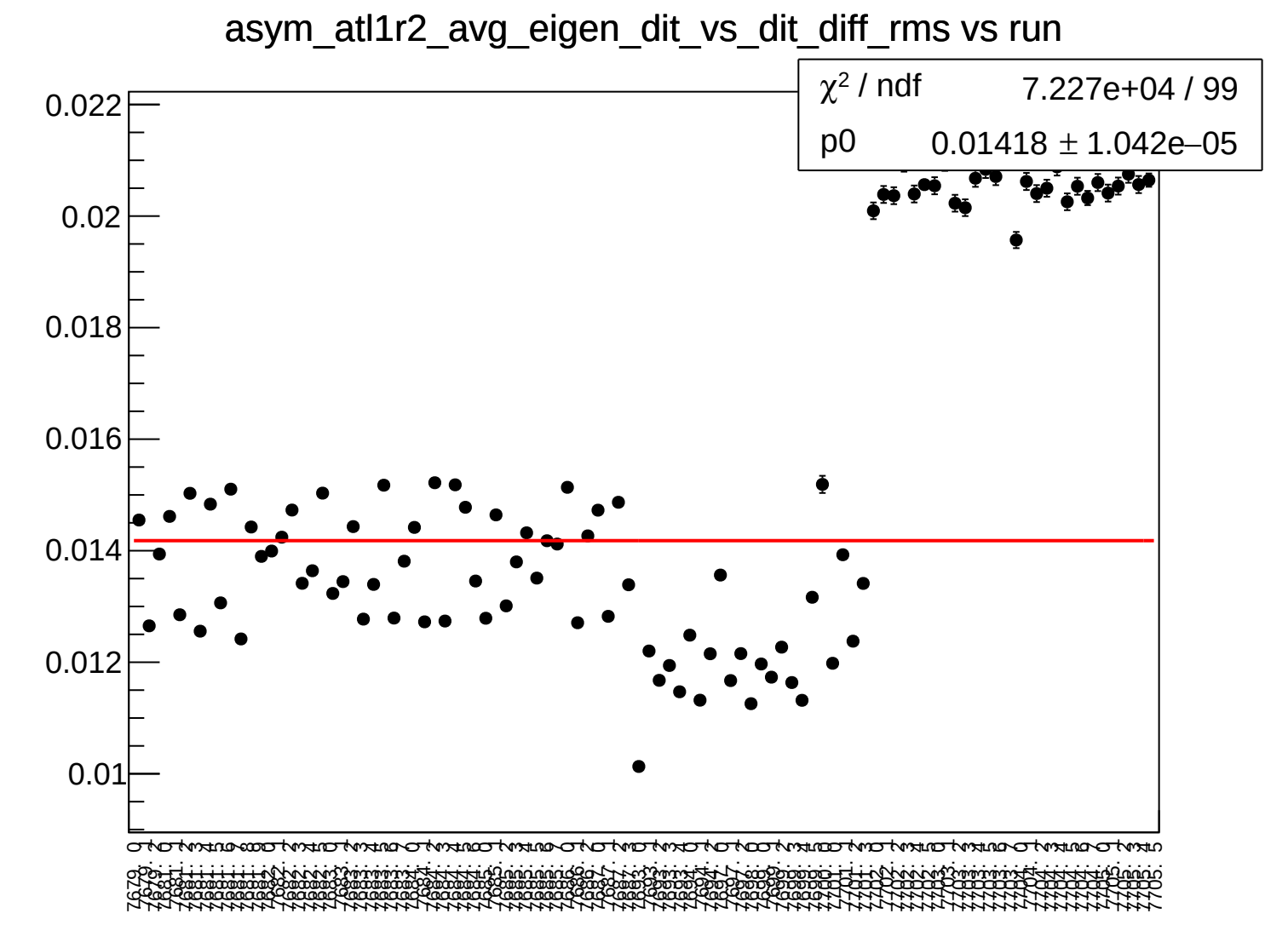

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 101.7 / 99
p0 −0.1203 ± 0.1221
pull
Entries 100
Mean 219.9
Std Dev 0
pull1D
Entries 100
Mean −0.01618
Std Dev 1.008

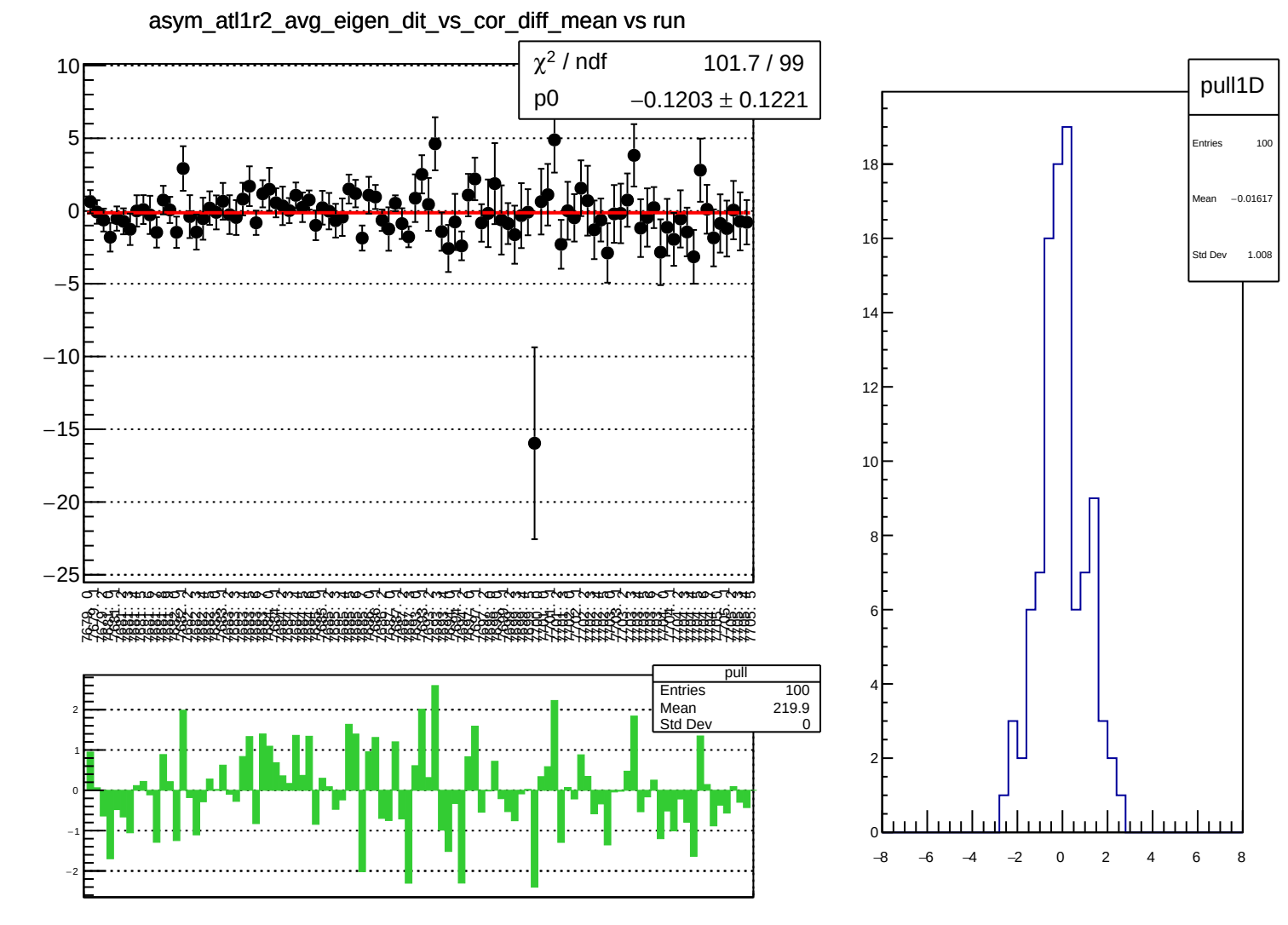

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.279e+05 / 99
p0 112.5 ± 0.08636
500
450
400
350
300
250
200
150
100
50

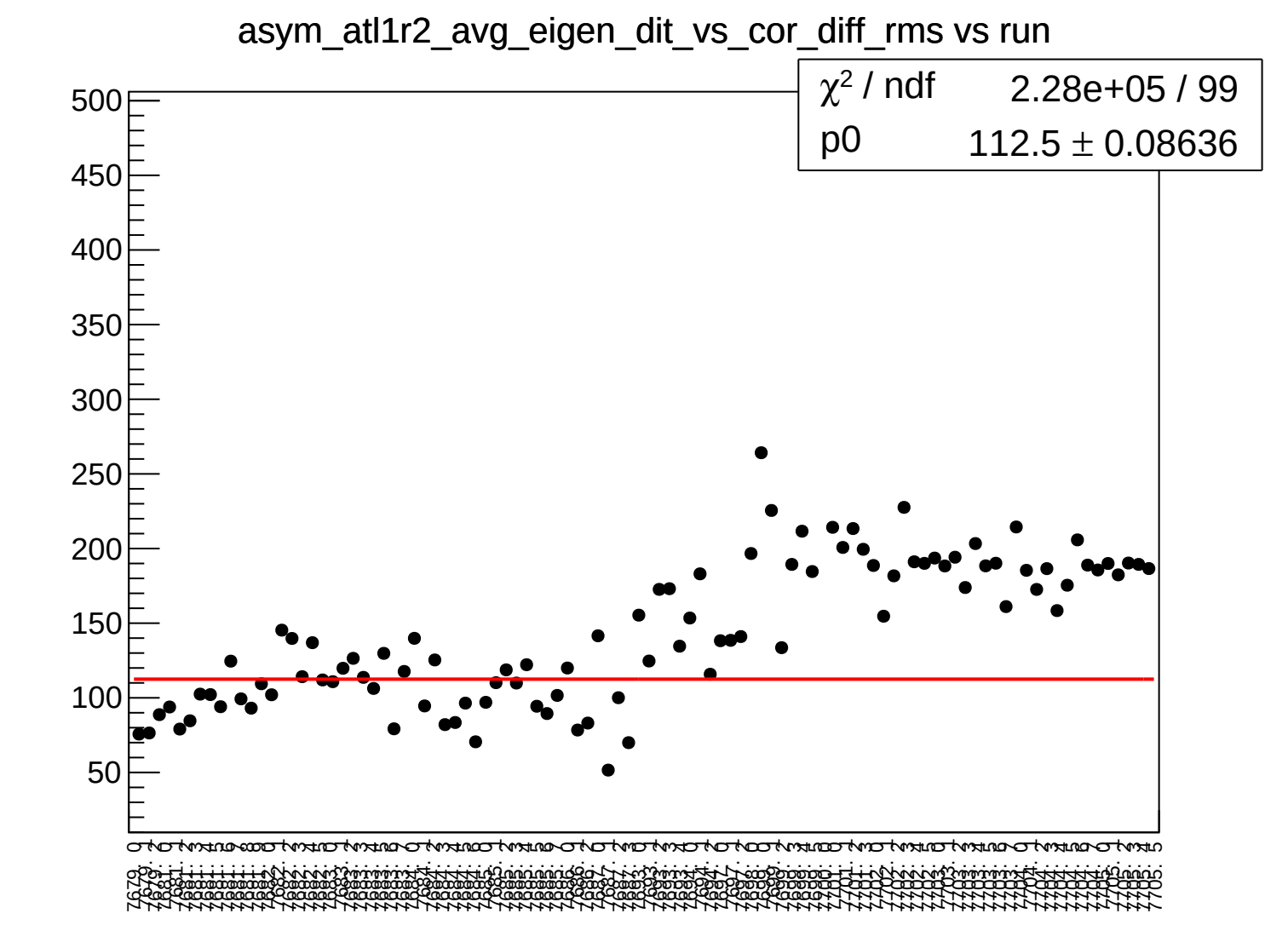

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.7 / 99
p0 −0.1203 ± 0.1221
pull
Entries 100
Mean 219.9
Std Dev 0
pull1D
Entries 100
Mean −0.01618
Std Dev 1.008

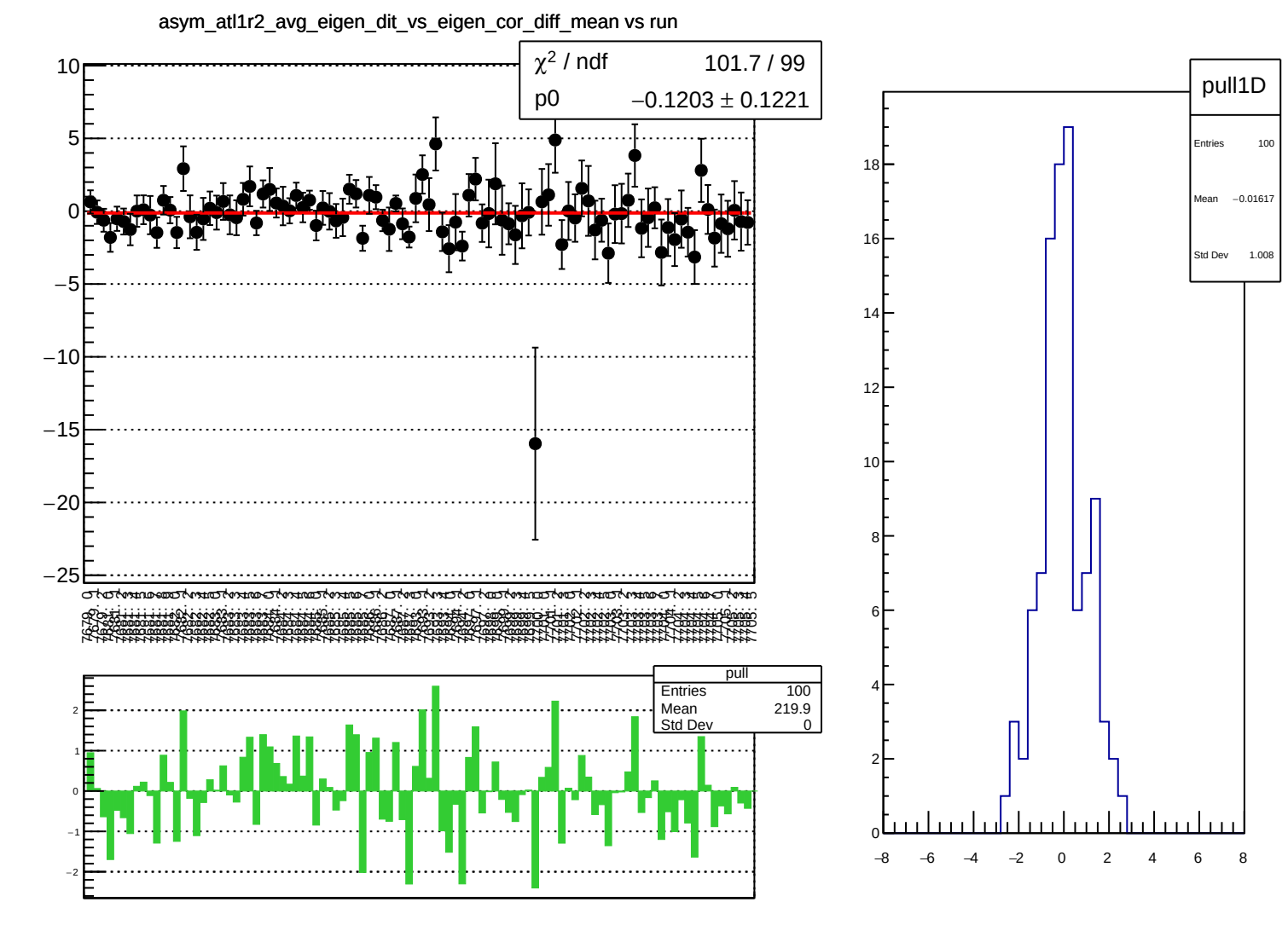

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.279e+05 / 99
p0 112.5 ± 0.08636
500
450
400
350
300
250
200
150
100
50

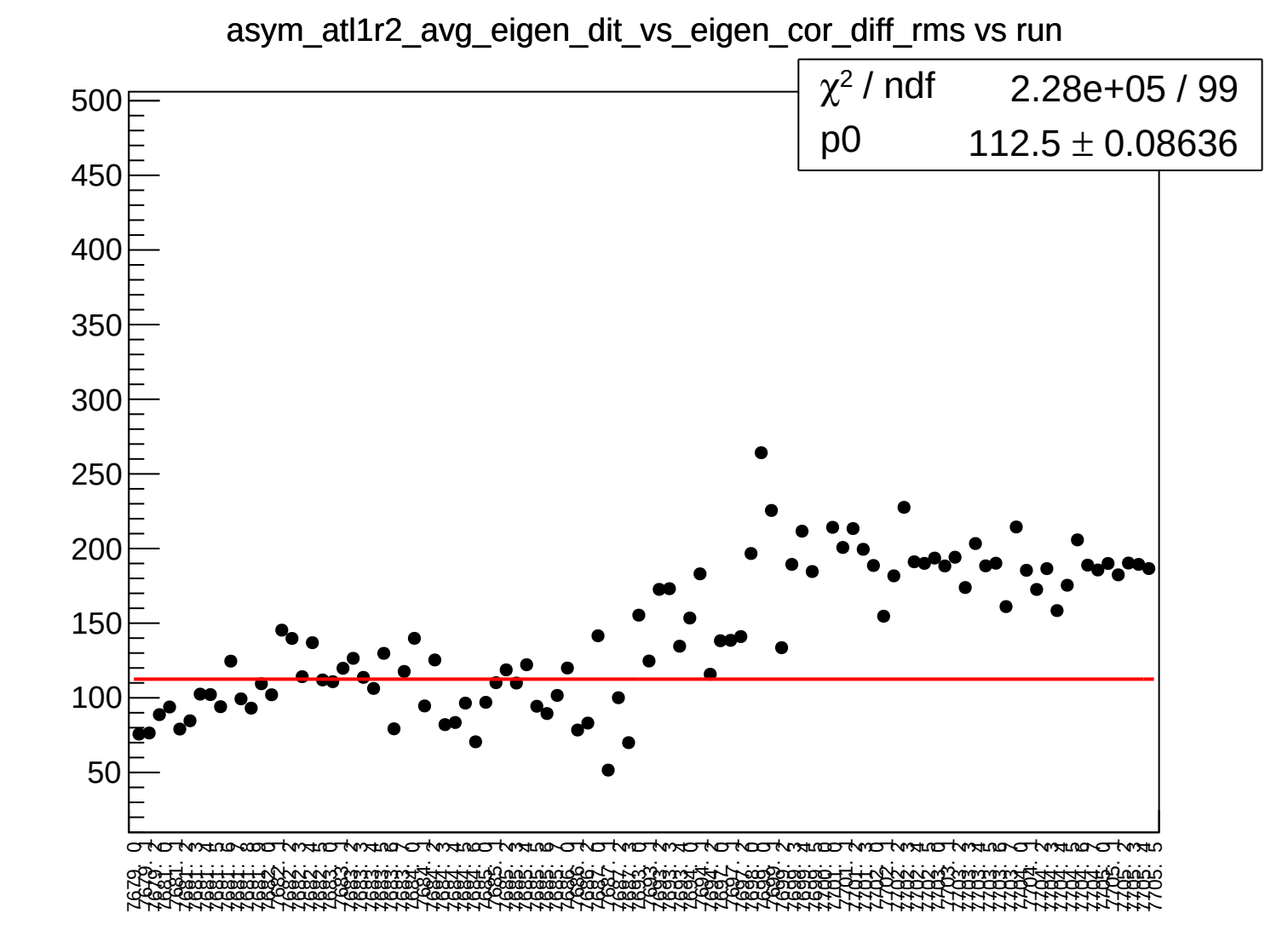

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 107.7 / 99
p0 1.067e−05 ± 1.473e−05
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 100
Mean 175.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.05174
Std Dev 1.036
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

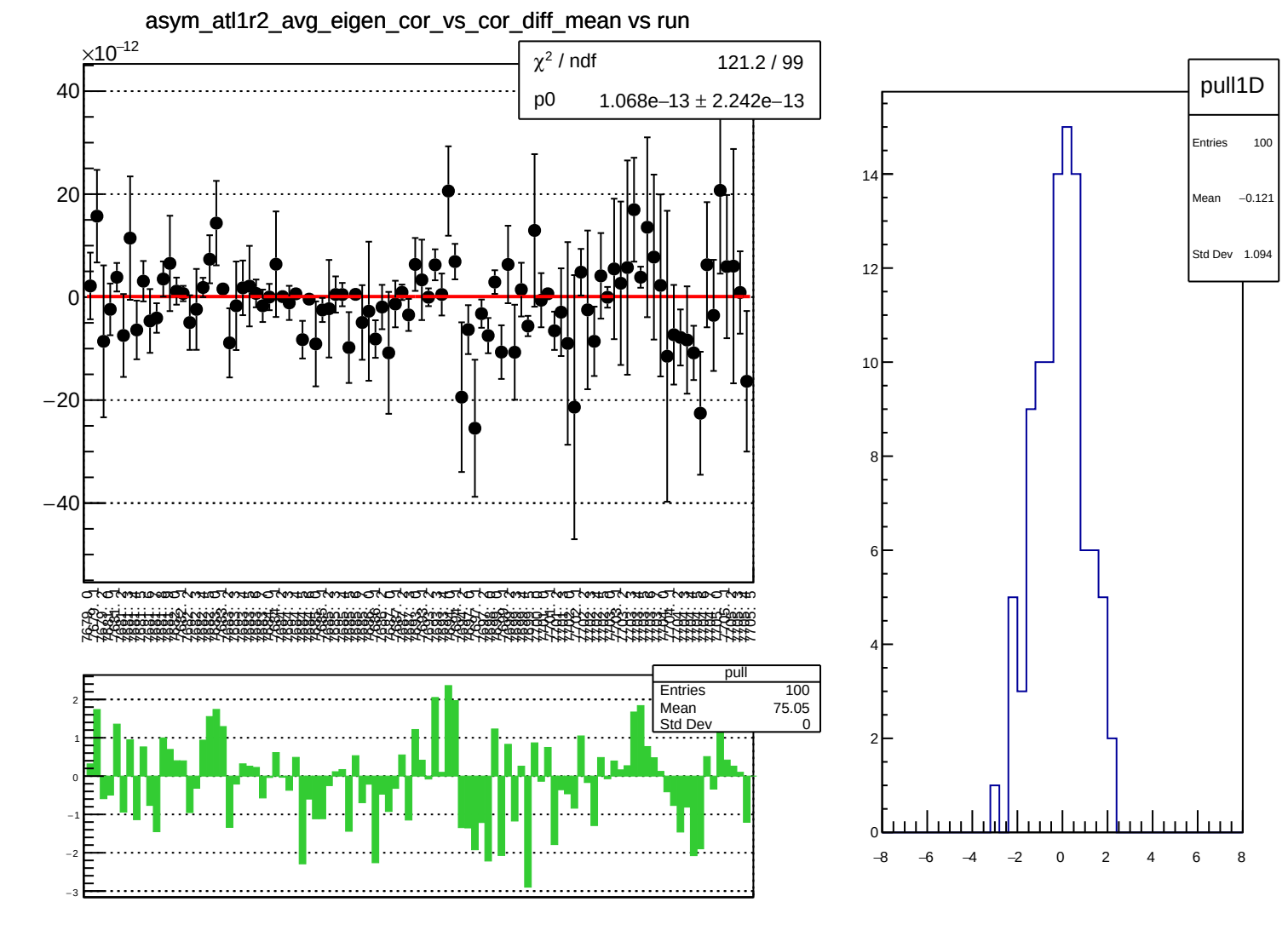

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.227e+04 / 99
p0 0.01418 ± 1.042e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01

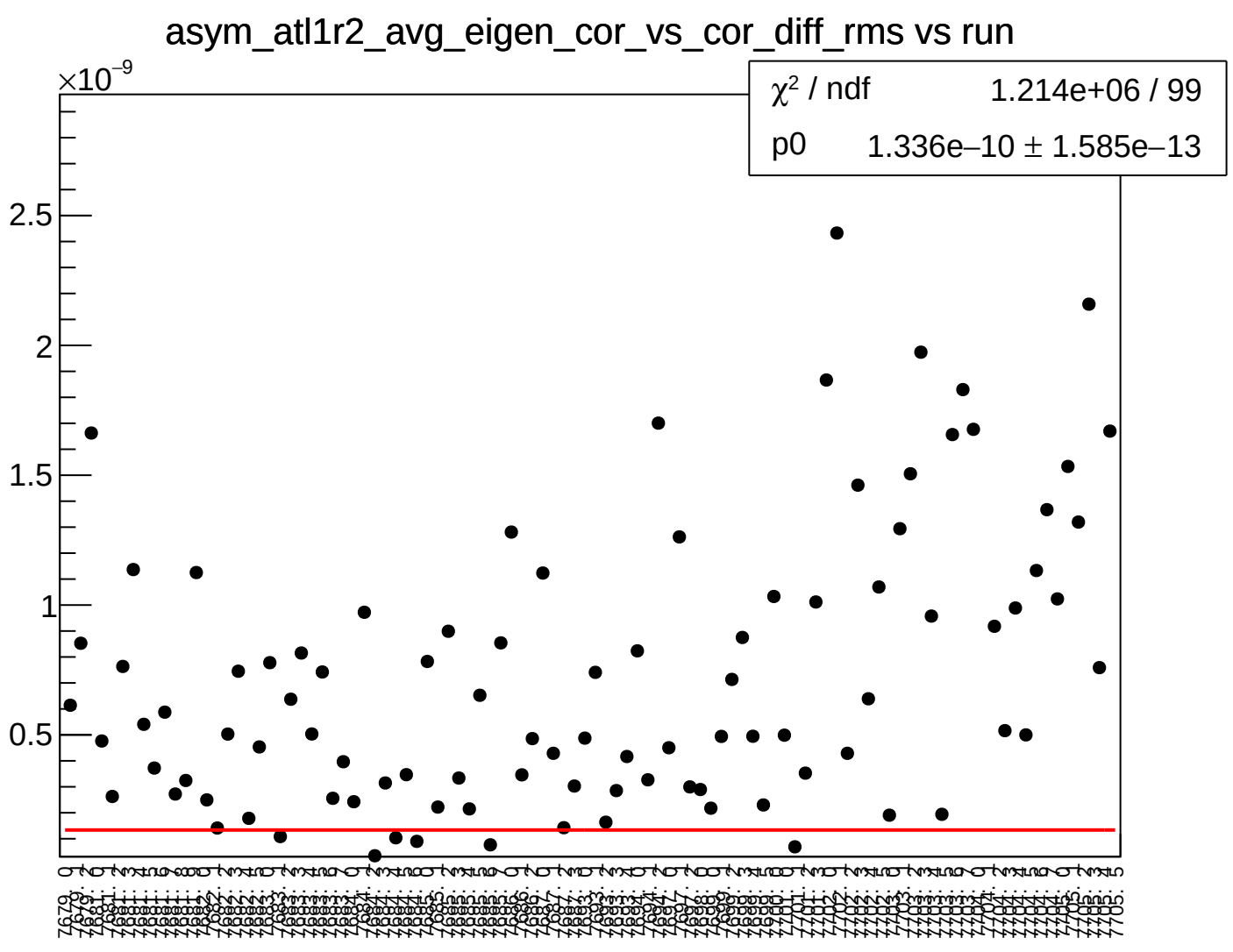

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.7 / 99
p0 −0.1203 ± 0.1221
pull
Entries 100
Mean 219.9
Std Dev 0
pull1D
Entries 100
Mean −0.01617
Std Dev 1.008

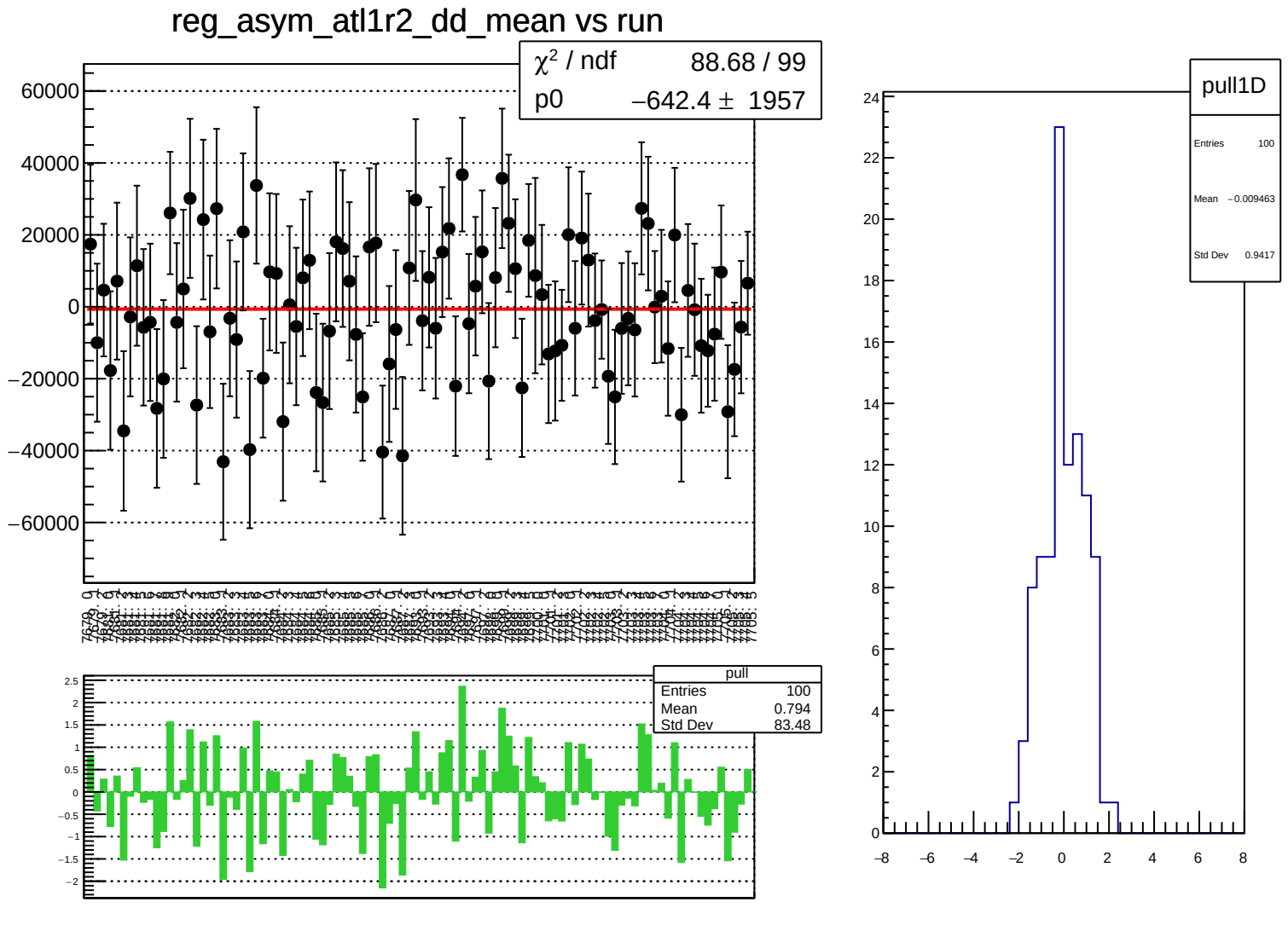

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.28e+05 / 99
p0 112.5 ± 0.08636
500
450
400
350
300
250
200
150
100
50

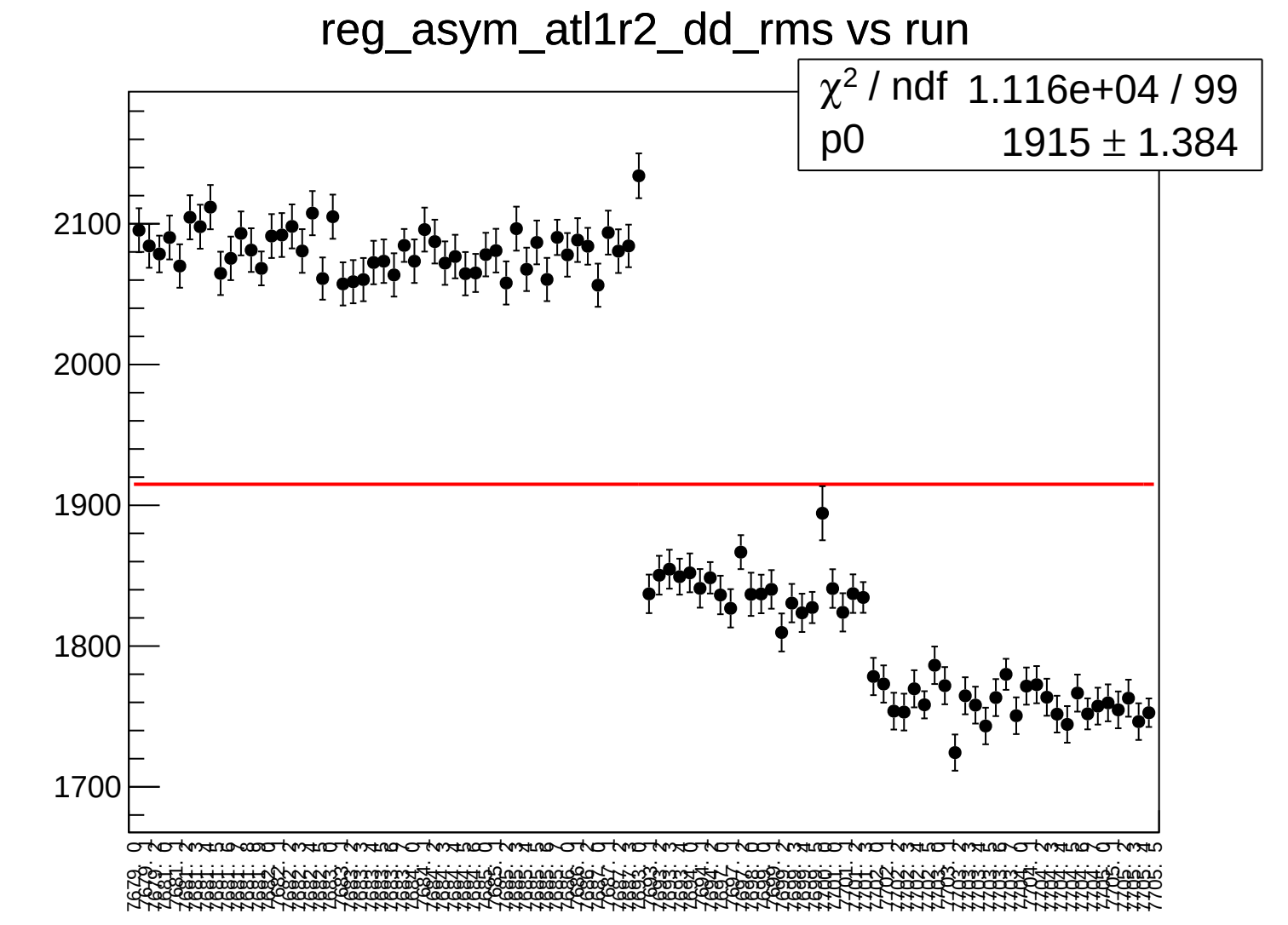

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.7 / 99
p0 −0.1203 ± 0.1221
pull
Entries 100
Mean 219.9
Std Dev 0
pull1D
Entries 100
Mean −0.01617
Std Dev 1.008

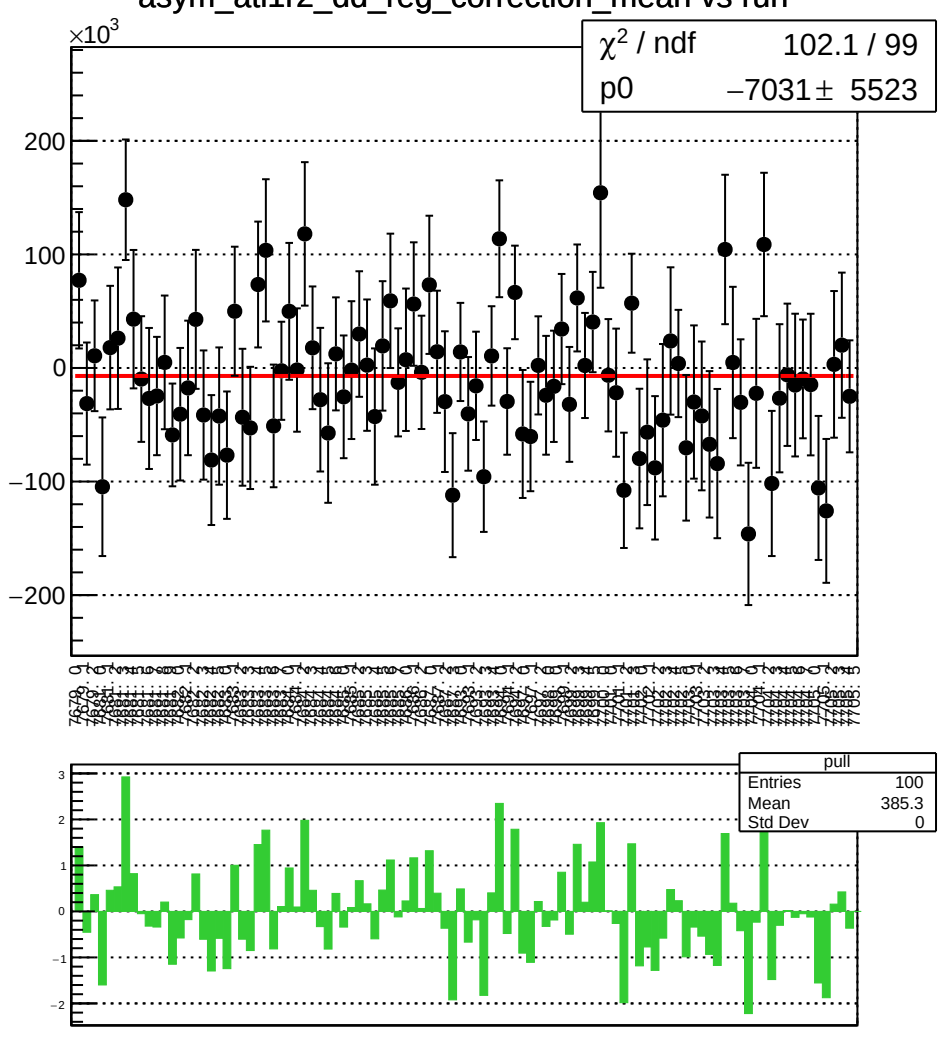

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.28e+05 / 99
p0 112.5 ± 0.08636
500
450
400
350
300
250
200
150
100
50

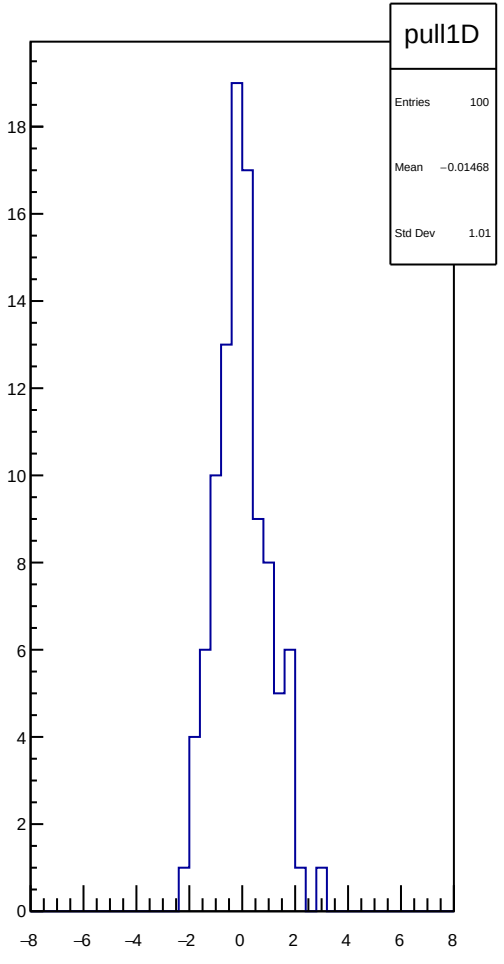

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 121.2 / 99
p0 1.068e−13 ± 2.242e−13
40
20
0
−20
−40
pull
Entries 100
Mean 75.05
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean −0.121
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

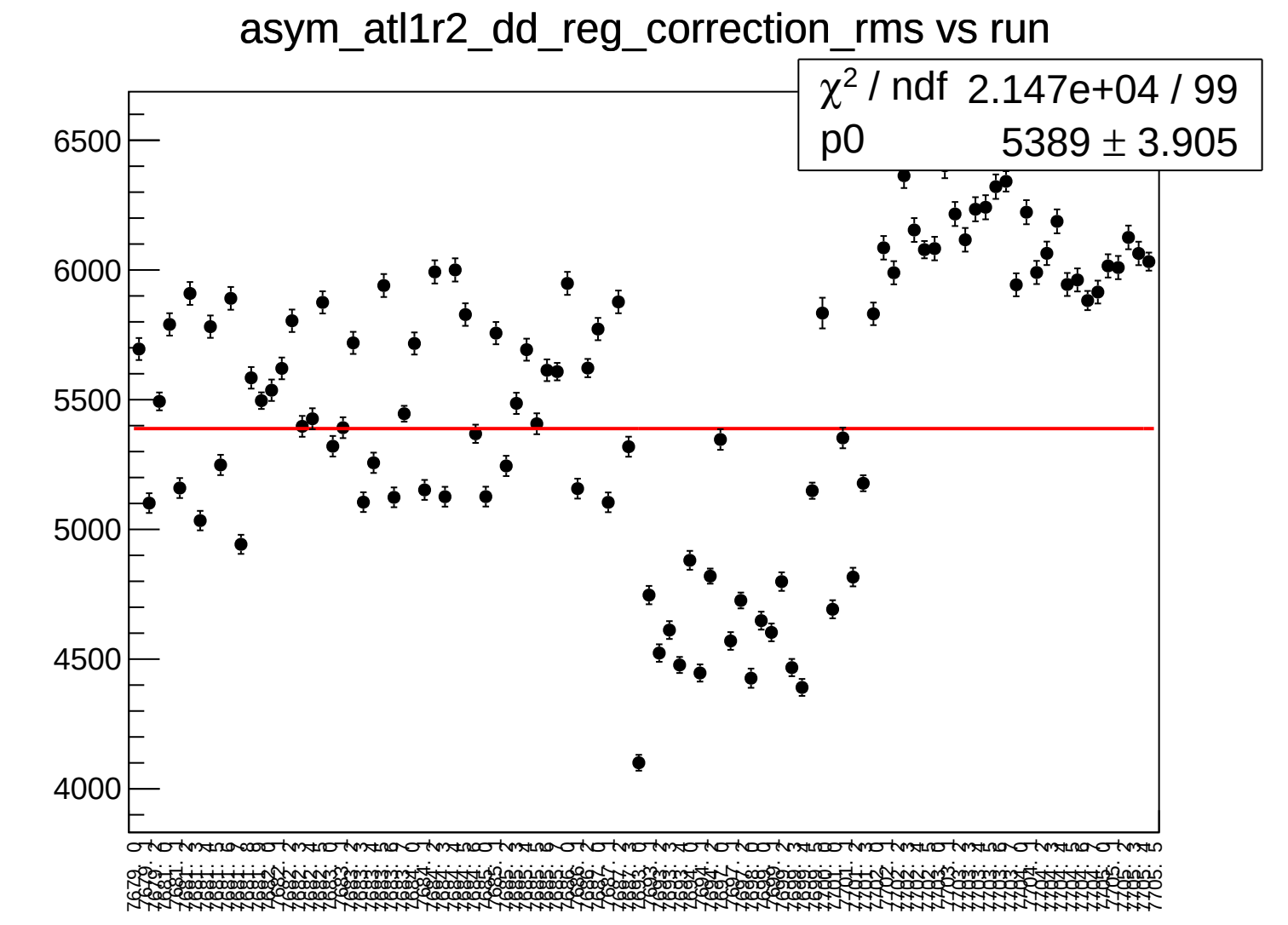

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.214e+06 / 99
p0 1.336e−10 ± 1.585e−13
2.5
2
1.5
1
0.5

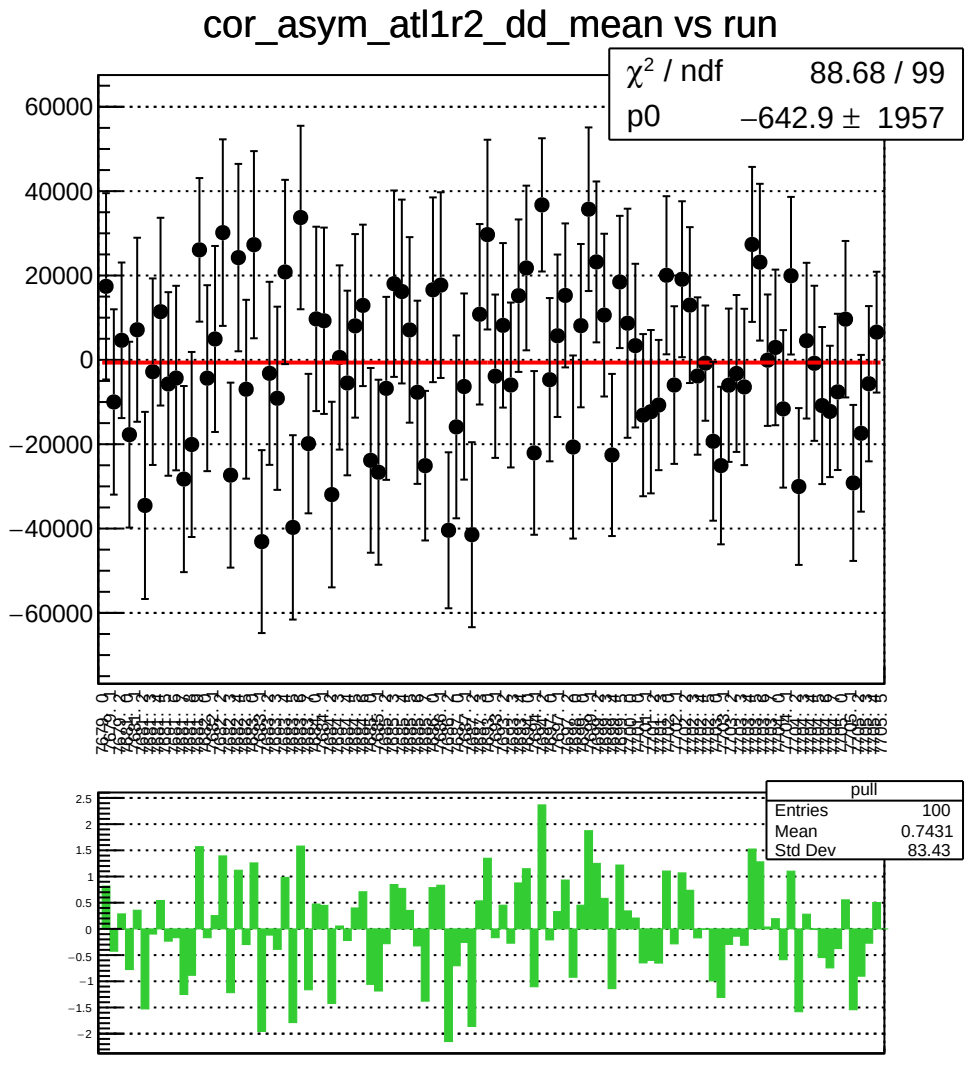

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 88.68 / 99
p0 −642.4 ± 1957
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean 0.794
Std Dev 83.48
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 100
Mean −0.009463
Std Dev 0.9417
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

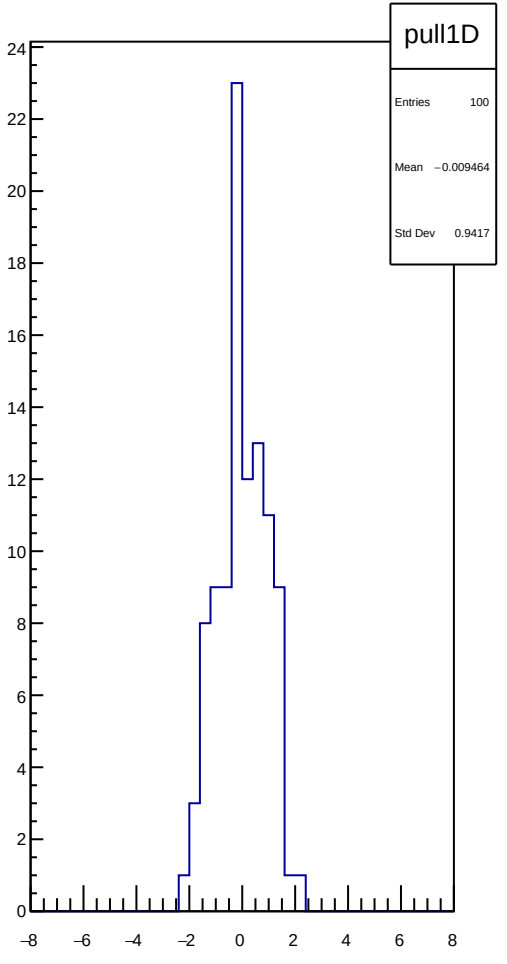

reg_asym_atl1r2_dd_rms vs run
χ^2 / ndf 1.116e+04 / 99
p0 1915 ± 1.384
2100
2000
1900
1800
1700

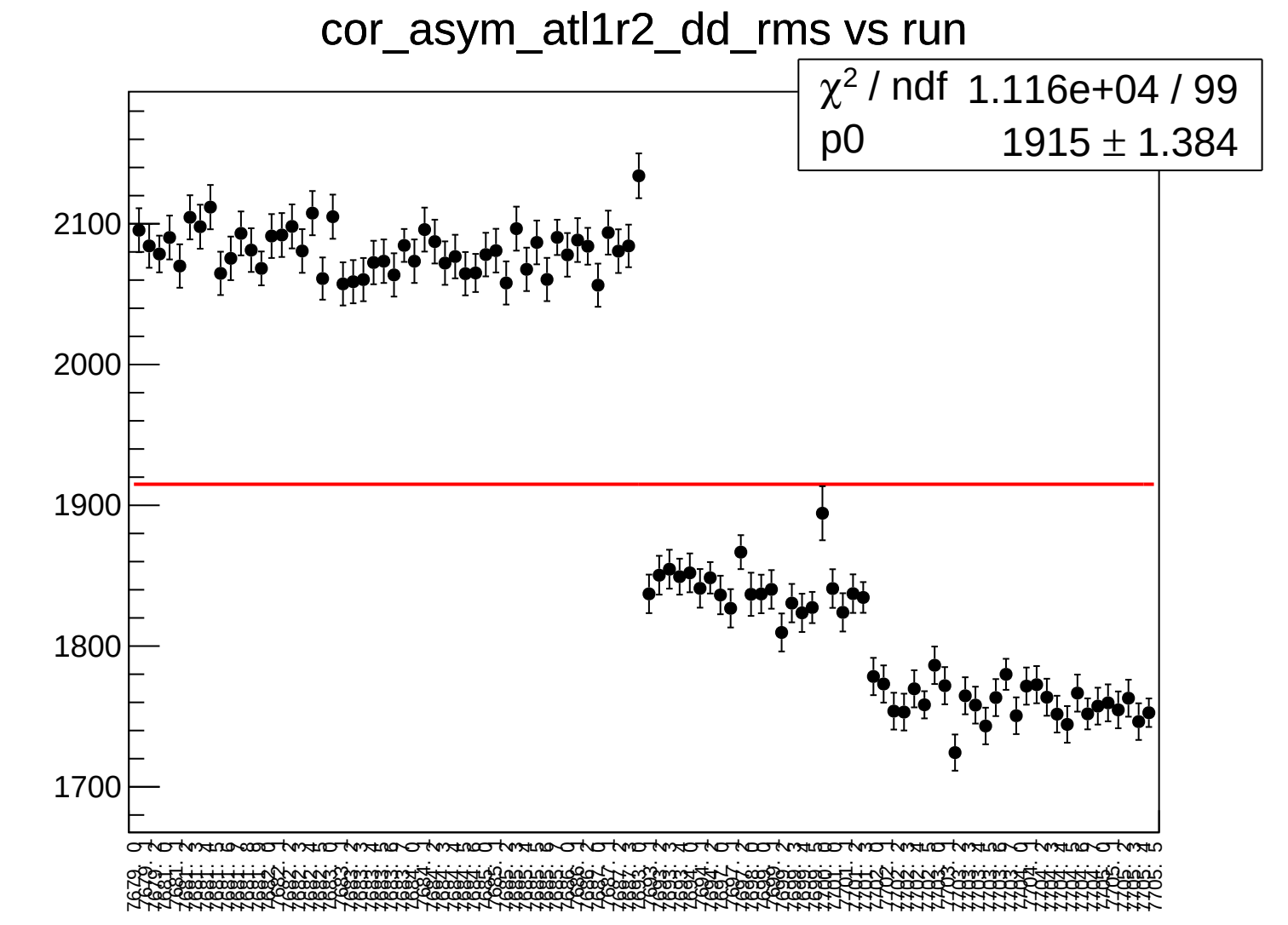

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 102.1 / 99
p0 −7031 ± 5523
200
100
0
−100
−200
pull
Entries 100
Mean 385.3
Std Dev 0
3
2
1
0
−1
−2

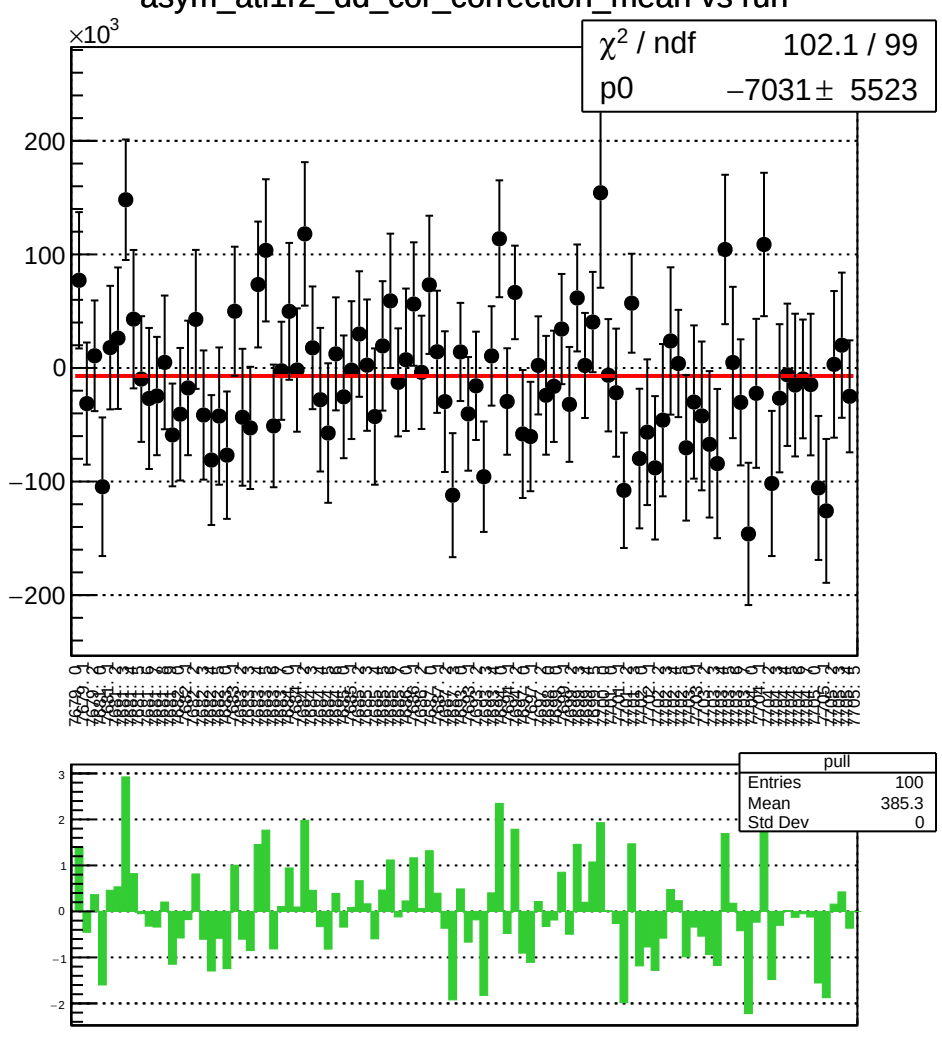

pull1D
Entries 100
Mean −0.01468
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

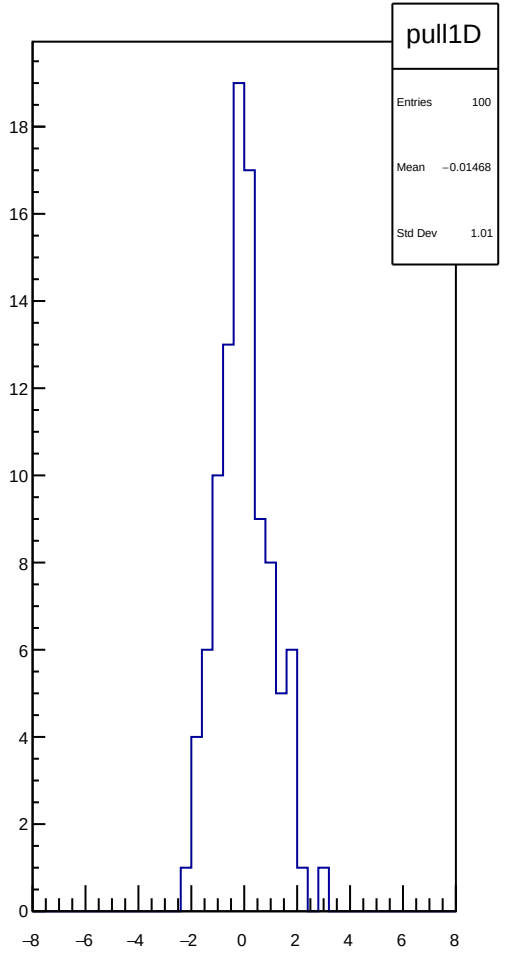

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 2.147e+04 / 99
p0 5389 ± 3.905
6500
6000
5500
5000
4500
4000

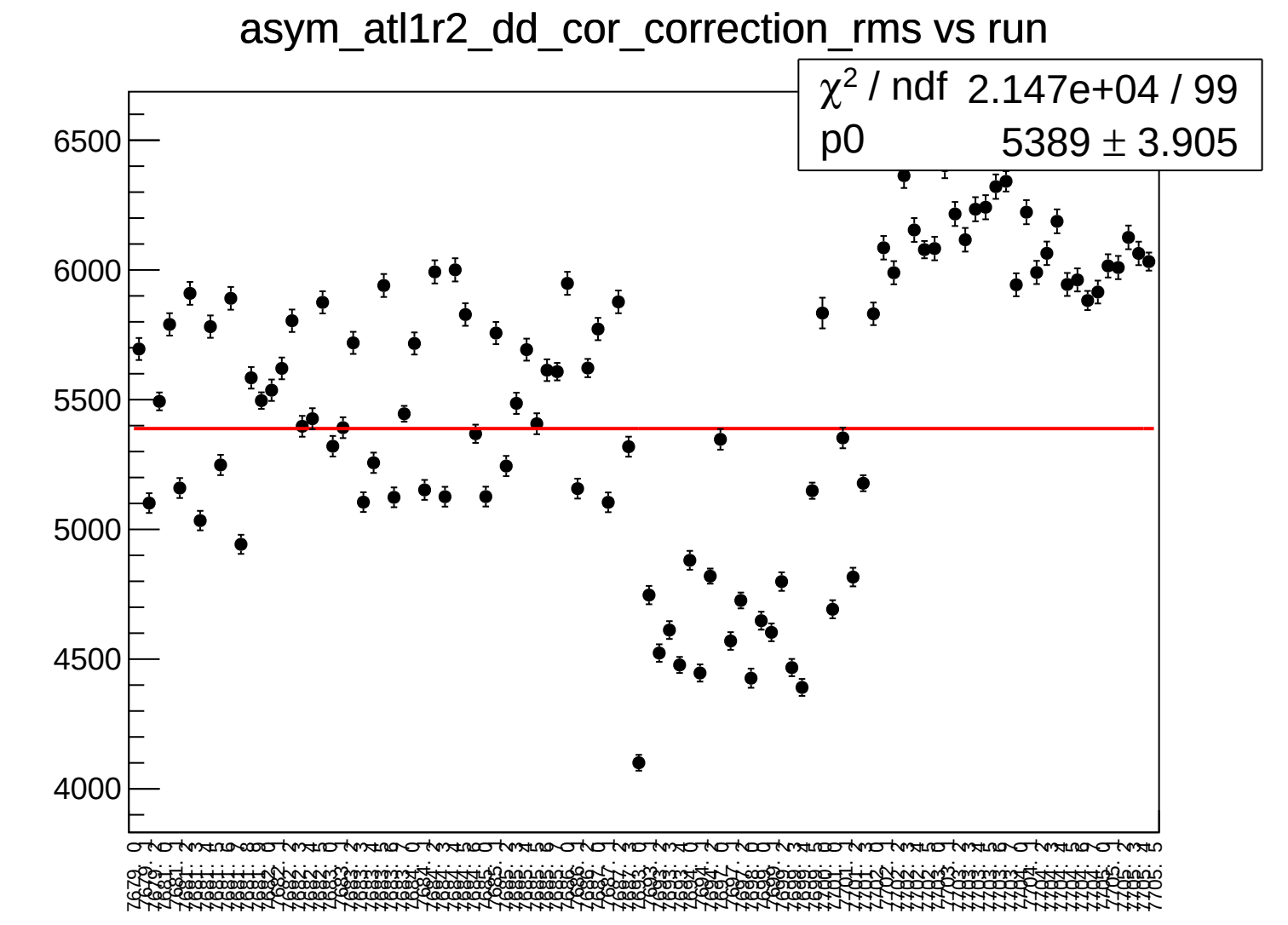

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 88.68 / 99
p0 −642.9 ± 1957
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean 0.7431
Std Dev 83.43
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

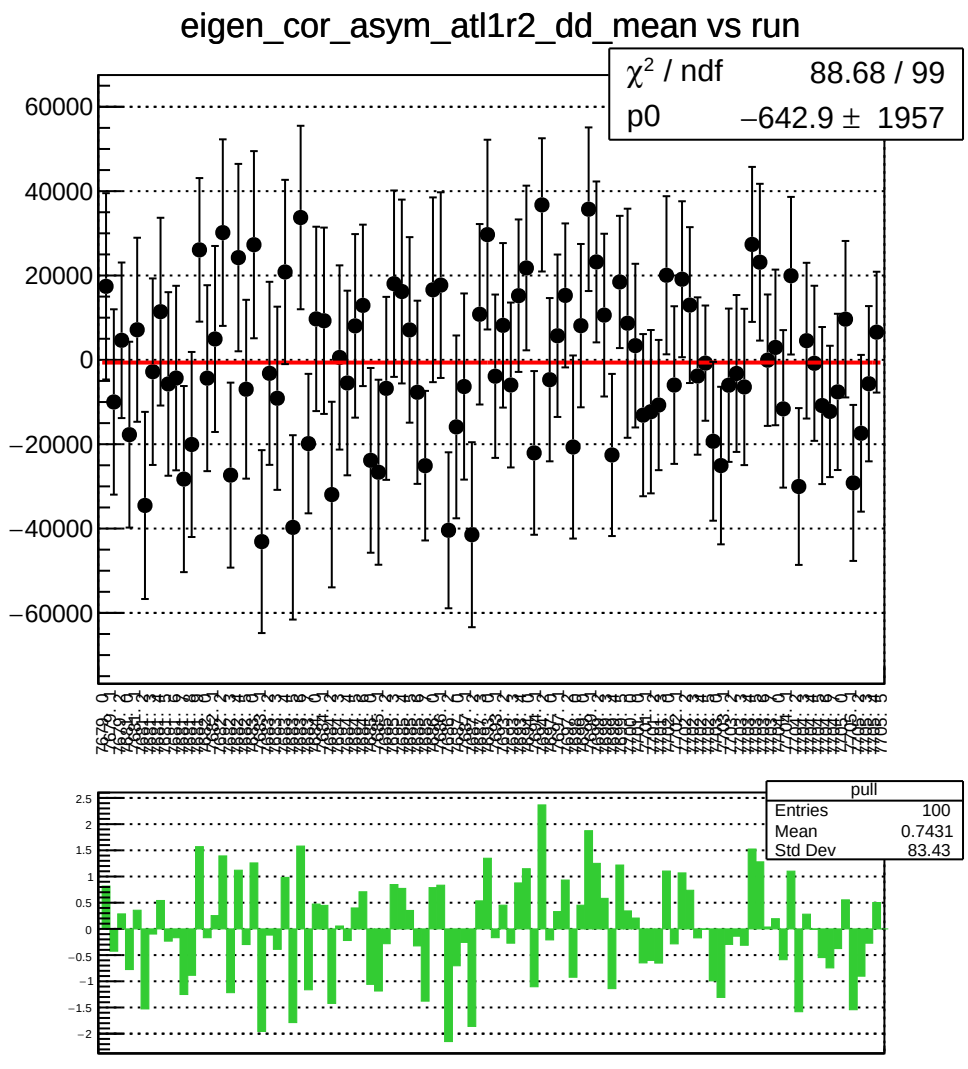

pull1D
Entries 100
Mean −0.009464
Std Dev 0.9417
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

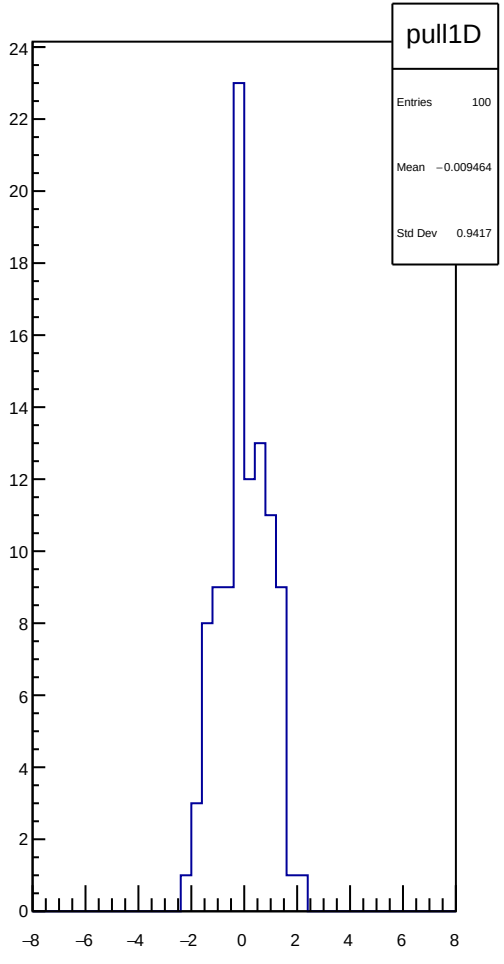

cor_asym_atl1r2_dd_rms vs run
χ² / ndf 1.116e+04 / 99
p0 1915 ± 1.384
2100
2000
1900
1800
1700

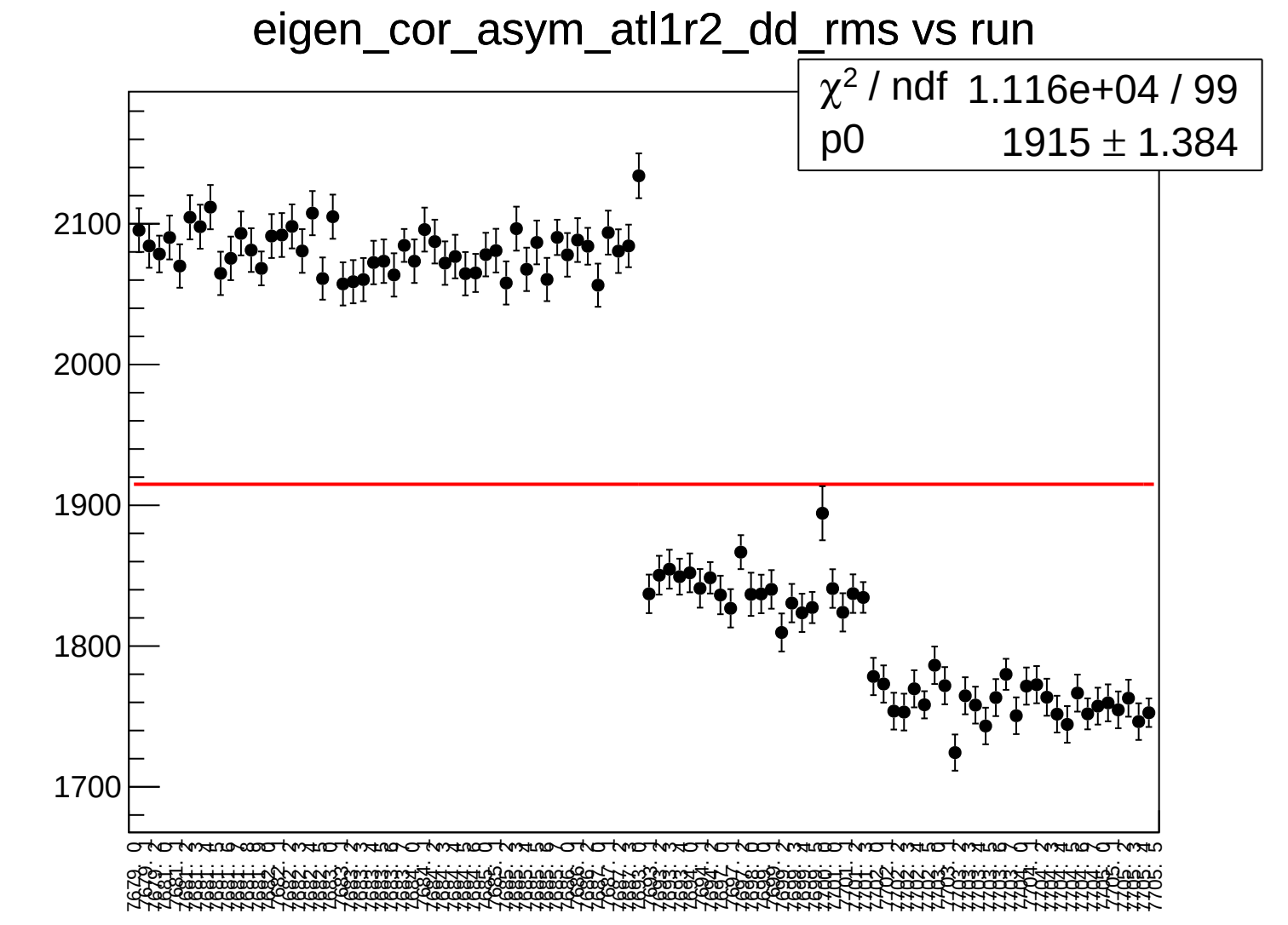

asym_atl1r2_dd_cor_correction_mean vs run
χ² / ndf 102.1 / 99
p0 −7031 ± 5523
×10³
200
100
0
−100
−200
pull
Entries 100
Mean 385.3
Std Dev 0
3
2
1
0
−1
−2

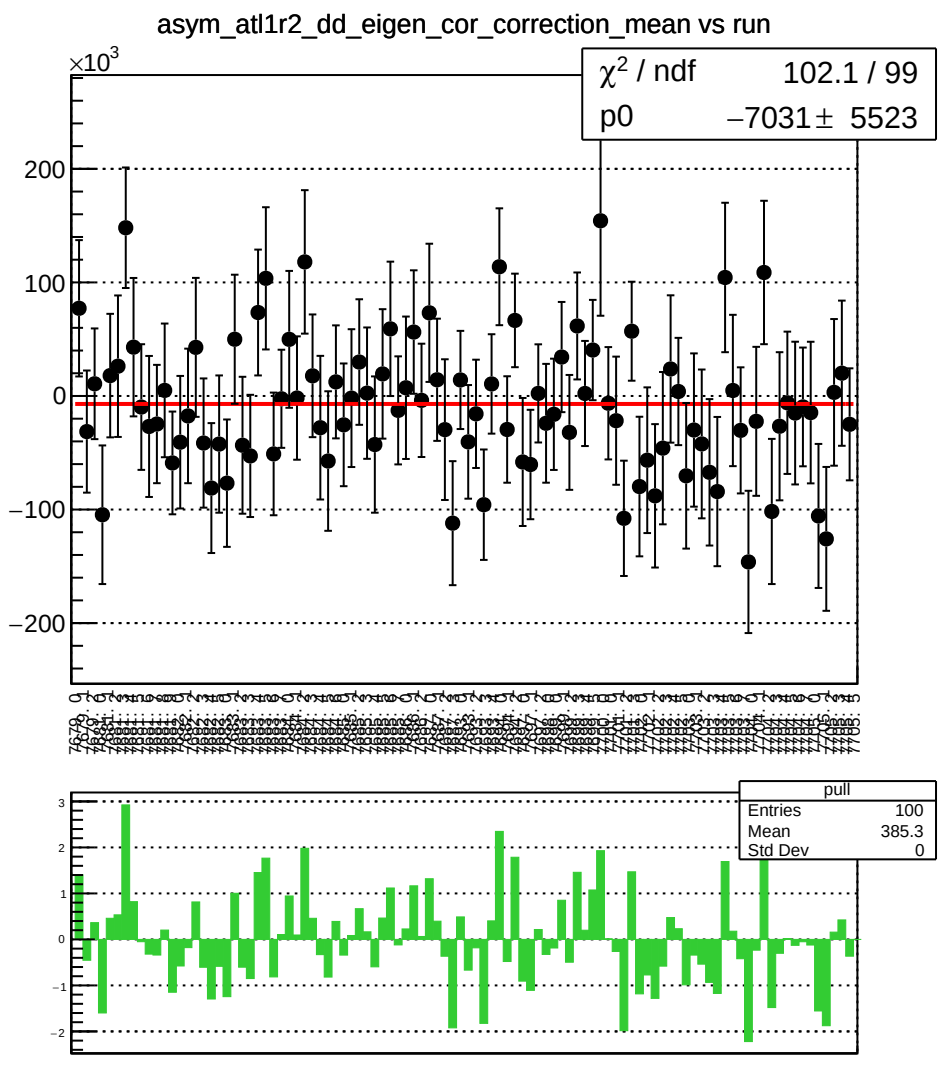

pull1D
Entries 100
Mean −0.01468
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

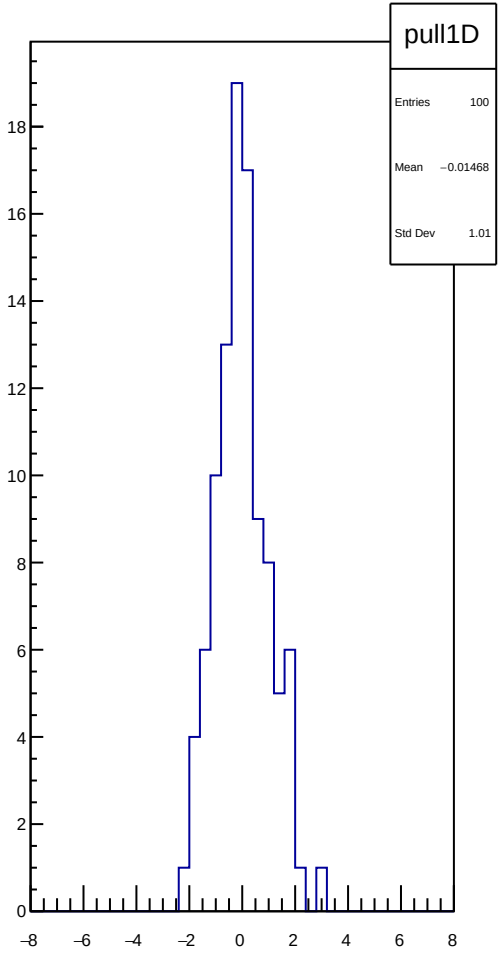

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 2.147e+04 / 99
p0 5389 ± 3.905
6500
6000
5500
5000
4500
4000

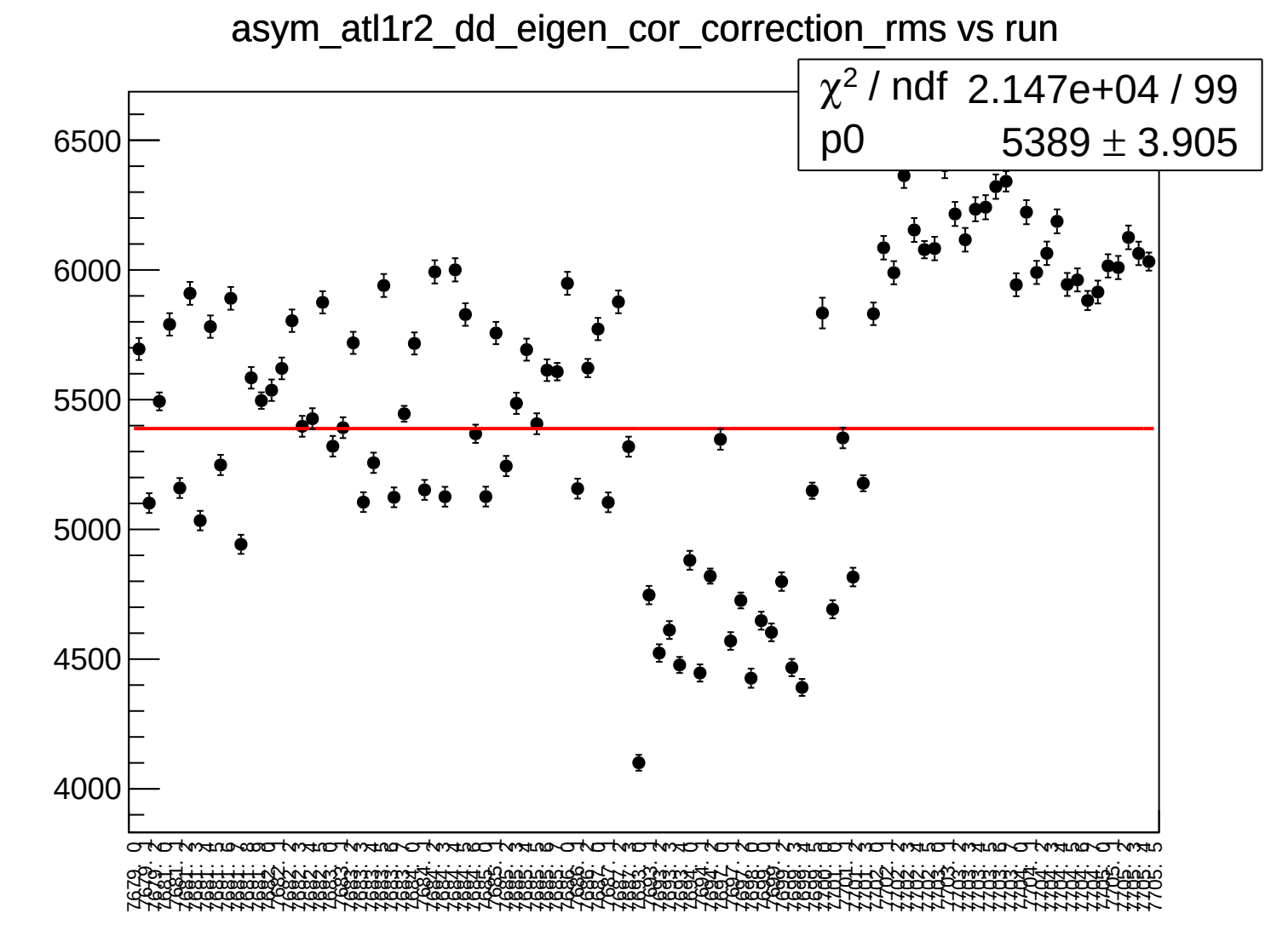

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 88.68 / 99
p0 −642.9 ± 1957
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean 0.7431
Std Dev 83.43
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

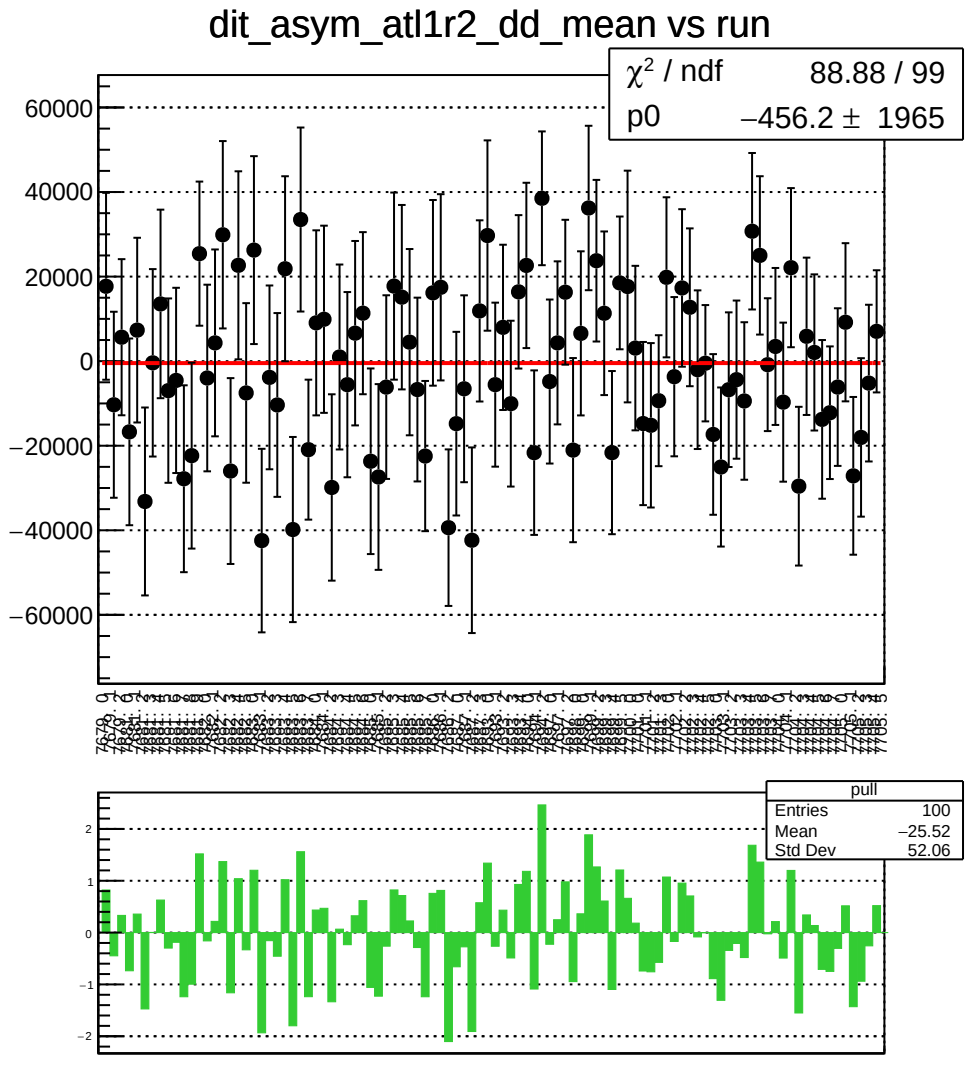

pull1D
Entries 100
Mean −0.009464
Std Dev 0.9417
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

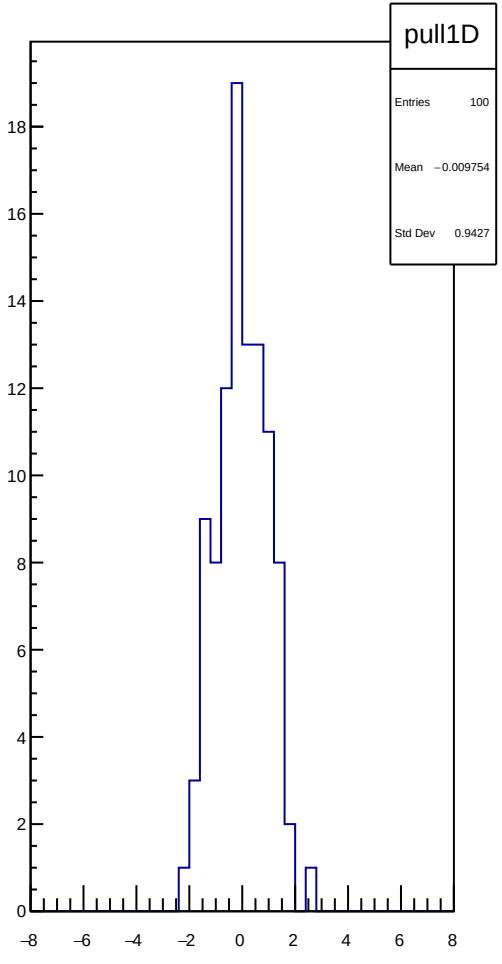

eigen_cor_asym_atl1r2_dd_rms vs run
χ^2 / ndf 1.116e+04 / 99
p0 1915 ± 1.384
2100
2000
1900
1800
1700

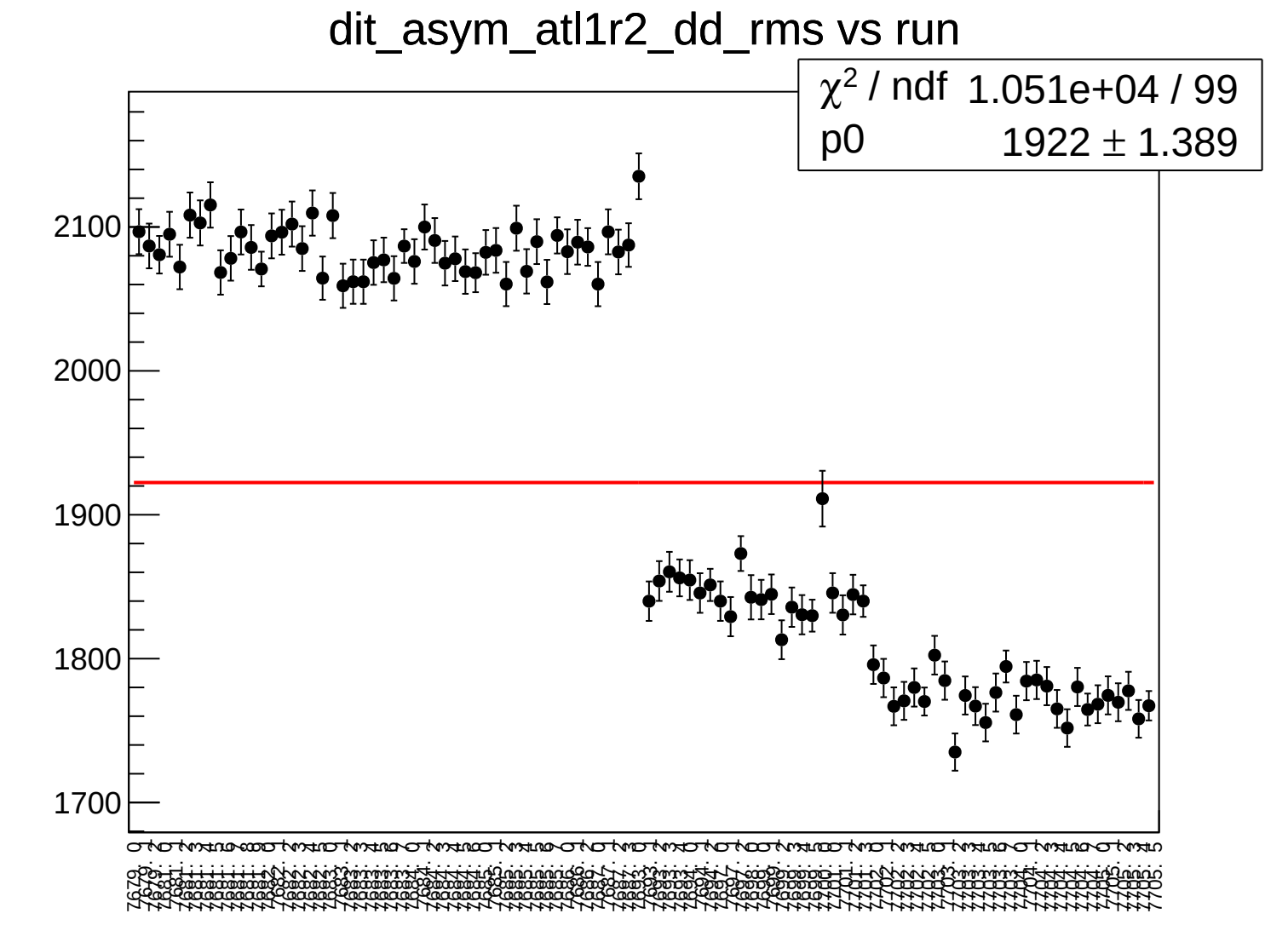

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 102.1 / 99
p0 −7031 ± 5523
200
100
0
−100
−200
pull
Entries 100
Mean 385.3
Std Dev 0
3
2
1
0
−1
−2

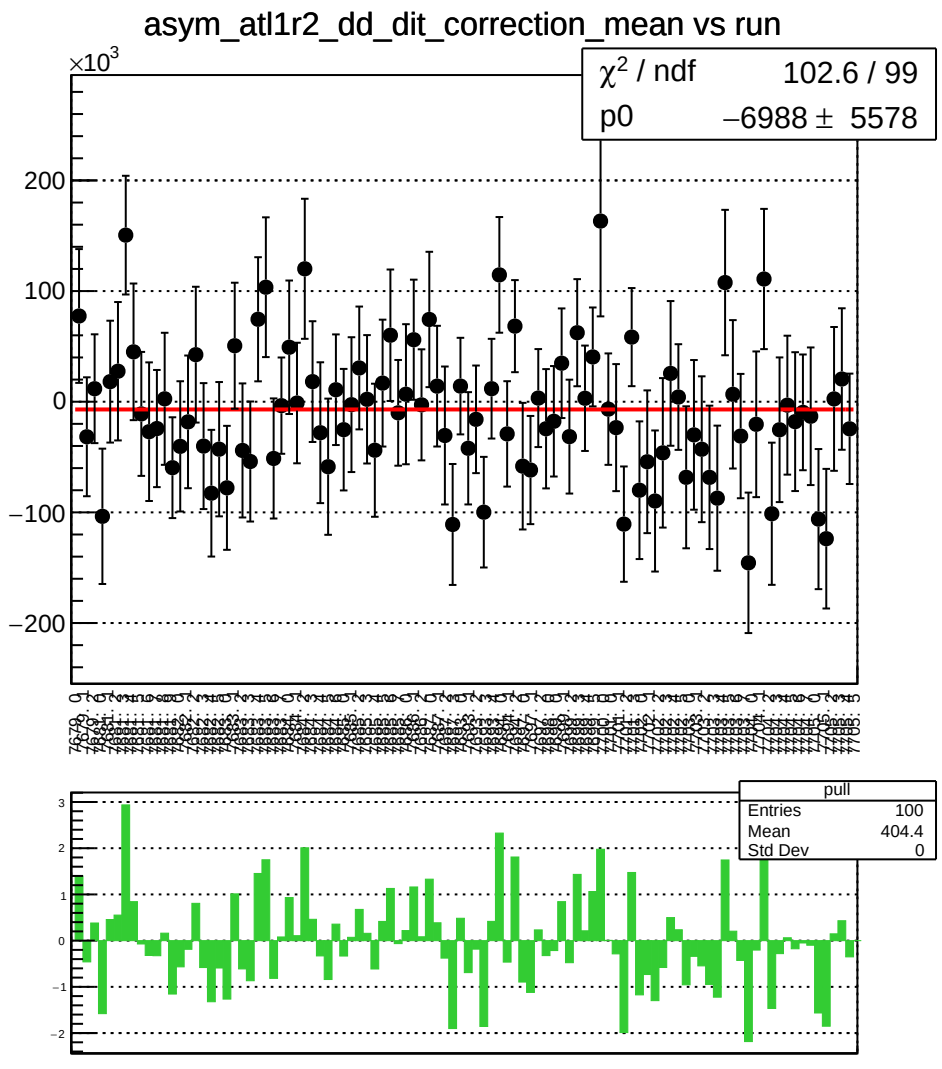

pull1D
Entries 100
Mean −0.01468
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

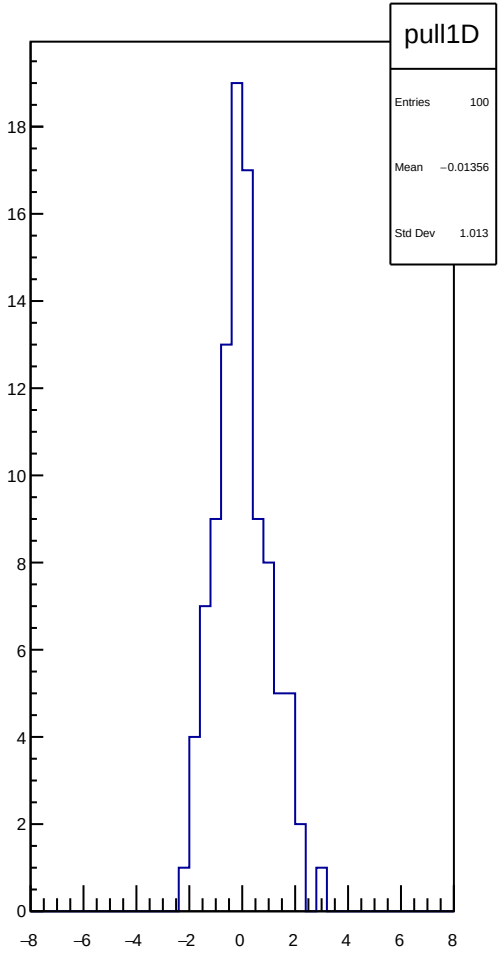

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.147e+04 / 99
p0 5389 ± 3.905
6500
6000
5500
5000
4500
4000

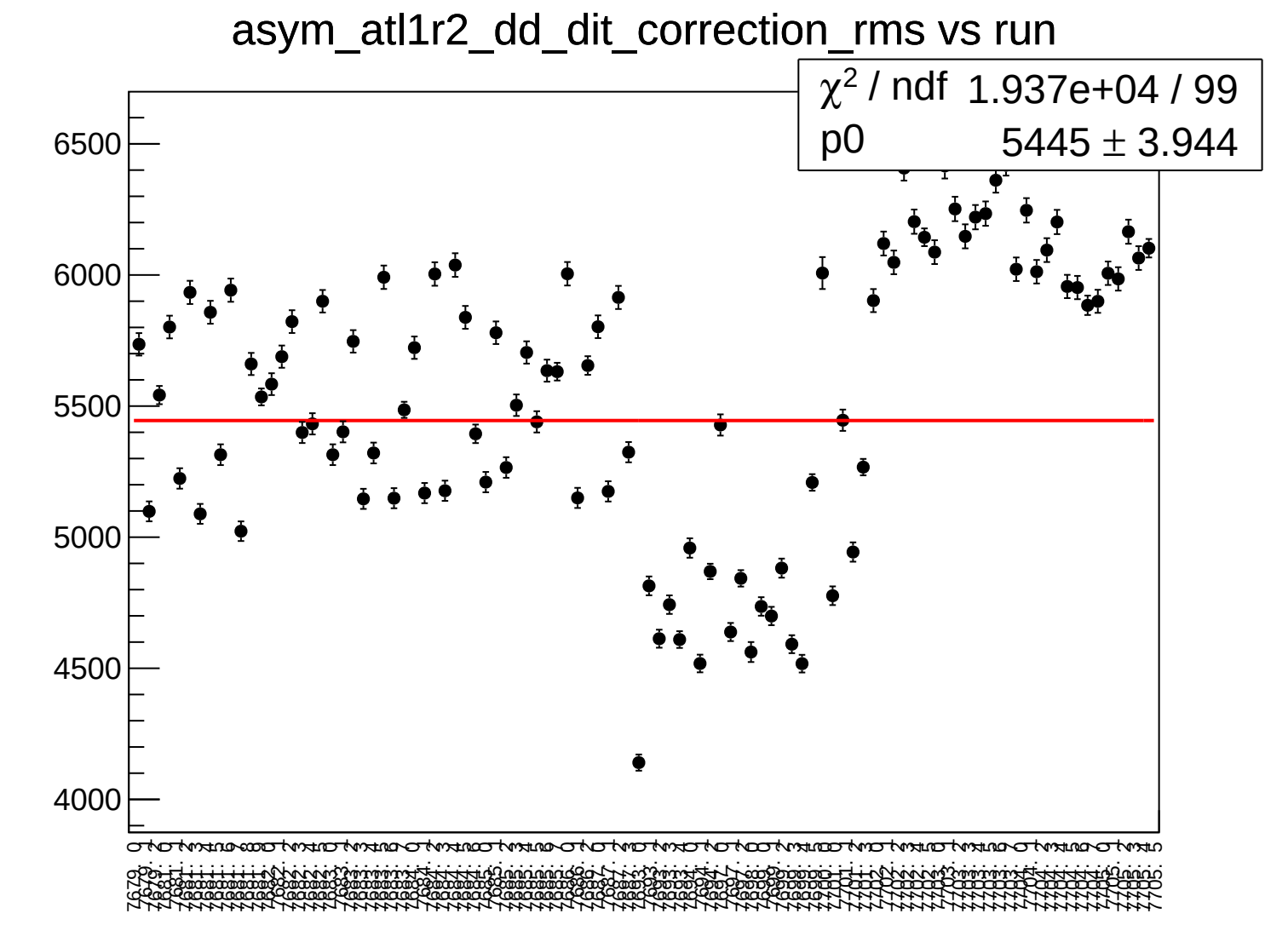

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 88.88 / 99
p0 −456.2 ± 1965
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −25.52
Std Dev 52.06
2
1
0
−1
−2

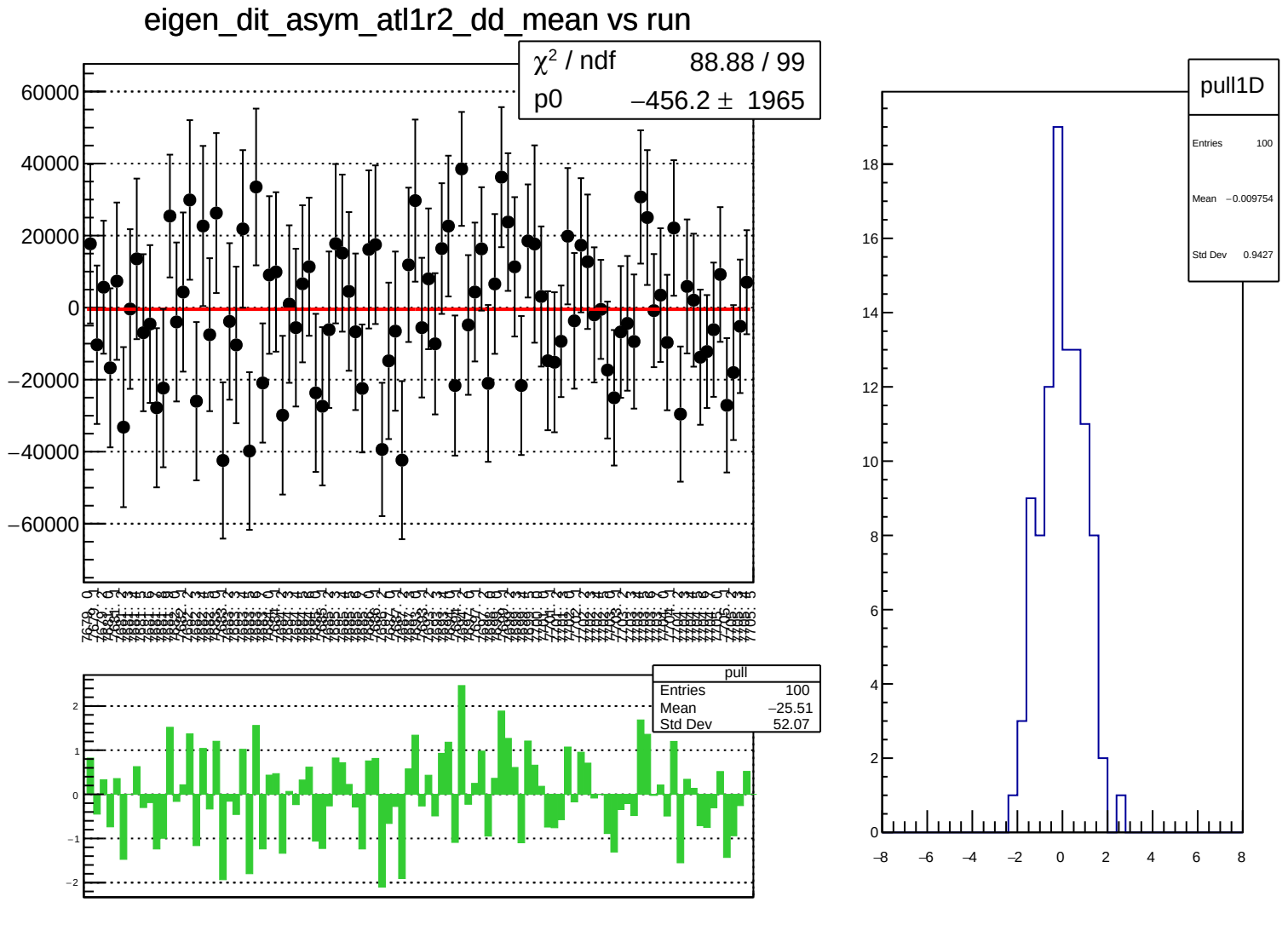

pull1D
Entries 100
Mean −0.009754
Std Dev 0.9427
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

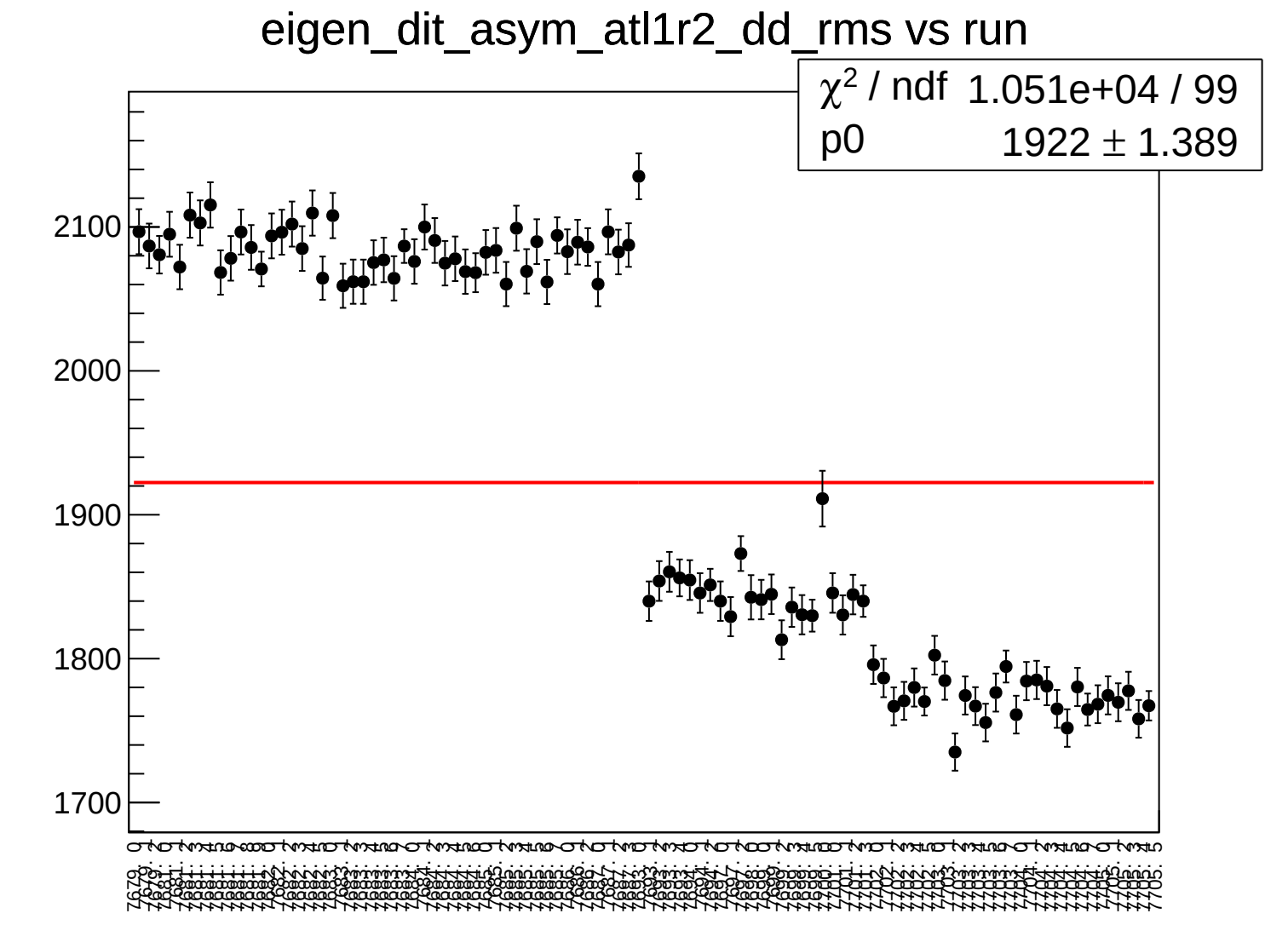

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 1.051e+04 / 99
p0 1922 ± 1.389
2100
2000
1900
1800
1700

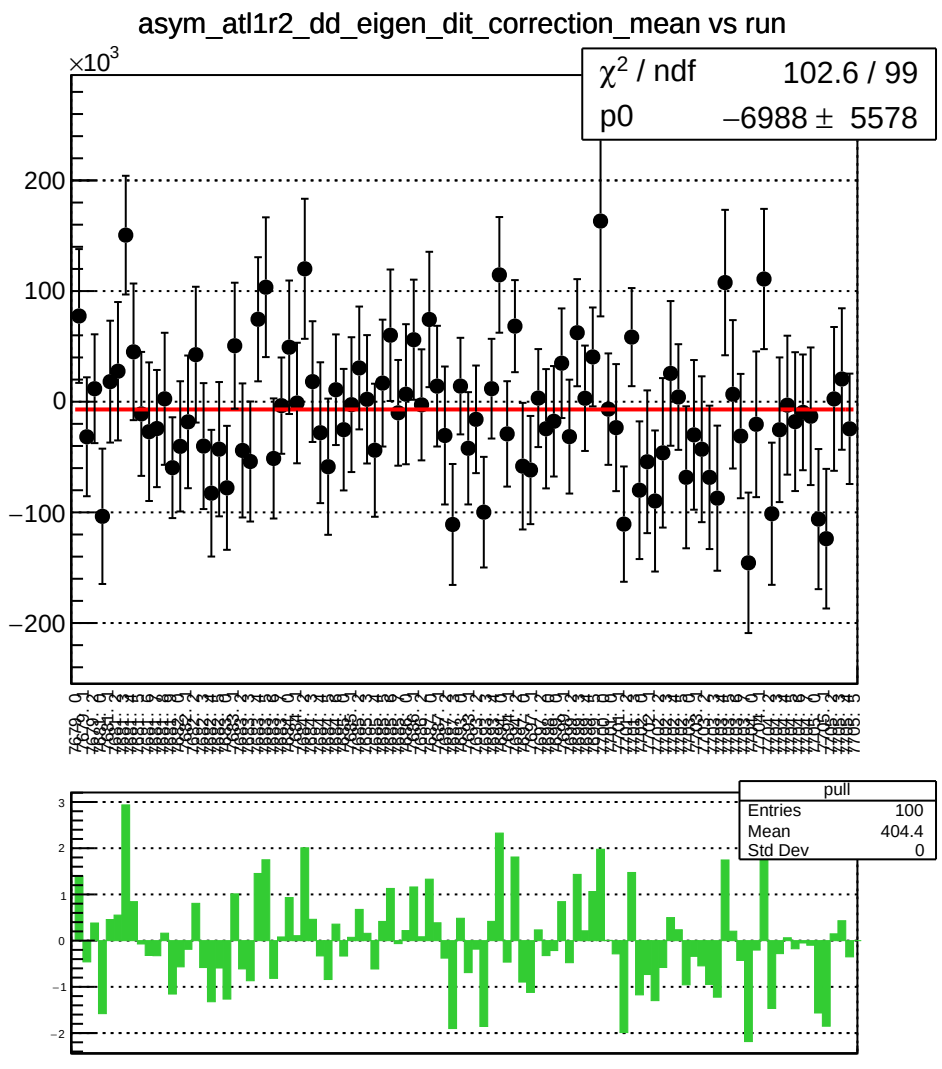

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 102.6 / 99
p0 −6988 ± 5578
200
100
0
−100
−200
pull
Entries 100
Mean 404.4
Std Dev 0
3
2
1
0
−1
−2

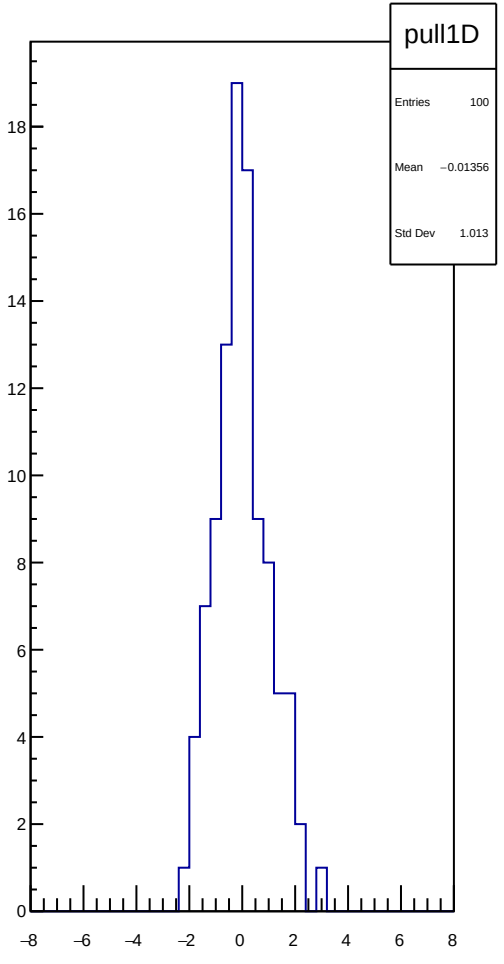

pull1D
Entries 100
Mean −0.01356
Std Dev 1.013
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

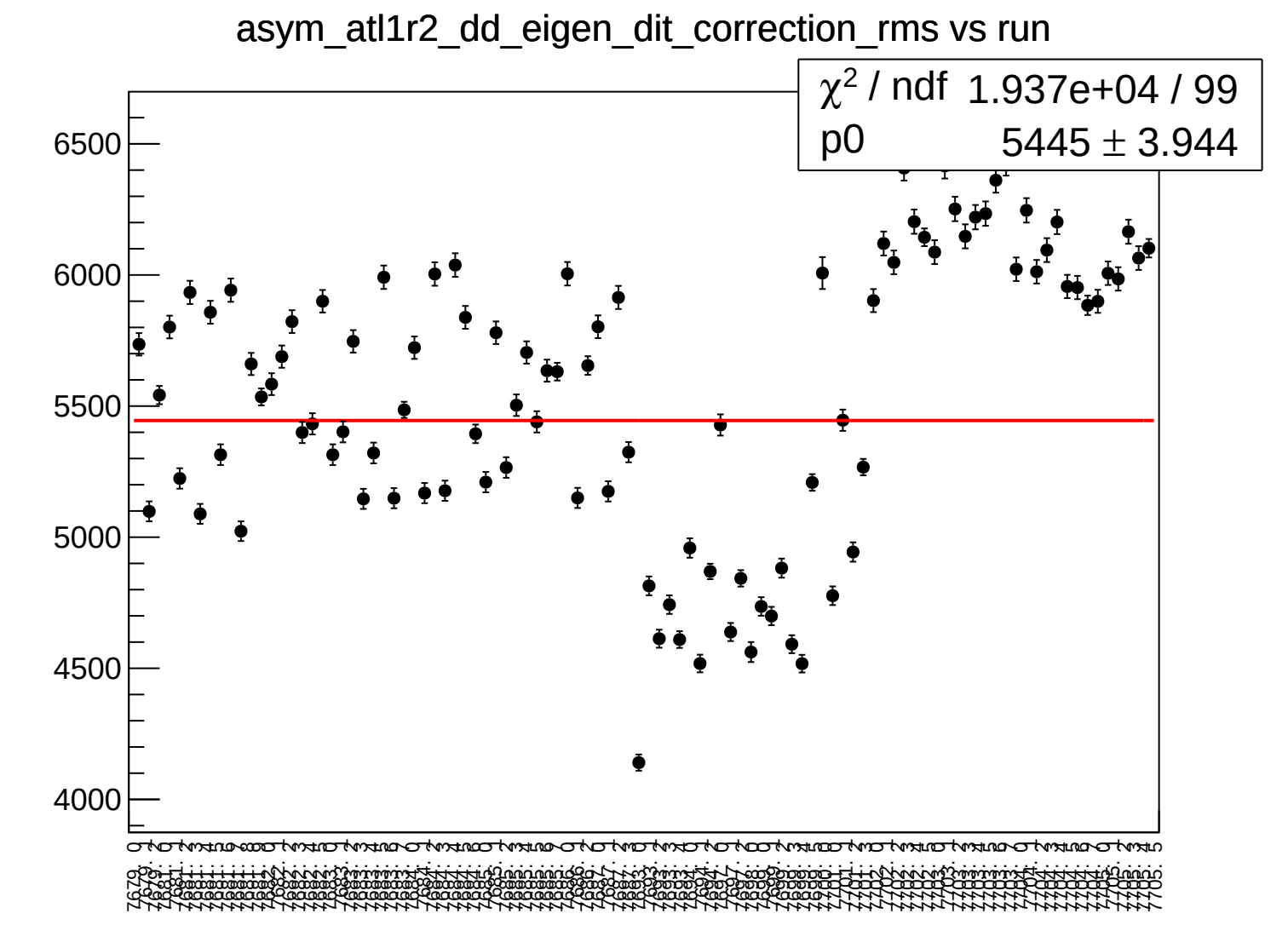

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 1.937e+04 / 99
p0 5445 ± 3.944
6500
6000
5500
5000
4500
4000

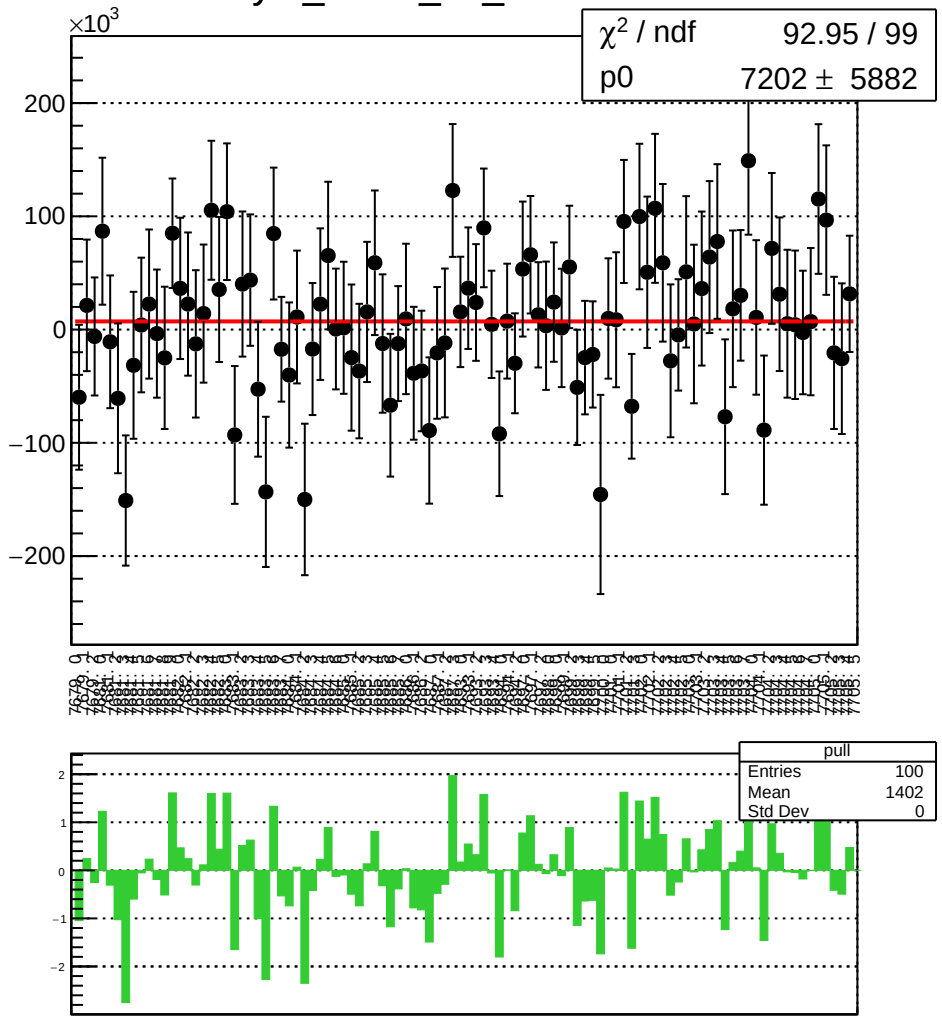

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 88.88 / 99
p0 −456.2 ± 1965
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −25.51
Std Dev 52.07
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.009754
Std Dev 0.9427
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

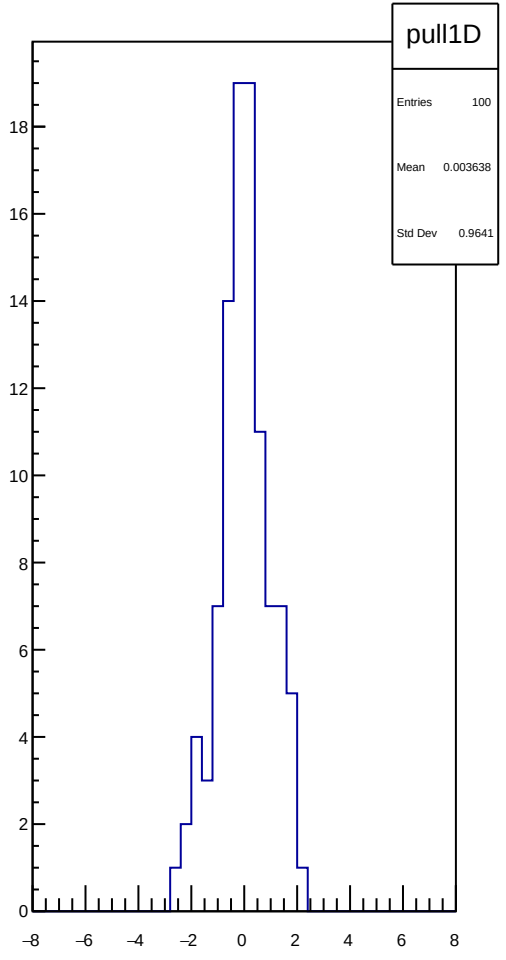

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 1.051e+04 / 99
p0 1922 ± 1.389
2100
2000
1900
1800
1700

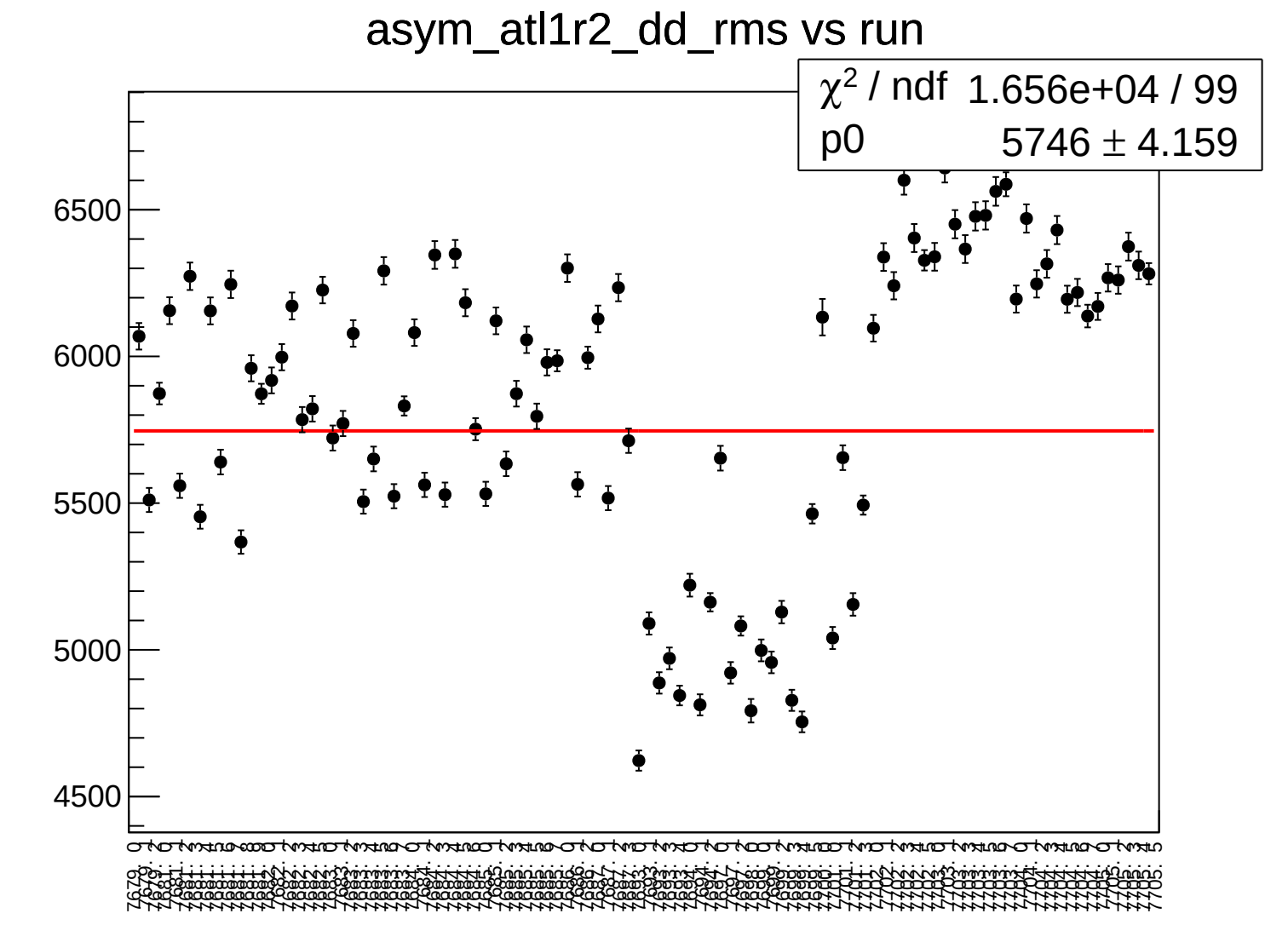

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 102.6 / 99
p0 −6988 ± 5578
200
100
0
−100
−200
pull
Entries 100
Mean 404.4
Std Dev 0
3
2
1
0
−1
−2

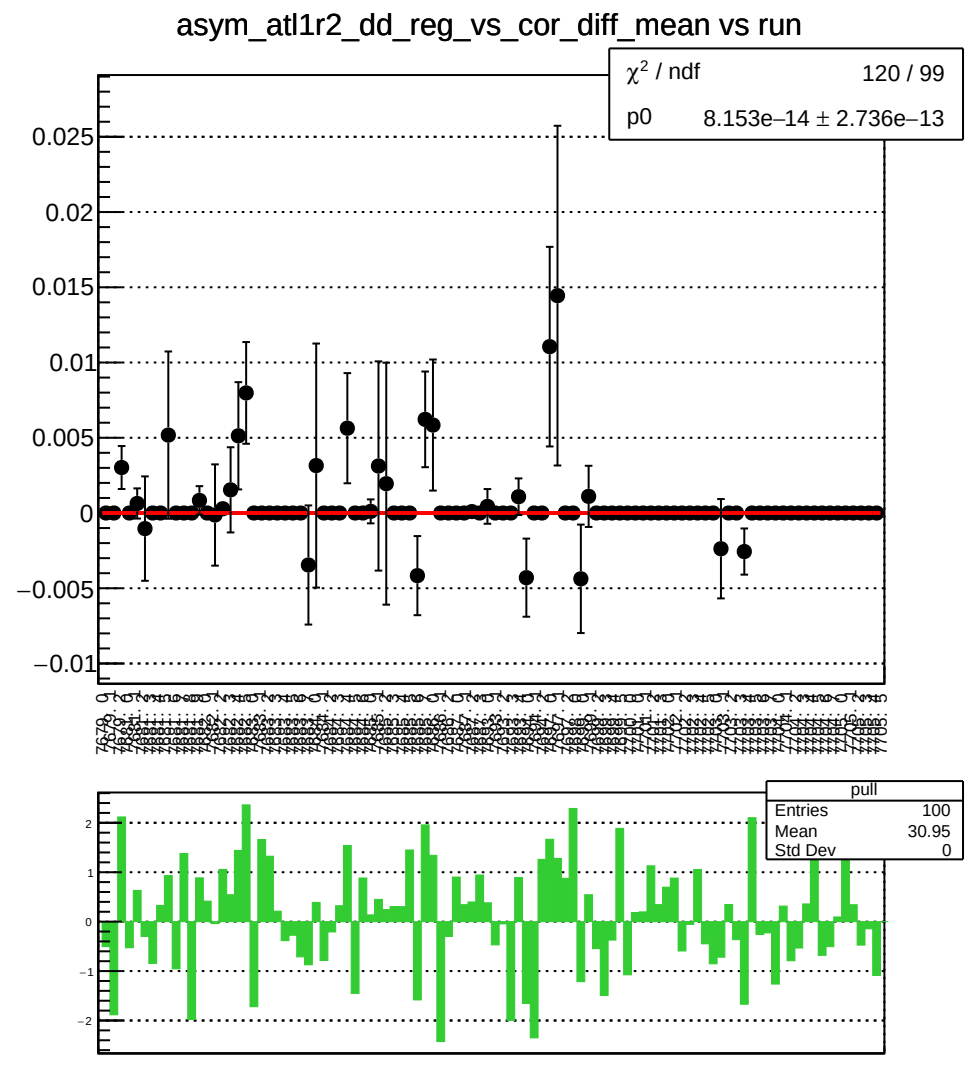

pull1D
Entries 100
Mean −0.01356
Std Dev 1.013
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

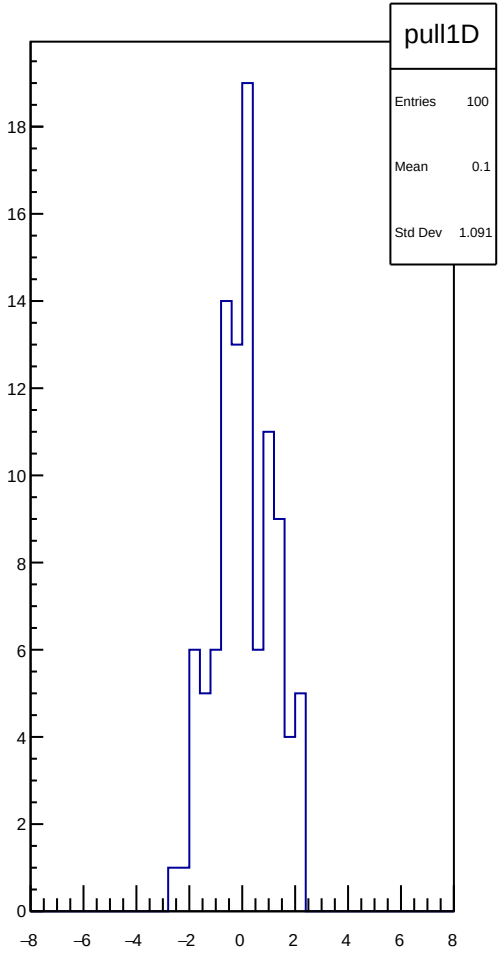

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.937e+04 / 99
p0 5445 ± 3.944
6500
6000
5500
5000
4500
4000

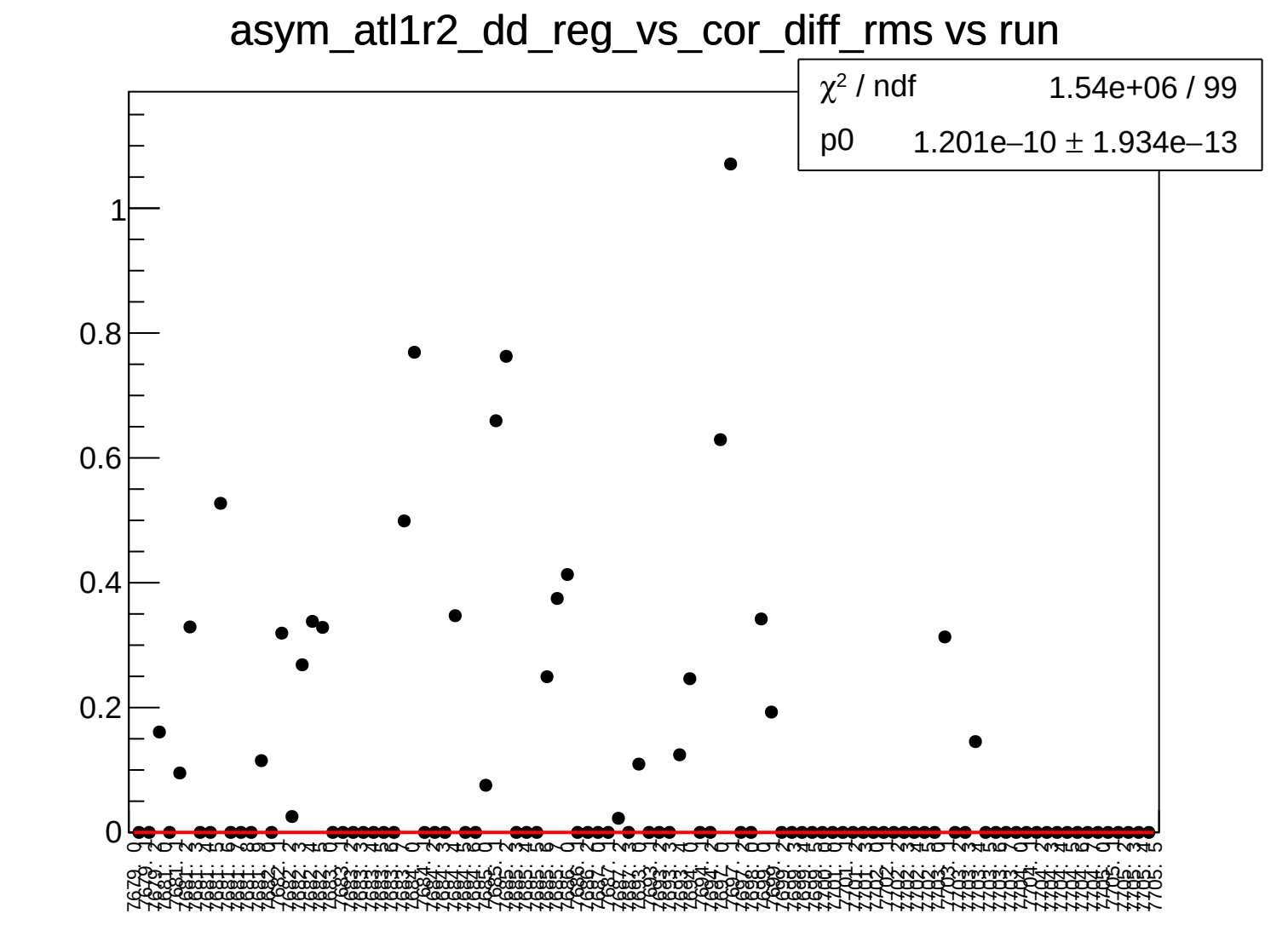

asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 92.95 / 99
p0 7202 ± 5882
200
100
0
−100
−200
pull
Entries 100
Mean 1402
Std Dev 0
2
1
0
−1
−2

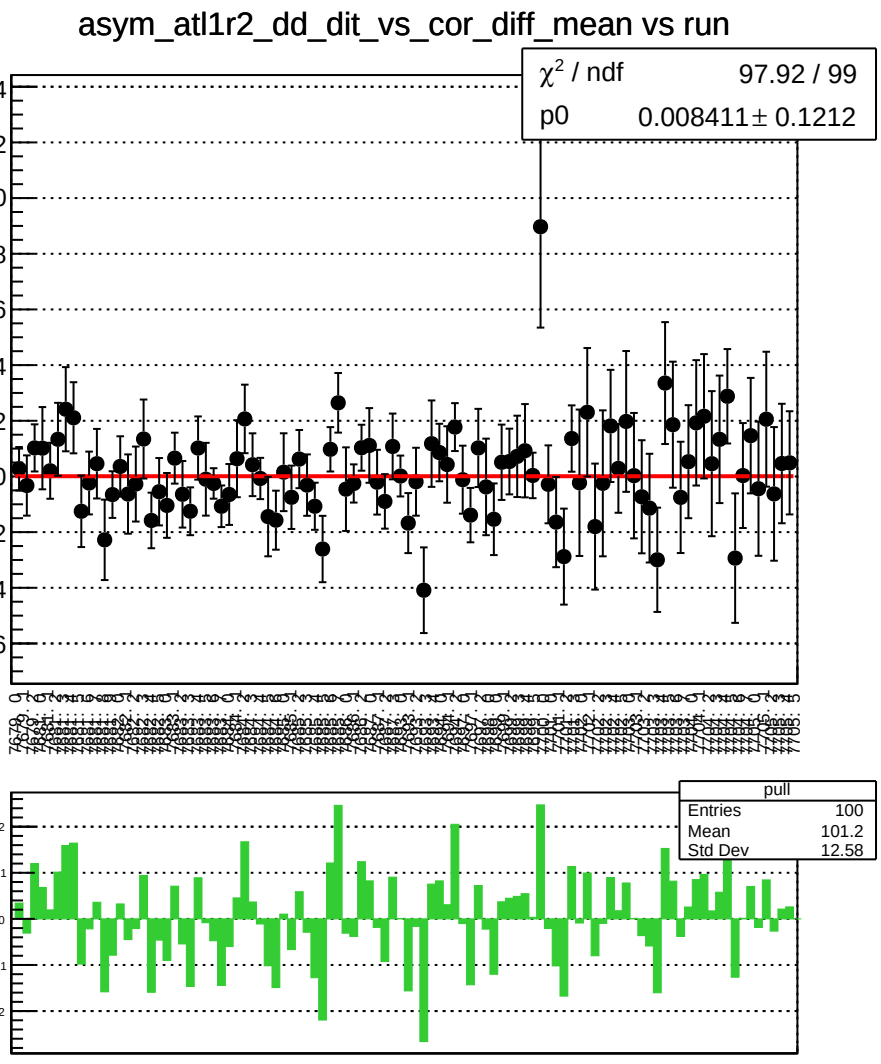

pull1D
Entries 100
Mean 0.003638
Std Dev 0.9641
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

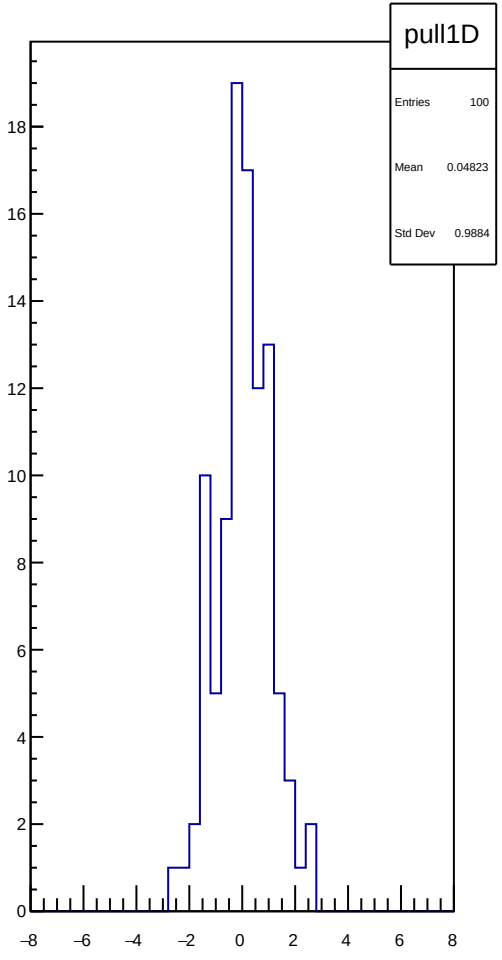

asym_atl1r2_dd_rms vs run
χ² / ndf 1.656e+04 / 99
p0 5746 ± 4.159
6500
6000
5500
5000
4500

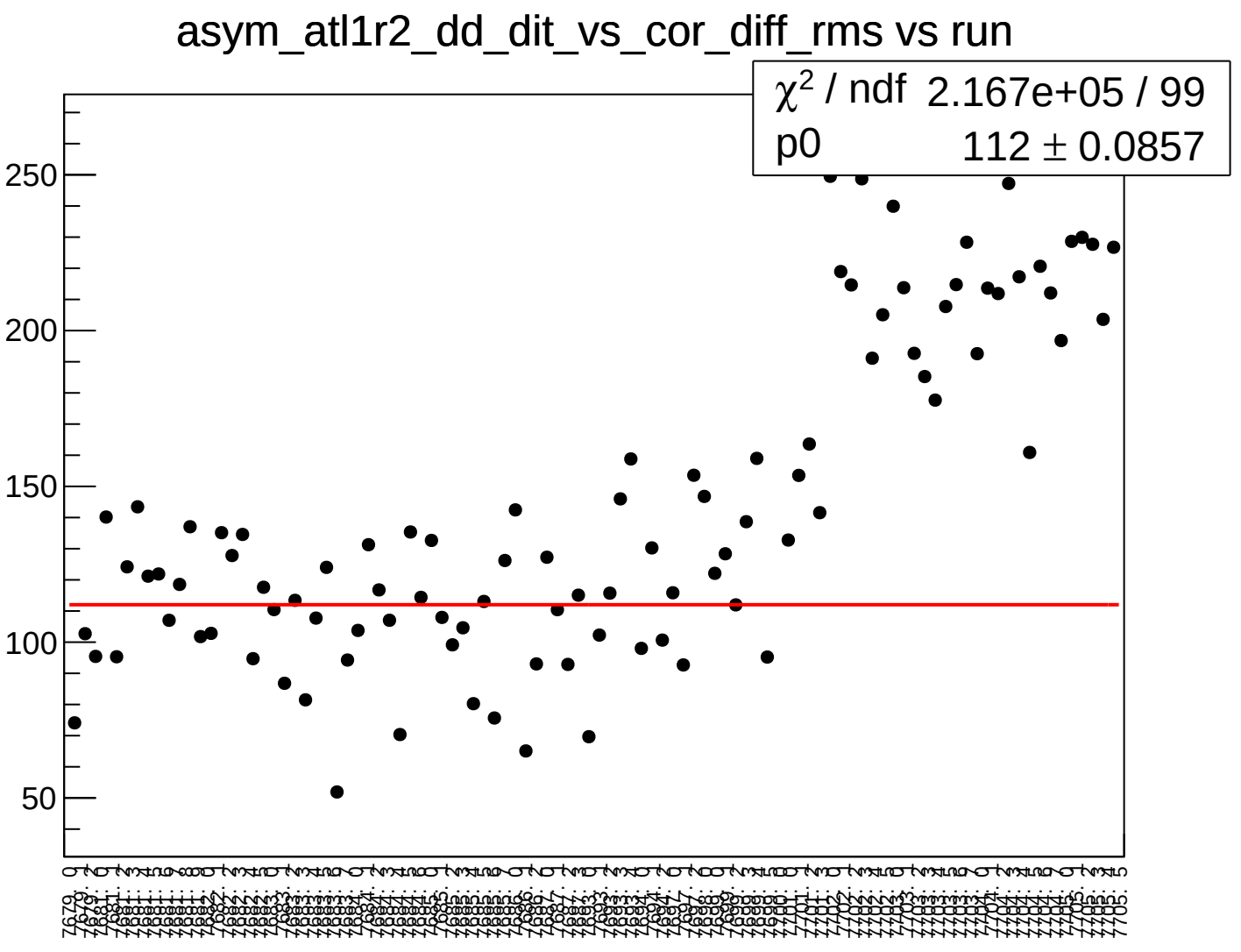

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 120 / 99
p0 8.153e−14 ± 2.736e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 100
Mean 30.95
Std Dev 0
2
1
0
−1
−2

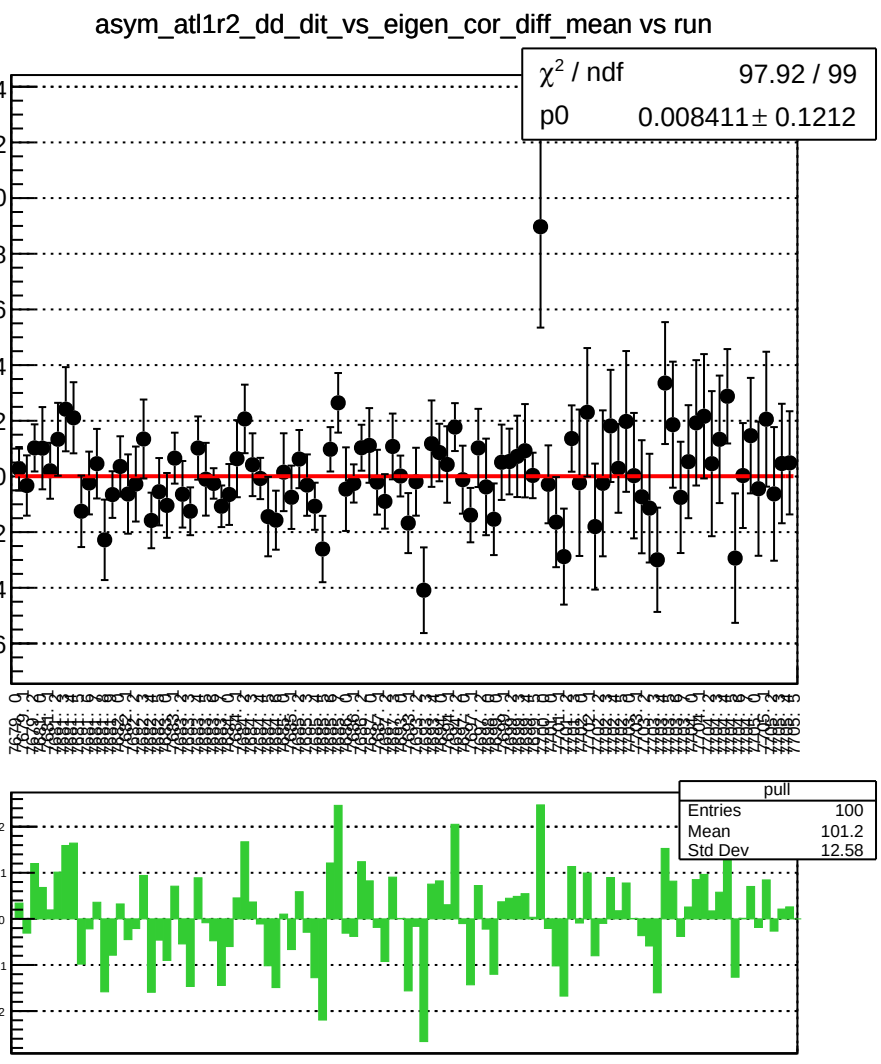

pull1D
Entries 100
Mean 0.1
Std Dev 1.091
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

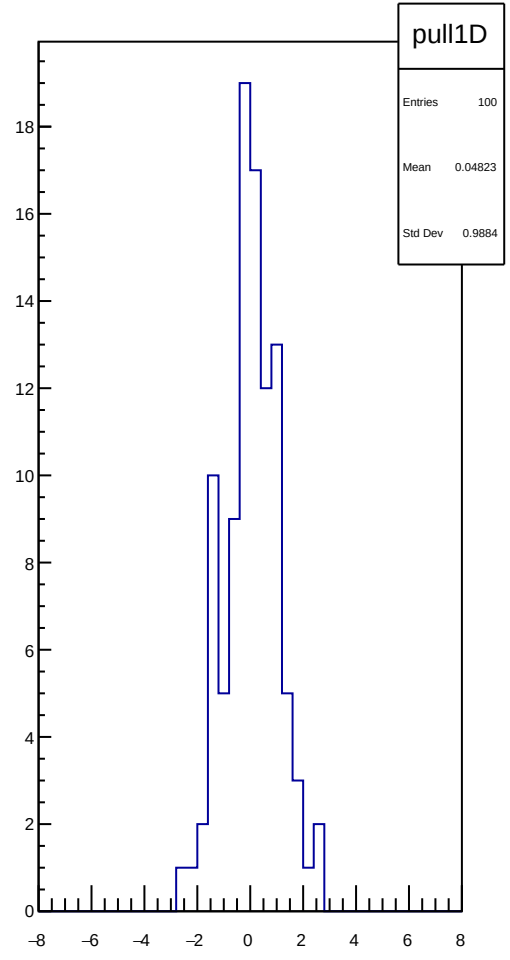

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.54e+06 / 99
p0 1.201e−10 ± 1.934e−13
1
0.8
0.6
0.4
0.2
0

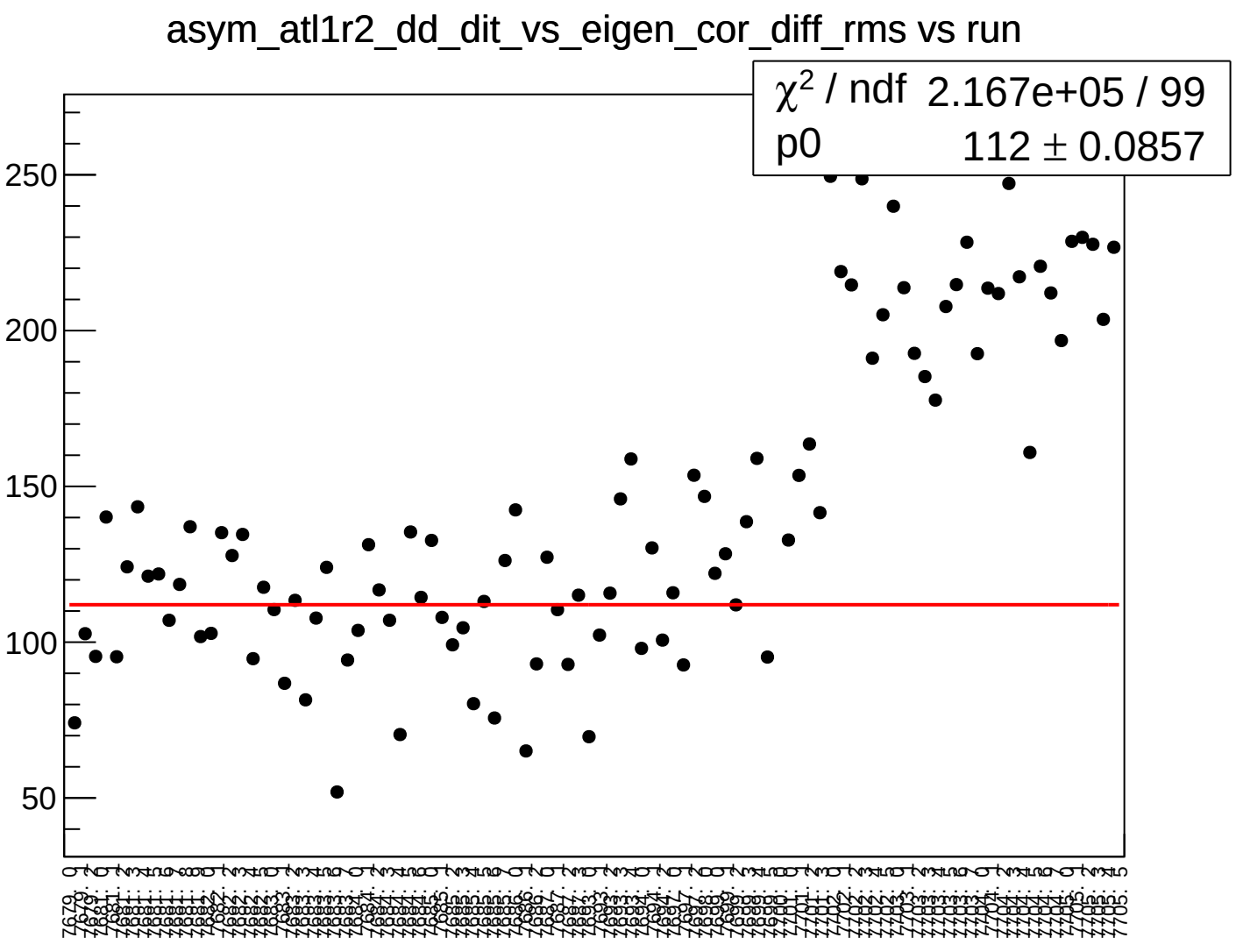

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 97.92 / 99
p0 0.008411 ± 0.1212
pull
Entries 100
Mean 101.2
Std Dev 12.58

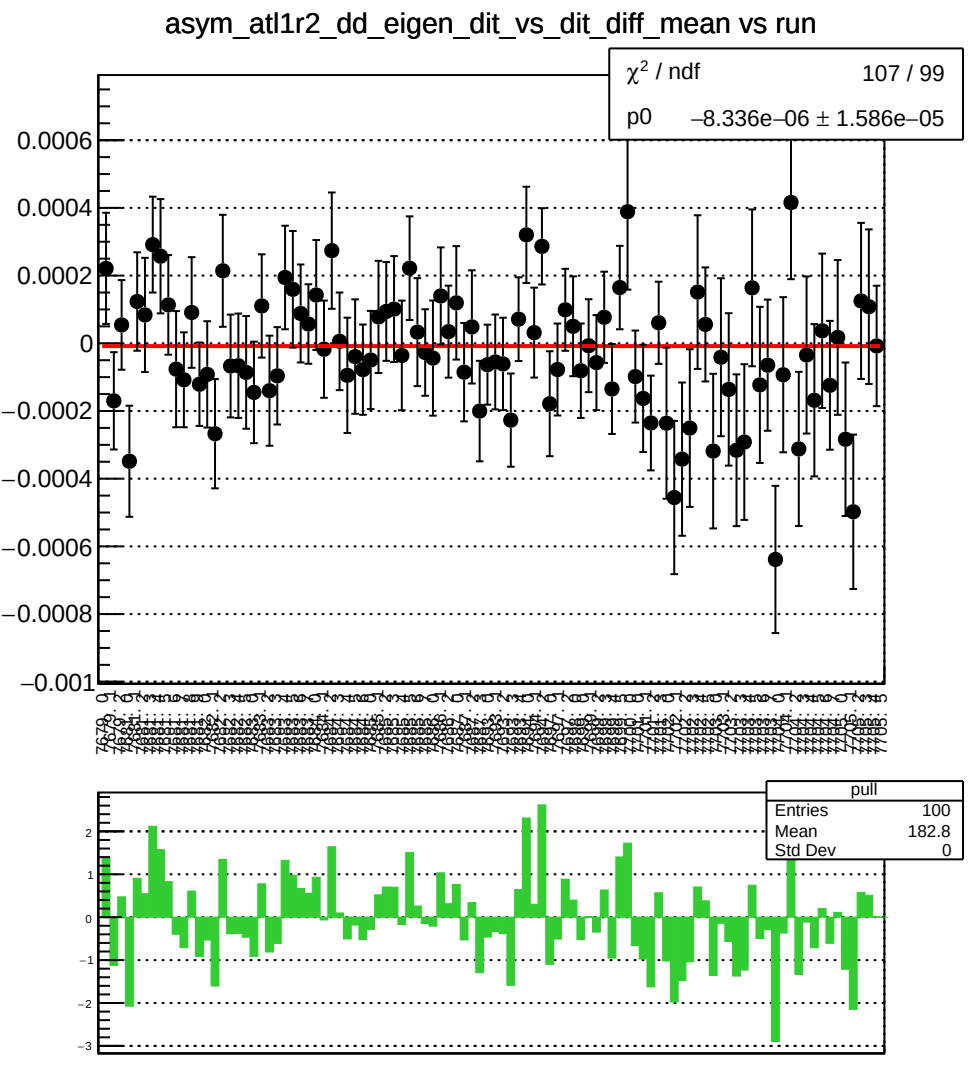

pull1D
Entries 100
Mean 0.04823
Std Dev 0.9884

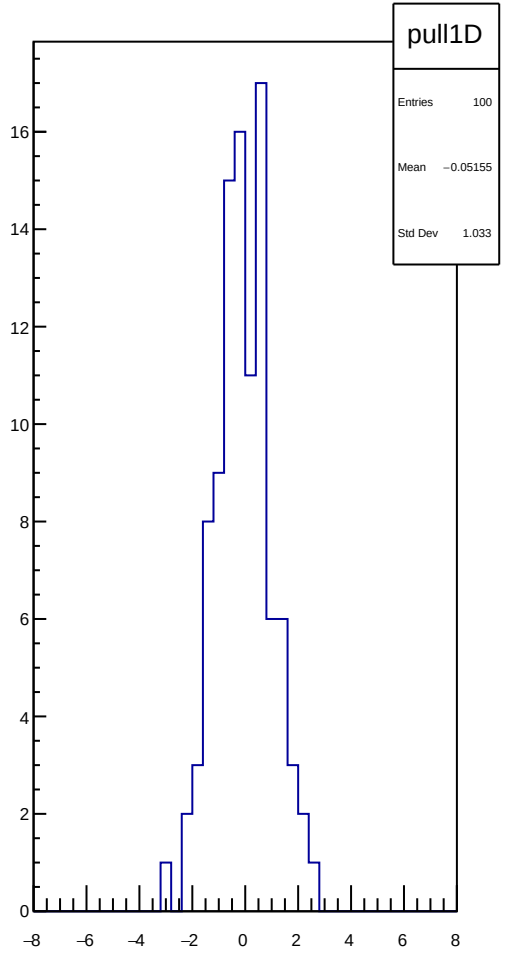

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.167e+05 / 99
p0 112 ± 0.0857
250
200
150
100
50

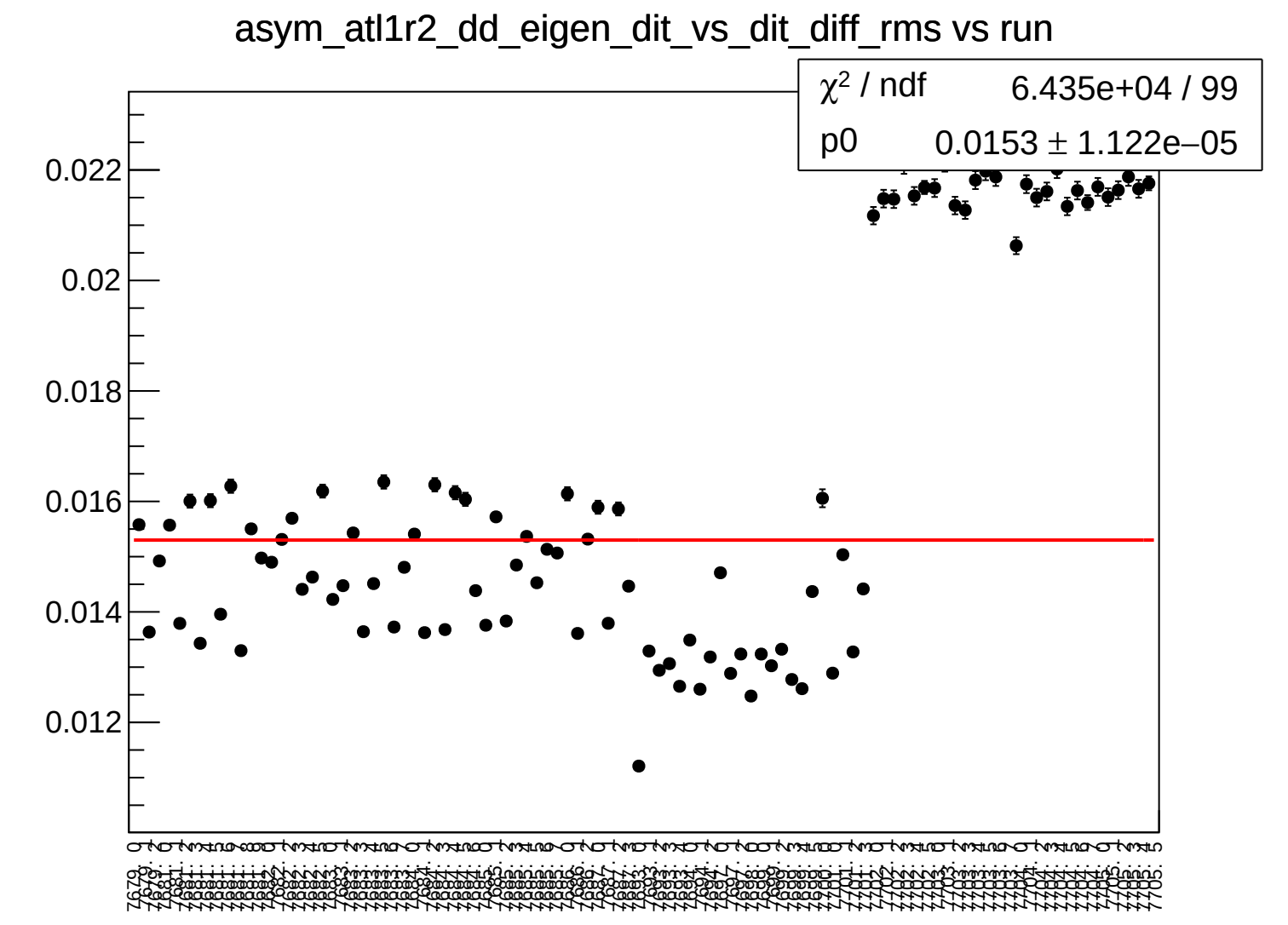

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.92 / 99
p0 0.008411 ± 0.1212
pull
Entries 100
Mean 101.2
Std Dev 12.58

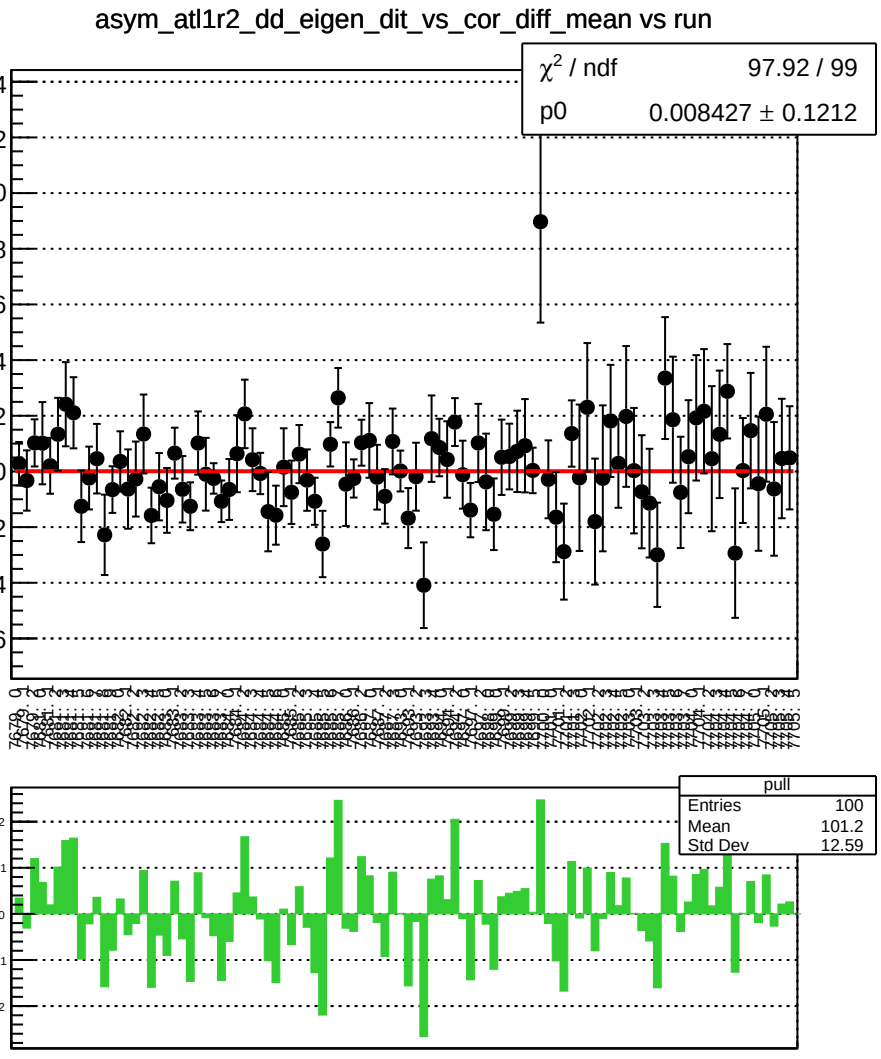

pull1D
Entries 100
Mean 0.04823
Std Dev 0.9884

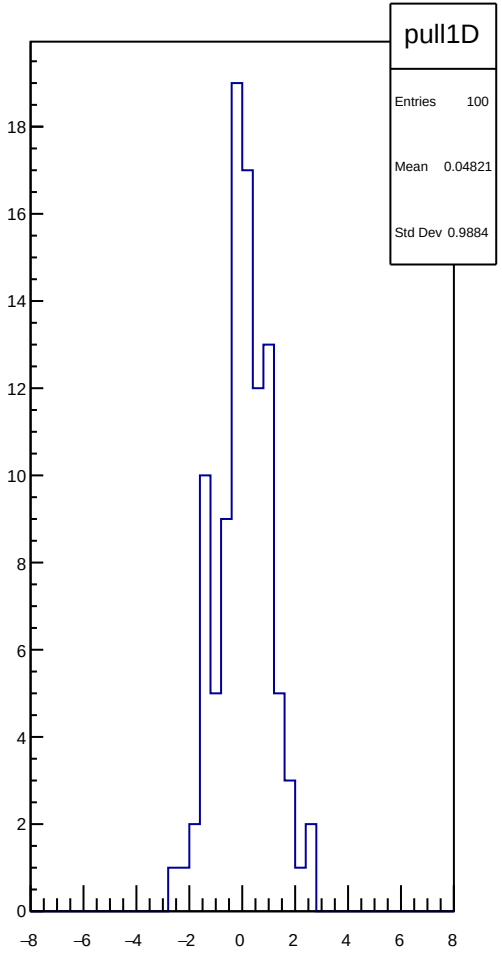

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.167e+05 / 99
p0 112 ± 0.0857
250
200
150
100
50

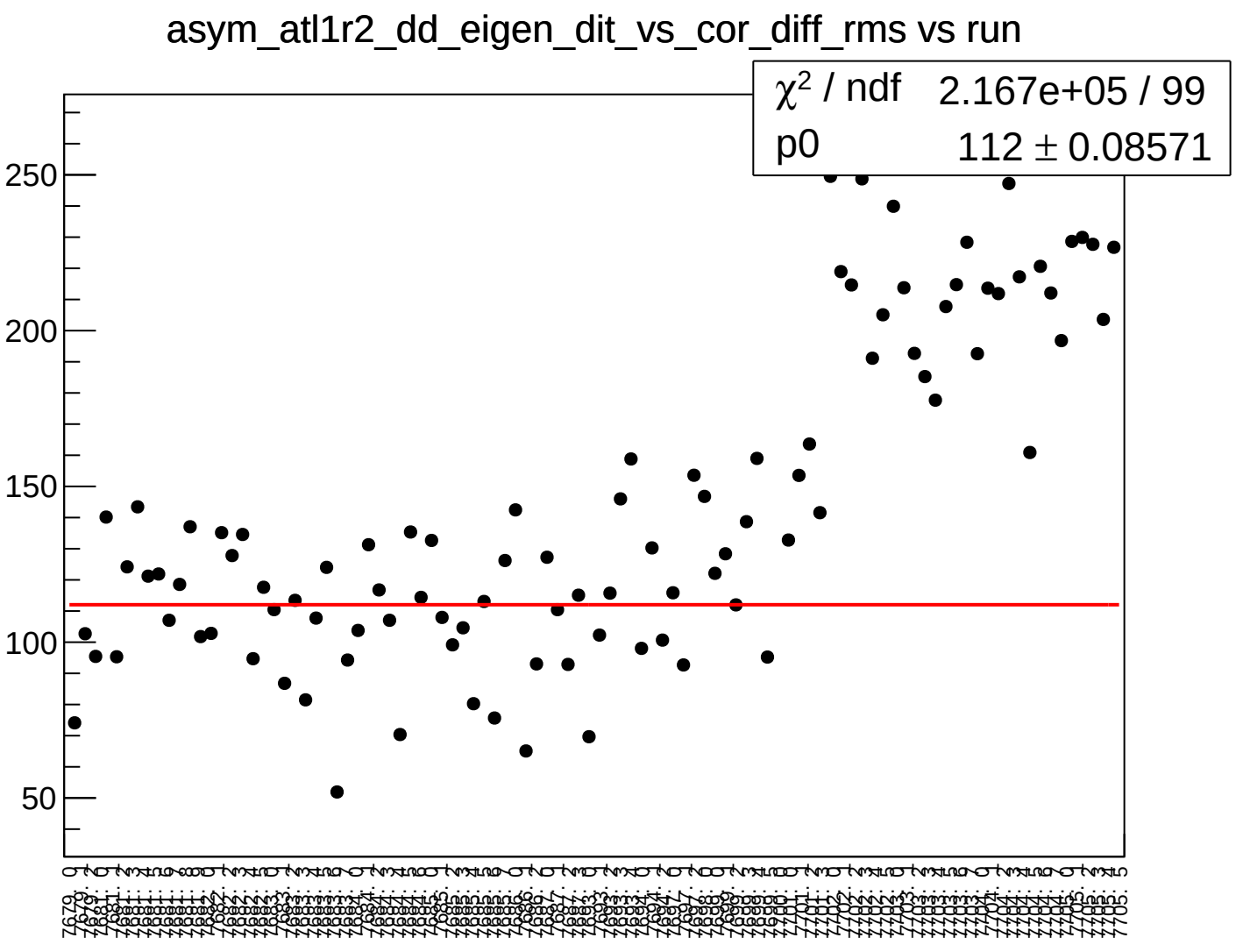

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 107 / 99
p0 −8.336e−06 ± 1.586e−05
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 100
Mean 182.8
Std Dev 0
2
1
0
−1
−2
−3

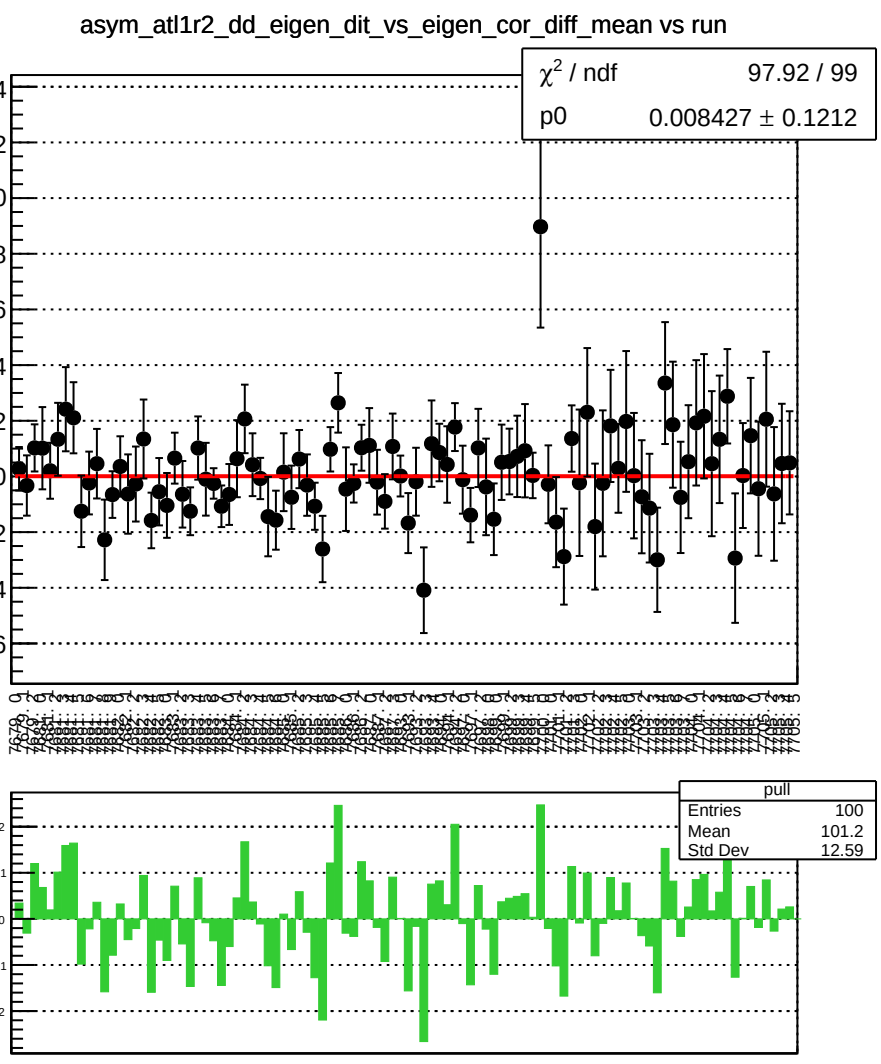

pull1D
Entries 100
Mean −0.05155
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

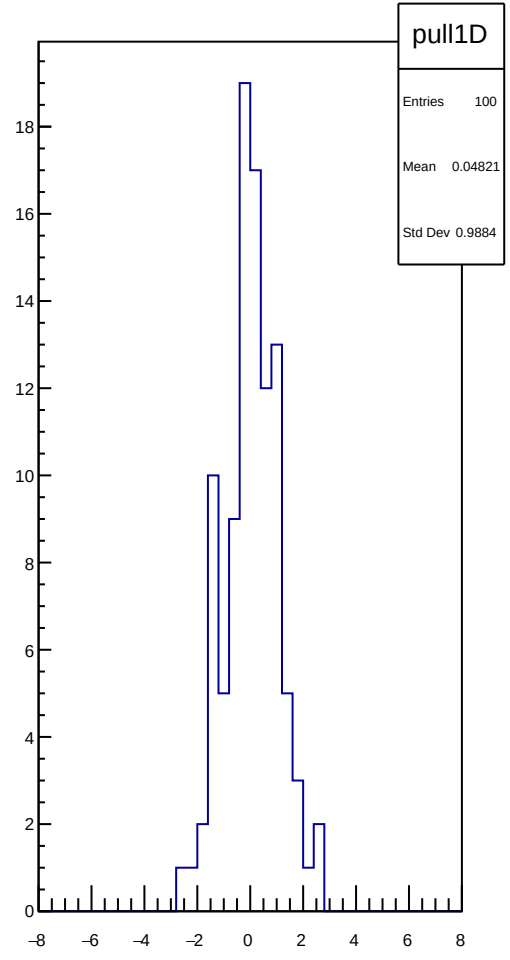

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.435e+04 / 99
p0 0.0153 ± 1.122e−05
0.022
0.02
0.018
0.016
0.014
0.012

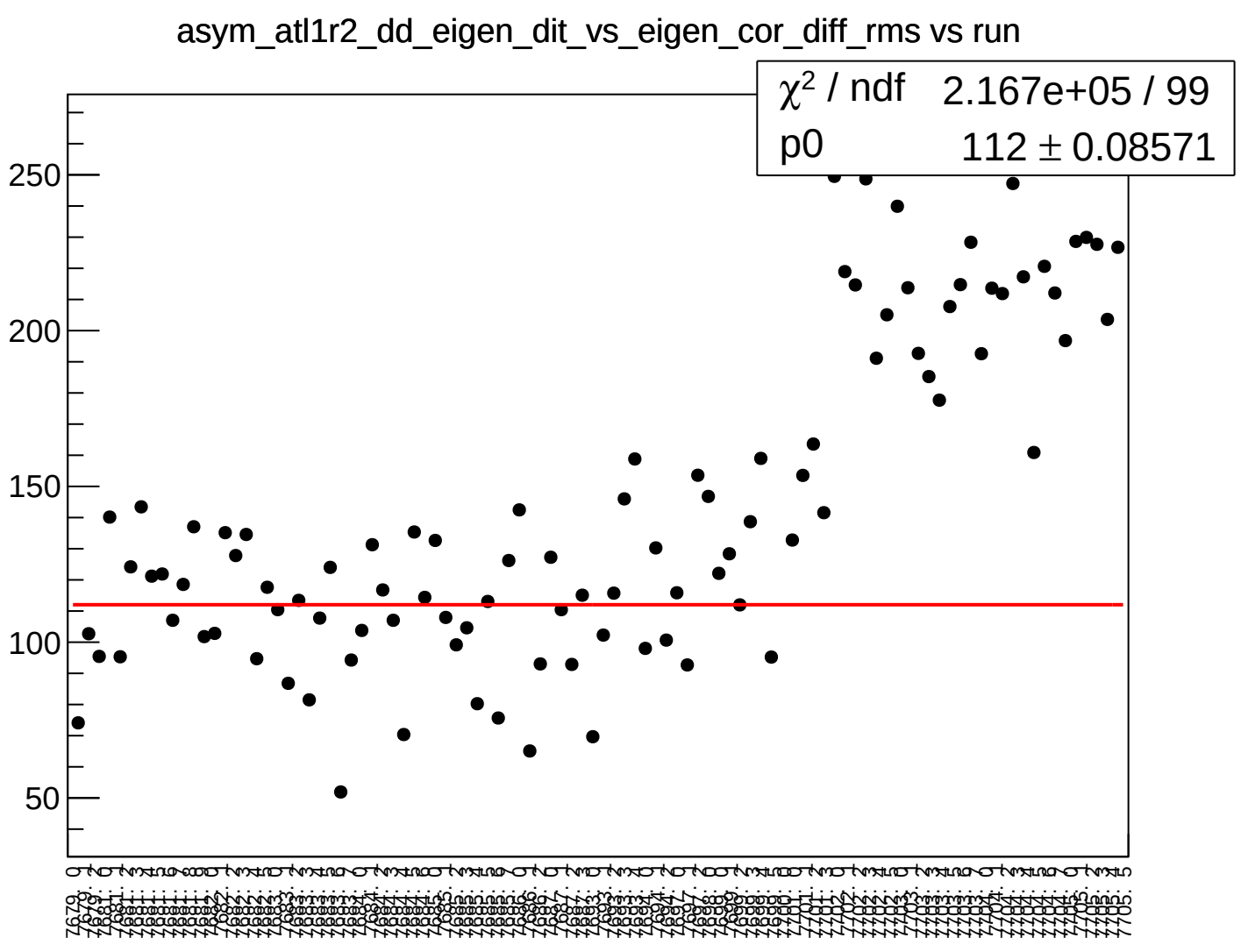

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.92 / 99
p0 0.008427 ± 0.1212
pull
Entries 100
Mean 101.2
Std Dev 12.59

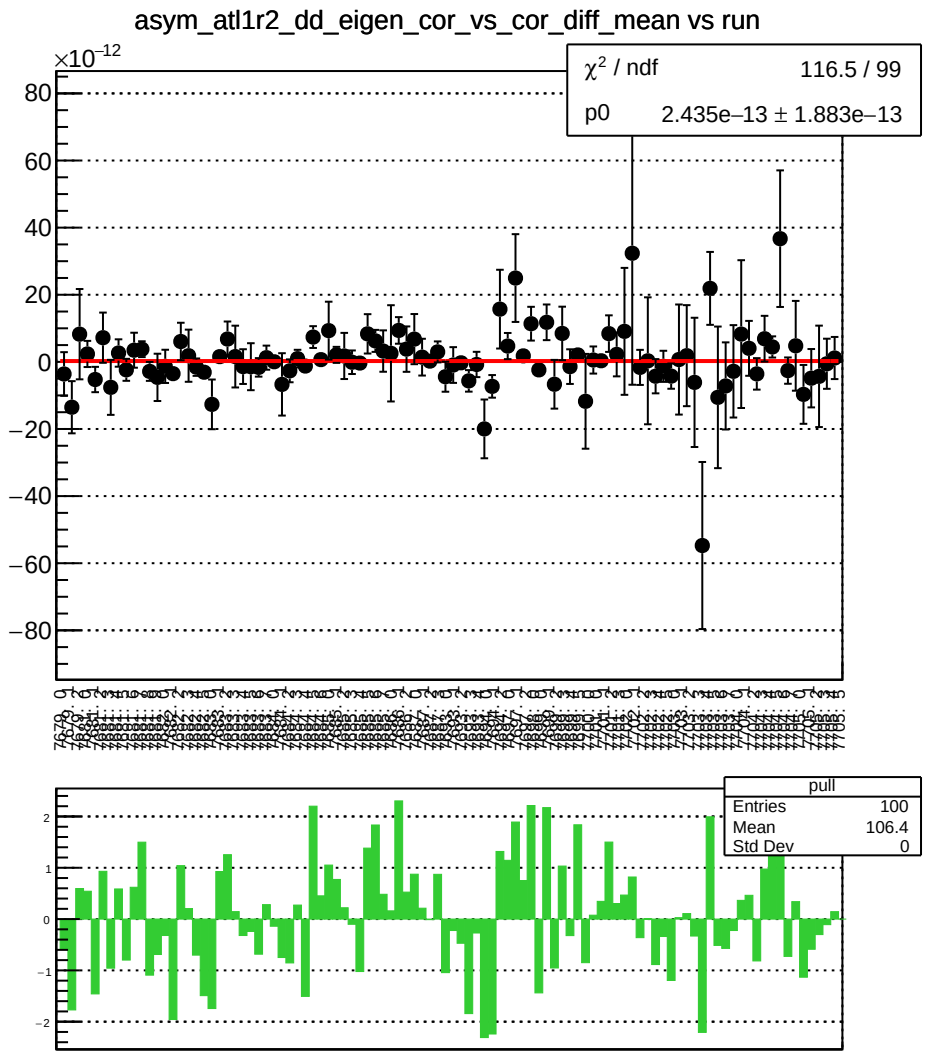

pull1D
Entries 100
Mean 0.04821
Std Dev 0.9884

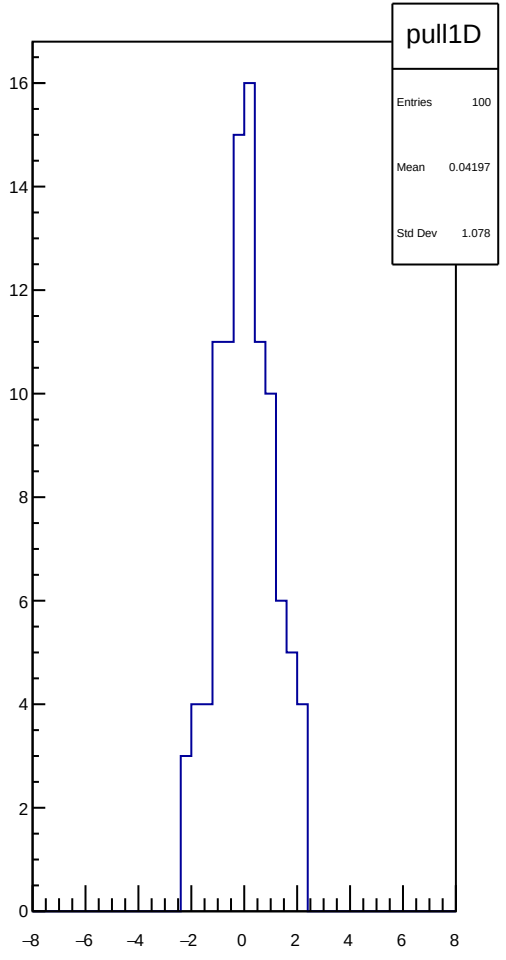

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.167e+05 / 99
p0 112 ± 0.08571
250
200
150
100
50

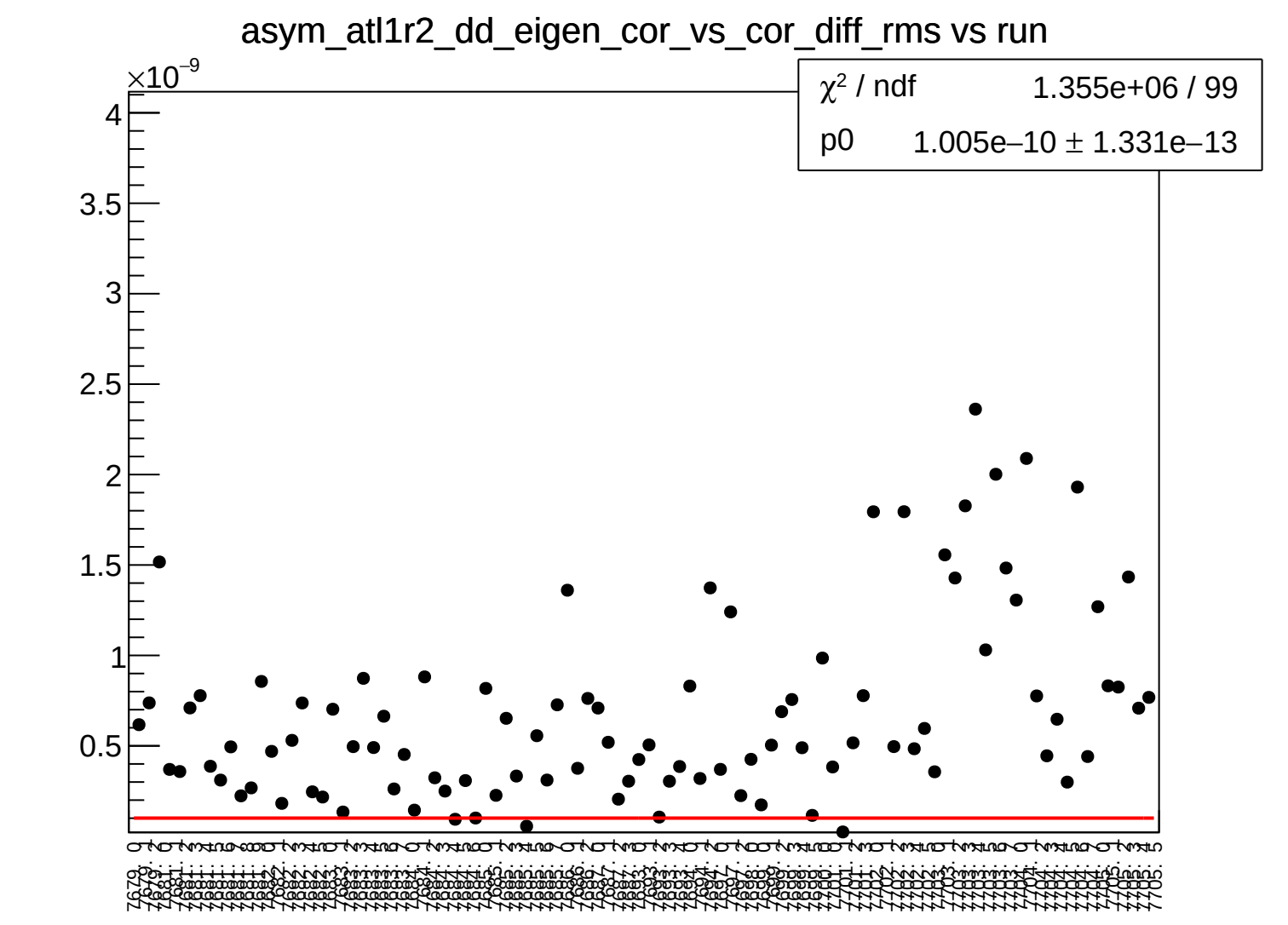

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.92 / 99
p0 0.008427 ± 0.1212
pull
Entries 100
Mean 101.2
Std Dev 12.59

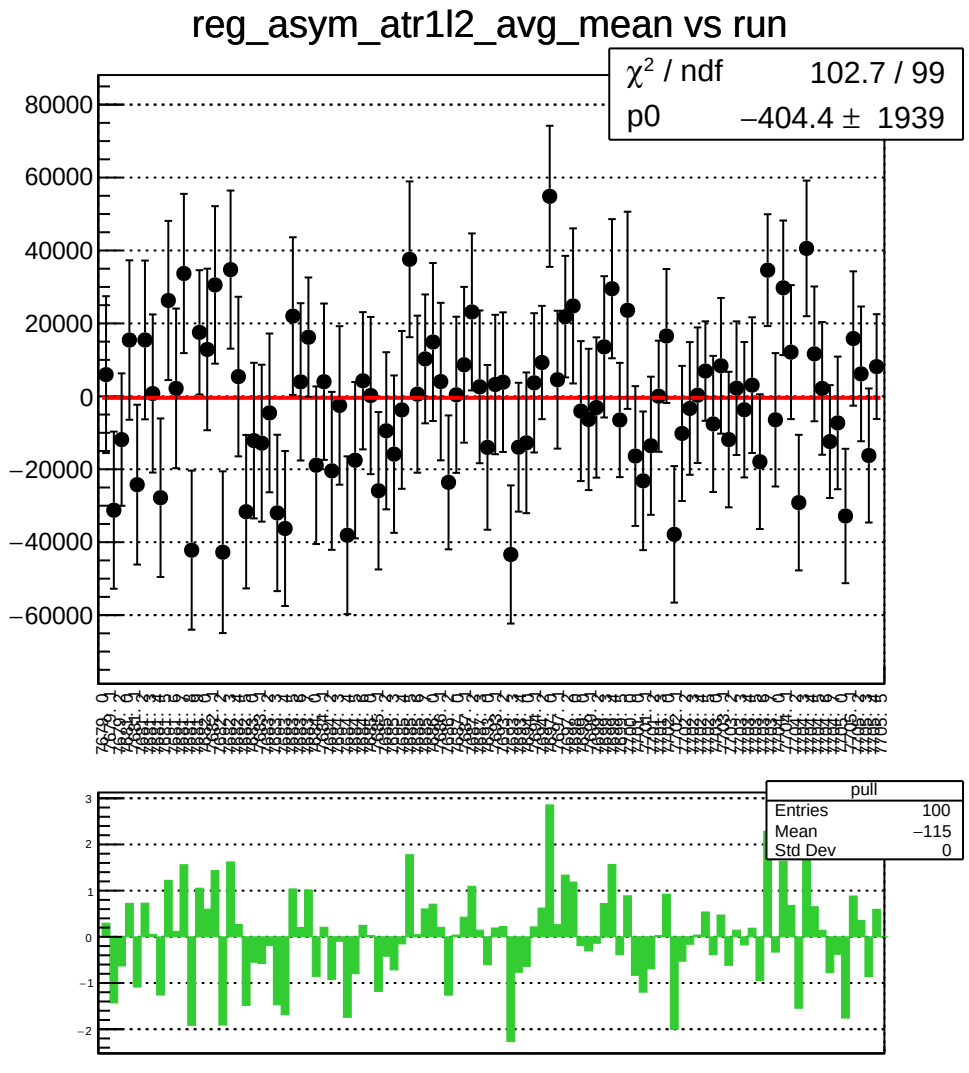

pull1D
Entries 100
Mean 0.04821
Std Dev 0.9884

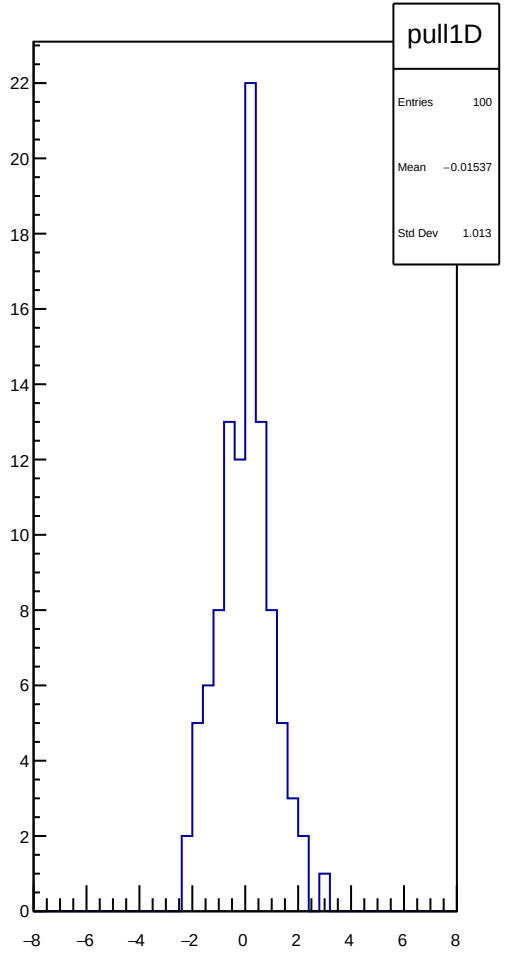

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.167e+05 / 99
p0 112 ± 0.08571
250
200
150
100
50

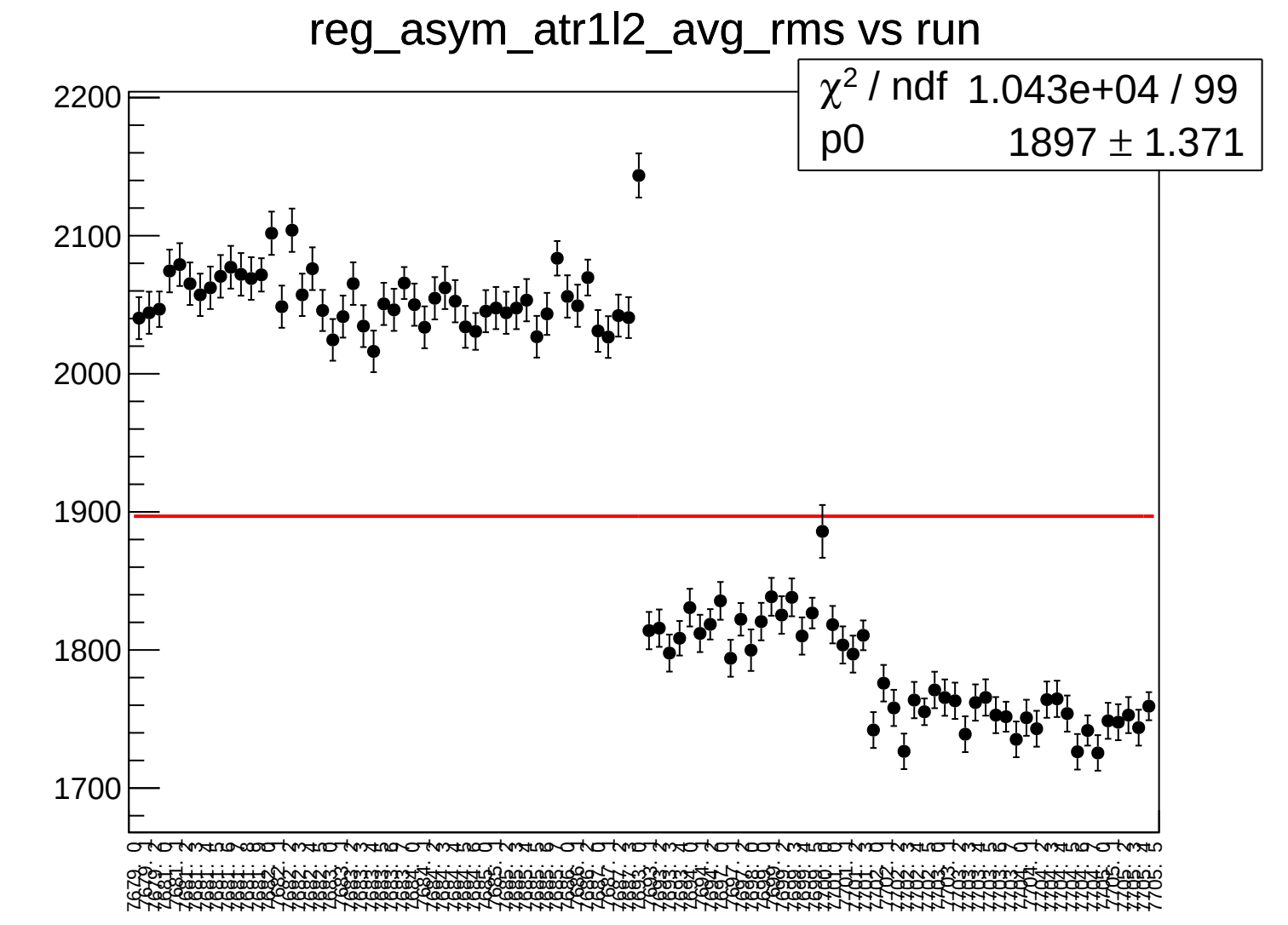

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 116.5 / 99
p0 2.435e−13 ± 1.883e−13
80
60
40
20
0
−20
−40
−60
−80
pull
Entries 100
Mean 106.4
Std Dev 0
2
1
0
−1
−2

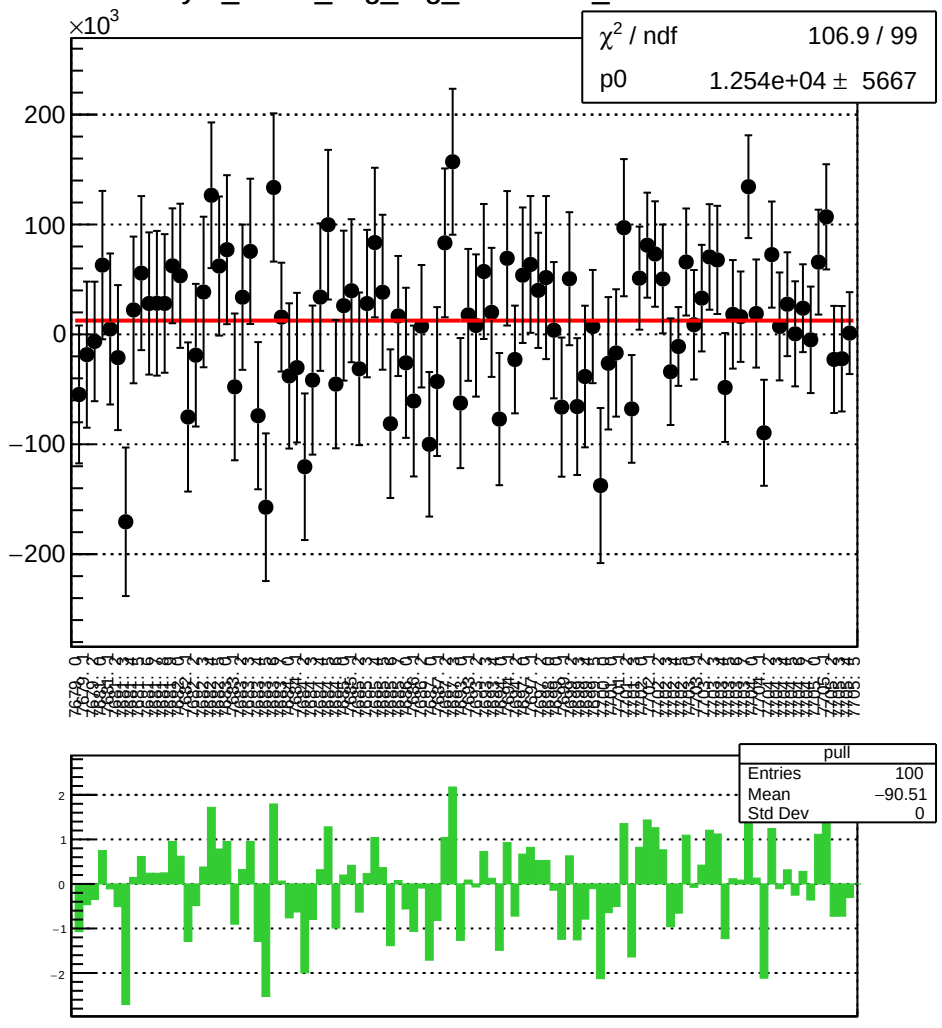

pull1D
Entries 100
Mean 0.04197
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

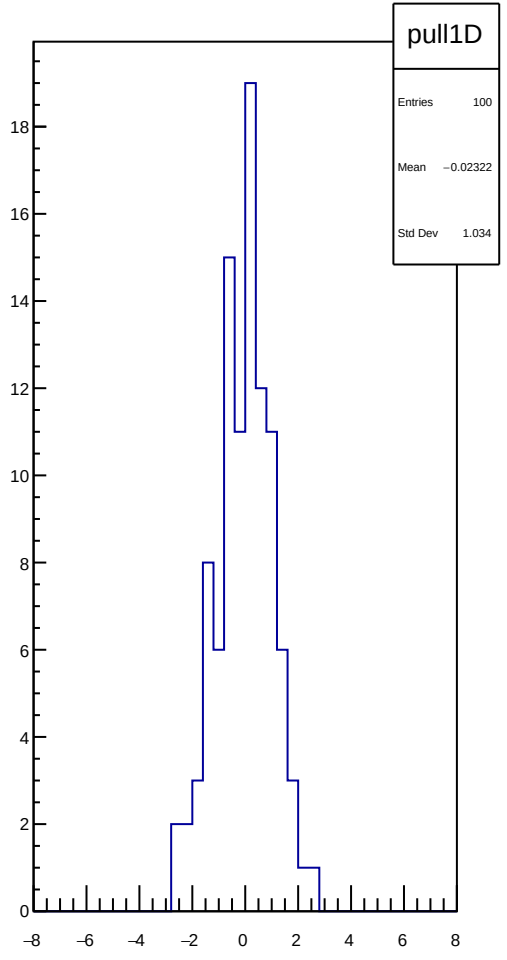

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.355e+06 / 99
p0 1.005e−10 ± 1.331e−13
4
3.5
3
2.5
2
1.5
1
0.5


reg_asym_atr1l2_avg_mean vs run
χ² / ndf 102.7 / 99
p0 −404.4 ± 1939
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −115
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 100
Mean −0.01537
Std Dev 1.013
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_avg_rms vs run
χ² / ndf 1.043e+04 / 99
p0 1897 ± 1.371
2200
2100
2000
1900
1800
1700


asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 106.9 / 99
p0 1.254e+04 ± 5667
200
100
0
−100
−200
pull
Entries 100
Mean −90.51
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 100
Mean −0.02322
Std Dev 1.034
18
16
14
12
10
8
6
4
2
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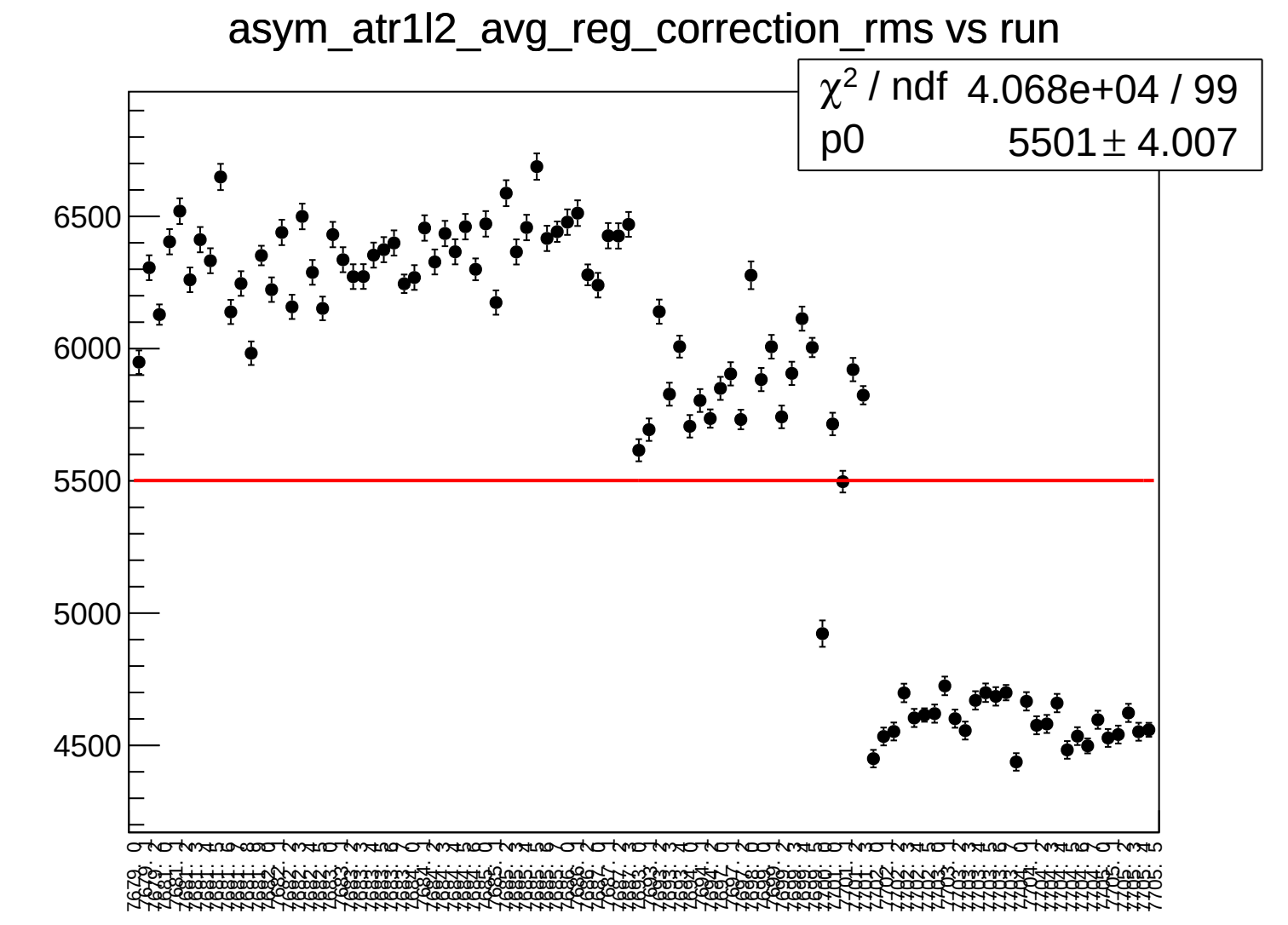
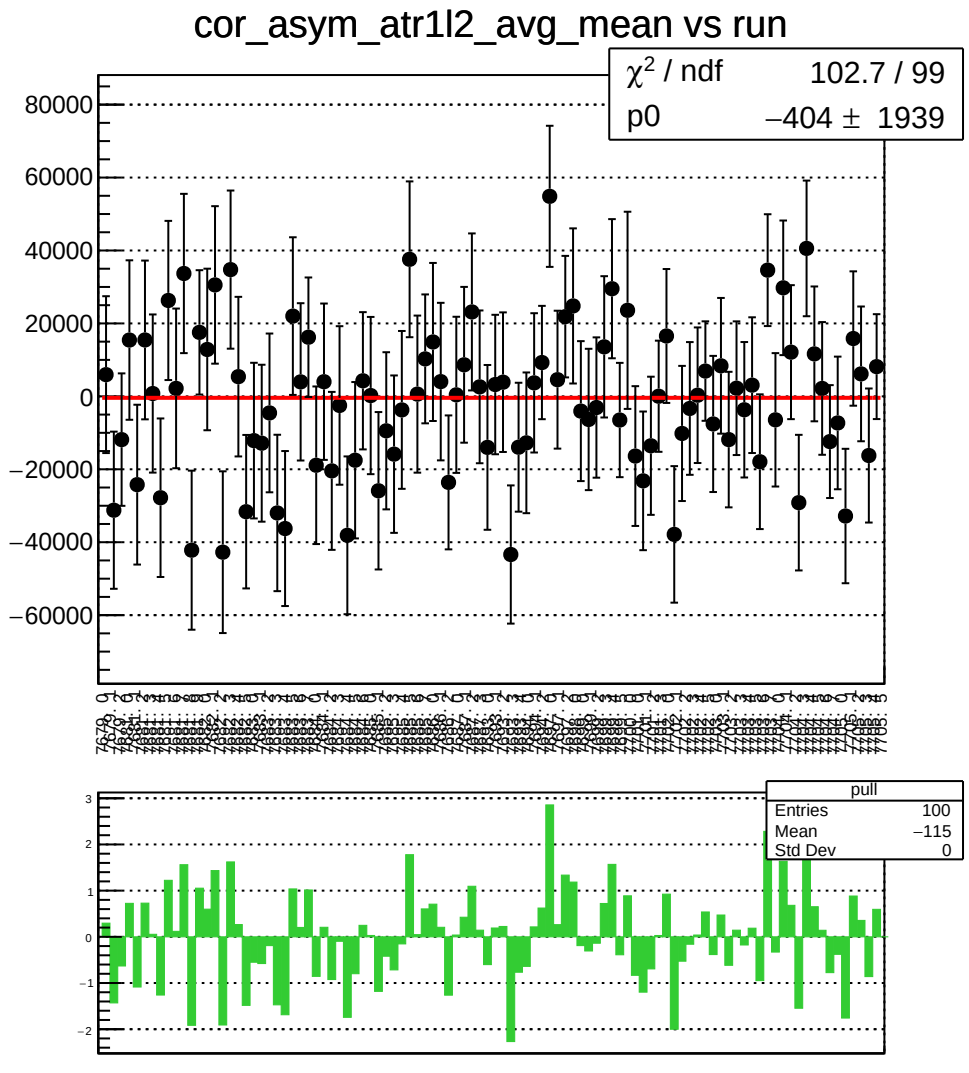
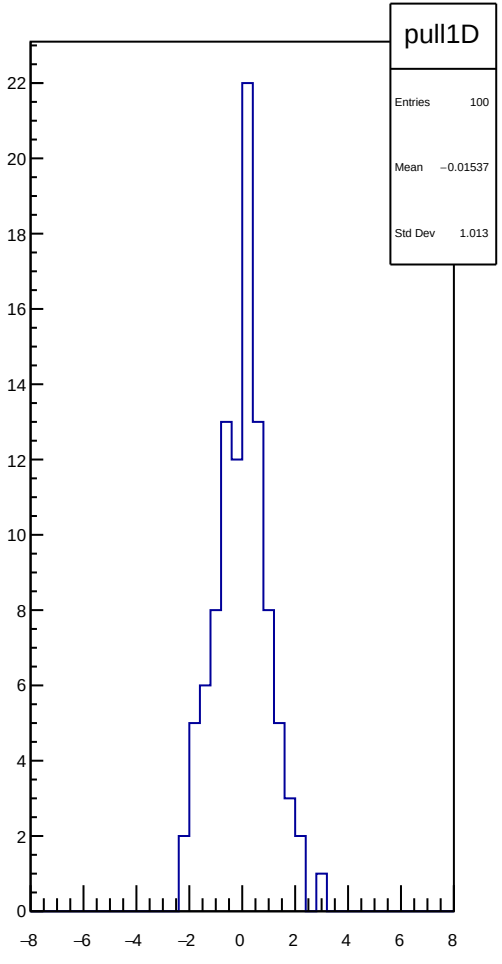
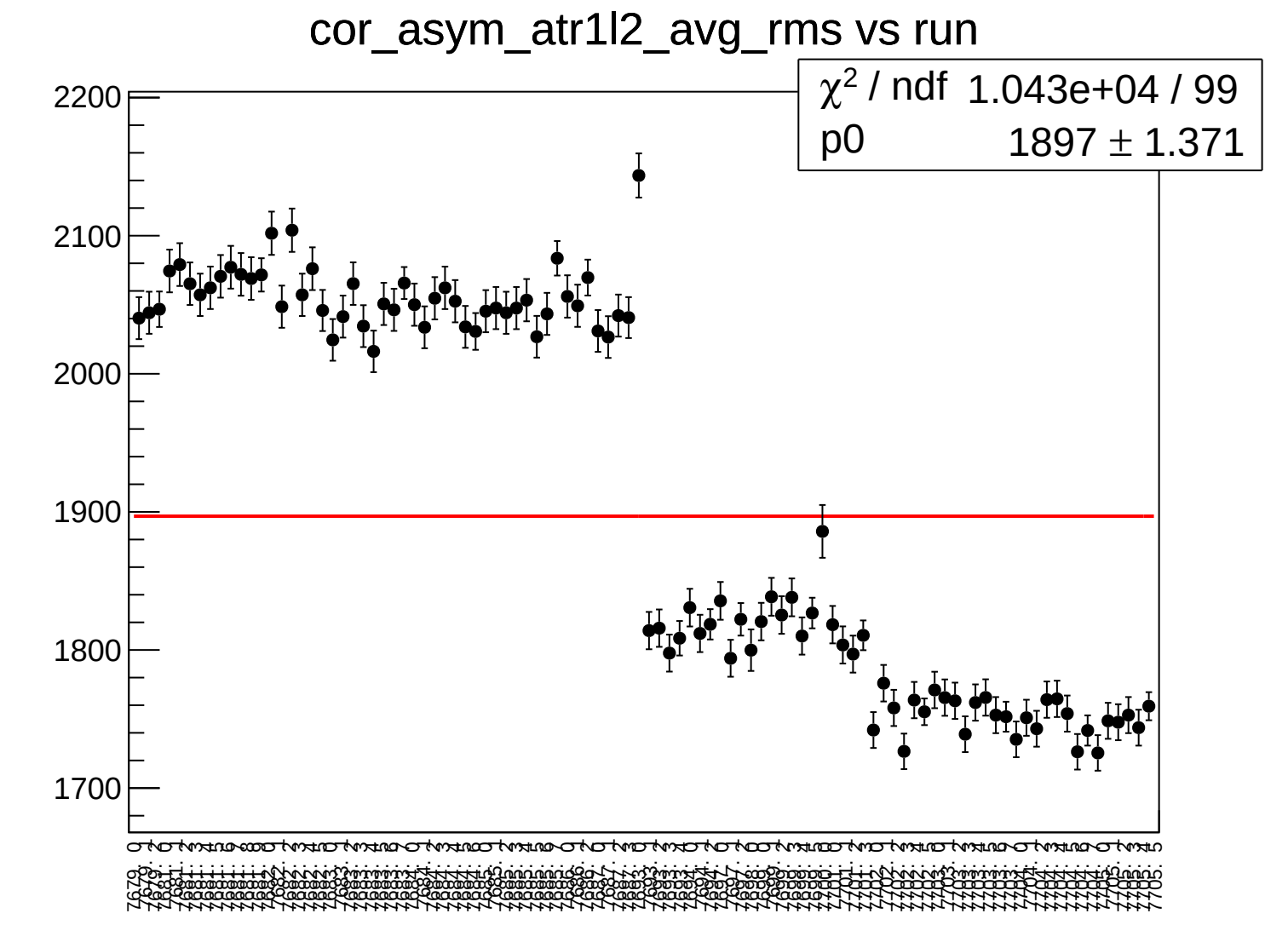
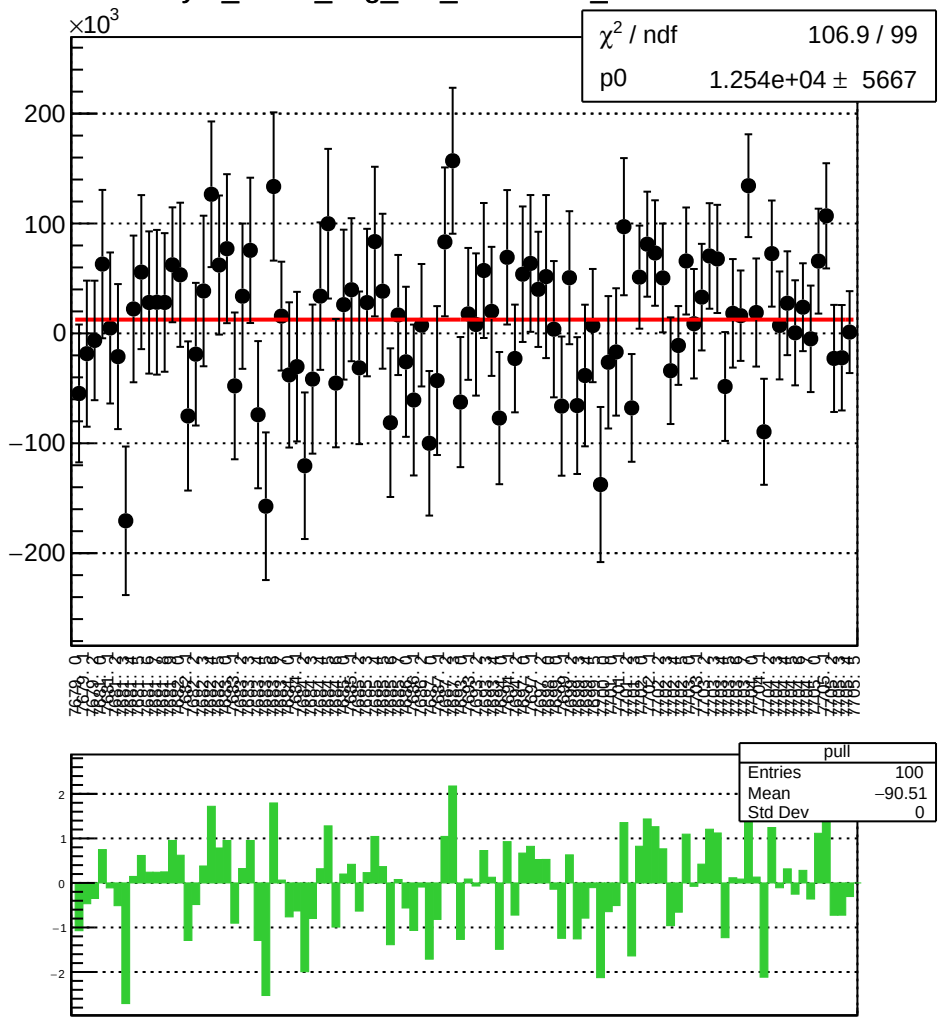
−8
−6
−4
−2
0
2
4
6
8

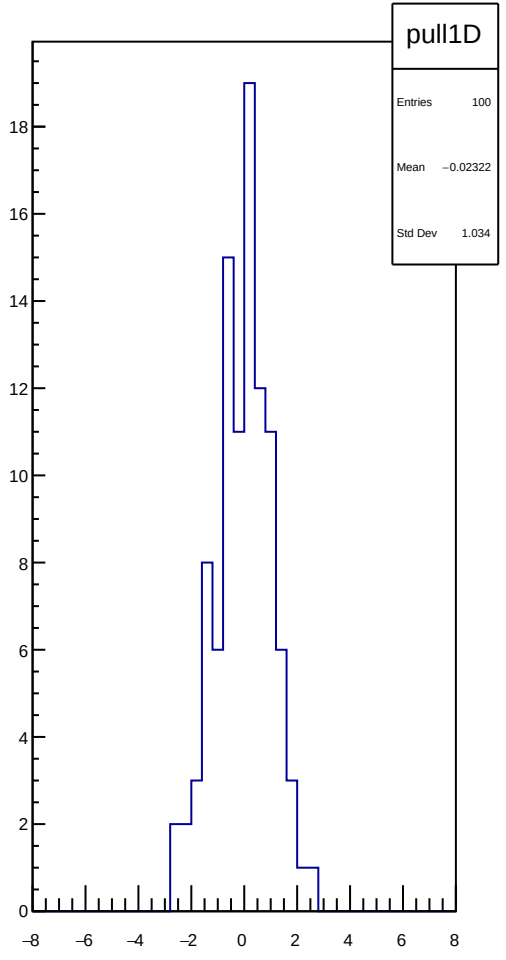

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 4.068e+04 / 99
p0 5501 ± 4.007
6500
6000
5500
5000
4500


cor_asym_atr1l2_avg_mean vs run
χ² / ndf 102.7 / 99
p0 −404 ± 1939
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −115
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 100
Mean −0.01537
Std Dev 1.013
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atr1l2_avg_rms vs run
χ² / ndf 1.043e+04 / 99
p0 1897 ± 1.371
2200
2100
2000
1900
1800
1700


asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 106.9 / 99
p0 1.254e+04 ± 5667
200
100
0
−100
−200
pull
Entries 100
Mean −90.51
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 100
Mean −0.02322
Std Dev 1.034
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16
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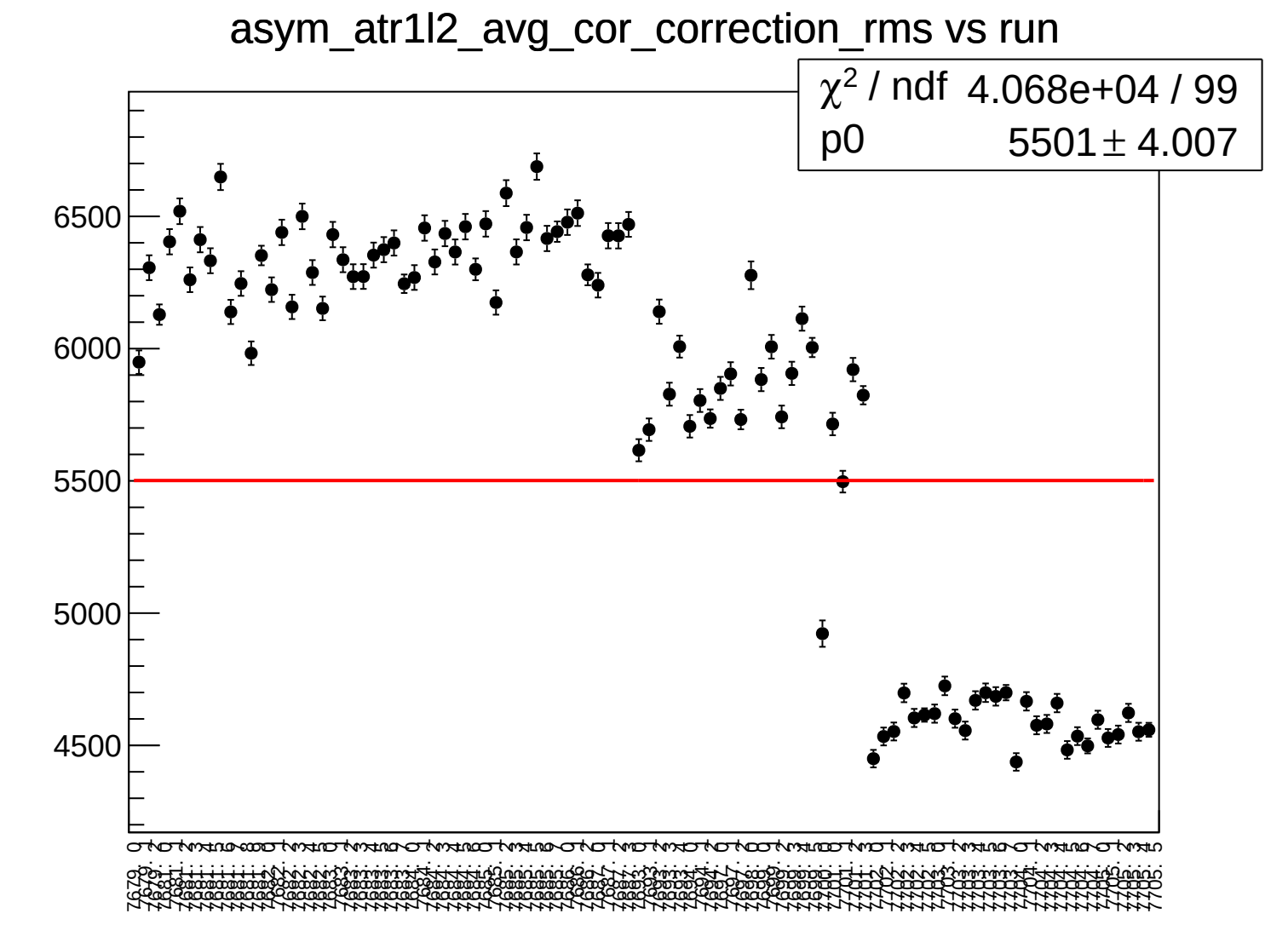
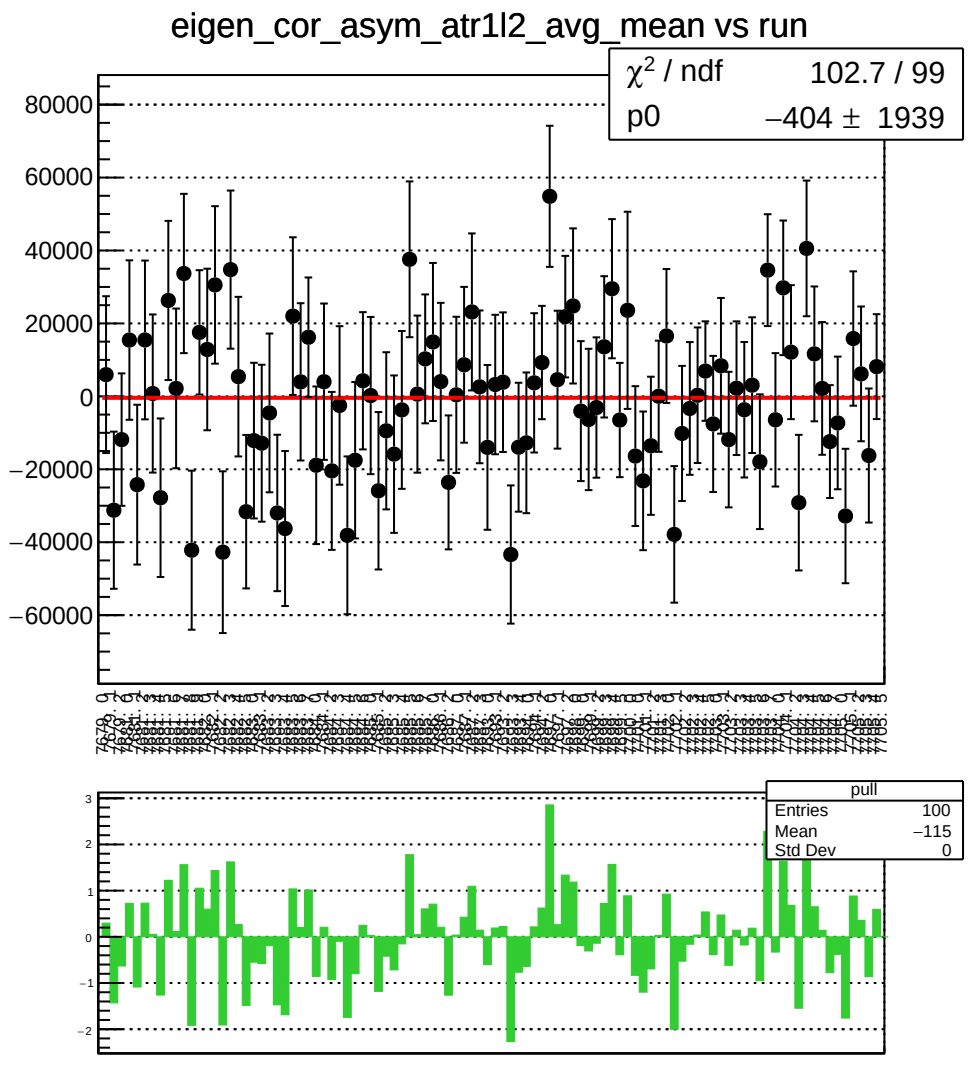
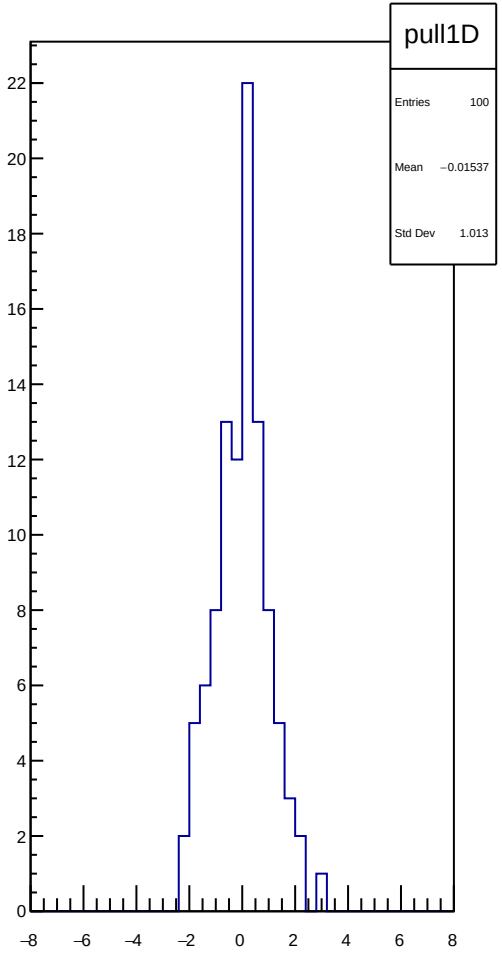
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 4.068e+04 / 99
p0 5501 ± 4.007
6500
6000
5500
5000
4500


eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 102.7 / 99
p0 −404 ± 1939
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −115
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 100
Mean −0.01537
Std Dev 1.013
22
20
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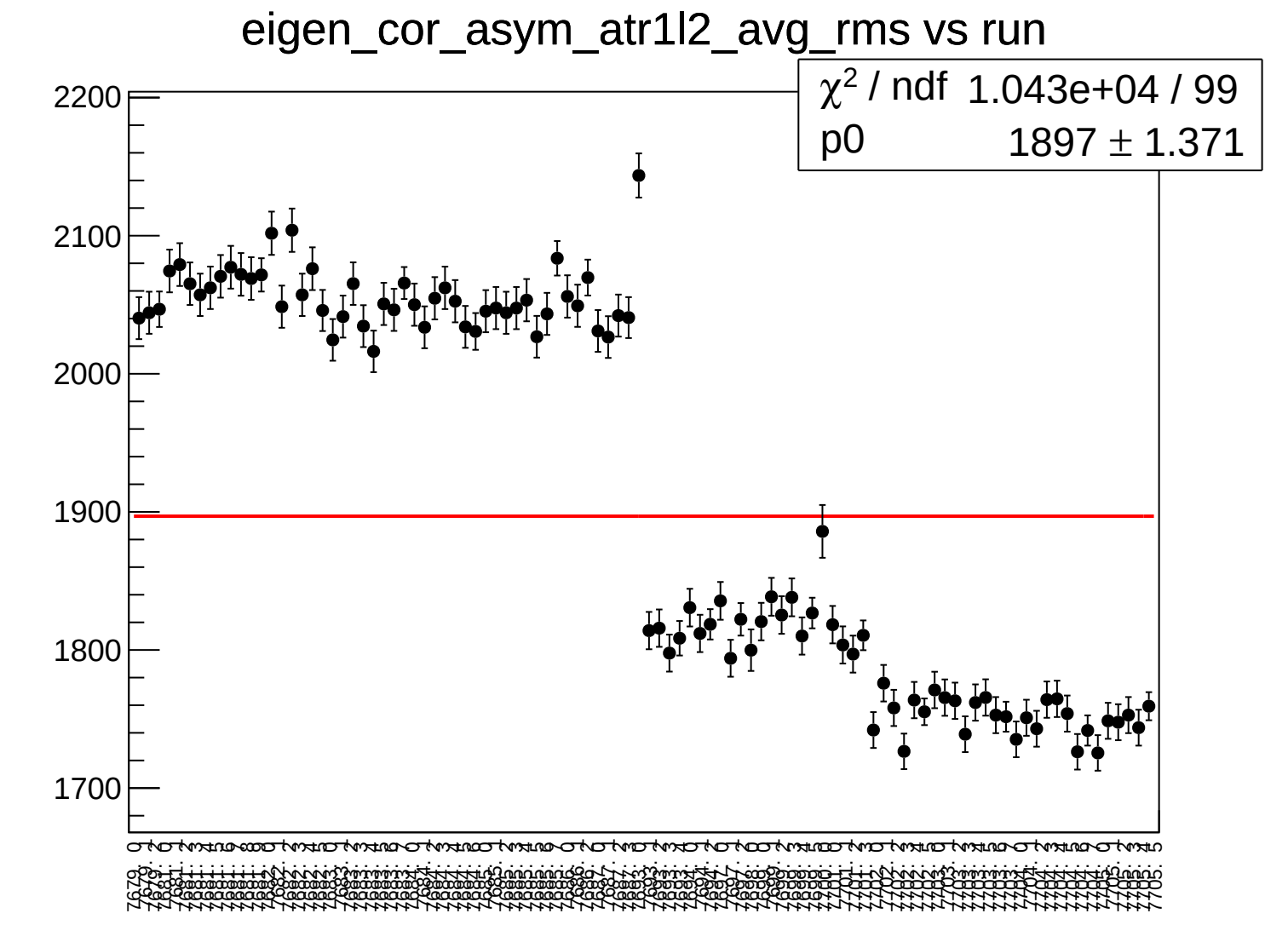
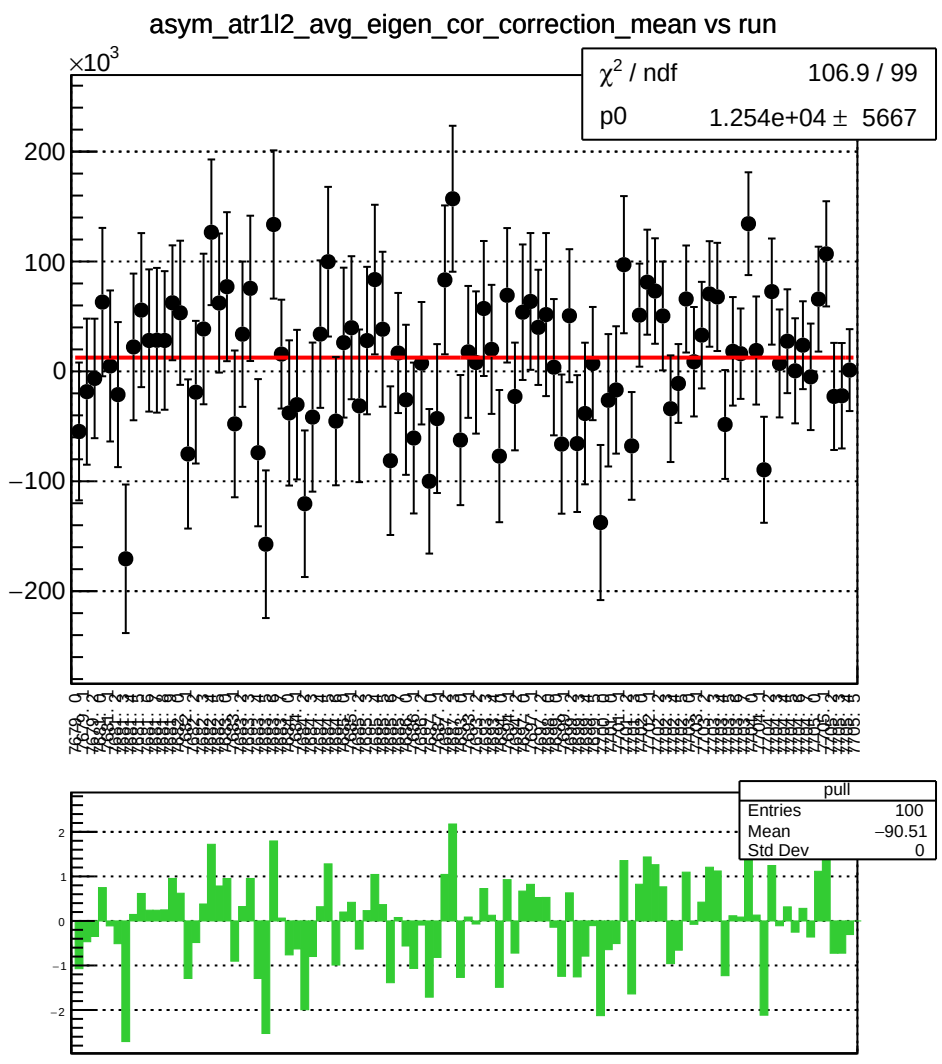
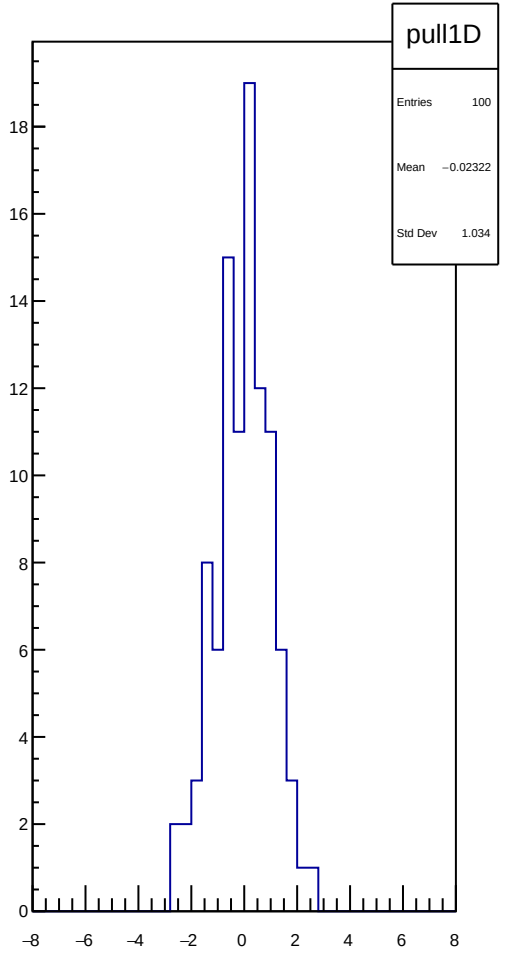
2
4
6
8


eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 1.043e+04 / 99
p0 1897 ± 1.371
2200
2100
2000
1900
1800
1700


asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 106.9 / 99
p0 1.254e+04 ± 5667
200
100
0
−100
−200
pull
Entries 100
Mean −90.51
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 100
Mean −0.02322
Std Dev 1.034
18
16
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10
8
6
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2
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−8
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2
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6
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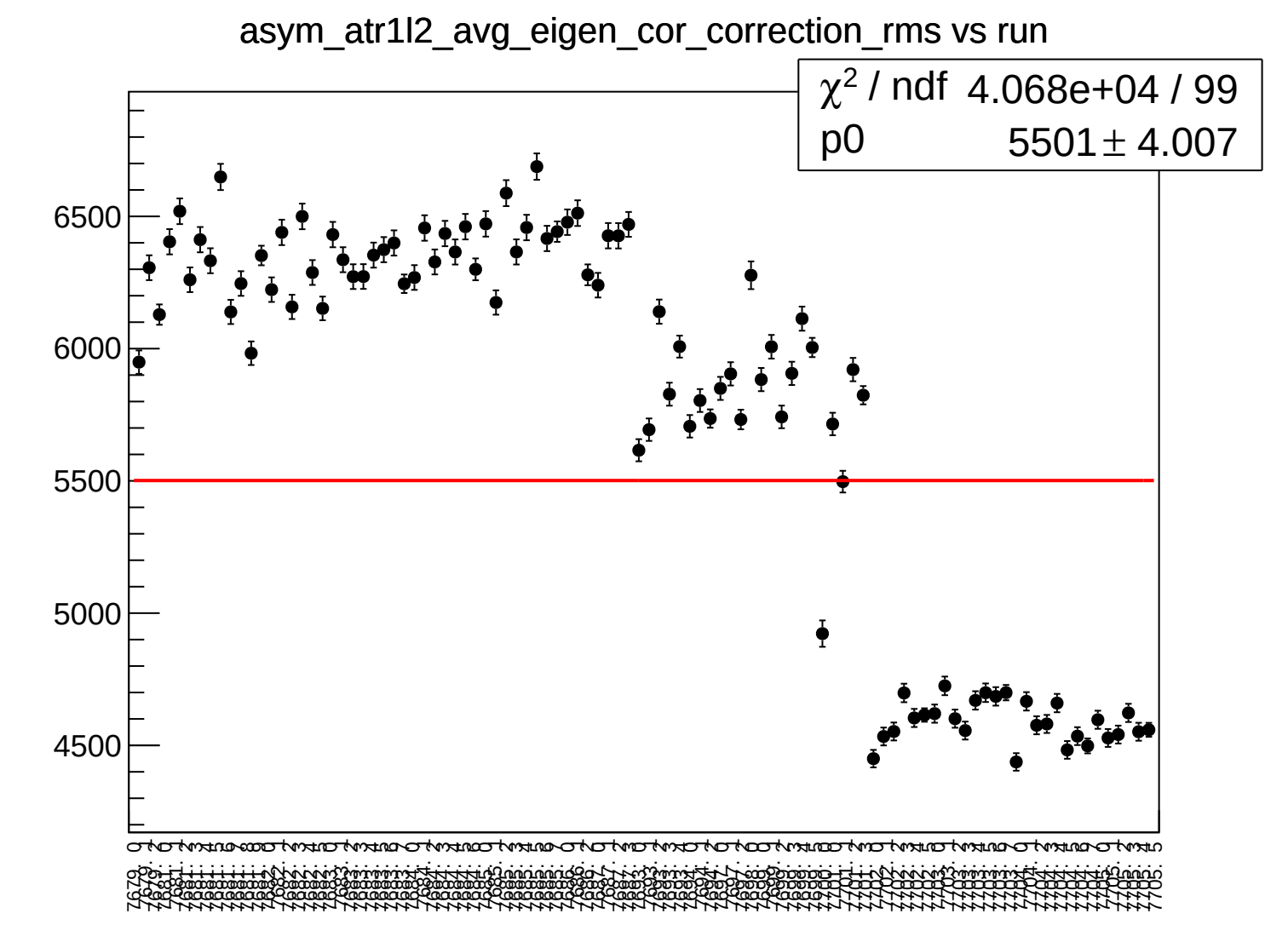
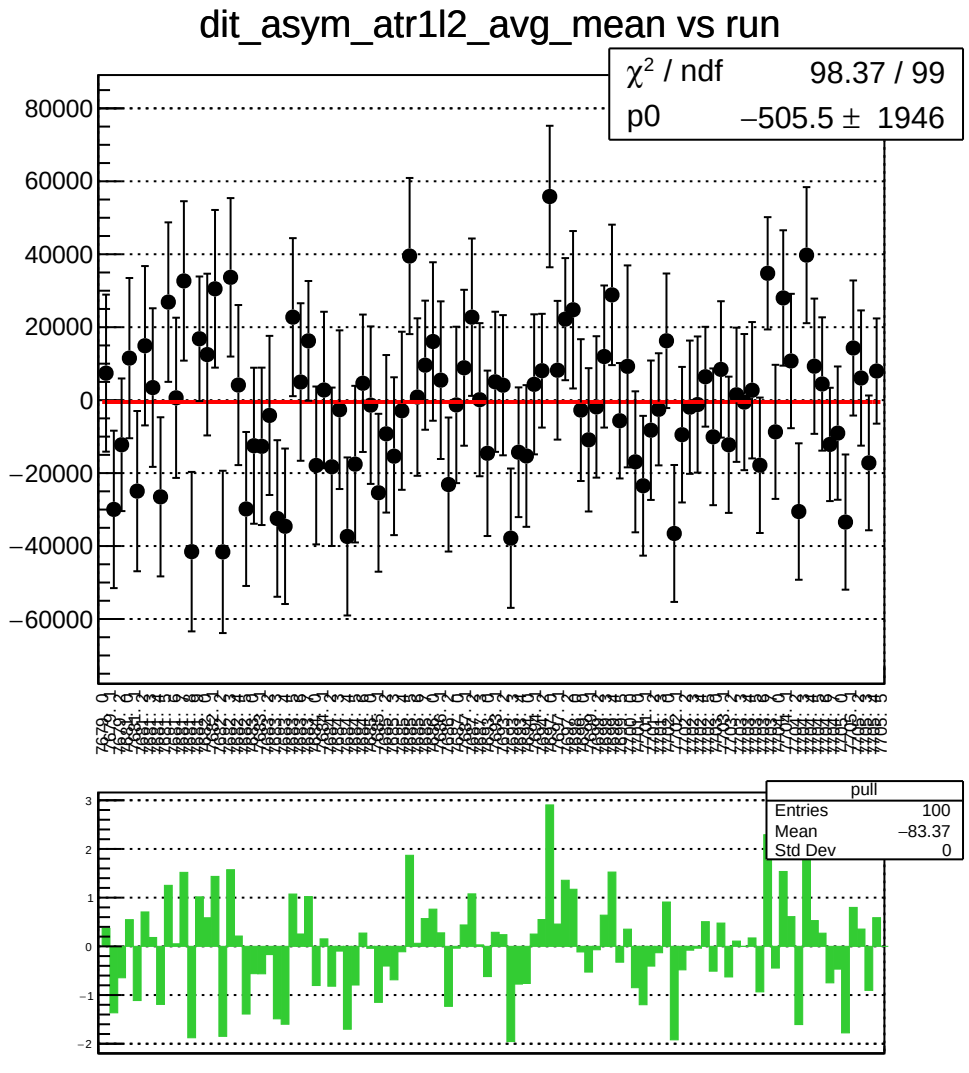
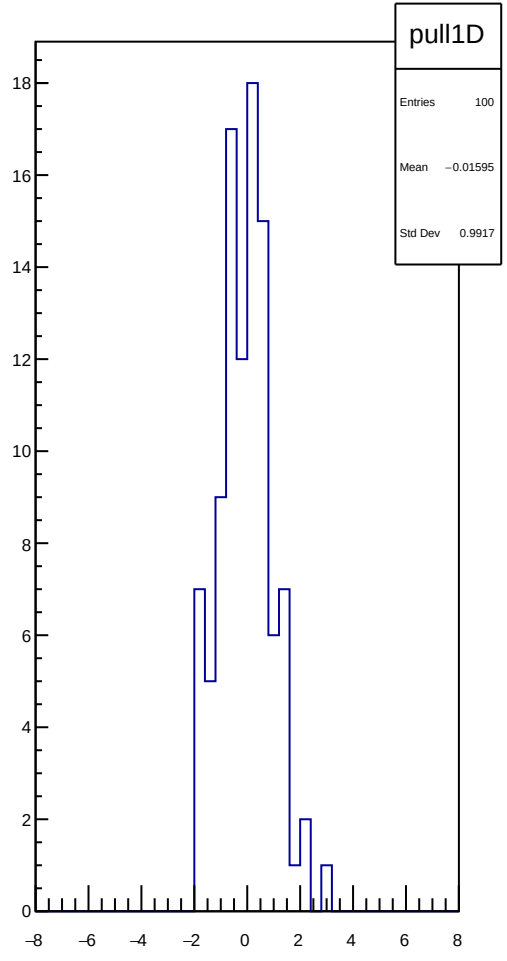
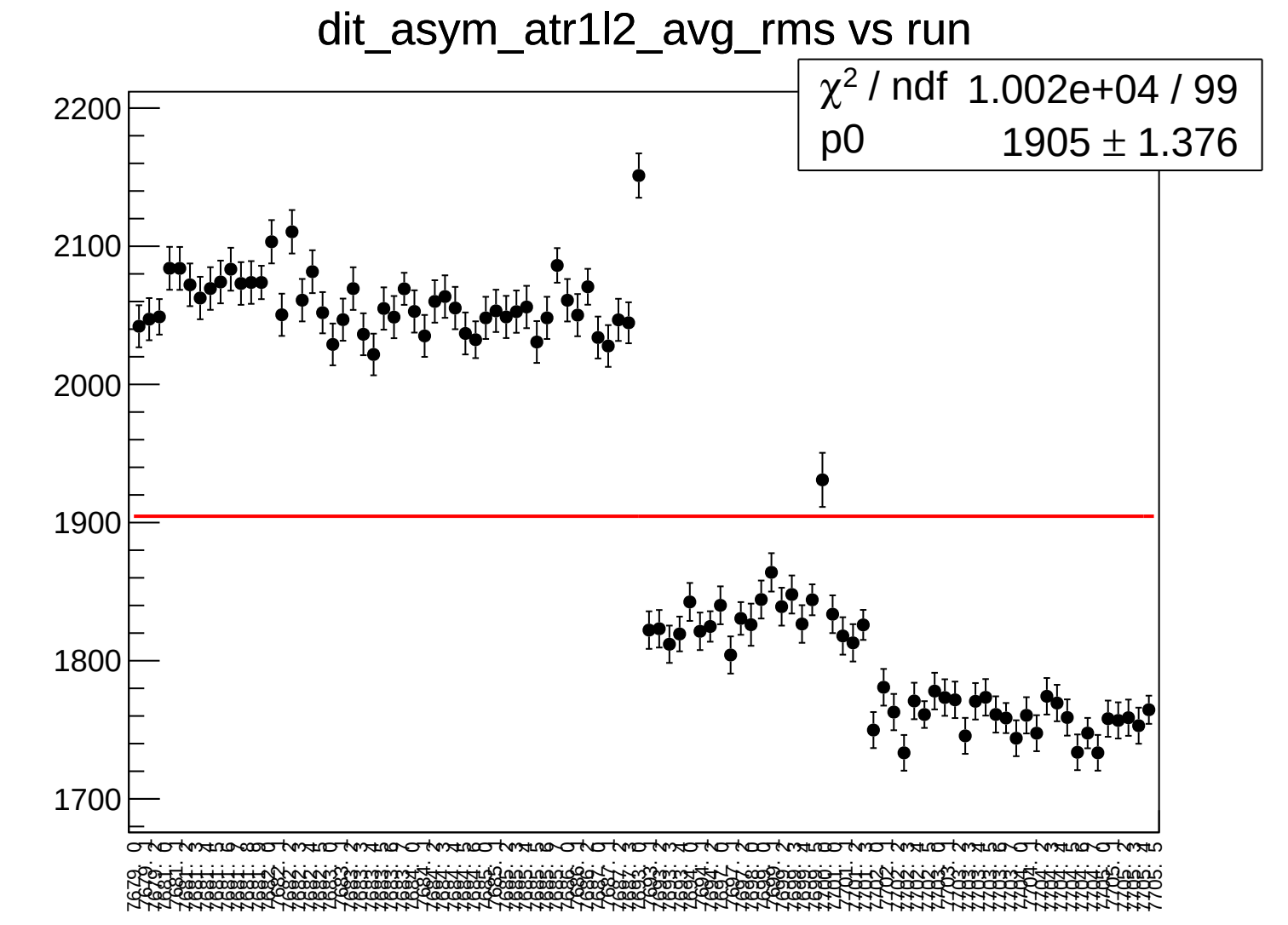
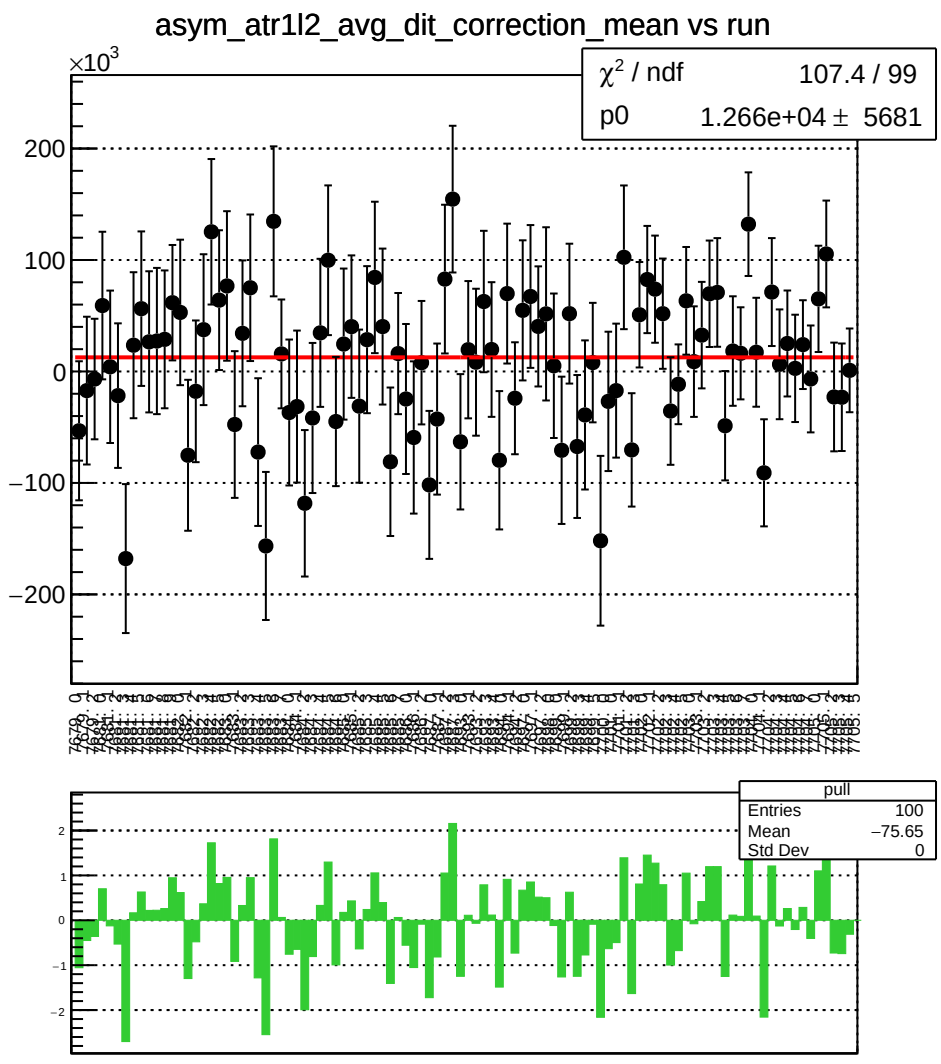
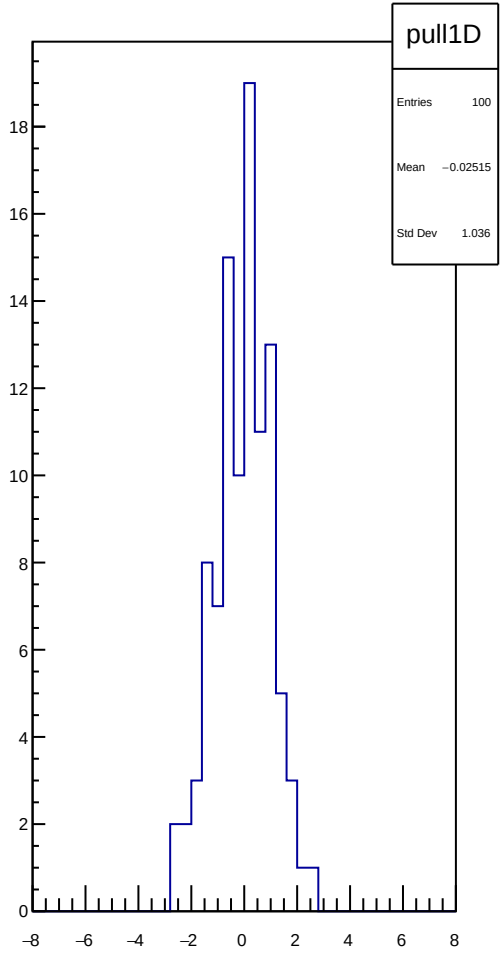

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.068e+04 / 99
p0 5501 ± 4.007
6500
6000
5500
5000
4500

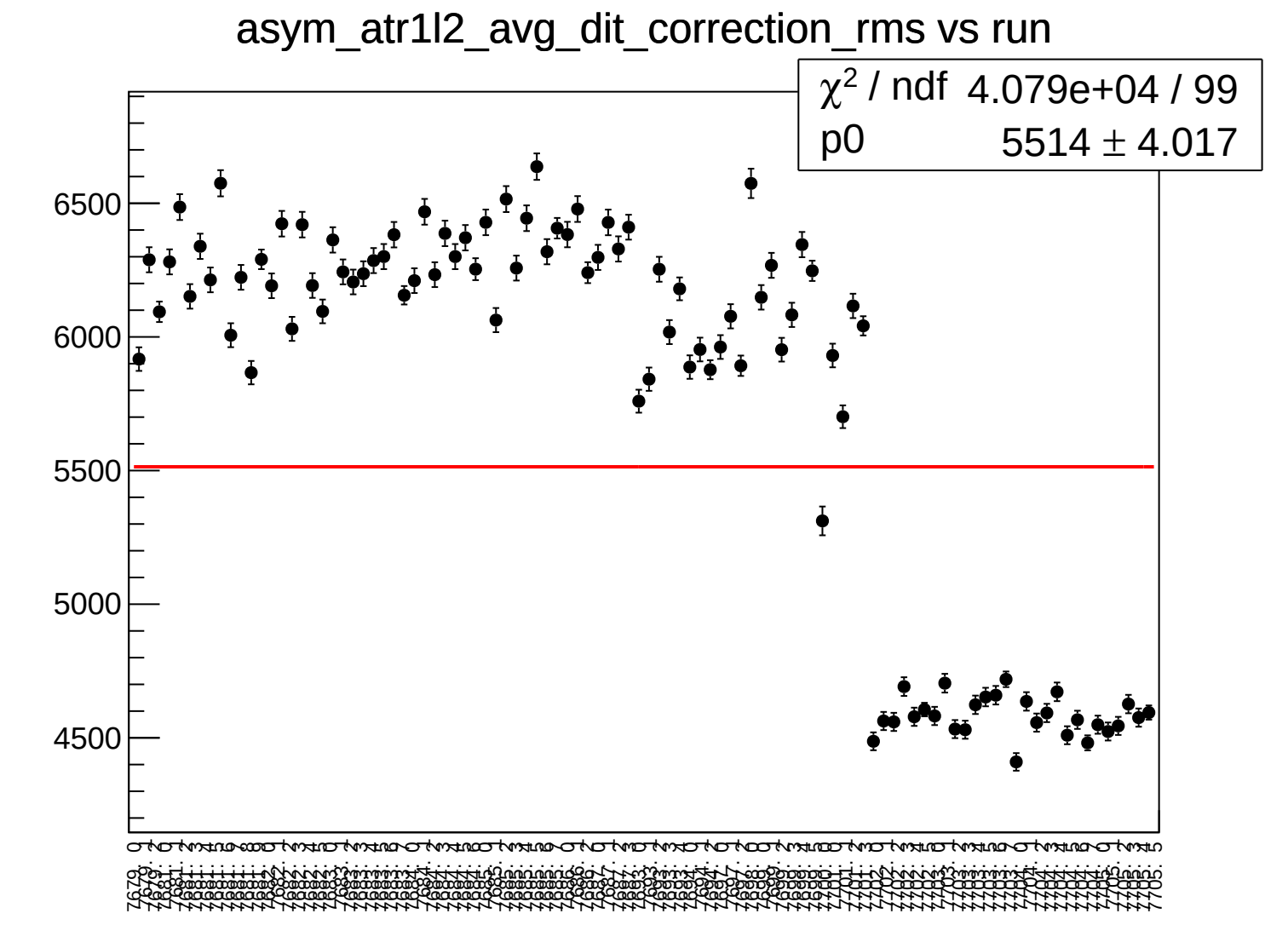

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 98.37 / 99
p0 −505.5 ± 1946
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −83.37
Std Dev 0
3
2
1
0
−1
−2

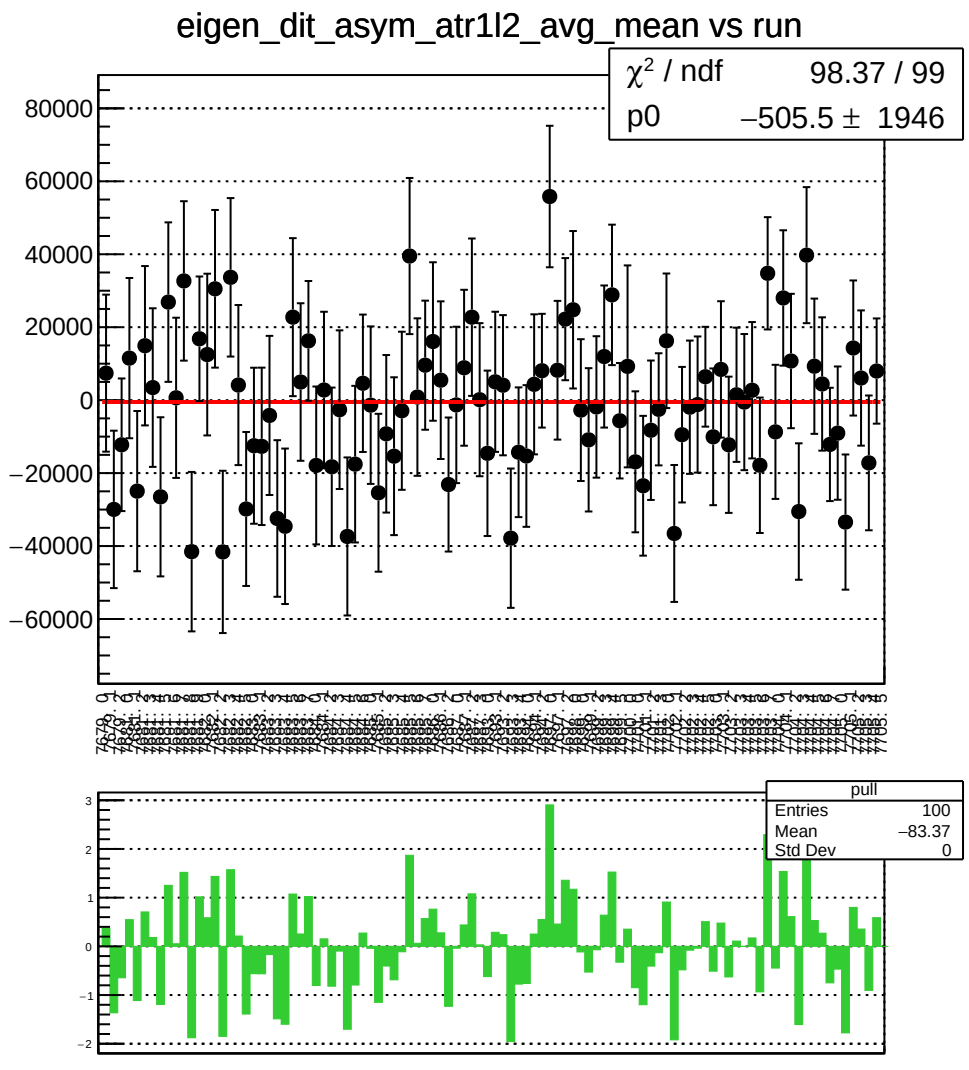

pull1D
Entries 100
Mean −0.01595
Std Dev 0.9917
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

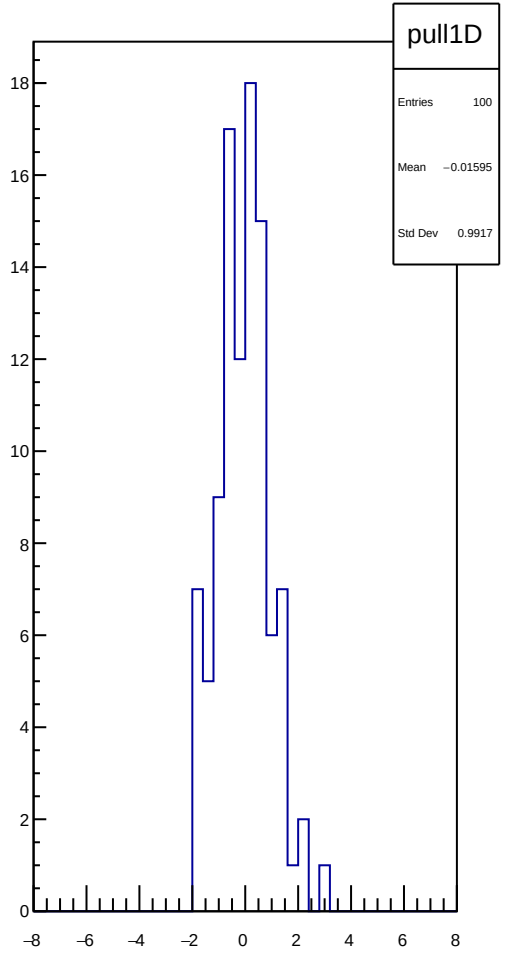

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 1.002e+04 / 99
p0 1905 ± 1.376
2200
2100
2000
1900
1800
1700

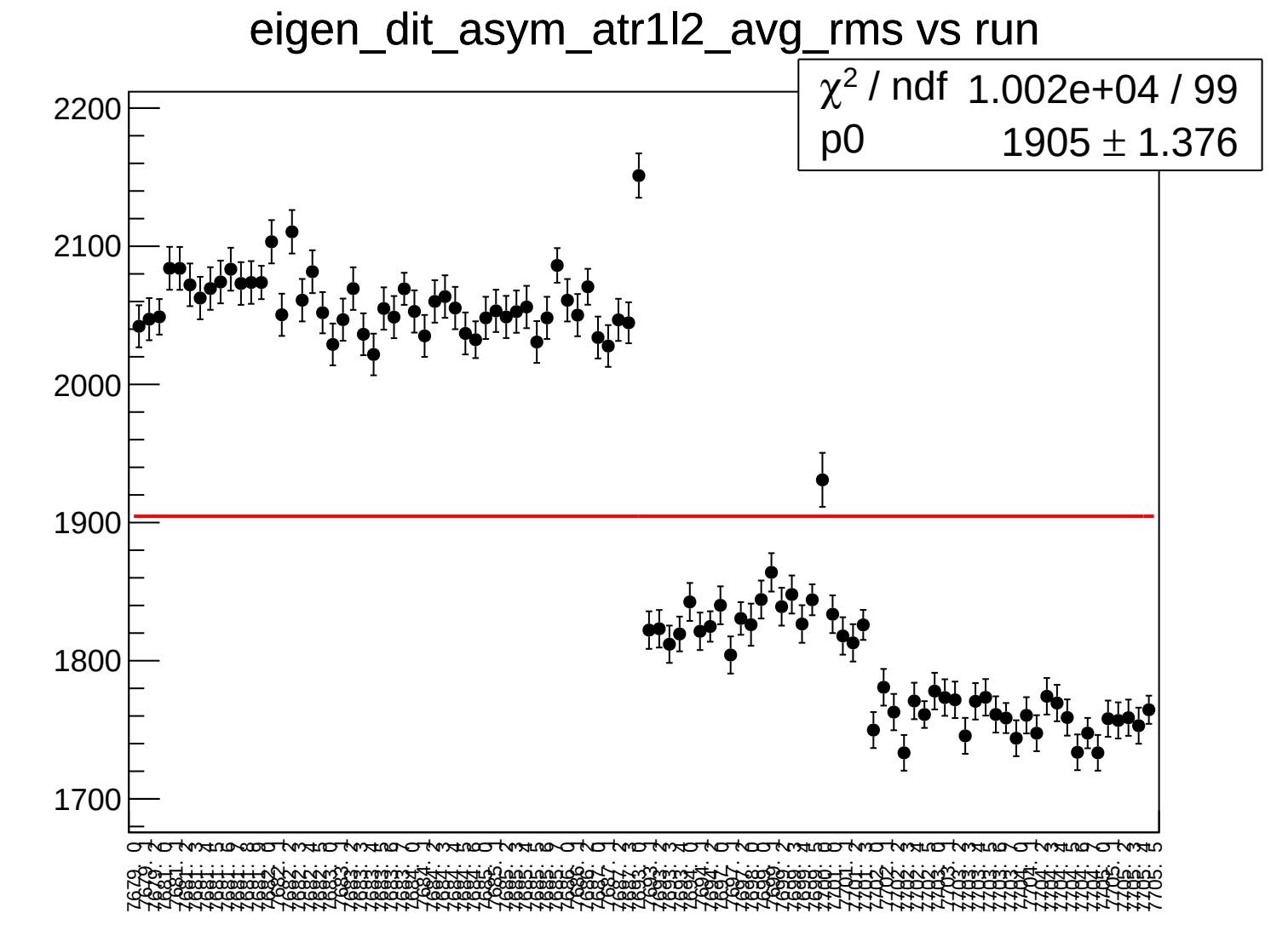

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 107.4 / 99
p0 1.266e+04 ± 5681
200
100
0
−100
−200
pull
Entries 100
Mean −75.65
Std Dev 0
2
1
0
−1
−2

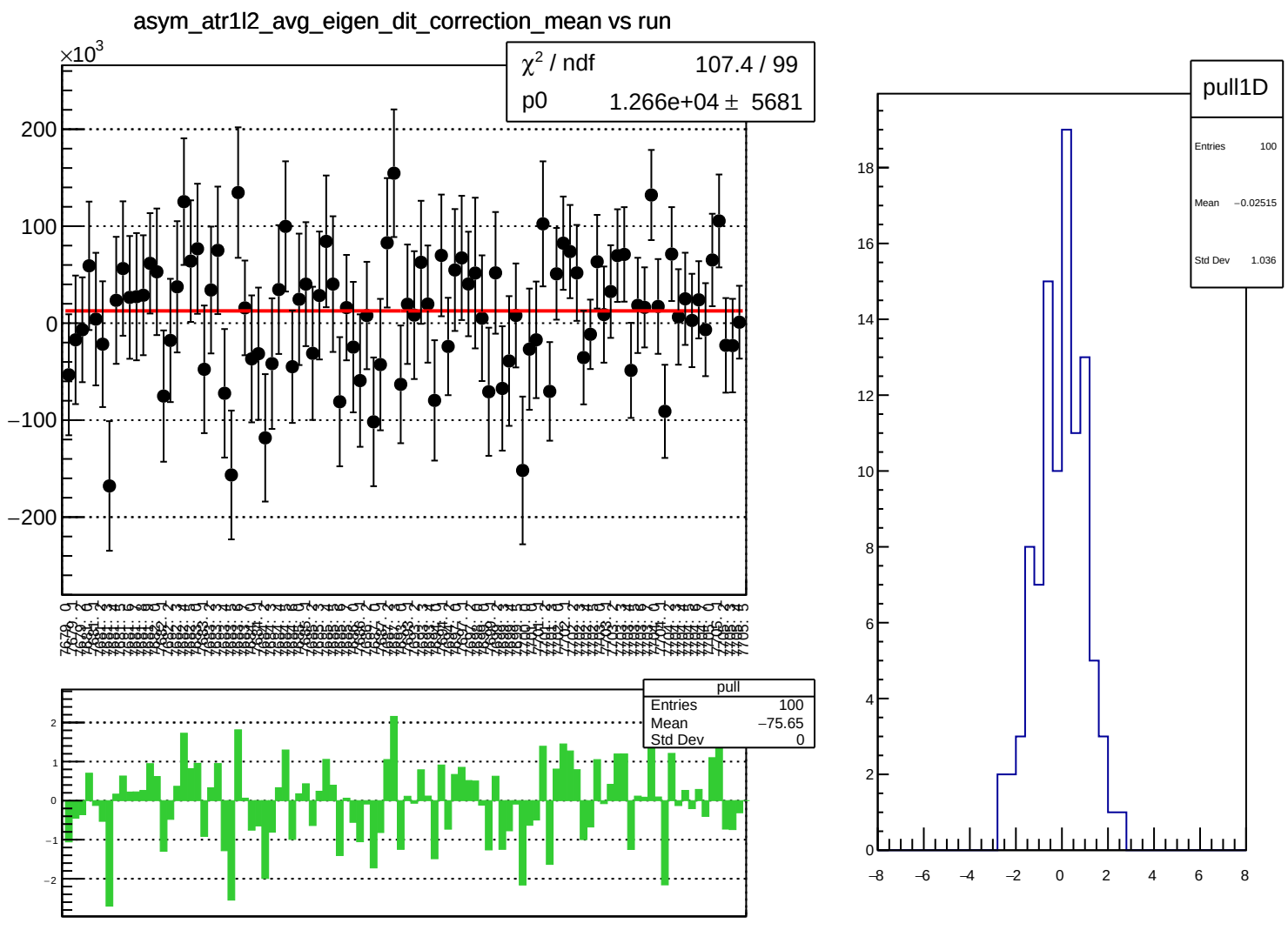

pull1D
Entries 100
Mean −0.02515
Std Dev 1.036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

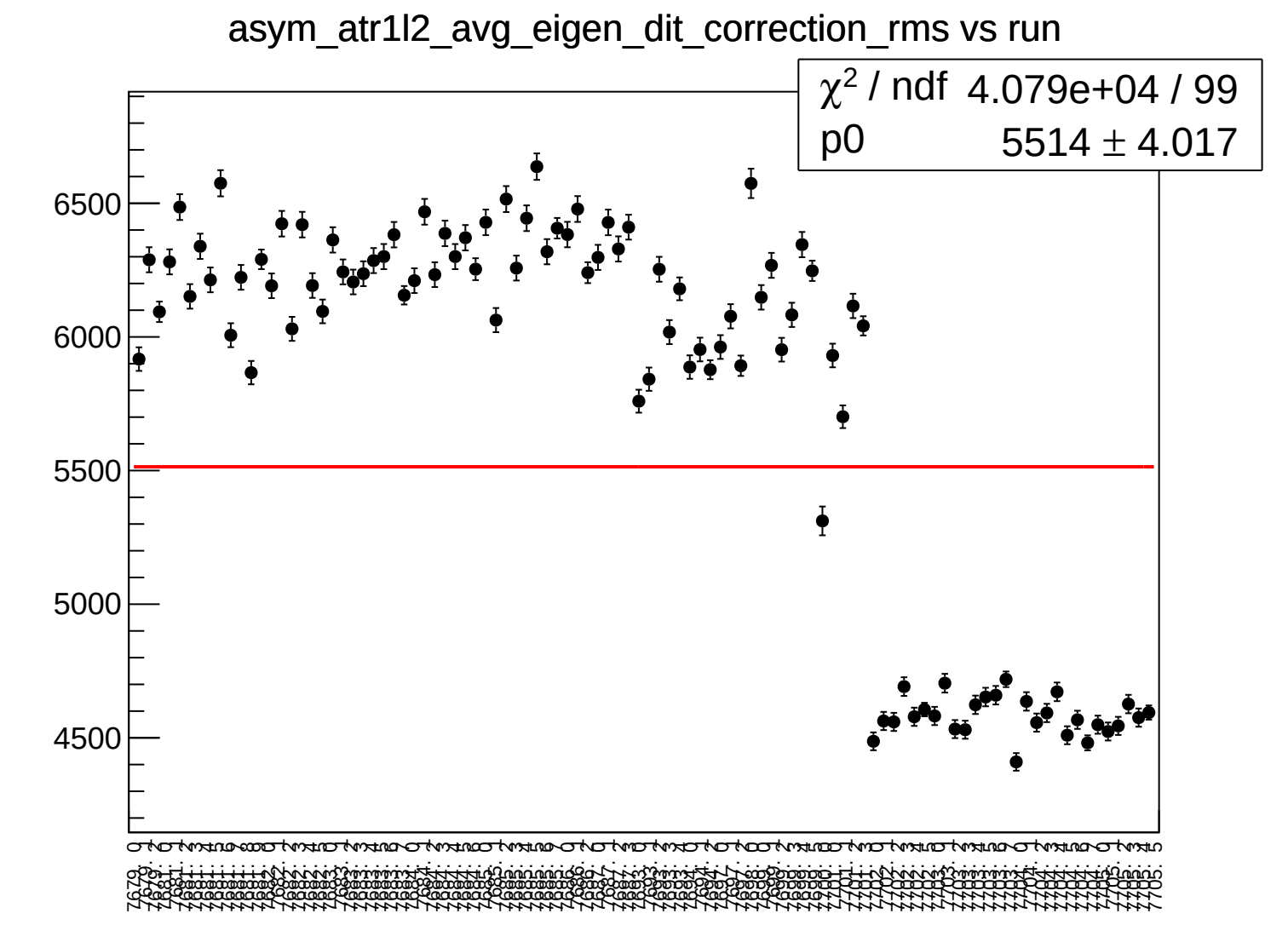

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 4.079e+04 / 99
p0 5514 ± 4.017
6500
6000
5500
5000
4500

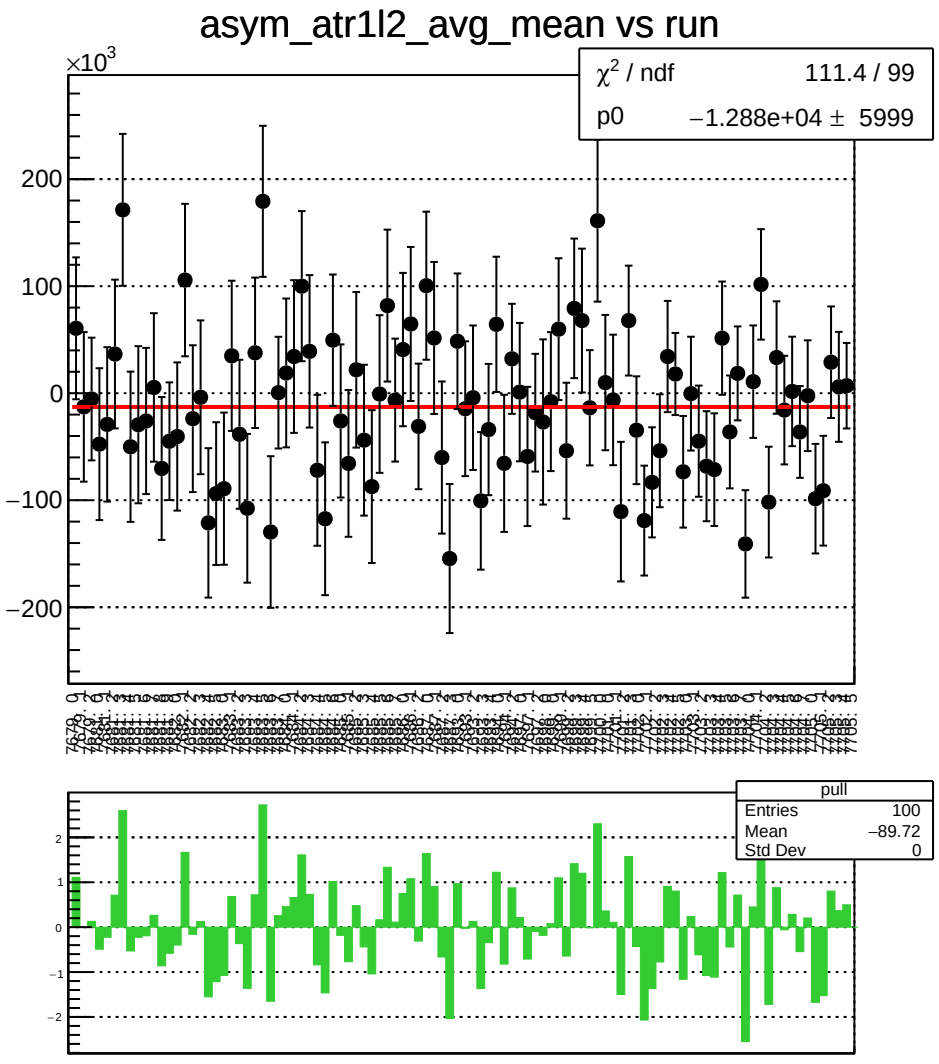

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 98.37 / 99
p0 −505.5 ± 1946
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −83.37
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 100
Mean −0.01595
Std Dev 0.9917
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 1.002e+04 / 99
p0 1905 ± 1.376
2200
2100
2000
1900
1800
1700


asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 107.4 / 99
p0 1.266e+04 ± 5681
200
100
0
−100
−200
pull
Entries 100
Mean −75.65
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.02515
Std Dev 1.036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 4.079e+04 / 99
p0 5514 ± 4.017
6500
6000
5500
5000
4500


asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 111.4 / 99
p0 −1.288e+04 ± 5999
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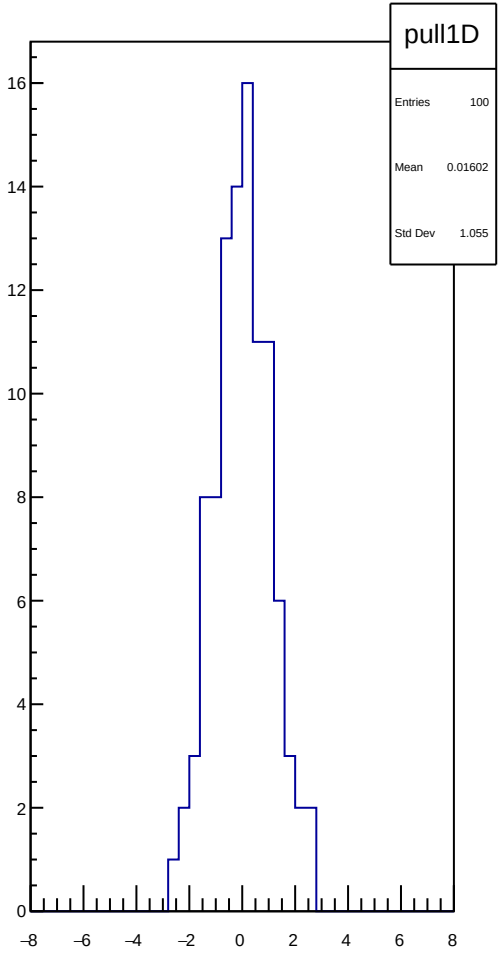
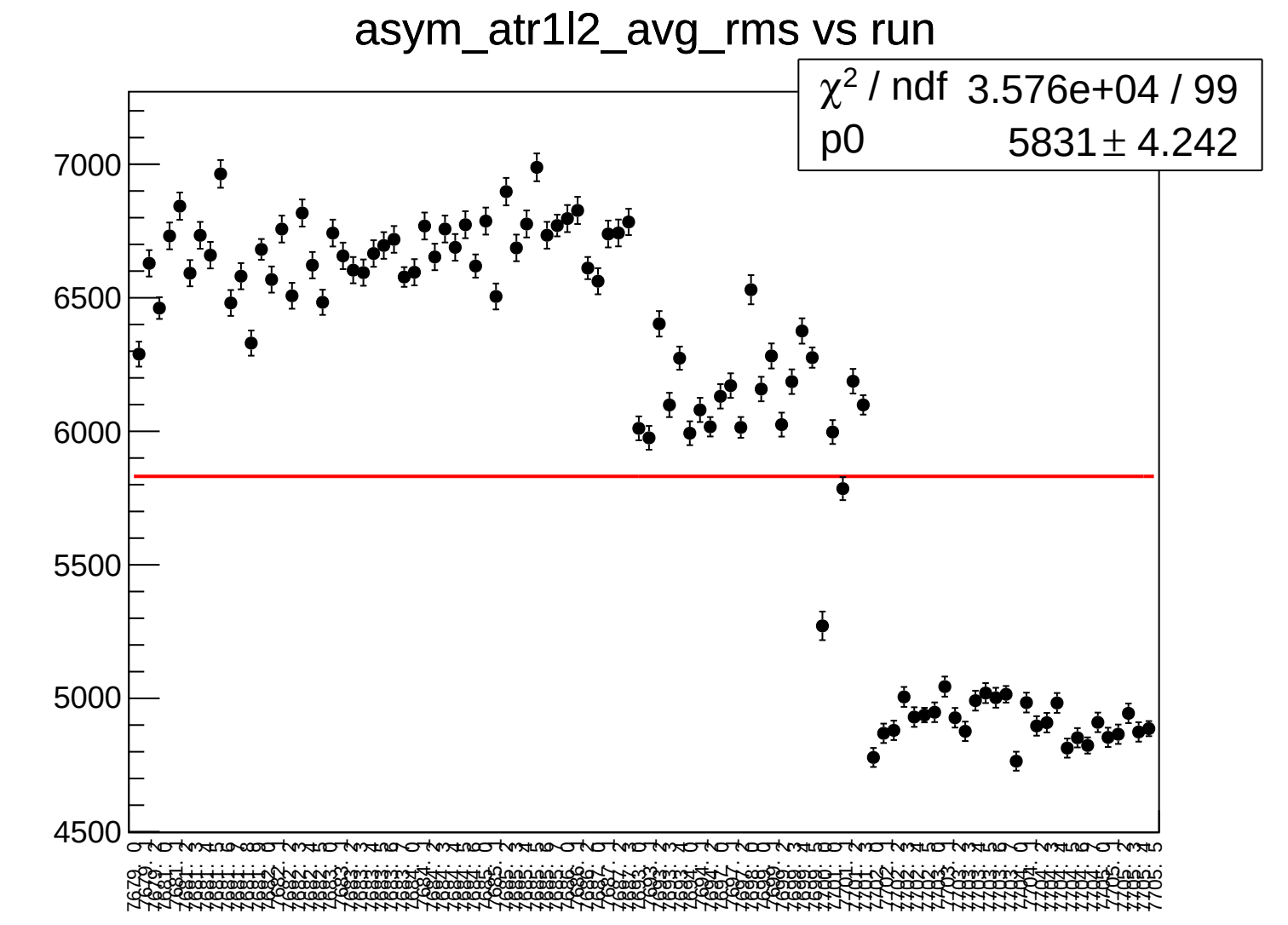
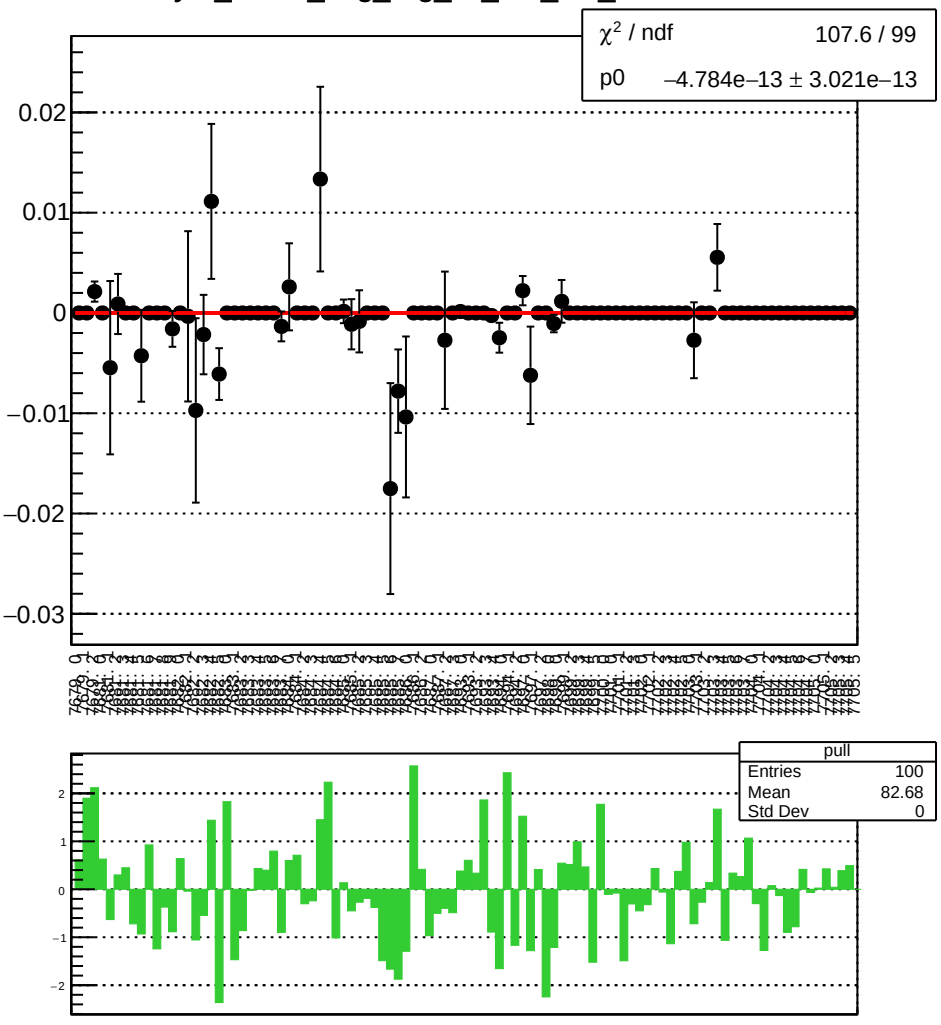
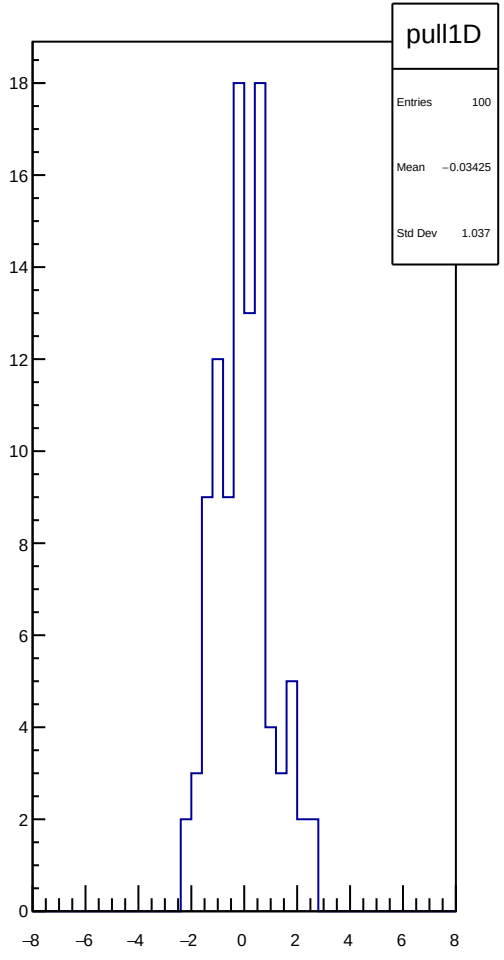
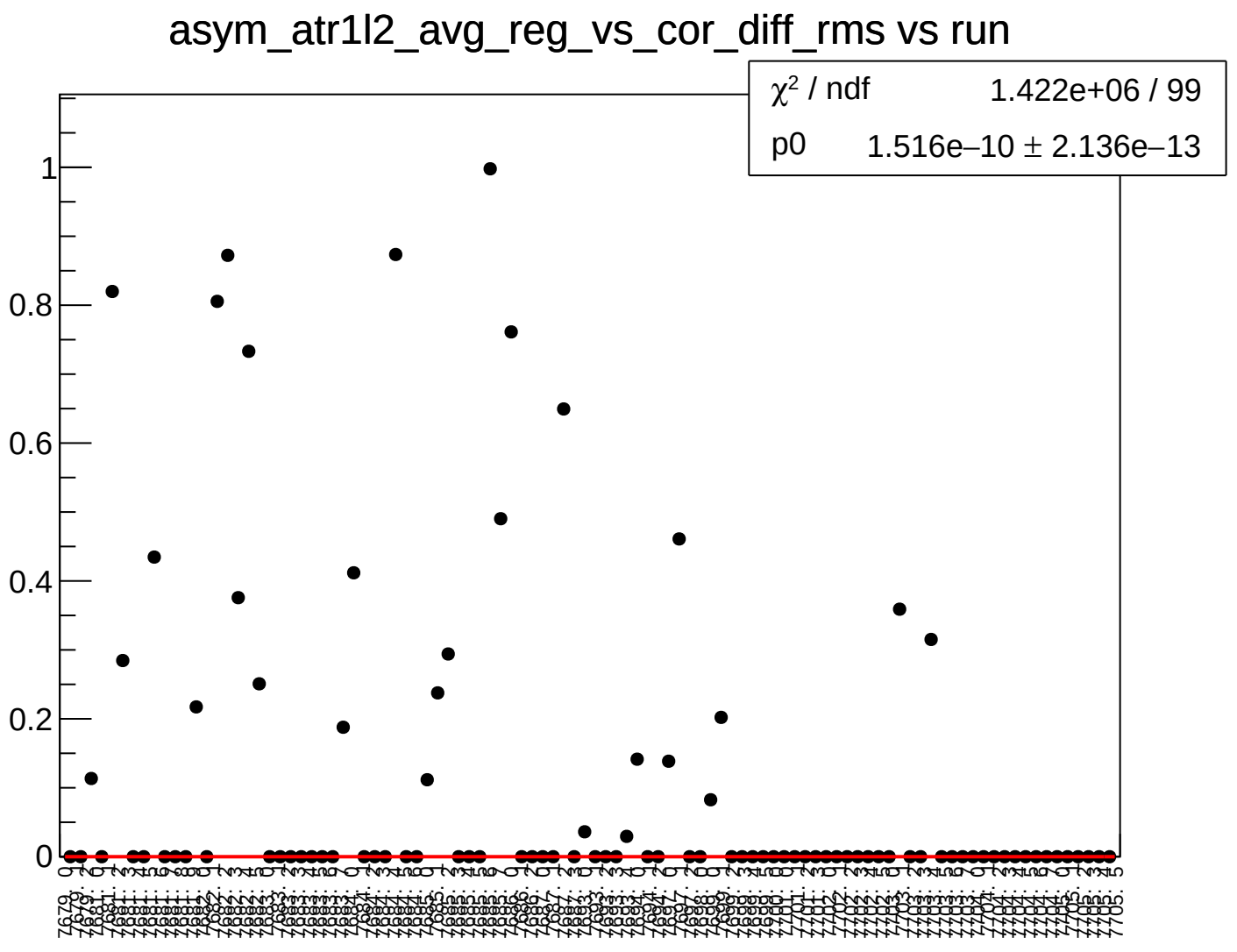
100
0
−100
−200
pull
Entries 100
Mean −89.72
Std Dev 0
2
1
0
−1
−2

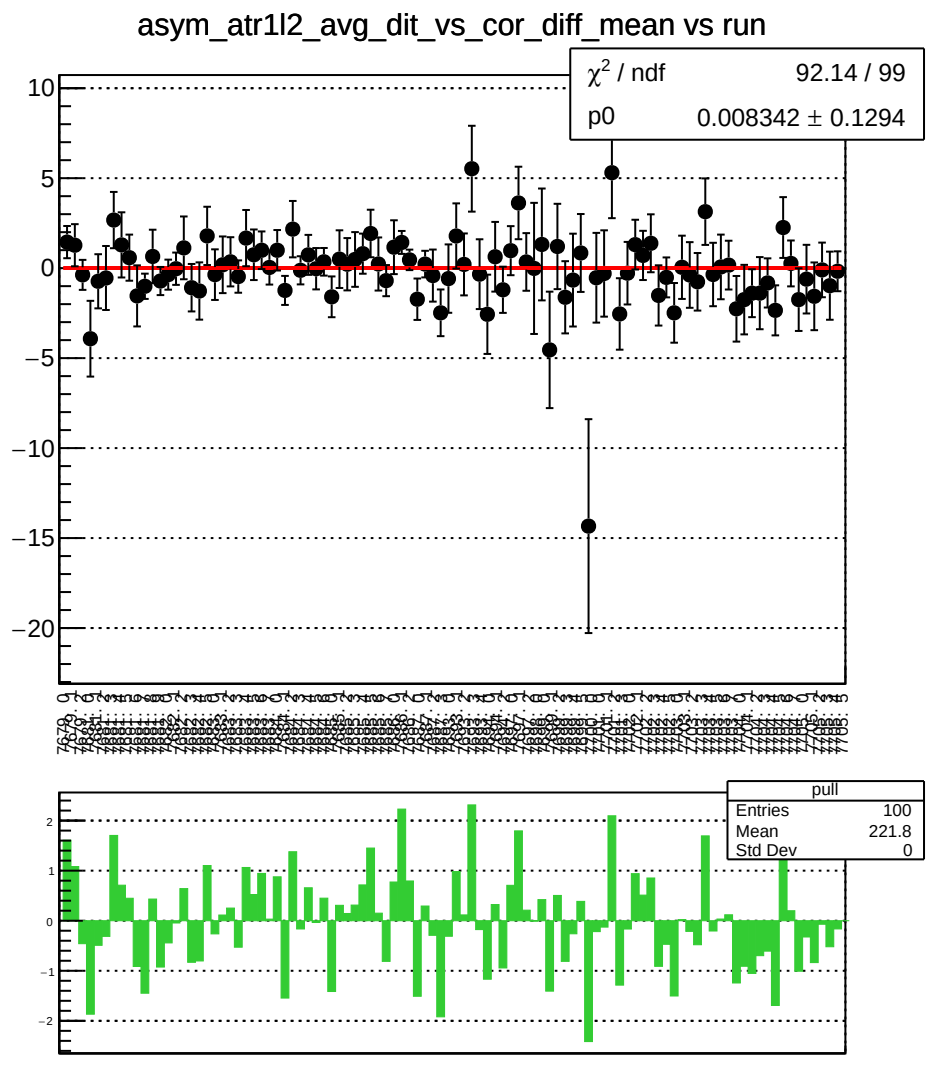

pull1D
Entries 100
Mean 0.01602
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

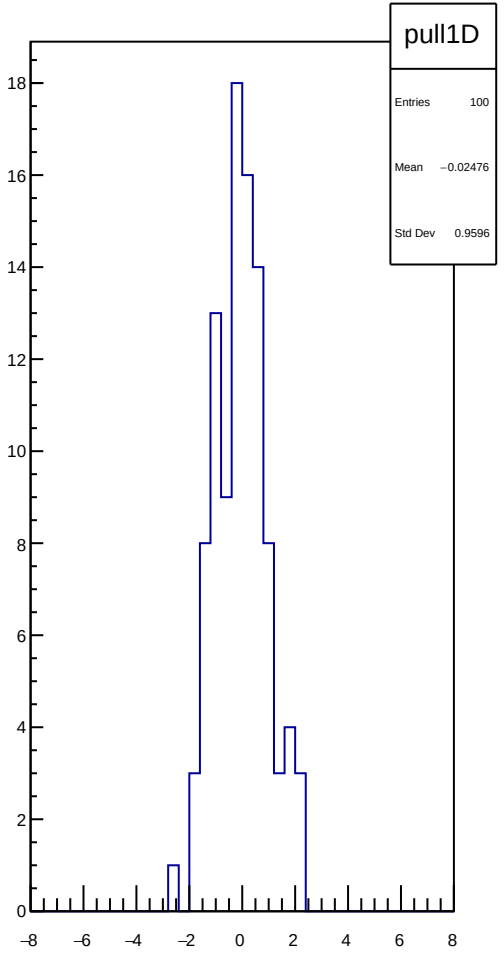

asym_atr1l2_avg_rms vs run
χ² / ndf 3.576e+04 / 99
p0 5831 ± 4.242
7000
6500
6000
5500
5000
4500

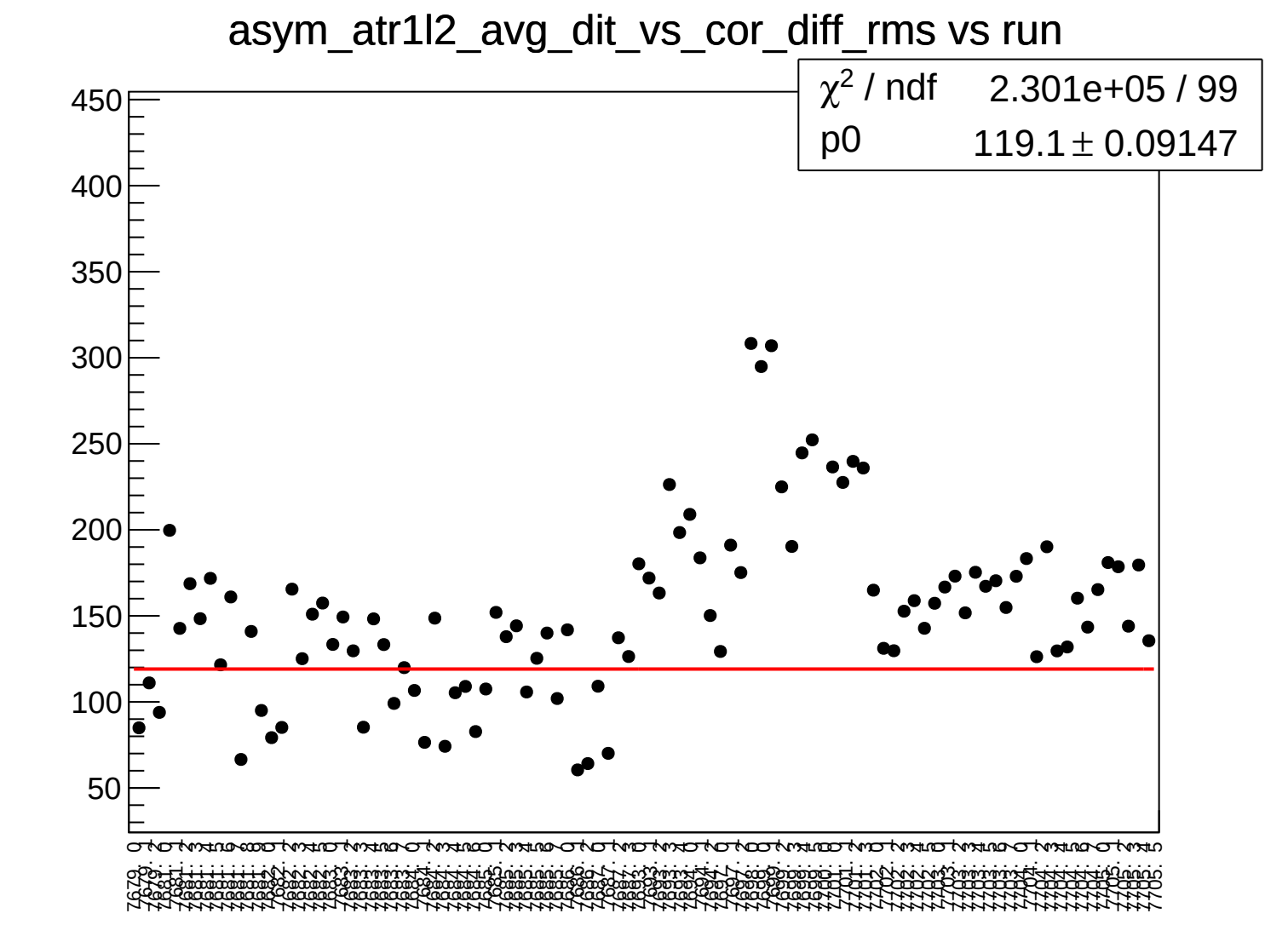

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 107.6 / 99
p0 −4.784e−13 ± 3.021e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 100
Mean 82.68
Std Dev 0
2
1
0
−1
−2

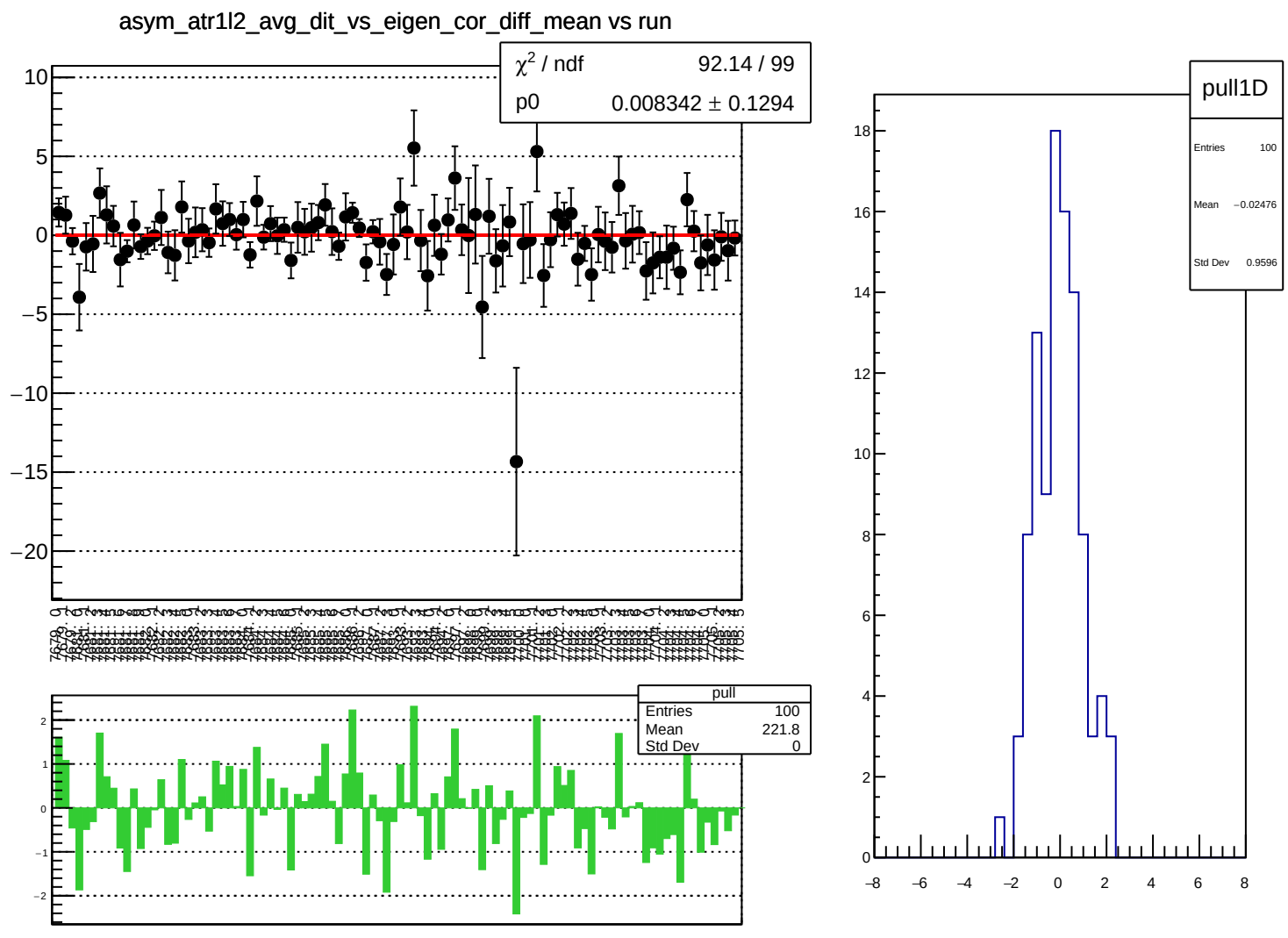

pull1D
Entries 100
Mean −0.03425
Std Dev 1.037
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

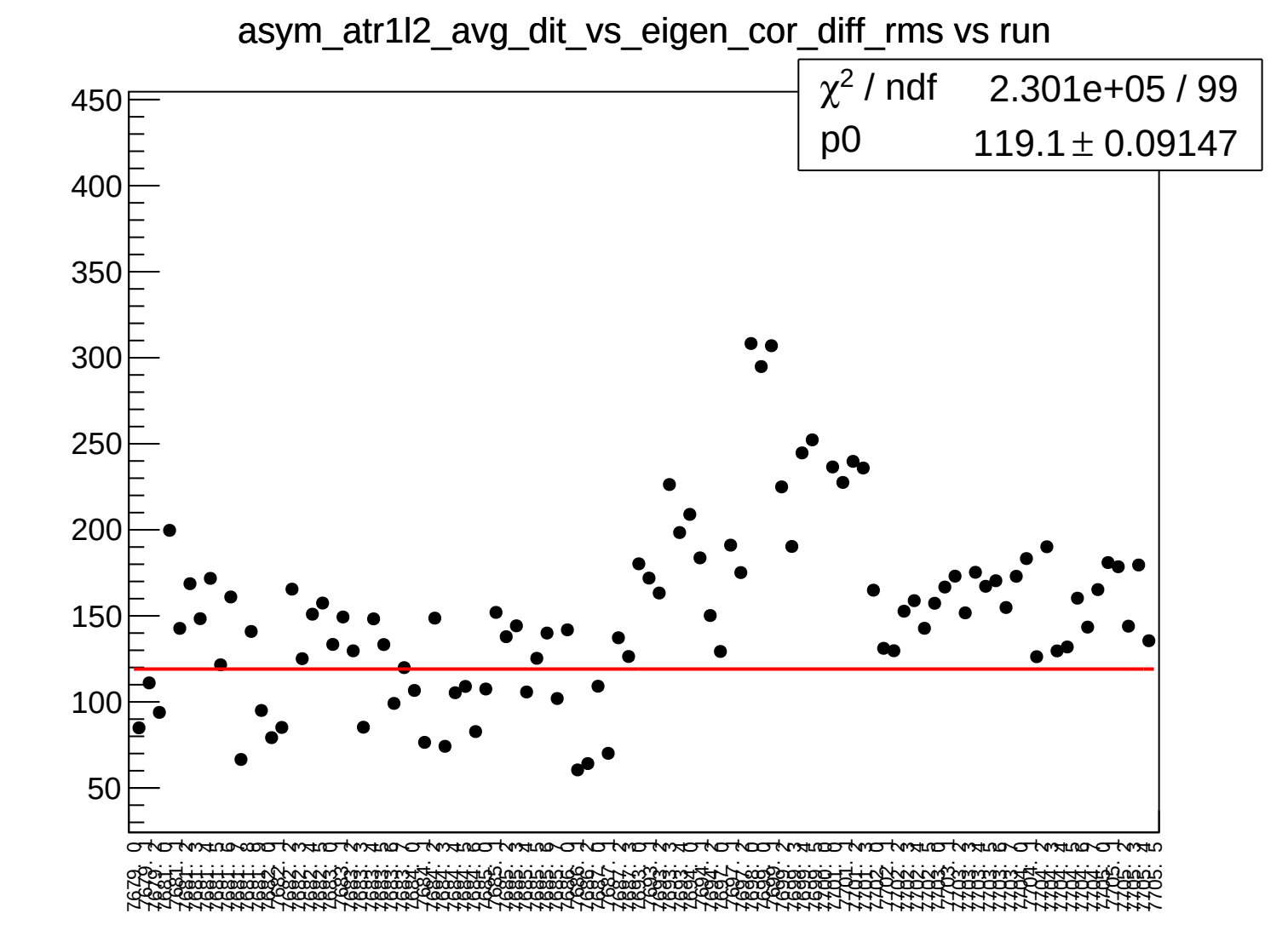

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.422e+06 / 99
p0 1.516e−10 ± 2.136e−13
1
0.8
0.6
0.4
0.2
0

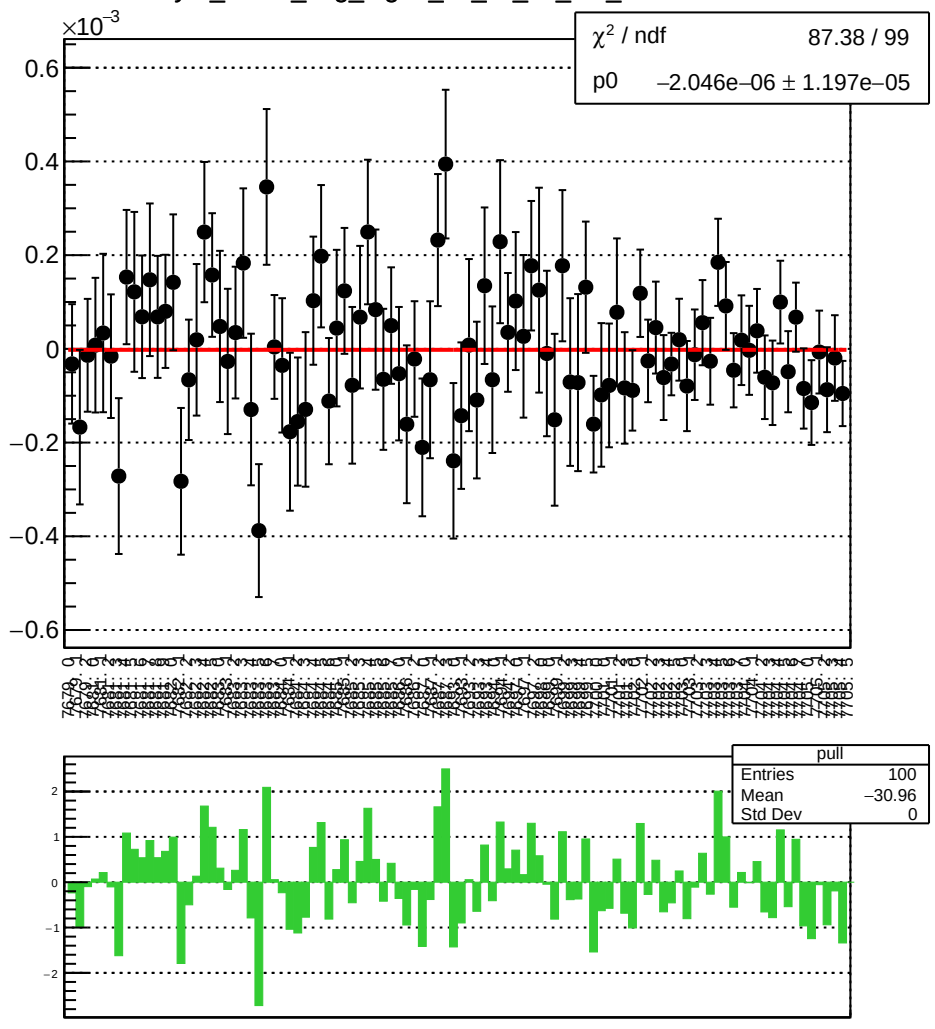

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.14 / 99
p0 0.008342 ± 0.1294
pull
Entries 100
Mean 221.8
Std Dev 0

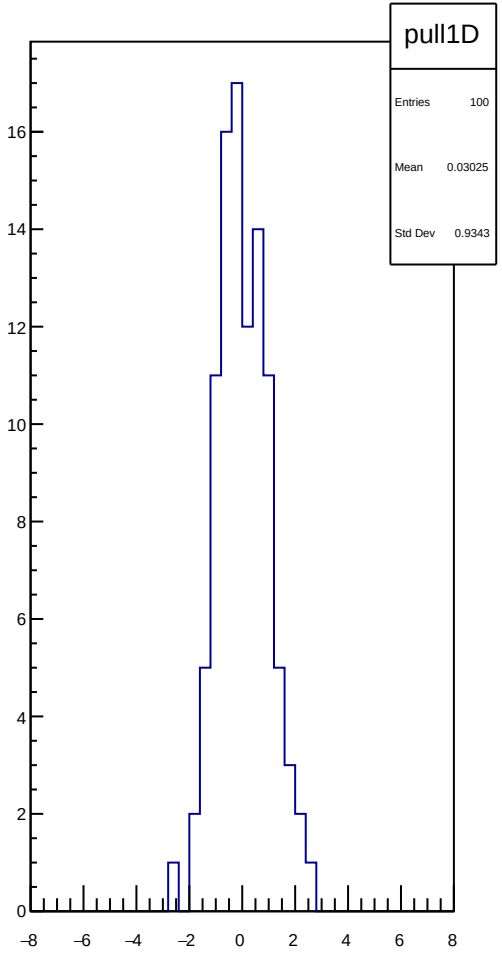

pull1D
Entries 100
Mean −0.02476
Std Dev 0.9596

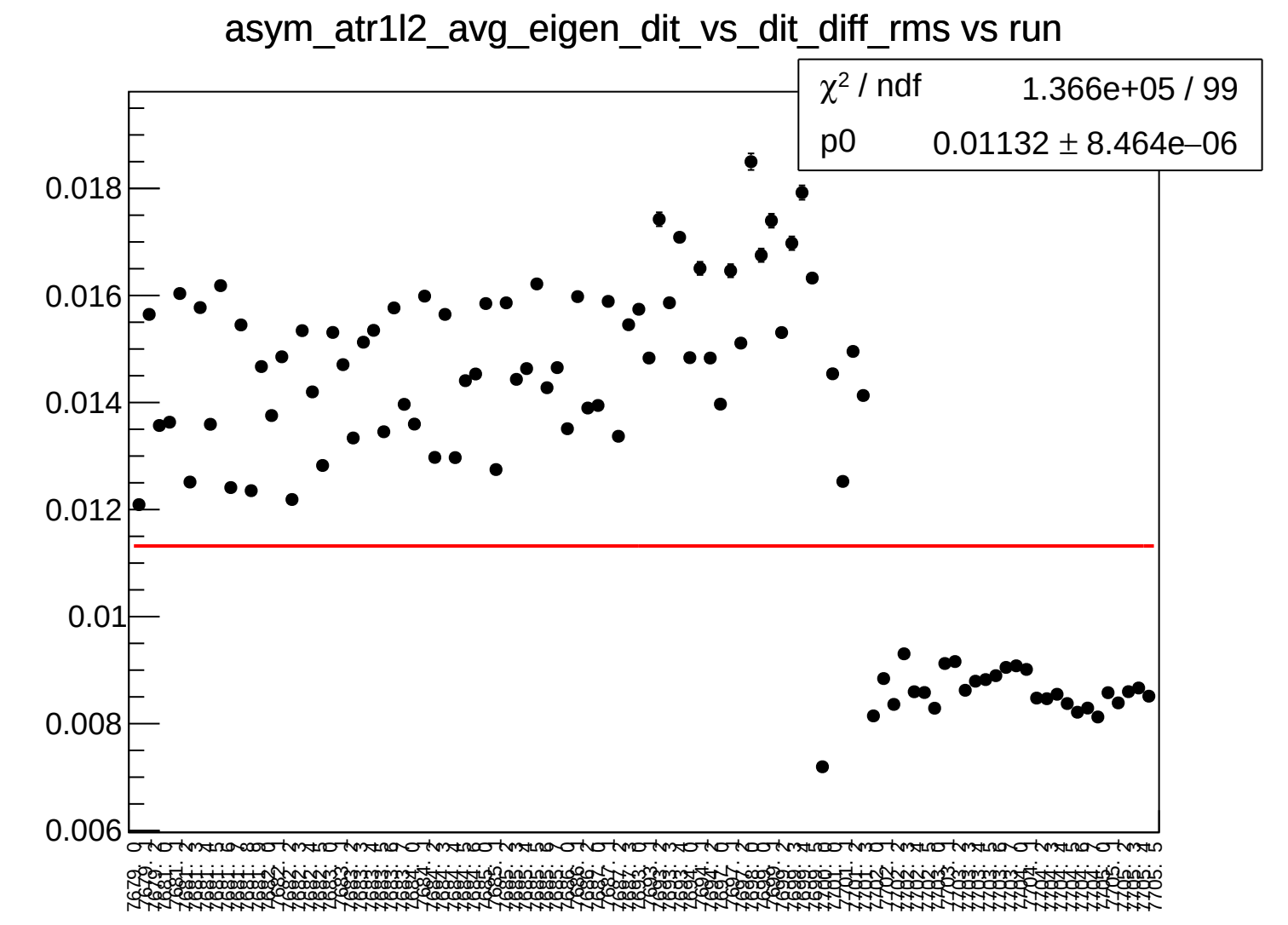

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.301e+05 / 99
p0 119.1 ± 0.09147
450
400
350
300
250
200
150
100
50

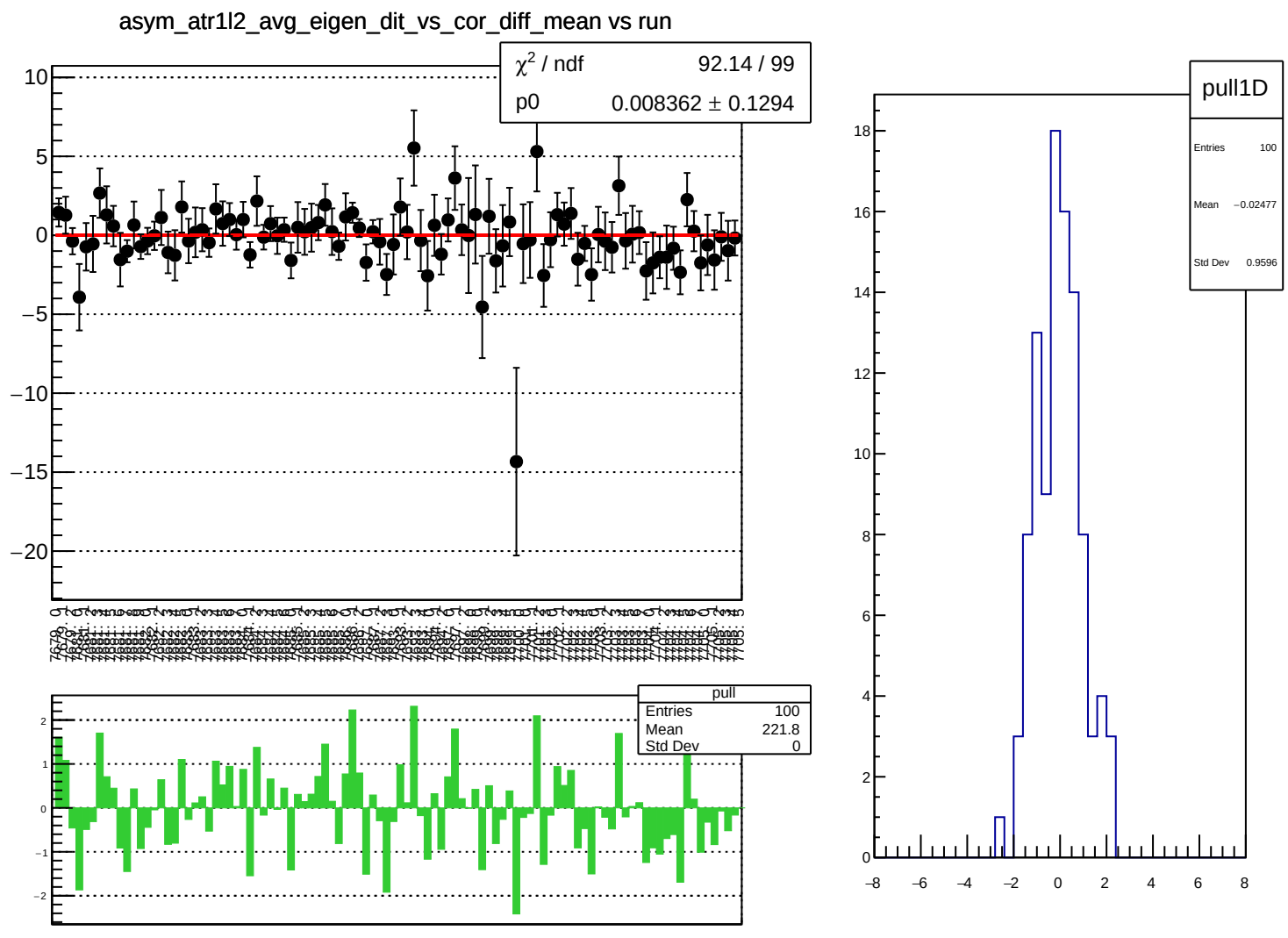

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.14 / 99
p0 0.008342 ± 0.1294
pull
Entries 100
Mean 221.8
Std Dev 0
pull1D
Entries 100
Mean −0.02476
Std Dev 0.9596

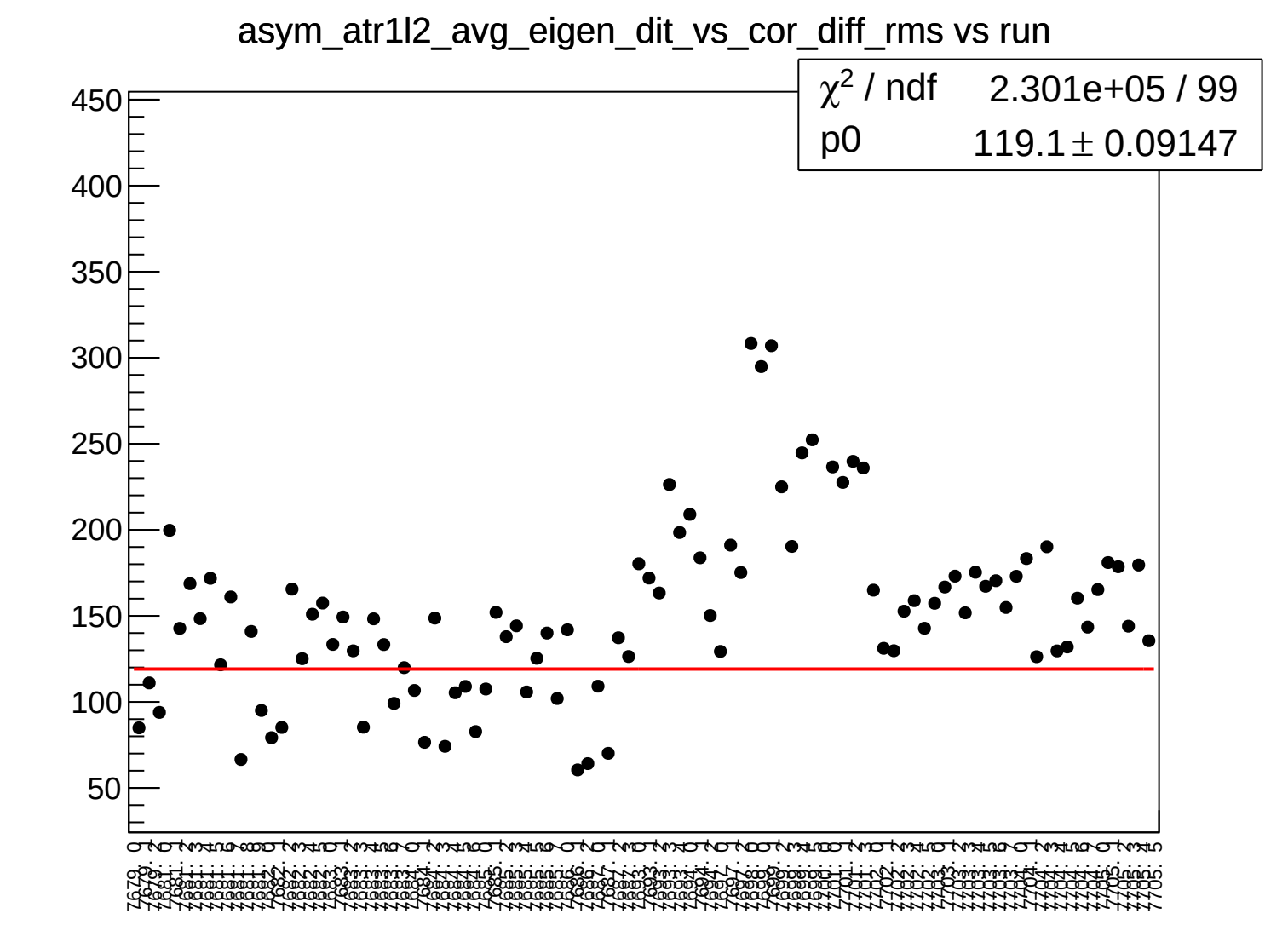

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.301e+05 / 99
p0 119.1 ± 0.09147
450
400
350
300
250
200
150
100
50

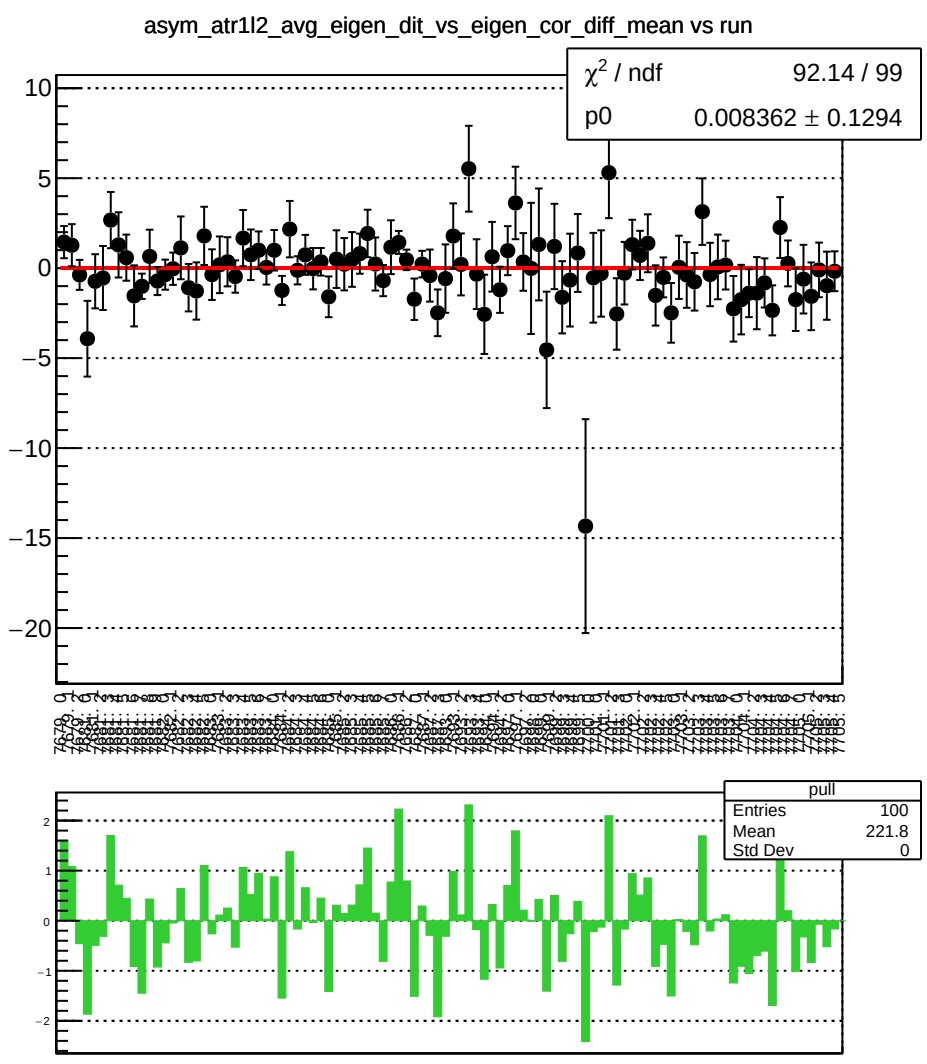

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.38 / 99
p0 −2.046e−06 ± 1.197e−05
pull
Entries 100
Mean −30.96
Std Dev 0

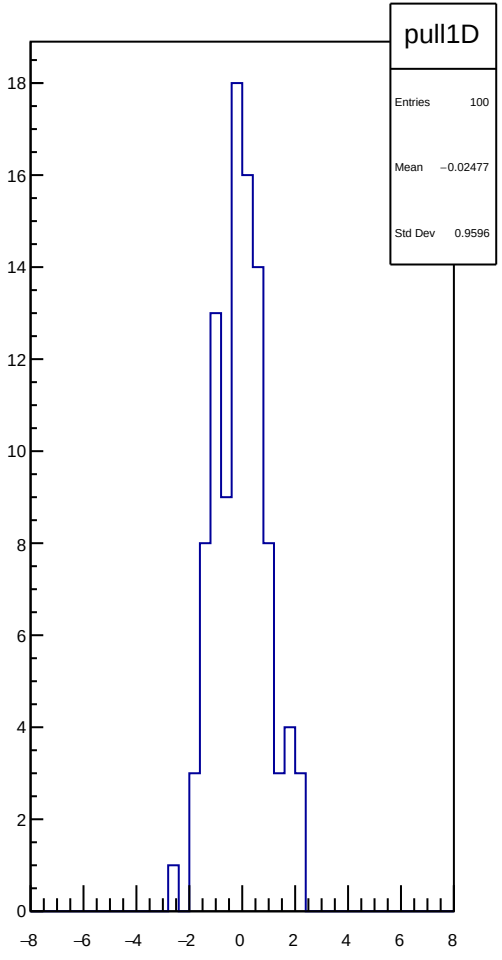

pull1D
Entries 100
Mean 0.03025
Std Dev 0.9343

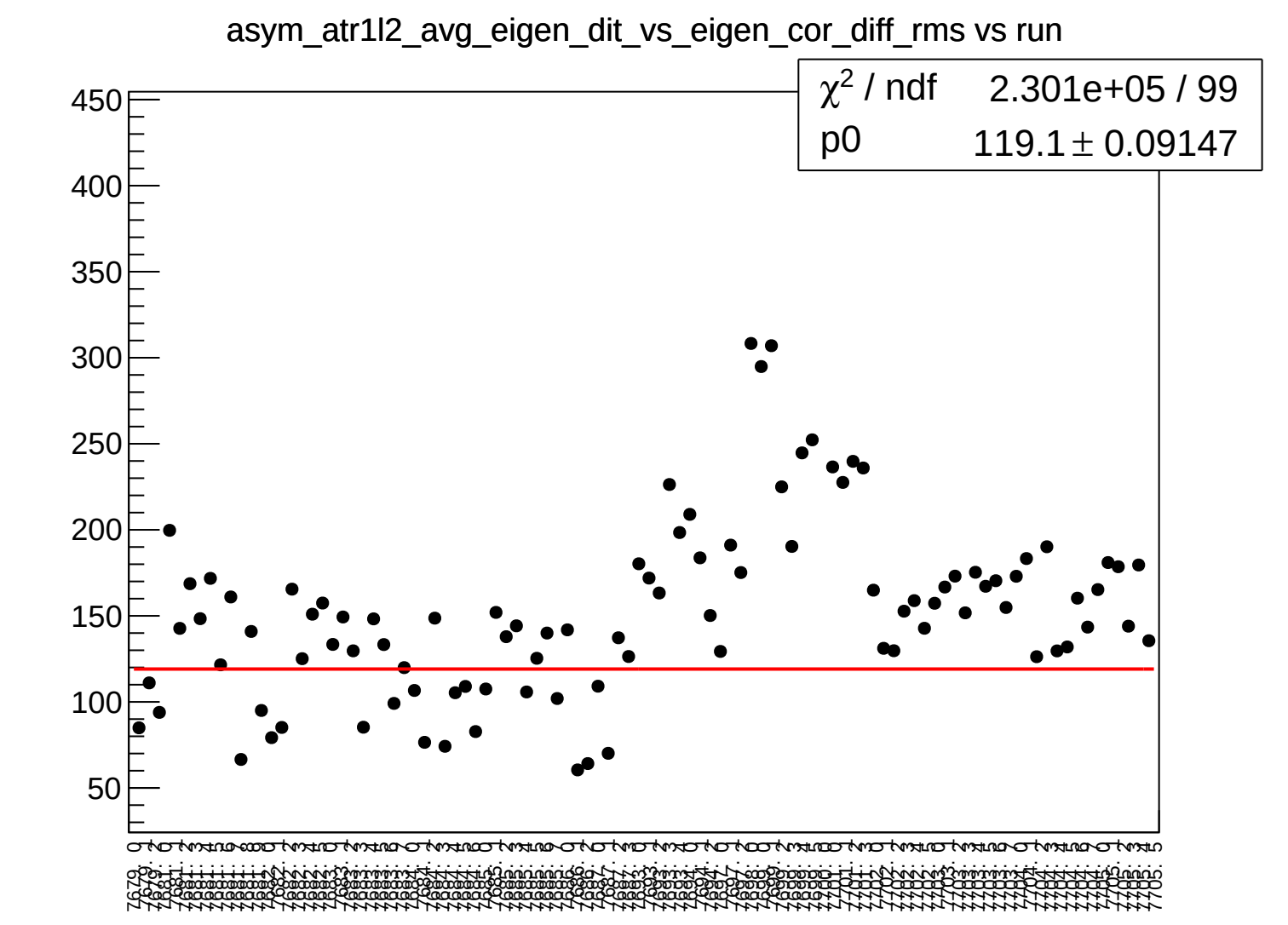

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.366e+05 / 99
p0 0.01132 ± 8.464e–06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

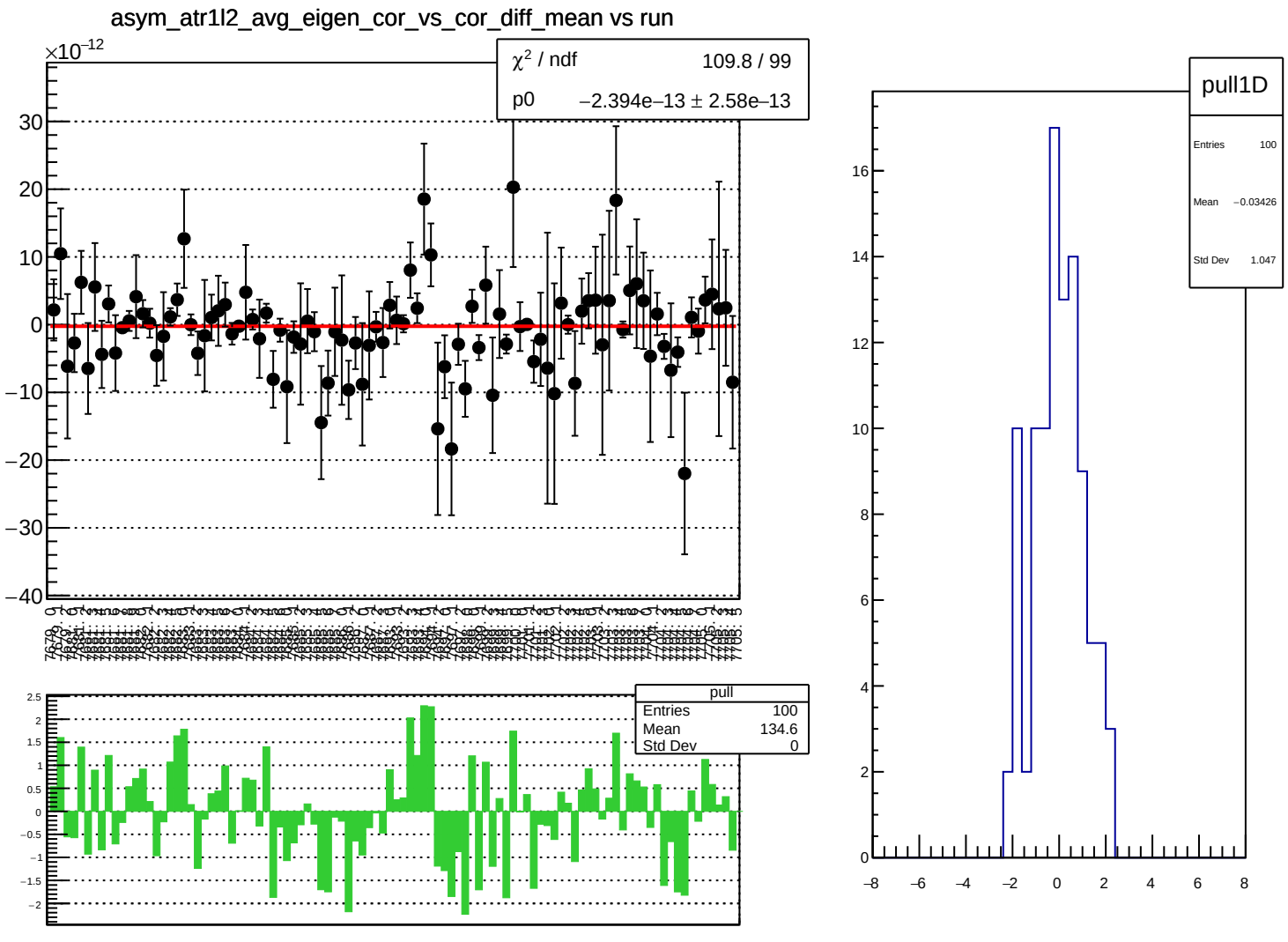

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.14 / 99
p0 0.008362 ± 0.1294
pull
Entries 100
Mean 221.8
Std Dev 0
pull1D
Entries 100
Mean −0.02477
Std Dev 0.9596

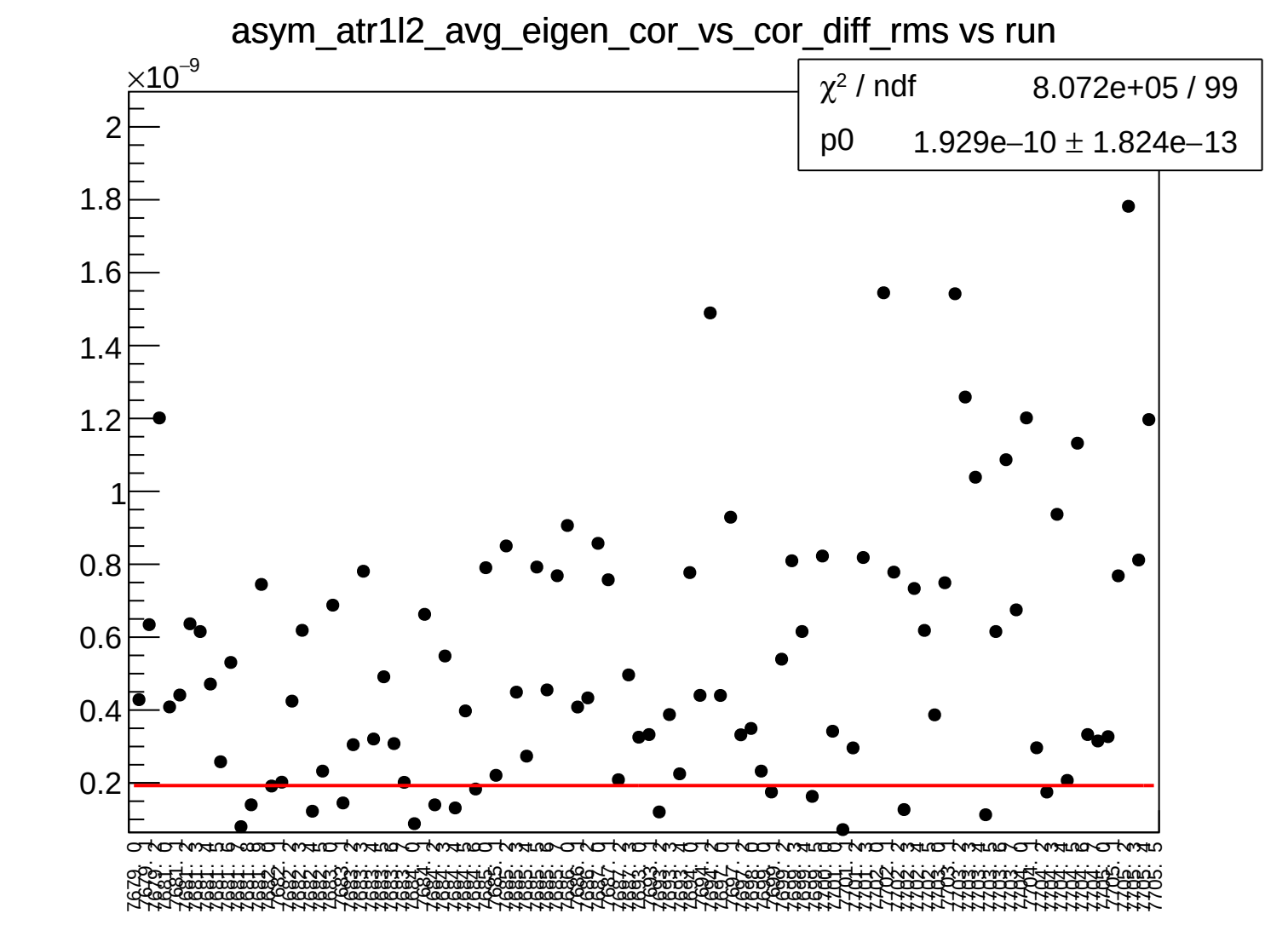

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.301e+05 / 99
p0 119.1 ± 0.09147
450
400
350
300
250
200
150
100
50

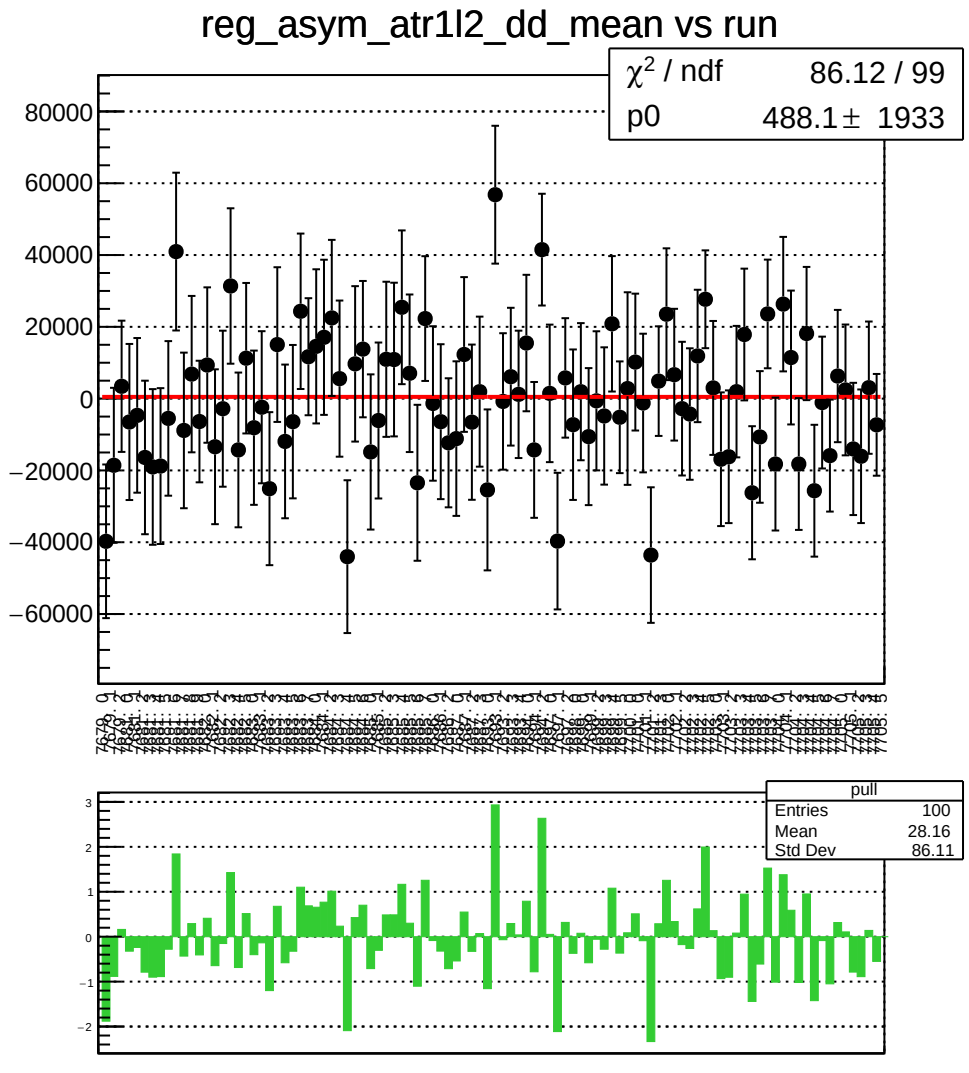

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.14 / 99
p0 0.008362 ± 0.1294
pull
Entries 100
Mean 221.8
Std Dev 0

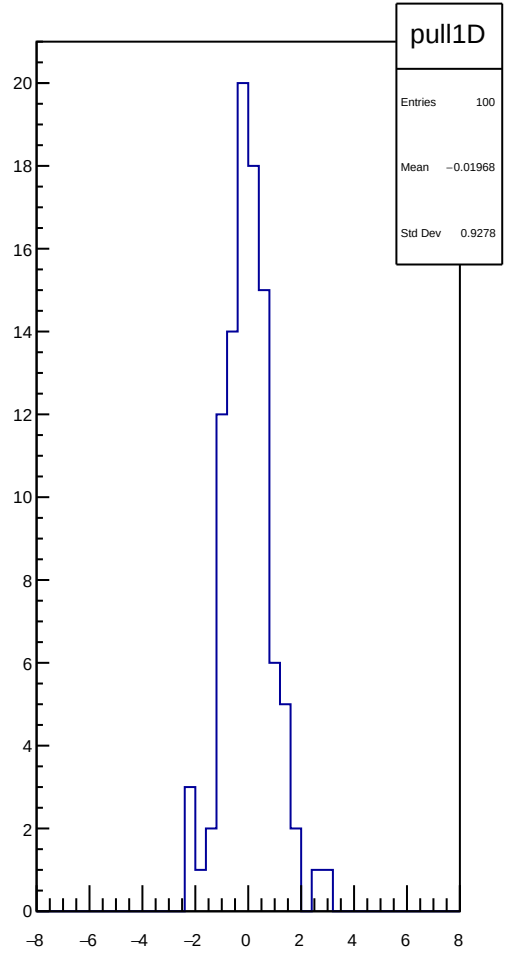

pull1D
Entries 100
Mean −0.02477
Std Dev 0.9596

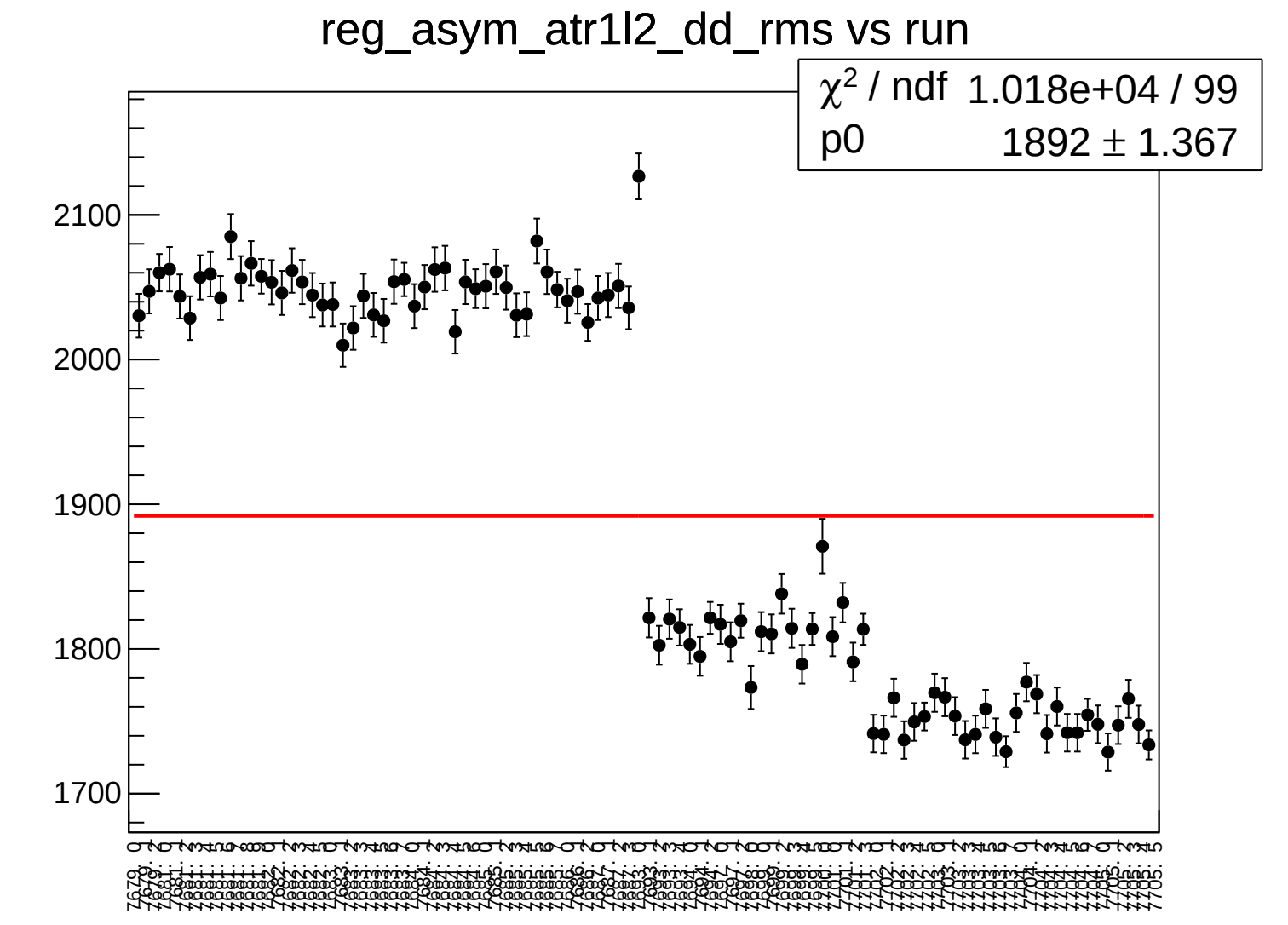

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.301e+05 / 99
p0 119.1 ± 0.09147
450
400
350
300
250
200
150
100
50

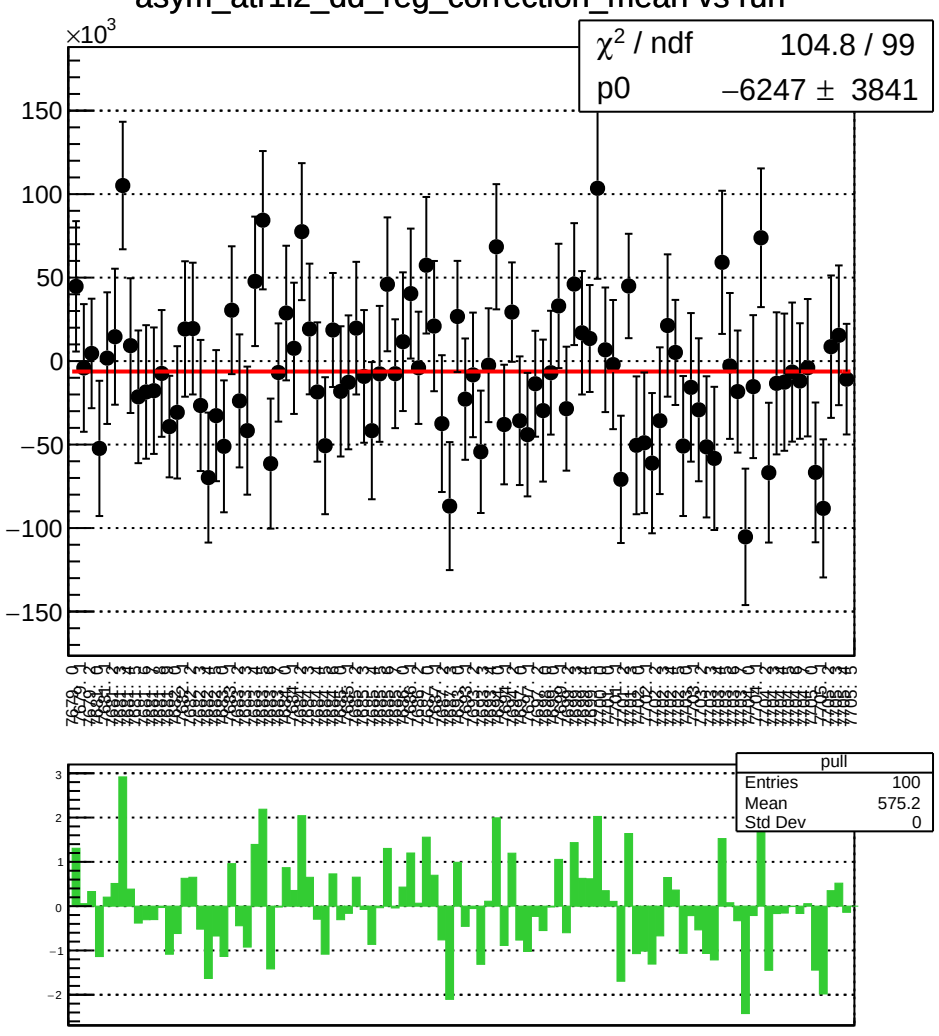

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 109.8 / 99
p0 −2.394e−13 ± 2.58e−13
pull
Entries 100
Mean 134.6
Std Dev 0
pull1D
Entries 100
Mean −0.03426
Std Dev 1.047

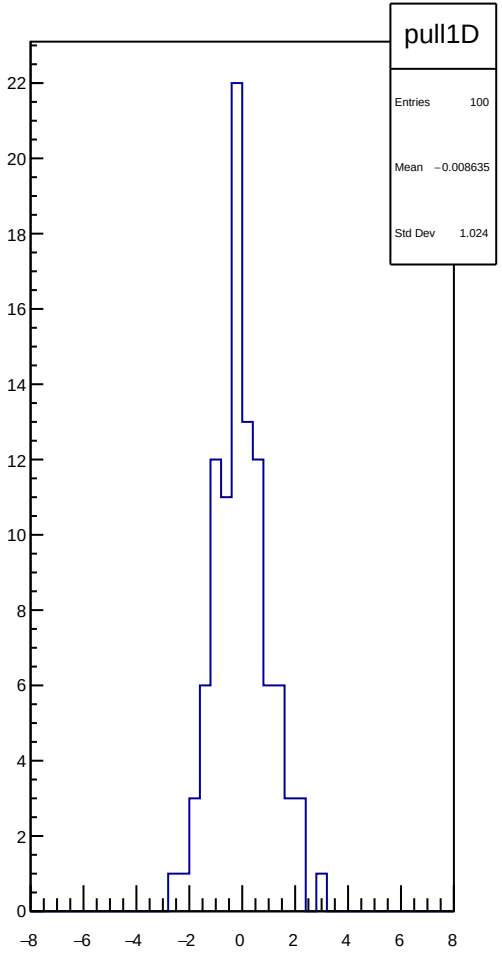

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.072e+05 / 99
p0 1.929e−10 ± 1.824e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

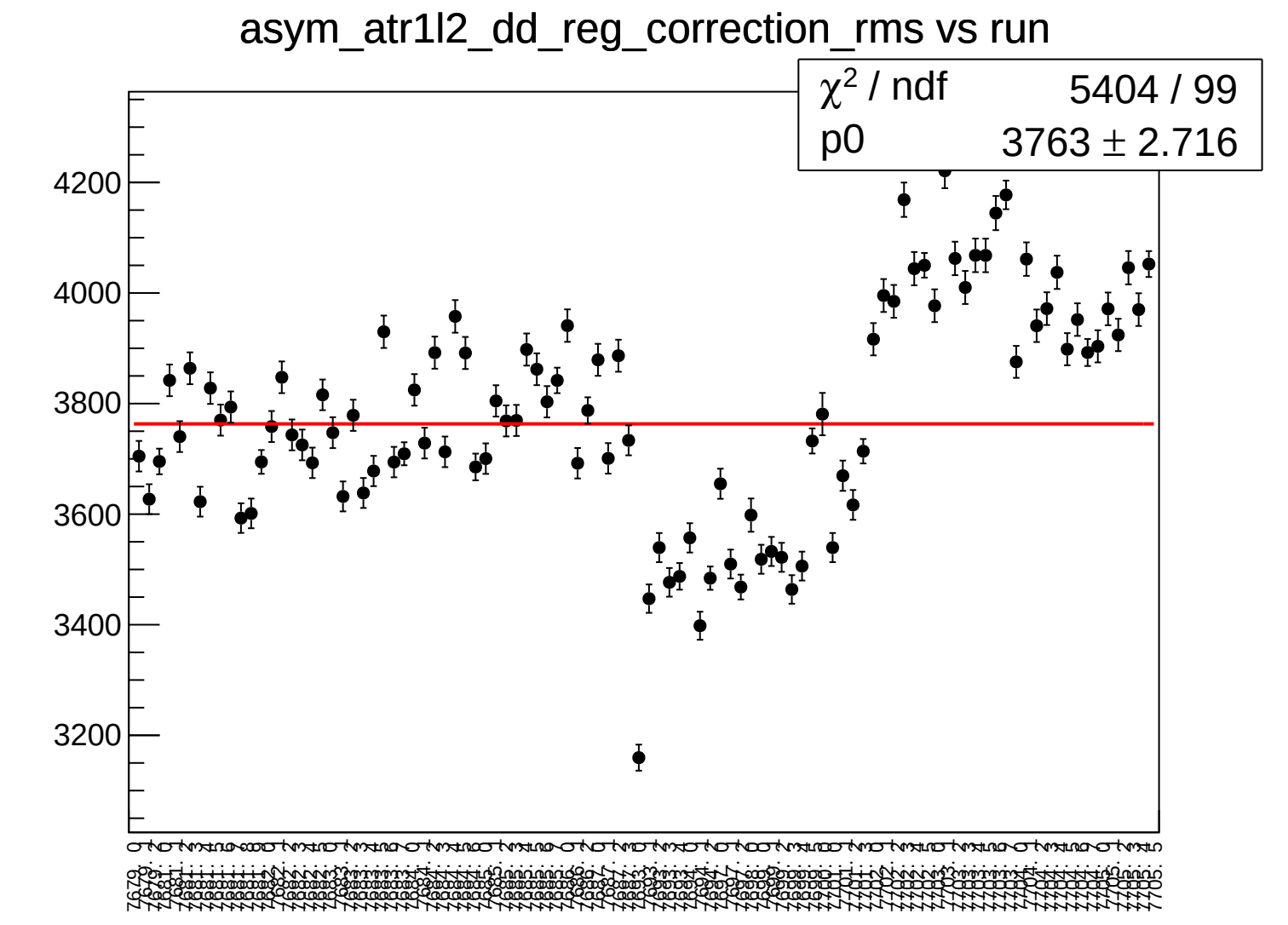

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 86.12 / 99
p0 488.1 ± 1933
pull
Entries 100
Mean 28.16
Std Dev 86.11

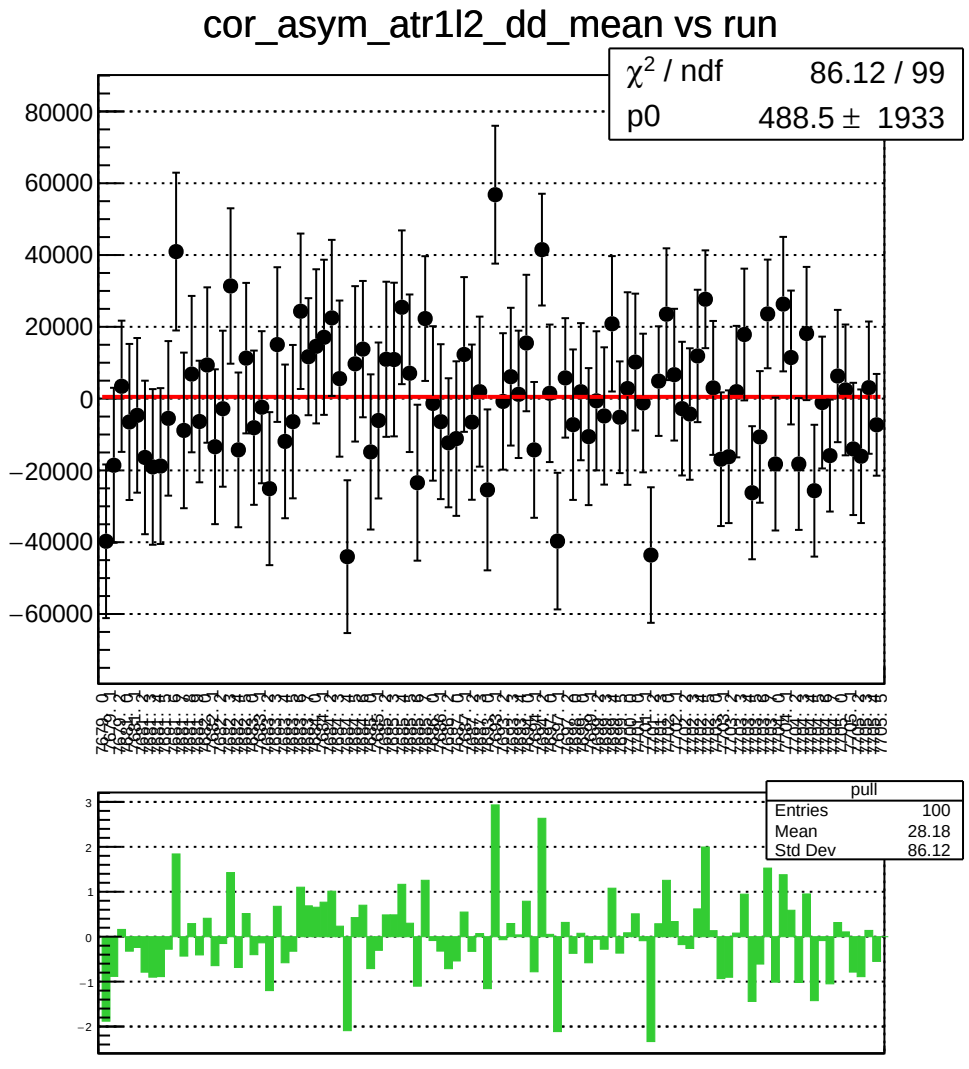

pull1D
Entries 100
Mean −0.01968
Std Dev 0.9278

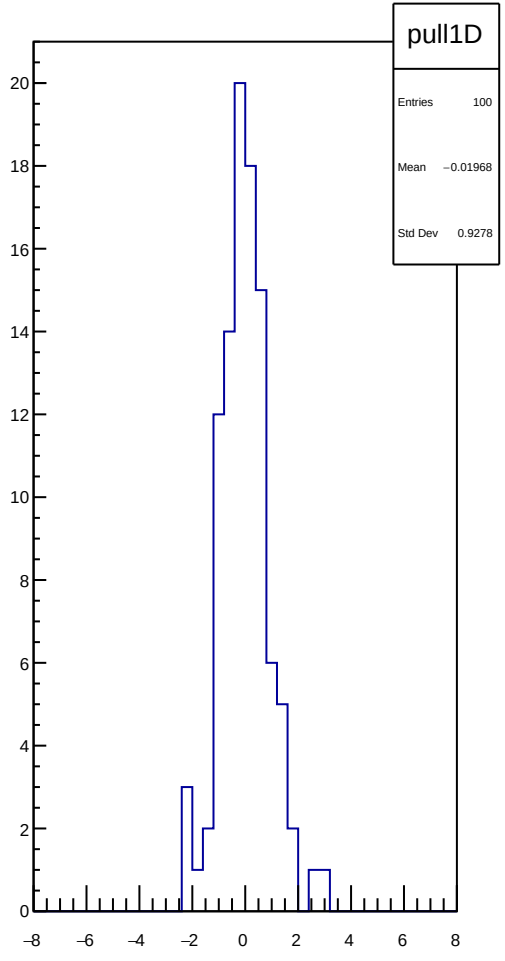

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 1.018e+04 / 99
p0 1892 ± 1.367
2100
2000
1900
1800
1700

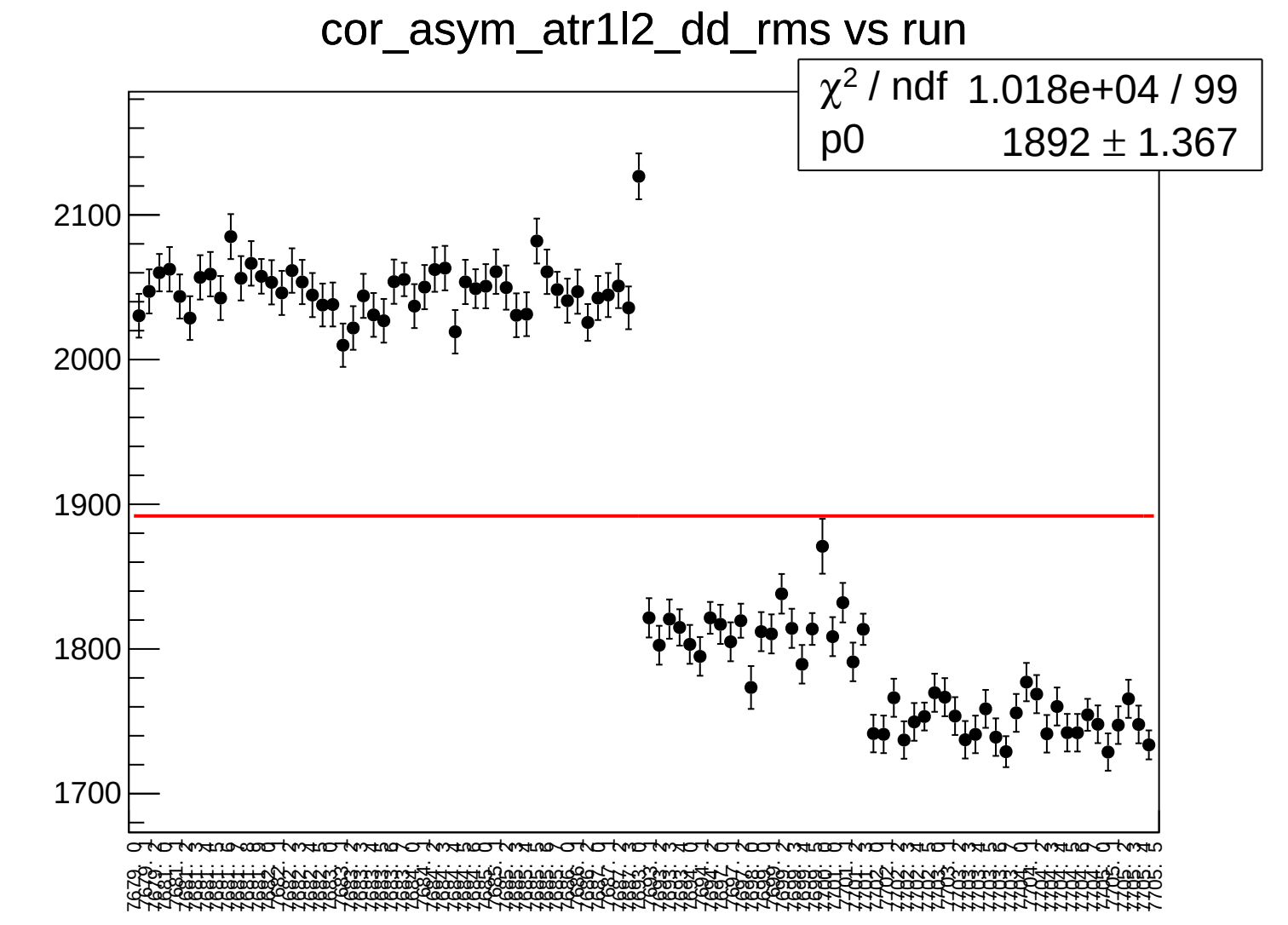

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 104.8 / 99
p0 −6247 ± 3841
150
100
50
0
−50
−100
−150
pull
Entries 100
Mean 575.2
Std Dev 0
3
2
1
0
−1
−2

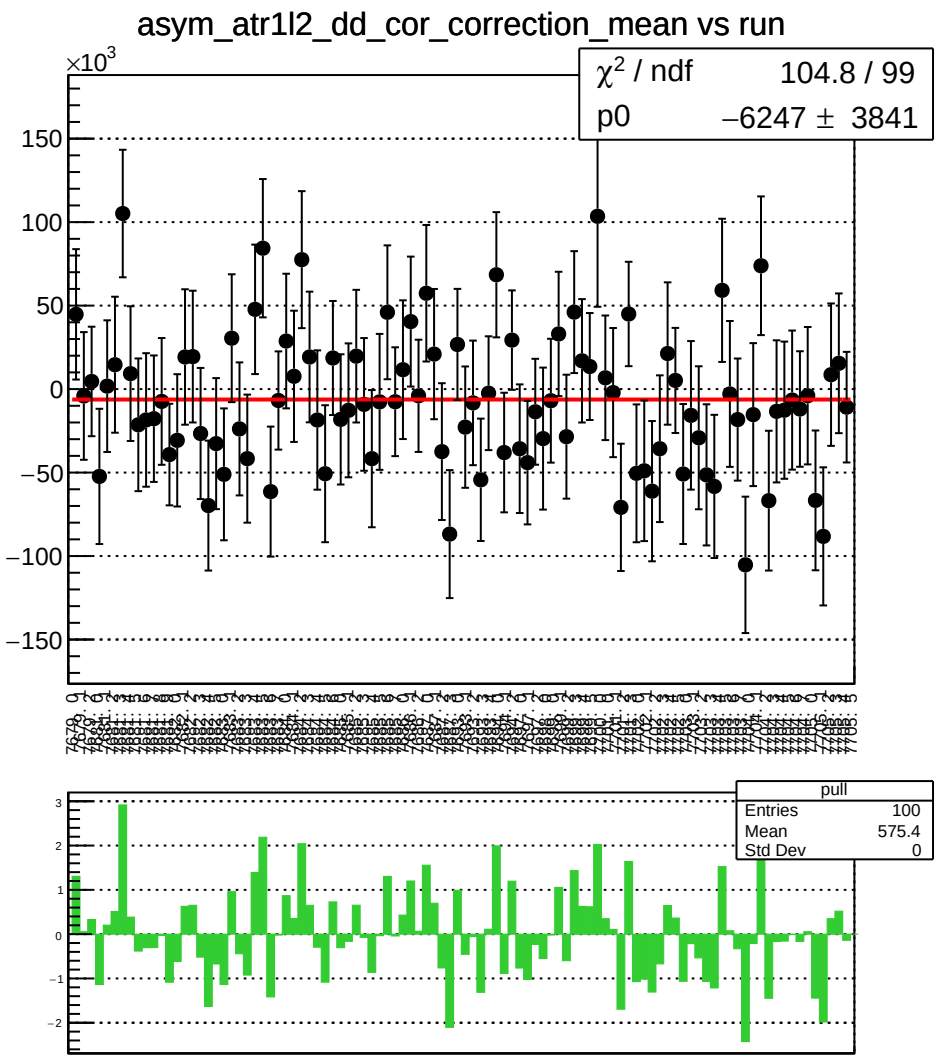

pull1D
Entries 100
Mean −0.008635
Std Dev 1.024
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

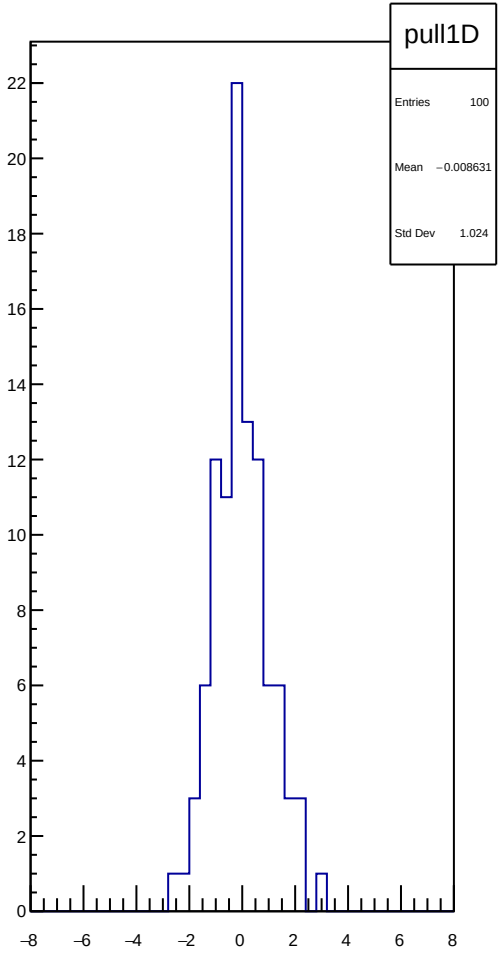

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 5404 / 99
p0 3763 ± 2.716
4200
4000
3800
3600
3400
3200

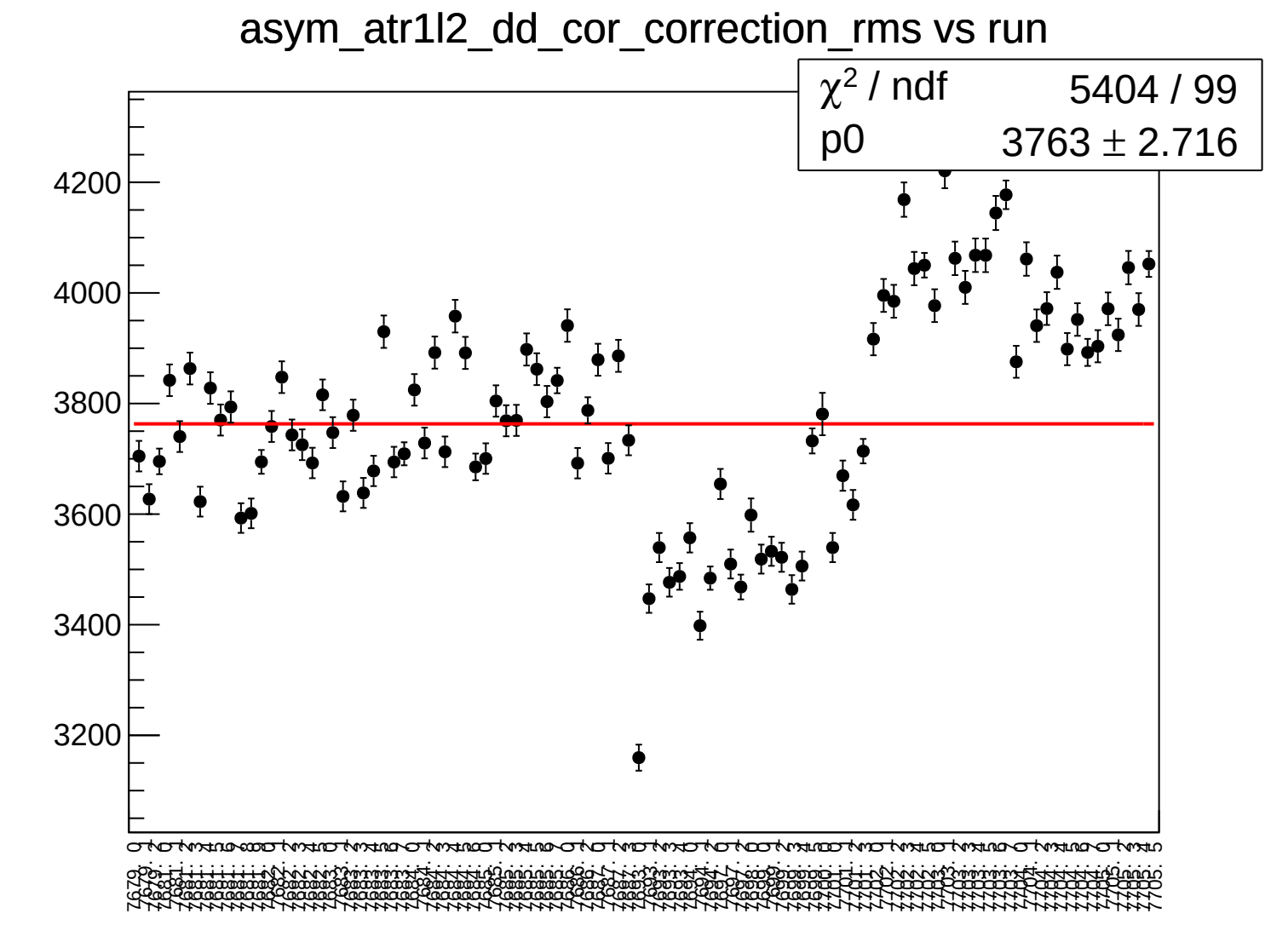

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 86.12 / 99
p0 488.5 ± 1933
pull
Entries 100
Mean 28.18
Std Dev 86.12

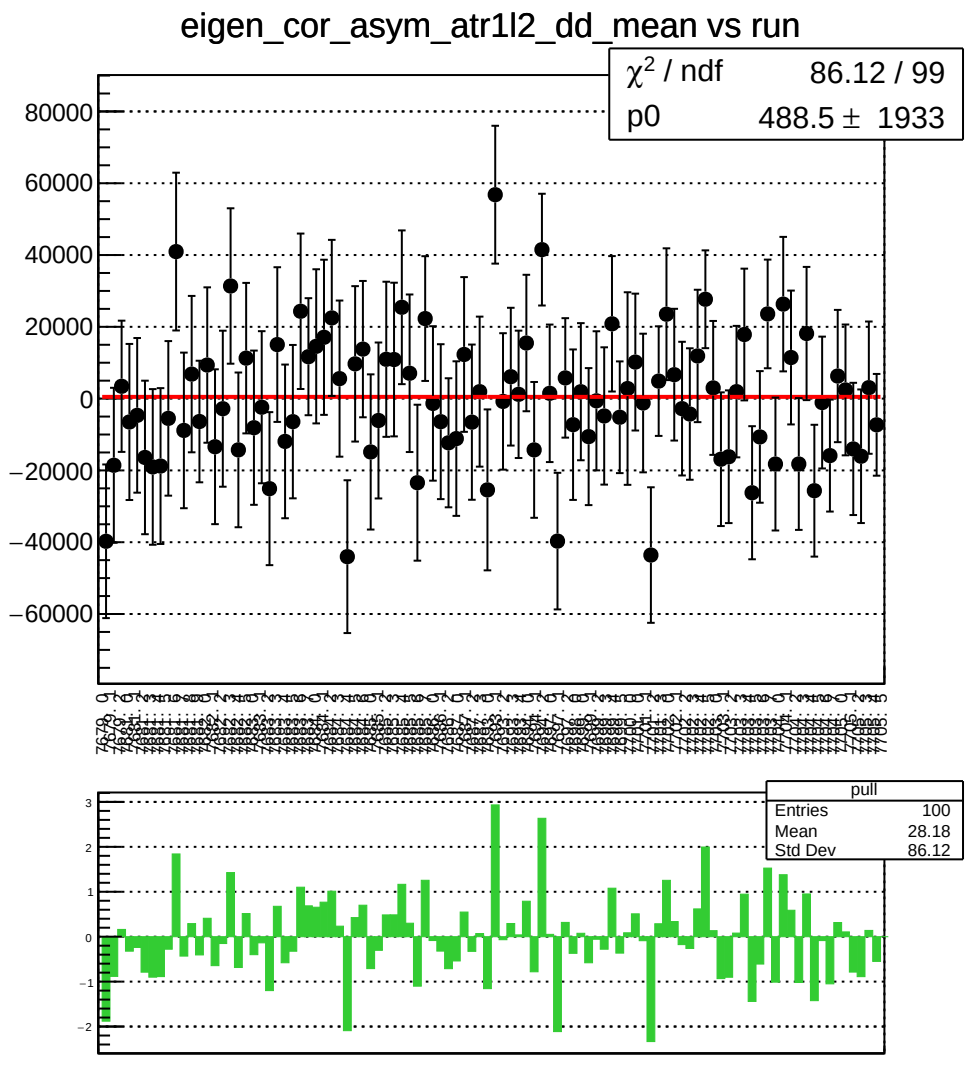

pull1D
Entries 100
Mean −0.01968
Std Dev 0.9278

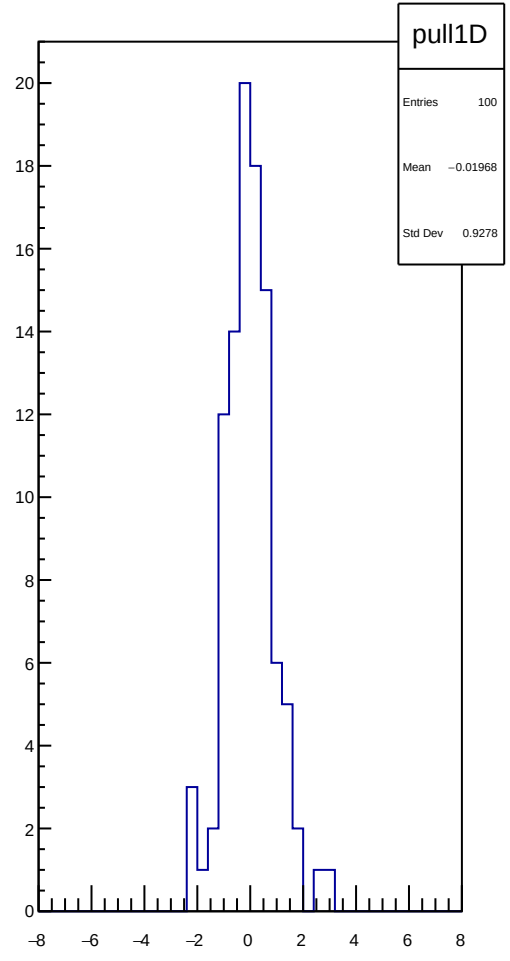

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 1.018e+04 / 99
p0 1892 ± 1.367
2100
2000
1900
1800
1700

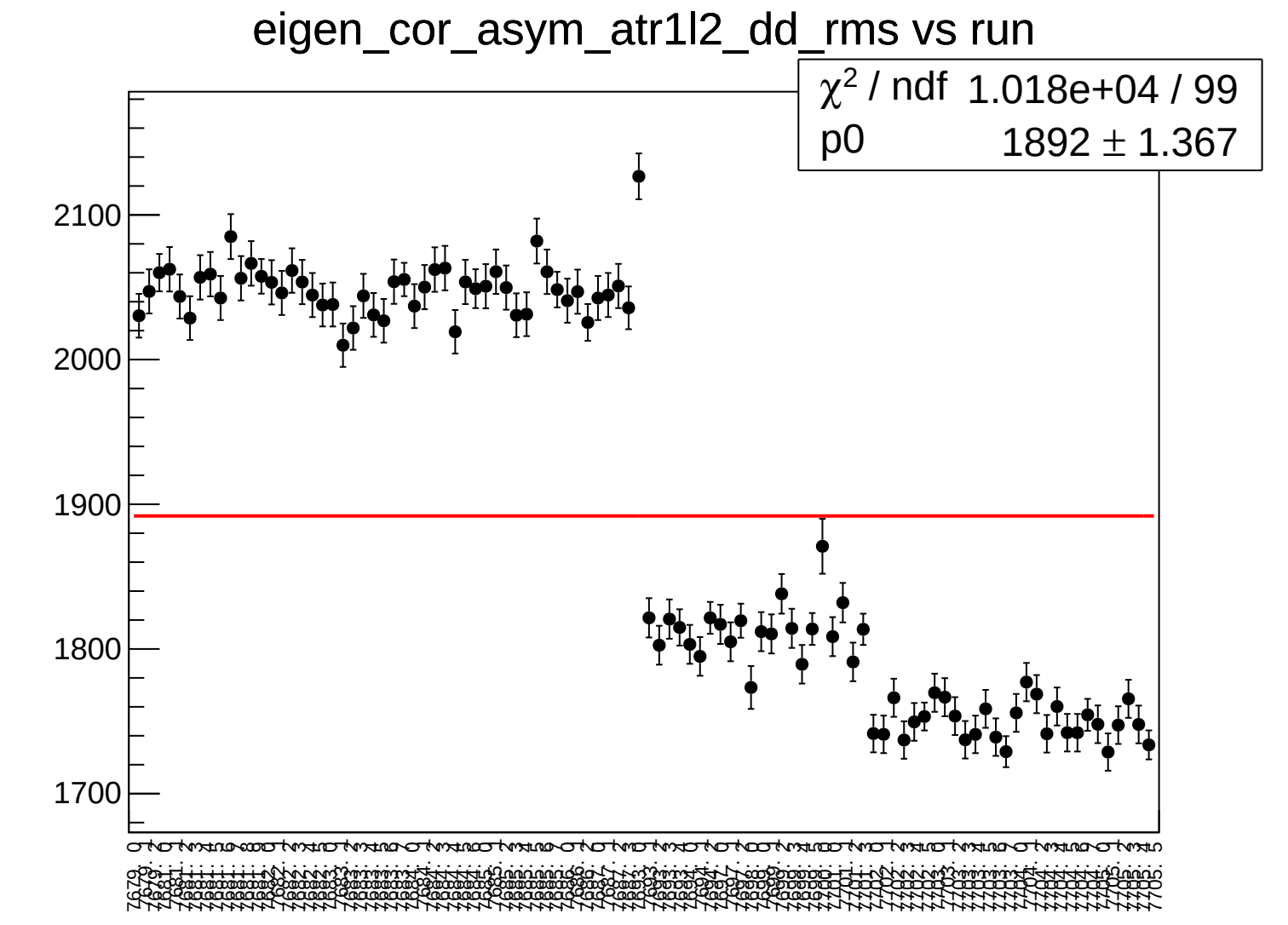

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 104.8 / 99
p0 −6247 ± 3841
150
100
50
0
−50
−100
−150
pull
Entries 100
Mean 575.4
Std Dev 0
3
2
1
0
−1
−2

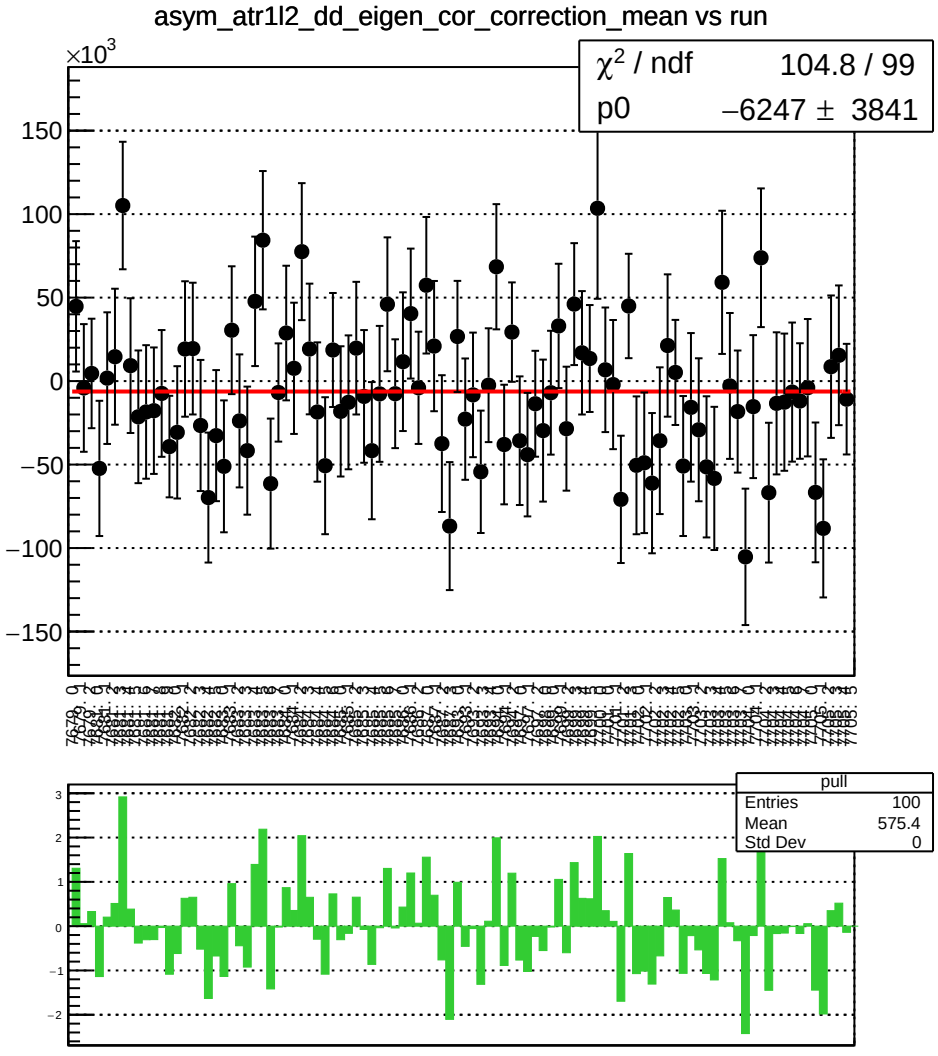

pull1D
Entries 100
Mean −0.008631
Std Dev 1.024
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

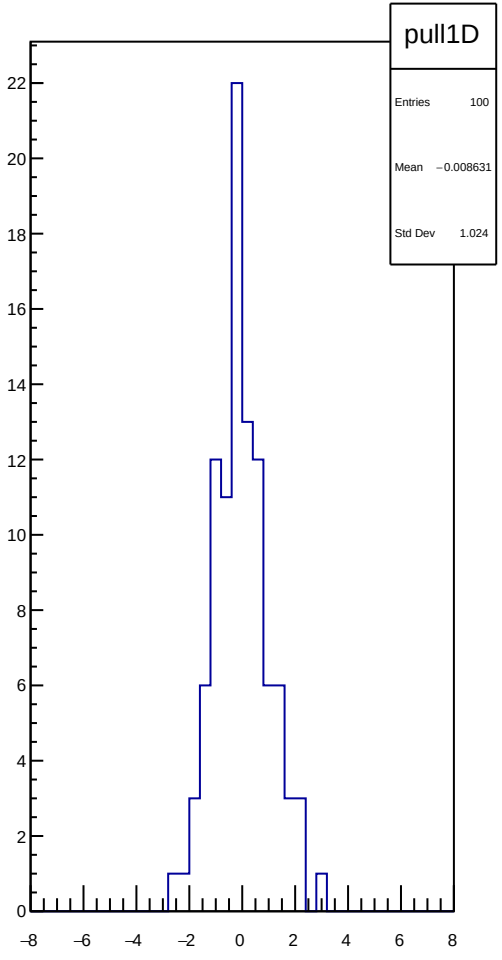

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 5404 / 99
p0 3763 ± 2.716
4200
4000
3800
3600
3400
3200

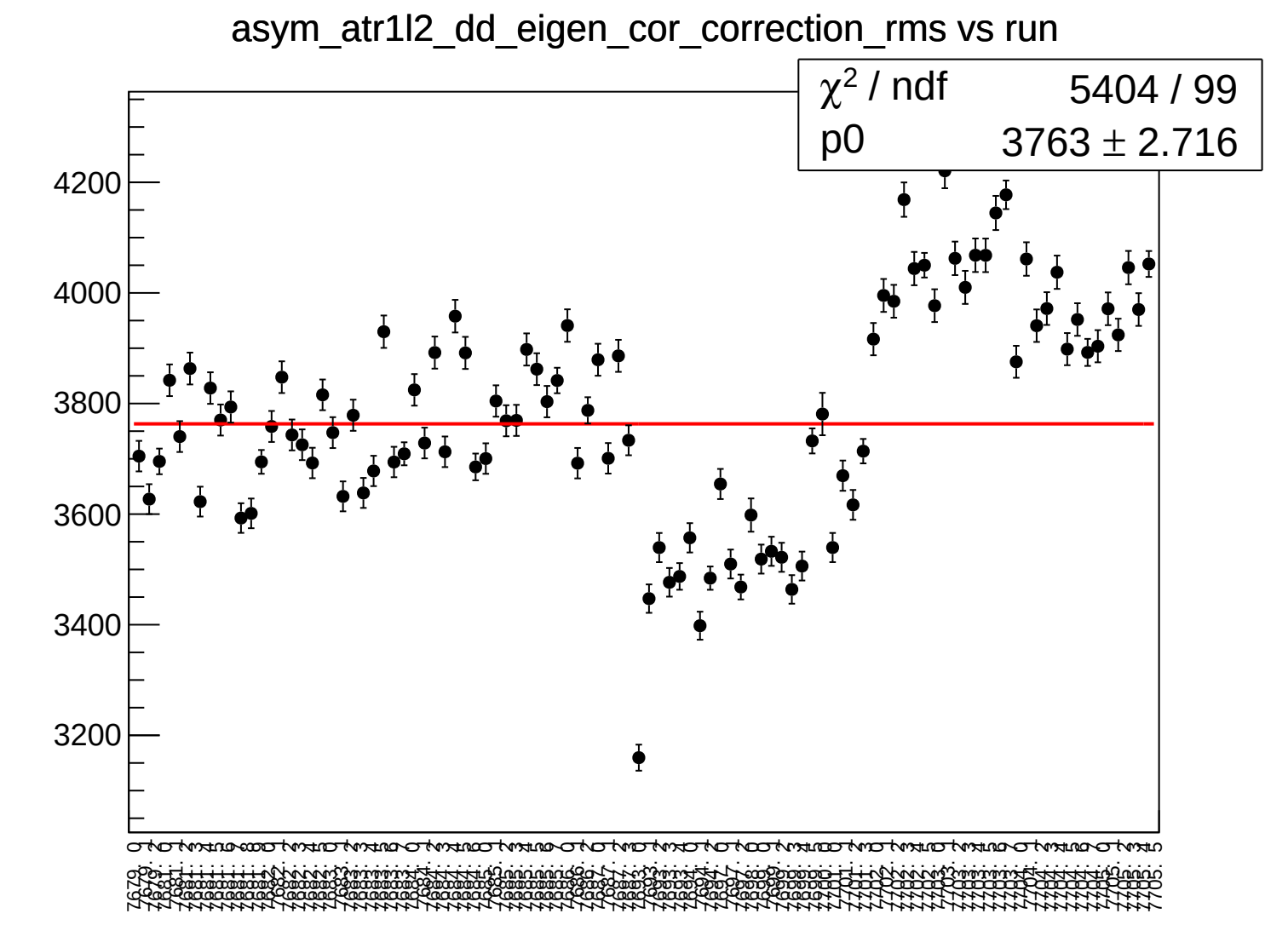

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 86.12 / 99
p0 488.5 ± 1933
pull
Entries 100
Mean 28.18
Std Dev 86.12

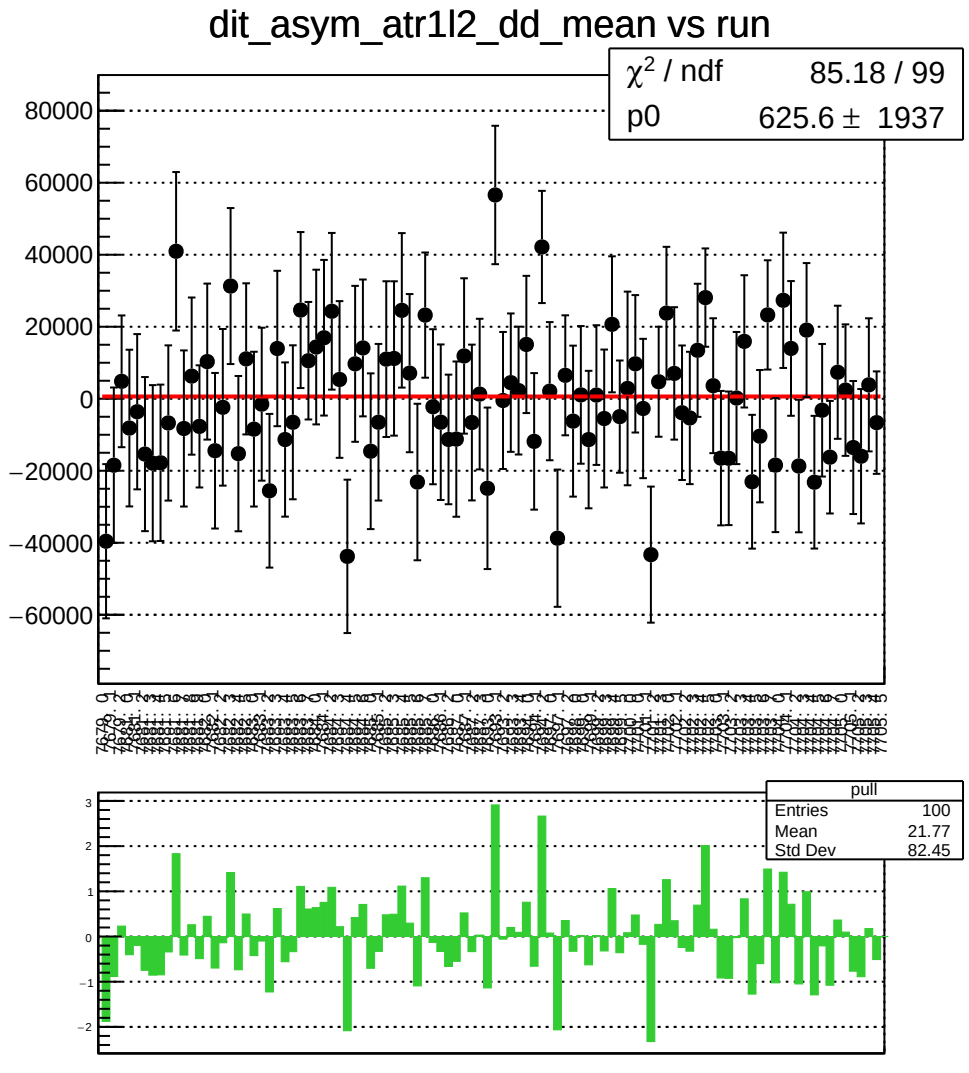

pull1D
Entries 100
Mean −0.01968
Std Dev 0.9278

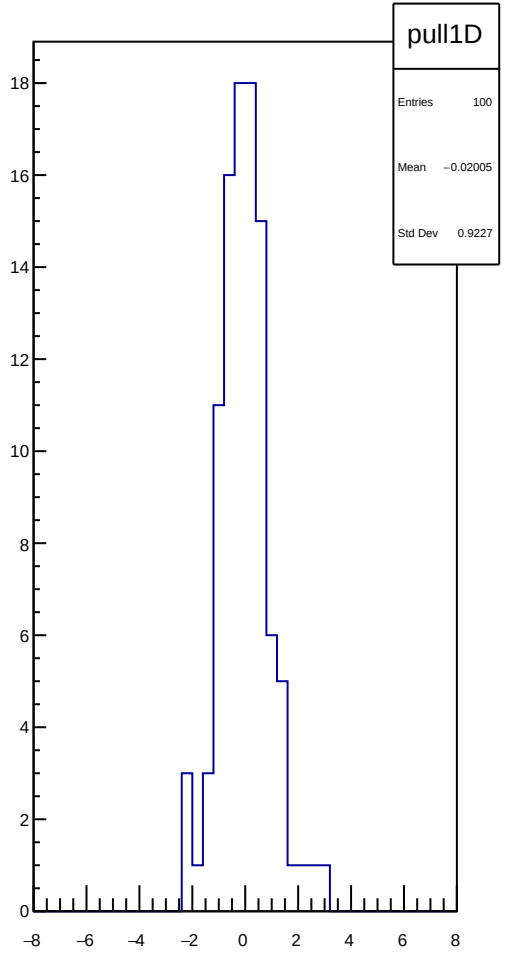

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 1.018e+04 / 99
p0 1892 ± 1.367
2100
2000
1900
1800
1700

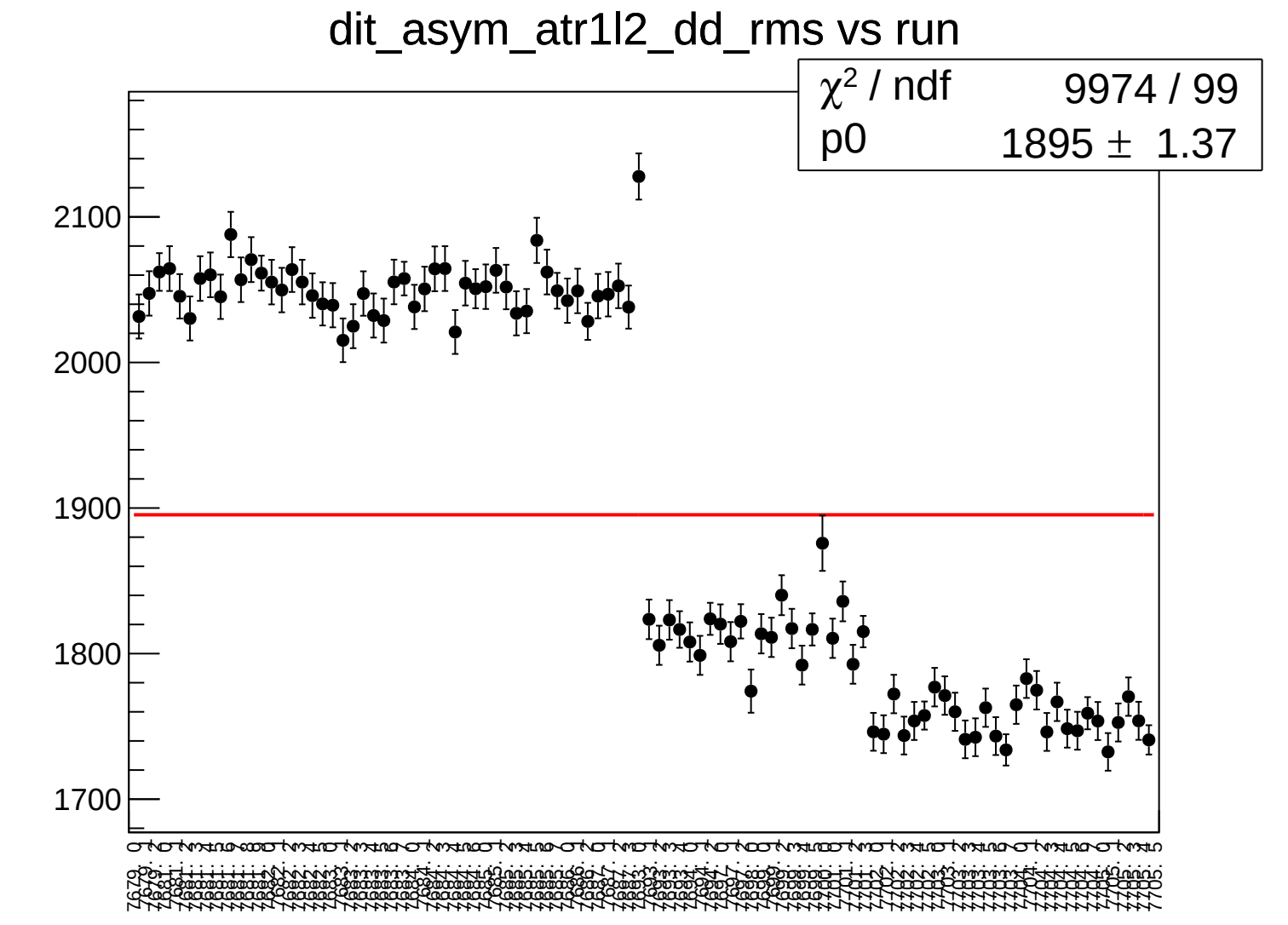

asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 104.8 / 99
p0 −6247 ± 3841
150
100
50
0
−50
−100
−150
pull
Entries 100
Mean 575.4
Std Dev 0
3
2
1
0
−1
−2

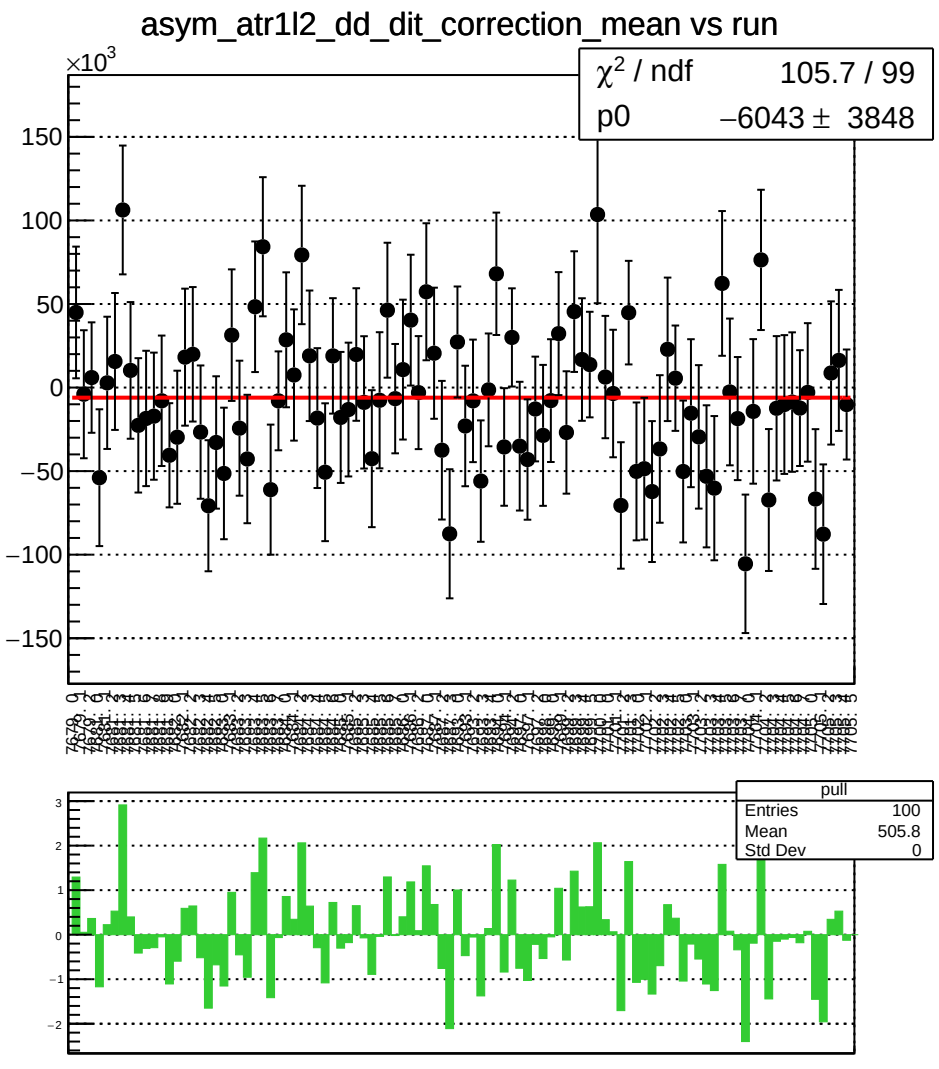

pull1D
Entries 100
Mean −0.008631
Std Dev 1.024
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

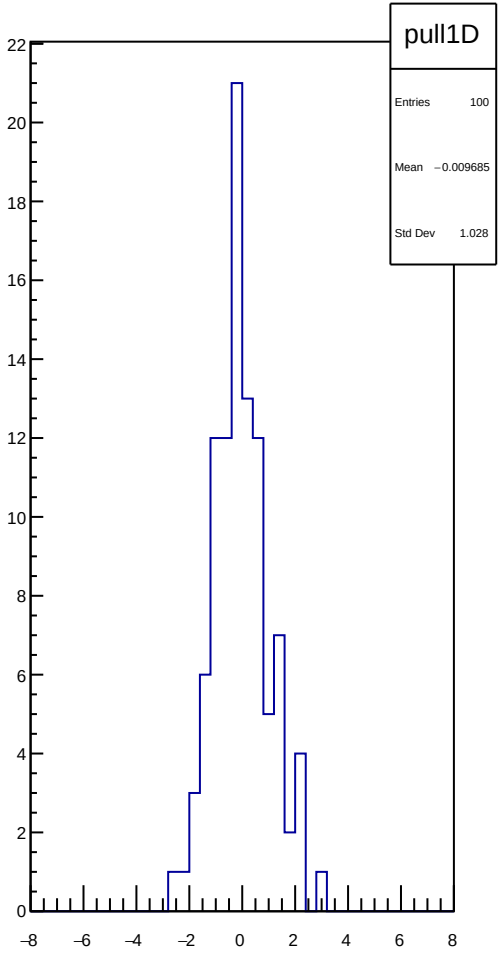

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 5404 / 99
p0 3763 ± 2.716
4200
4000
3800
3600
3400
3200

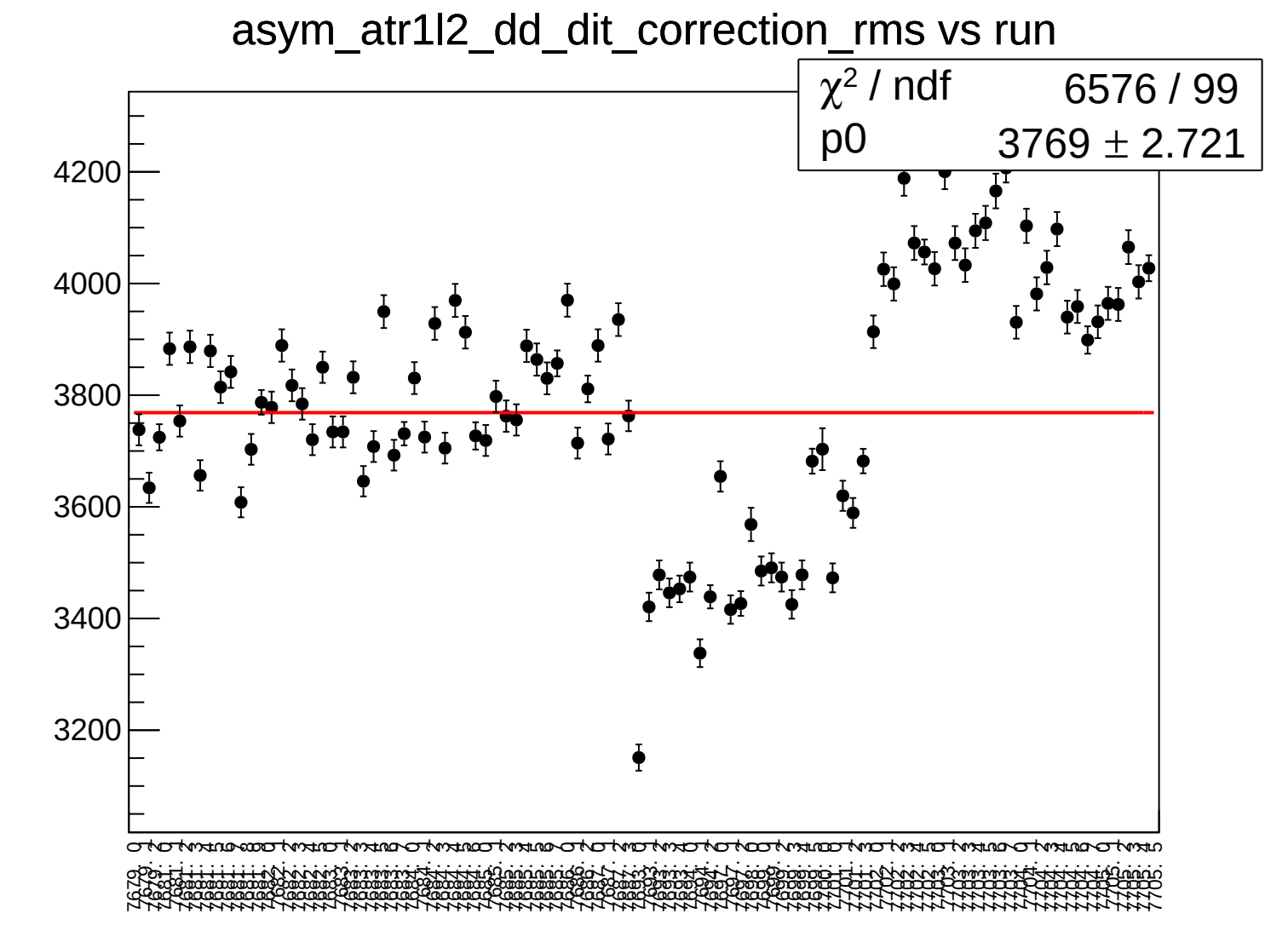

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 85.18 / 99
p0 625.6 ± 1937
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean 21.77
Std Dev 82.45
3
2
1
0
−1
−2

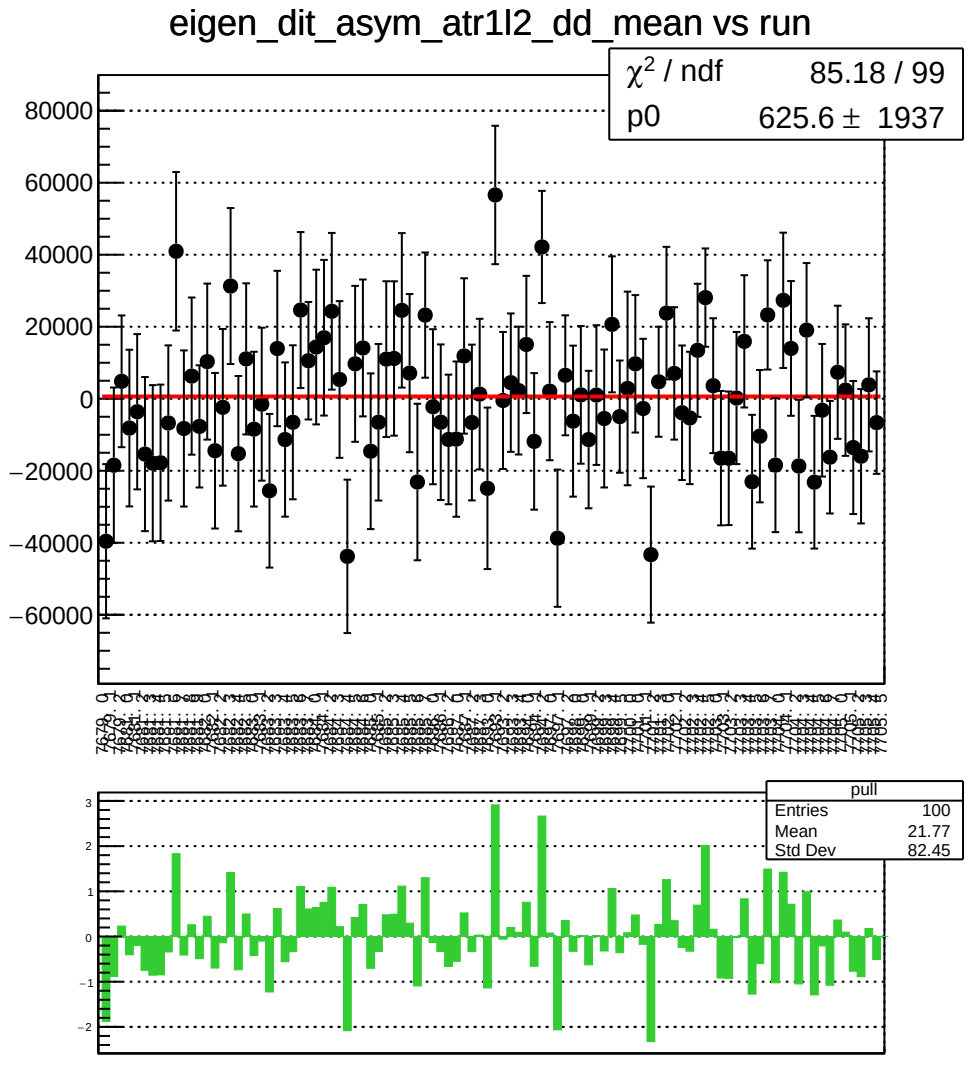

pull1D
Entries 100
Mean −0.02005
Std Dev 0.9227
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

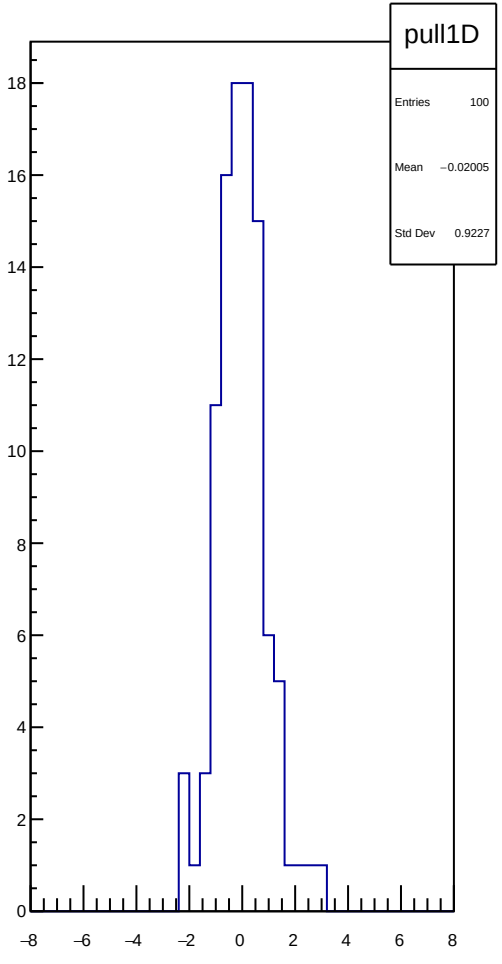

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 9974 / 99
p0 1895 ± 1.37
2100
2000
1900
1800
1700

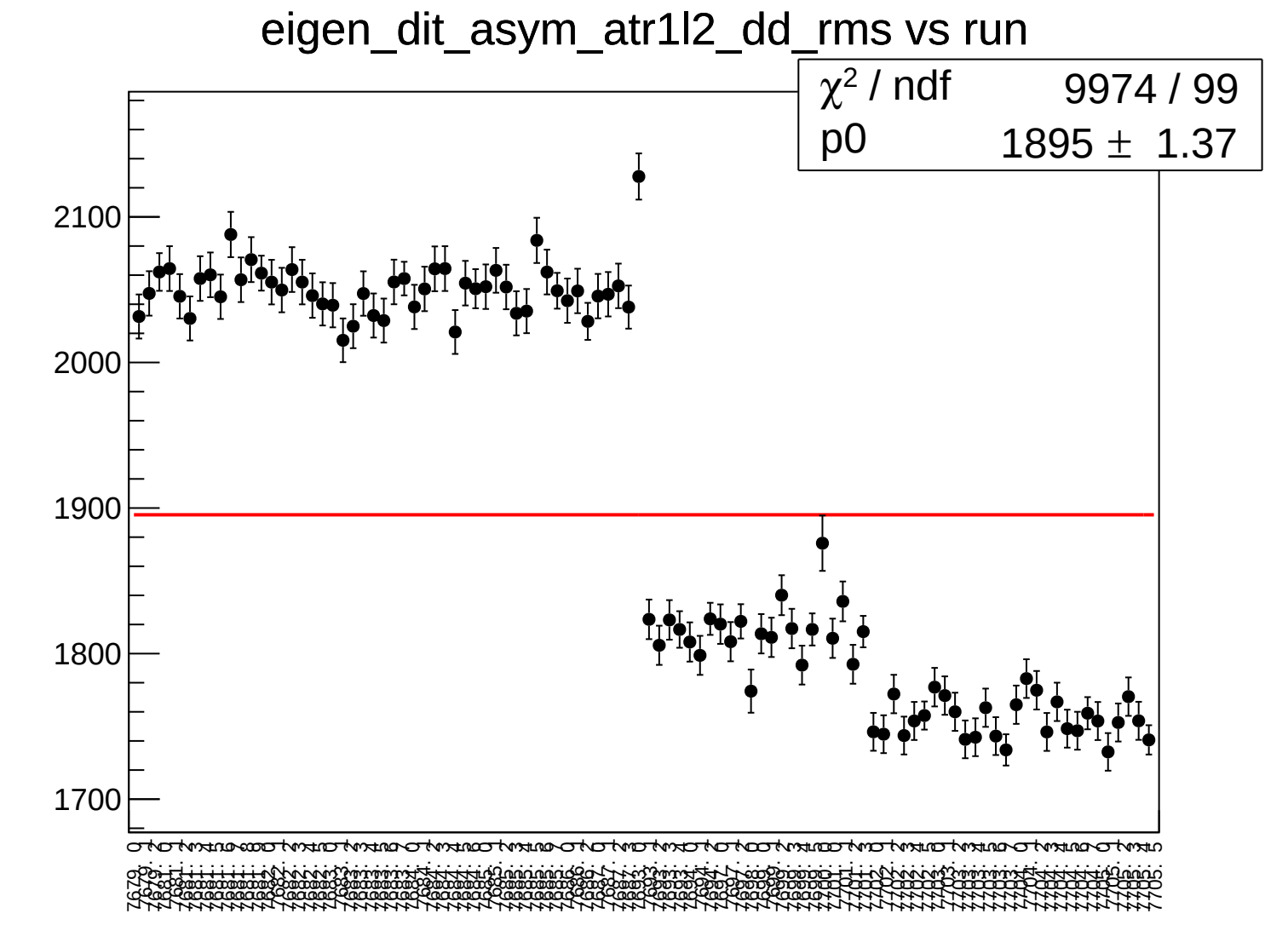

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 105.7 / 99
p0 −6043 ± 3848
150
100
50
0
−50
−100
−150
pull
Entries 100
Mean 505.8
Std Dev 0
3
2
1
0
−1
−2

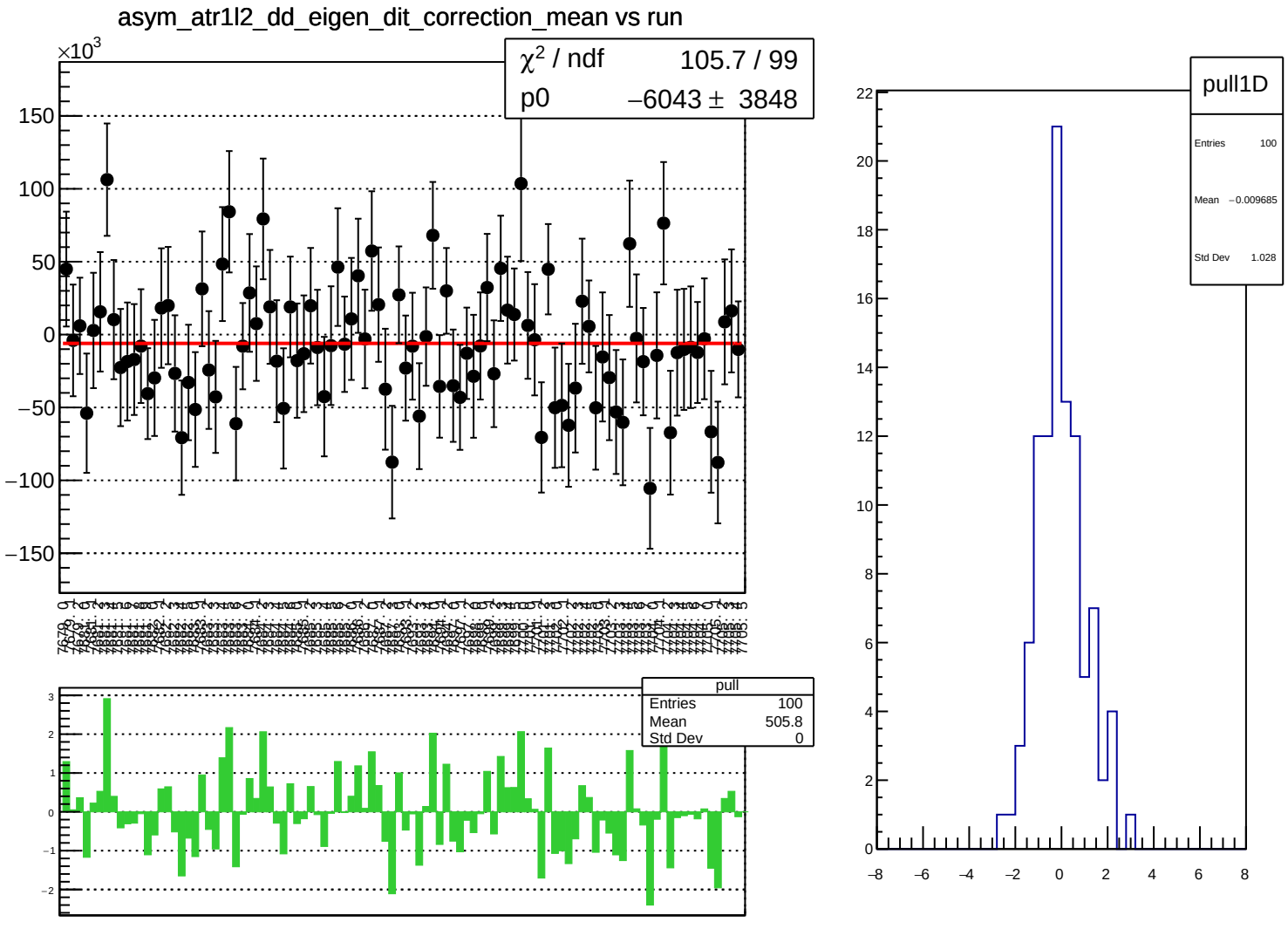

pull1D
Entries 100
Mean −0.009685
Std Dev 1.028
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

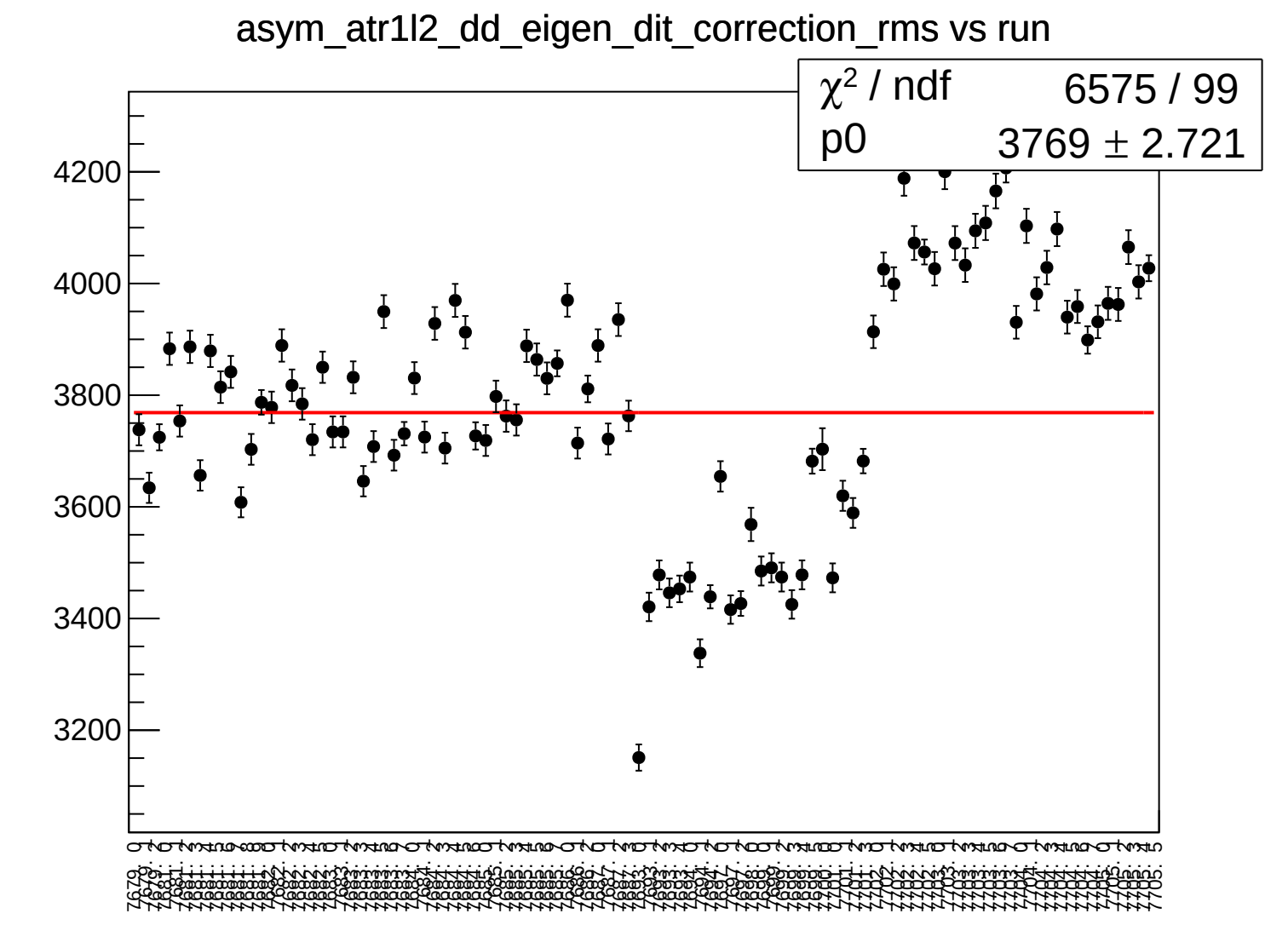

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 6576 / 99
p0 3769 ± 2.721
4200
4000
3800
3600
3400
3200

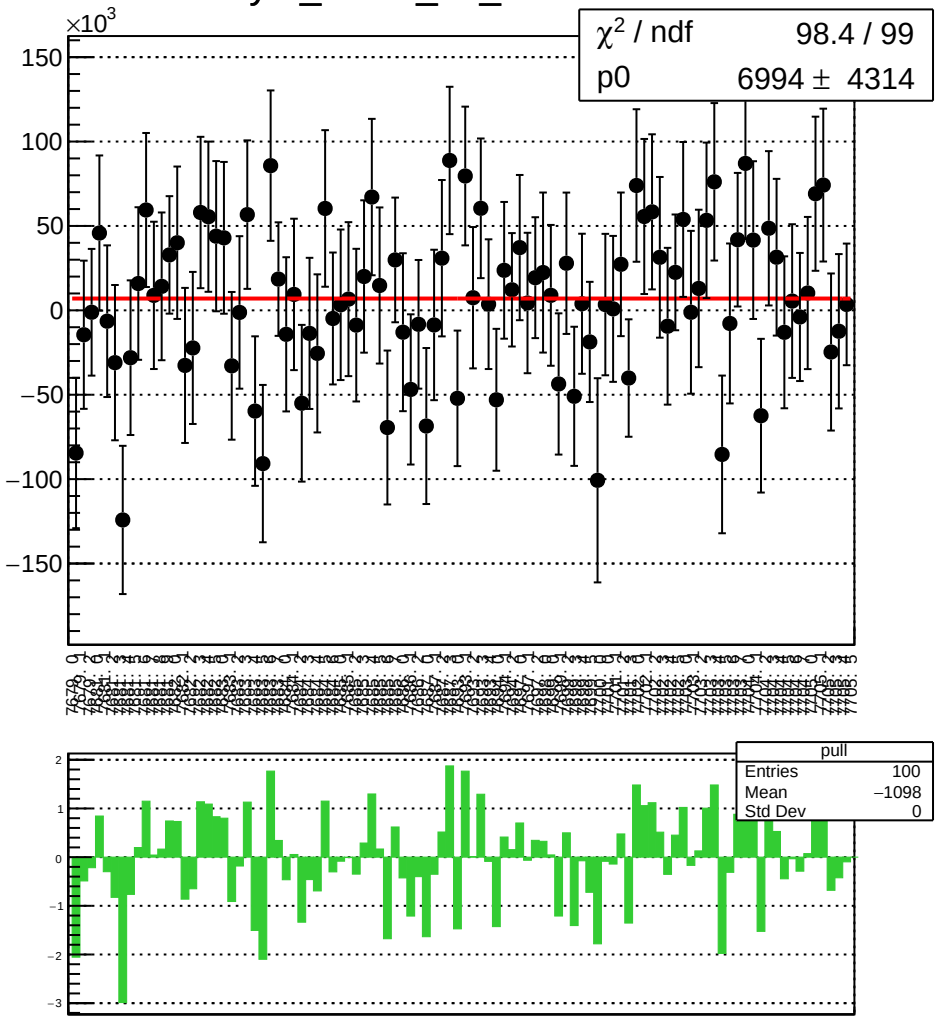

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 85.18 / 99
p0 625.6 ± 1937
pull
Entries 100
Mean 21.77
Std Dev 82.45

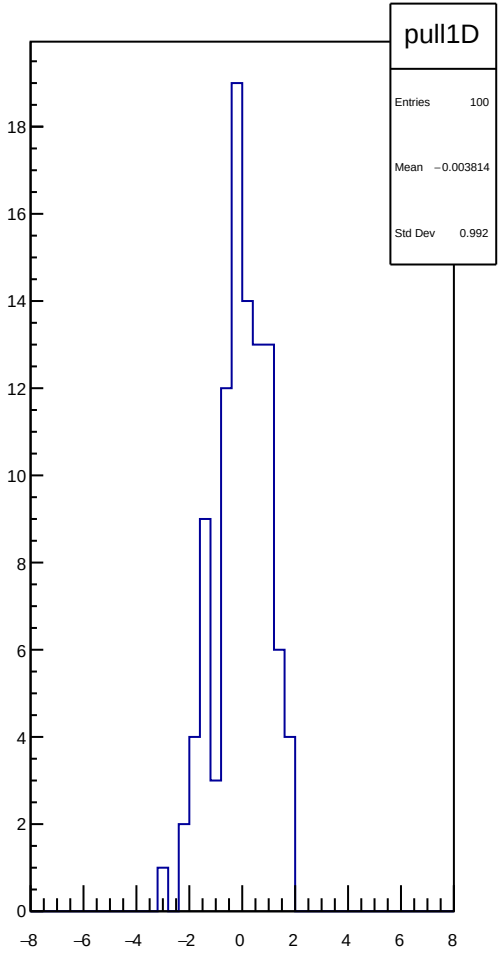

pull1D
Entries 100
Mean −0.02005
Std Dev 0.9227

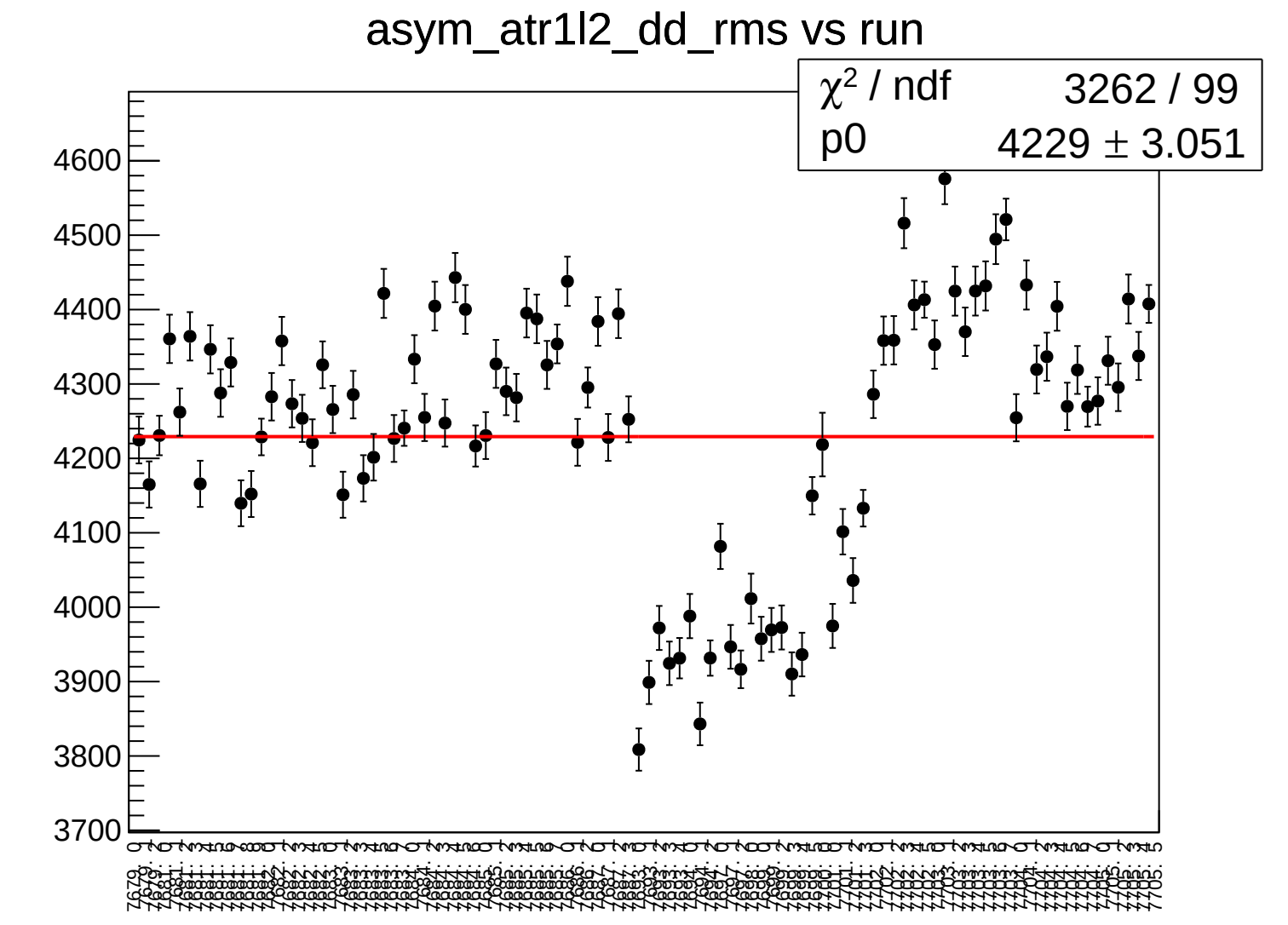

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 9974 / 99
p0 1895 ± 1.37
2100
2000
1900
1800
1700

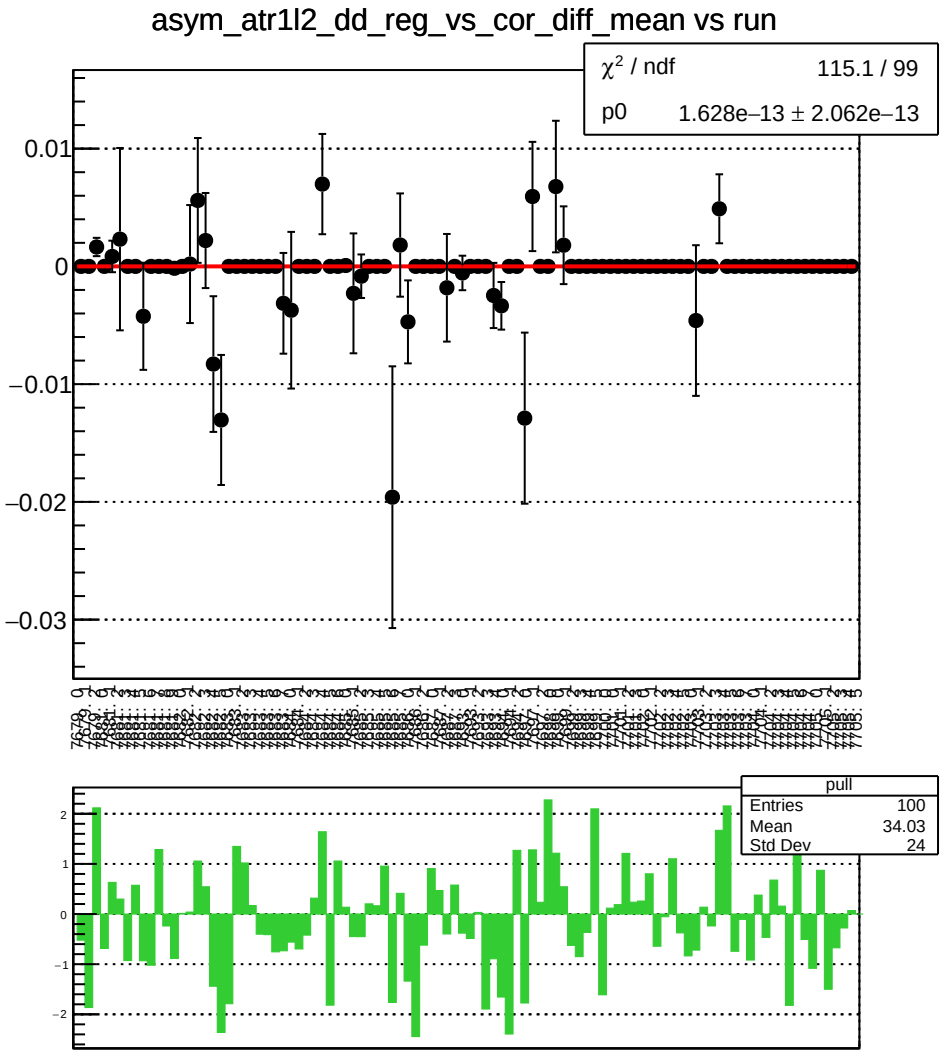

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 105.7 / 99
p0 −6043 ± 3848
150
100
50
0
−50
−100
−150
pull
Entries 100
Mean 505.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.009685
Std Dev 1.028
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

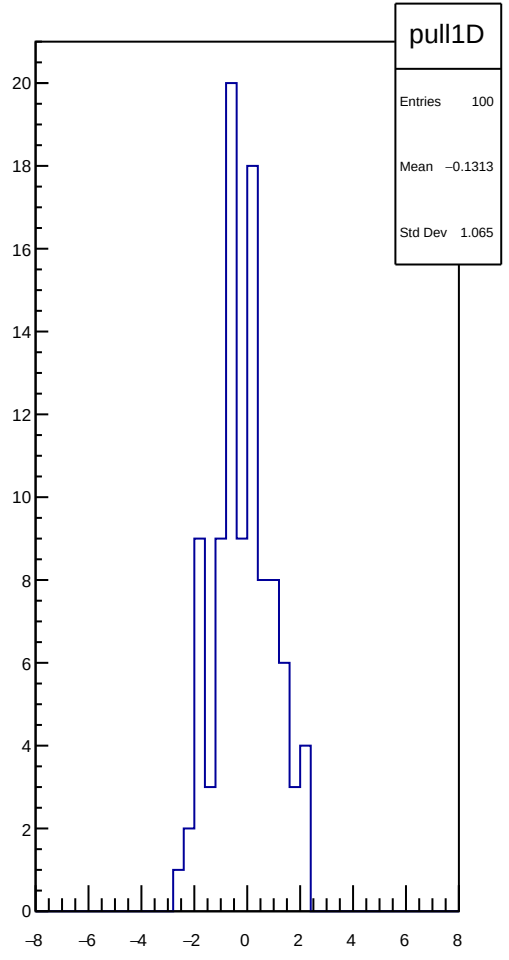

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 6575 / 99
p0 3769 ± 2.721
4200
4000
3800
3600
3400
3200

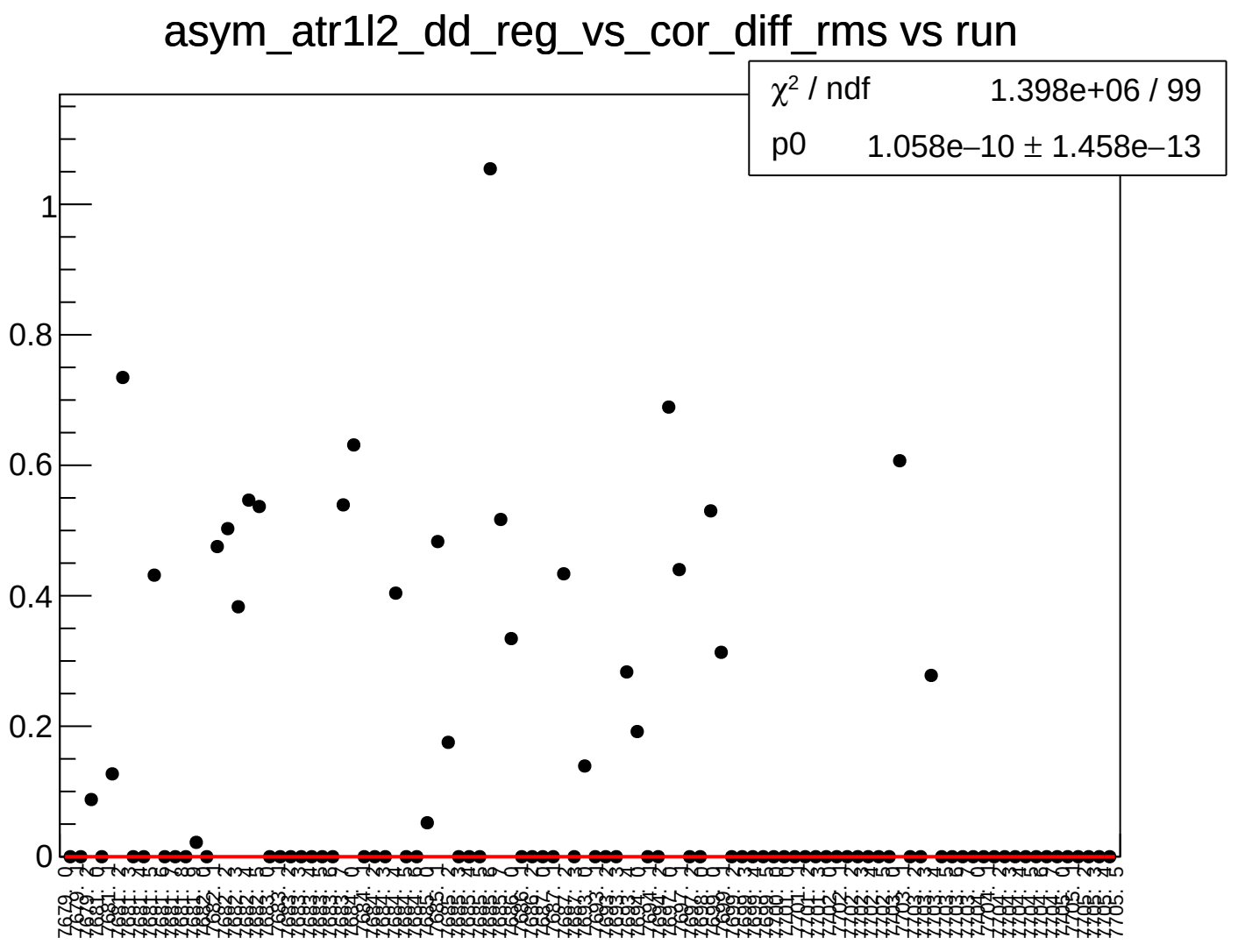

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 98.4 / 99
p0 6994 ± 4314
150
100
50
0
−50
−100
−150
pull
Entries 100
Mean −1098
Std Dev 0
2
1
0
−1
−2
−3

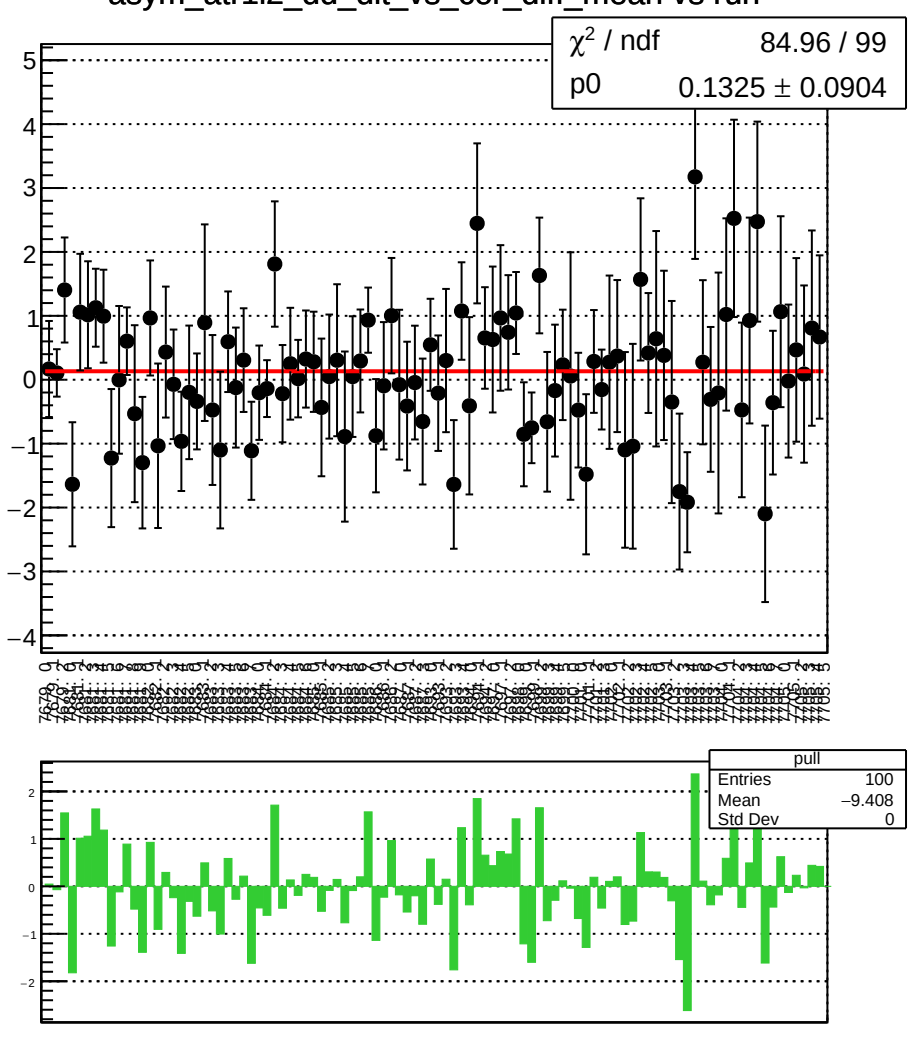

pull1D
Entries 100
Mean −0.003814
Std Dev 0.992
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

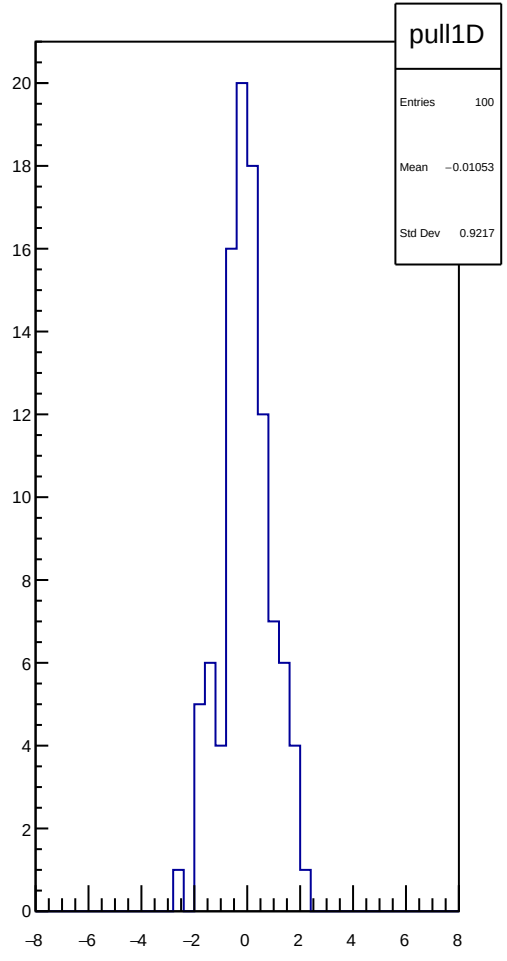

asym_atr1l2_dd_rms vs run
χ^2 / ndf 3262 / 99
p0 4229 ± 3.051
4600
4500
4400
4300
4200
4100
4000
3900
3800
3700

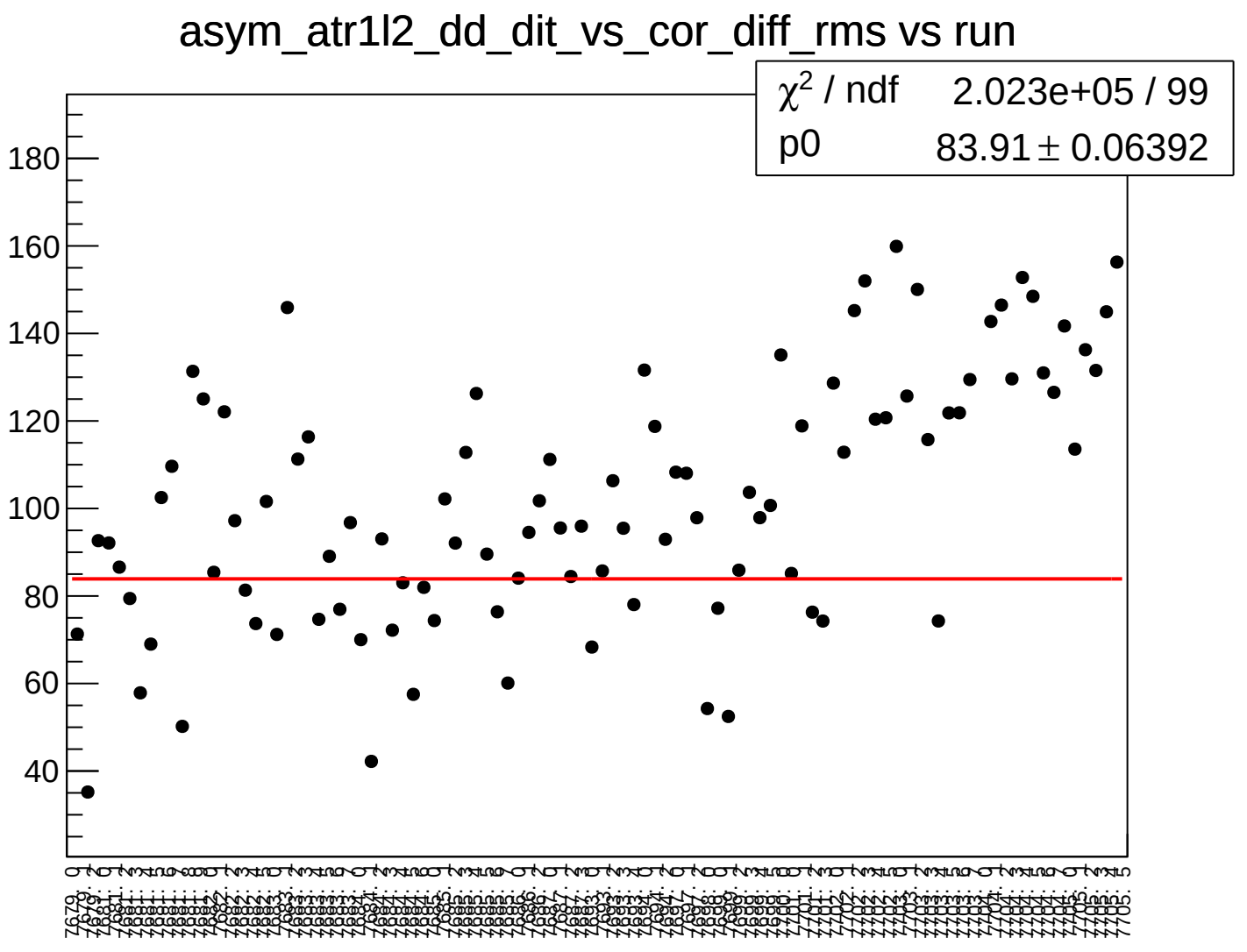

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 115.1 / 99
p0 1.628e−13 ± 2.062e−13
0.01
0
−0.01
−0.02
−0.03
pull
Entries 100
Mean 34.03
Std Dev 24
2
1
0
−1
−2

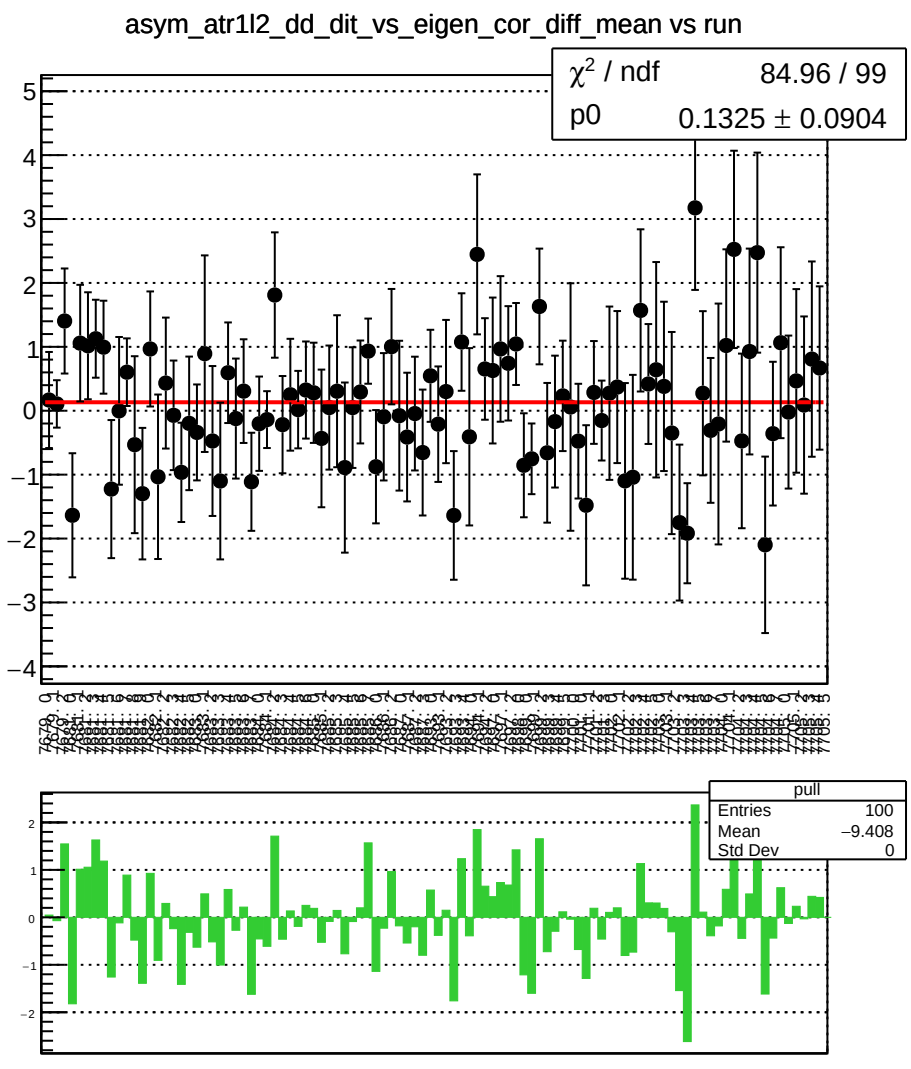

pull1D
Entries 100
Mean −0.1313
Std Dev 1.065
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

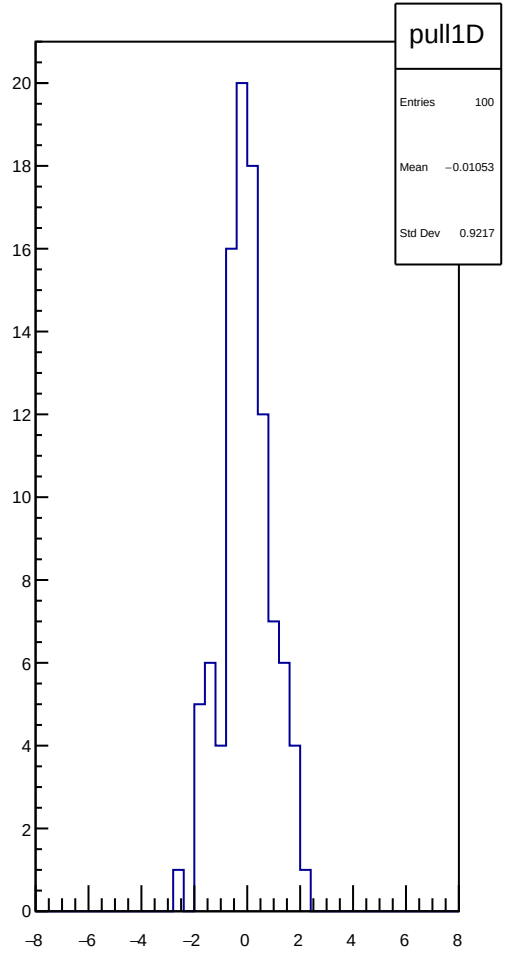

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.398e+06 / 99
p0 1.058e−10 ± 1.458e−13
1
0.8
0.6
0.4
0.2
0

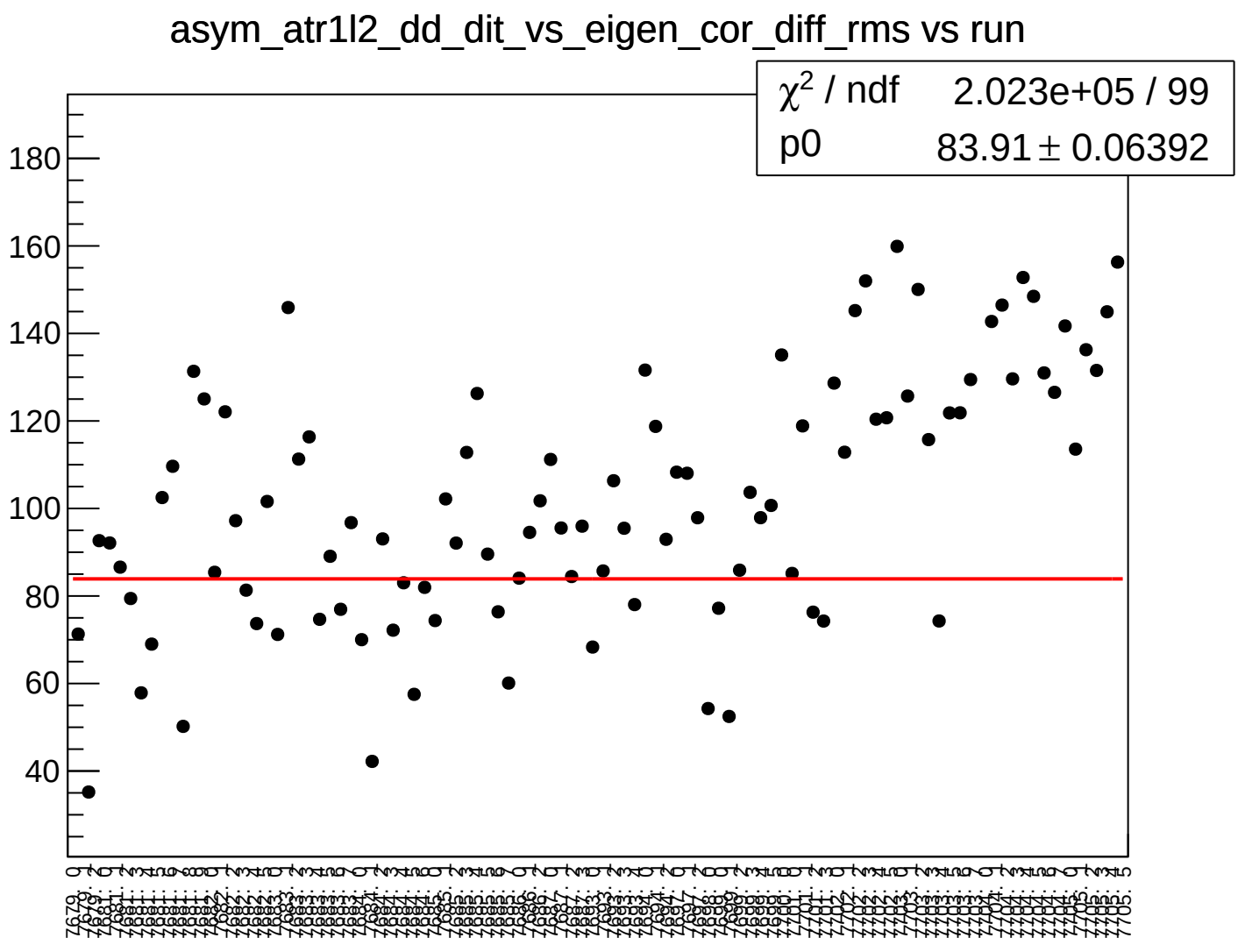

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.96 / 99
p0 0.1325 ± 0.0904
pull
Entries 100
Mean −9.408
Std Dev 0

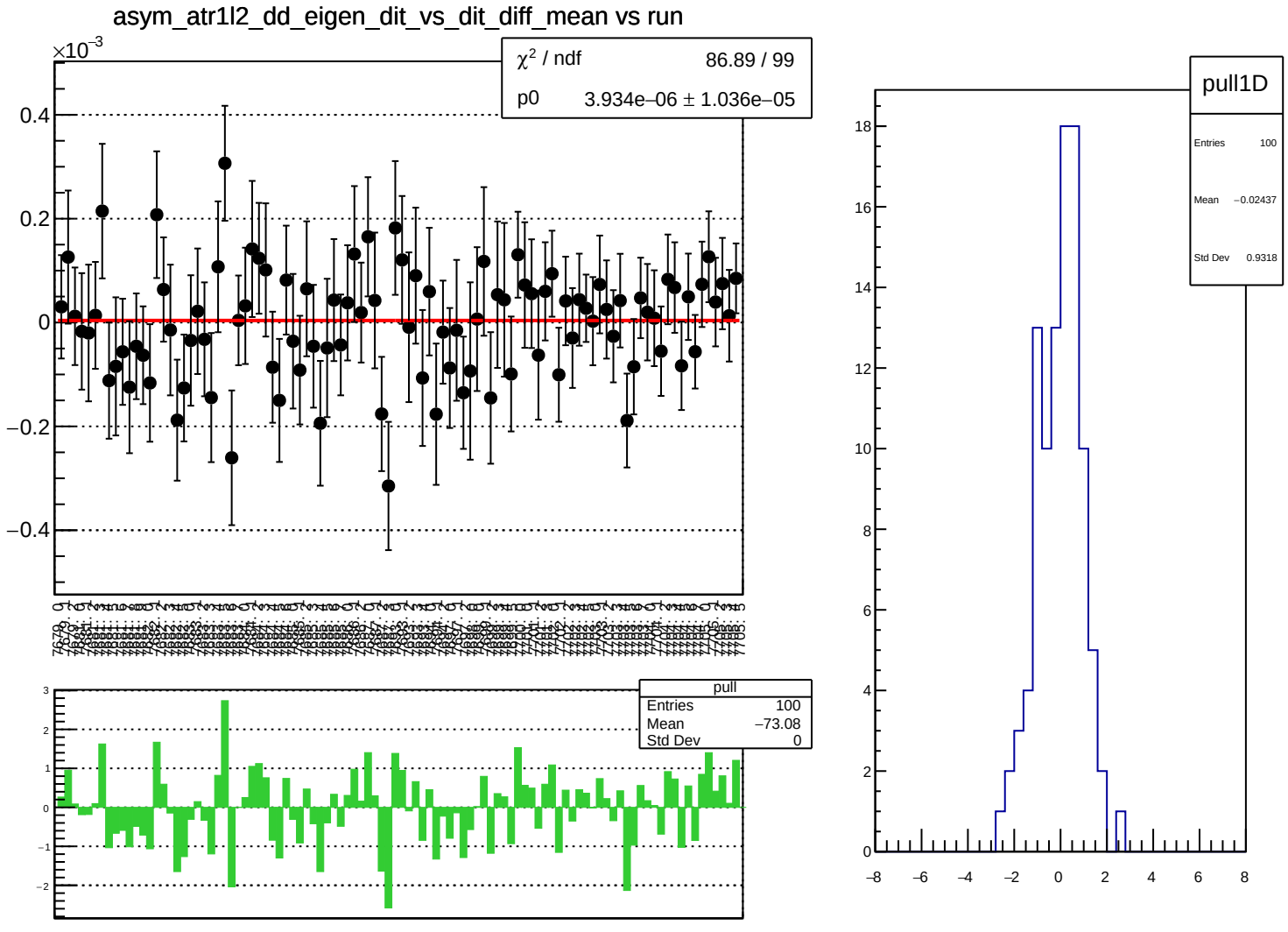

pull1D
Entries 100
Mean −0.01053
Std Dev 0.9217

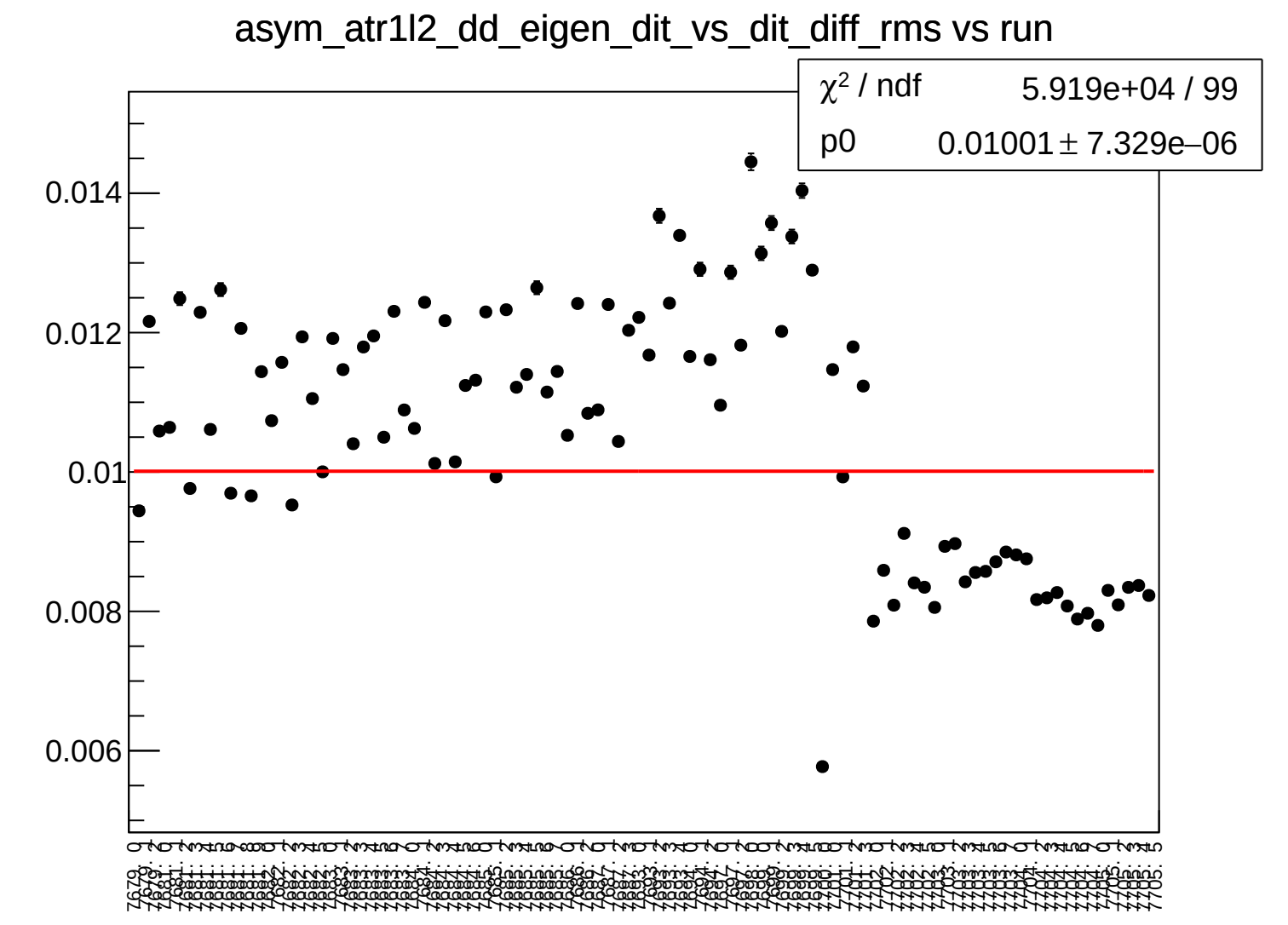

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.023e+05 / 99
p0 83.91 ± 0.06392
180
160
140
120
100
80
60
40

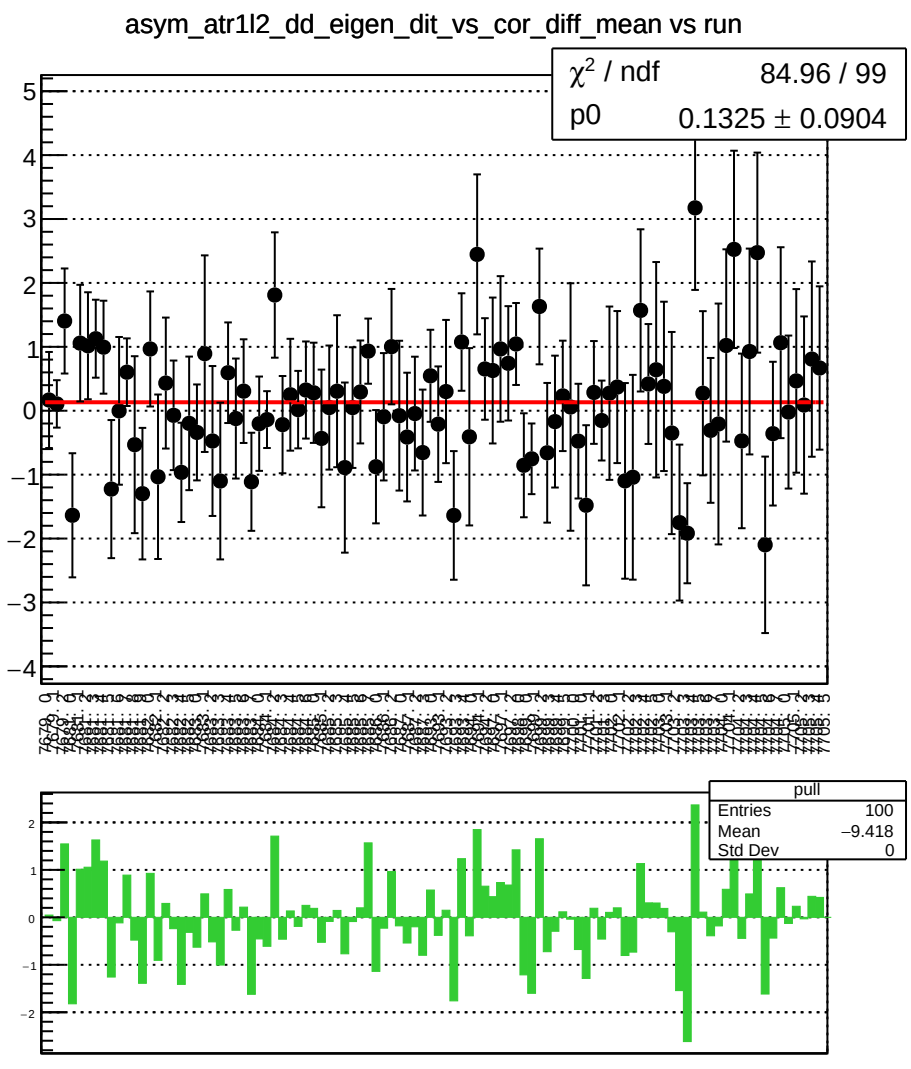

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.96 / 99
p0 0.1325 ± 0.0904
pull
Entries 100
Mean −9.408
Std Dev 0

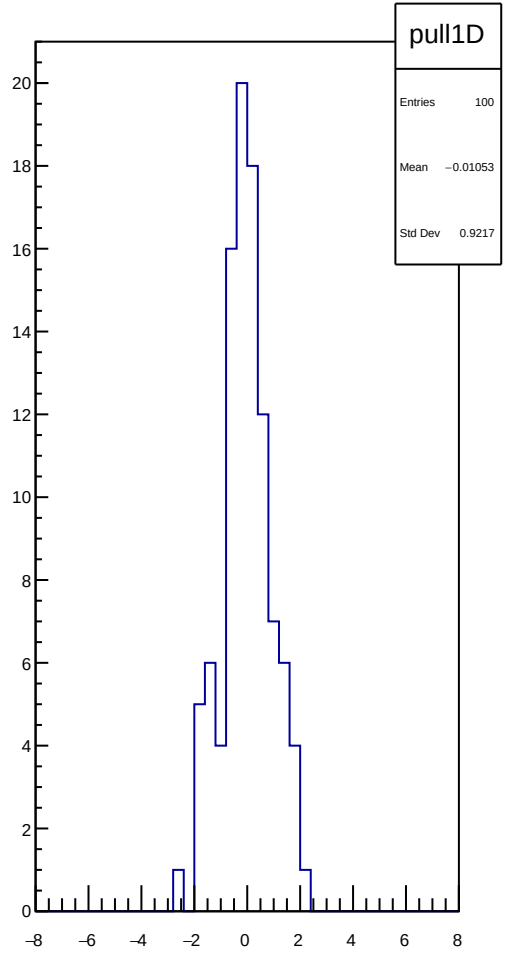

pull1D
Entries 100
Mean −0.01053
Std Dev 0.9217

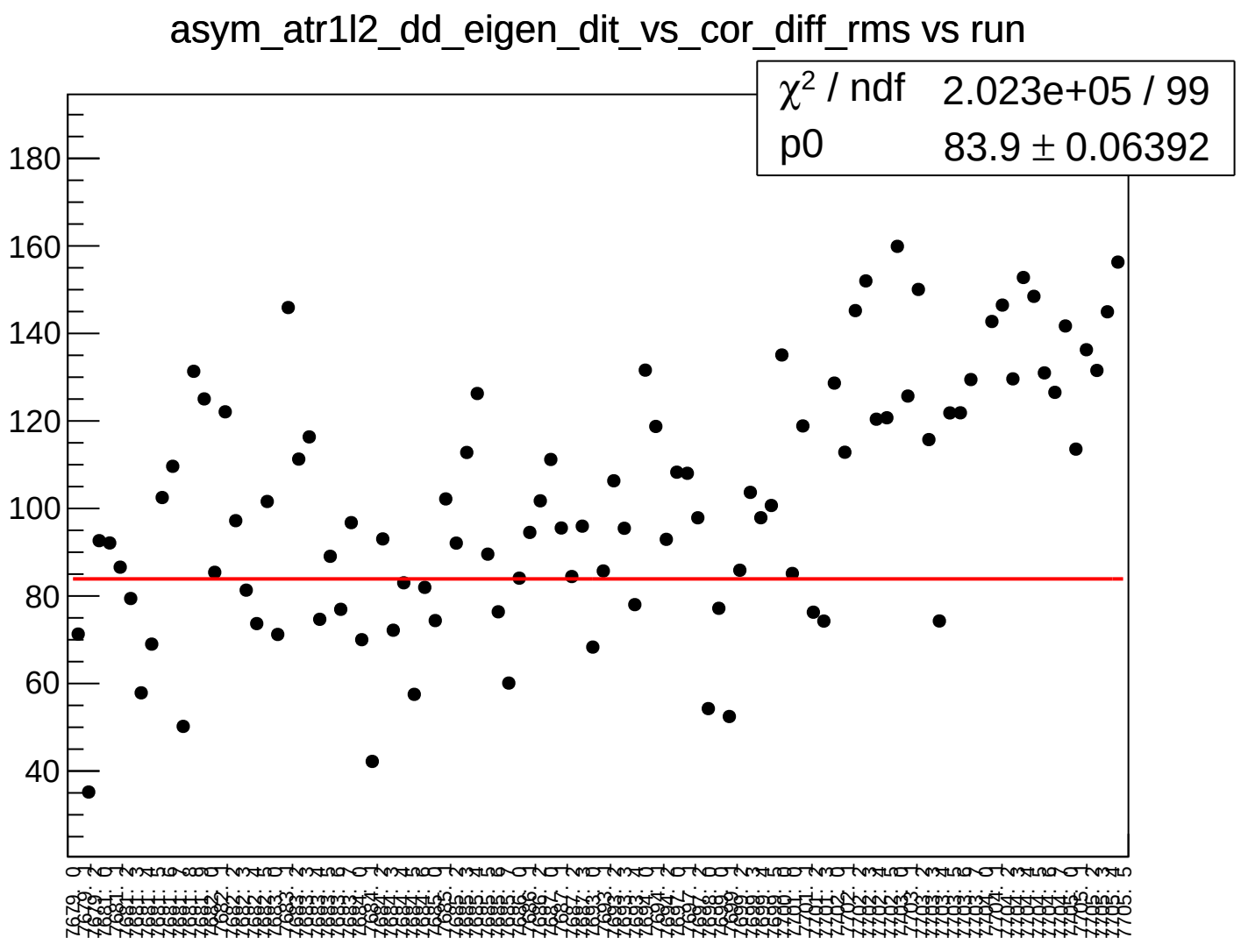

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.023e+05 / 99
p0 83.91 ± 0.06392
180
160
140
120
100
80
60
40

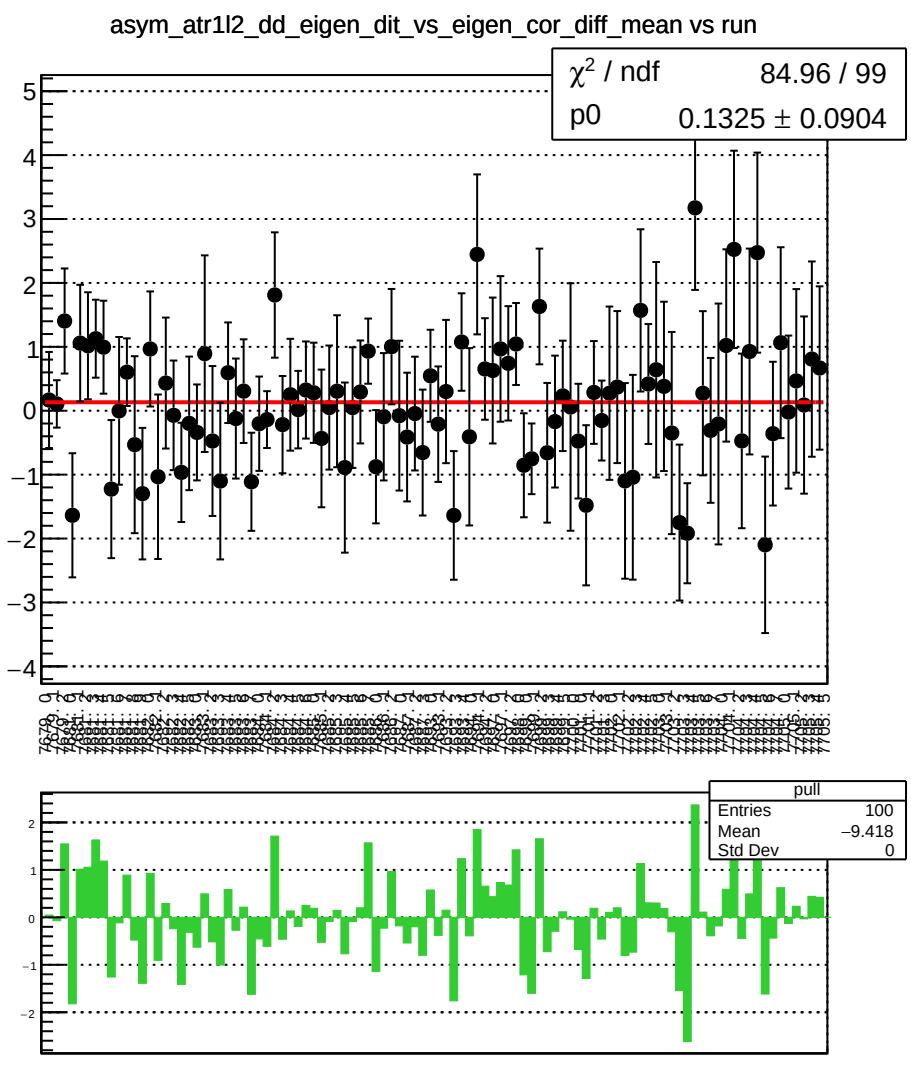

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.89 / 99
p0 3.934e−06 ± 1.036e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 100
Mean −73.08
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.02437
Std Dev 0.9318
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

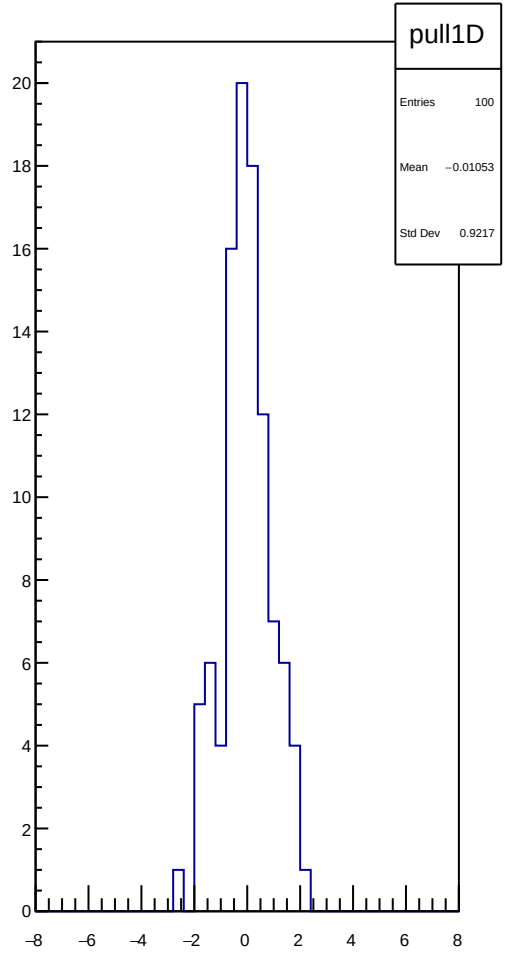

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.919e+04 / 99
p0 0.01001 ± 7.329e–06
0.014
0.012
0.01
0.008
0.006

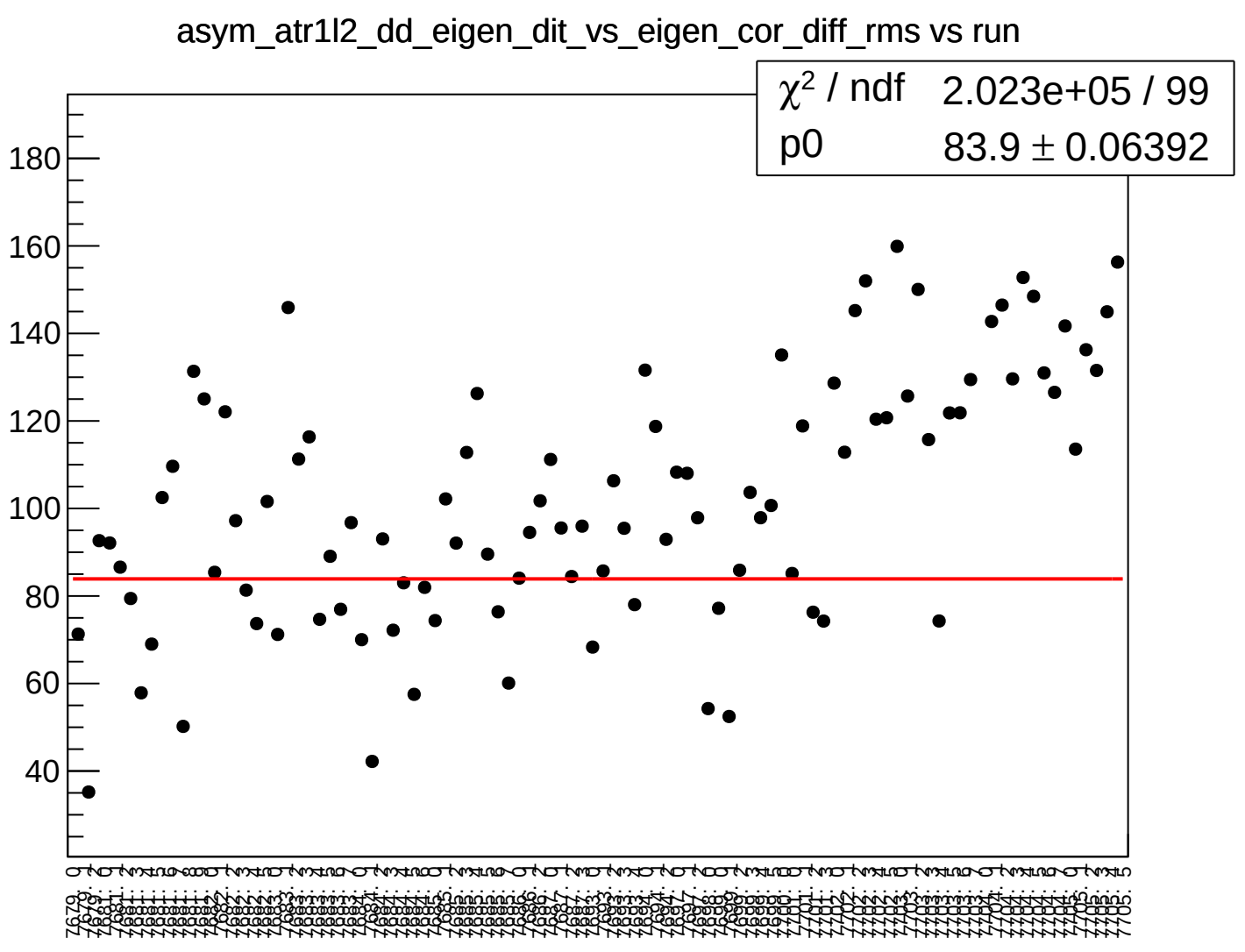

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.96 / 99
p0 0.1325 ± 0.0904
pull
Entries 100
Mean −9.418
Std Dev 0

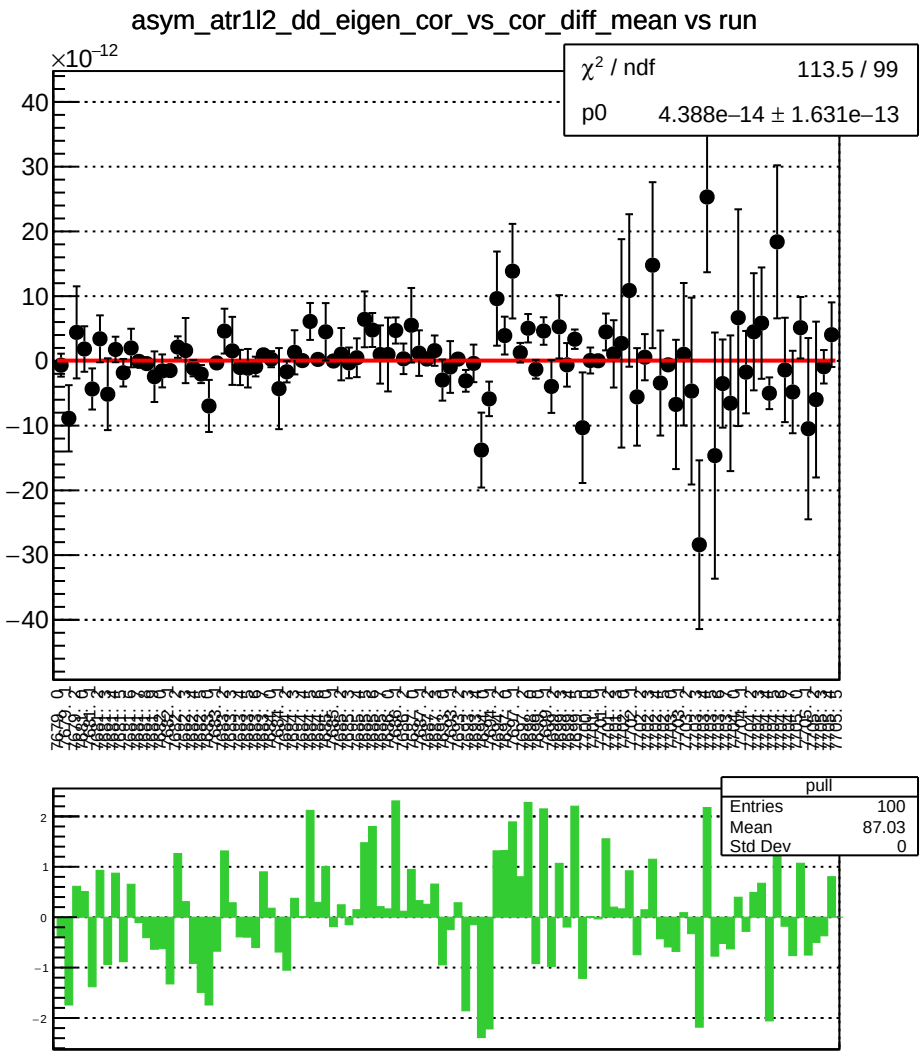

pull1D
Entries 100
Mean −0.01053
Std Dev 0.9217

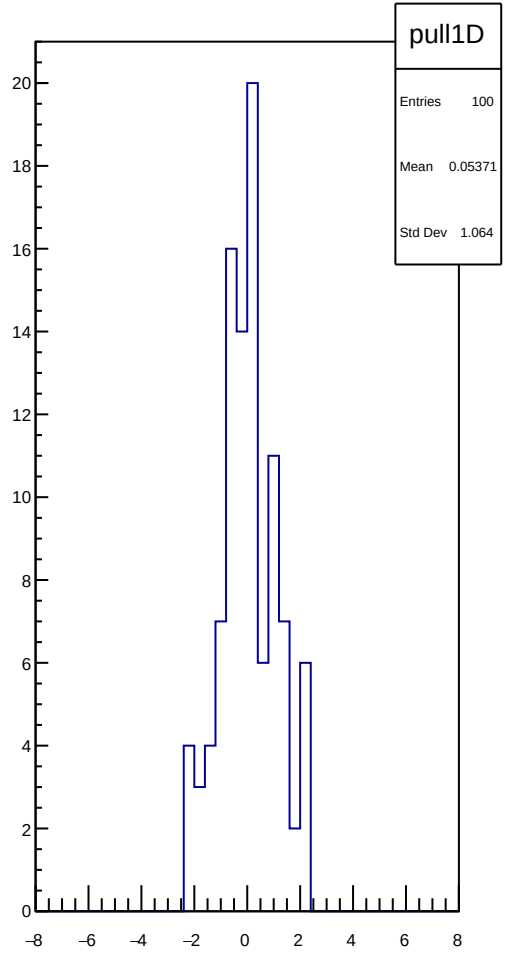

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.023e+05 / 99
p0 83.9 ± 0.06392
180
160
140
120
100
80
60
40

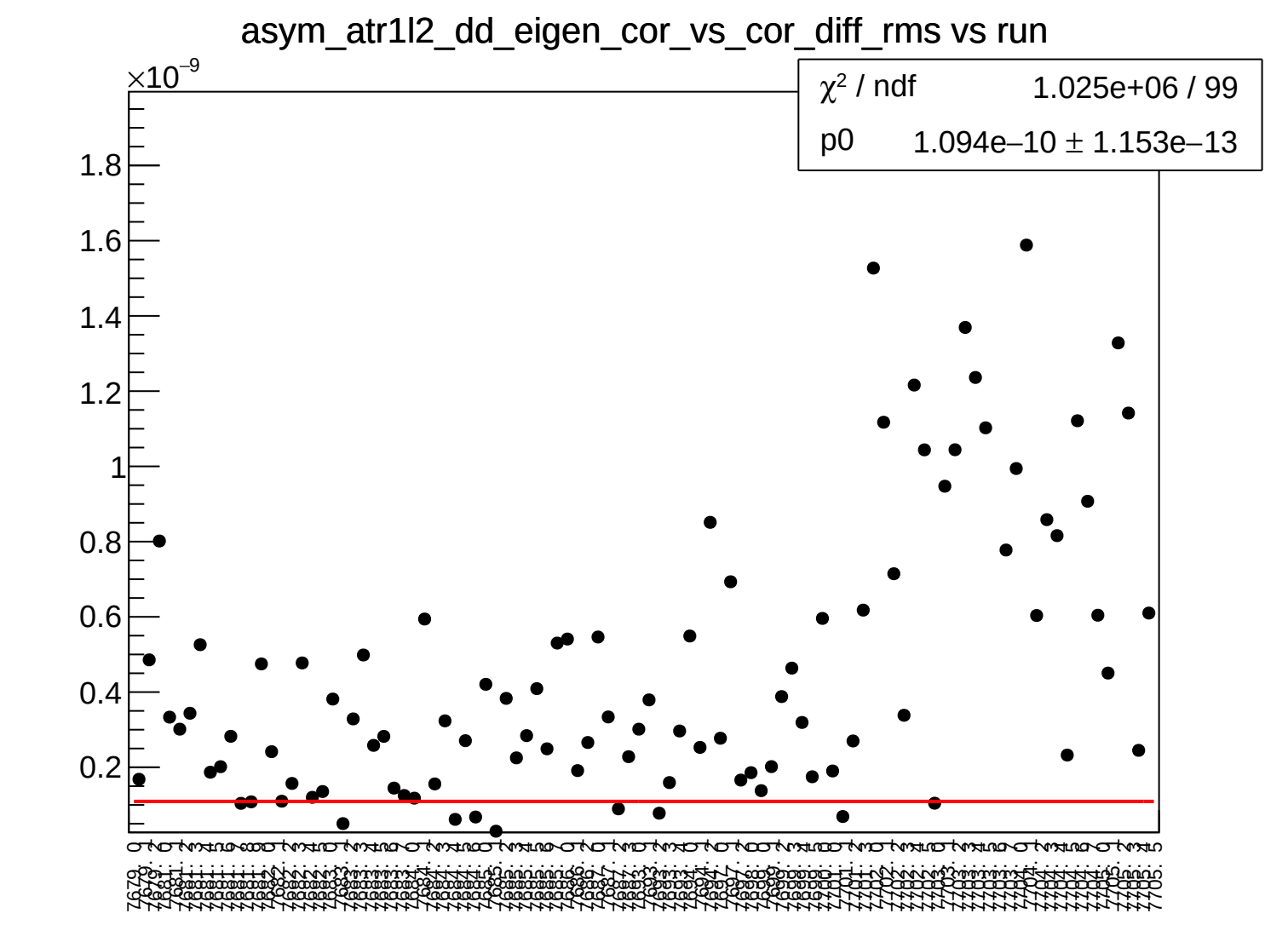

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.96 / 99
p0 0.1325 ± 0.0904
pull
Entries 100
Mean −9.418
Std Dev 0

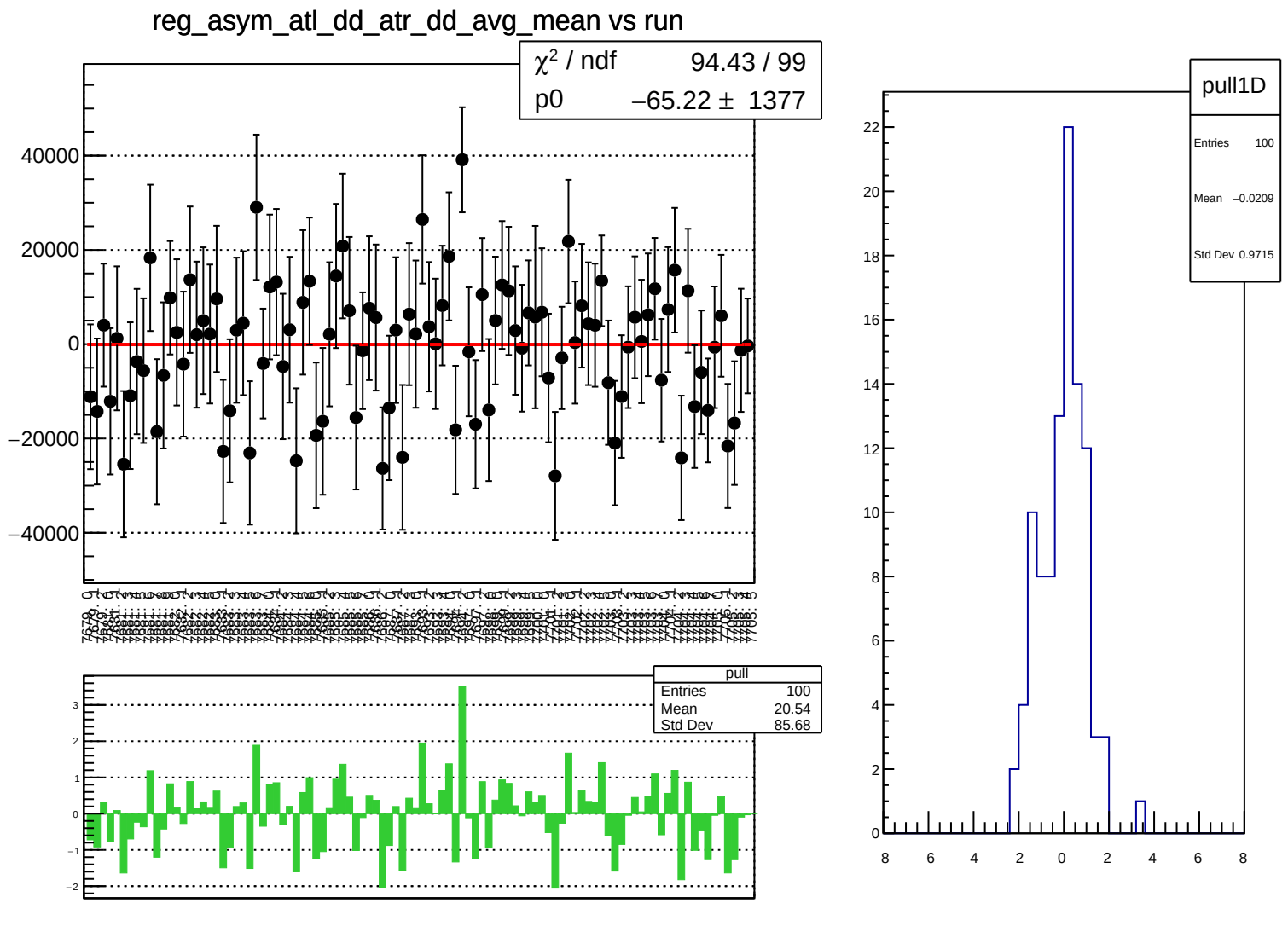

pull1D
Entries 100
Mean −0.01053
Std Dev 0.9217

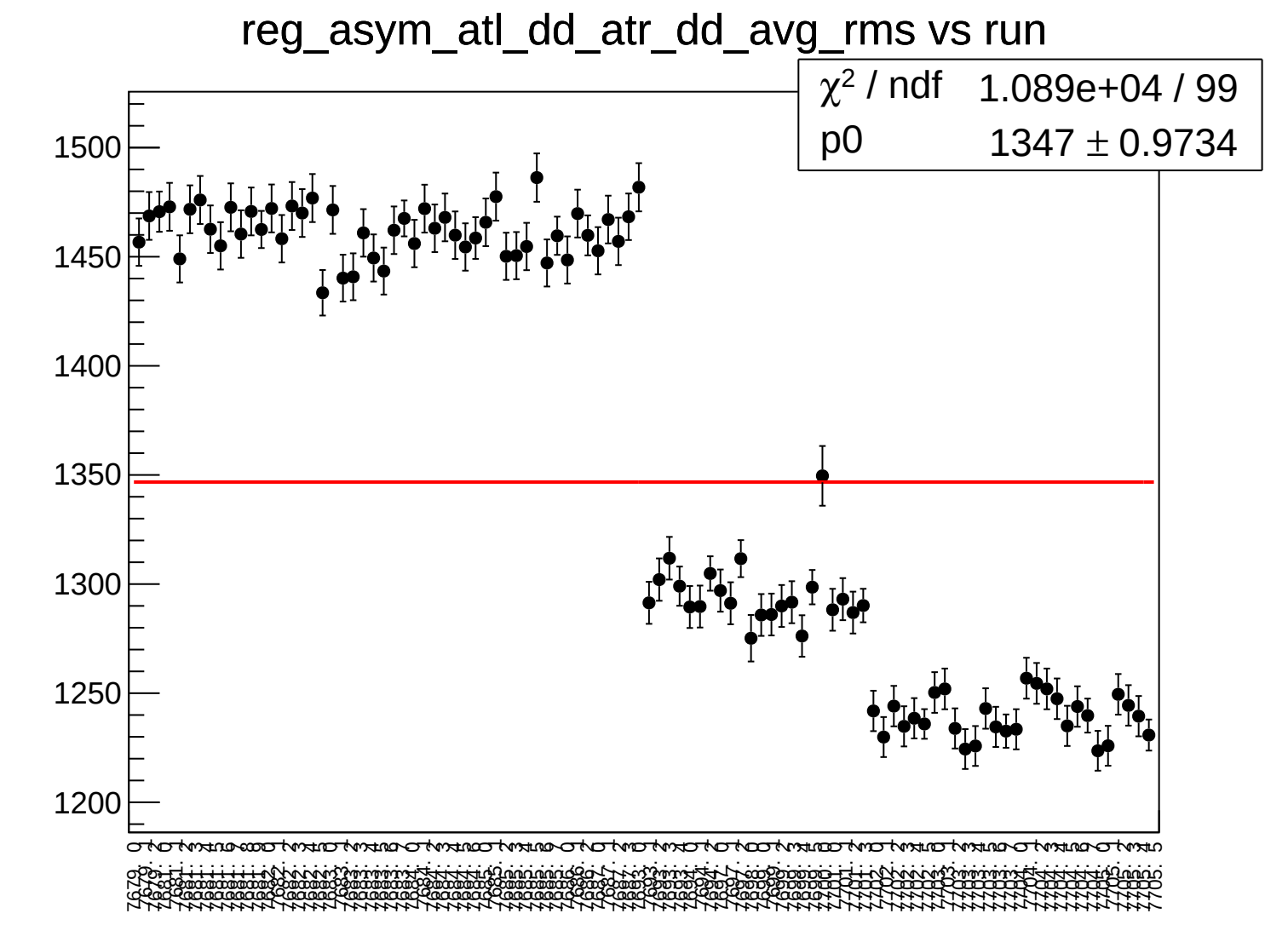

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.023e+05 / 99
p0 83.9 ± 0.06392
180
160
140
120
100
80
60
40

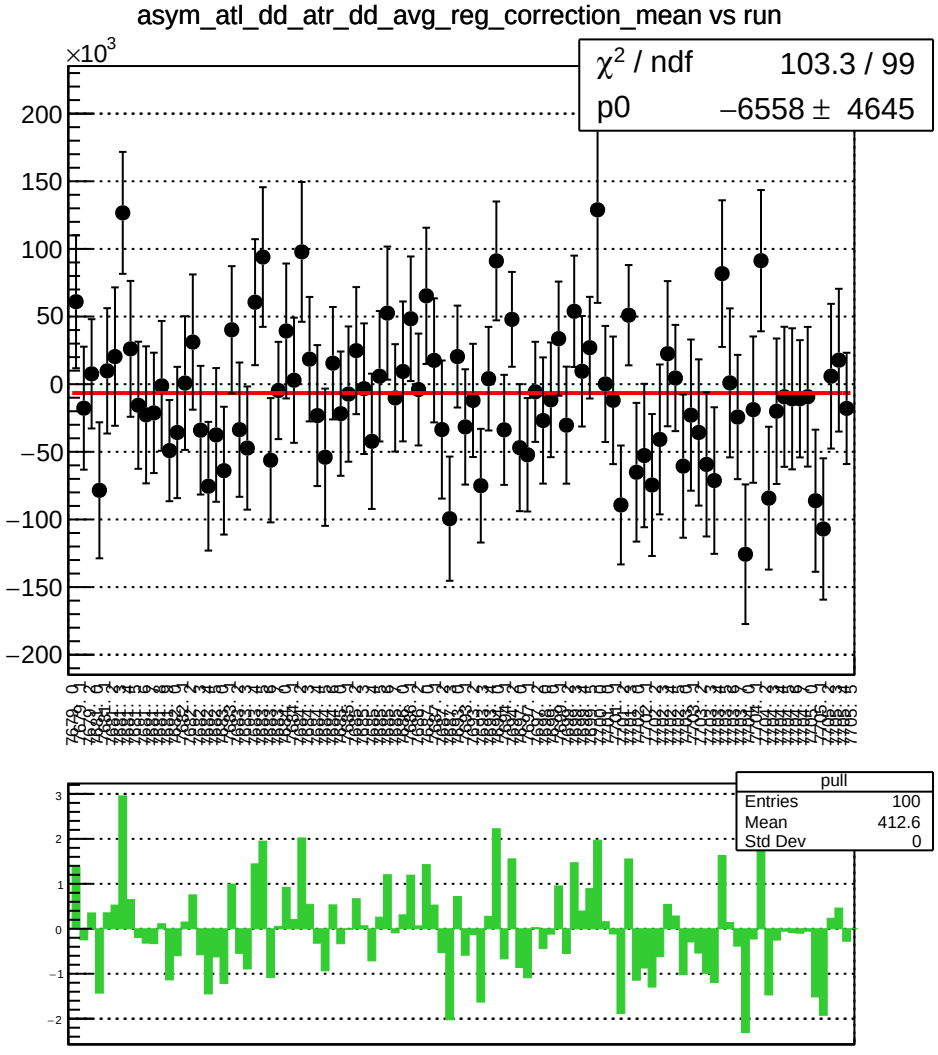

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 113.5 / 99
p0 4.388e−14 ± 1.631e−13
pull
Entries 100
Mean 87.03
Std Dev 0

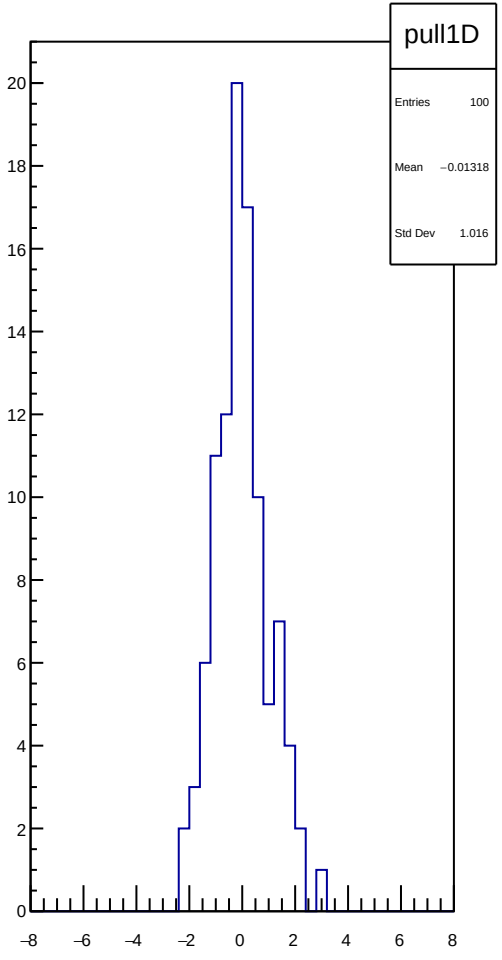

pull1D
Entries 100
Mean 0.05371
Std Dev 1.064

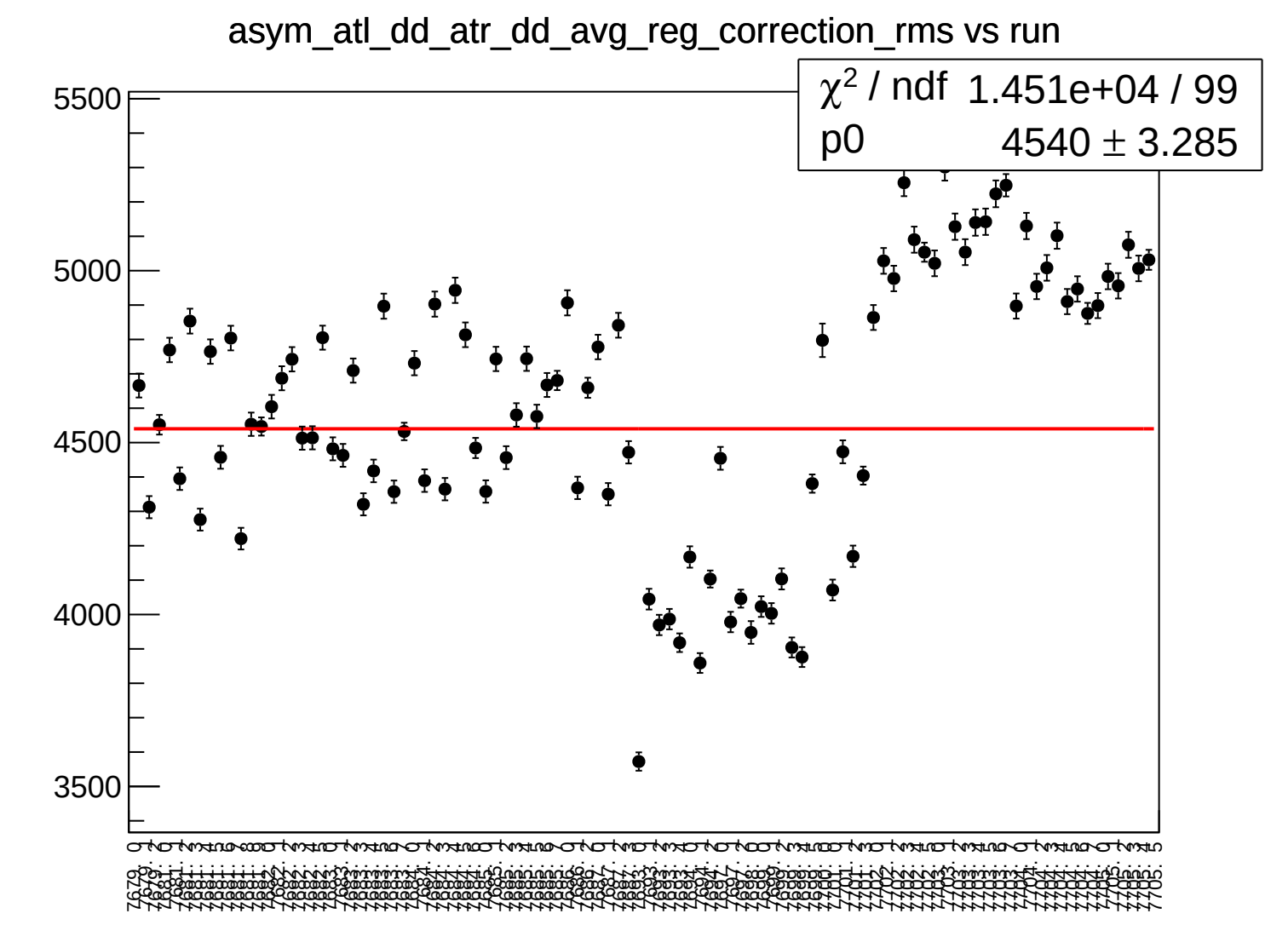

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.025e+06 / 99
p0 1.094e−10 ± 1.153e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

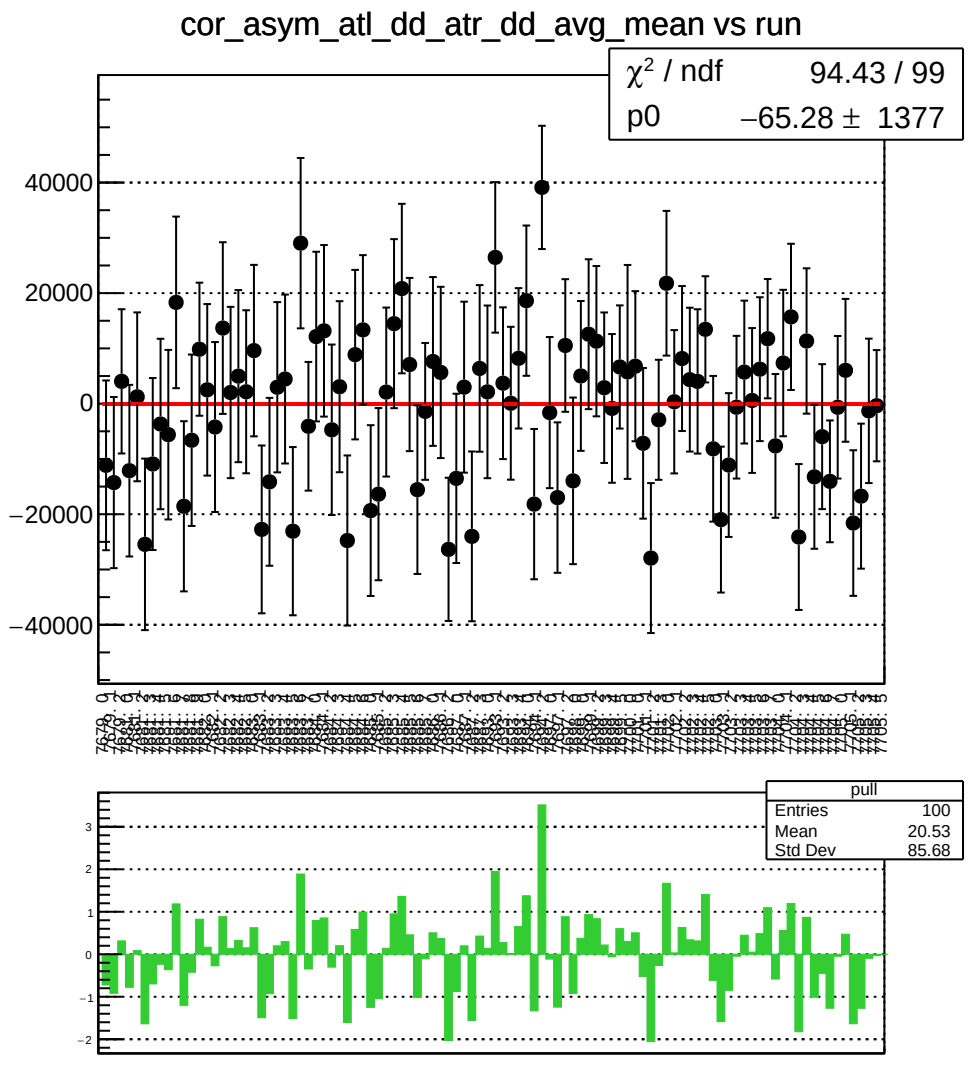

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 94.43 / 99
p0 −65.22 ± 1377
40000
20000
0
−20000
−40000
pull
Entries 100
Mean 20.54
Std Dev 85.68
3
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.0209
Std Dev 0.9715
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

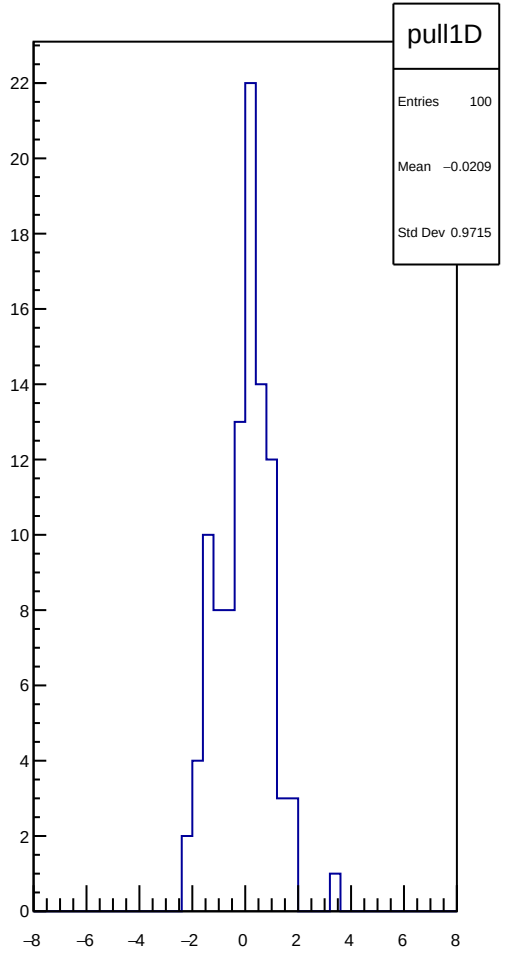

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1.089e+04 / 99
p0 1347 ± 0.9734
1500
1450
1400
1350
1300
1250
1200

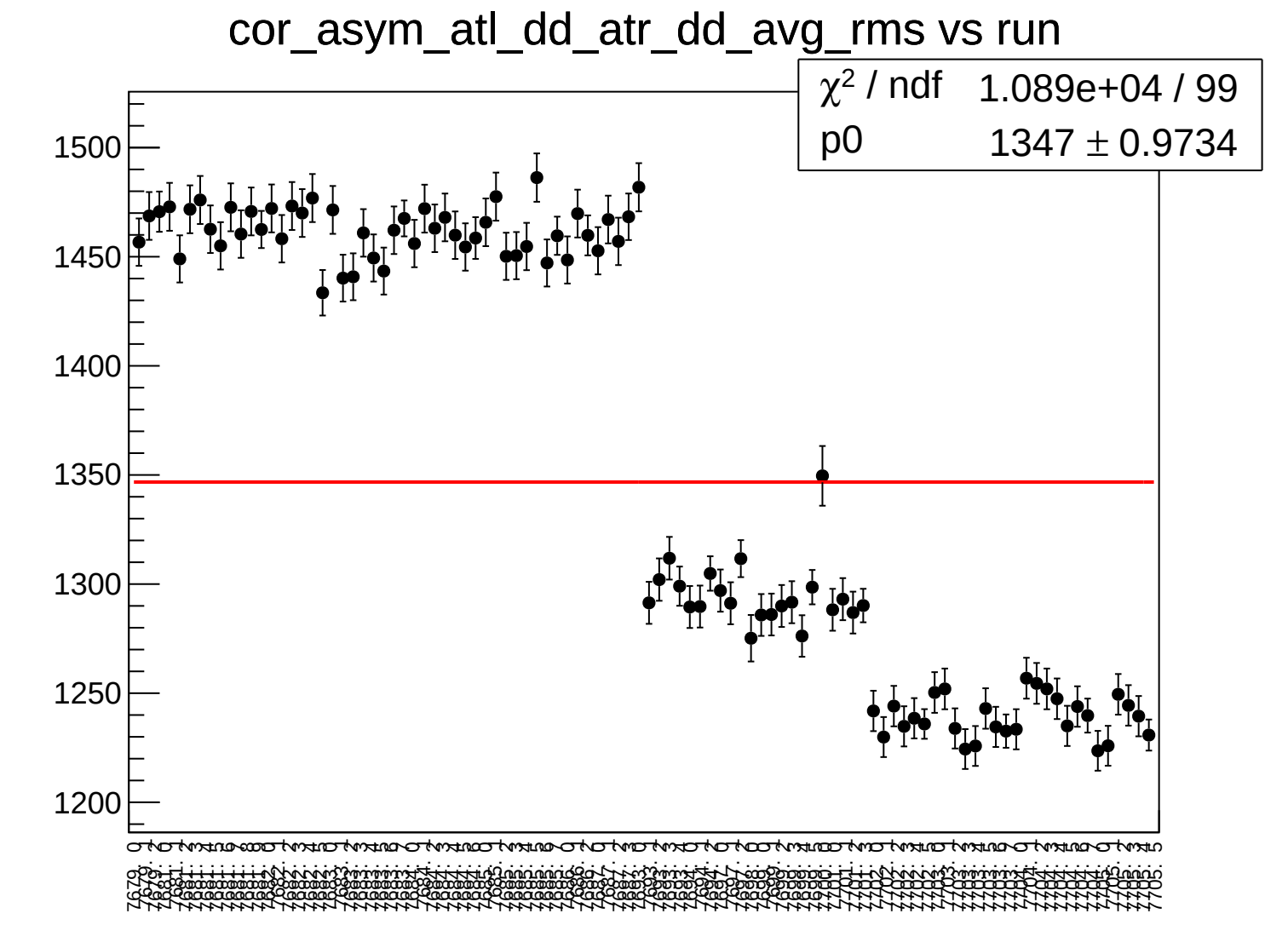

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 103.3 / 99
p0 −6558 ± 4645
pull
Entries 100
Mean 412.6
Std Dev 0

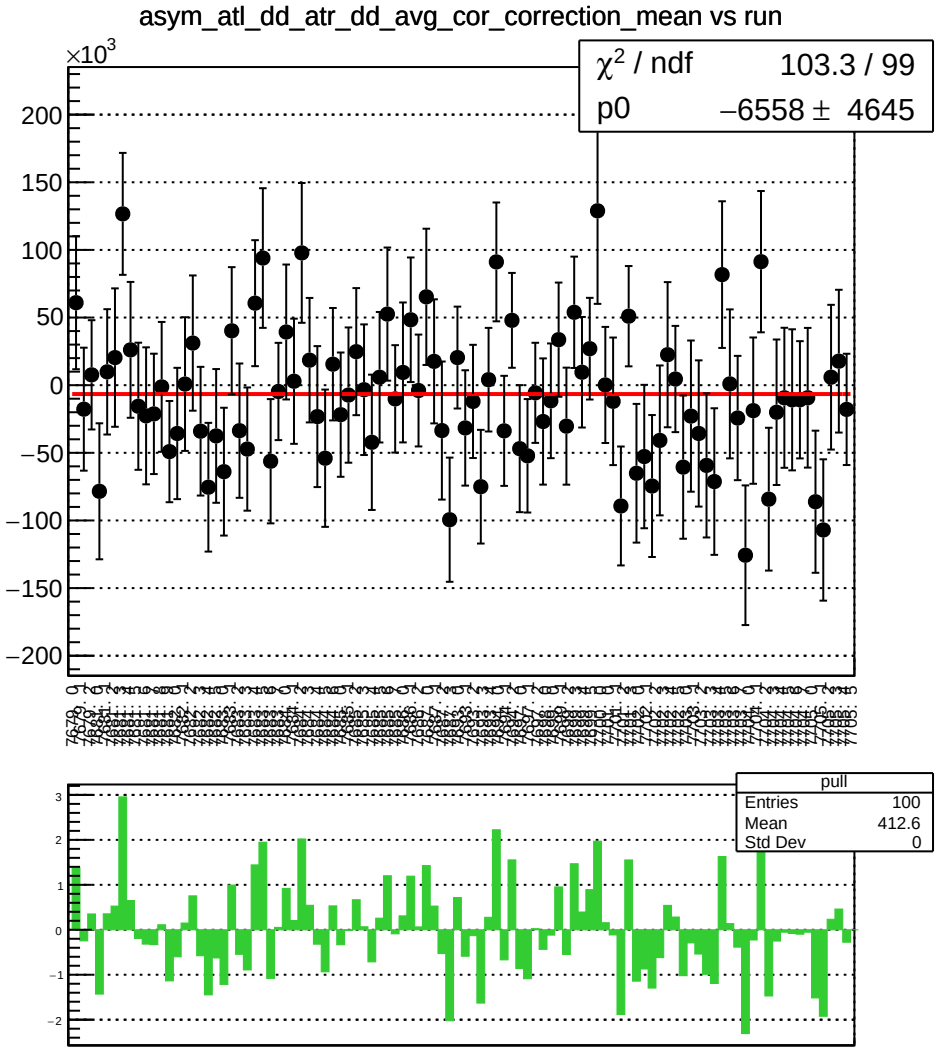

pull1D
Entries 100
Mean −0.01318
Std Dev 1.016

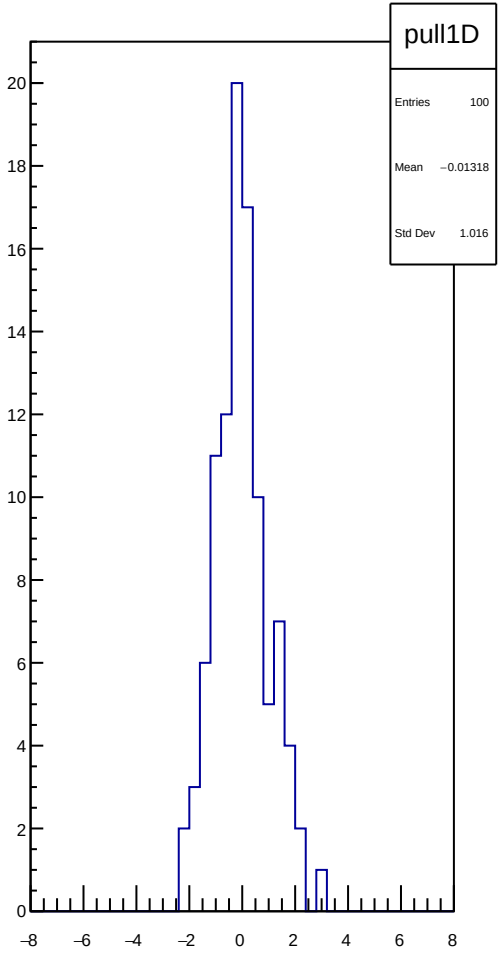

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.451e+04 / 99
p0 4540 ± 3.285
5500
5000
4500
4000
3500

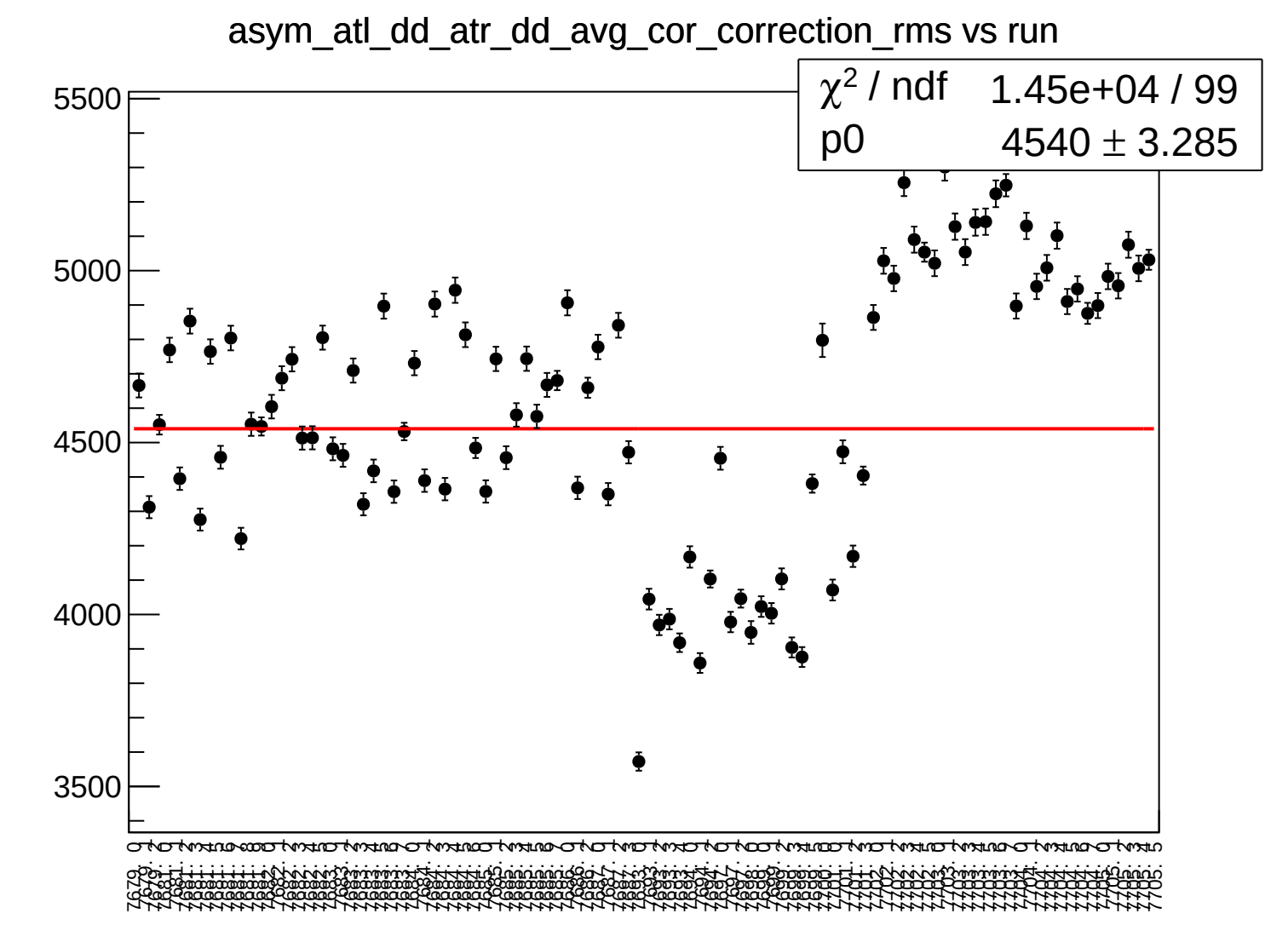

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 94.43 / 99
p0 −65.28 ± 1377
40000
20000
0
−20000
−40000
pull
Entries 100
Mean 20.53
Std Dev 85.68
3
2
1
0
−1
−2

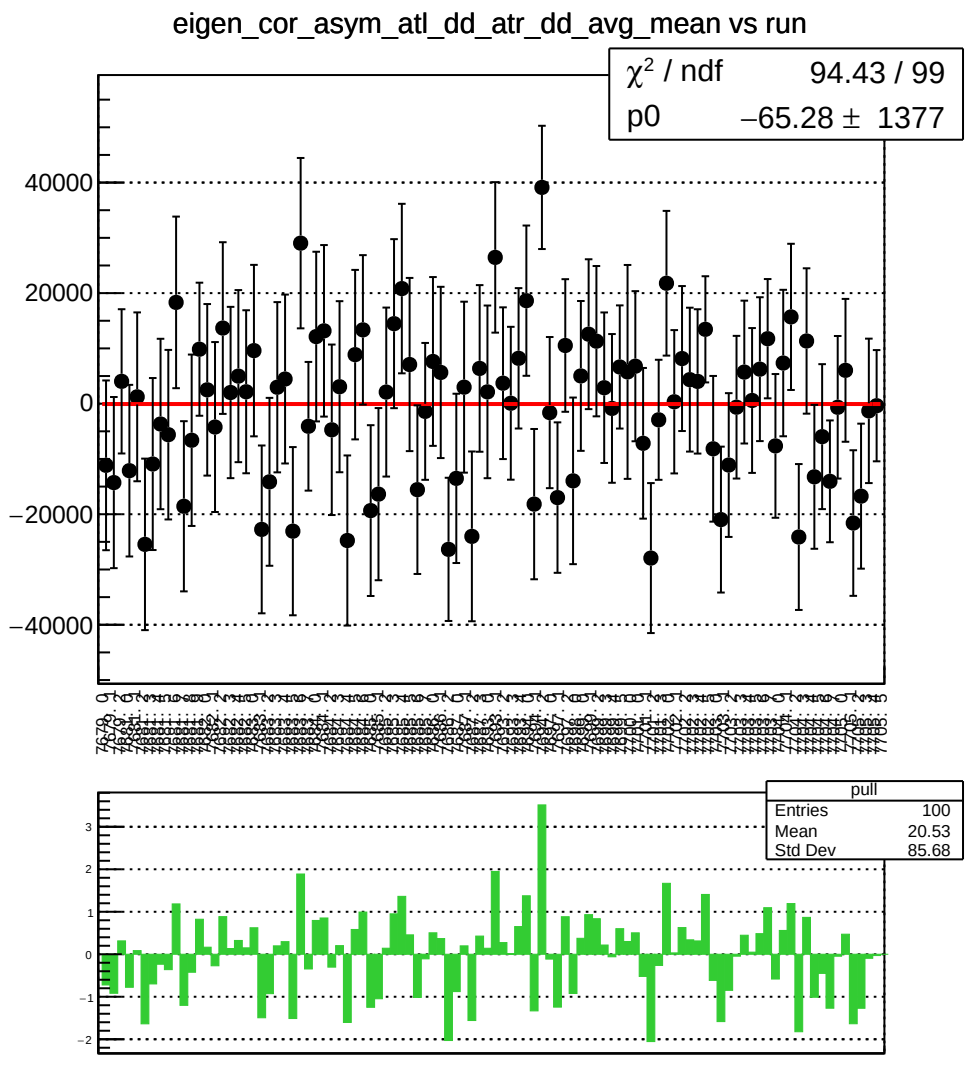

pull1D
Entries 100
Mean −0.0209
Std Dev 0.9715
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

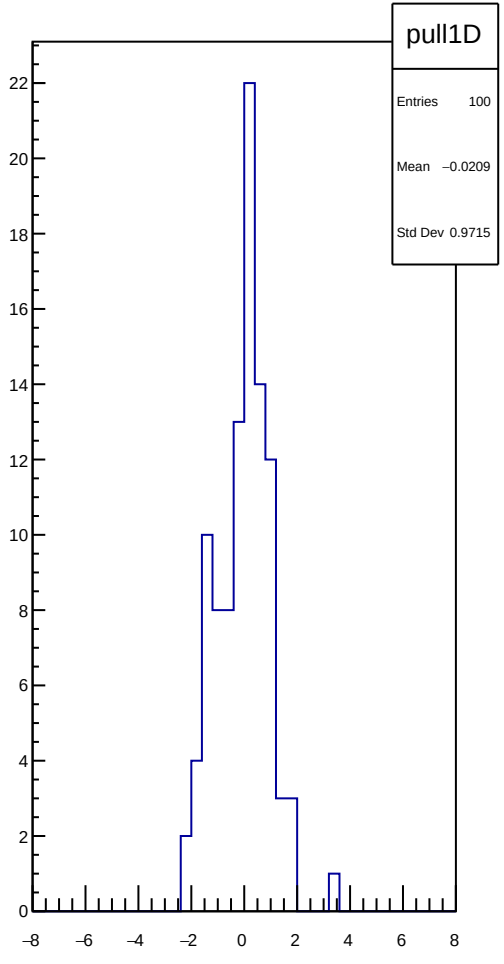

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1.089e+04 / 99
p0 1347 ± 0.9734
1500
1450
1400
1350
1300
1250
1200

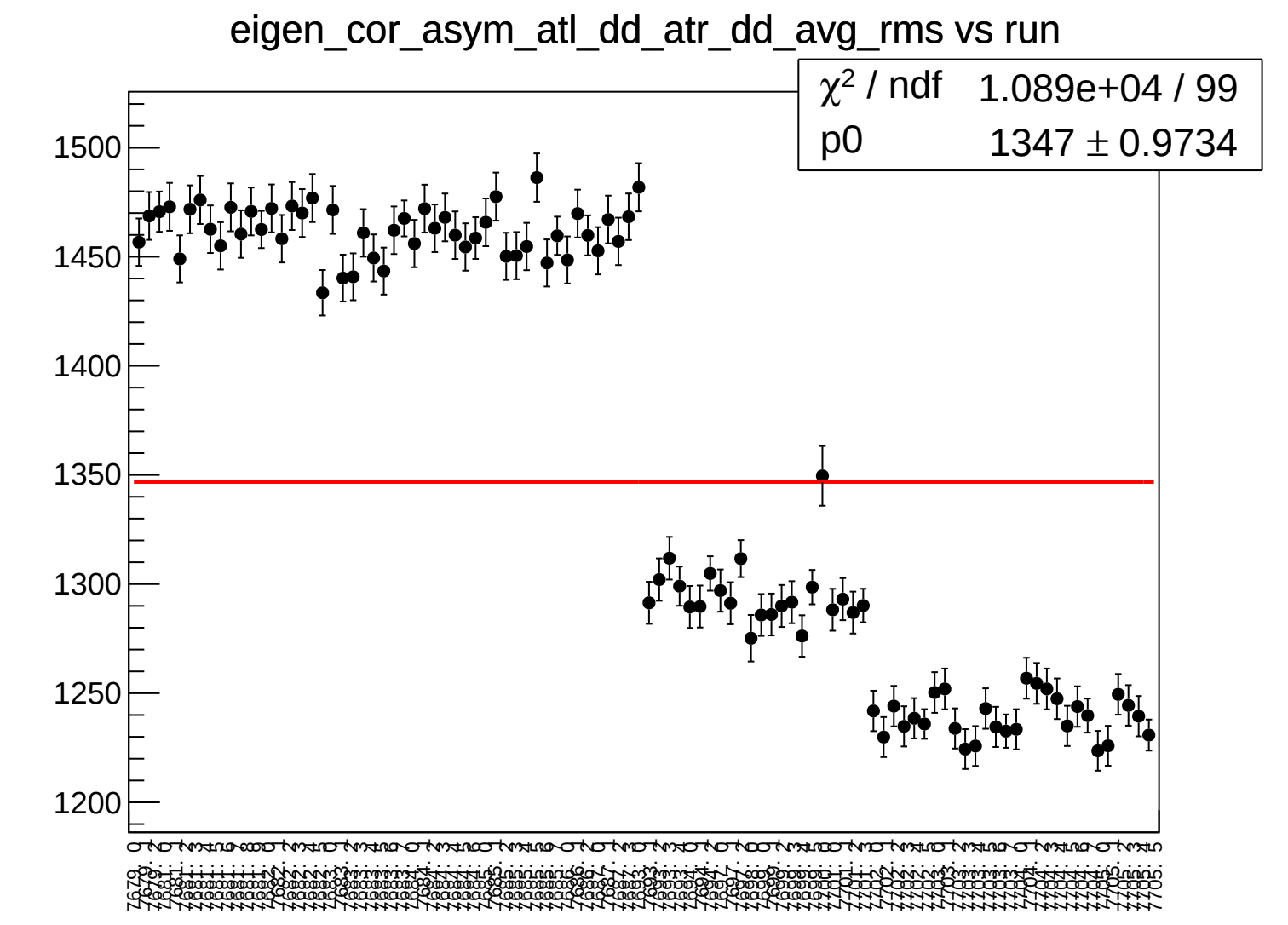

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 103.3 / 99
p0 −6558 ± 4645
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 100
Mean 412.6
Std Dev 0
3
2
1
0
−1
−2

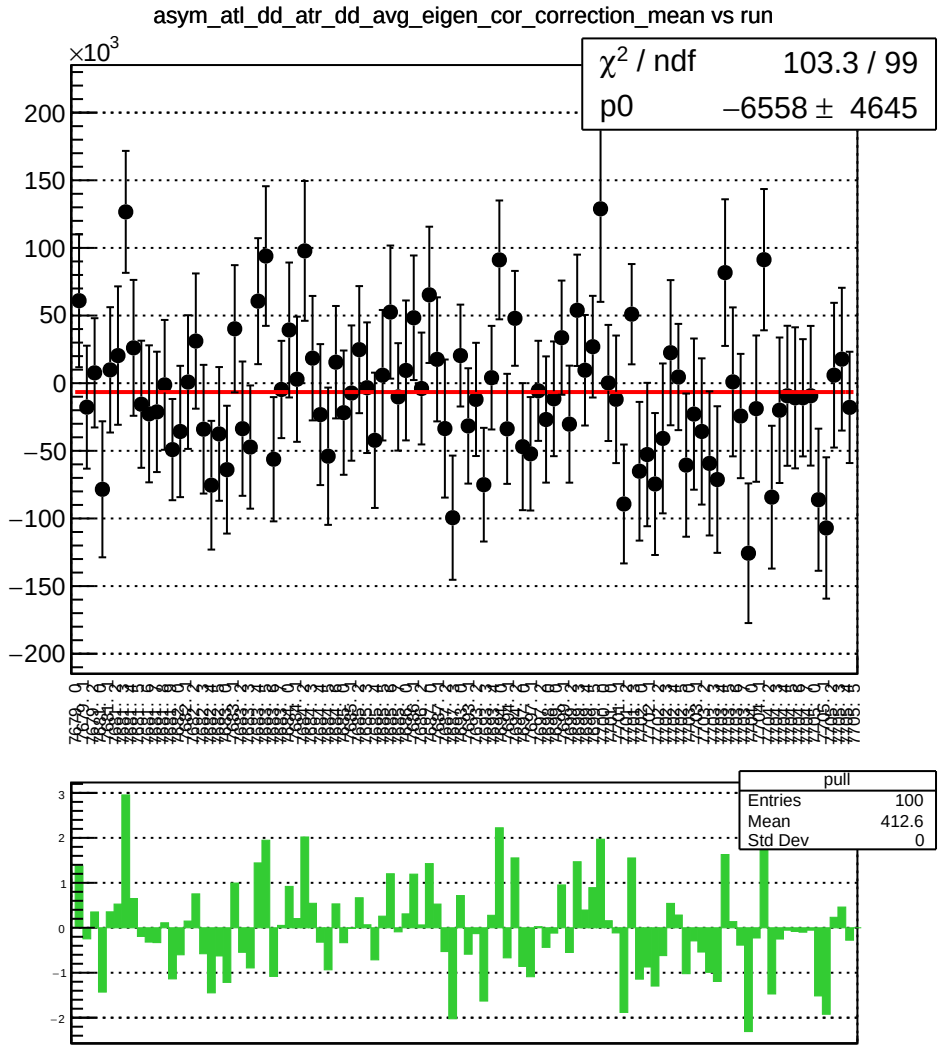

pull1D
Entries 100
Mean −0.01318
Std Dev 1.016
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

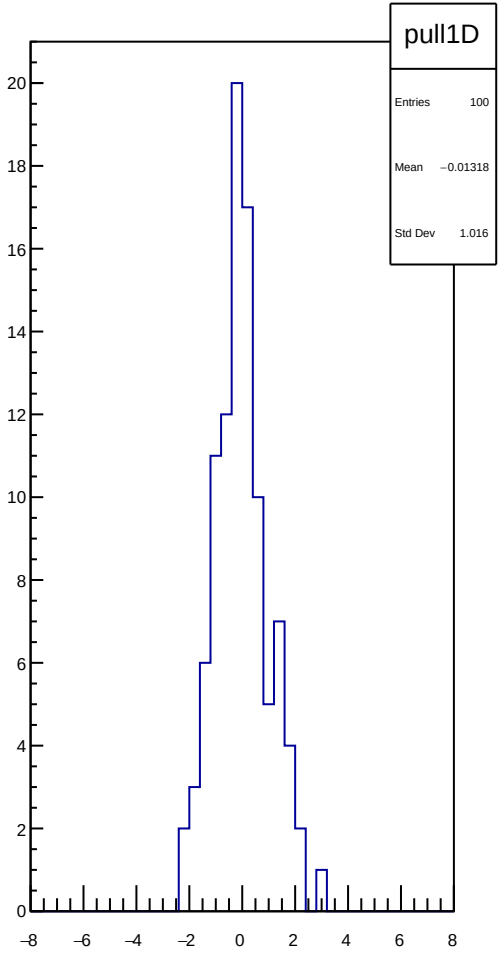

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.45e+04 / 99
p0 4540 ± 3.285
5500
5000
4500
4000
3500

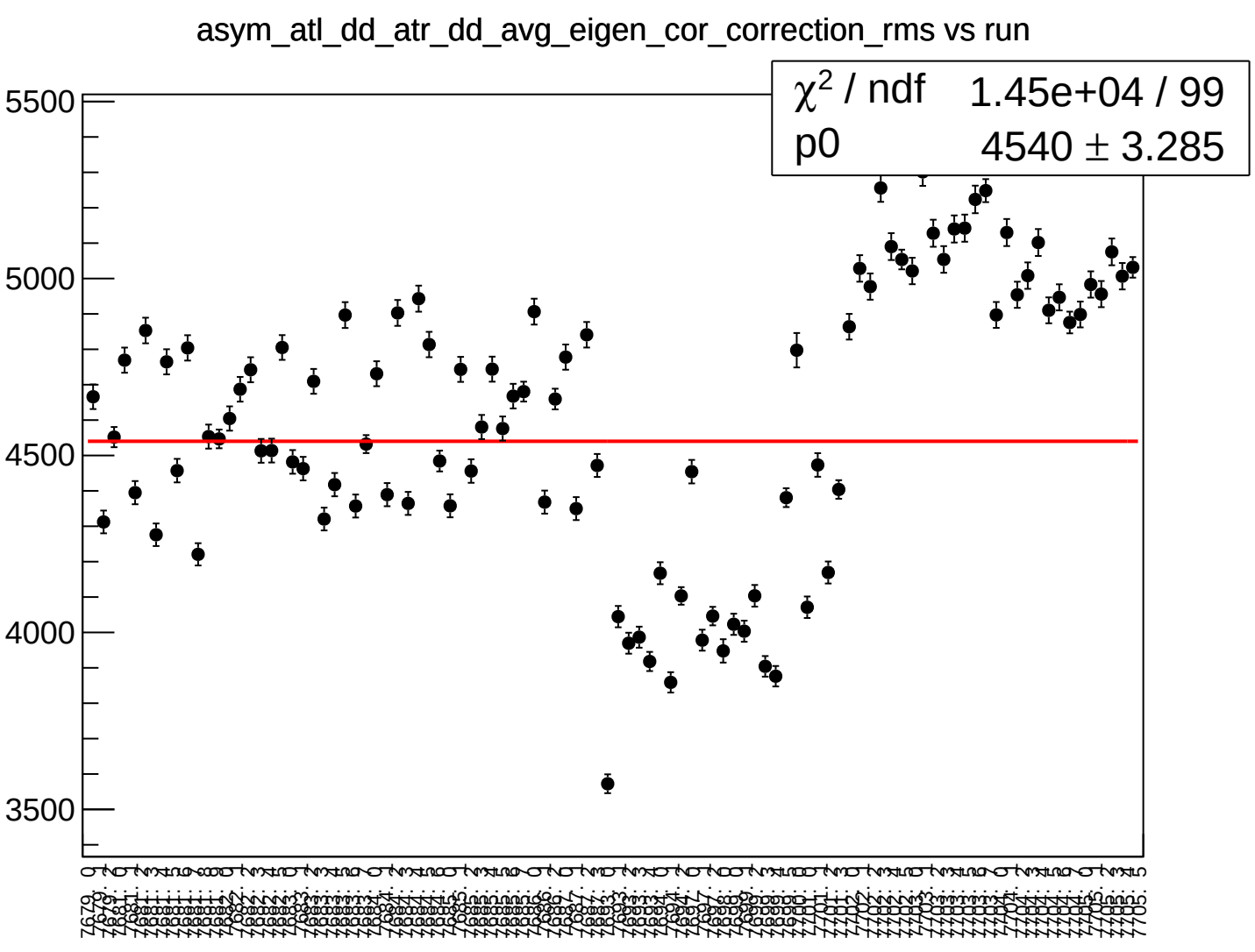

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 94.43 / 99
p0 −65.28 ± 1377
40000
20000
0
−20000
−40000
pull
Entries 100
Mean 20.53
Std Dev 85.68
3
2
1
0
−1
−2

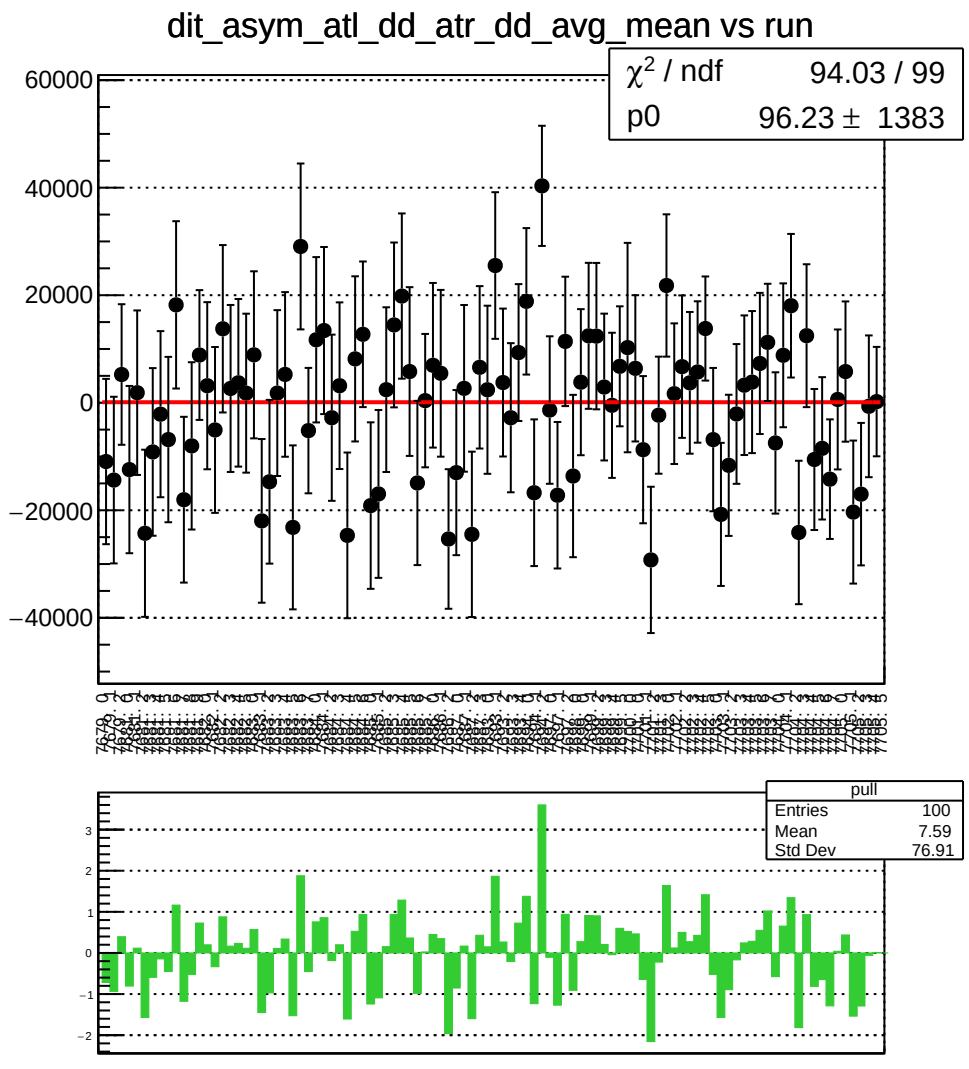

pull1D
Entries 100
Mean −0.0209
Std Dev 0.9715
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

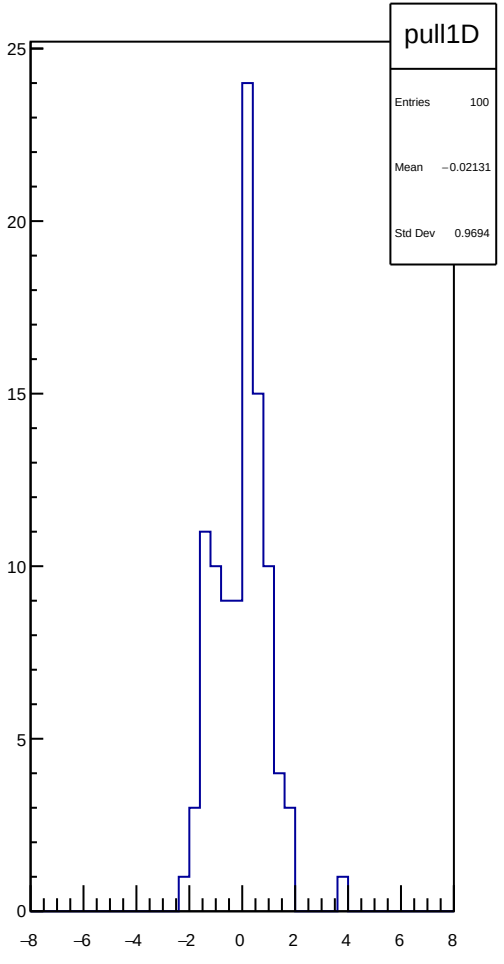

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1.089e+04 / 99
p0 1347 ± 0.9734
1500
1450
1400
1350
1300
1250
1200

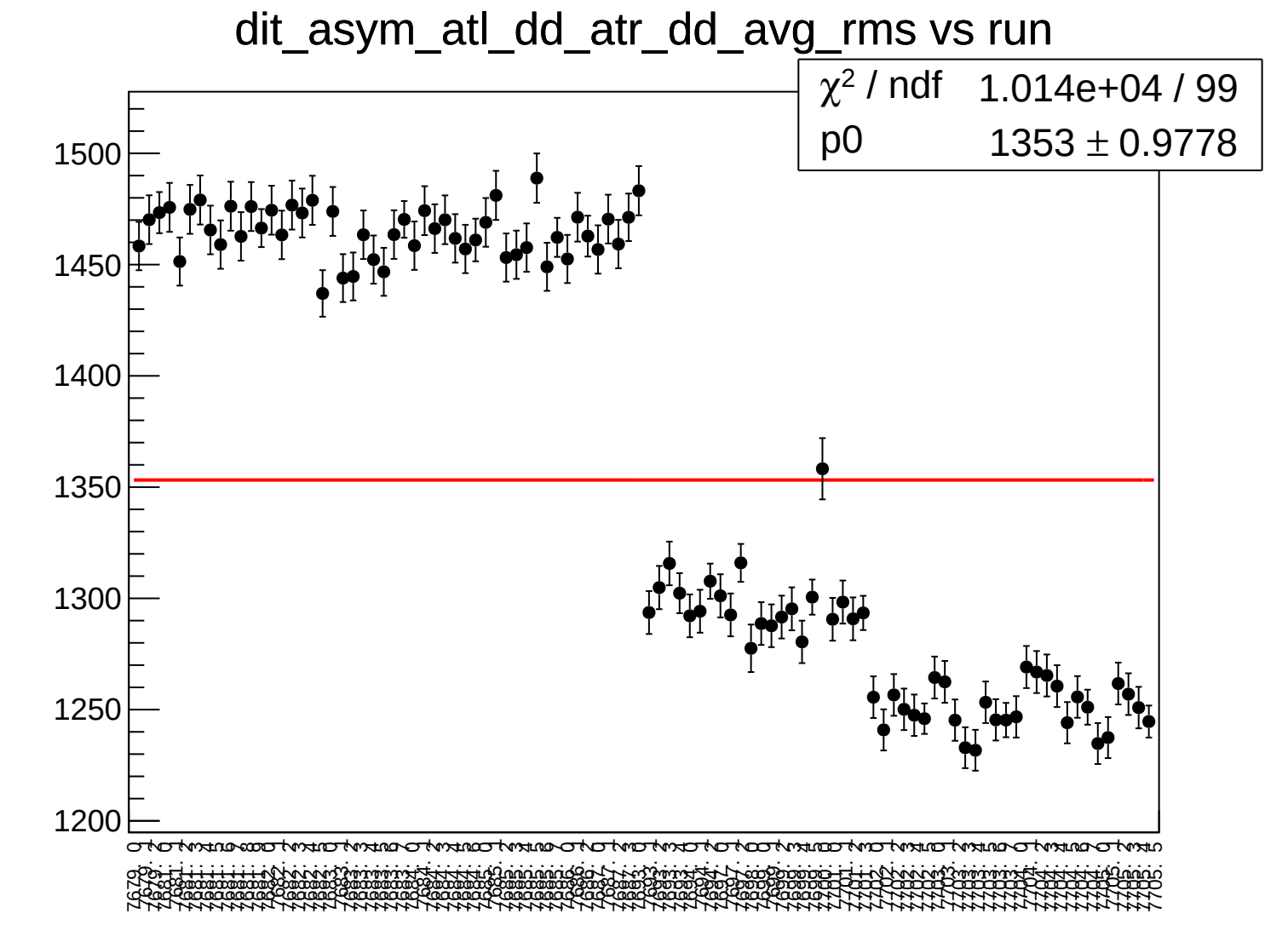

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 103.3 / 99
p0 −6558 ± 4645
pull
Entries 100
Mean 412.6
Std Dev 0

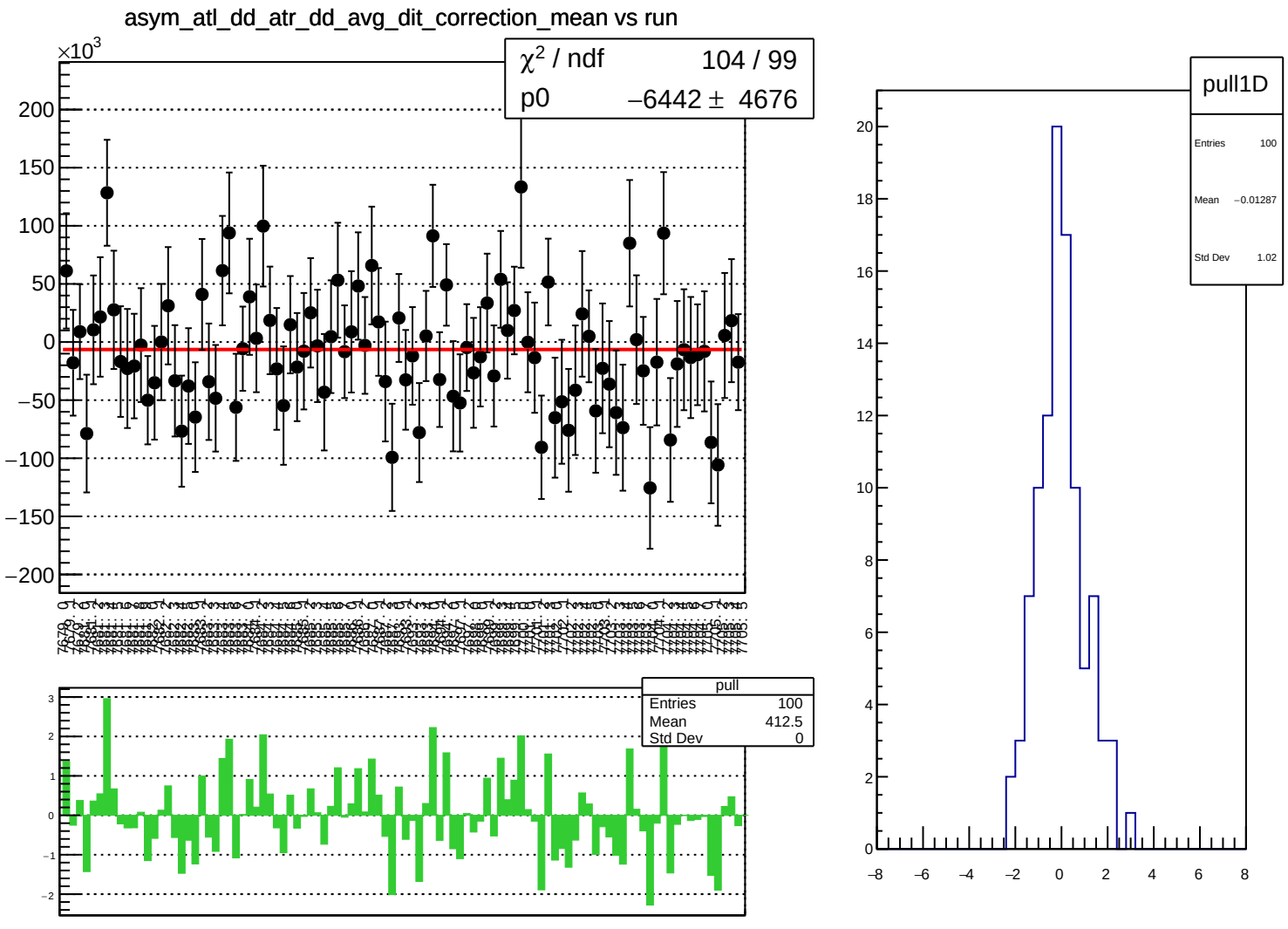

pull1D
Entries 100
Mean −0.01318
Std Dev 1.016

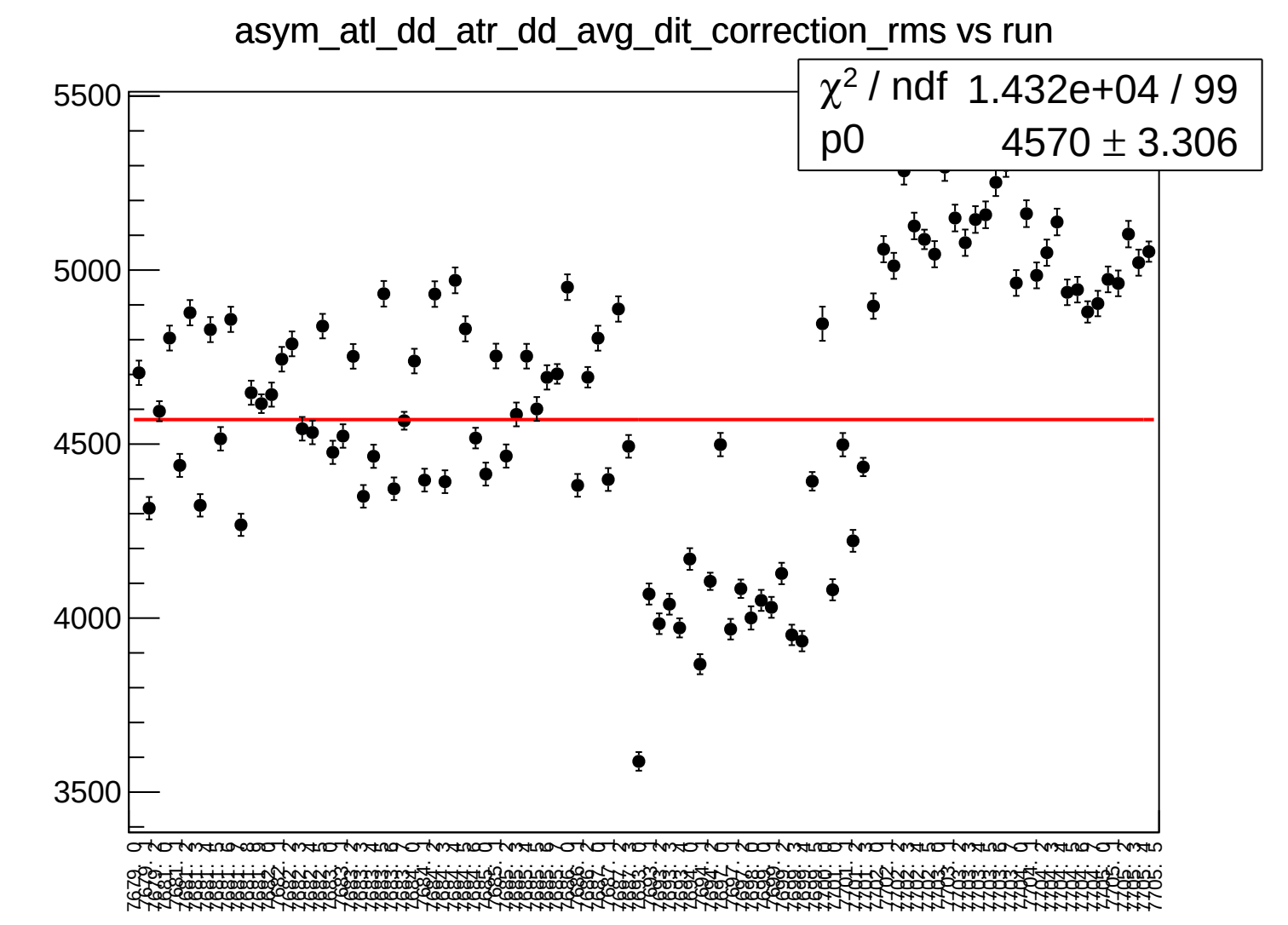

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.45e+04 / 99
p0 4540 ± 3.285
5500
5000
4500
4000
3500

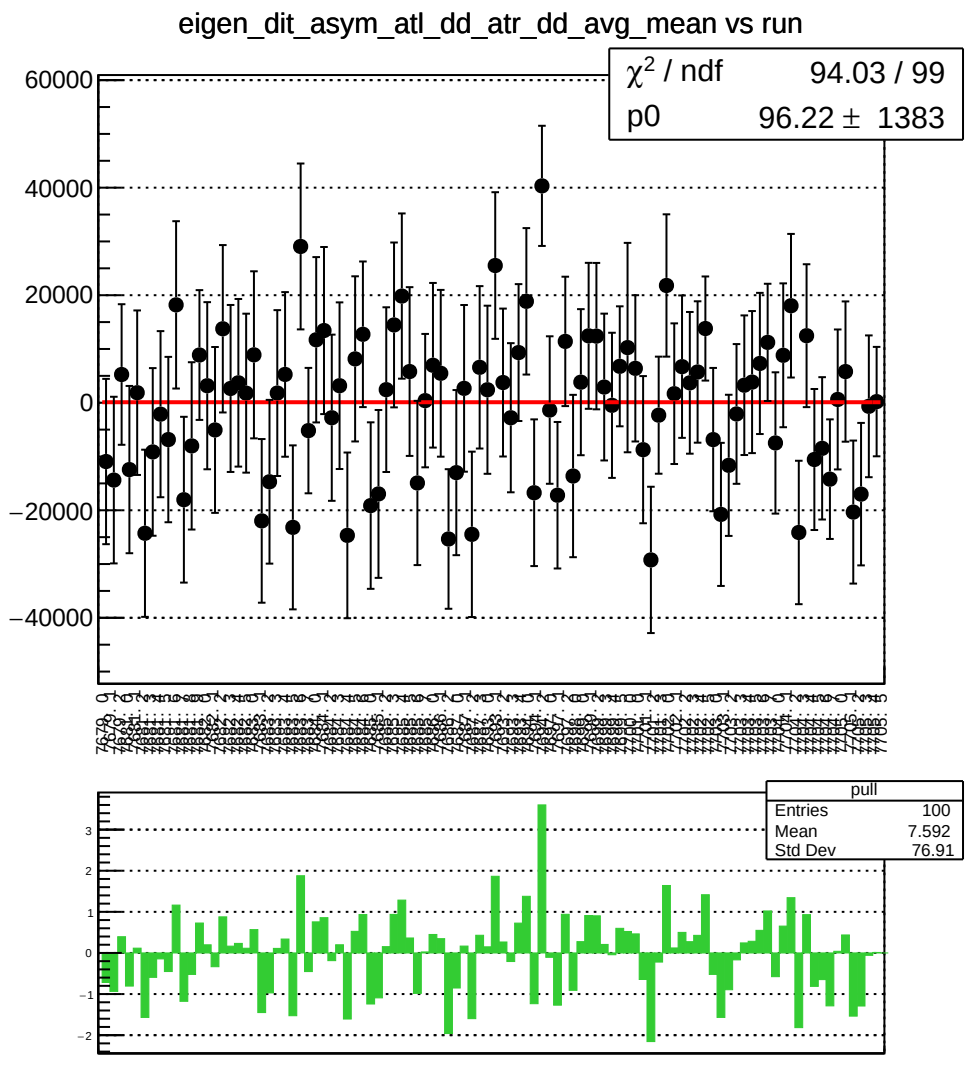

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 94.03 / 99
p0 96.23 ± 1383
60000
40000
20000
0
−20000
−40000
pull
Entries 100
Mean 7.59
Std Dev 76.91
3
2
1
0
−1
−2

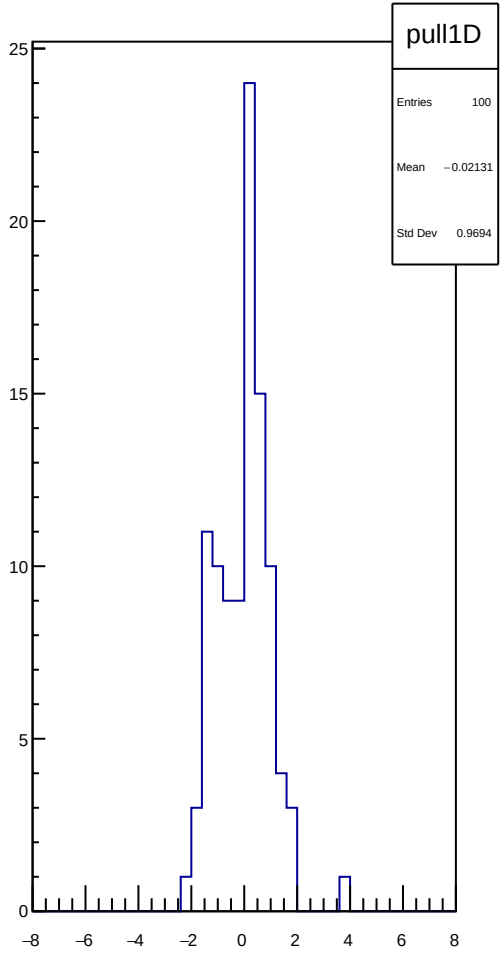

pull1D
Entries 100
Mean −0.02131
Std Dev 0.9694
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

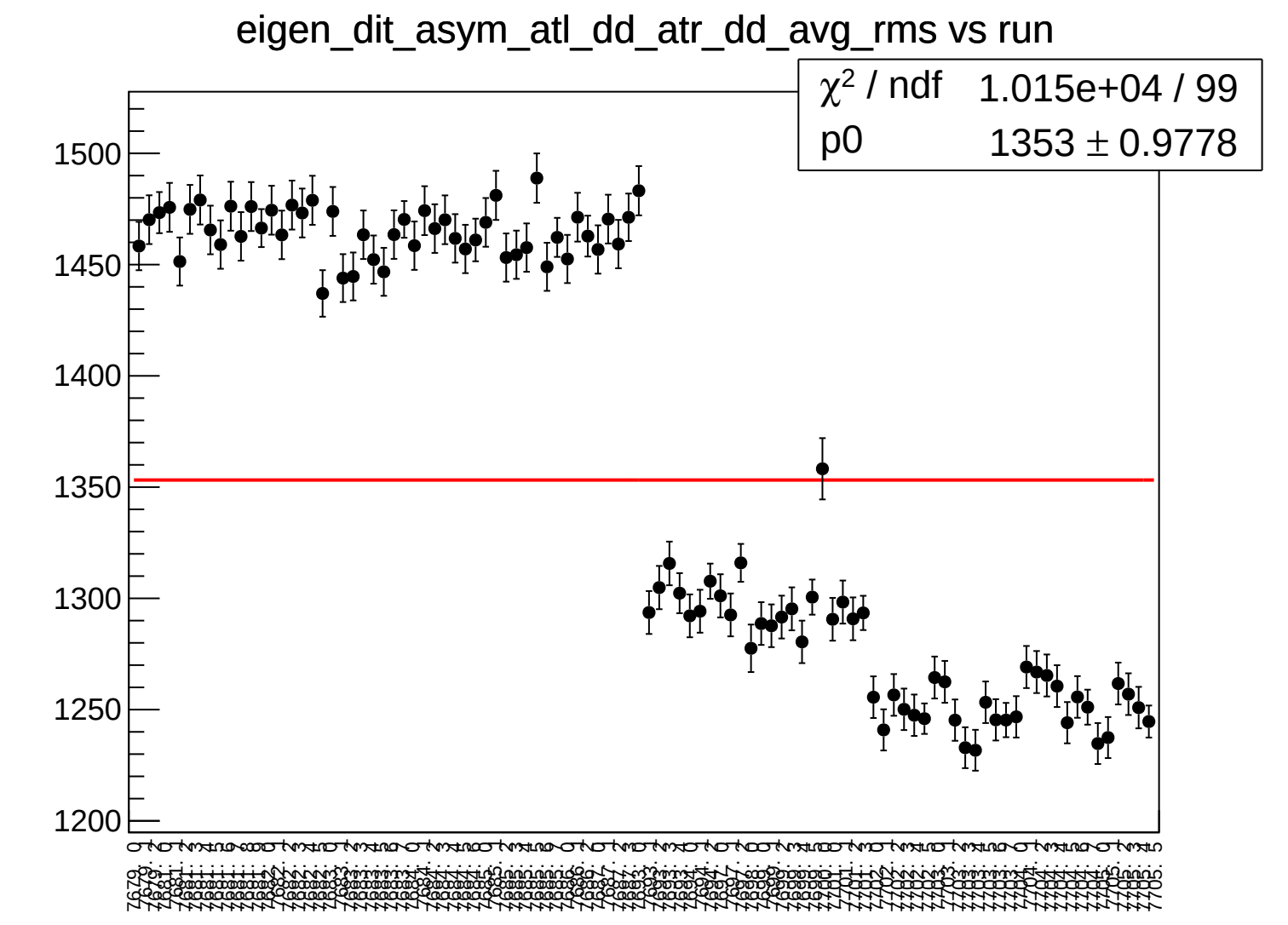

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1.014e+04 / 99
p0 1353 ± 0.9778
1500
1450
1400
1350
1300
1250
1200

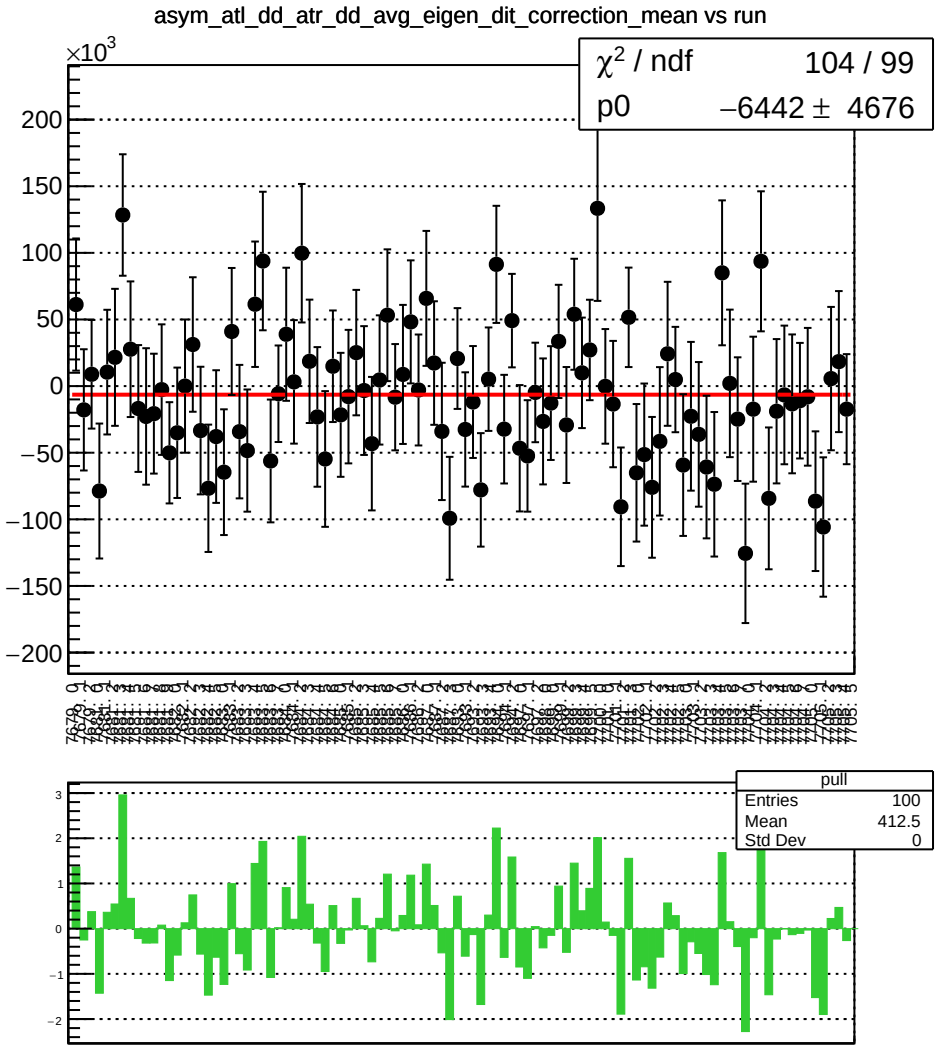

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 104 / 99
p0 −6442 ± 4676
pull
Entries 100
Mean 412.5
Std Dev 0
pull1D
Entries 100
Mean −0.01287
Std Dev 1.02

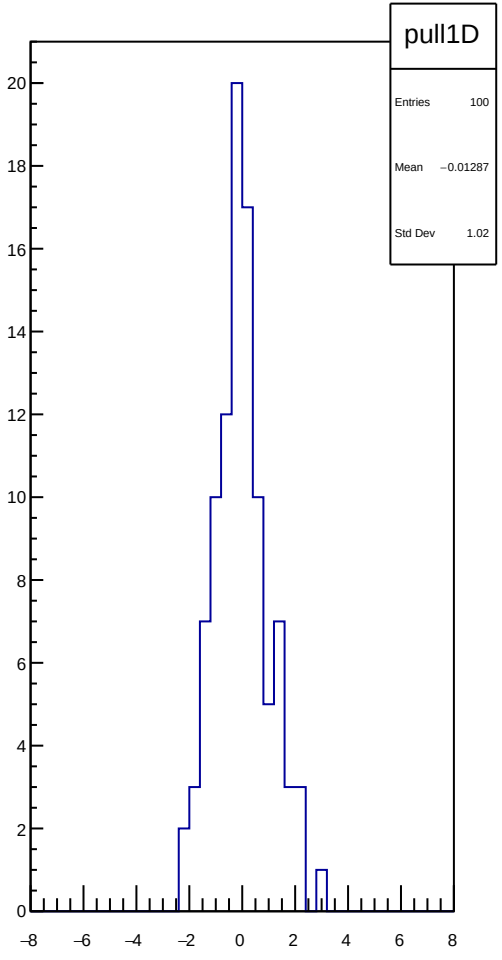

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.432e+04 / 99
p0 4570 ± 3.306
5500
5000
4500
4000
3500

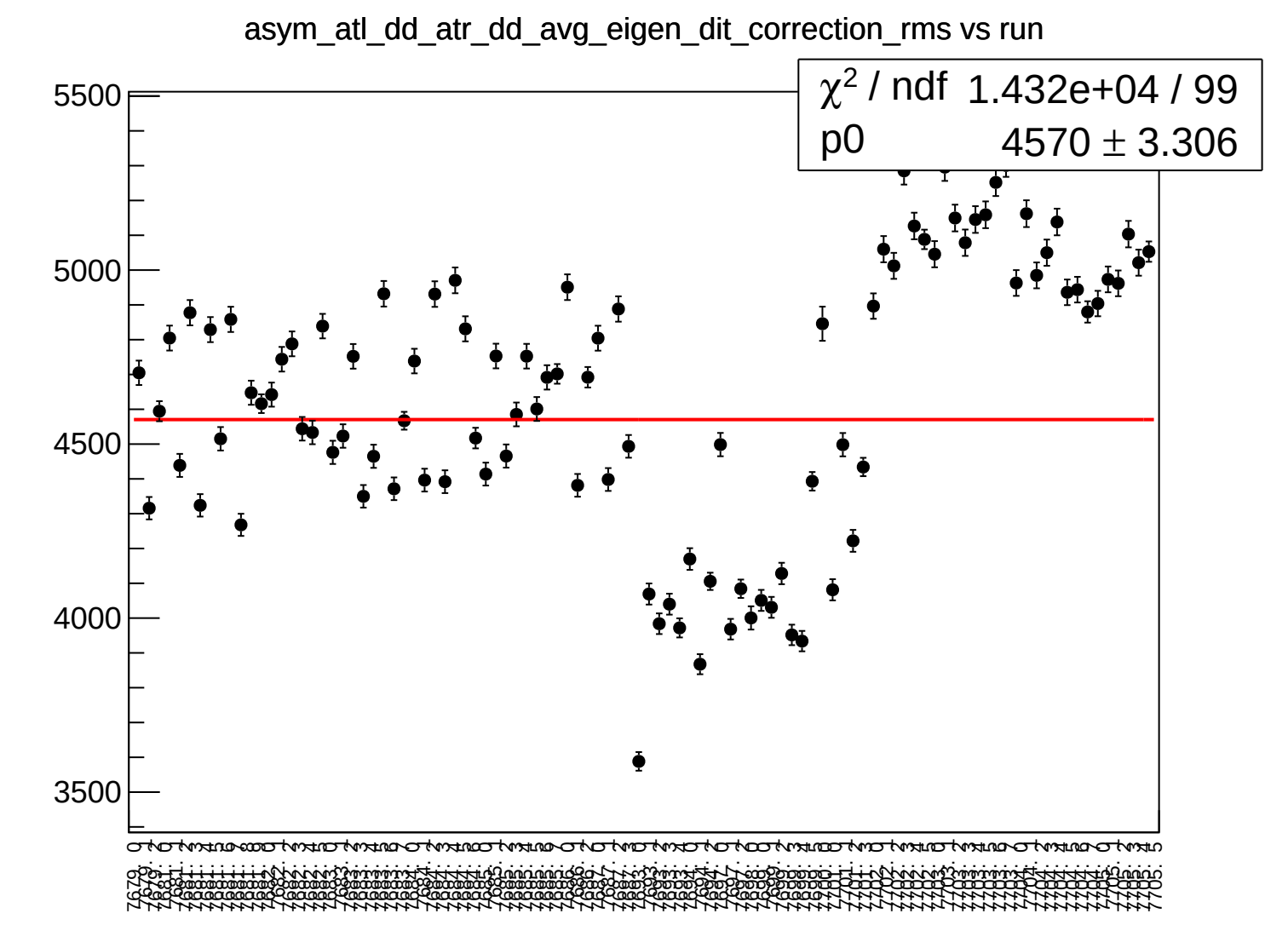

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 94.03 / 99
p0 96.22 ± 1383
60000
40000
20000
0
−20000
−40000
pull
Entries 100
Mean 7.592
Std Dev 76.91
3
2
1
0
−1
−2

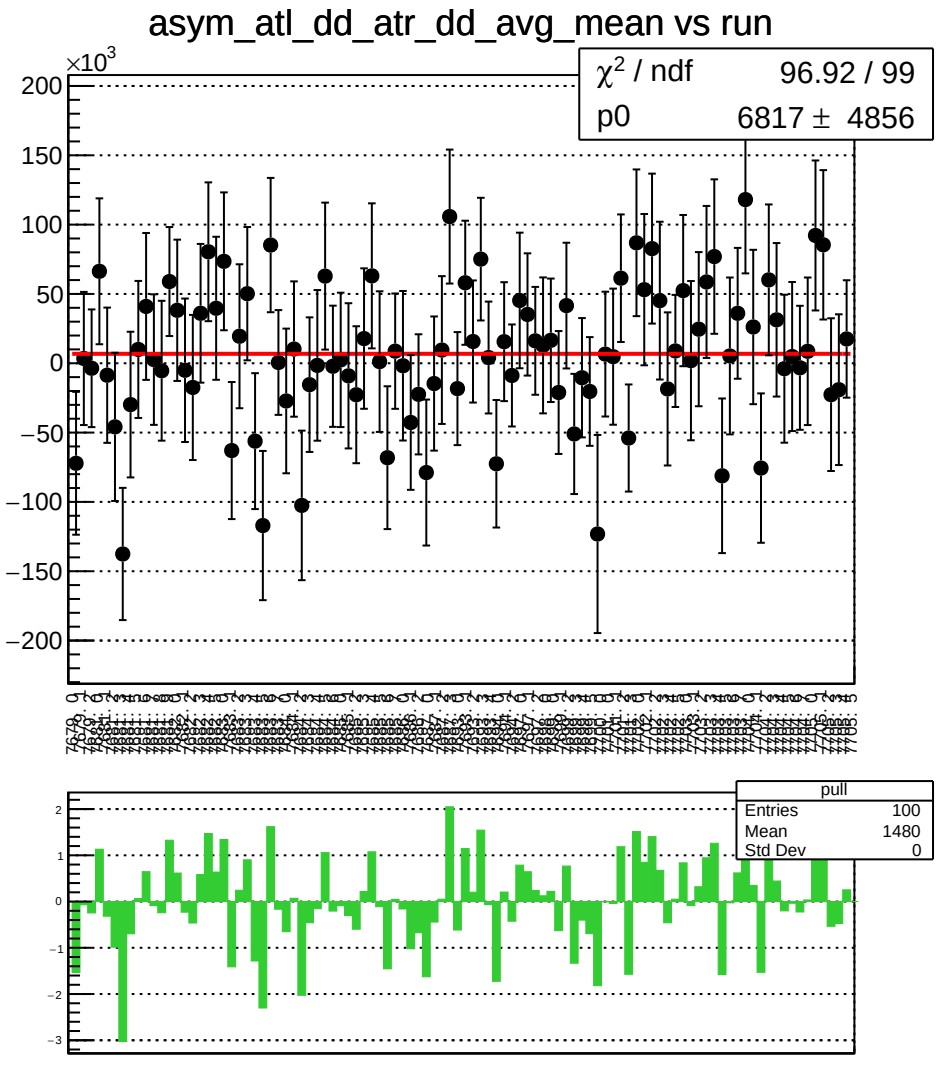

pull1D
Entries 100
Mean −0.02131
Std Dev 0.9694
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

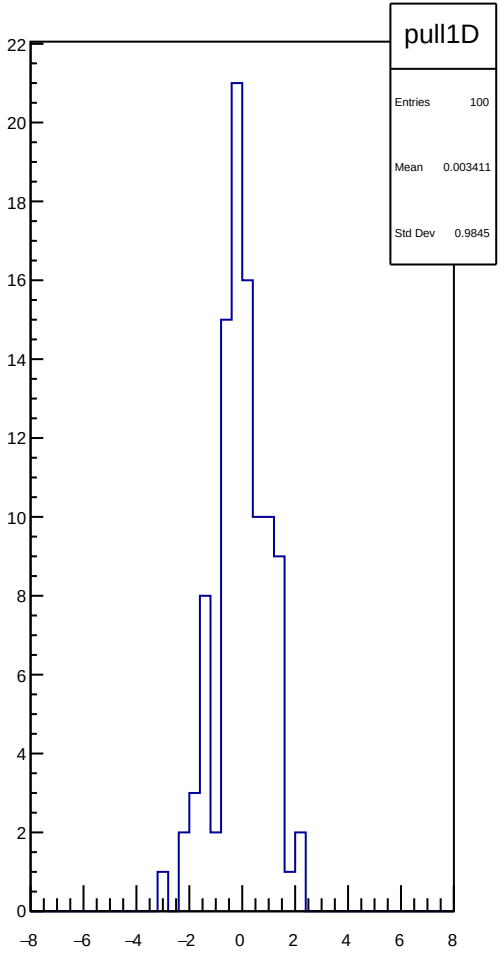

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1.015e+04 / 99
p0 1353 ± 0.9778
1500
1450
1400
1350
1300
1250
1200

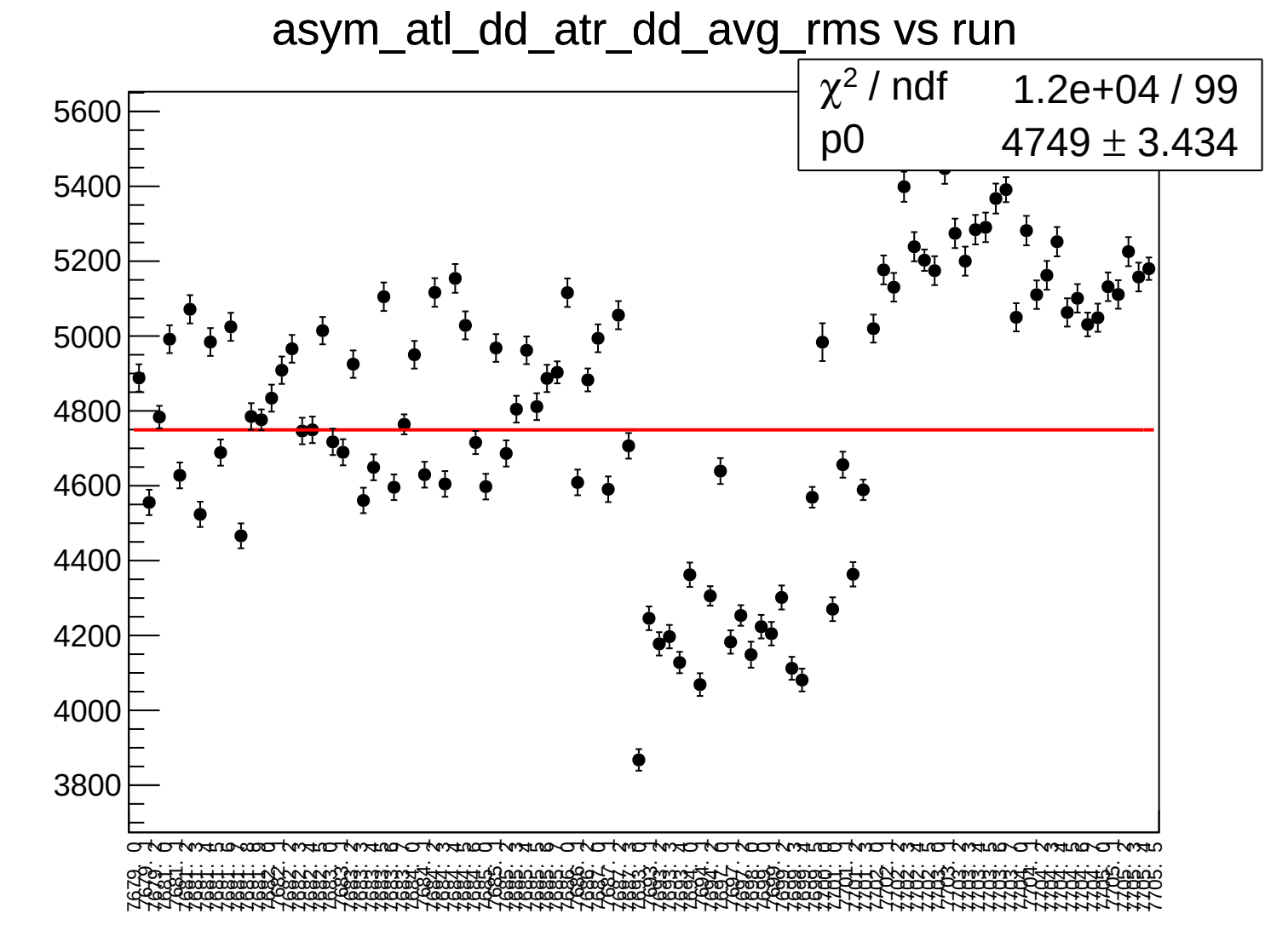

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 104 / 99
p0 −6442 ± 4676
pull
Entries 100
Mean 412.5
Std Dev 0

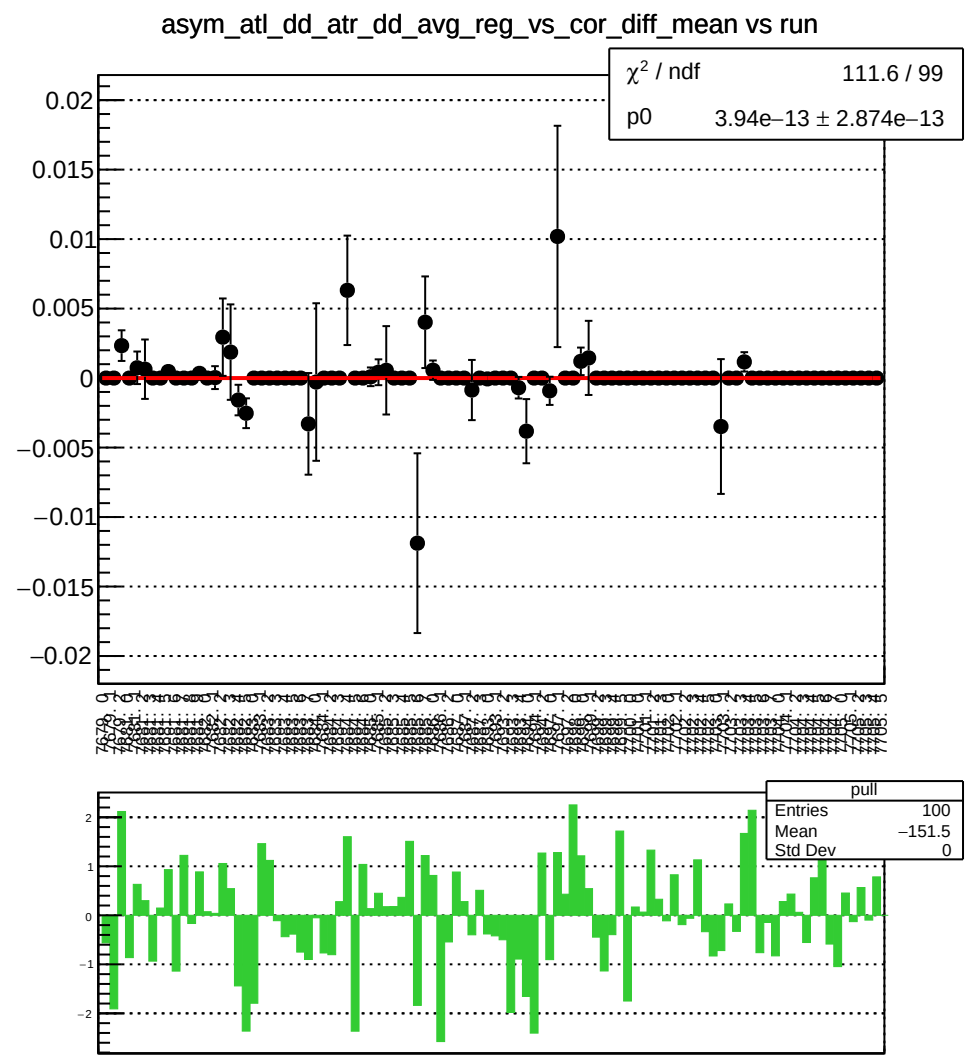

pull1D
Entries 100
Mean −0.01287
Std Dev 1.02

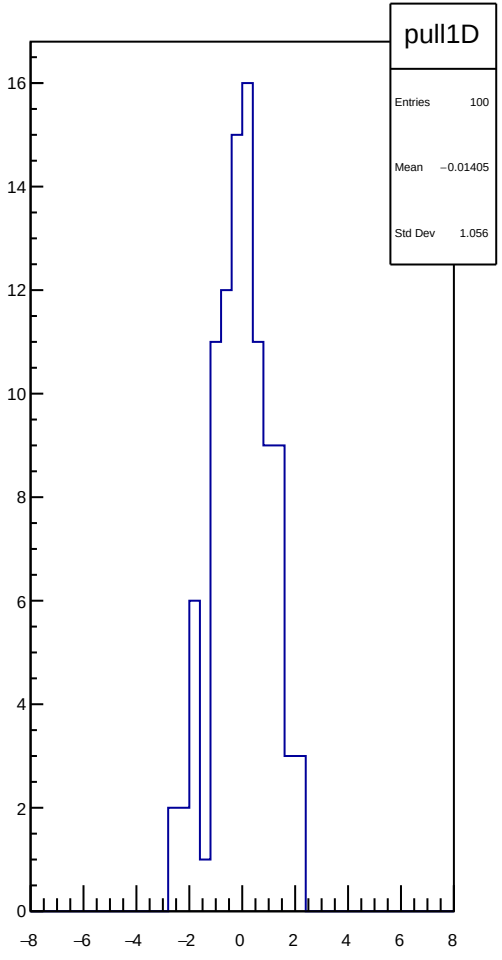

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.432e+04 / 99
p0 4570 ± 3.306
5500
5000
4500
4000
3500

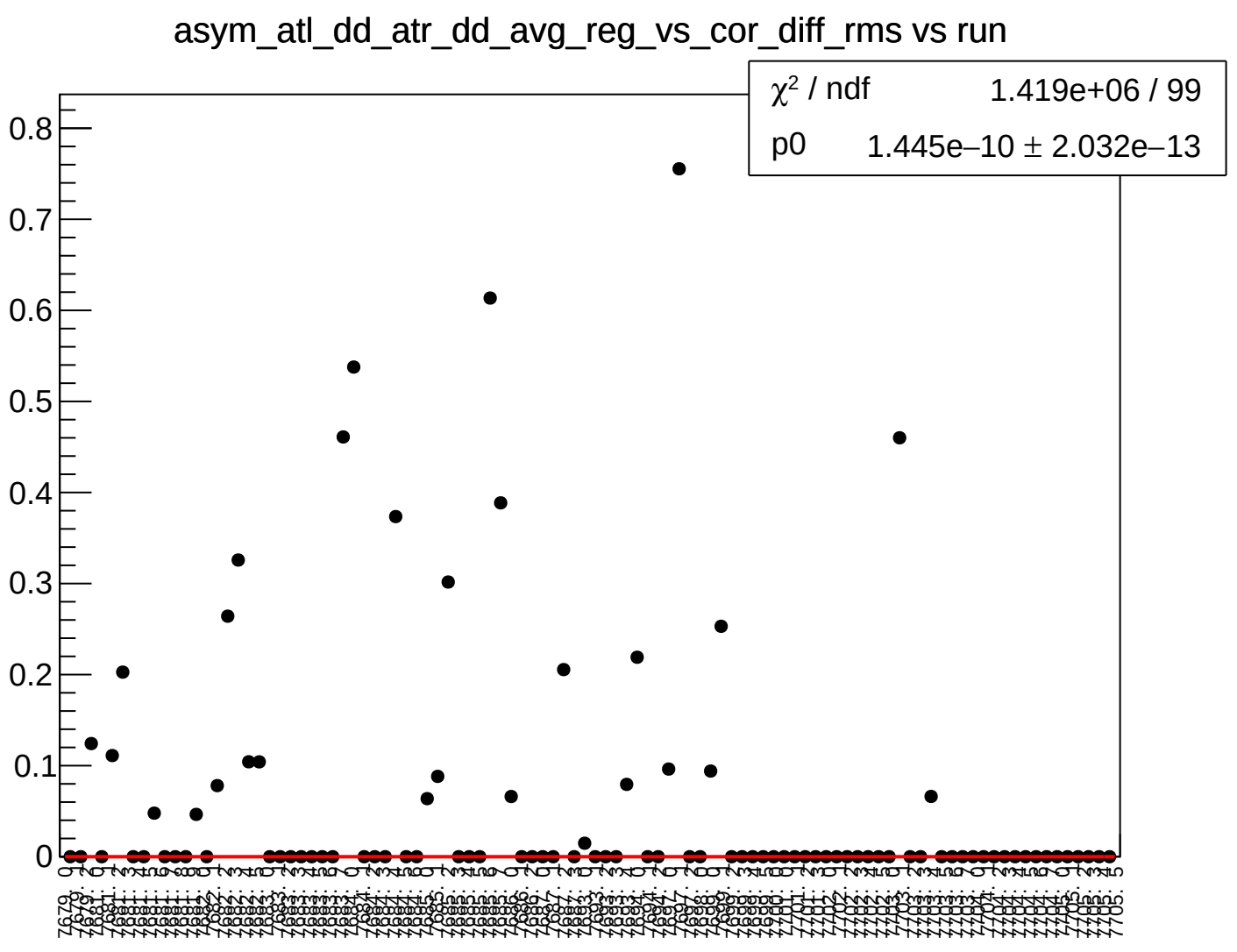

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ^2 / ndf 96.92 / 99
p0 6817 ± 4856
pull
Entries 100
Mean 1480
Std Dev 0

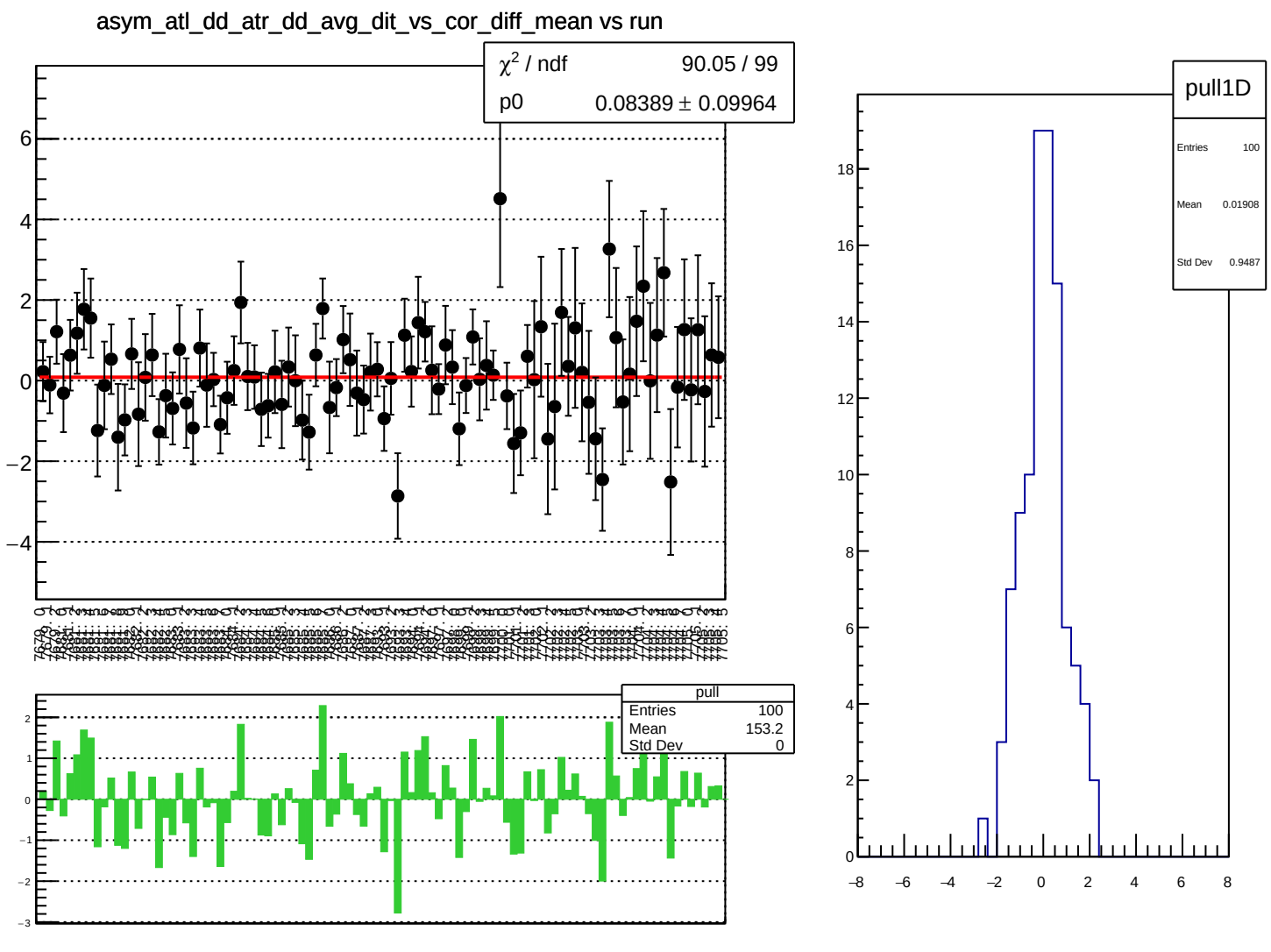

pull1D
Entries 100
Mean 0.003411
Std Dev 0.9845

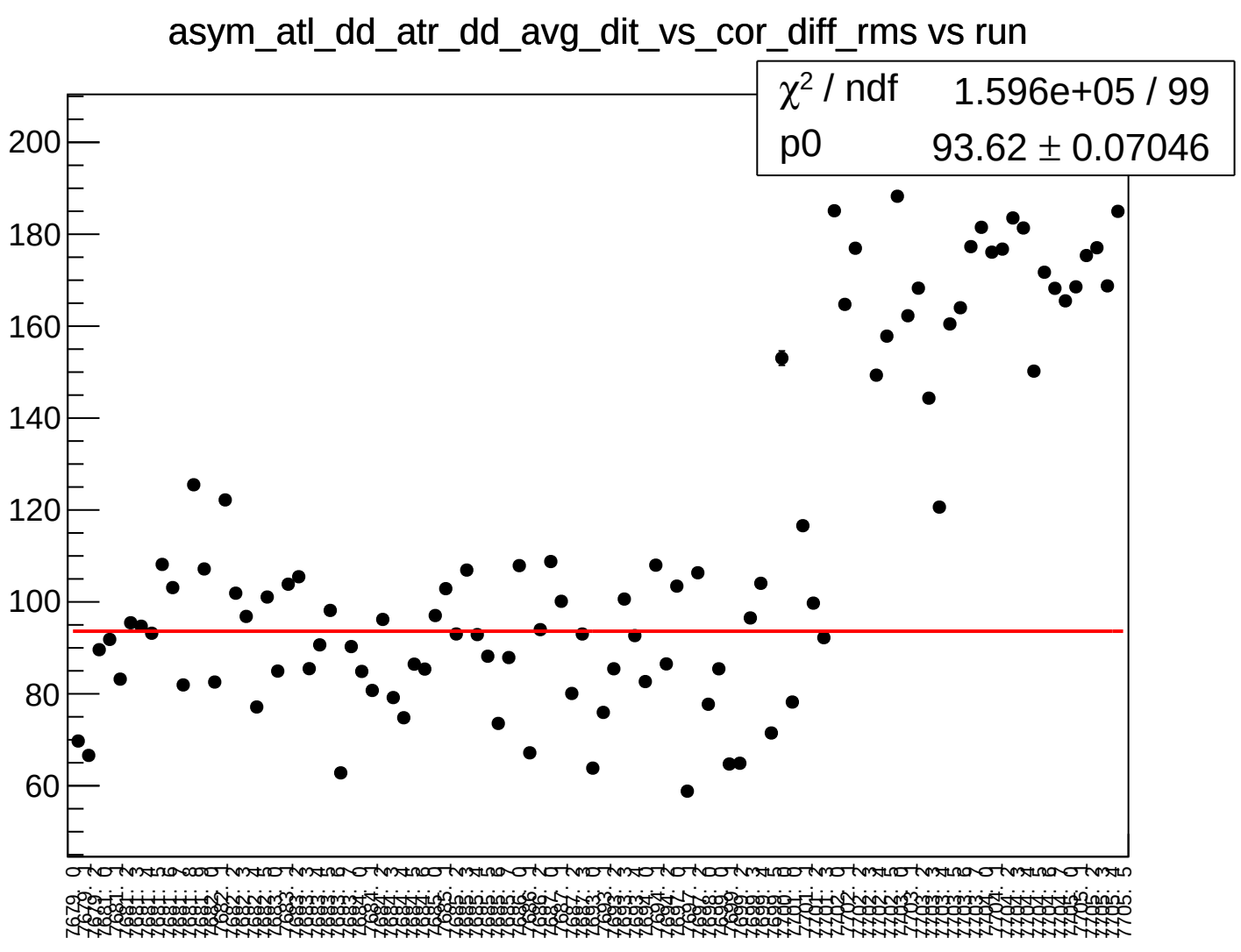

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1.2e+04 / 99
p0 4749 ± 3.434
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

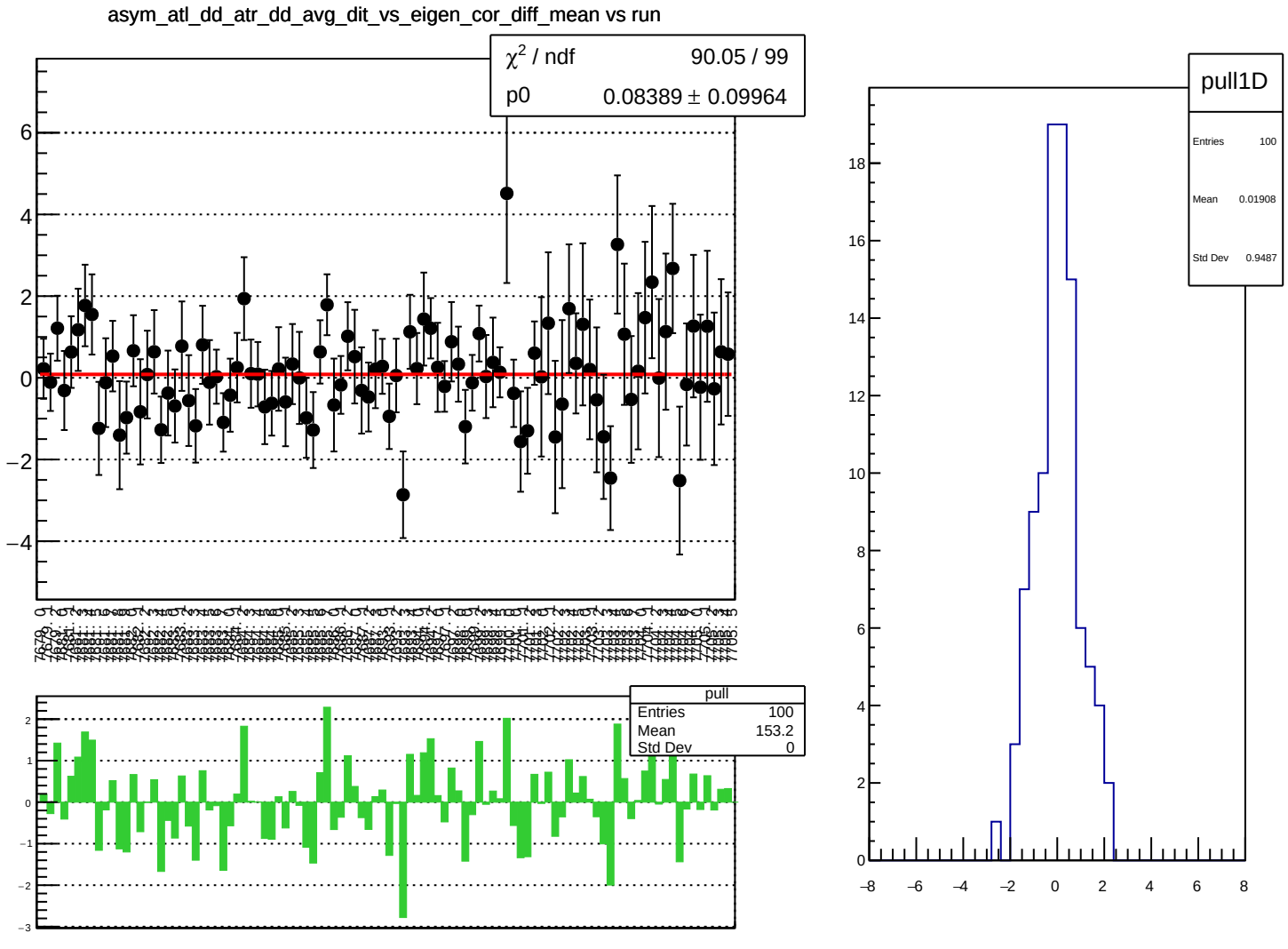

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 111.6 / 99
p0 3.94e−13 ± 2.874e−13
pull
Entries 100
Mean −151.5
Std Dev 0

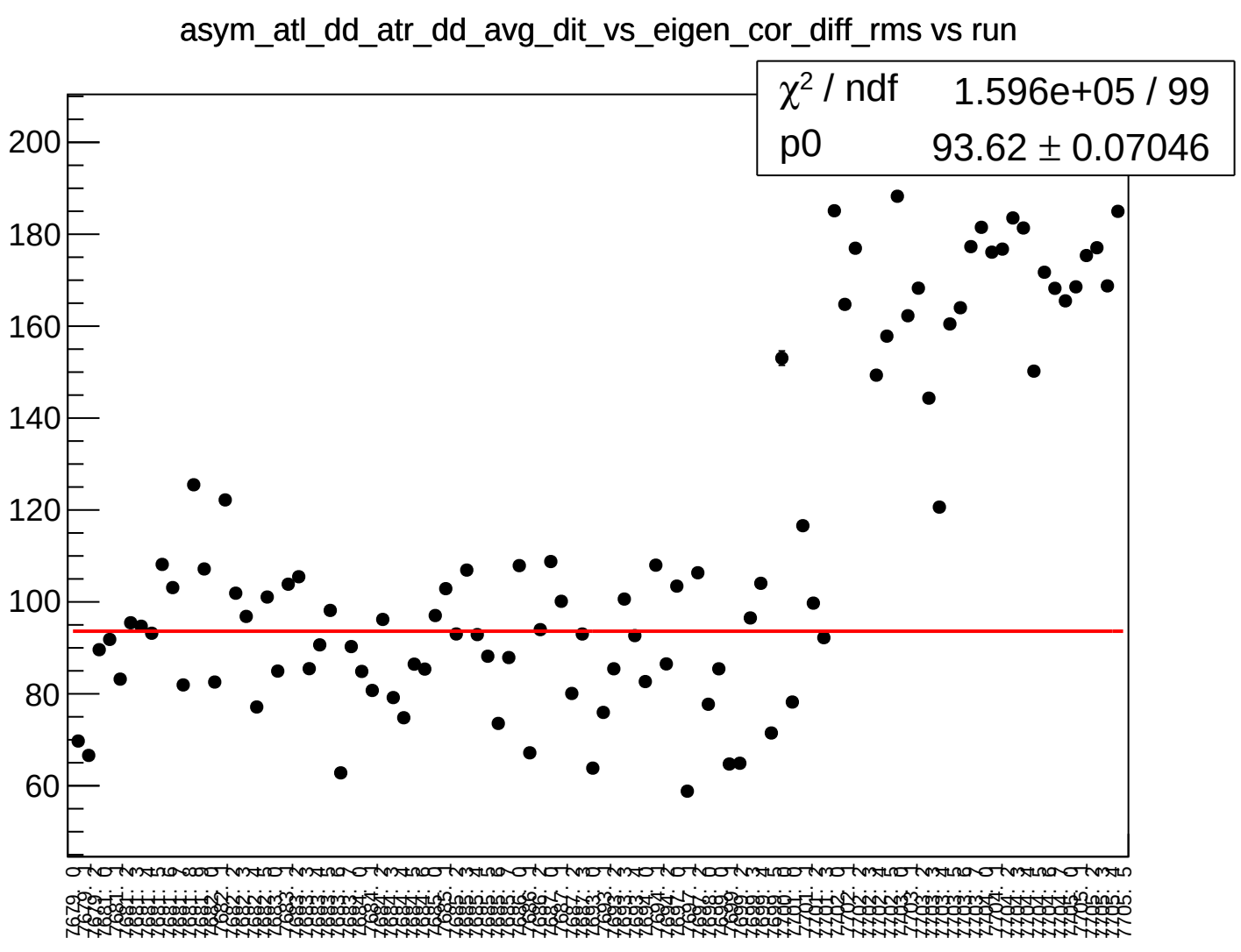

pull1D
Entries 100
Mean −0.01405
Std Dev 1.056

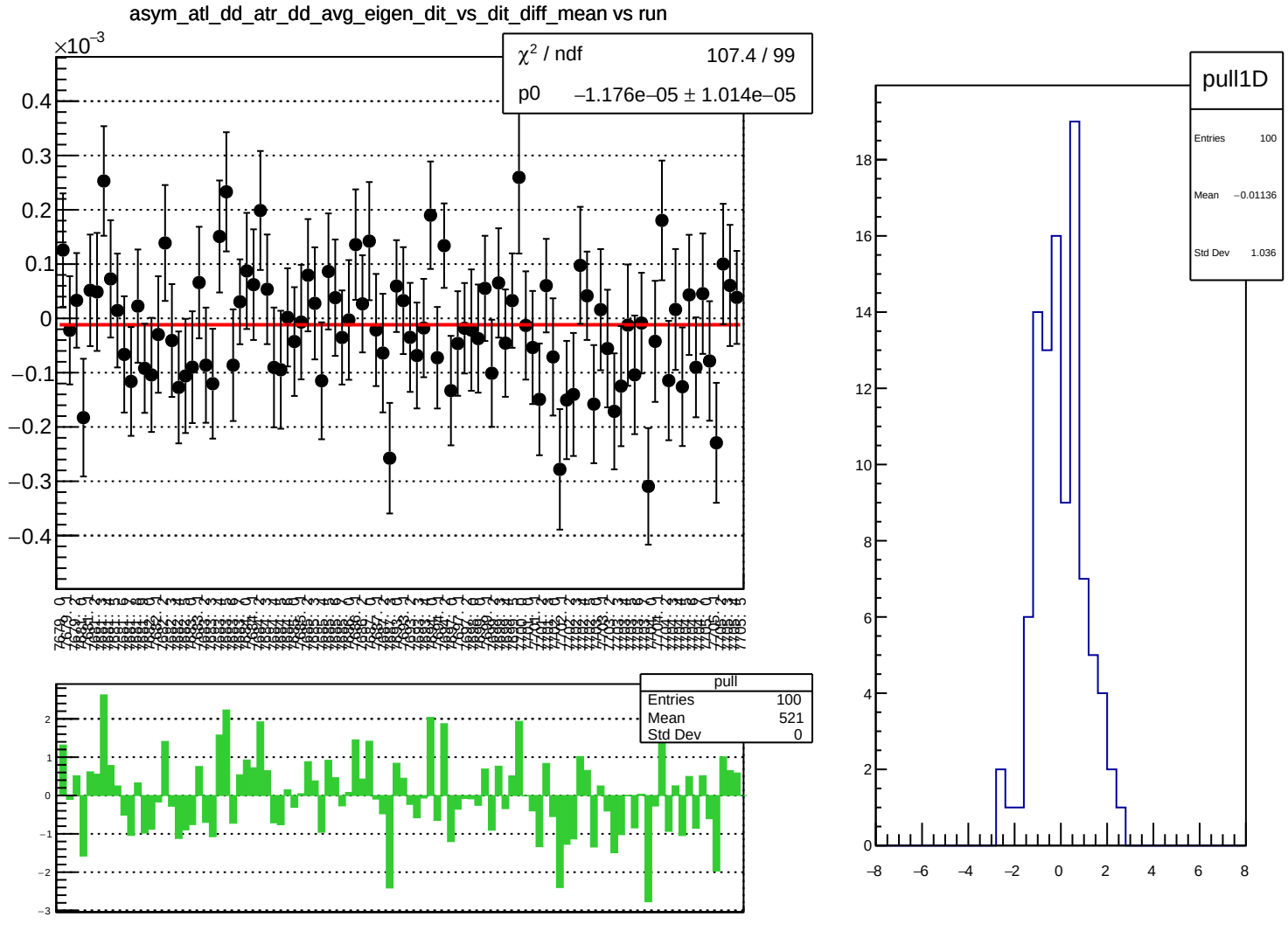

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.419e+06 / 99
p0 1.445e−10 ± 2.032e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

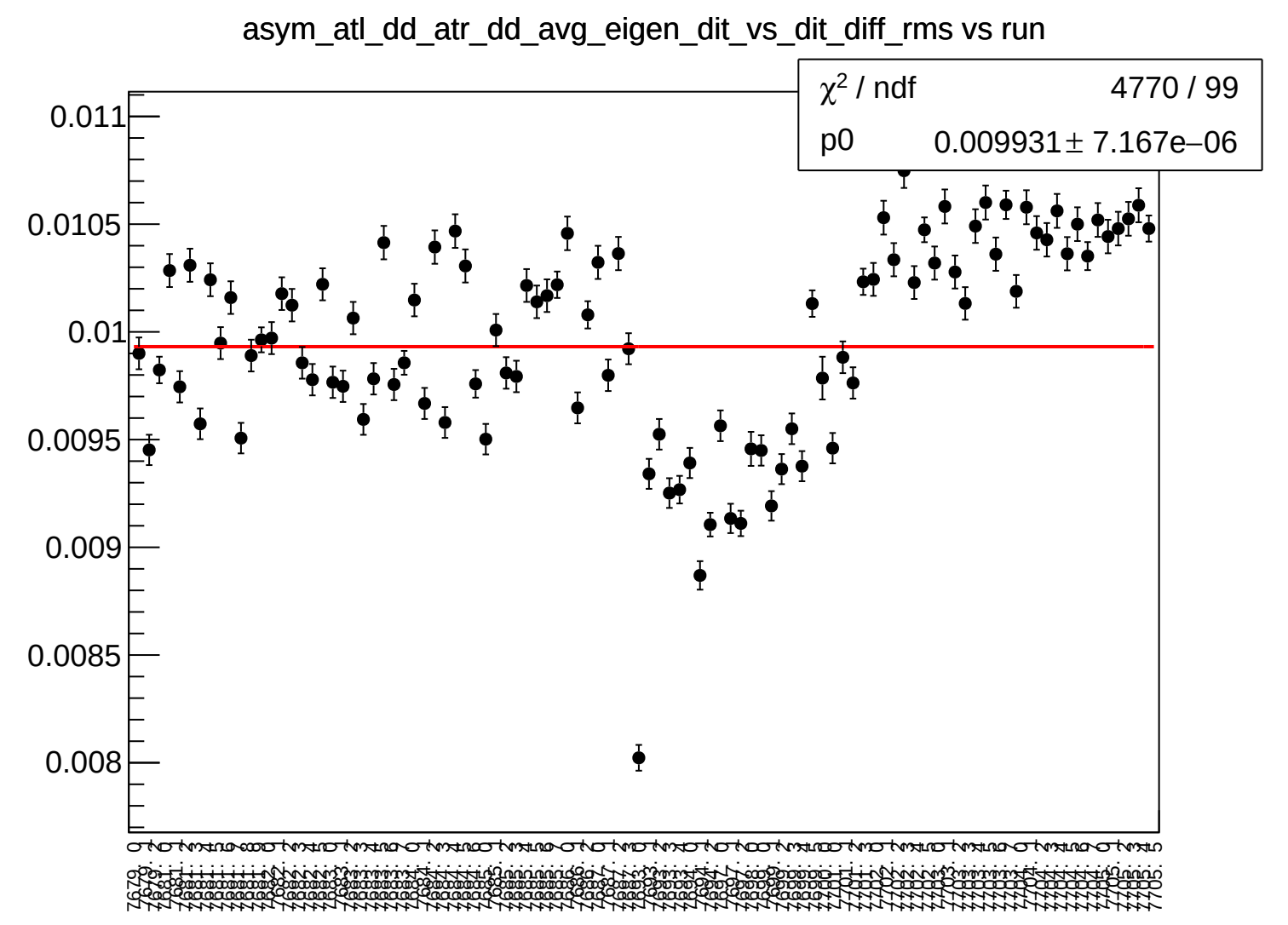

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 90.05 / 99
p0 0.08389 ± 0.09964
pull
Entries 100
Mean 153.2
Std Dev 0
pull1D
Entries 100
Mean 0.01908
Std Dev 0.9487

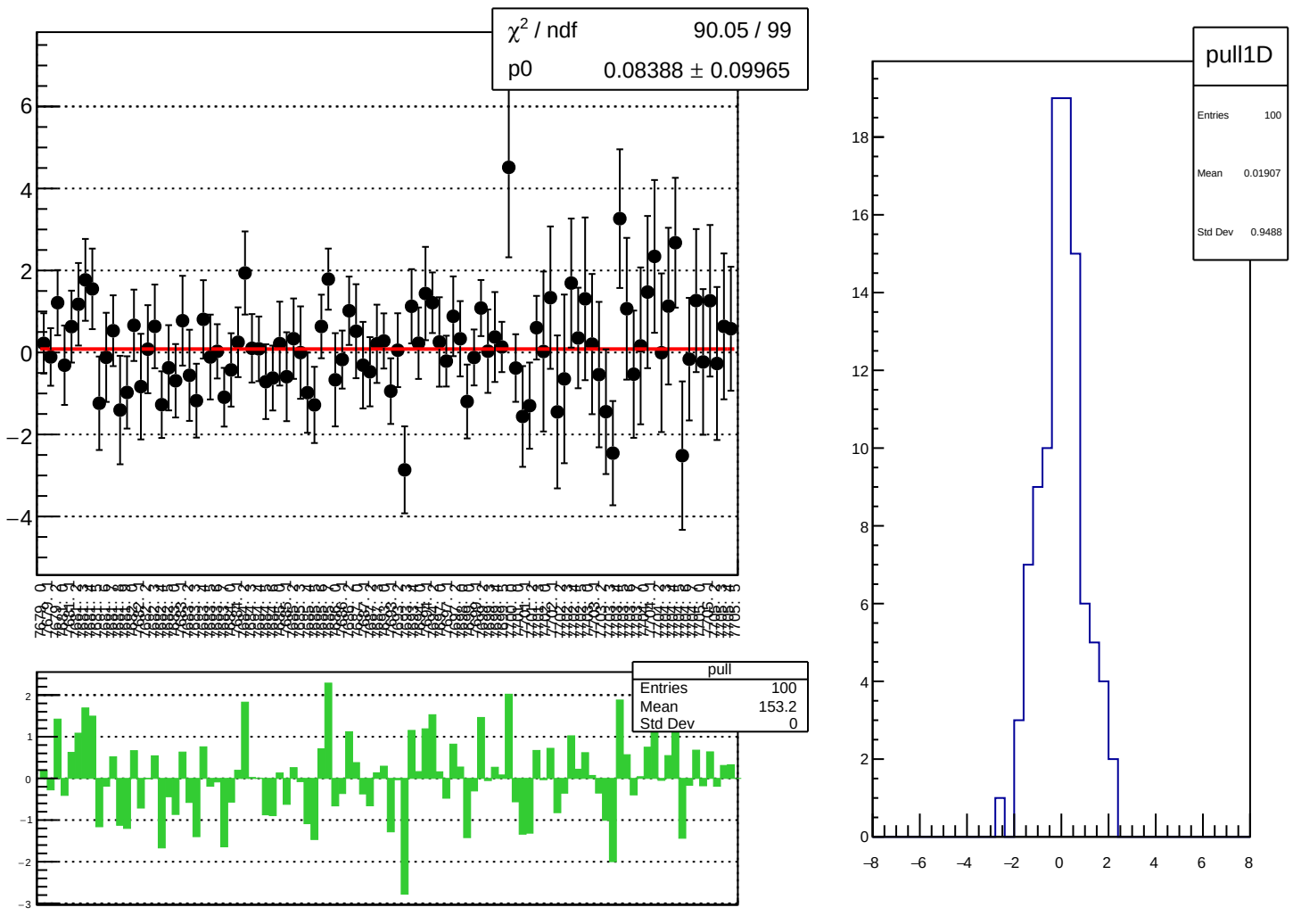

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.596e+05 / 99
p0 93.62 ± 0.07046
200
180
160
140
120
100
80
60

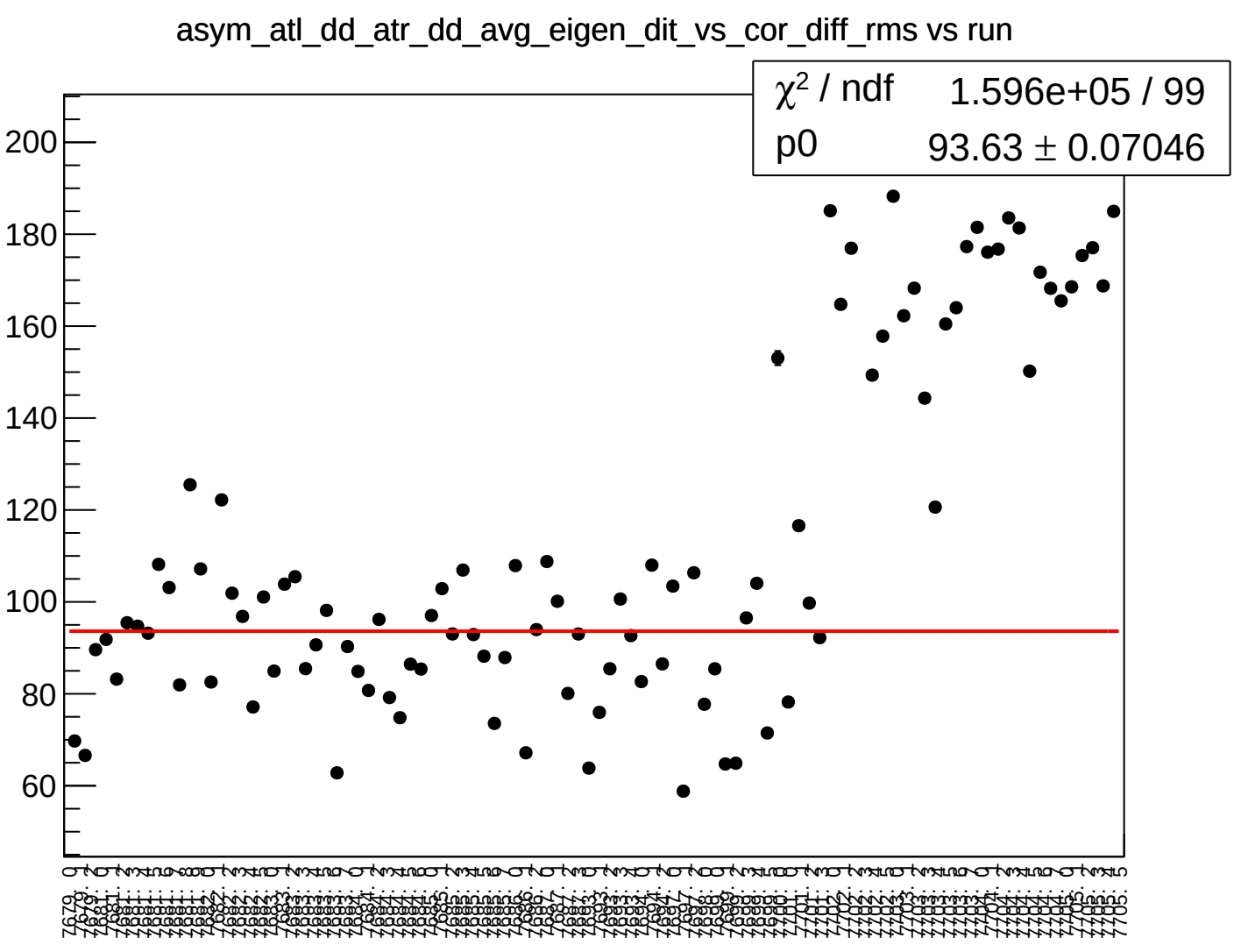

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.05 / 99
p0 0.08389 ± 0.09964
pull
Entries 100
Mean 153.2
Std Dev 0
pull1D
Entries 100
Mean 0.01908
Std Dev 0.9487

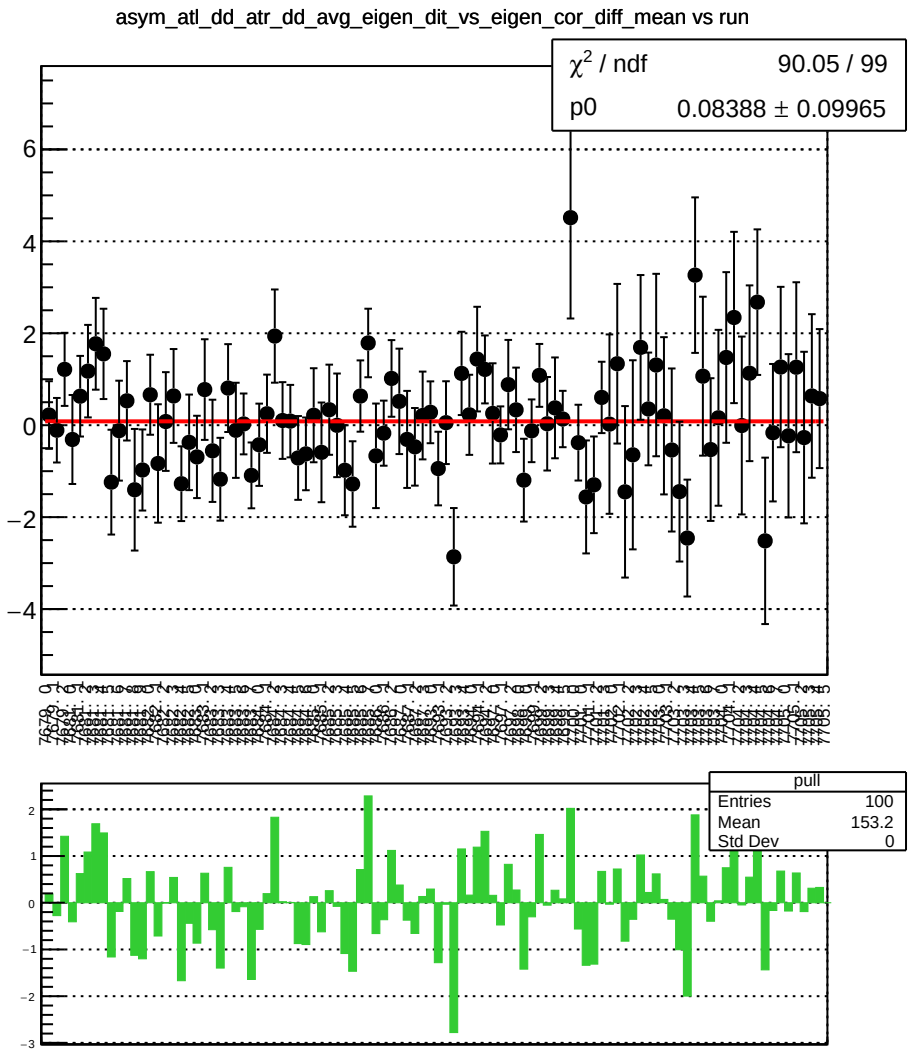

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.596e+05 / 99
p0 93.62 ± 0.07046
200
180
160
140
120
100
80
60

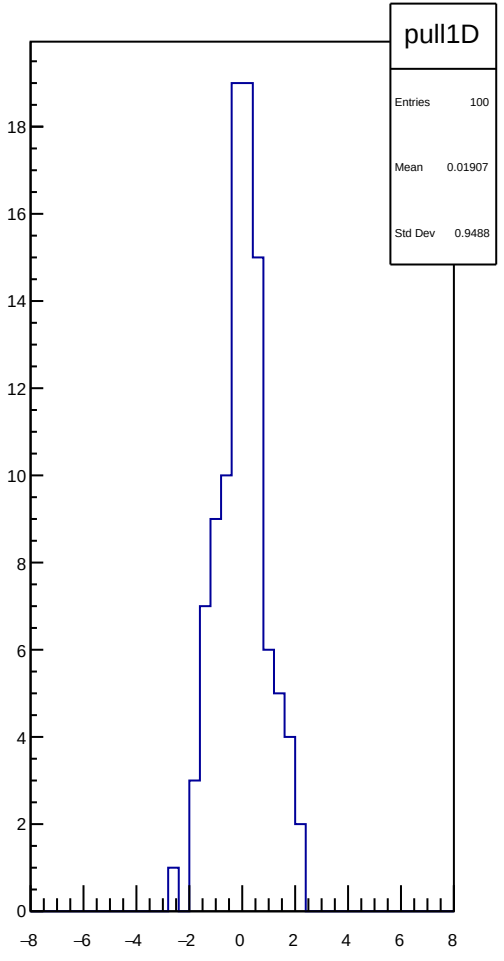

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 107.4 / 99
p0 −1.176e−05 ± 1.014e−05
pull
Entries 100
Mean 521
Std Dev 0
pull1D
Entries 100
Mean −0.01136
Std Dev 1.036

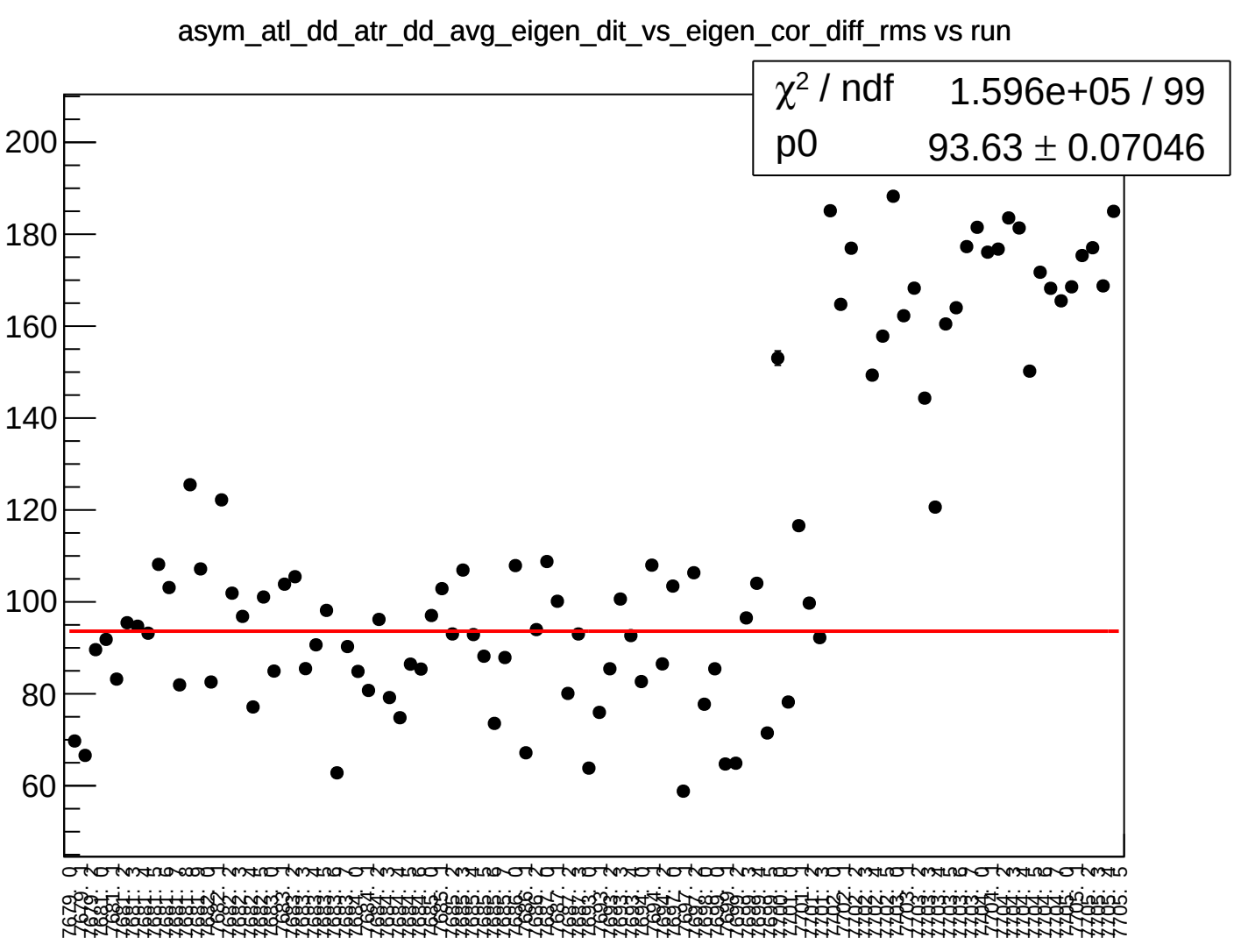

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4770 / 99
p0 0.009931 ± 7.167e−06
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008

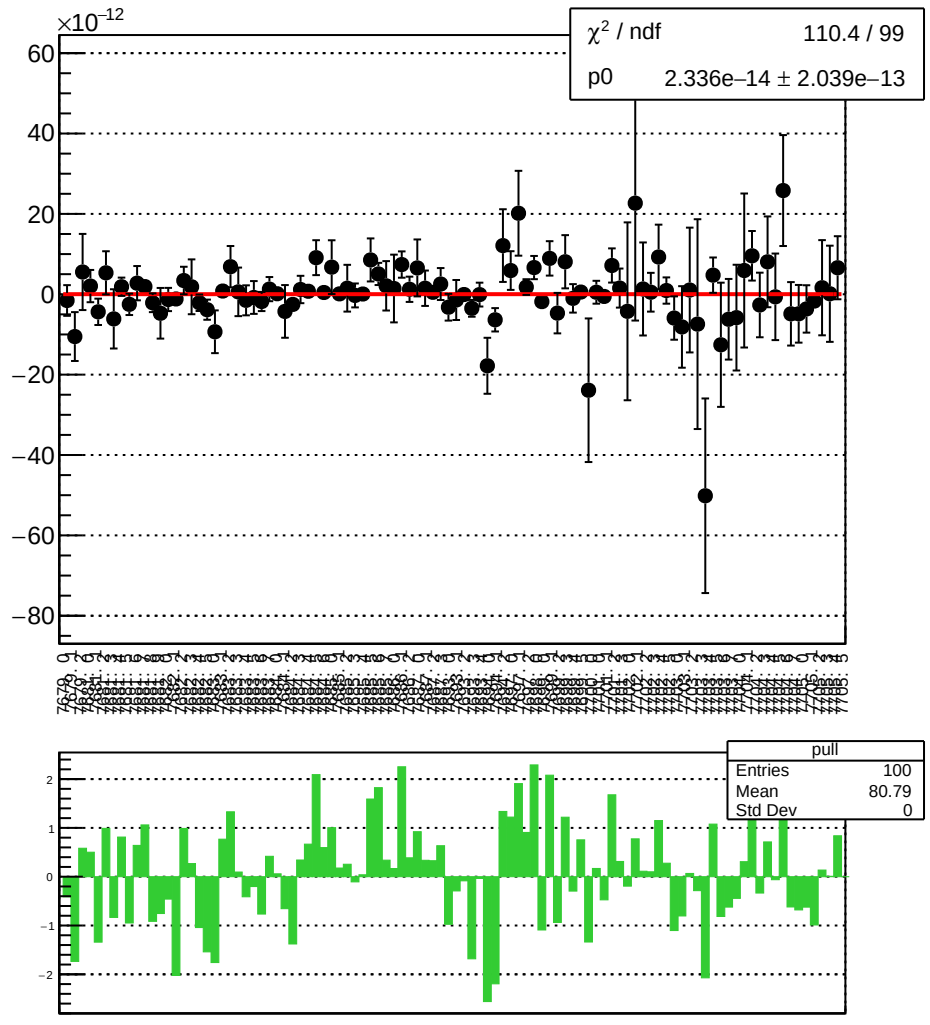

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.05 / 99
p0 0.08388 ± 0.09965
pull
Entries 100
Mean 153.2
Std Dev 0
pull1D
Entries 100
Mean 0.01907
Std Dev 0.9488

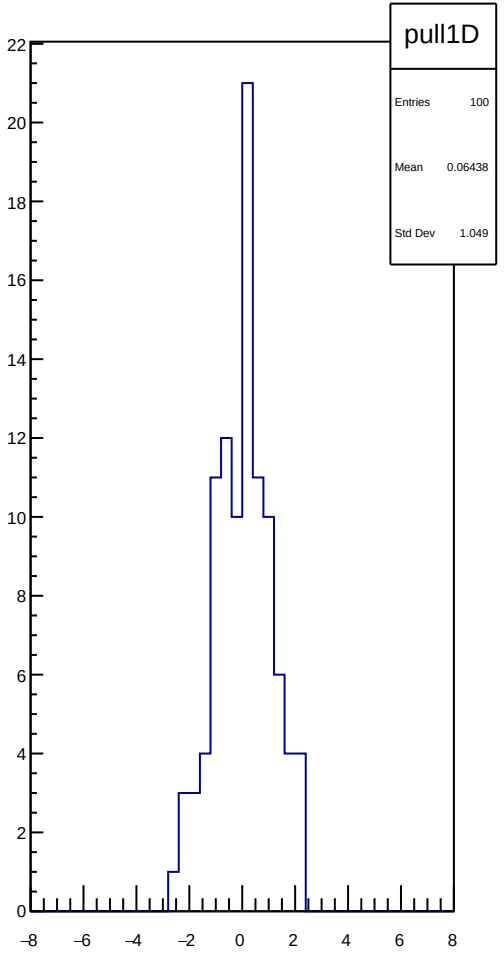

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.596e+05 / 99
p0 93.63 ± 0.07046
200
180
160
140
120
100
80
60

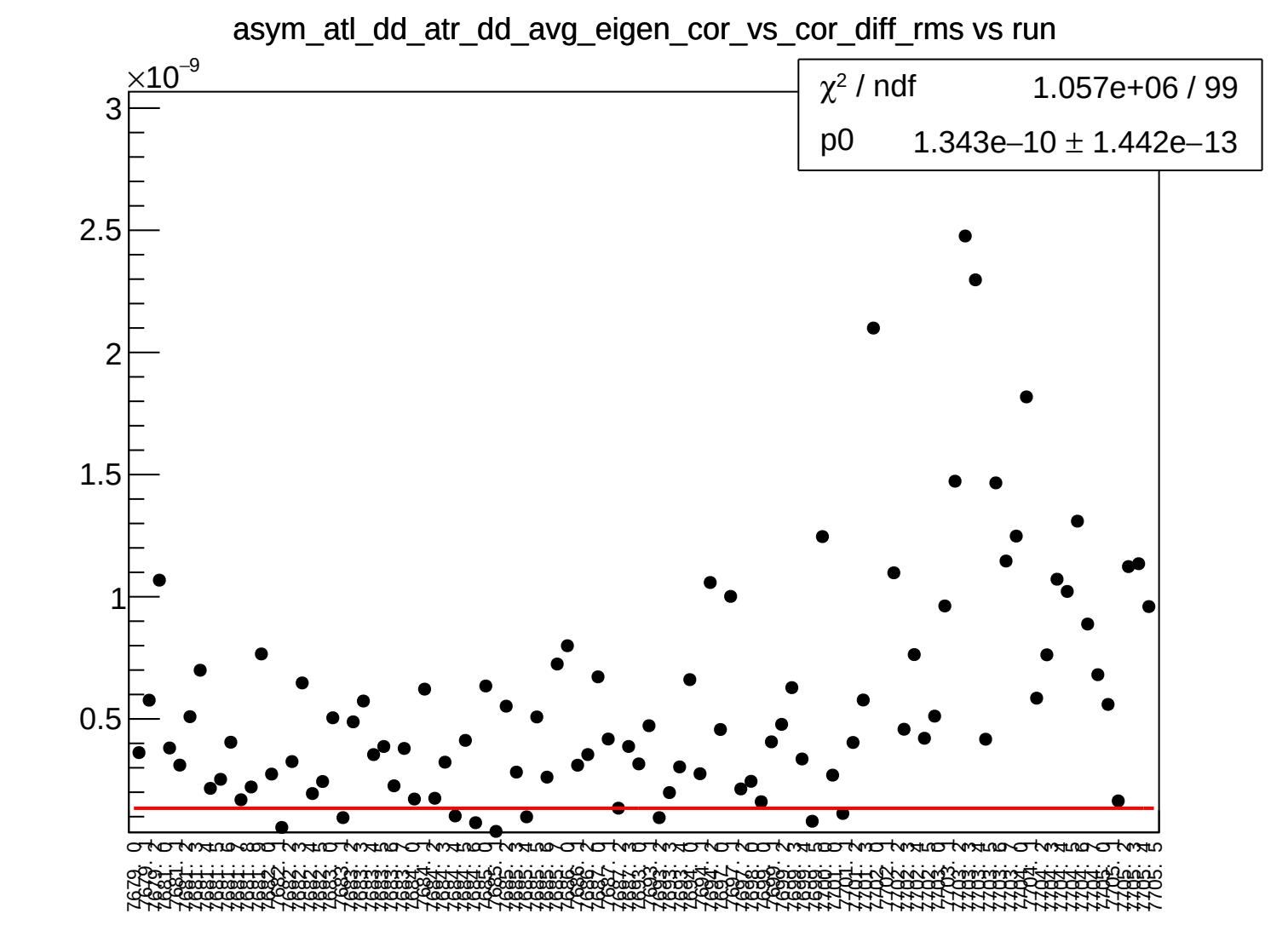

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.05 / 99
p0 0.08388 ± 0.09965
pull
Entries 100
Mean 153.2
Std Dev 0

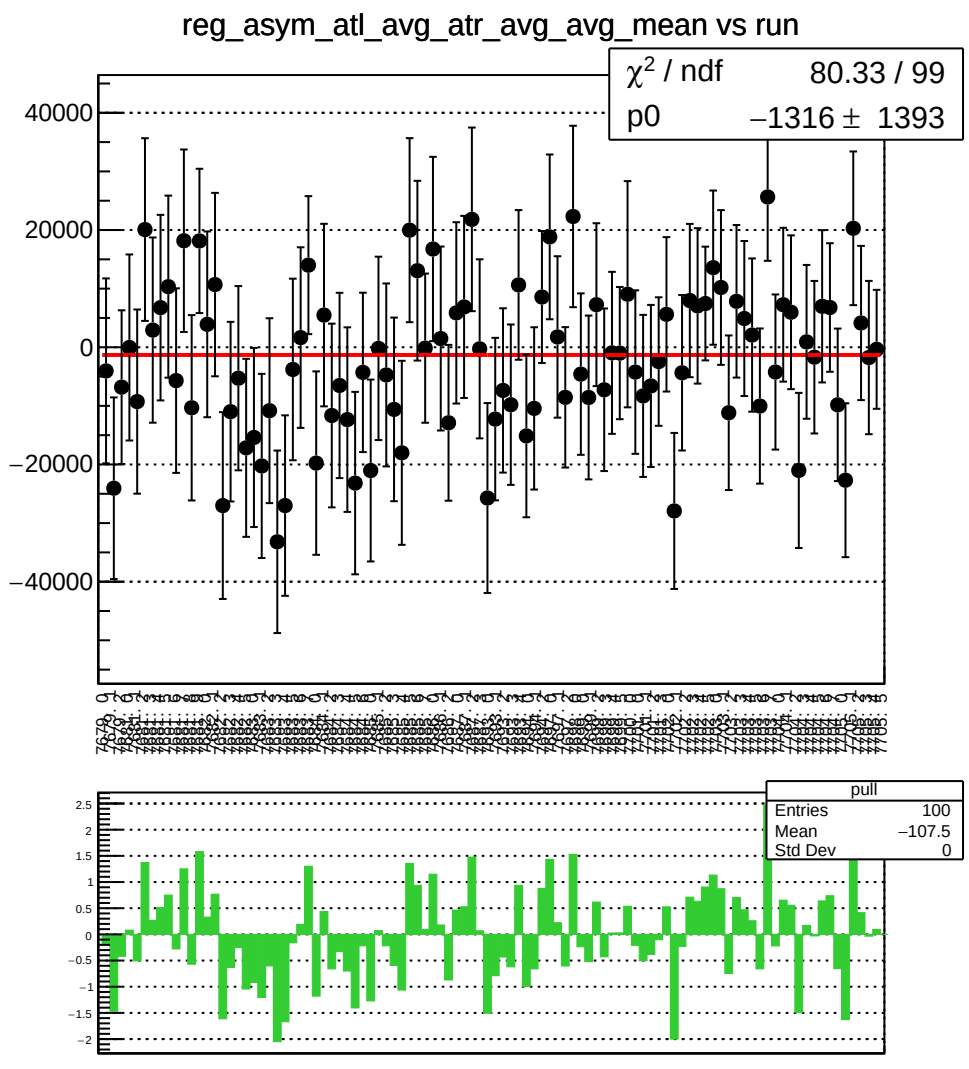

pull1D
Entries 100
Mean 0.01907
Std Dev 0.9488

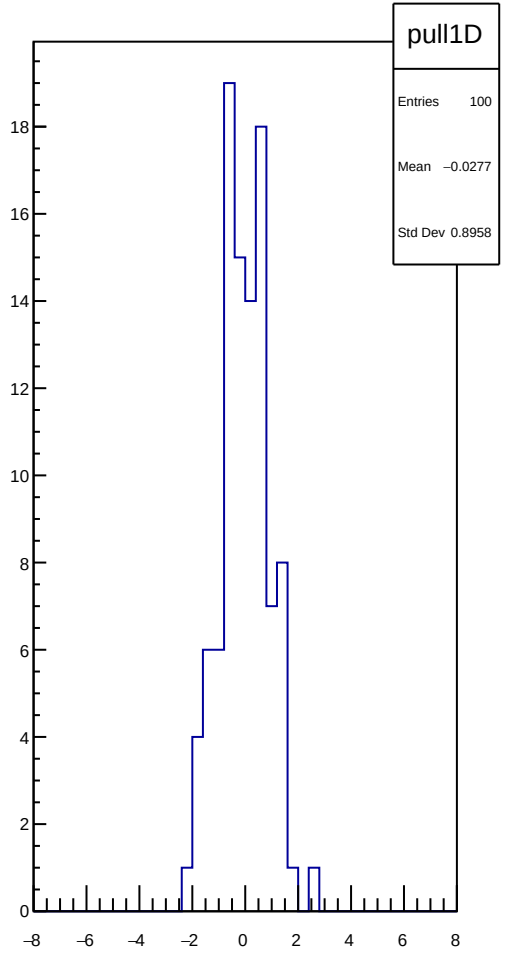

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.596e+05 / 99
p0 93.63 ± 0.07046
200
180
160
140
120
100
80
60

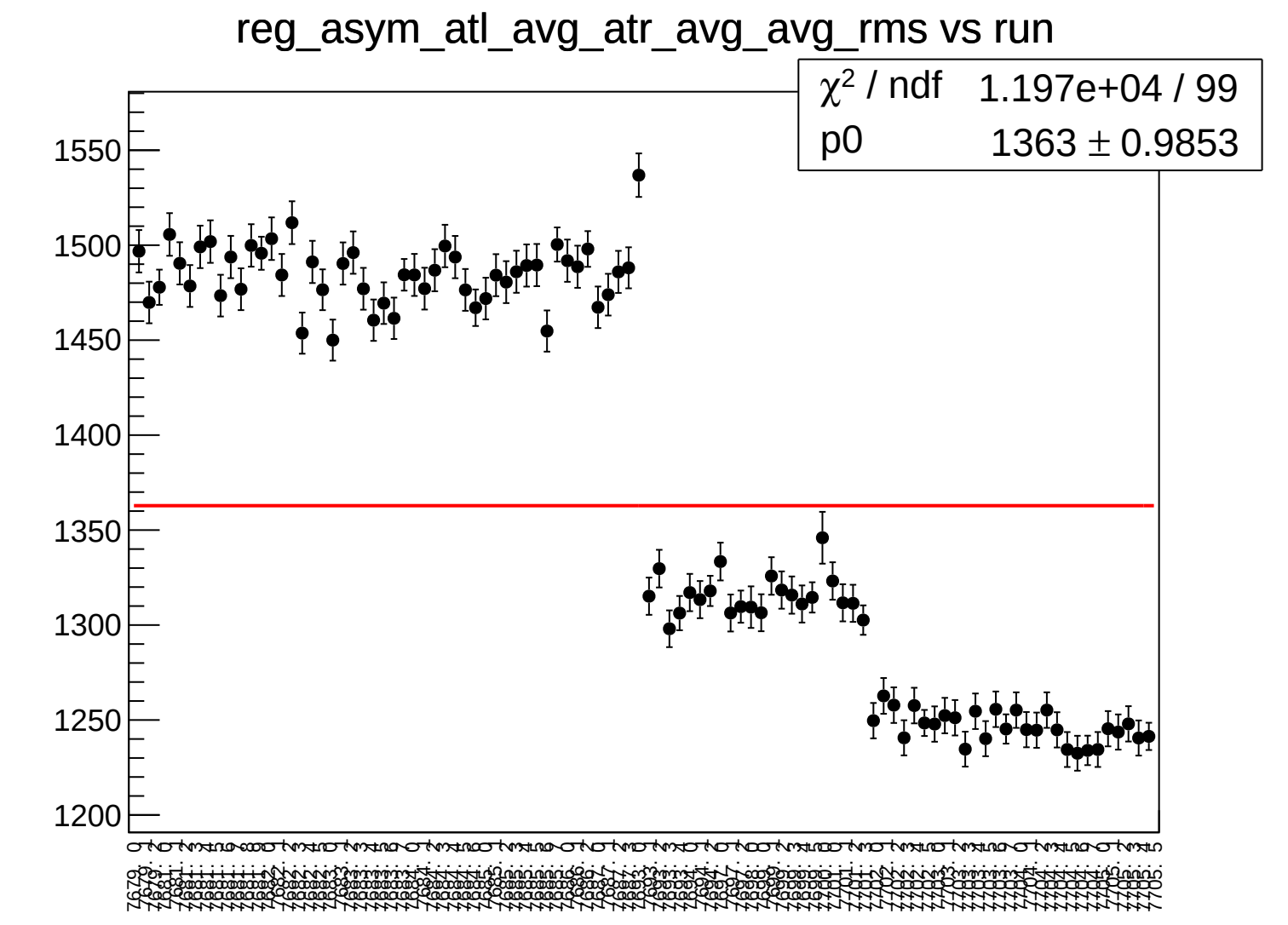

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 110.4 / 99
p0 2.336e−14 ± 2.039e−13
pull
Entries 100
Mean 80.79
Std Dev 0

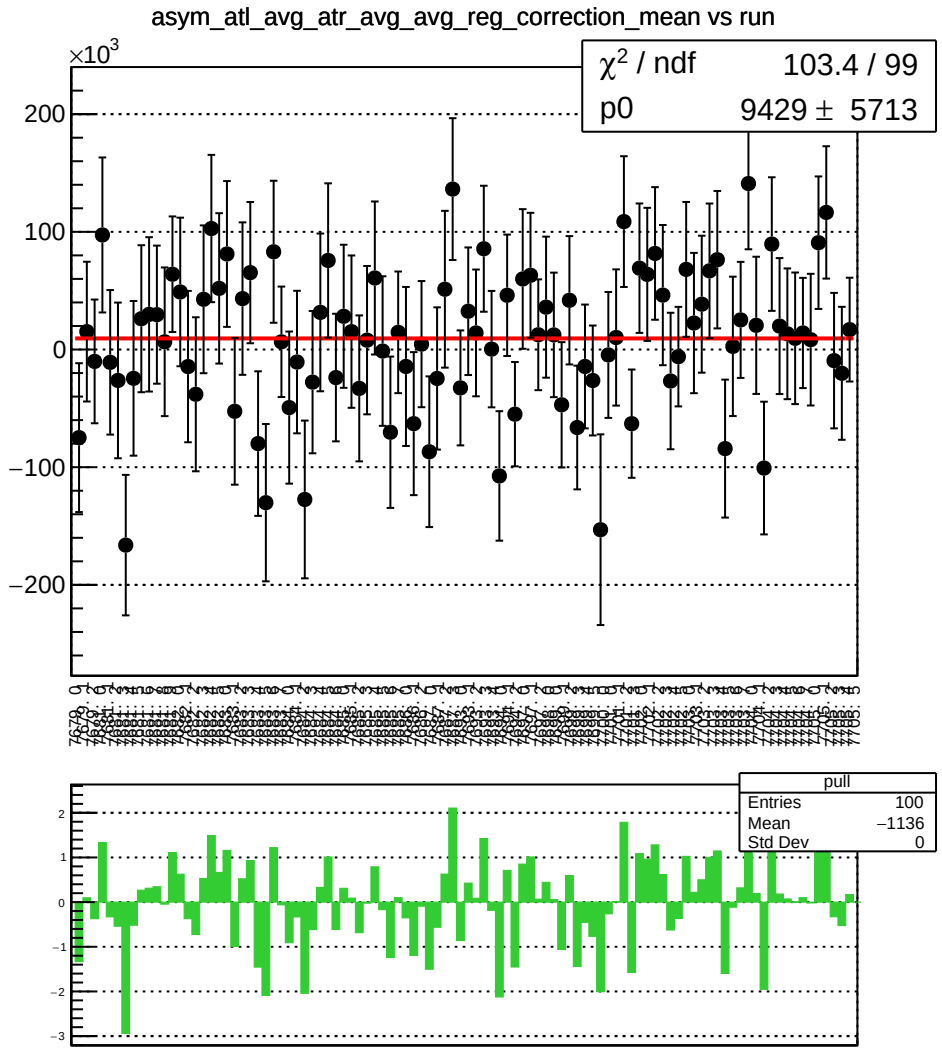

pull1D
Entries 100
Mean 0.06438
Std Dev 1.049

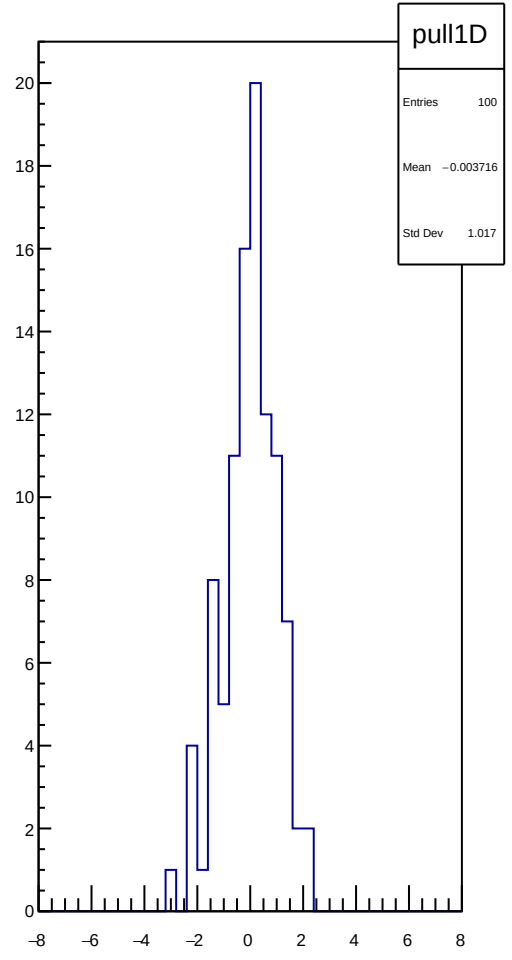

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
3
2.5
2
1.5
1
0.5
χ² / ndf 1.057e+06 / 99
p0 1.343e−10 ± 1.442e−13


reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 80.33 / 99
p0 −1316 ± 1393
40000
20000
0
−20000
−40000
pull
Entries 100
Mean −107.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 100
Mean −0.0277
Std Dev 0.8958
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 1.197e+04 / 99
p0 1363 ± 0.9853
1550
1500
1450
1400
1350
1300
1250
1200


asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 103.4 / 99
p0 9429 ± 5713
200
100
0
−100
−200
pull
Entries 100
Mean −1136
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 100
Mean −0.003716
Std Dev 1.017
20
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14
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10
8
6
4
2
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−6
−4
−2
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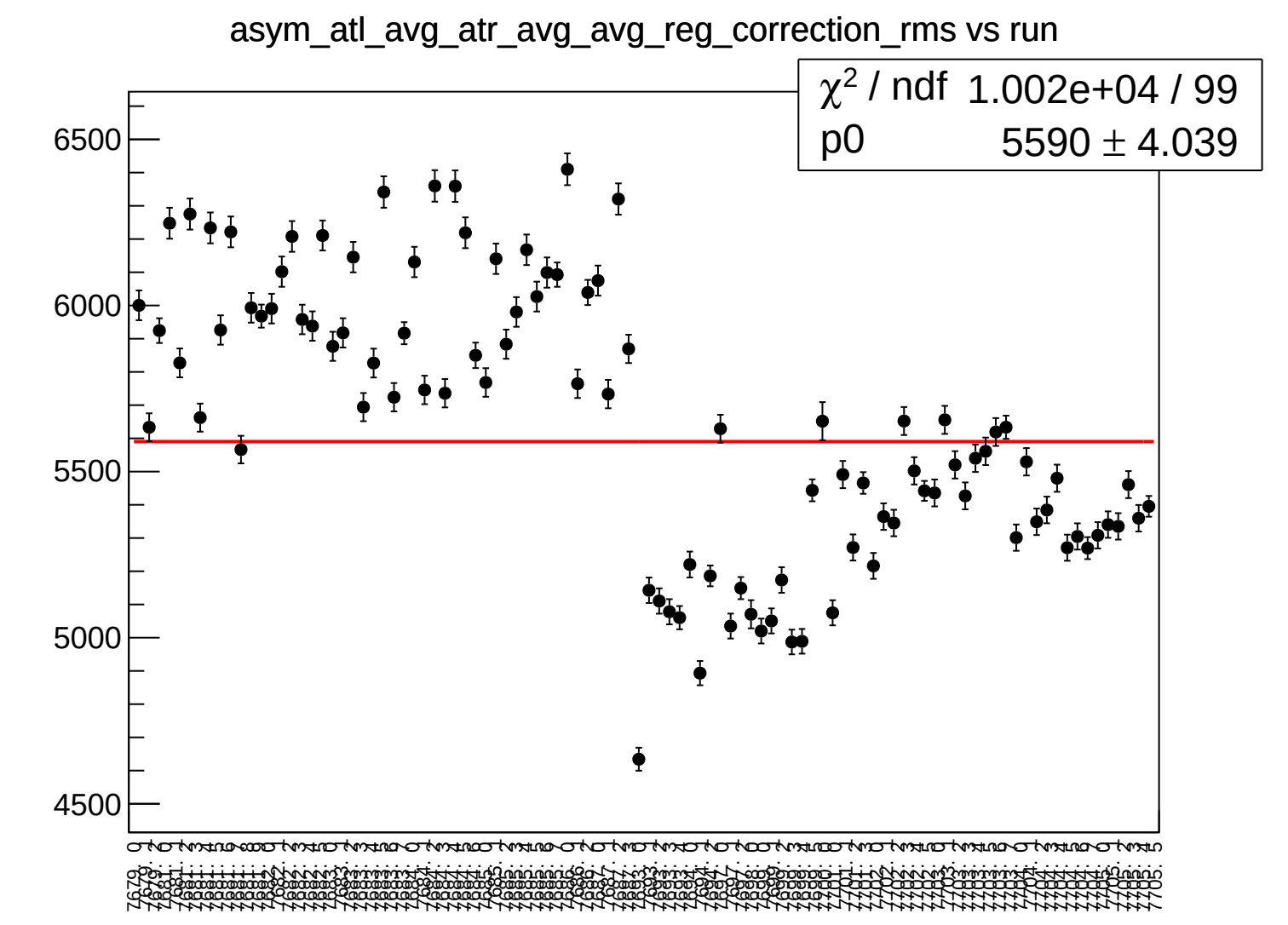
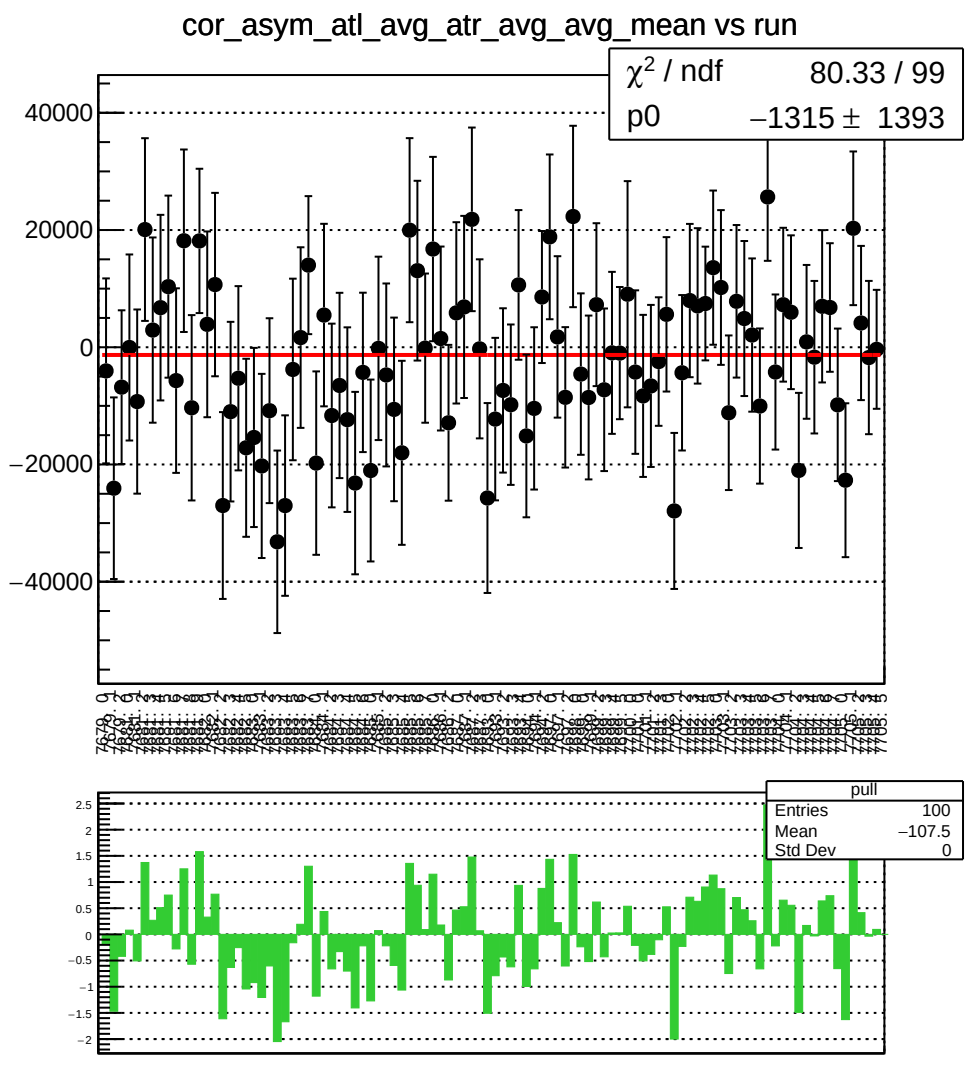
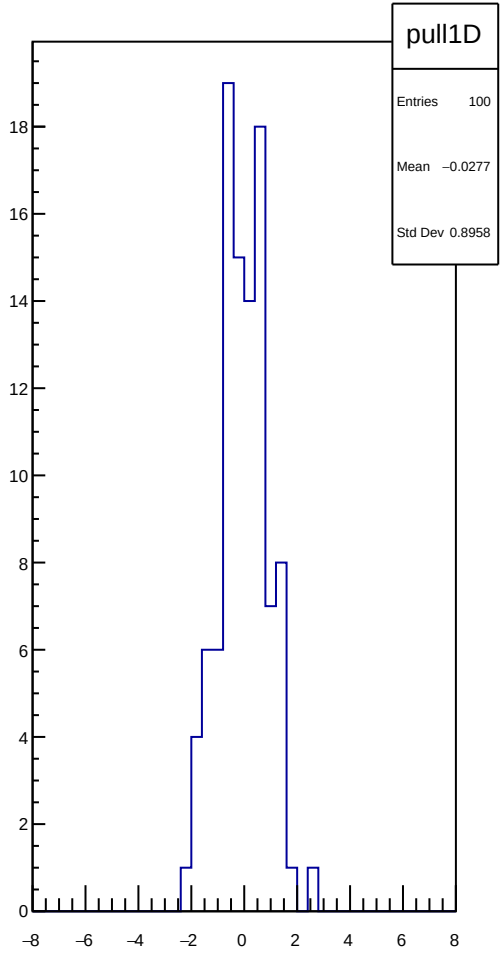
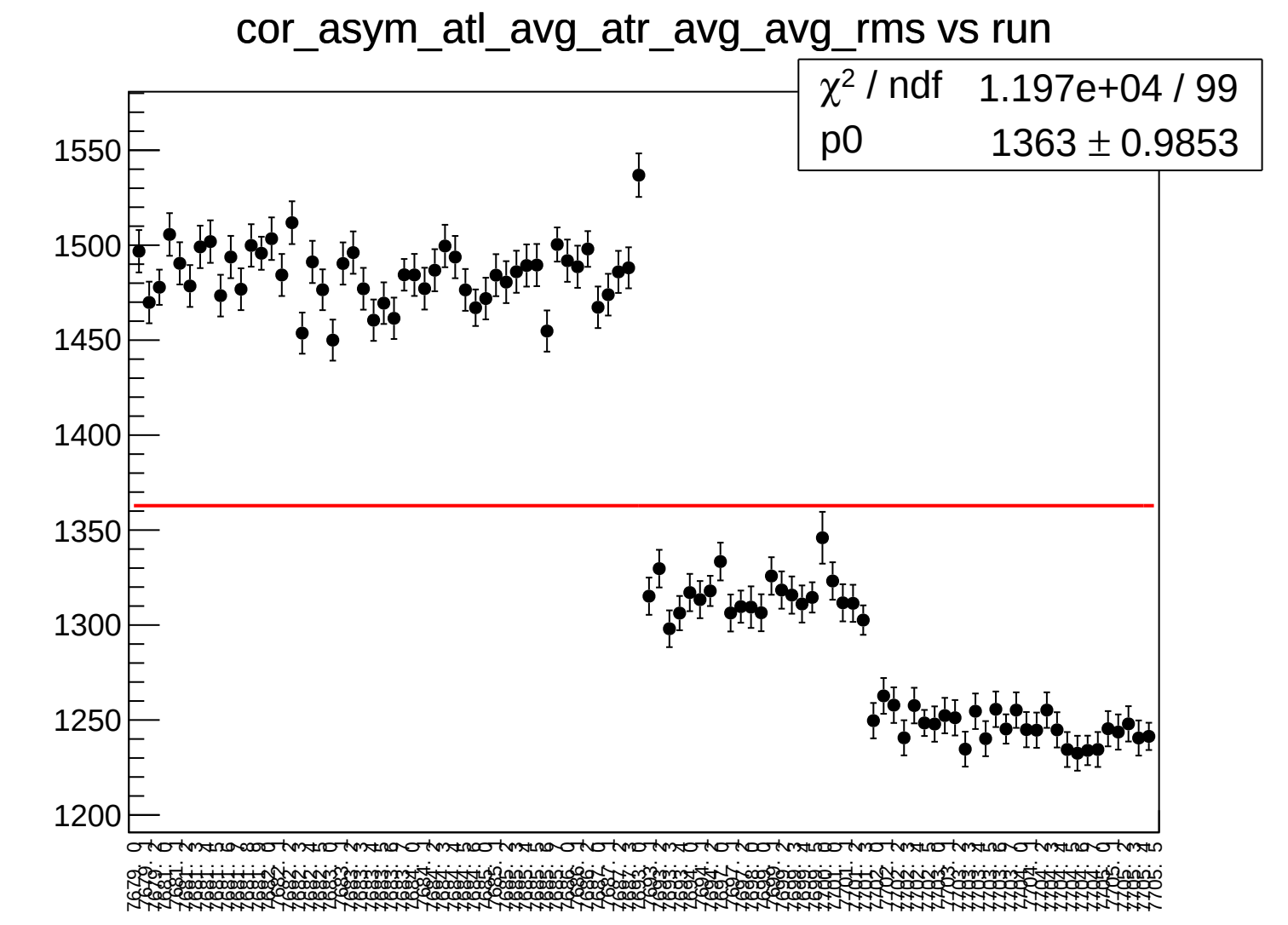
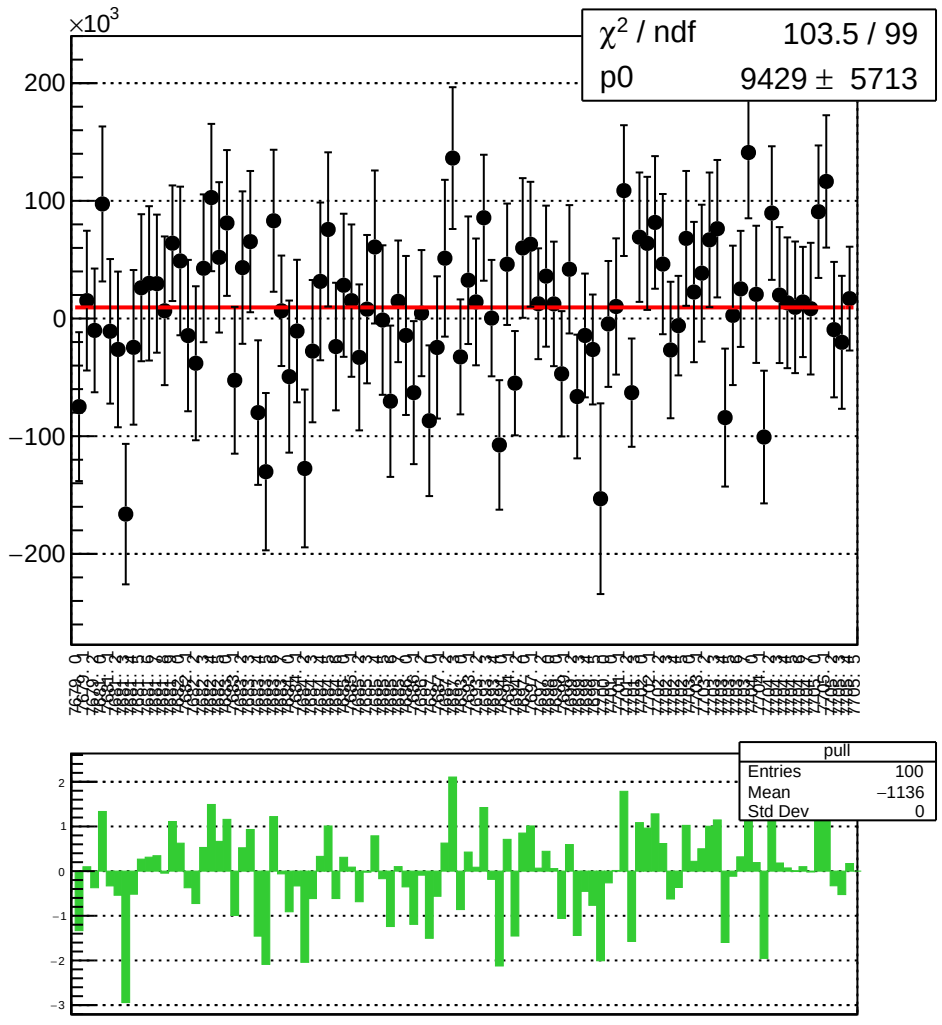
2
4
6
8

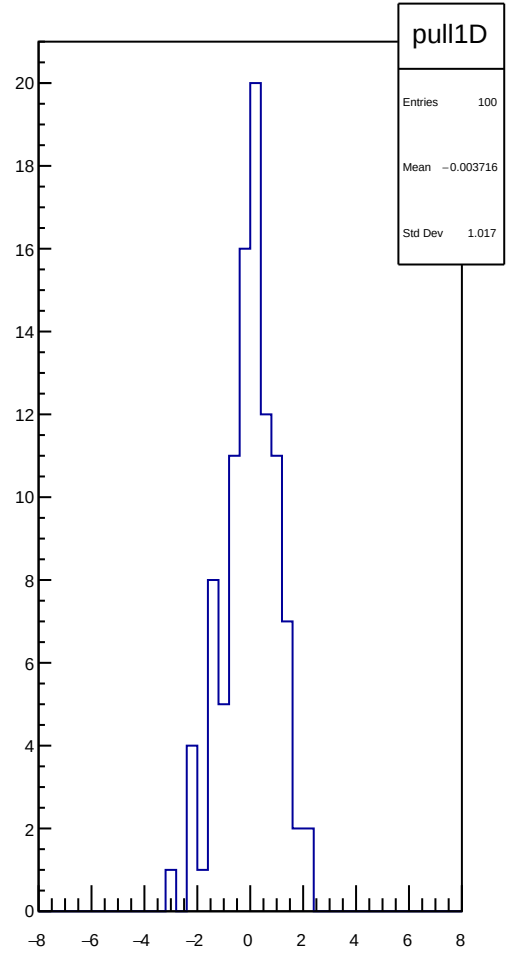

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.002e+04 / 99
p0 5590 ± 4.039
6500
6000
5500
5000
4500

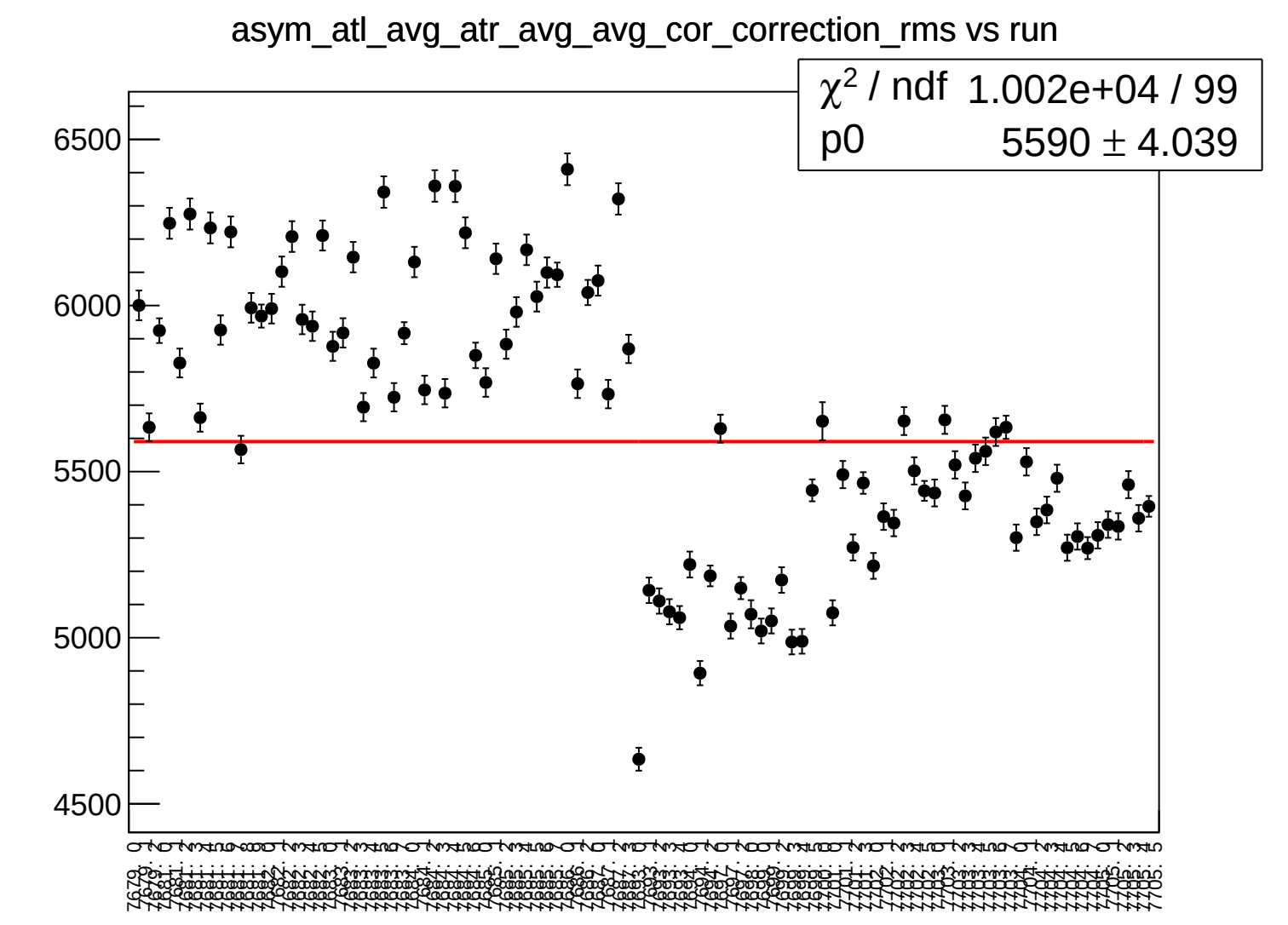

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 80.33 / 99
p0 −1315 ± 1393
40000
20000
0
−20000
−40000
pull
Entries 100
Mean −107.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

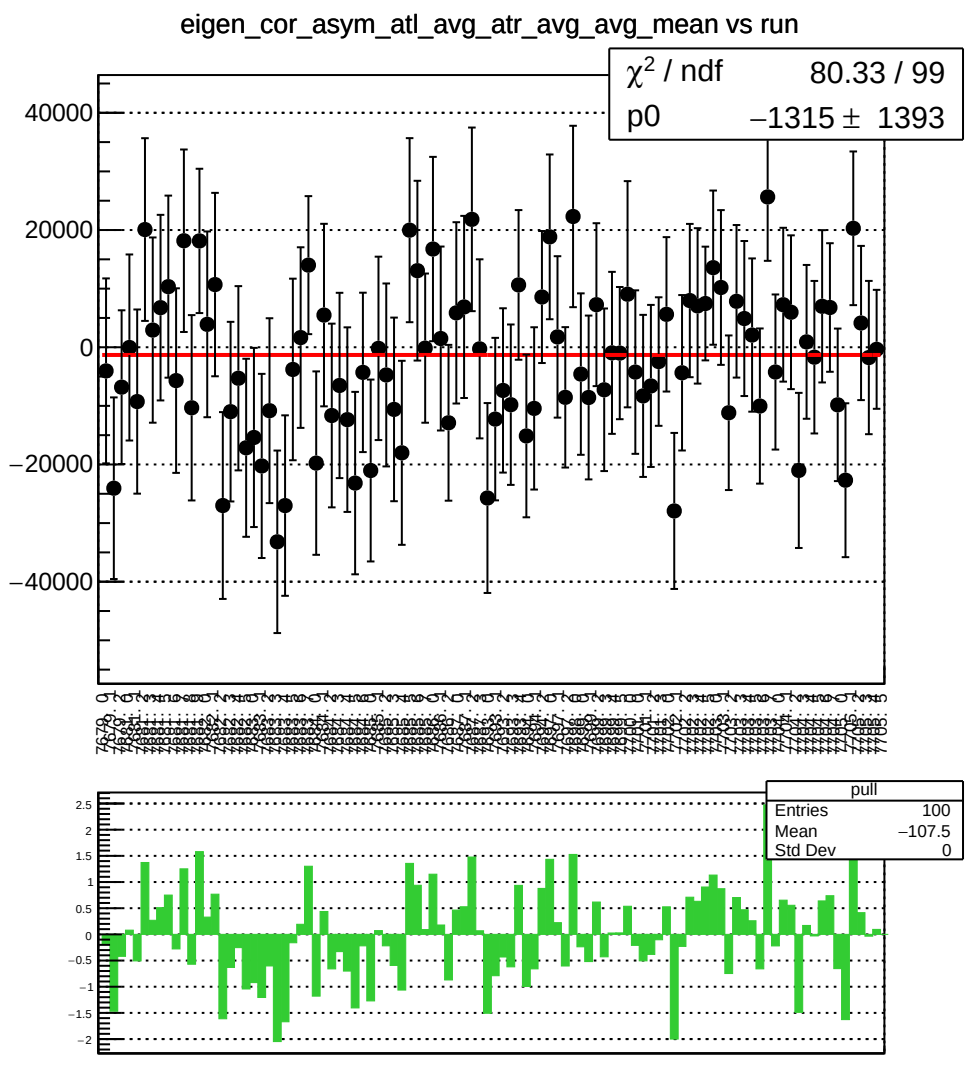

pull1D
Entries 100
Mean −0.0277
Std Dev 0.8958
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

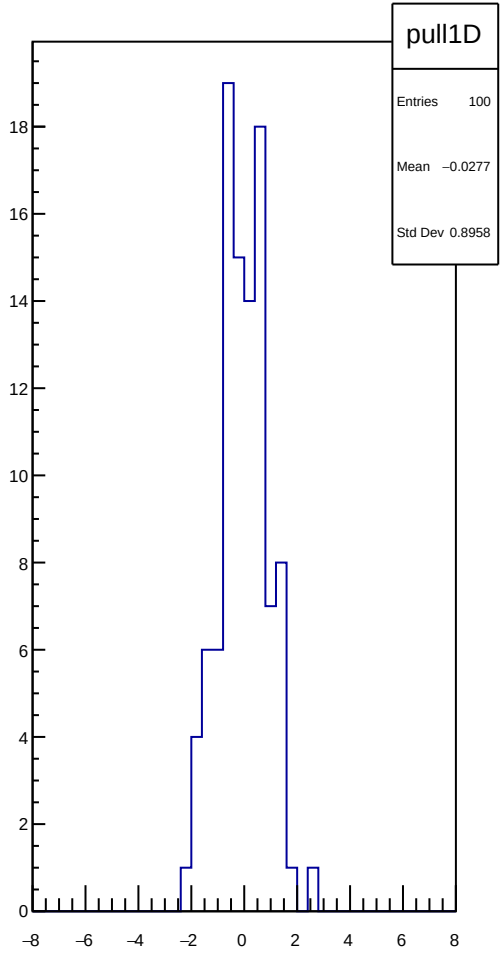

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1.197e+04 / 99
p0 1363 ± 0.9853
1550
1500
1450
1400
1350
1300
1250
1200


asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 103.5 / 99
p0 9429 ± 5713
200
100
0
−100
−200
pull
Entries 100
Mean −1136
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 100
Mean −0.003716
Std Dev 1.017
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.002e+04 / 99
p0 5590 ± 4.039
6500
6000
5500
5000
4500


eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 80.33 / 99
p0 −1315 ± 1393
40000
20000
0
−20000
−40000
pull
Entries 100
Mean −107.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 100
Mean −0.0277
Std Dev 0.8958
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−8
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−4
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2
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6
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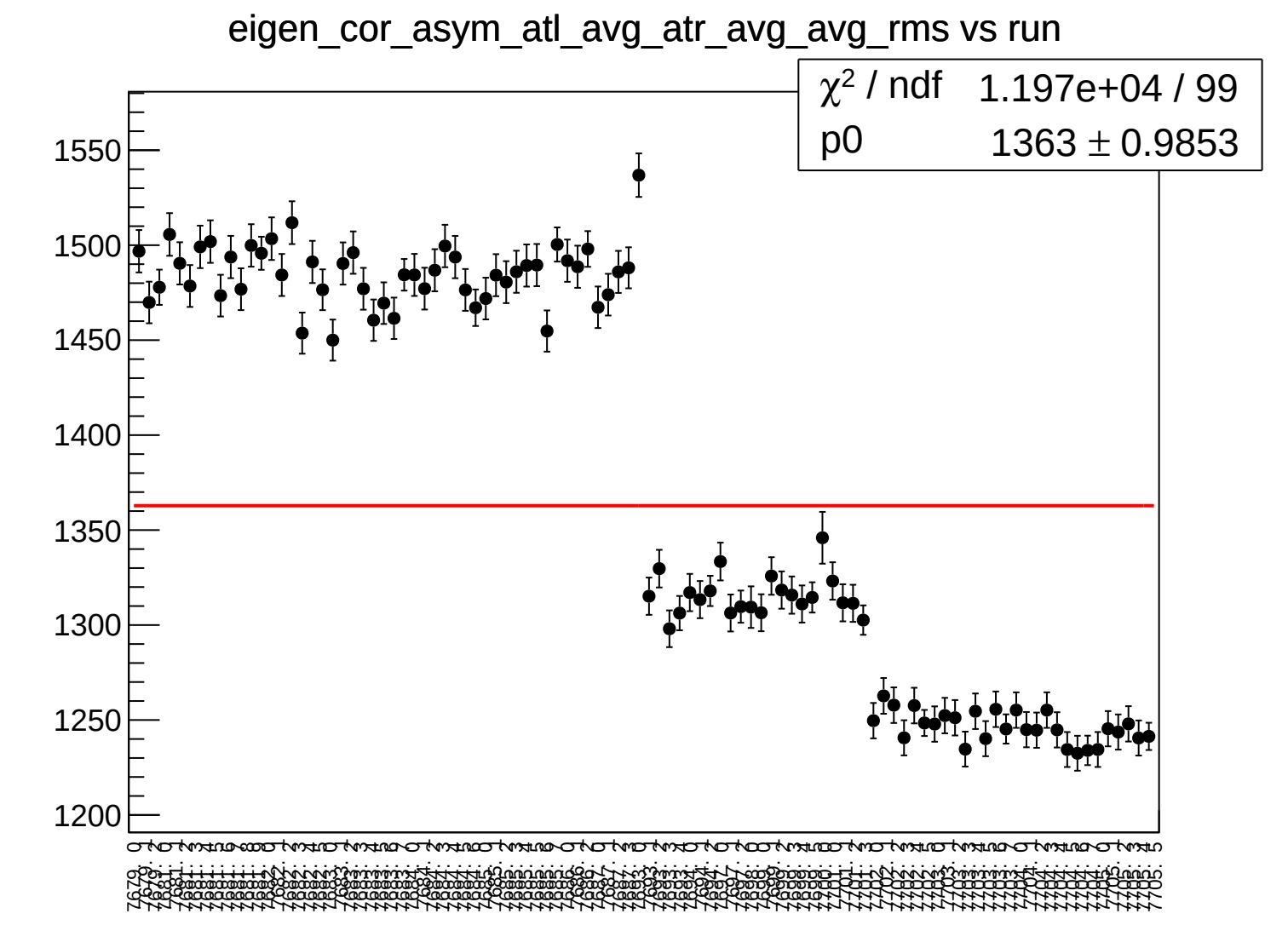
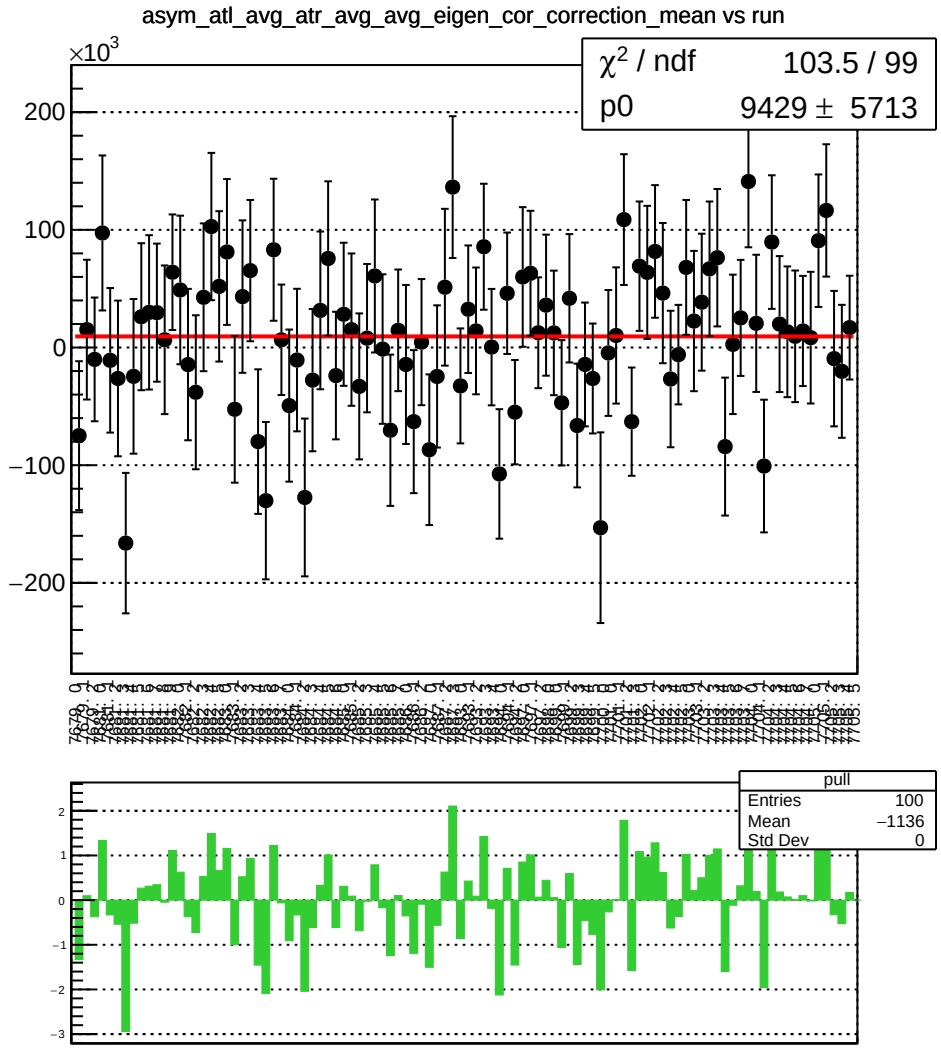
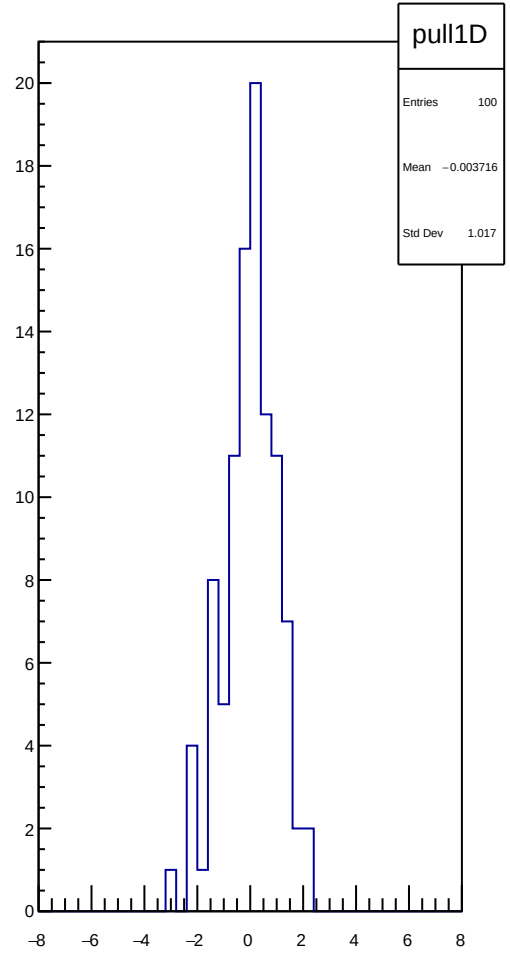

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1.197e+04 / 99
p0 1363 ± 0.9853
1550
1500
1450
1400
1350
1300
1250
1200


asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 103.5 / 99
p0 9429 ± 5713
200
100
0
−100
−200
pull
Entries 100
Mean −1136
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 100
Mean −0.003716
Std Dev 1.017
20
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6
4
2
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2
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6
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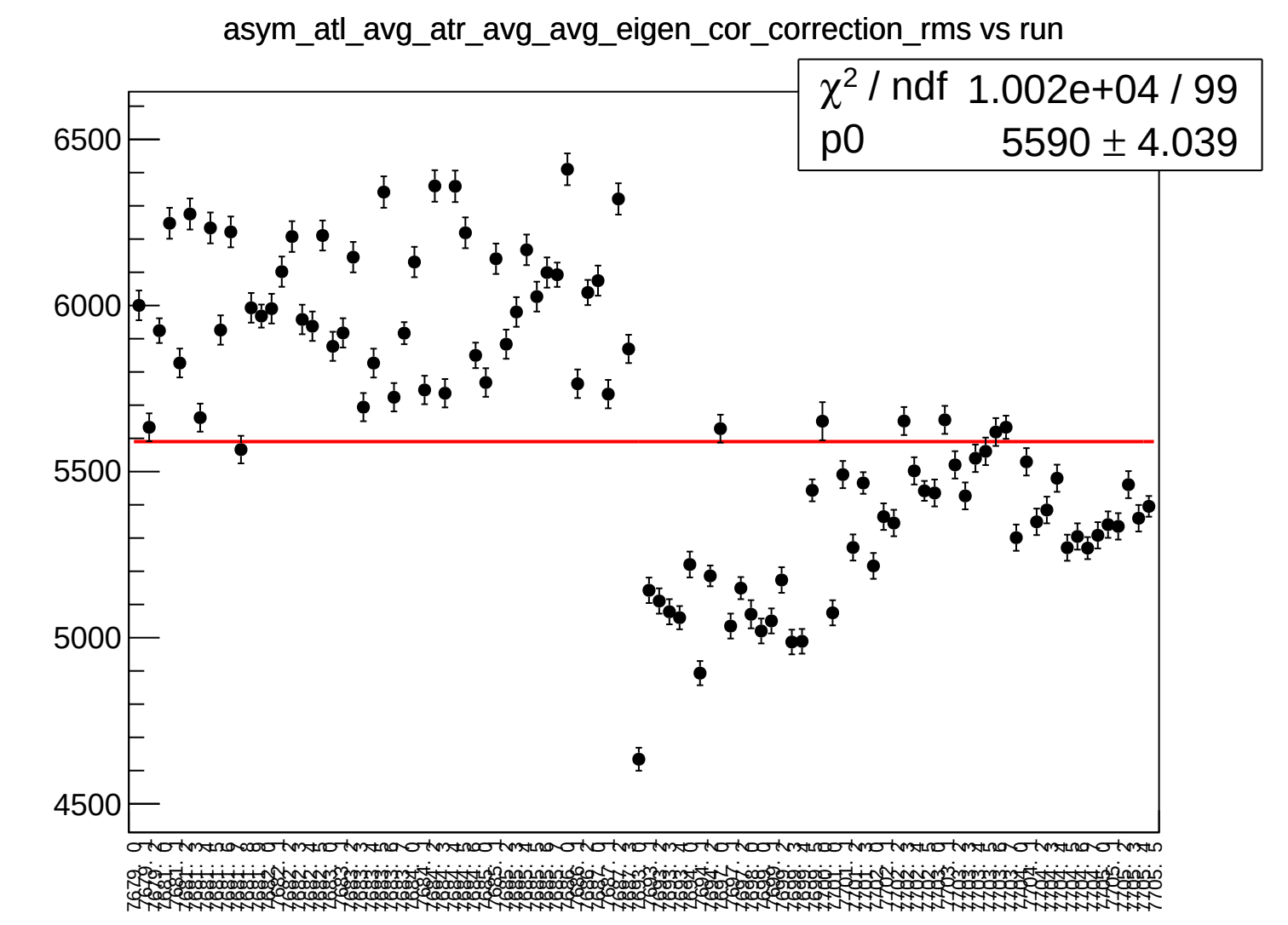
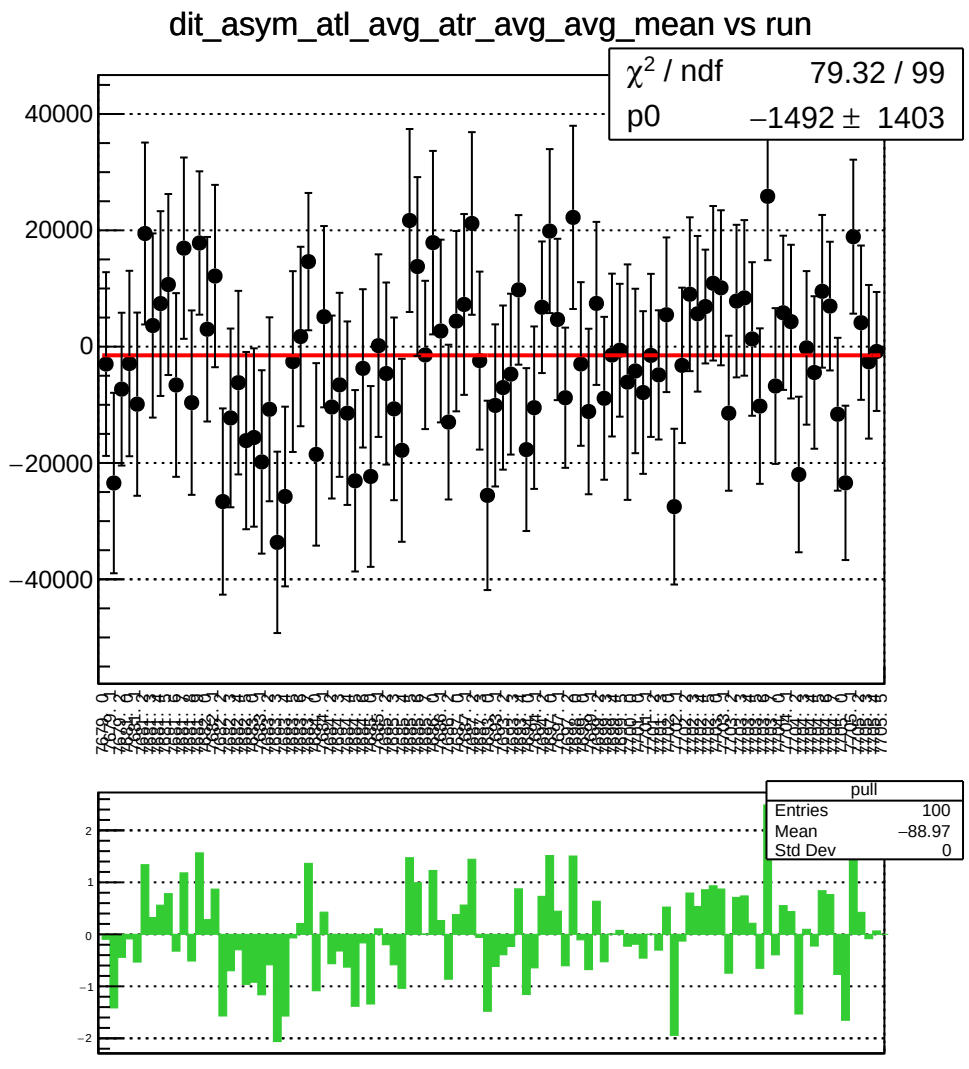
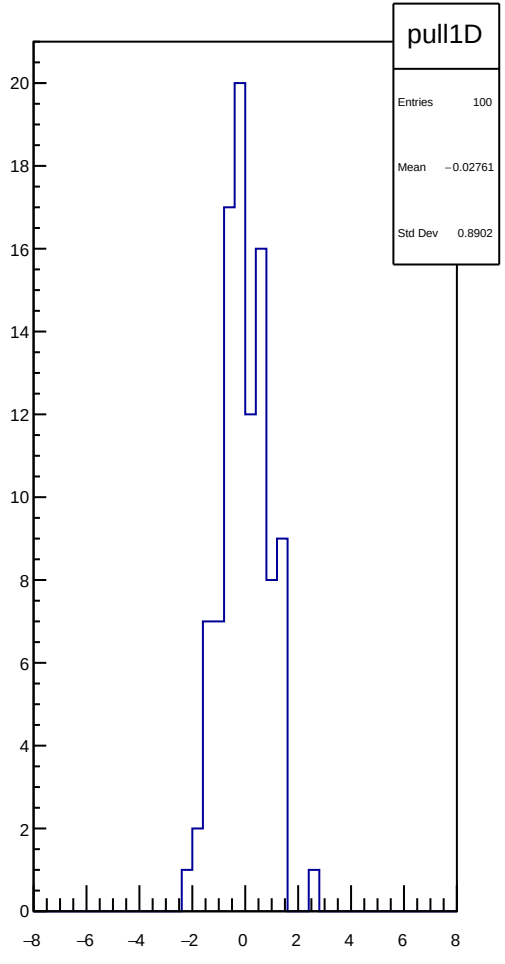

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.002e+04 / 99
p0 5590 ± 4.039
6500
6000
5500
5000
4500


dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 79.32 / 99
p0 −1492 ± 1403
40000
20000
0
−20000
−40000
pull
Entries 100
Mean −88.97
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 100
Mean −0.02761
Std Dev 0.8902
20
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10
8
6
4
2
0
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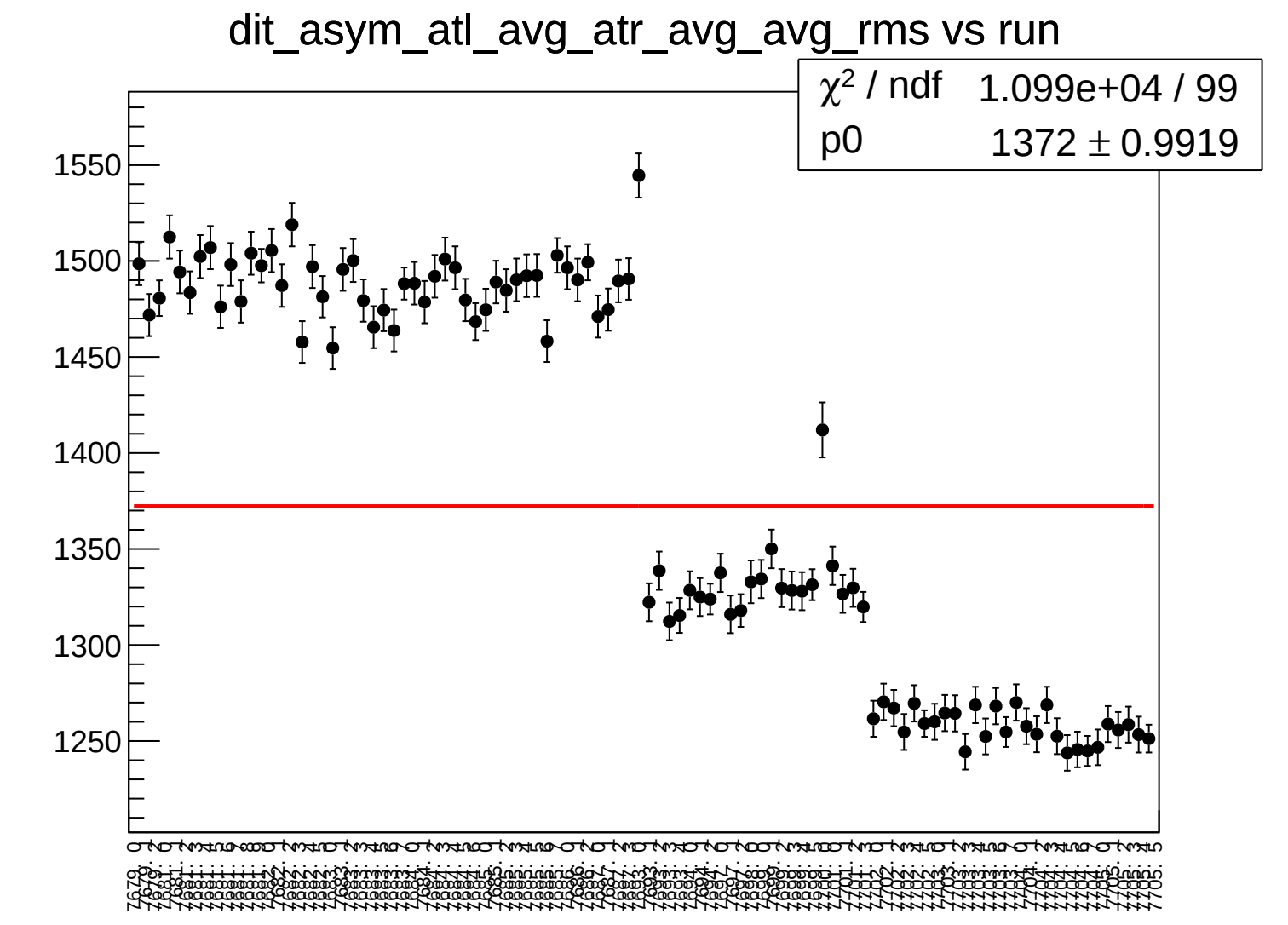
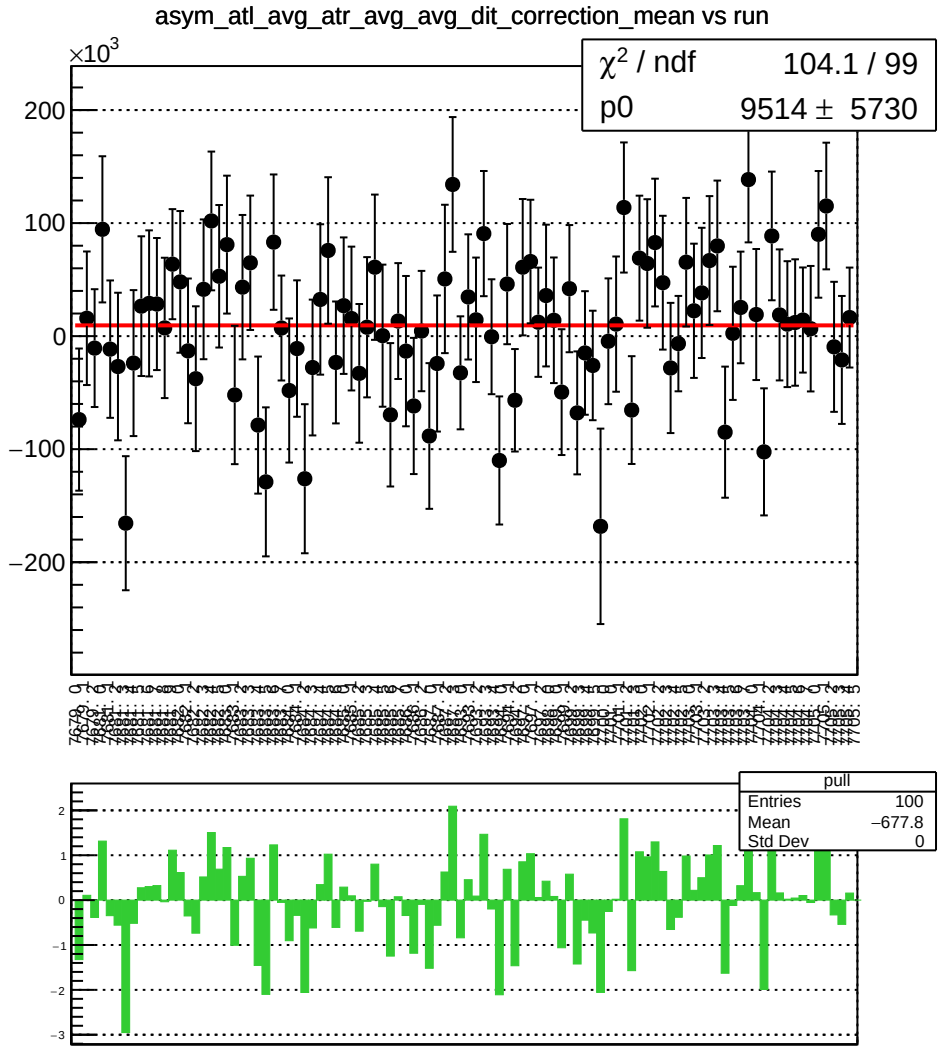
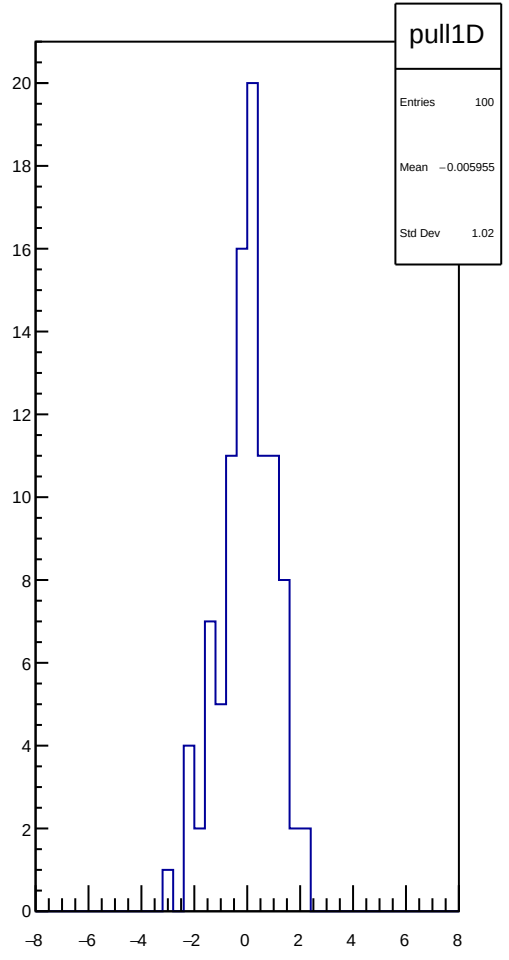
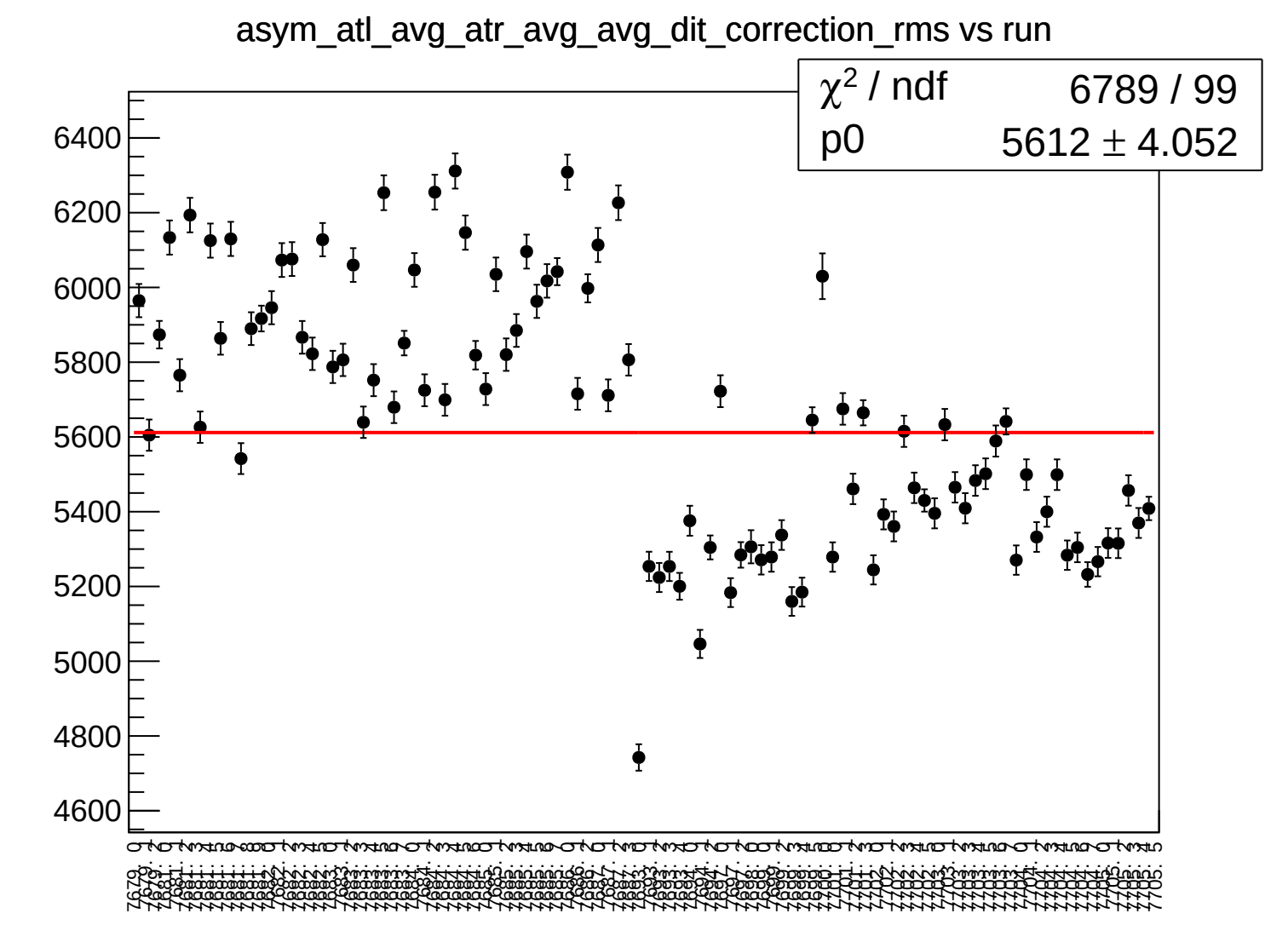
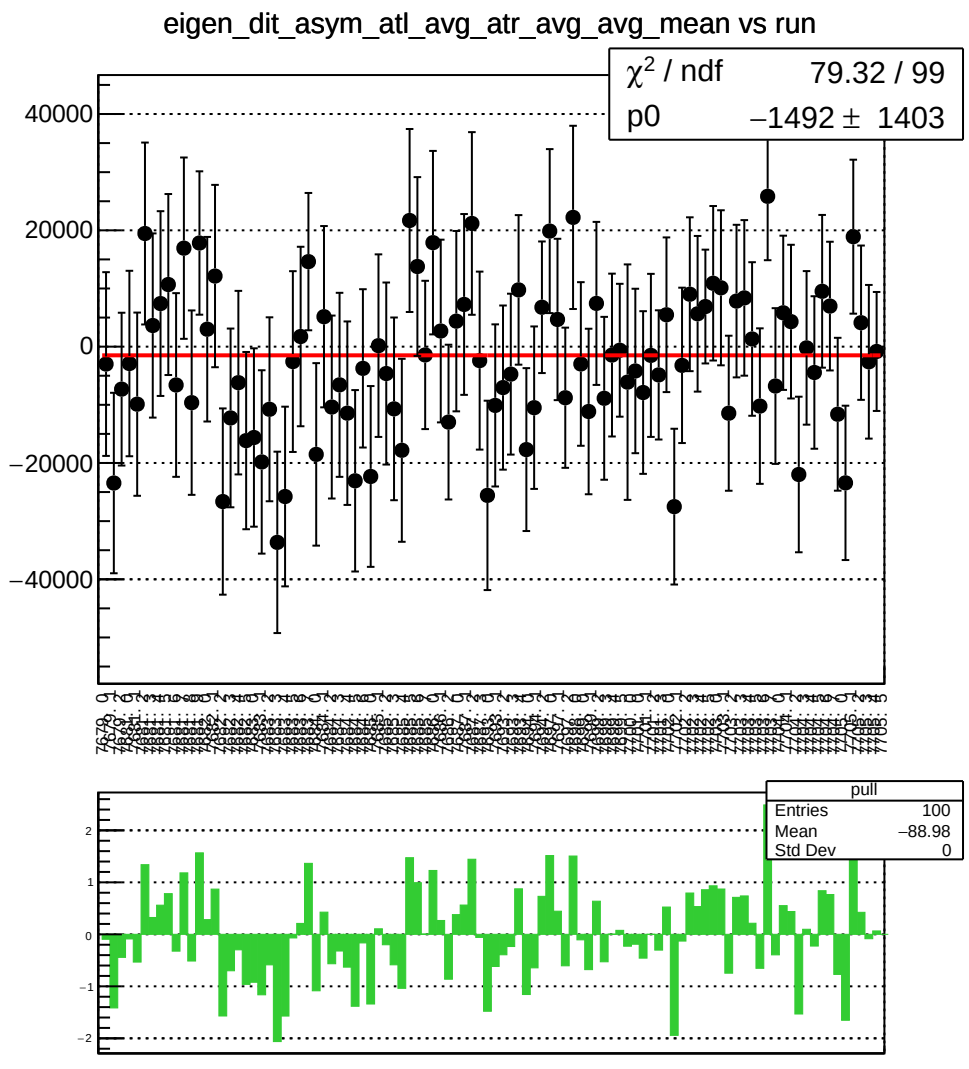
−6
−4
−2
0
2
4
6
8

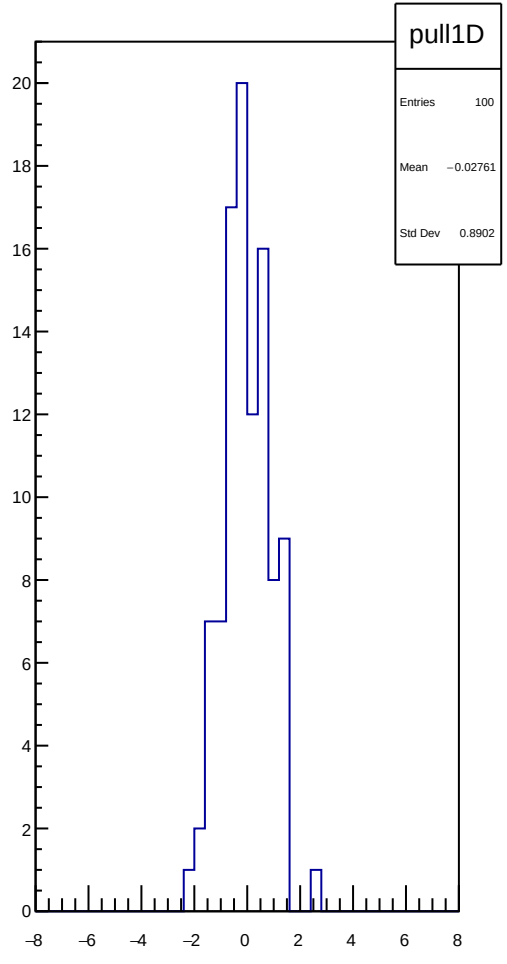

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1.099e+04 / 99
p0 1372 ± 0.9919
1550
1500
1450
1400
1350
1300
1250

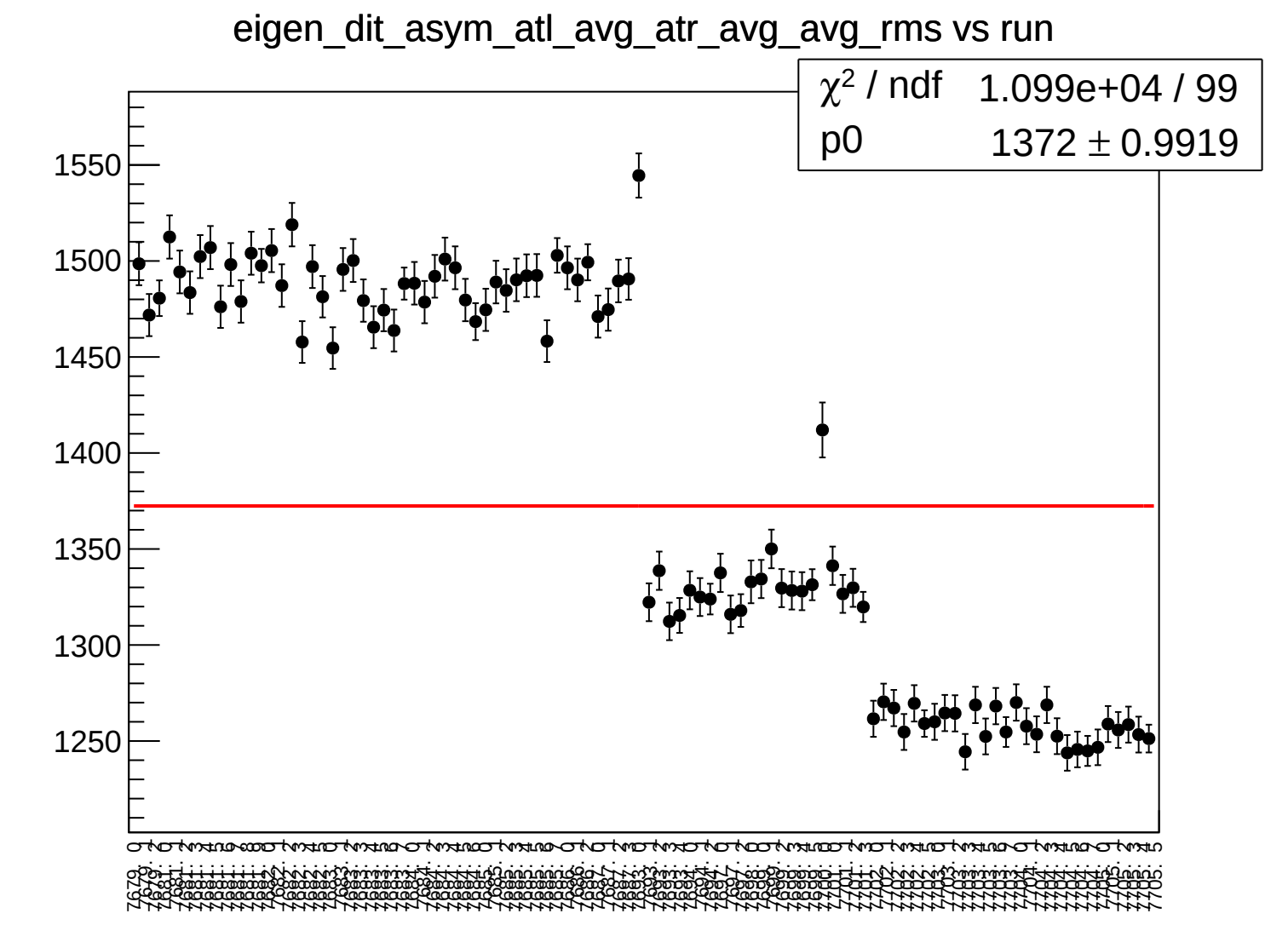

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 104.1 / 99
p0 9514 ± 5730
200
100
0
−100
−200
pull
Entries 100
Mean −677.8
Std Dev 0
2
1
0
−1
−2
−3

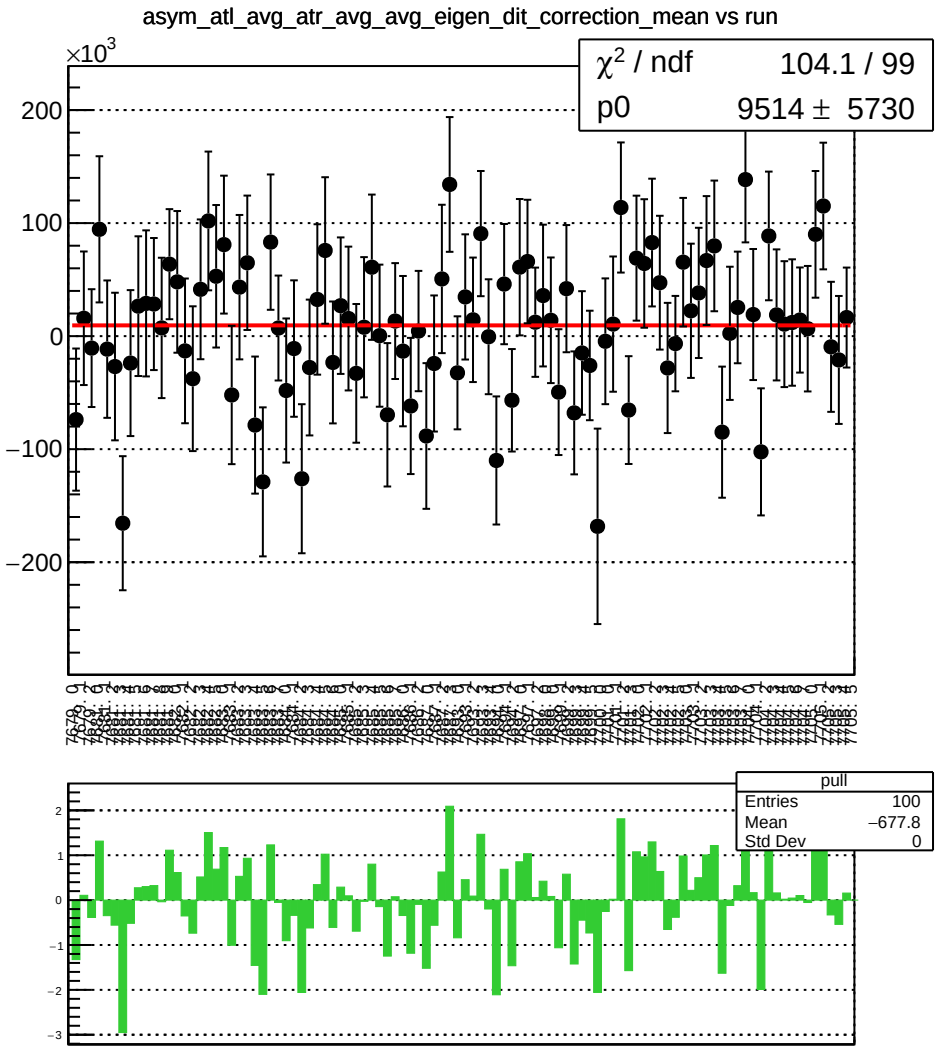

pull1D
Entries 100
Mean −0.005955
Std Dev 1.02
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

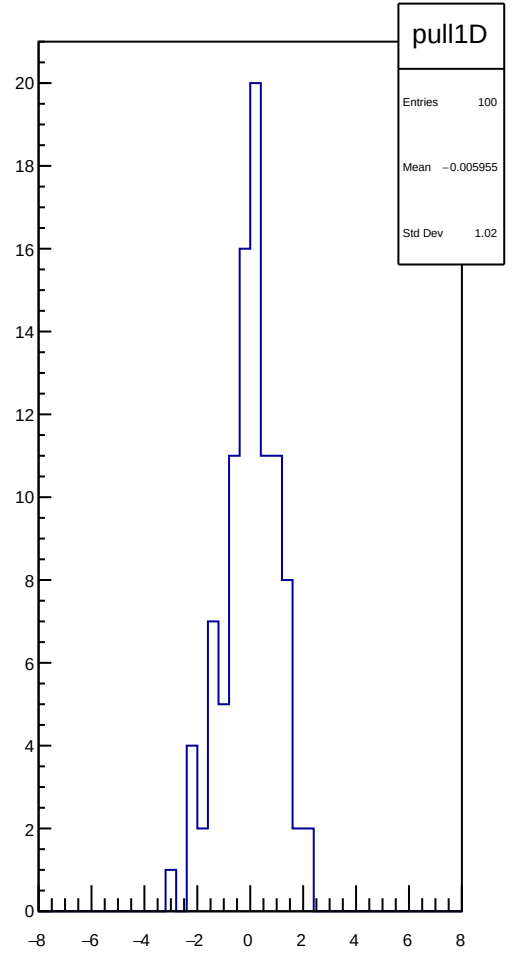

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ^2 / ndf 6789 / 99
p0 5612 ± 4.052
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600


eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 79.32 / 99
p0 −1492 ± 1403
40000
20000
0
−20000
−40000
pull
Entries 100
Mean −88.98
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 100
Mean −0.02761
Std Dev 0.8902
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1.099e+04 / 99
p0 1372 ± 0.9919
1550
1500
1450
1400
1350
1300
1250


asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 104.1 / 99
p0 9514 ± 5730
200
100
0
−100
−200
pull
Entries 100
Mean −677.8
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 100
Mean −0.005955
Std Dev 1.02
20
18
16
14
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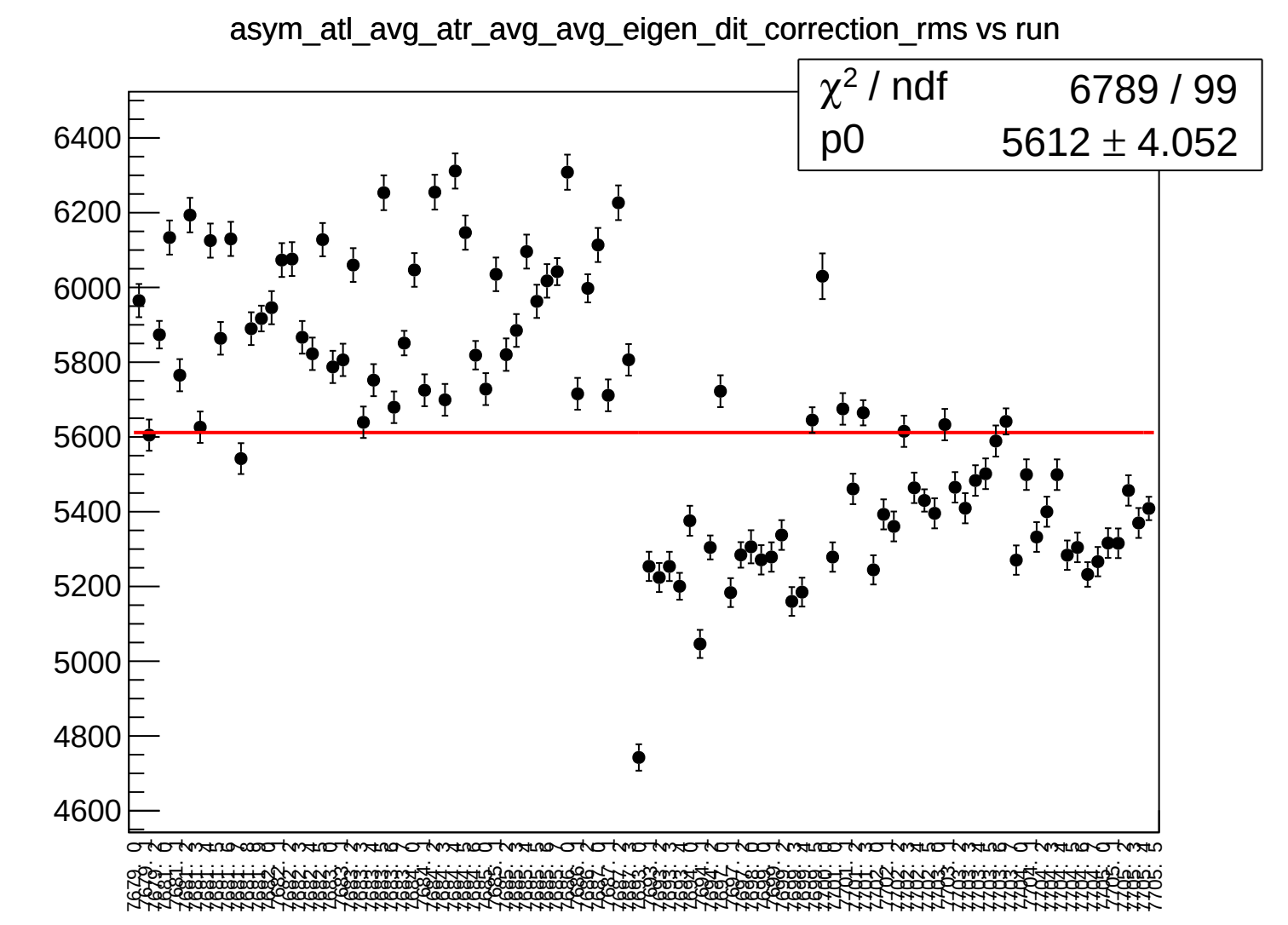
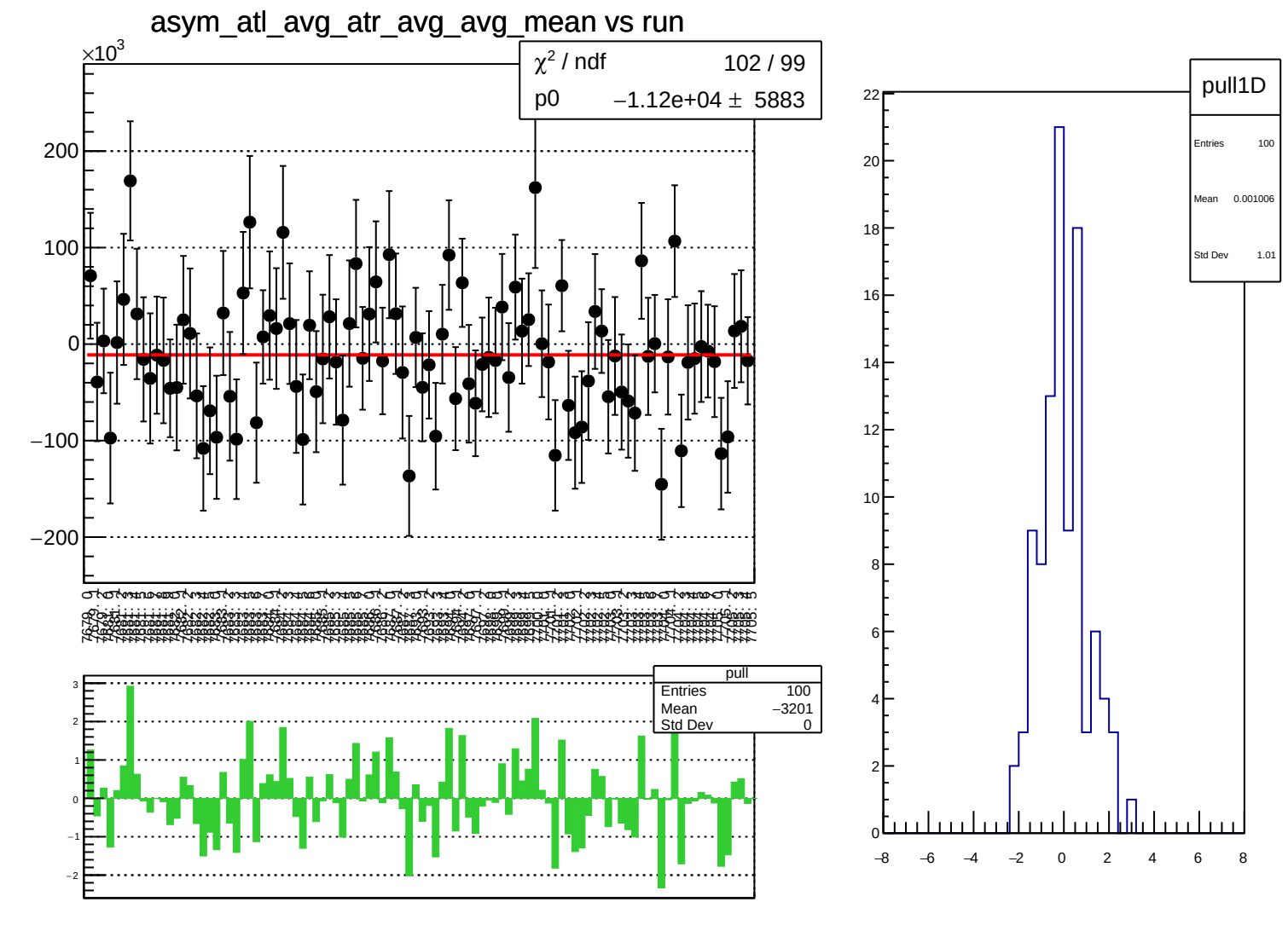
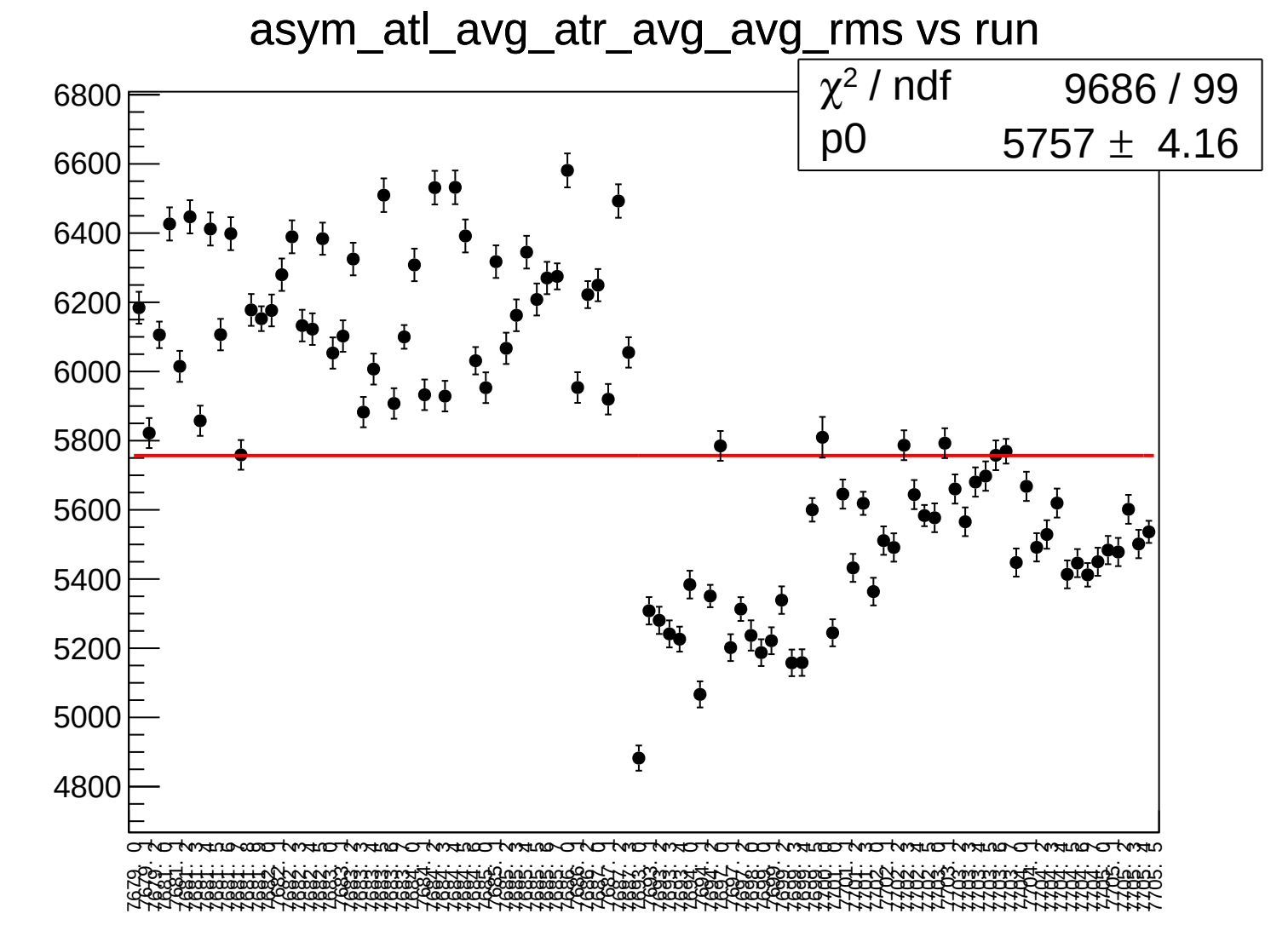
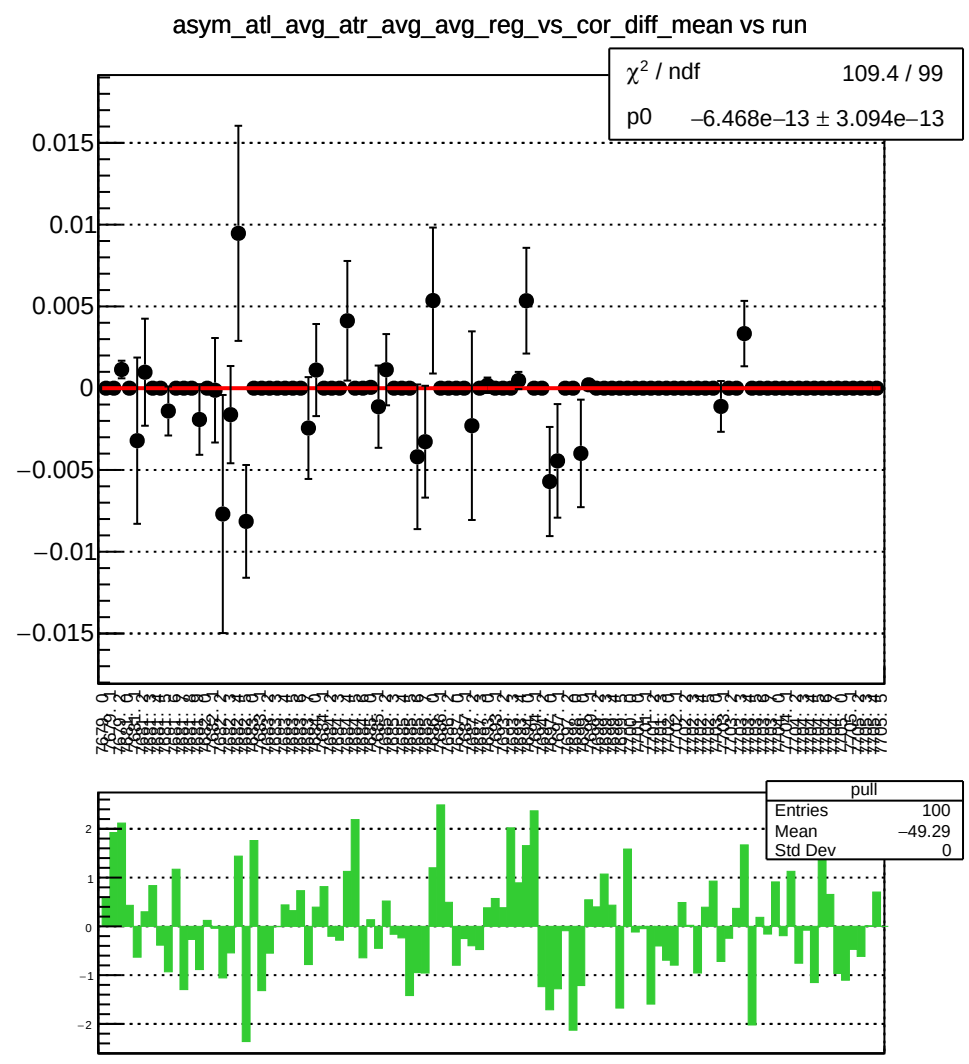
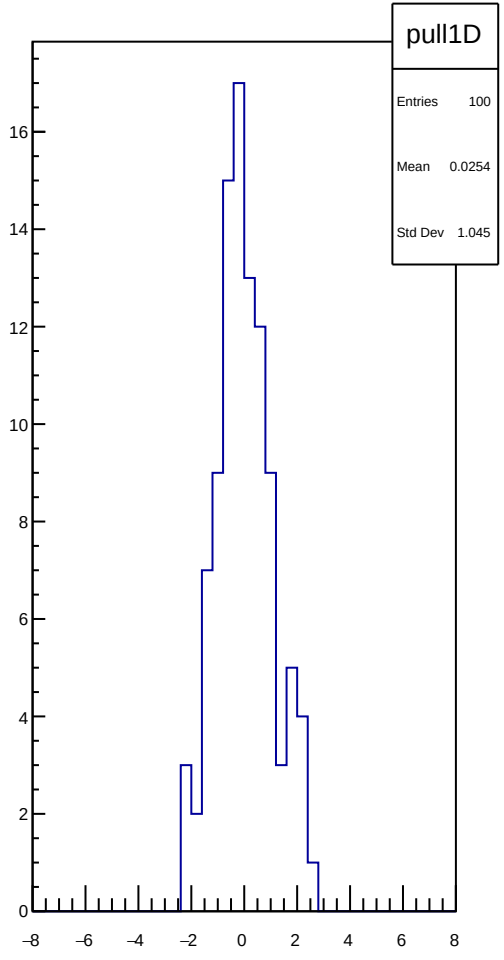
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

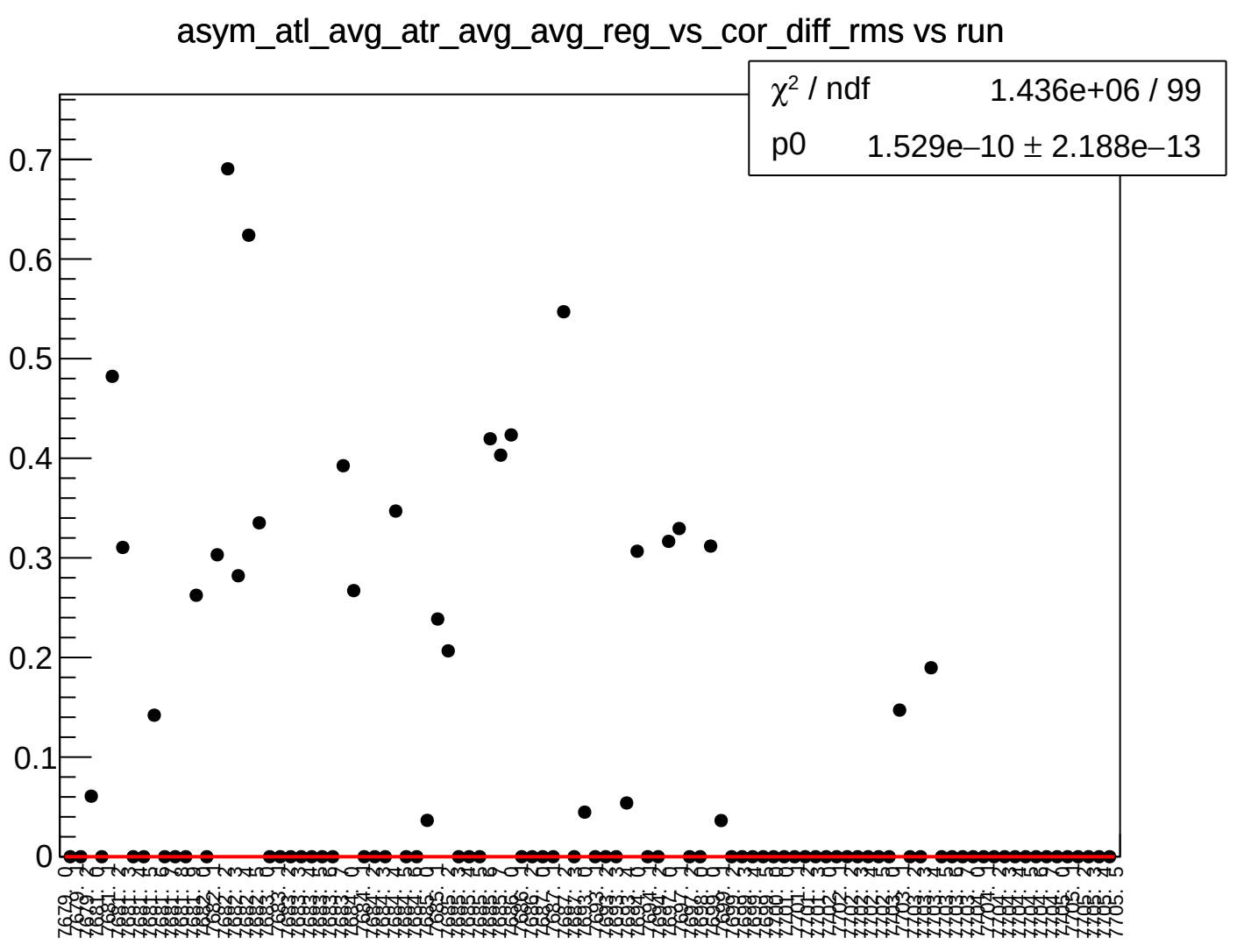

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 6789 / 99
p0 5612 ± 4.052
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

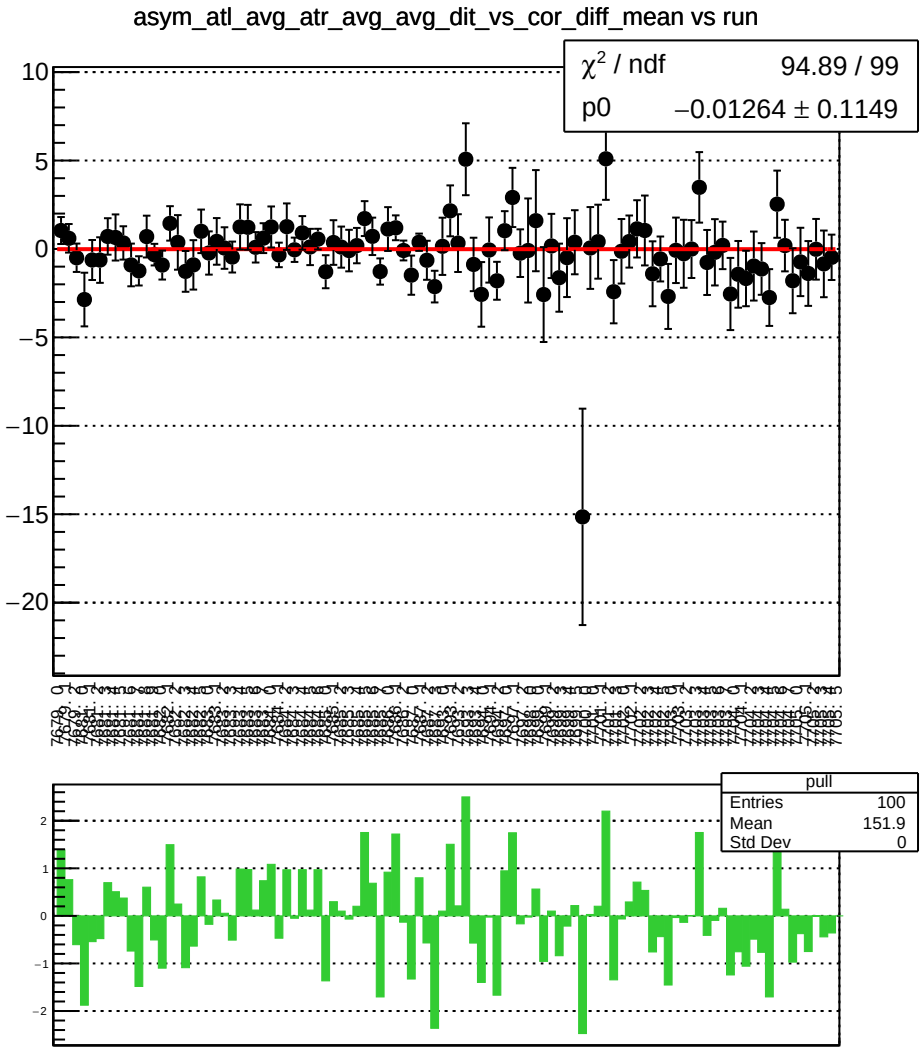

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 102 / 99
p0 −1.12e+04 ± 5883
200
100
0
−100
−200
pull
Entries 100
Mean −3201
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.001006
Std Dev 1.01
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

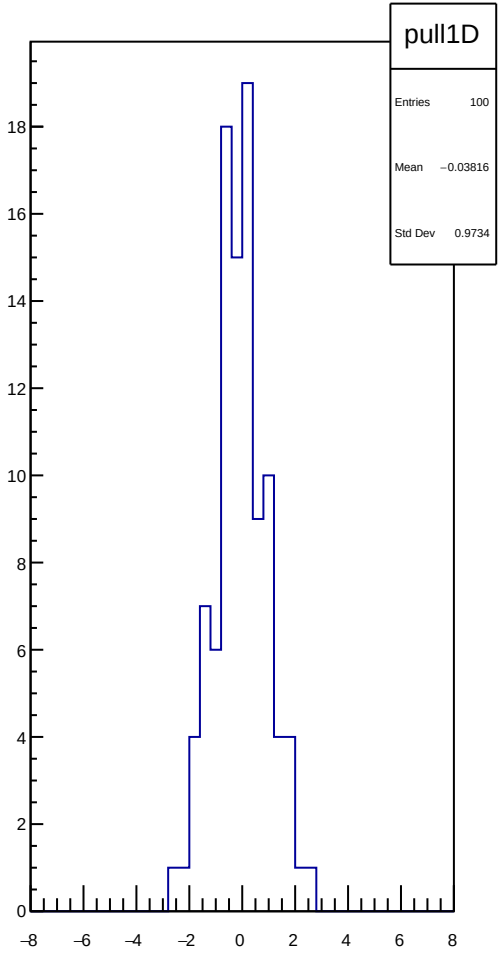

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 9686 / 99
p0 5757 ± 4.16
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

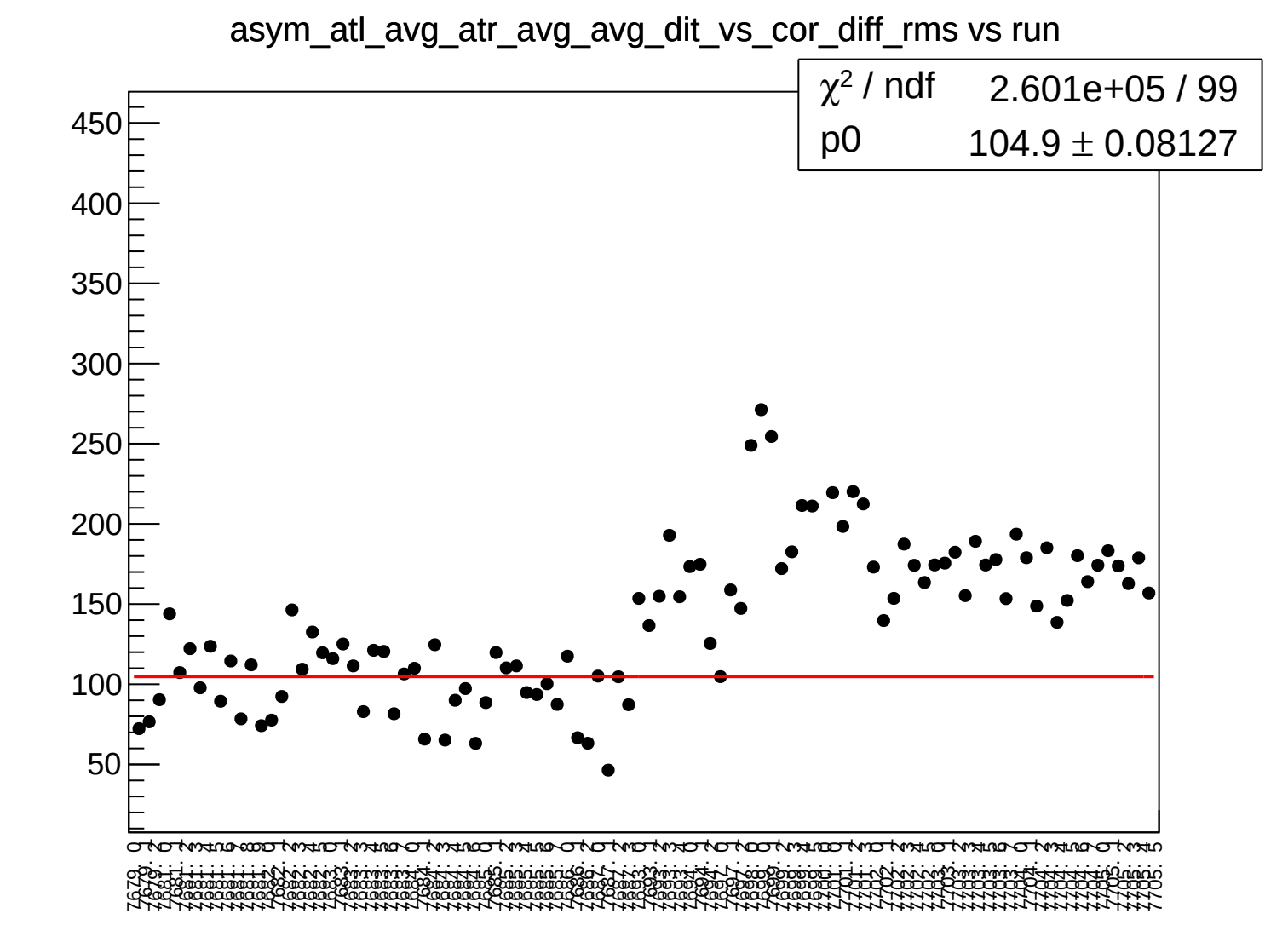

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 109.4 / 99
p0 −6.468e−13 ± 3.094e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 100
Mean −49.29
Std Dev 0
2
1
0
−1
−2

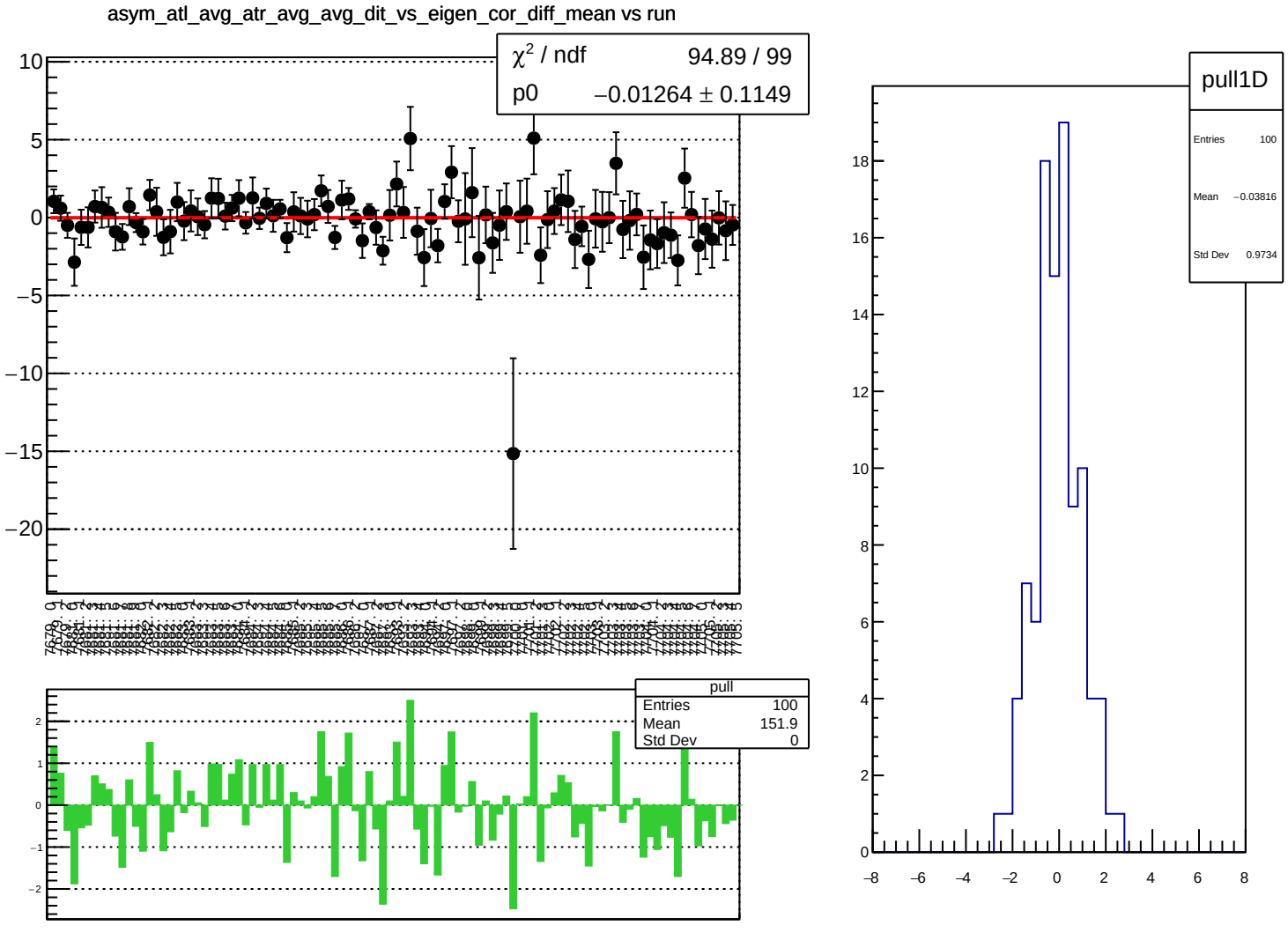

pull1D
Entries 100
Mean 0.0254
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

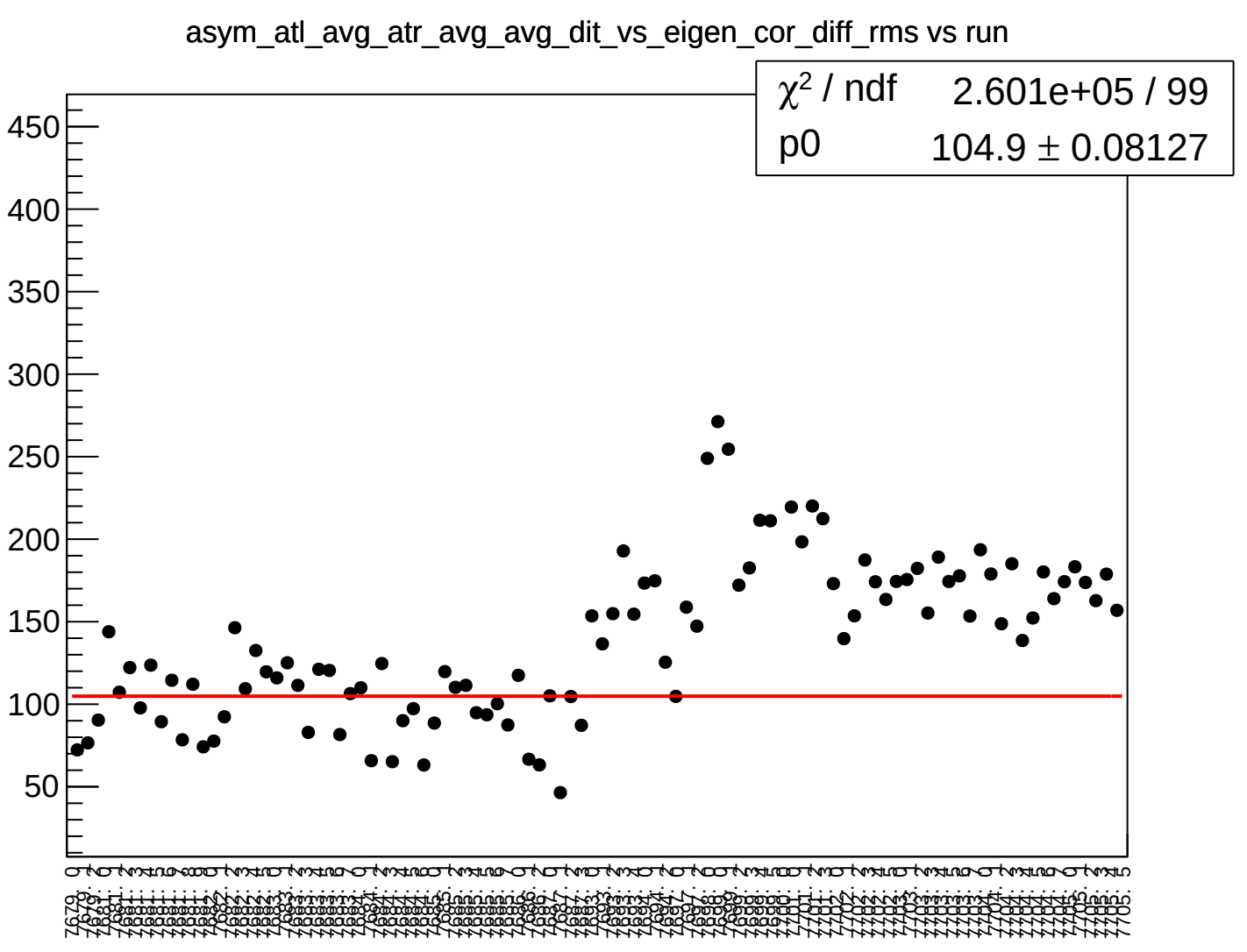

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.436e+06 / 99
p0 1.529e−10 ± 2.188e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

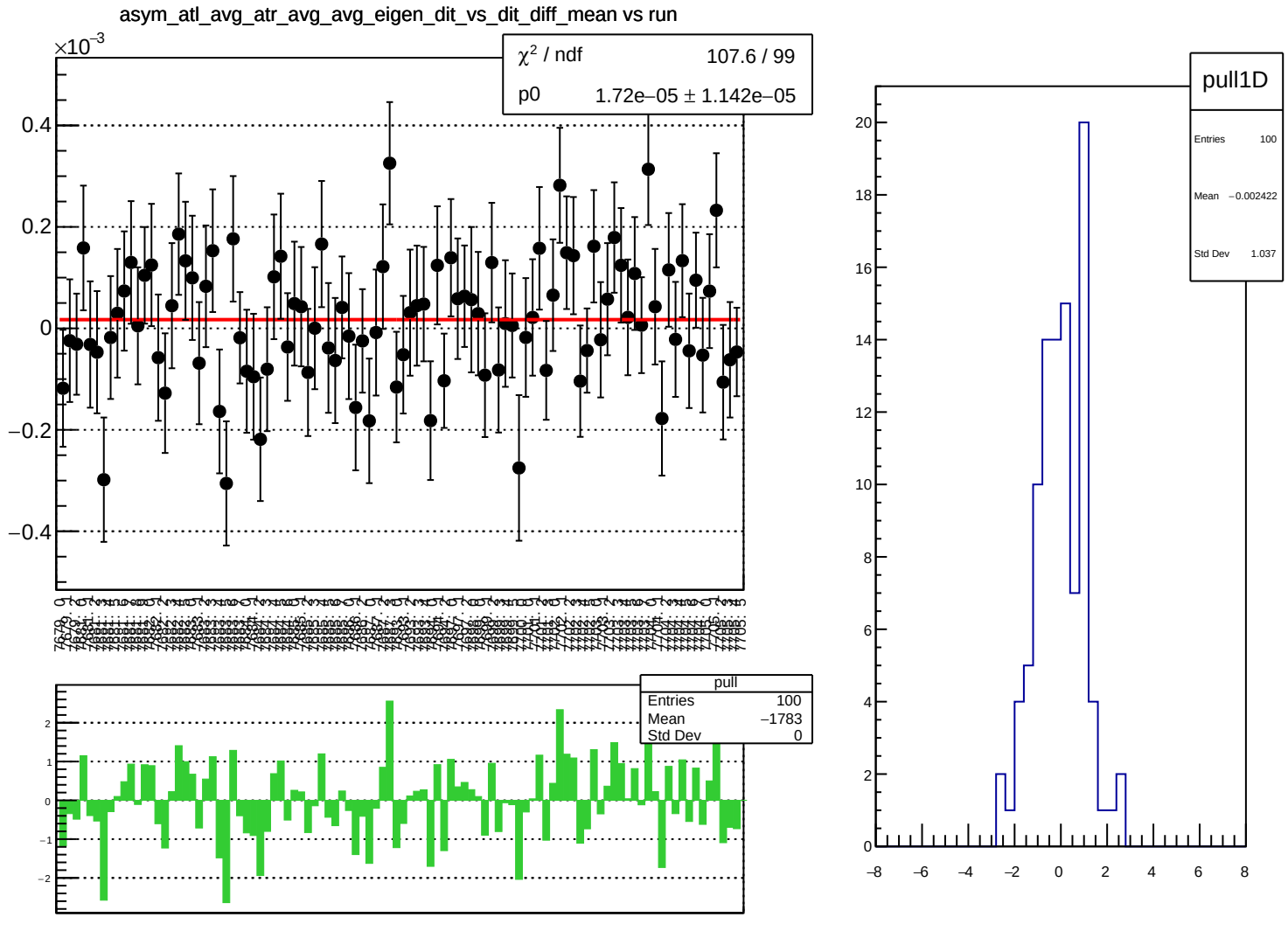

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 94.89 / 99
p0 −0.01264 ± 0.1149
pull
Entries 100
Mean 151.9
Std Dev 0

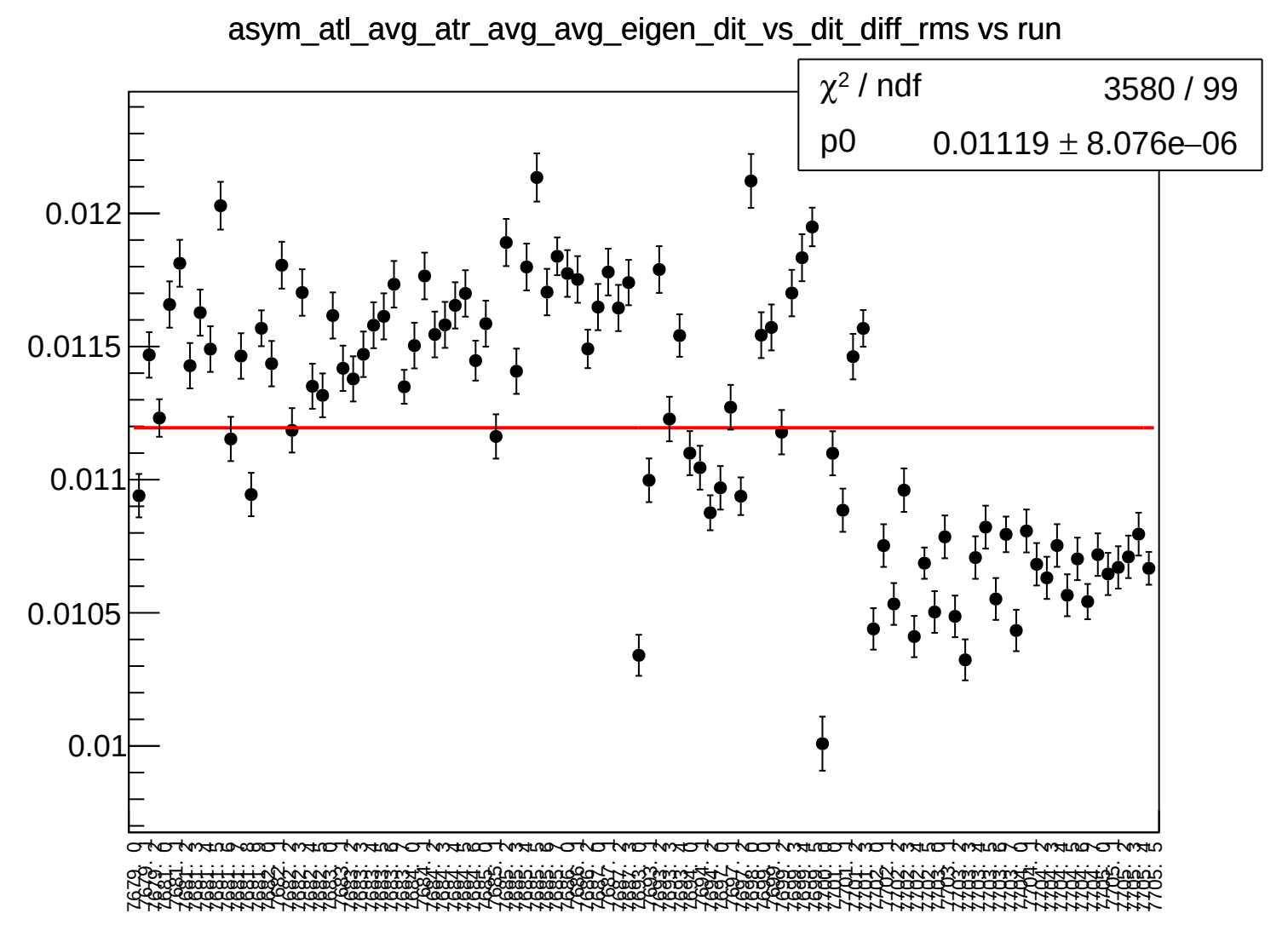

pull1D
Entries 100
Mean −0.03816
Std Dev 0.9734

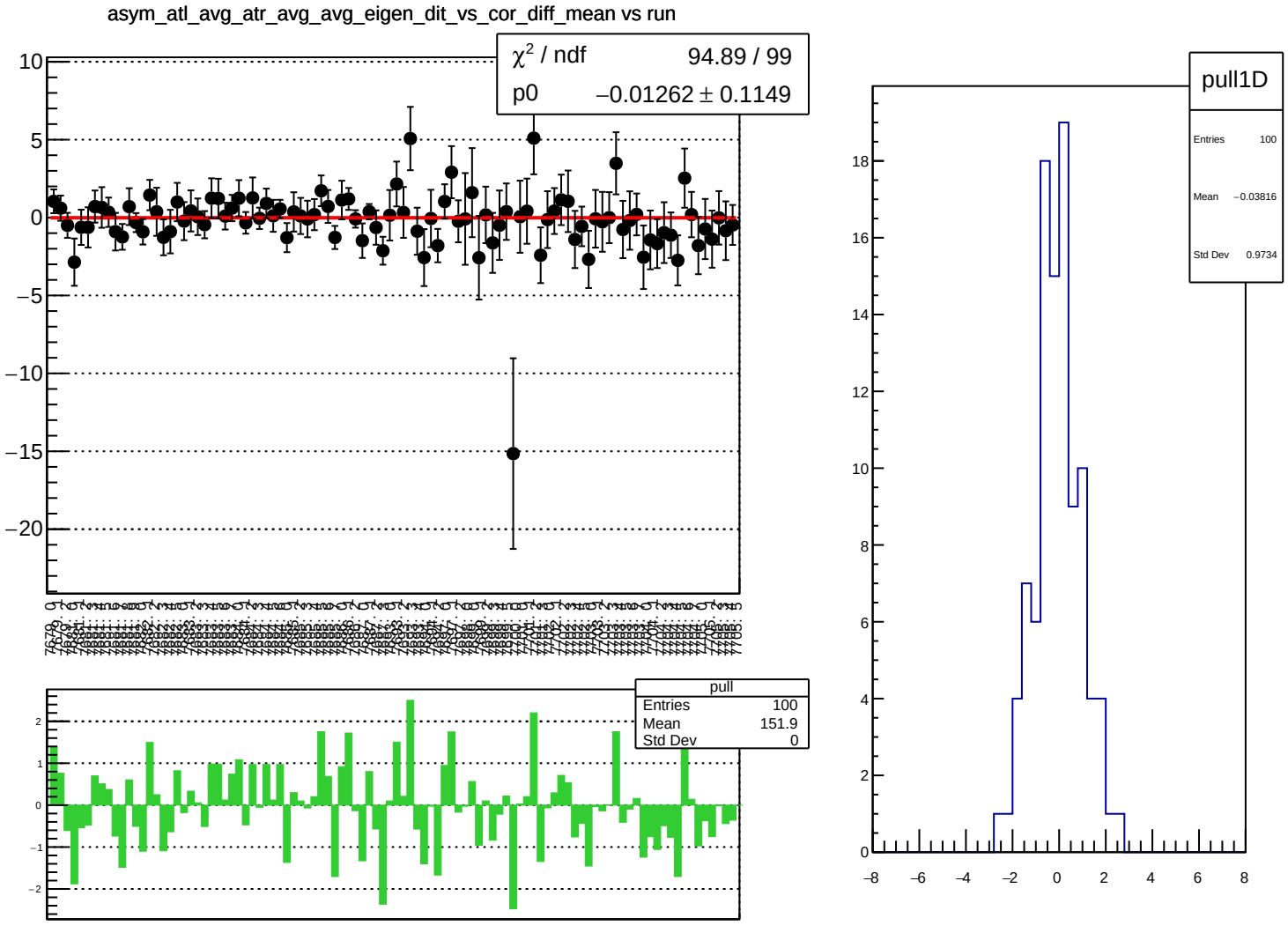

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.601e+05 / 99
p0 104.9 ± 0.08127
450
400
350
300
250
200
150
100
50

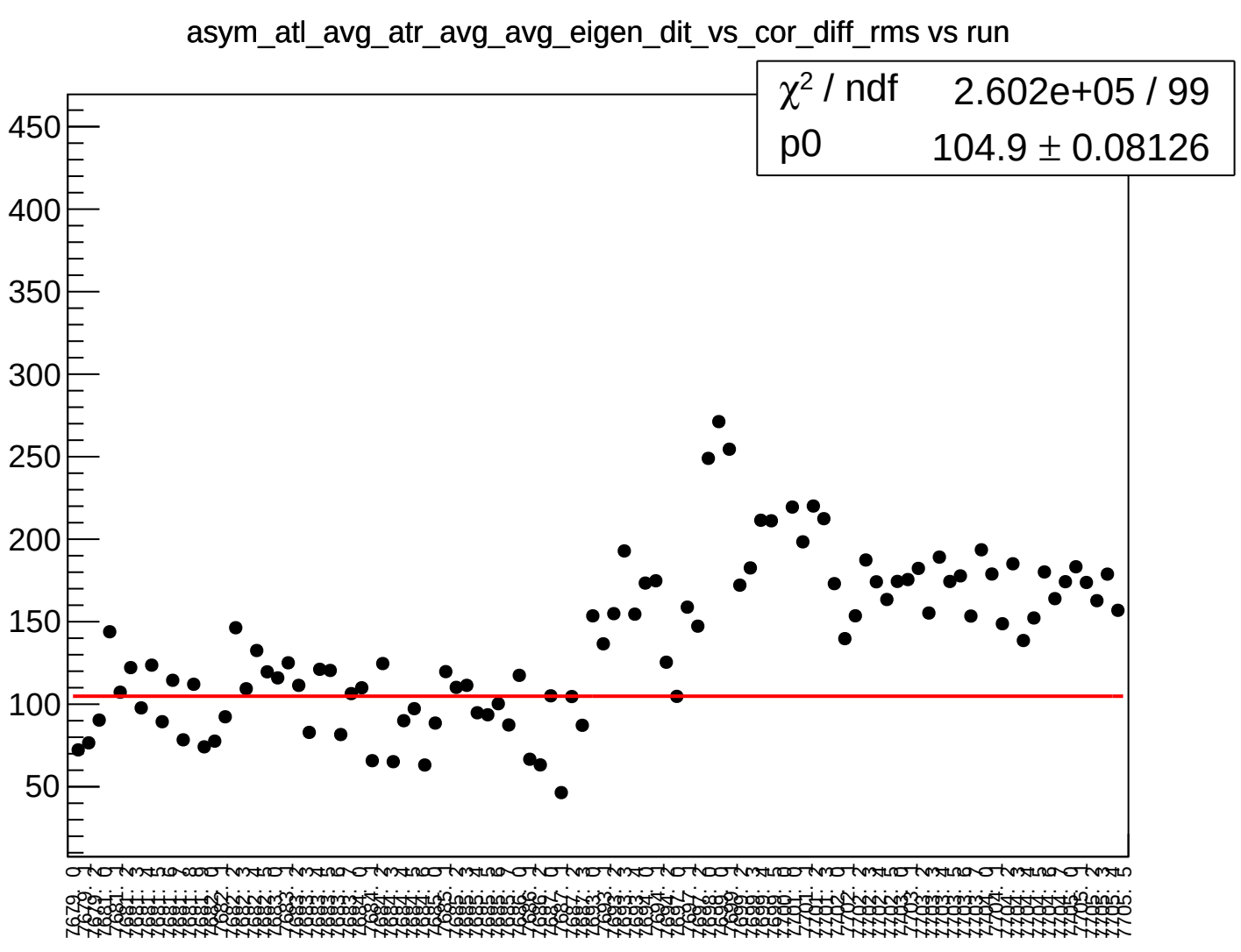

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.89 / 99
p0 −0.01264 ± 0.1149
pull
Entries 100
Mean 151.9
Std Dev 0
pull1D
Entries 100
Mean −0.03816
Std Dev 0.9734

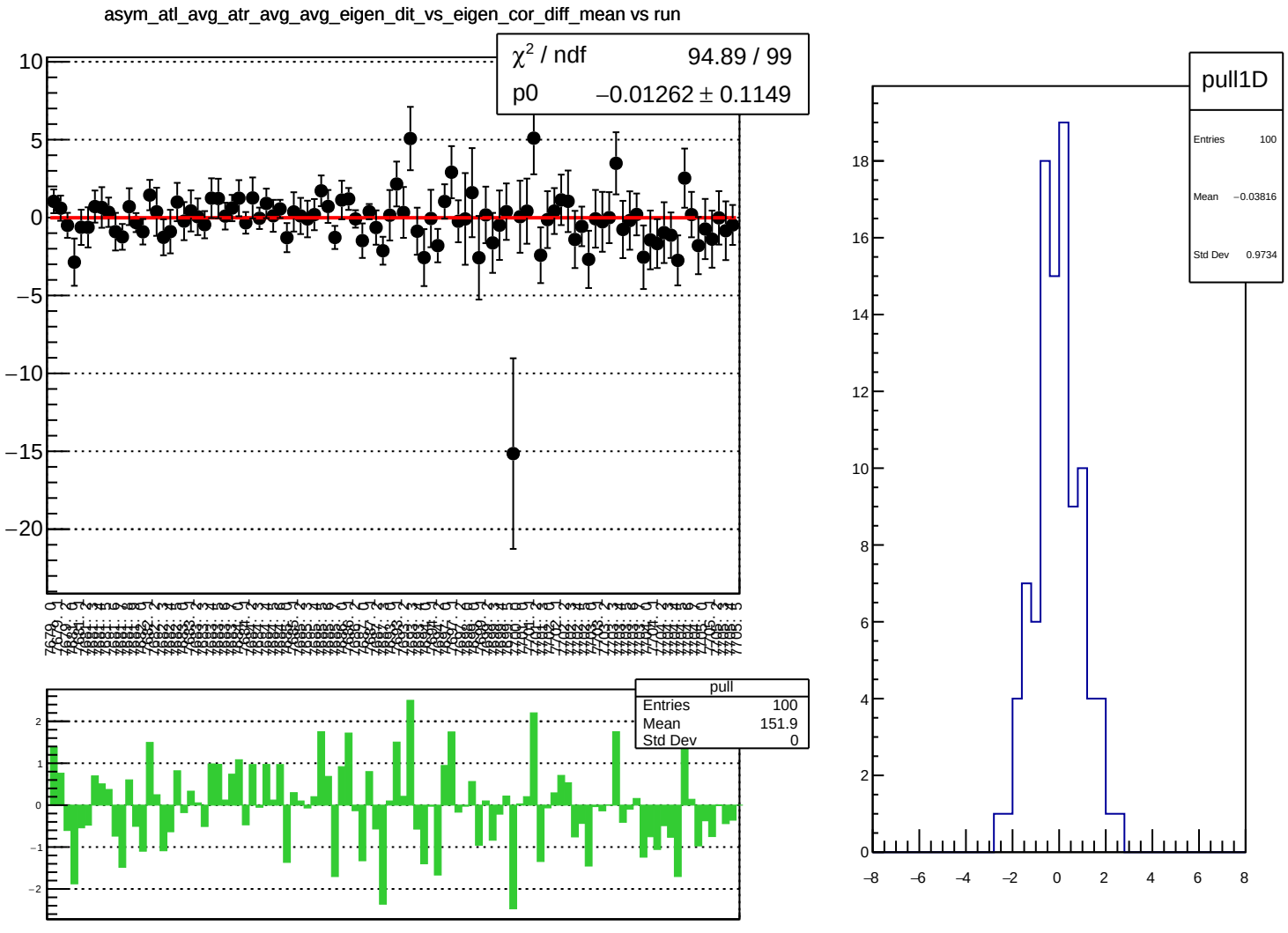

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.601e+05 / 99
p0 104.9 ± 0.08127
450
400
350
300
250
200
150
100
50

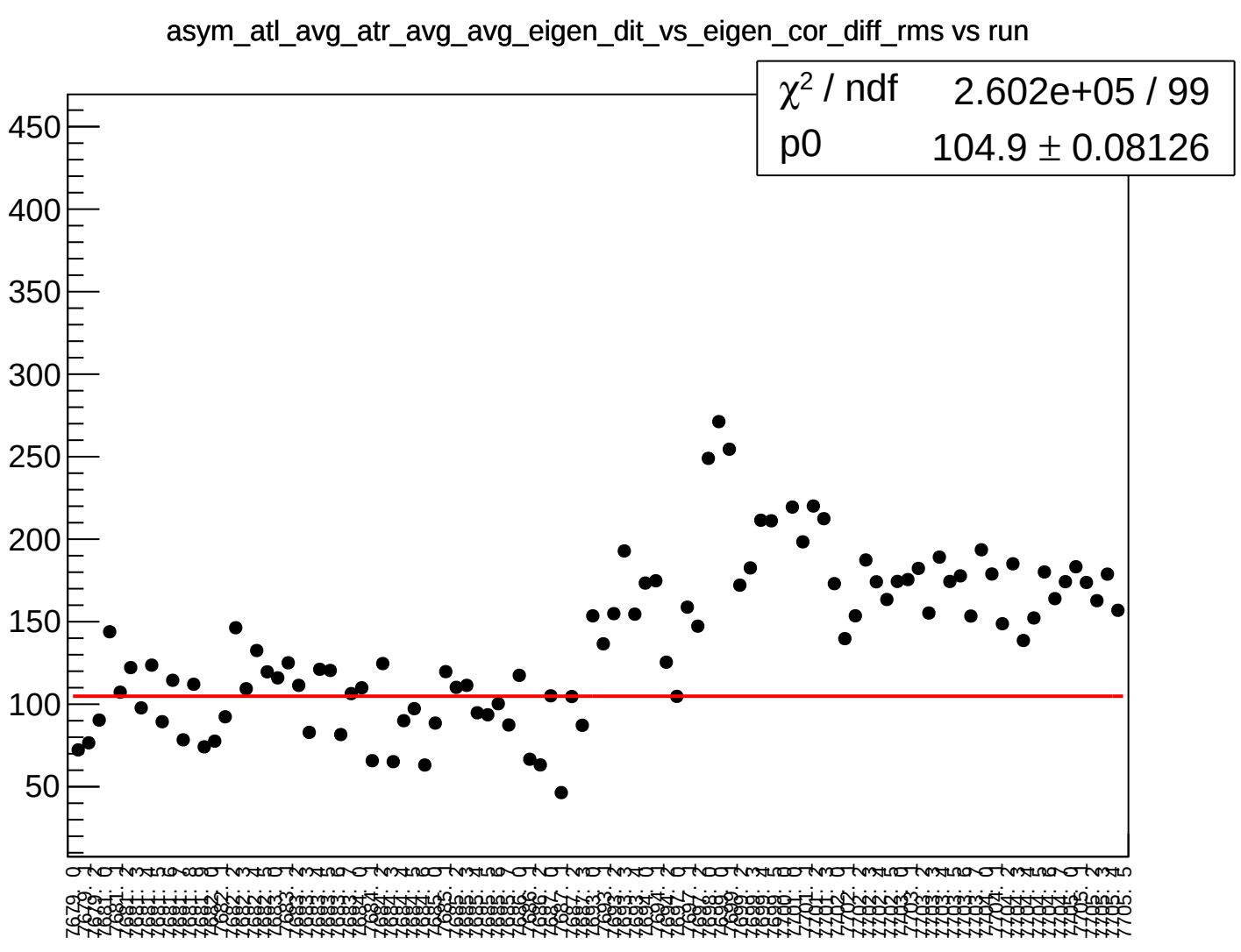

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 107.6 / 99
p0 1.72e−05 ± 1.142e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 100
Mean −1783
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.002422
Std Dev 1.037
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

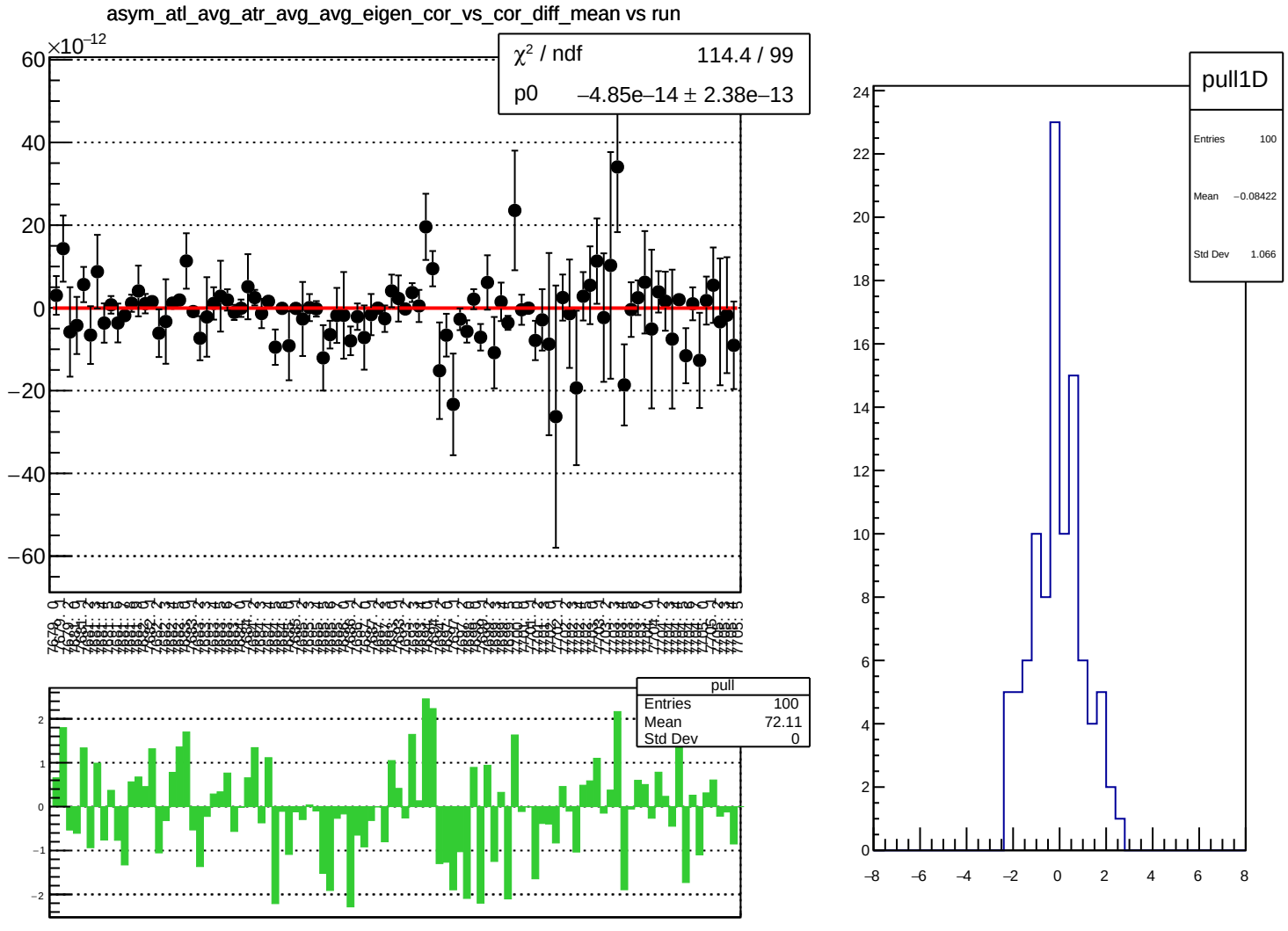

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3580 / 99
p0 0.01119 ± 8.076e−06
0.012
0.0115
0.011
0.0105
0.01

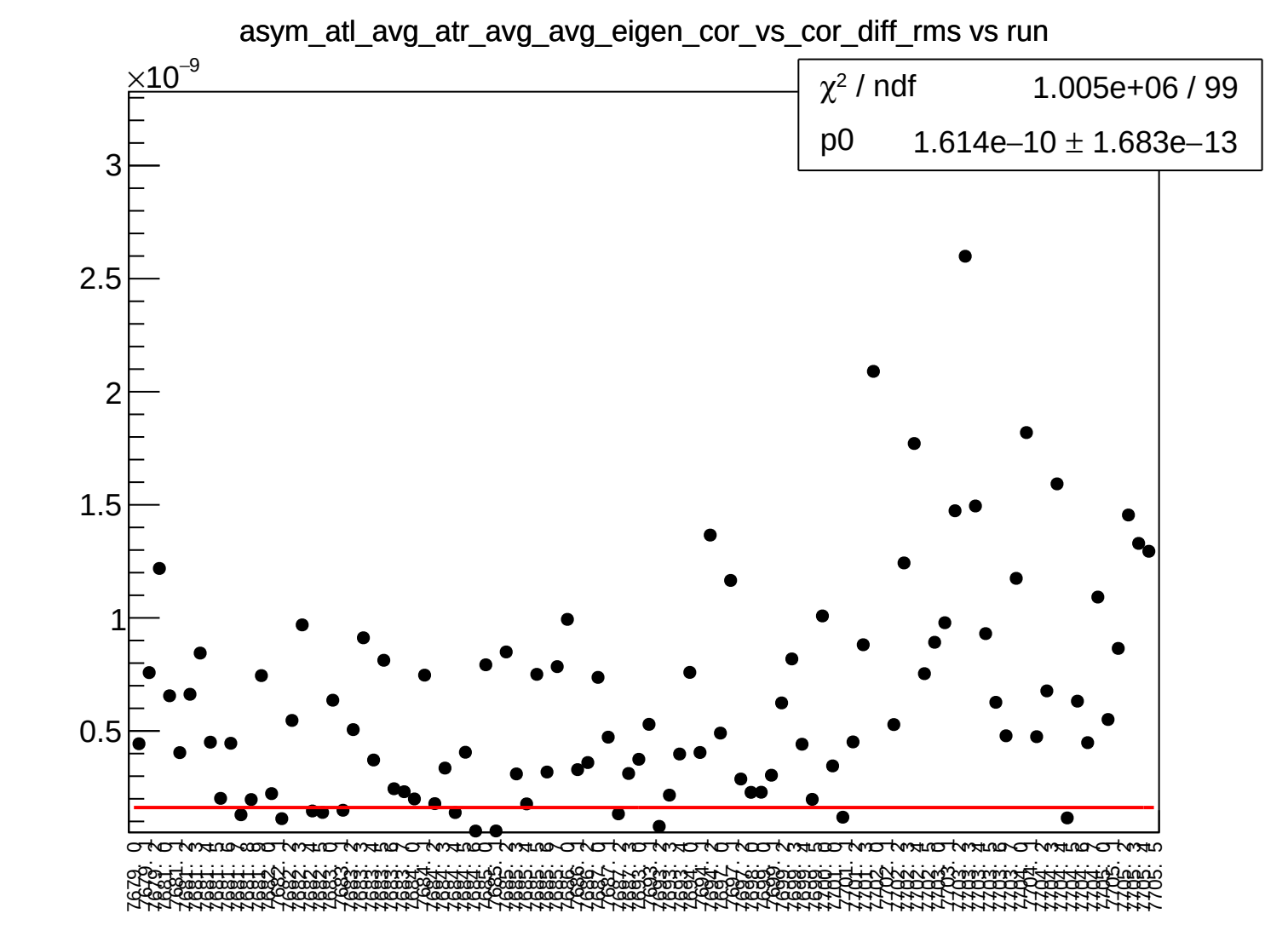

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.89 / 99
p0 −0.01262 ± 0.1149
pull
Entries 100
Mean 151.9
Std Dev 0
pull1D
Entries 100
Mean −0.03816
Std Dev 0.9734

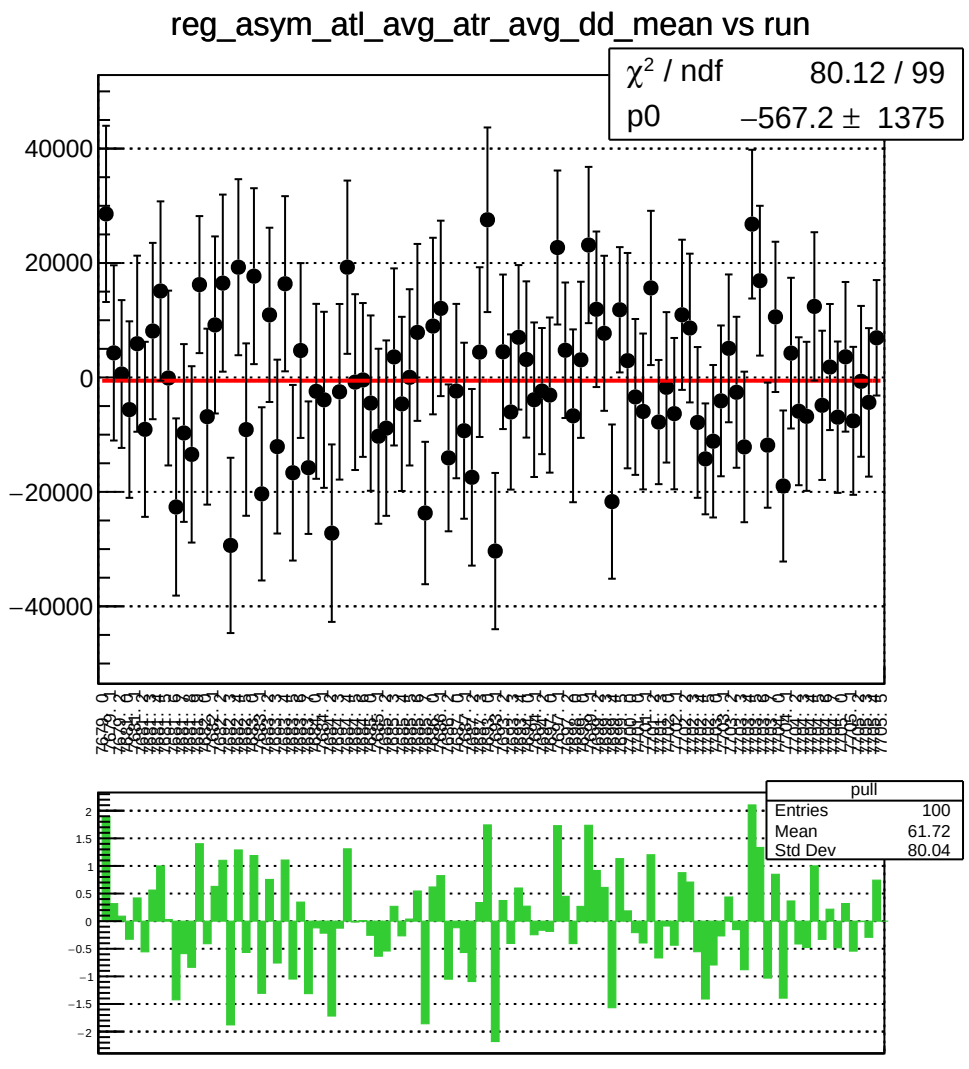

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.602e+05 / 99
p0 104.9 ± 0.08126
450
400
350
300
250
200
150
100
50

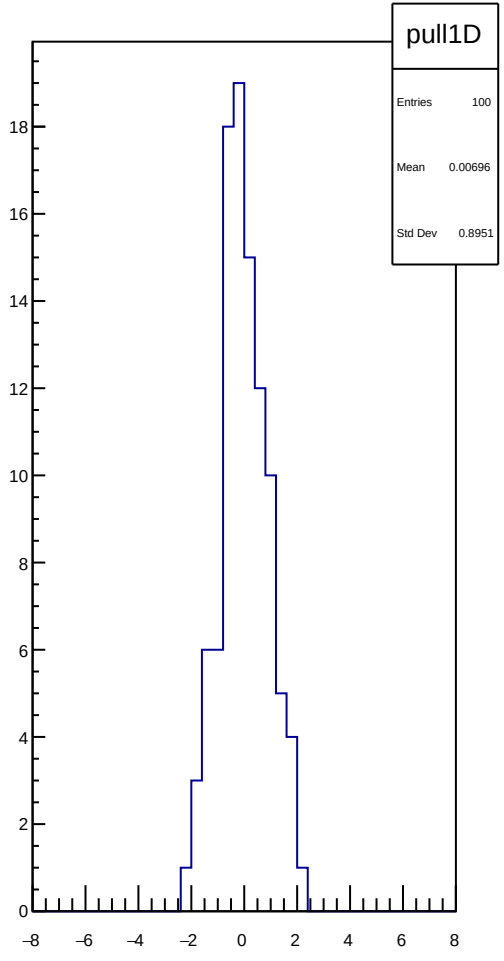

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.89 / 99
p0 −0.01262 ± 0.1149
pull
Entries 100
Mean 151.9
Std Dev 0
pull1D
Entries 100
Mean −0.03816
Std Dev 0.9734

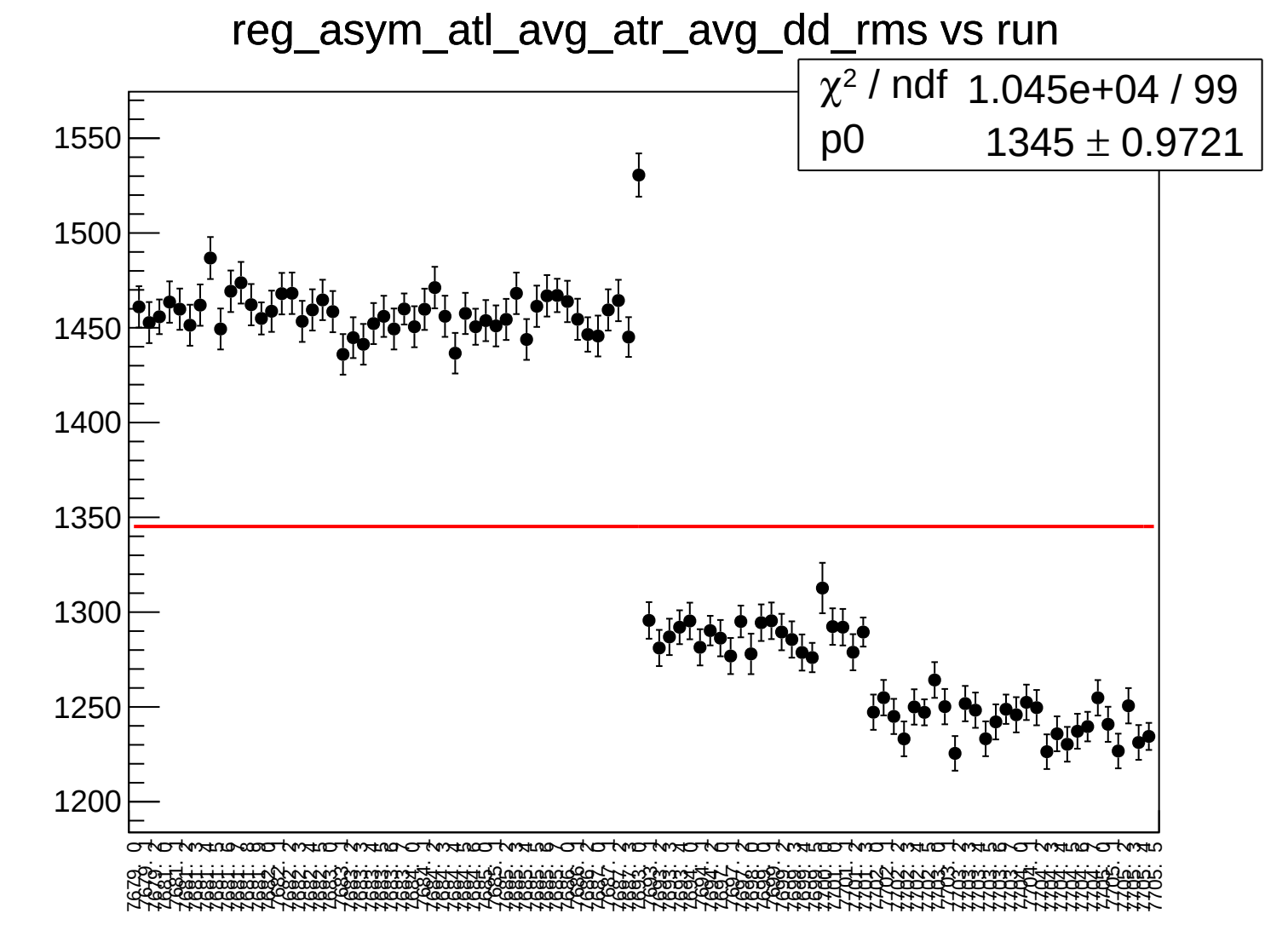

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.602e+05 / 99
p0 104.9 ± 0.08126
450
400
350
300
250
200
150
100
50

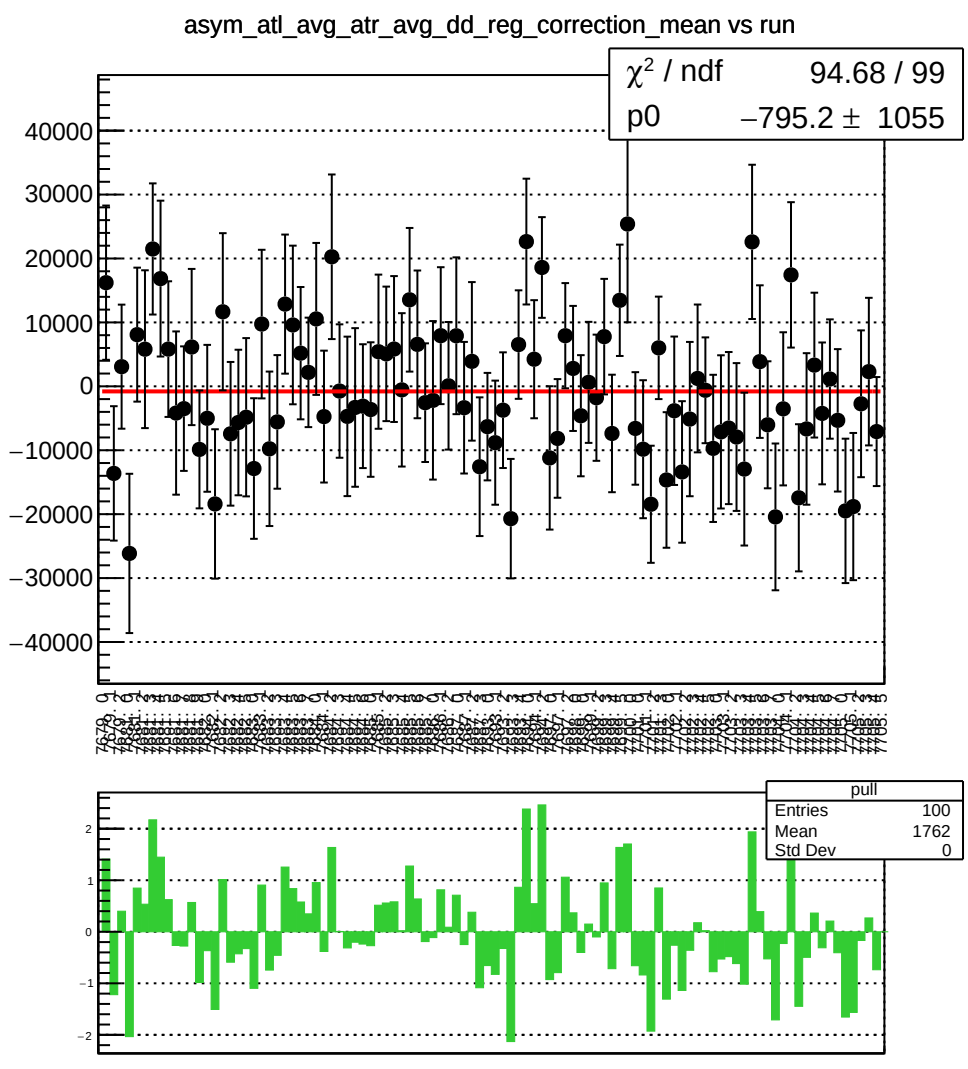

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 114.4 / 99
p0 −4.85e−14 ± 2.38e−13
pull
Entries 100
Mean 72.11
Std Dev 0
pull1D
Entries 100
Mean −0.08422
Std Dev 1.066

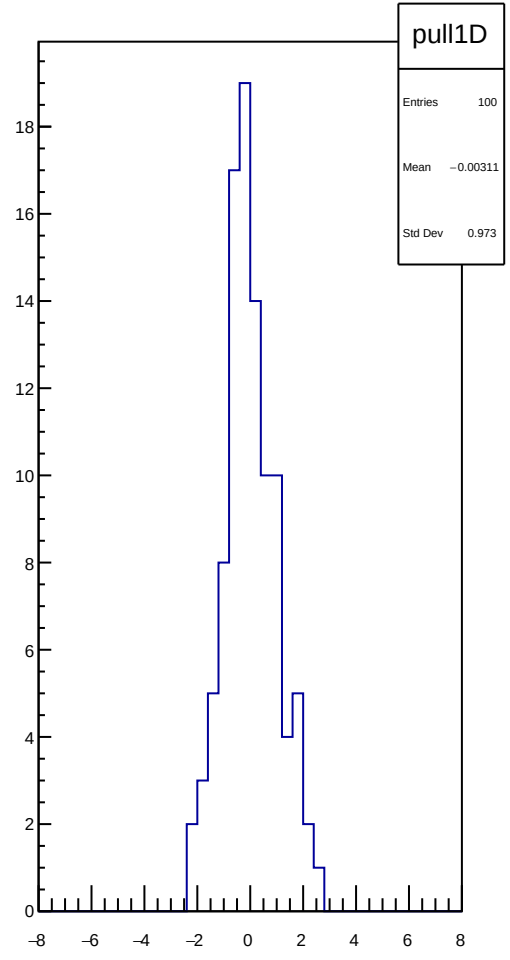

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.005e+06 / 99
p0 1.614e−10 ± 1.683e−13
3
2.5
2
1.5
1
0.5

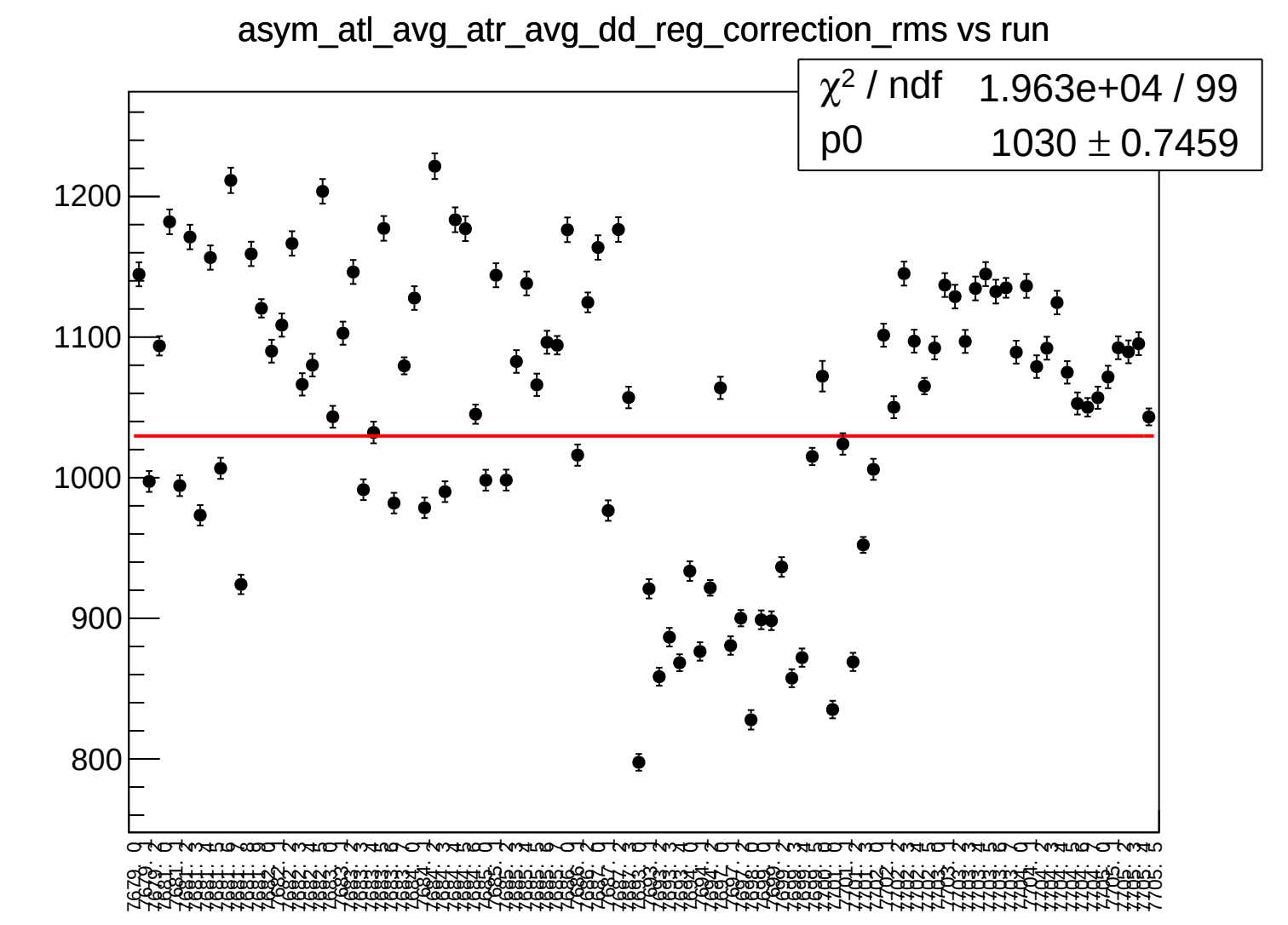

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 80.12 / 99
p0 −567.2 ± 1375
40000
20000
0
−20000
−40000
pull
Entries 100
Mean 61.72
Std Dev 80.04
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

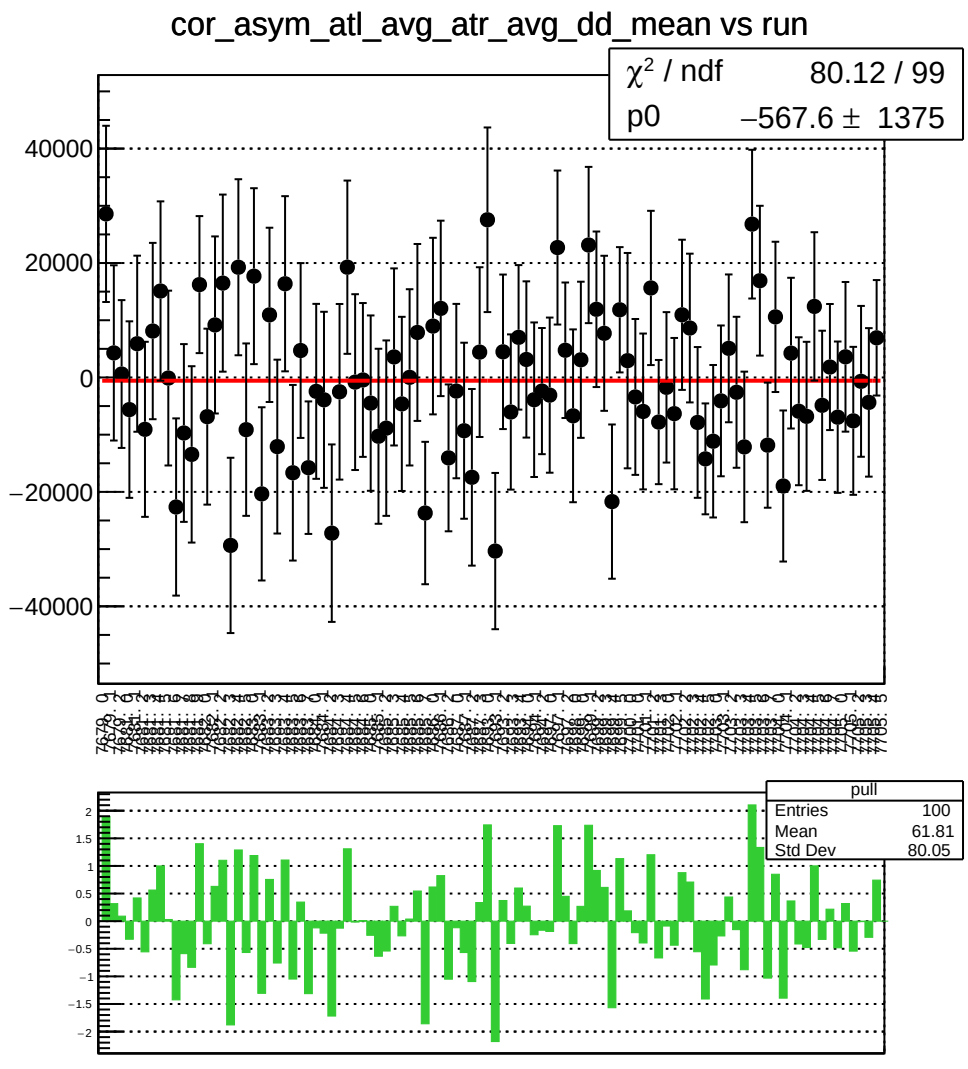

pull1D
Entries 100
Mean 0.00696
Std Dev 0.8951
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

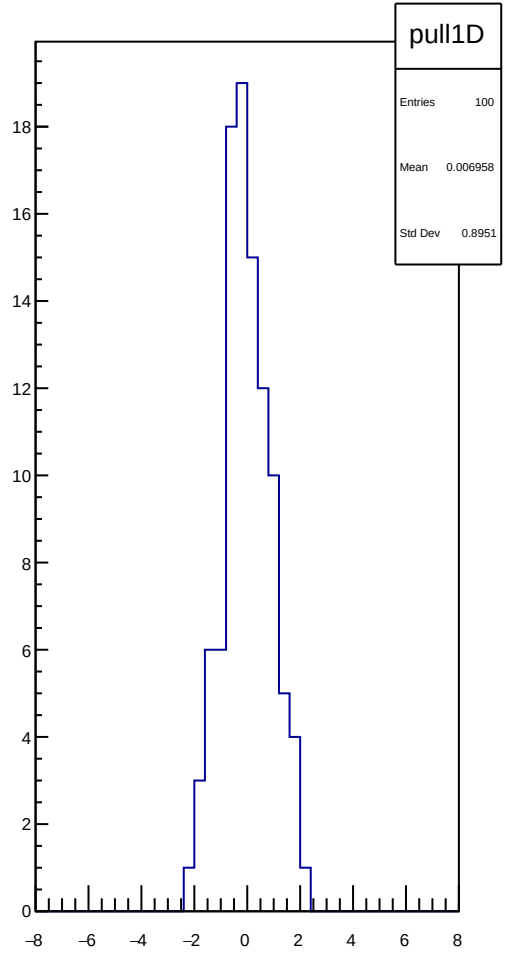

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1.045e+04 / 99
p0 1345 ± 0.9721
1550
1500
1450
1400
1350
1300
1250
1200

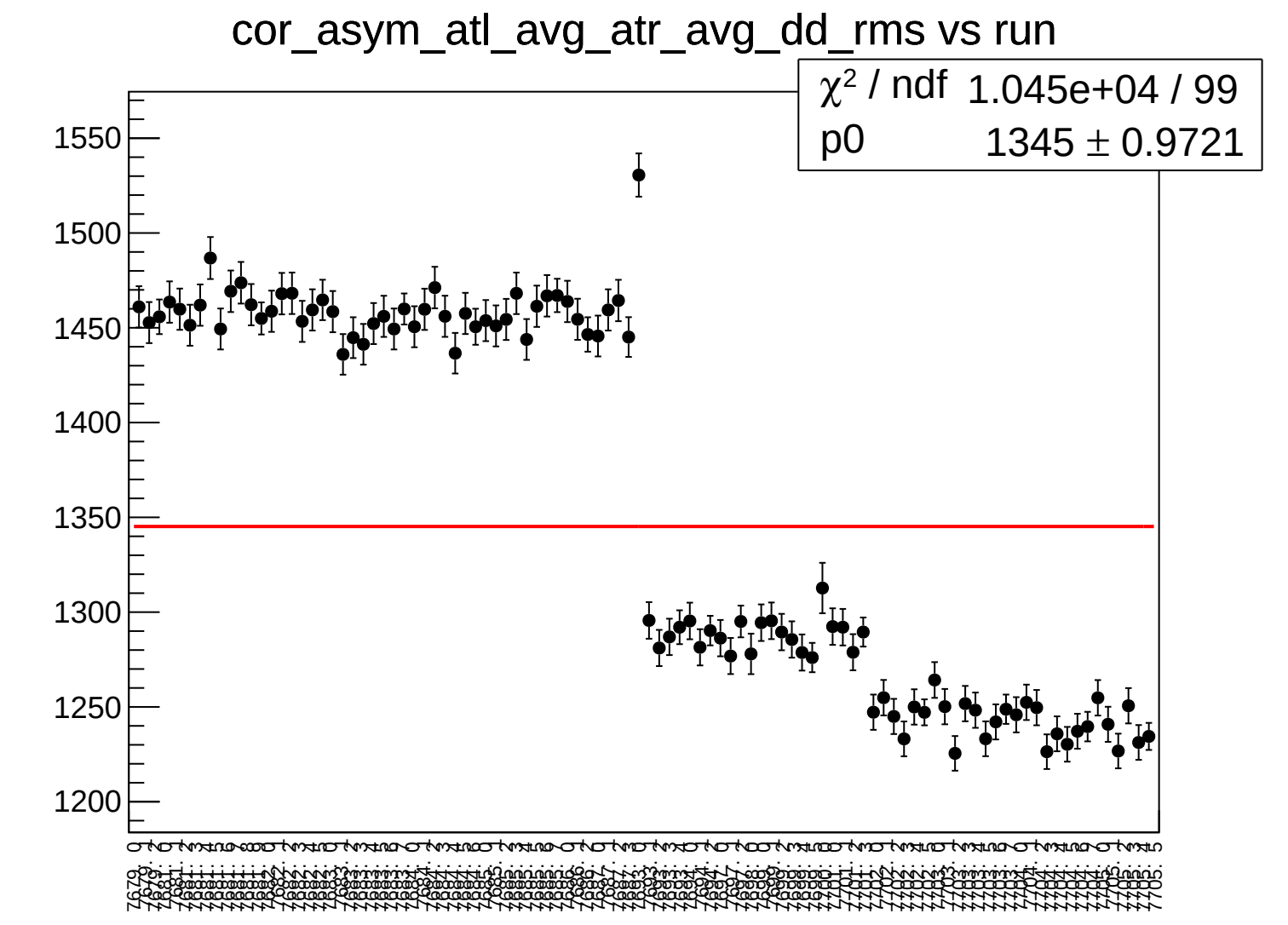

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 94.68 / 99
p0 −795.2 ± 1055
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 100
Mean 1762
Std Dev 0
2
1
0
−1
−2

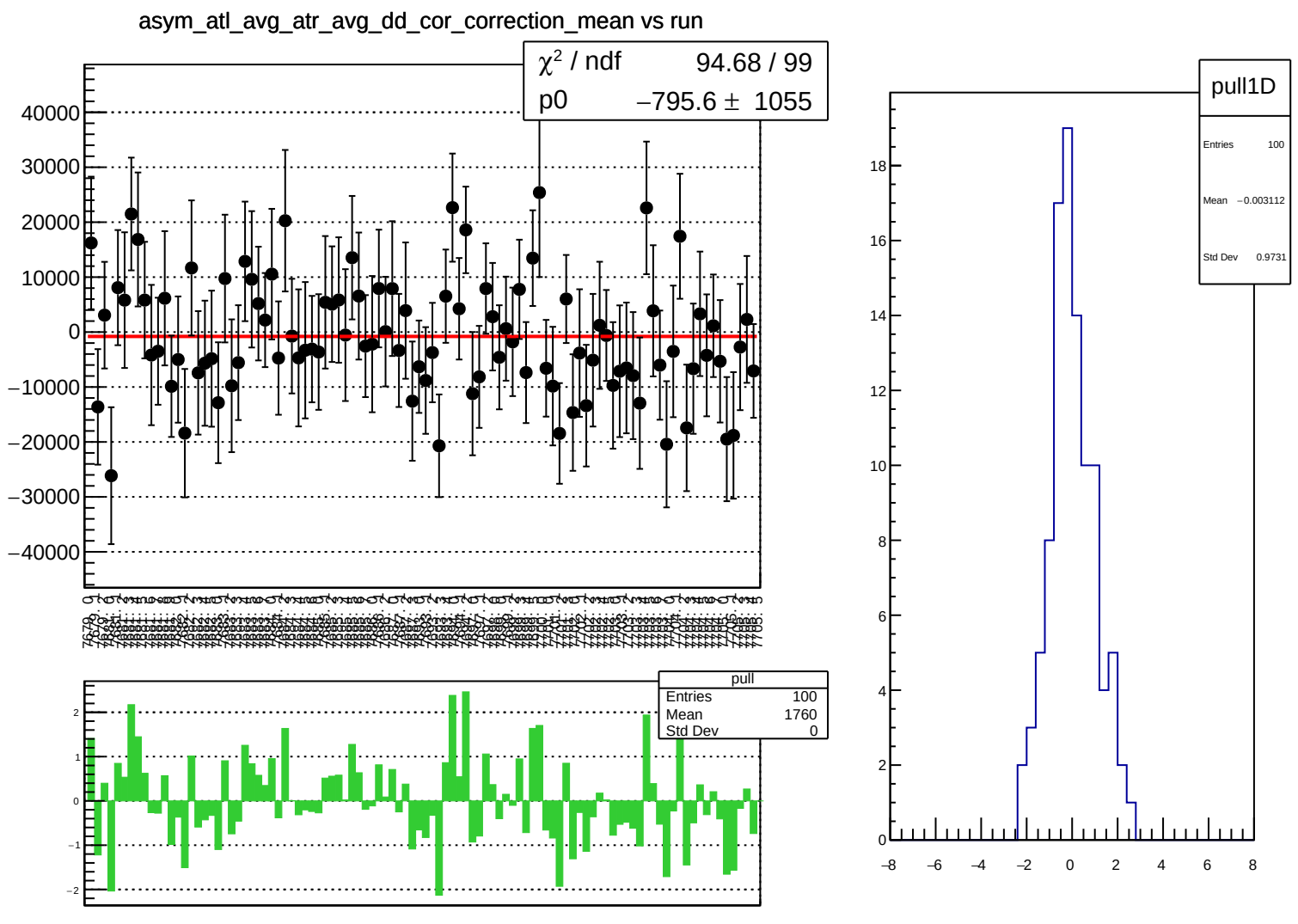

pull1D
Entries 100
Mean −0.00311
Std Dev 0.973
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

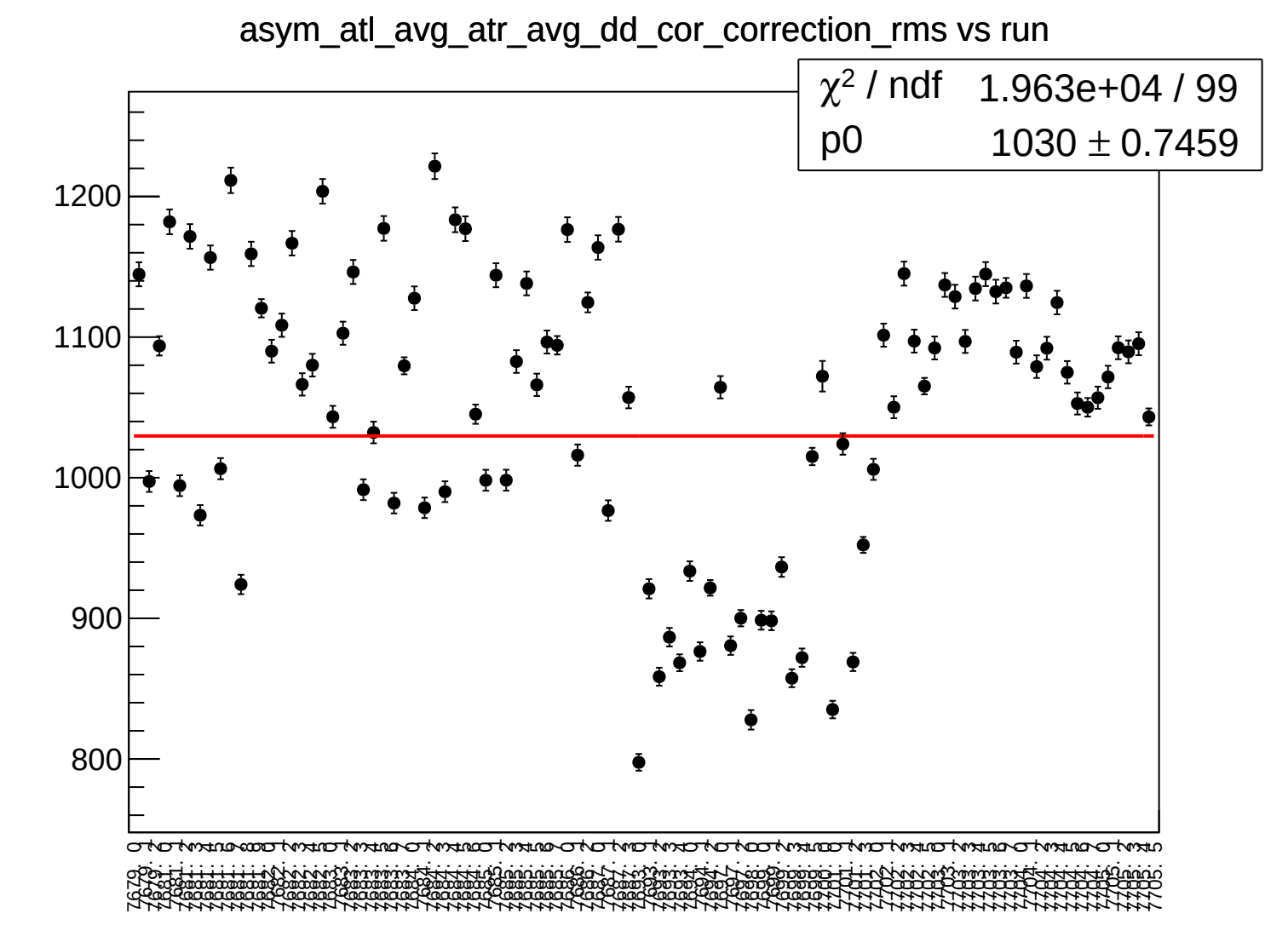

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.963e+04 / 99
p0 1030 ± 0.7459
1200
1100
1000
900
800

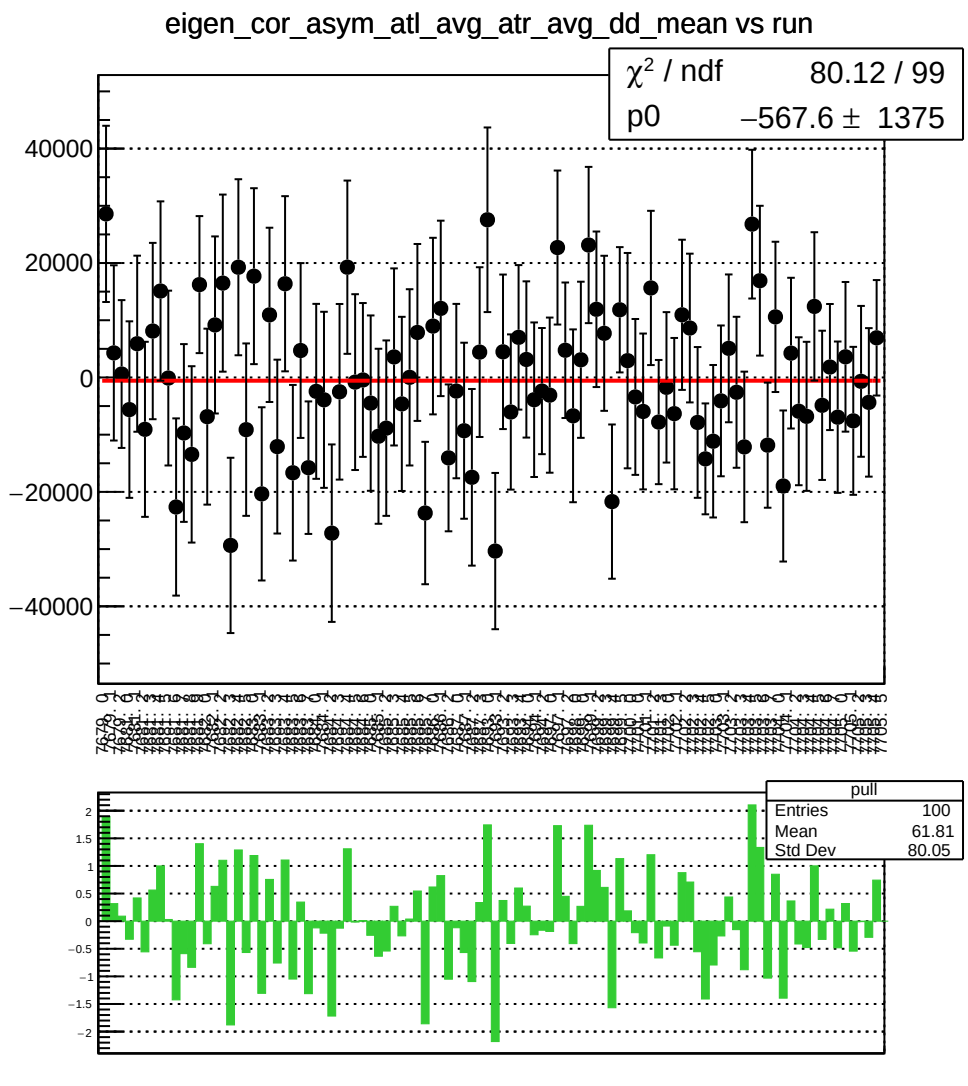

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 80.12 / 99
p0 −567.6 ± 1375
40000
20000
0
−20000
−40000
pull
Entries 100
Mean 61.81
Std Dev 80.05
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

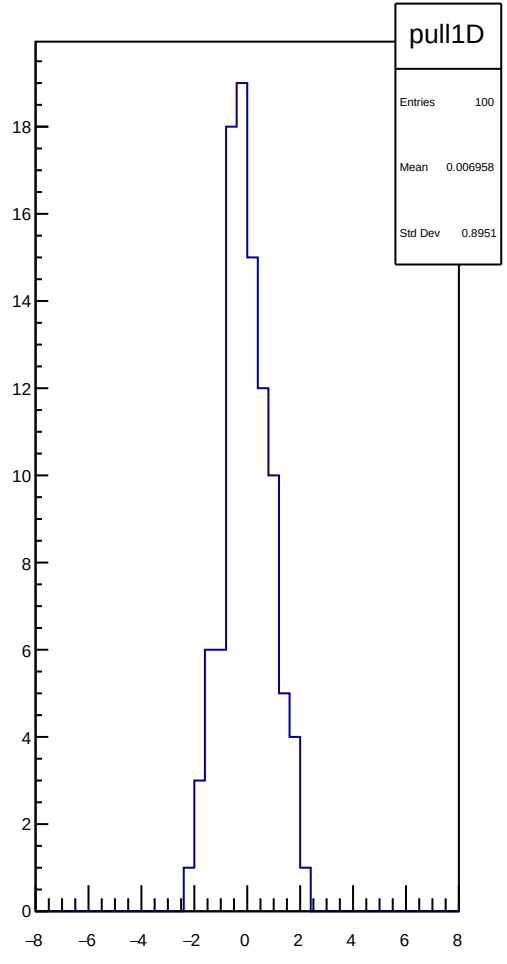

pull1D
Entries 100
Mean 0.006958
Std Dev 0.8951
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

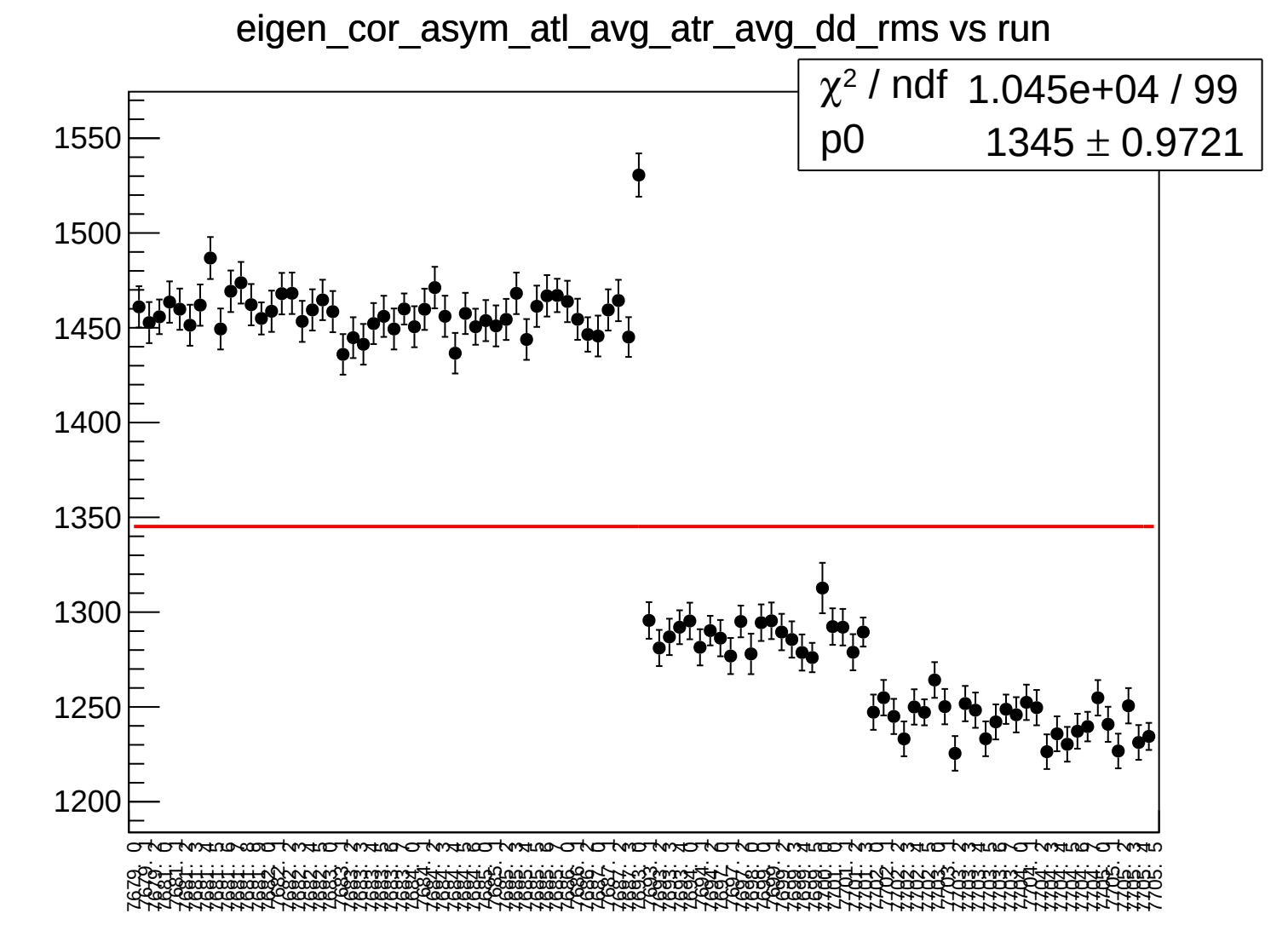

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1.045e+04 / 99
p0 1345 ± 0.9721
1550
1500
1450
1400
1350
1300
1250
1200

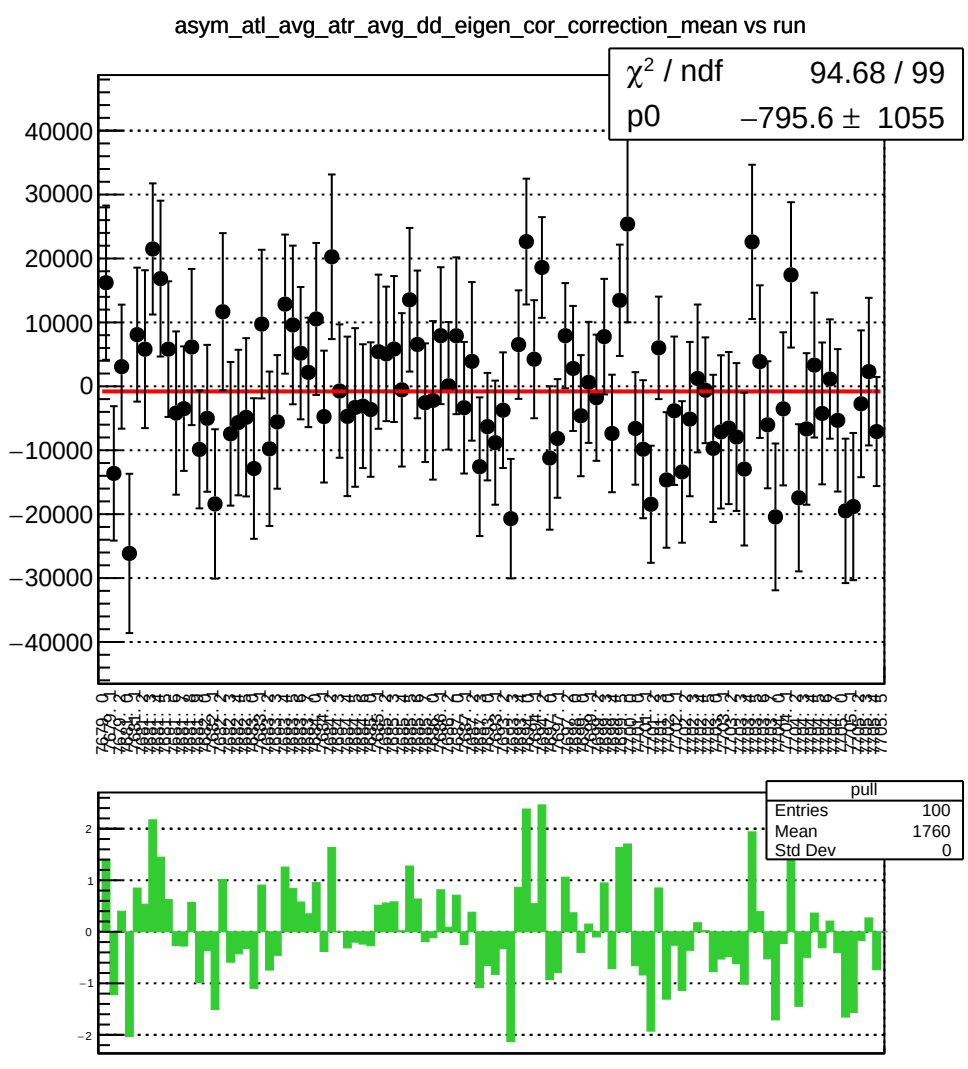

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 94.68 / 99
p0 −795.6 ± 1055
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 100
Mean 1760
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.003112
Std Dev 0.9731
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

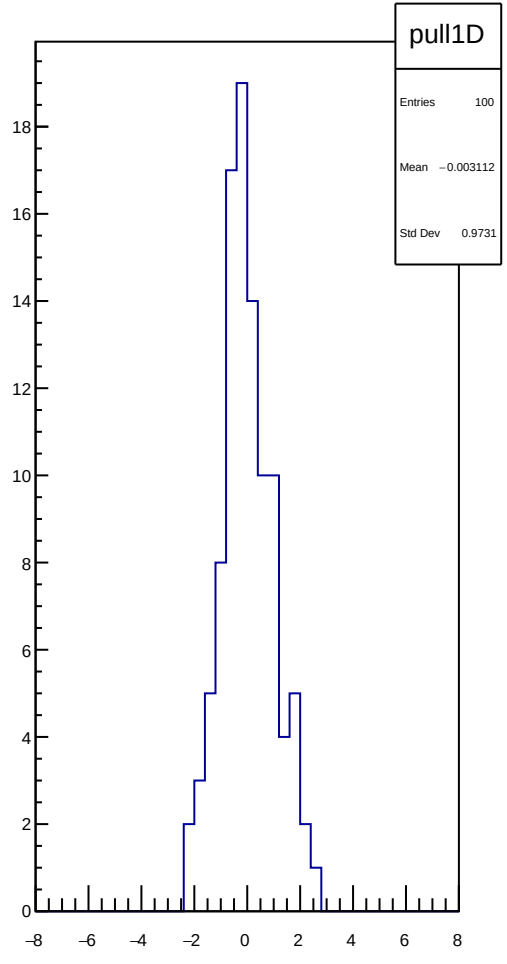

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.963e+04 / 99
p0 1030 ± 0.7459
1200
1100
1000
900
800

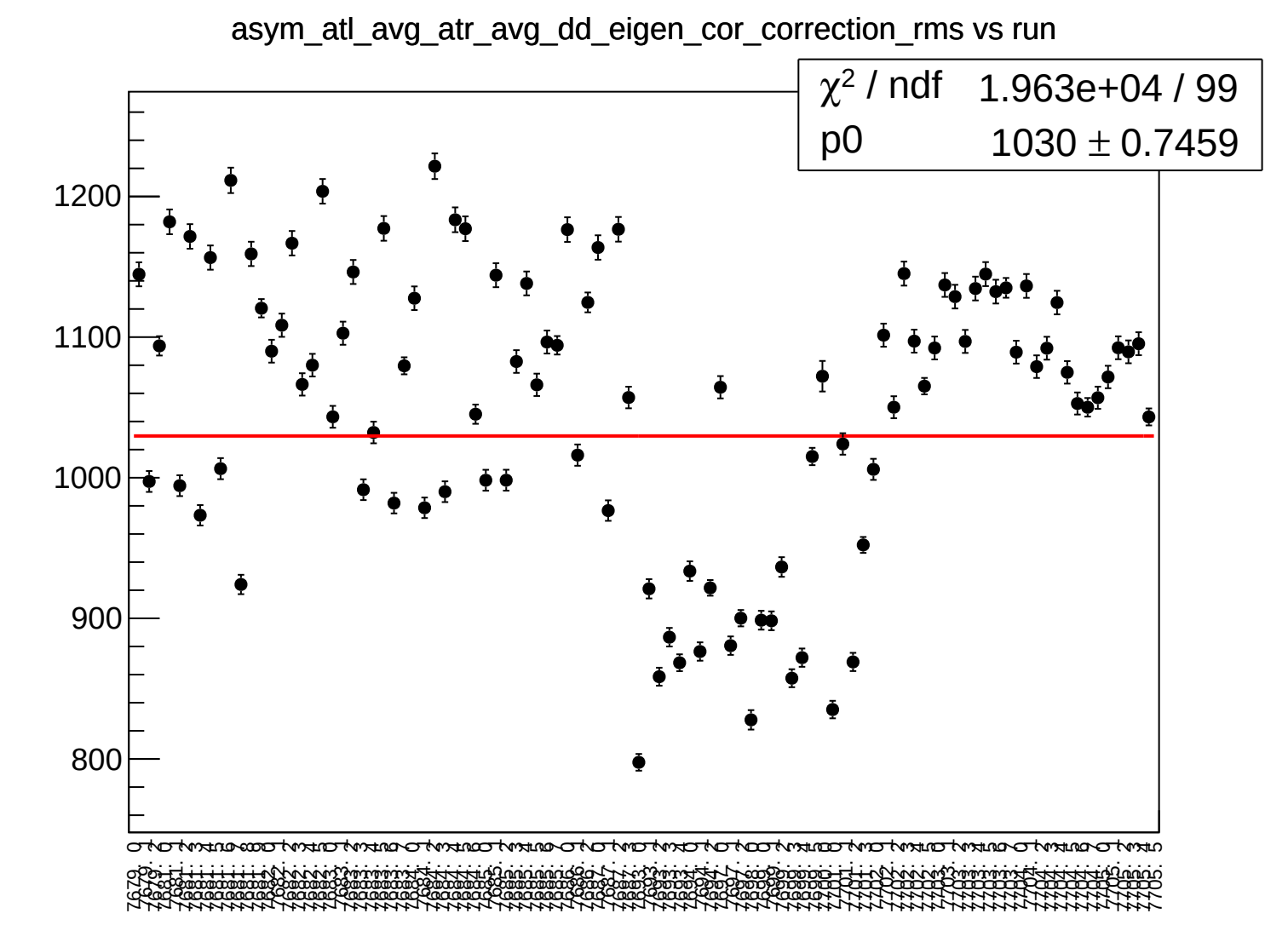

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 80.12 / 99
p0 −567.6 ± 1375
40000
20000
0
−20000
−40000
pull
Entries 100
Mean 61.81
Std Dev 80.05
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

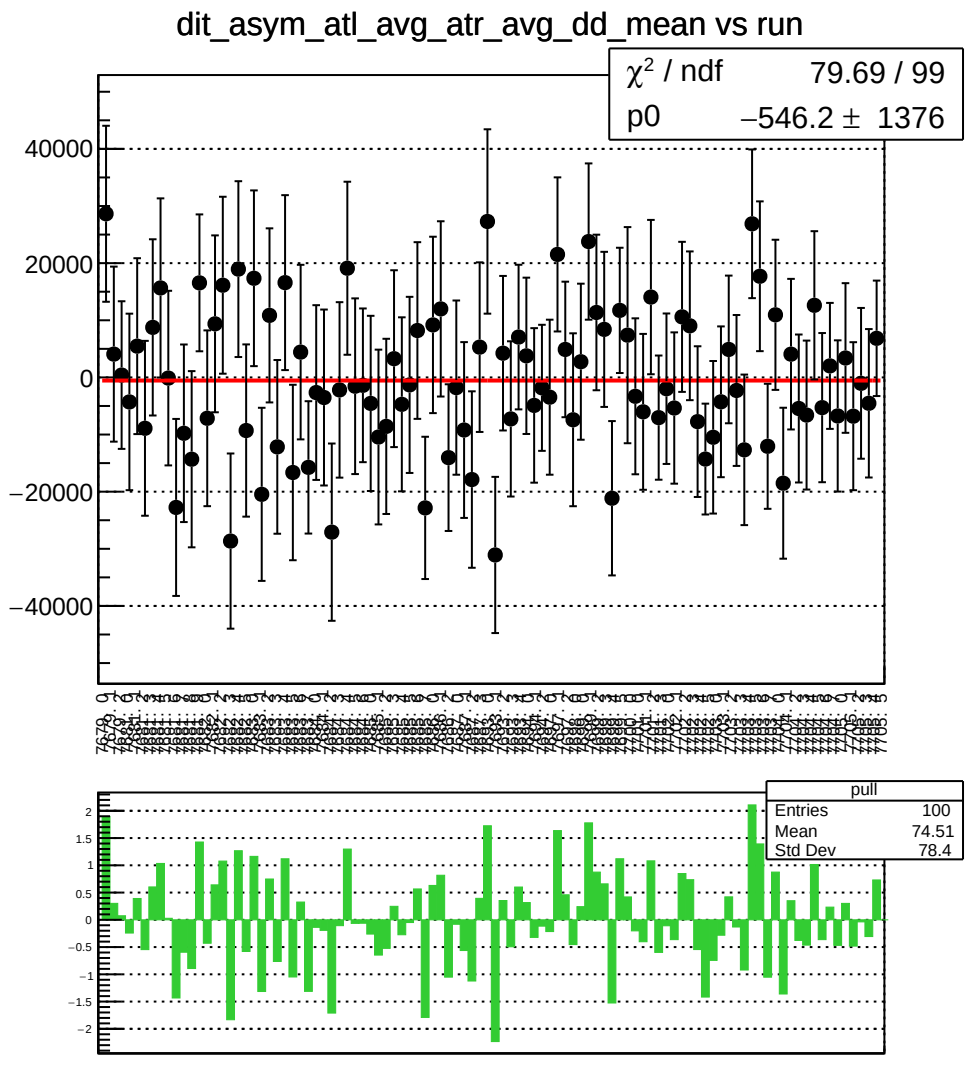

pull1D
Entries 100
Mean 0.006958
Std Dev 0.8951
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

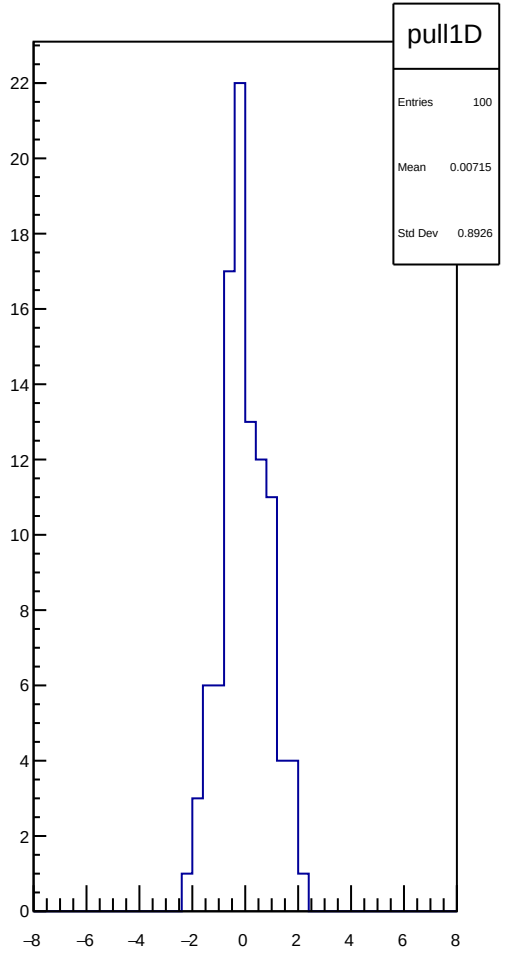

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1.045e+04 / 99
p0 1345 ± 0.9721
1550
1500
1450
1400
1350
1300
1250
1200

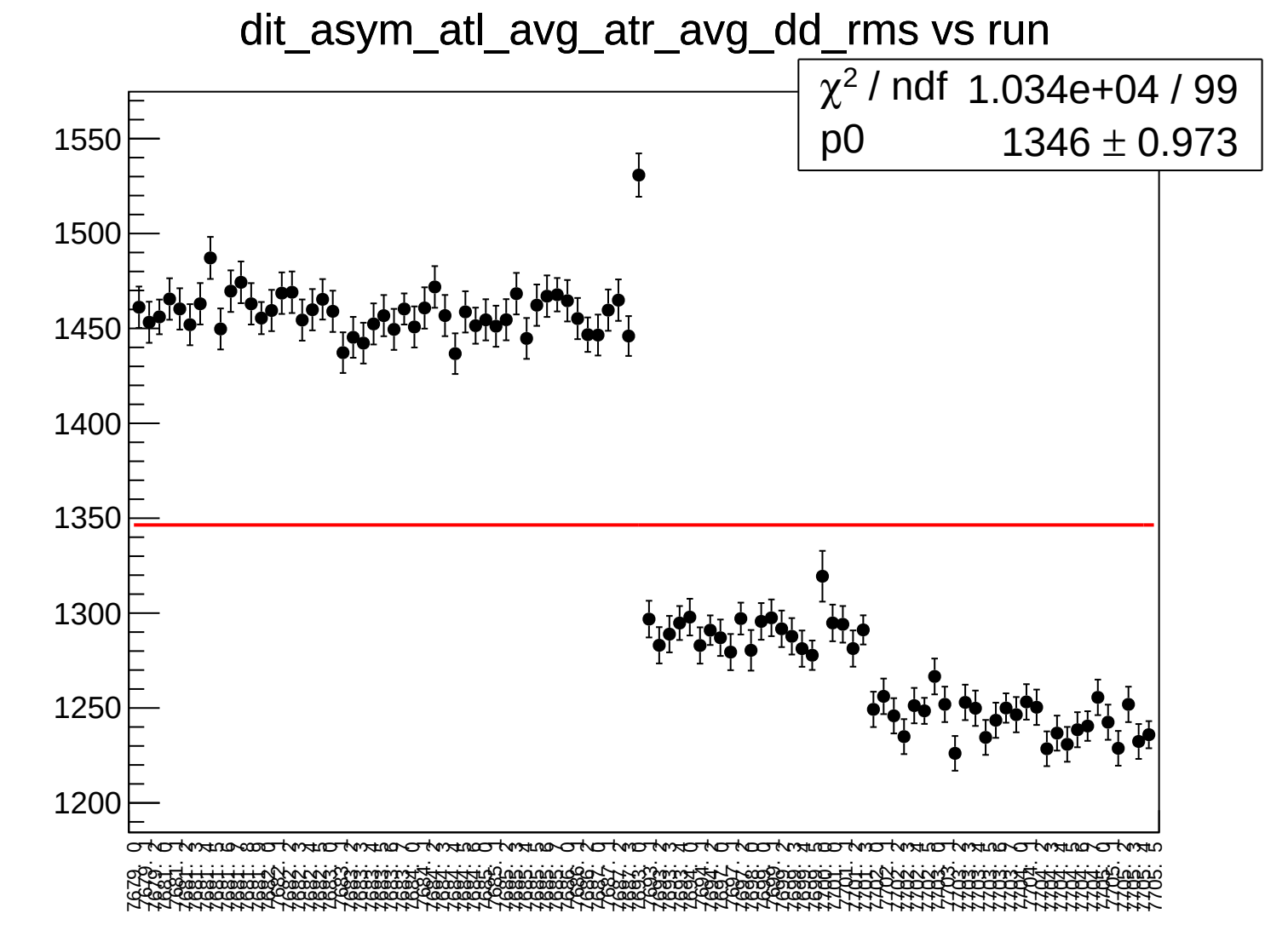

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 94.68 / 99
p0 −795.6 ± 1055
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 100
Mean 1760
Std Dev 0
2
1
0
−1
−2

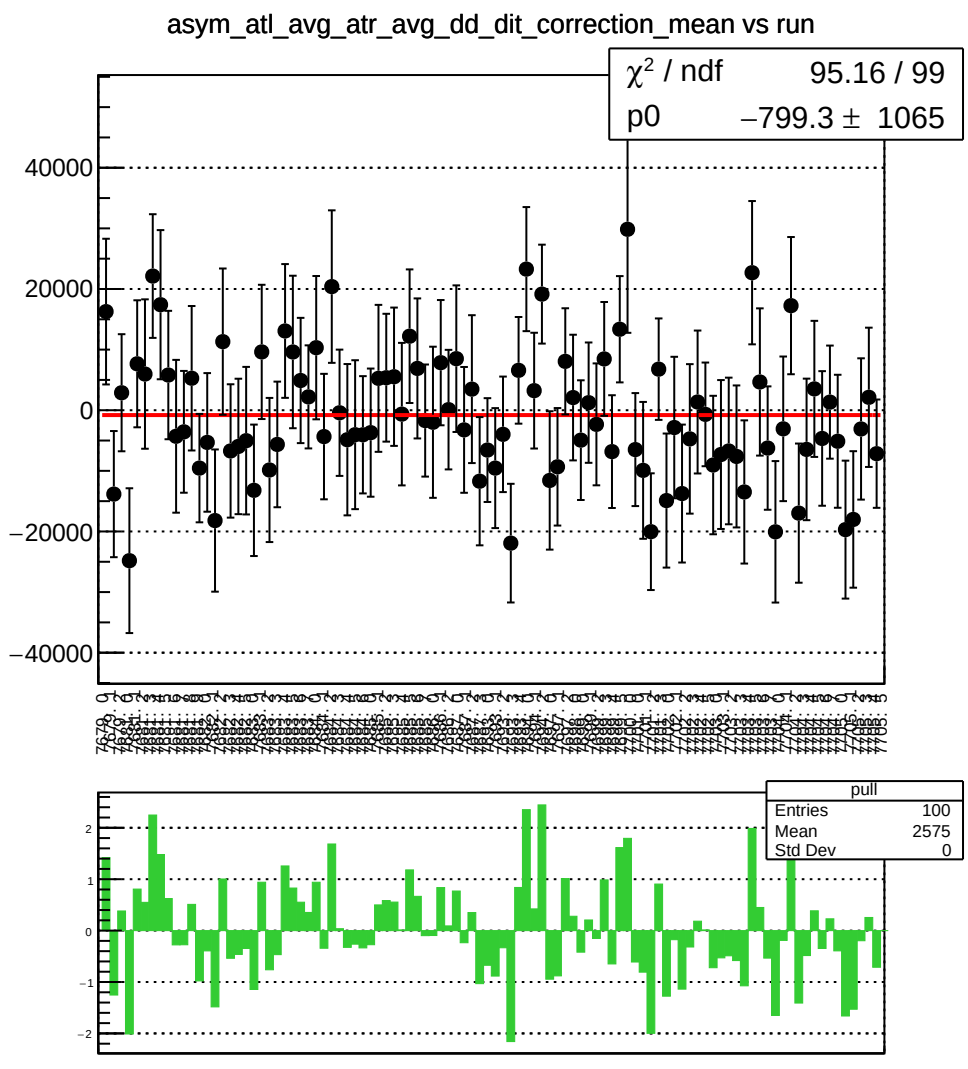

pull1D
Entries 100
Mean −0.003112
Std Dev 0.9731
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

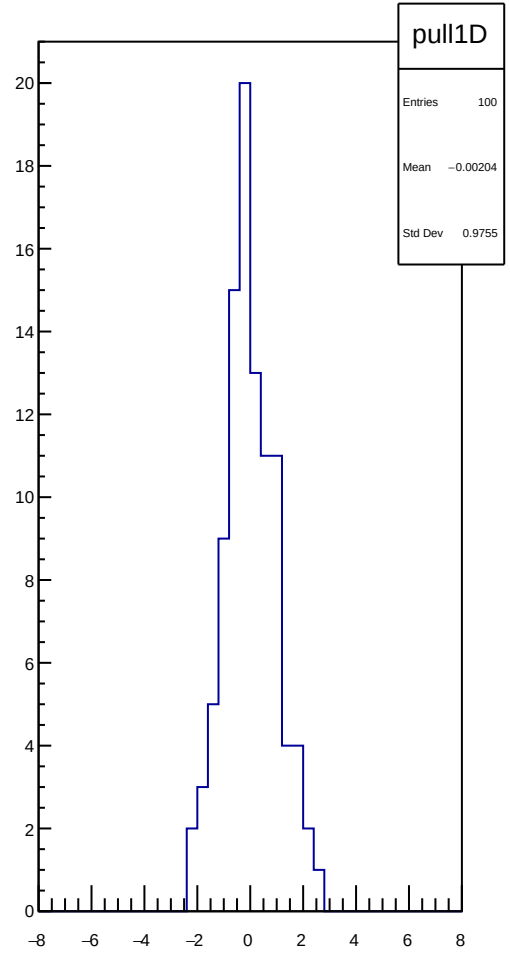

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.963e+04 / 99
p0 1030 ± 0.7459
1200
1100
1000
900
800

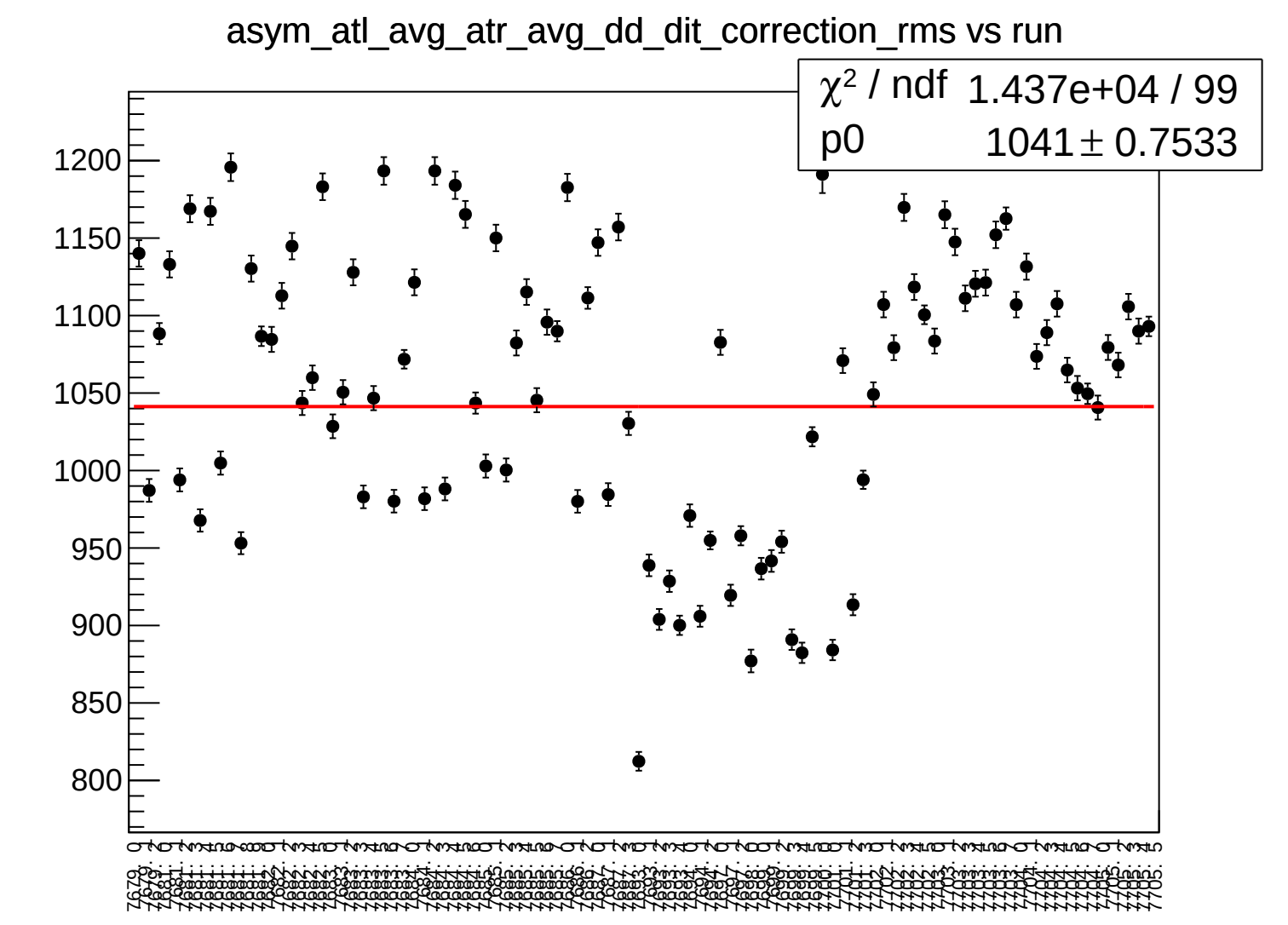

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 79.69 / 99
p0 −546.2 ± 1376
40000
20000
0
−20000
−40000
pull
Entries 100
Mean 74.51
Std Dev 78.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

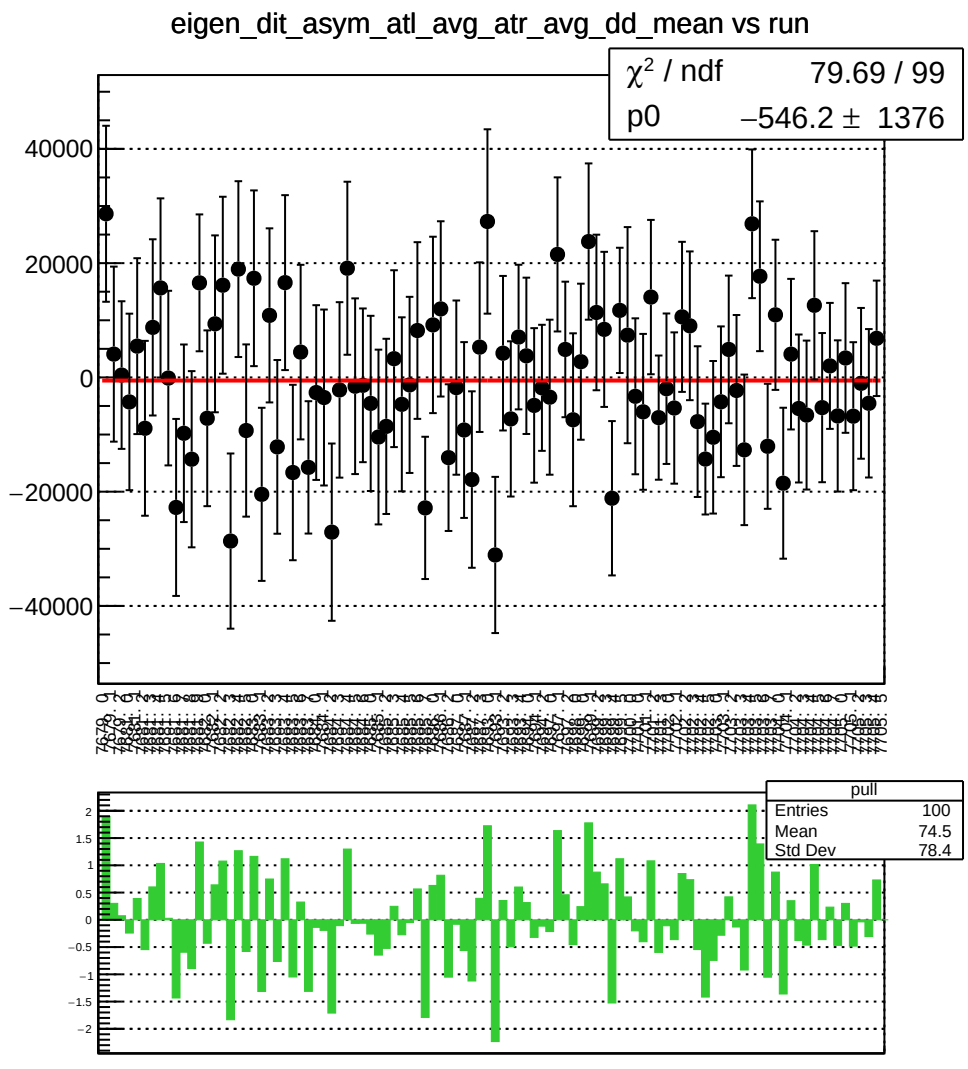

pull1D
Entries 100
Mean 0.00715
Std Dev 0.8926
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

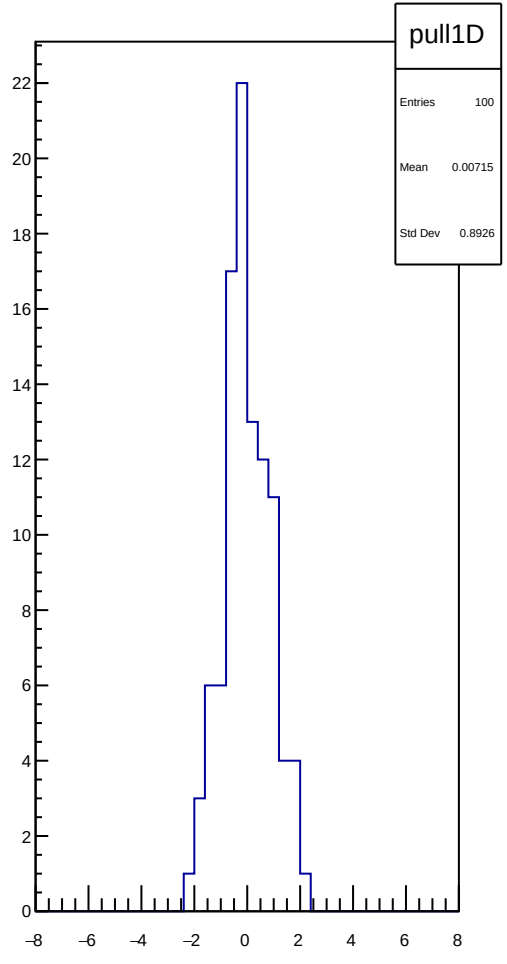

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1.034e+04 / 99
p0 1346 ± 0.973
1550
1500
1450
1400
1350
1300
1250
1200

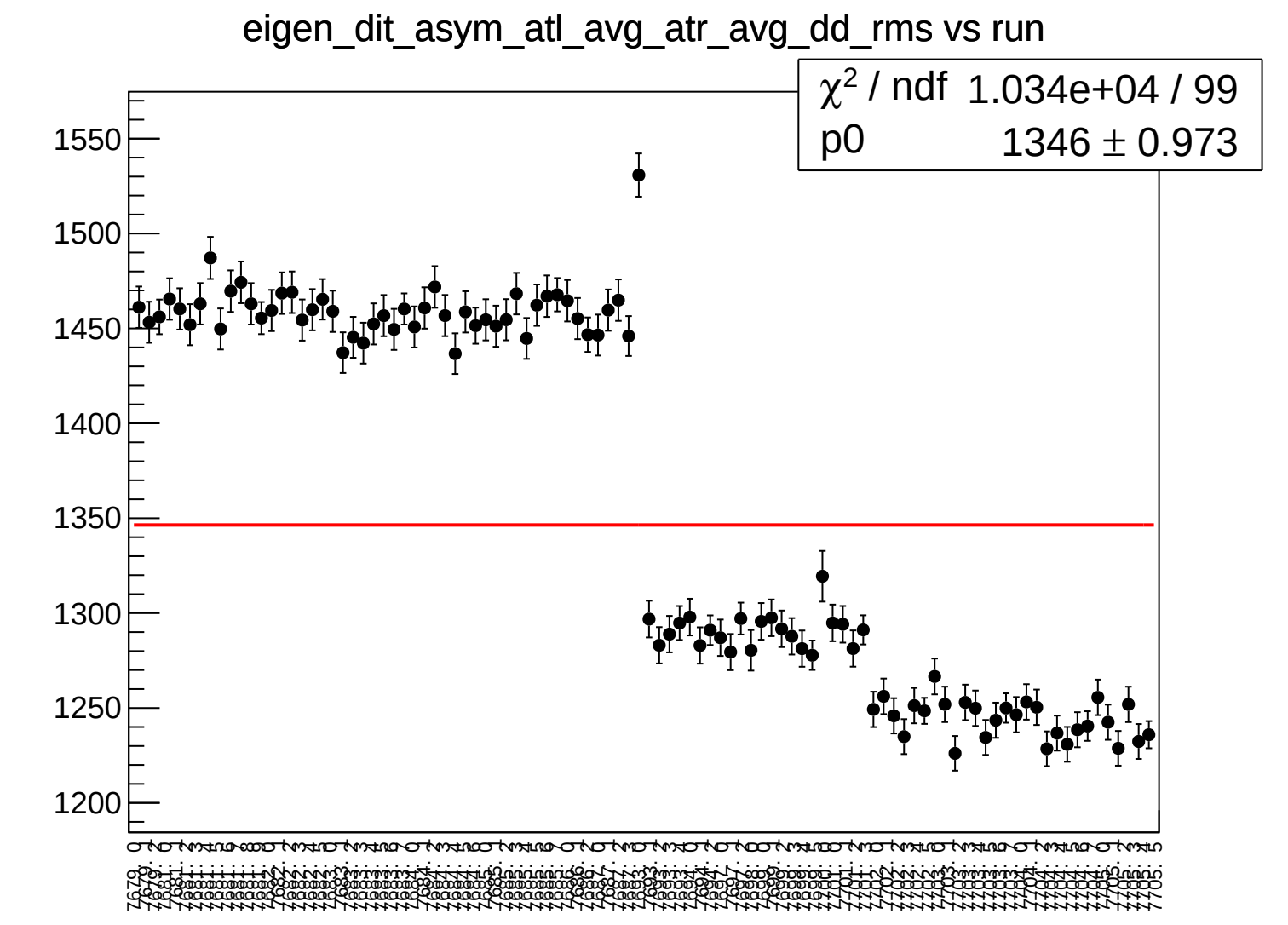

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 95.16 / 99
p0 −799.3 ± 1065
40000
20000
0
−20000
−40000
pull
Entries 100
Mean 2575
Std Dev 0
2
1
0
−1
−2

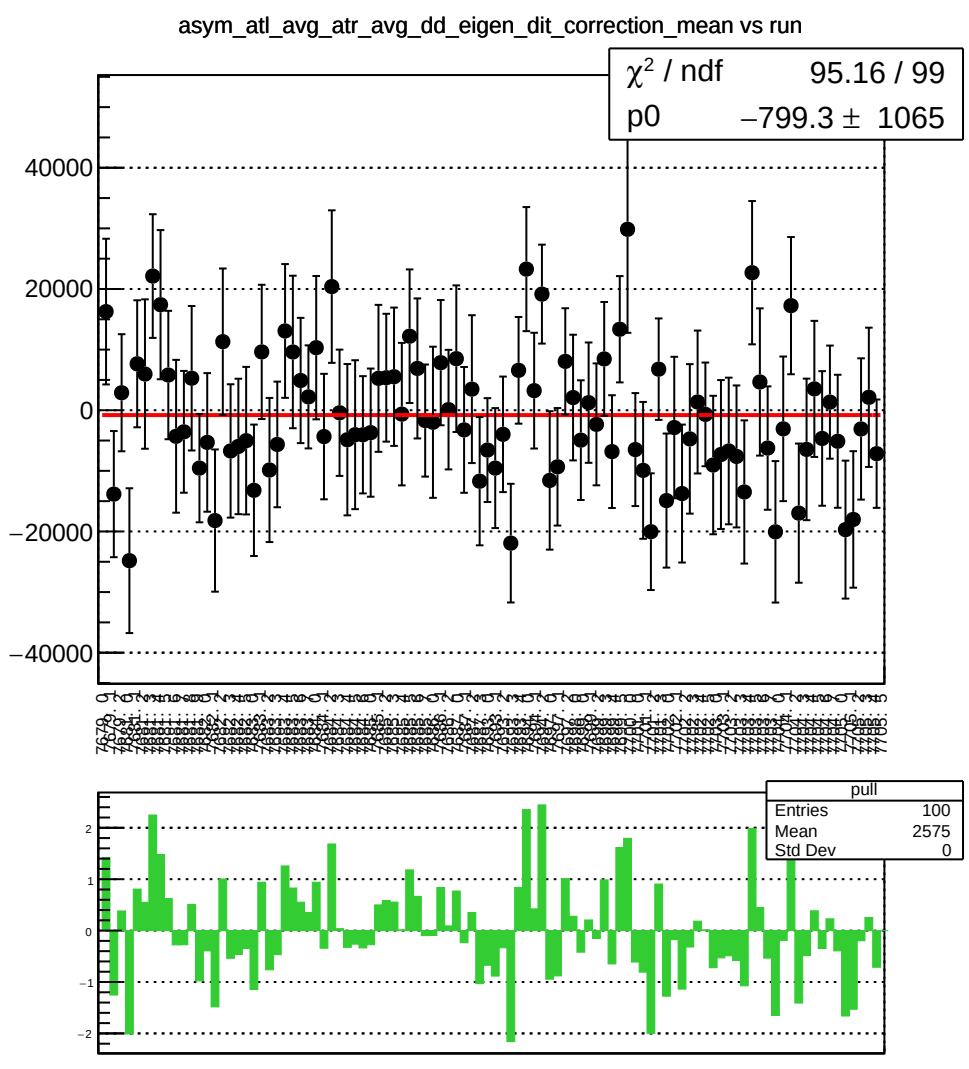

pull1D
Entries 100
Mean −0.00204
Std Dev 0.9755
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

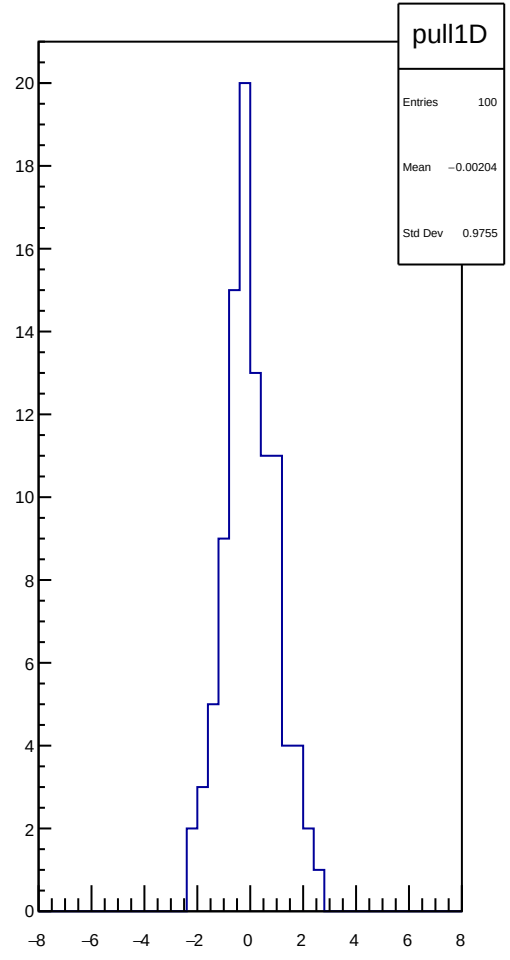

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.437e+04 / 99
p0 1041 ± 0.7533
1200
1150
1100
1050
1000
950
900
850
800

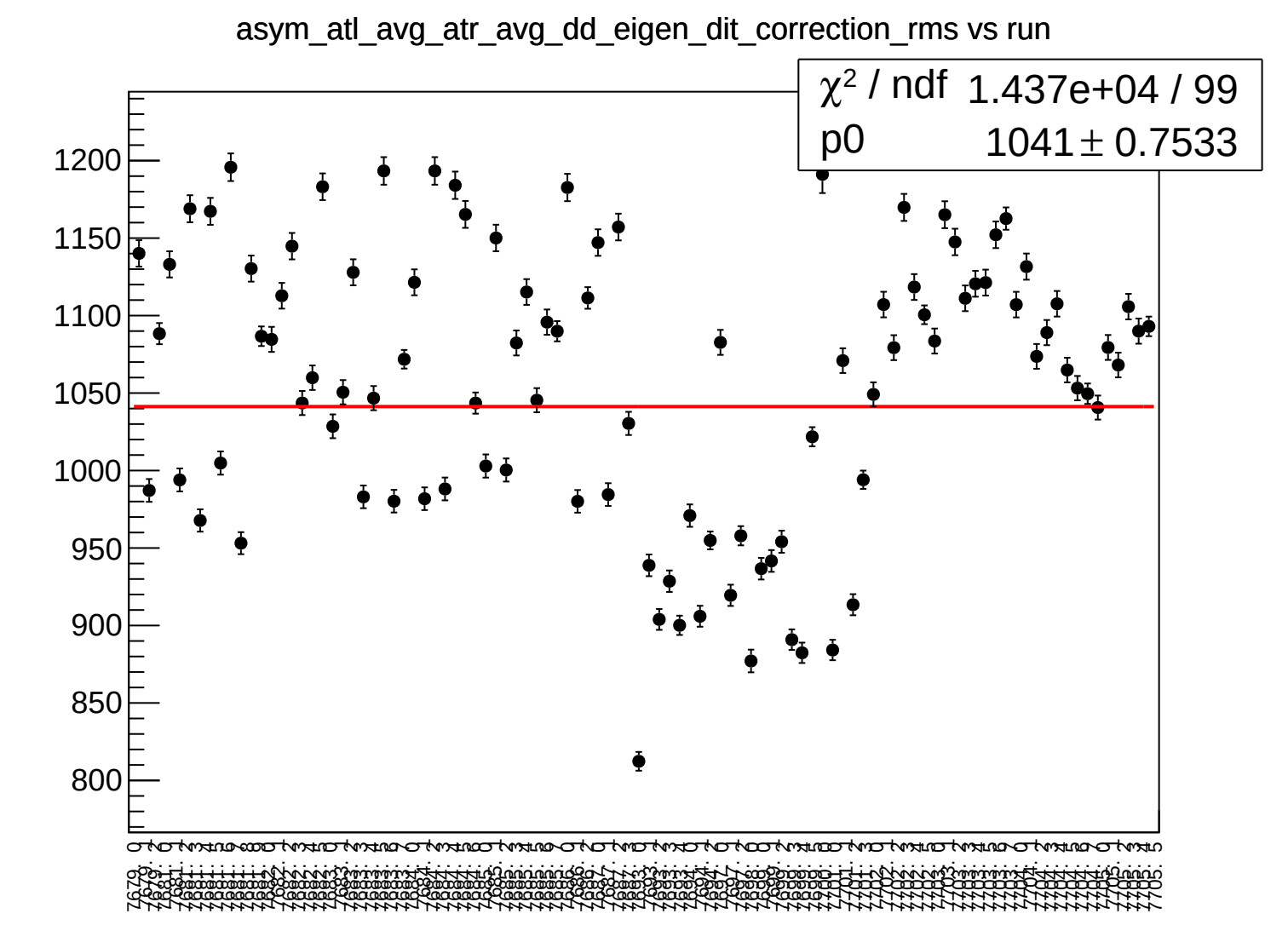

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 79.69 / 99
p0 −546.2 ± 1376
40000
20000
0
−20000
−40000
pull
Entries 100
Mean 74.5
Std Dev 78.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

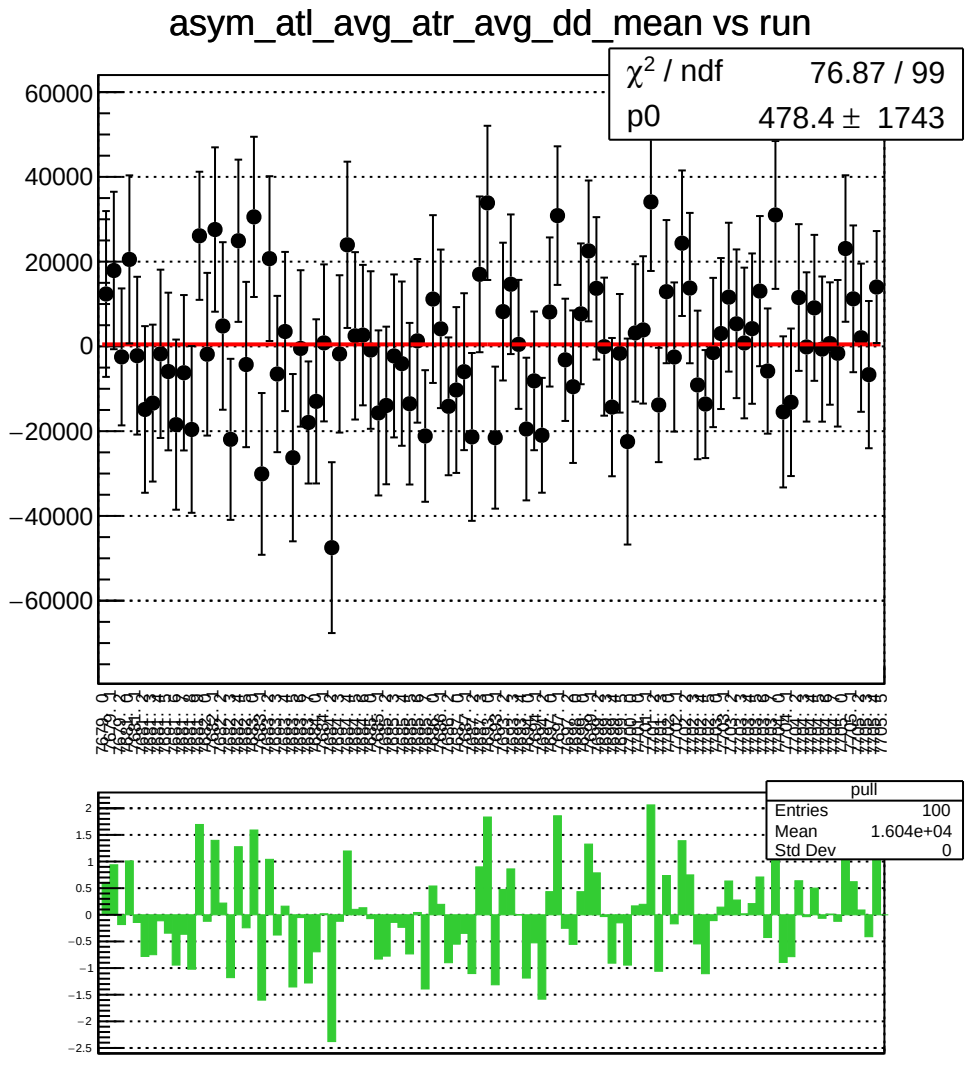

pull1D
Entries 100
Mean 0.00715
Std Dev 0.8926
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

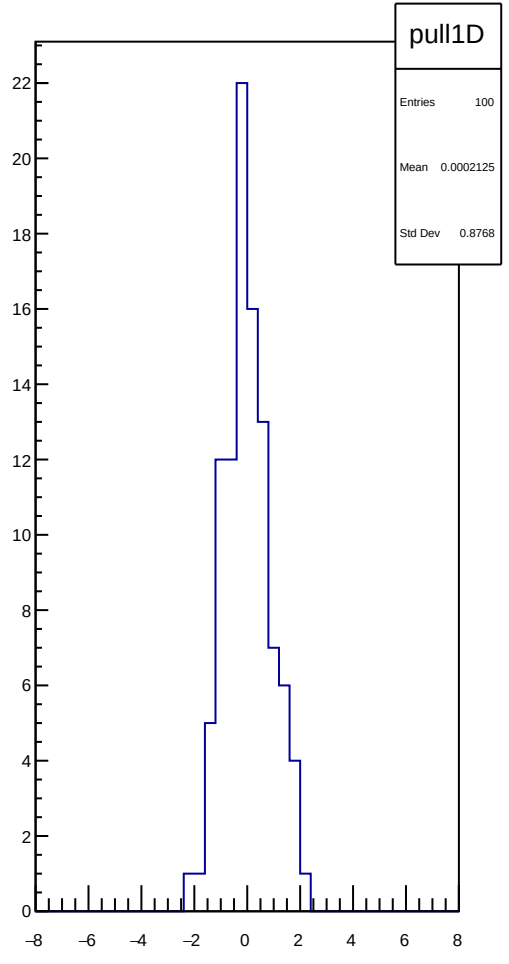

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1.034e+04 / 99
p0 1346 ± 0.973
1550
1500
1450
1400
1350
1300
1250
1200

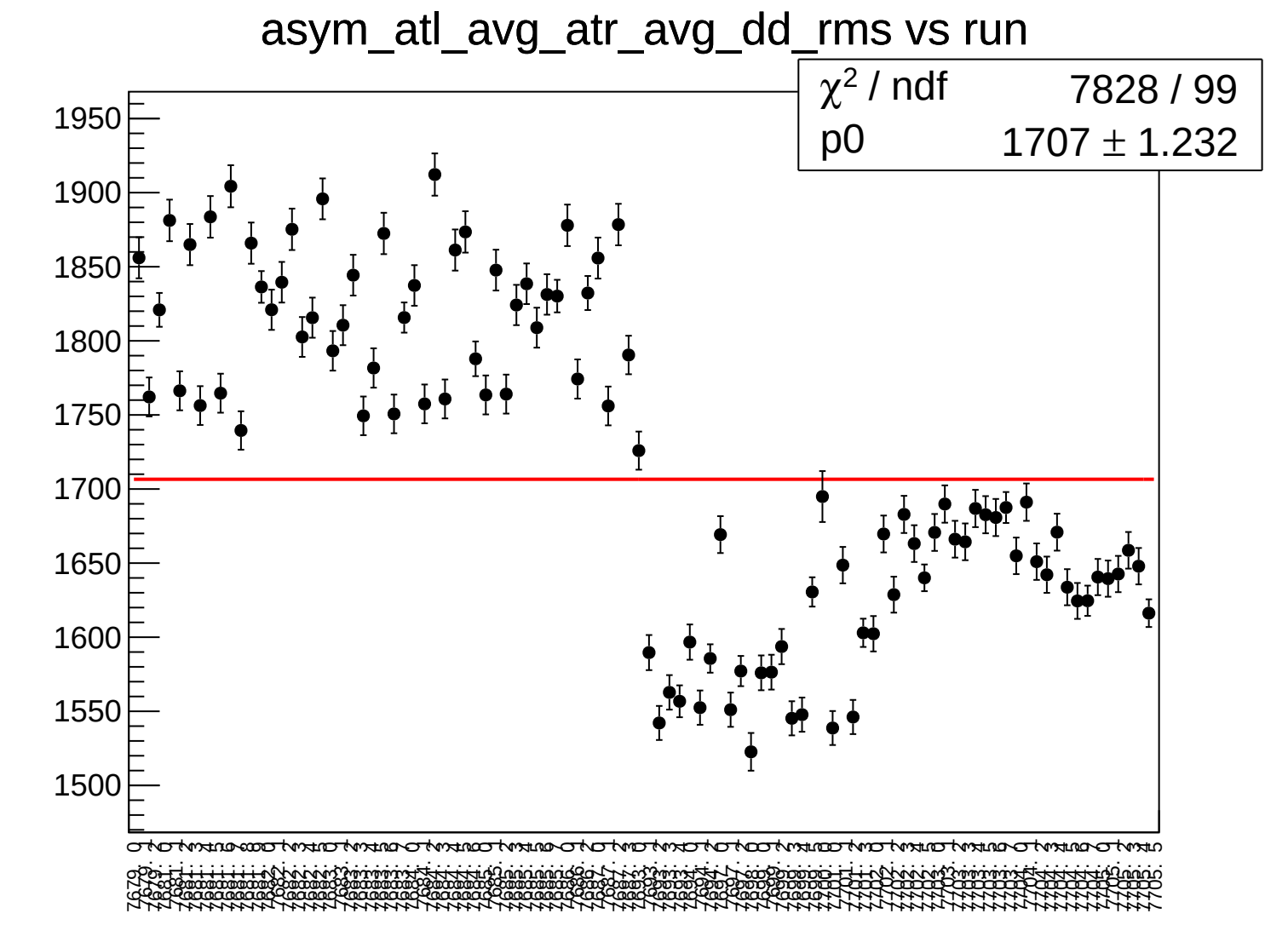

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 95.16 / 99
p0 −799.3 ± 1065
40000
20000
0
−20000
−40000
pull
Entries 100
Mean 2575
Std Dev 0
2
1
0
−1
−2

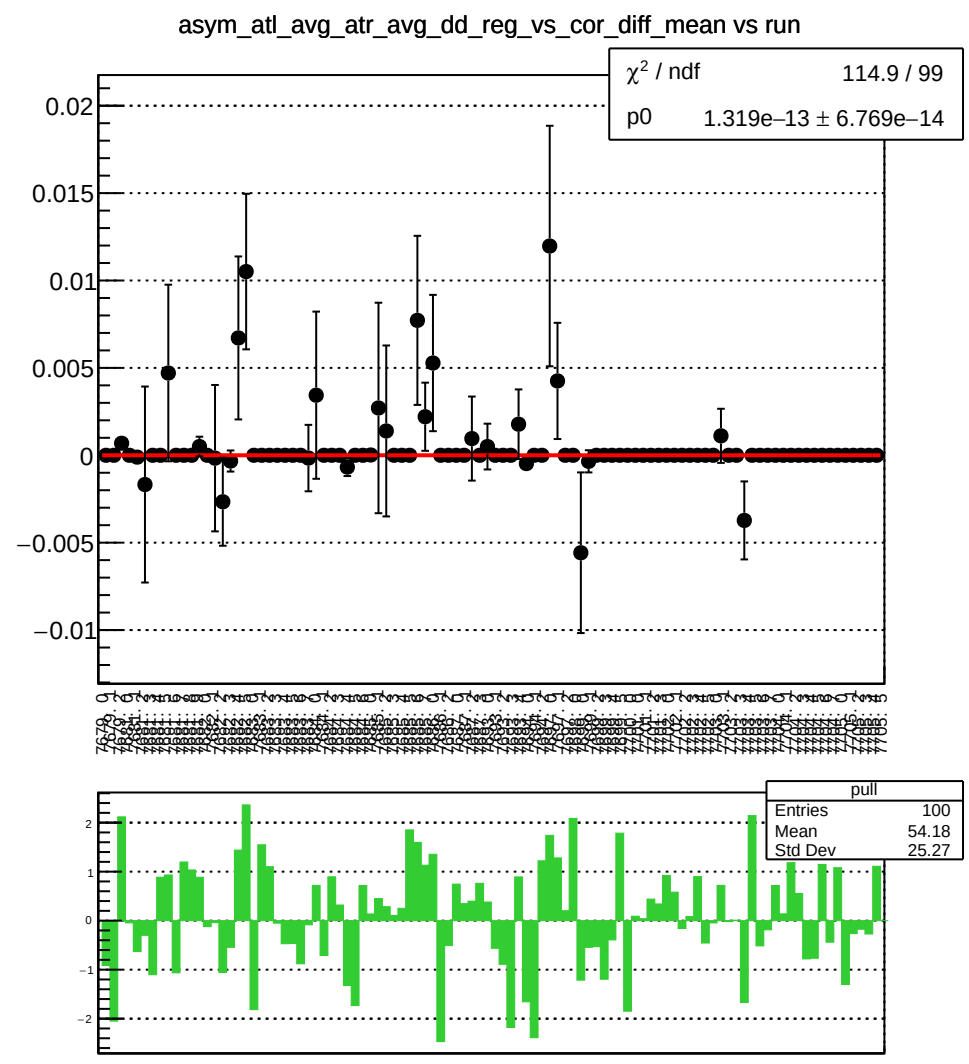

pull1D
Entries 100
Mean −0.00204
Std Dev 0.9755
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

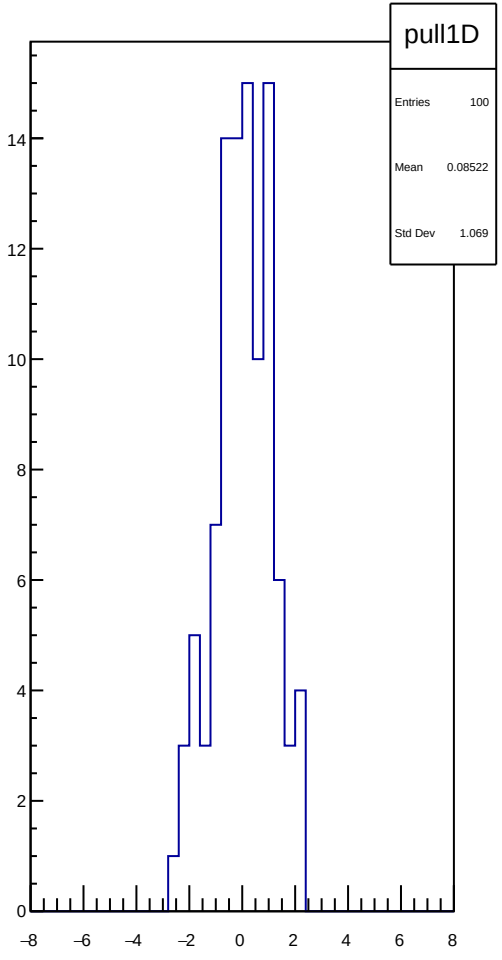

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.437e+04 / 99
p0 1041 ± 0.7533
1200
1150
1100
1050
1000
950
900
850
800

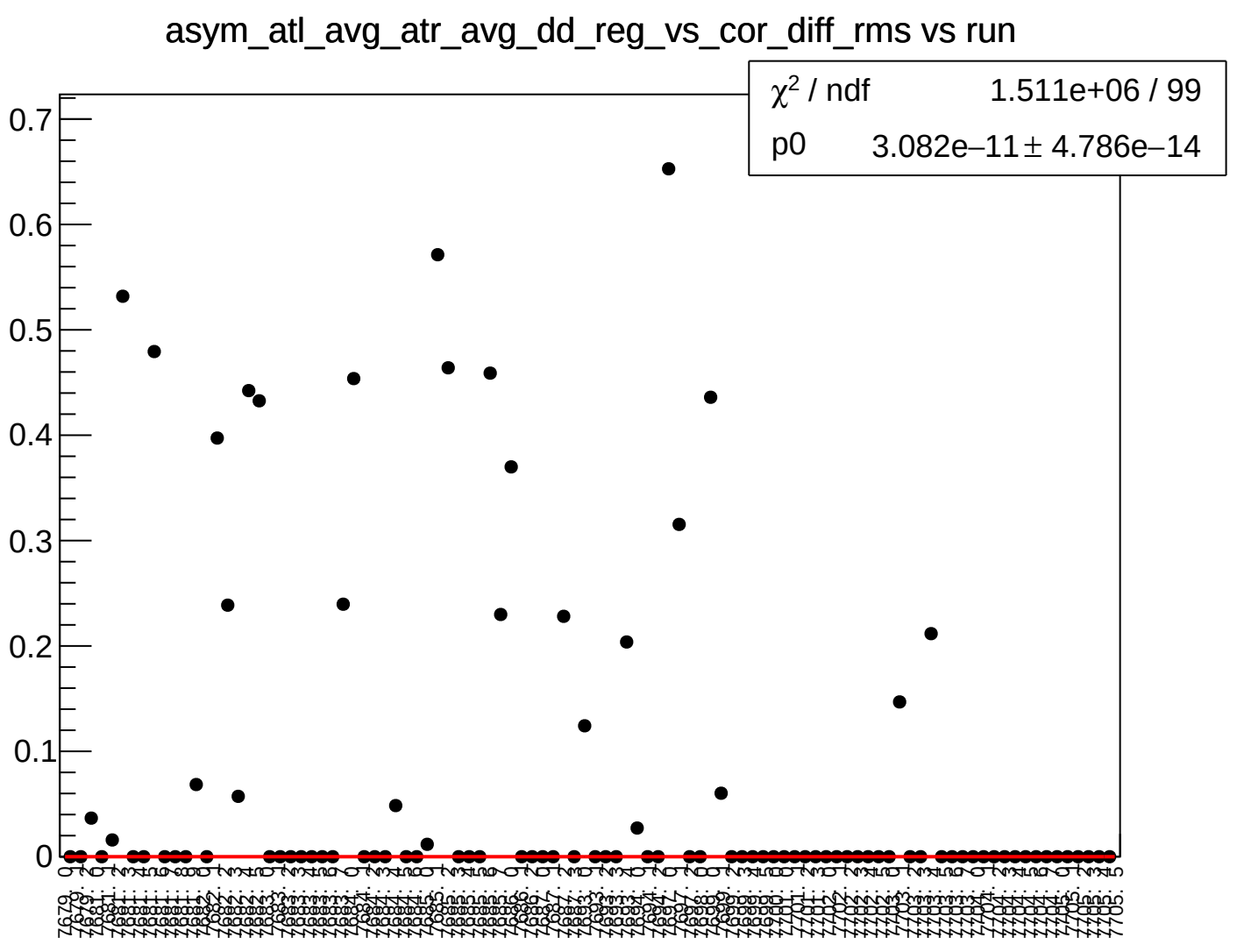

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 76.87 / 99
p0 478.4 ± 1743
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean 1.604e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

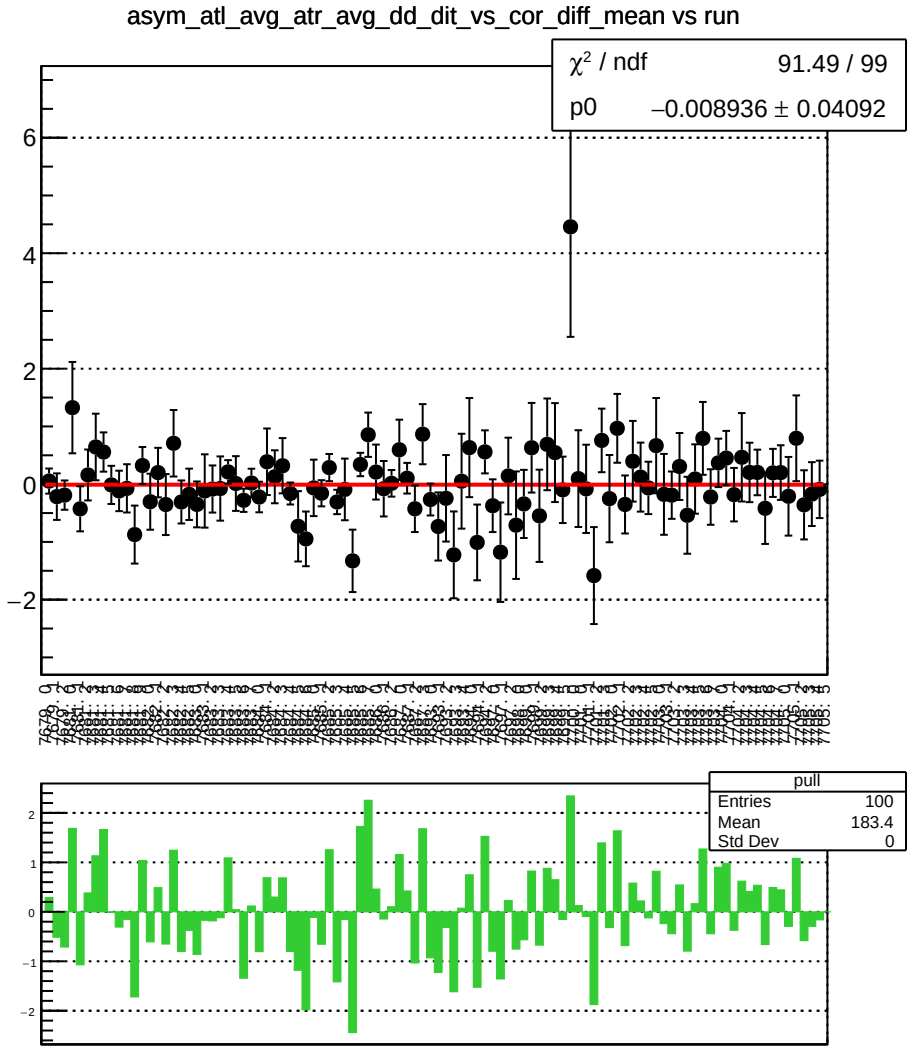

pull1D
Entries 100
Mean 0.0002125
Std Dev 0.8768
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

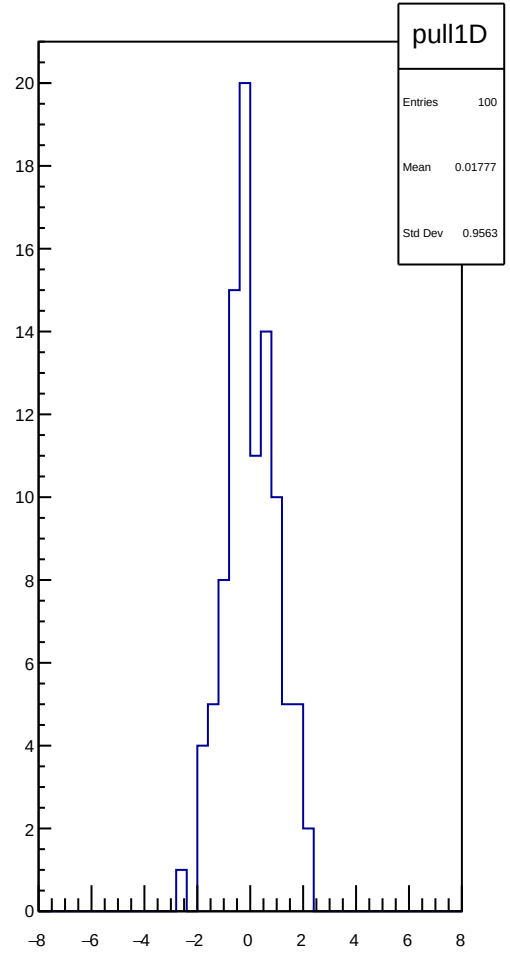

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 7828 / 99
p0 1707 ± 1.232
1950
1900
1850
1800
1750
1700
1650
1600
1550
1500

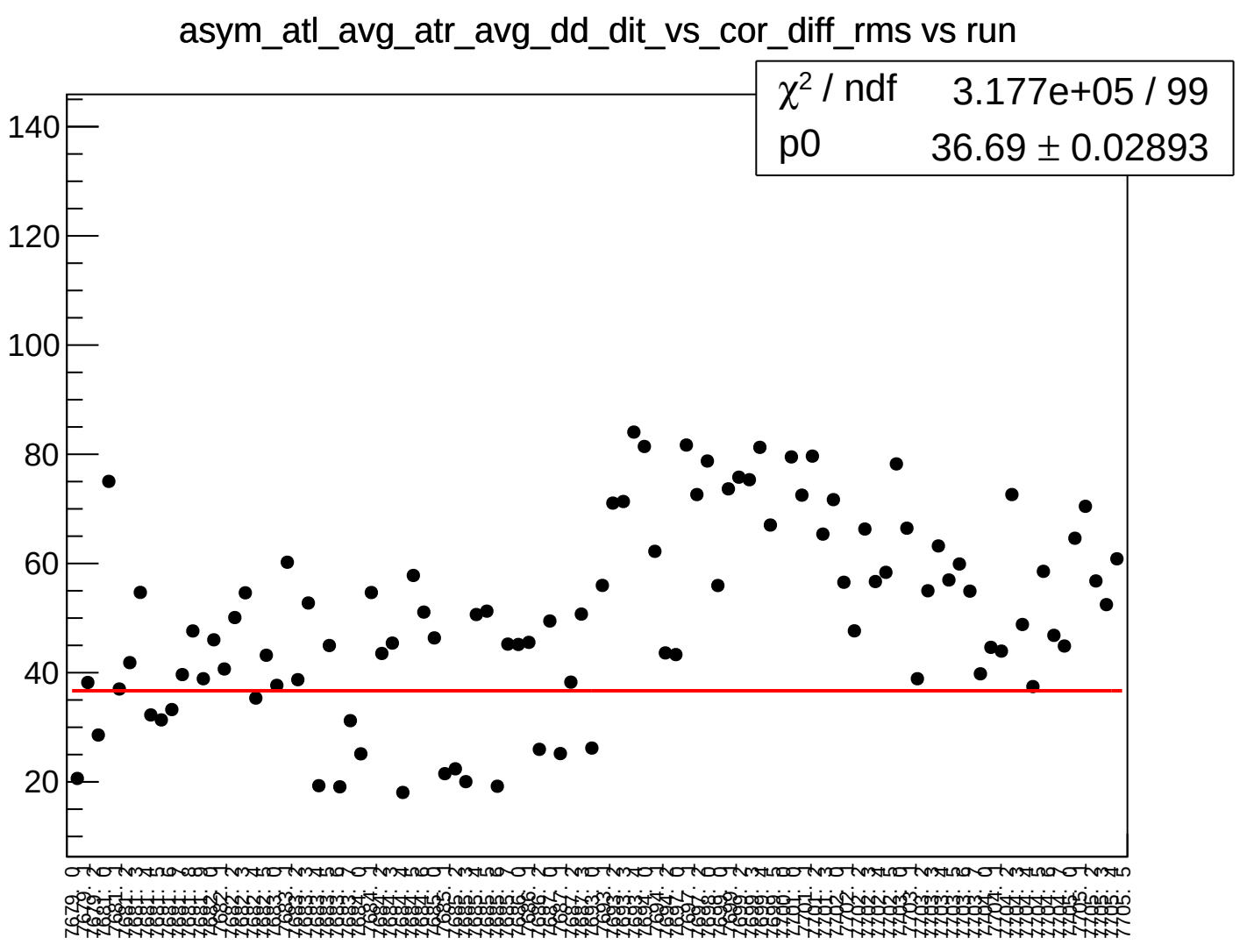

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 114.9 / 99
p0 1.319e−13 ± 6.769e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 100
Mean 54.18
Std Dev 25.27
2
1
0
−1
−2

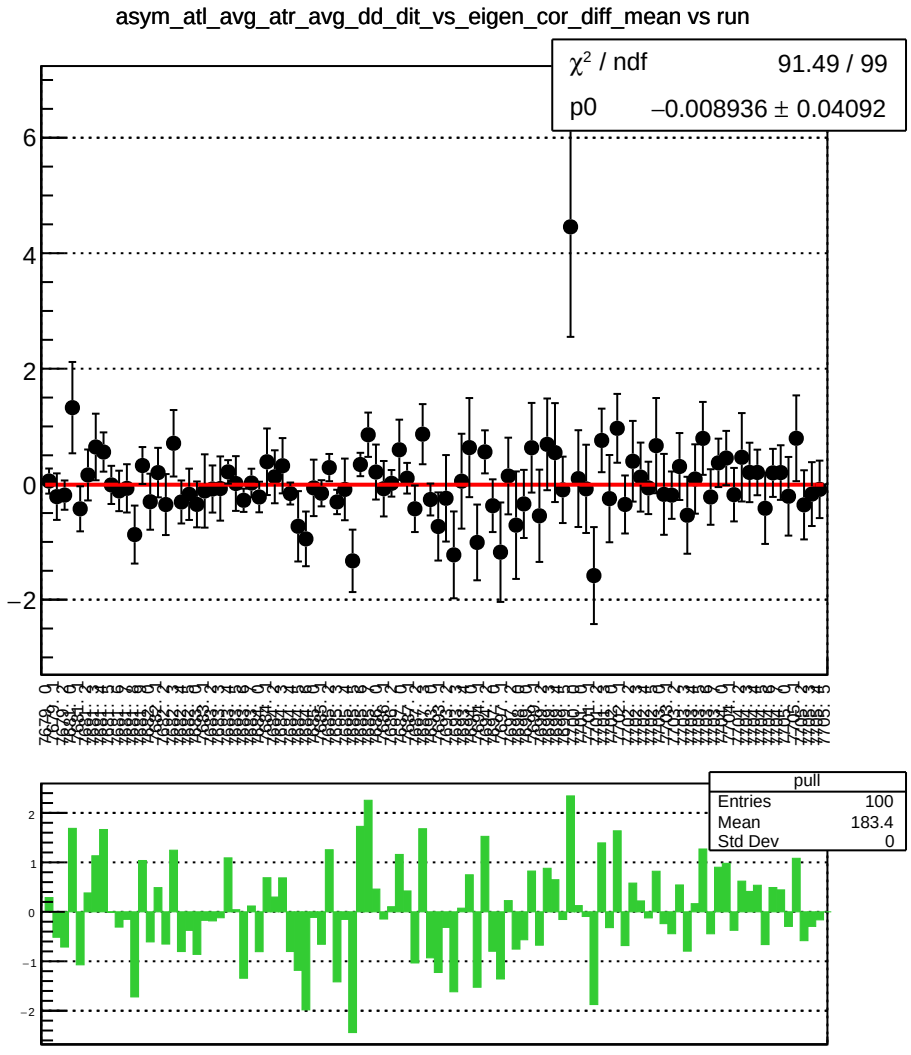

pull1D
Entries 100
Mean 0.08522
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

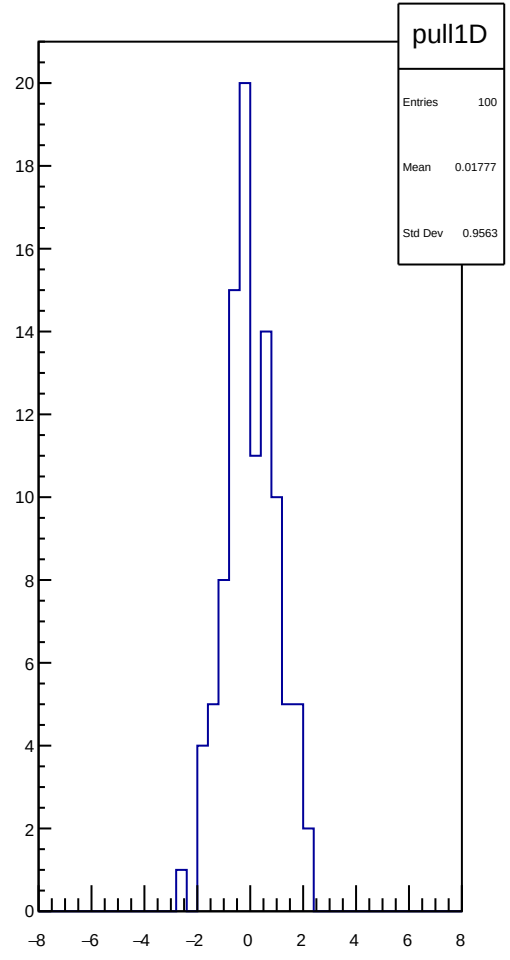

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.511e+06 / 99
p0 3.082e−11 ± 4.786e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

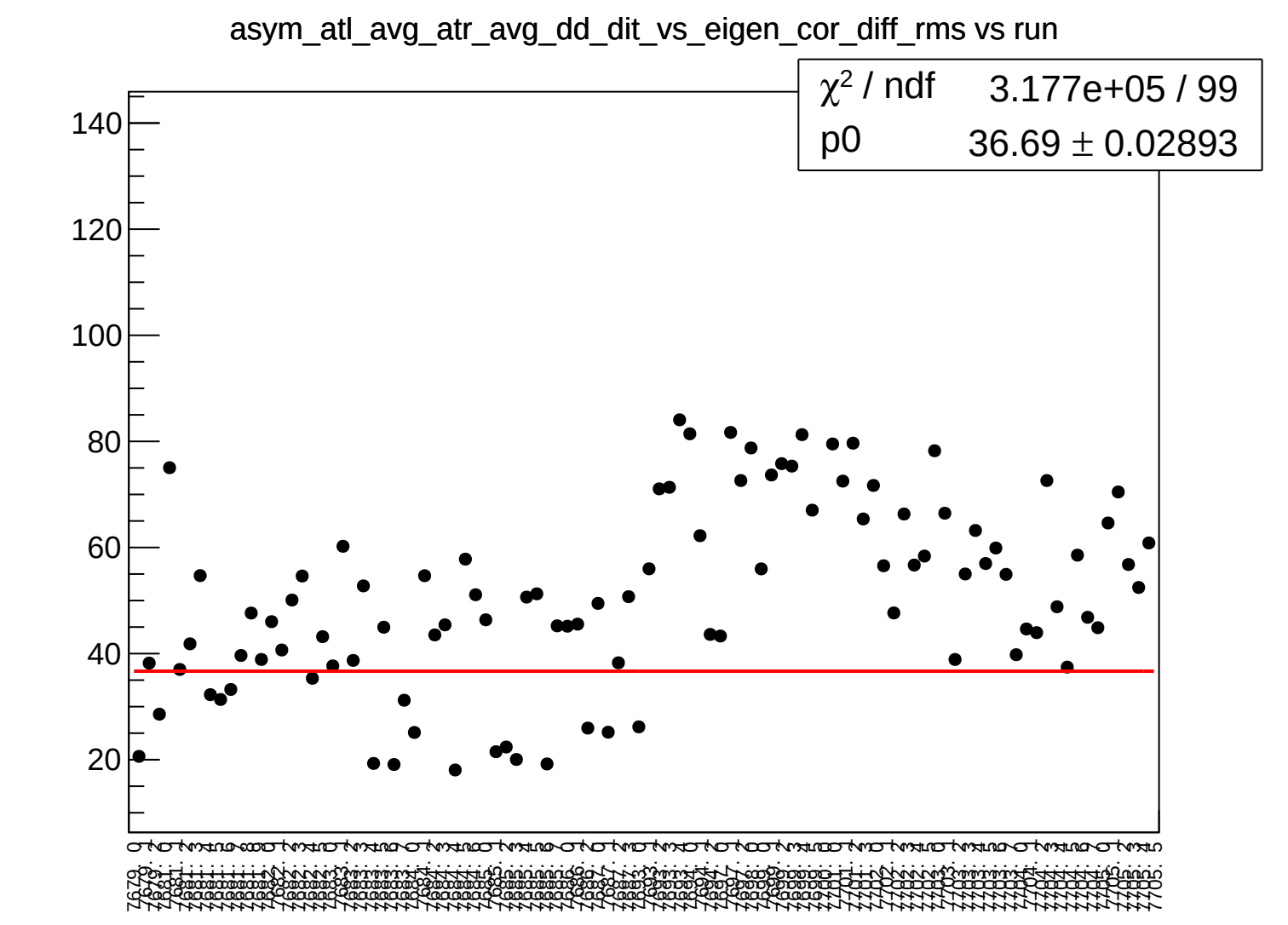

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.49 / 99
p0 −0.008936 ± 0.04092
pull
Entries 100
Mean 183.4
Std Dev 0

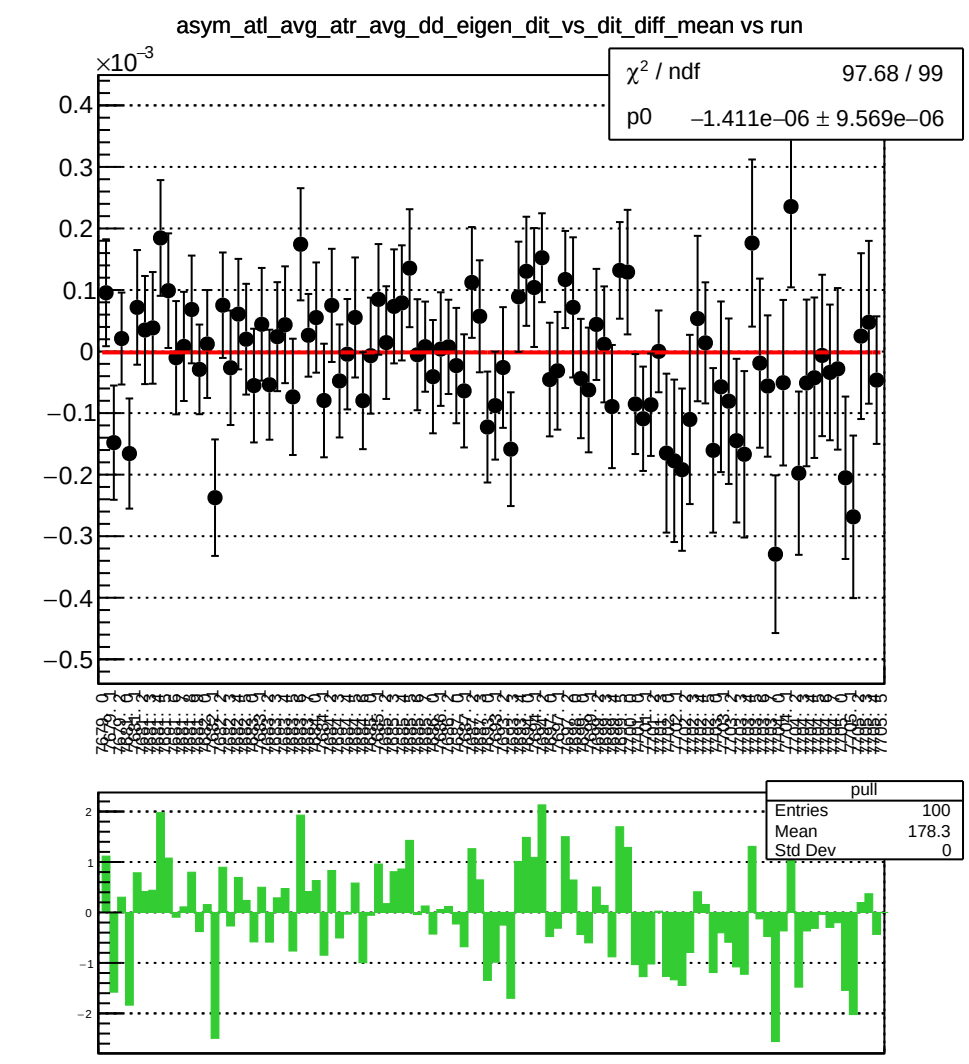

pull1D
Entries 100
Mean 0.01777
Std Dev 0.9563

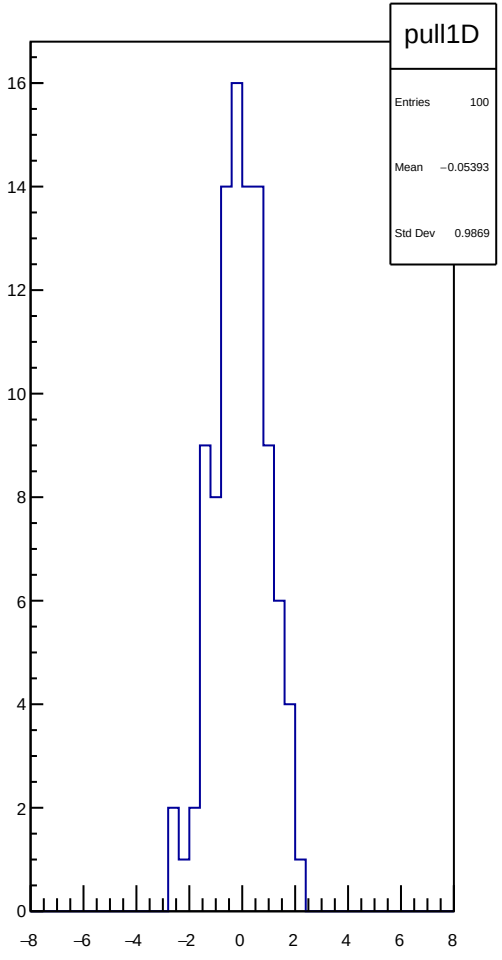

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.177e+05 / 99
p0 36.69 ± 0.02893
140
120
100
80
60
40
20

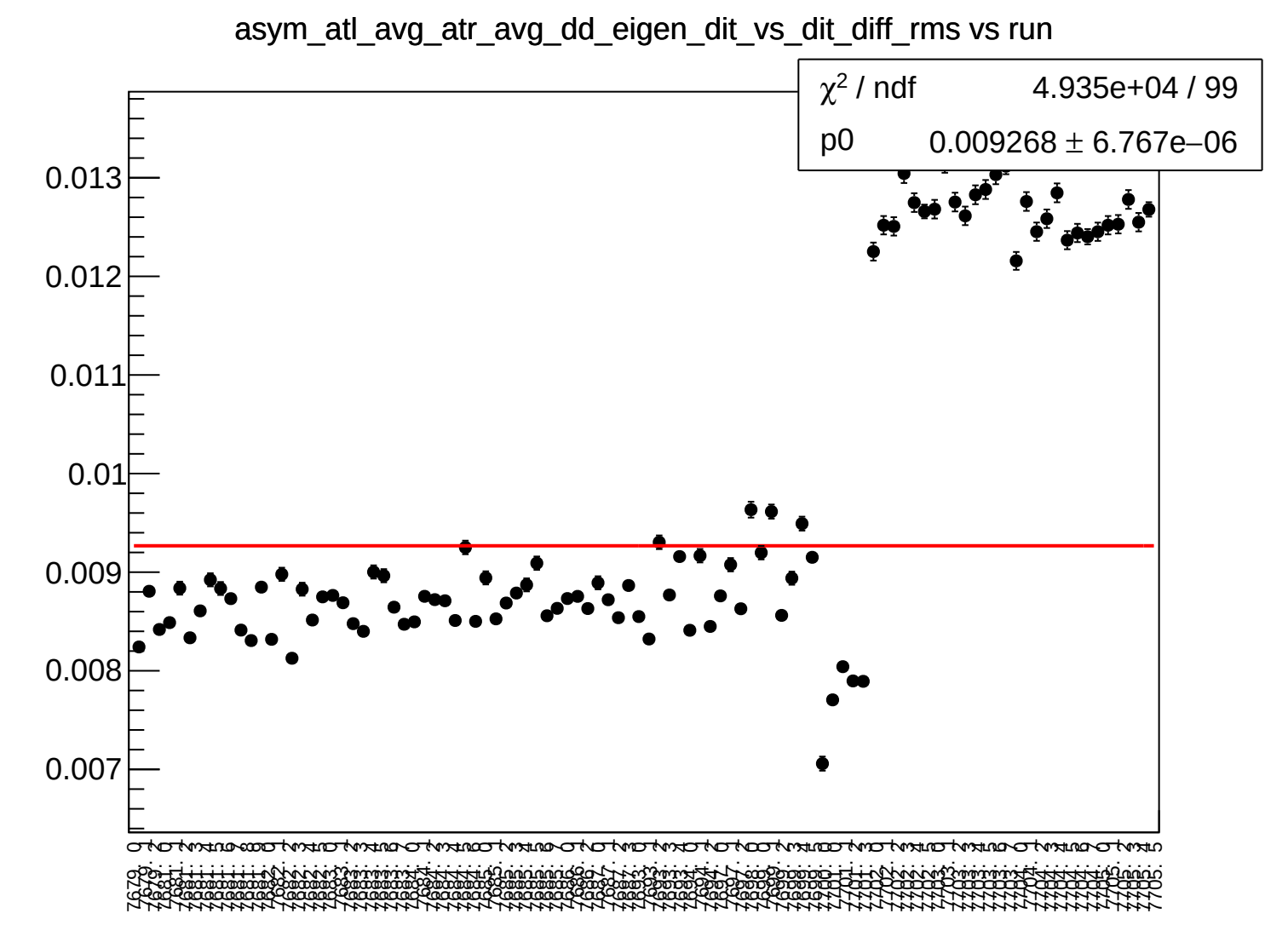

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.49 / 99
p0 −0.008936 ± 0.04092
pull
Entries 100
Mean 183.4
Std Dev 0

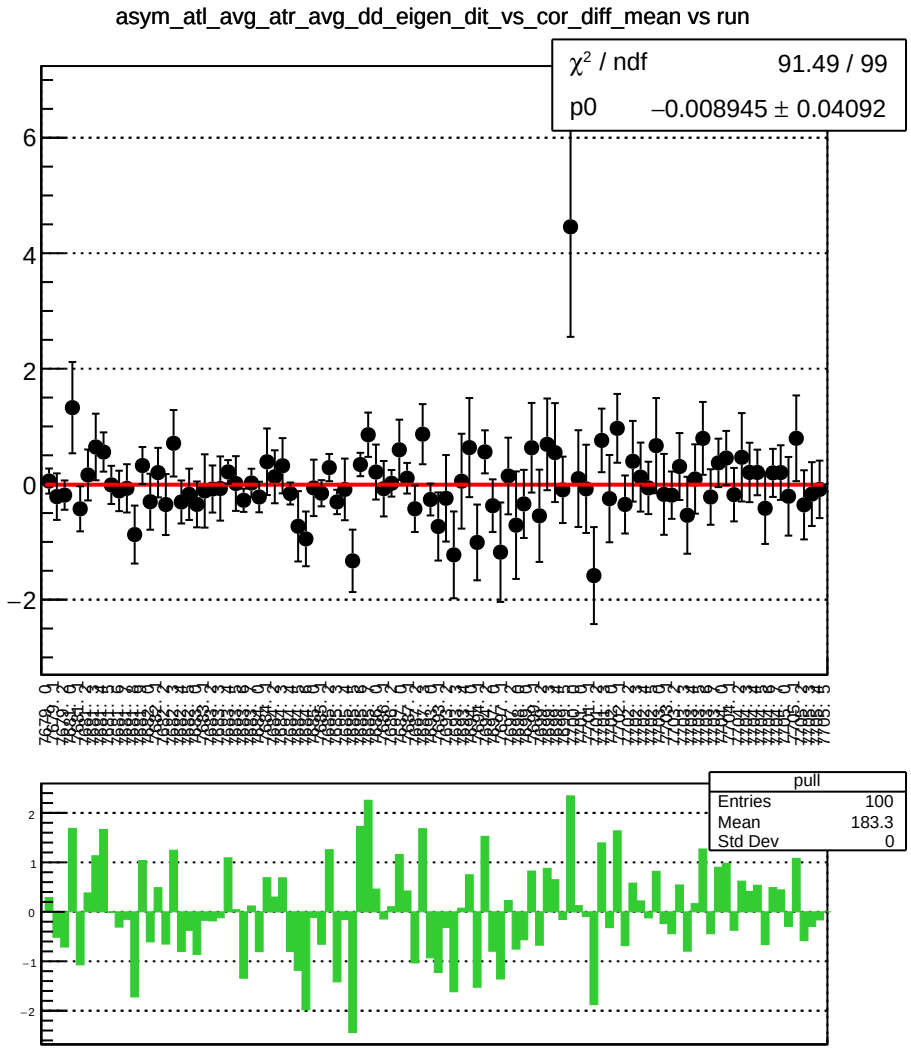

pull1D
Entries 100
Mean 0.01777
Std Dev 0.9563

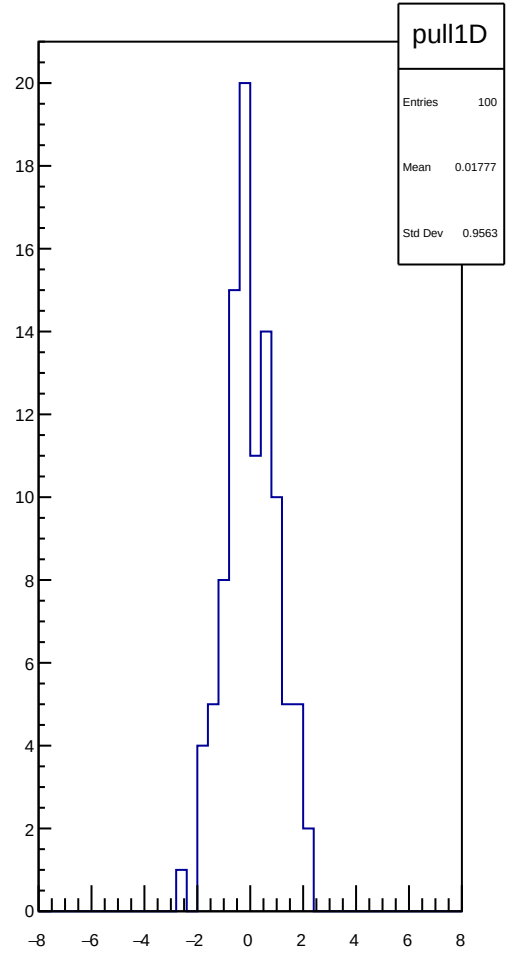

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.177e+05 / 99
p0 36.69 ± 0.02893
140
120
100
80
60
40
20

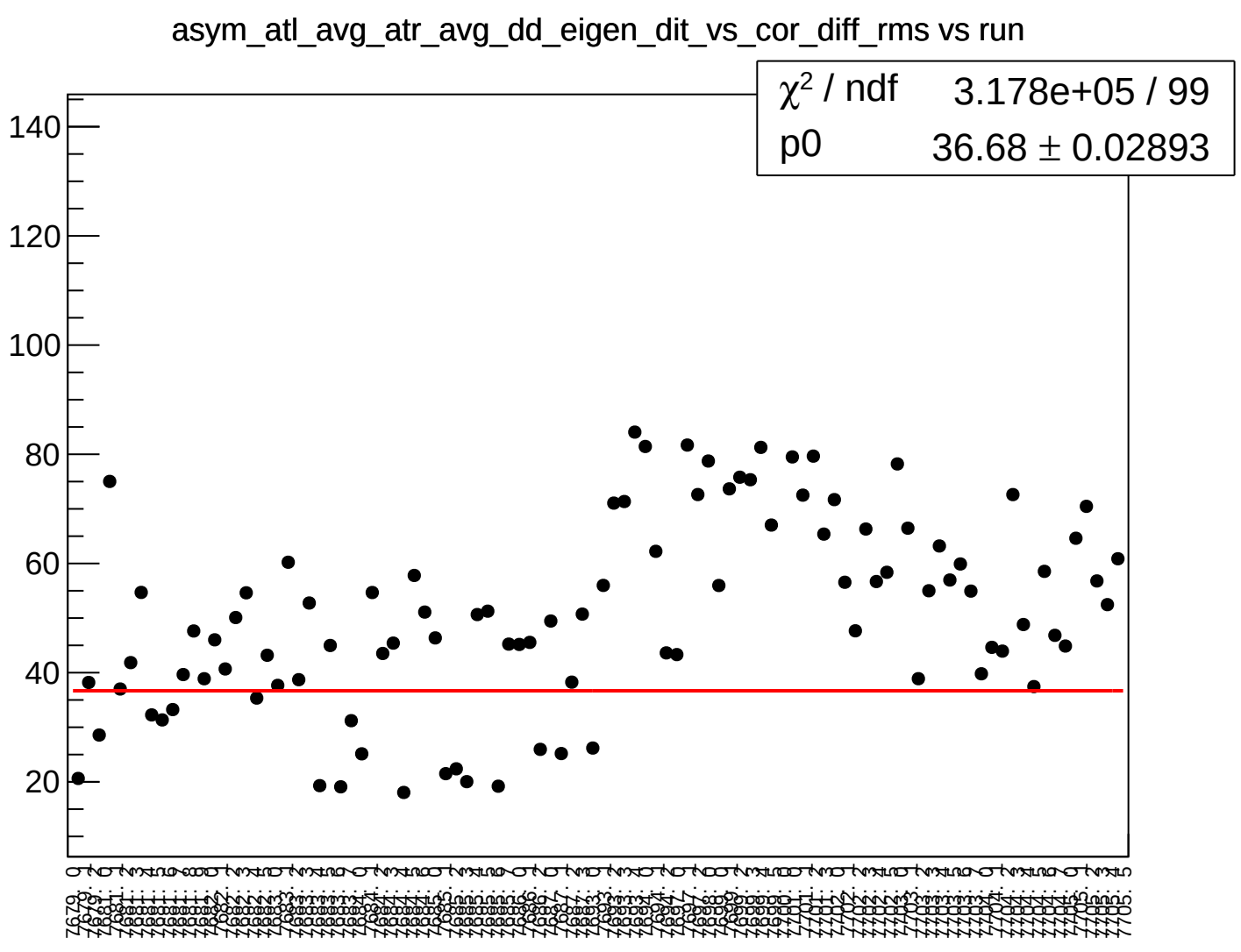

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.68 / 99
p0 −1.411e−06 ± 9.569e−06
pull
Entries 100
Mean 178.3
Std Dev 0

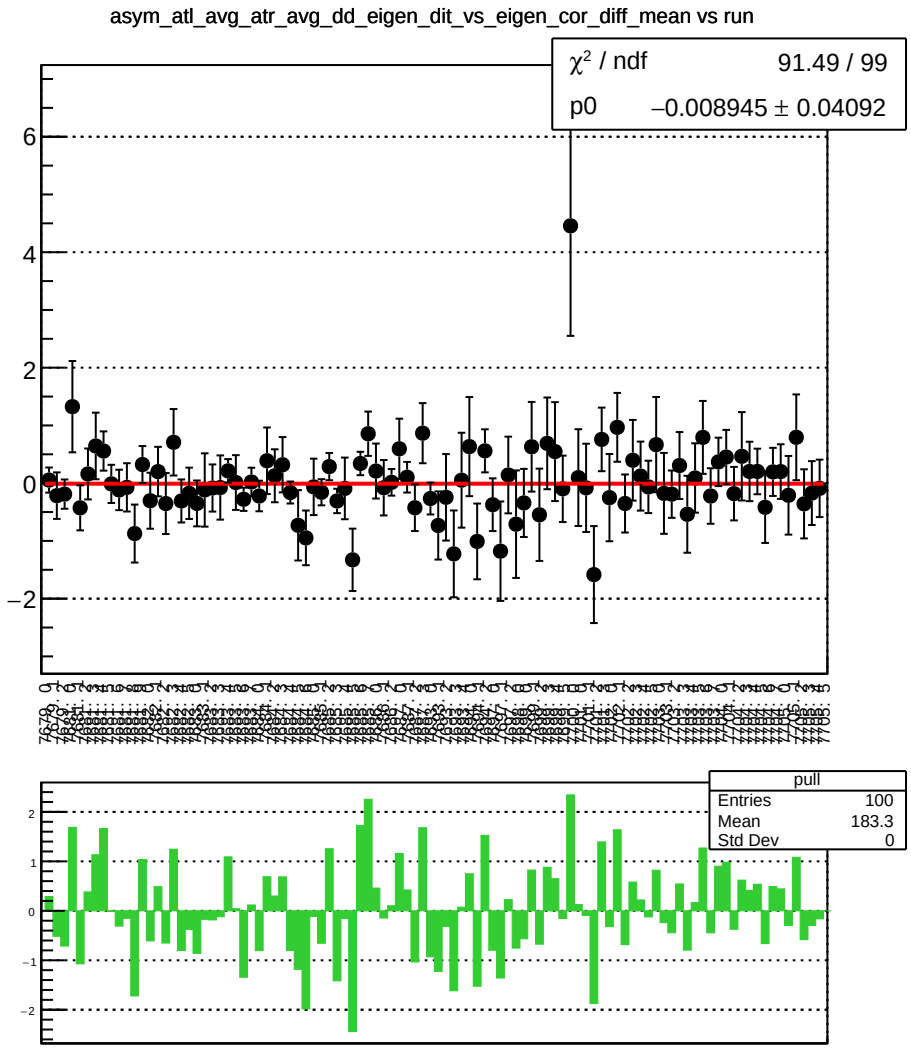

pull1D
Entries 100
Mean −0.05393
Std Dev 0.9869

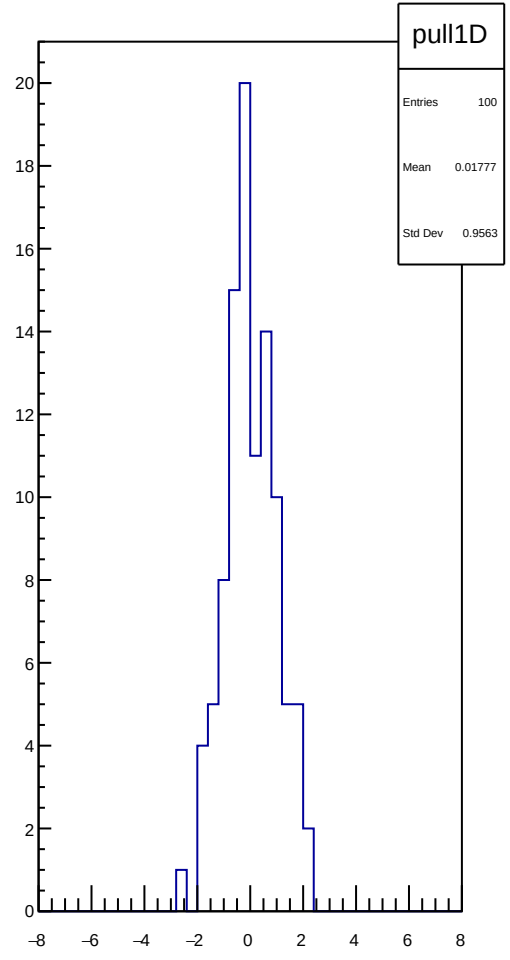

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.935e+04 / 99
p0 0.009268 ± 6.767e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007

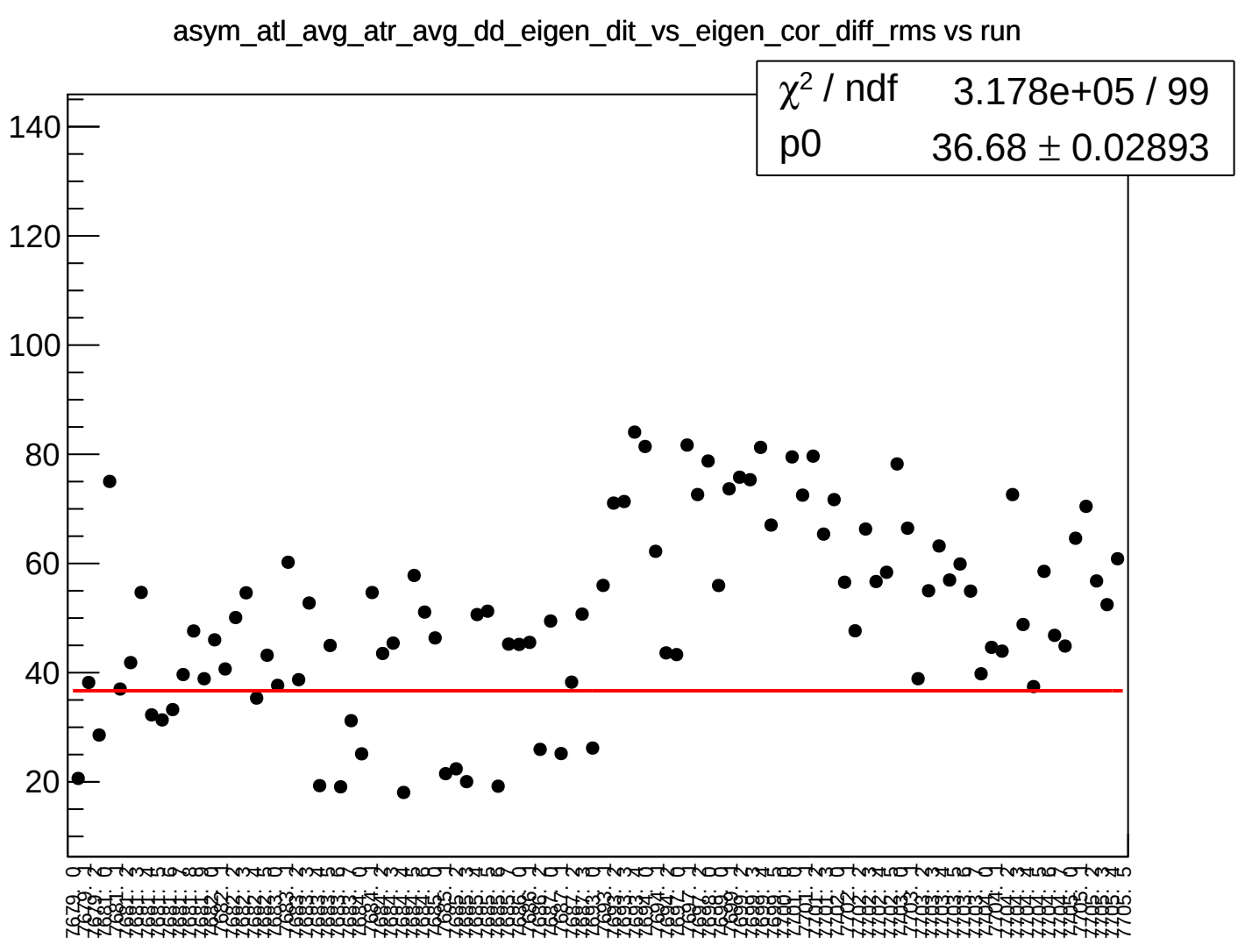

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.49 / 99
p0 −0.008945 ± 0.04092
pull
Entries 100
Mean 183.3
Std Dev 0

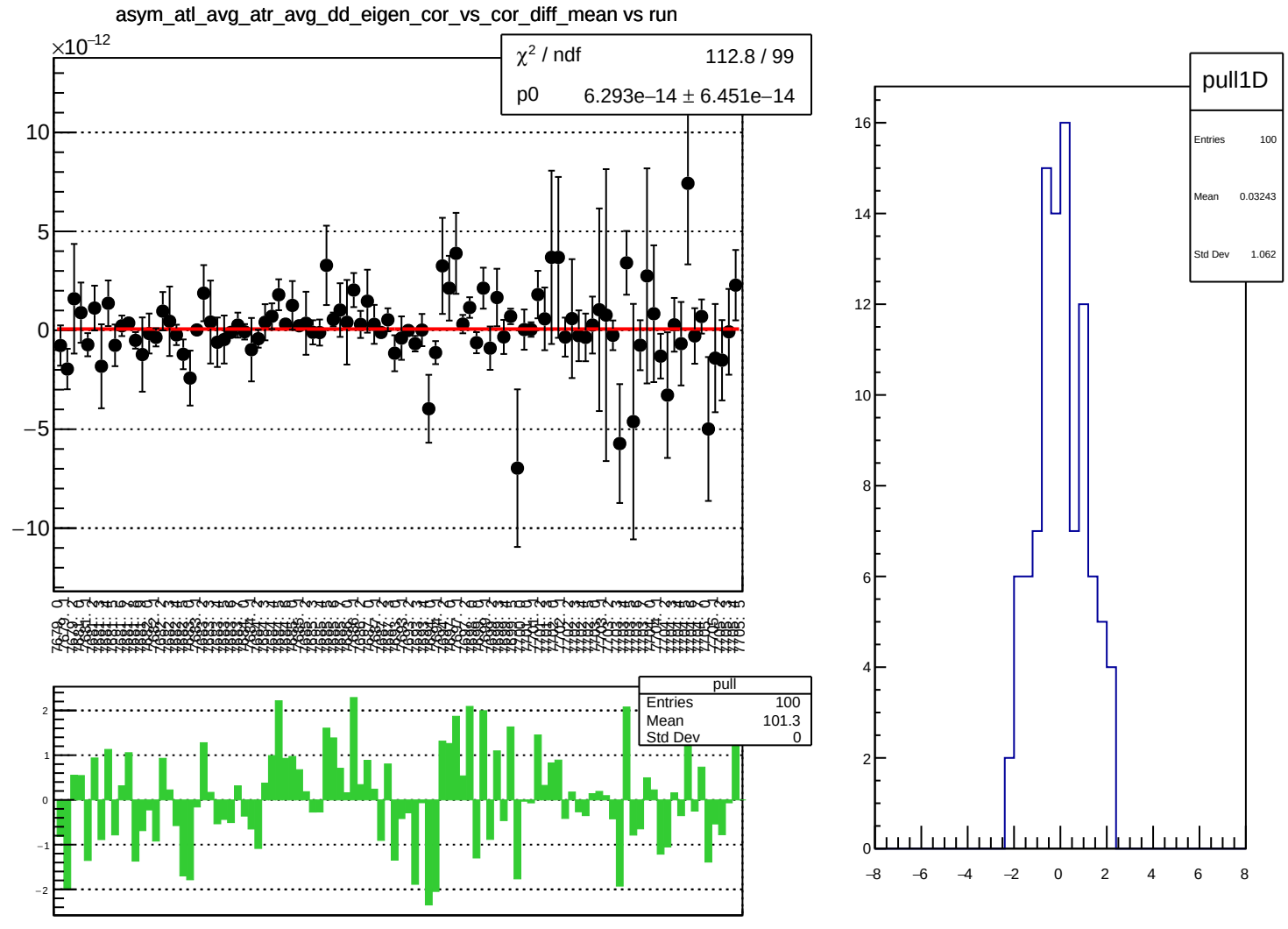

pull1D
Entries 100
Mean 0.01777
Std Dev 0.9563

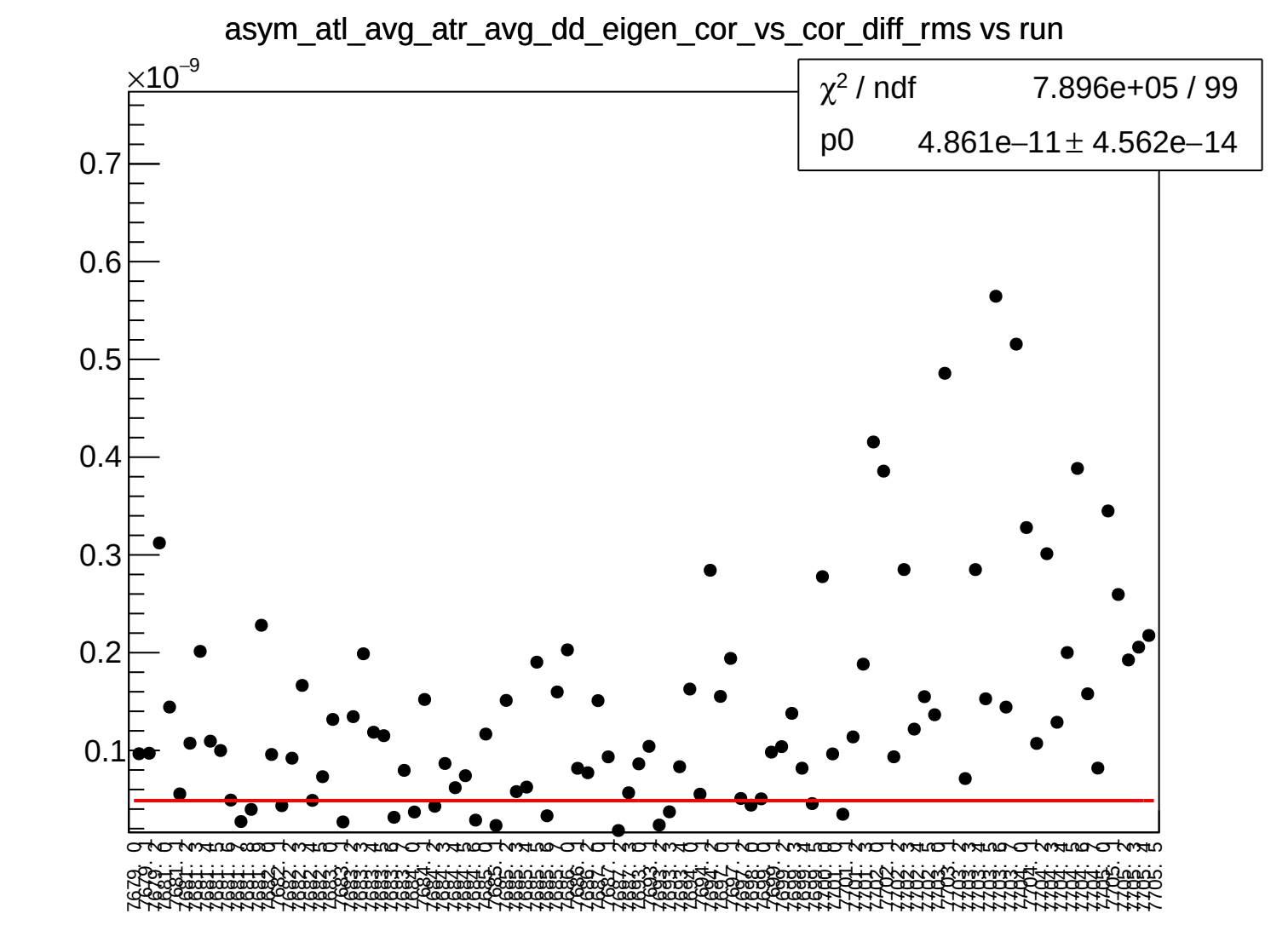

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.178e+05 / 99
p0 36.68 ± 0.02893
140
120
100
80
60
40
20

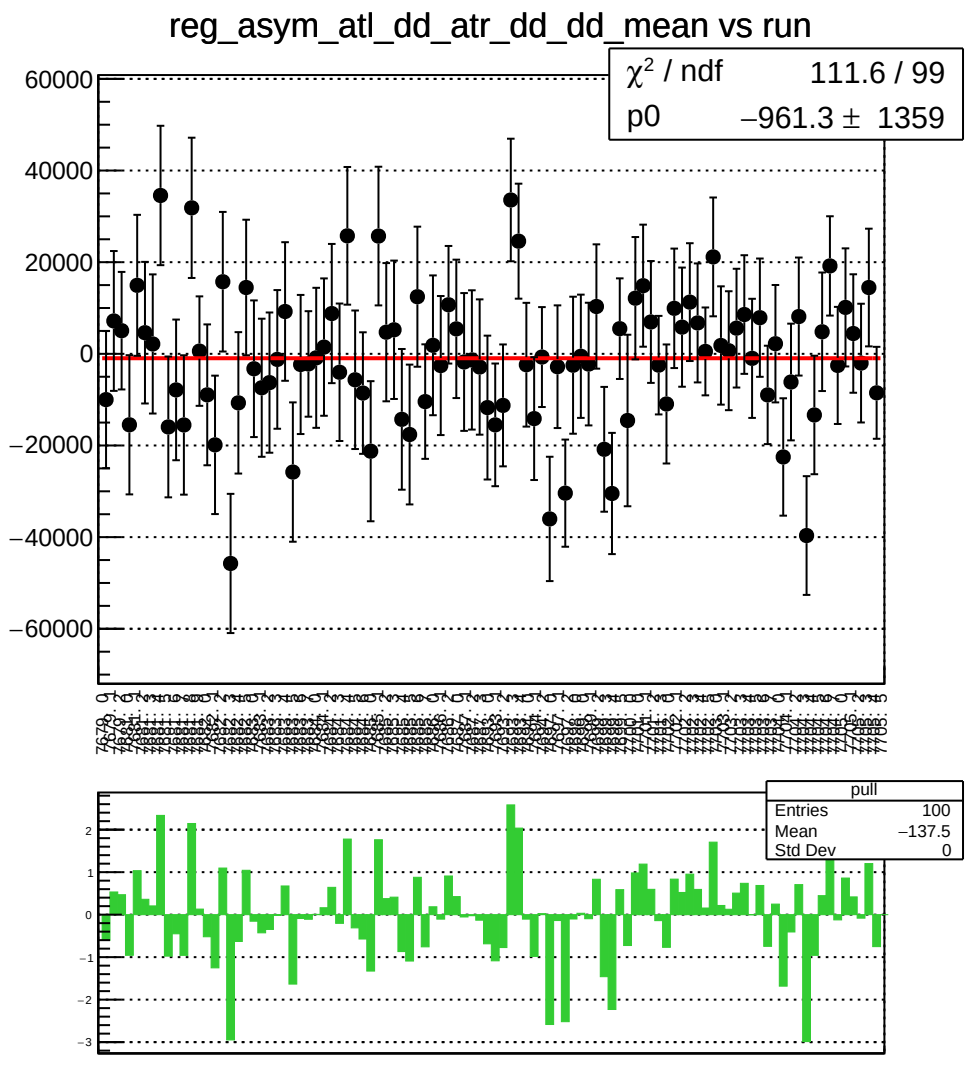

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.49 / 99
p0 −0.008945 ± 0.04092
pull
Entries 100
Mean 183.3
Std Dev 0

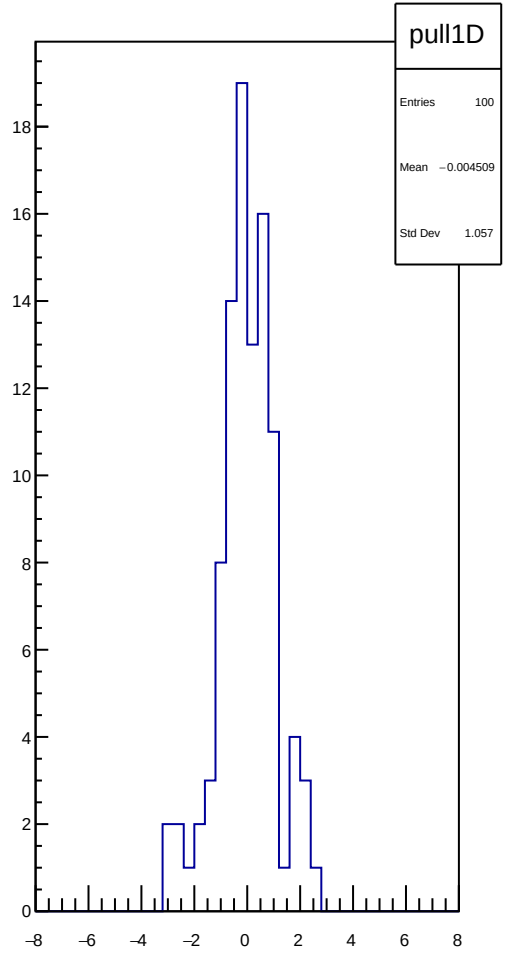

pull1D
Entries 100
Mean 0.01777
Std Dev 0.9563

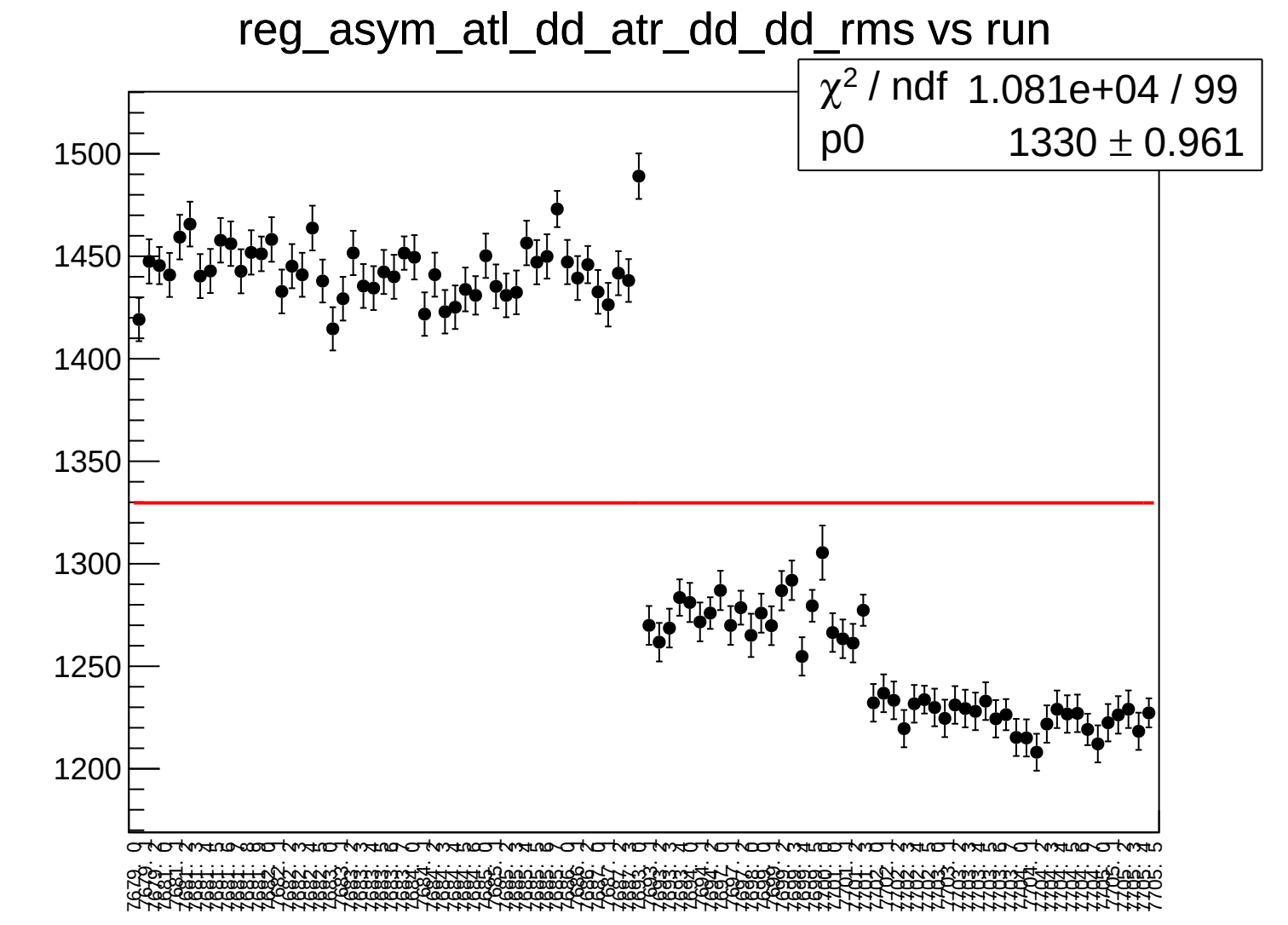

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.178e+05 / 99
p0 36.68 ± 0.02893
140
120
100
80
60
40
20

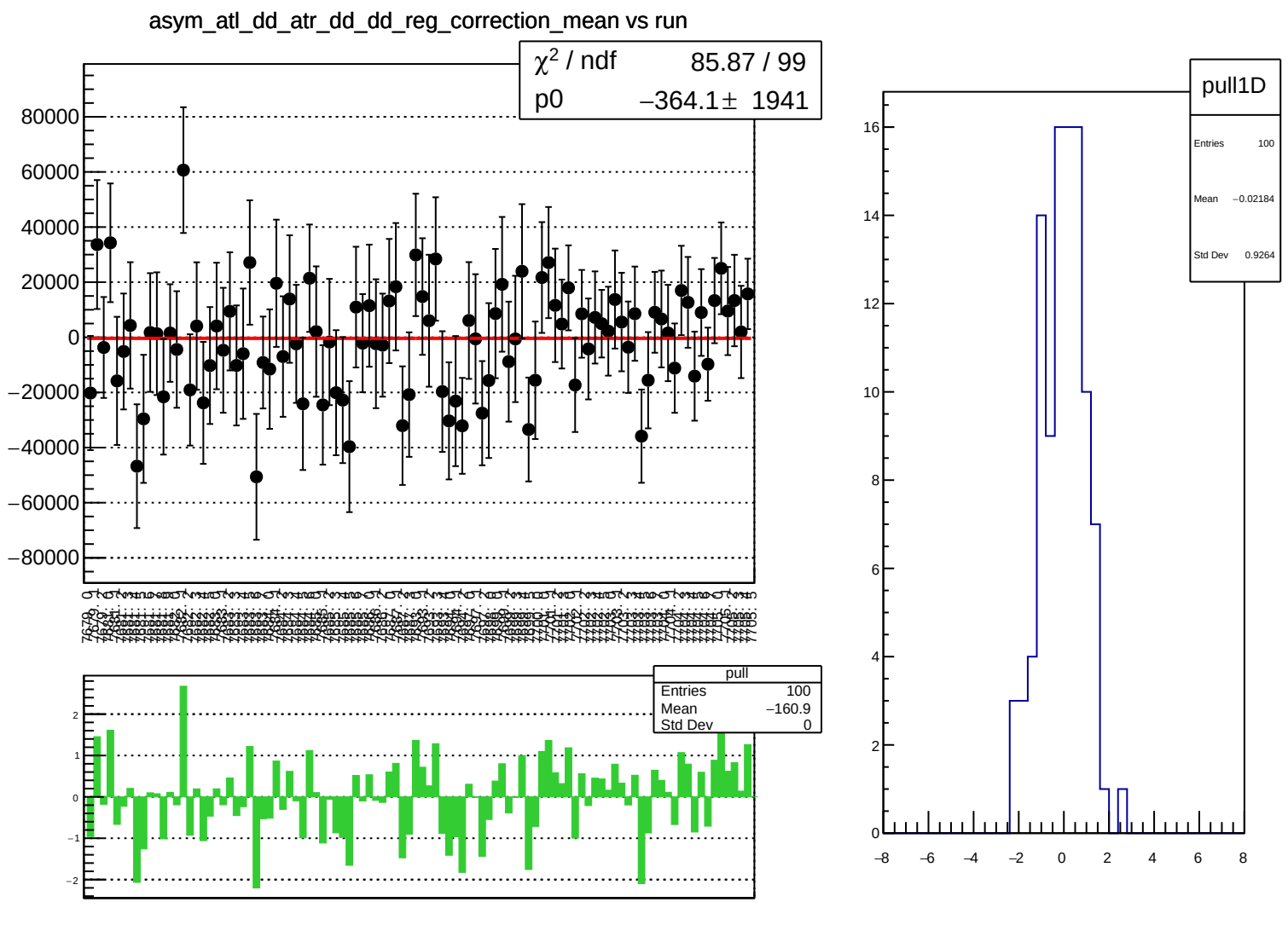

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 112.8 / 99
p0 6.293e−14 ± 6.451e−14
pull
Entries 100
Mean 101.3
Std Dev 0
pull1D
Entries 100
Mean 0.03243
Std Dev 1.062

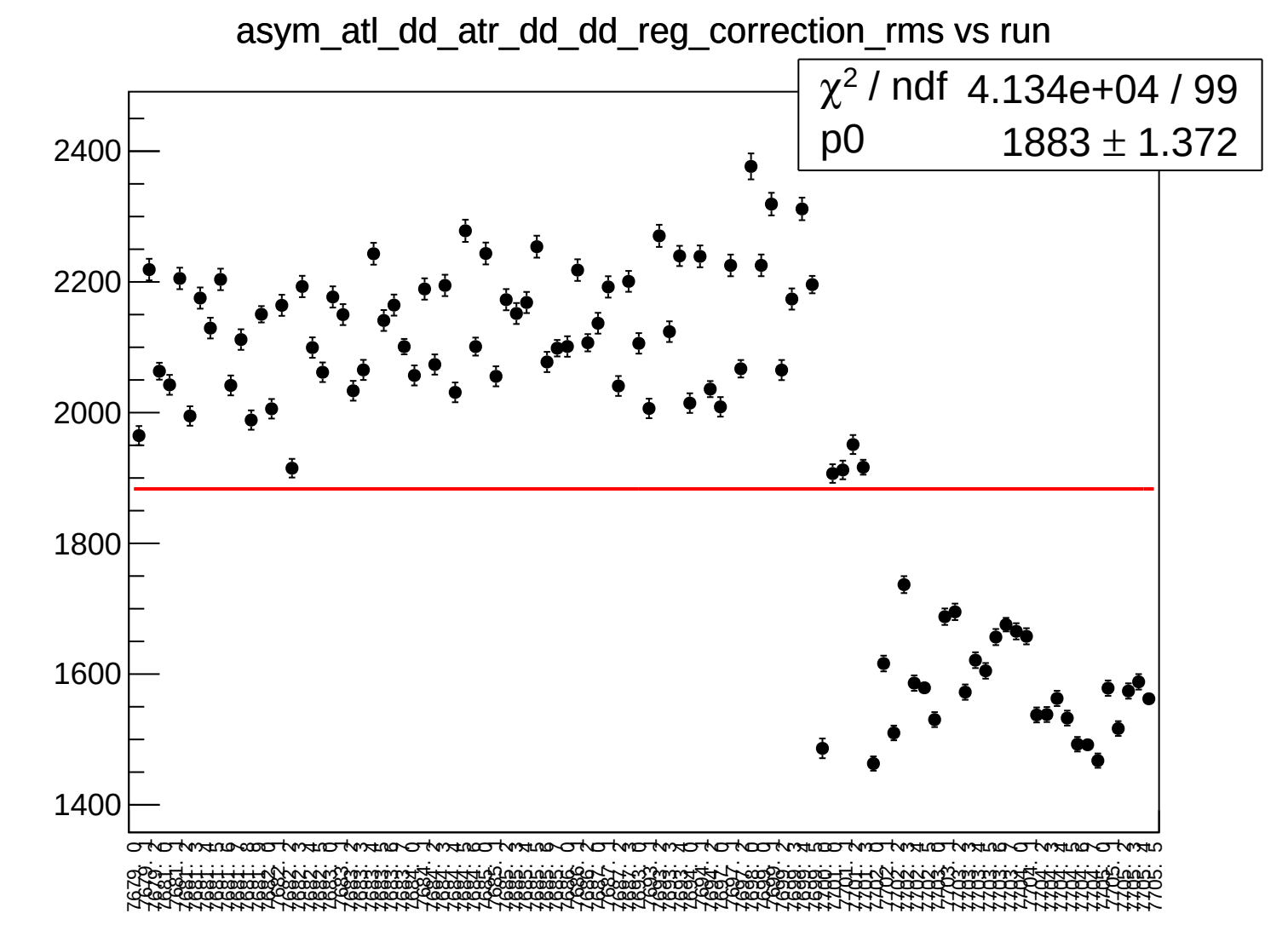

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.896e+05 / 99
p0 4.861e−11 ± 4.562e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

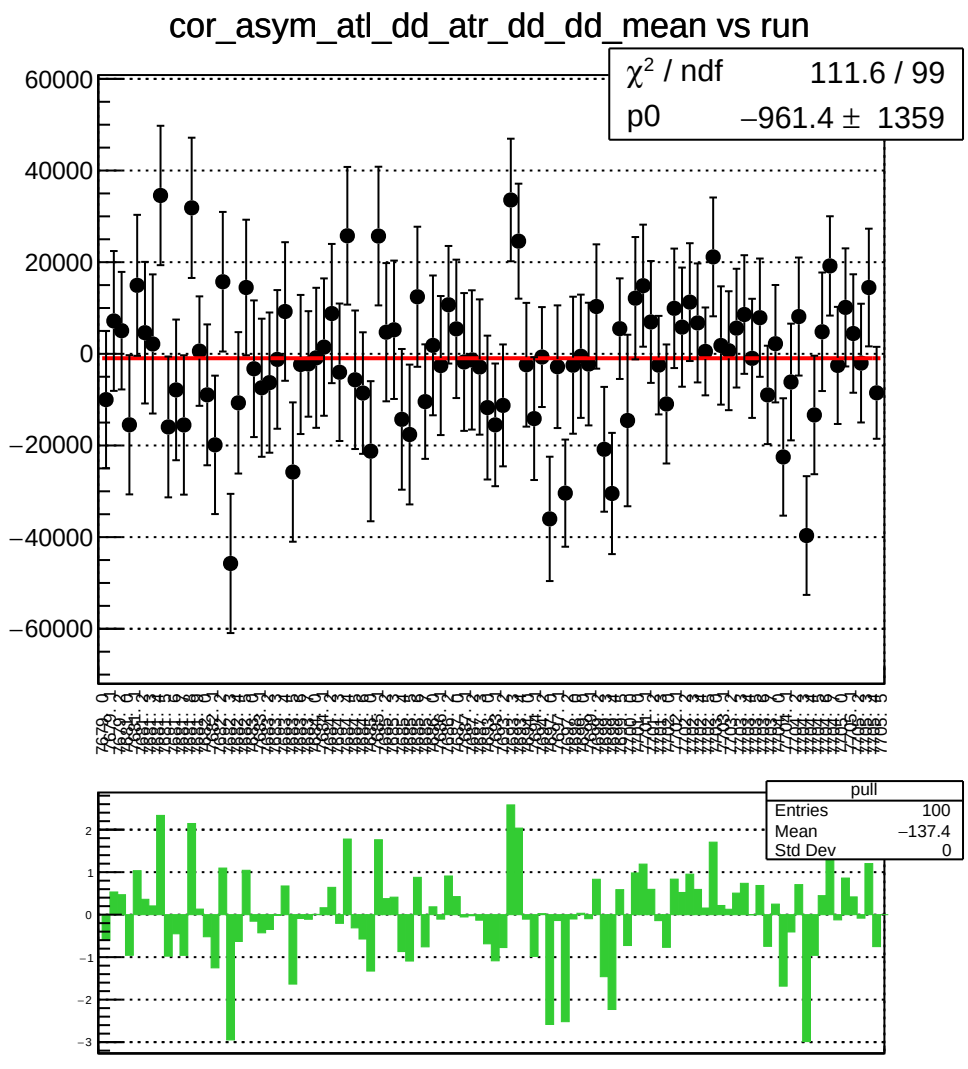

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 111.6 / 99
p0 −961.3 ± 1359
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −137.5
Std Dev 0
2
1
0
−1
−2
−3

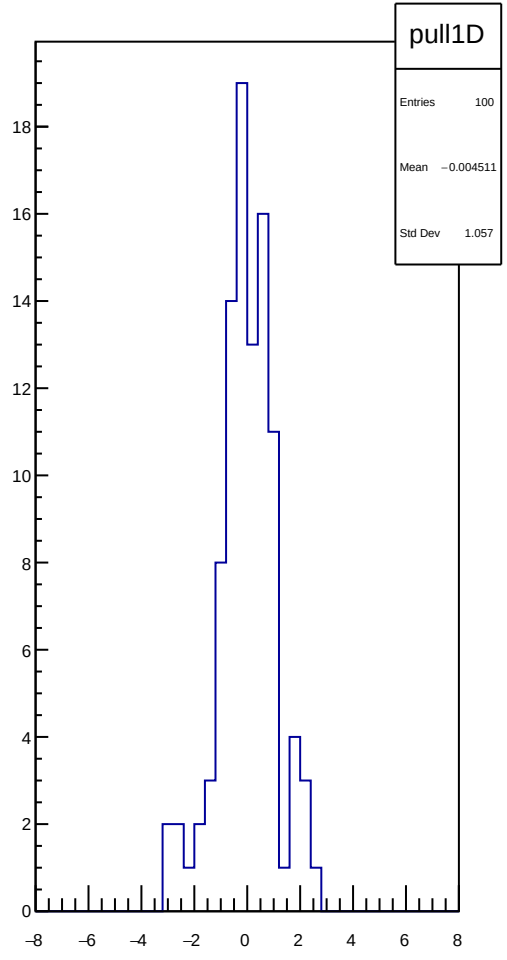

pull1D
Entries 100
Mean −0.004509
Std Dev 1.057
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

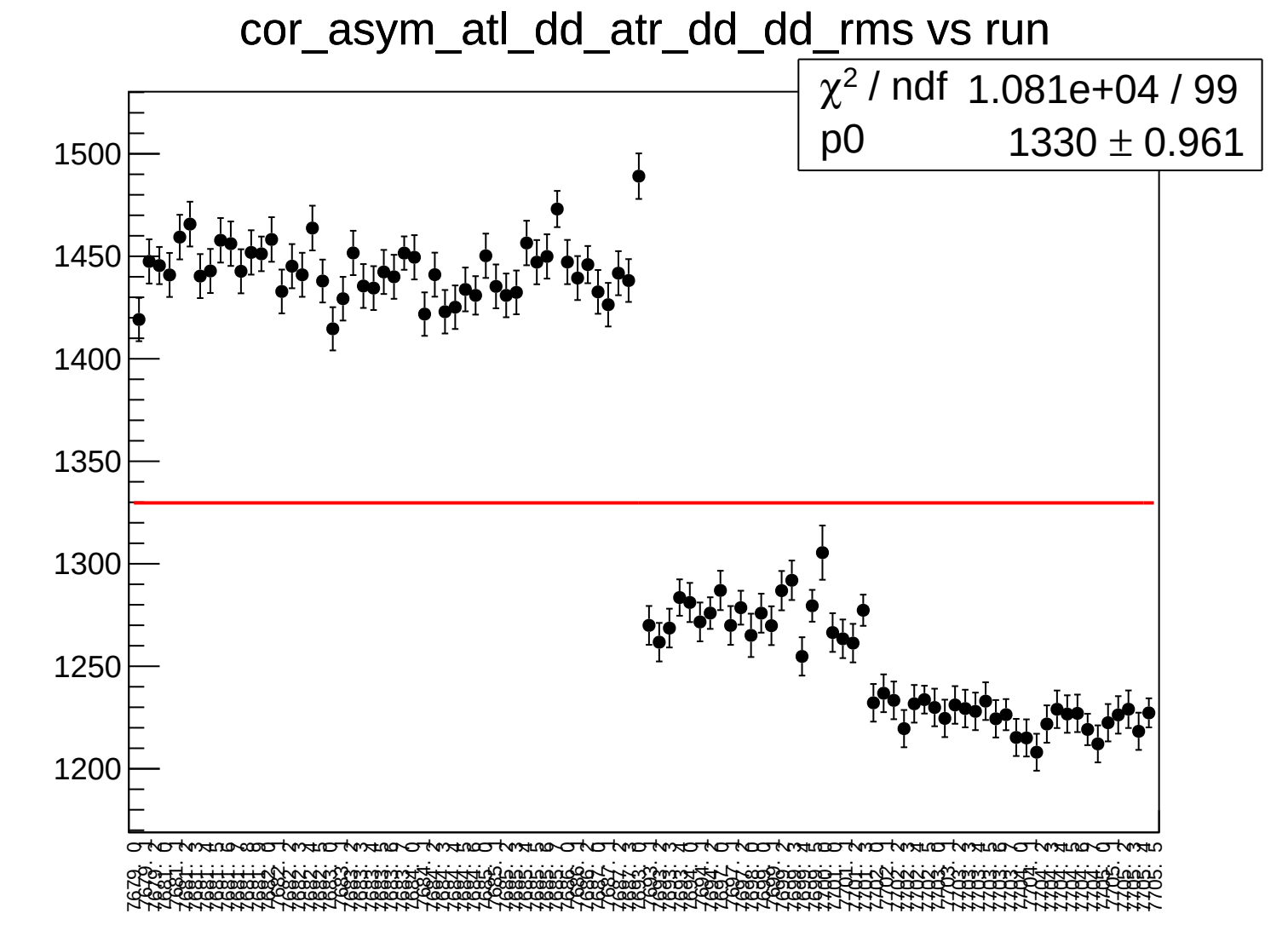

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1.081e+04 / 99
p0 1330 ± 0.961
1500
1450
1400
1350
1300
1250
1200

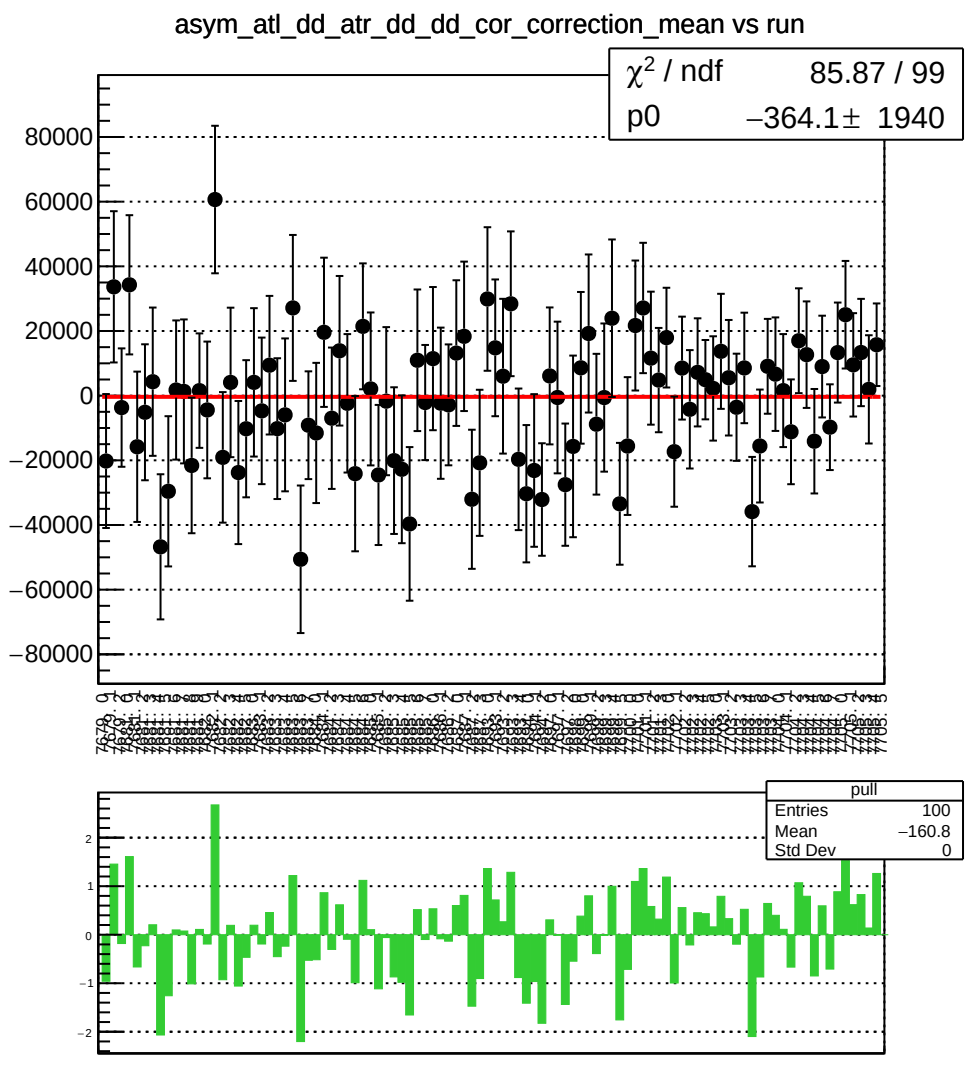

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 85.87 / 99
p0 −364.1± 1941
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −160.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.02184
Std Dev 0.9264
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

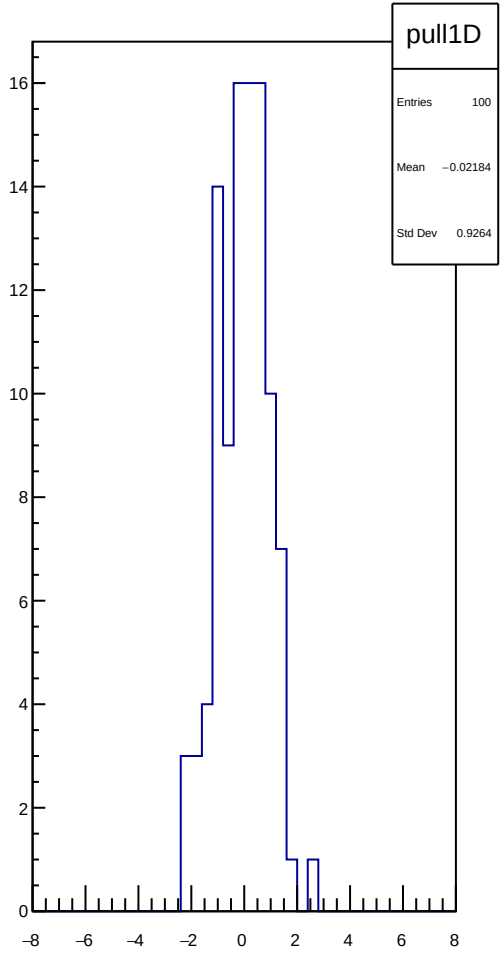

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 4.134e+04 / 99
p0 1883 ± 1.372
2400
2200
2000
1800
1600
1400

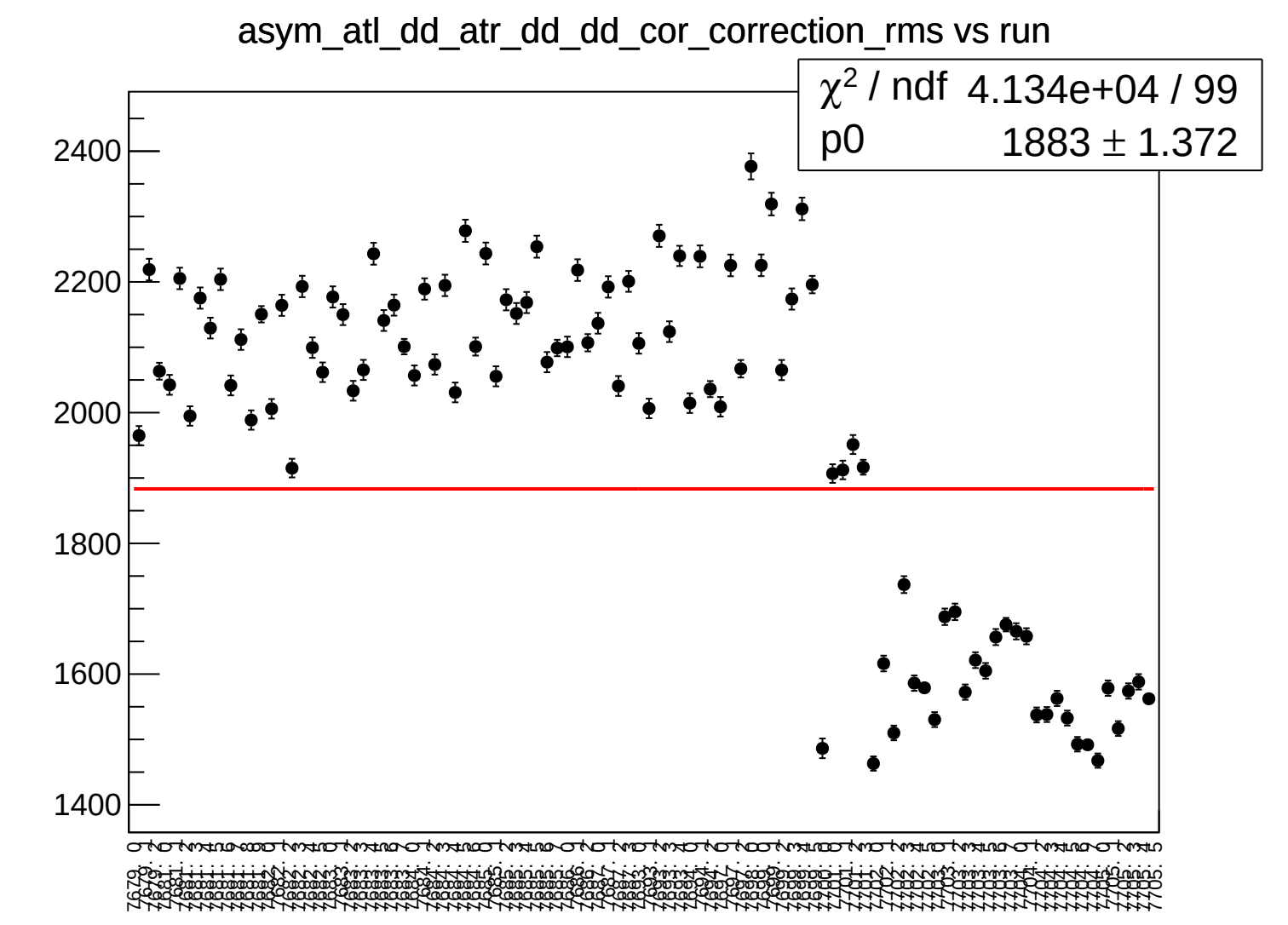

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 111.6 / 99
p0 −961.4 ± 1359
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −137.4
Std Dev 0
2
1
0
−1
−2
−3

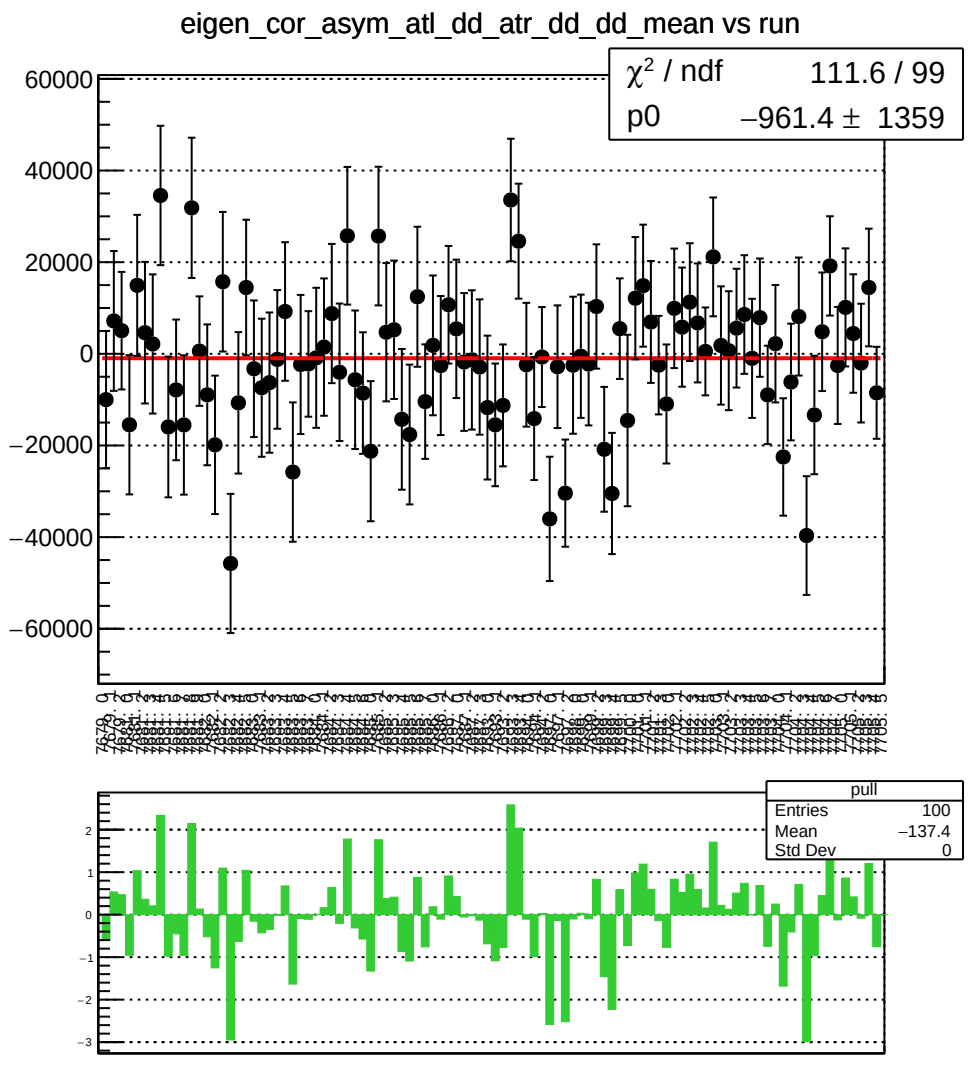

pull1D
Entries 100
Mean −0.004511
Std Dev 1.057
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

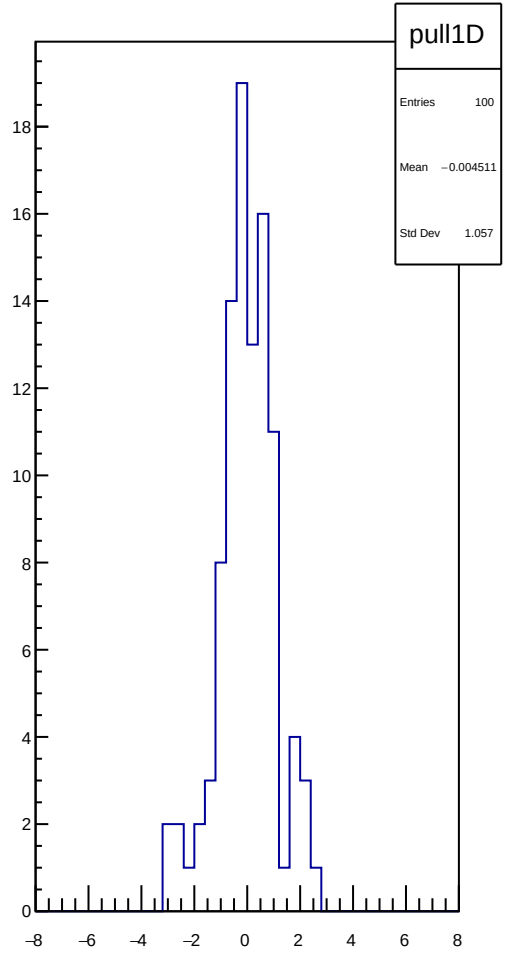

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1.081e+04 / 99
p0 1330 ± 0.961
1500
1450
1400
1350
1300
1250
1200

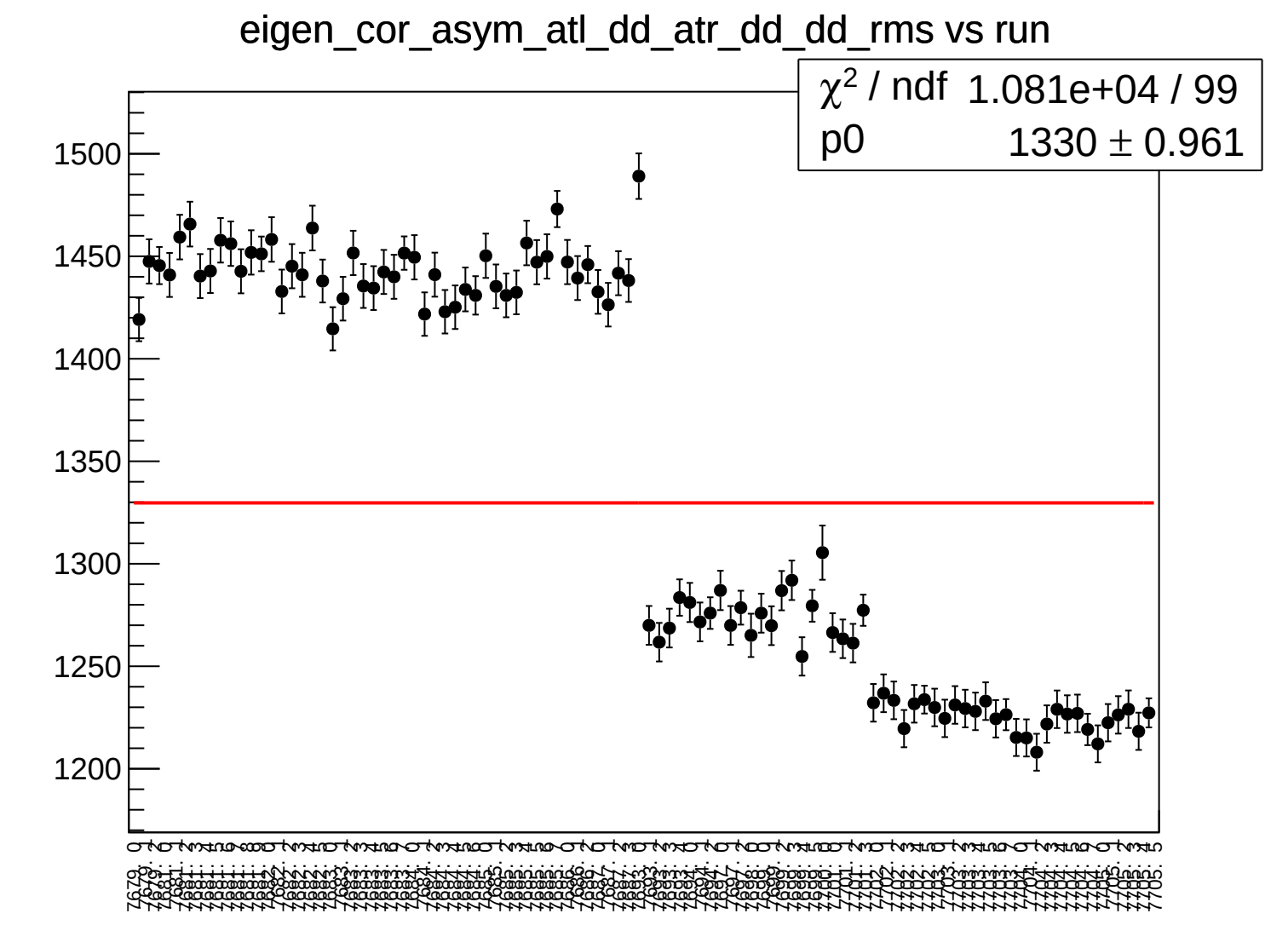

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 85.87 / 99
p0 −364.1± 1940
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −160.8
Std Dev 0
2
1
0
−1
−2

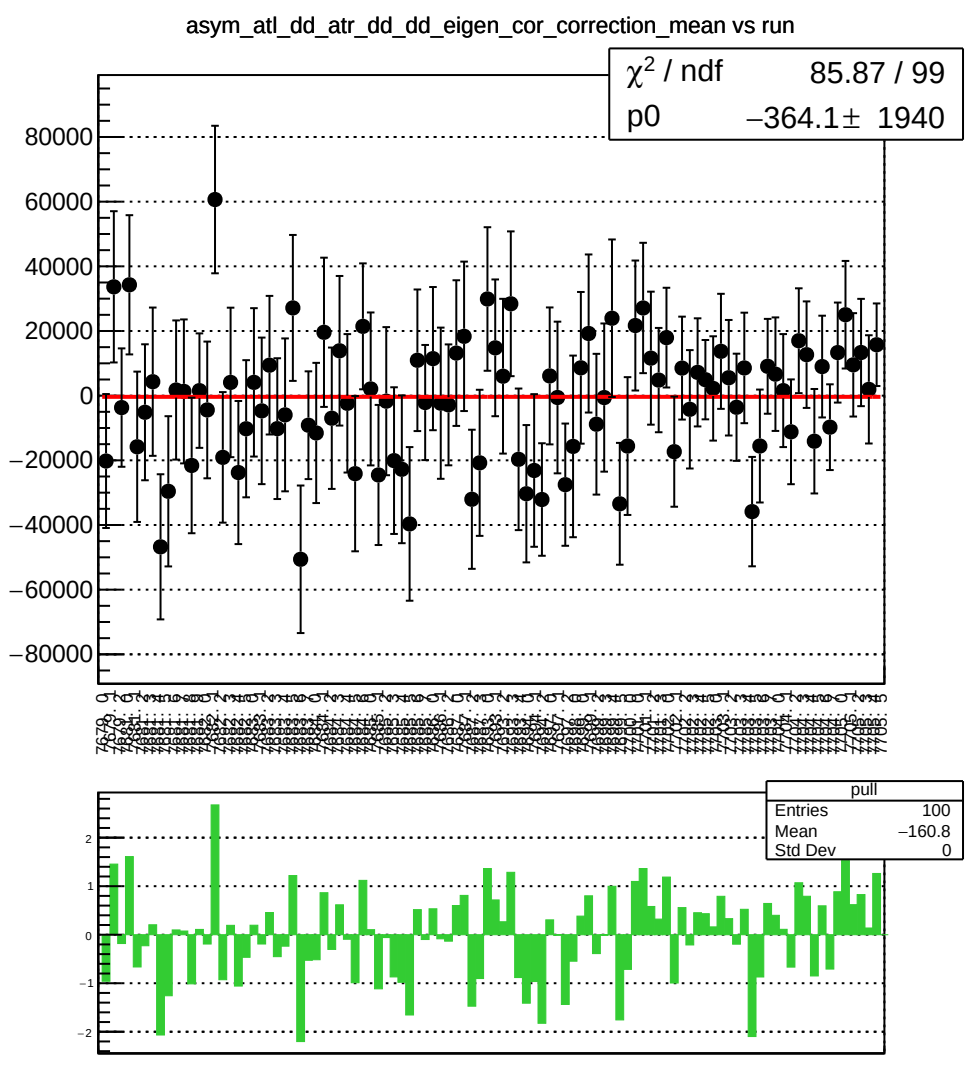

pull1D
Entries 100
Mean −0.02184
Std Dev 0.9264
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

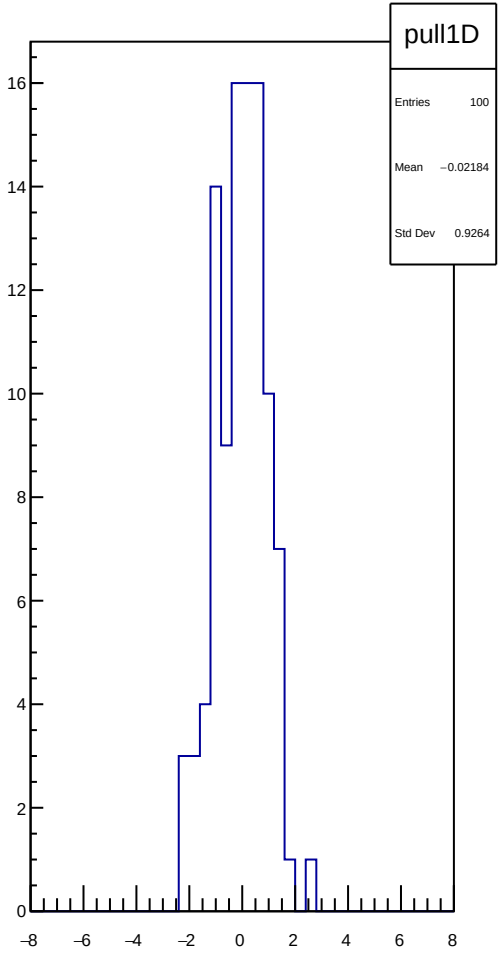

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 4.134e+04 / 99
p0 1883 ± 1.372
2400
2200
2000
1800
1600
1400

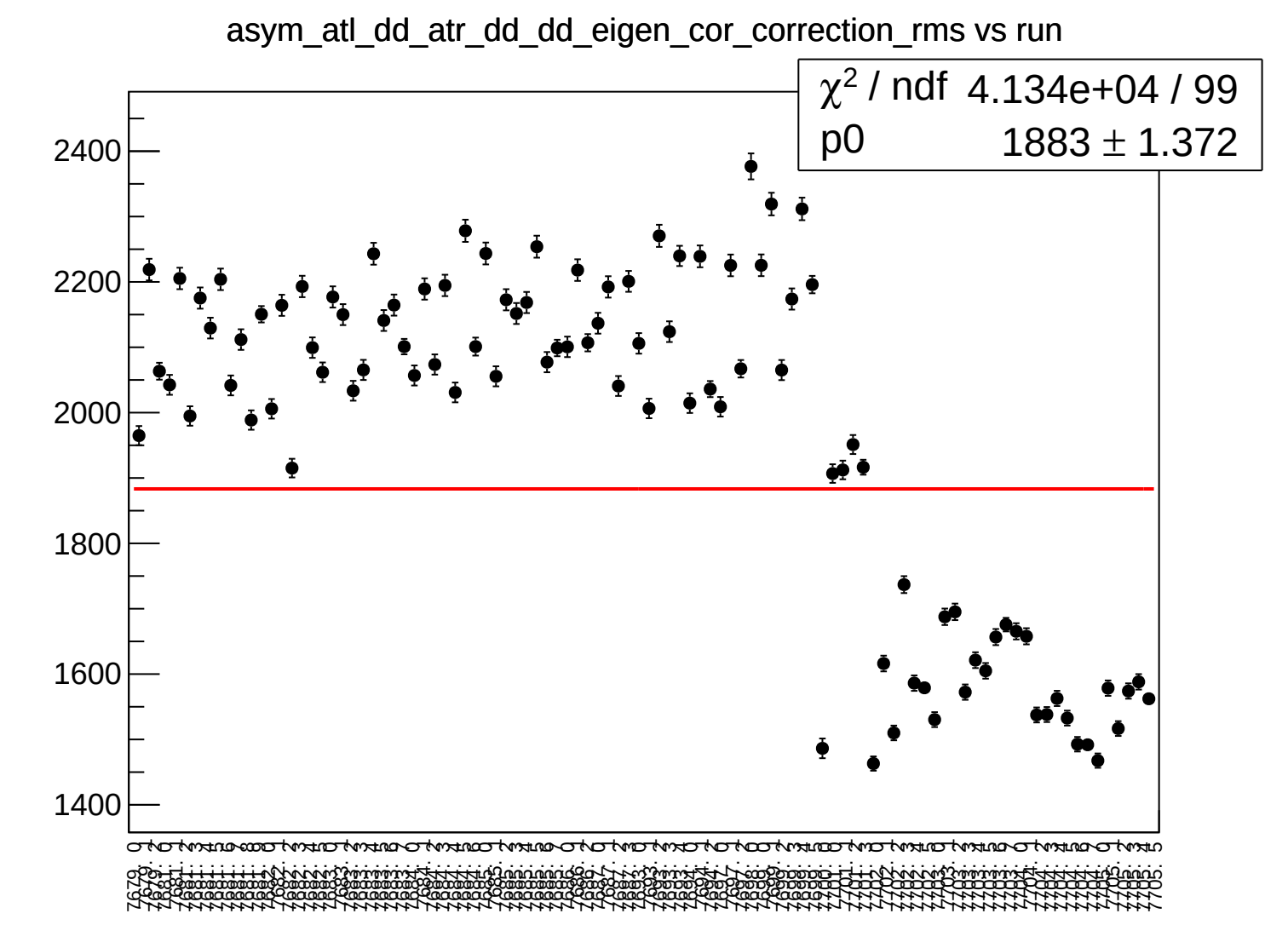

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 111.6 / 99
p0 −961.4 ± 1359
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −137.4
Std Dev 0
2
1
0
−1
−2
−3

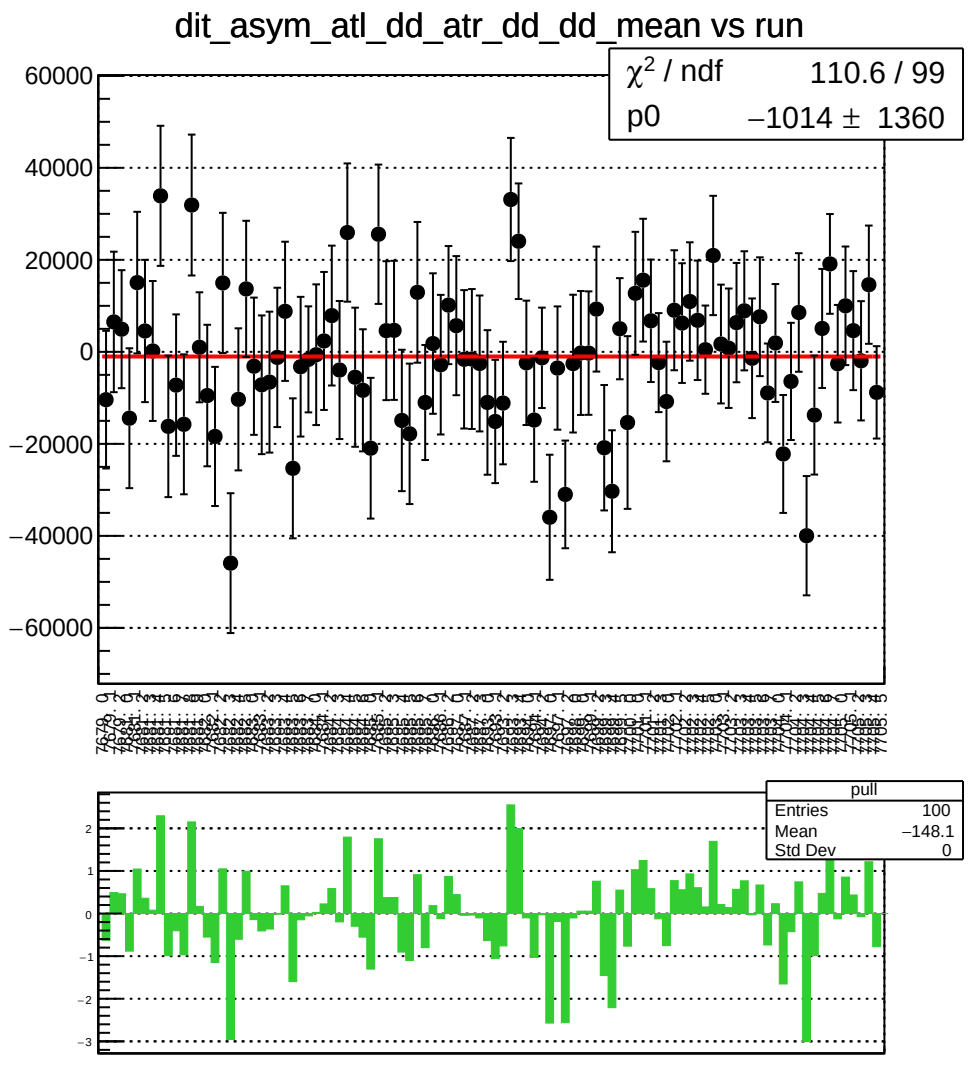

pull1D
Entries 100
Mean −0.004511
Std Dev 1.057
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

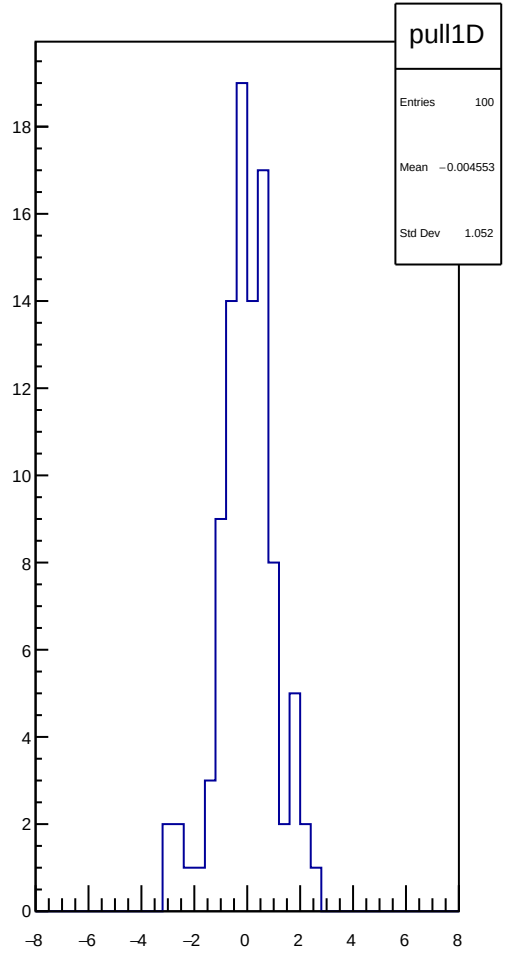

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1.081e+04 / 99
p0 1330 ± 0.961
1500
1450
1400
1350
1300
1250
1200

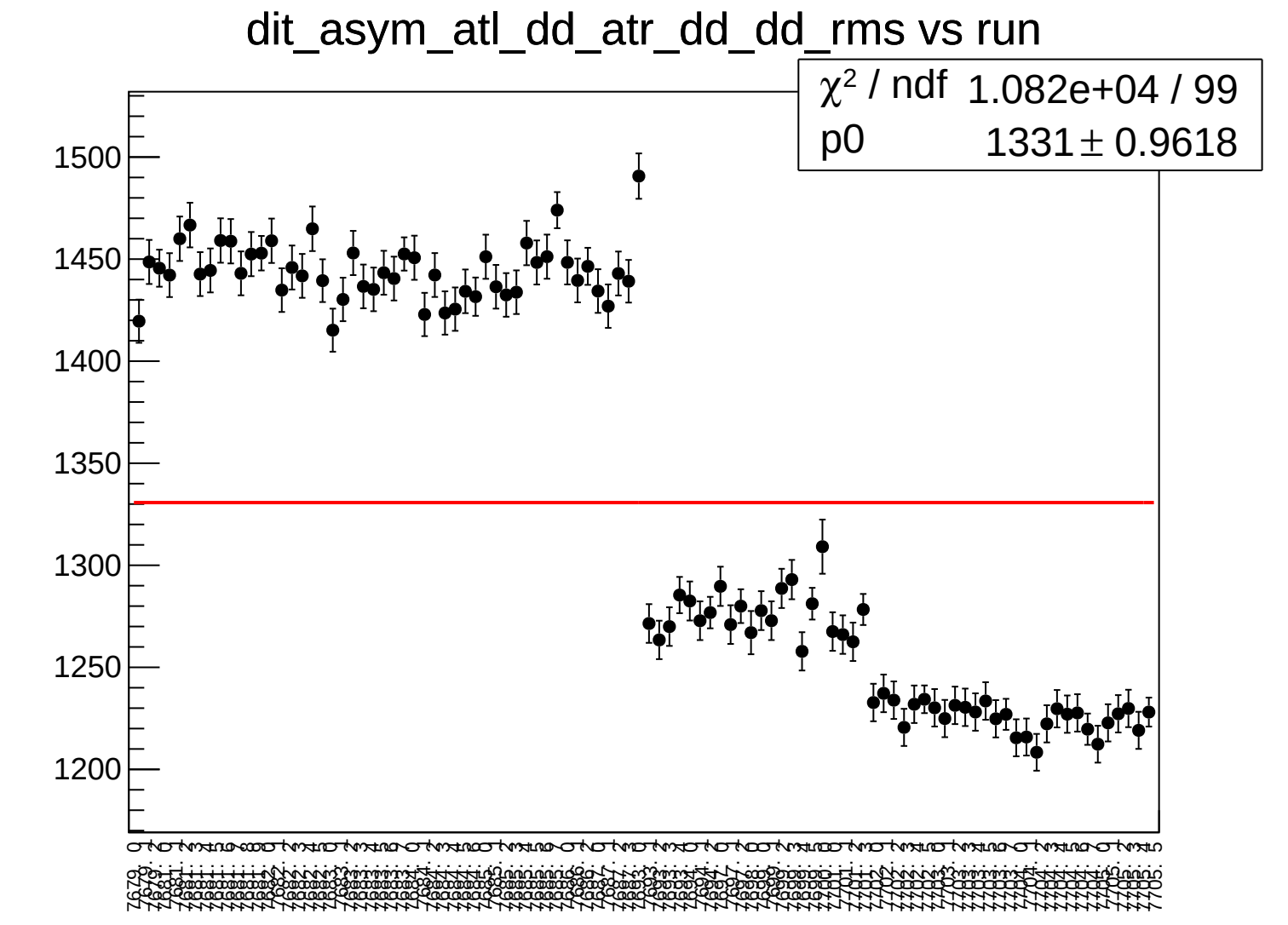

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 85.87 / 99
p0 −364.1± 1940
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −160.8
Std Dev 0
2
1
0
−1
−2

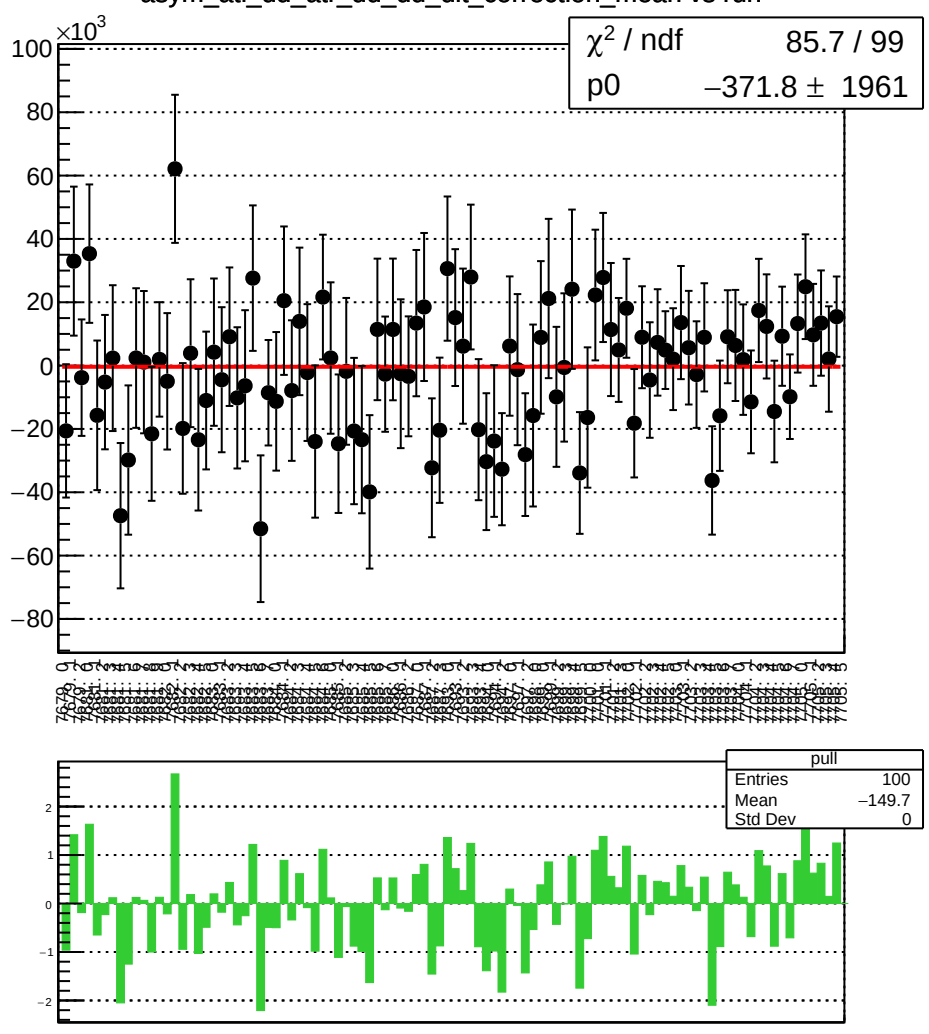

pull1D
Entries 100
Mean −0.02184
Std Dev 0.9264
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

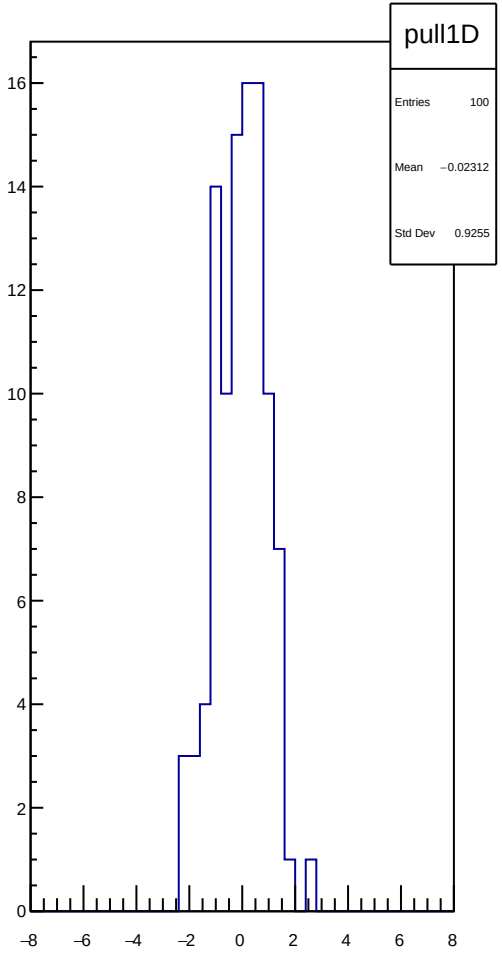

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 4.134e+04 / 99
p0 1883 ± 1.372
2400
2200
2000
1800
1600
1400

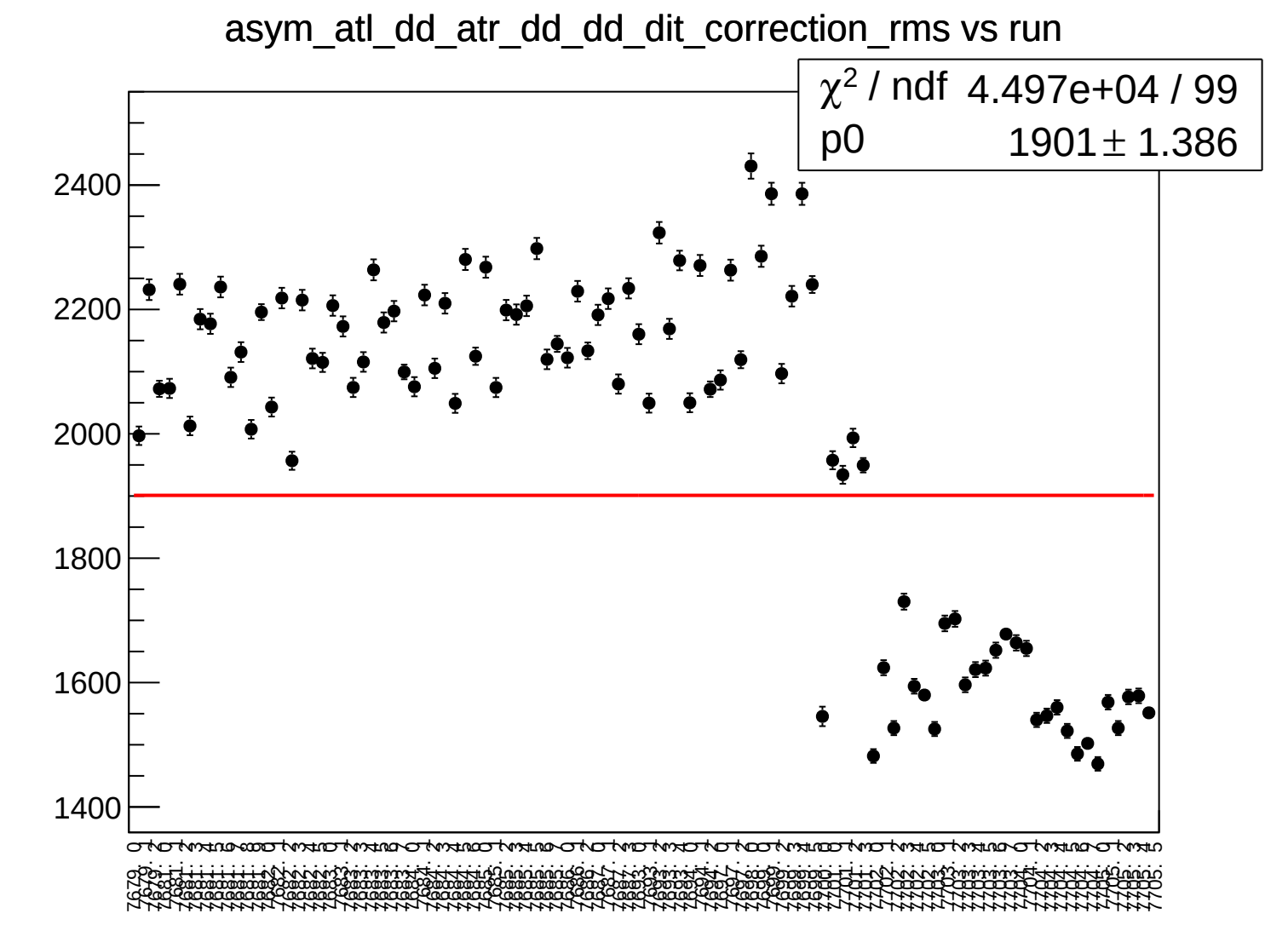

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 110.6 / 99
p0 −1014 ± 1360
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −148.1
Std Dev 0
2
1
0
−1
−2
−3

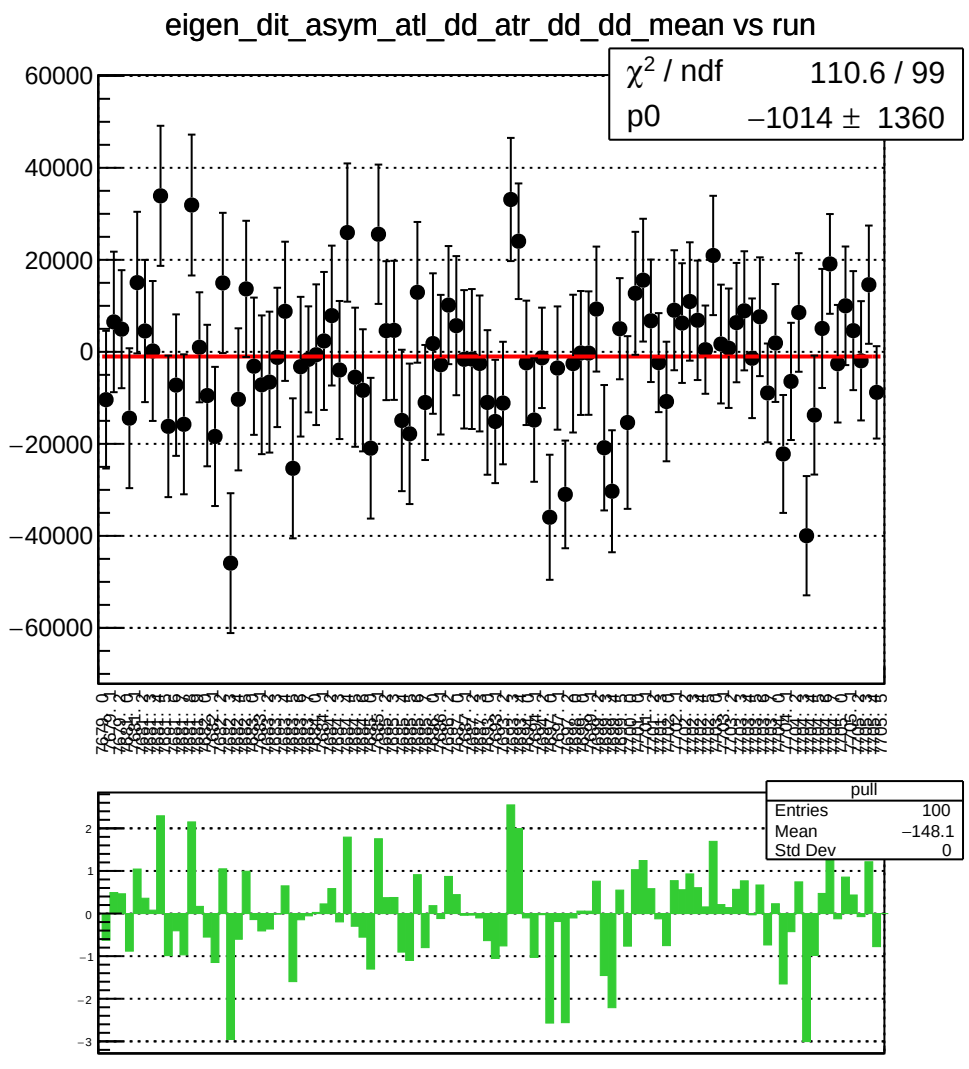

pull1D
Entries 100
Mean −0.004553
Std Dev 1.052
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

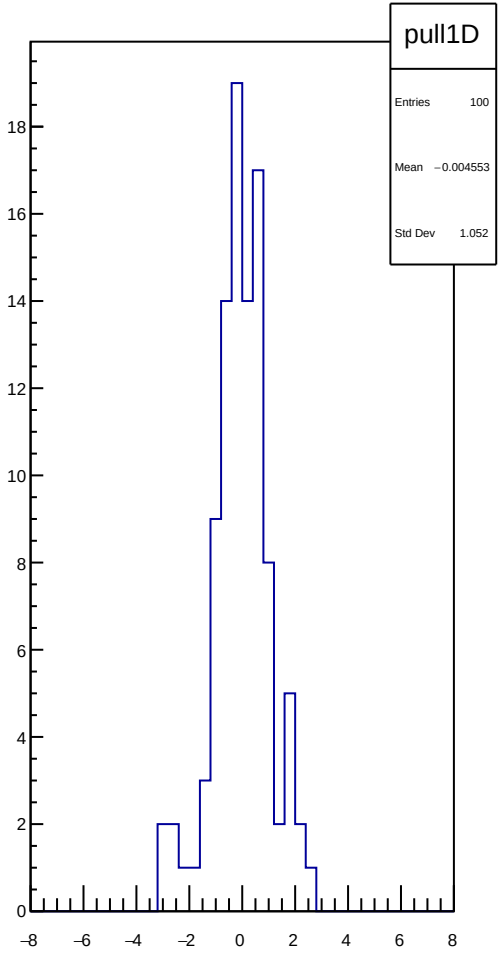

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1.082e+04 / 99
p0 1331 ± 0.9618
1500
1450
1400
1350
1300
1250
1200

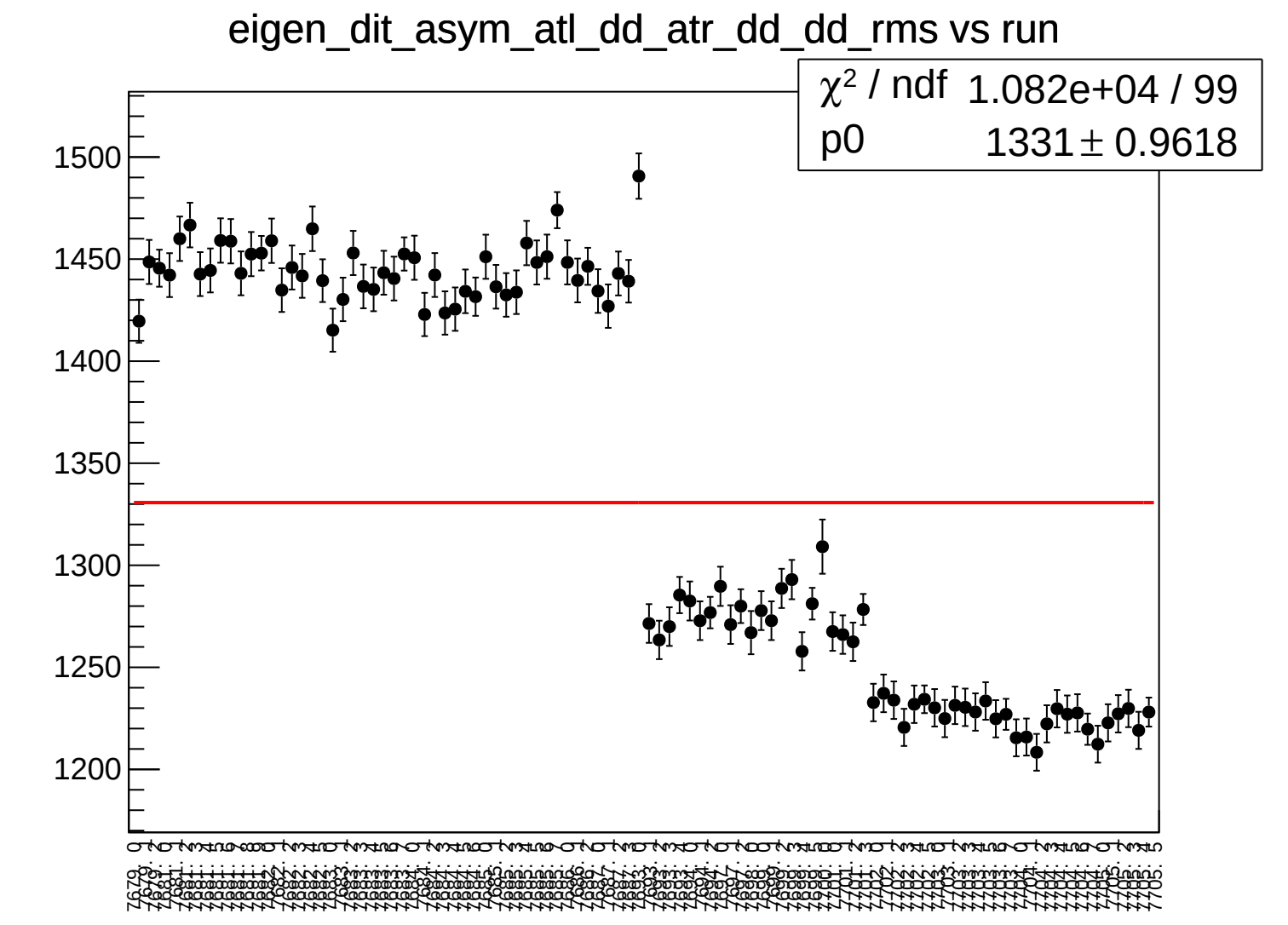

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 85.7 / 99
p0 −371.8 ± 1961
pull
Entries 100
Mean −149.7
Std Dev 0

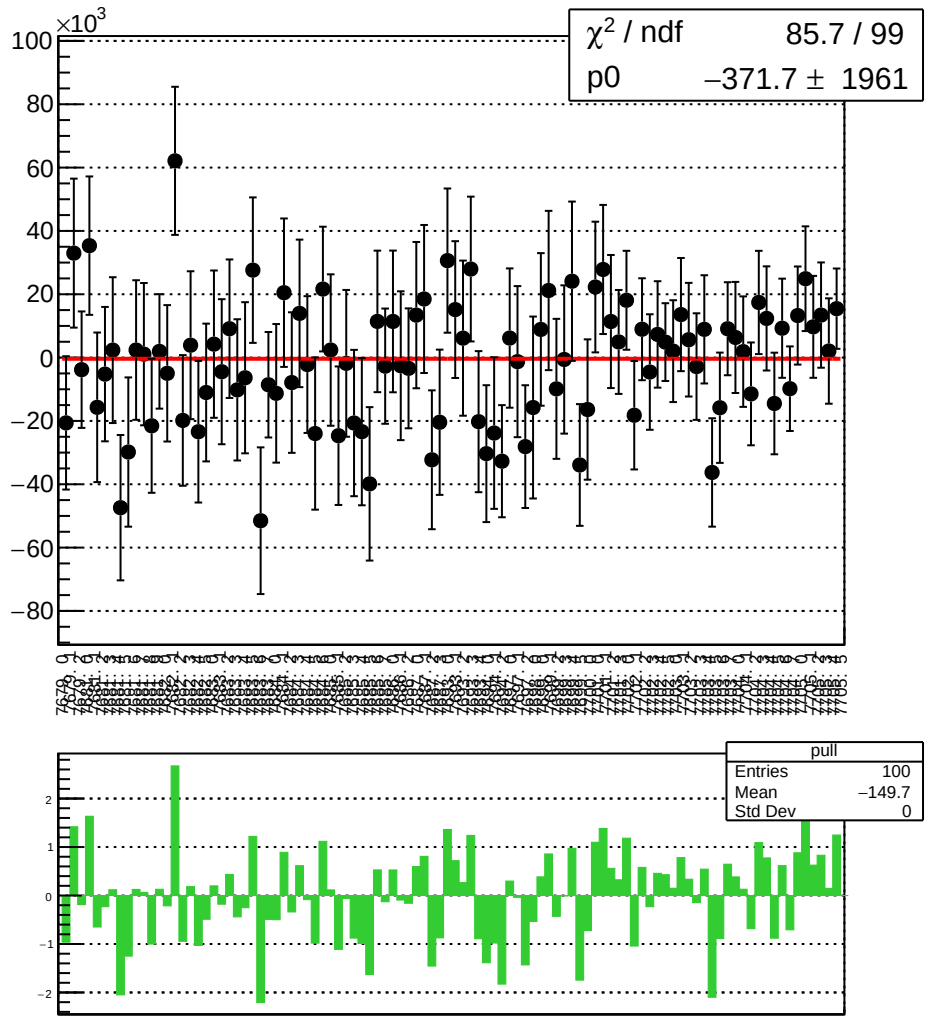

pull1D
Entries 100
Mean −0.02312
Std Dev 0.9255

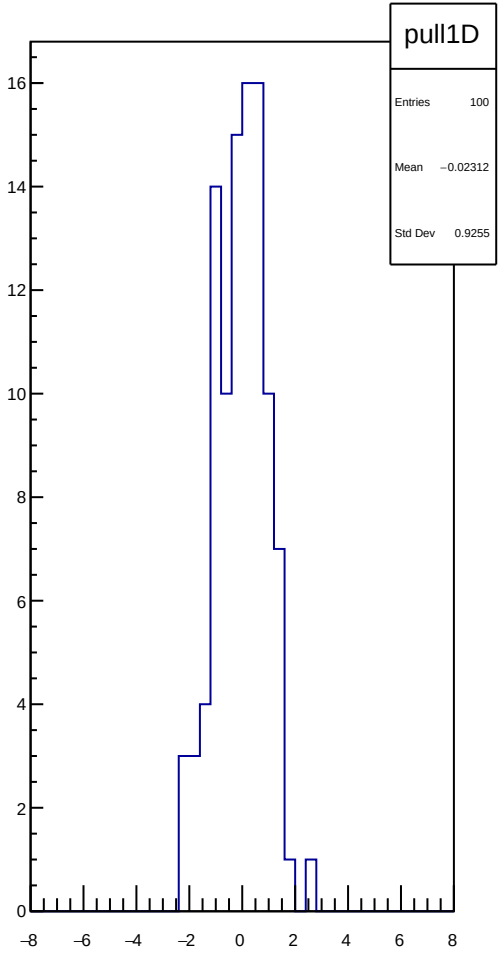

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 4.497e+04 / 99
p0 1901 ± 1.386
2400
2200
2000
1800
1600
1400

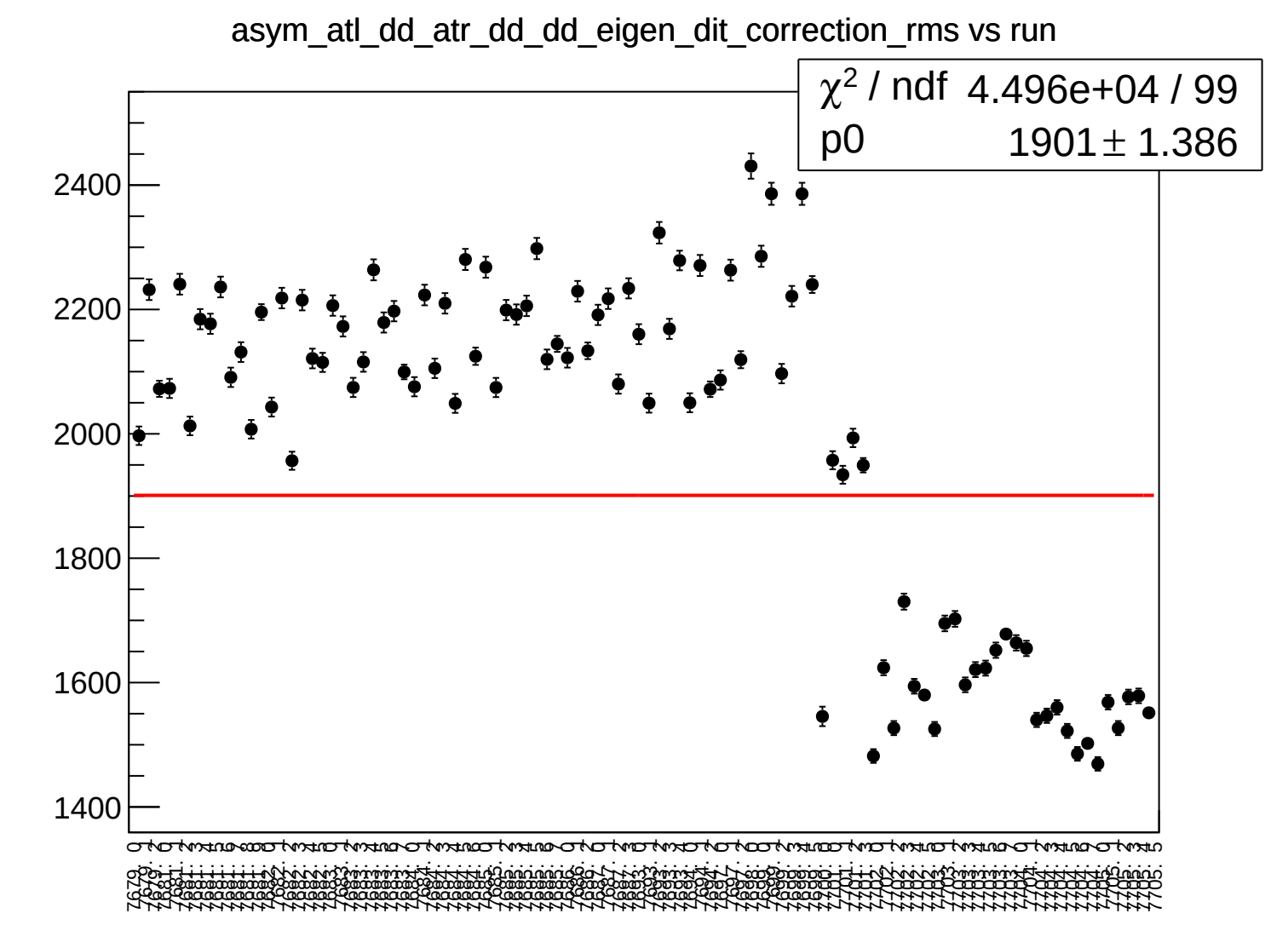

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 110.6 / 99
p0 −1014 ± 1360
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −148.1
Std Dev 0
2
1
0
−1
−2
−3

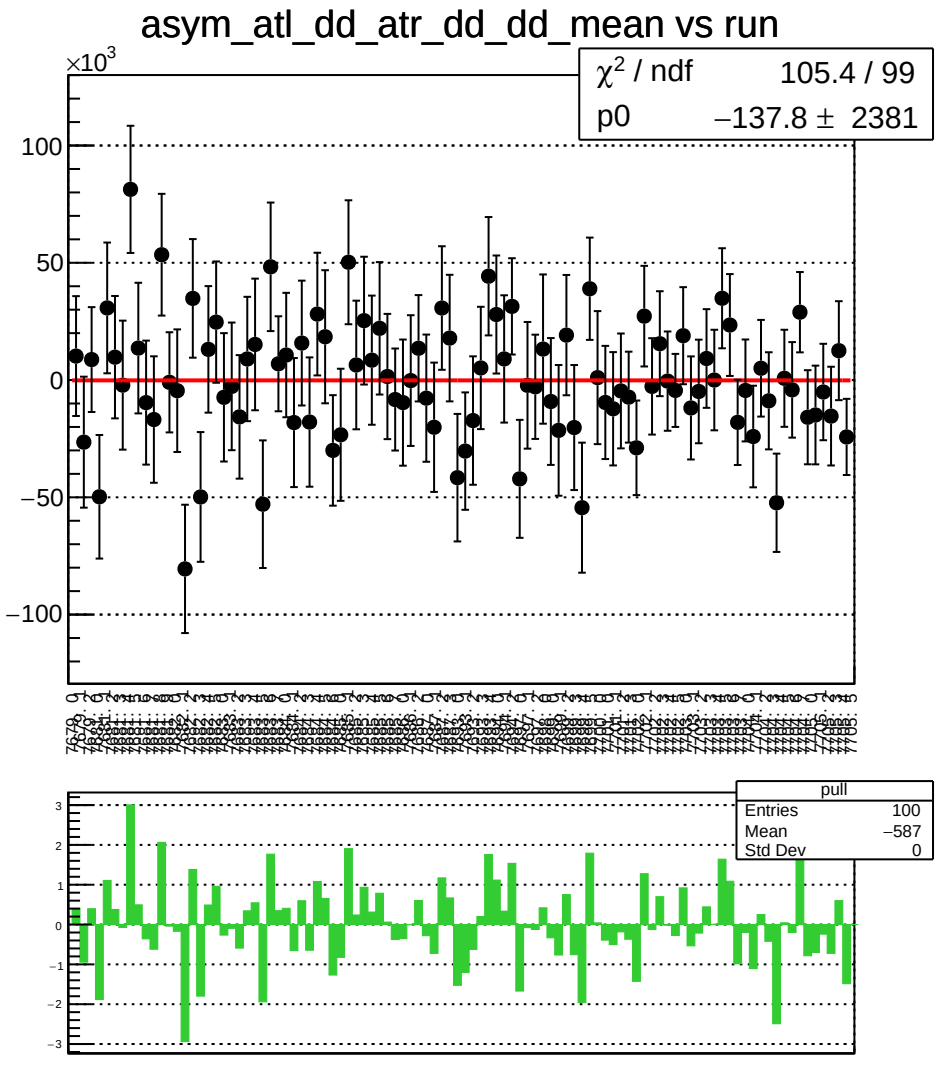

pull1D
Entries 100
Mean −0.004553
Std Dev 1.052
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

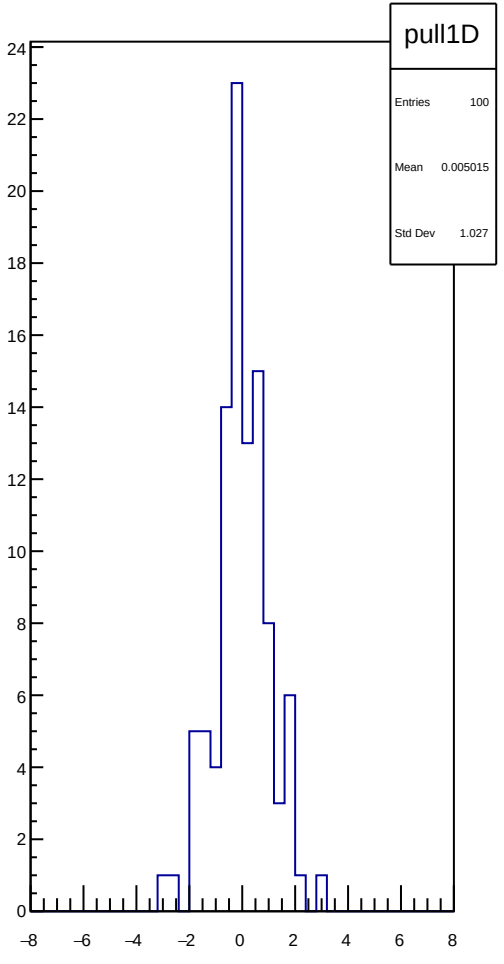

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1.082e+04 / 99
p0 1331 ± 0.9618
1500
1450
1400
1350
1300
1250
1200

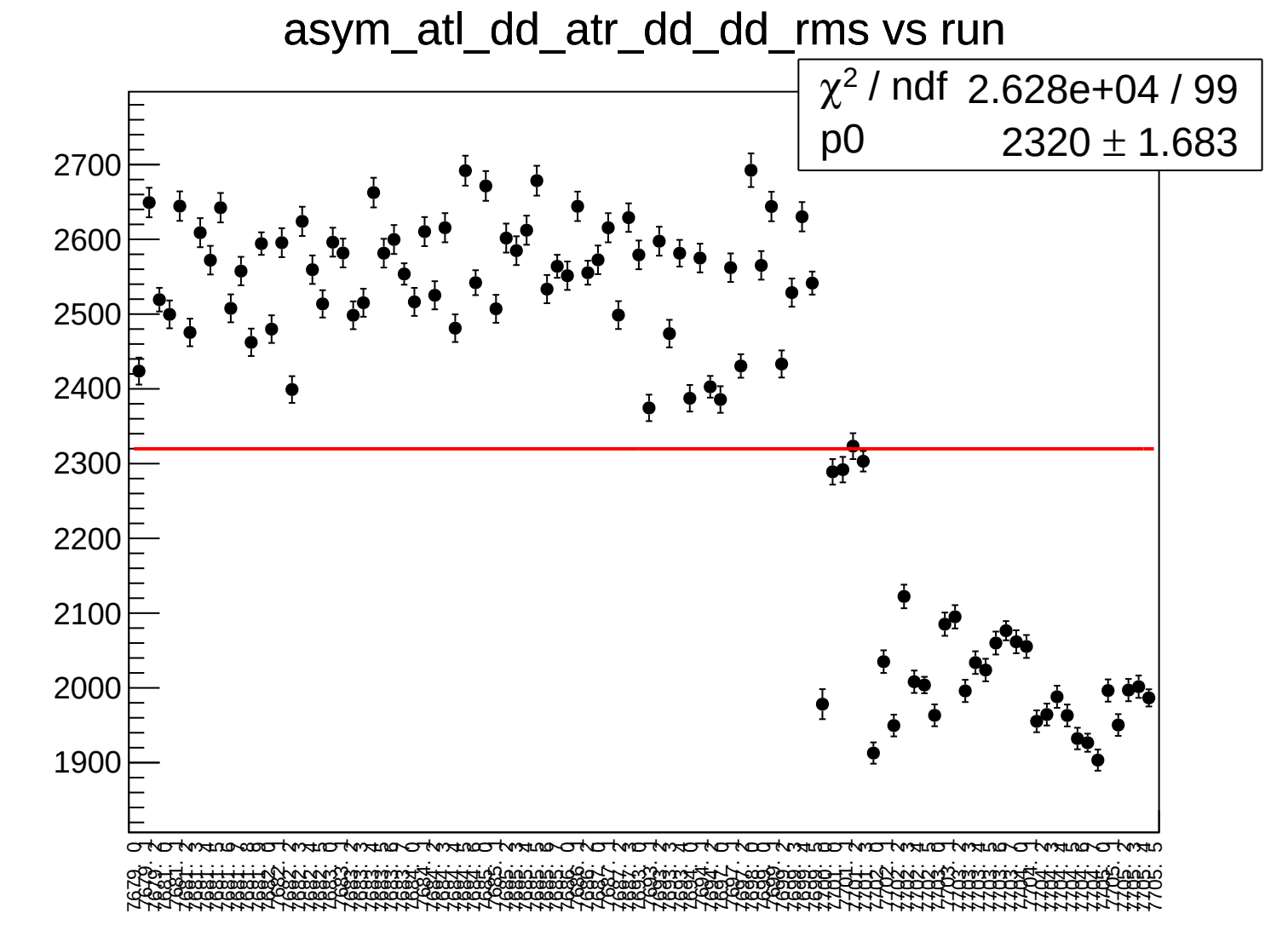

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.7 / 99
p0 −371.7 ± 1961
pull
Entries 100
Mean −149.7
Std Dev 0

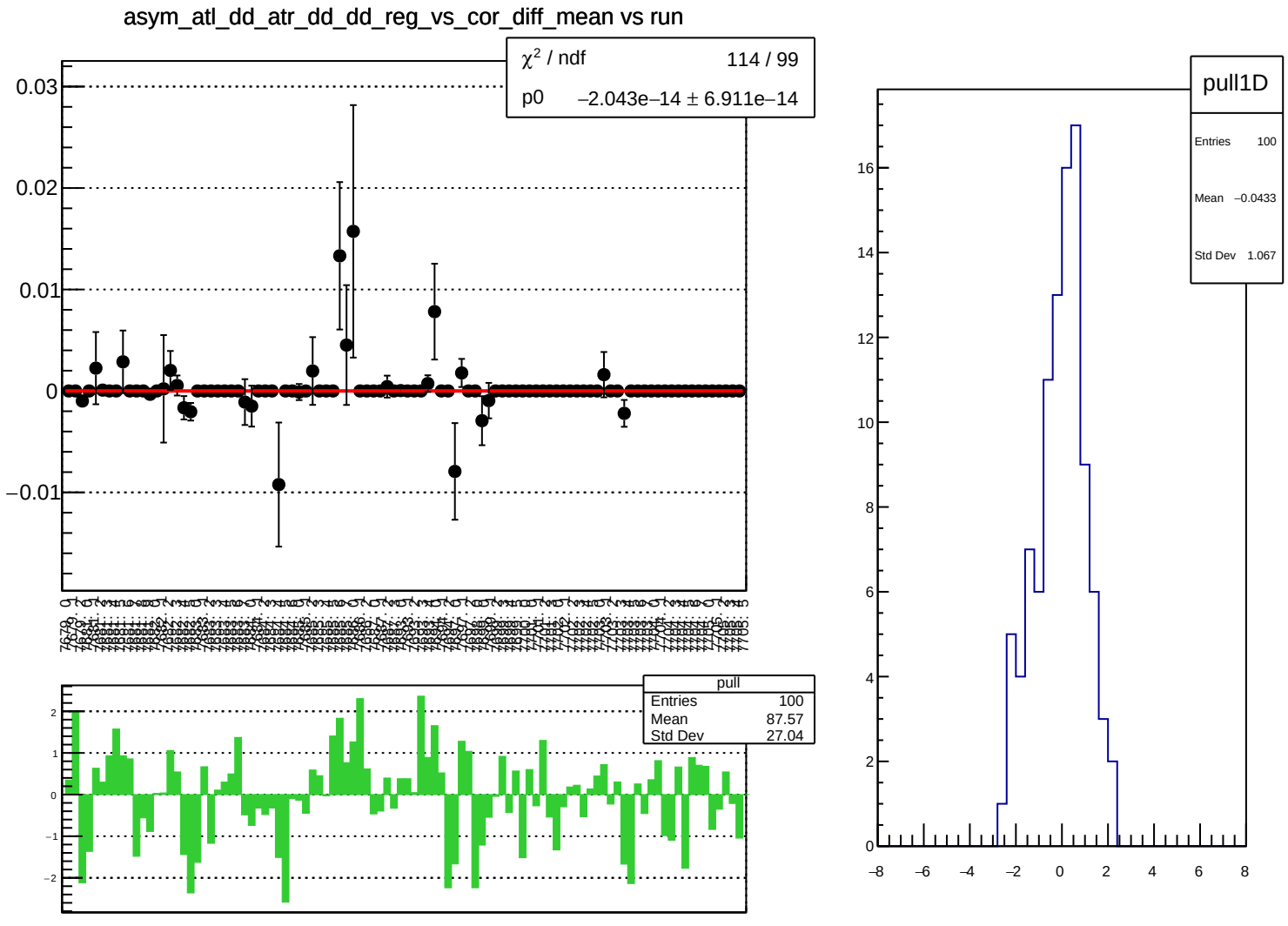

pull1D
Entries 100
Mean −0.02312
Std Dev 0.9255

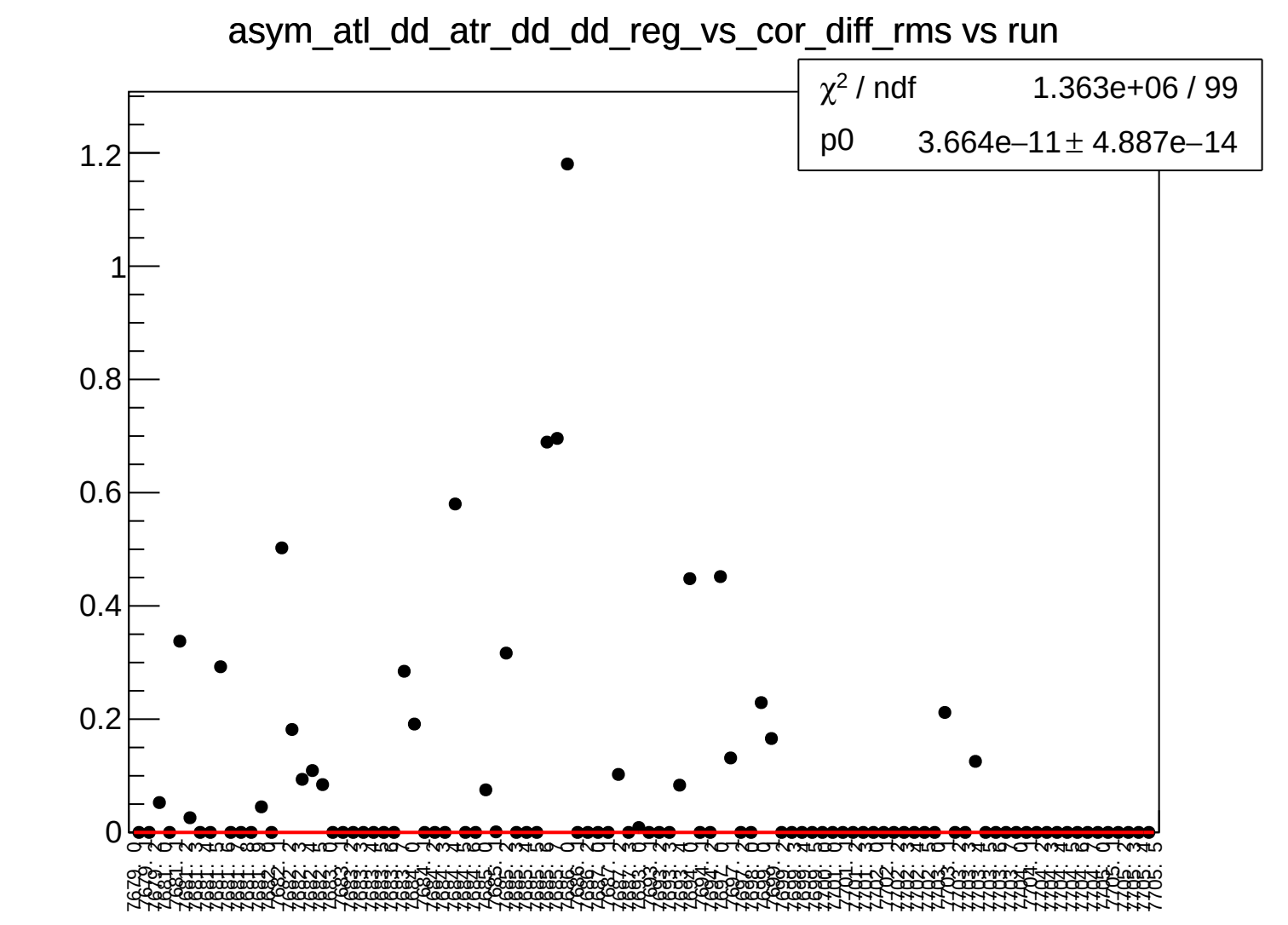

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 4.496e+04 / 99
p0 1901 ± 1.386
2400
2200
2000
1800
1600
1400

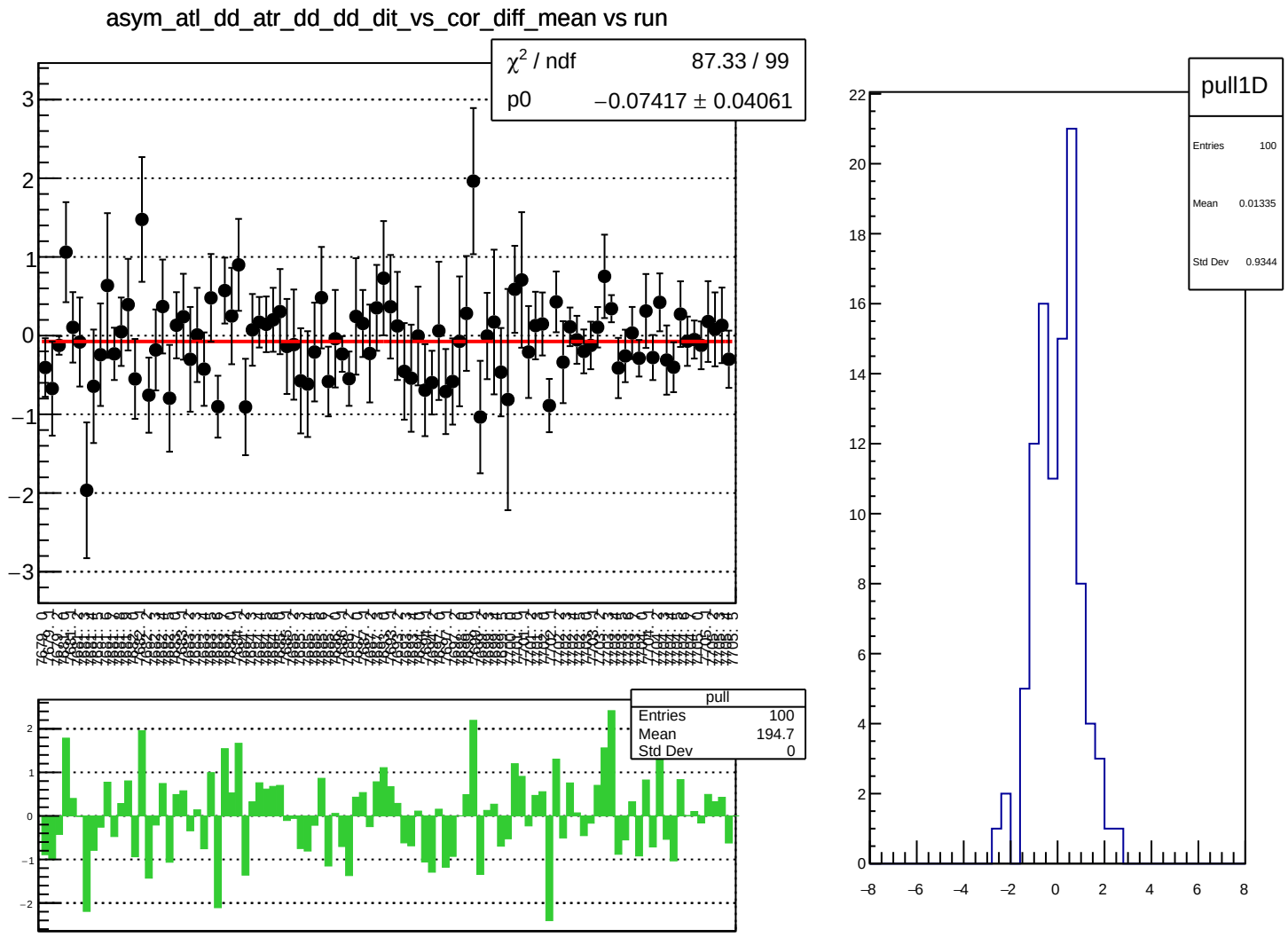

asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 105.4 / 99
p0 −137.8 ± 2381
100
50
0
−50
−100
pull
Entries 100
Mean −587
Std Dev 0
3
2
1
0
−1
−2
−3

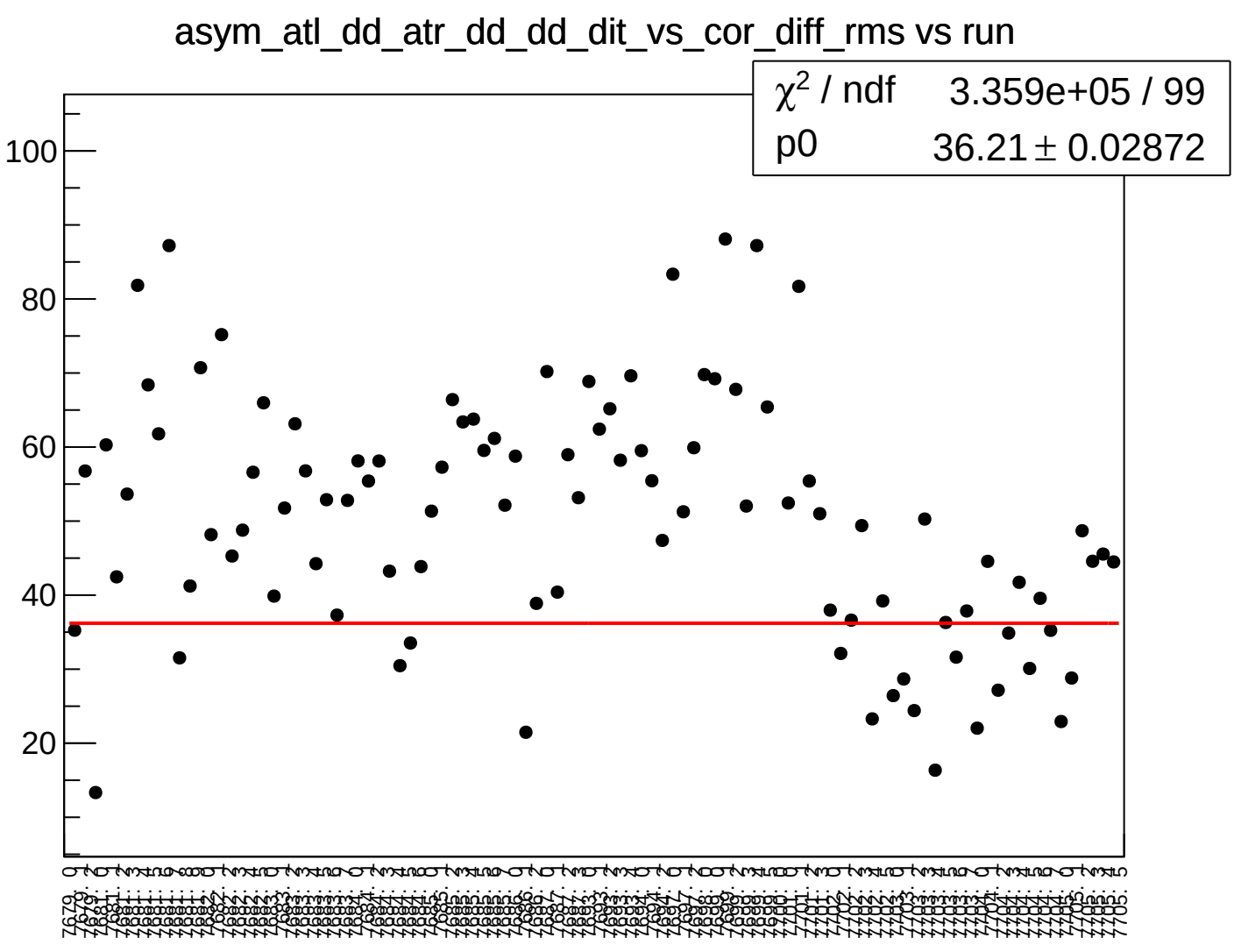

pull1D
Entries 100
Mean 0.005015
Std Dev 1.027
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

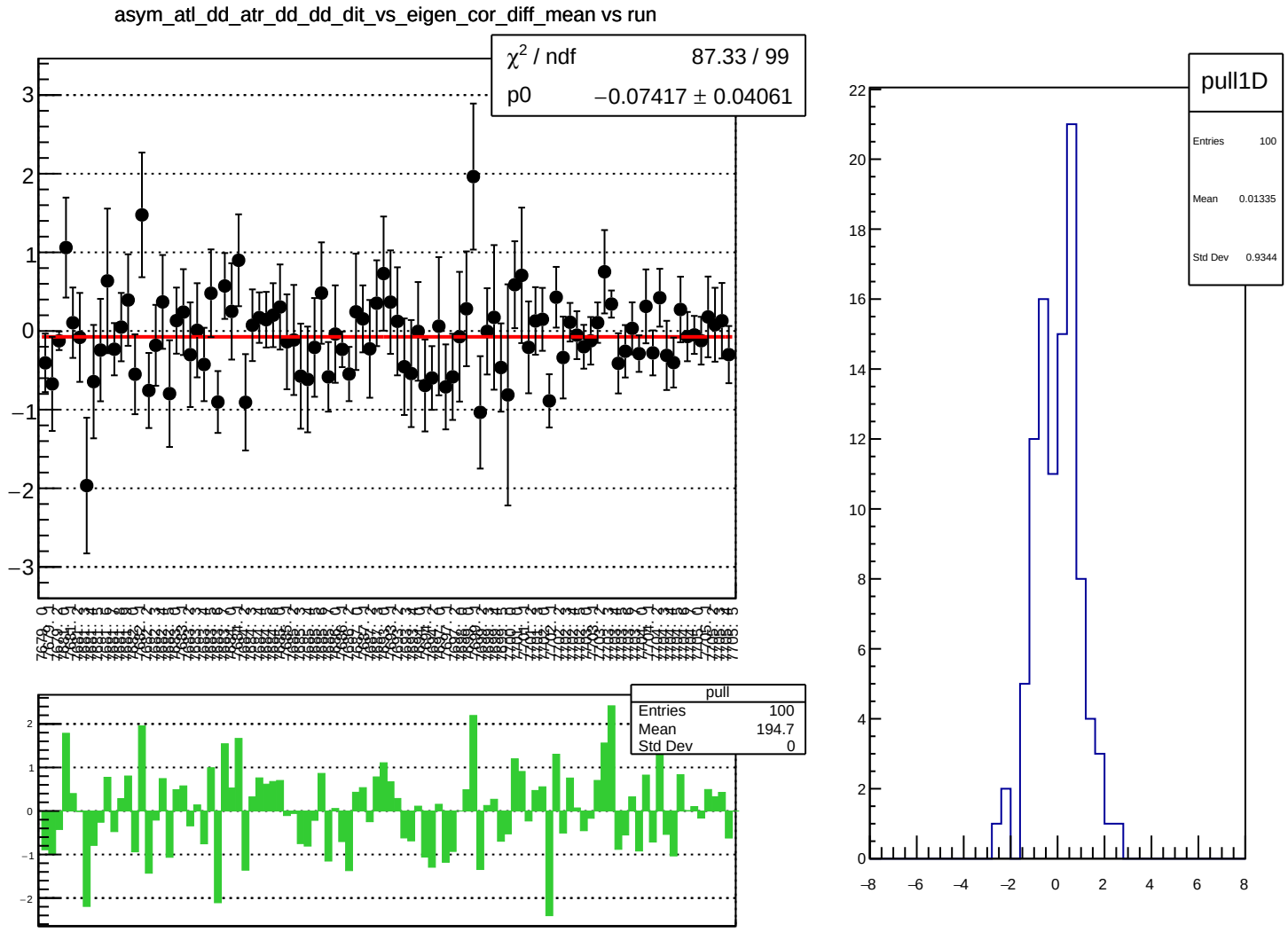

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 2.628e+04 / 99
p0 2320 ± 1.683
2700
2600
2500
2400
2300
2200
2100
2000
1900

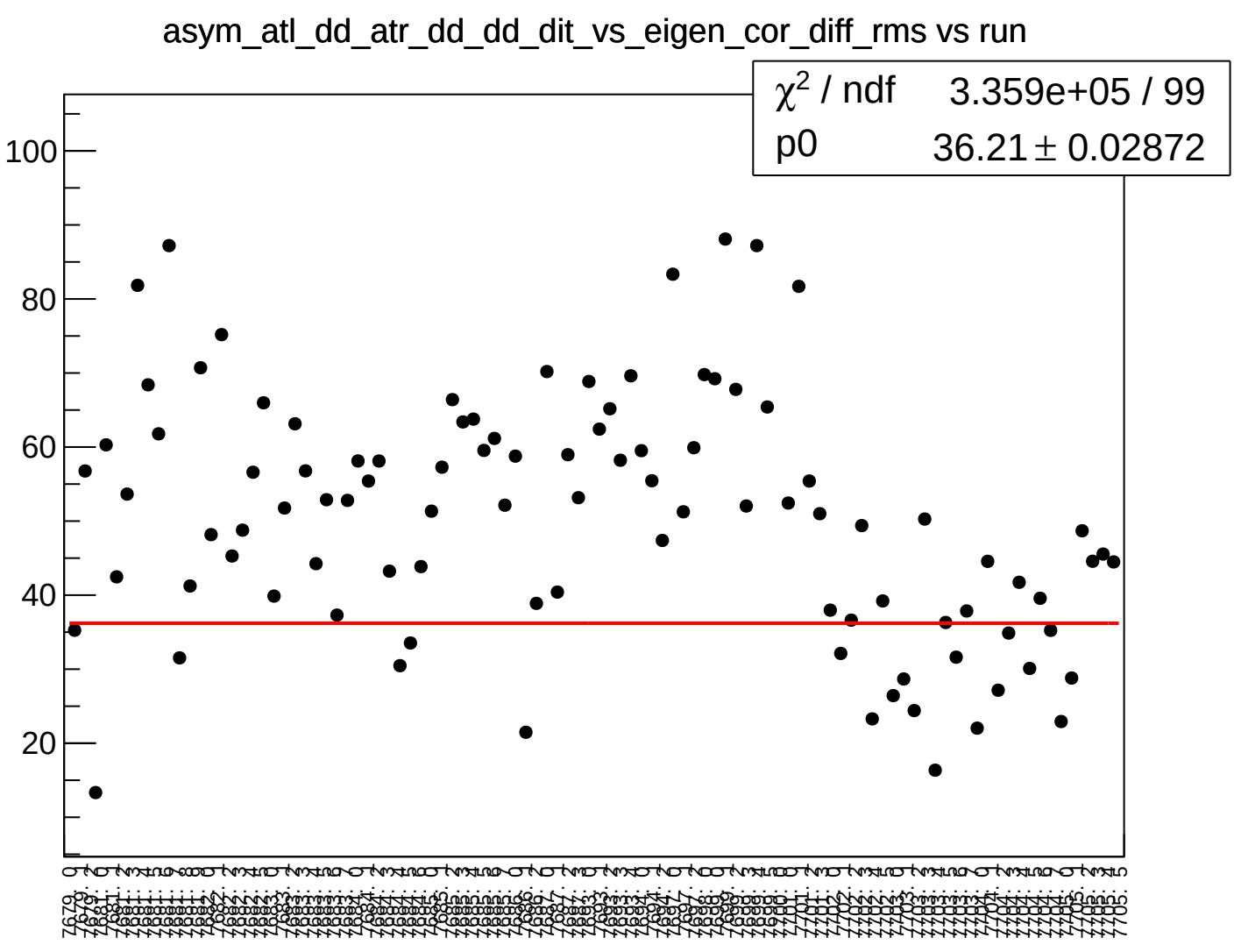

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 114 / 99
p0 −2.043e−14 ± 6.911e−14
0.03
0.02
0.01
0
−0.01
pull
Entries 100
Mean 87.57
Std Dev 27.04
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.0433
Std Dev 1.067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

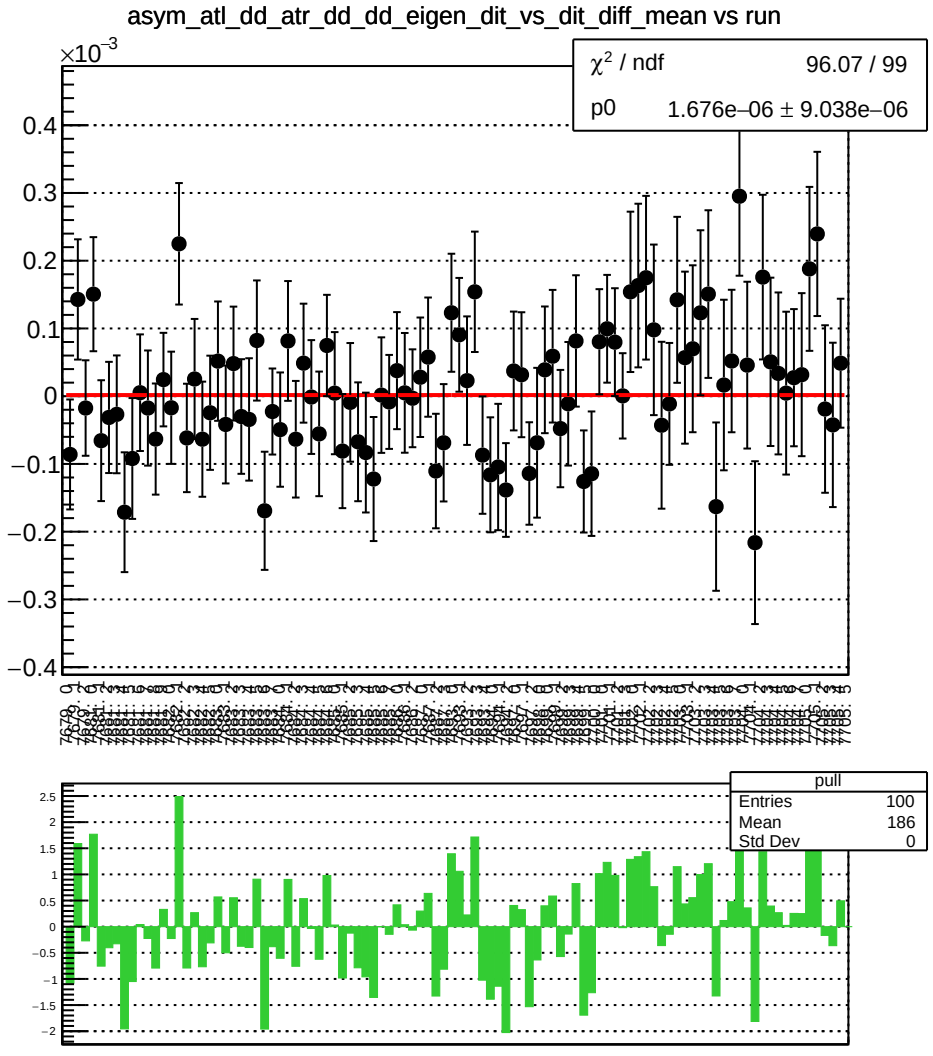

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.363e+06 / 99
p0 3.664e−11 ± 4.887e−14
1.2
1
0.8
0.6
0.4
0.2
0

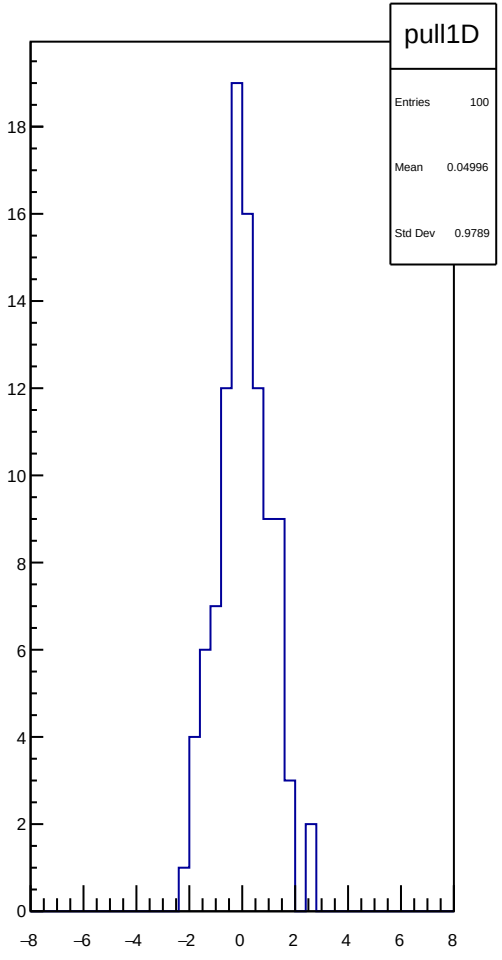

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.33 / 99
p0 −0.07417 ± 0.04061
pull
Entries 100
Mean 194.7
Std Dev 0
pull1D
Entries 100
Mean 0.01335
Std Dev 0.9344

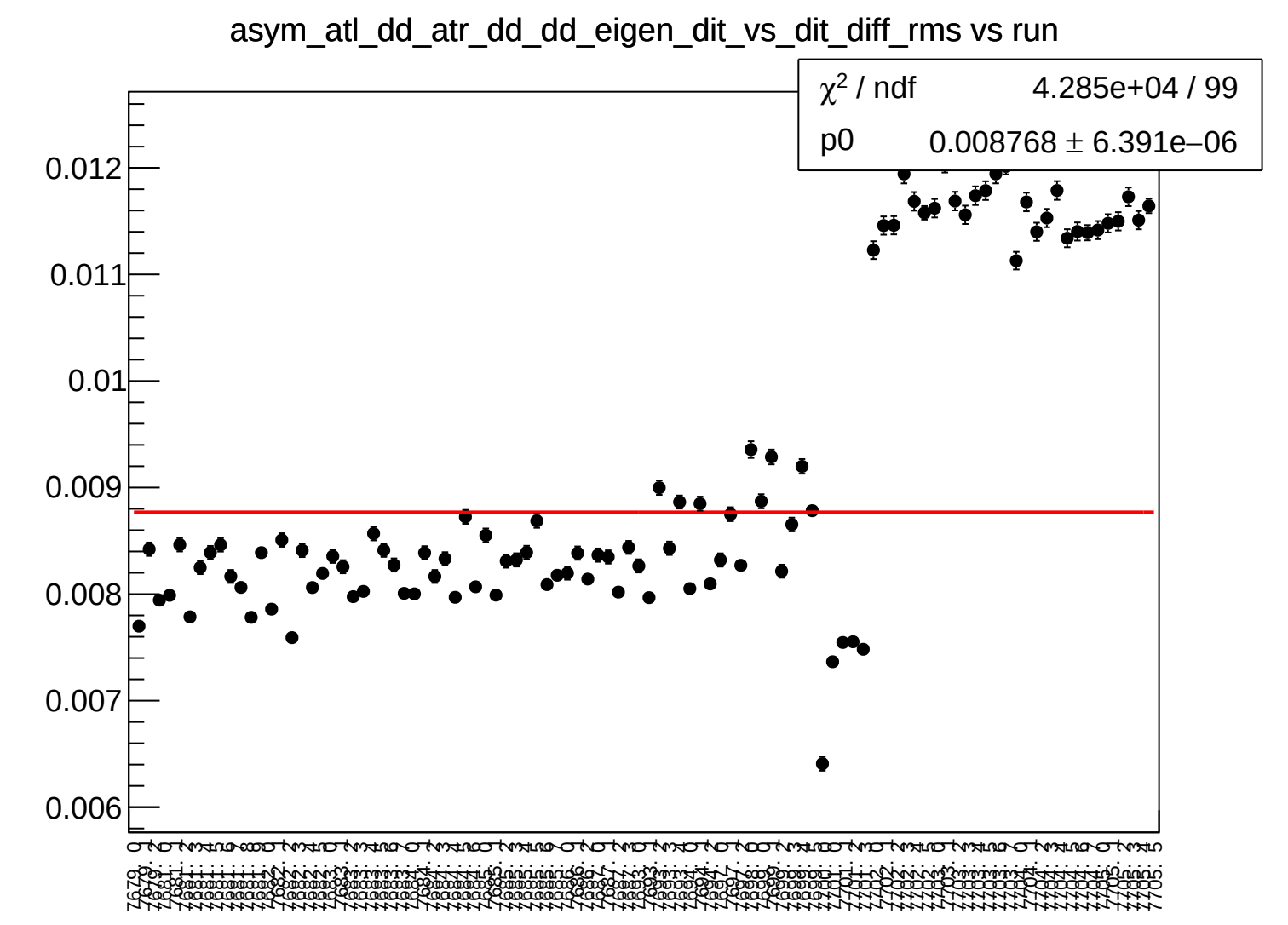

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.359e+05 / 99
p0 36.21 ± 0.02872
100
80
60
40
20

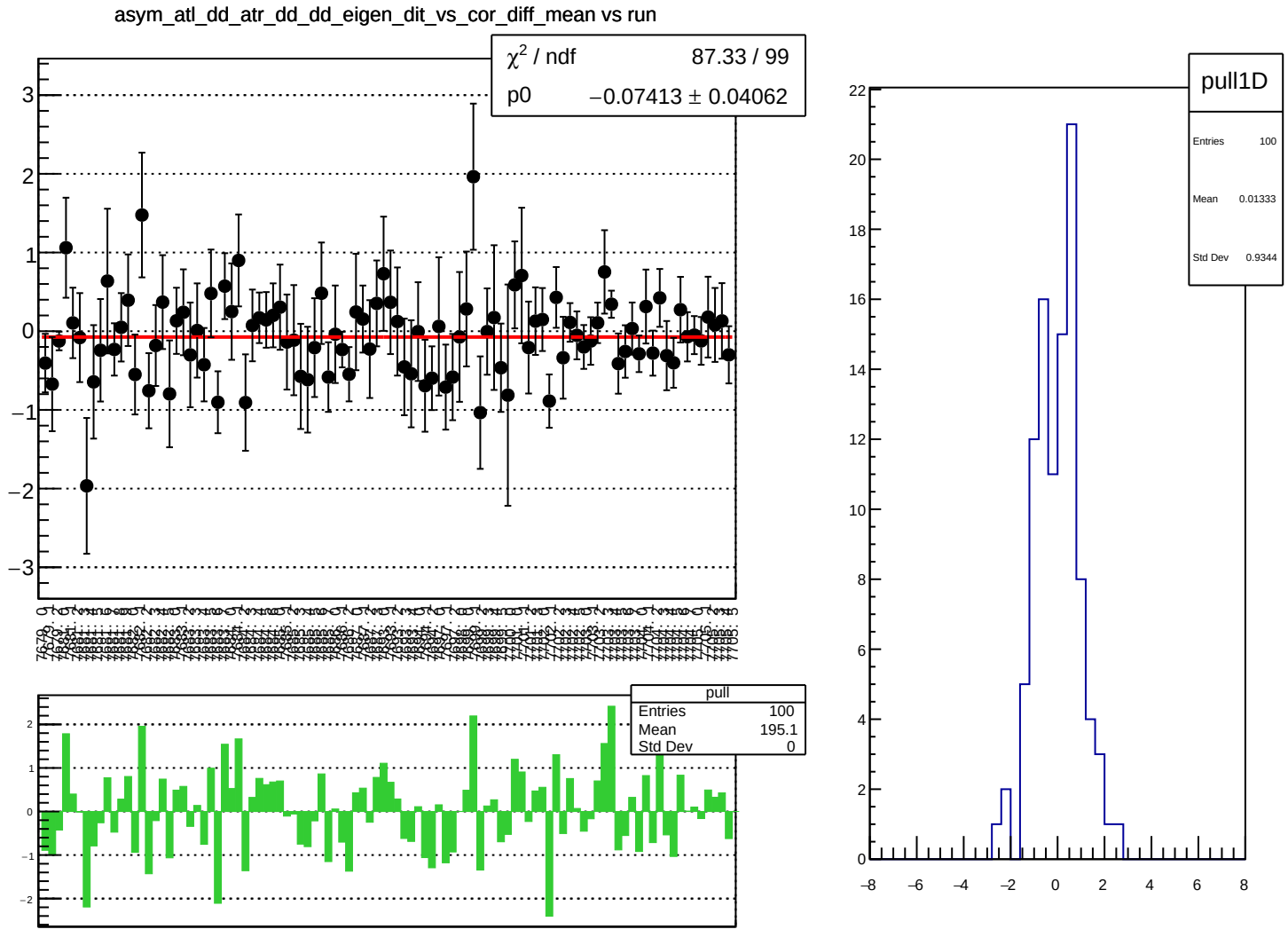

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.33 / 99
p0 −0.07417 ± 0.04061
pull
Entries 100
Mean 194.7
Std Dev 0
pull1D
Entries 100
Mean 0.01335
Std Dev 0.9344

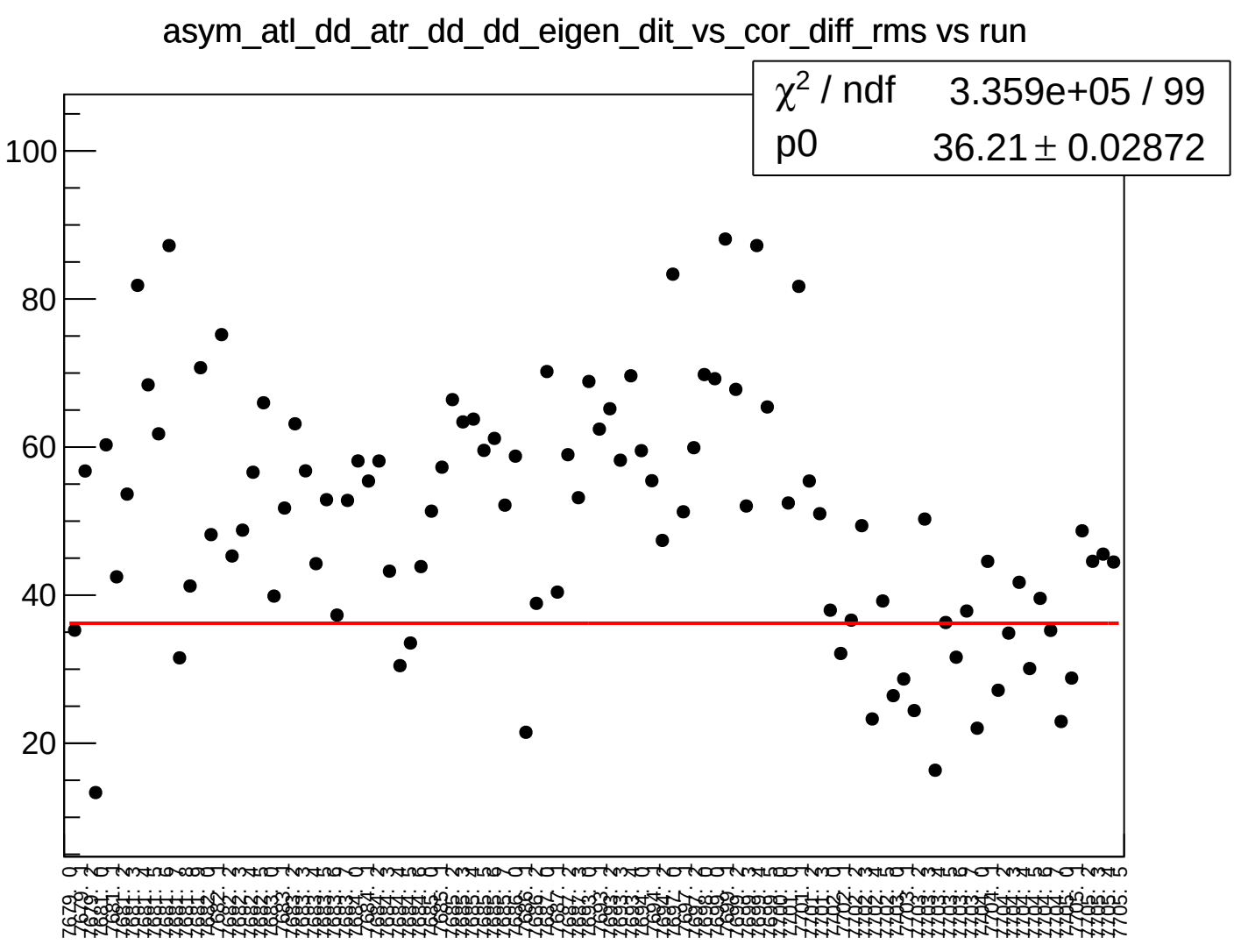

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.359e+05 / 99
p0 36.21 ± 0.02872
100
80
60
40
20

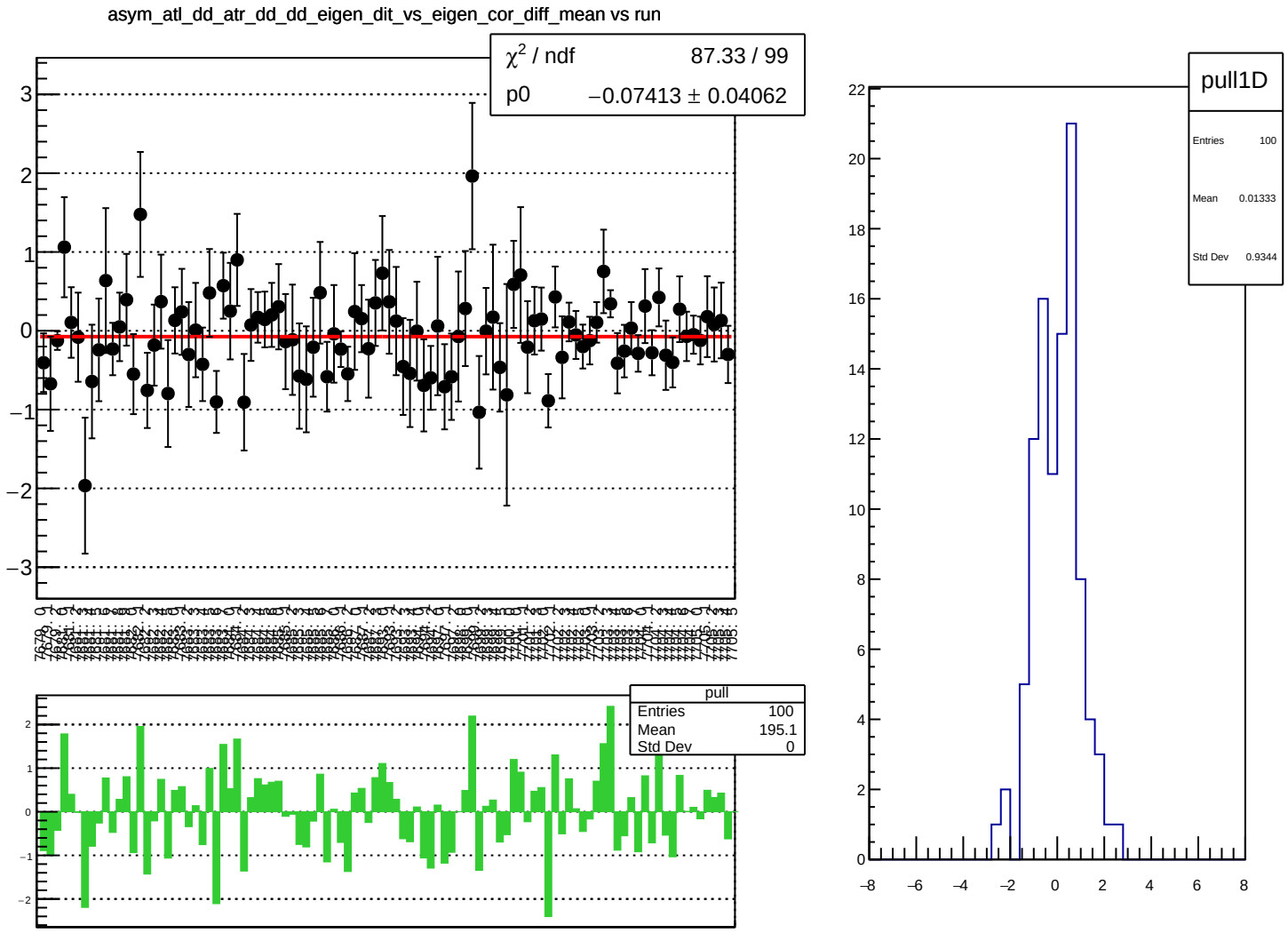

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.07 / 99
p0 1.676e−06 ± 9.038e−06
pull
Entries 100
Mean 186
Std Dev 0

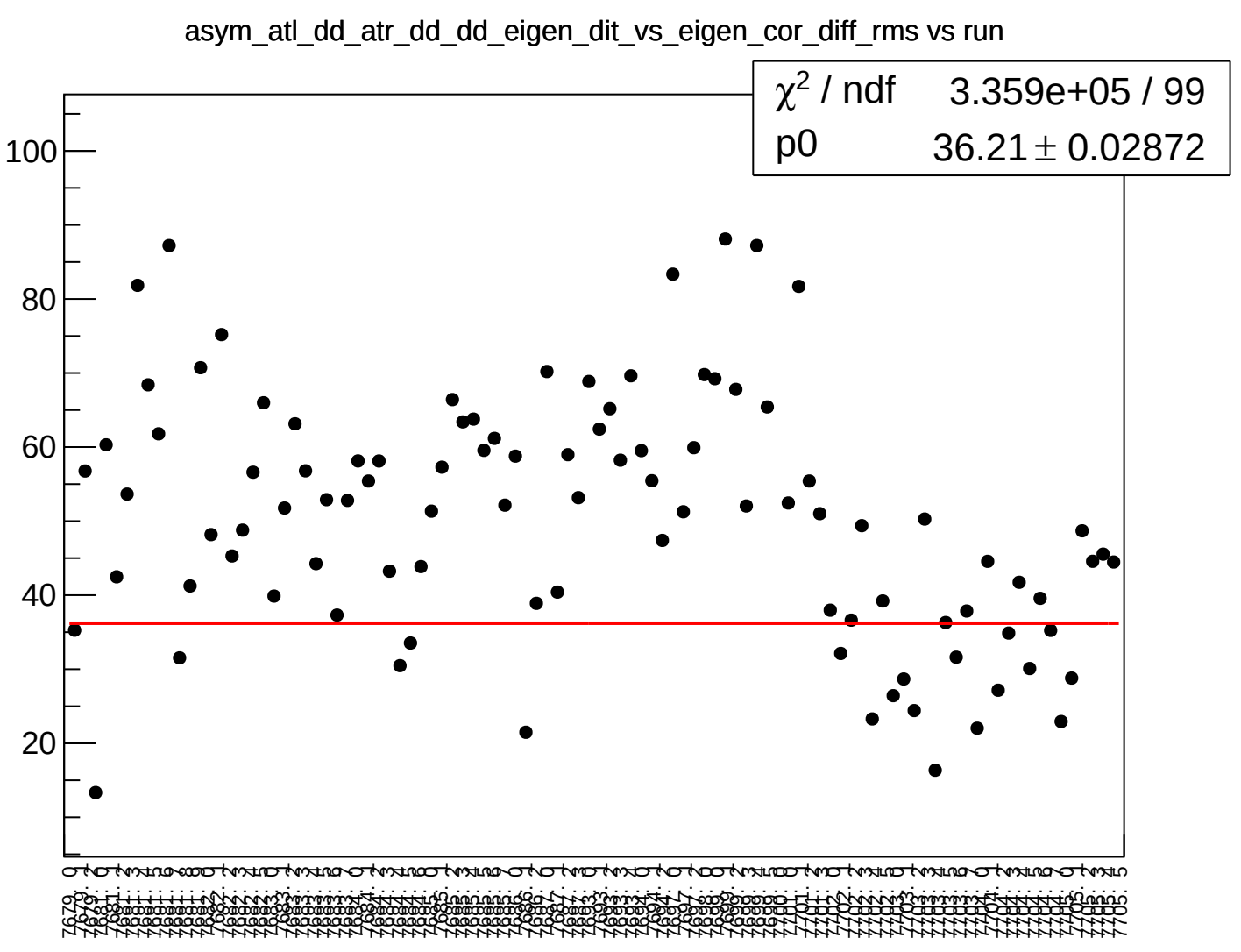

pull1D
Entries 100
Mean 0.04996
Std Dev 0.9789

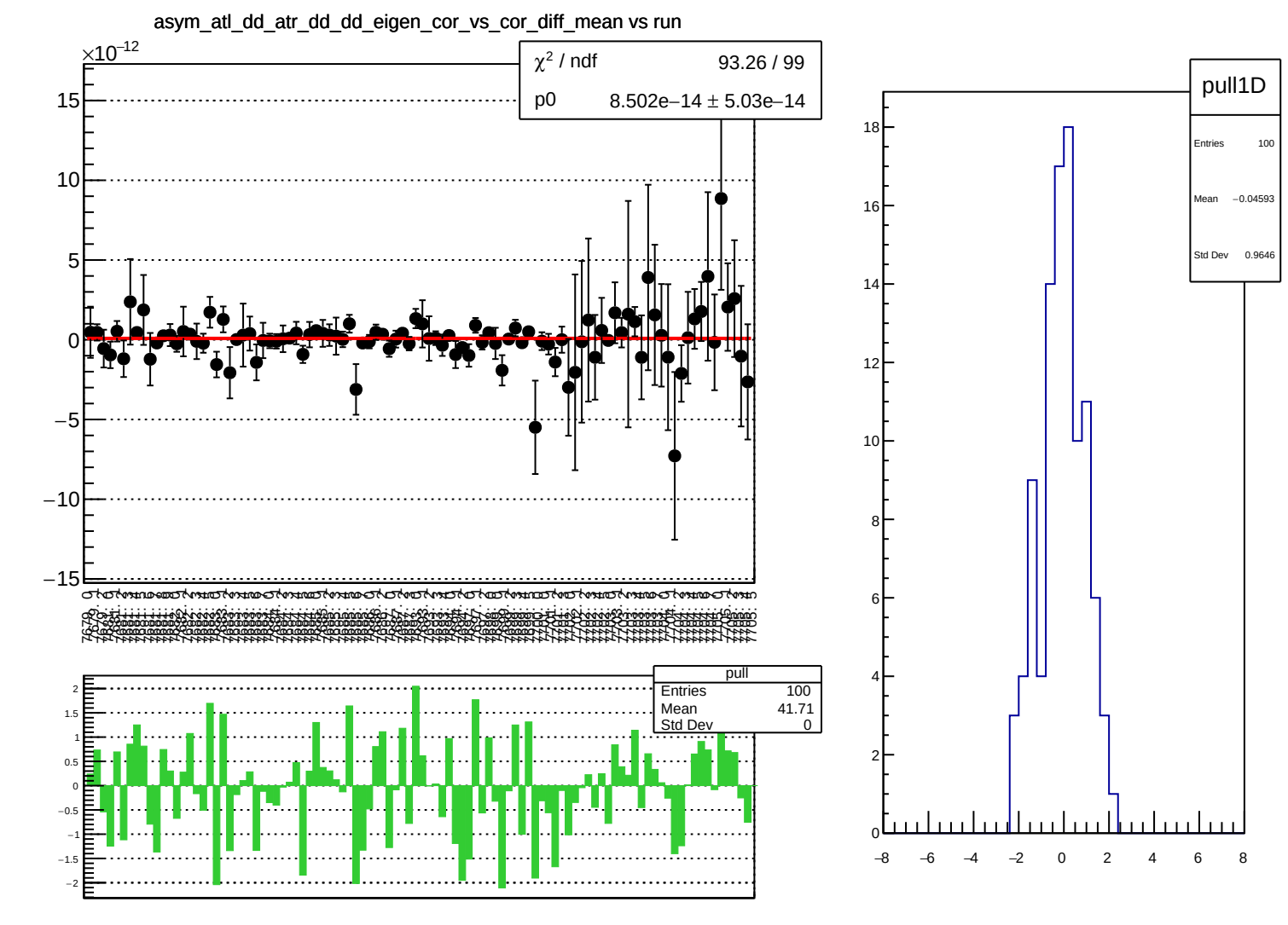

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.285e+04 / 99
p0 0.008768 ± 6.391e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006

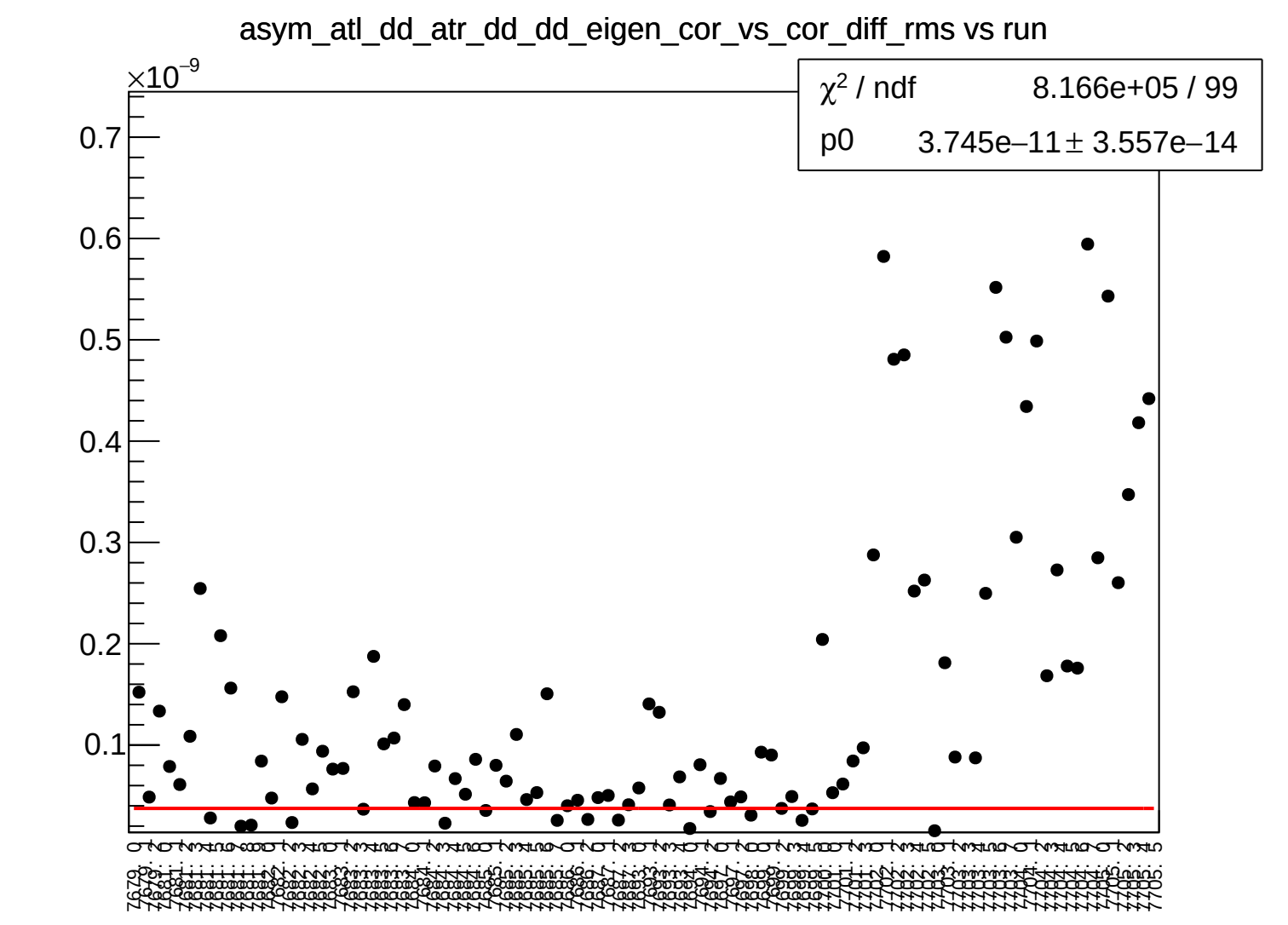

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.33 / 99
p0 −0.07413 ± 0.04062
pull
Entries 100
Mean 195.1
Std Dev 0
pull1D
Entries 100
Mean 0.01333
Std Dev 0.9344

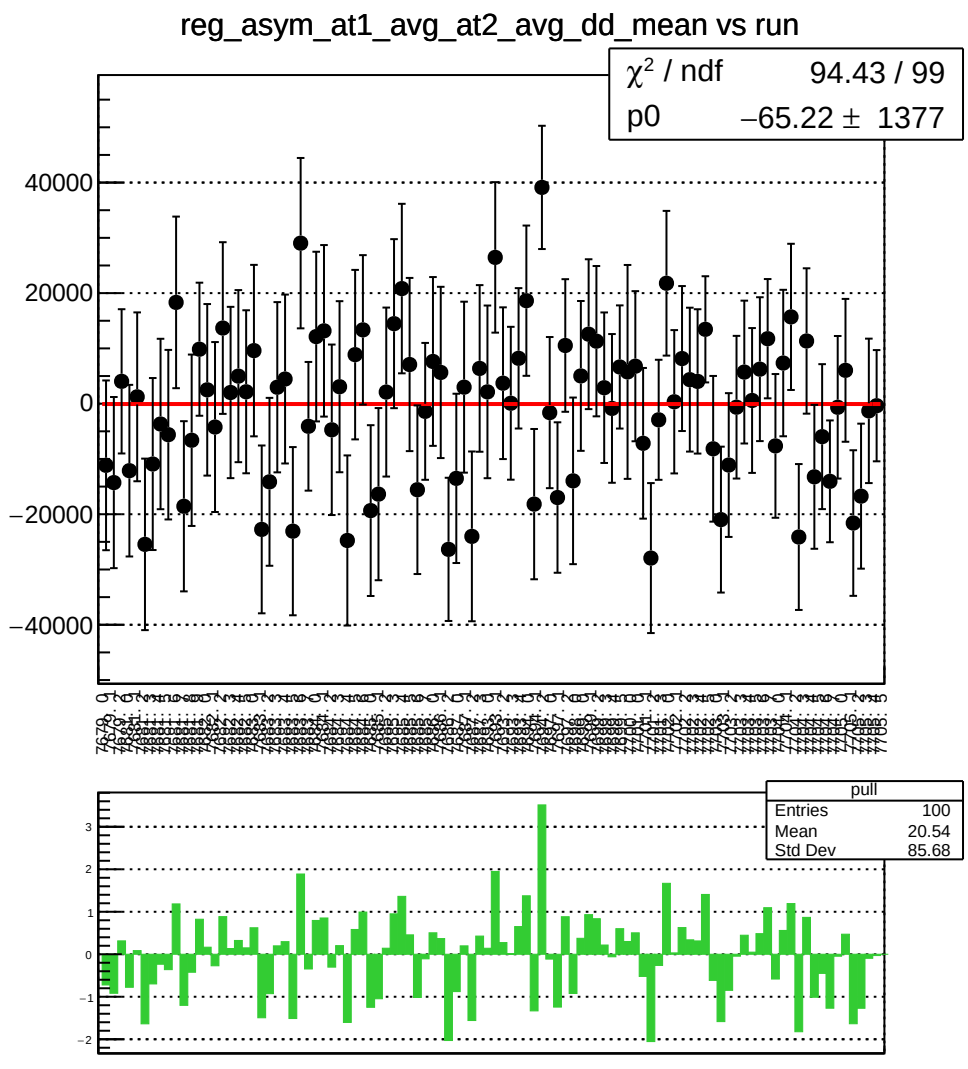

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.359e+05 / 99
p0 36.21 ± 0.02872
100
80
60
40
20

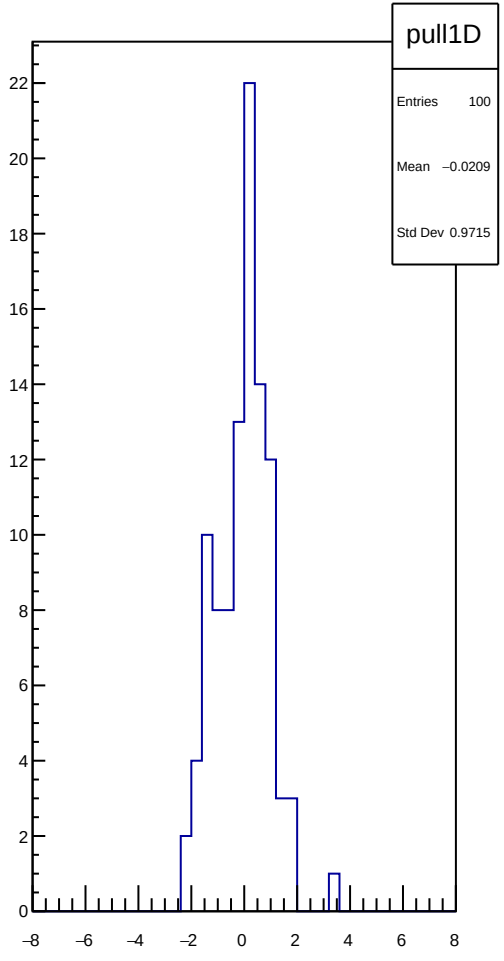

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.33 / 99
p0 −0.07413 ± 0.04062
pull
Entries 100
Mean 195.1
Std Dev 0
pull1D
Entries 100
Mean 0.01333
Std Dev 0.9344

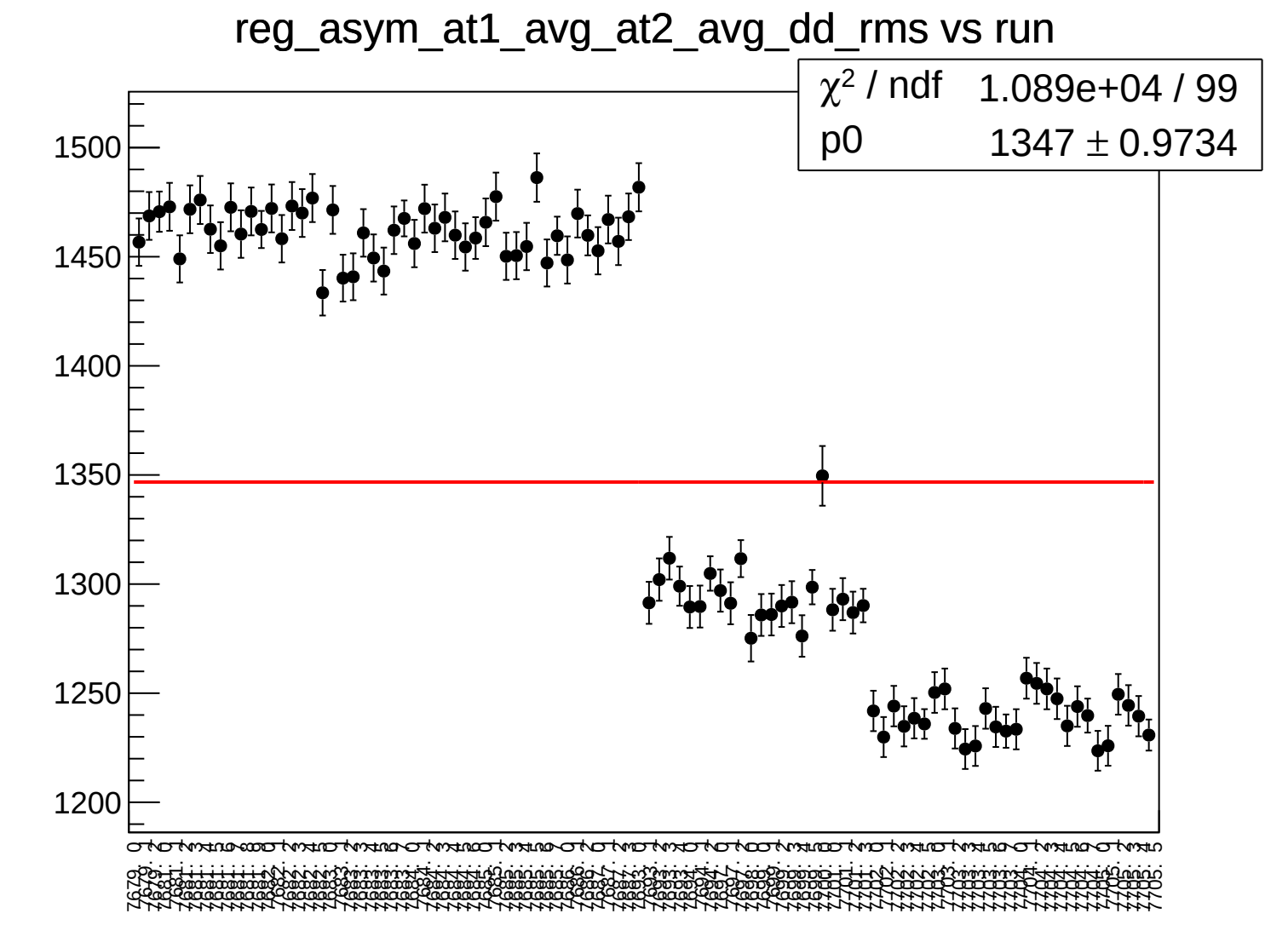

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.359e+05 / 99
p0 36.21 ± 0.02872
100
80
60
40
20

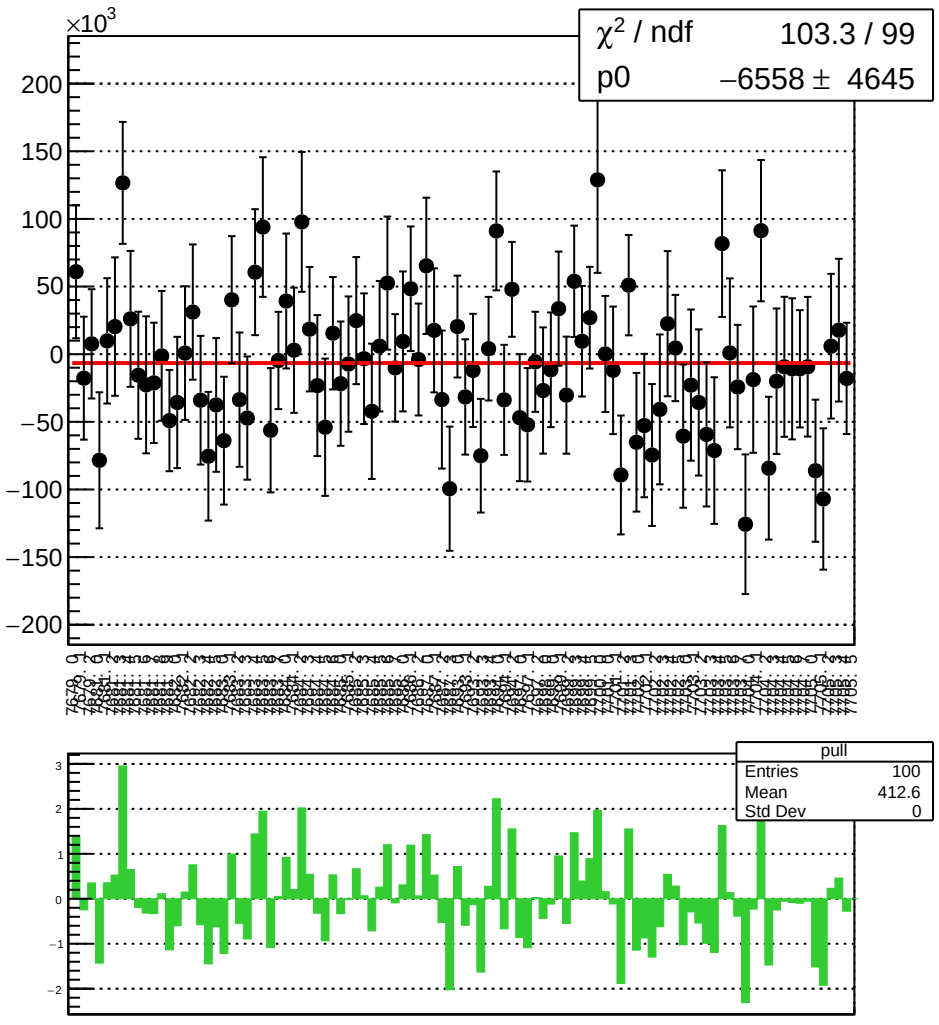

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 93.26 / 99
p0 8.502e−14 ± 5.03e−14
pull
Entries 100
Mean 41.71
Std Dev 0
pull1D
Entries 100
Mean −0.04593
Std Dev 0.9646

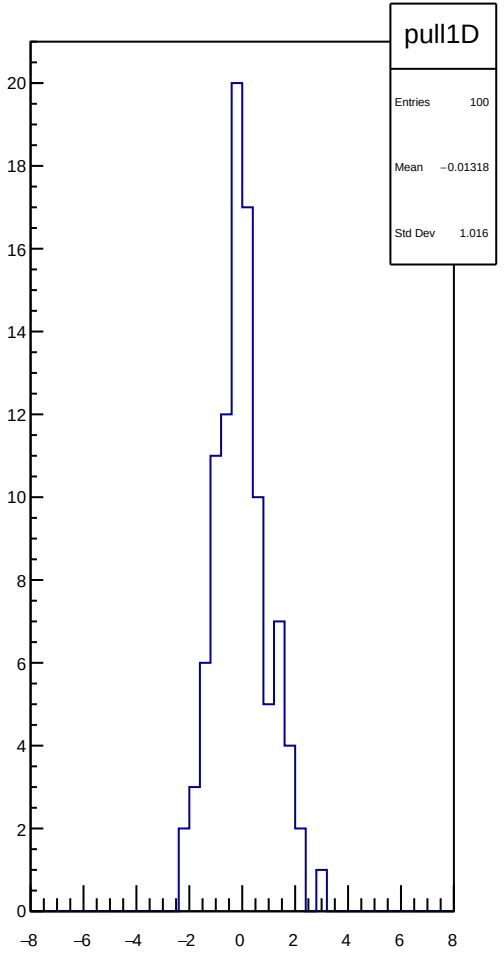

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.166e+05 / 99
p0 3.745e−11 ± 3.557e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

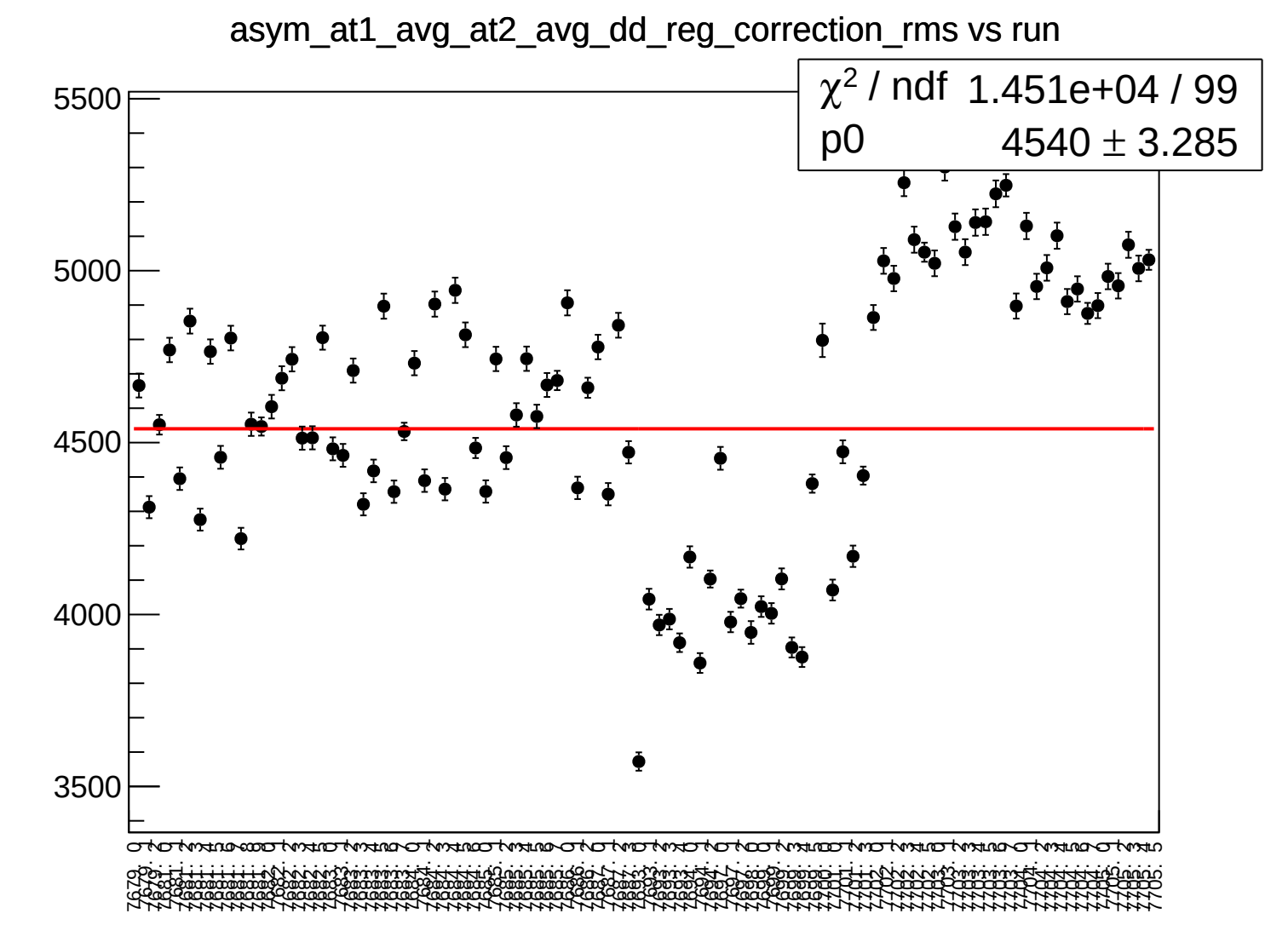

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 94.43 / 99
p0 −65.22 ± 1377
40000
20000
0
−20000
−40000
pull
Entries 100
Mean 20.54
Std Dev 85.68
3
2
1
0
−1
−2

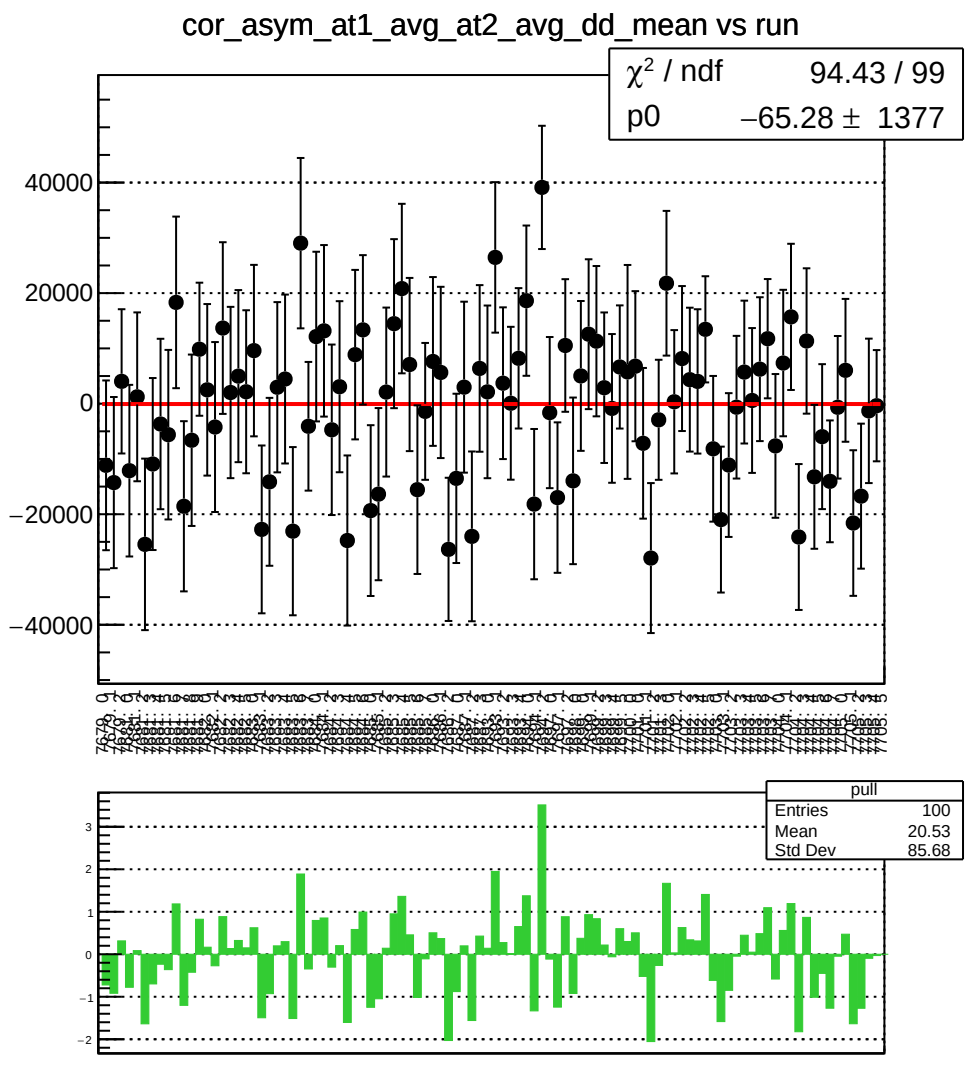

pull1D
Entries 100
Mean −0.0209
Std Dev 0.9715
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

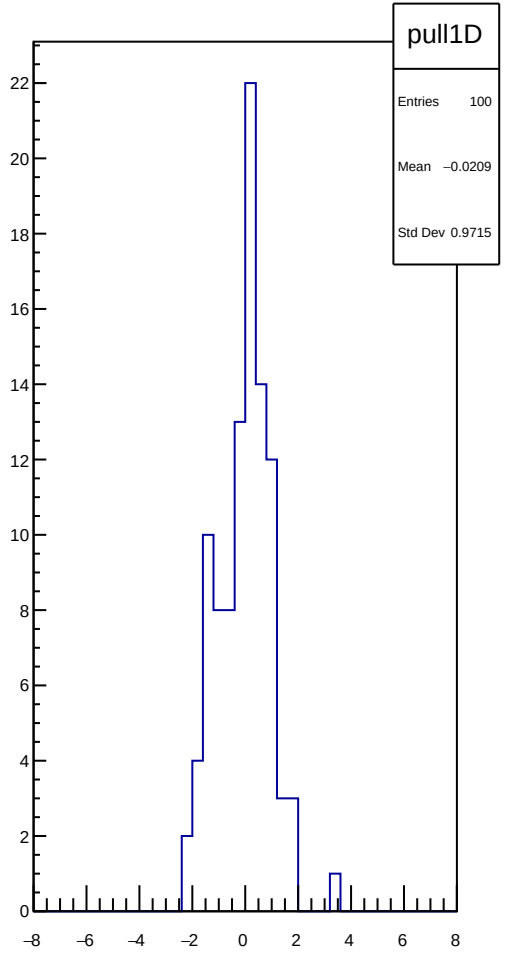

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 1.089e+04 / 99
p0 1347 ± 0.9734
1500
1450
1400
1350
1300
1250
1200

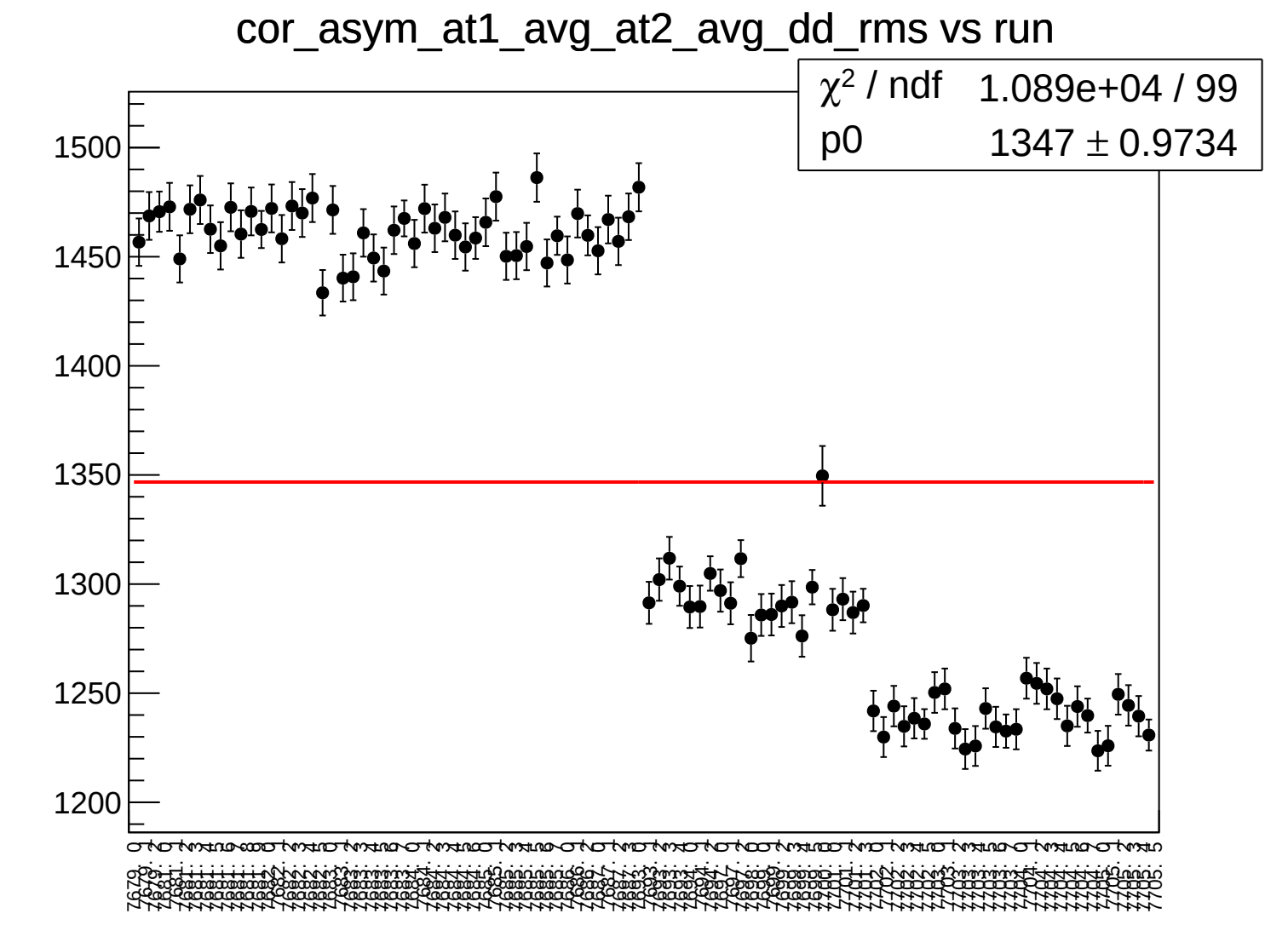

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 103.3 / 99
p0 −6558 ± 4645
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 100
Mean 412.6
Std Dev 0
3
2
1
0
−1
−2

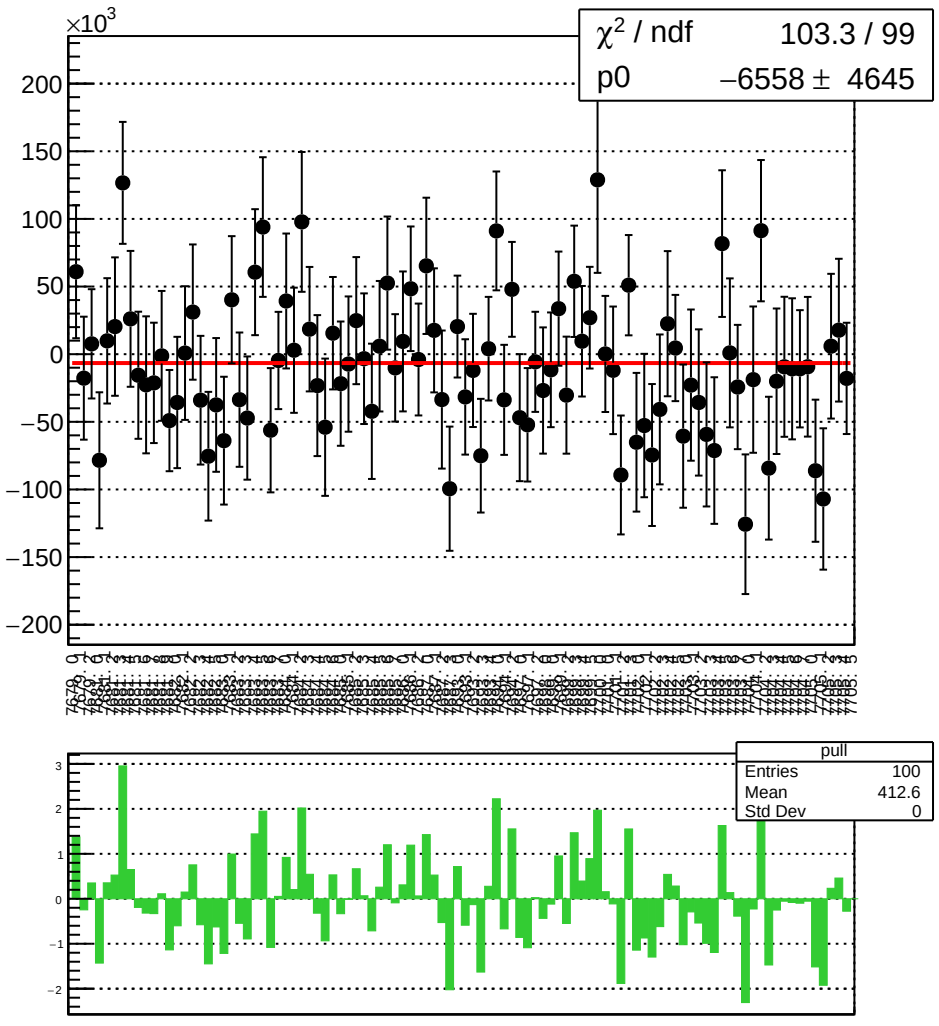

pull1D
Entries 100
Mean −0.01318
Std Dev 1.016
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

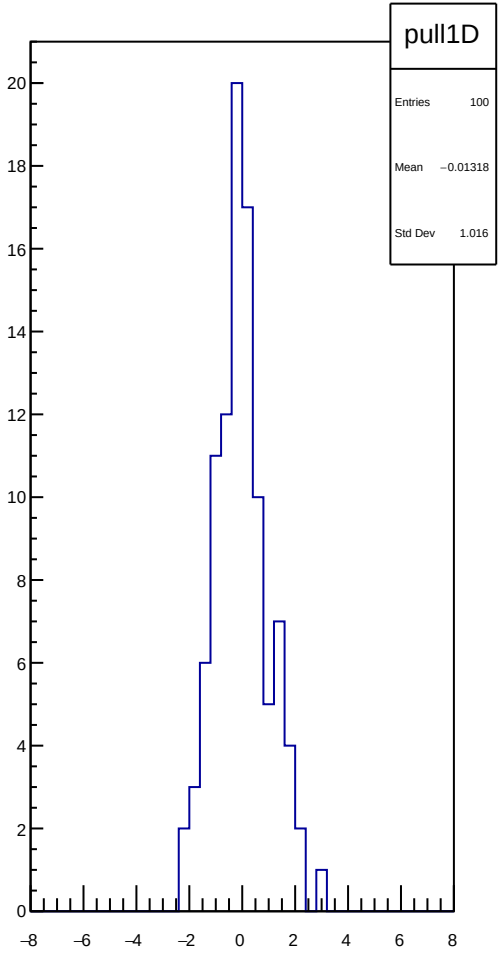

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 1.451e+04 / 99
p0 4540 ± 3.285
5500
5000
4500
4000
3500

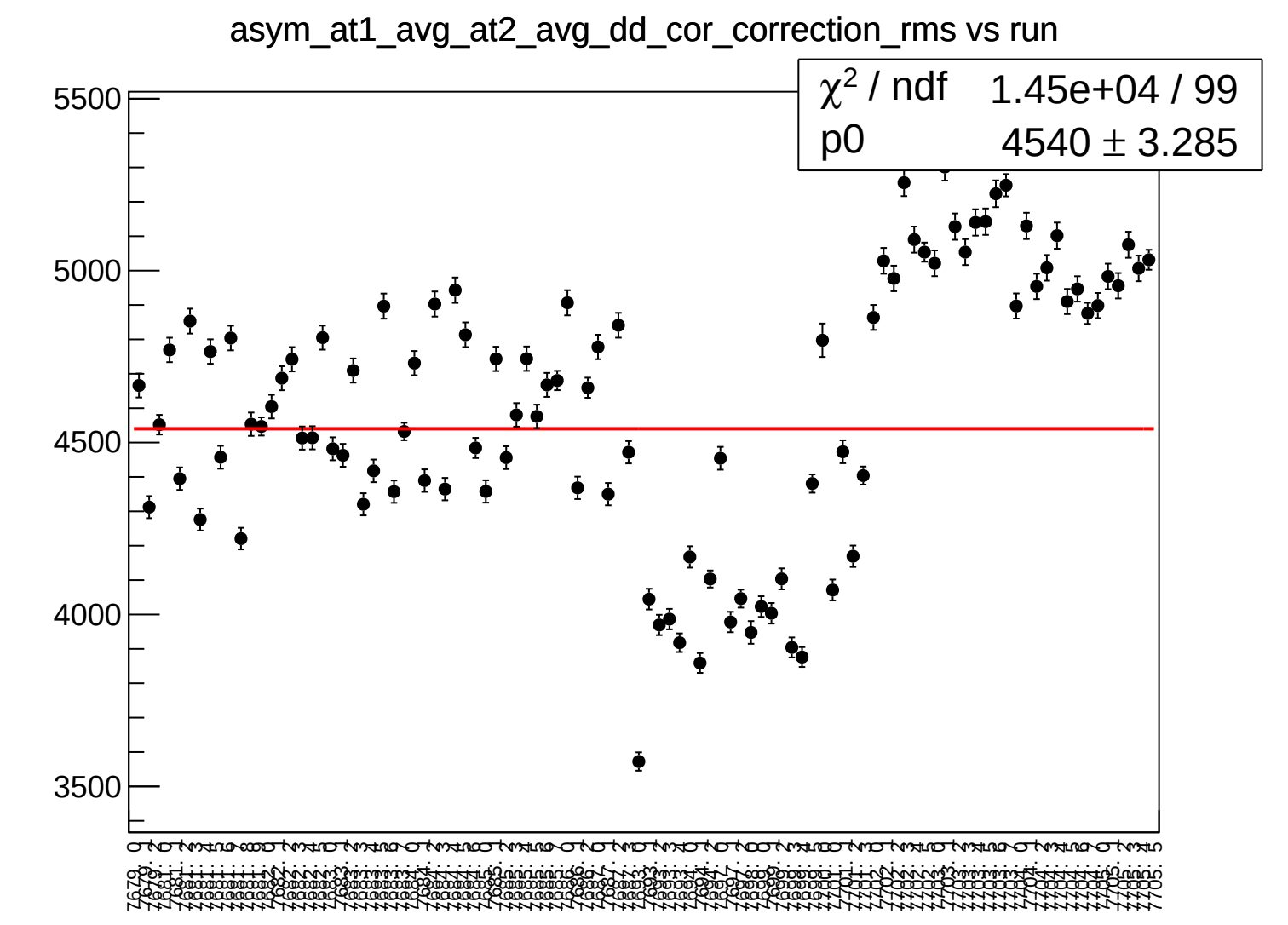

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 94.43 / 99
p0 −65.28 ± 1377
40000
20000
0
−20000
−40000
pull
Entries 100
Mean 20.53
Std Dev 85.68
3
2
1
0
−1
−2

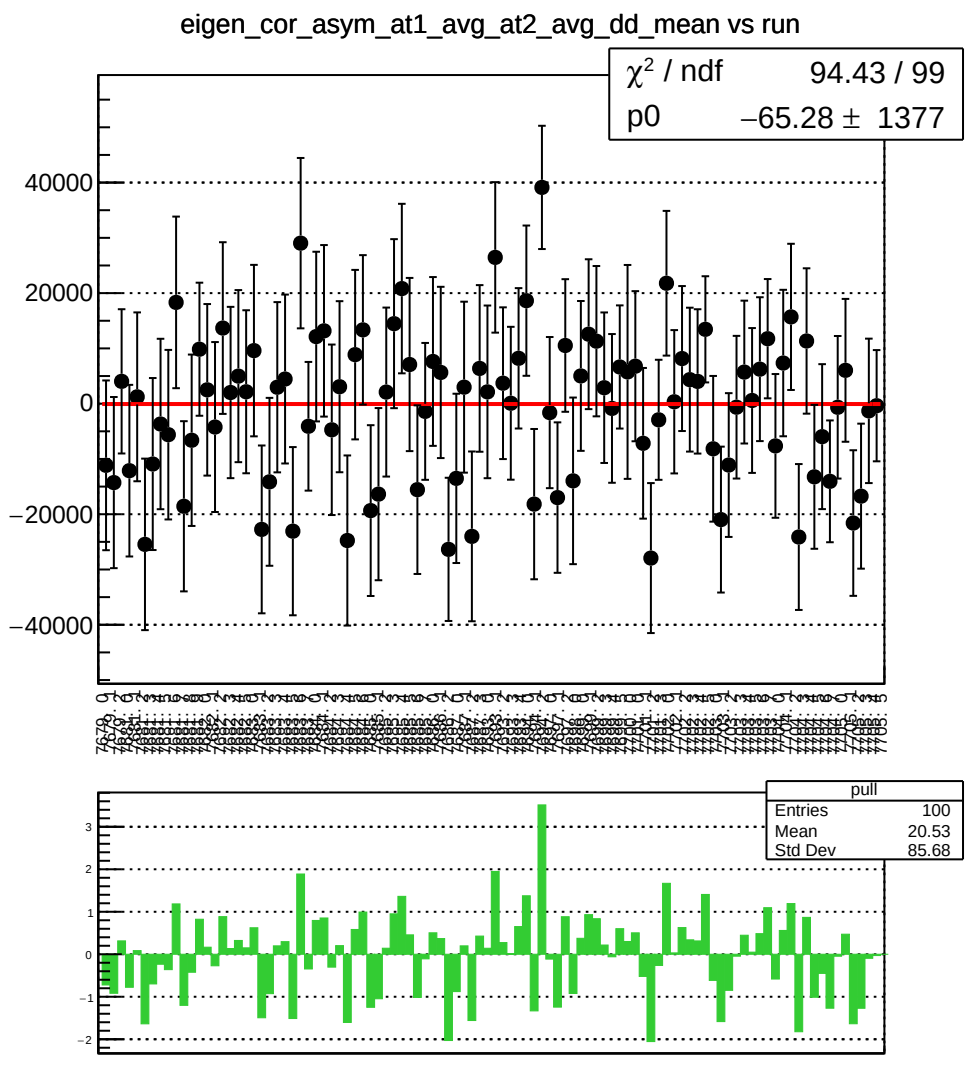

pull1D
Entries 100
Mean −0.0209
Std Dev 0.9715
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

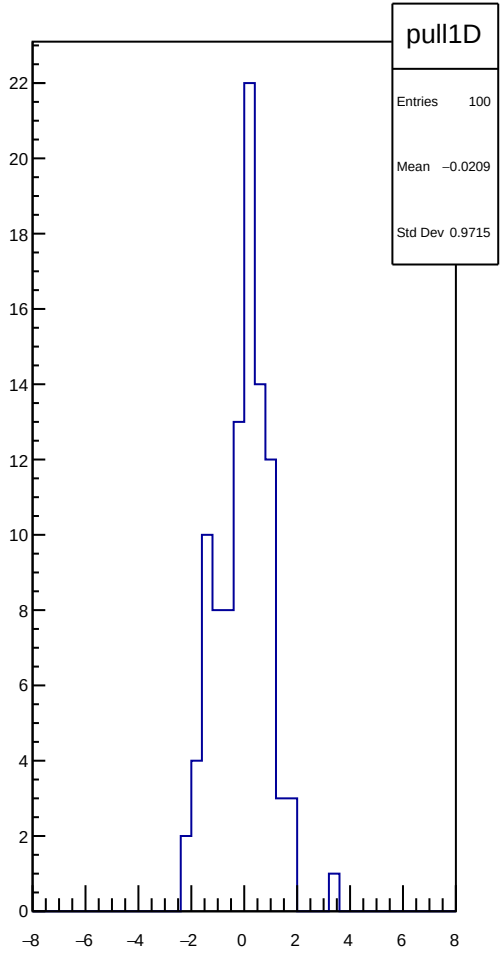

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 1.089e+04 / 99
p0 1347 ± 0.9734
1500
1450
1400
1350
1300
1250
1200

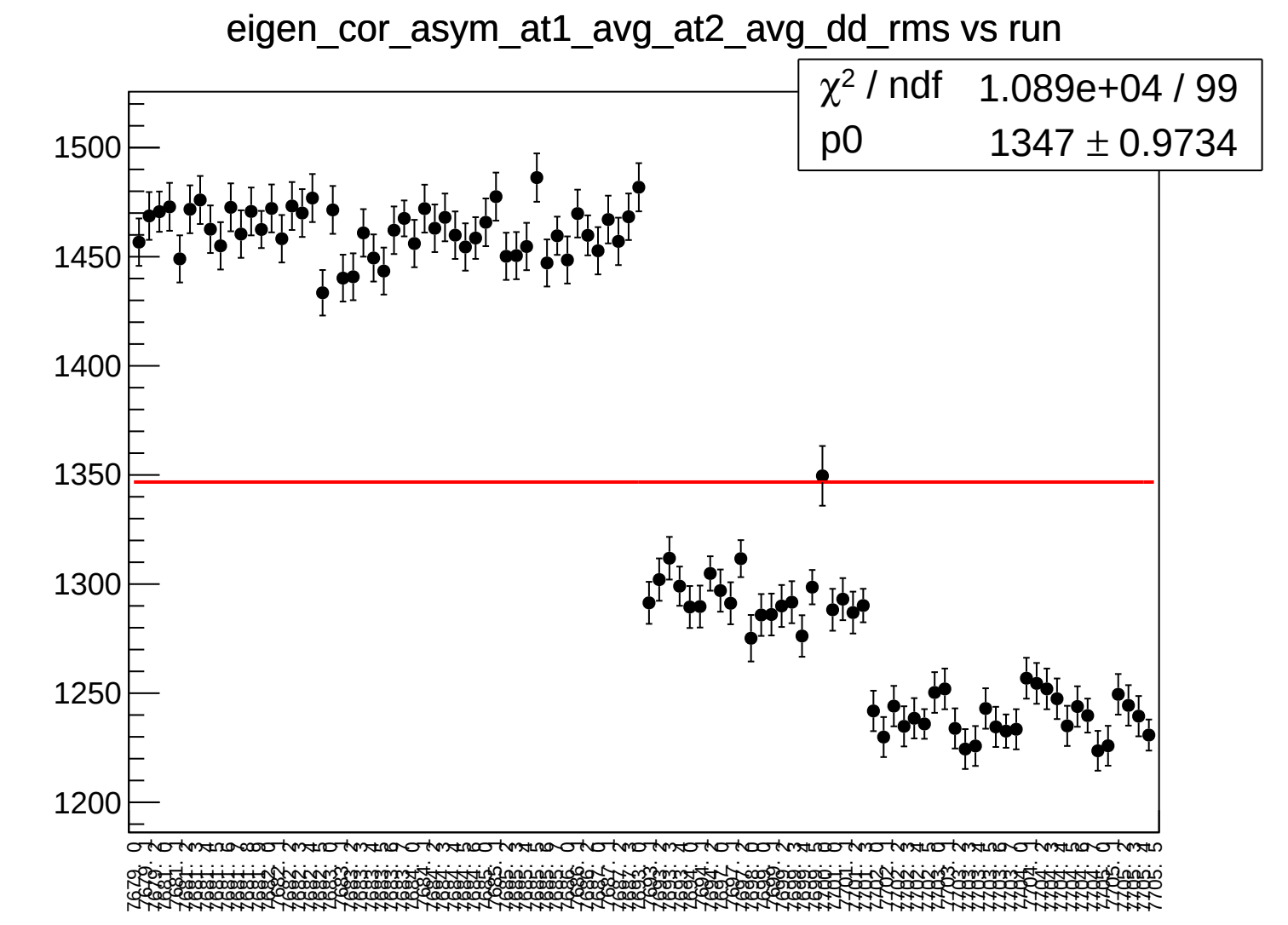

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 103.3 / 99
p0 −6558 ± 4645
pull
Entries 100
Mean 412.6
Std Dev 0

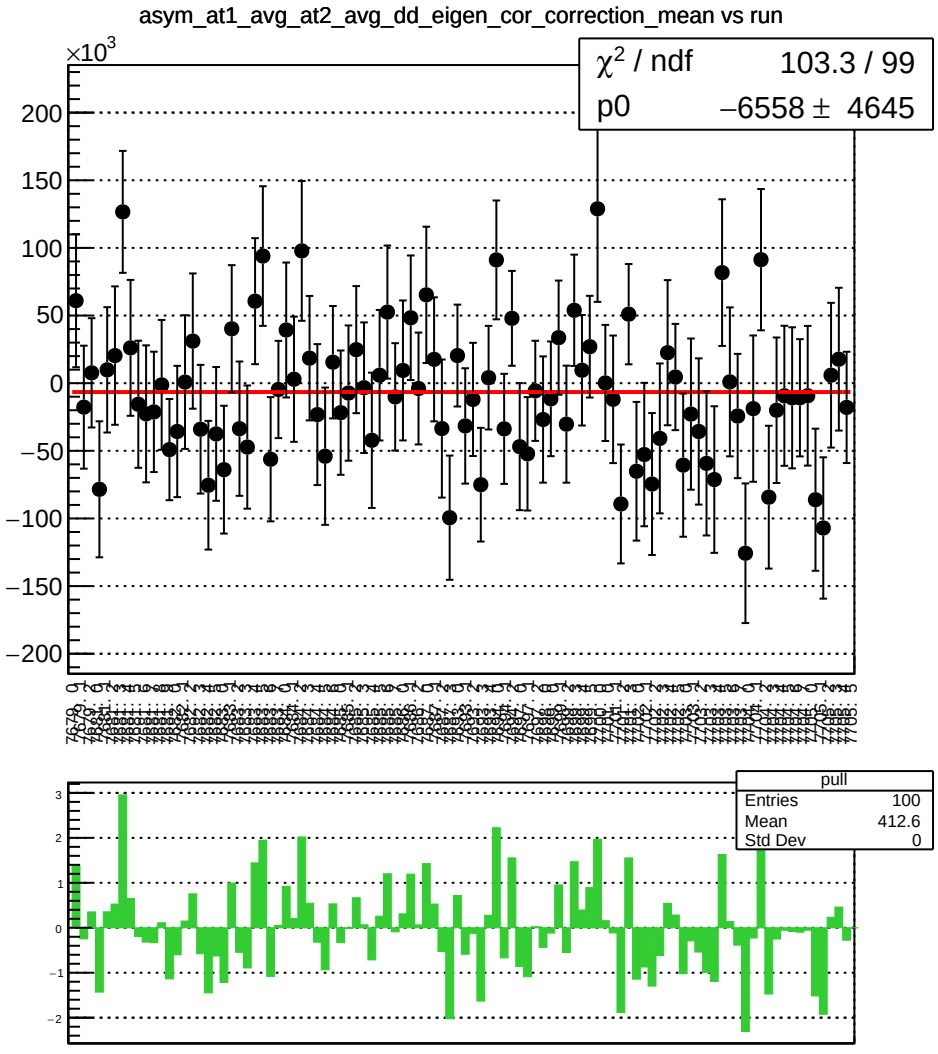

pull1D
Entries 100
Mean −0.01318
Std Dev 1.016

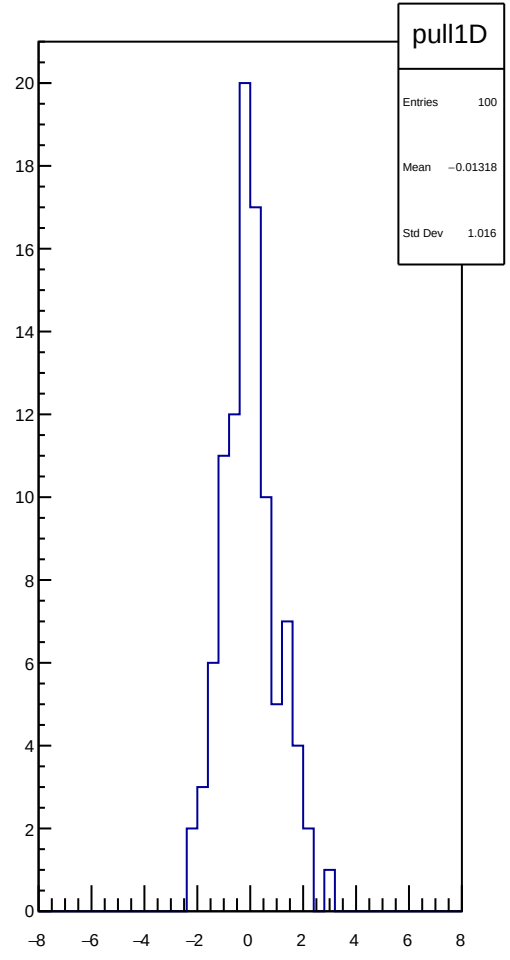

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 1.45e+04 / 99
p0 4540 ± 3.285
5500
5000
4500
4000
3500

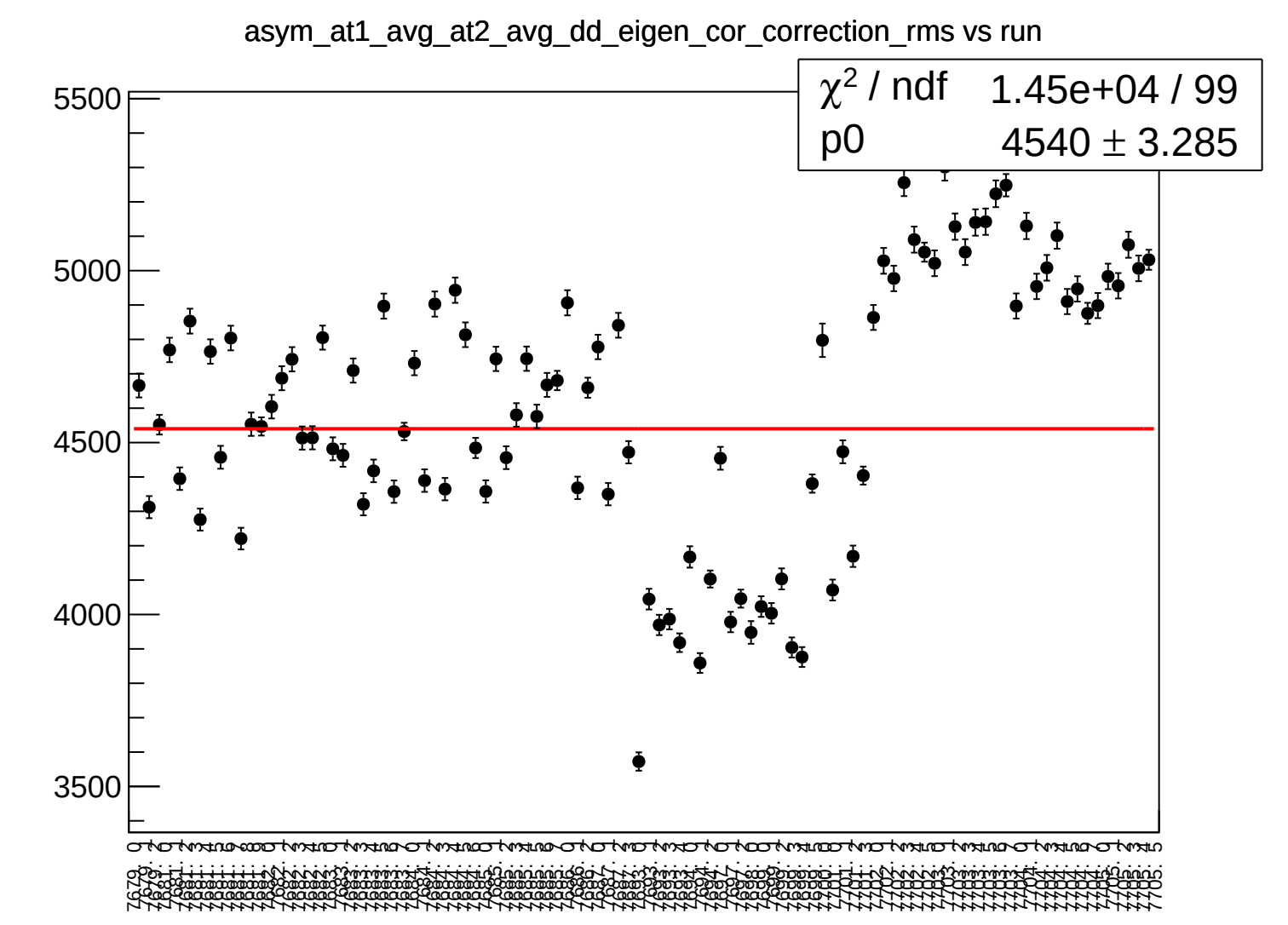

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 94.43 / 99
p0 −65.28 ± 1377
40000
20000
0
−20000
−40000
pull
Entries 100
Mean 20.53
Std Dev 85.68
3
2
1
0
−1
−2

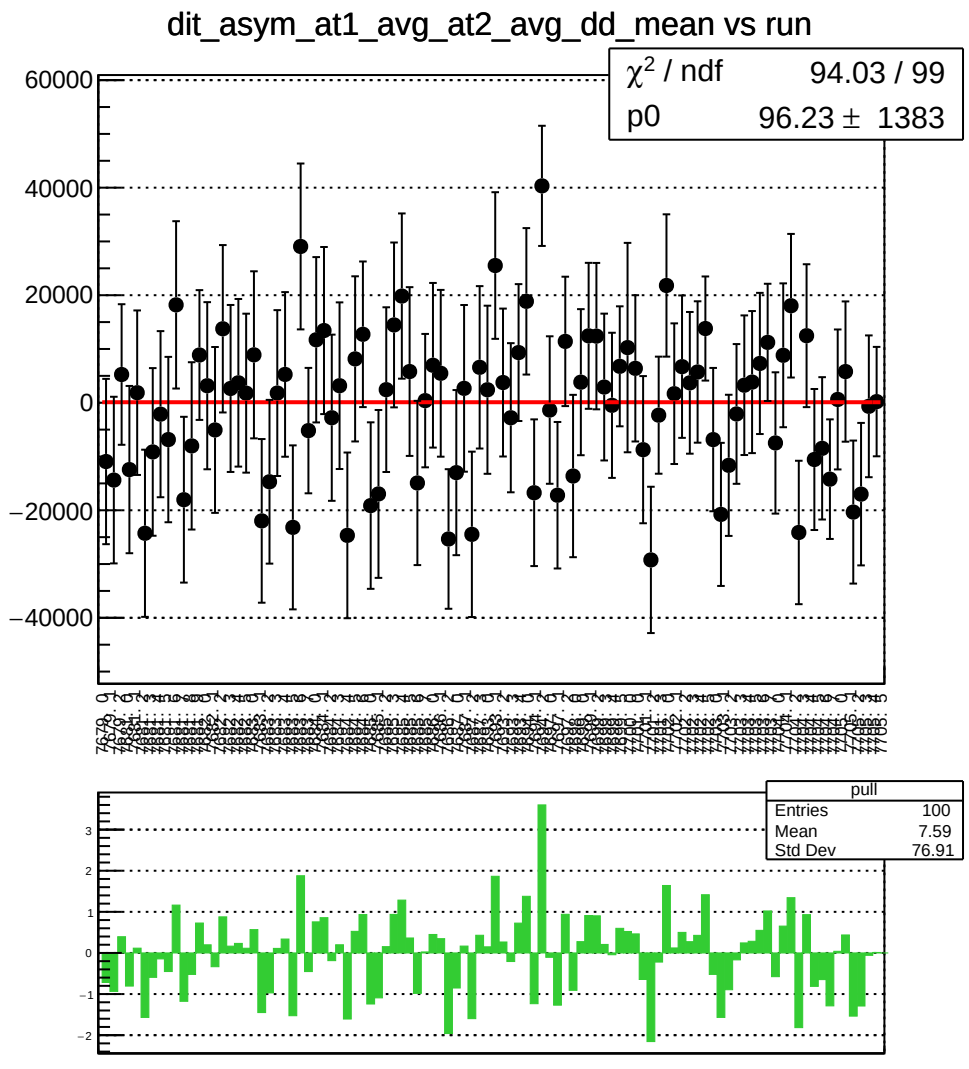

pull1D
Entries 100
Mean −0.0209
Std Dev 0.9715
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

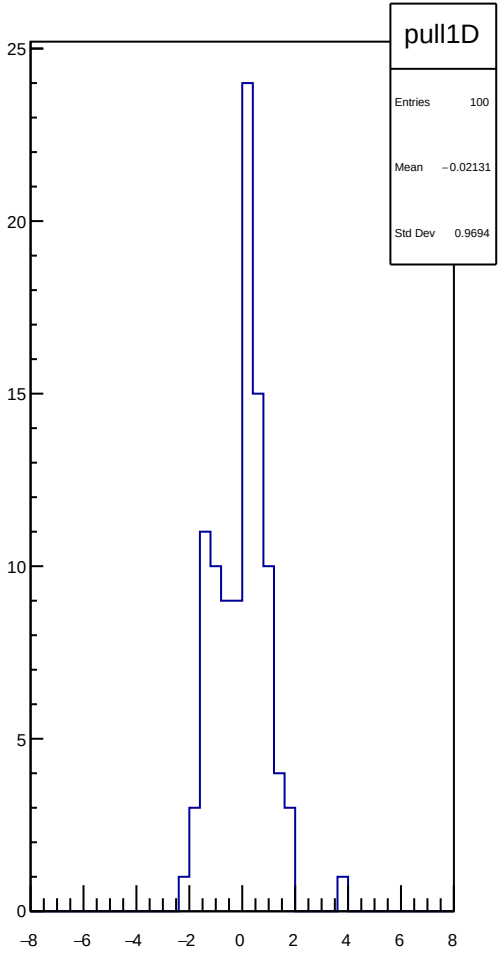

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 1.089e+04 / 99
p0 1347 ± 0.9734
1500
1450
1400
1350
1300
1250
1200

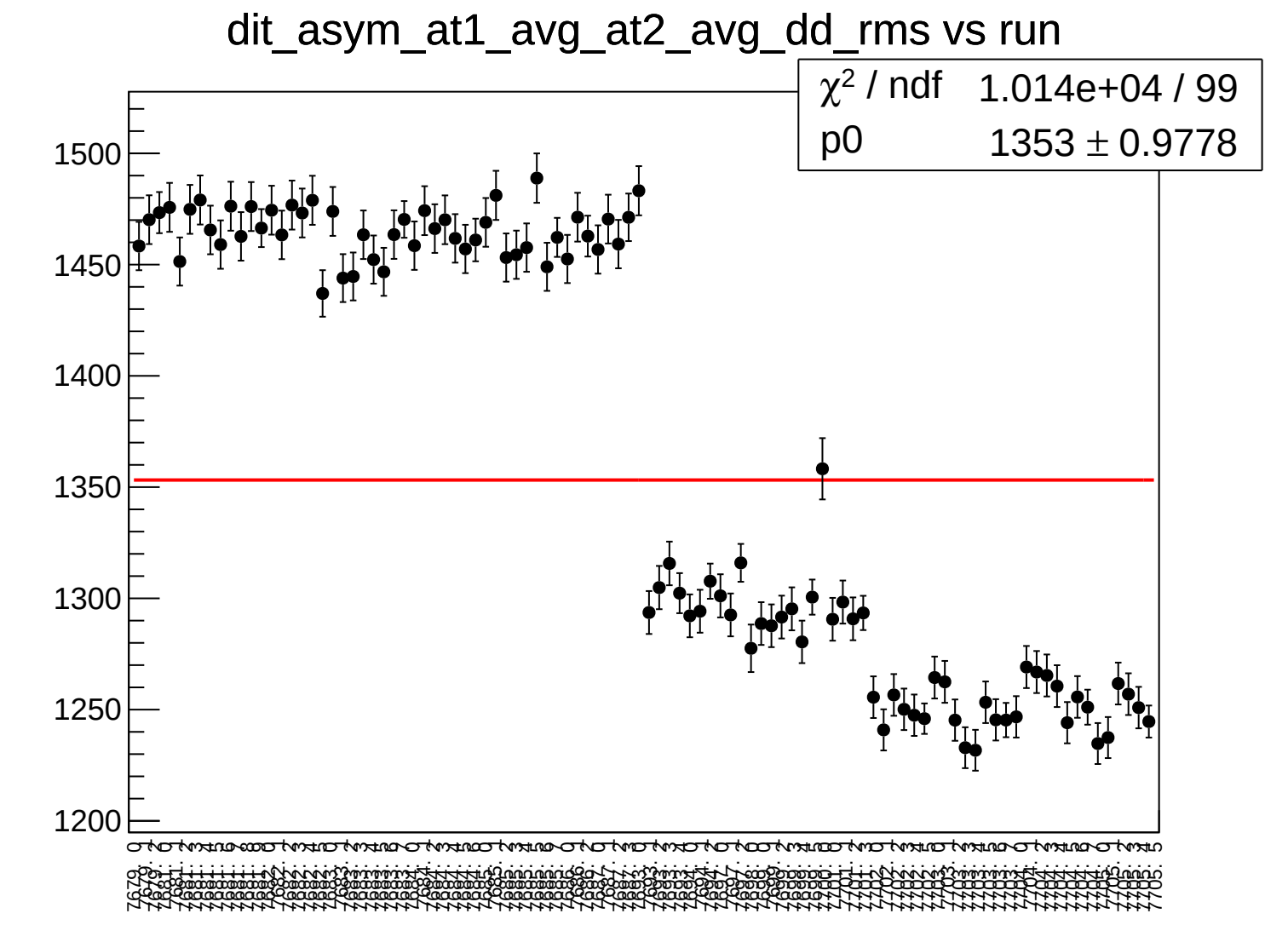

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 103.3 / 99
p0 −6558 ± 4645
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 100
Mean 412.6
Std Dev 0
3
2
1
0
−1
−2

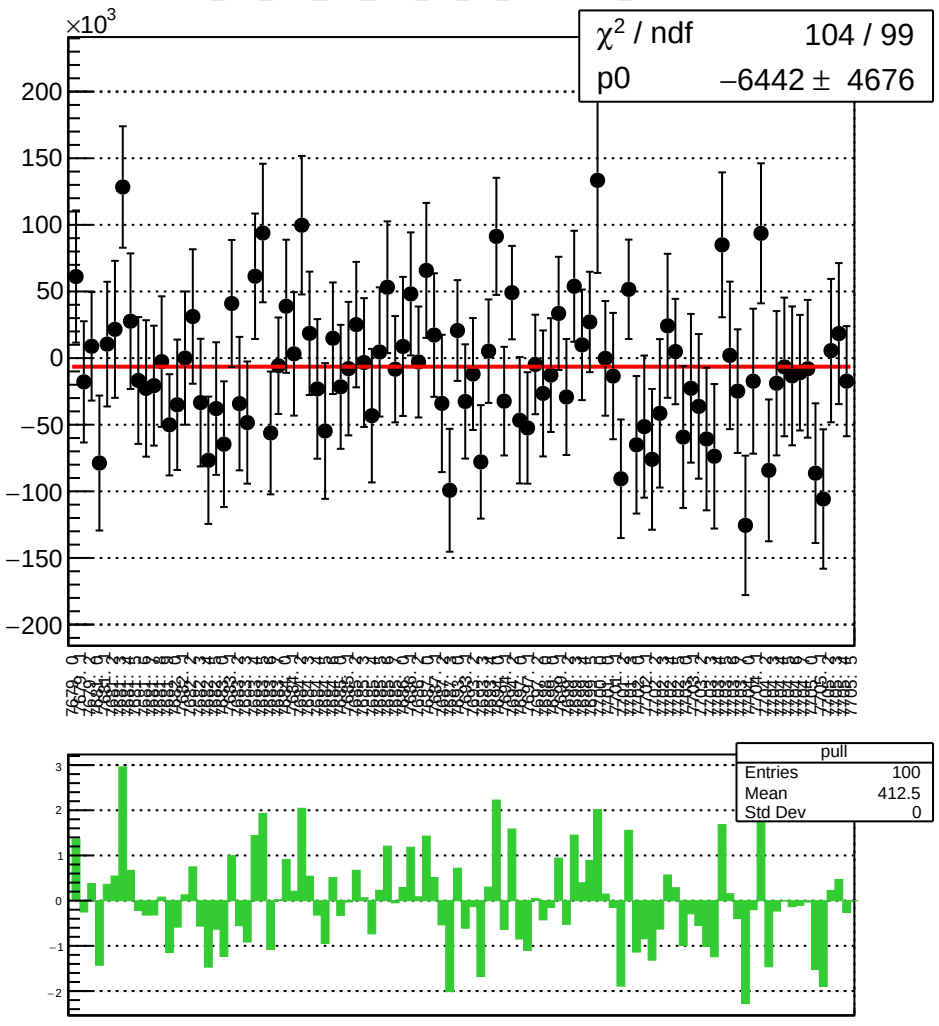

pull1D
Entries 100
Mean −0.01318
Std Dev 1.016
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

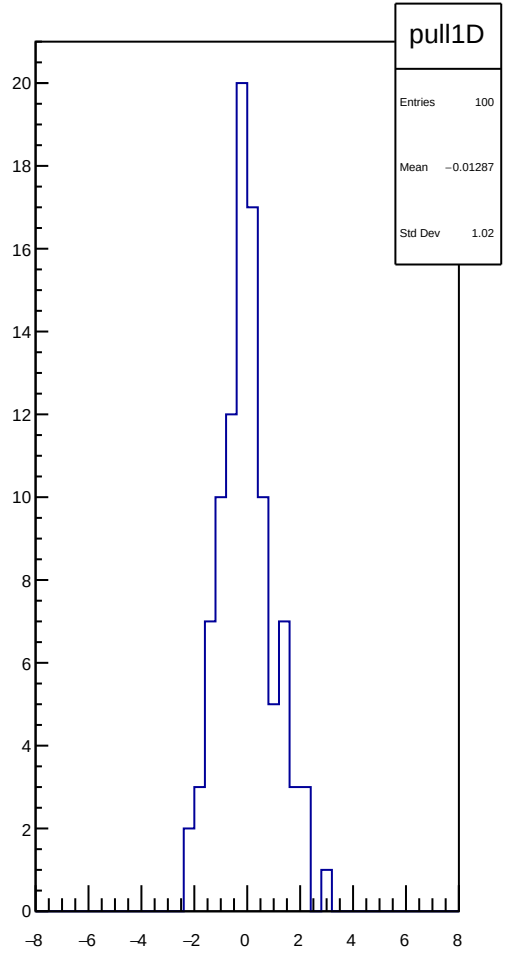

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.45e+04 / 99
p0 4540 ± 3.285
5500
5000
4500
4000
3500

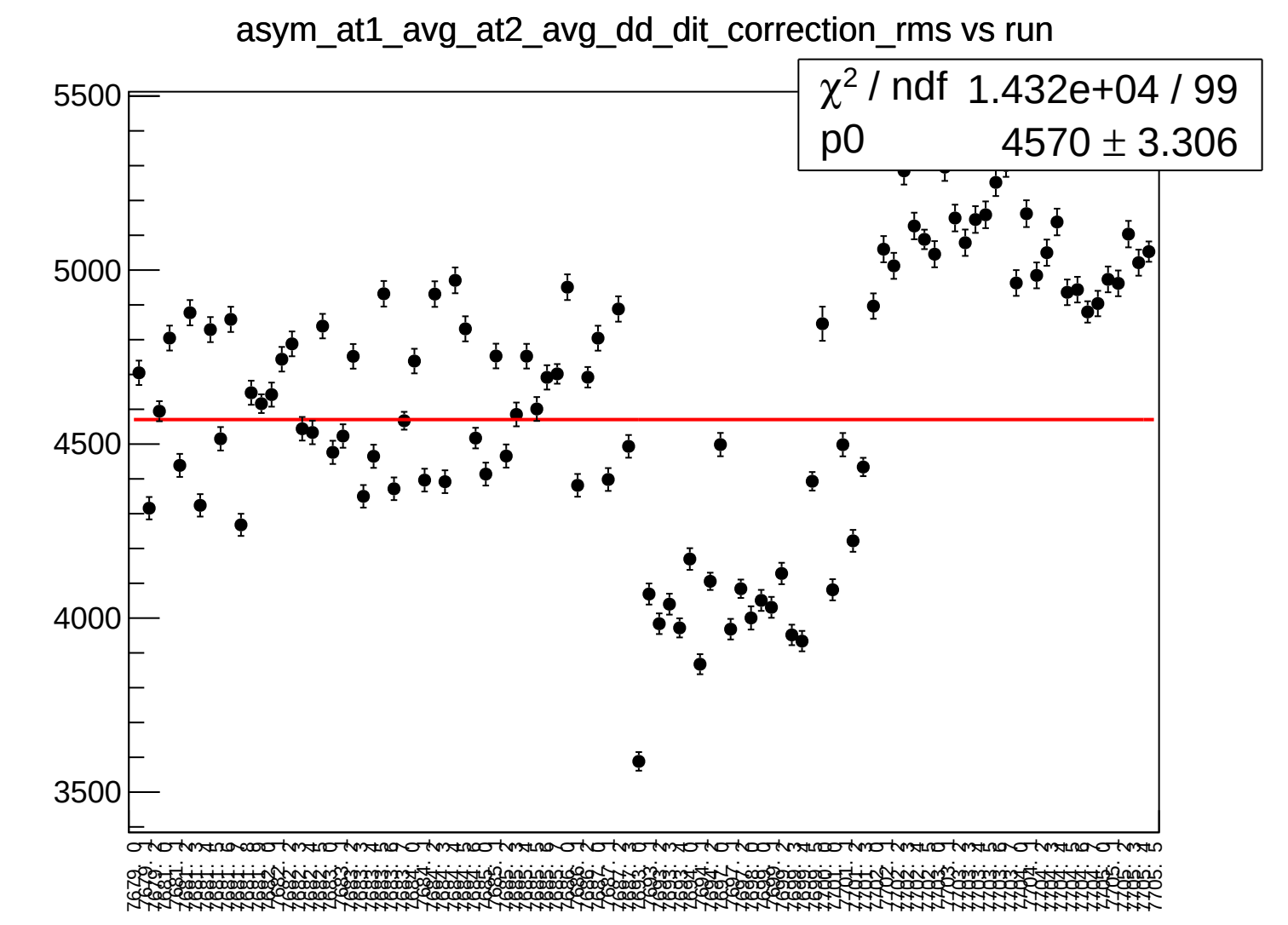

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 94.03 / 99
p0 96.23 ± 1383
60000
40000
20000
0
−20000
−40000
pull
Entries 100
Mean 7.59
Std Dev 76.91
3
2
1
0
−1
−2

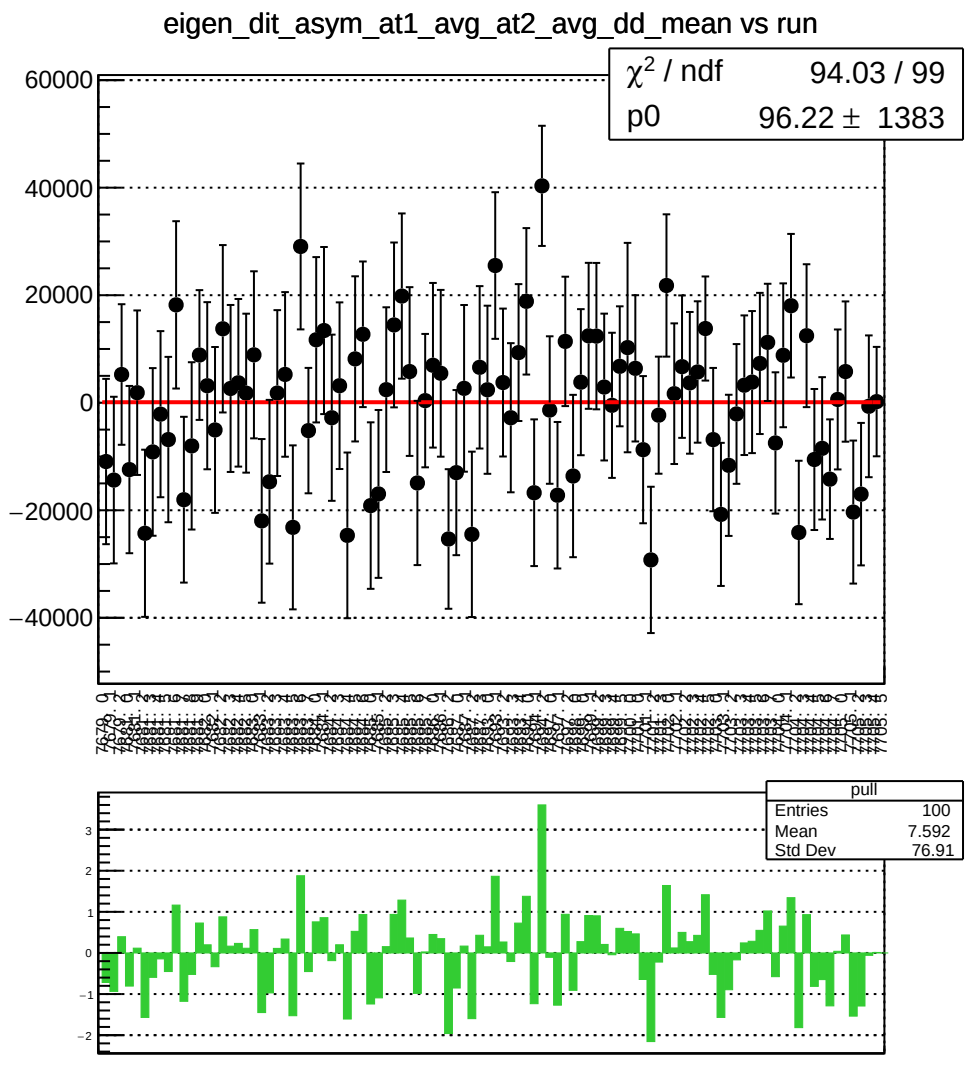

pull1D
Entries 100
Mean −0.02131
Std Dev 0.9694
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

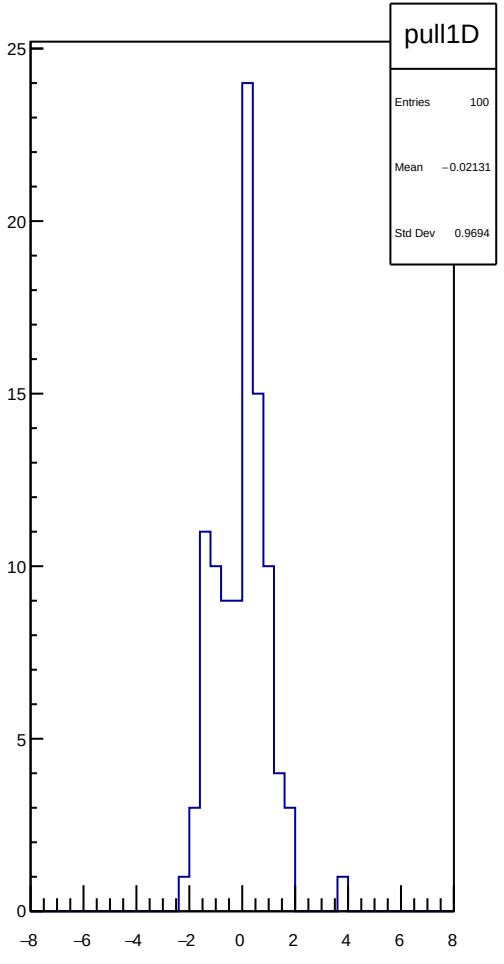

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 1.014e+04 / 99
p0 1353 ± 0.9778
1500
1450
1400
1350
1300
1250
1200

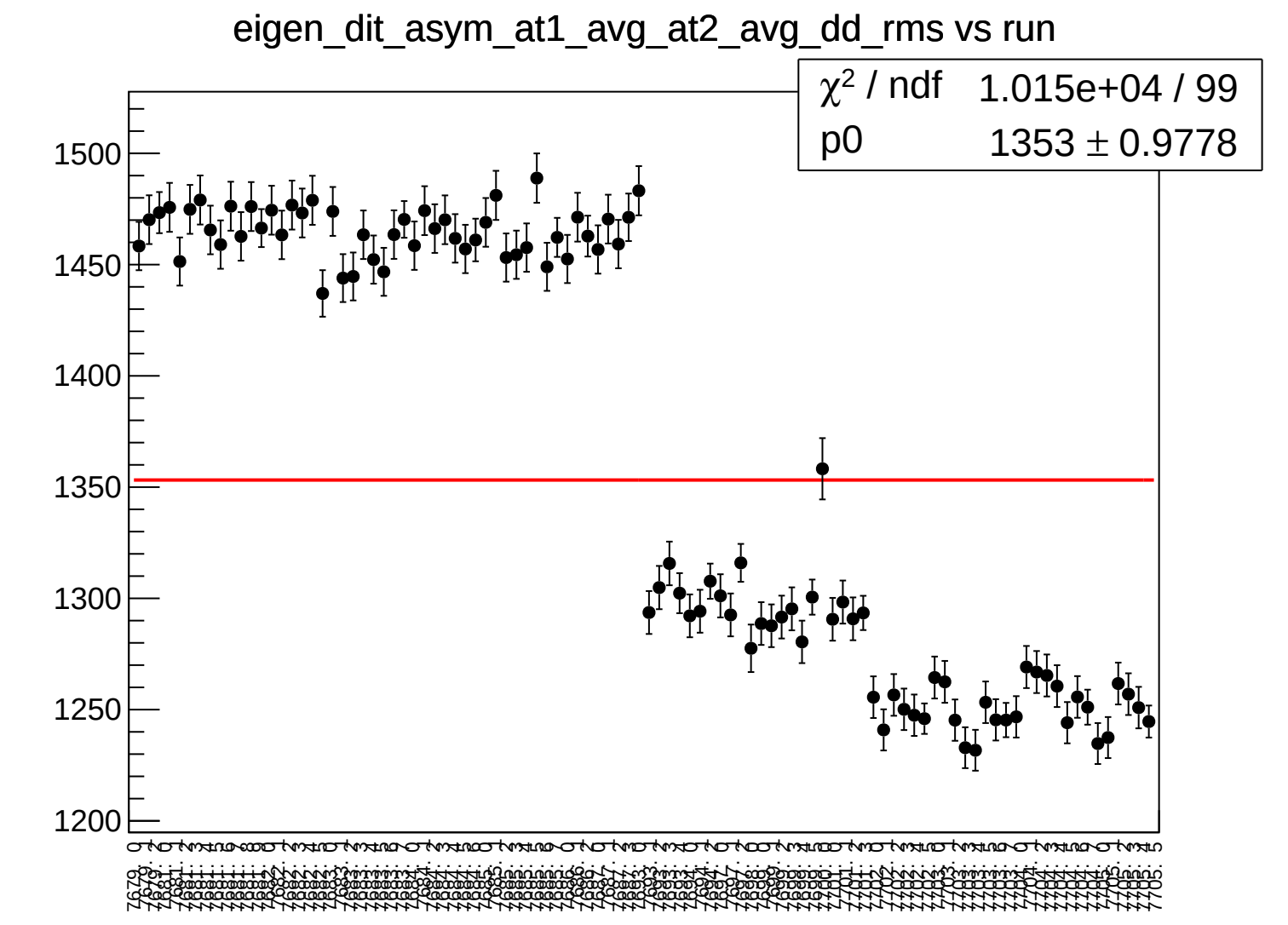

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 104 / 99
p0 −6442 ± 4676
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 100
Mean 412.5
Std Dev 0
3
2
1
0
−1
−2

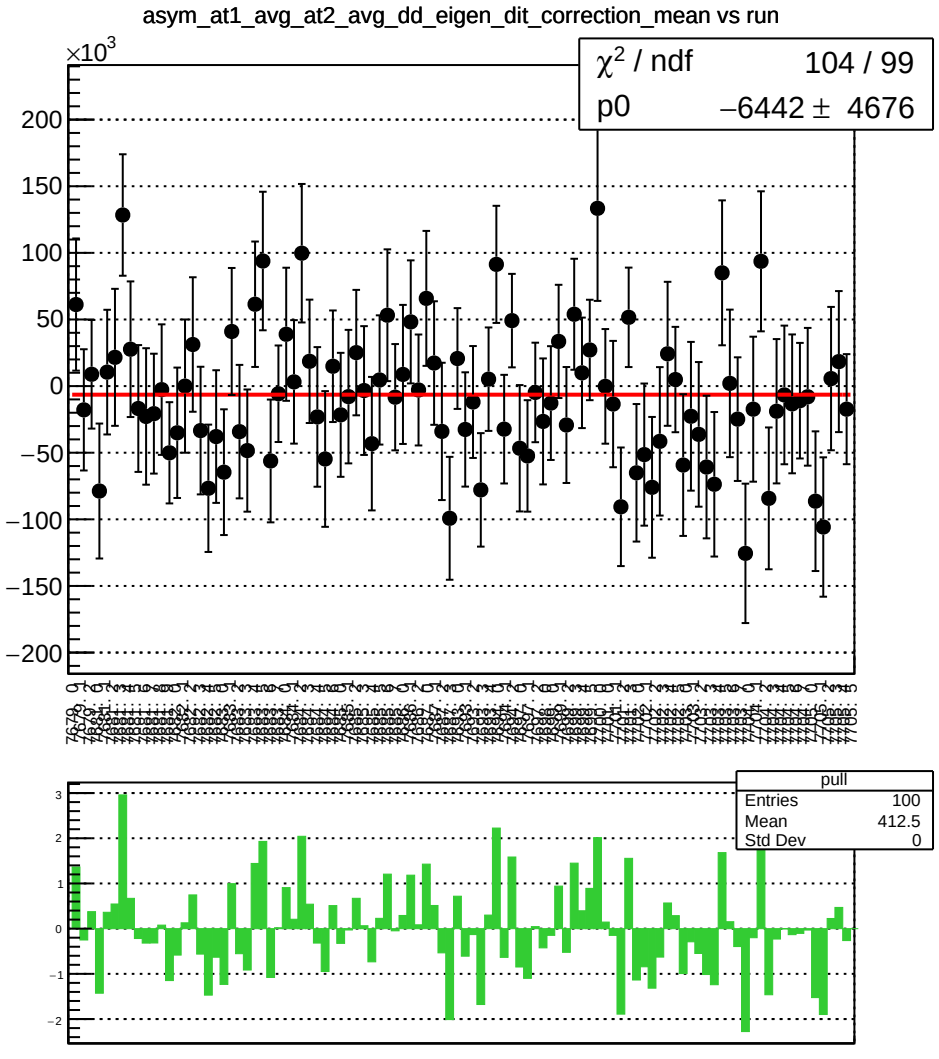

pull1D
Entries 100
Mean −0.01287
Std Dev 1.02
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

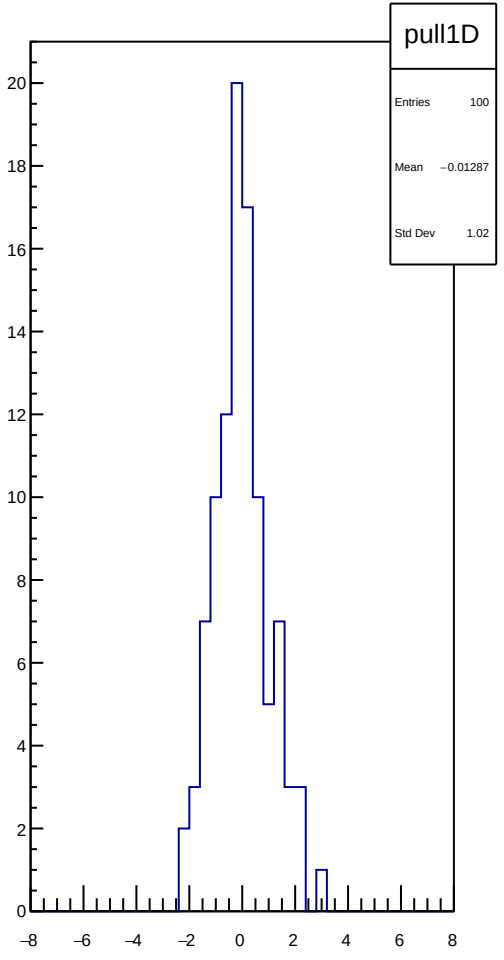

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 1.432e+04 / 99
p0 4570 ± 3.306
5500
5000
4500
4000
3500

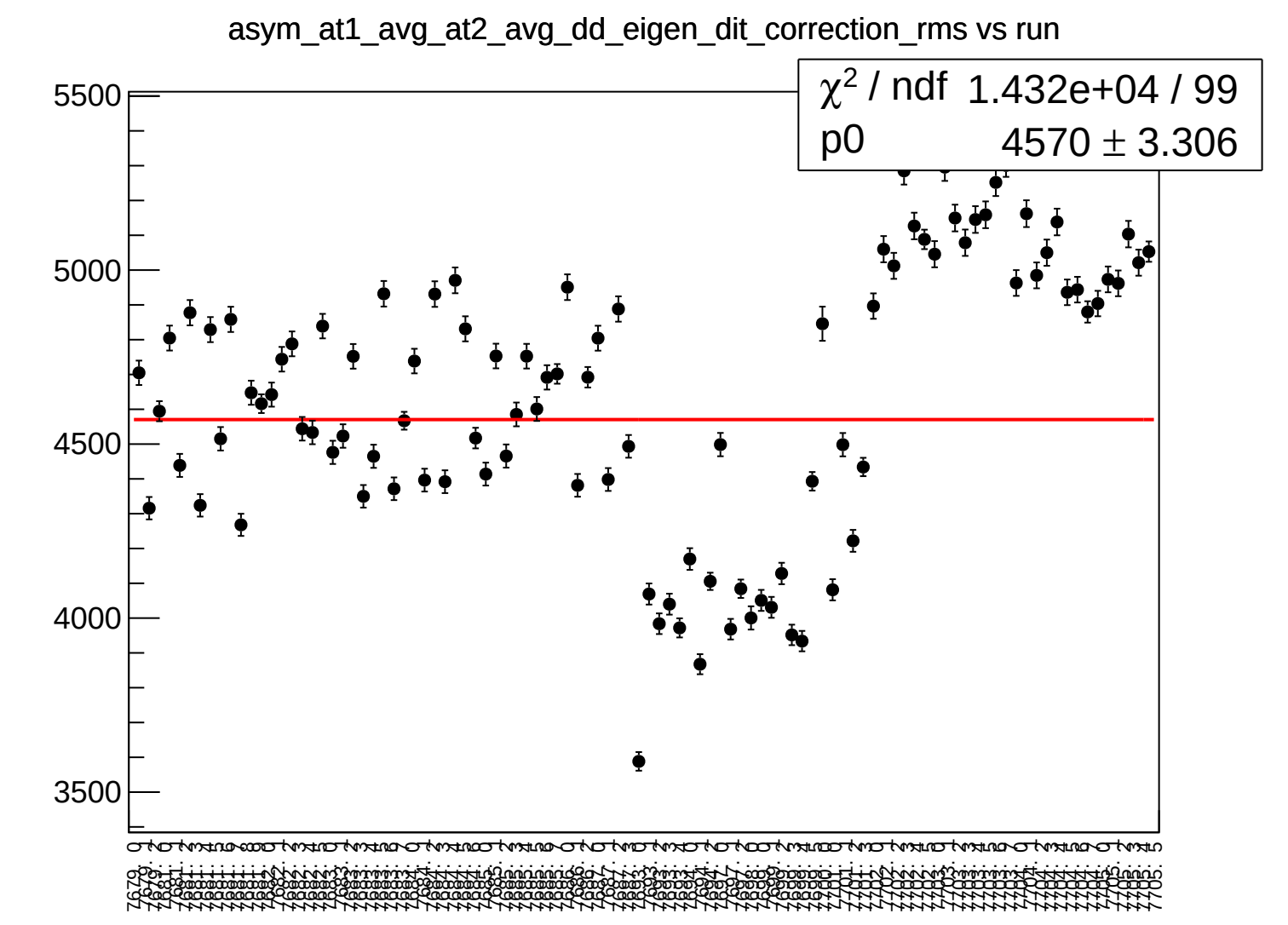

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 94.03 / 99
p0 96.22 ± 1383
60000
40000
20000
0
−20000
−40000
pull
Entries 100
Mean 7.592
Std Dev 76.91
3
2
1
0
−1
−2

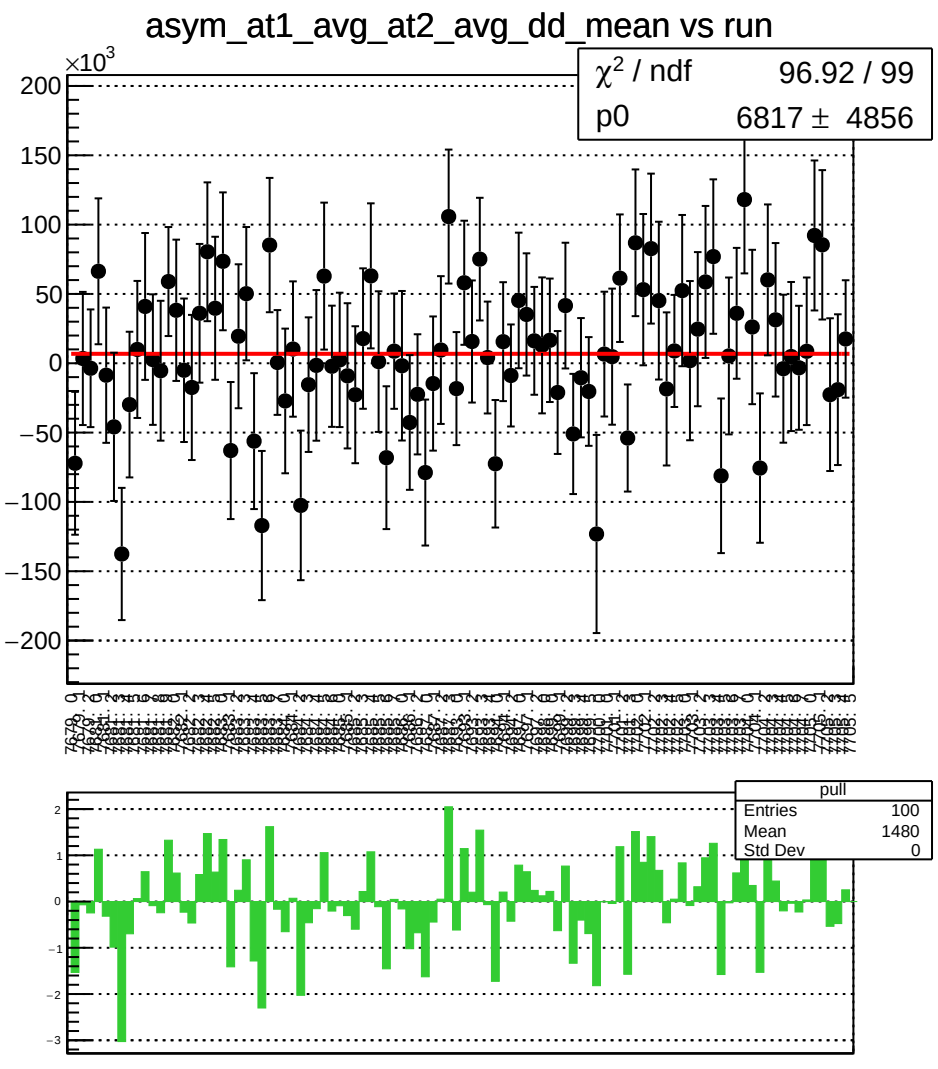

pull1D
Entries 100
Mean −0.02131
Std Dev 0.9694
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

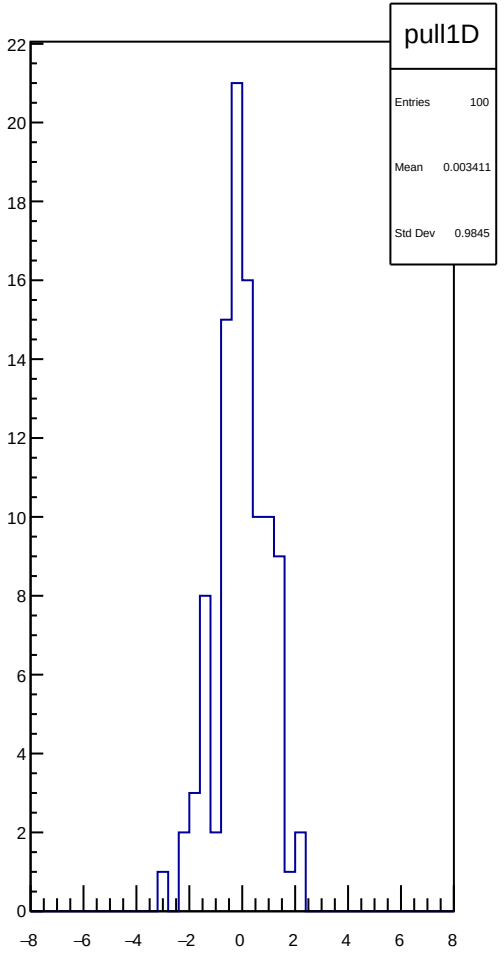

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 1.015e+04 / 99
p0 1353 ± 0.9778
1500
1450
1400
1350
1300
1250
1200

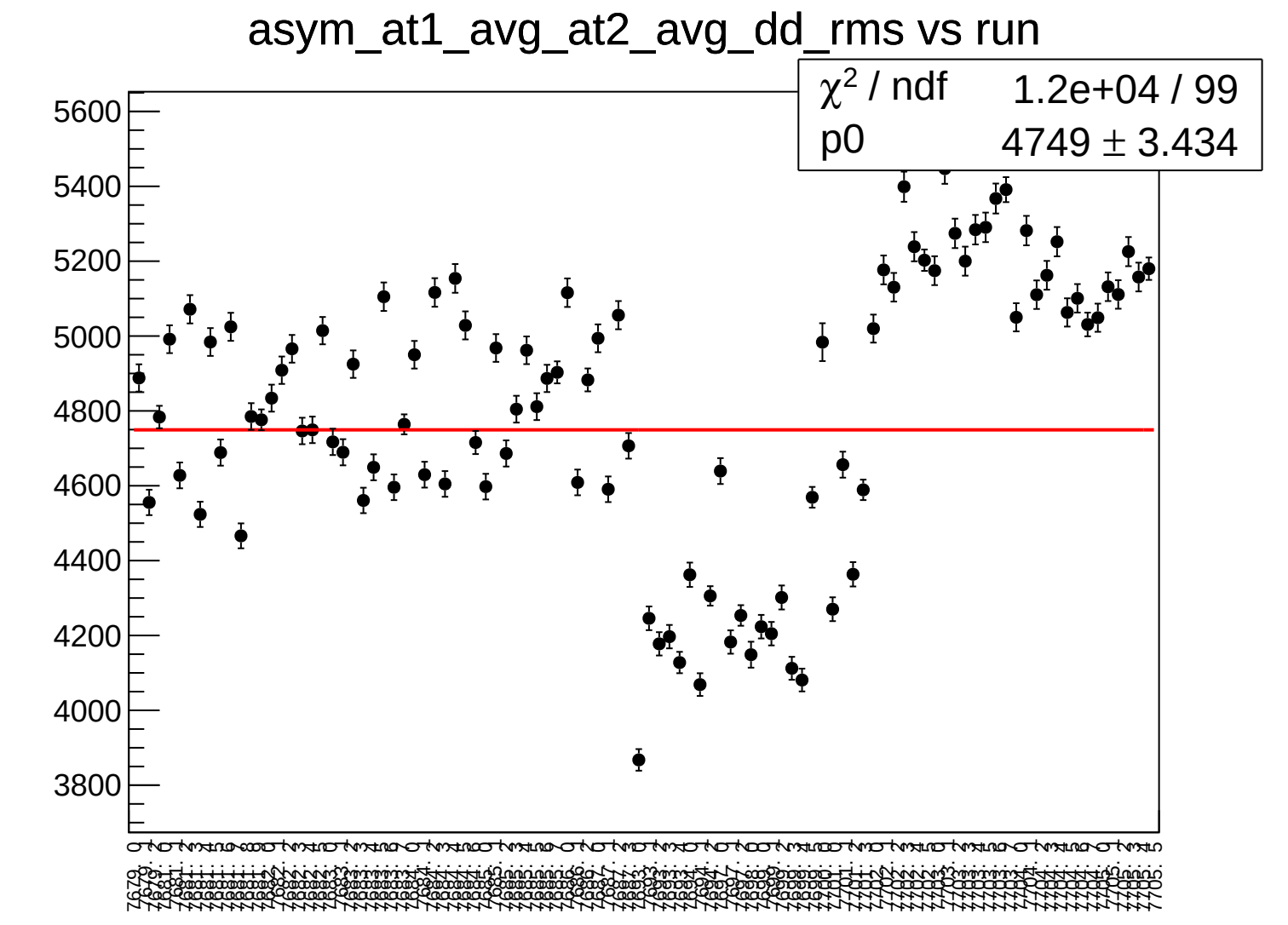

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 104 / 99
p0 −6442 ± 4676
pull
Entries 100
Mean 412.5
Std Dev 0

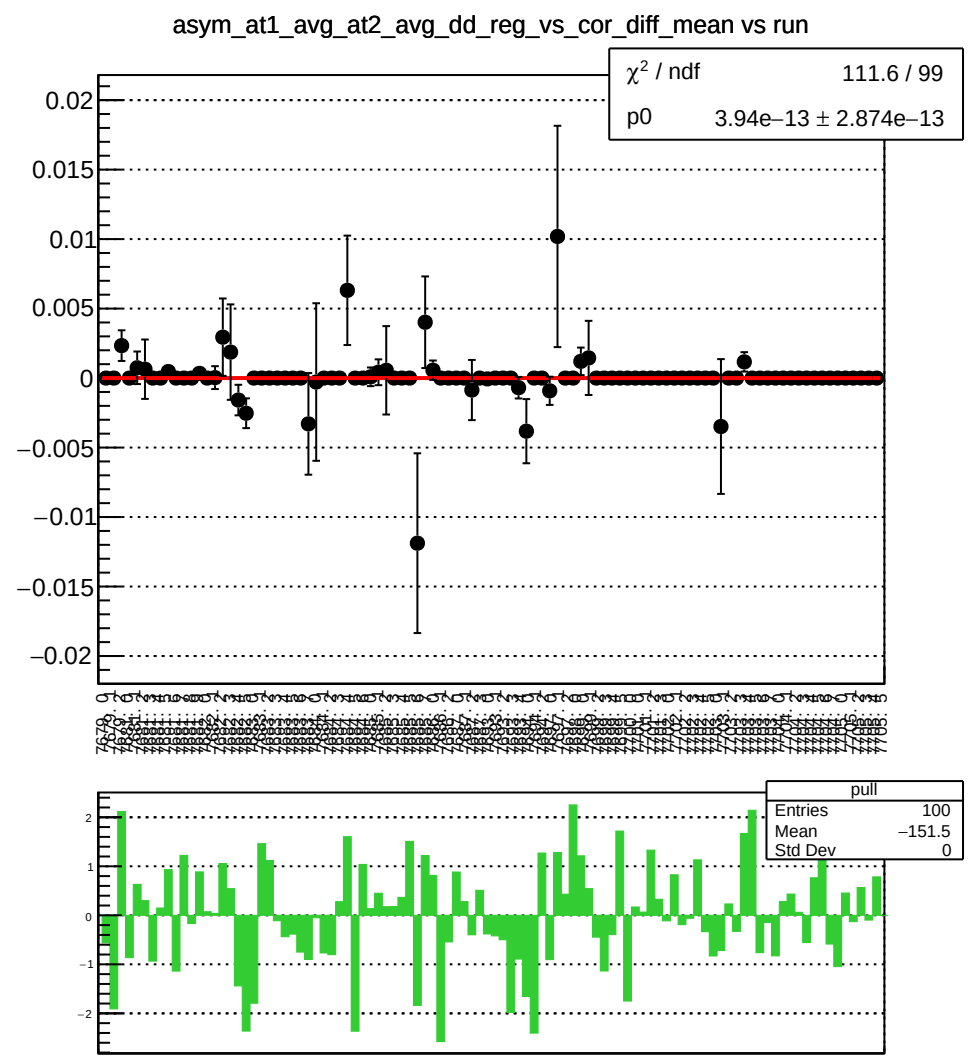

pull1D
Entries 100
Mean −0.01287
Std Dev 1.02

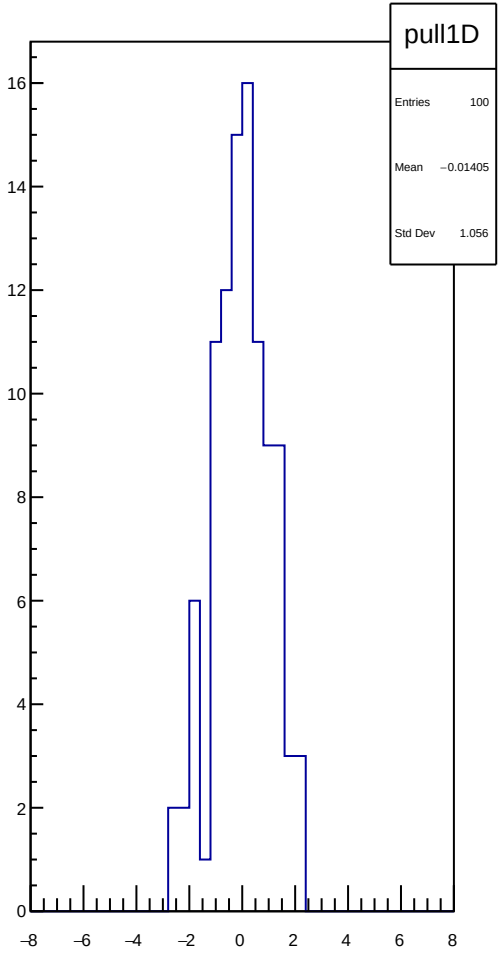

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.432e+04 / 99
p0 4570 ± 3.306
5500
5000
4500
4000
3500

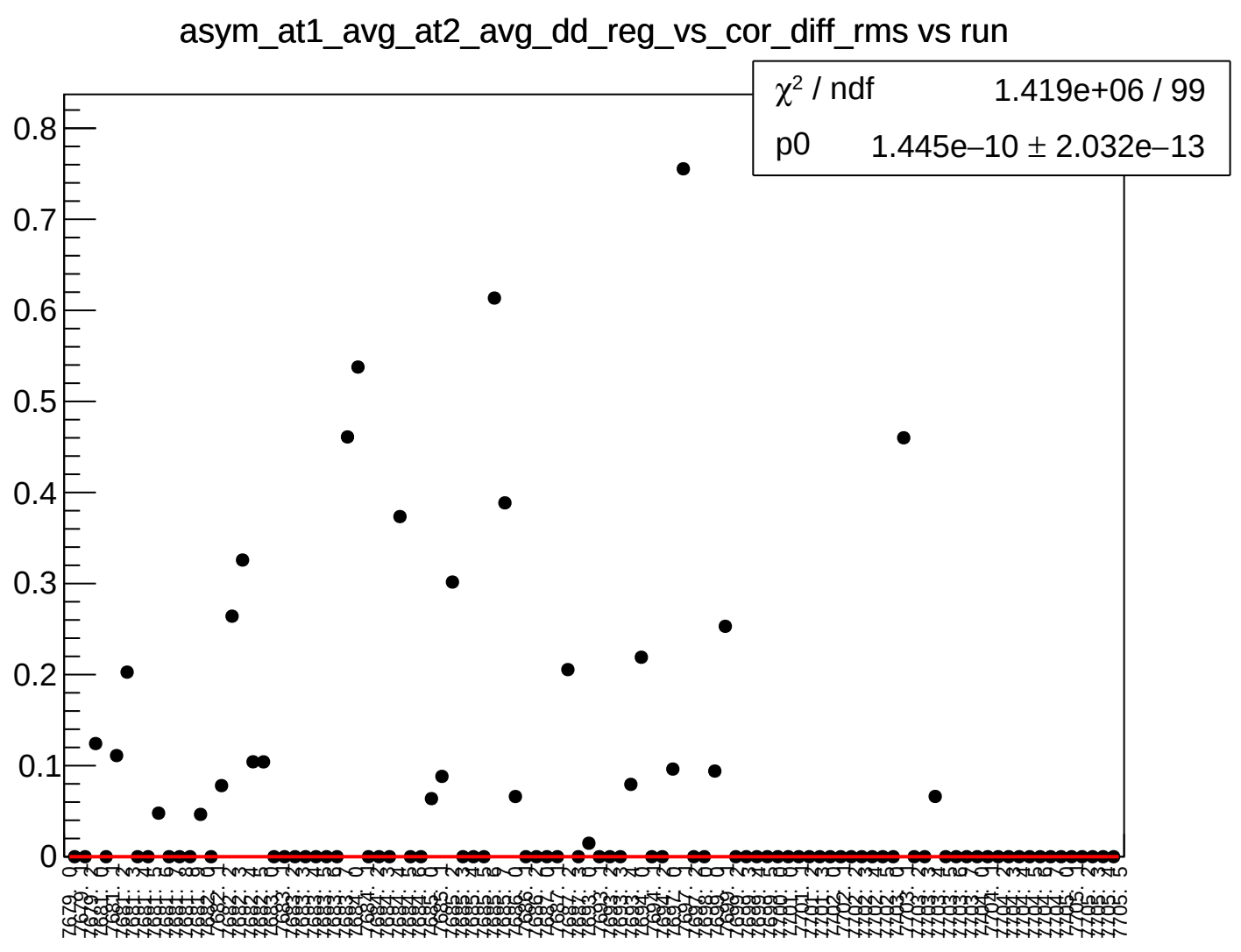

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 96.92 / 99
p0 6817 ± 4856
pull
Entries 100
Mean 1480
Std Dev 0

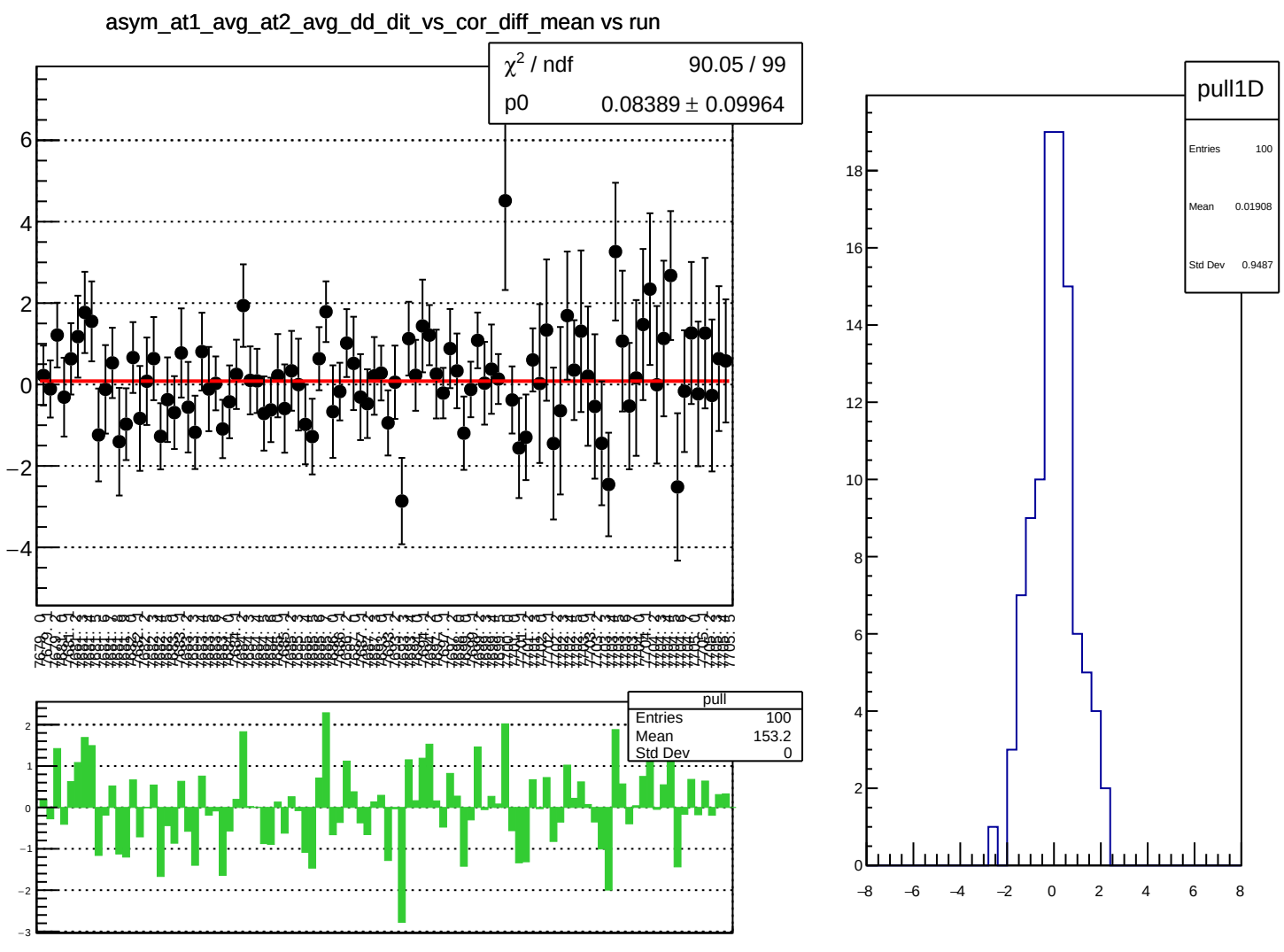

pull1D
Entries 100
Mean 0.003411
Std Dev 0.9845

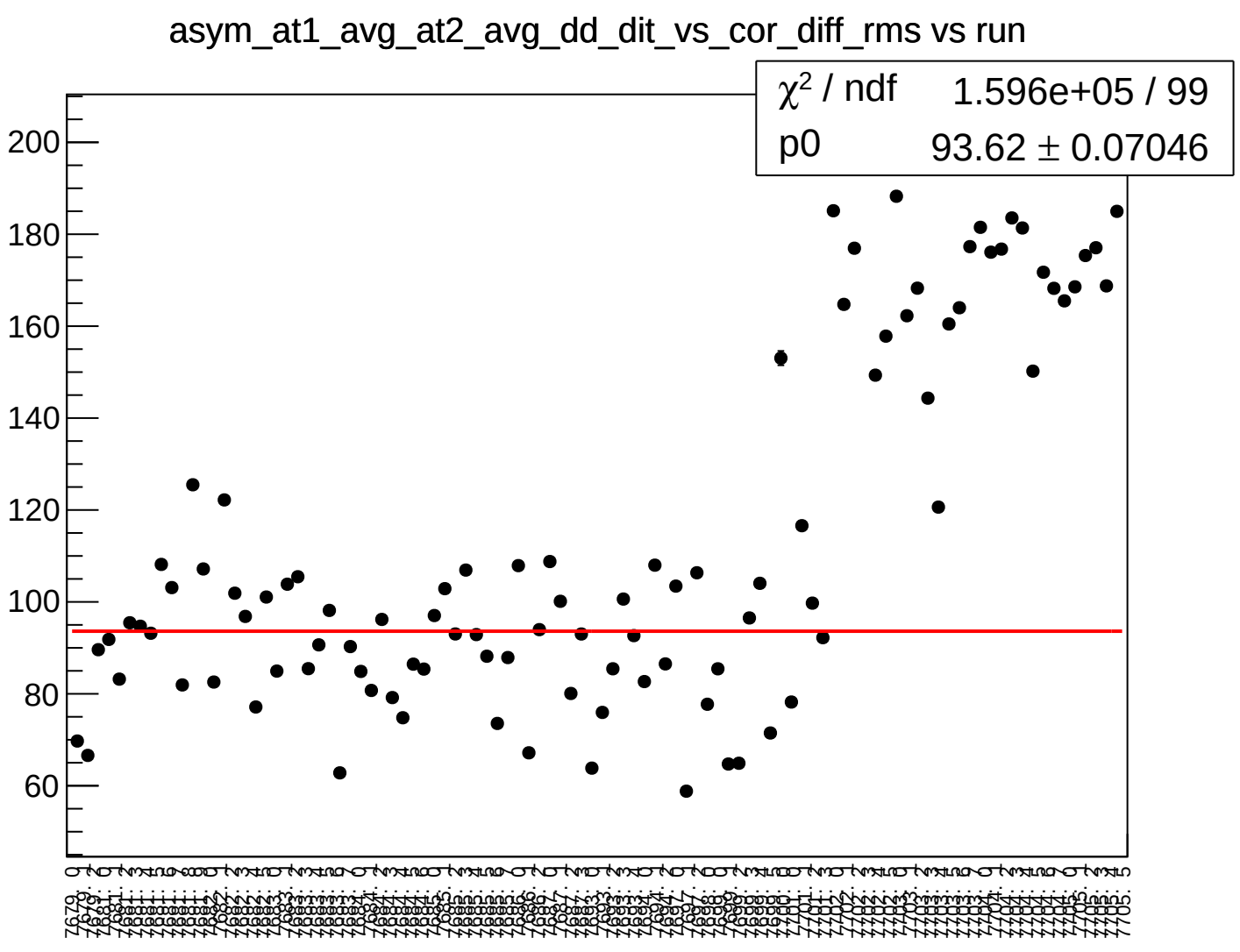

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 1.2e+04 / 99
p0 4749 ± 3.434
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

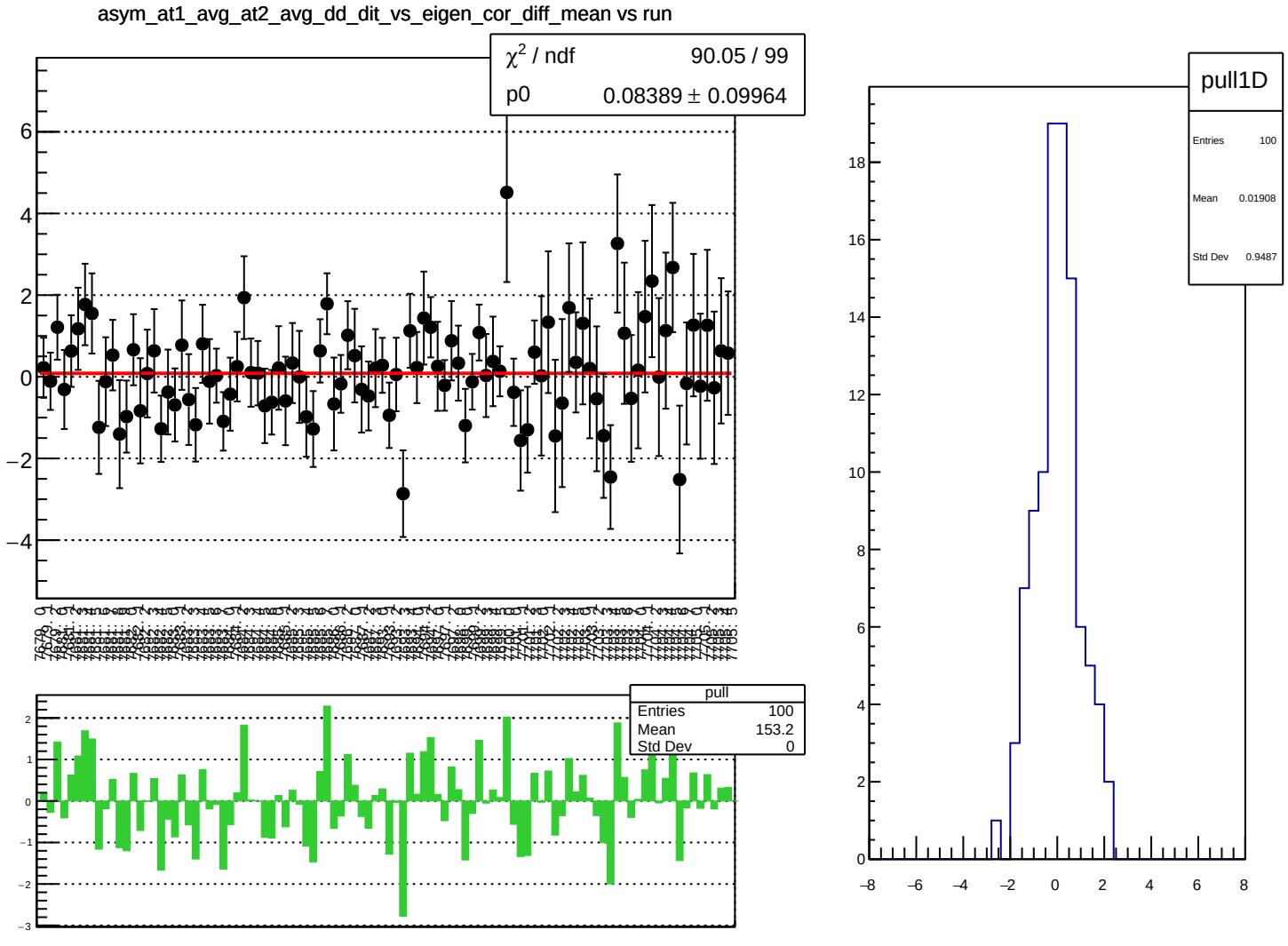

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 111.6 / 99
p0 3.94e−13 ± 2.874e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 100
Mean −151.5
Std Dev 0
2
1
0
−1
−2

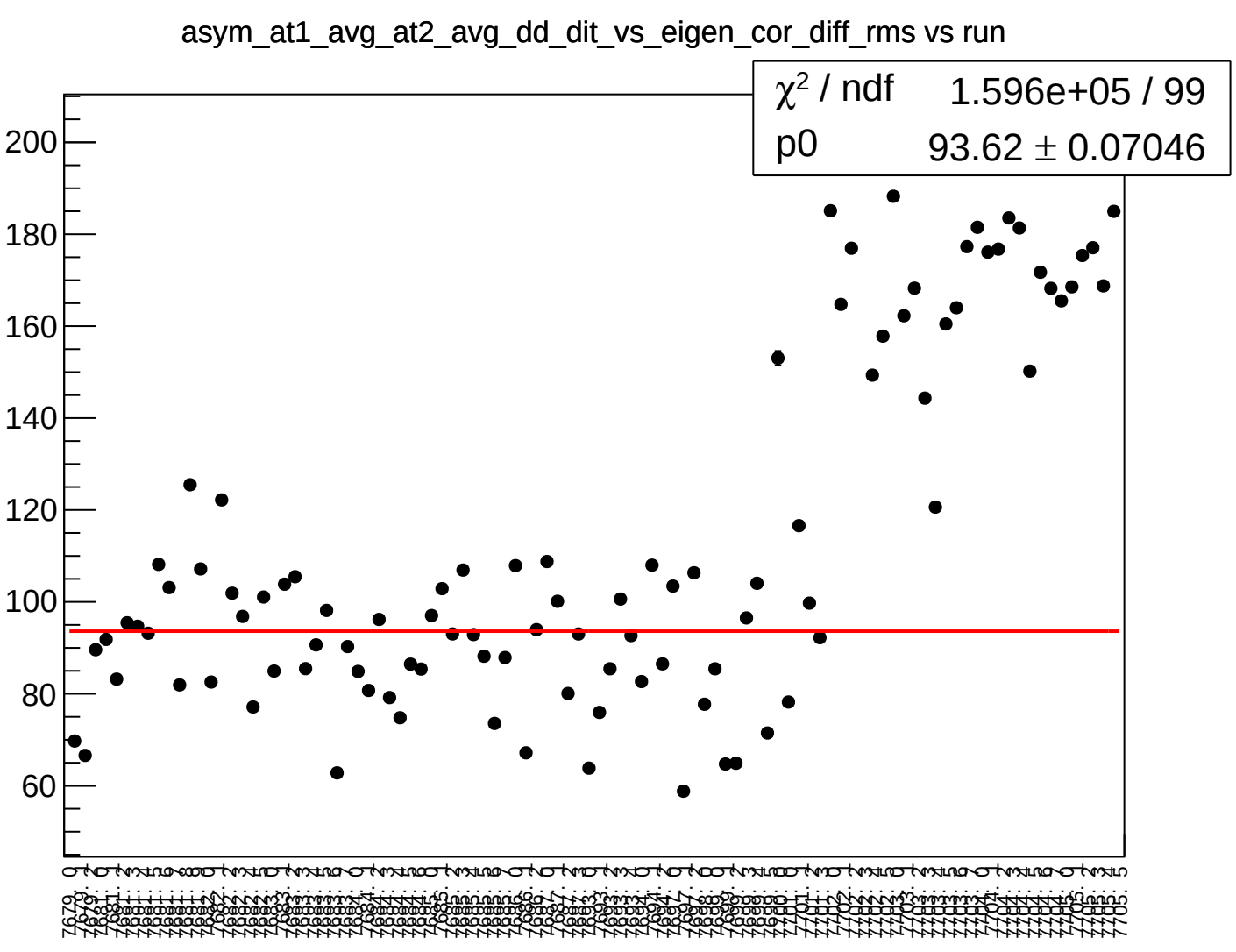

pull1D
Entries 100
Mean −0.01405
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

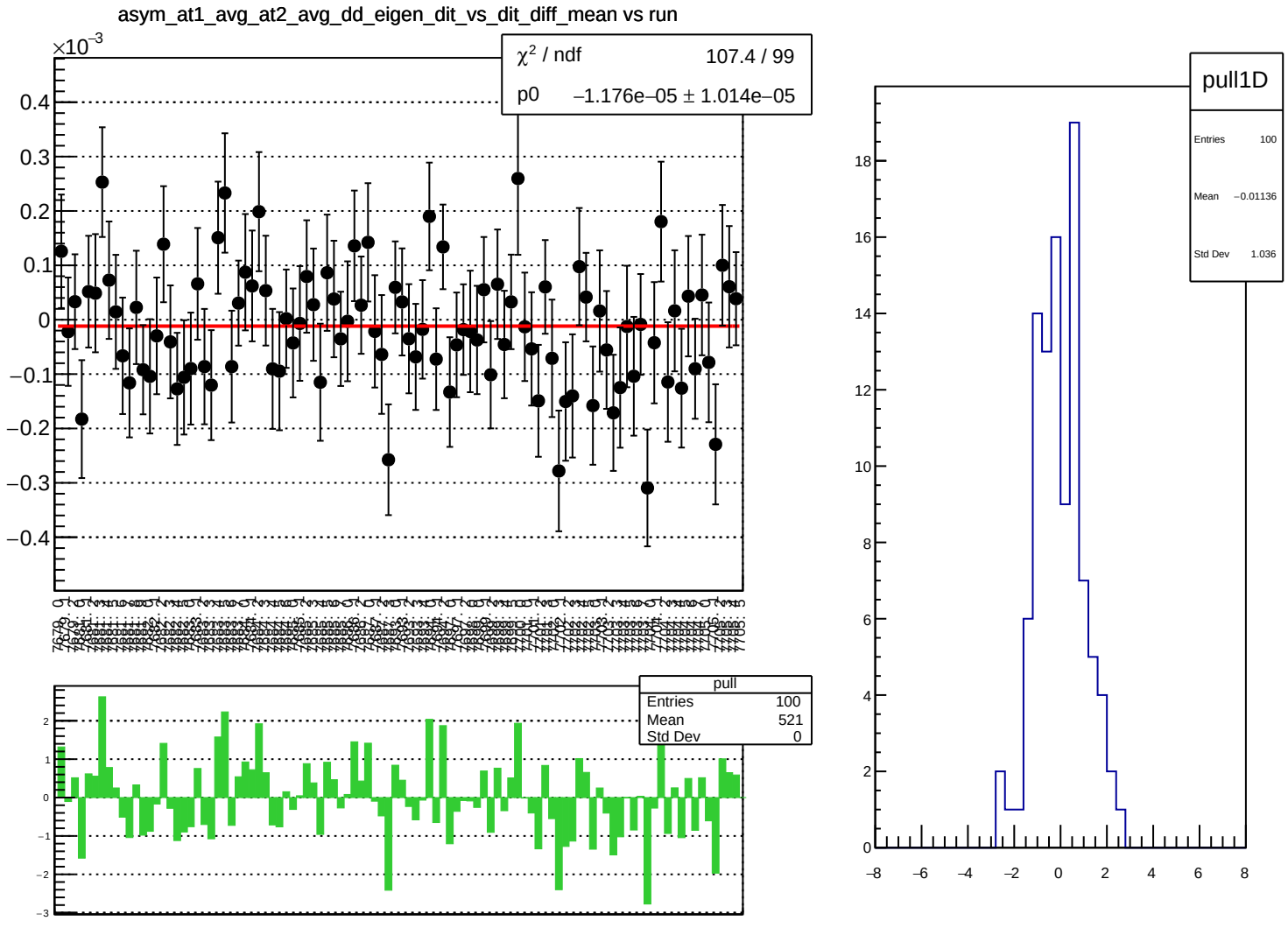

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.419e+06 / 99
p0 1.445e−10 ± 2.032e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

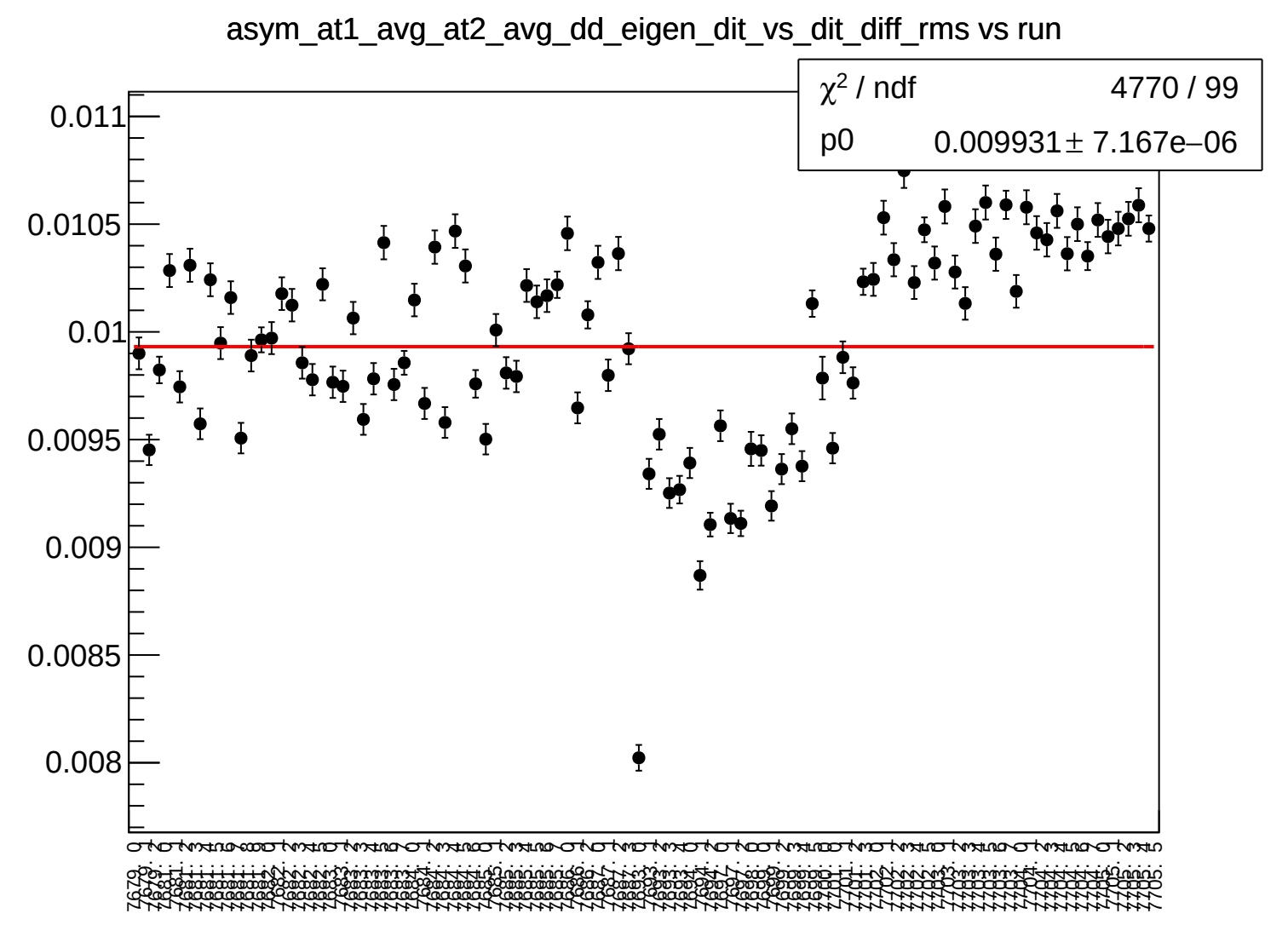

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.05 / 99
p0 0.08389 ± 0.09964
pull
Entries 100
Mean 153.2
Std Dev 0
pull1D
Entries 100
Mean 0.01908
Std Dev 0.9487

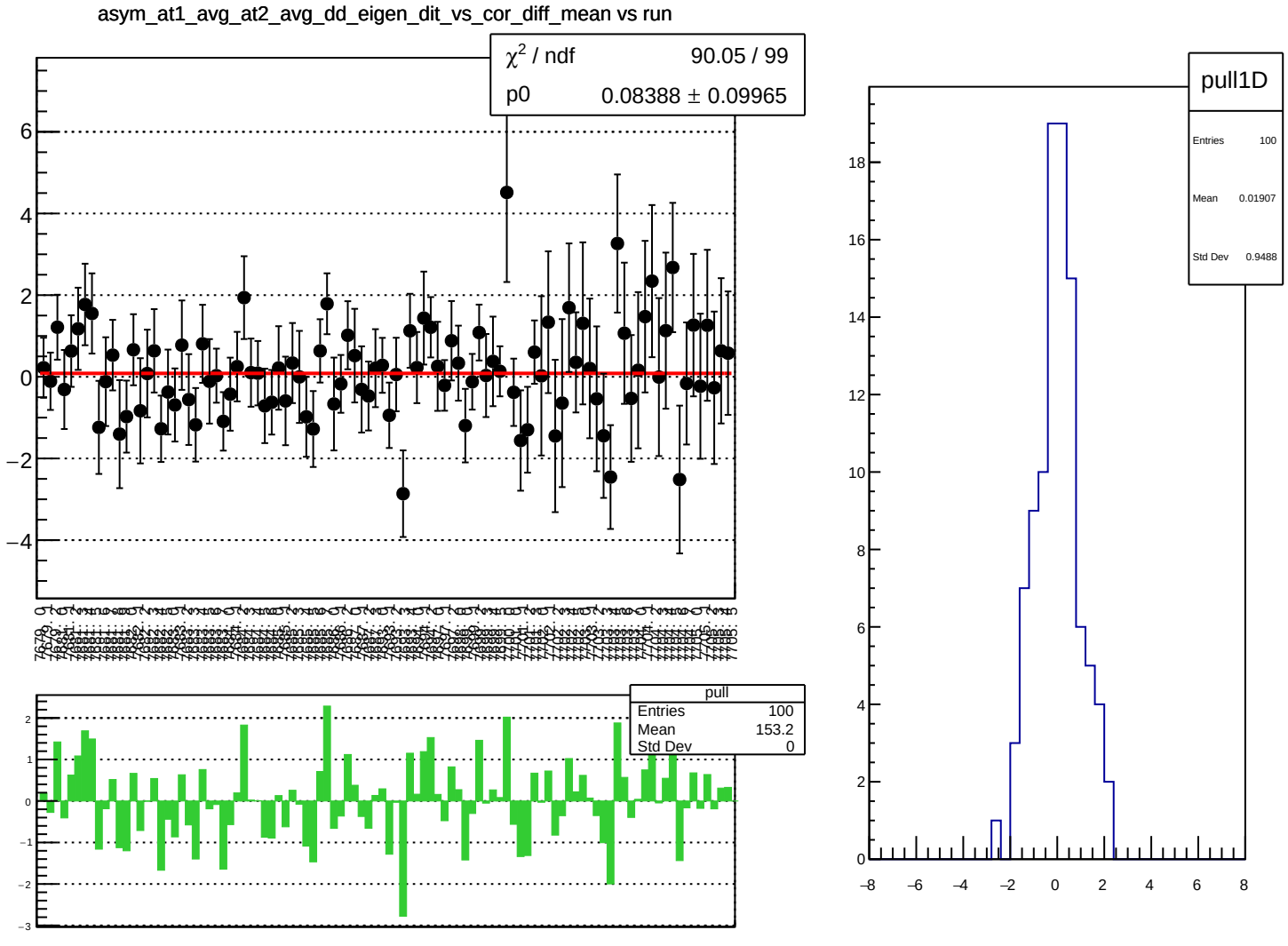

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.596e+05 / 99
p0 93.62 ± 0.07046
200
180
160
140
120
100
80
60

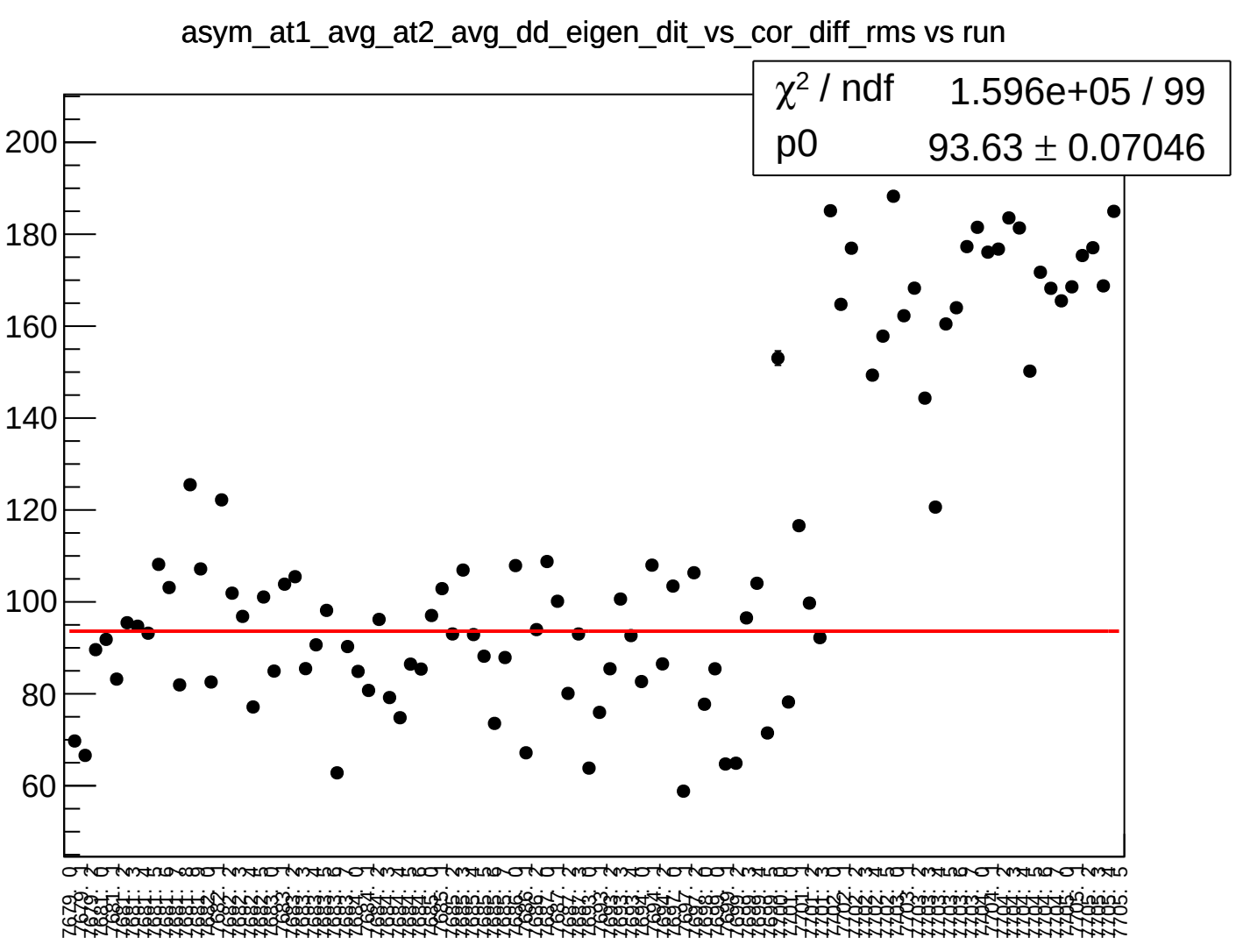

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.05 / 99
p0 0.08389 ± 0.09964
pull
Entries 100
Mean 153.2
Std Dev 0
pull1D
Entries 100
Mean 0.01908
Std Dev 0.9487

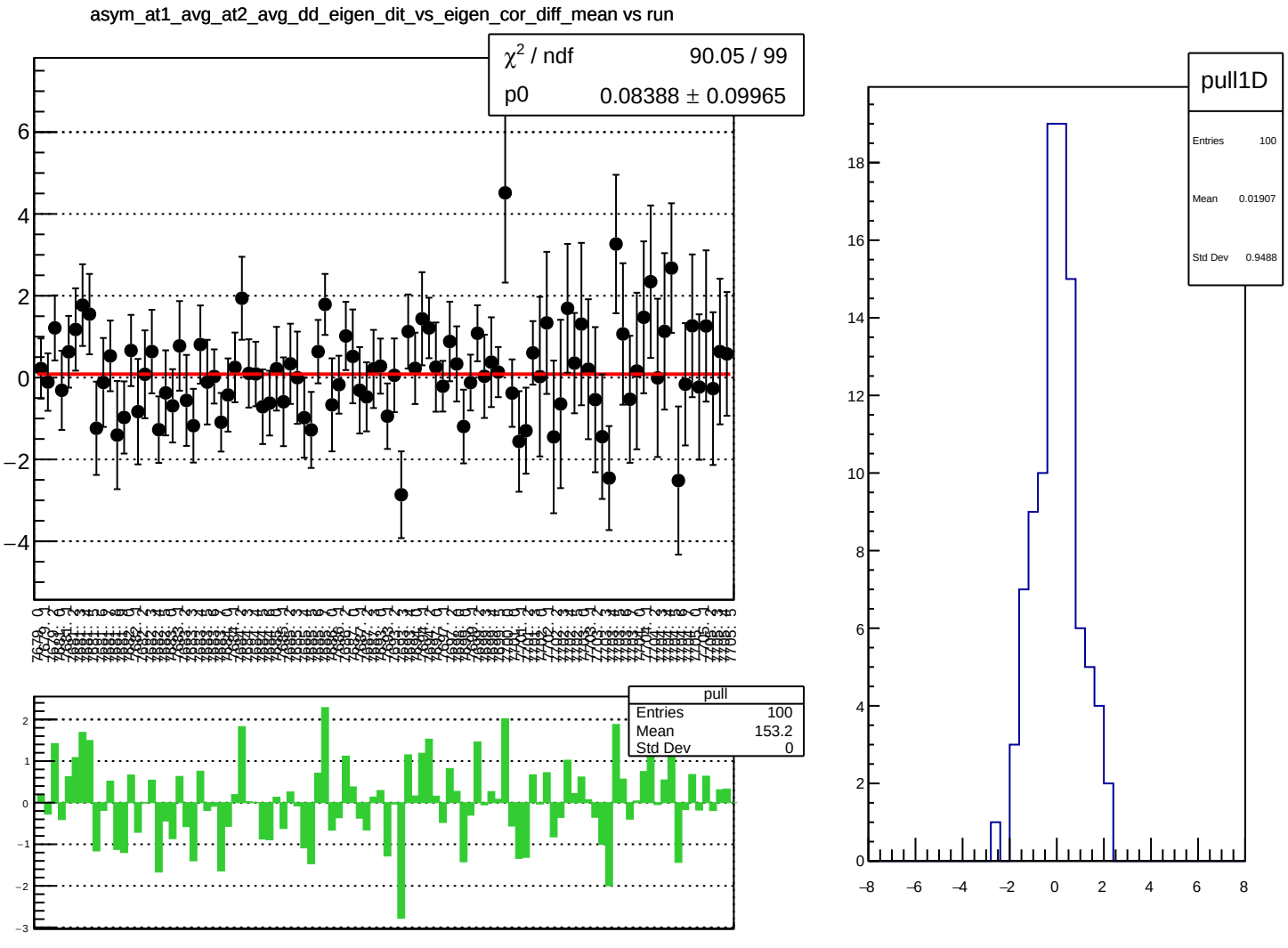

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.596e+05 / 99
p0 93.62 ± 0.07046
200
180
160
140
120
100
80
60

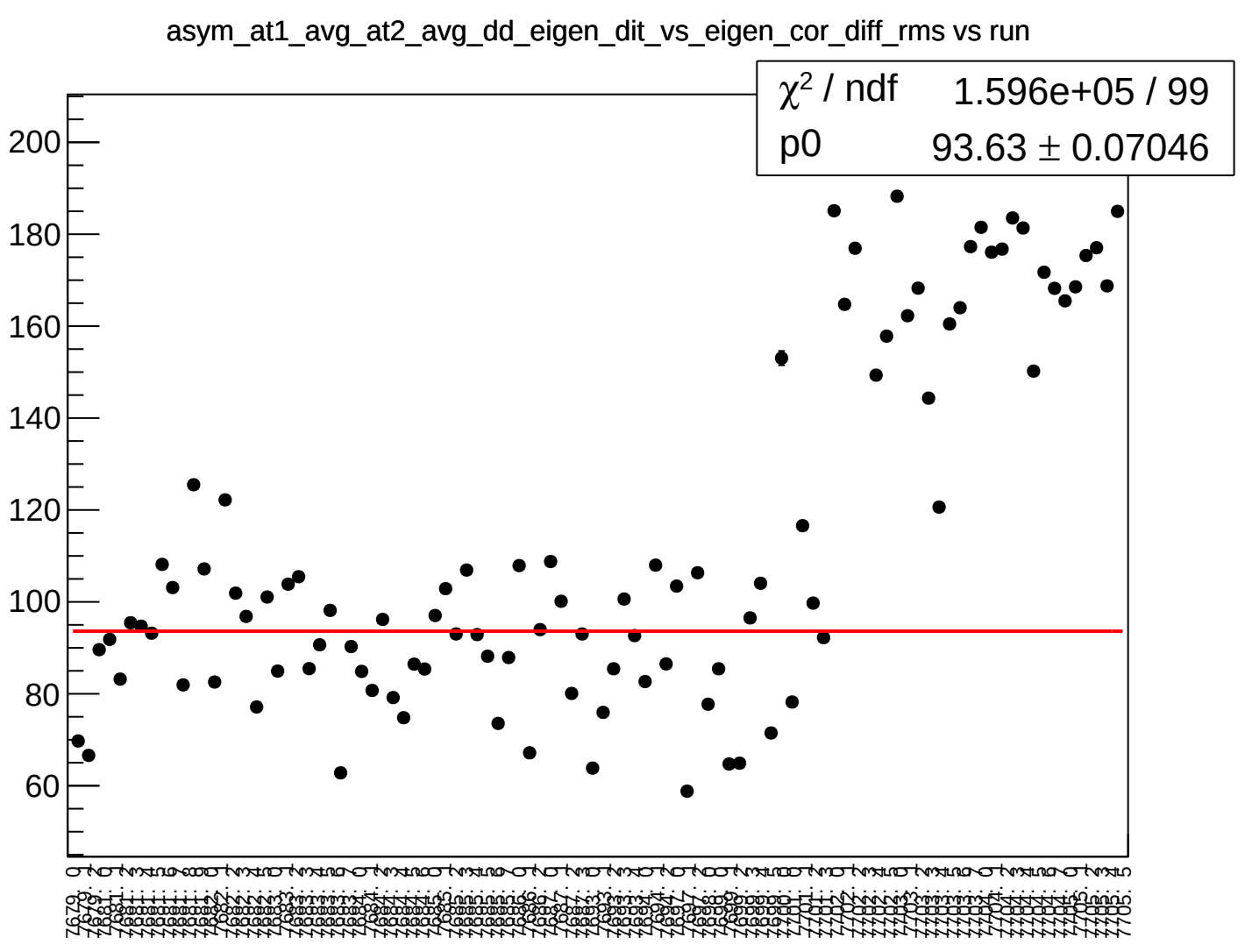

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 107.4 / 99
p0 −1.176e−05 ± 1.014e−05
pull
Entries 100
Mean 521
Std Dev 0
pull1D
Entries 100
Mean −0.01136
Std Dev 1.036

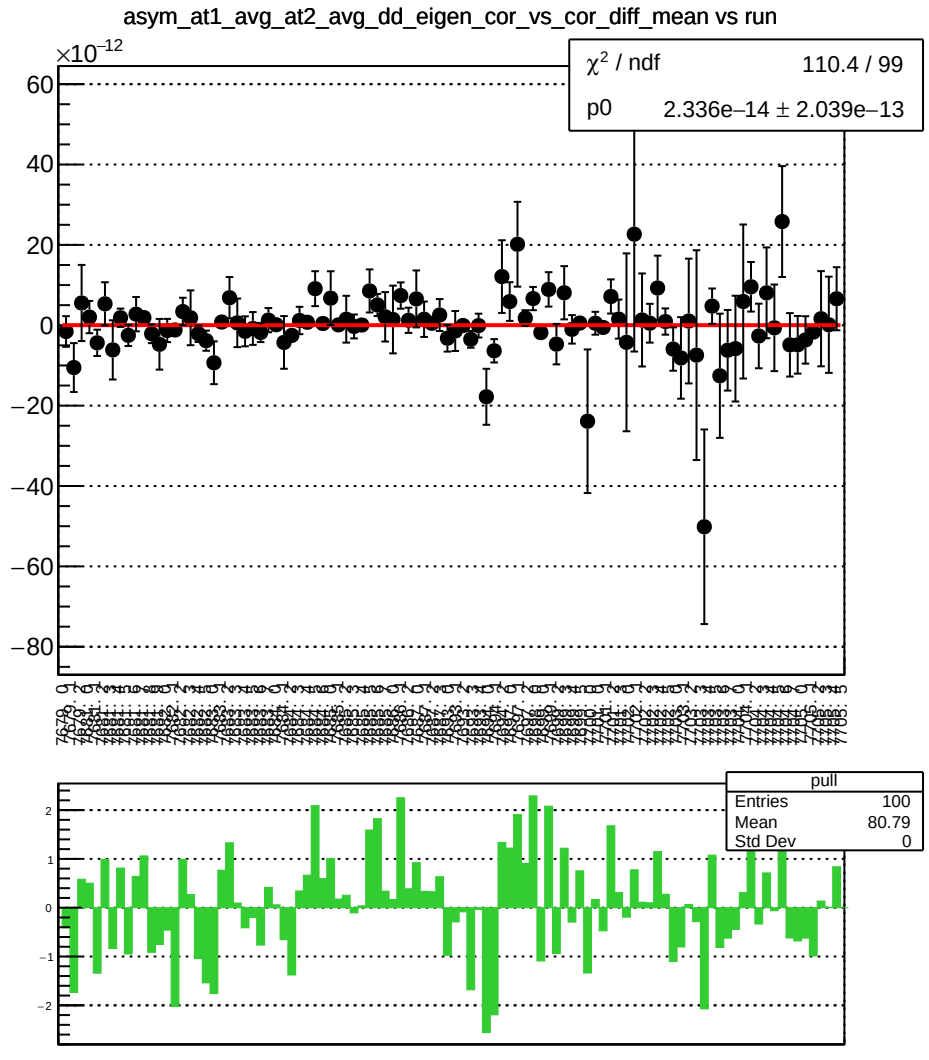

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4770 / 99
p0 0.009931 ± 7.167e−06
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008

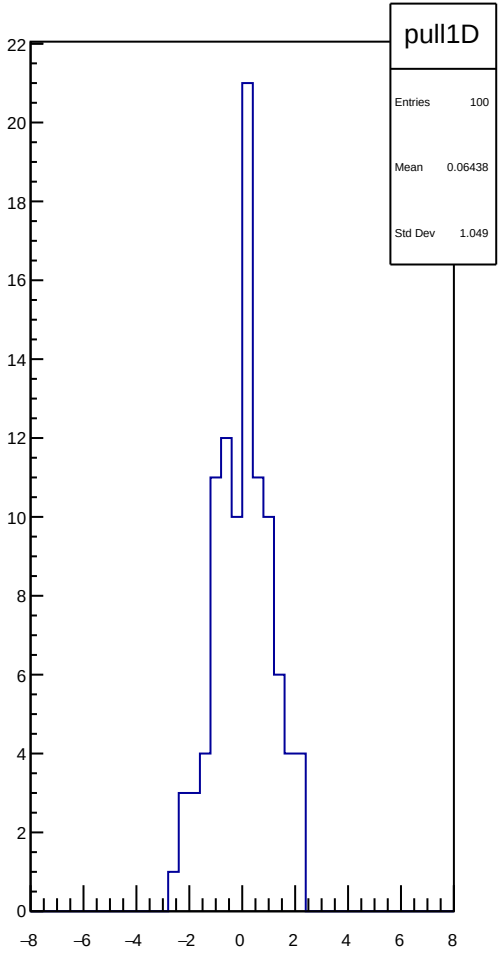

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.05 / 99
p0 0.08388 ± 0.09965
pull
Entries 100
Mean 153.2
Std Dev 0
pull1D
Entries 100
Mean 0.01907
Std Dev 0.9488

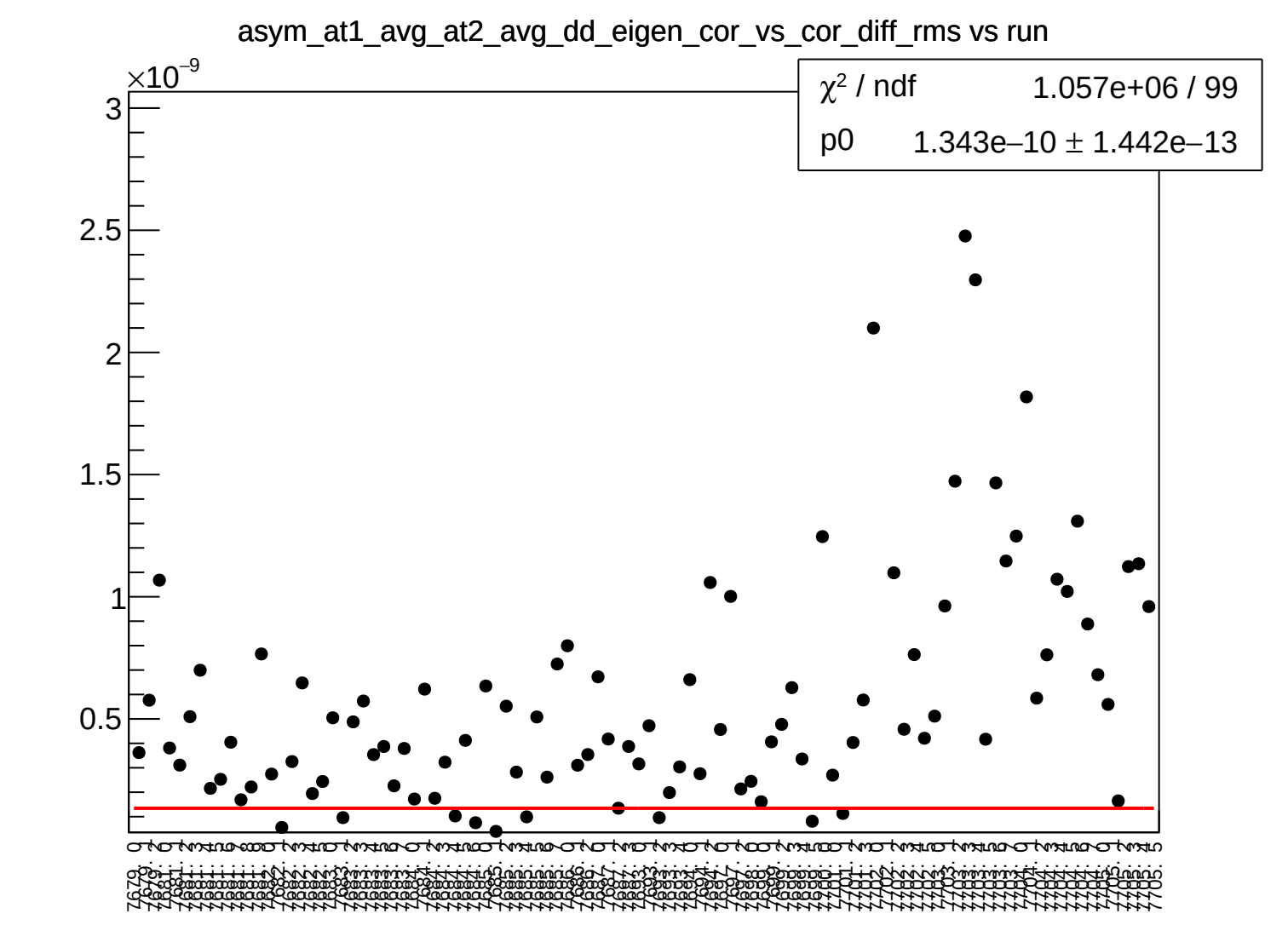

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.596e+05 / 99
p0 93.63 ± 0.07046
200
180
160
140
120
100
80
60

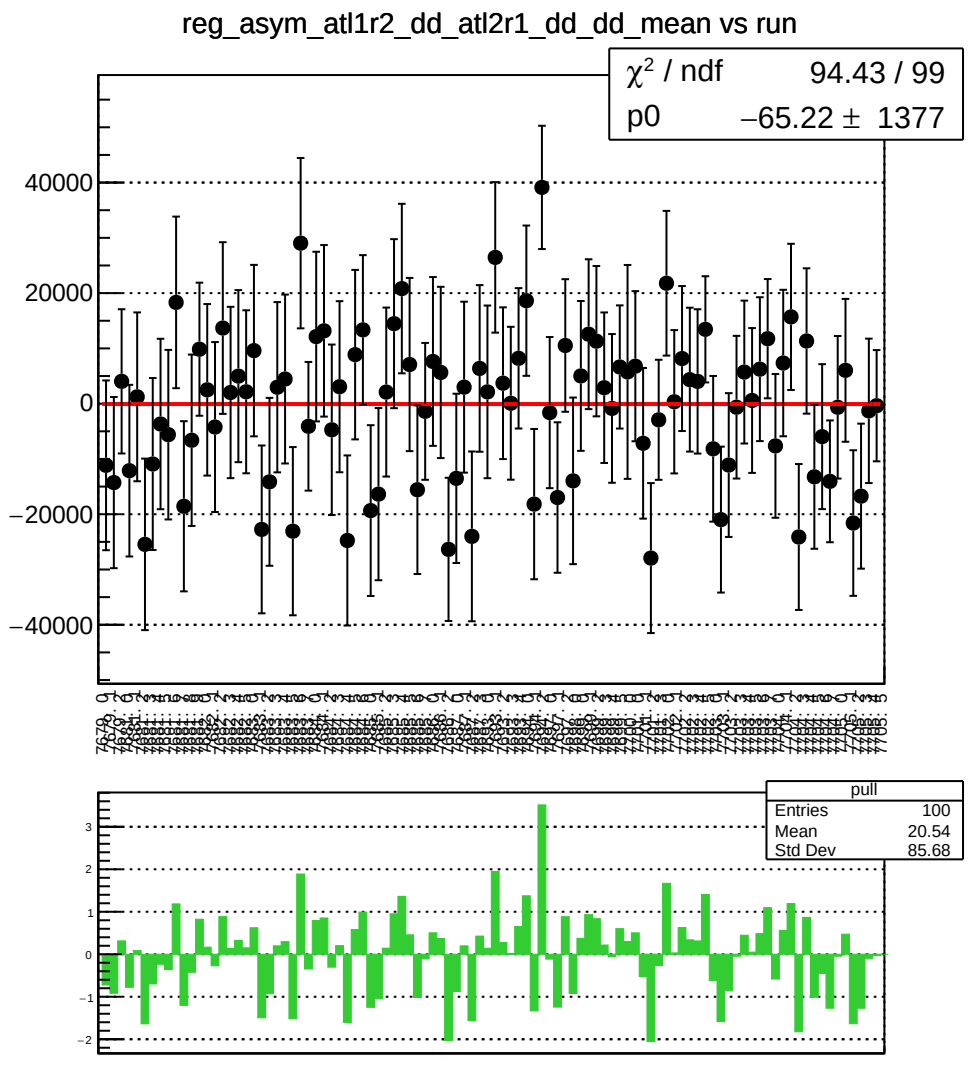

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.05 / 99
p0 0.08388 ± 0.09965
pull
Entries 100
Mean 153.2
Std Dev 0
pull1D
Entries 100
Mean 0.01907
Std Dev 0.9488

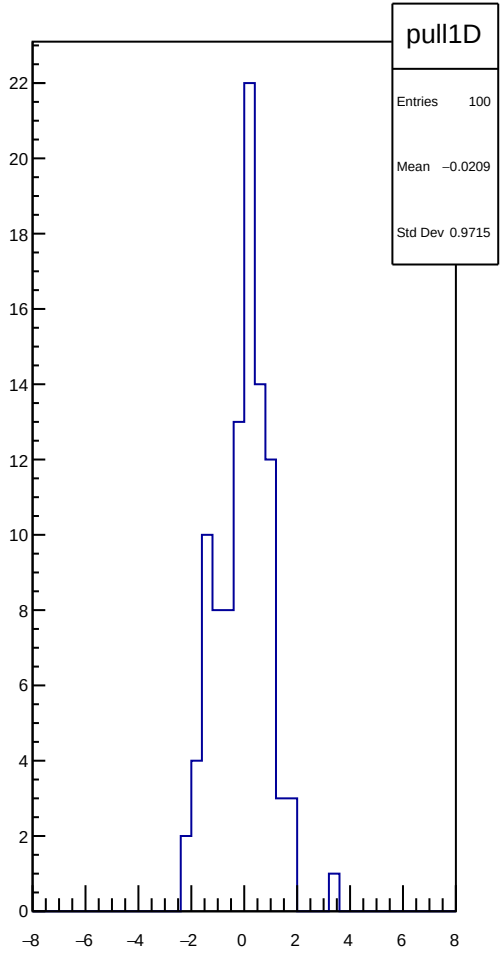

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.596e+05 / 99
p0 93.63 ± 0.07046
200
180
160
140
120
100
80
60

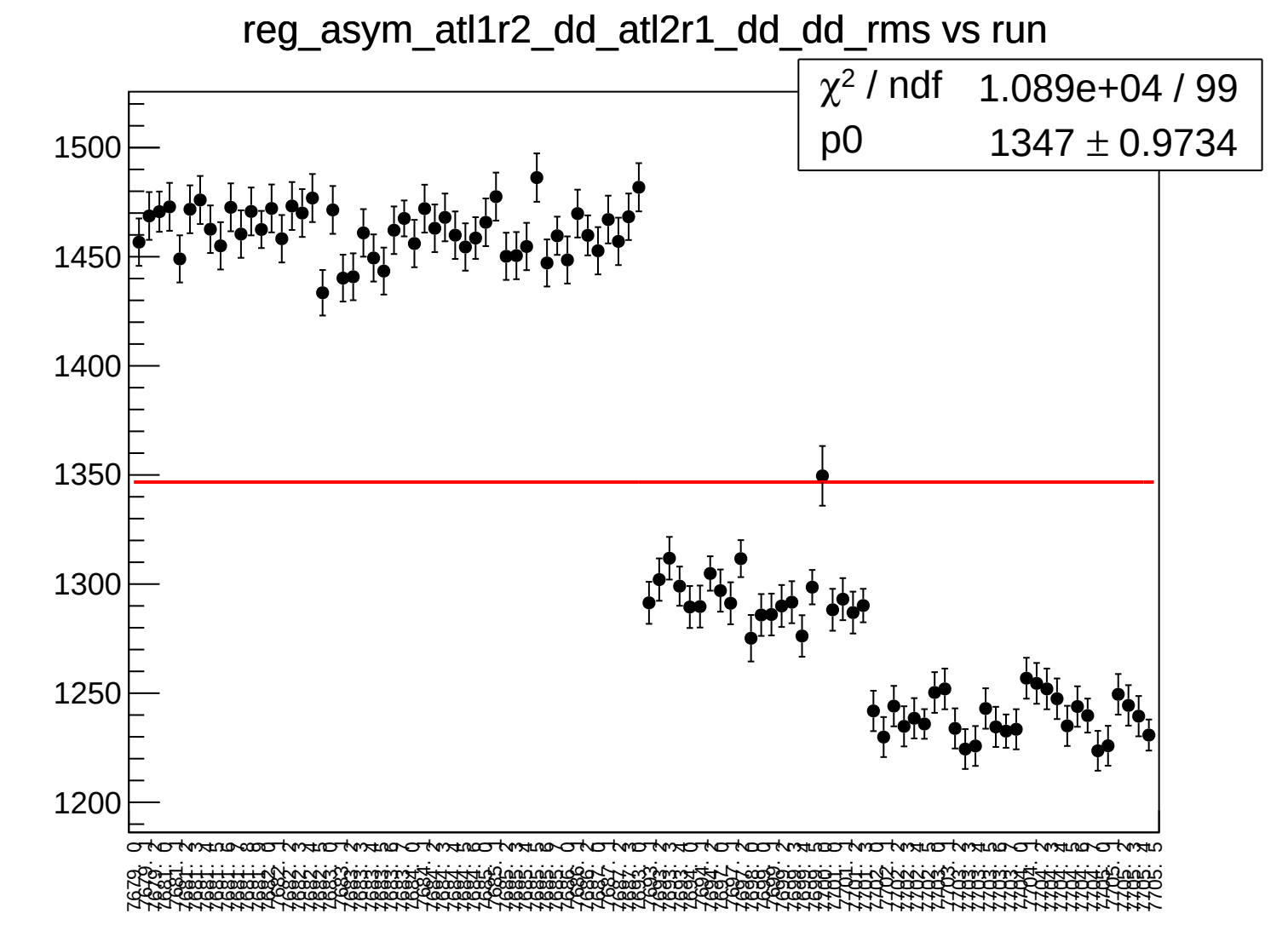

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 110.4 / 99
p0 2.336e−14 ± 2.039e−13
pull
Entries 100
Mean 80.79
Std Dev 0

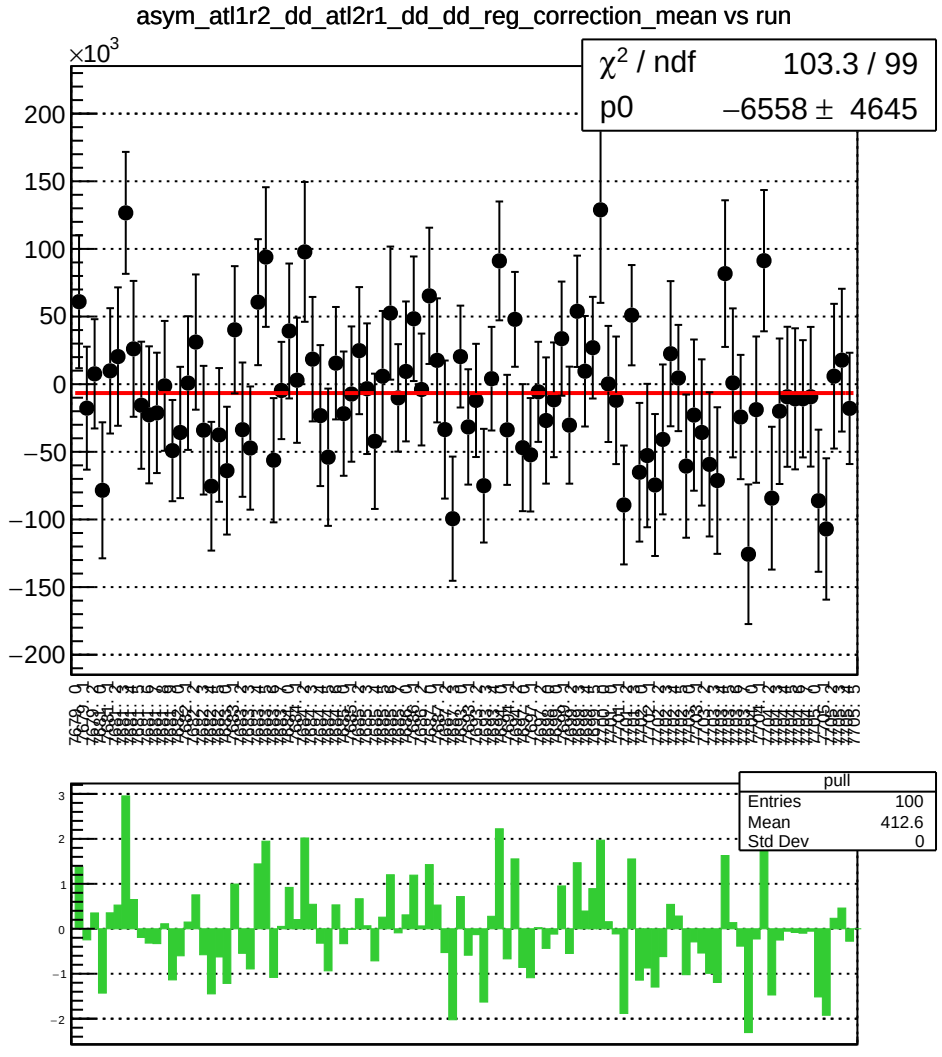

pull1D
Entries 100
Mean 0.06438
Std Dev 1.049

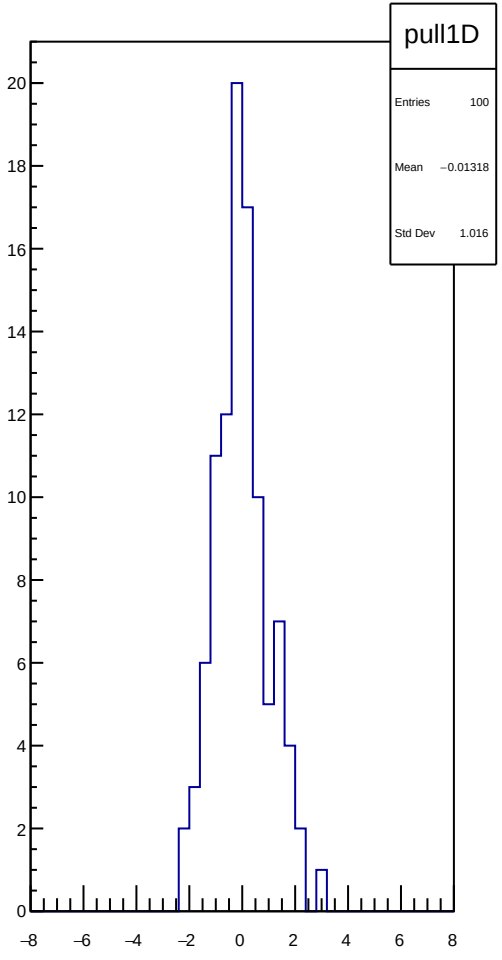

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
3
2.5
2
1.5
1
0.5
χ² / ndf 1.057e+06 / 99
p0 1.343e−10 ± 1.442e−13

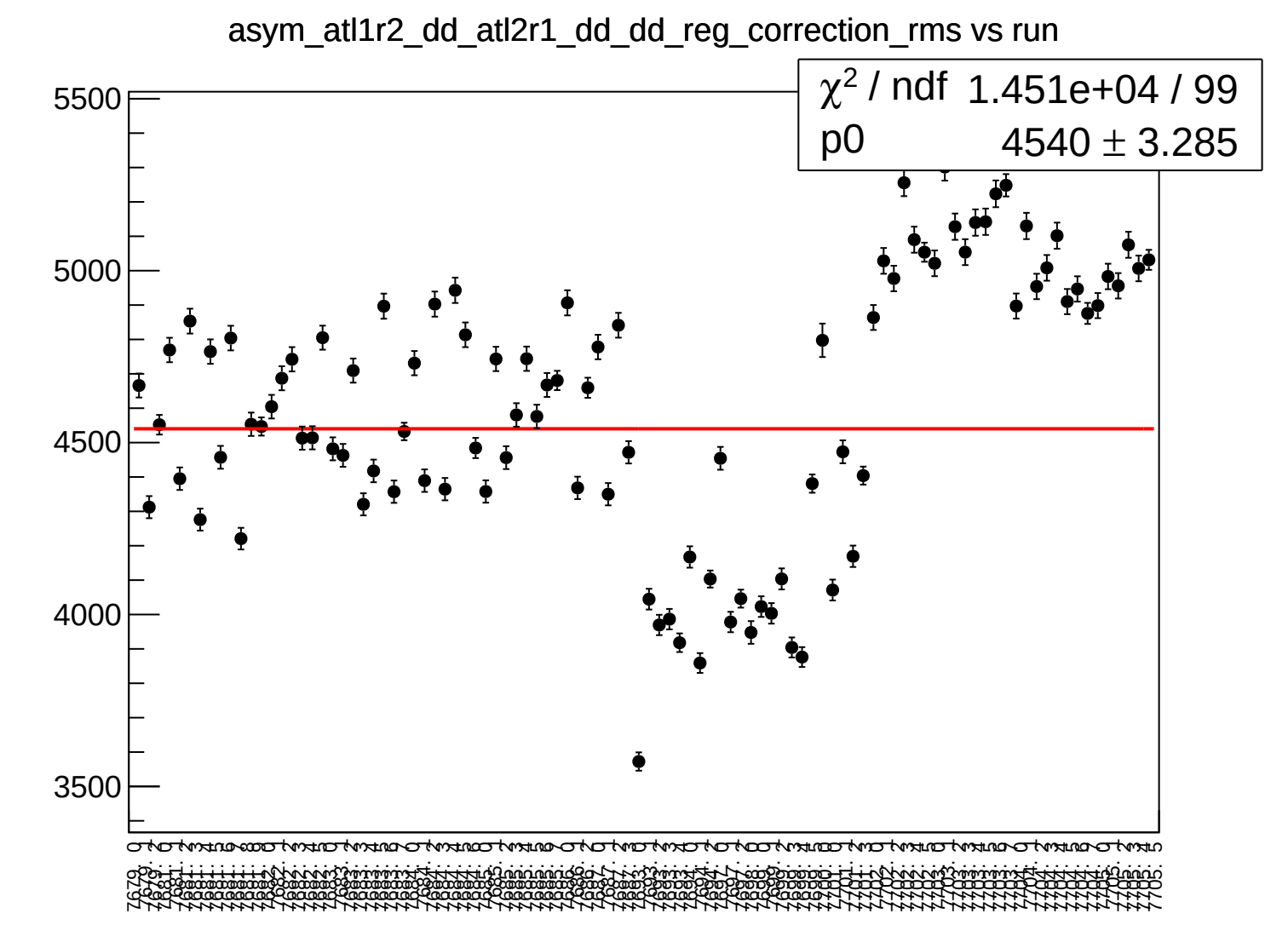

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 94.43 / 99
p0 −65.22 ± 1377
40000
20000
0
−20000
−40000
pull
Entries 100
Mean 20.54
Std Dev 85.68
3
2
1
0
−1
−2

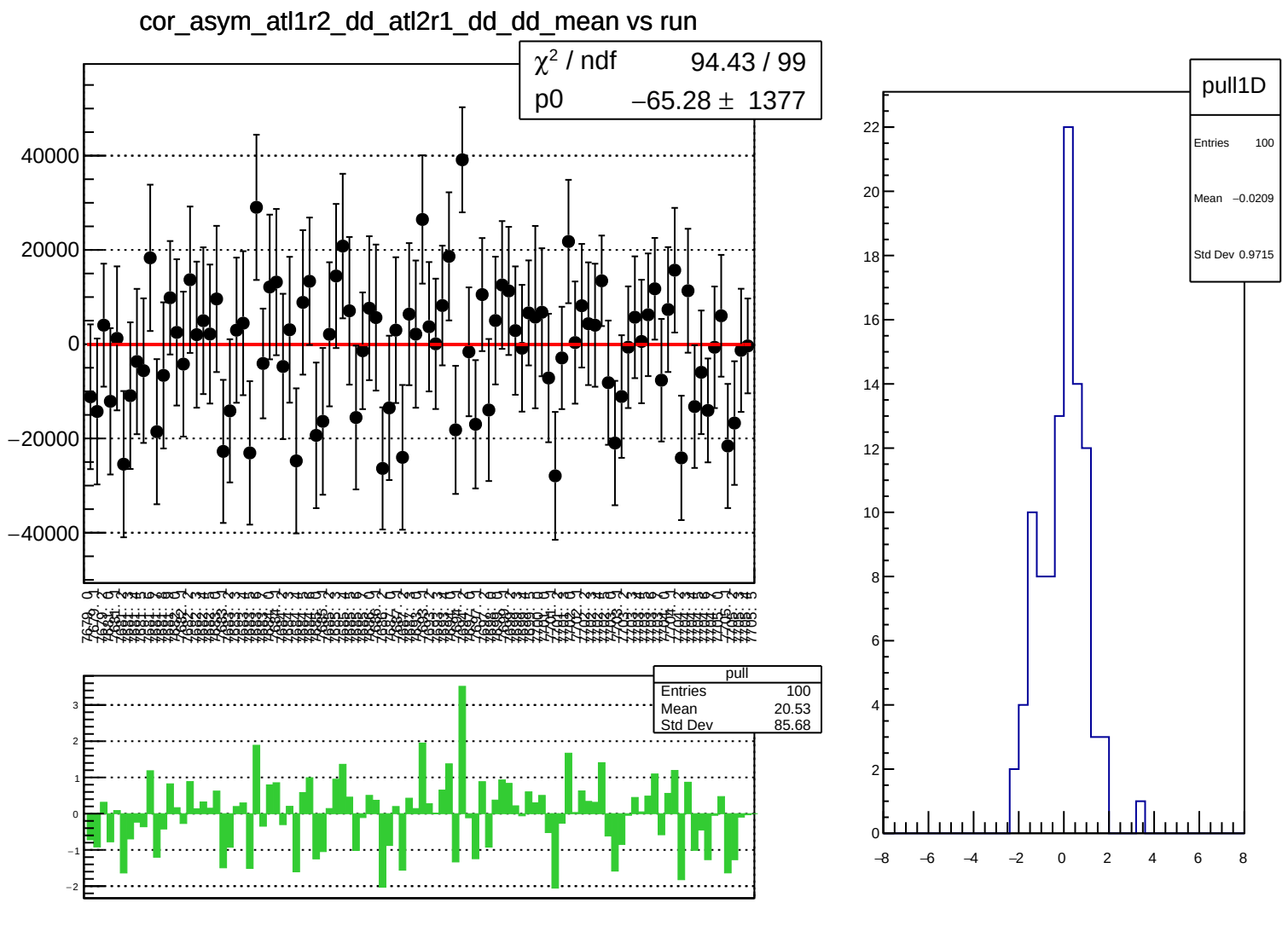

pull1D
Entries 100
Mean −0.0209
Std Dev 0.9715
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

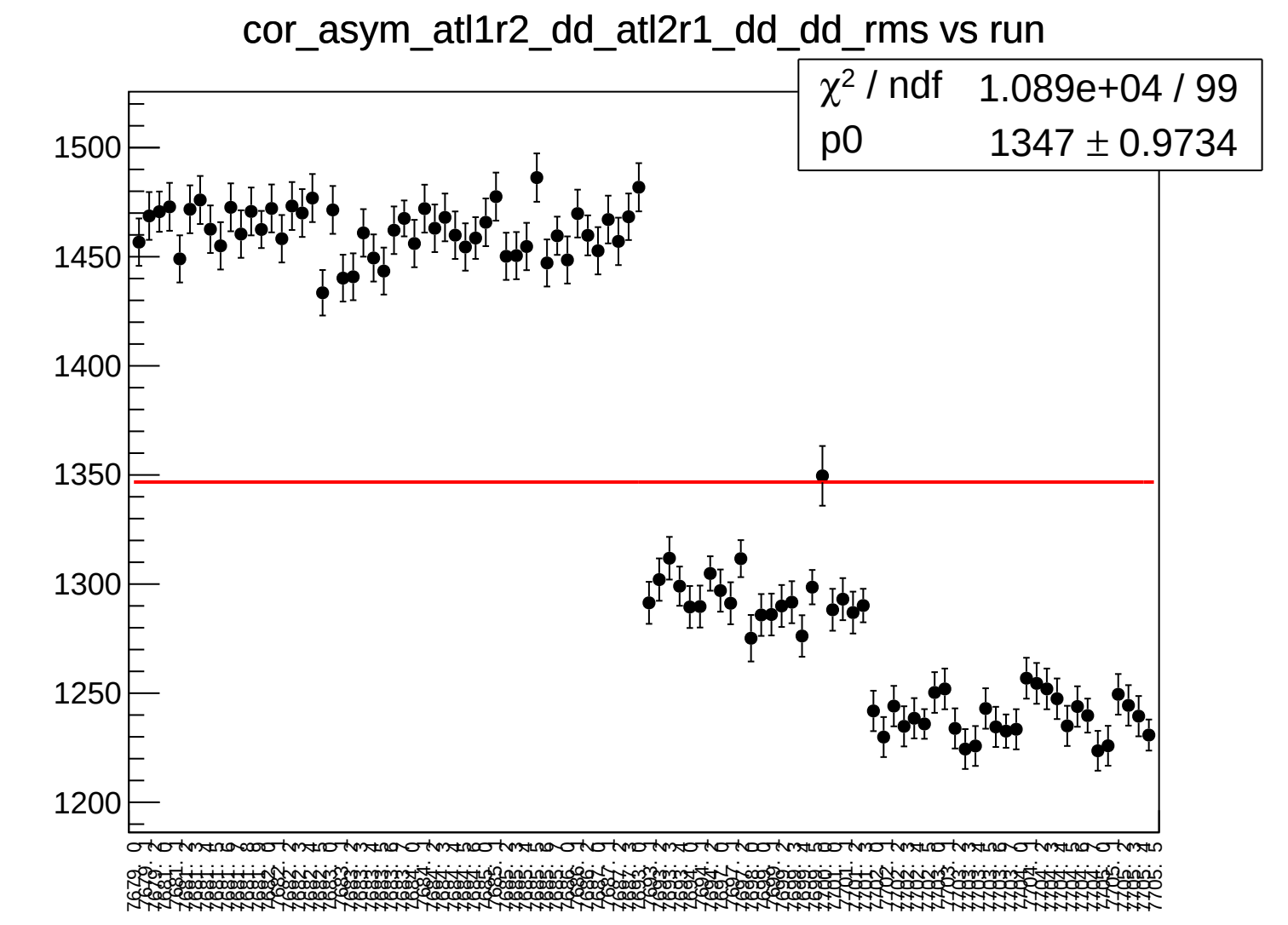

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 1.089e+04 / 99
p0 1347 ± 0.9734
1500
1450
1400
1350
1300
1250
1200

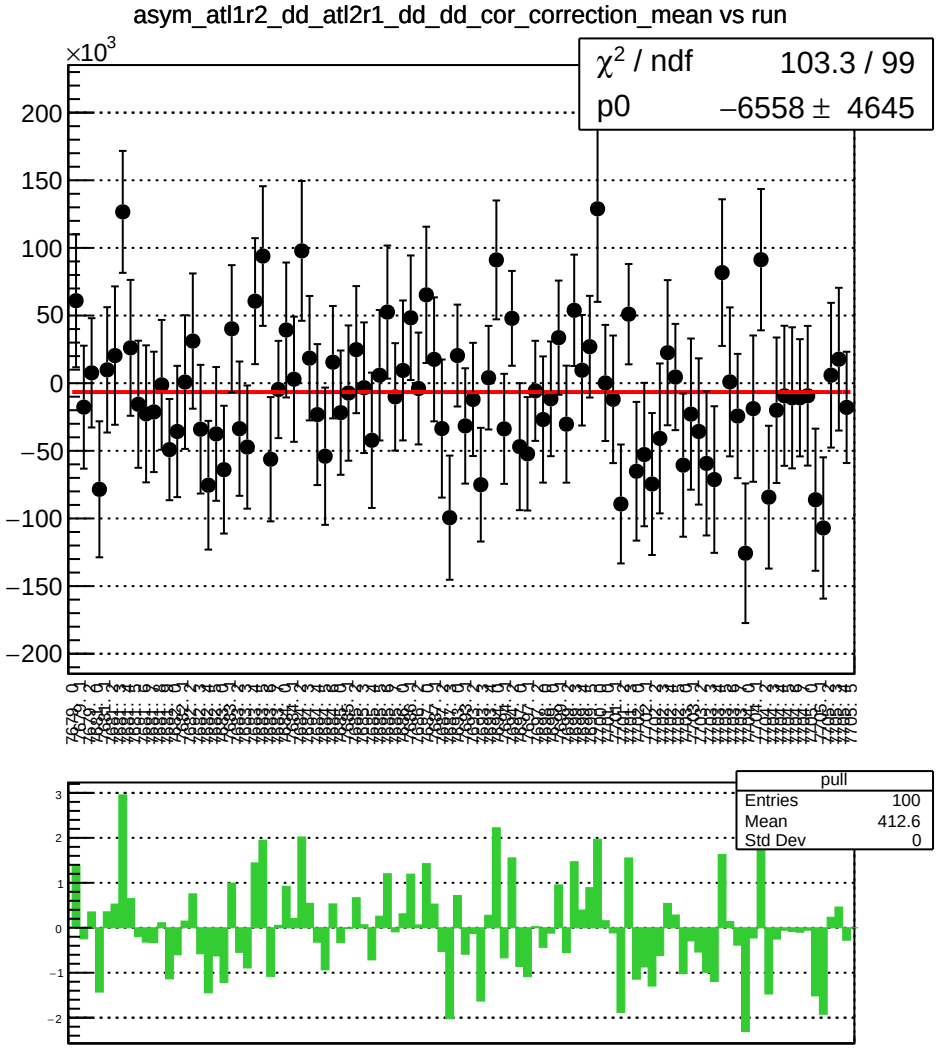

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 103.3 / 99
p0 −6558 ± 4645
pull
Entries 100
Mean 412.6
Std Dev 0

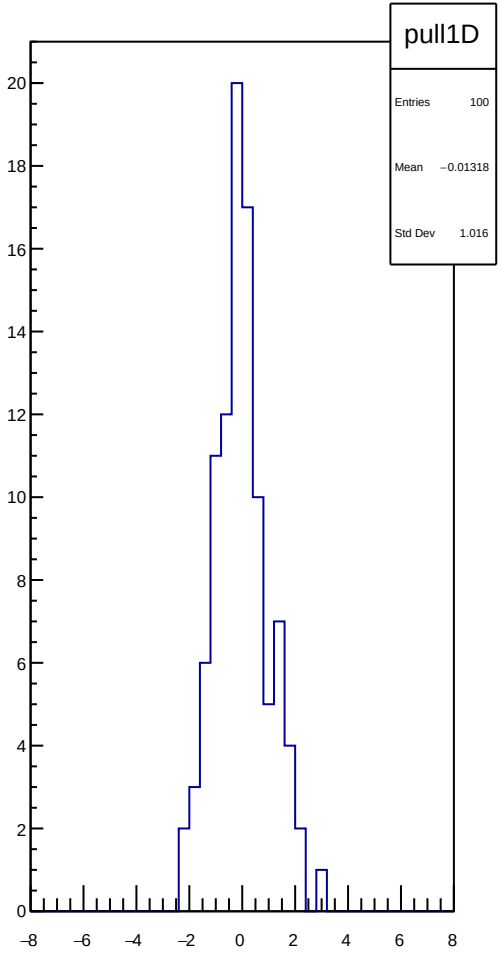

pull1D
Entries 100
Mean −0.01318
Std Dev 1.016

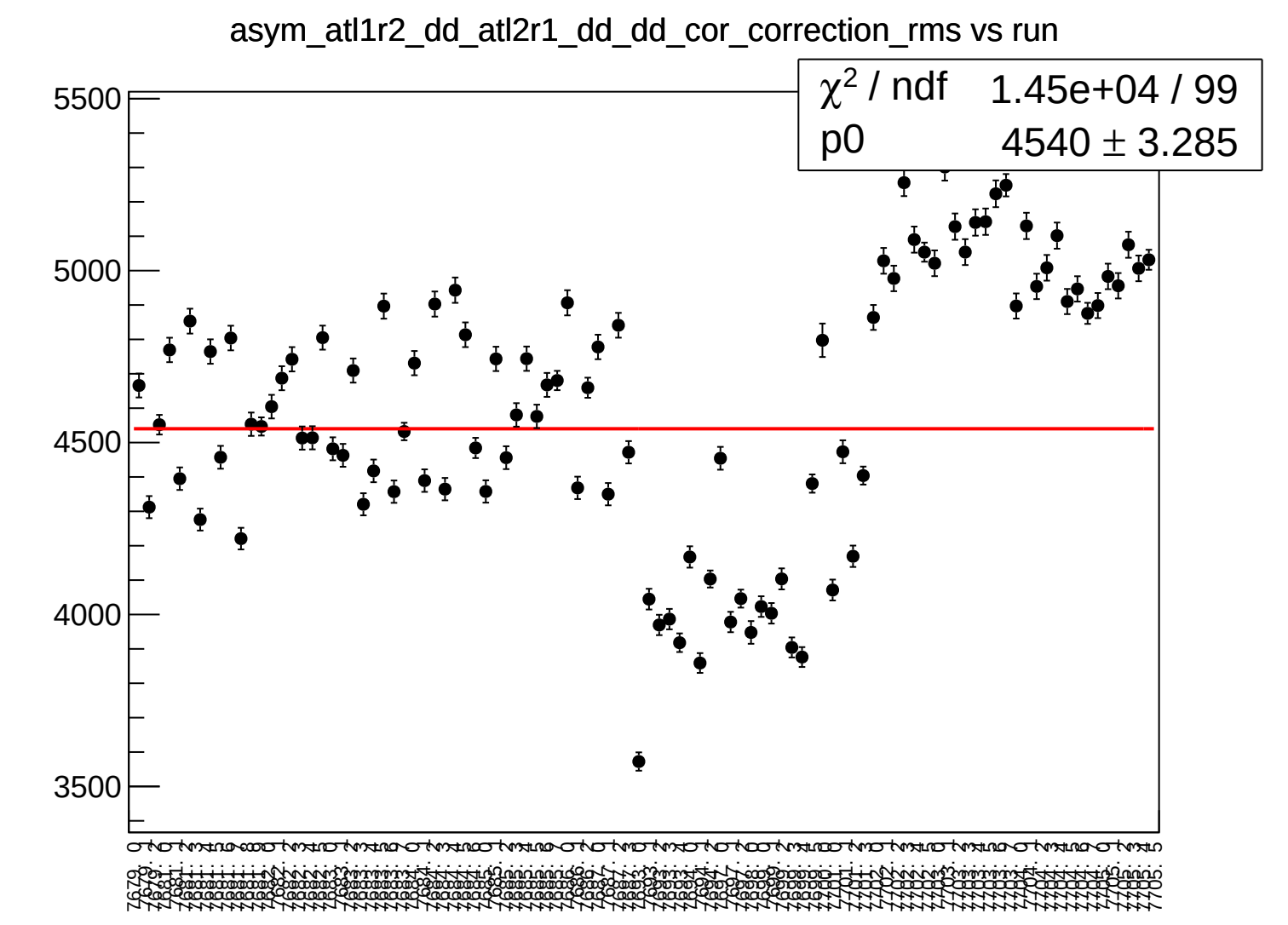

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 1.451e+04 / 99
p0 4540 ± 3.285
5500
5000
4500
4000
3500

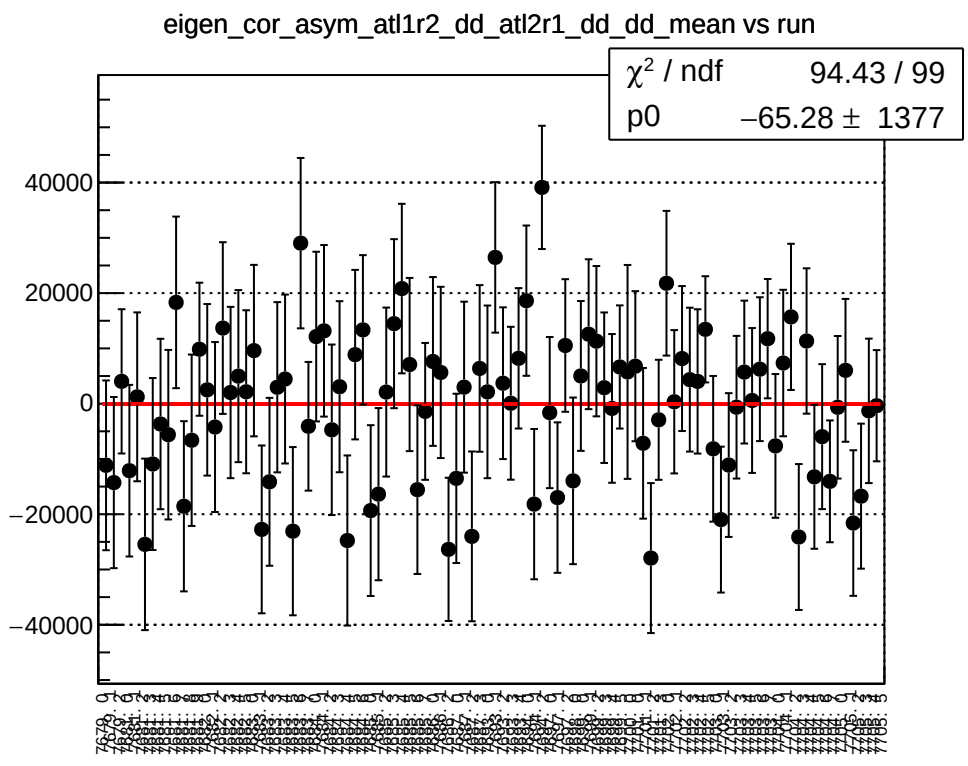

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 94.43 / 99
p0 −65.28 ± 1377
40000
20000
0
−20000
−40000
pull
Entries 100
Mean 20.53
Std Dev 85.68
3
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.0209
Std Dev 0.9715
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

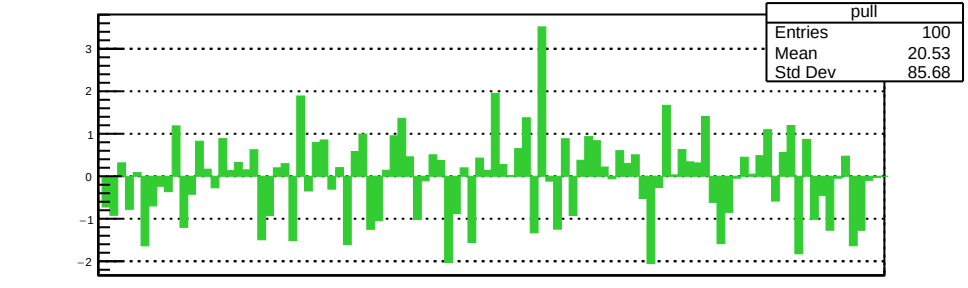

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 1.089e+04 / 99
p0 1347 ± 0.9734
1500
1450
1400
1350
1300
1250
1200

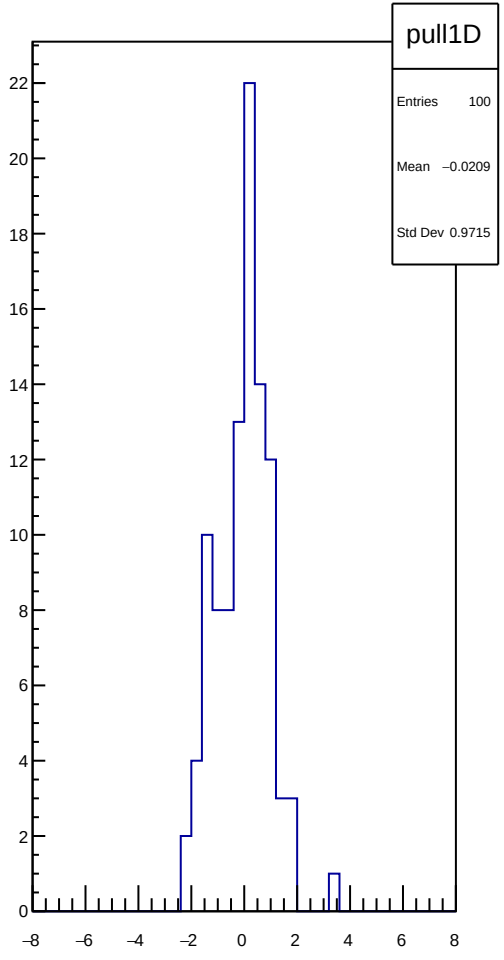

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 103.3 / 99
p0 −6558 ± 4645
pull
Entries 100
Mean 412.6
Std Dev 0

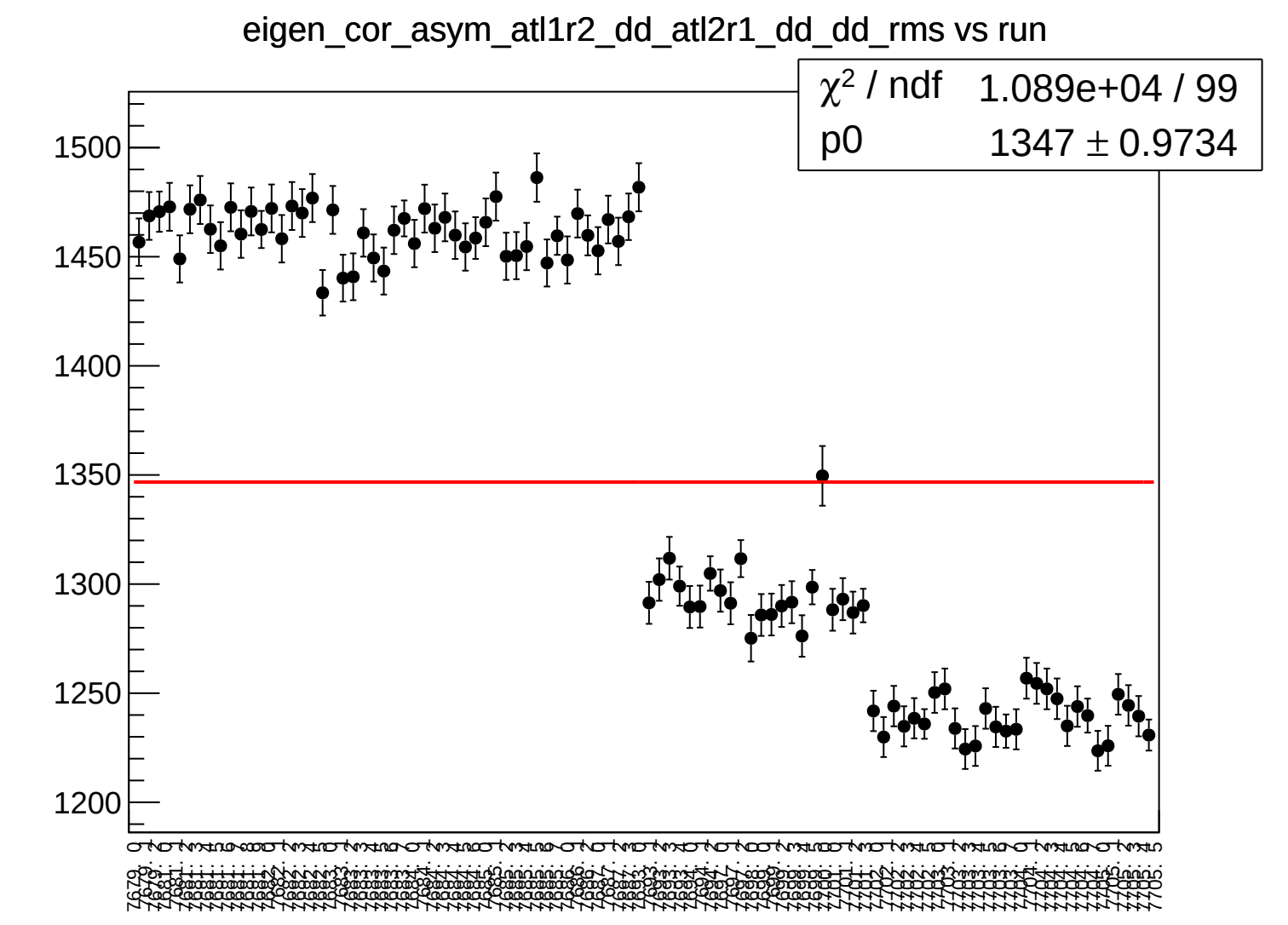

pull1D
Entries 100
Mean −0.01318
Std Dev 1.016

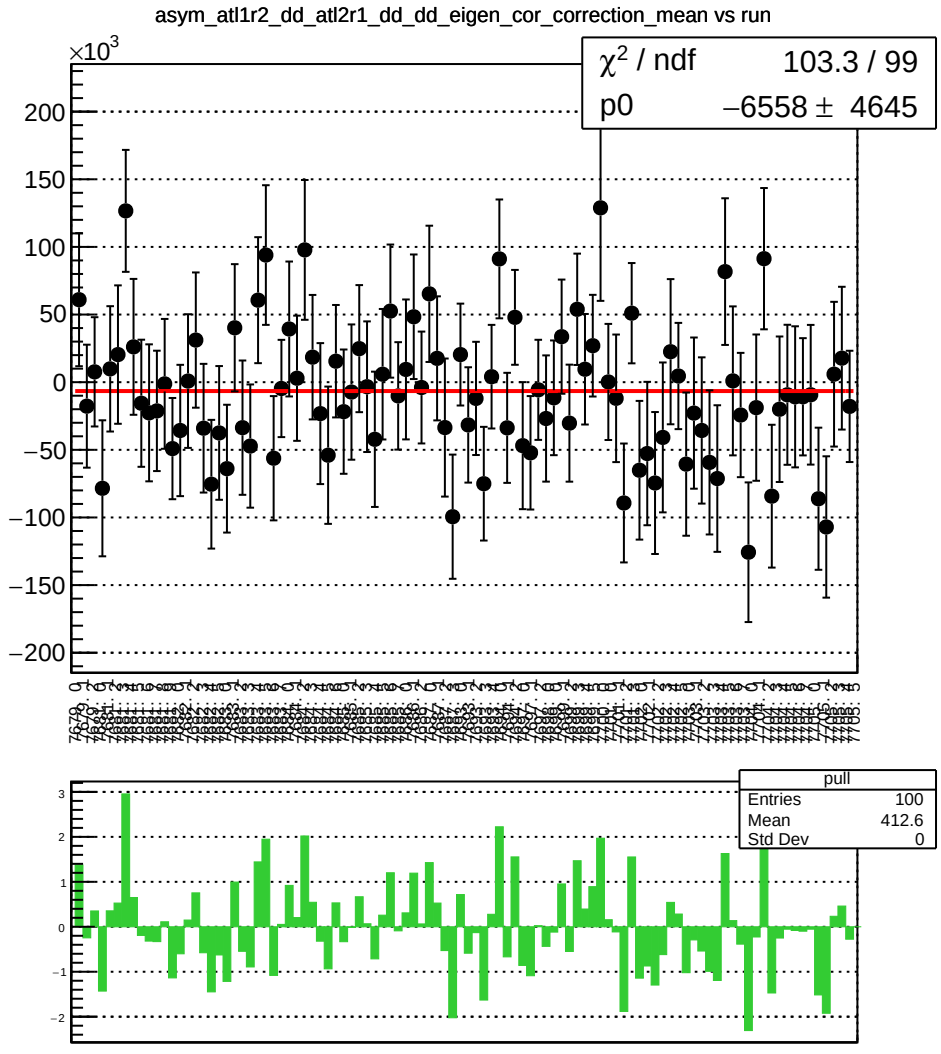

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 1.45e+04 / 99
p0 4540 ± 3.285
5500
5000
4500
4000
3500

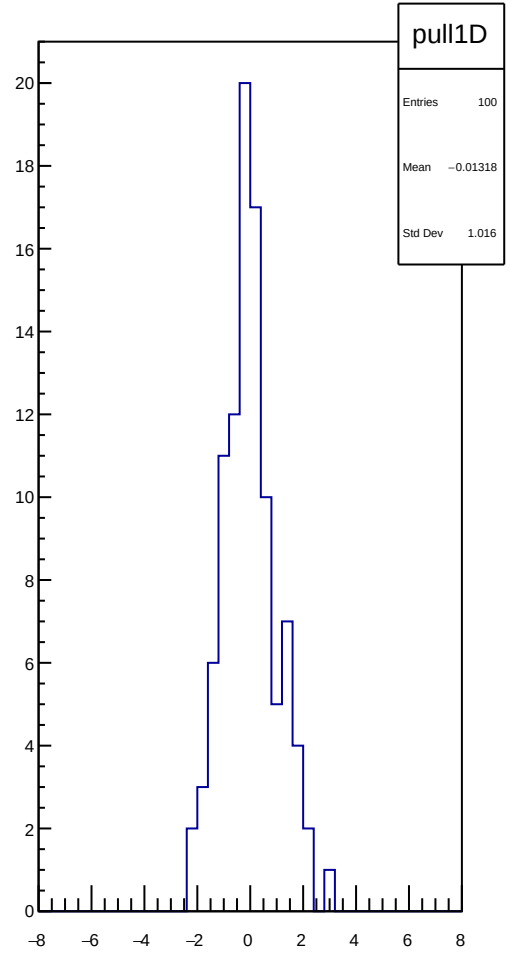

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 94.43 / 99
p0 −65.28 ± 1377
40000
20000
0
−20000
−40000

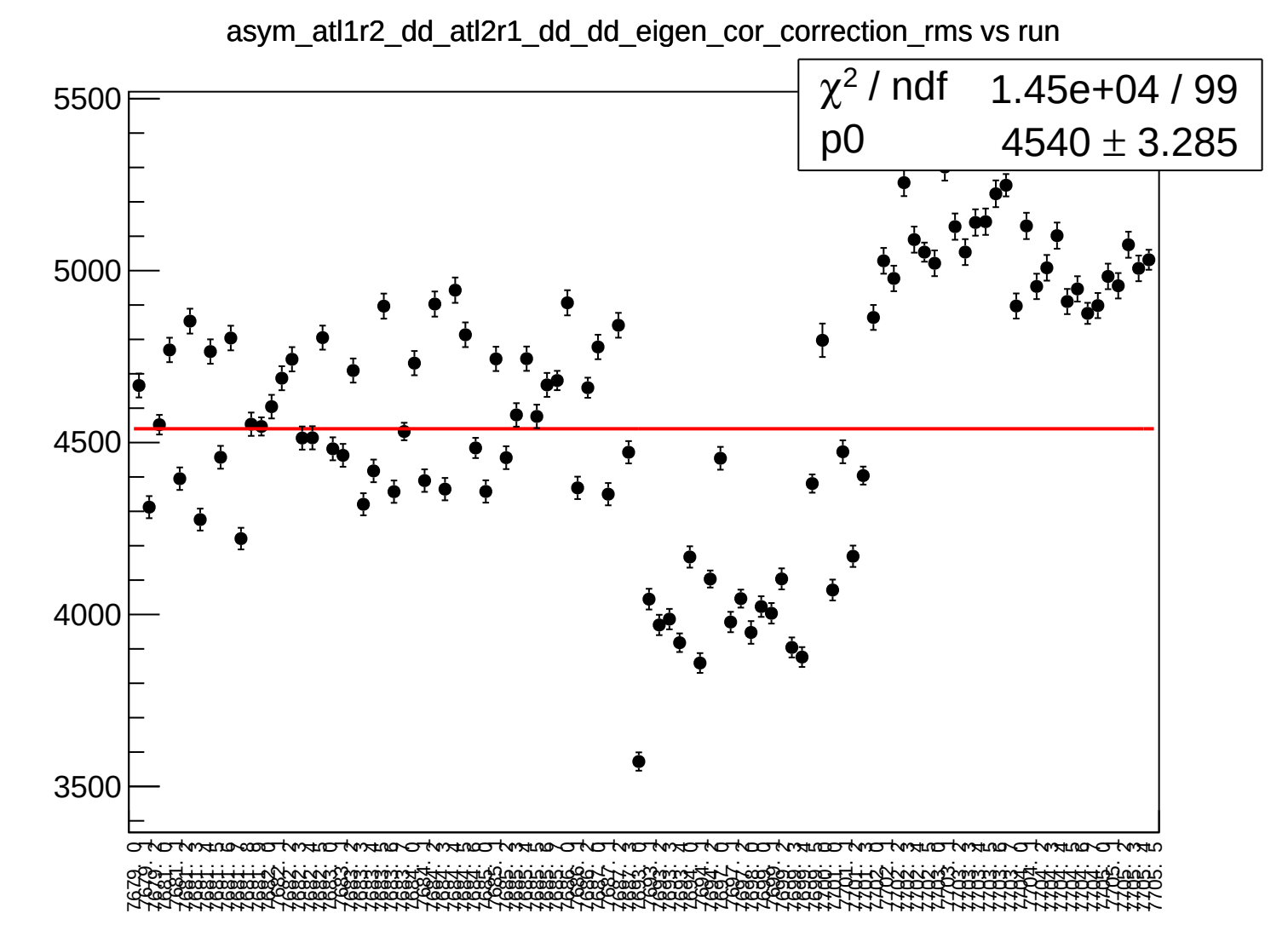

pull
Entries 100
Mean 20.53
Std Dev 85.68
3
2
1
0
−1
−2

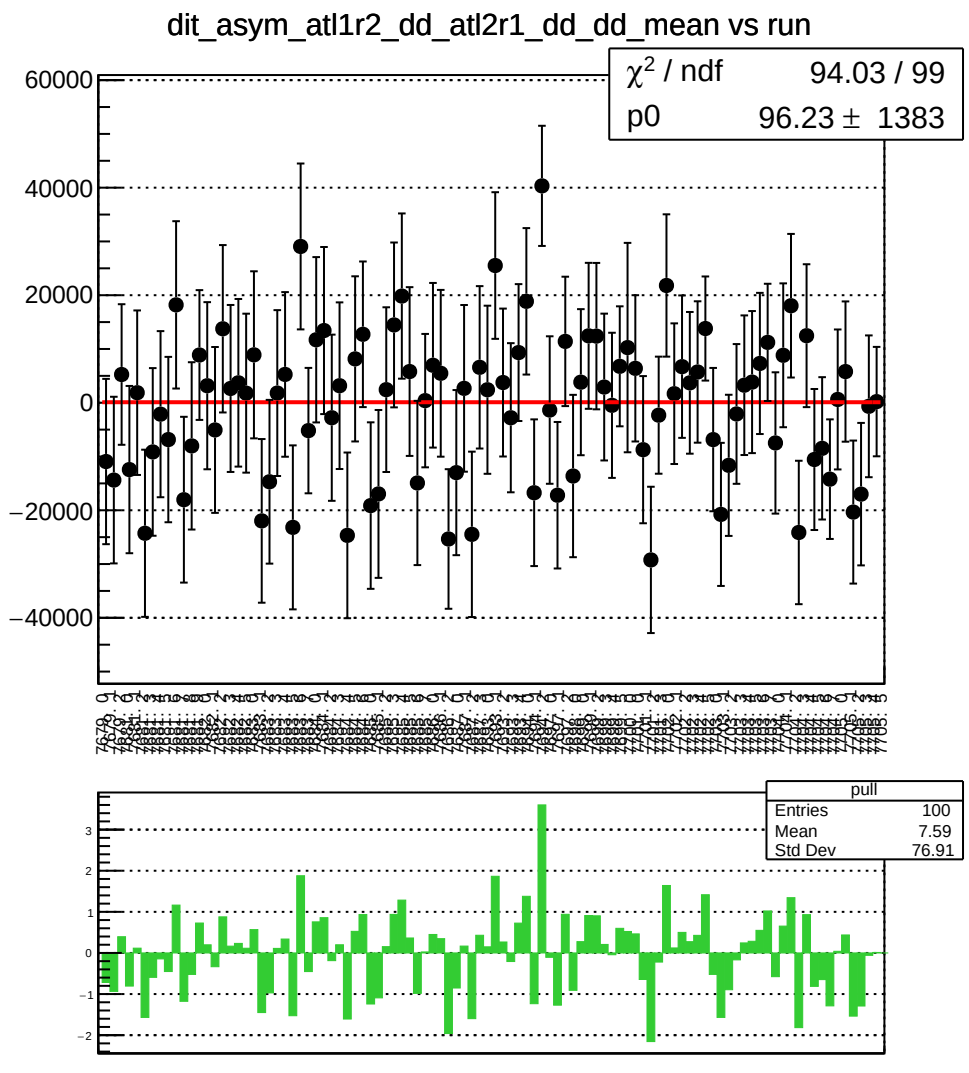

pull1D
Entries 100
Mean −0.0209
Std Dev 0.9715
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

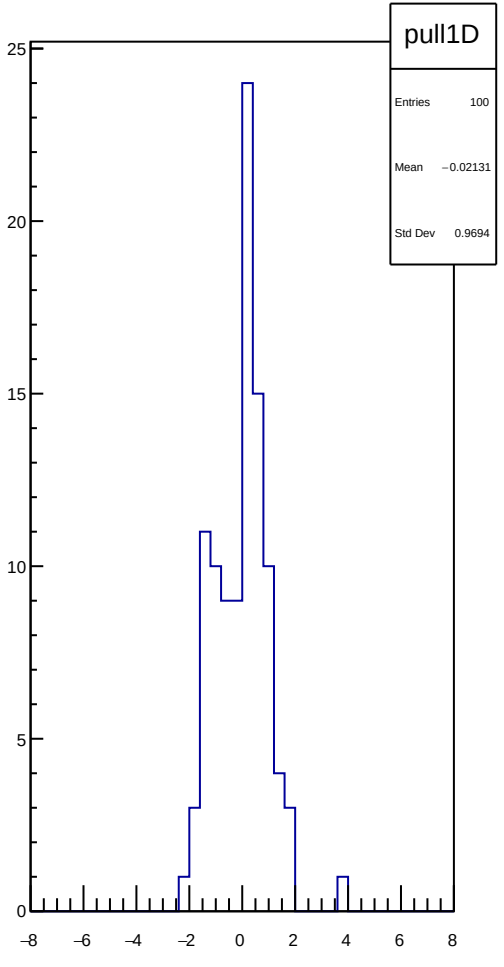

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 1.089e+04 / 99
p0 1347 ± 0.9734
1500
1450
1400
1350
1300
1250
1200

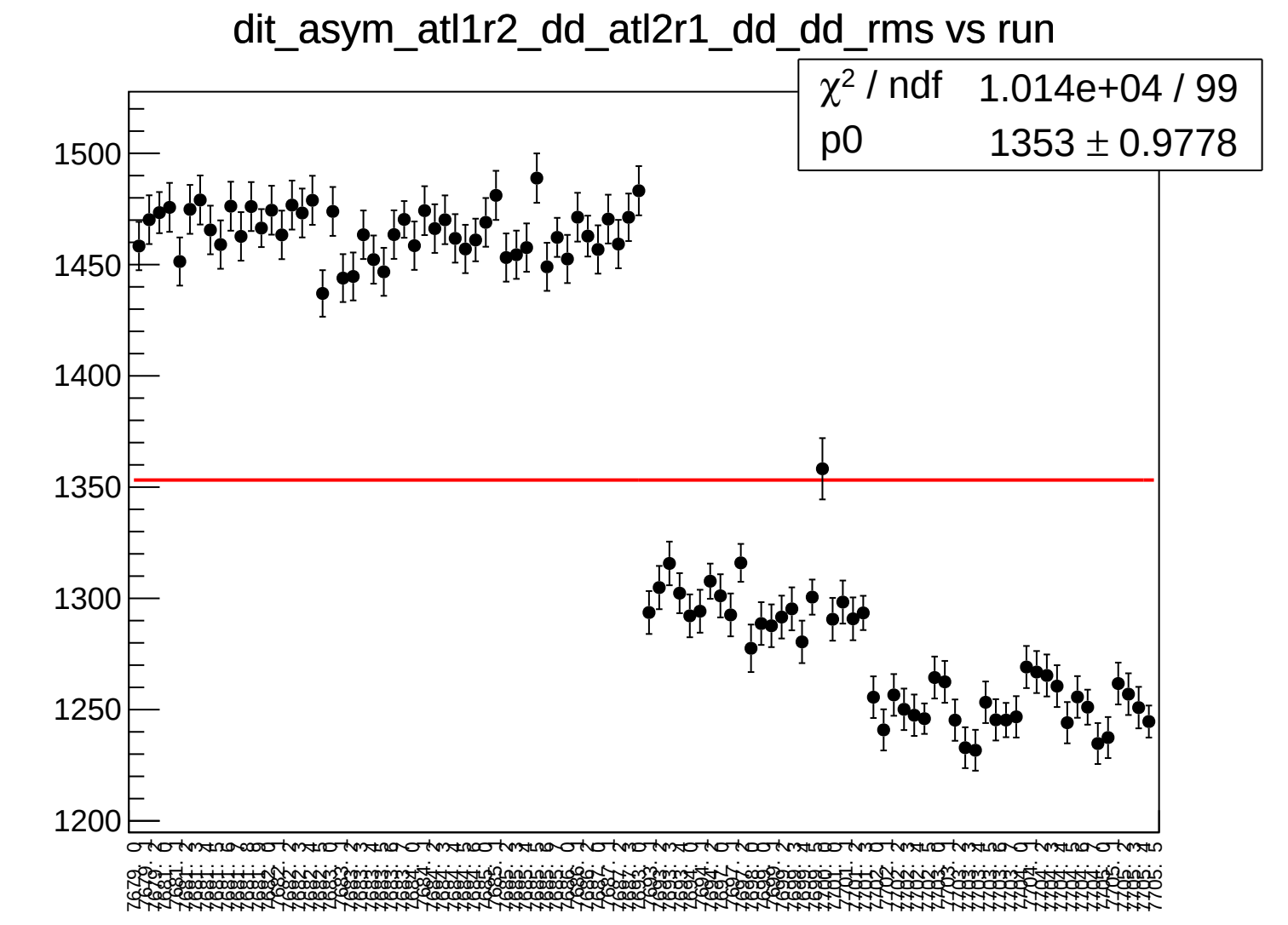

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 103.3 / 99
p0 −6558 ± 4645
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 100
Mean 412.6
Std Dev 0
3
2
1
0
−1
−2

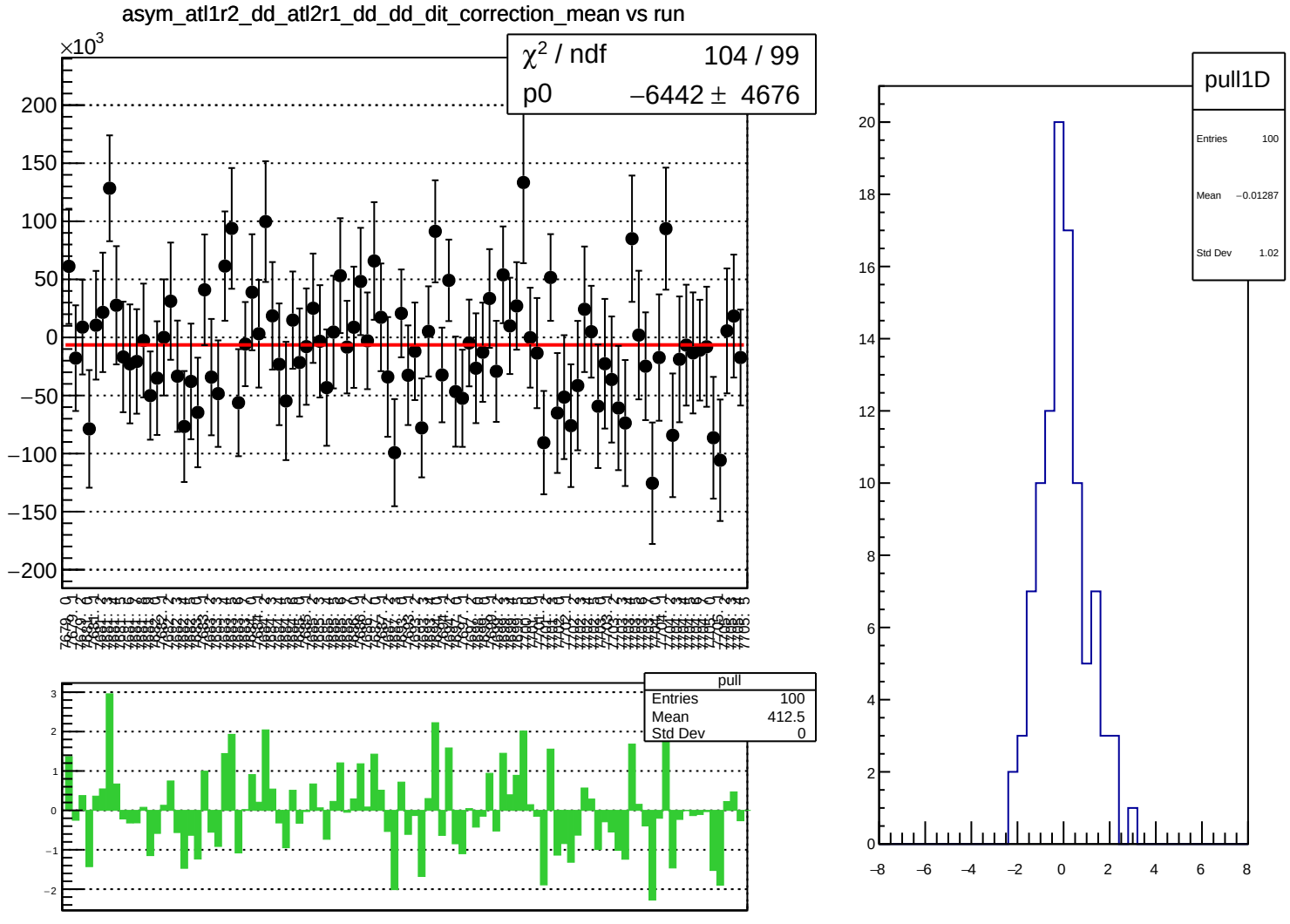

pull1D
Entries 100
Mean −0.01318
Std Dev 1.016
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

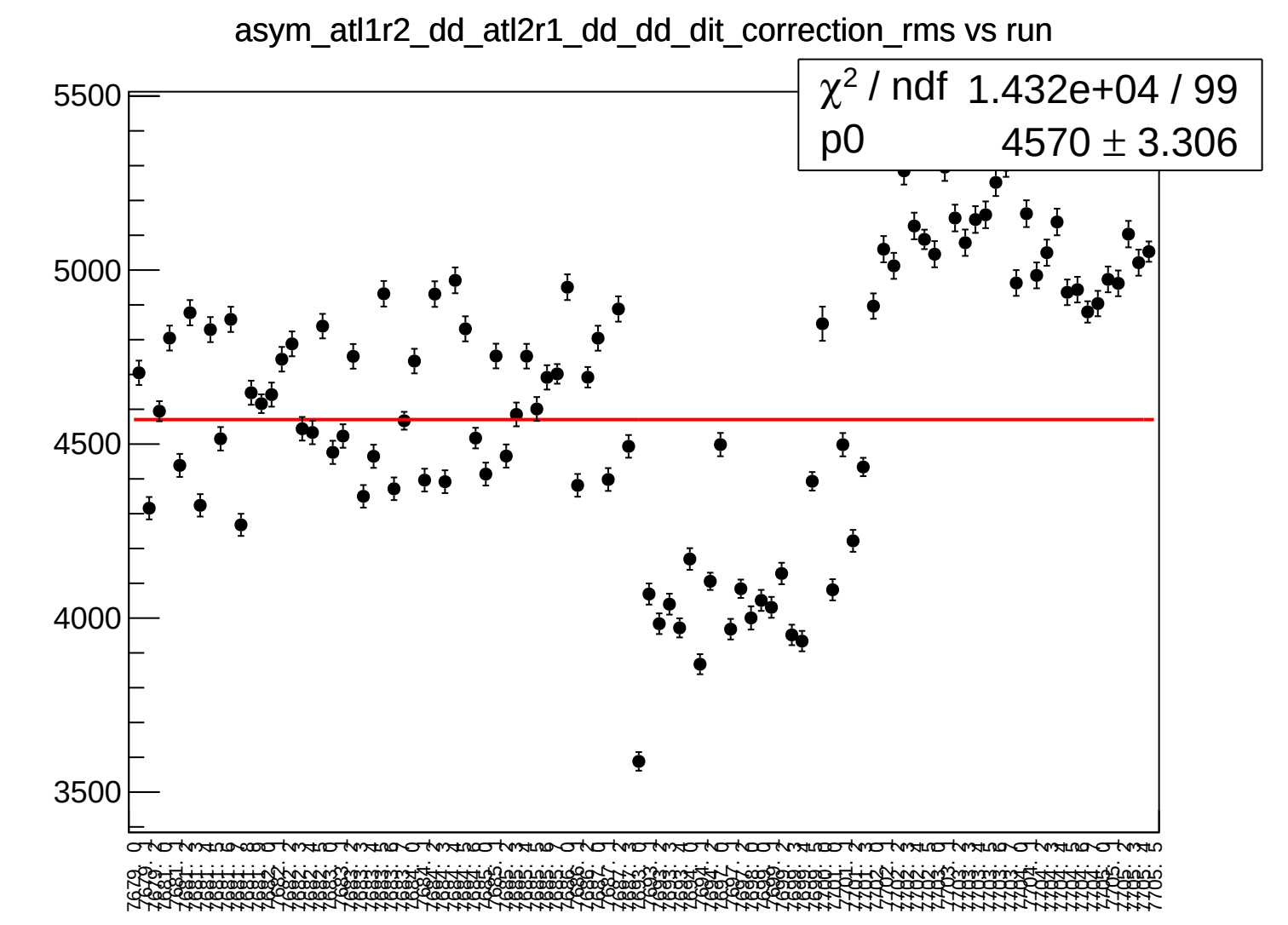

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.45e+04 / 99
p0 4540 ± 3.285
5500
5000
4500
4000
3500

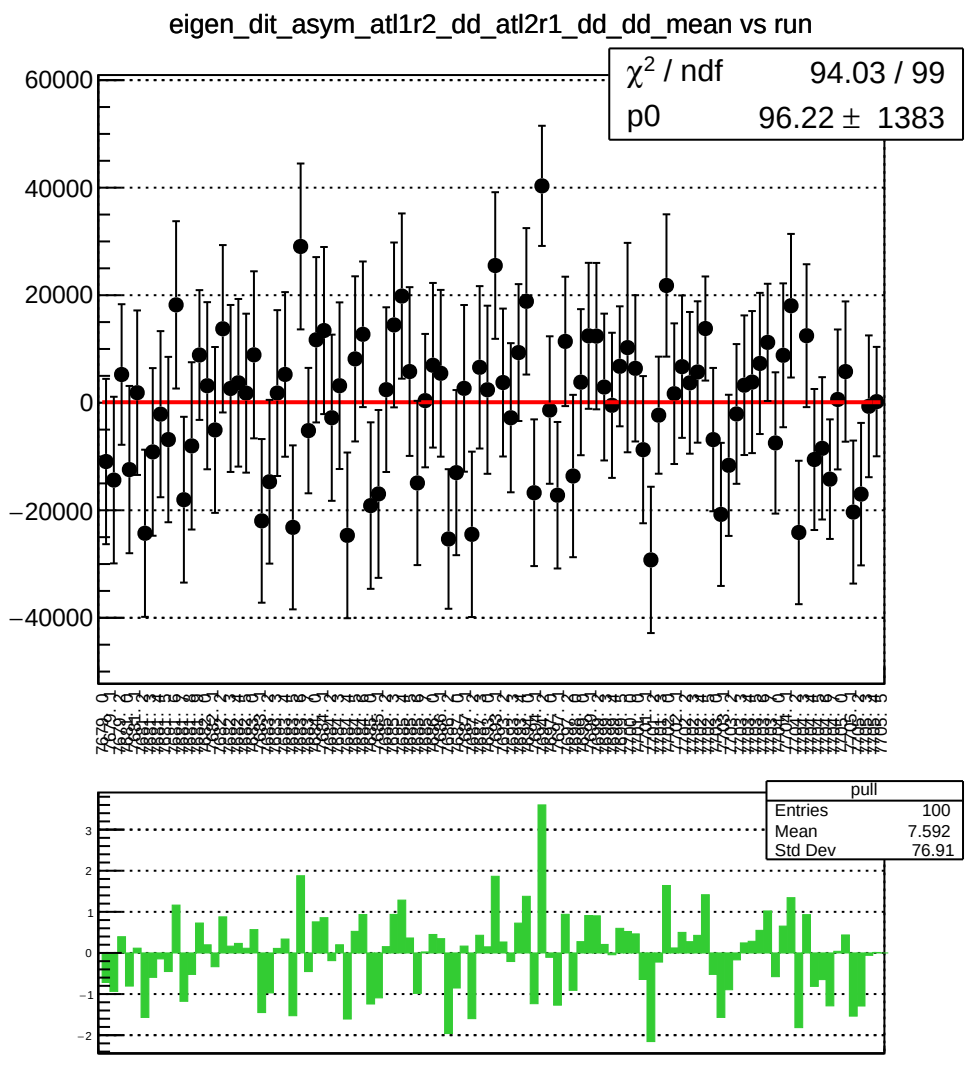

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 94.03 / 99
p0 96.23 ± 1383
60000
40000
20000
0
−20000
−40000
pull
Entries 100
Mean 7.59
Std Dev 76.91
3
2
1
0
−1
−2

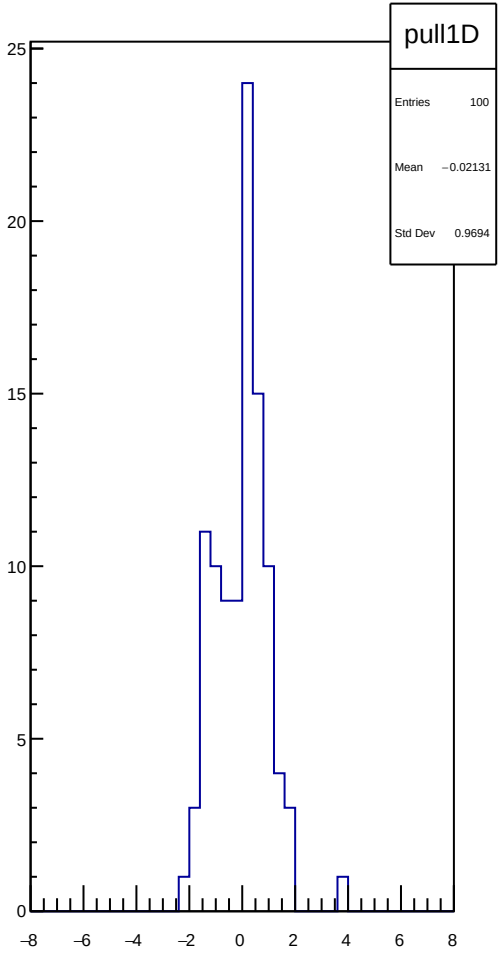

pull1D
Entries 100
Mean −0.02131
Std Dev 0.9694
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

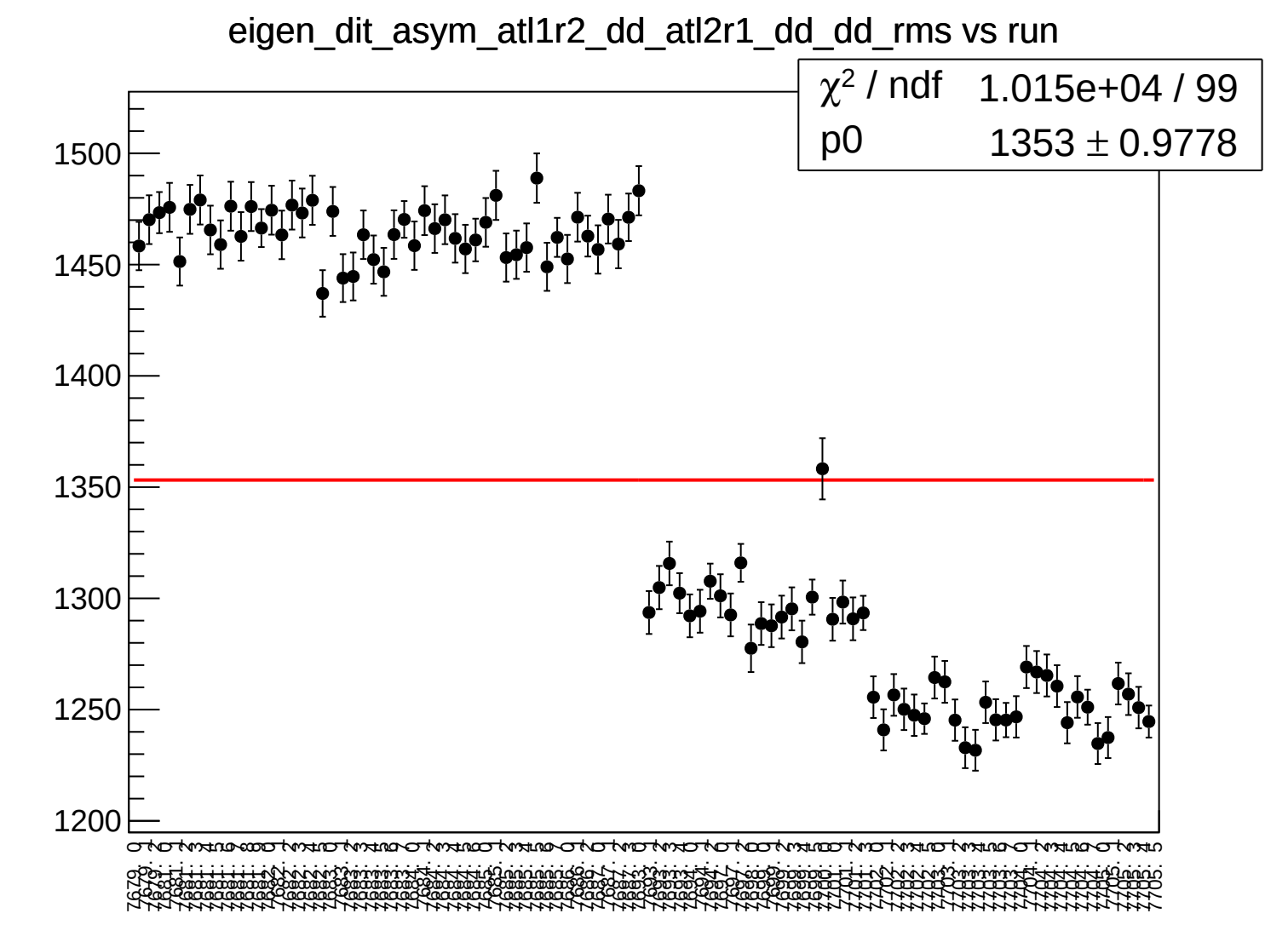

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 1.014e+04 / 99
p0 1353 ± 0.9778
1500
1450
1400
1350
1300
1250
1200

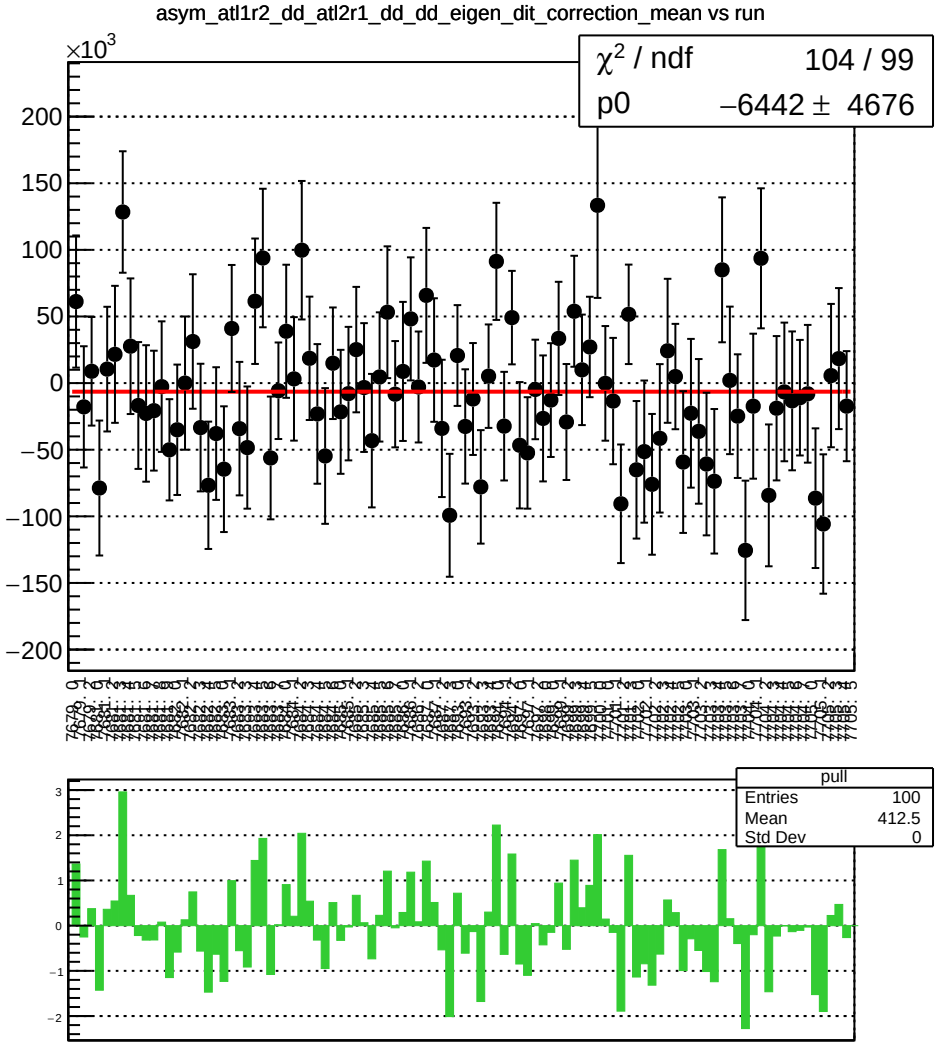

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 104 / 99
p0 −6442 ± 4676
pull
Entries 100
Mean 412.5
Std Dev 0
pull1D
Entries 100
Mean −0.01287
Std Dev 1.02

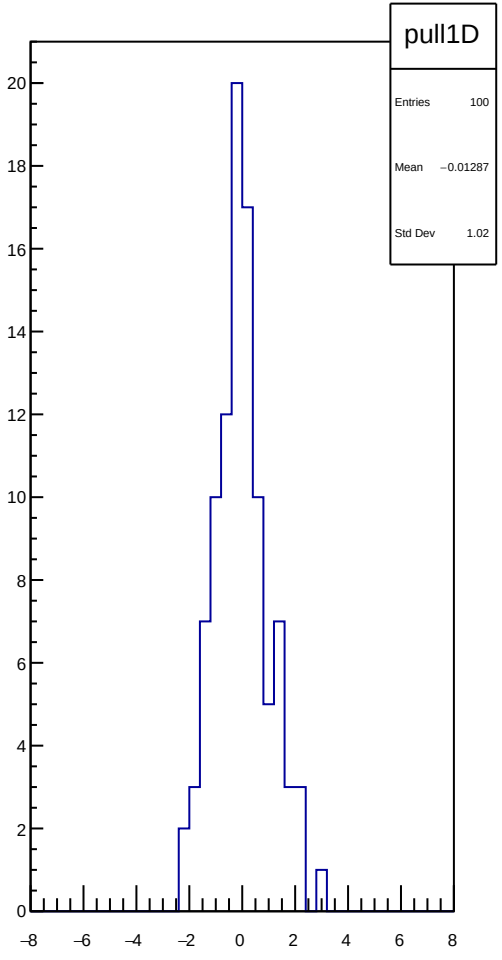

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 1.432e+04 / 99
p0 4570 ± 3.306
5500
5000
4500
4000
3500

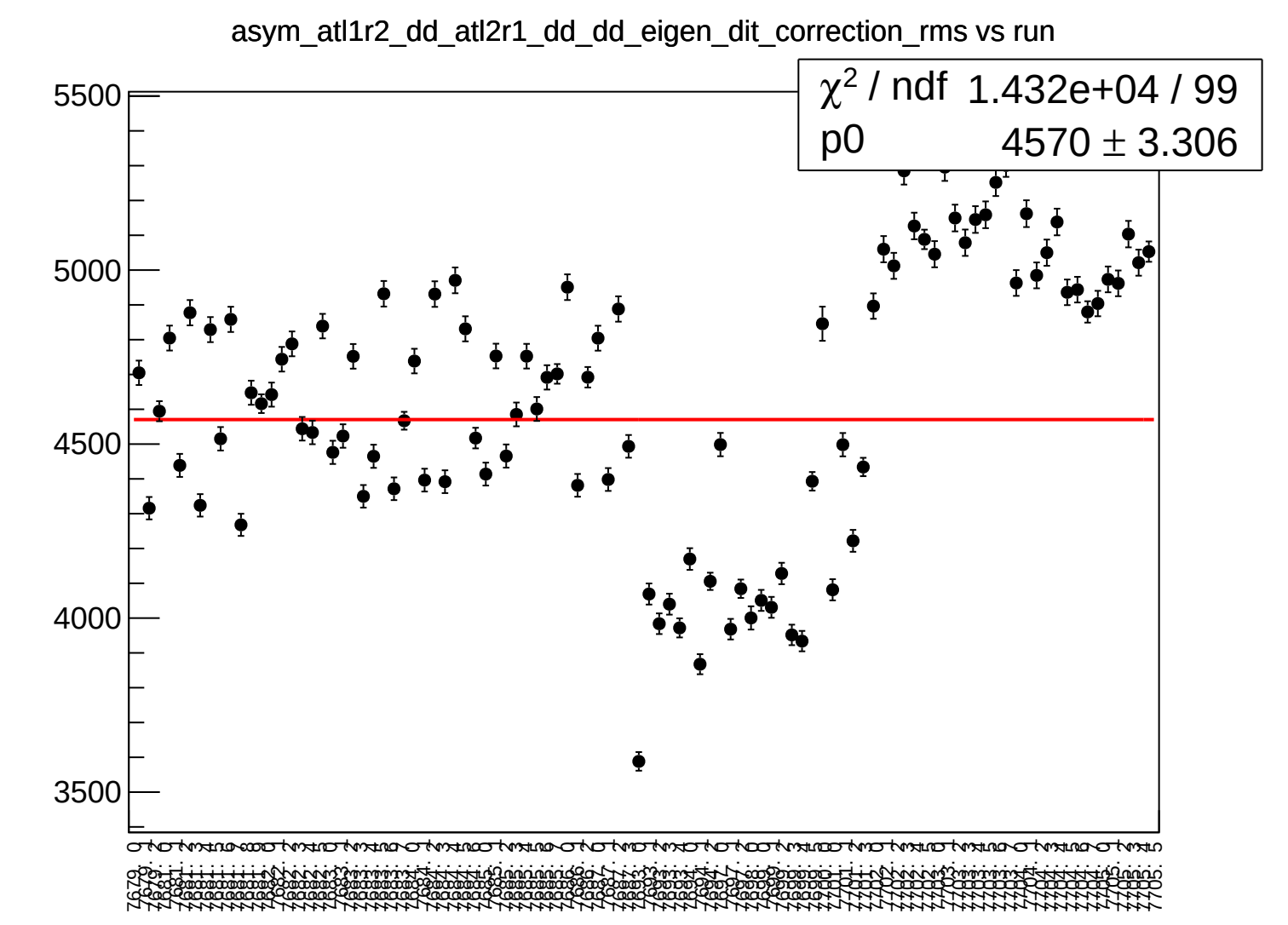

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 94.03 / 99
p0 96.22 ± 1383
60000
40000
20000
0
−20000
−40000
pull
Entries 100
Mean 7.592
Std Dev 76.91
3
2
1
0
−1
−2

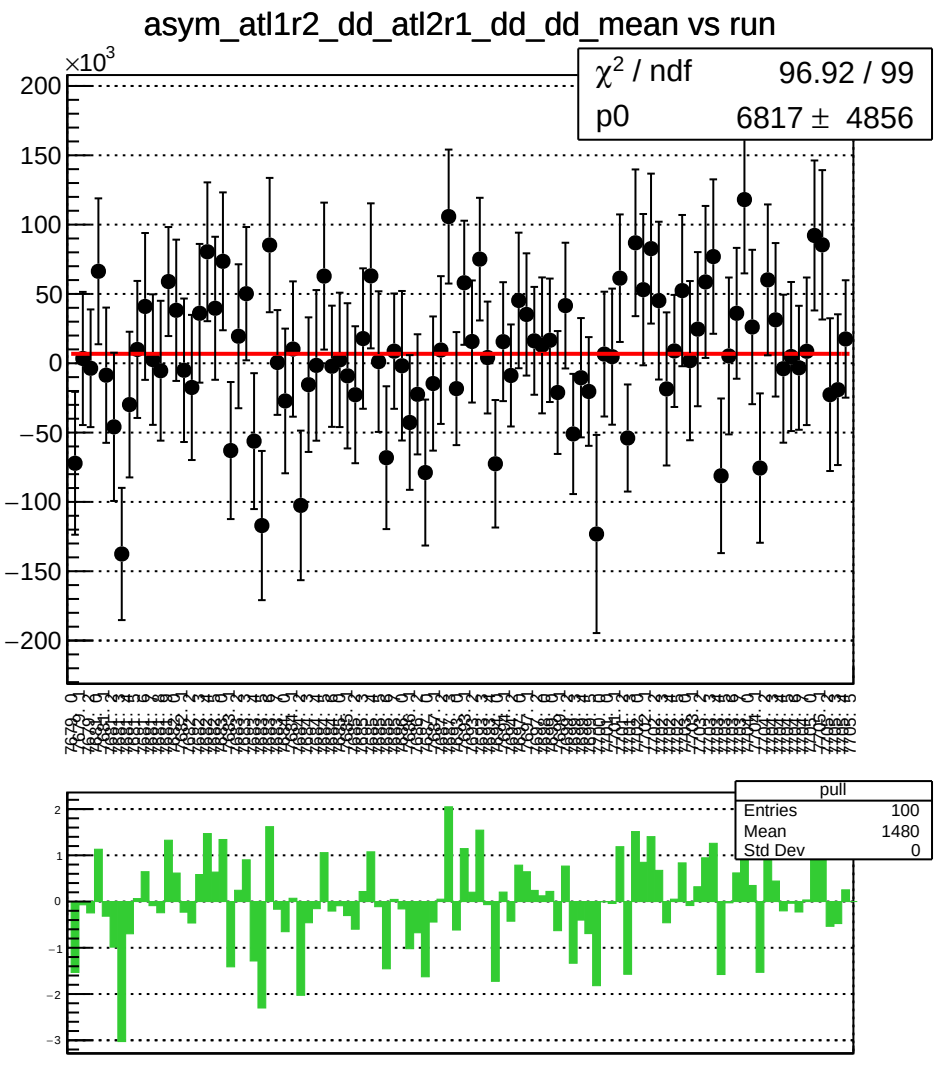

pull1D
Entries 100
Mean −0.02131
Std Dev 0.9694
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

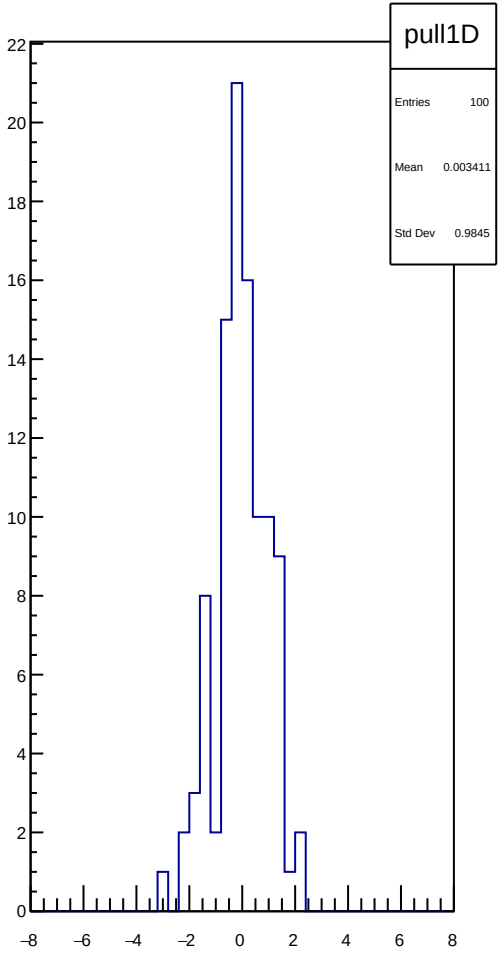

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 1.015e+04 / 99
p0 1353 ± 0.9778
1500
1450
1400
1350
1300
1250
1200

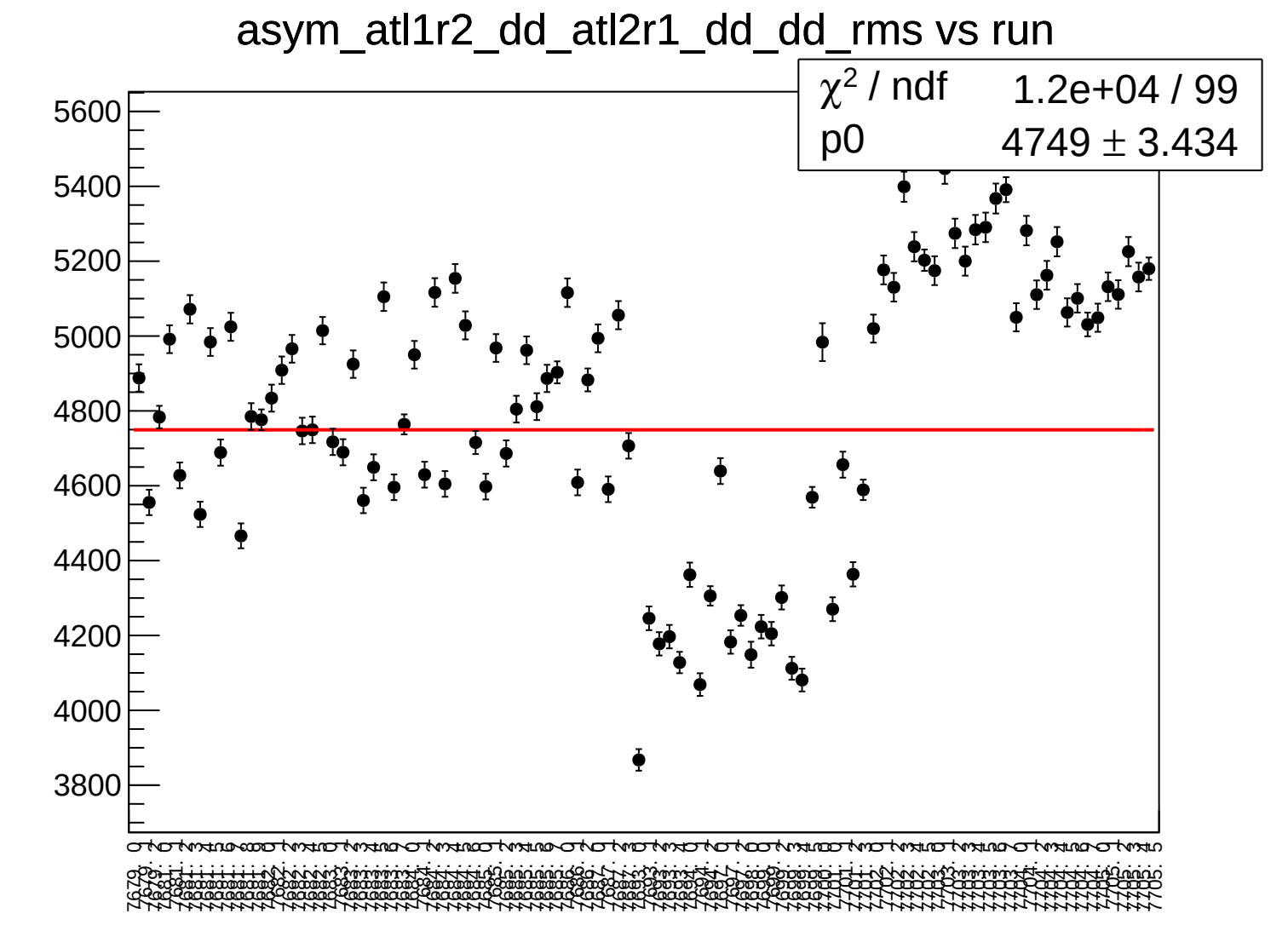

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 104 / 99
p0 −6442 ± 4676
pull
Entries 100
Mean 412.5
Std Dev 0

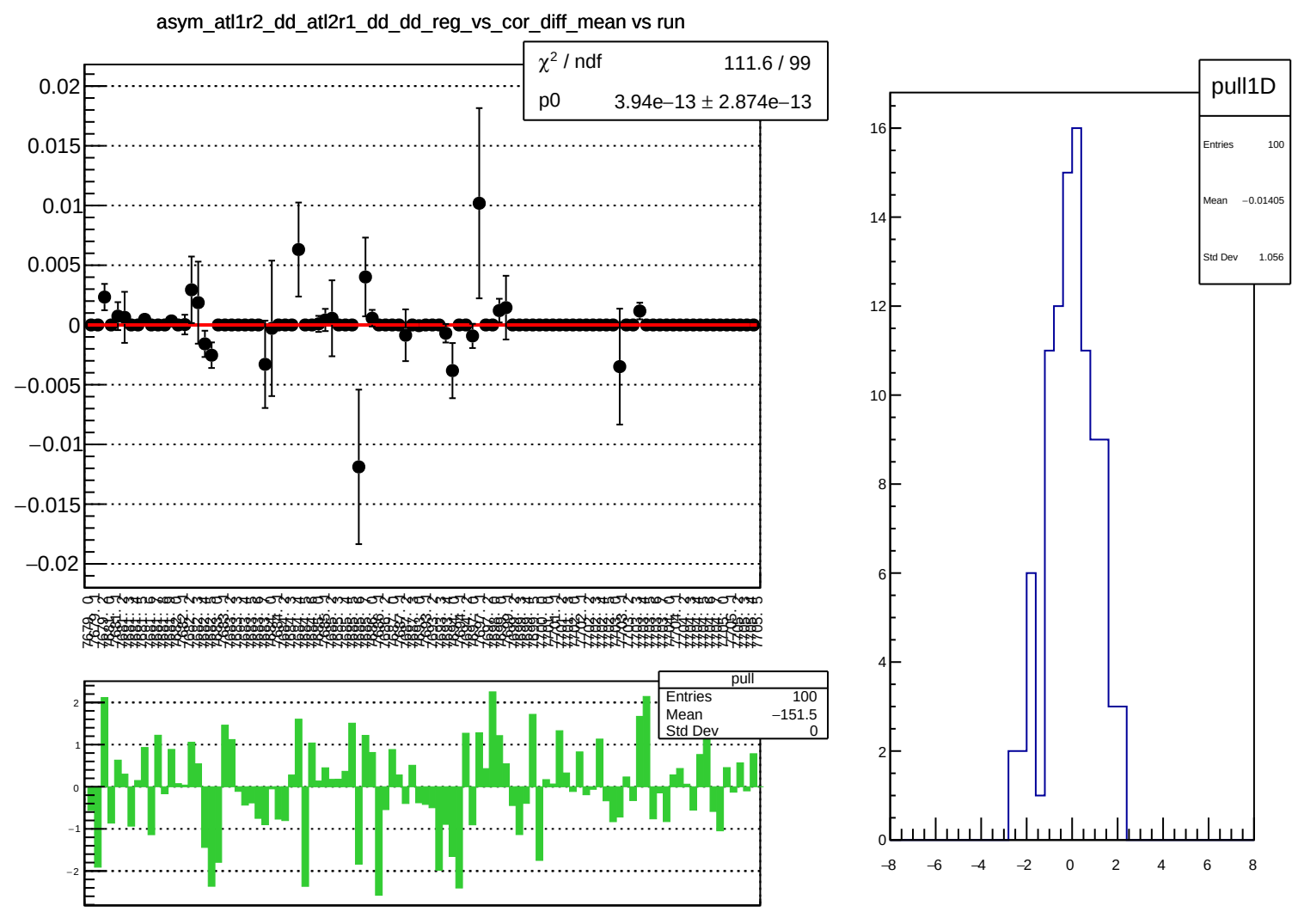

pull1D
Entries 100
Mean −0.01287
Std Dev 1.02

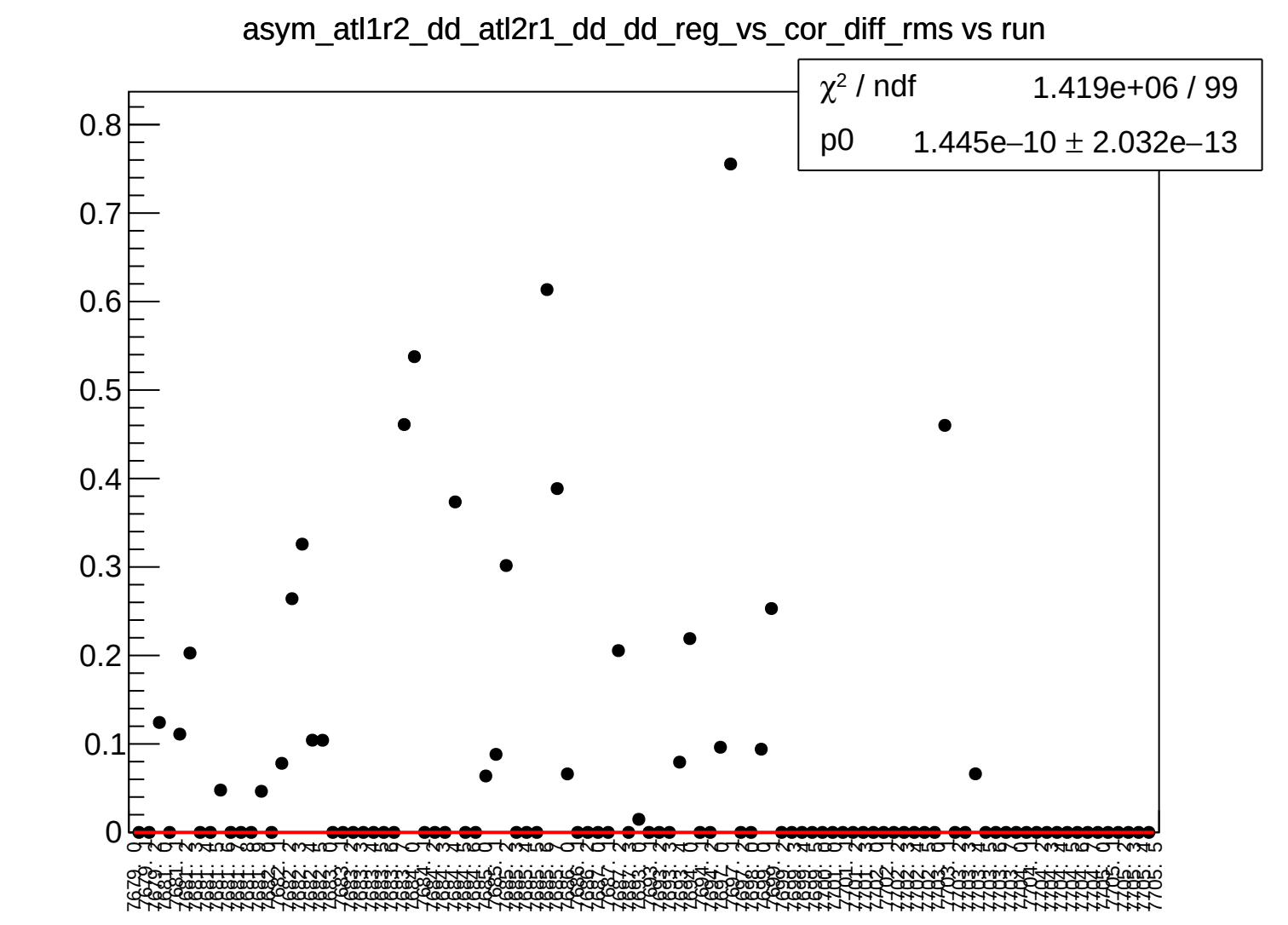

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.432e+04 / 99
p0 4570 ± 3.306
5500
5000
4500
4000
3500

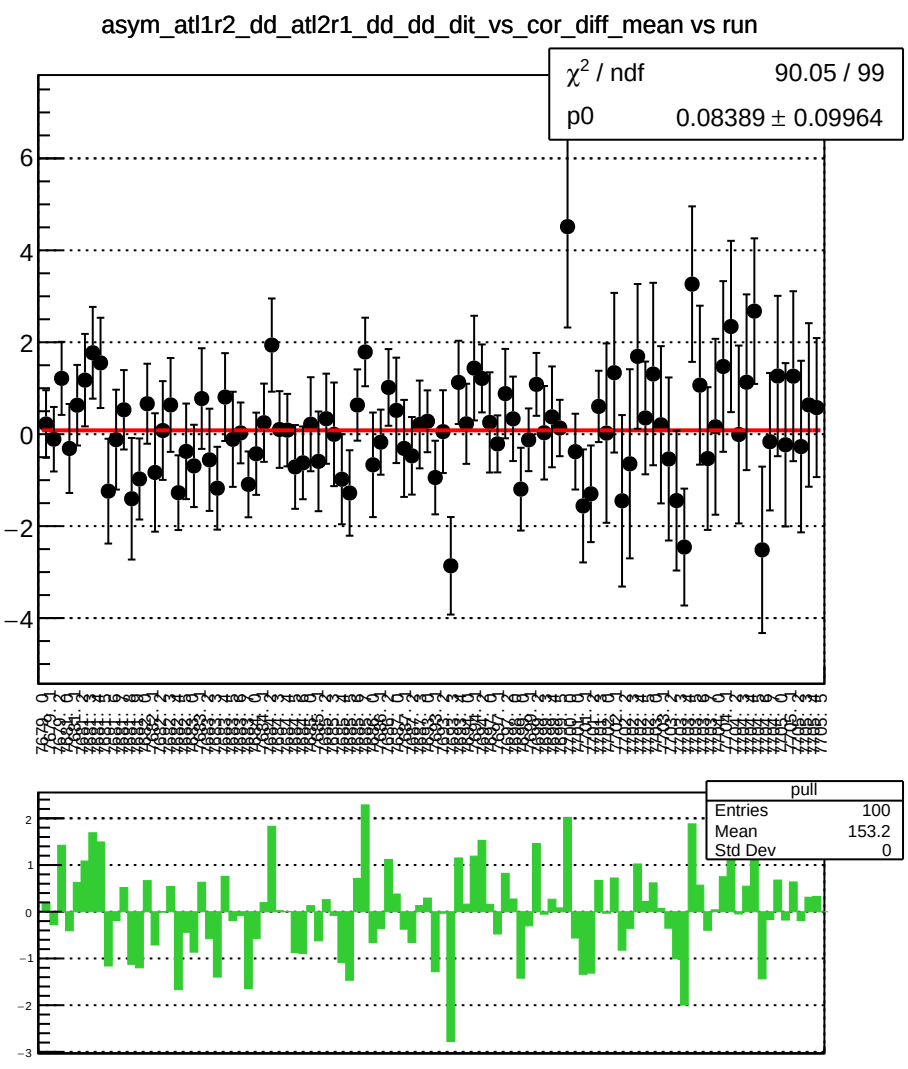

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 96.92 / 99
p0 6817 ± 4856
pull
Entries 100
Mean 1480
Std Dev 0

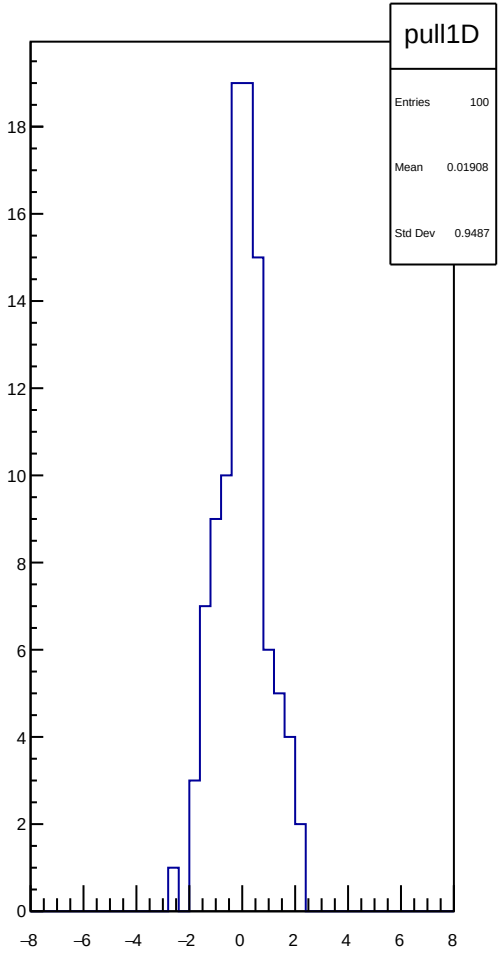

pull1D
Entries 100
Mean 0.003411
Std Dev 0.9845

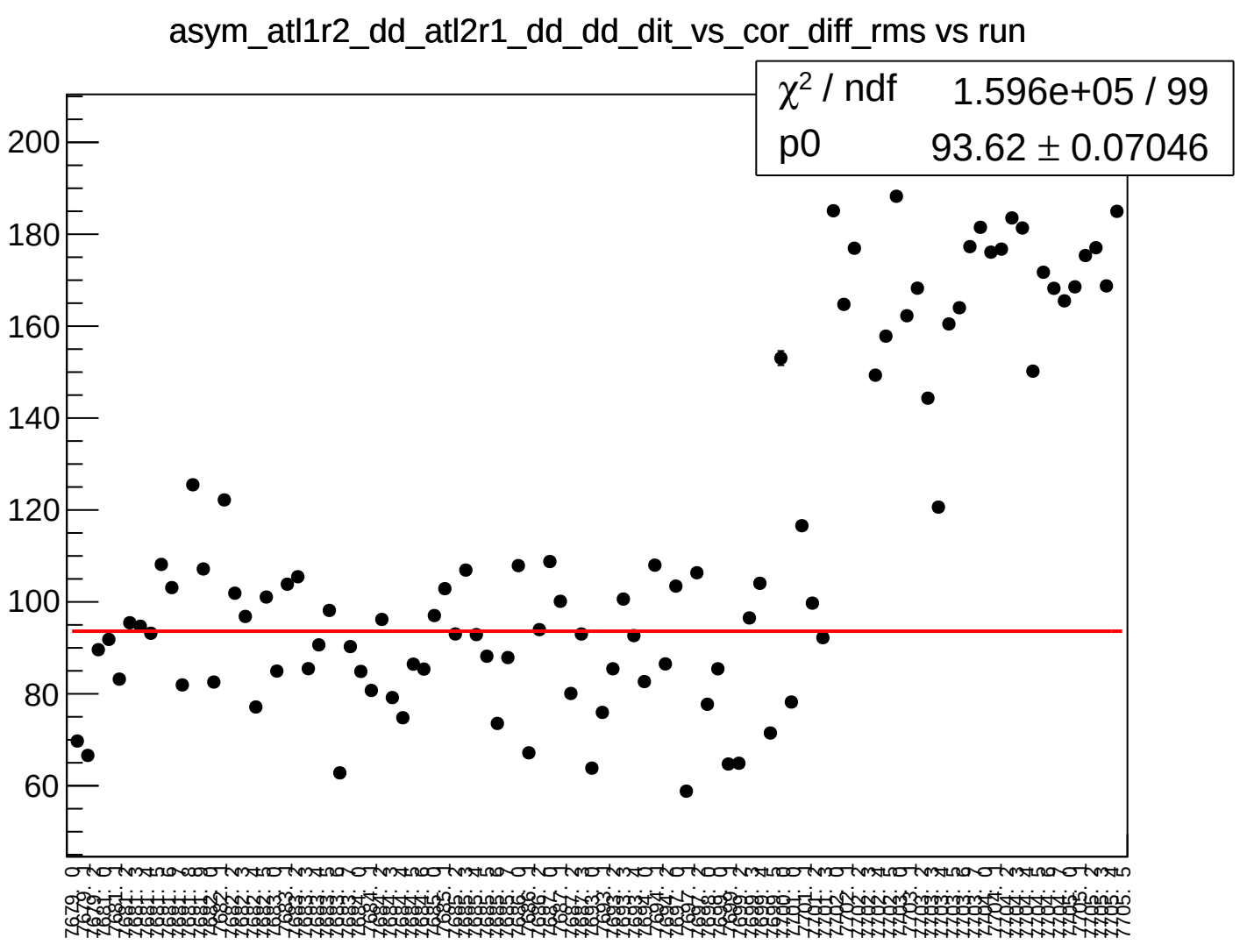

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 1.2e+04 / 99
p0 4749 ± 3.434
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

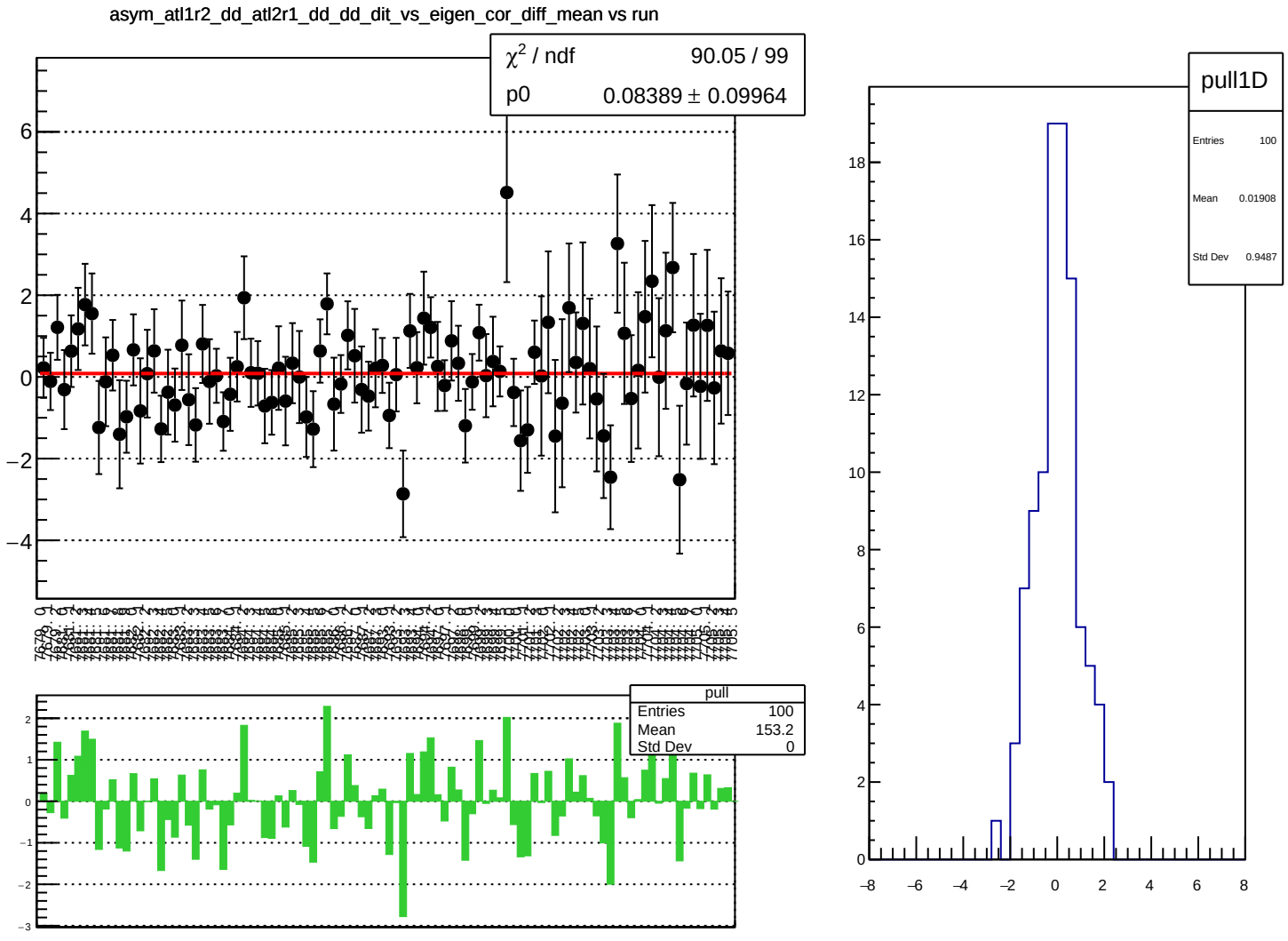

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 111.6 / 99
p0 3.94e−13 ± 2.874e−13
pull
Entries 100
Mean −151.5
Std Dev 0
pull1D
Entries 100
Mean −0.01405
Std Dev 1.056

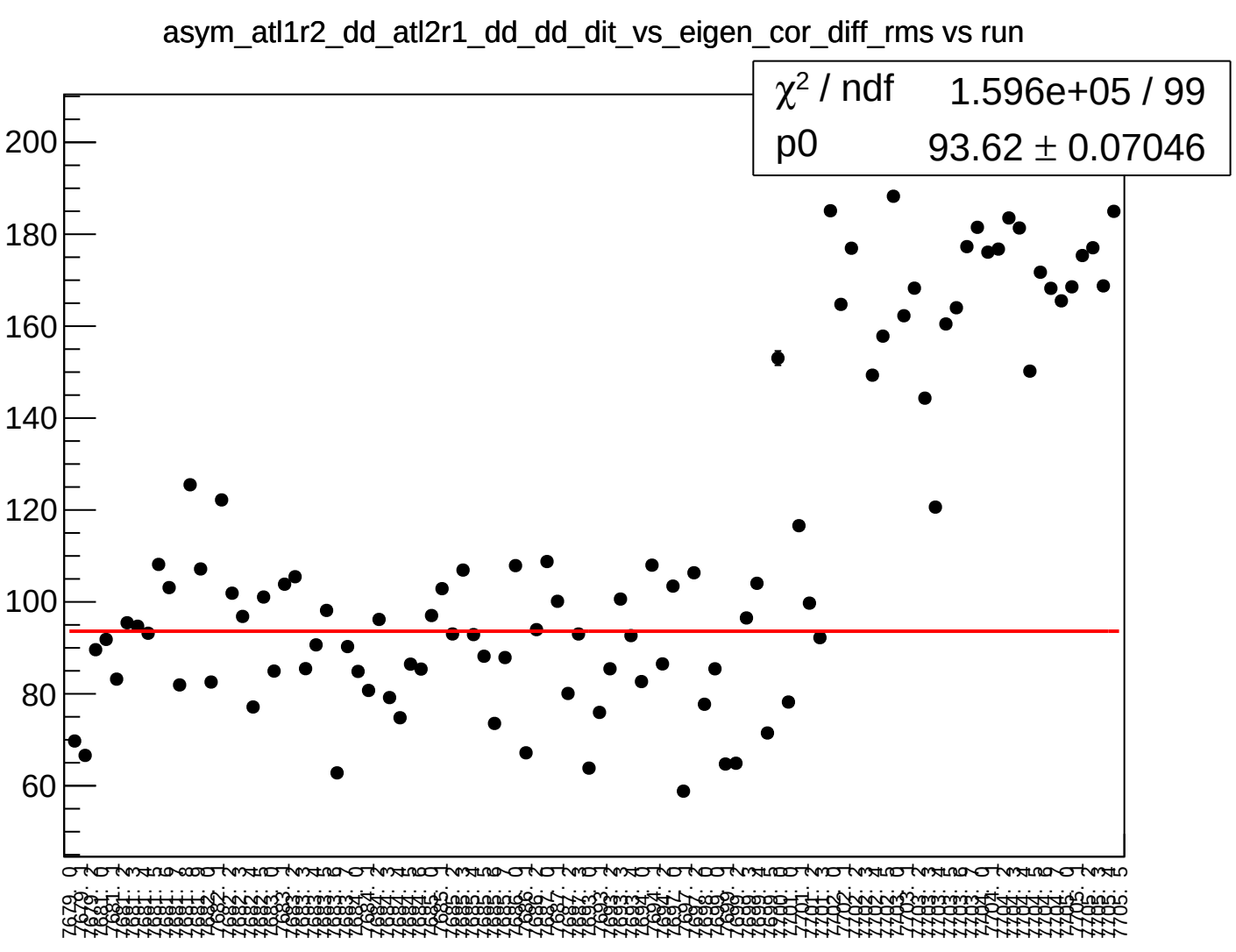

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.419e+06 / 99
p0 1.445e−10 ± 2.032e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

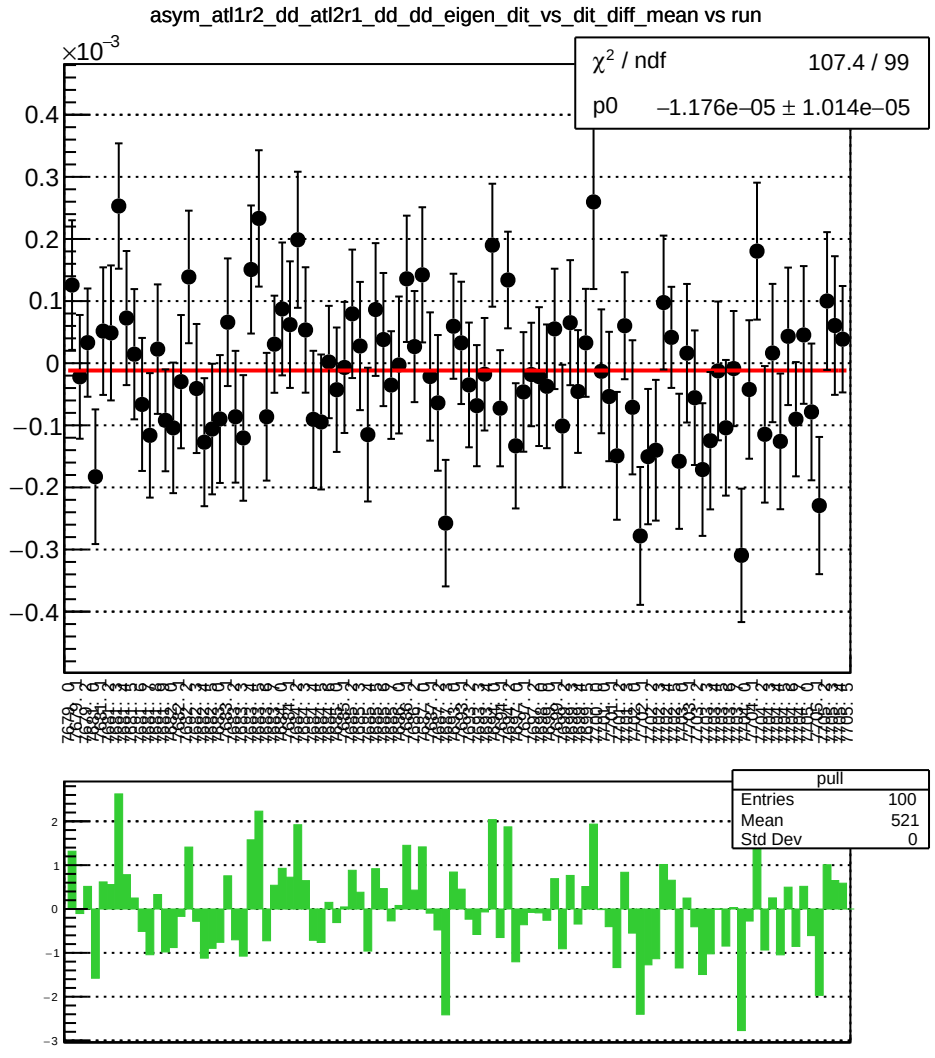

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.05 / 99
p0 0.08389 ± 0.09964
pull
Entries 100
Mean 153.2
Std Dev 0

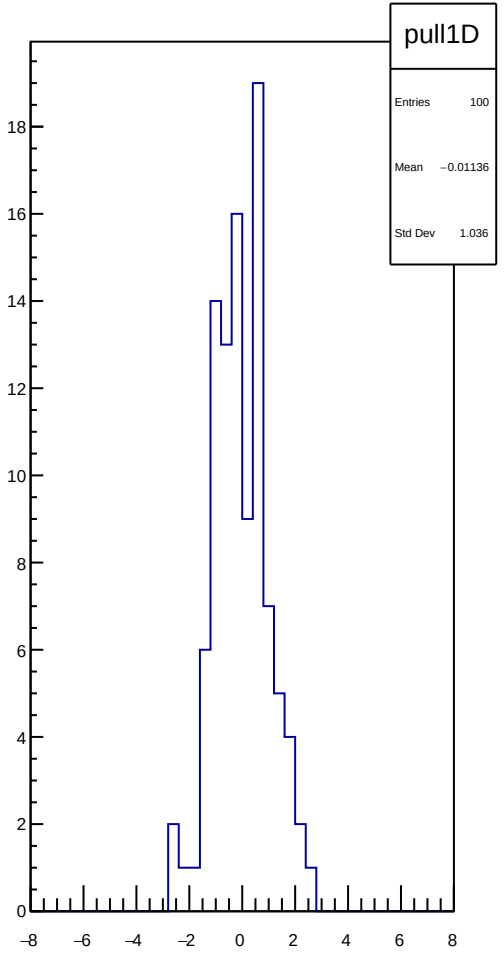

pull1D
Entries 100
Mean 0.01908
Std Dev 0.9487

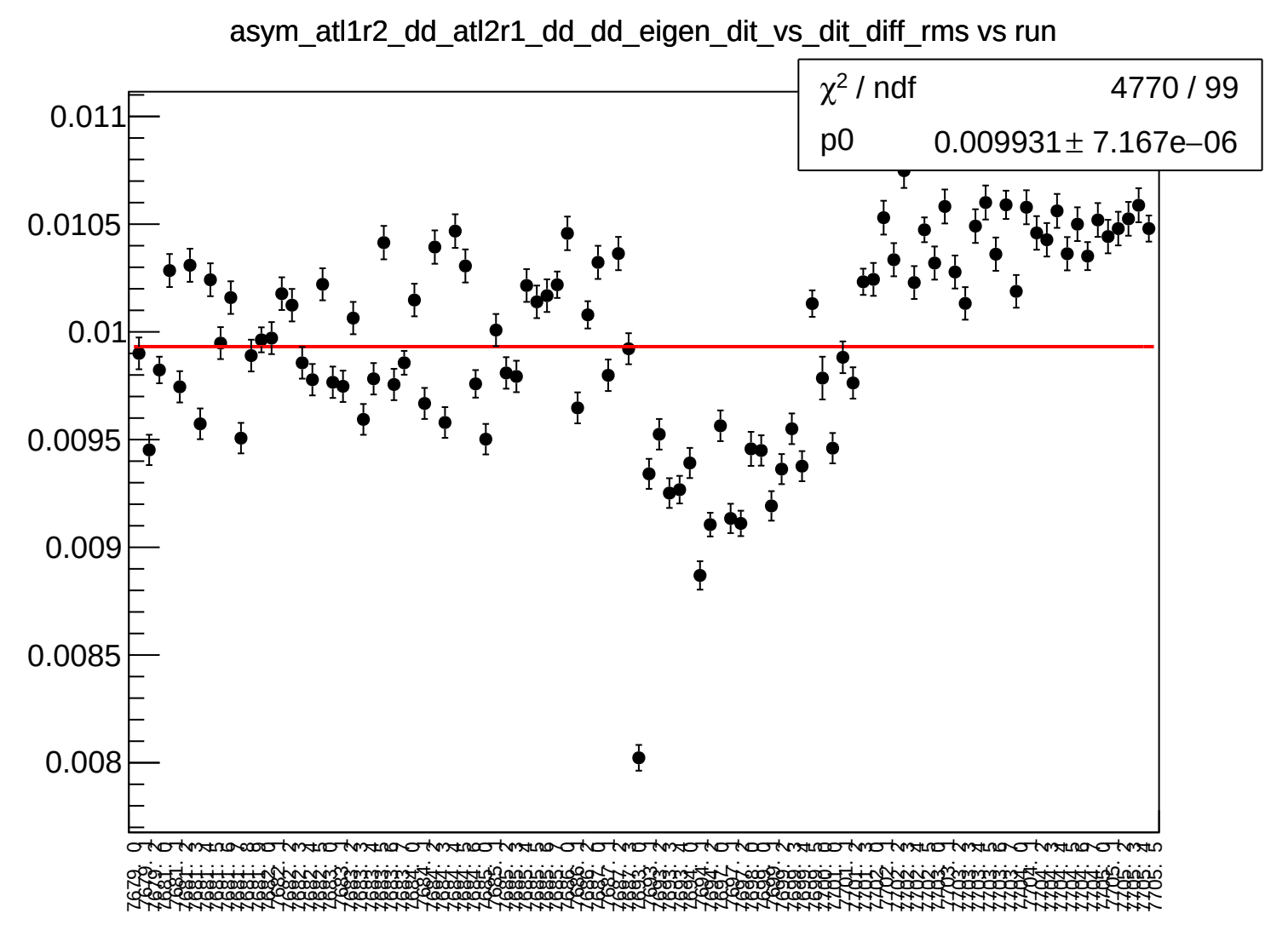

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.596e+05 / 99
p0 93.62 ± 0.07046
200
180
160
140
120
100
80
60

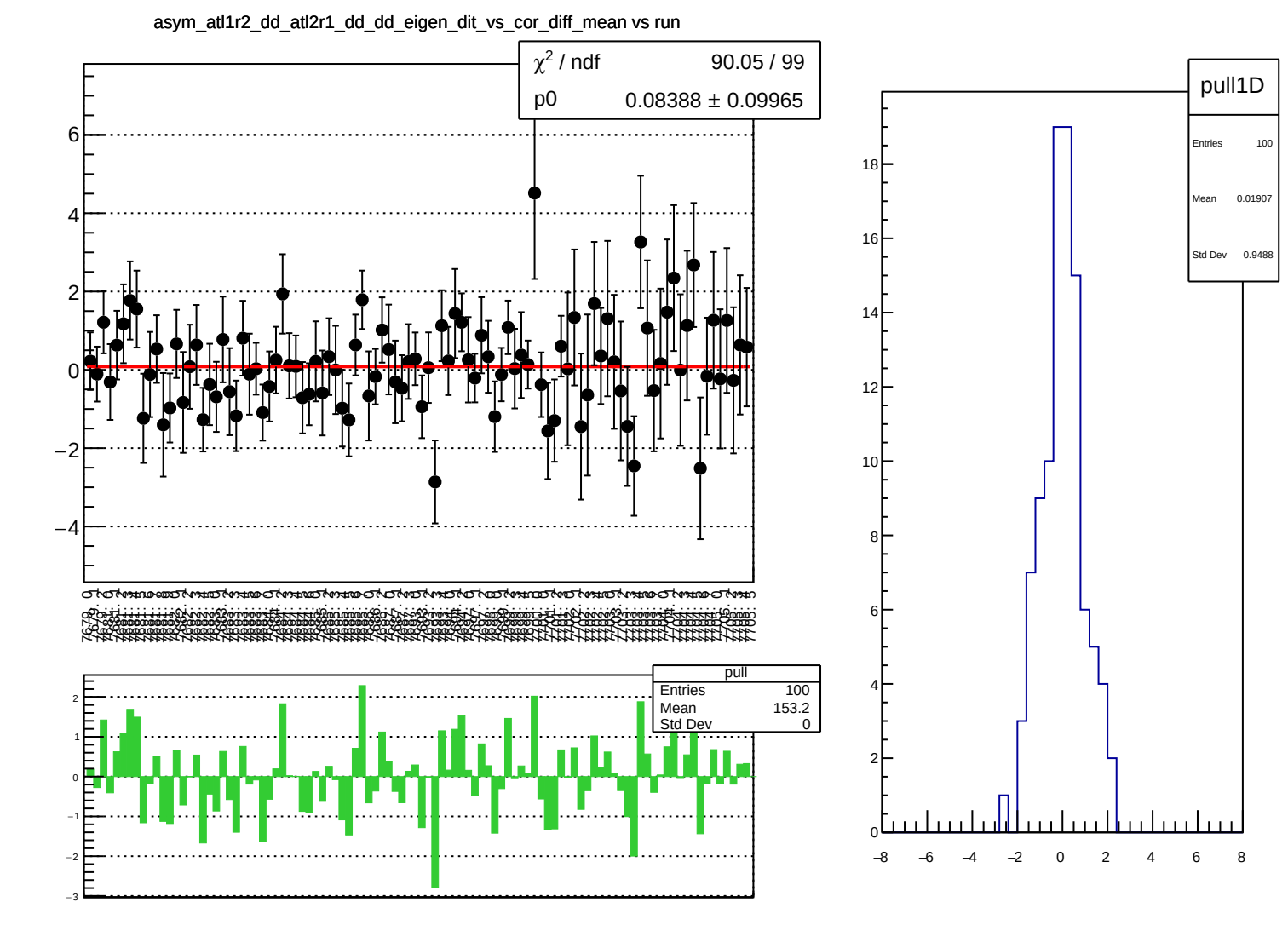

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.05 / 99
p0 0.08389 ± 0.09964
pull
Entries 100
Mean 153.2
Std Dev 0
pull1D
Entries 100
Mean 0.01908
Std Dev 0.9487

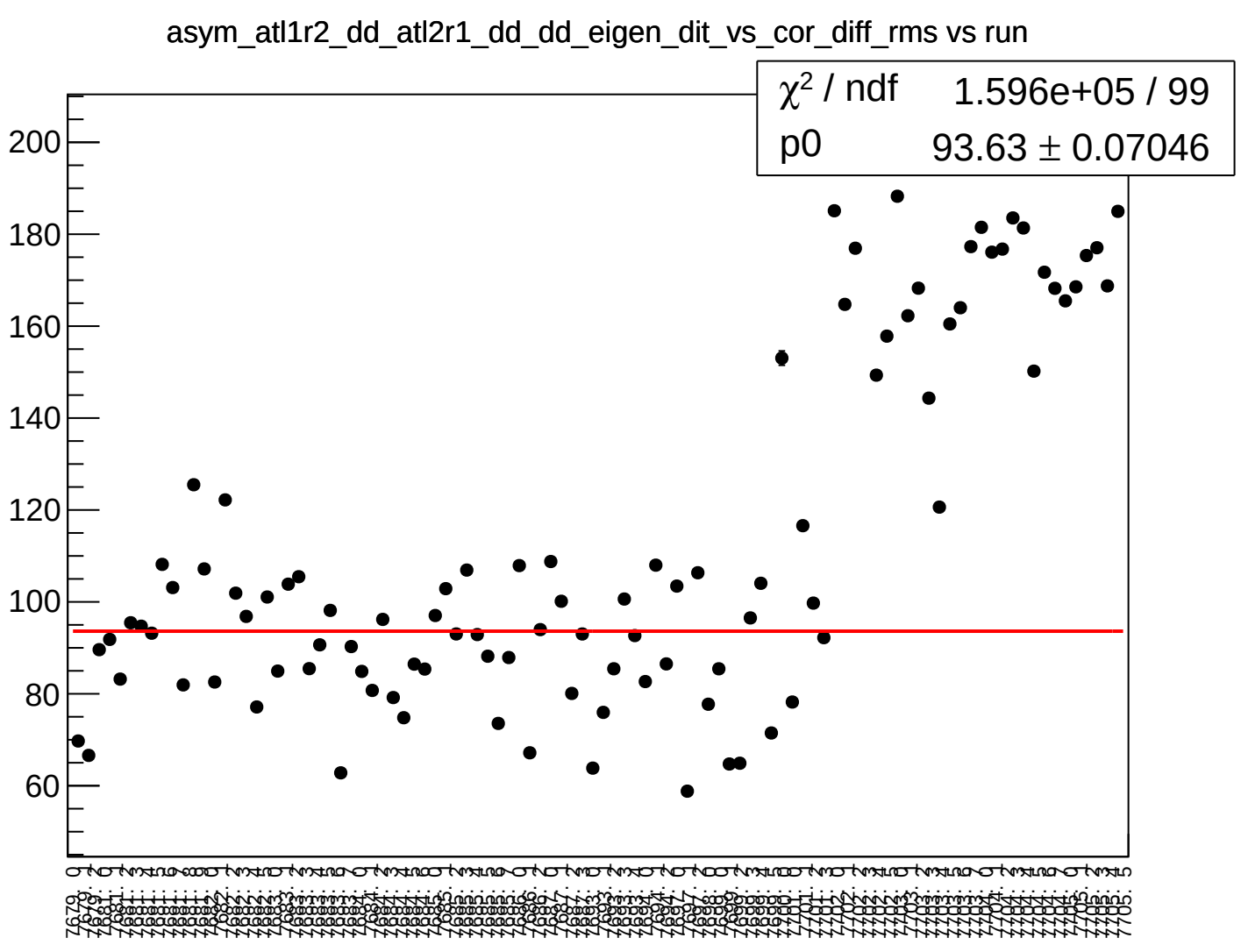

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.596e+05 / 99
p0 93.62 ± 0.07046
200
180
160
140
120
100
80
60

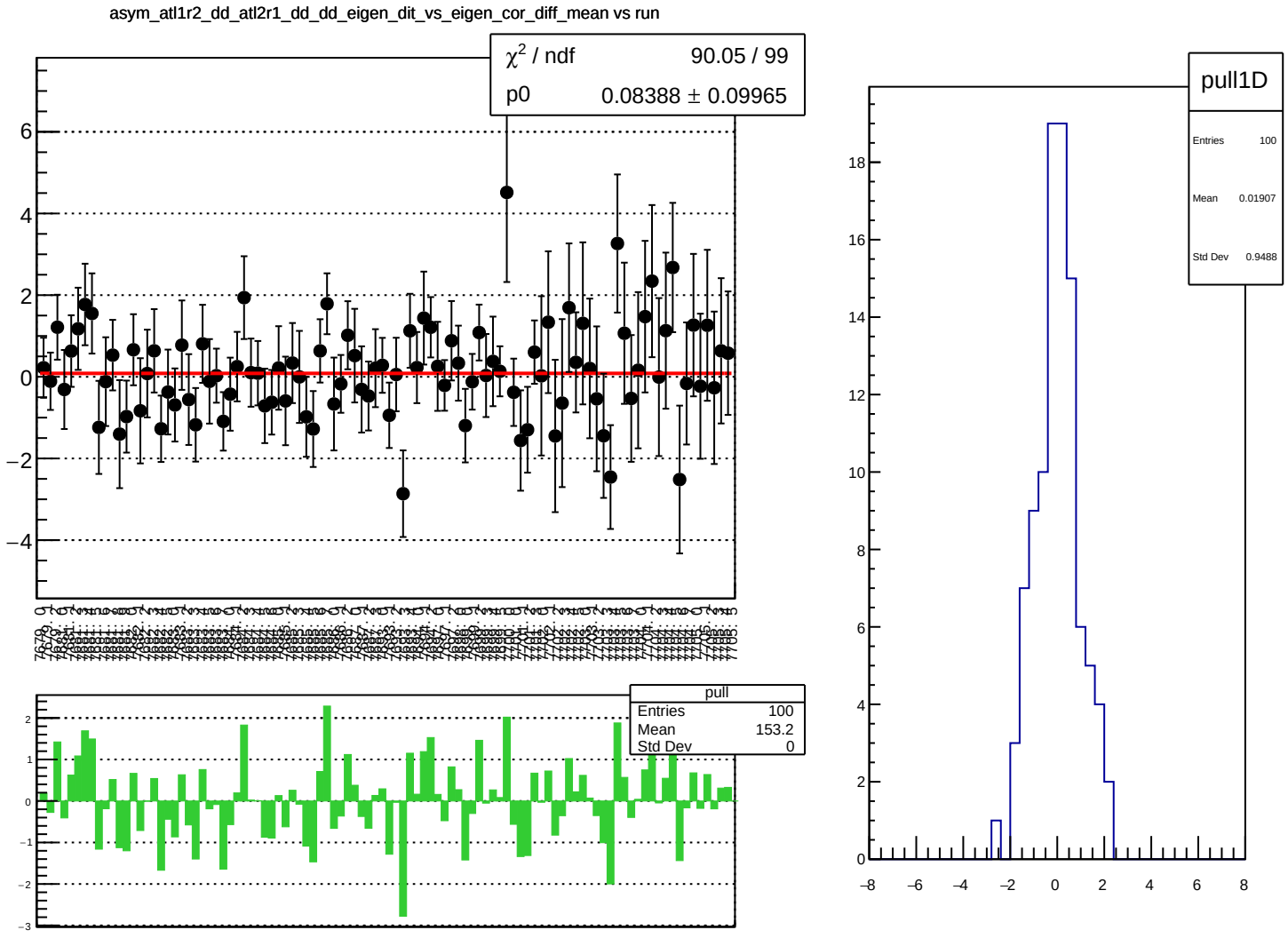

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 107.4 / 99
p0 −1.176e−05 ± 1.014e−05
pull
Entries 100
Mean 521
Std Dev 0

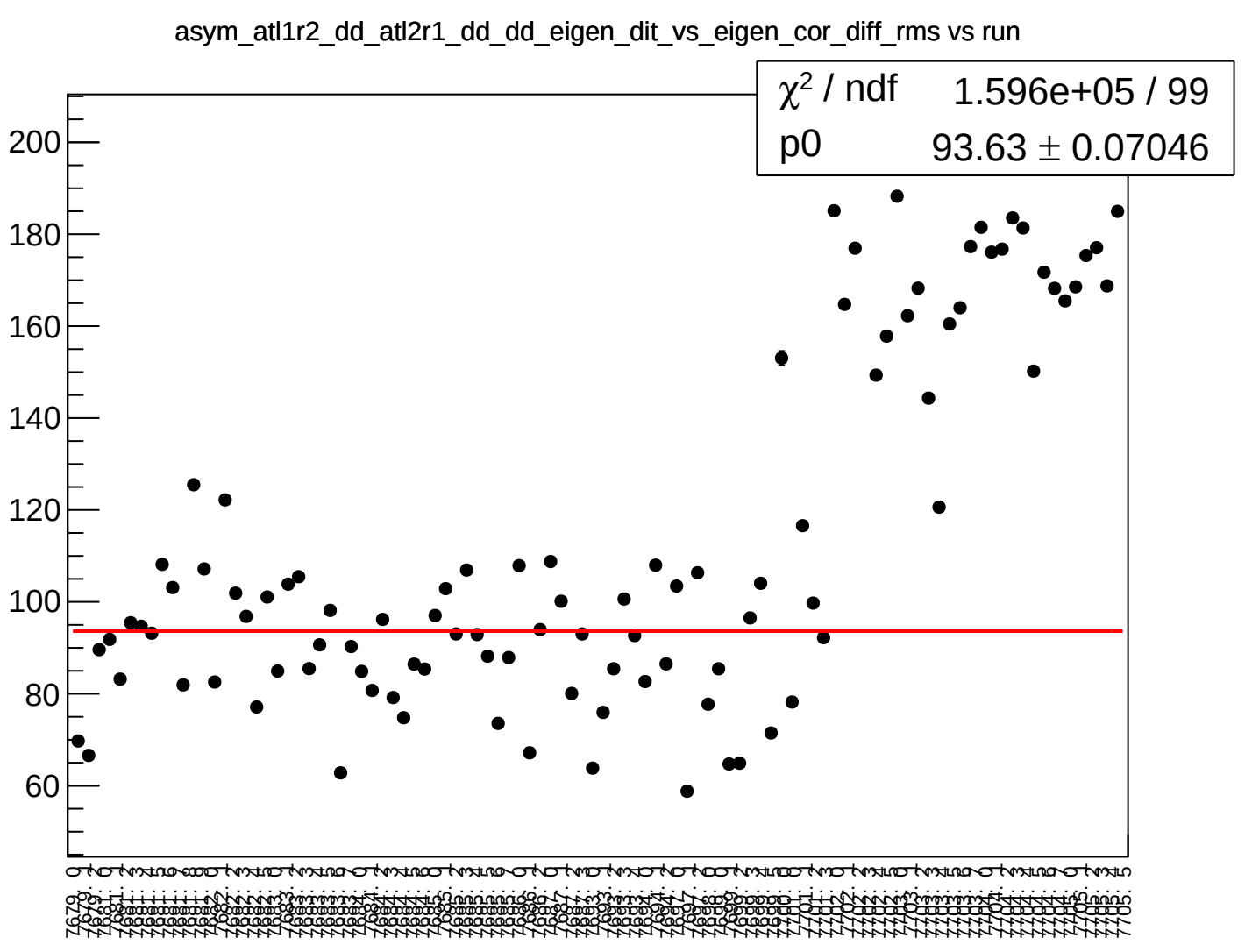

pull1D
Entries 100
Mean −0.01136
Std Dev 1.036

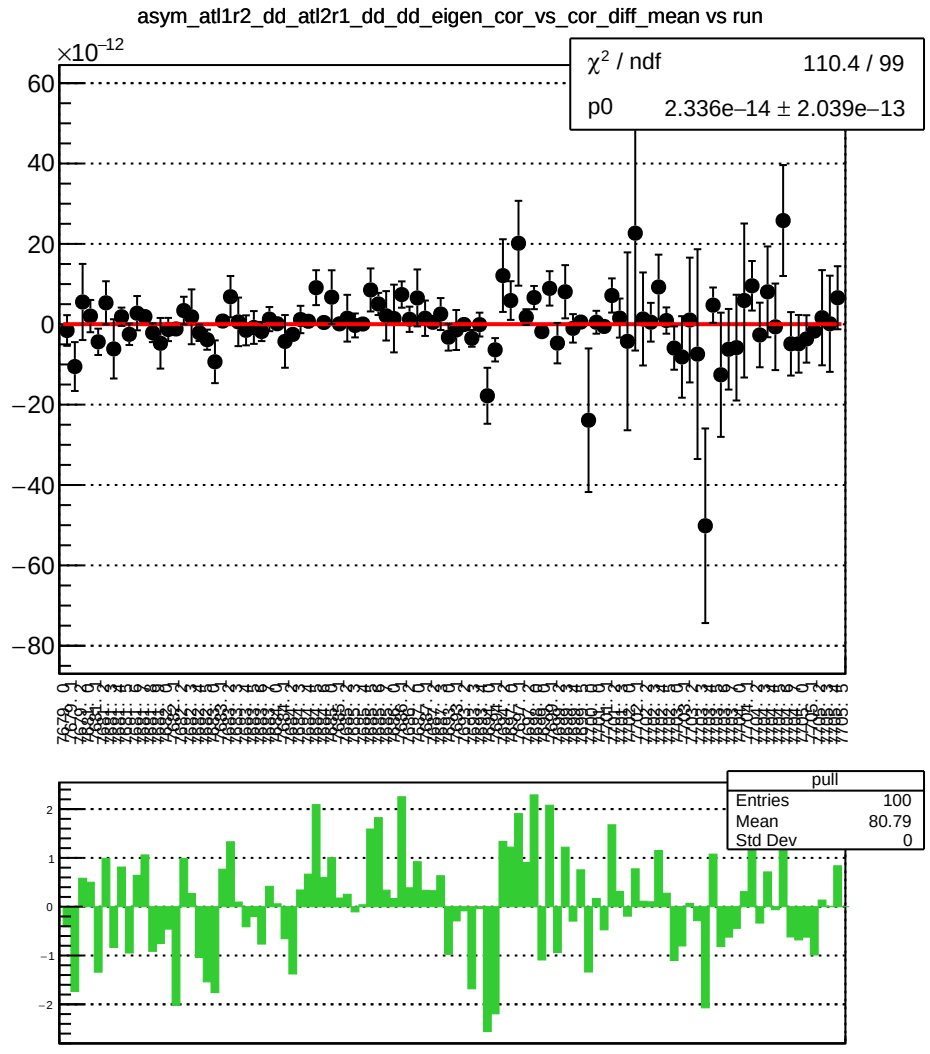

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4770 / 99
p0 0.009931 ± 7.167e−06
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008

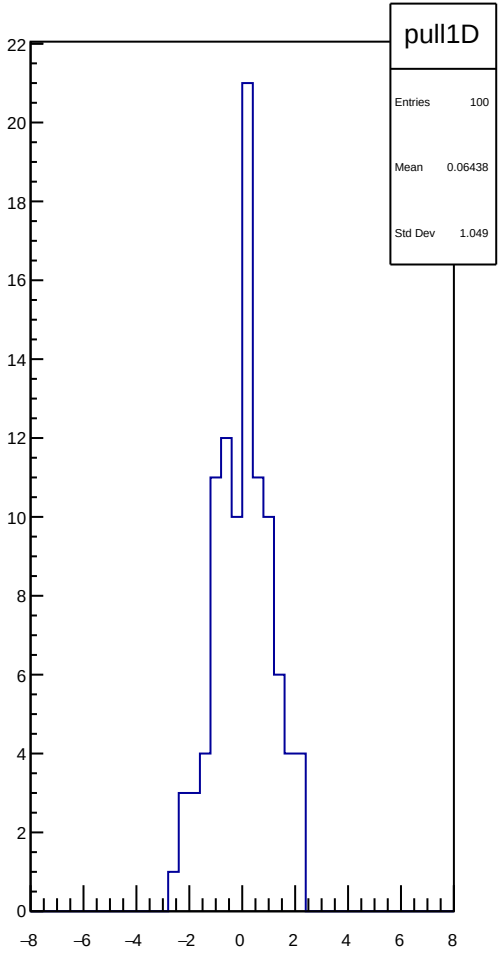

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.05 / 99
p0 0.08388 ± 0.09965
pull
Entries 100
Mean 153.2
Std Dev 0
pull1D
Entries 100
Mean 0.01907
Std Dev 0.9488

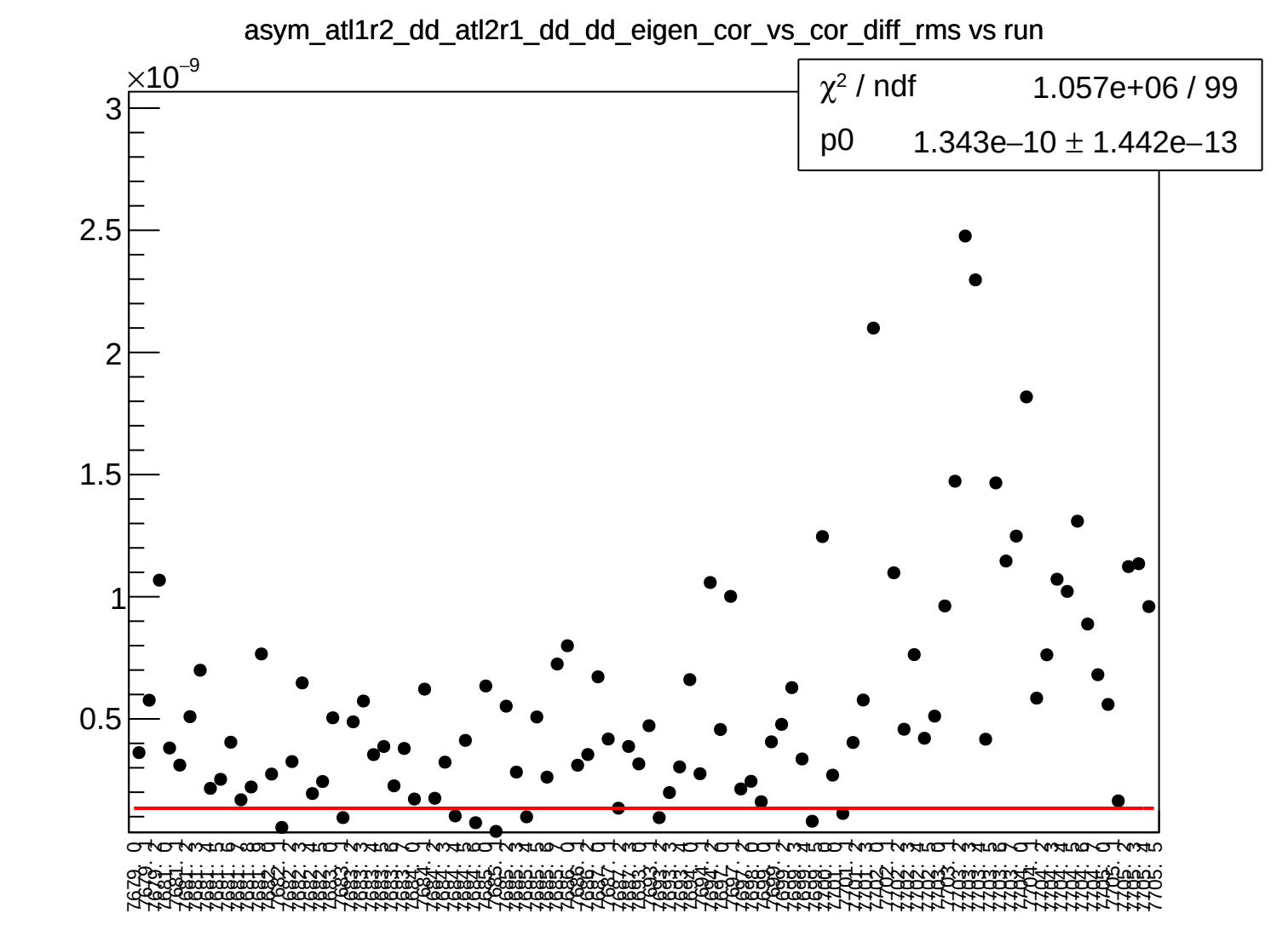

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.596e+05 / 99
p0 93.63 ± 0.07046
200
180
160
140
120
100
80
60

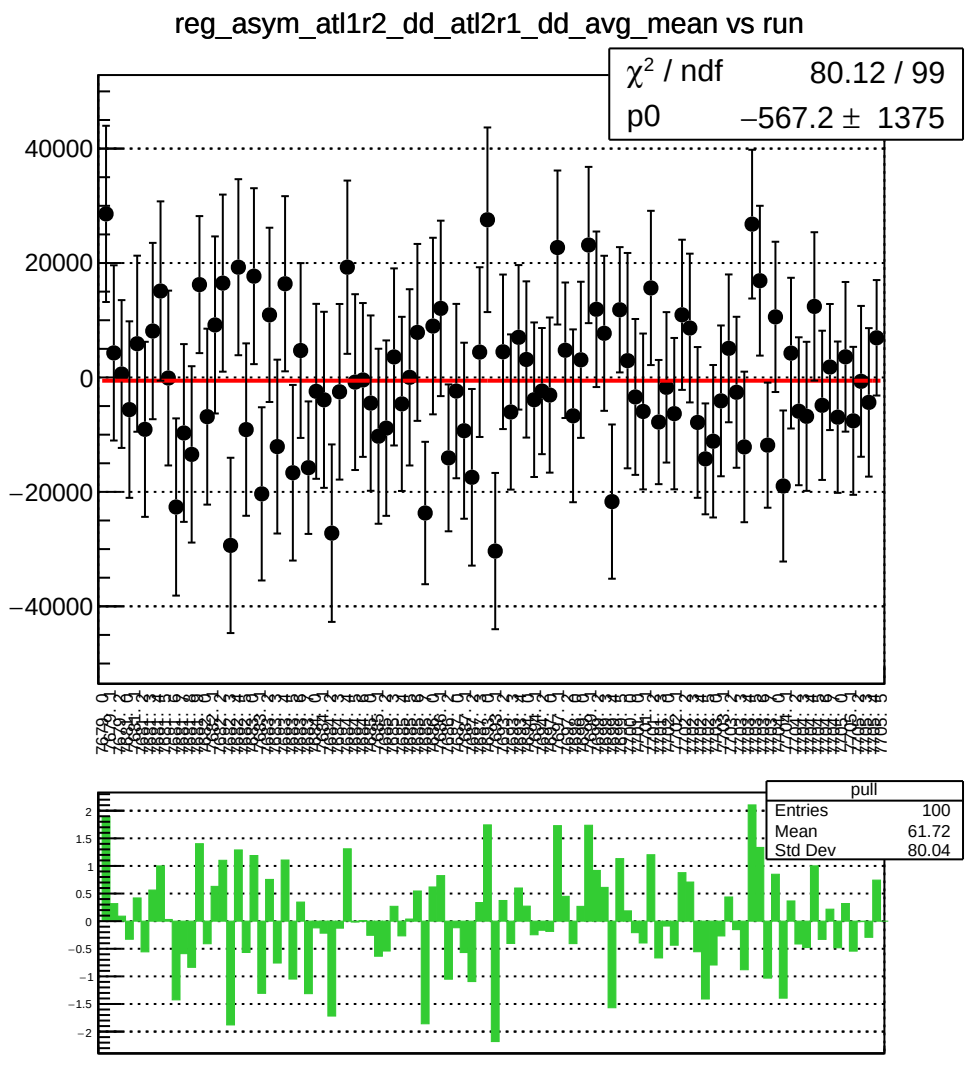

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.05 / 99
p0 0.08388 ± 0.09965
pull
Entries 100
Mean 153.2
Std Dev 0
pull1D
Entries 100
Mean 0.01907
Std Dev 0.9488

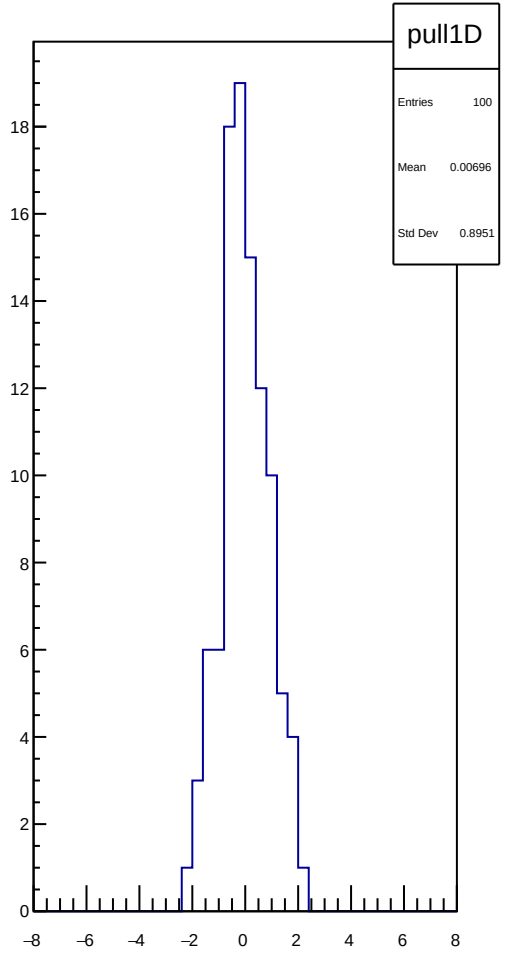

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.596e+05 / 99
p0 93.63 ± 0.07046
200
180
160
140
120
100
80
60

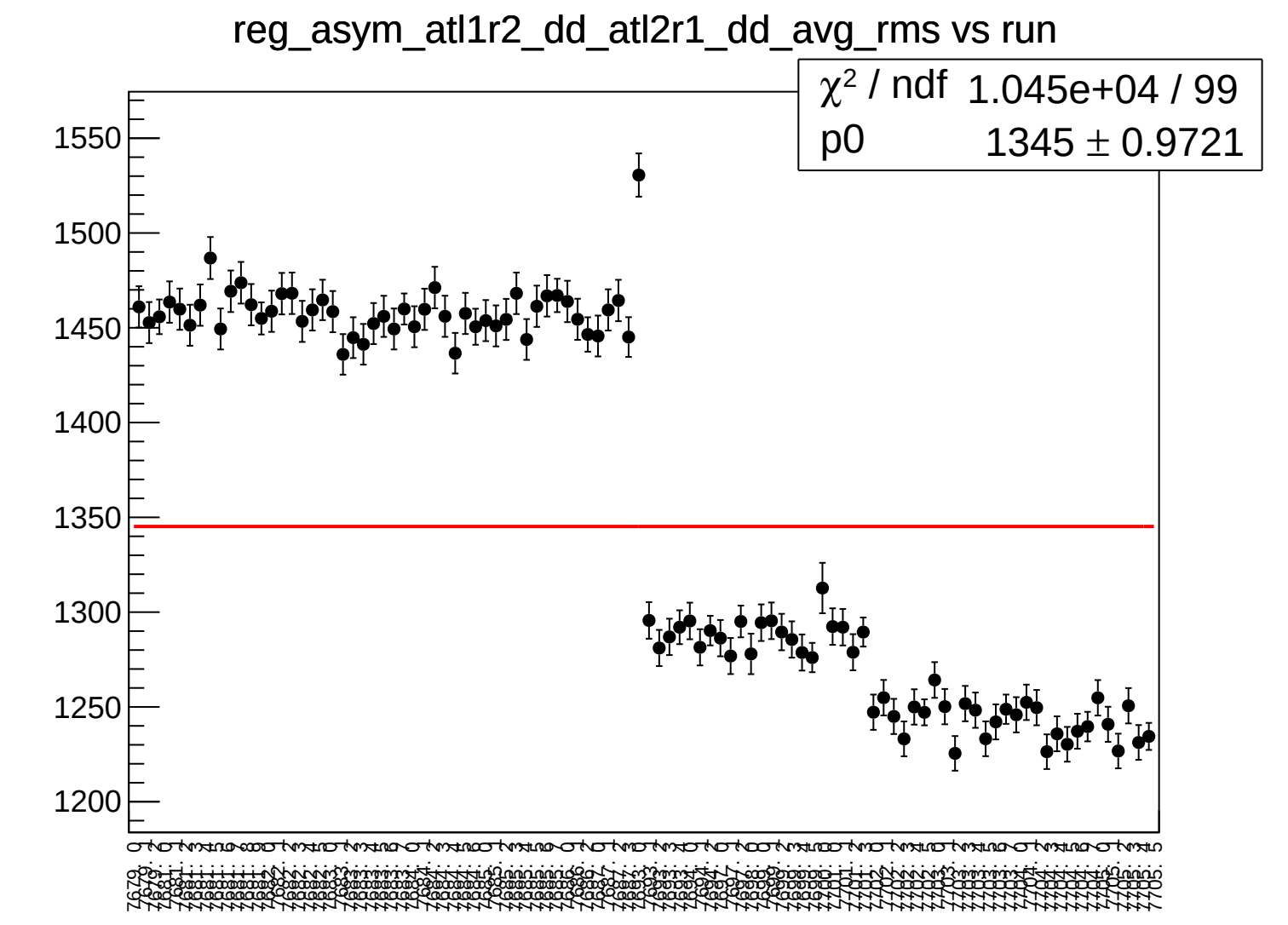

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 110.4 / 99
p0 2.336e−14 ± 2.039e−13
pull
Entries 100
Mean 80.79
Std Dev 0

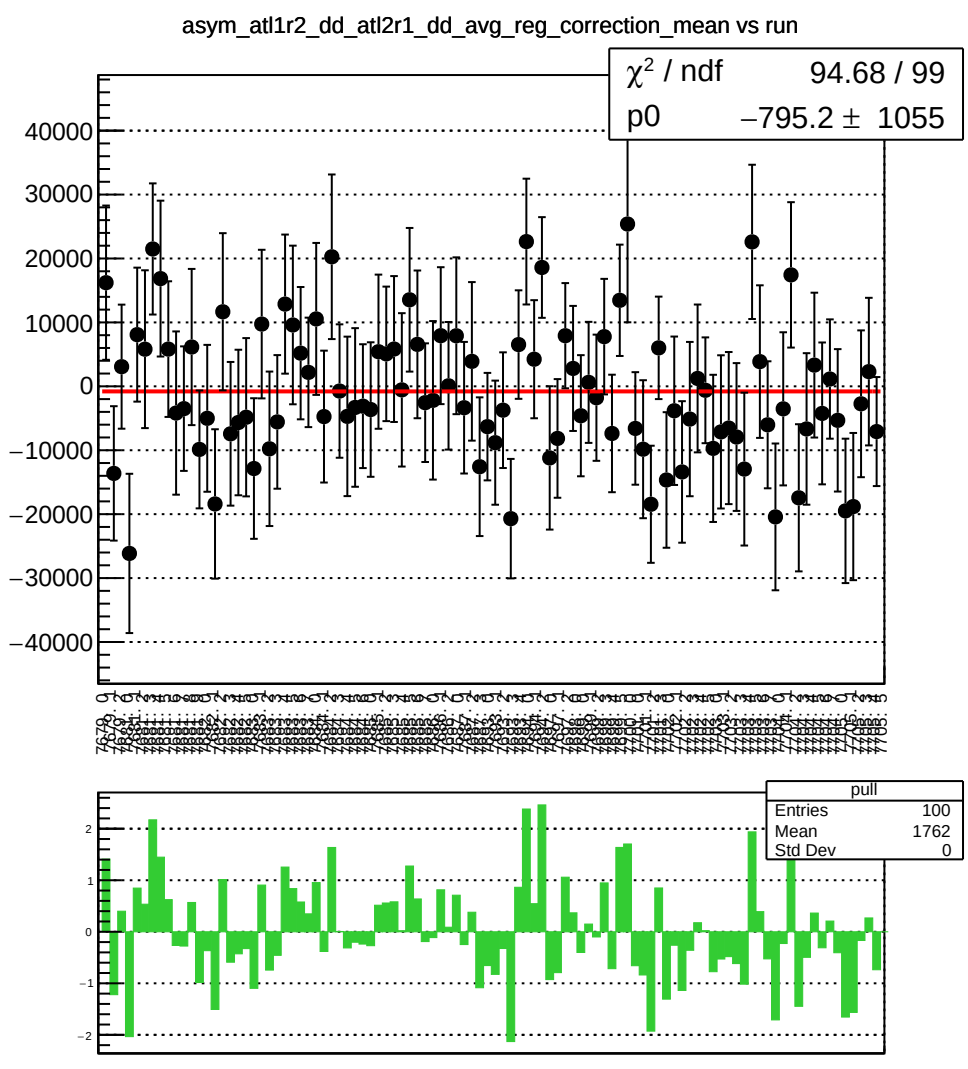

pull1D
Entries 100
Mean 0.06438
Std Dev 1.049

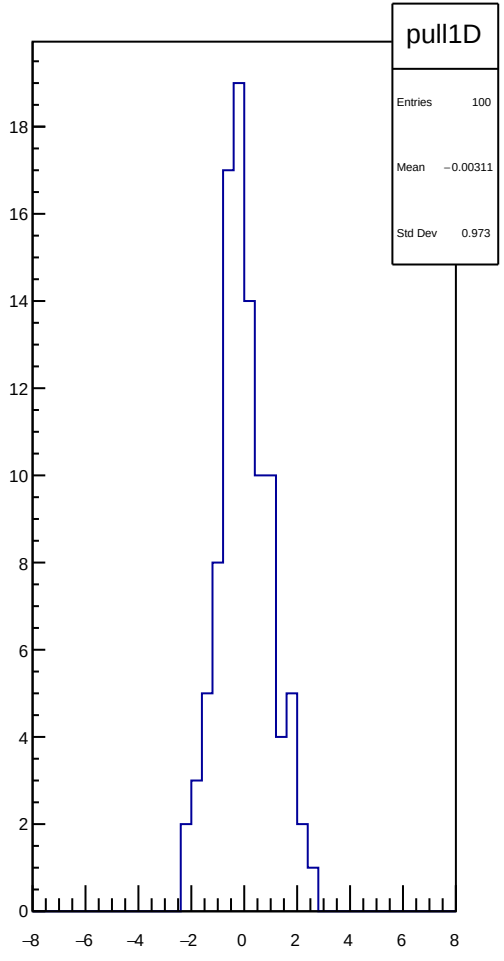

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
3
2.5
2
1.5
1
0.5
χ² / ndf 1.057e+06 / 99
p0 1.343e−10 ± 1.442e−13

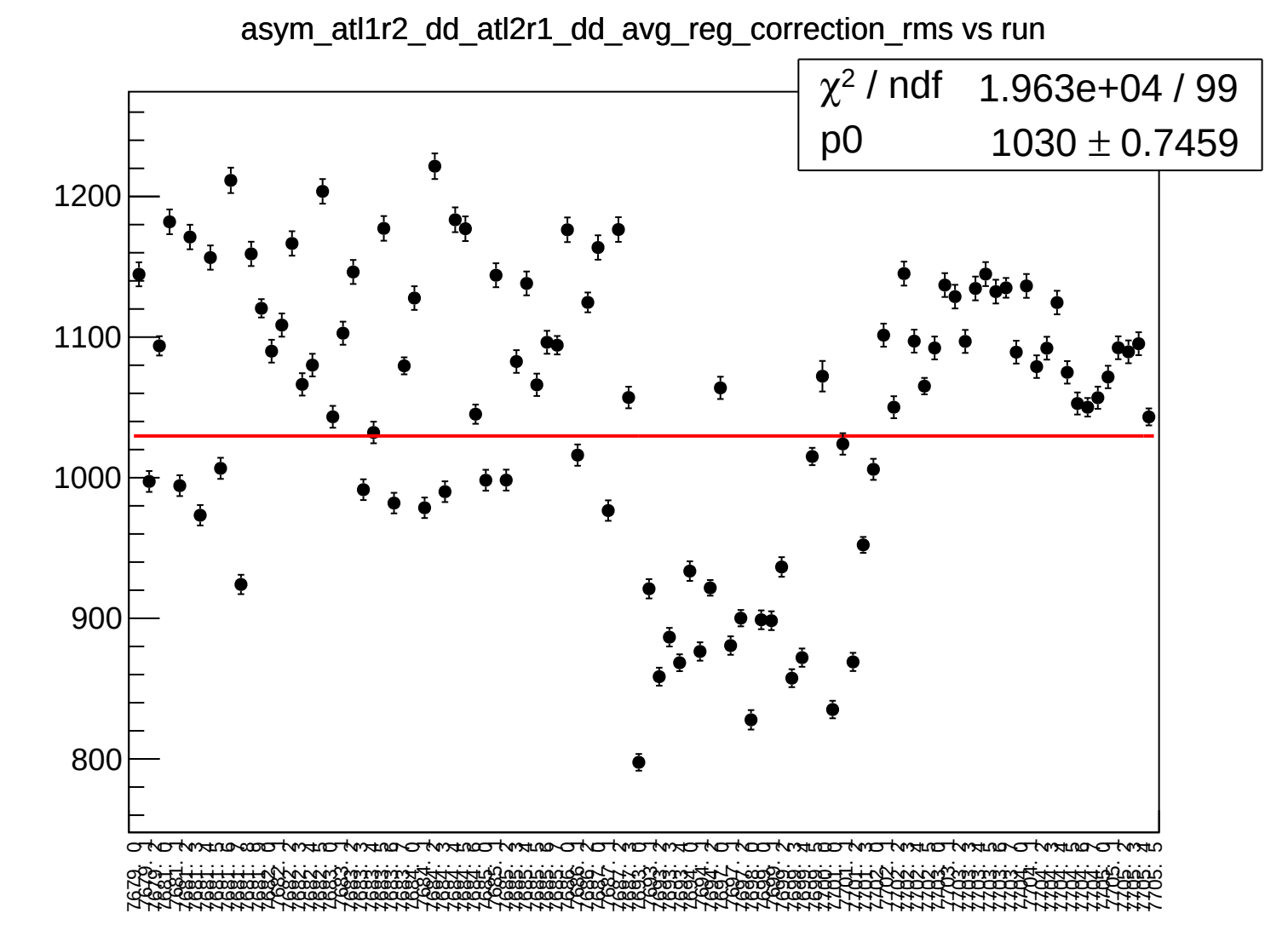

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 80.12 / 99
p0 −567.2 ± 1375
40000
20000
0
−20000
−40000
pull
Entries 100
Mean 61.72
Std Dev 80.04
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

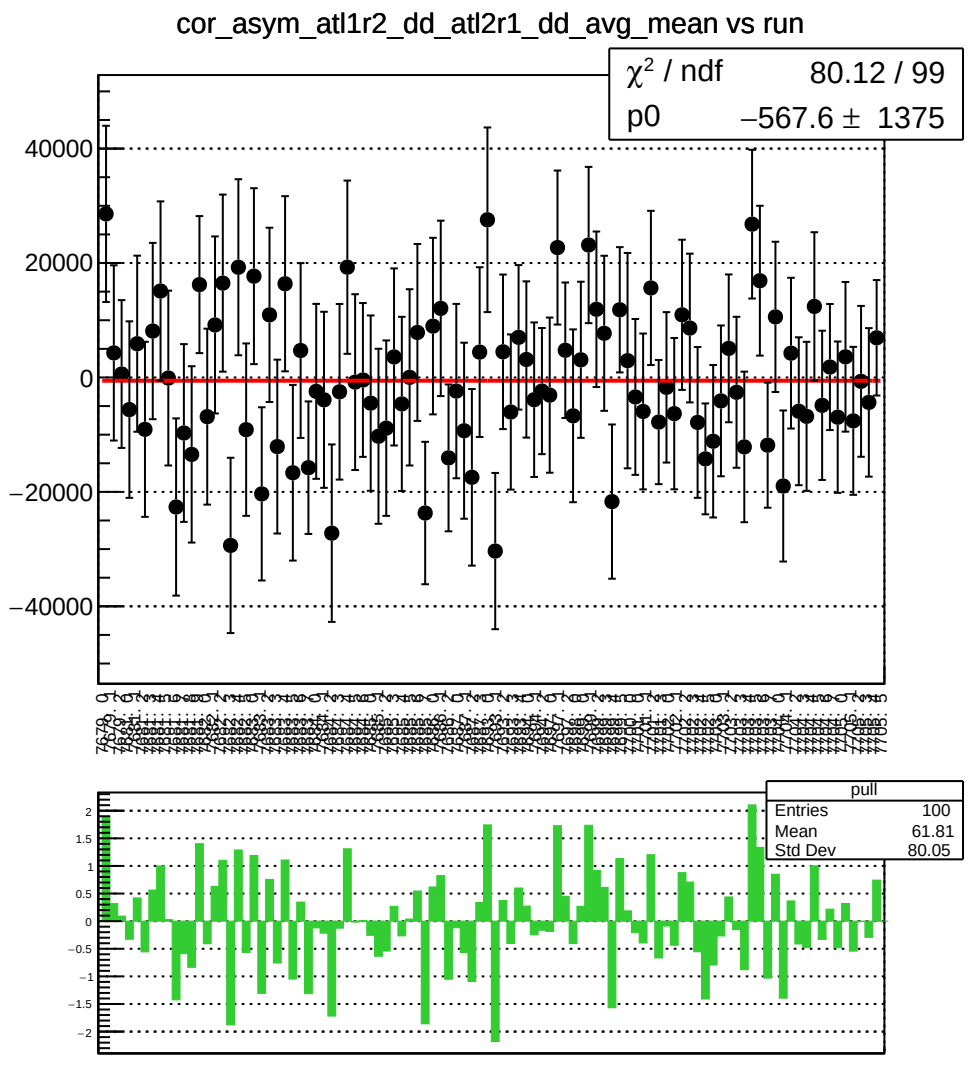

pull1D
Entries 100
Mean 0.00696
Std Dev 0.8951
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

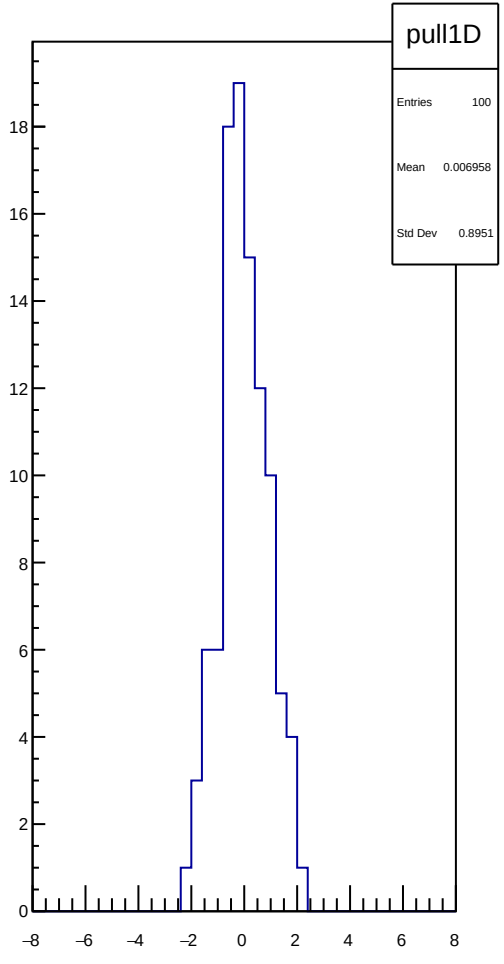

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1.045e+04 / 99
p0 1345 ± 0.9721
1550
1500
1450
1400
1350
1300
1250
1200

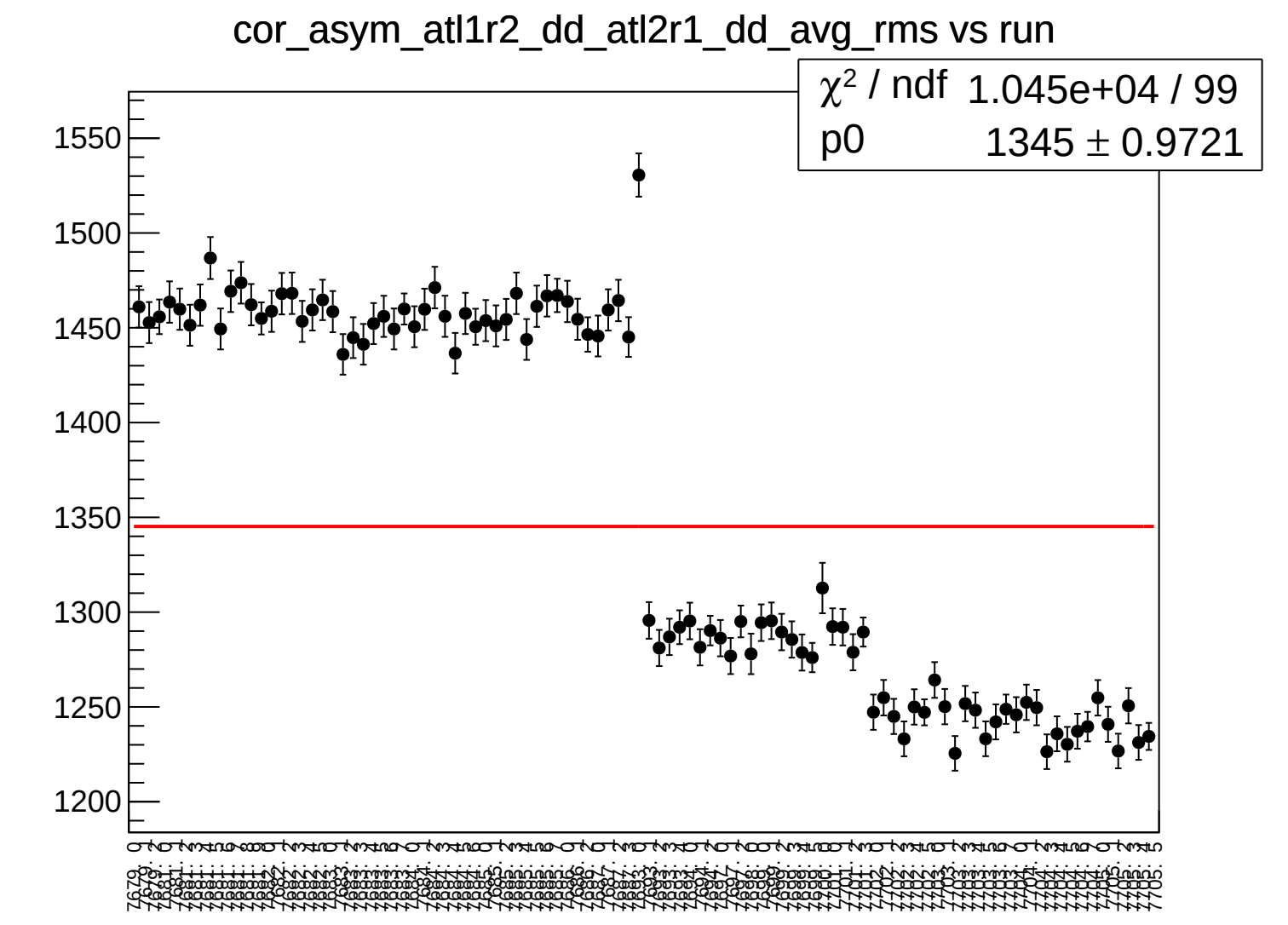

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 94.68 / 99
p0 −795.2 ± 1055
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 100
Mean 1762
Std Dev 0
2
1
0
−1
−2

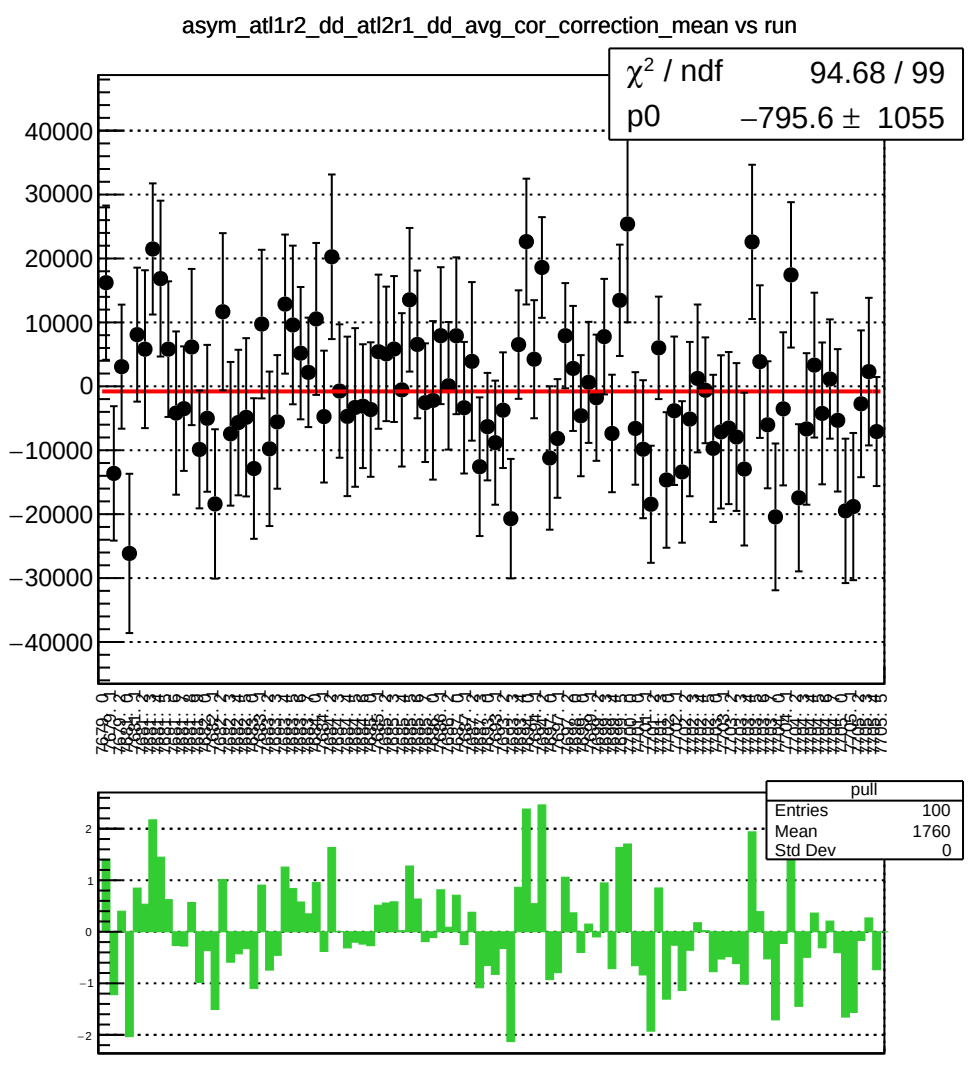

pull1D
Entries 100
Mean −0.00311
Std Dev 0.973
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

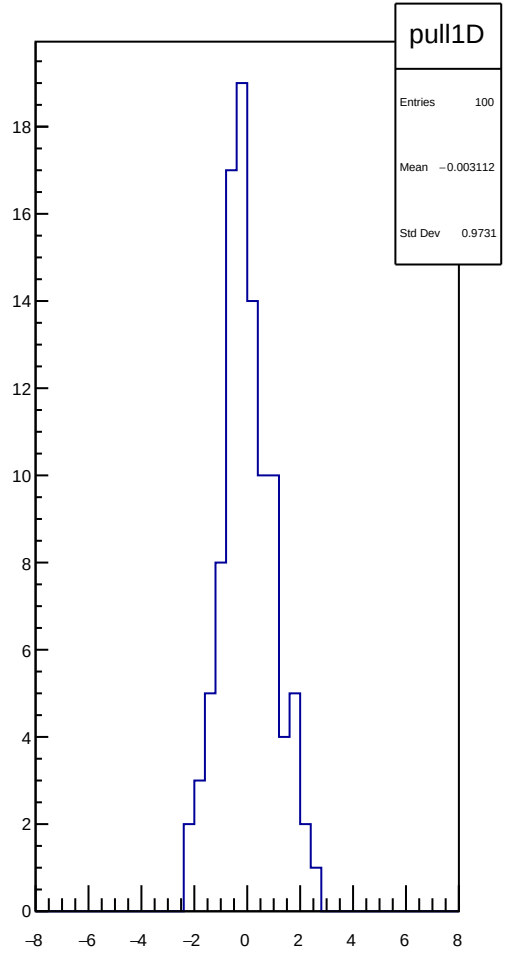

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 1.963e+04 / 99
p0 1030 ± 0.7459
1200
1100
1000
900
800

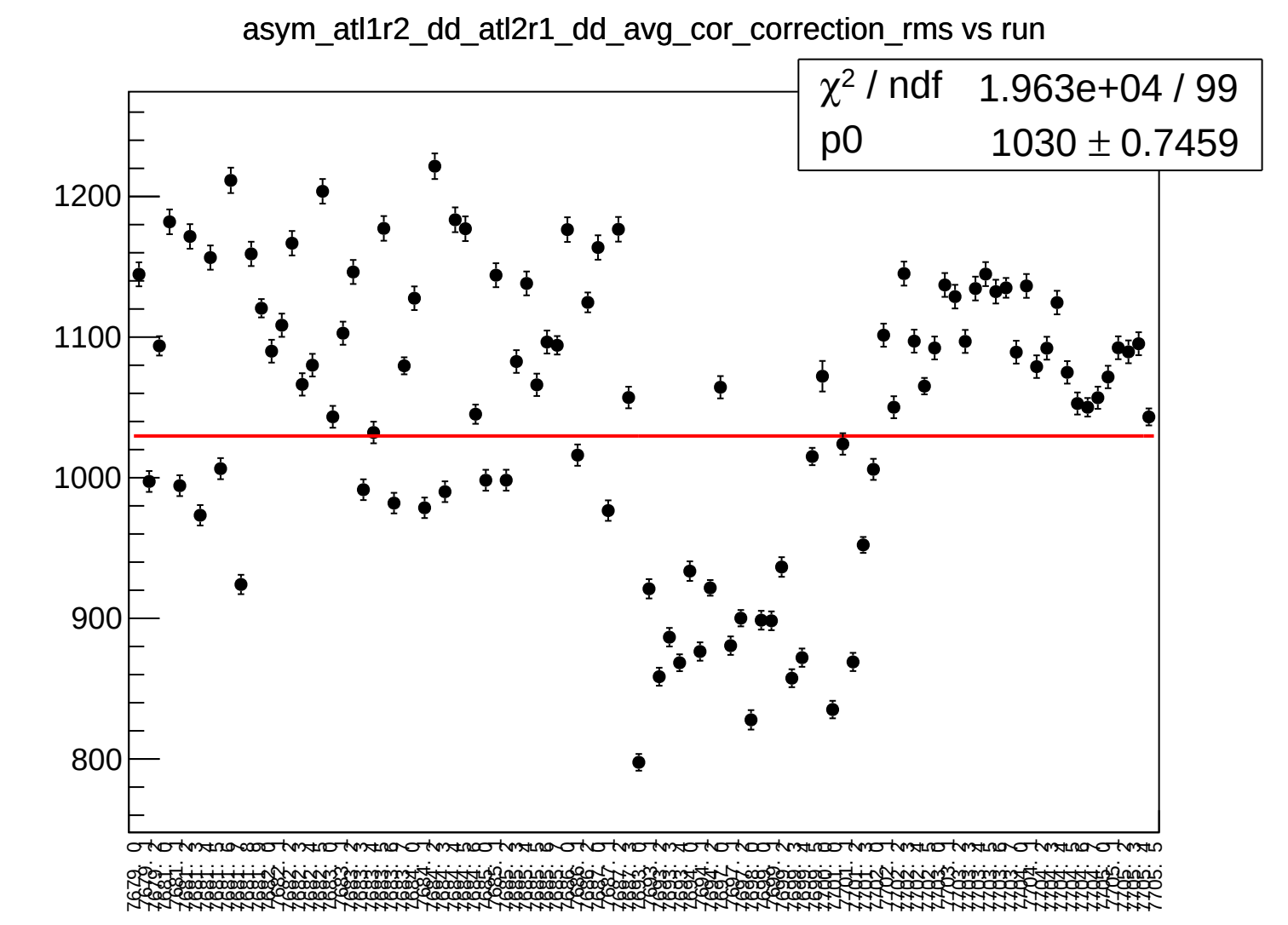

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 80.12 / 99
p0 −567.6 ± 1375
40000
20000
0
−20000
−40000
pull
Entries 100
Mean 61.81
Std Dev 80.05
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

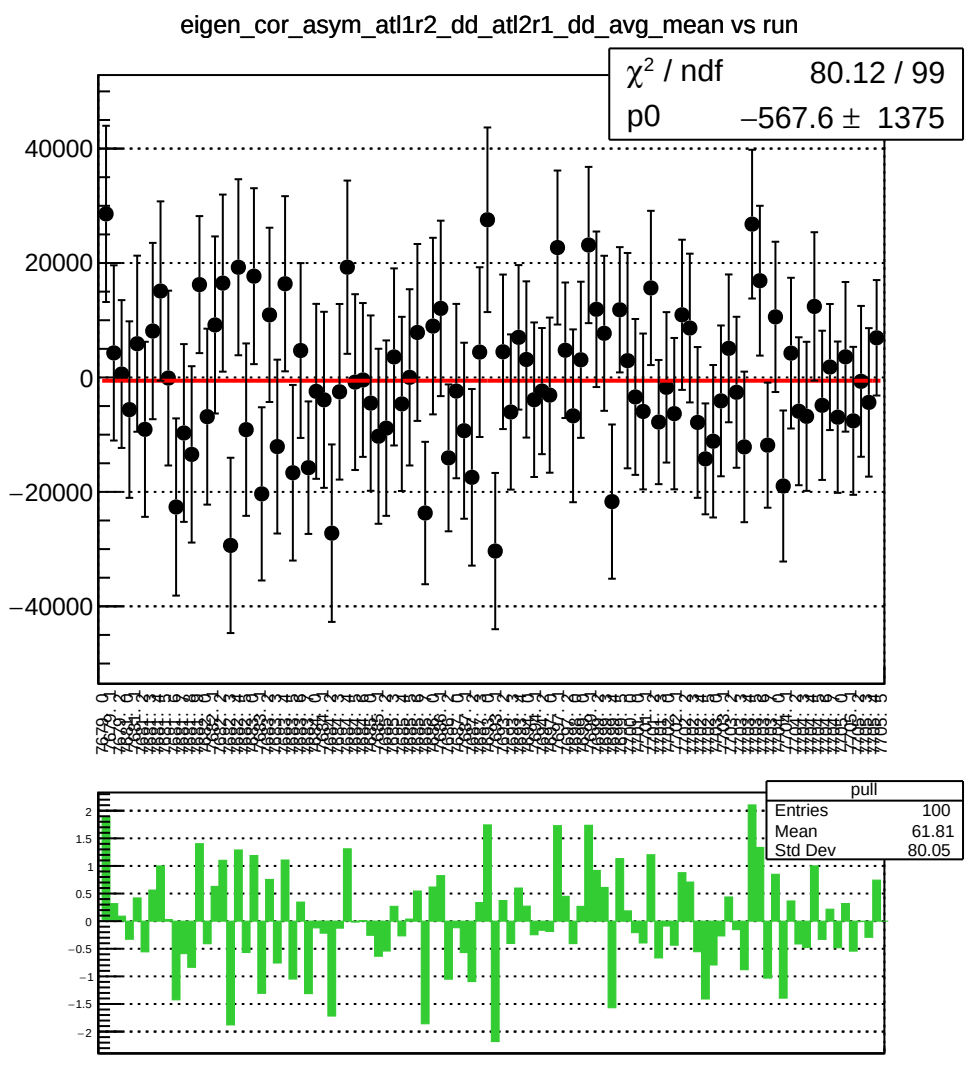

pull1D
Entries 100
Mean 0.006958
Std Dev 0.8951
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

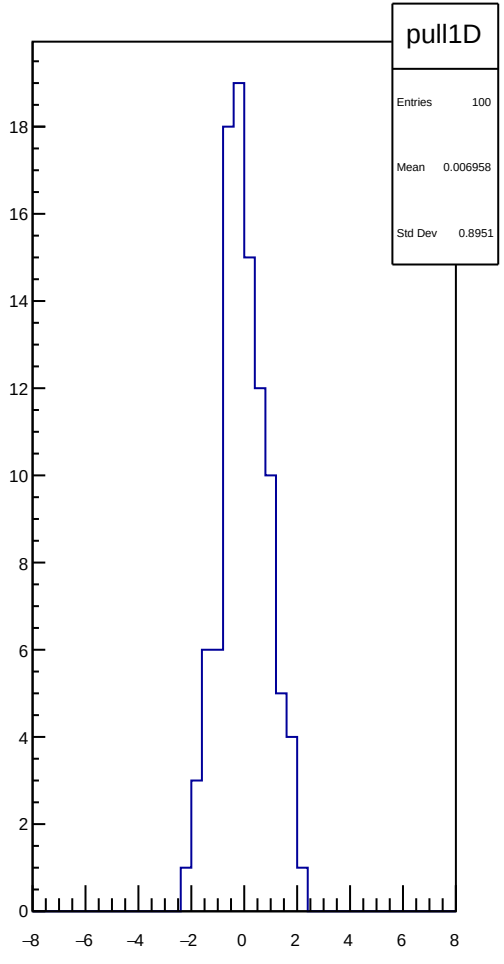

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1.045e+04 / 99
p0 1345 ± 0.9721
1550
1500
1450
1400
1350
1300
1250
1200

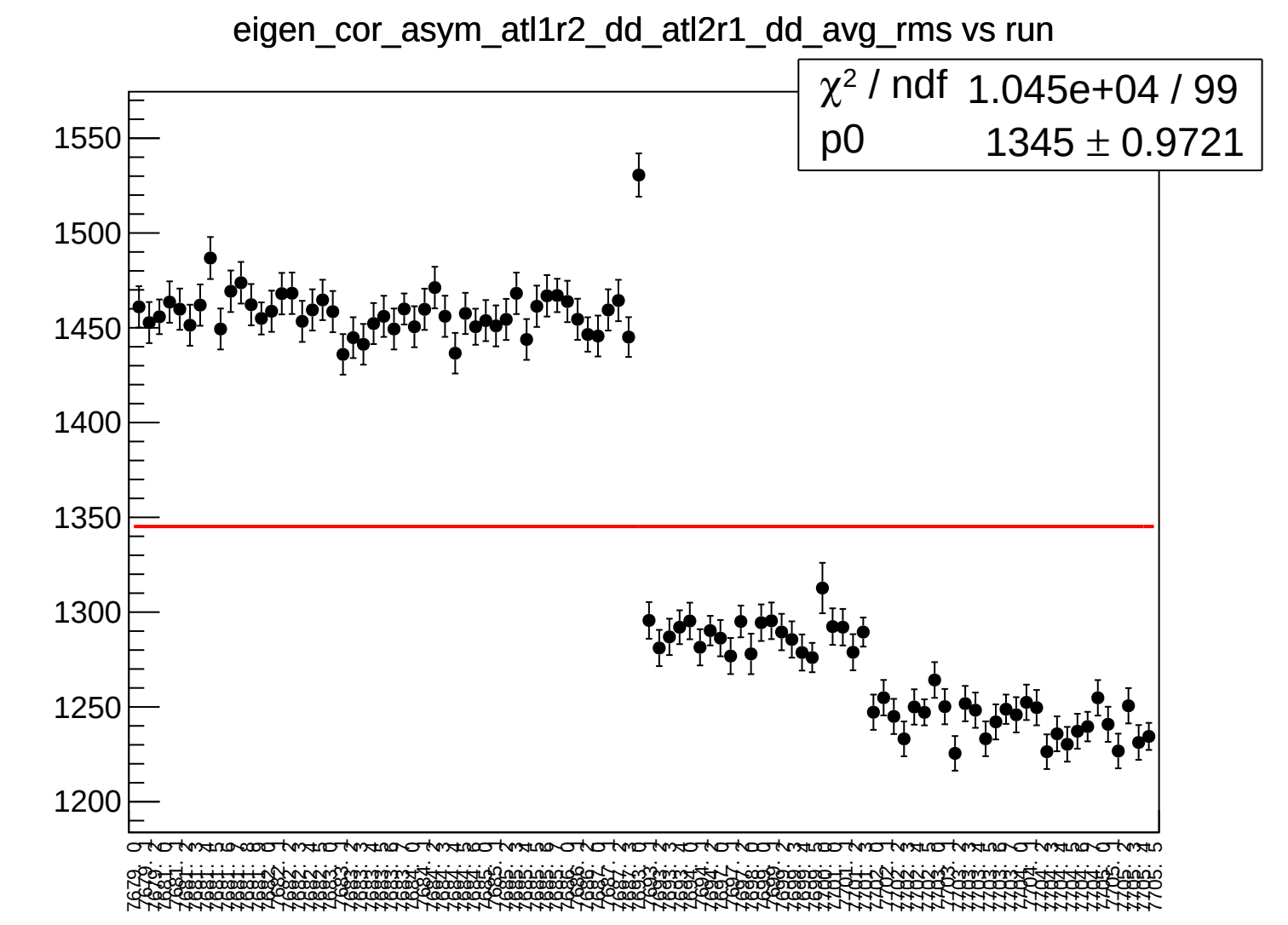

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 94.68 / 99
p0 −795.6 ± 1055
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 100
Mean 1760
Std Dev 0
2
1
0
−1
−2

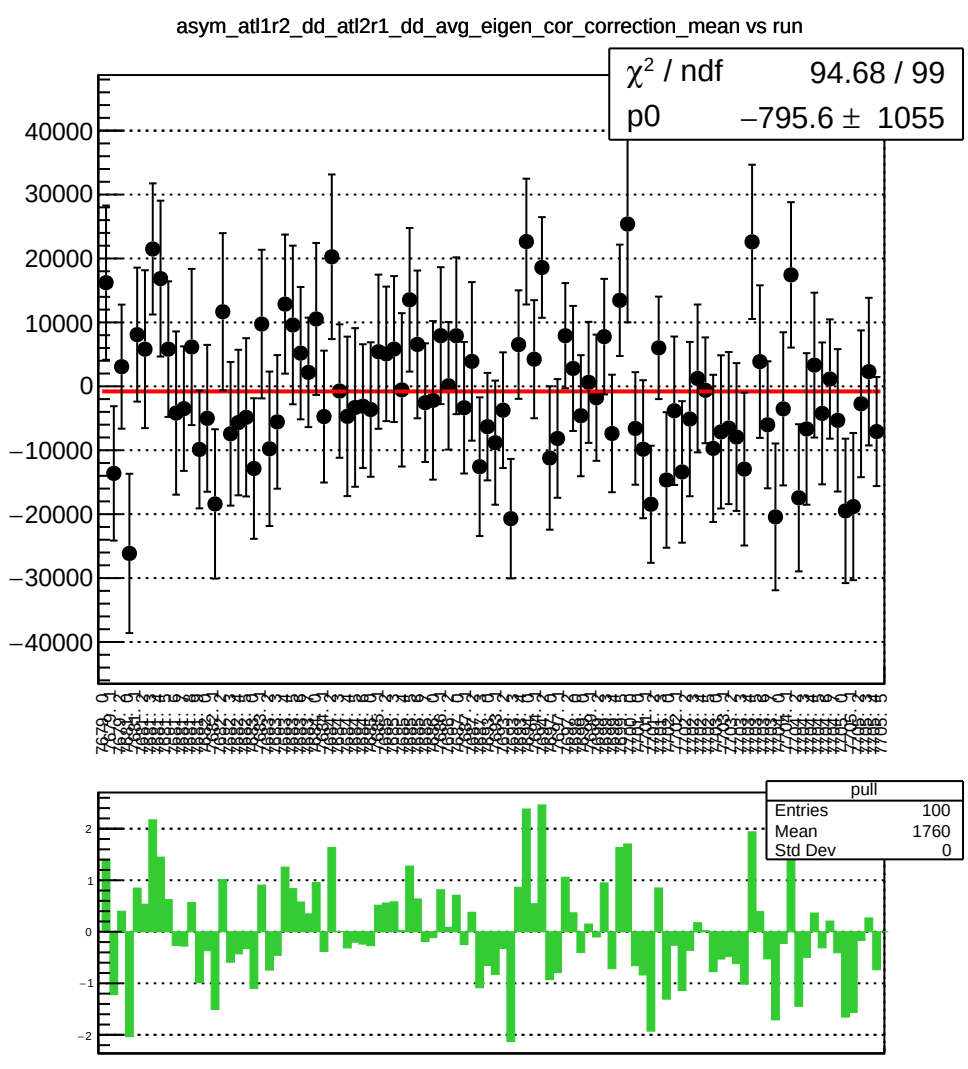

pull1D
Entries 100
Mean −0.003112
Std Dev 0.9731
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

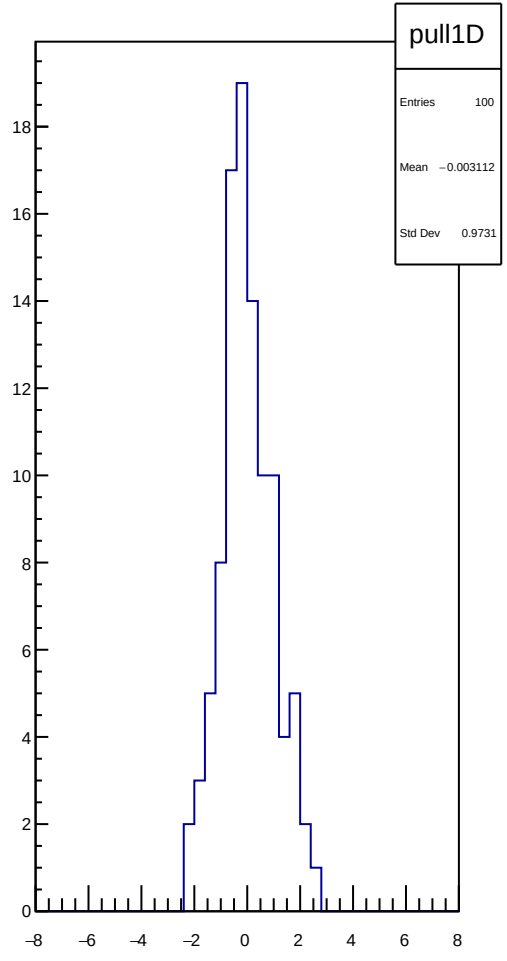

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 1.963e+04 / 99
p0 1030 ± 0.7459
1200
1100
1000
900
800

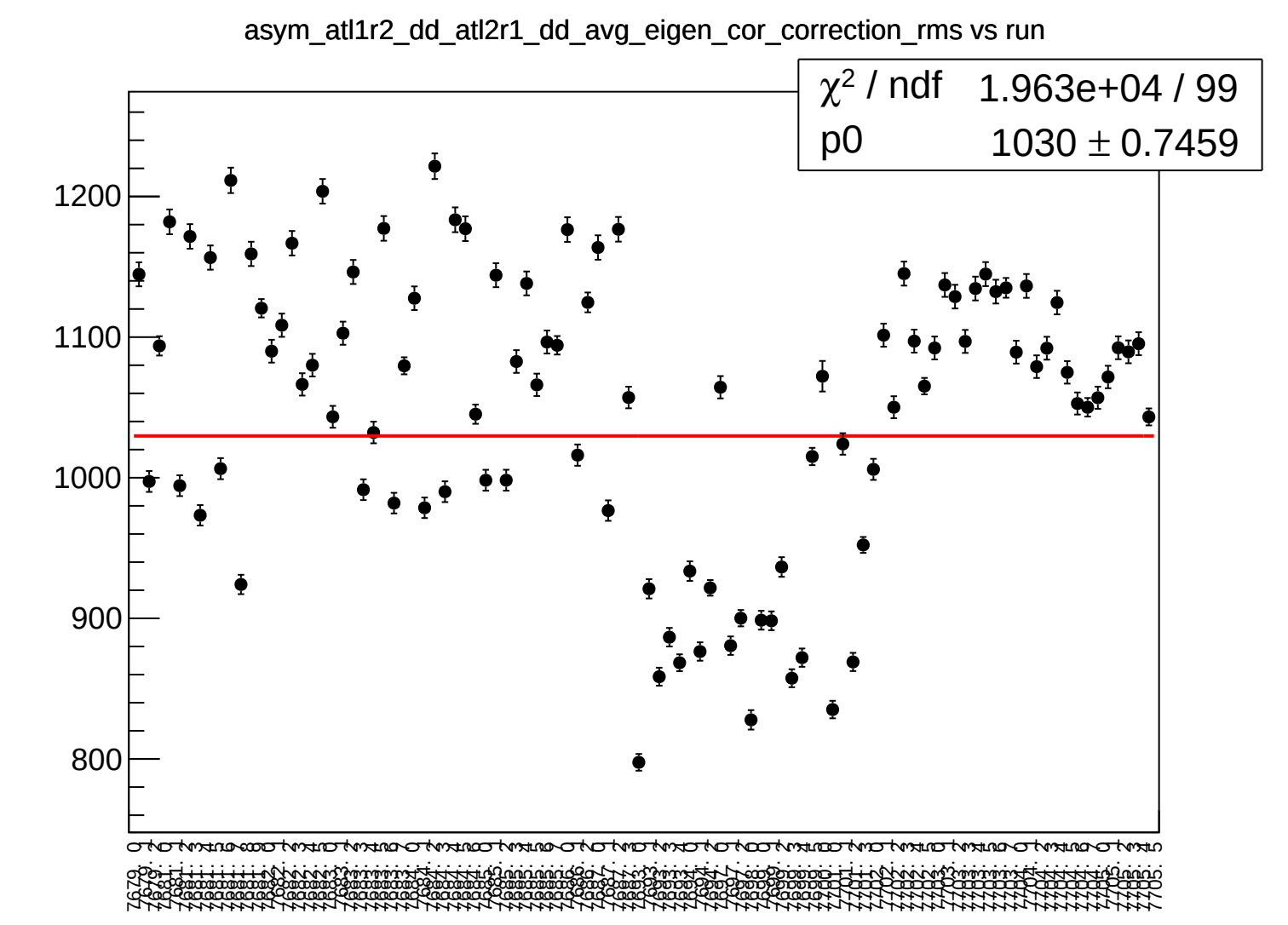

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 80.12 / 99
p0 −567.6 ± 1375
40000
20000
0
−20000
−40000
pull
Entries 100
Mean 61.81
Std Dev 80.05
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

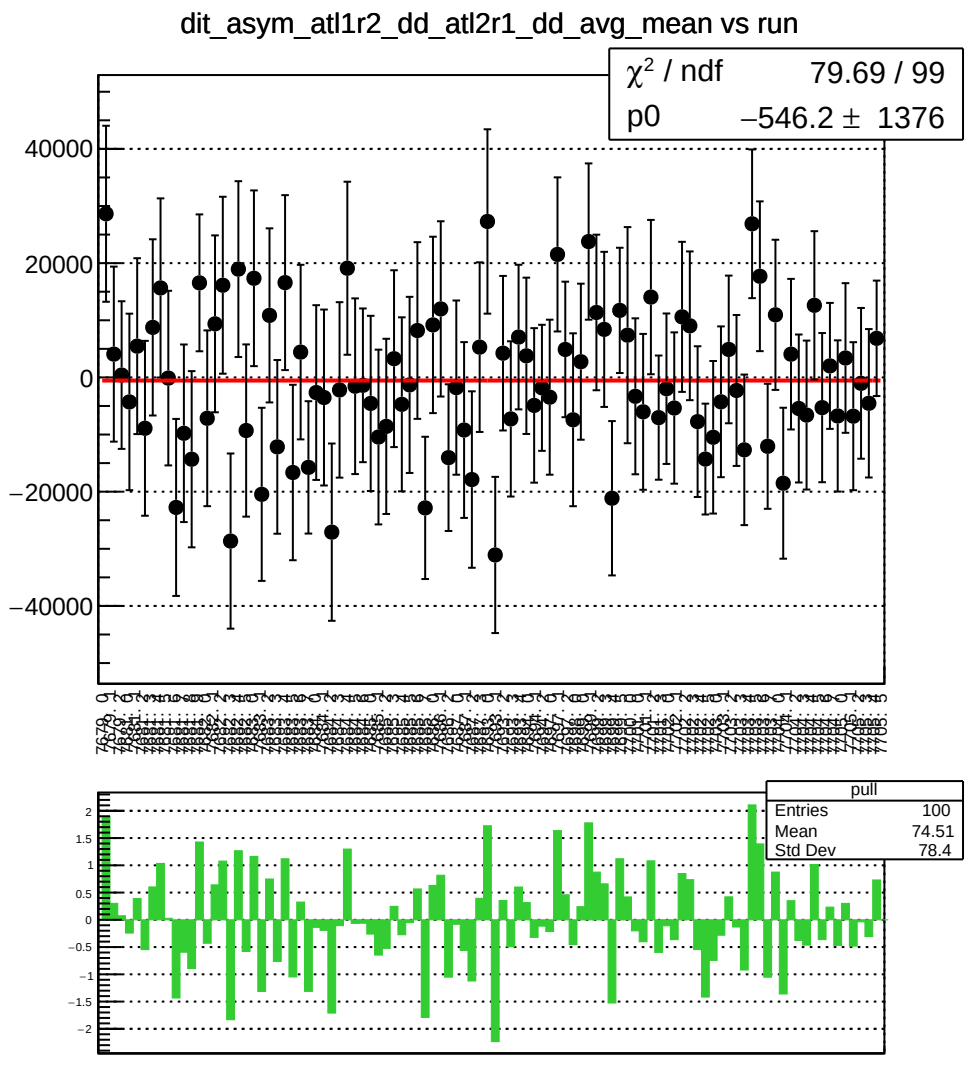

pull1D
Entries 100
Mean 0.006958
Std Dev 0.8951
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

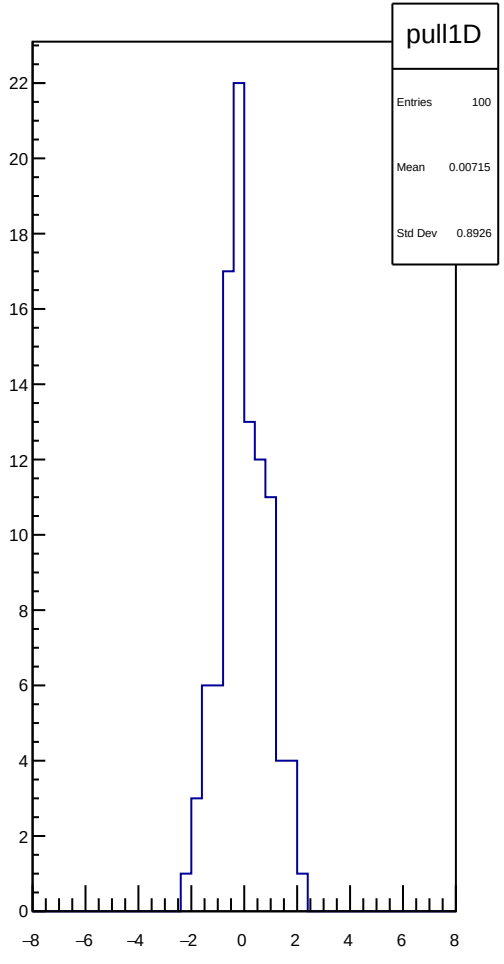

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1.045e+04 / 99
p0 1345 ± 0.9721
1550
1500
1450
1400
1350
1300
1250
1200

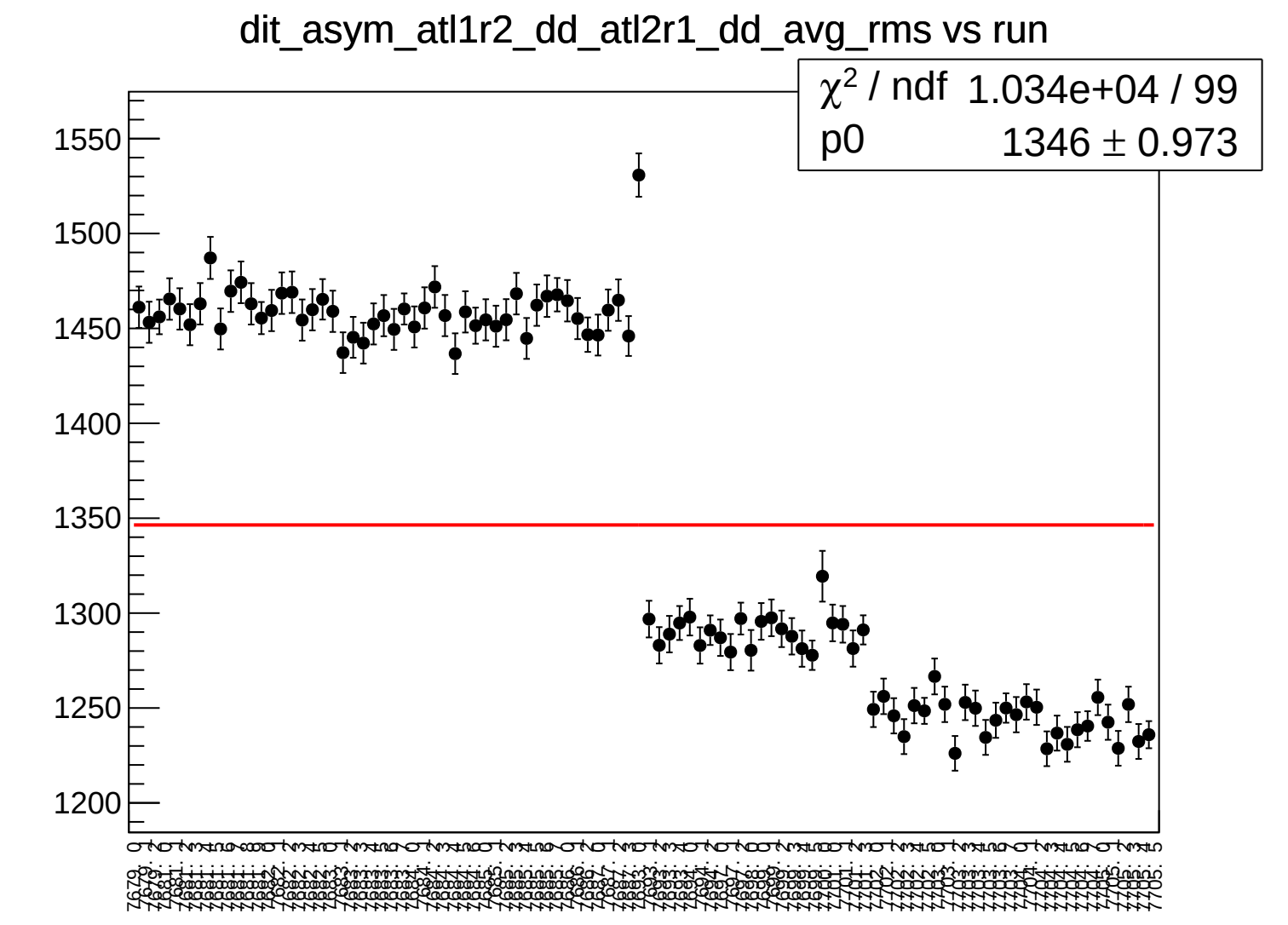

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 94.68 / 99
p0 −795.6 ± 1055
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 100
Mean 1760
Std Dev 0
2
1
0
−1
−2

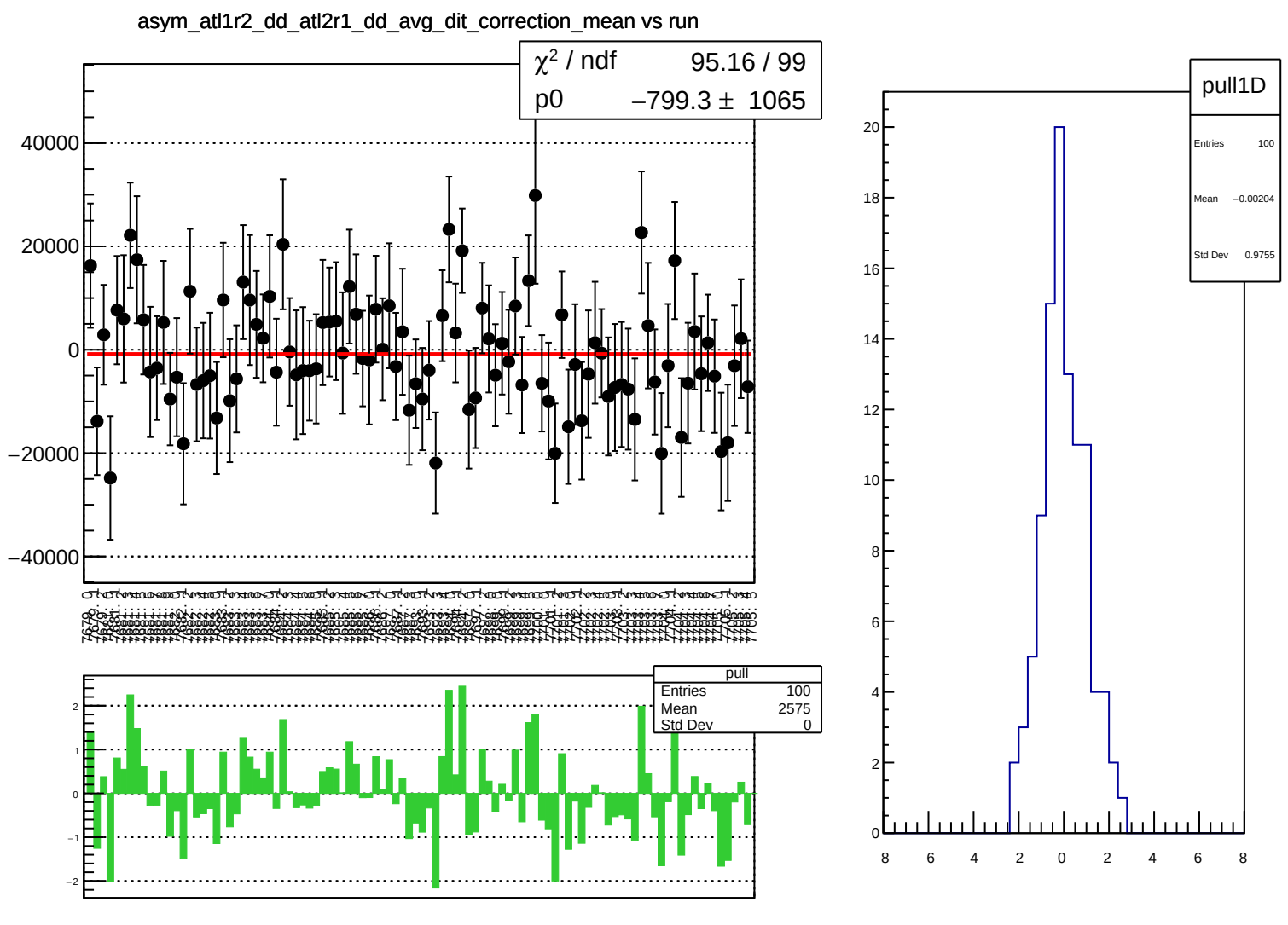

pull1D
Entries 100
Mean −0.003112
Std Dev 0.9731
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

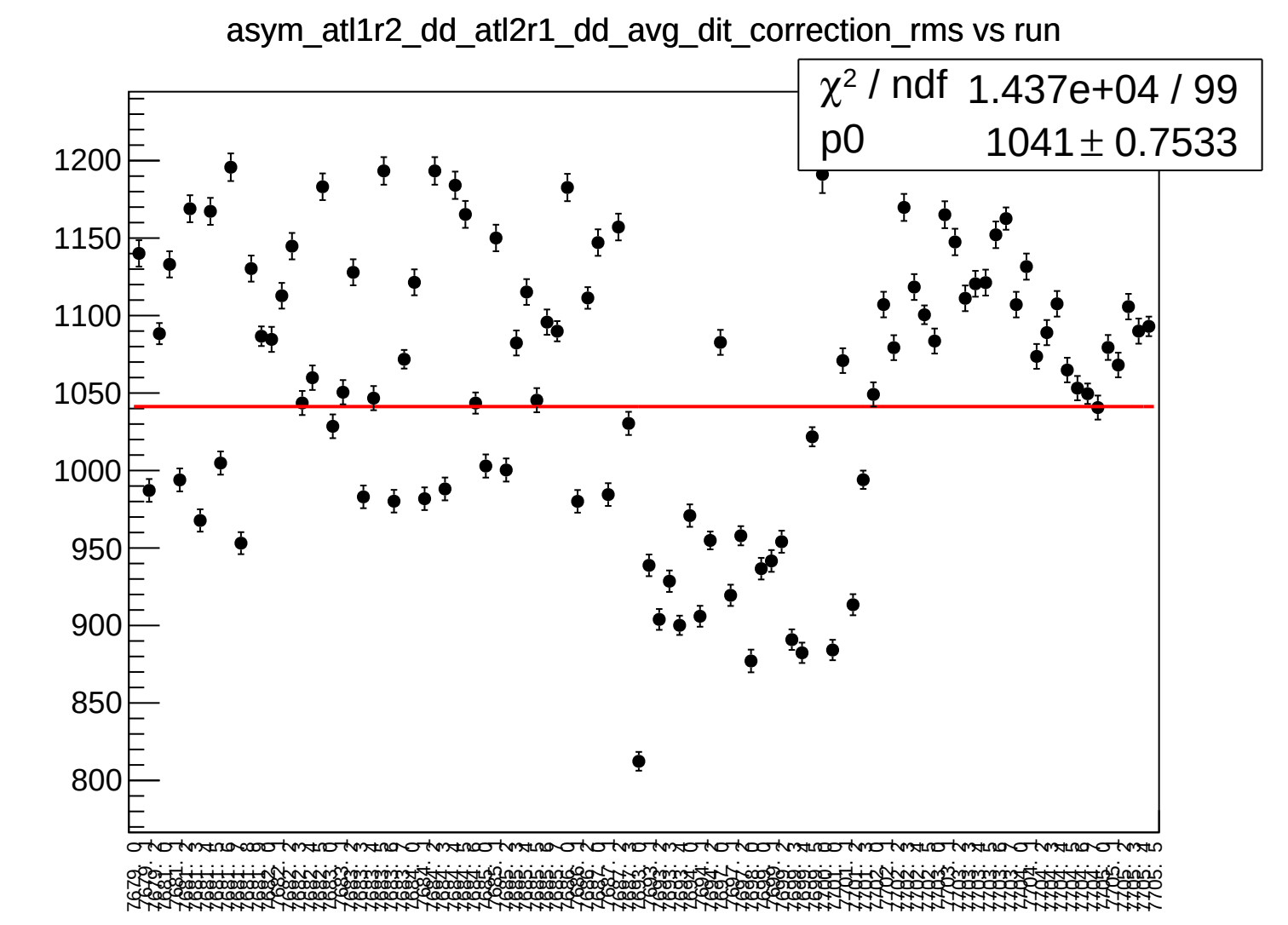

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.963e+04 / 99
p0 1030 ± 0.7459
1200
1100
1000
900
800

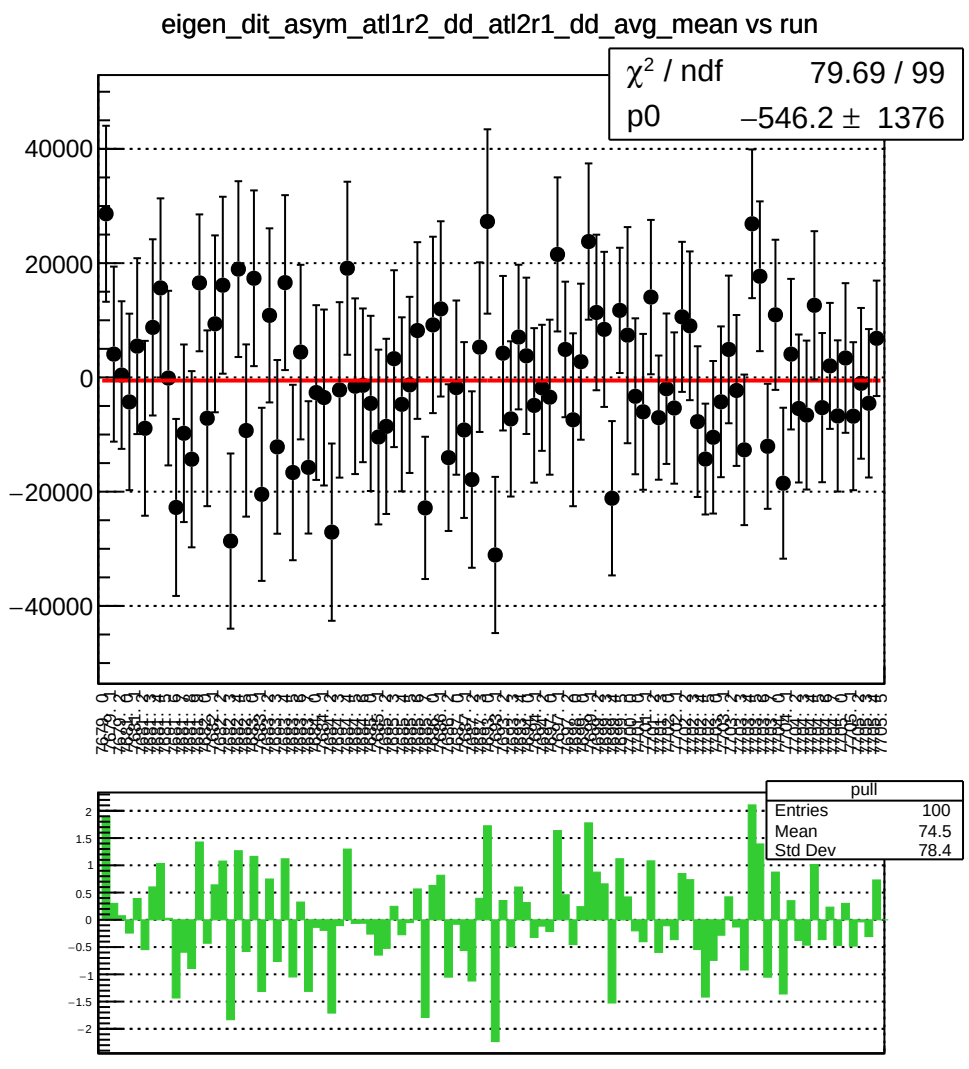

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 79.69 / 99
p0 −546.2 ± 1376
40000
20000
0
−20000
−40000
pull
Entries 100
Mean 74.51
Std Dev 78.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

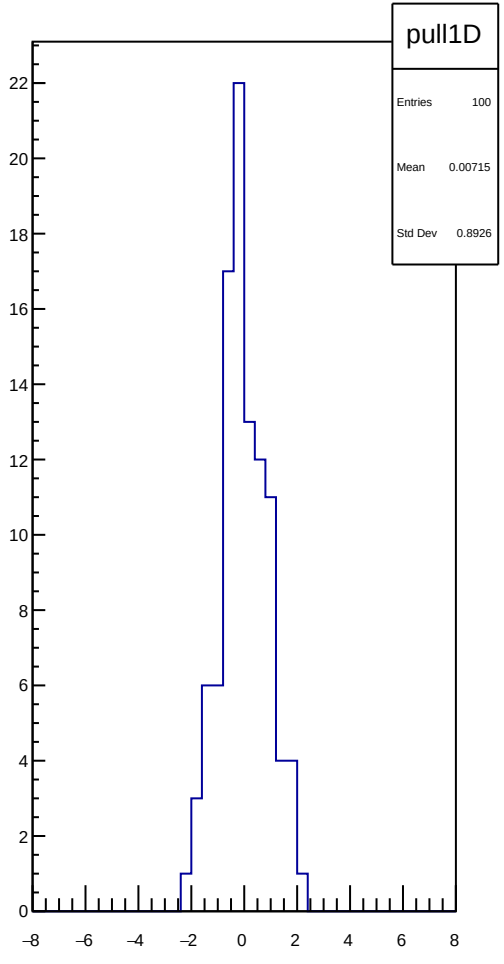

pull1D
Entries 100
Mean 0.00715
Std Dev 0.8926
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

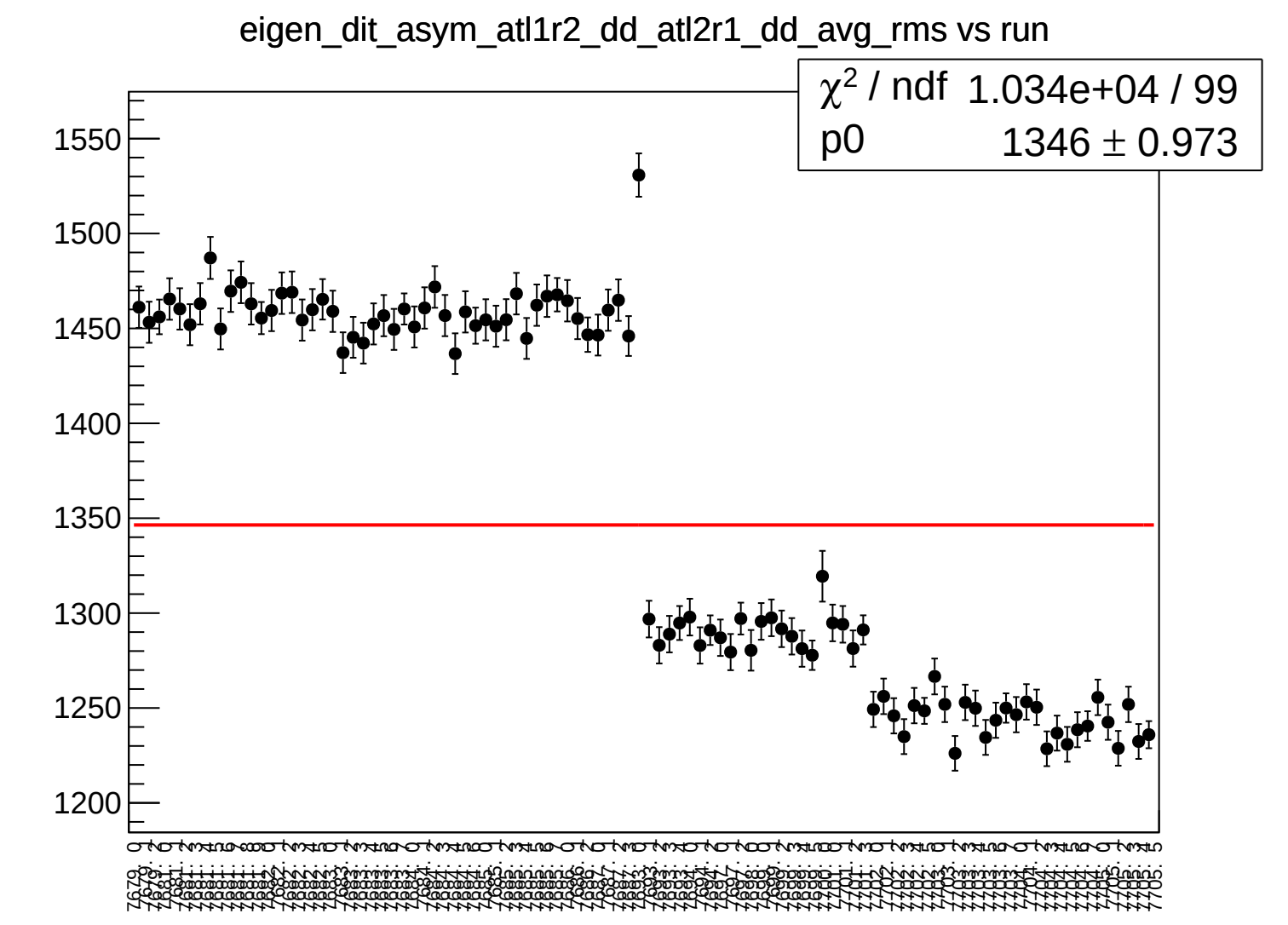

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1.034e+04 / 99
p0 1346 ± 0.973
1550
1500
1450
1400
1350
1300
1250
1200

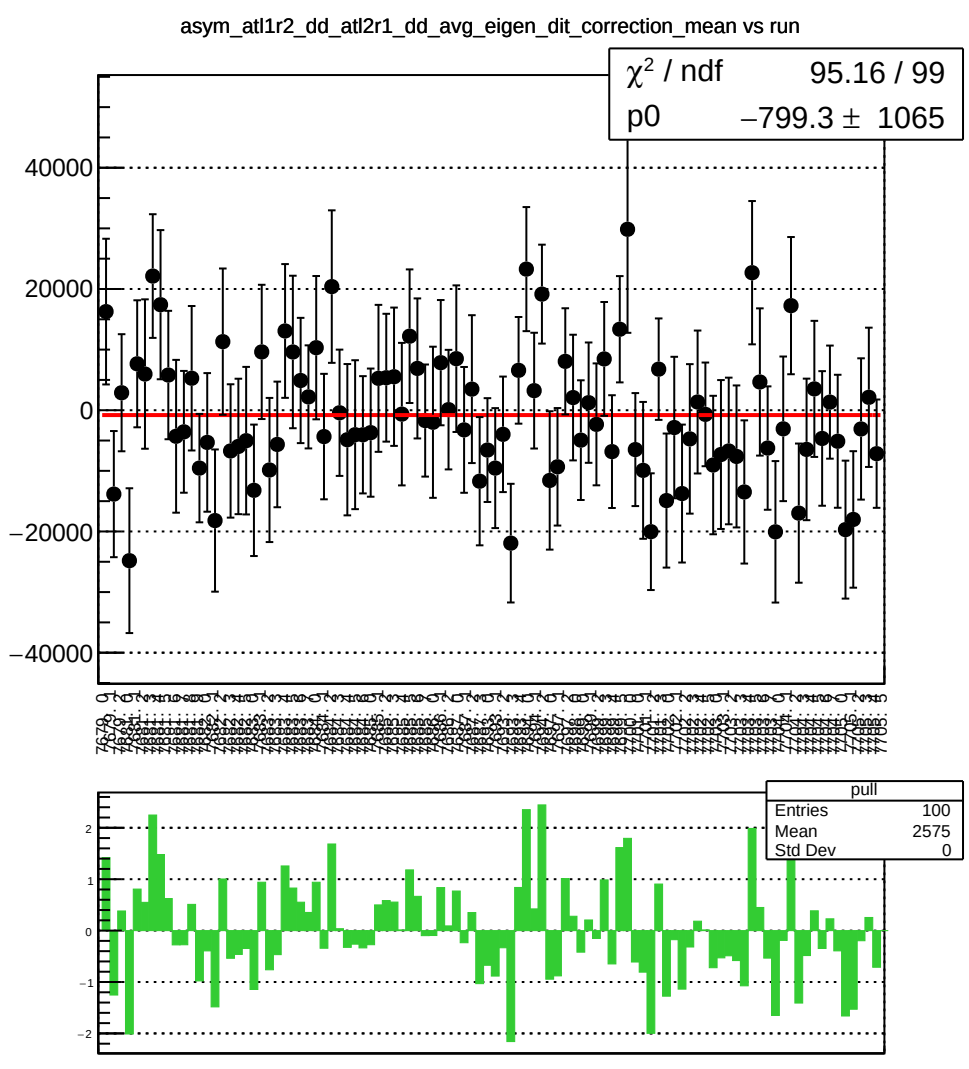

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 95.16 / 99
p0 −799.3 ± 1065
40000
20000
0
−20000
−40000
pull
Entries 100
Mean 2575
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.00204
Std Dev 0.9755
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

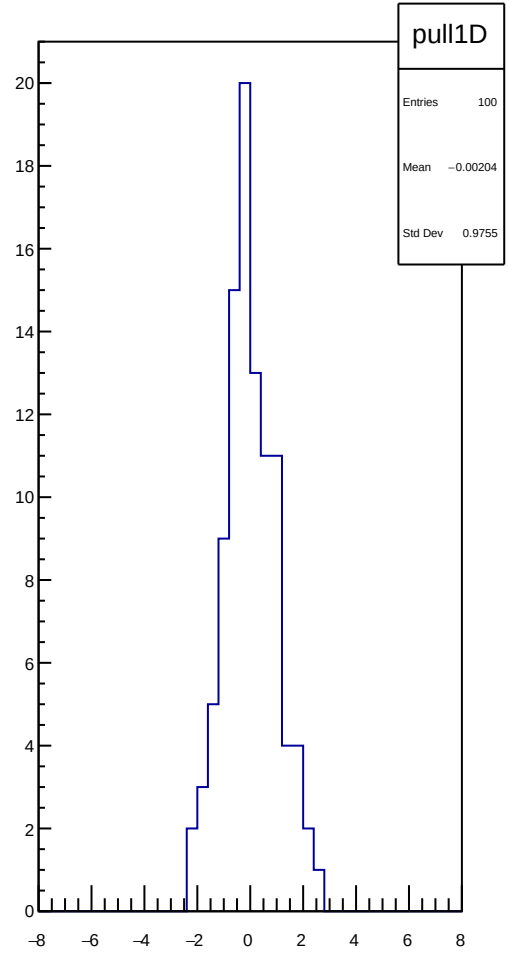

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 1.437e+04 / 99
p0 1041 ± 0.7533
1200
1150
1100
1050
1000
950
900
850
800

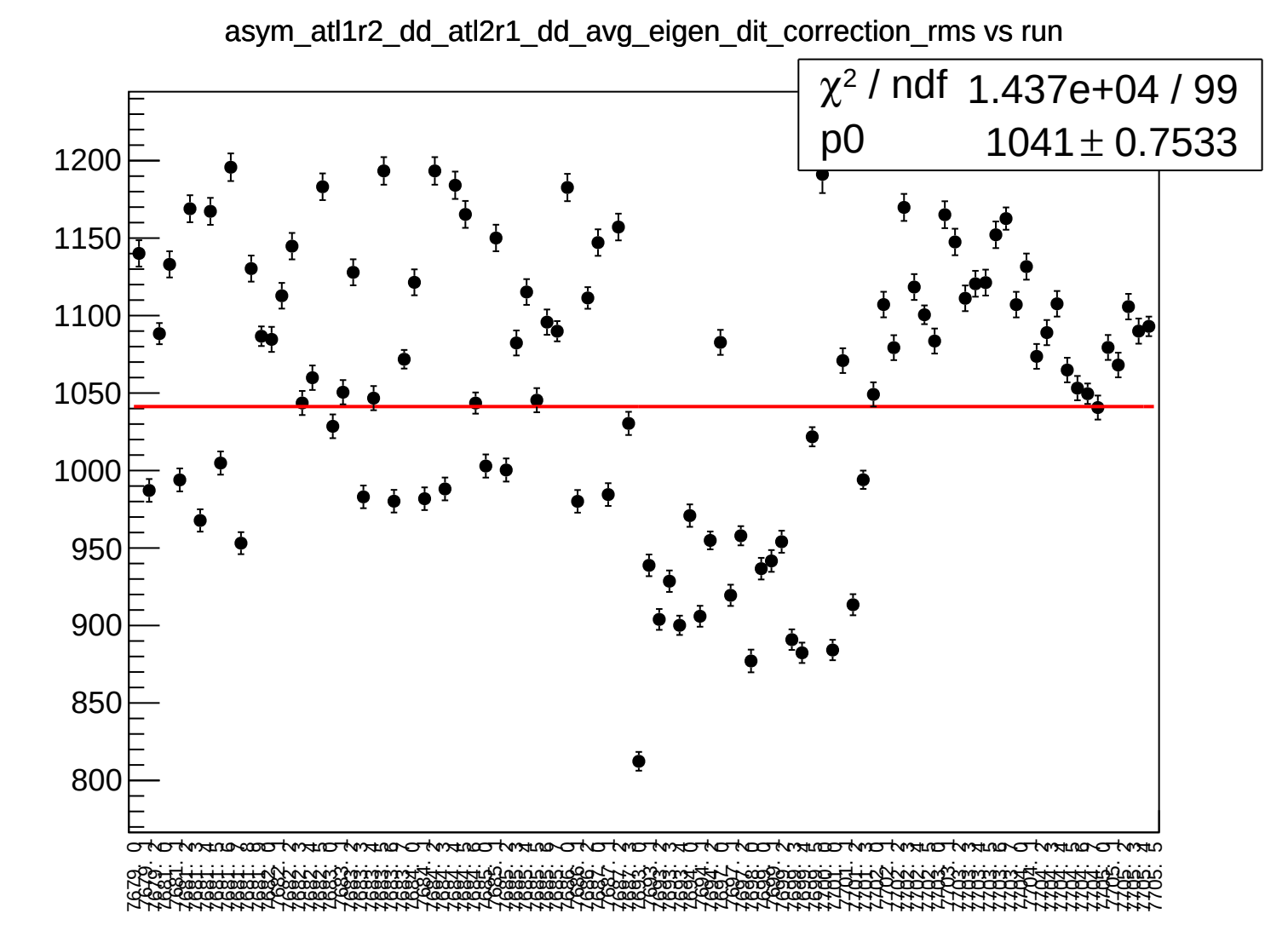

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 79.69 / 99
p0 −546.2 ± 1376
40000
20000
0
−20000
−40000
pull
Entries 100
Mean 74.5
Std Dev 78.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

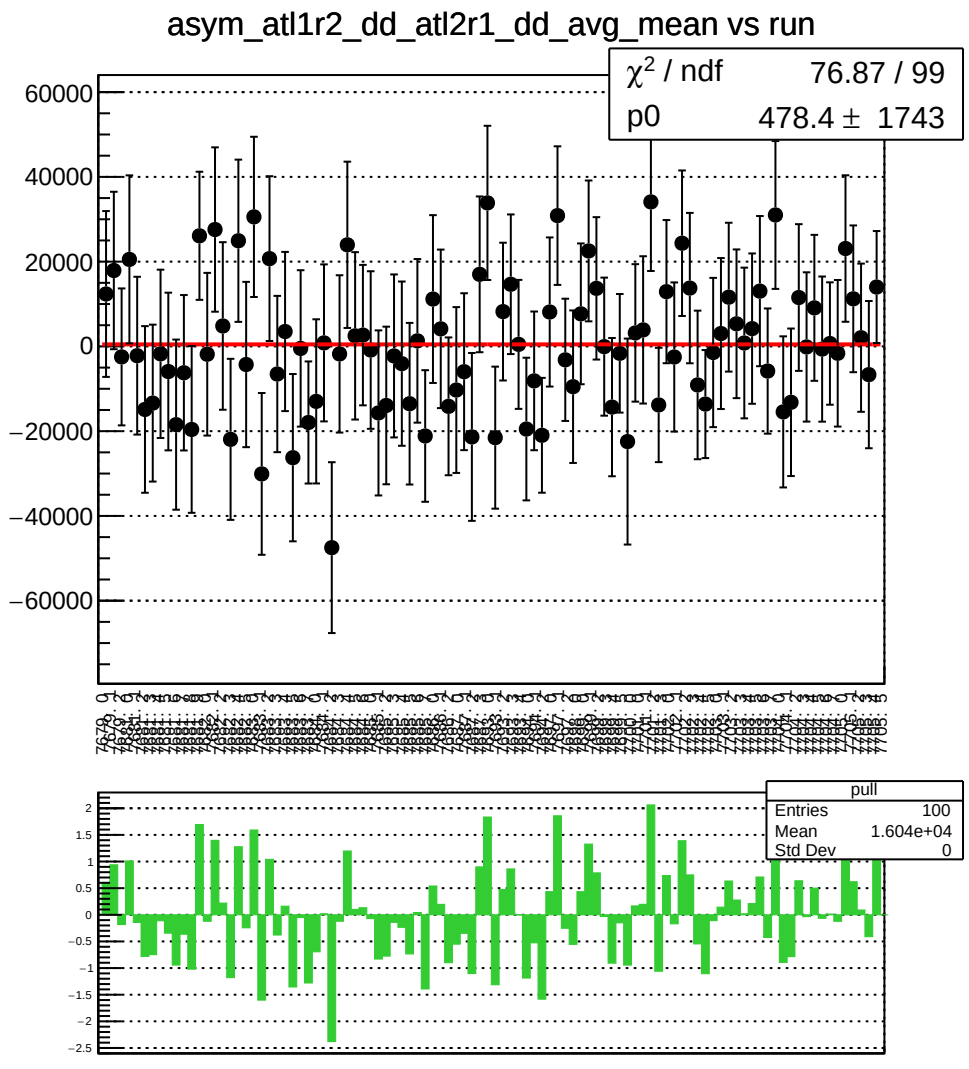

pull1D
Entries 100
Mean 0.00715
Std Dev 0.8926
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

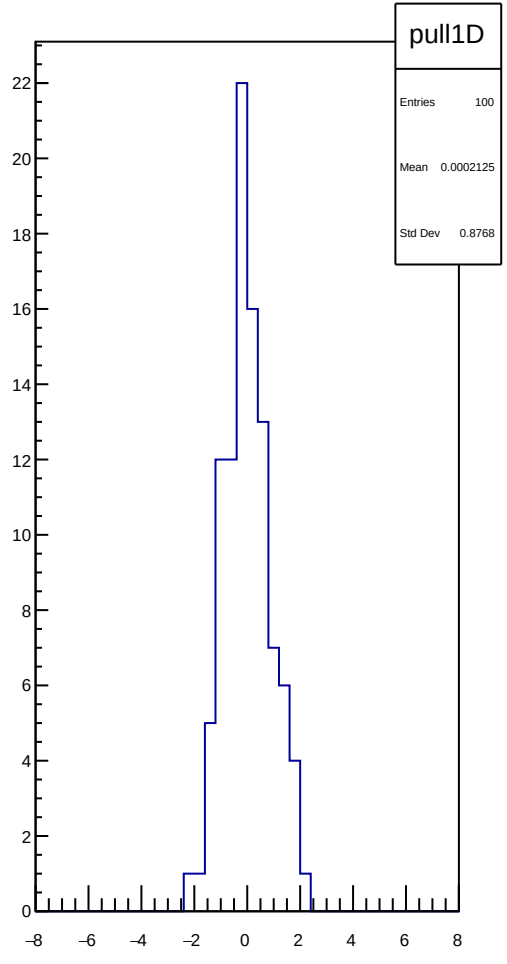

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ^2 / ndf 1.034e+04 / 99
p0 1346 ± 0.973
1550
1500
1450
1400
1350
1300
1250
1200

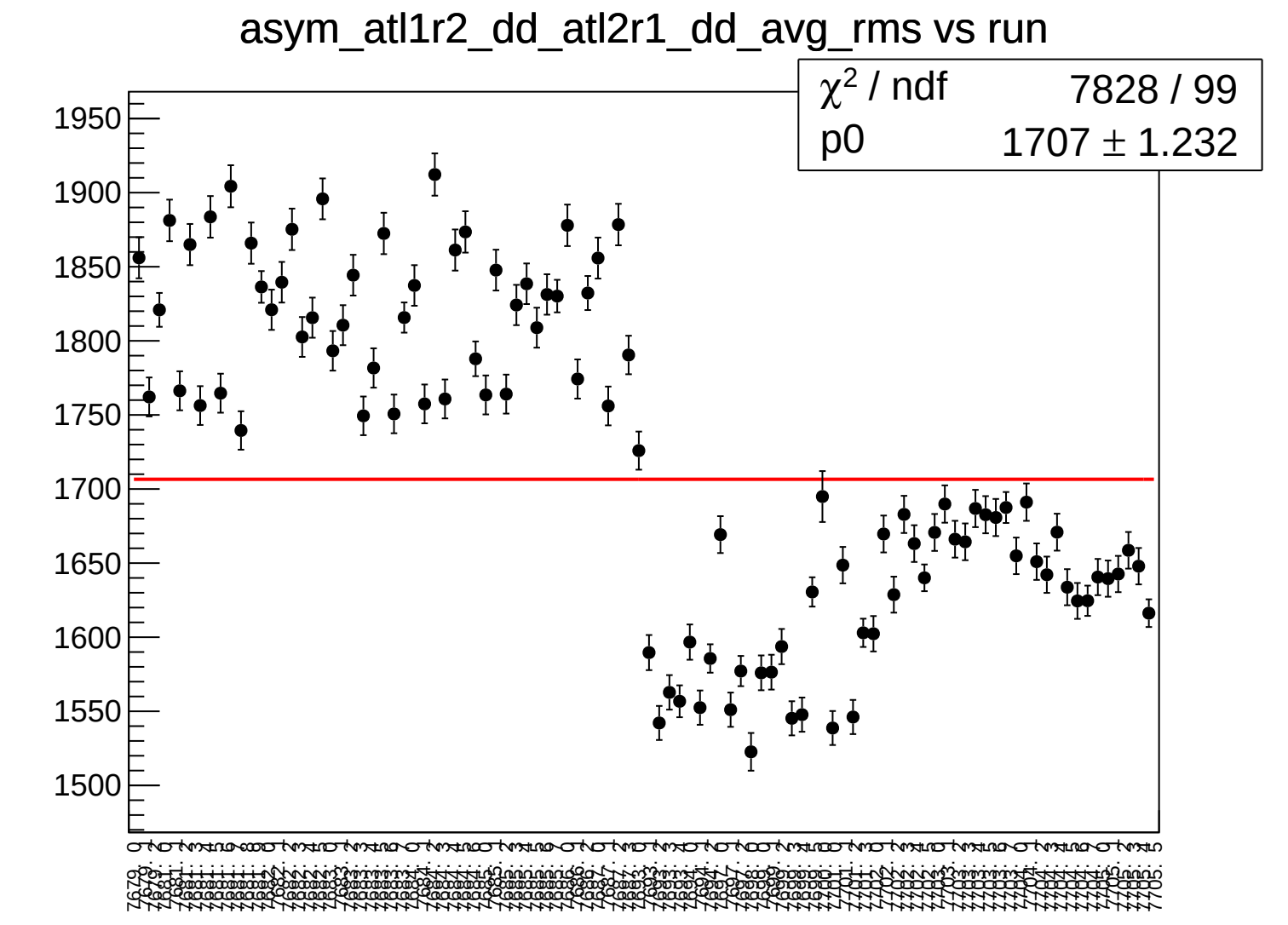

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 95.16 / 99
p0 −799.3 ± 1065
40000
20000
0
−20000
−40000
pull
Entries 100
Mean 2575
Std Dev 0
2
1
0
−1
−2

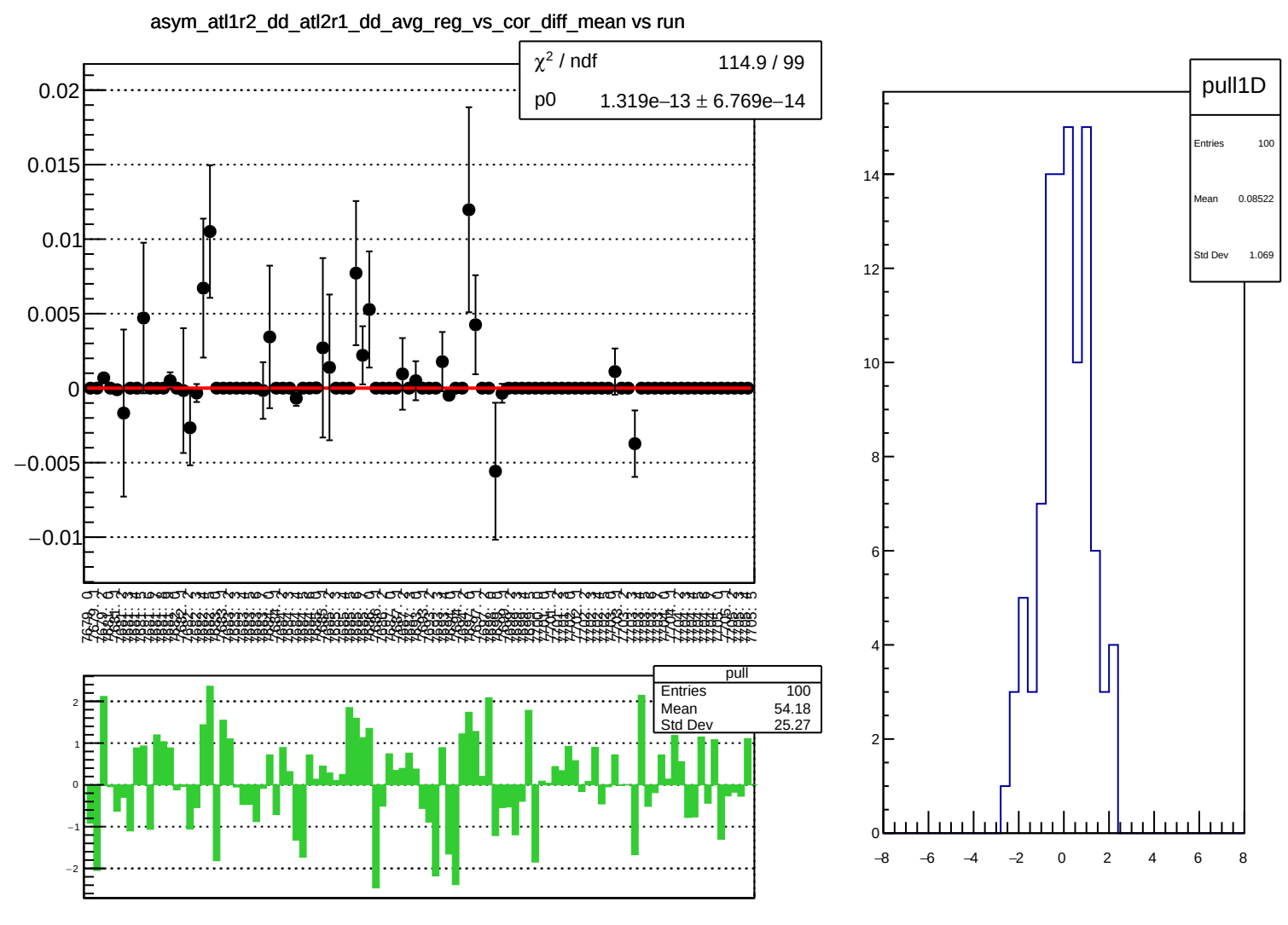

pull1D
Entries 100
Mean −0.00204
Std Dev 0.9755
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

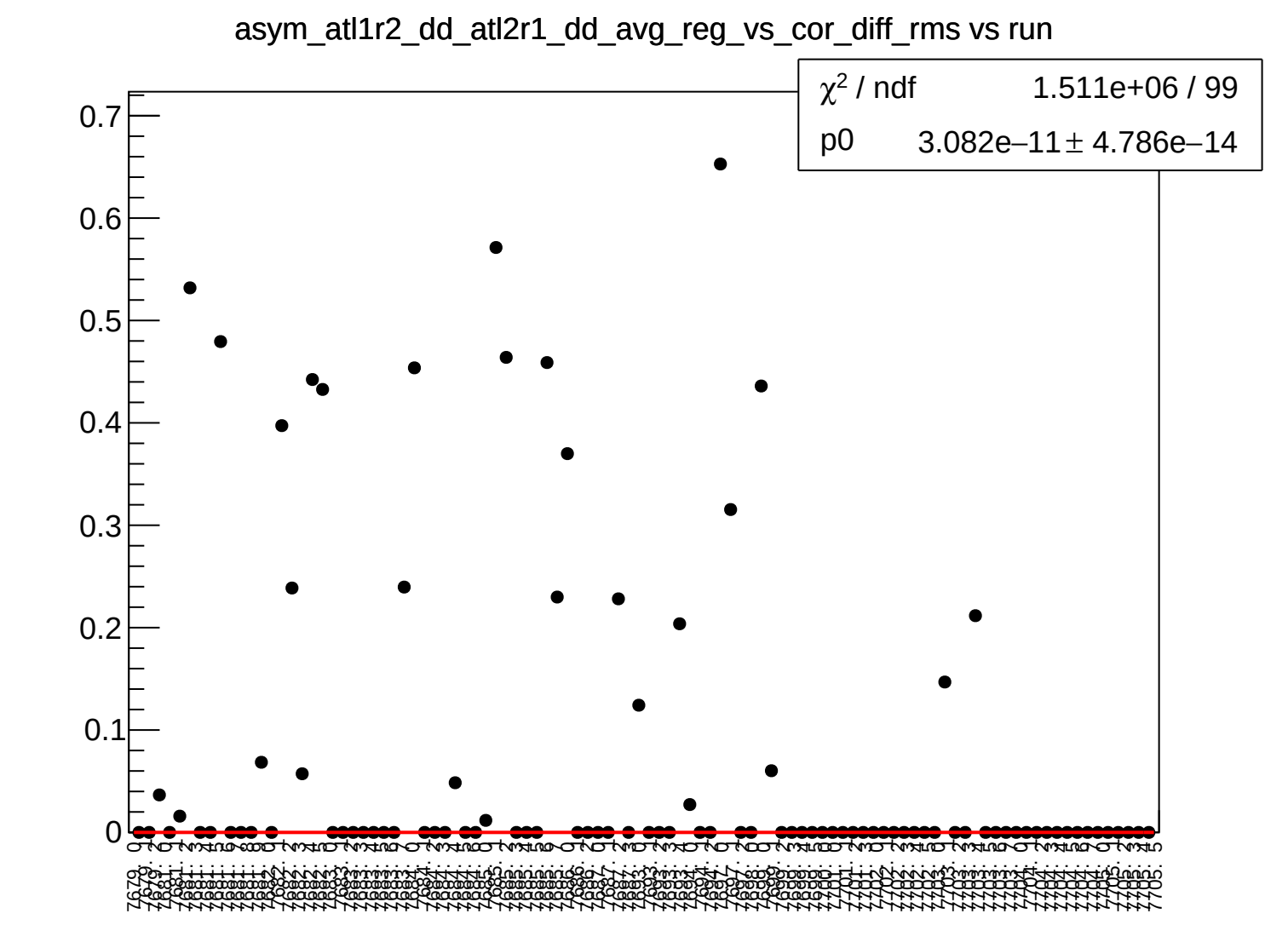

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.437e+04 / 99
p0 1041 ± 0.7533
1200
1150
1100
1050
1000
950
900
850
800

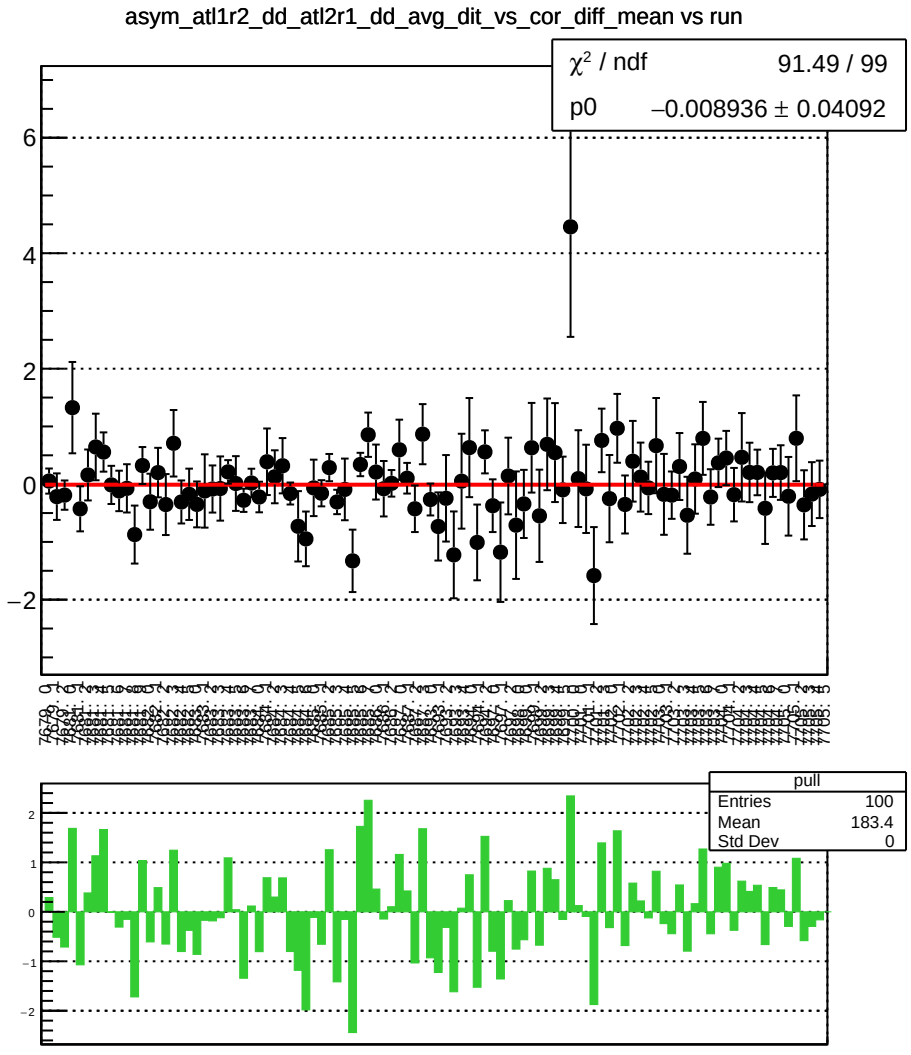

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 76.87 / 99
p0 478.4 ± 1743
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean 1.604e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

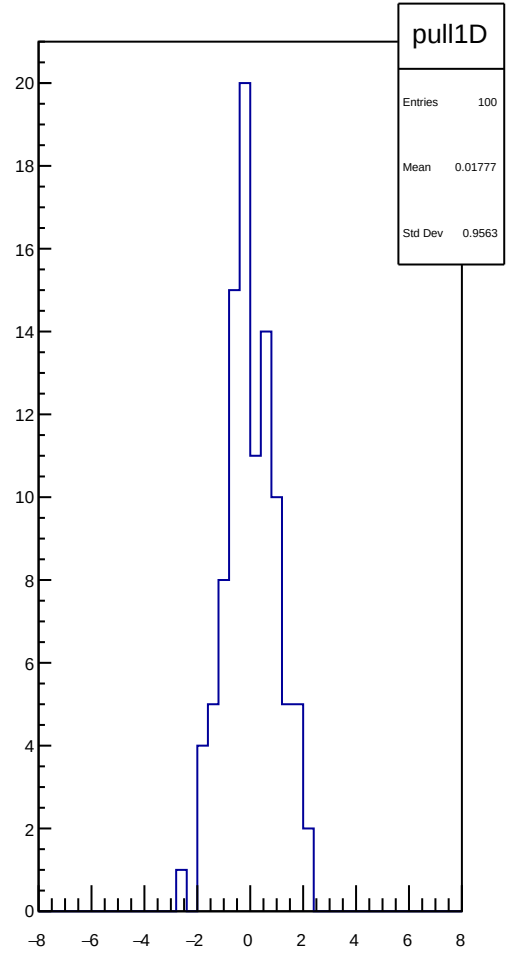

pull1D
Entries 100
Mean 0.0002125
Std Dev 0.8768
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

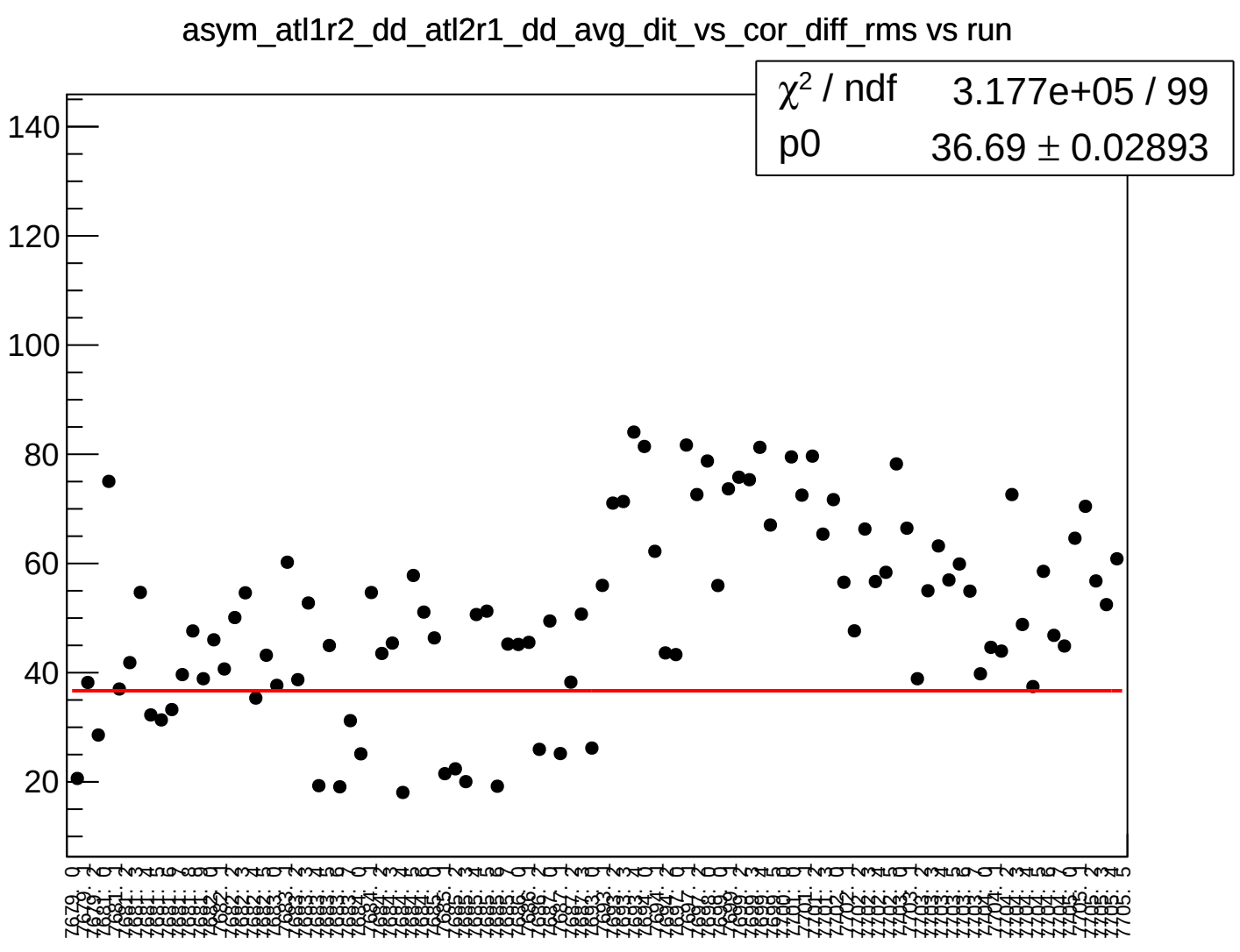

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 7828 / 99
p0 1707 ± 1.232
1950
1900
1850
1800
1750
1700
1650
1600
1550
1500

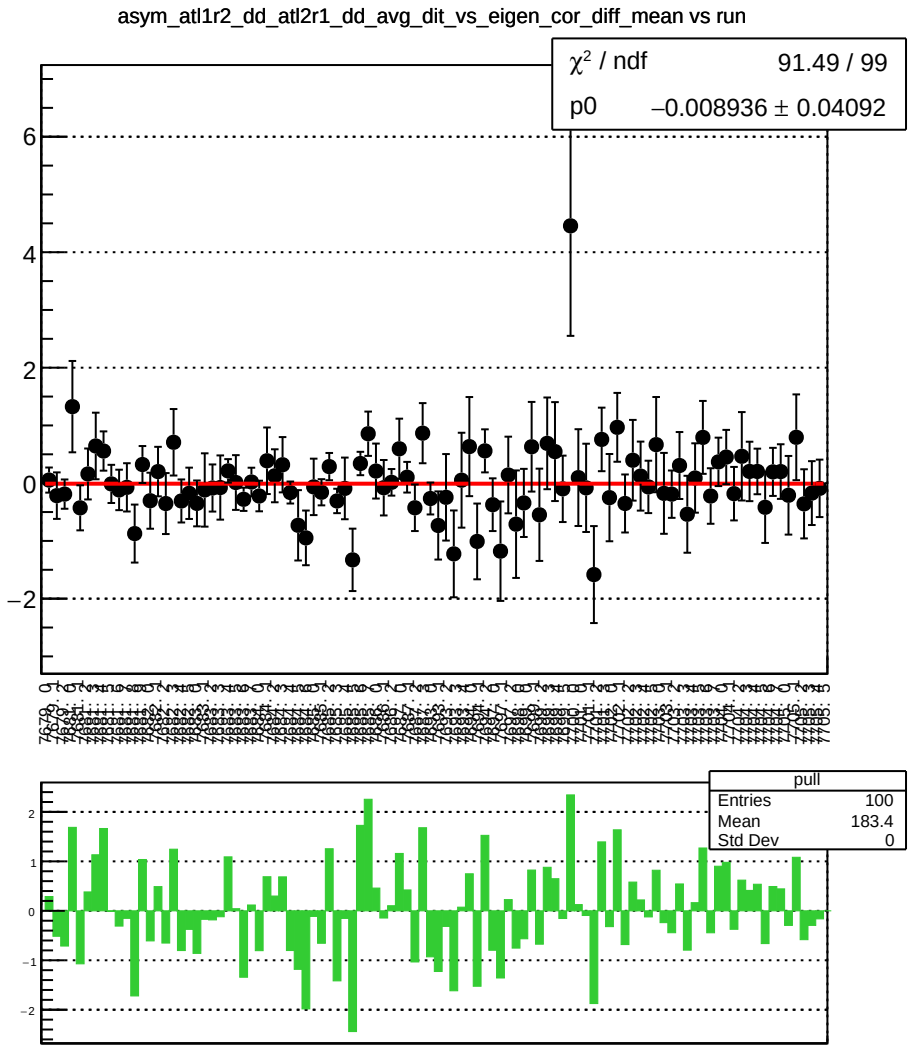

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 114.9 / 99
p0 1.319e−13 ± 6.769e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 100
Mean 54.18
Std Dev 25.27
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.08522
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

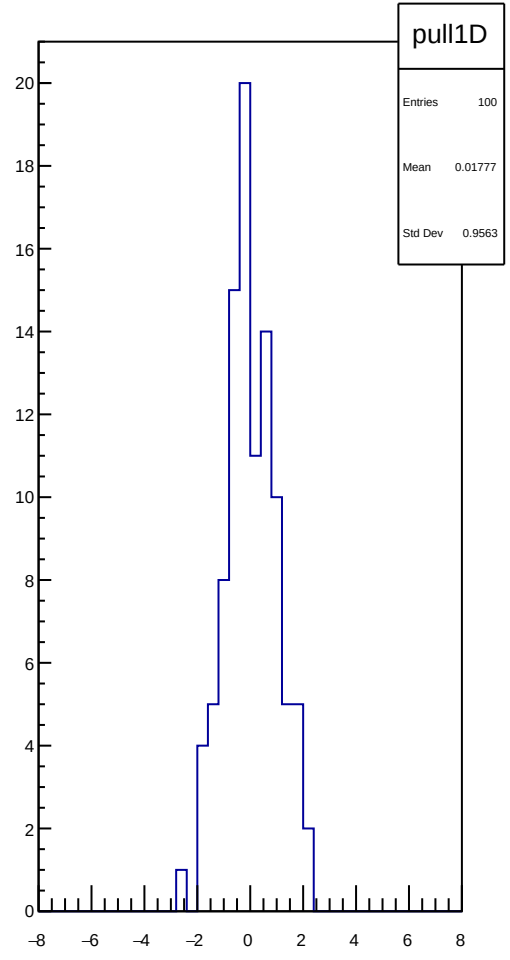

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.511e+06 / 99
p0 3.082e−11 ± 4.786e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

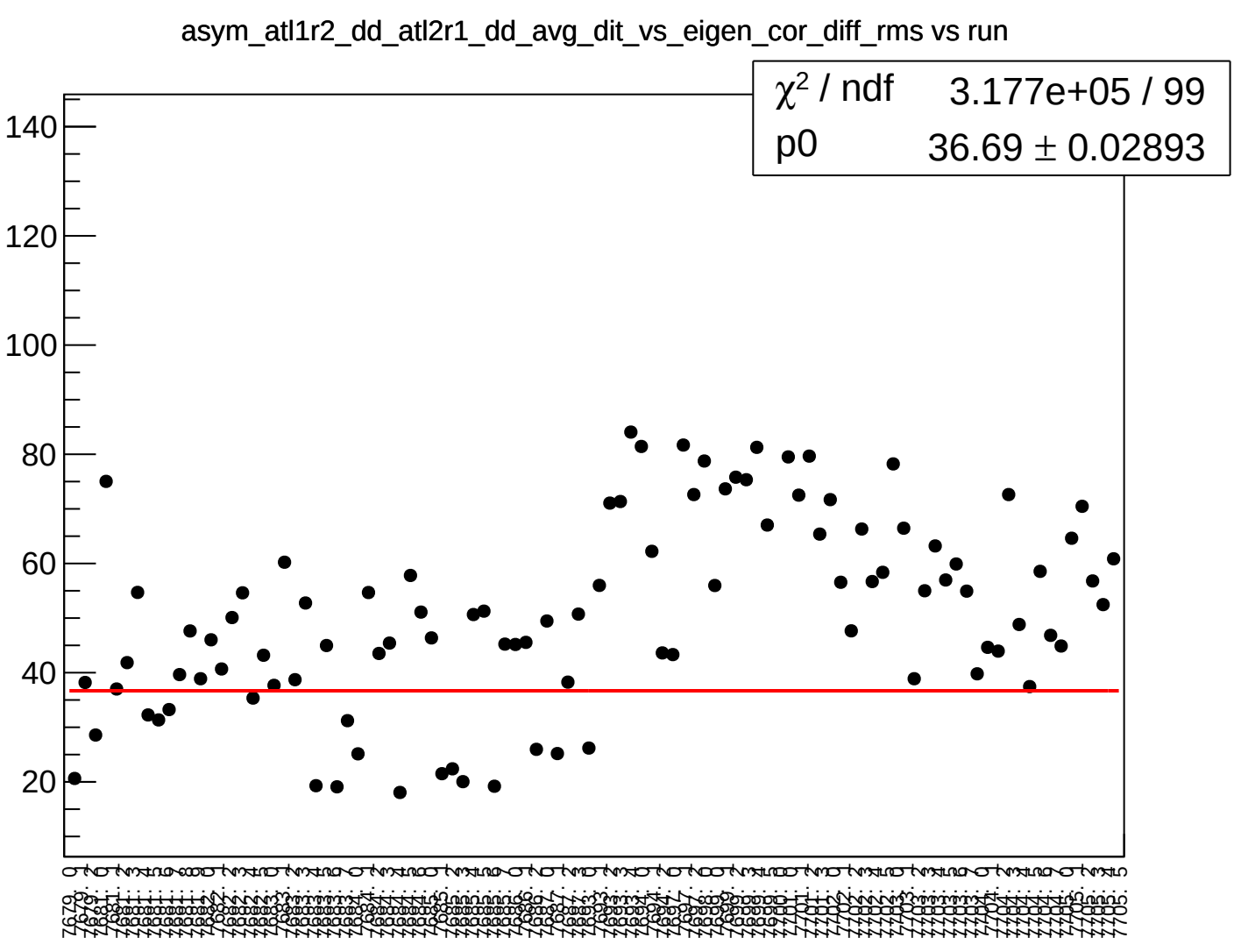

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.49 / 99
p0 −0.008936 ± 0.04092
pull
Entries 100
Mean 183.4
Std Dev 0

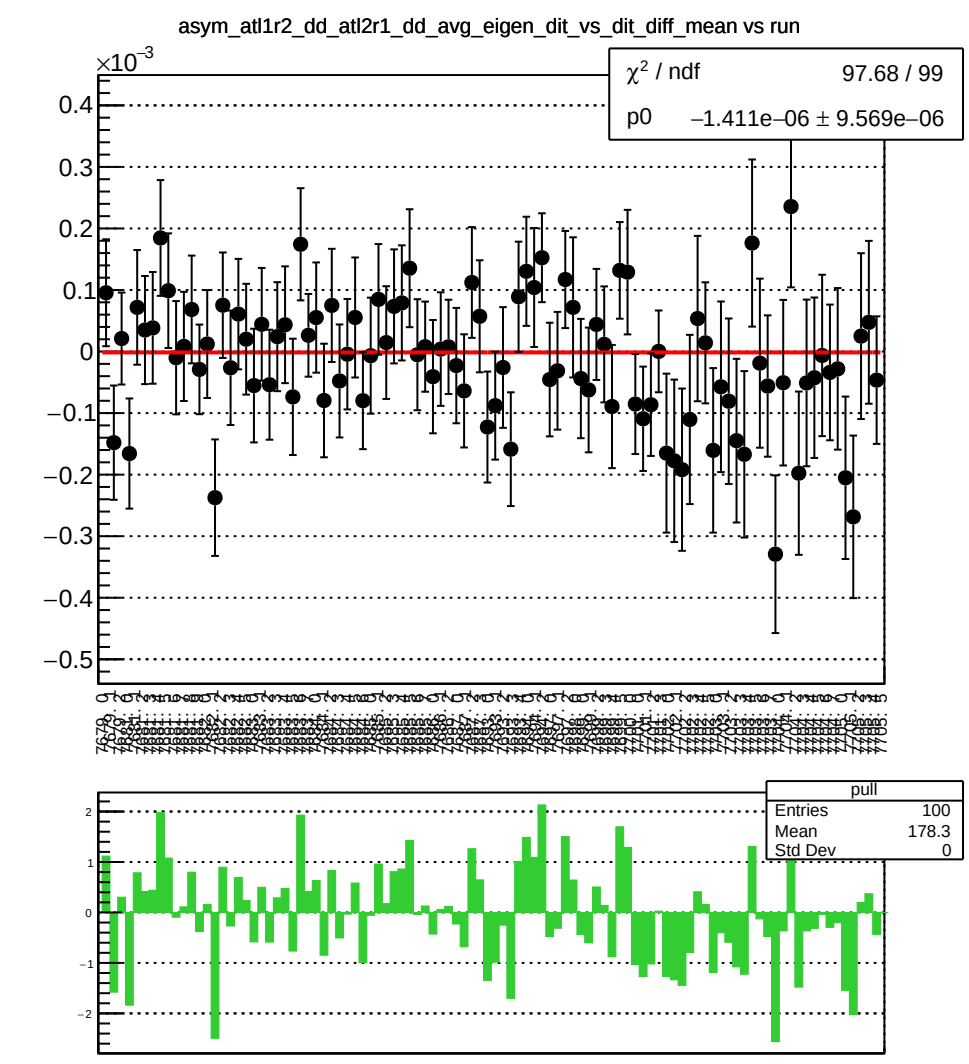

pull1D
Entries 100
Mean 0.01777
Std Dev 0.9563

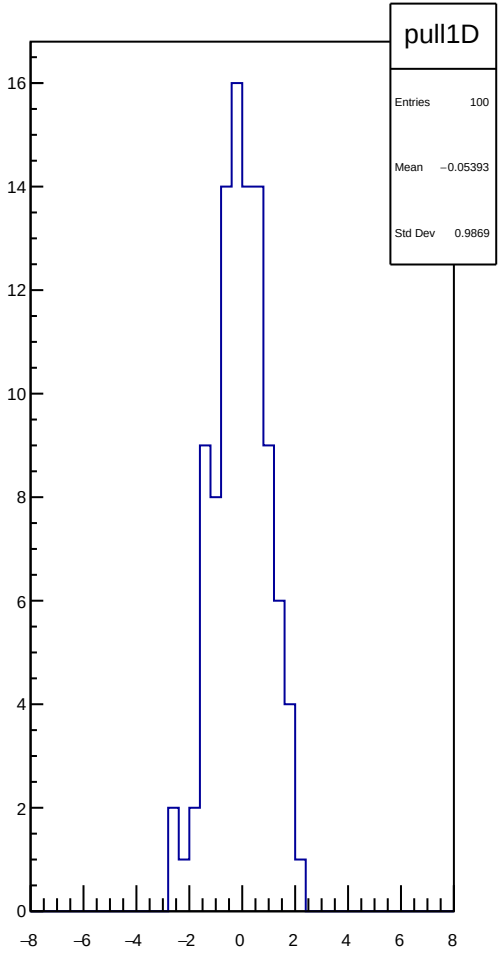

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.177e+05 / 99
p0 36.69 ± 0.02893
140
120
100
80
60
40
20

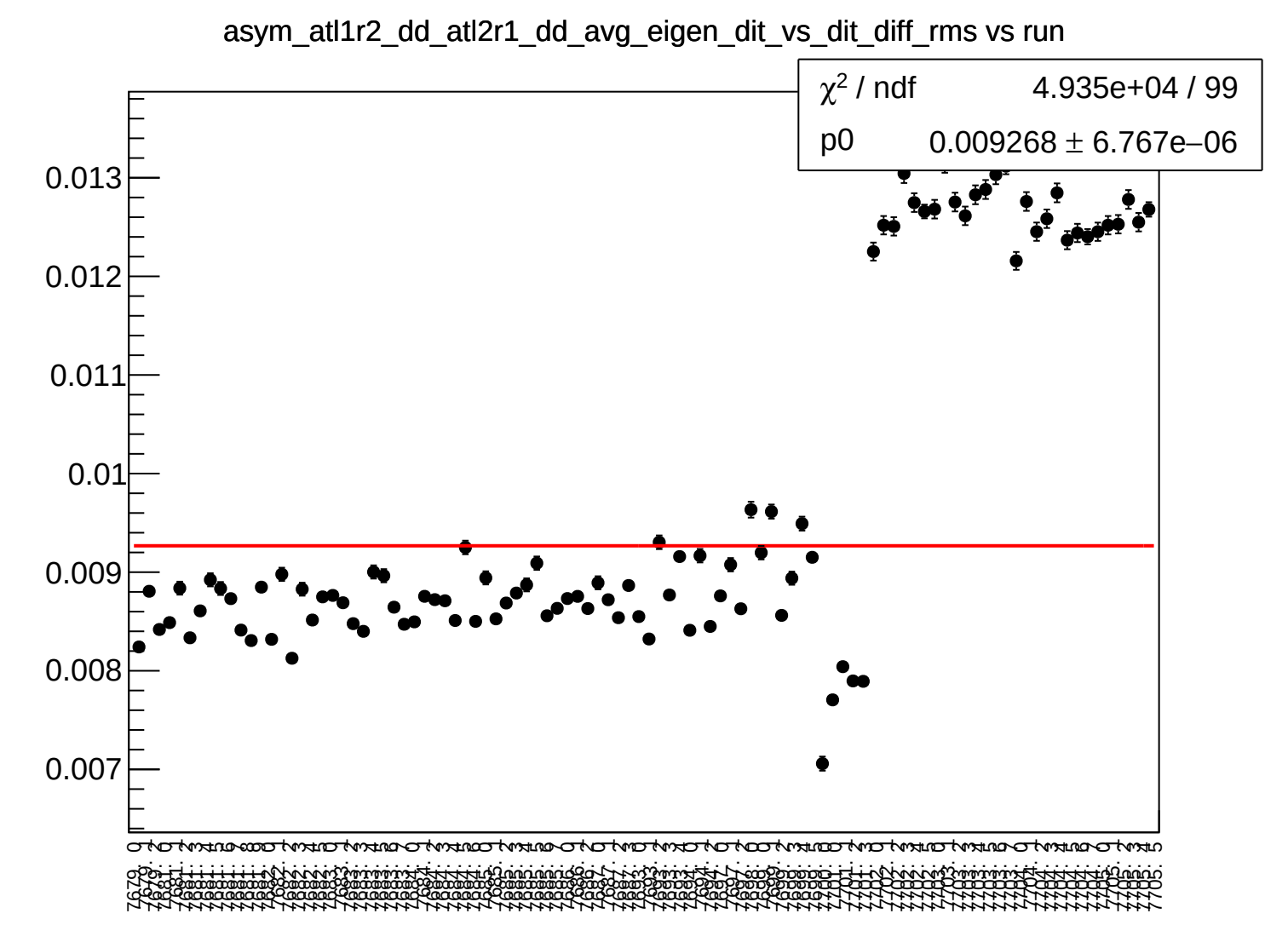

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.49 / 99
p0 −0.008936 ± 0.04092
pull
Entries 100
Mean 183.4
Std Dev 0

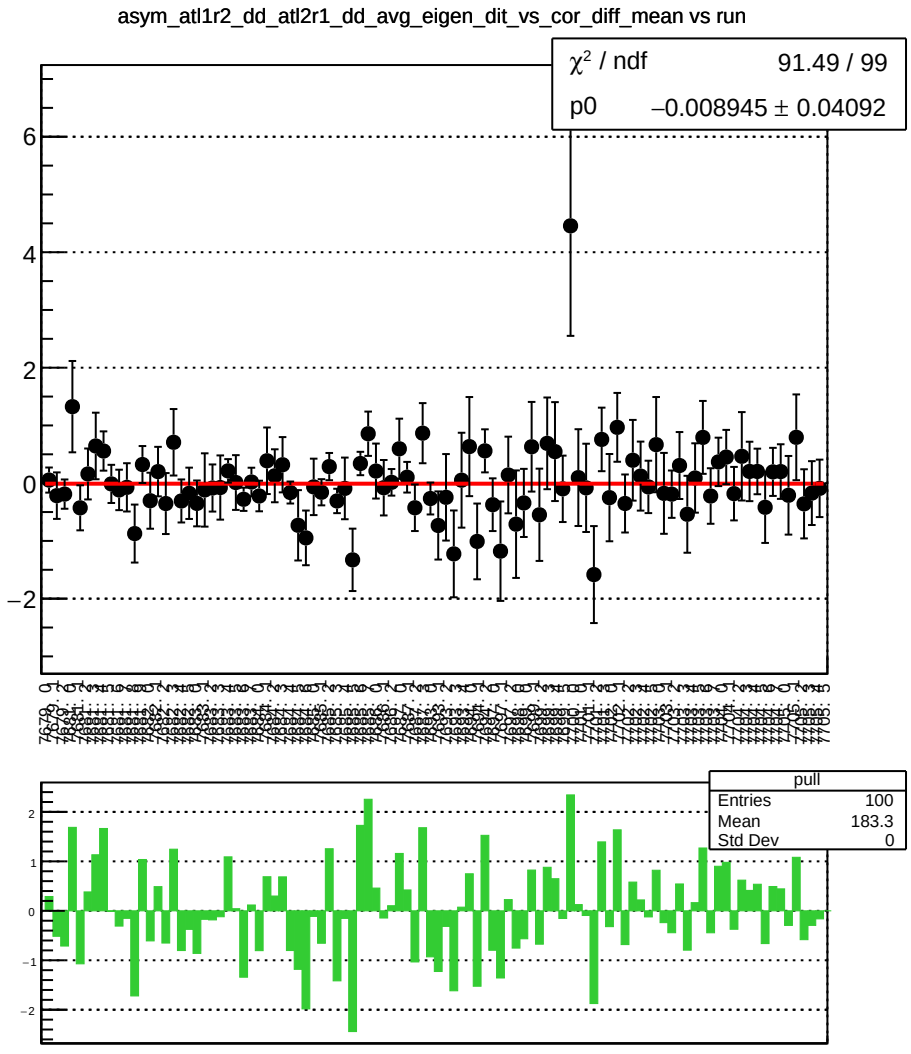

pull1D
Entries 100
Mean 0.01777
Std Dev 0.9563

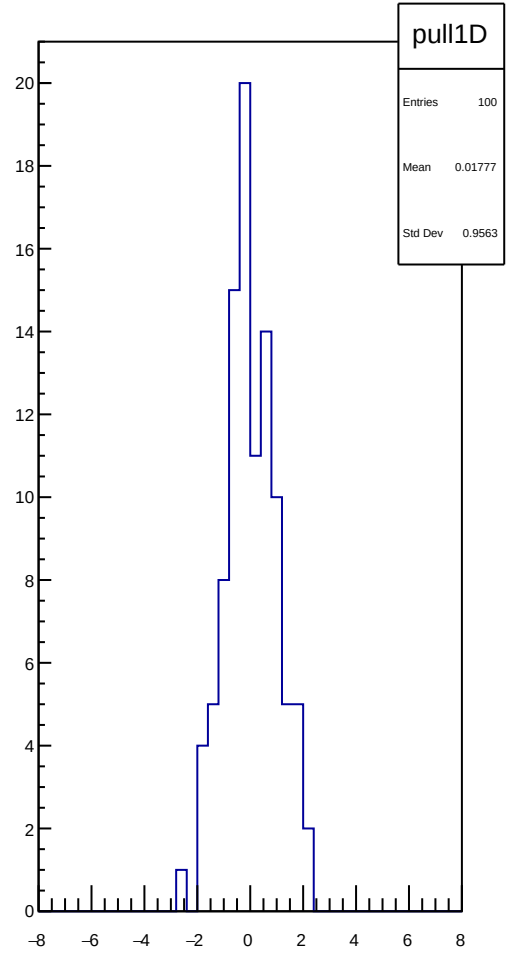

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.177e+05 / 99
p0 36.69 ± 0.02893
140
120
100
80
60
40
20

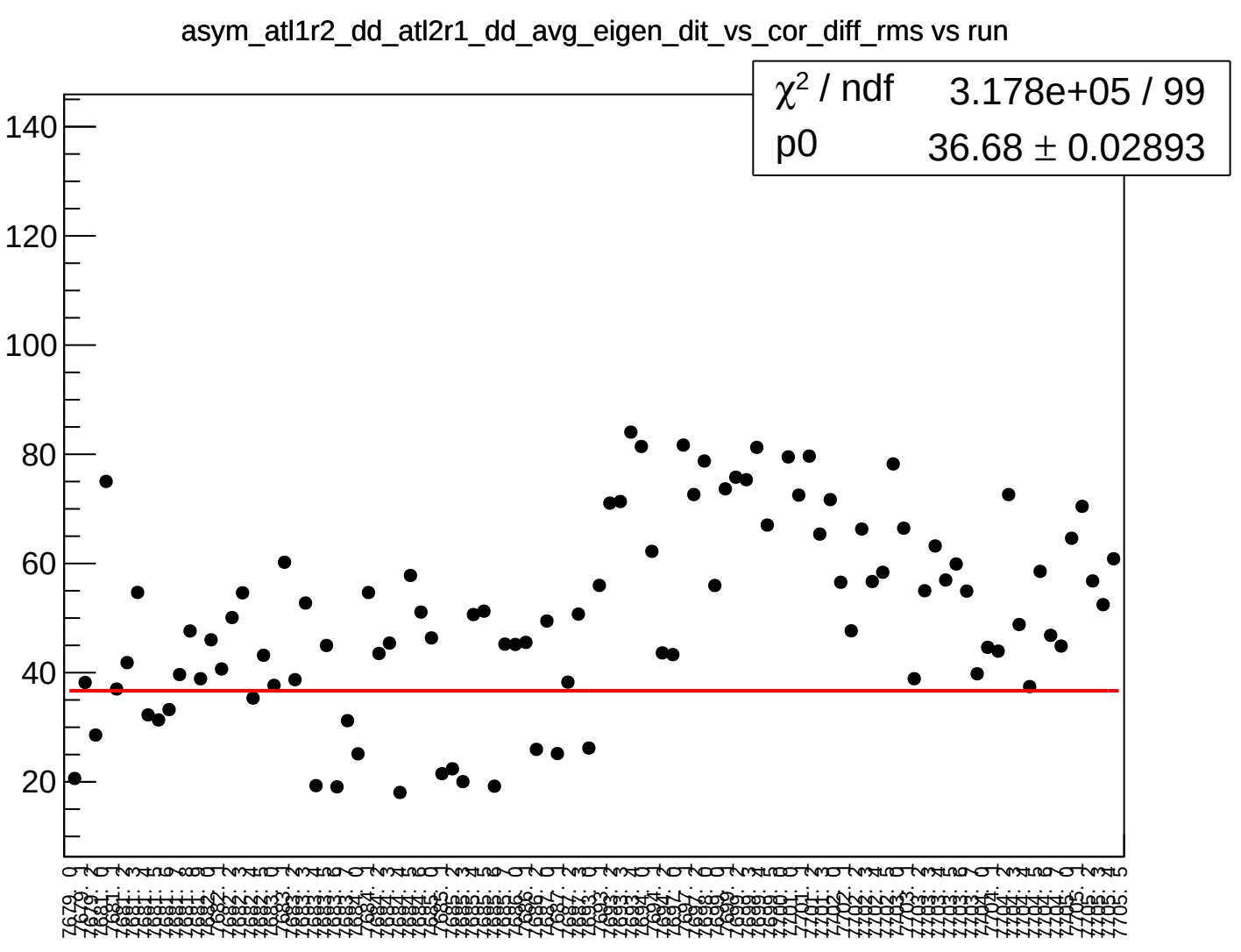

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 97.68 / 99
p0 −1.411e−06 ± 9.569e−06
pull
Entries 100
Mean 178.3
Std Dev 0

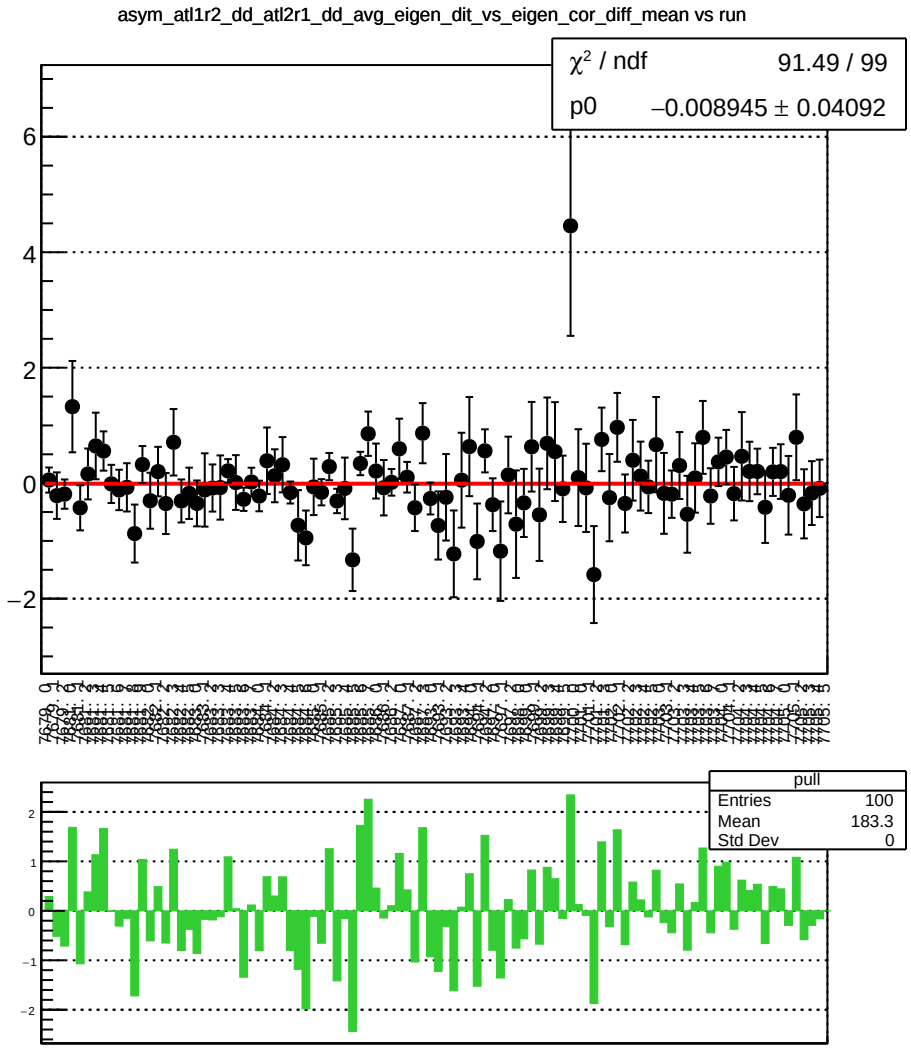

pull1D
Entries 100
Mean −0.05393
Std Dev 0.9869

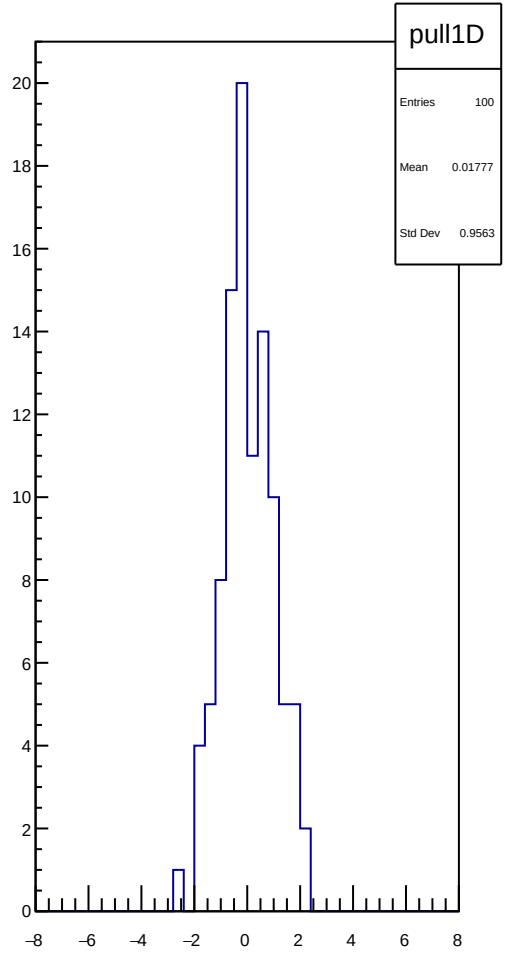

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.935e+04 / 99
p0 0.009268 ± 6.767e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007

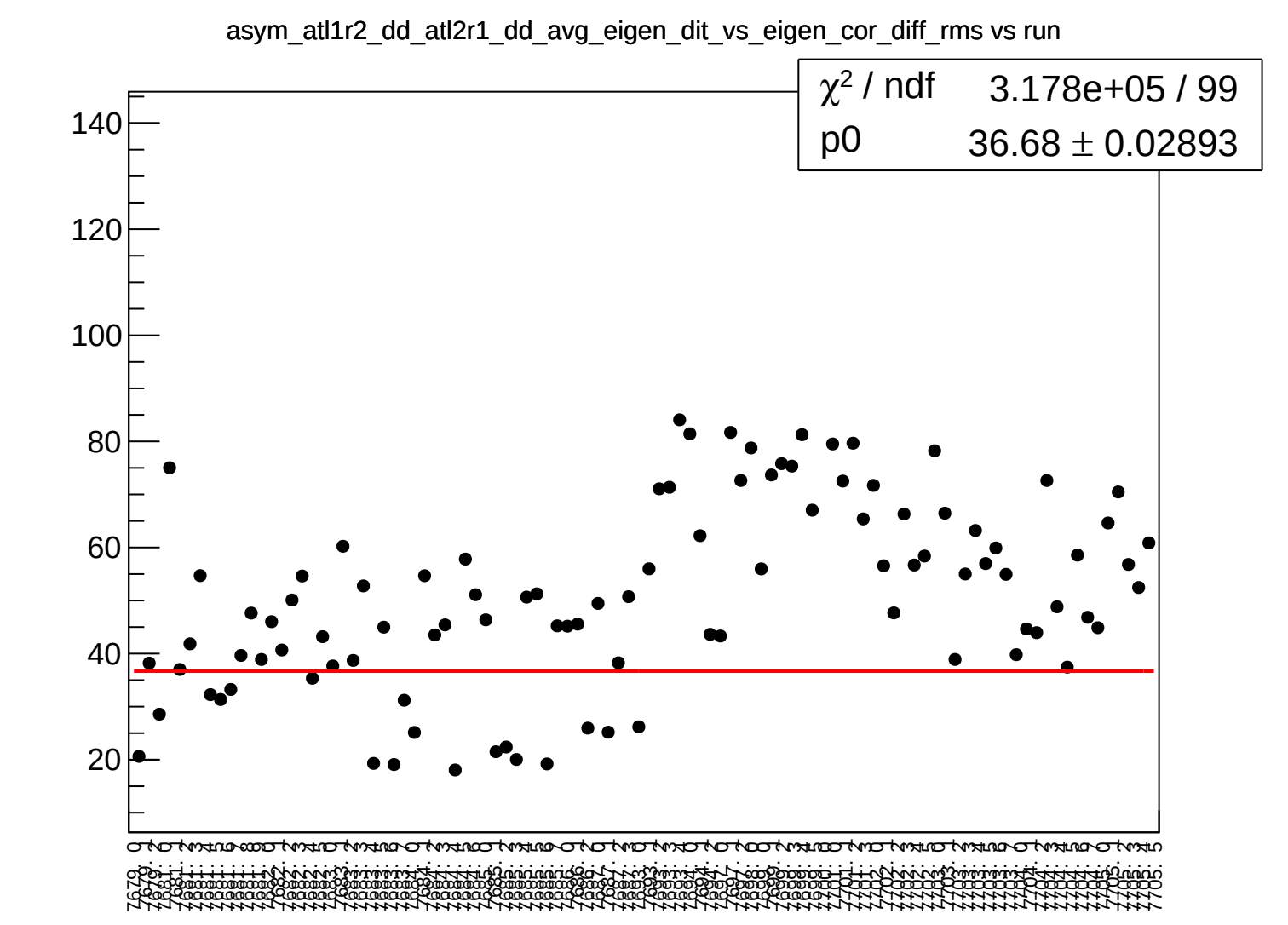

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.49 / 99
p0 −0.008945 ± 0.04092
pull
Entries 100
Mean 183.3
Std Dev 0

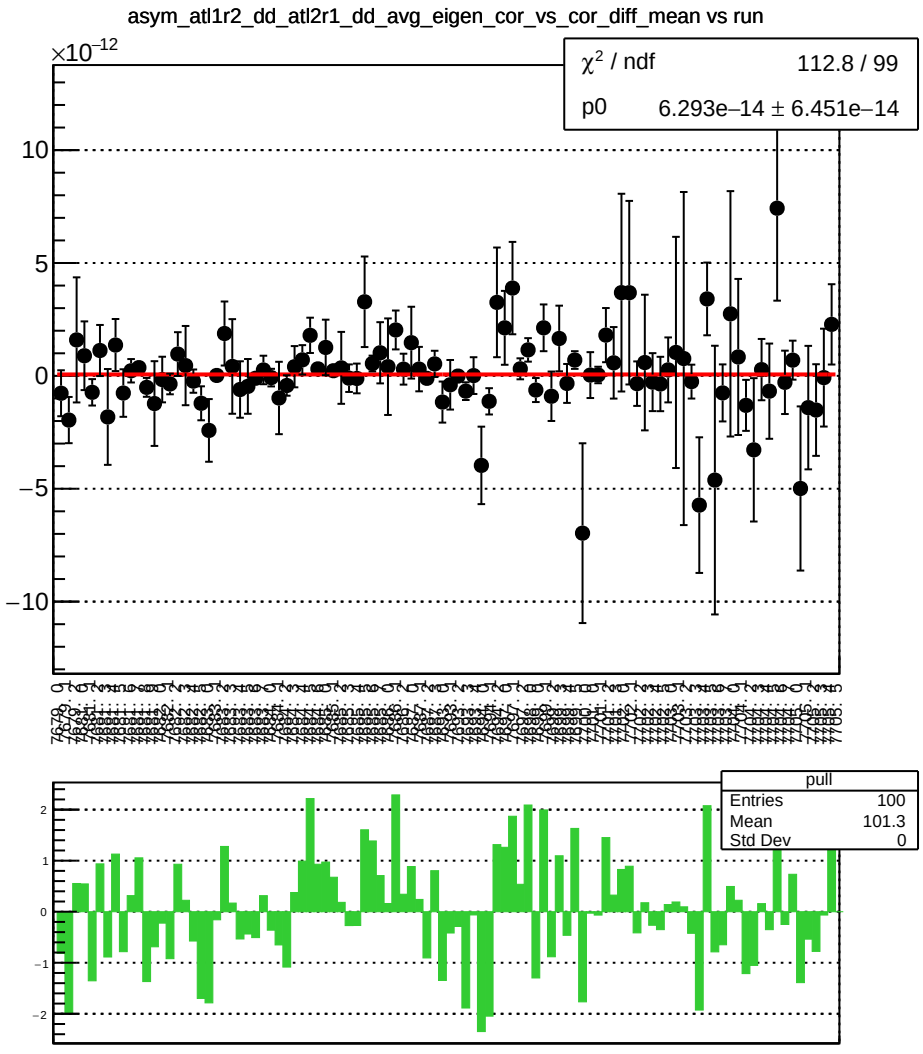

pull1D
Entries 100
Mean 0.01777
Std Dev 0.9563

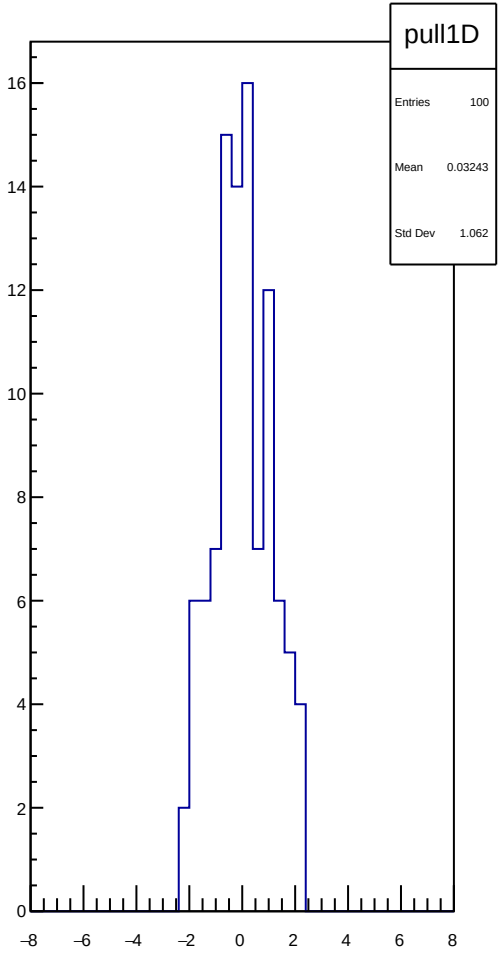

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.178e+05 / 99
p0 36.68 ± 0.02893
140
120
100
80
60
40
20

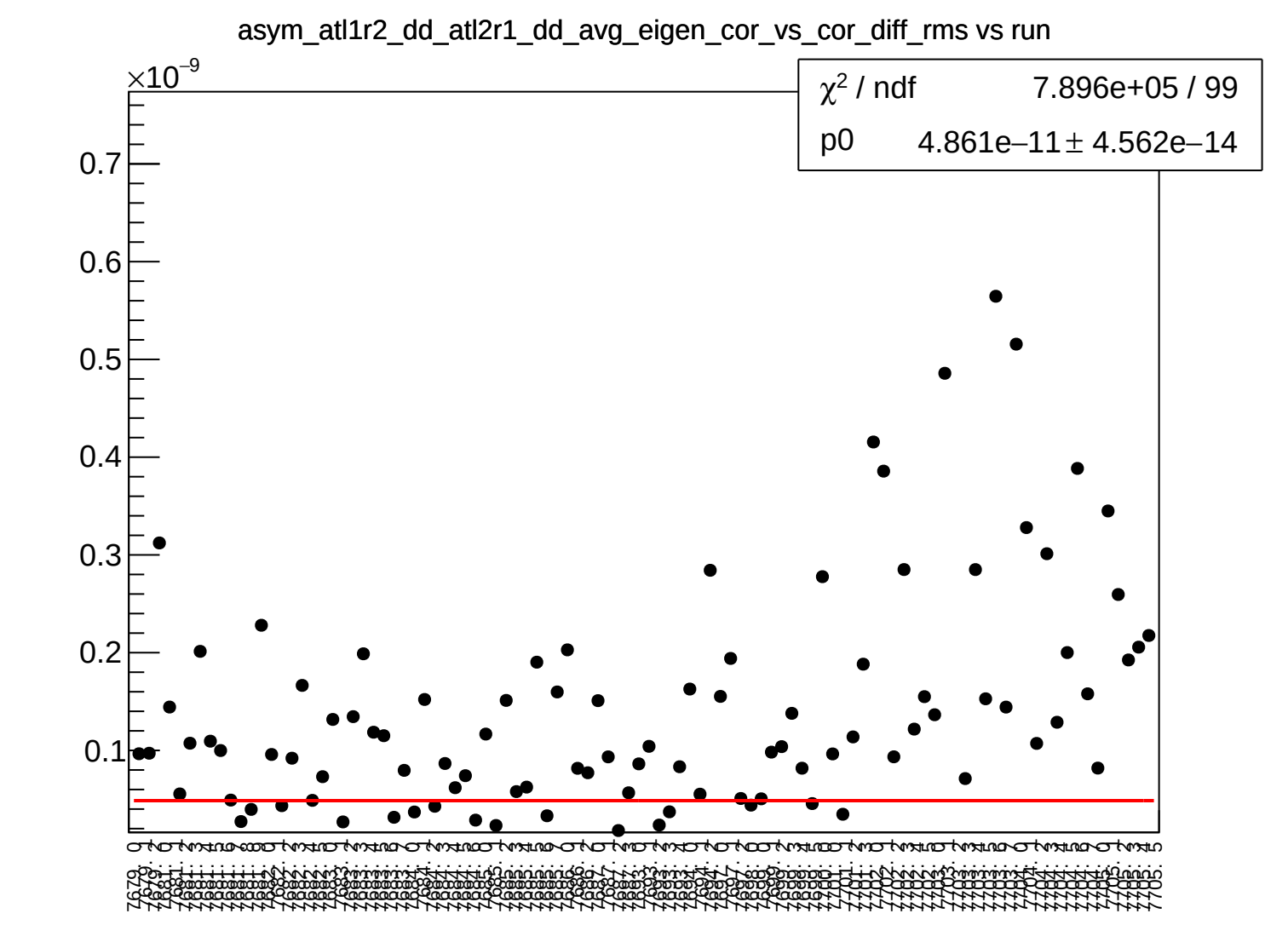

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.49 / 99
p0 −0.008945 ± 0.04092
pull
Entries 100
Mean 183.3
Std Dev 0

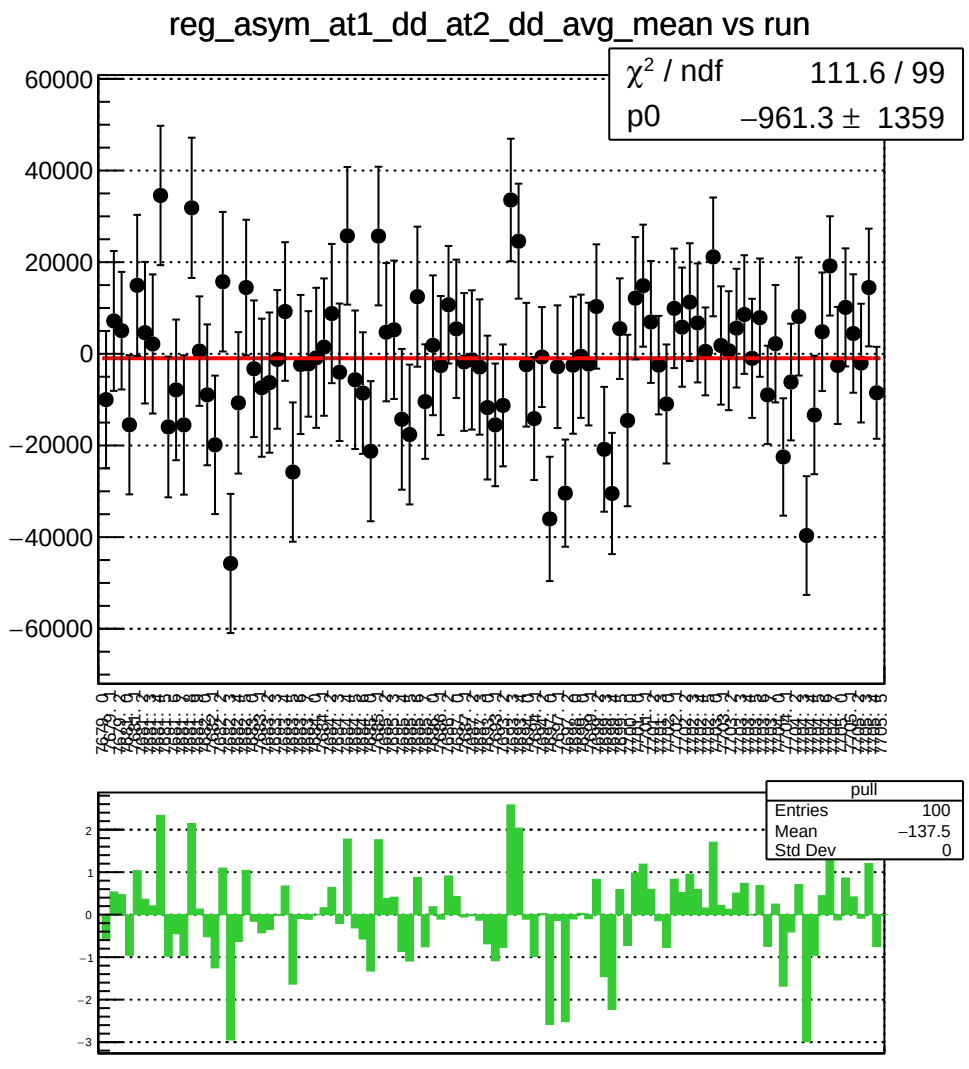

pull1D
Entries 100
Mean 0.01777
Std Dev 0.9563

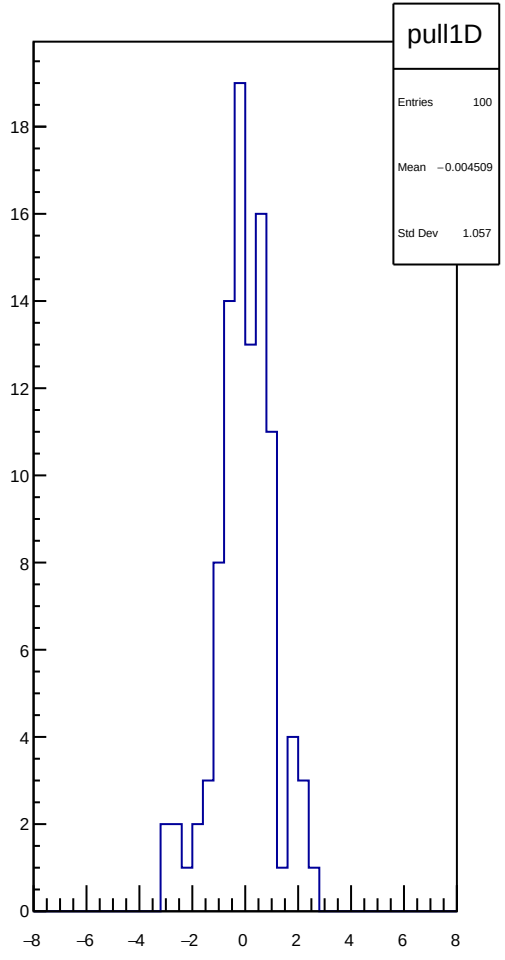

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.178e+05 / 99
p0 36.68 ± 0.02893
140
120
100
80
60
40
20

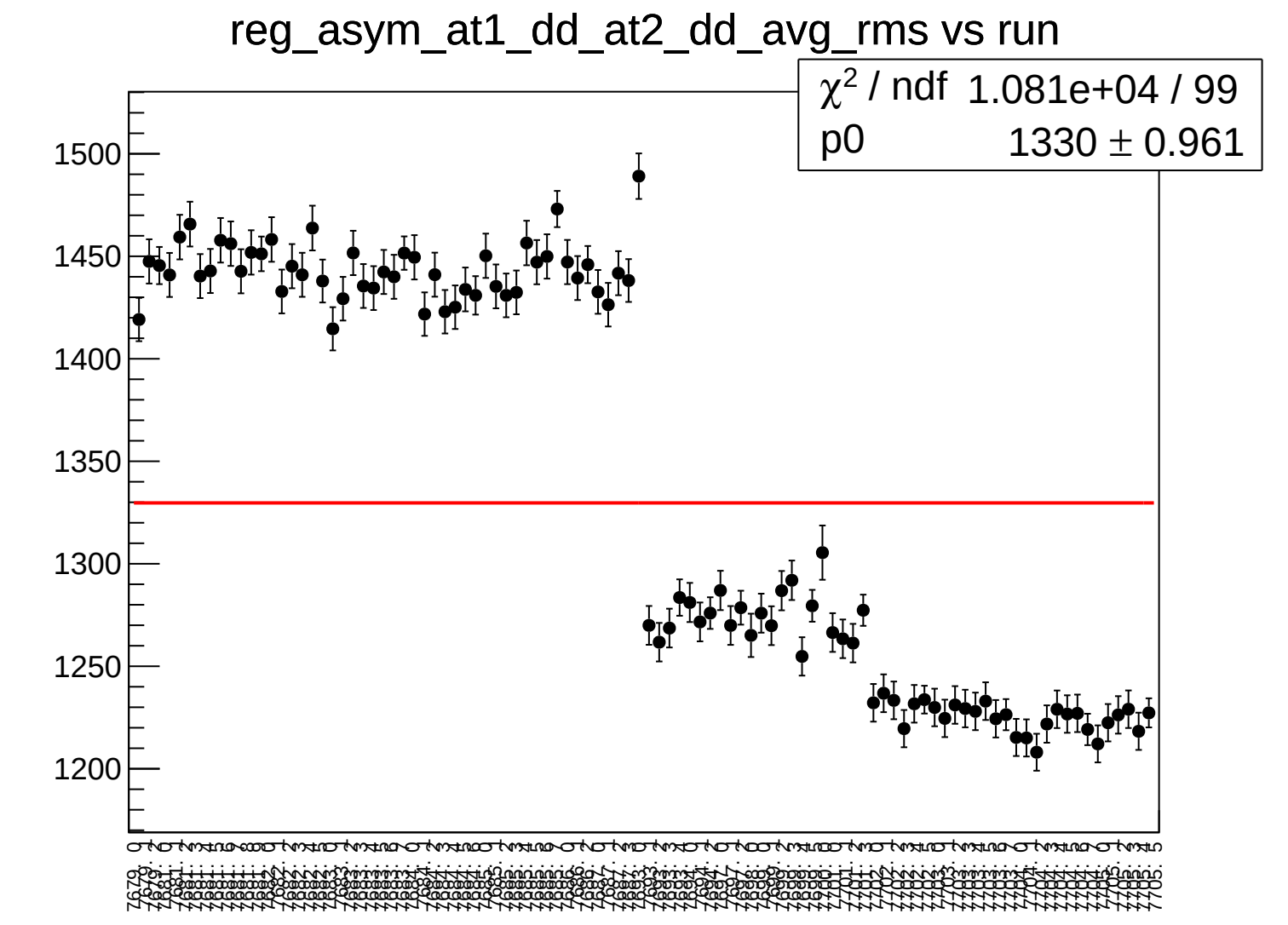

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 112.8 / 99
p0 6.293e−14 ± 6.451e−14
10
5
0
−5
−10
pull
Entries 100
Mean 101.3
Std Dev 0
2
1
0
−1
−2

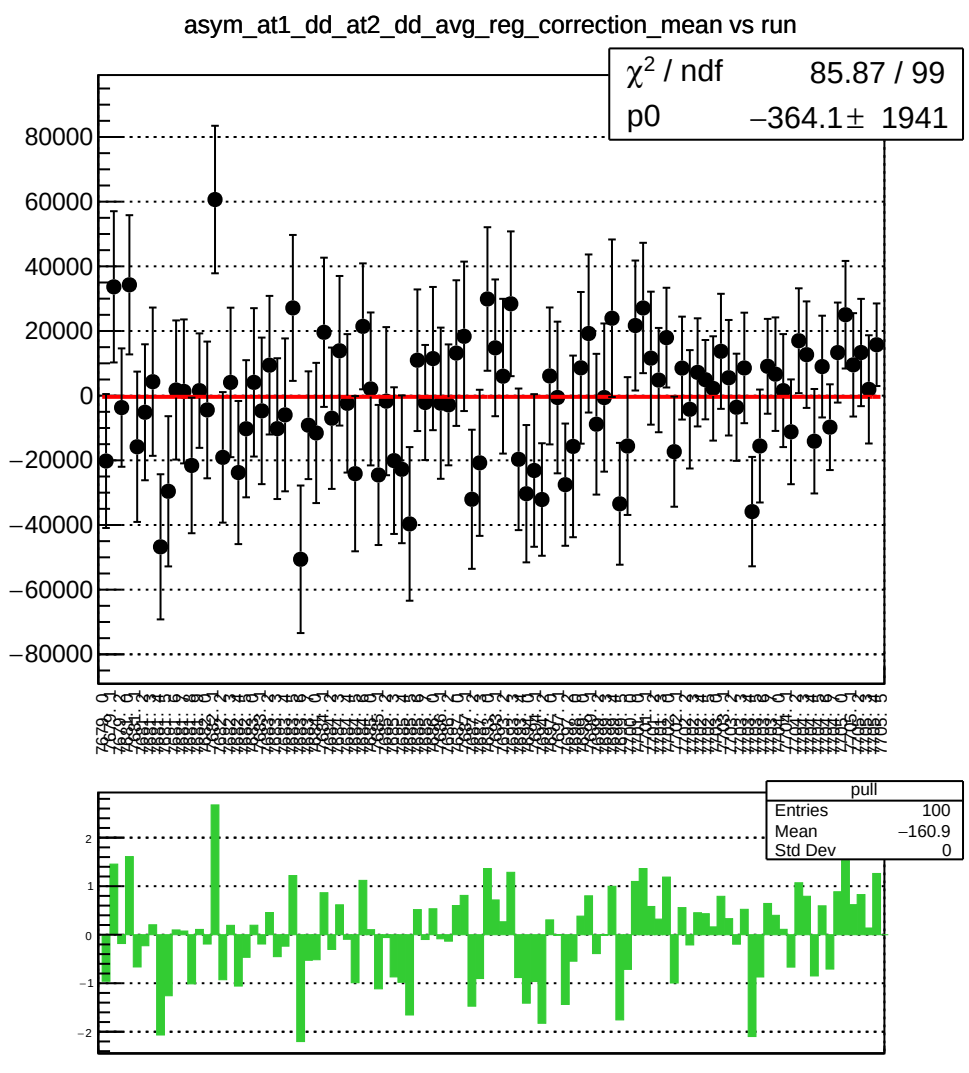

pull1D
Entries 100
Mean 0.03243
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

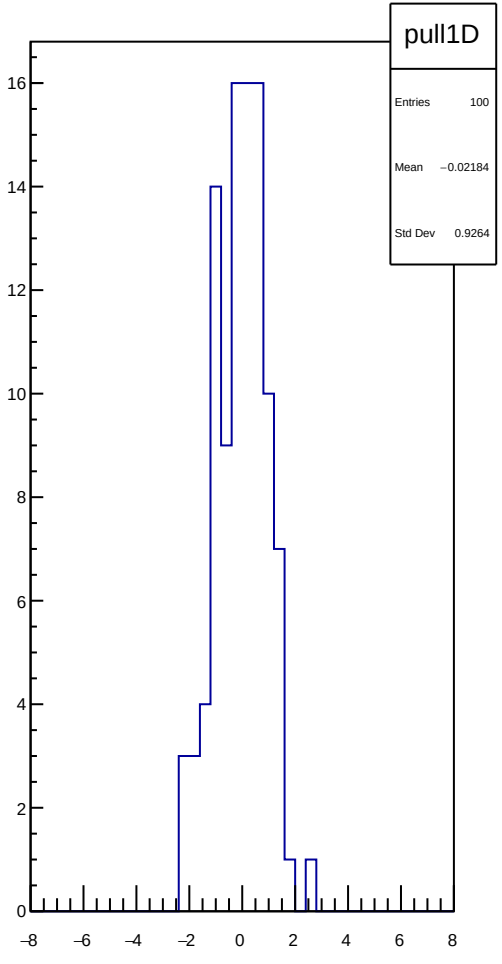

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.896e+05 / 99
p0 4.861e−11 ± 4.562e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

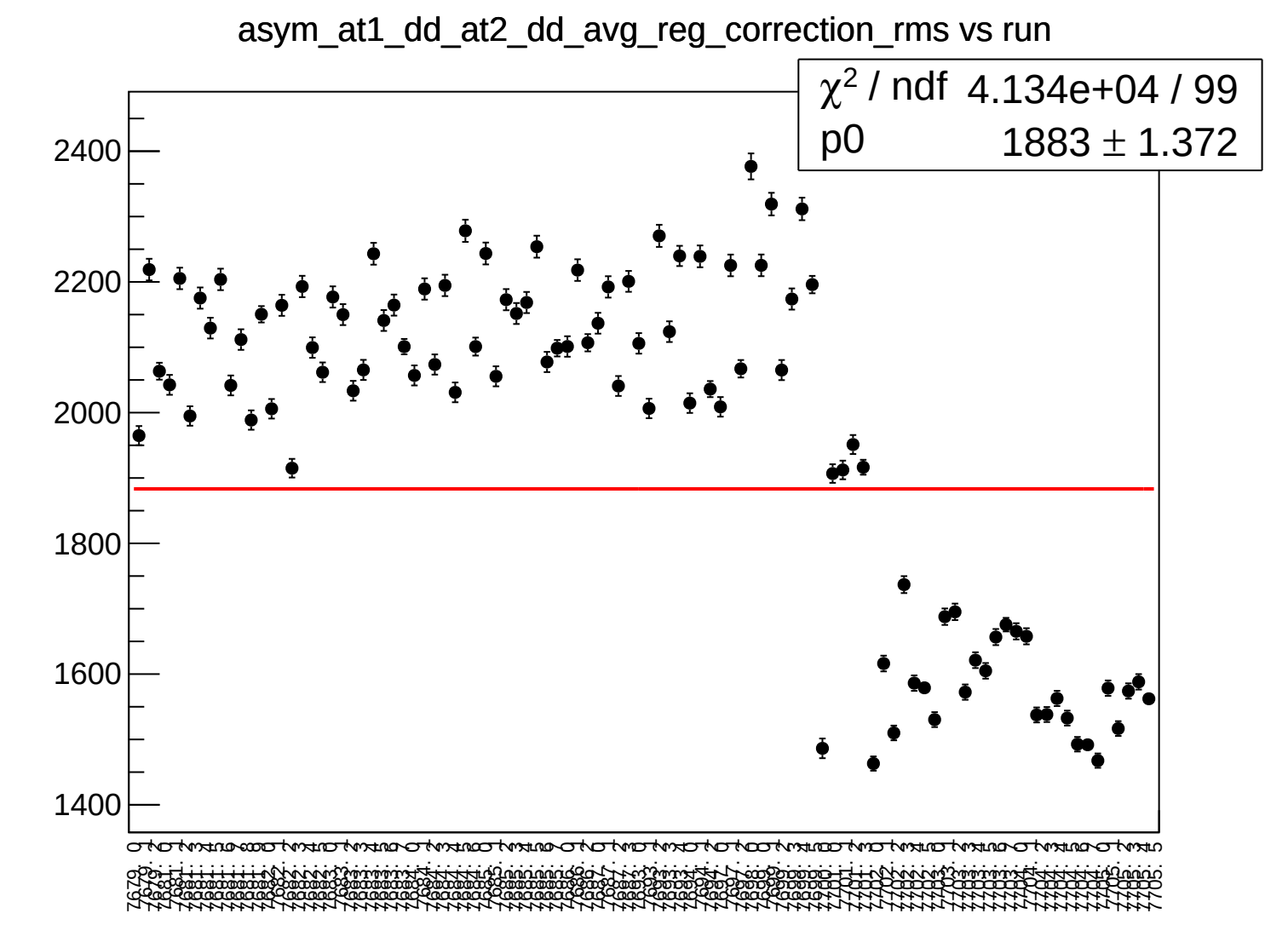

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 111.6 / 99
p0 −961.3 ± 1359
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −137.5
Std Dev 0
2
1
0
−1
−2
−3

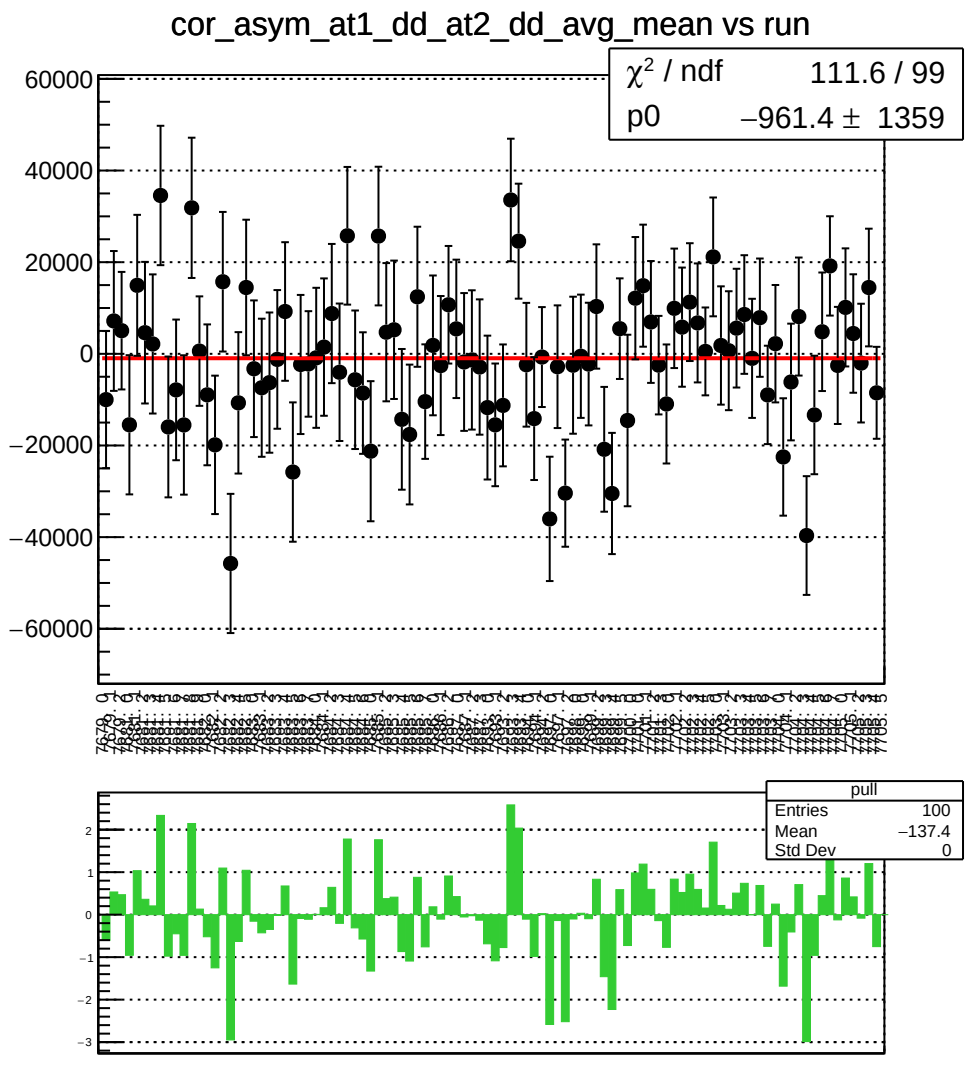

pull1D
Entries 100
Mean −0.004509
Std Dev 1.057
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

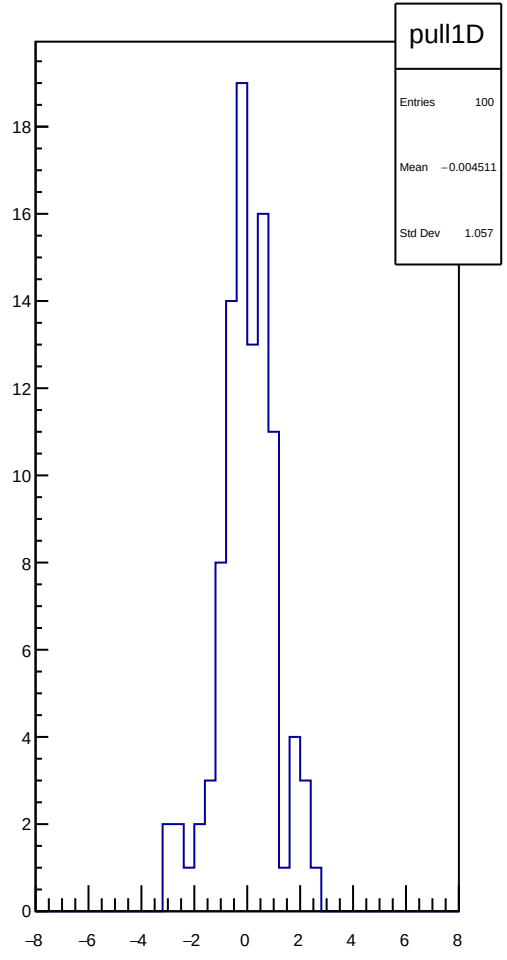

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 1.081e+04 / 99
p0 1330 ± 0.961
1500
1450
1400
1350
1300
1250
1200

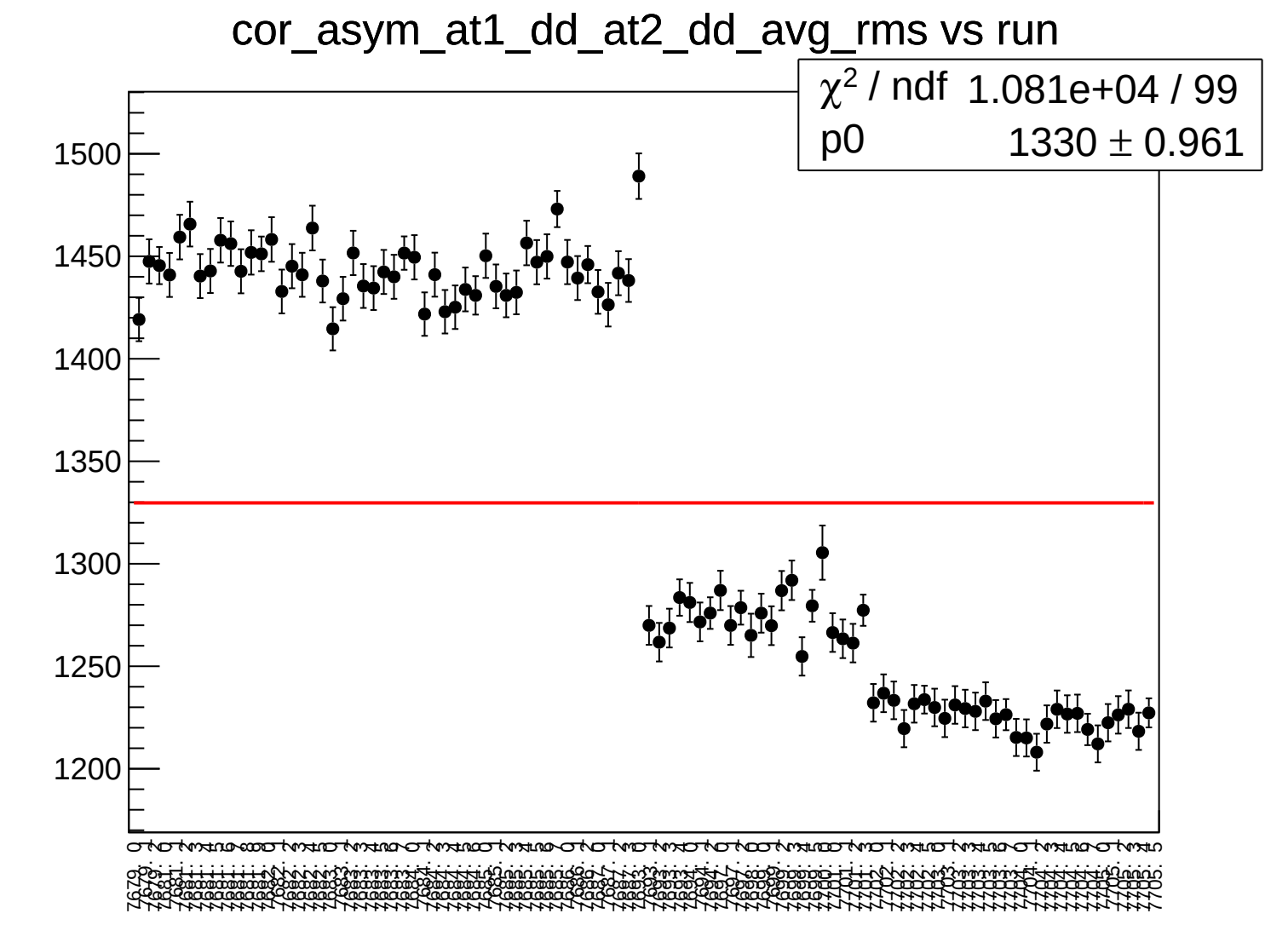

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 85.87 / 99
p0 −364.1± 1941
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −160.9
Std Dev 0
2
1
0
−1
−2

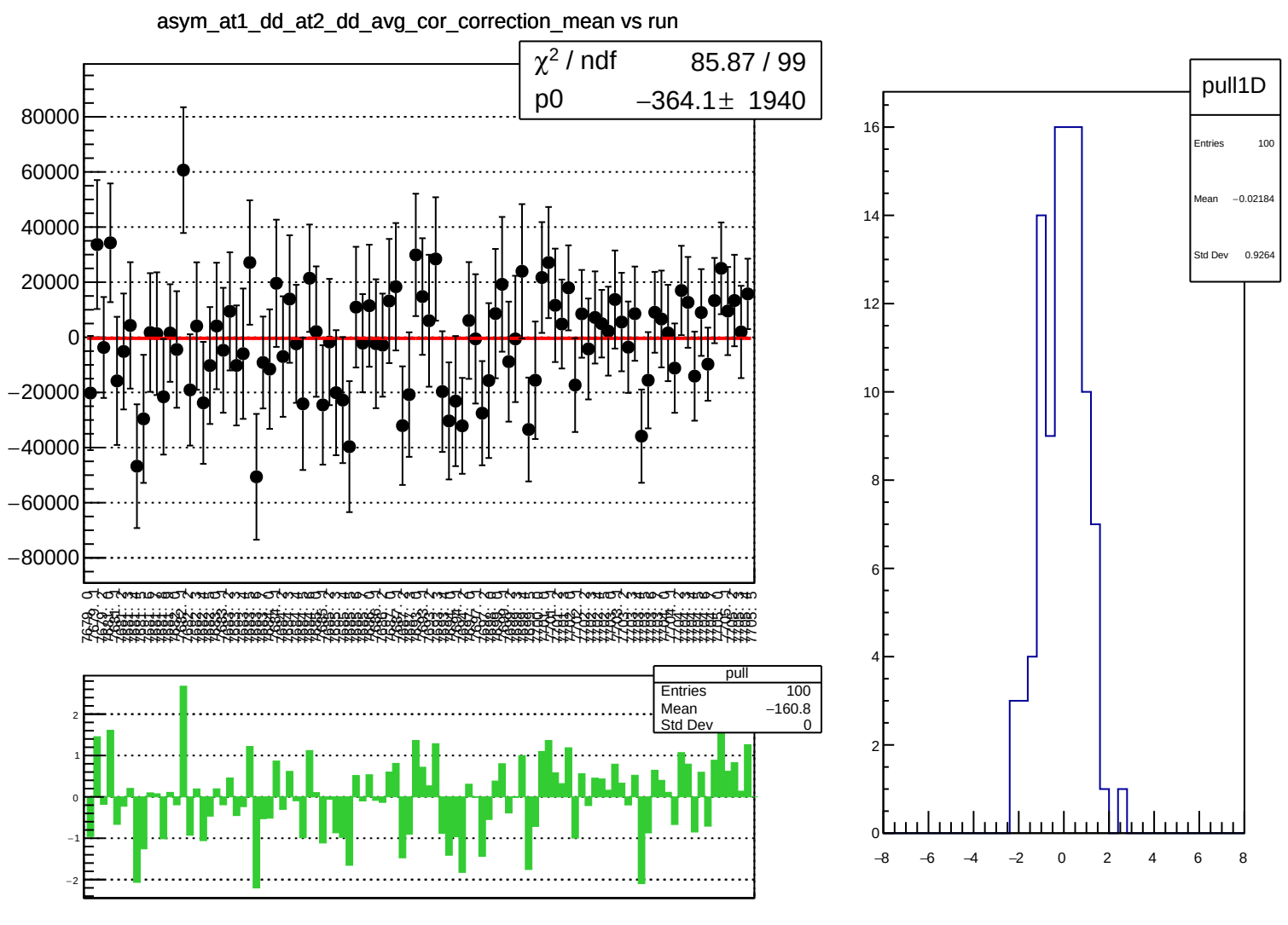

pull1D
Entries 100
Mean −0.02184
Std Dev 0.9264
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

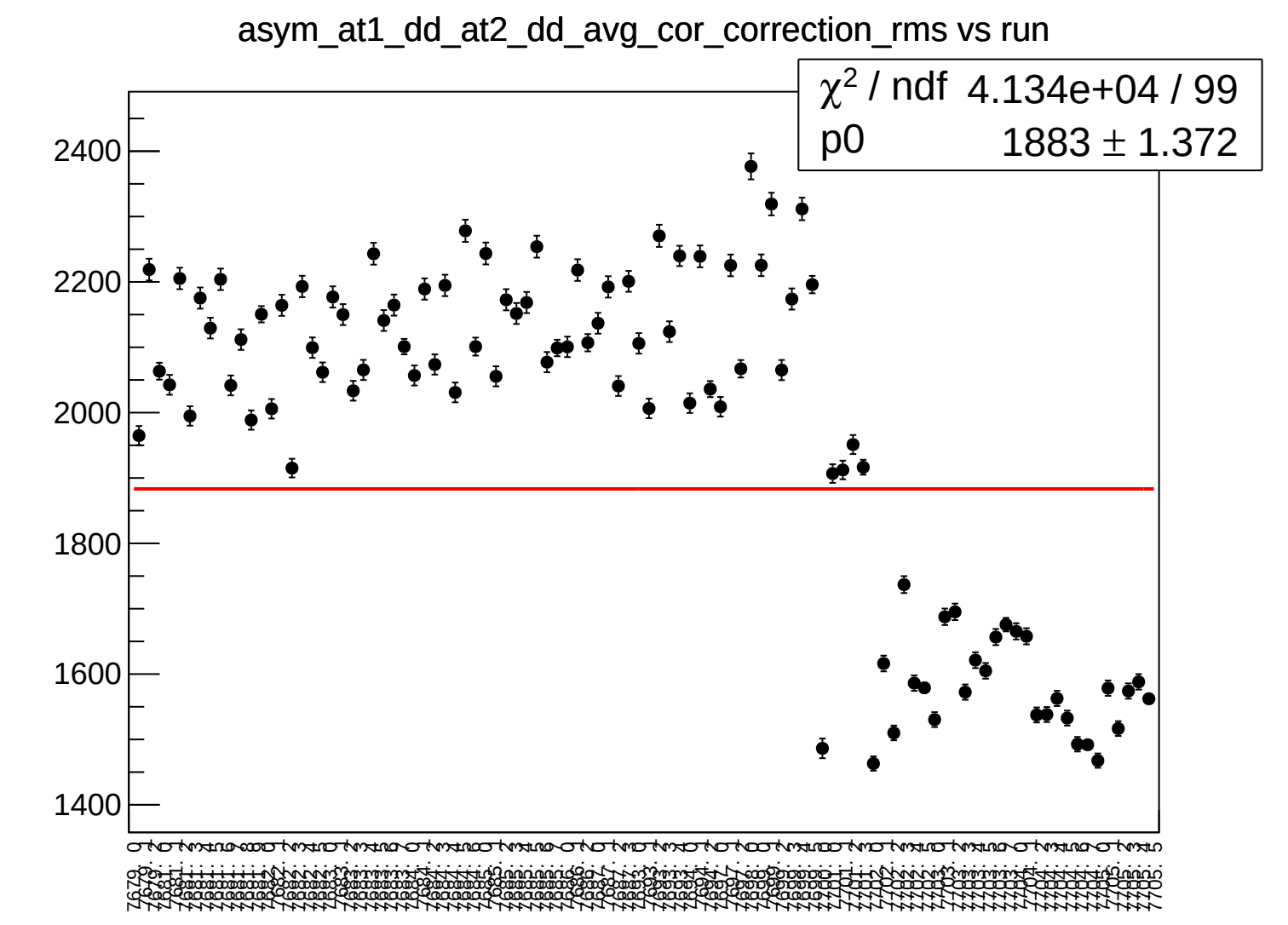

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 4.134e+04 / 99
p0 1883 ± 1.372
2400
2200
2000
1800
1600
1400

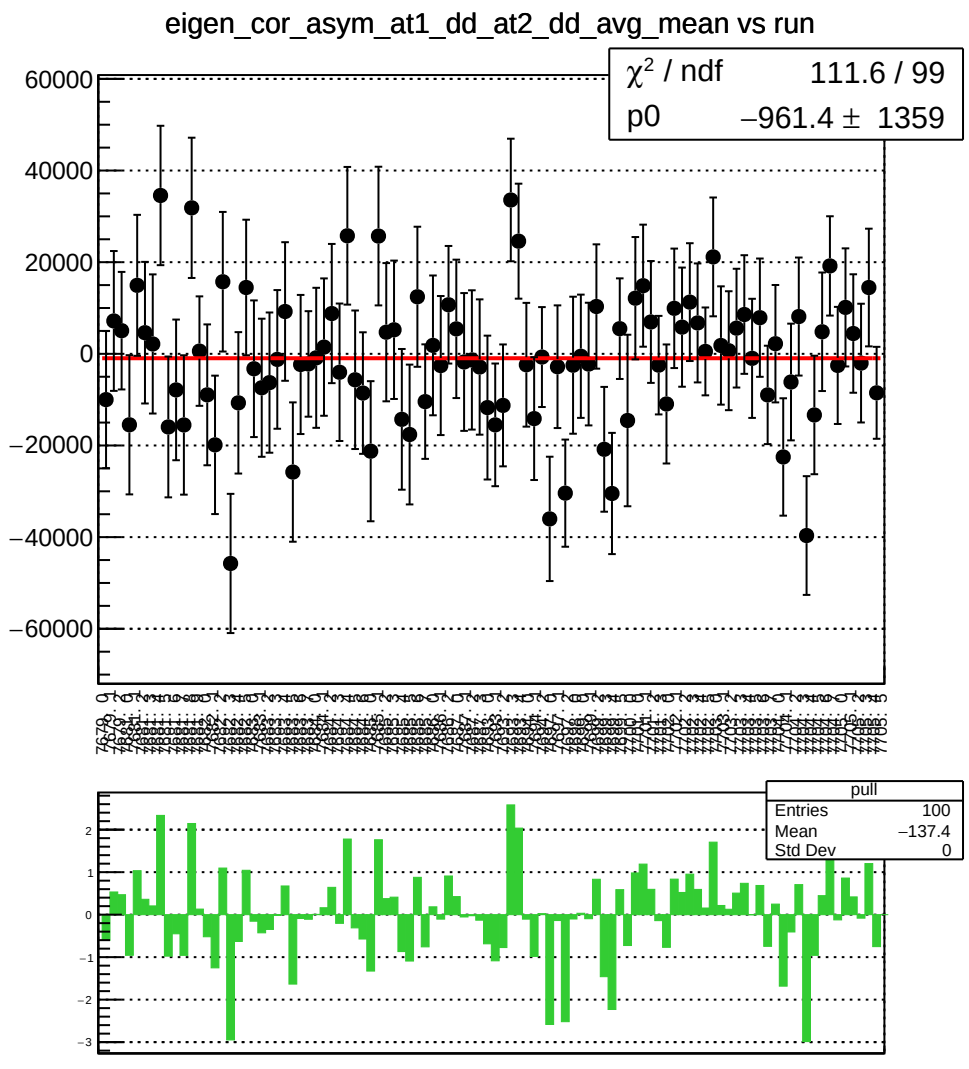

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 111.6 / 99
p0 −961.4 ± 1359
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −137.4
Std Dev 0
2
1
0
−1
−2
−3

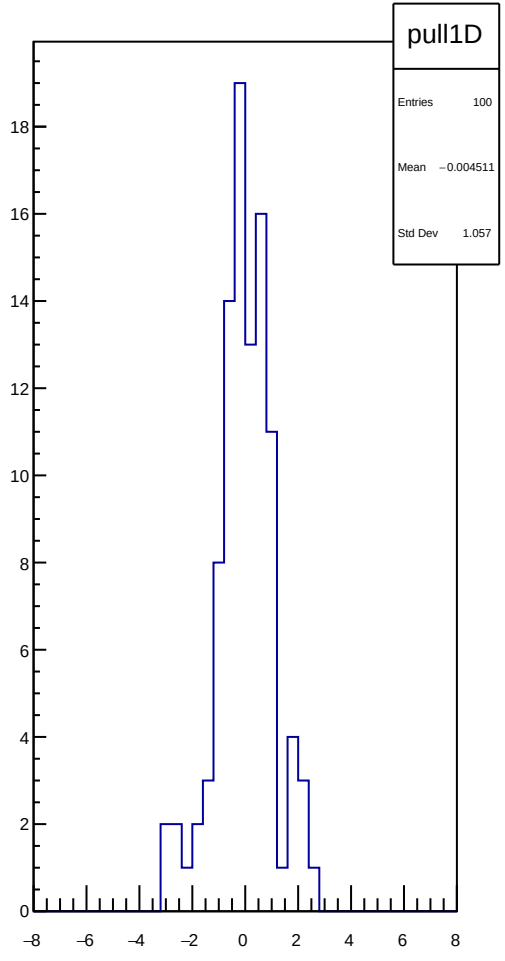

pull1D
Entries 100
Mean −0.004511
Std Dev 1.057
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

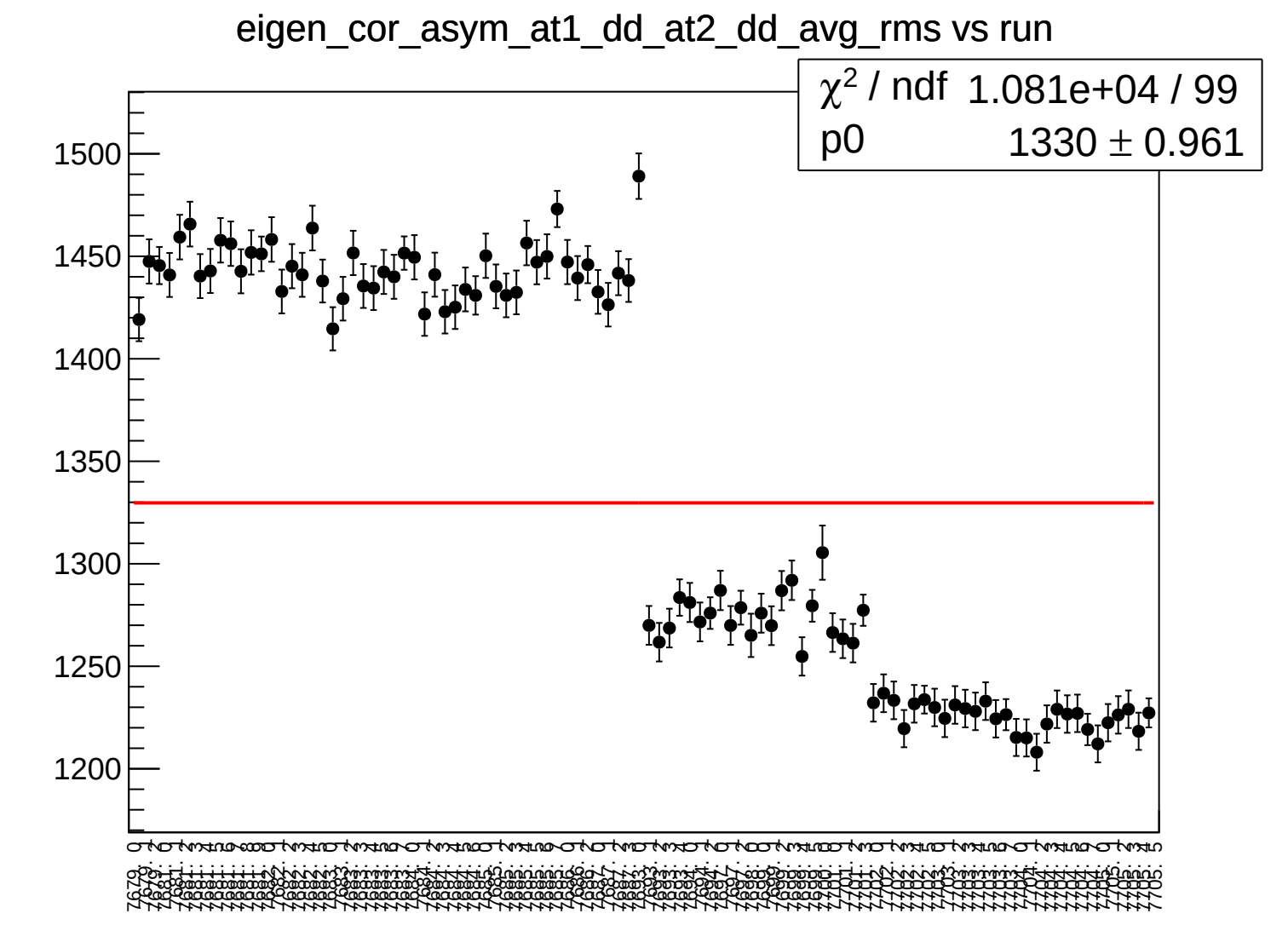

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 1.081e+04 / 99
p0 1330 ± 0.961
1500
1450
1400
1350
1300
1250
1200

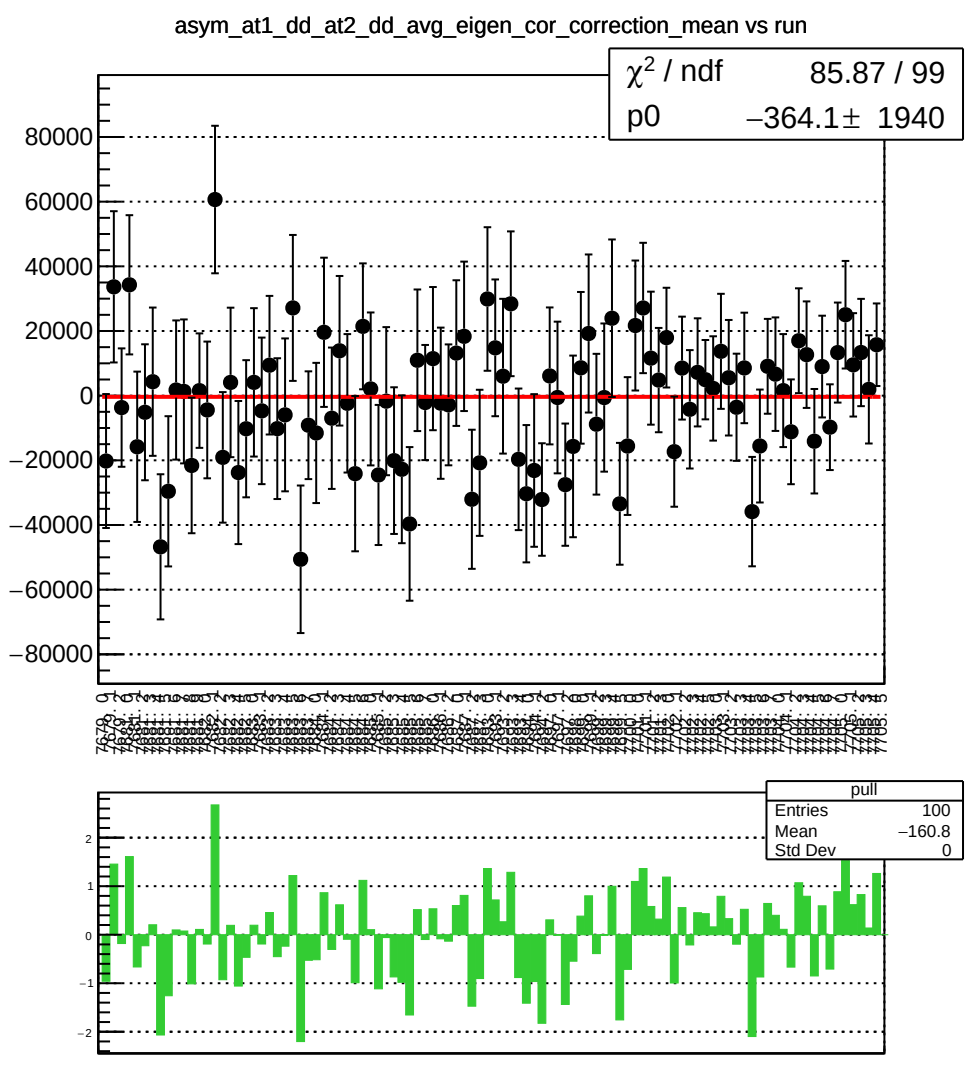

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 85.87 / 99
p0 −364.1± 1940
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −160.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.02184
Std Dev 0.9264
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

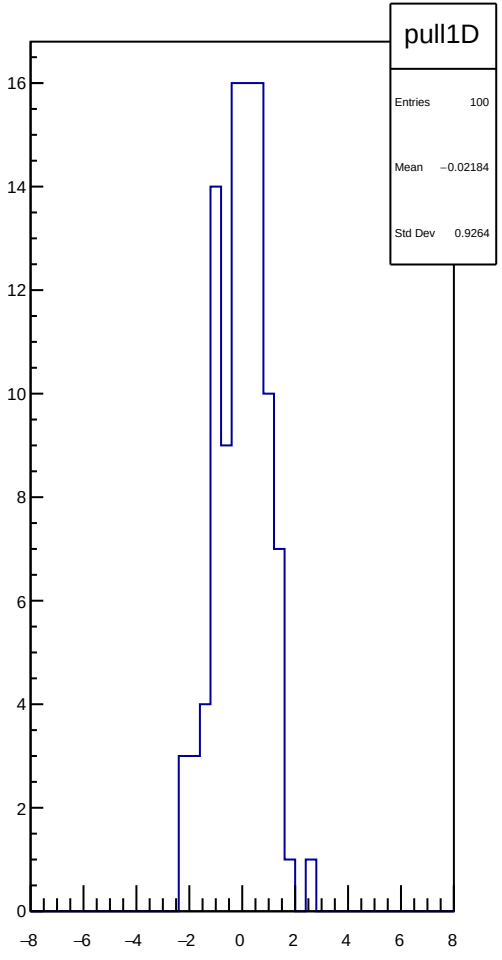

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 4.134e+04 / 99
p0 1883 ± 1.372
2400
2200
2000
1800
1600
1400

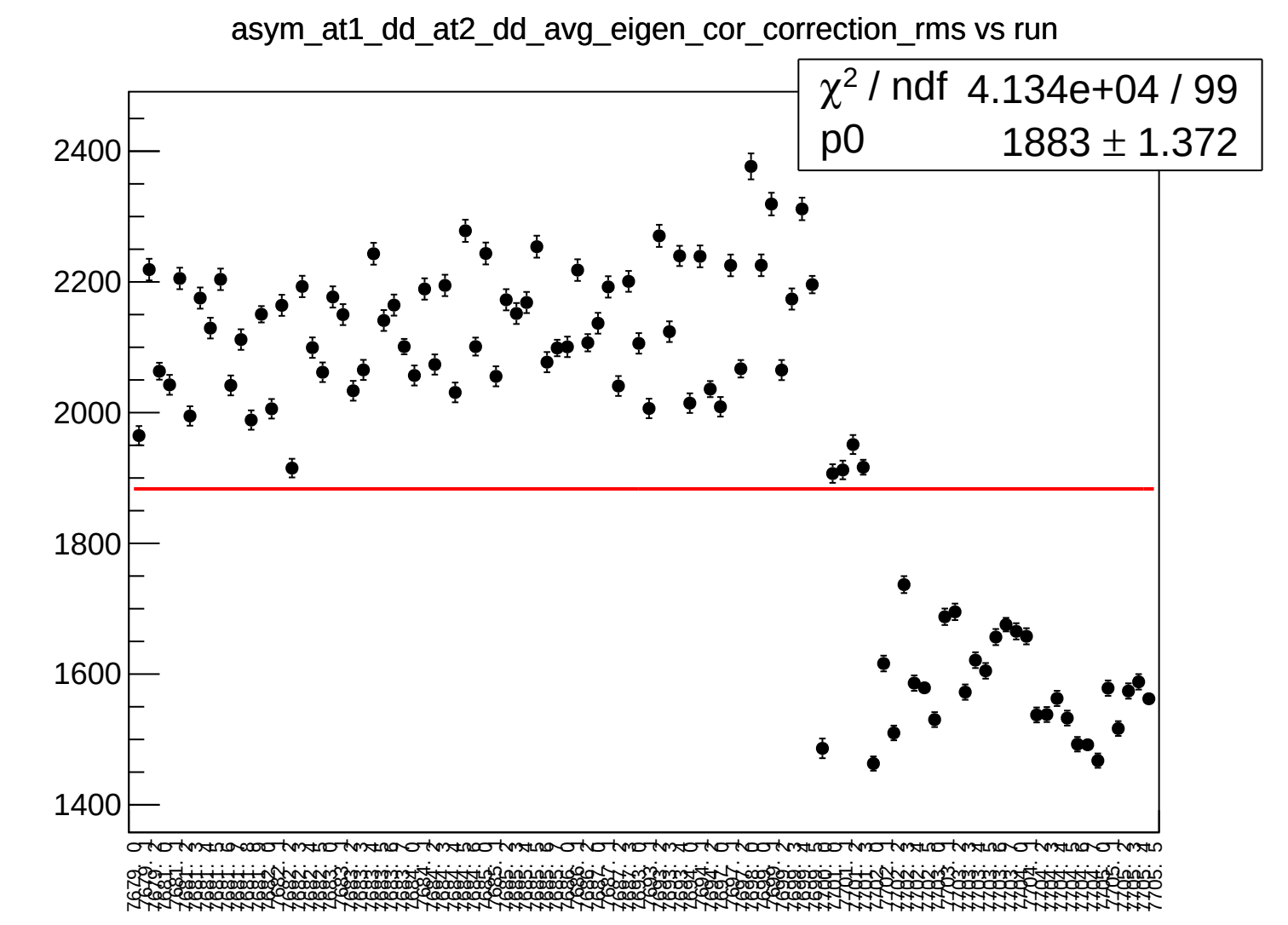

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 111.6 / 99
p0 −961.4 ± 1359
pull
Entries 100
Mean −137.4
Std Dev 0

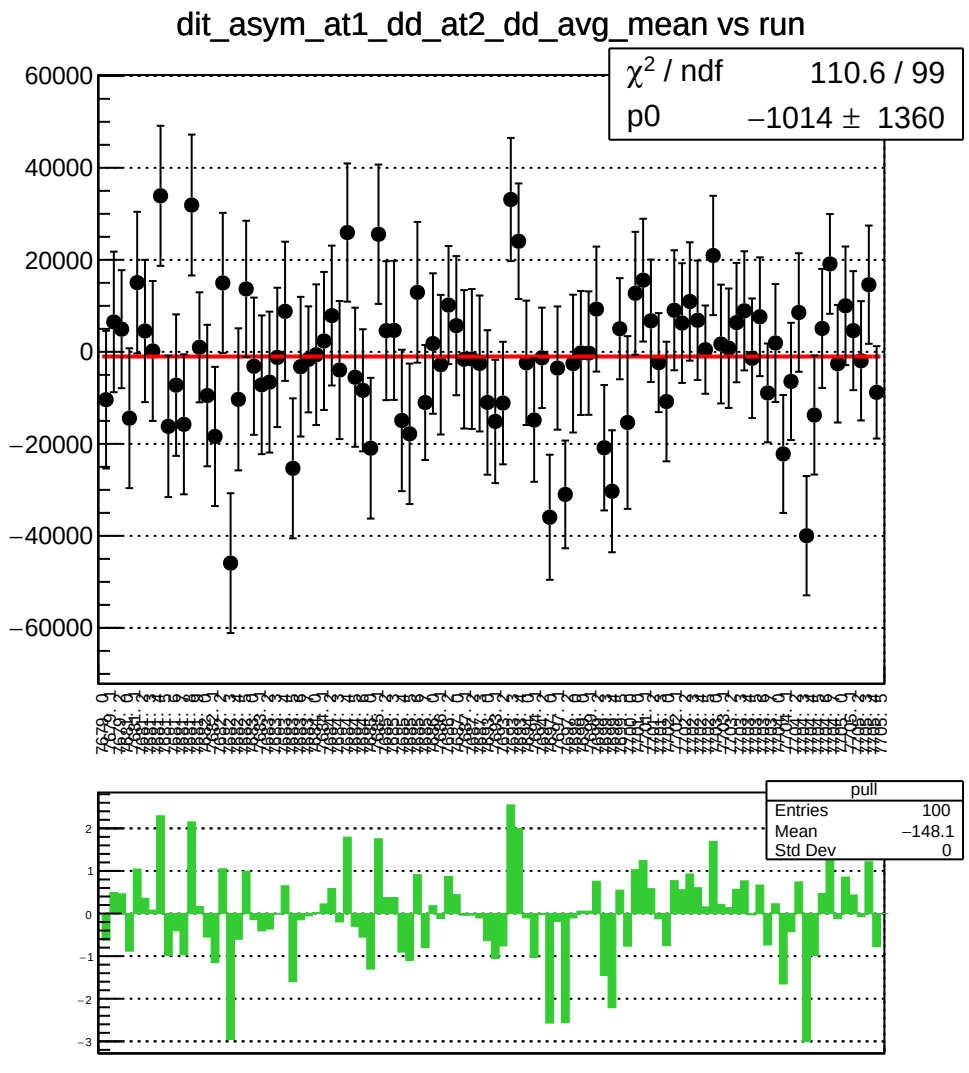

pull1D
Entries 100
Mean −0.004511
Std Dev 1.057

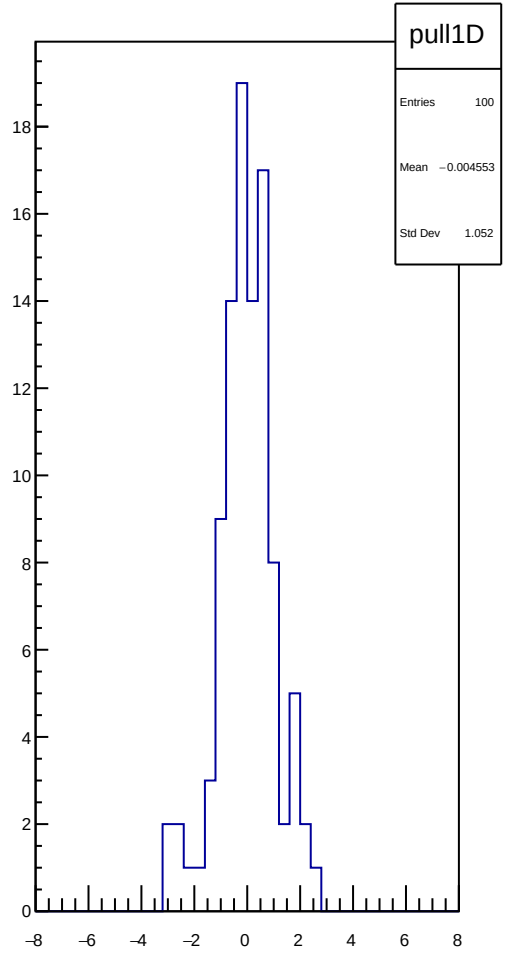

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 1.081e+04 / 99
p0 1330 ± 0.961
1500
1450
1400
1350
1300
1250
1200

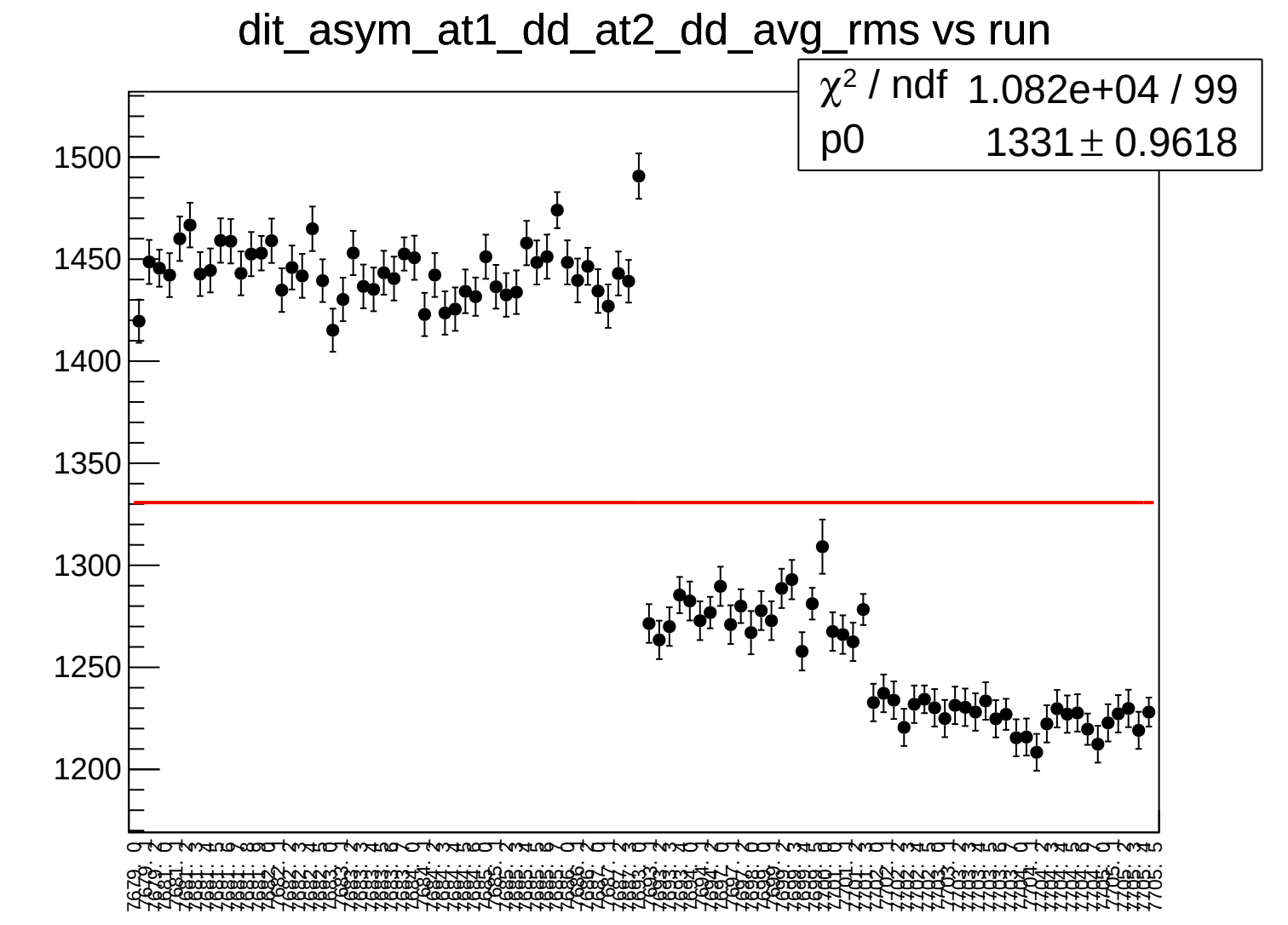

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 85.87 / 99
p0 −364.1± 1940
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −160.8
Std Dev 0
2
1
0
−1
−2

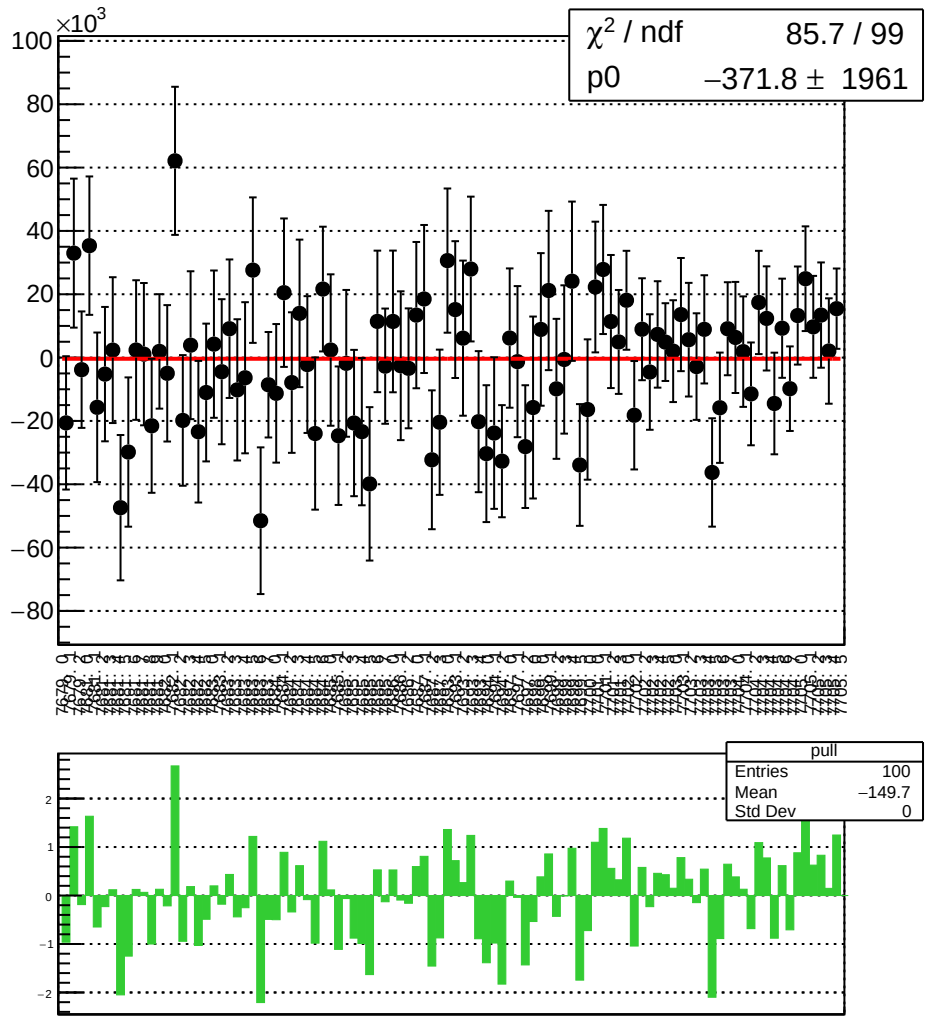

pull1D
Entries 100
Mean −0.02184
Std Dev 0.9264
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

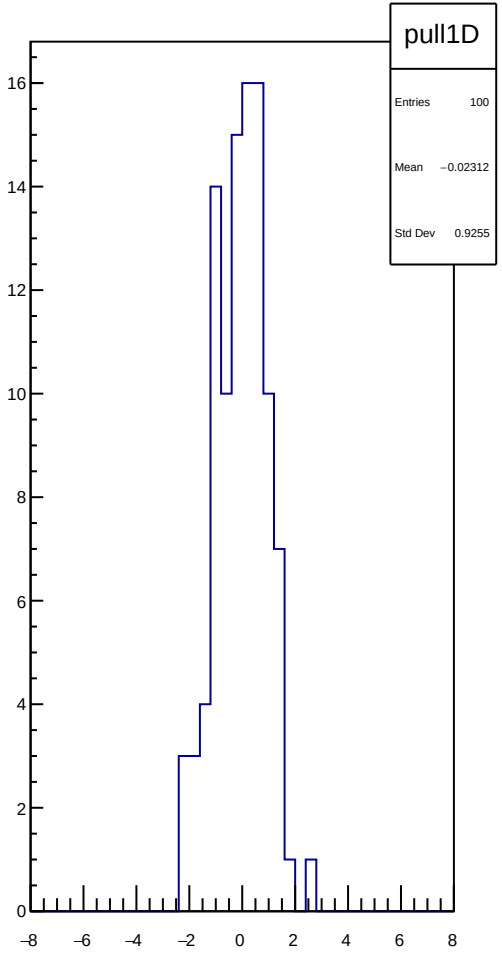

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 4.134e+04 / 99
p0 1883 ± 1.372
2400
2200
2000
1800
1600
1400

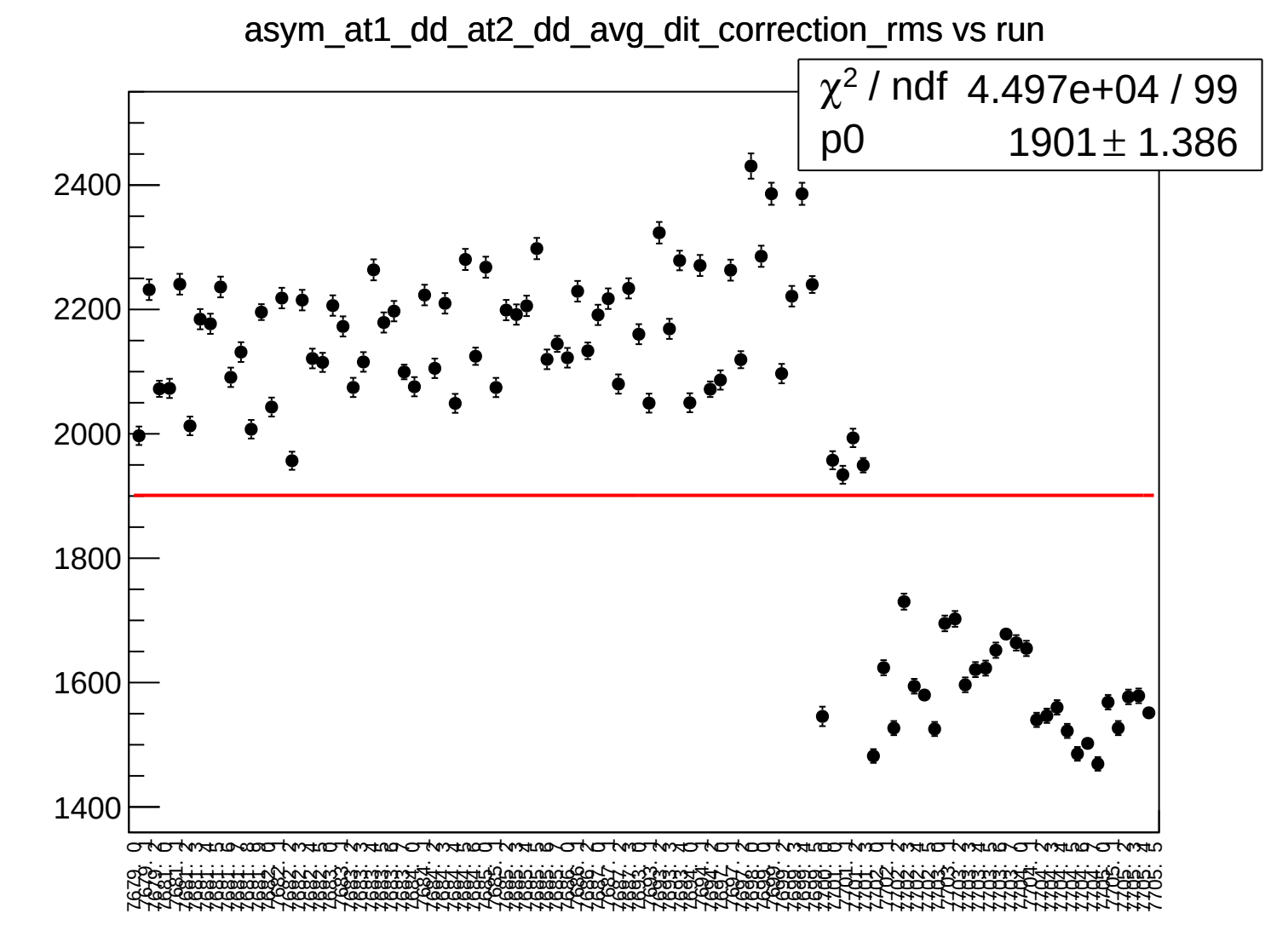

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 110.6 / 99
p0 −1014 ± 1360
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −148.1
Std Dev 0
2
1
0
−1
−2
−3

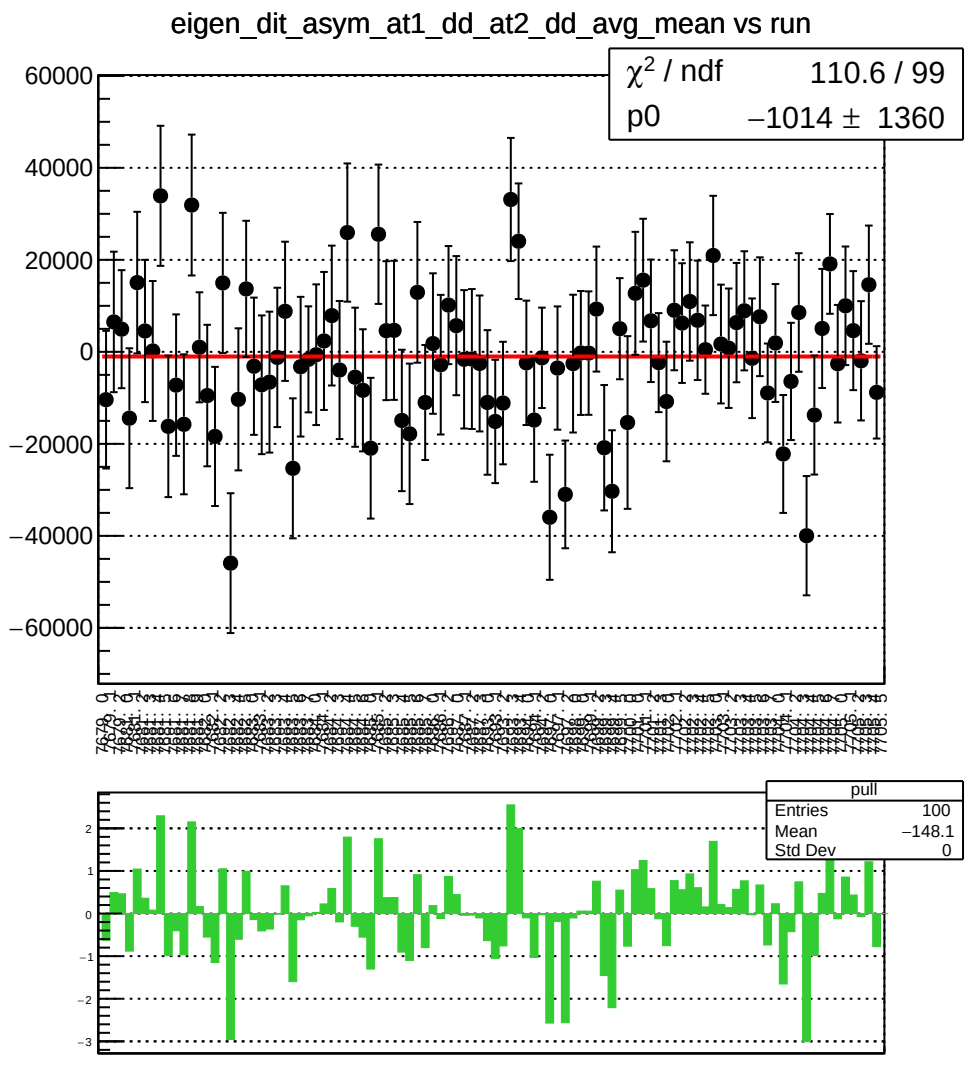

pull1D
Entries 100
Mean −0.004553
Std Dev 1.052
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

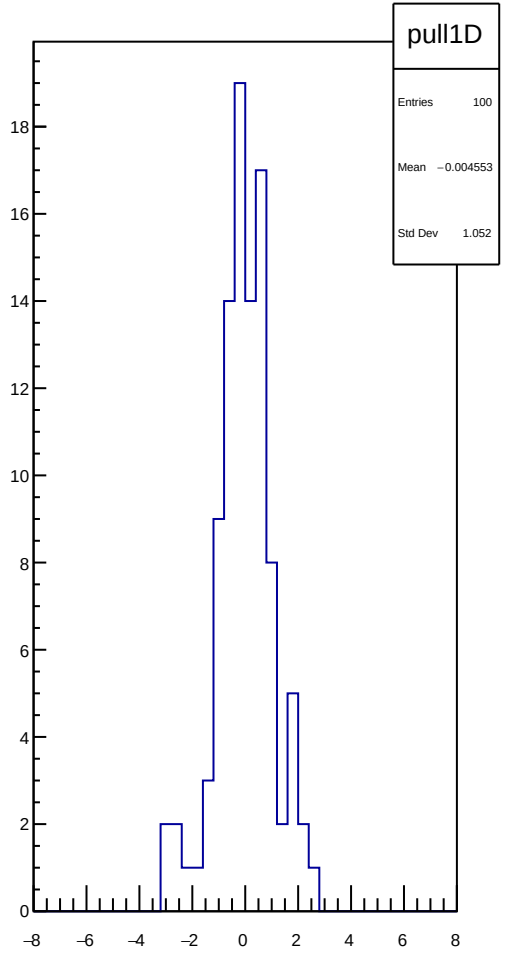

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 1.082e+04 / 99
p0 1331 ± 0.9618
1500
1450
1400
1350
1300
1250
1200

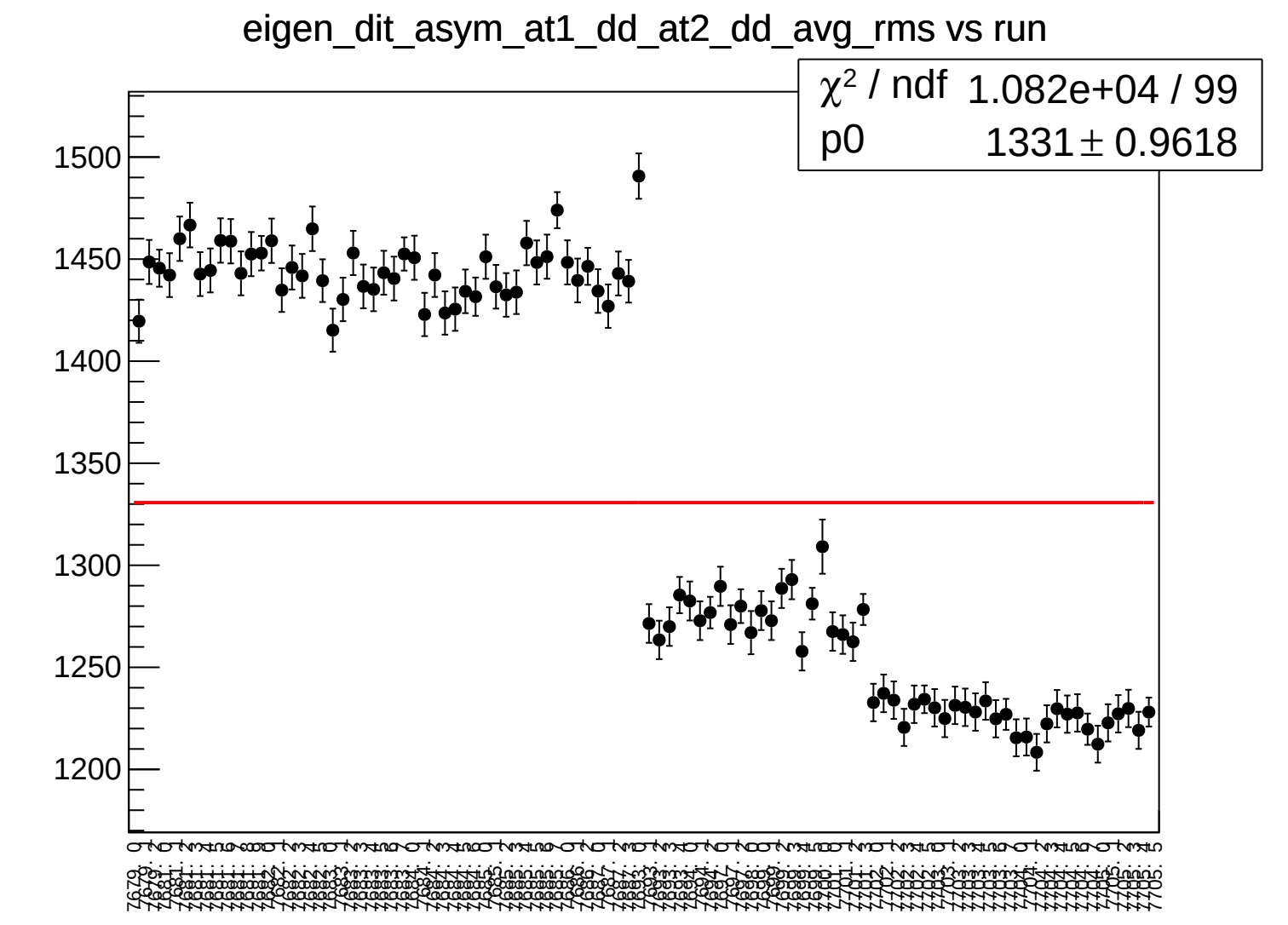

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 85.7 / 99
p0 −371.8 ± 1961
pull
Entries 100
Mean −149.7
Std Dev 0

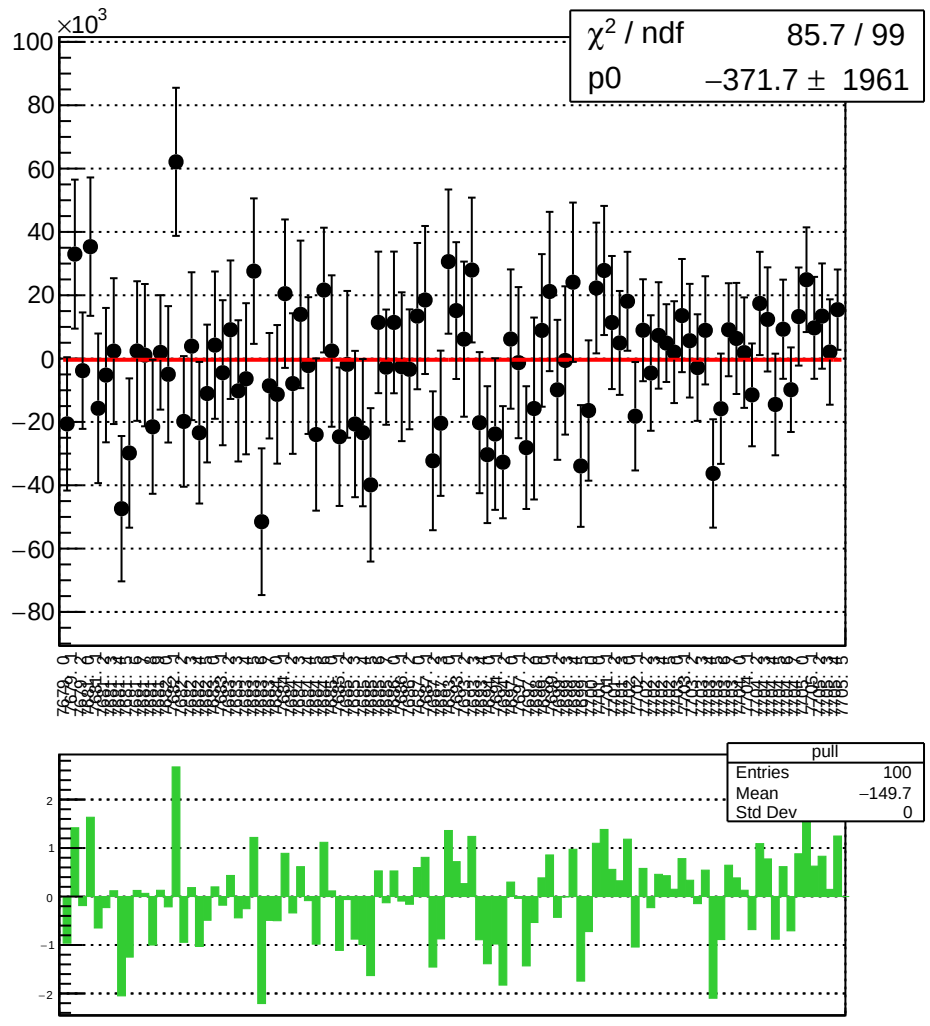

pull1D
Entries 100
Mean −0.02312
Std Dev 0.9255

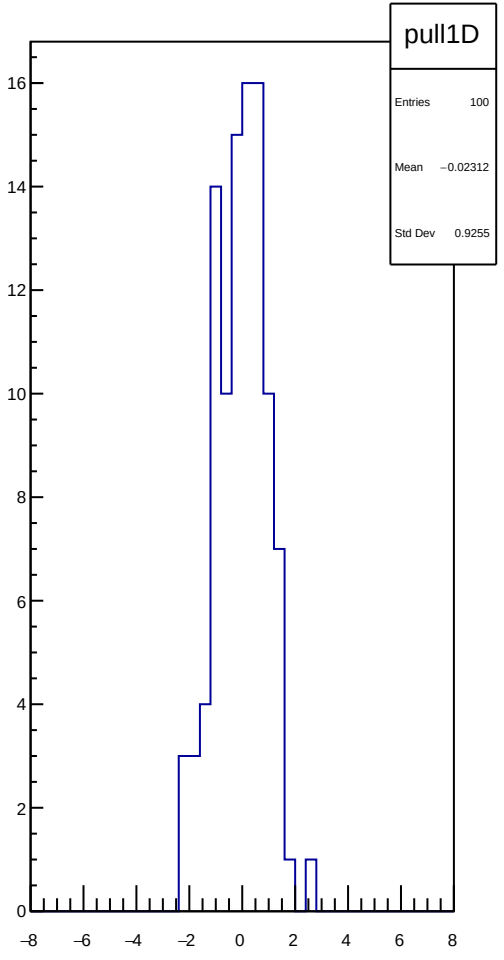

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 4.497e+04 / 99
p0 1901 ± 1.386
2400
2200
2000
1800
1600
1400

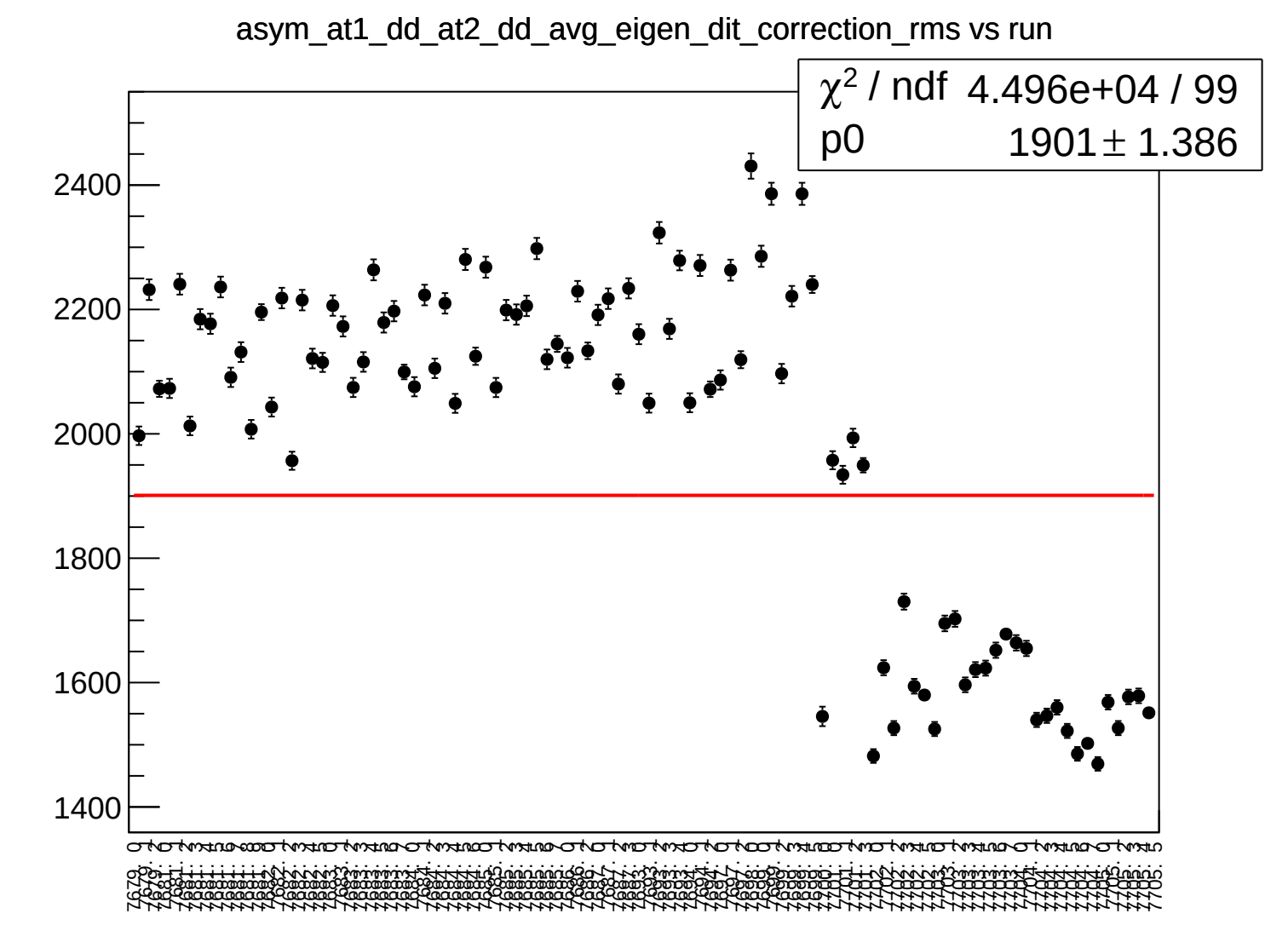

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 110.6 / 99
p0 −1014 ± 1360
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −148.1
Std Dev 0
2
1
0
−1
−2
−3

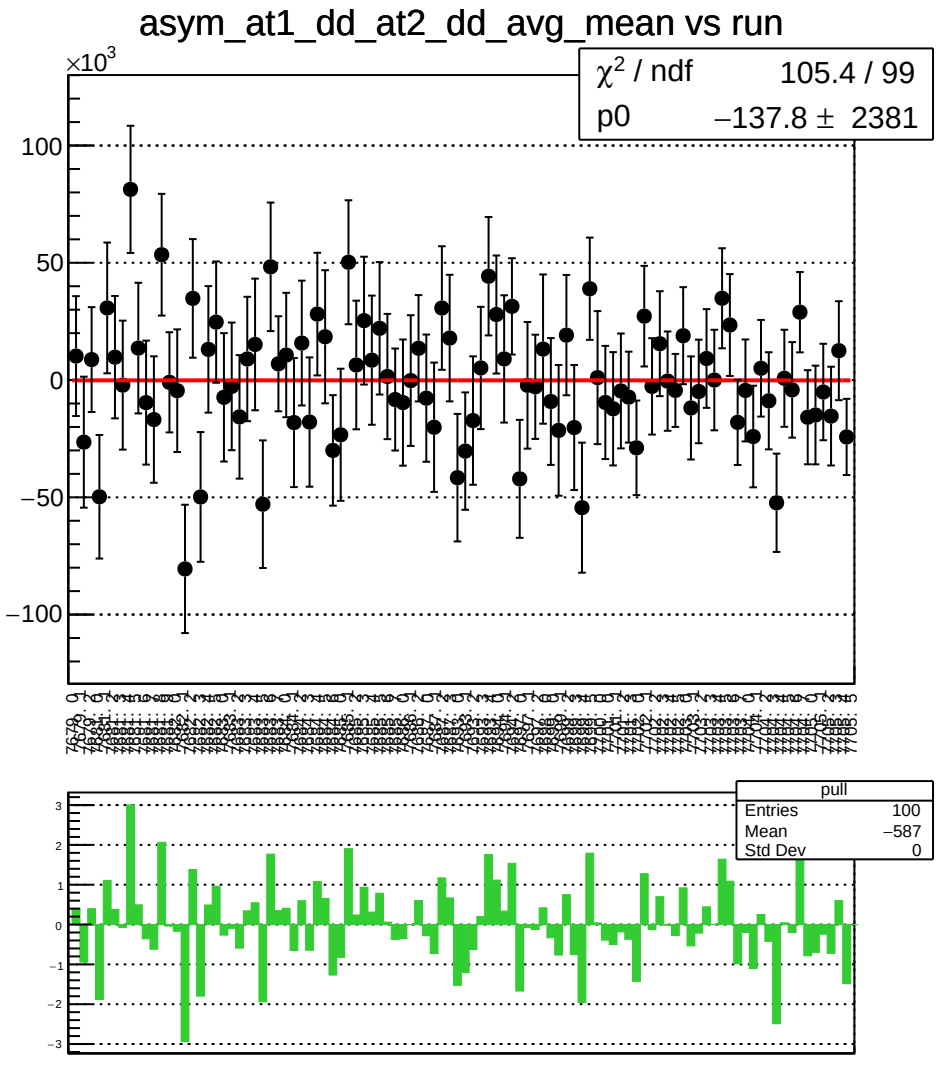

pull1D
Entries 100
Mean −0.004553
Std Dev 1.052
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

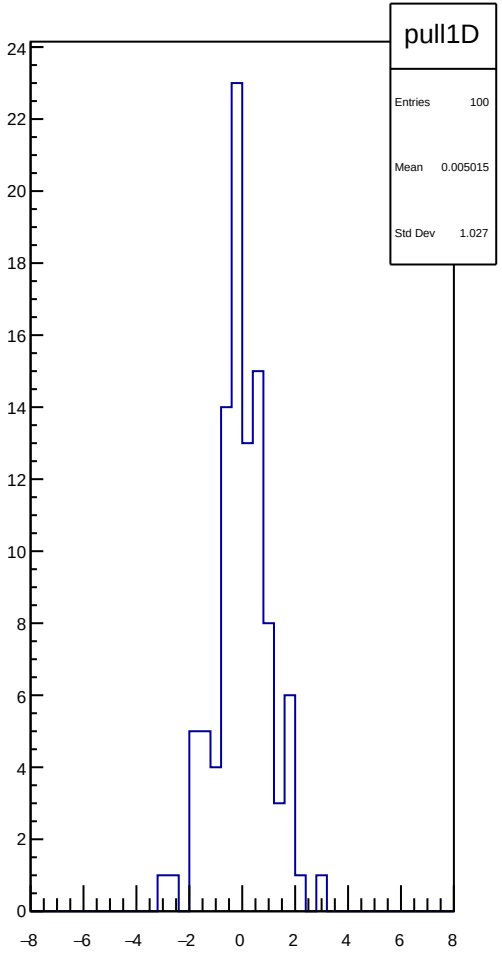

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 1.082e+04 / 99
p0 1331 ± 0.9618
1500
1450
1400
1350
1300
1250
1200

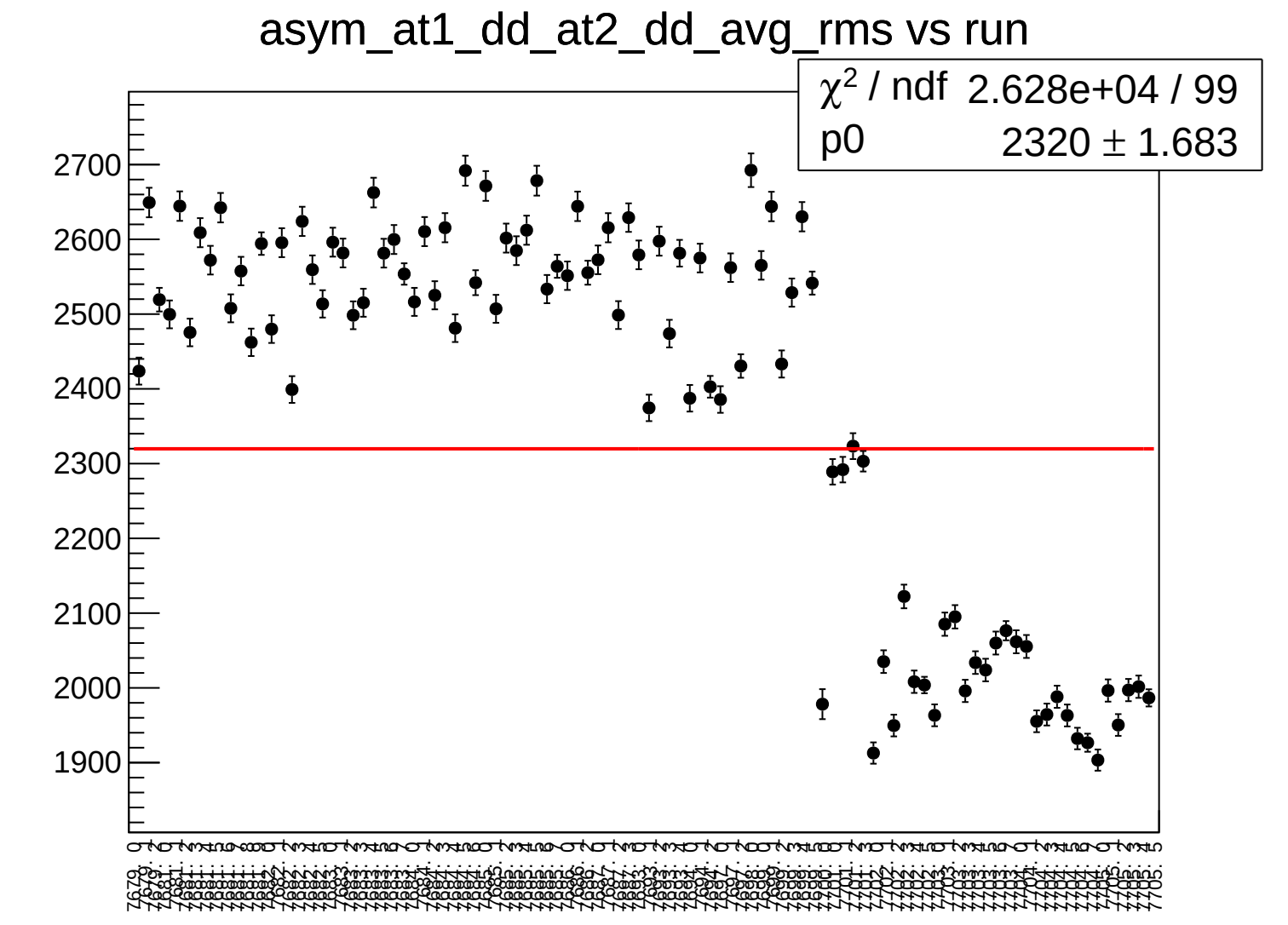

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.7 / 99
p0 −371.7 ± 1961
pull
Entries 100
Mean −149.7
Std Dev 0

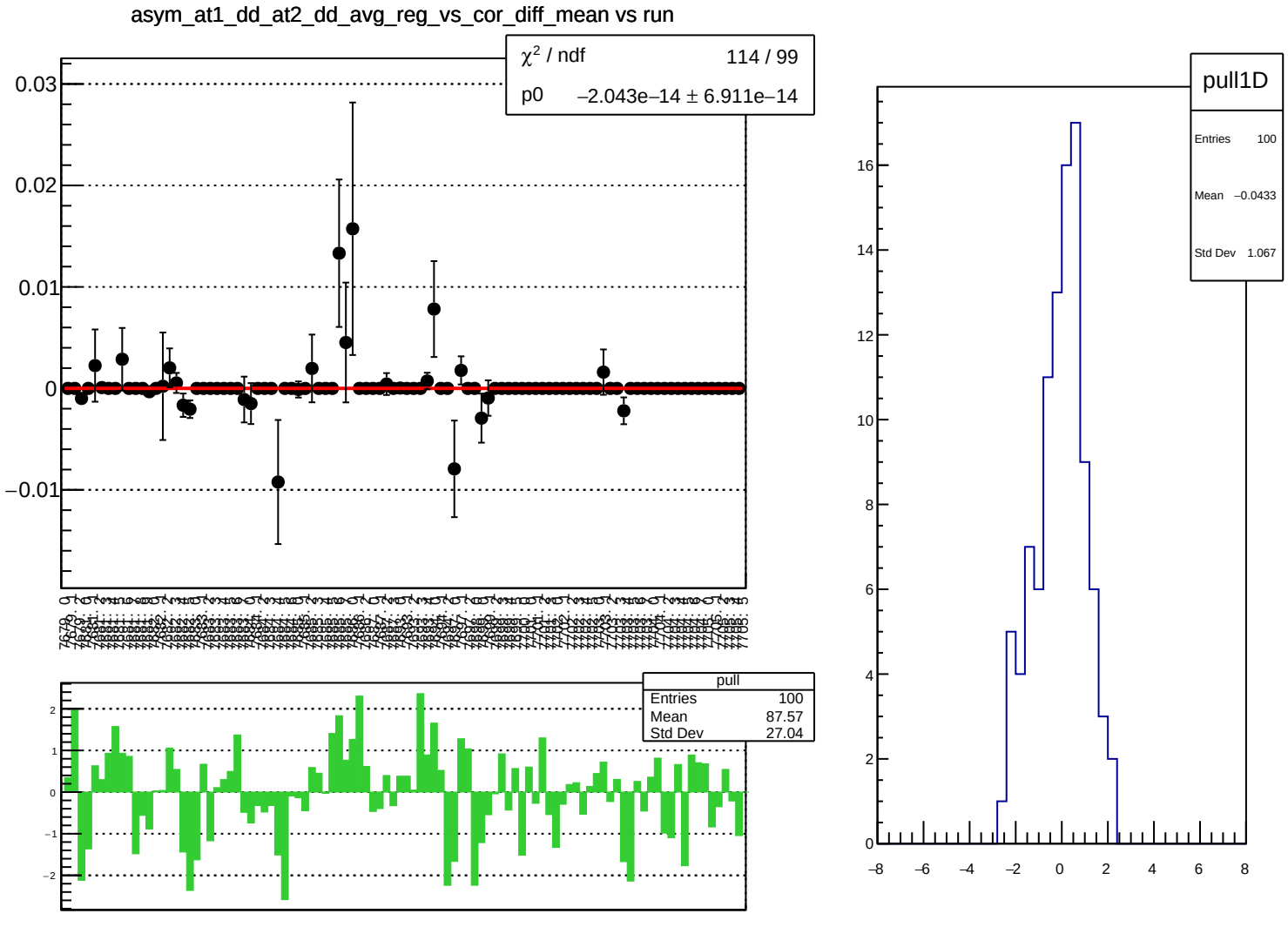

pull1D
Entries 100
Mean −0.02312
Std Dev 0.9255

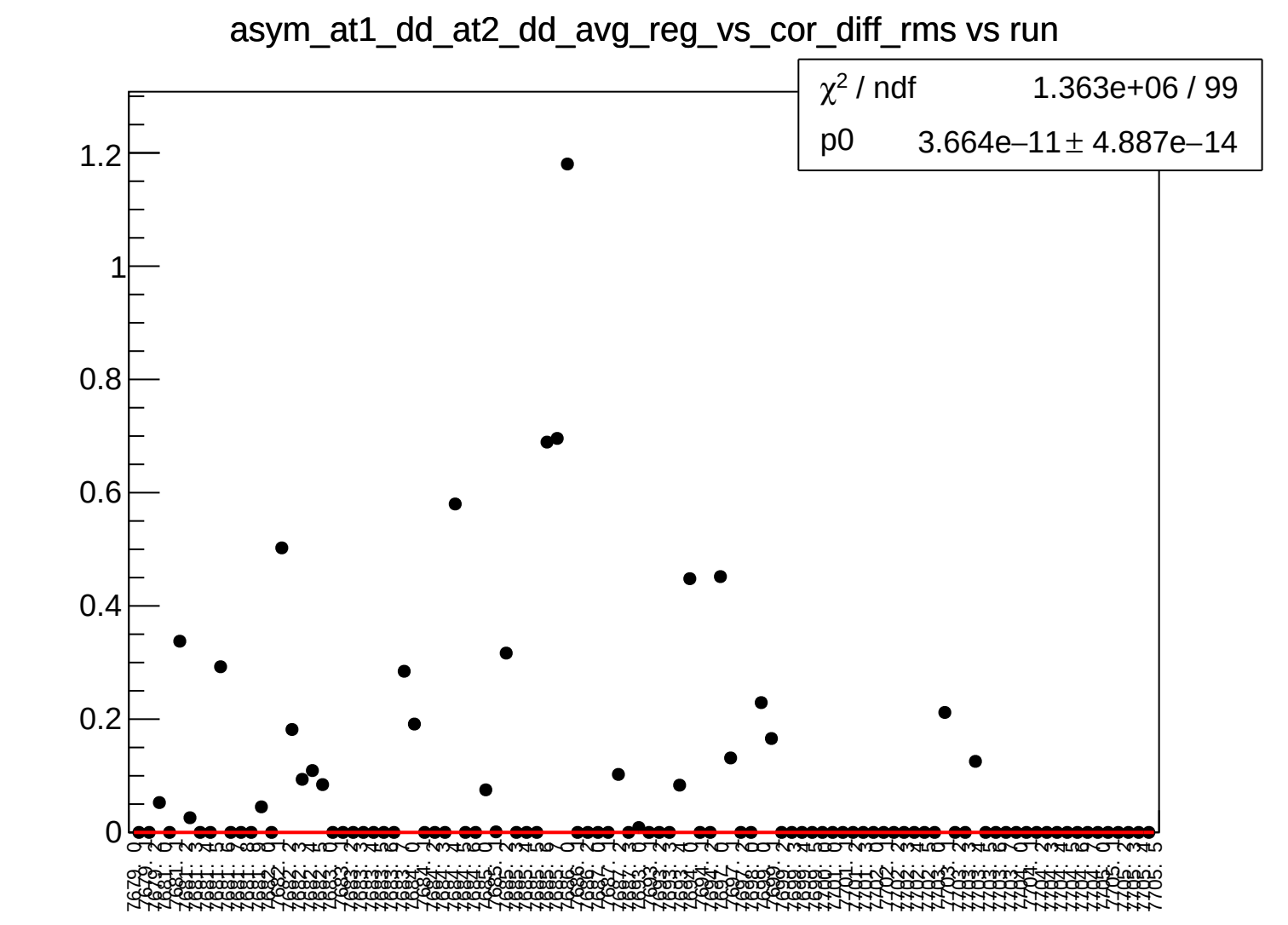

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 4.496e+04 / 99
p0 1901 ± 1.386
2400
2200
2000
1800
1600
1400

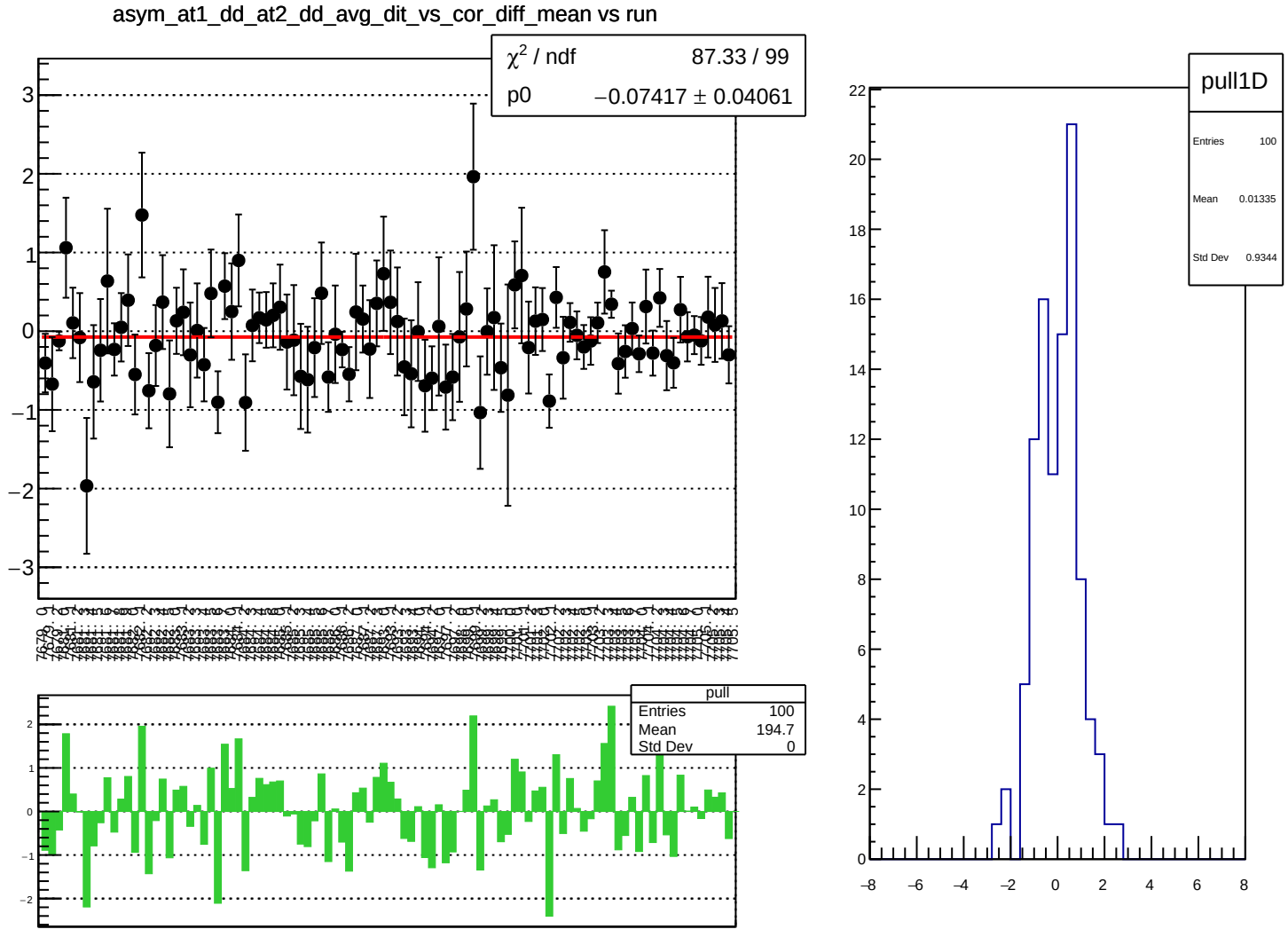

asym_at1_dd_at2_dd_avg_mean vs run
×10^3
χ^2 / ndf 105.4 / 99
p0 −137.8 ± 2381
100
50
0
−50
−100
pull
Entries 100
Mean −587
Std Dev 0
3
2
1
0
−1
−2
−3

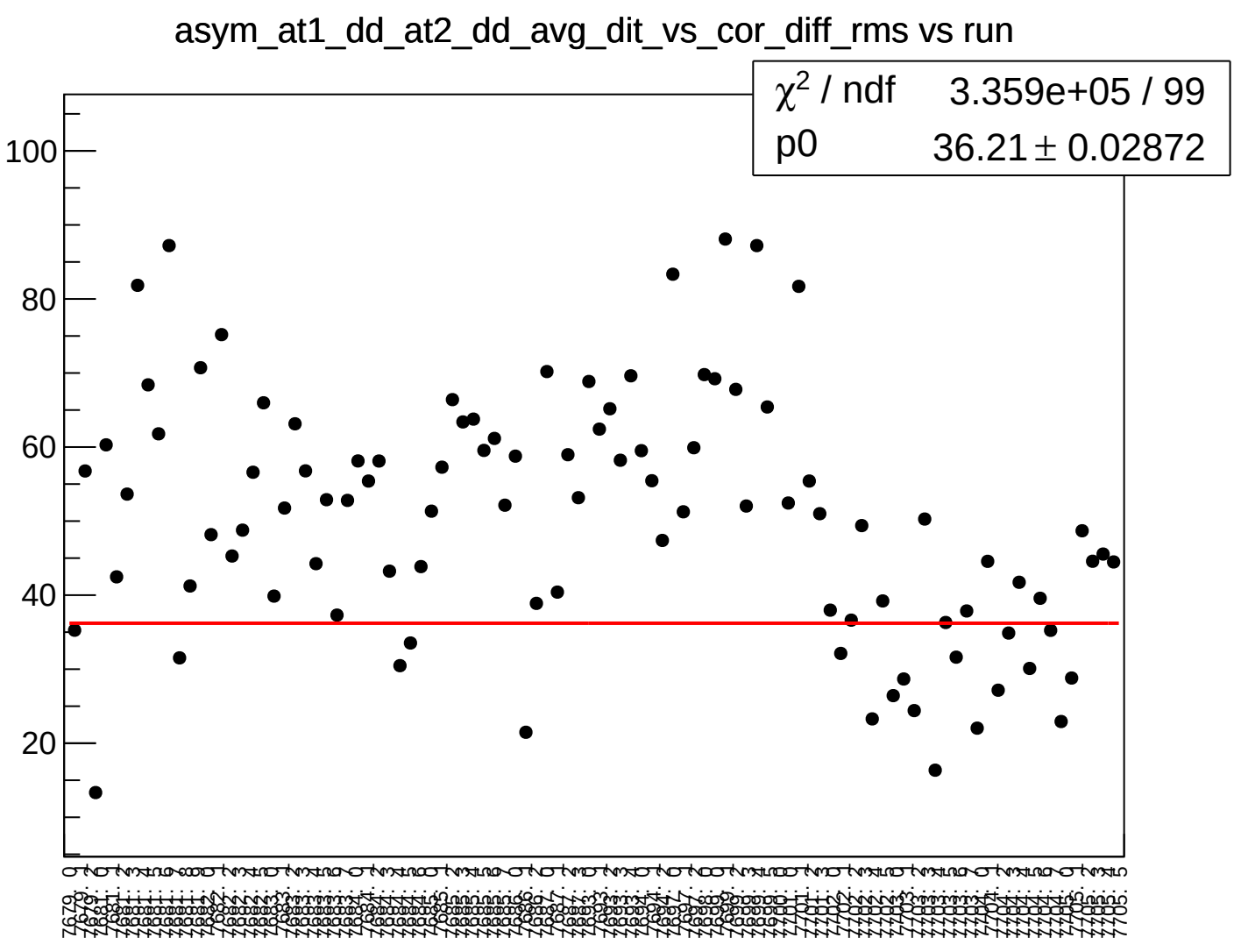

pull1D
Entries 100
Mean 0.005015
Std Dev 1.027
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

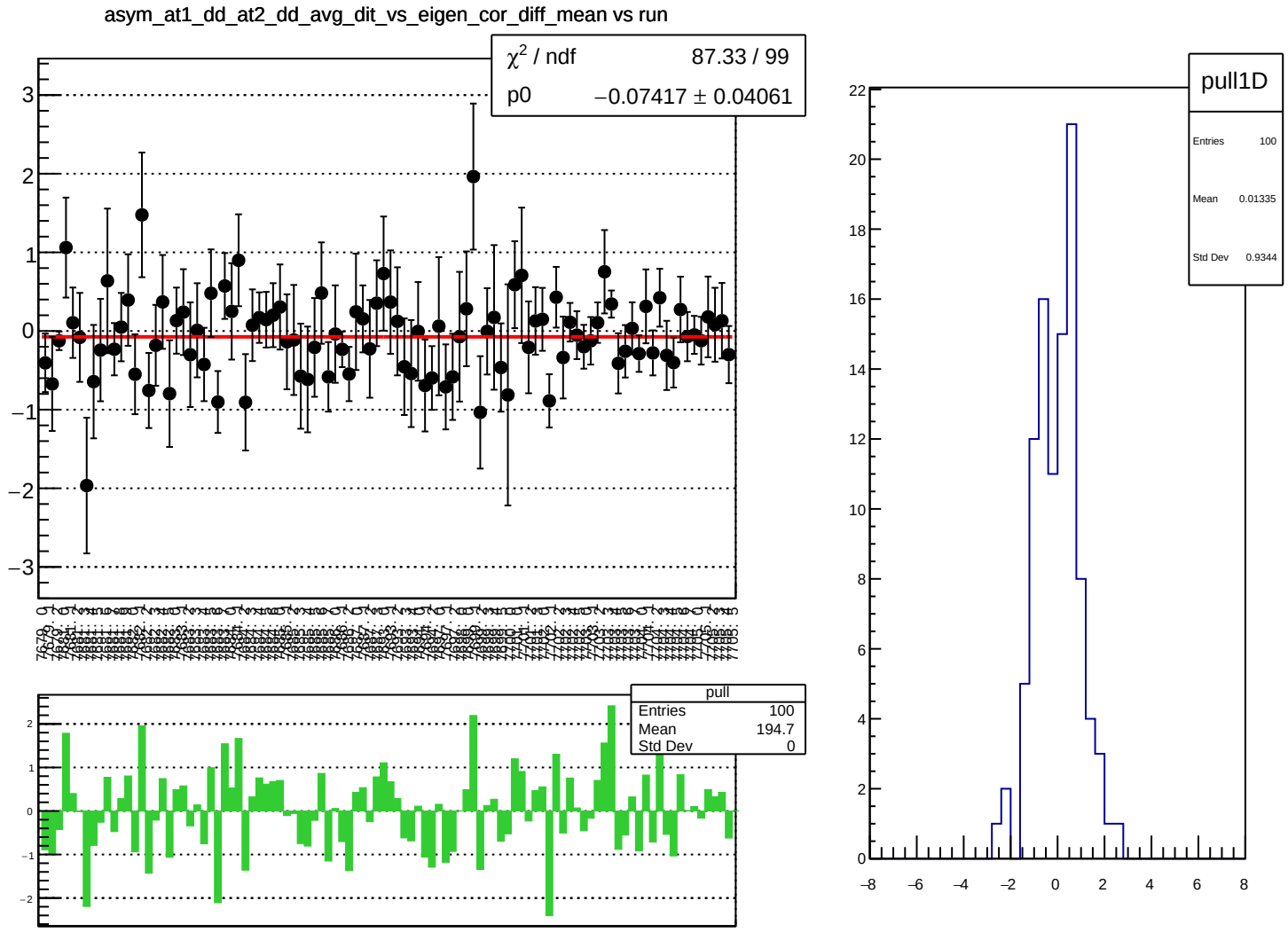

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 2.628e+04 / 99
p0 2320 ± 1.683
2700
2600
2500
2400
2300
2200
2100
2000
1900

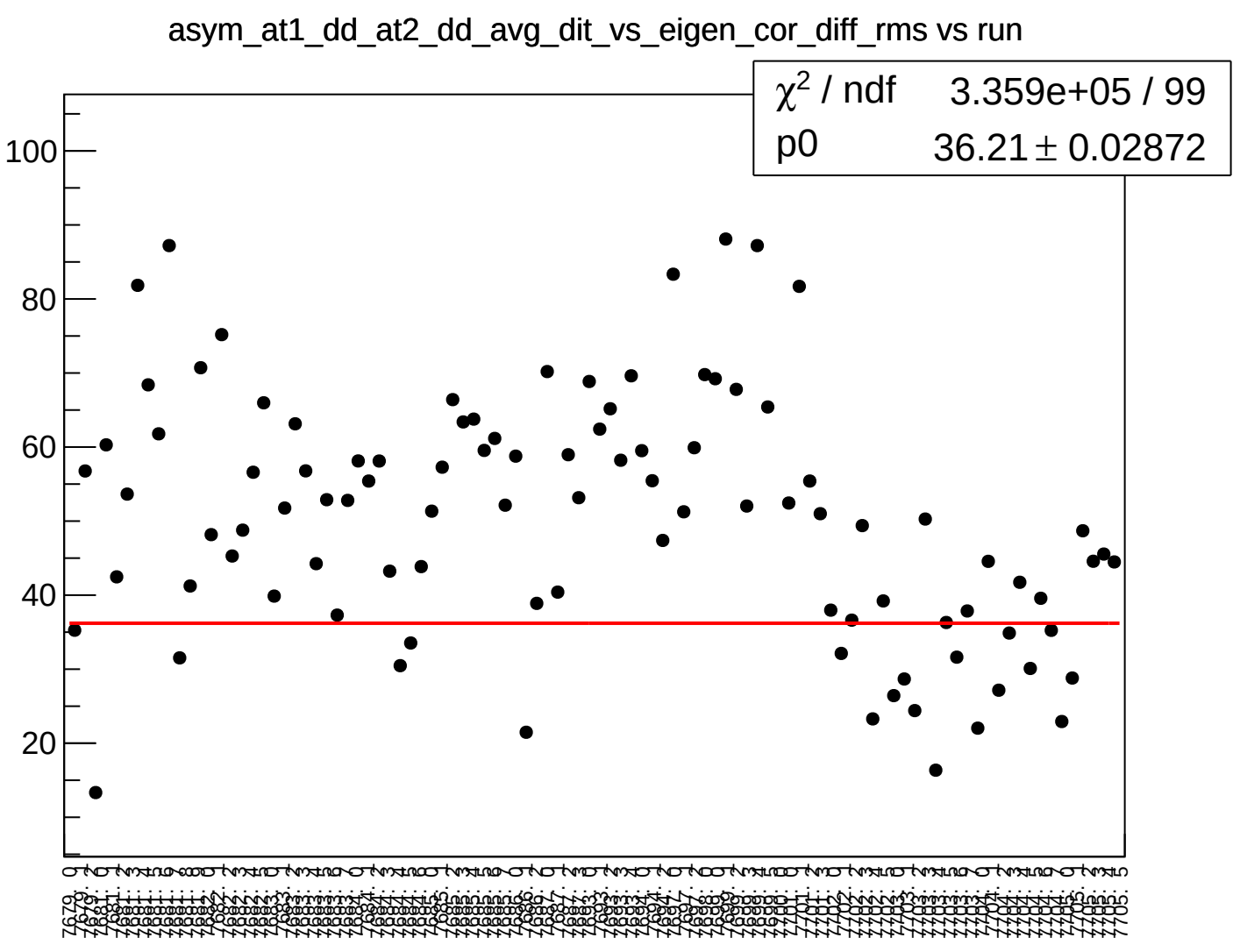

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 114 / 99
p0 −2.043e−14 ± 6.911e−14
0.03
0.02
0.01
0
−0.01
pull
Entries 100
Mean 87.57
Std Dev 27.04
pull1D
Entries 100
Mean −0.0433
Std Dev 1.067

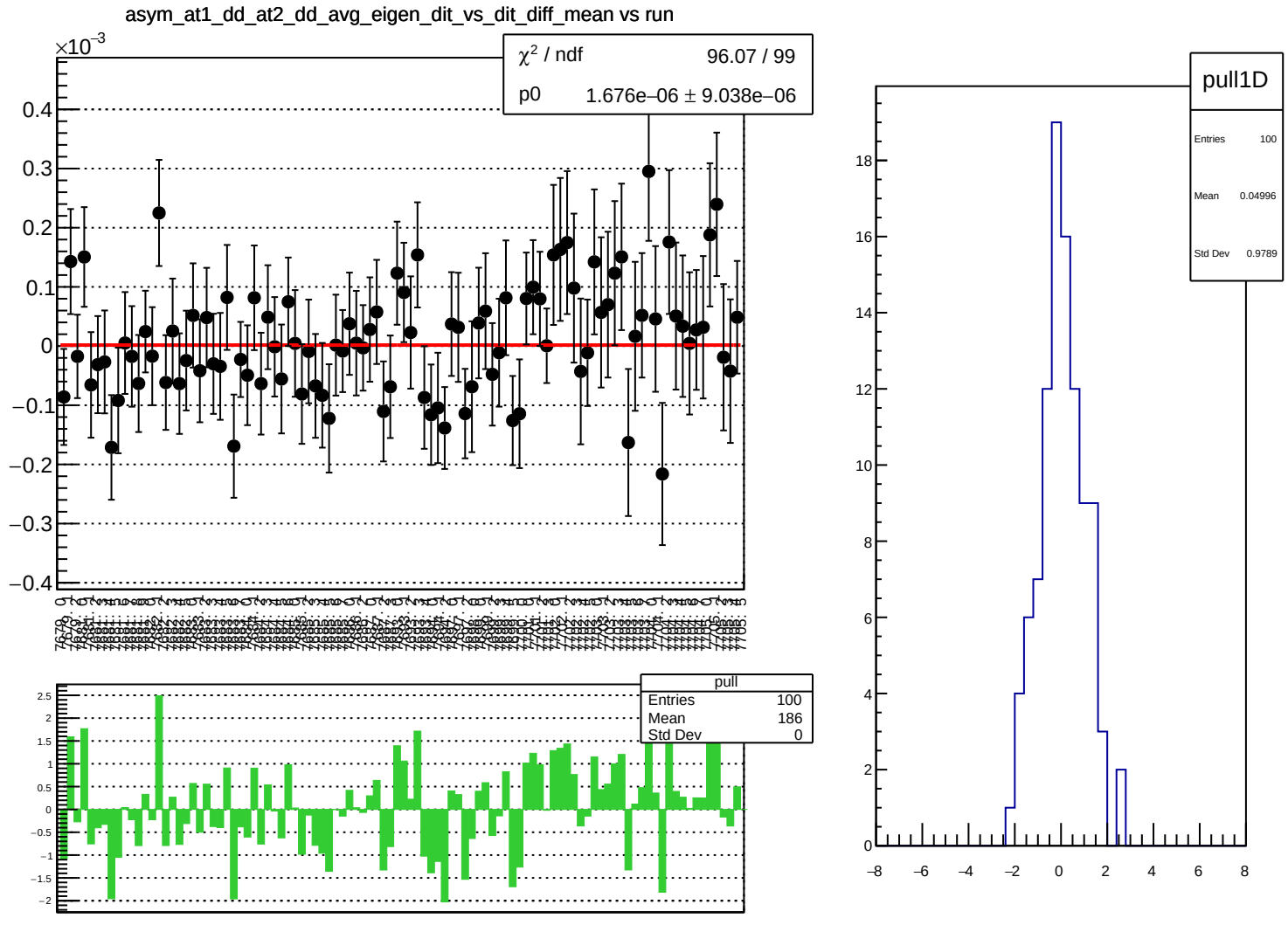

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.363e+06 / 99
p0 3.664e−11 ± 4.887e−14
1.2
1
0.8
0.6
0.4
0.2
0

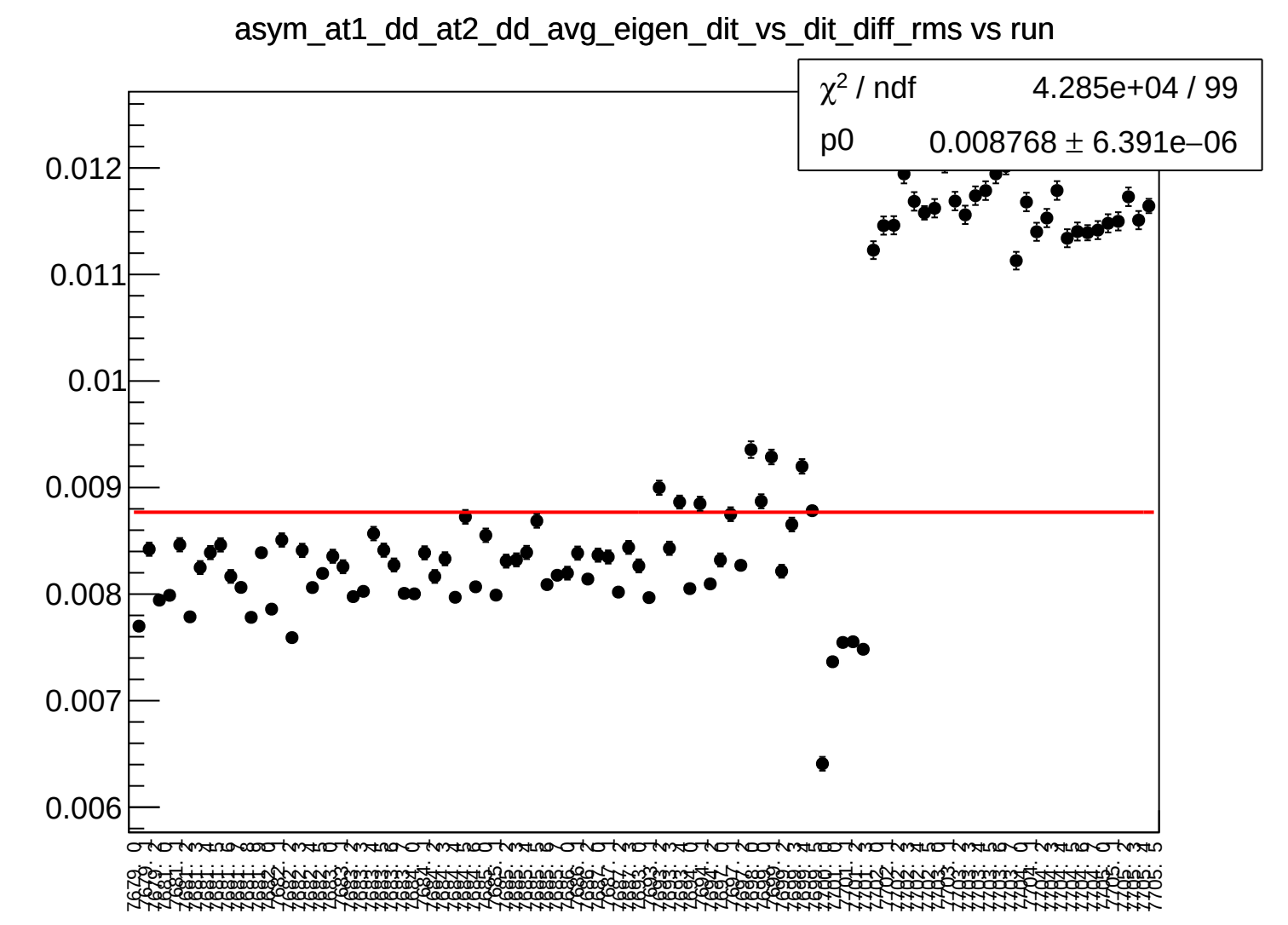

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 87.33 / 99
p0 −0.07417 ± 0.04061
pull
Entries 100
Mean 194.7
Std Dev 0
pull1D
Entries 100
Mean 0.01335
Std Dev 0.9344

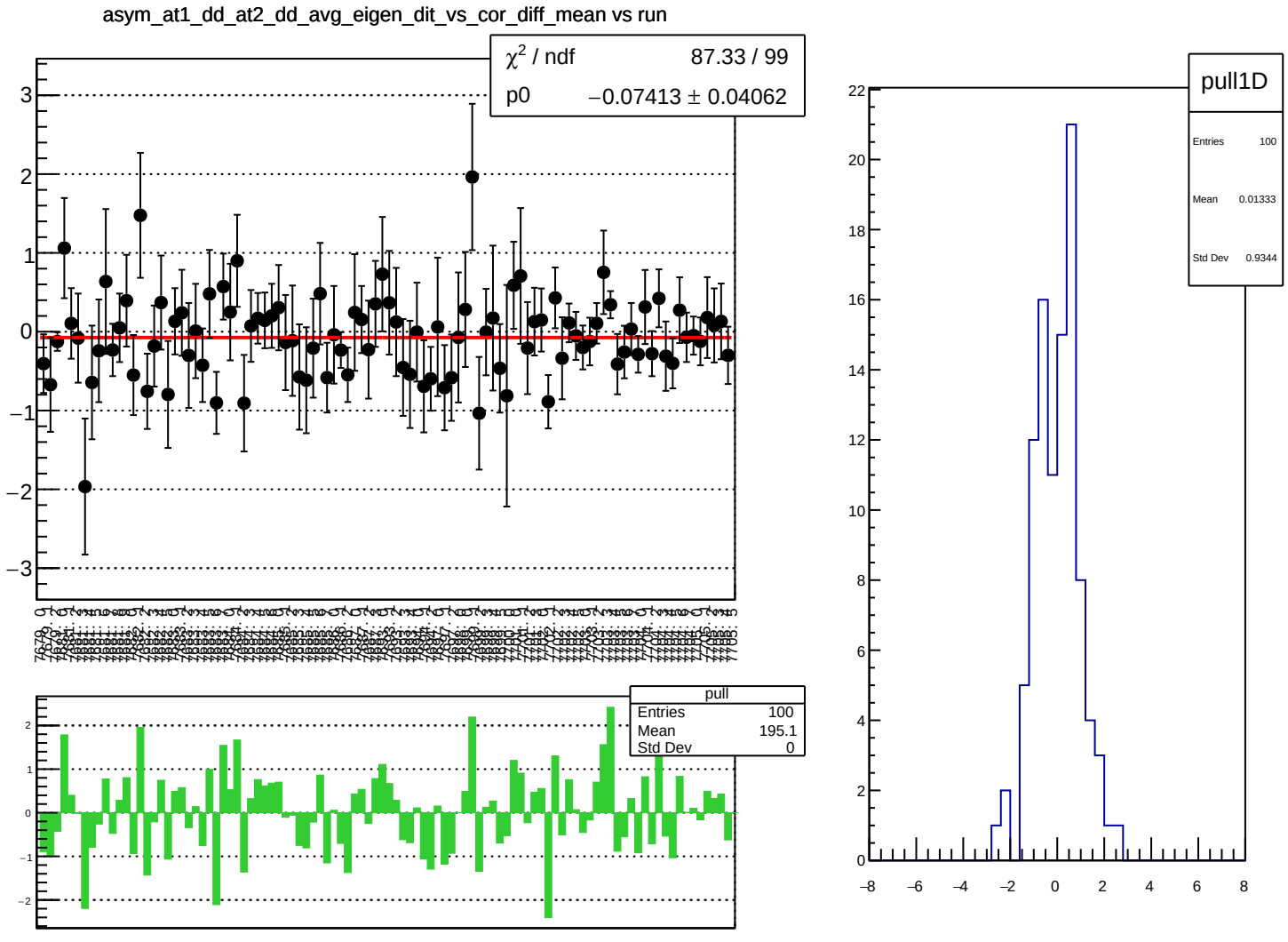

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.359e+05 / 99
p0 36.21 ± 0.02872
100
80
60
40
20

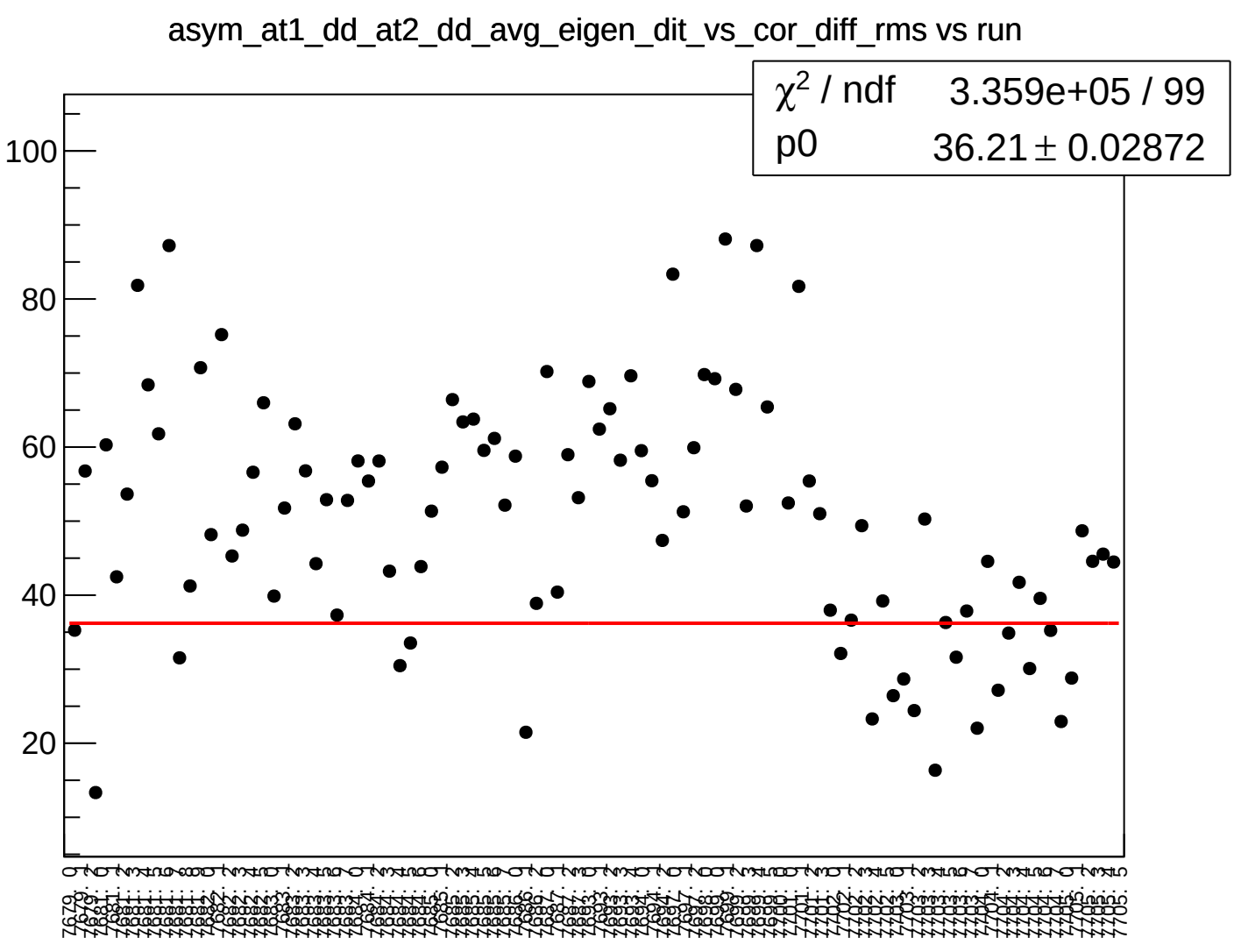

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.33 / 99
p0 −0.07417 ± 0.04061
pull
Entries 100
Mean 194.7
Std Dev 0
pull1D
Entries 100
Mean 0.01335
Std Dev 0.9344

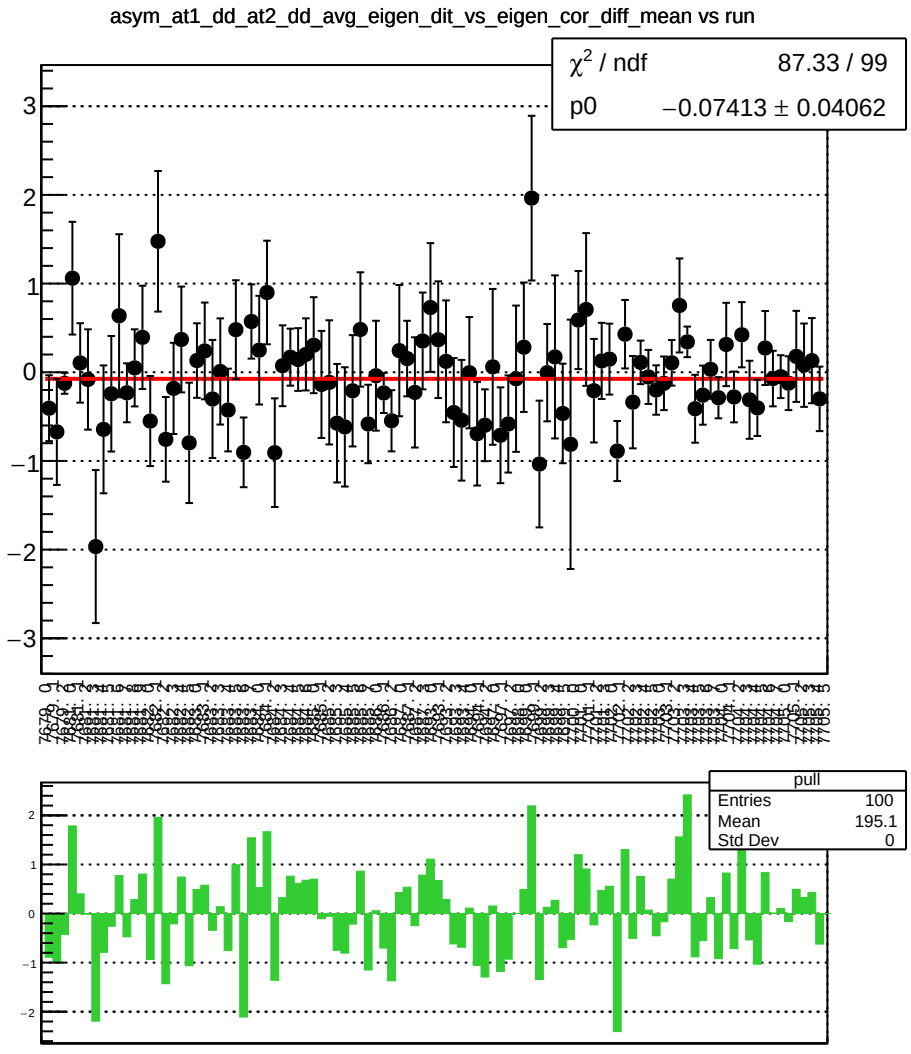

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.359e+05 / 99
p0 36.21 ± 0.02872
100
80
60
40
20

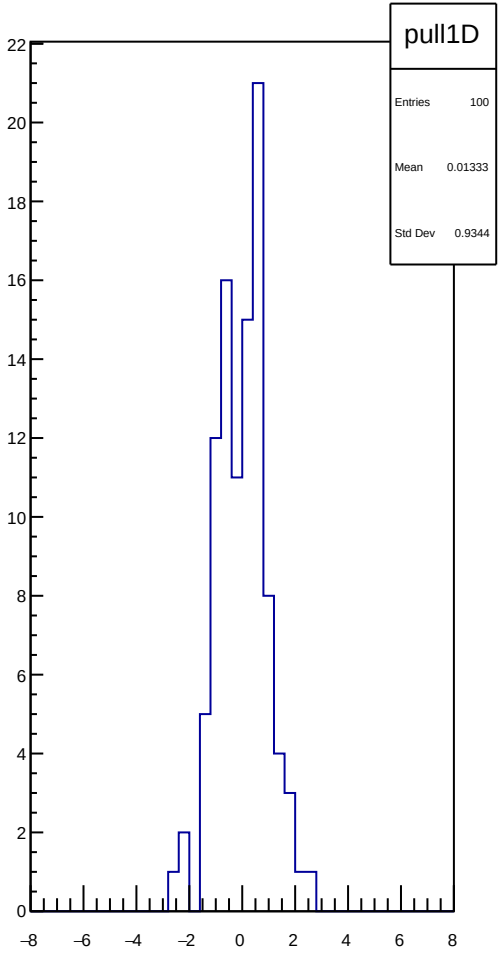

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.07 / 99
p0 1.676e−06 ± 9.038e−06
pull
Entries 100
Mean 186
Std Dev 0
pull1D
Entries 100
Mean 0.04996
Std Dev 0.9789

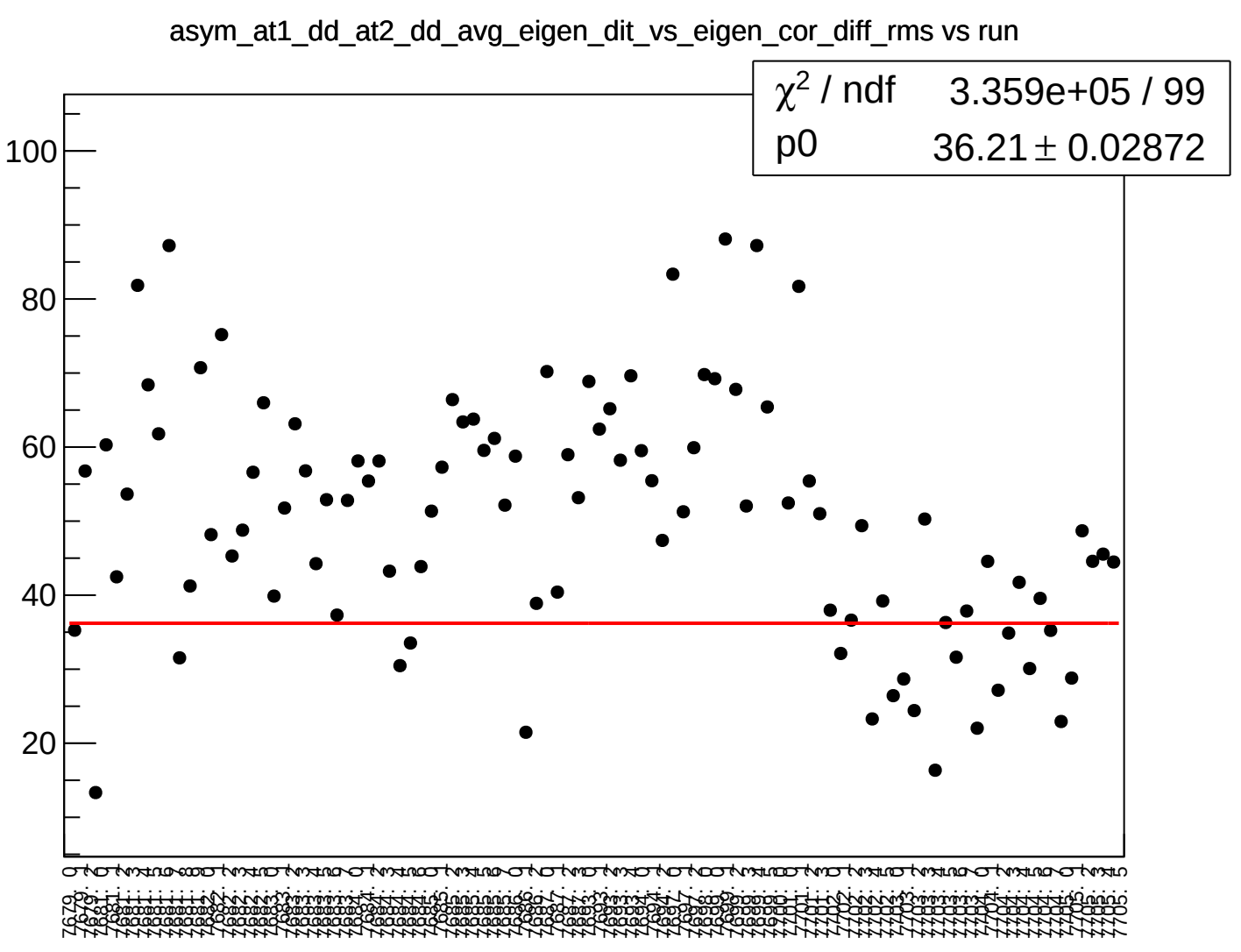

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.285e+04 / 99
p0 0.008768 ± 6.391e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006

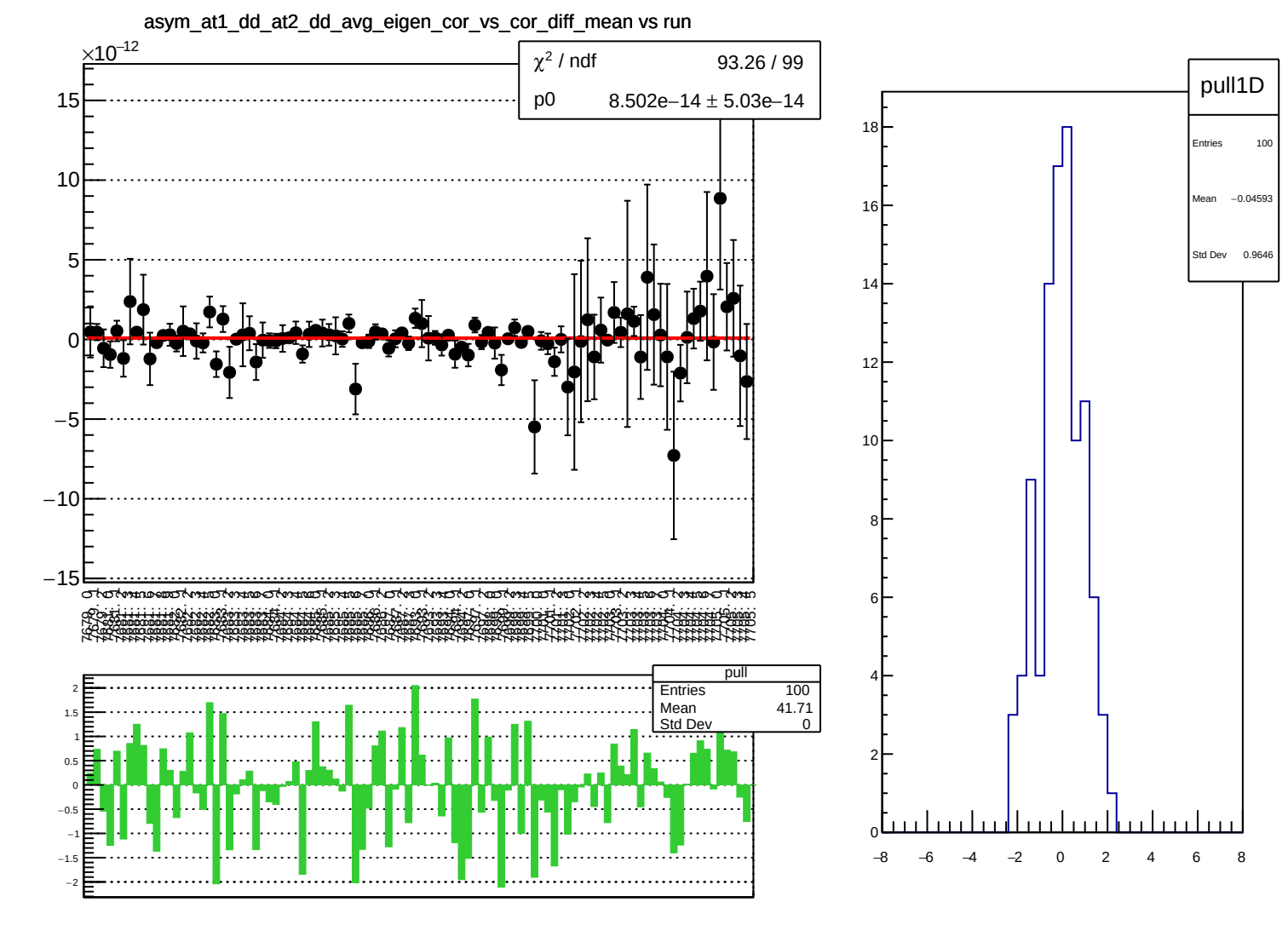

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.33 / 99
p0 −0.07413 ± 0.04062
pull
Entries 100
Mean 195.1
Std Dev 0
pull1D
Entries 100
Mean 0.01333
Std Dev 0.9344

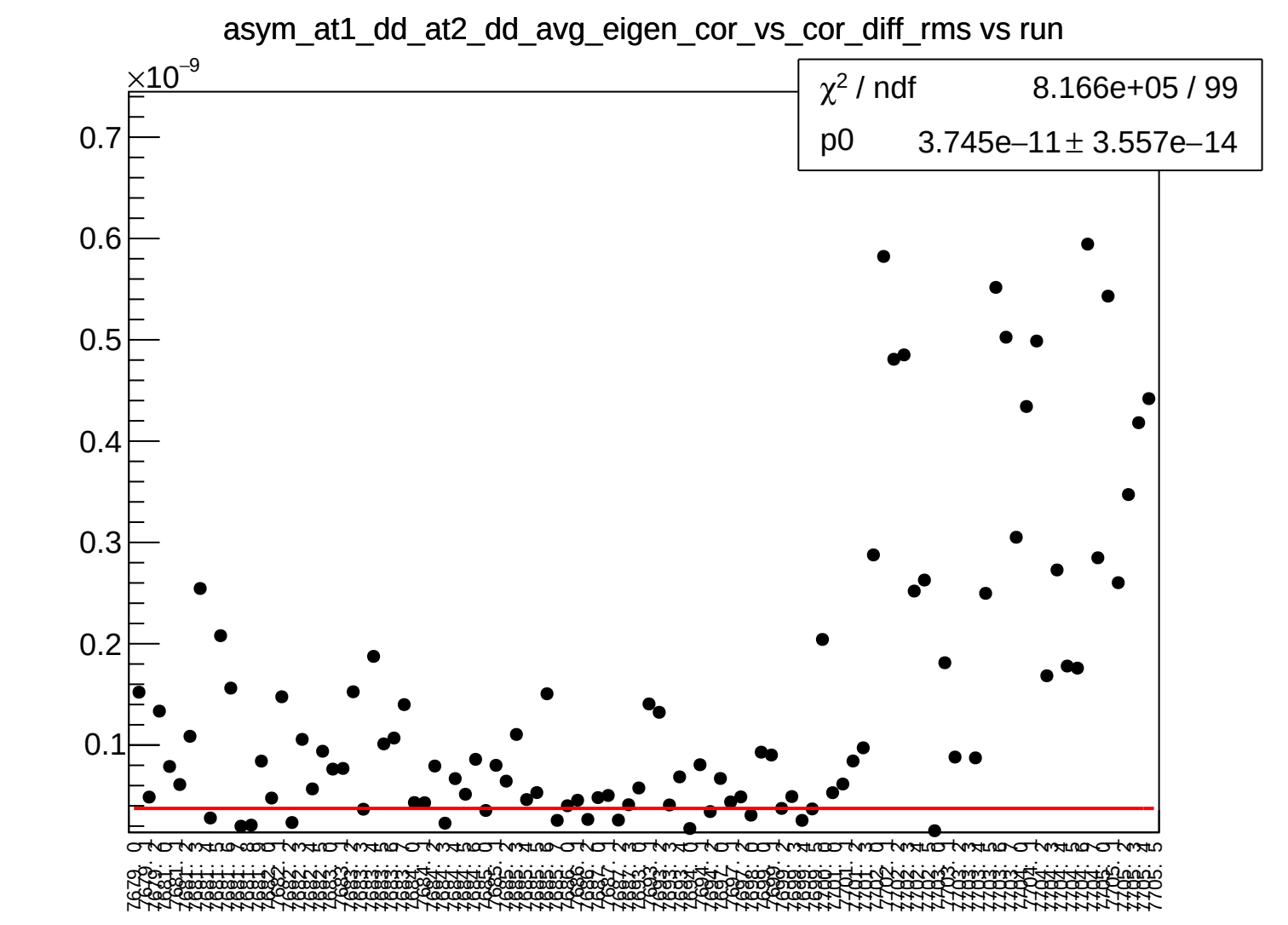

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.359e+05 / 99
p0 36.21 ± 0.02872
100
80
60
40
20

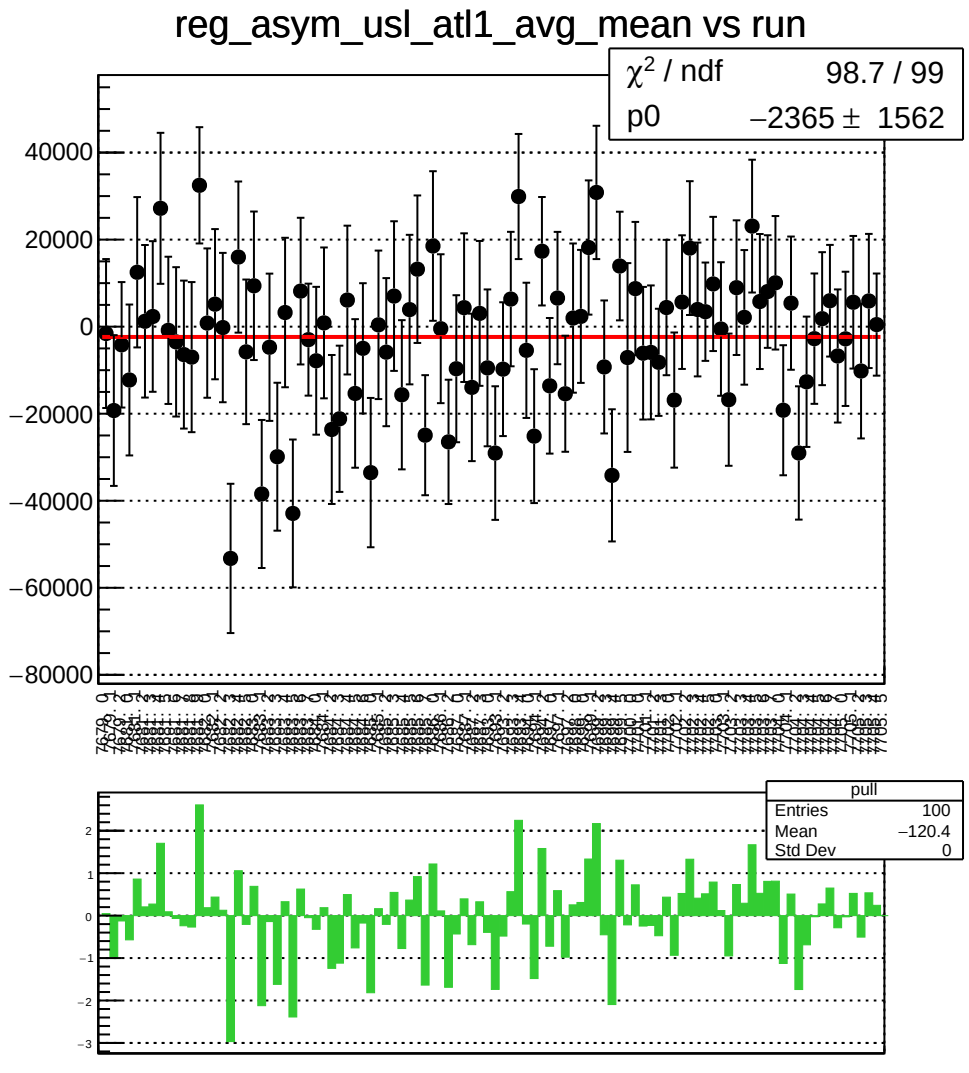

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.33 / 99
p0 −0.07413 ± 0.04062
pull
Entries 100
Mean 195.1
Std Dev 0

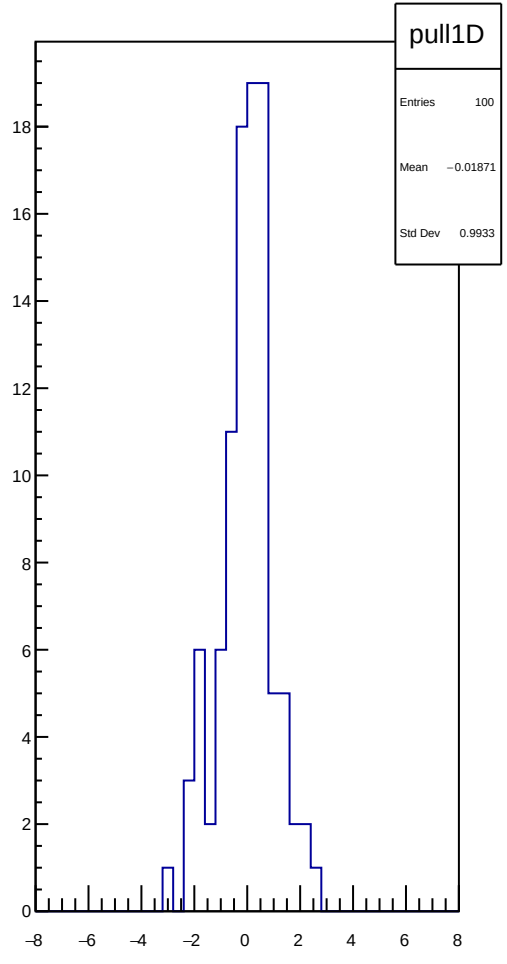

pull1D
Entries 100
Mean 0.01333
Std Dev 0.9344

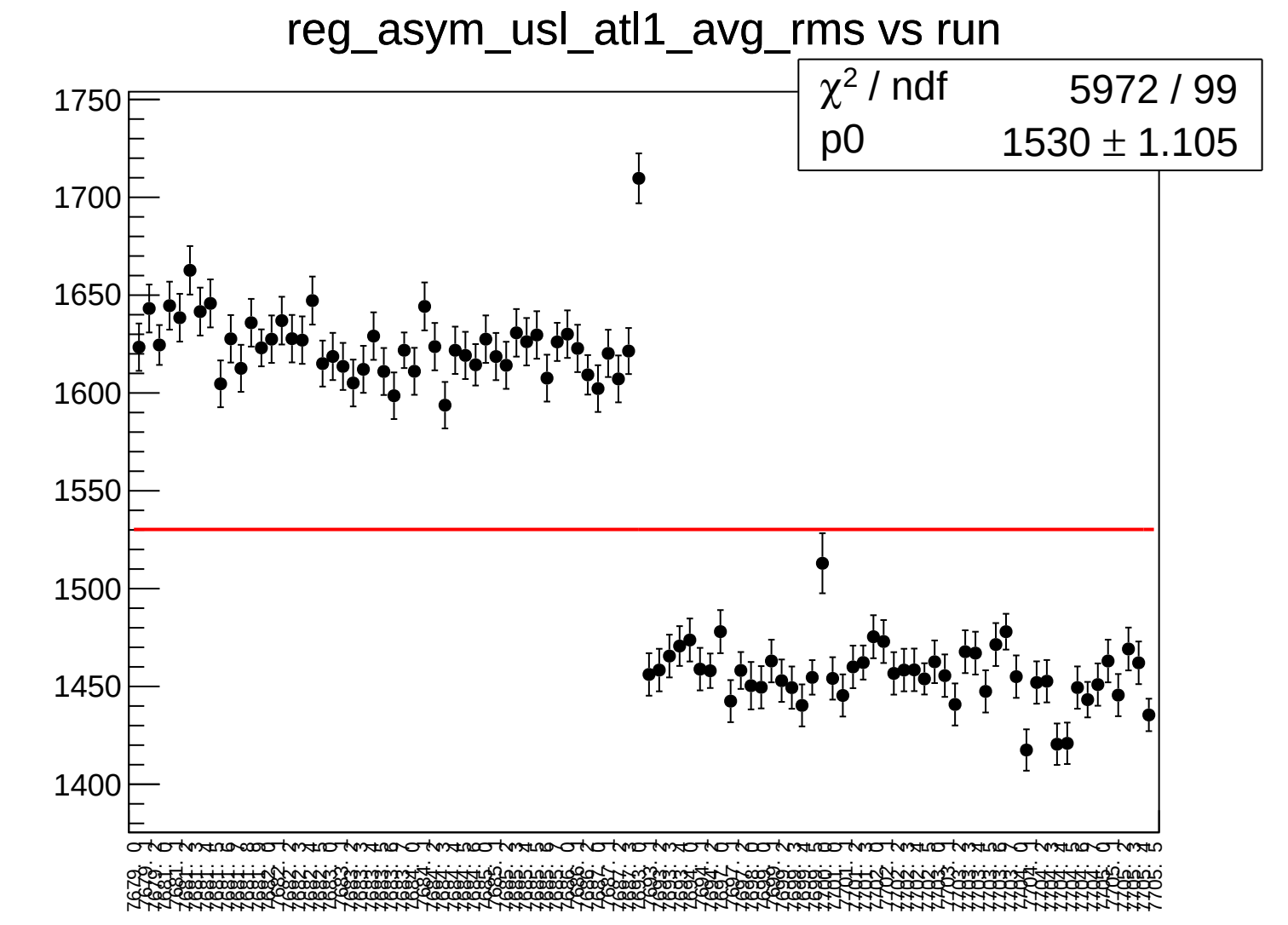

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.359e+05 / 99
p0 36.21 ± 0.02872
100
80
60
40
20

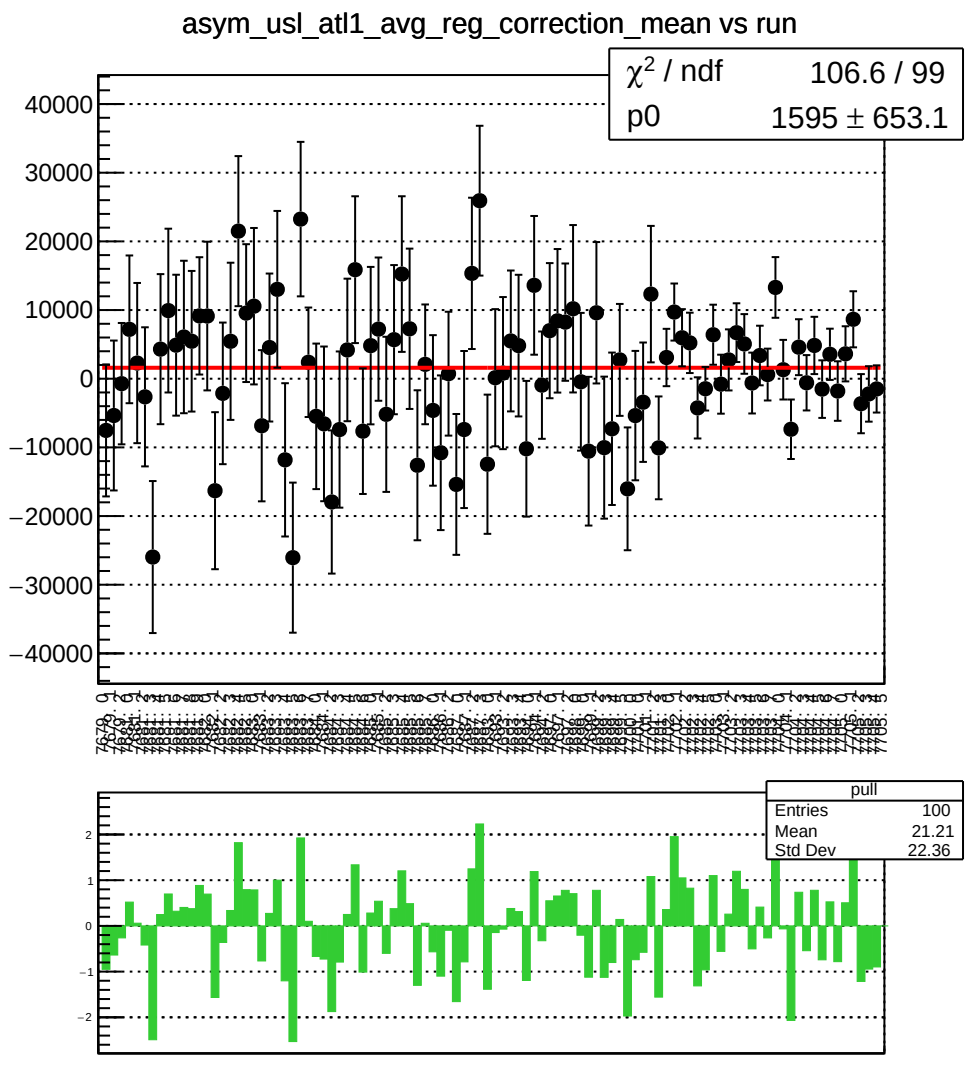

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.26 / 99
p0 8.502e−14 ± 5.03e−14
pull
Entries 100
Mean 41.71
Std Dev 0
pull1D
Entries 100
Mean −0.04593
Std Dev 0.9646

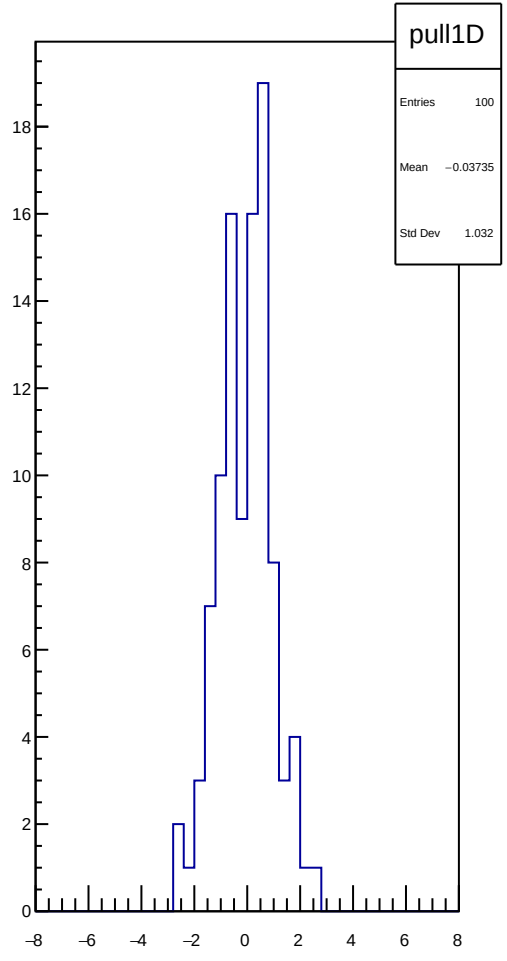

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.166e+05 / 99
p0 3.745e−11 ± 3.557e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

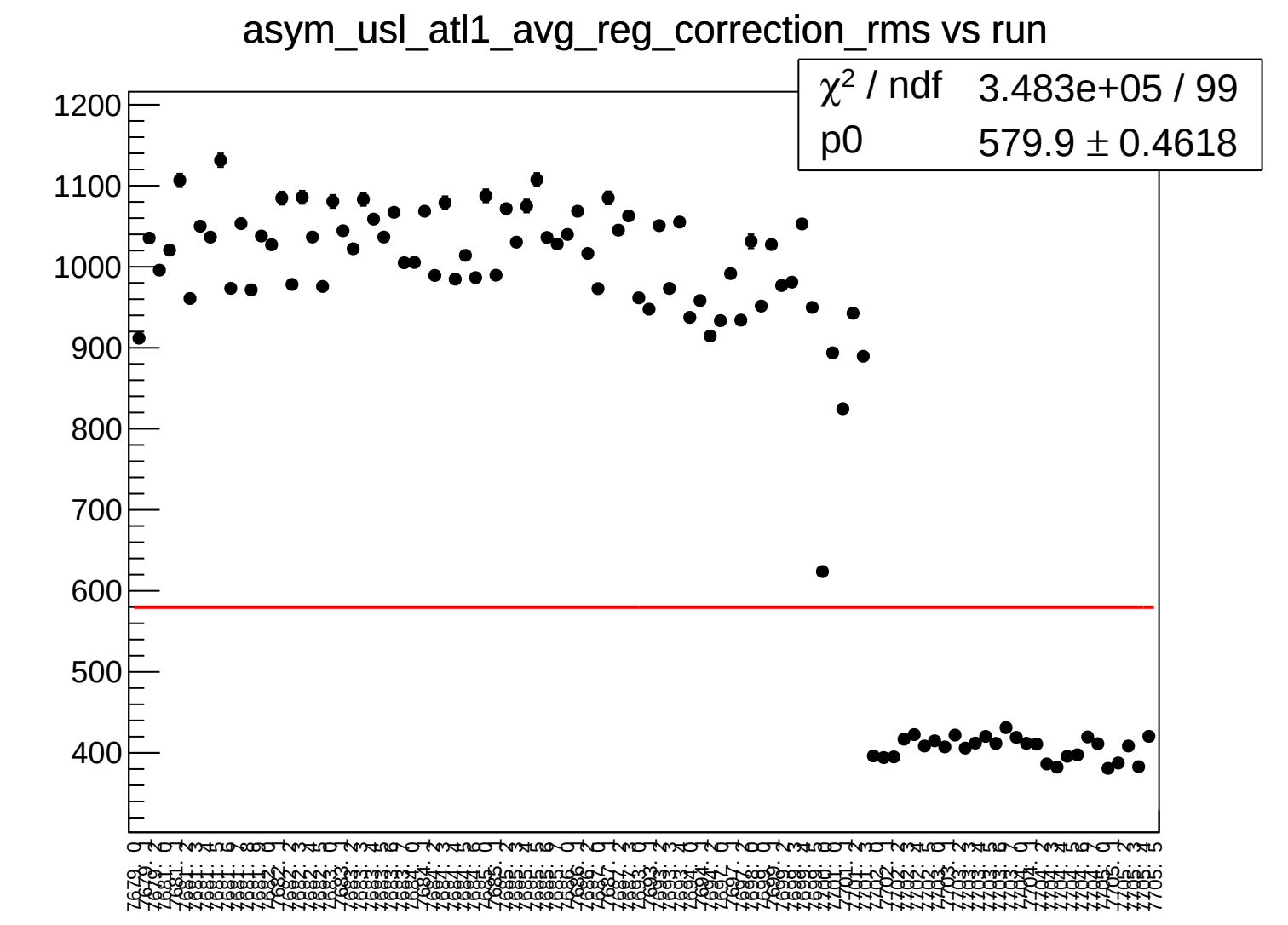

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 98.7 / 99
p0 −2365 ± 1562
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −120.4
Std Dev 0
2
1
0
−1
−2
−3

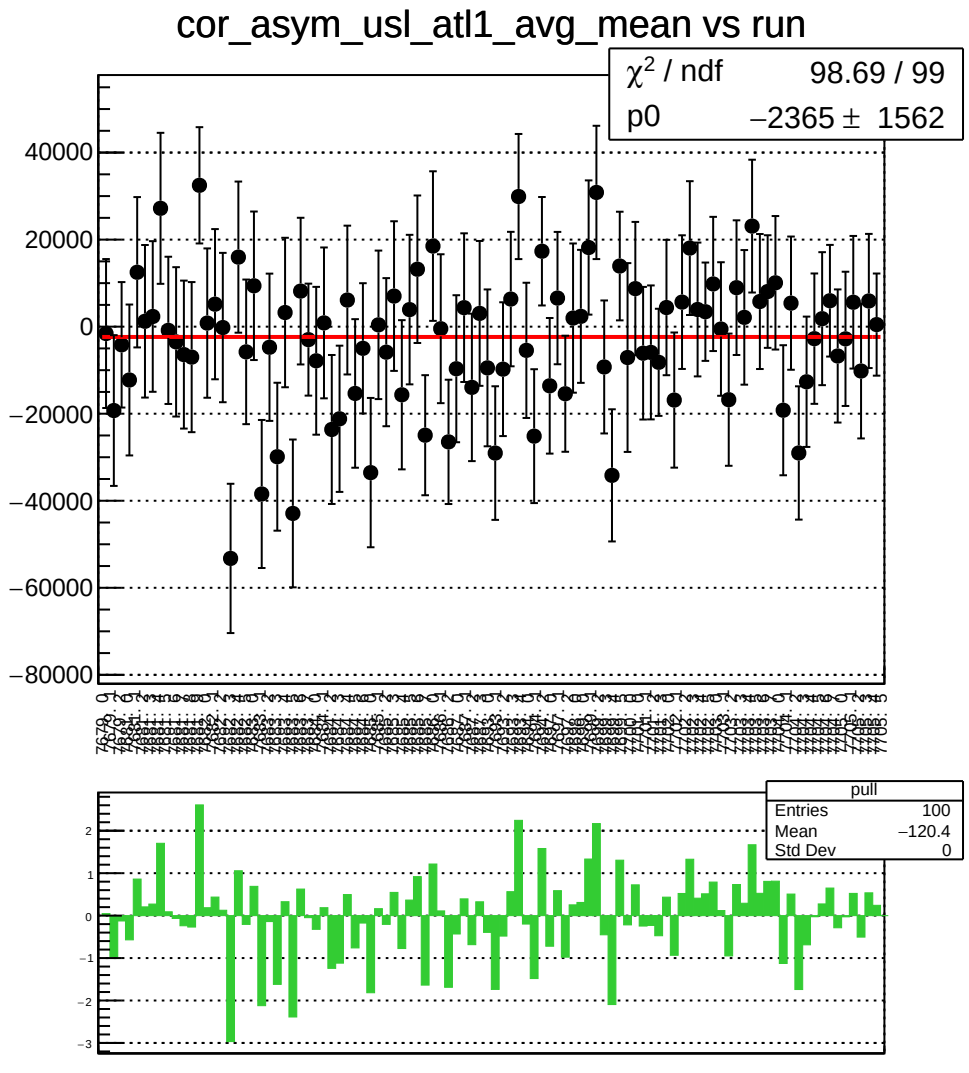

pull1D
Entries 100
Mean −0.01871
Std Dev 0.9933
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

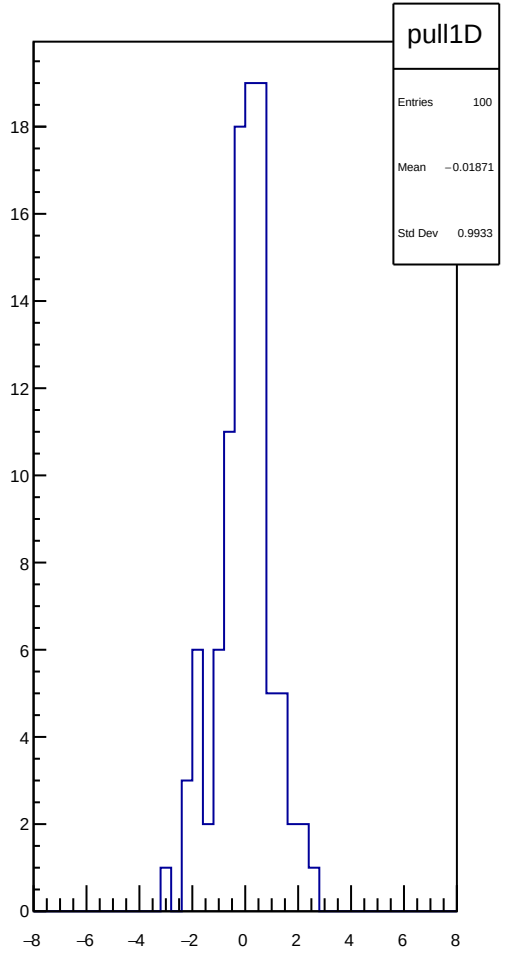

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 5972 / 99
p0 1530 ± 1.105
1750
1700
1650
1600
1550
1500
1450
1400

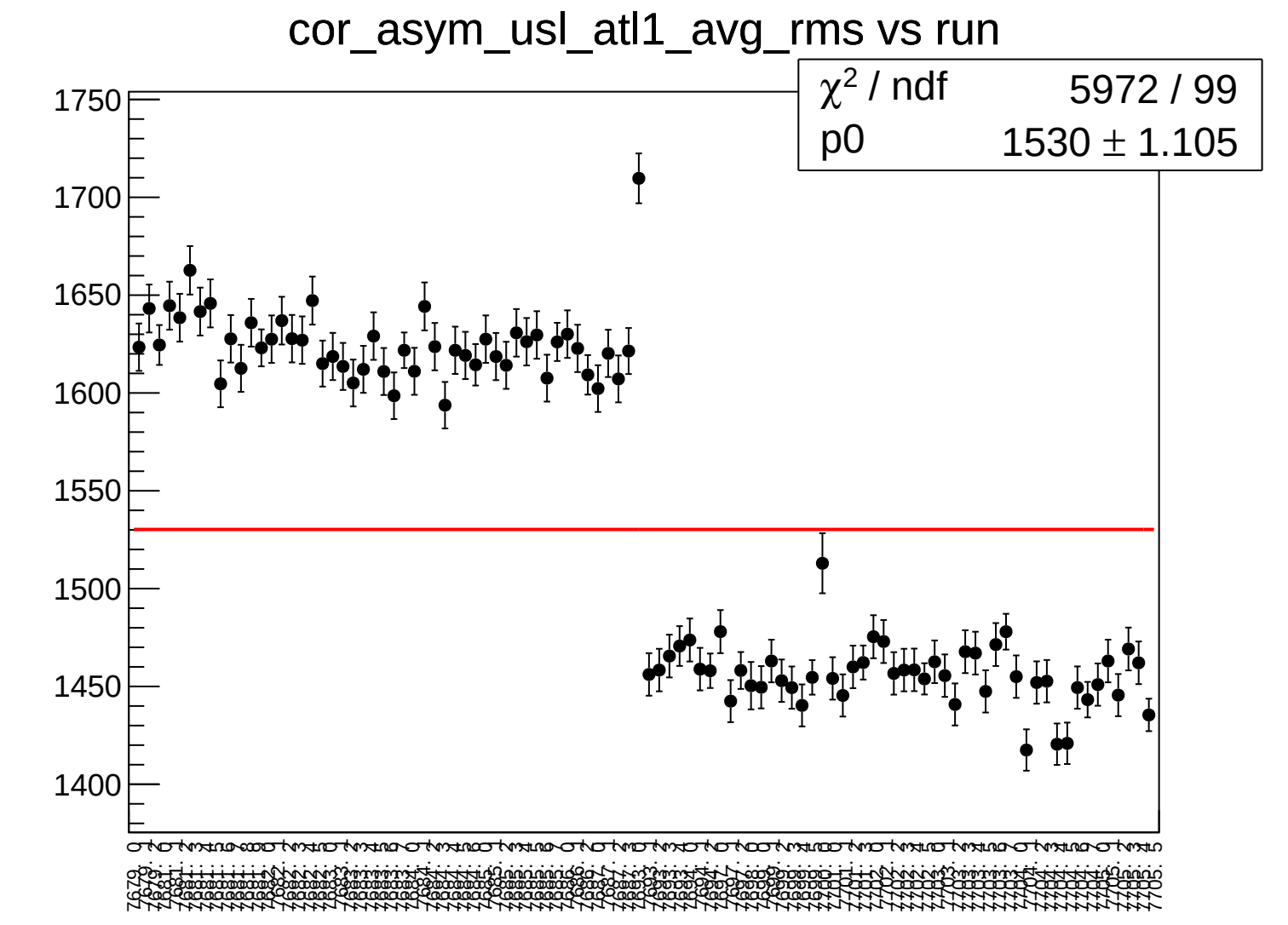

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 106.6 / 99
p0 1595 ± 653.1
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 100
Mean 21.21
Std Dev 22.36
2
1
0
−1
−2

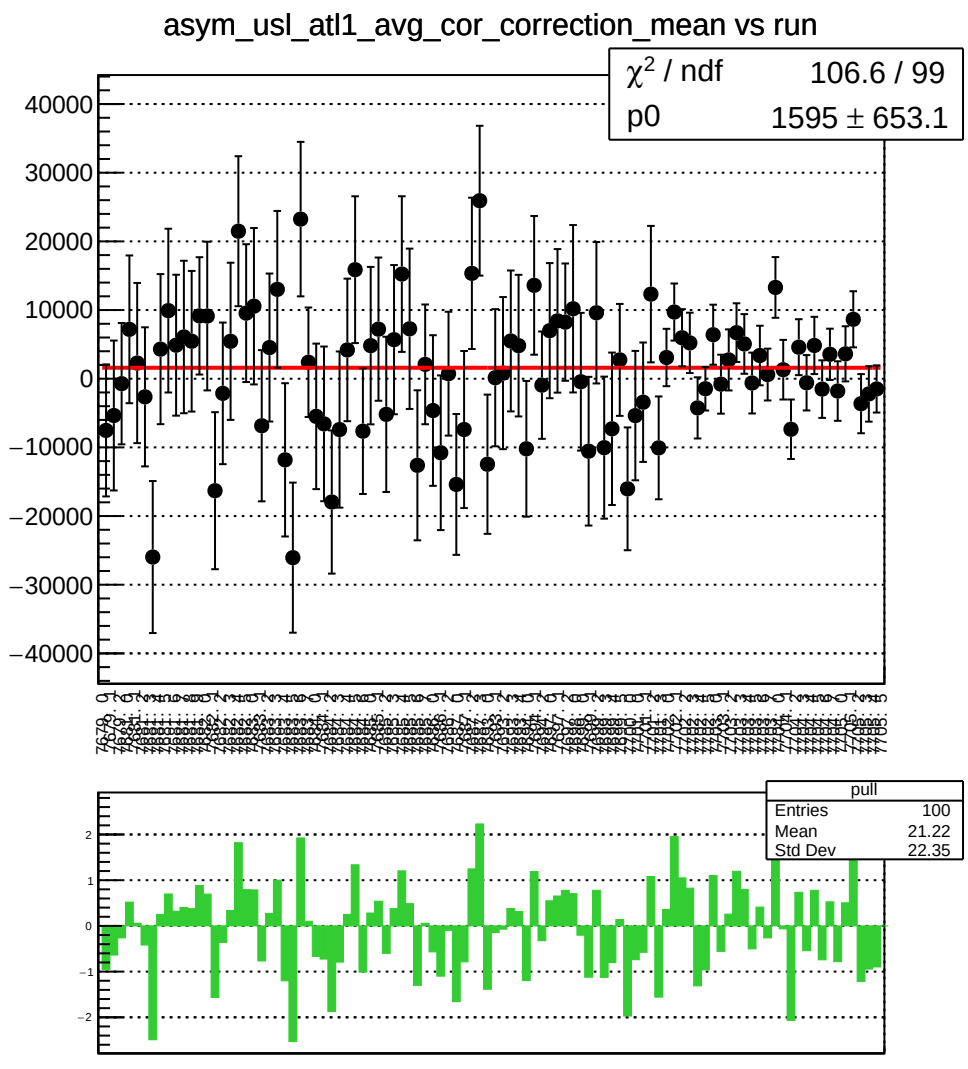

pull1D
Entries 100
Mean −0.03735
Std Dev 1.032
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

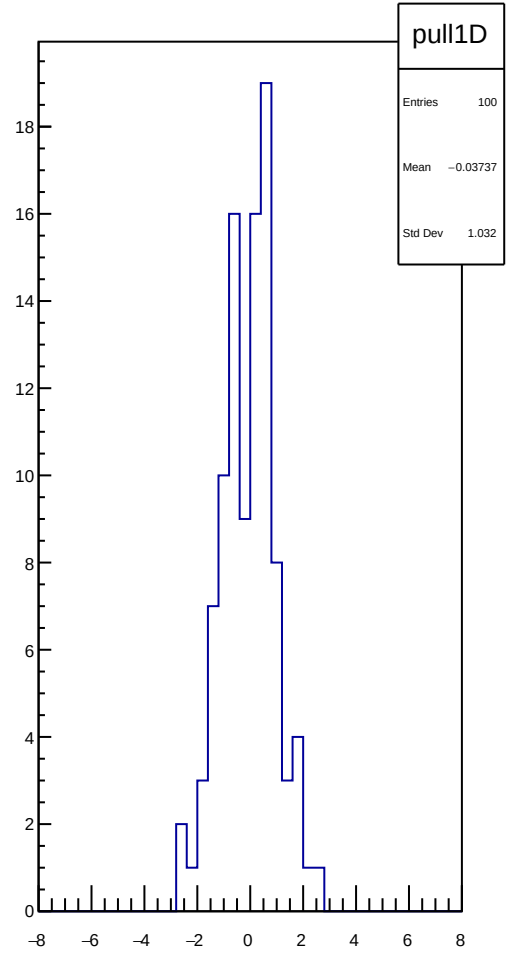

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 3.483e+05 / 99
p0 579.9 ± 0.4618
1200
1100
1000
900
800
700
600
500
400

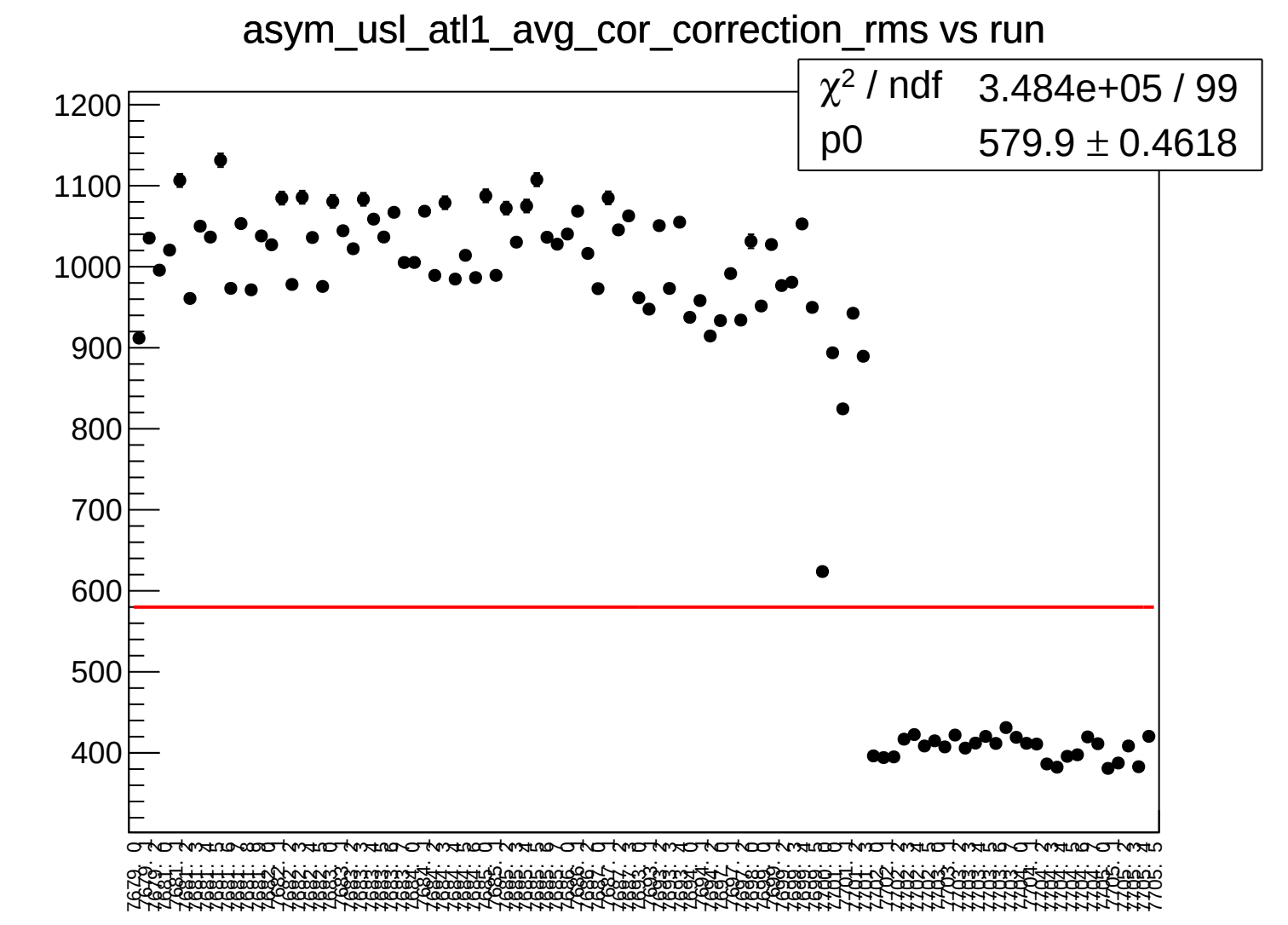

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 98.69 / 99
p0 −2365 ± 1562
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −120.4
Std Dev 0
2
1
0
−1
−2
−3

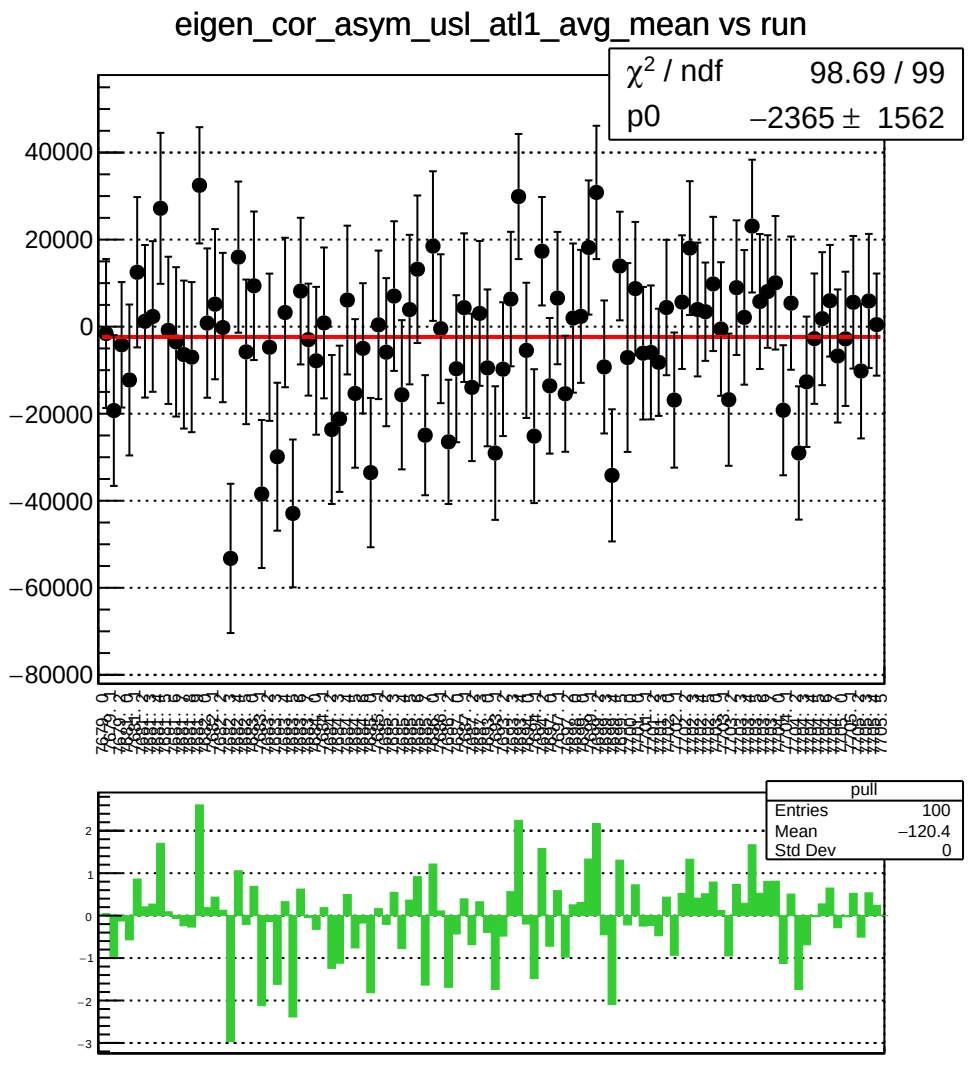

pull1D
Entries 100
Mean −0.01871
Std Dev 0.9933
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

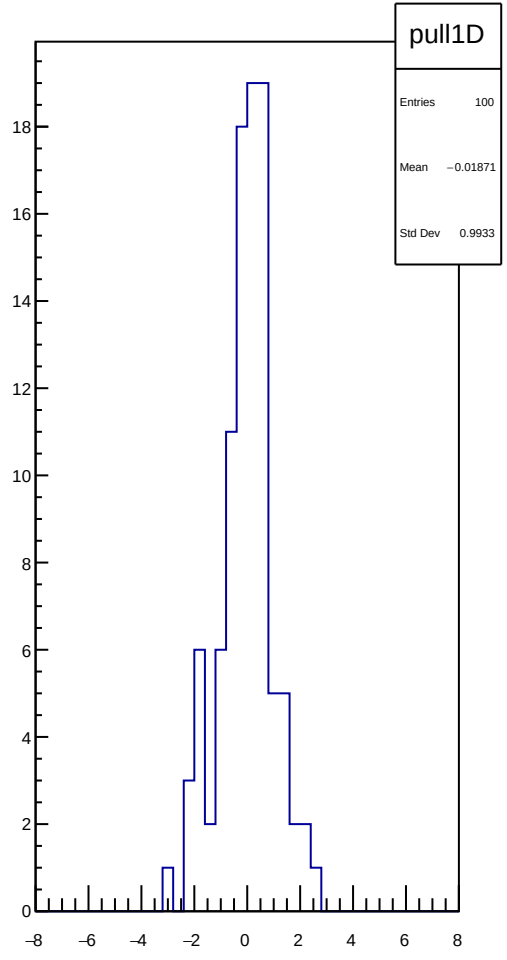

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 5972 / 99
p0 1530 ± 1.105
1750
1700
1650
1600
1550
1500
1450
1400

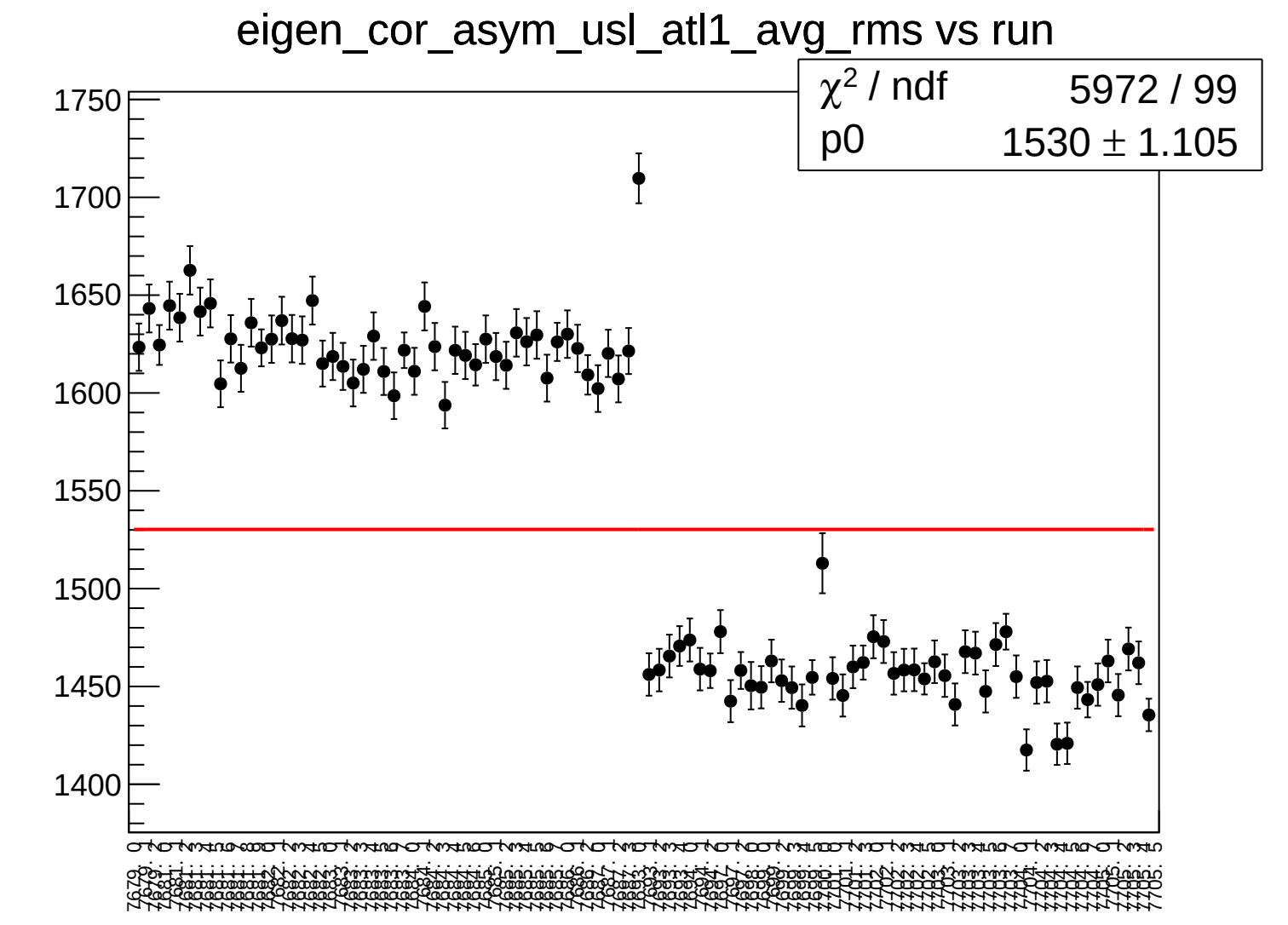

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 106.6 / 99
p0 1595 ± 653.1
pull
Entries 100
Mean 21.22
Std Dev 22.35

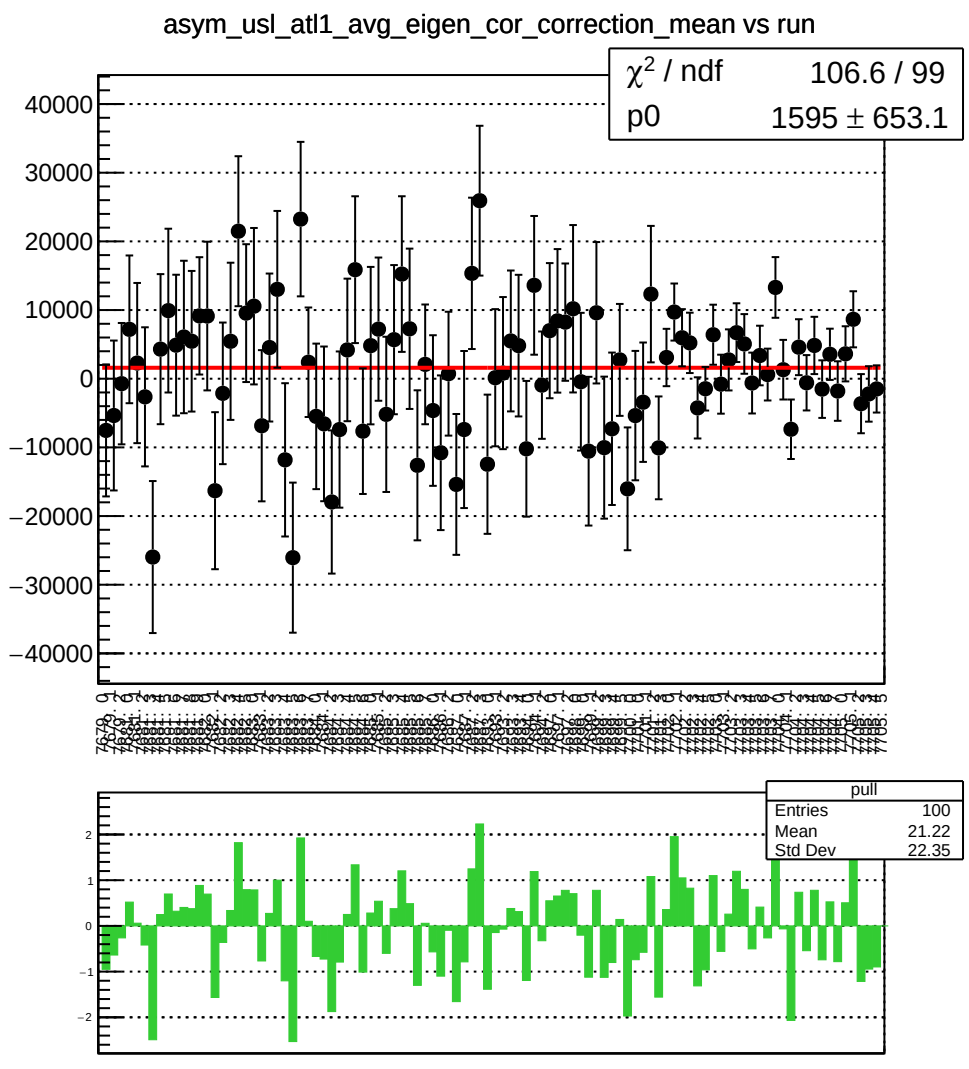

pull1D
Entries 100
Mean −0.03737
Std Dev 1.032

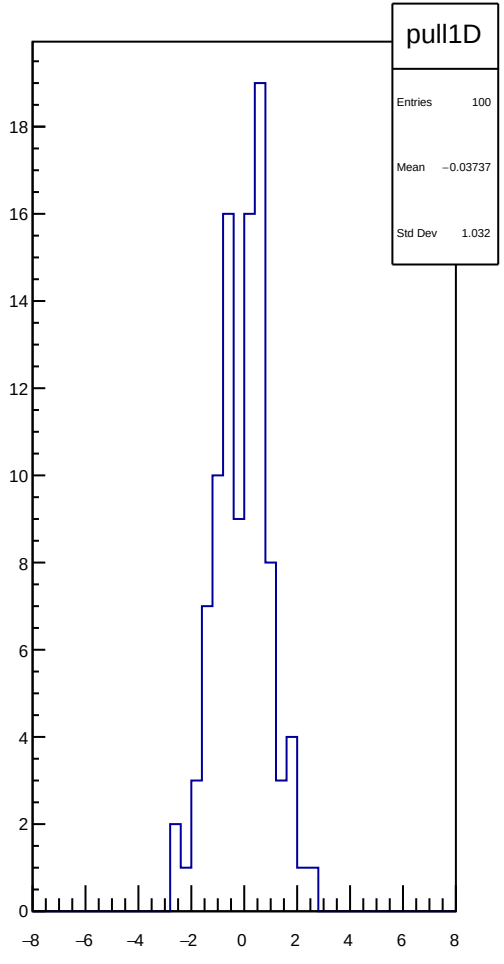

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 3.484e+05 / 99
p0 579.9 ± 0.4618
1200
1100
1000
900
800
700
600
500
400

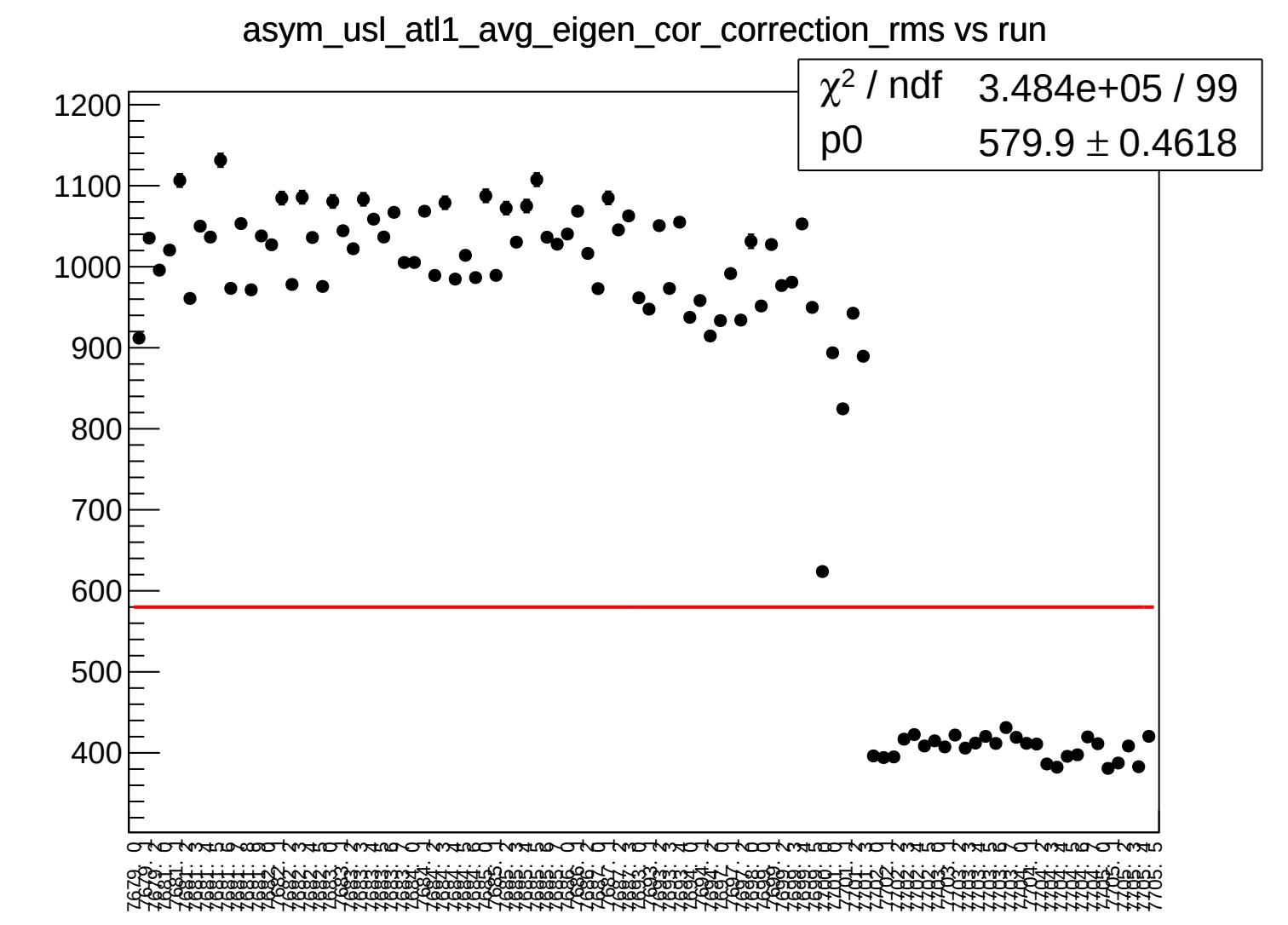

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 98.69 / 99
p0 −2365 ± 1562
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −120.4
Std Dev 0
2
1
0
−1
−2
−3

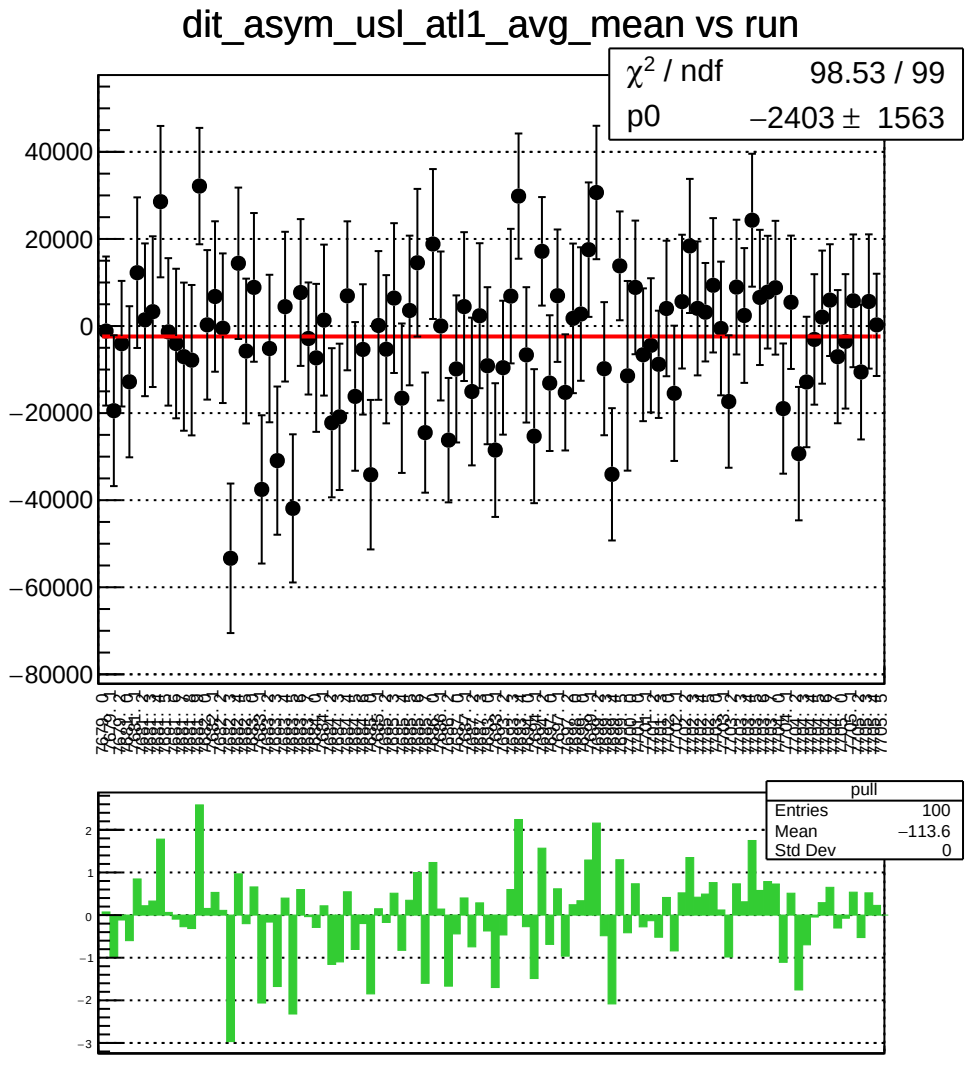

pull1D
Entries 100
Mean −0.01871
Std Dev 0.9933
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

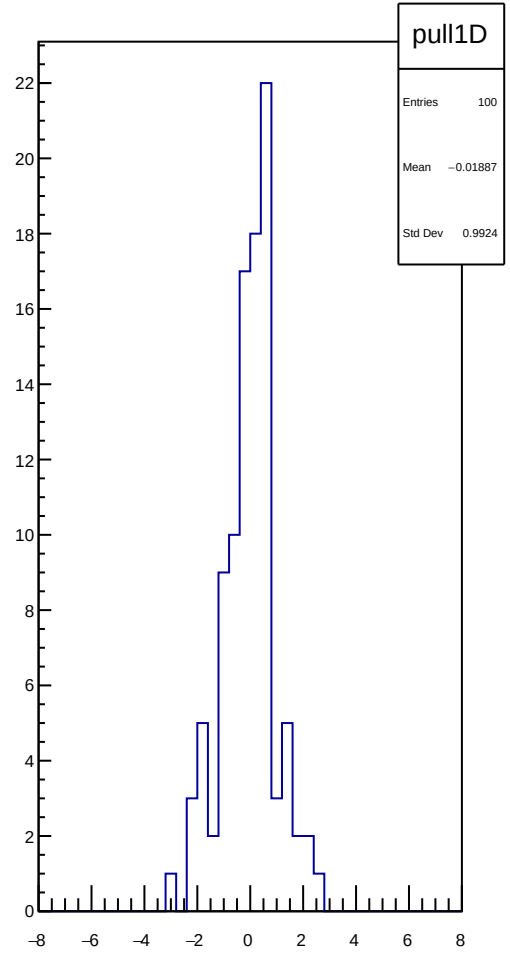

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 5972 / 99
p0 1530 ± 1.105
1750
1700
1650
1600
1550
1500
1450
1400

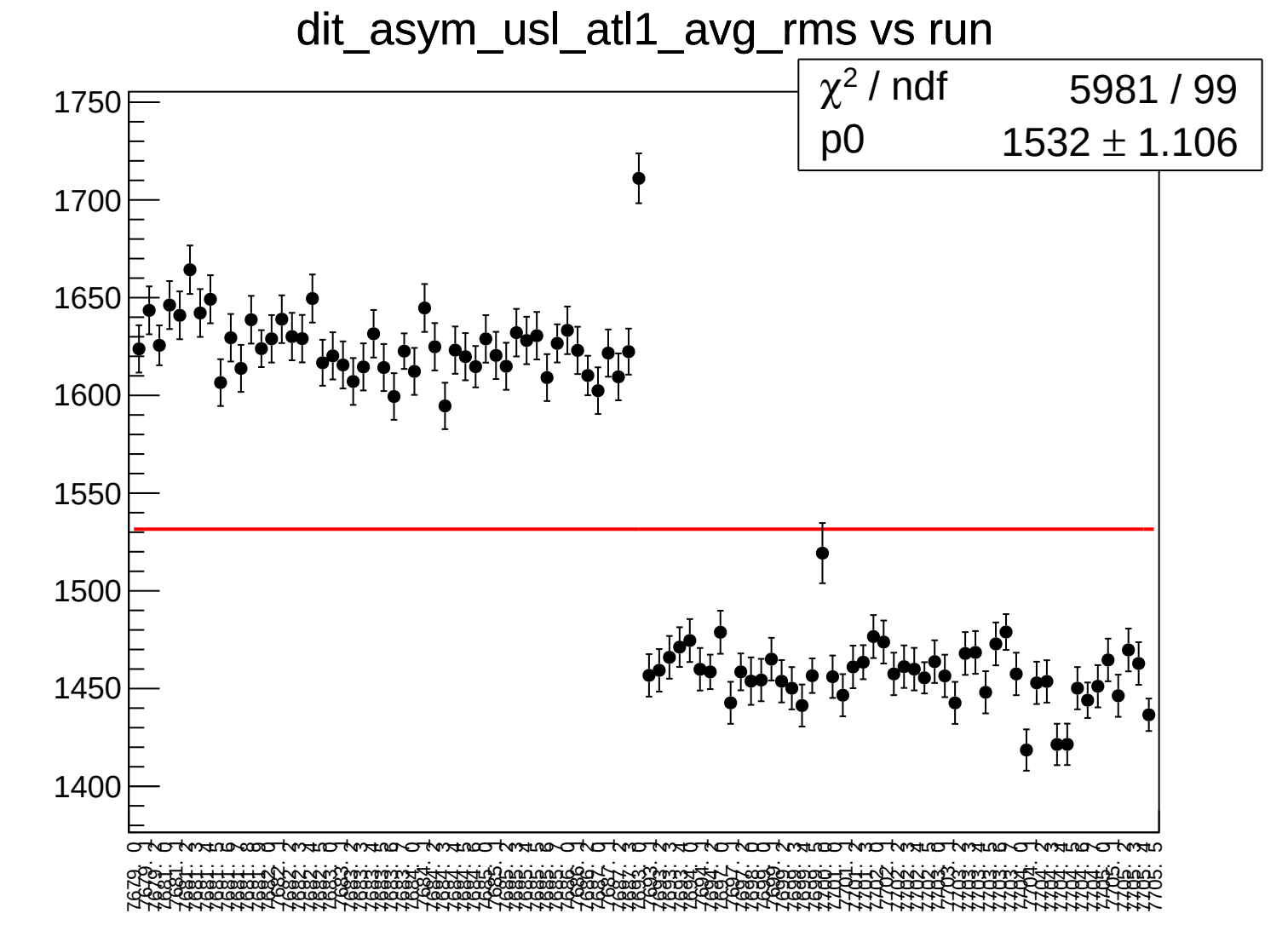

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 106.6 / 99
p0 1595 ± 653.1
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 100
Mean 21.22
Std Dev 22.35
2
1
0
−1
−2

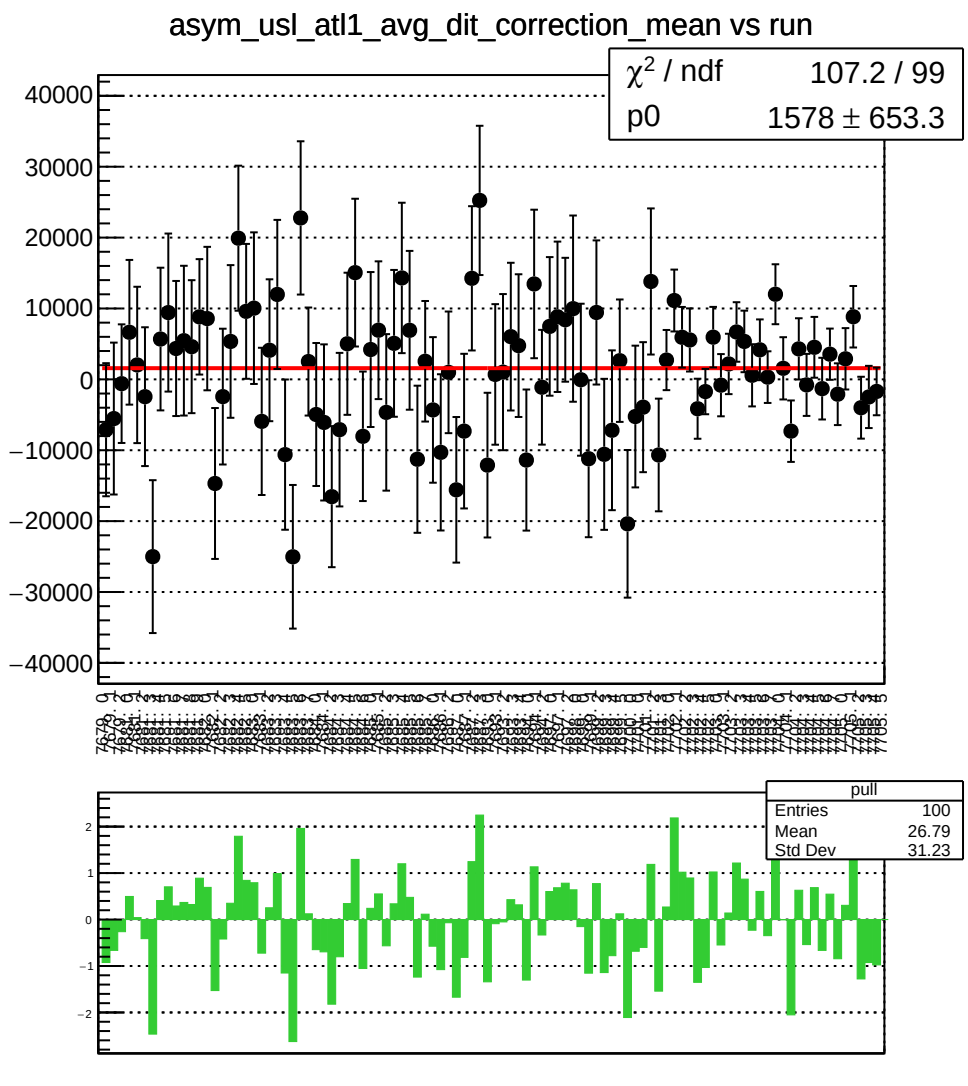

pull1D
Entries 100
Mean −0.03737
Std Dev 1.032
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

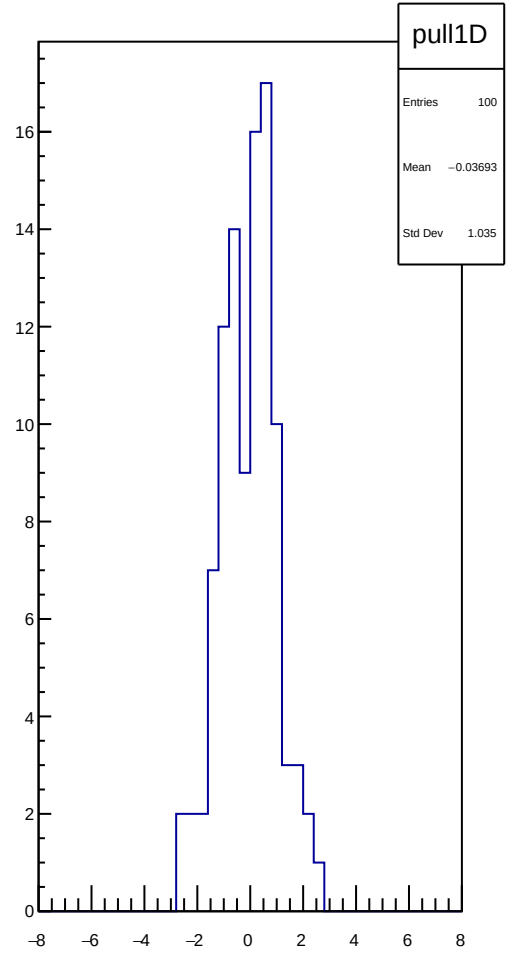

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.484e+05 / 99
p0 579.9 ± 0.4618
1200
1100
1000
900
800
700
600
500
400

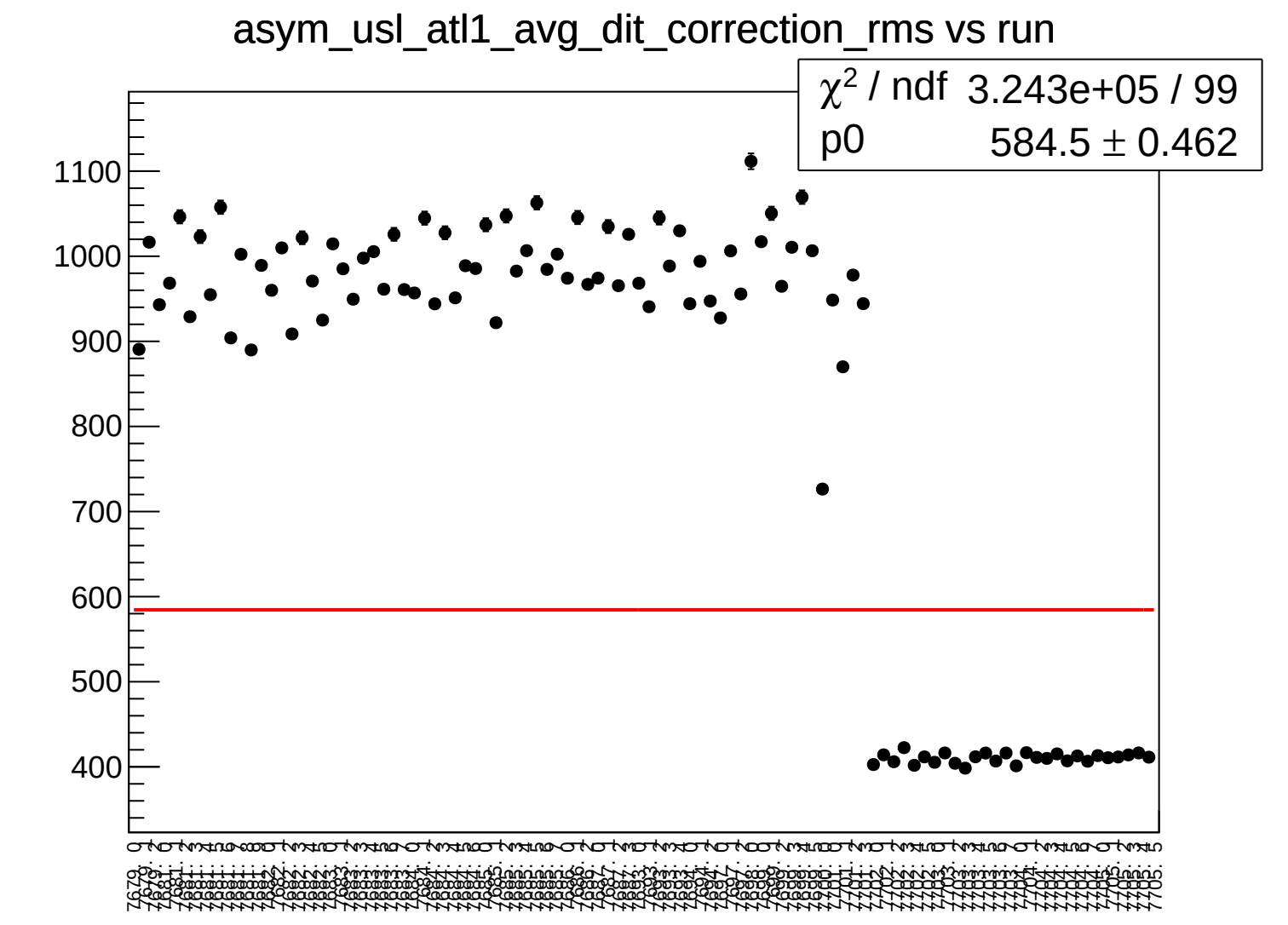

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 98.53 / 99
p0 −2403 ± 1563
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −113.6
Std Dev 0
2
1
0
−1
−2
−3

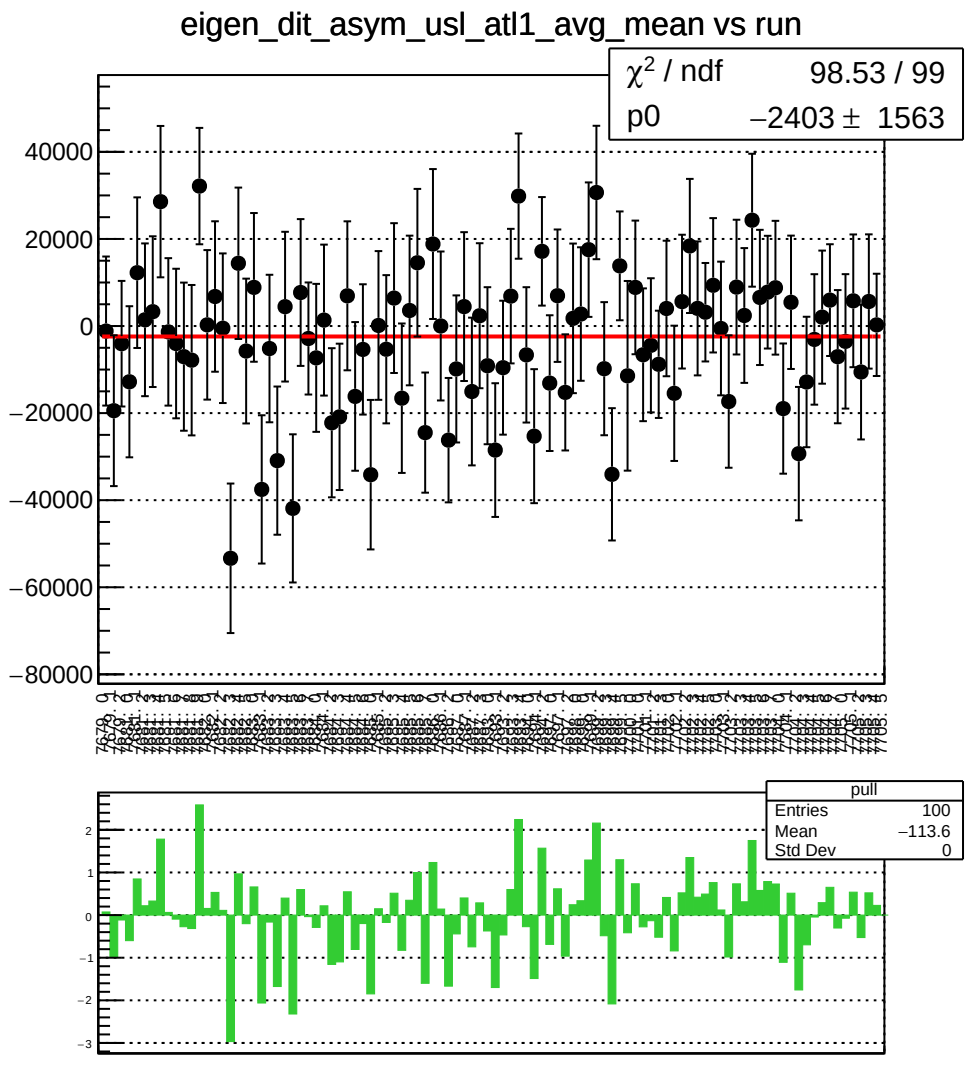

pull1D
Entries 100
Mean −0.01887
Std Dev 0.9924
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

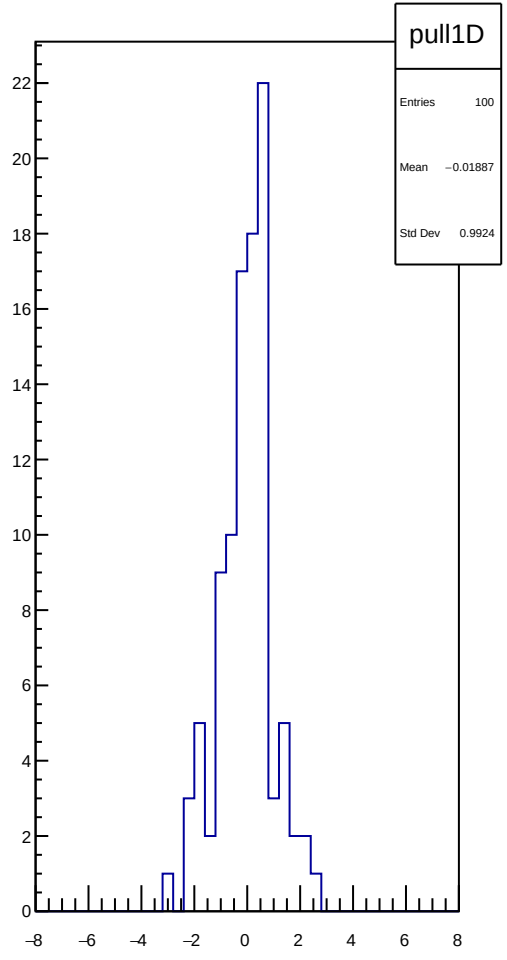

dit_asym_usl_atl1_avg_rms vs run
χ^2 / ndf 5981 / 99
p0 1532 ± 1.106
1750
1700
1650
1600
1550
1500
1450
1400

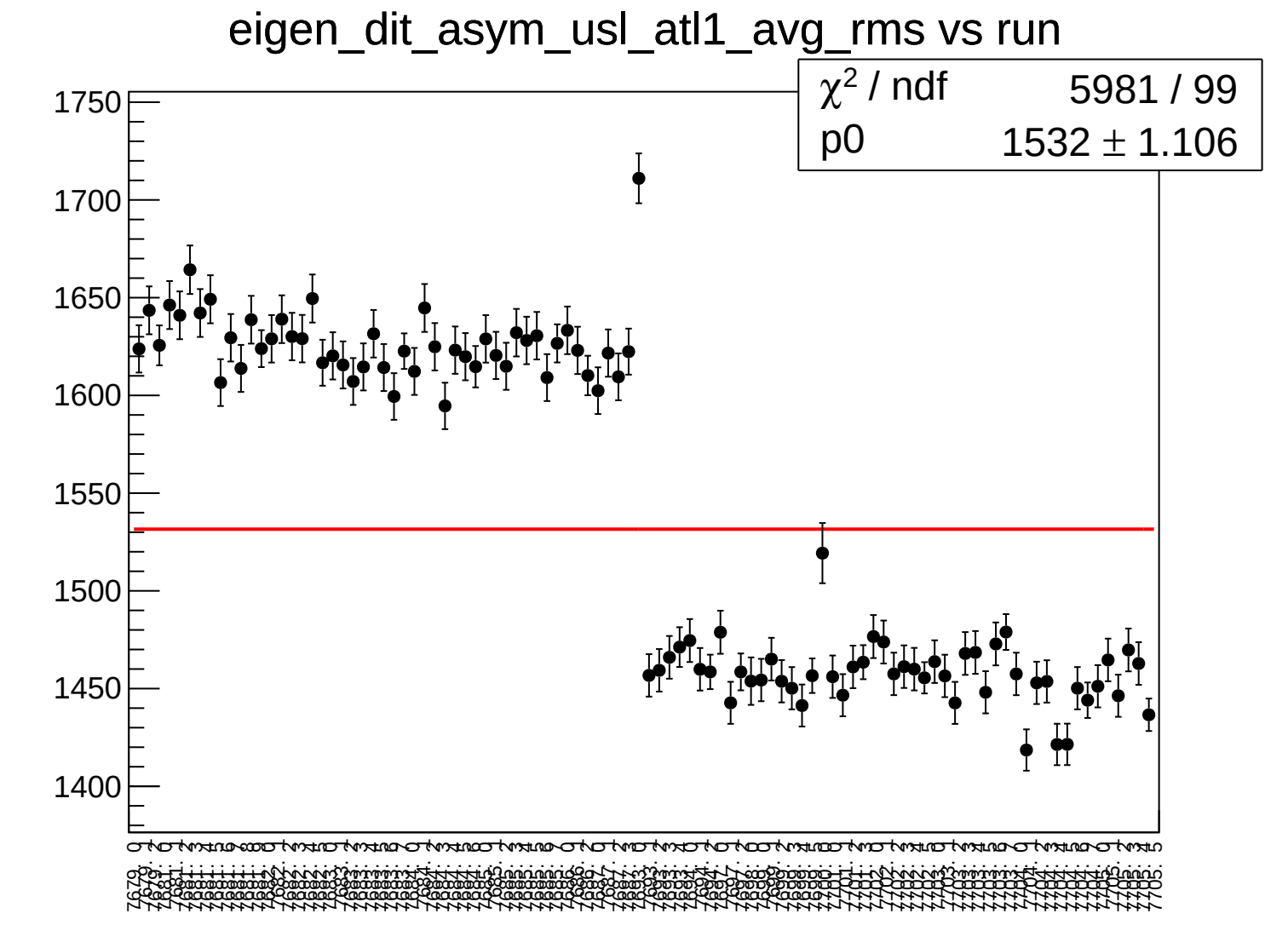

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 107.2 / 99
p0 1578 ± 653.3
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 100
Mean 26.79
Std Dev 31.23
2
1
0
−1
−2

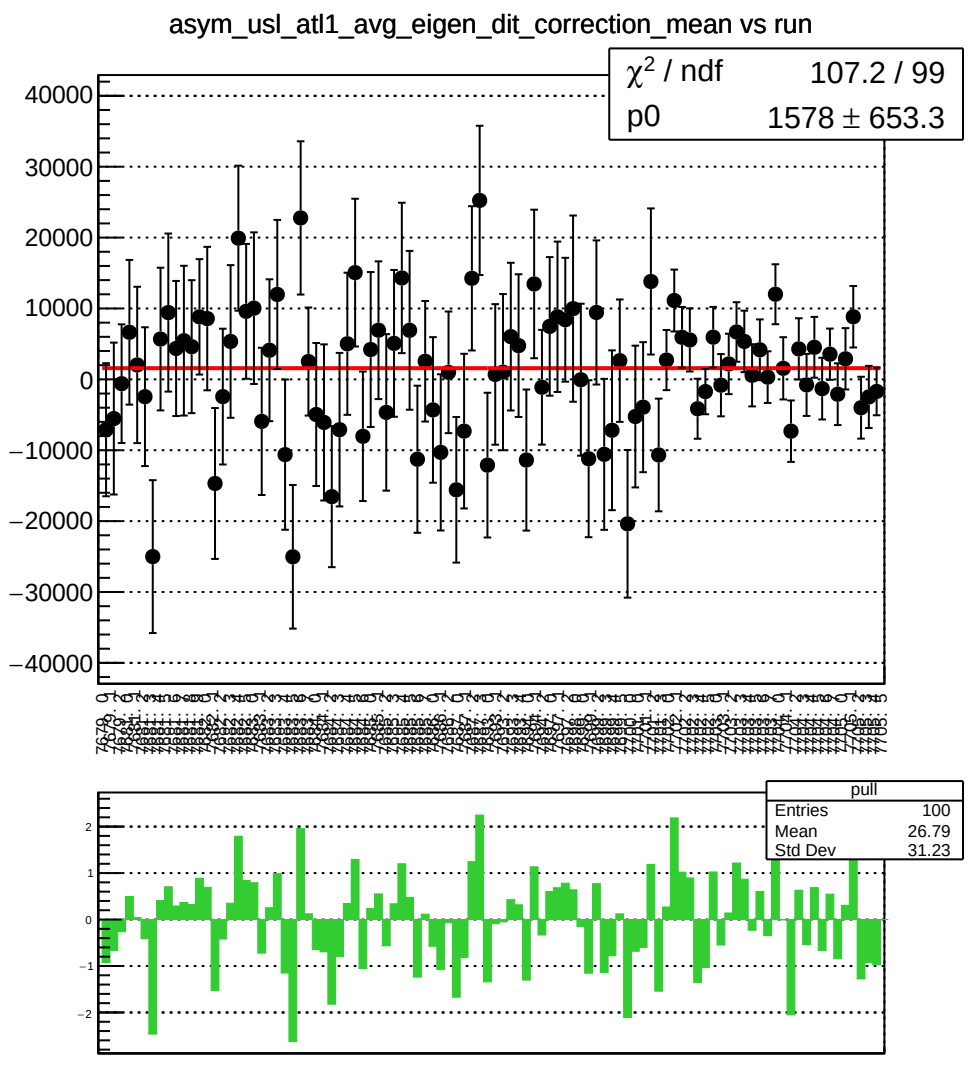

pull1D
Entries 100
Mean −0.03693
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

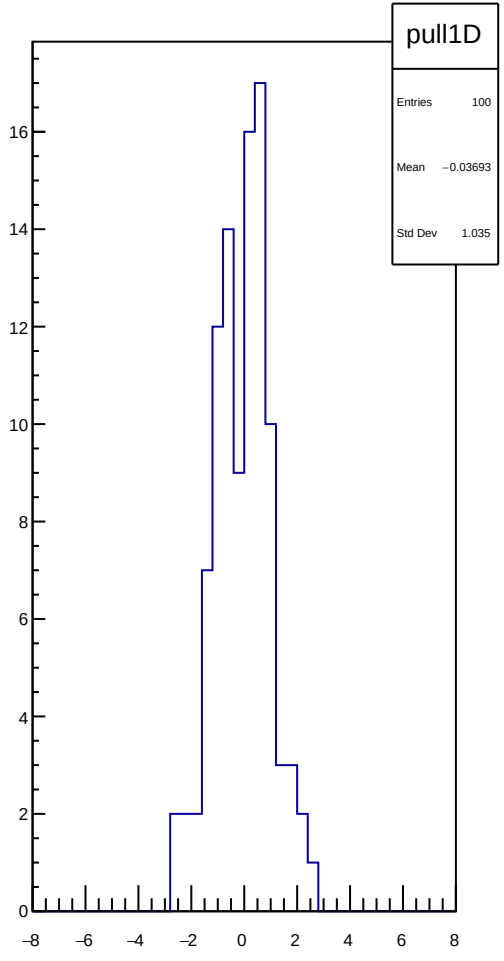

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 3.243e+05 / 99
p0 584.5 ± 0.462
1100
1000
900
800
700
600
500
400

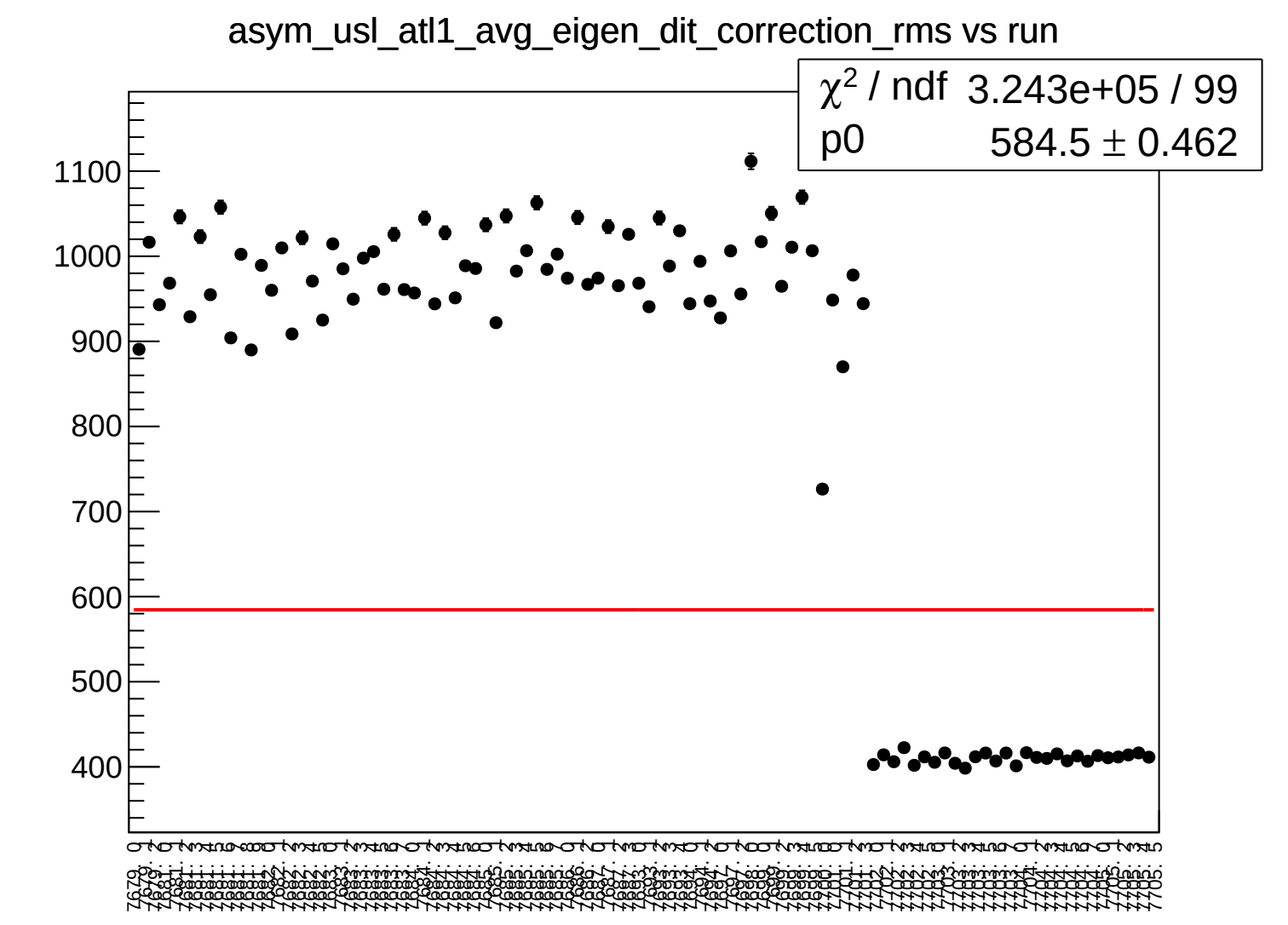

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 98.53 / 99
p0 −2403 ± 1563
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −113.6
Std Dev 0
2
1
0
−1
−2
−3

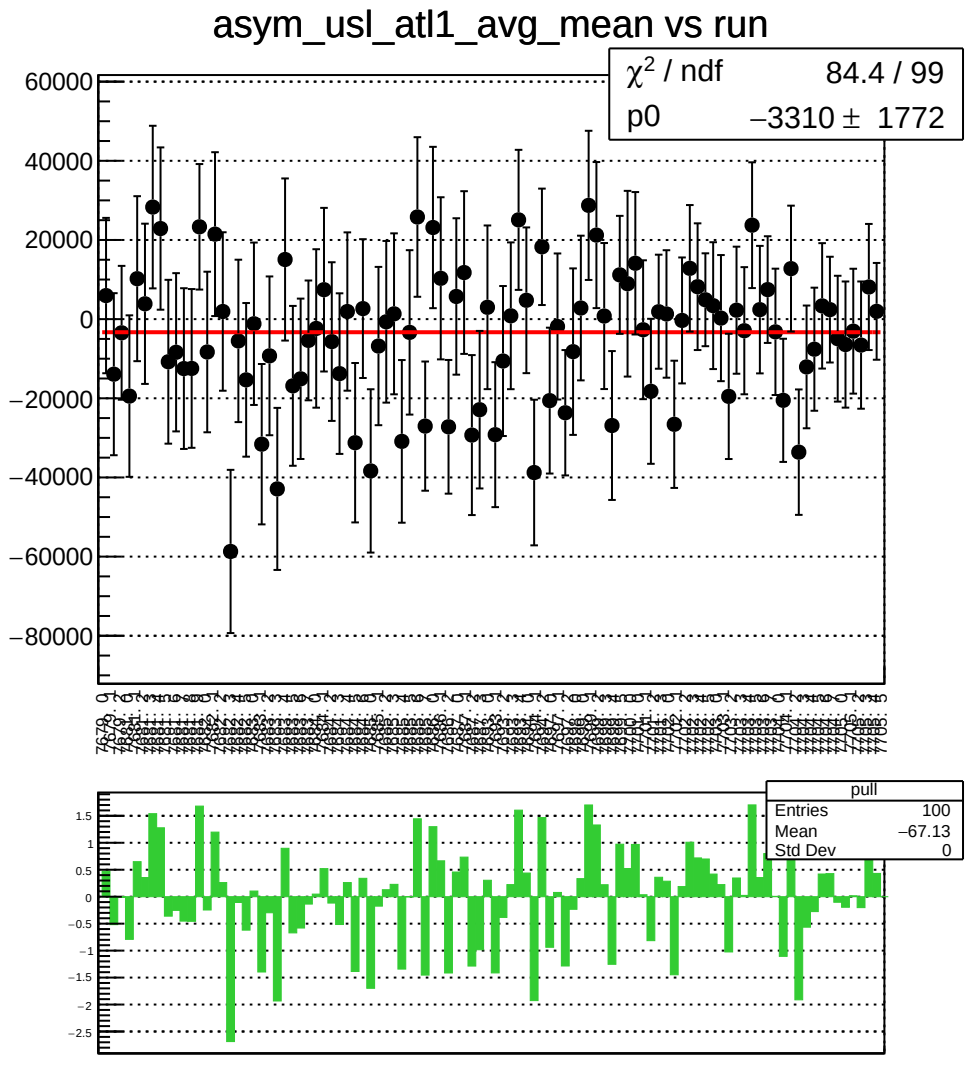

pull1D
Entries 100
Mean −0.01887
Std Dev 0.9924
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

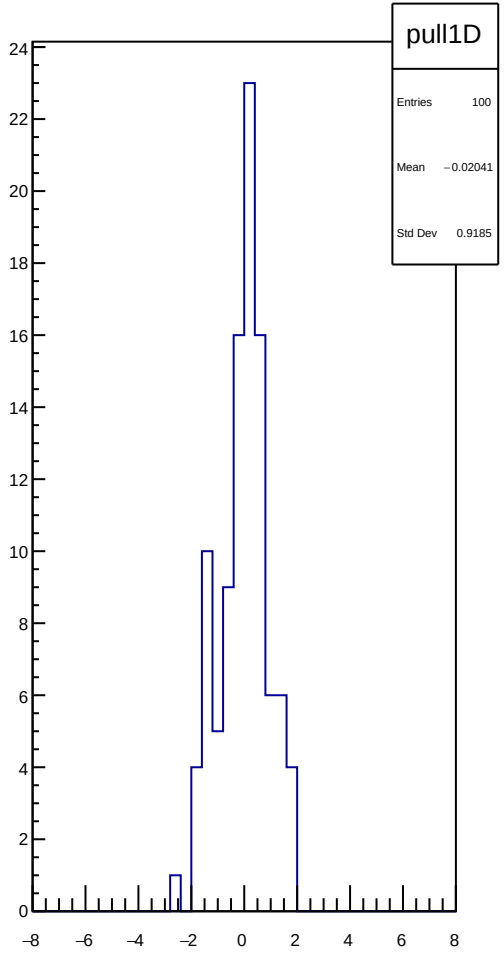

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 5981 / 99
p0 1532 ± 1.106
1750
1700
1650
1600
1550
1500
1450
1400

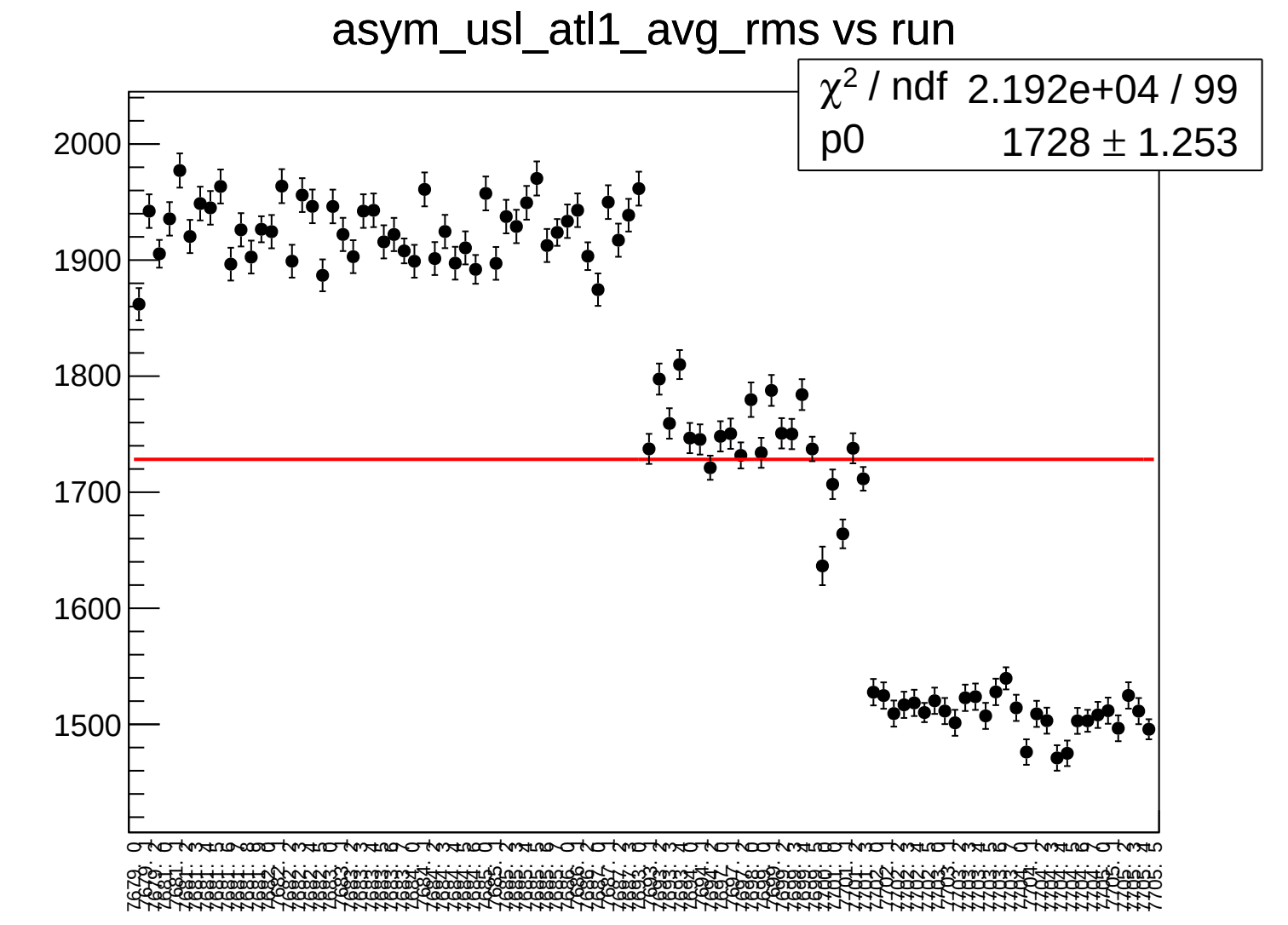

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 107.2 / 99
p0 1578 ± 653.3
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 100
Mean 26.79
Std Dev 31.23
2
1
0
−1
−2

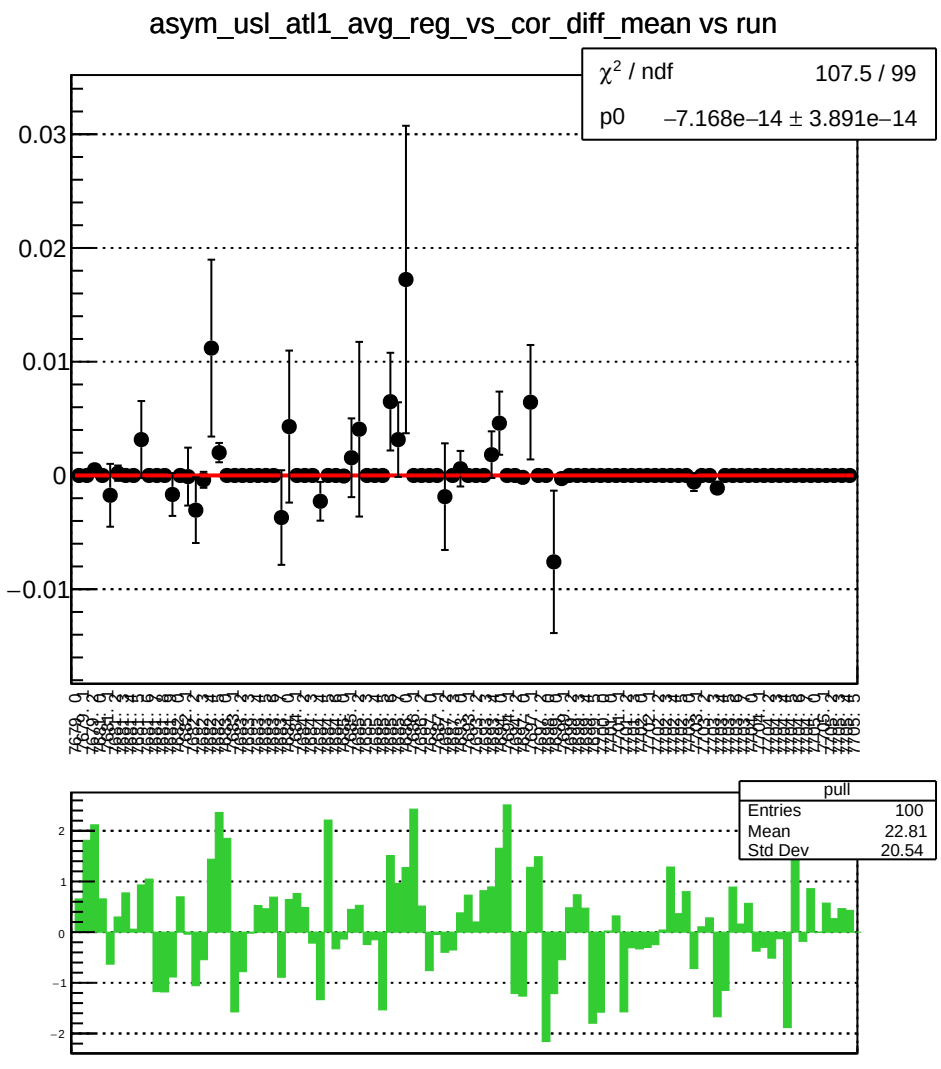

pull1D
Entries 100
Mean −0.03693
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

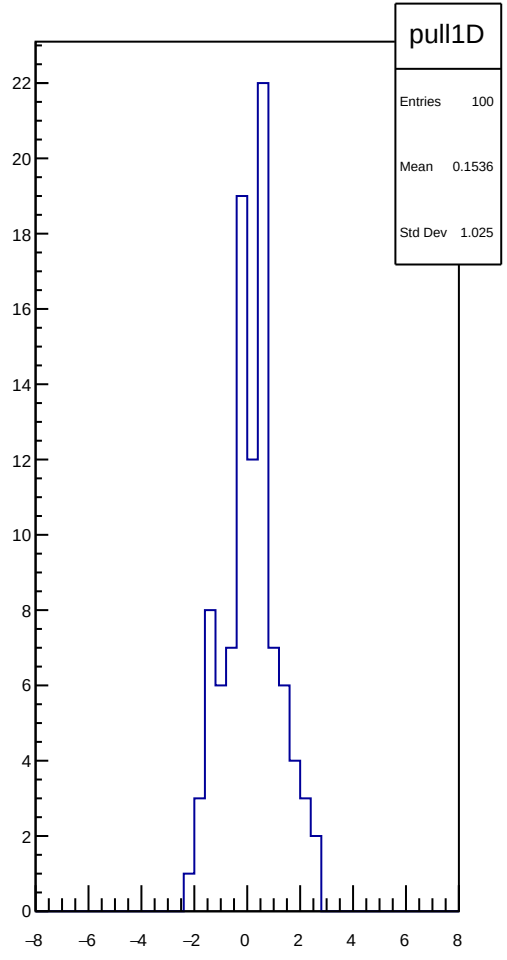

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.243e+05 / 99
p0 584.5 ± 0.462
1100
1000
900
800
700
600
500
400

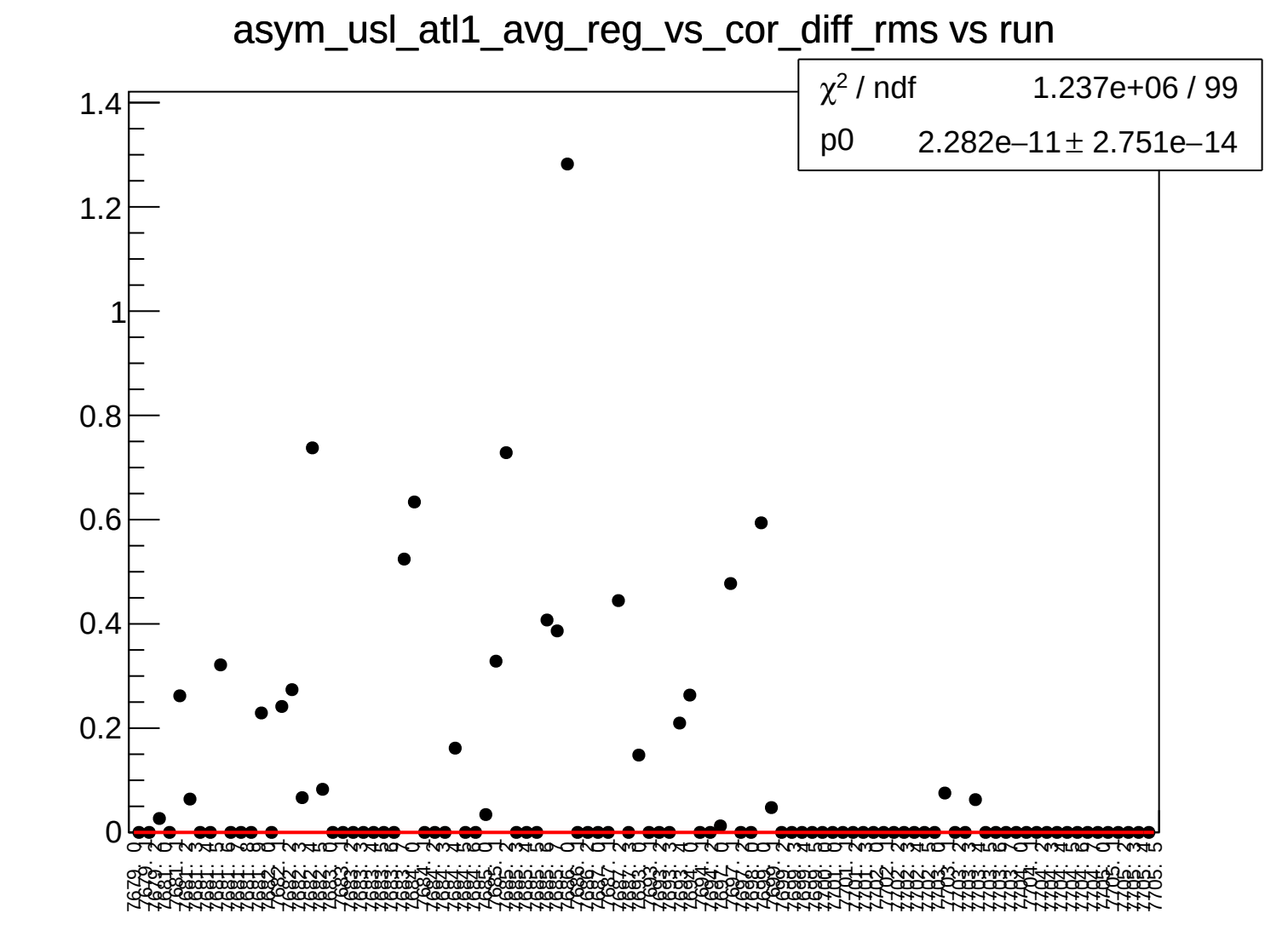

asym_usl_atl1_avg_mean vs run
χ² / ndf 84.4 / 99
p0 −3310 ± 1772
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −67.13
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

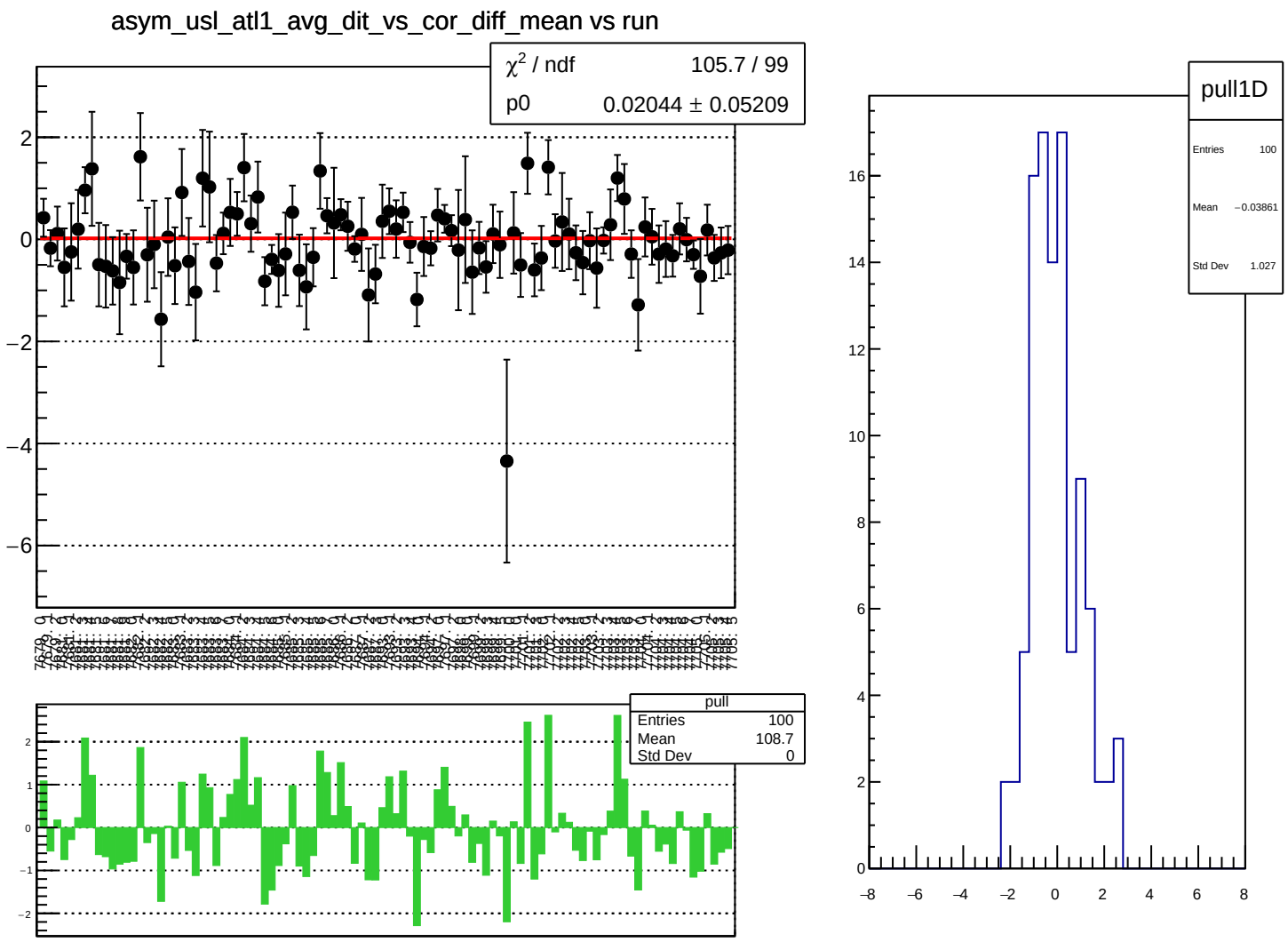

pull1D
Entries 100
Mean −0.02041
Std Dev 0.9185
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

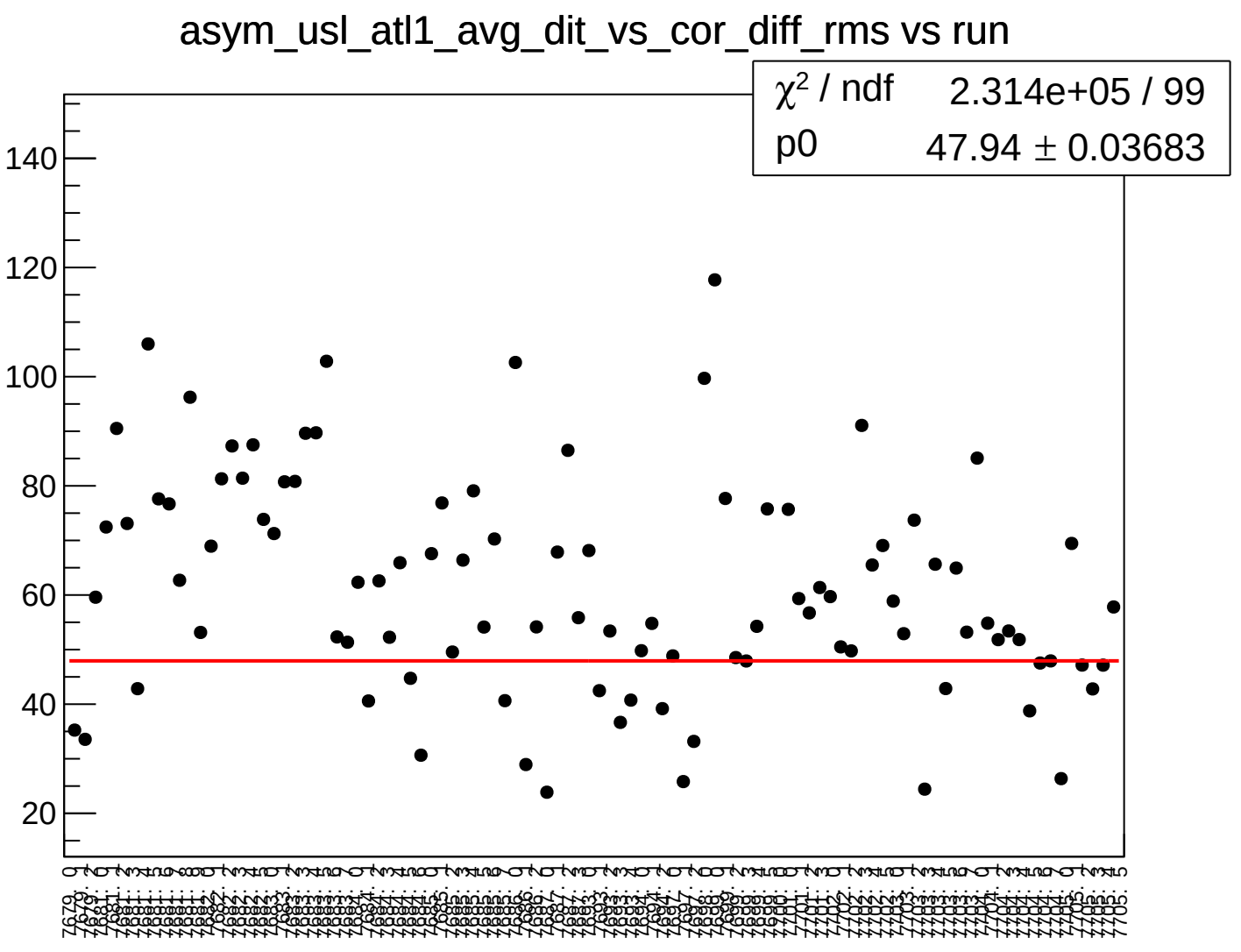

asym_usl_atl1_avg_rms vs run
χ² / ndf 2.192e+04 / 99
p0 1728 ± 1.253
2000
1900
1800
1700
1600
1500

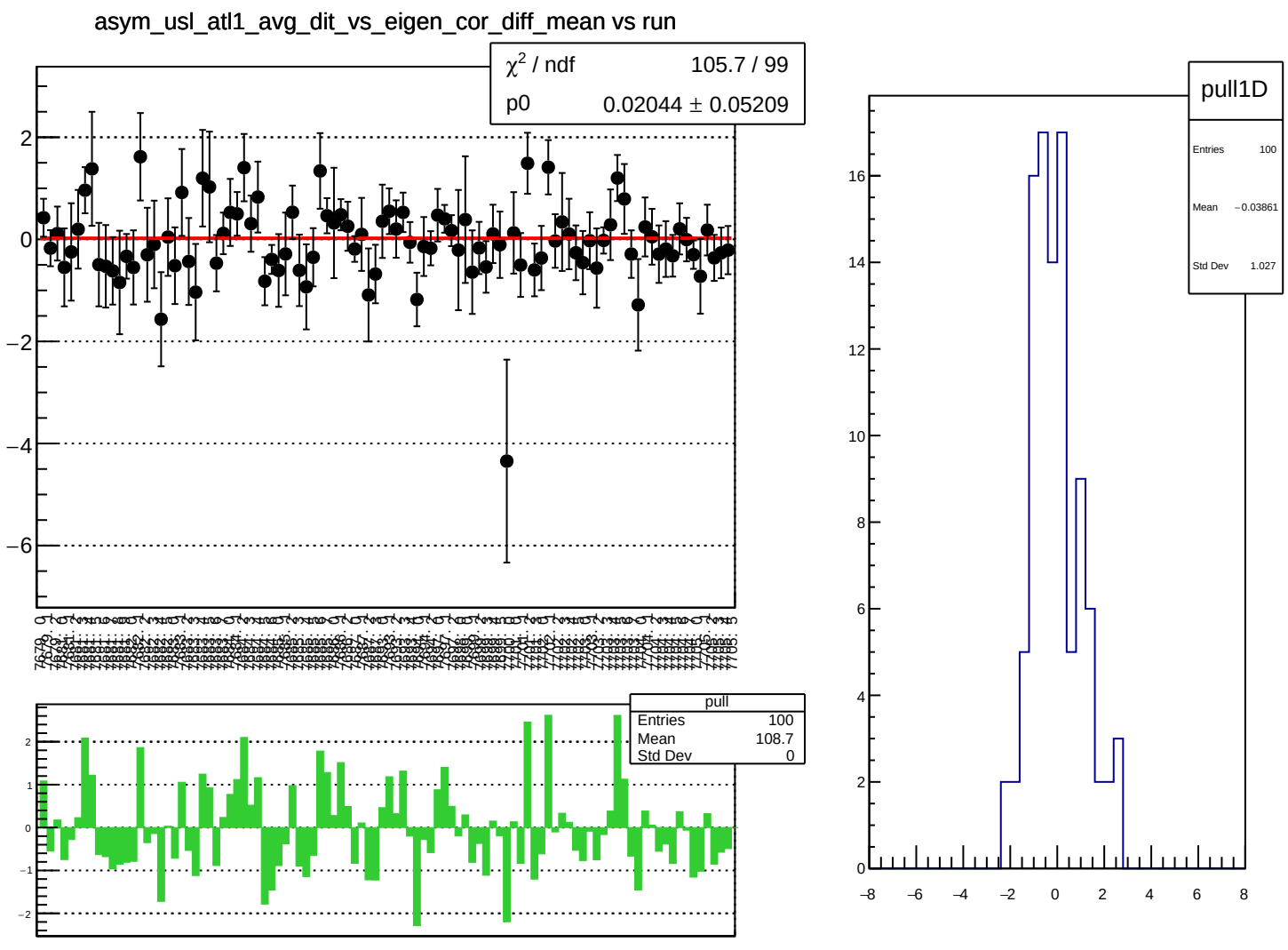

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 107.5 / 99
p0 −7.168e−14 ± 3.891e−14
0.03
0.02
0.01
0
−0.01
pull
Entries 100
Mean 22.81
Std Dev 20.54
2
1
0
−1
−2

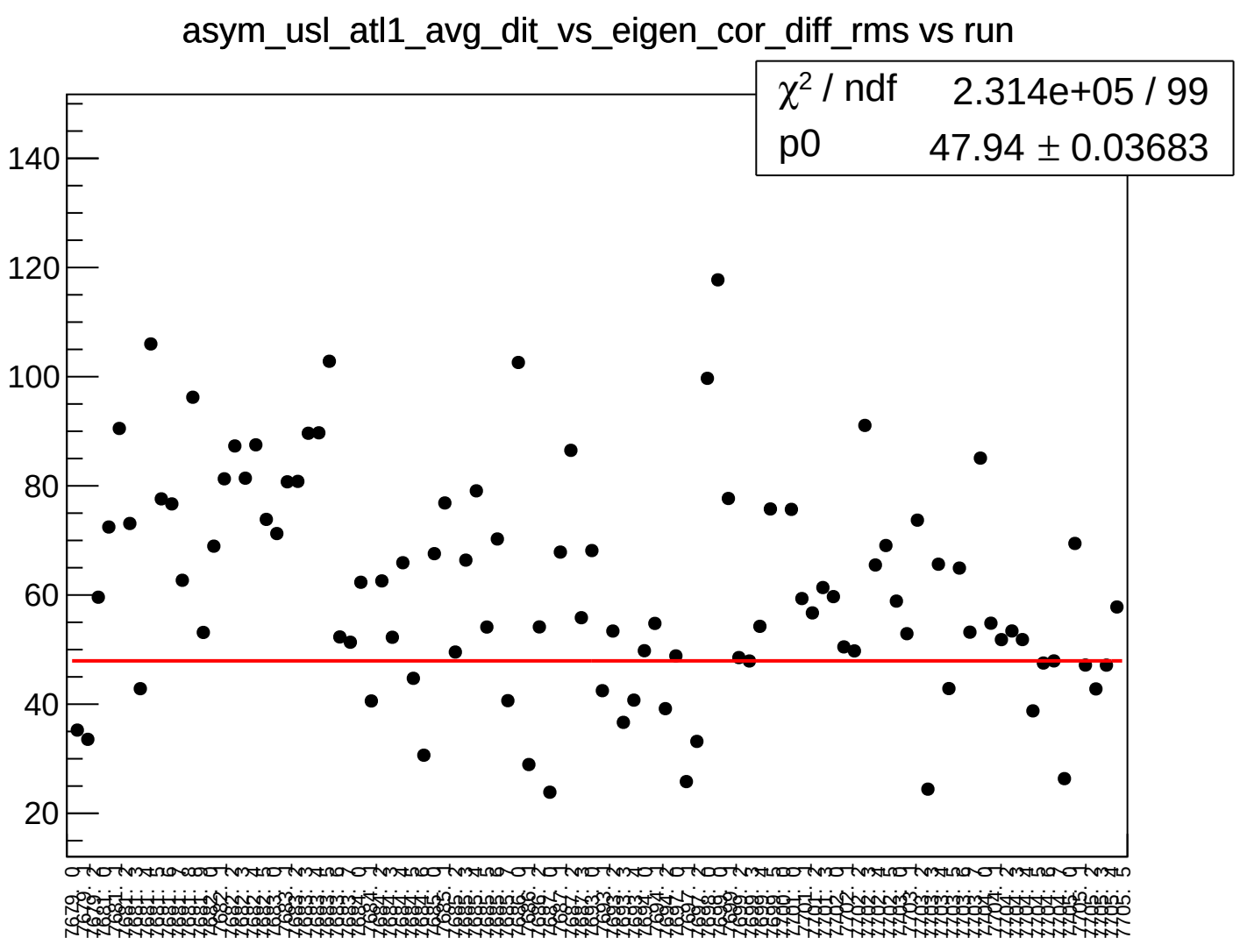

pull1D
Entries 100
Mean 0.1536
Std Dev 1.025
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

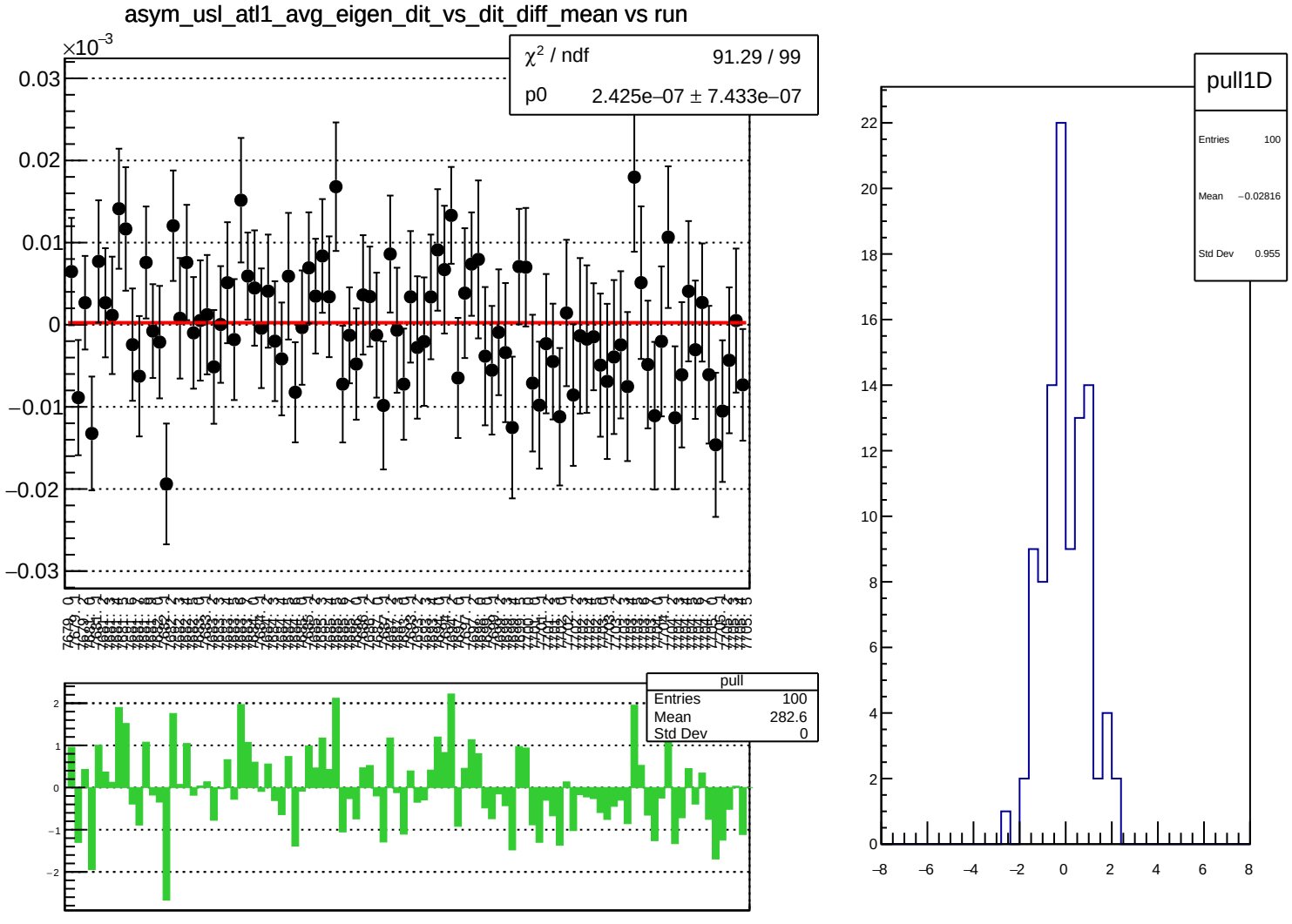

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.237e+06 / 99
p0 2.282e−11 ± 2.751e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

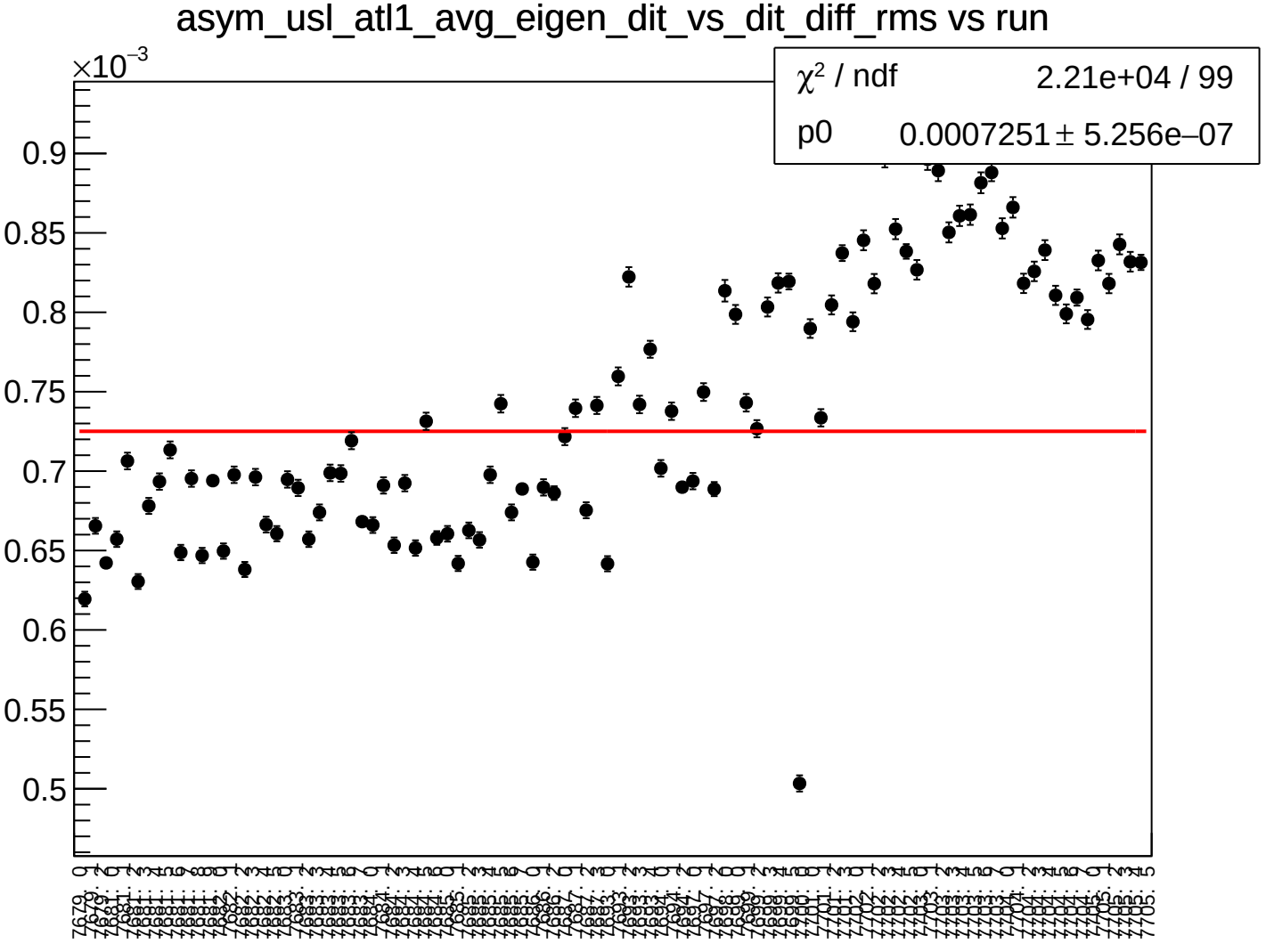

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 105.7 / 99
p0 0.02044 ± 0.05209
pull
Entries 100
Mean 108.7
Std Dev 0
pull1D
Entries 100
Mean −0.03861
Std Dev 1.027

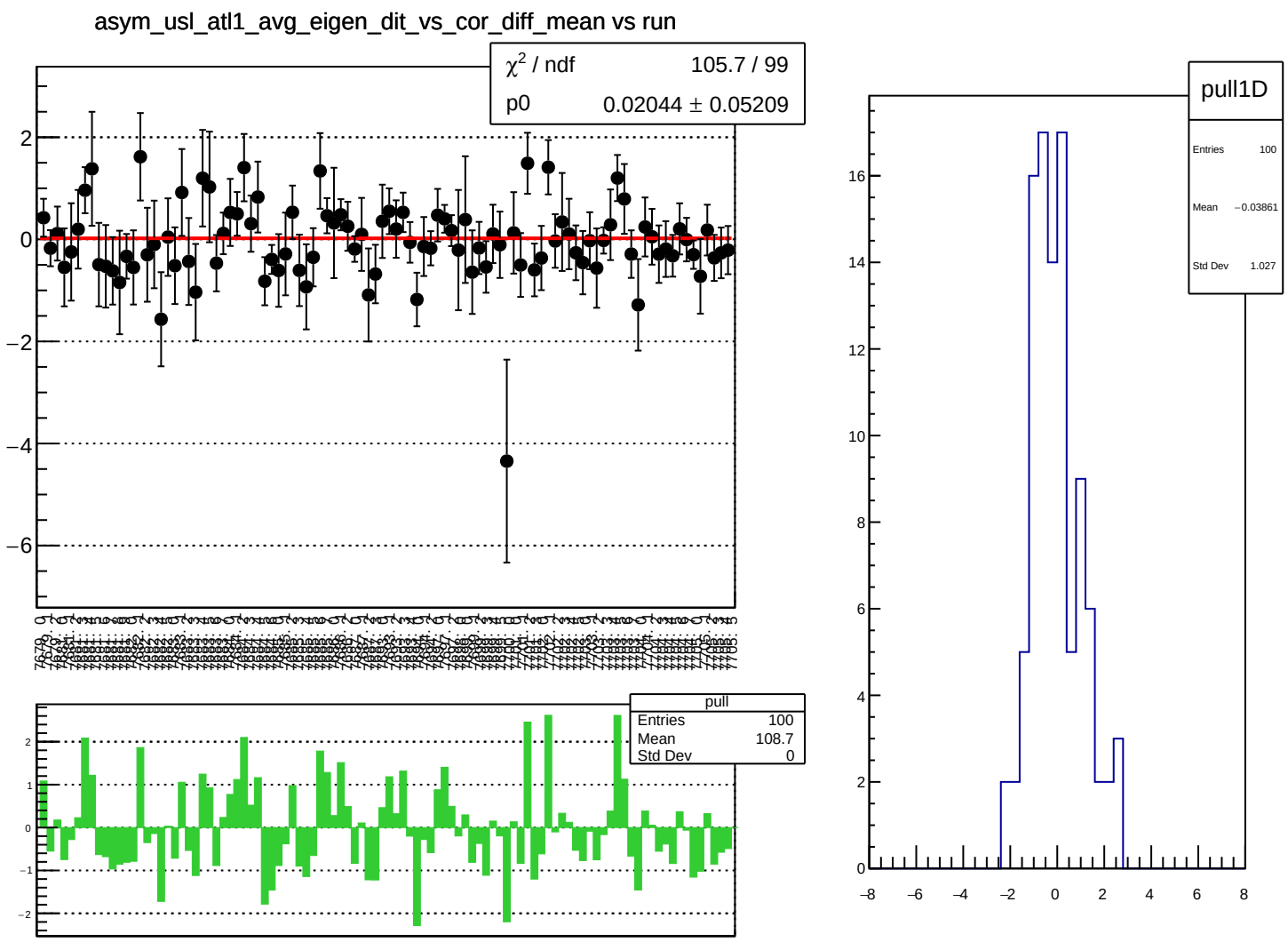

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.314e+05 / 99
p0 47.94 ± 0.03683
140
120
100
80
60
40
20

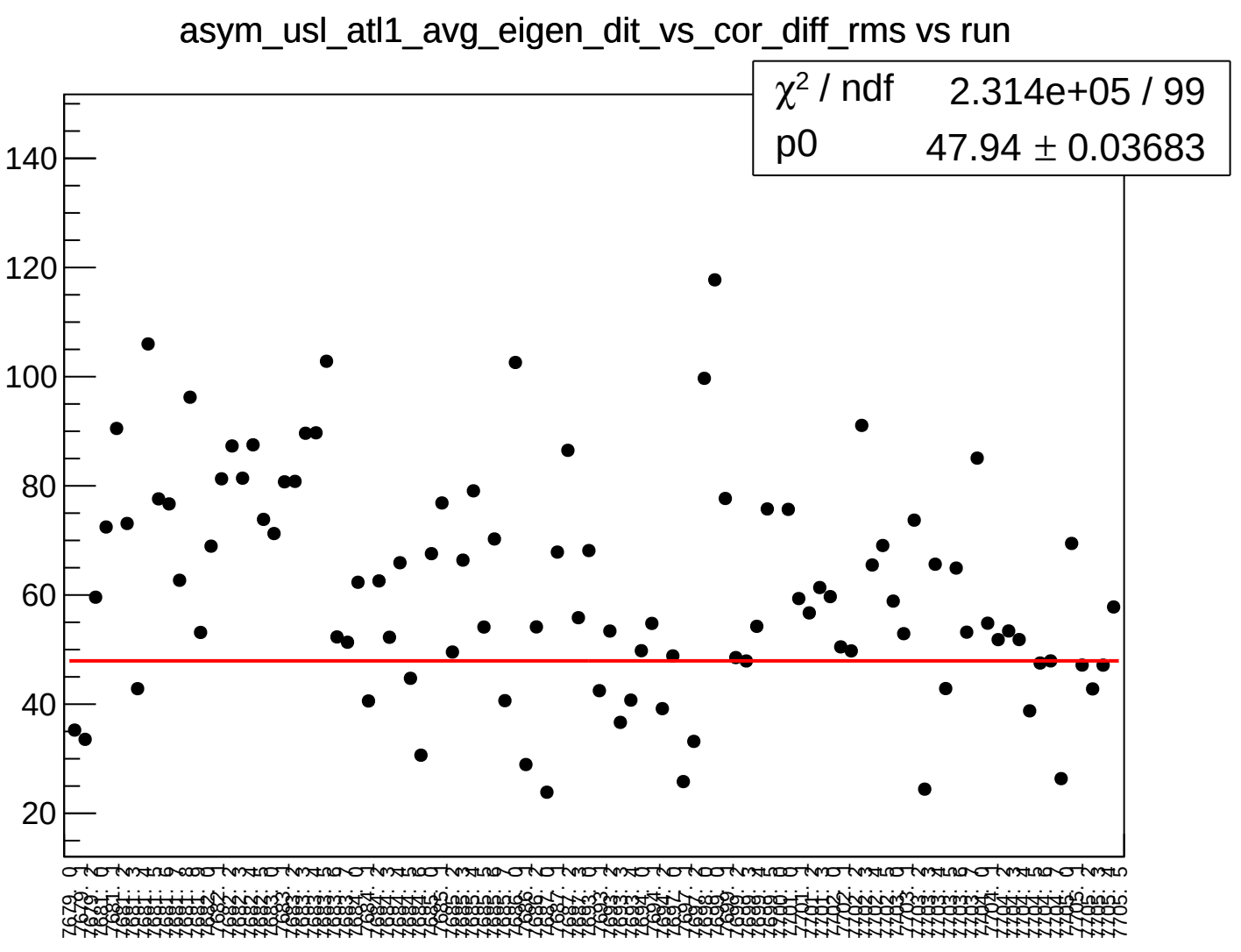

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.7 / 99
p0 0.02044 ± 0.05209
pull
Entries 100
Mean 108.7
Std Dev 0
pull1D
Entries 100
Mean −0.03861
Std Dev 1.027

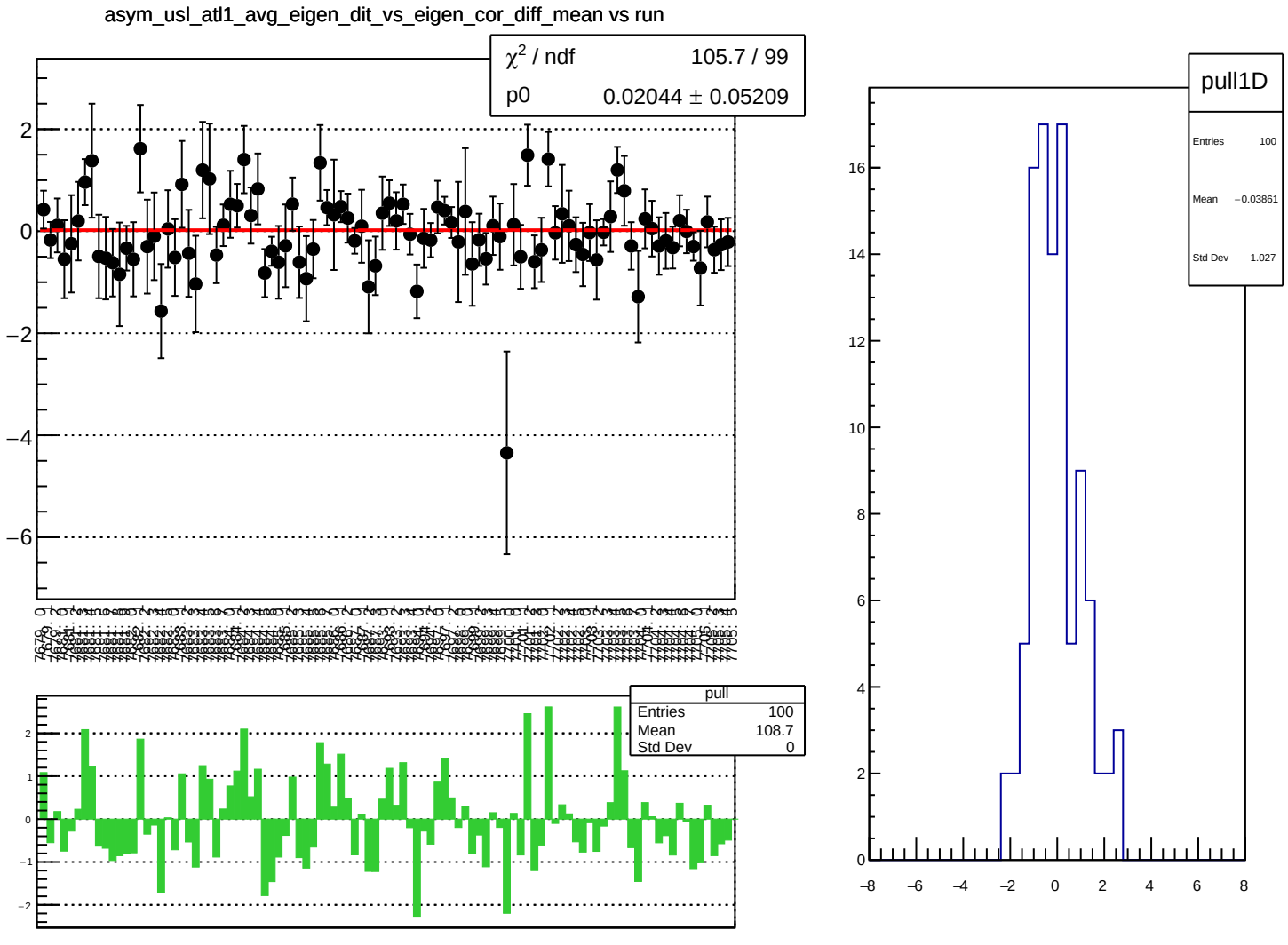

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.314e+05 / 99
p0 47.94 ± 0.03683
140
120
100
80
60
40
20

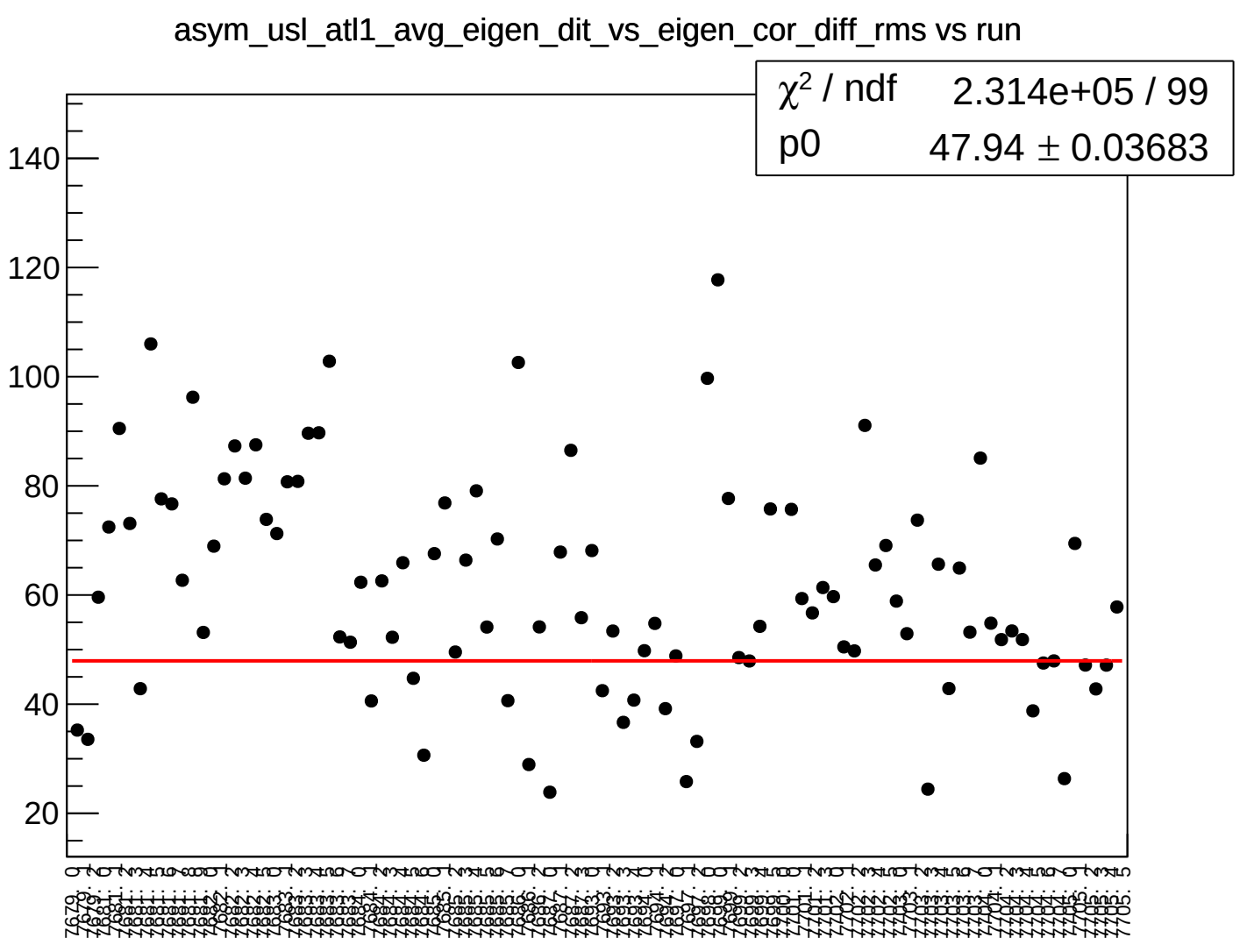

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.29 / 99
p0 2.425e−07 ± 7.433e−07
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 100
Mean 282.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.02816
Std Dev 0.955
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

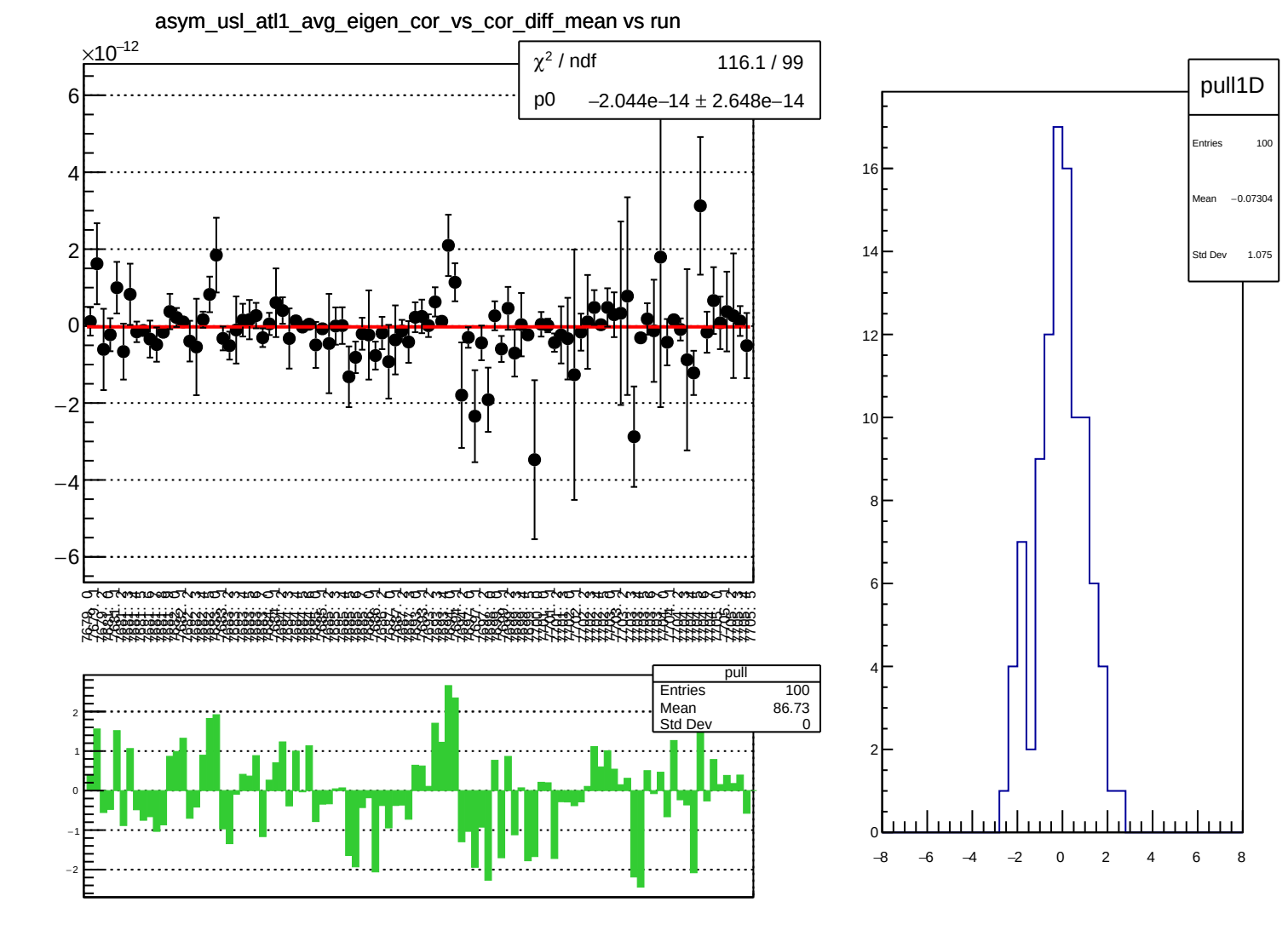

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 2.21e+04 / 99
p0 0.0007251 ± 5.256e−07
0.9
0.85
0.8
0.75
0.7
0.65
0.6
0.55
0.5

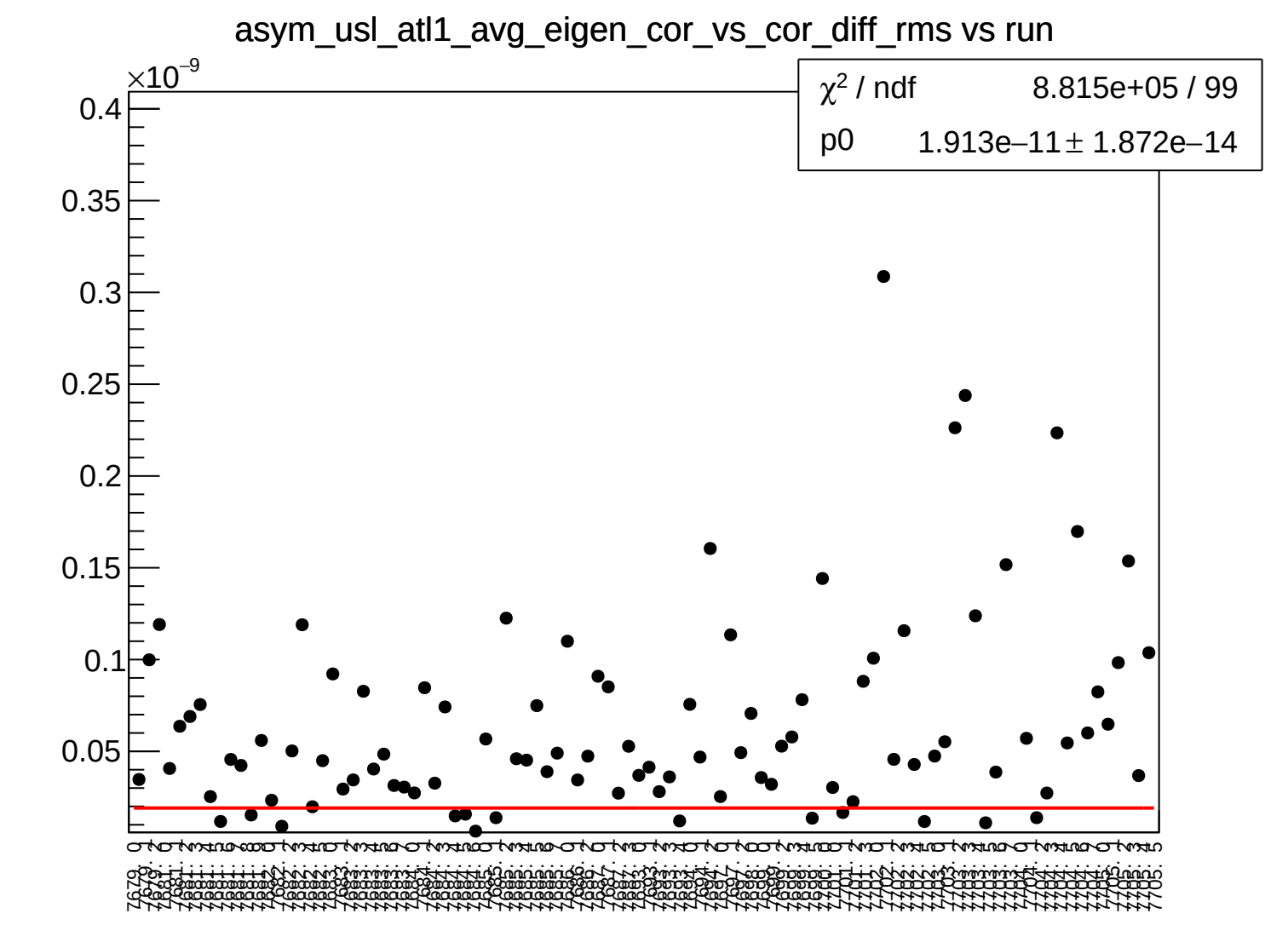

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.7 / 99
p0 0.02044 ± 0.05209
pull
Entries 100
Mean 108.7
Std Dev 0
pull1D
Entries 100
Mean −0.03861
Std Dev 1.027

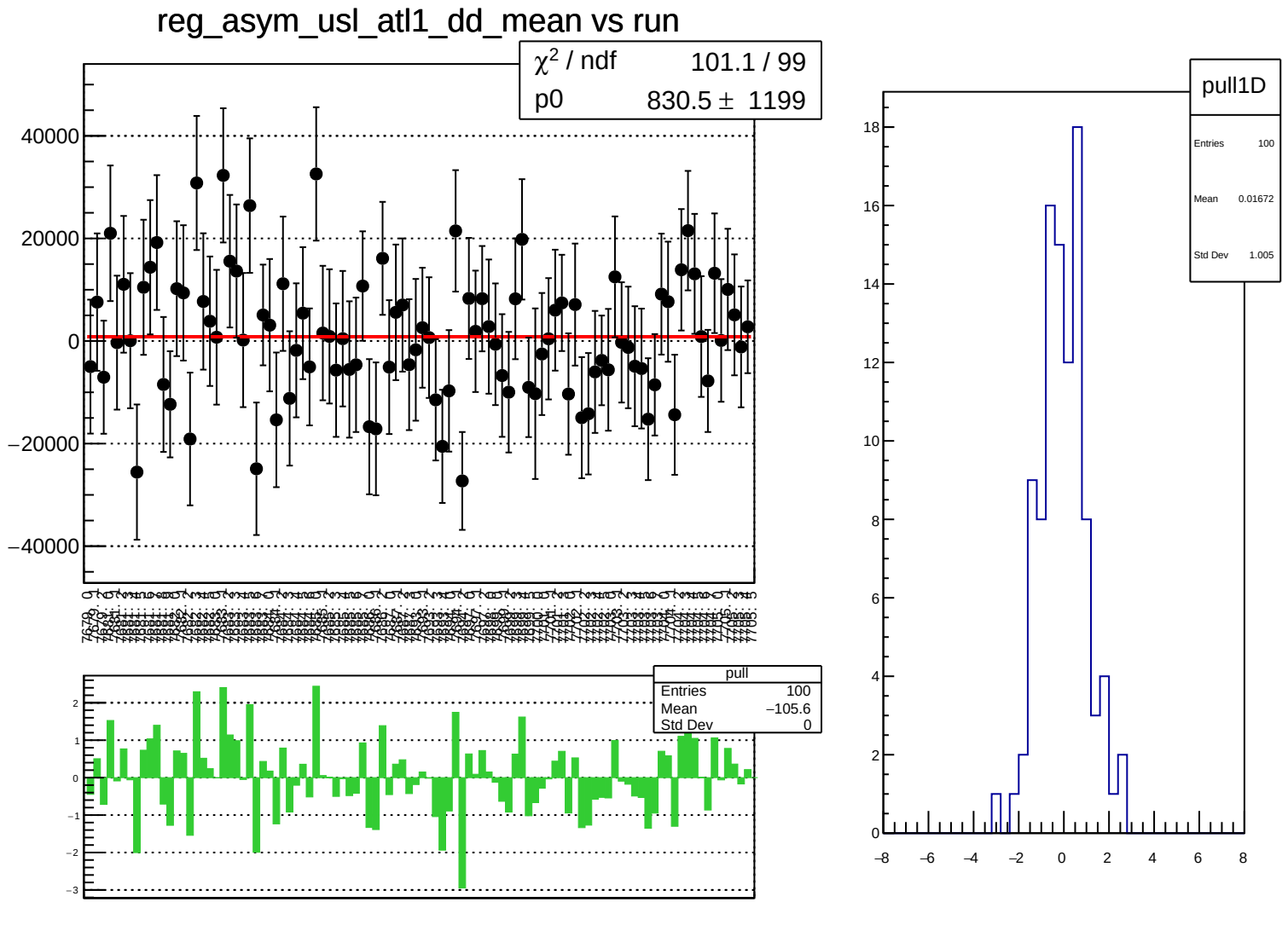

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.314e+05 / 99
p0 47.94 ± 0.03683
140
120
100
80
60
40
20

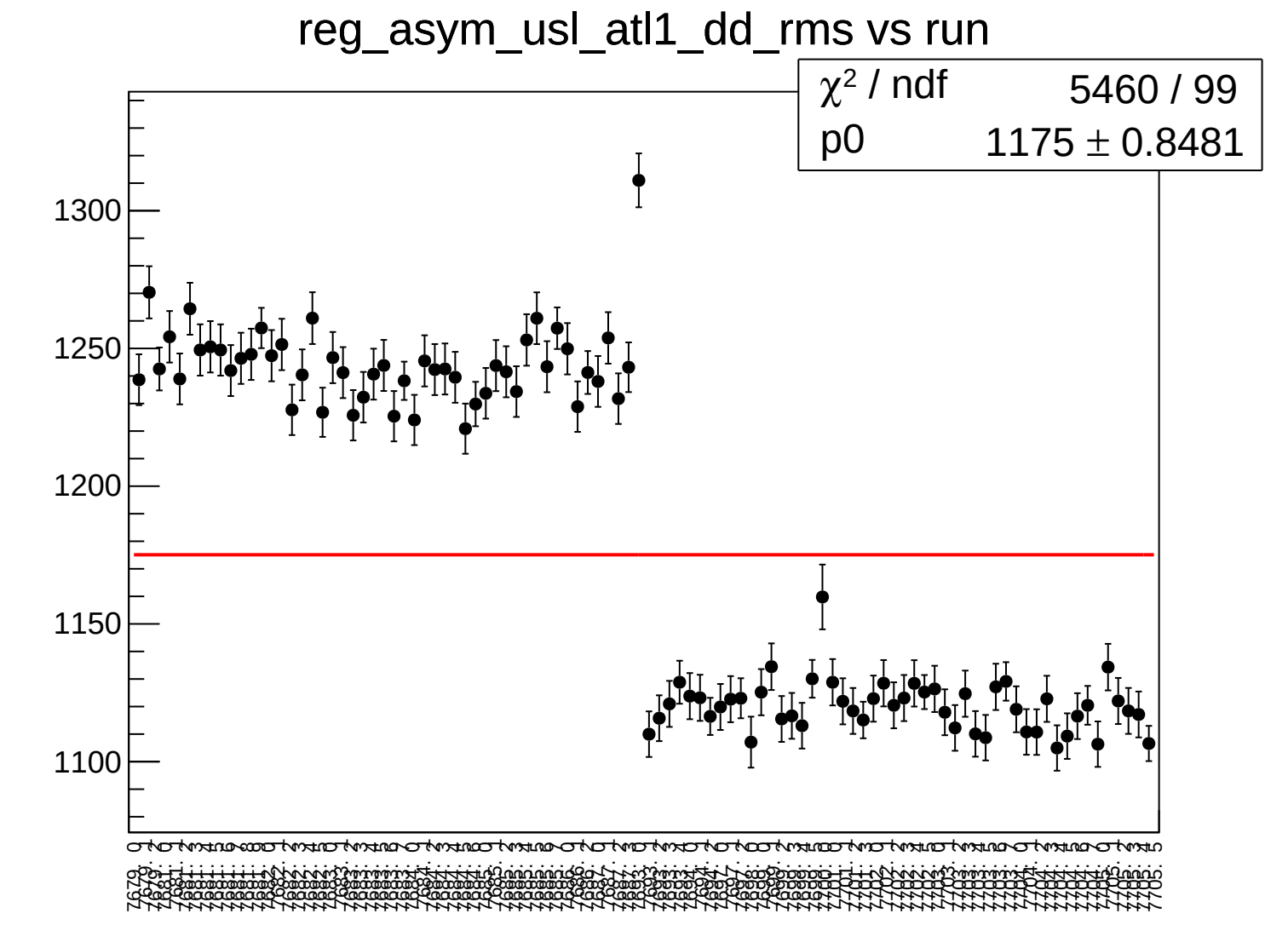

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.7 / 99
p0 0.02044 ± 0.05209
pull
Entries 100
Mean 108.7
Std Dev 0
pull1D
Entries 100
Mean −0.03861
Std Dev 1.027

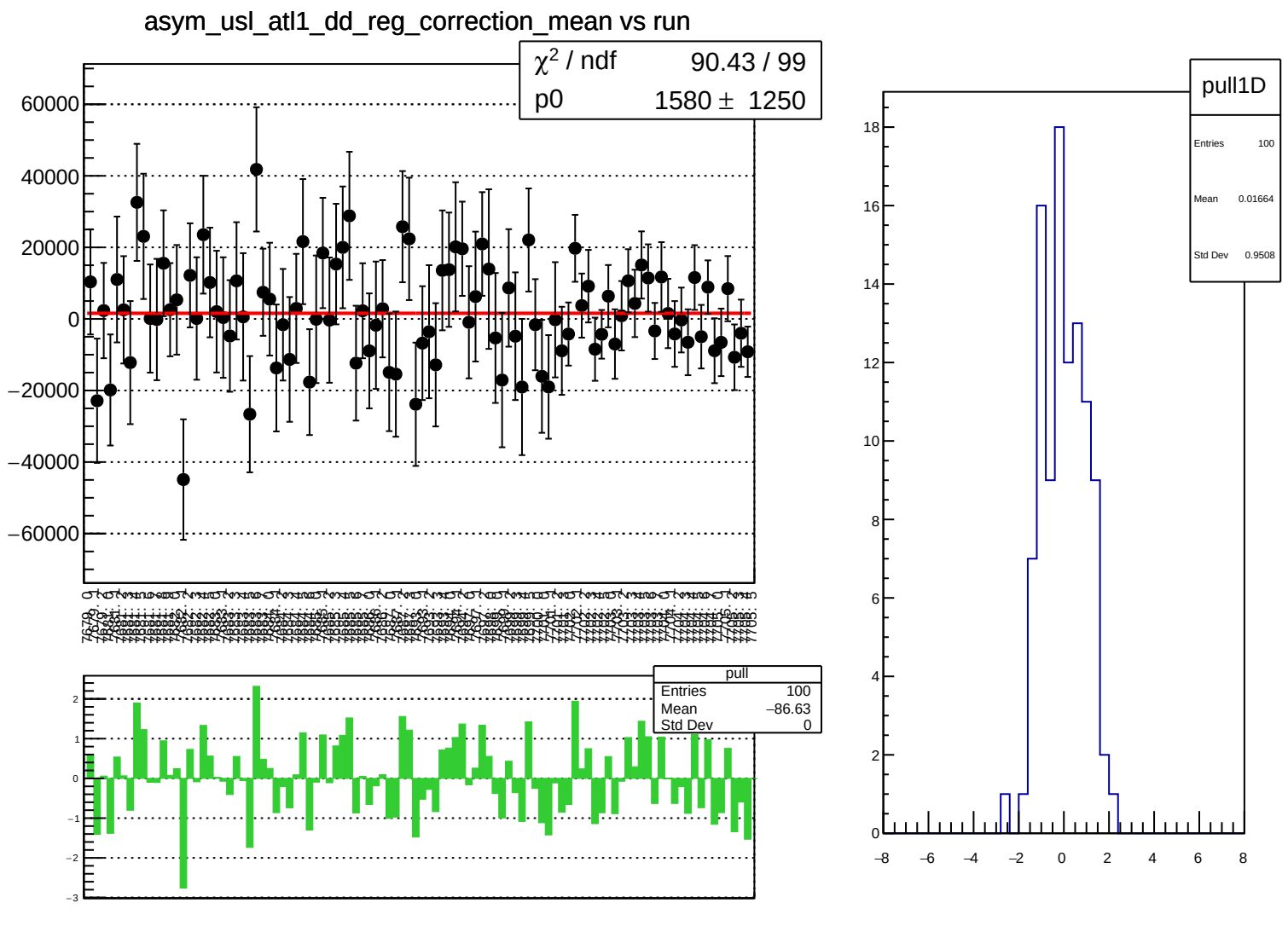

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.314e+05 / 99
p0 47.94 ± 0.03683
140
120
100
80
60
40
20

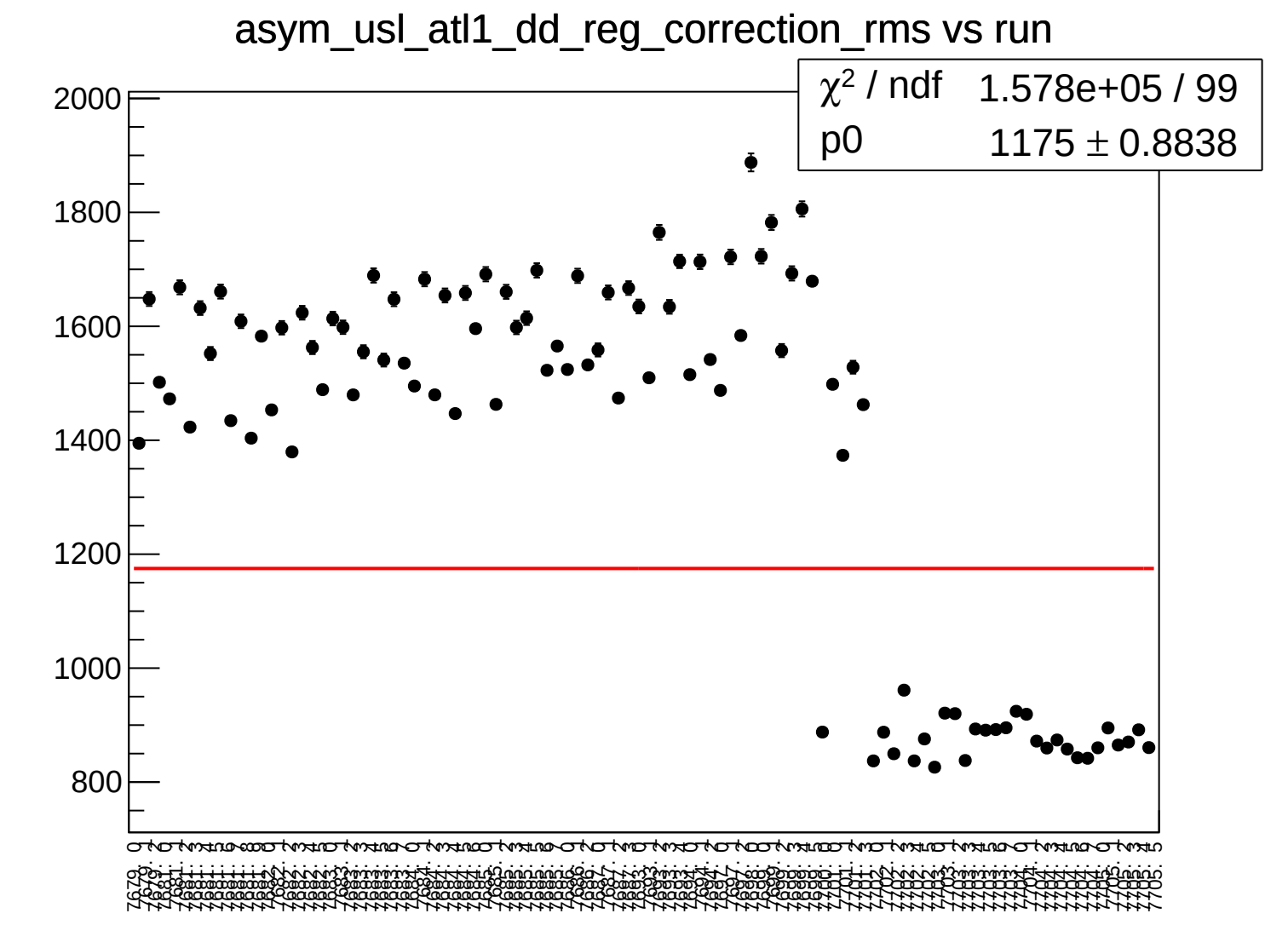

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 116.1 / 99
p0 −2.044e−14 ± 2.648e−14
pull
Entries 100
Mean 86.73
Std Dev 0
pull1D
Entries 100
Mean −0.07304
Std Dev 1.075

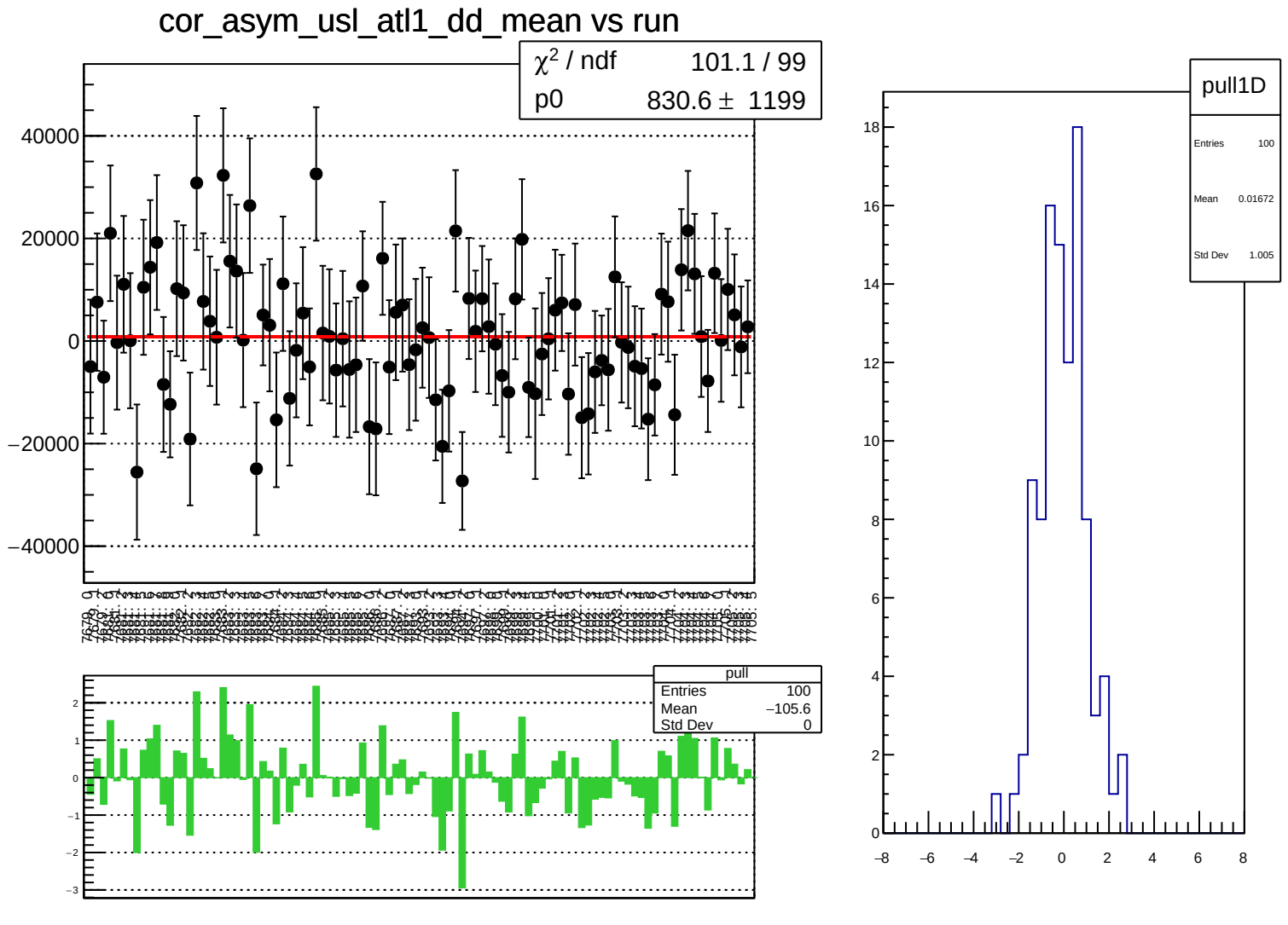

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.815e+05 / 99
p0 1.913e−11 ± 1.872e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

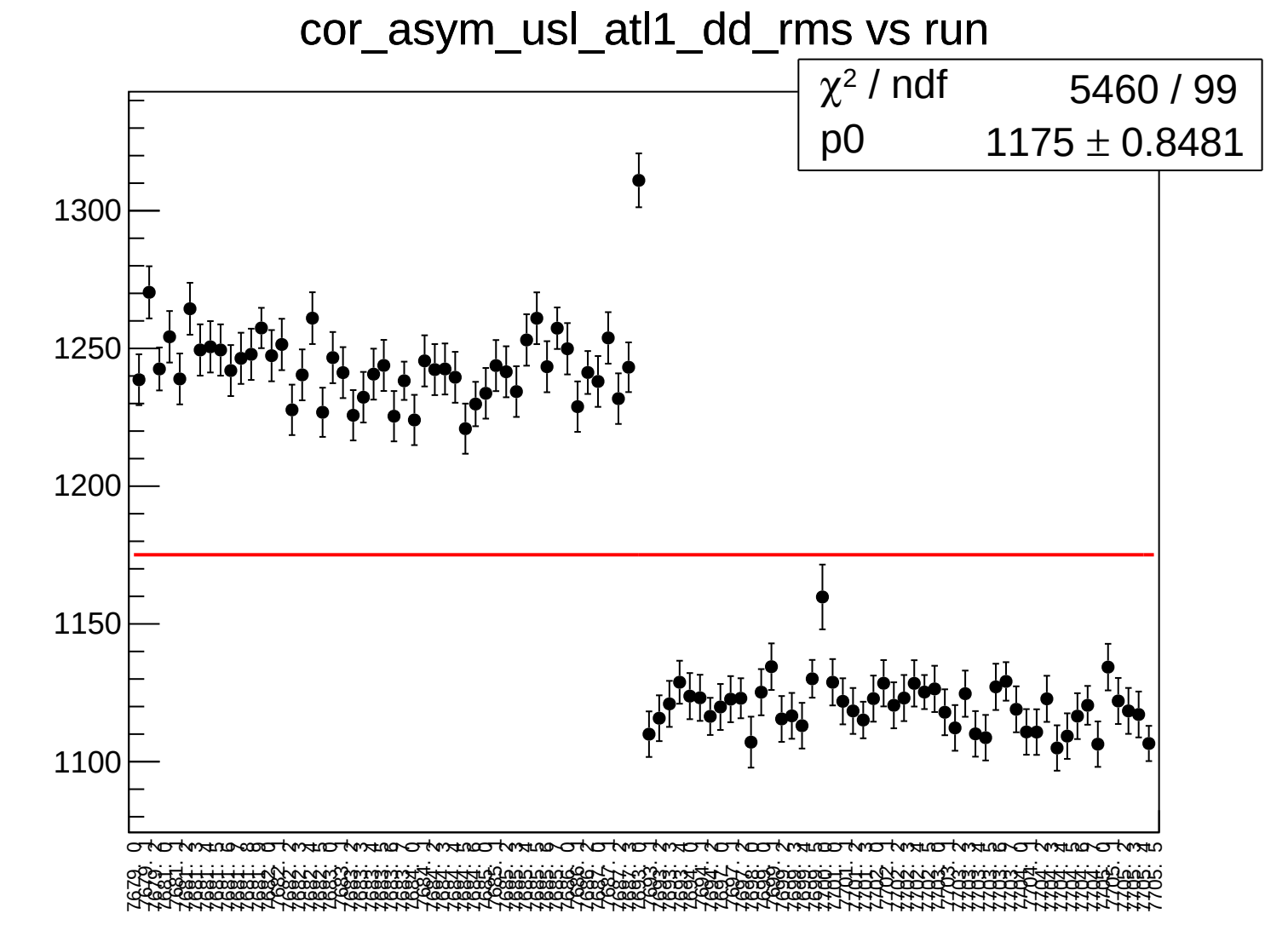

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 101.1 / 99
p0 830.5 ± 1199
40000
20000
0
−20000
−40000
pull
Entries 100
Mean −105.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean 0.01672
Std Dev 1.005
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

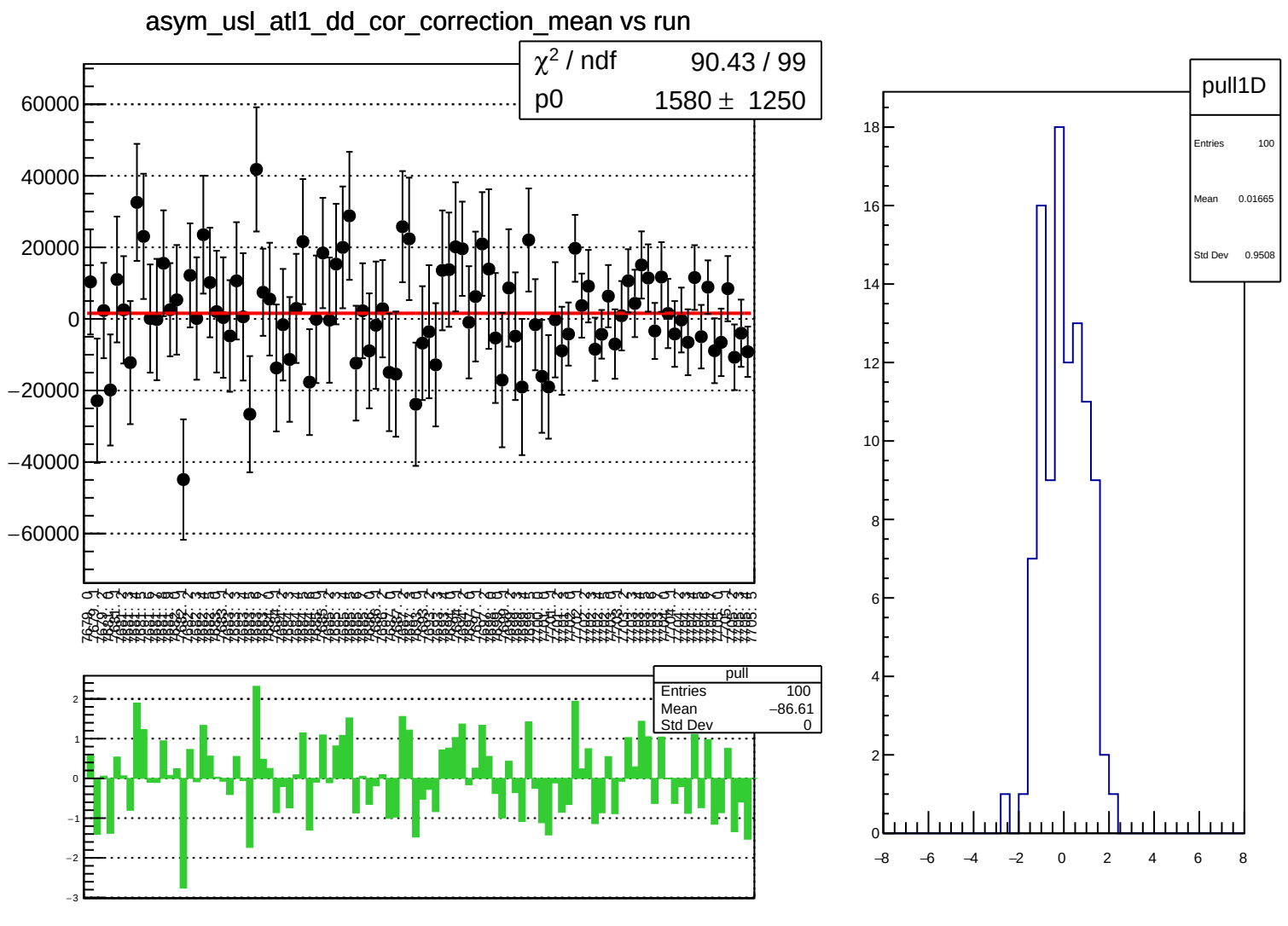

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 5460 / 99
p0 1175 ± 0.8481
1300
1250
1200
1150
1100

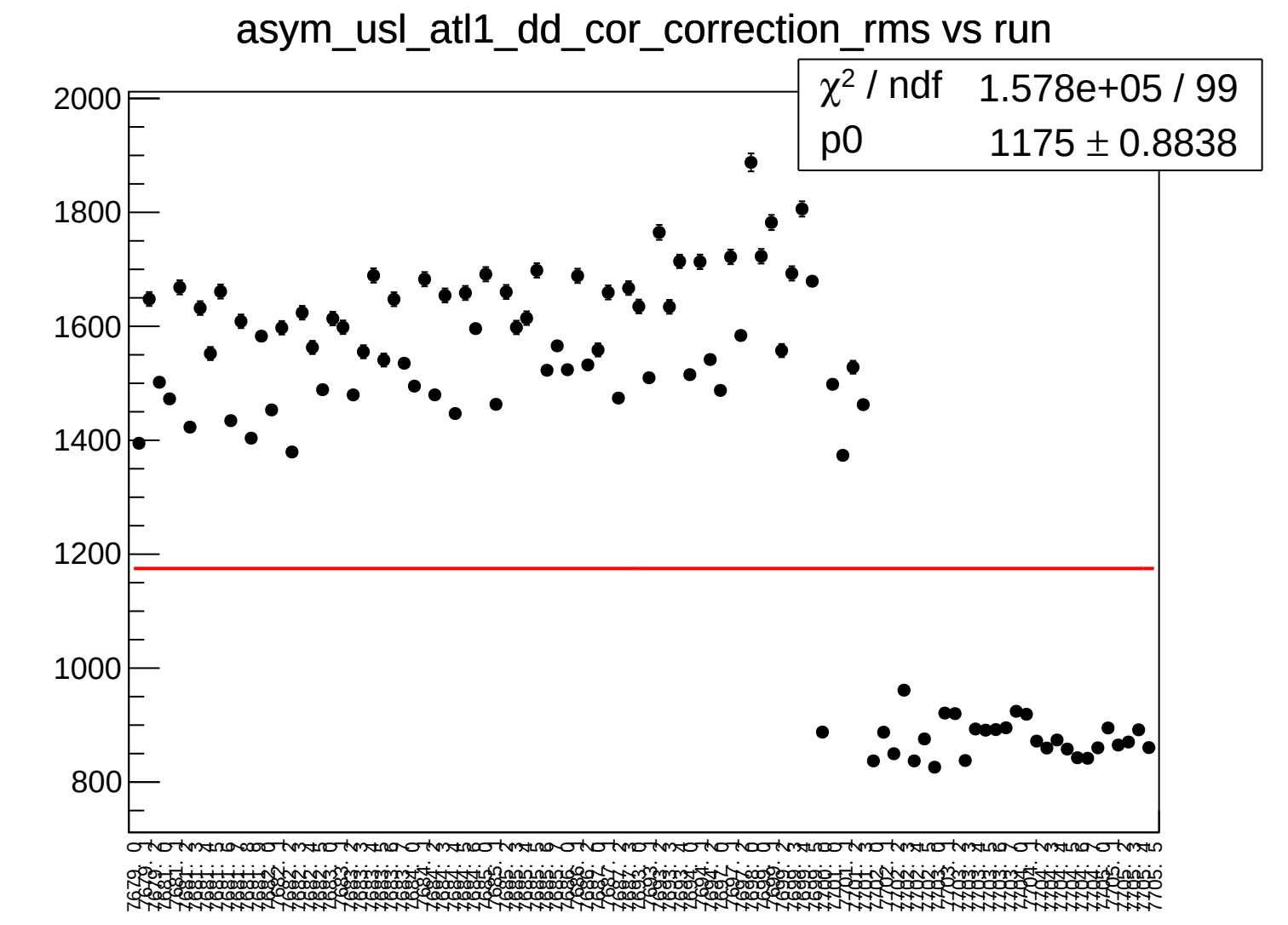

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 90.43 / 99
p0 1580 ± 1250
pull
Entries 100
Mean −86.63
Std Dev 0
pull1D
Entries 100
Mean 0.01664
Std Dev 0.9508

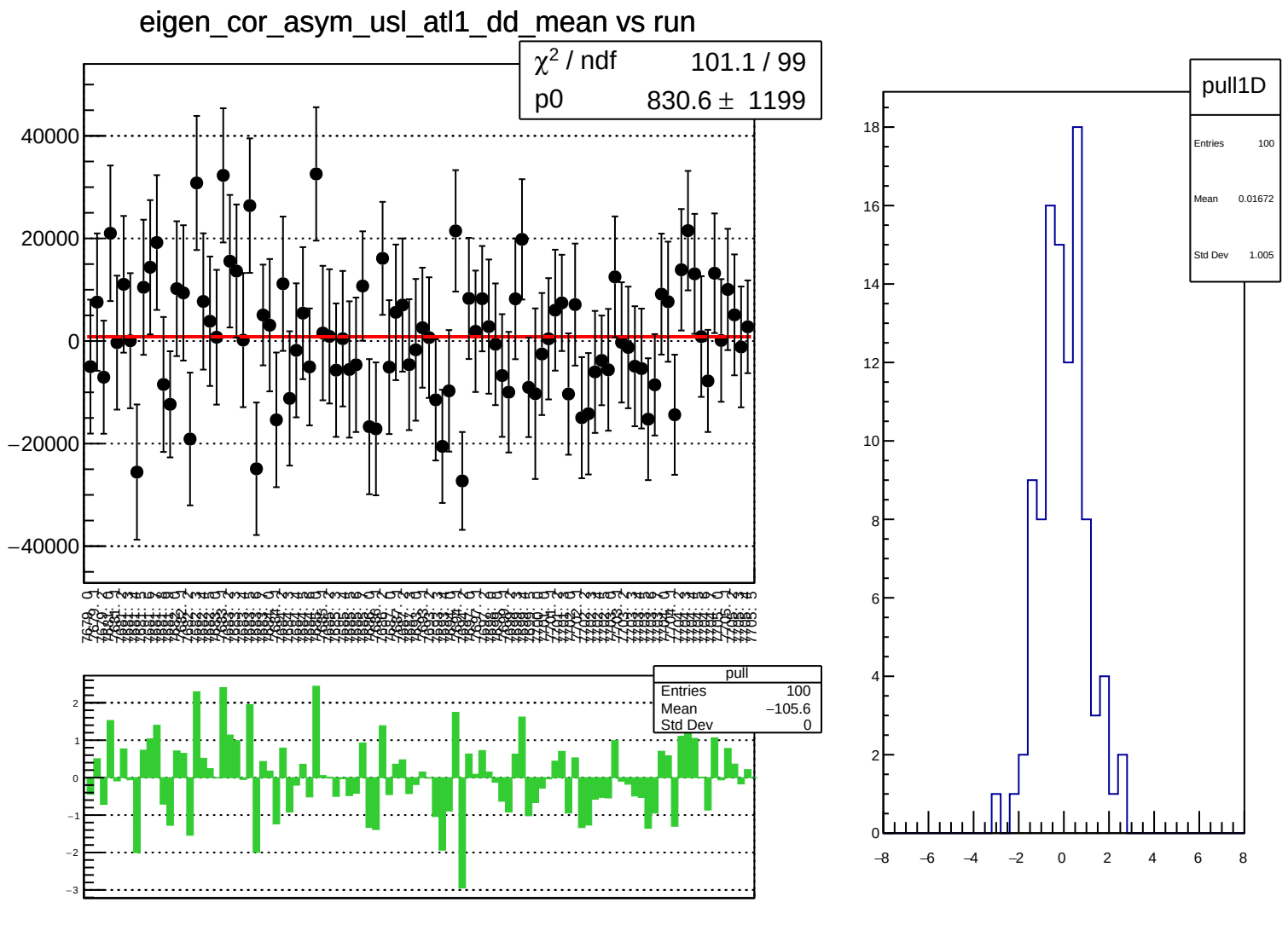

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 1.578e+05 / 99
p0 1175 ± 0.8838
2000
1800
1600
1400
1200
1000
800


cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 101.1 / 99
p0 830.6 ± 1199
40000
20000
0
−20000
−40000
pull
Entries 100
Mean −105.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean 0.01672
Std Dev 1.005
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 5460 / 99
p0 1175 ± 0.8481
1300
1250
1200
1150
1100


asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 90.43 / 99
p0 1580 ± 1250
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −86.61
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean 0.01665
Std Dev 0.9508
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 1.578e+05 / 99
p0 1175 ± 0.8838
2000
1800
1600
1400
1200
1000
800


eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 101.1 / 99
p0 830.6 ± 1199
40000
20000
0
−20000
−40000
pull
Entries 100
Mean −105.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean 0.01672
Std Dev 1.005
18
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10
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6
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2
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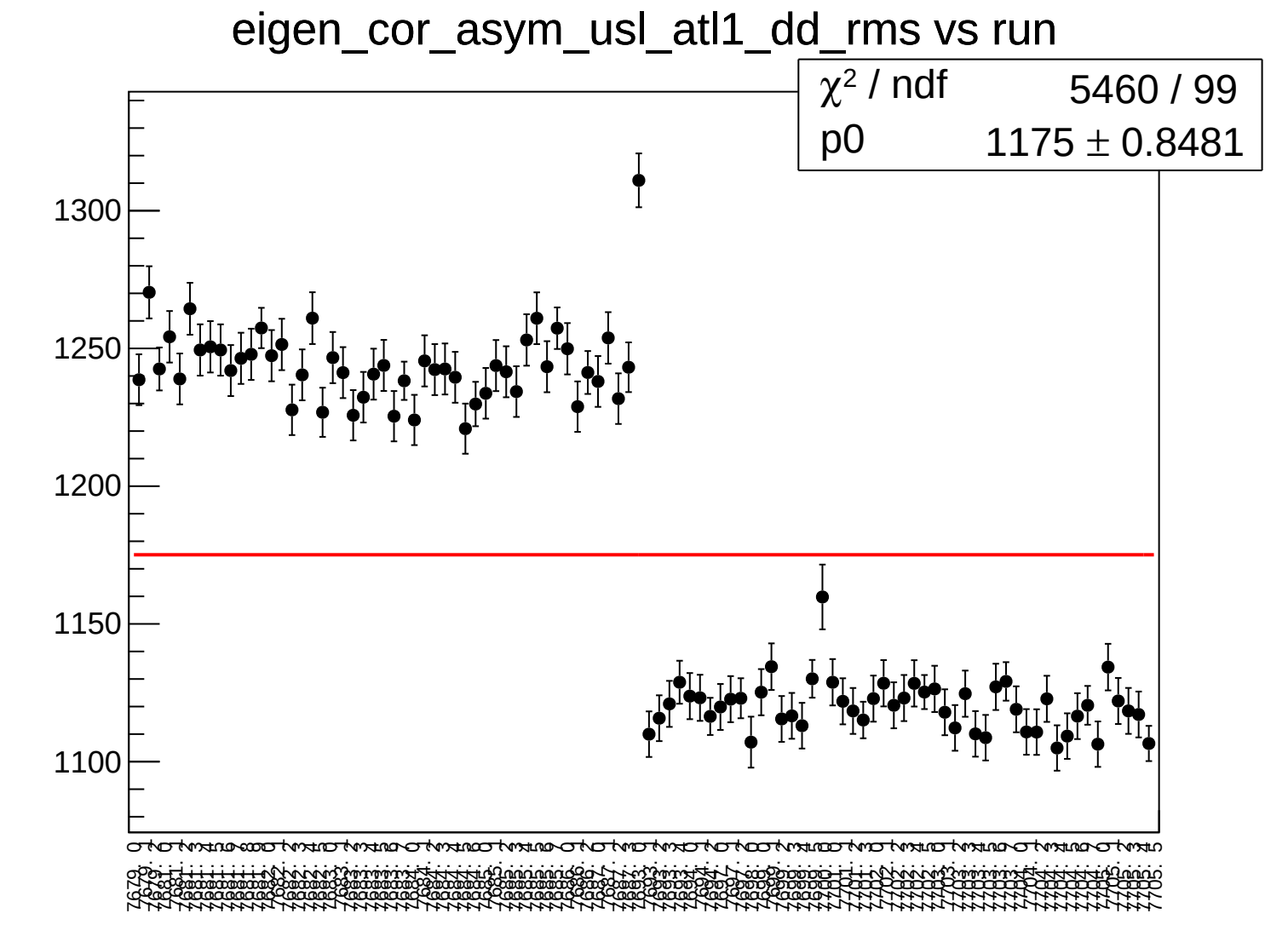
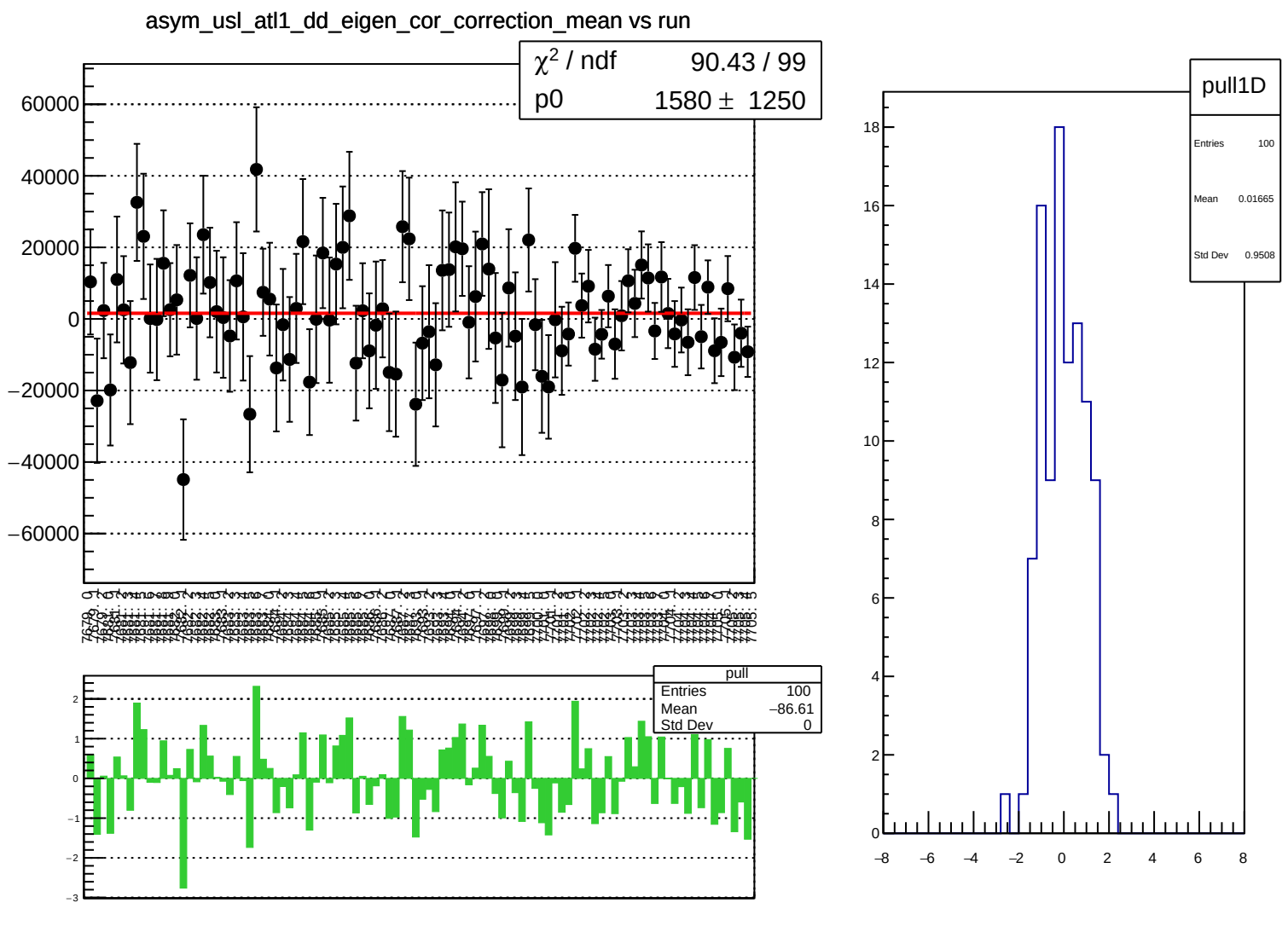
−4
−2
0
2
4
6
8


eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 5460 / 99
p0 1175 ± 0.8481
1300
1250
1200
1150
1100


asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 90.43 / 99
p0 1580 ± 1250
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −86.61
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean 0.01665
Std Dev 0.9508
18
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−4
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2
4
6
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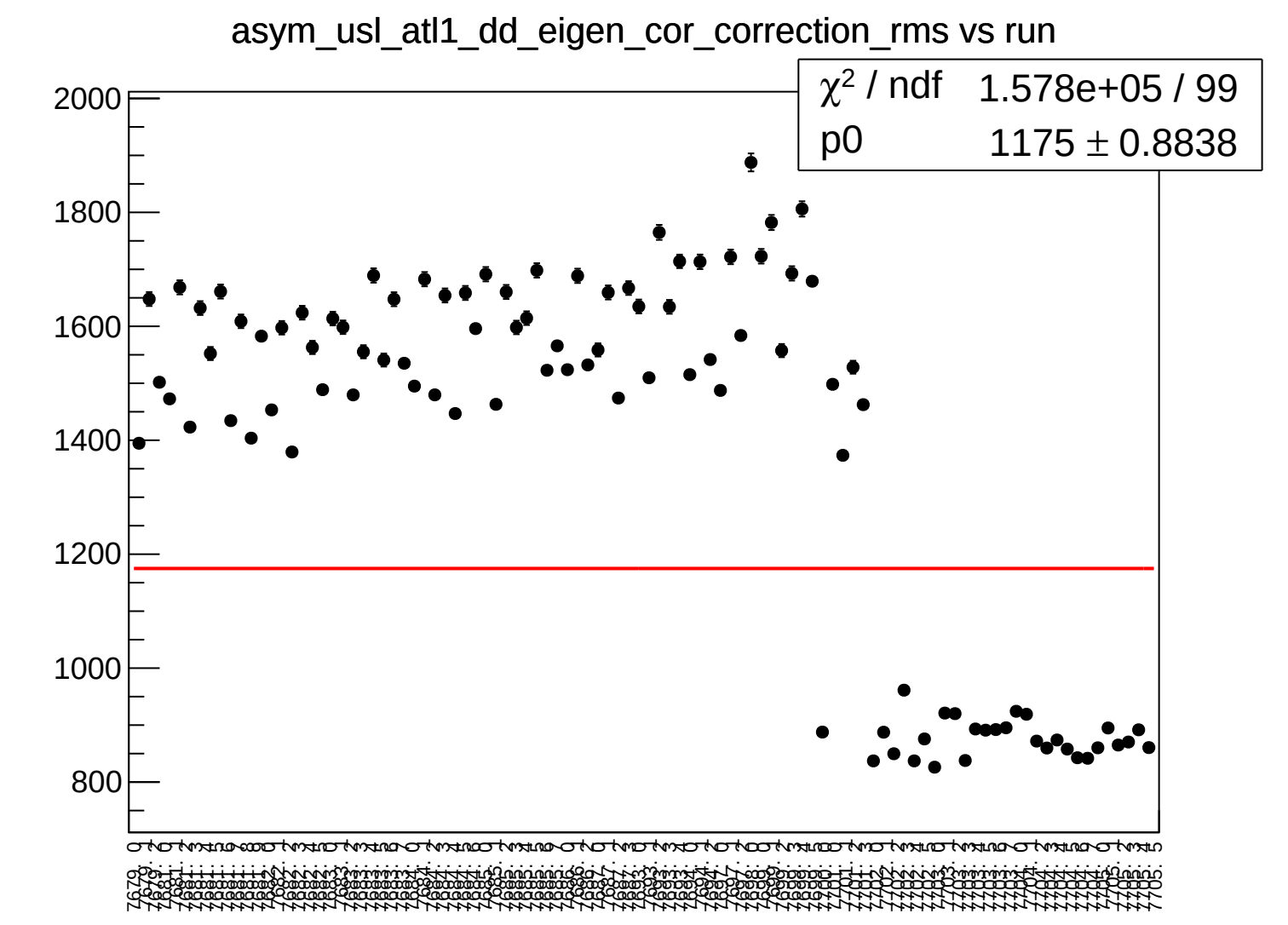
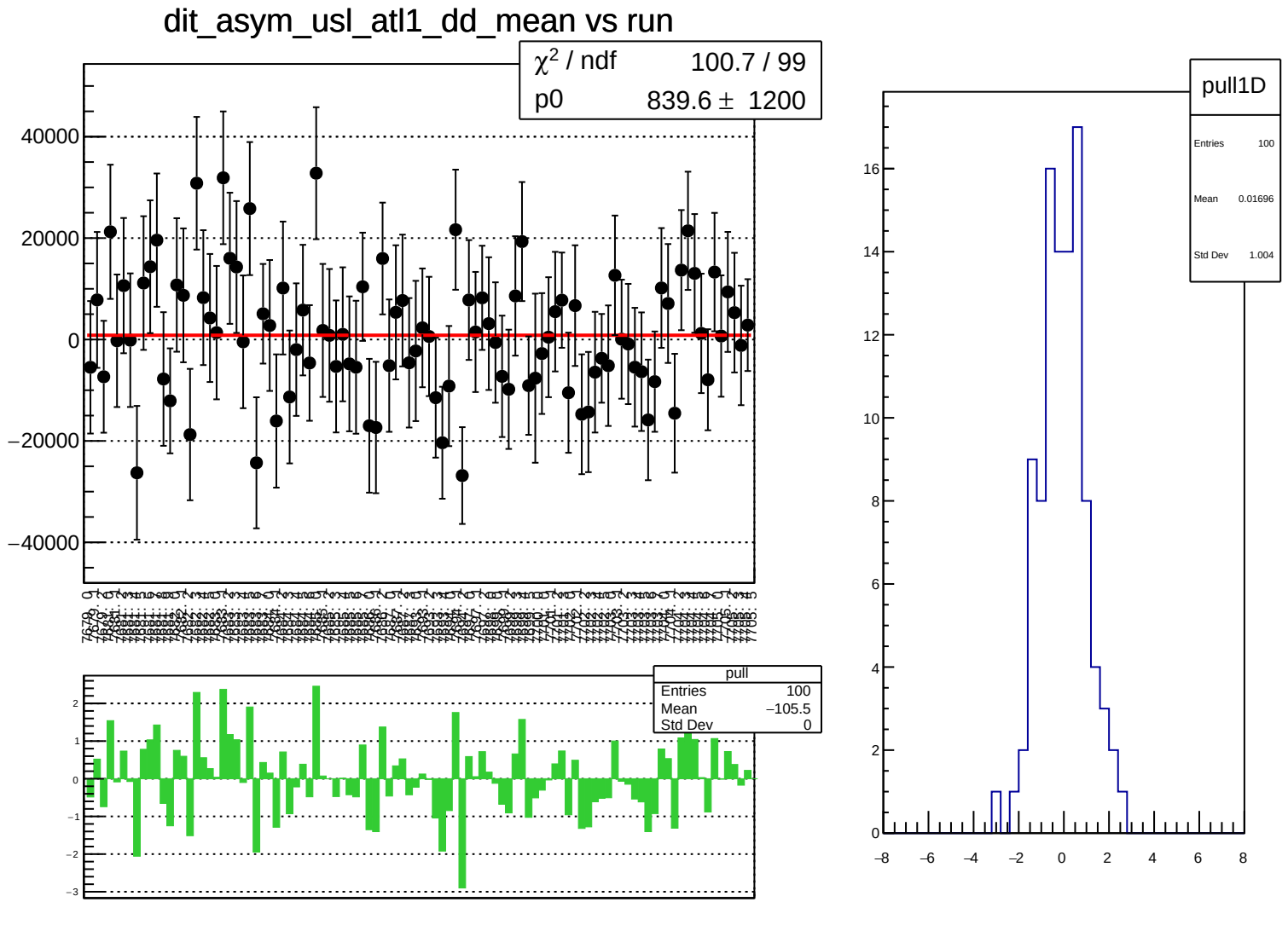
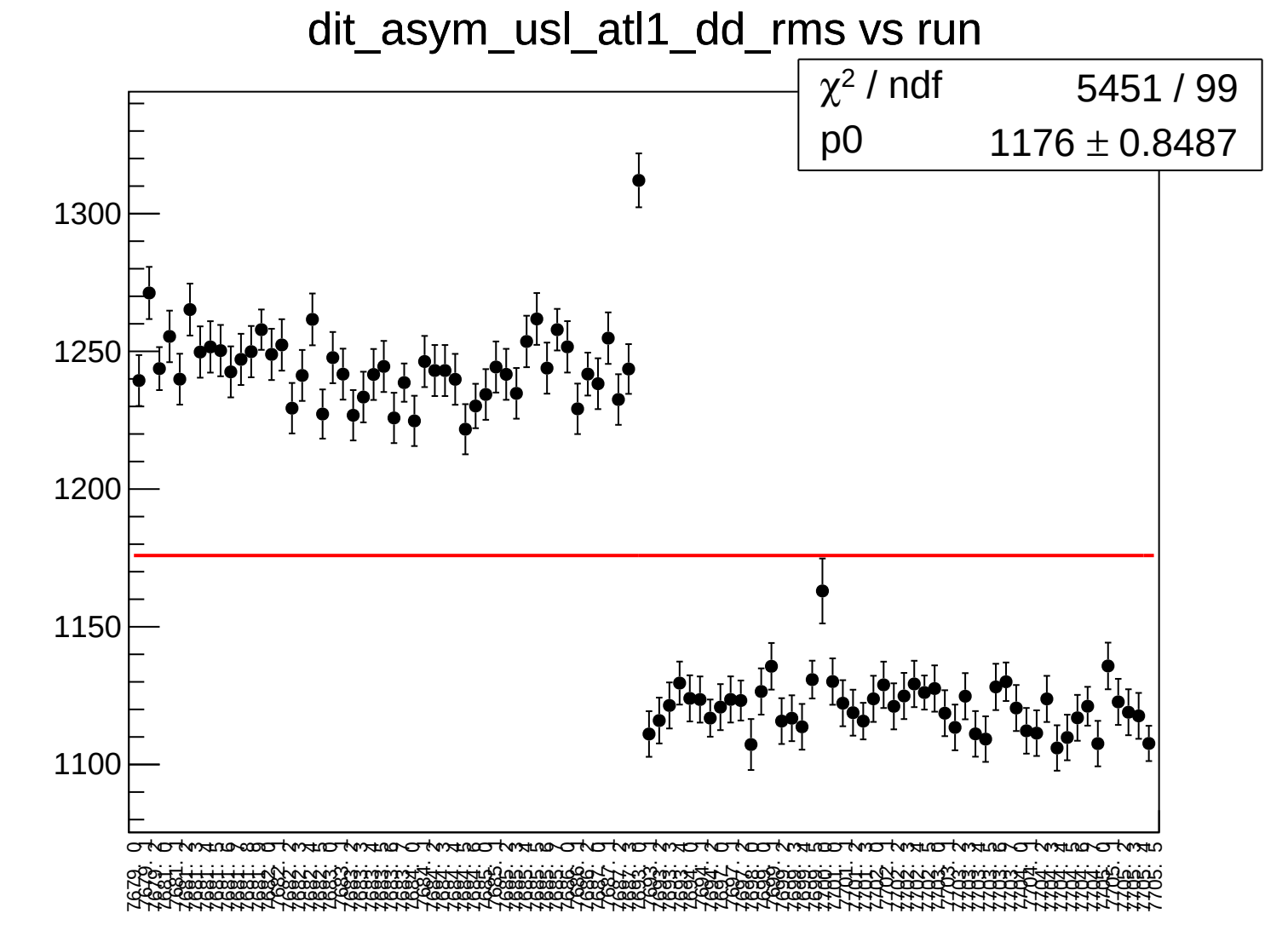
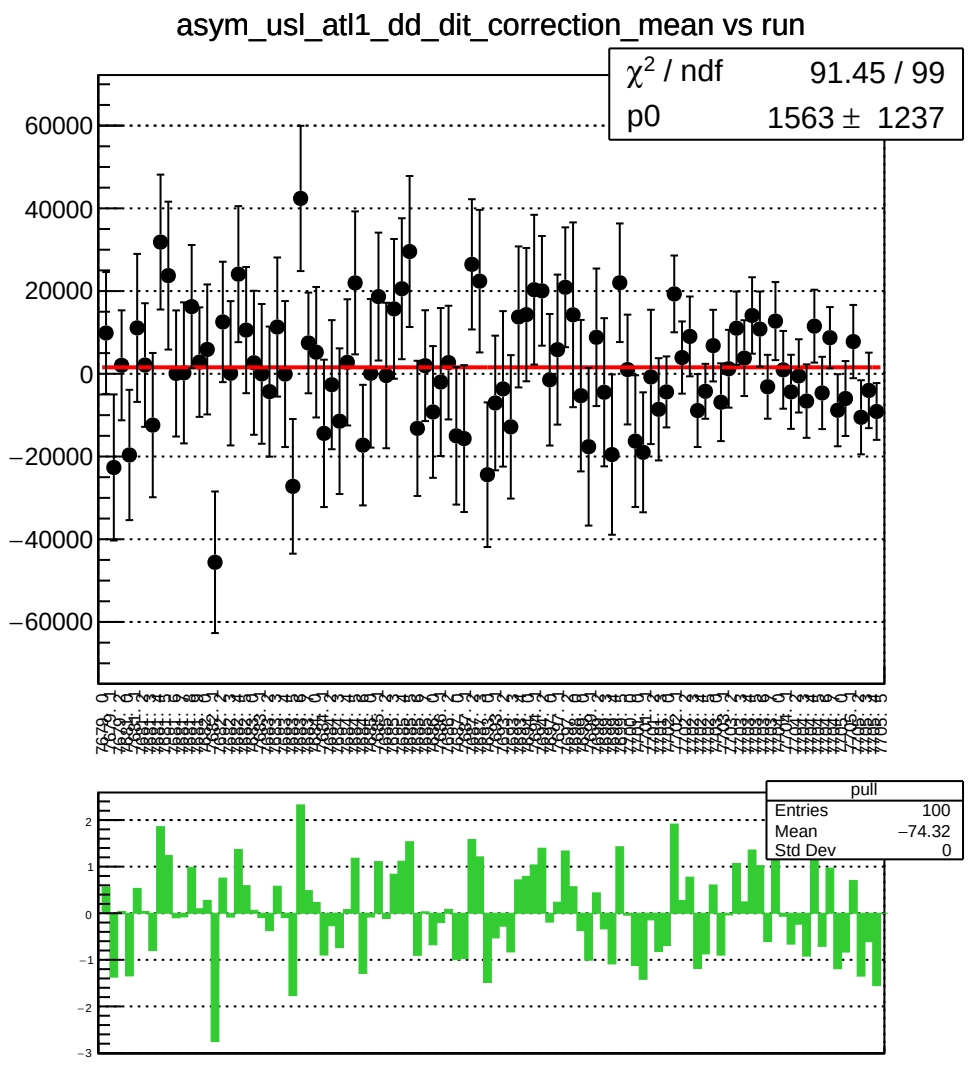
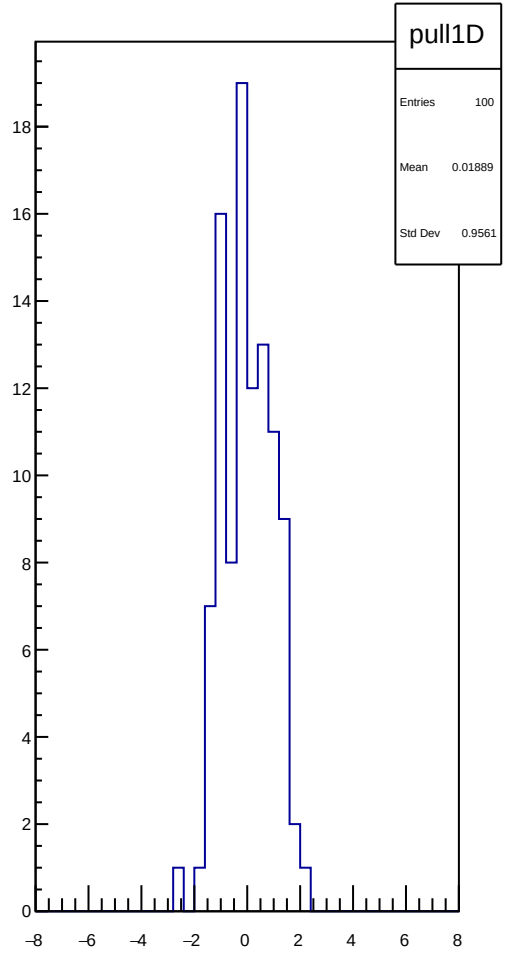
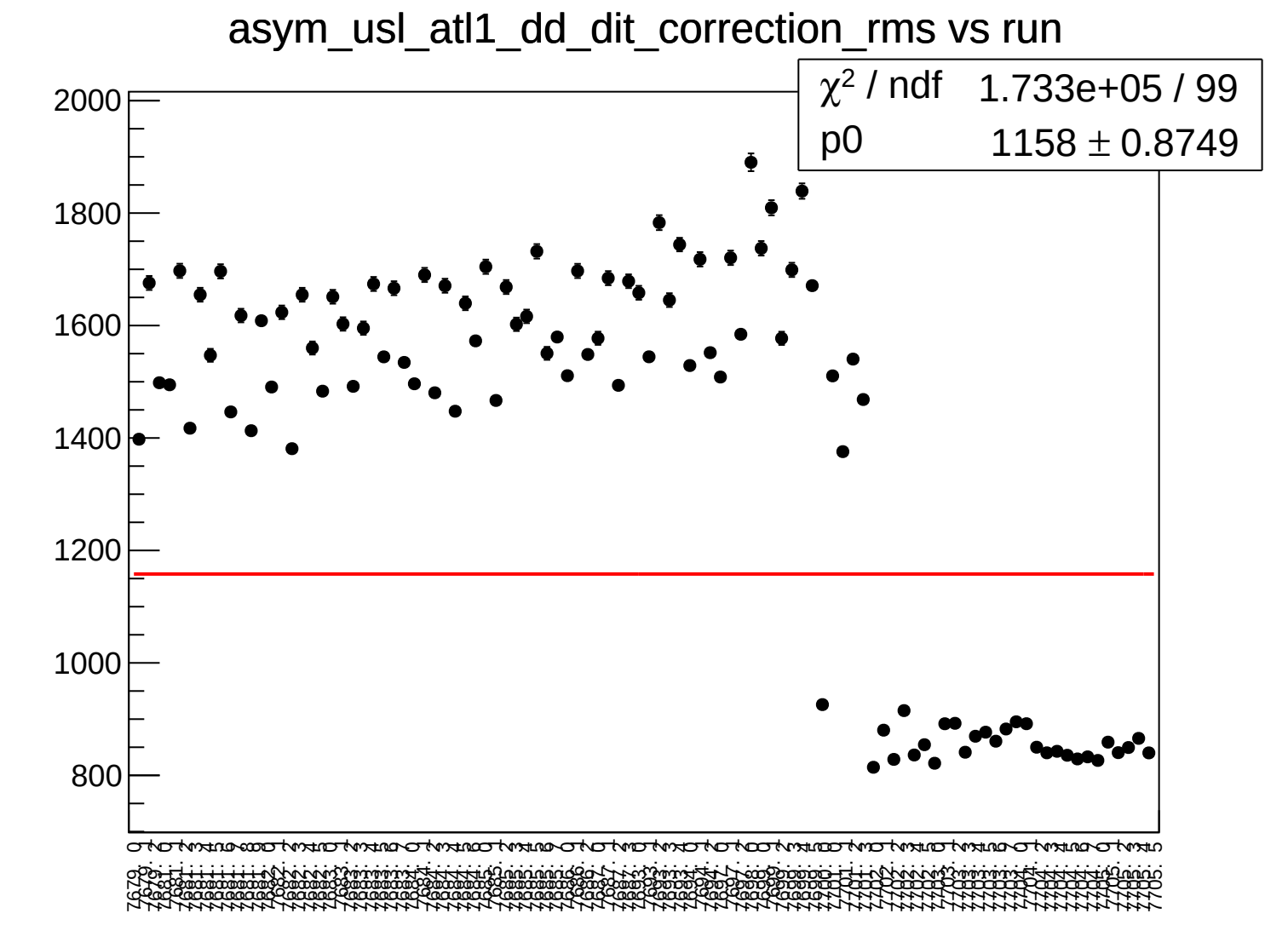

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.578e+05 / 99
p0 1175 ± 0.8838
2000
1800
1600
1400
1200
1000
800

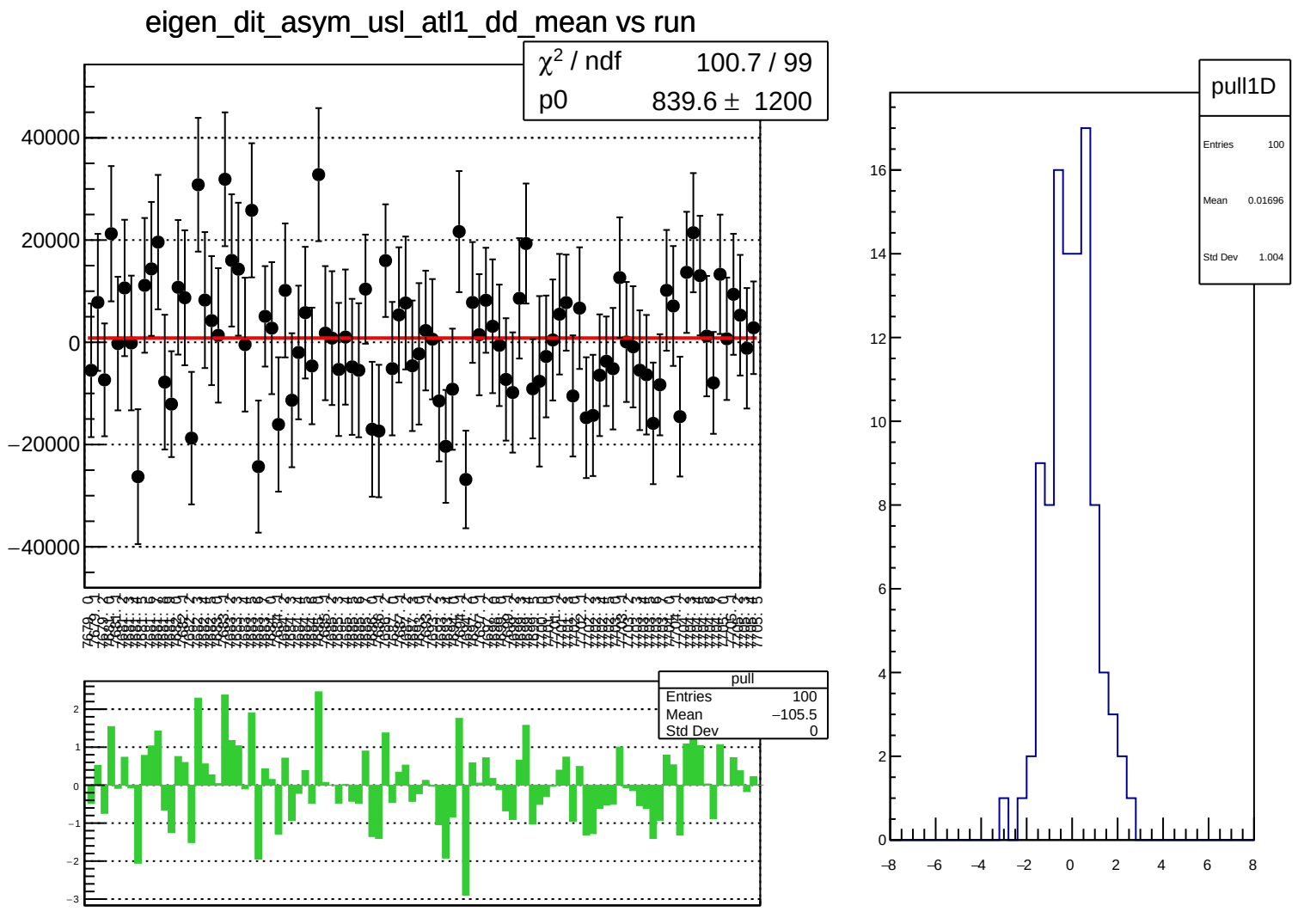

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 100.7 / 99
p0 839.6 ± 1200
40000
20000
0
−20000
−40000
pull
Entries 100
Mean −105.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean 0.01696
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

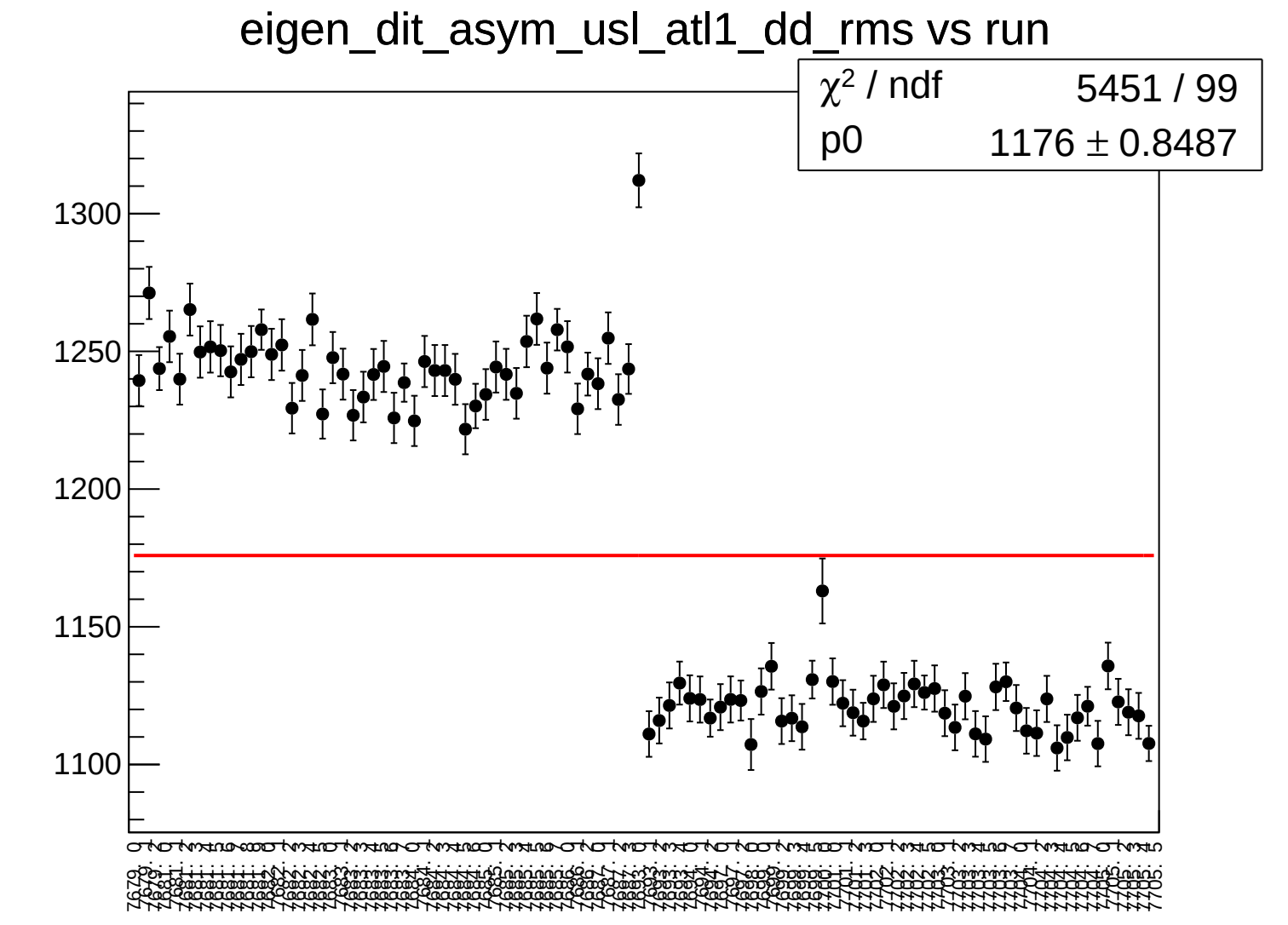

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 5451 / 99
p0 1176 ± 0.8487
1300
1250
1200
1150
1100

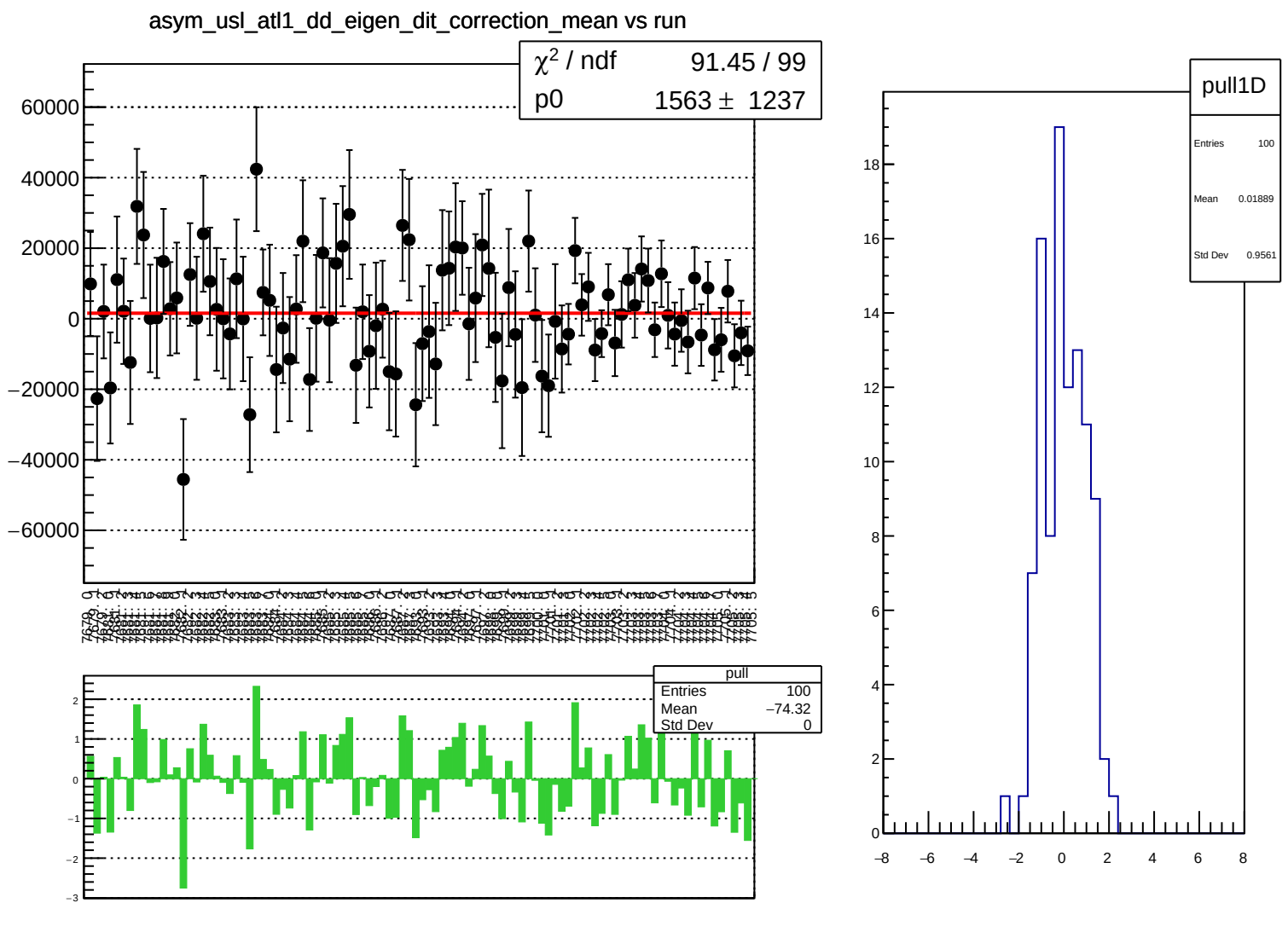

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 91.45 / 99
p0 1563 ± 1237
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −74.32
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 100
Mean 0.01889
Std Dev 0.9561
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 1.733e+05 / 99
p0 1158 ± 0.8749
2000
1800
1600
1400
1200
1000
800


eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 100.7 / 99
p0 839.6 ± 1200
40000
20000
0
−20000
−40000
pull
Entries 100
Mean −105.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean 0.01696
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 5451 / 99
p0 1176 ± 0.8487
1300
1250
1200
1150
1100


asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 91.45 / 99
p0 1563 ± 1237
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −74.32
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean 0.01889
Std Dev 0.9561
18
16
14
12
10
8
6
4
2
0
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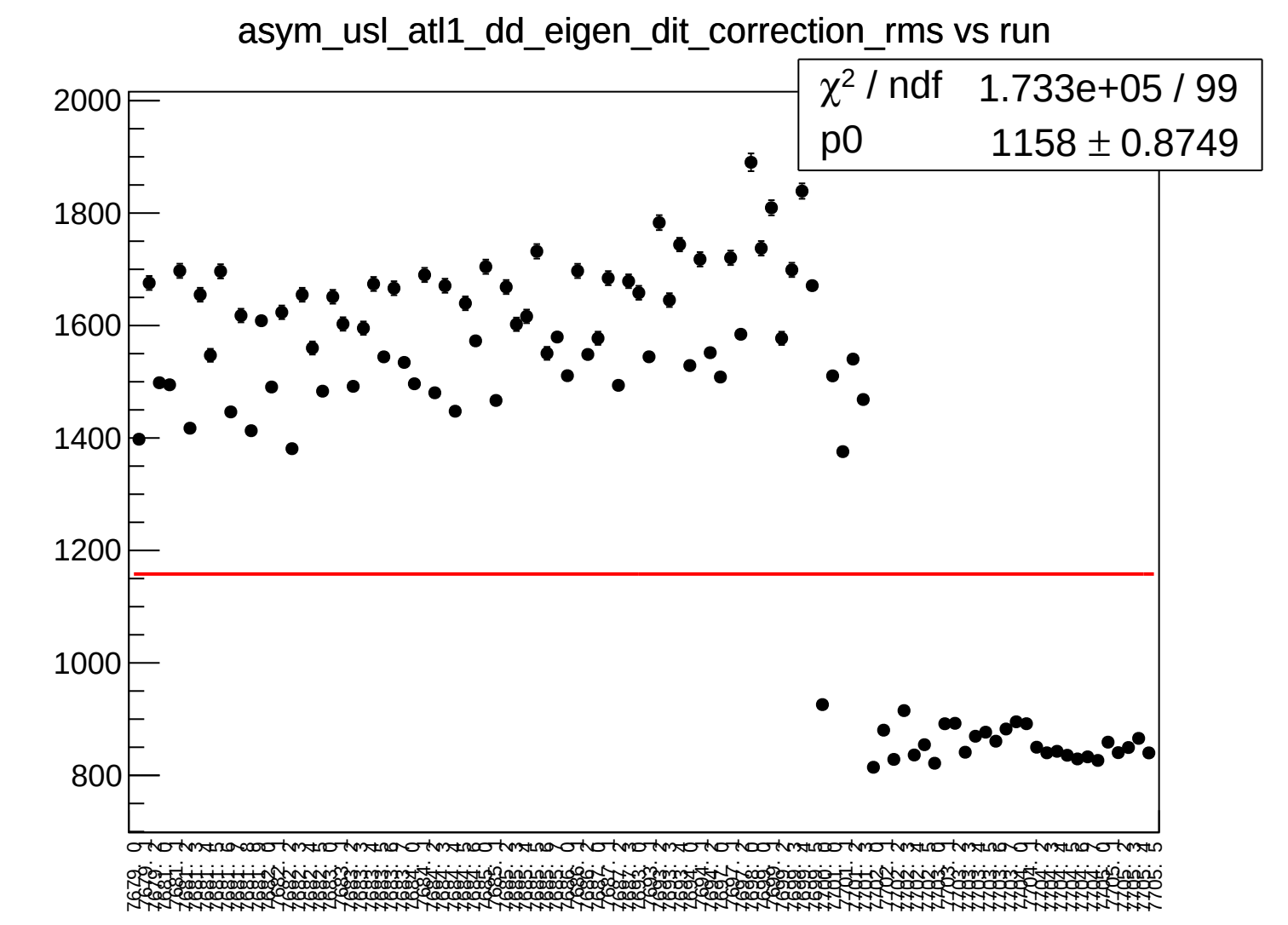
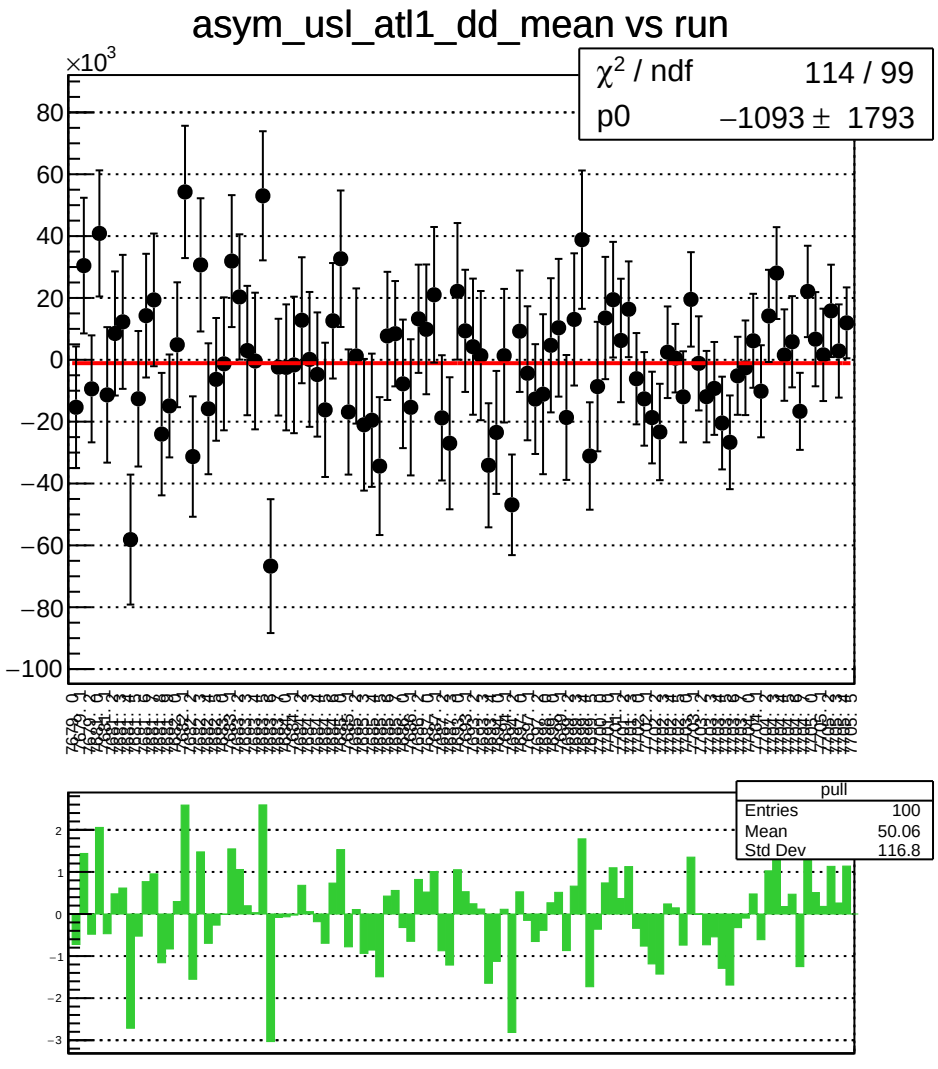
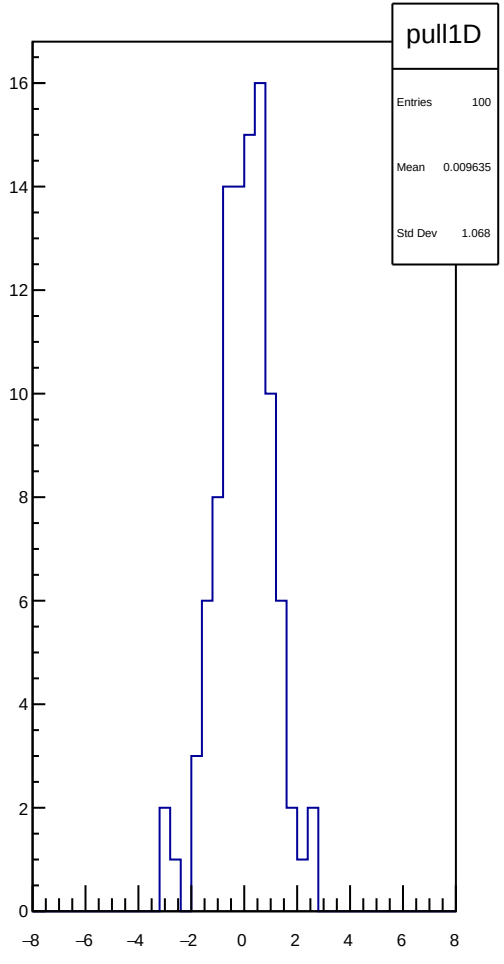
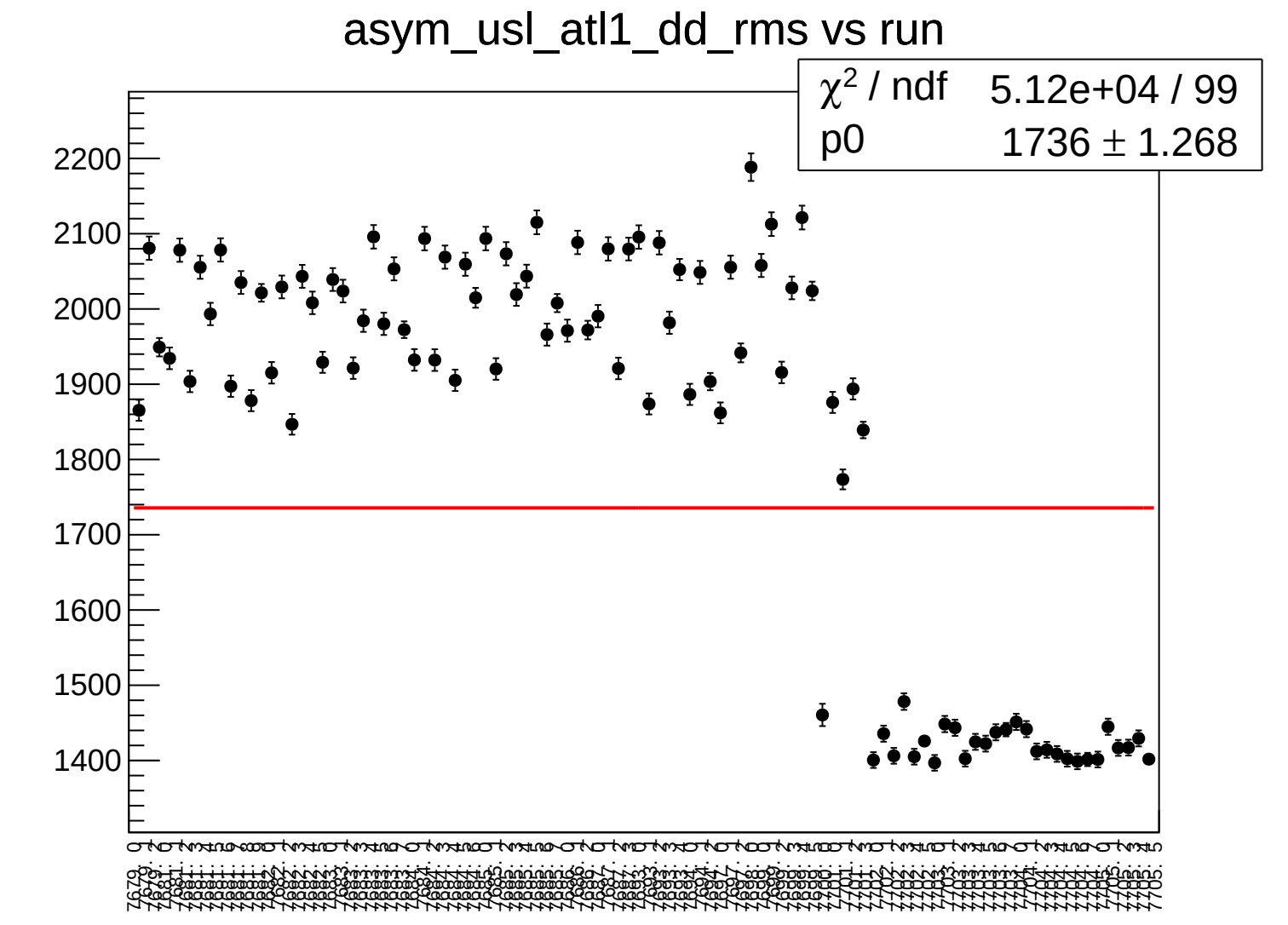
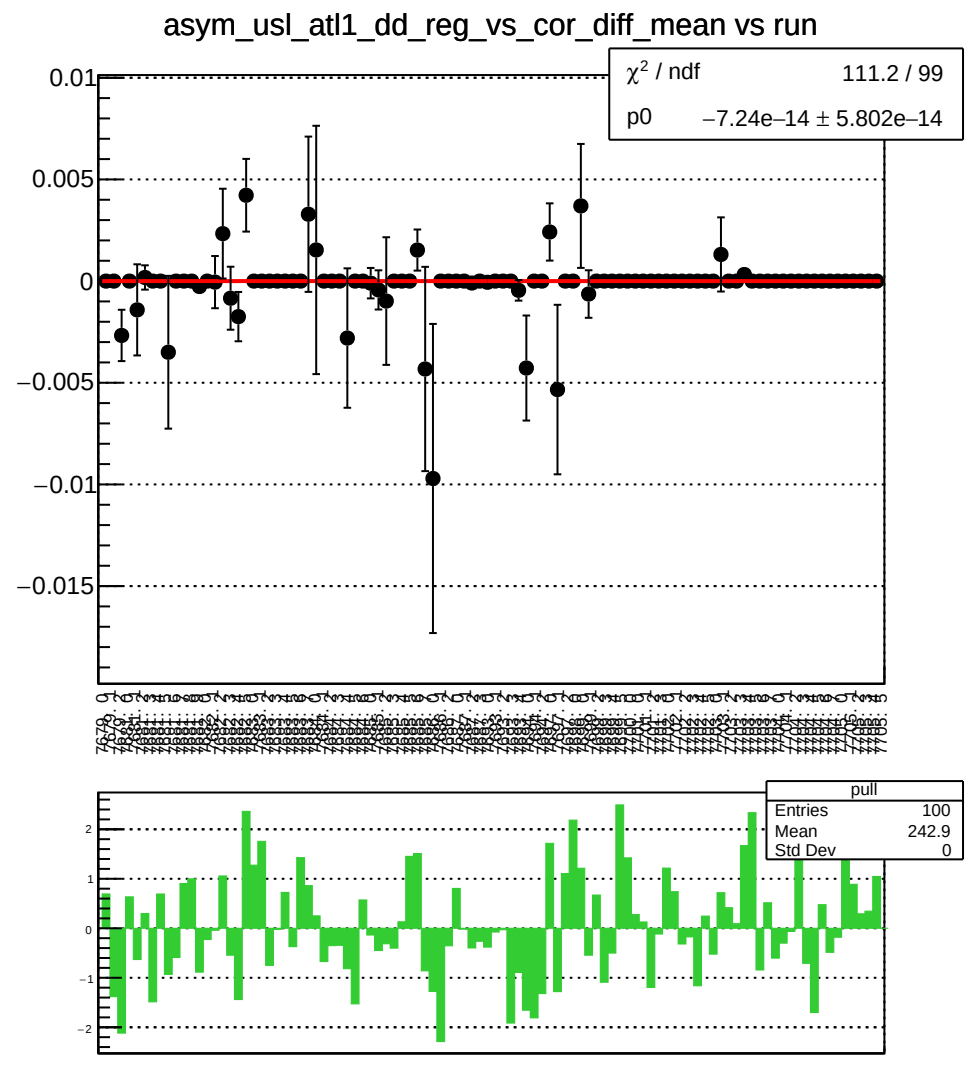
−6
−4
−2
0
2
4
6
8

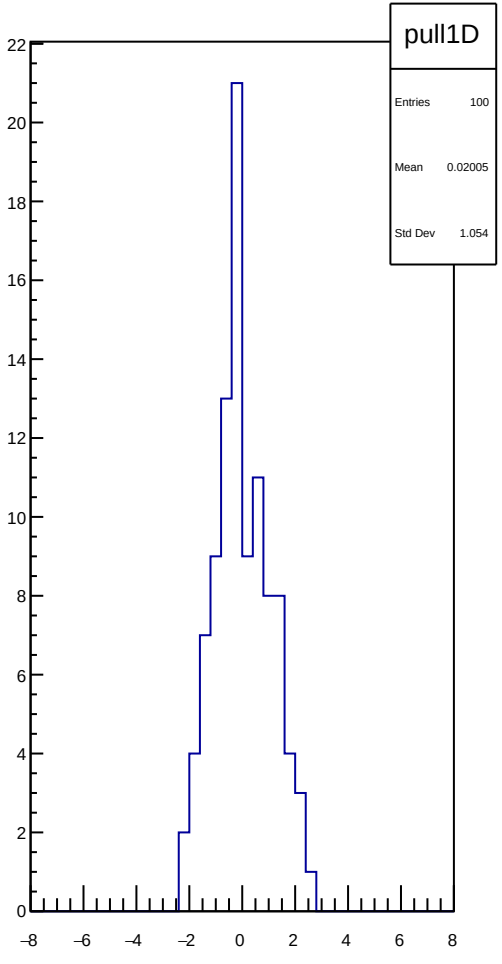

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.733e+05 / 99
p0 1158 ± 0.8749
2000
1800
1600
1400
1200
1000
800

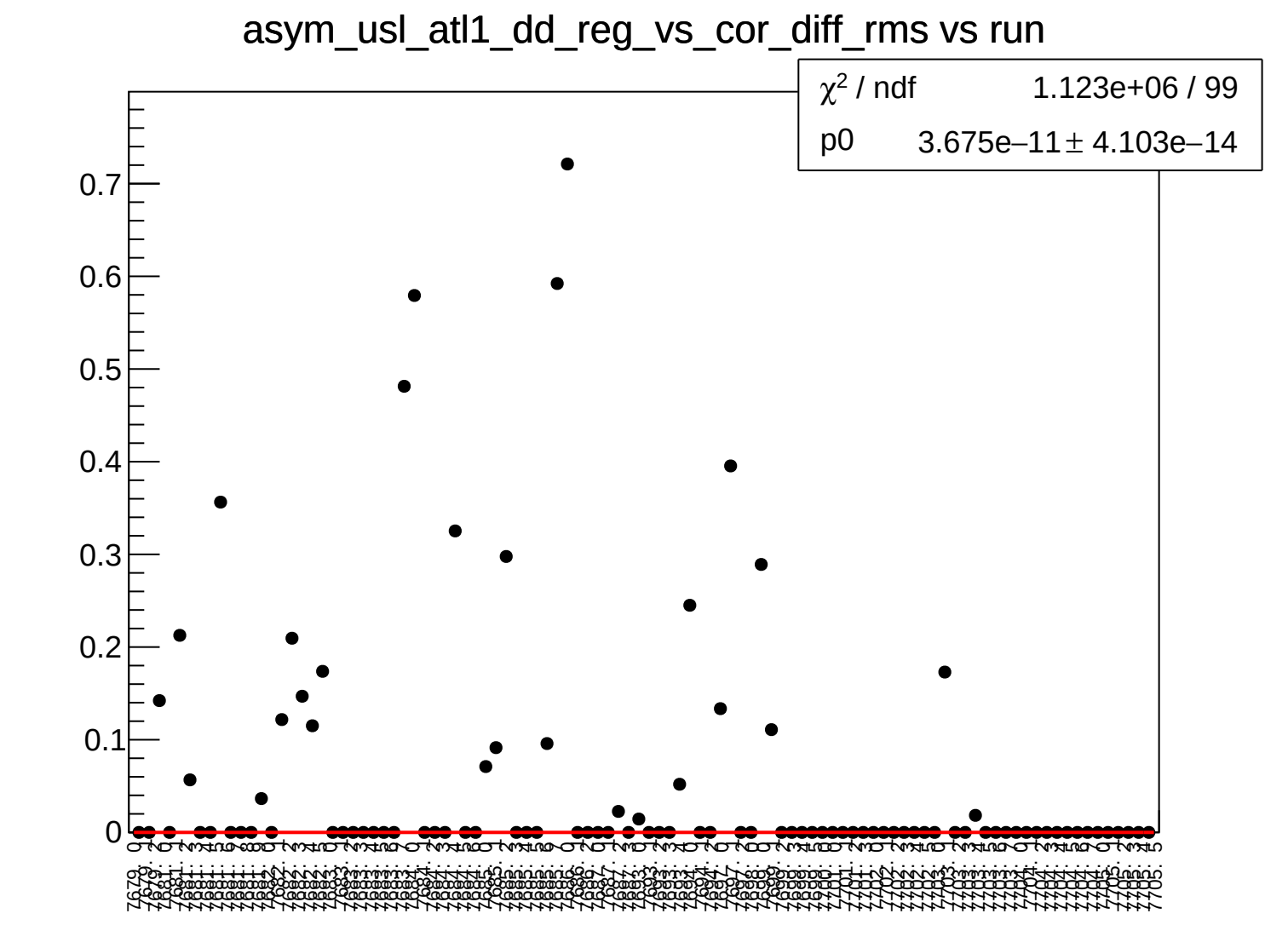

asym_usl_atl1_dd_mean vs run
χ² / ndf 114 / 99
p0 −1093 ± 1793
×10³
pull
Entries 100
Mean 50.06
Std Dev 116.8

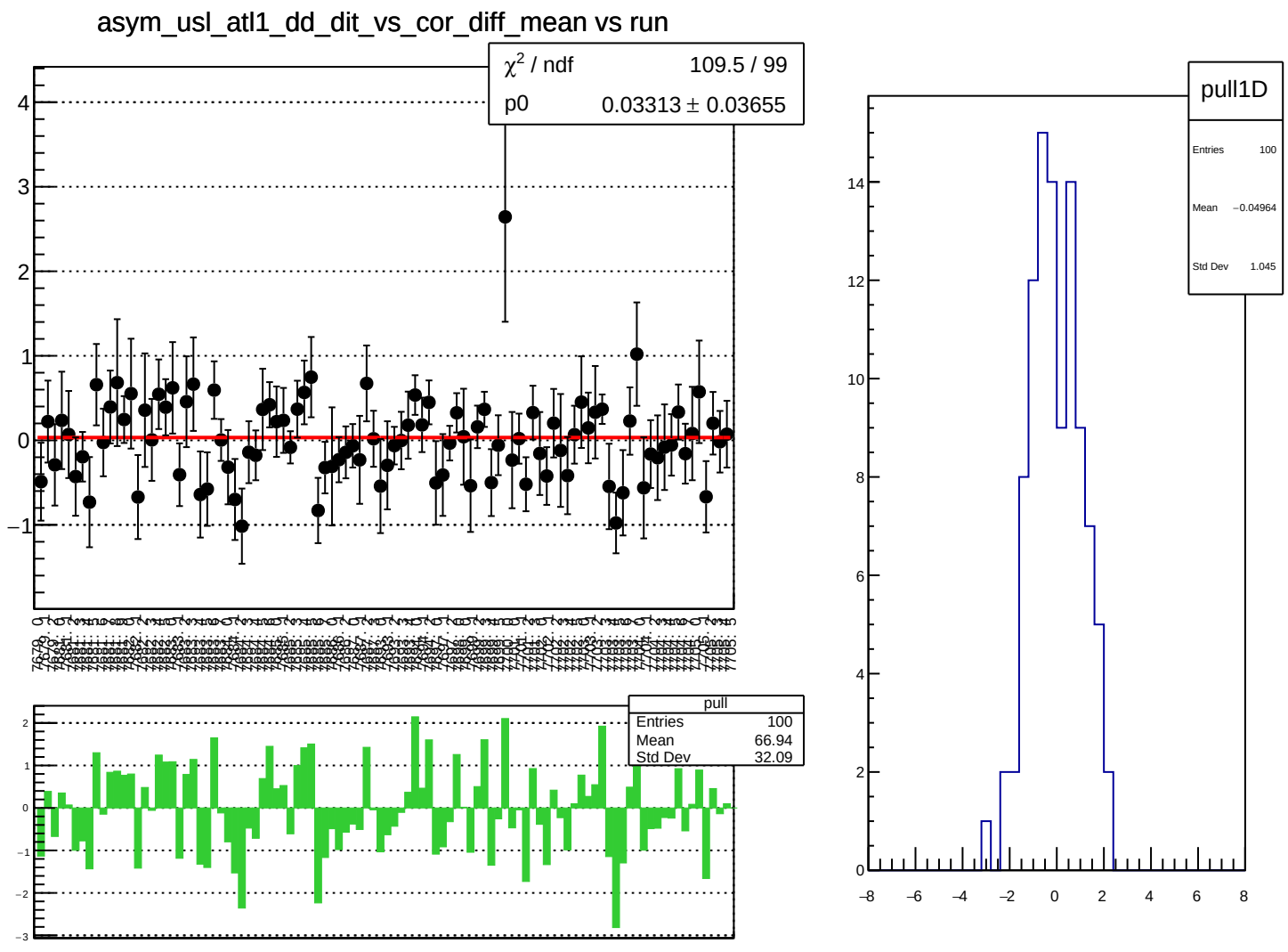

pull1D
Entries 100
Mean 0.009635
Std Dev 1.068

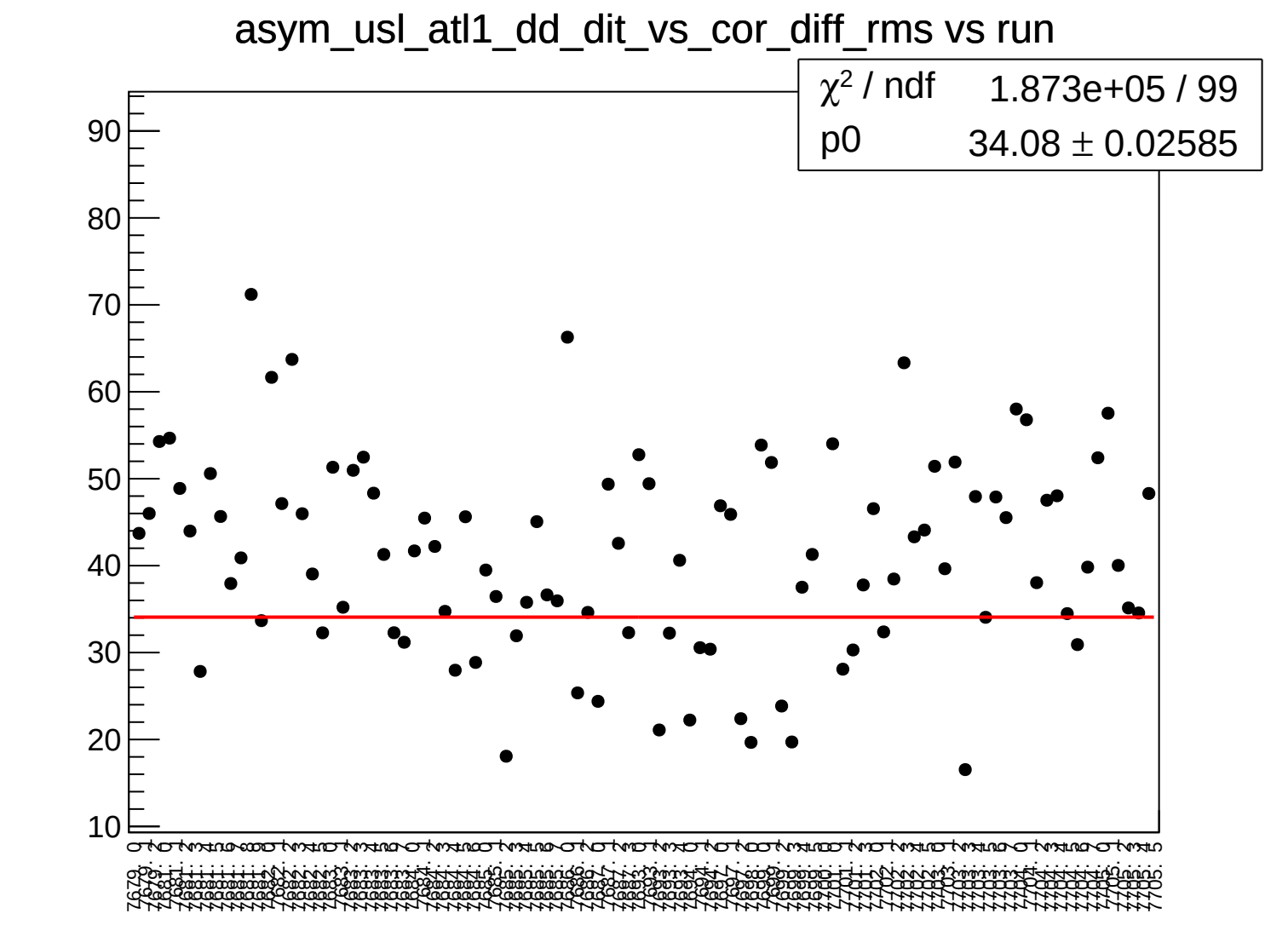

asym_usl_atl1_dd_rms vs run
χ² / ndf 5.12e+04 / 99
p0 1736 ± 1.268
2200
2100
2000
1900
1800
1700
1600
1500
1400

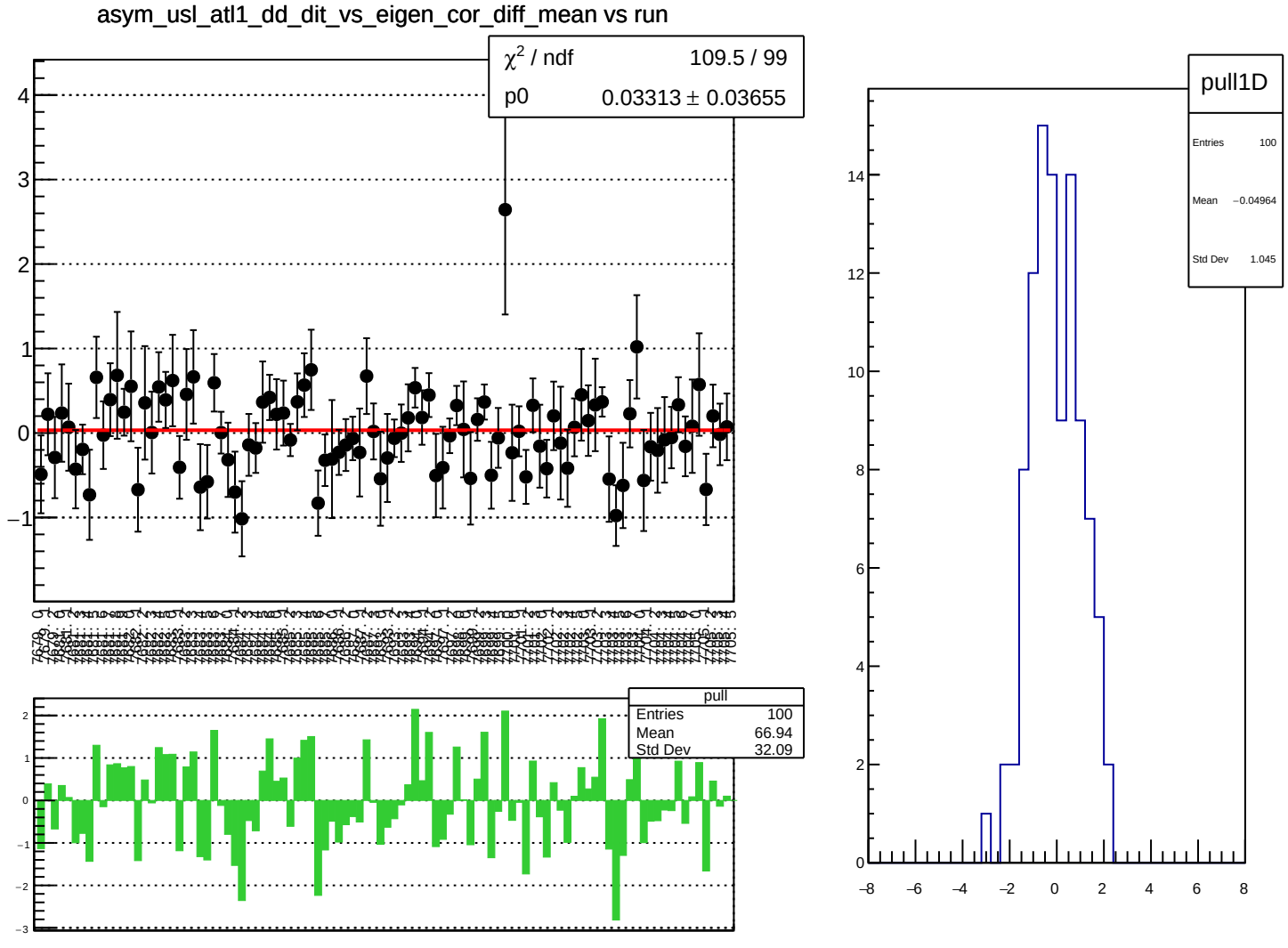

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 111.2 / 99
p0 −7.24e−14 ± 5.802e−14
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 100
Mean 242.9
Std Dev 0
2
1
0
−1
−2

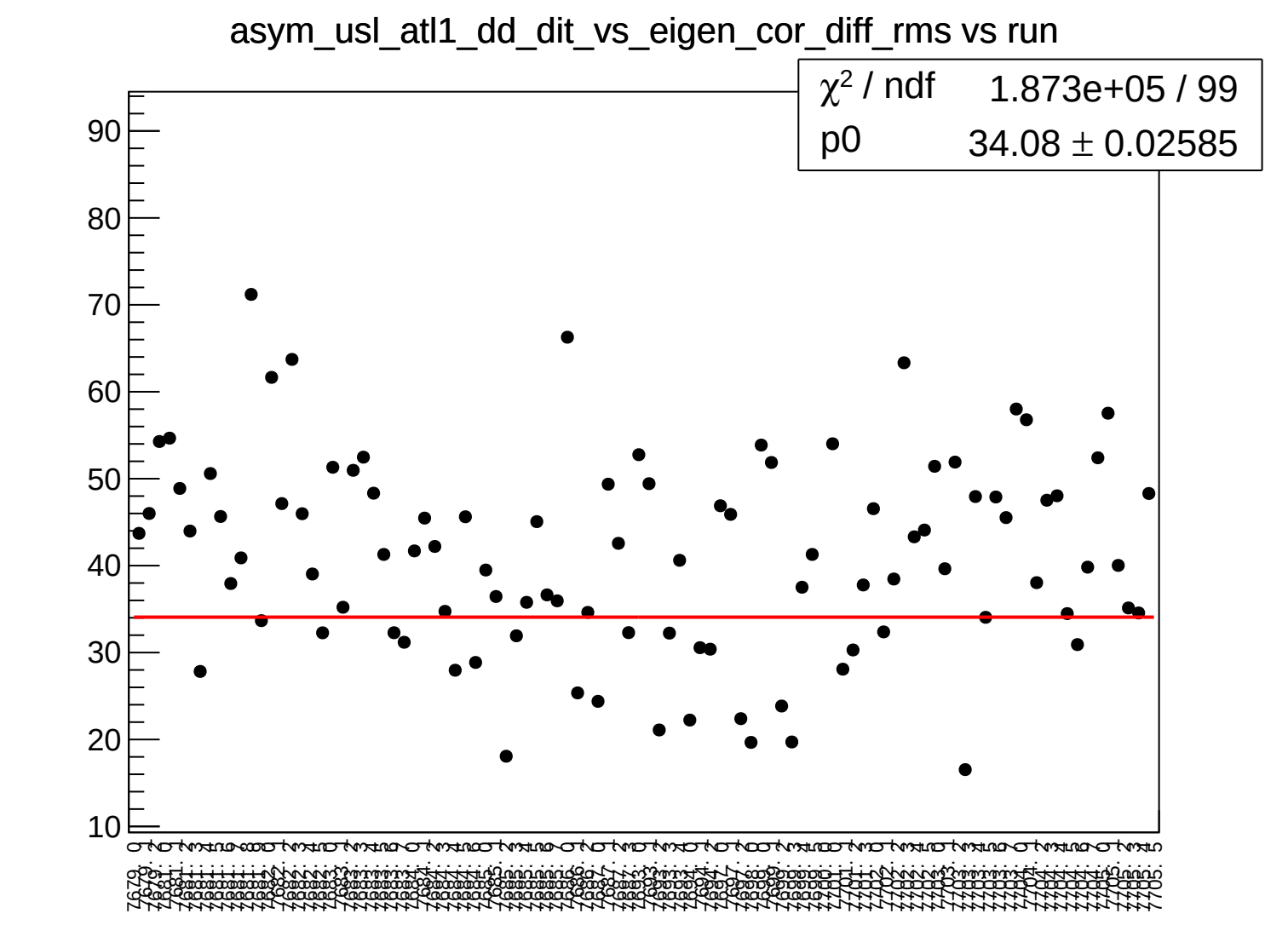

pull1D
Entries 100
Mean 0.02005
Std Dev 1.054
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

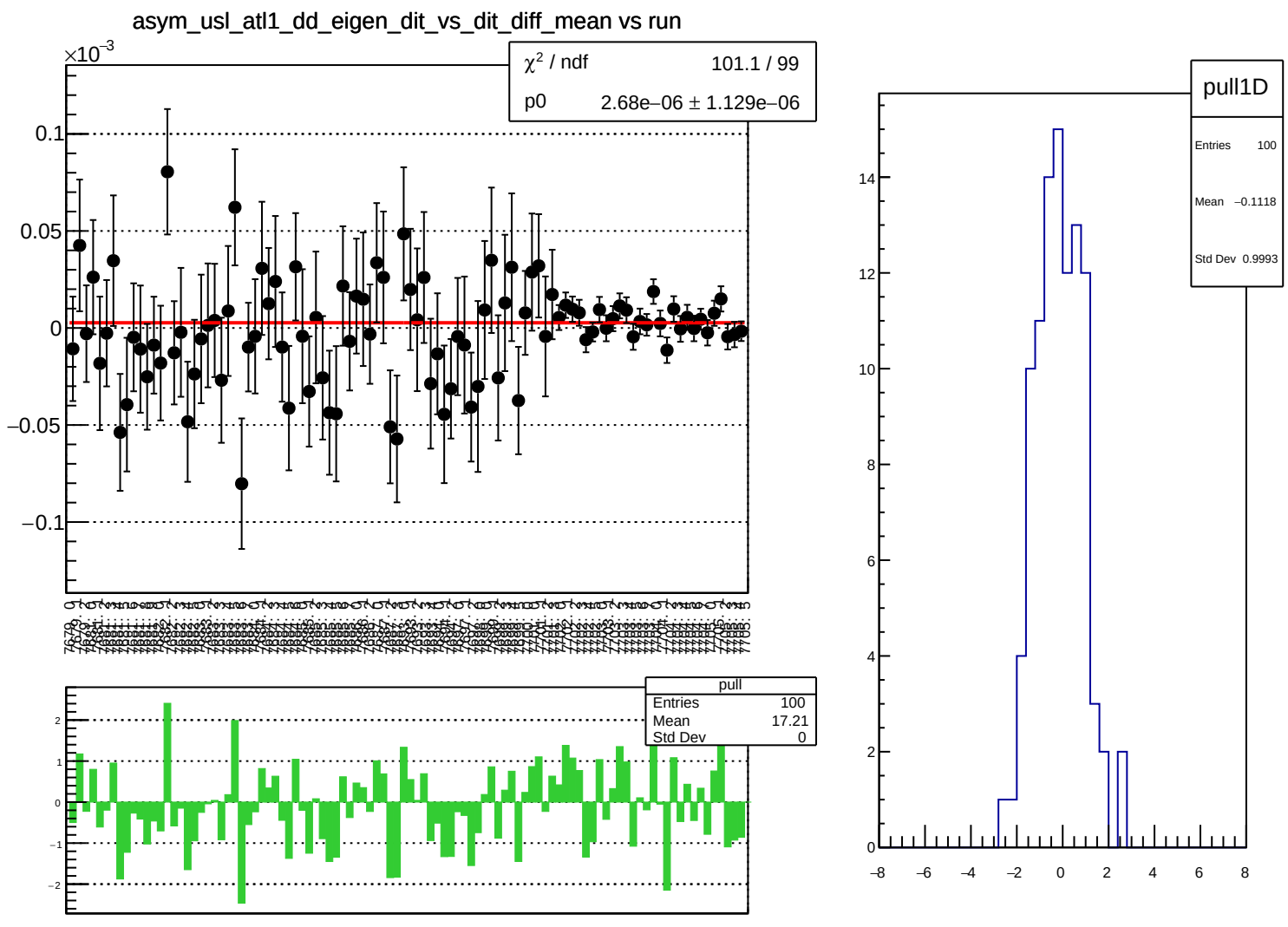

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.123e+06 / 99
p0 3.675e−11 ± 4.103e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

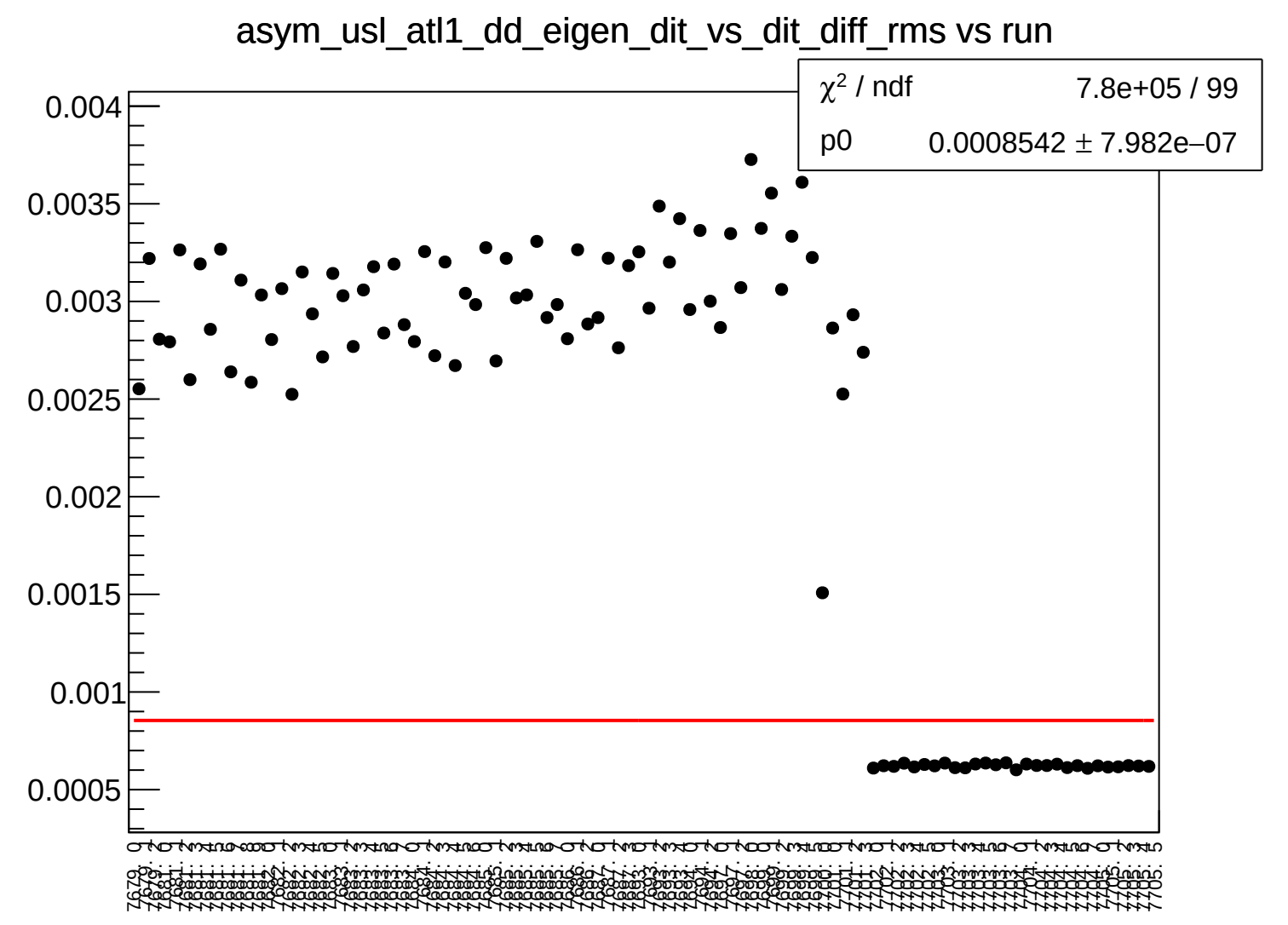

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 109.5 / 99
p0 0.03313 ± 0.03655
pull
Entries 100
Mean 66.94
Std Dev 32.09
pull1D
Entries 100
Mean −0.04964
Std Dev 1.045

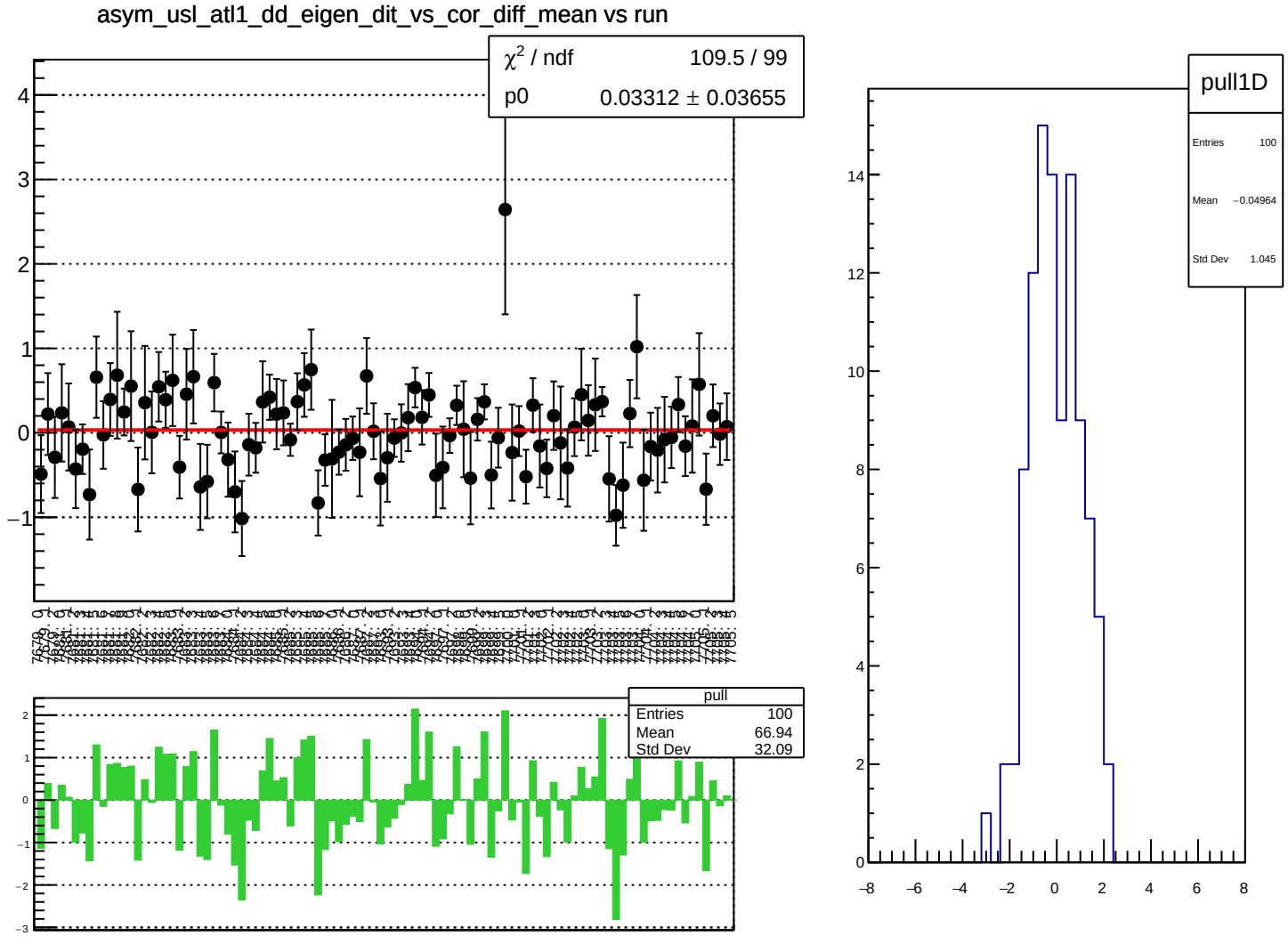

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.873e+05 / 99
p0 34.08 ± 0.02585
90
80
70
60
50
40
30
20
10

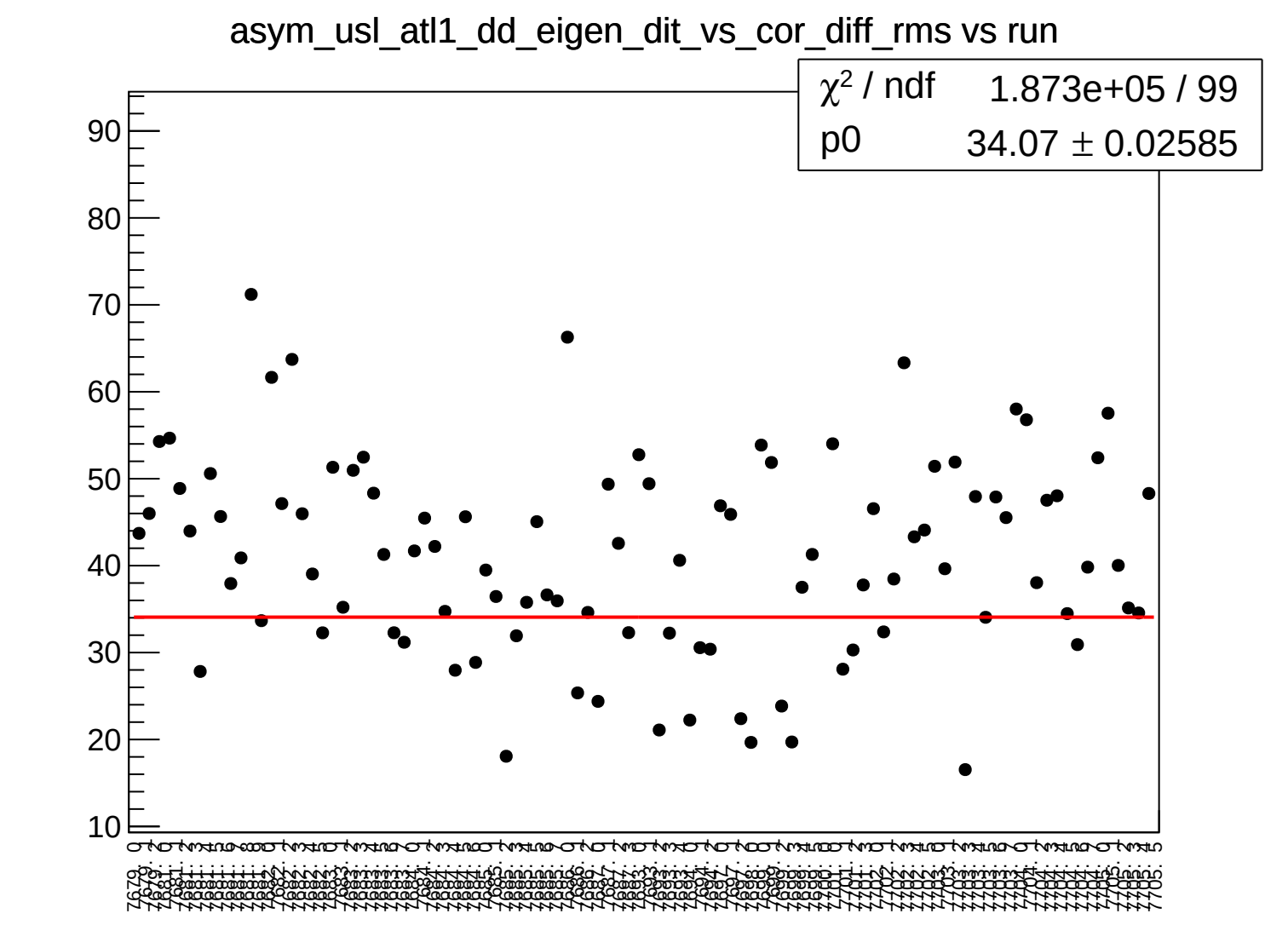

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.5 / 99
p0 0.03313 ± 0.03655
pull
Entries 100
Mean 66.94
Std Dev 32.09
pull1D
Entries 100
Mean −0.04964
Std Dev 1.045

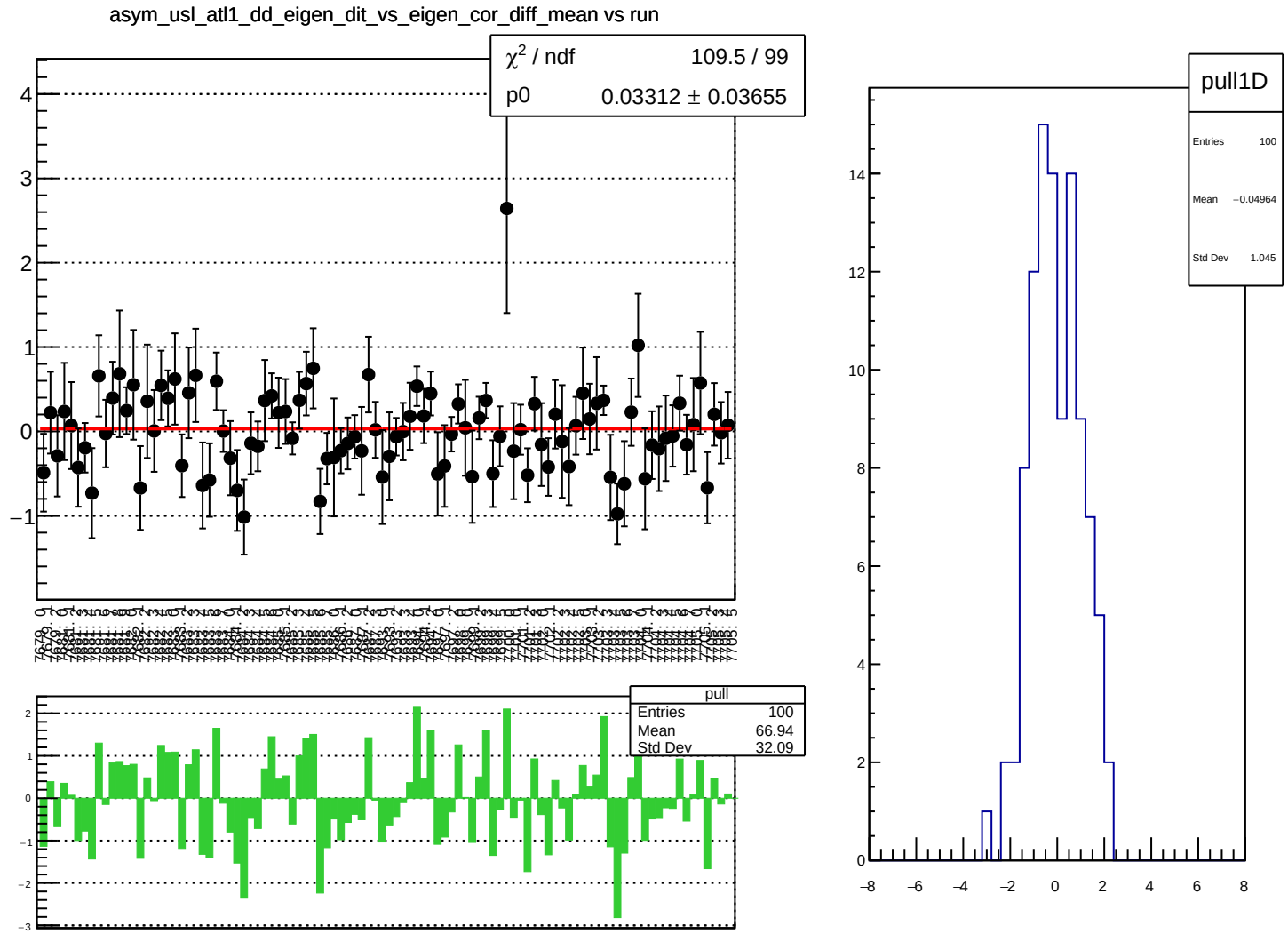

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.873e+05 / 99
p0 34.08 ± 0.02585
90
80
70
60
50
40
30
20
10

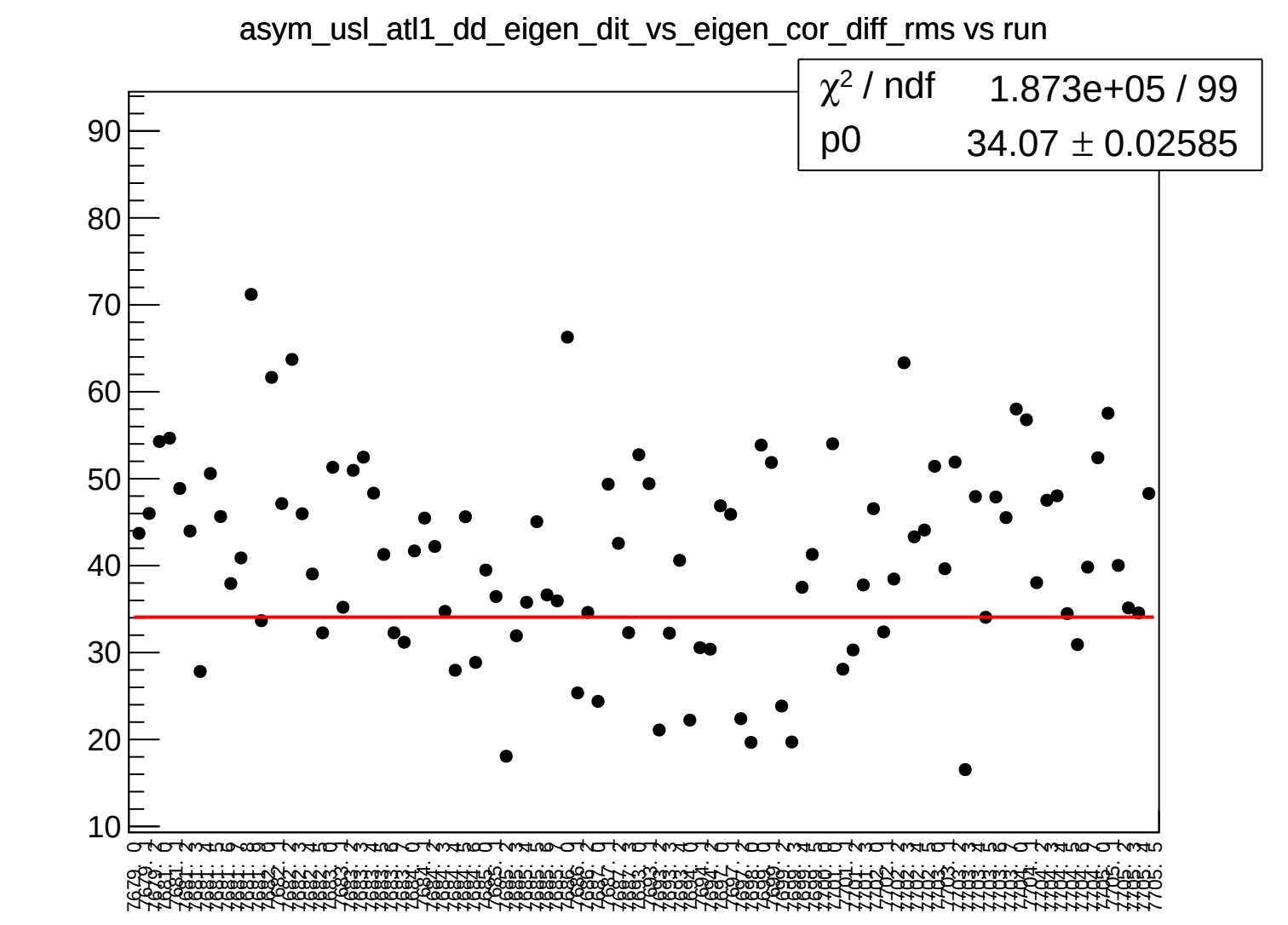

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.1 / 99
p0 2.68e−06 ± 1.129e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 100
Mean 17.21
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.1118
Std Dev 0.9993
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

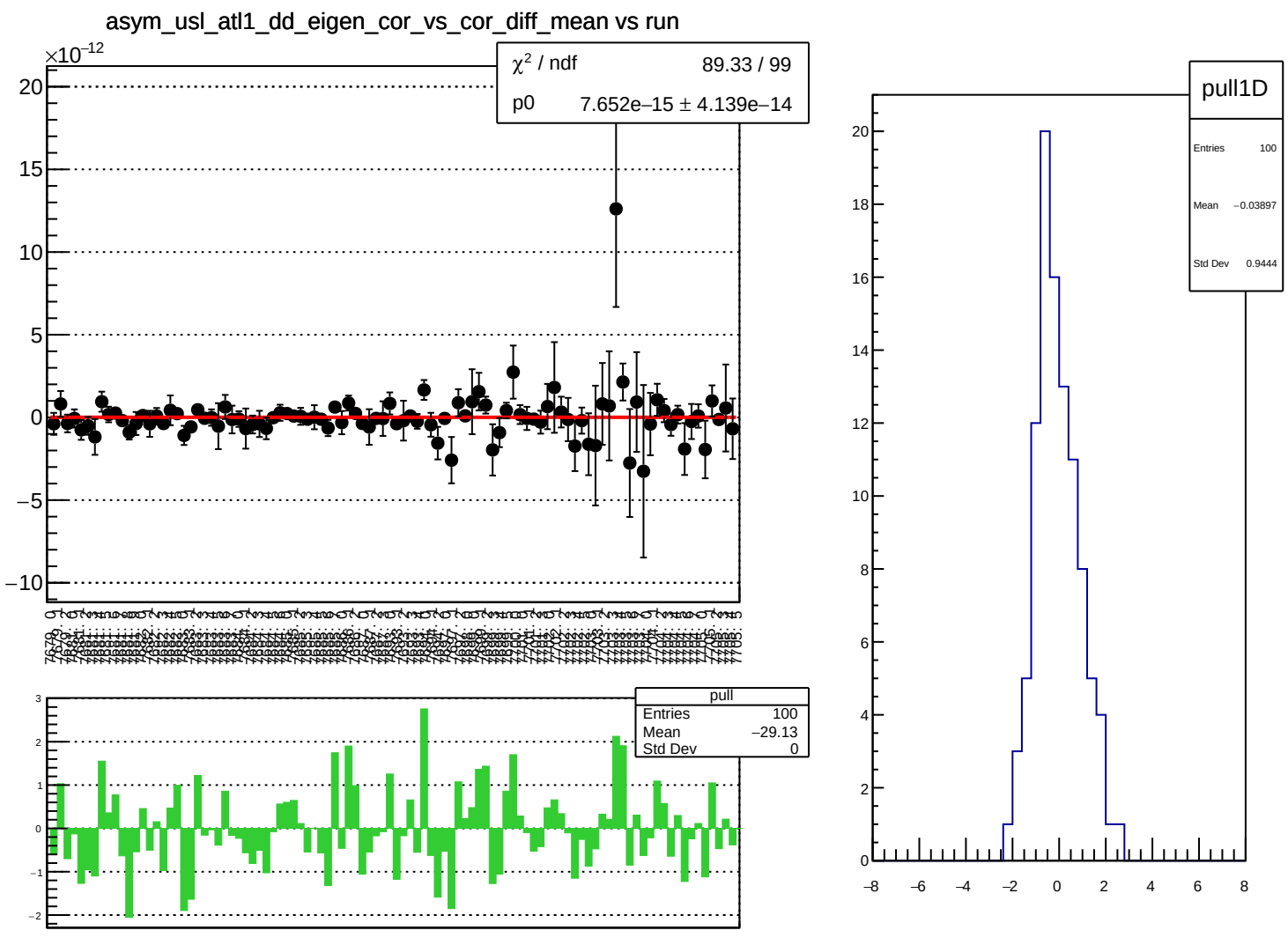

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.8e+05 / 99
p0 0.0008542 ± 7.982e−07
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

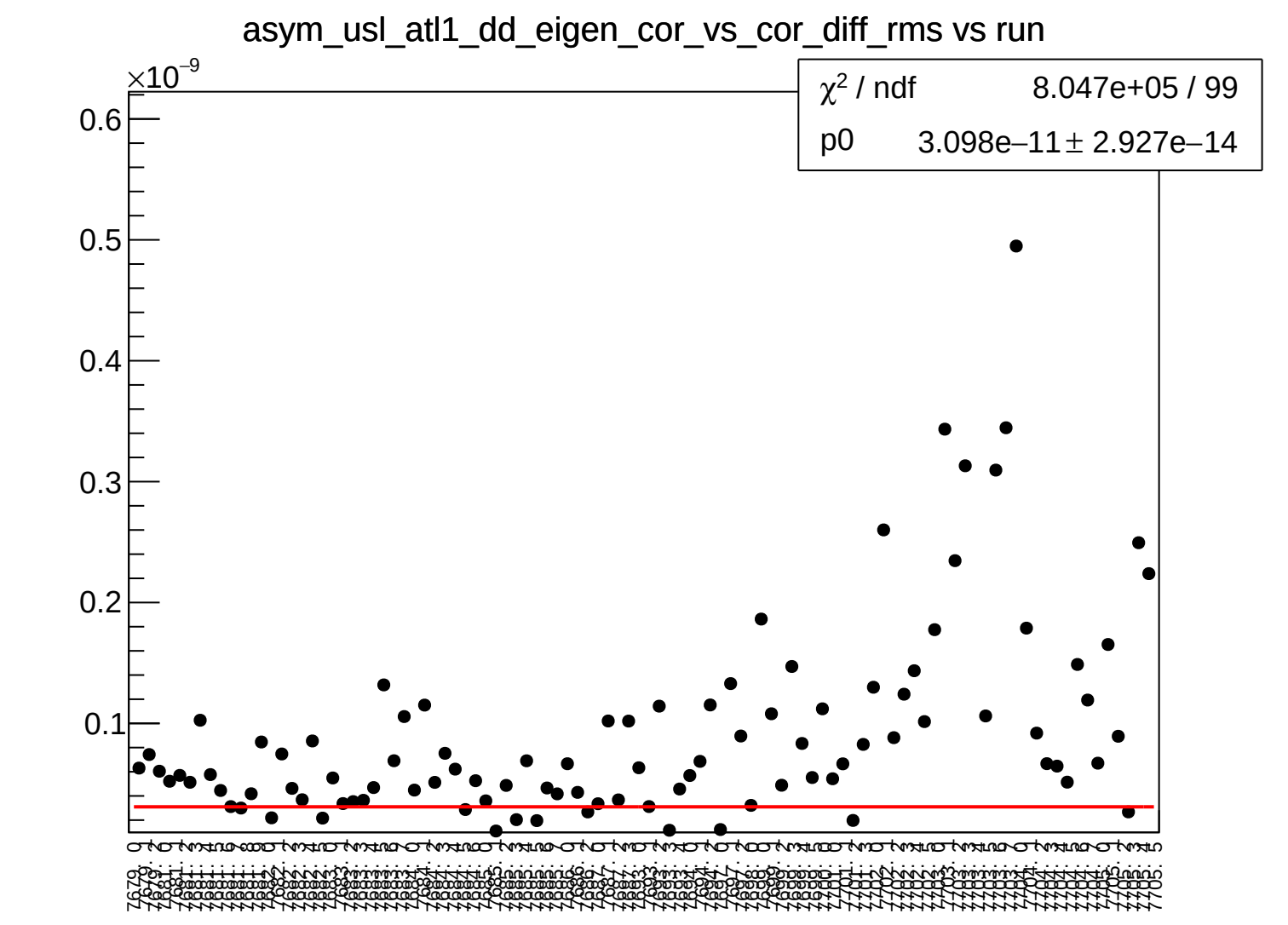

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.5 / 99
p0 0.03312 ± 0.03655
pull
Entries 100
Mean 66.94
Std Dev 32.09
pull1D
Entries 100
Mean −0.04964
Std Dev 1.045

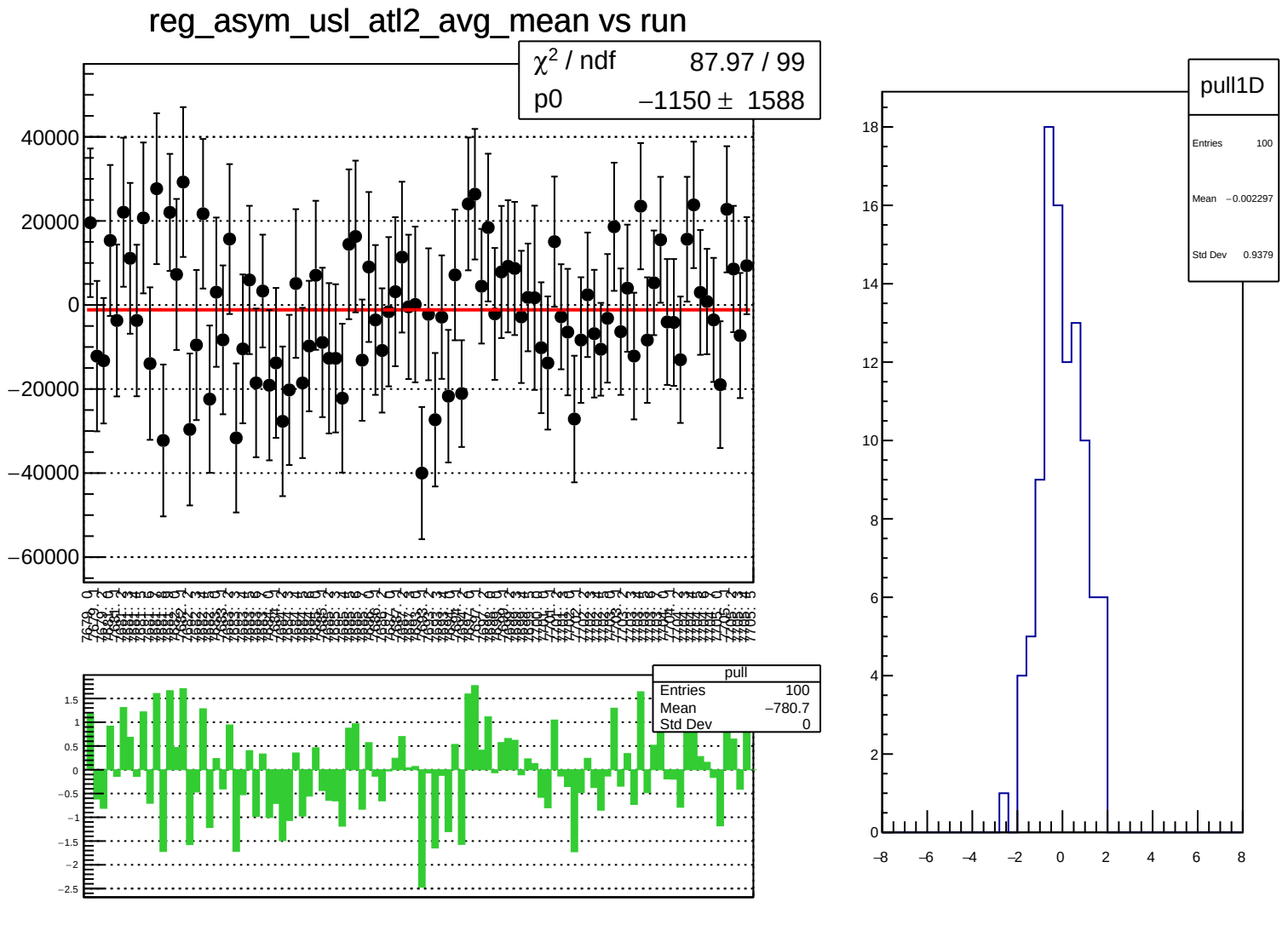

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.873e+05 / 99
p0 34.07 ± 0.02585
90
80
70
60
50
40
30
20
10

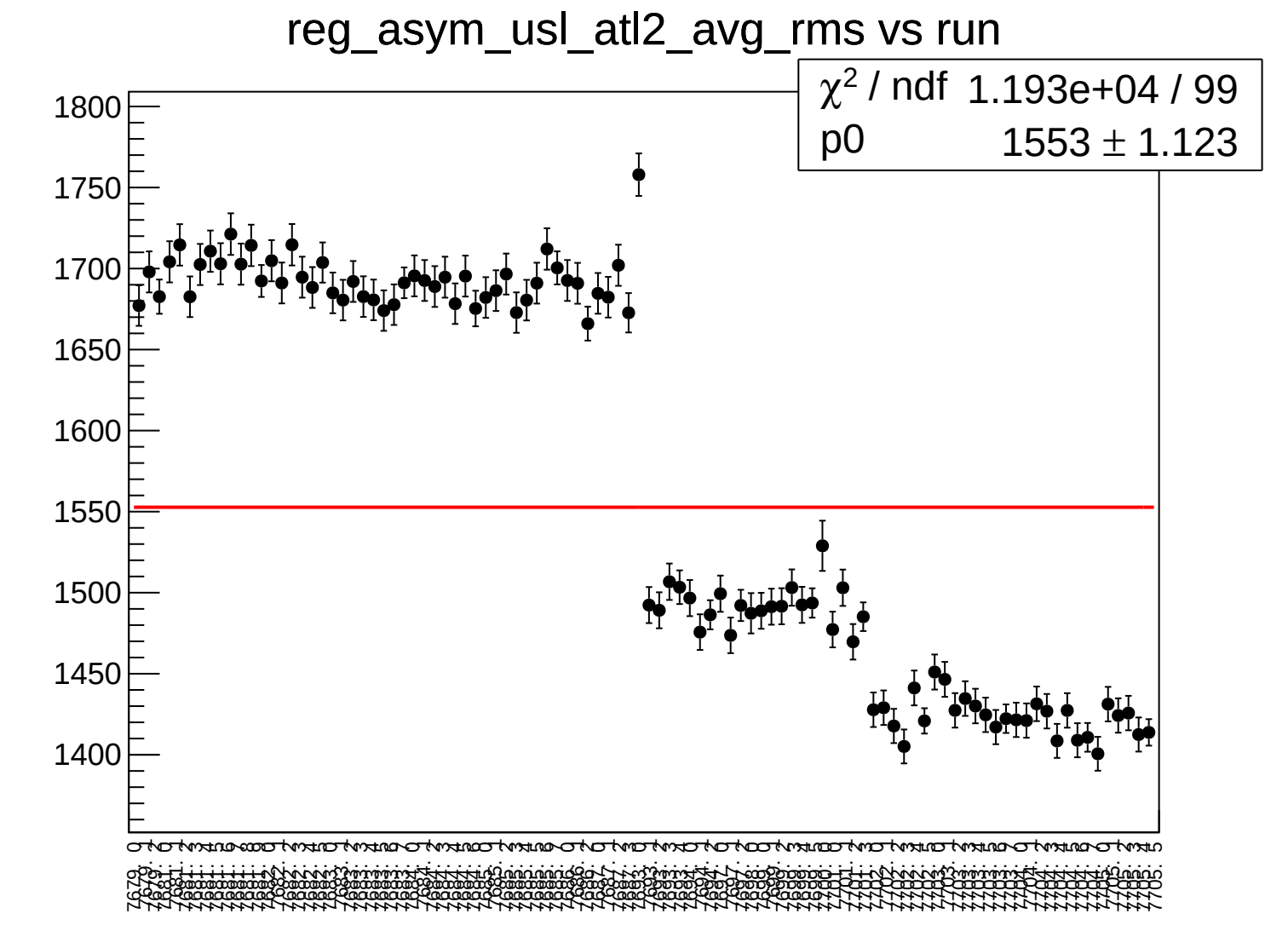

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.5 / 99
p0 0.03312 ± 0.03655
pull
Entries 100
Mean 66.94
Std Dev 32.09
pull1D
Entries 100
Mean −0.04964
Std Dev 1.045

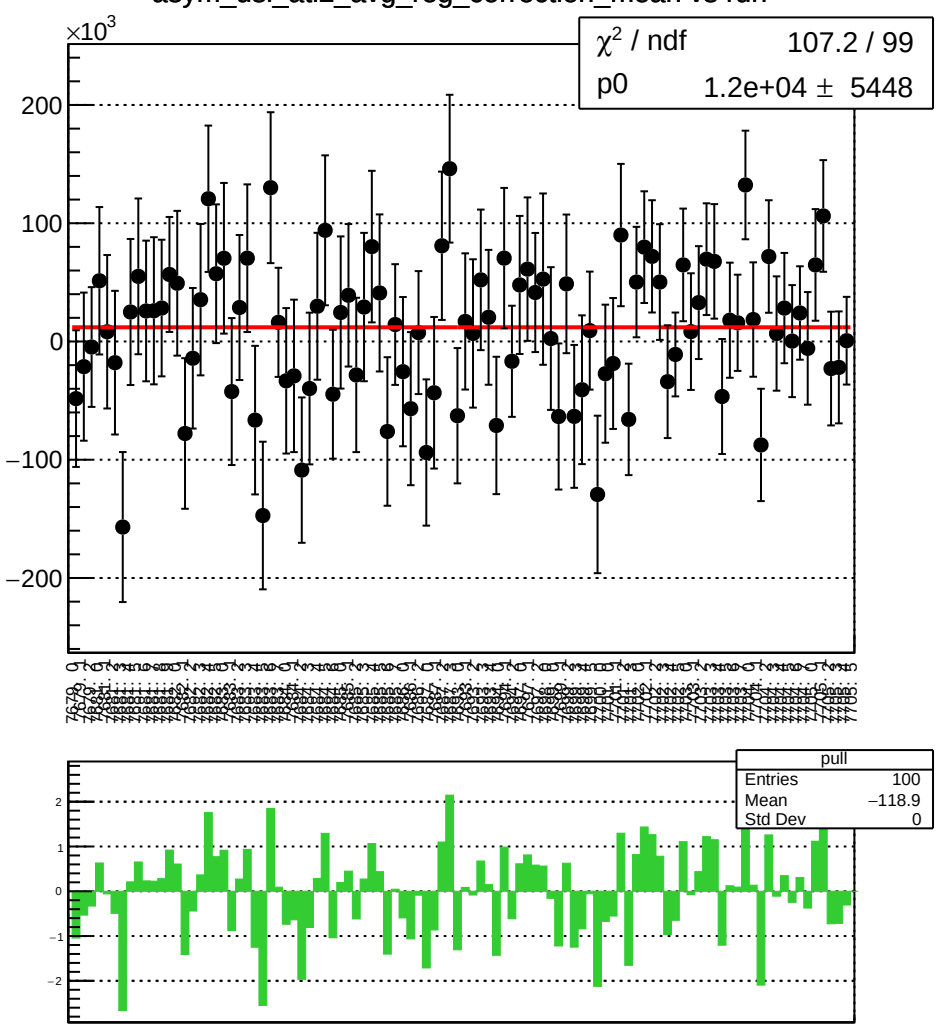

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.873e+05 / 99
p0 34.07 ± 0.02585
90
80
70
60
50
40
30
20
10

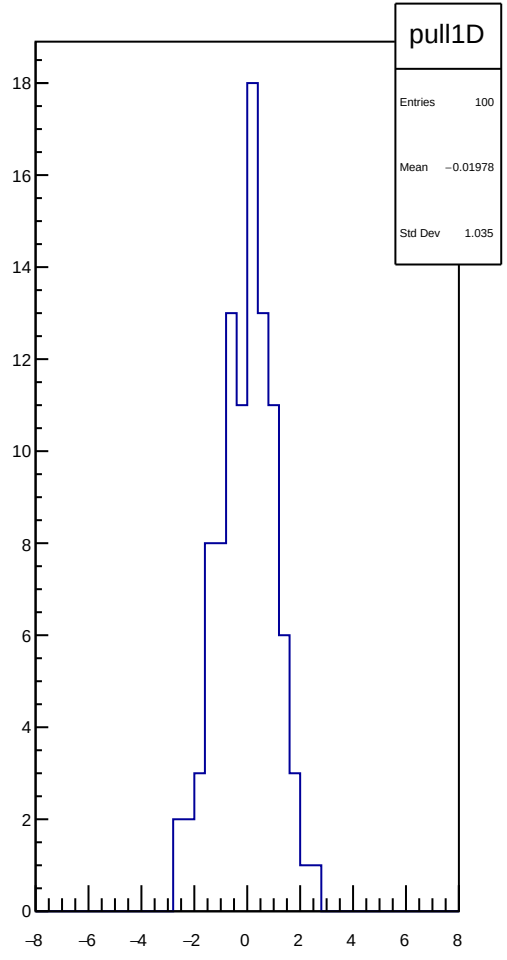

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 89.33 / 99
p0 7.652e−15 ± 4.139e−14
pull
Entries 100
Mean −29.13
Std Dev 0
pull1D
Entries 100
Mean −0.03897
Std Dev 0.9444

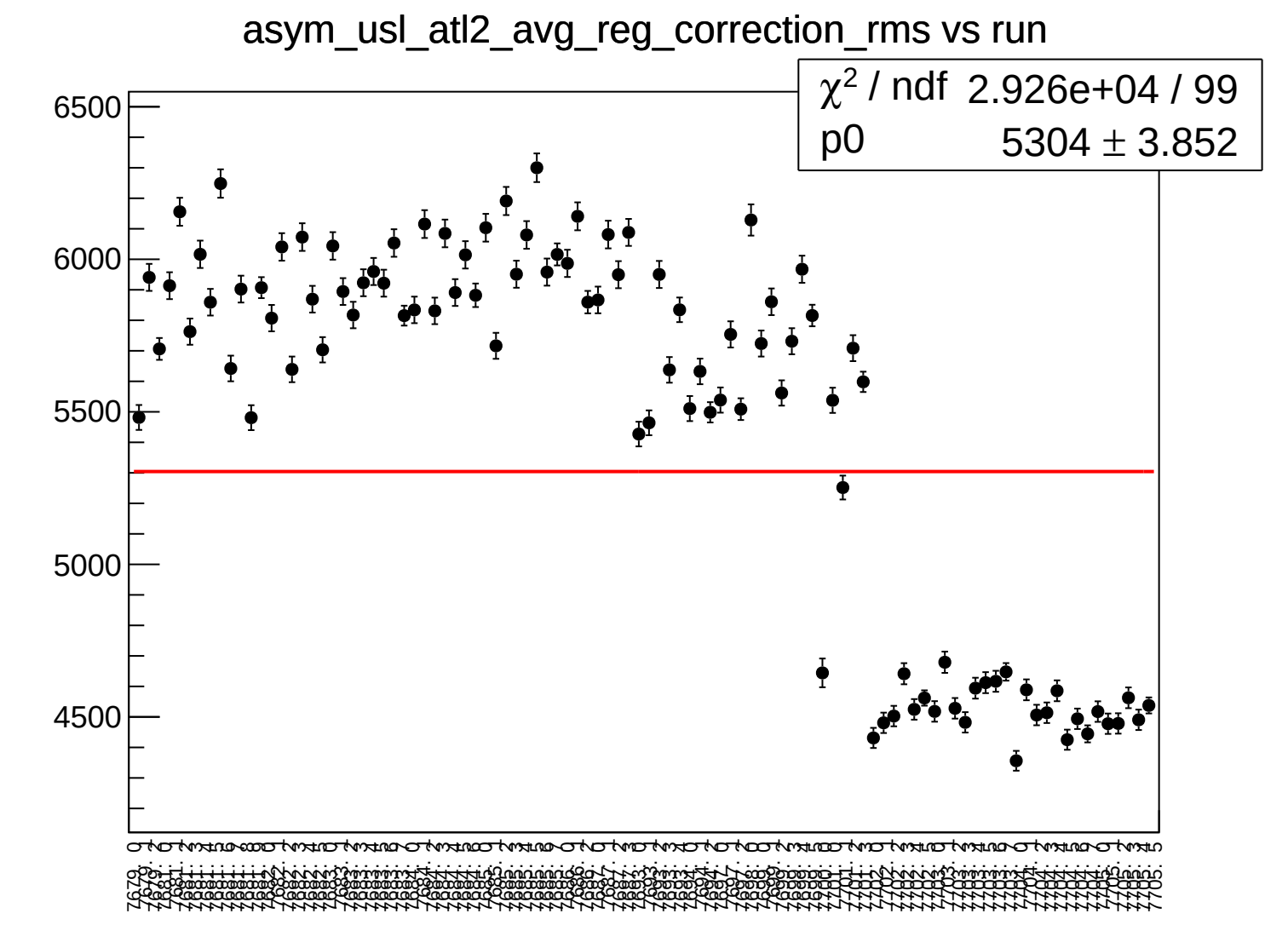

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.047e+05 / 99
p0 3.098e−11 ± 2.927e−14
0.6
0.5
0.4
0.3
0.2
0.1

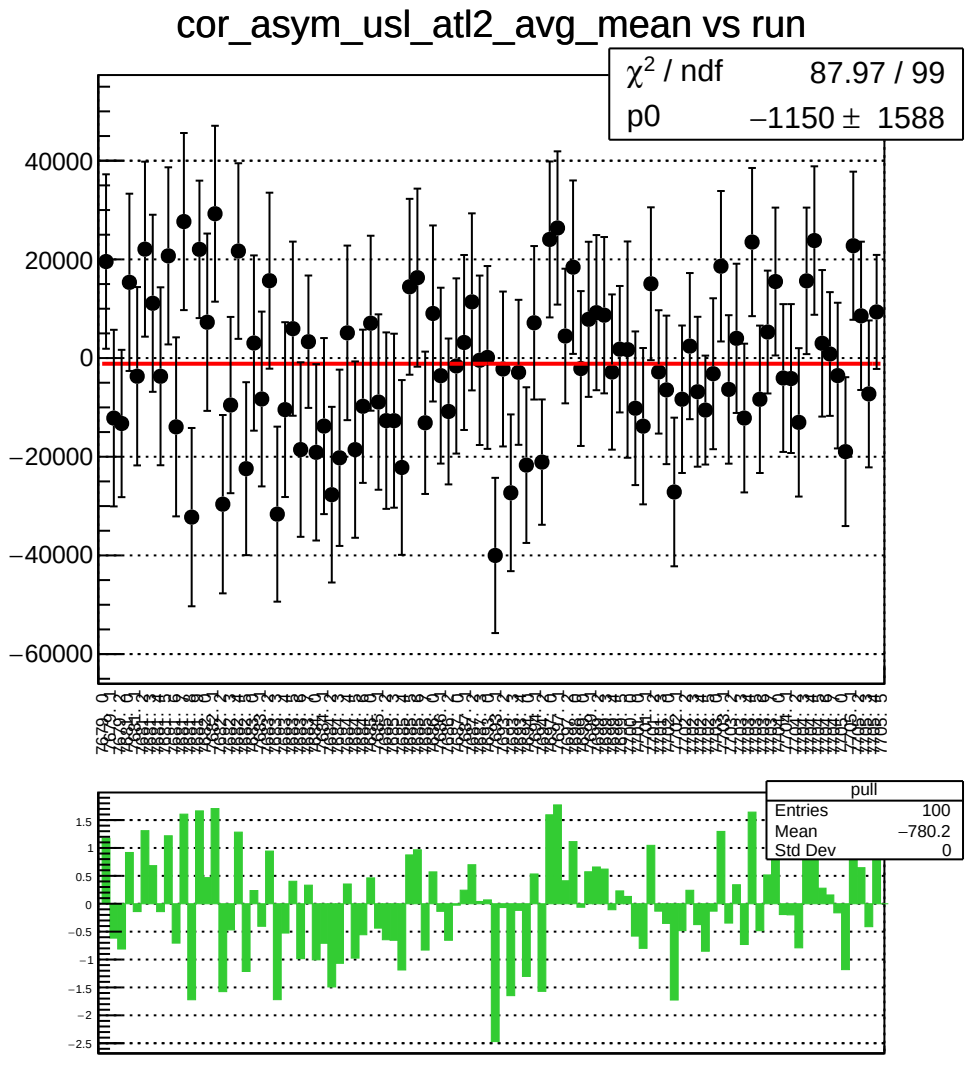

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 87.97 / 99
p0 −1150 ± 1588
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −780.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 100
Mean −0.002297
Std Dev 0.9379
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

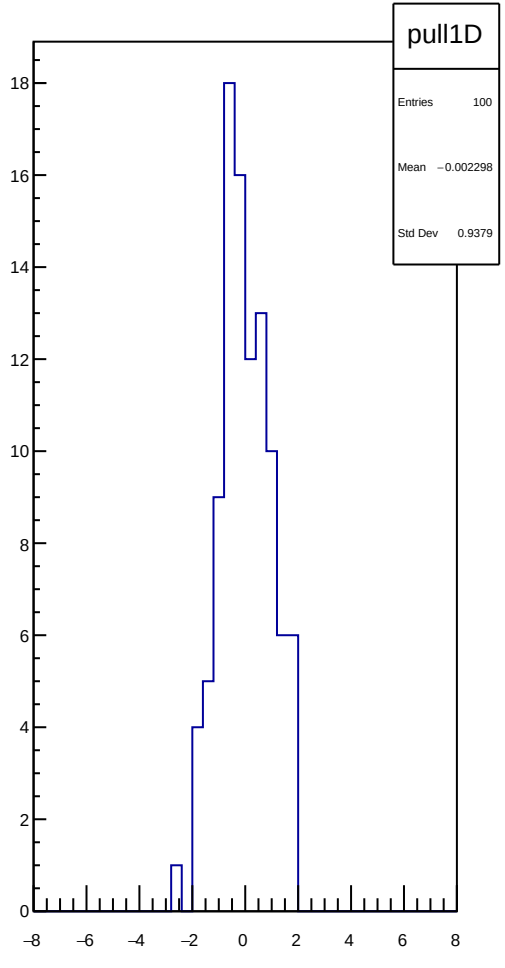

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 1.193e+04 / 99
p0 1553 ± 1.123
1800
1750
1700
1650
1600
1550
1500
1450
1400

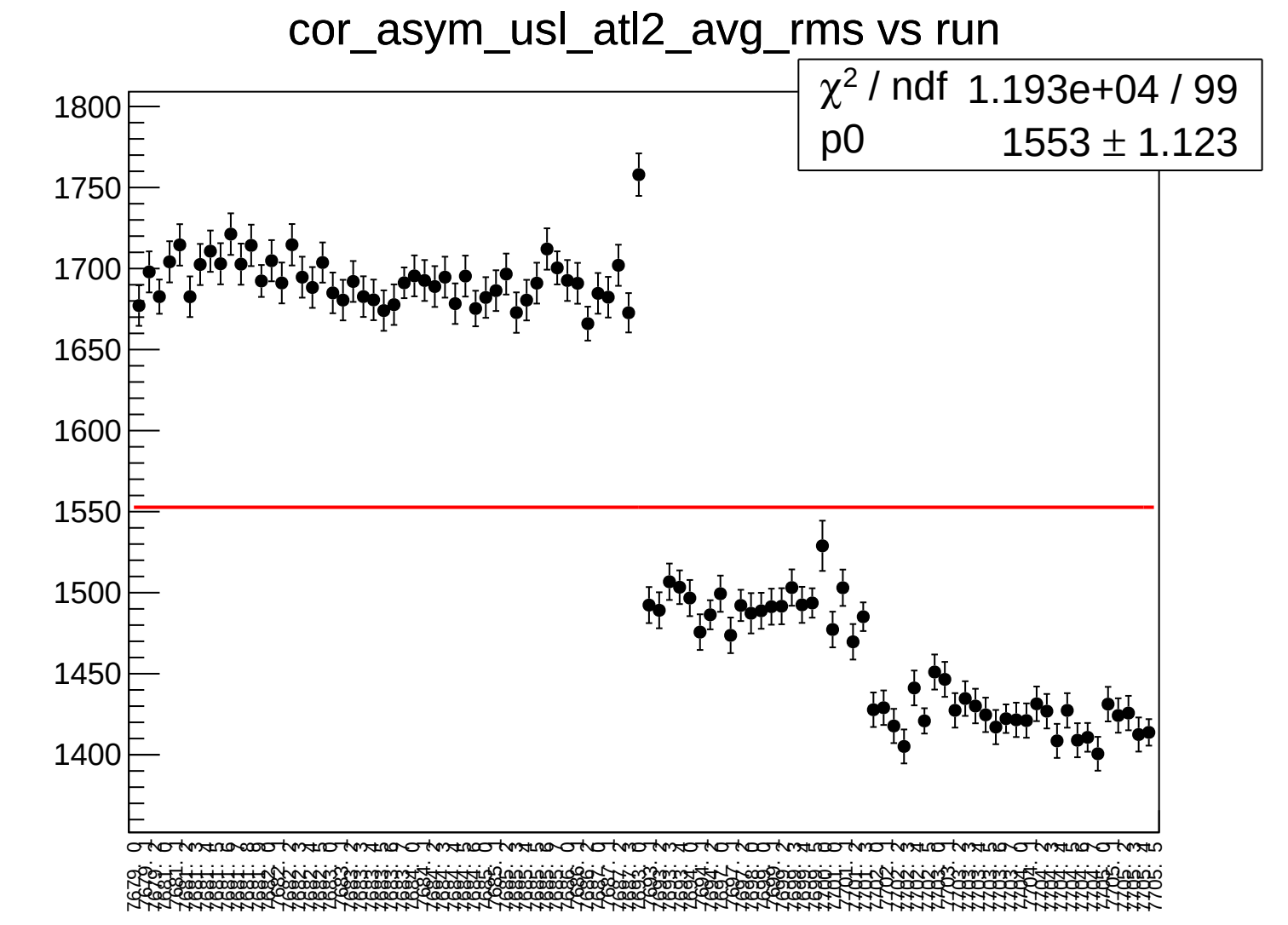

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 107.2 / 99
p0 1.2e+04 ± 5448
200
100
0
−100
−200
pull
Entries 100
Mean −118.9
Std Dev 0
2
1
0
−1
−2

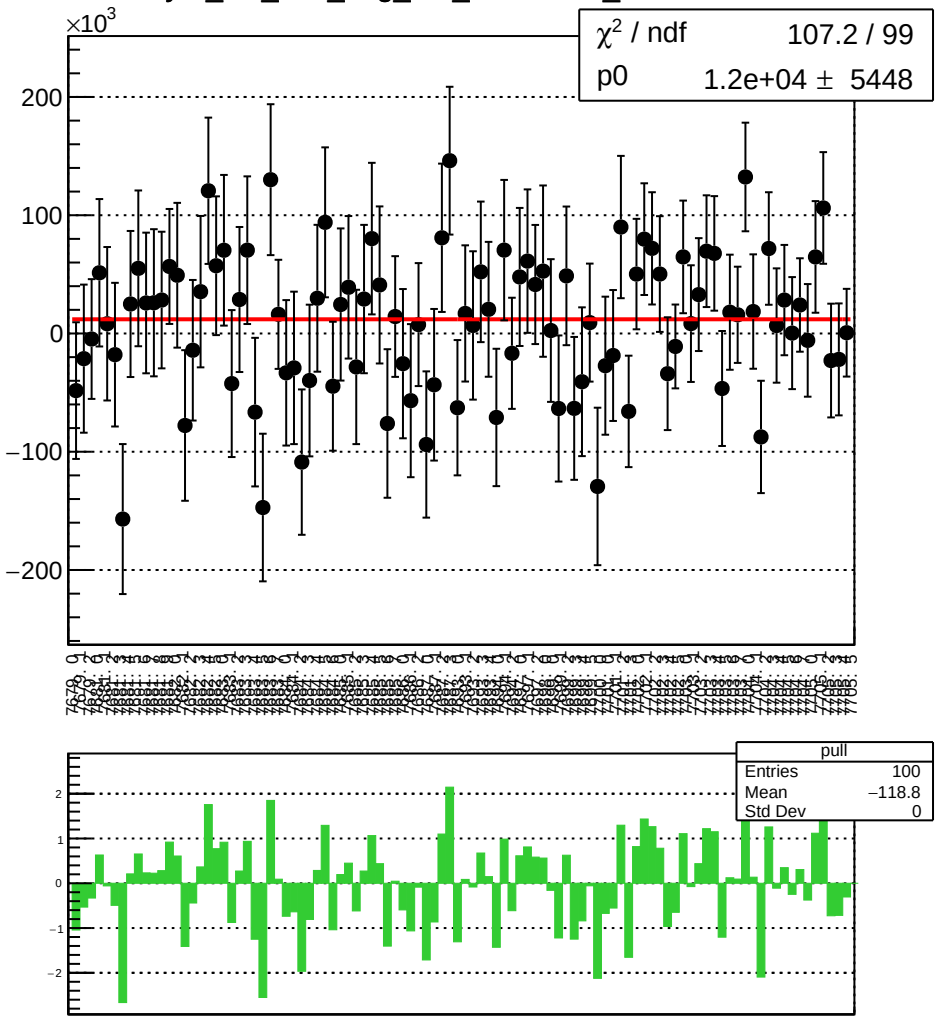

pull1D
Entries 100
Mean −0.01978
Std Dev 1.035
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

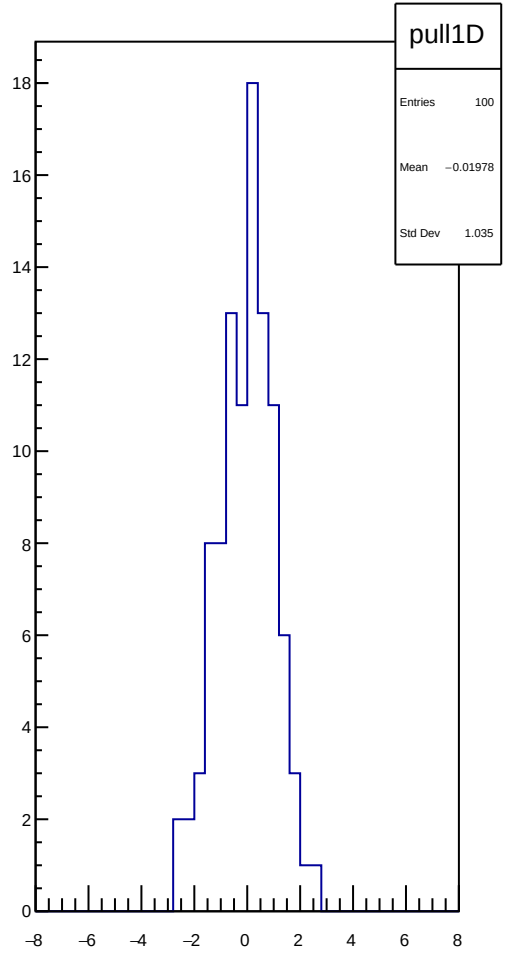

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 2.926e+04 / 99
p0 5304 ± 3.852
6500
6000
5500
5000
4500


cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 87.97 / 99
p0 −1150 ± 1588
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −780.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 100
Mean −0.002298
Std Dev 0.9379
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 1.193e+04 / 99
p0 1553 ± 1.123
1800
1750
1700
1650
1600
1550
1500
1450
1400


asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 107.2 / 99
p0 1.2e+04 ± 5448
200
100
0
−100
−200
pull
Entries 100
Mean −118.8
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 100
Mean −0.01978
Std Dev 1.035
18
16
14
12
10
8
6
4
2
0
−8
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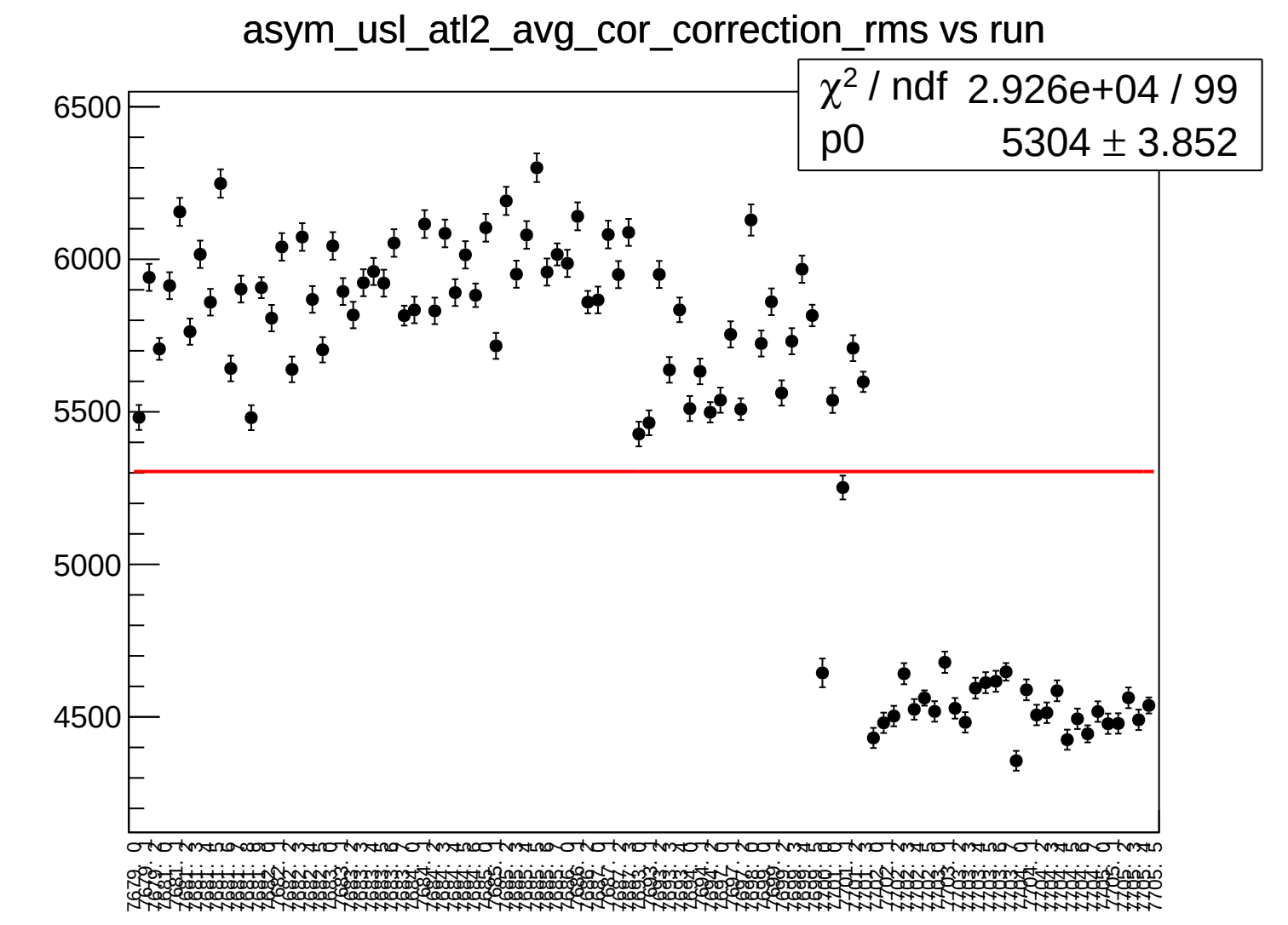
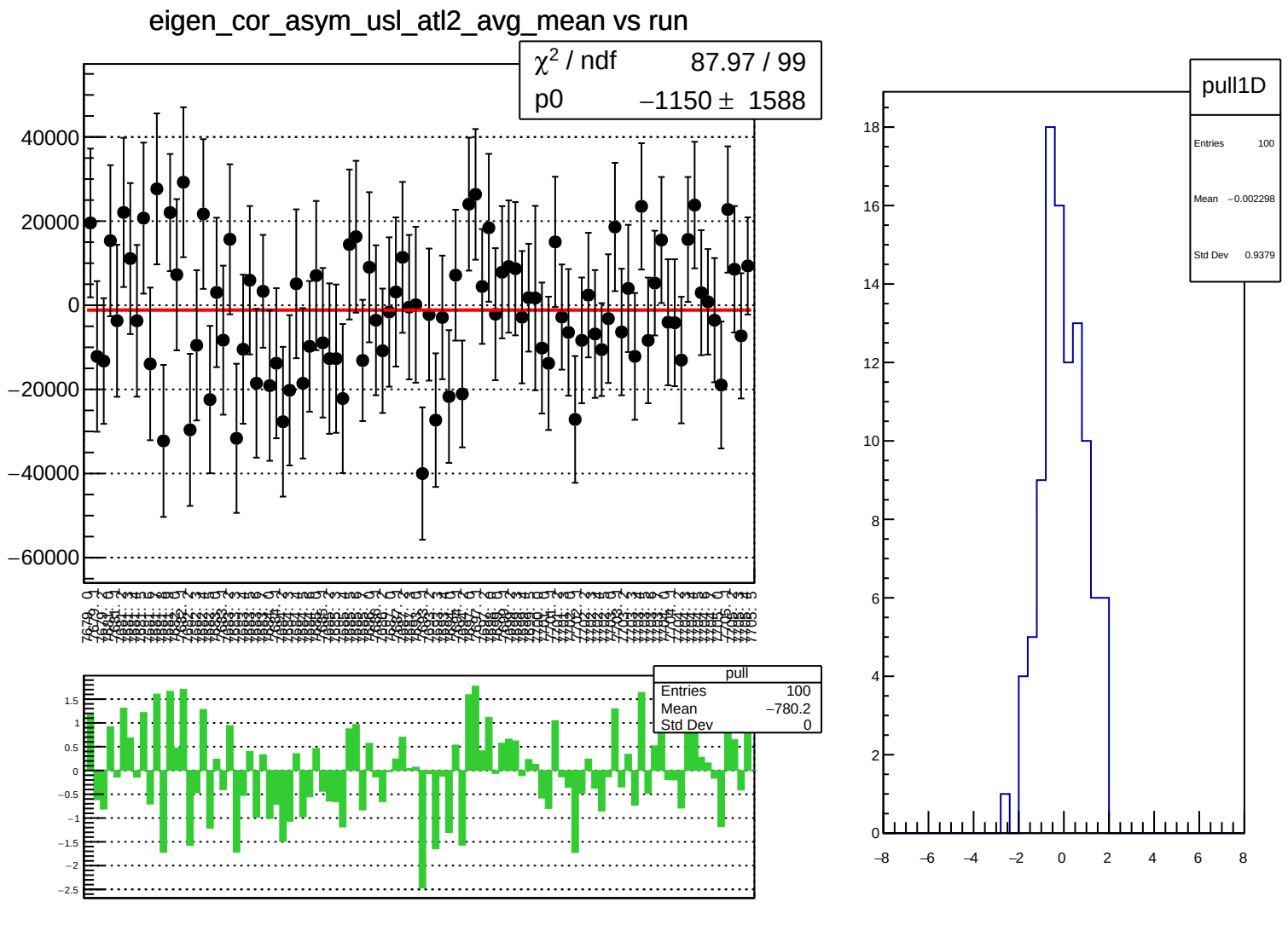
0
2
4
6
8


asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 2.926e+04 / 99
p0 5304 ± 3.852
6500
6000
5500
5000
4500


eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 87.97 / 99
p0 −1150 ± 1588
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −780.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 100
Mean −0.002298
Std Dev 0.9379
18
16
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2
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−8
−6
−4
−2
0
2
4
6
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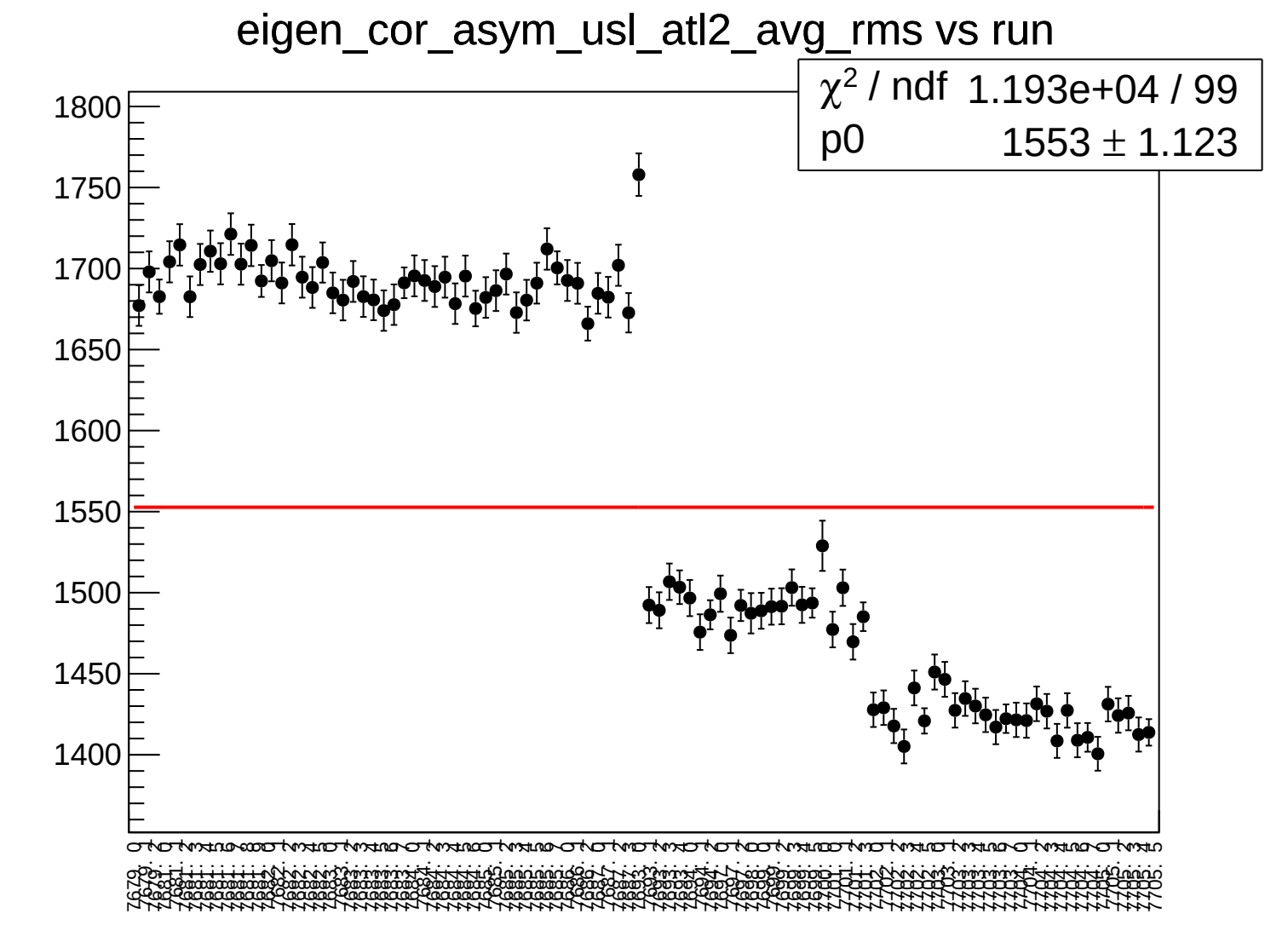
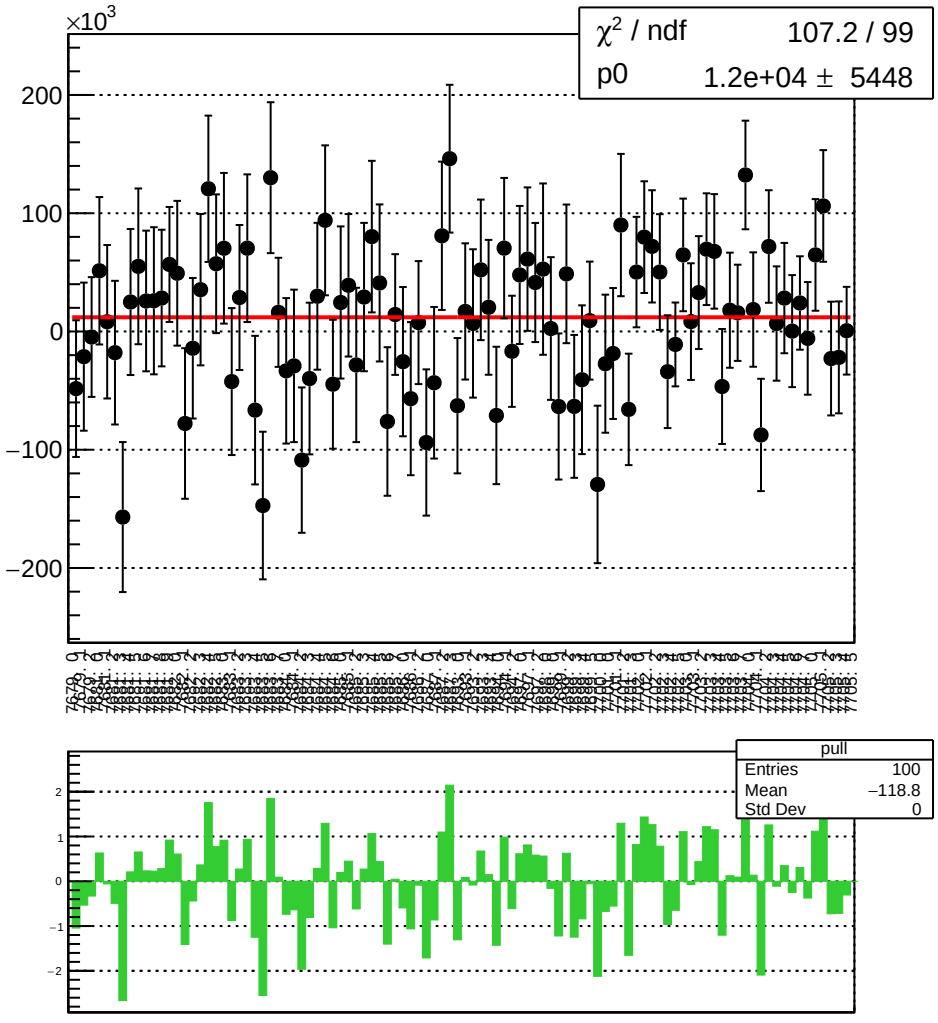
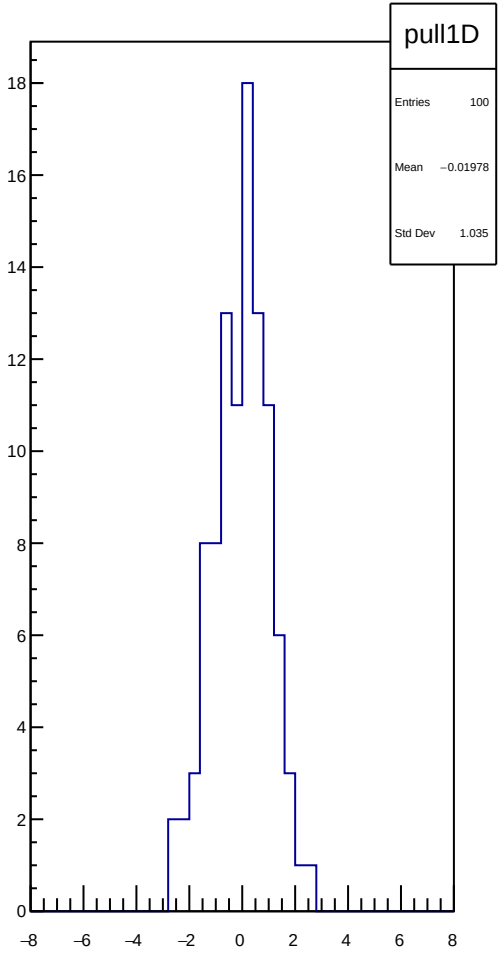

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 1.193e+04 / 99
p0 1553 ± 1.123
1800
1750
1700
1650
1600
1550
1500
1450
1400


asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 107.2 / 99
p0 1.2e+04 ± 5448
200
100
0
−100
−200
pull
Entries 100
Mean −118.8
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 100
Mean −0.01978
Std Dev 1.035
18
16
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10
8
6
4
2
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−8
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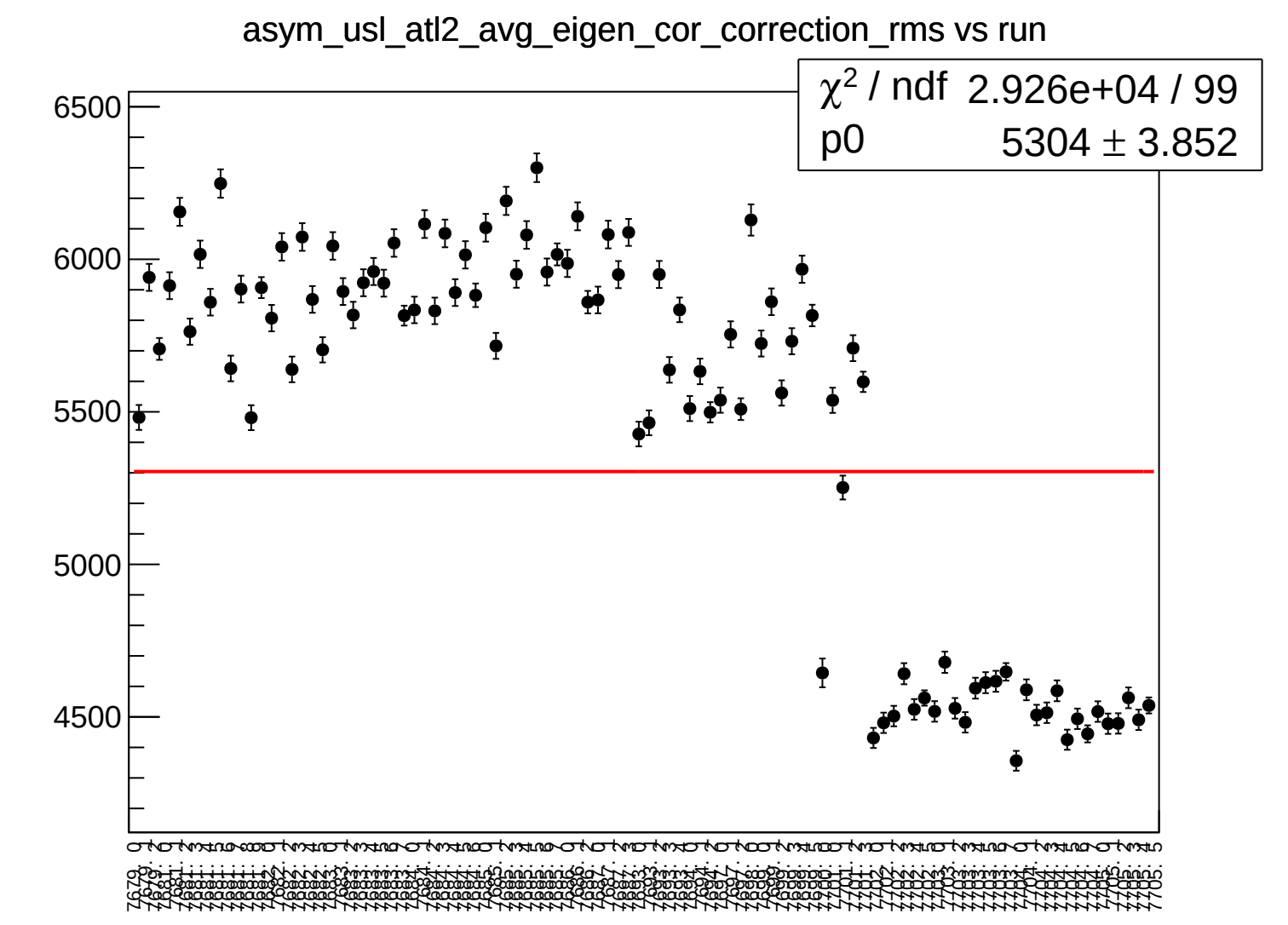
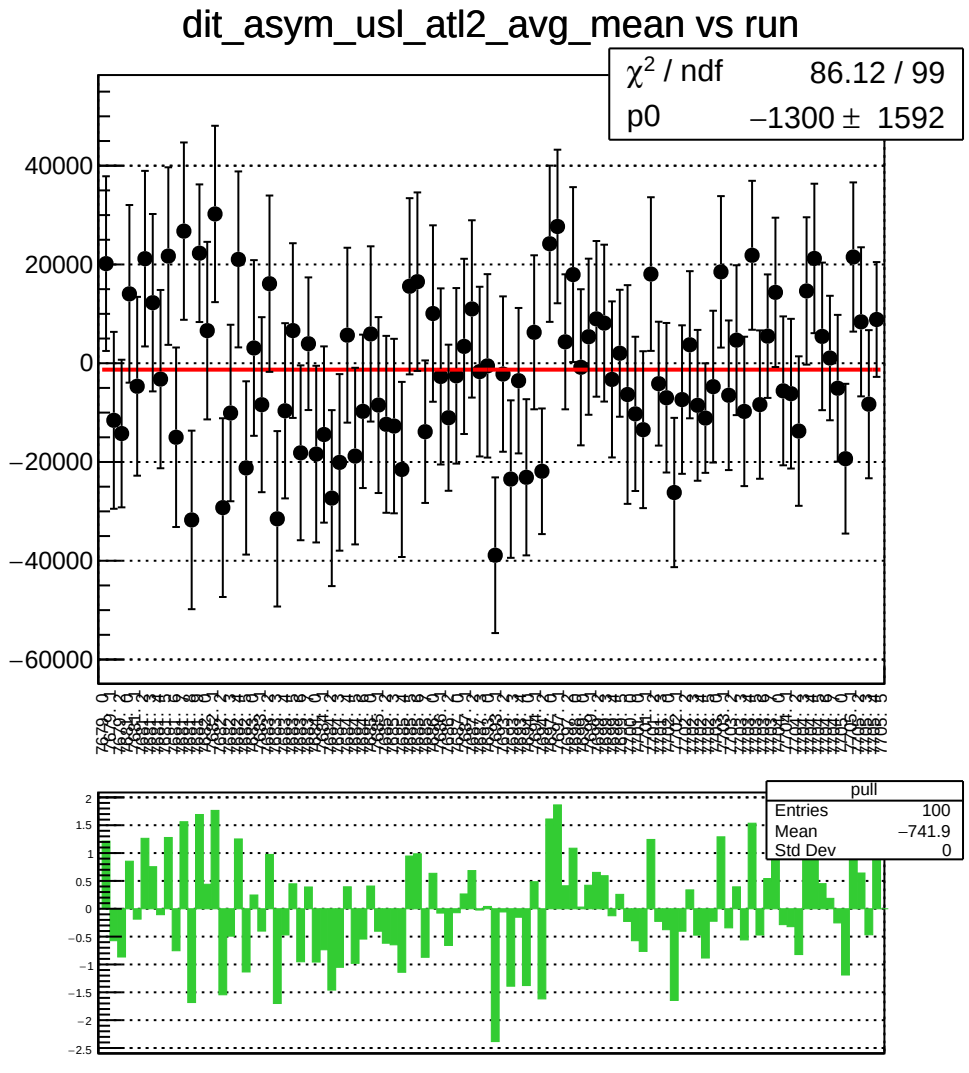
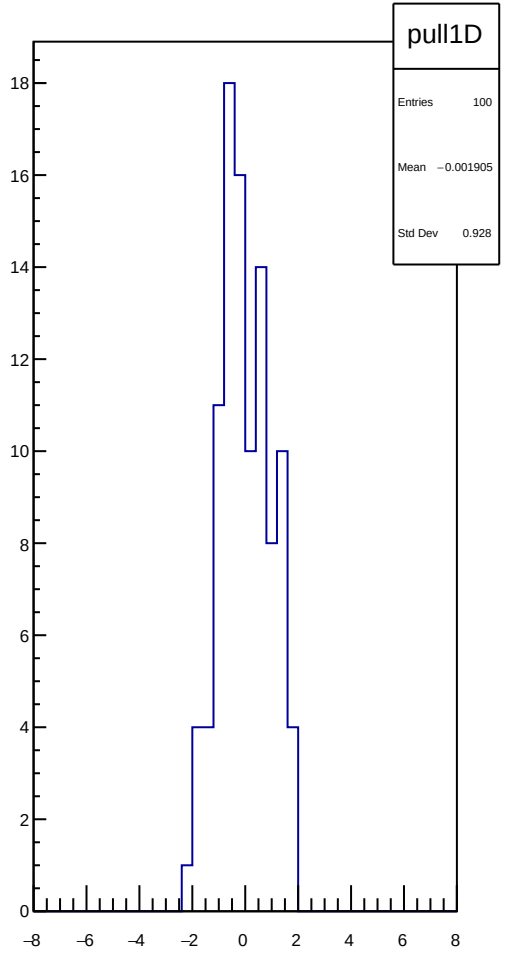
−4
−2
0
2
4
6
8


asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.926e+04 / 99
p0 5304 ± 3.852
6500
6000
5500
5000
4500


dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 86.12 / 99
p0 −1300 ± 1592
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −741.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 100
Mean −0.001905
Std Dev 0.928
18
16
14
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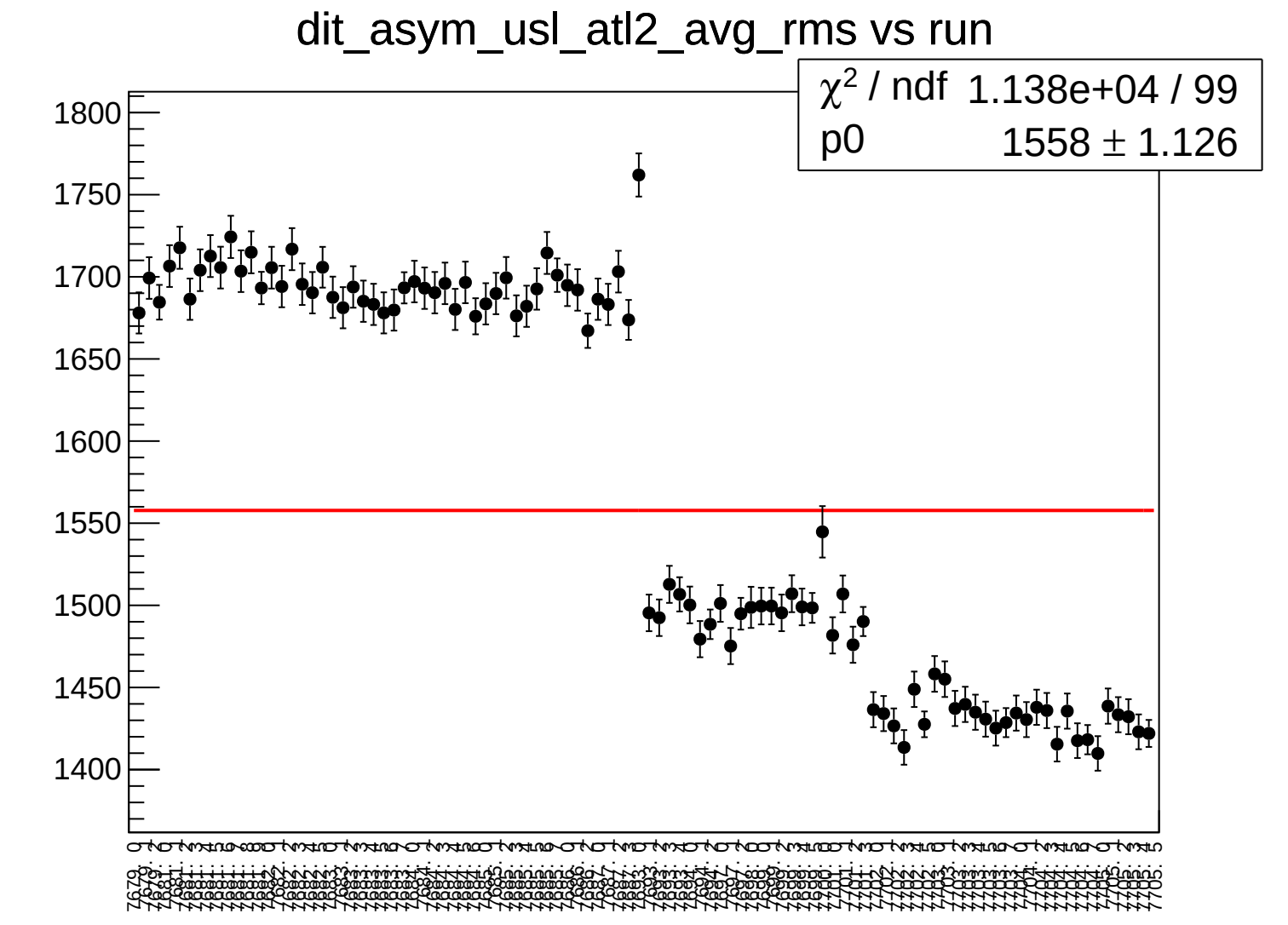
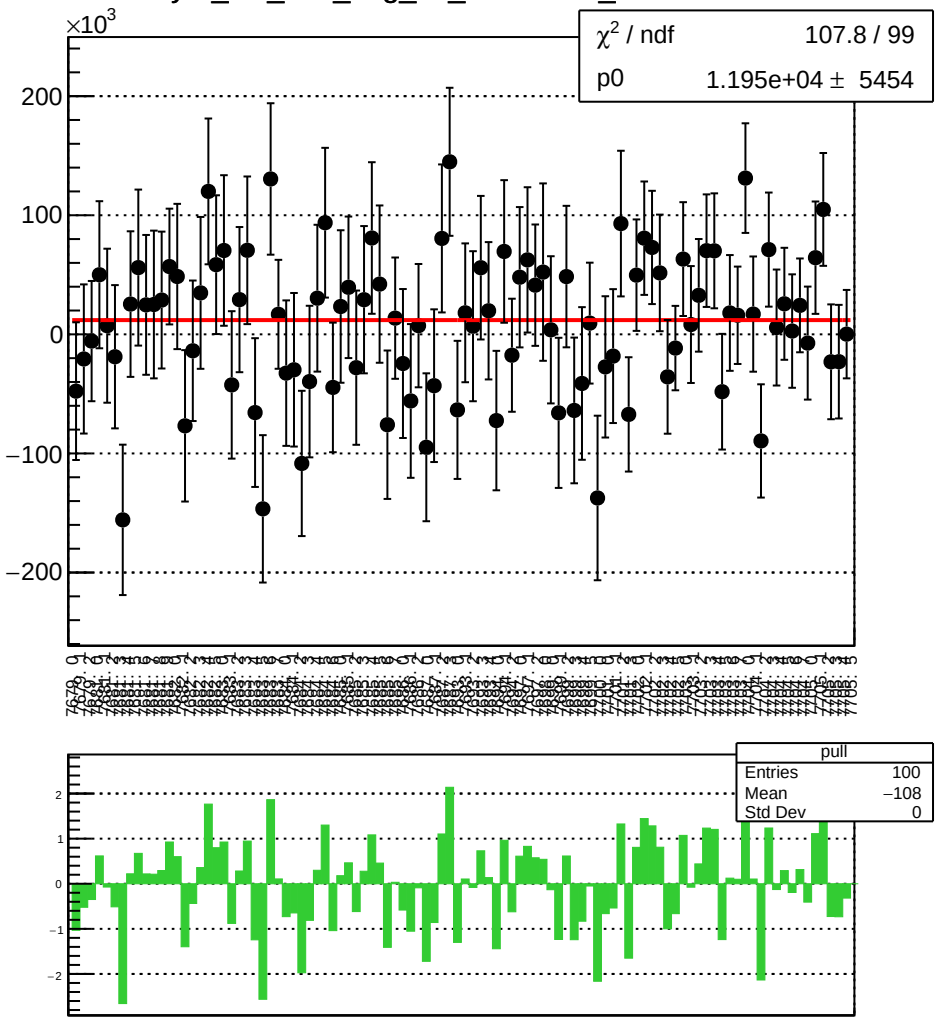
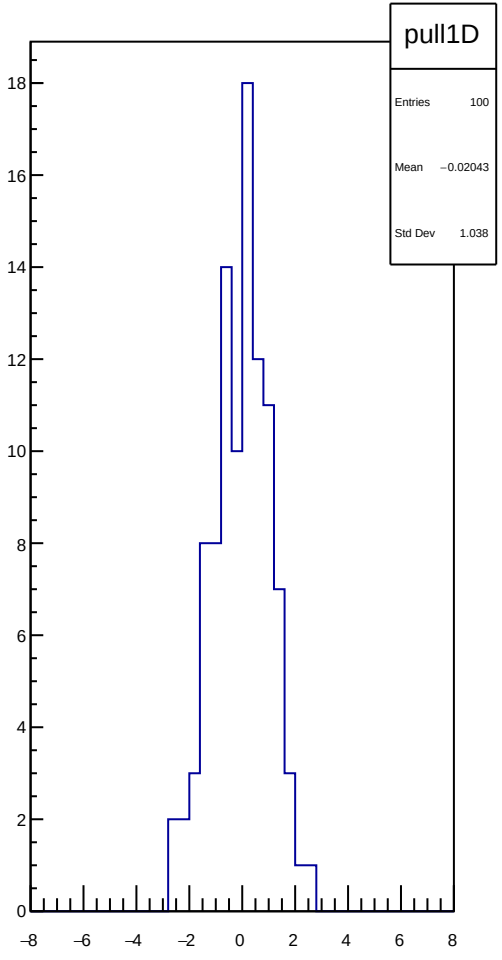
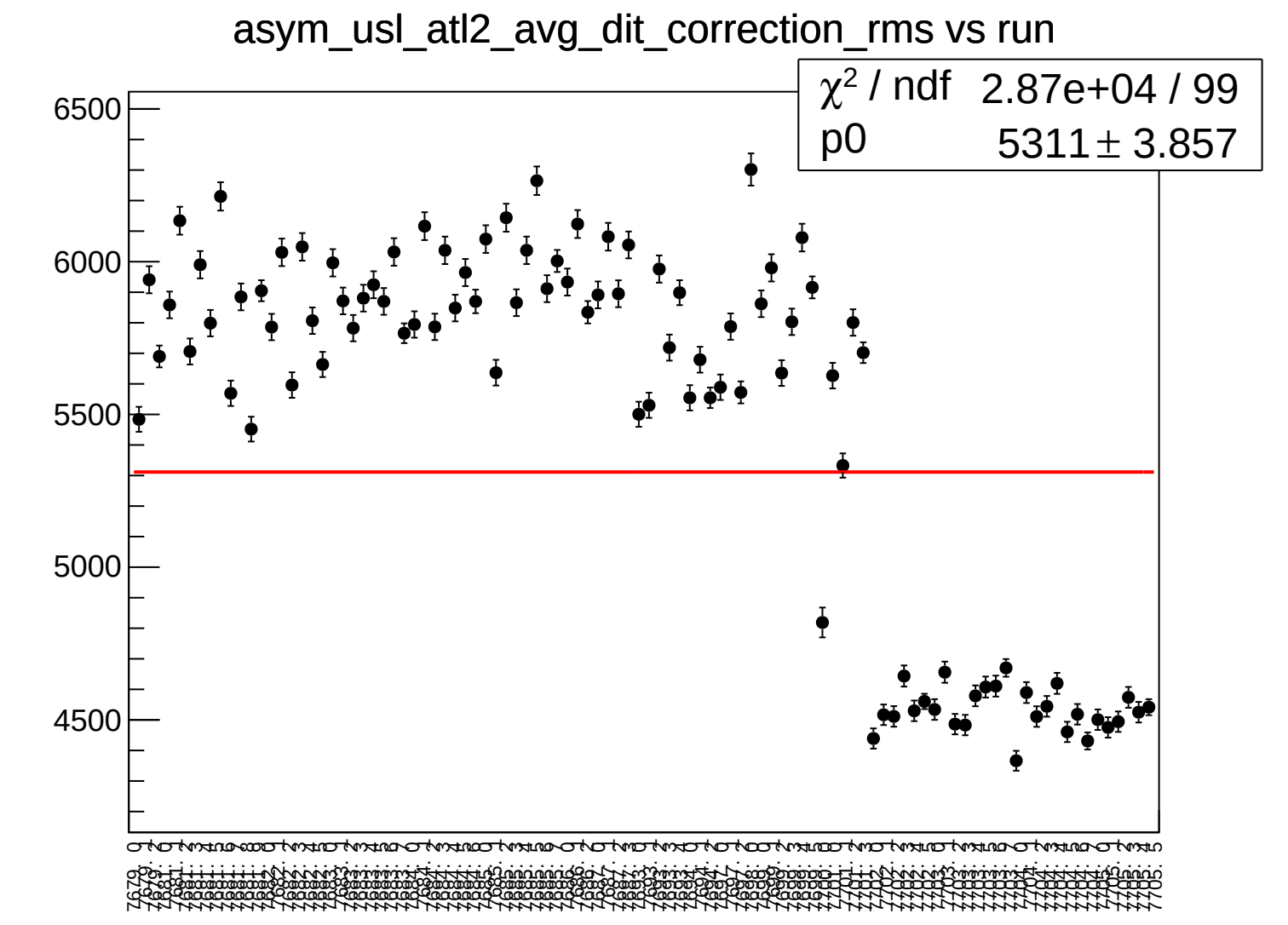
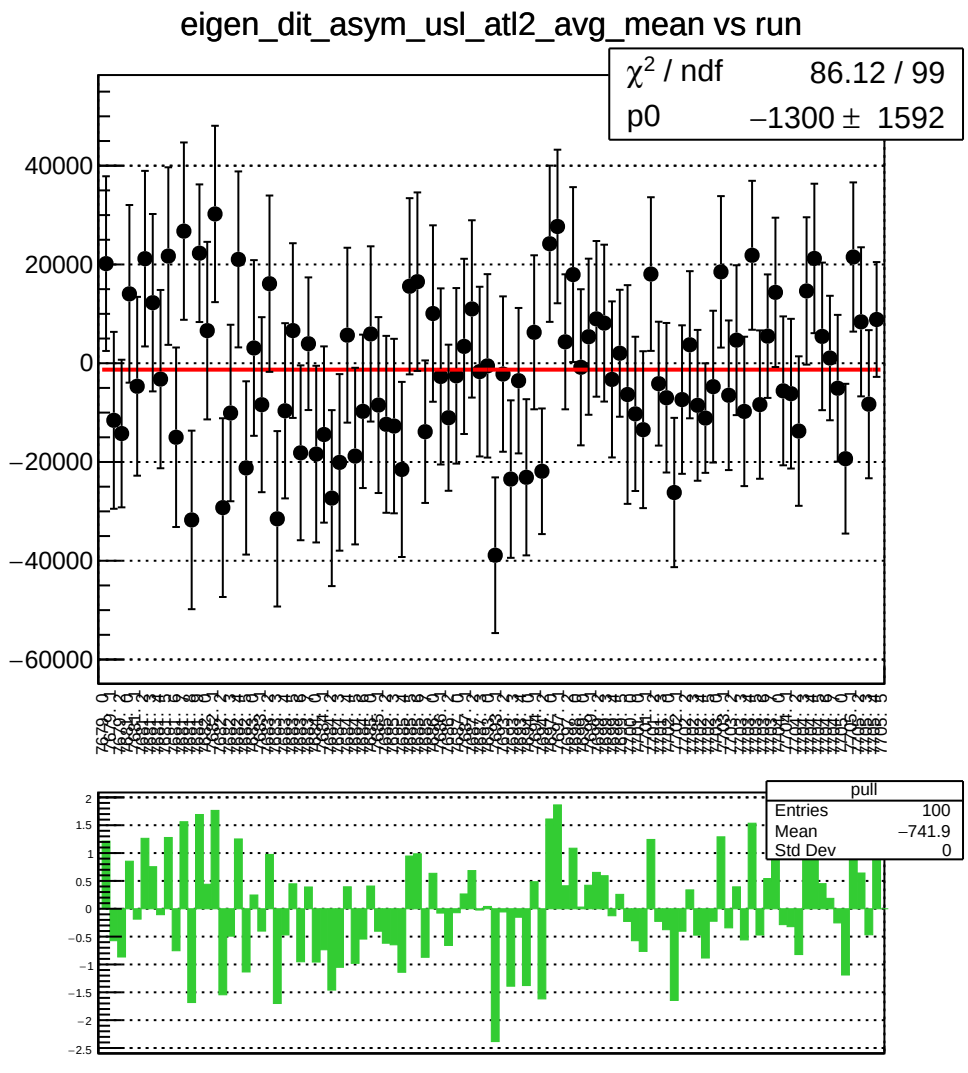
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

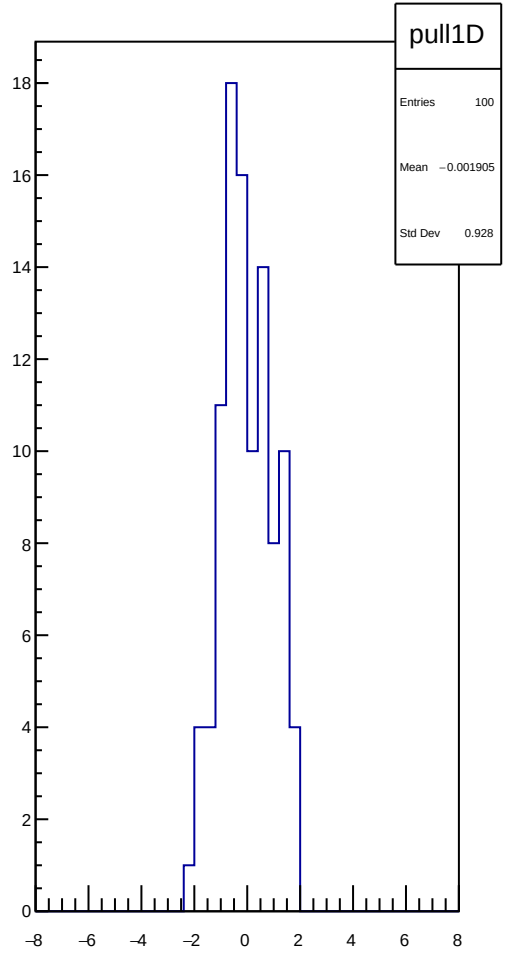

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 1.138e+04 / 99
p0 1558 ± 1.126
1800
1750
1700
1650
1600
1550
1500
1450
1400

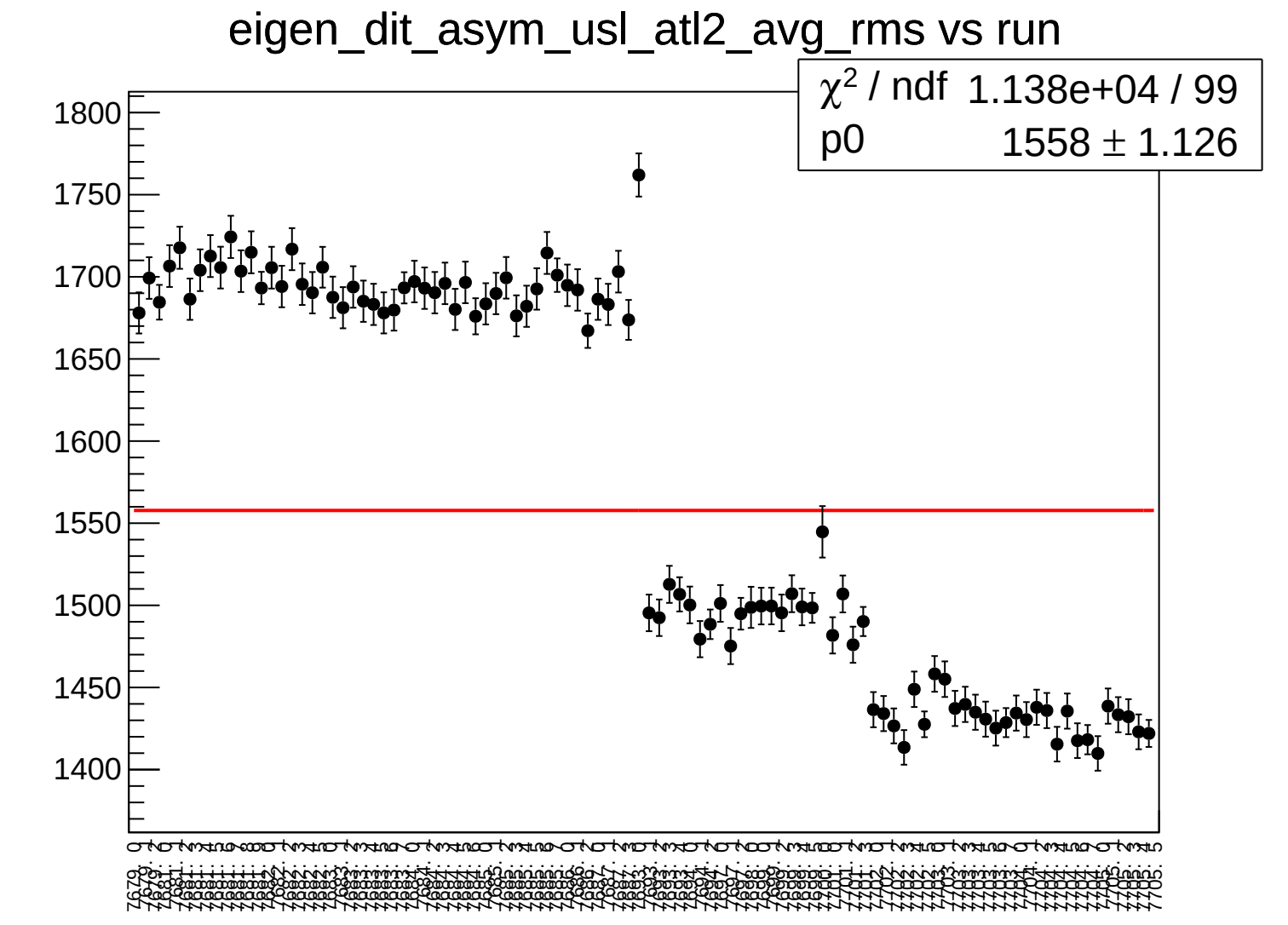

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 107.8 / 99
p0 1.195e+04 ± 5454
200
100
0
−100
−200
pull
Entries 100
Mean −108
Std Dev 0
2
1
0
−1
−2

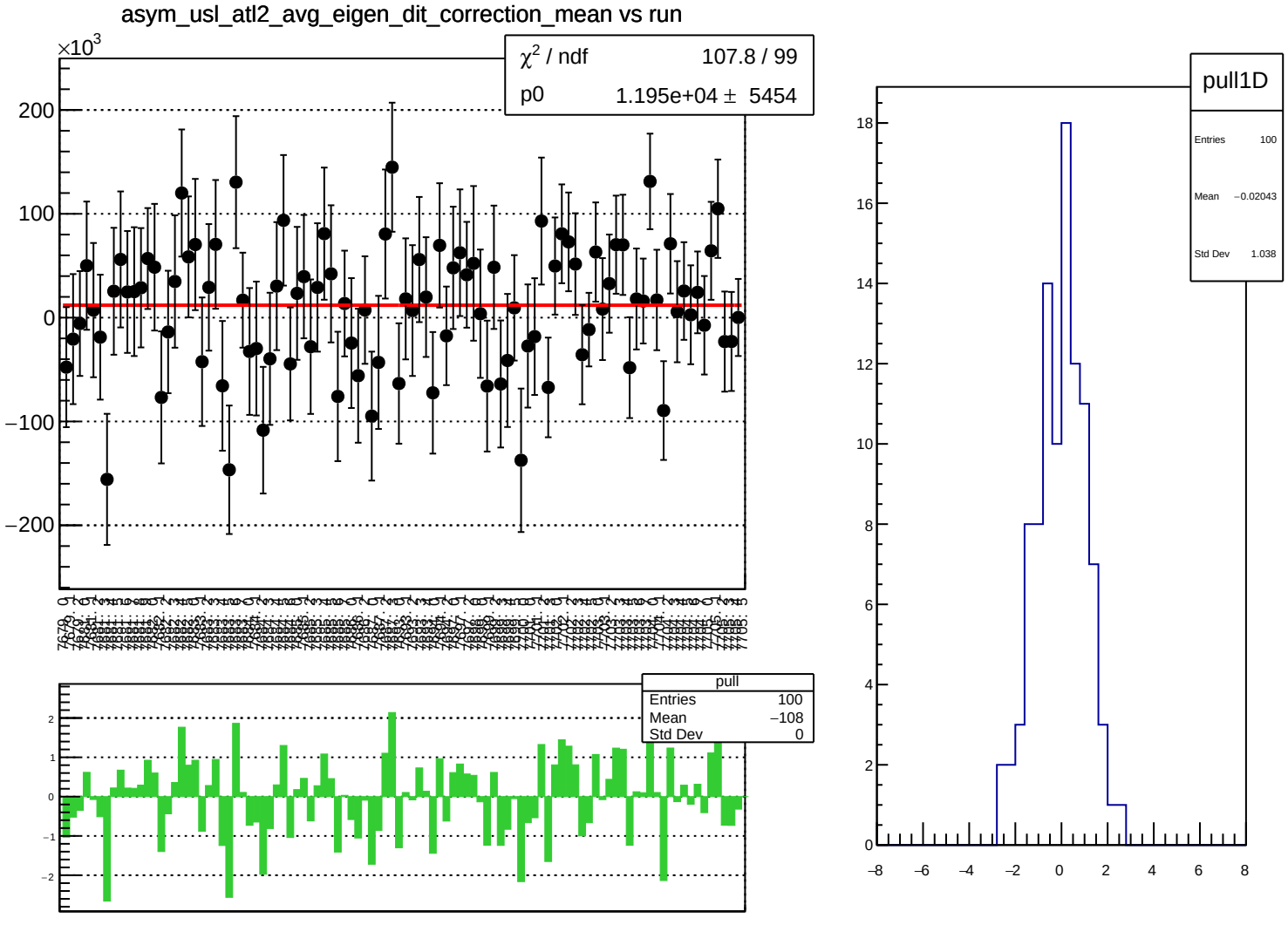

pull1D
Entries 100
Mean −0.02043
Std Dev 1.038
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

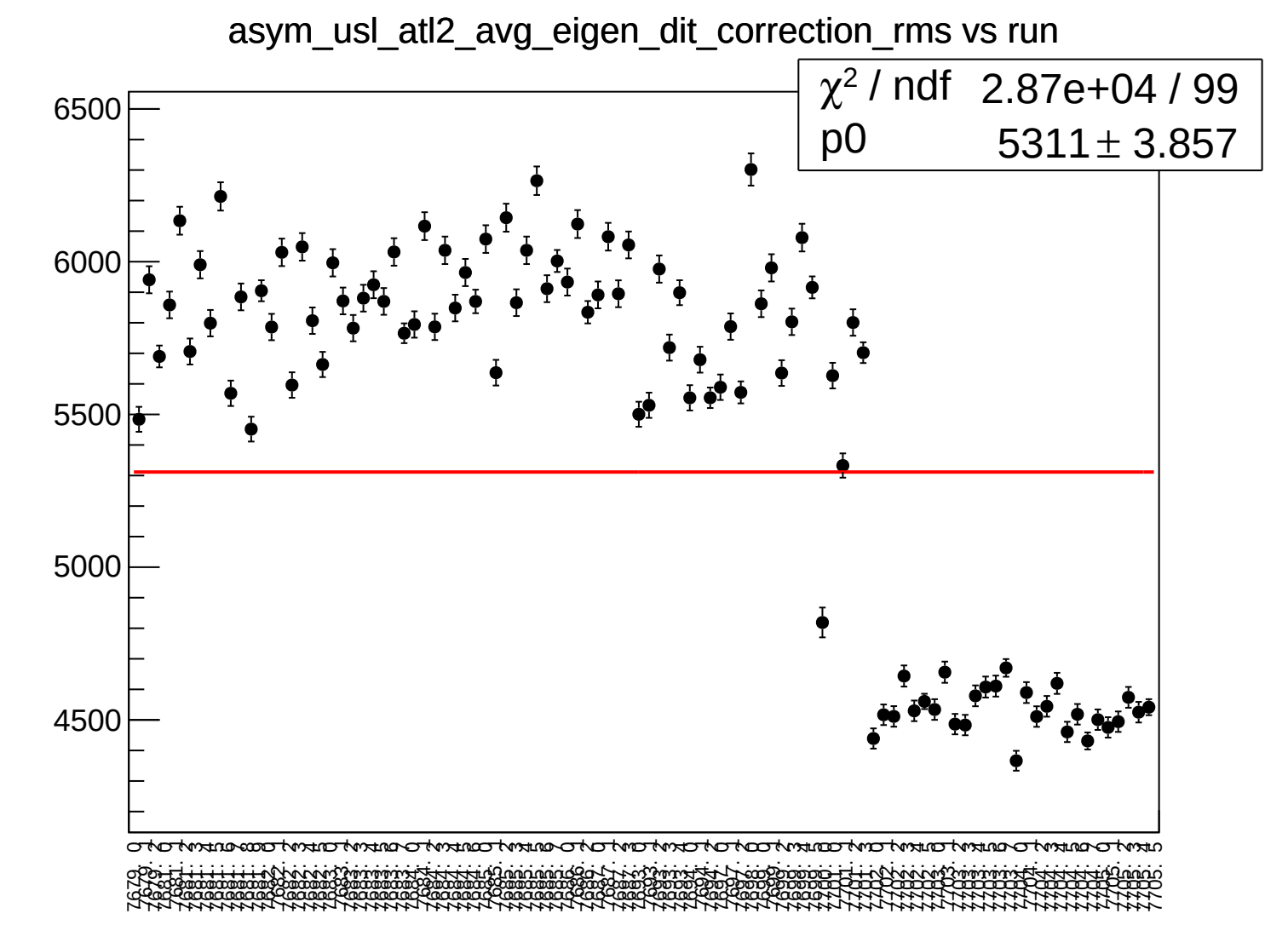

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 2.87e+04 / 99
p0 5311 ± 3.857
6500
6000
5500
5000
4500

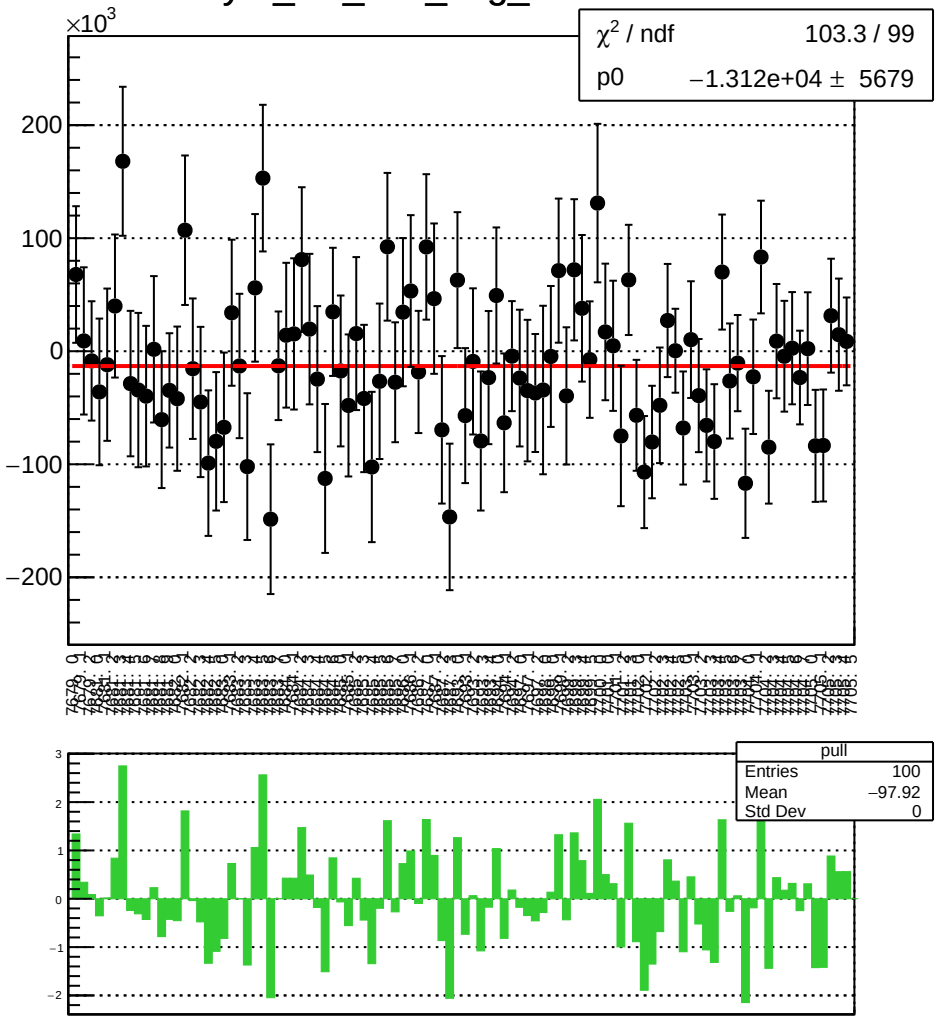

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 86.12 / 99
p0 −1300 ± 1592
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −741.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

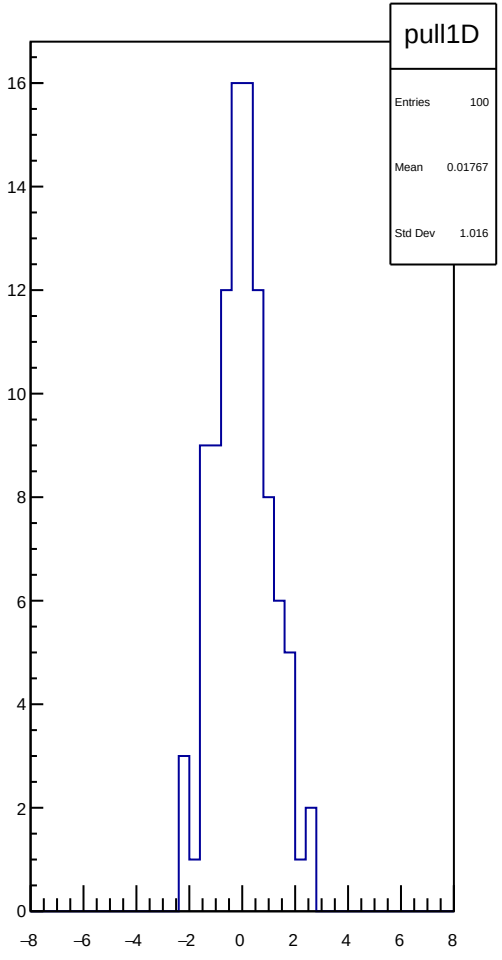

pull1D
Entries 100
Mean −0.001905
Std Dev 0.928
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

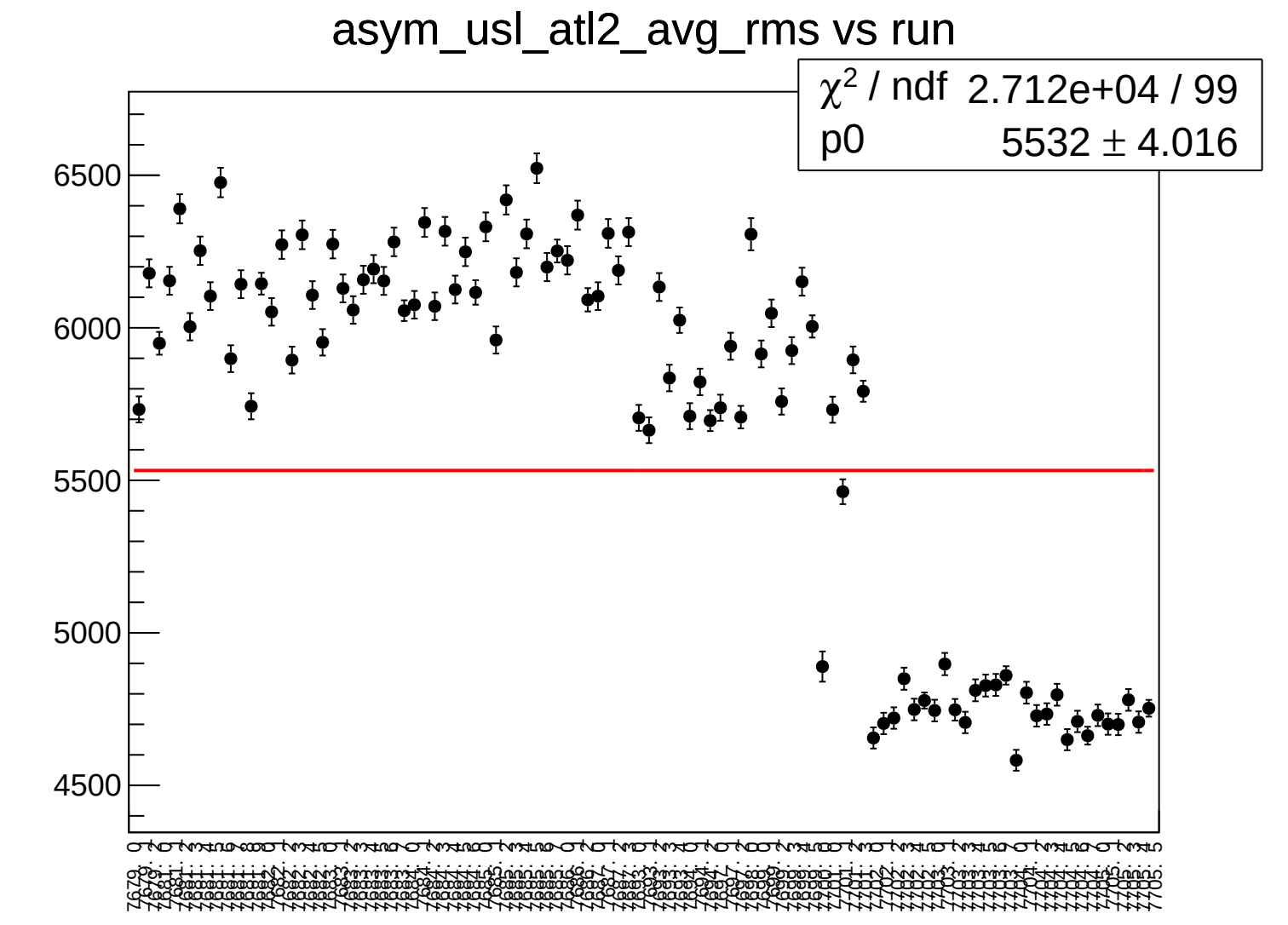

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 1.138e+04 / 99
p0 1558 ± 1.126
1800
1750
1700
1650
1600
1550
1500
1450
1400

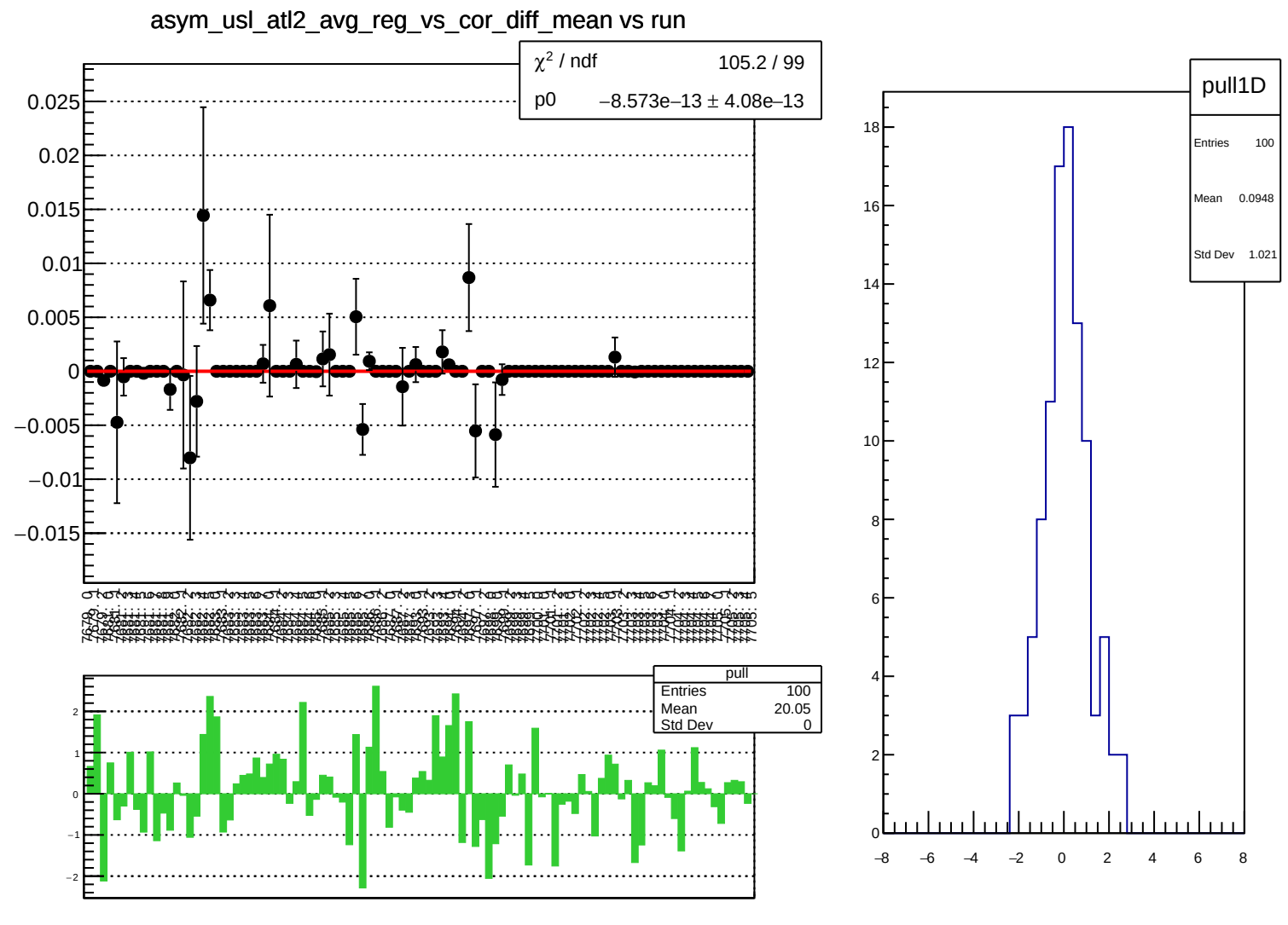

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 107.8 / 99
p0 1.195e+04 ± 5454
200
100
0
−100
−200
pull
Entries 100
Mean −108
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.02043
Std Dev 1.038
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

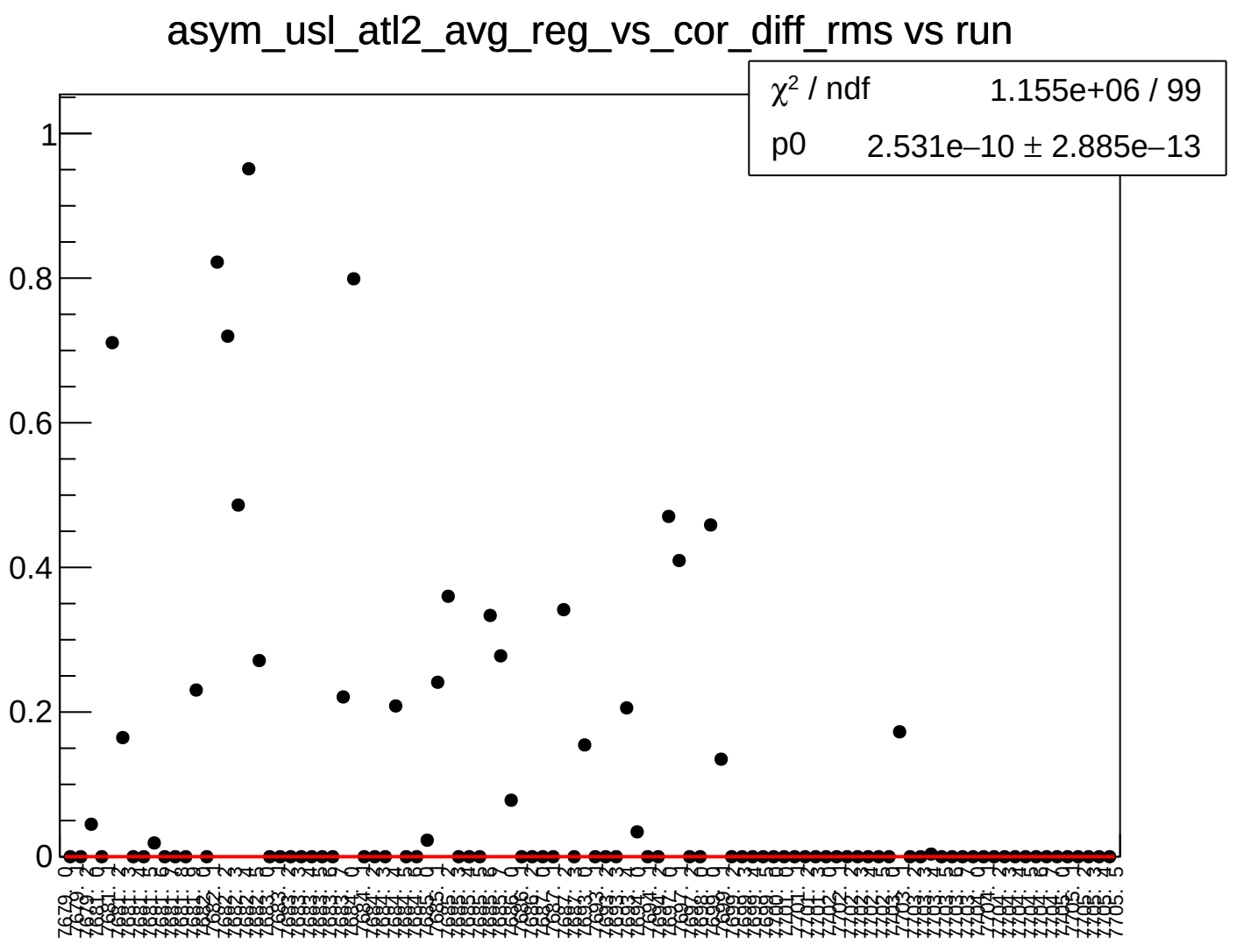

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.87e+04 / 99
p0 5311 ± 3.857
6500
6000
5500
5000
4500

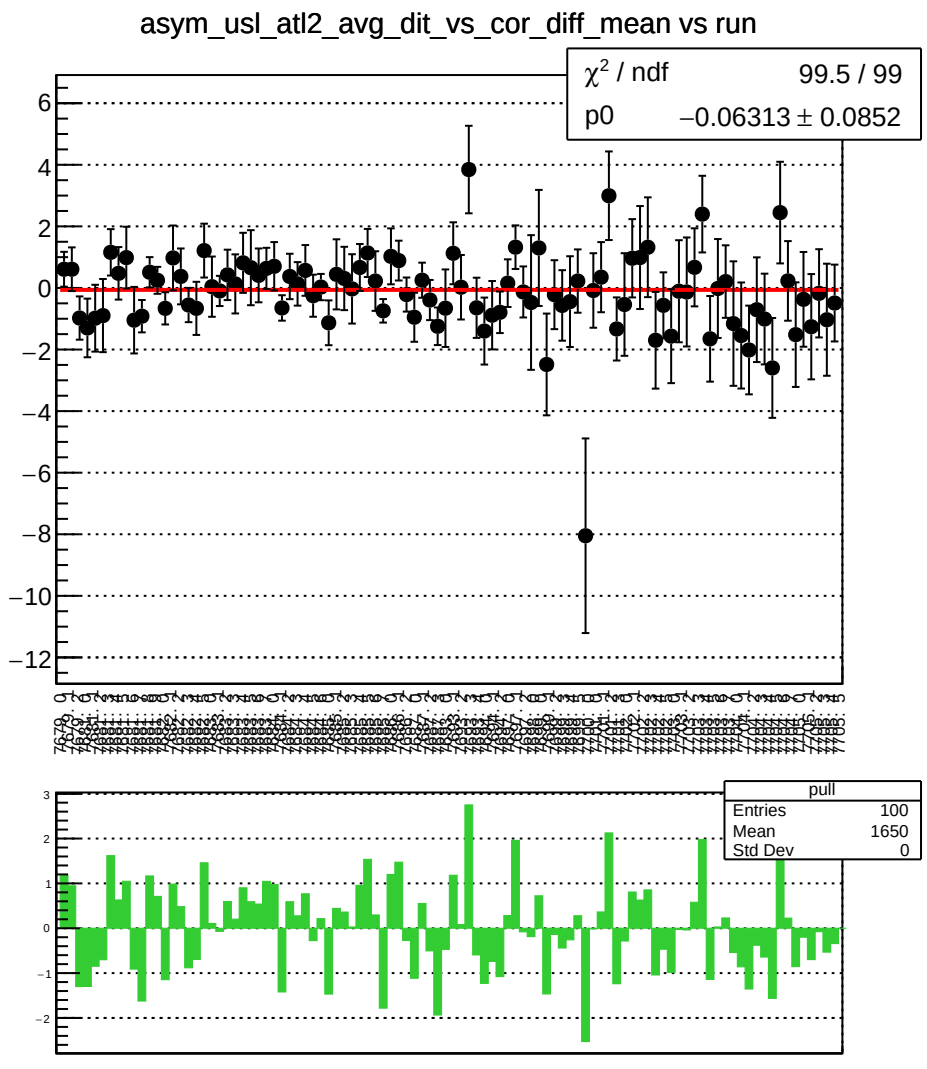

asym_usl_atl2_avg_mean vs run
×10^3
χ² / ndf 103.3 / 99
p0 −1.312e+04 ± 5679
200
100
0
−100
−200
pull
Entries 100
Mean −97.92
Std Dev 0
3
2
1
0
−1
−2

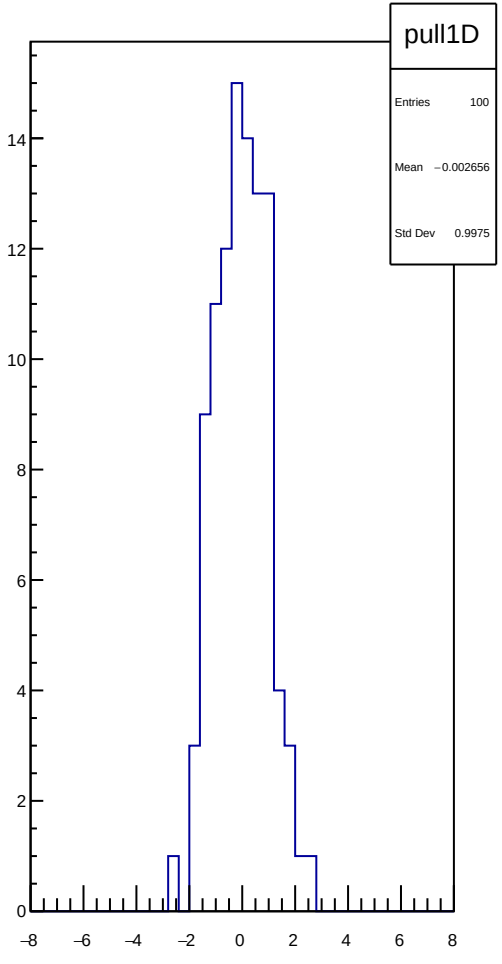

pull1D
Entries 100
Mean 0.01767
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

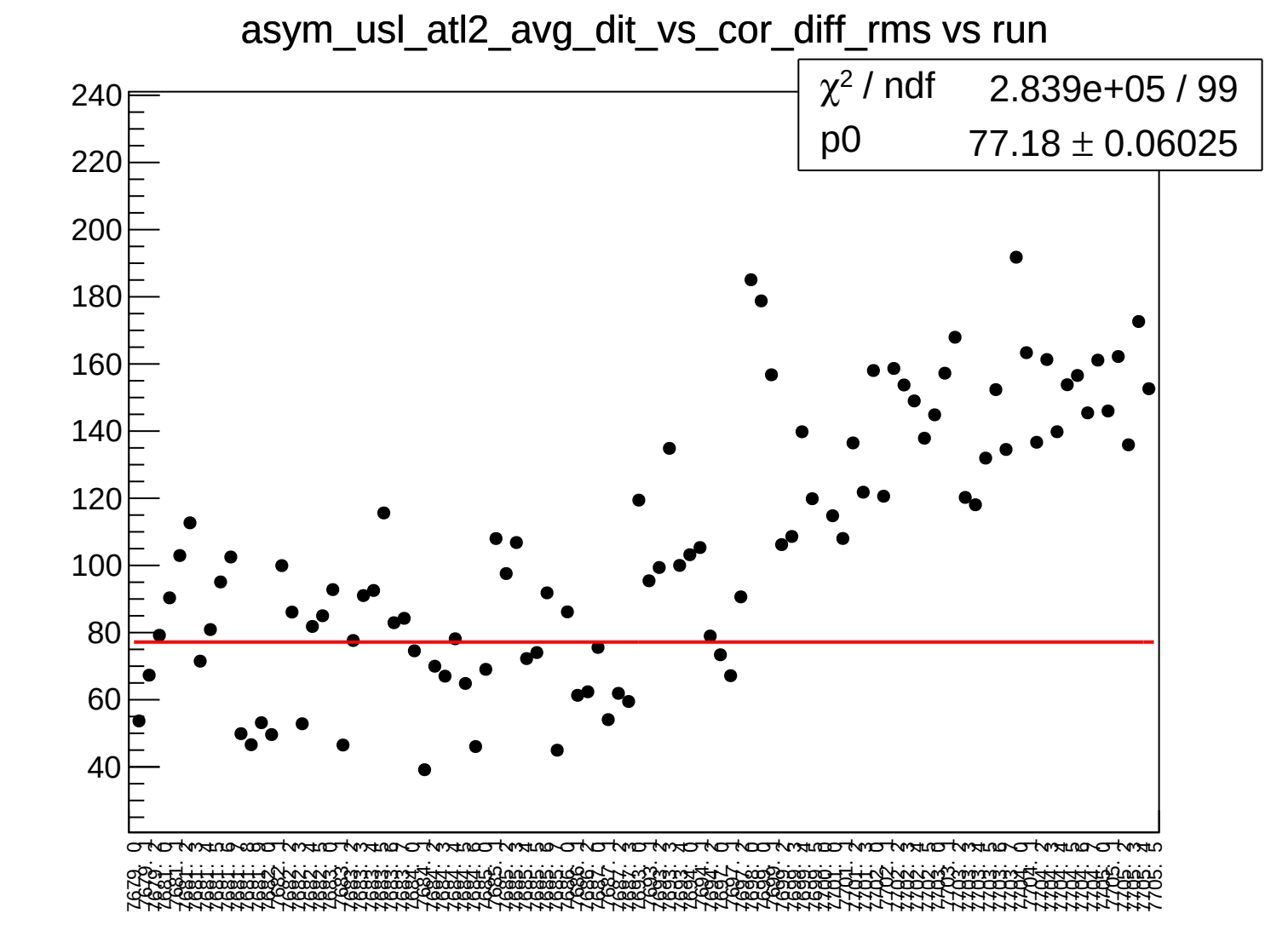

asym_usl_atl2_avg_rms vs run
χ² / ndf 2.712e+04 / 99
p0 5532 ± 4.016
6500
6000
5500
5000
4500

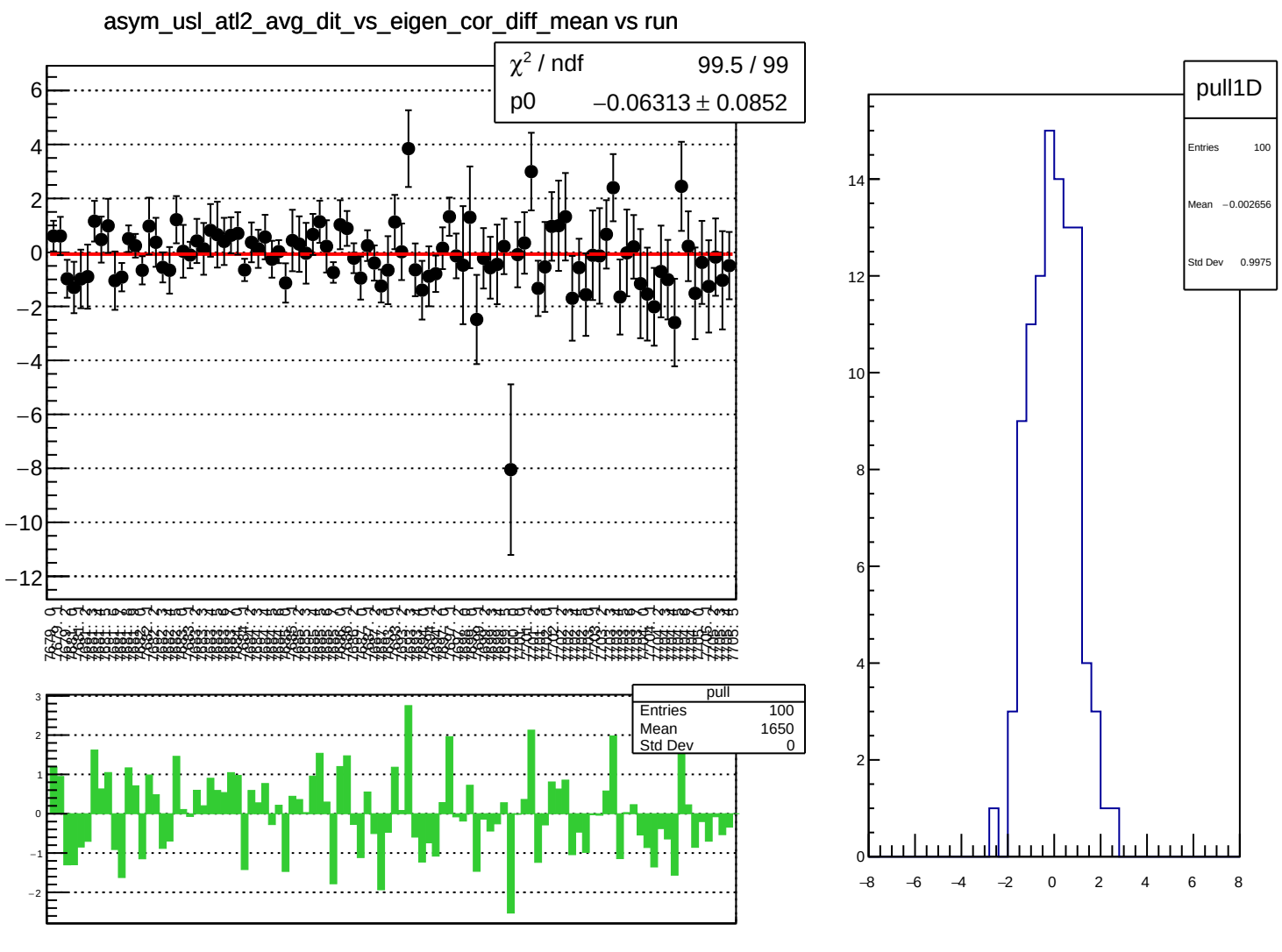

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 105.2 / 99
p0 −8.573e−13 ± 4.08e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 100
Mean 20.05
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.0948
Std Dev 1.021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

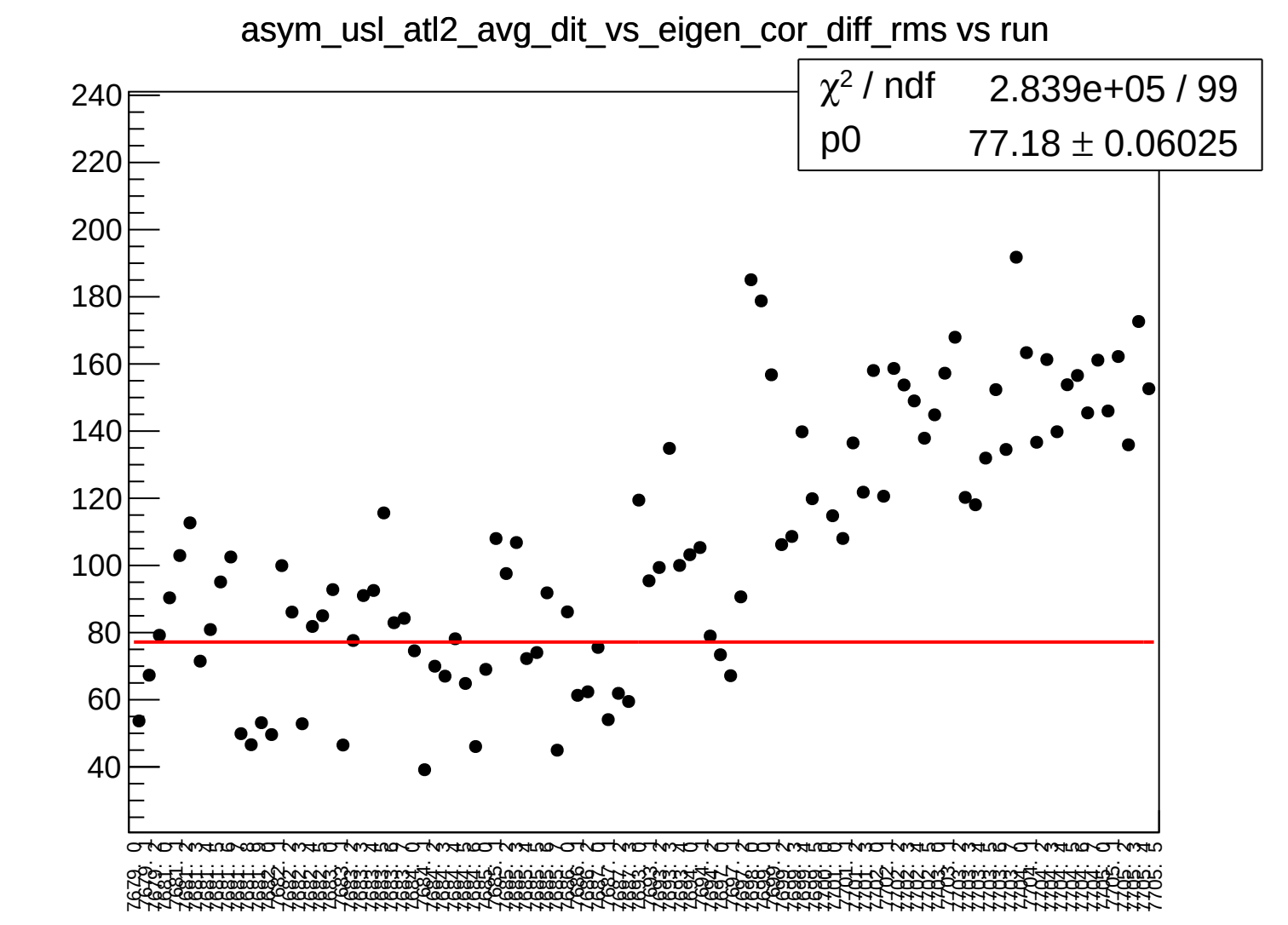

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.155e+06 / 99
p0 2.531e−10 ± 2.885e−13
1
0.8
0.6
0.4
0.2
0

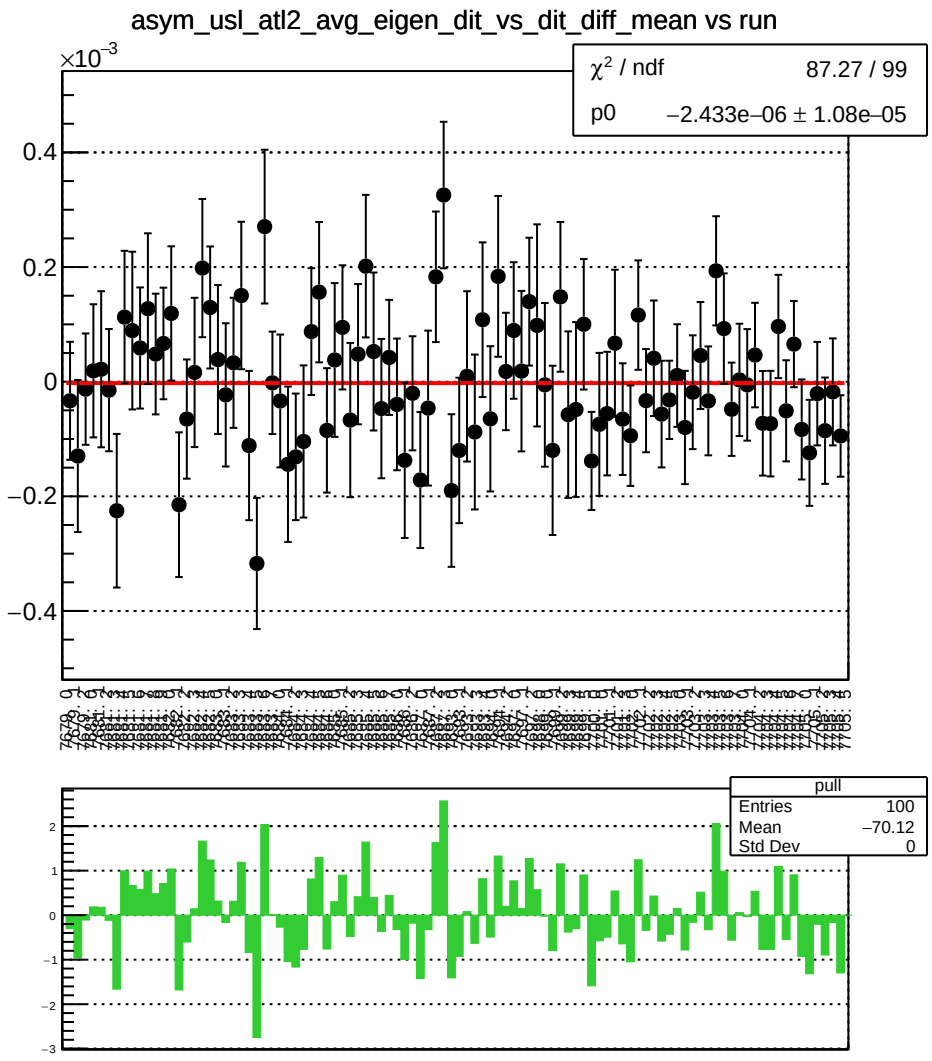

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 99.5 / 99
p0 −0.06313 ± 0.0852
pull
Entries 100
Mean 1650
Std Dev 0

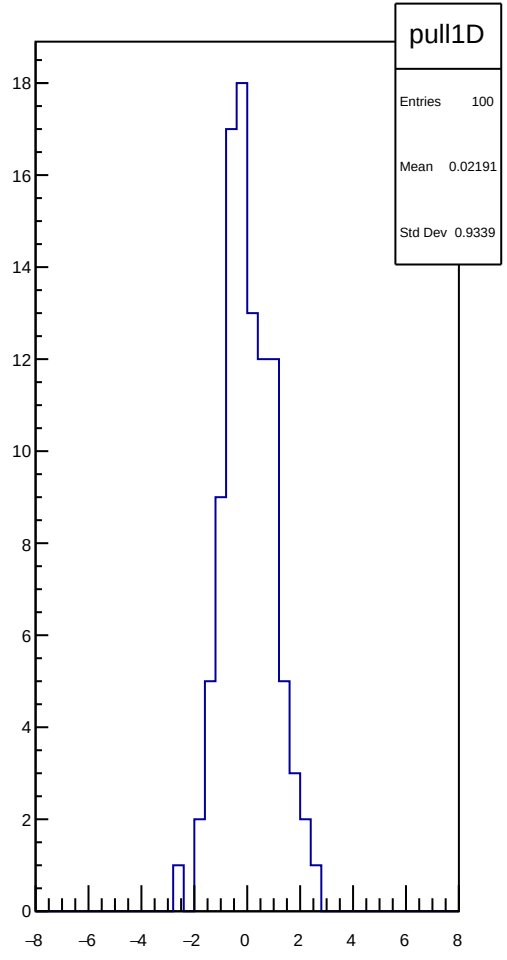

pull1D
Entries 100
Mean −0.002656
Std Dev 0.9975

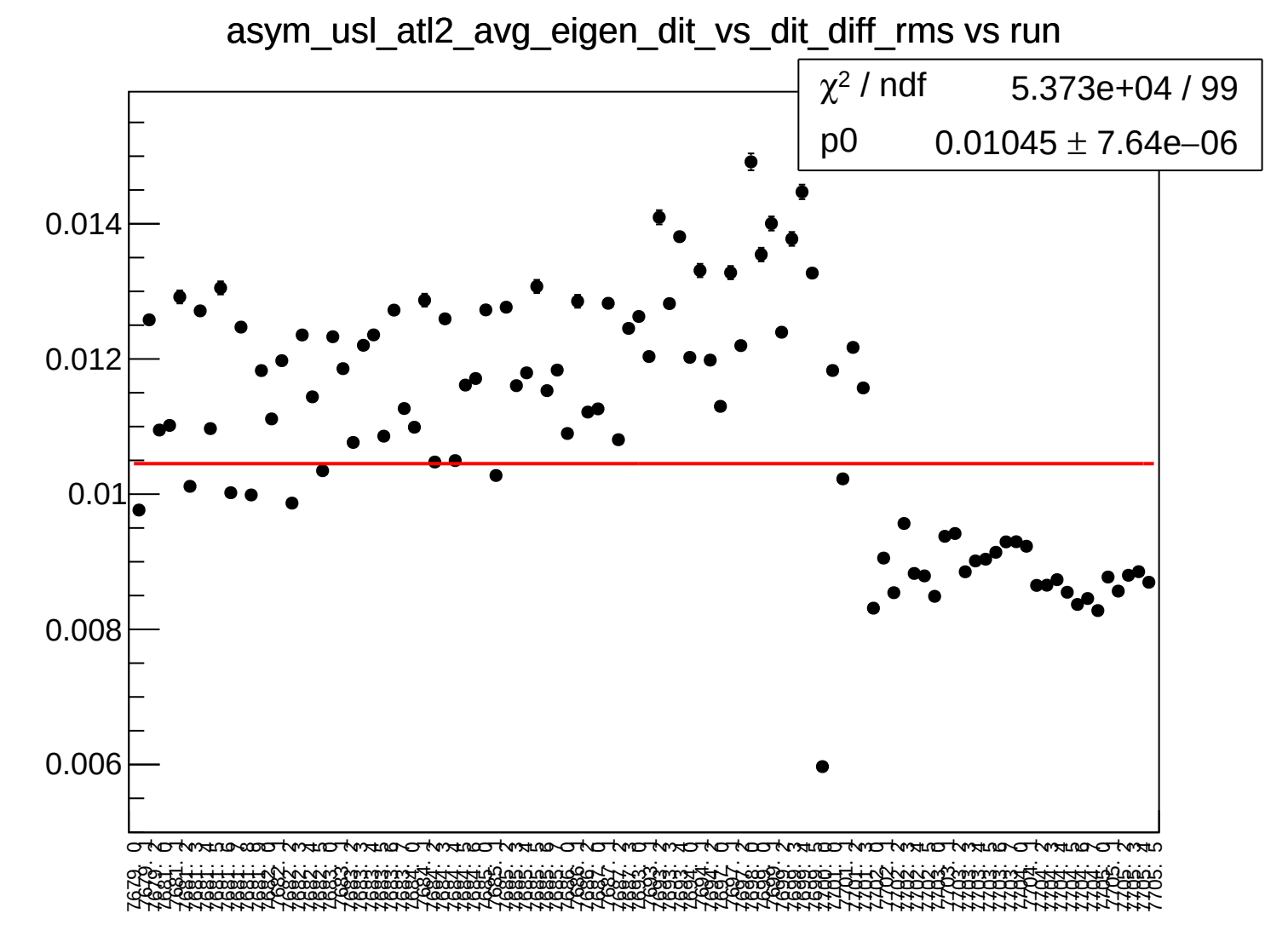

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.839e+05 / 99
p0 77.18 ± 0.06025
240
220
200
180
160
140
120
100
80
60
40

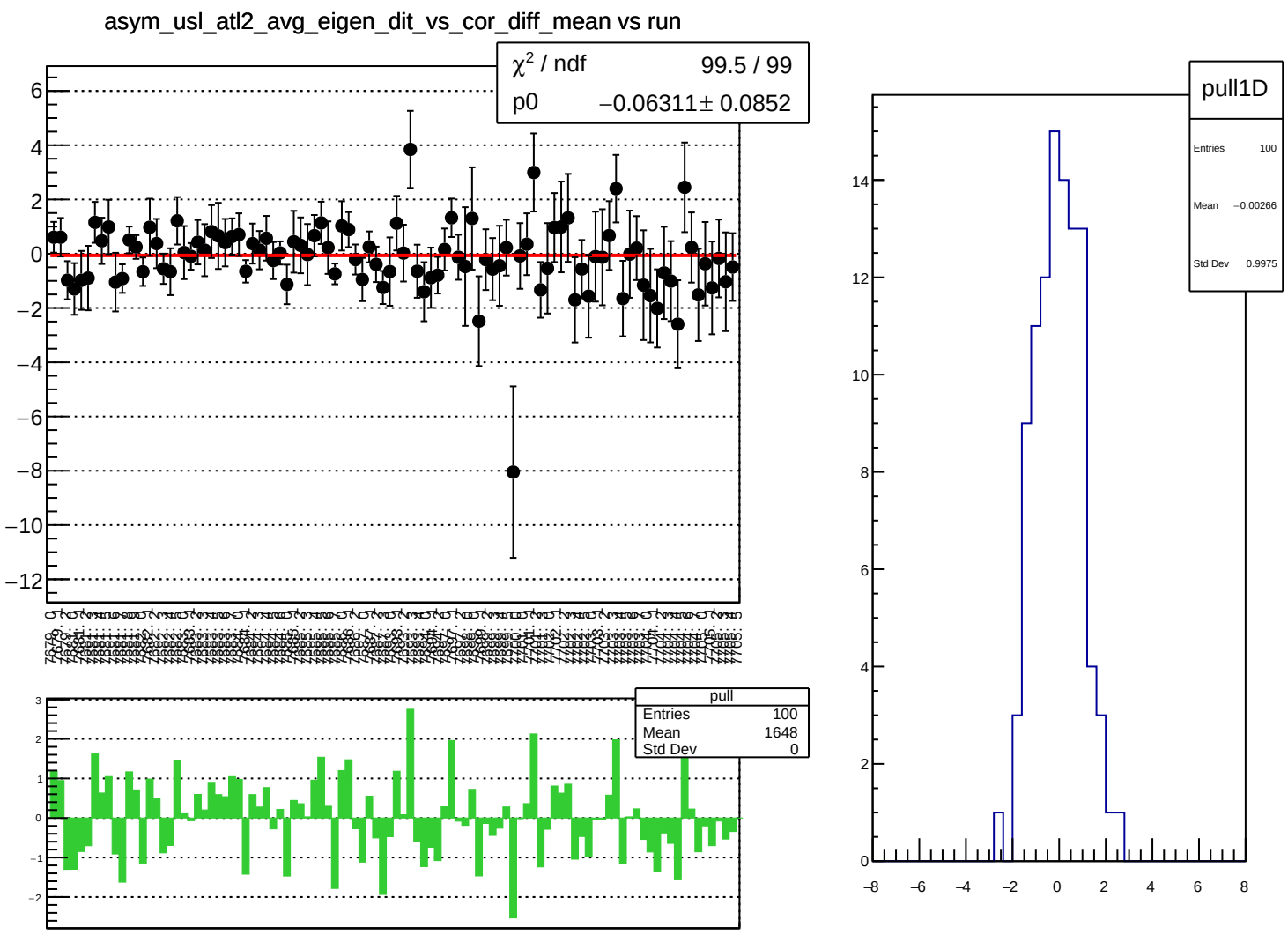

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.5 / 99
p0 −0.06313 ± 0.0852
pull
Entries 100
Mean 1650
Std Dev 0
pull1D
Entries 100
Mean −0.002656
Std Dev 0.9975

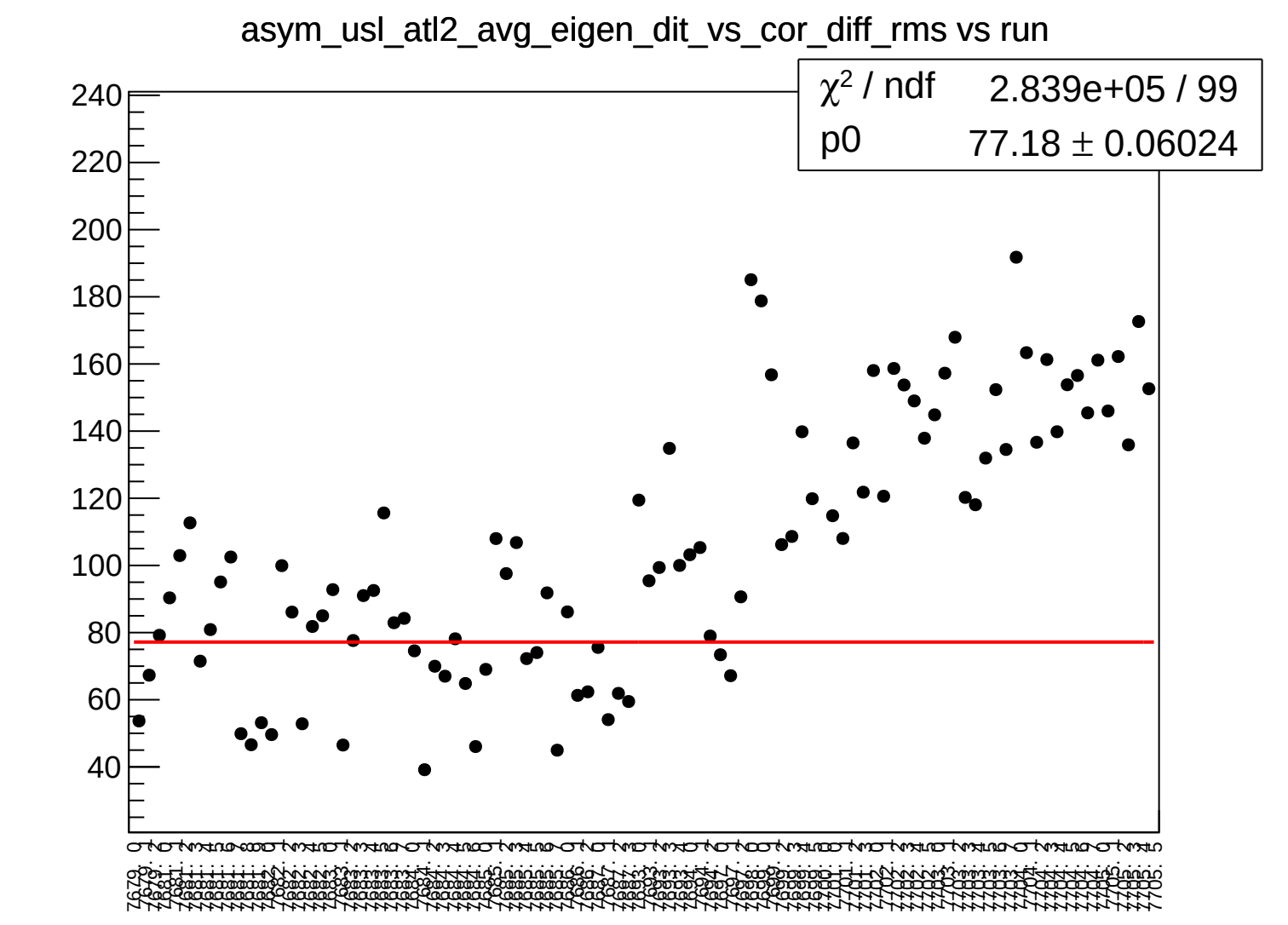

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.839e+05 / 99
p0 77.18 ± 0.06025
240
220
200
180
160
140
120
100
80
60
40

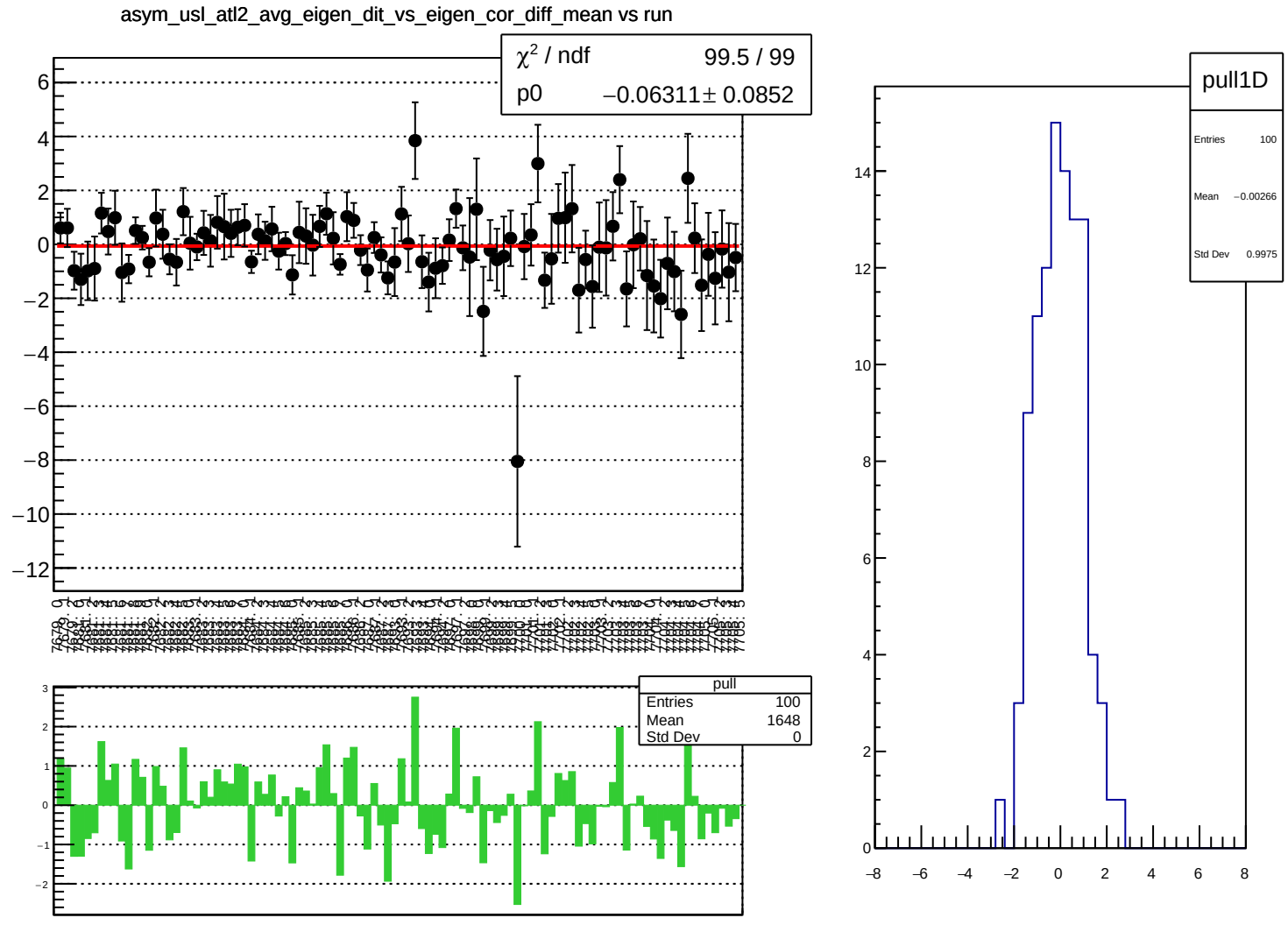

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.27 / 99
p0 −2.433e−06 ± 1.08e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 100
Mean −70.12
Std Dev 0
2
1
0
−1
−2
−3

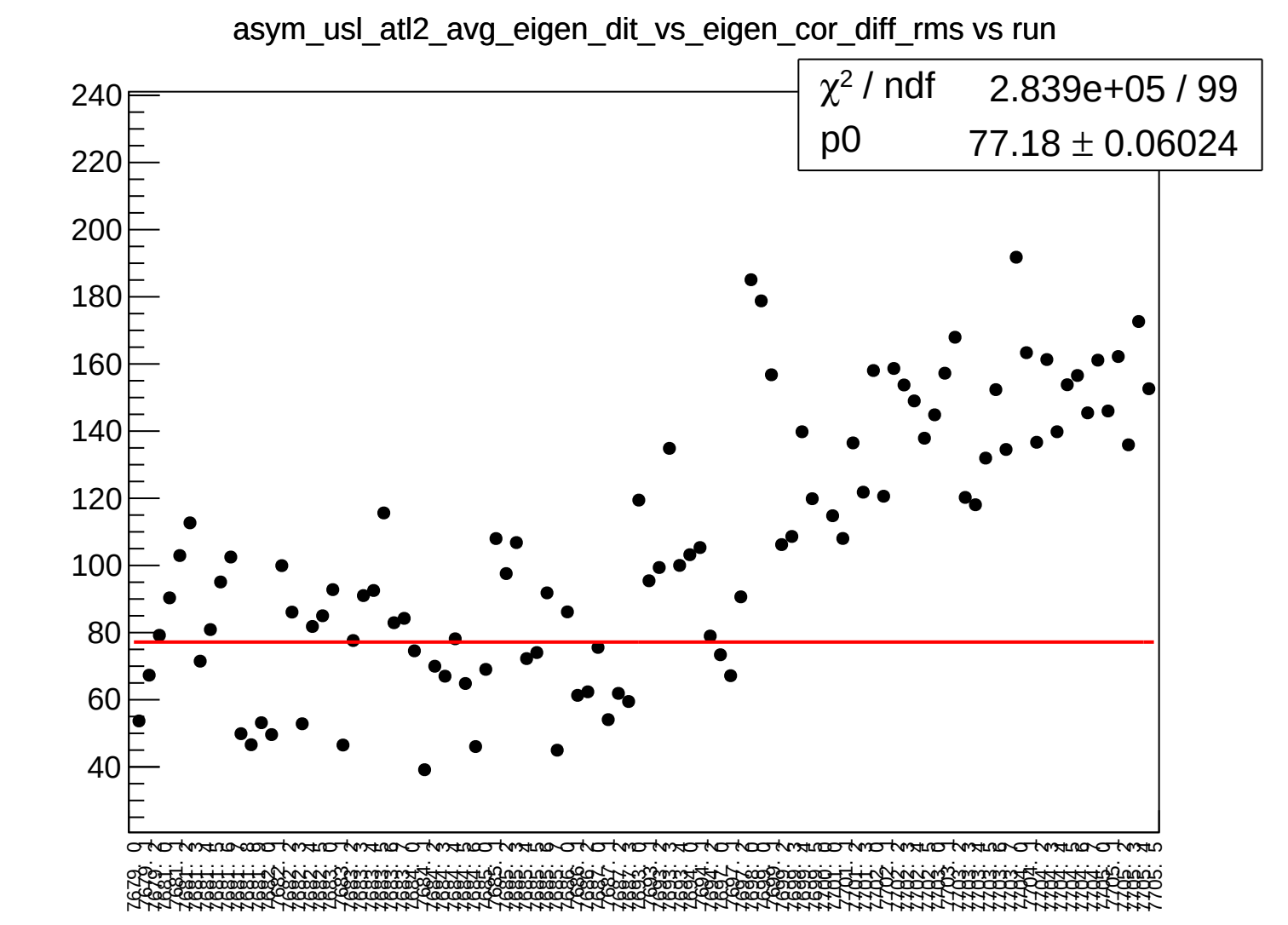

pull1D
Entries 100
Mean 0.02191
Std Dev 0.9339
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

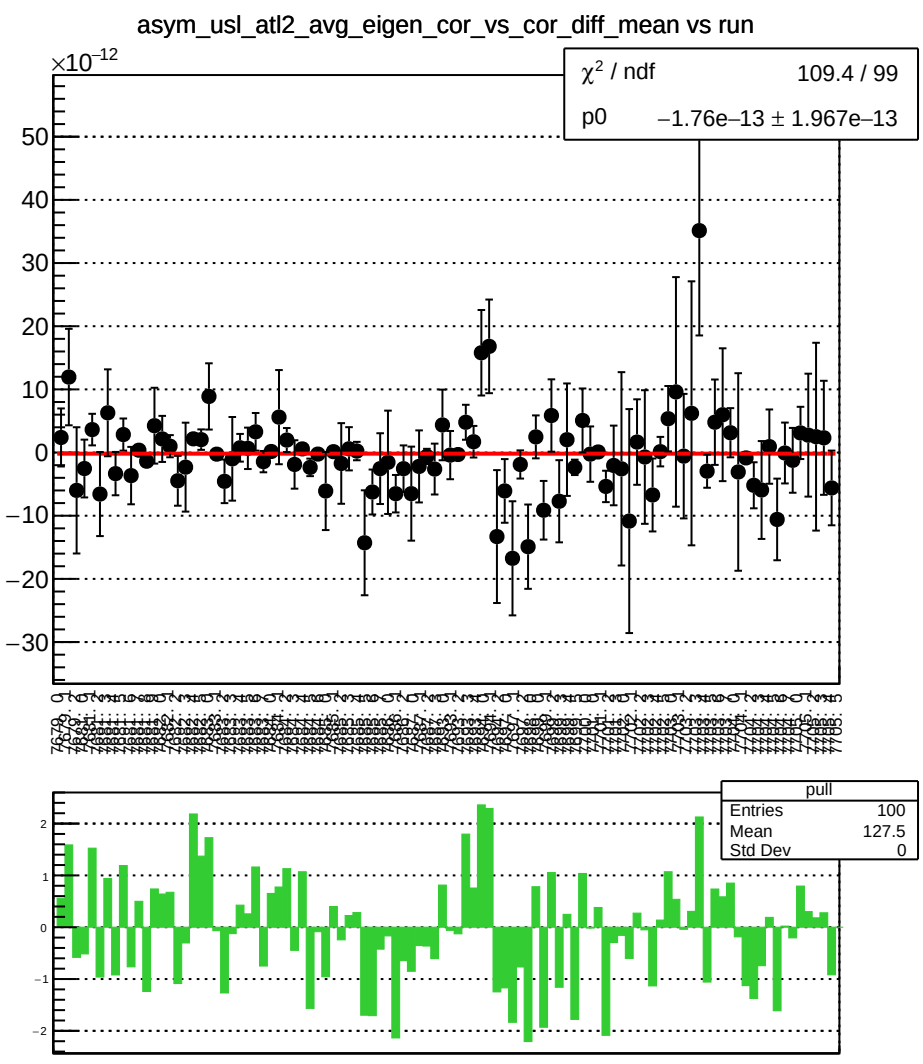

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.373e+04 / 99
p0 0.01045 ± 7.64e−06
0.014
0.012
0.01
0.008
0.006

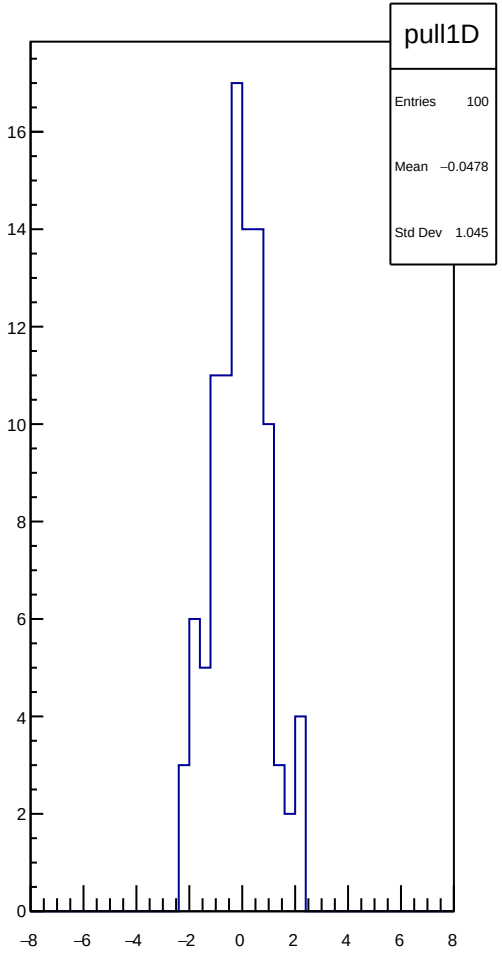

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.5 / 99
p0 −0.06311± 0.0852
pull
Entries 100
Mean 1648
Std Dev 0
pull1D
Entries 100
Mean −0.00266
Std Dev 0.9975

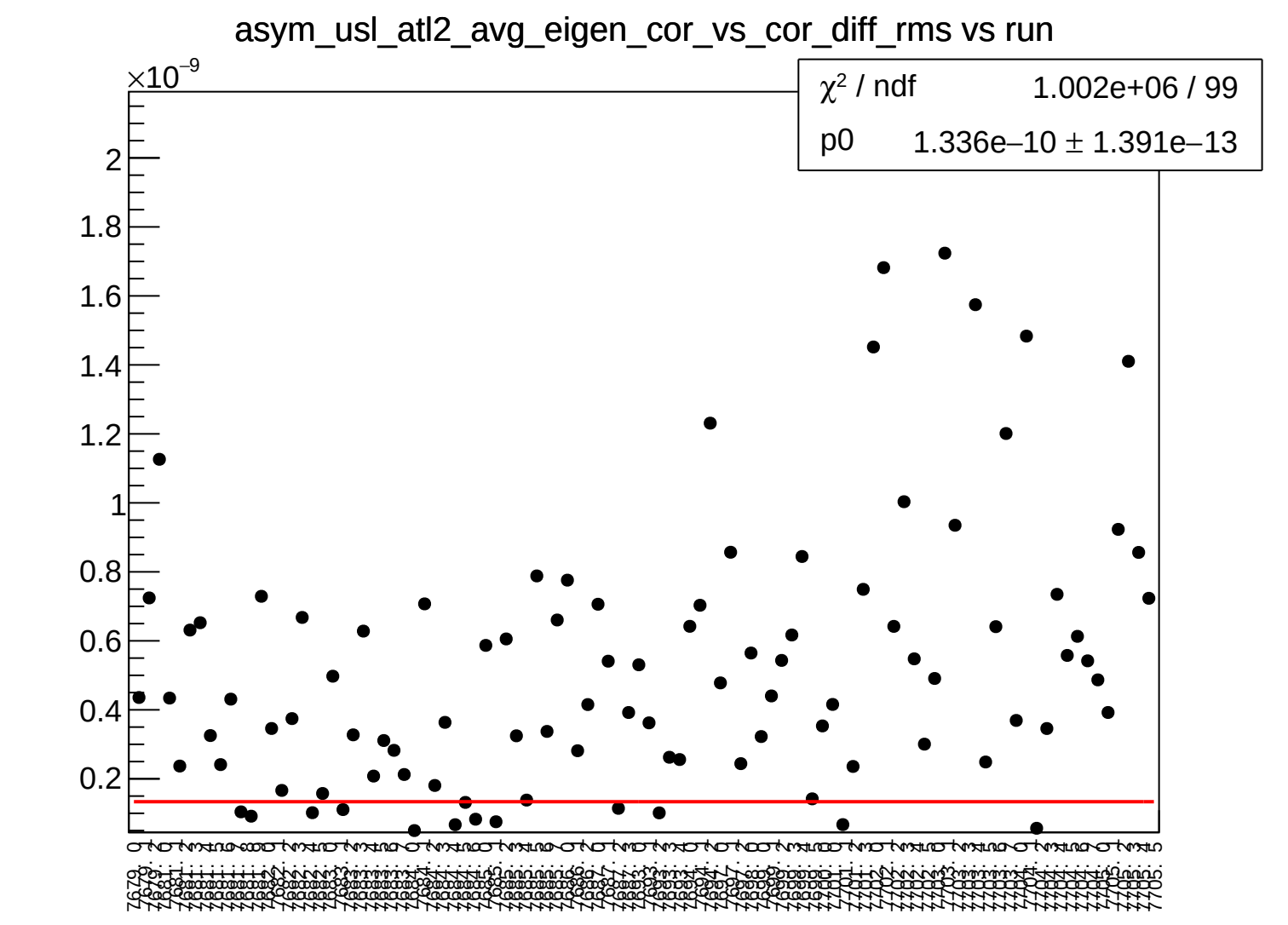

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.839e+05 / 99
p0 77.18 ± 0.06024
240
220
200
180
160
140
120
100
80
60
40

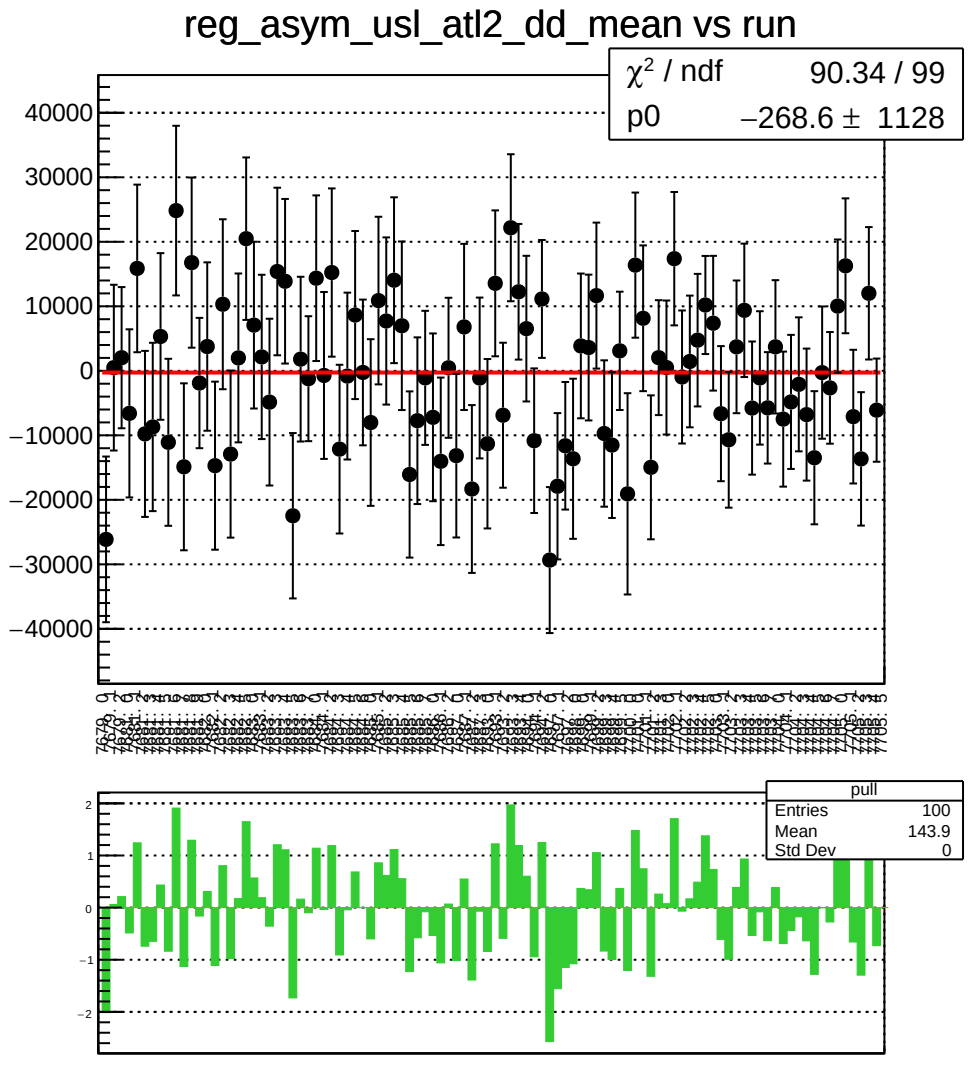

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.5 / 99
p0 −0.06311 ± 0.0852
pull
Entries 100
Mean 1648
Std Dev 0
pull1D
Entries 100
Mean −0.00266
Std Dev 0.9975

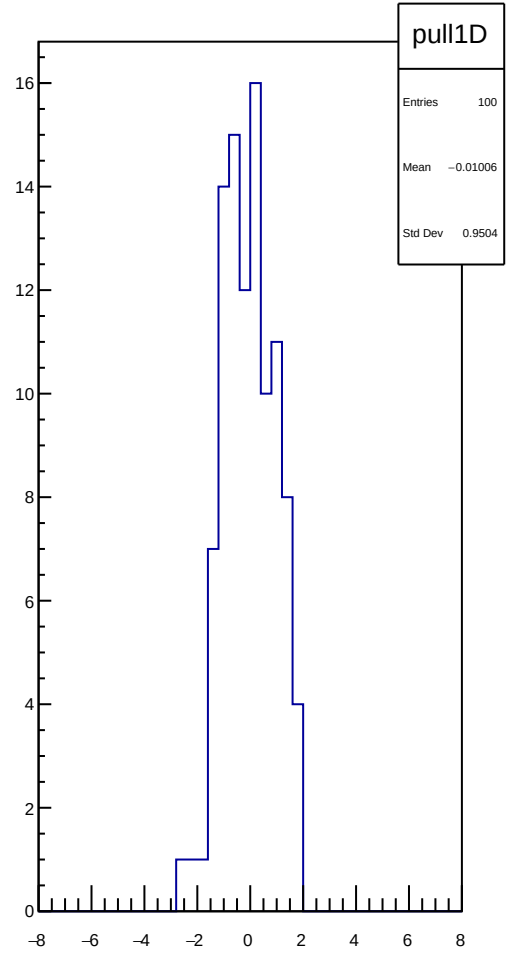

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.839e+05 / 99
p0 77.18 ± 0.06024
240
220
200
180
160
140
120
100
80
60
40

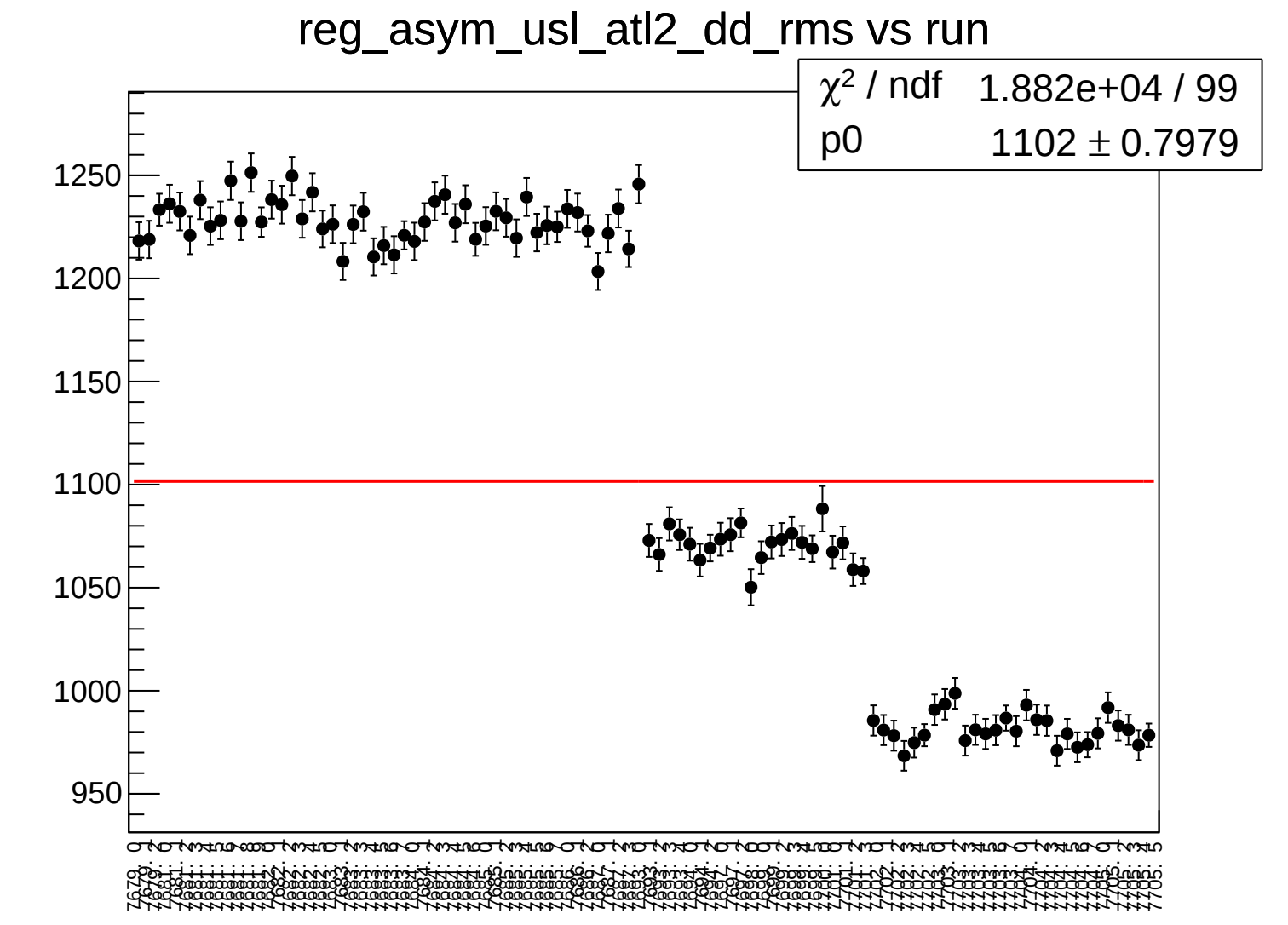

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 109.4 / 99
p0 −1.76e−13 ± 1.967e−13
pull
Entries 100
Mean 127.5
Std Dev 0

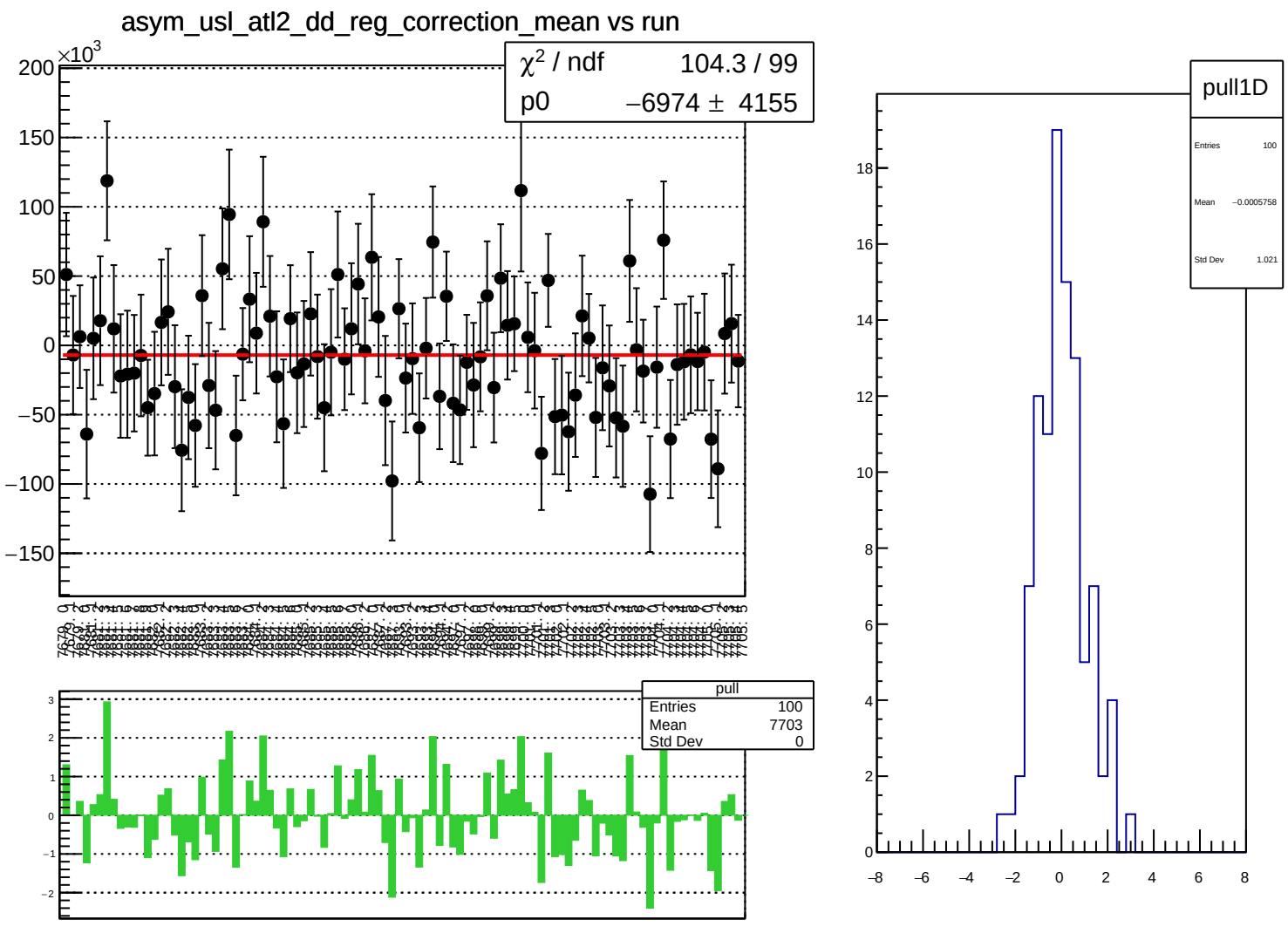

pull1D
Entries 100
Mean −0.0478
Std Dev 1.045

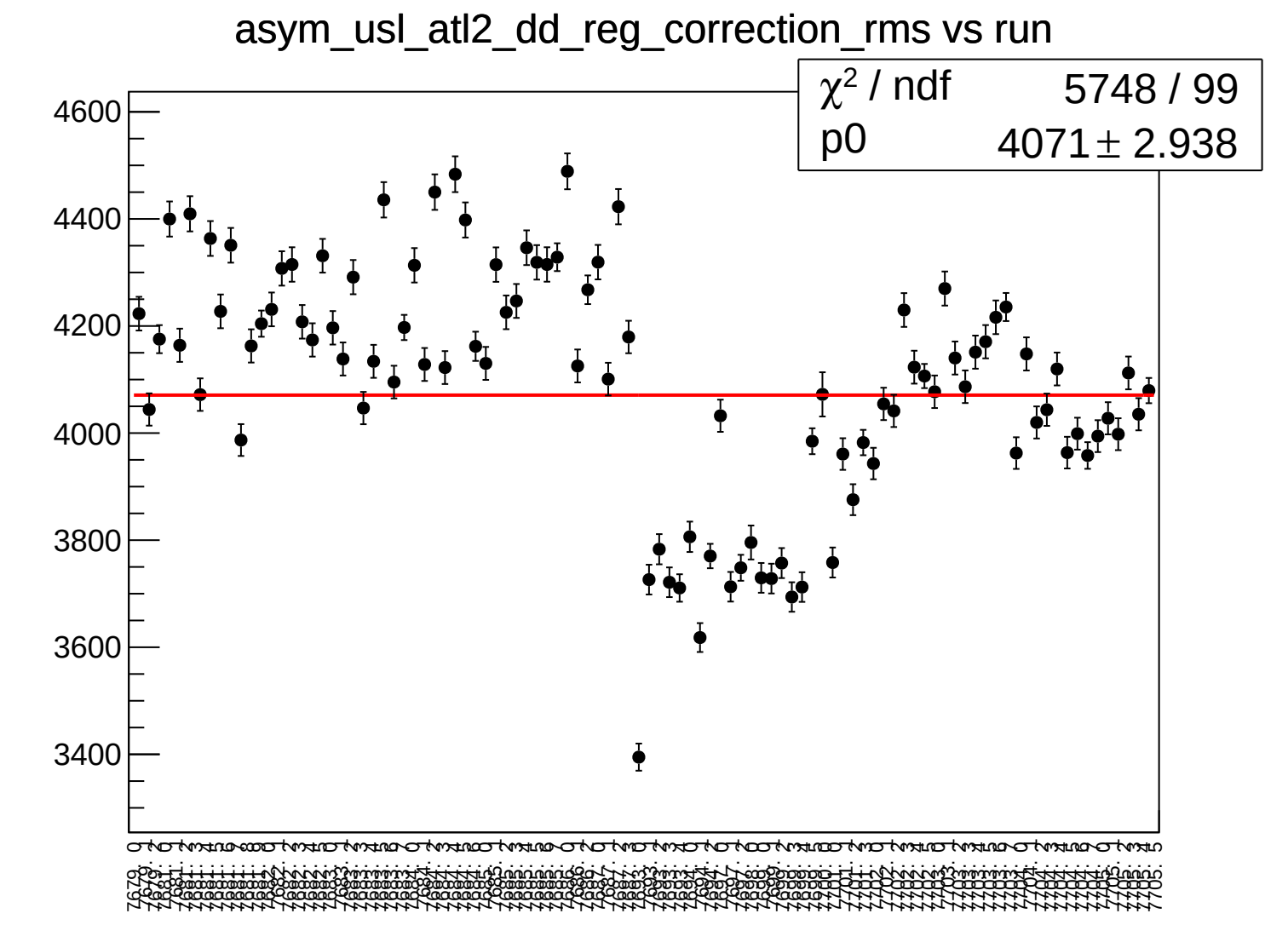

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.002e+06 / 99
p0 1.336e−10 ± 1.391e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

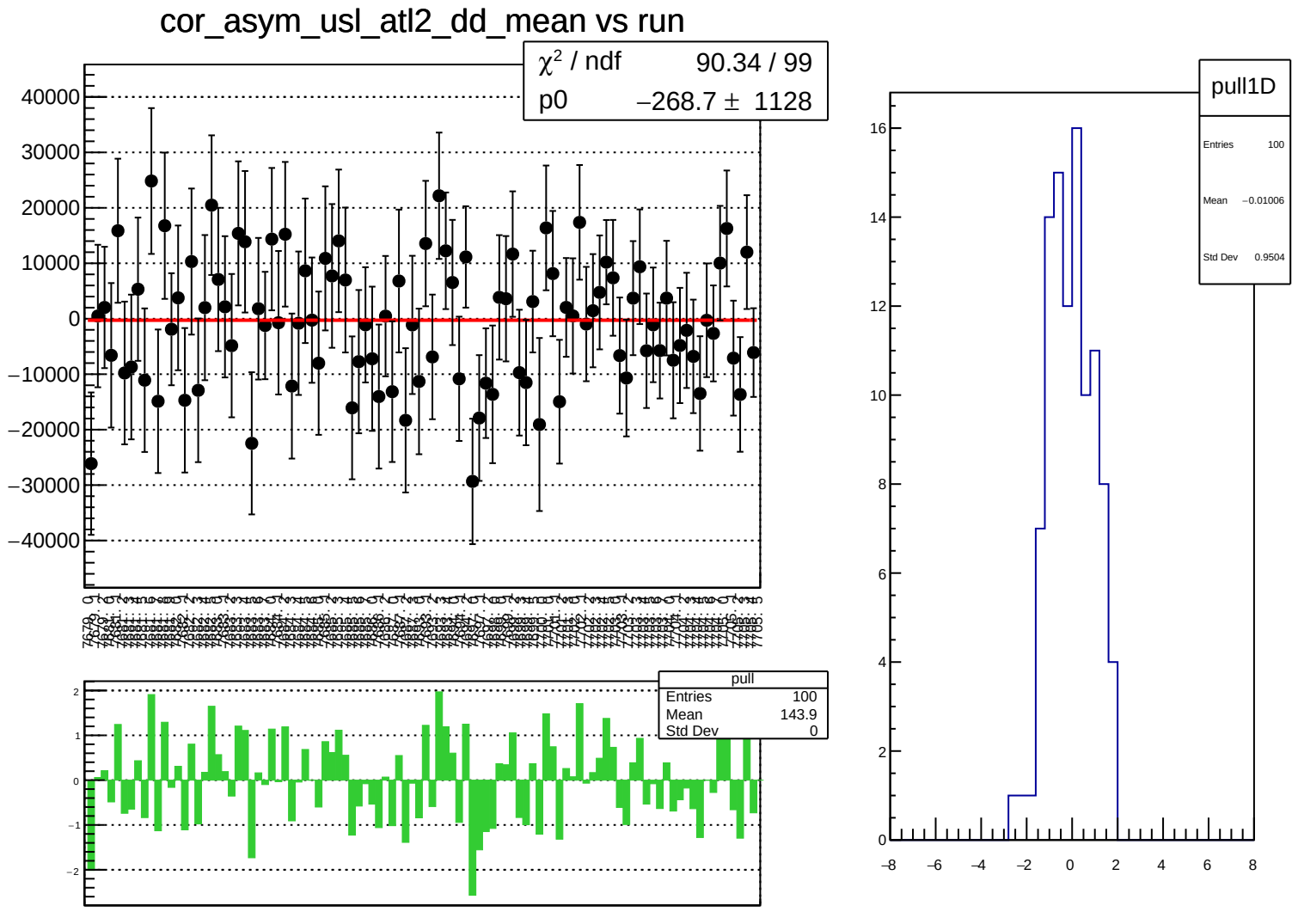

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 90.34 / 99
p0 −268.6 ± 1128
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 100
Mean 143.9
Std Dev 0
2
1
0
−1
−2

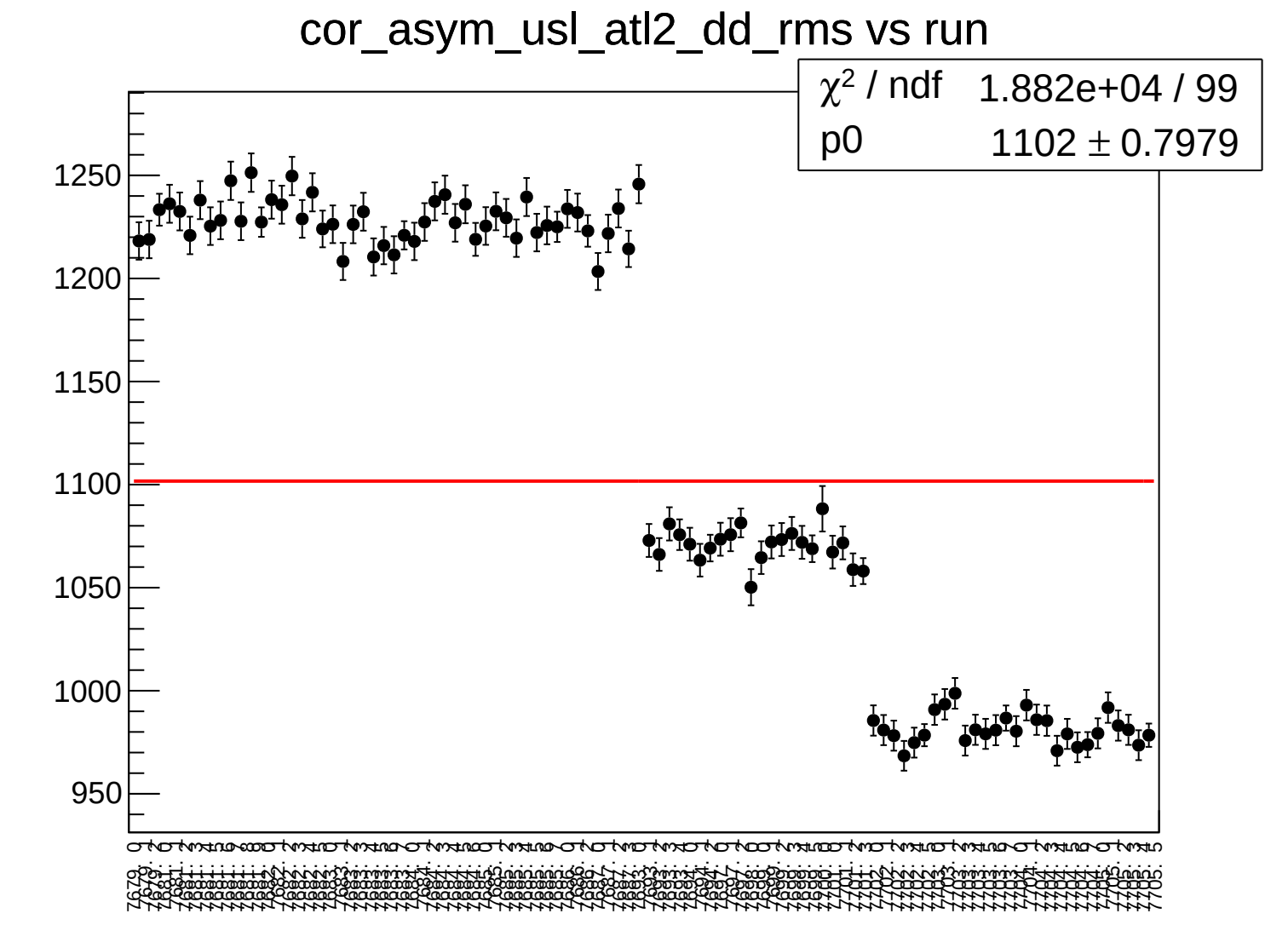

pull1D
Entries 100
Mean −0.01006
Std Dev 0.9504
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

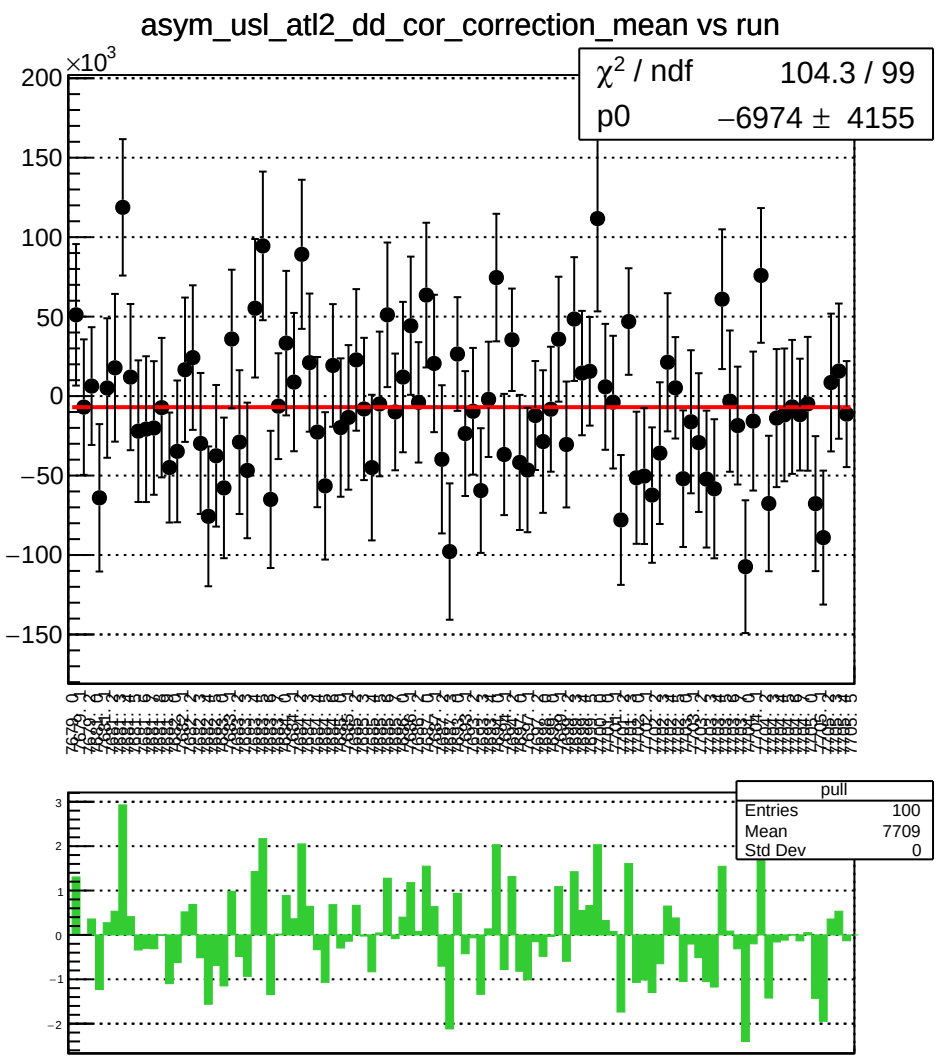

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 1.882e+04 / 99
p0 1102 ± 0.7979
1250
1200
1150
1100
1050
1000
950

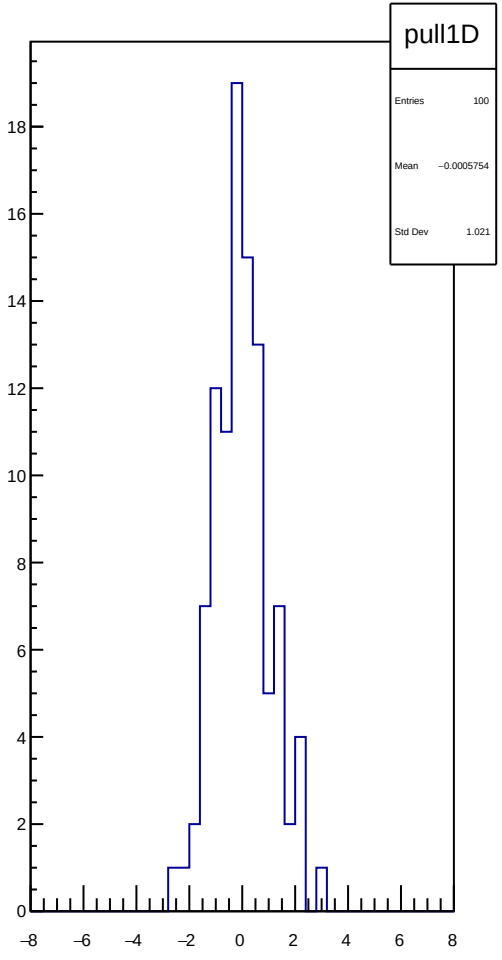

asym_usl_atl2_dd_reg_correction_mean vs run
χ² / ndf 104.3 / 99
p0 −6974 ± 4155
×10³
pull
Entries 100
Mean 7703
Std Dev 0
pull1D
Entries 100
Mean −0.0005758
Std Dev 1.021

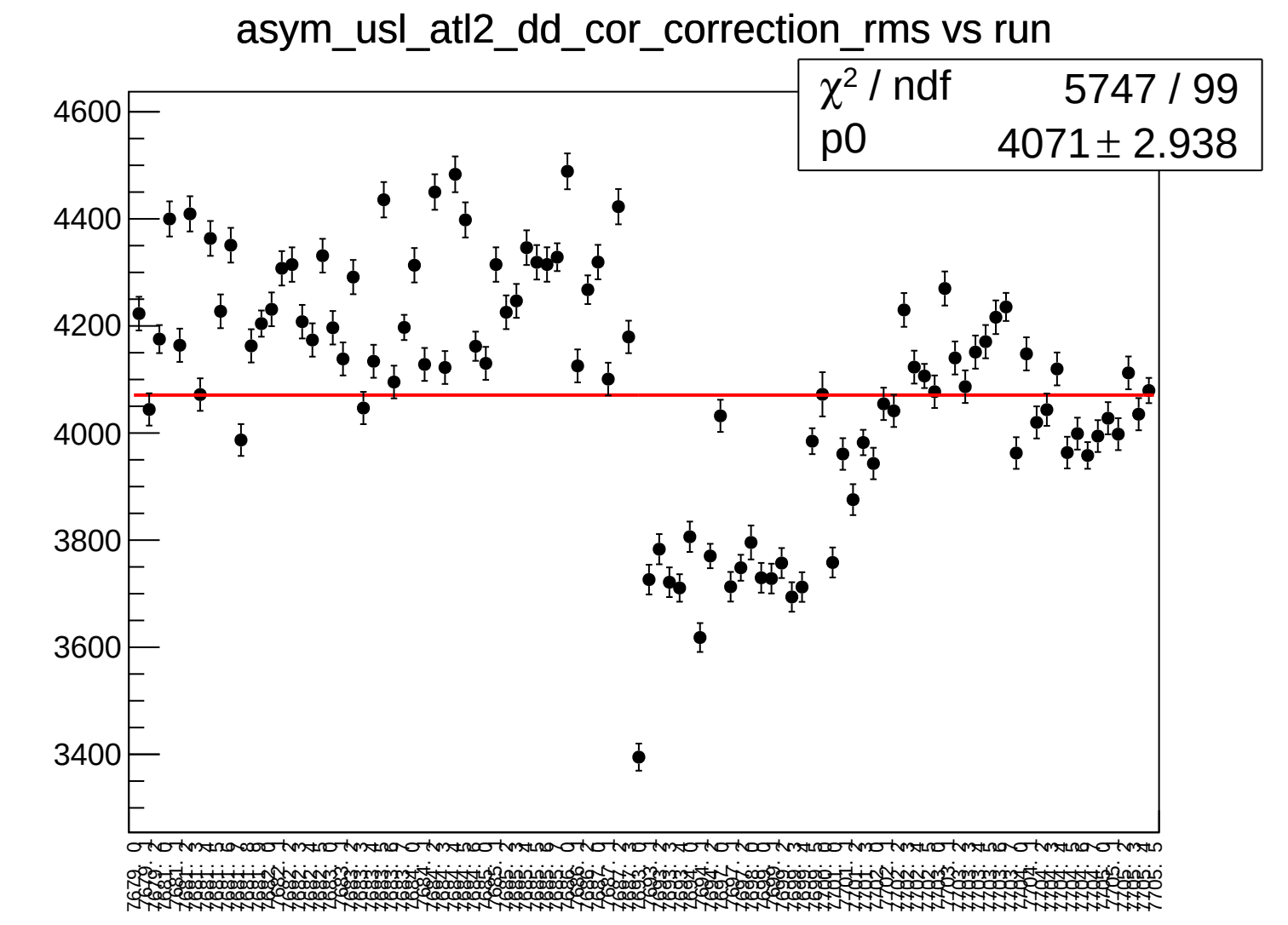

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 5748 / 99
p0 4071 ± 2.938
4600
4400
4200
4000
3800
3600
3400

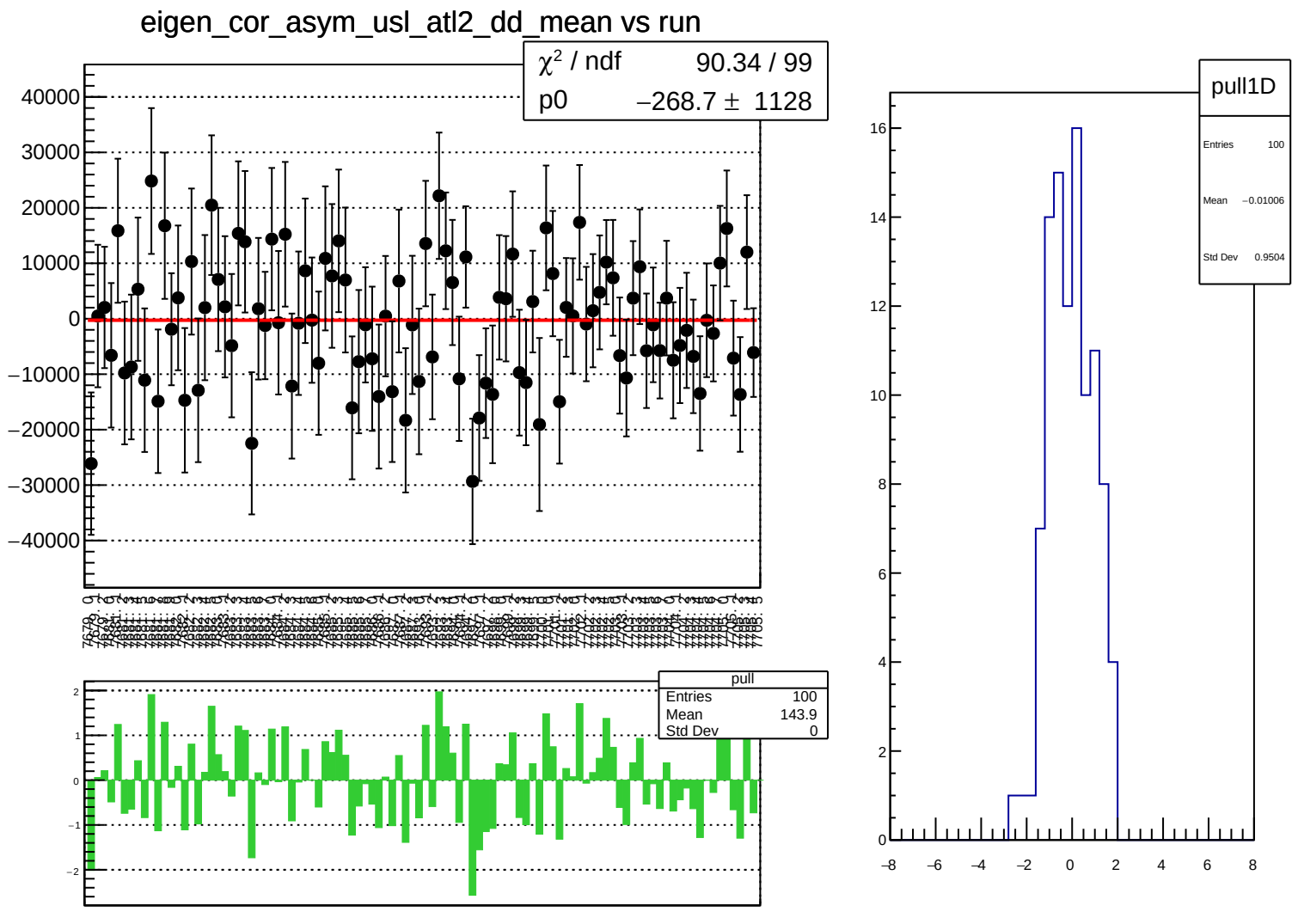

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 90.34 / 99
p0 −268.7 ± 1128
pull
Entries 100
Mean 143.9
Std Dev 0
pull1D
Entries 100
Mean −0.01006
Std Dev 0.9504

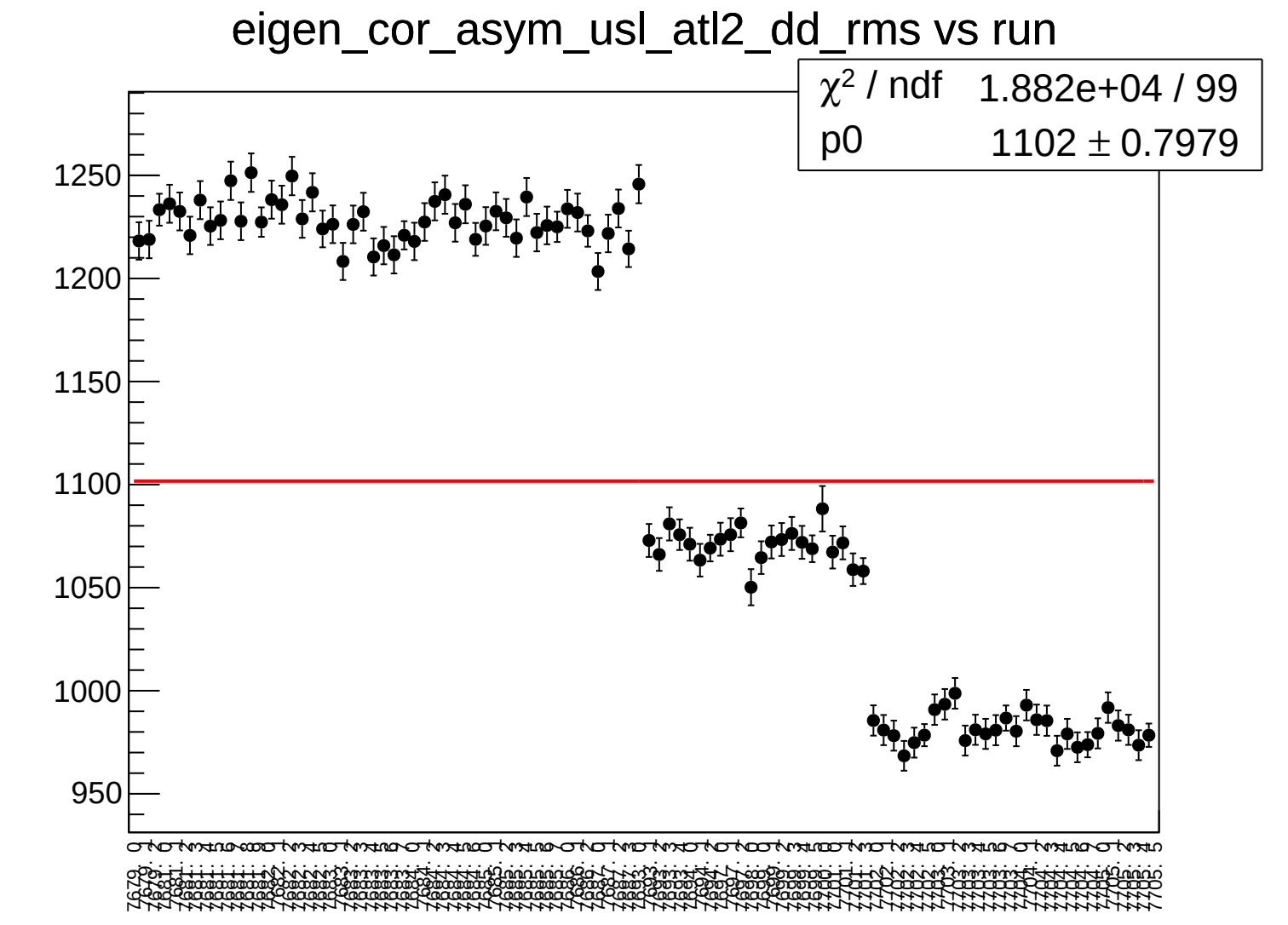

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 1.882e+04 / 99
p0 1102 ± 0.7979
1250
1200
1150
1100
1050
1000
950

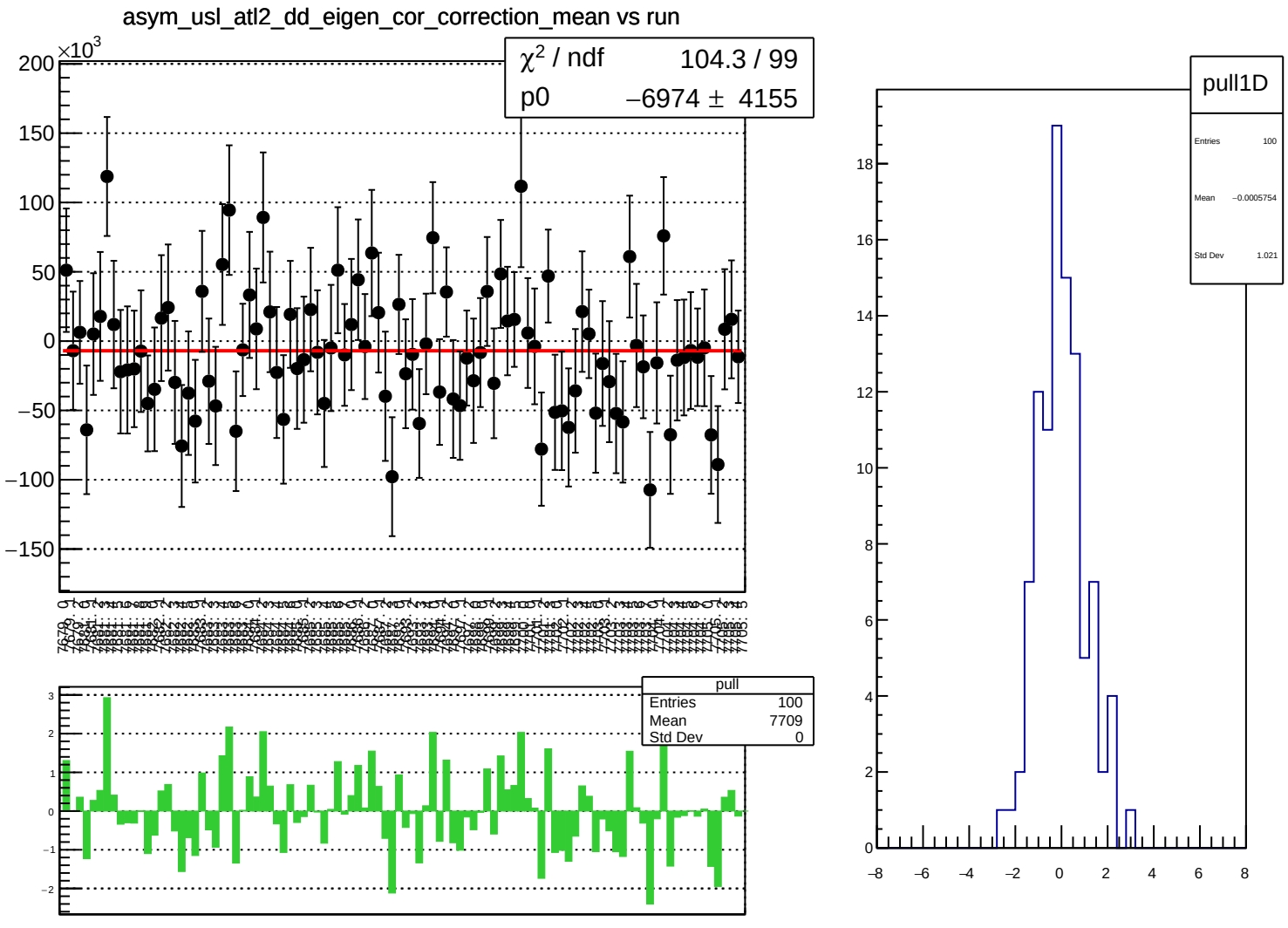

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 104.3 / 99
p0 −6974 ± 4155
pull
Entries 100
Mean 7709
Std Dev 0

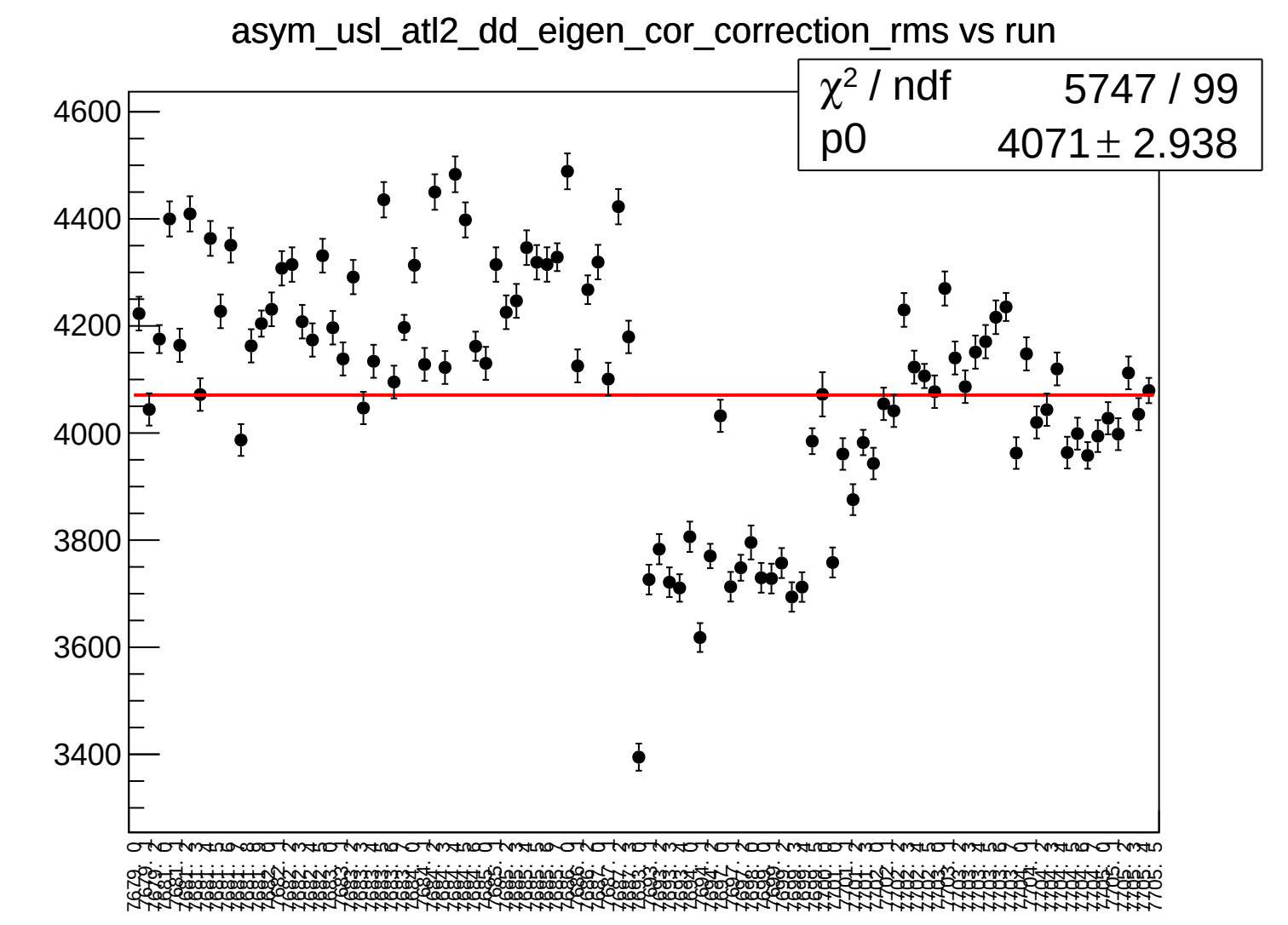

pull1D
Entries 100
Mean −0.0005754
Std Dev 1.021

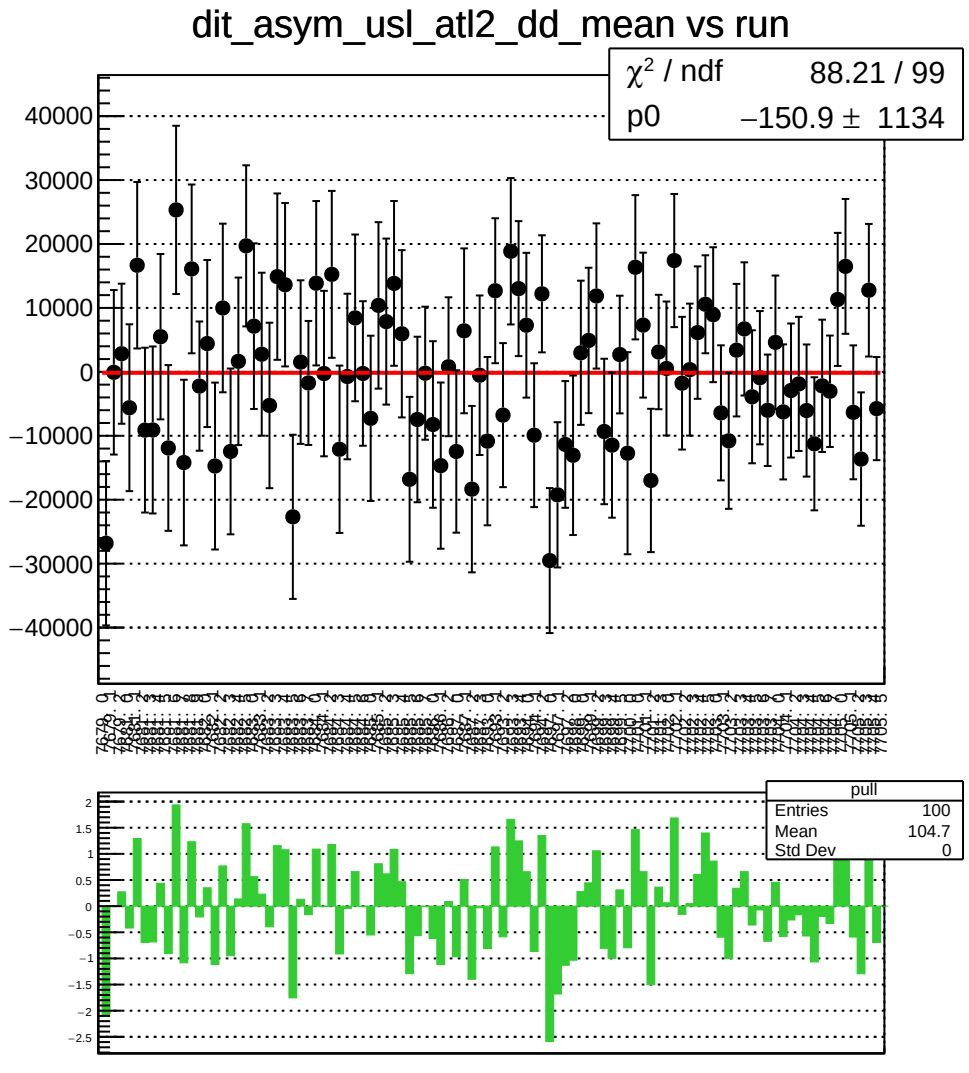

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 5747 / 99
p0 4071 ± 2.938
4600
4400
4200
4000
3800
3600
3400

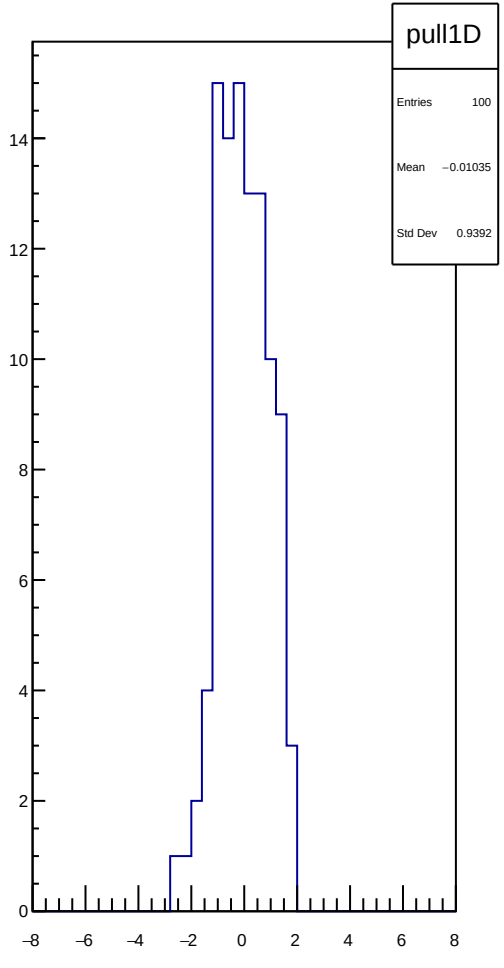

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 90.34 / 99
p0 −268.7 ± 1128
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 100
Mean 143.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.01006
Std Dev 0.9504
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

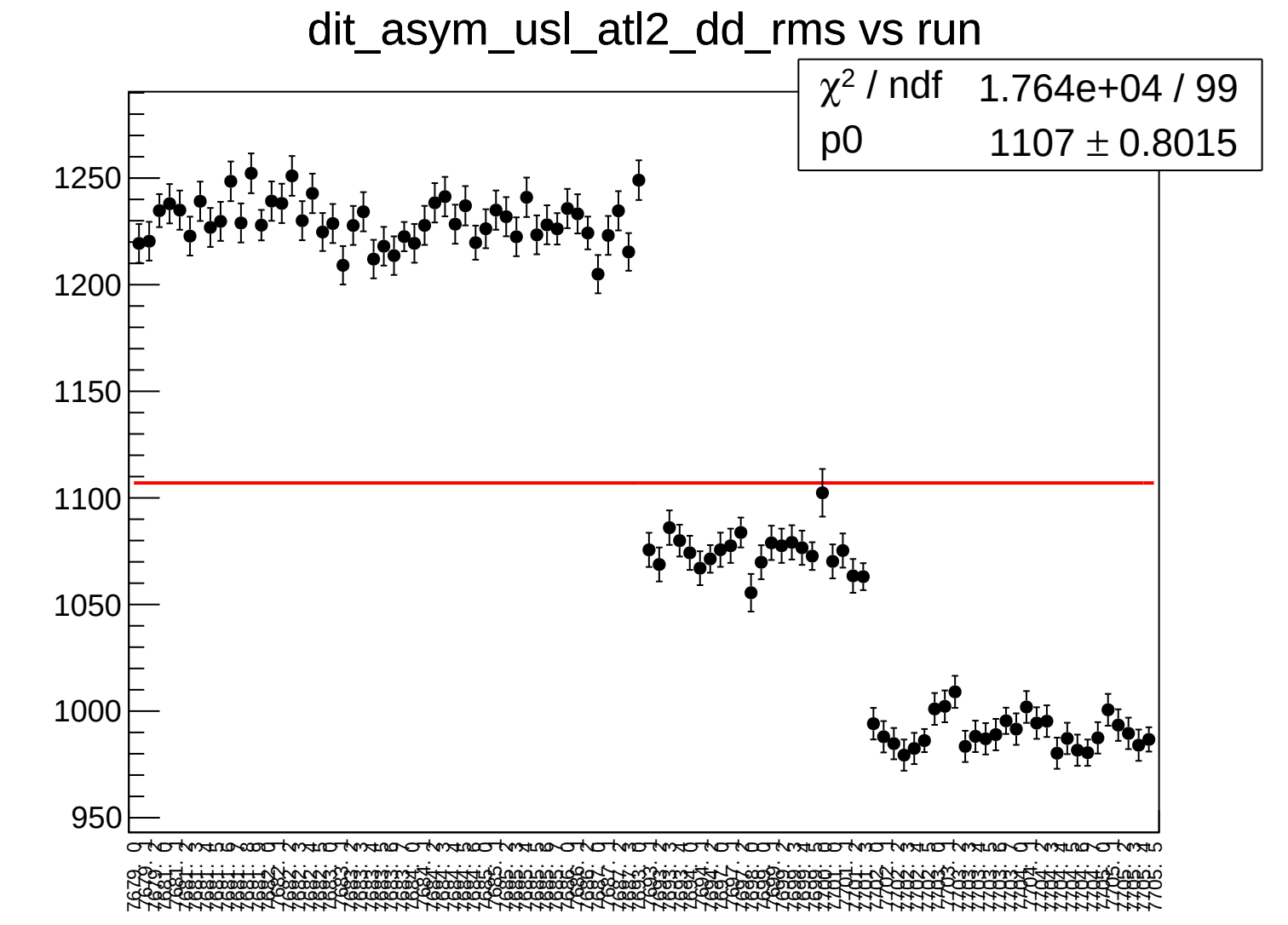

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 1.882e+04 / 99
p0 1102 ± 0.7979
1250
1200
1150
1100
1050
1000
950

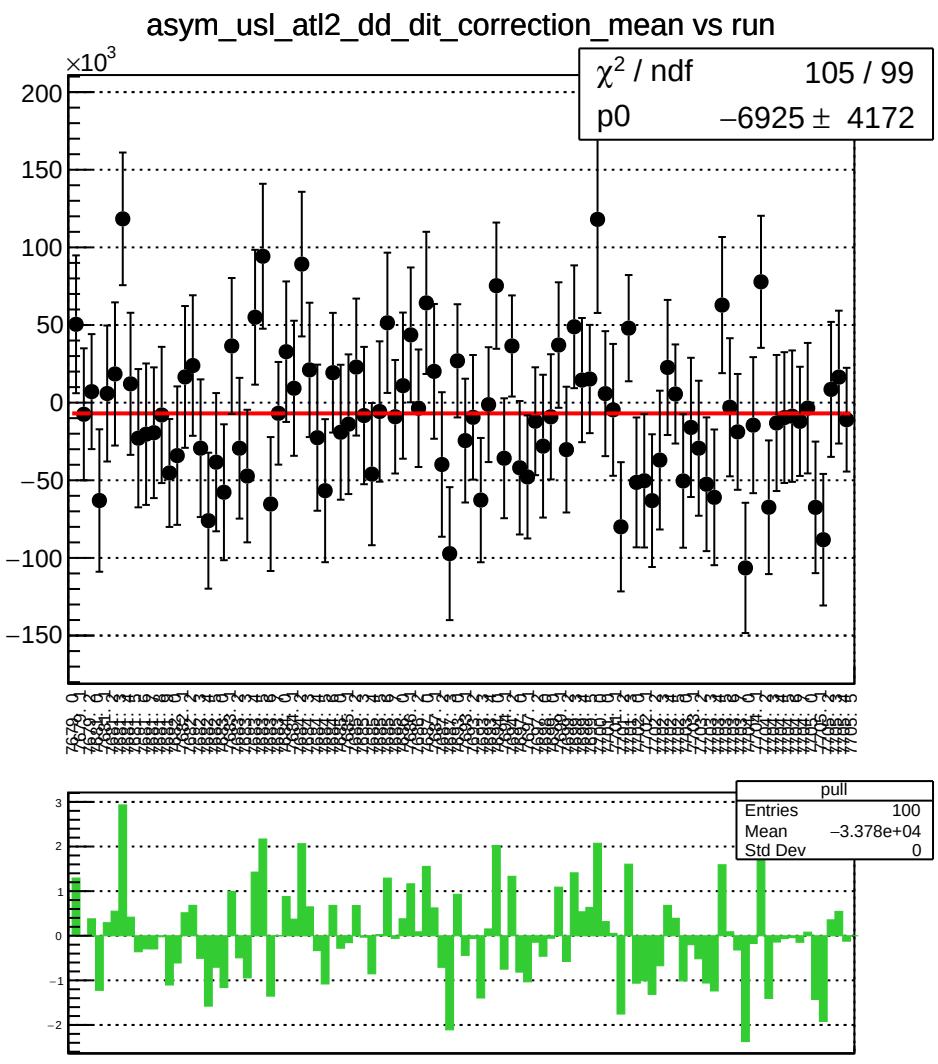

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 104.3 / 99
p0 −6974 ± 4155
pull
Entries 100
Mean 7709
Std Dev 0
pull1D
Entries 100
Mean −0.0005754
Std Dev 1.021

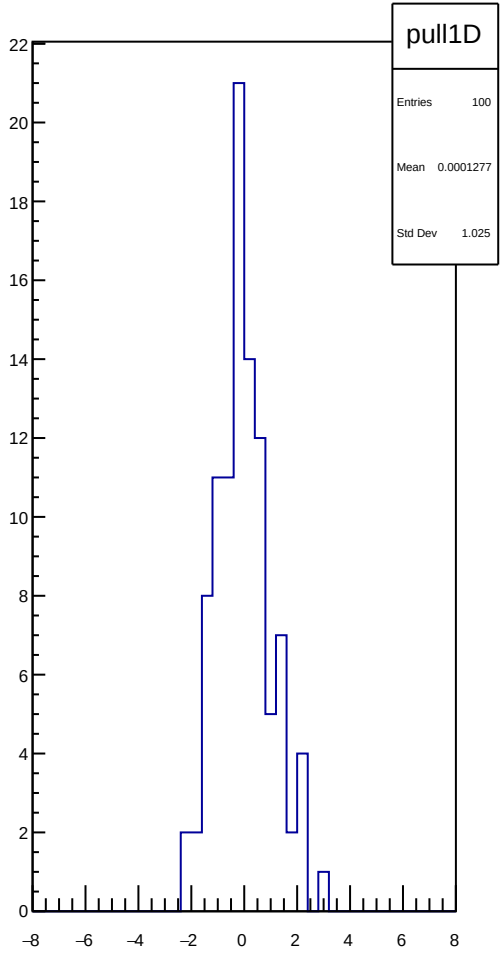

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 5747 / 99
p0 4071 ± 2.938
4600
4400
4200
4000
3800
3600
3400

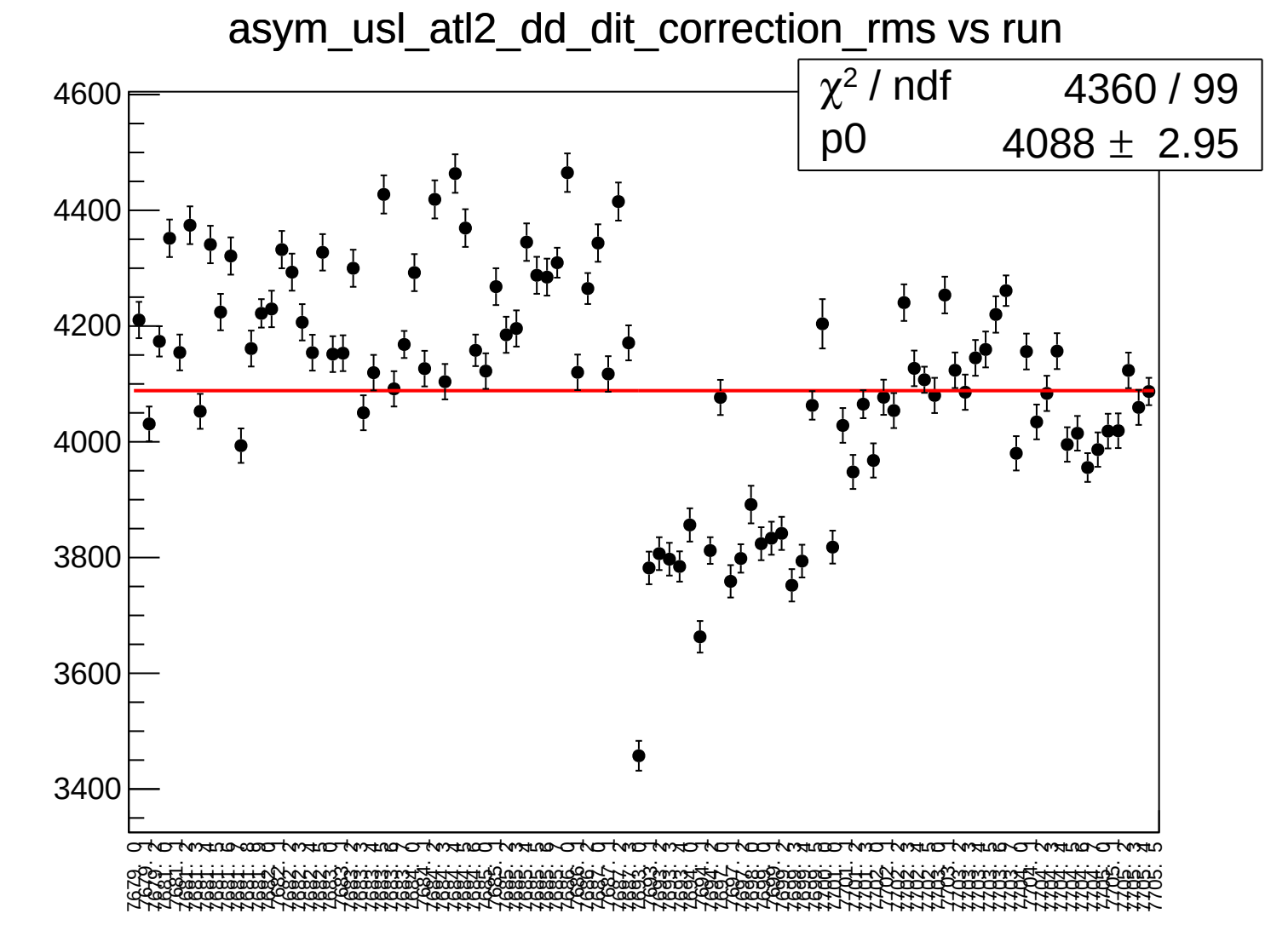

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 88.21 / 99
p0 −150.9 ± 1134
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 100
Mean 104.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

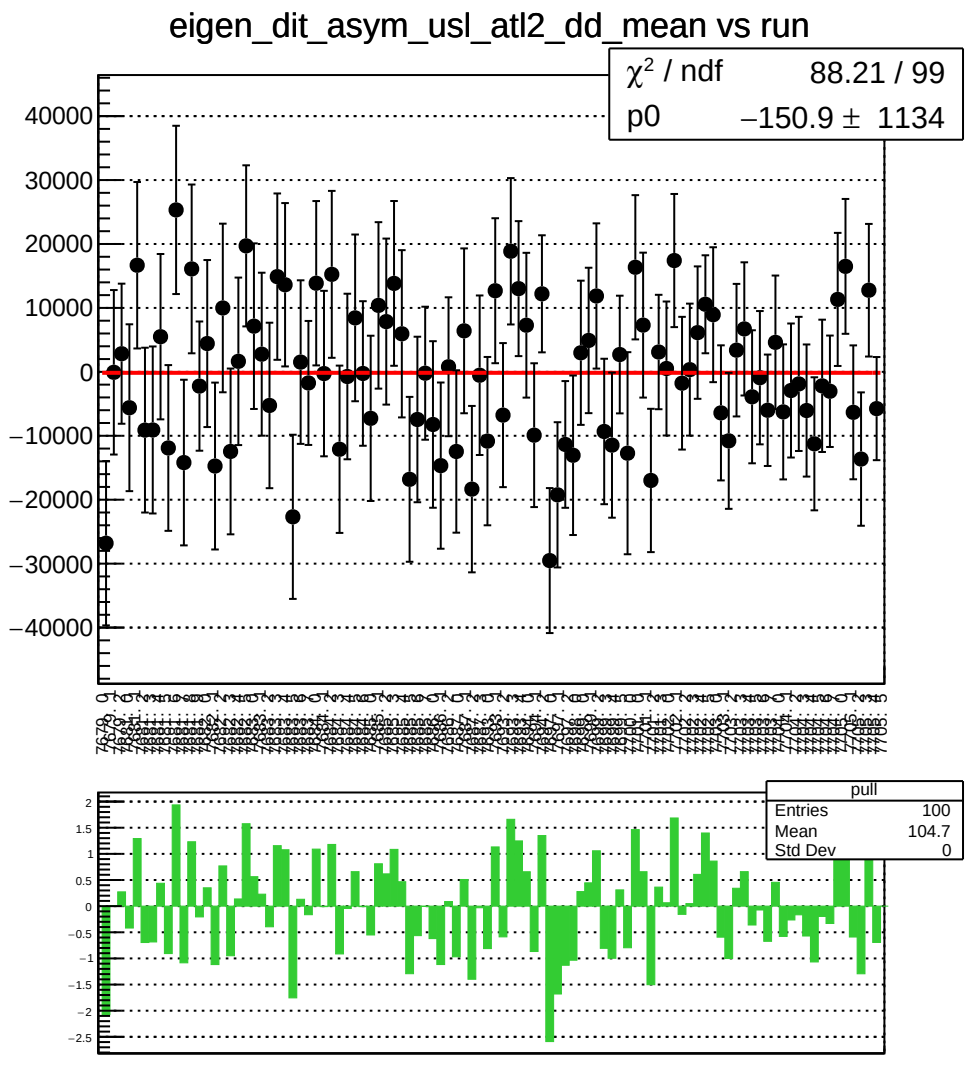

pull1D
Entries 100
Mean −0.01035
Std Dev 0.9392
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

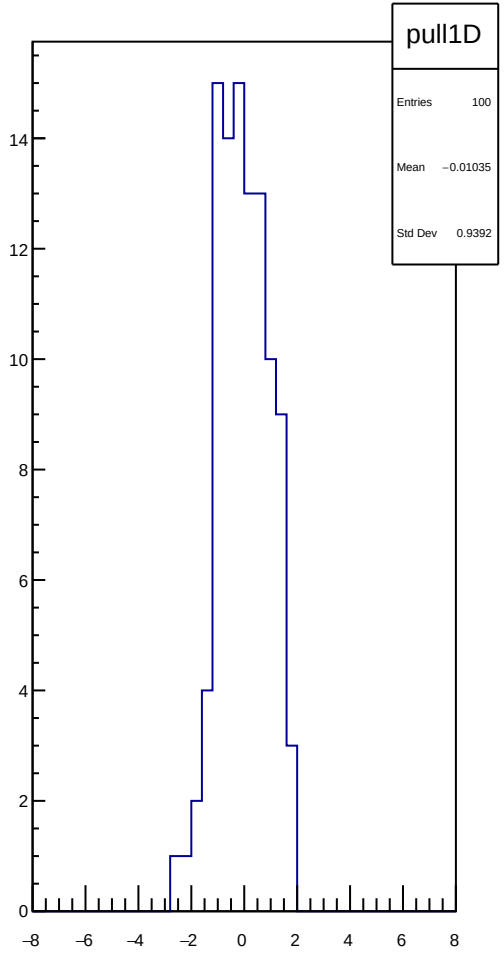

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 1.764e+04 / 99
p0 1107 ± 0.8015
1250
1200
1150
1100
1050
1000
950

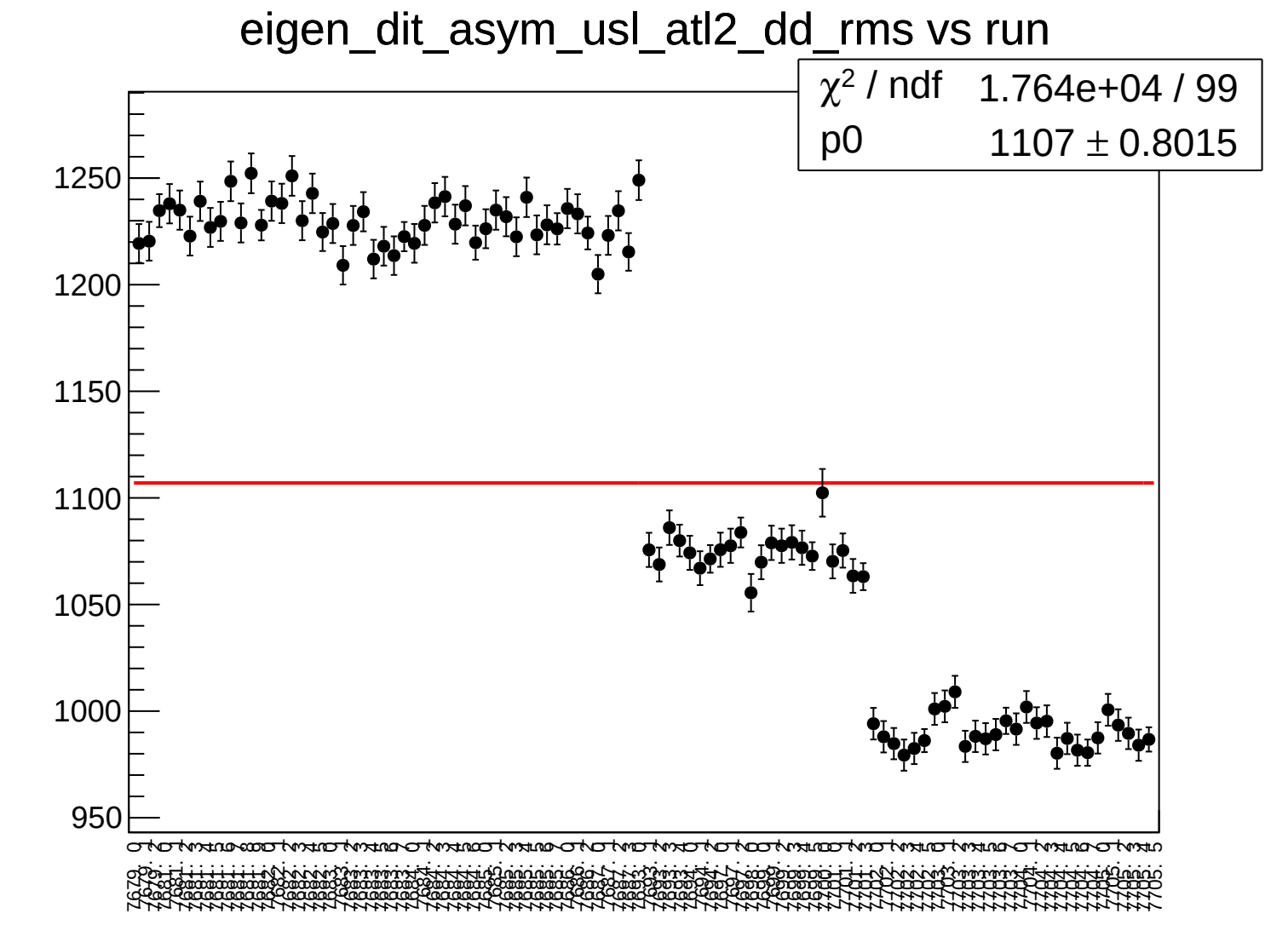

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 105 / 99
p0 −6925 ± 4172
200
150
100
50
0
−50
−100
−150
pull
Entries 100
Mean −3.378e+04
Std Dev 0
3
2
1
0
−1
−2

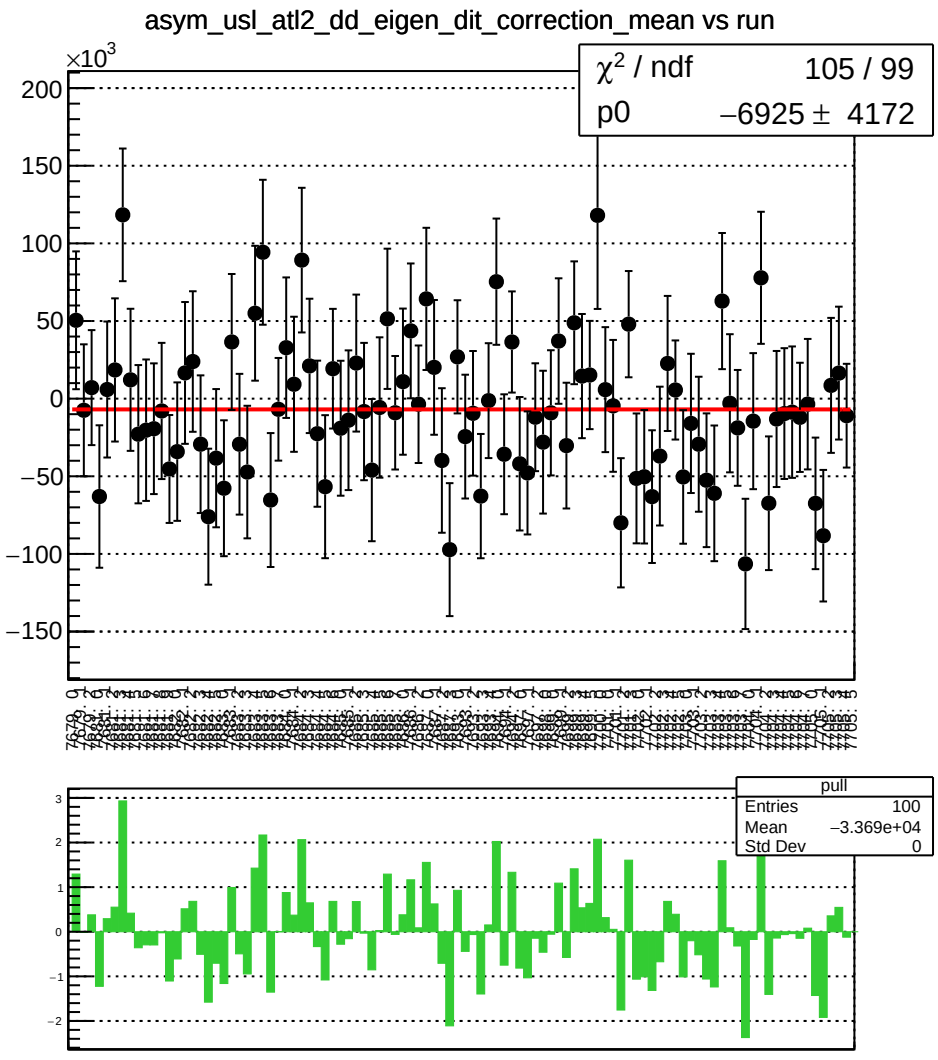

pull1D
Entries 100
Mean 0.0001277
Std Dev 1.025
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

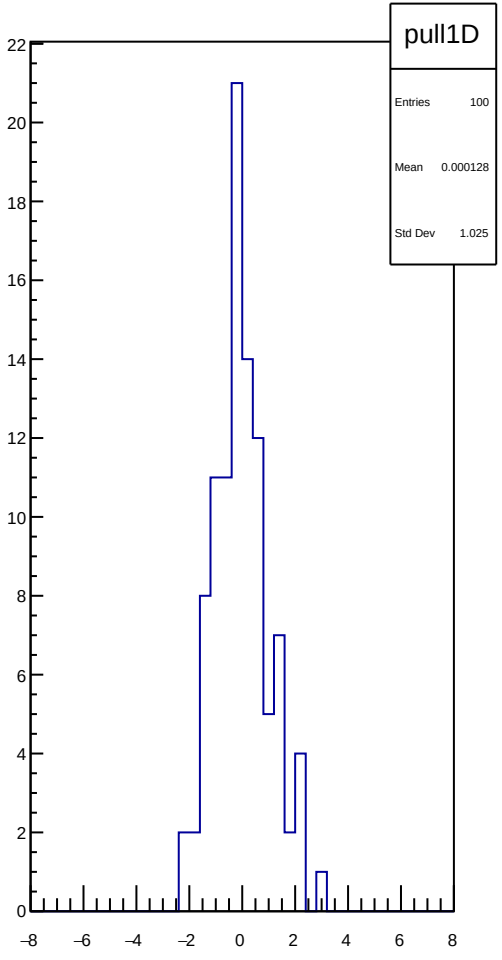

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 4360 / 99
p0 4088 ± 2.95
4600
4400
4200
4000
3800
3600
3400

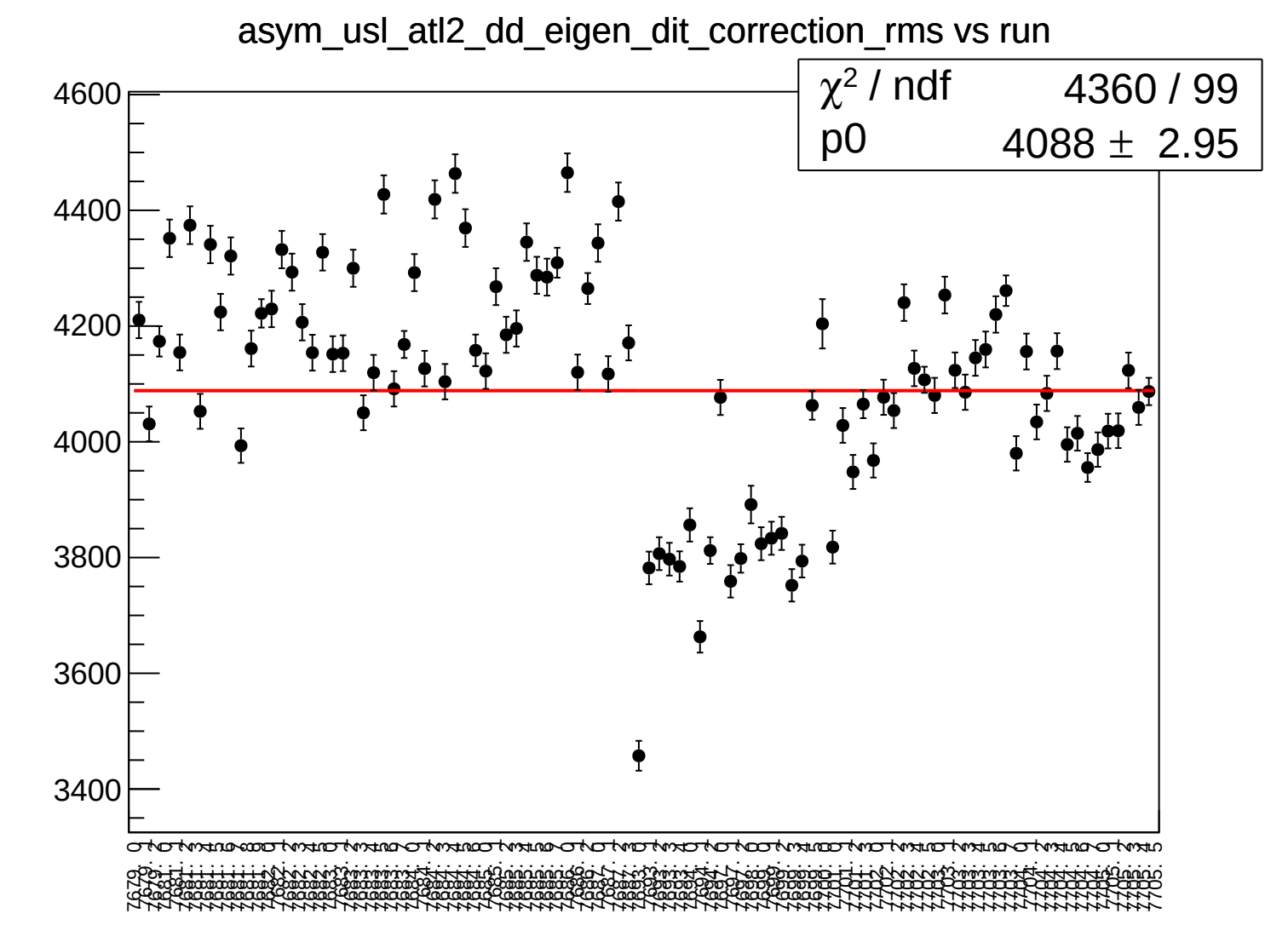

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 88.21 / 99
p0 −150.9 ± 1134
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 100
Mean 104.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

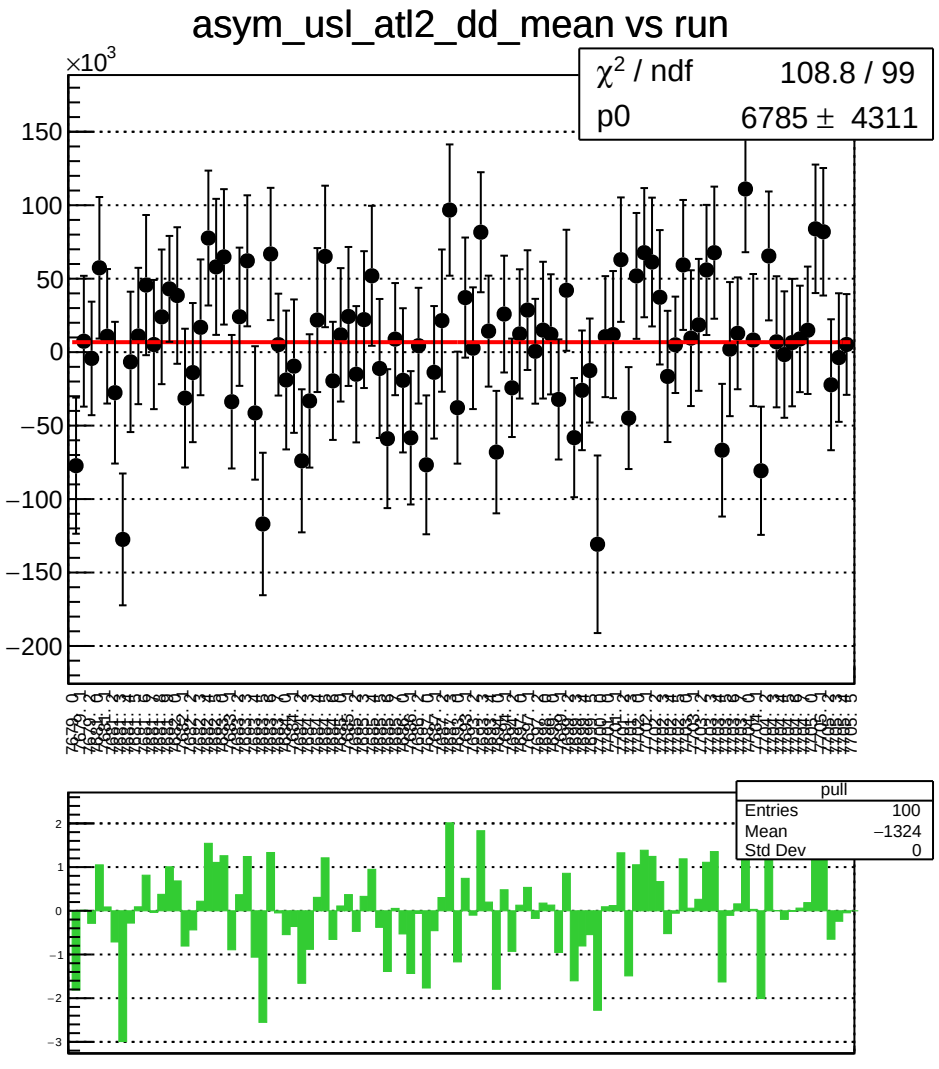

pull1D
Entries 100
Mean −0.01035
Std Dev 0.9392
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

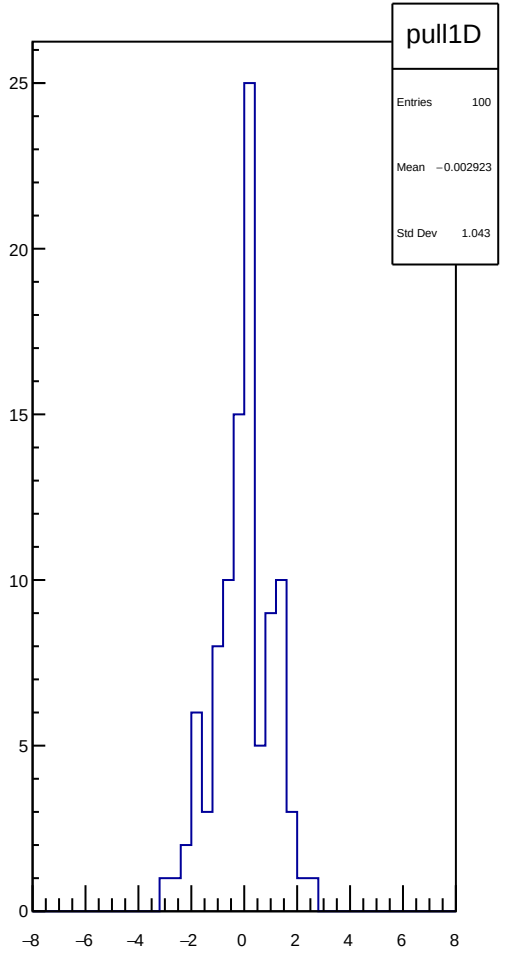

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 1.764e+04 / 99
p0 1107 ± 0.8015
1250
1200
1150
1100
1050
1000
950

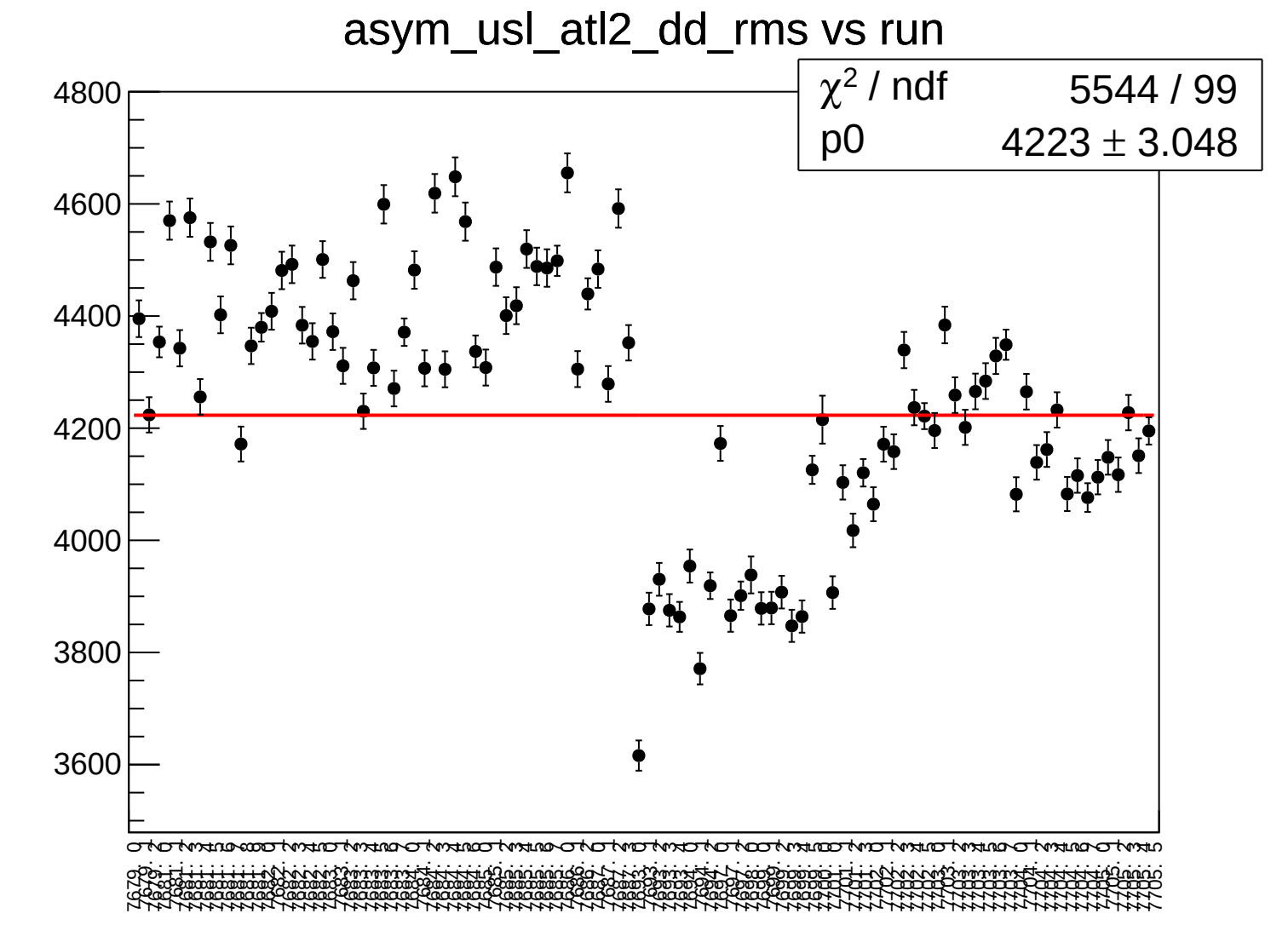

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 105 / 99
p0 −6925 ± 4172
pull
Entries 100
Mean −3.369e+04
Std Dev 0

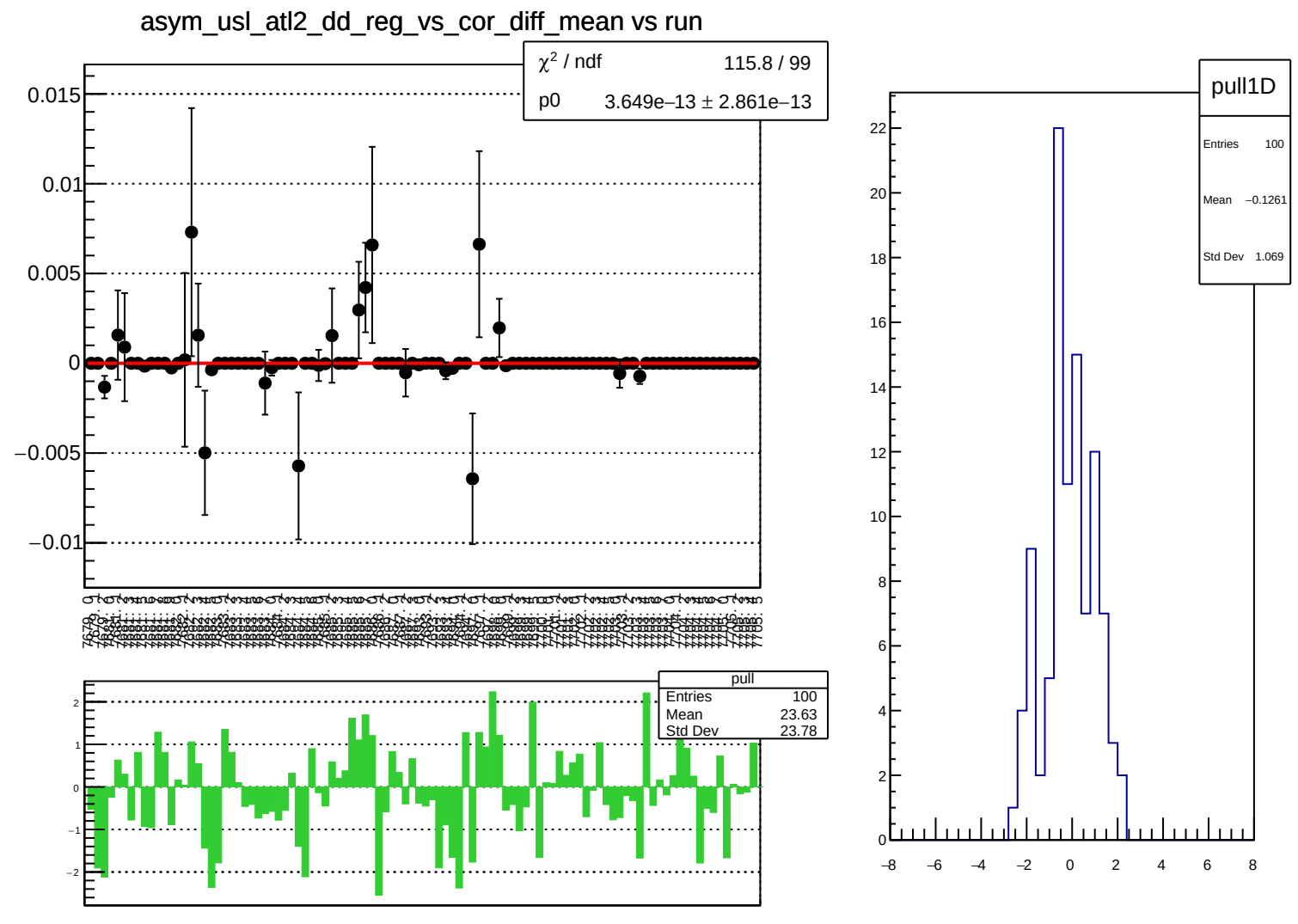

pull1D
Entries 100
Mean 0.000128
Std Dev 1.025

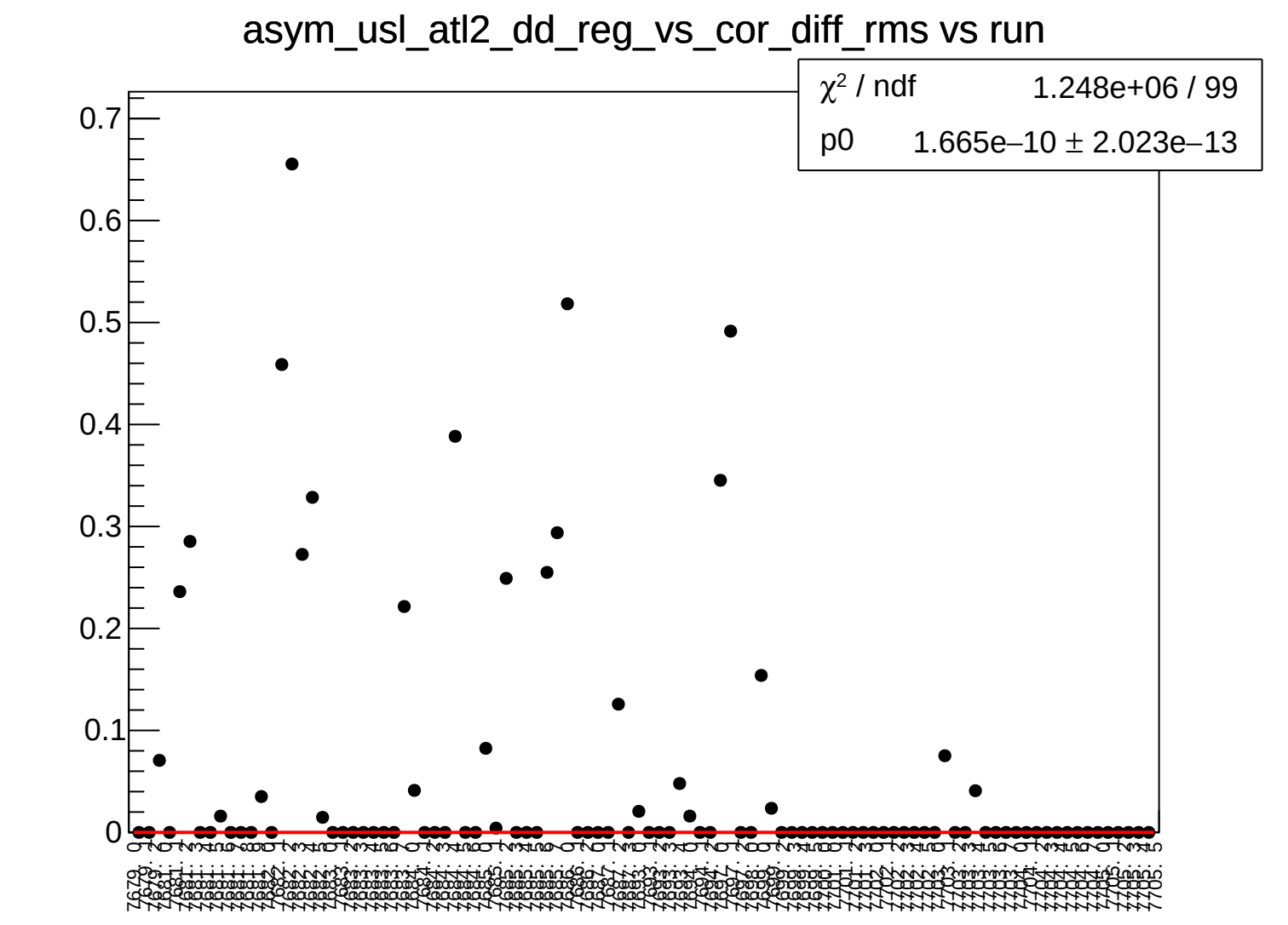

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 4360 / 99
p0 4088 ± 2.95
4600
4400
4200
4000
3800
3600
3400

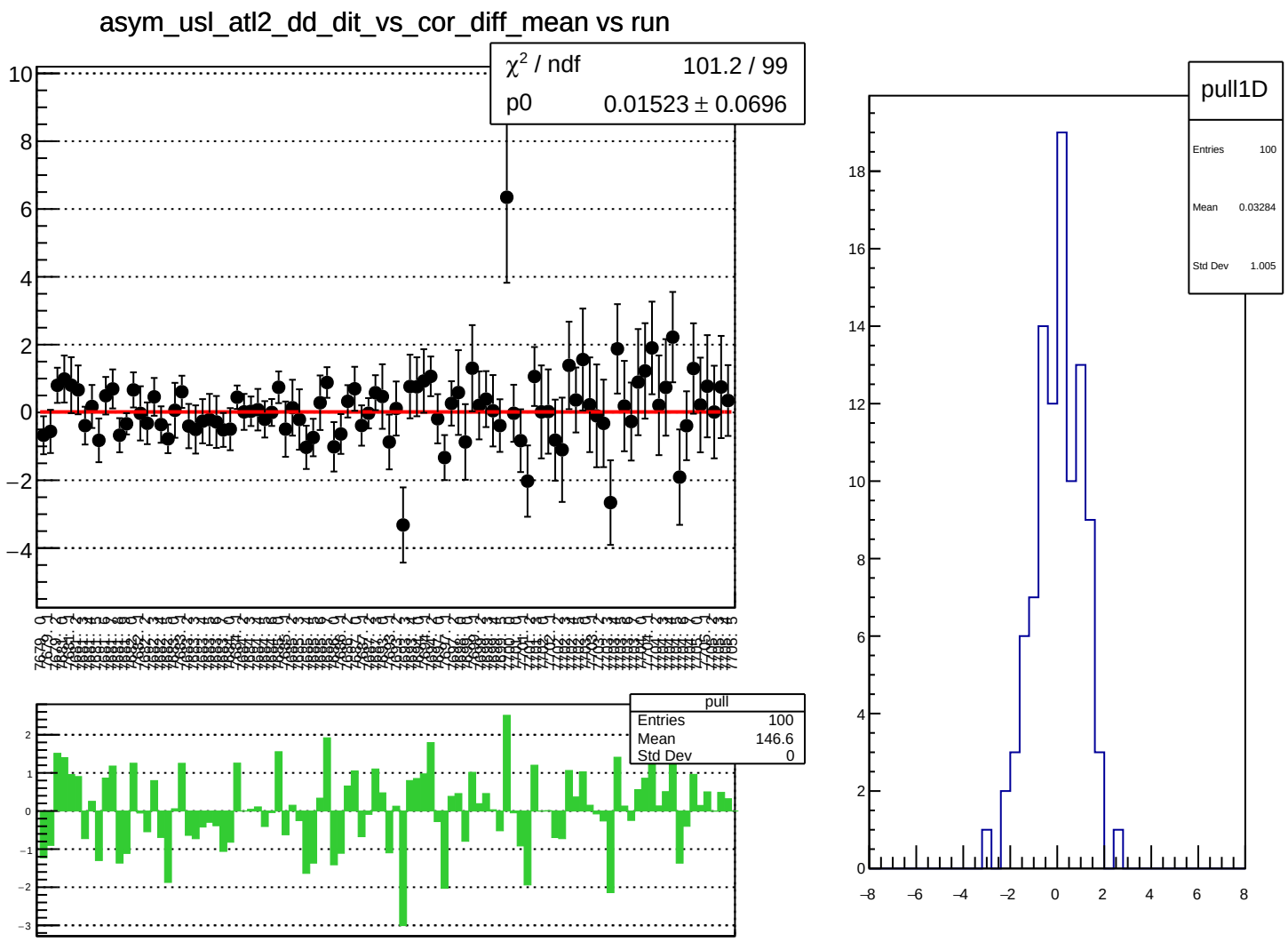

asym_usl_atl2_dd_mean vs run
×10^3
χ^2 / ndf 108.8 / 99
p0 6785 ± 4311
150
100
50
0
−50
−100
−150
−200
pull
Entries 100
Mean −1324
Std Dev 0
2
1
0
−1
−2
−3

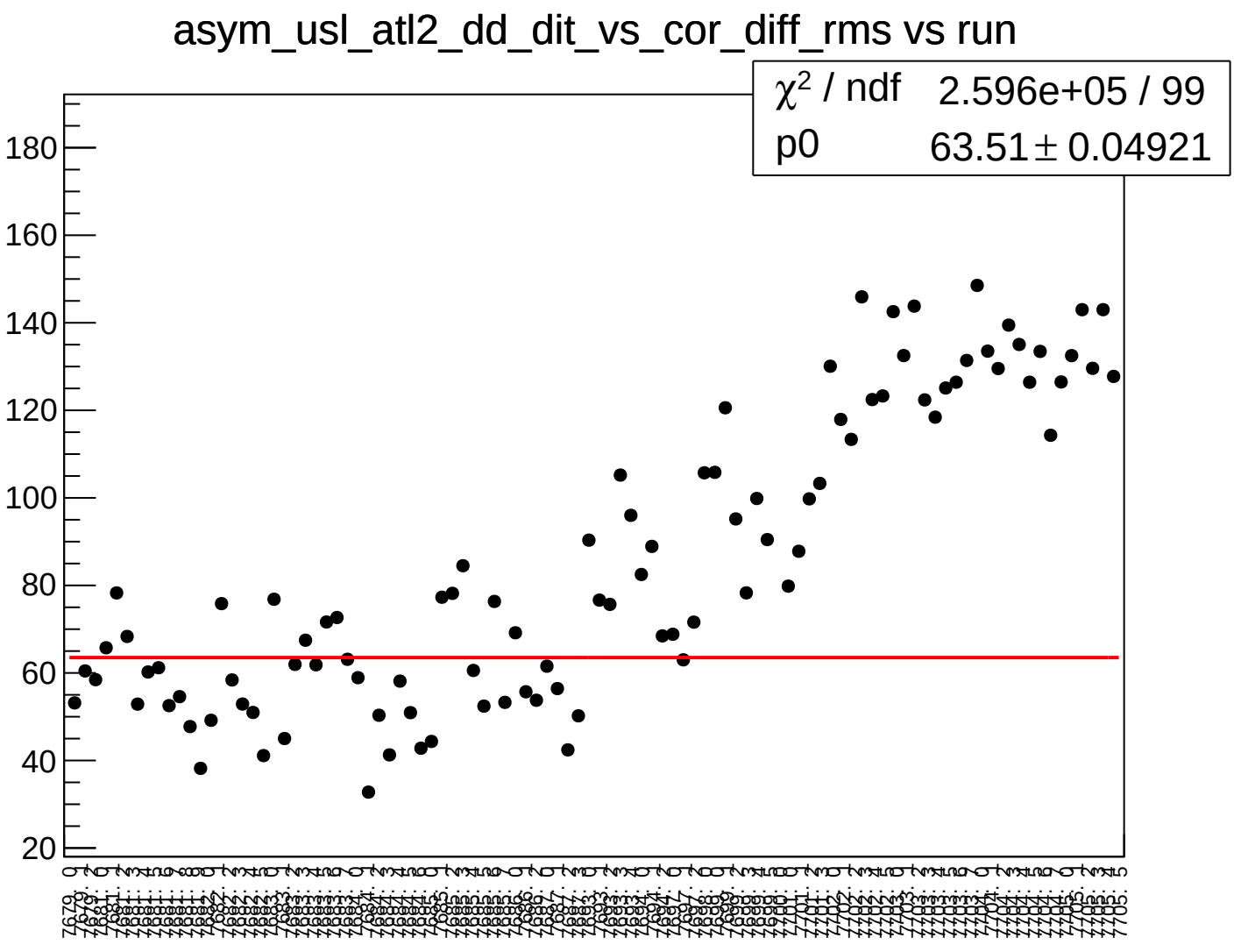

pull1D
Entries 100
Mean −0.002923
Std Dev 1.043
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

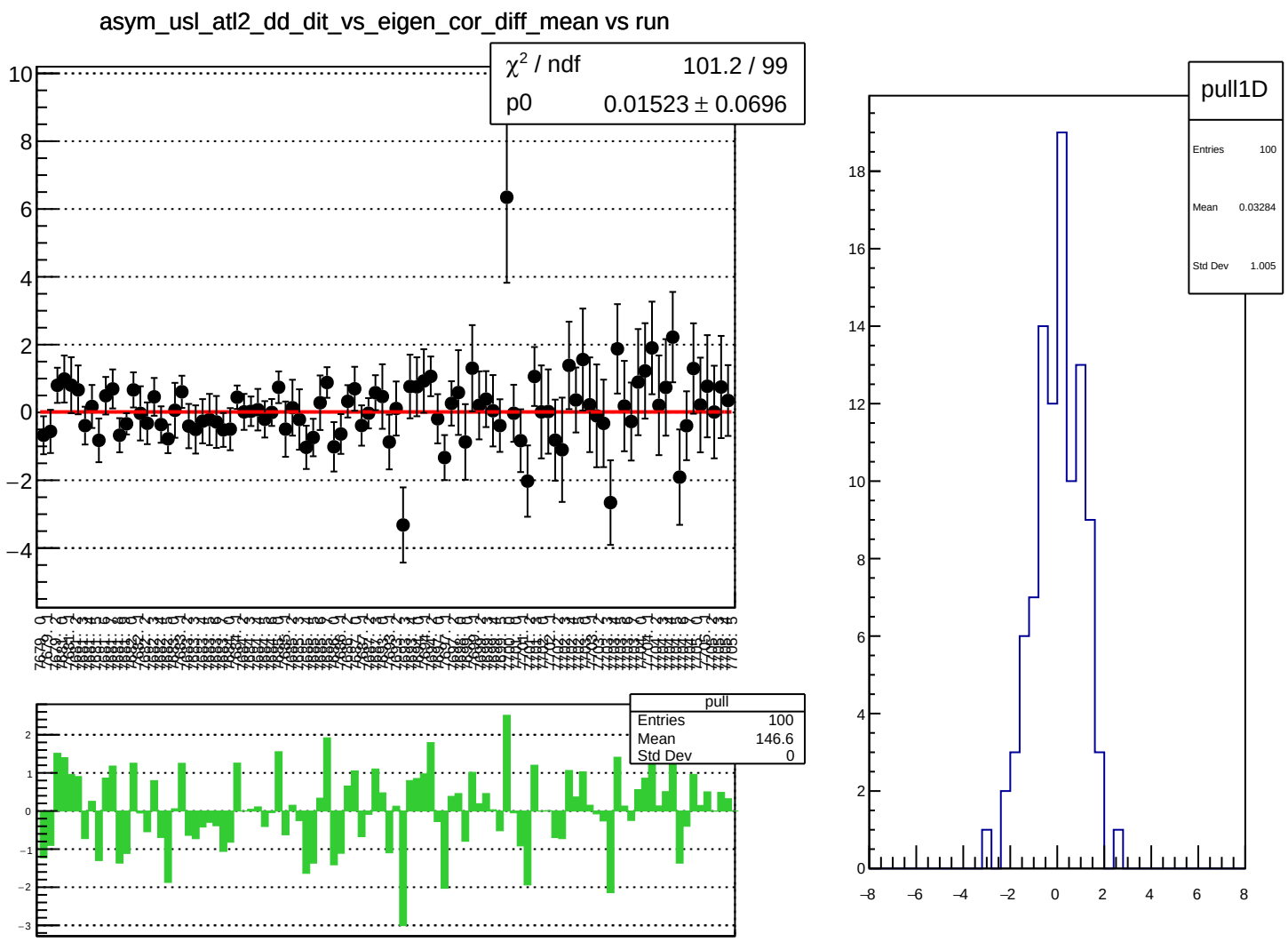

asym_usl_atl2_dd_rms vs run
χ² / ndf 5544 / 99
p0 4223 ± 3.048
4800
4600
4400
4200
4000
3800
3600

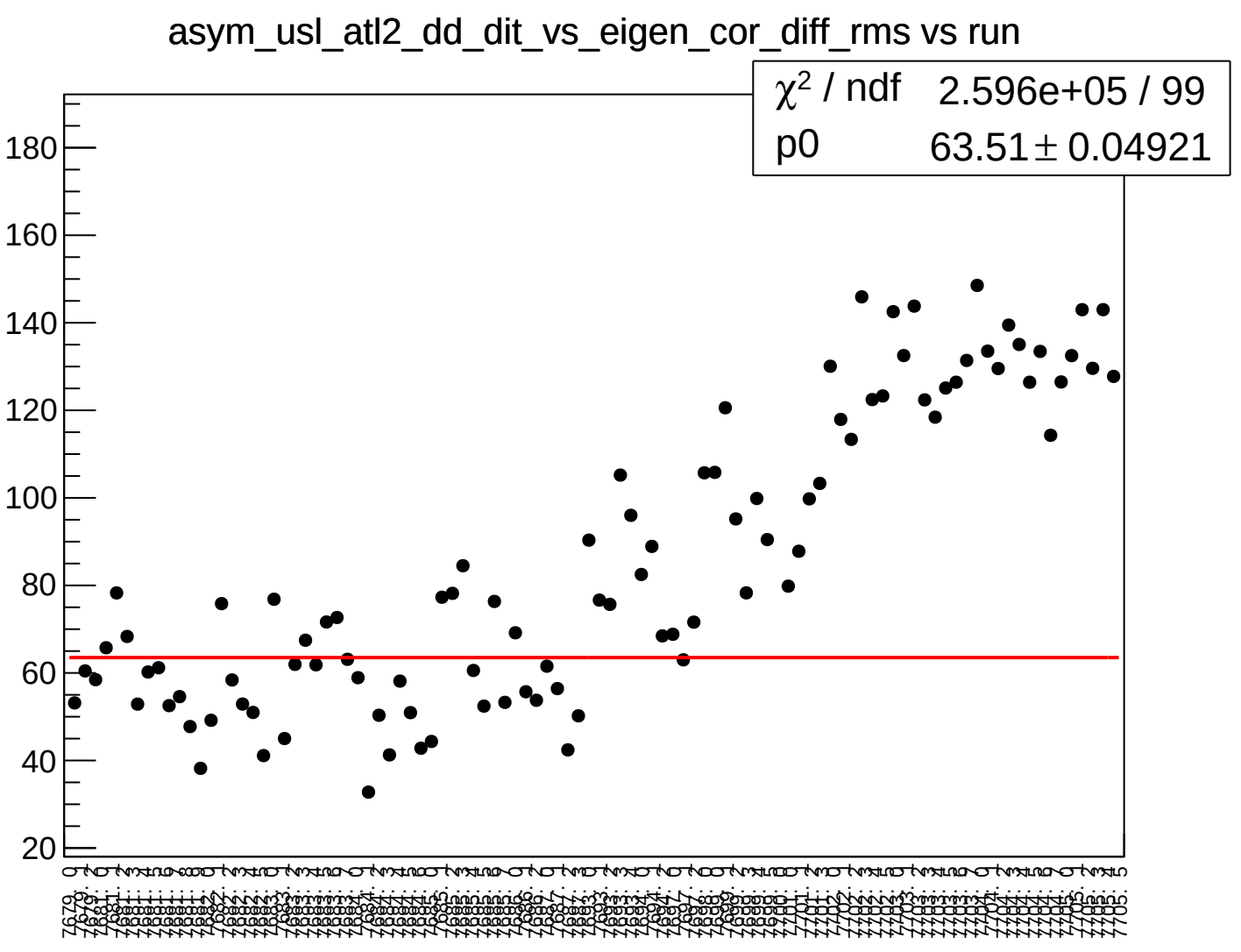

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 115.8 / 99
p0 3.649e−13 ± 2.861e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 100
Mean 23.63
Std Dev 23.78
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.1261
Std Dev 1.069
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

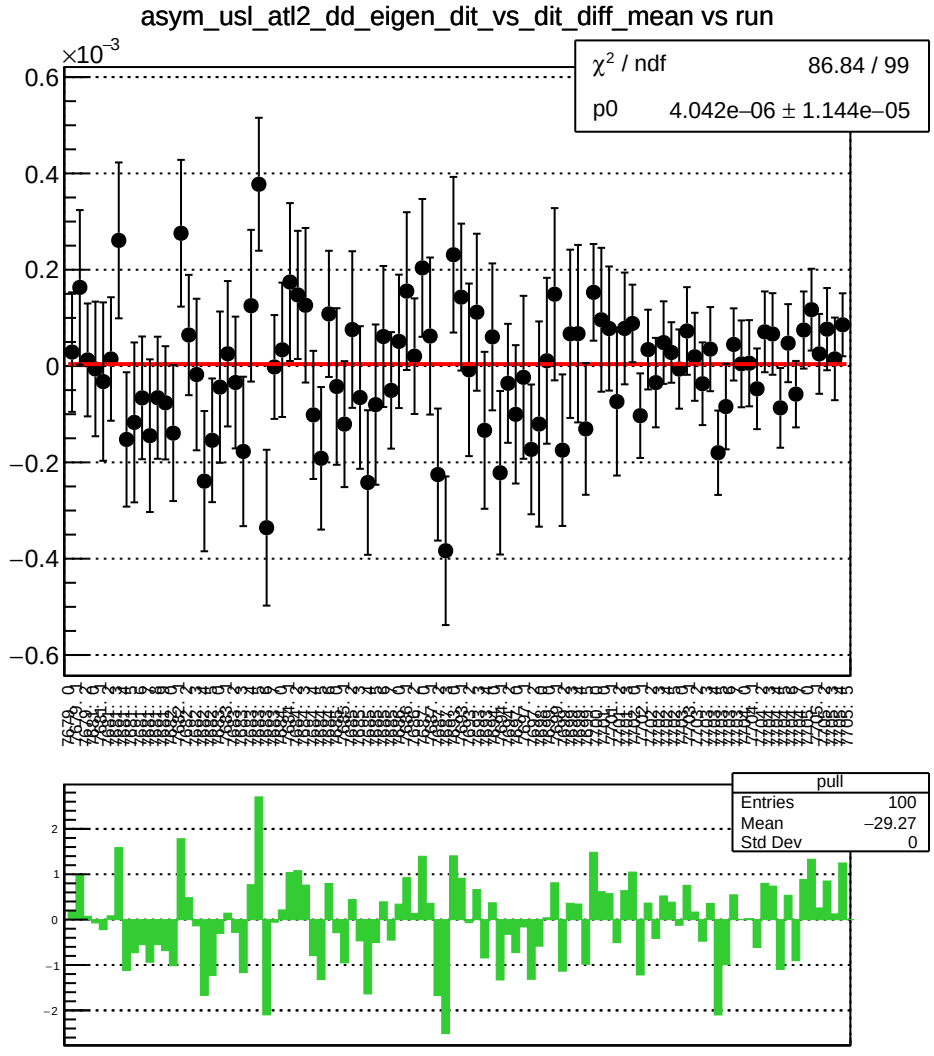

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.248e+06 / 99
p0 1.665e−10 ± 2.023e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

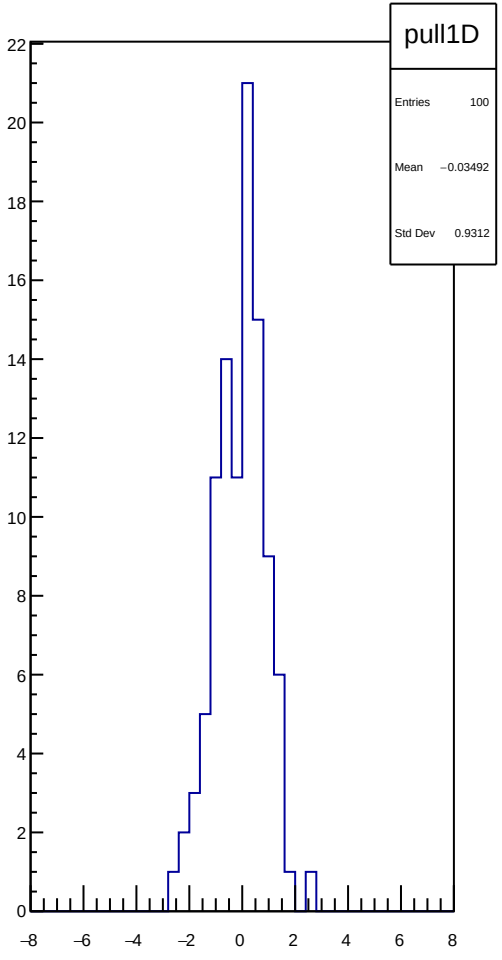

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 101.2 / 99
p0 0.01523 ± 0.0696
pull
Entries 100
Mean 146.6
Std Dev 0
pull1D
Entries 100
Mean 0.03284
Std Dev 1.005

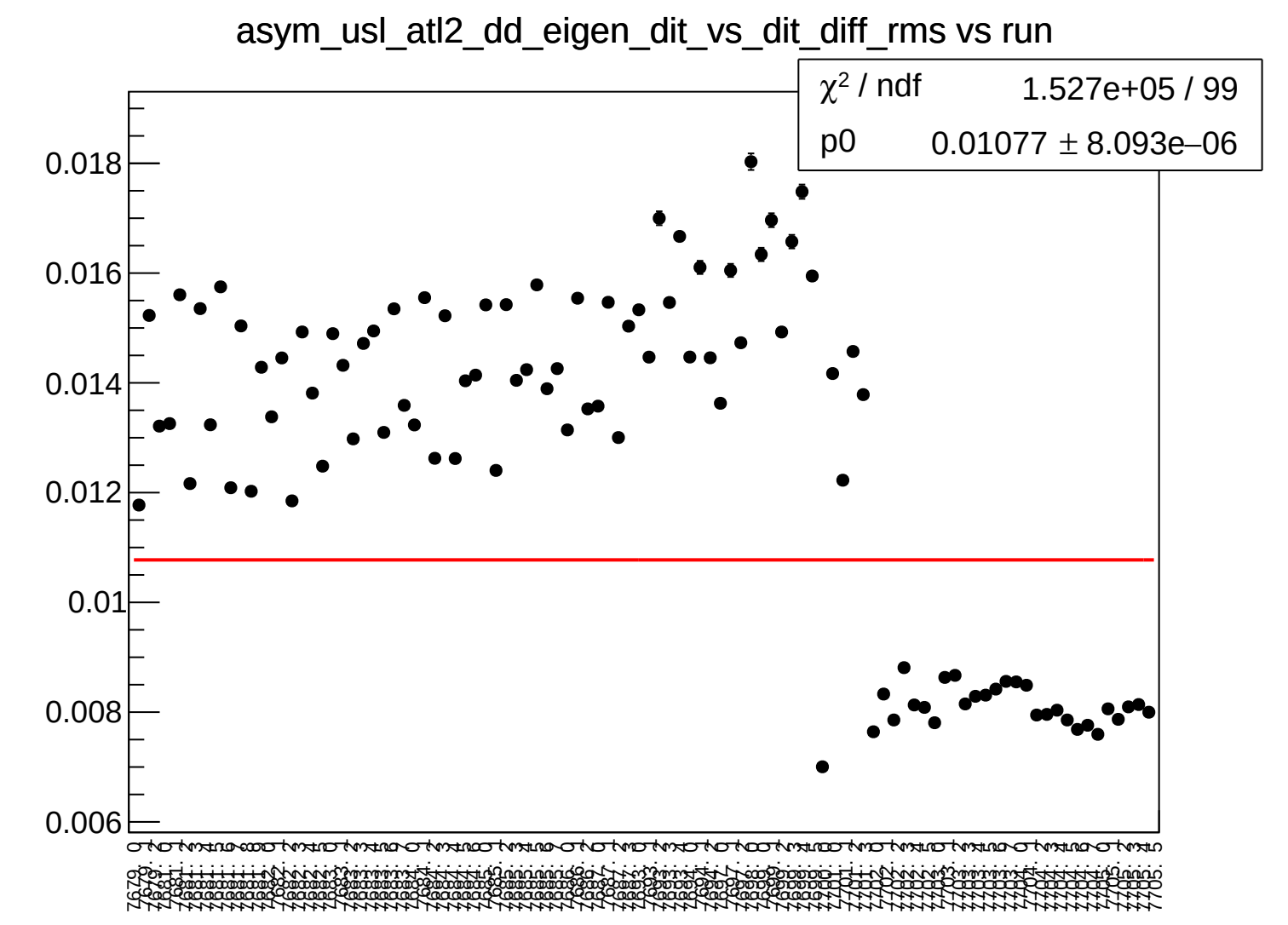

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.596e+05 / 99
p0 63.51 ± 0.04921
180
160
140
120
100
80
60
40
20

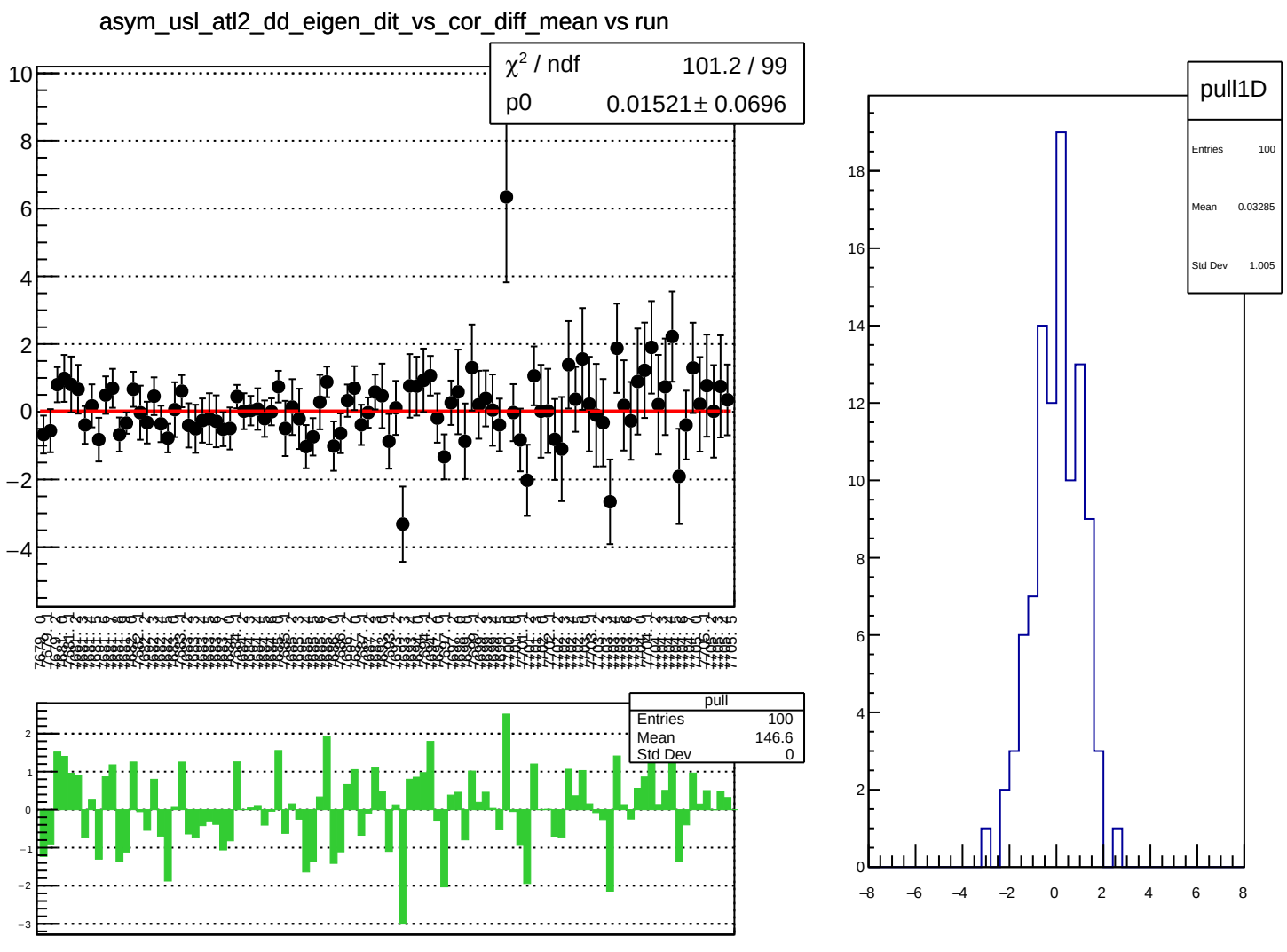

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.2 / 99
p0 0.01523 ± 0.0696
pull
Entries 100
Mean 146.6
Std Dev 0
pull1D
Entries 100
Mean 0.03284
Std Dev 1.005

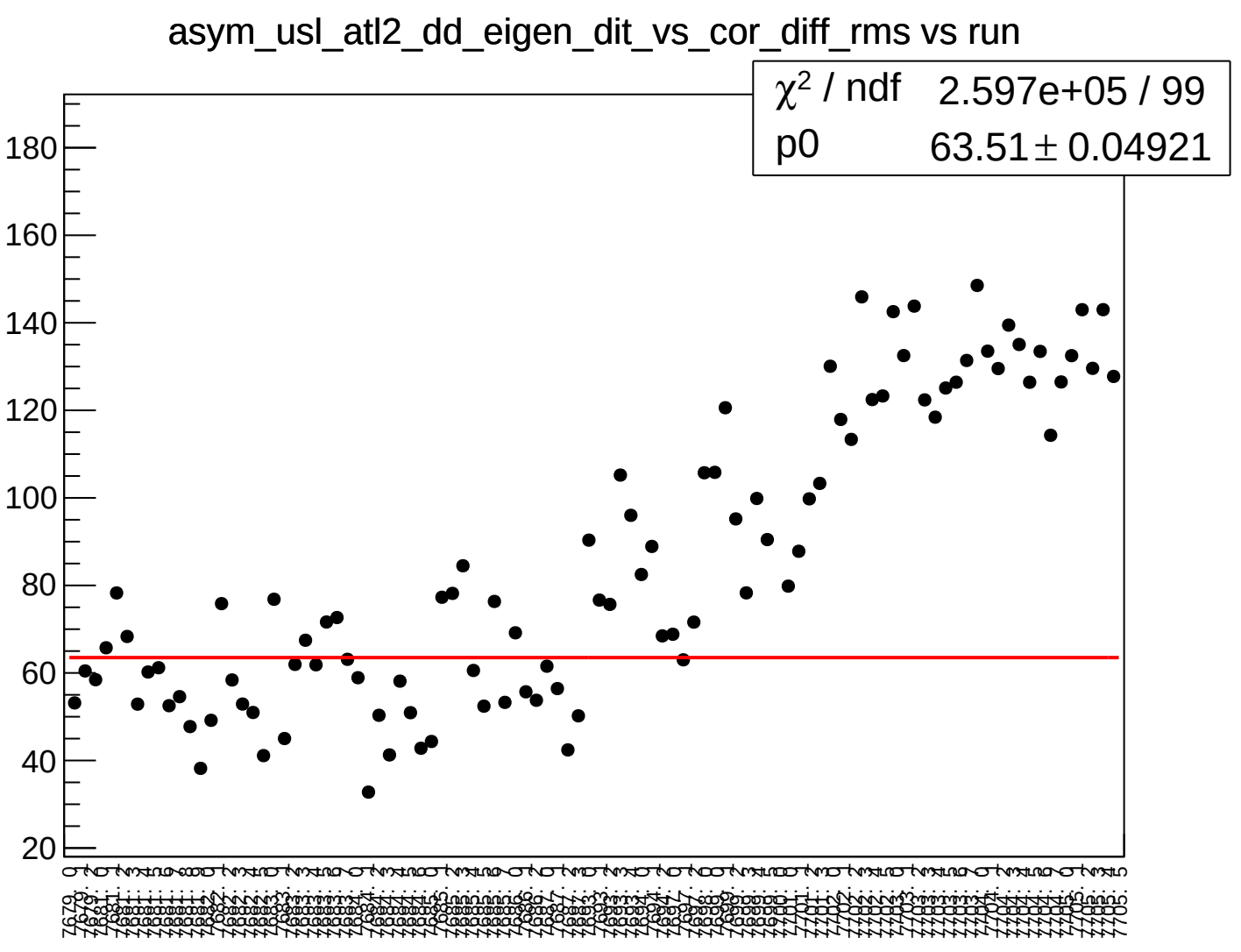

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.596e+05 / 99
p0 63.51 ± 0.04921
180
160
140
120
100
80
60
40
20

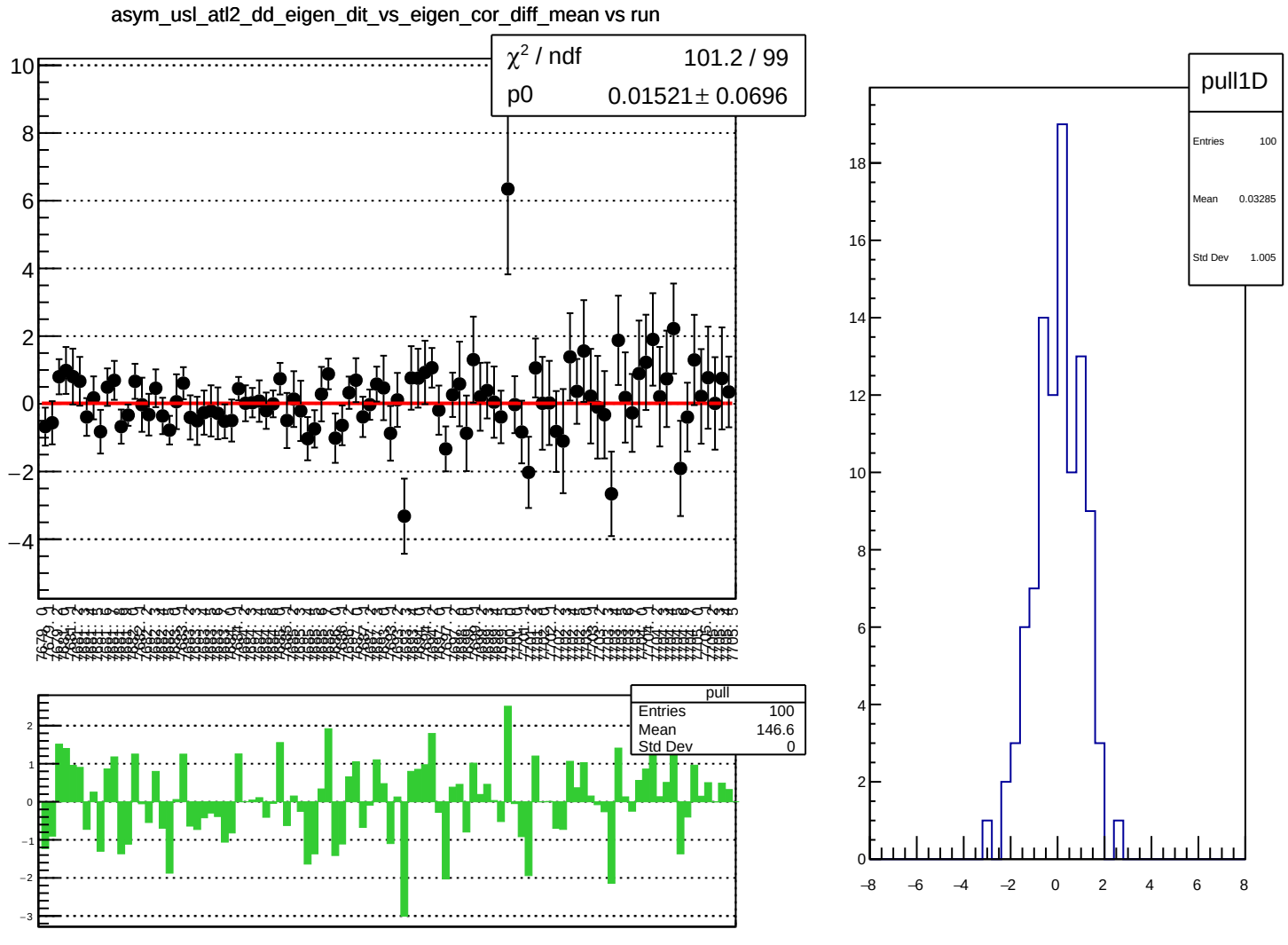

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.84 / 99
p0 4.042e−06 ± 1.144e−05
pull
Entries 100
Mean −29.27
Std Dev 0

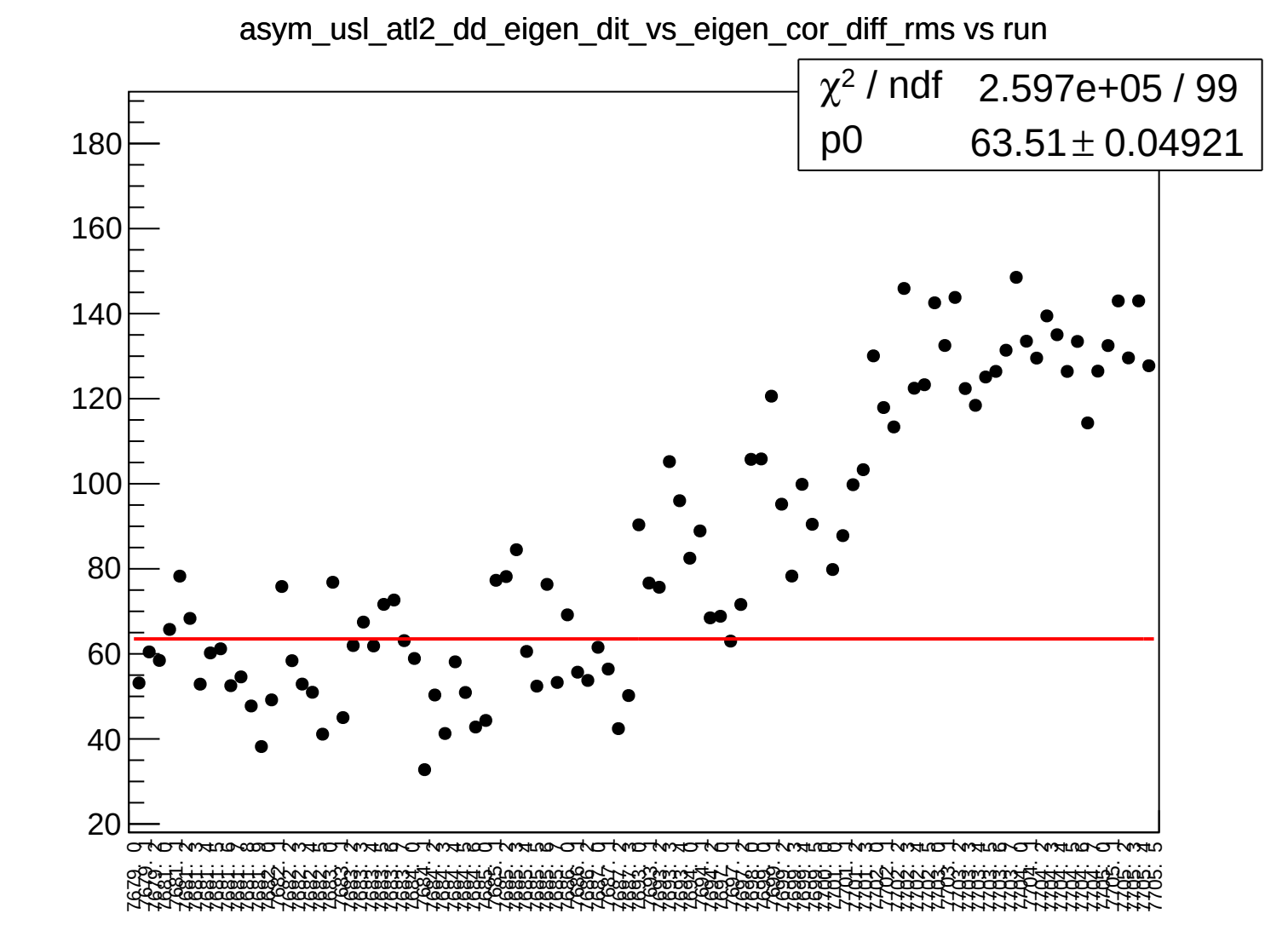

pull1D
Entries 100
Mean −0.03492
Std Dev 0.9312

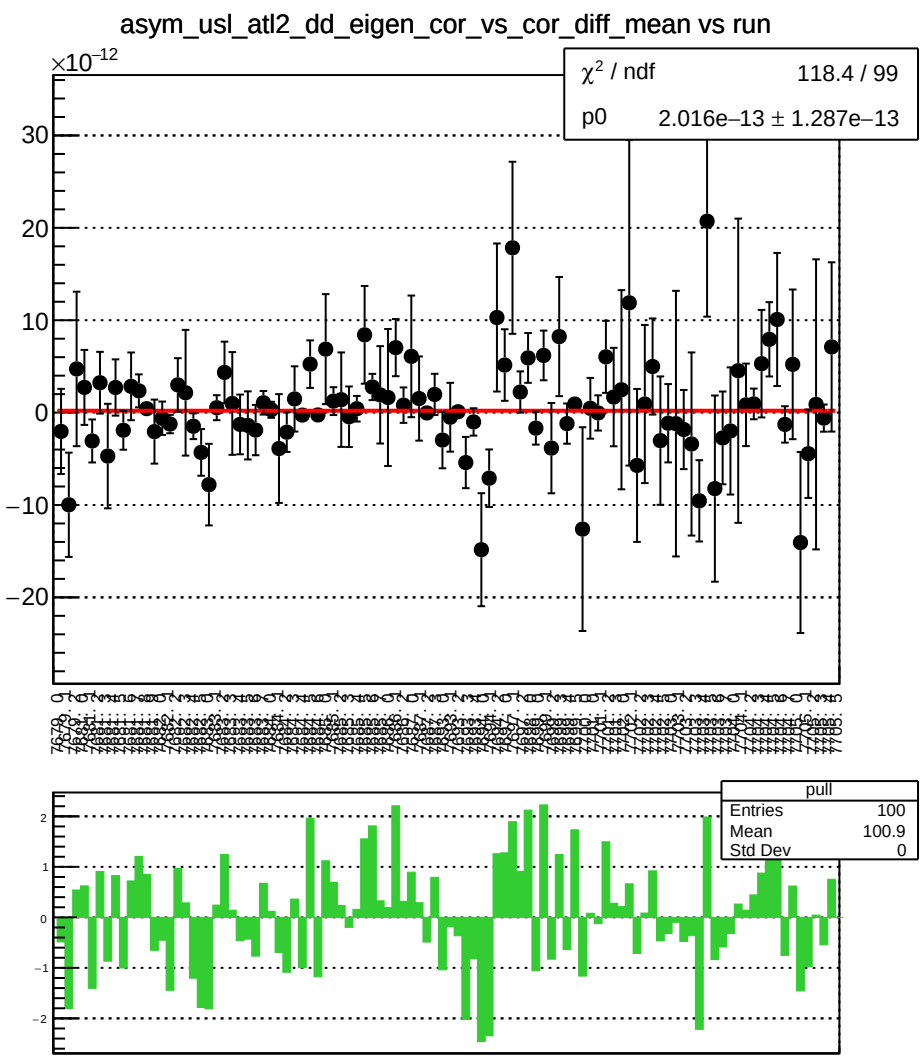

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.527e+05 / 99
p0 0.01077 ± 8.093e–06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

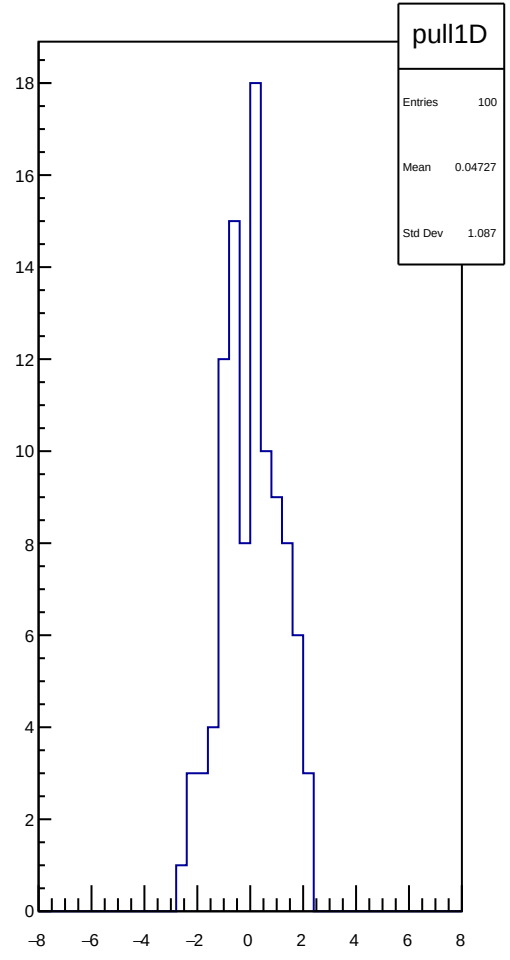

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.2 / 99
p0 0.01521 ± 0.0696
pull
Entries 100
Mean 146.6
Std Dev 0
pull1D
Entries 100
Mean 0.03285
Std Dev 1.005

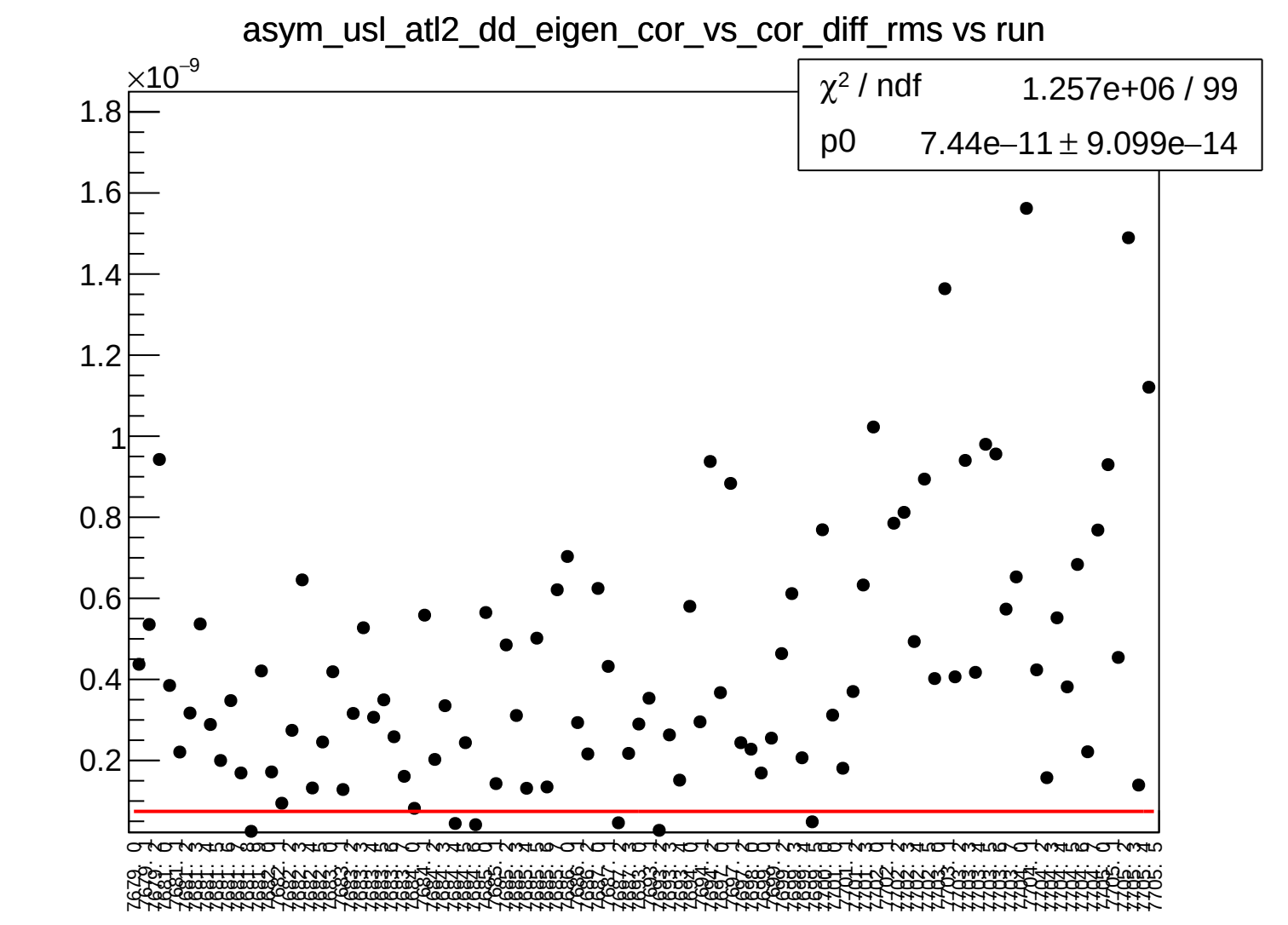

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.597e+05 / 99
p0 63.51 ± 0.04921
180
160
140
120
100
80
60
40
20

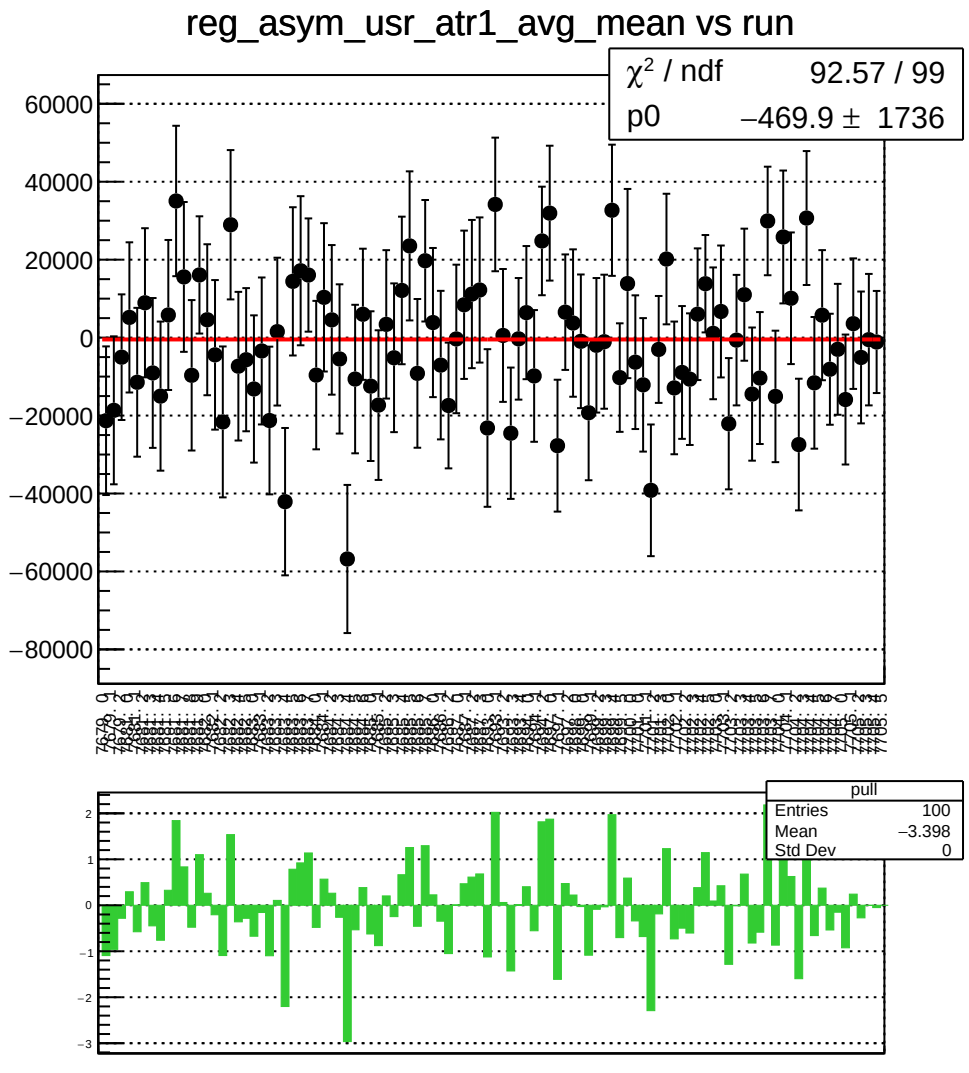

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.2 / 99
p0 0.01521 ± 0.0696
pull
Entries 100
Mean 146.6
Std Dev 0
pull1D
Entries 100
Mean 0.03285
Std Dev 1.005

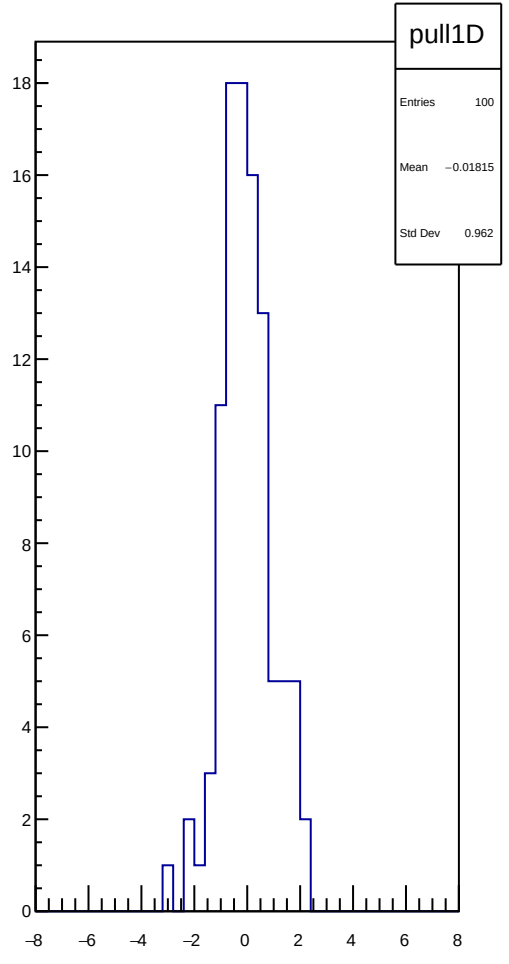

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.597e+05 / 99
p0 63.51 ± 0.04921
180
160
140
120
100
80
60
40
20

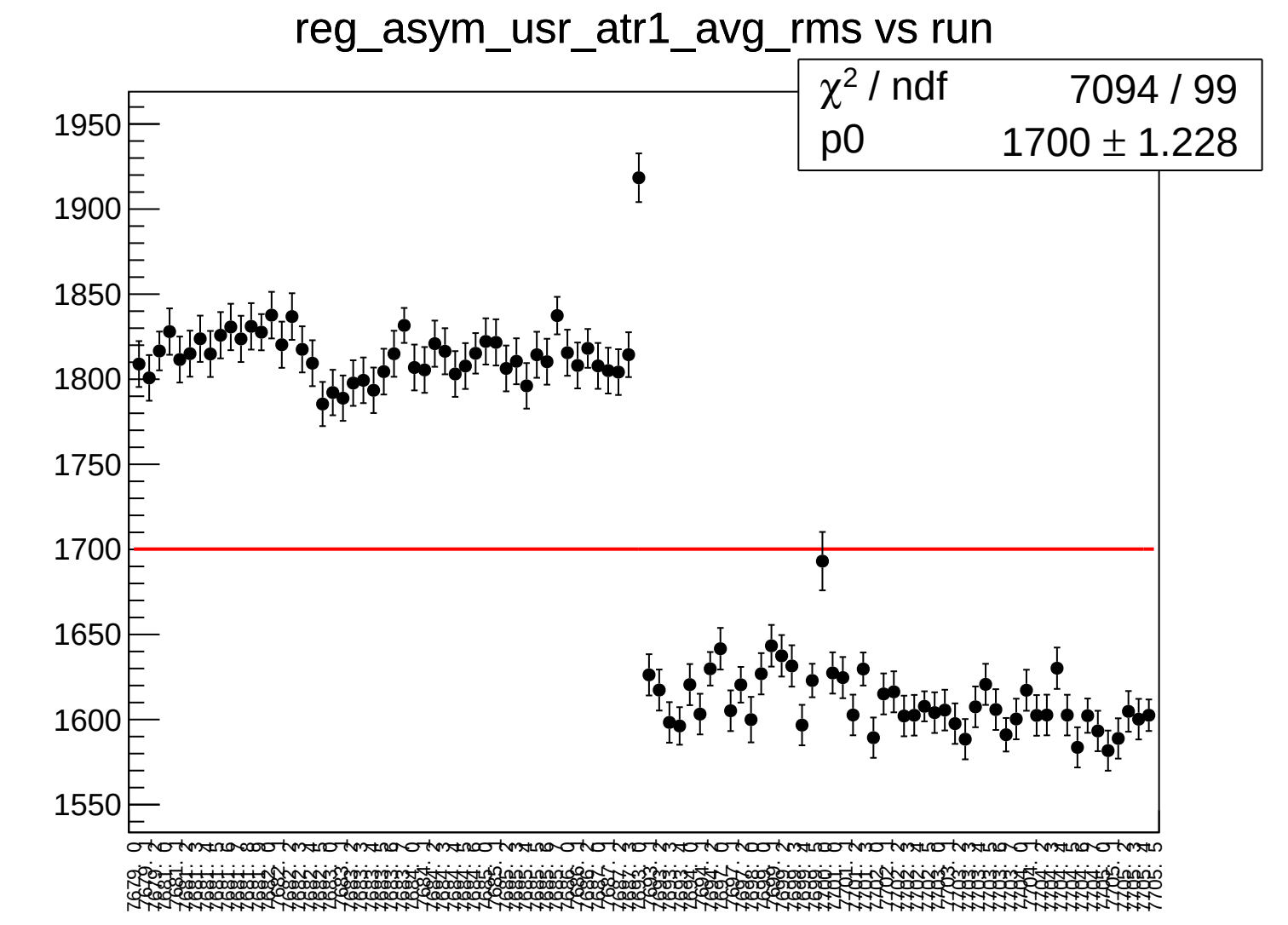

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 118.4 / 99
p0 2.016e−13 ± 1.287e−13
30
20
10
0
−10
−20
pull
Entries 100
Mean 100.9
Std Dev 0
2
1
0
−1
−2

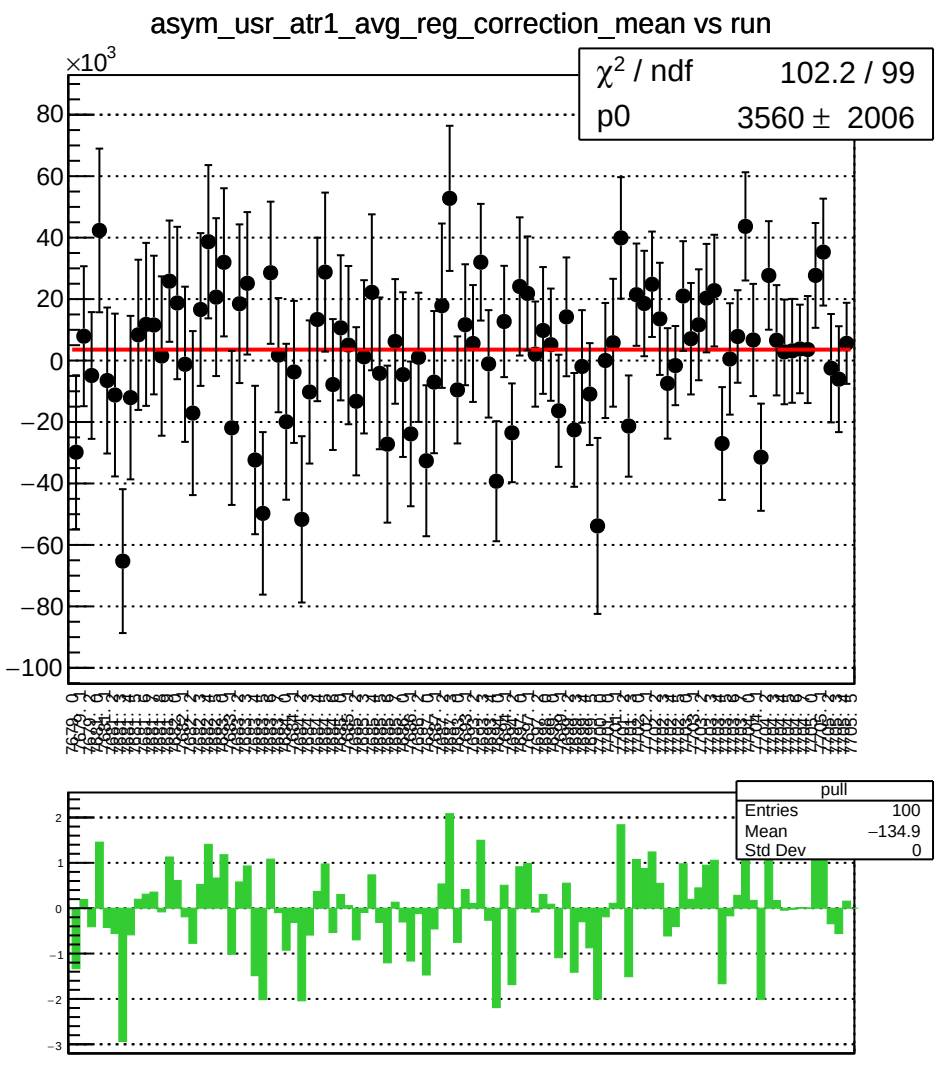

pull1D
Entries 100
Mean 0.04727
Std Dev 1.087
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

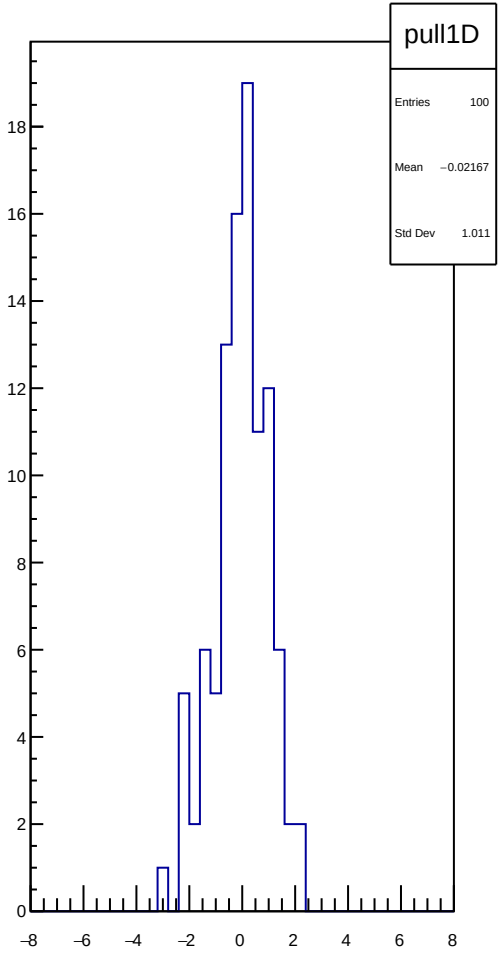

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.257e+06 / 99
p0 7.44e−11 ± 9.099e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

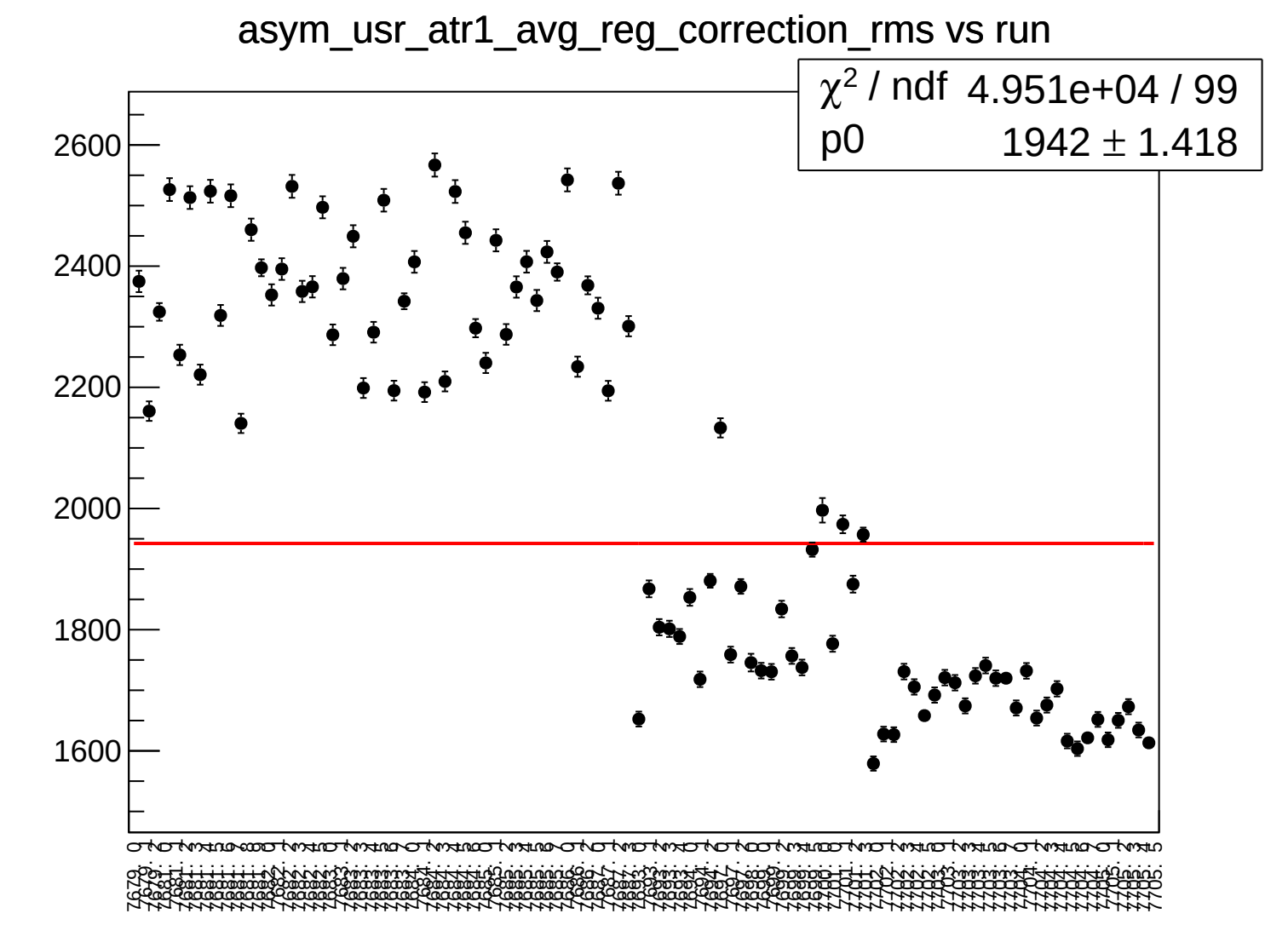

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 92.57 / 99
p0 −469.9 ± 1736
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −3.398
Std Dev 0
2
1
0
−1
−2
−3

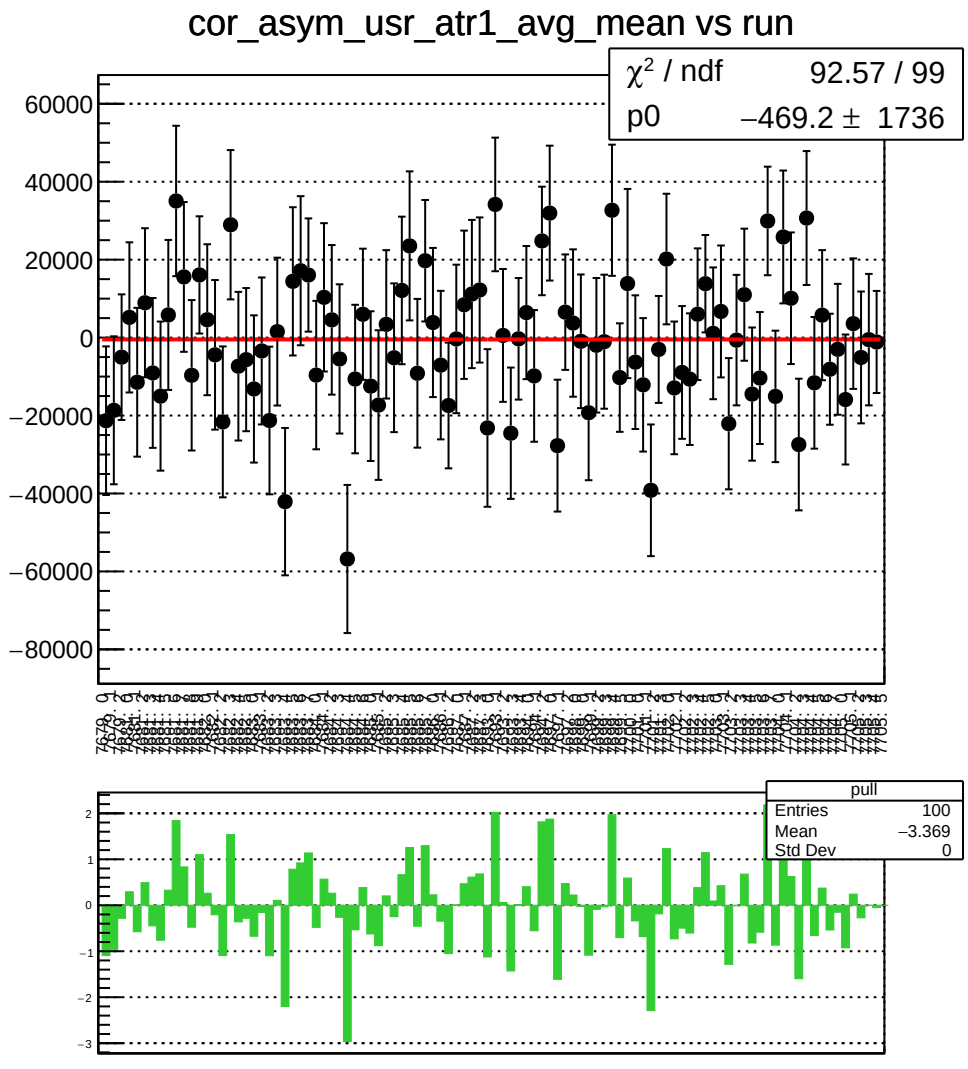

pull1D
Entries 100
Mean −0.01815
Std Dev 0.962
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

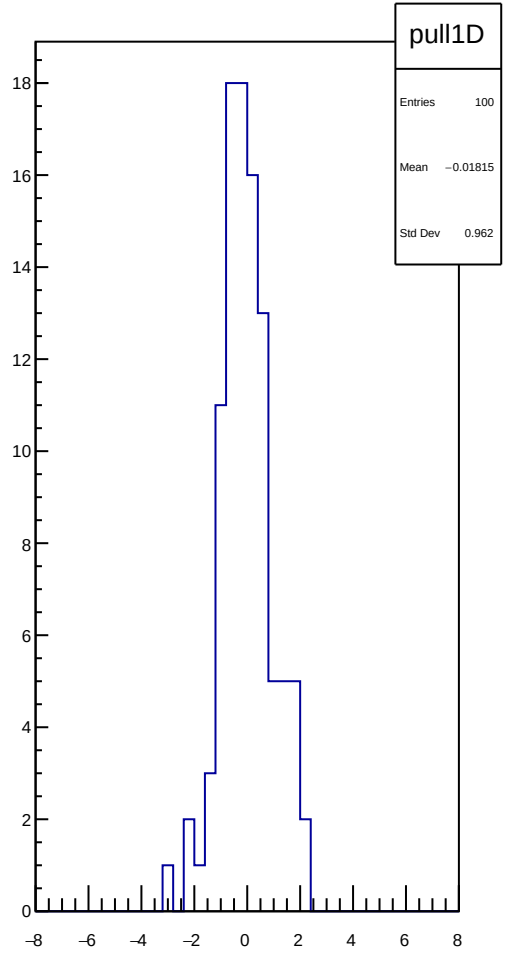

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 7094 / 99
p0 1700 ± 1.228
1950
1900
1850
1800
1750
1700
1650
1600
1550

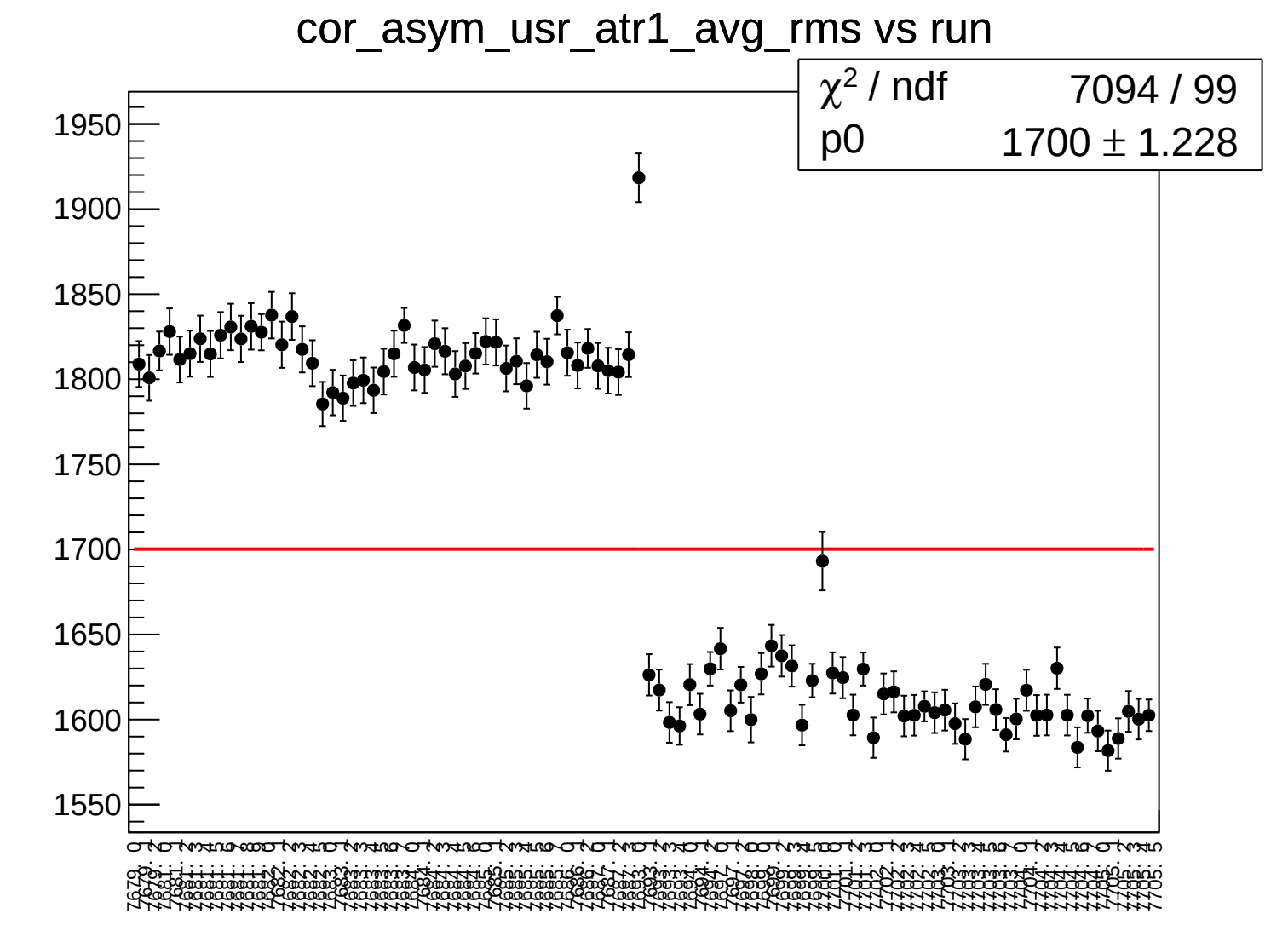

asym_usr_atr1_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 102.2 / 99
p0 3560 ± 2006
pull
Entries 100
Mean −134.9
Std Dev 0

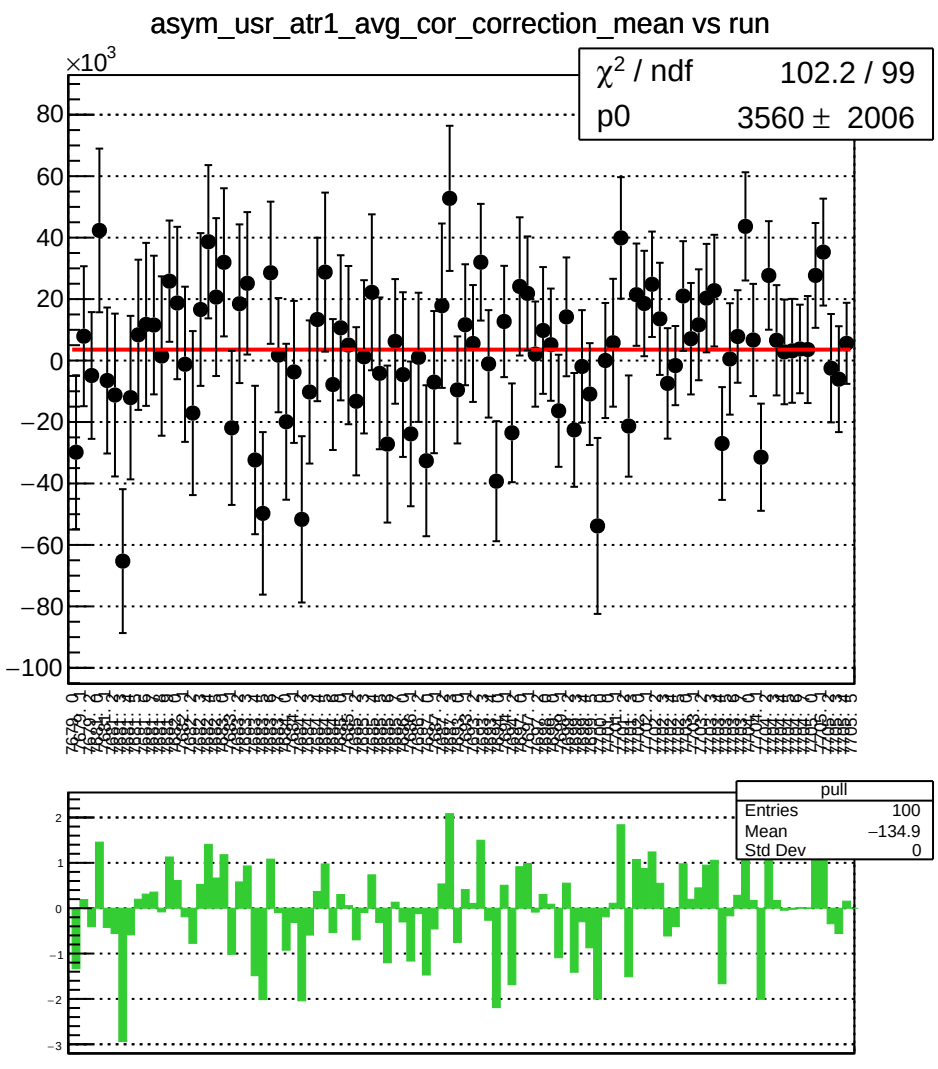

pull1D
Entries 100
Mean −0.02167
Std Dev 1.011

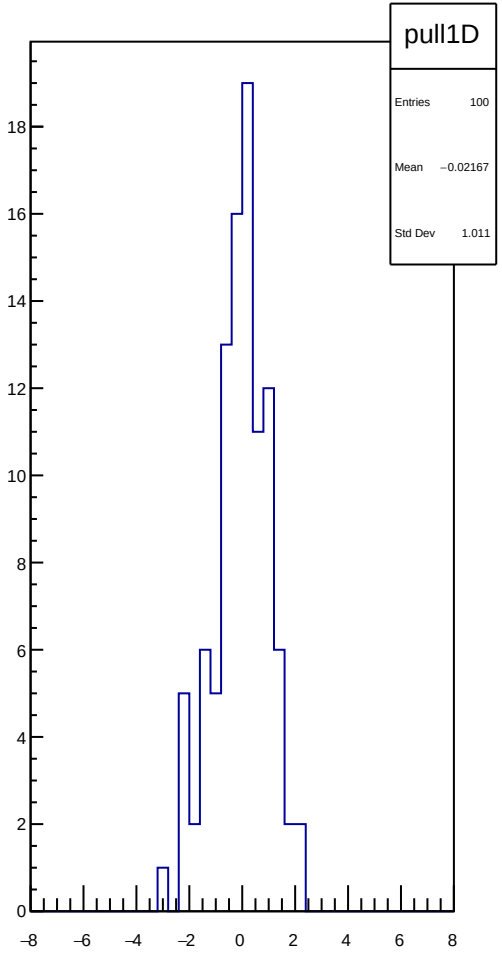

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 4.951e+04 / 99
p0 1942 ± 1.418
2600
2400
2200
2000
1800
1600

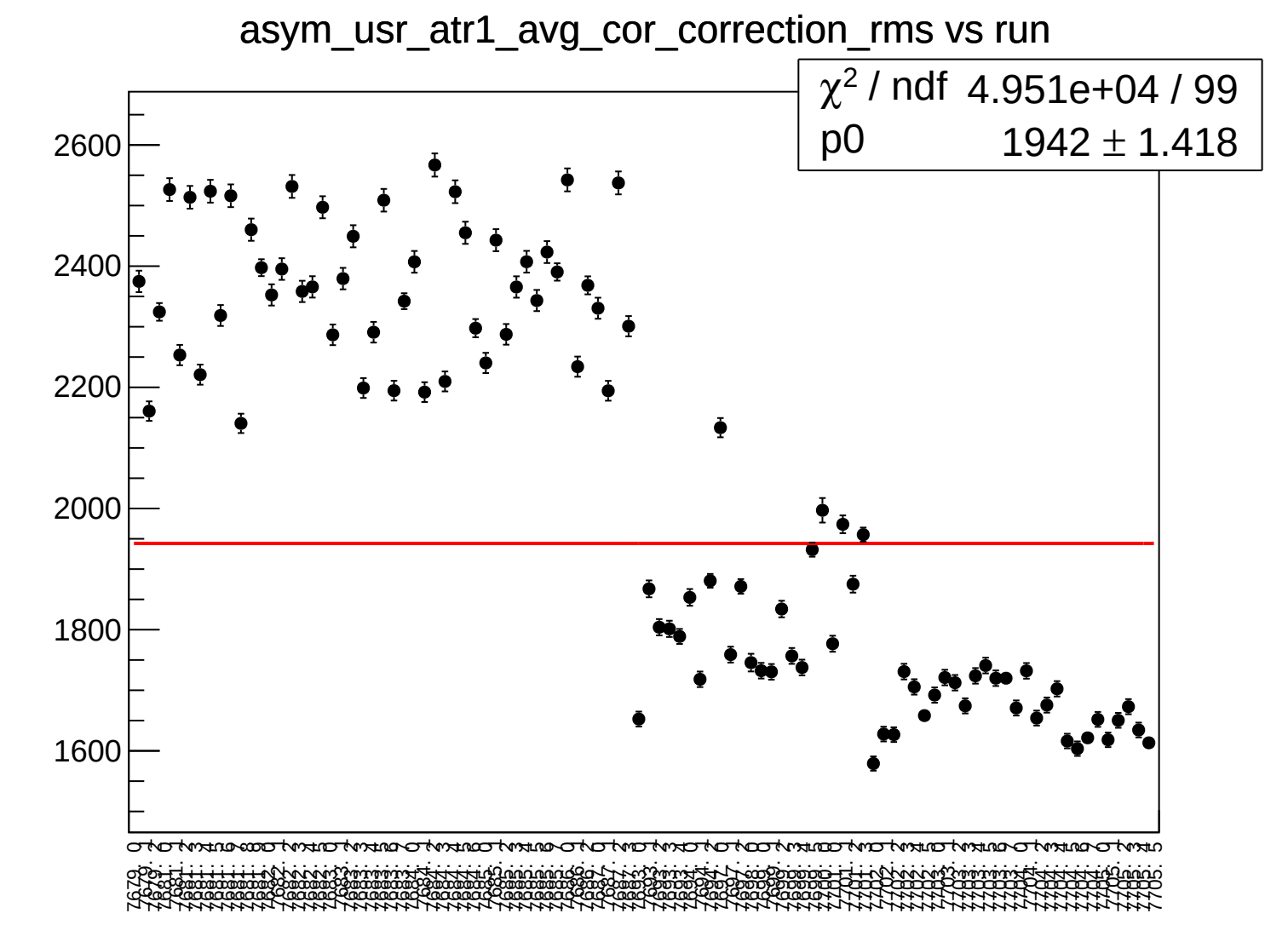

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 92.57 / 99
p0 −469.2 ± 1736
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −3.369
Std Dev 0
2
1
0
−1
−2
−3

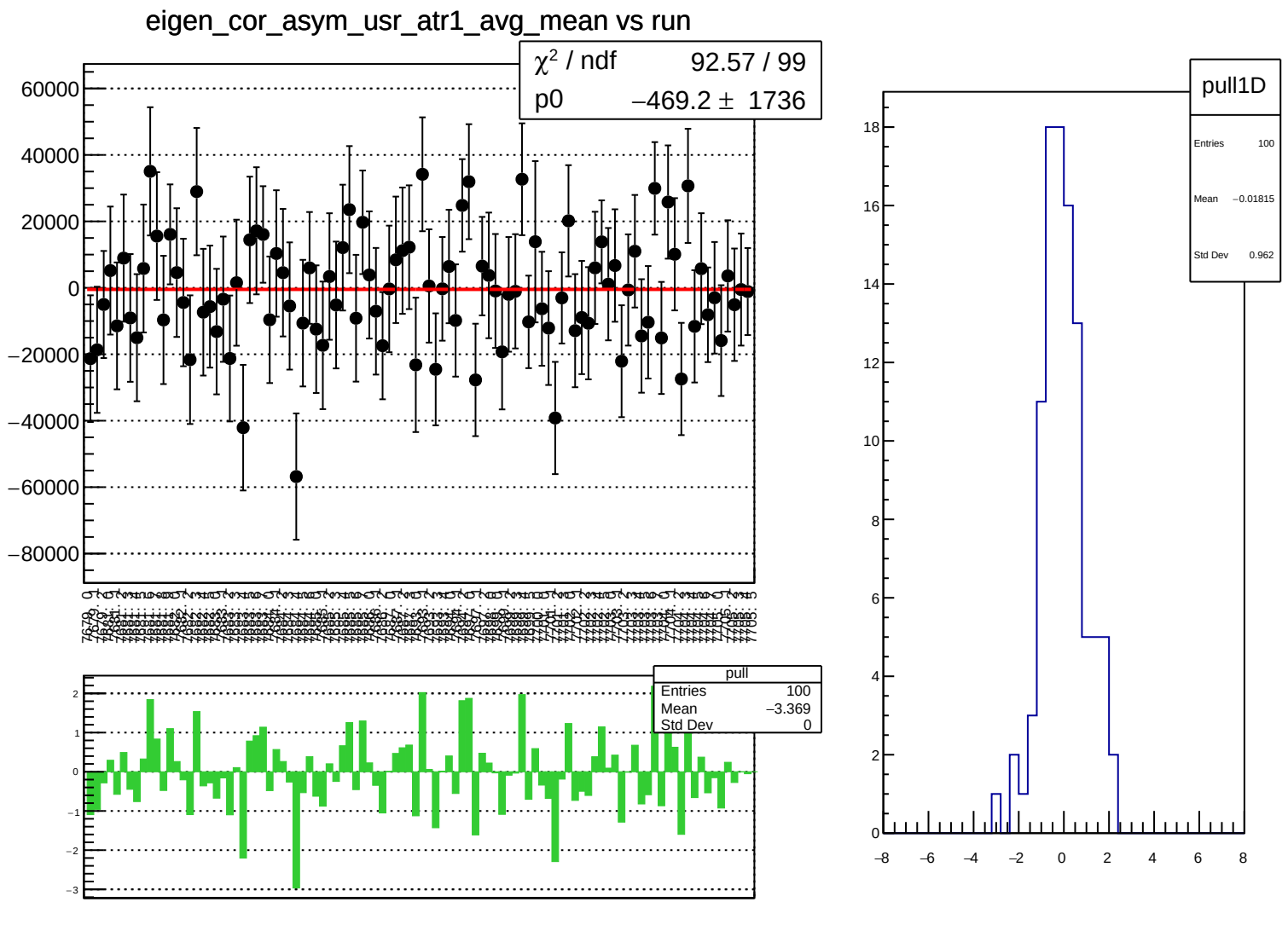

pull1D
Entries 100
Mean −0.01815
Std Dev 0.962
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

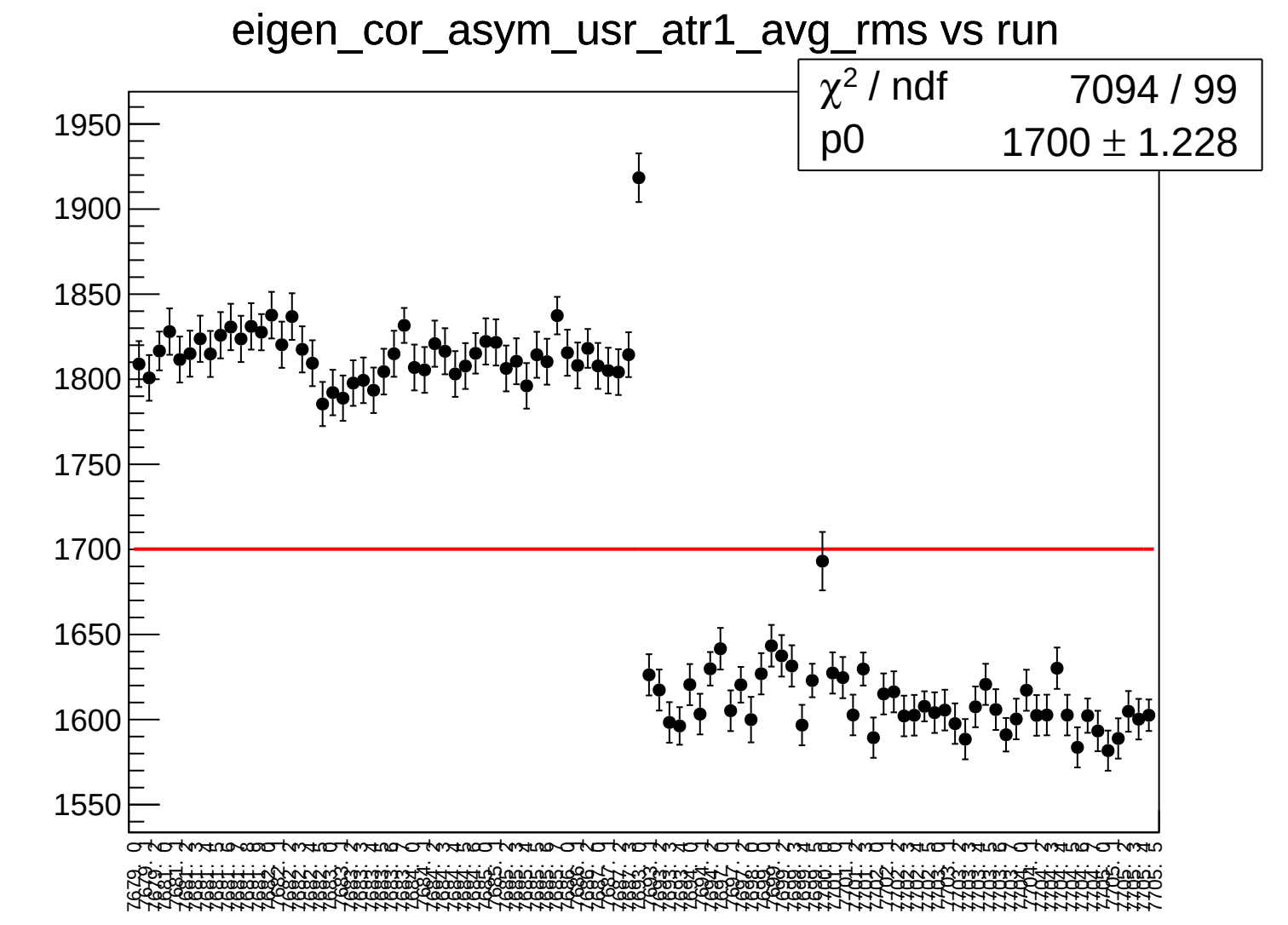

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 7094 / 99
p0 1700 ± 1.228
1950
1900
1850
1800
1750
1700
1650
1600
1550

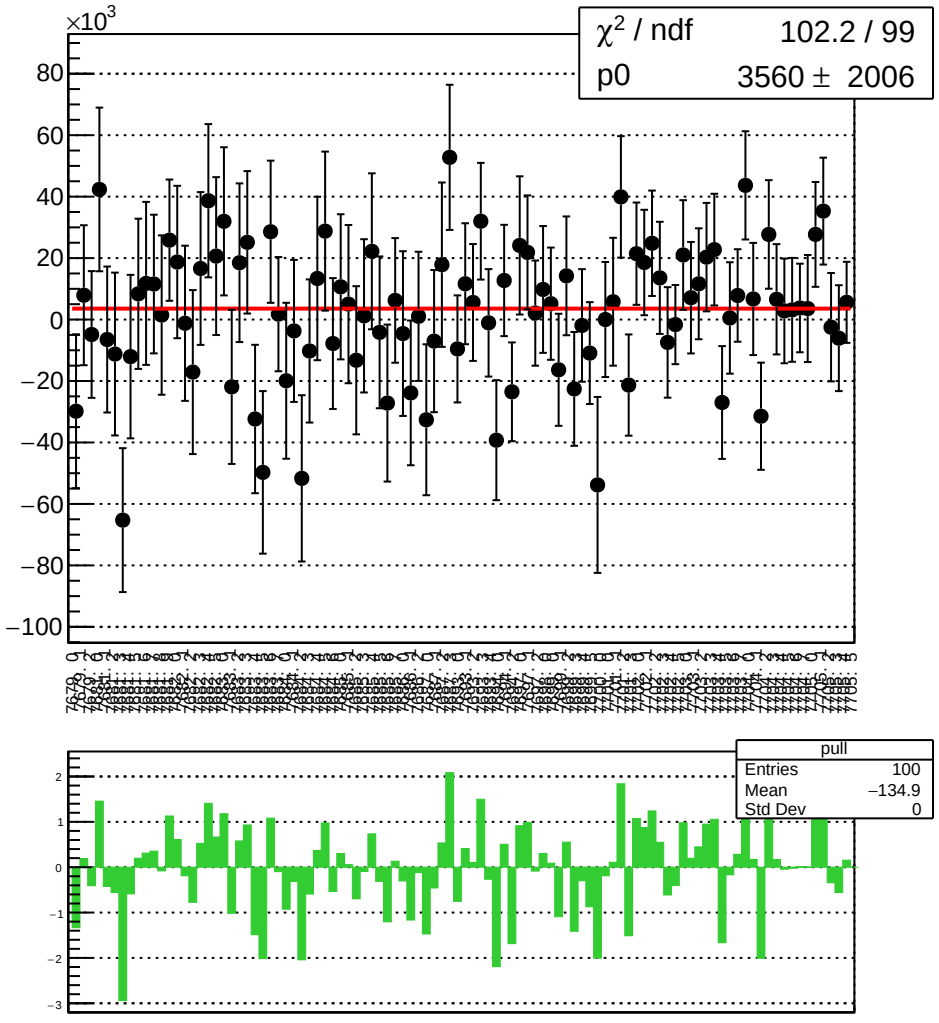

asym_usr_atr1_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 102.2 / 99
p0 3560 ± 2006
pull
Entries 100
Mean −134.9
Std Dev 0

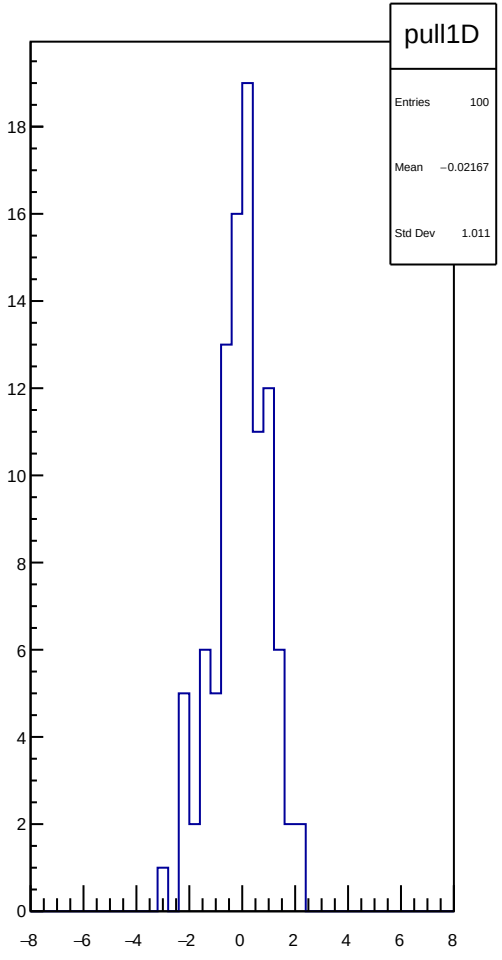

pull1D
Entries 100
Mean −0.02167
Std Dev 1.011

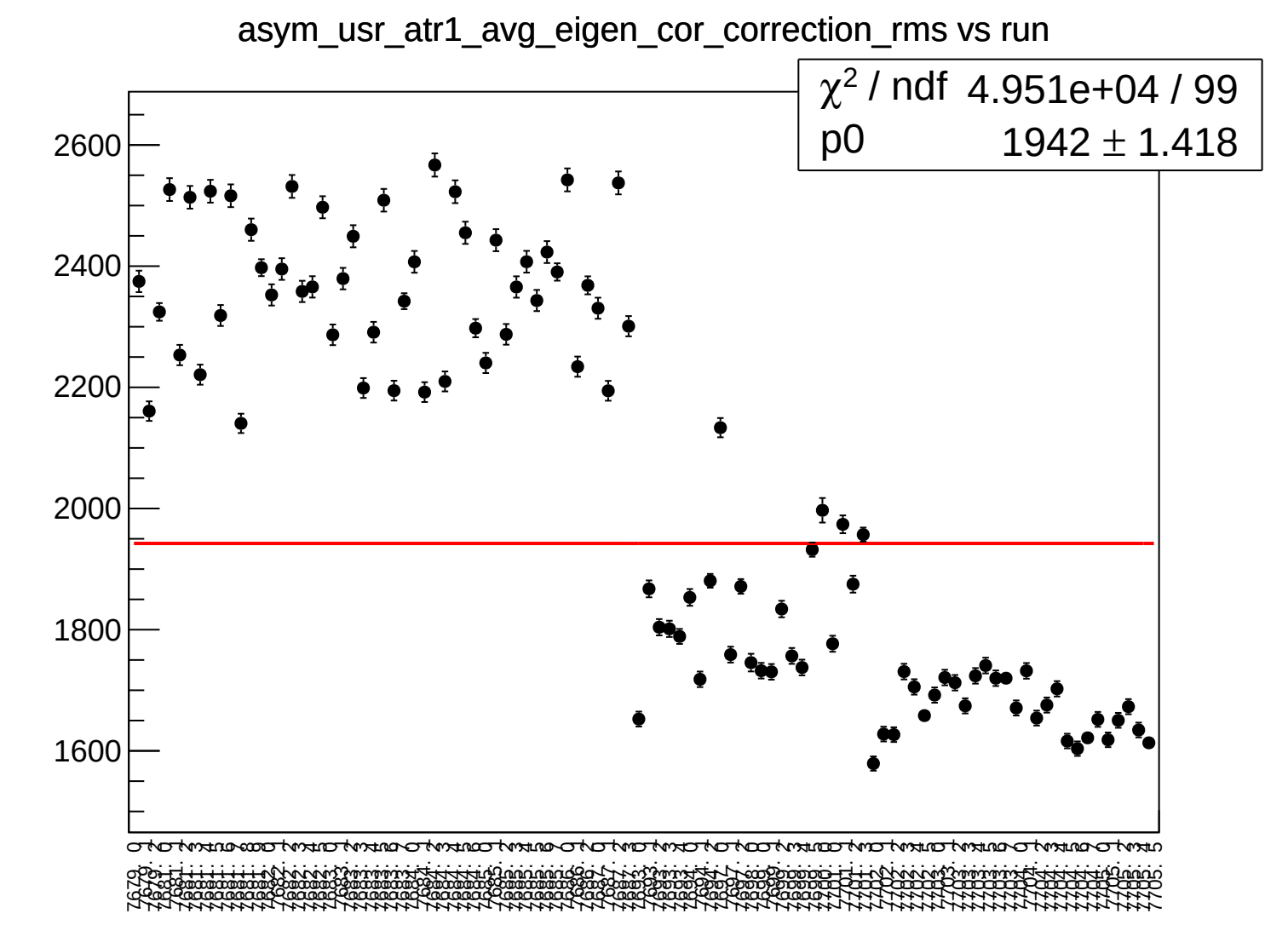

asym_usr_atr1_avg_cor_correction_rms vs run
χ^2 / ndf 4.951e+04 / 99
p0 1942 ± 1.418
2600
2400
2200
2000
1800
1600

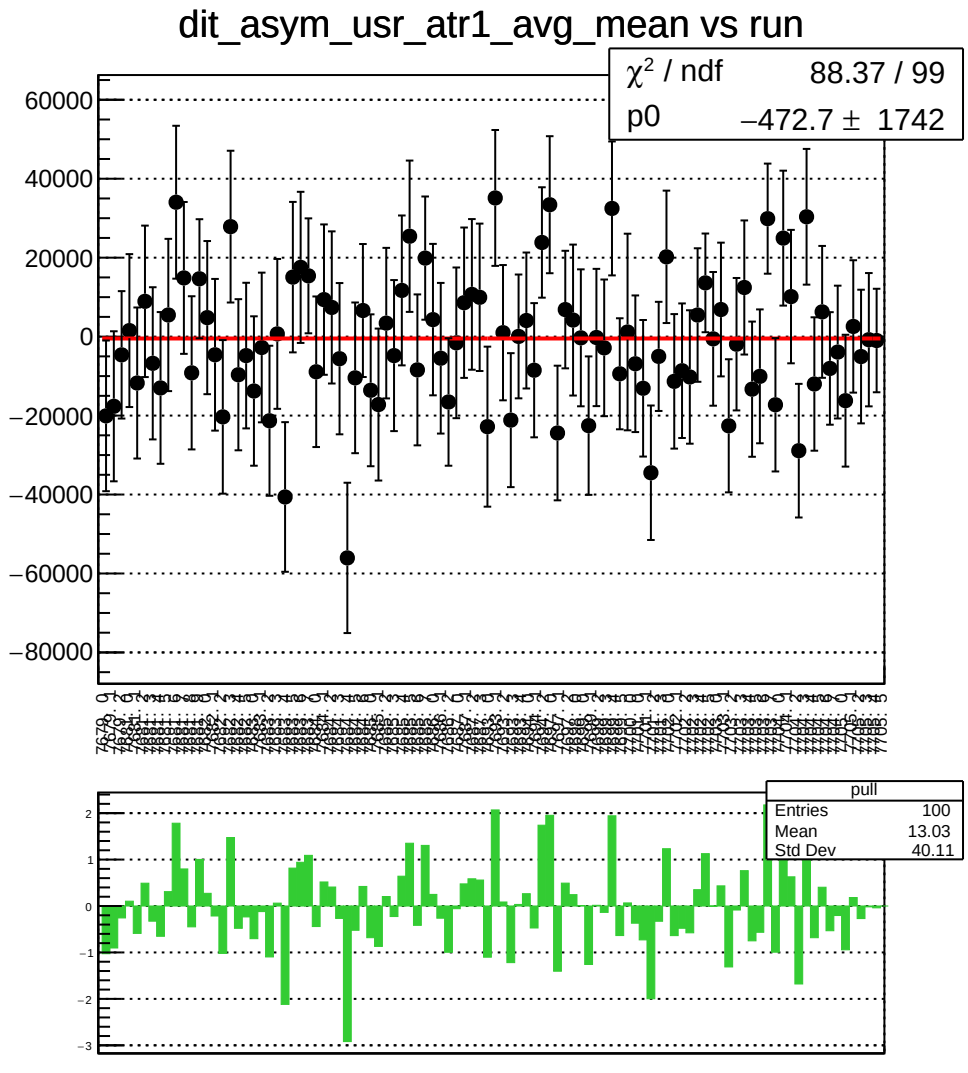

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 92.57 / 99
p0 −469.2 ± 1736
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −3.369
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean −0.01815
Std Dev 0.962
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

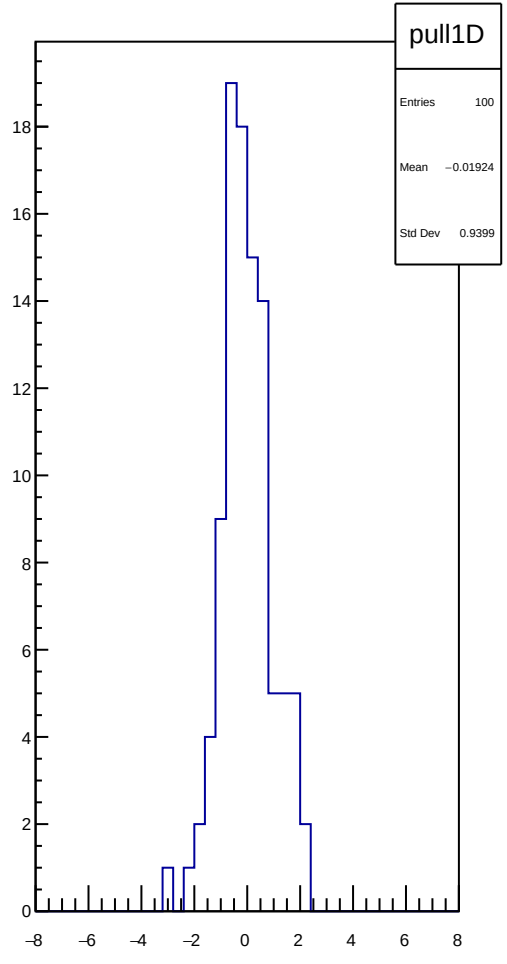

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 7094 / 99
p0 1700 ± 1.228
1950
1900
1850
1800
1750
1700
1650
1600
1550

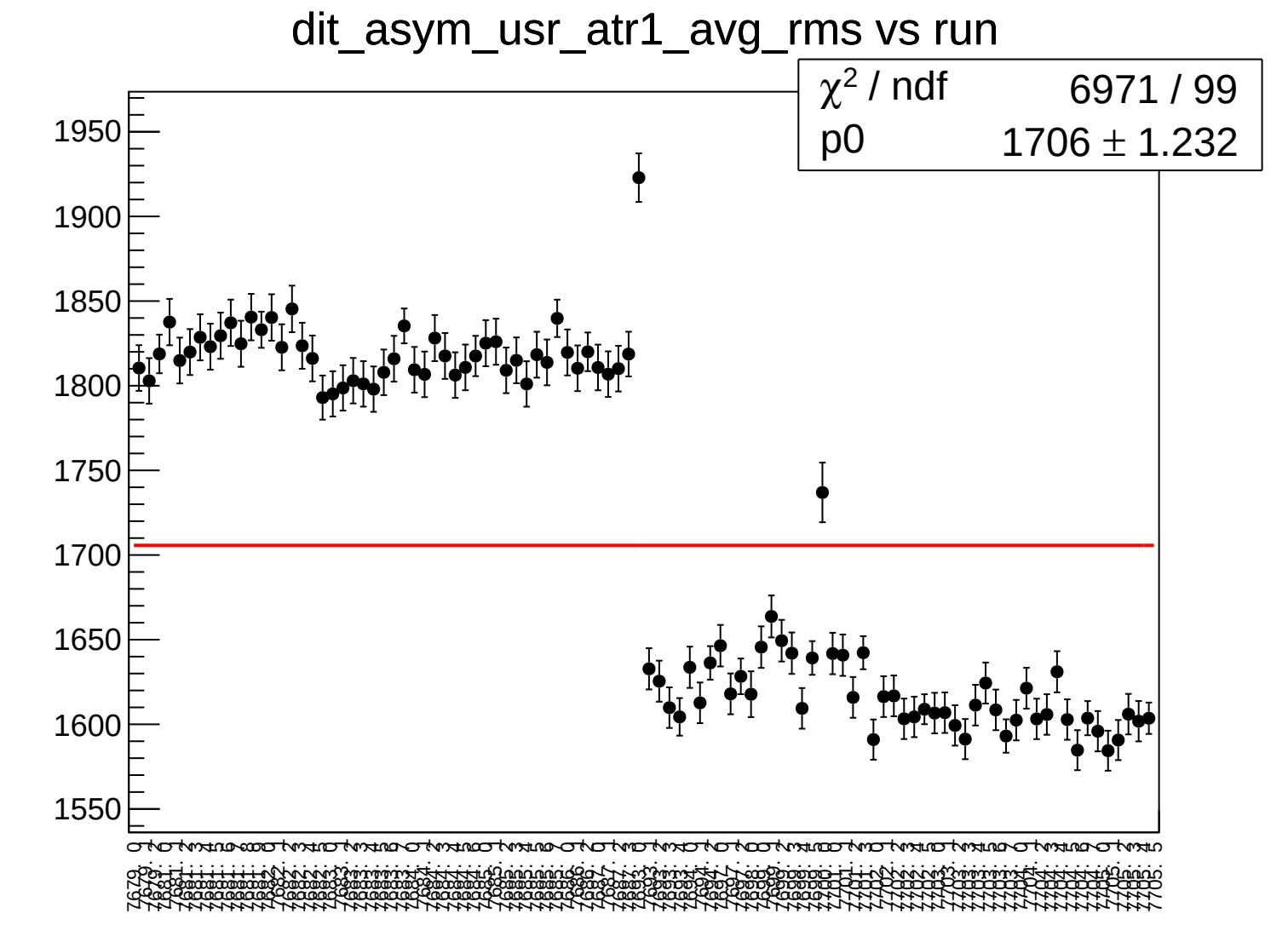

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 102.2 / 99
p0 3560 ± 2006
×10³
pull
Entries 100
Mean −134.9
Std Dev 0

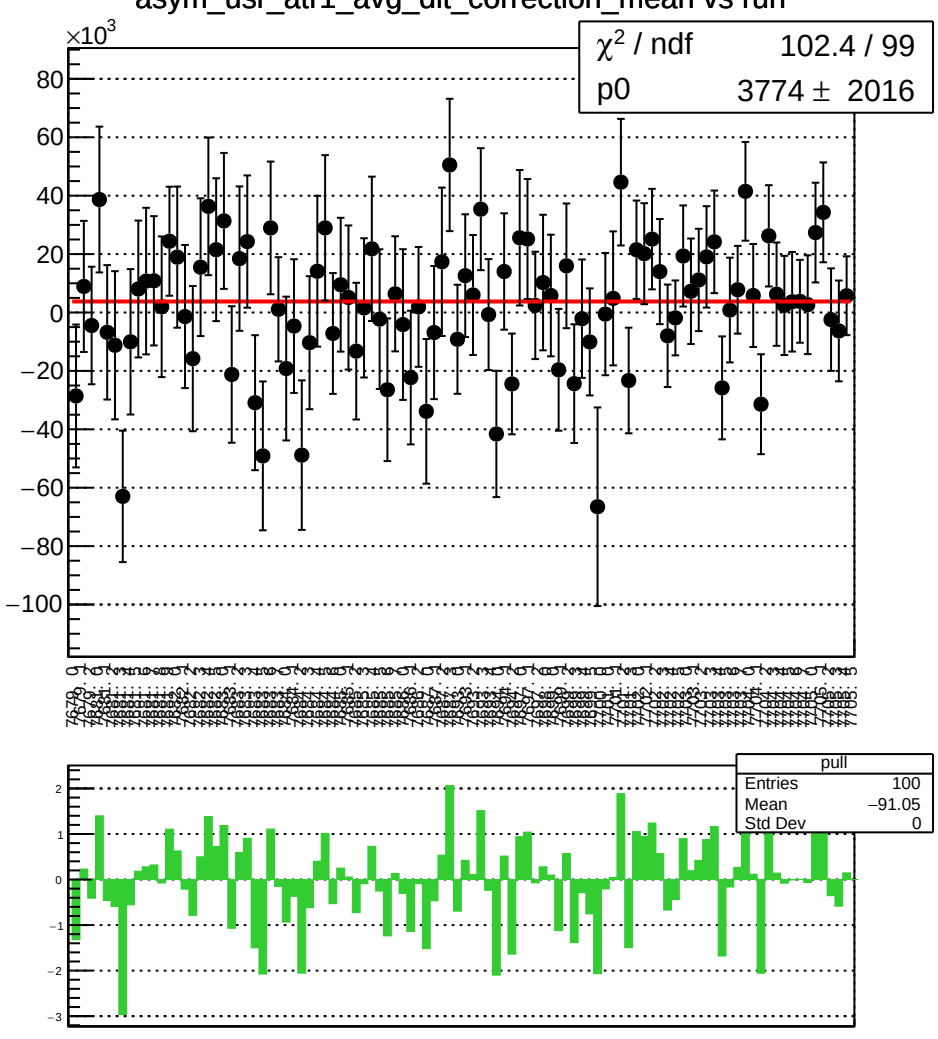

pull1D
Entries 100
Mean −0.02167
Std Dev 1.011

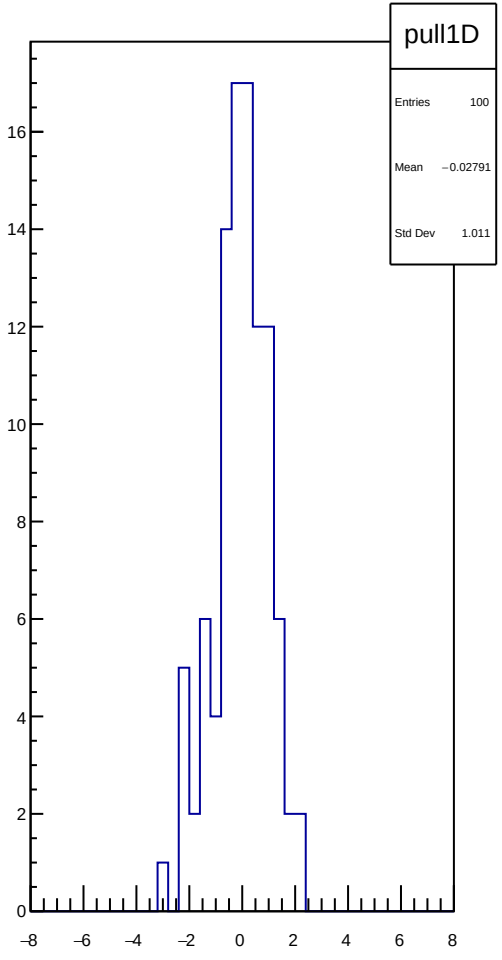

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 4.951e+04 / 99
p0 1942 ± 1.418
2600
2400
2200
2000
1800
1600

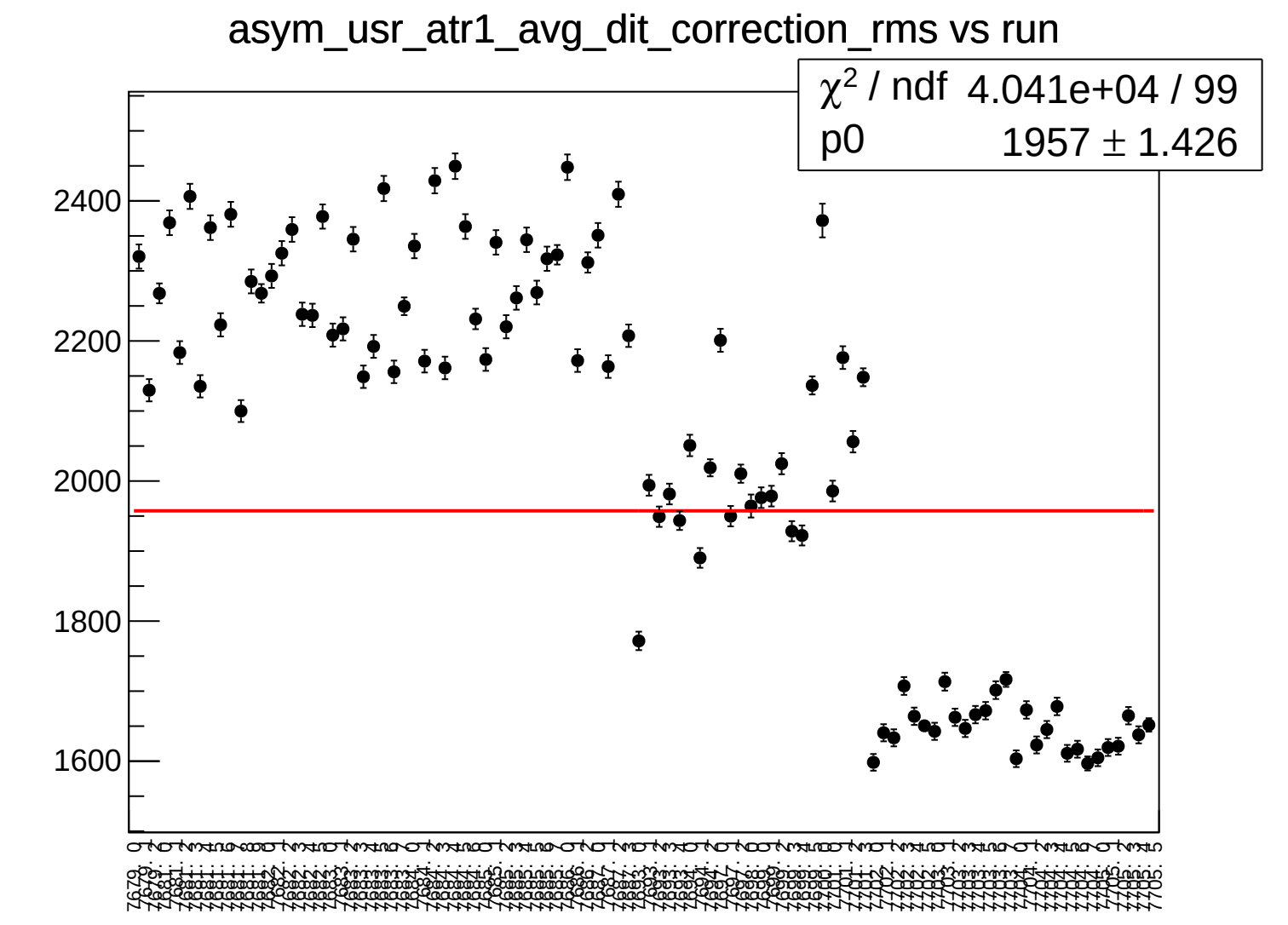

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 88.37 / 99
p0 −472.7 ± 1742
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean 13.03
Std Dev 40.11
2
1
0
−1
−2
−3

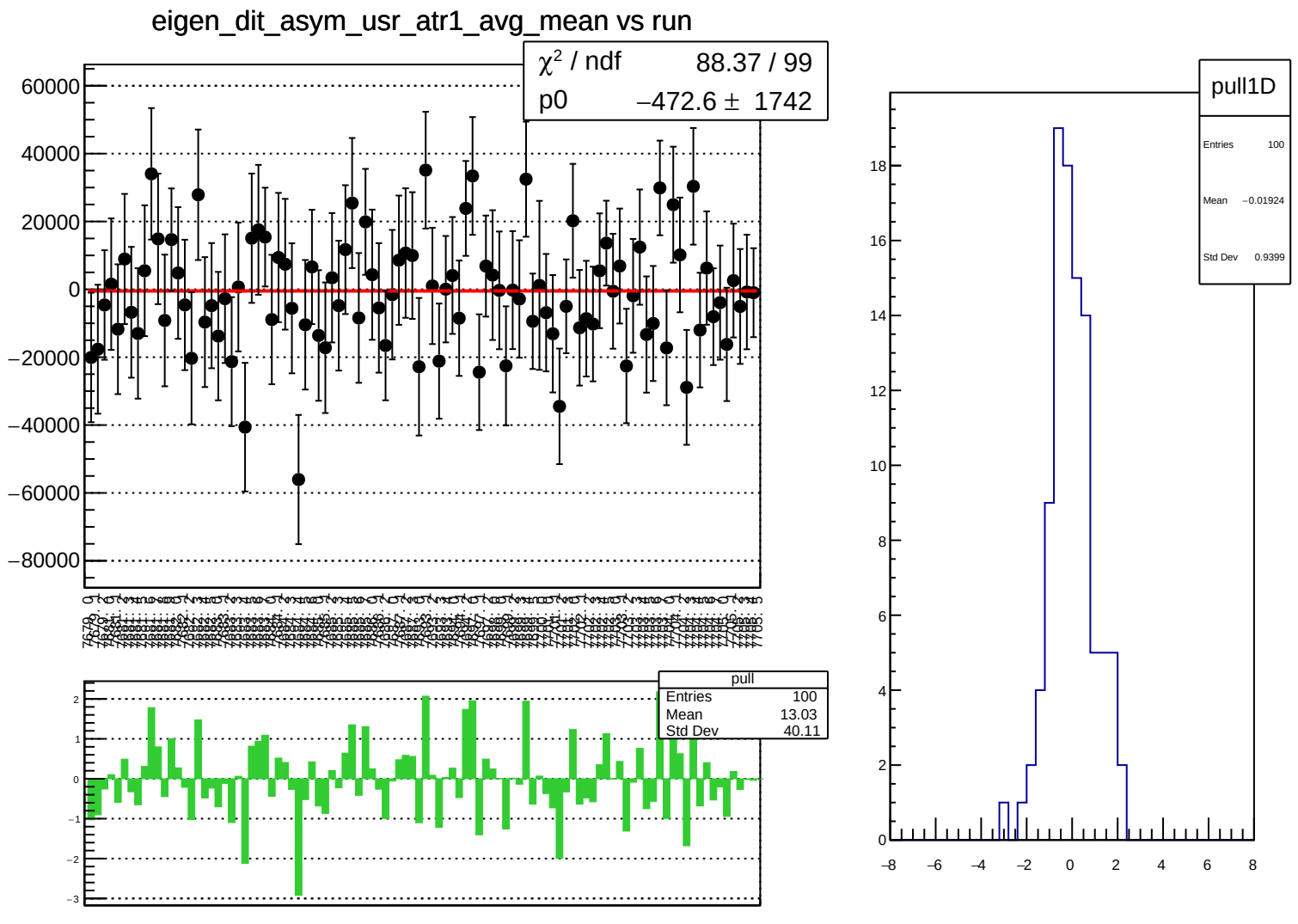

pull1D
Entries 100
Mean −0.01924
Std Dev 0.9399
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

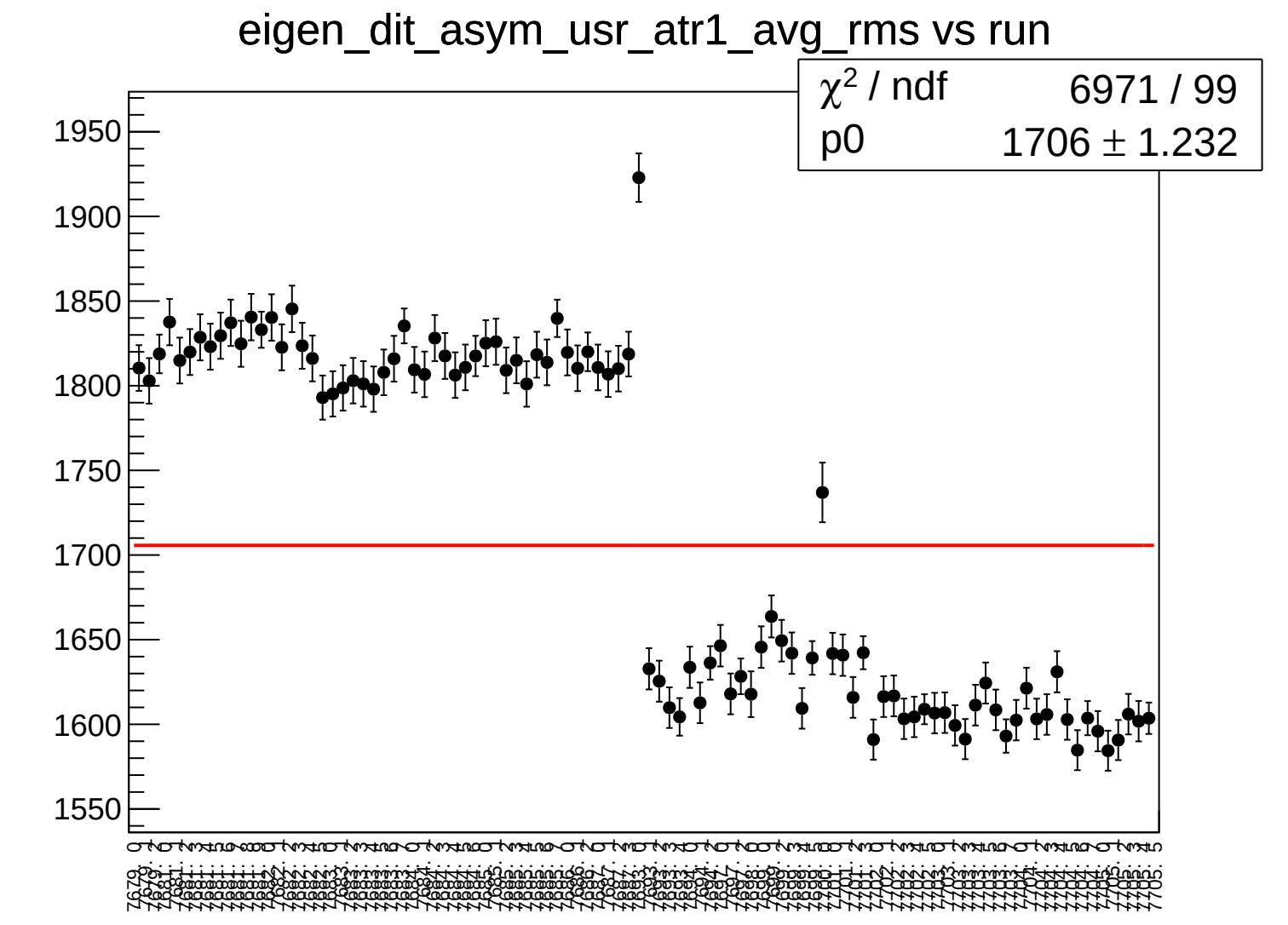

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 6971 / 99
p0 1706 ± 1.232
1950
1900
1850
1800
1750
1700
1650
1600
1550

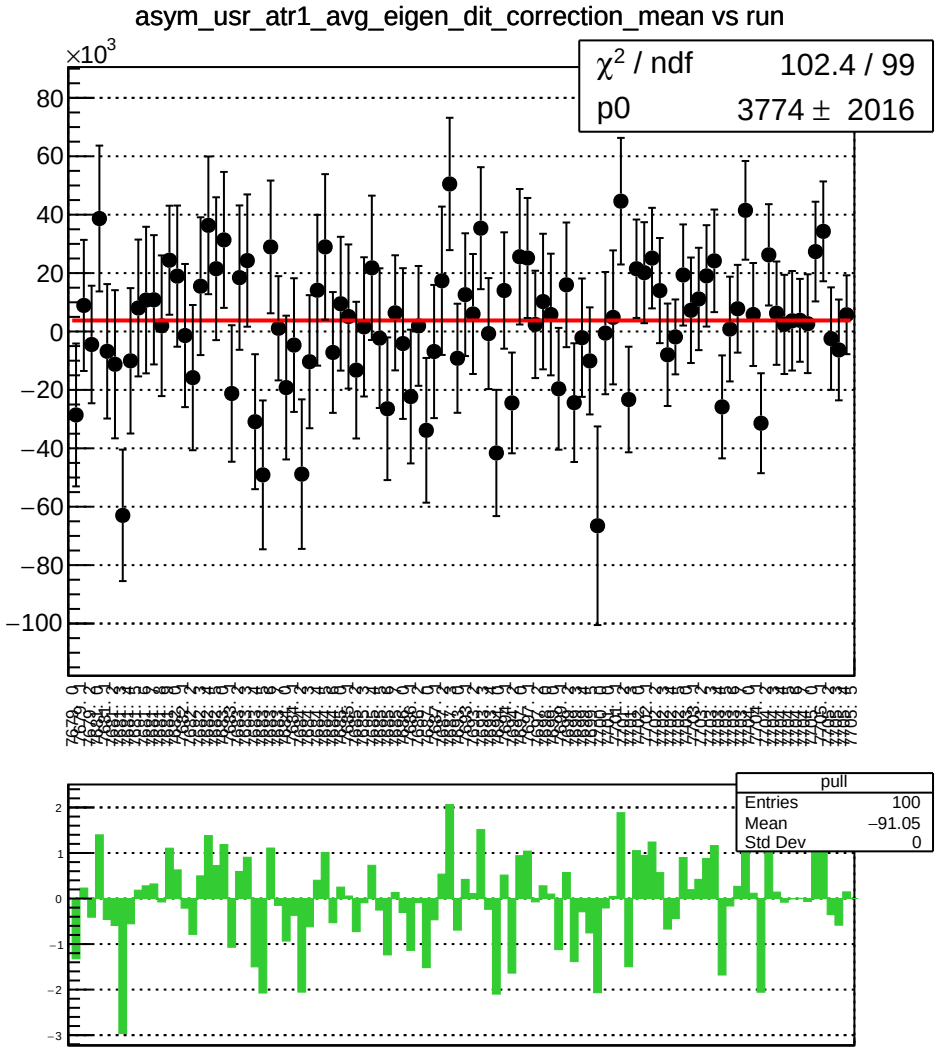

asym_usr_atr1_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 102.4 / 99
p0 3774 ± 2016
pull
Entries 100
Mean −91.05
Std Dev 0

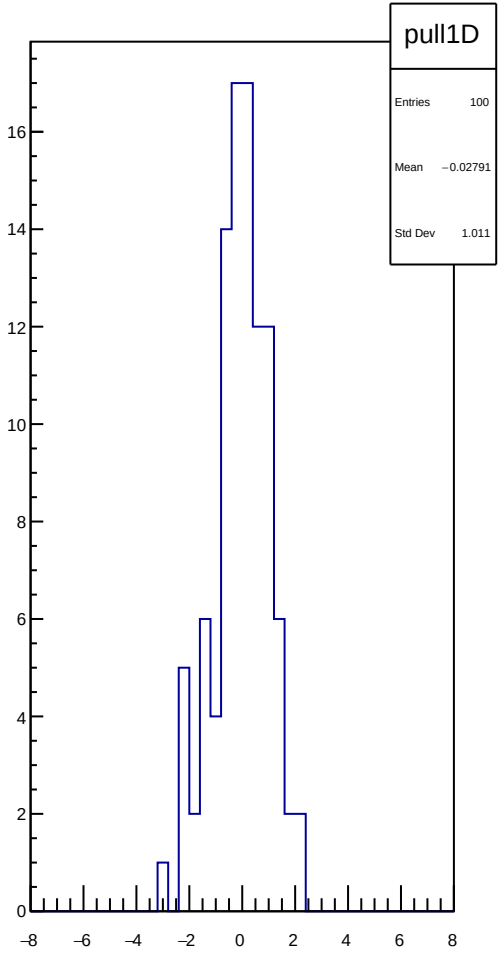

pull1D
Entries 100
Mean −0.02791
Std Dev 1.011

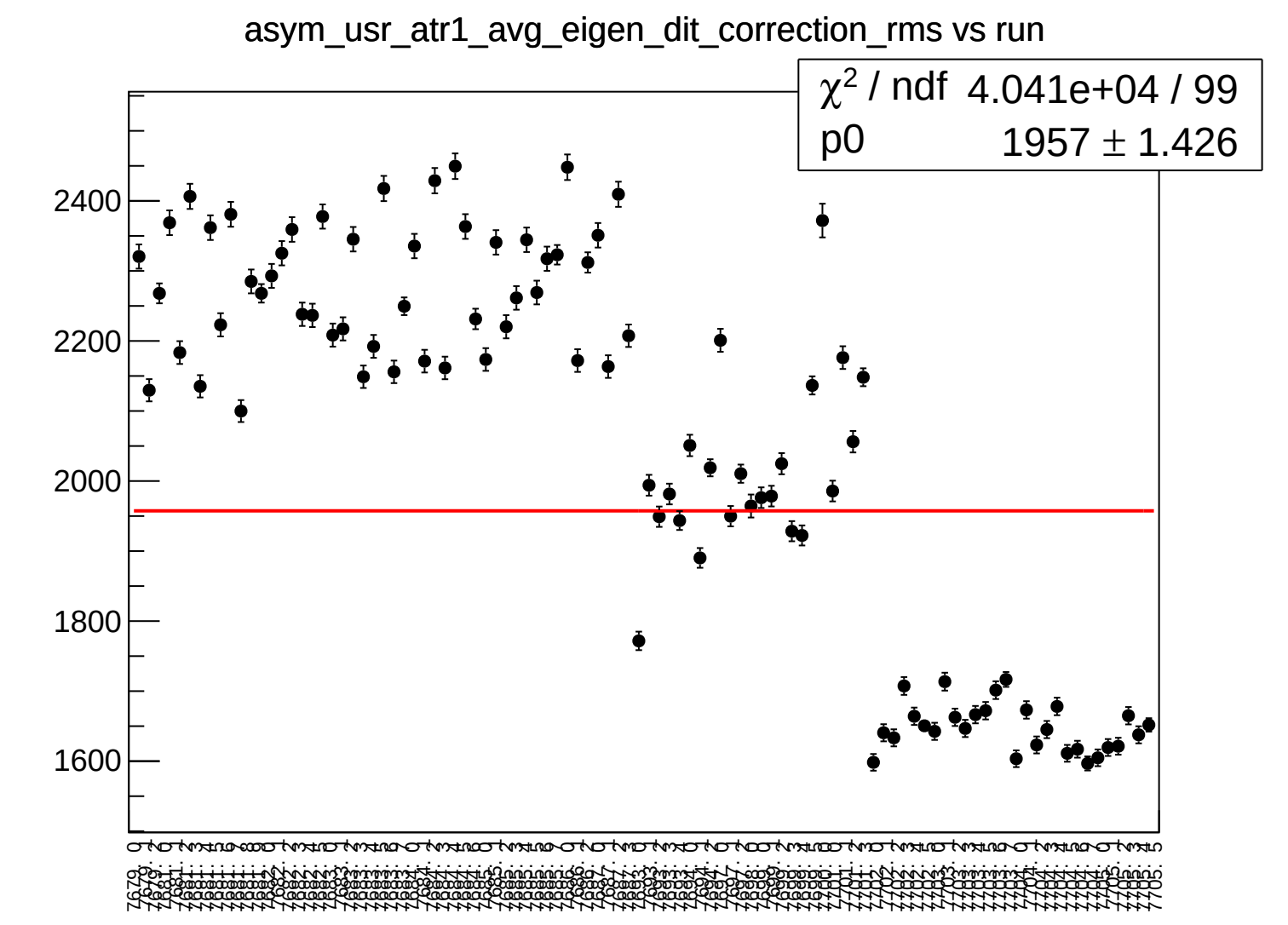

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 4.041e+04 / 99
p0 1957 ± 1.426
2400
2200
2000
1800
1600

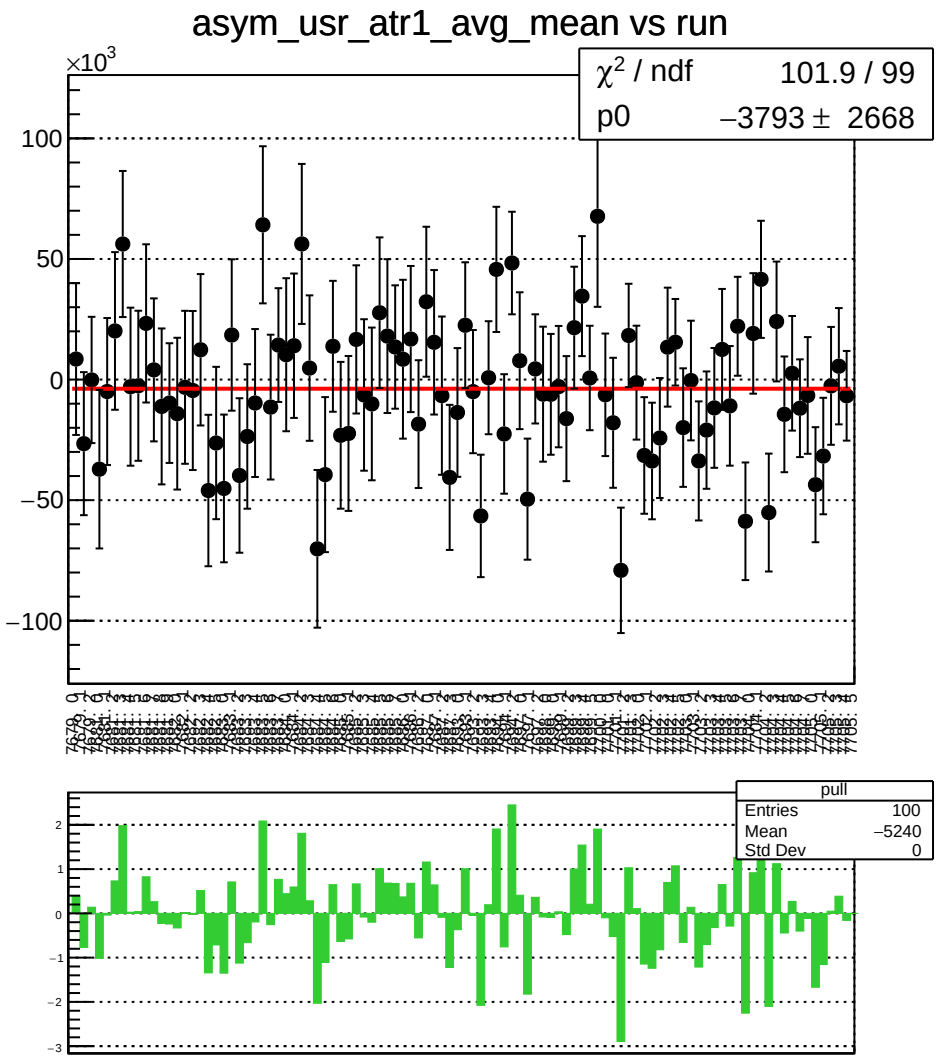

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 88.37 / 99
p0 −472.6 ± 1742
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean 13.03
Std Dev 40.11
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean −0.01924
Std Dev 0.9399
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

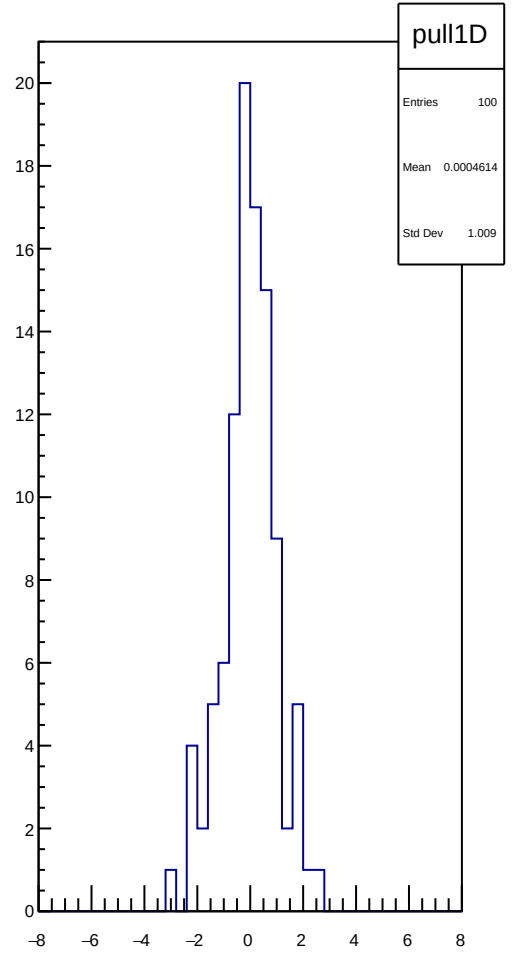

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 6971 / 99
p0 1706 ± 1.232
1950
1900
1850
1800
1750
1700
1650
1600
1550

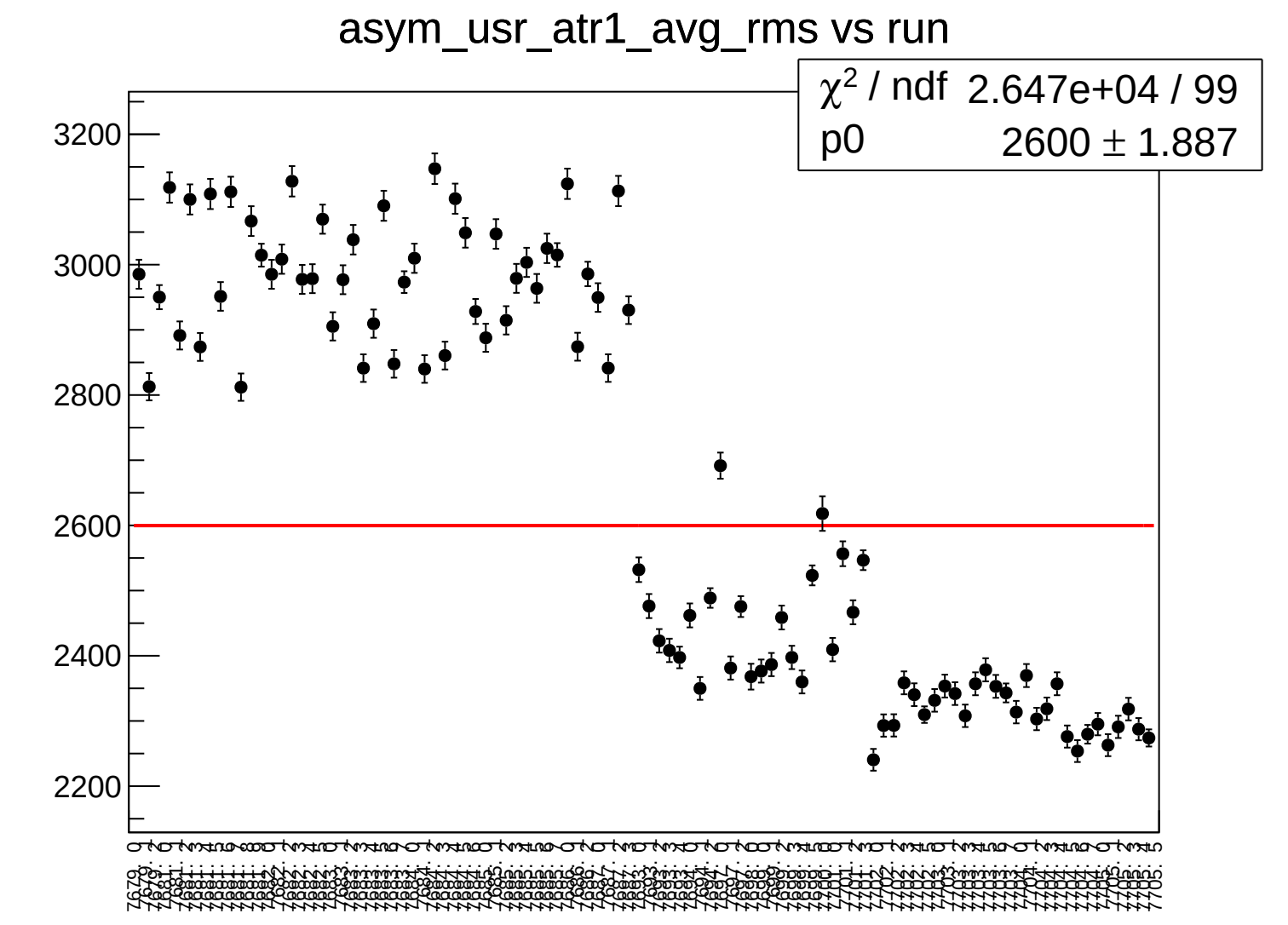

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 102.4 / 99
p0 3774 ± 2016
pull
Entries 100
Mean −91.05
Std Dev 0

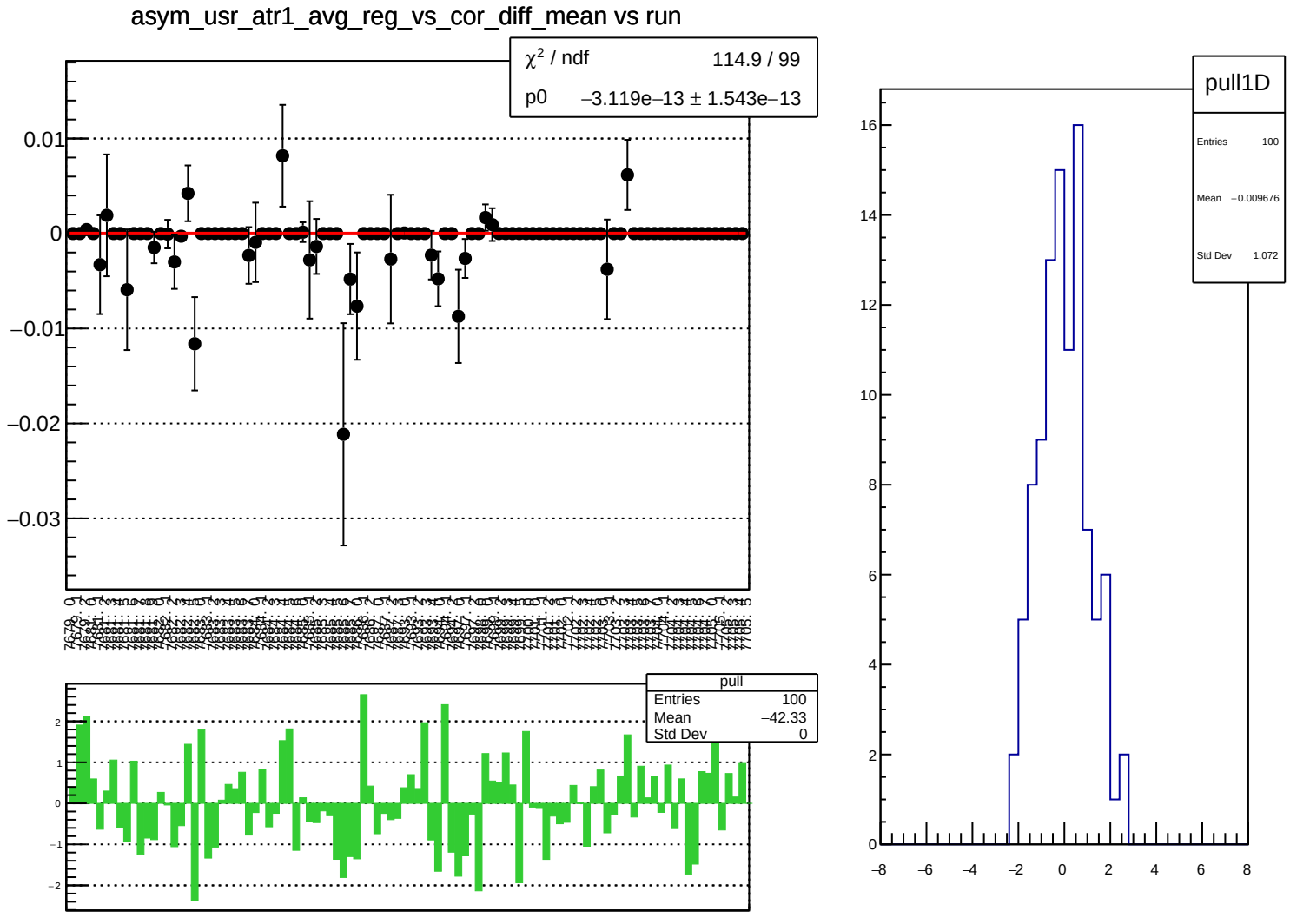

pull1D
Entries 100
Mean −0.02791
Std Dev 1.011

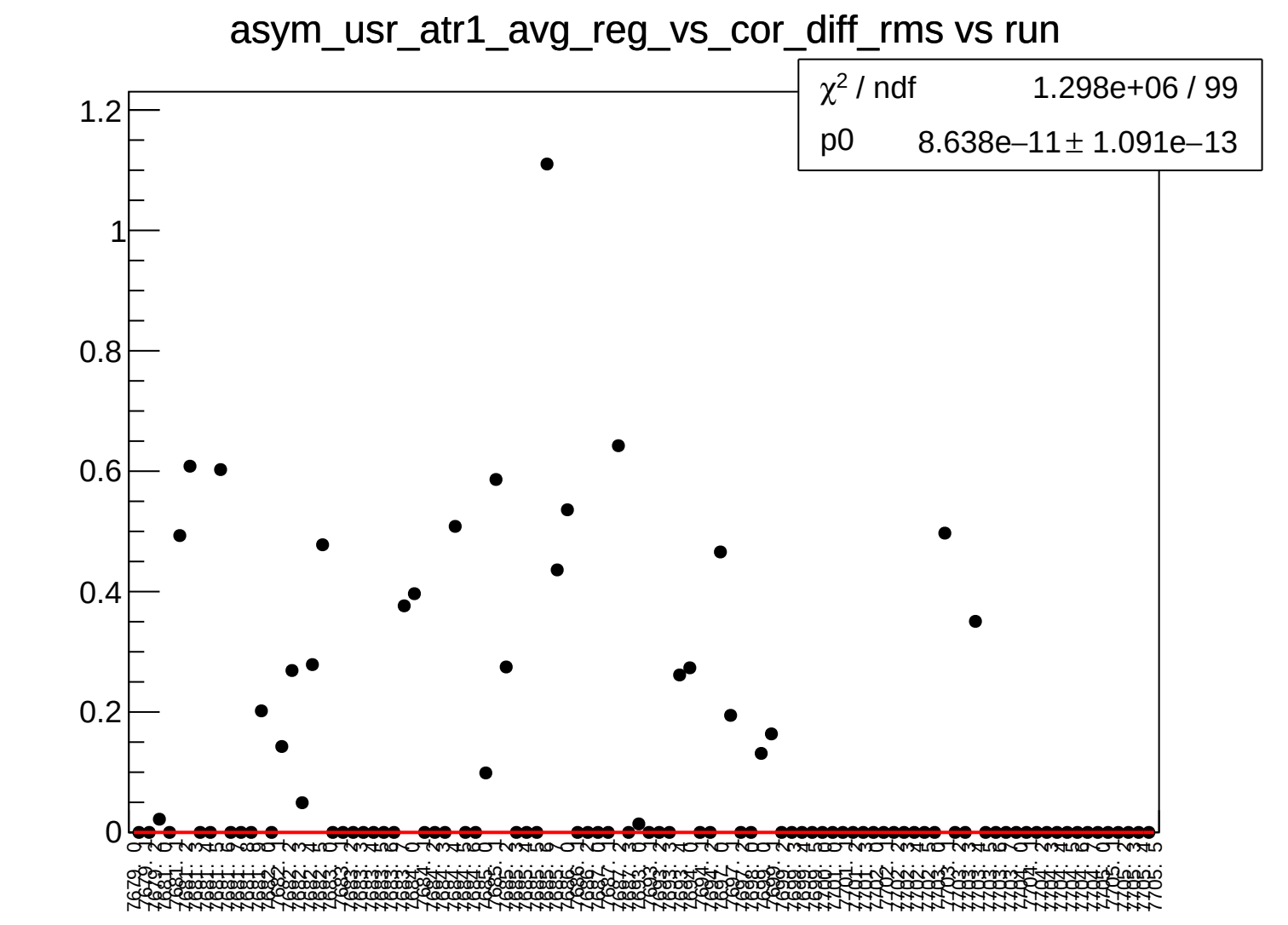

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 4.041e+04 / 99
p0 1957 ± 1.426
2400
2200
2000
1800
1600

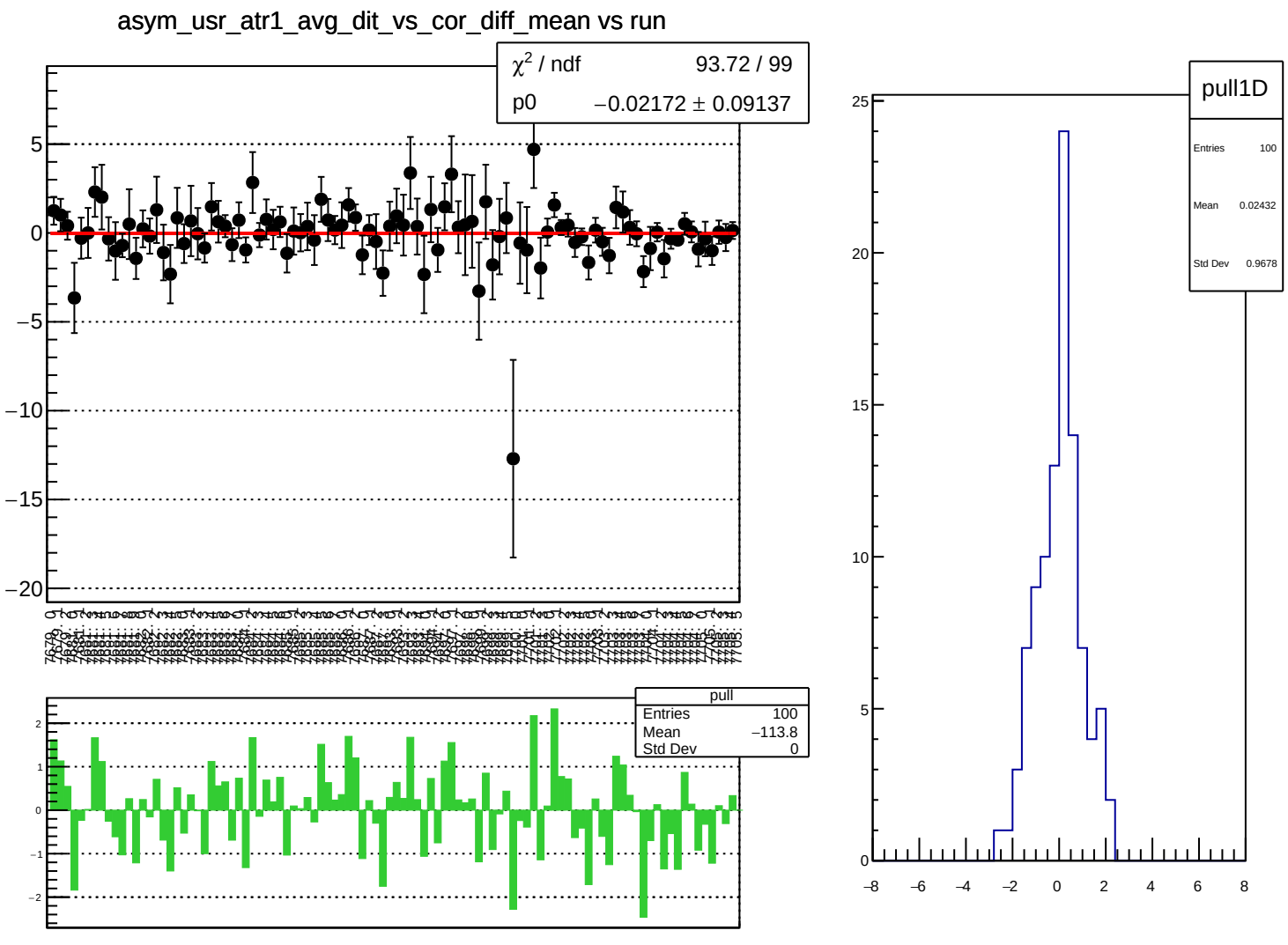

asym_usr_atr1_avg_mean vs run
×10^3
χ² / ndf 101.9 / 99
p0 −3793 ± 2668
100
50
0
−50
−100
pull
Entries 100
Mean −5240
Std Dev 0
2
1
0
−1
−2
−3

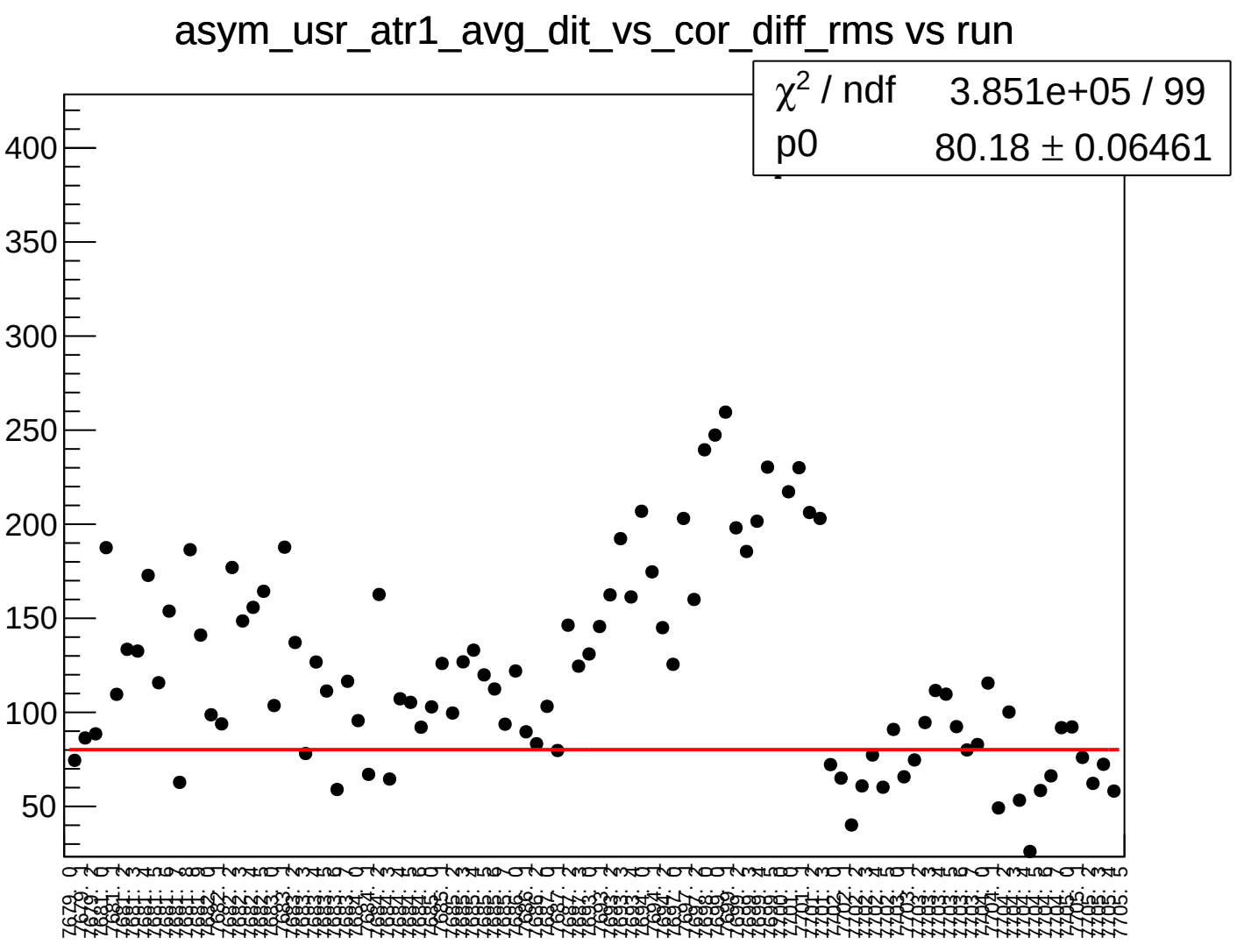

pull1D
Entries 100
Mean 0.0004614
Std Dev 1.009
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

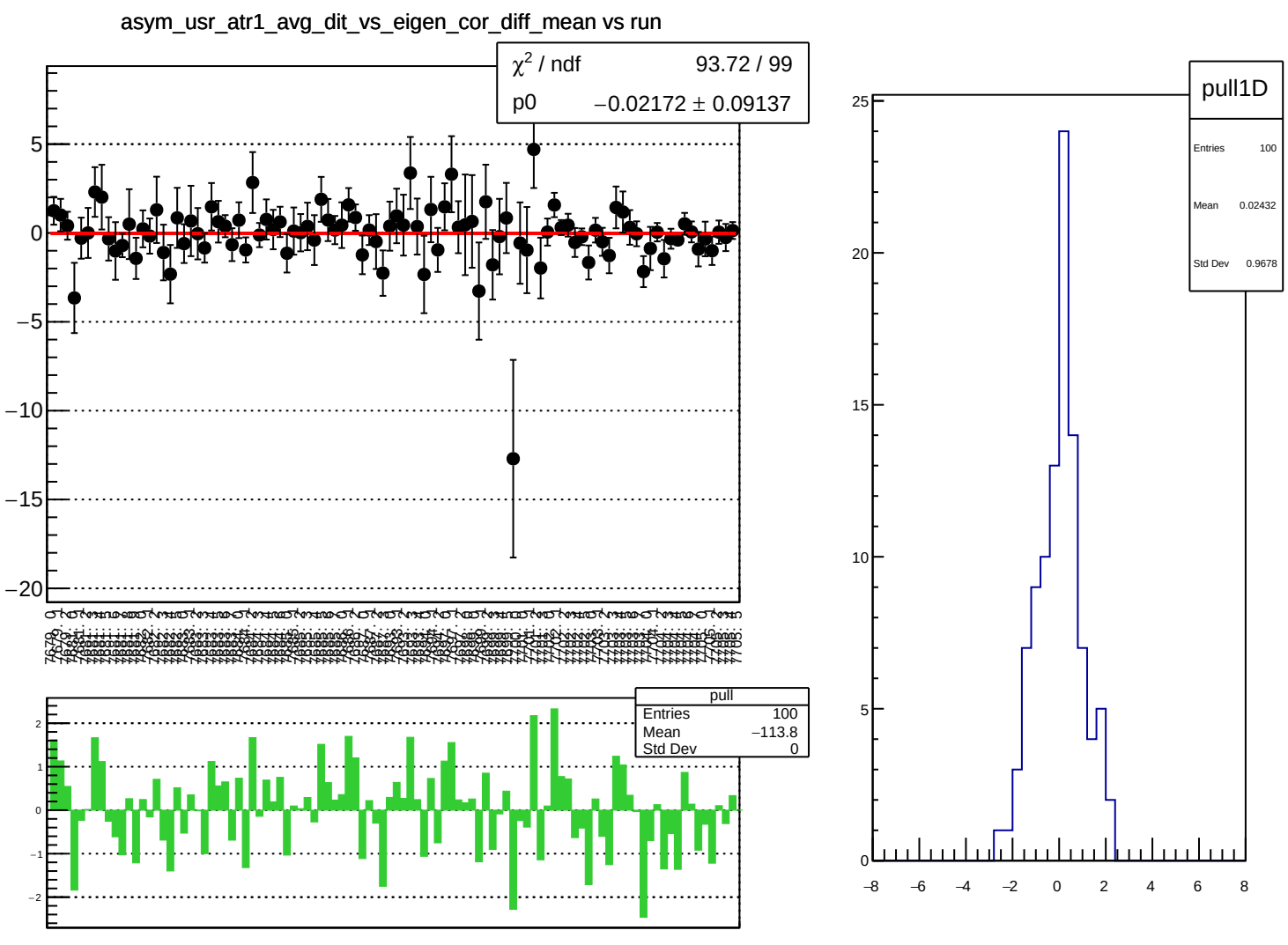

asym_usr_atr1_avg_rms vs run
χ² / ndf 2.647e+04 / 99
p0 2600 ± 1.887
3200
3000
2800
2600
2400
2200

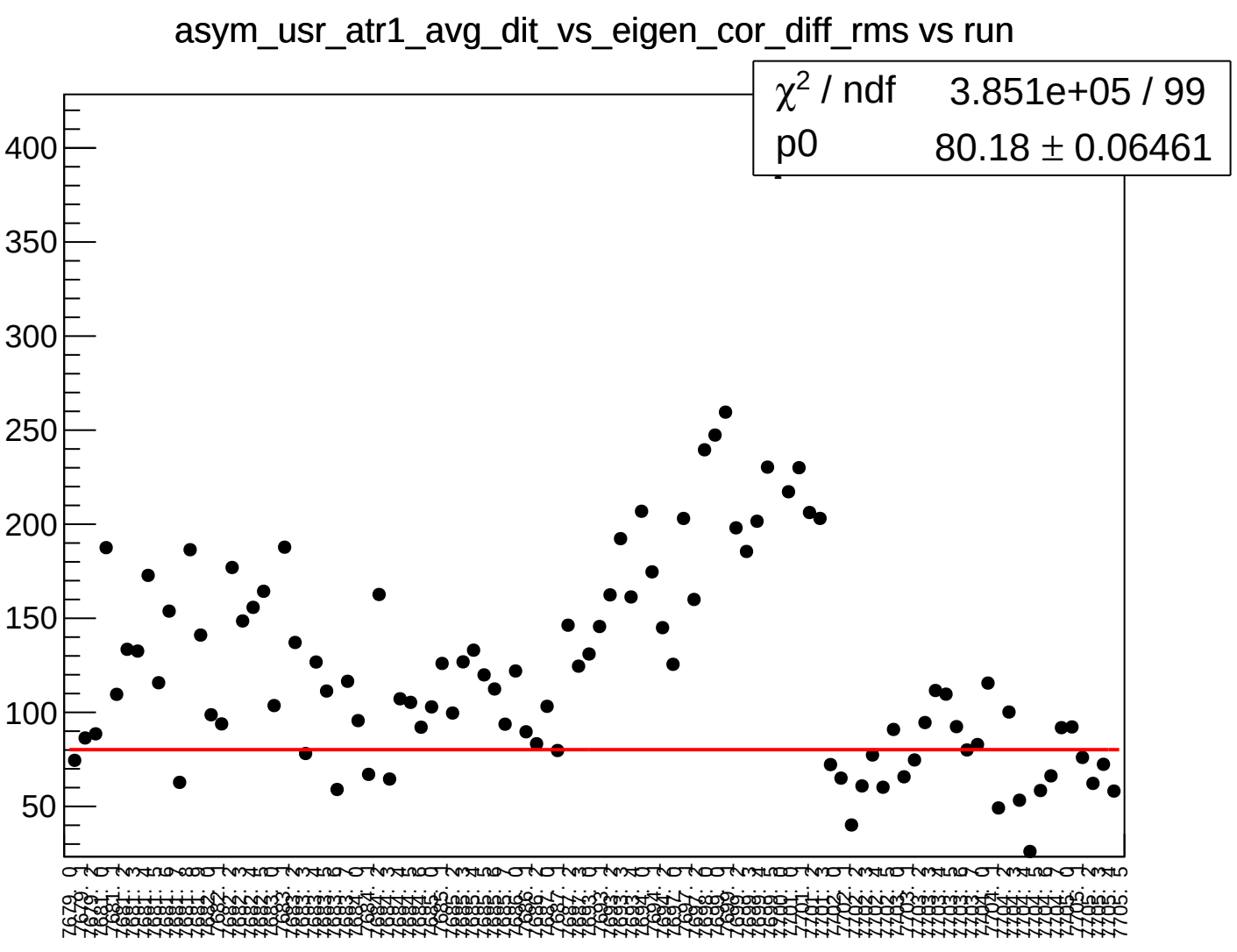

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 114.9 / 99
p0 −3.119e−13 ± 1.543e−13
0.01
0
−0.01
−0.02
−0.03
pull
Entries 100
Mean −42.33
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.009676
Std Dev 1.072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

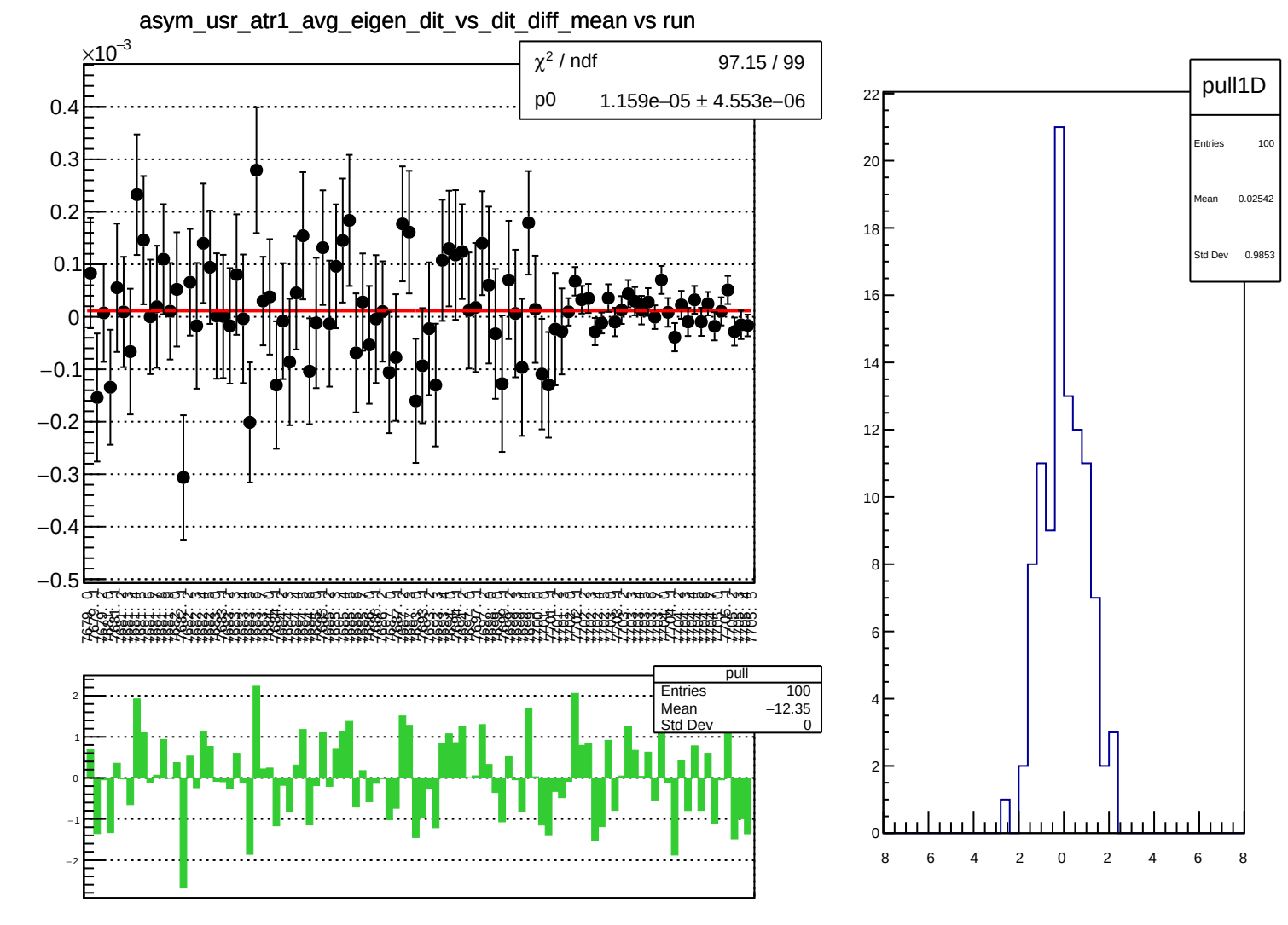

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.298e+06 / 99
p0 8.638e−11 ± 1.091e−13
1.2
1
0.8
0.6
0.4
0.2
0

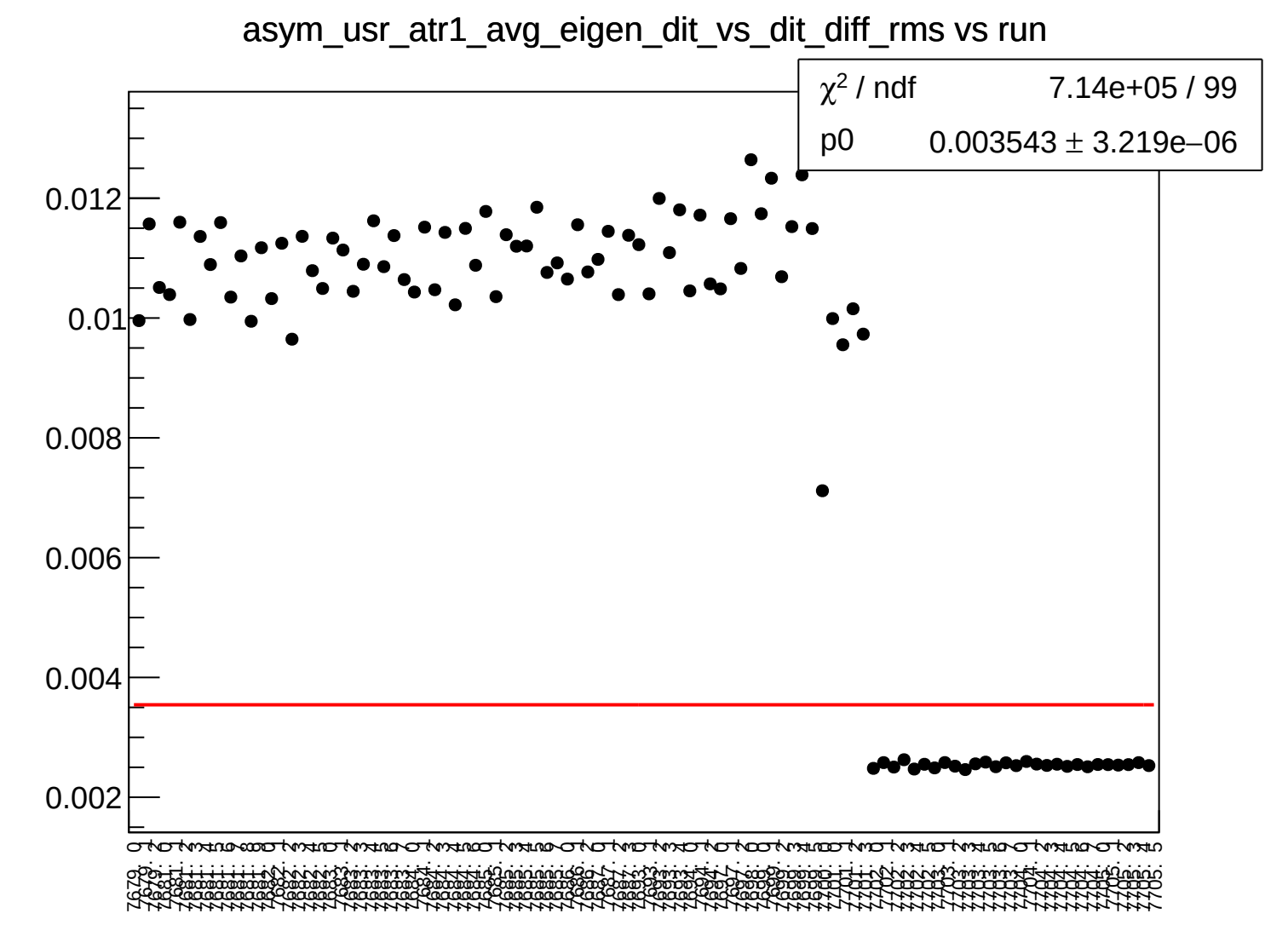

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.72 / 99
p0 −0.02172 ± 0.09137
pull
Entries 100
Mean −113.8
Std Dev 0
pull1D
Entries 100
Mean 0.02432
Std Dev 0.9678

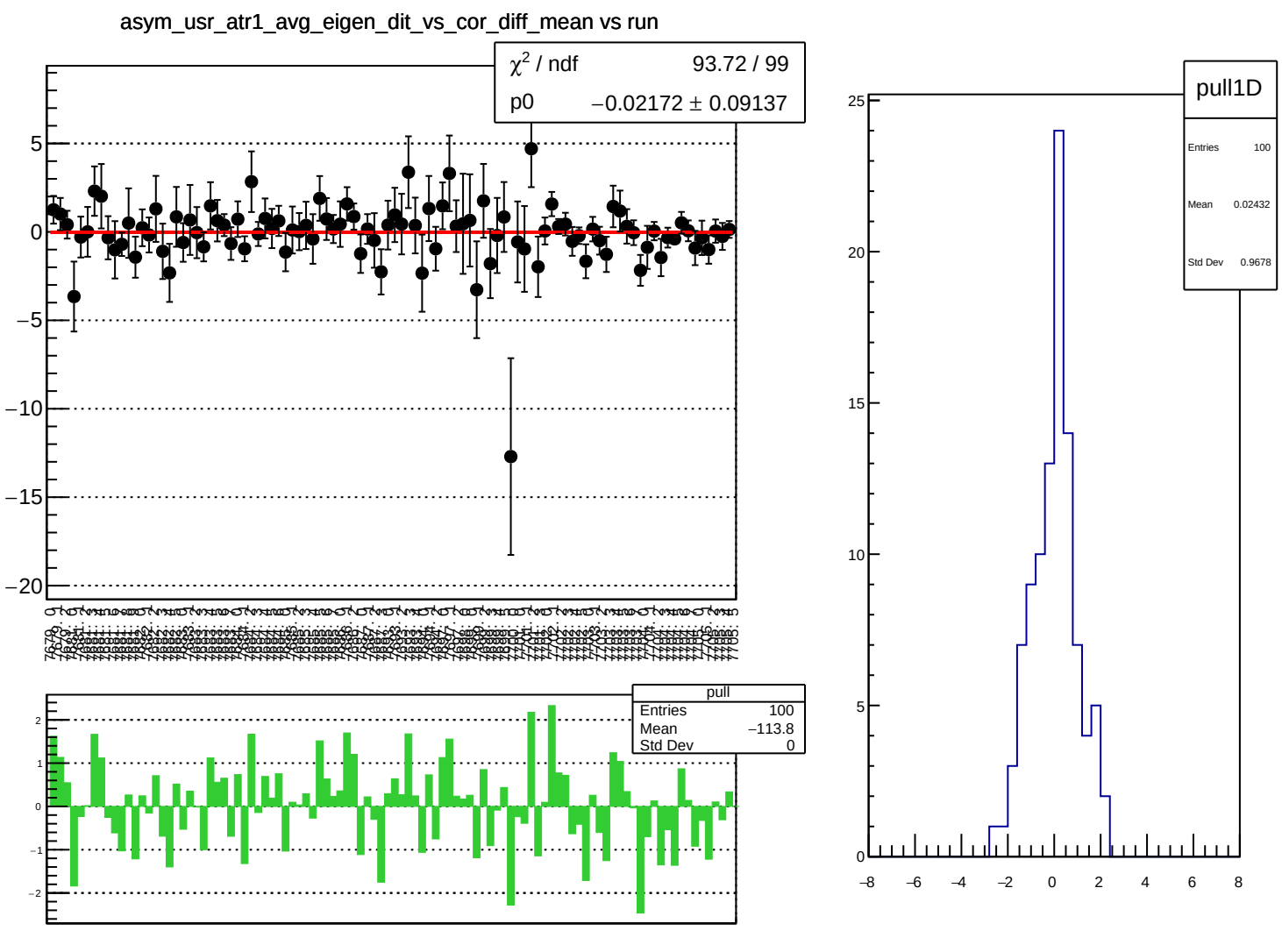

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.851e+05 / 99
p0 80.18 ± 0.06461
400
350
300
250
200
150
100
50

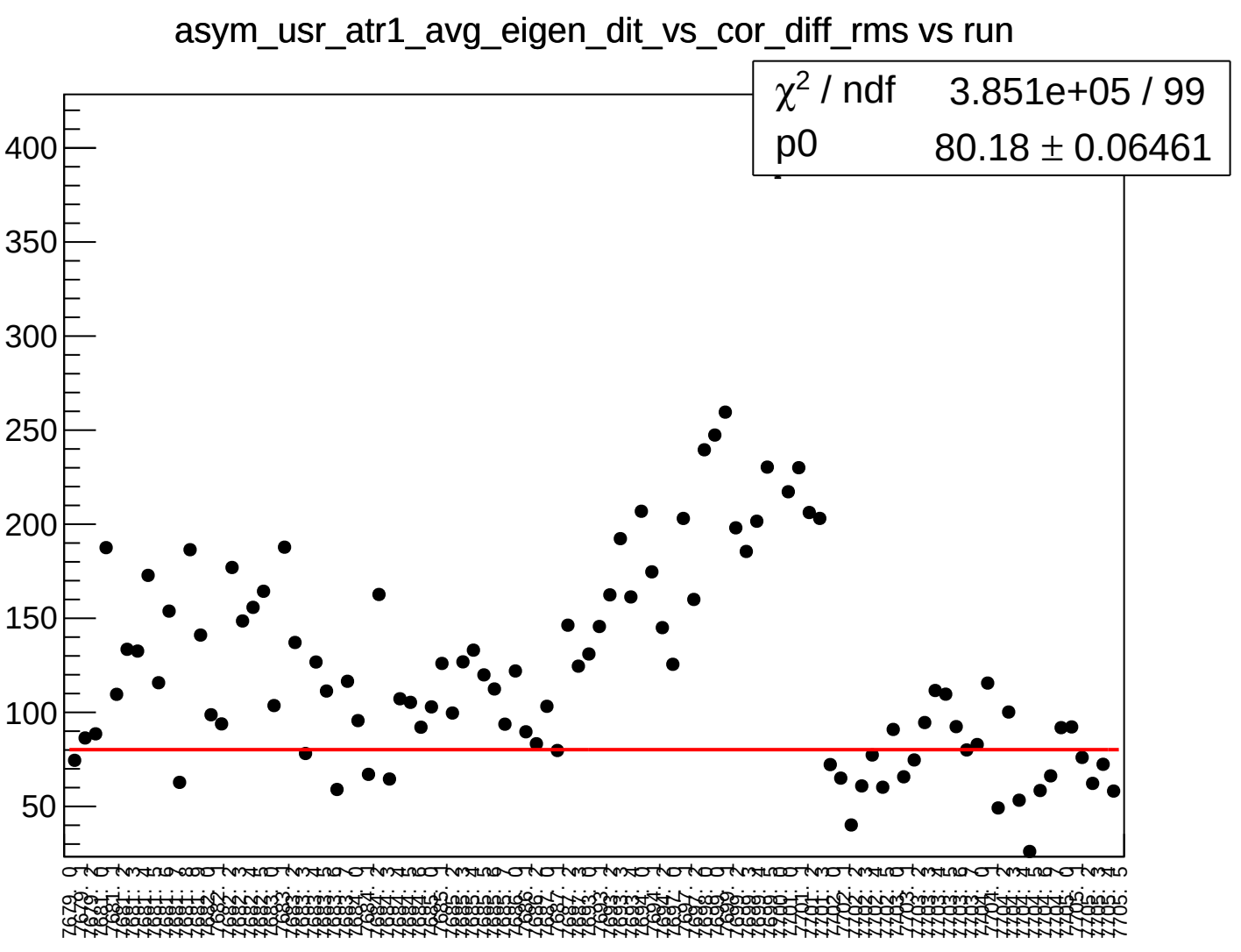

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.72 / 99
p0 −0.02172 ± 0.09137
5
0
−5
−10
−15
−20
pull
Entries 100
Mean −113.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.02432
Std Dev 0.9678
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

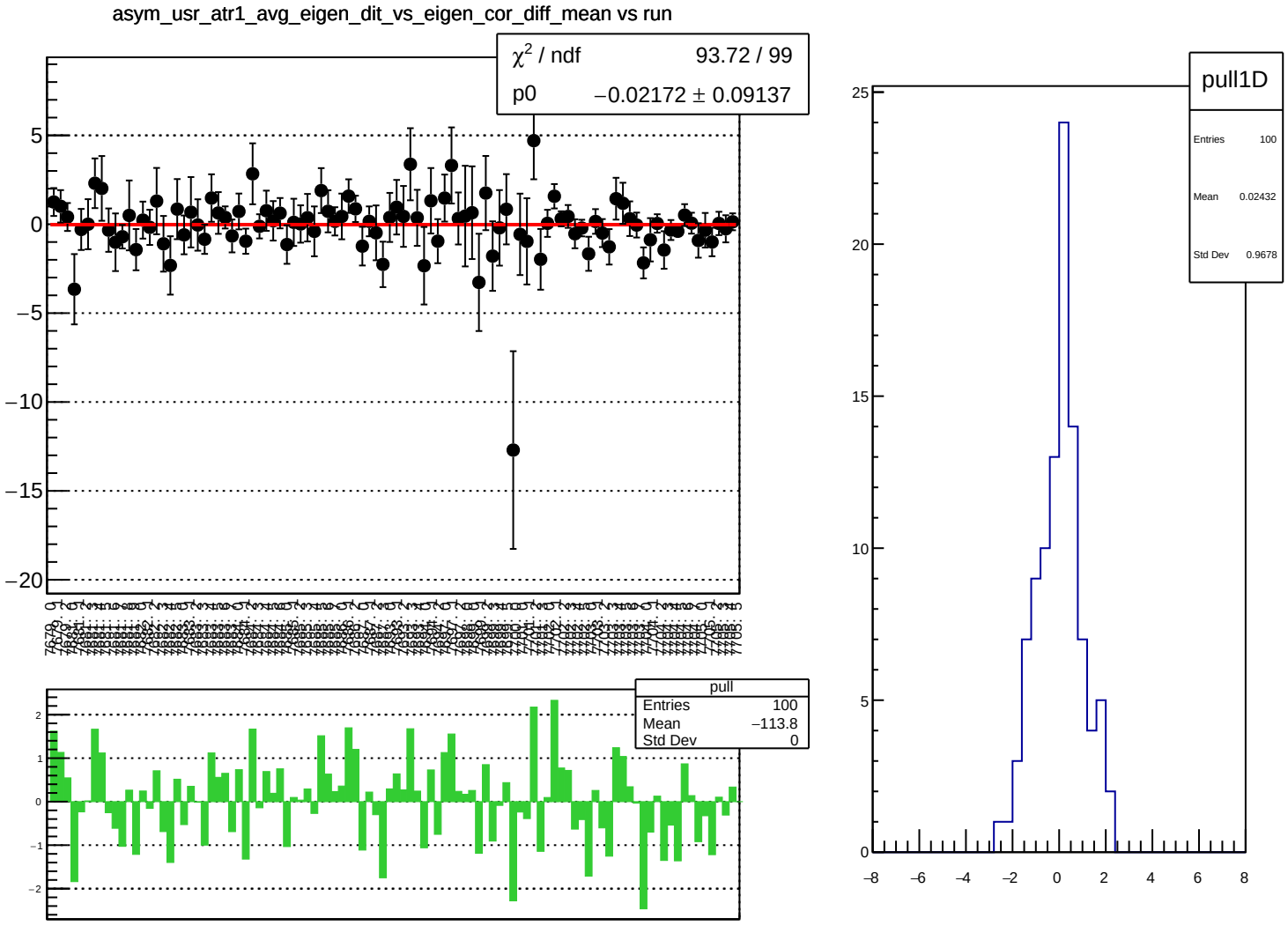

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.851e+05 / 99
p0 80.18 ± 0.06461
400
350
300
250
200
150
100
50

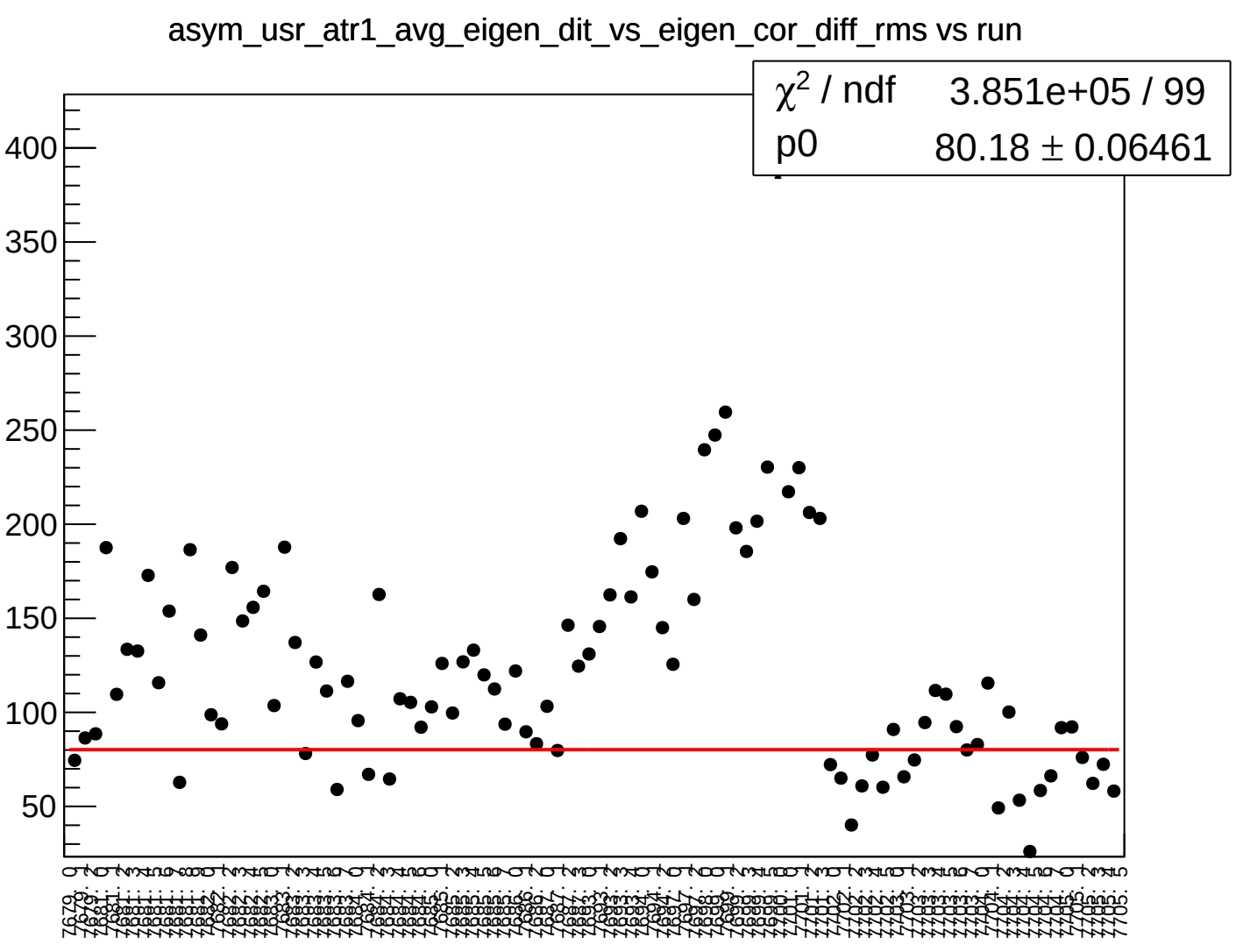

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.15 / 99
p0 1.159e−05 ± 4.553e−06
pull
Entries 100
Mean −12.35
Std Dev 0
pull1D
Entries 100
Mean 0.02542
Std Dev 0.9853

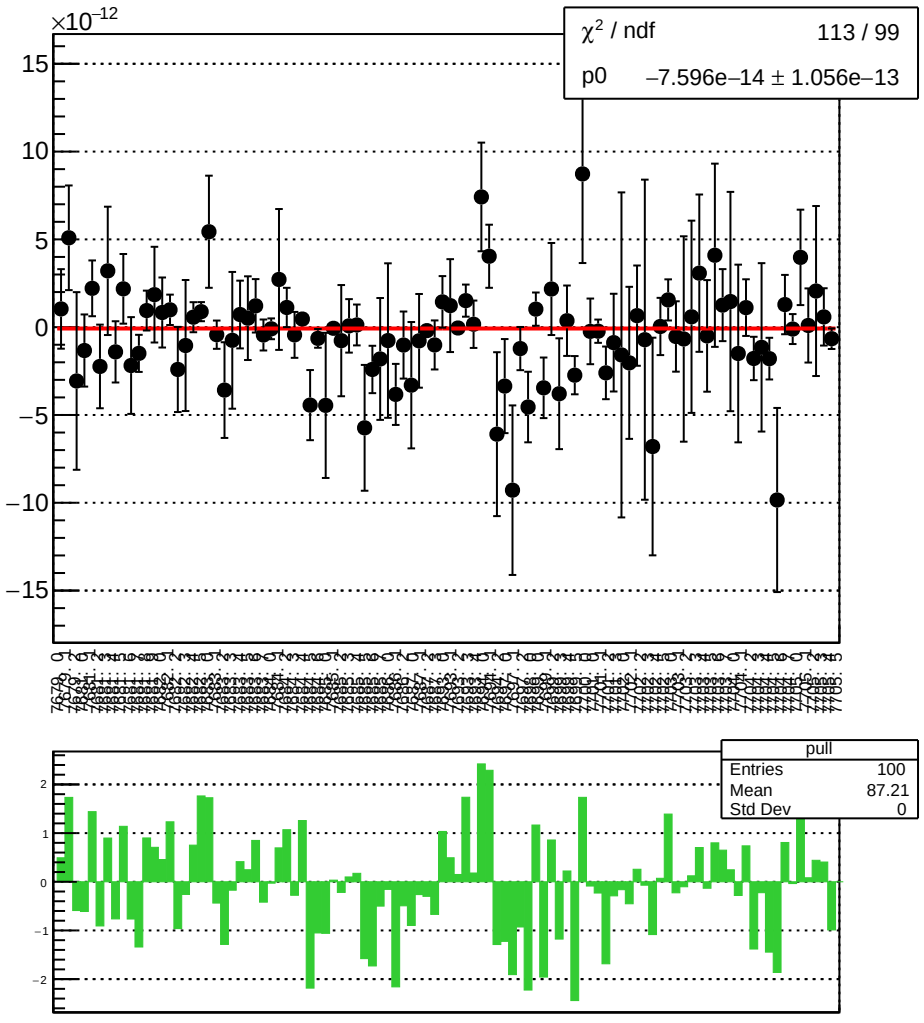

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.14e+05 / 99
p0 0.003543 ± 3.219e−06
0.012
0.01
0.008
0.006
0.004
0.002

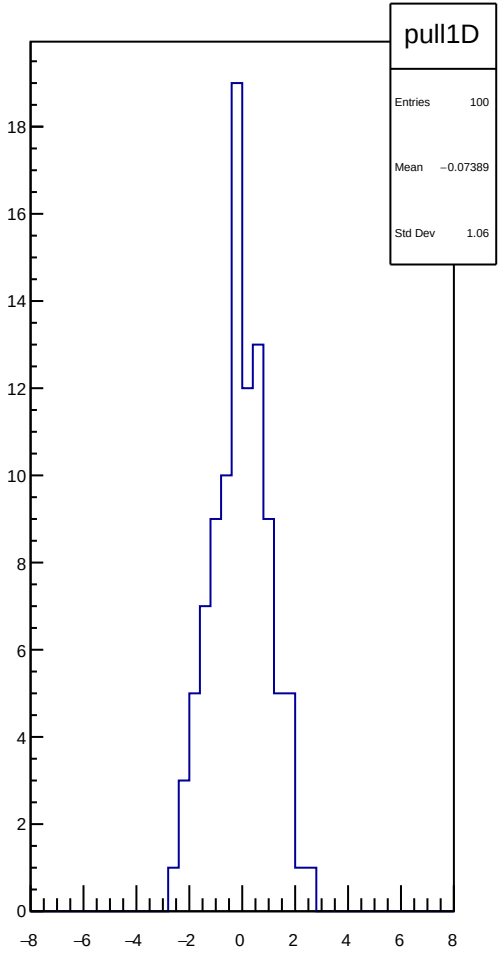

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.72 / 99
p0 −0.02172 ± 0.09137
pull
Entries 100
Mean −113.8
Std Dev 0
pull1D
Entries 100
Mean 0.02432
Std Dev 0.9678

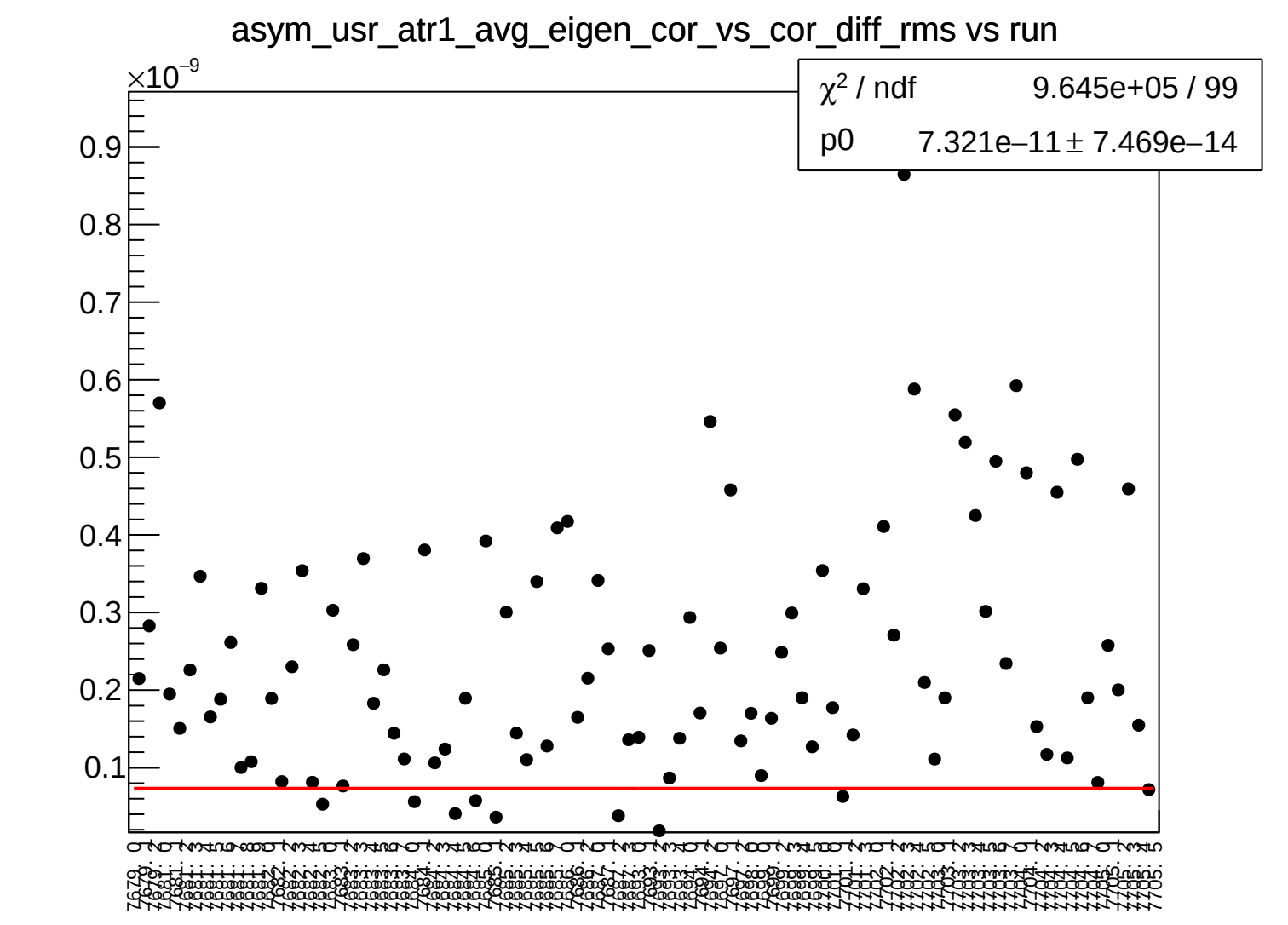

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.851e+05 / 99
p0 80.18 ± 0.06461
400
350
300
250
200
150
100
50

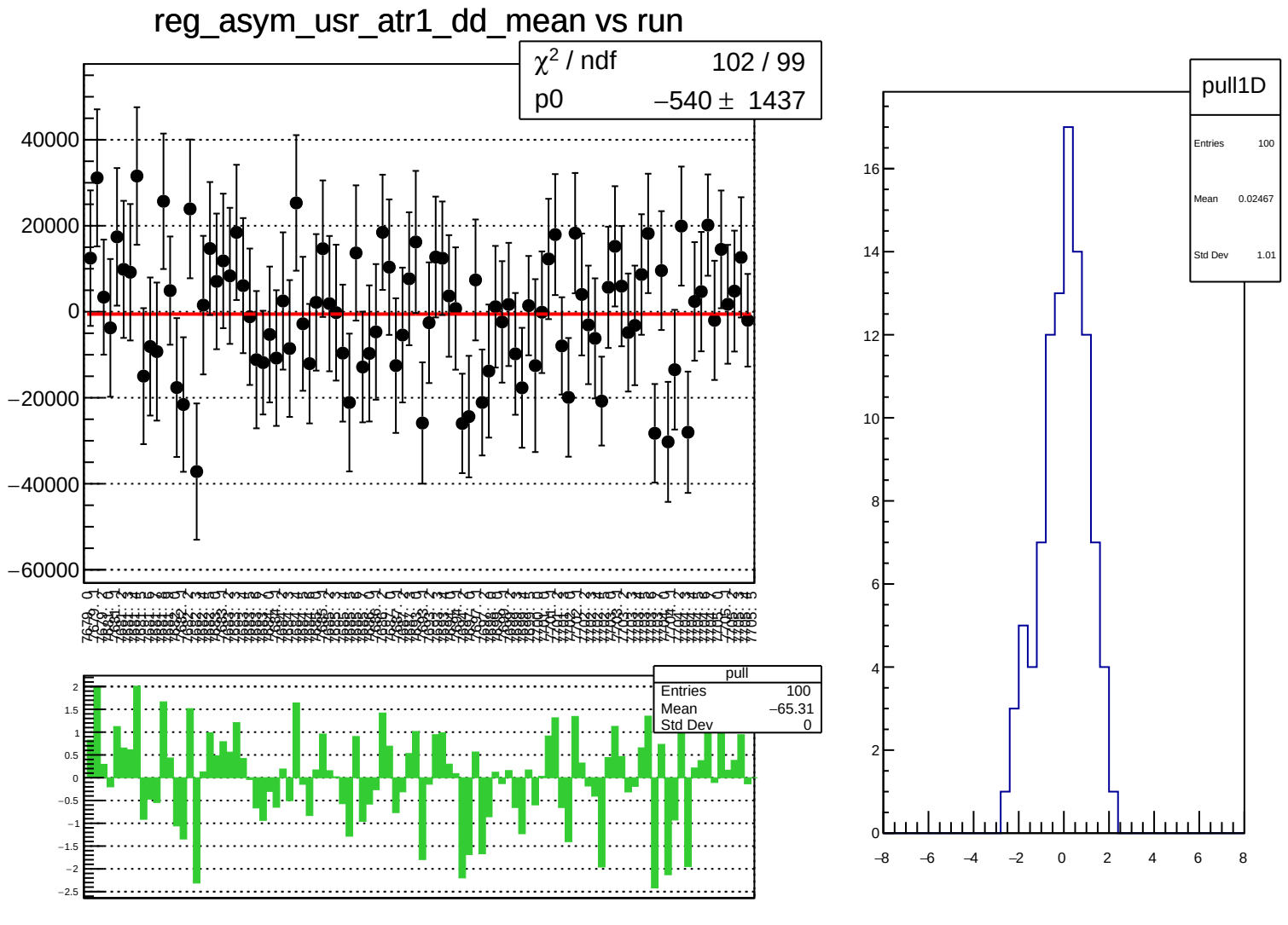

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.72 / 99
p0 −0.02172 ± 0.09137
pull
Entries 100
Mean −113.8
Std Dev 0
pull1D
Entries 100
Mean 0.02432
Std Dev 0.9678

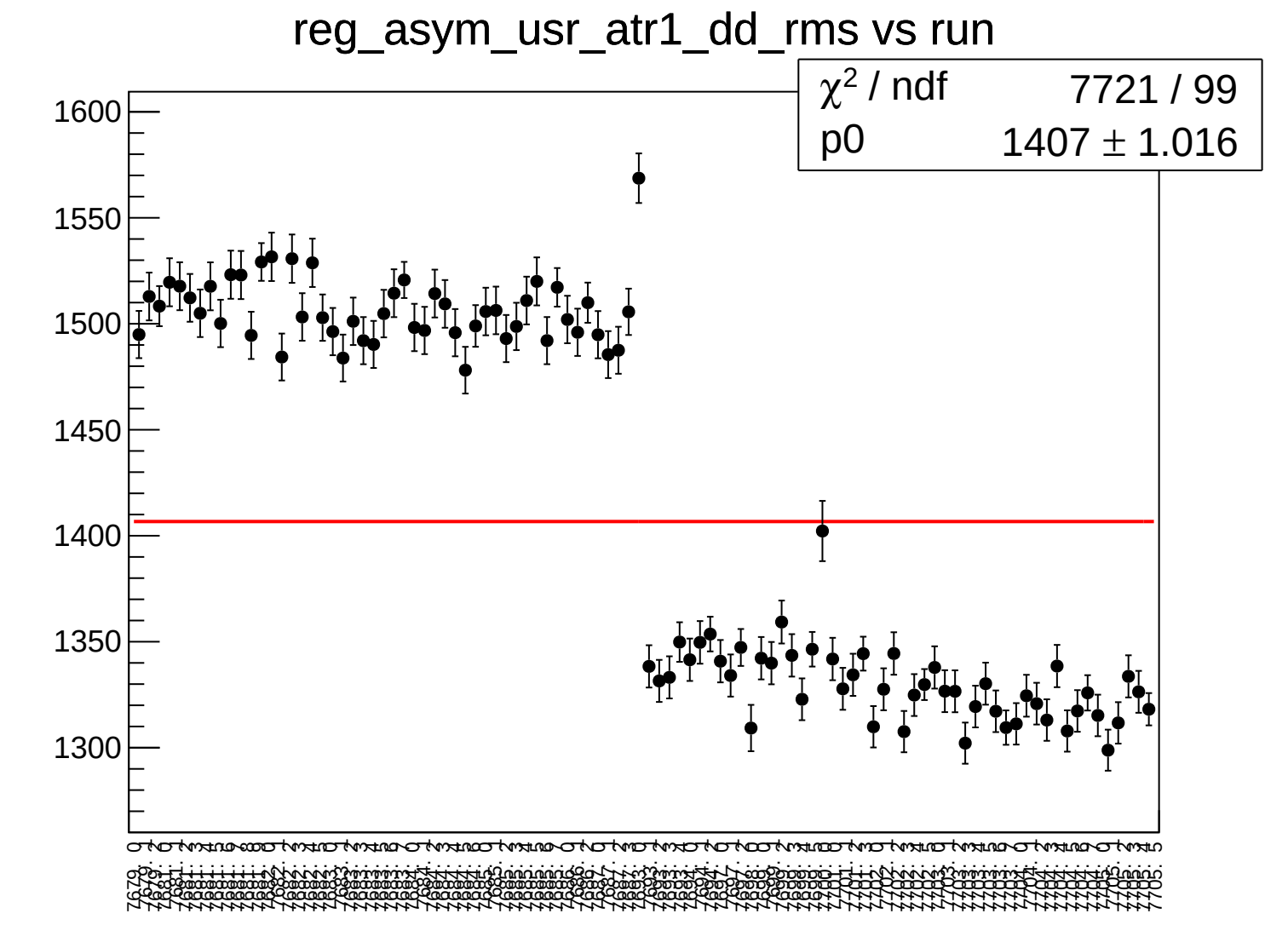

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.851e+05 / 99
p0 80.18 ± 0.06461
400
350
300
250
200
150
100
50

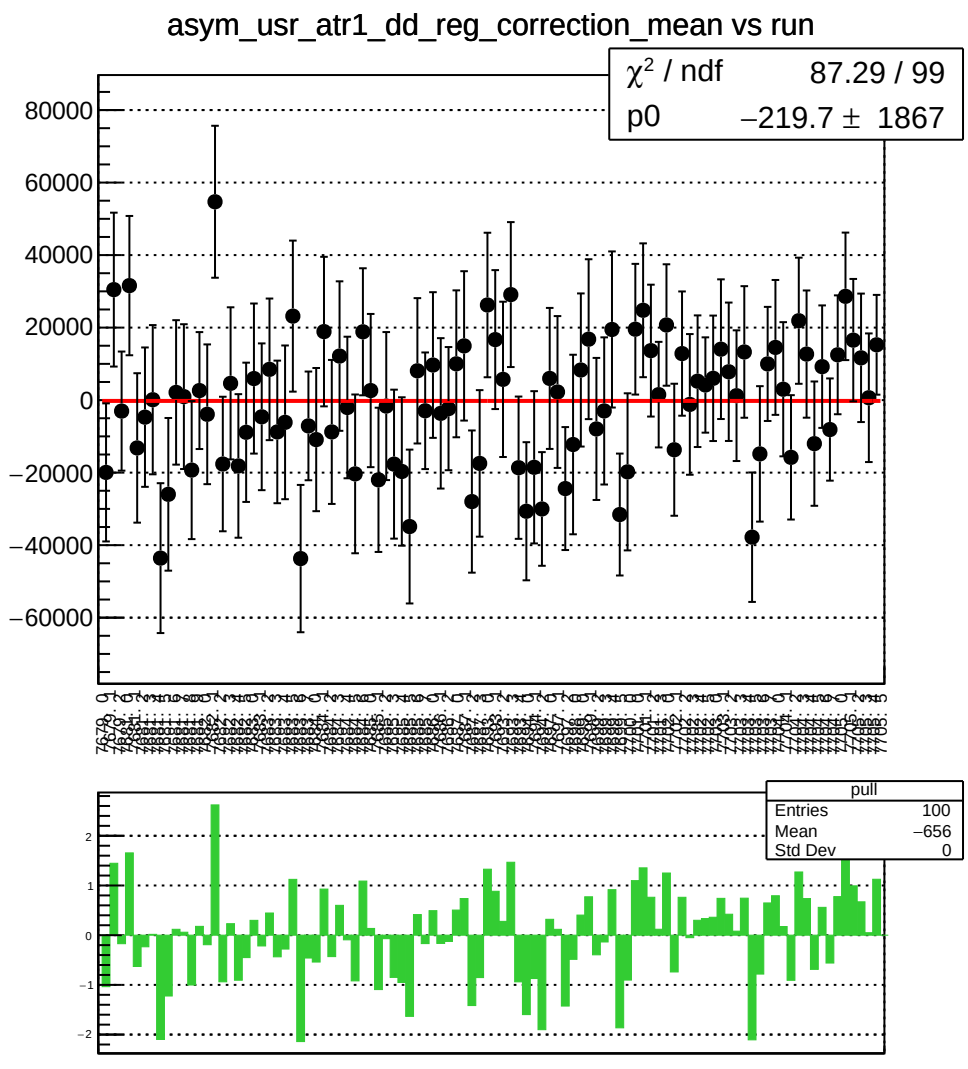

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 113 / 99
p0 −7.596e−14 ± 1.056e−13
pull
Entries 100
Mean 87.21
Std Dev 0

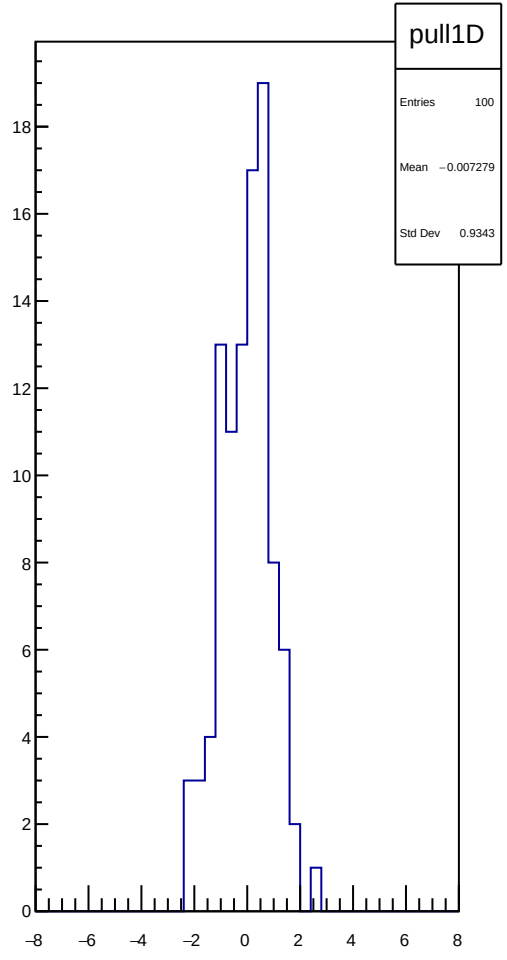

pull1D
Entries 100
Mean −0.07389
Std Dev 1.06

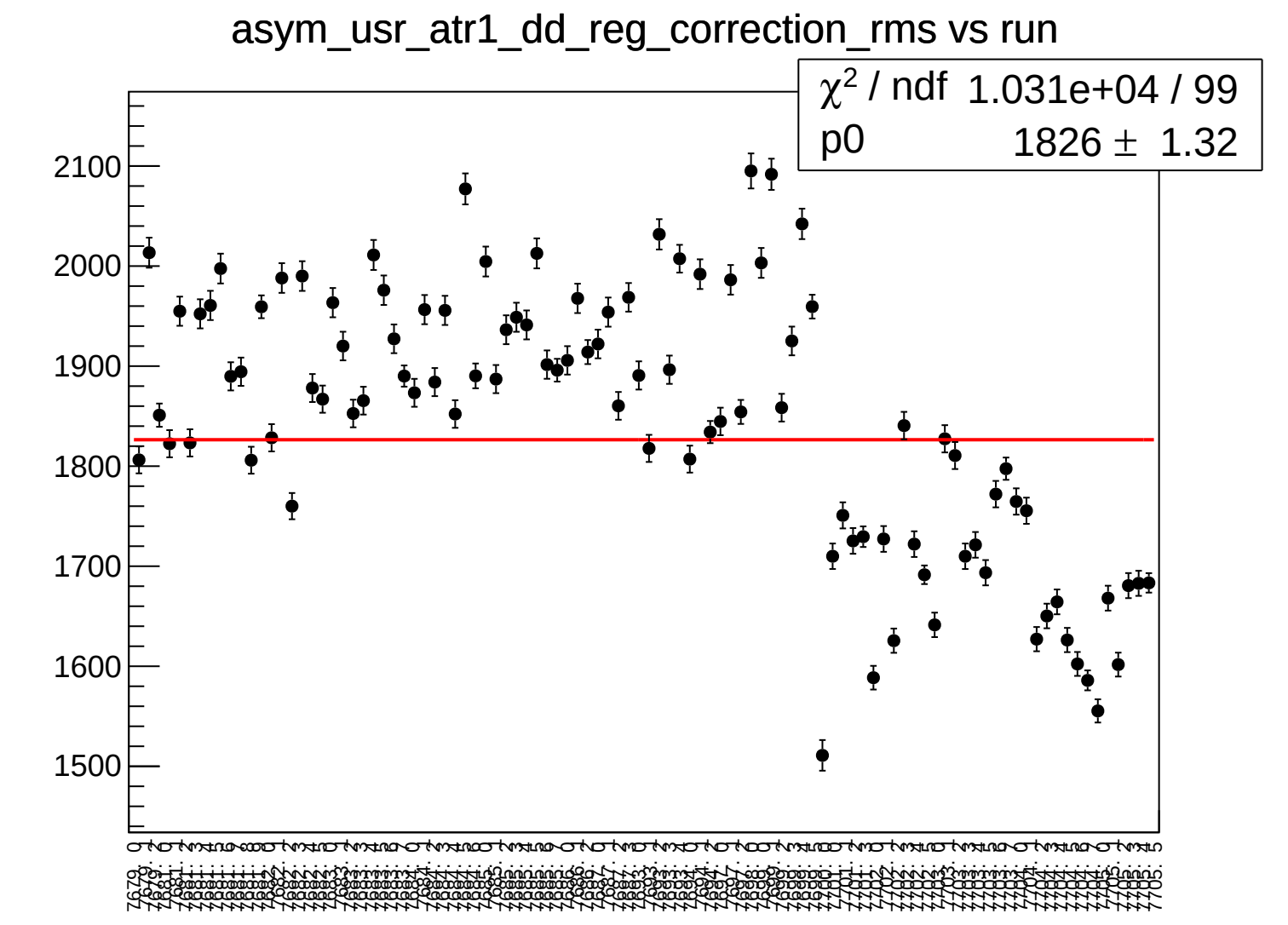

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.645e+05 / 99
p0 7.321e−11 ± 7.469e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

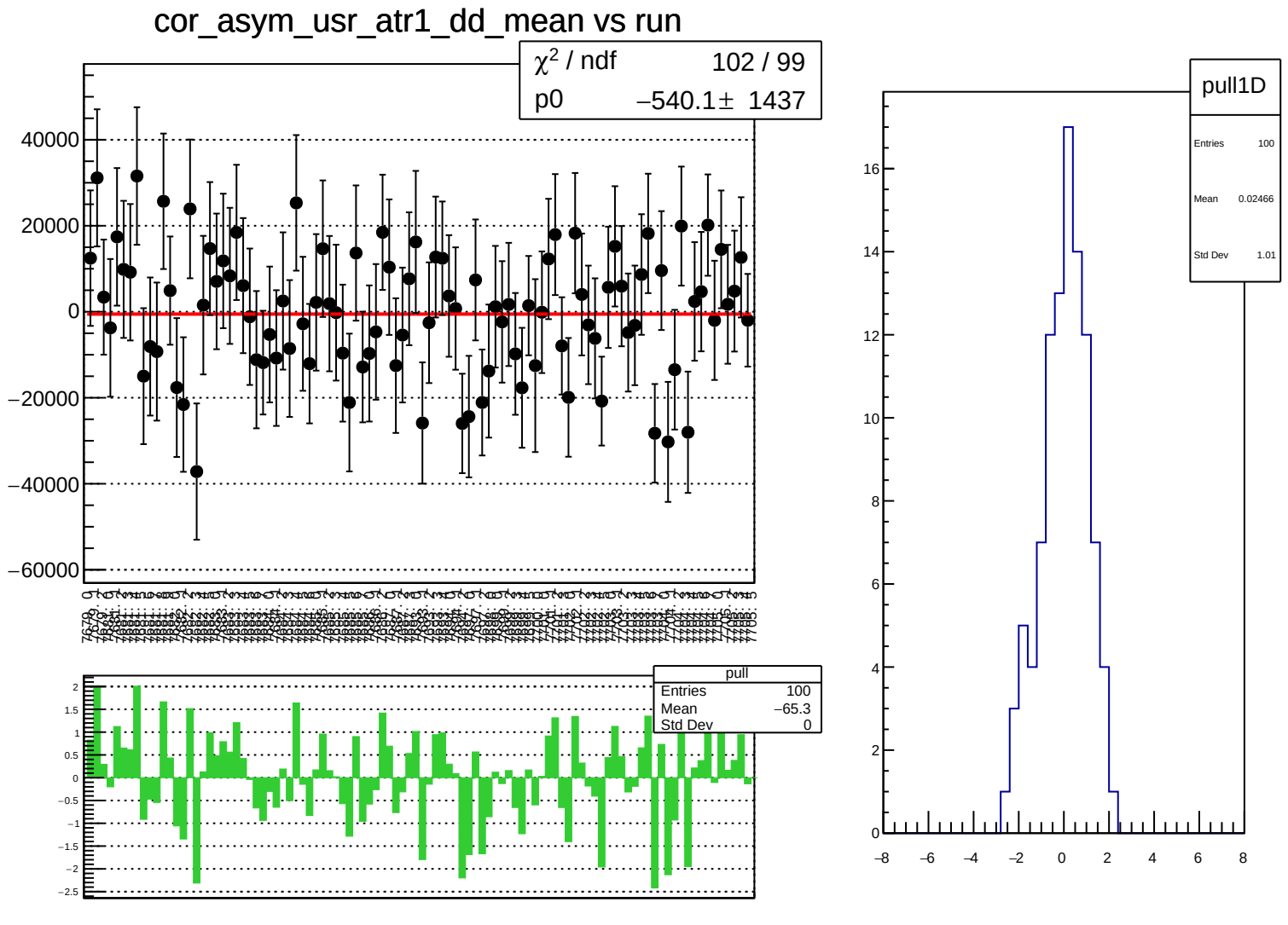

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 102 / 99
p0 −540 ± 1437
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −65.31
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 100
Mean 0.02467
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

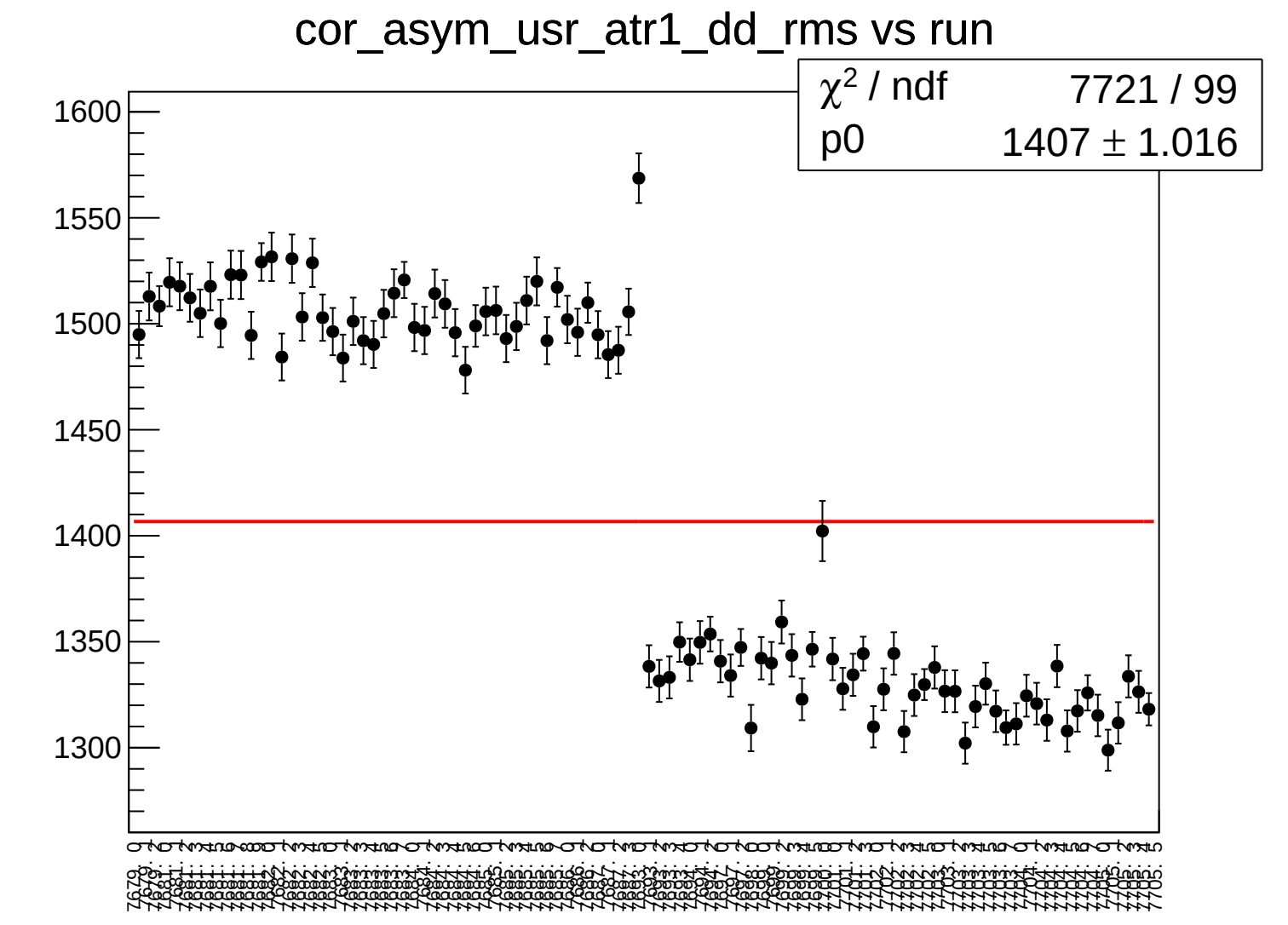

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 7721 / 99
p0 1407 ± 1.016
1600
1550
1500
1450
1400
1350
1300

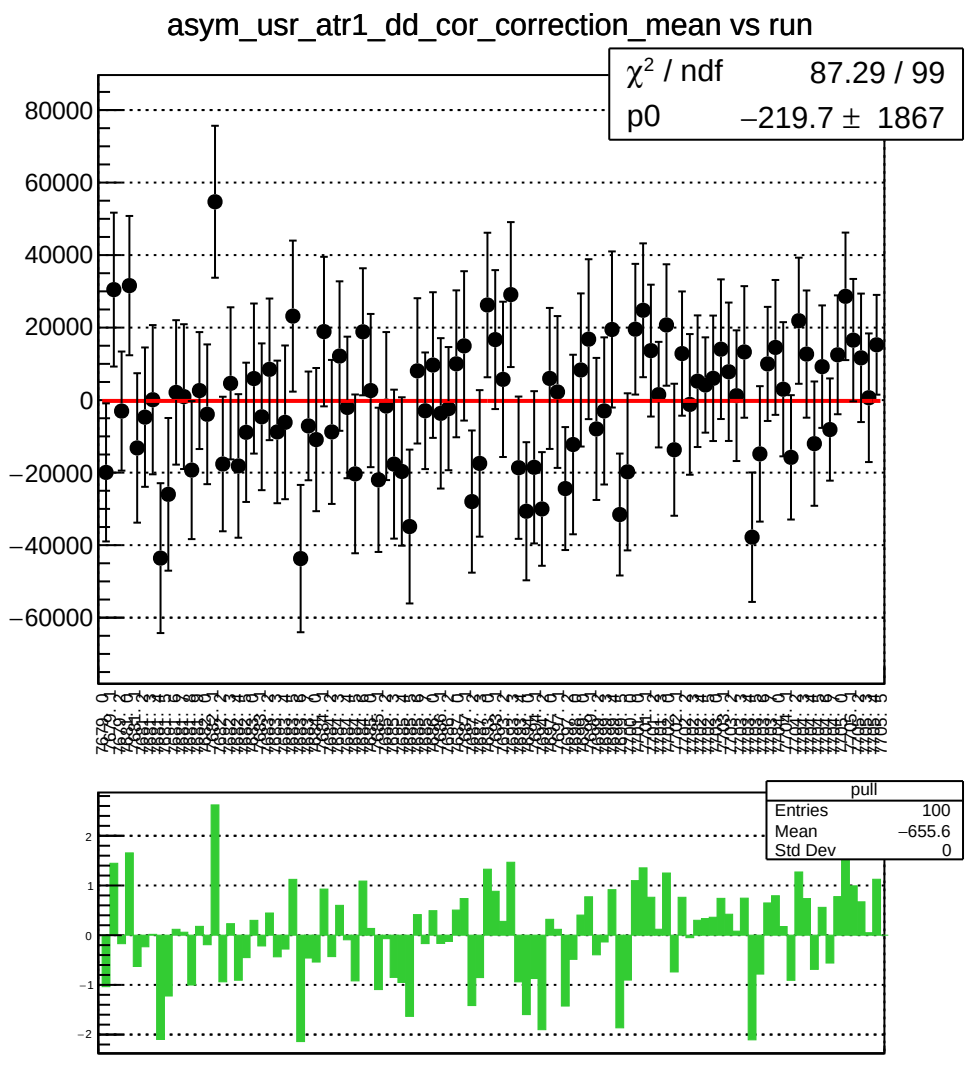

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 87.29 / 99
p0 −219.7 ± 1867
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −656
Std Dev 0
2
1
0
−1
−2

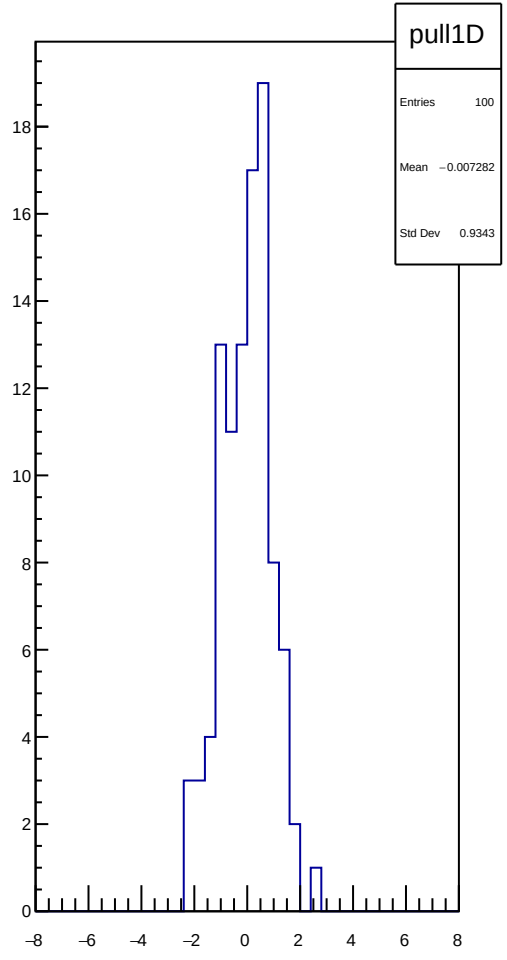

pull1D
Entries 100
Mean −0.007279
Std Dev 0.9343
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

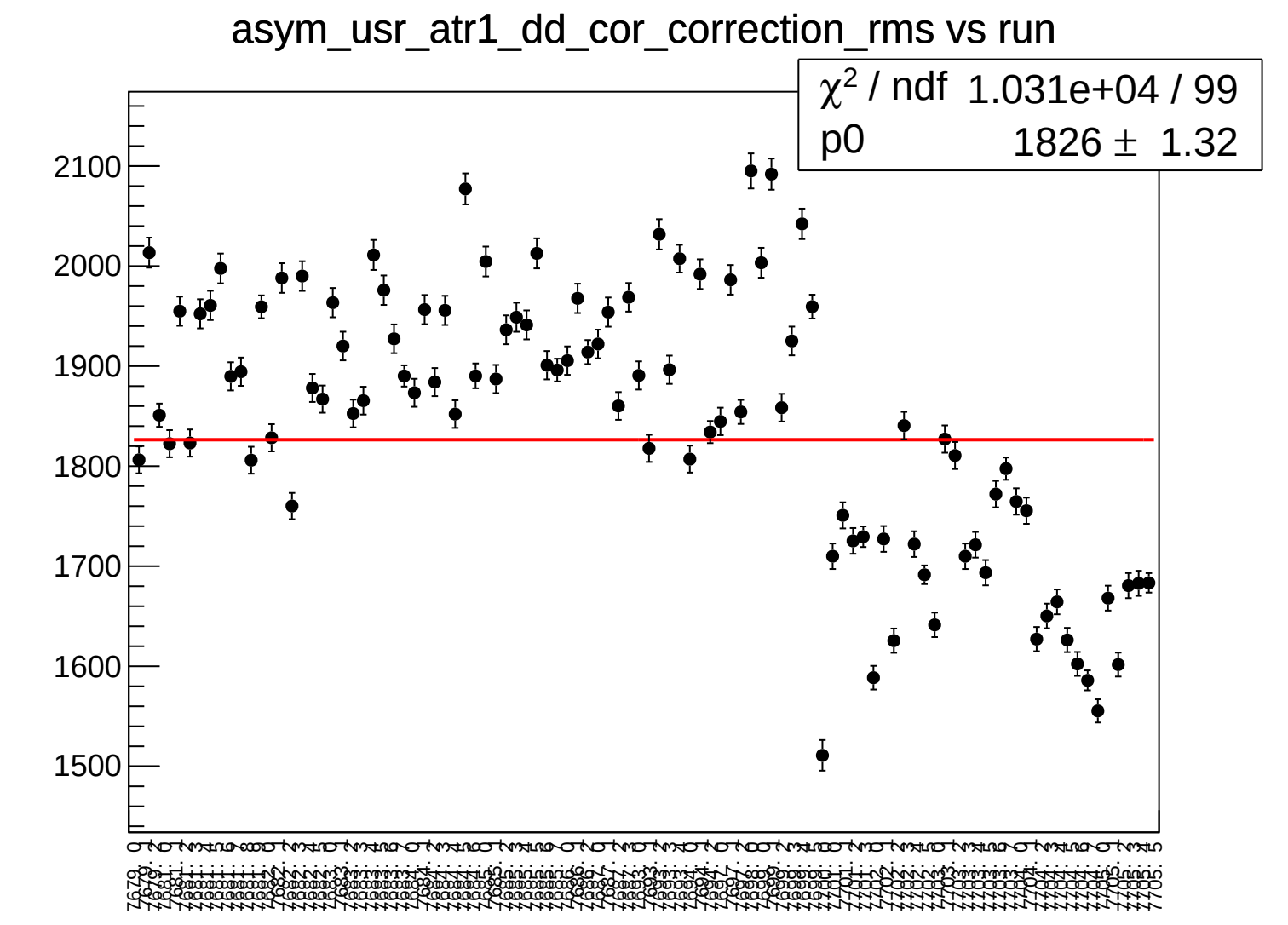

asym_usr_atr1_dd_reg_correction_rms vs run
χ^2 / ndf 1.031e+04 / 99
p0 1826 ± 1.32
2100
2000
1900
1800
1700
1600
1500

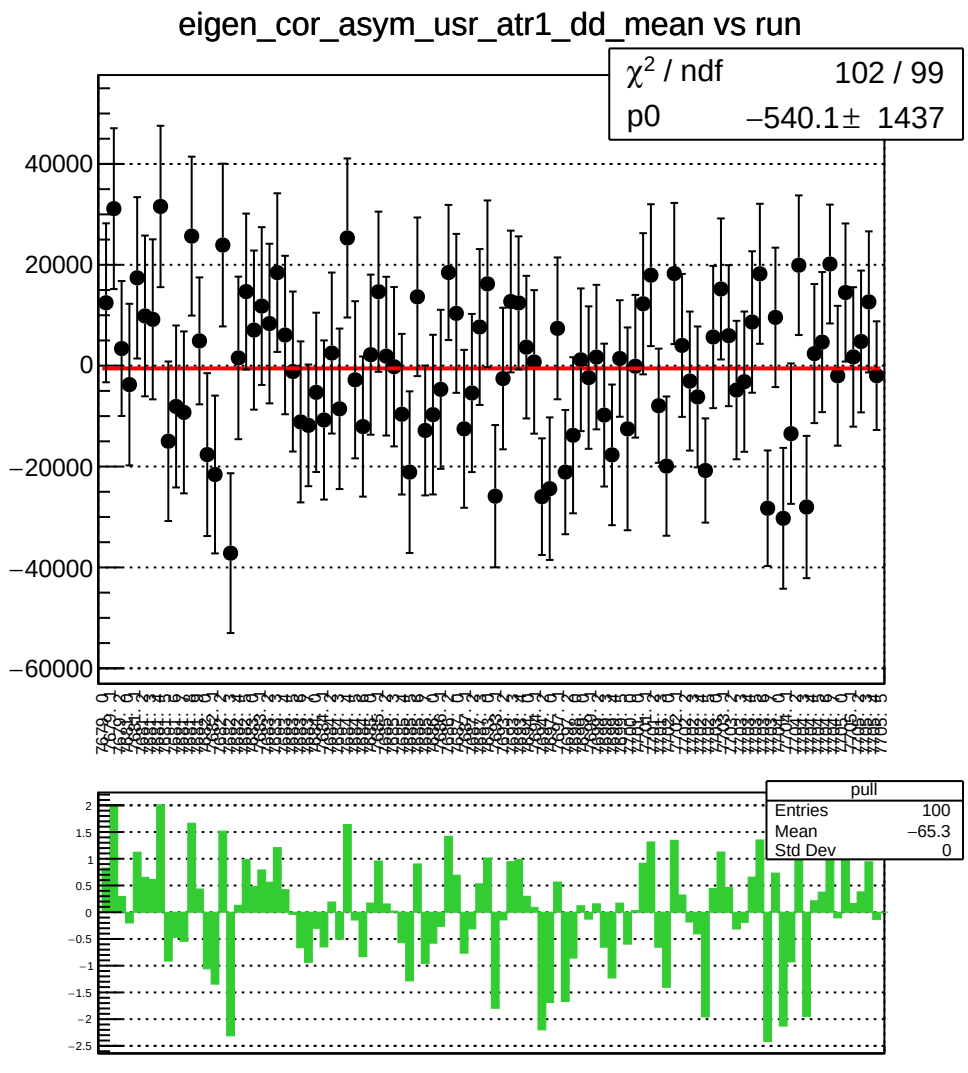

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 102 / 99
p0 −540.1± 1437
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −65.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 100
Mean 0.02466
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

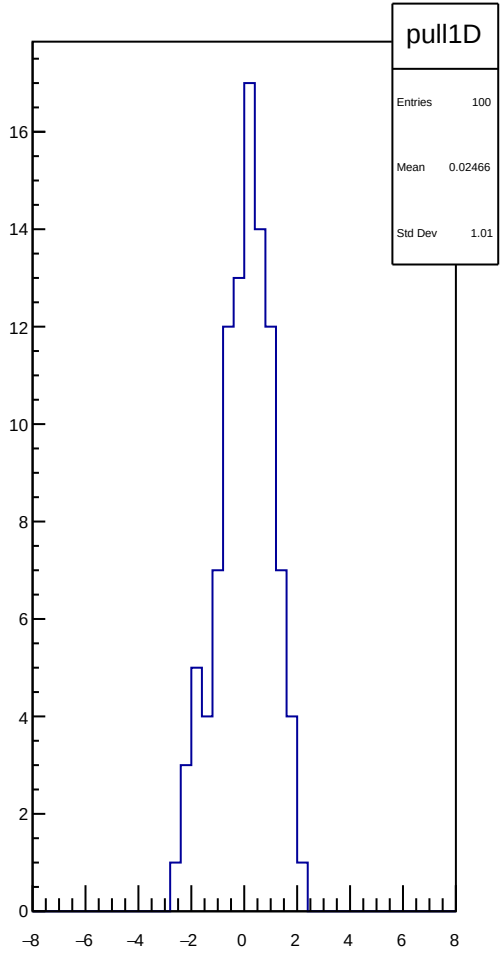

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 7721 / 99
p0 1407 ± 1.016
1600
1550
1500
1450
1400
1350
1300

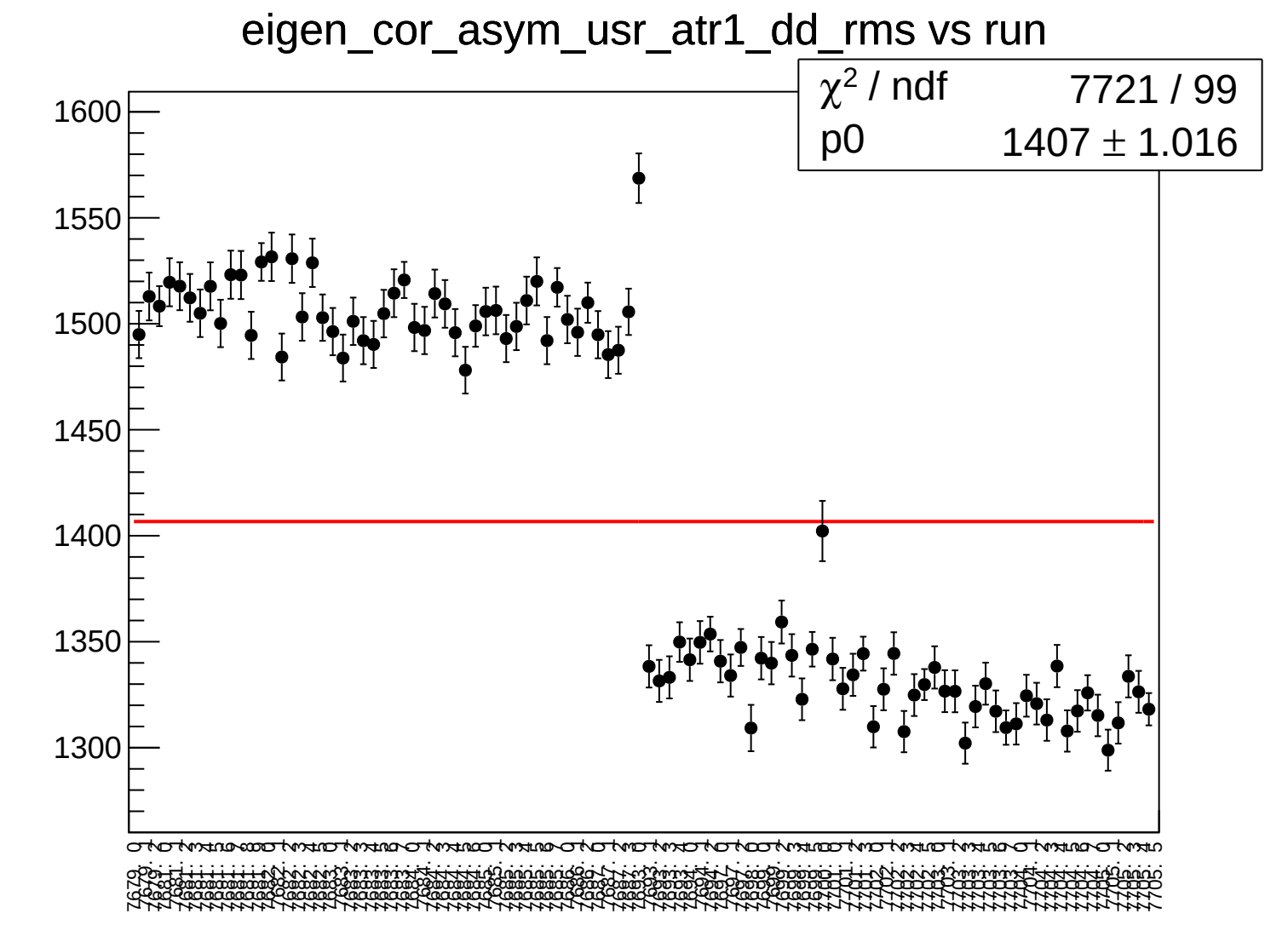

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 87.29 / 99
p0 −219.7 ± 1867
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −655.6
Std Dev 0
2
1
0
−1
−2

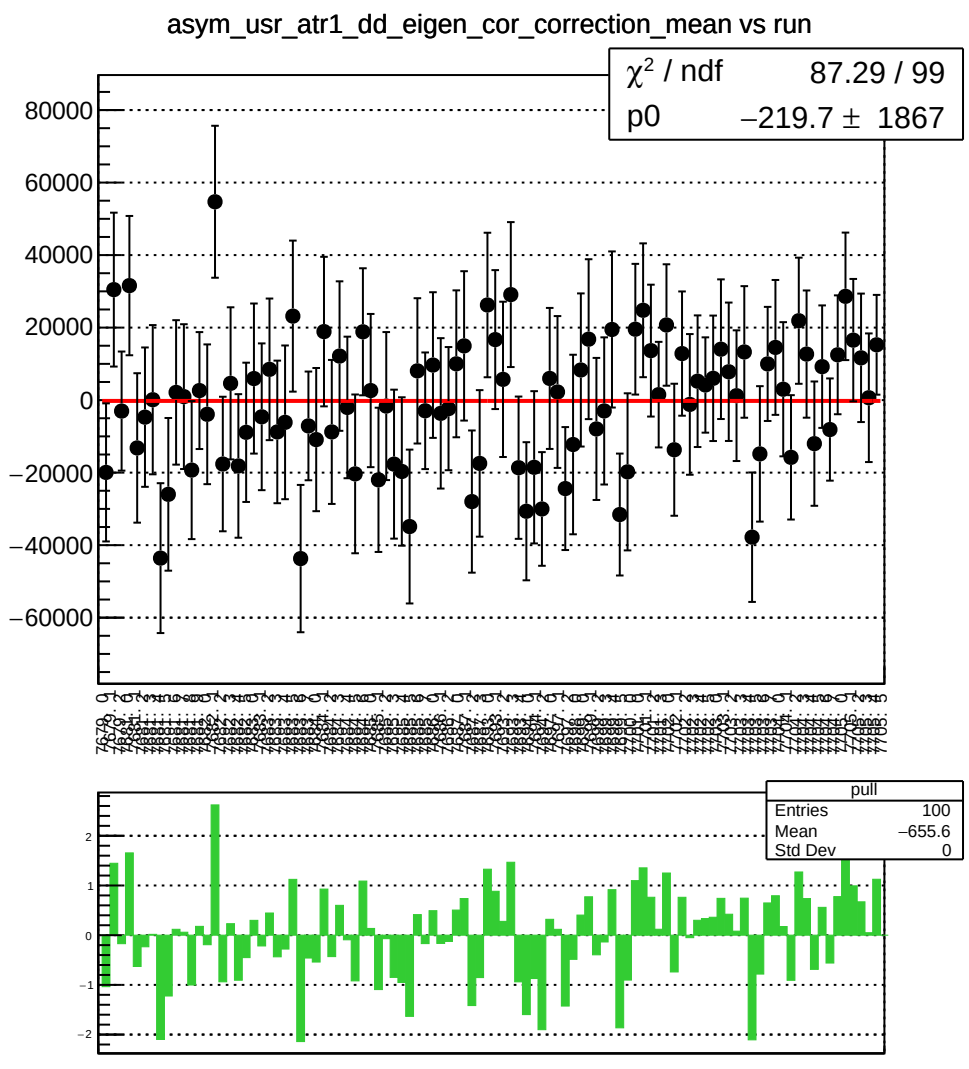

pull1D
Entries 100
Mean −0.007282
Std Dev 0.9343
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

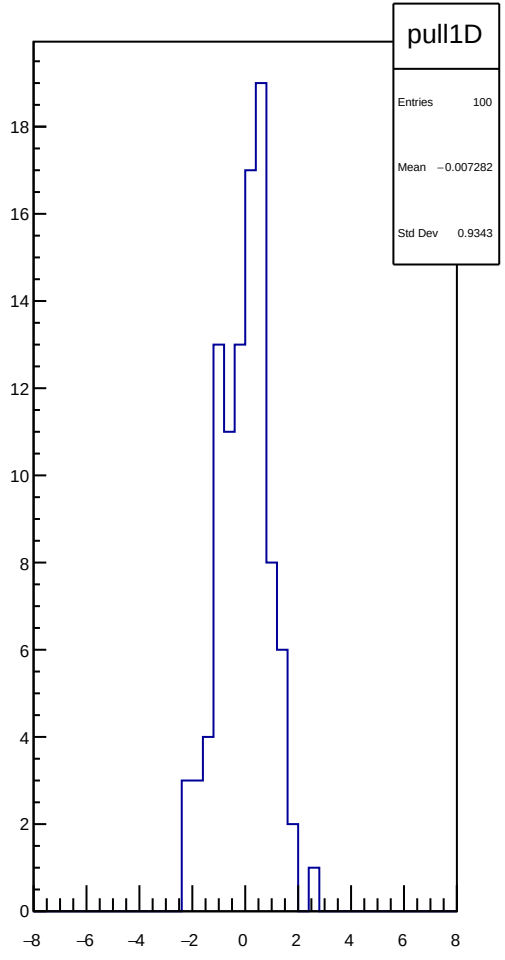

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 1.031e+04 / 99
p0 1826 ± 1.32
2100
2000
1900
1800
1700
1600
1500

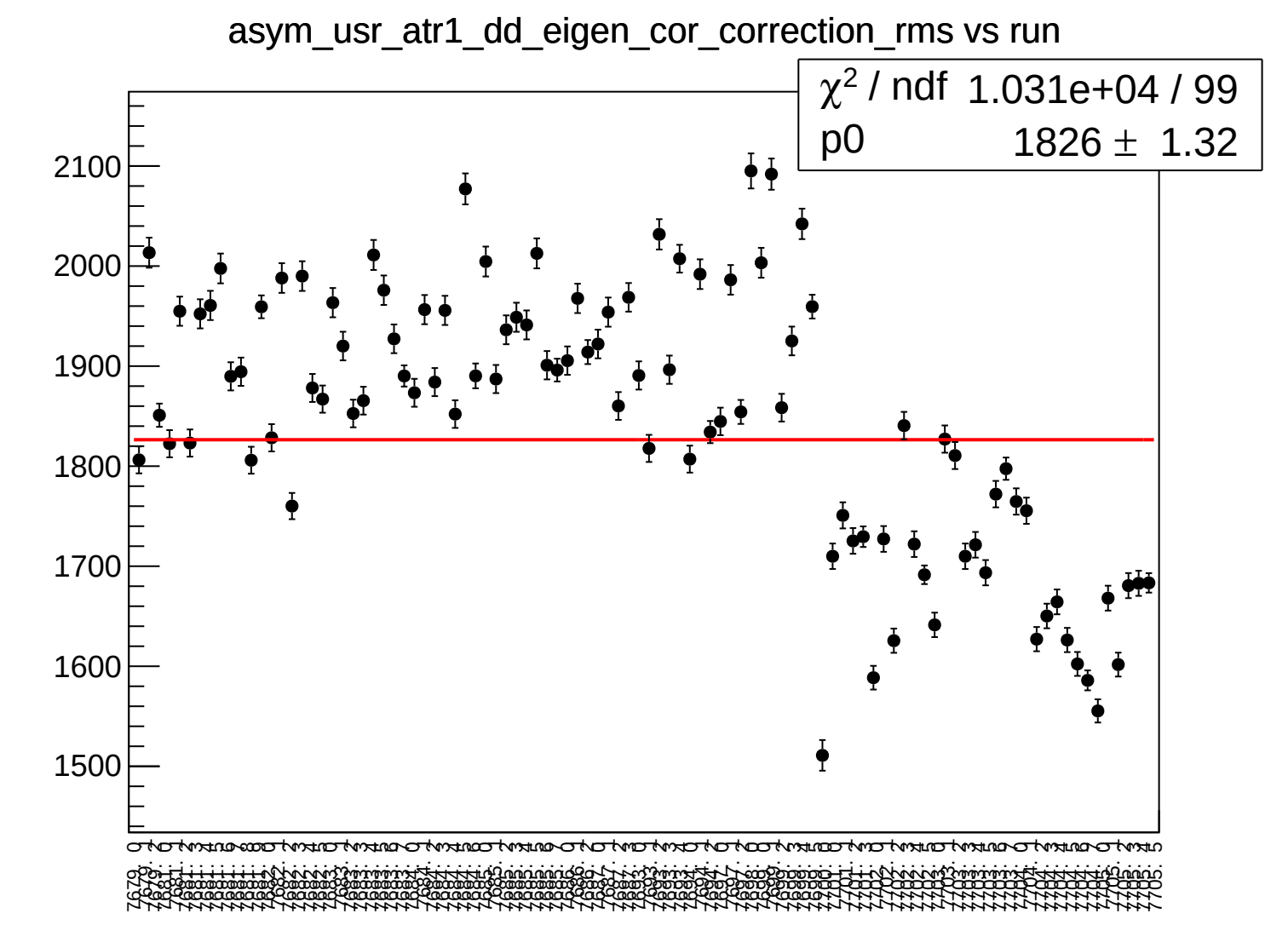

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 102 / 99
p0 −540.1± 1437
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −65.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

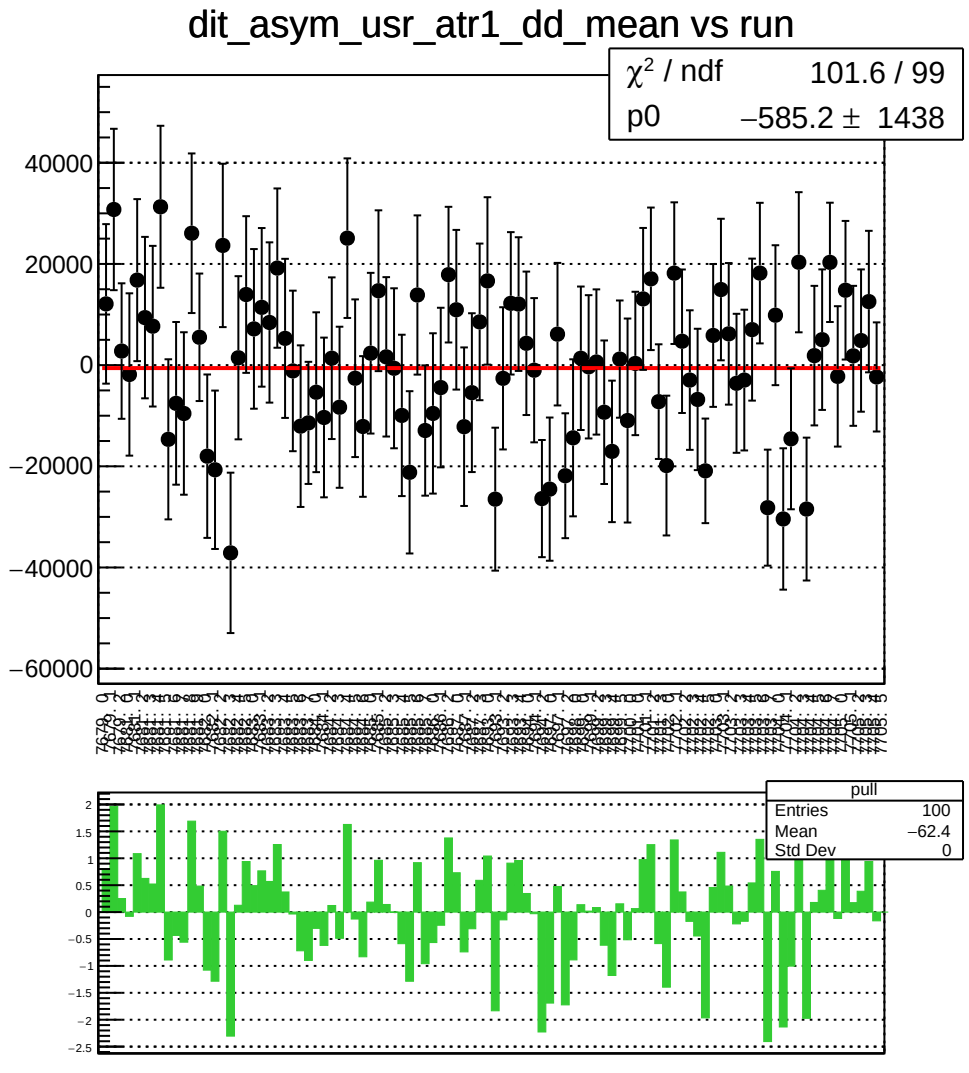

pull1D
Entries 100
Mean 0.02466
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

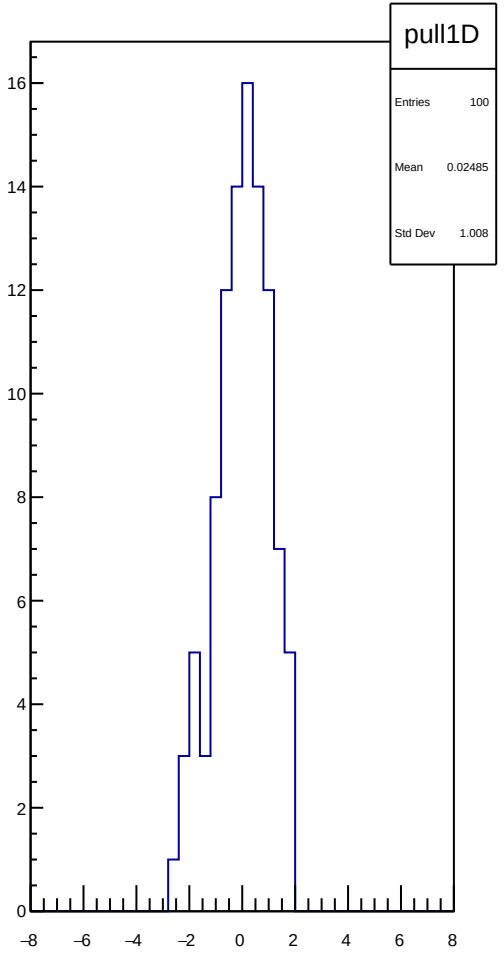

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 7721 / 99
p0 1407 ± 1.016
1600
1550
1500
1450
1400
1350
1300

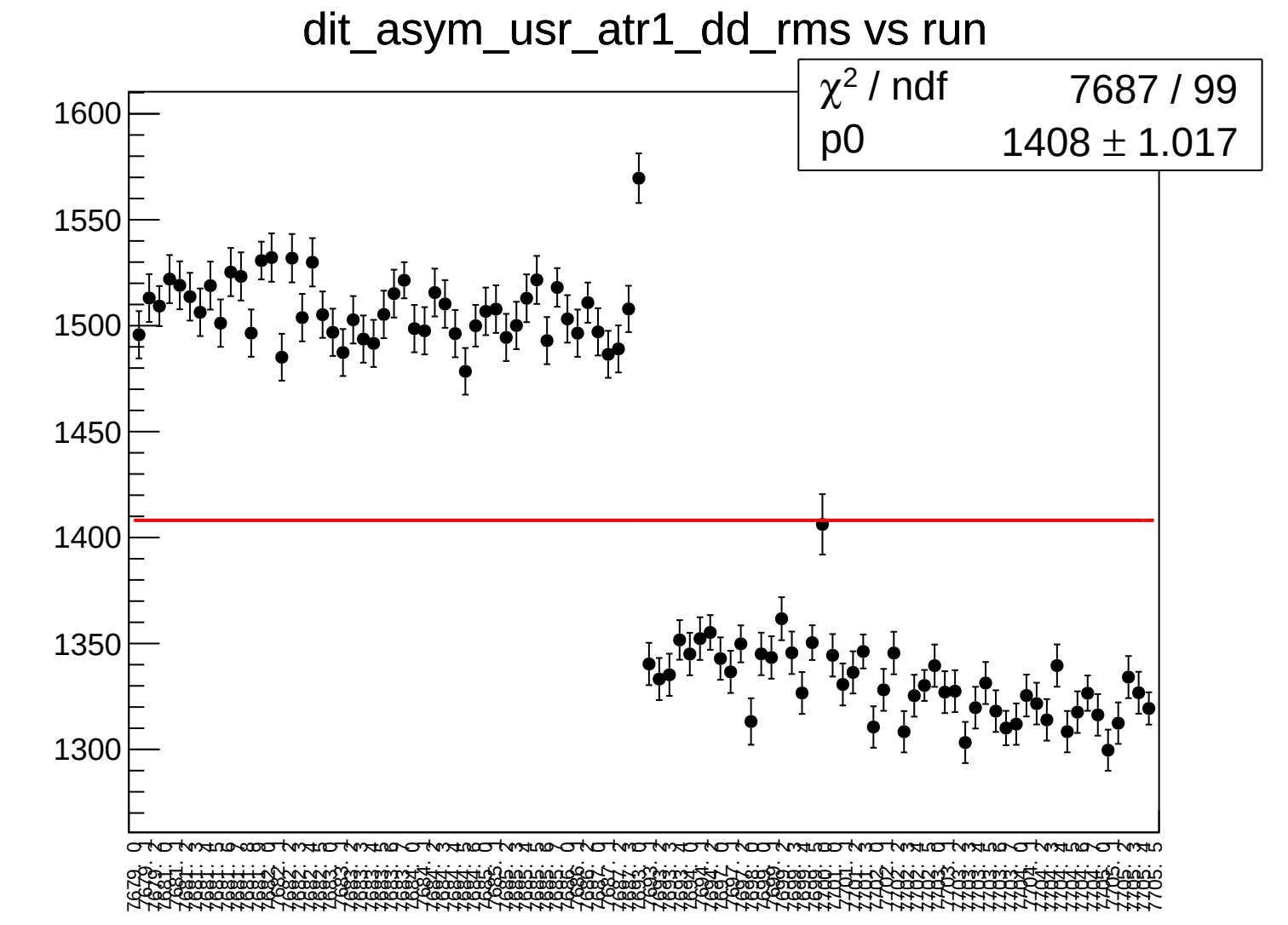

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 87.29 / 99
p0 −219.7 ± 1867
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −655.6
Std Dev 0
2
1
0
−1
−2

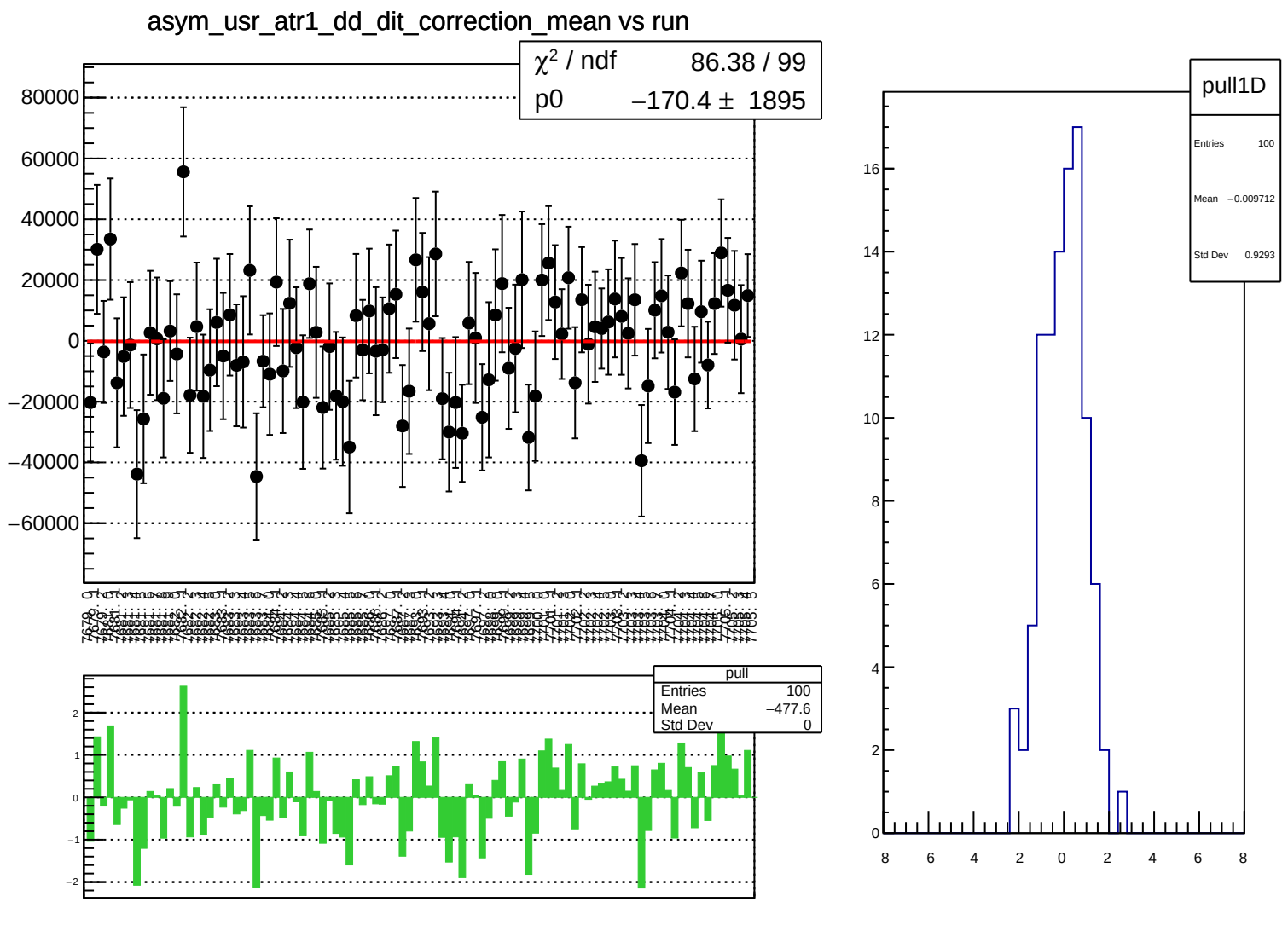

pull1D
Entries 100
Mean −0.007282
Std Dev 0.9343
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

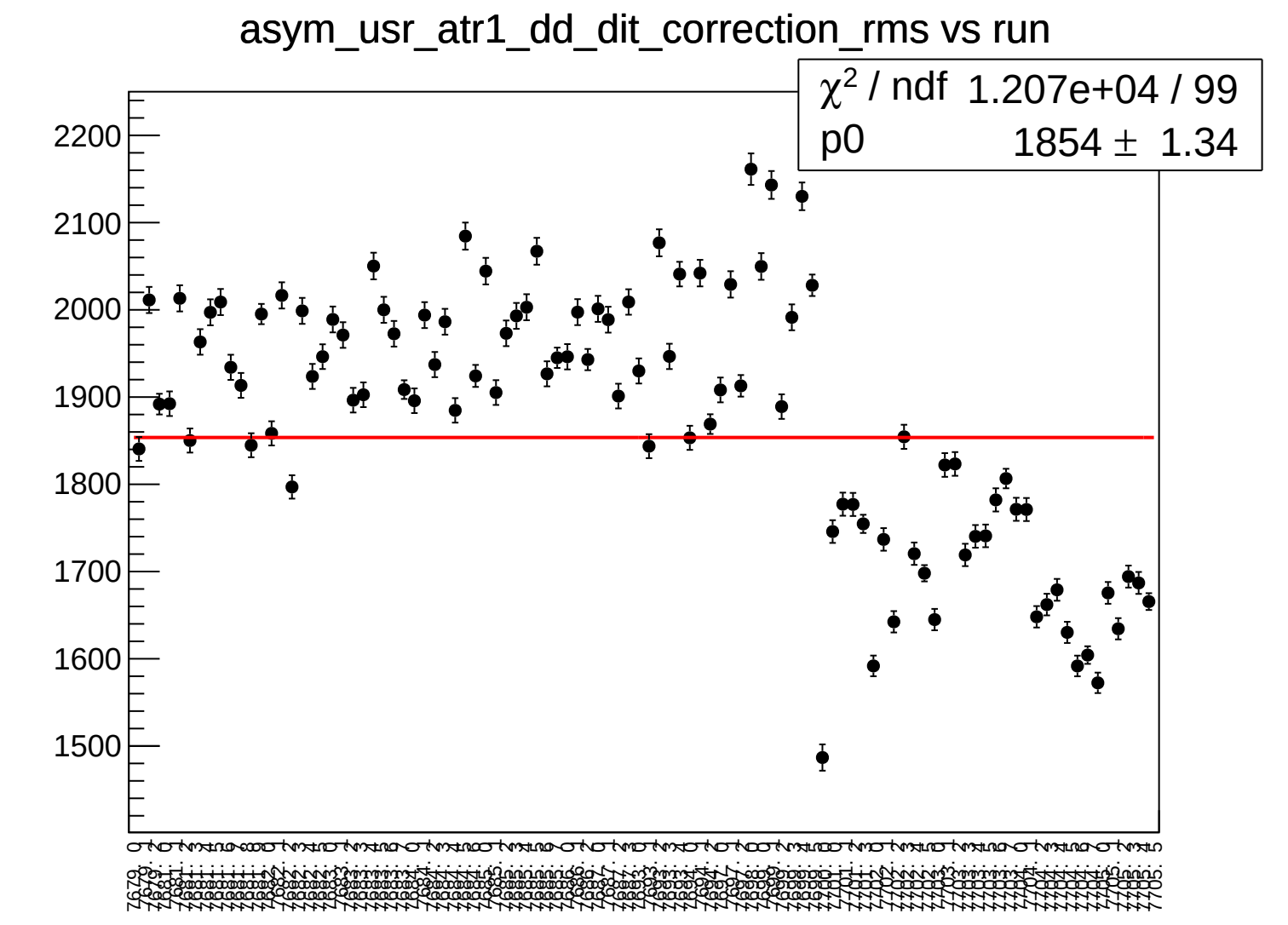

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.031e+04 / 99
p0 1826 ± 1.32
2100
2000
1900
1800
1700
1600
1500

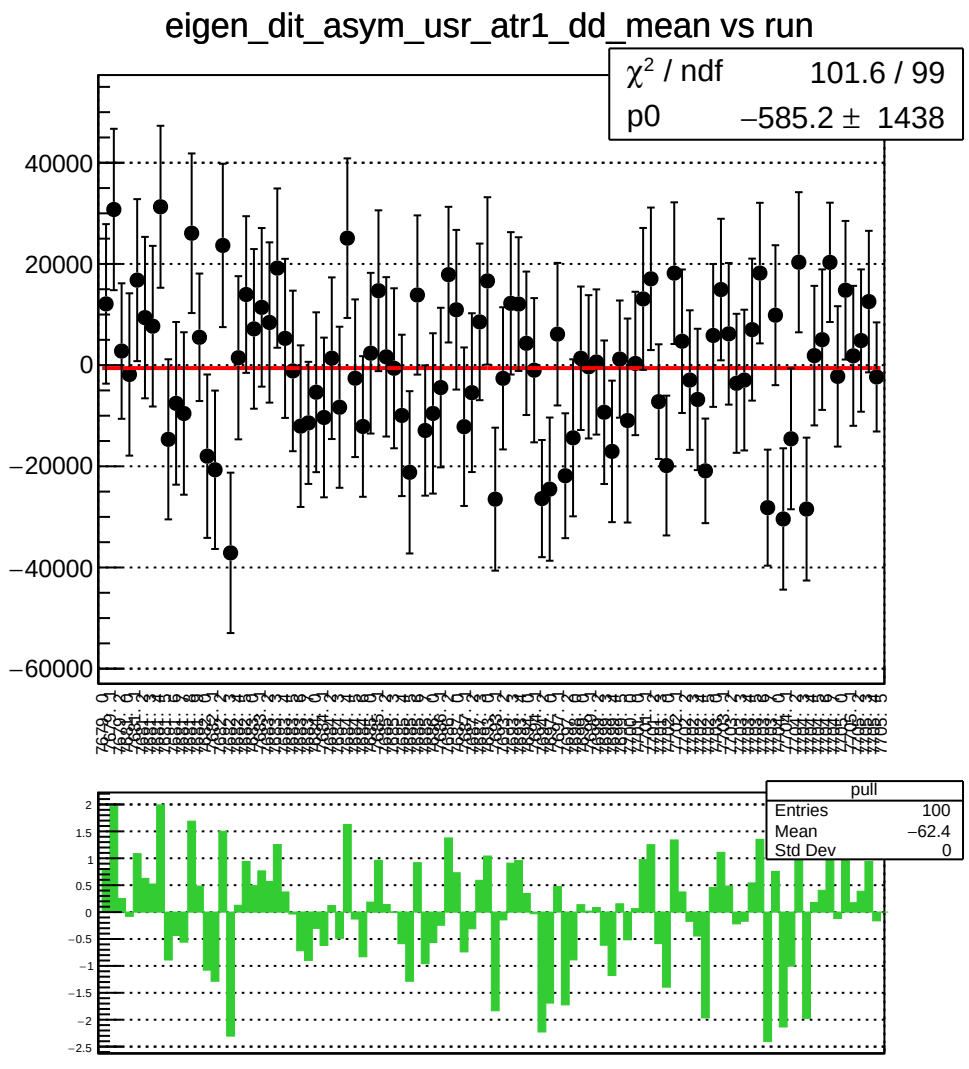

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 101.6 / 99
p0 −585.2 ± 1438
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −62.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

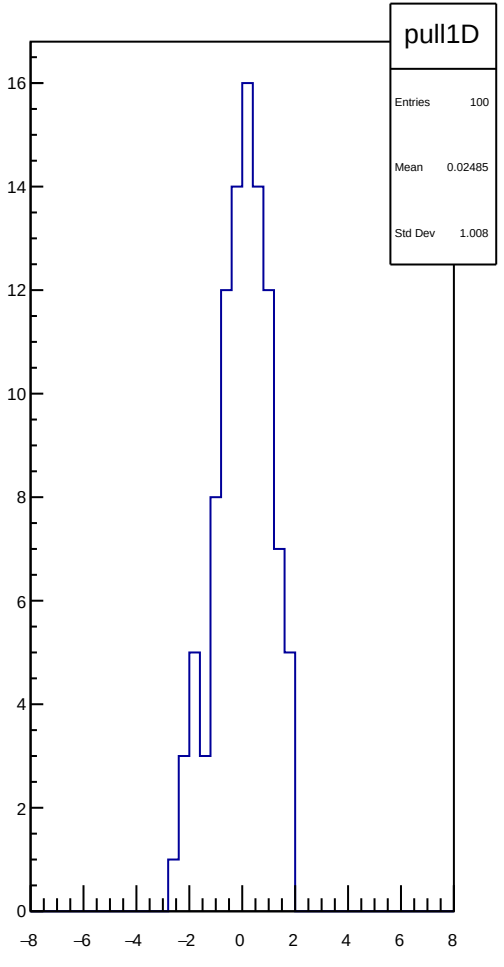

pull1D
Entries 100
Mean 0.02485
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

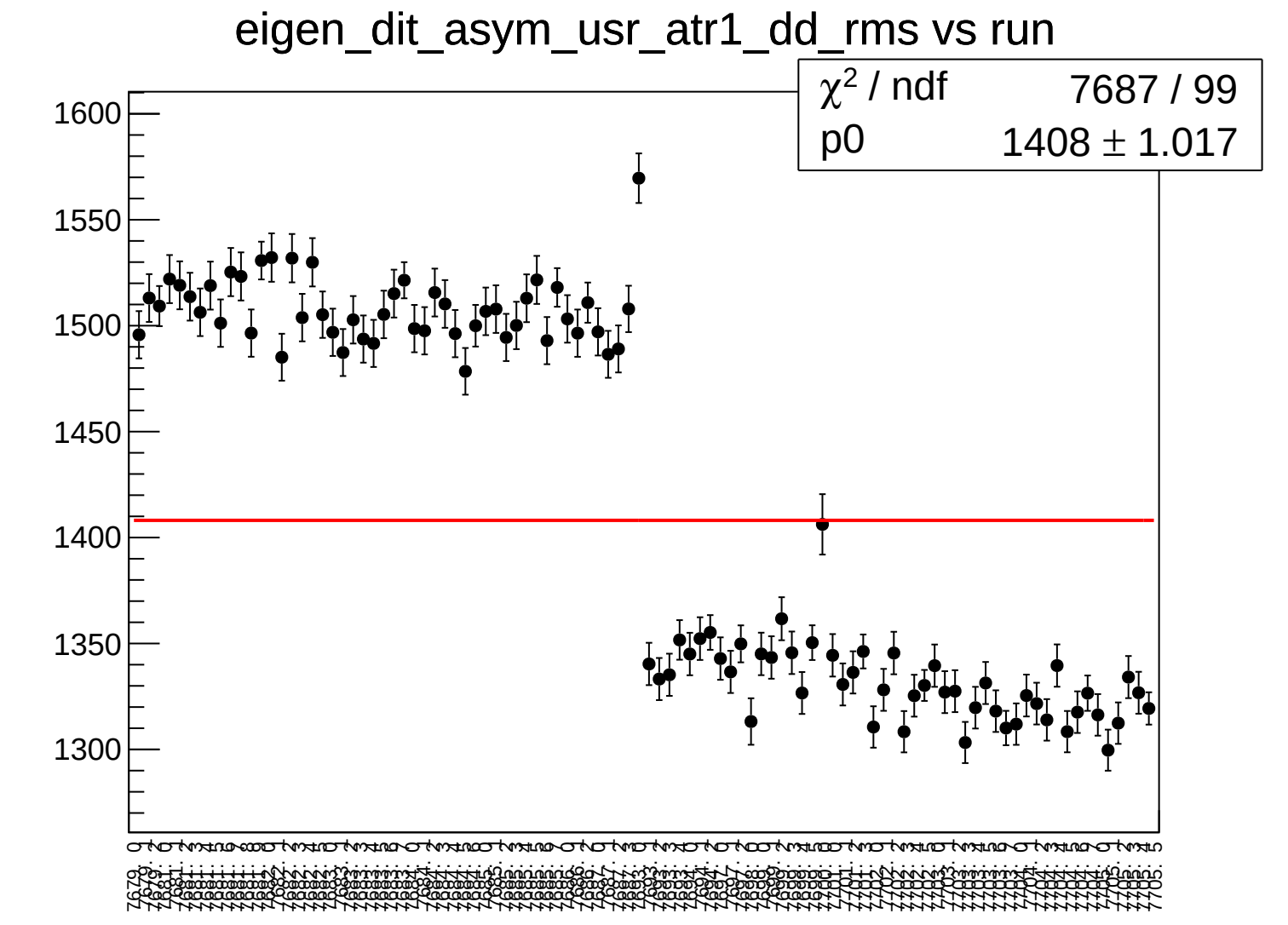

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 7687 / 99
p0 1408 ± 1.017
1600
1550
1500
1450
1400
1350
1300

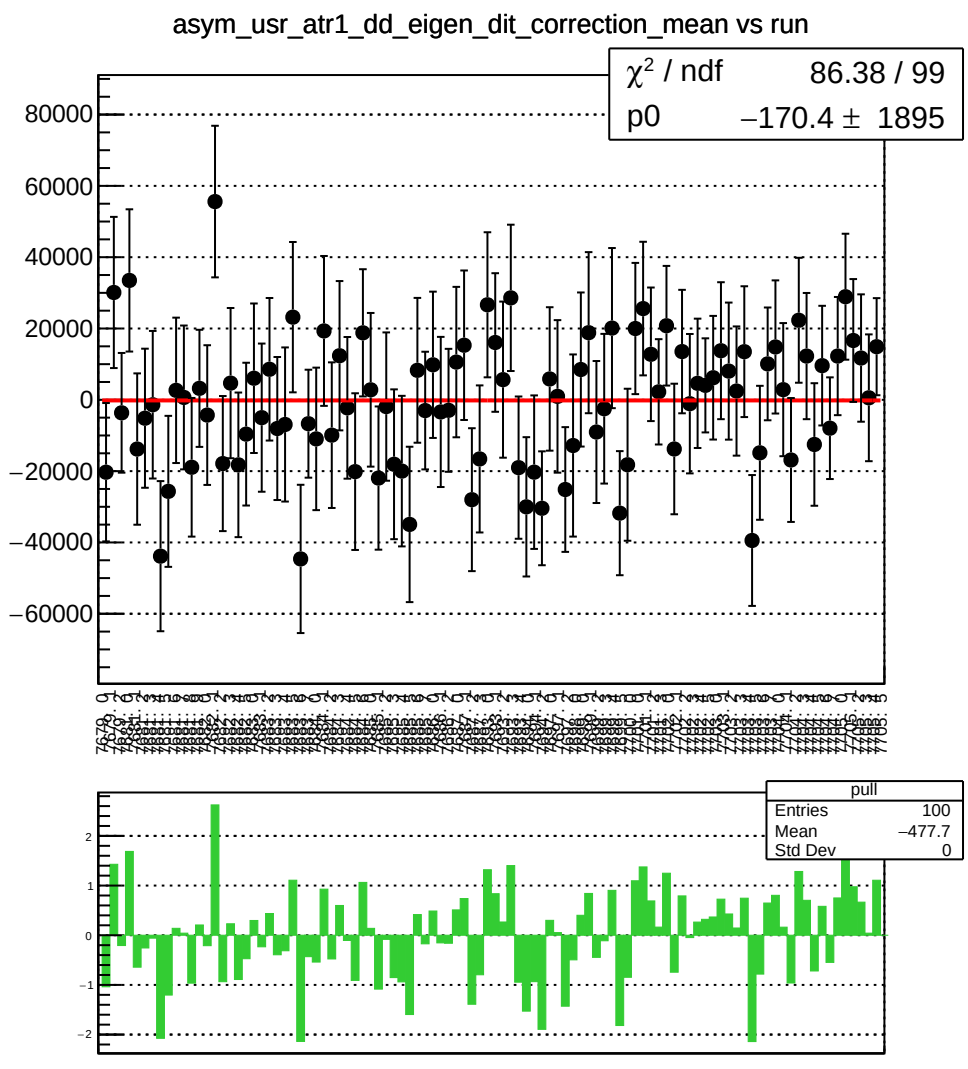

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 86.38 / 99
p0 −170.4 ± 1895
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −477.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.009712
Std Dev 0.9293
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

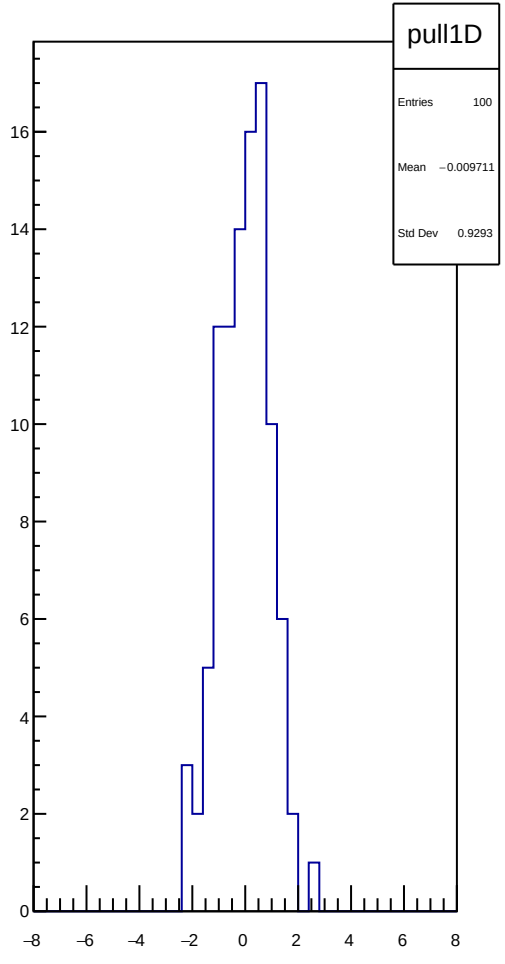

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 1.207e+04 / 99
p0 1854 ± 1.34
2200
2100
2000
1900
1800
1700
1600
1500

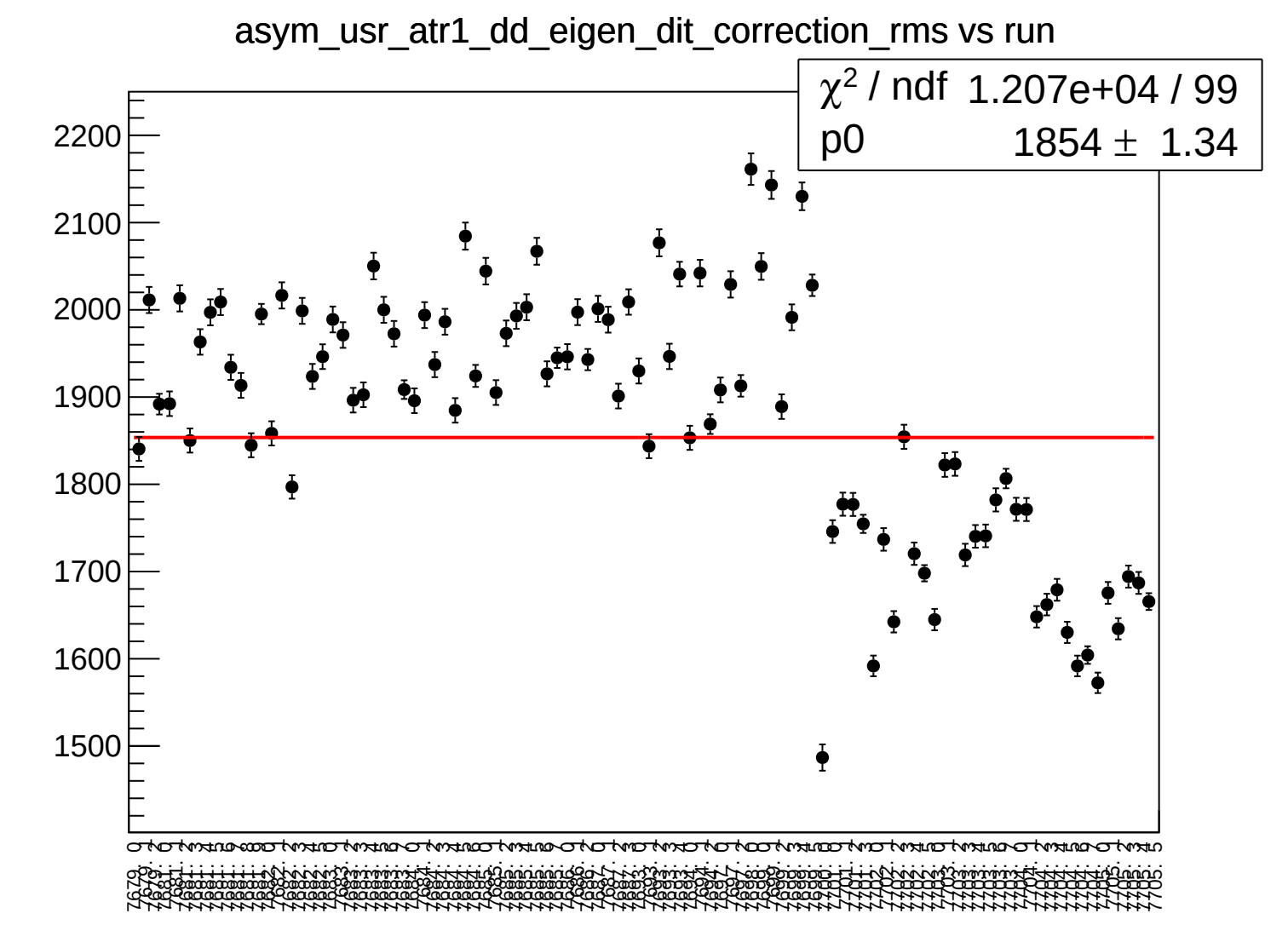

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 101.6 / 99
p0 −585.2 ± 1438
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −62.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

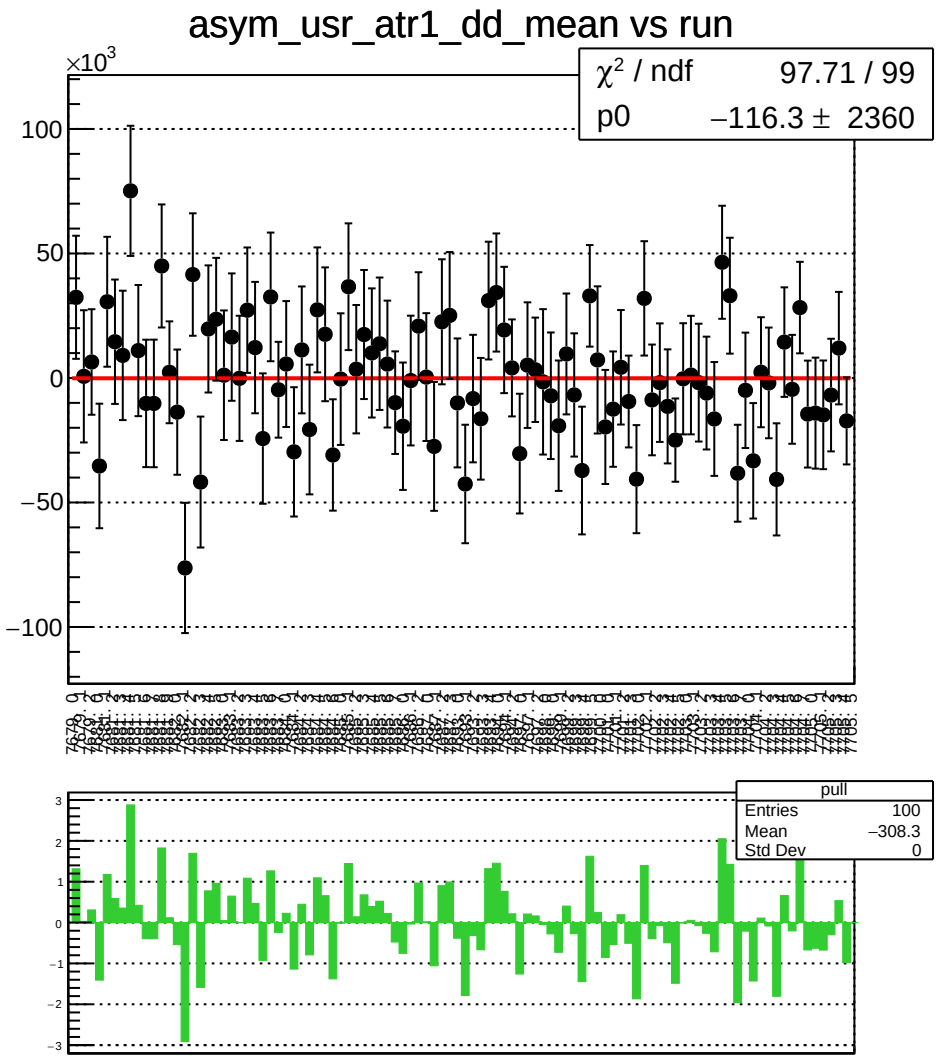

pull1D
Entries 100
Mean 0.02485
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

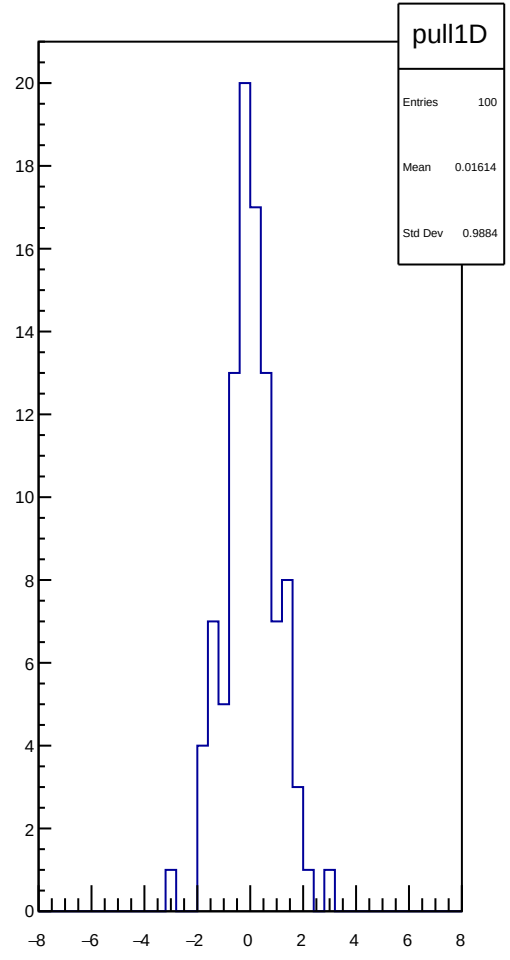

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 7687 / 99
p0 1408 ± 1.017
1600
1550
1500
1450
1400
1350
1300

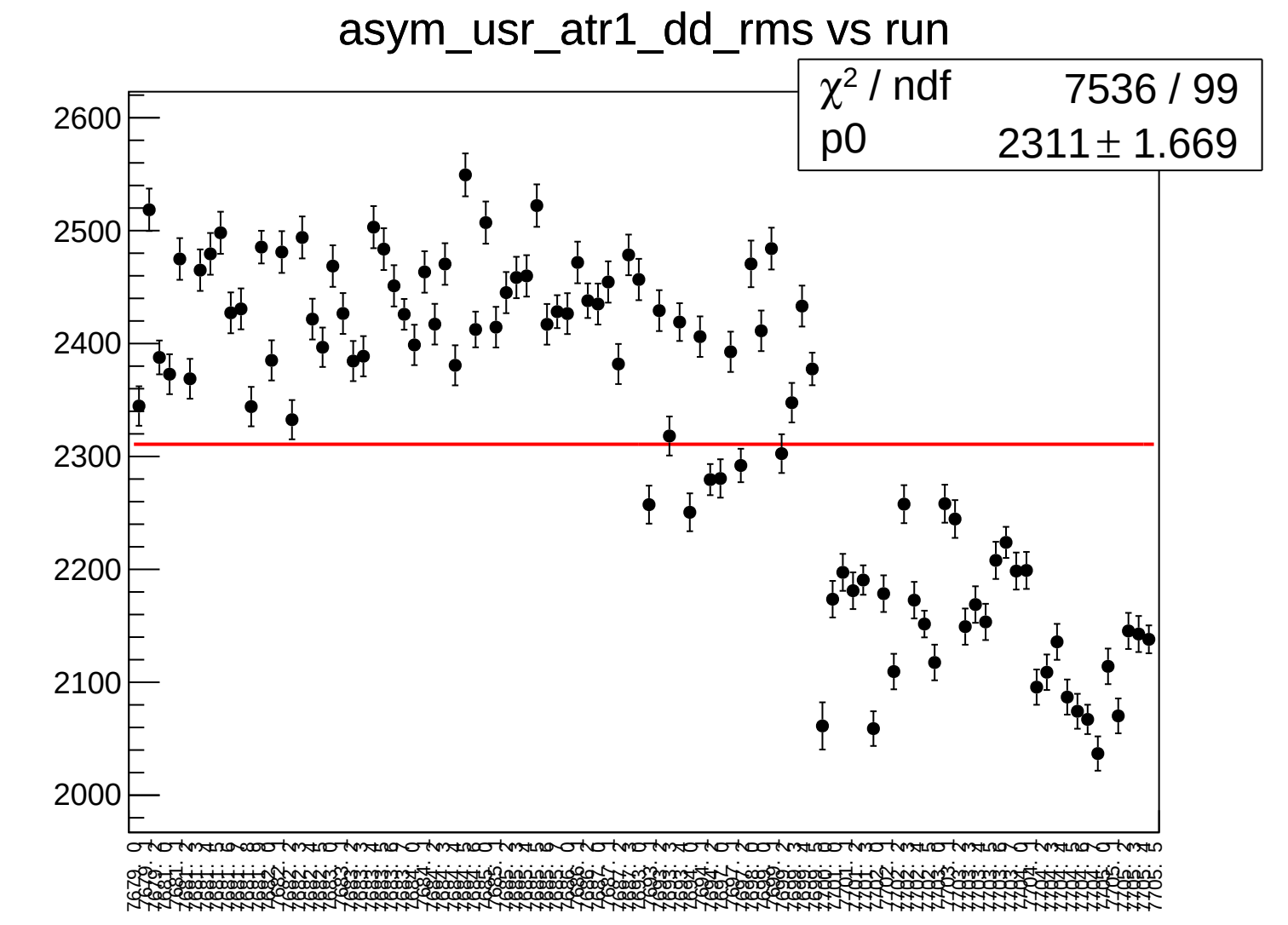

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 86.38 / 99
p0 −170.4 ± 1895
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −477.7
Std Dev 0
2
1
0
−1
−2

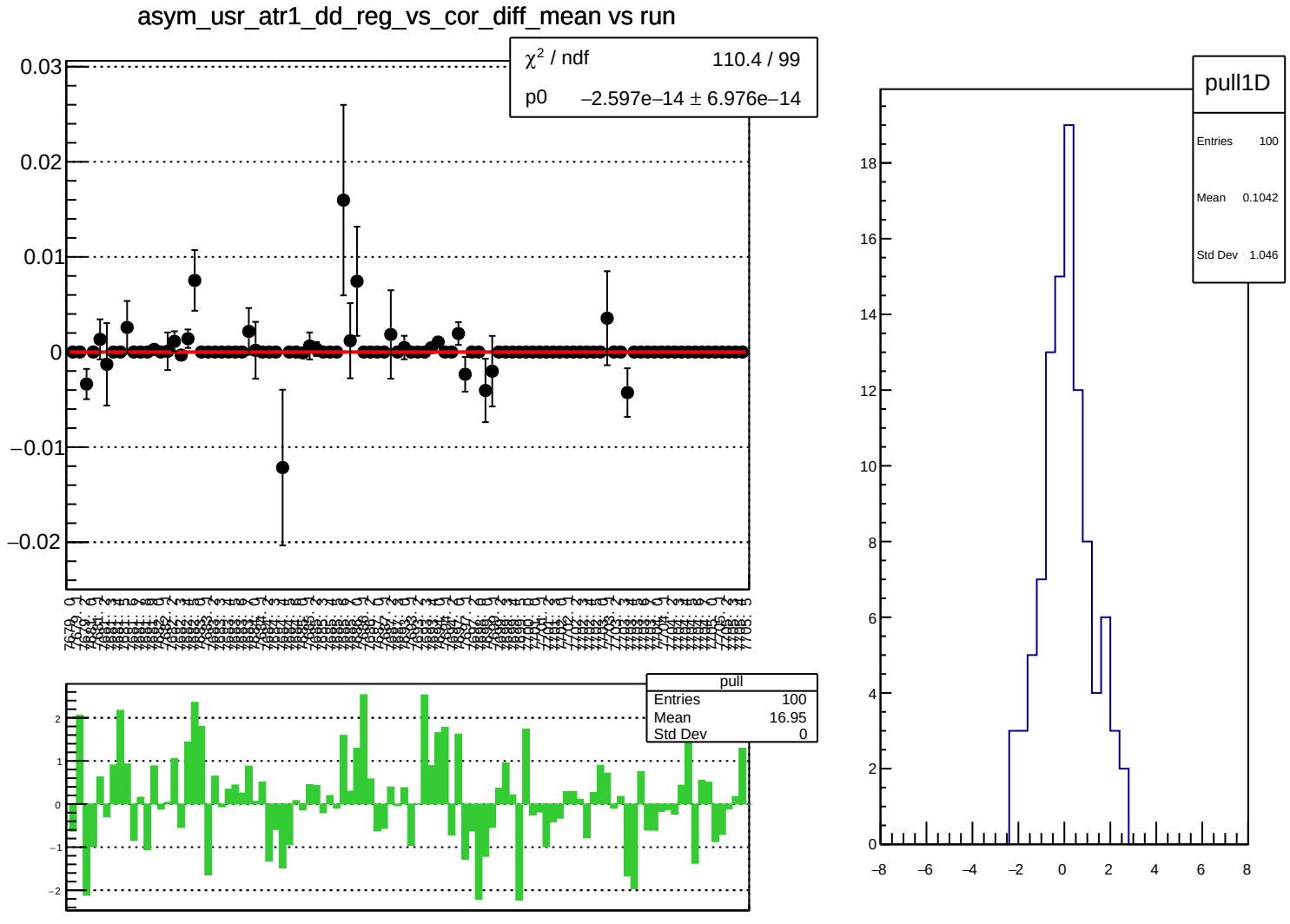

pull1D
Entries 100
Mean −0.009711
Std Dev 0.9293
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

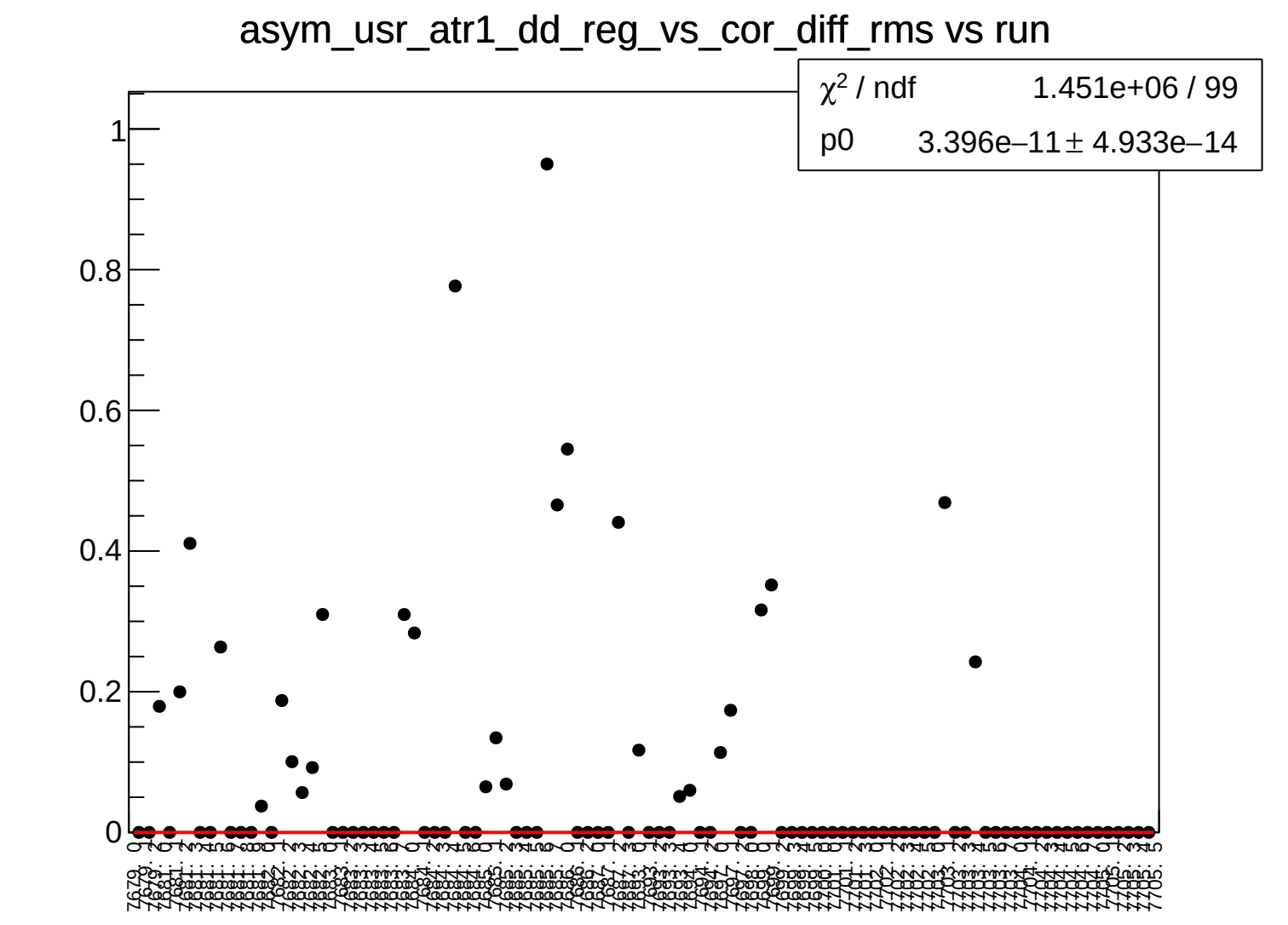

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.207e+04 / 99
p0 1854 ± 1.34
2200
2100
2000
1900
1800
1700
1600
1500

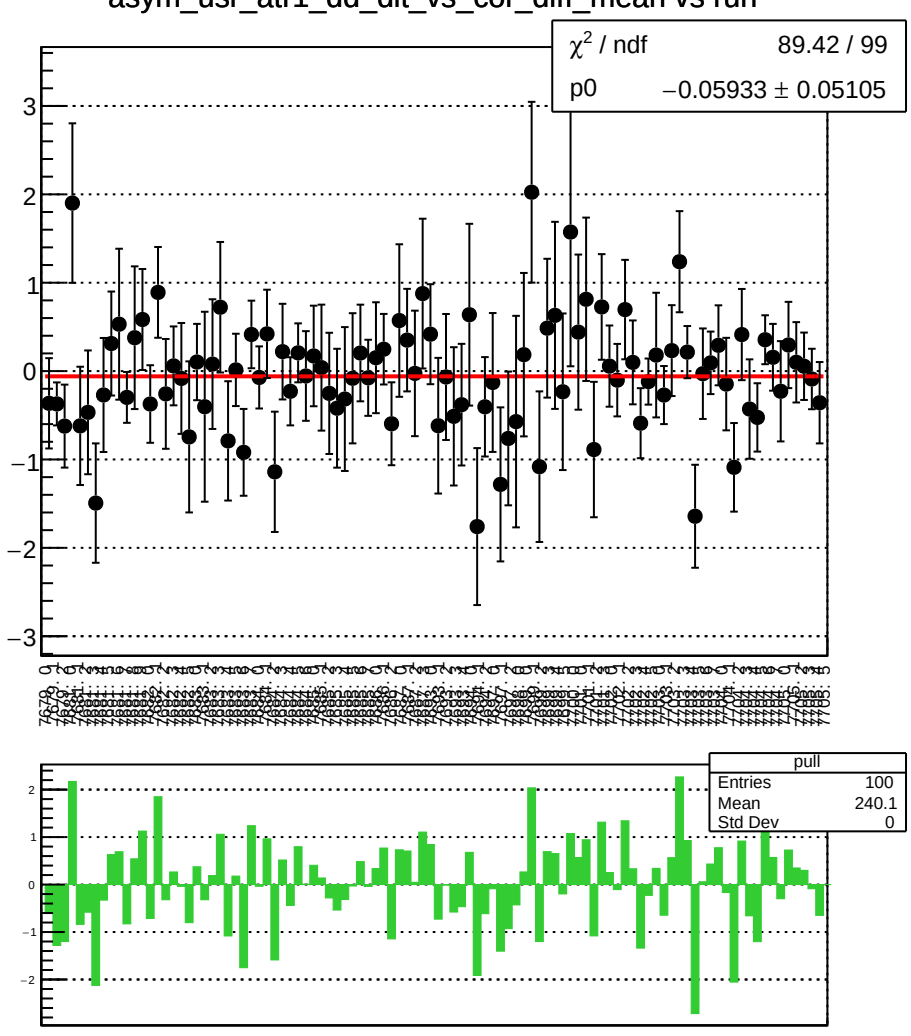

asym_usr_atr1_dd_mean vs run
×10^3
χ² / ndf 97.71 / 99
p0 −116.3 ± 2360
100
50
0
−50
−100
pull
Entries 100
Mean −308.3
Std Dev 0
3
2
1
0
−1
−2
−3

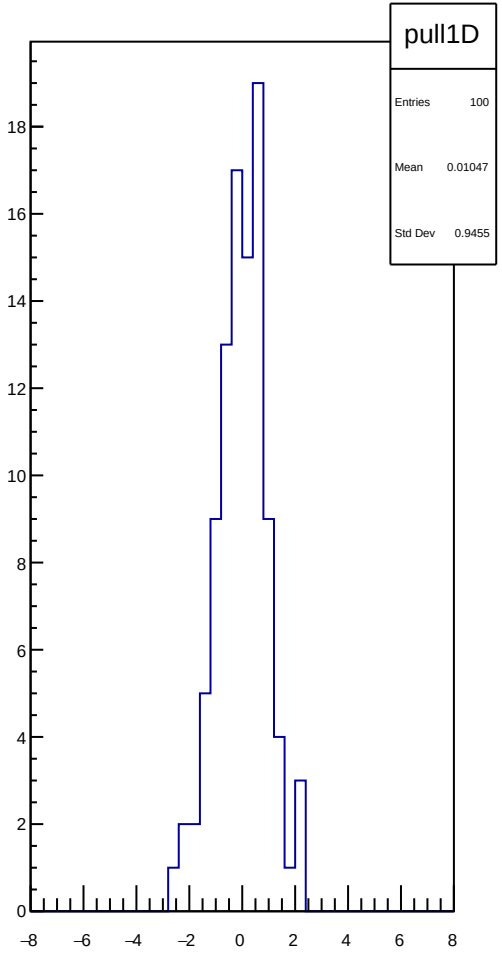

pull1D
Entries 100
Mean 0.01614
Std Dev 0.9884
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

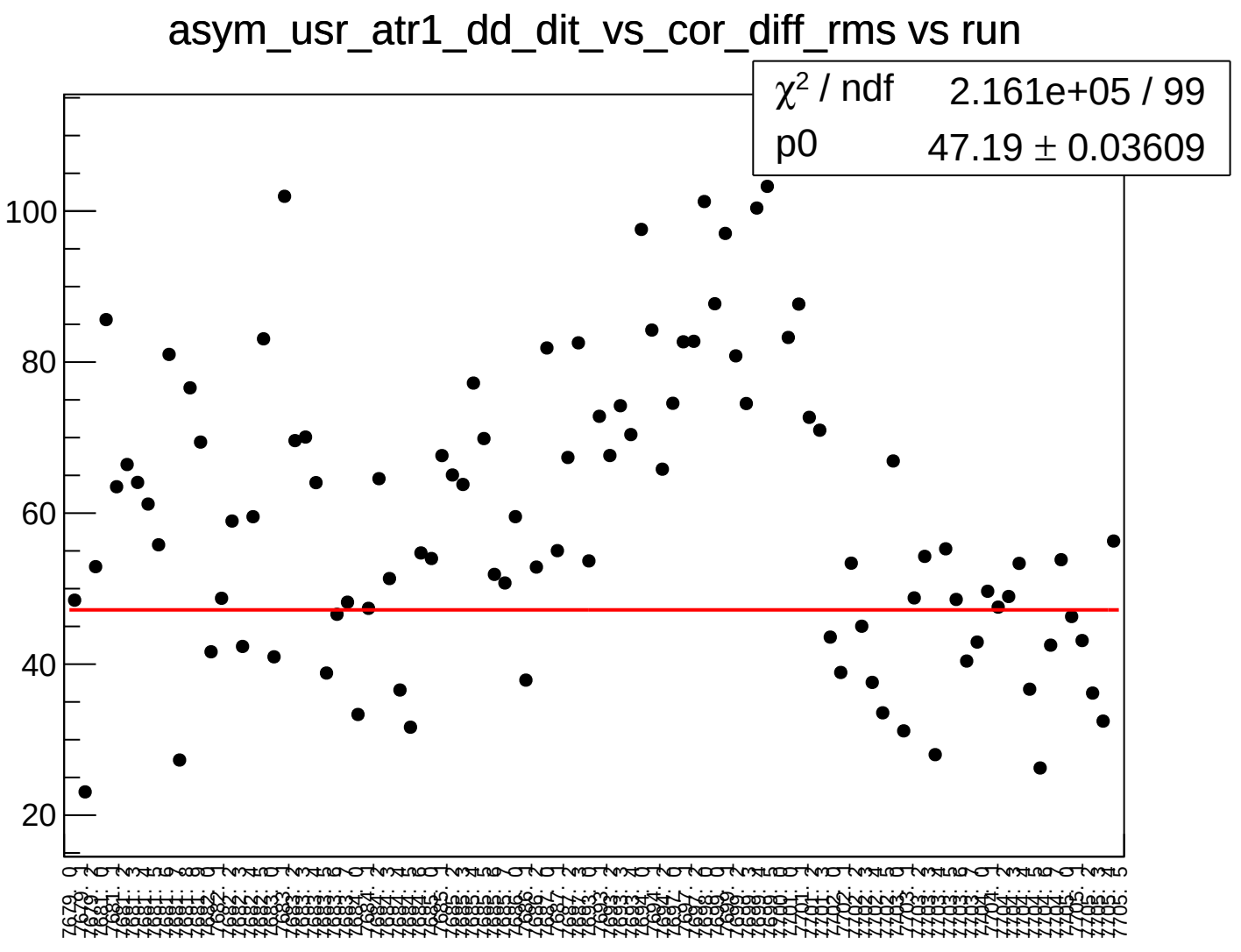

asym_usr_atr1_dd_rms vs run
χ² / ndf 7536 / 99
p0 2311 ± 1.669
2600
2500
2400
2300
2200
2100
2000

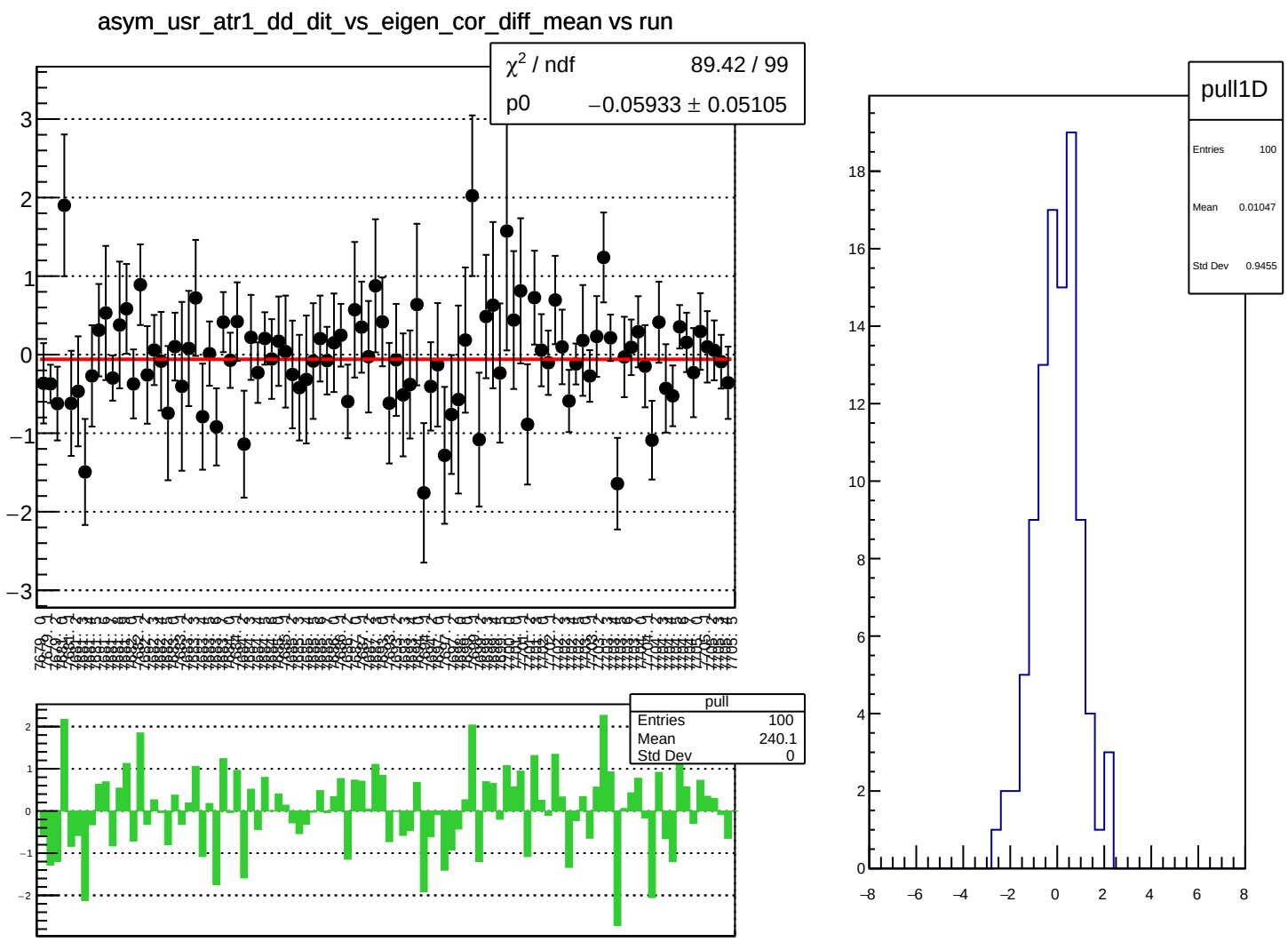

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 110.4 / 99
p0 −2.597e−14 ± 6.976e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 100
Mean 16.95
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.1042
Std Dev 1.046
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

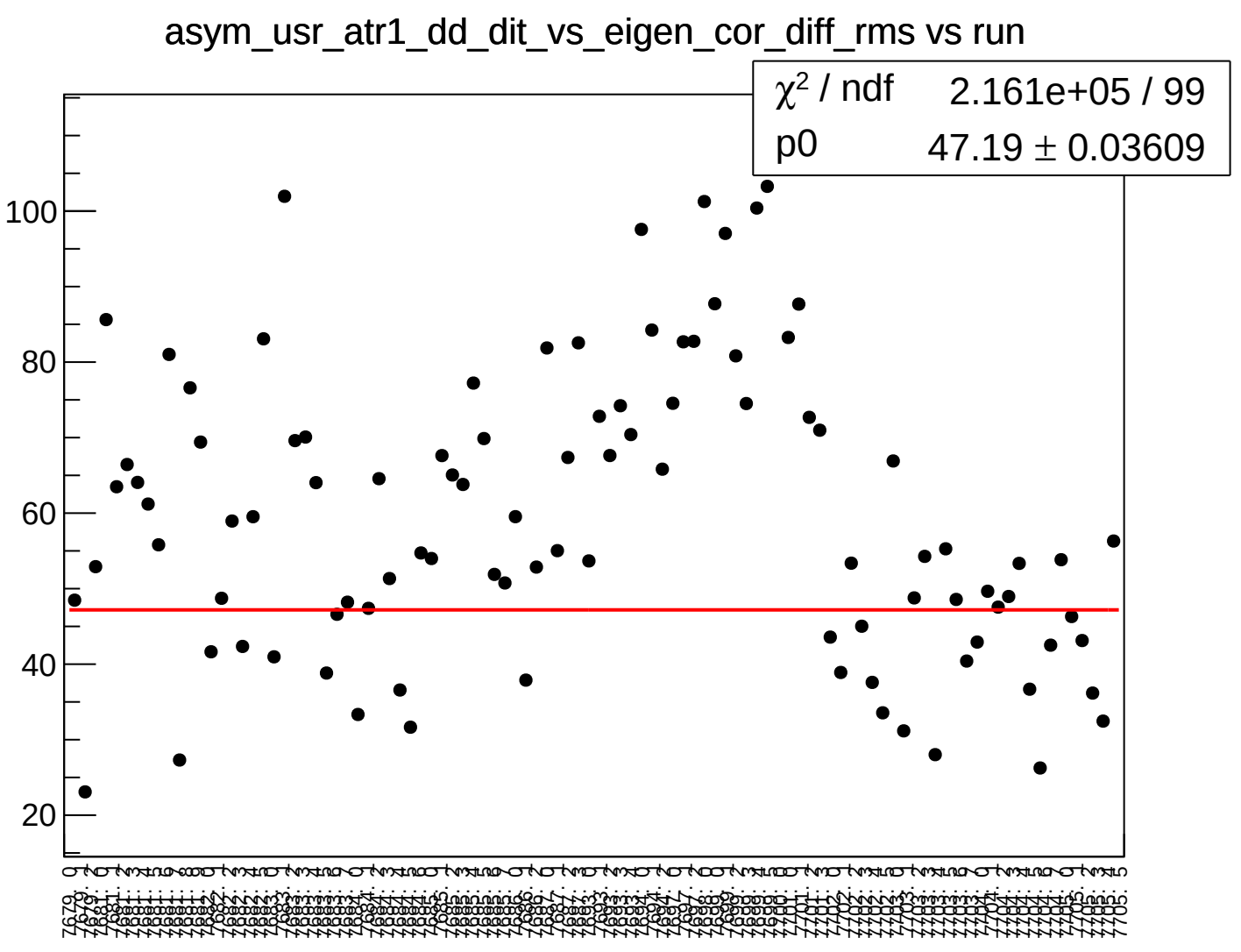

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.451e+06 / 99
p0 3.396e−11 ± 4.933e−14
1
0.8
0.6
0.4
0.2
0

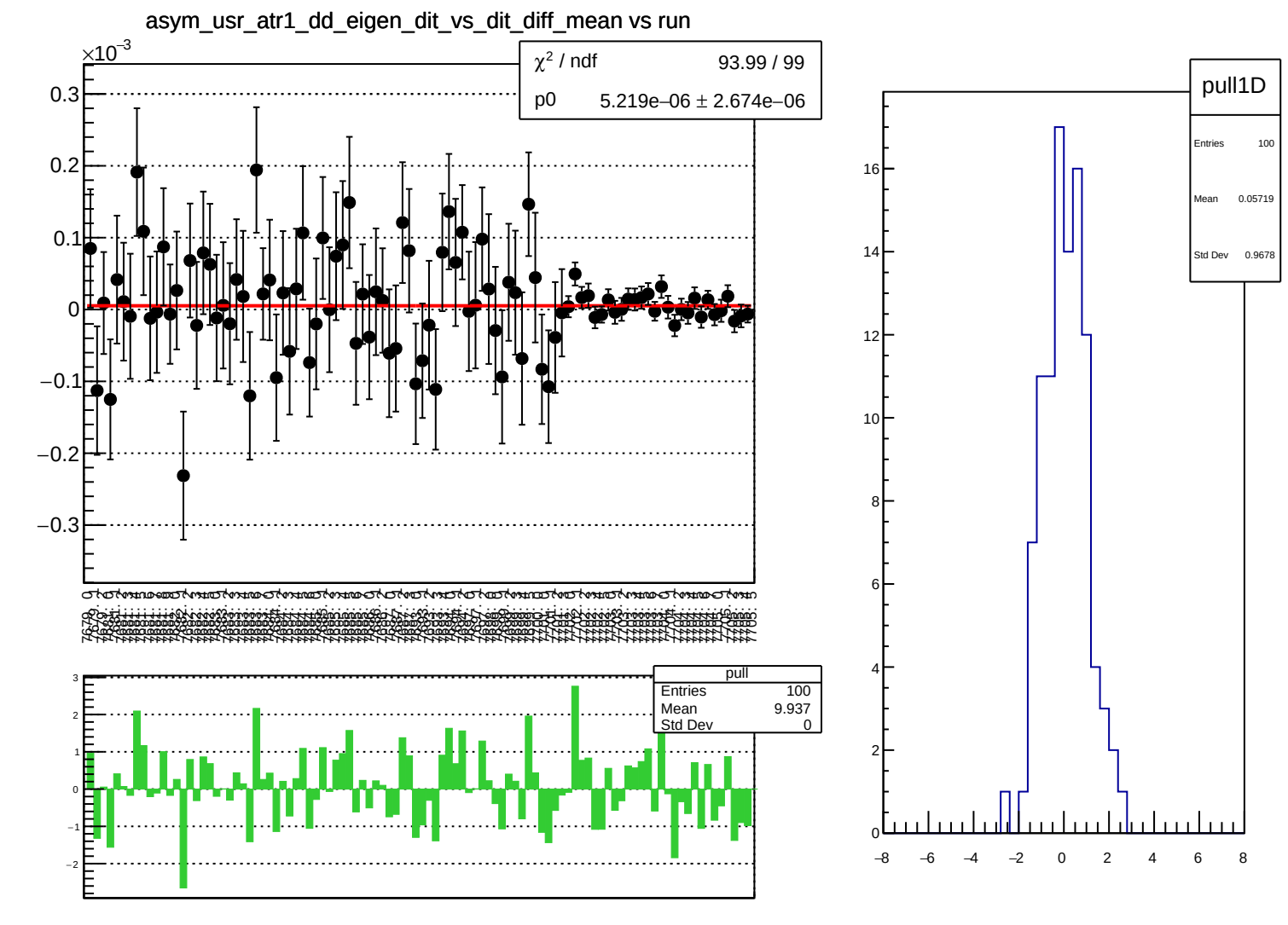

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.42 / 99
p0 −0.05933 ± 0.05105
pull
Entries 100
Mean 240.1
Std Dev 0

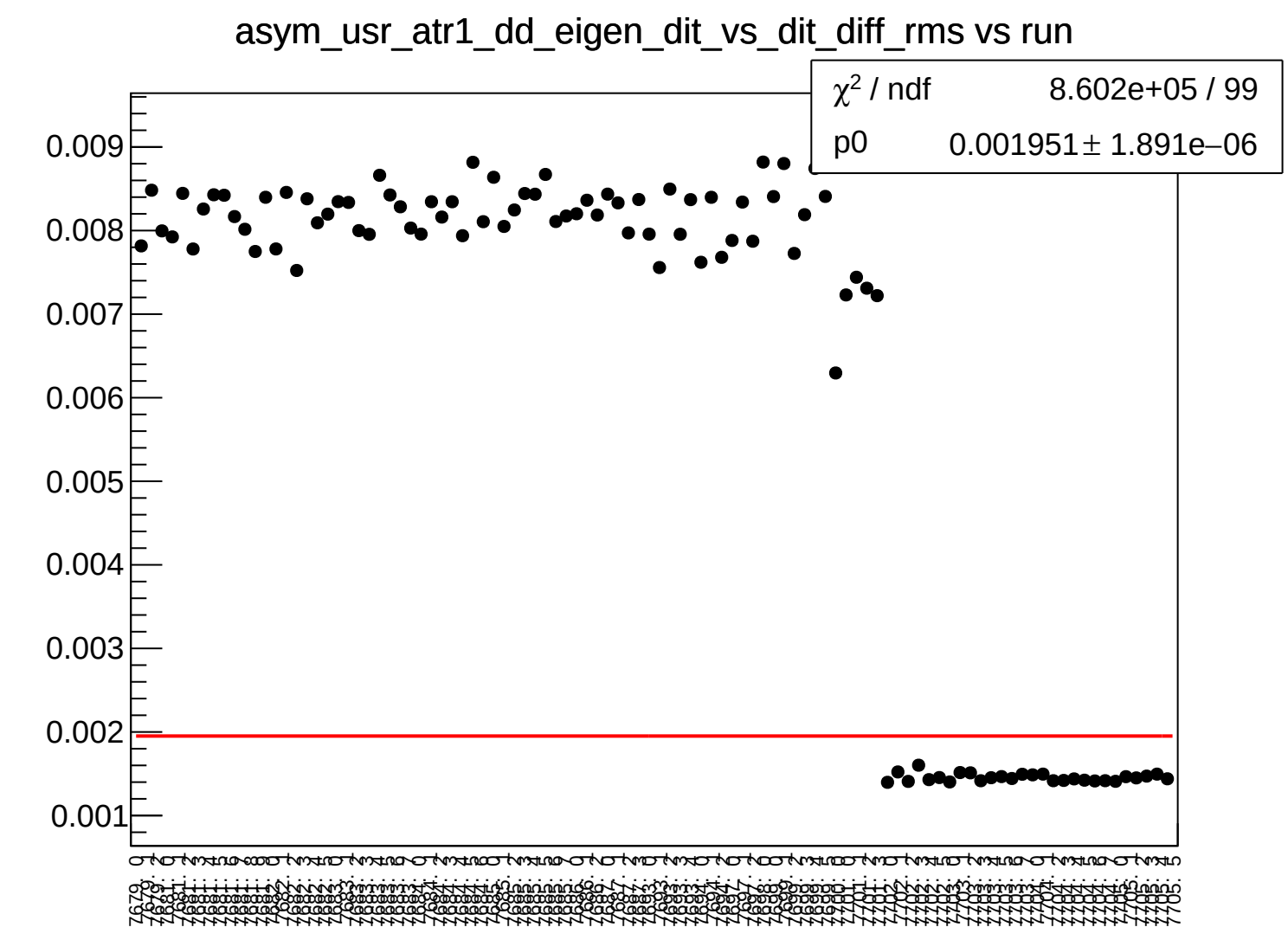

pull1D
Entries 100
Mean 0.01047
Std Dev 0.9455

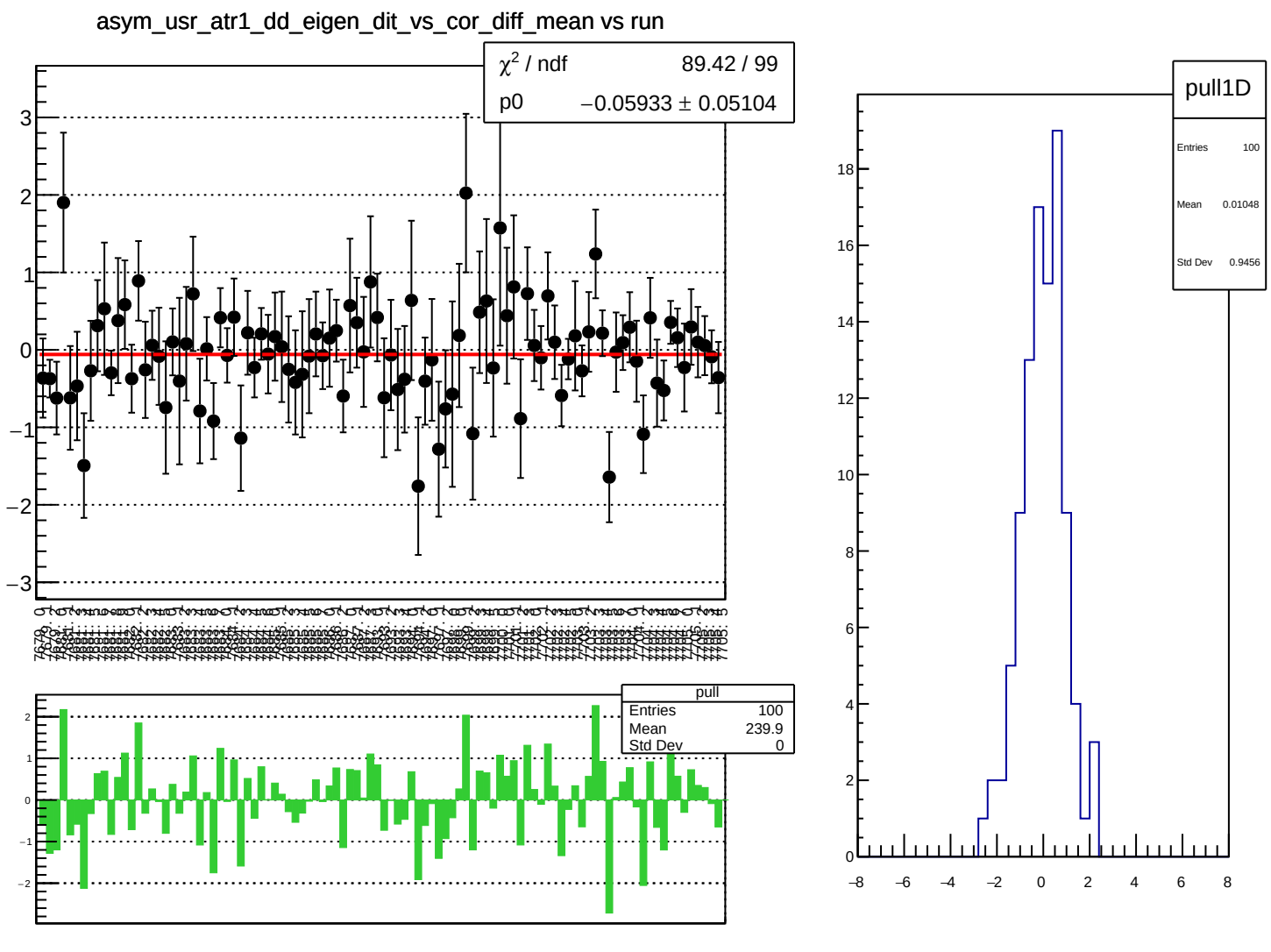

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.161e+05 / 99
p0 47.19 ± 0.03609
100
80
60
40
20

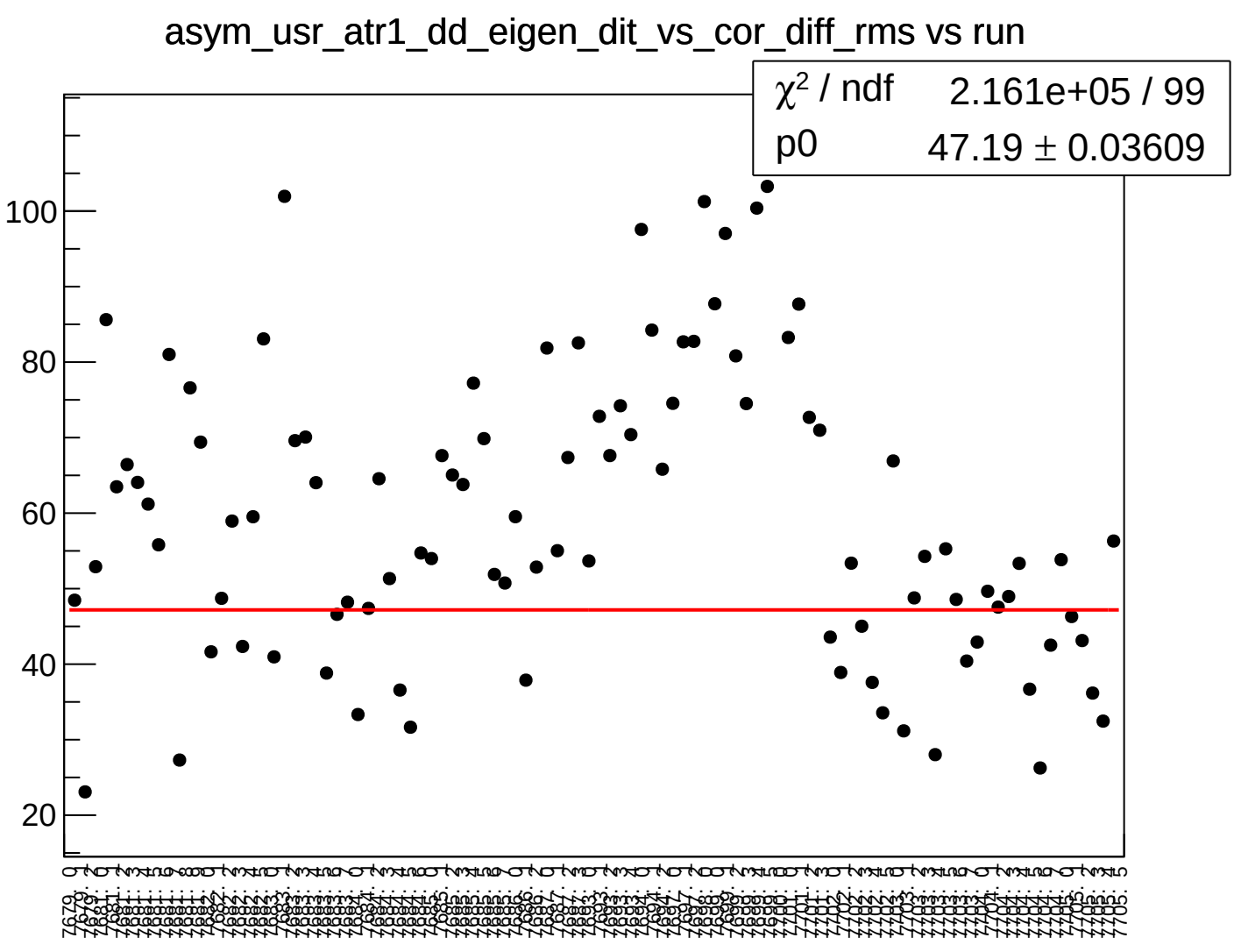

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.42 / 99
p0 −0.05933 ± 0.05105
pull
Entries 100
Mean 240.1
Std Dev 0
pull1D
Entries 100
Mean 0.01047
Std Dev 0.9455

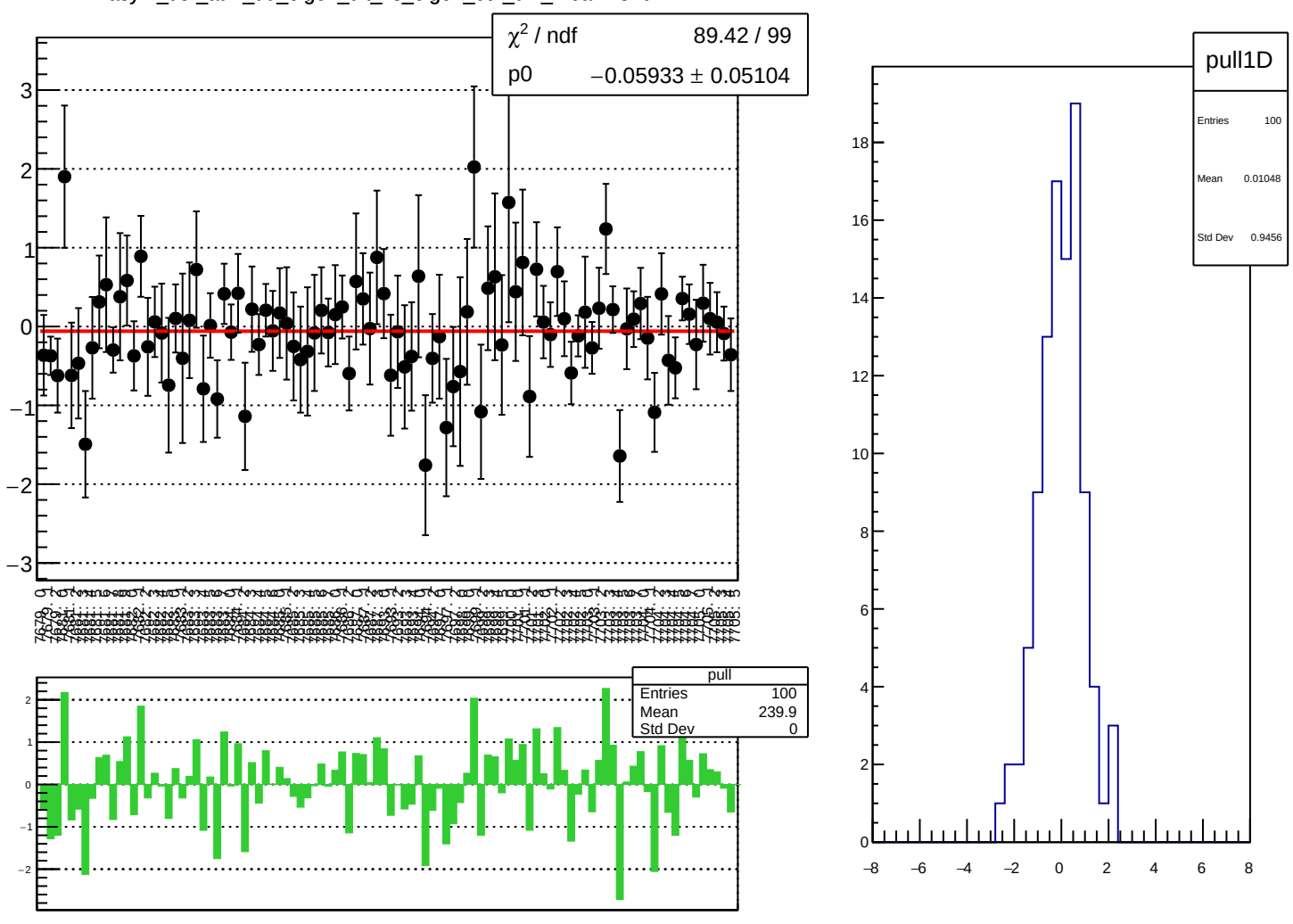

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.161e+05 / 99
p0 47.19 ± 0.03609
100
80
60
40
20

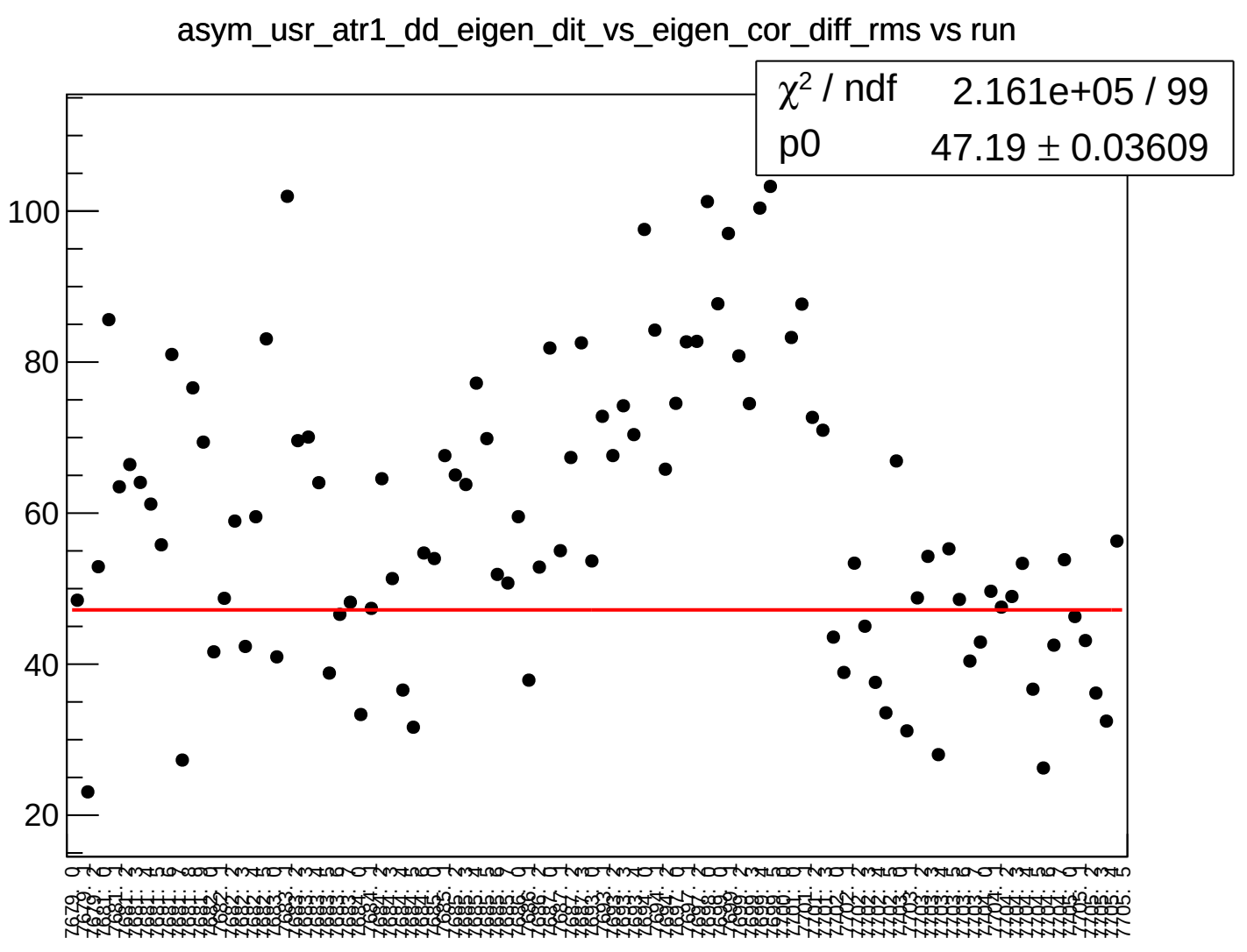

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.99 / 99
p0 5.219e−06 ± 2.674e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 100
Mean 9.937
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.05719
Std Dev 0.9678
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

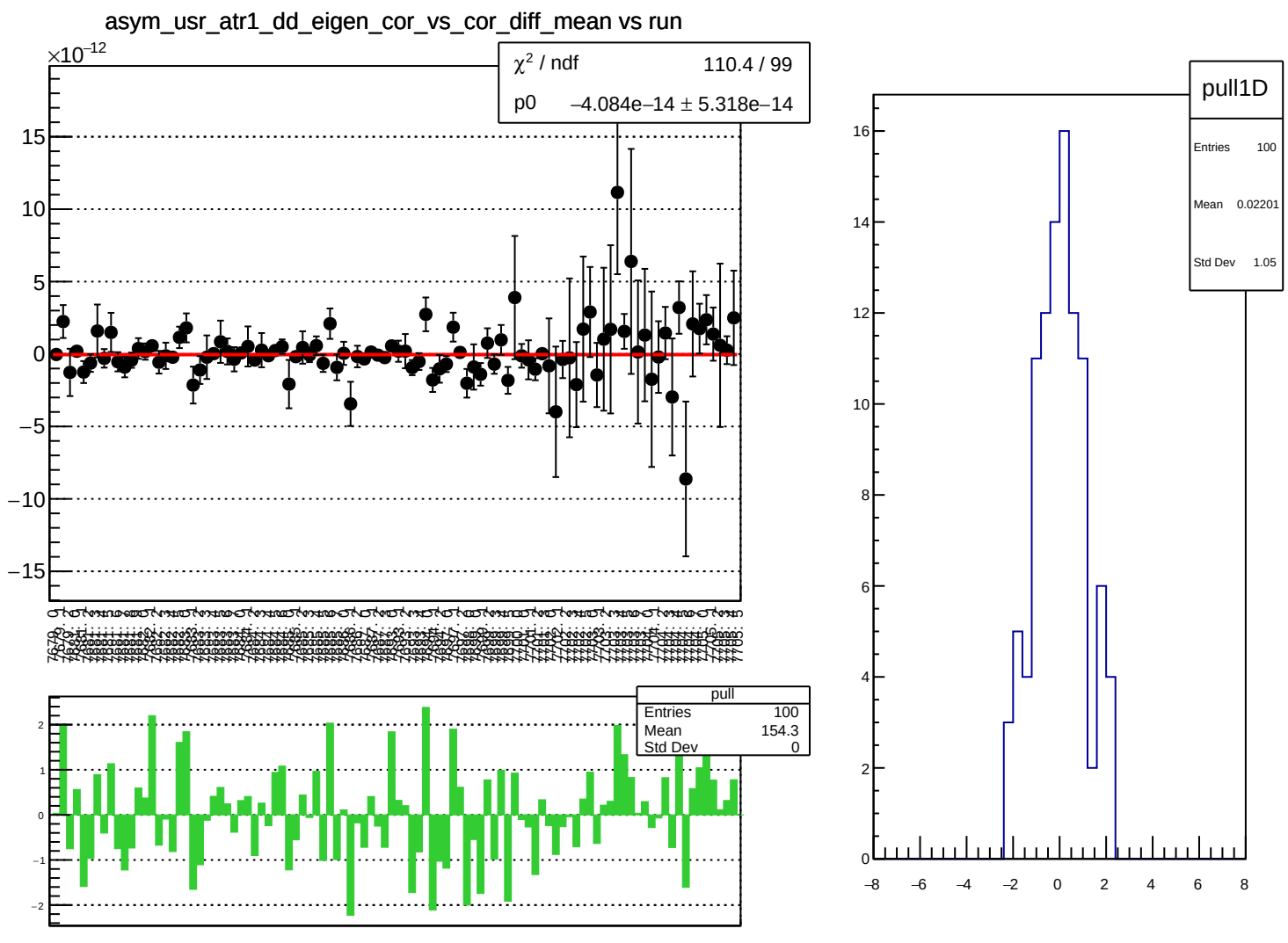

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.602e+05 / 99
p0 0.001951 ± 1.891e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

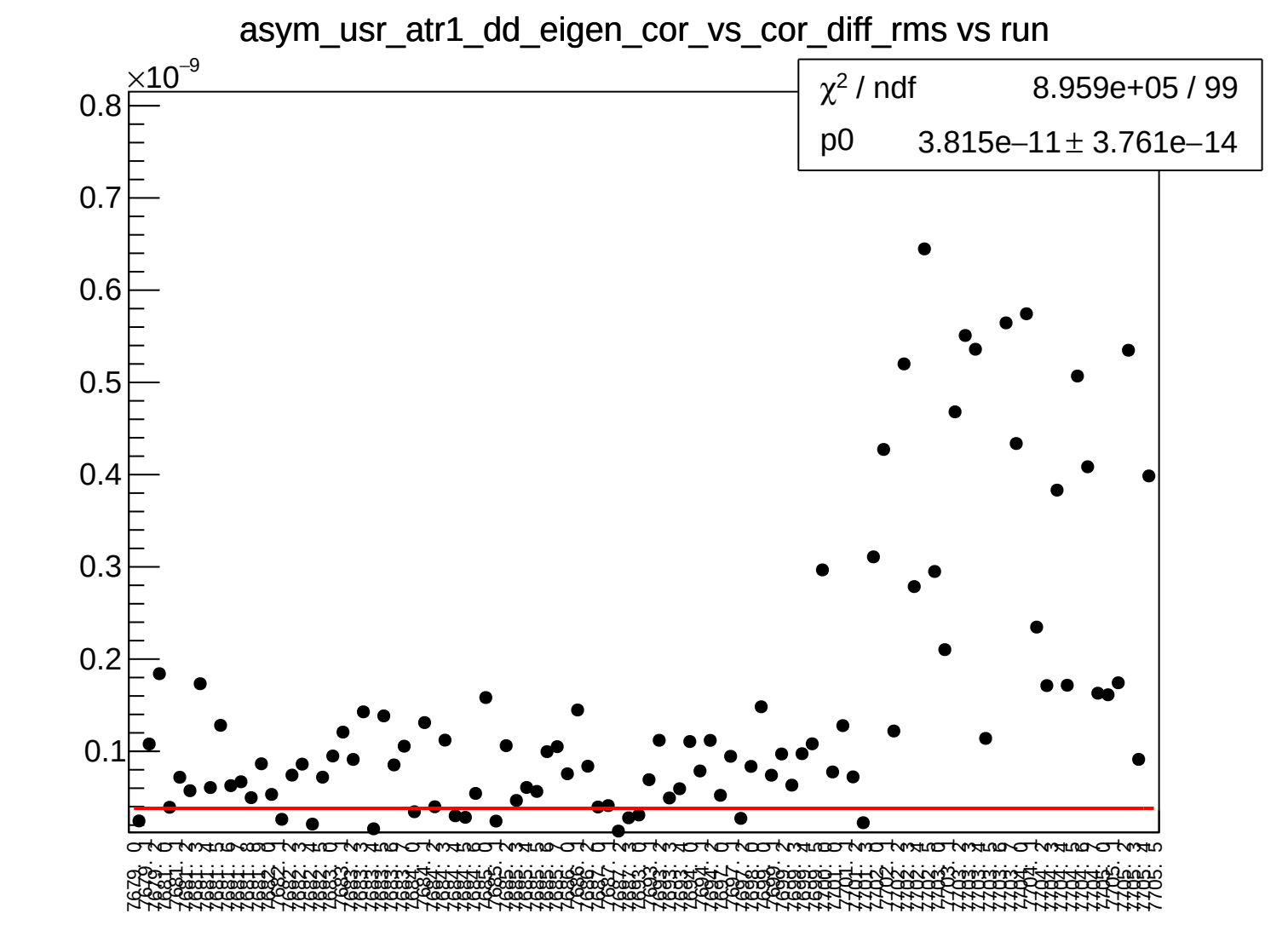

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.42 / 99
p0 −0.05933 ± 0.05104
pull
Entries 100
Mean 239.9
Std Dev 0
pull1D
Entries 100
Mean 0.01048
Std Dev 0.9456

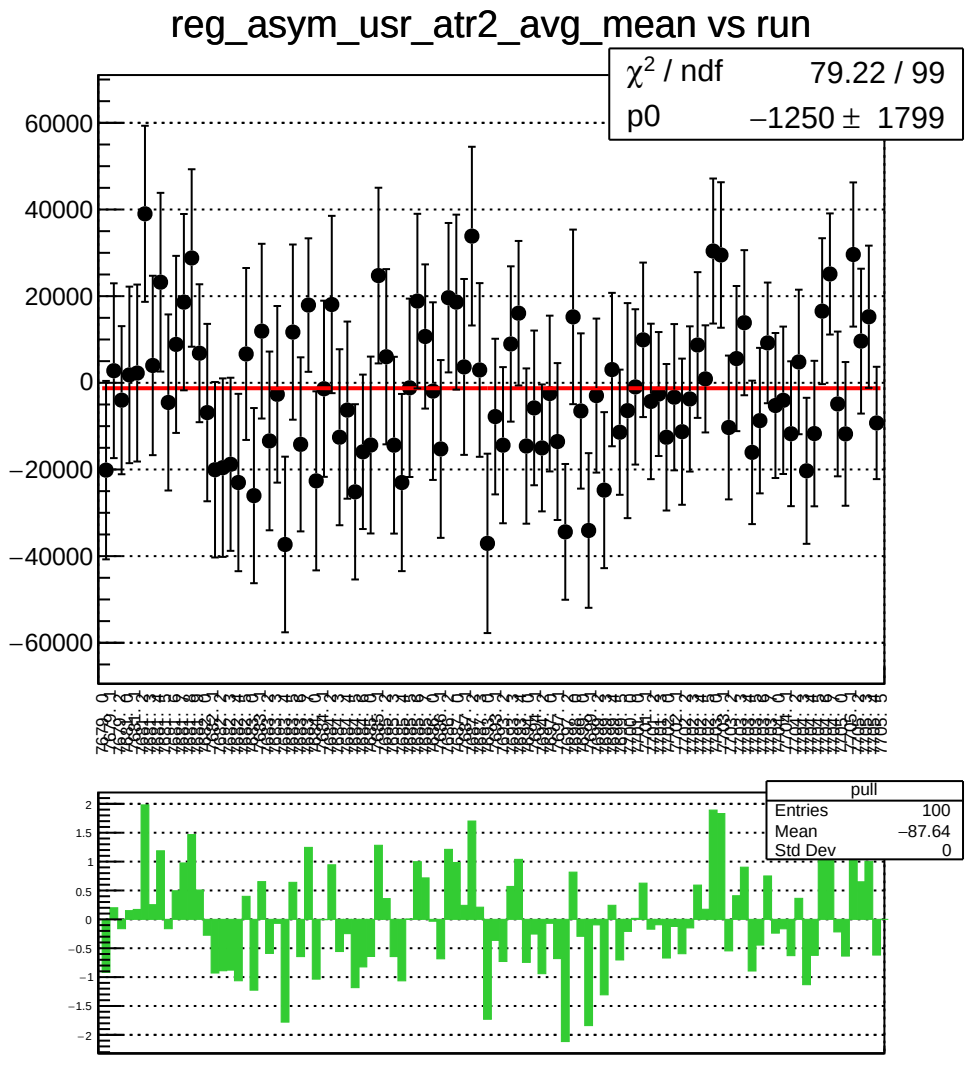

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.161e+05 / 99
p0 47.19 ± 0.03609
100
80
60
40
20

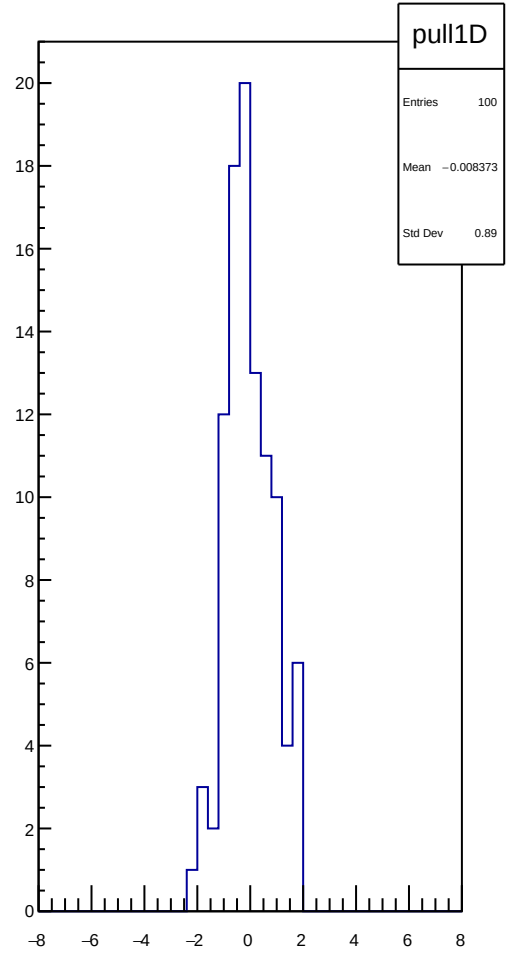

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.42 / 99
p0 −0.05933 ± 0.05104
pull
Entries 100
Mean 239.9
Std Dev 0
pull1D
Entries 100
Mean 0.01048
Std Dev 0.9456

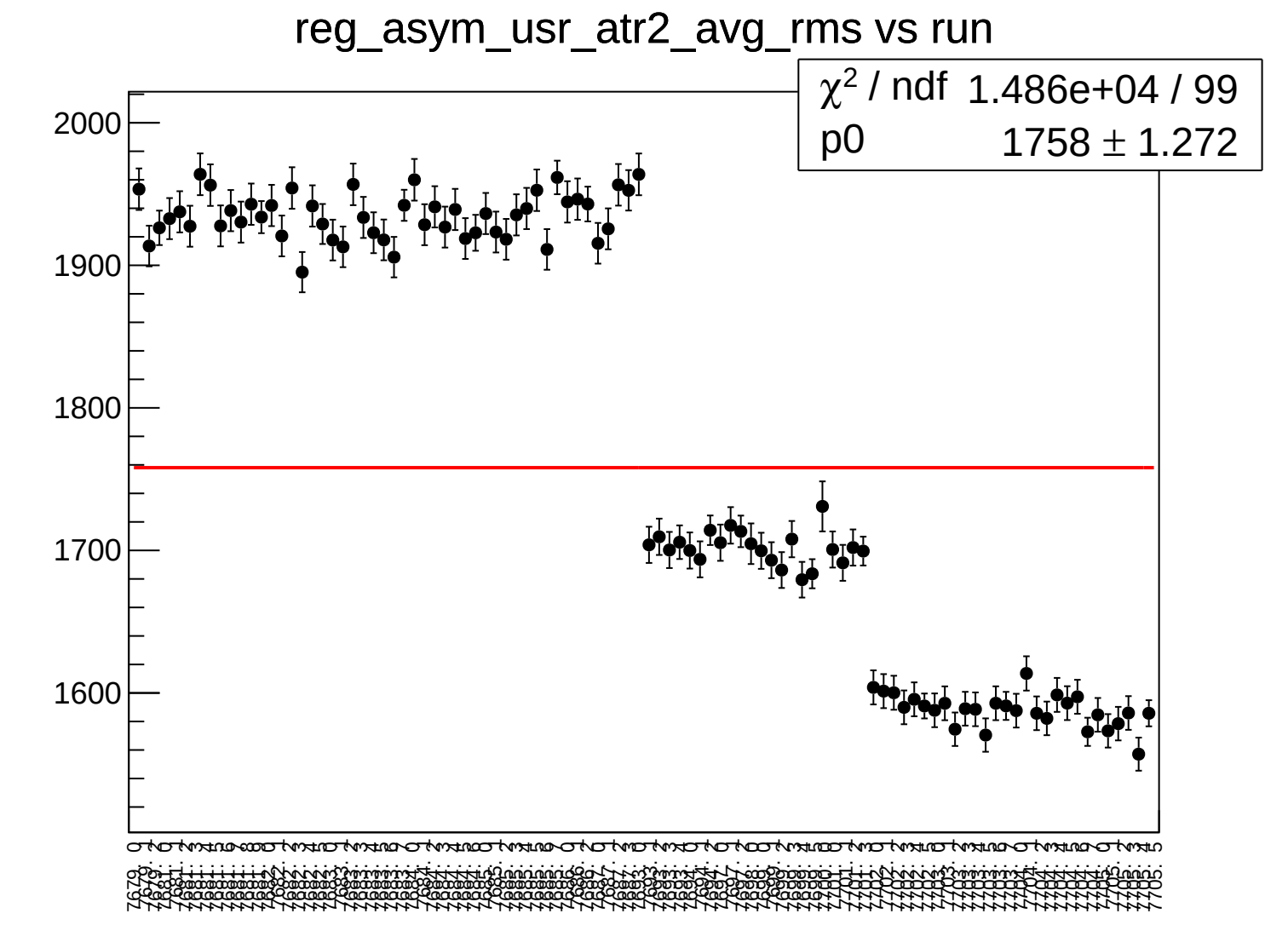

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.161e+05 / 99
p0 47.19 ± 0.03609
100
80
60
40
20

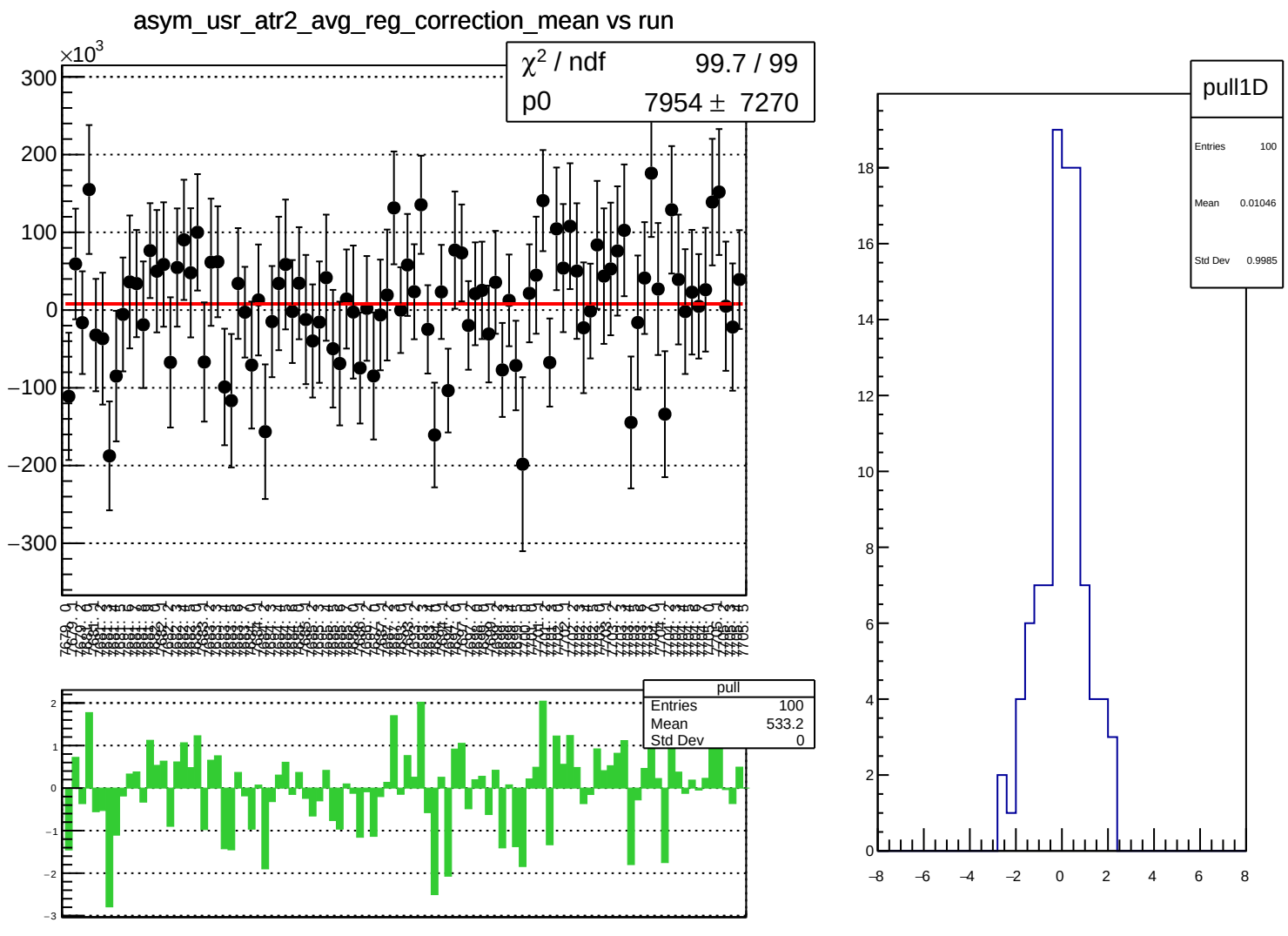

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 110.4 / 99
p0 −4.084e−14 ± 5.318e−14
15
10
5
0
−5
−10
−15
pull
Entries 100
Mean 154.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.02201
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

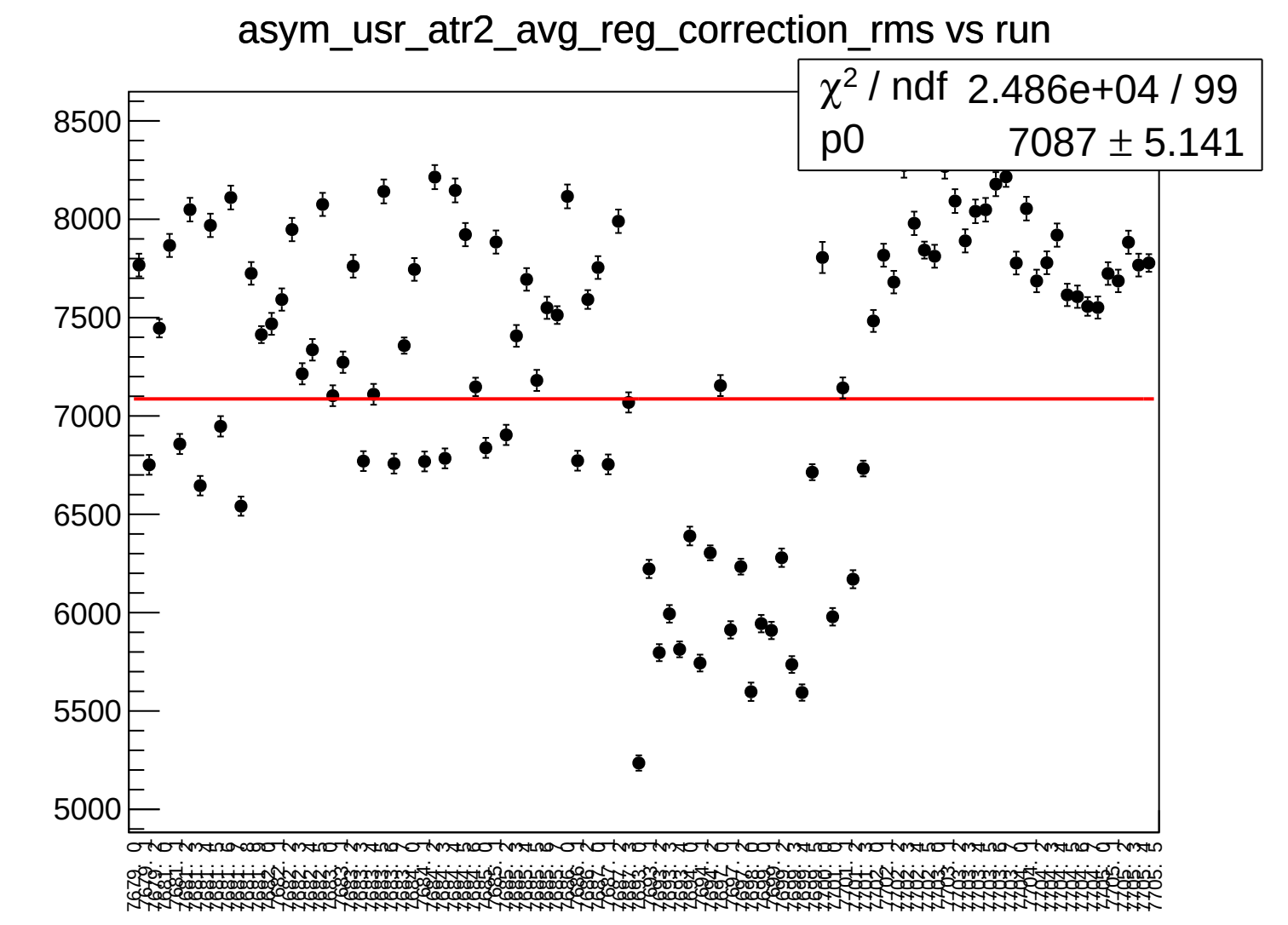

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 8.959e+05 / 99
p0 3.815e−11 ± 3.761e−14

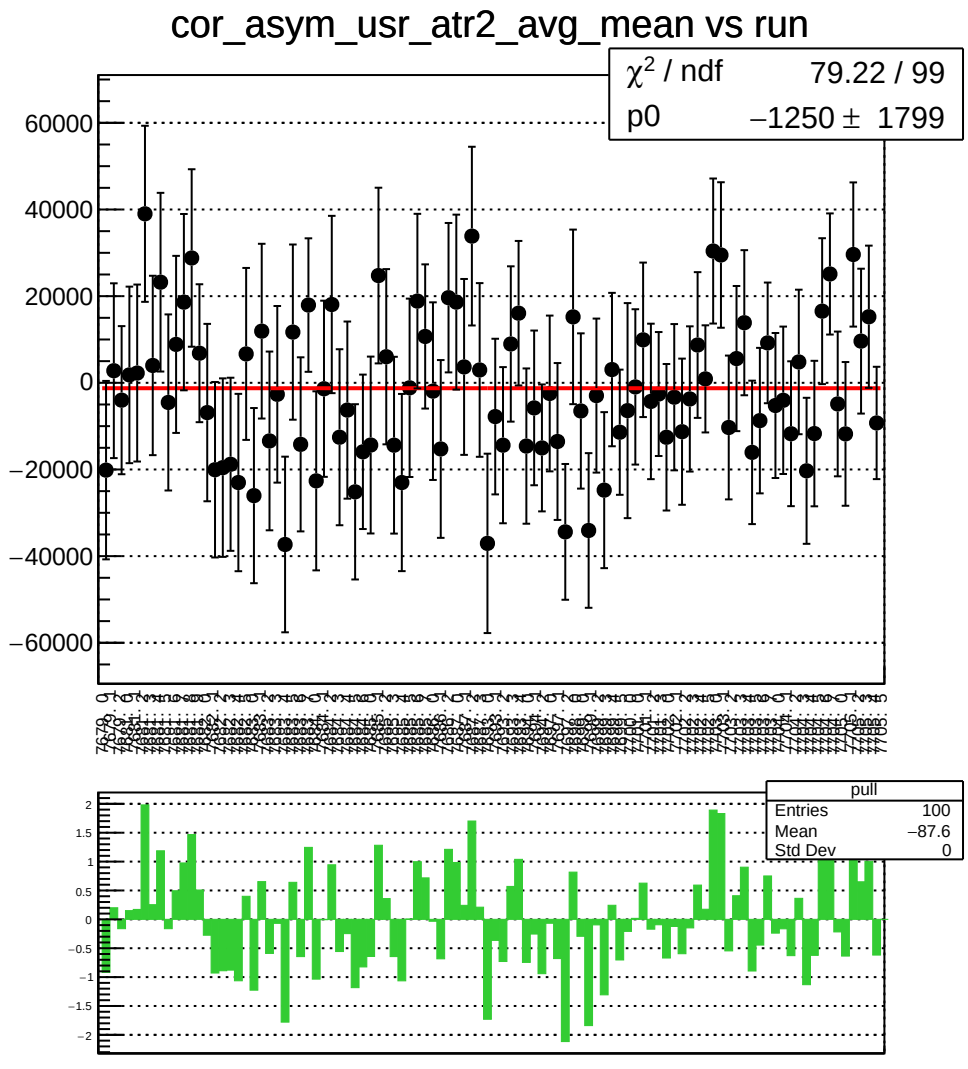

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 79.22 / 99
p0 −1250 ± 1799
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −87.64
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

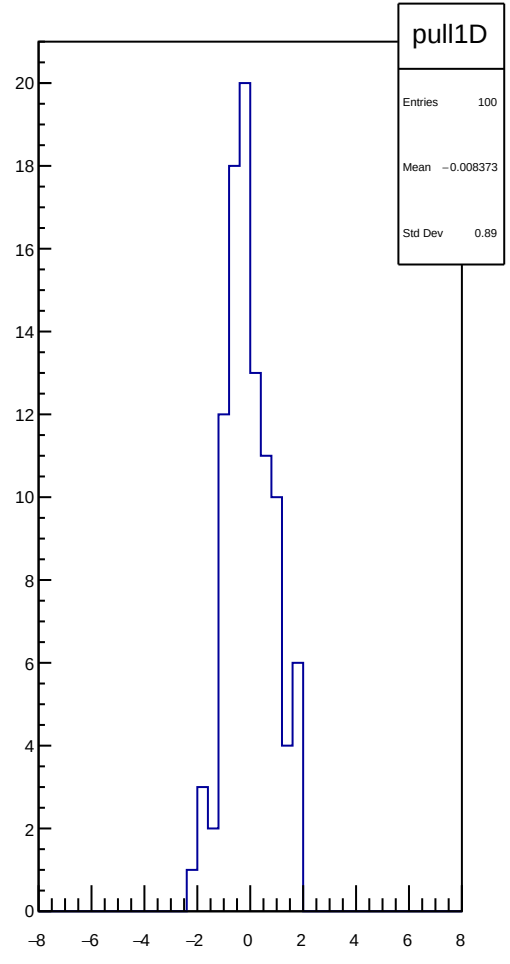

pull1D
Entries 100
Mean −0.008373
Std Dev 0.89
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

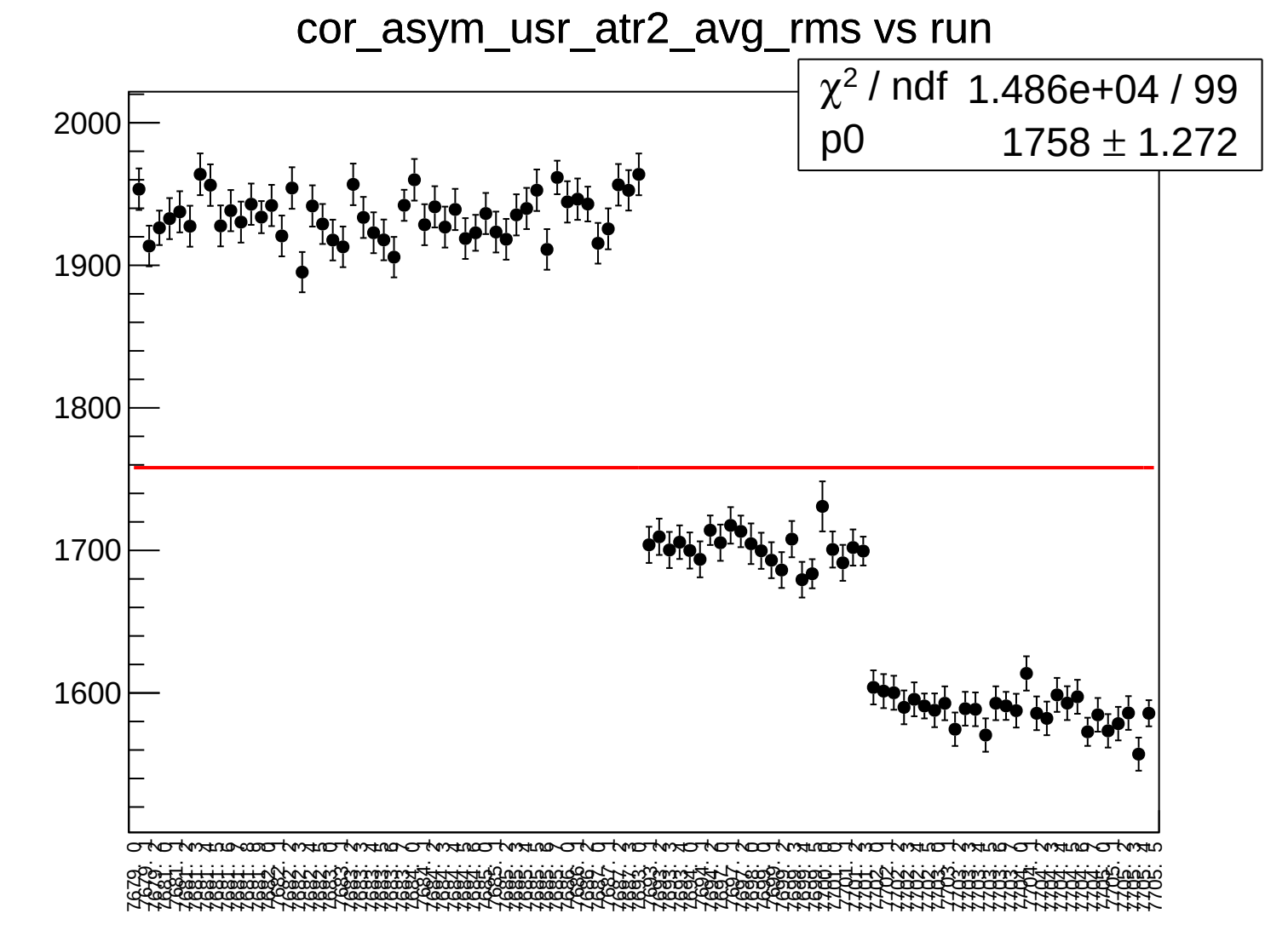

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 1.486e+04 / 99
p0 1758 ± 1.272
2000
1900
1800
1700
1600

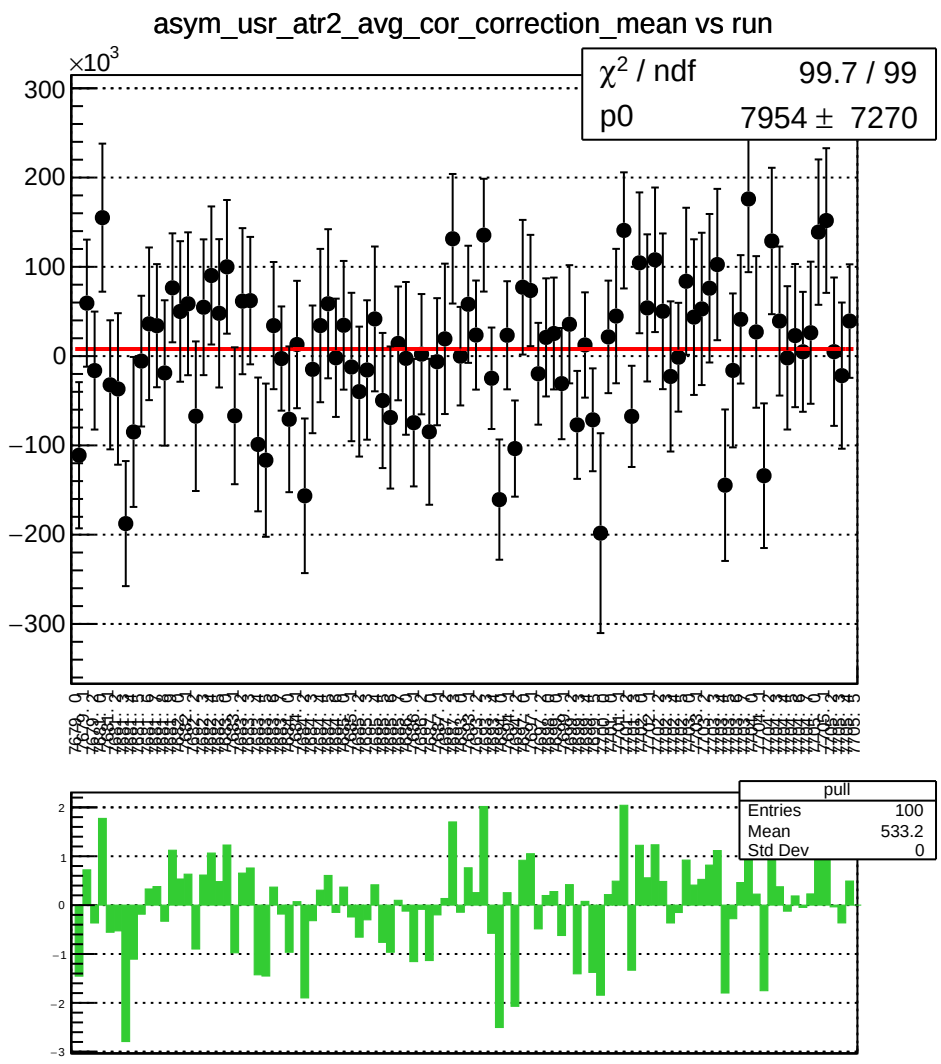

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 99.7 / 99
p0 7954 ± 7270
pull
Entries 100
Mean 533.2
Std Dev 0
pull1D
Entries 100
Mean 0.01046
Std Dev 0.9985

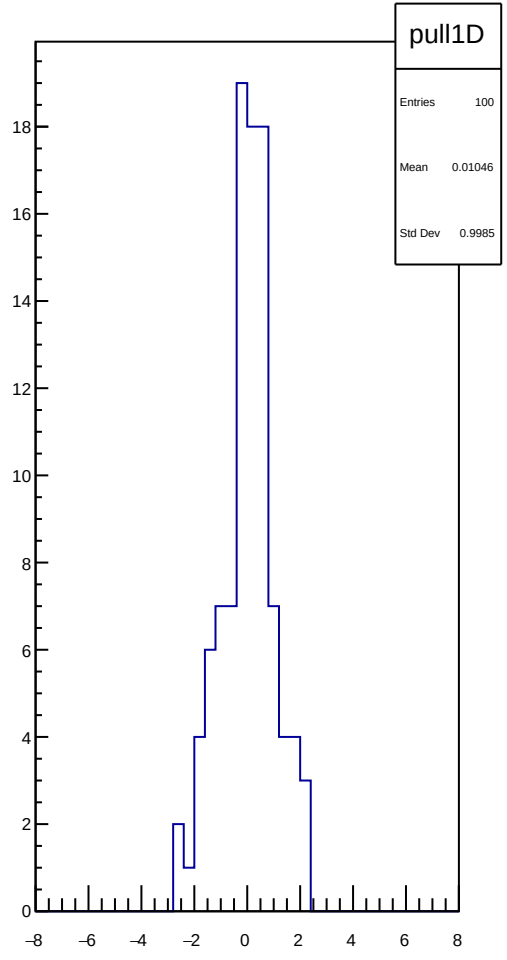

asym_usr_atr2_avg_reg_correction_rms vs run
χ^2 / ndf 2.486e+04 / 99
p0 7087 ± 5.141
8500
8000
7500
7000
6500
6000
5500
5000

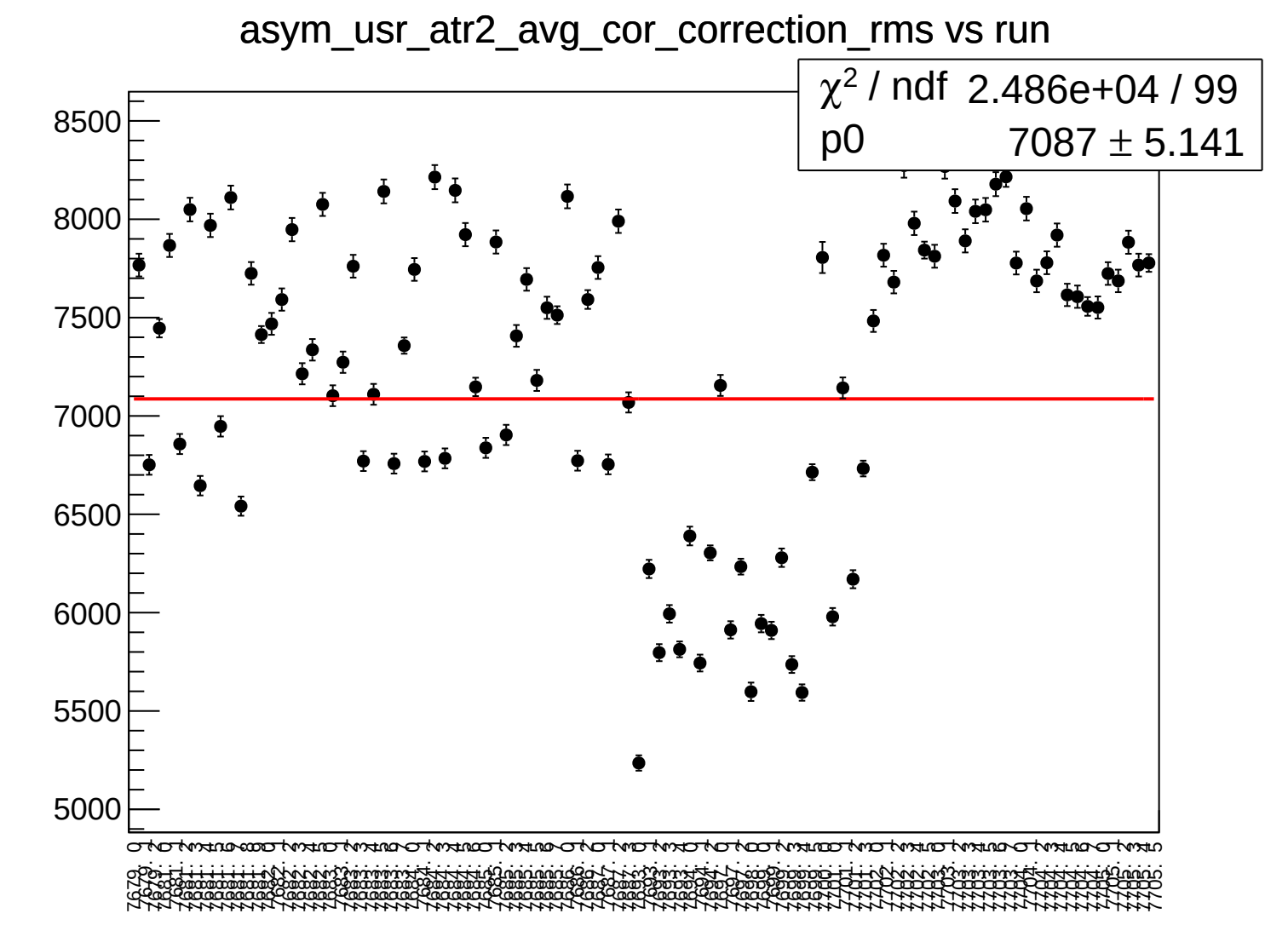

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 79.22 / 99
p0 −1250 ± 1799
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −87.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

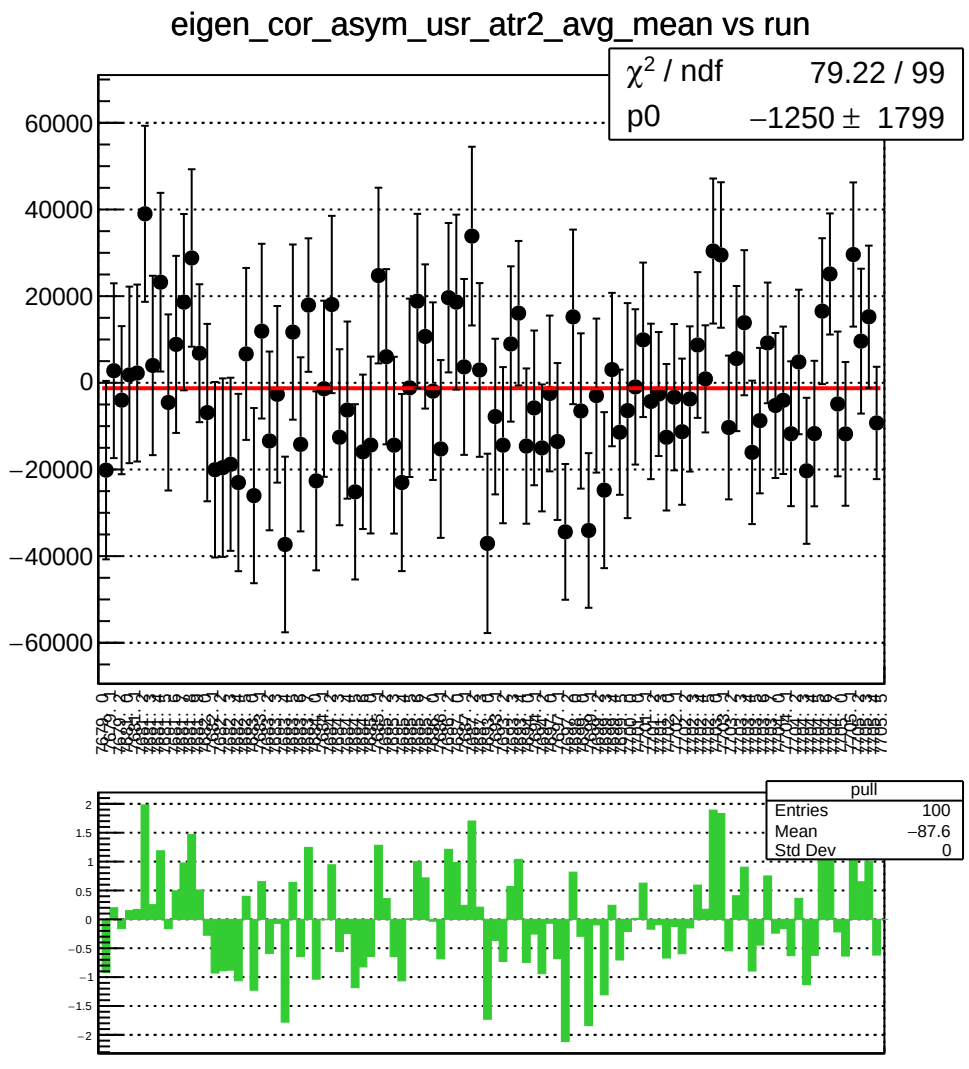

pull1D
Entries 100
Mean −0.008373
Std Dev 0.89
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

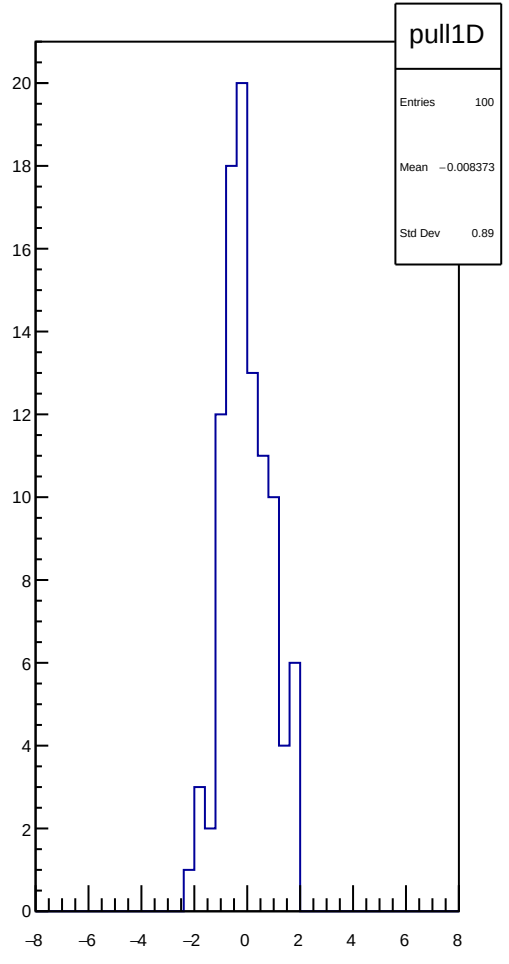

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 1.486e+04 / 99
p0 1758 ± 1.272
2000
1900
1800
1700
1600

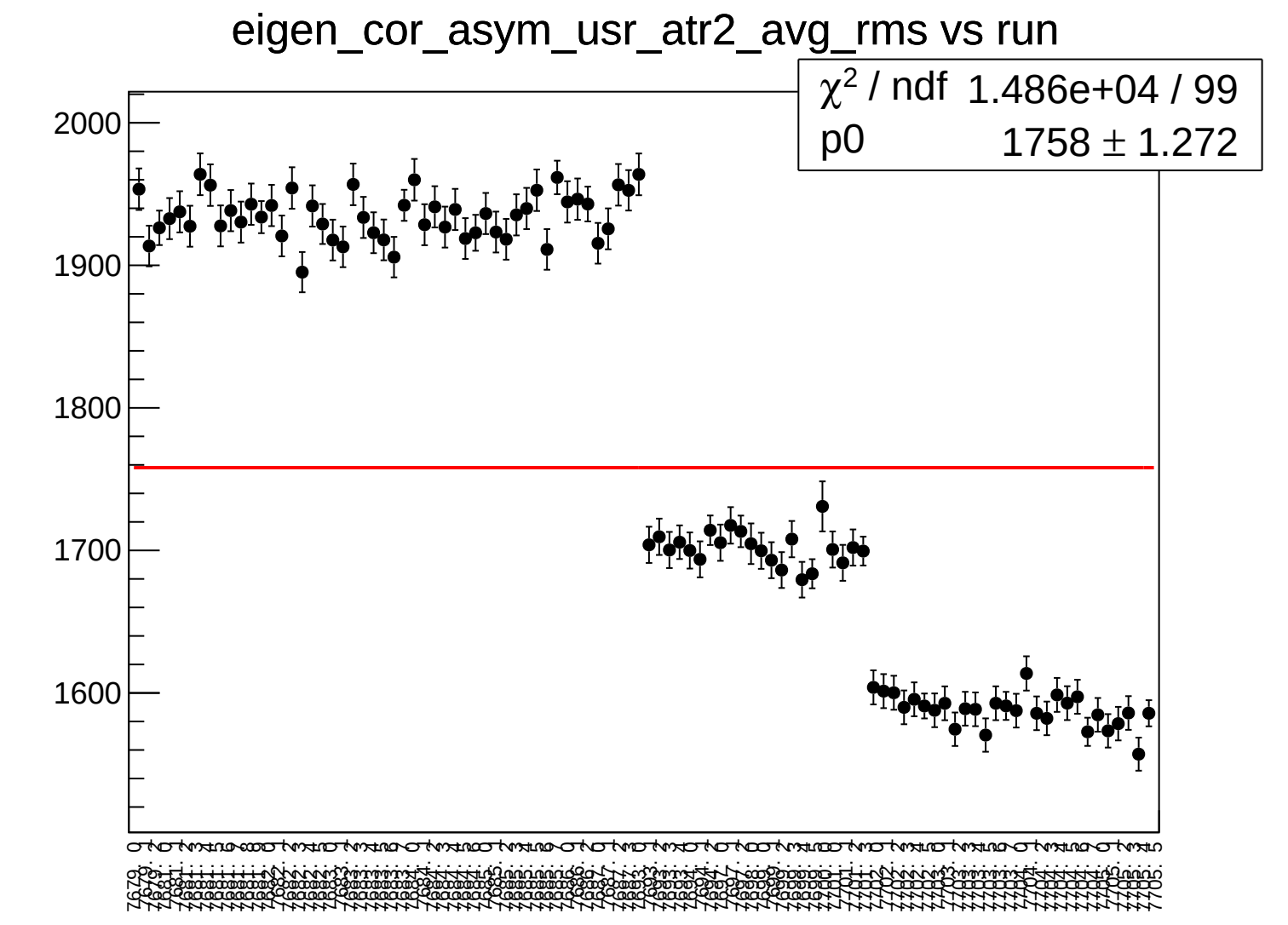

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 99.7 / 99
p0 7954 ± 7270
pull
Entries 100
Mean 533.2
Std Dev 0

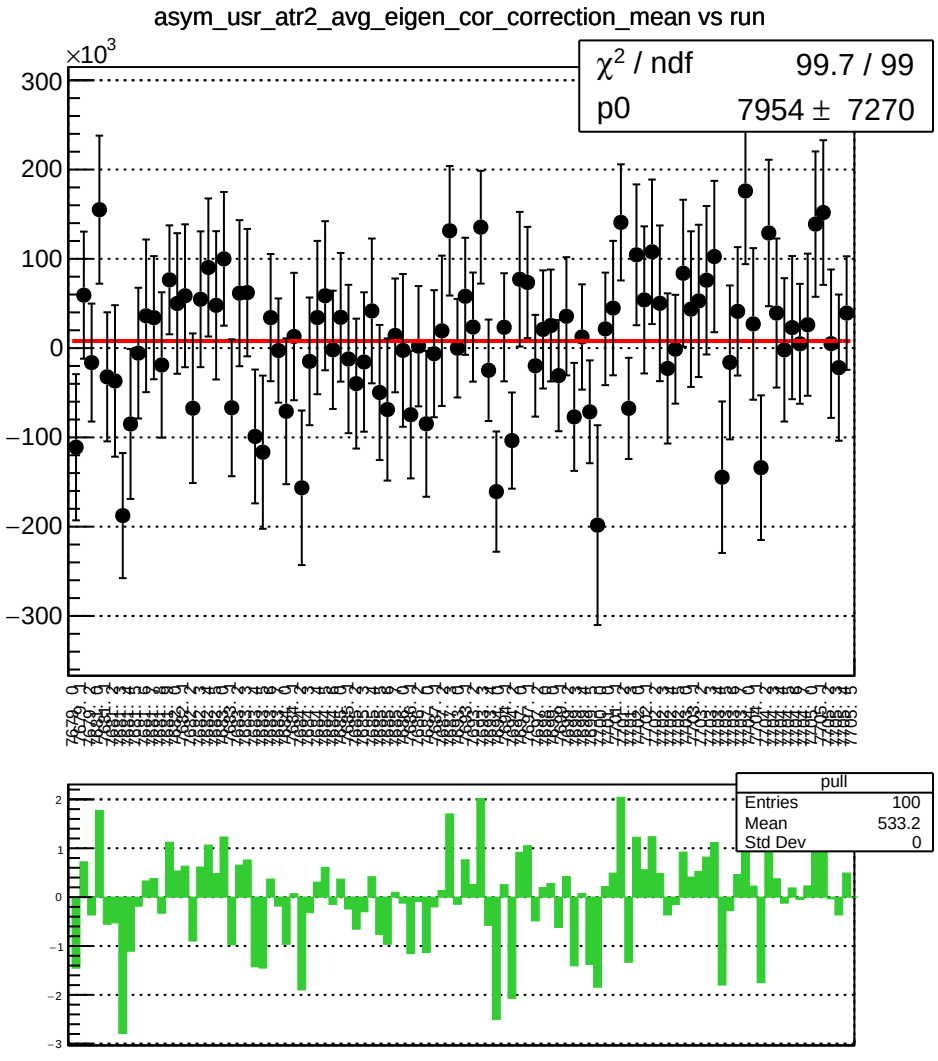

pull1D
Entries 100
Mean 0.01046
Std Dev 0.9985

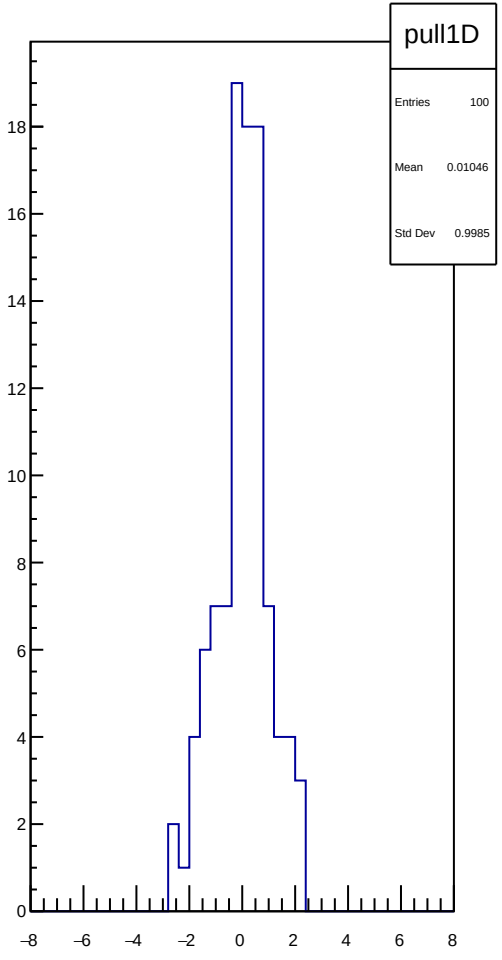

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 2.486e+04 / 99
p0 7087 ± 5.141
8500
8000
7500
7000
6500
6000
5500
5000

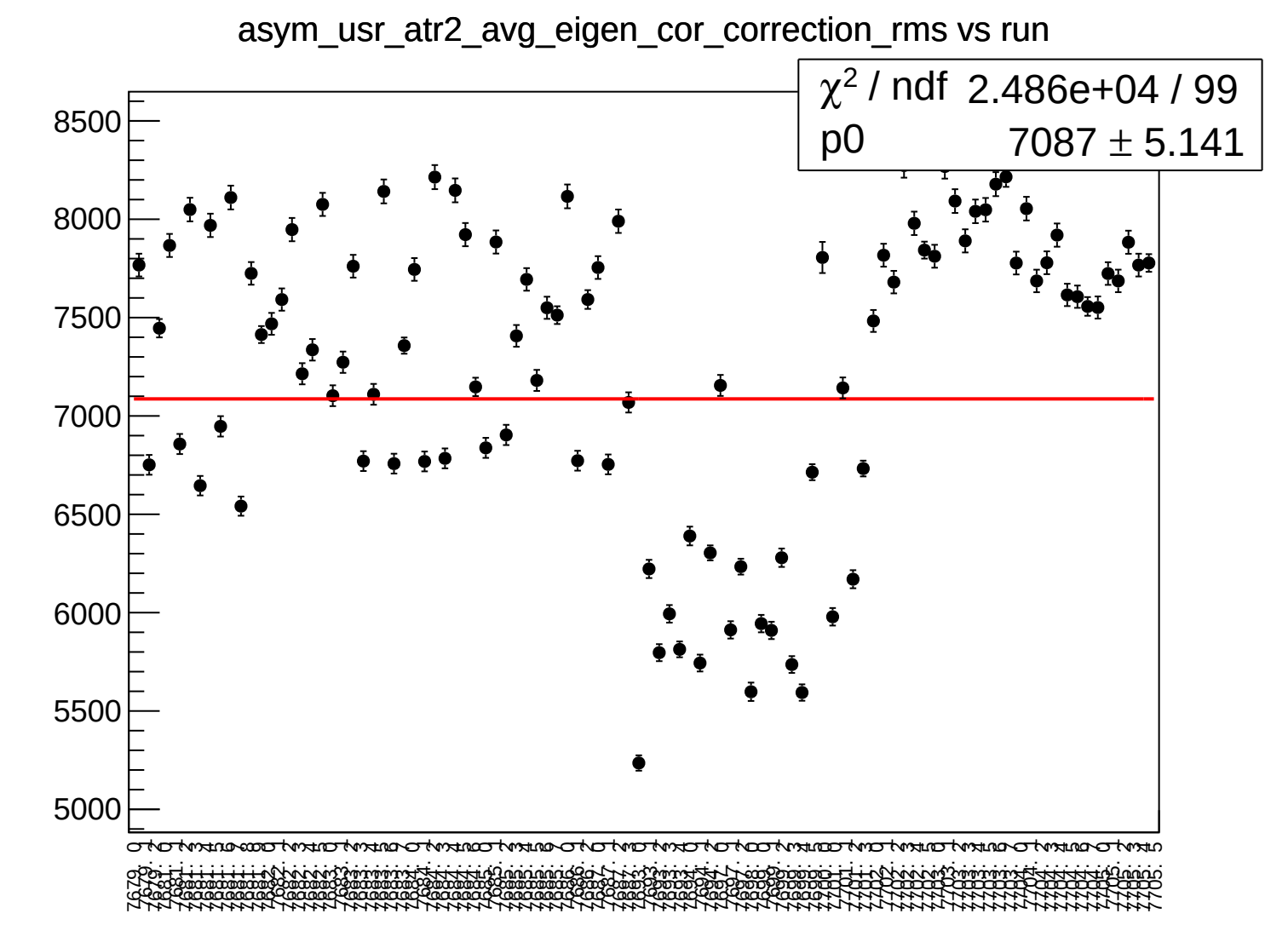

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 79.22 / 99
p0 −1250 ± 1799
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −87.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

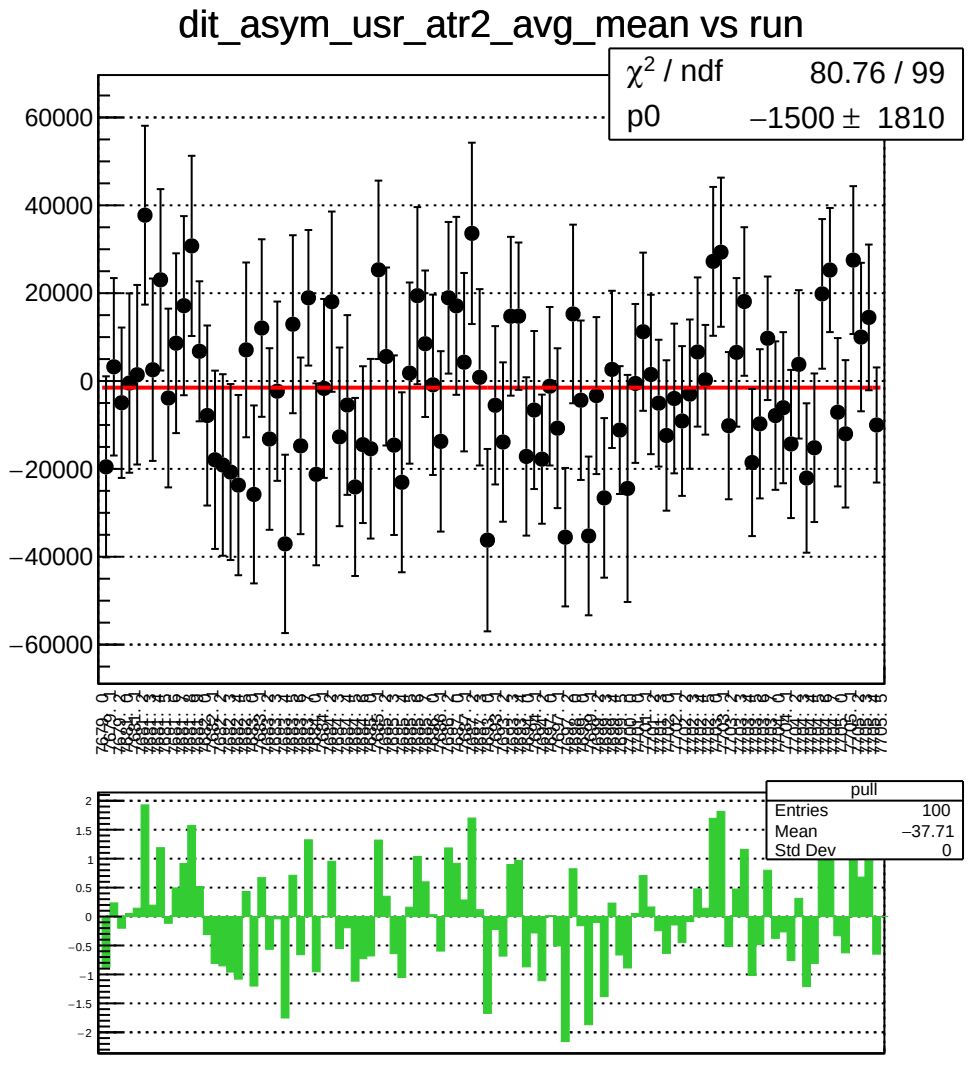

pull1D
Entries 100
Mean −0.008373
Std Dev 0.89
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

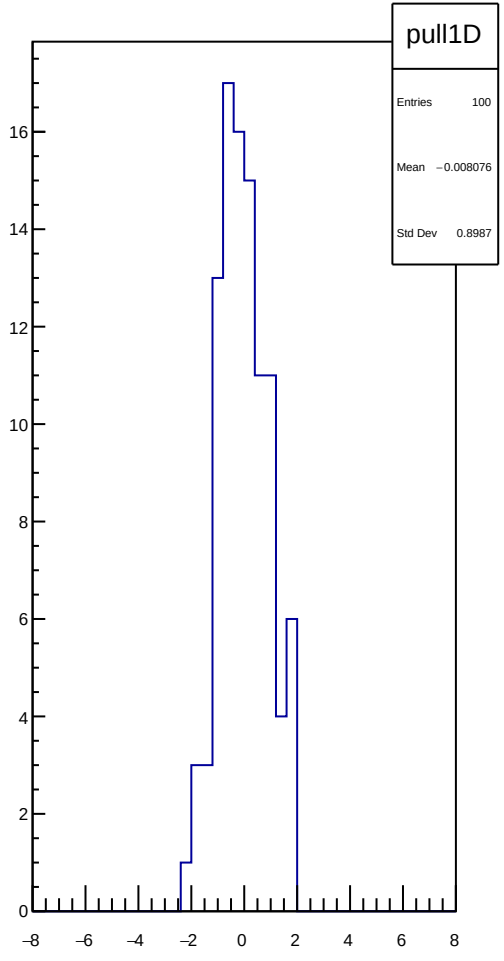

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 1.486e+04 / 99
p0 1758 ± 1.272
2000
1900
1800
1700
1600

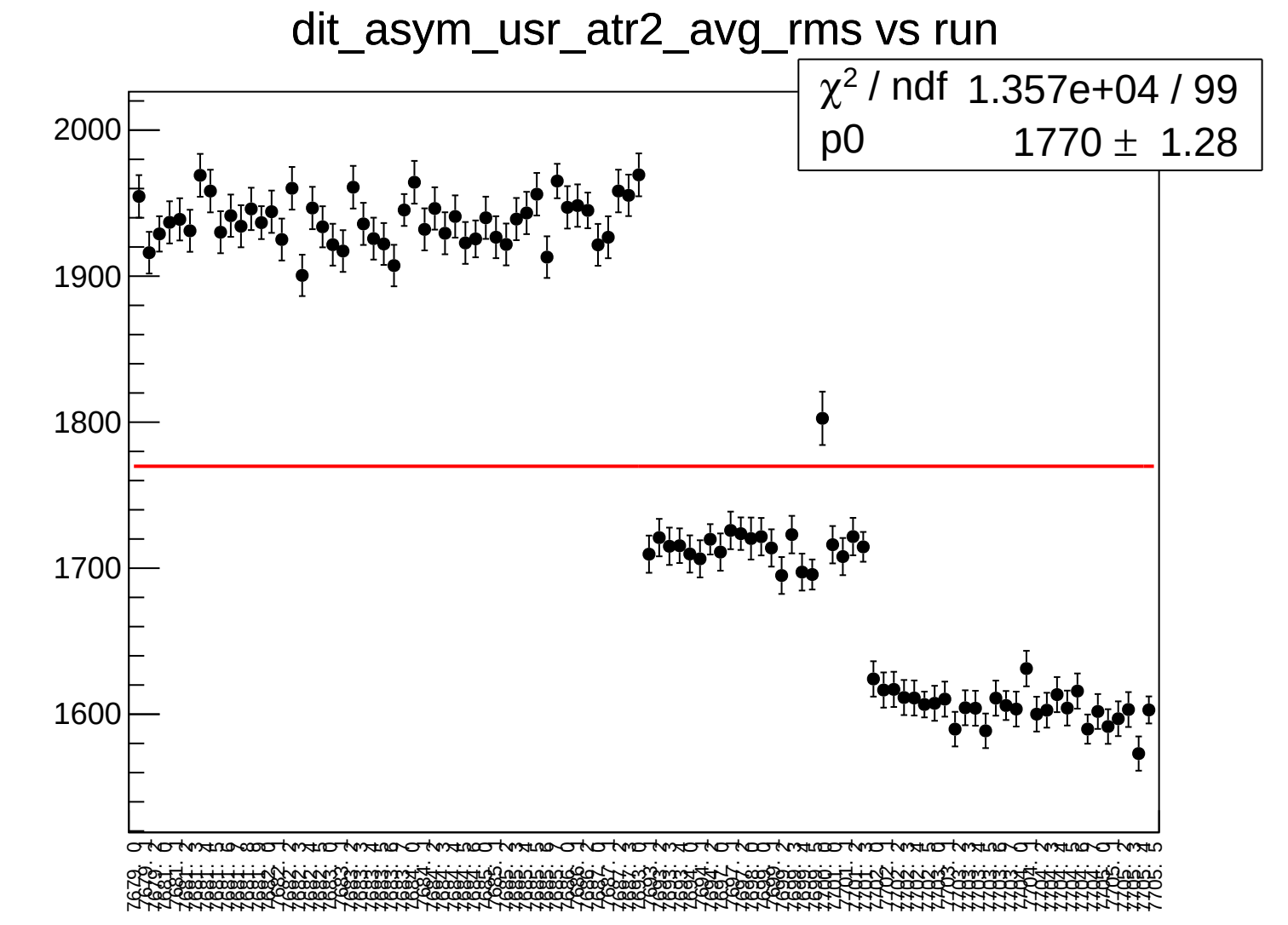

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 99.7 / 99
p0 7954 ± 7270
pull
Entries 100
Mean 533.2
Std Dev 0

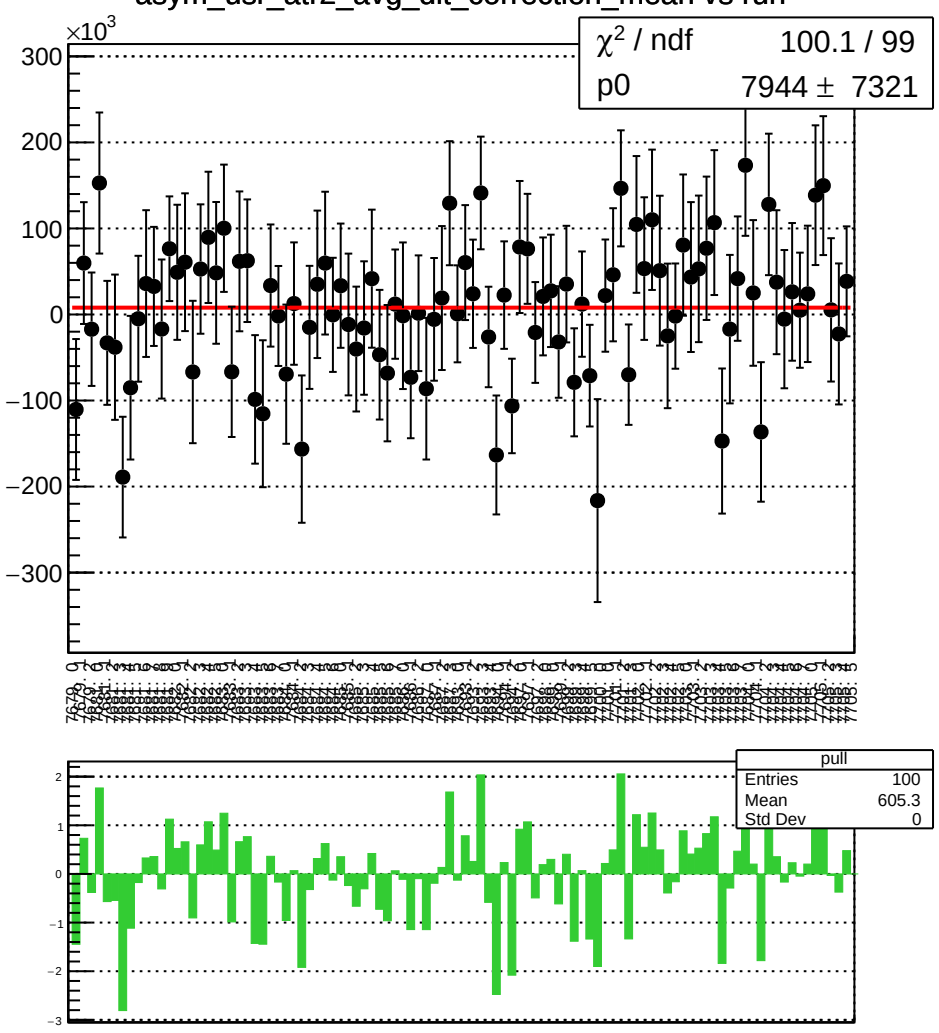

pull1D
Entries 100
Mean 0.01046
Std Dev 0.9985

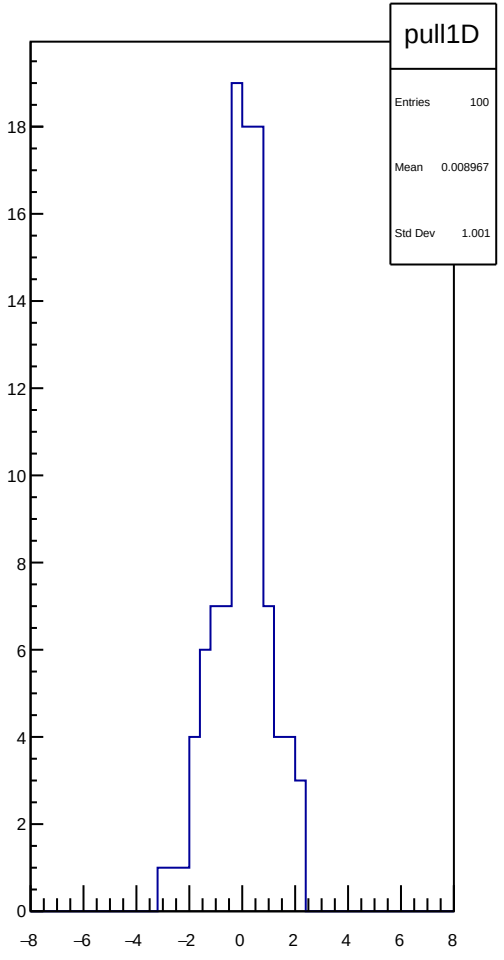

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 2.486e+04 / 99
p0 7087 ± 5.141
8500
8000
7500
7000
6500
6000
5500
5000

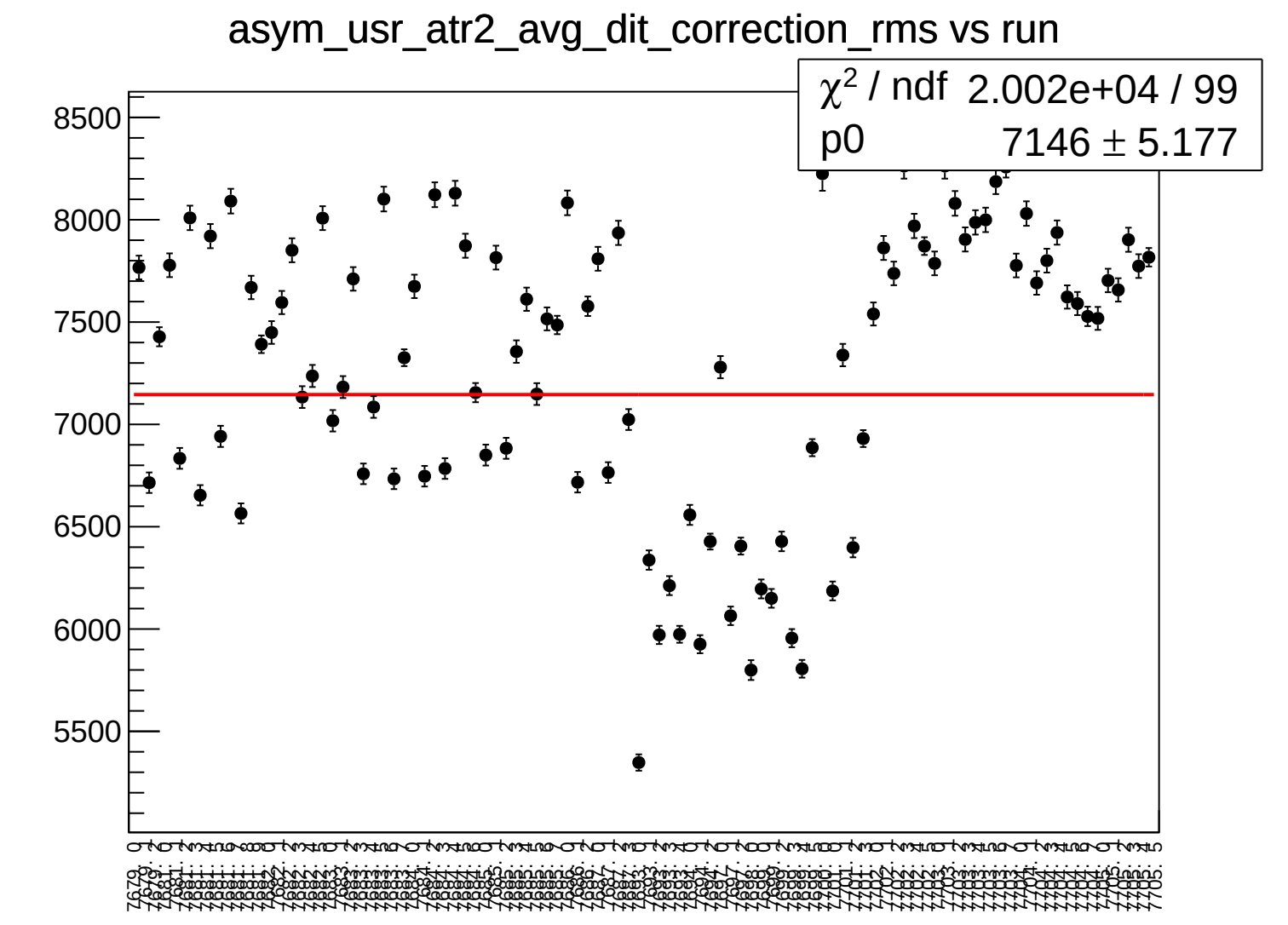

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 80.76 / 99
p0 −1500 ± 1810
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −37.71
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

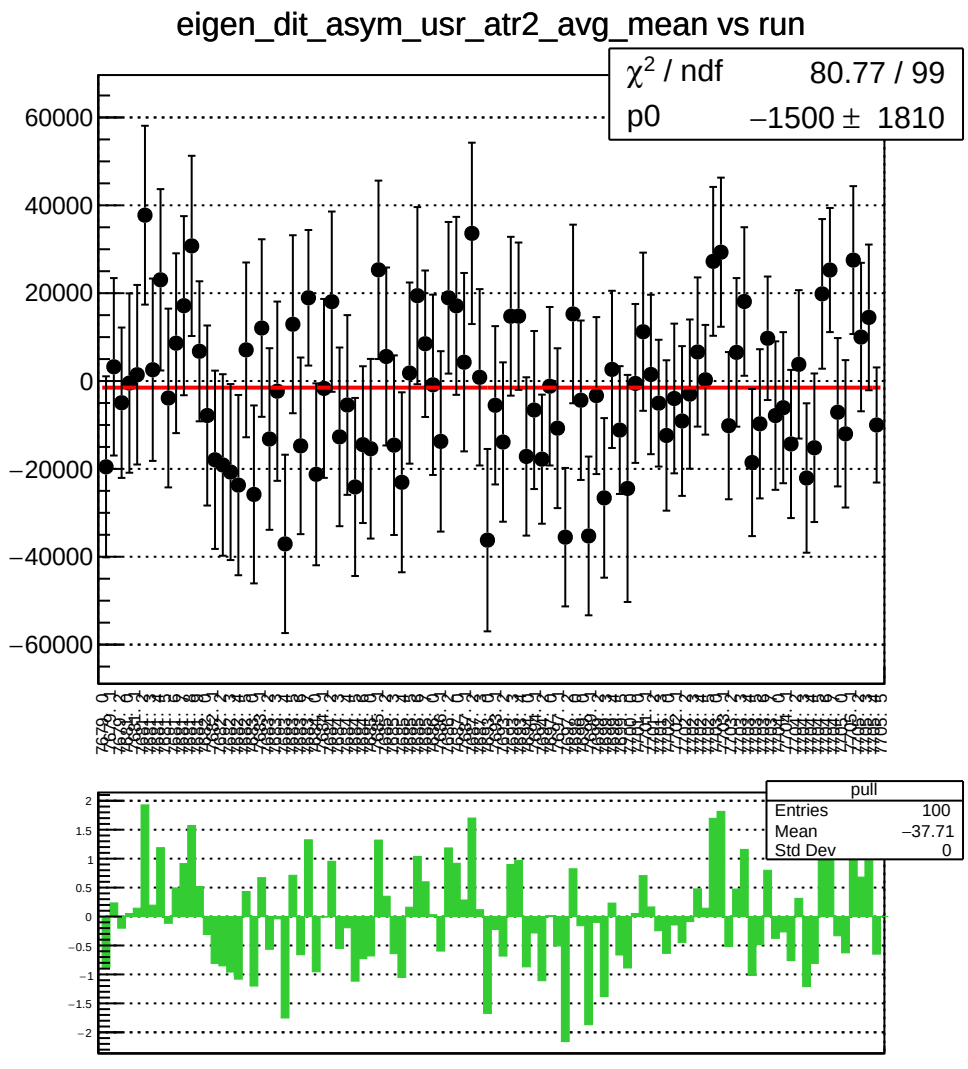

pull1D
Entries 100
Mean −0.008076
Std Dev 0.8987
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

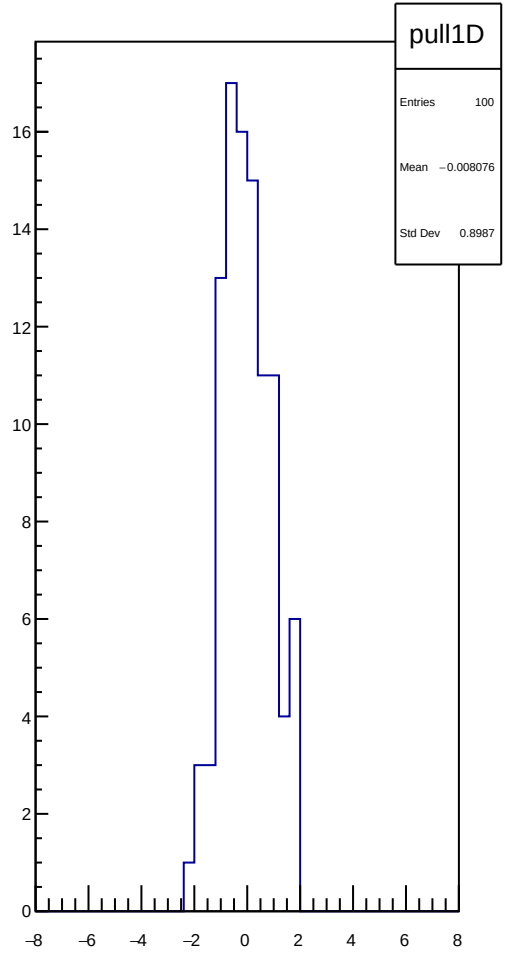

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 1.357e+04 / 99
p0 1770 ± 1.28
2000
1900
1800
1700
1600

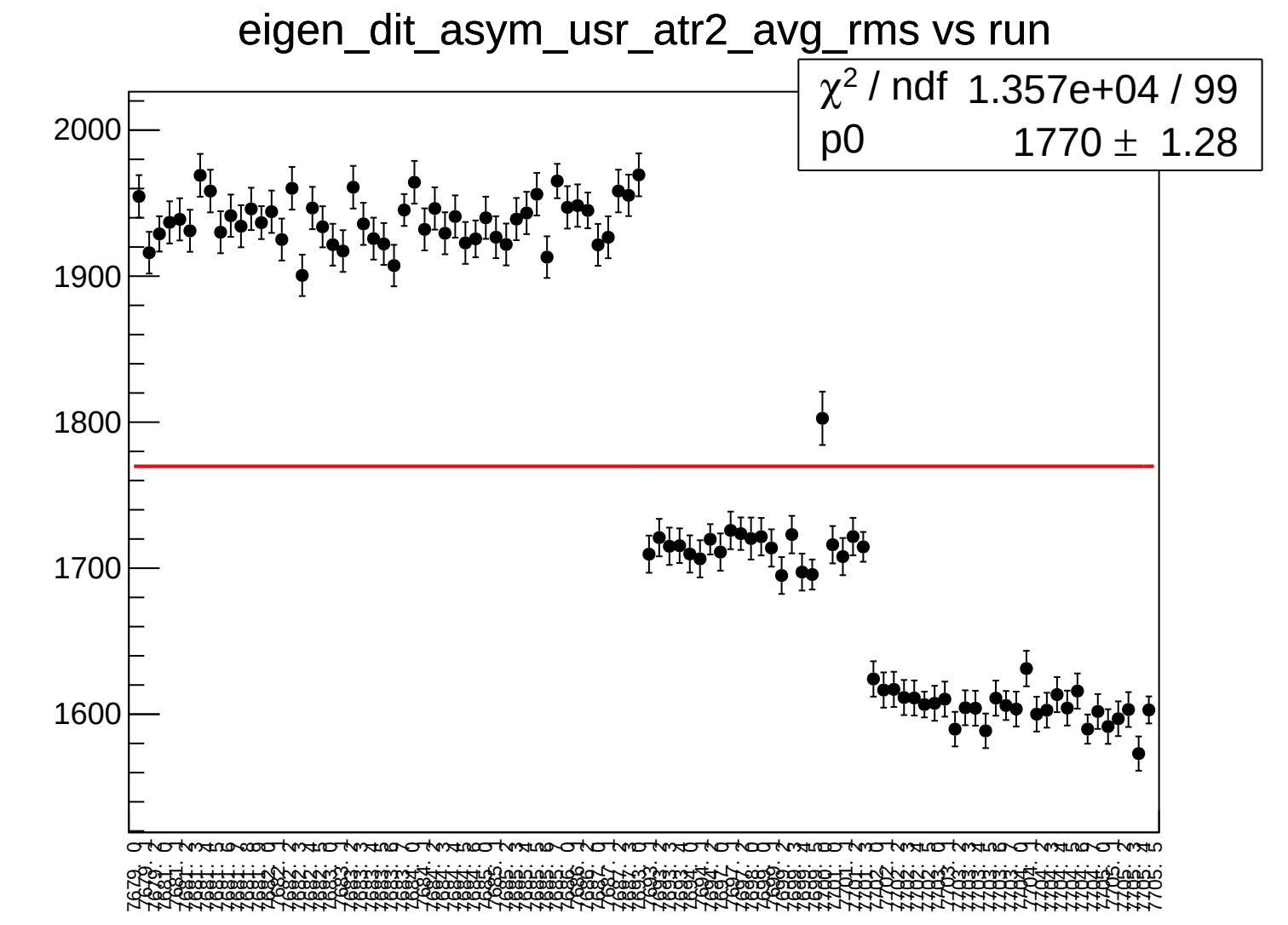

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 100.1 / 99
p0 7944 ± 7321
pull
Entries 100
Mean 605.3
Std Dev 0

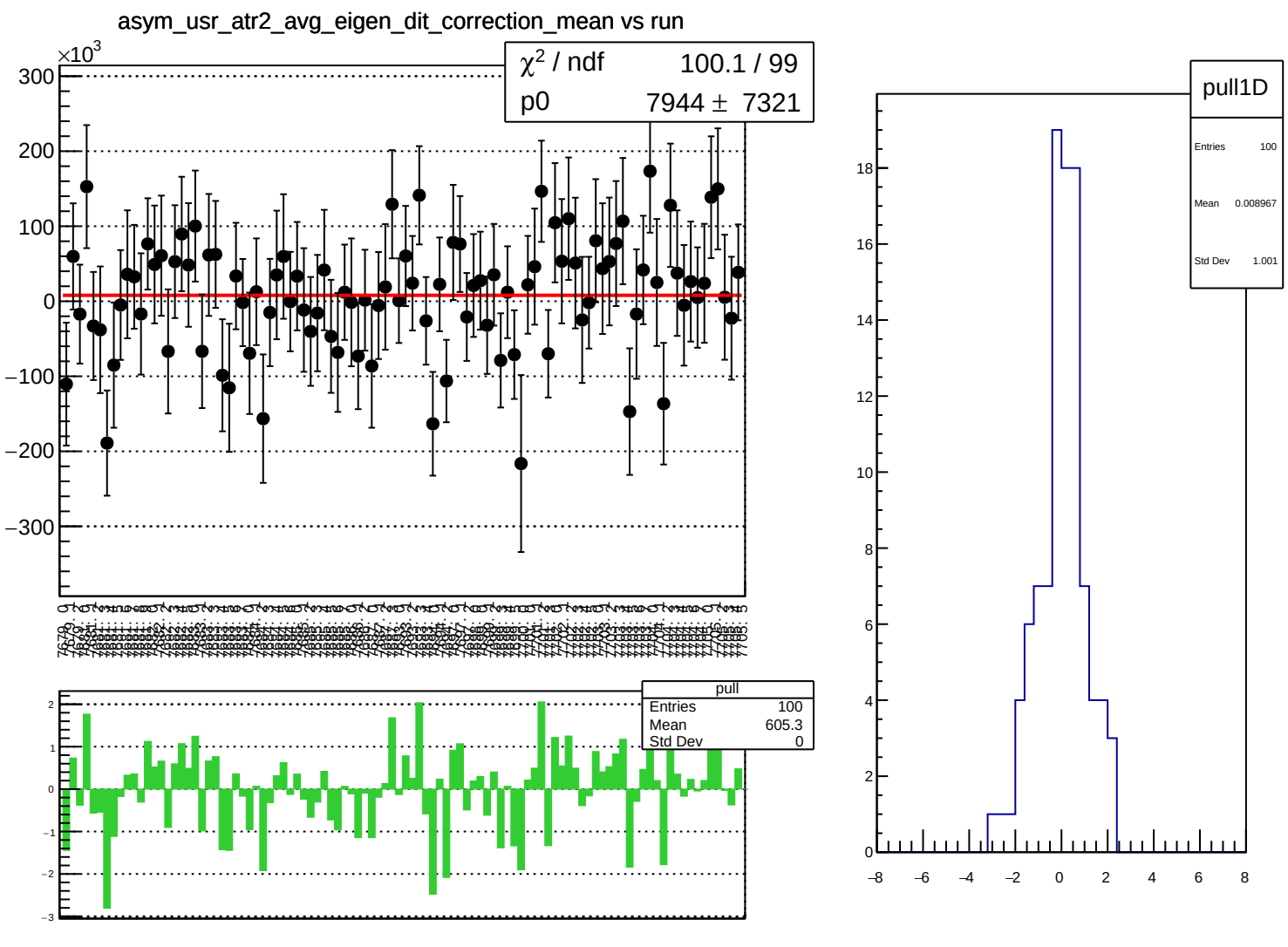

pull1D
Entries 100
Mean 0.008967
Std Dev 1.001

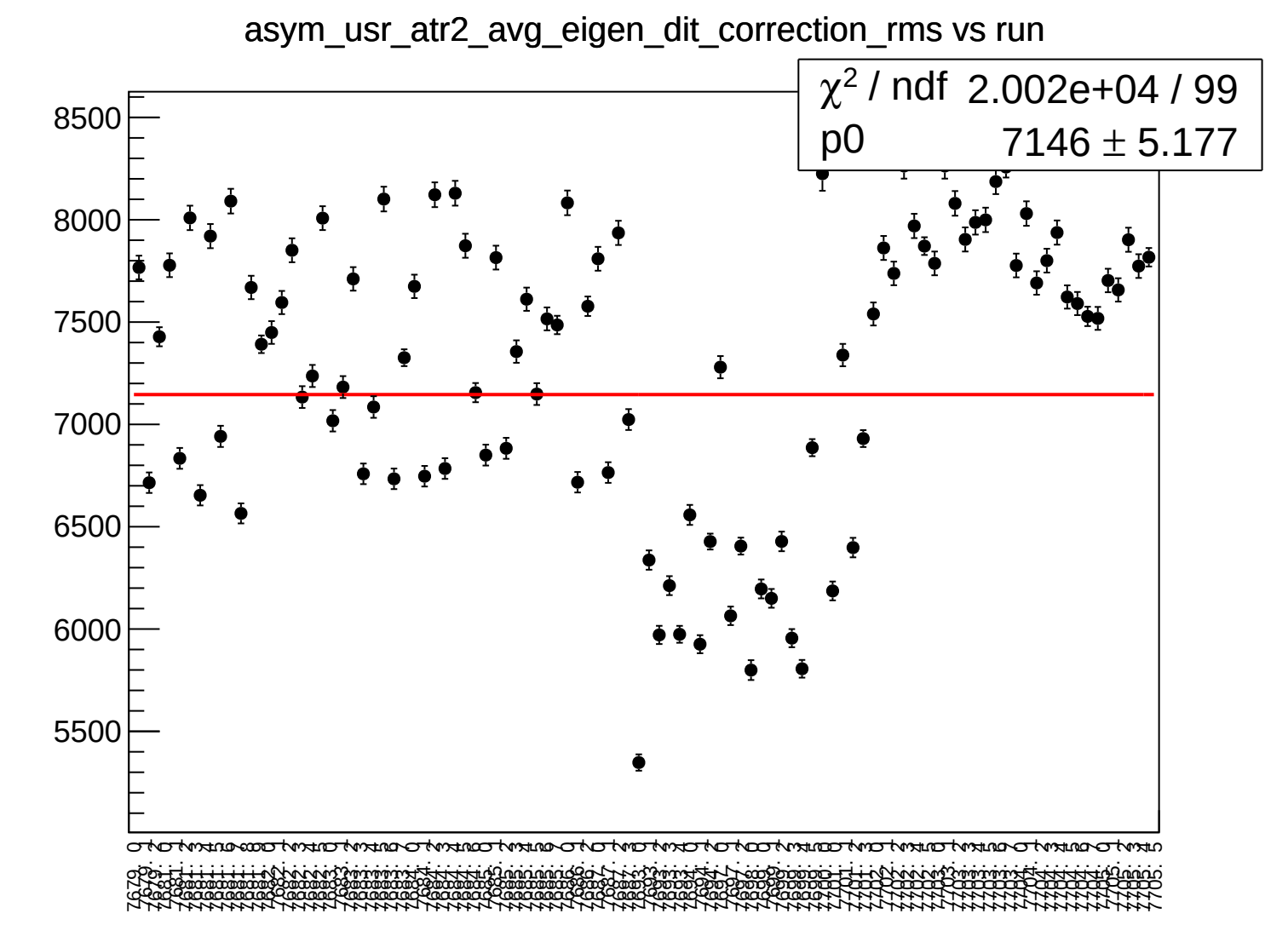

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 2.002e+04 / 99
p0 7146 ± 5.177
8500
8000
7500
7000
6500
6000
5500

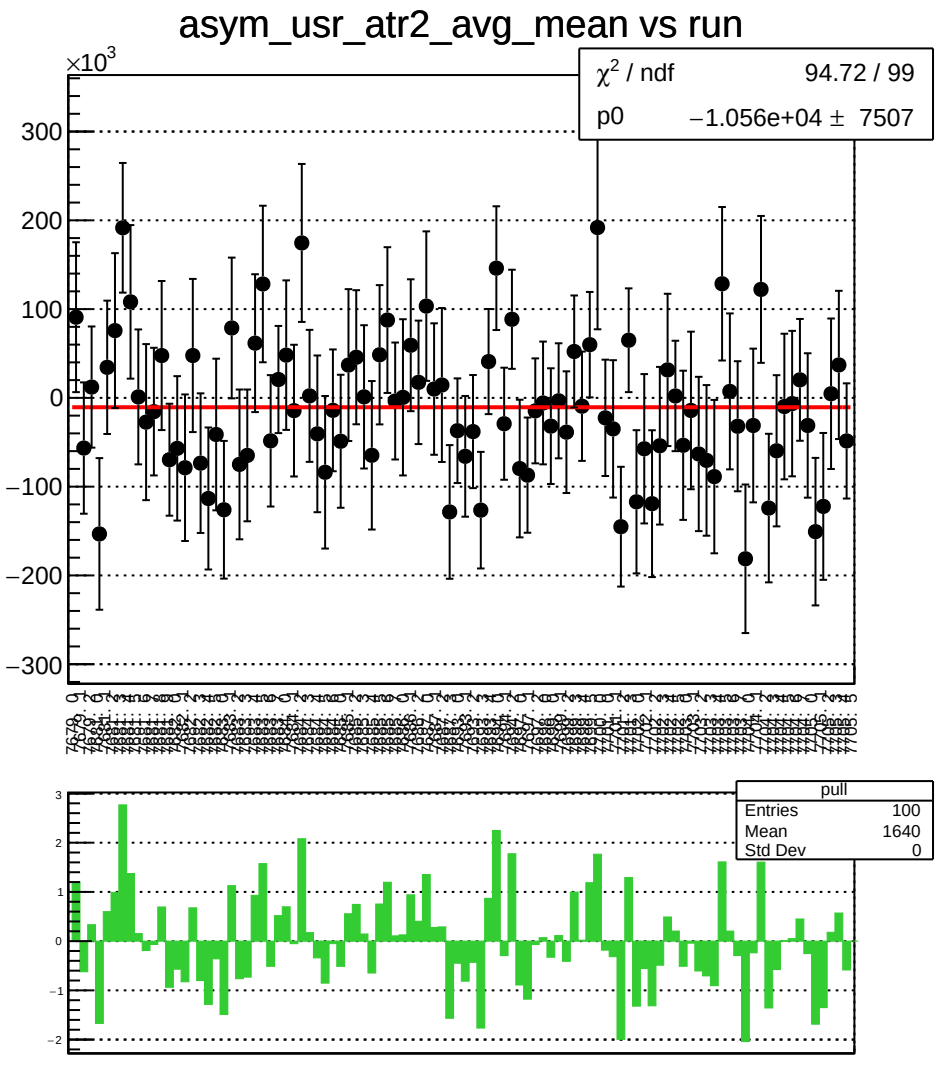

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 80.77 / 99
p0 −1500 ± 1810
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −37.71
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

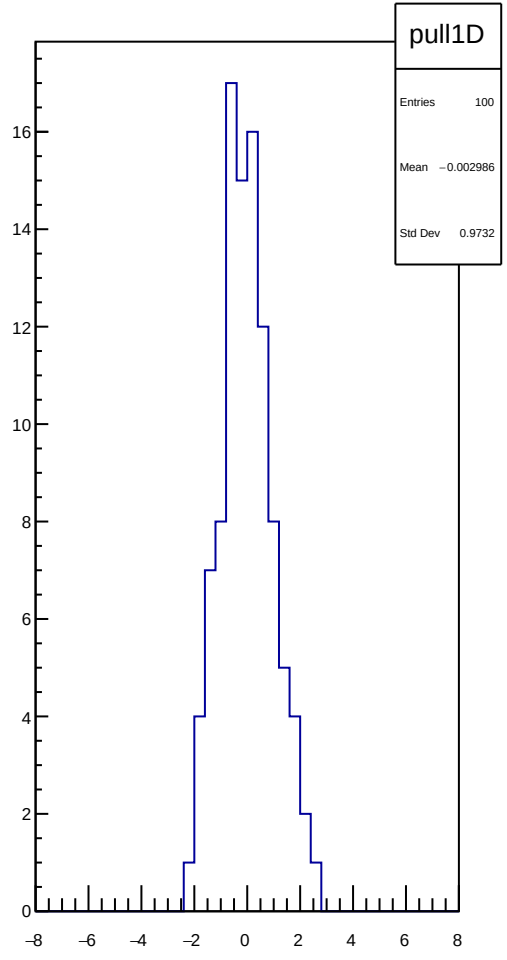

pull1D
Entries 100
Mean −0.008076
Std Dev 0.8987
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

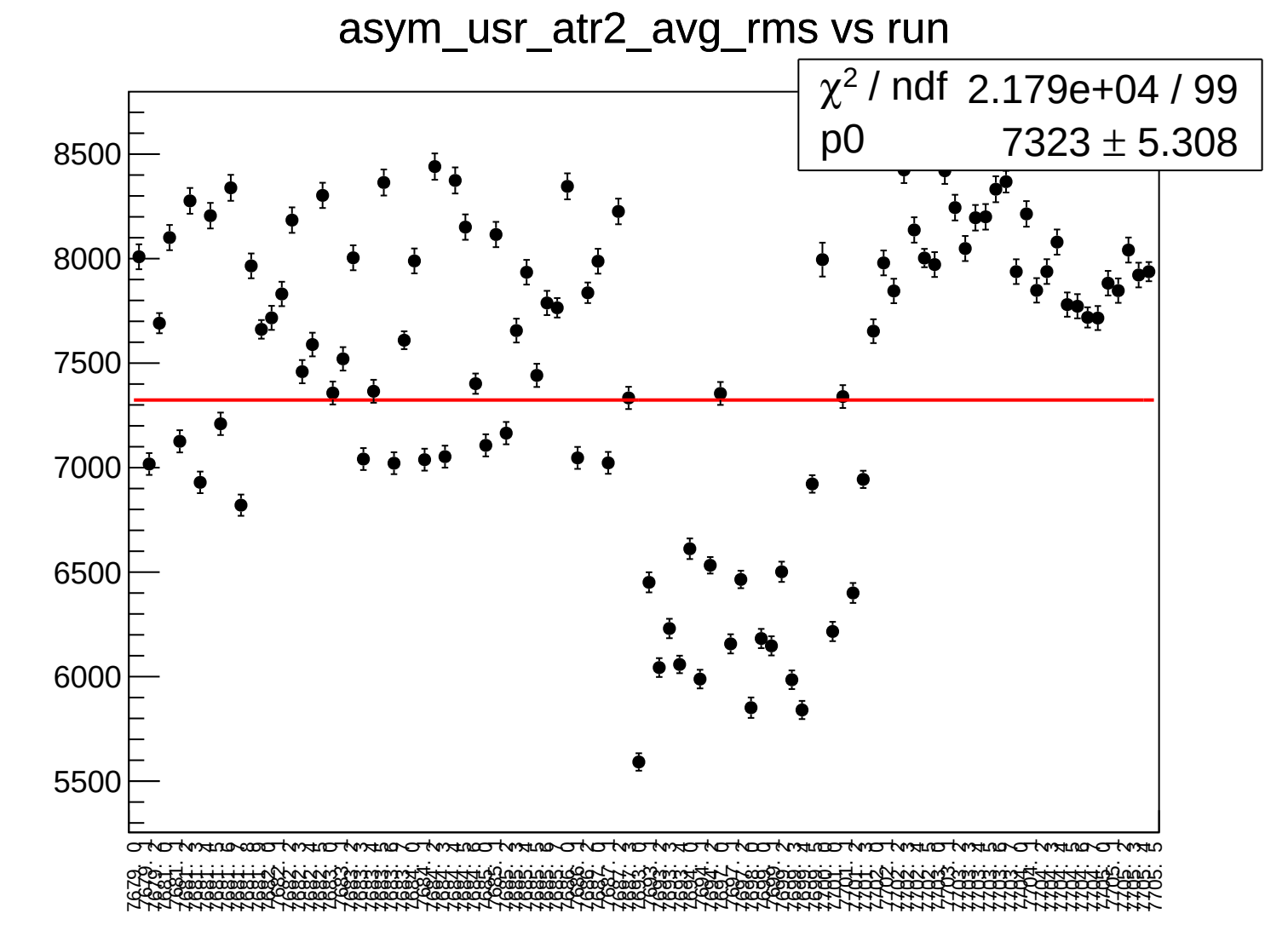

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 1.357e+04 / 99
p0 1770 ± 1.28
2000
1900
1800
1700
1600

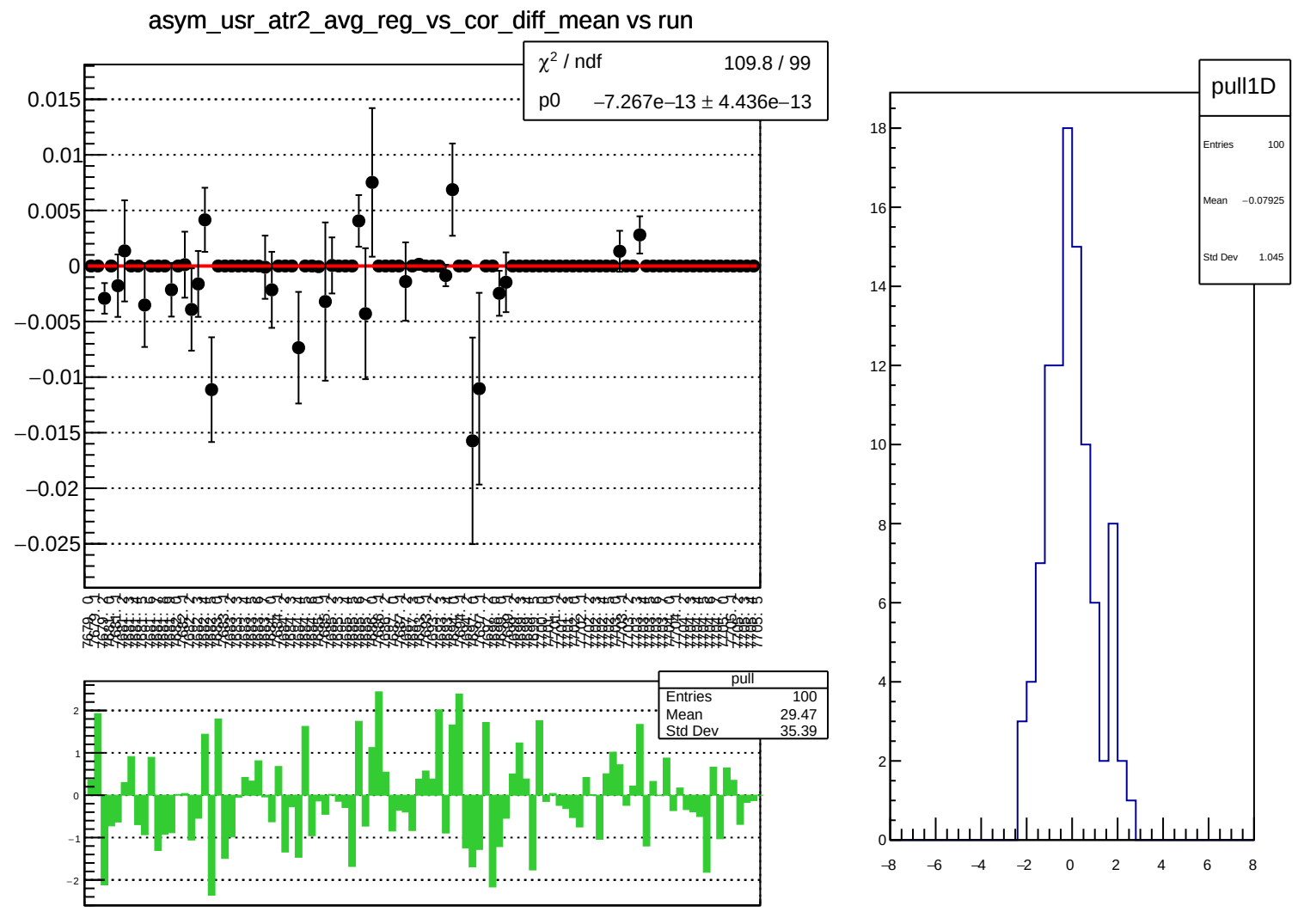

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 100.1 / 99
p0 7944 ± 7321
pull
Entries 100
Mean 605.3
Std Dev 0
pull1D
Entries 100
Mean 0.008967
Std Dev 1.001

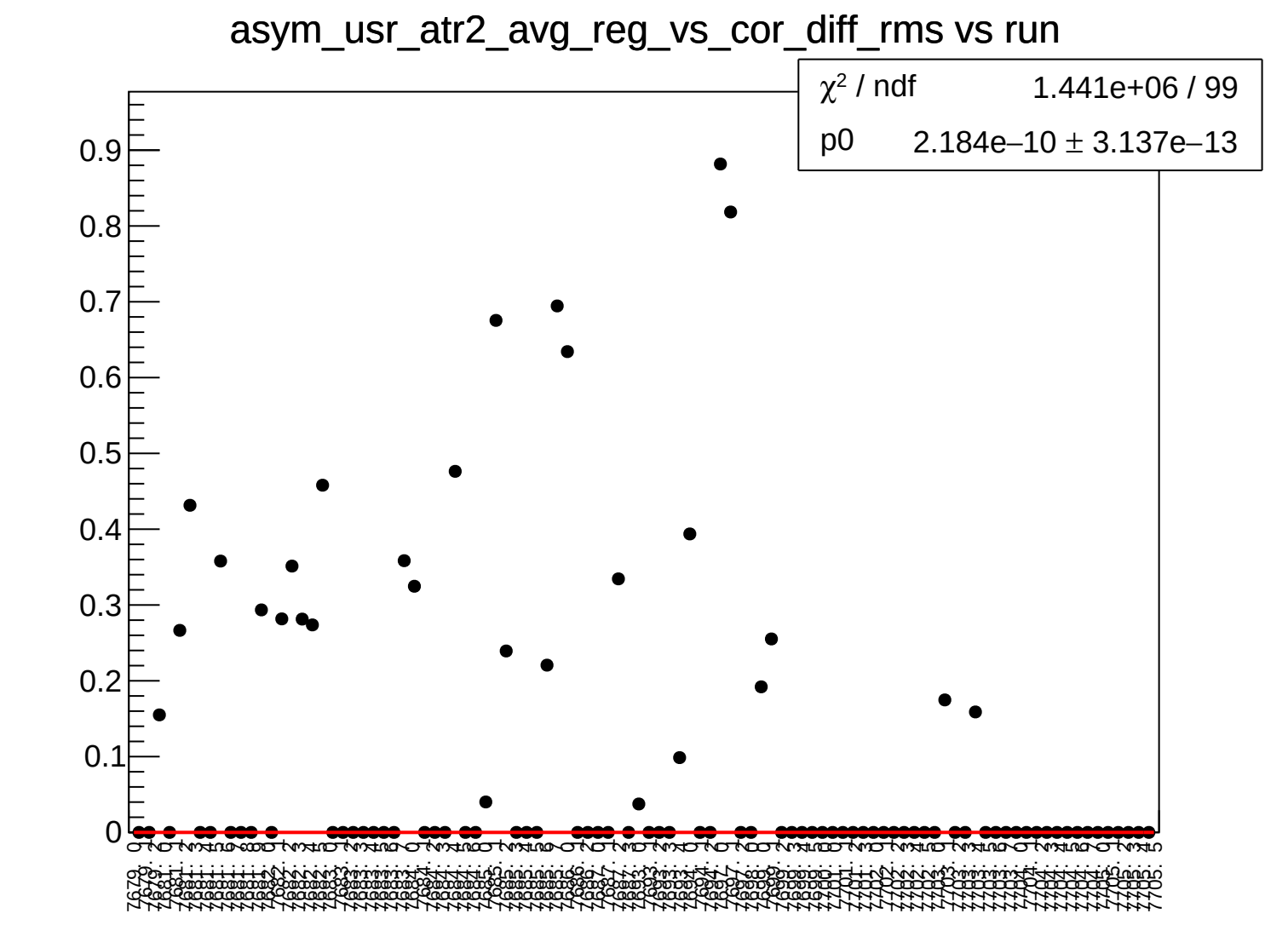

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.002e+04 / 99
p0 7146 ± 5.177
8500
8000
7500
7000
6500
6000
5500

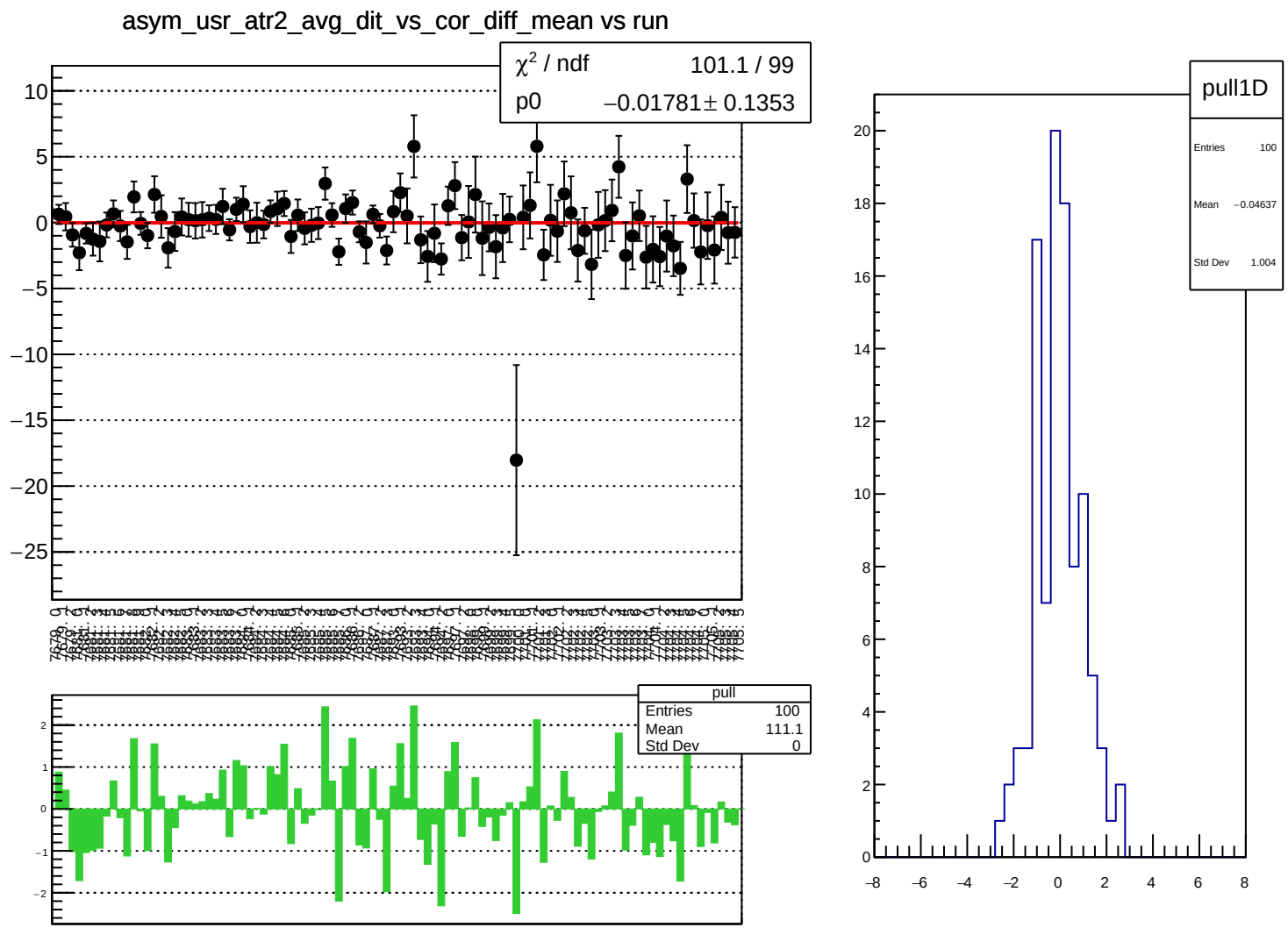

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 94.72 / 99
p0 −1.056e+04 ± 7507
300
200
100
0
−100
−200
−300
pull
Entries 100
Mean 1640
Std Dev 0
3
2
1
0
−1
−2

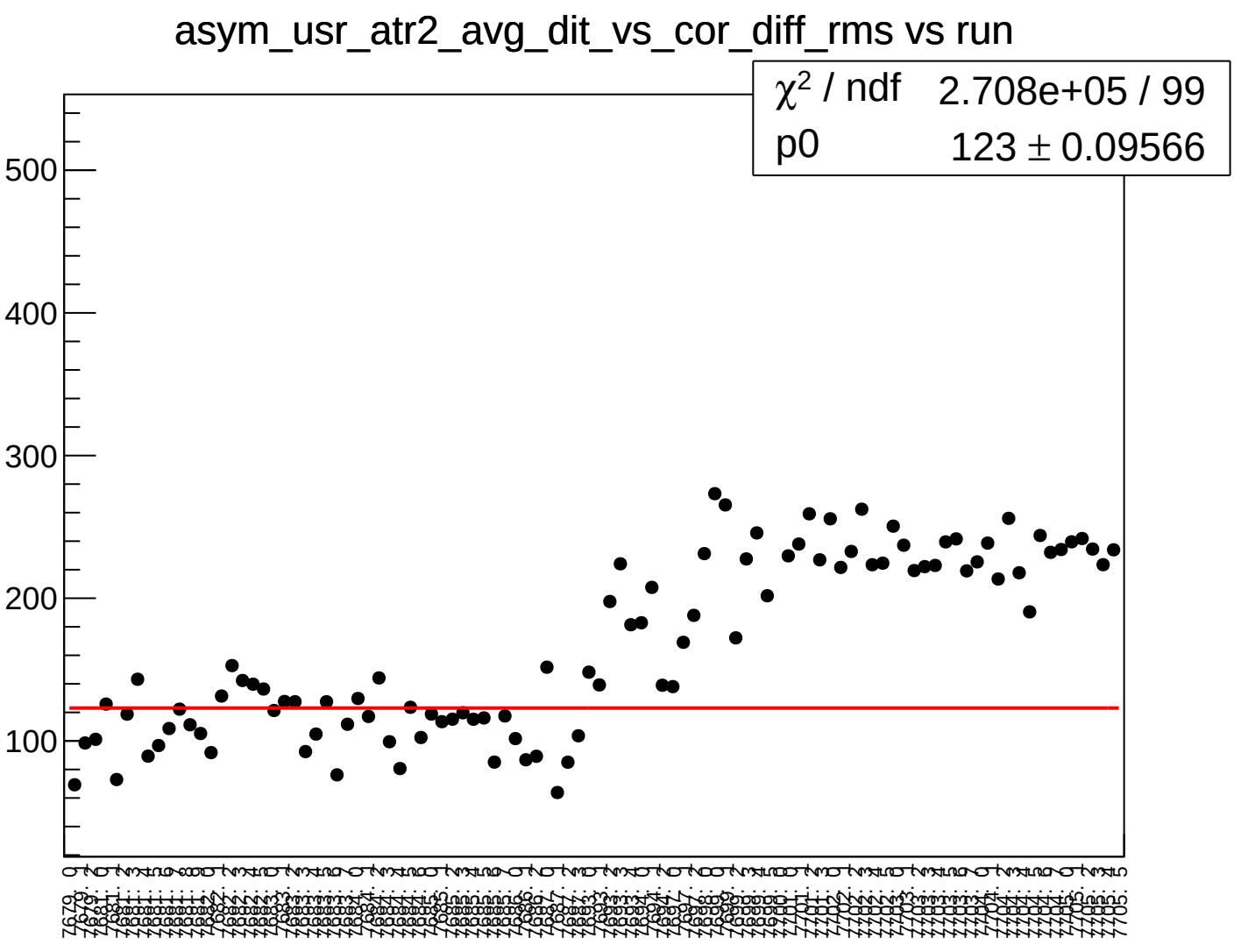

pull1D
Entries 100
Mean −0.002986
Std Dev 0.9732
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

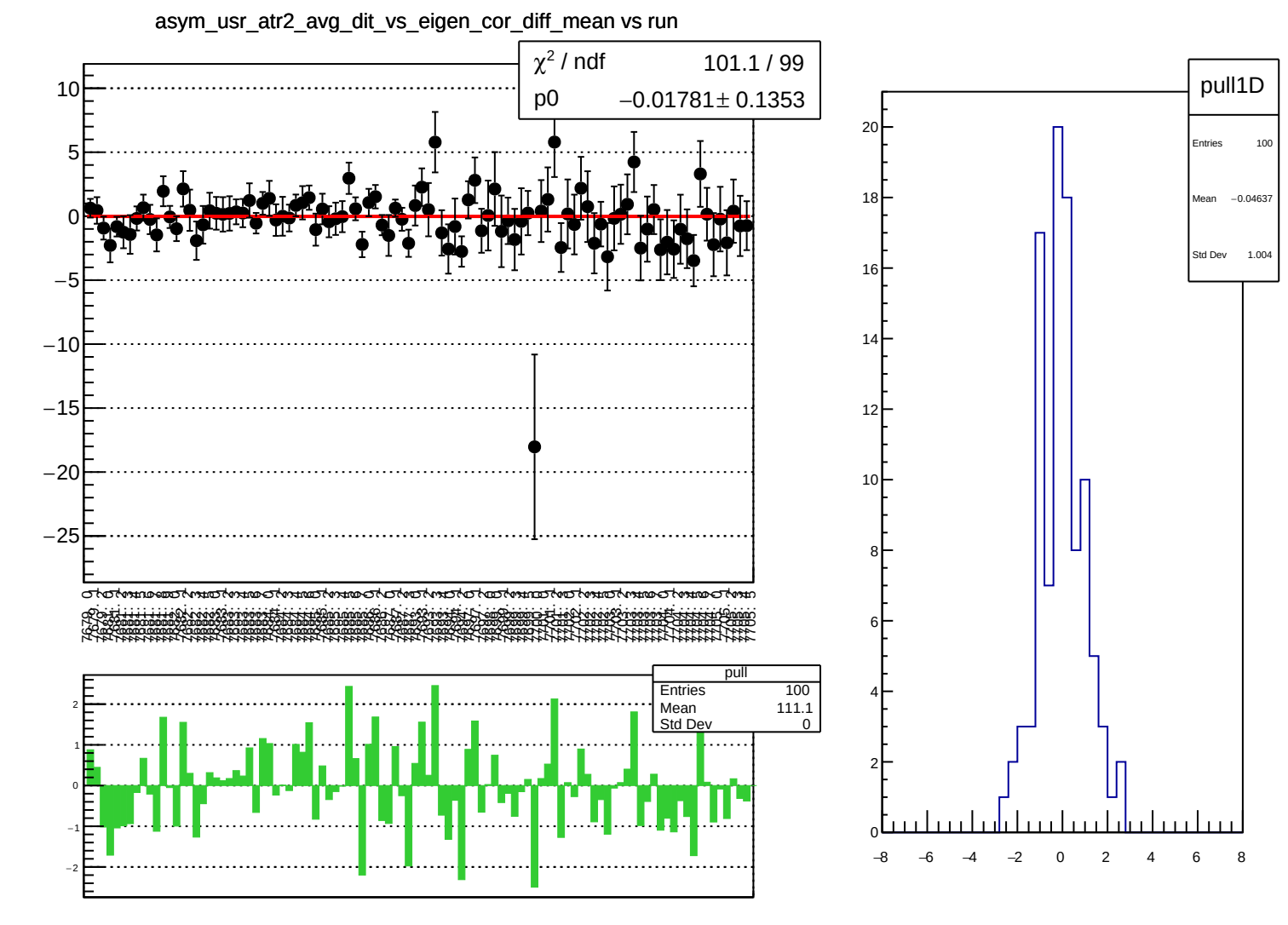

asym_usr_atr2_avg_rms vs run
χ^2 / ndf 2.179e+04 / 99
p0 7323 ± 5.308
8500
8000
7500
7000
6500
6000
5500

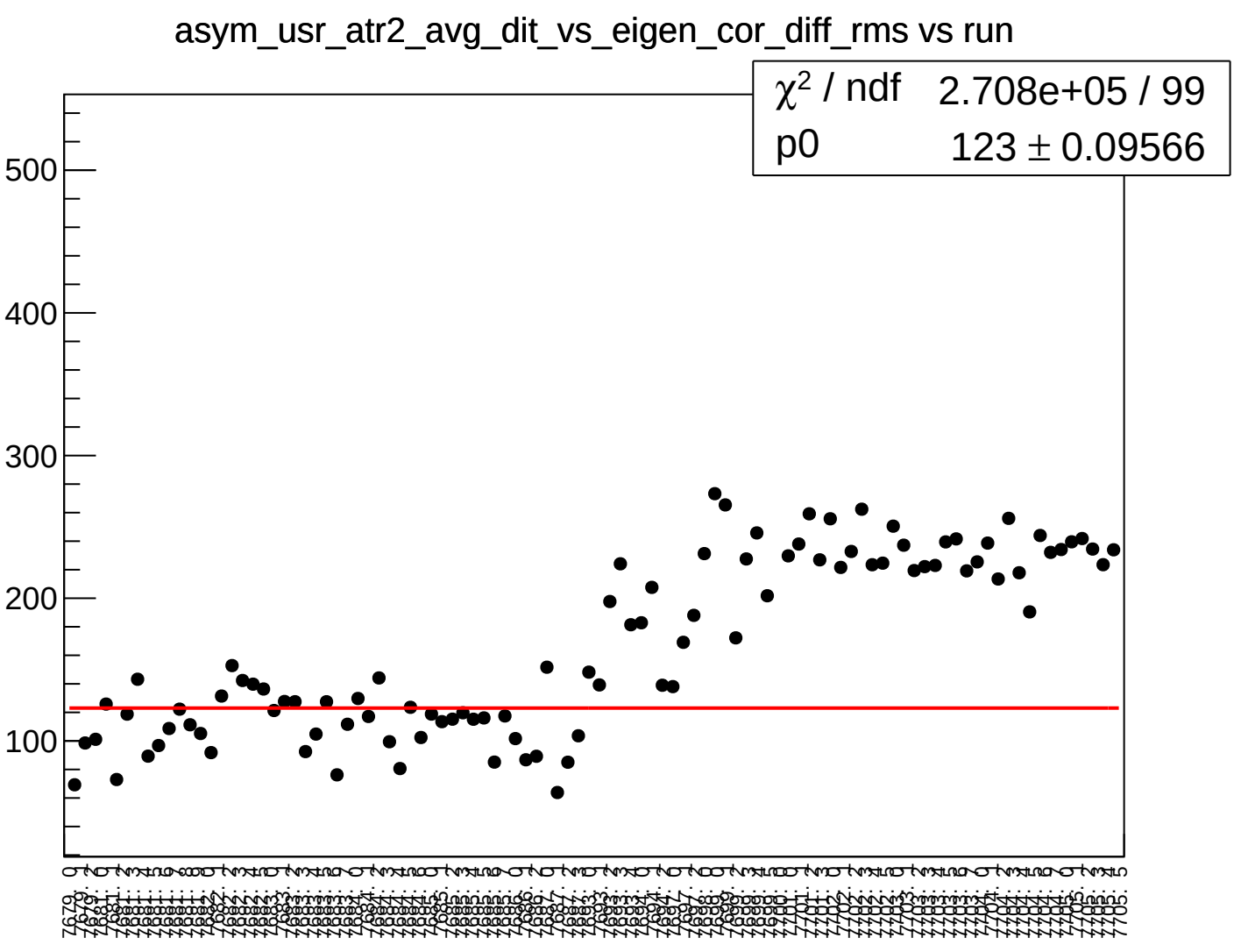

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 109.8 / 99
p0 −7.267e−13 ± 4.436e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
pull
Entries 100
Mean 29.47
Std Dev 35.39
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.07925
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

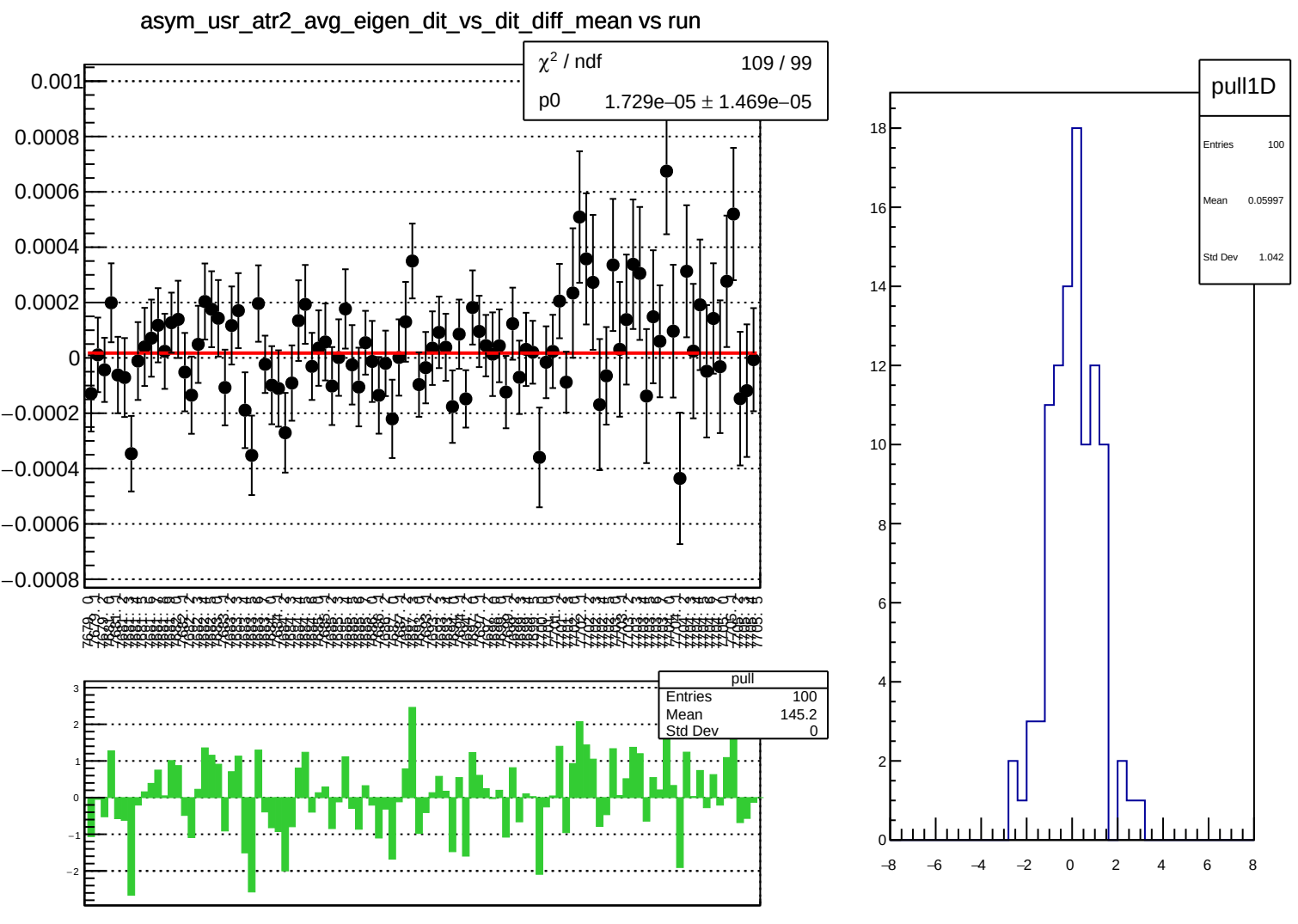

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.441e+06 / 99
p0 2.184e−10 ± 3.137e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

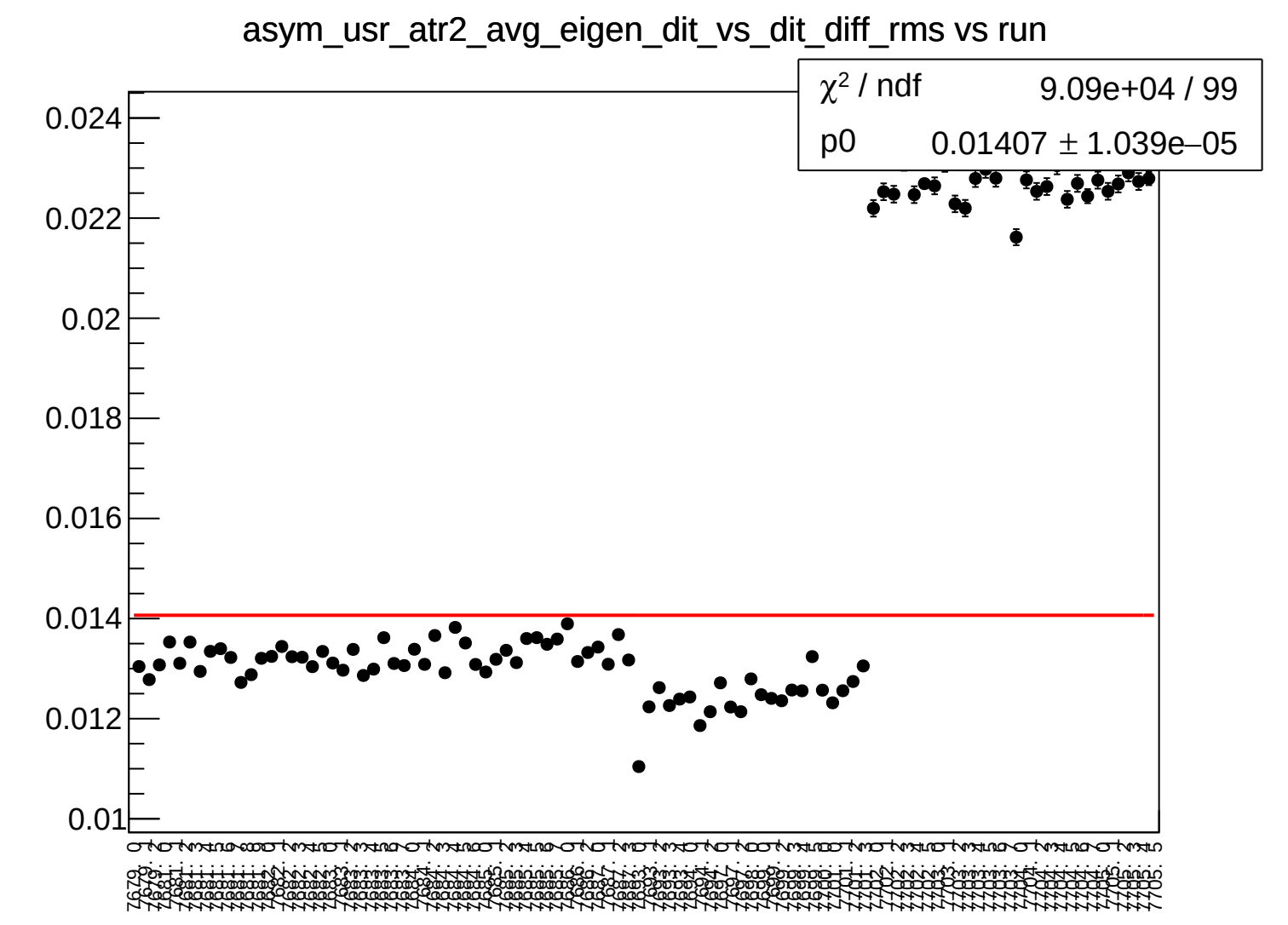

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 101.1 / 99
p0 −0.01781 ± 0.1353
pull
Entries 100
Mean 111.1
Std Dev 0
pull1D
Entries 100
Mean −0.04637
Std Dev 1.004

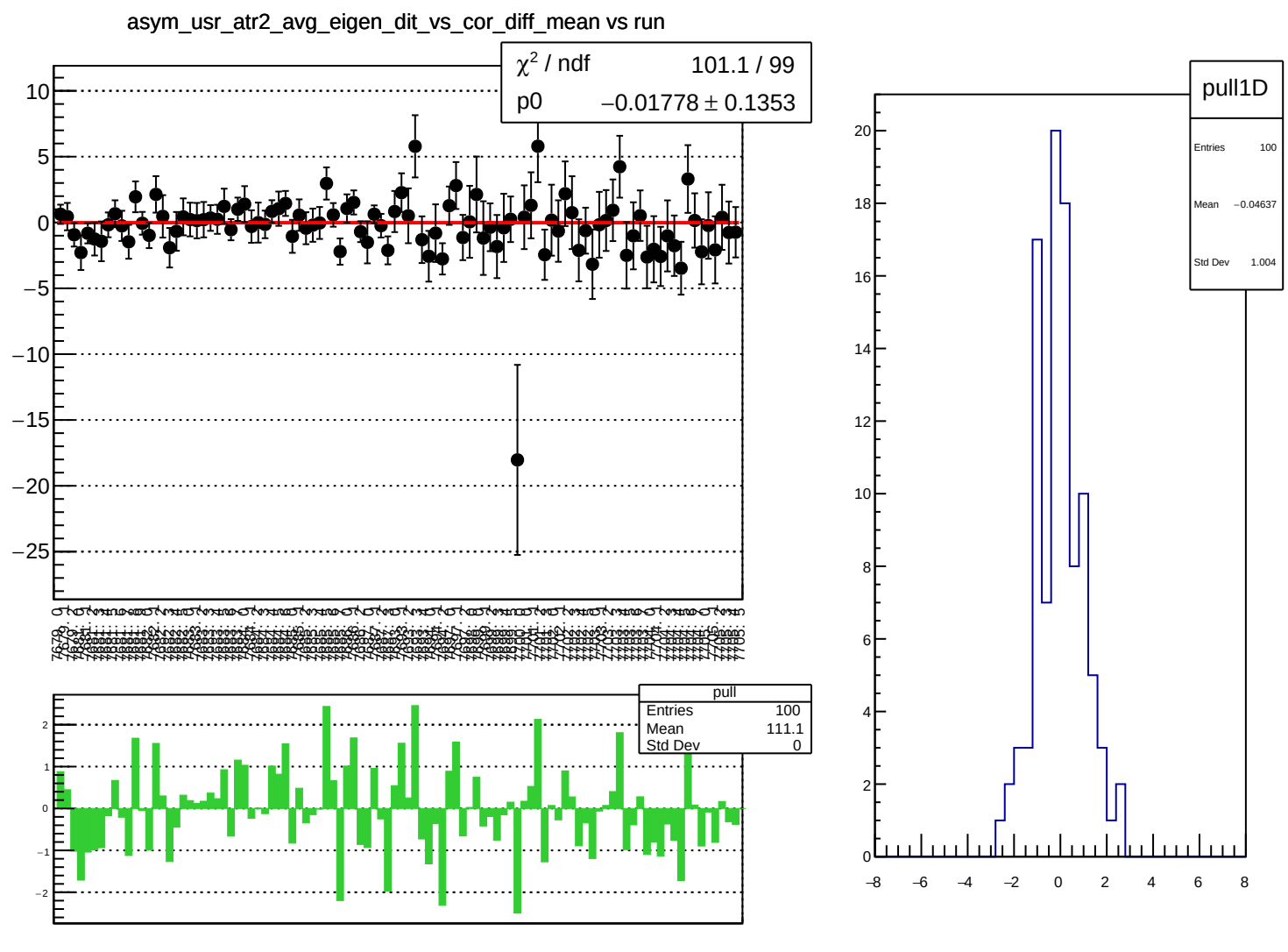

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.708e+05 / 99
p0 123 ± 0.09566
500
400
300
200
100

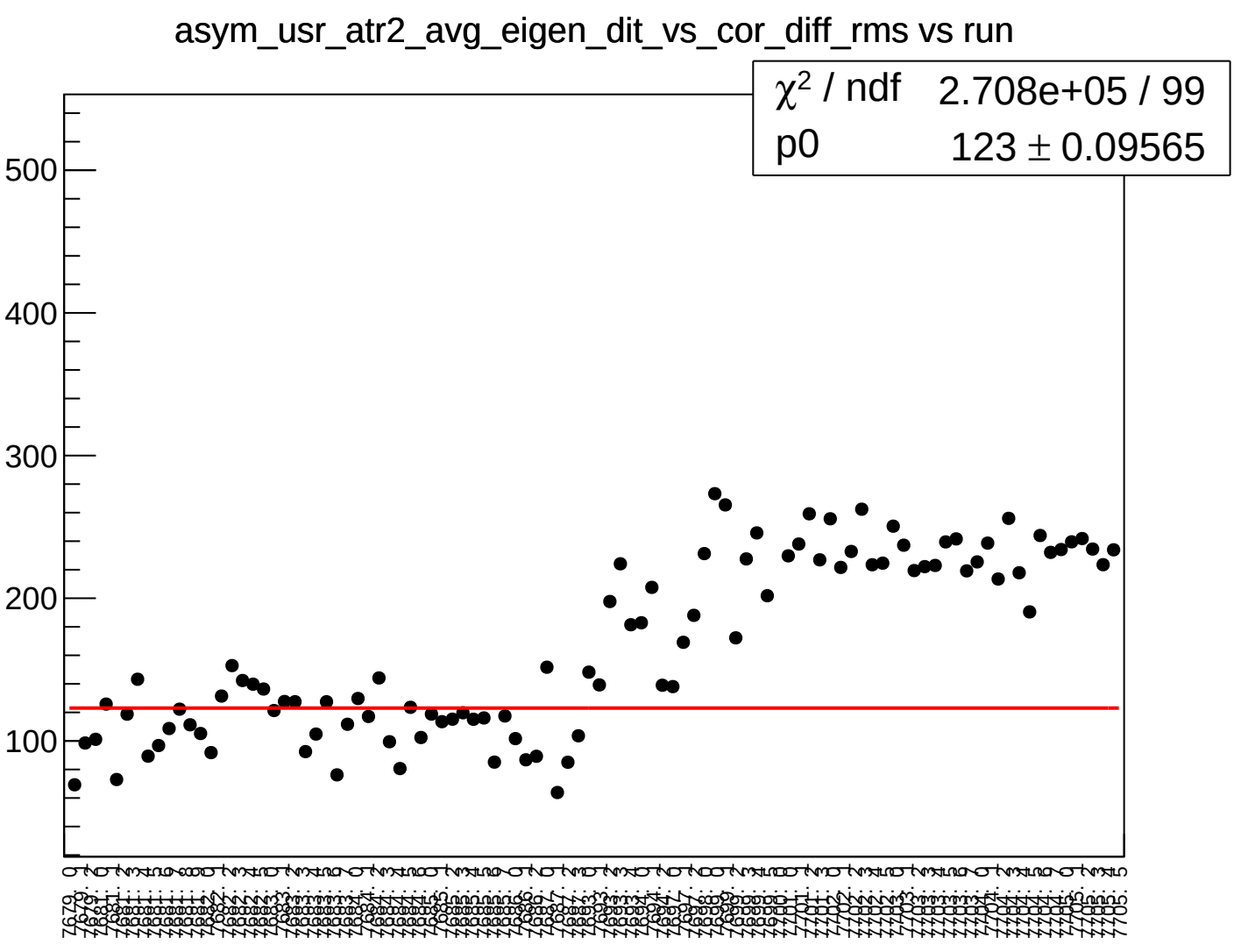

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.1 / 99
p0 −0.01781 ± 0.1353
pull
Entries 100
Mean 111.1
Std Dev 0
pull1D
Entries 100
Mean −0.04637
Std Dev 1.004

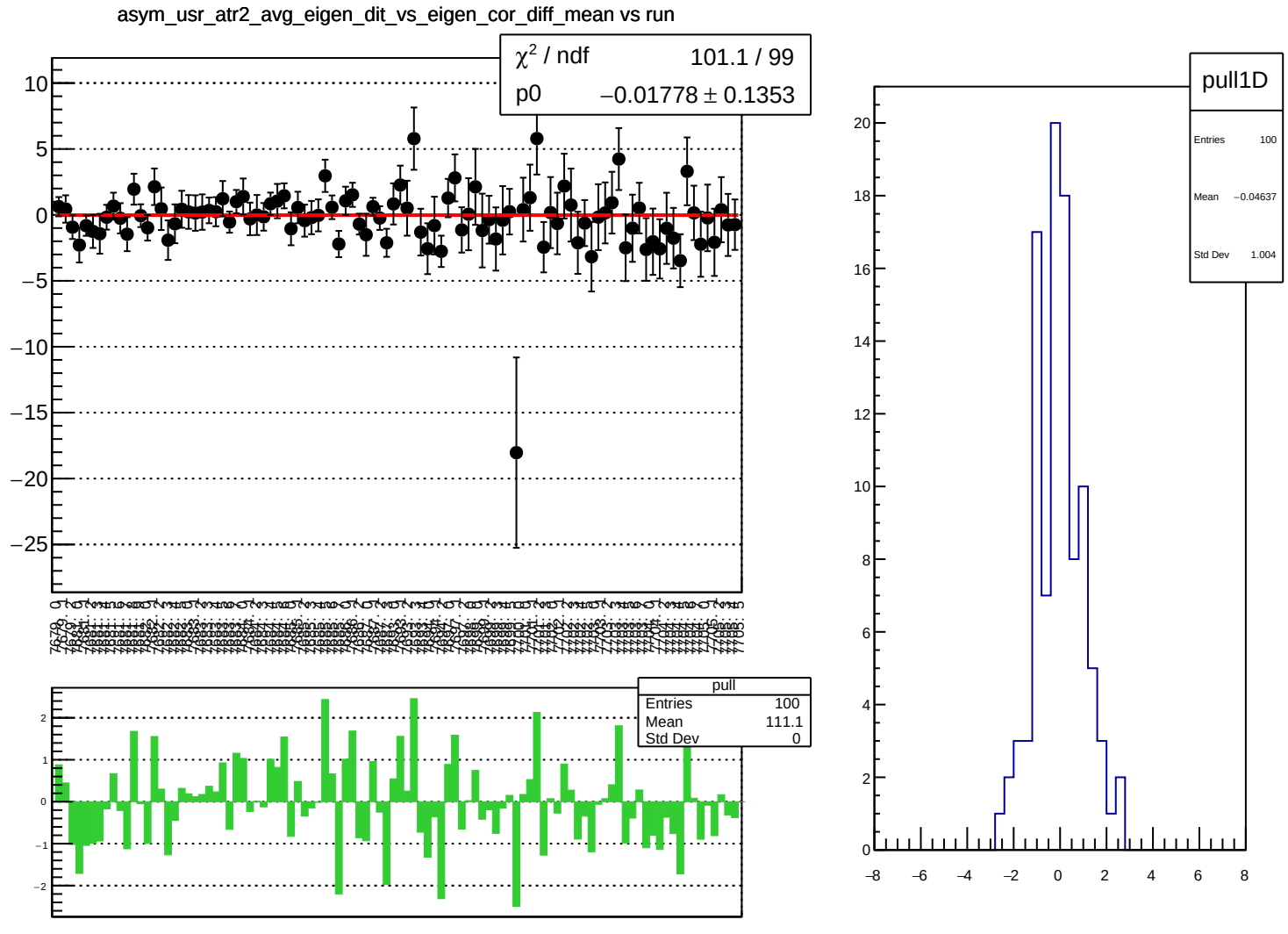

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.708e+05 / 99
p0 123 ± 0.09566
500
400
300
200
100

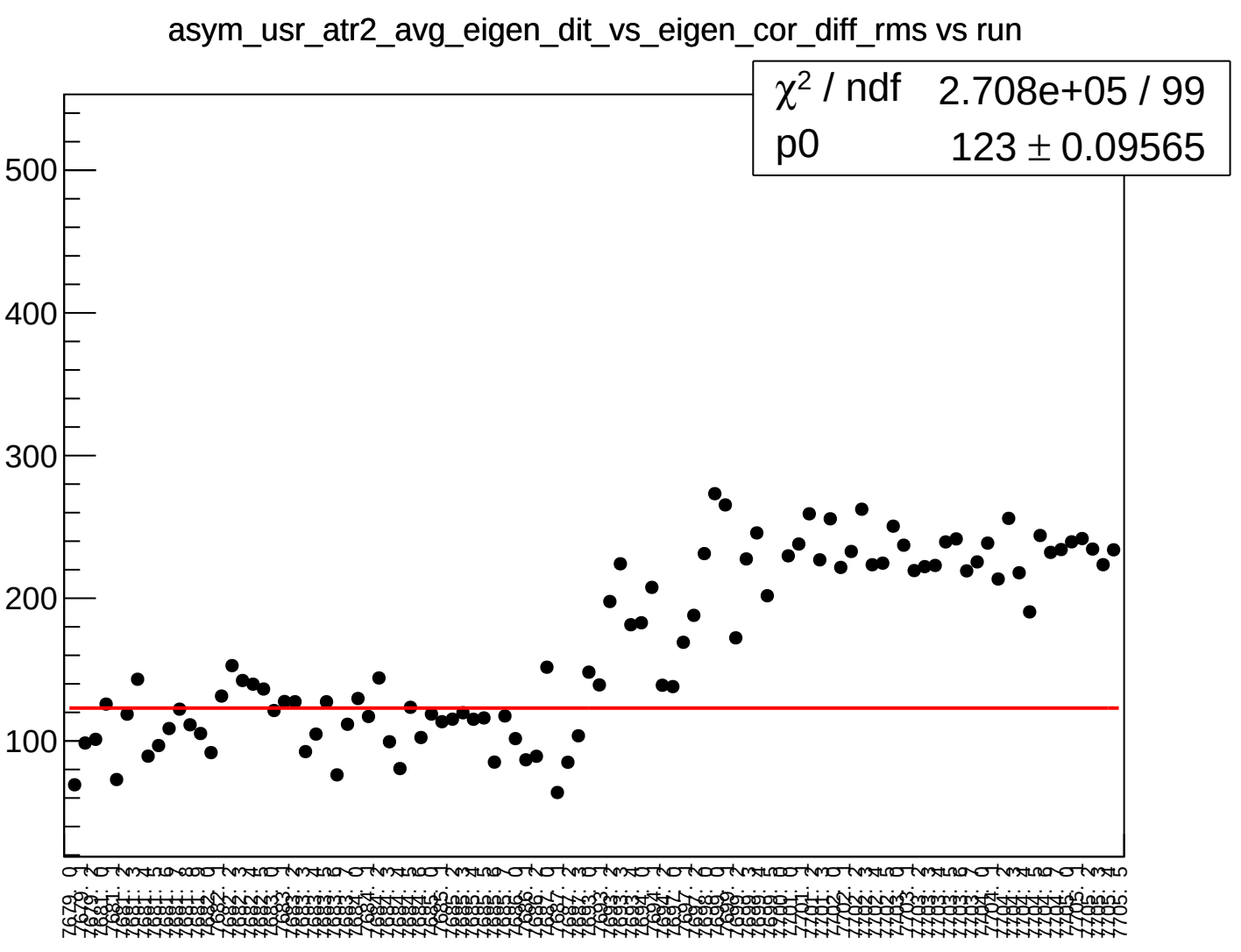

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 109 / 99
p0 1.729e−05 ± 1.469e−05
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 100
Mean 145.2
Std Dev 0
pull1D
Entries 100
Mean 0.05997
Std Dev 1.042

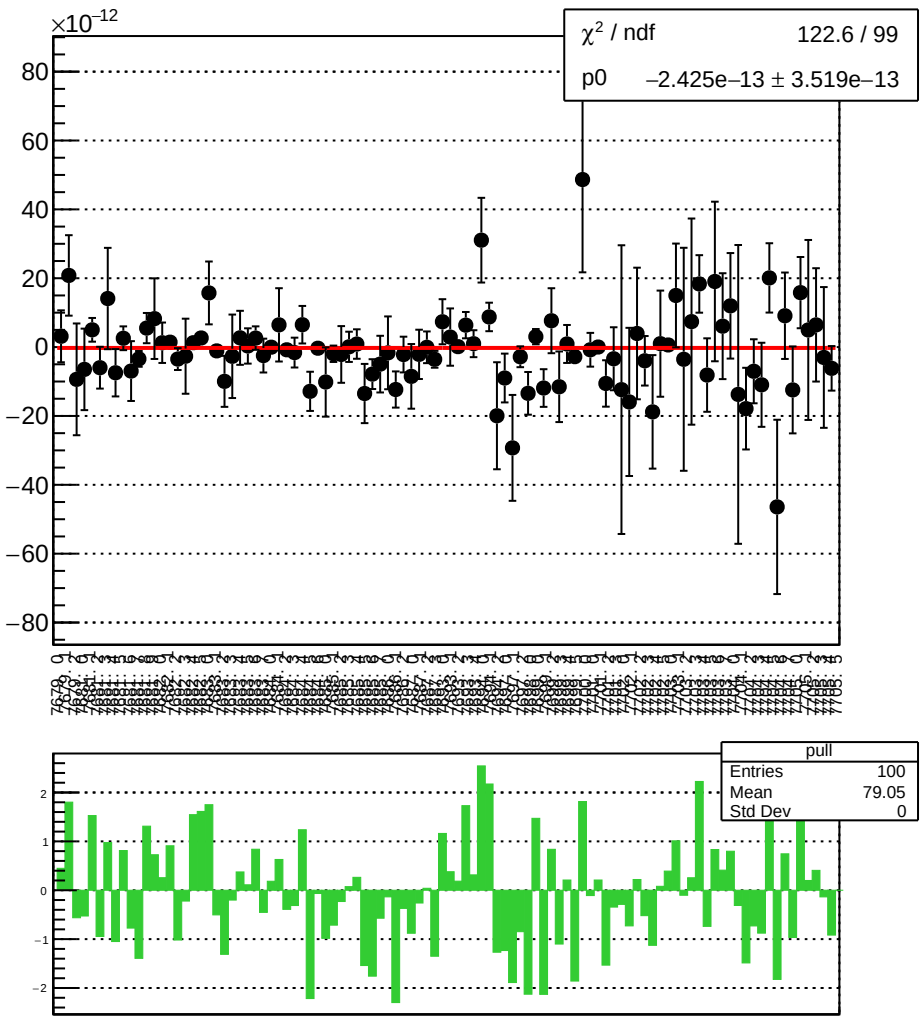

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.09e+04 / 99
p0 0.01407 ± 1.039e−05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

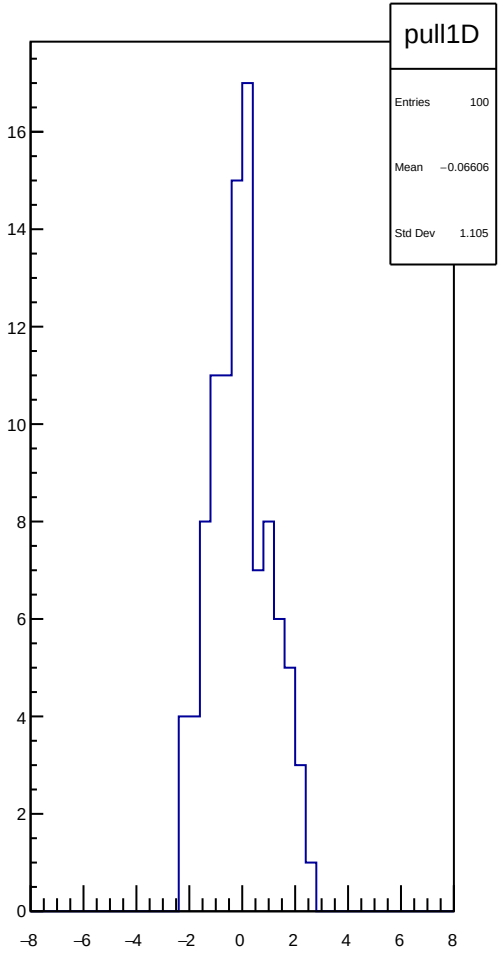

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.1 / 99
p0 −0.01778 ± 0.1353
pull
Entries 100
Mean 111.1
Std Dev 0
pull1D
Entries 100
Mean −0.04637
Std Dev 1.004

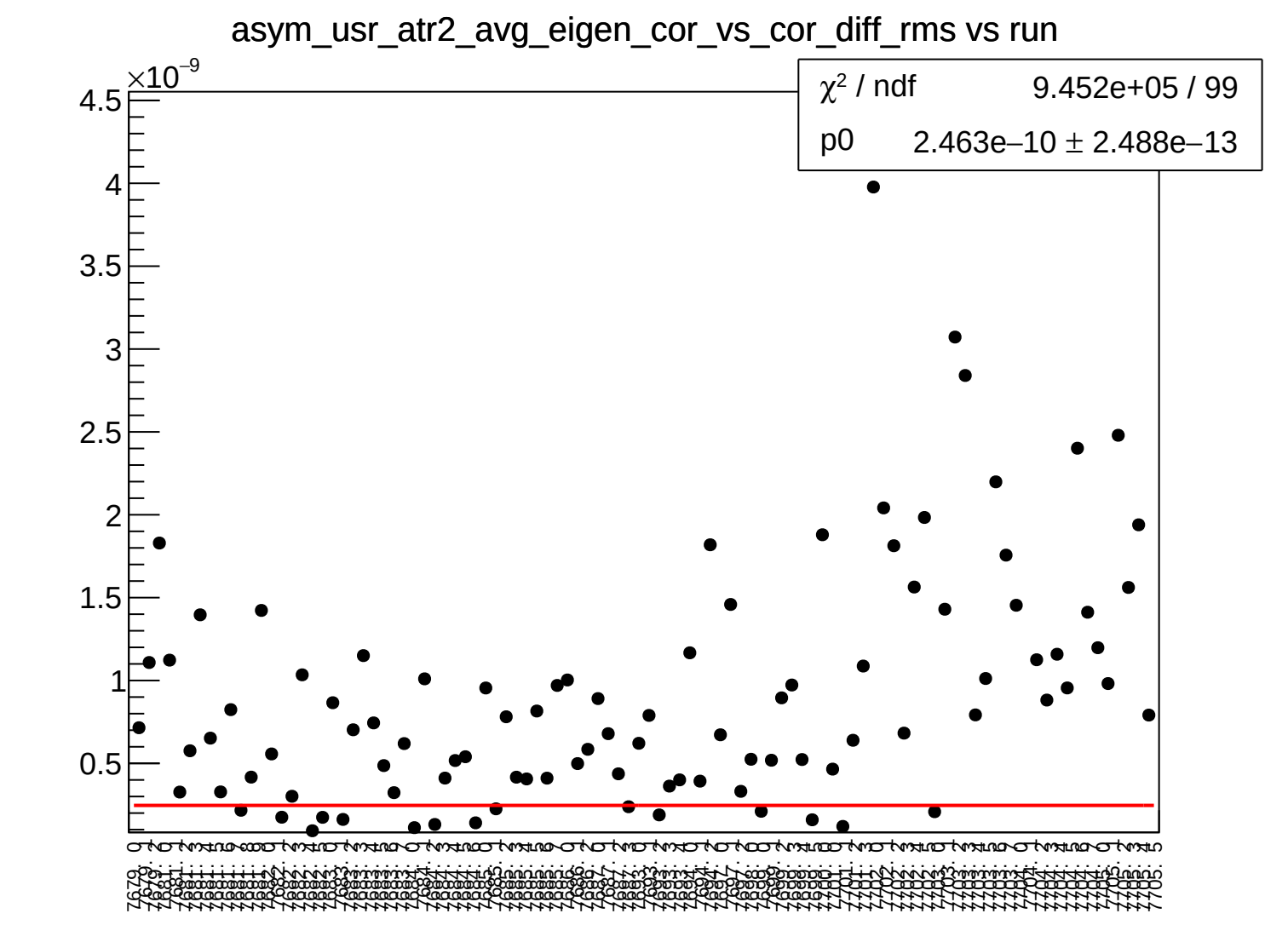

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.708e+05 / 99
p0 123 ± 0.09565
500
400
300
200
100

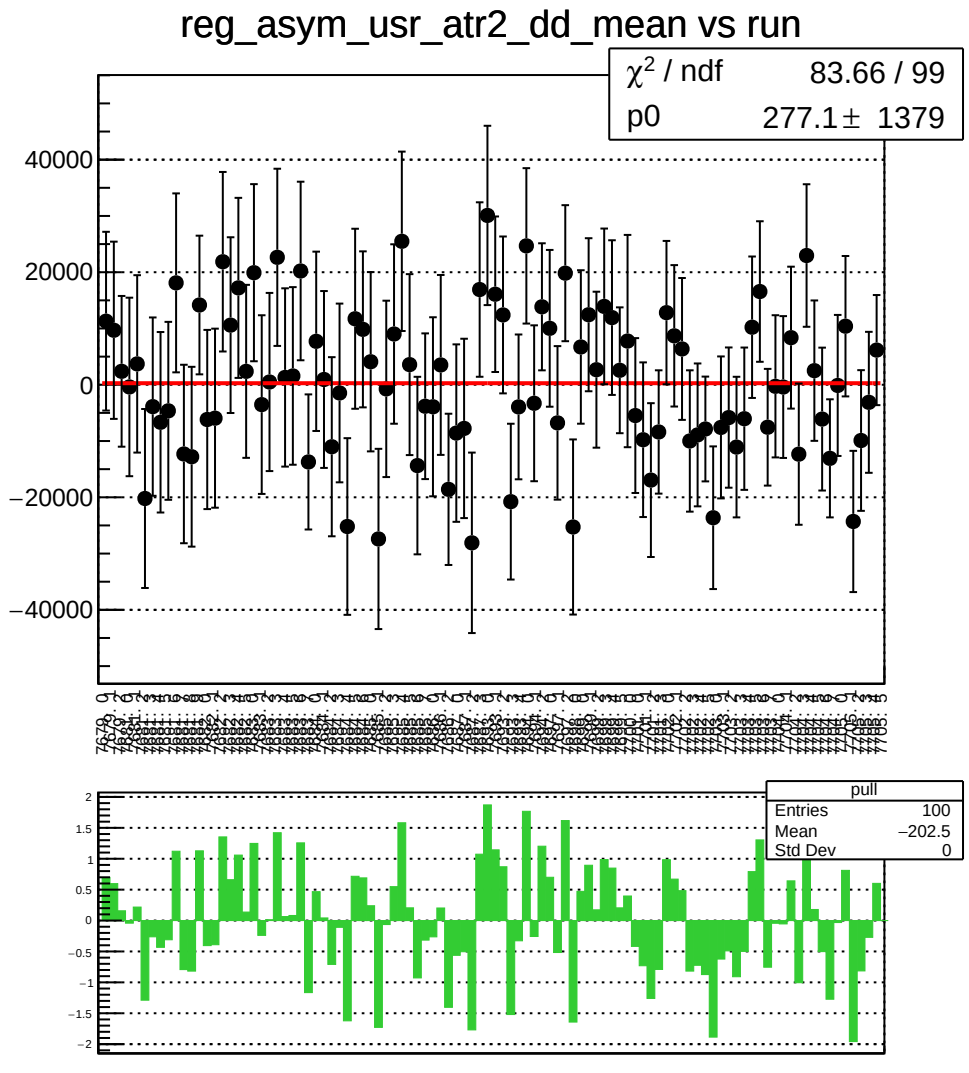

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.1 / 99
p0 −0.01778 ± 0.1353
pull
Entries 100
Mean 111.1
Std Dev 0
pull1D
Entries 100
Mean −0.04637
Std Dev 1.004

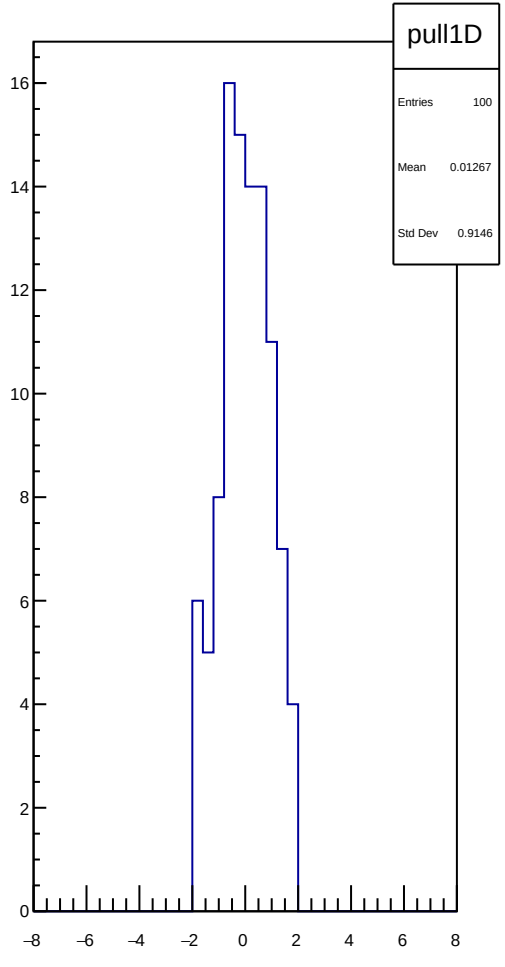

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.708e+05 / 99
p0 123 ± 0.09565
500
400
300
200
100

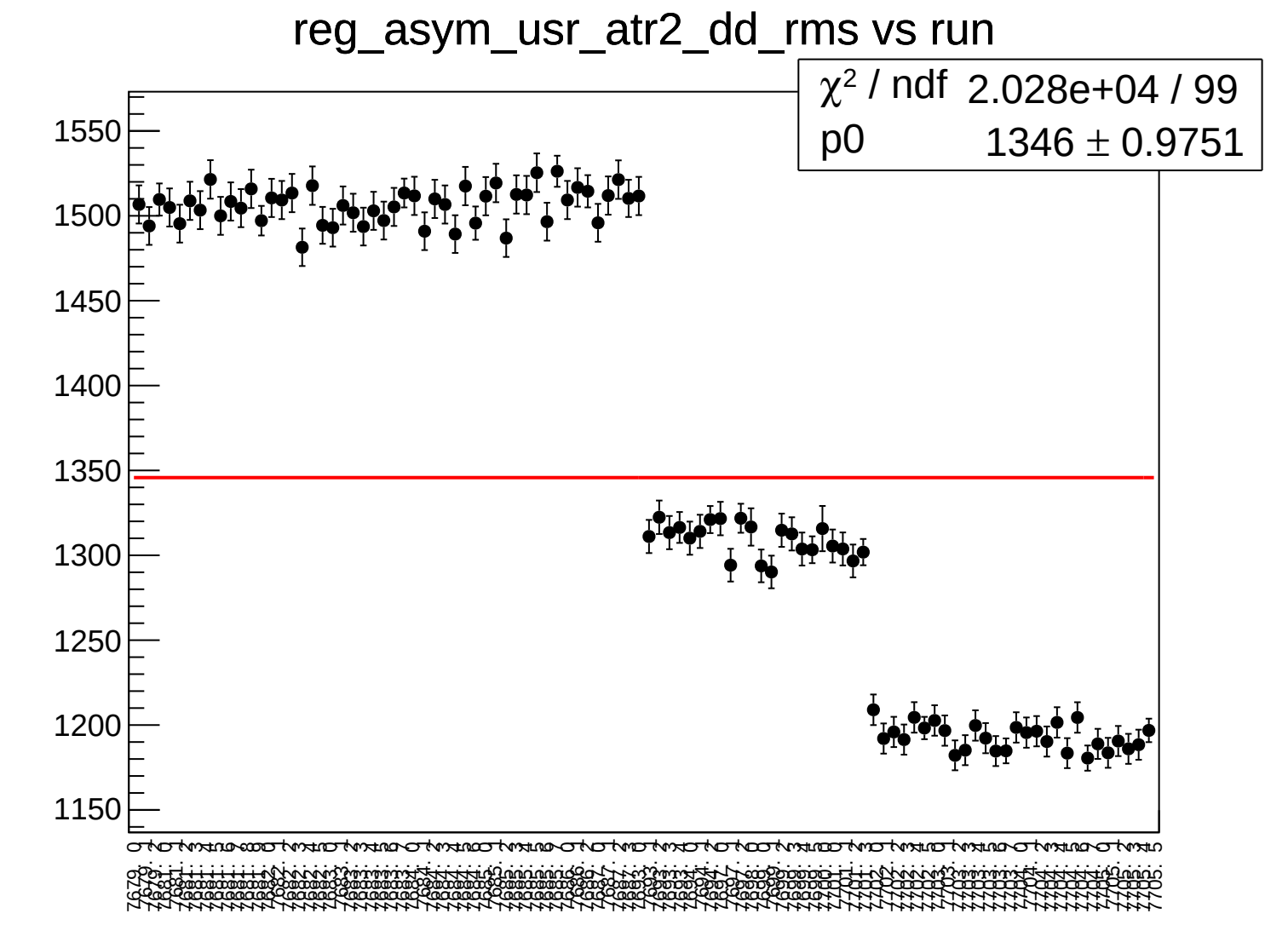

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 122.6 / 99
p0 −2.425e−13 ± 3.519e−13
pull
Entries 100
Mean 79.05
Std Dev 0

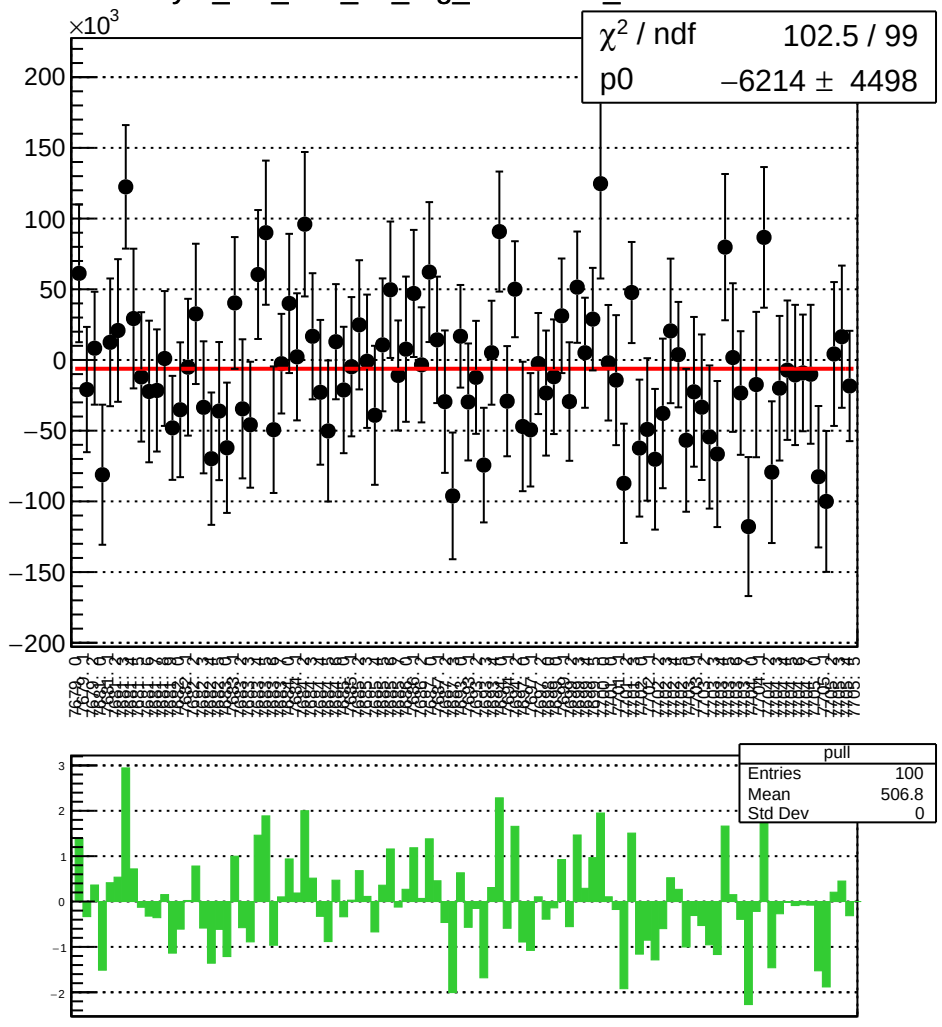

pull1D
Entries 100
Mean −0.06606
Std Dev 1.105

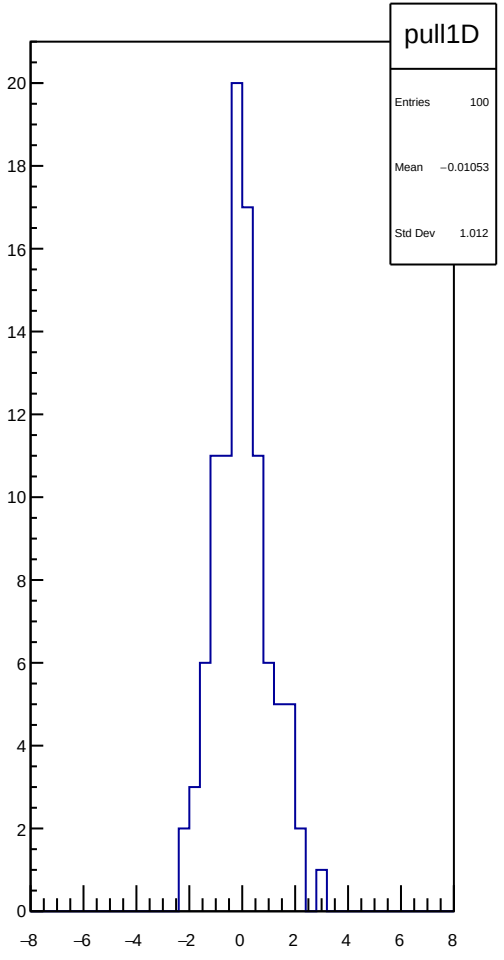

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.452e+05 / 99
p0 2.463e−10 ± 2.488e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

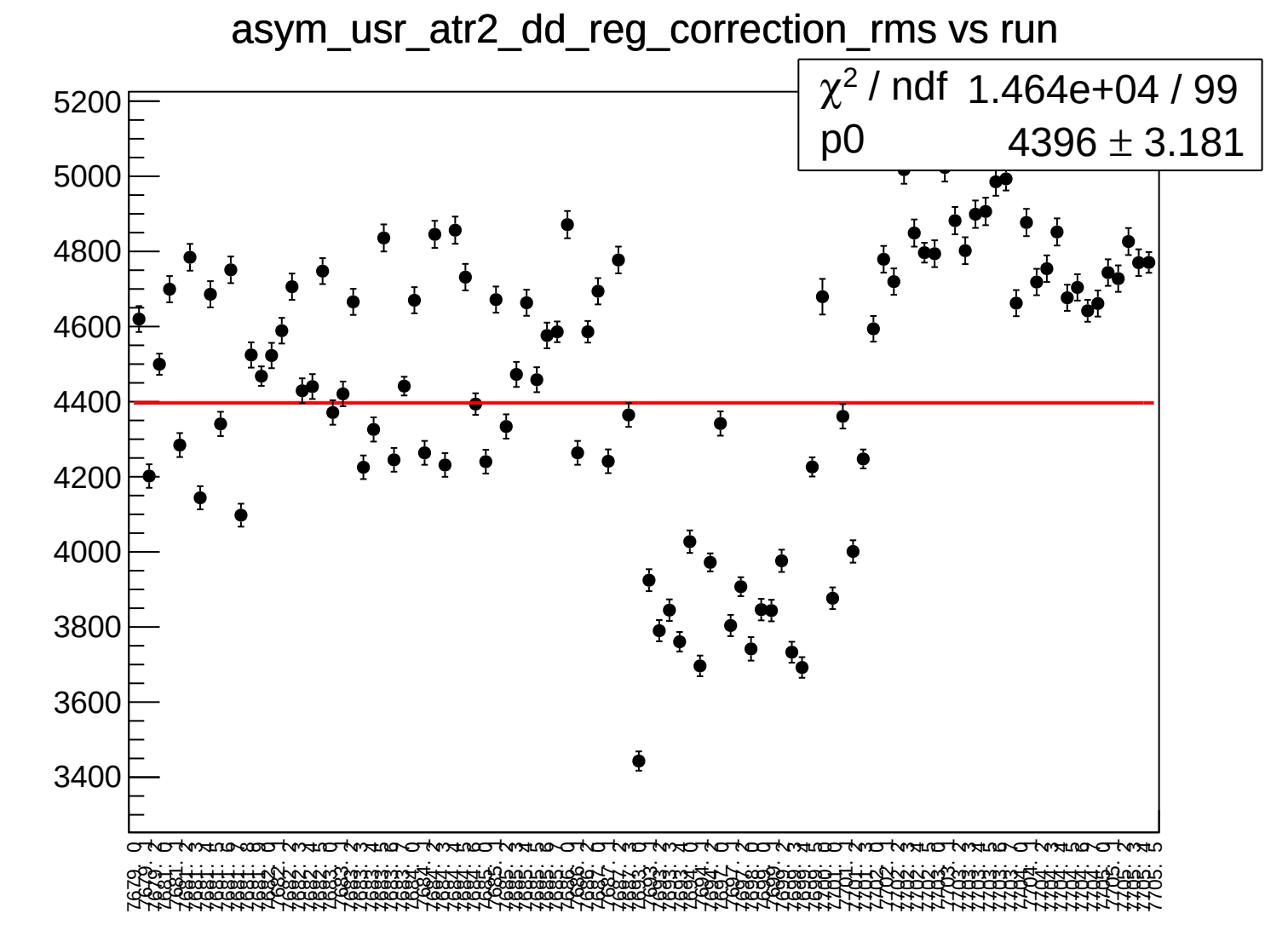

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 83.66 / 99
p0 277.1± 1379
40000
20000
0
−20000
−40000
pull
Entries 100
Mean −202.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

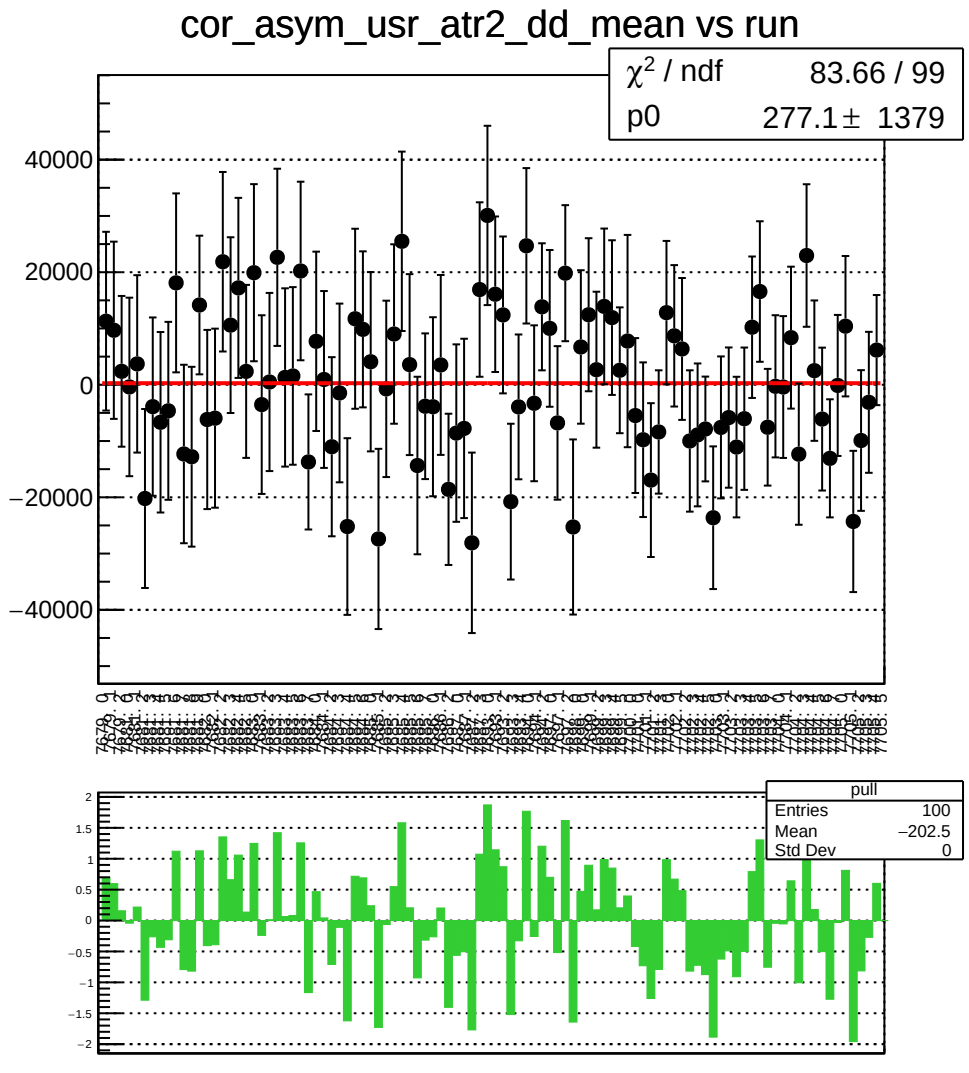

pull1D
Entries 100
Mean 0.01267
Std Dev 0.9146
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

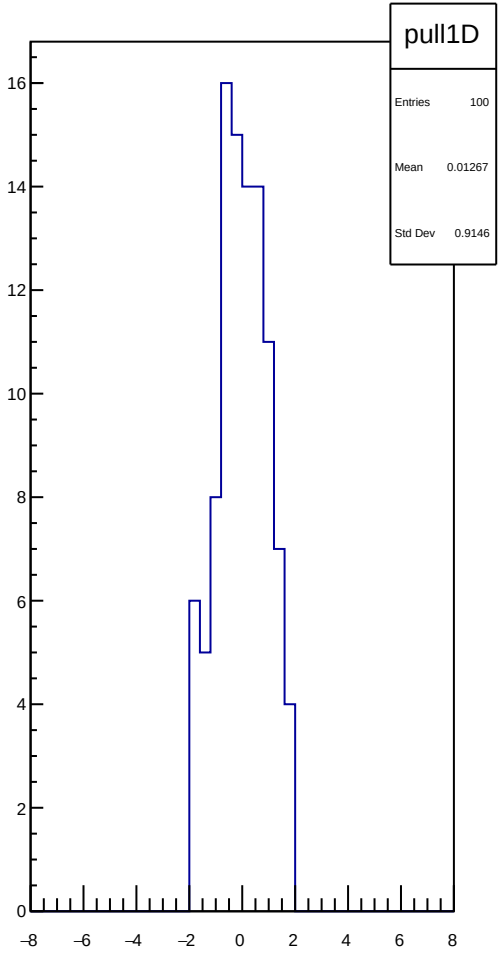

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 2.028e+04 / 99
p0 1346 ± 0.9751
1550
1500
1450
1400
1350
1300
1250
1200
1150

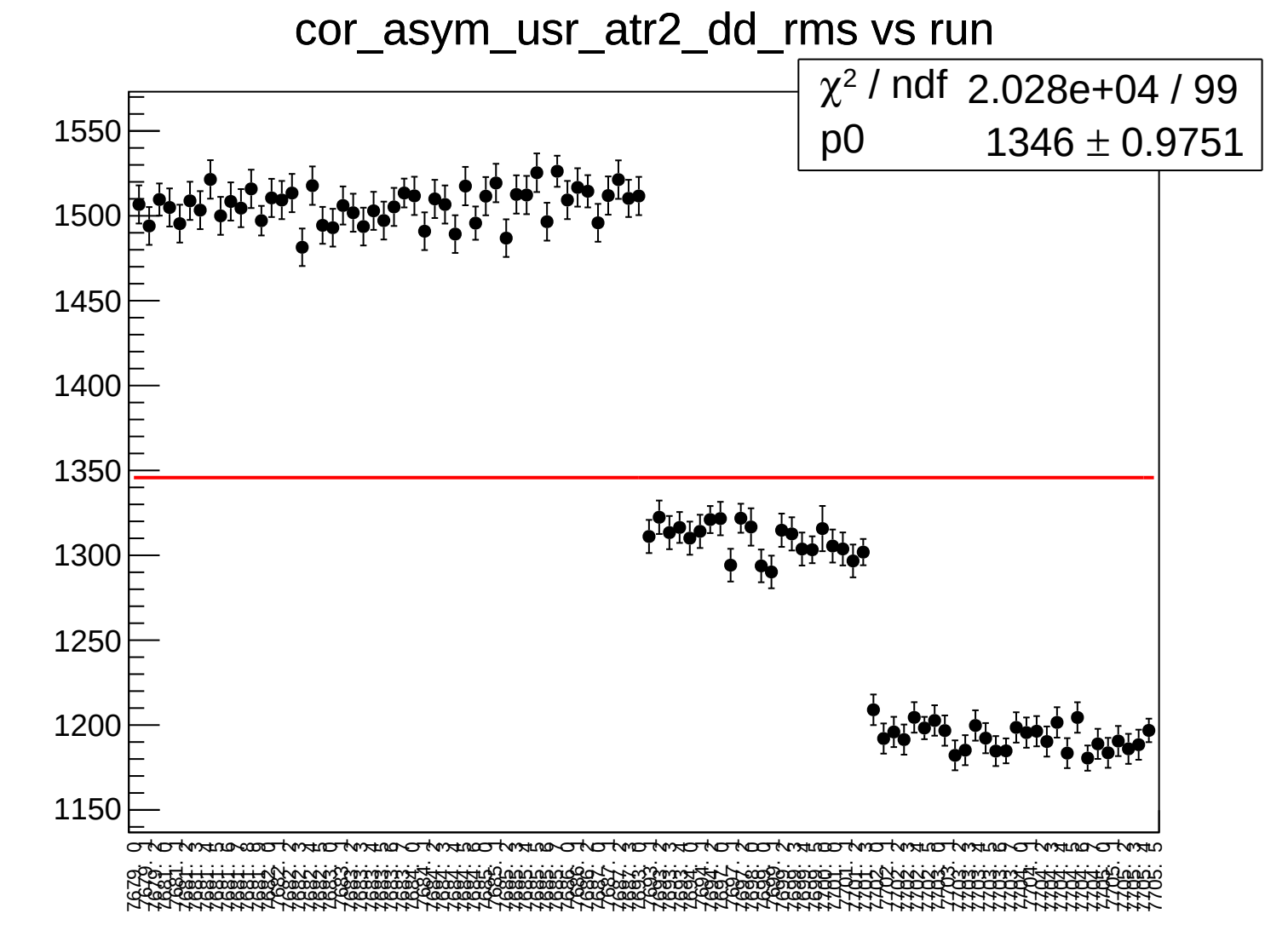

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 102.5 / 99
p0 −6214 ± 4498
pull
Entries 100
Mean 506.8
Std Dev 0

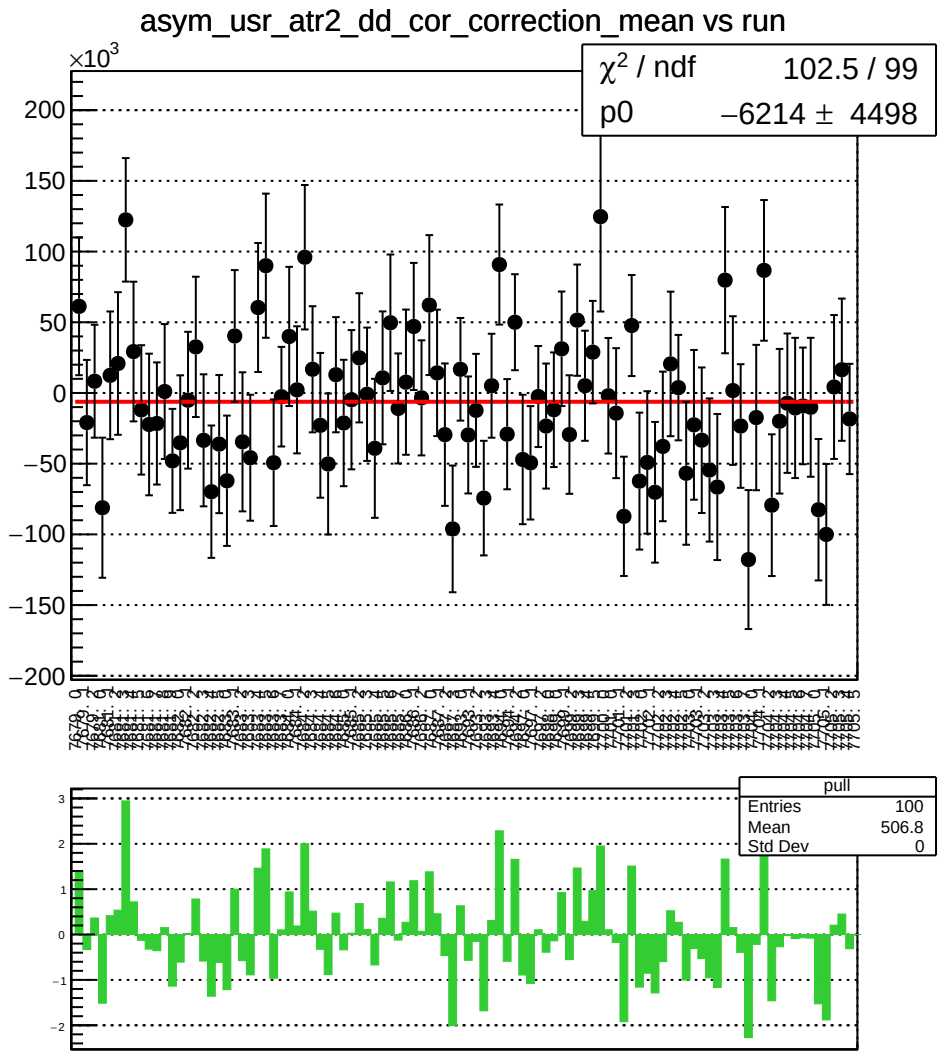

pull1D
Entries 100
Mean −0.01053
Std Dev 1.012

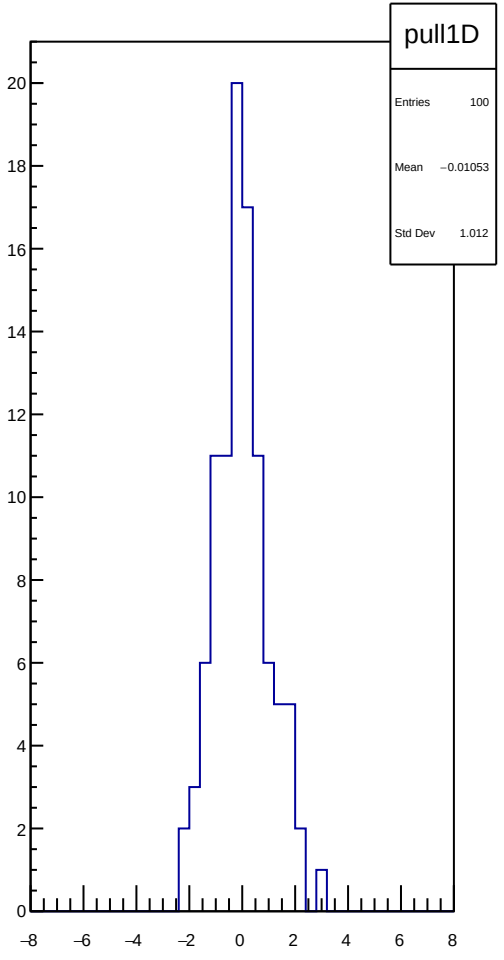

asym_usr_atr2_dd_reg_correction_rms vs run
χ^2 / ndf 1.464e+04 / 99
p0 4396 ± 3.181
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

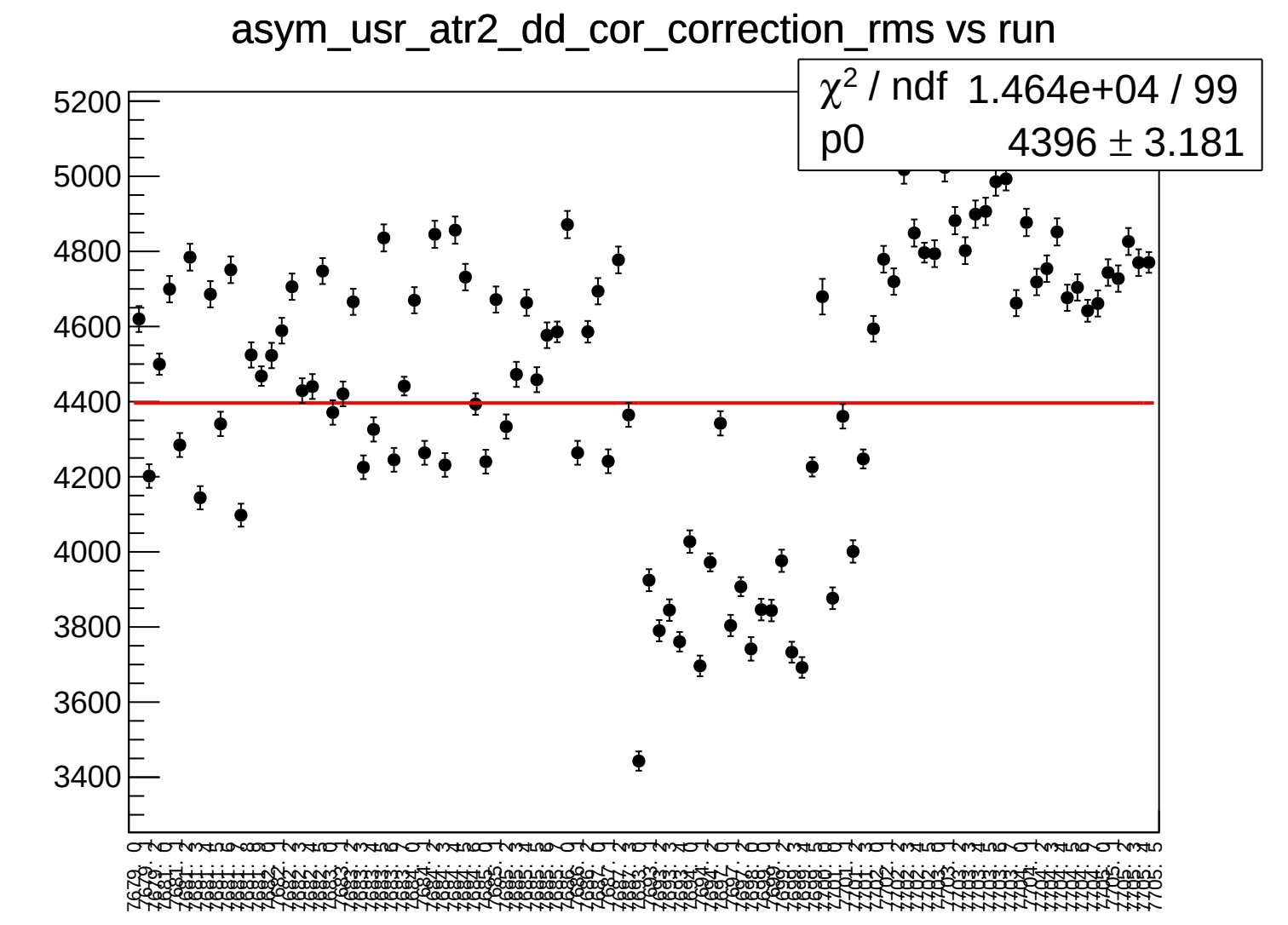

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 83.66 / 99
p0 277.1± 1379
40000
20000
0
−20000
−40000
pull
Entries 100
Mean −202.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

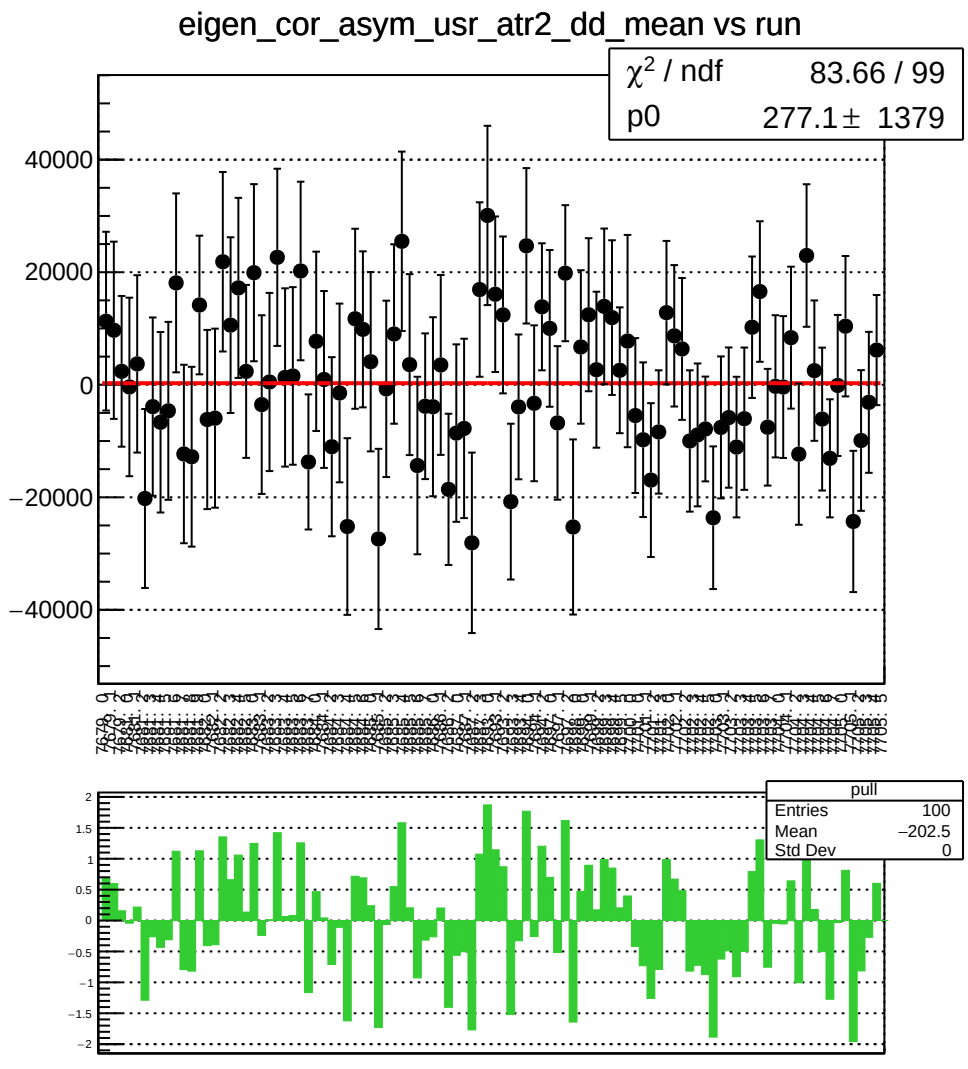

pull1D
Entries 100
Mean 0.01267
Std Dev 0.9146
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

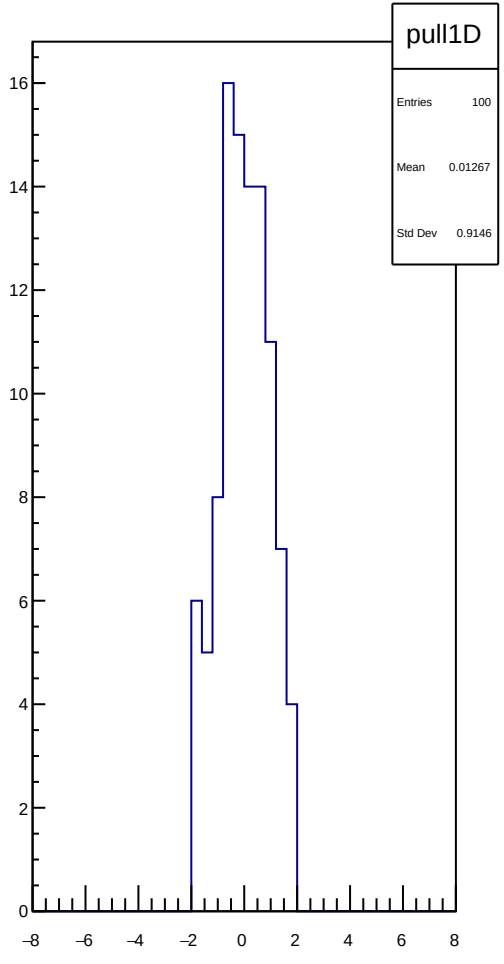

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 2.028e+04 / 99
p0 1346 ± 0.9751
1550
1500
1450
1400
1350
1300
1250
1200
1150

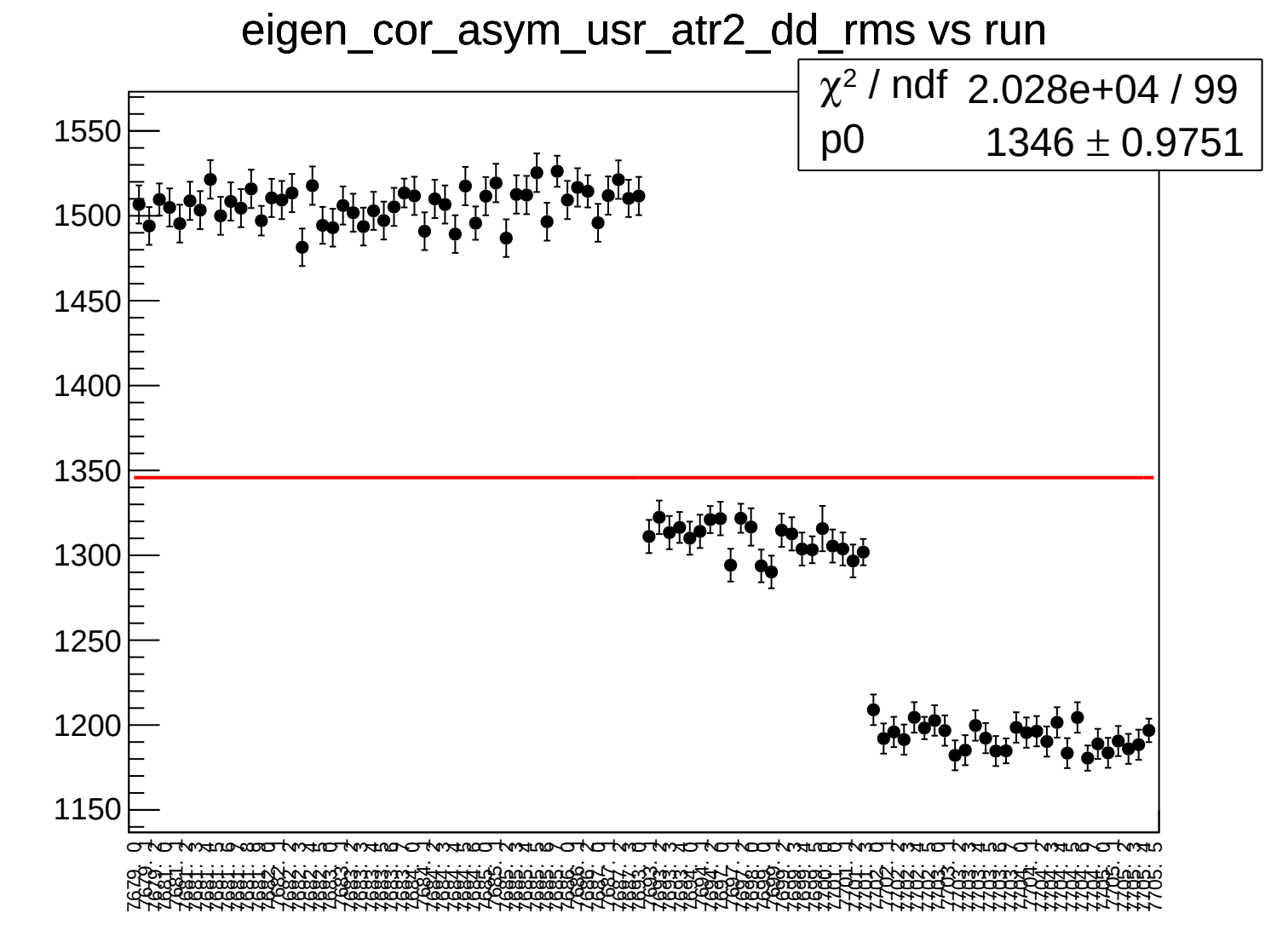

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 102.5 / 99
p0 −6214 ± 4498
pull
Entries 100
Mean 506.8
Std Dev 0

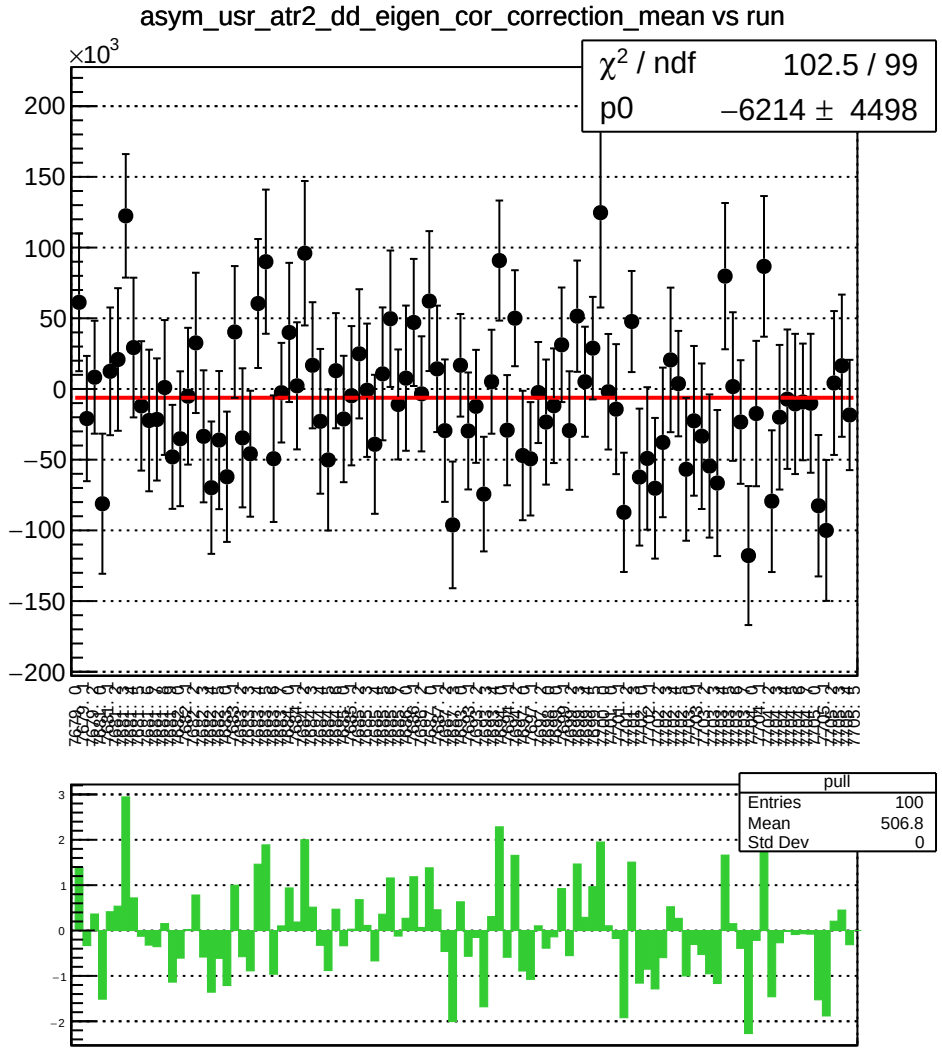

pull1D
Entries 100
Mean −0.01053
Std Dev 1.012

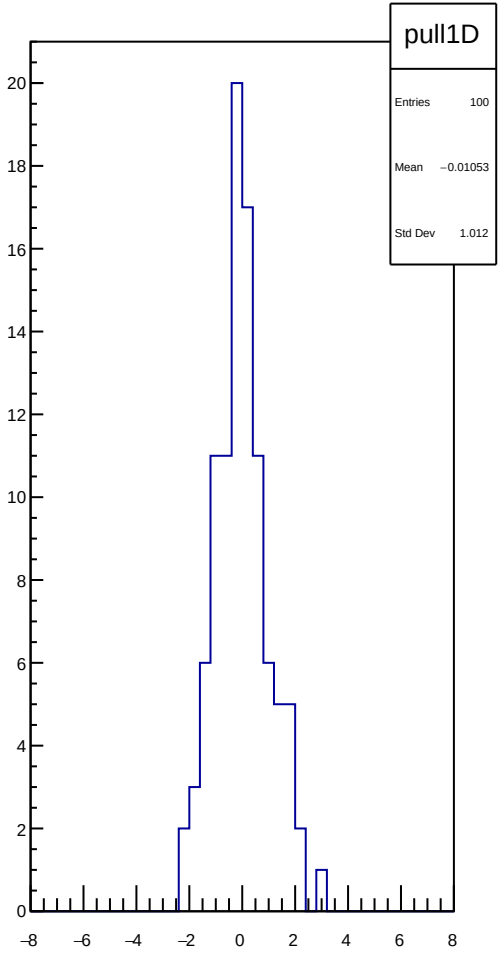

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 1.464e+04 / 99
p0 4396 ± 3.181
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

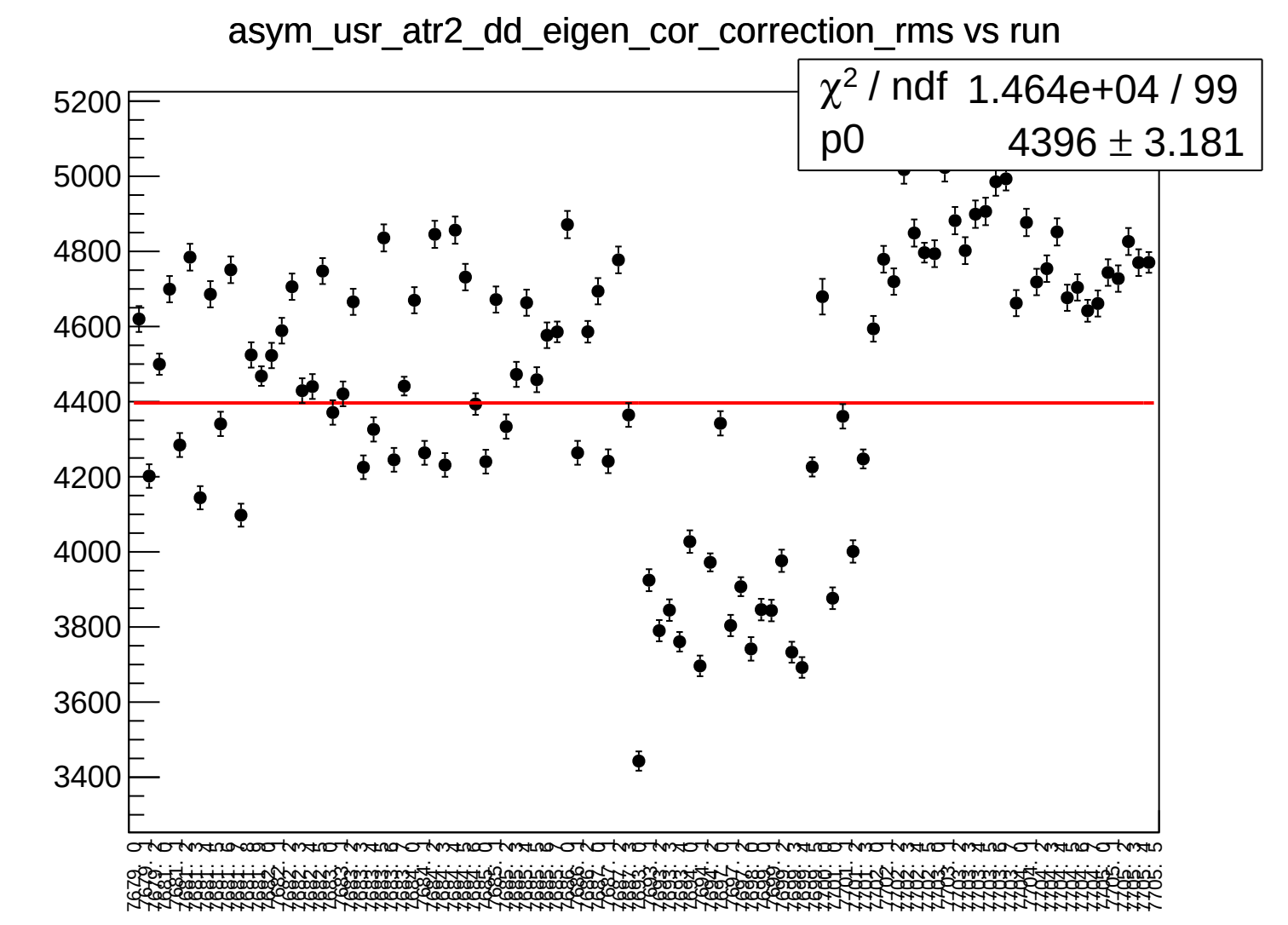

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 83.66 / 99
p0 277.1± 1379
40000
20000
0
−20000
−40000
pull
Entries 100
Mean −202.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

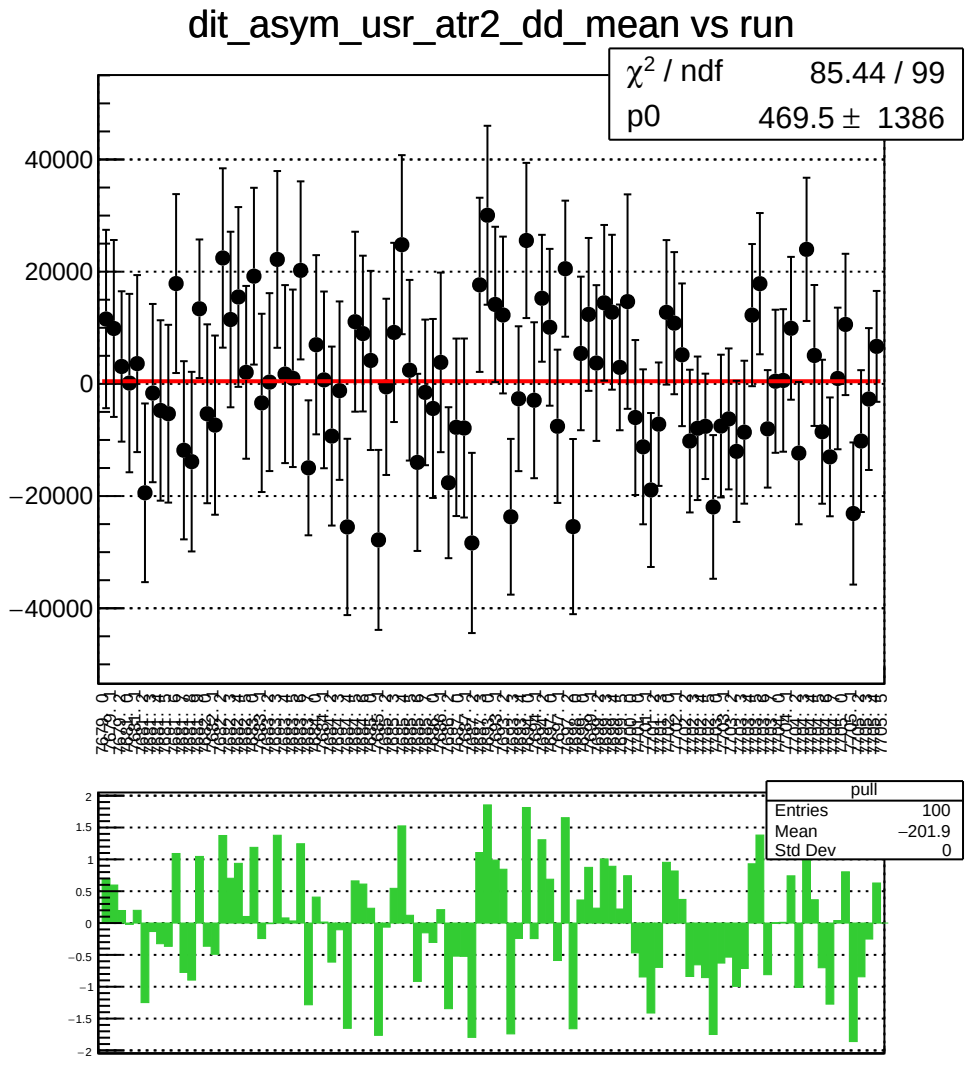

pull1D
Entries 100
Mean 0.01267
Std Dev 0.9146
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

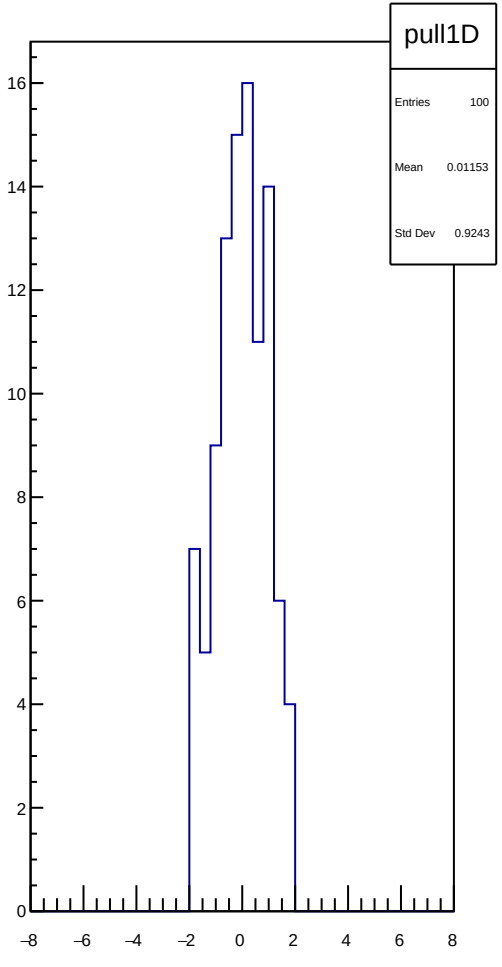

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 2.028e+04 / 99
p0 1346 ± 0.9751
1550
1500
1450
1400
1350
1300
1250
1200
1150

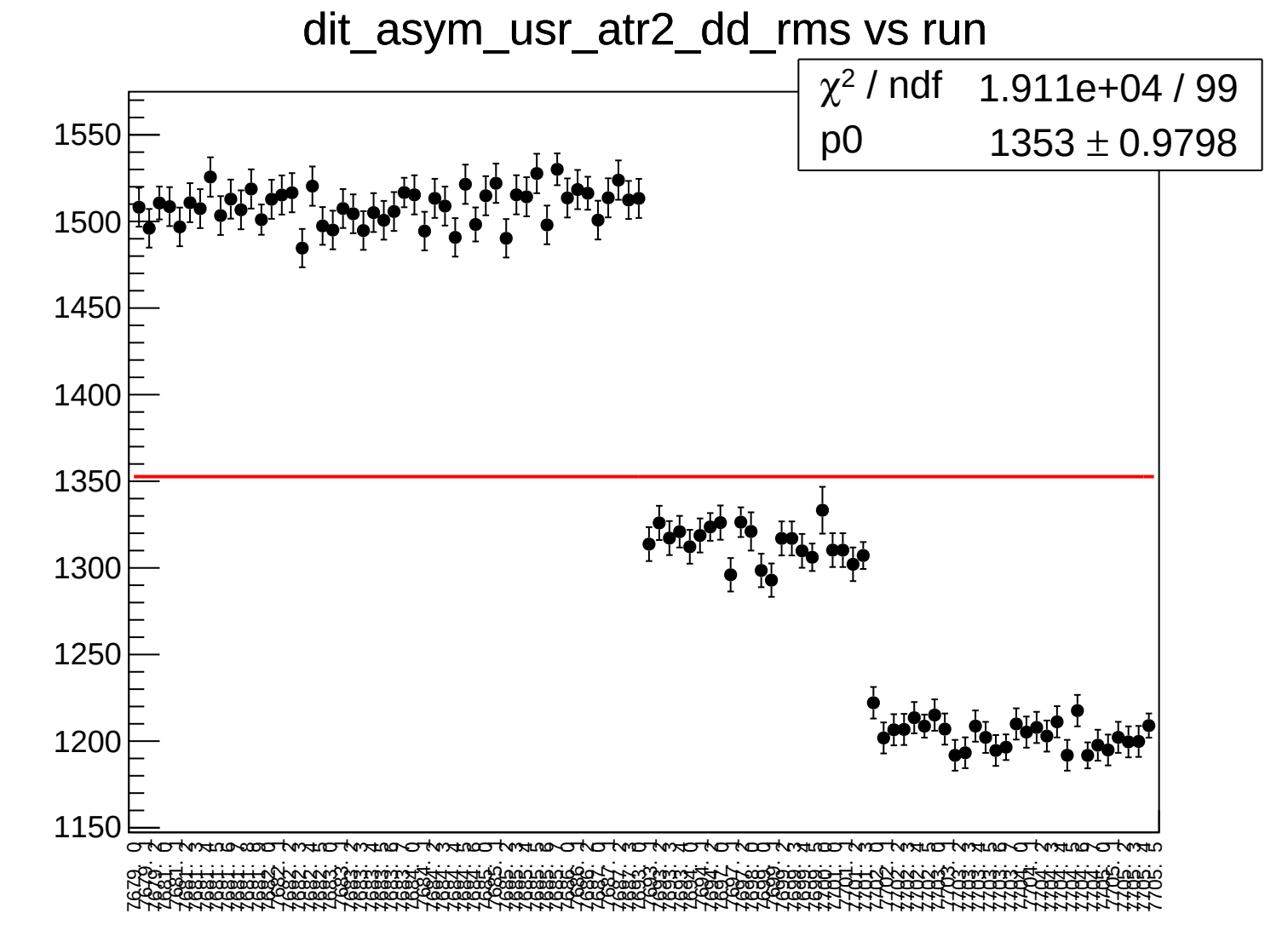

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 102.5 / 99
p0 −6214 ± 4498
pull
Entries 100
Mean 506.8
Std Dev 0

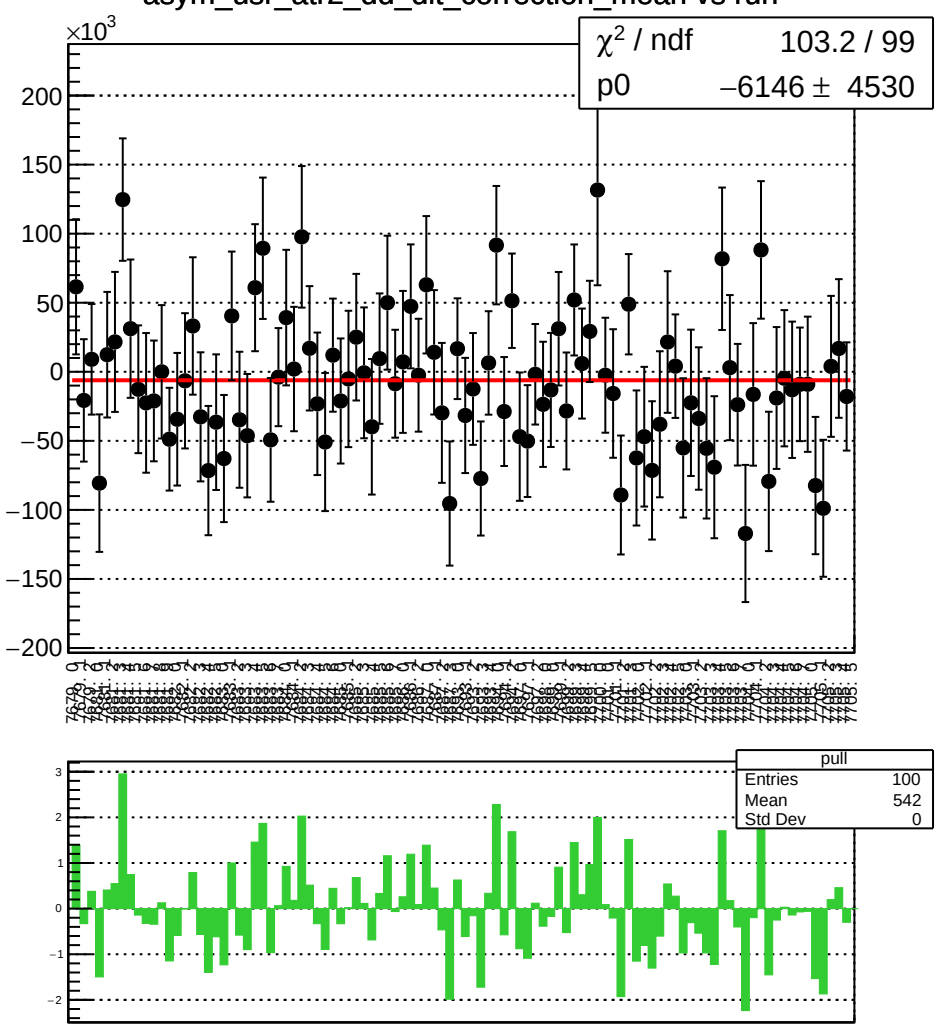

pull1D
Entries 100
Mean −0.01053
Std Dev 1.012

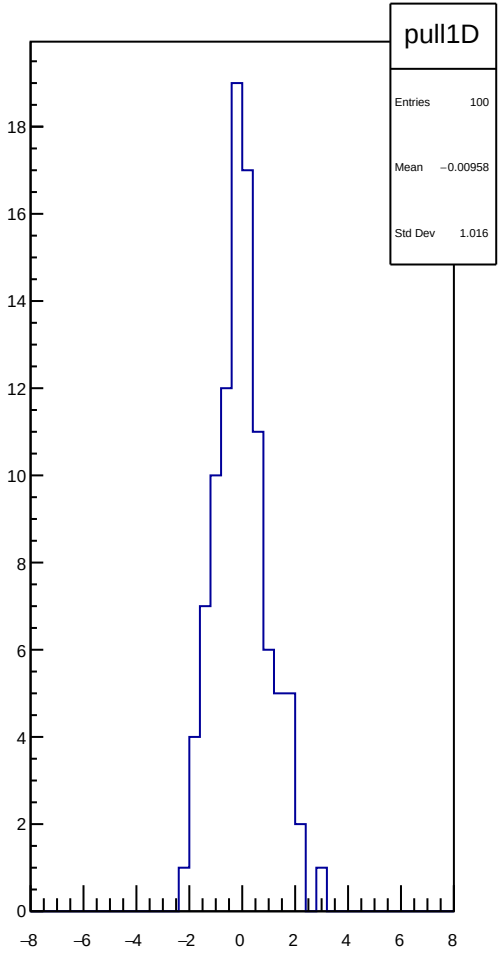

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.464e+04 / 99
p0 4396 ± 3.181
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

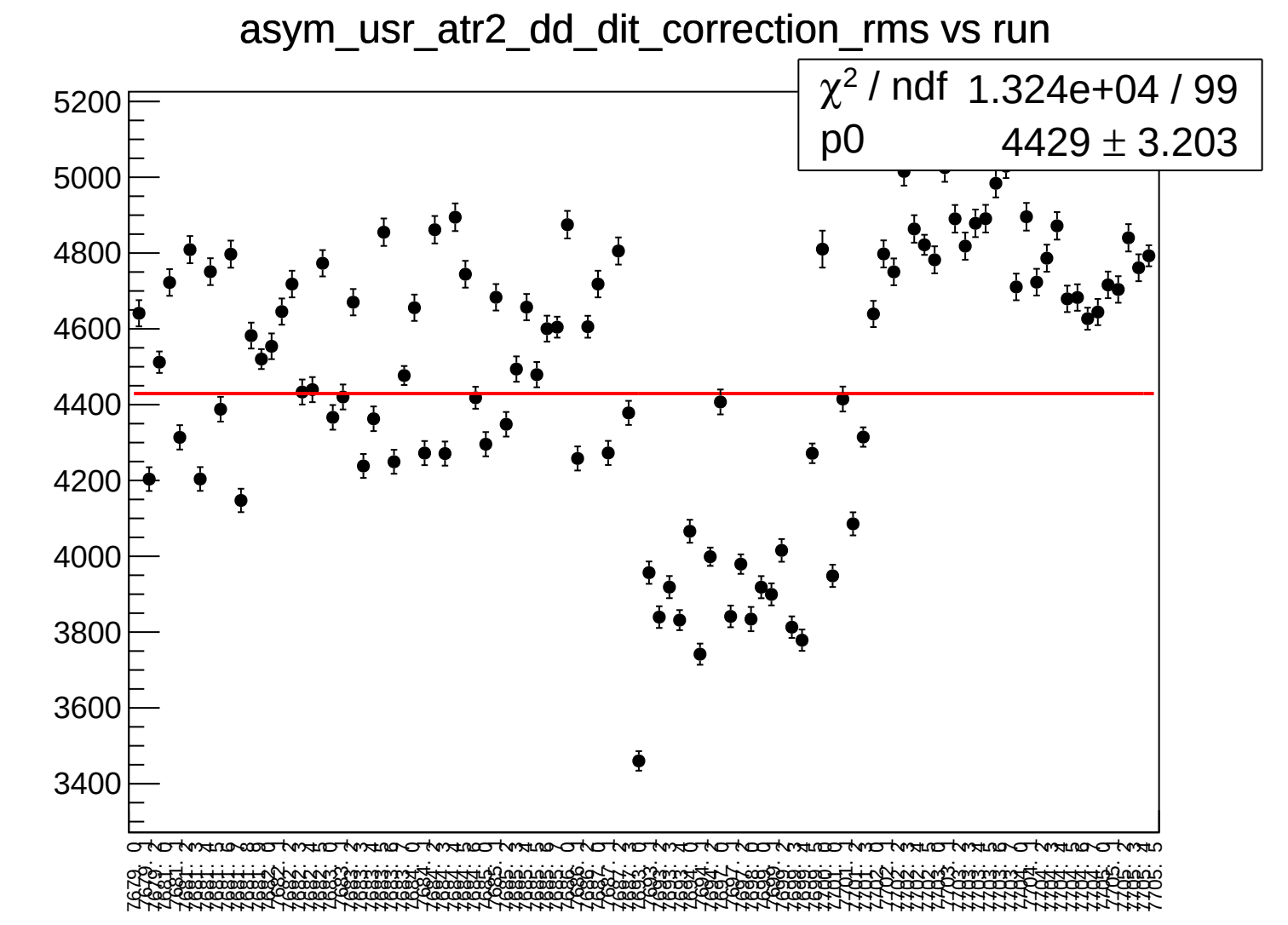

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 85.44 / 99
p0 469.5 ± 1386
40000
20000
0
−20000
−40000
pull
Entries 100
Mean −201.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

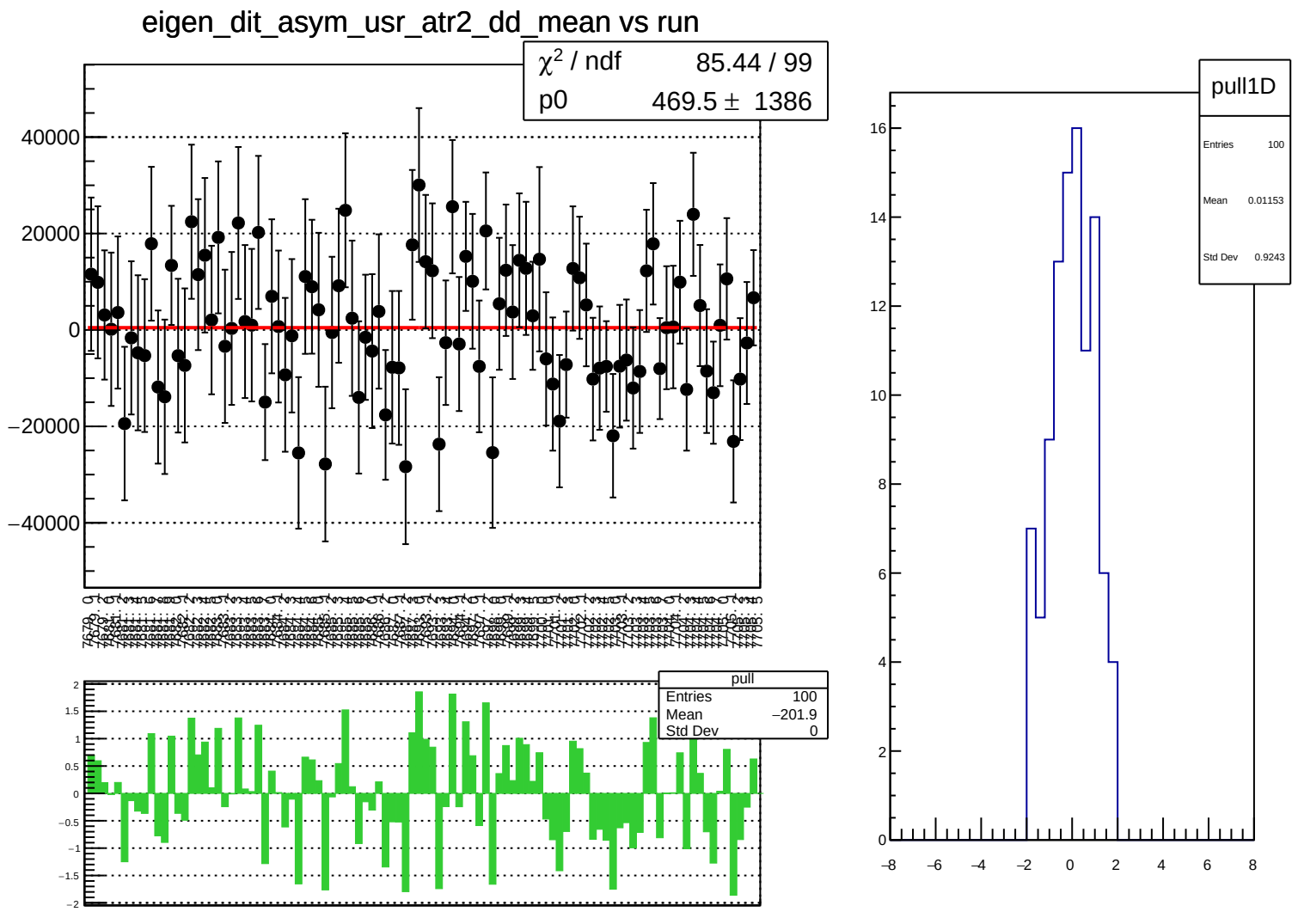

pull1D
Entries 100
Mean 0.01153
Std Dev 0.9243
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

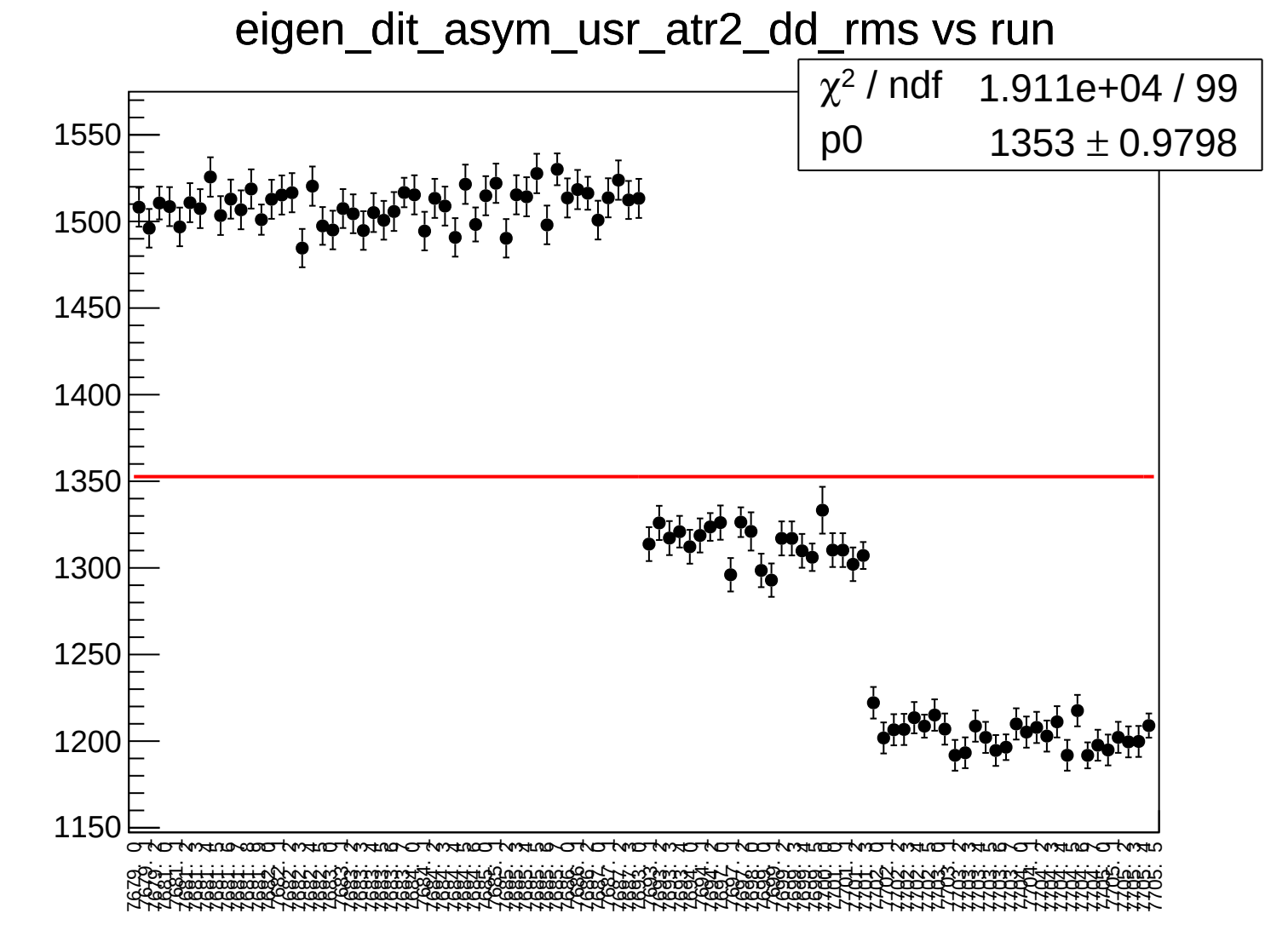

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 1.911e+04 / 99
p0 1353 ± 0.9798
1550
1500
1450
1400
1350
1300
1250
1200
1150

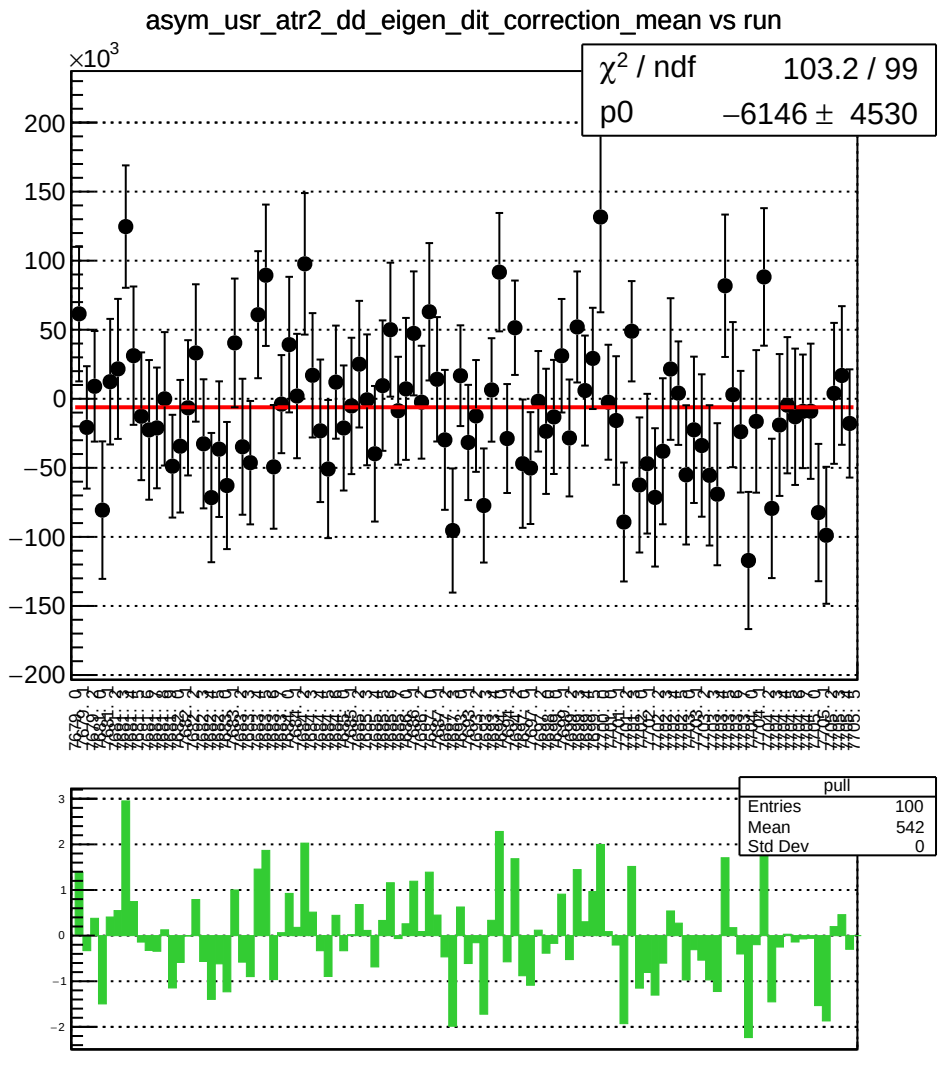

asym_usr_atr2_dd_dit_correction_mean vs run
χ² / ndf 103.2 / 99
p0 −6146 ± 4530
×10³
pull
Entries 100
Mean 542
Std Dev 0

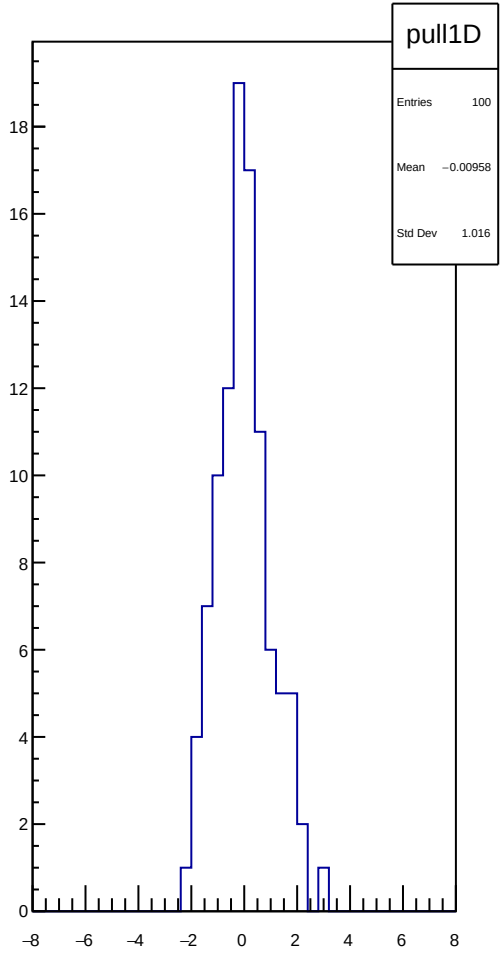

pull1D
Entries 100
Mean −0.00958
Std Dev 1.016

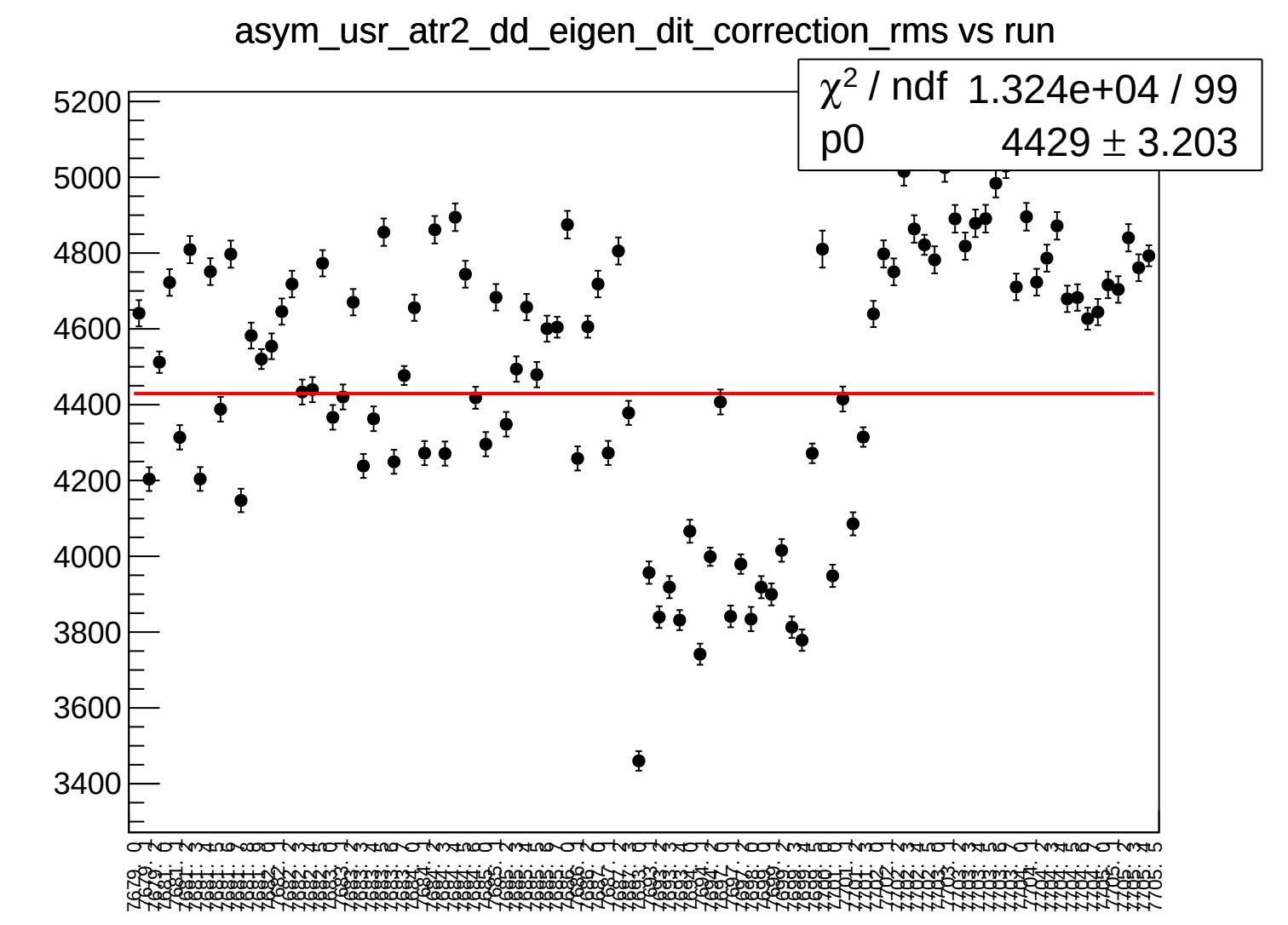

asym_usr_atr2_dd_dit_correction_rms vs run
χ^2 / ndf 1.324e+04 / 99
p0 4429 ± 3.203
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

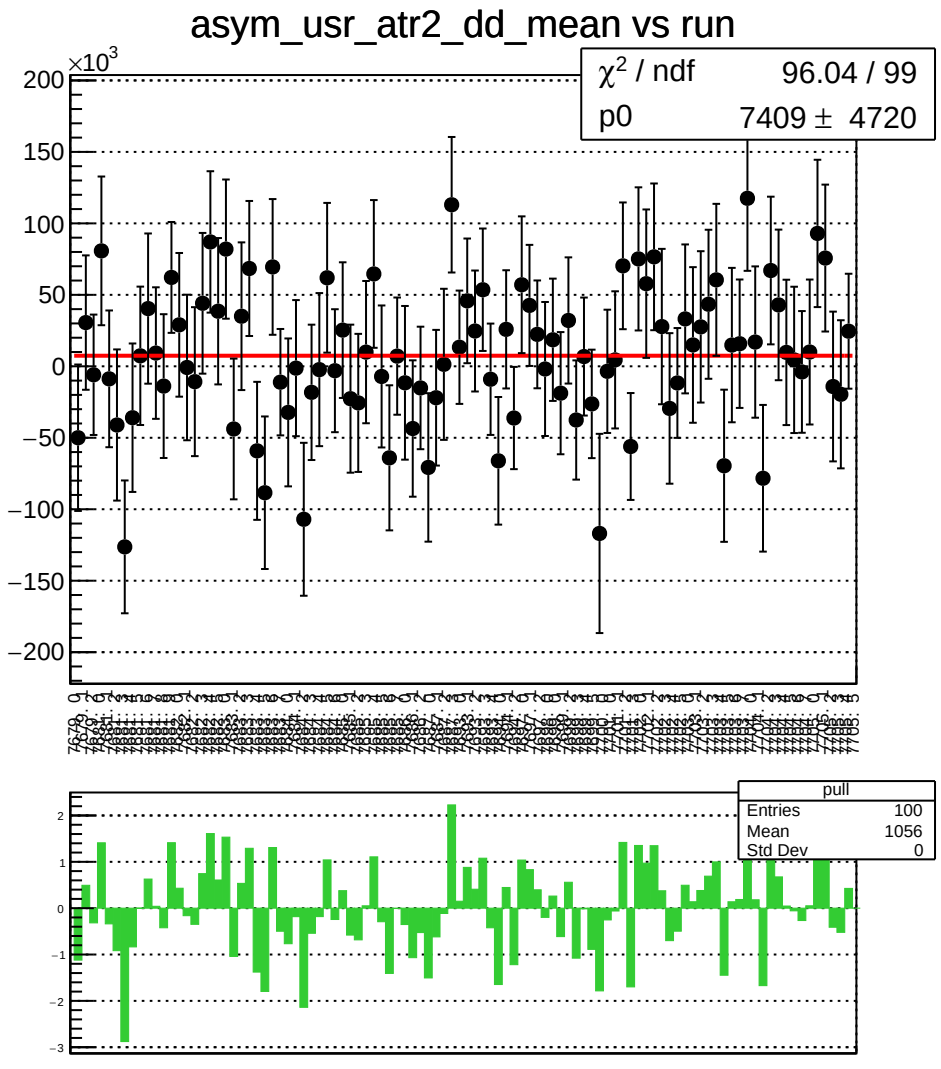

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 85.44 / 99
p0 469.5 ± 1386
40000
20000
0
−20000
−40000
pull
Entries 100
Mean −201.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 100
Mean 0.01153
Std Dev 0.9243
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

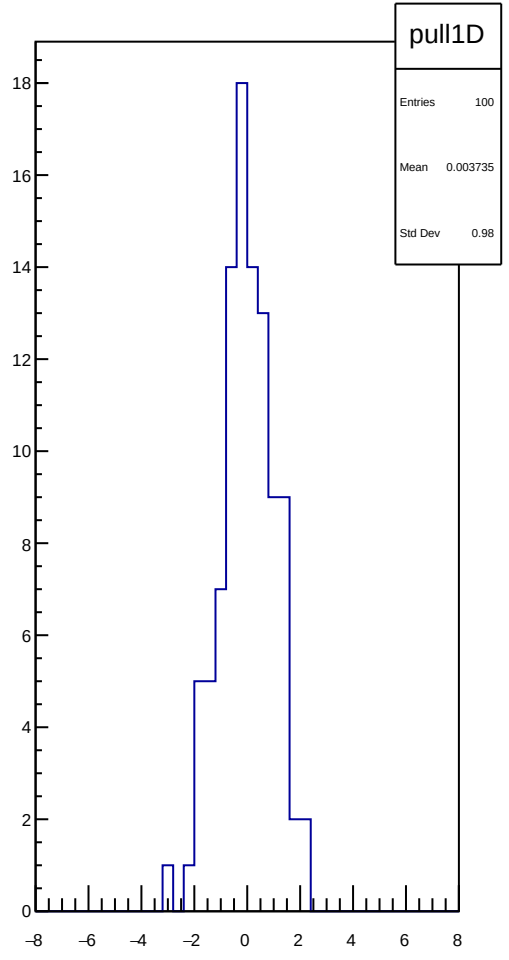

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 1.911e+04 / 99
p0 1353 ± 0.9798
1550
1500
1450
1400
1350
1300
1250
1200
1150

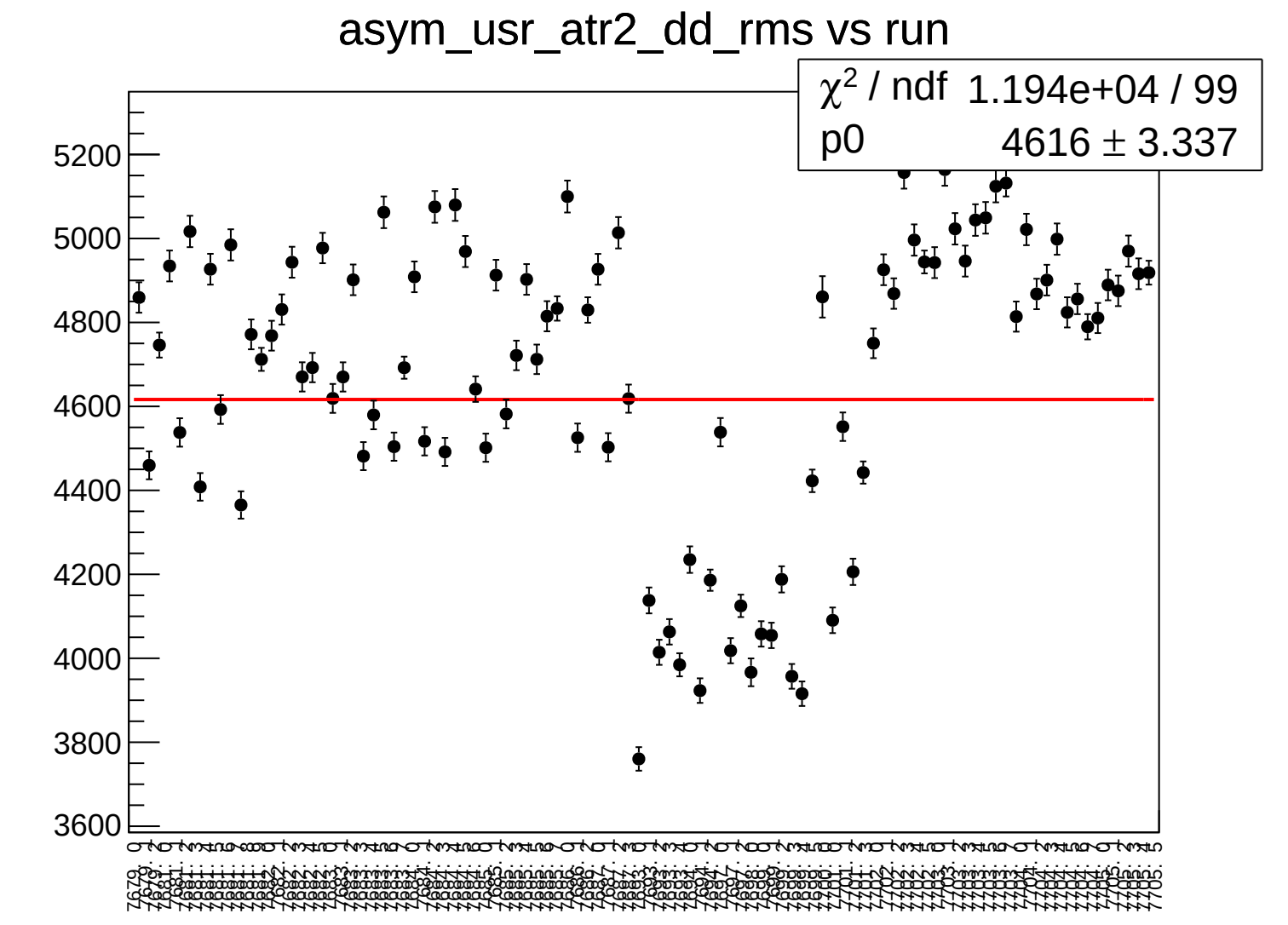

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 103.2 / 99
p0 −6146 ± 4530
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 100
Mean 542
Std Dev 0
3
2
1
0
−1
−2

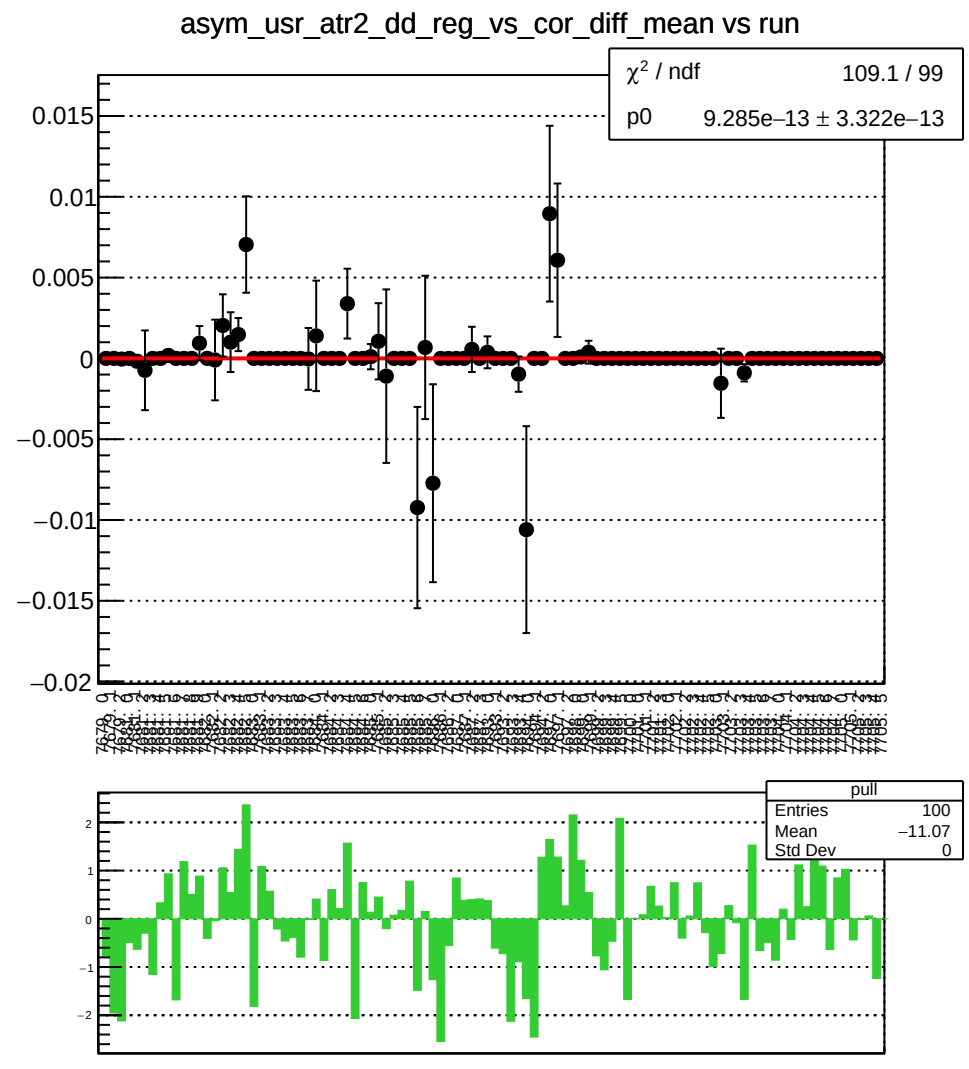

pull1D
Entries 100
Mean −0.00958
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

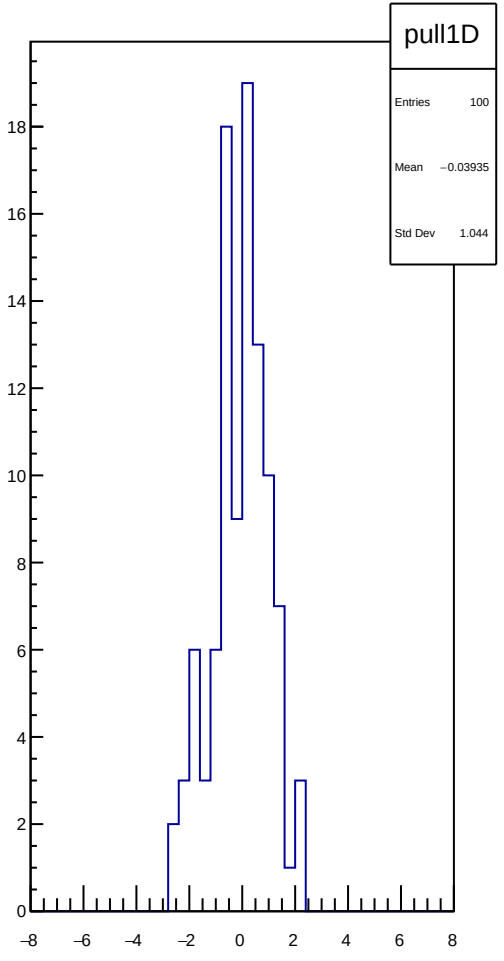

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.324e+04 / 99
p0 4429 ± 3.203
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

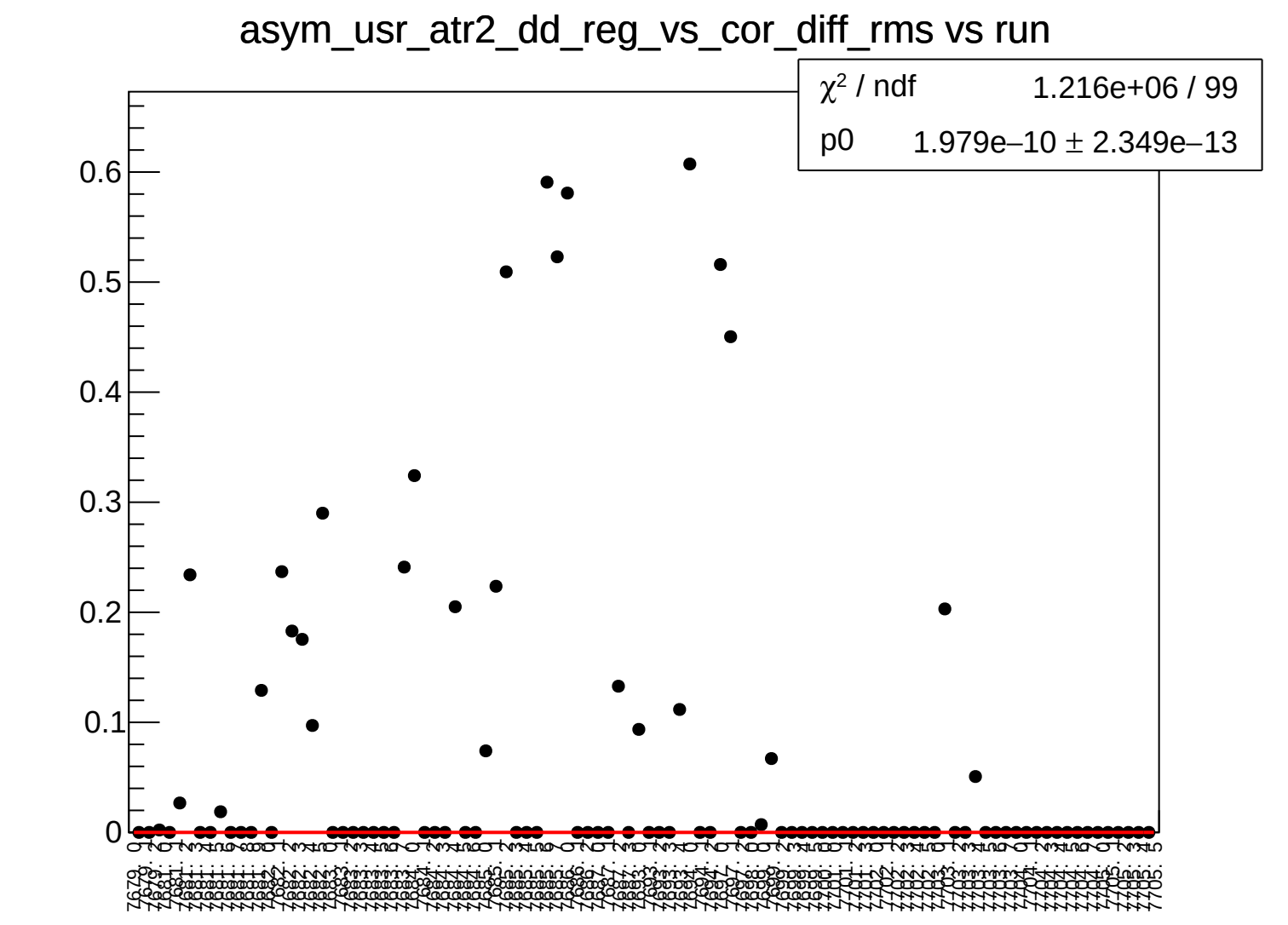

asym_usr_atr2_dd_mean vs run
×10^3
χ^2 / ndf 96.04 / 99
p0 7409 ± 4720
pull
Entries 100
Mean 1056
Std Dev 0

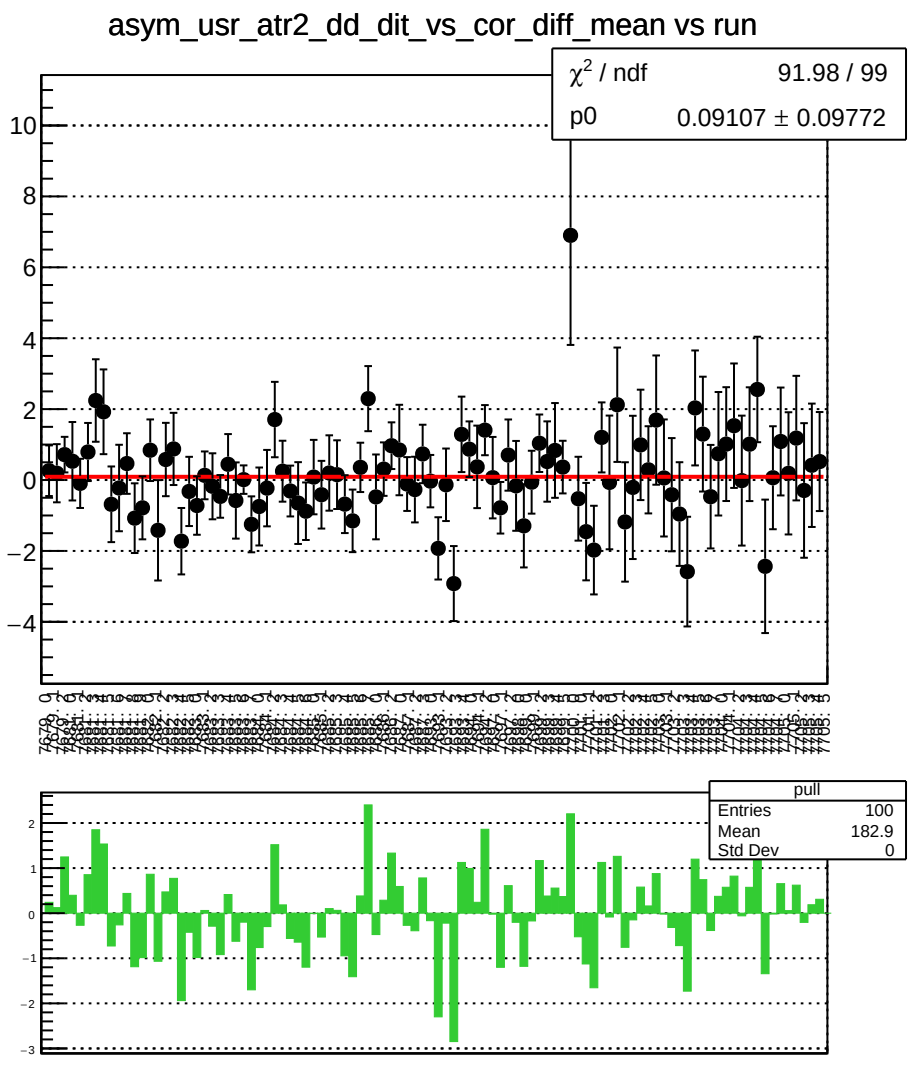

pull1D
Entries 100
Mean 0.003735
Std Dev 0.98

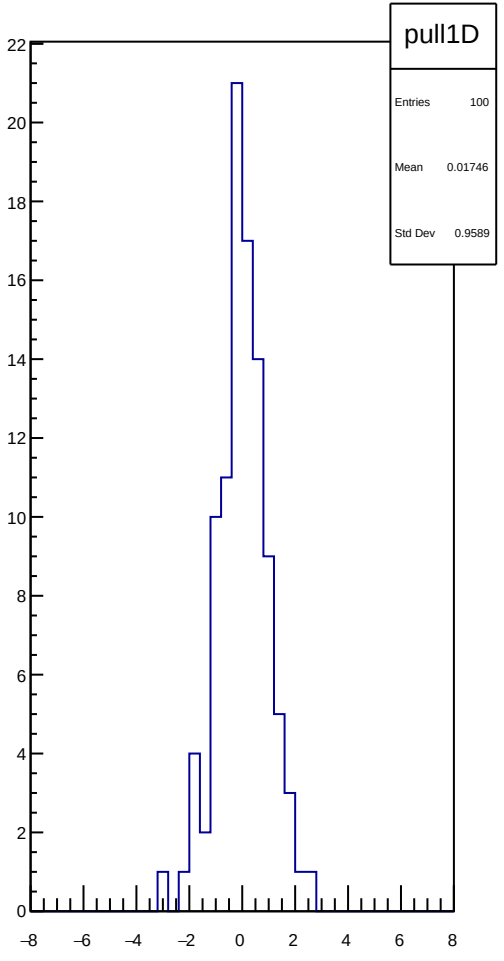

asym_usr_atr2_dd_rms vs run
χ² / ndf 1.194e+04 / 99
p0 4616 ± 3.337
5200
5000
4800
4600
4400
4200
4000
3800
3600

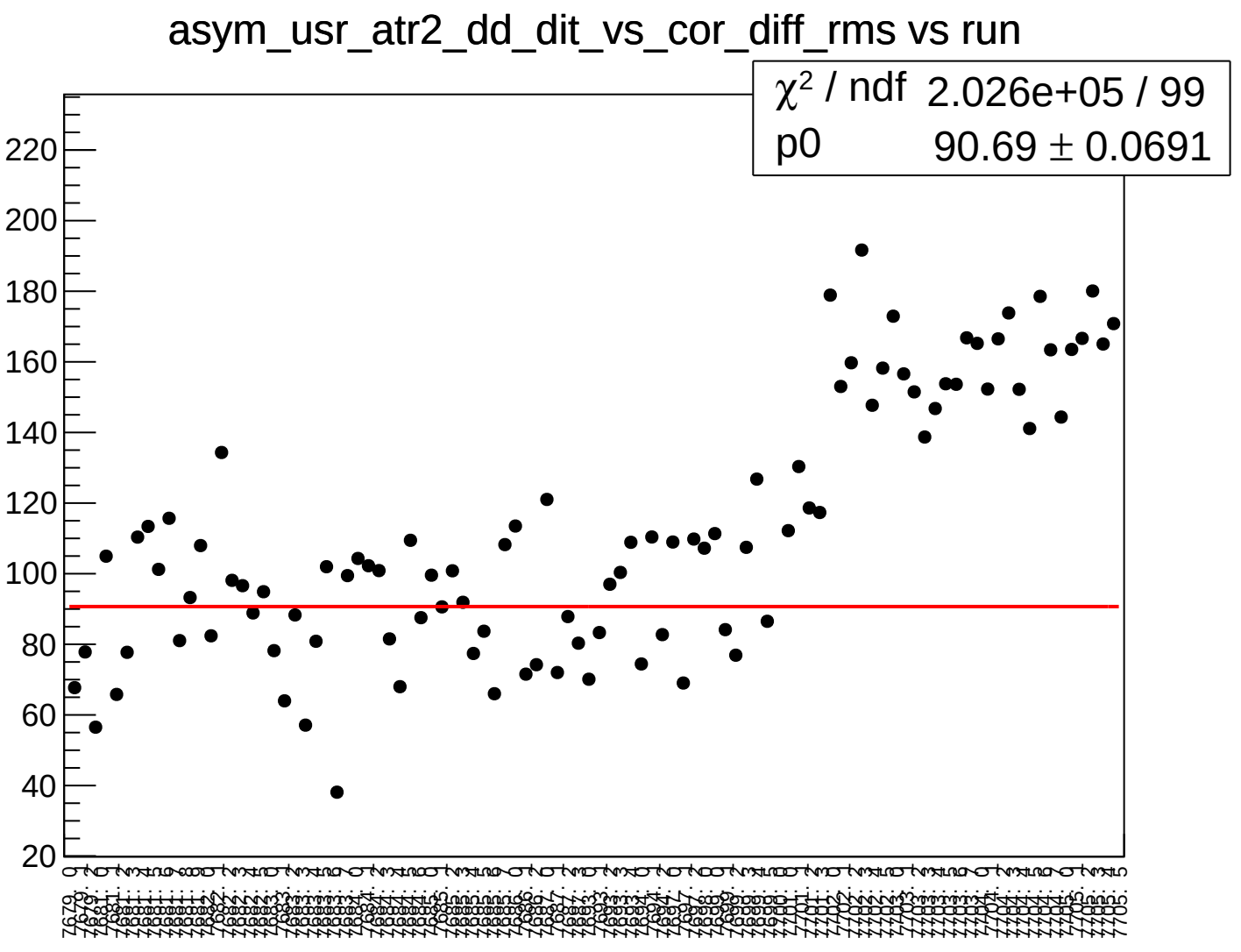

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 109.1 / 99
p0 9.285e−13 ± 3.322e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 100
Mean −11.07
Std Dev 0
2
1
0
−1
−2

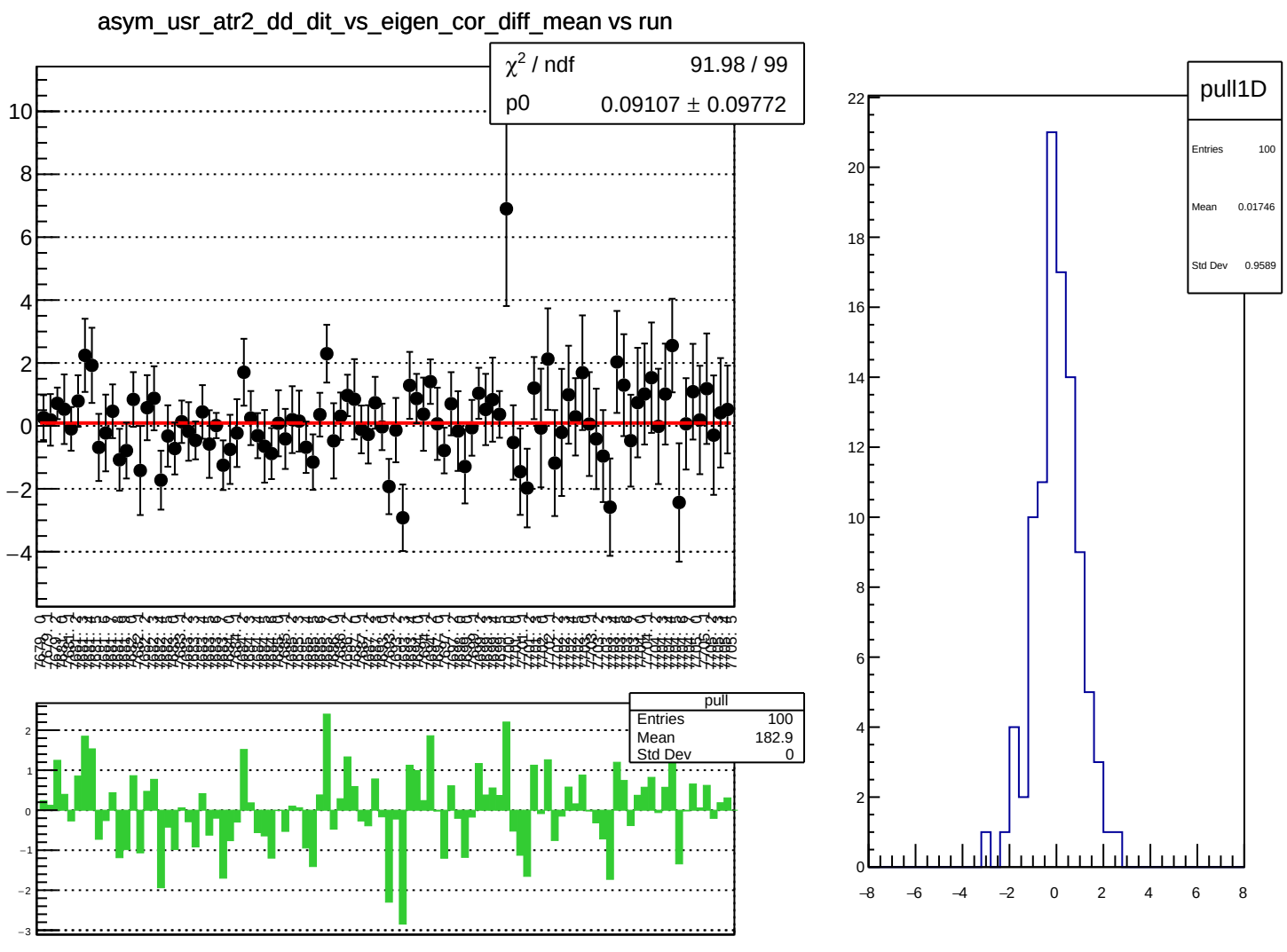

pull1D
Entries 100
Mean −0.03935
Std Dev 1.044
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

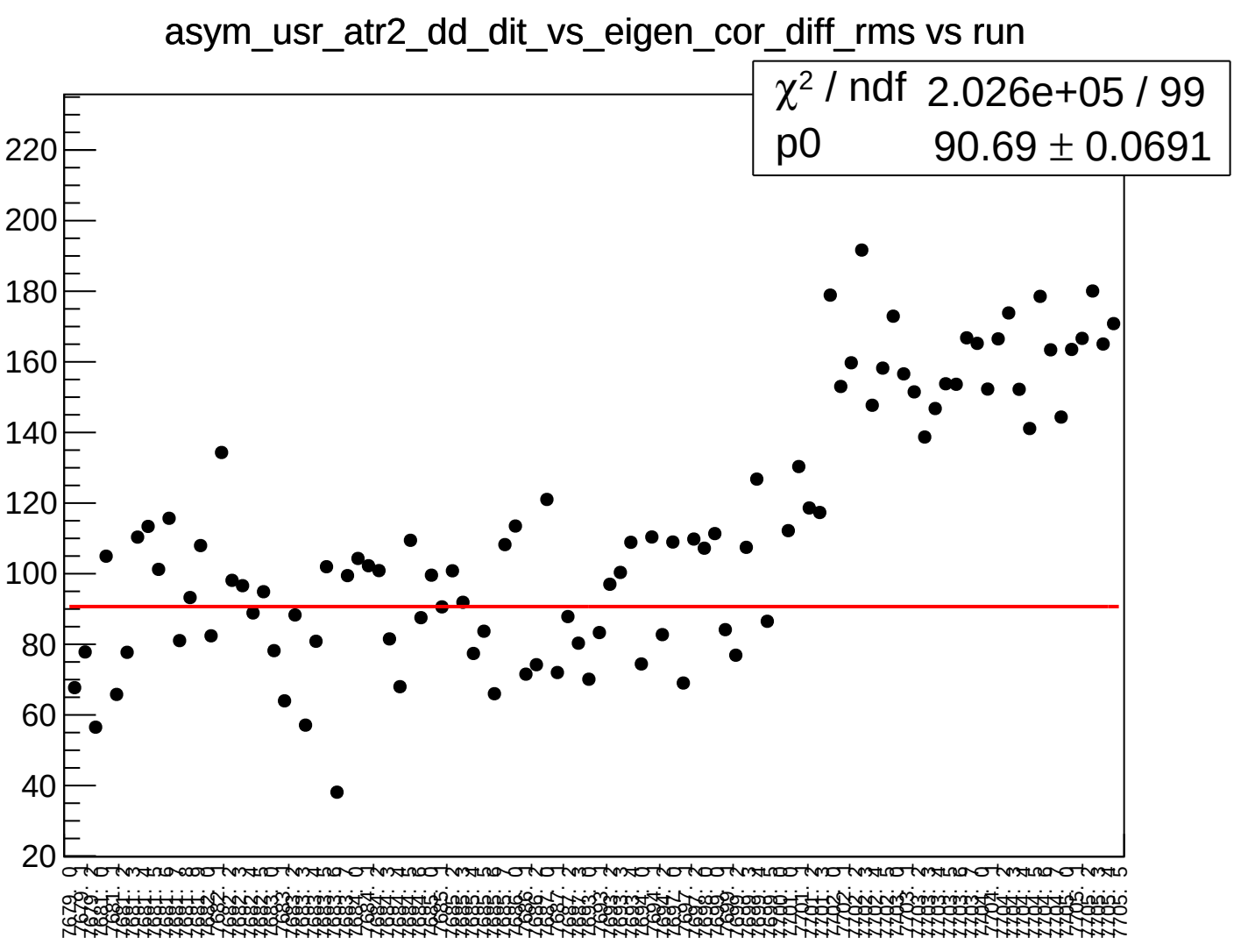

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.216e+06 / 99
p0 1.979e−10 ± 2.349e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

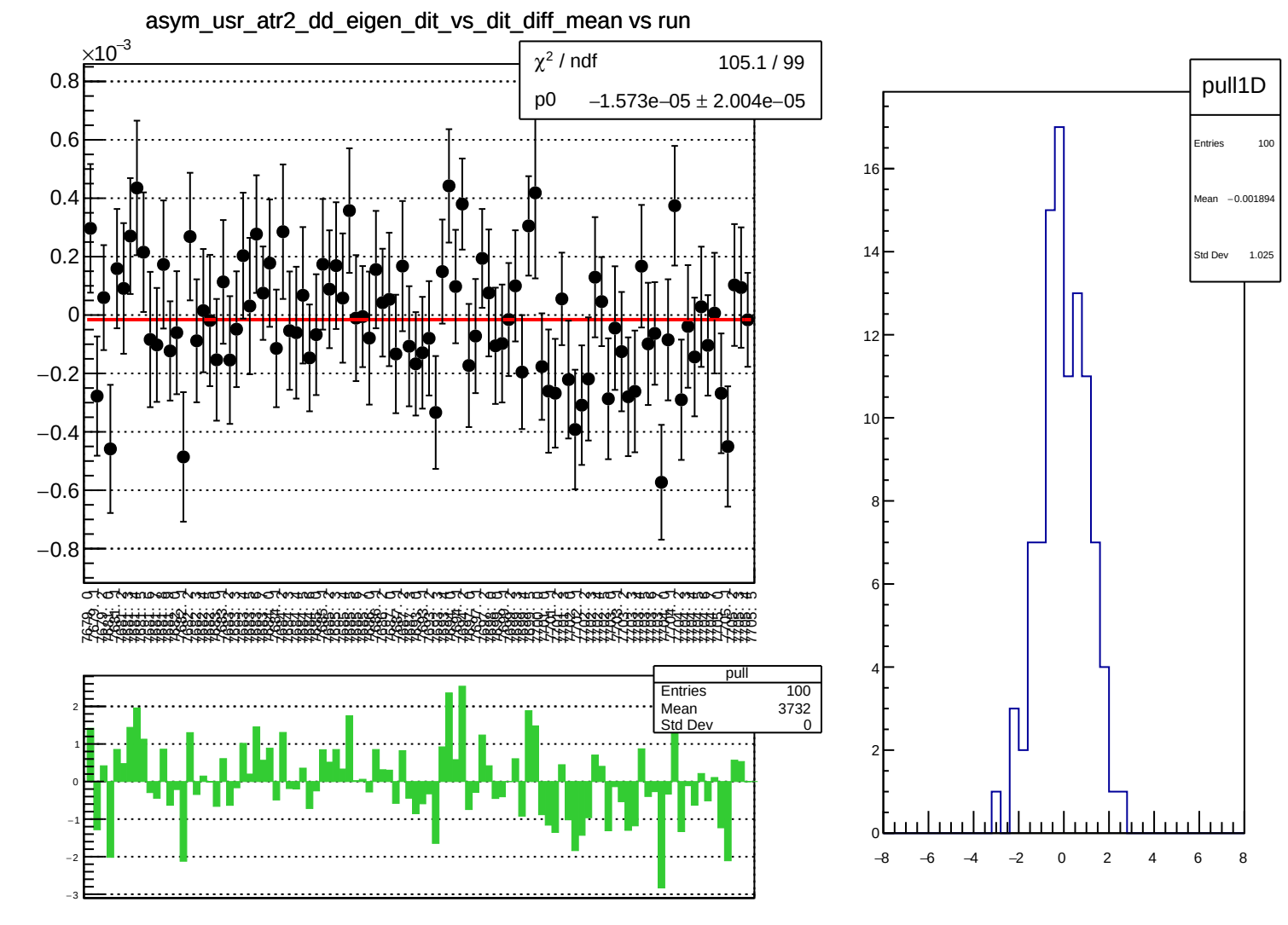

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.98 / 99
p0 0.09107 ± 0.09772
pull
Entries 100
Mean 182.9
Std Dev 0

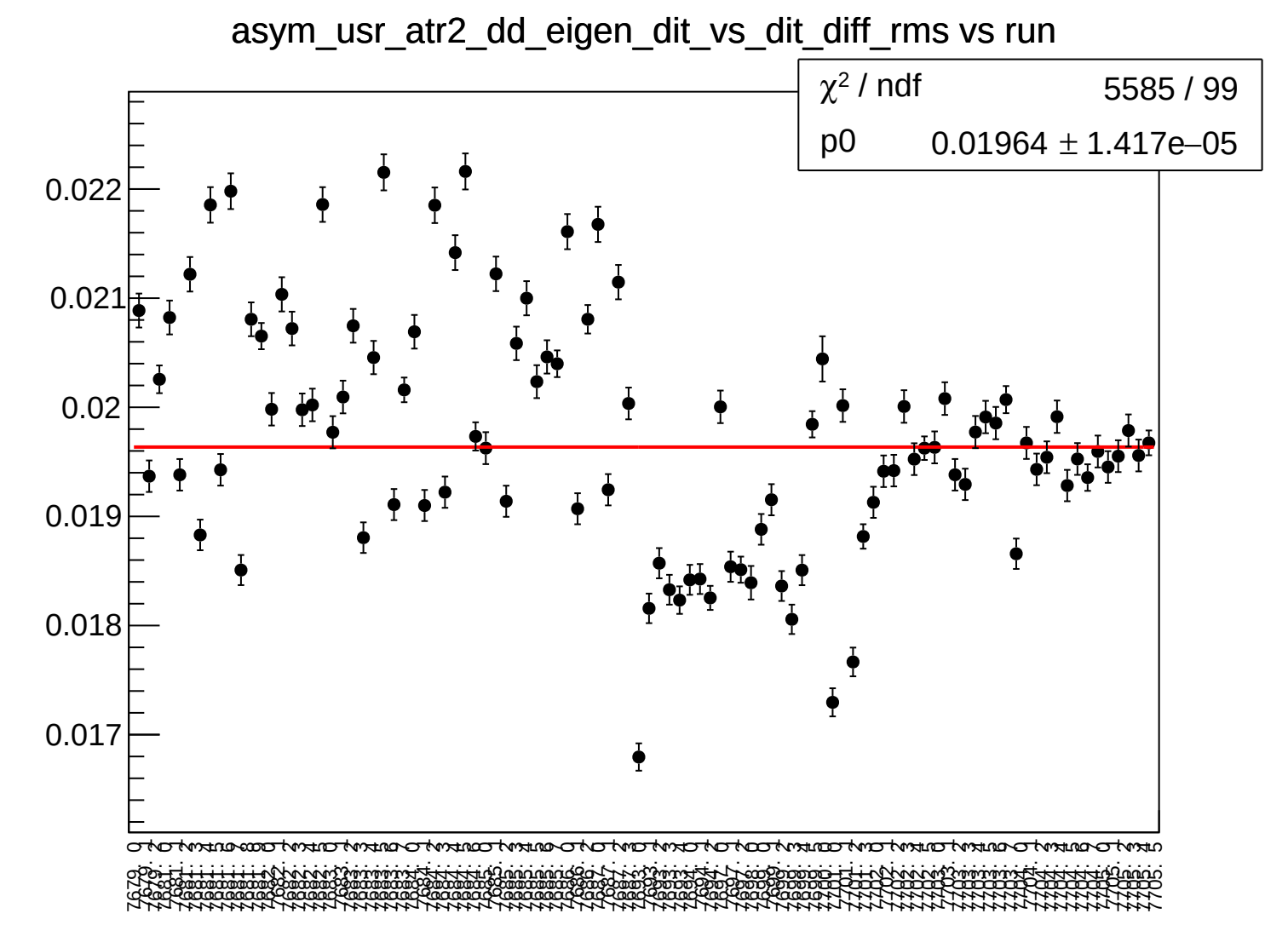

pull1D
Entries 100
Mean 0.01746
Std Dev 0.9589

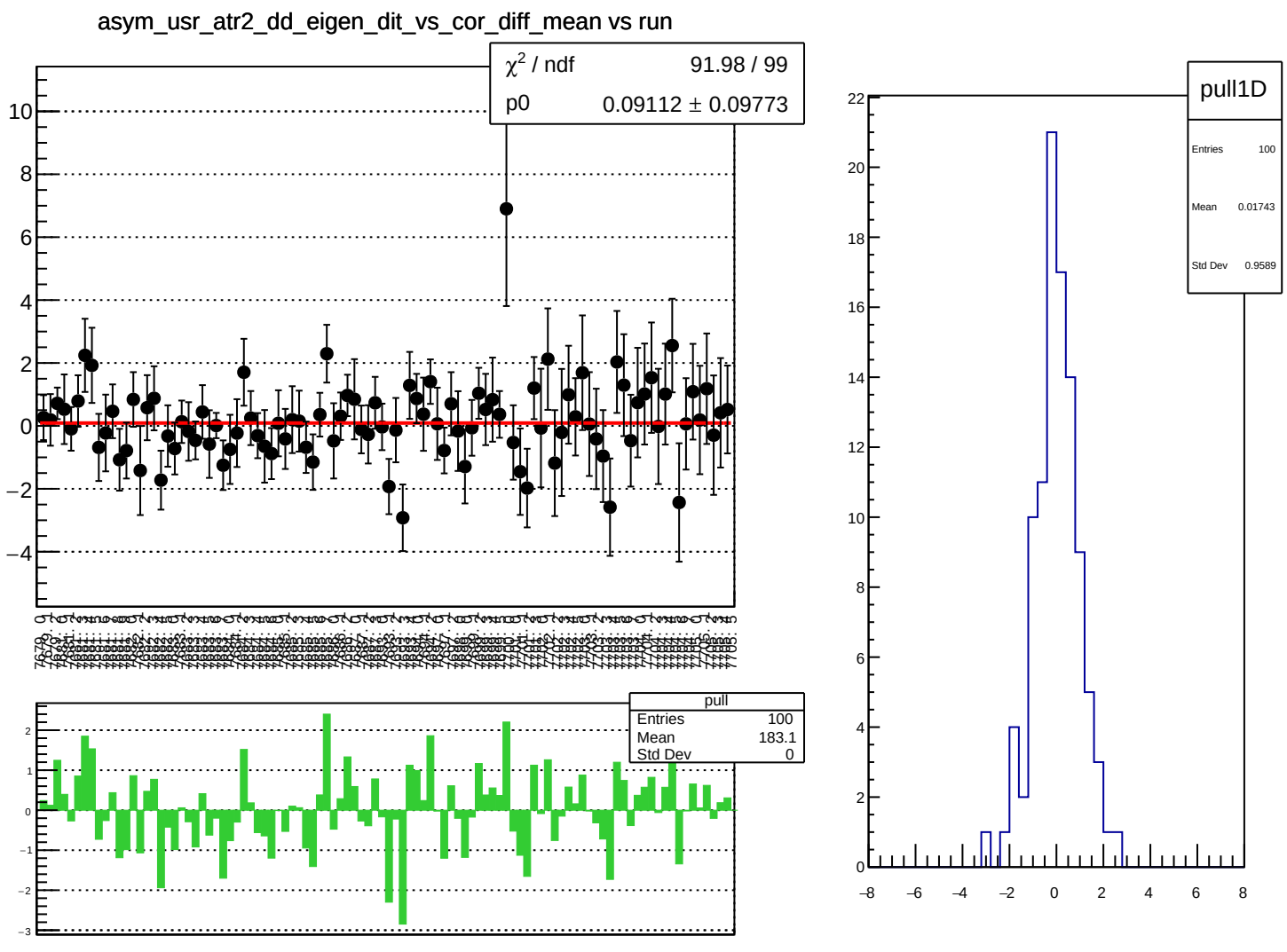

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.026e+05 / 99
p0 90.69 ± 0.0691
220
200
180
160
140
120
100
80
60
40
20

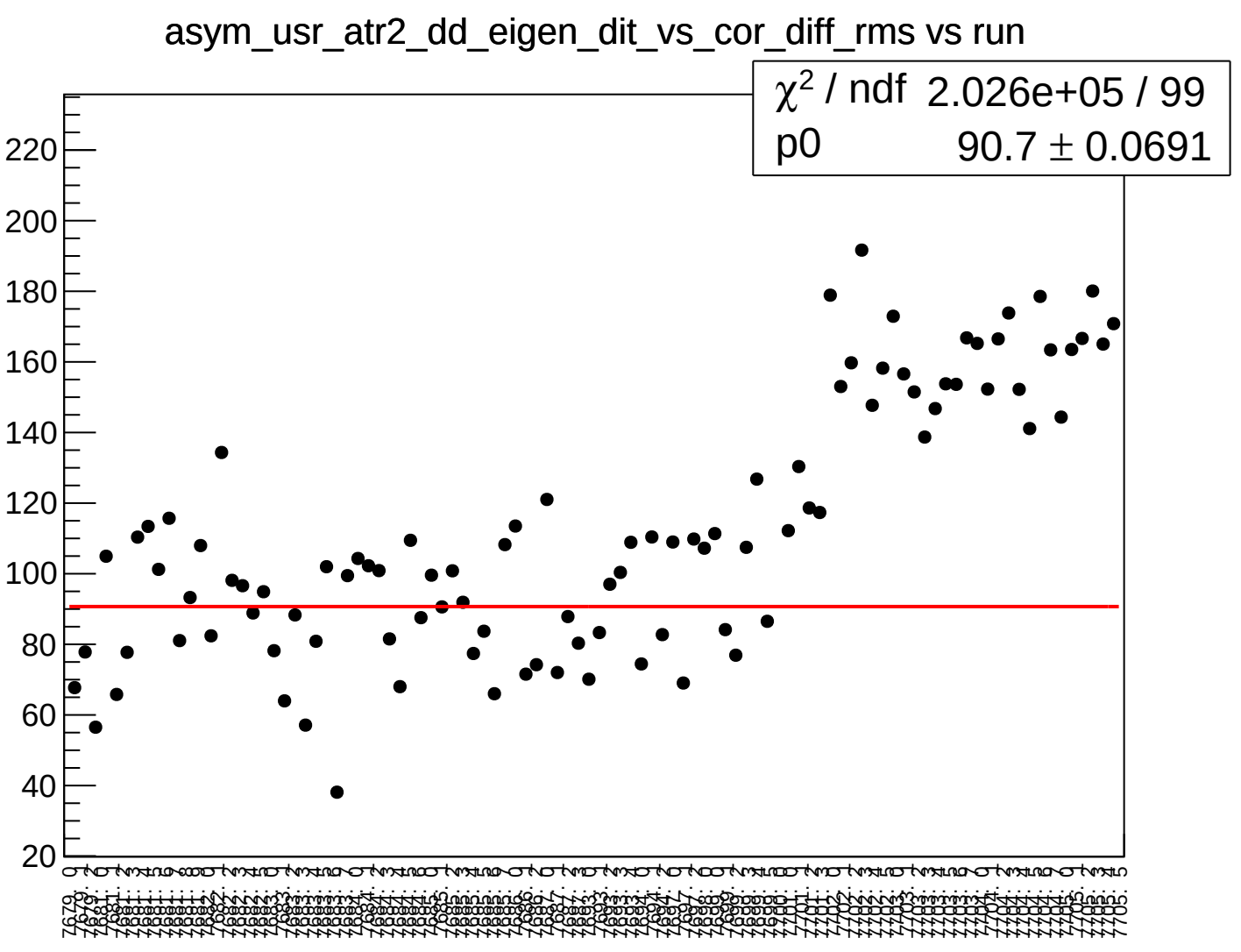

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.98 / 99
p0 0.09107 ± 0.09772
pull
Entries 100
Mean 182.9
Std Dev 0
pull1D
Entries 100
Mean 0.01746
Std Dev 0.9589

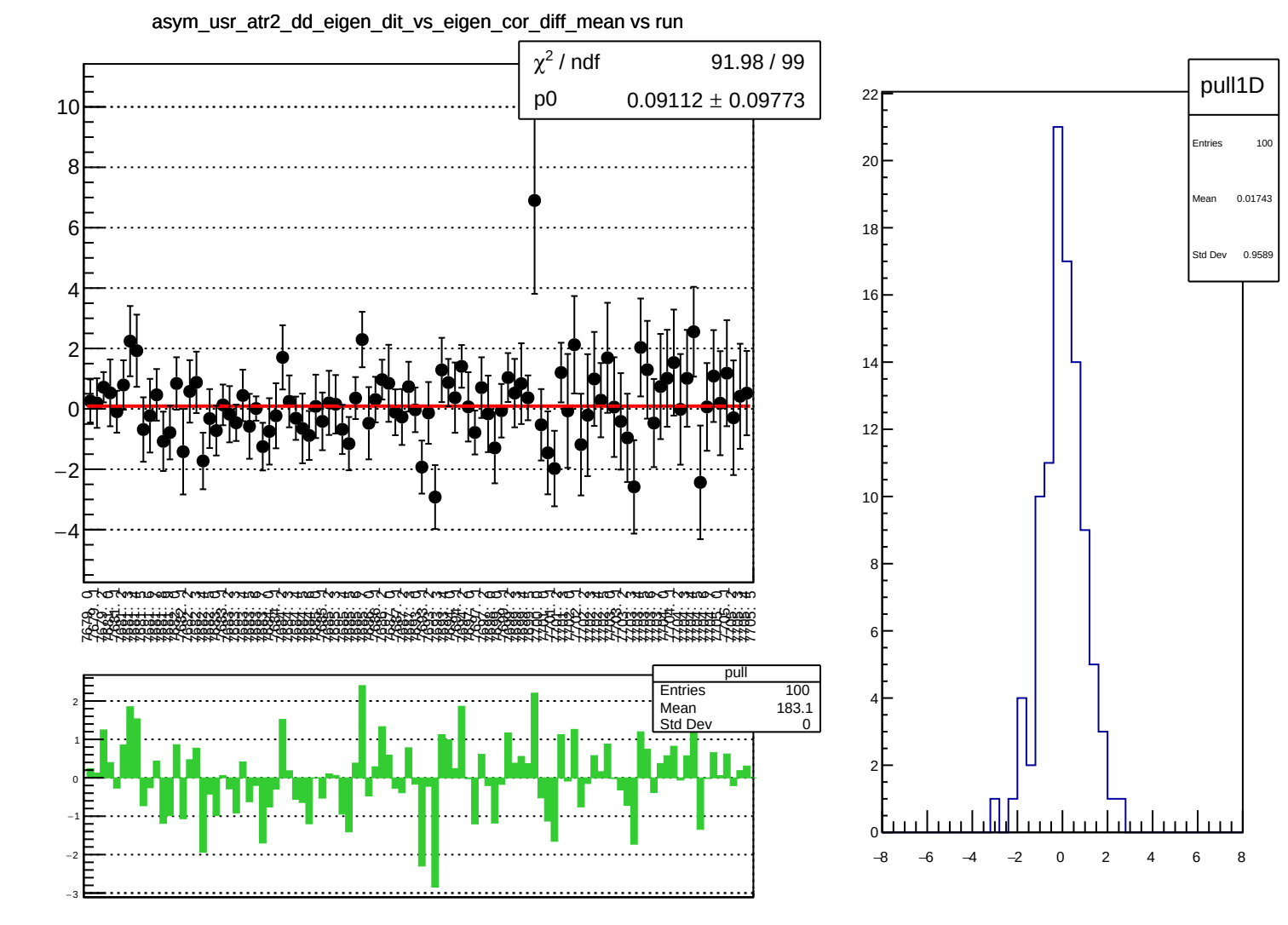

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.026e+05 / 99
p0 90.69 ± 0.0691
220
200
180
160
140
120
100
80
60
40
20

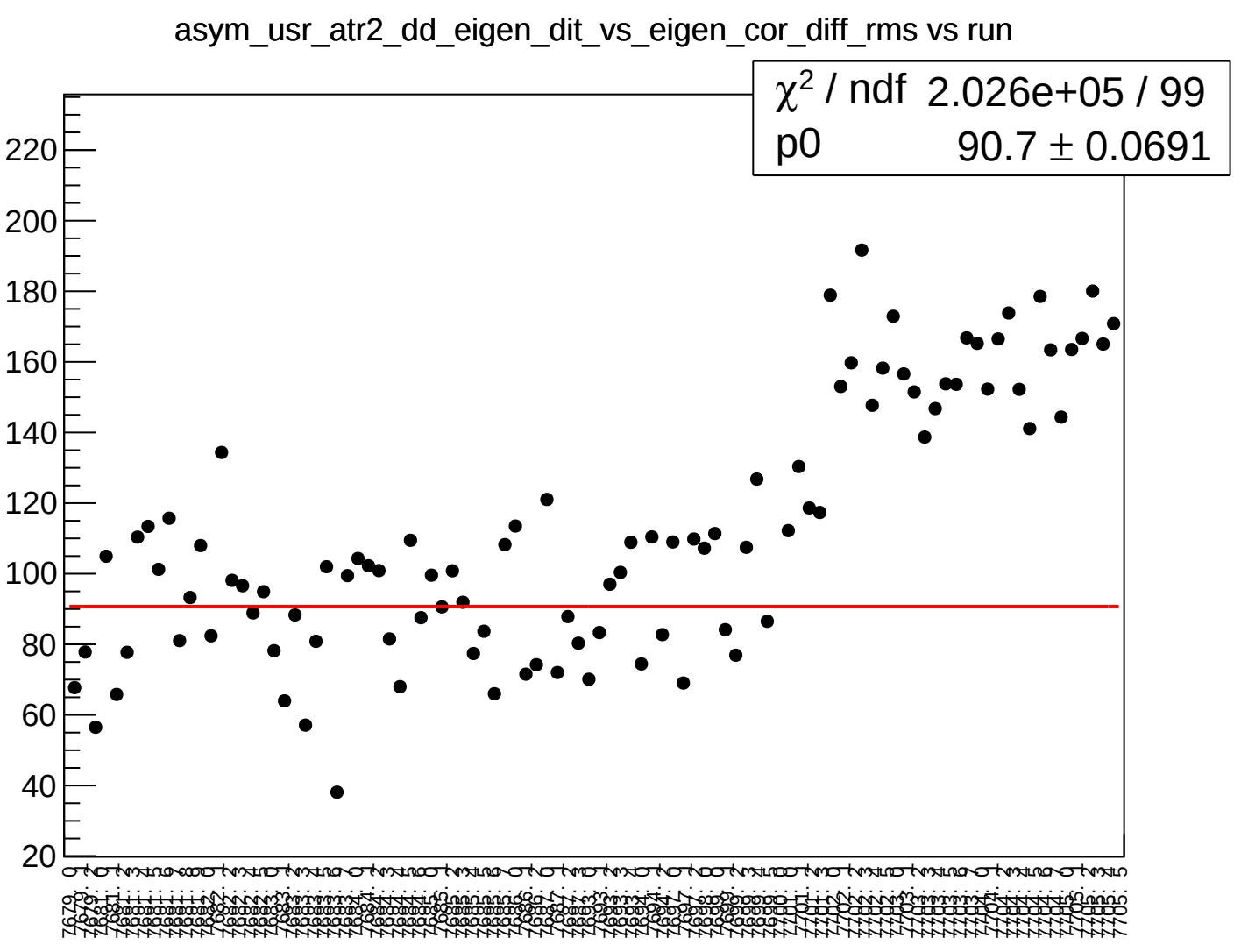

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 105.1 / 99
p0 −1.573e−05 ± 2.004e−05
pull
Entries 100
Mean 3732
Std Dev 0
pull1D
Entries 100
Mean −0.001894
Std Dev 1.025

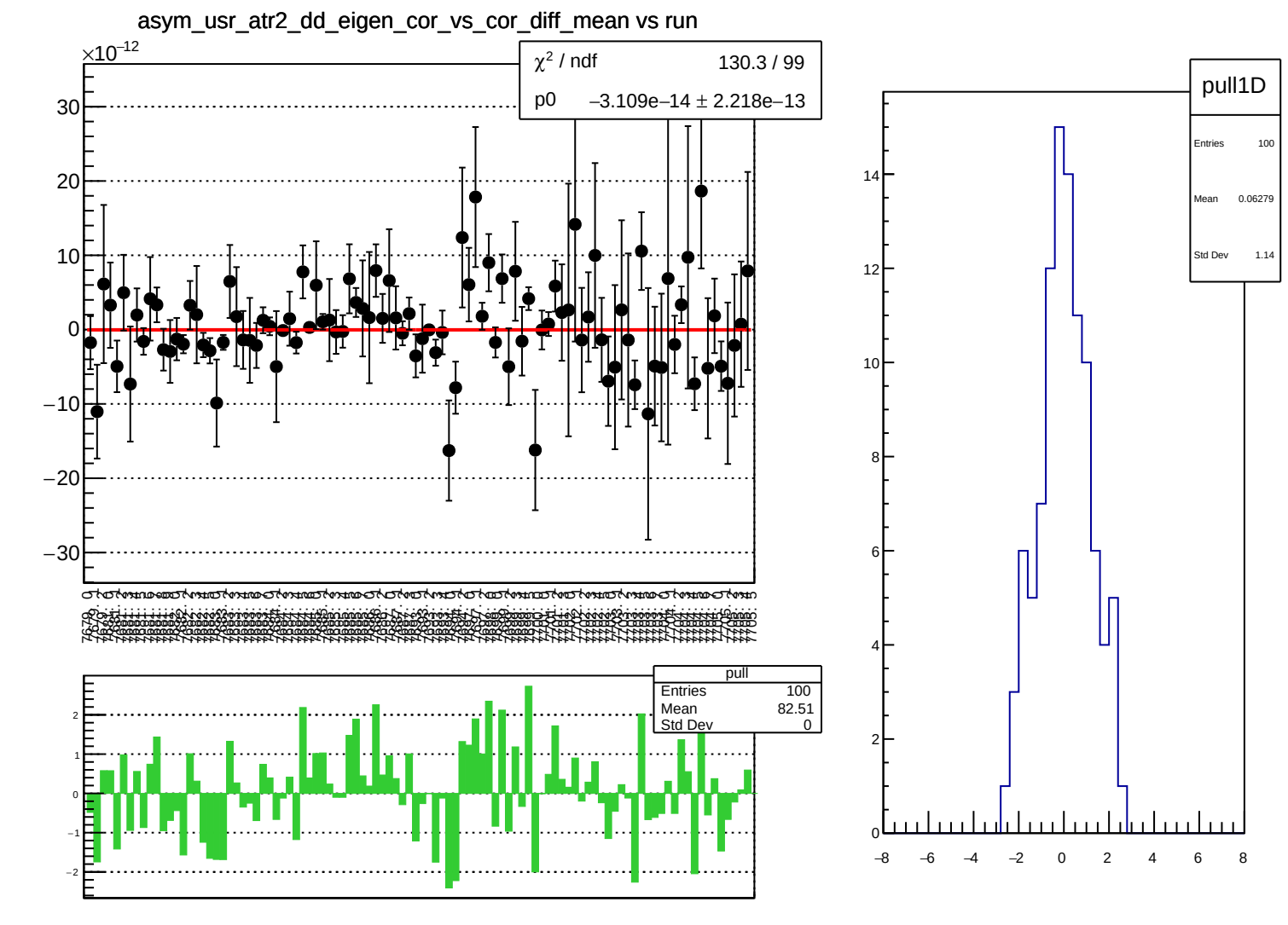

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5585 / 99
p0 0.01964 ± 1.417e−05
0.022
0.021
0.02
0.019
0.018
0.017

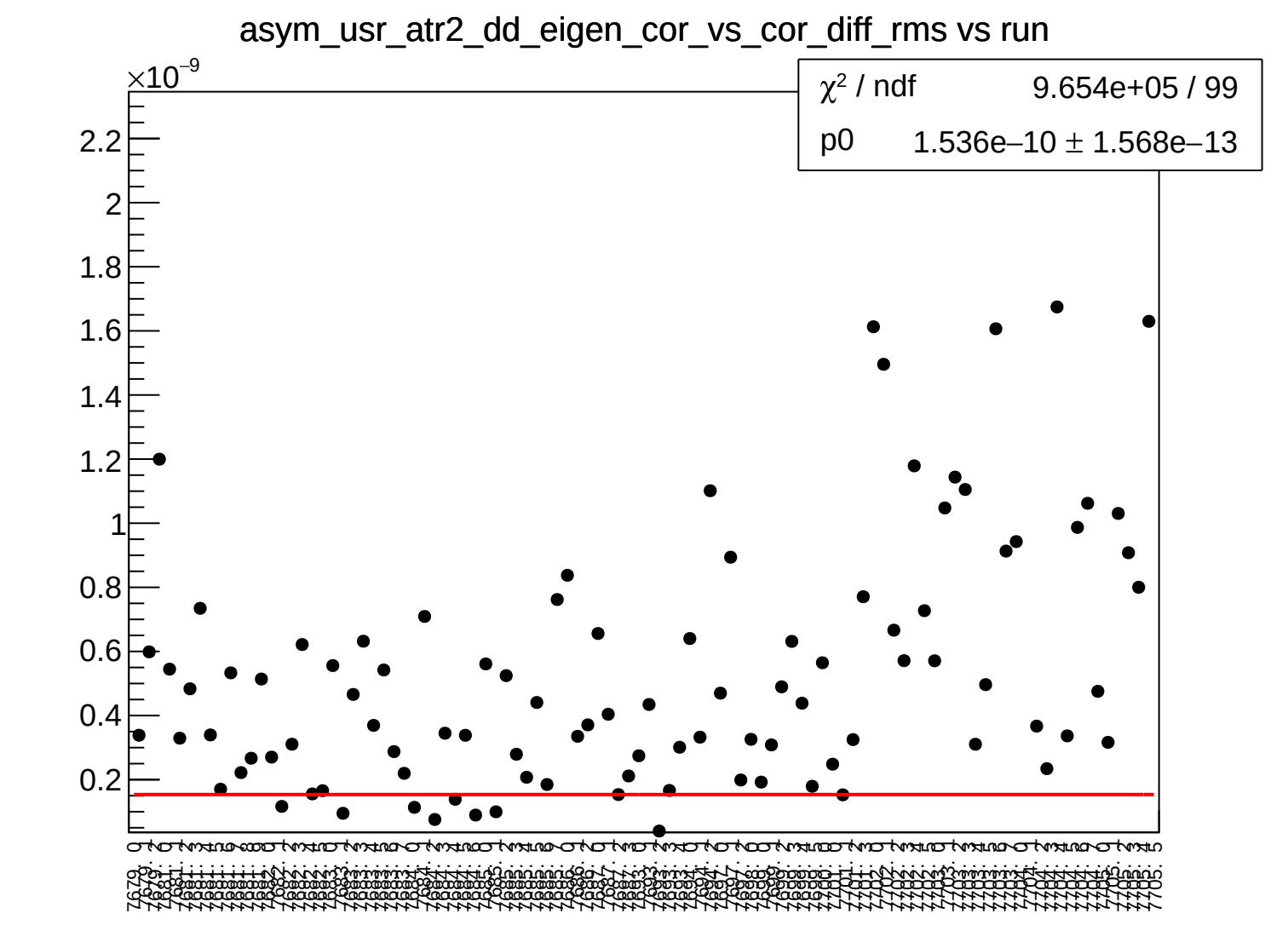

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.98 / 99
p0 0.09112 ± 0.09773
pull
Entries 100
Mean 183.1
Std Dev 0
pull1D
Entries 100
Mean 0.01743
Std Dev 0.9589

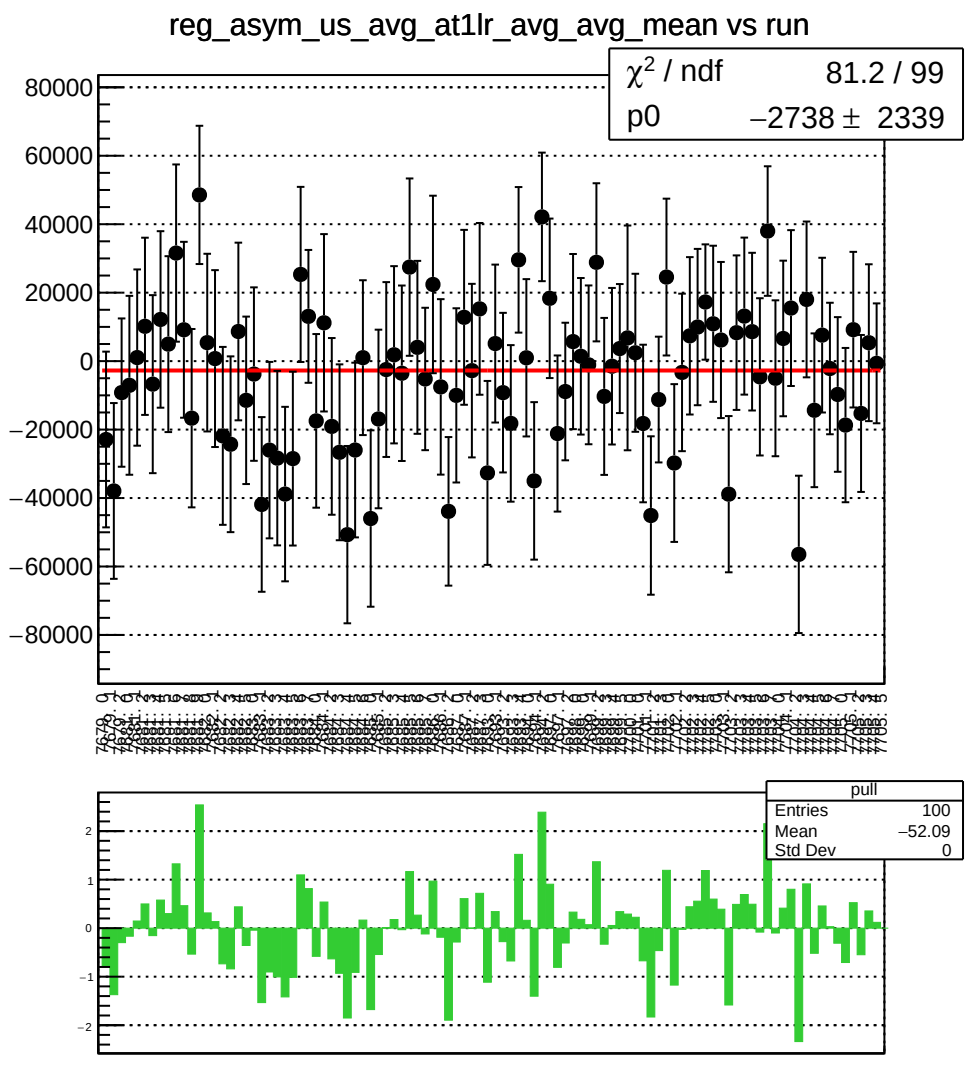

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.026e+05 / 99
p0 90.7 ± 0.0691
220
200
180
160
140
120
100
80
60
40
20

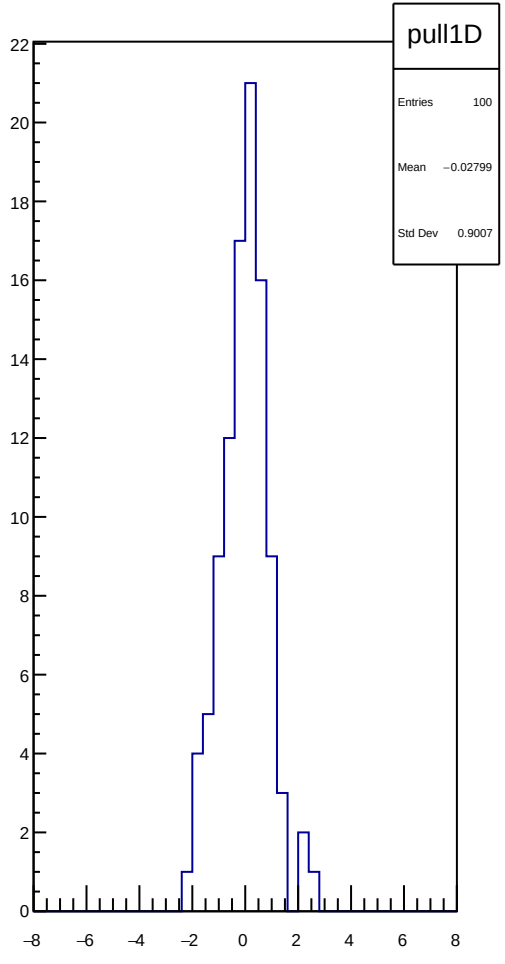

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.98 / 99
p0 0.09112 ± 0.09773
pull
Entries 100
Mean 183.1
Std Dev 0
pull1D
Entries 100
Mean 0.01743
Std Dev 0.9589

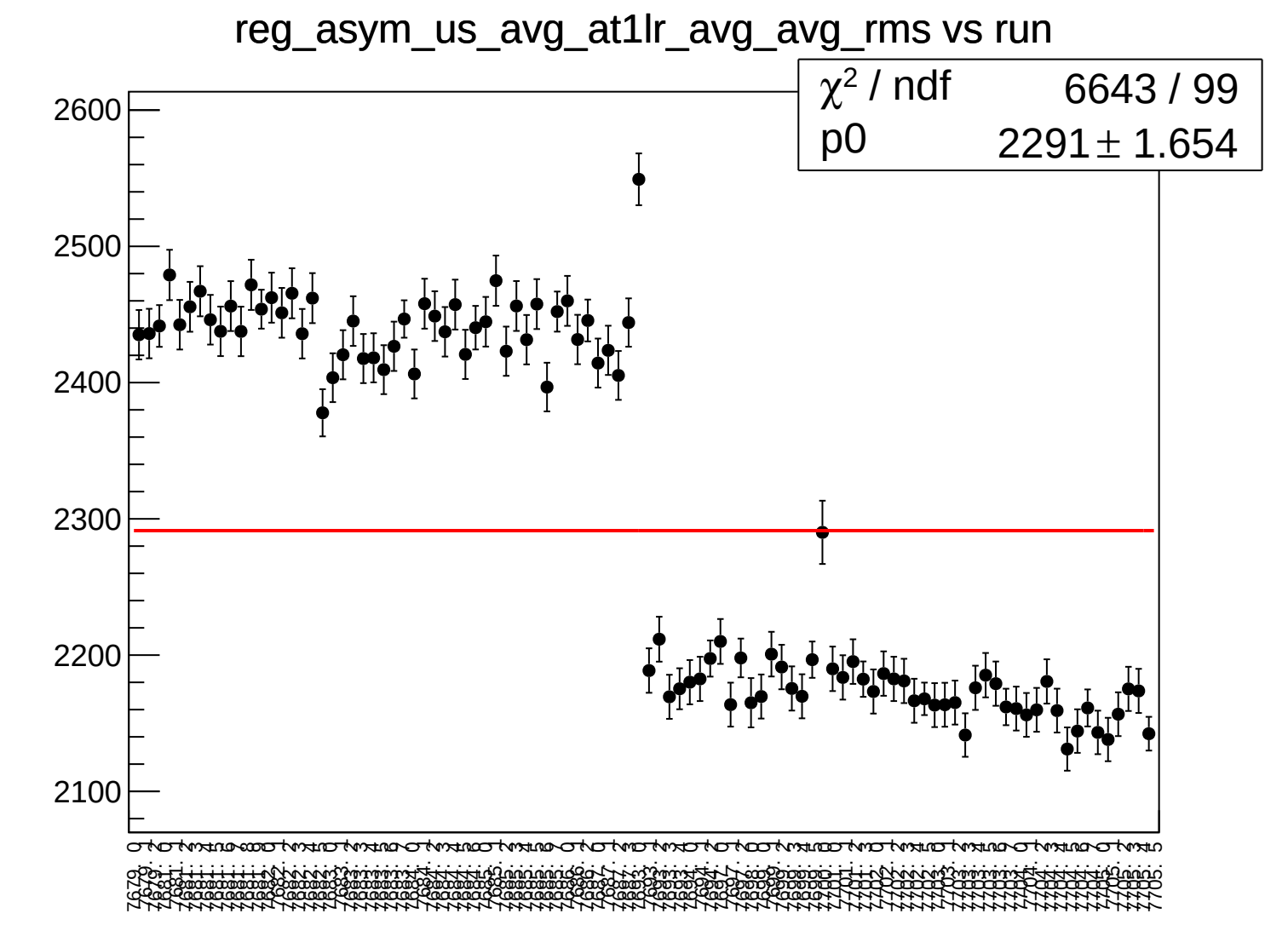

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.026e+05 / 99
p0 90.7 ± 0.0691
220
200
180
160
140
120
100
80
60
40
20

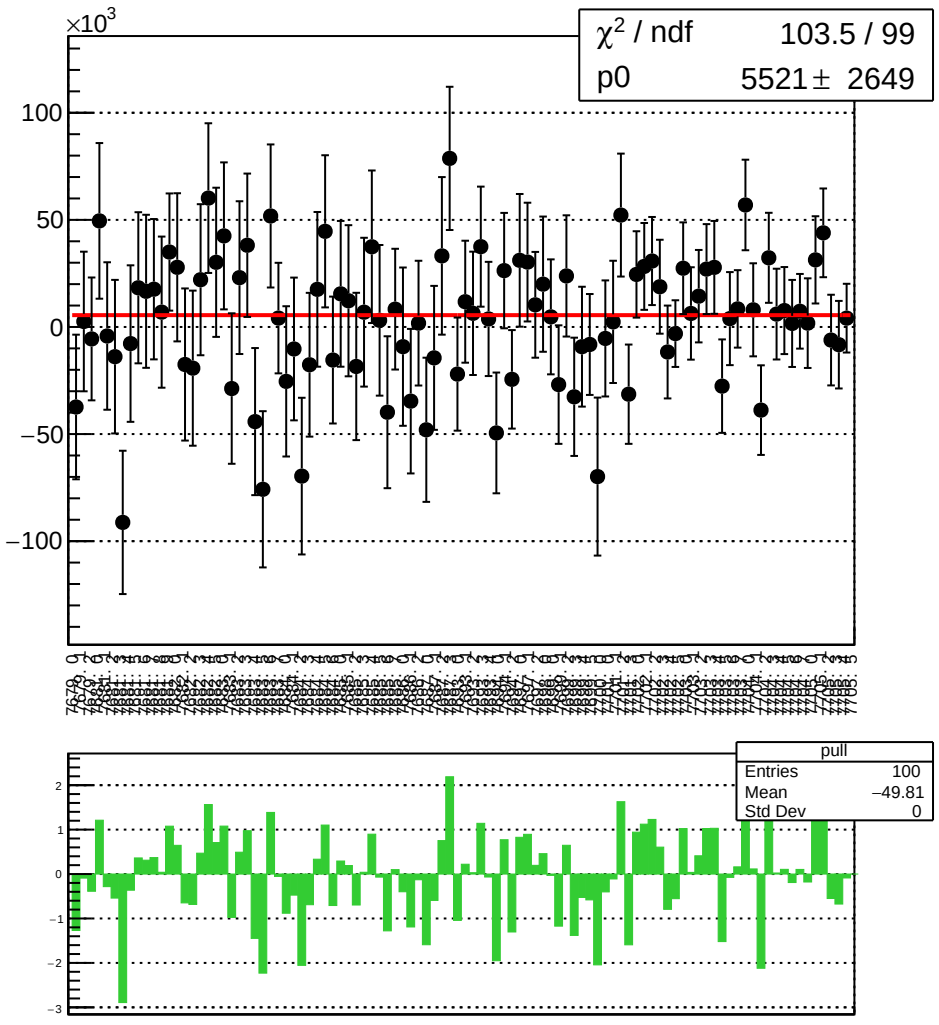

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 130.3 / 99
p0 −3.109e−14 ± 2.218e−13
30
20
10
0
−10
−20
−30
pull
Entries 100
Mean 82.51
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.06279
Std Dev 1.14
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

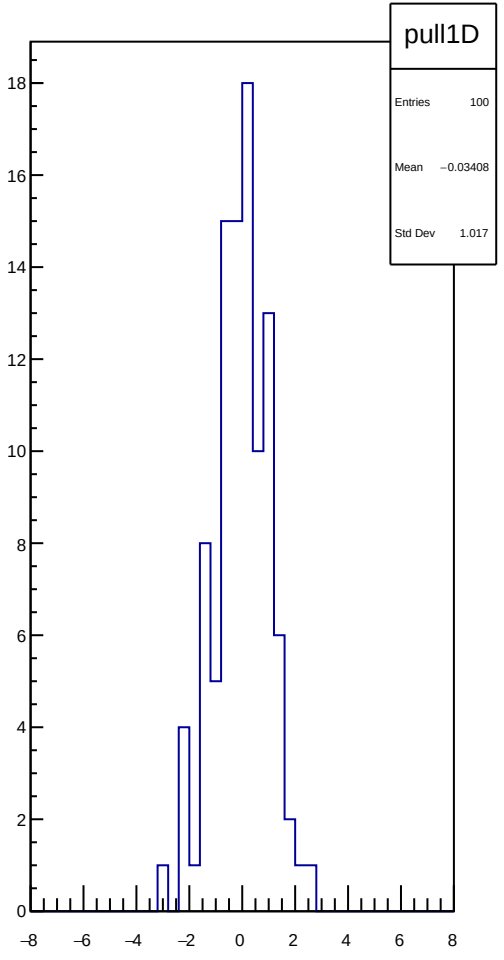

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.654e+05 / 99
p0 1.536e−10 ± 1.568e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2


reg_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 81.2 / 99
p0 −2738 ± 2339
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −52.09
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 100
Mean −0.02799
Std Dev 0.9007
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 6643 / 99
p0 2291 ± 1.654
2600
2500
2400
2300
2200
2100


asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 103.5 / 99
p0 5521 ± 2649
100
50
0
−50
−100
pull
Entries 100
Mean −49.81
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 100
Mean −0.03408
Std Dev 1.017
18
16
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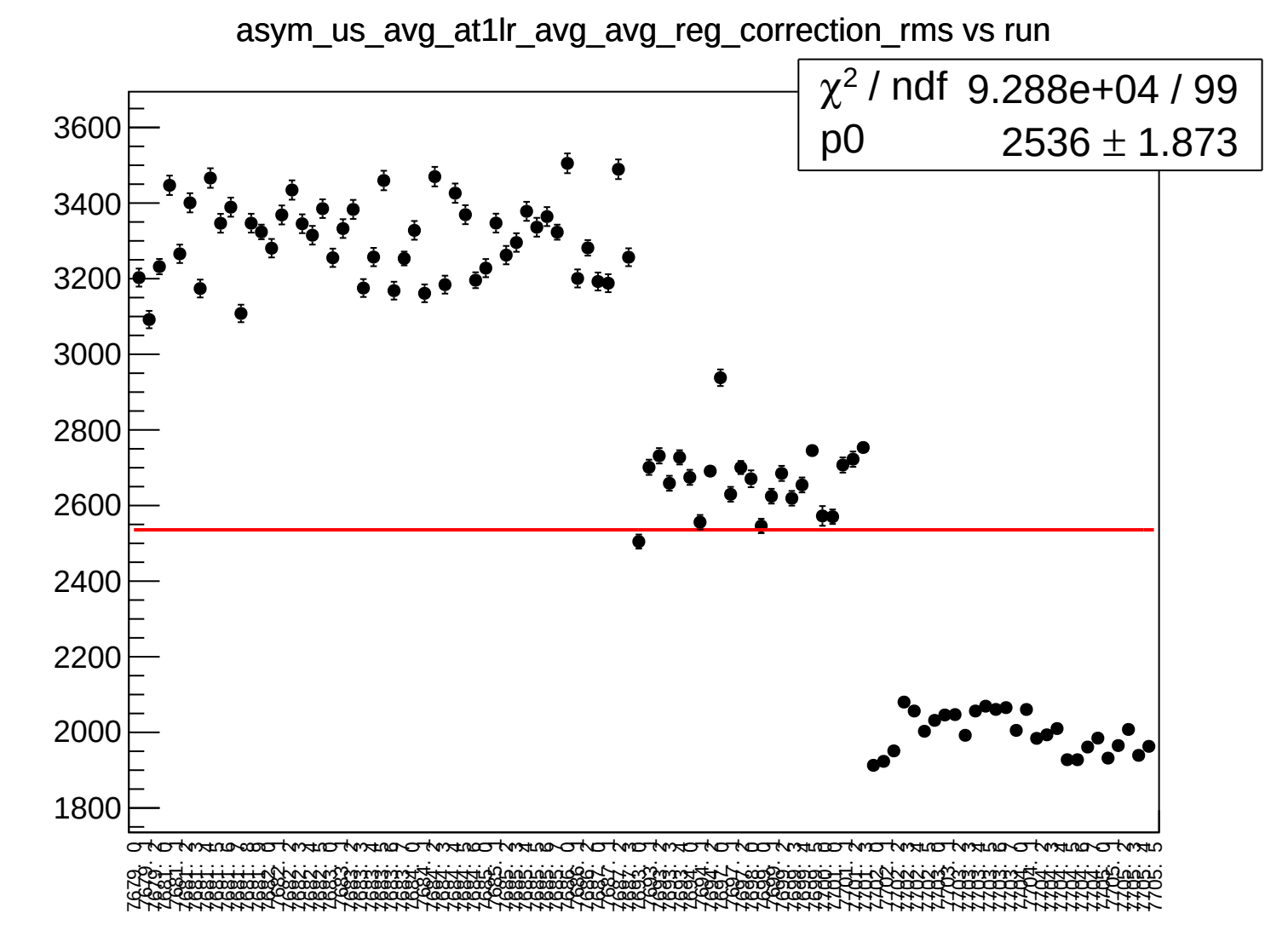
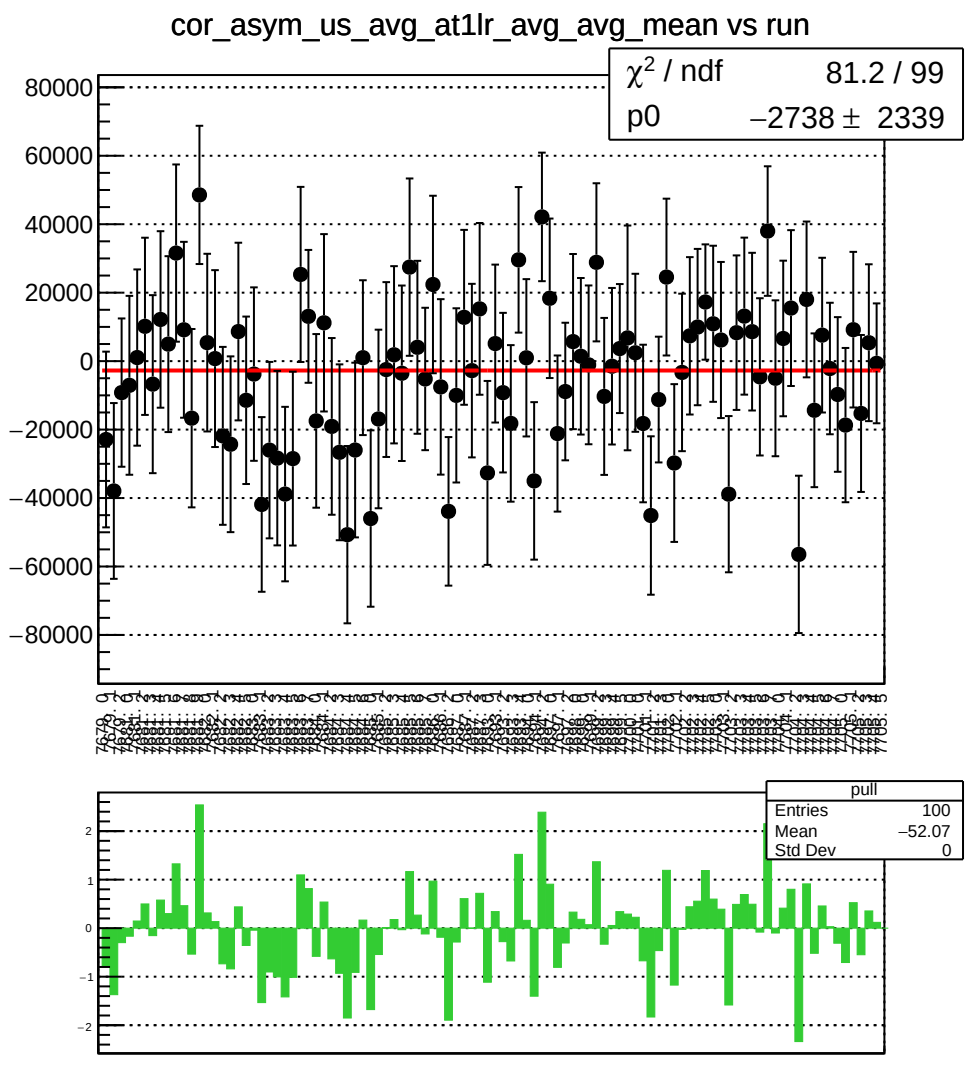
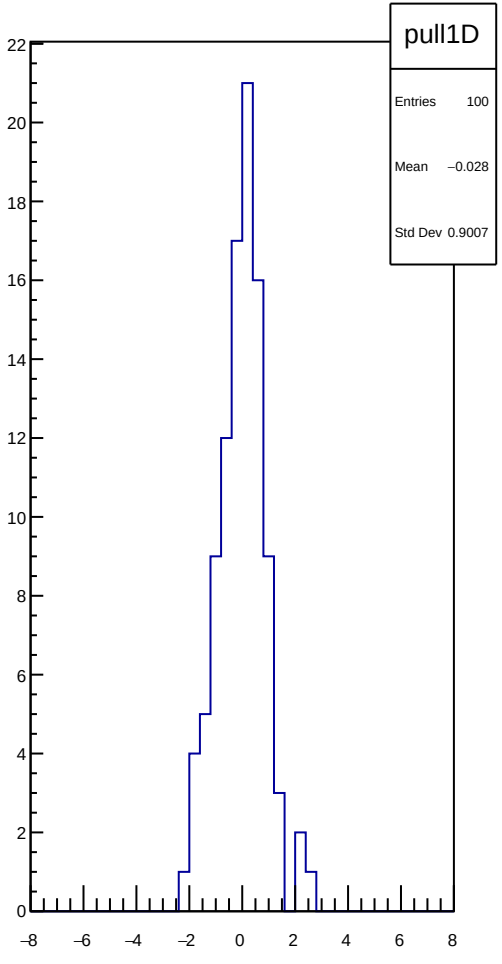
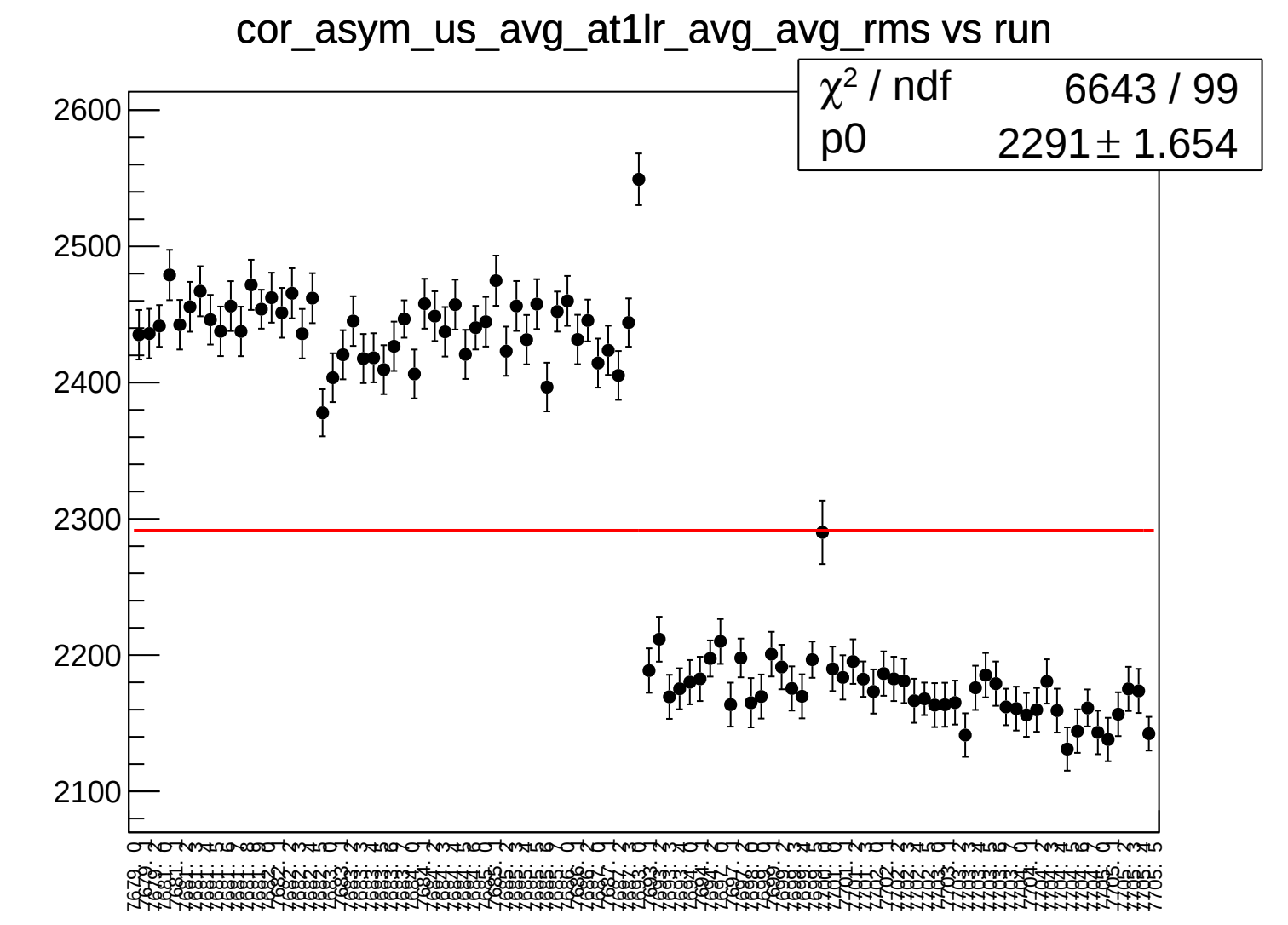
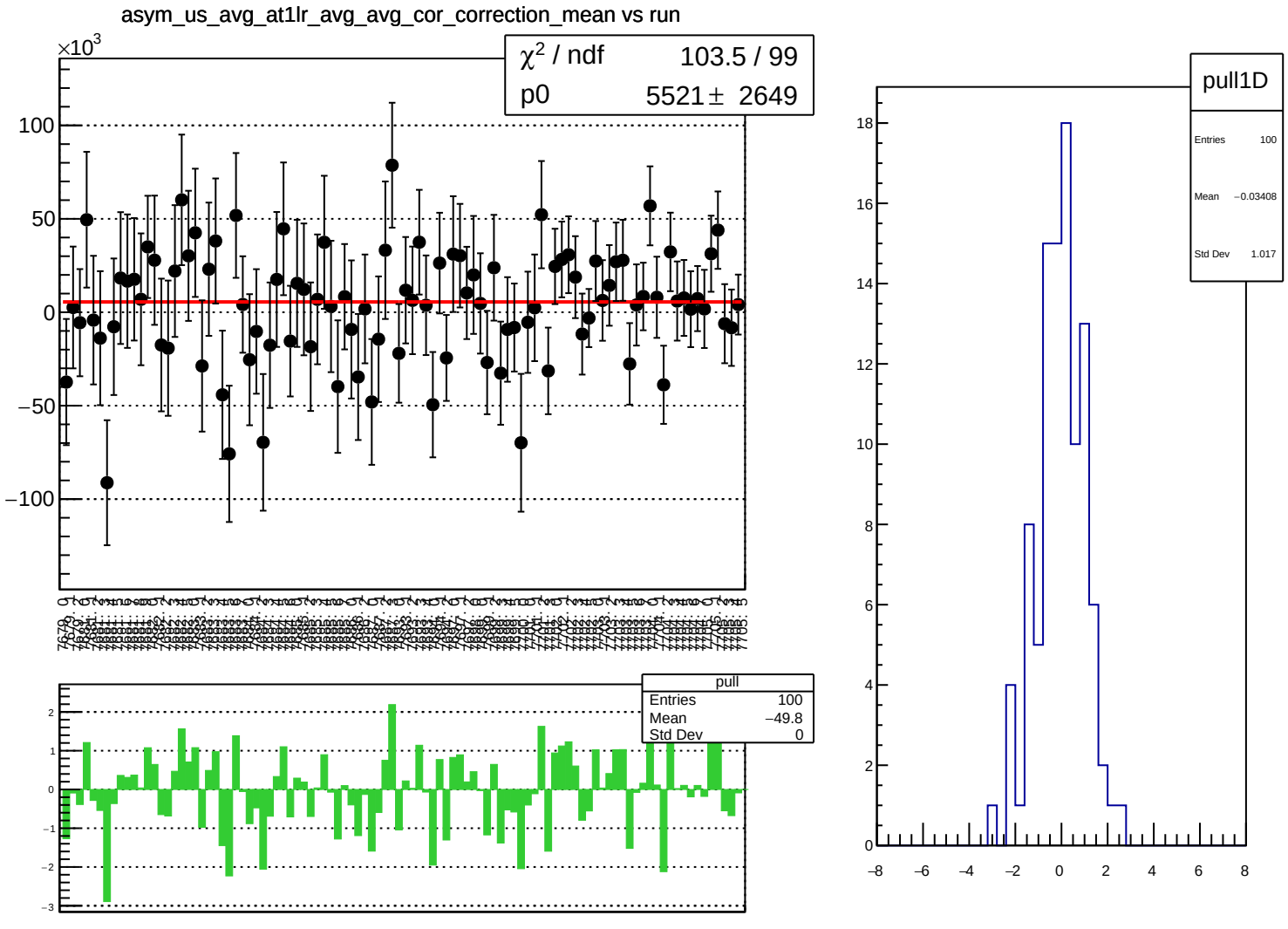
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

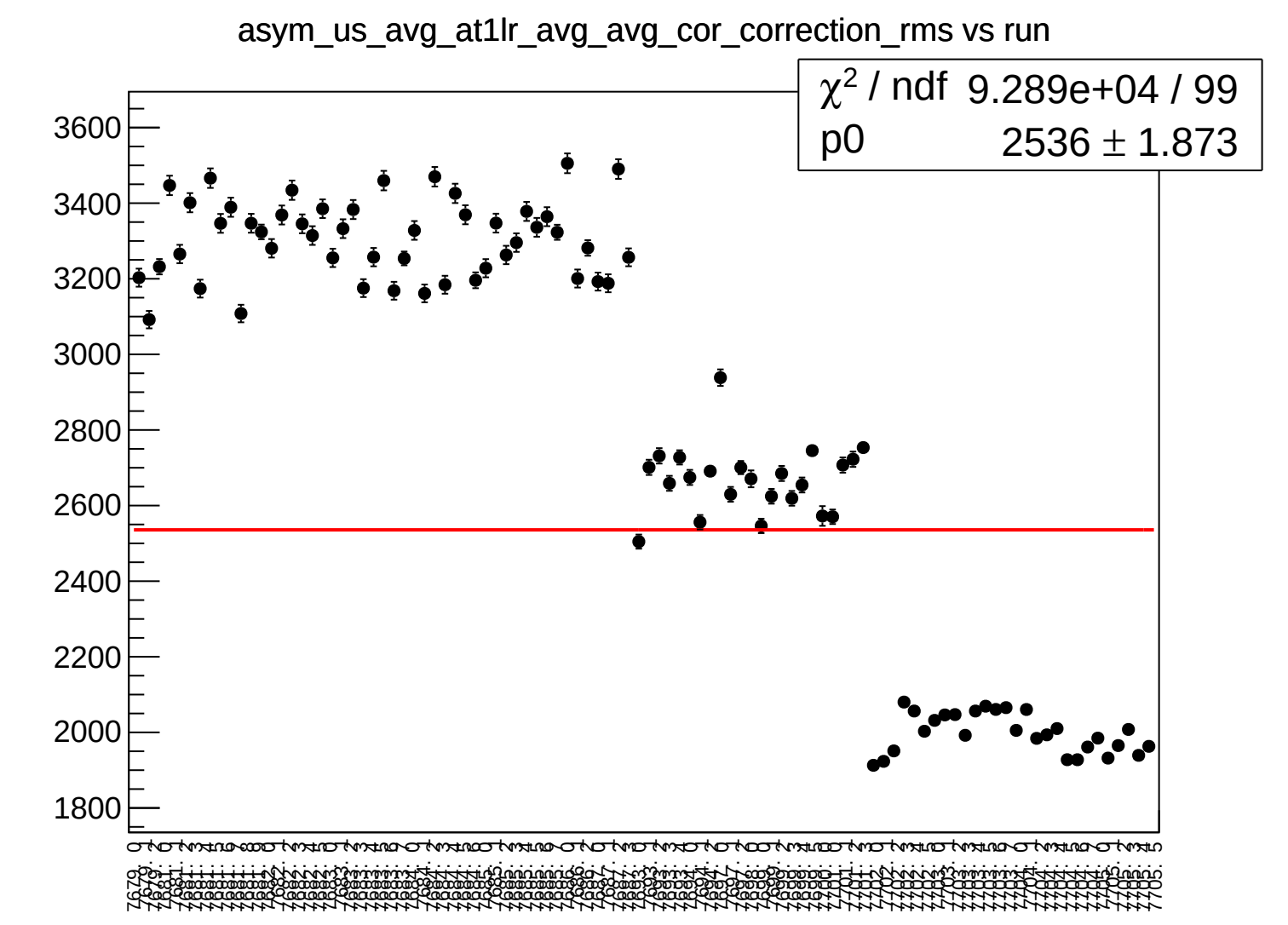

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 9.288e+04 / 99
p0 2536 ± 1.873
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

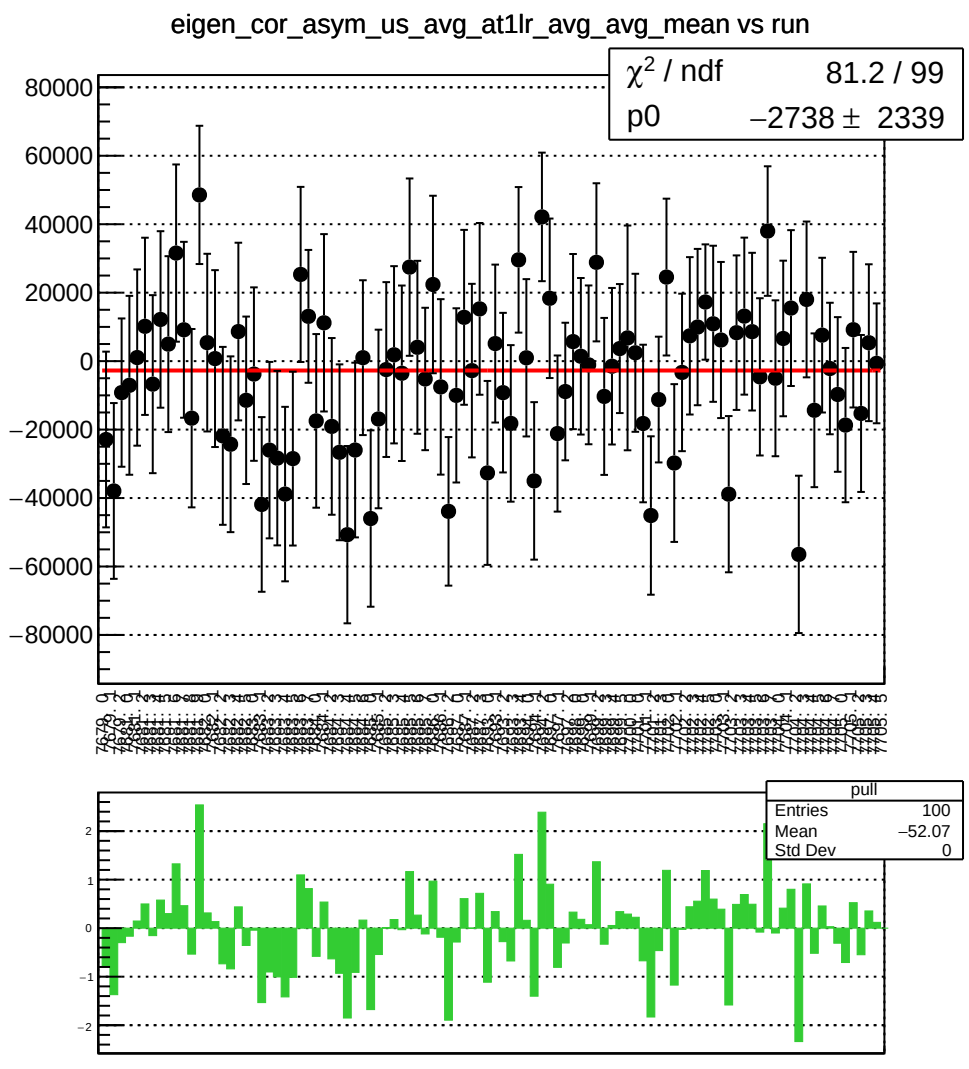

cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 81.2 / 99
p0 −2738 ± 2339
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −52.07
Std Dev 0
2
1
0
−1
−2

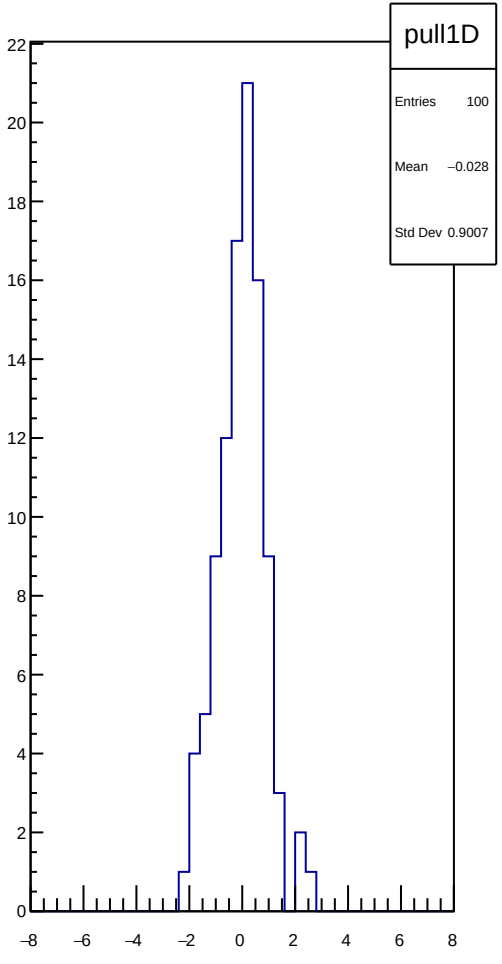

pull1D
Entries 100
Mean −0.028
Std Dev 0.9007
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 6643 / 99
p0 2291 ± 1.654
2600
2500
2400
2300
2200
2100


asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 103.5 / 99
p0 5521 ± 2649
100
50
0
−50
−100
pull
Entries 100
Mean −49.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean −0.03408
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 9.289e+04 / 99
p0 2536 ± 1.873
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800


eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 81.2 / 99
p0 −2738 ± 2339
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −52.07
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 100
Mean −0.028
Std Dev 0.9007
22
20
18
16
14
12
10
8
6
4
2
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−4
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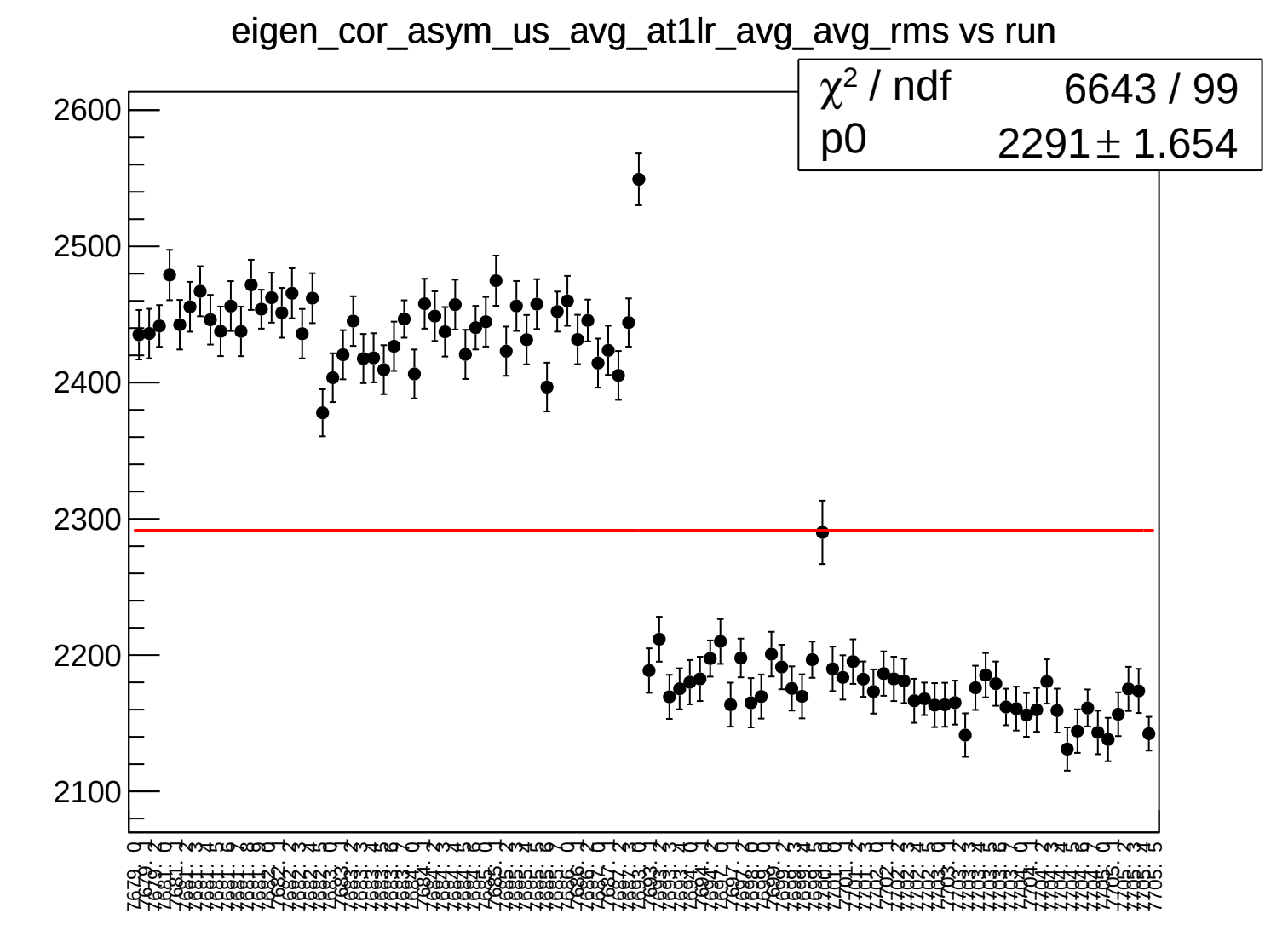
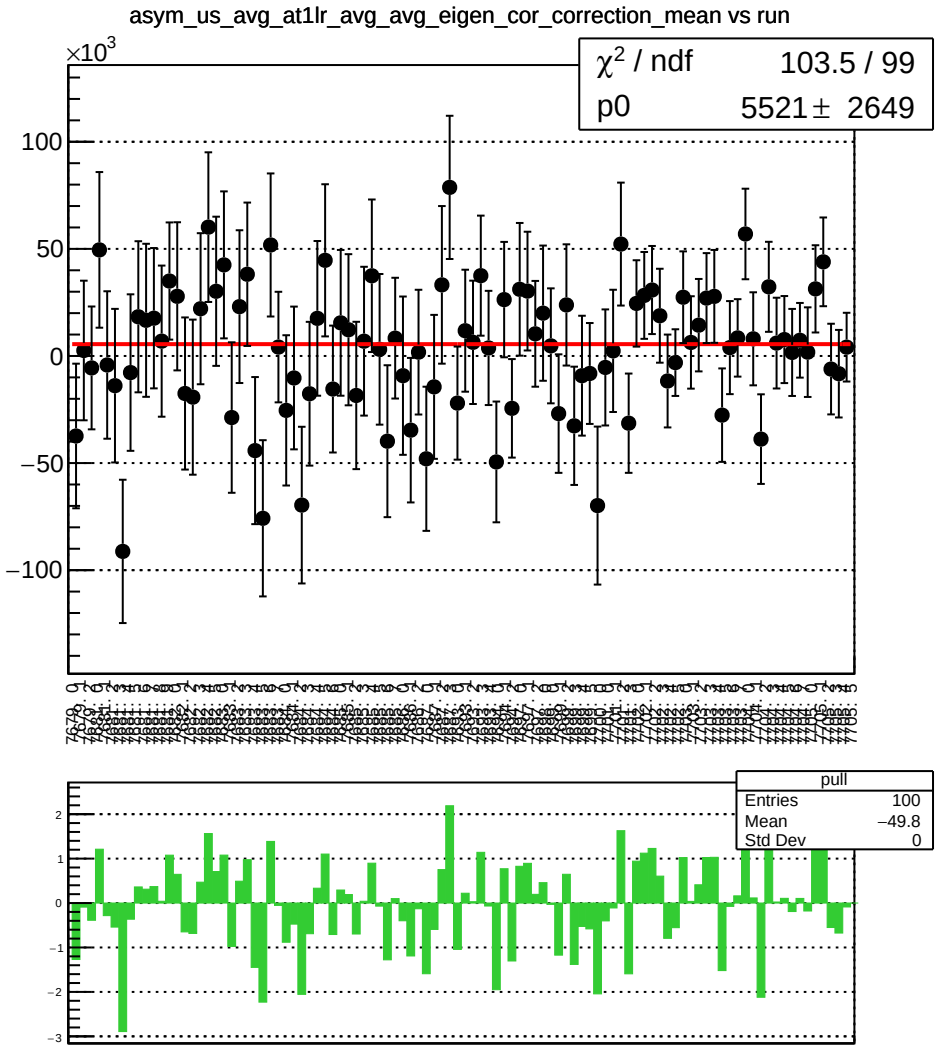
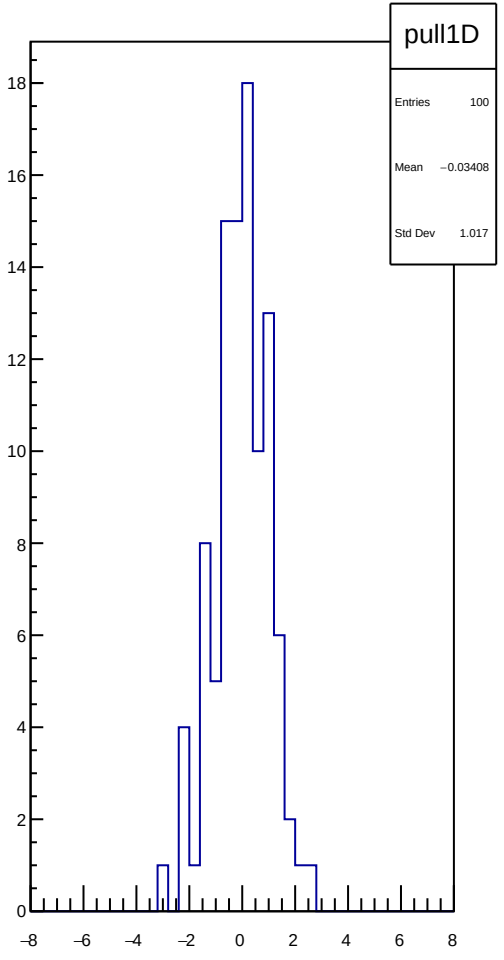
2
4
6
8


eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 6643 / 99
p0 2291 ± 1.654
2600
2500
2400
2300
2200
2100


asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 103.5 / 99
p0 5521 ± 2649
100
50
0
−50
−100
pull
Entries 100
Mean −49.8
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 100
Mean −0.03408
Std Dev 1.017
18
16
14
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6
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2
0
−8
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2
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6
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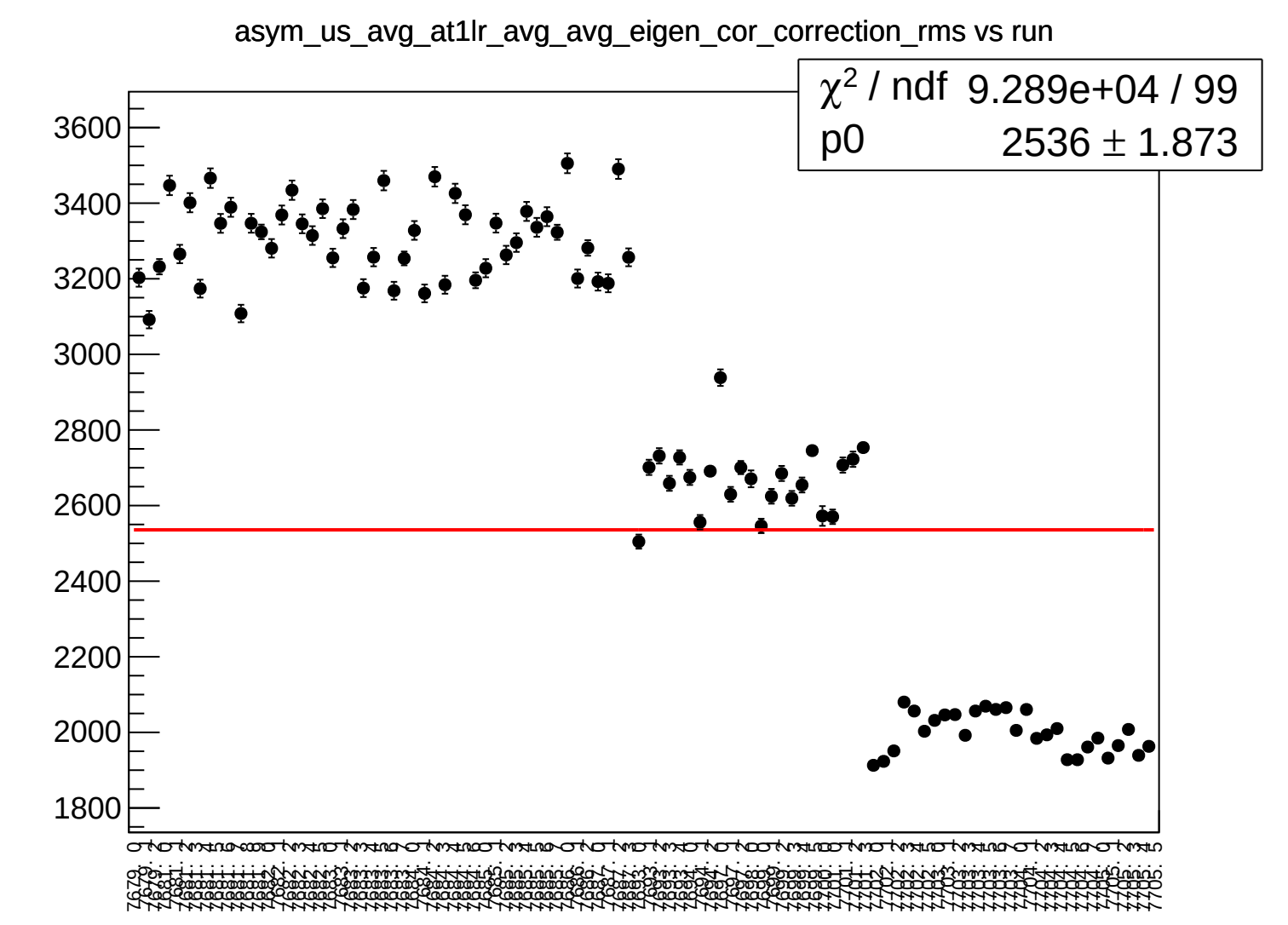
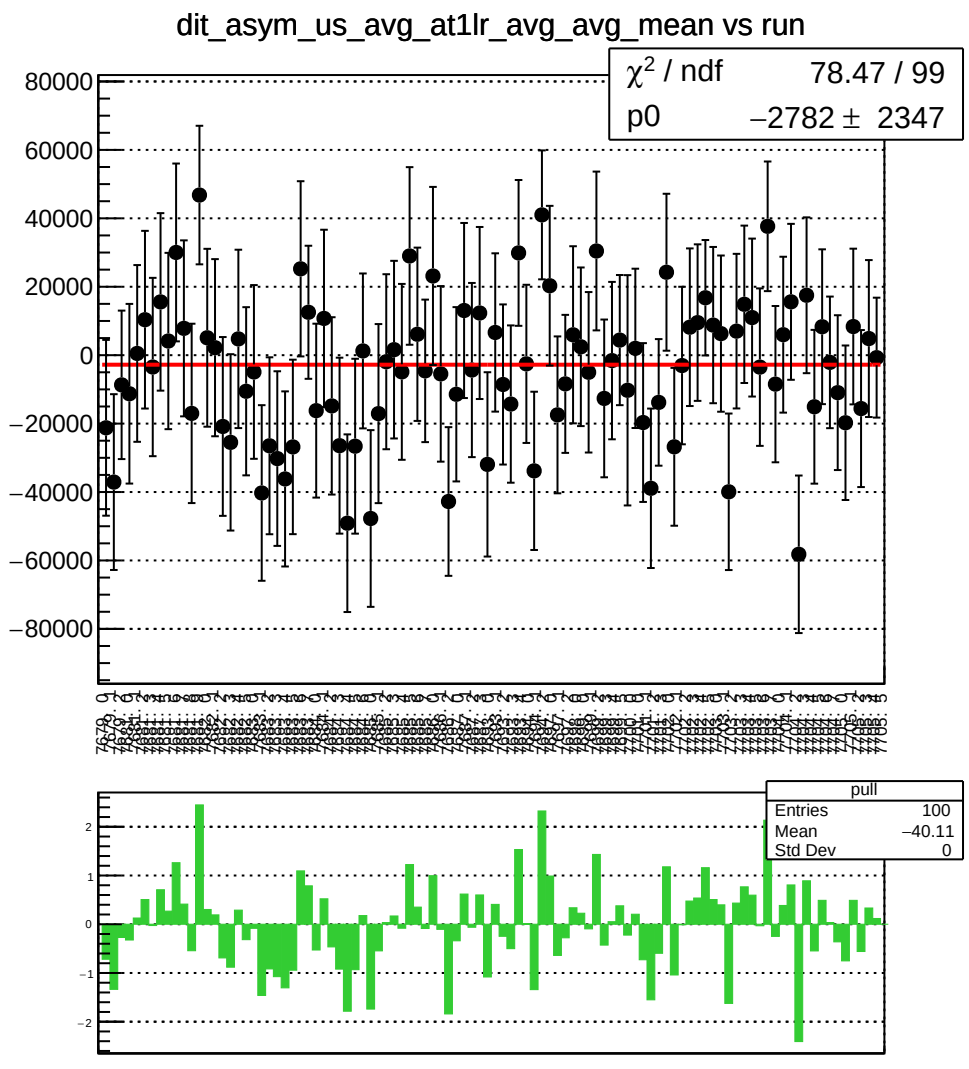
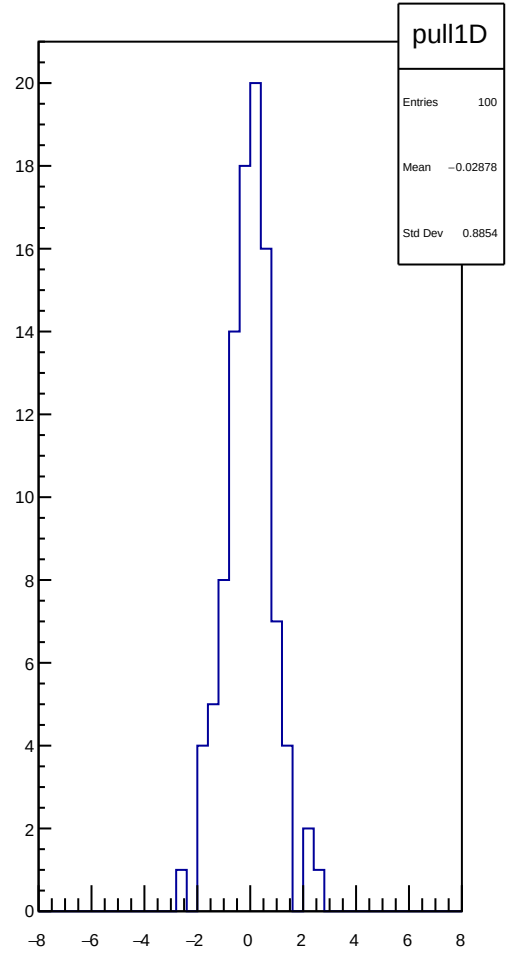
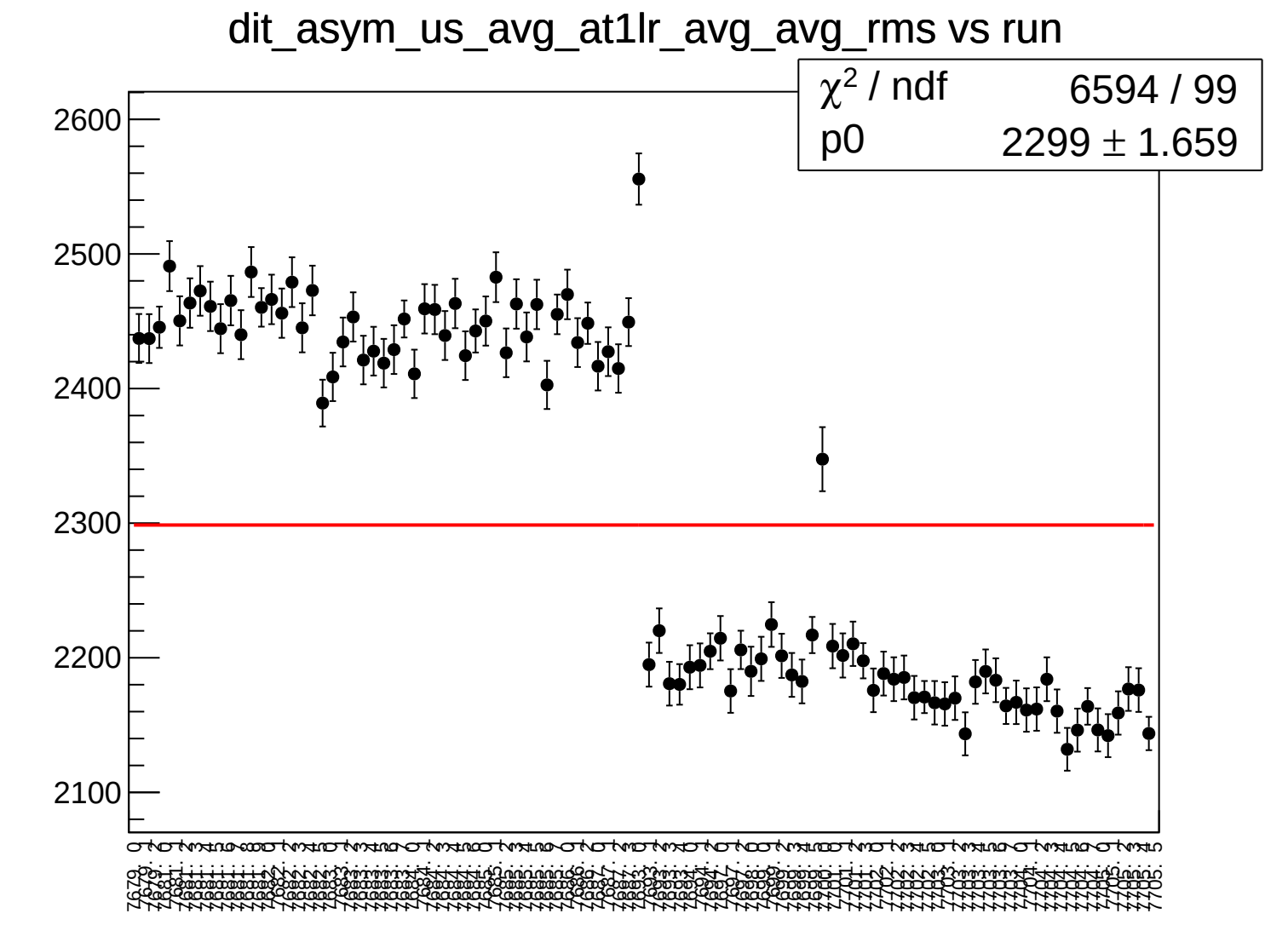
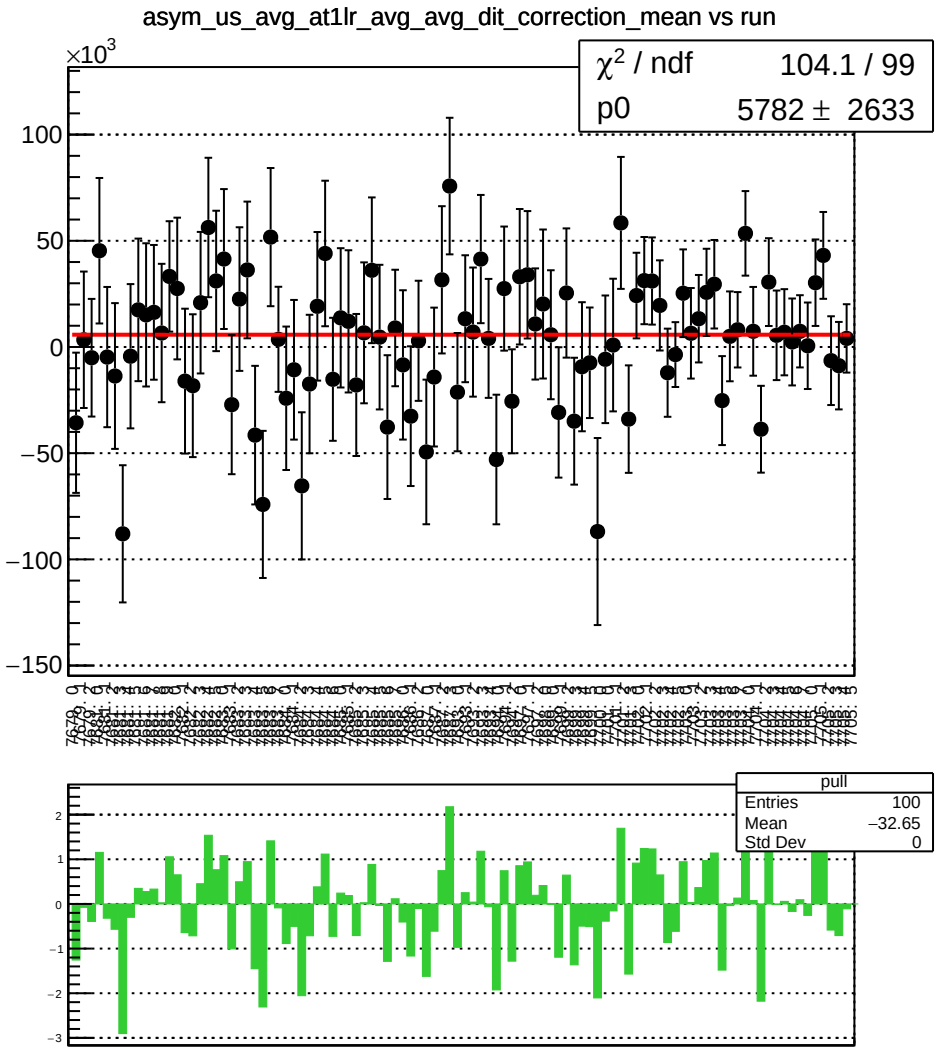
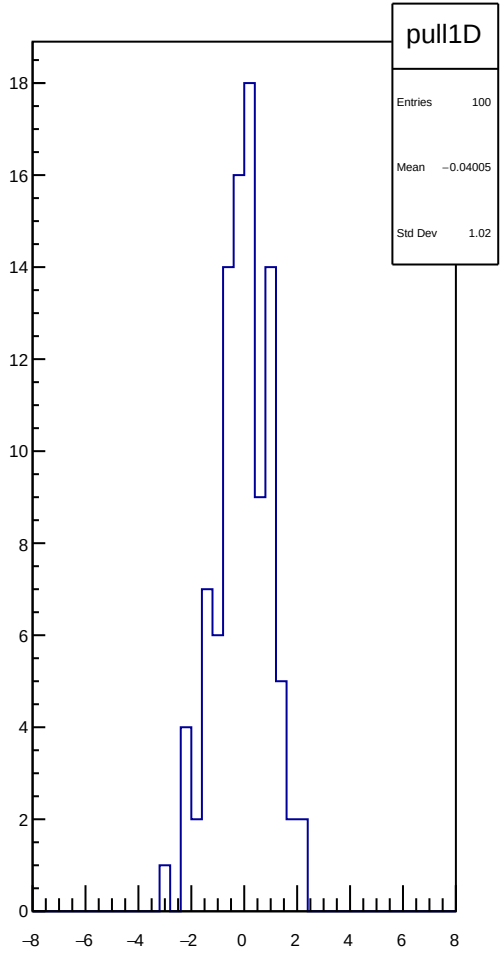

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 9.289e+04 / 99
p0 2536 ± 1.873
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

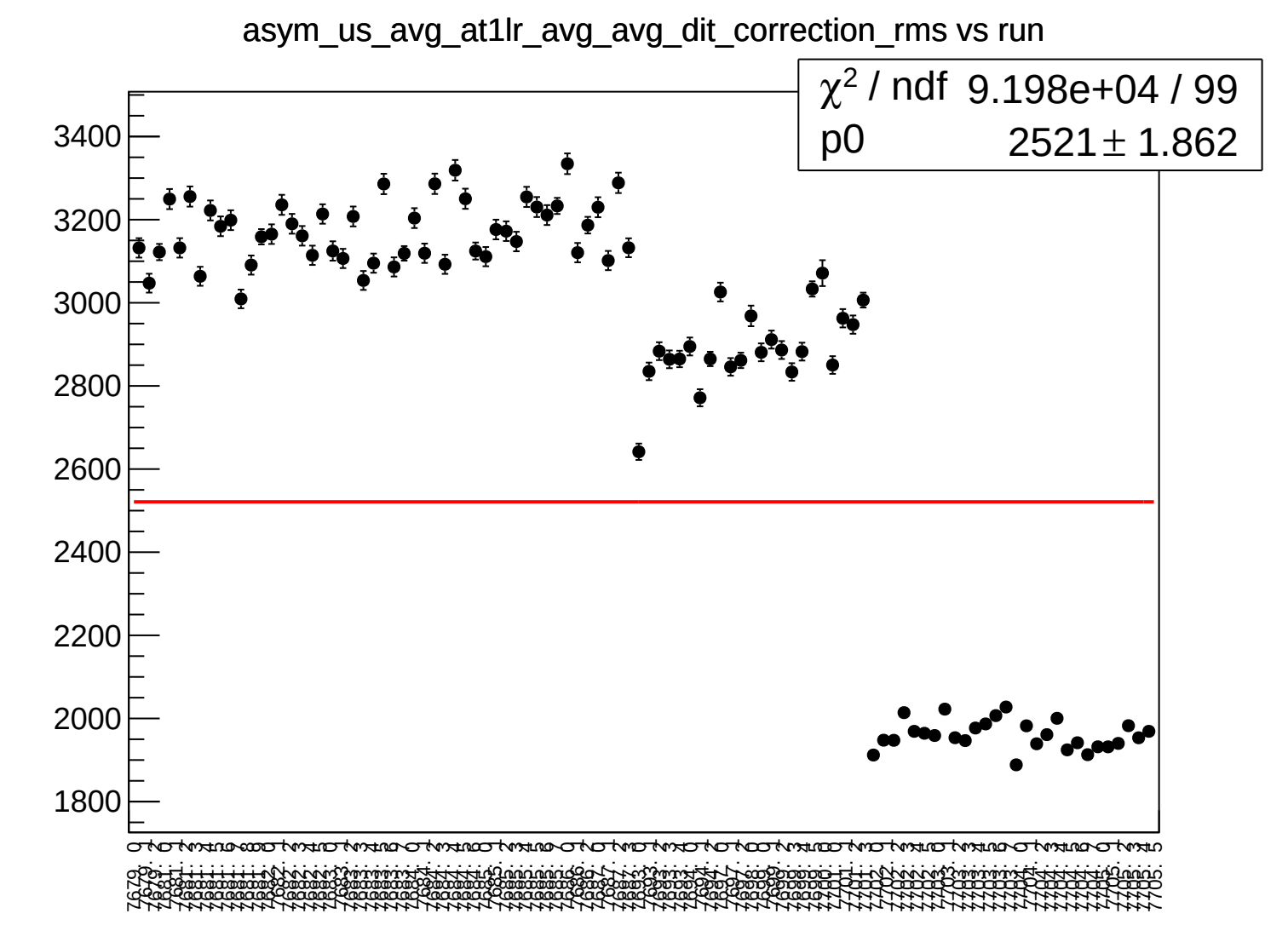

dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 78.47 / 99
p0 −2782 ± 2347
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −40.11
Std Dev 0
2
1
0
−1
−2

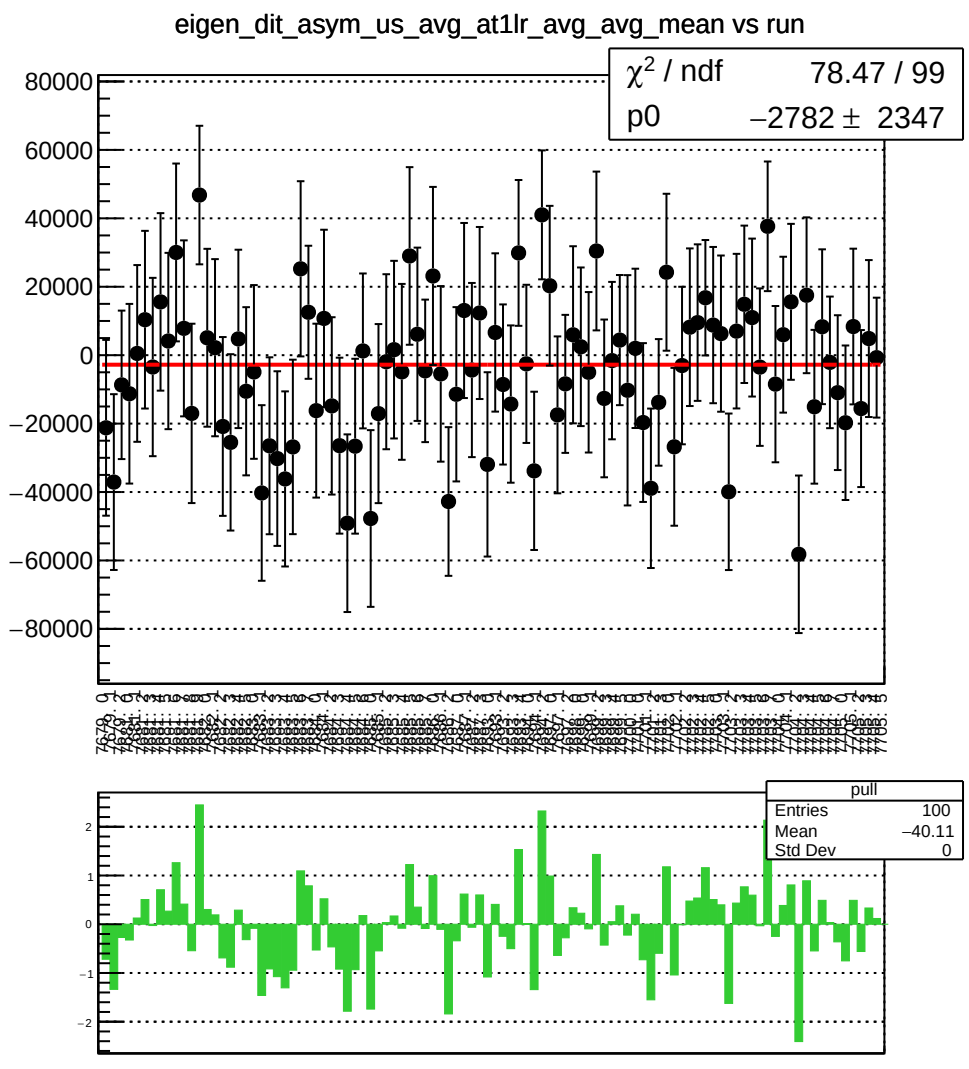

pull1D
Entries 100
Mean −0.02878
Std Dev 0.8854
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

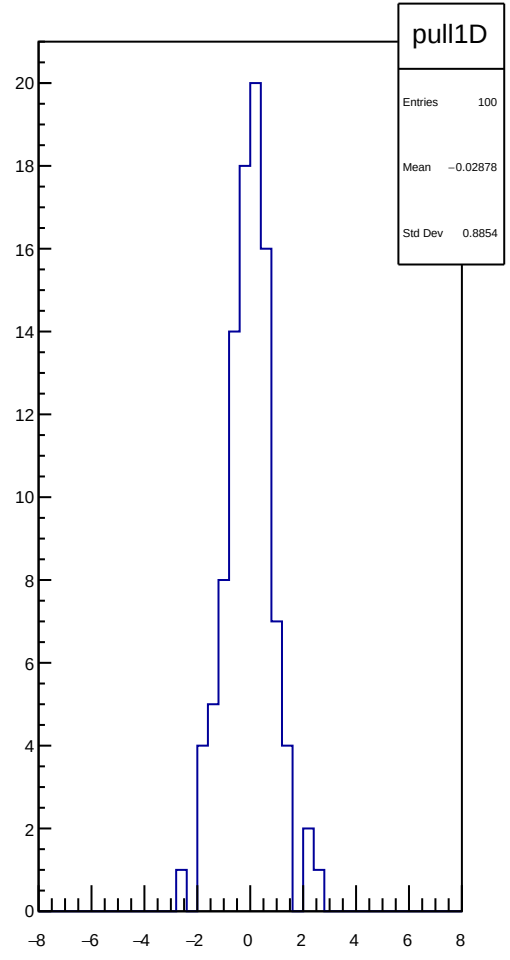

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 6594 / 99
p0 2299 ± 1.659
2600
2500
2400
2300
2200
2100

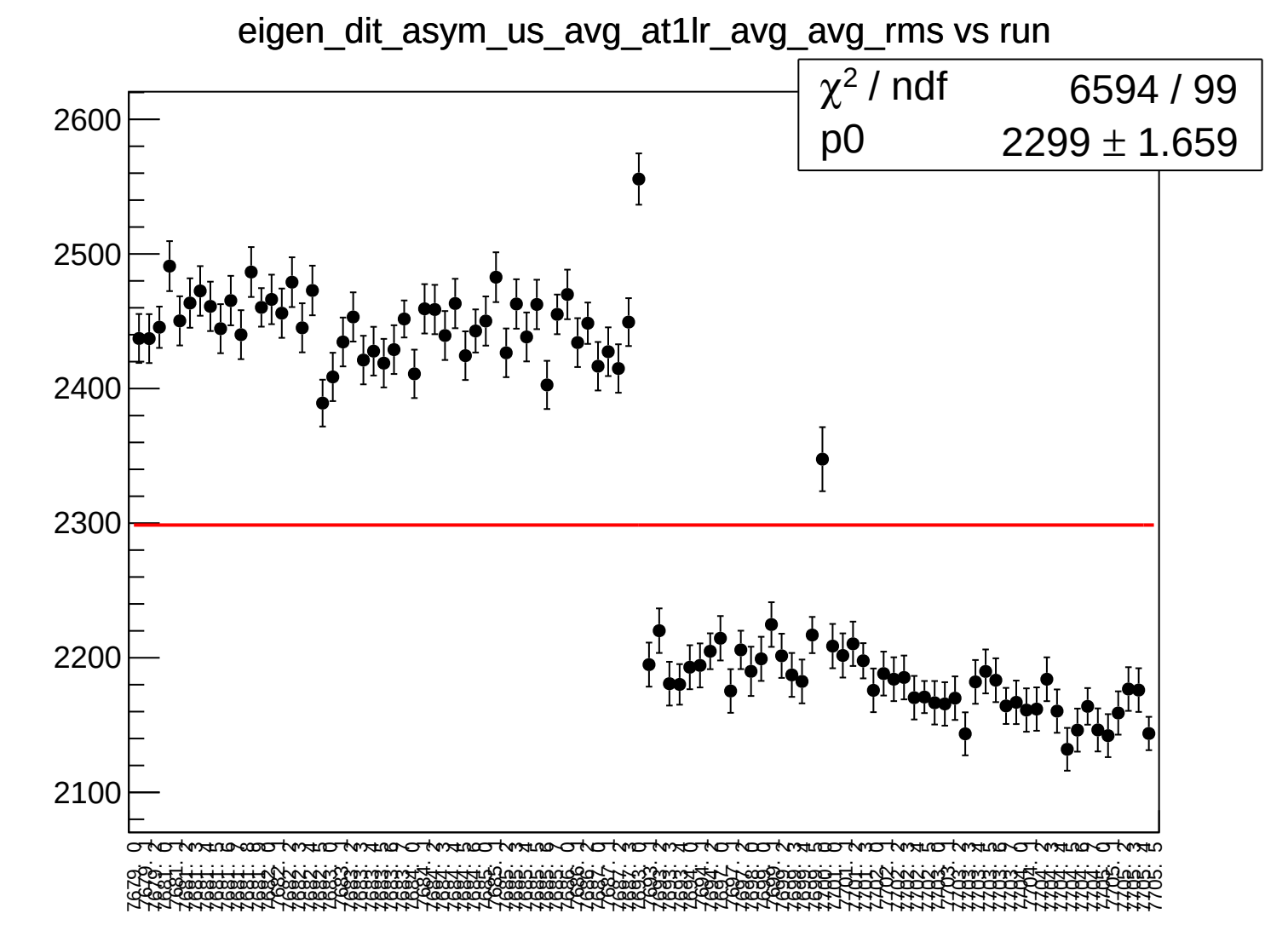

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 104.1 / 99
p0 5782 ± 2633
100
50
0
−50
−100
−150
pull
Entries 100
Mean −32.65
Std Dev 0
2
1
0
−1
−2
−3

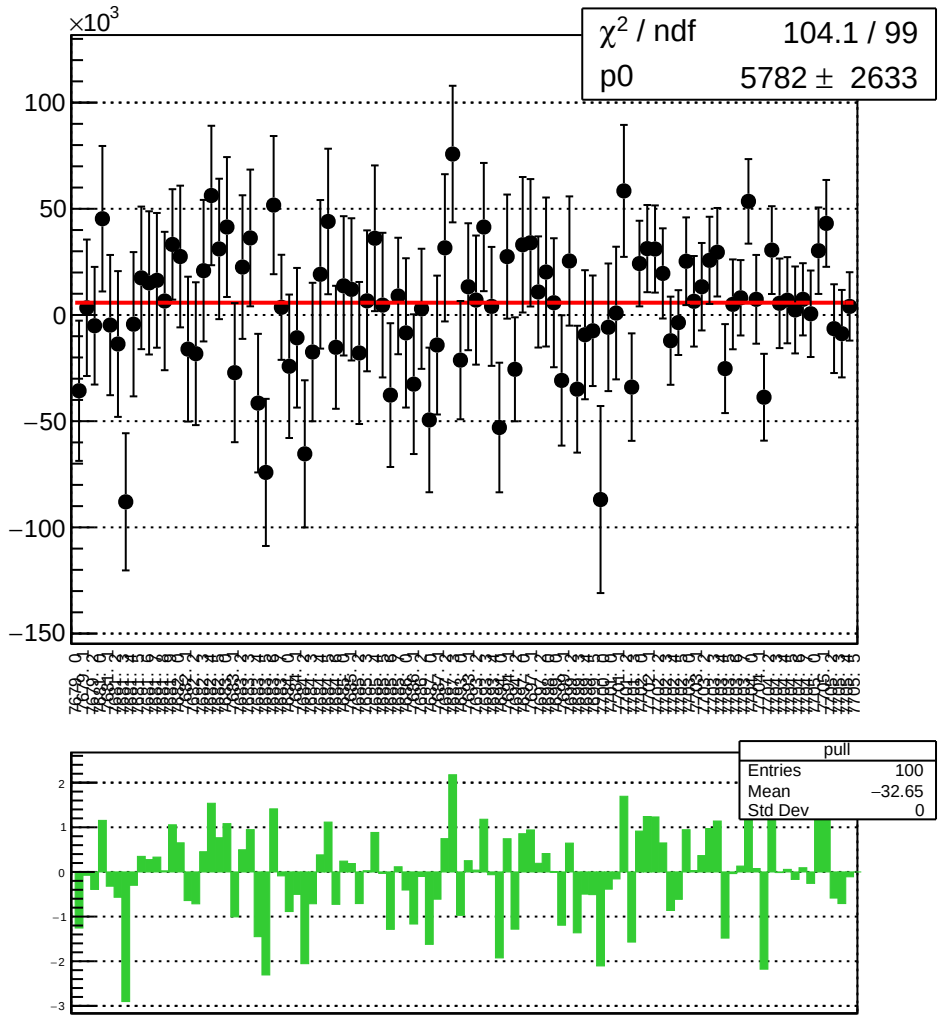

pull1D
Entries 100
Mean −0.04005
Std Dev 1.02
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

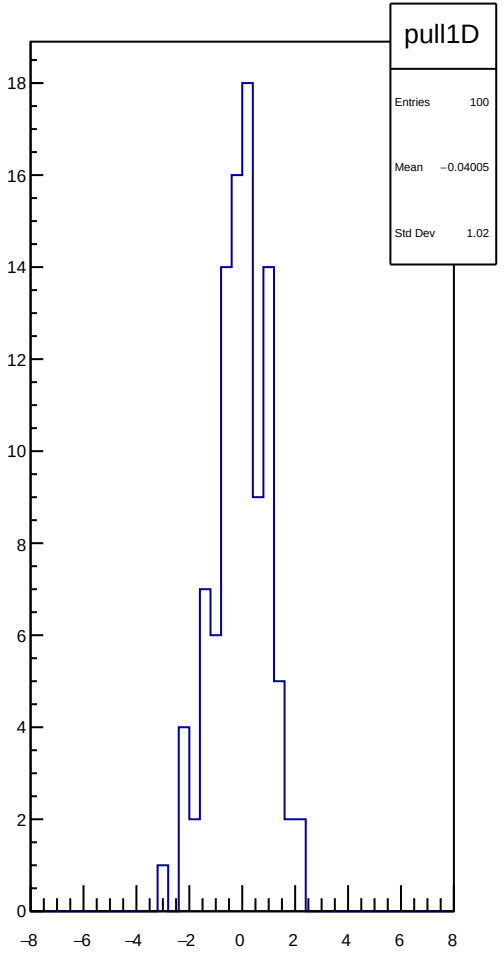

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 9.198e+04 / 99
p0 2521 ± 1.862
3400
3200
3000
2800
2600
2400
2200
2000
1800

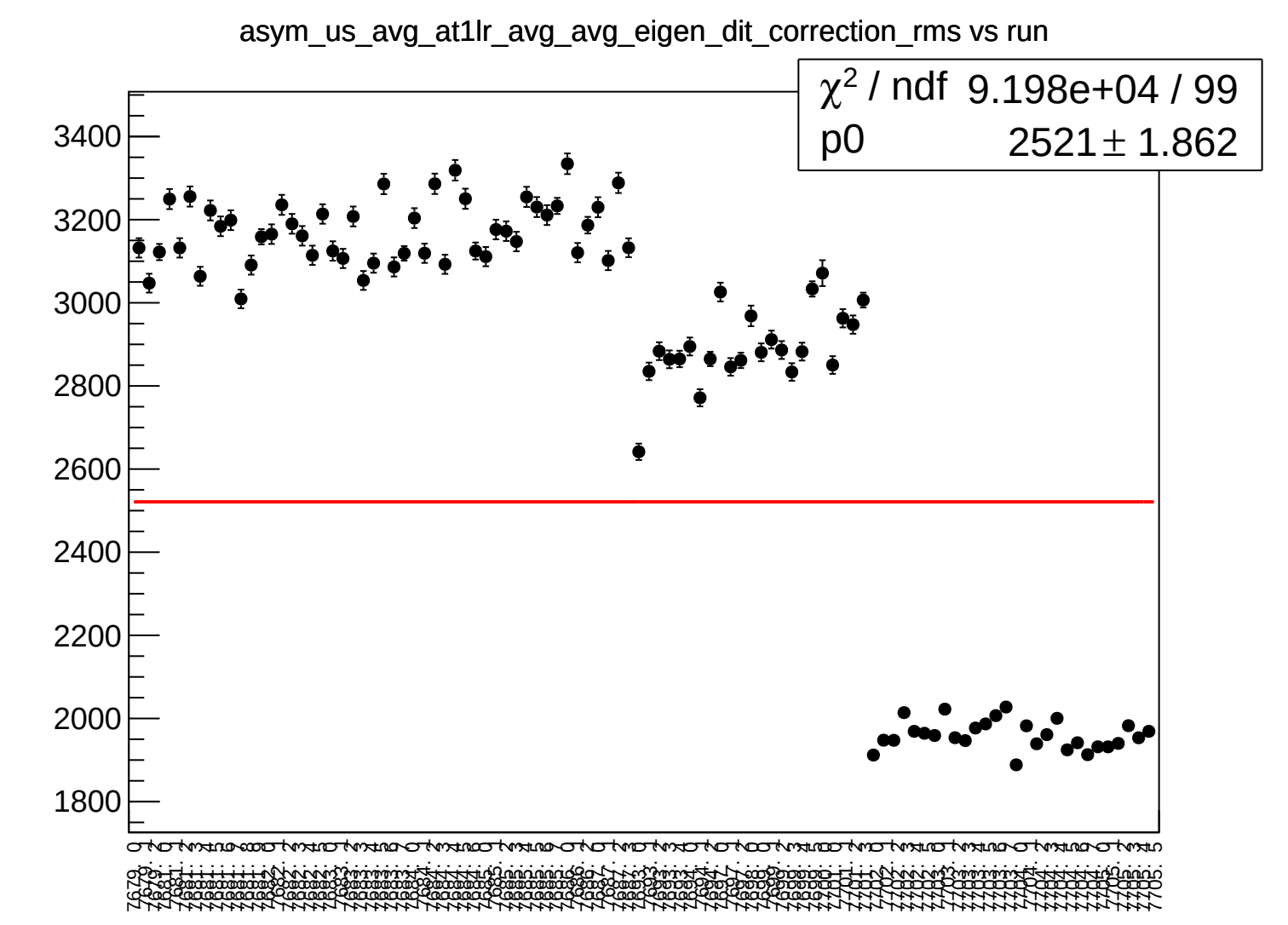

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 78.47 / 99
p0 −2782 ± 2347
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −40.11
Std Dev 0
2
1
0
−1
−2

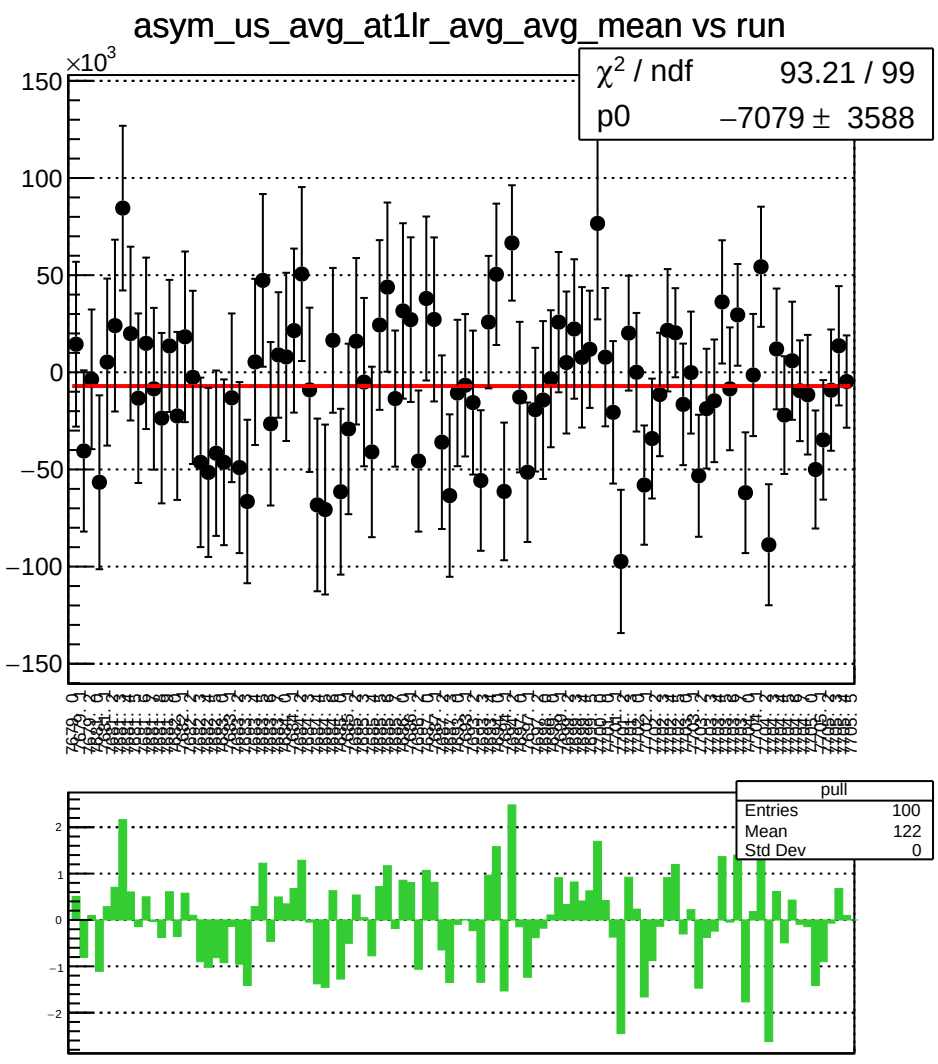

pull1D
Entries 100
Mean −0.02878
Std Dev 0.8854
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

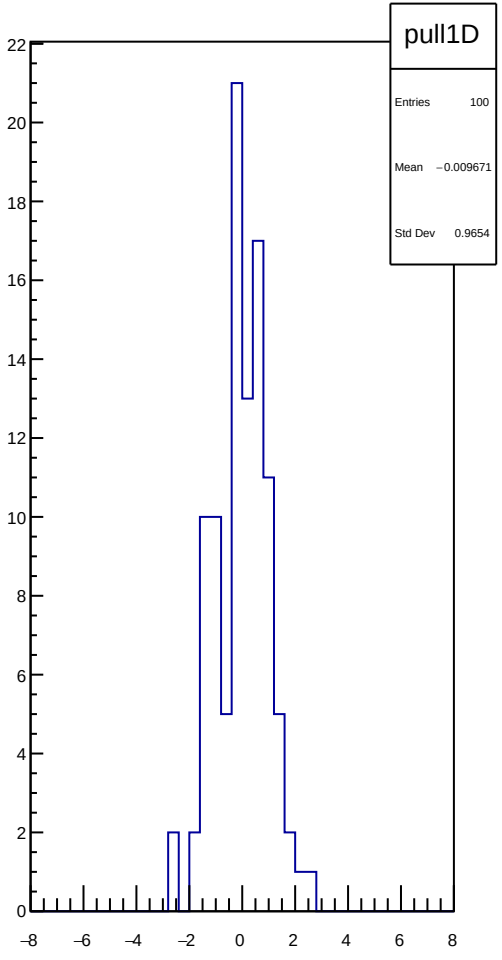

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 6594 / 99
p0 2299 ± 1.659
2600
2500
2400
2300
2200
2100

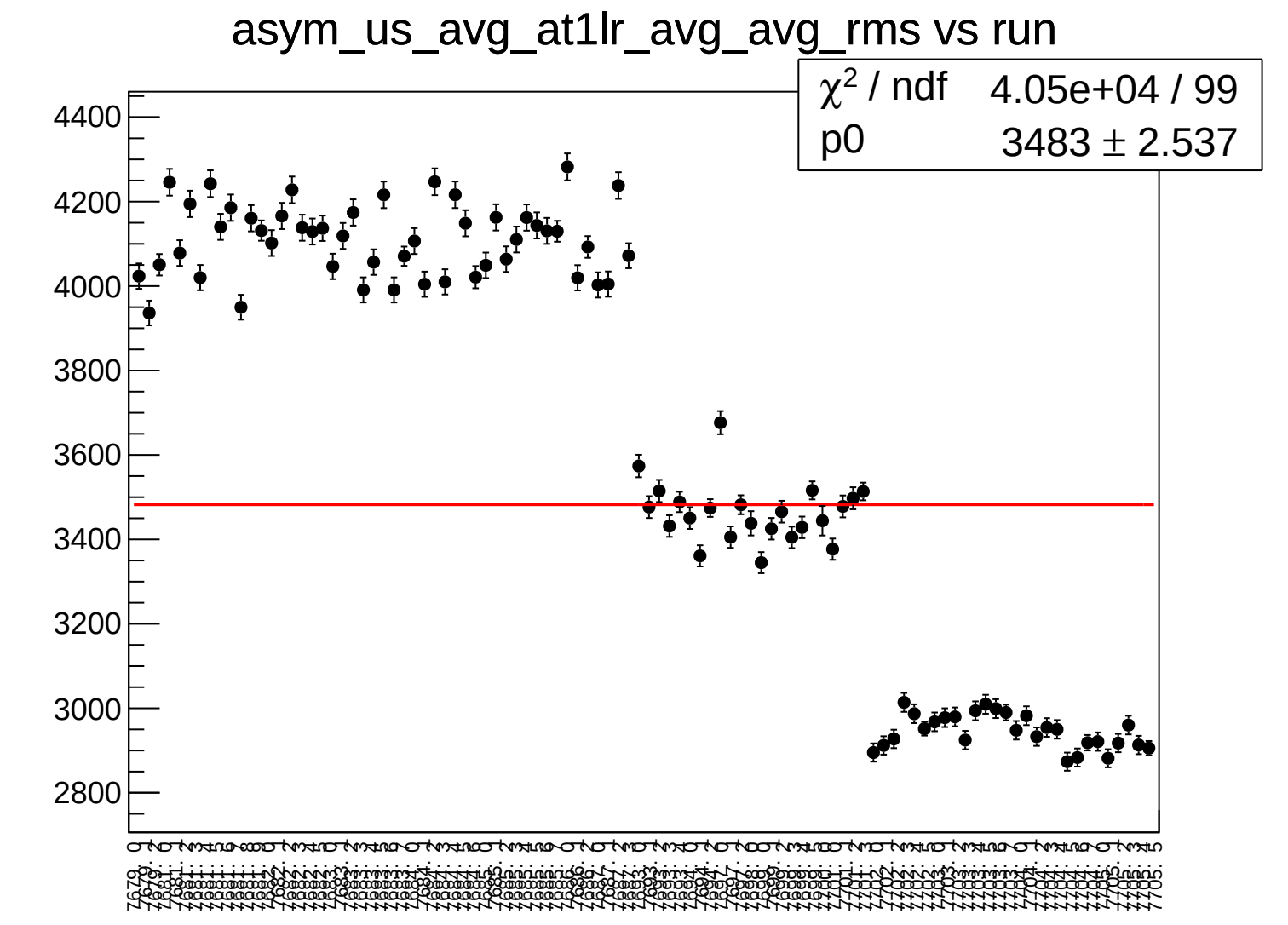

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 104.1 / 99
p0 5782 ± 2633
100
50
0
−50
−100
−150
pull
Entries 100
Mean −32.65
Std Dev 0
2
1
0
−1
−2
−3

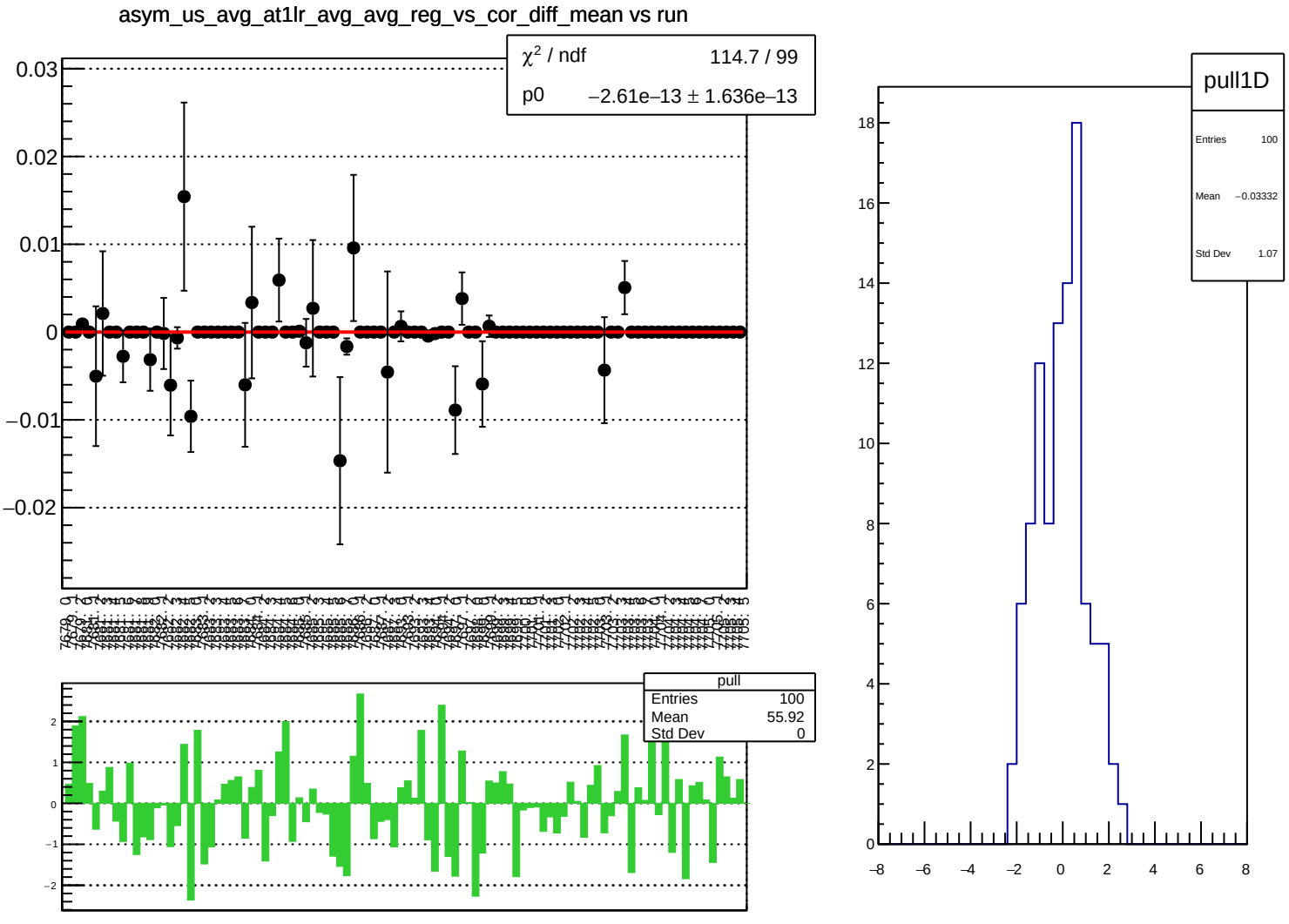

pull1D
Entries 100
Mean −0.04005
Std Dev 1.02
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

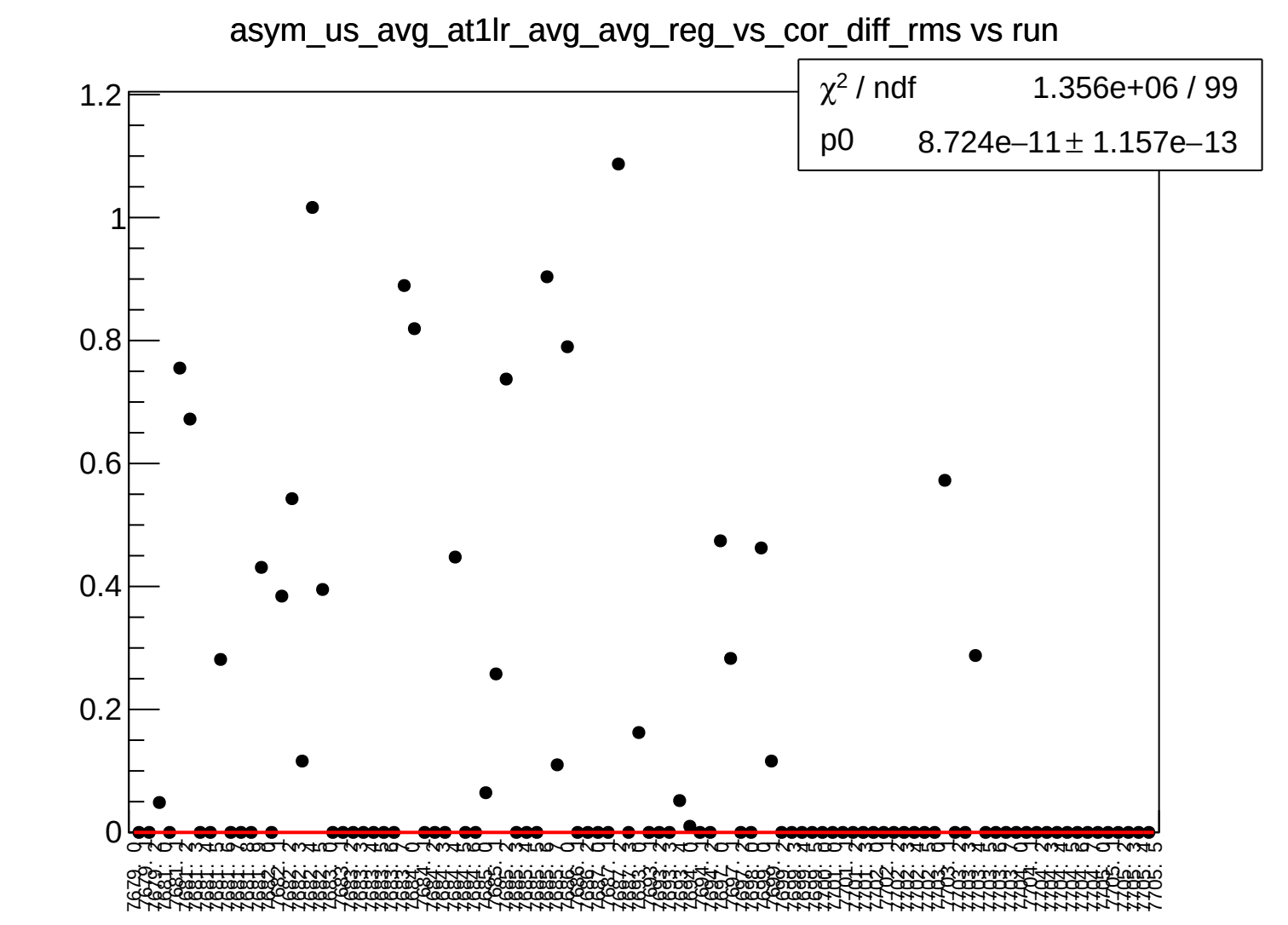

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 9.198e+04 / 99
p0 2521 ± 1.862
3400
3200
3000
2800
2600
2400
2200
2000
1800

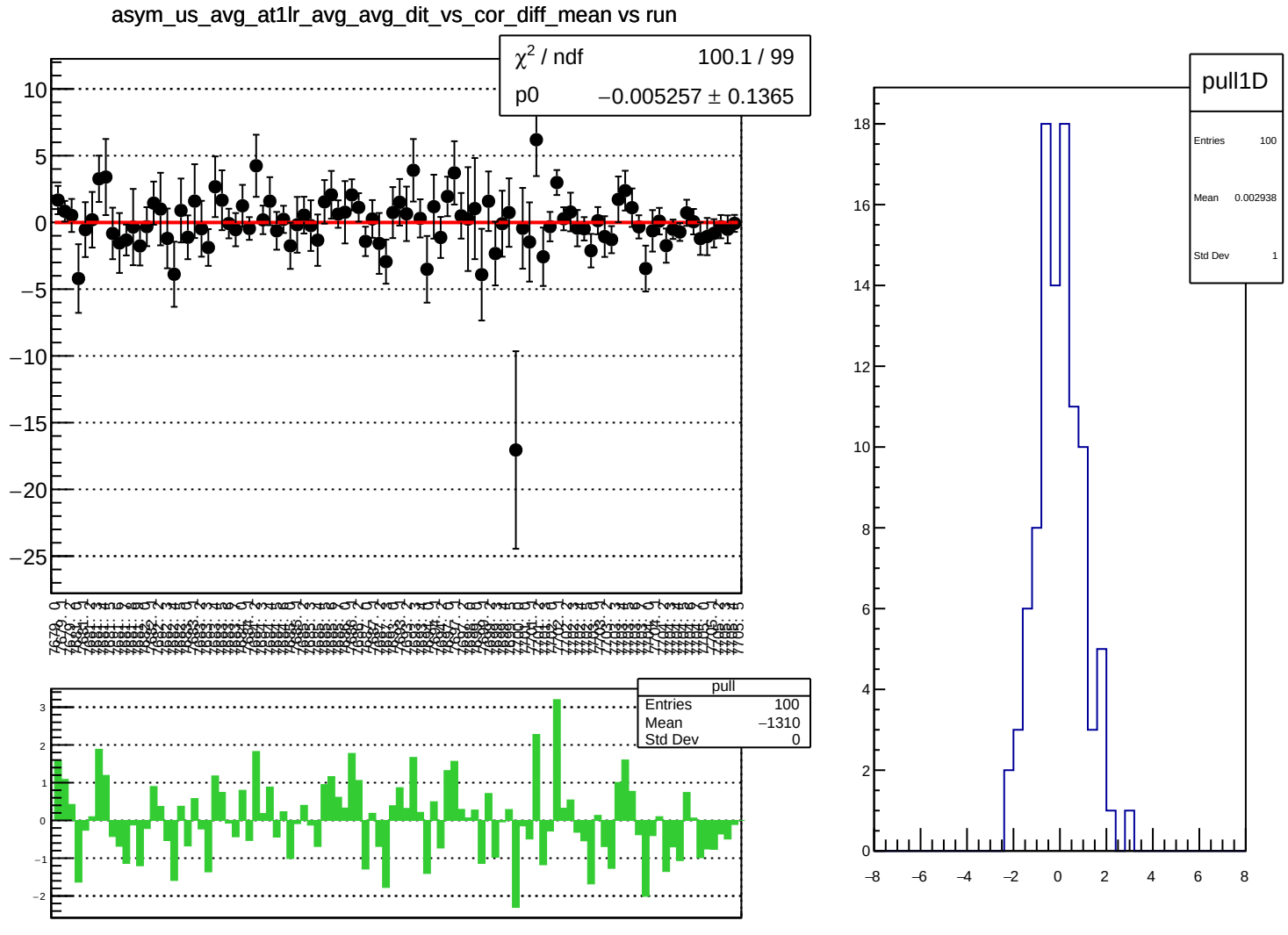

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 93.21 / 99
p0 −7079 ± 3588
150
100
50
0
−50
−100
−150
pull
Entries 100
Mean 122
Std Dev 0
2
1
0
−1
−2

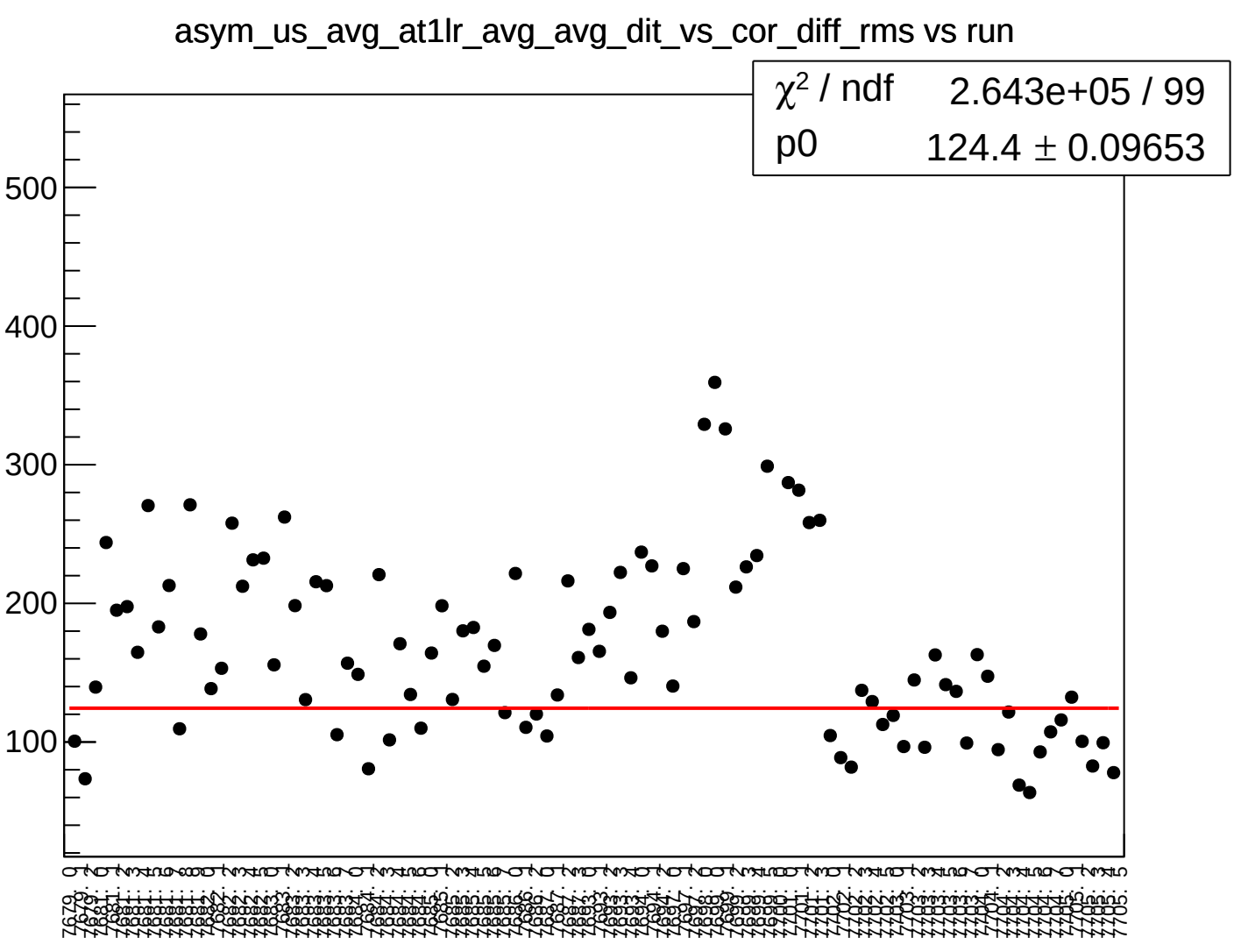

pull1D
Entries 100
Mean −0.009671
Std Dev 0.9654
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

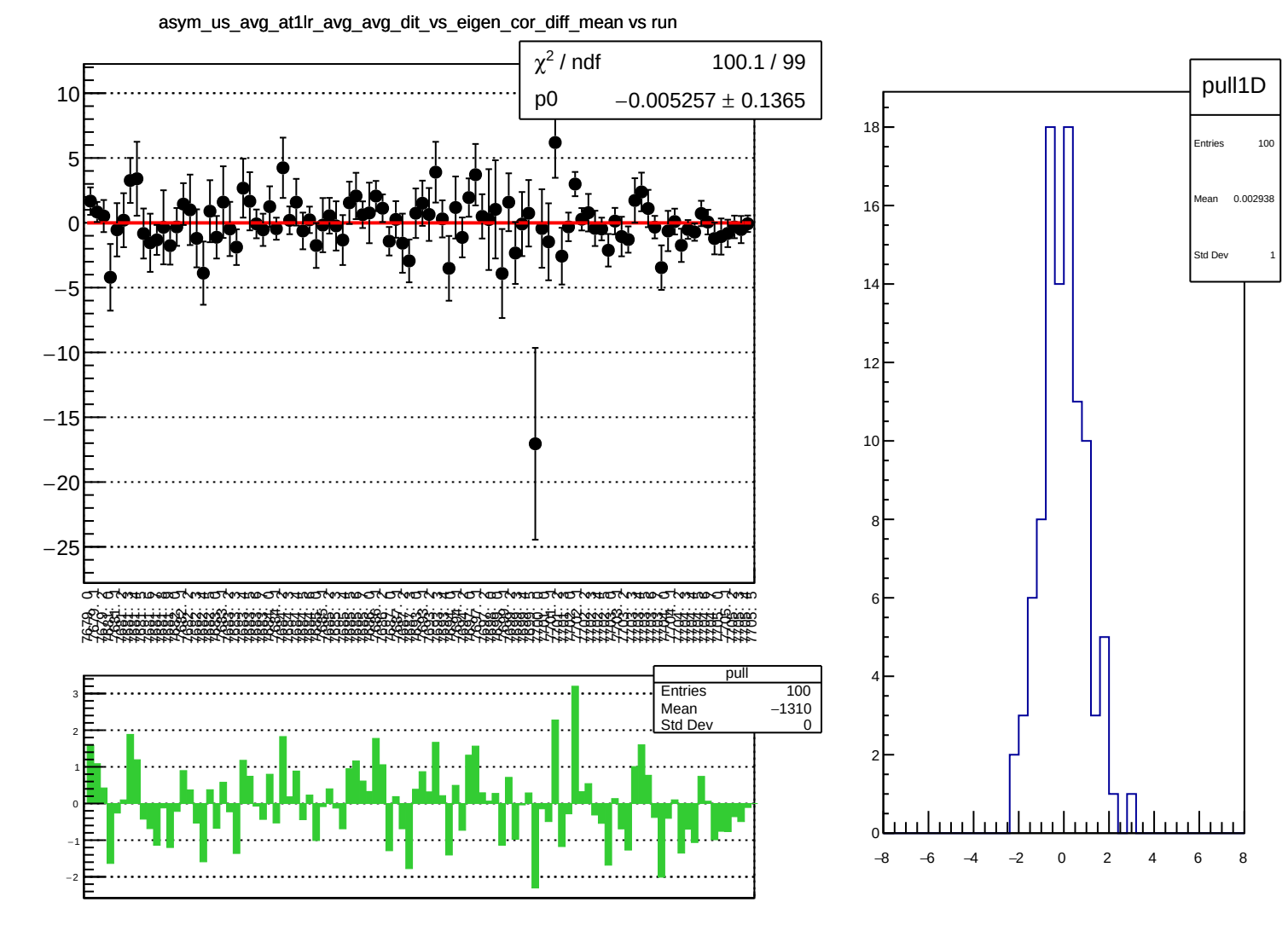

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 4.05e+04 / 99
p0 3483 ± 2.537
4400
4200
4000
3800
3600
3400
3200
3000
2800

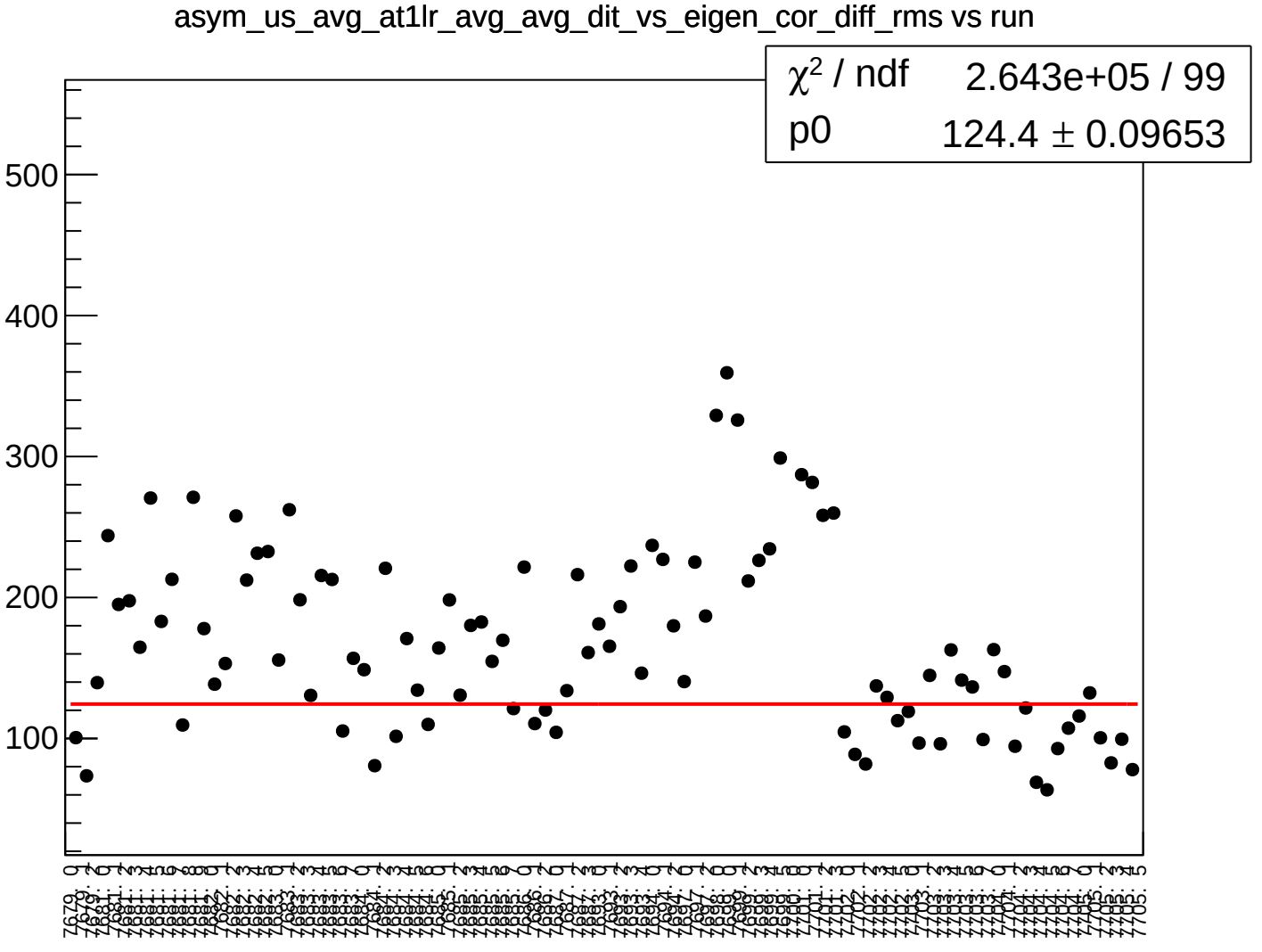

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 114.7 / 99
p0 −2.61e−13 ± 1.636e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 100
Mean 55.92
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.03332
Std Dev 1.07
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

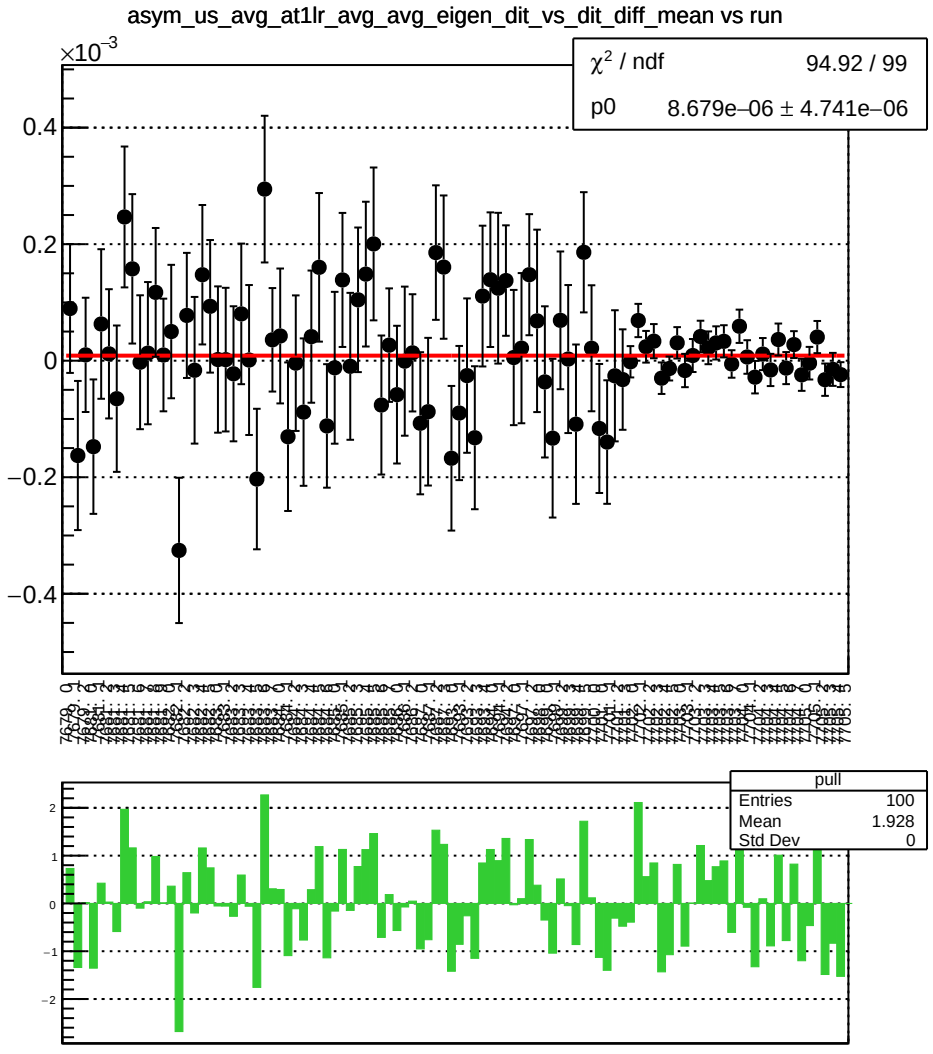

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.356e+06 / 99
p0 8.724e−11 ± 1.157e−13
1.2
1
0.8
0.6
0.4
0.2
0

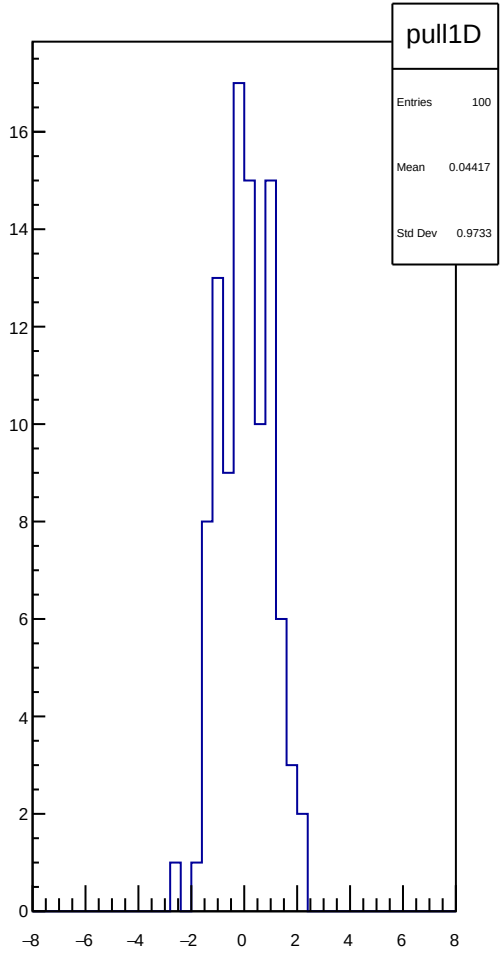

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 100.1 / 99
p0 −0.005257 ± 0.1365
pull
Entries 100
Mean −1310
Std Dev 0
pull1D
Entries 100
Mean 0.002938
Std Dev 1

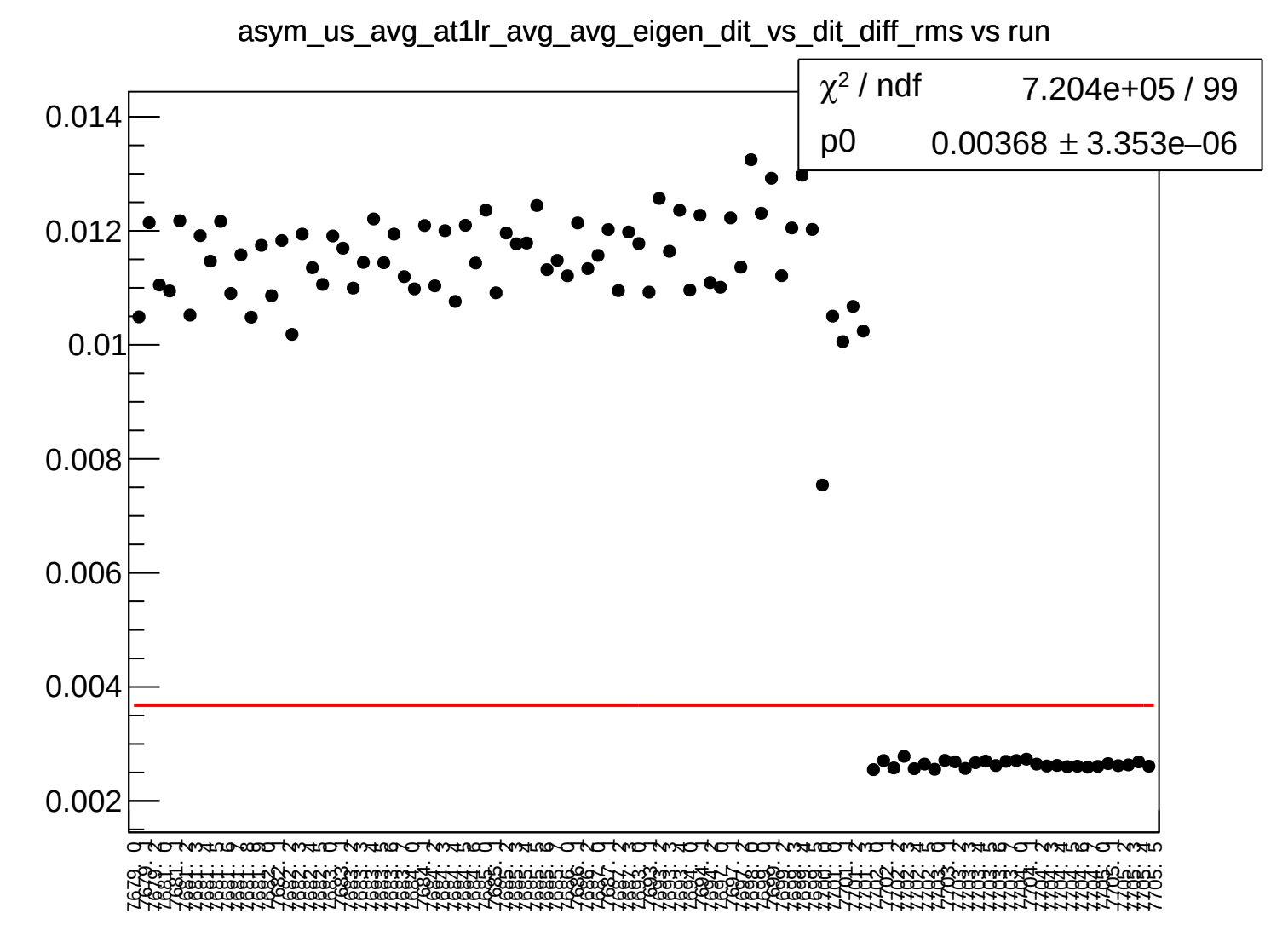

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.643e+05 / 99
p0 124.4 ± 0.09653
500
400
300
200
100

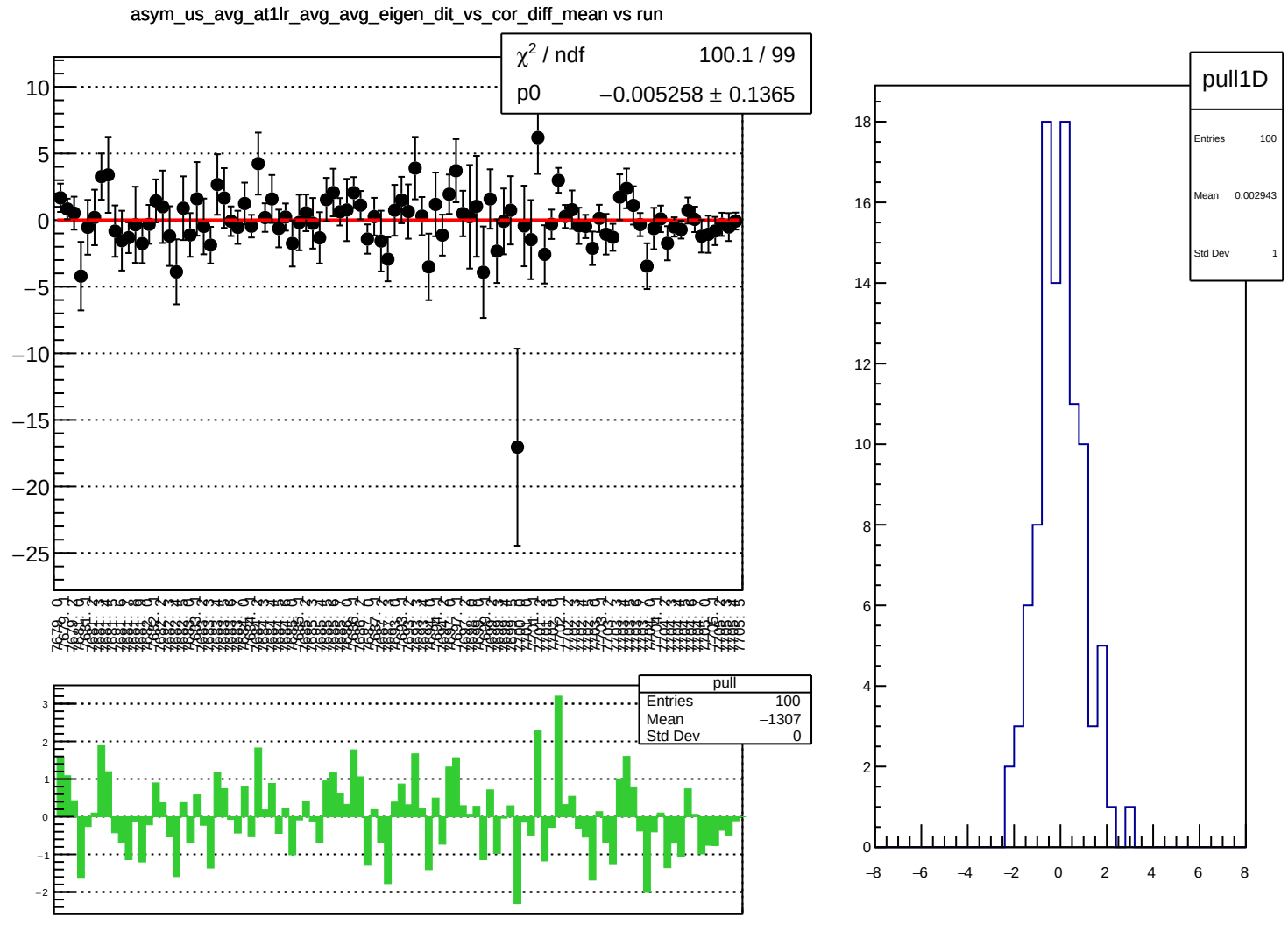

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.1 / 99
p0 −0.005257 ± 0.1365
pull
Entries 100
Mean −1310
Std Dev 0
pull1D
Entries 100
Mean 0.002938
Std Dev 1

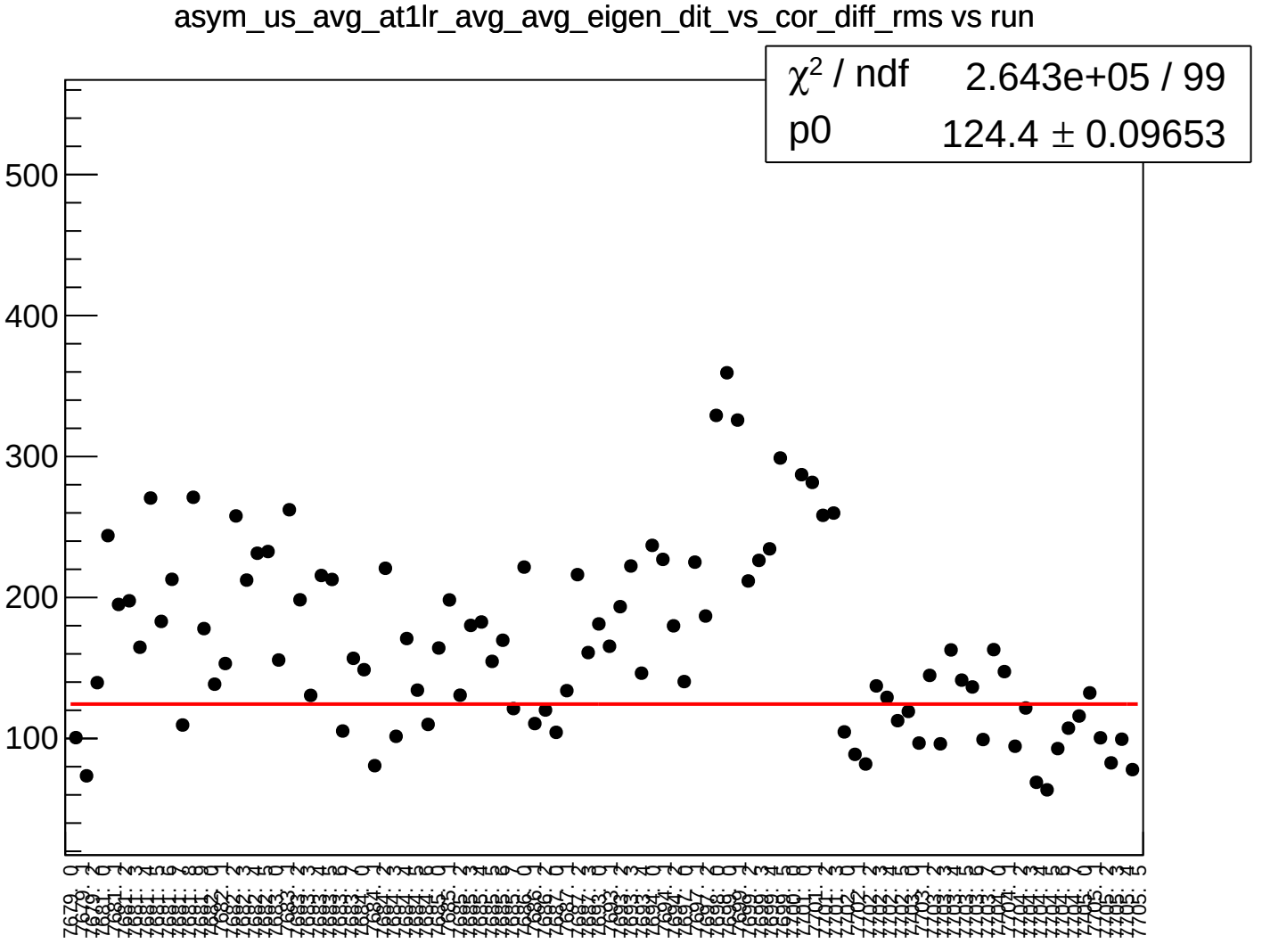

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.643e+05 / 99
p0 124.4 ± 0.09653
500
400
300
200
100

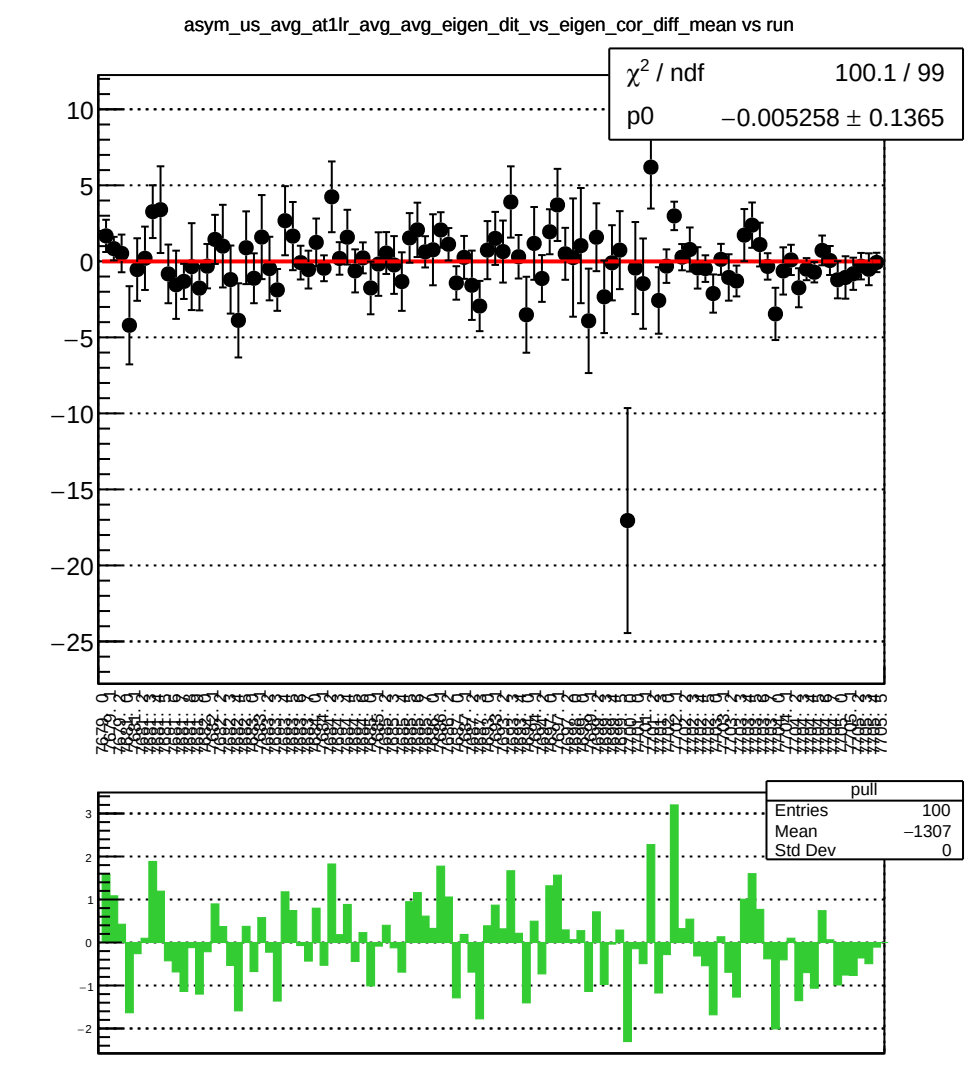

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.92 / 99
p0 8.679e−06 ± 4.741e−06
0.4
0.2
0
−0.2
−0.4
pull
Entries 100
Mean 1.928
Std Dev 0
2
1
0
−1
−2

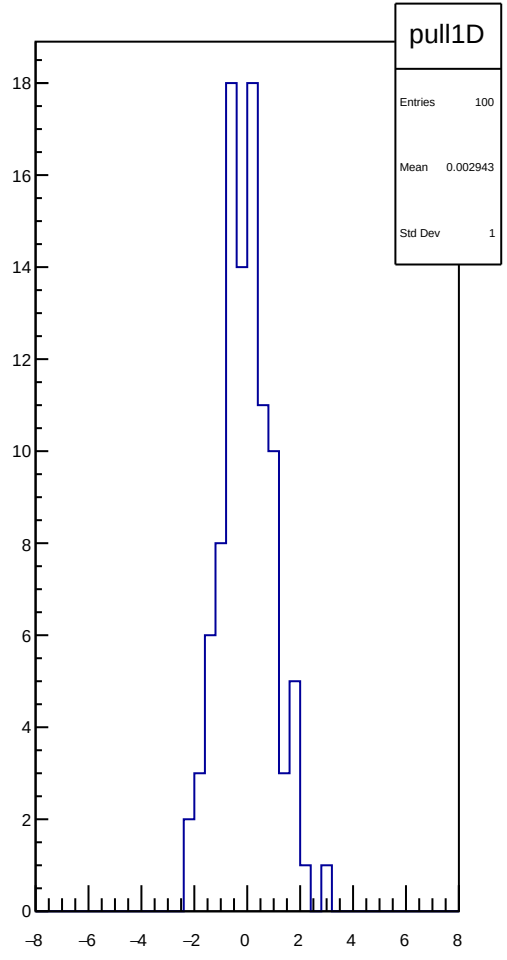

pull1D
Entries 100
Mean 0.04417
Std Dev 0.9733
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

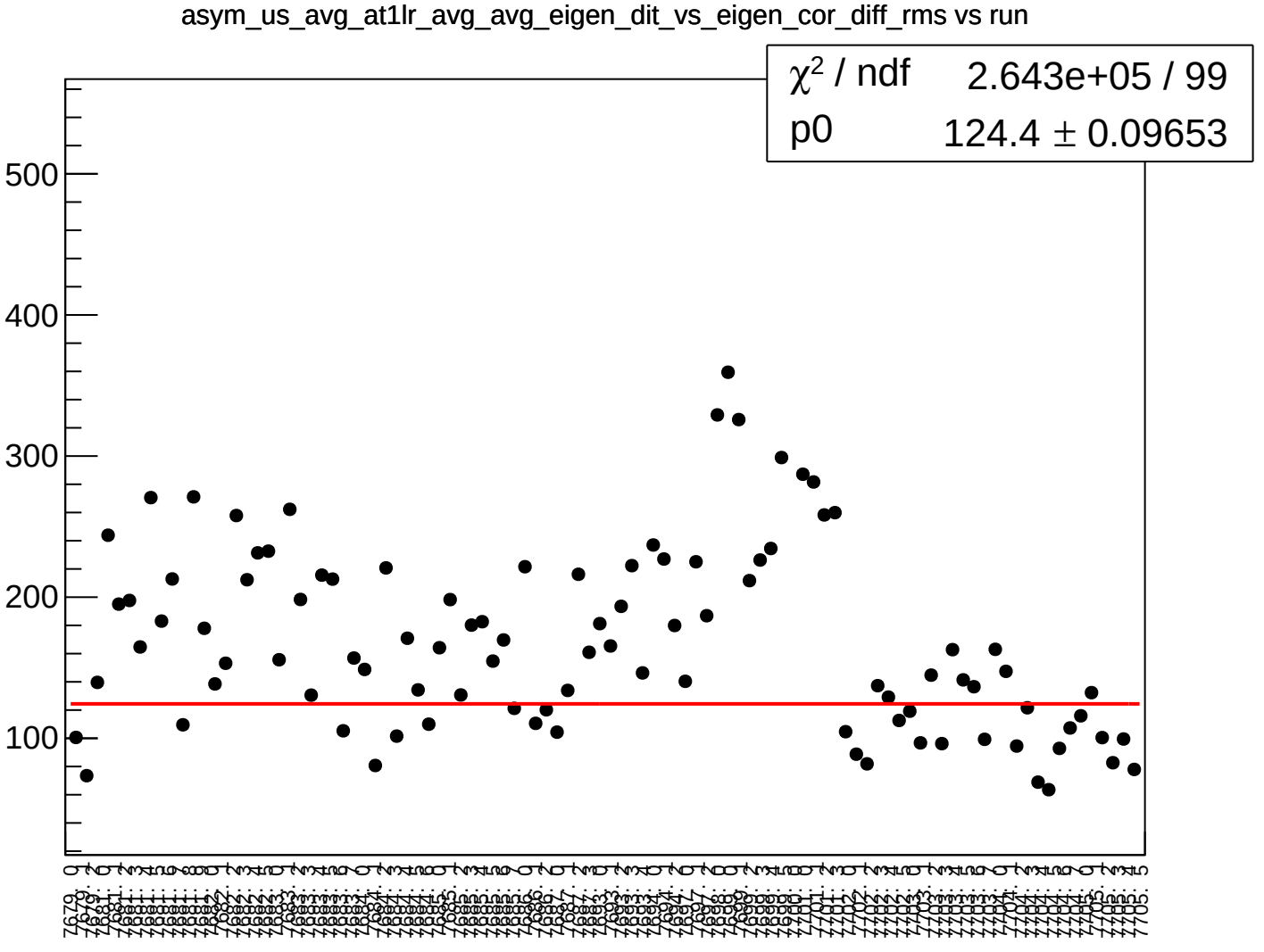

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.204e+05 / 99
p0 0.00368 ± 3.353e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

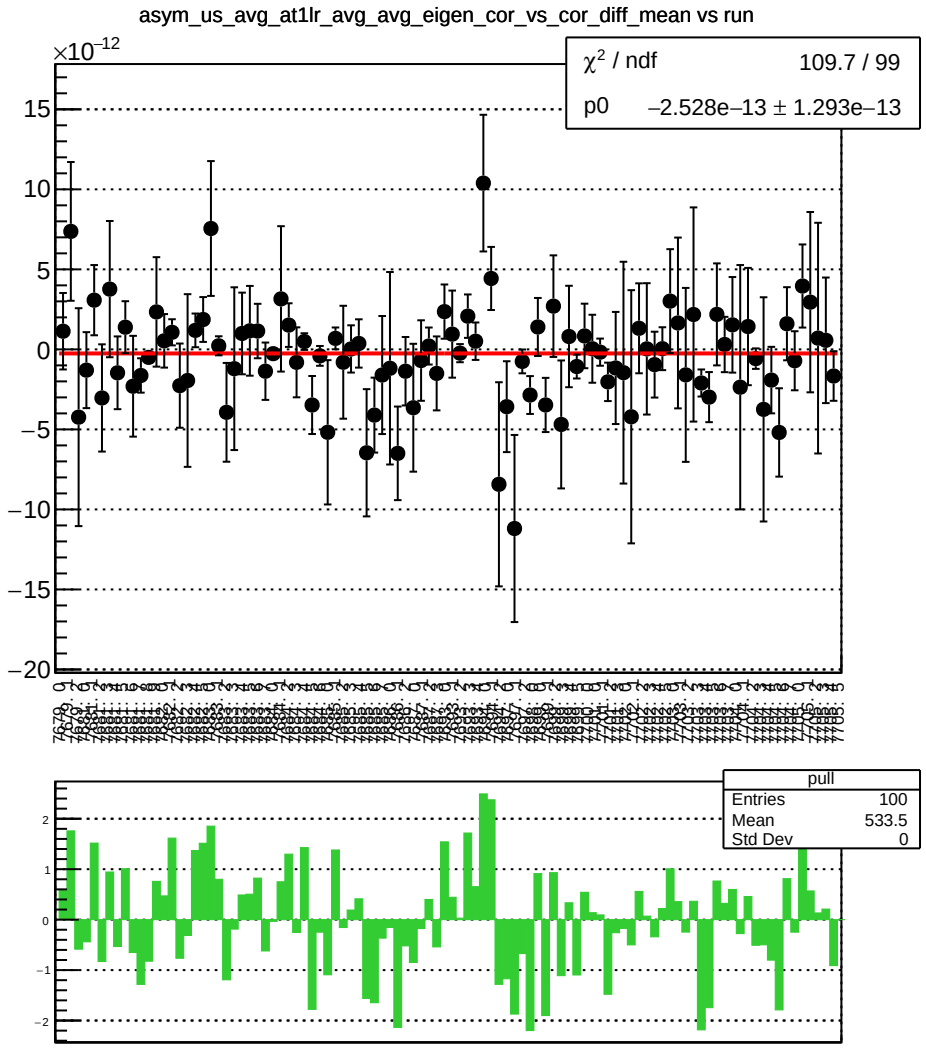

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.1 / 99
p0 −0.005258 ± 0.1365
pull
Entries 100
Mean −1307
Std Dev 0
pull1D
Entries 100
Mean 0.002943
Std Dev 1

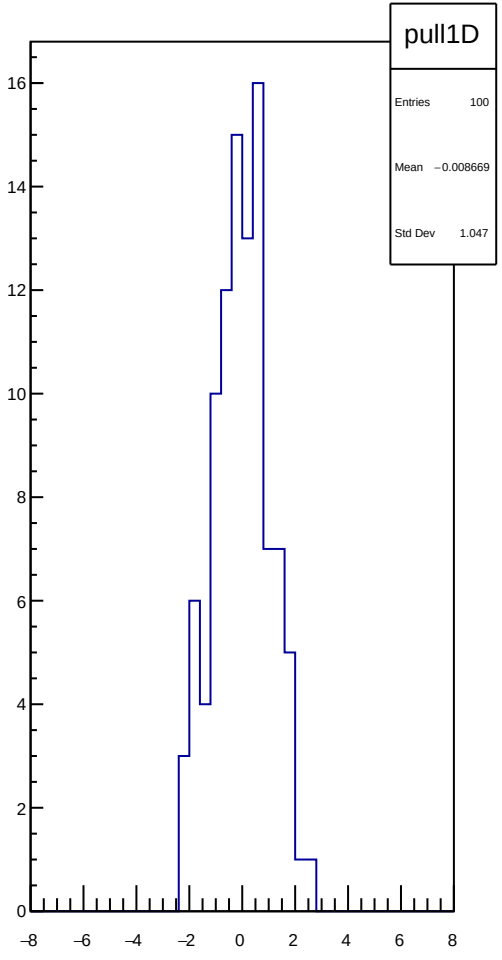

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.643e+05 / 99
p0 124.4 ± 0.09653
500
400
300
200
100

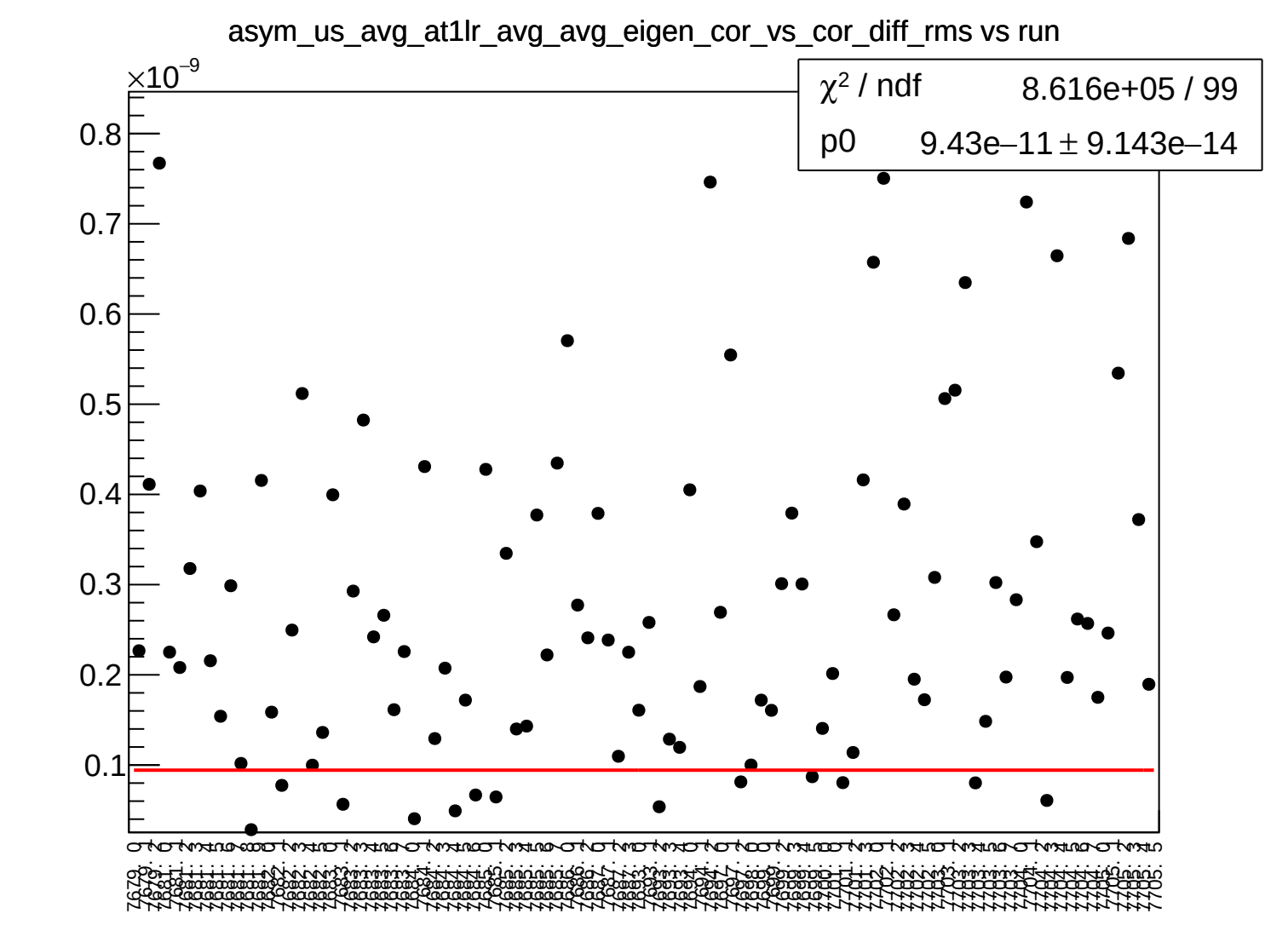

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.1 / 99
p0 −0.005258 ± 0.1365
pull
Entries 100
Mean −1307
Std Dev 0

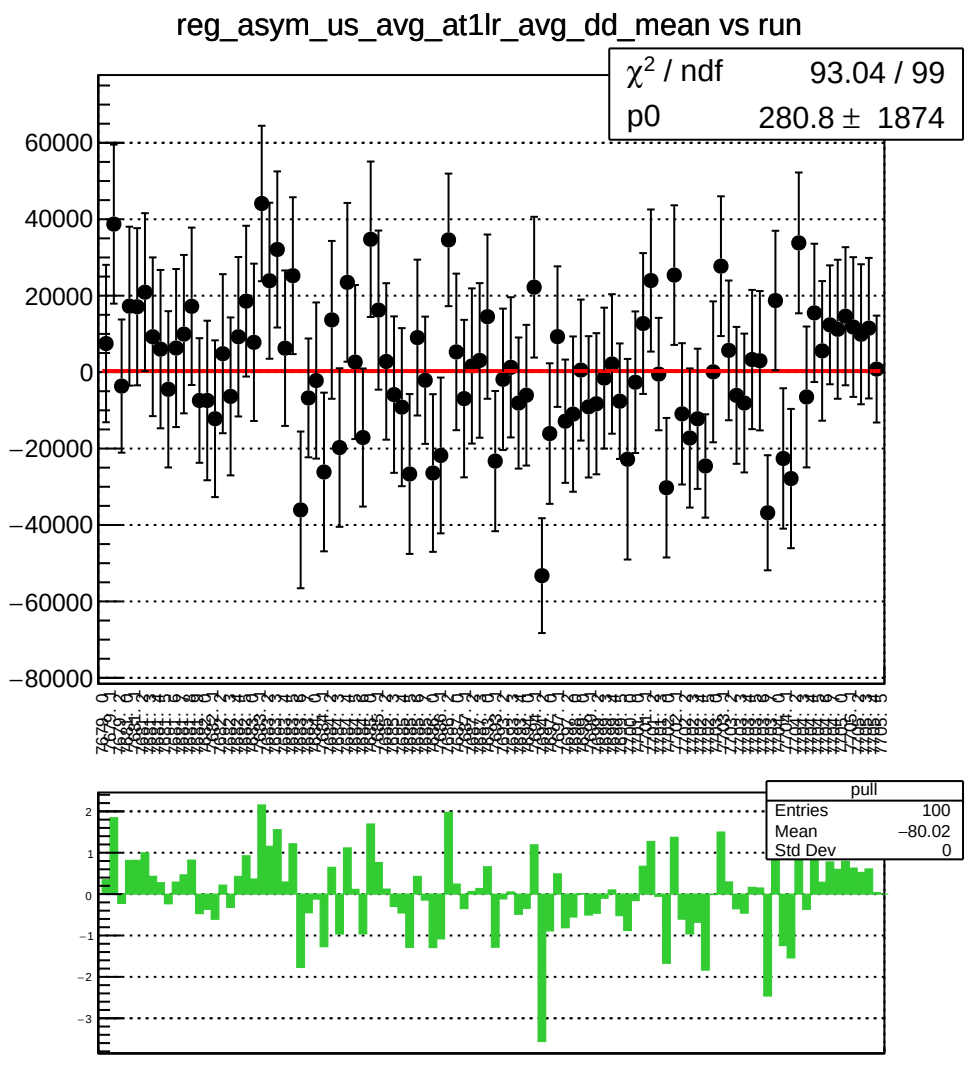

pull1D
Entries 100
Mean 0.002943
Std Dev 1

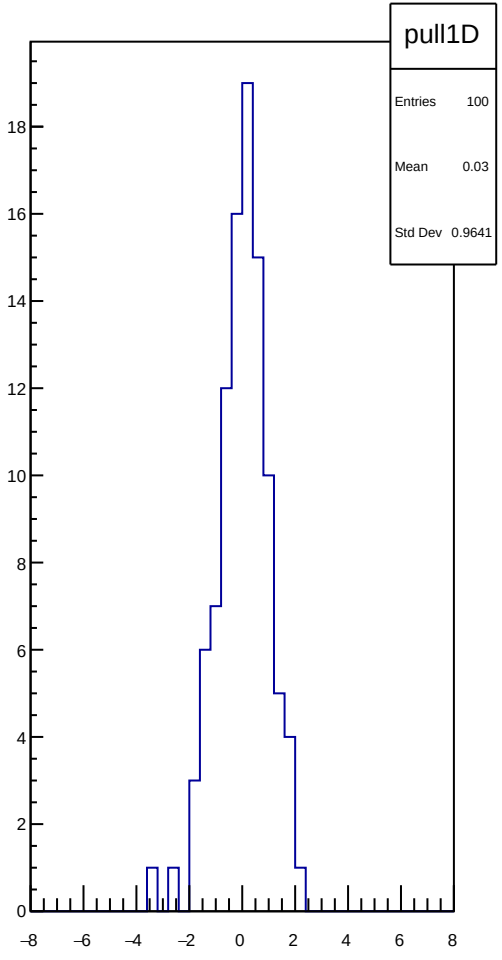

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.643e+05 / 99
p0 124.4 ± 0.09653
500
400
300
200
100

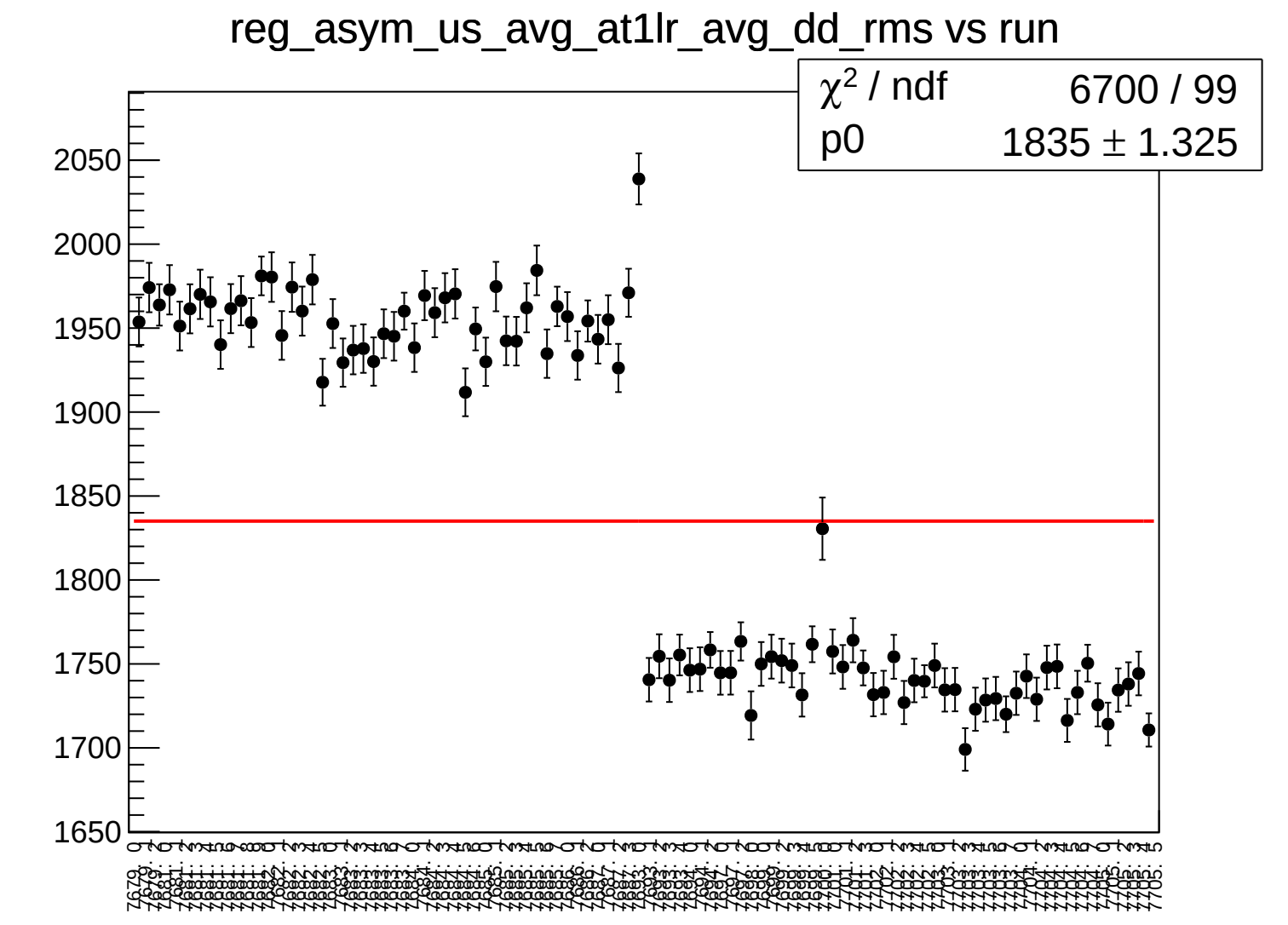

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 109.7 / 99
p0 −2.528e−13 ± 1.293e−13
pull
Entries 100
Mean 533.5
Std Dev 0

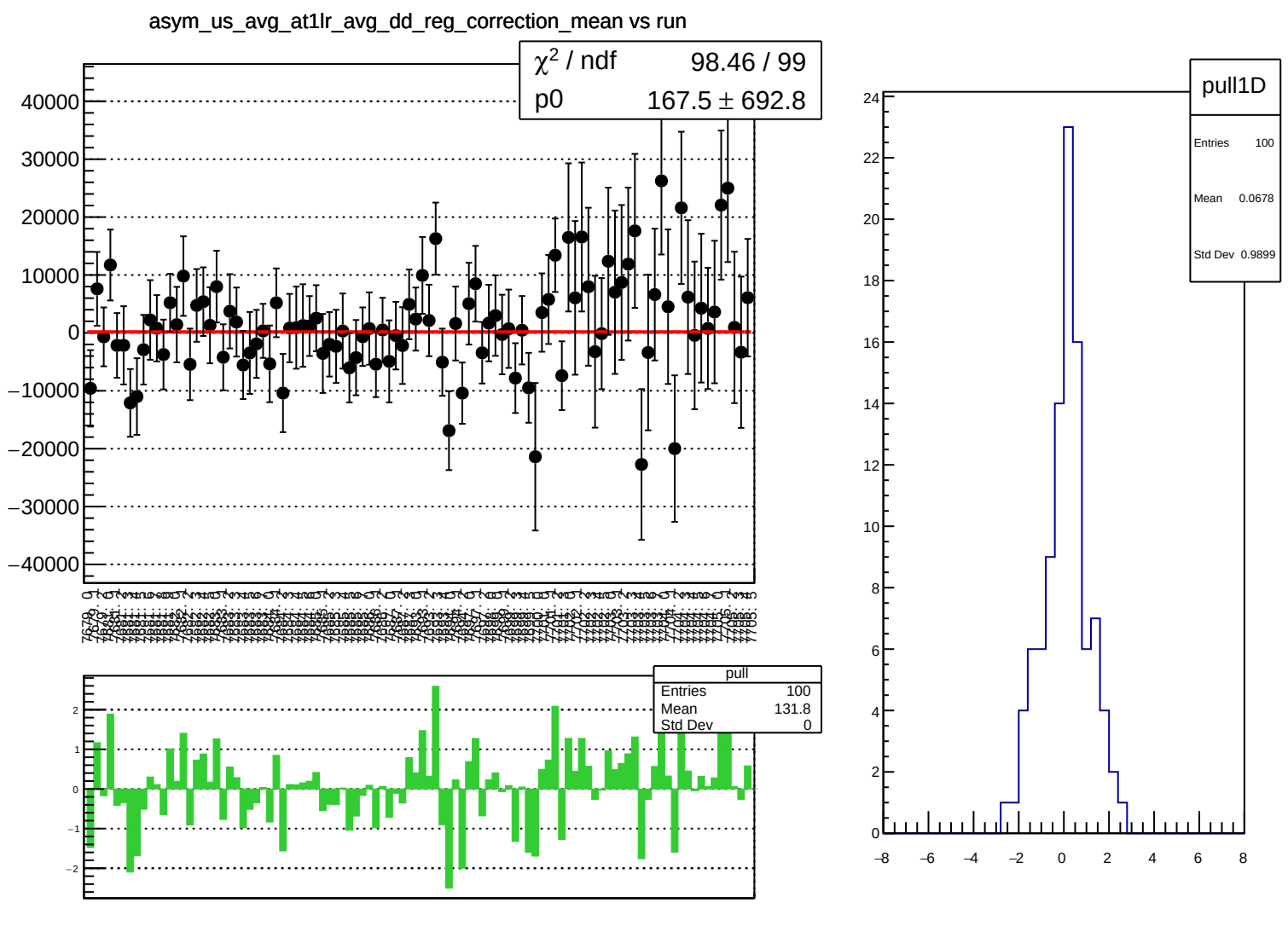

pull1D
Entries 100
Mean −0.008669
Std Dev 1.047

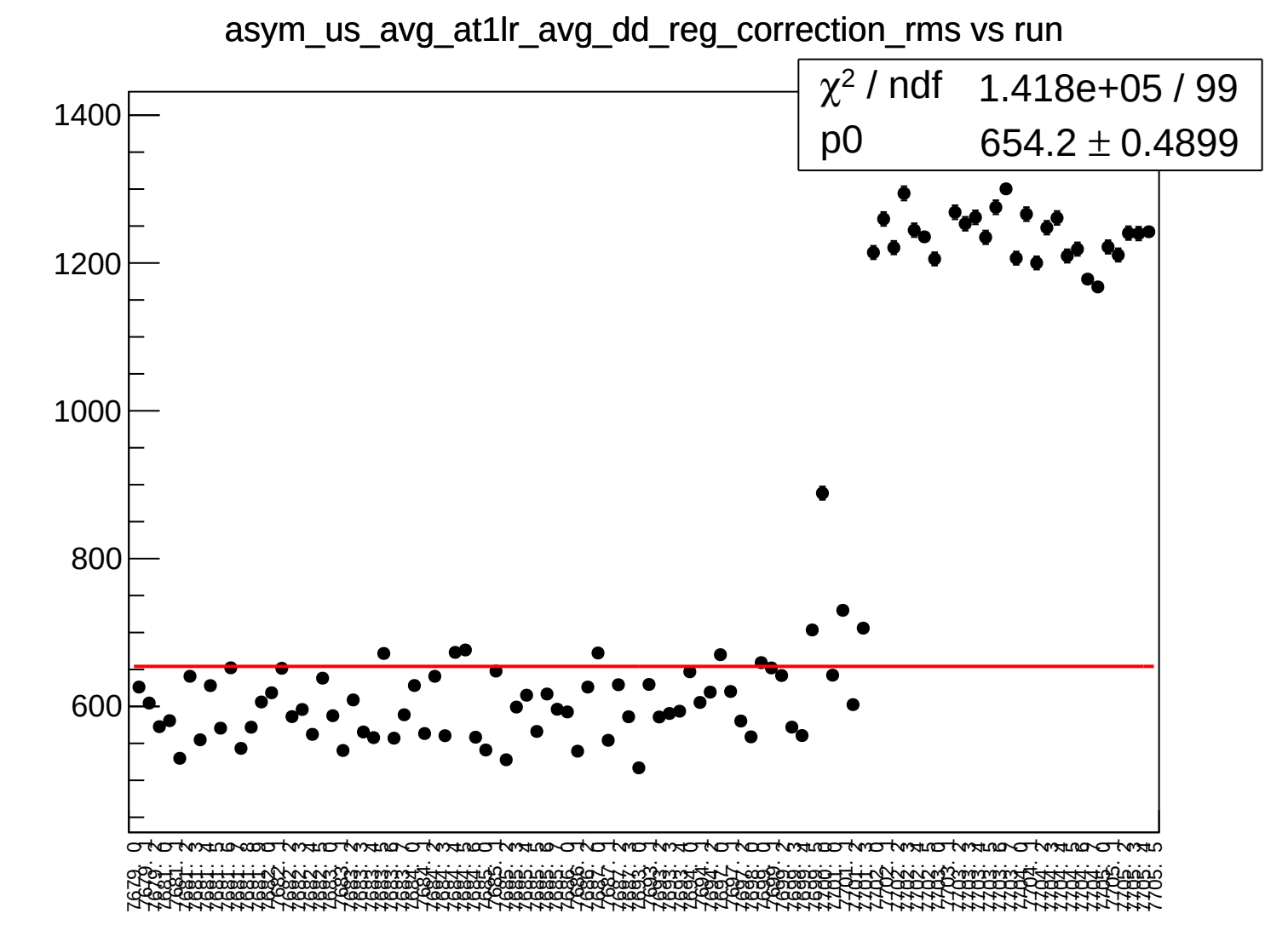

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.616e+05 / 99
p0 9.43e−11 ± 9.143e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

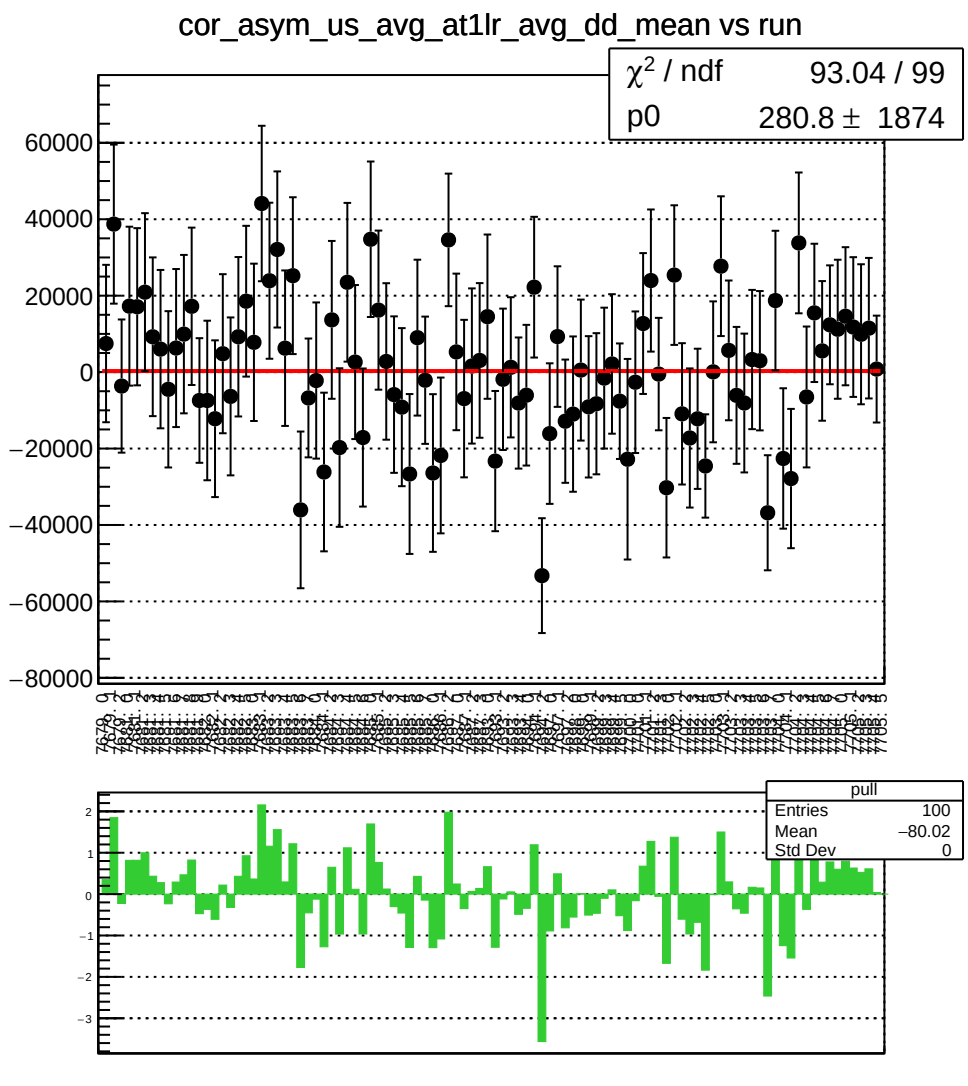

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 93.04 / 99
p0 280.8 ± 1874
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −80.02
Std Dev 0
2
1
0
−1
−2
−3

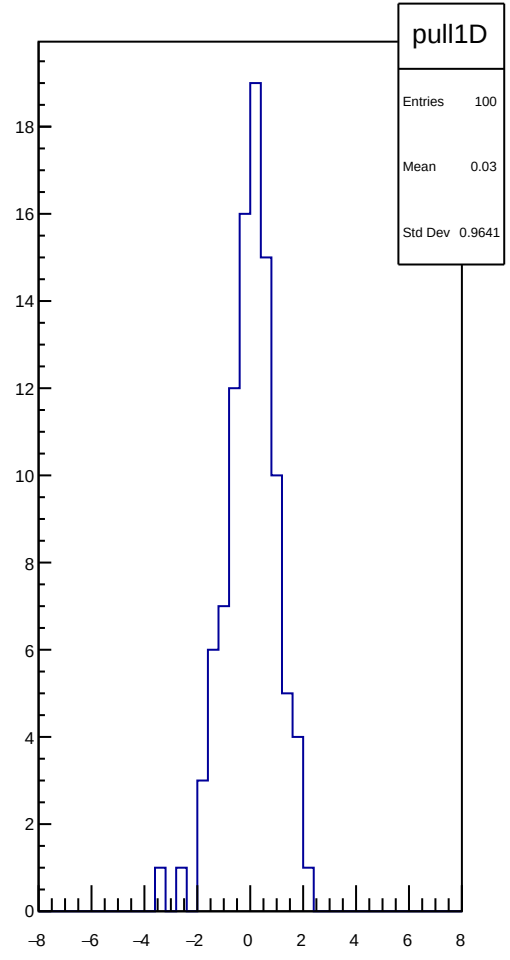

pull1D
Entries 100
Mean 0.03
Std Dev 0.9641
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

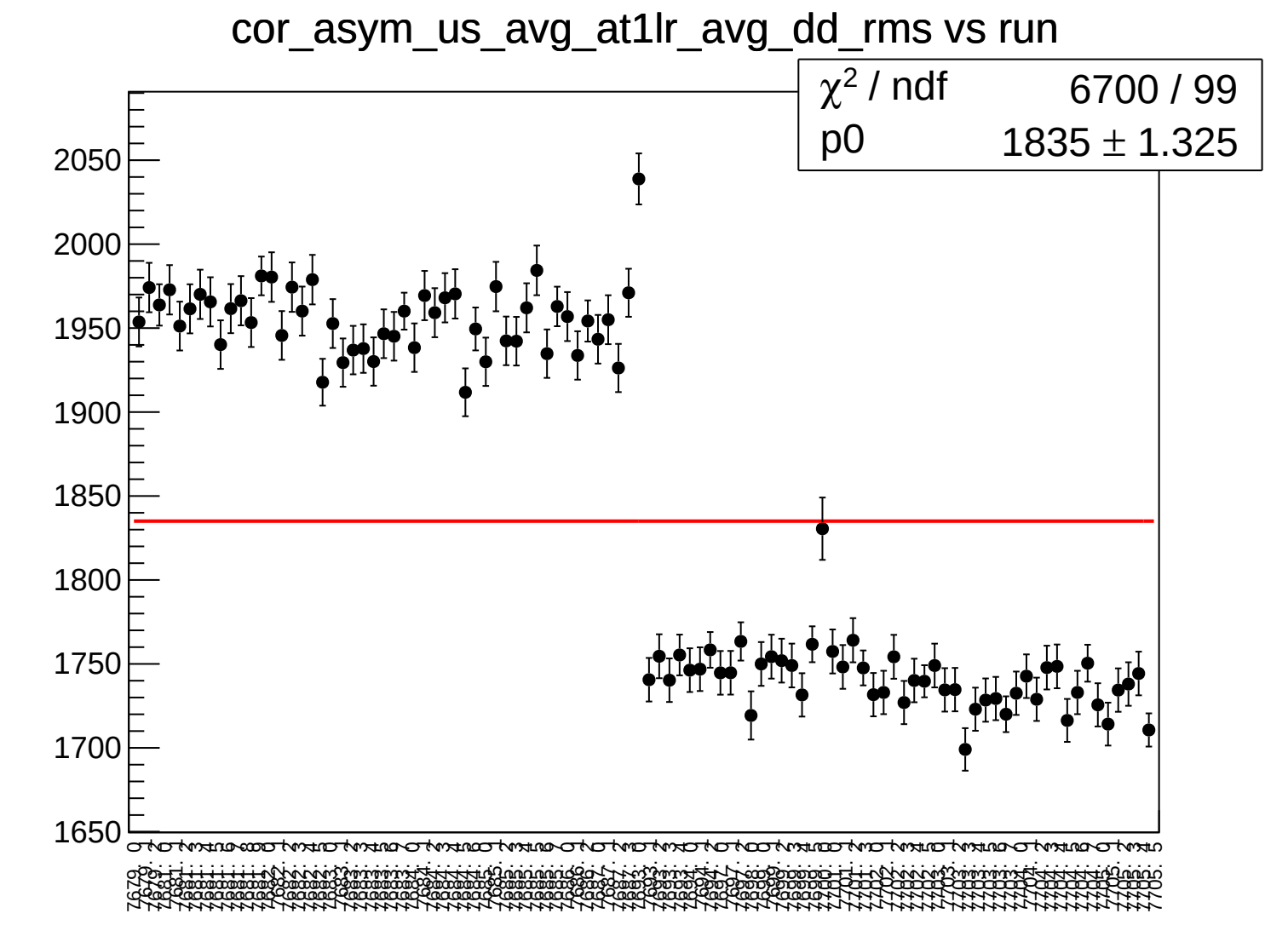

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 6700 / 99
p0 1835 ± 1.325
2050
2000
1950
1900
1850
1800
1750
1700
1650

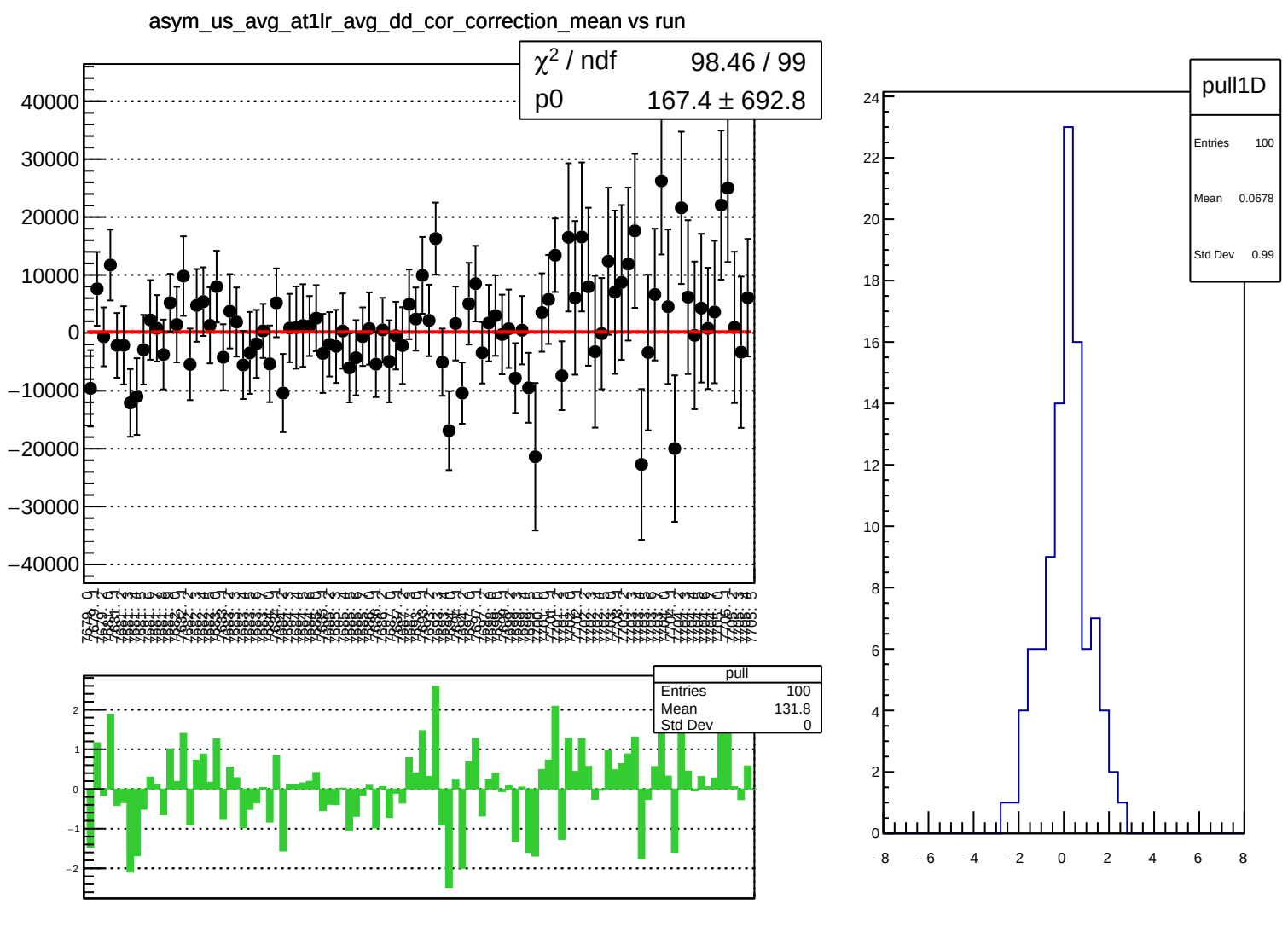

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 98.46 / 99
p0 167.5 ± 692.8
pull
Entries 100
Mean 131.8
Std Dev 0
pull1D
Entries 100
Mean 0.0678
Std Dev 0.9899

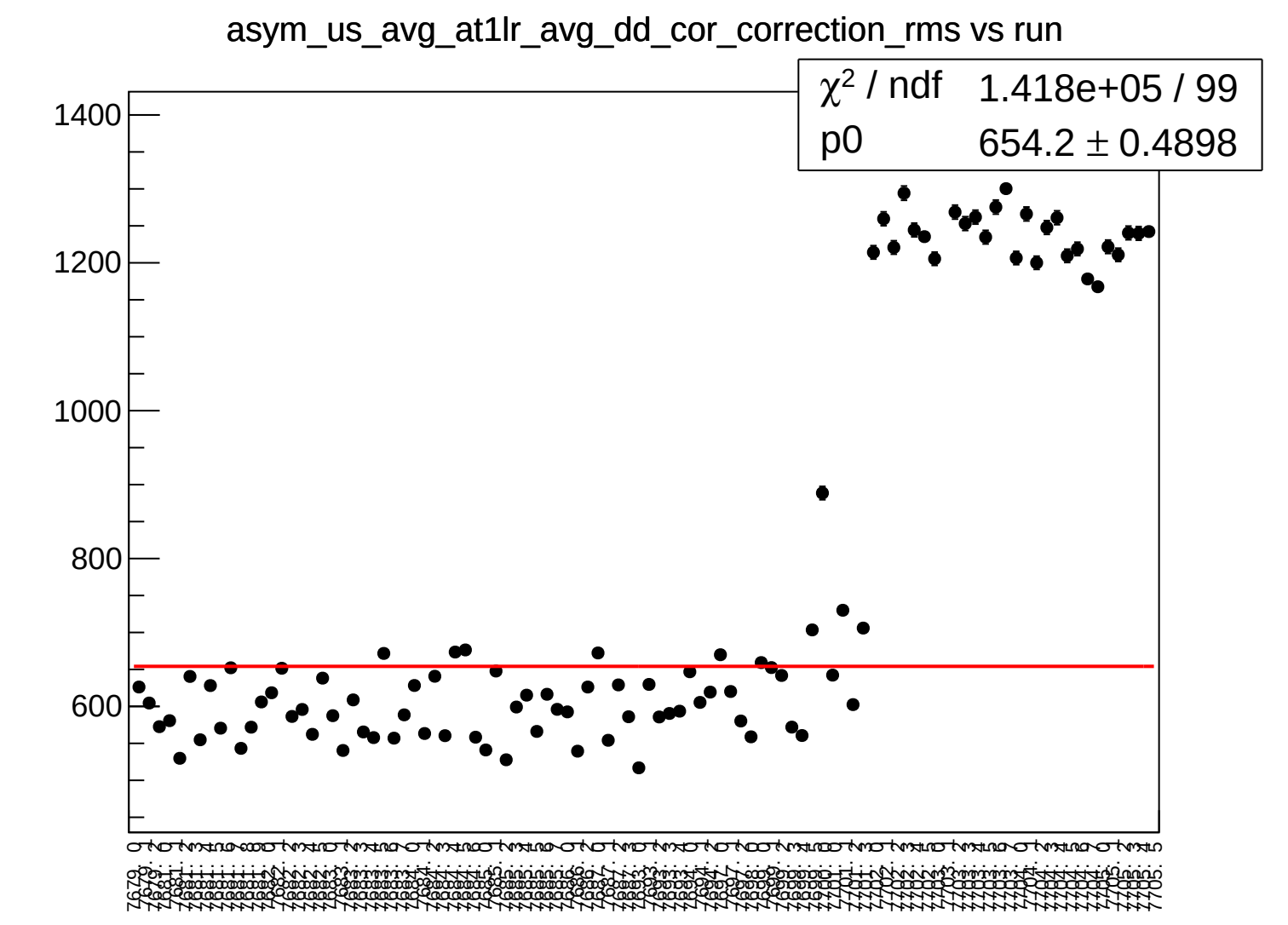

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.418e+05 / 99
p0 654.2 ± 0.4899
1400
1200
1000
800
600

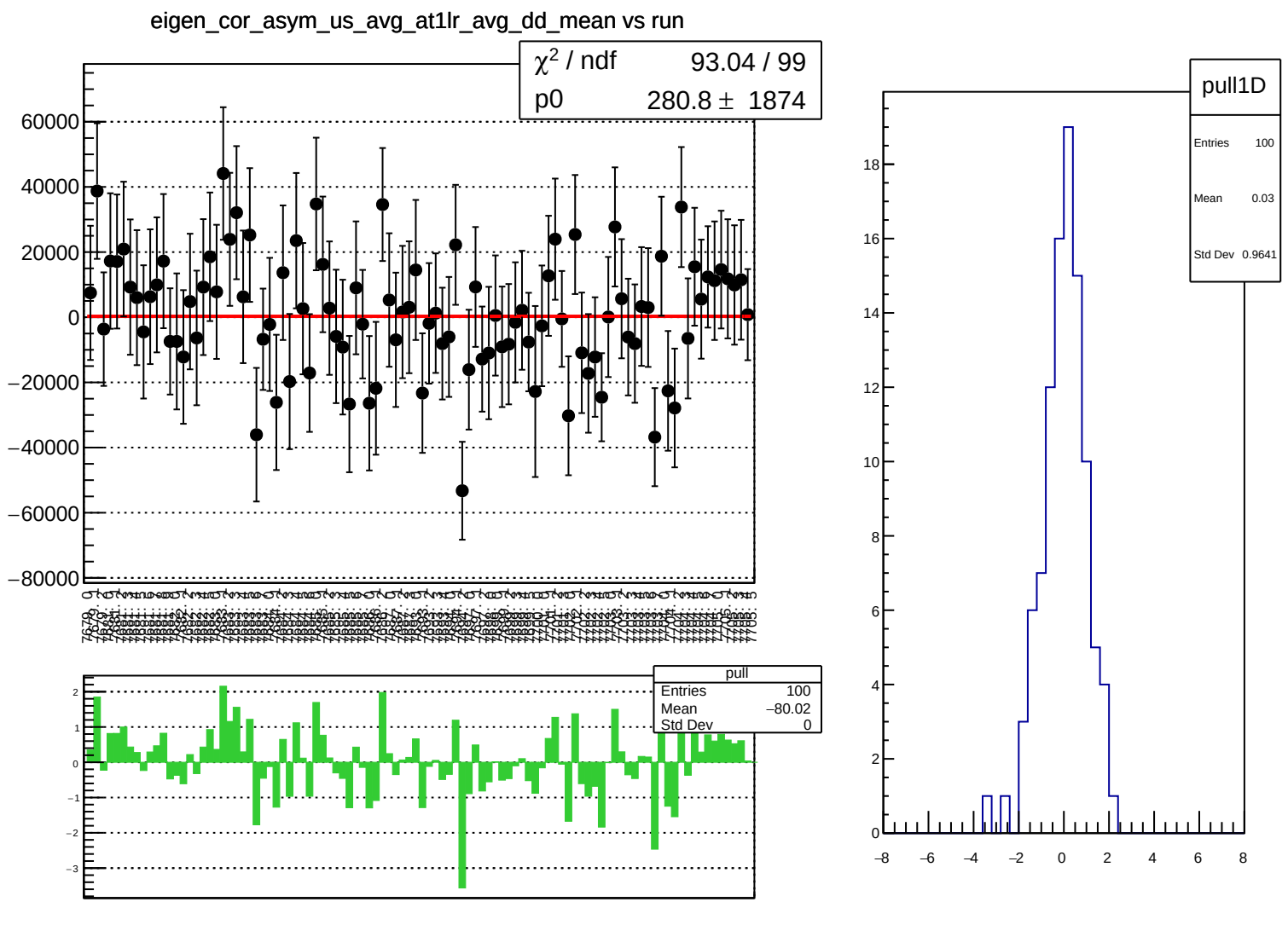

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 93.04 / 99
p0 280.8 ± 1874
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −80.02
Std Dev 0
2
1
0
−1
−2
−3

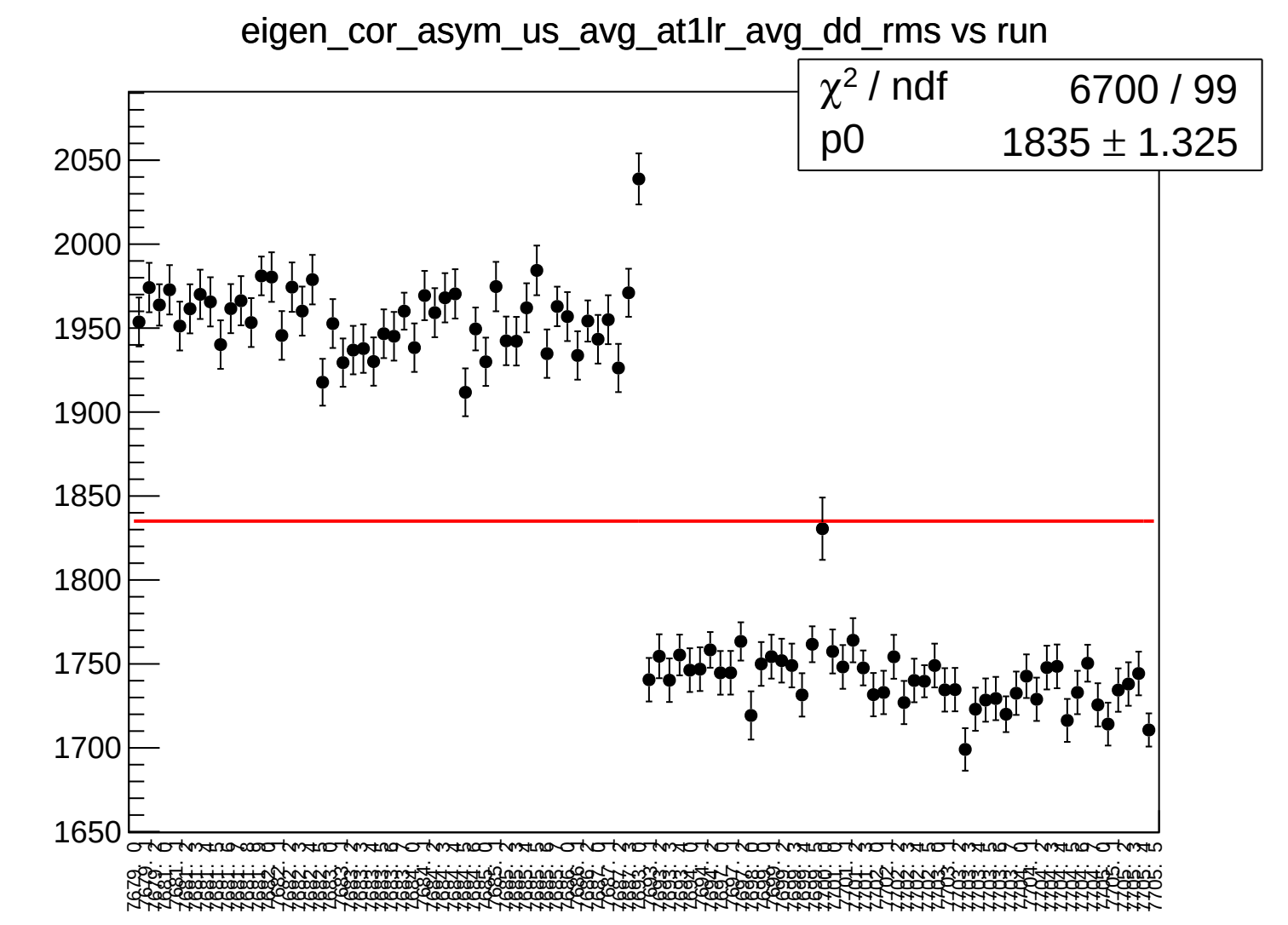

pull1D
Entries 100
Mean 0.03
Std Dev 0.9641
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

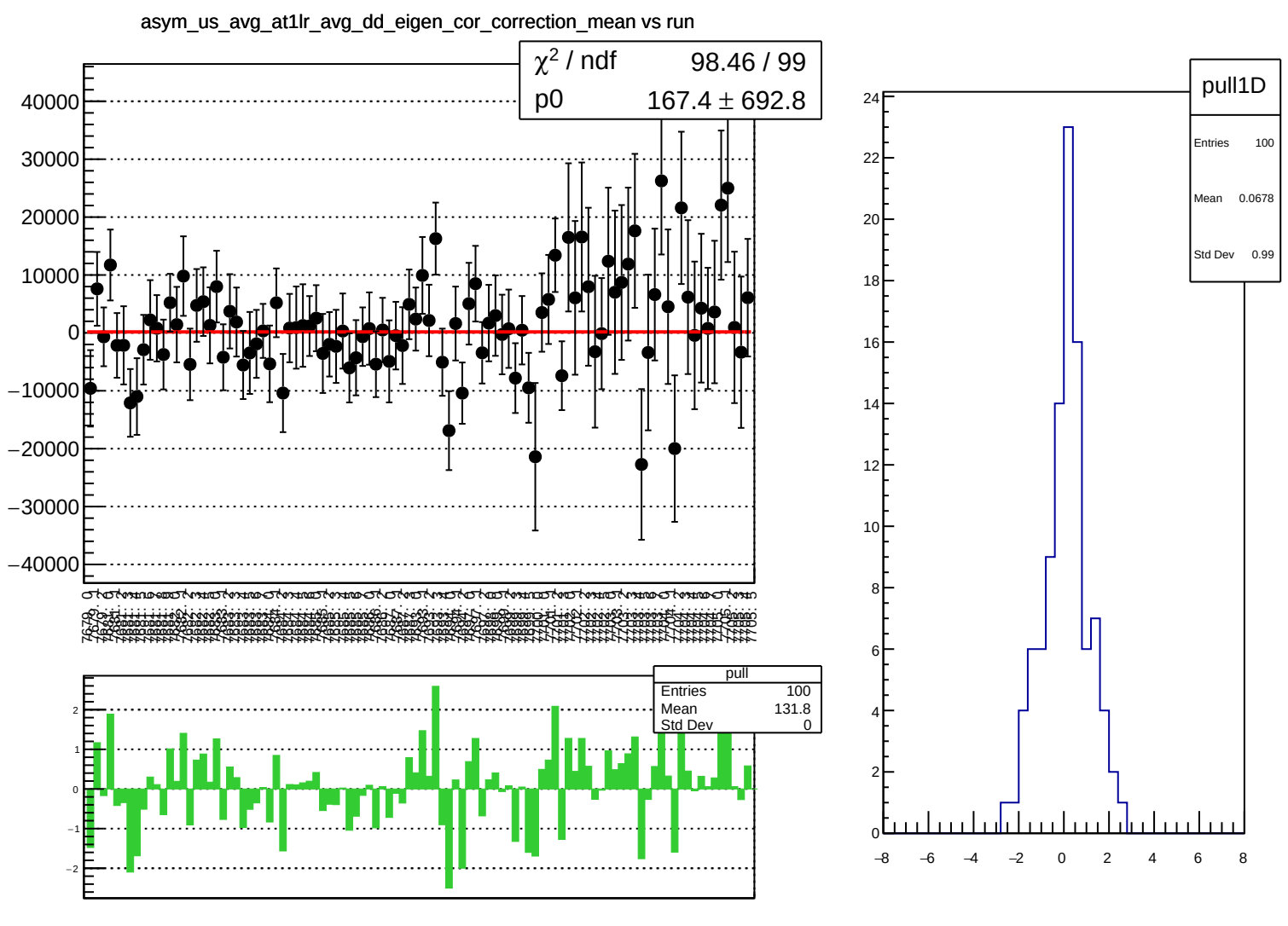

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 6700 / 99
p0 1835 ± 1.325
2050
2000
1950
1900
1850
1800
1750
1700
1650

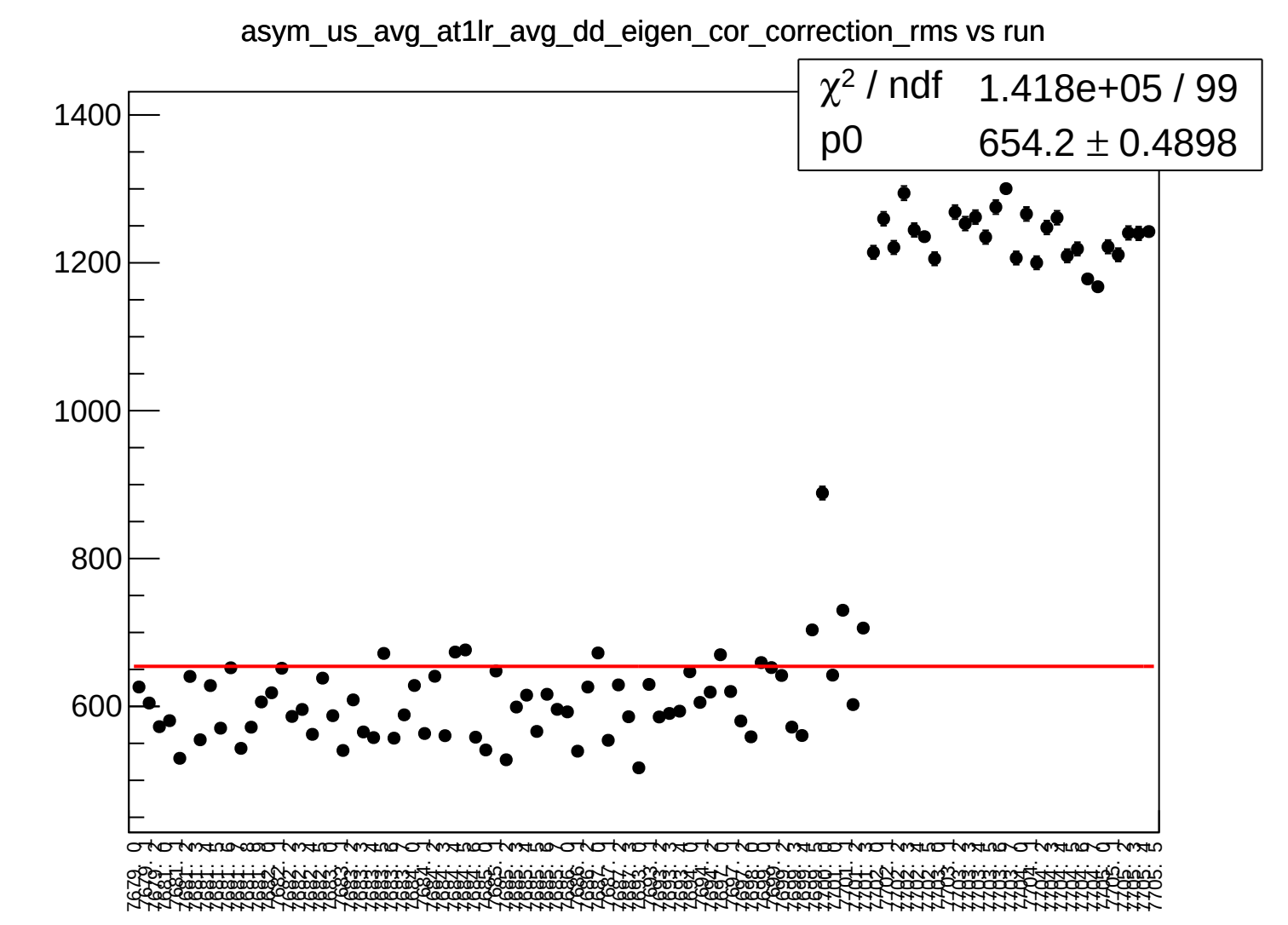

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 98.46 / 99
p0 167.4 ± 692.8
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 100
Mean 131.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.0678
Std Dev 0.99
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

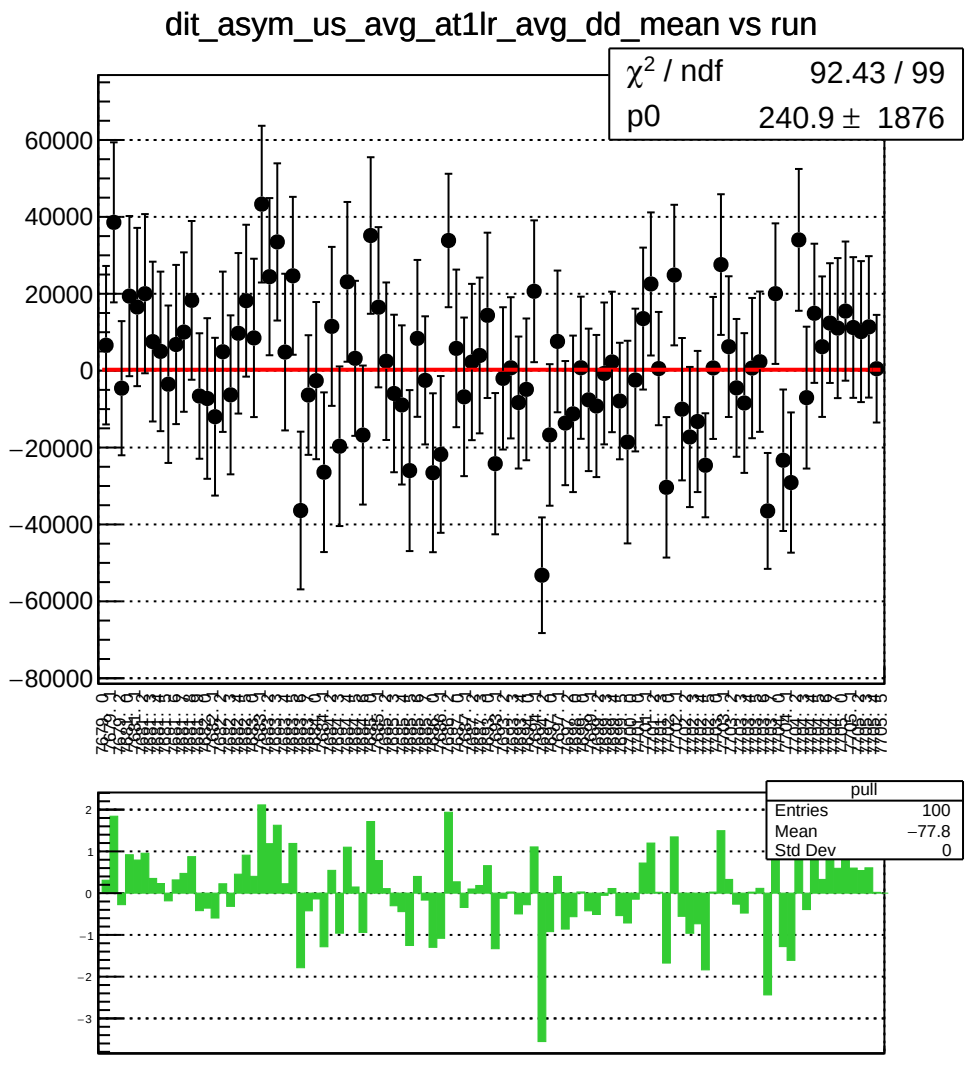

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.418e+05 / 99
p0 654.2 ± 0.4898
1400
1200
1000
800
600

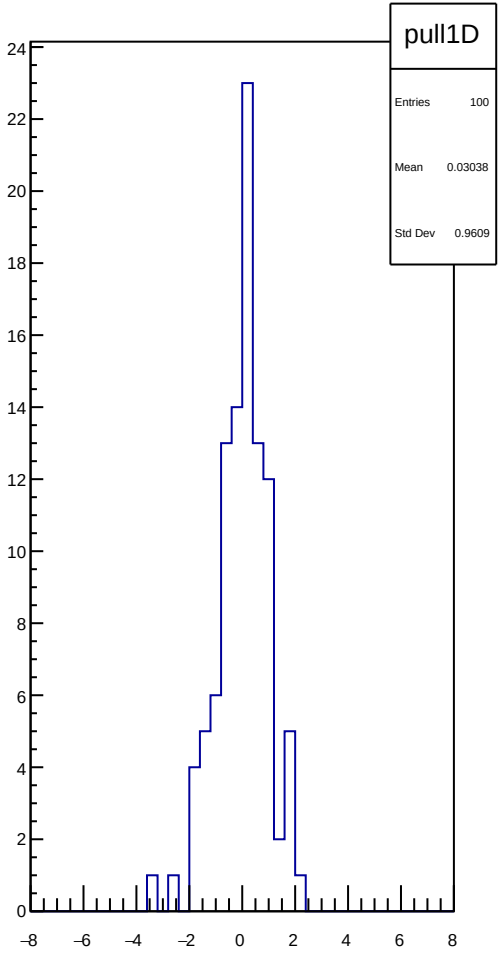

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 93.04 / 99
p0 280.8 ± 1874
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −80.02
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean 0.03
Std Dev 0.9641
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

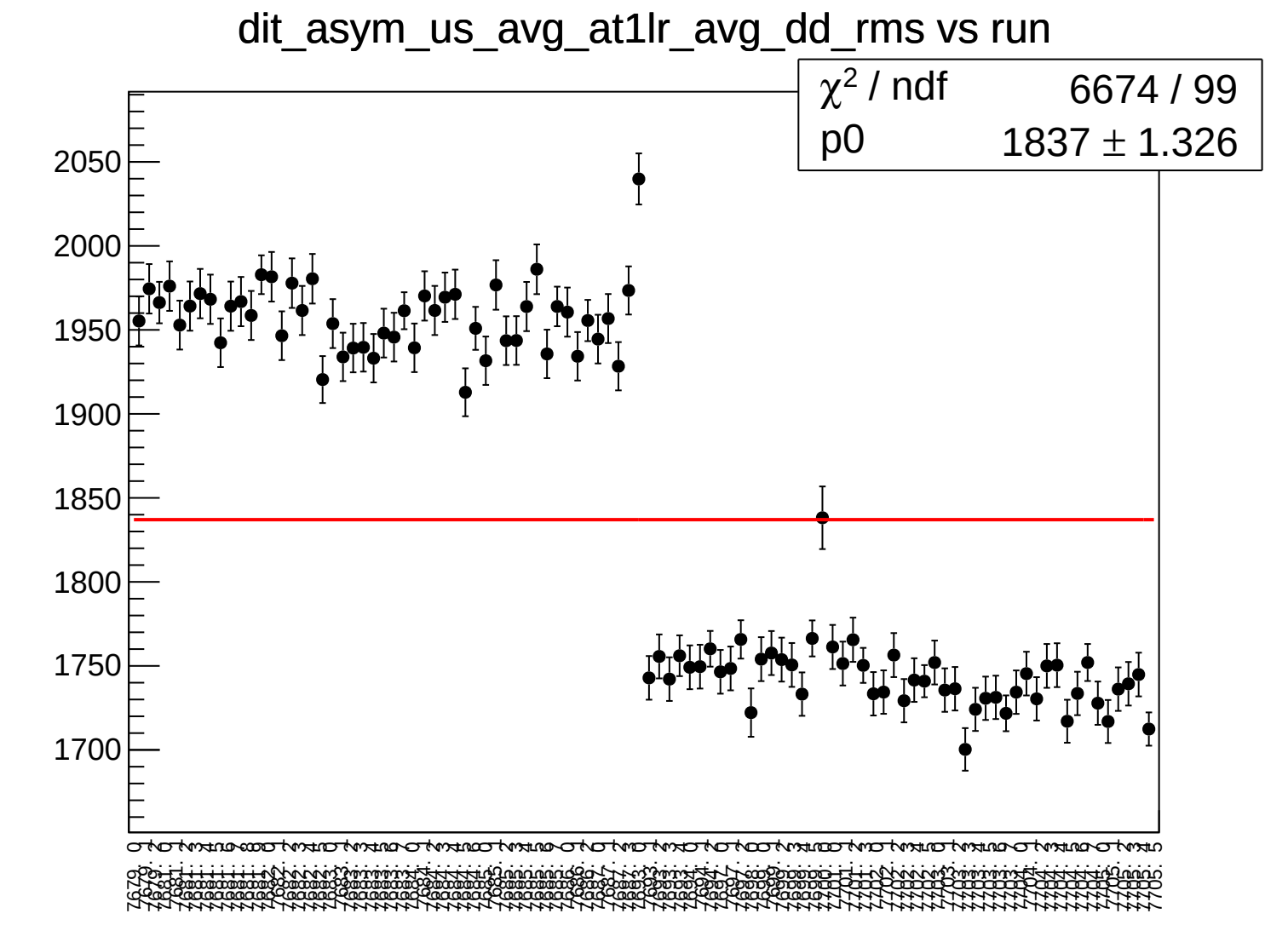

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 6700 / 99
p0 1835 ± 1.325
2050
2000
1950
1900
1850
1800
1750
1700
1650

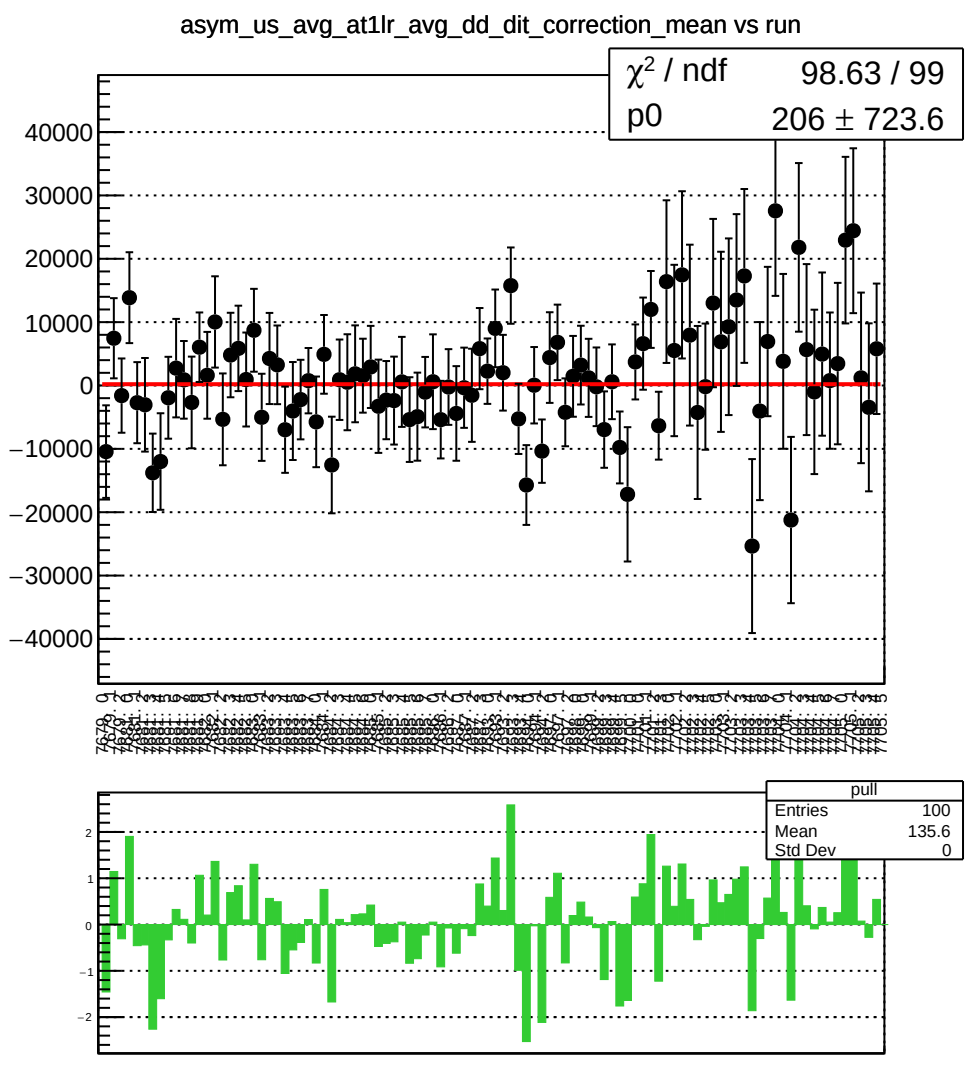

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 98.46 / 99
p0 167.4 ± 692.8
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 100
Mean 131.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.0678
Std Dev 0.99
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

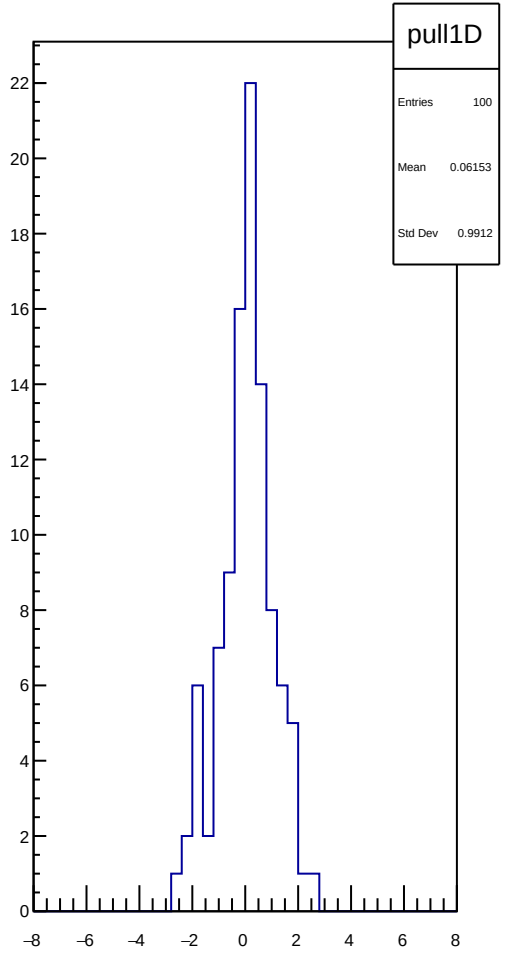

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.418e+05 / 99
p0 654.2 ± 0.4898
1400
1200
1000
800
600

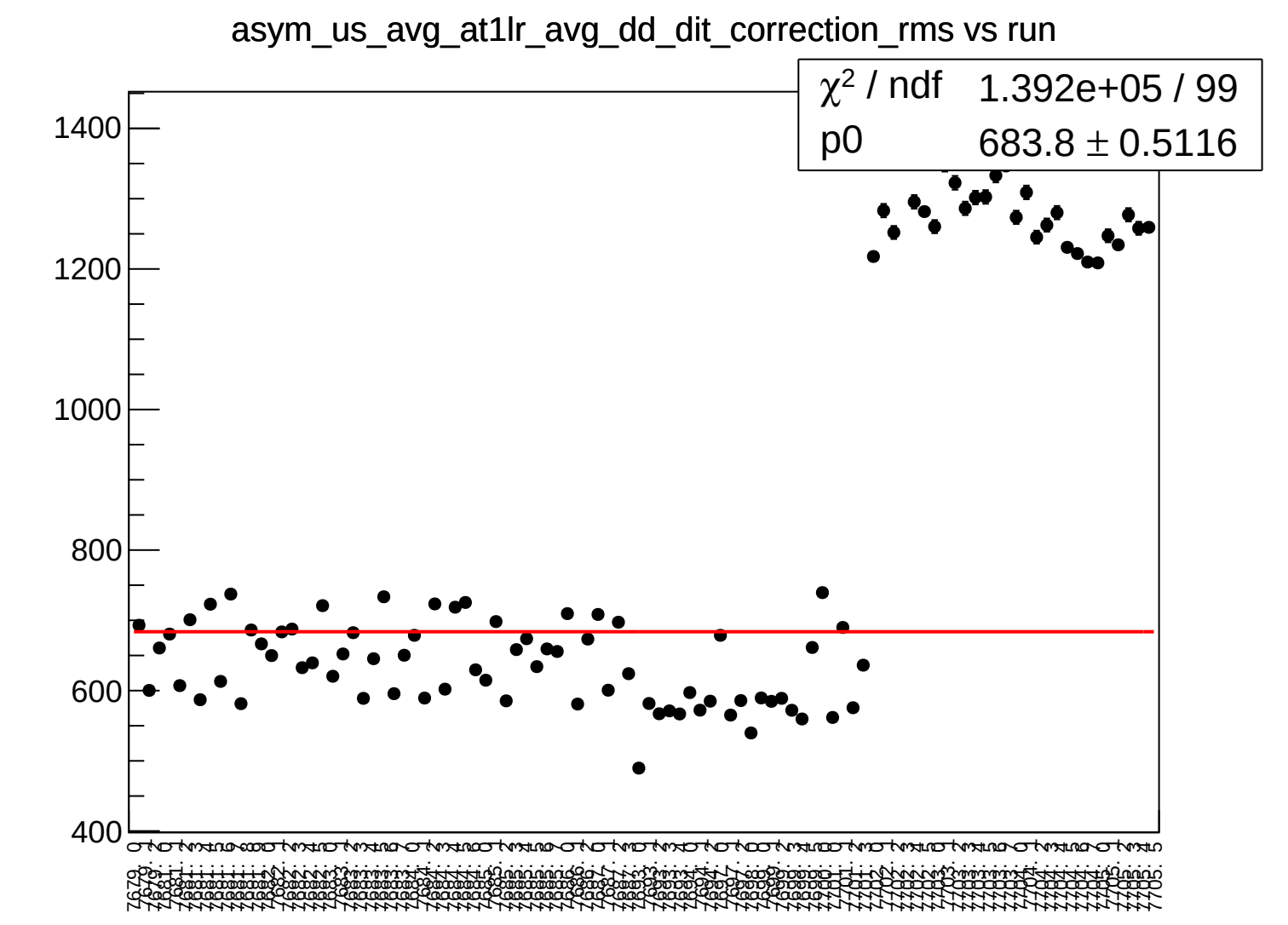

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 92.43 / 99
p0 240.9 ± 1876
pull
Entries 100
Mean −77.8
Std Dev 0

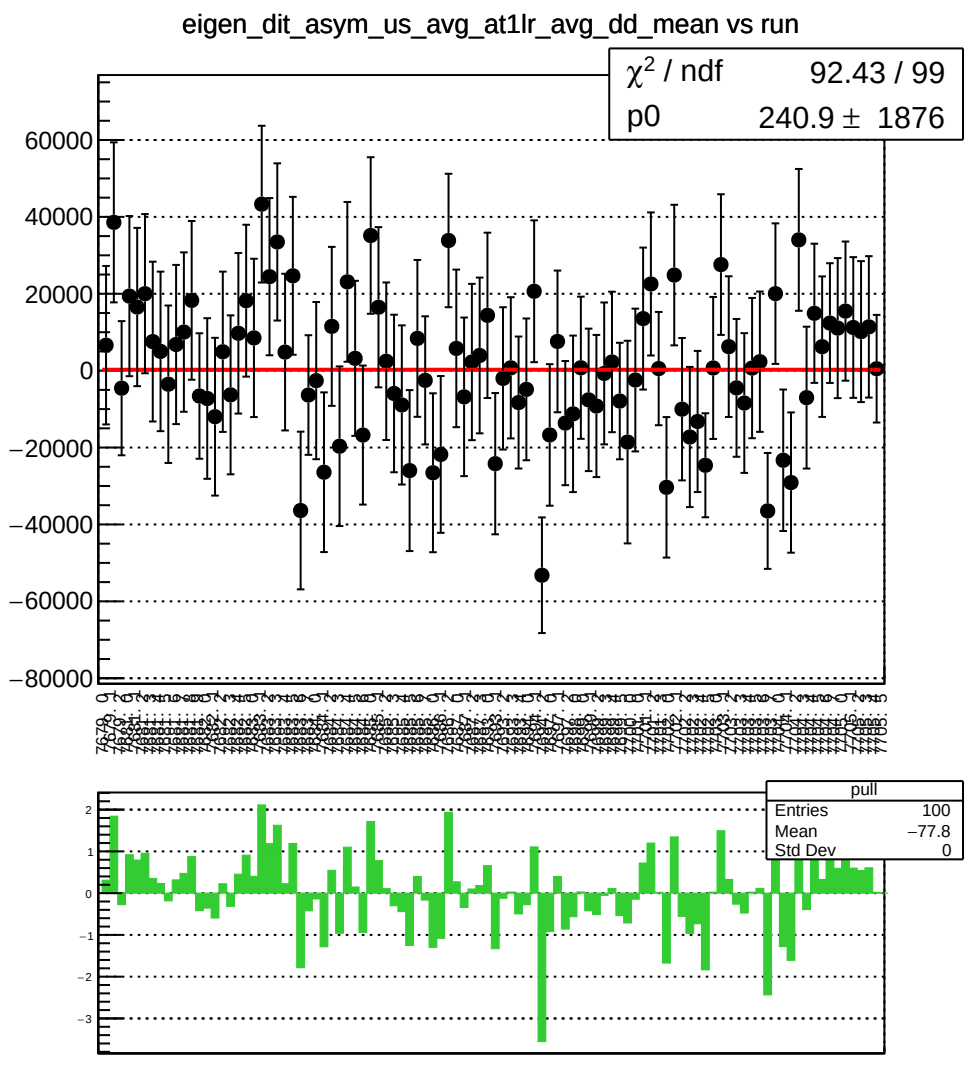

pull1D
Entries 100
Mean 0.03038
Std Dev 0.9609

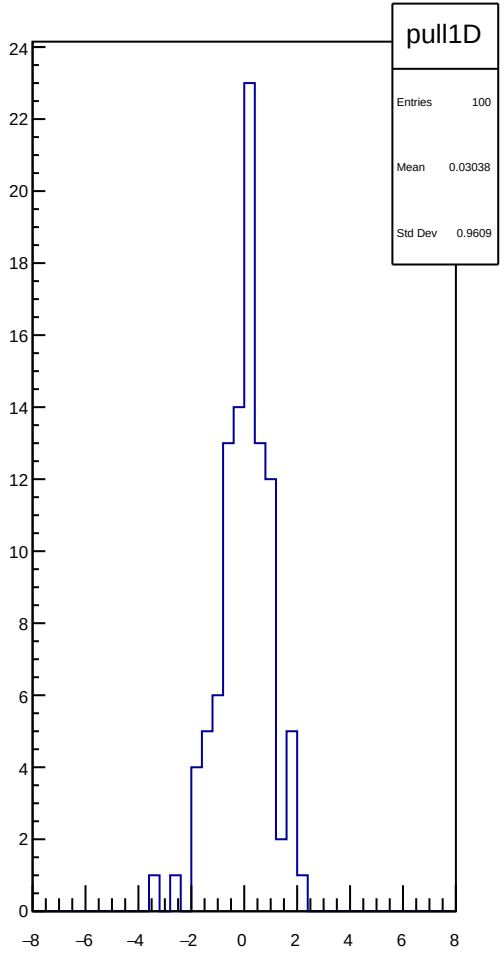

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 6674 / 99
p0 1837 ± 1.326
2050
2000
1950
1900
1850
1800
1750
1700

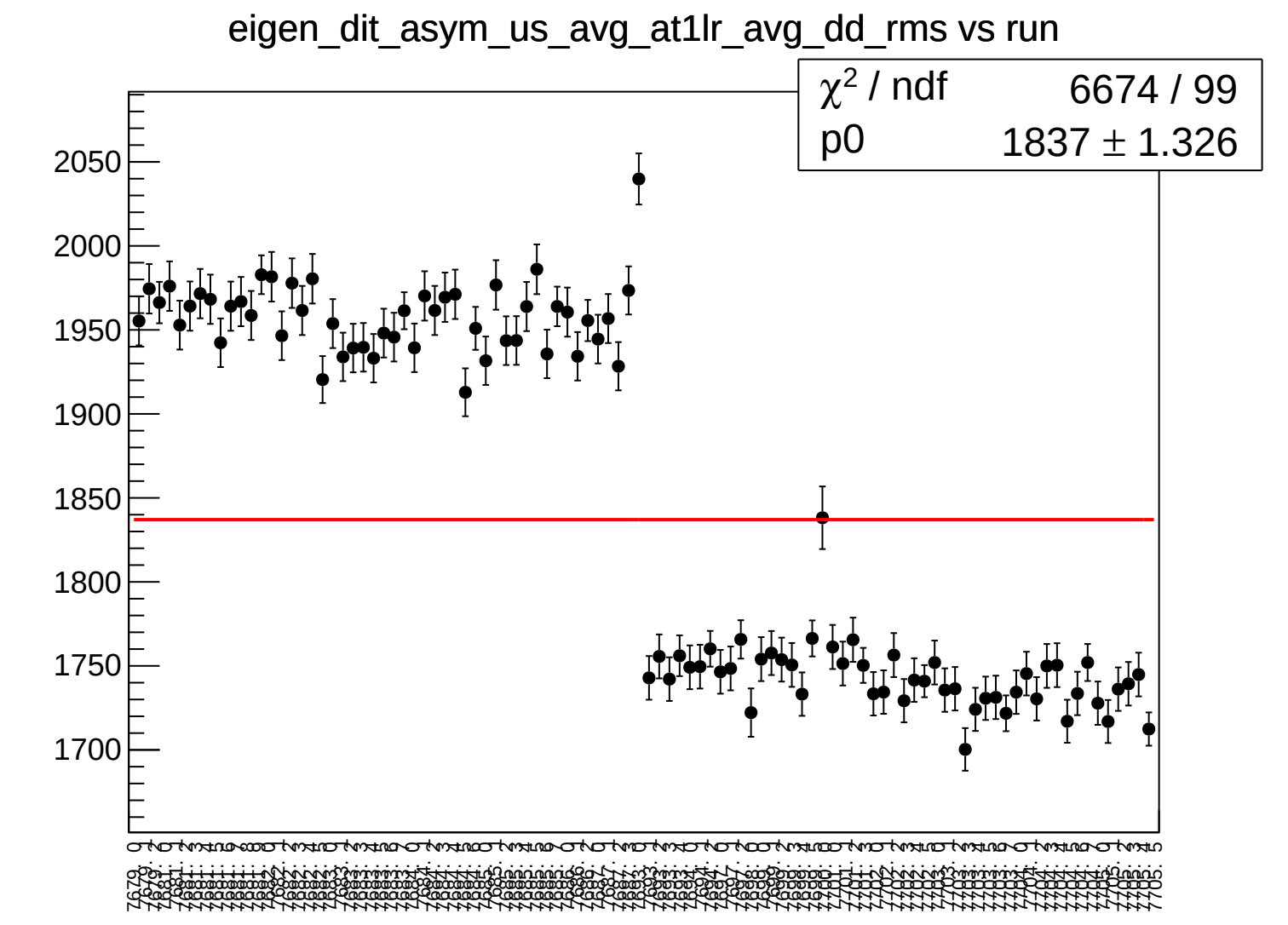

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 98.63 / 99
p0 206 ± 723.6
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 100
Mean 135.6
Std Dev 0
2
1
0
−1
−2

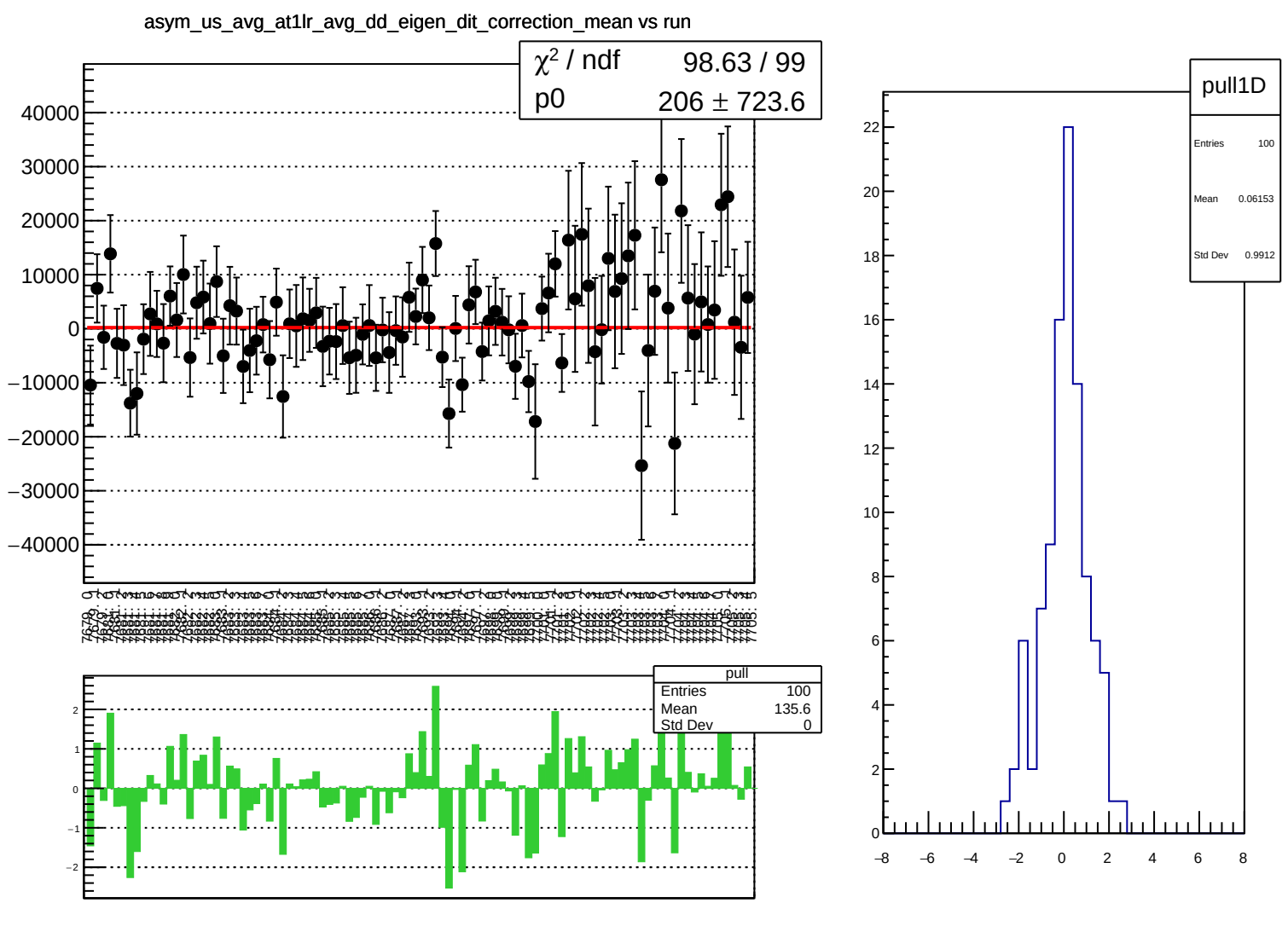

pull1D
Entries 100
Mean 0.06153
Std Dev 0.9912
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

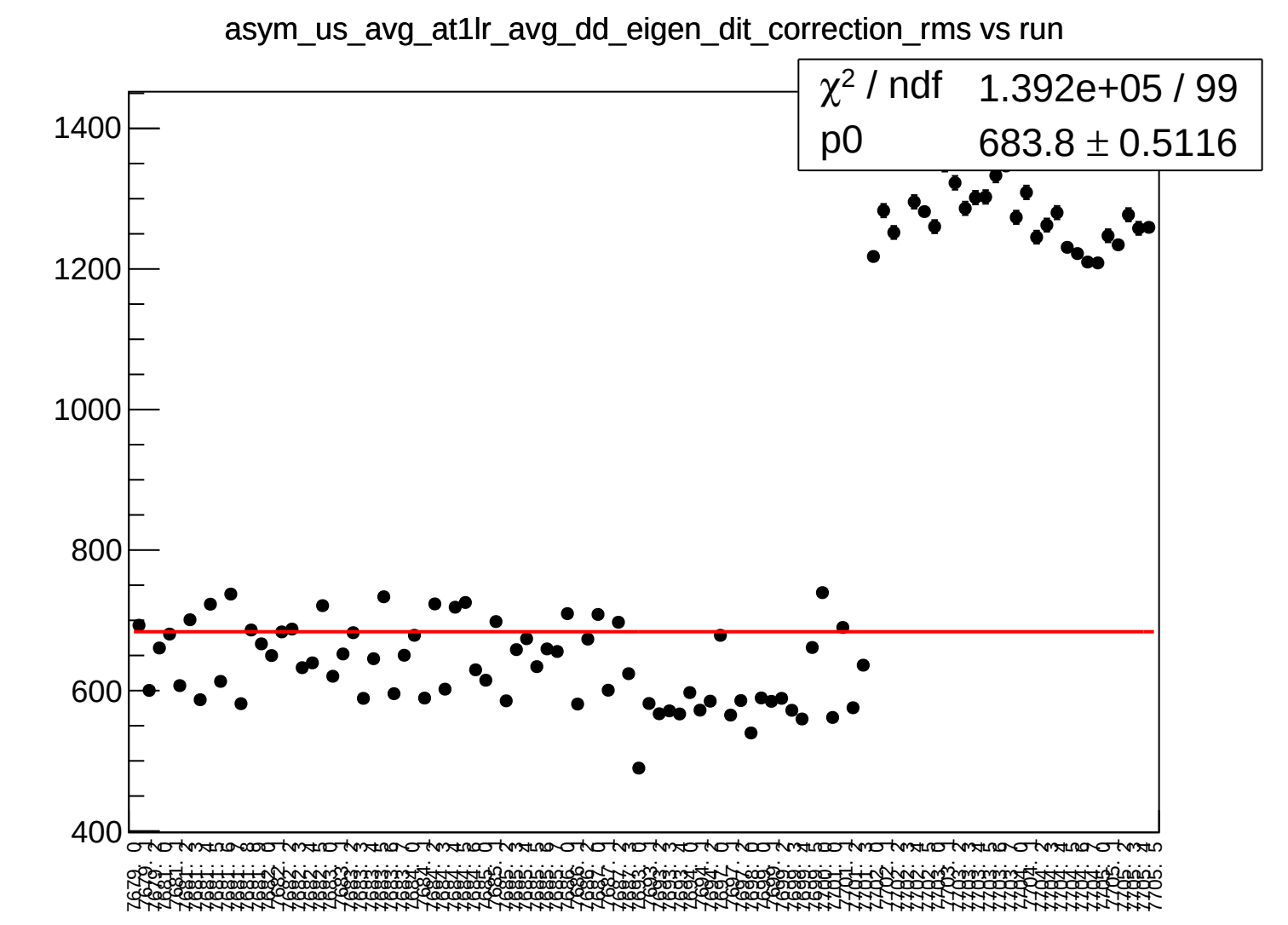

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.392e+05 / 99
p0 683.8 ± 0.5116
1400
1200
1000
800
600
400

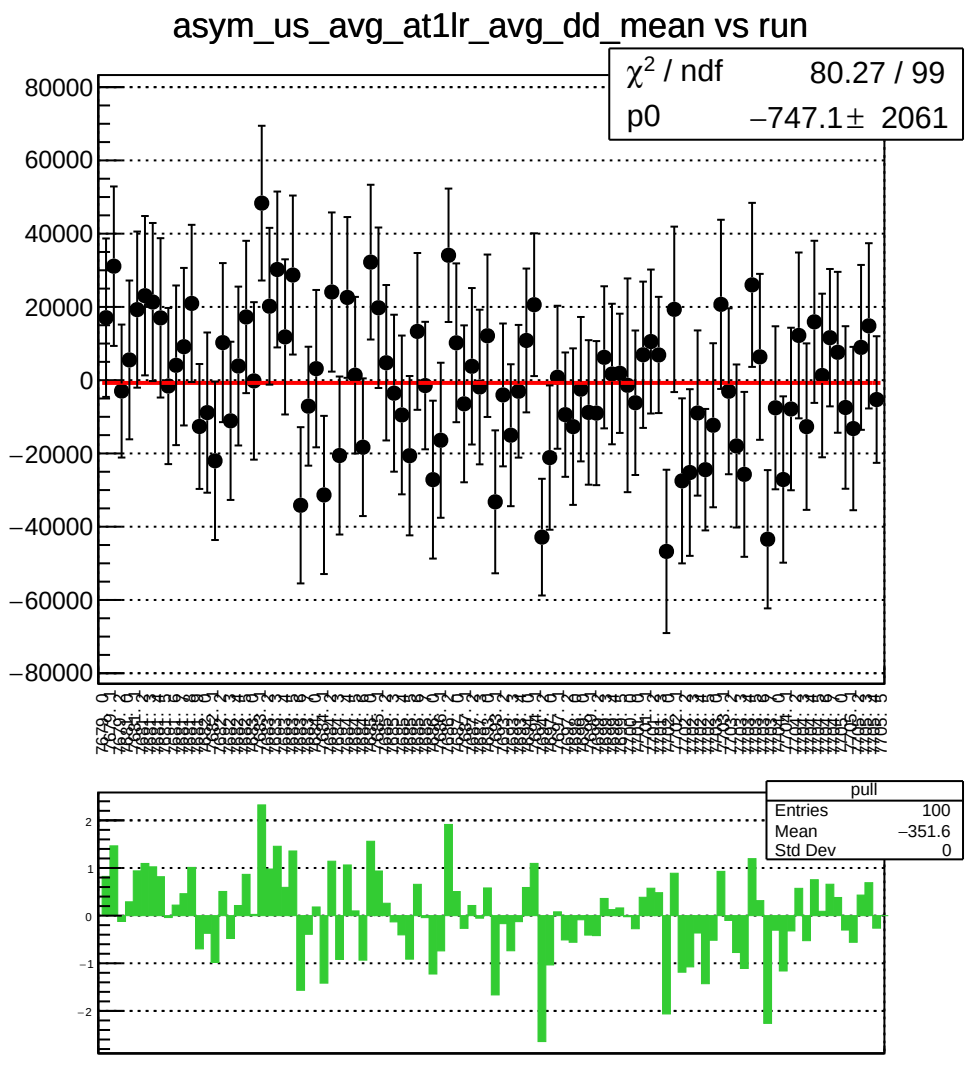

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 92.43 / 99
p0 240.9 ± 1876
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −77.8
Std Dev 0
2
1
0
−1
−2
−3

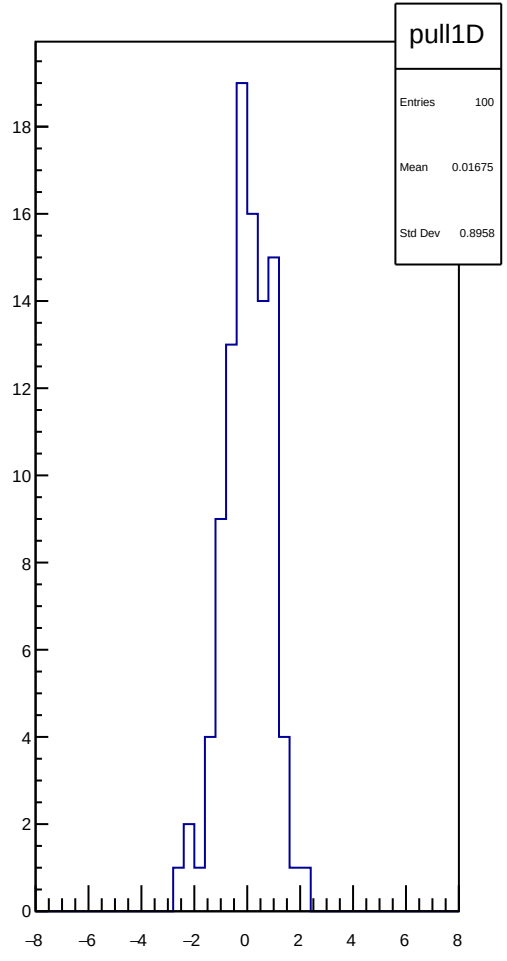

pull1D
Entries 100
Mean 0.03038
Std Dev 0.9609
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

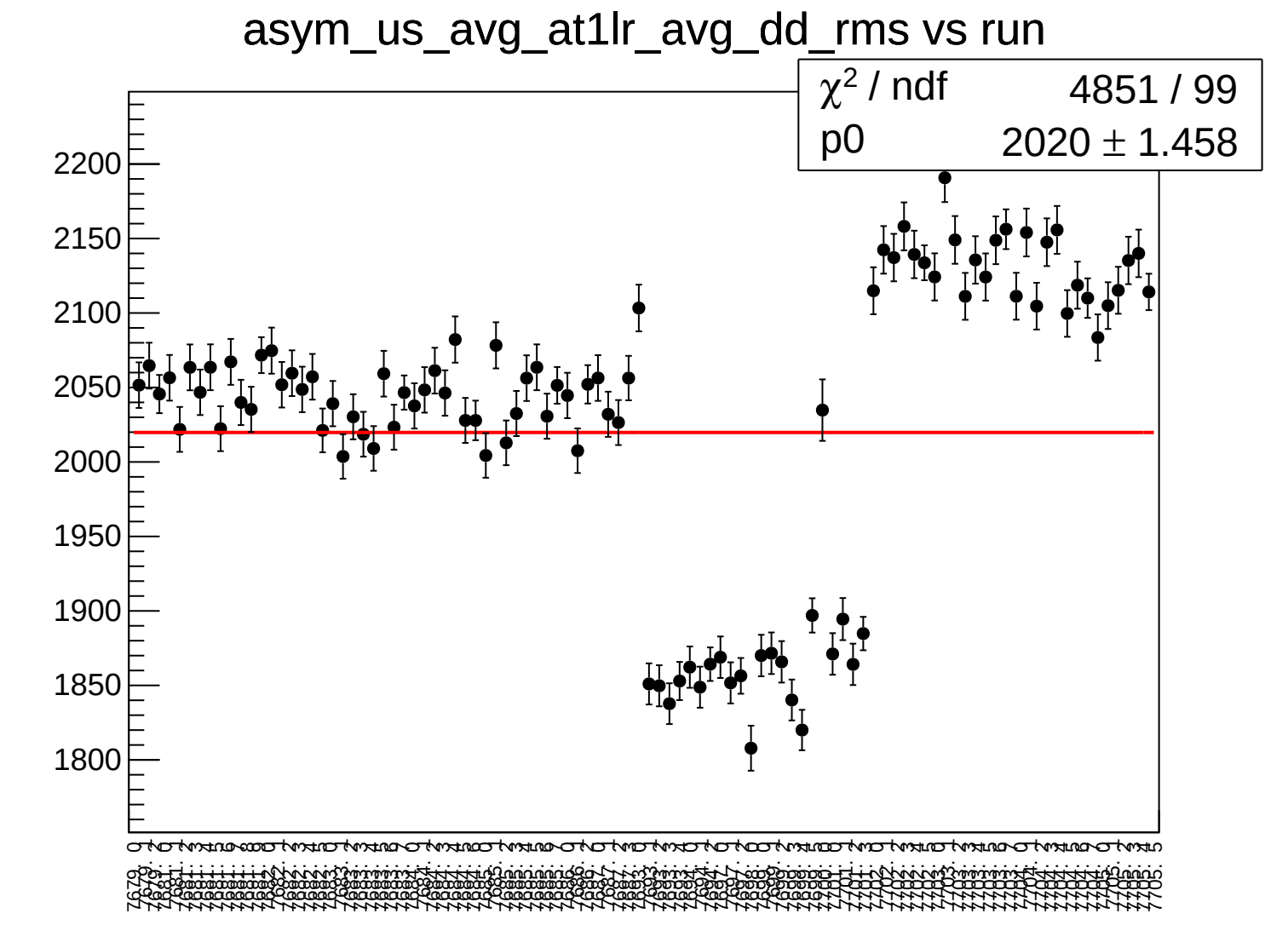

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 6674 / 99
p0 1837 ± 1.326
2050
2000
1950
1900
1850
1800
1750
1700

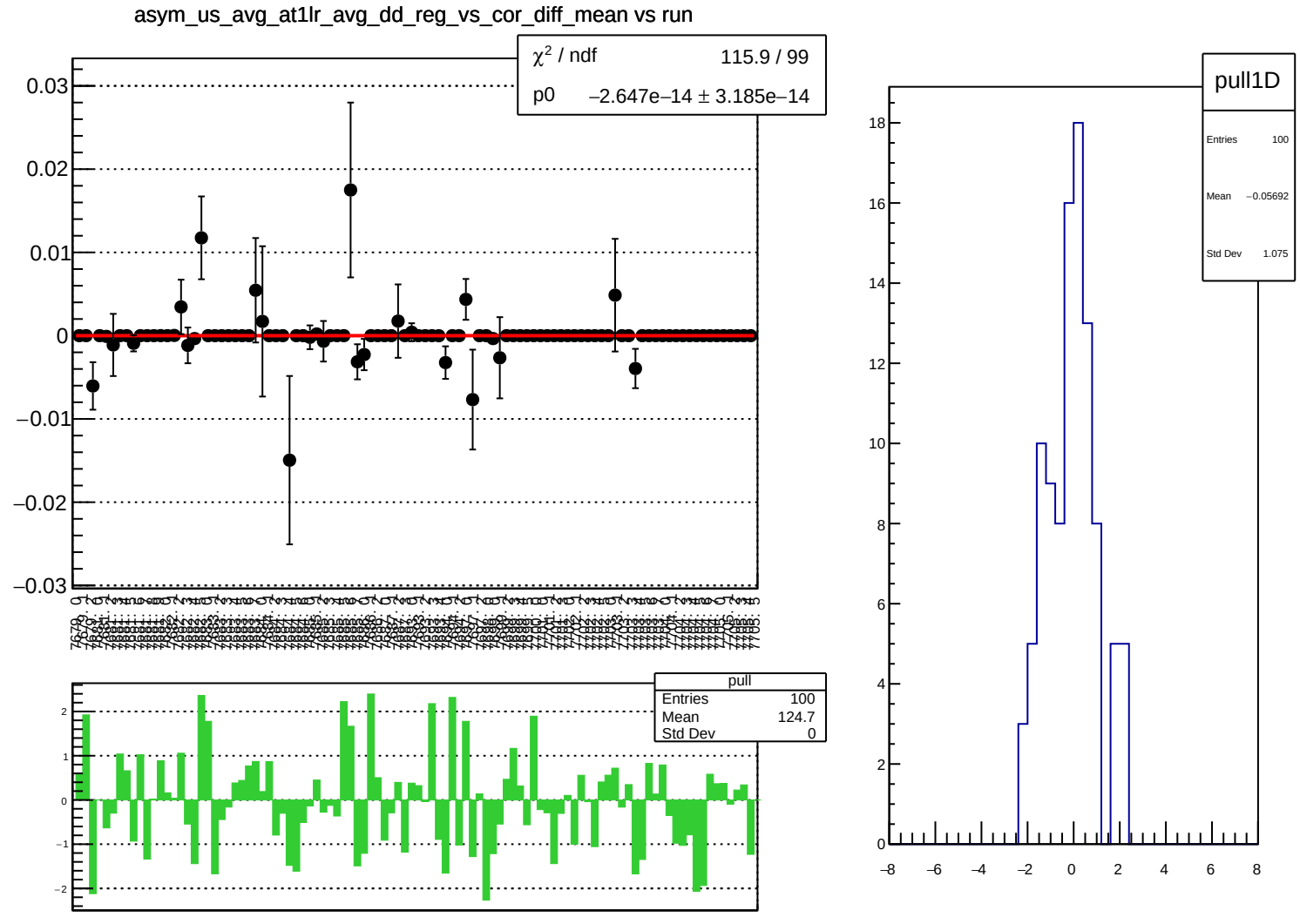

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 98.63 / 99
p0 206 ± 723.6
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 100
Mean 135.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.06153
Std Dev 0.9912
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

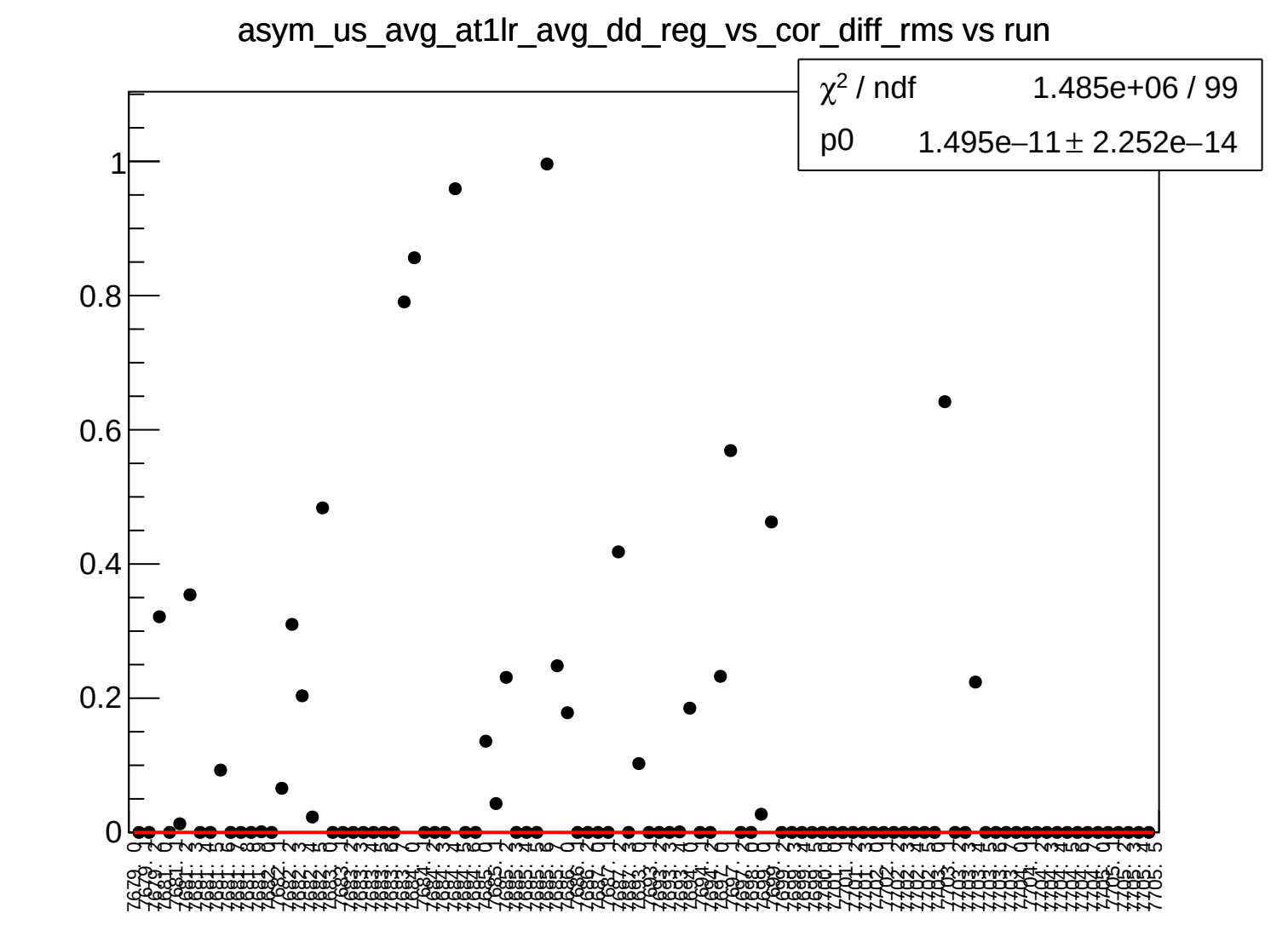

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.392e+05 / 99
p0 683.8 ± 0.5116
1400
1200
1000
800
600
400

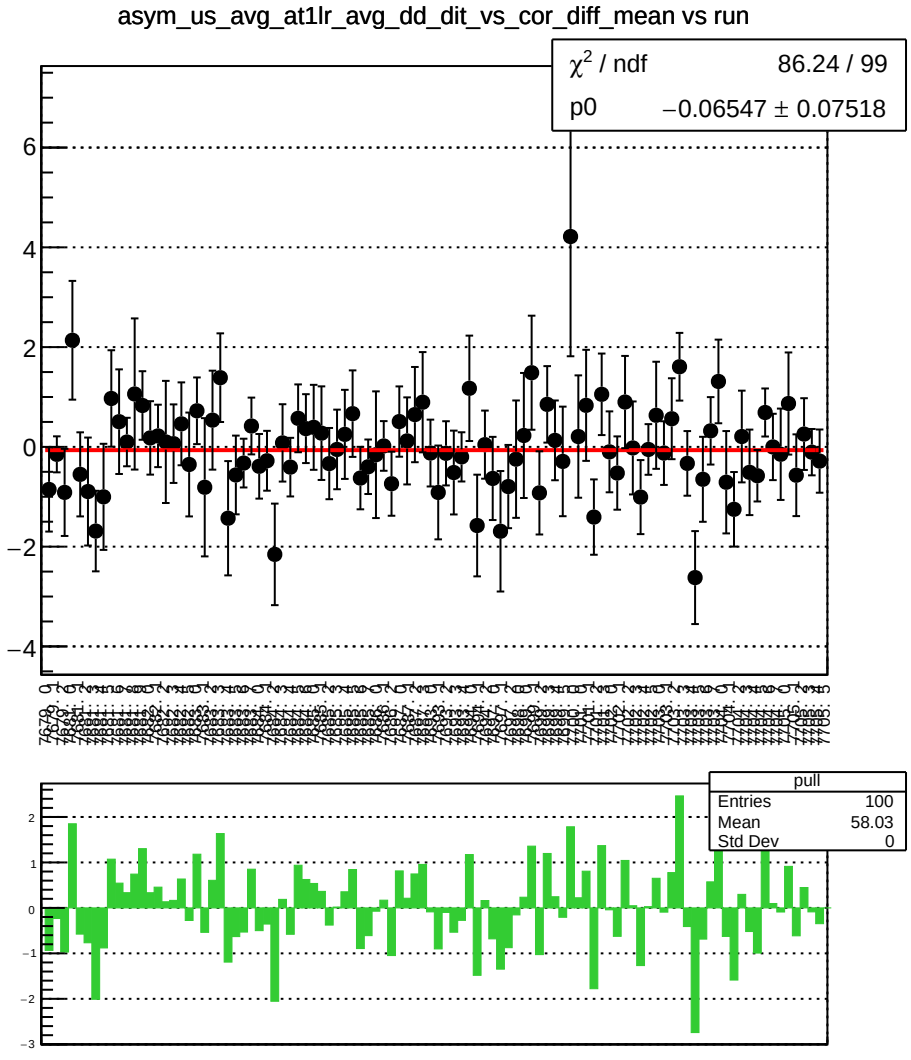

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 80.27 / 99
p0 −747.1± 2061
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −351.6
Std Dev 0
2
1
0
−1
−2

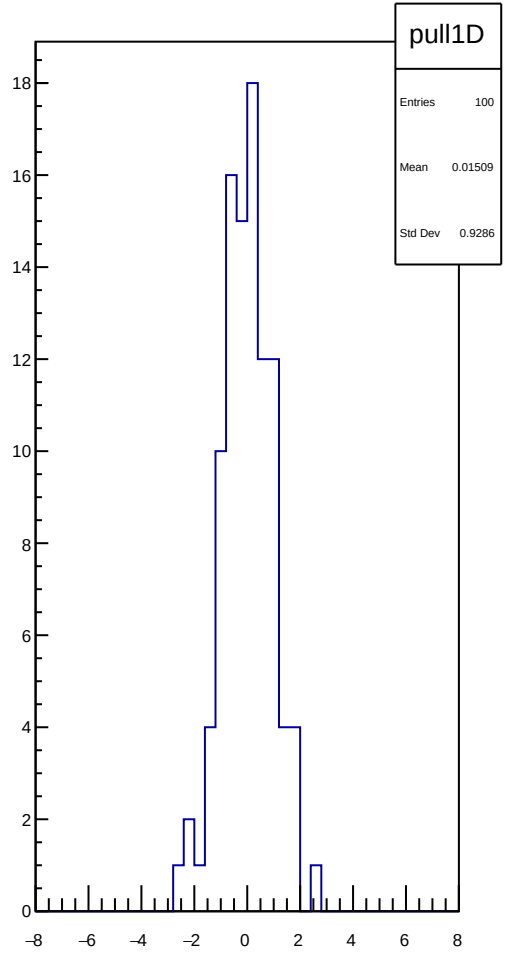

pull1D
Entries 100
Mean 0.01675
Std Dev 0.8958
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

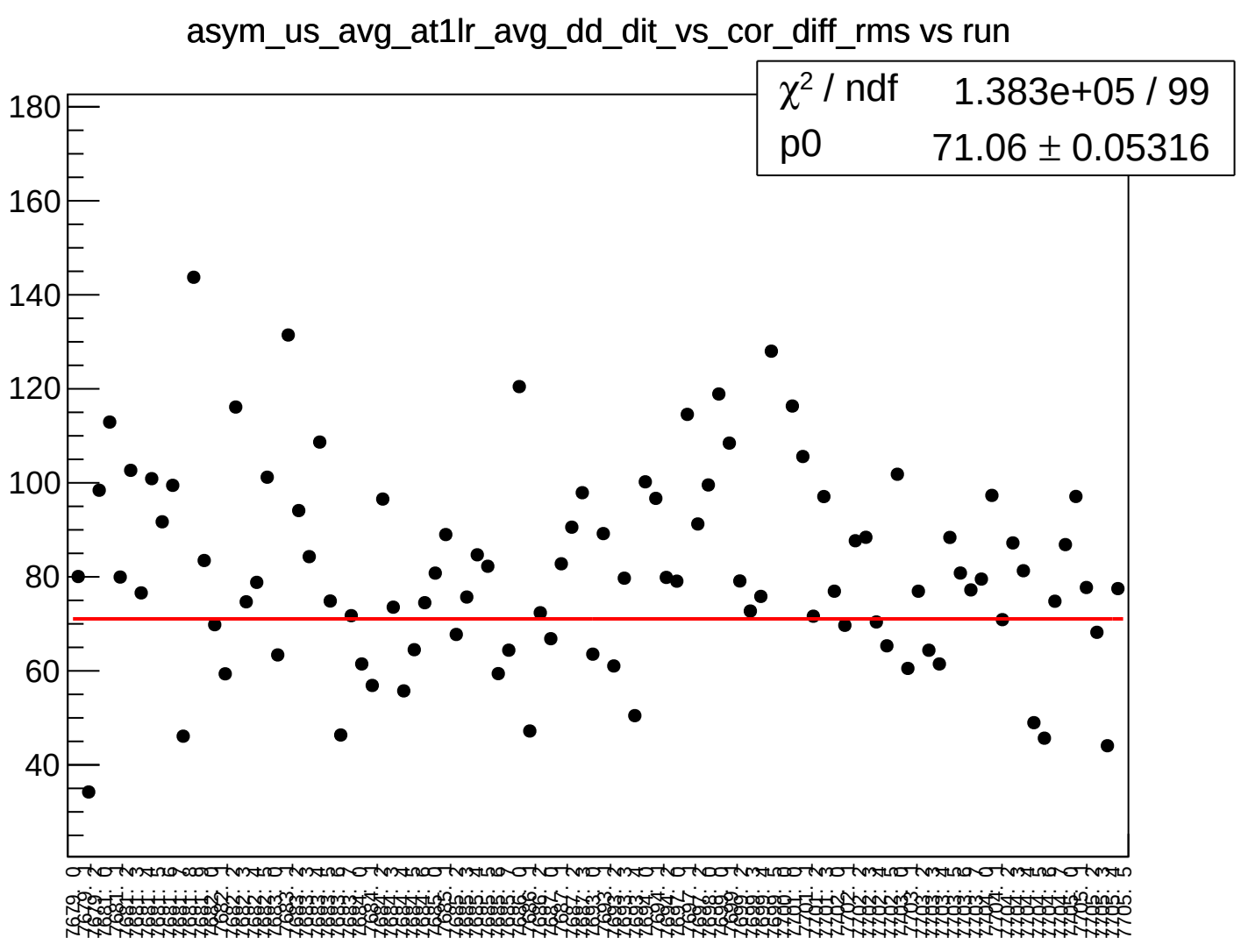

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 4851 / 99
p0 2020 ± 1.458
2200
2150
2100
2050
2000
1950
1900
1850
1800

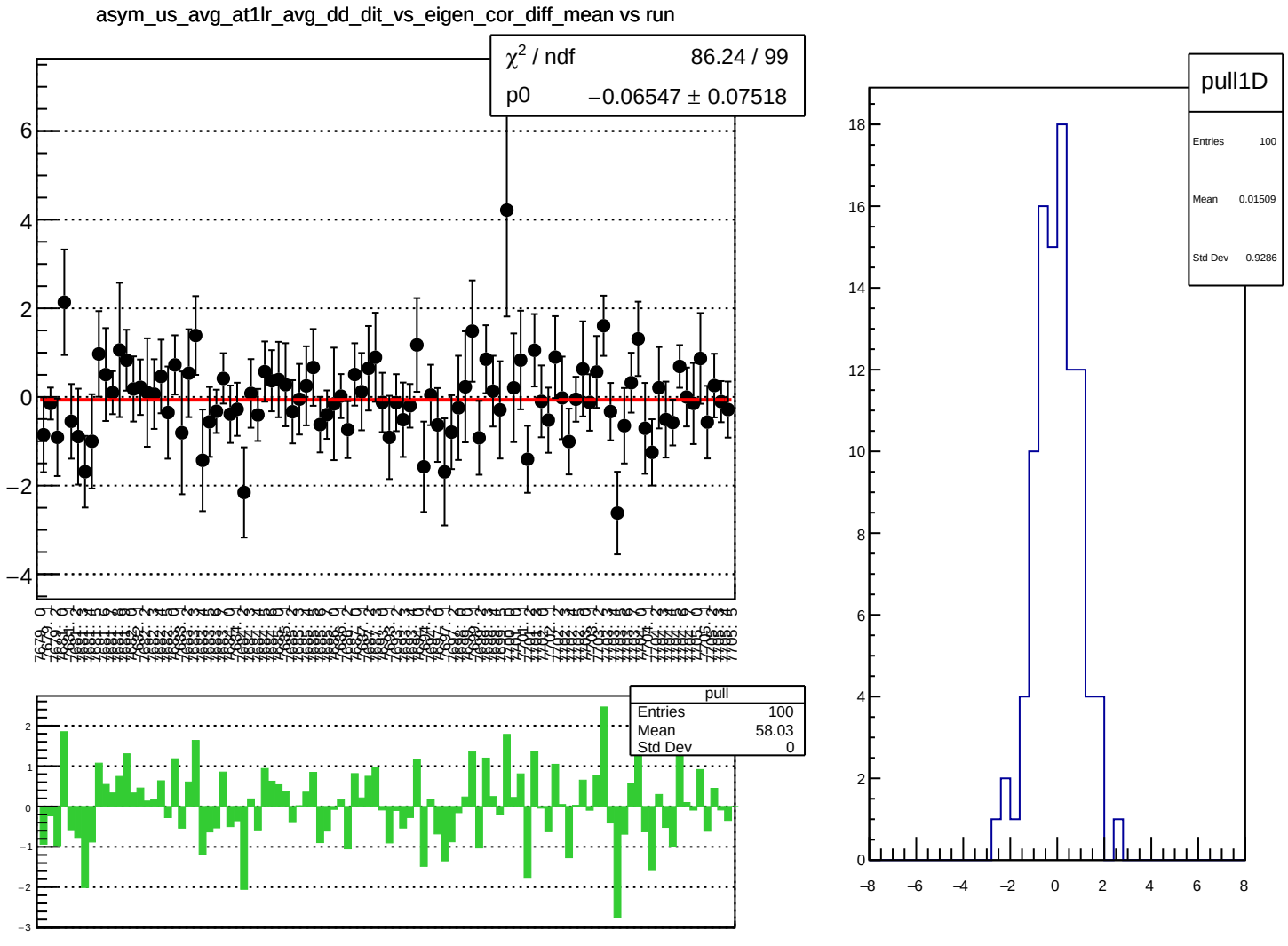

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 115.9 / 99
p0 −2.647e−14 ± 3.185e−14
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 100
Mean 124.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.05692
Std Dev 1.075
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

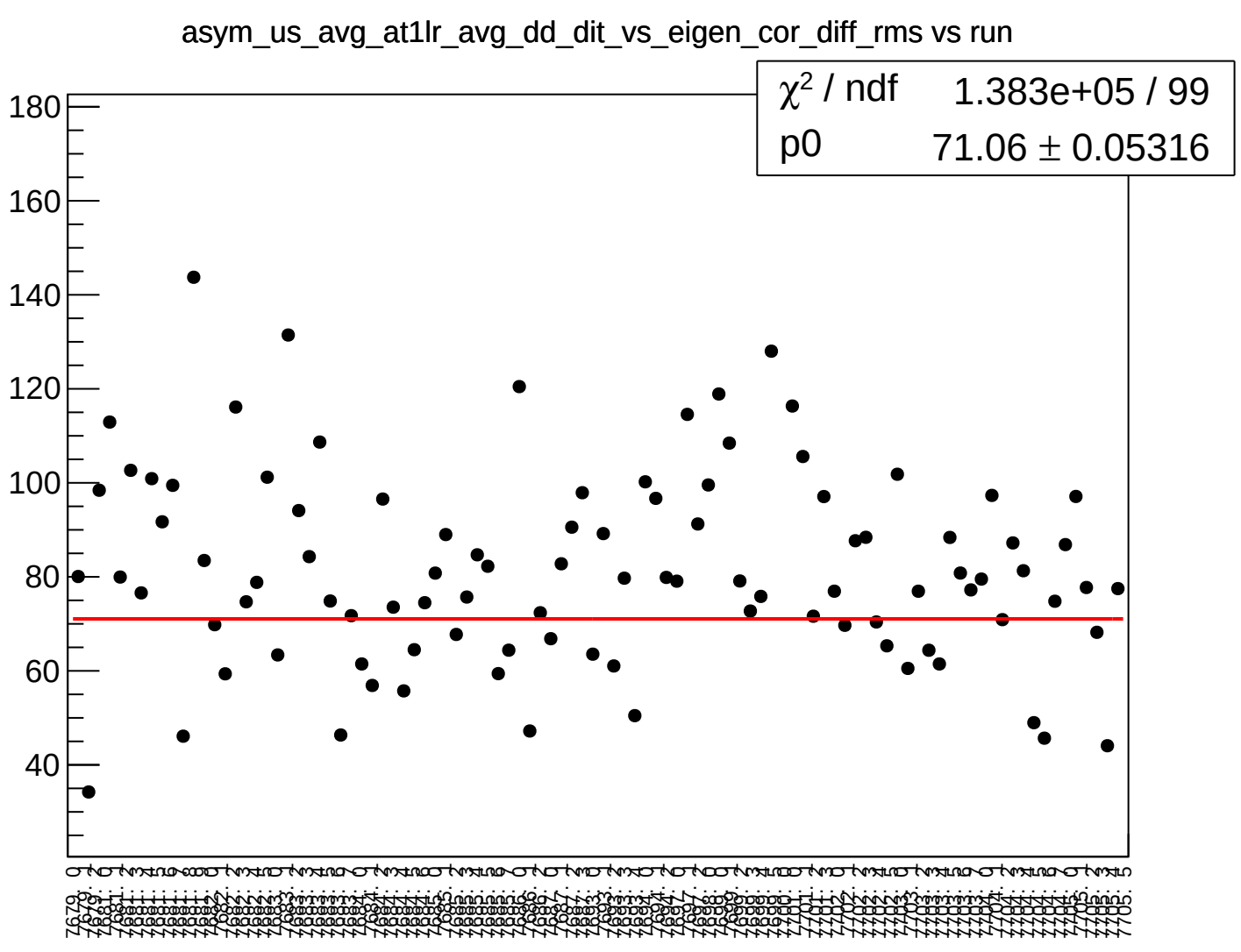

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.485e+06 / 99
p0 1.495e−11 ± 2.252e−14
1
0.8
0.6
0.4
0.2
0

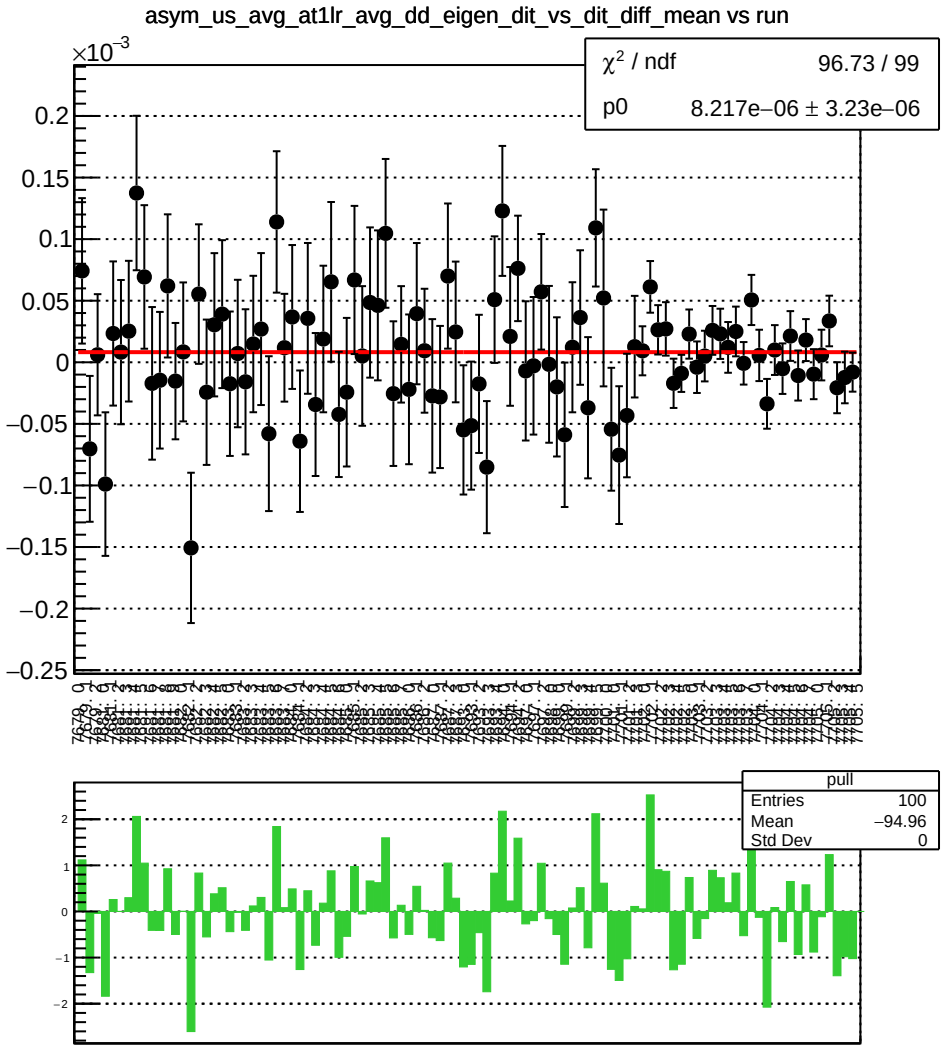

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.24 / 99
p0 −0.06547 ± 0.07518
pull
Entries 100
Mean 58.03
Std Dev 0

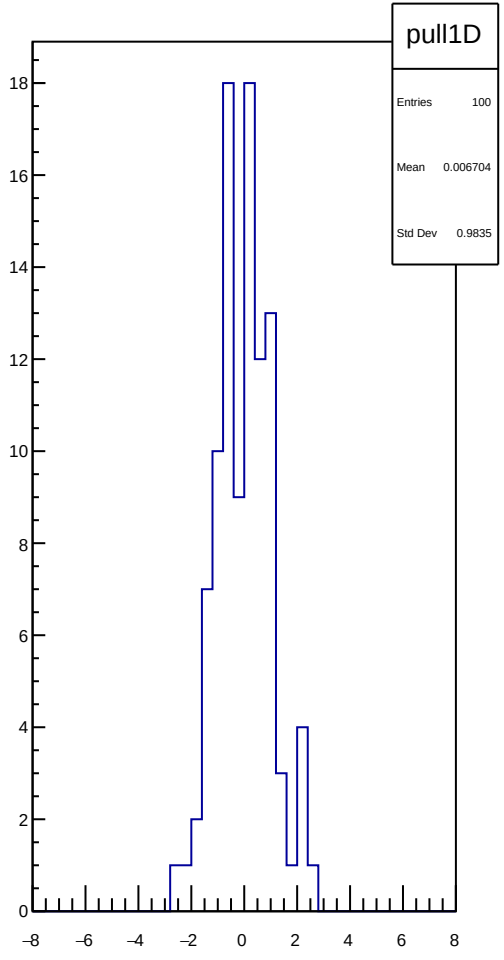

pull1D
Entries 100
Mean 0.01509
Std Dev 0.9286

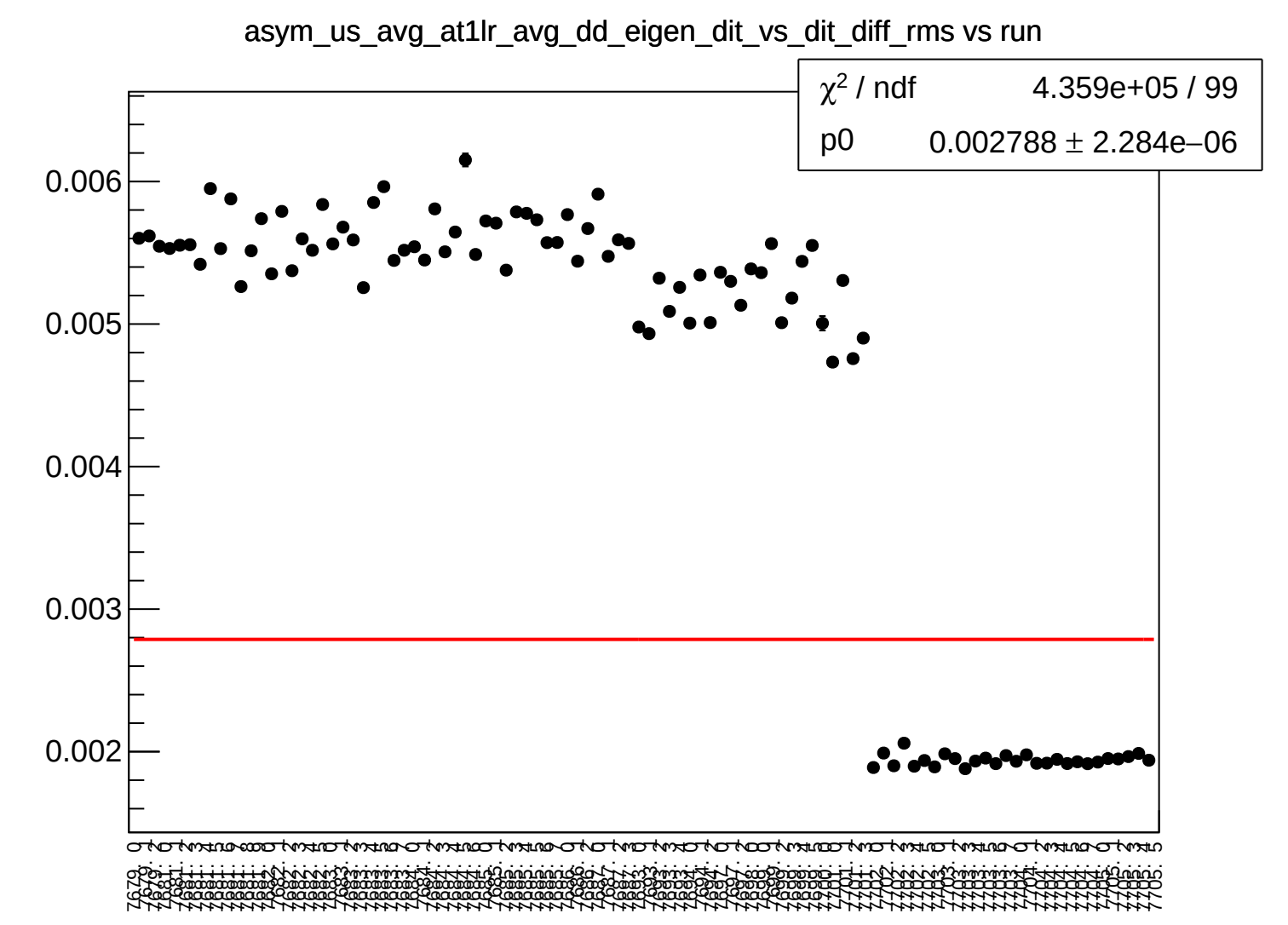

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.383e+05 / 99
p0 71.06 ± 0.05316
180
160
140
120
100
80
60
40

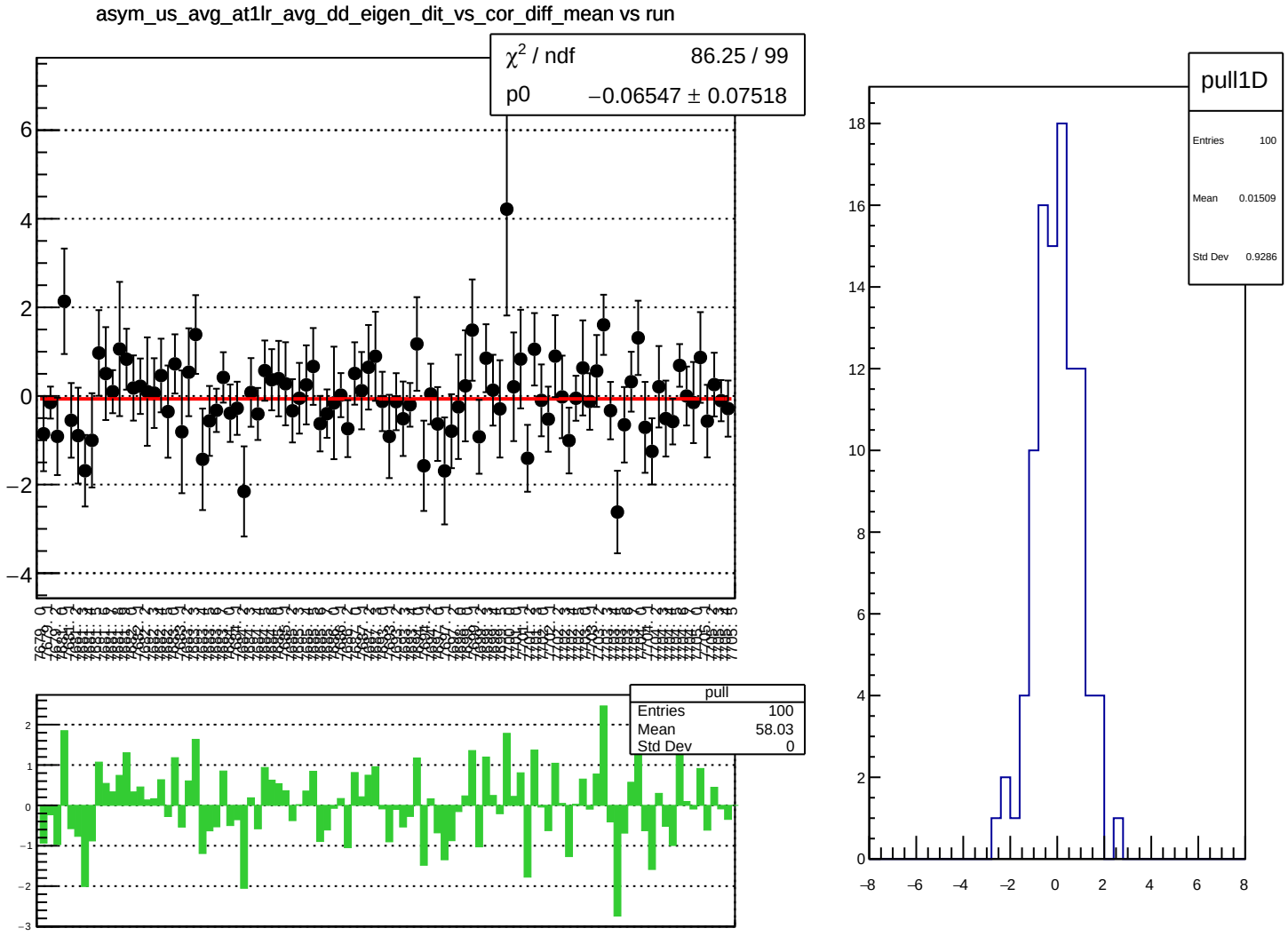

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.24 / 99
p0 −0.06547 ± 0.07518
pull
Entries 100
Mean 58.03
Std Dev 0
pull1D
Entries 100
Mean 0.01509
Std Dev 0.9286

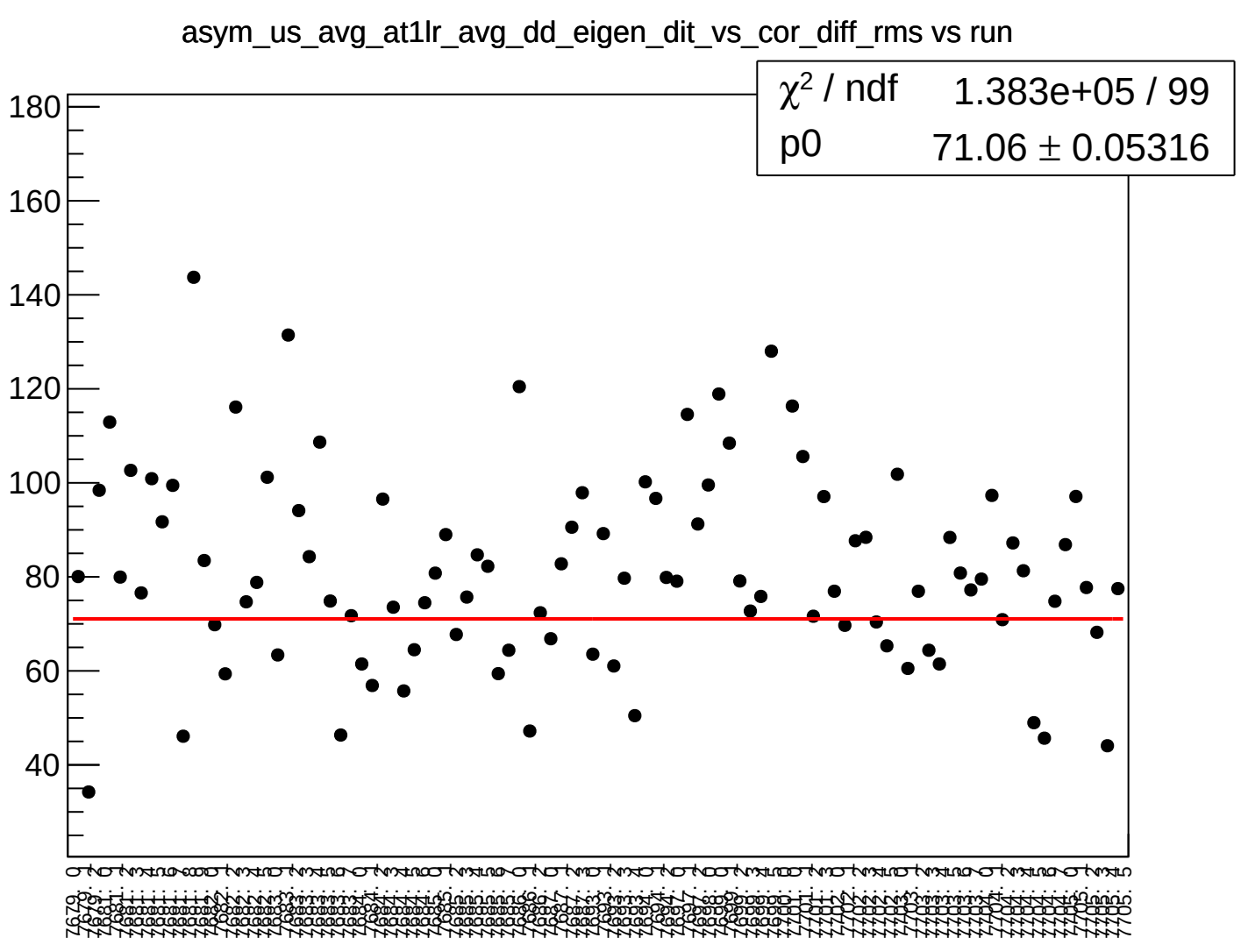

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.383e+05 / 99
p0 71.06 ± 0.05316
180
160
140
120
100
80
60
40

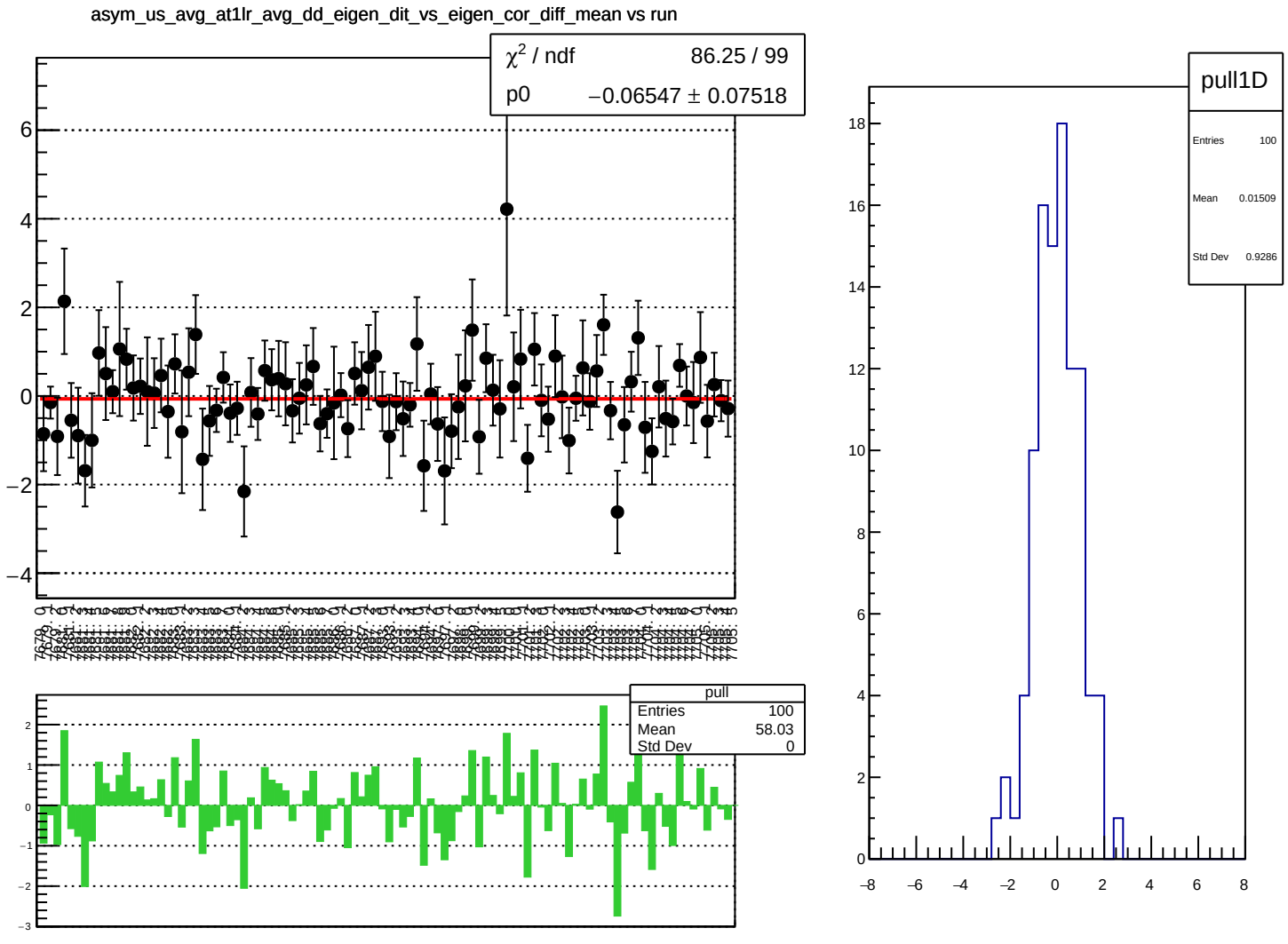

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.73 / 99
p0 8.217e−06 ± 3.23e−06
pull
Entries 100
Mean −94.96
Std Dev 0

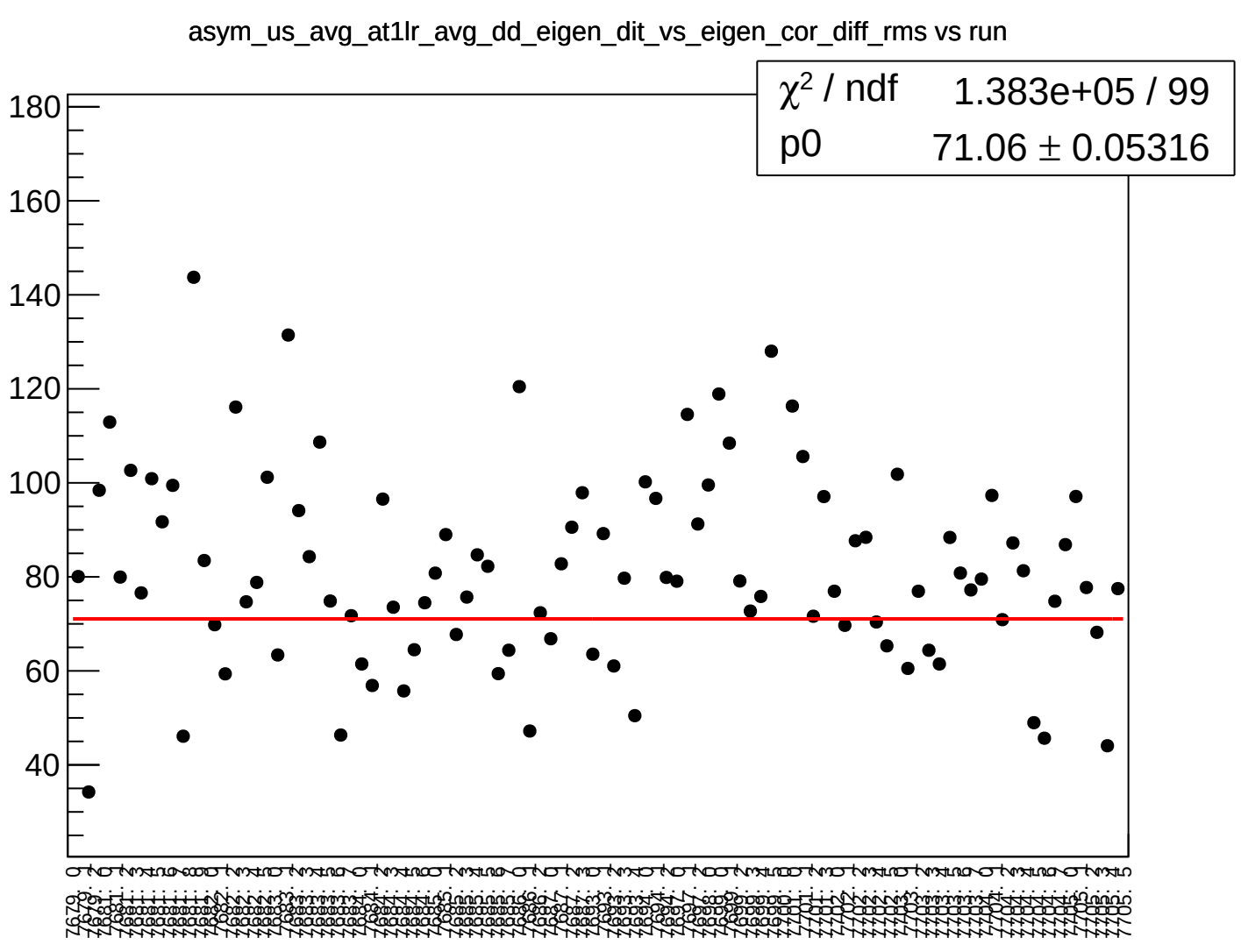

pull1D
Entries 100
Mean 0.006704
Std Dev 0.9835

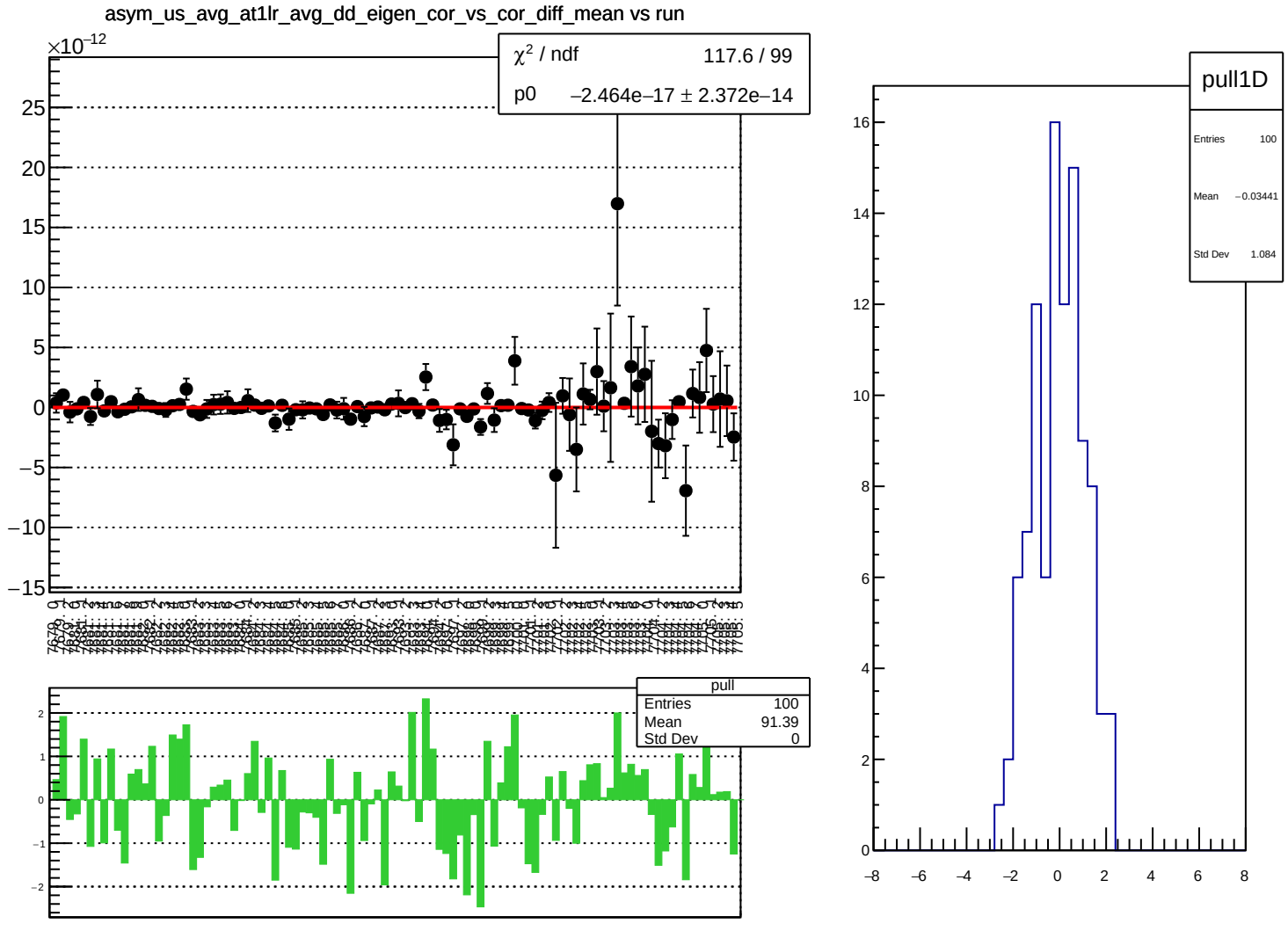

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ^2 / ndf 4.359e+05 / 99
p0 0.002788 ± 2.284e−06
0.006
0.005
0.004
0.003
0.002

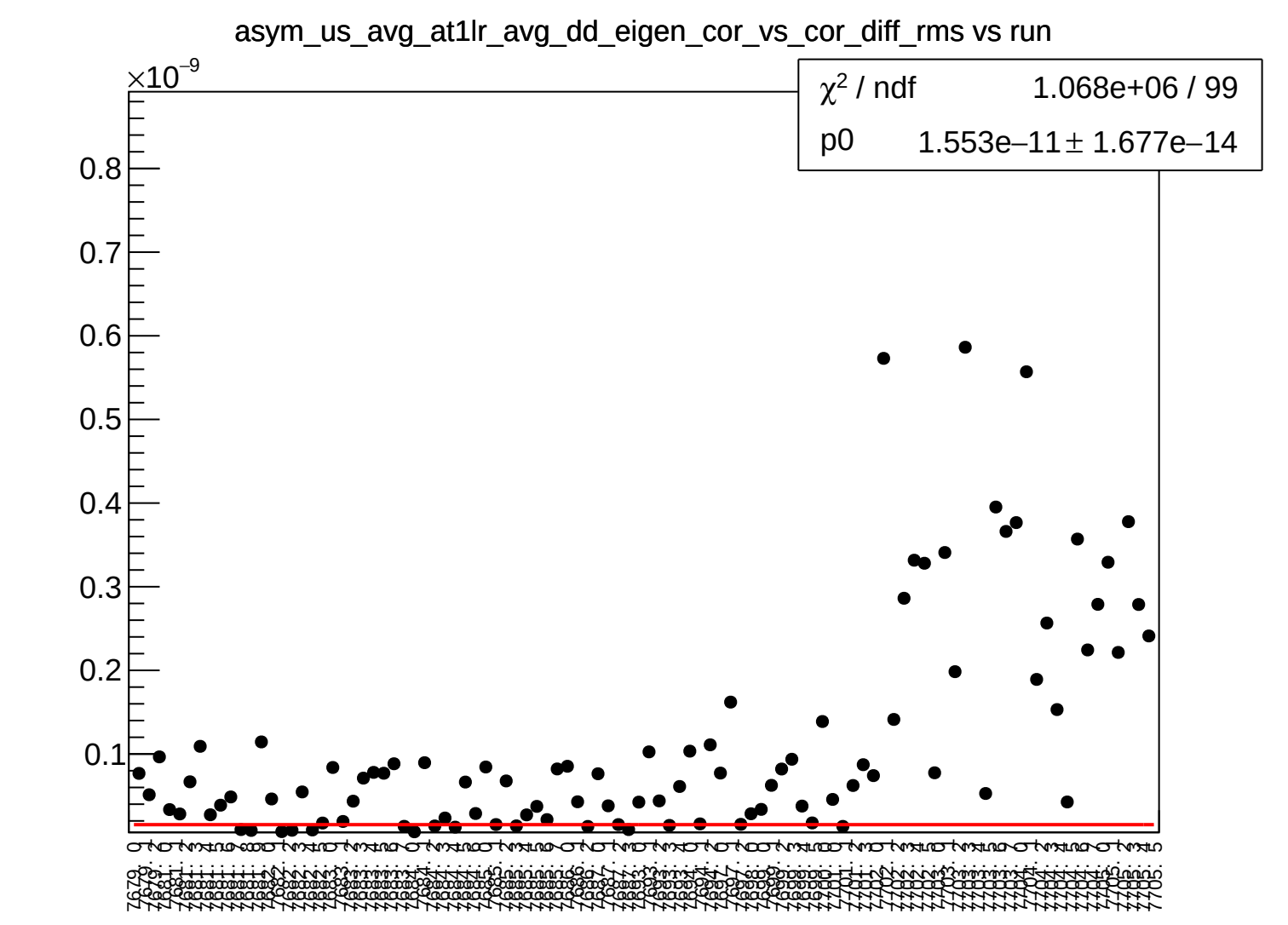

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.25 / 99
p0 −0.06547 ± 0.07518
pull
Entries 100
Mean 58.03
Std Dev 0
pull1D
Entries 100
Mean 0.01509
Std Dev 0.9286

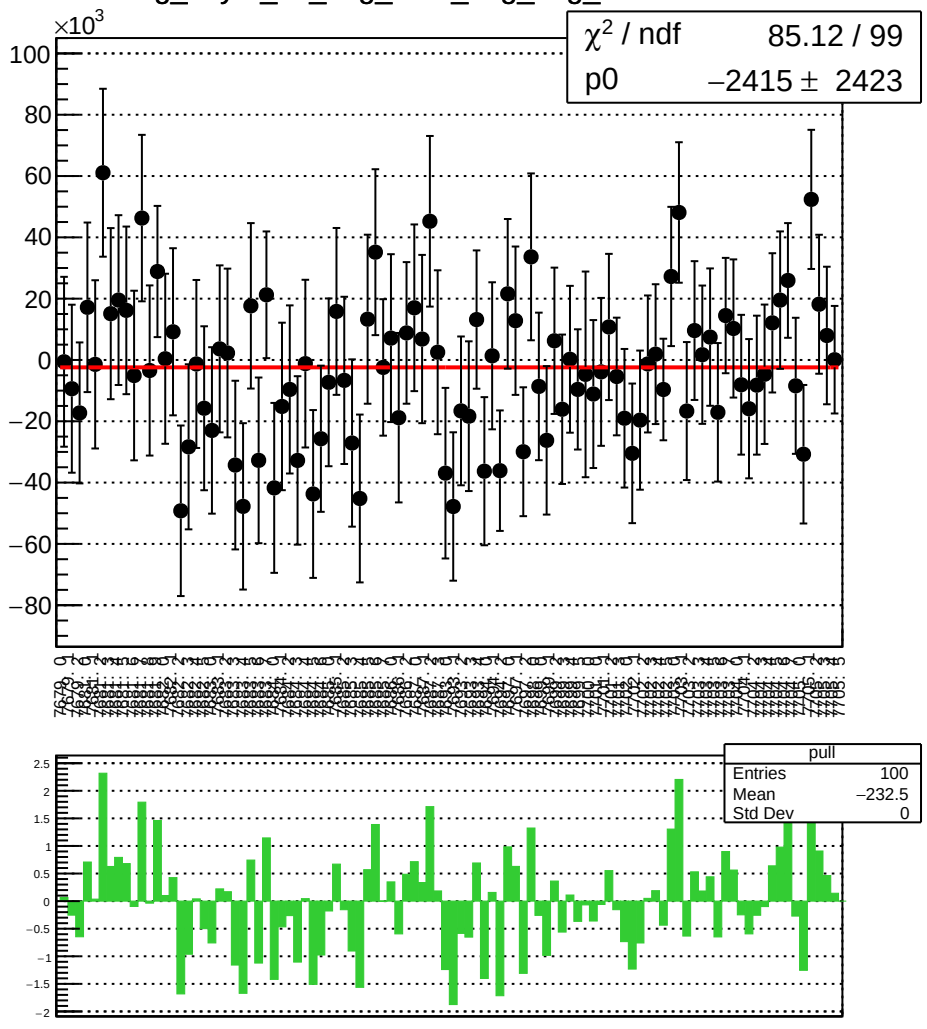

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.383e+05 / 99
p0 71.06 ± 0.05316
180
160
140
120
100
80
60
40

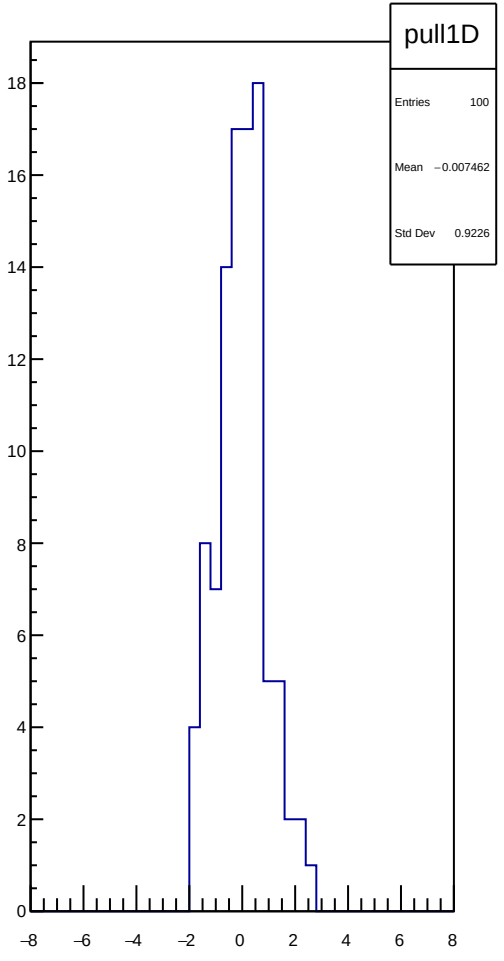

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.25 / 99
p0 −0.06547 ± 0.07518
pull
Entries 100
Mean 58.03
Std Dev 0
pull1D
Entries 100
Mean 0.01509
Std Dev 0.9286

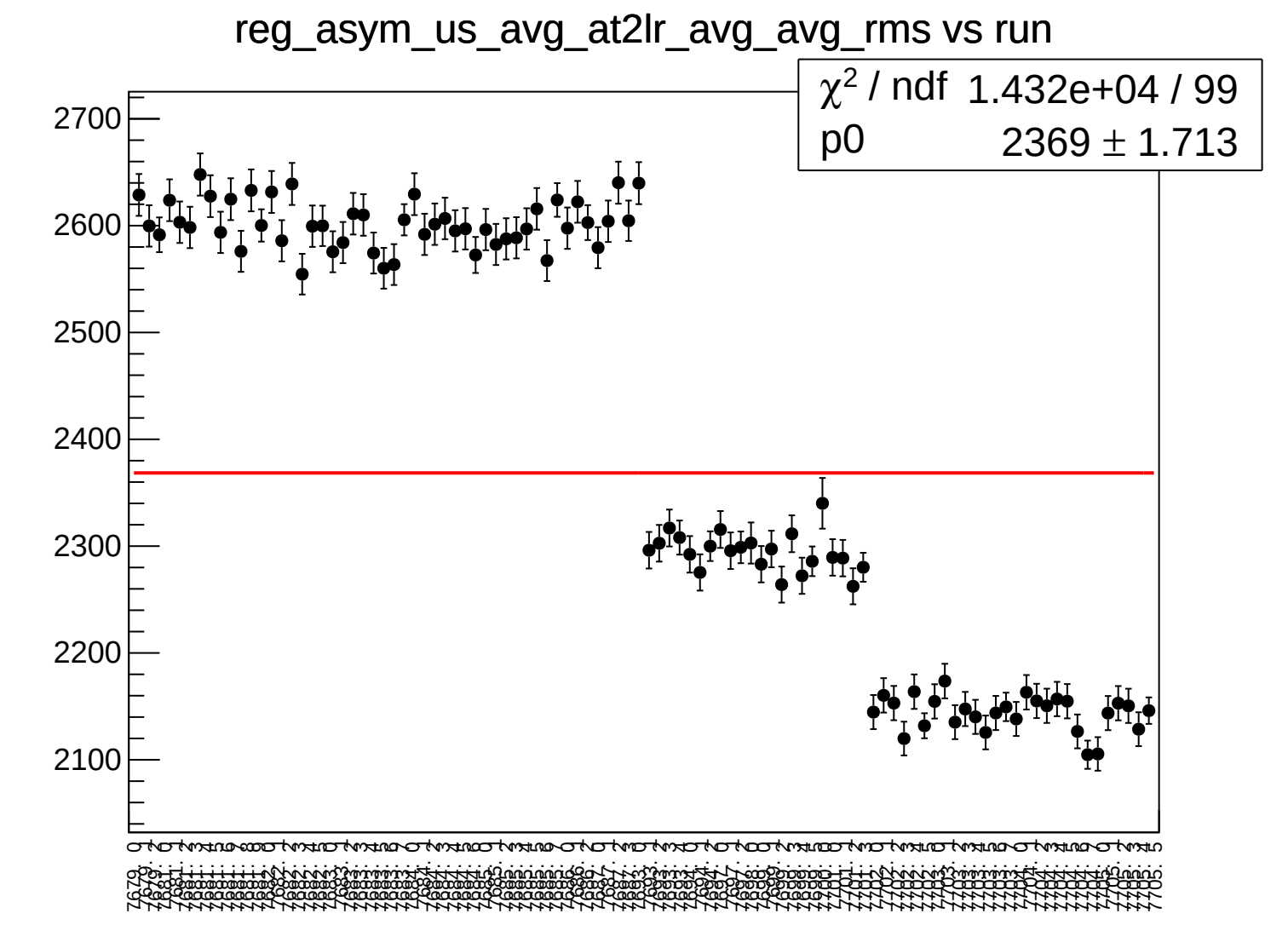

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.383e+05 / 99
p0 71.06 ± 0.05316
180
160
140
120
100
80
60
40

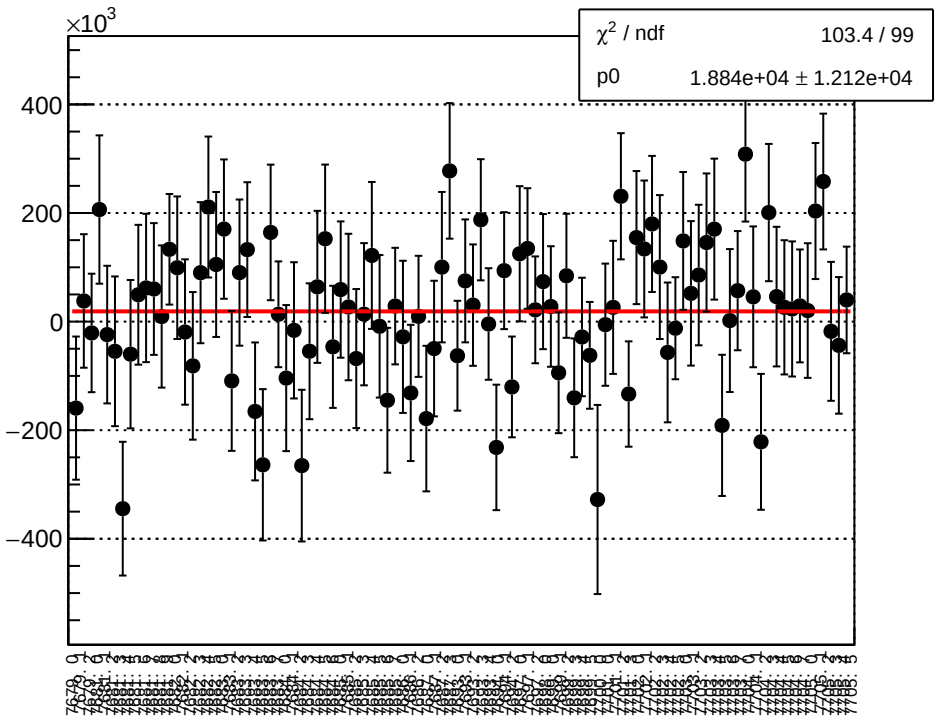

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 117.6 / 99
p0 −2.464e−17 ± 2.372e−14
pull
Entries 100
Mean 91.39
Std Dev 0
pull1D
Entries 100
Mean −0.03441
Std Dev 1.084

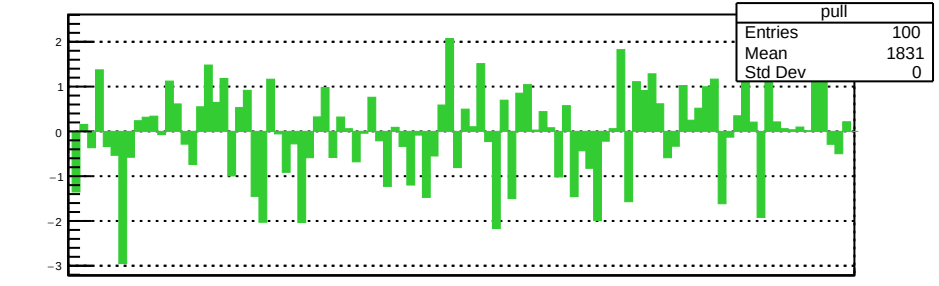

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.068e+06 / 99
p0 1.553e−11 ± 1.677e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

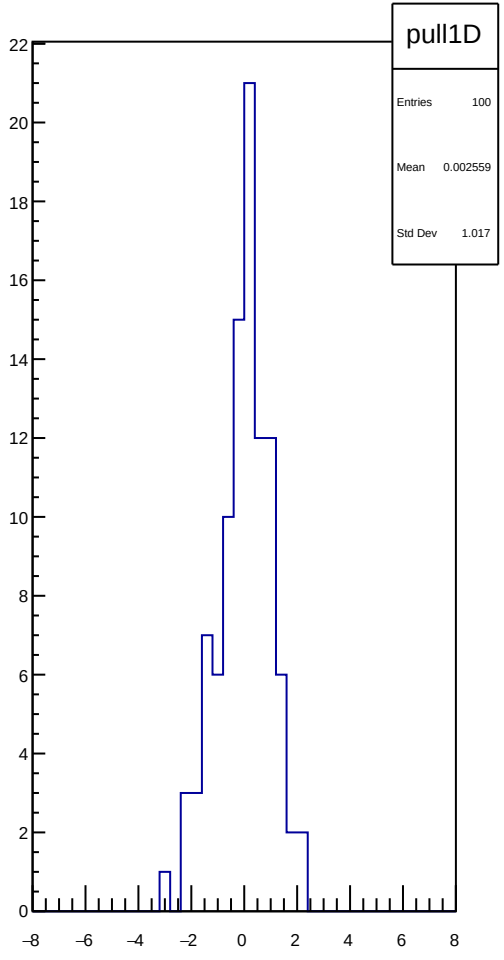

reg_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 85.12 / 99
p0 −2415 ± 2423
pull
Entries 100
Mean −232.5
Std Dev 0

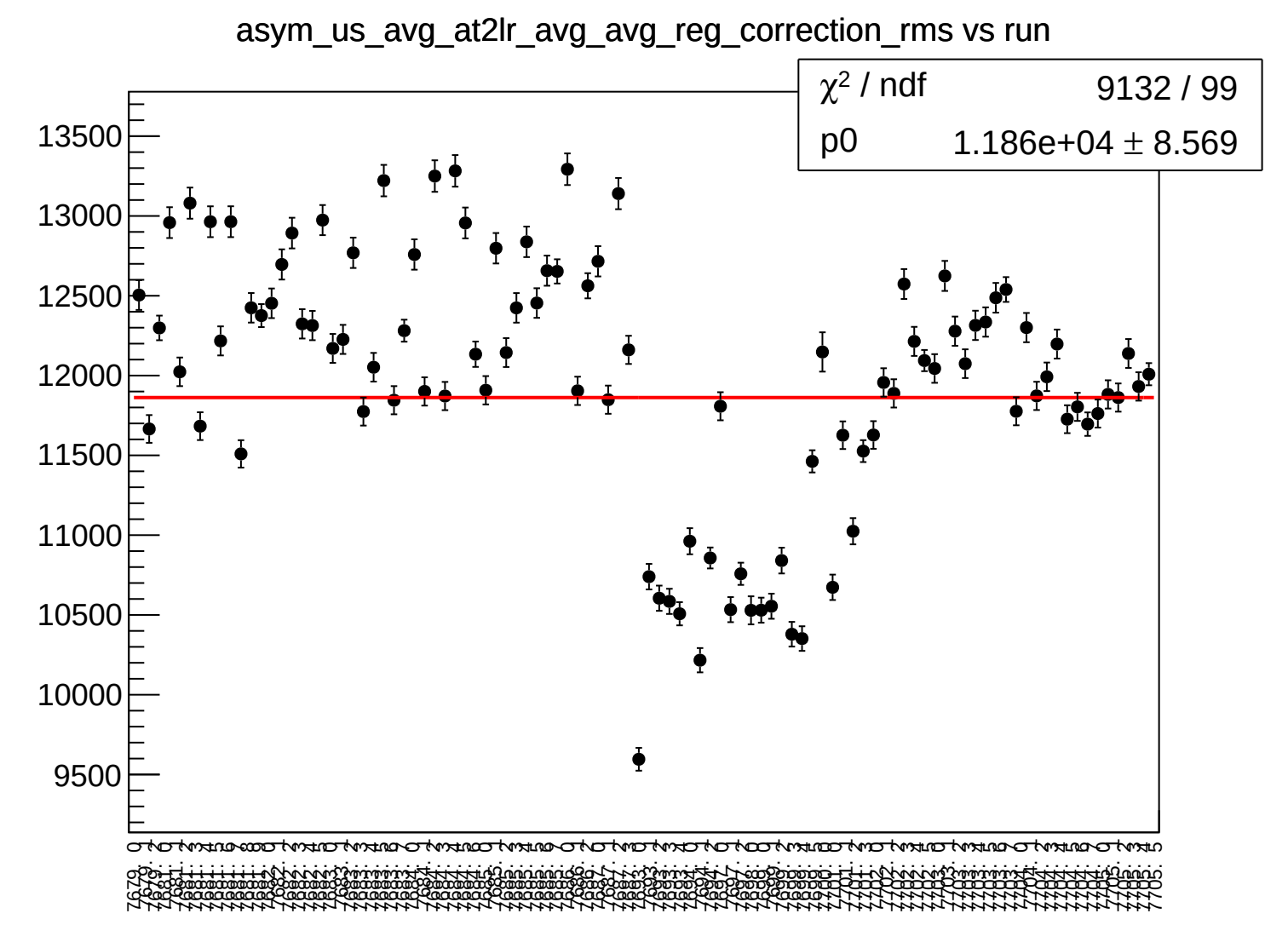

pull1D
Entries 100
Mean −0.007462
Std Dev 0.9226

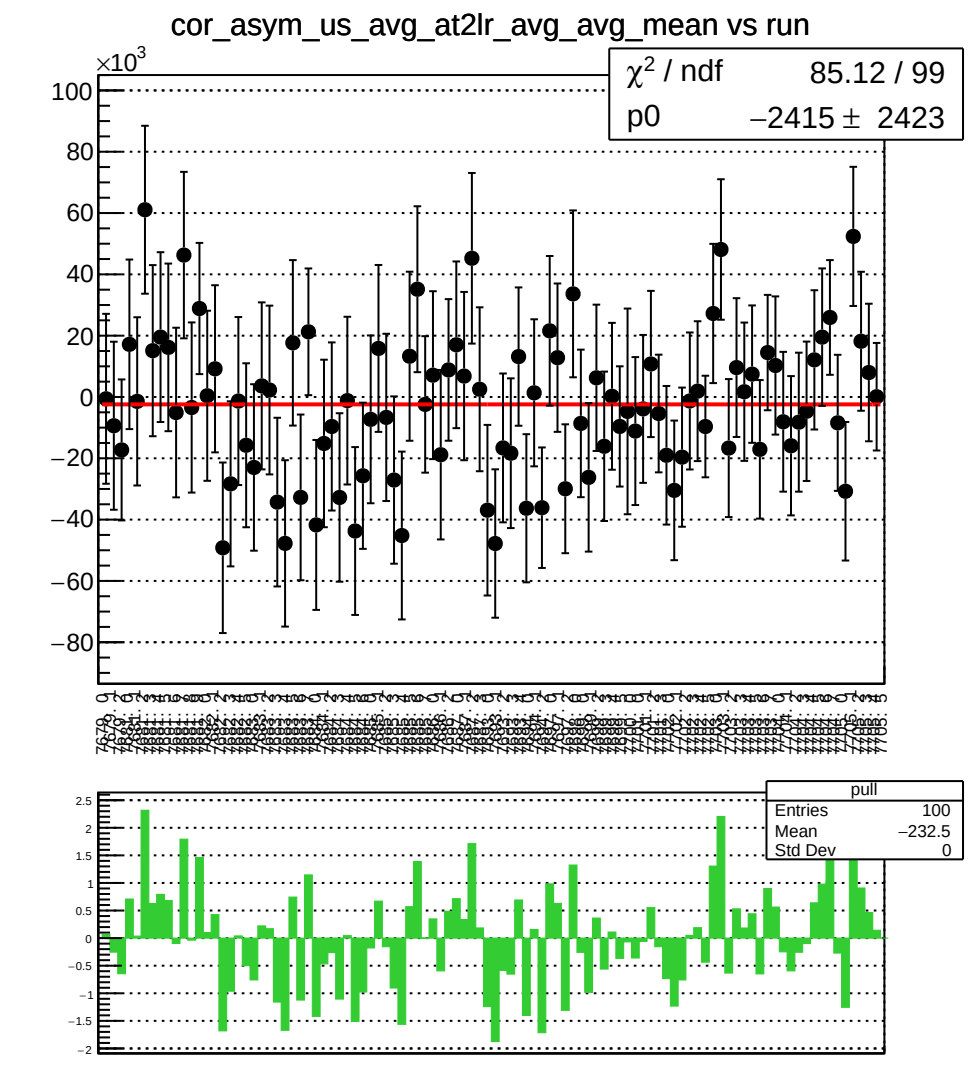

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1.432e+04 / 99
p0 2369 ± 1.713
2700
2600
2500
2400
2300
2200
2100

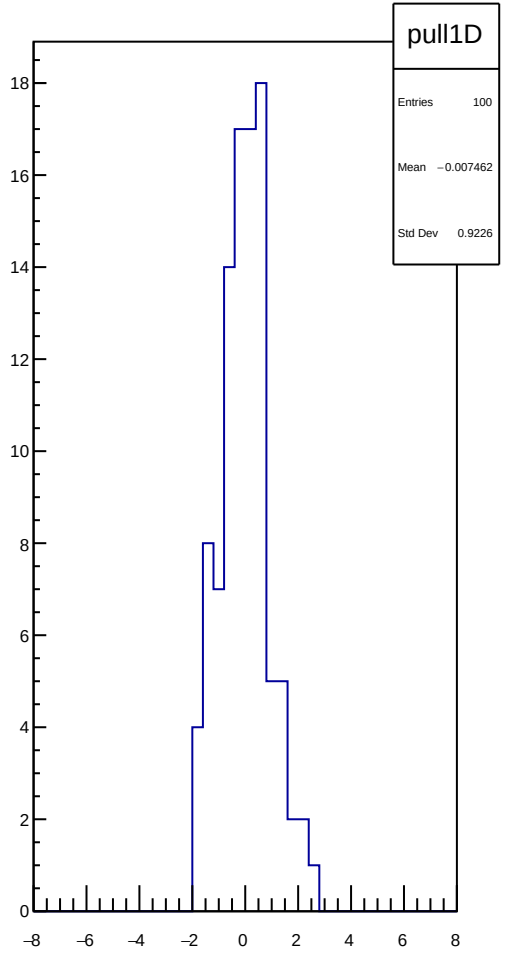

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 103.4 / 99
p0 1.884e+04 ± 1.212e+04
400
200
0
−200
−400

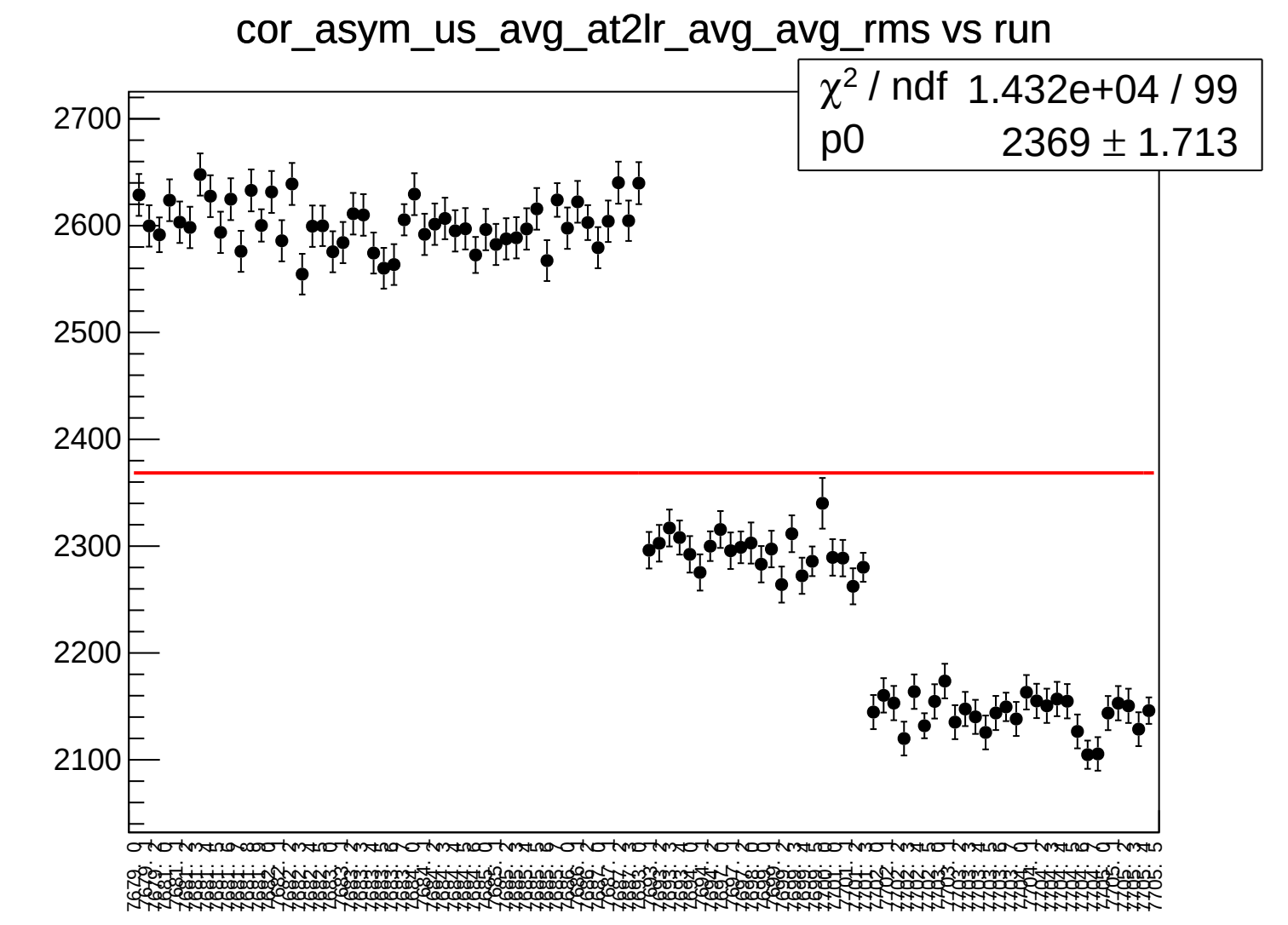

pull
Entries 100
Mean 1831
Std Dev 0
2
1
0
−1
−2
−3

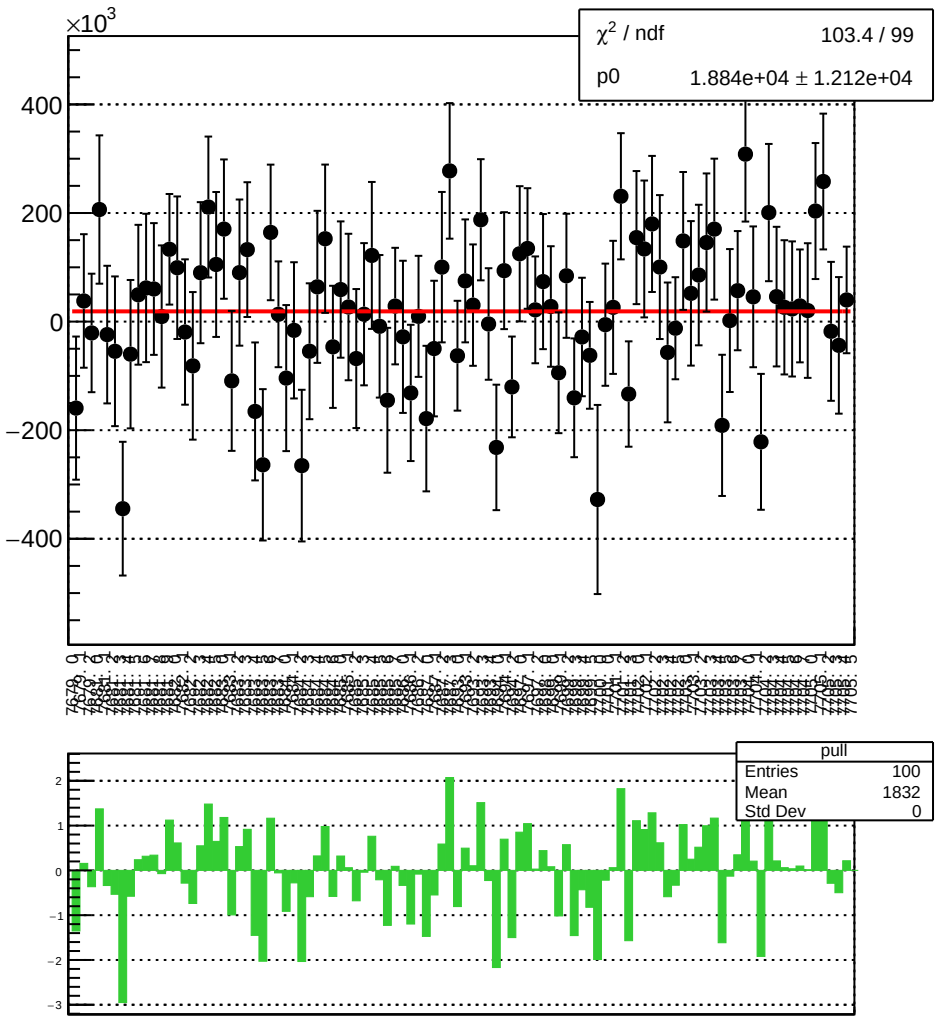

pull1D
Entries 100
Mean 0.002559
Std Dev 1.017
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

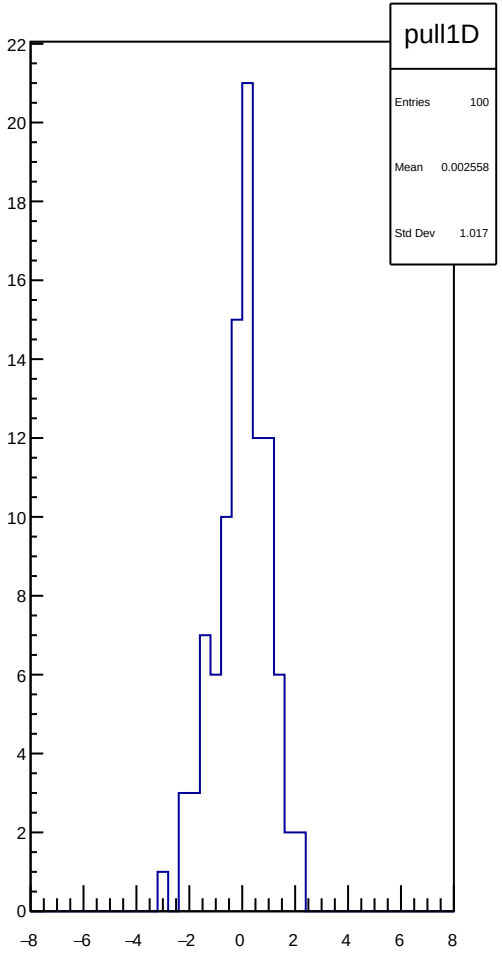

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 9132 / 99
p0 1.186e+04 ± 8.569
13500
13000
12500
12000
11500
11000
10500
10000
9500

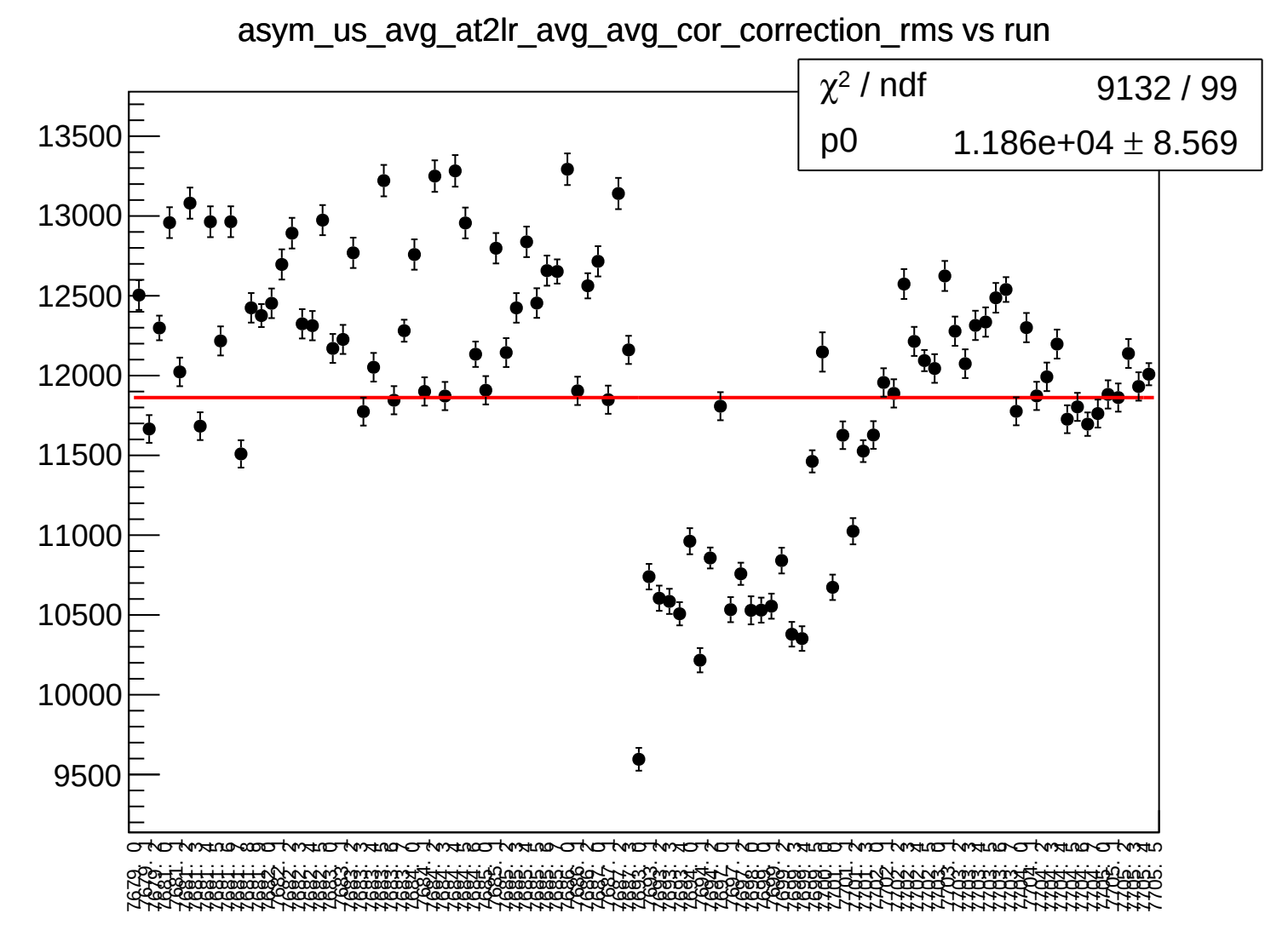

cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 85.12 / 99
p0 −2415 ± 2423
pull
Entries 100
Mean −232.5
Std Dev 0

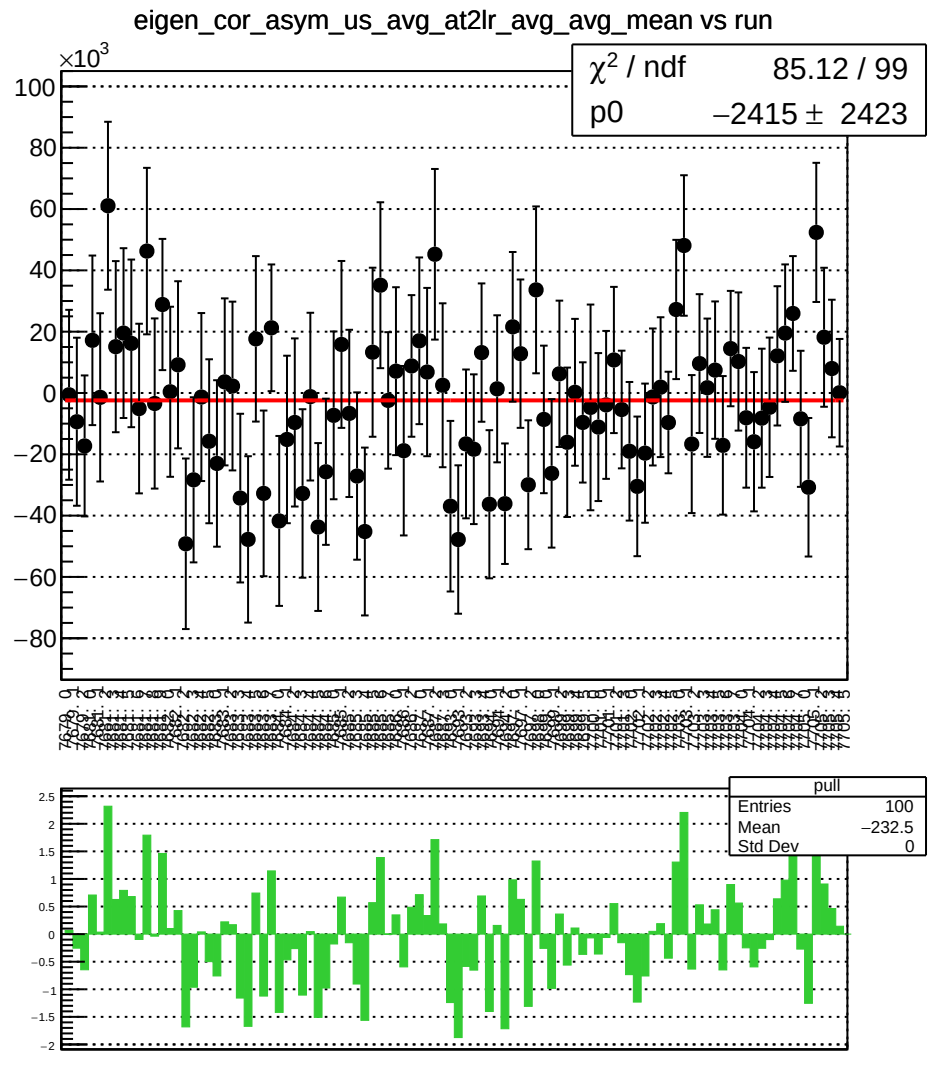

pull1D
Entries 100
Mean −0.007462
Std Dev 0.9226

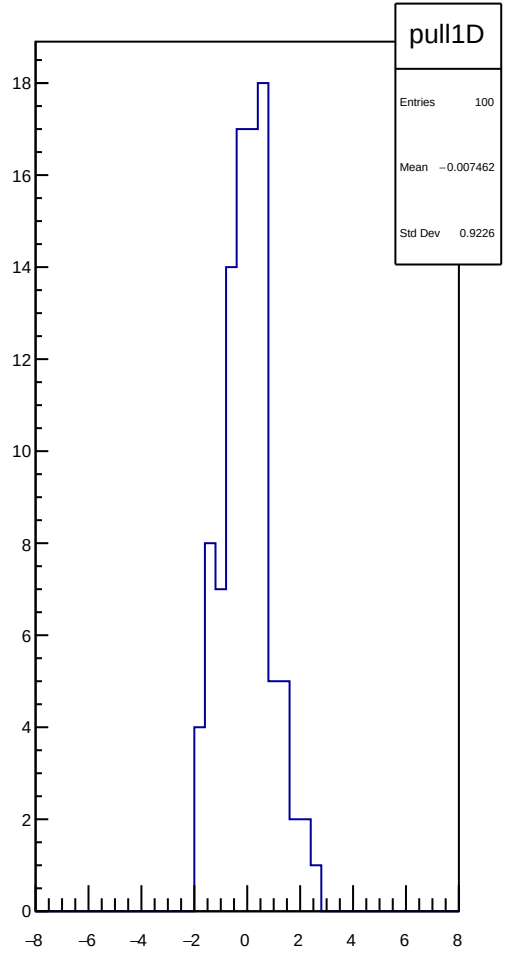

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1.432e+04 / 99
p0 2369 ± 1.713
2700
2600
2500
2400
2300
2200
2100

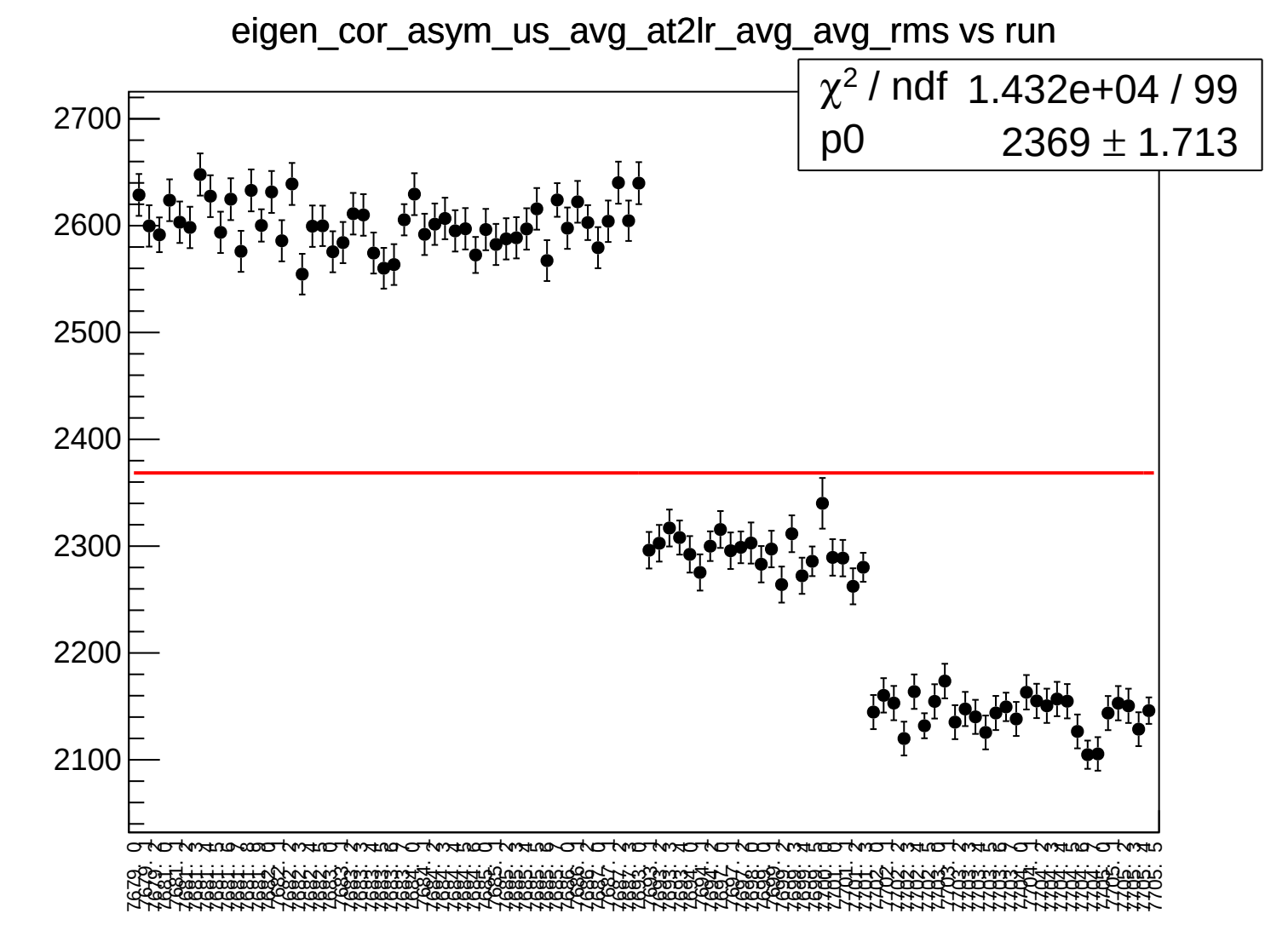

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 103.4 / 99
p0 1.884e+04 ± 1.212e+04
400
200
0
−200
−400
pull
Entries 100
Mean 1832
Std Dev 0
2
1
0
−1
−2
−3

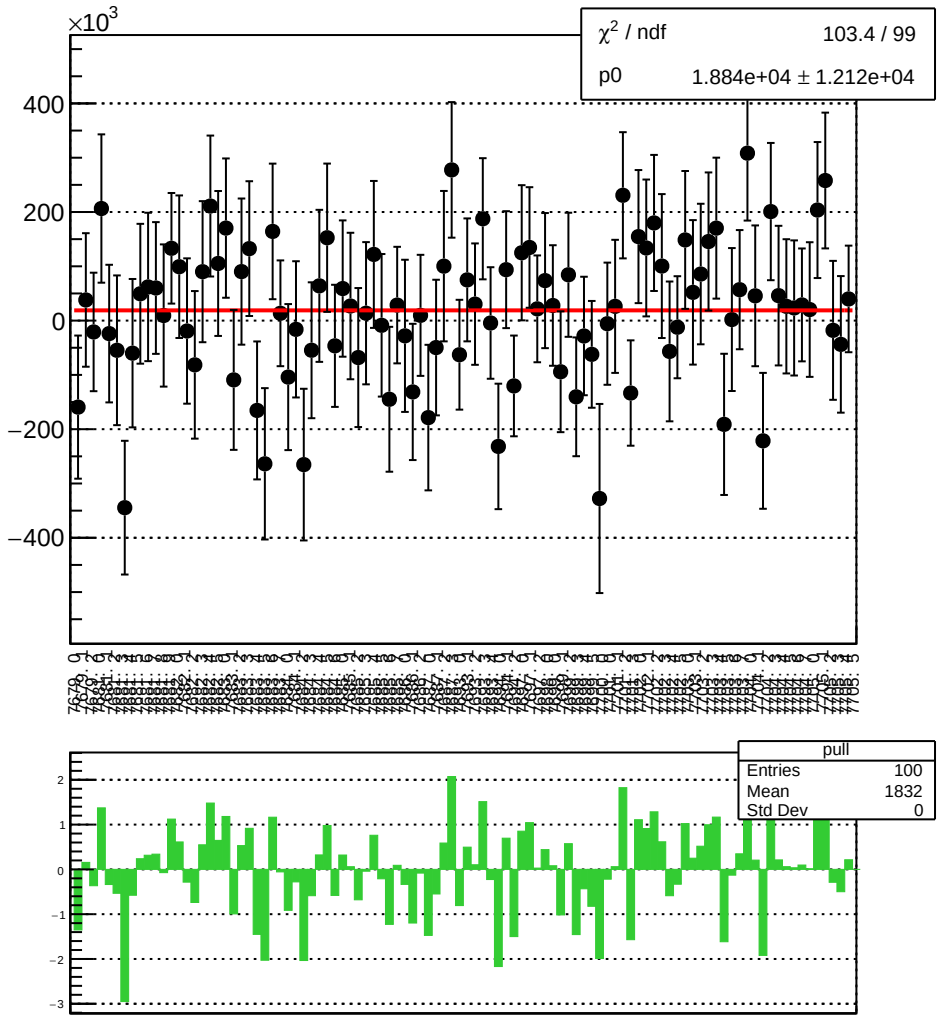

pull1D
Entries 100
Mean 0.002558
Std Dev 1.017
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

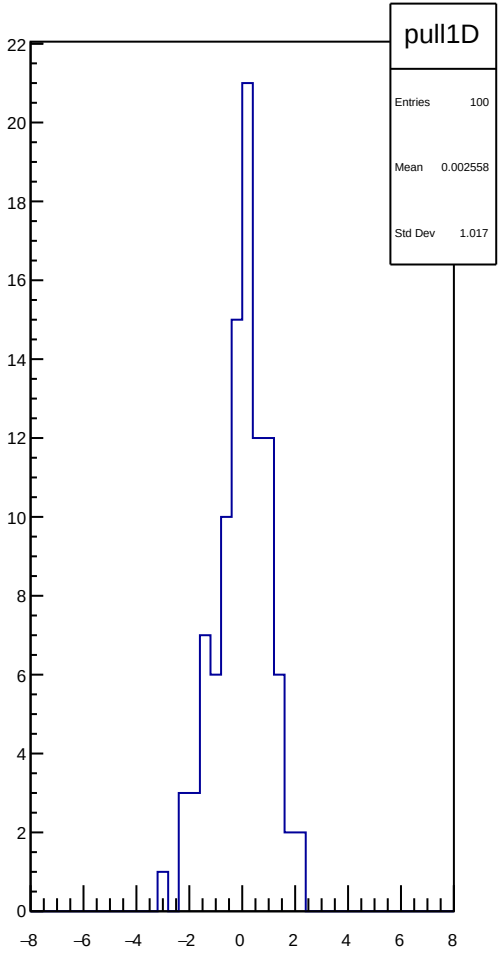

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 9132 / 99
p0 1.186e+04 ± 8.569
13500
13000
12500
12000
11500
11000
10500
10000
9500

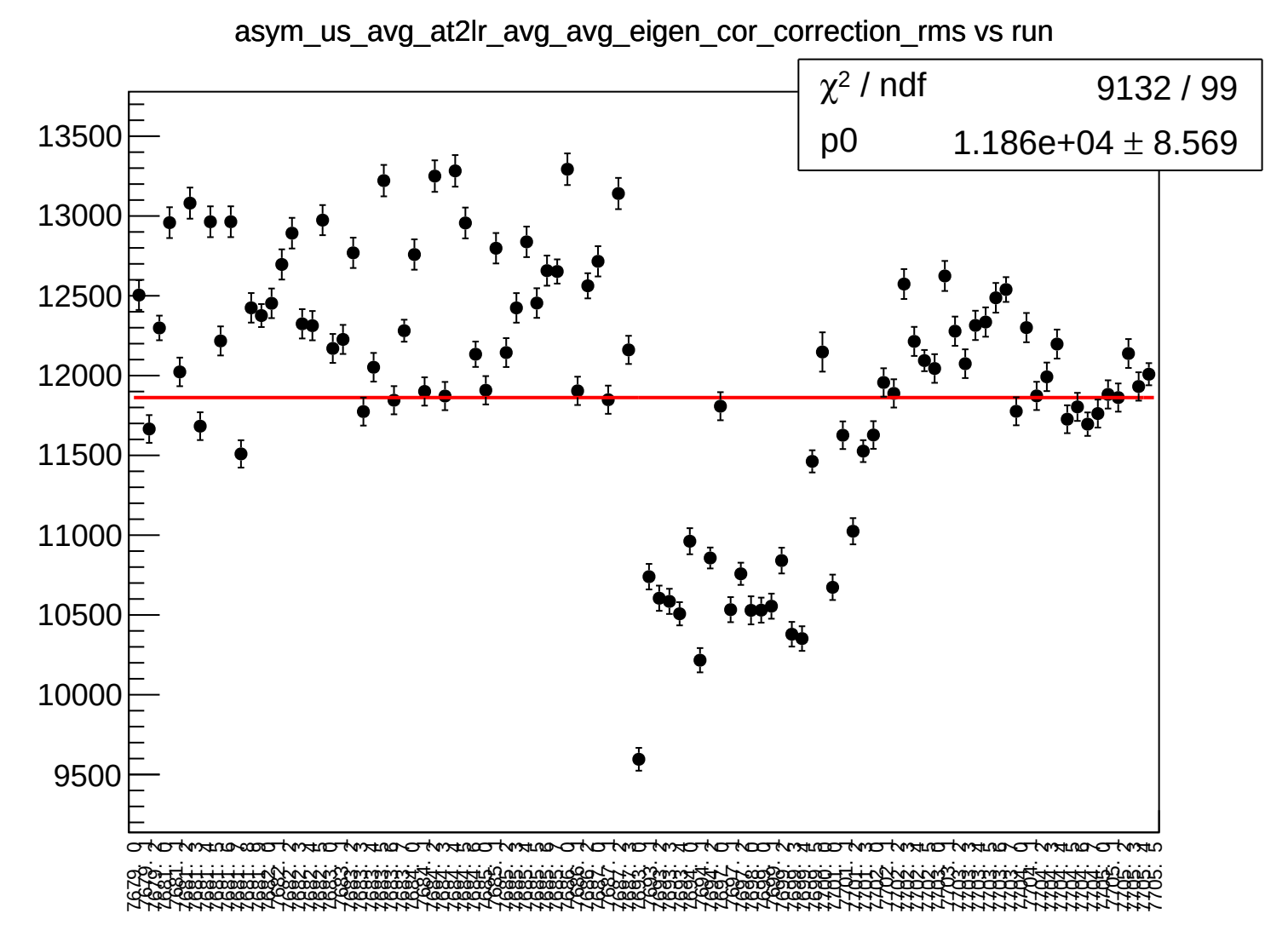

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 85.12 / 99
p0 −2415 ± 2423
pull
Entries 100
Mean −232.5
Std Dev 0

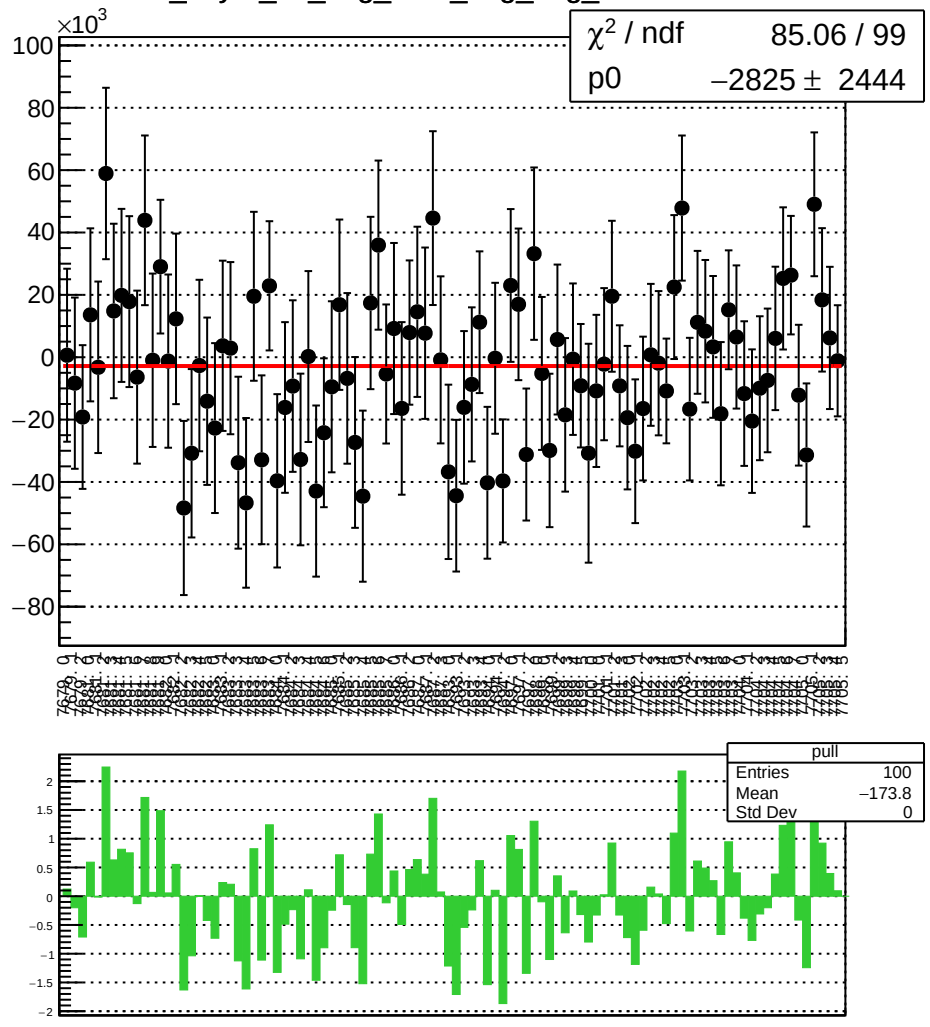

pull1D
Entries 100
Mean −0.007462
Std Dev 0.9226

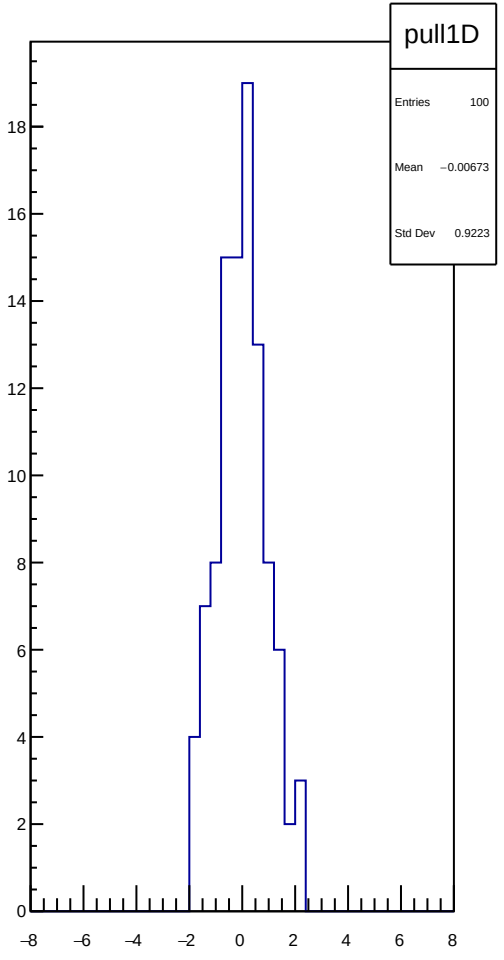

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1.432e+04 / 99
p0 2369 ± 1.713
2700
2600
2500
2400
2300
2200
2100

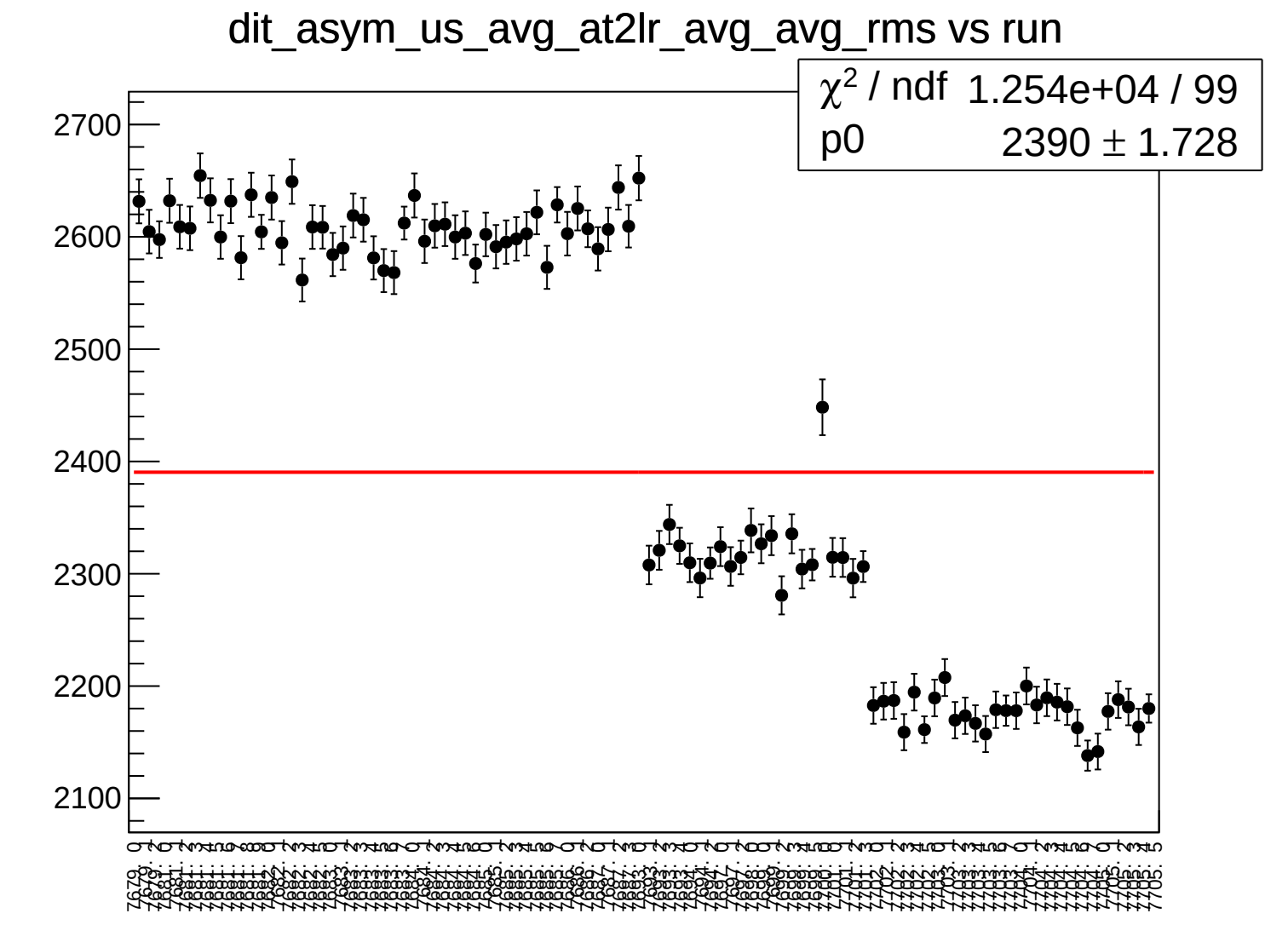

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 103.4 / 99
p0 1.884e+04 ± 1.212e+04
400
200
0
−200
−400
pull
Entries 100
Mean 1832
Std Dev 0
2
1
0
−1
−2
−3

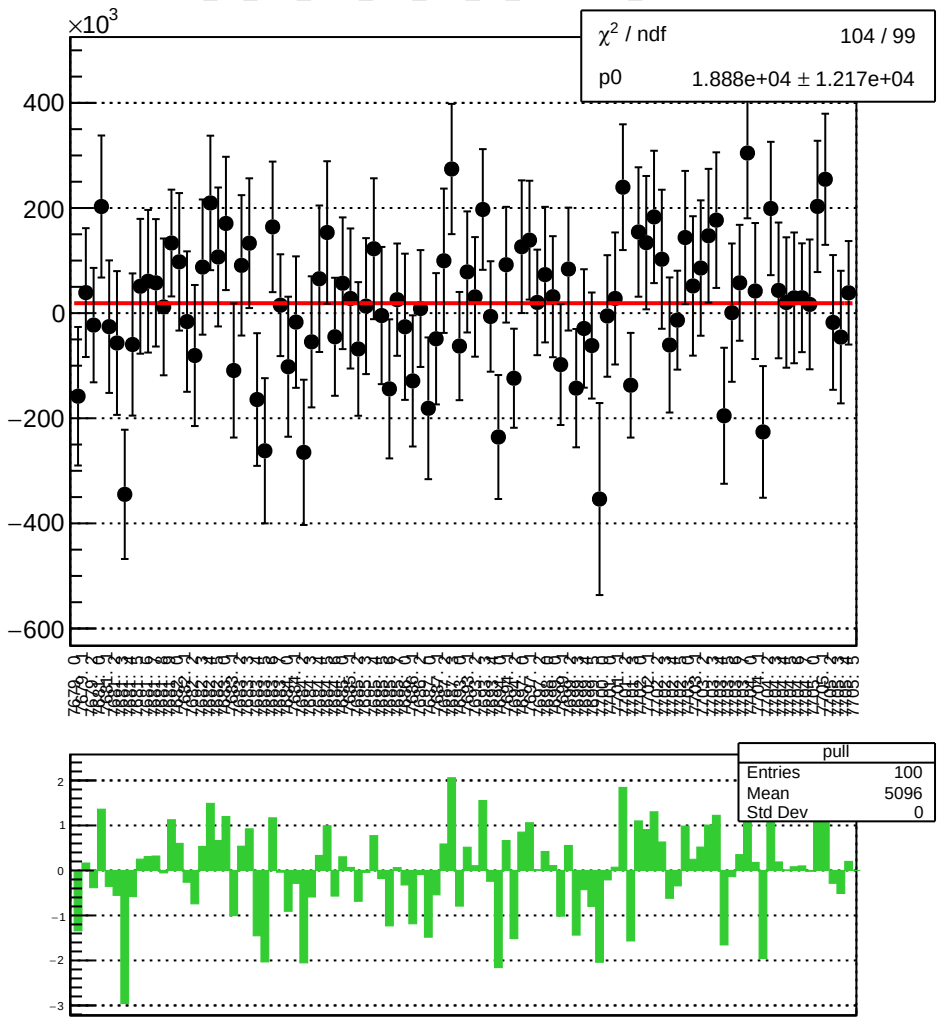

pull1D
Entries 100
Mean 0.002558
Std Dev 1.017
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

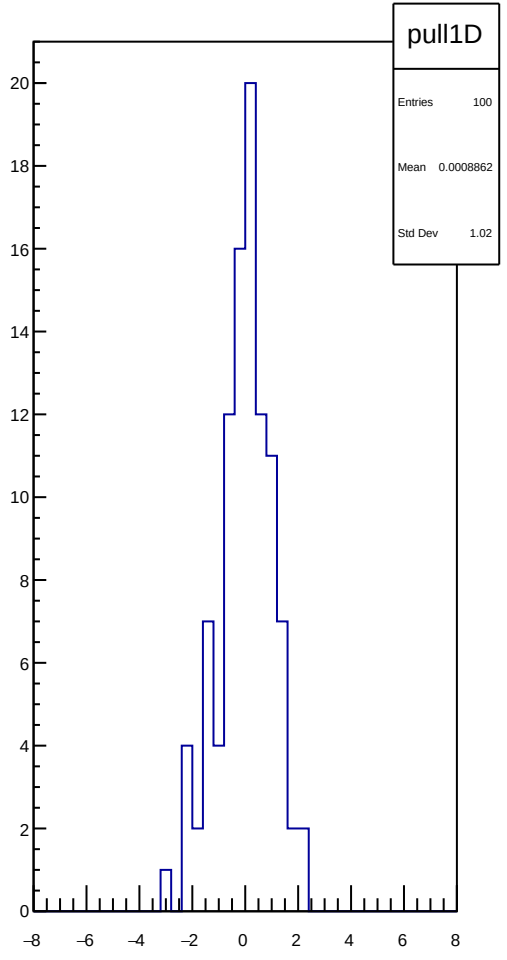

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 9132 / 99
p0 1.186e+04 ± 8.569
13500
13000
12500
12000
11500
11000
10500
10000
9500

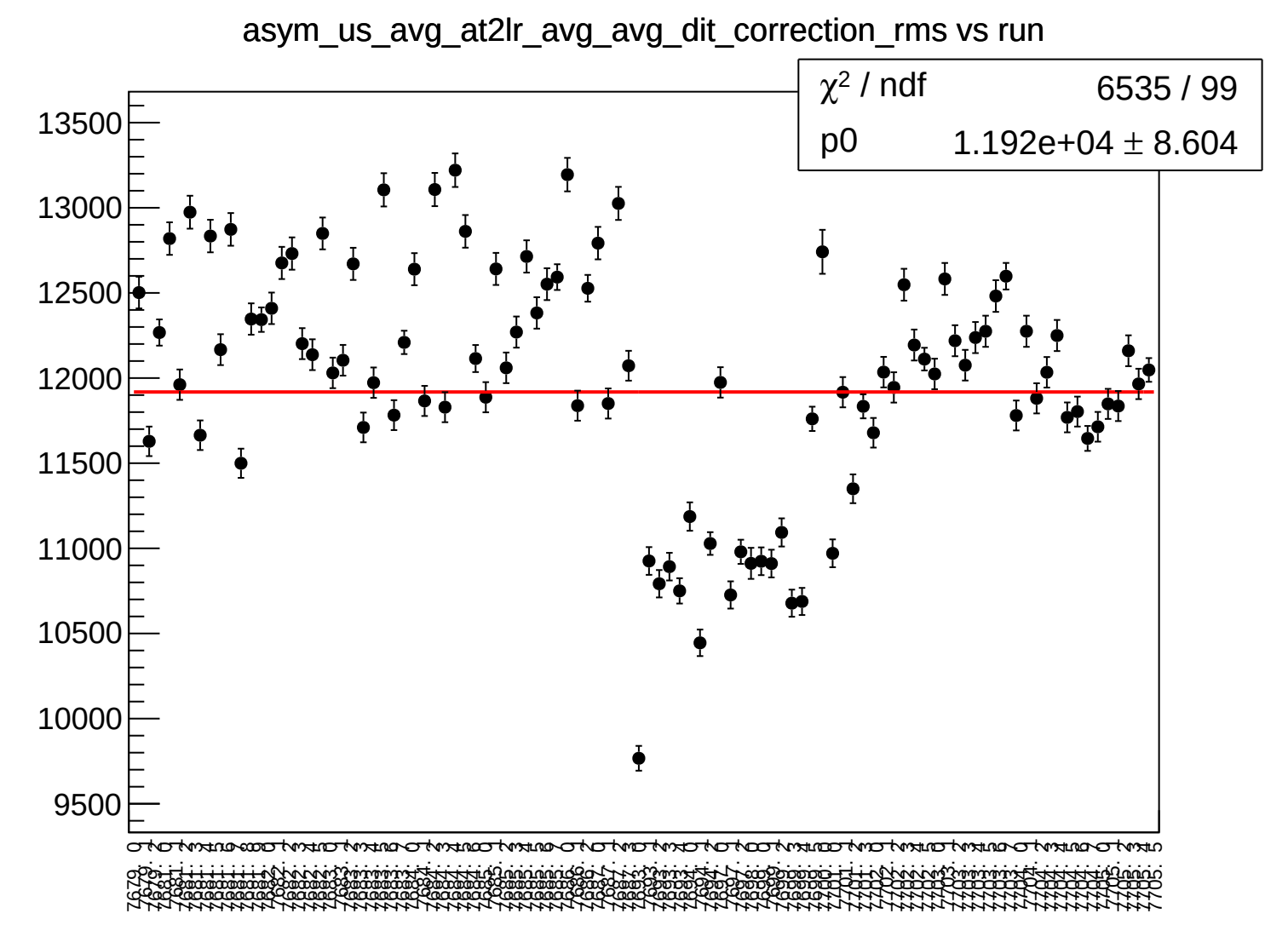

dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 85.06 / 99
p0 −2825 ± 2444
pull
Entries 100
Mean −173.8
Std Dev 0

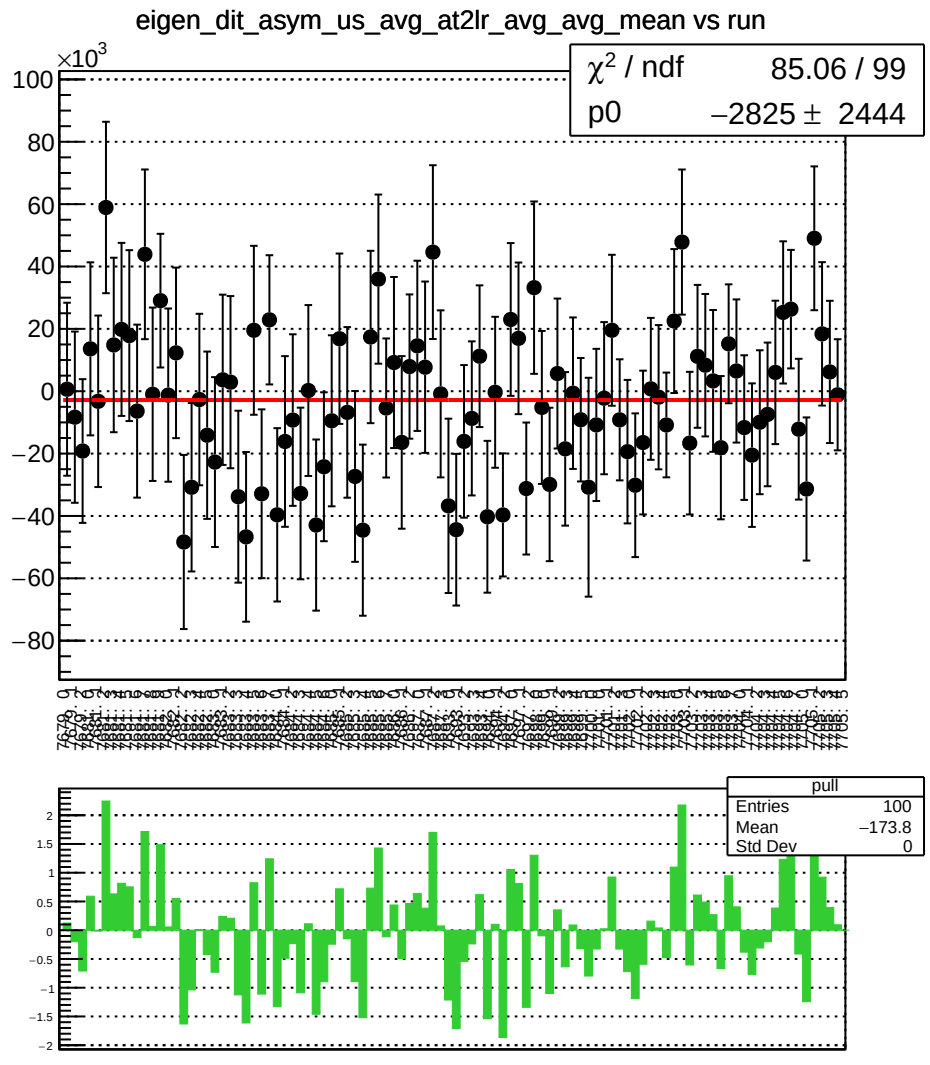

pull1D
Entries 100
Mean −0.00673
Std Dev 0.9223

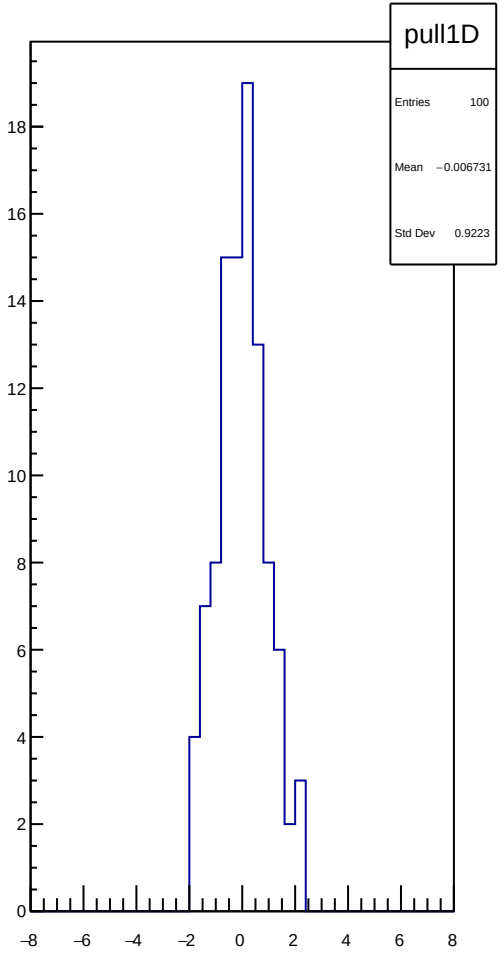

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1.254e+04 / 99
p0 2390 ± 1.728
2700
2600
2500
2400
2300
2200
2100

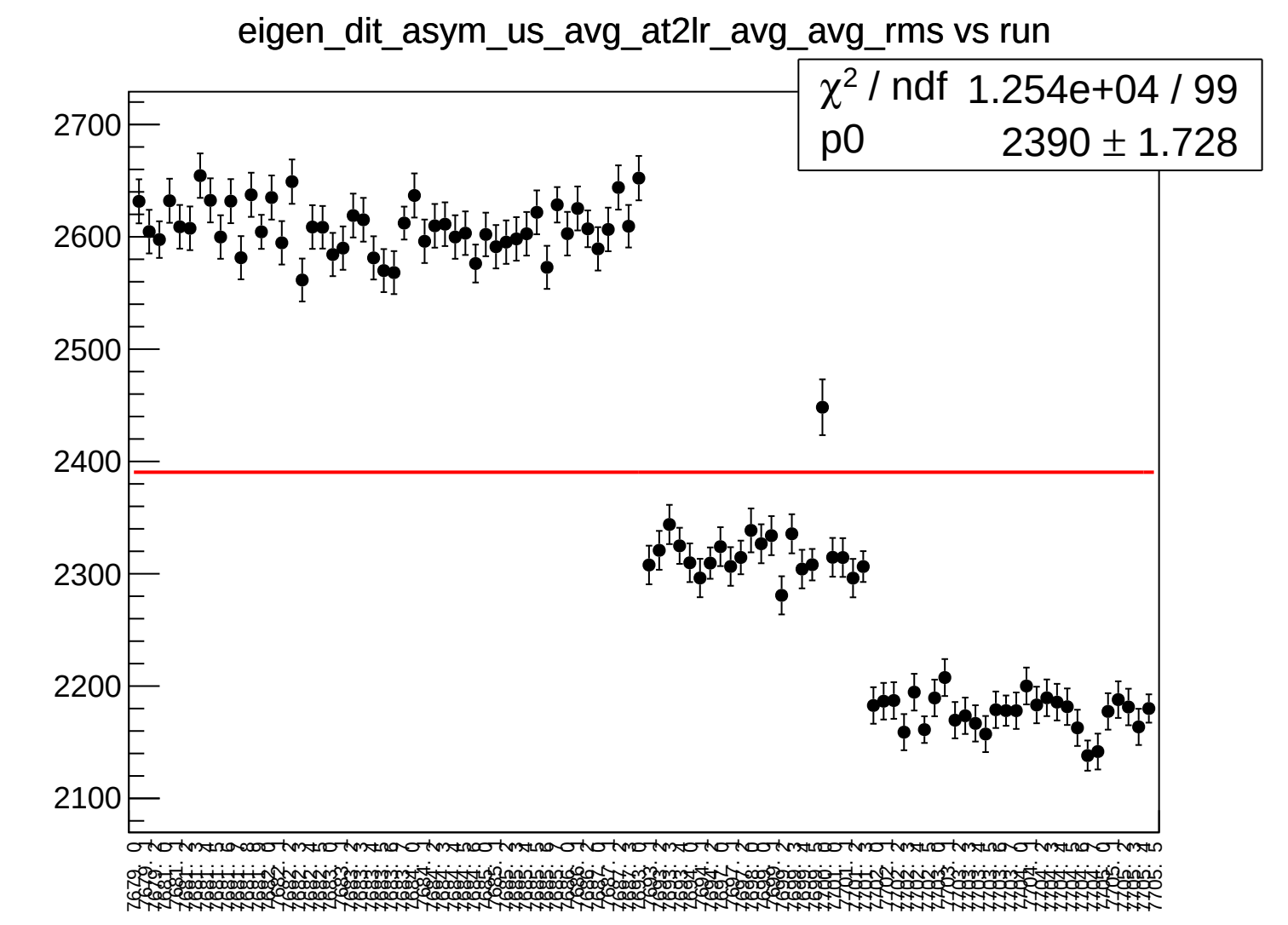

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 104 / 99
p0 1.888e+04 ± 1.217e+04
400
200
0
−200
−400
−600
pull
Entries 100
Mean 5096
Std Dev 0
2
1
0
−1
−2
−3

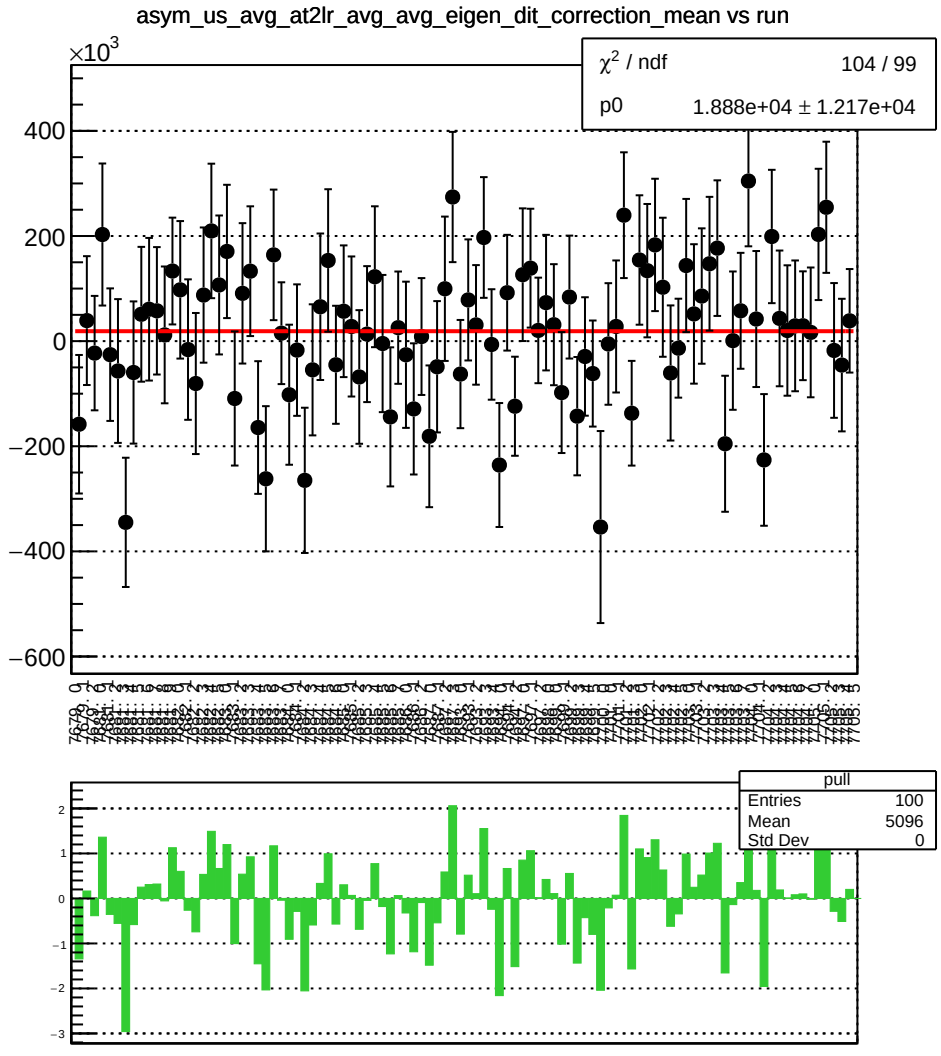

pull1D
Entries 100
Mean 0.0008862
Std Dev 1.02
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

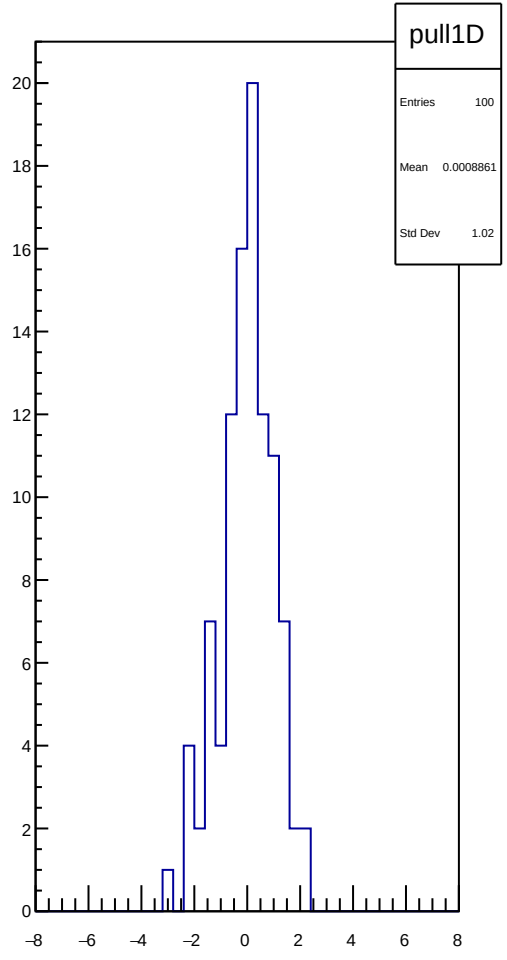

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 6535 / 99
p0 1.192e+04 ± 8.604
13500
13000
12500
12000
11500
11000
10500
10000
9500

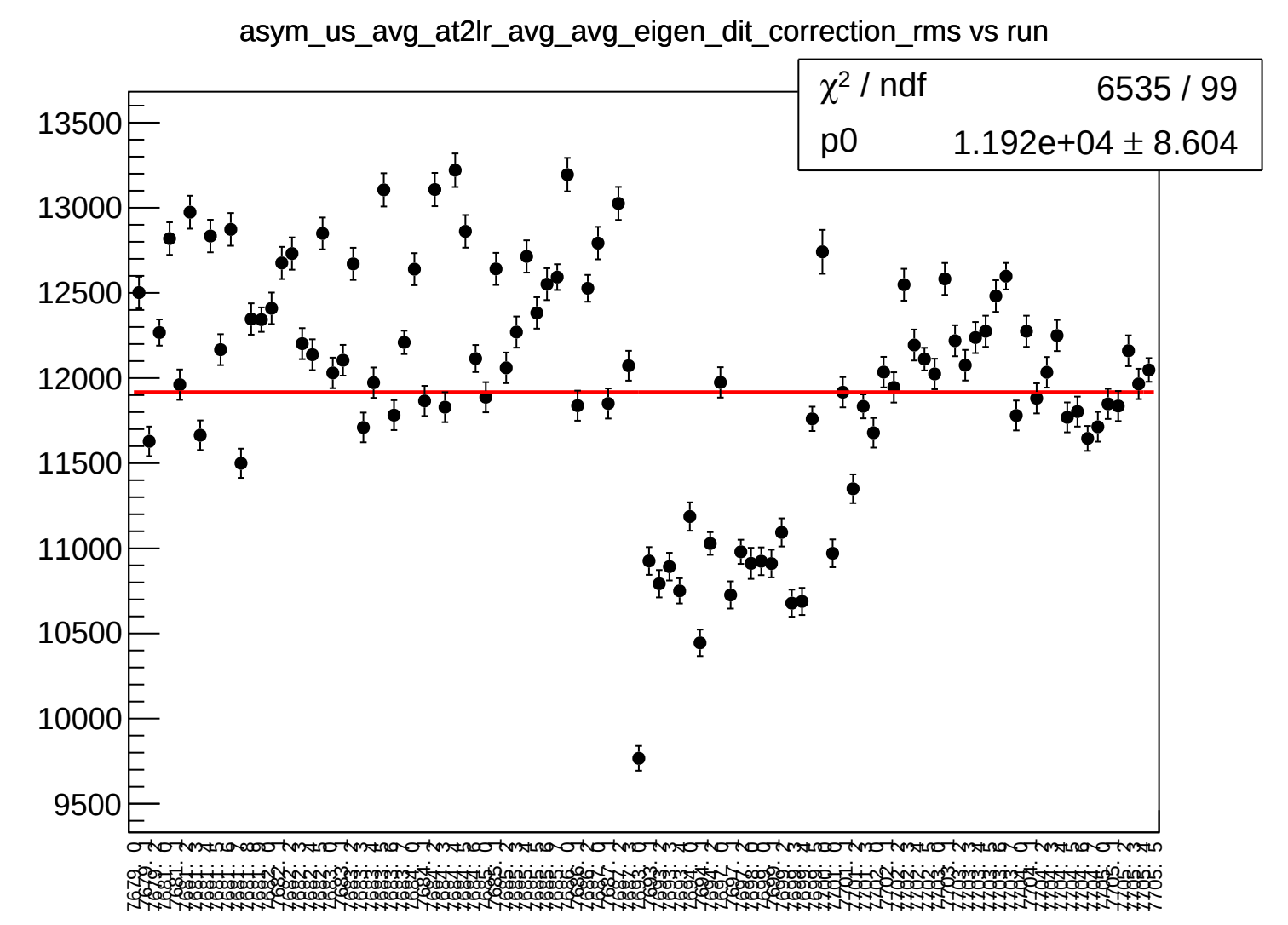

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 85.06 / 99
p0 −2825 ± 2444
pull
Entries 100
Mean −173.8
Std Dev 0

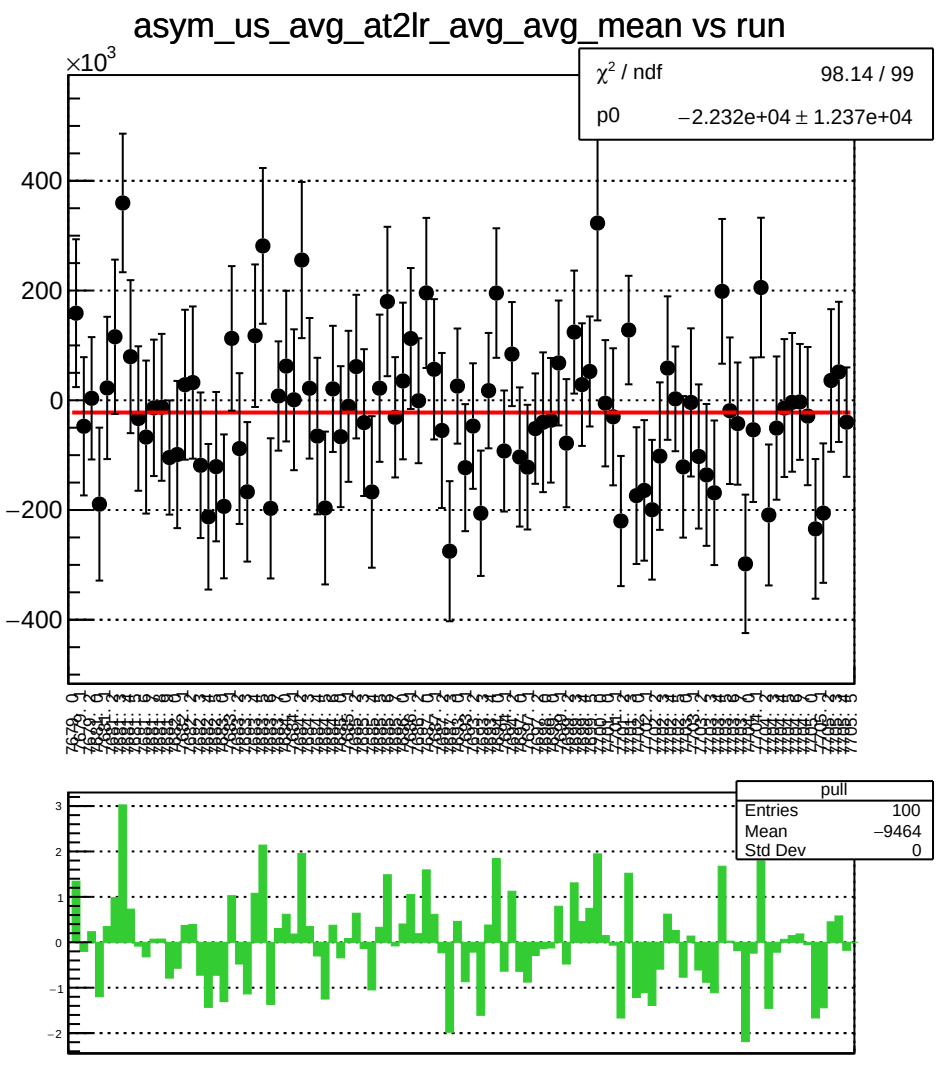

pull1D
Entries 100
Mean −0.006731
Std Dev 0.9223

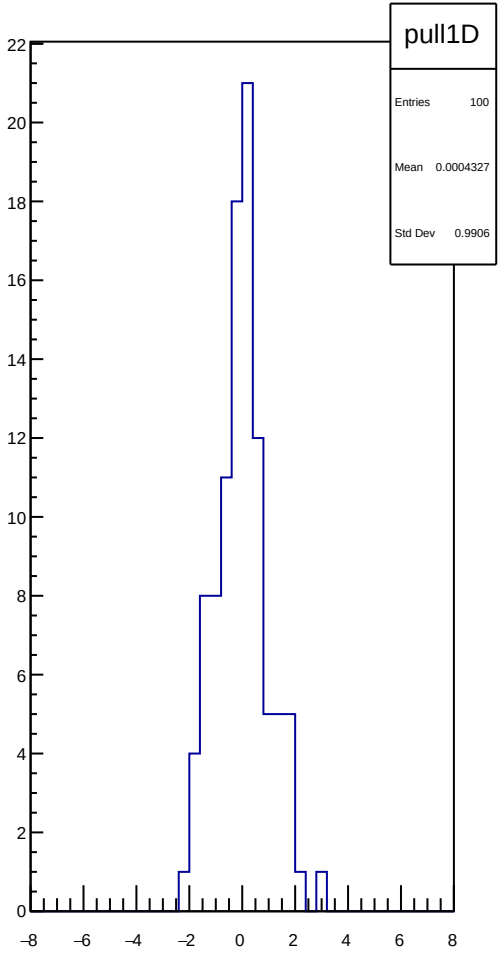

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1.254e+04 / 99
p0 2390 ± 1.728
2700
2600
2500
2400
2300
2200
2100

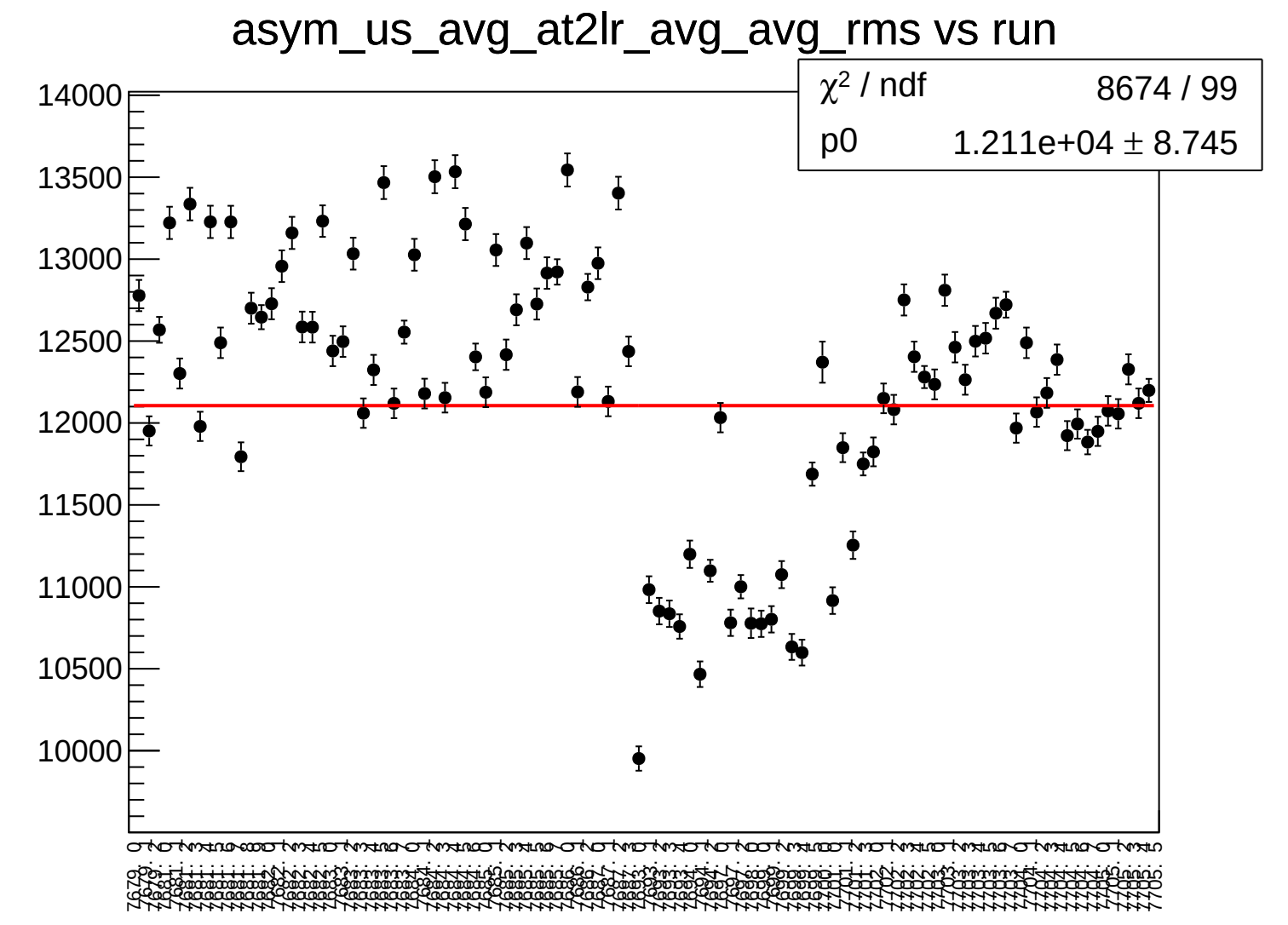

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 104 / 99
p0 1.888e+04 ± 1.217e+04
400
200
0
−200
−400
−600
pull
Entries 100
Mean 5096
Std Dev 0
2
1
0
−1
−2
−3

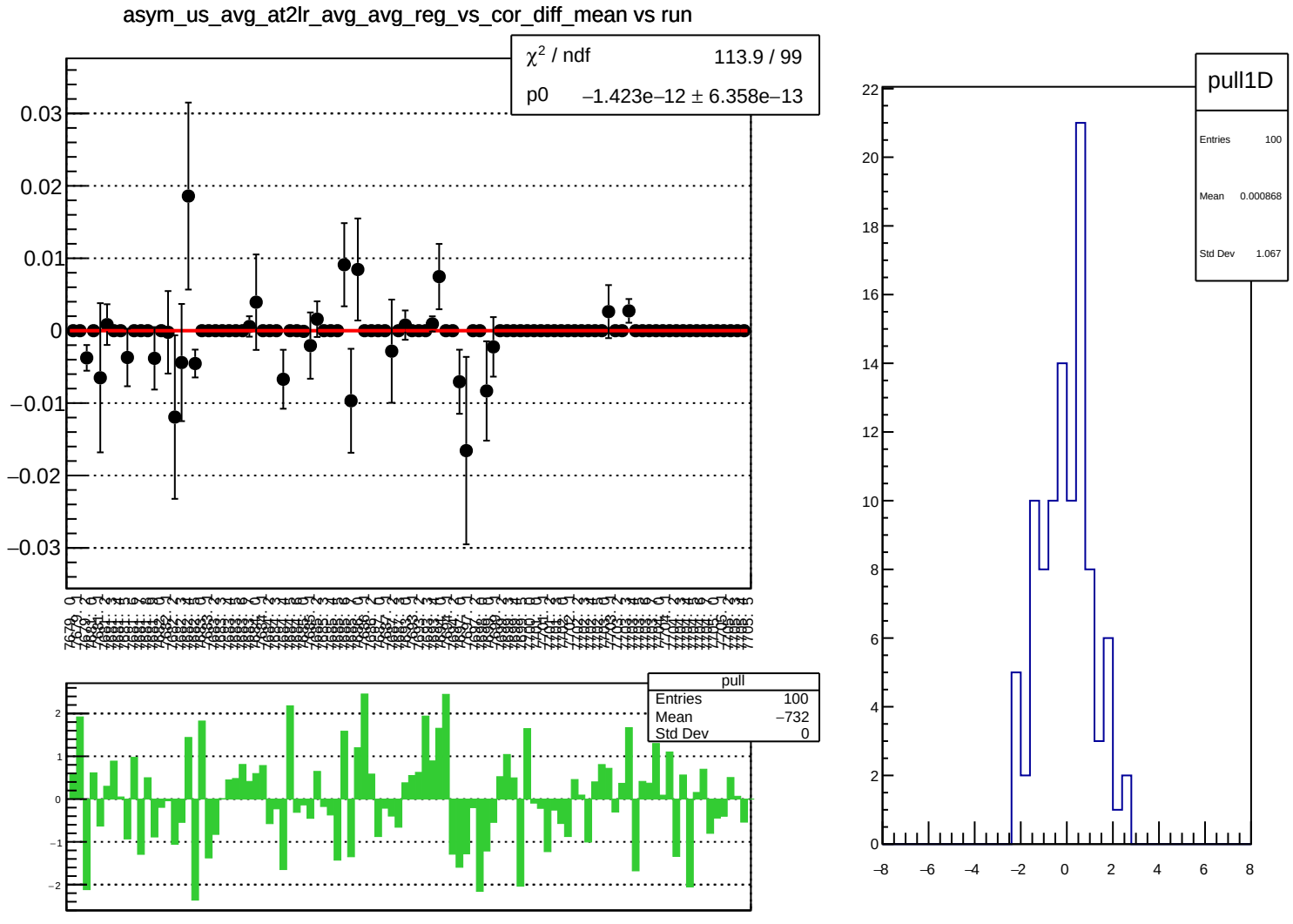

pull1D
Entries 100
Mean 0.0008861
Std Dev 1.02
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

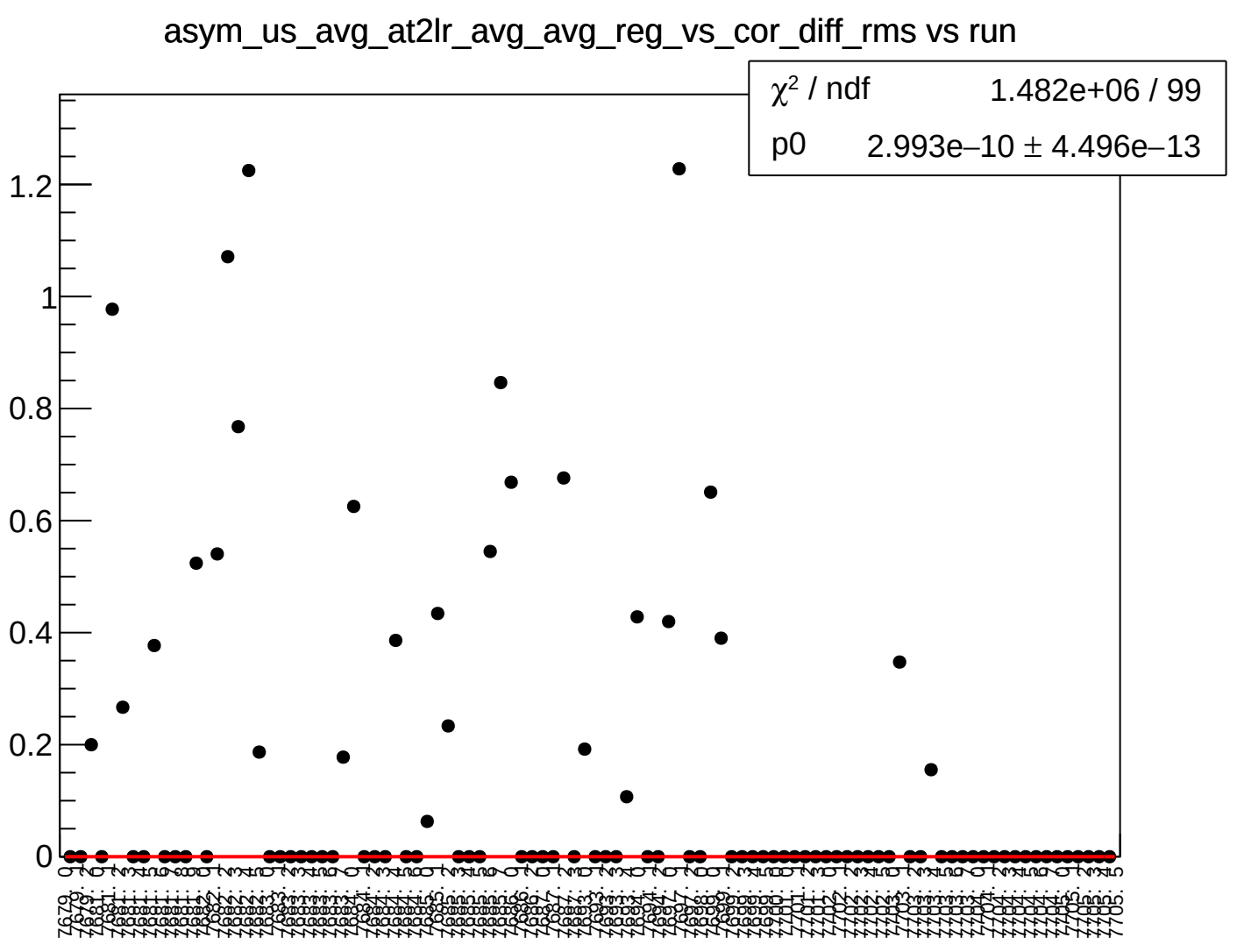

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 6535 / 99
p0 1.192e+04 ± 8.604
13500
13000
12500
12000
11500
11000
10500
10000
9500

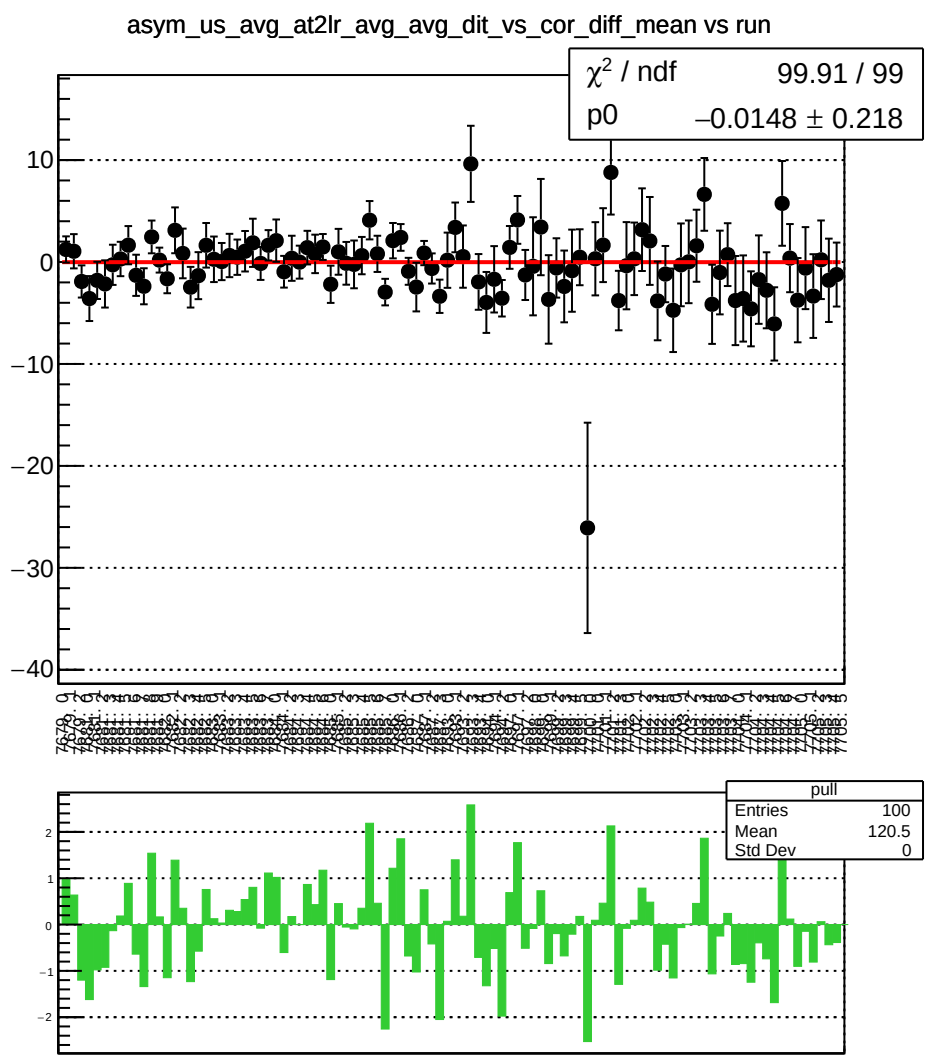

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 98.14 / 99
p0 −2.232e+04 ± 1.237e+04
400
200
0
−200
−400
pull
Entries 100
Mean −9464
Std Dev 0
3
2
1
0
−1
−2

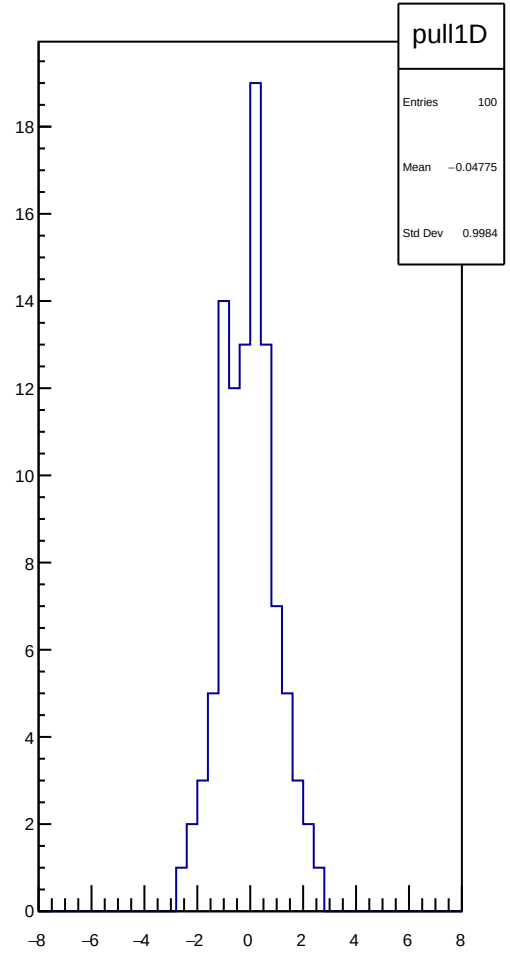

pull1D
Entries 100
Mean 0.0004327
Std Dev 0.9906
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

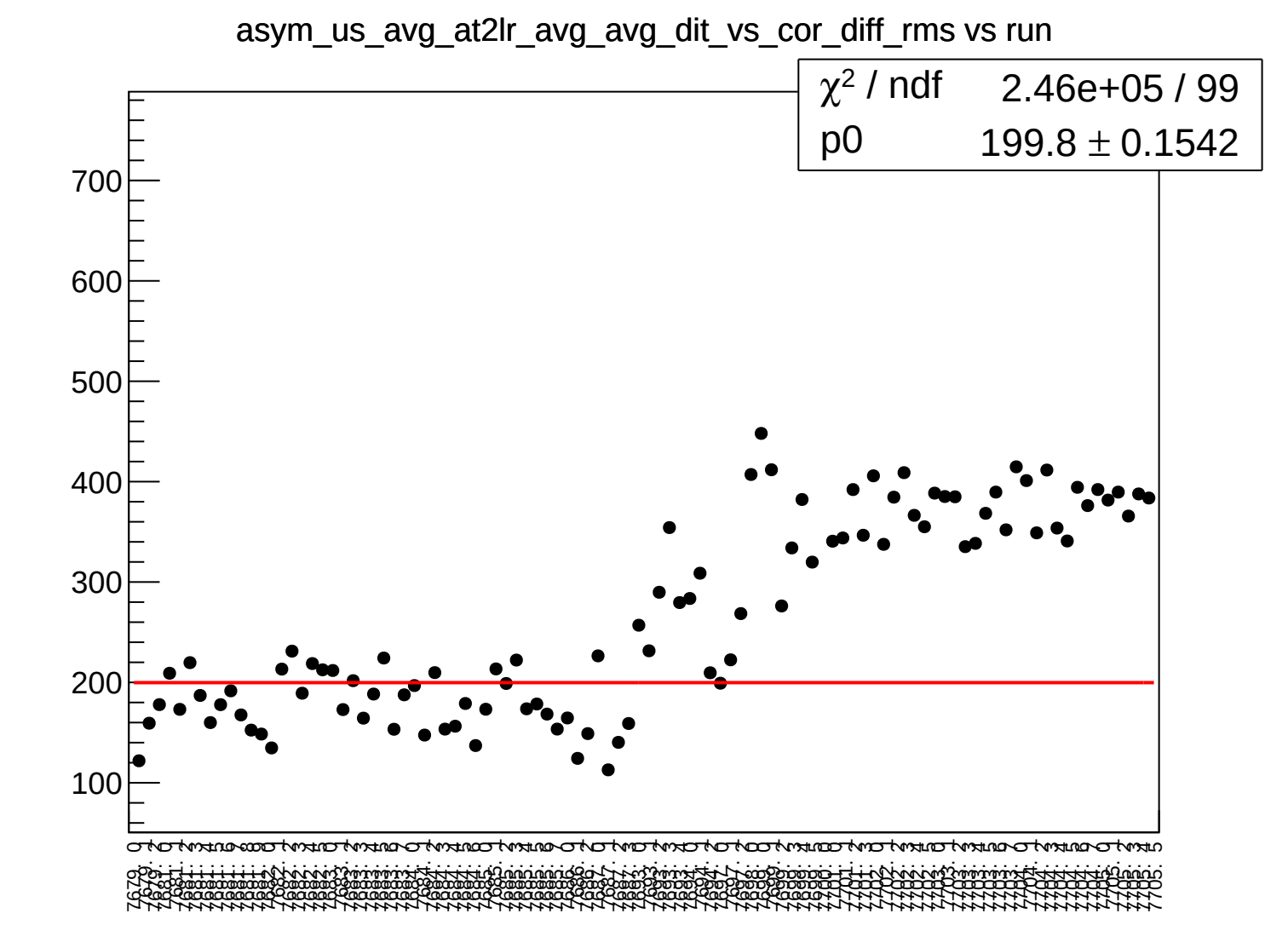

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 8674 / 99
p0 1.211e+04 ± 8.745
14000
13500
13000
12500
12000
11500
11000
10500
10000

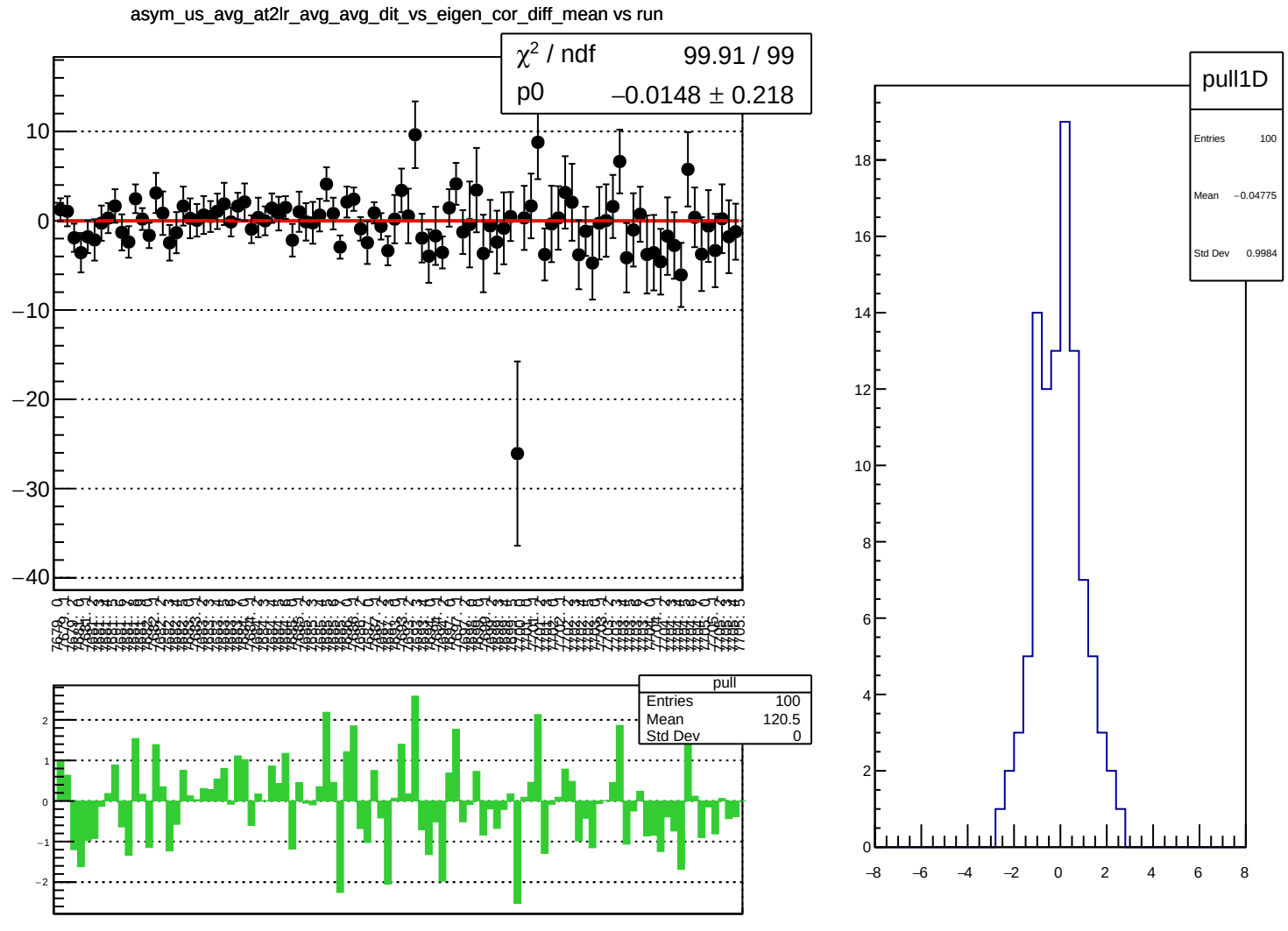

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 113.9 / 99
p0 −1.423e−12 ± 6.358e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 100
Mean −732
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.000868
Std Dev 1.067
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

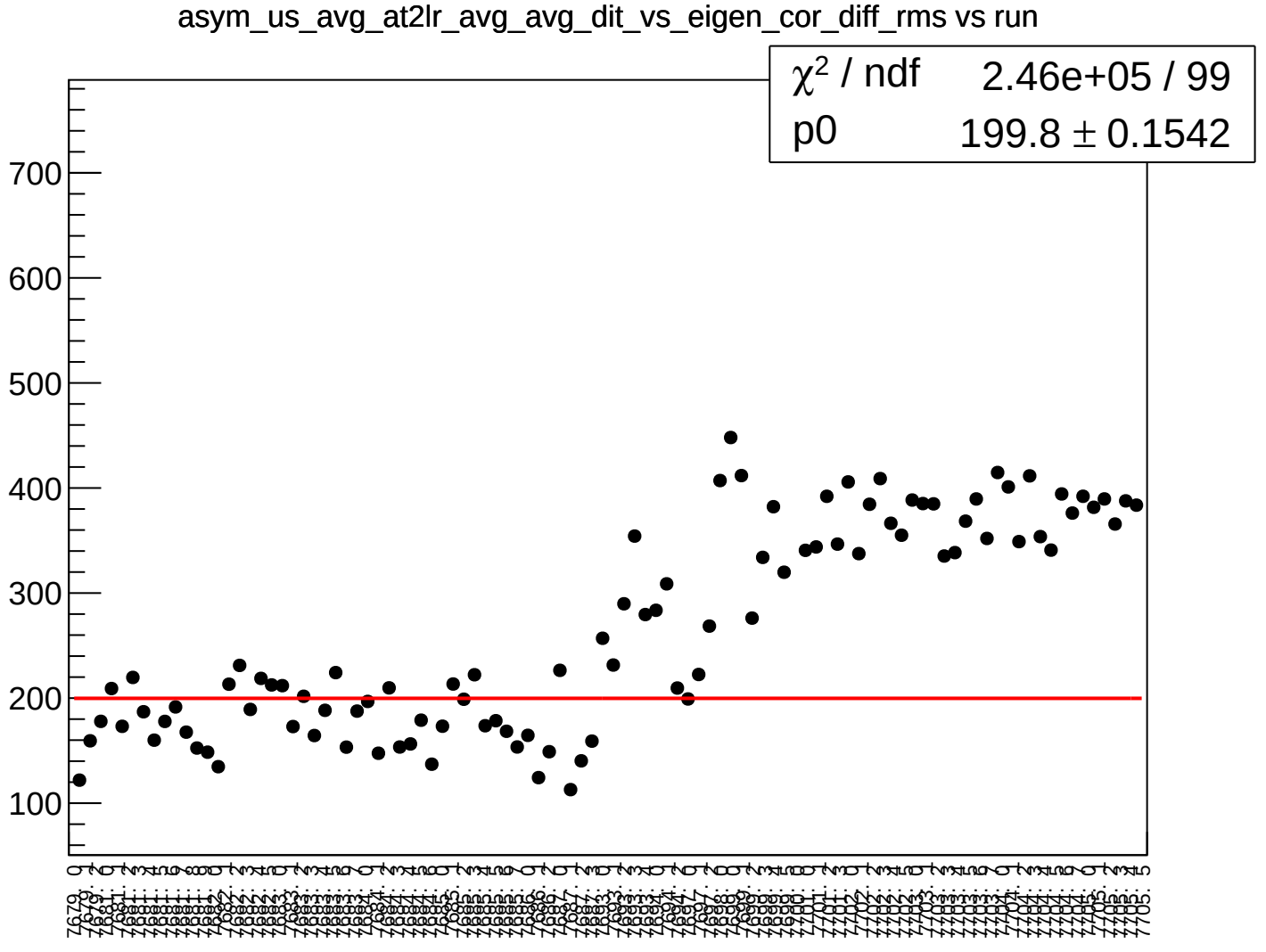

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.482e+06 / 99
p0 2.993e−10 ± 4.496e−13
1.2
1
0.8
0.6
0.4
0.2
0

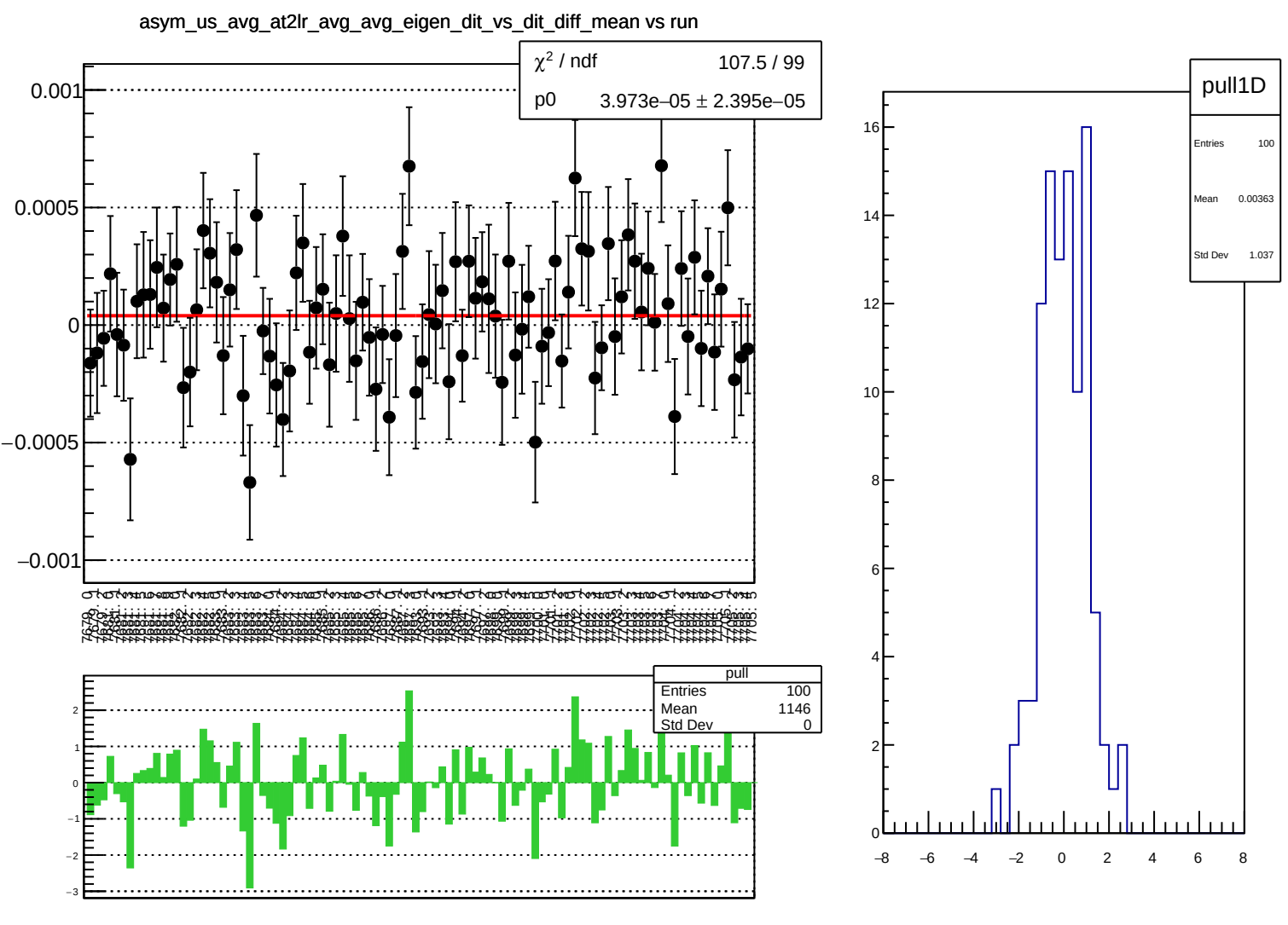

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 99.91 / 99
p0 −0.0148 ± 0.218
pull
Entries 100
Mean 120.5
Std Dev 0

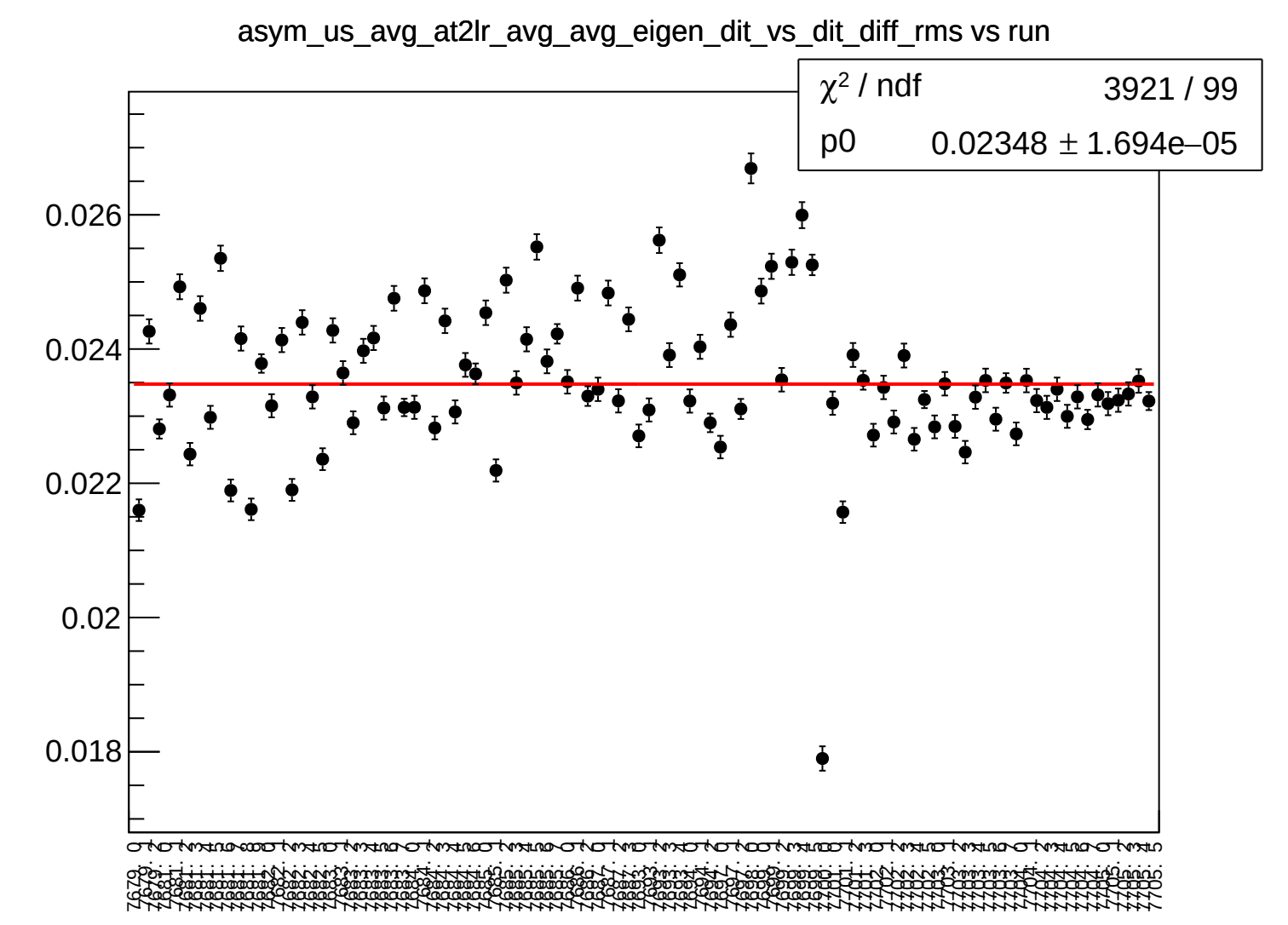

pull1D
Entries 100
Mean −0.04775
Std Dev 0.9984

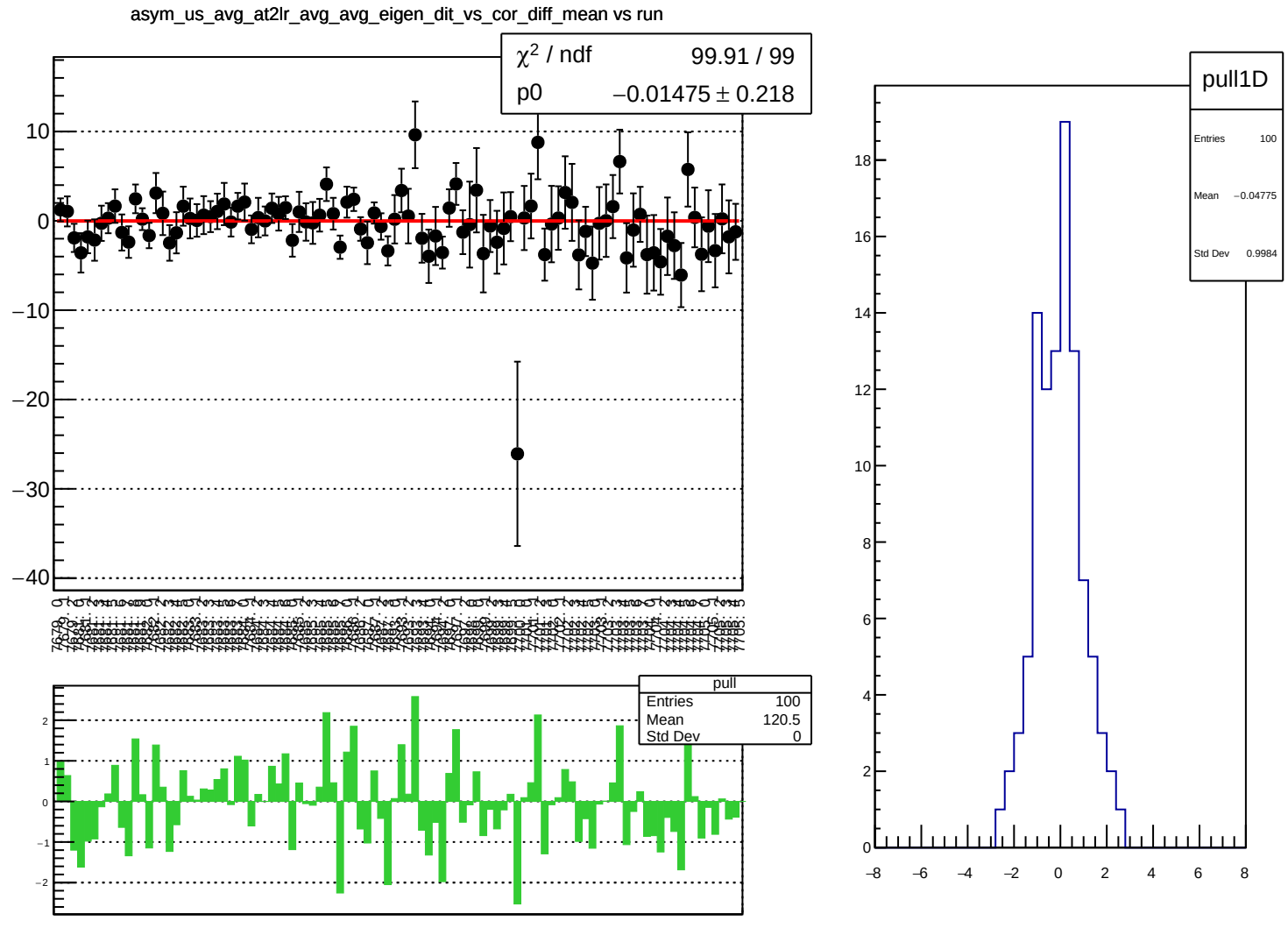

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.46e+05 / 99
p0 199.8 ± 0.1542
700
600
500
400
300
200
100

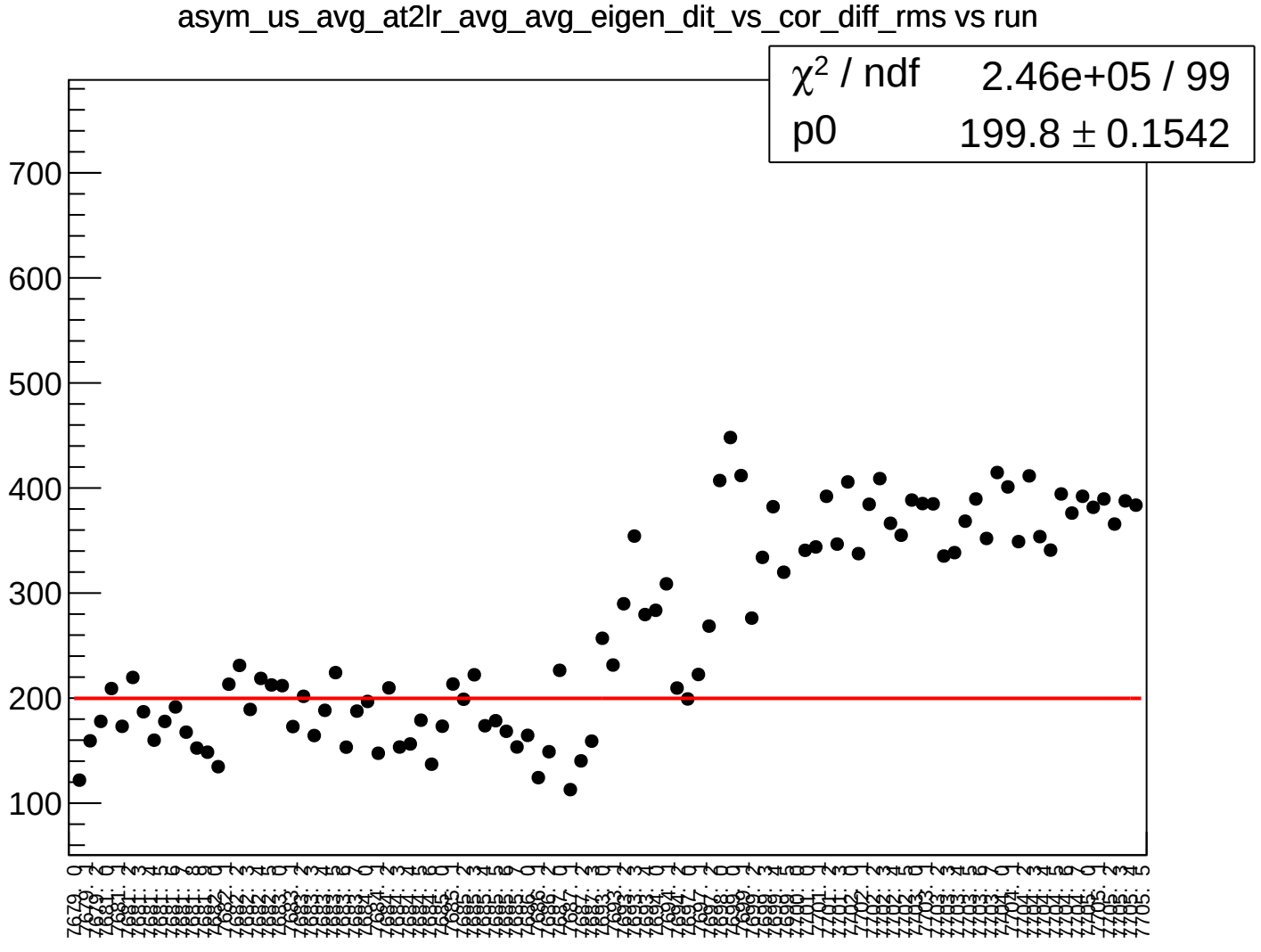

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.91 / 99
p0 −0.0148 ± 0.218
pull
Entries 100
Mean 120.5
Std Dev 0
pull1D
Entries 100
Mean −0.04775
Std Dev 0.9984

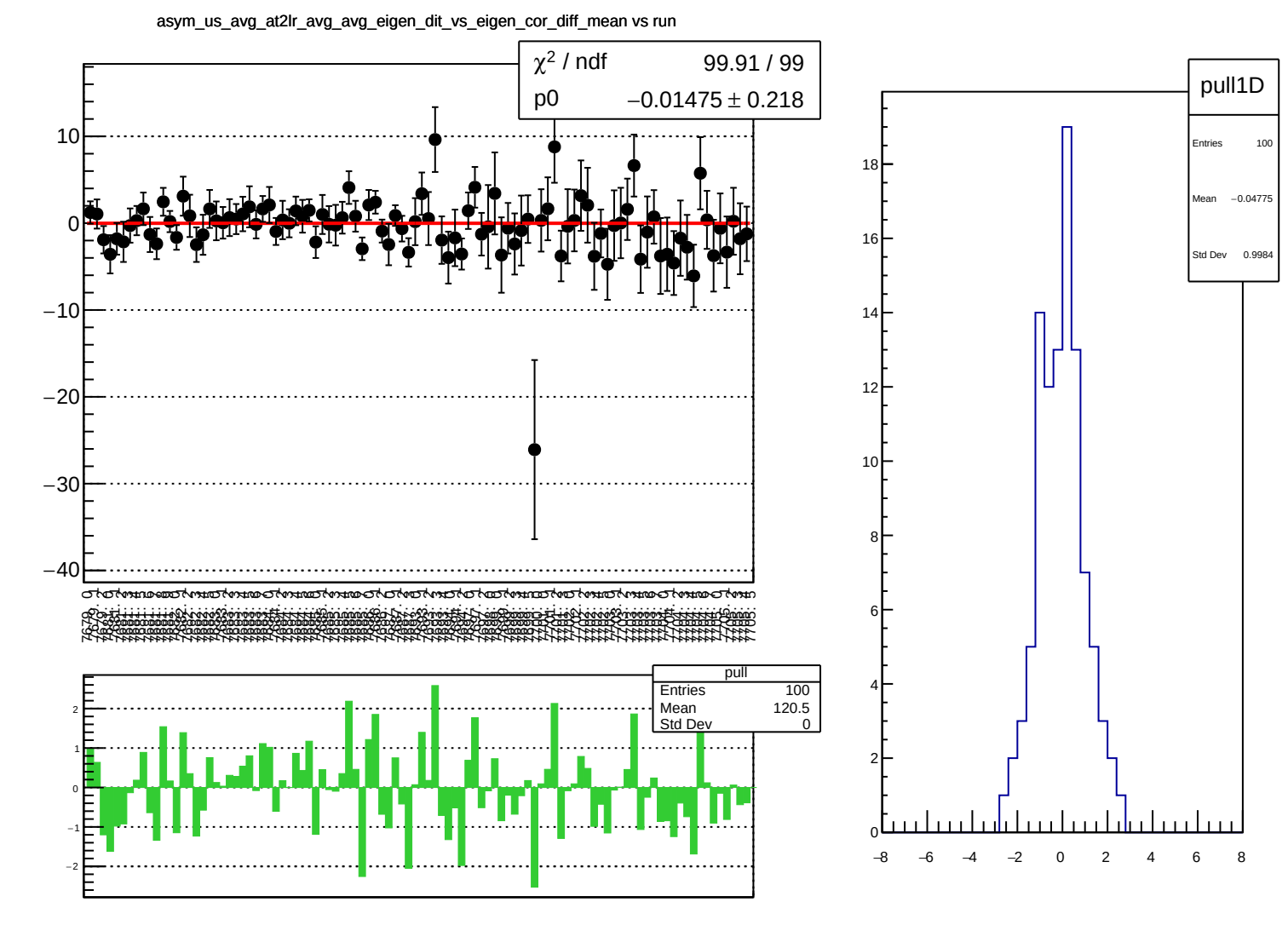

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.46e+05 / 99
p0 199.8 ± 0.1542
700
600
500
400
300
200
100

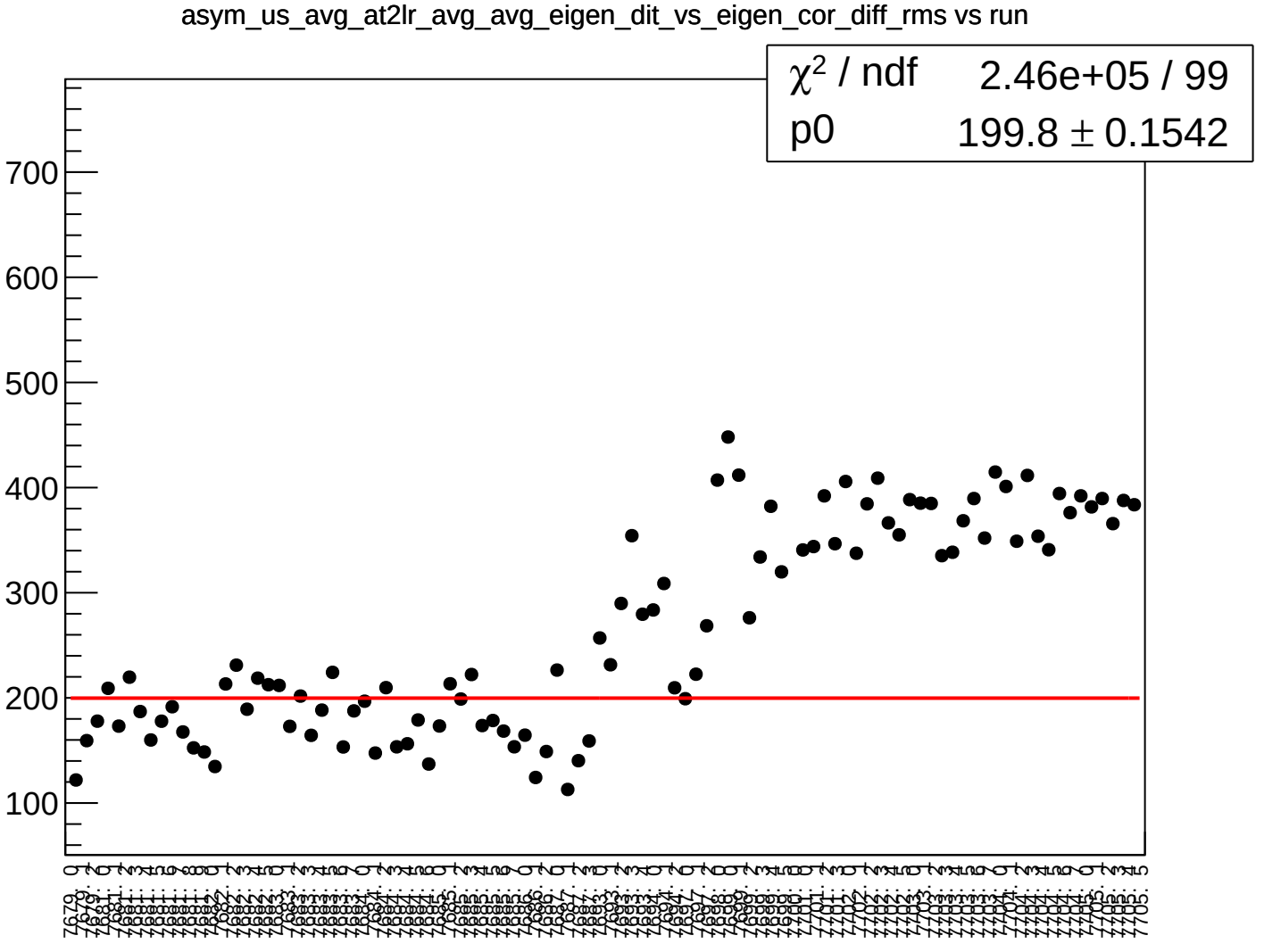

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 107.5 / 99
p0 3.973e−05 ± 2.395e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 100
Mean 1146
Std Dev 0
pull1D
Entries 100
Mean 0.00363
Std Dev 1.037

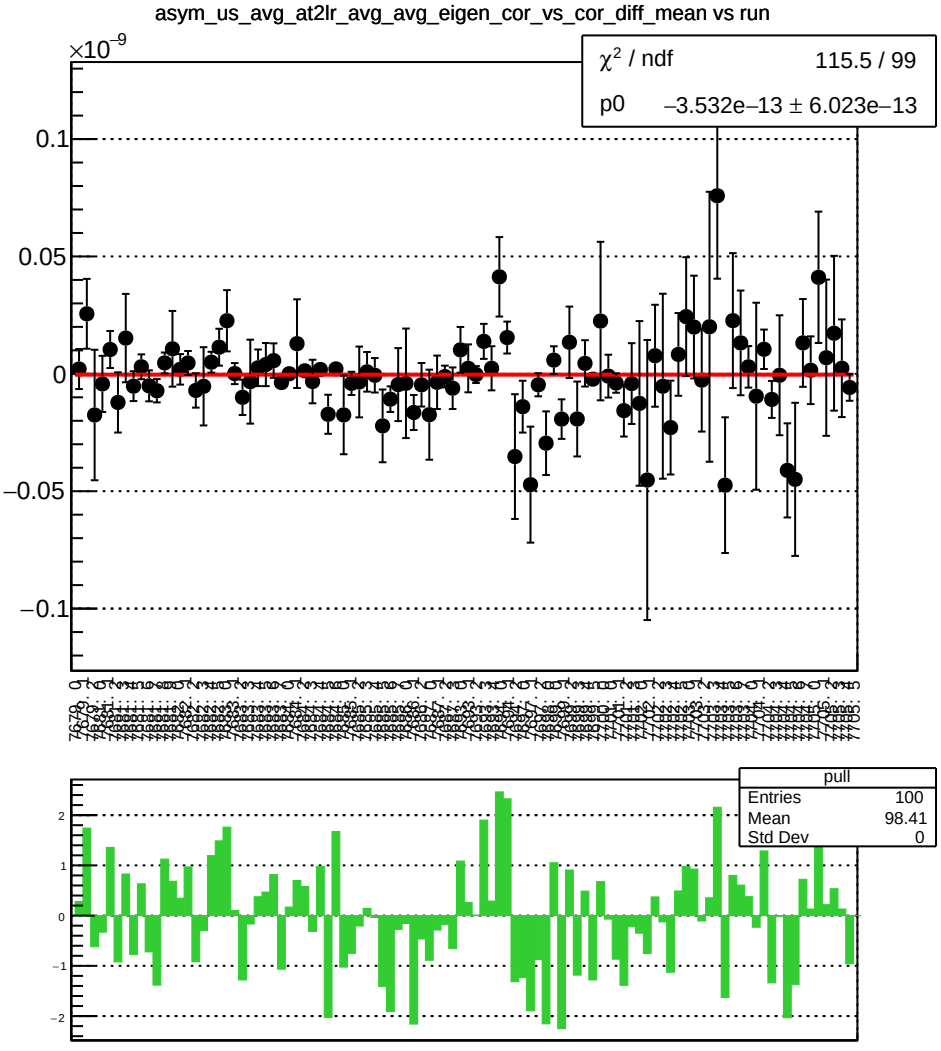

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3921 / 99
p0 0.02348 ± 1.694e−05
0.026
0.024
0.022
0.02
0.018

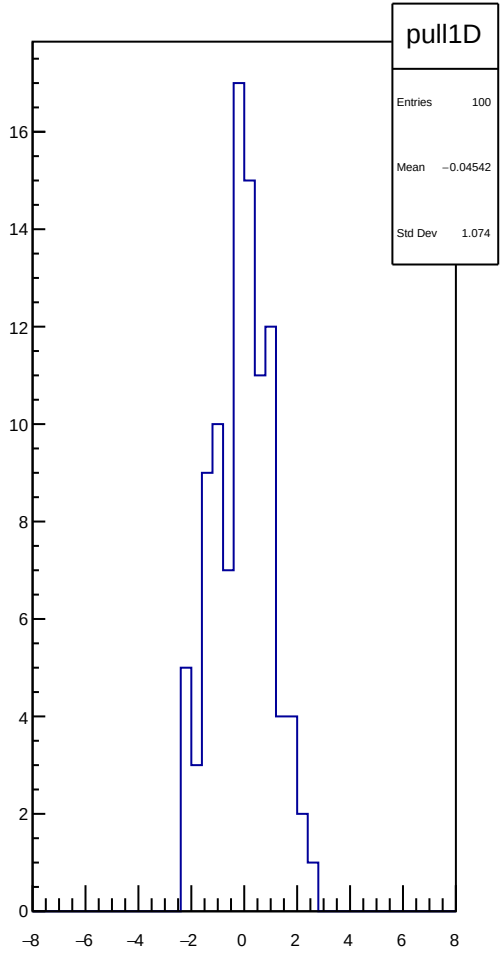

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.91 / 99
p0 −0.01475 ± 0.218
pull
Entries 100
Mean 120.5
Std Dev 0
pull1D
Entries 100
Mean −0.04775
Std Dev 0.9984

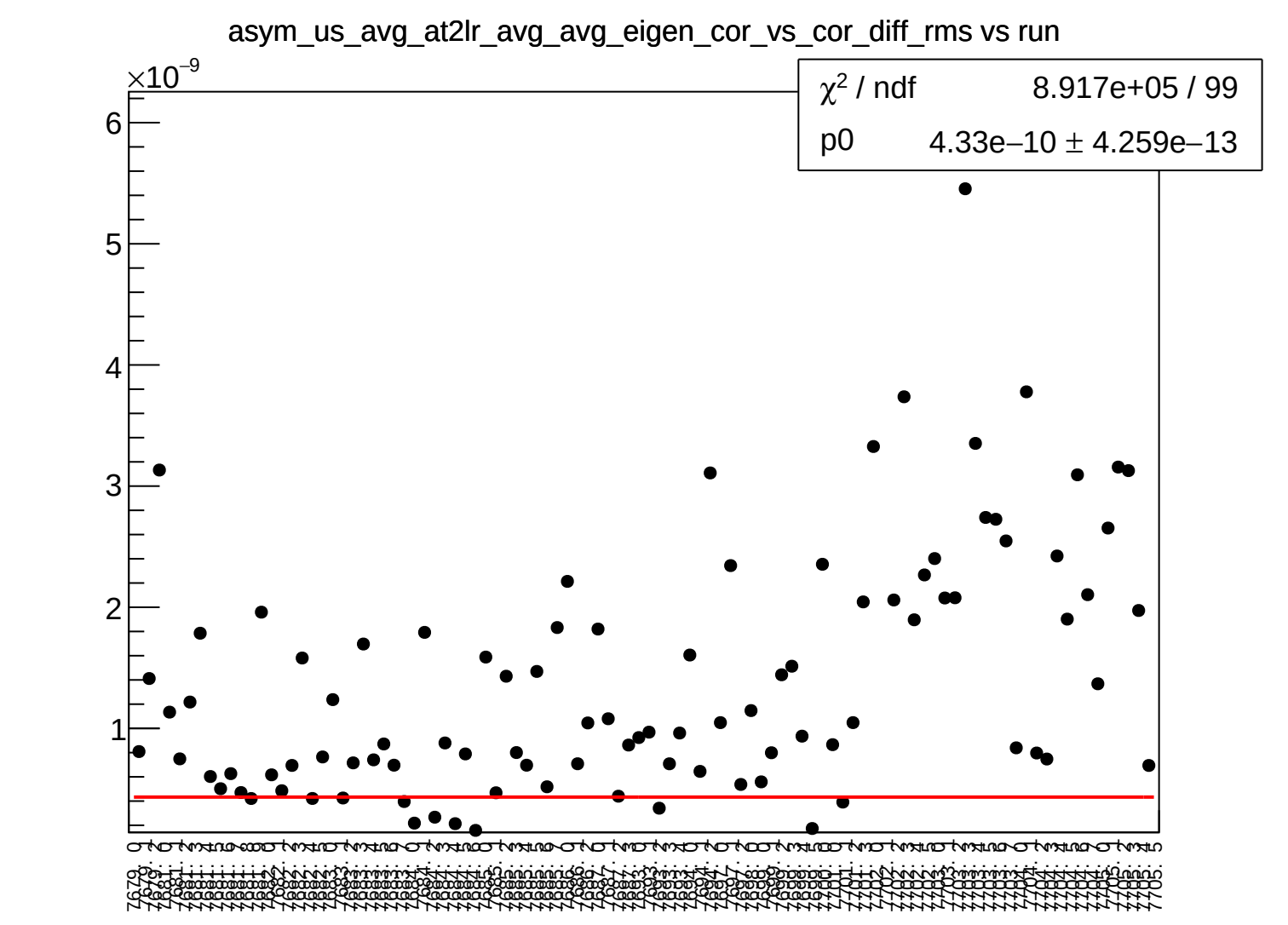

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.46e+05 / 99
p0 199.8 ± 0.1542
700
600
500
400
300
200
100

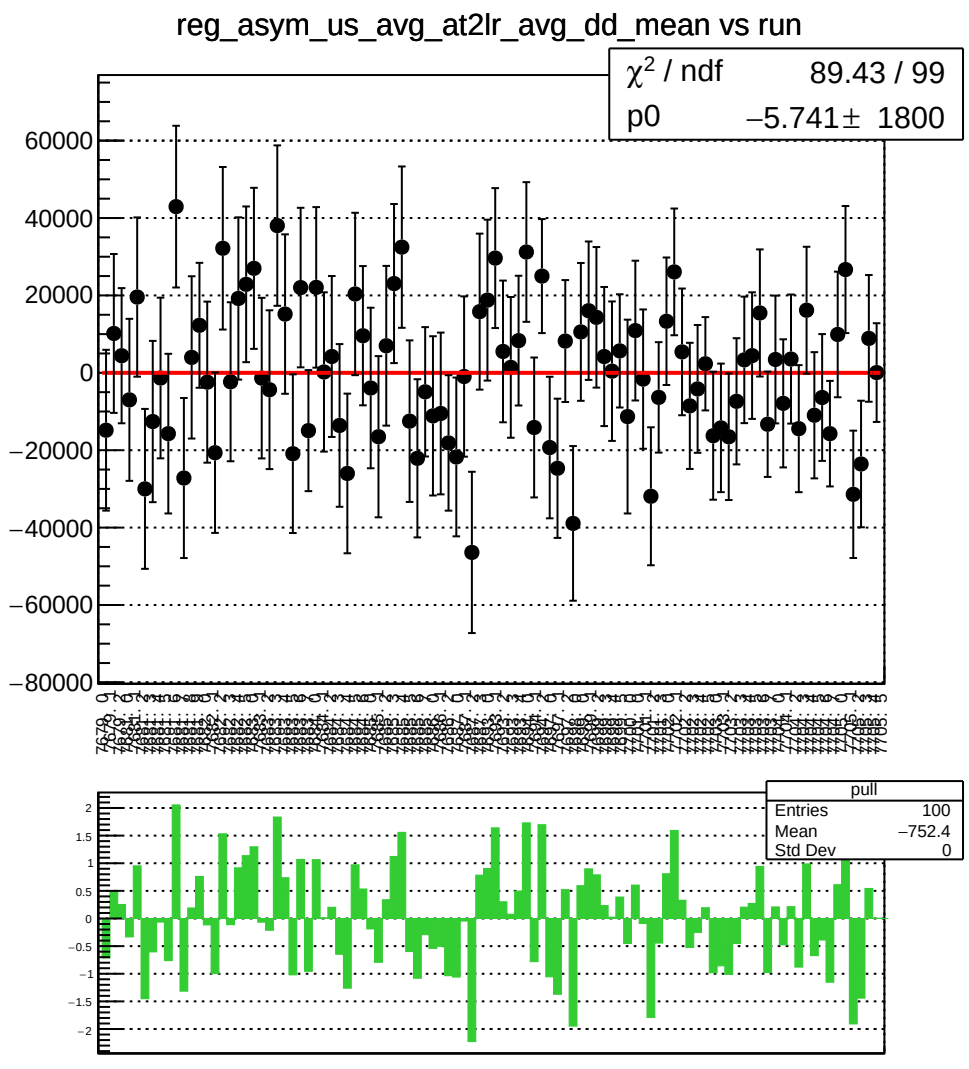

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.91 / 99
p0 −0.01475 ± 0.218
pull
Entries 100
Mean 120.5
Std Dev 0
pull1D
Entries 100
Mean −0.04775
Std Dev 0.9984

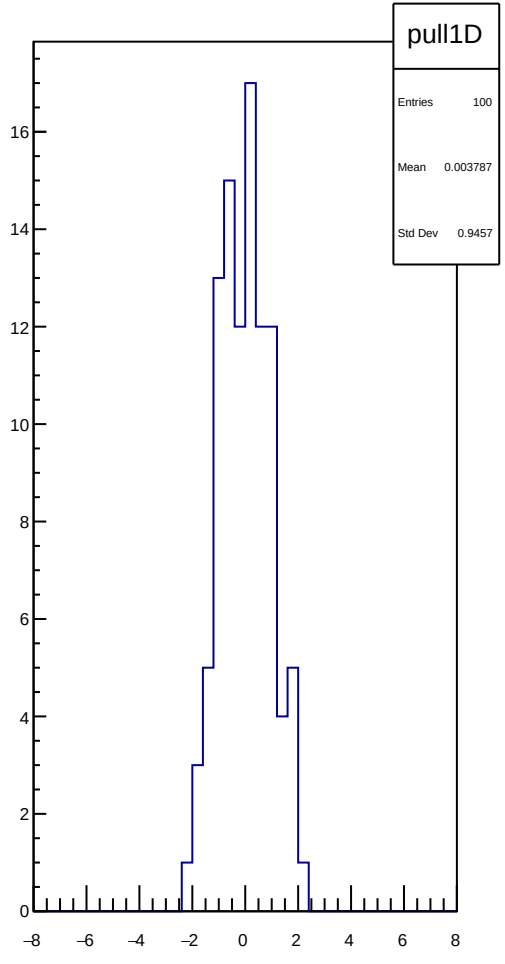

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.46e+05 / 99
p0 199.8 ± 0.1542
700
600
500
400
300
200
100

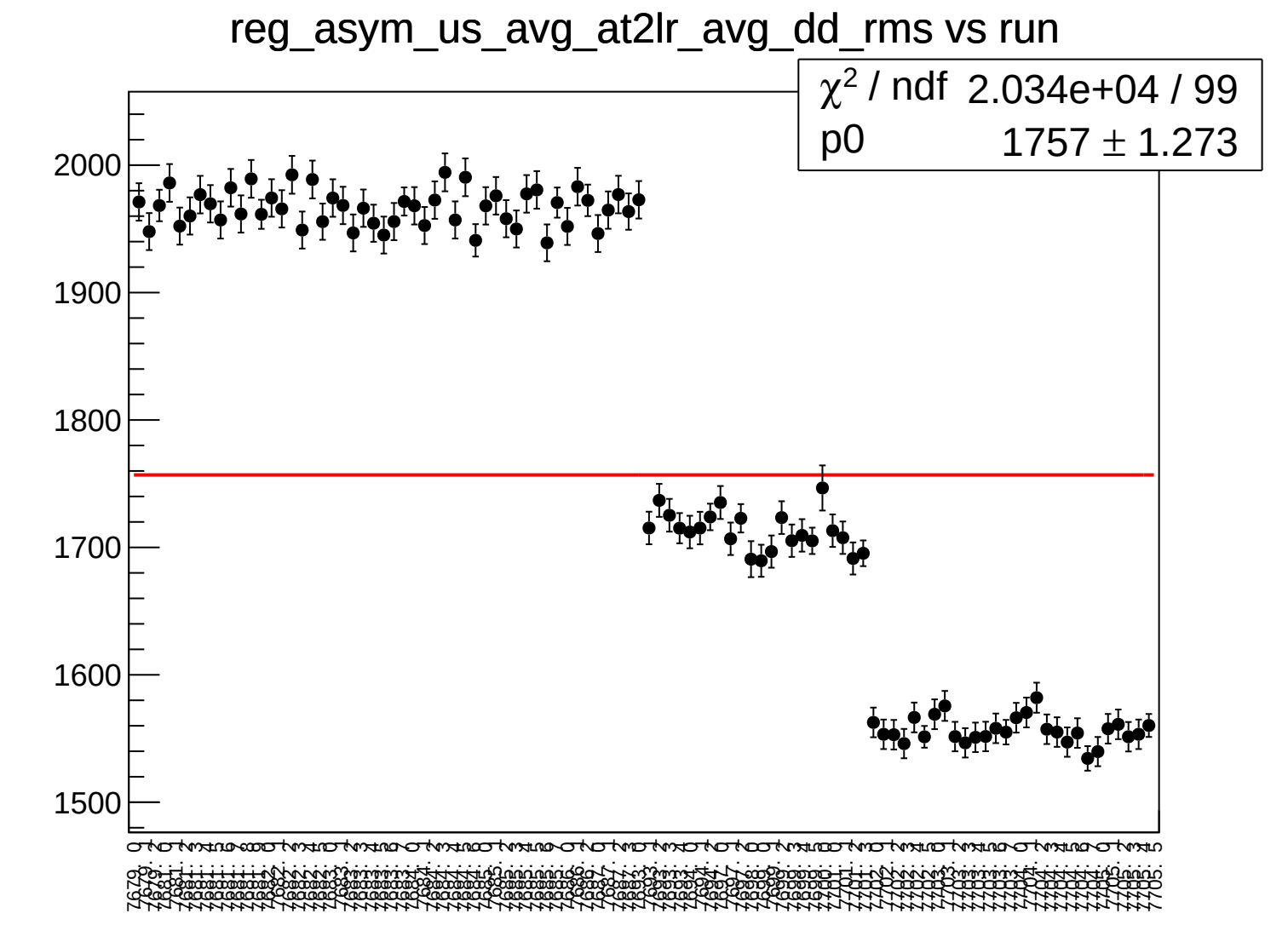

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 115.5 / 99
p0 −3.532e−13 ± 6.023e−13
0.1
0.05
0
−0.05
−0.1
pull
Entries 100
Mean 98.41
Std Dev 0
2
1
0
−1
−2

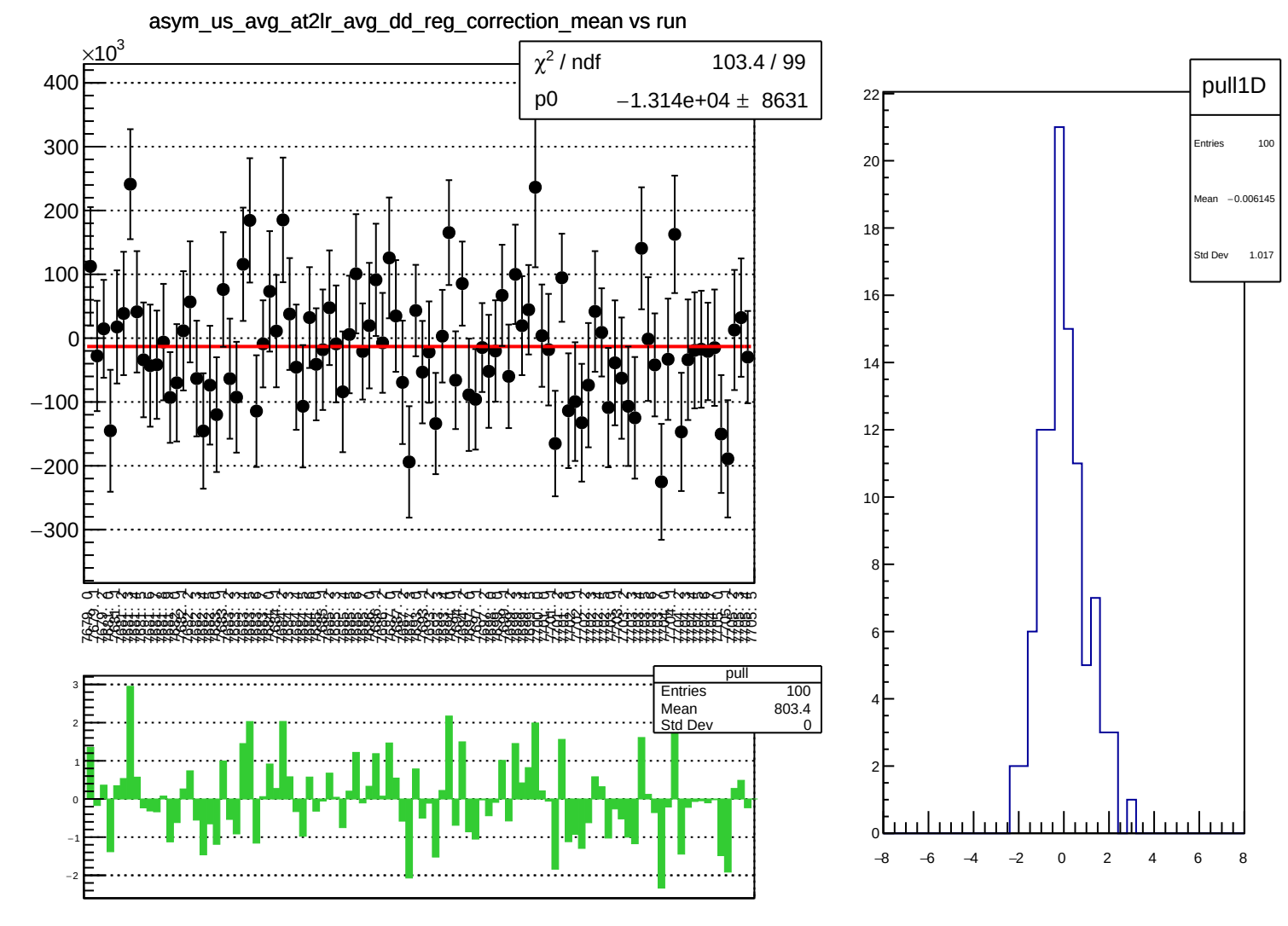

pull1D
Entries 100
Mean −0.04542
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

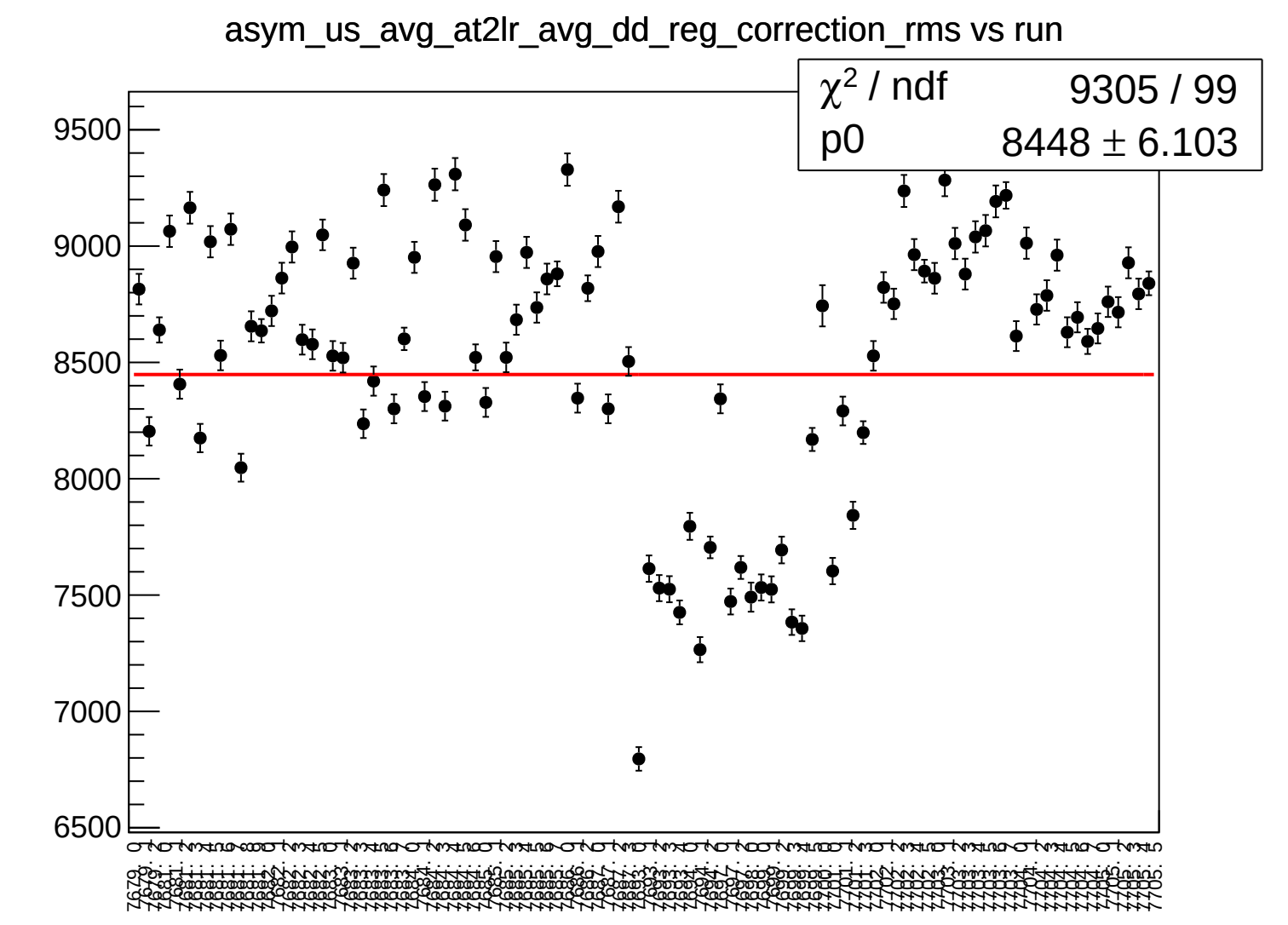

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.917e+05 / 99
p0 4.33e−10 ± 4.259e−13
6
5
4
3
2
1

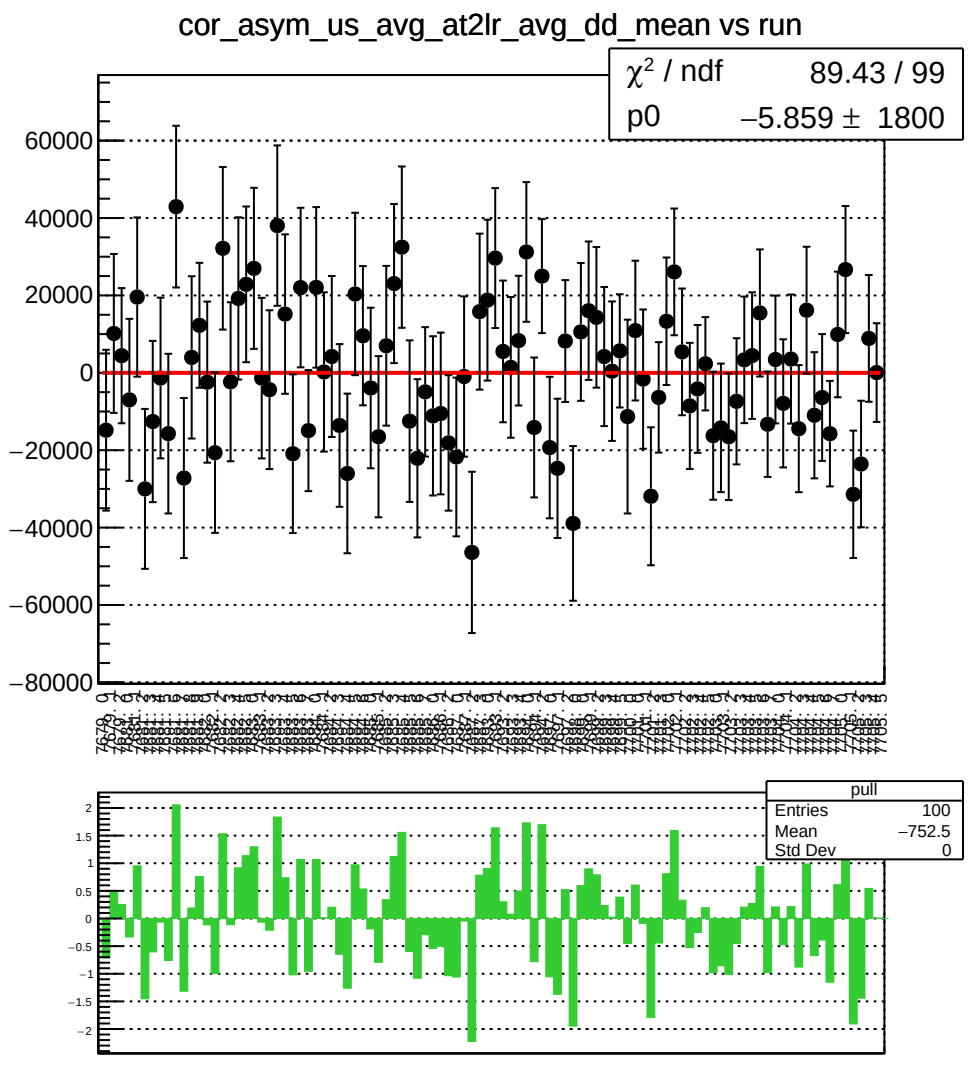

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 89.43 / 99
p0 −5.741± 1800
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −752.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

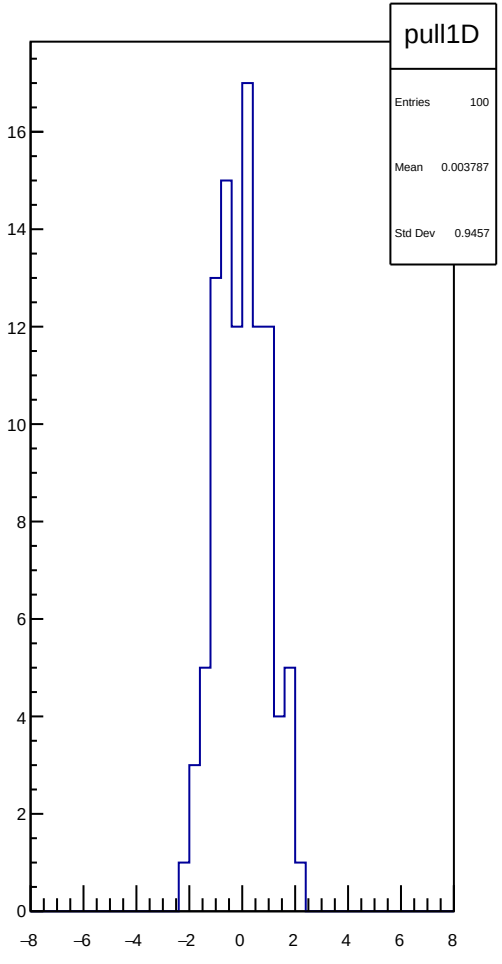

pull1D
Entries 100
Mean 0.003787
Std Dev 0.9457
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

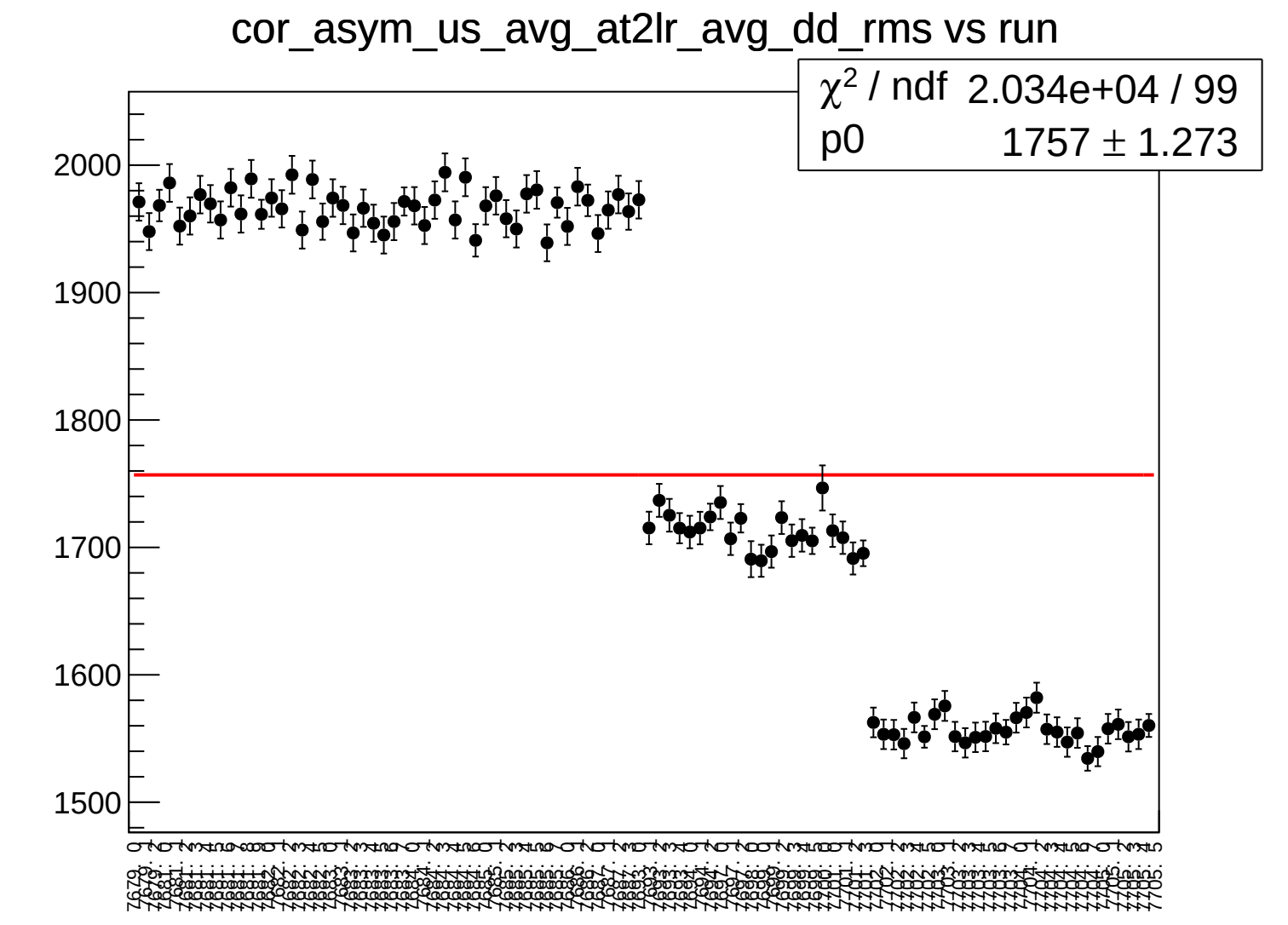

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 2.034e+04 / 99
p0 1757 ± 1.273
2000
1900
1800
1700
1600
1500

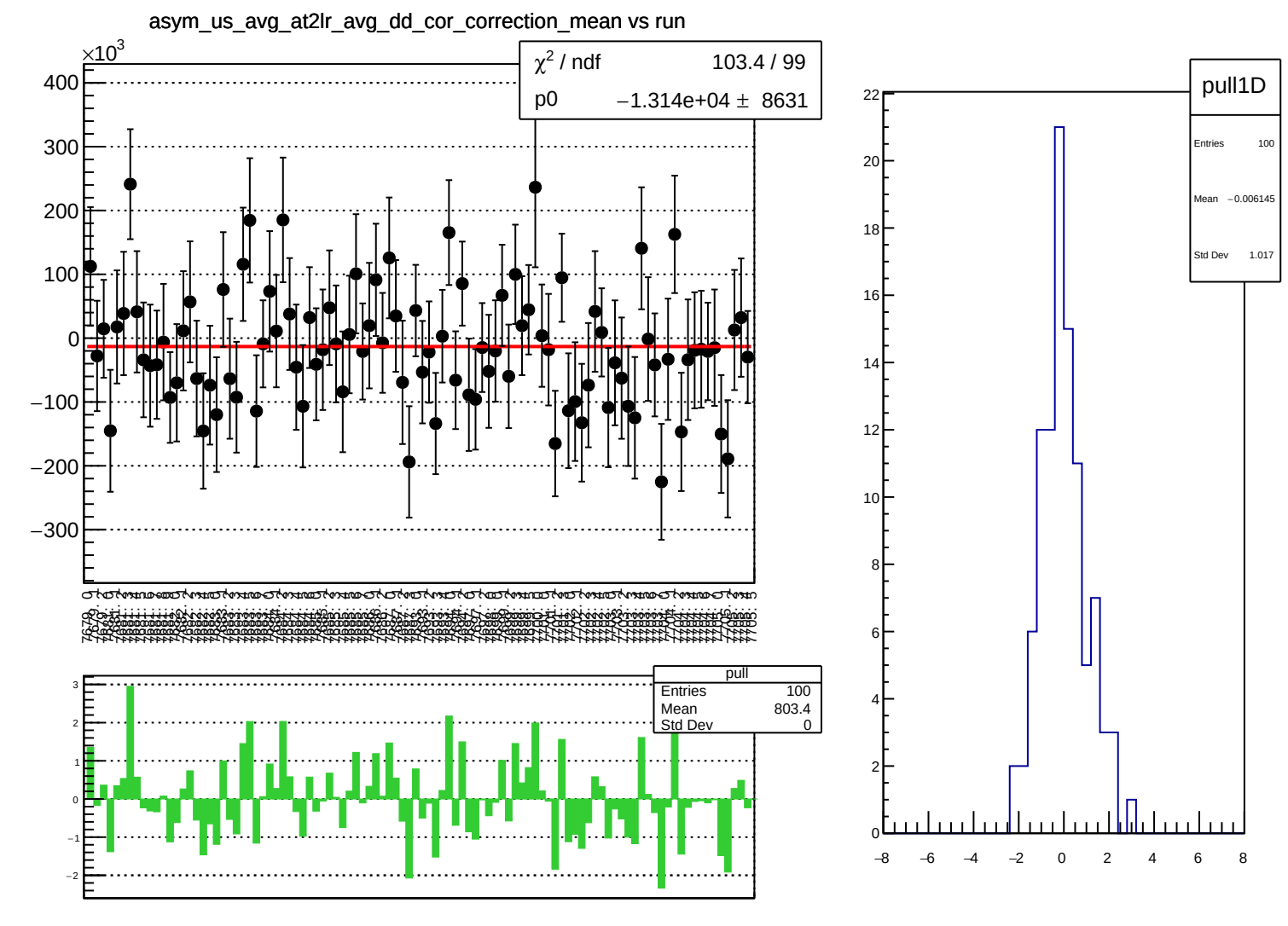

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 103.4 / 99
p0 −1.314e+04 ± 8631
pull
Entries 100
Mean 803.4
Std Dev 0
pull1D
Entries 100
Mean −0.006145
Std Dev 1.017

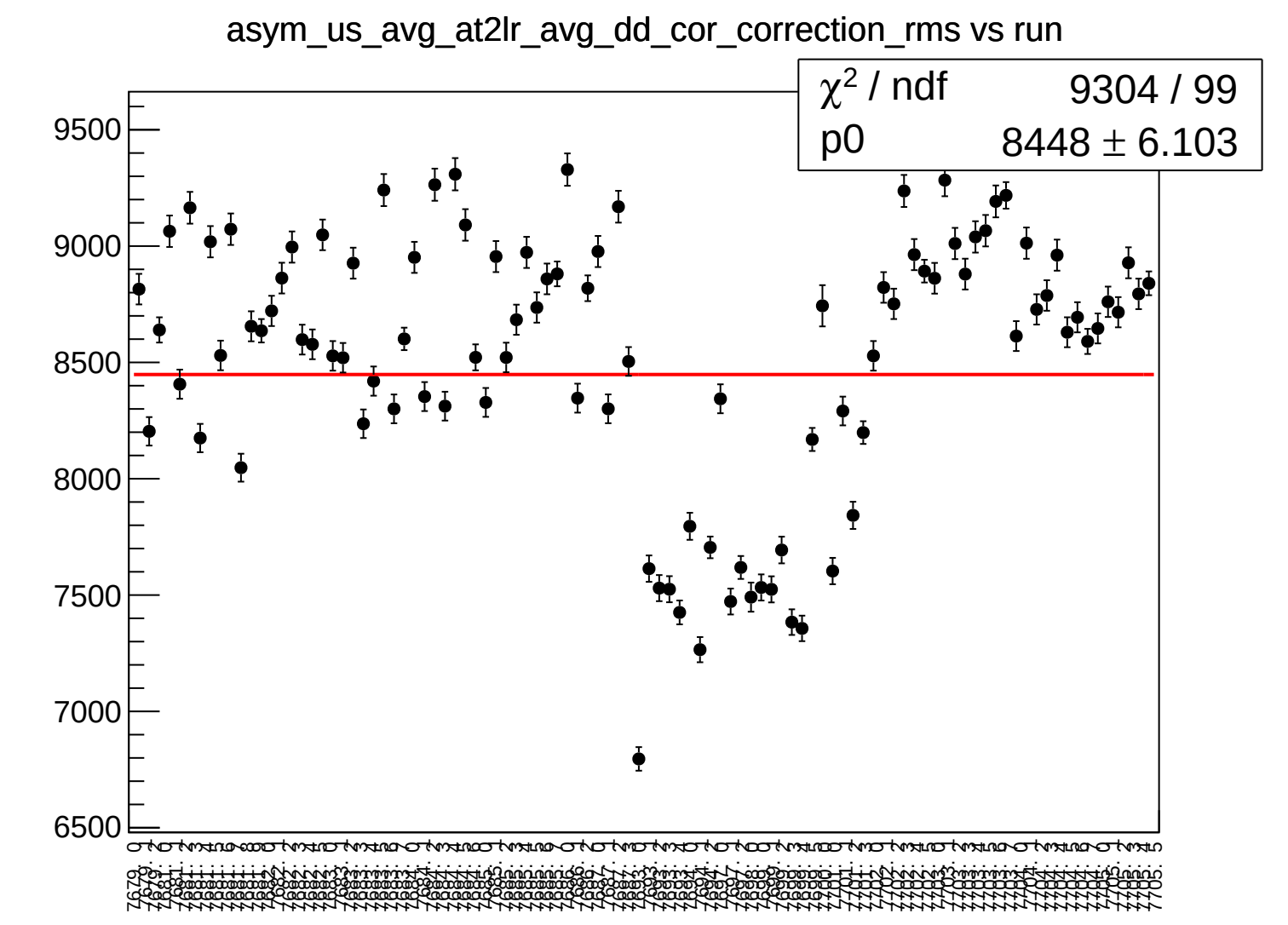

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 9305 / 99
p0 8448 ± 6.103
9500
9000
8500
8000
7500
7000
6500

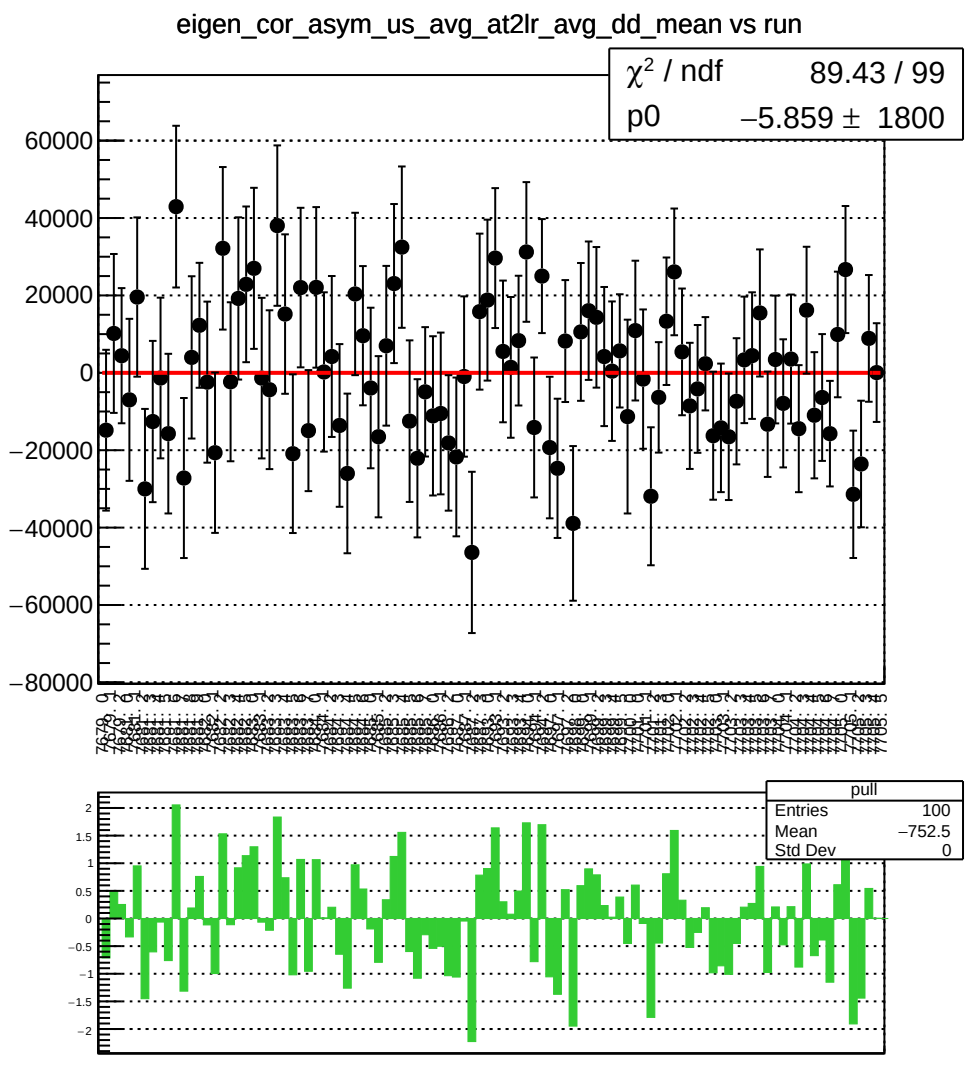

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 89.43 / 99
p0 −5.859 ± 1800
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −752.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

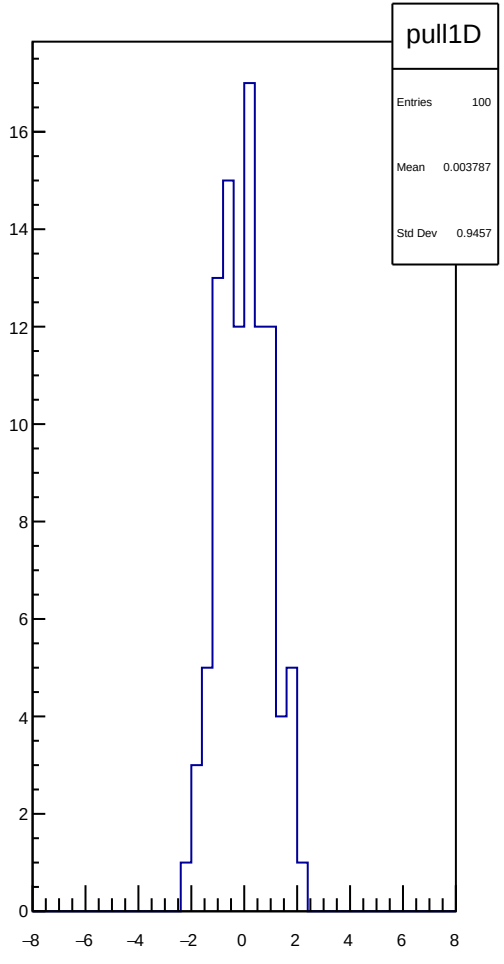

pull1D
Entries 100
Mean 0.003787
Std Dev 0.9457
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 2.034e+04 / 99
p0 1757 ± 1.273
2000
1900
1800
1700
1600
1500


asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 103.4 / 99
p0 −1.314e+04 ± 8631
pull
Entries 100
Mean 803.4
Std Dev 0
pull1D
Entries 100
Mean −0.006145
Std Dev 1.017


asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 9304 / 99
p0 8448 ± 6.103
9500
9000
8500
8000
7500
7000
6500


eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 89.43 / 99
p0 −5.859 ± 1800
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −752.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 100
Mean 0.003787
Std Dev 0.9457
16
14
12
10
8
6
4
2
0
−8
−6
−4
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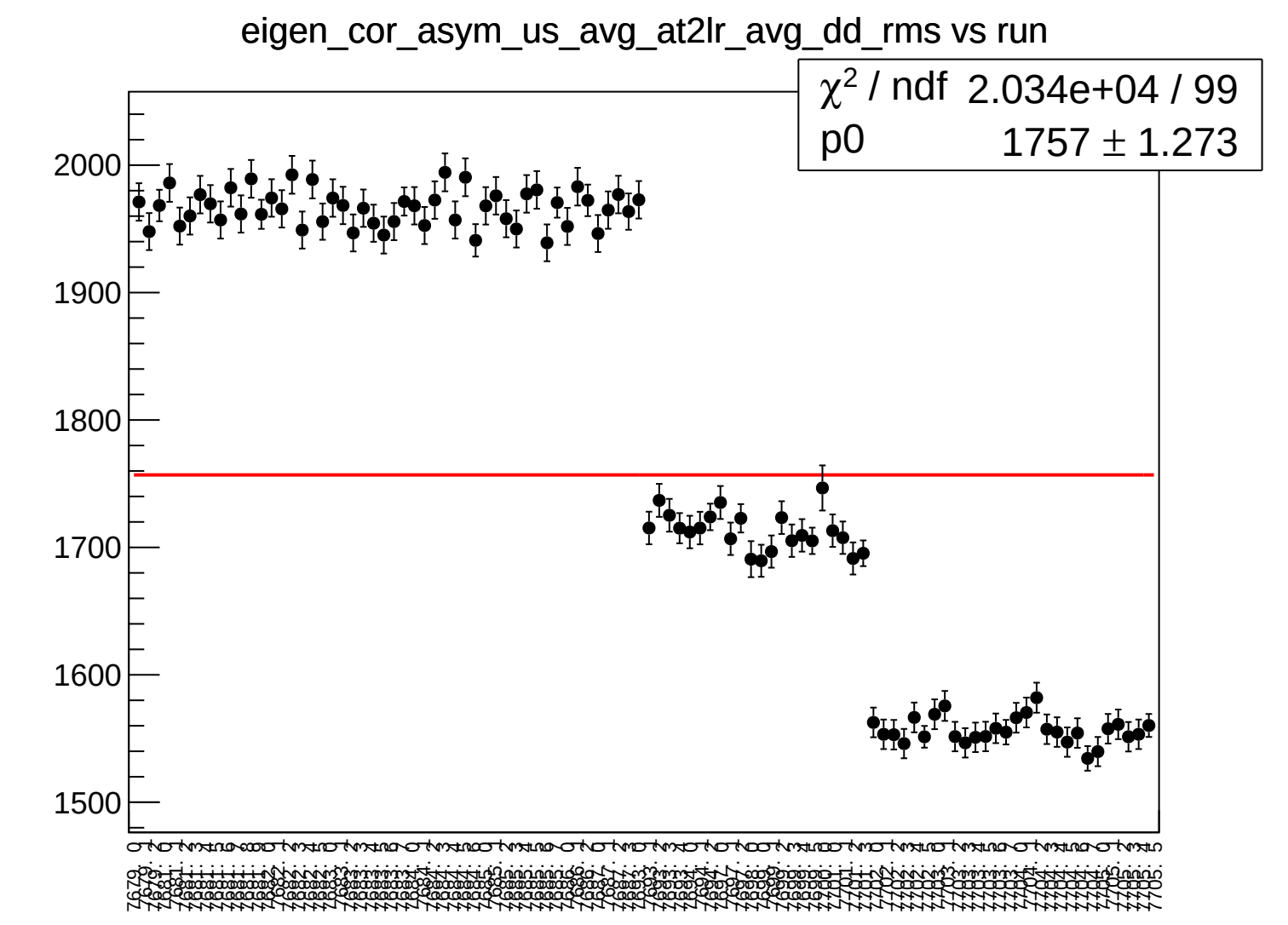
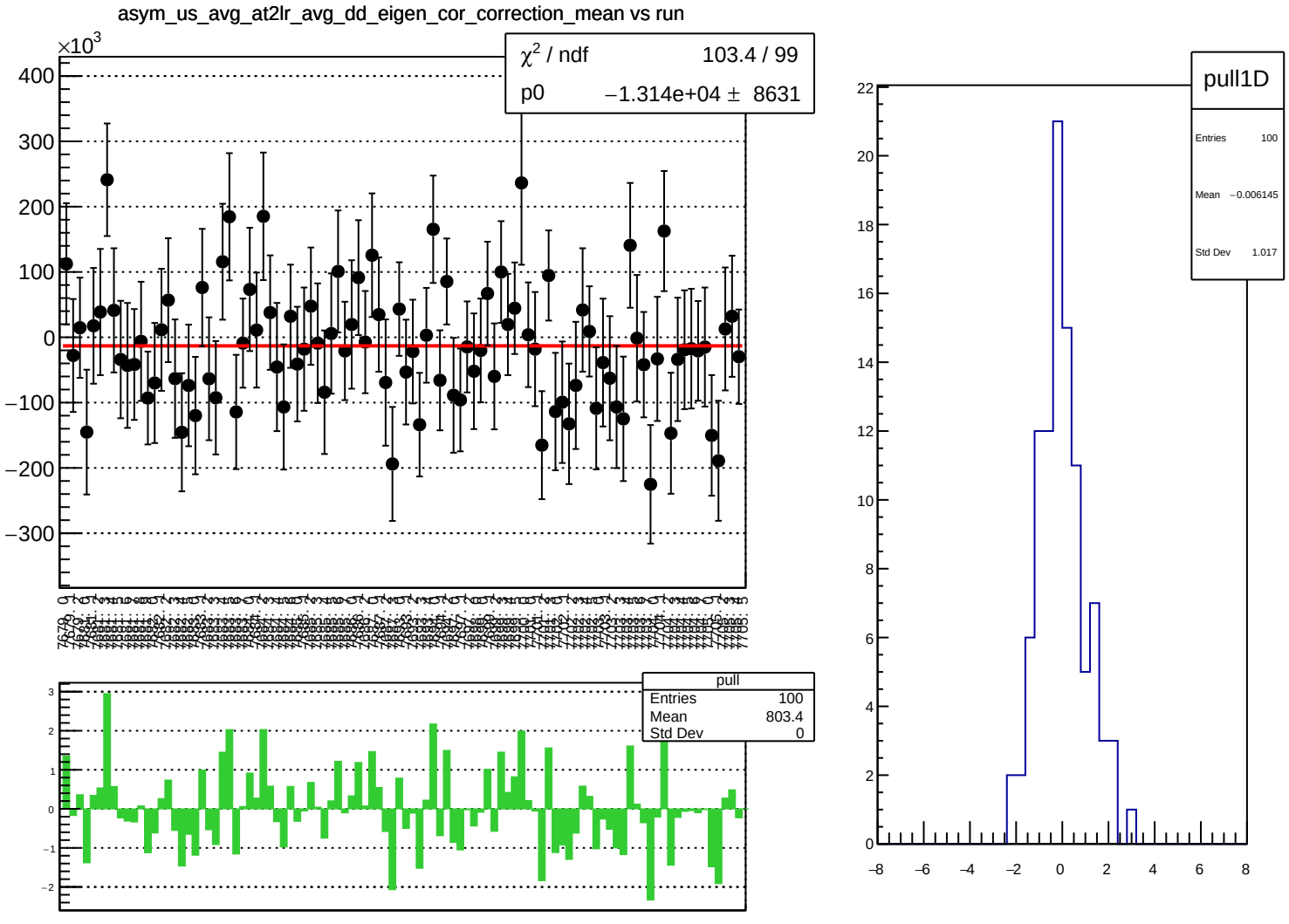
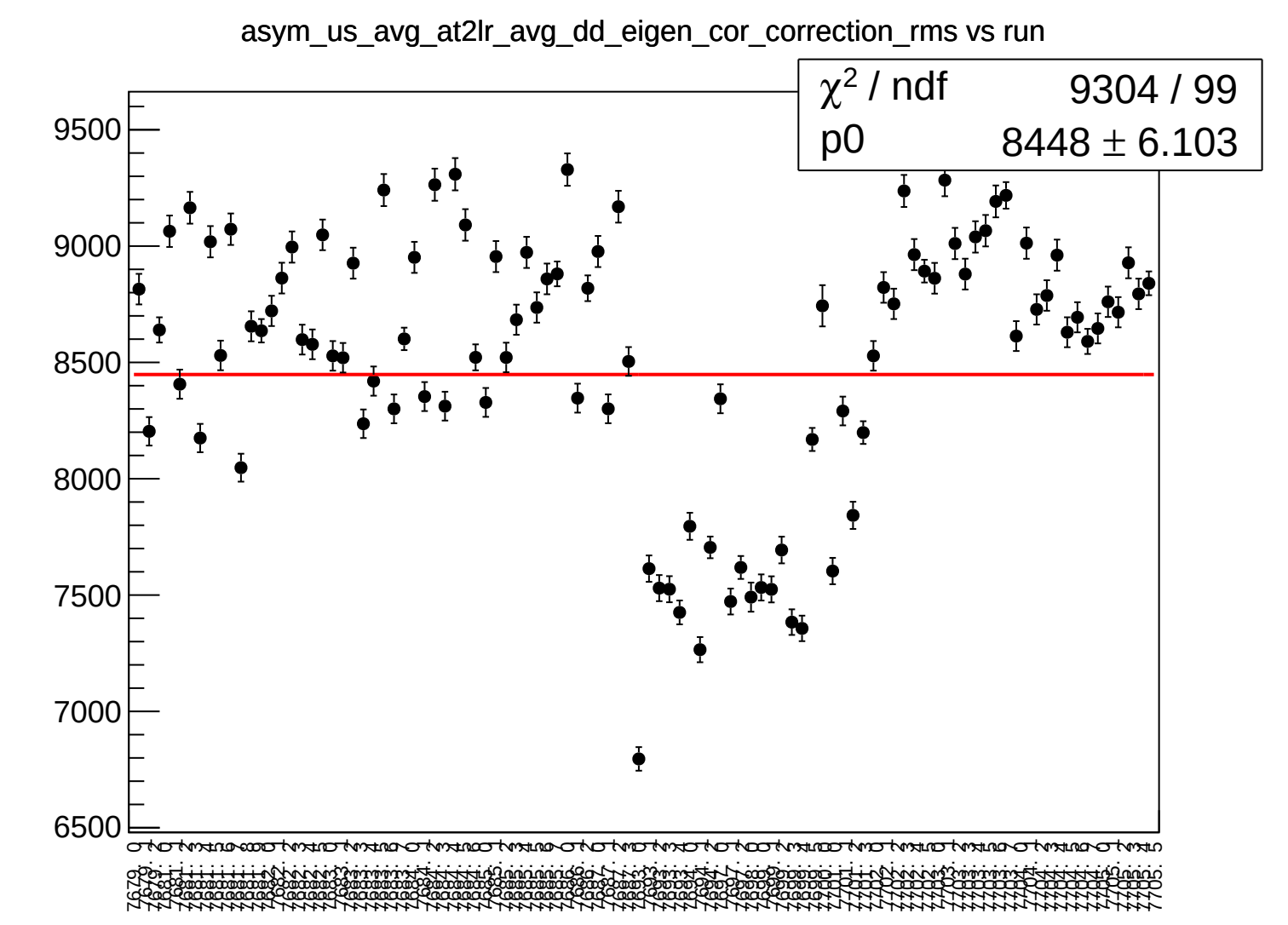
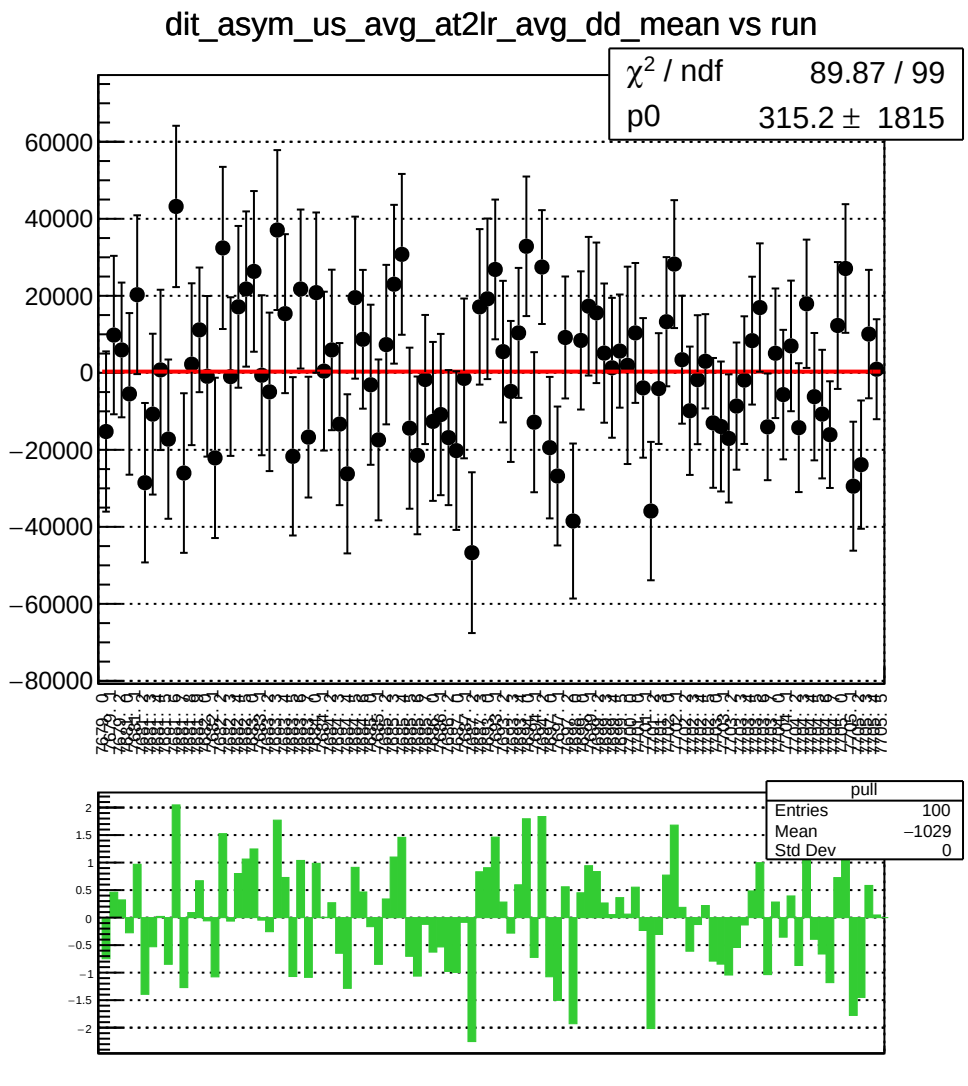
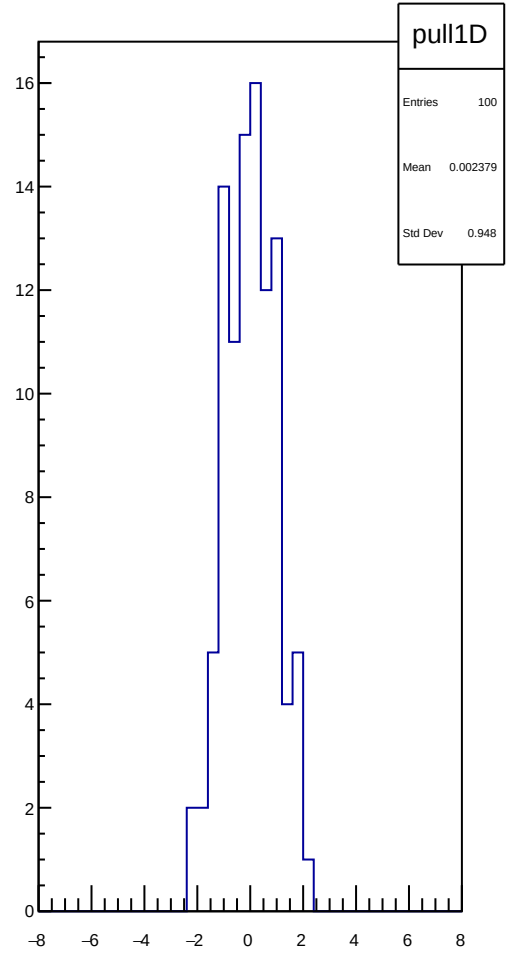
0
2
4
6
8

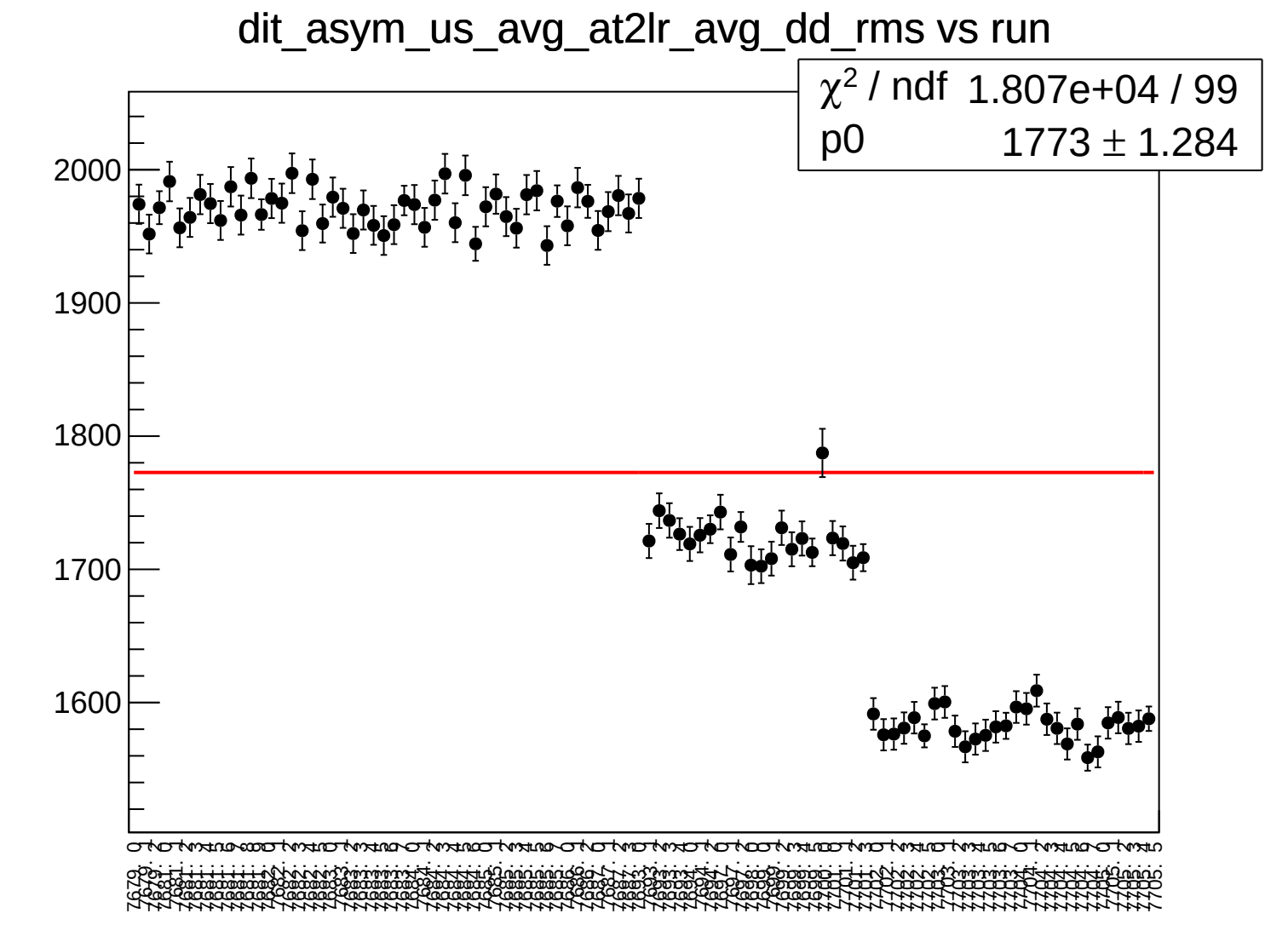

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 2.034e+04 / 99
p0 1757 ± 1.273
2000
1900
1800
1700
1600
1500

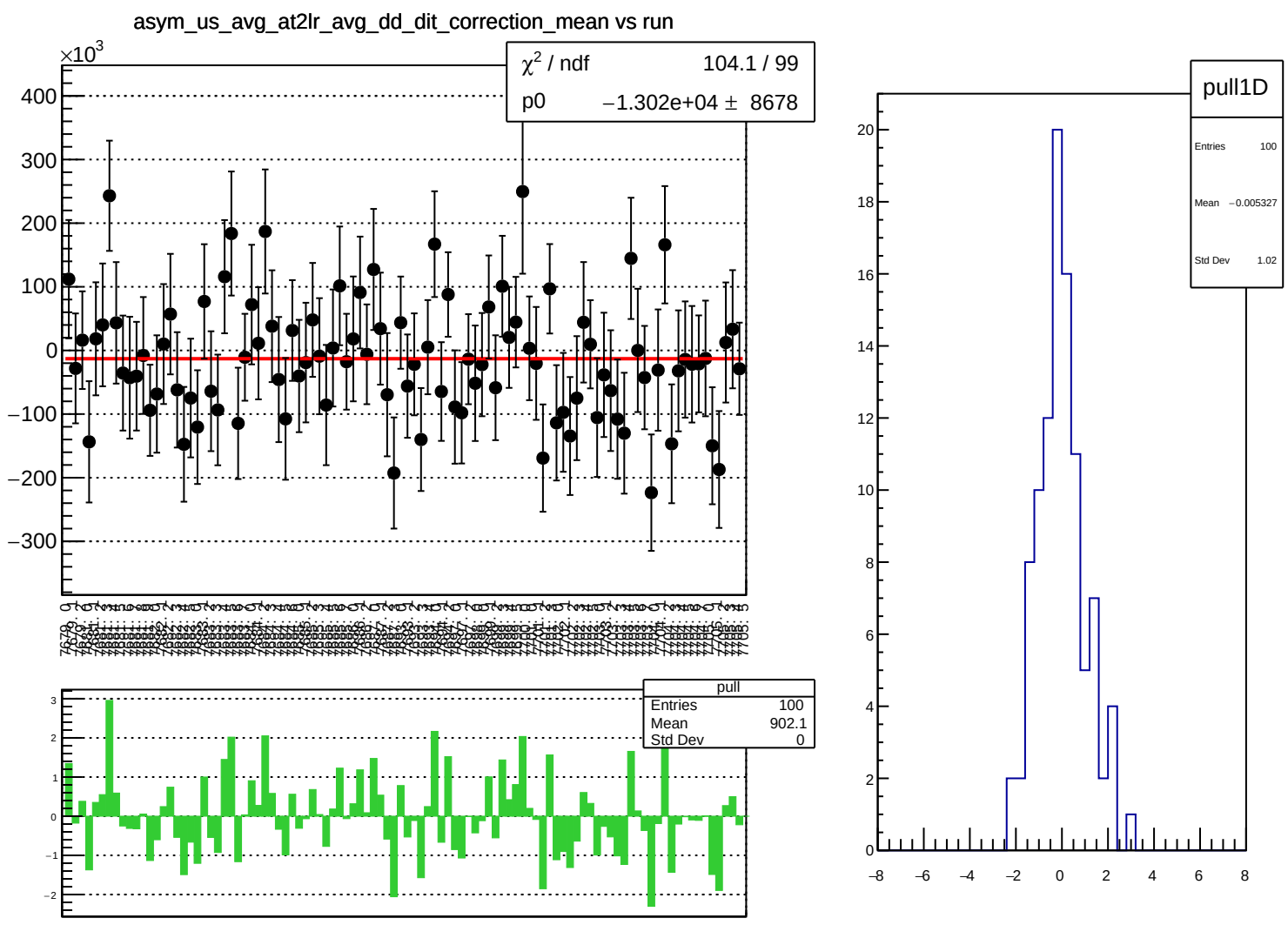

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 103.4 / 99
p0 −1.314e+04 ± 8631
pull
Entries 100
Mean 803.4
Std Dev 0
pull1D
Entries 100
Mean −0.006145
Std Dev 1.017

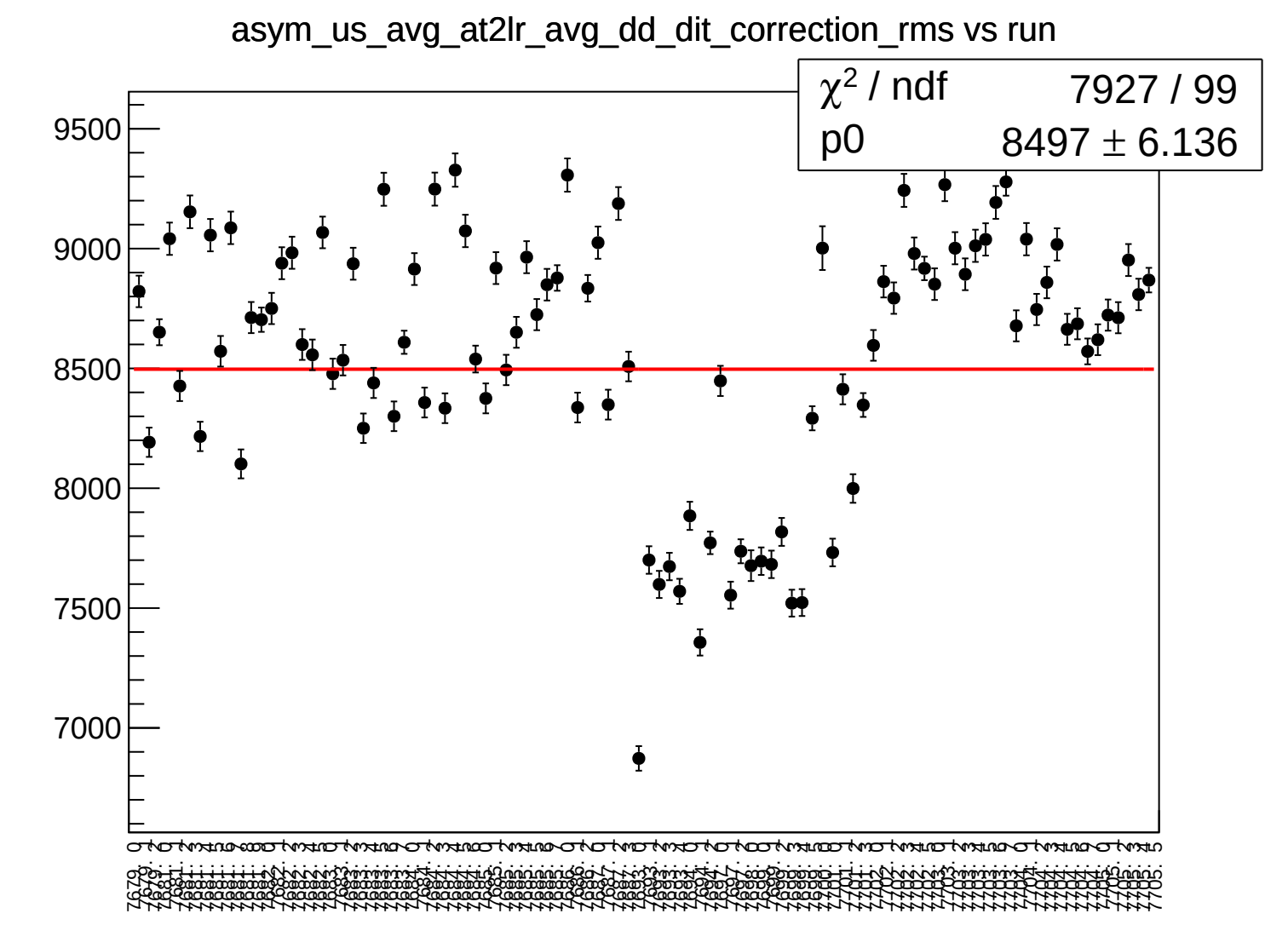

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 9304 / 99
p0 8448 ± 6.103
9500
9000
8500
8000
7500
7000
6500

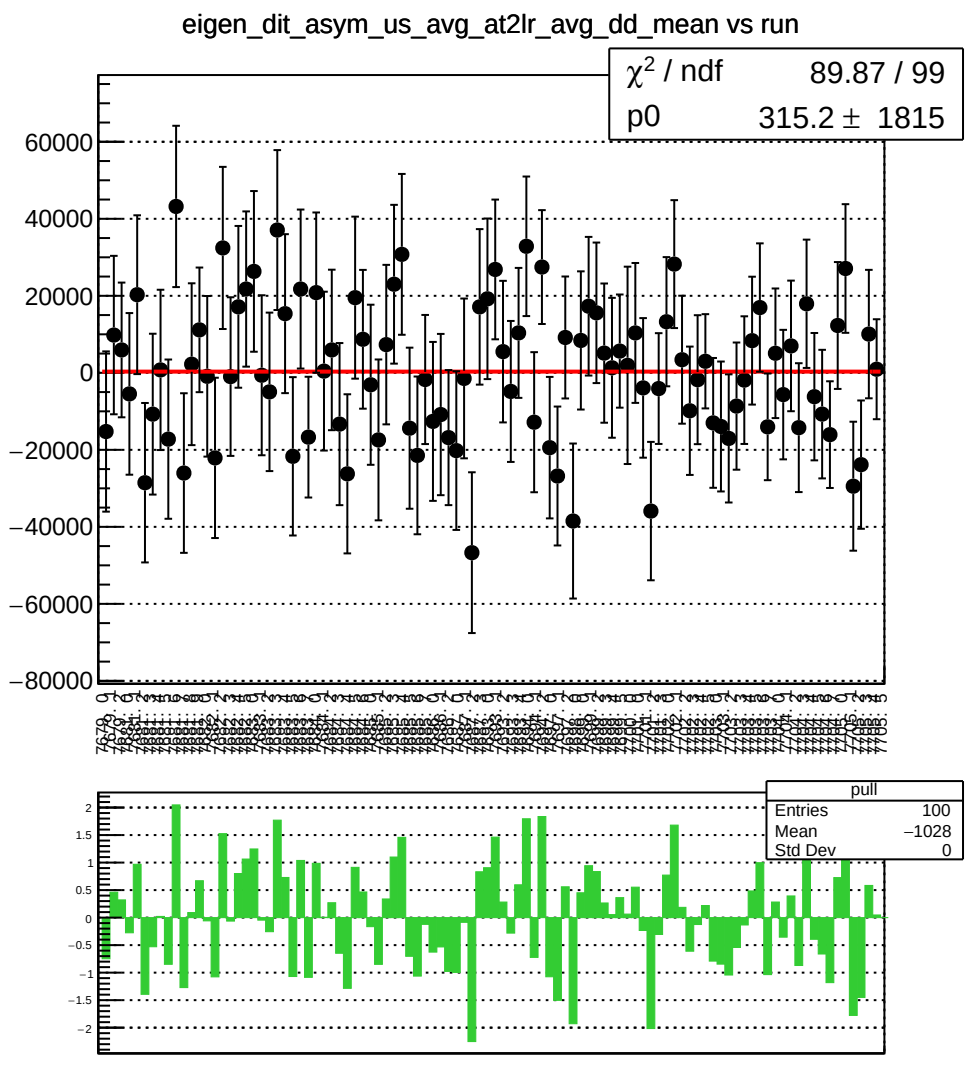

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 89.87 / 99
p0 315.2 ± 1815
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −1029
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

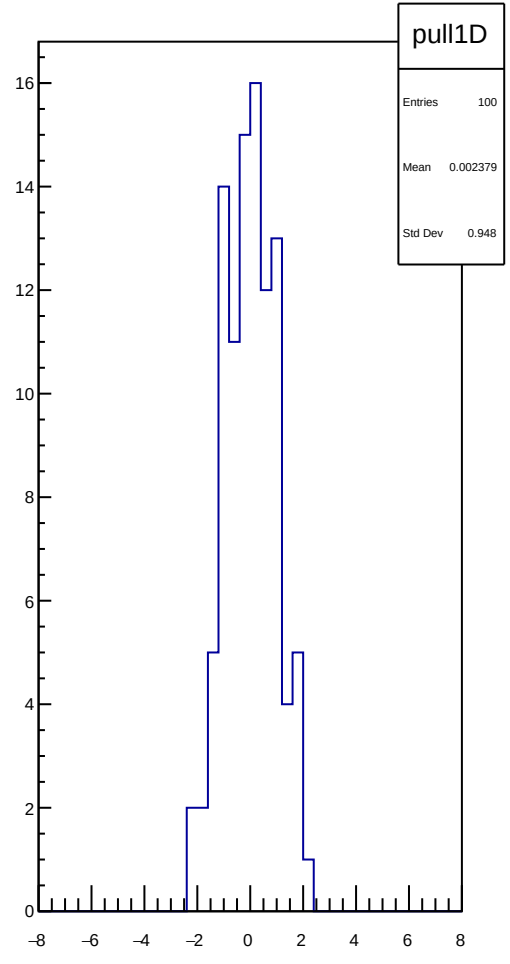

pull1D
Entries 100
Mean 0.002379
Std Dev 0.948
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

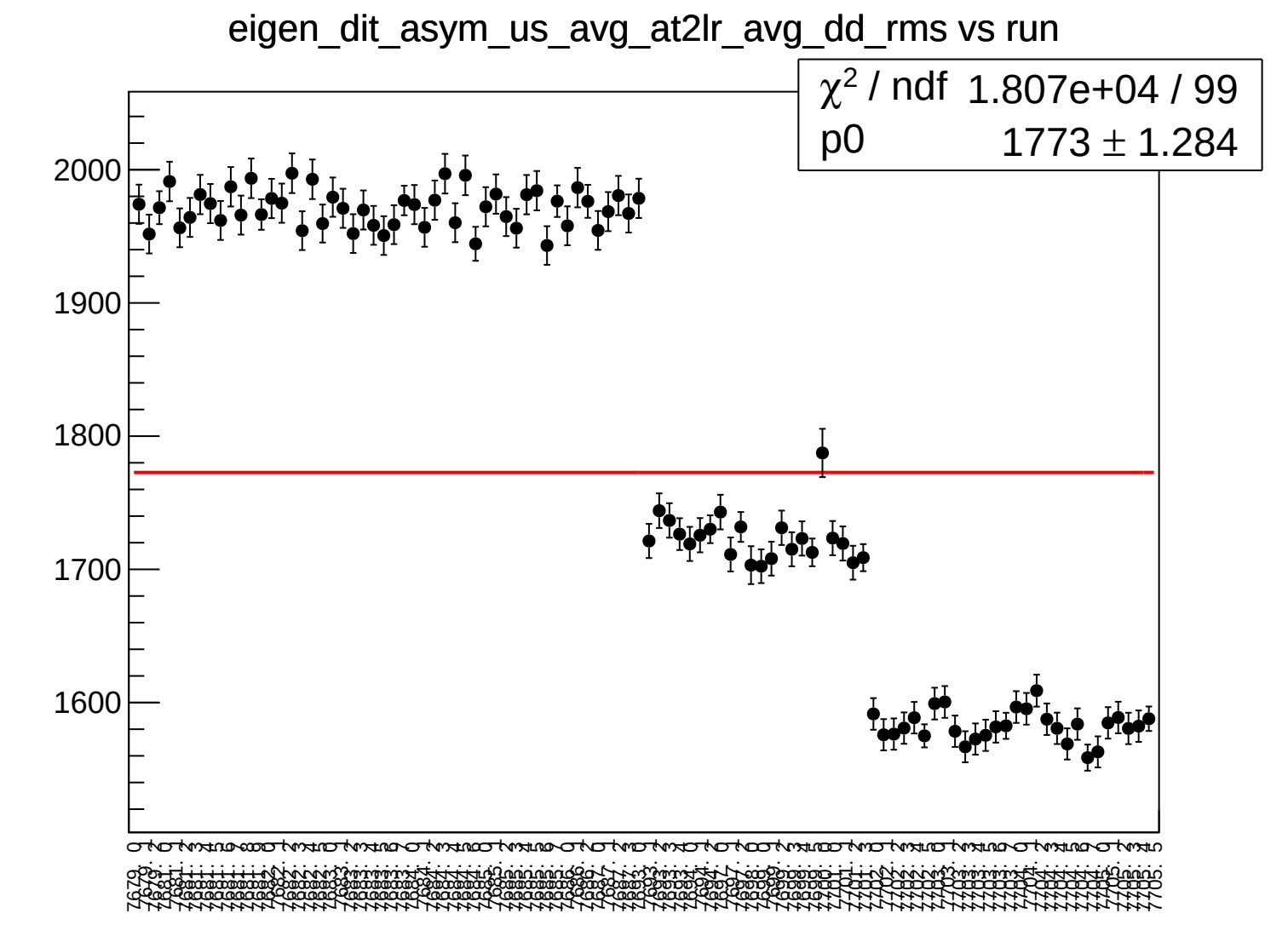

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1.807e+04 / 99
p0 1773 ± 1.284
2000
1900
1800
1700
1600

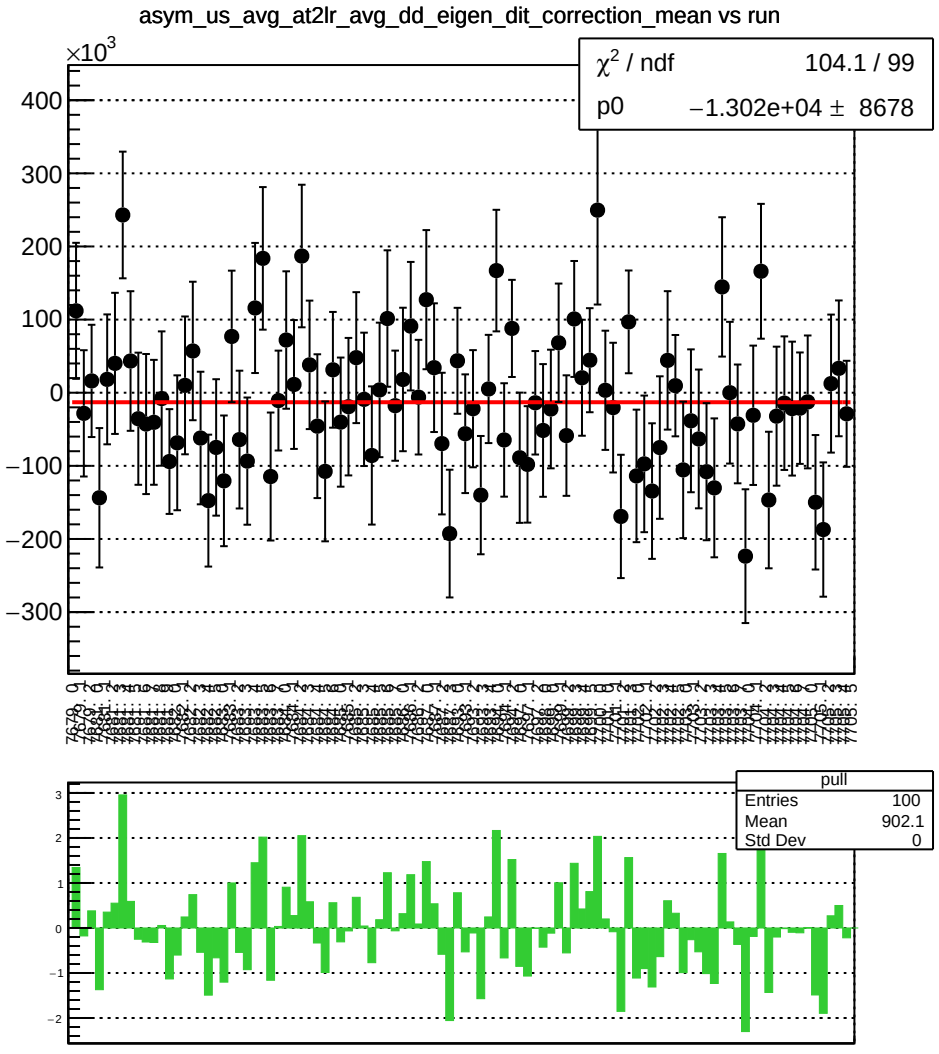

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 104.1 / 99
p0 −1.302e+04 ± 8678
pull
Entries 100
Mean 902.1
Std Dev 0
pull1D
Entries 100
Mean −0.005327
Std Dev 1.02

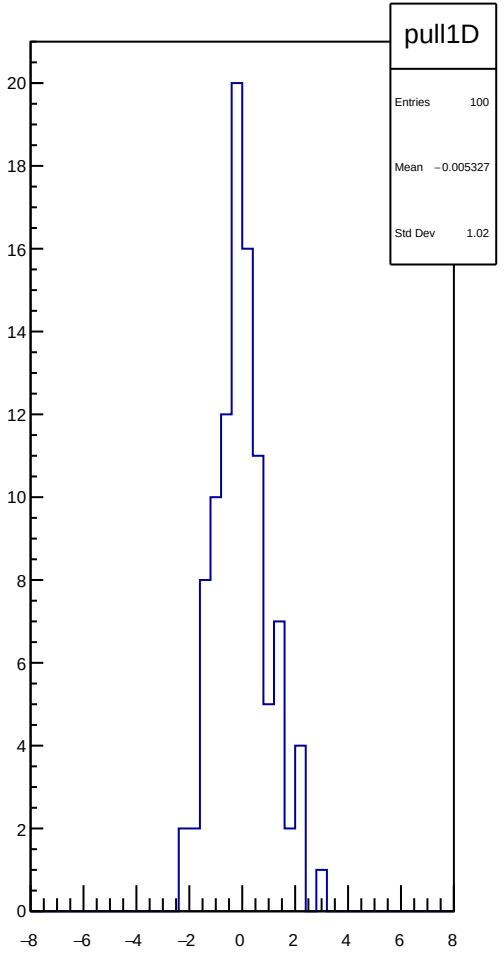

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 7927 / 99
p0 8497 ± 6.136
9500
9000
8500
8000
7500
7000

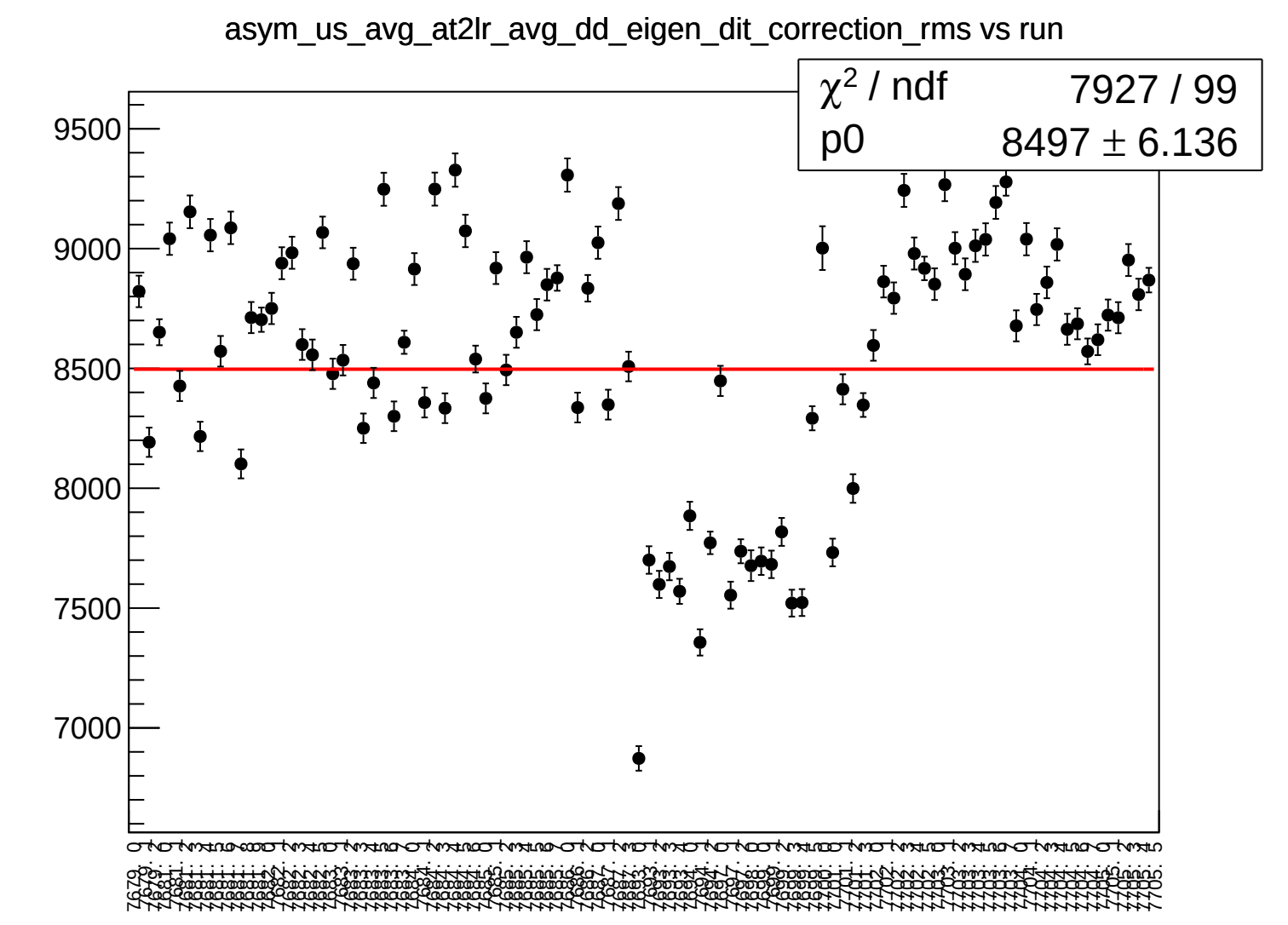

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 89.87 / 99
p0 315.2 ± 1815
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −1028
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

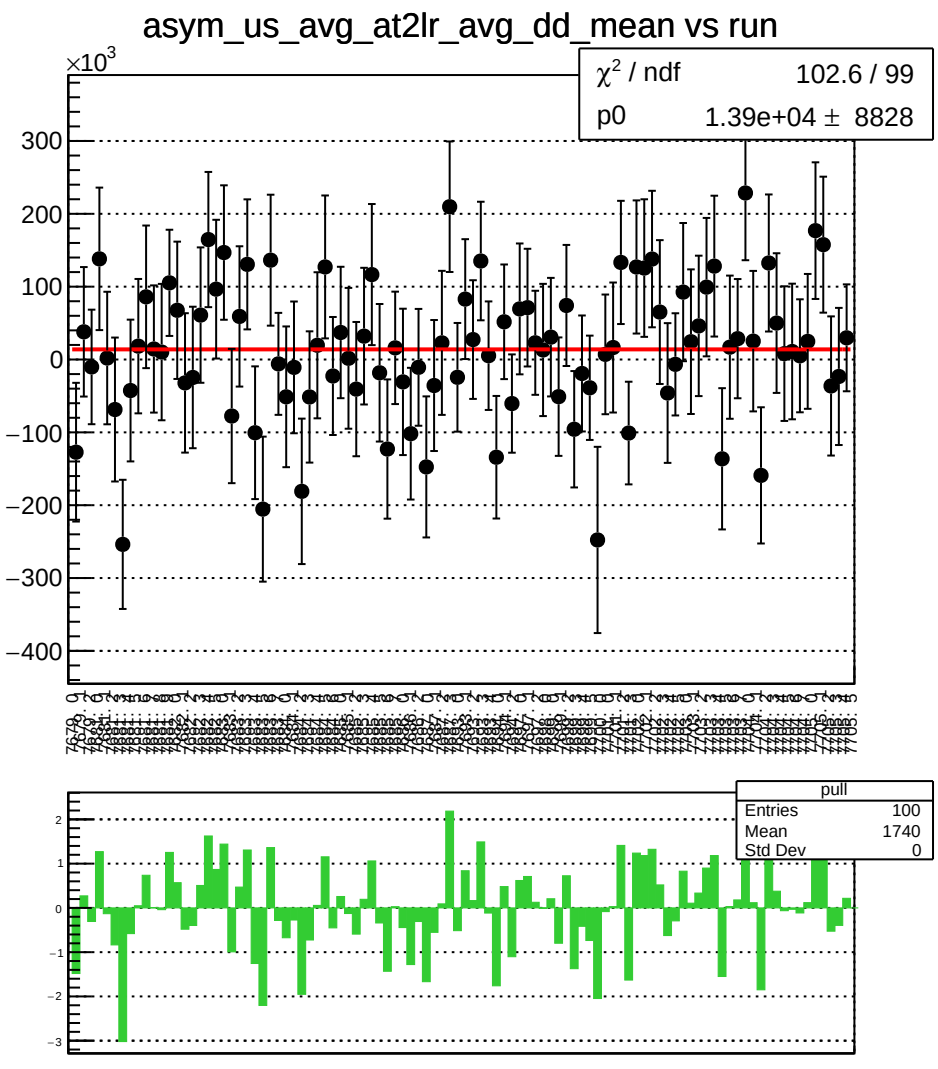

pull1D
Entries 100
Mean 0.002379
Std Dev 0.948
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

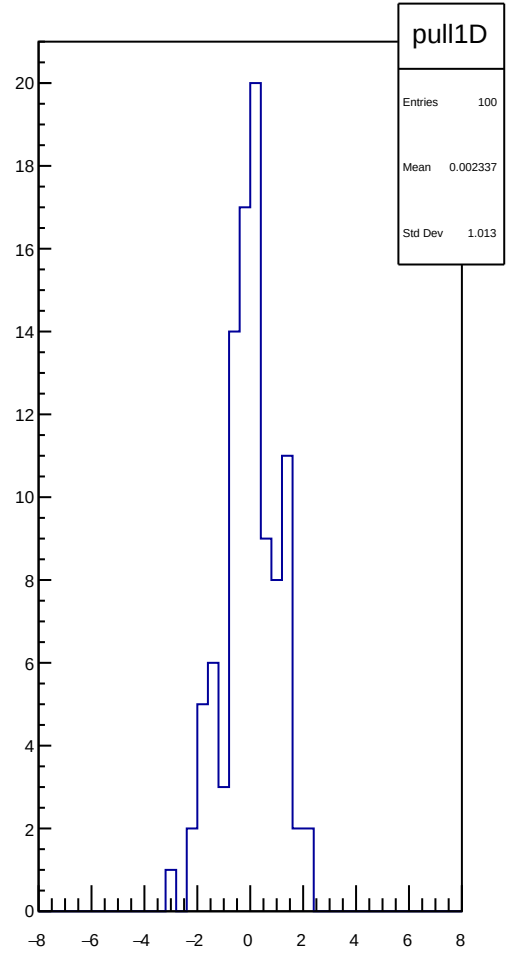

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1.807e+04 / 99
p0 1773 ± 1.284
2000
1900
1800
1700
1600

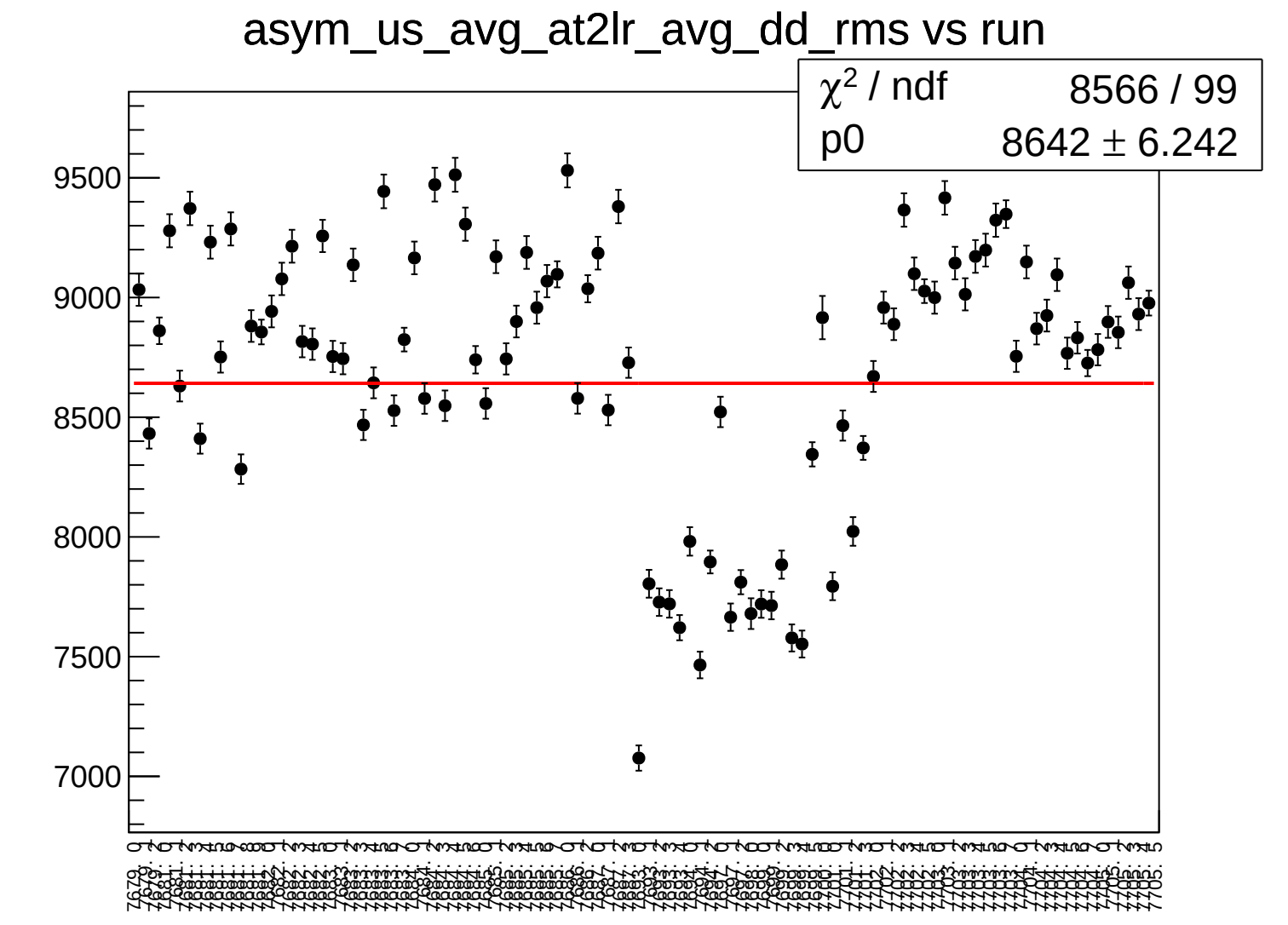

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 104.1 / 99
p0 −1.302e+04 ± 8678
pull
Entries 100
Mean 902.1
Std Dev 0

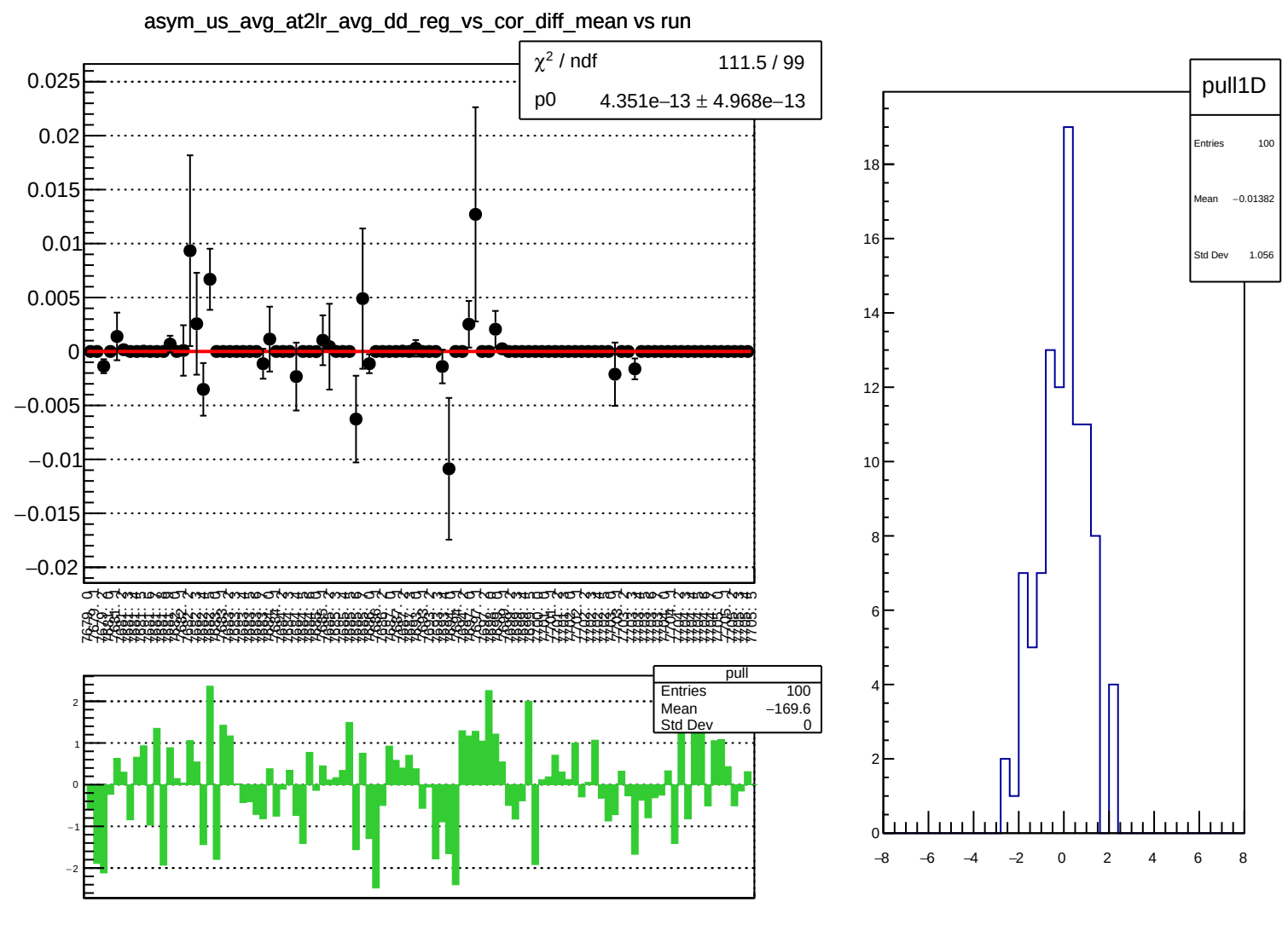

pull1D
Entries 100
Mean −0.005327
Std Dev 1.02

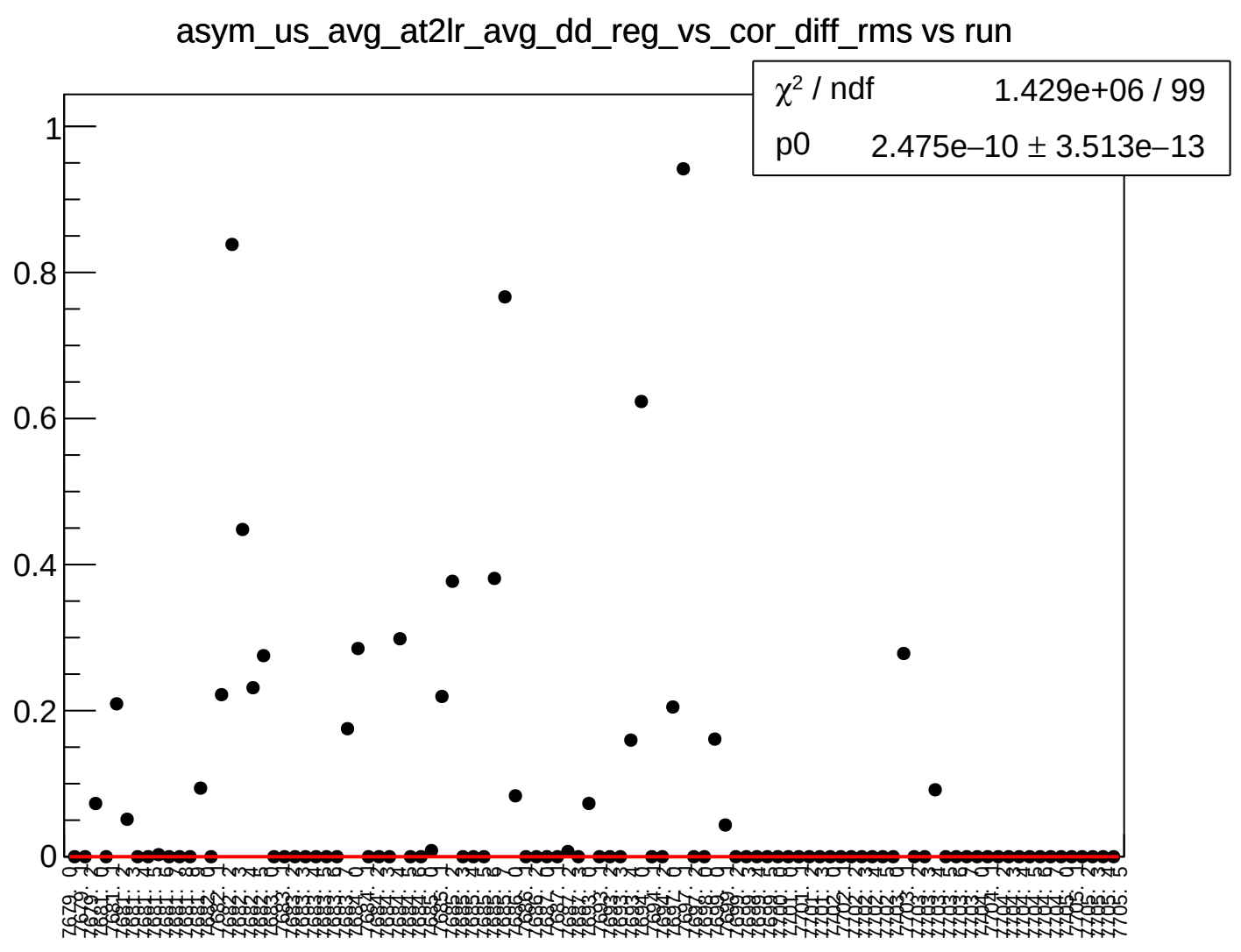

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 7927 / 99
p0 8497 ± 6.136
9500
9000
8500
8000
7500
7000

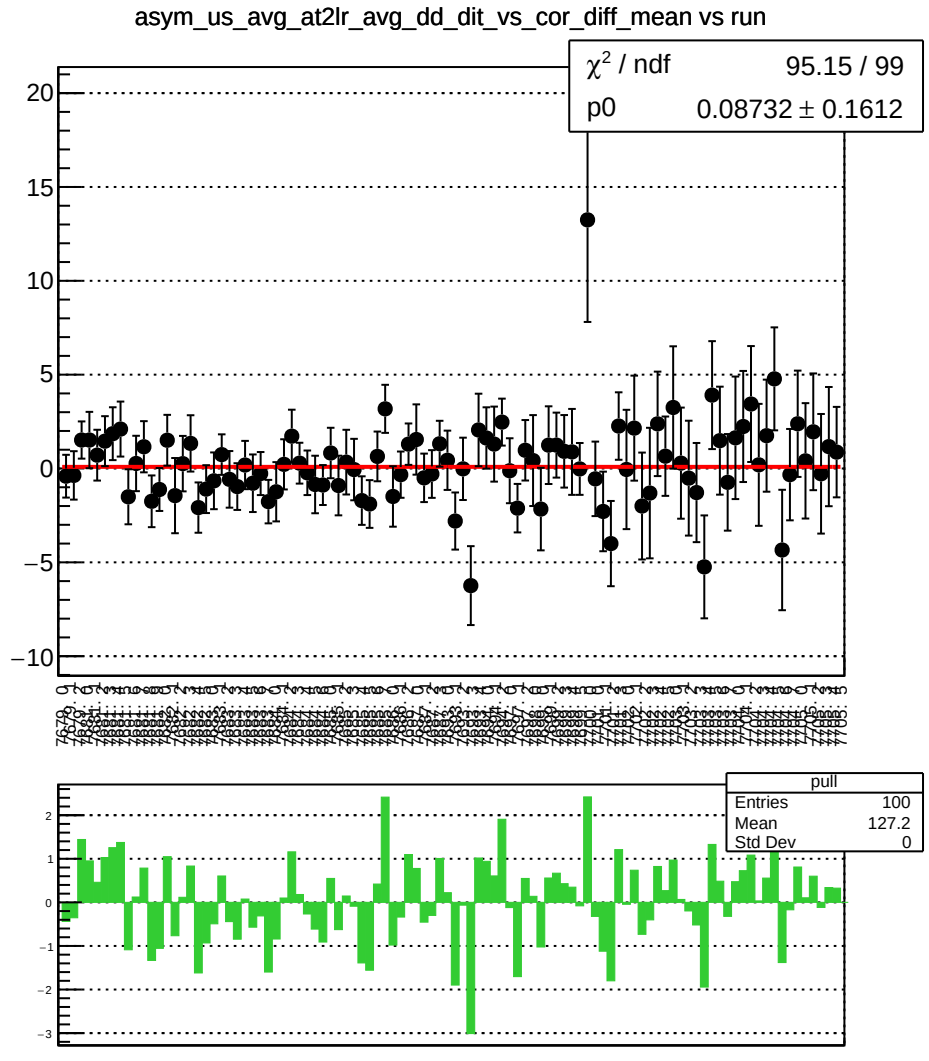

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 102.6 / 99
p0 1.39e+04 ± 8828
300
200
100
0
−100
−200
−300
−400
pull
Entries 100
Mean 1740
Std Dev 0
2
1
0
−1
−2
−3

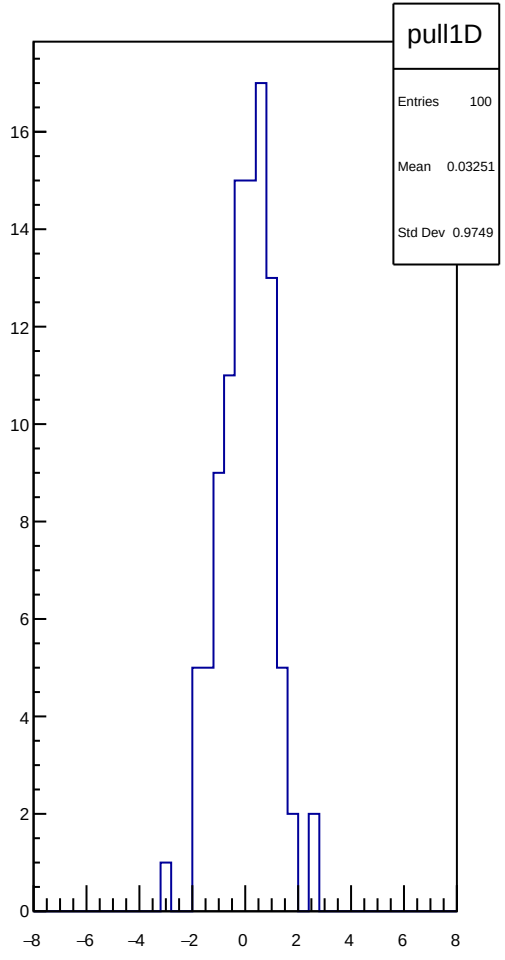

pull1D
Entries 100
Mean 0.002337
Std Dev 1.013
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

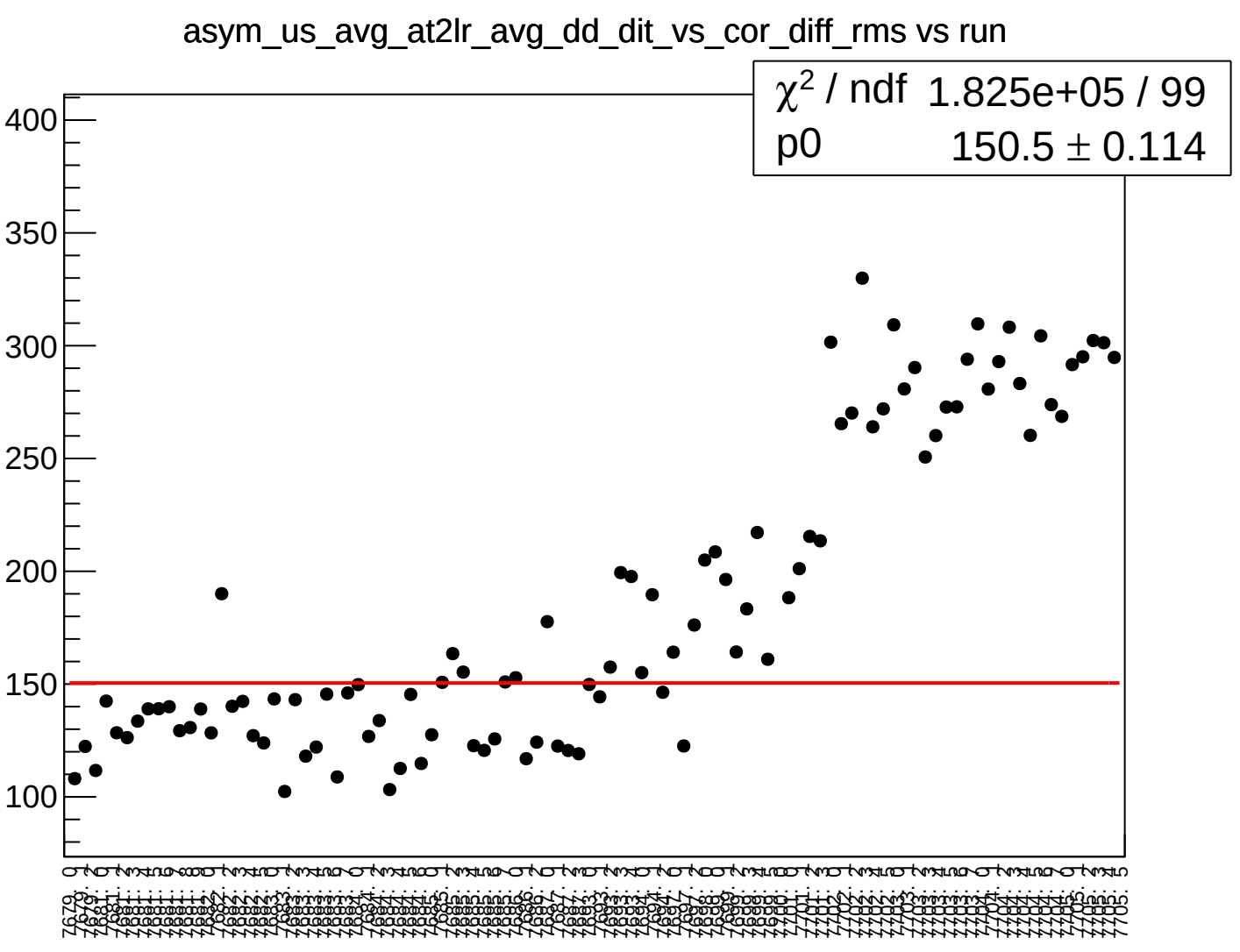

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 8566 / 99
p0 8642 ± 6.242
9500
9000
8500
8000
7500
7000

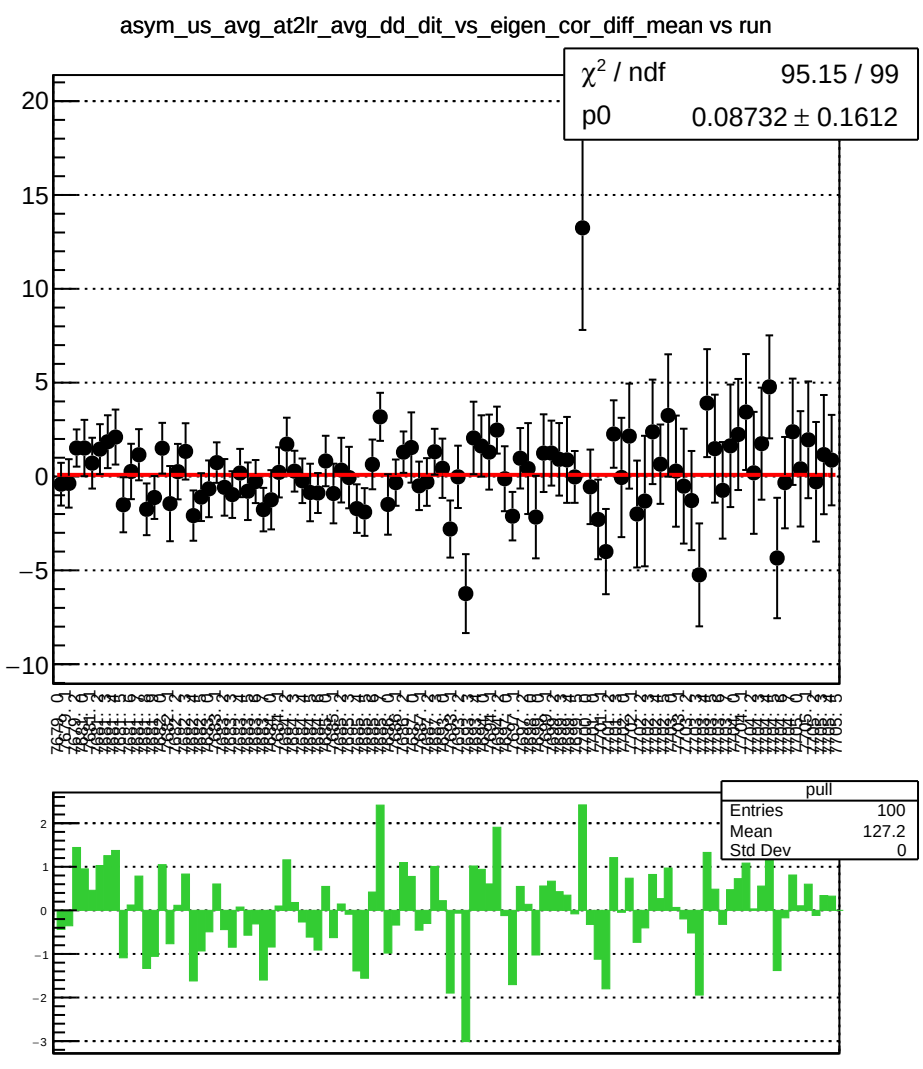

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 111.5 / 99
p0 4.351e−13 ± 4.968e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 100
Mean −169.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.01382
Std Dev 1.056
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

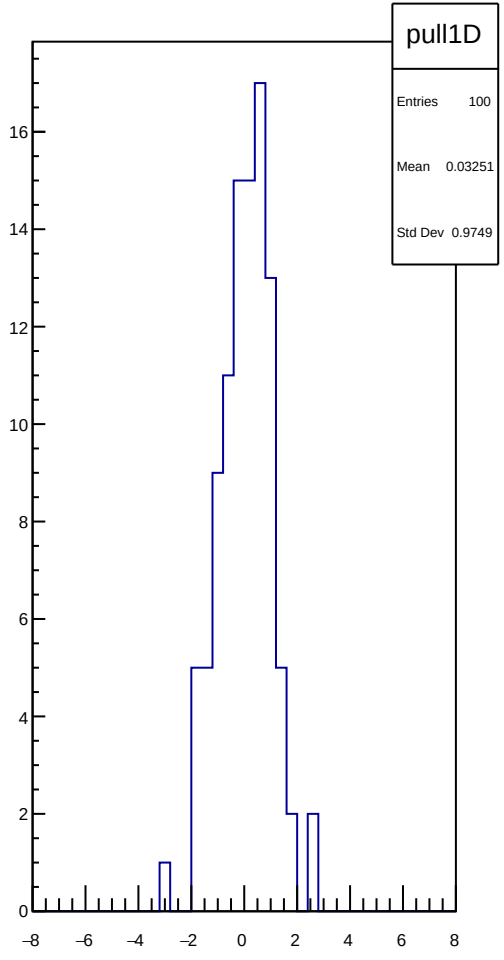

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.429e+06 / 99
p0 2.475e−10 ± 3.513e−13
1
0.8
0.6
0.4
0.2
0

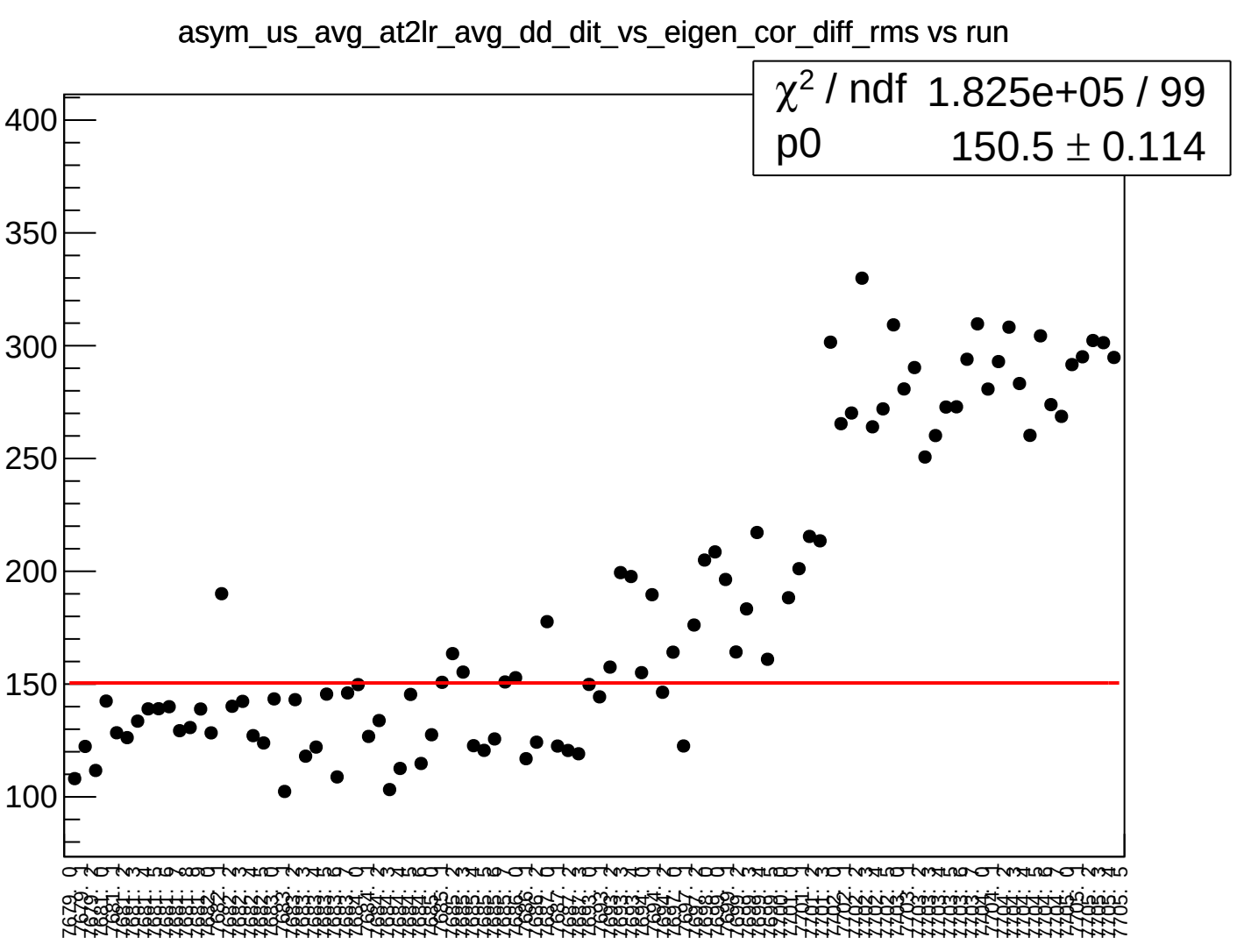

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.15 / 99
p0 0.08732 ± 0.1612
pull
Entries 100
Mean 127.2
Std Dev 0

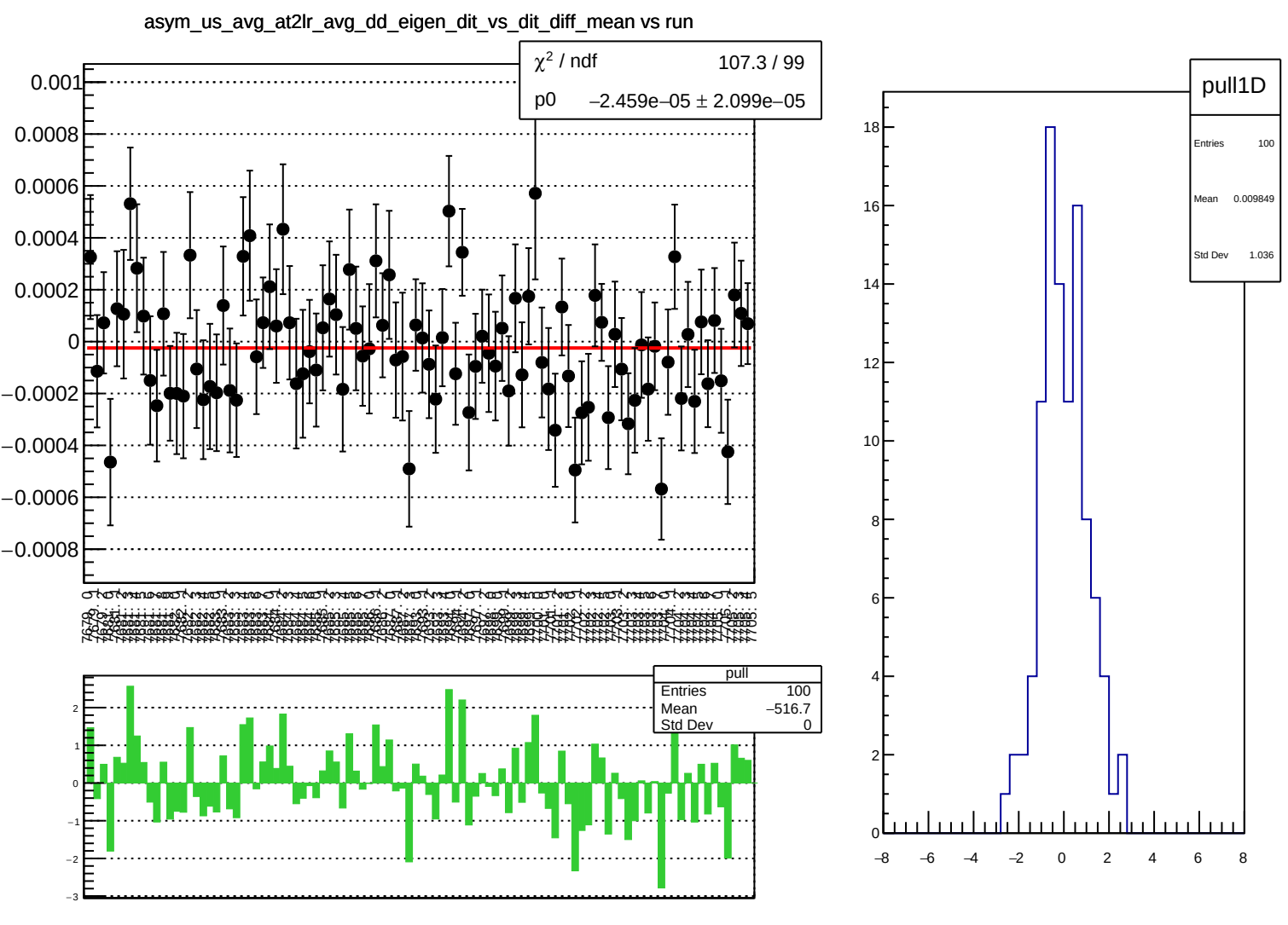

pull1D
Entries 100
Mean 0.03251
Std Dev 0.9749

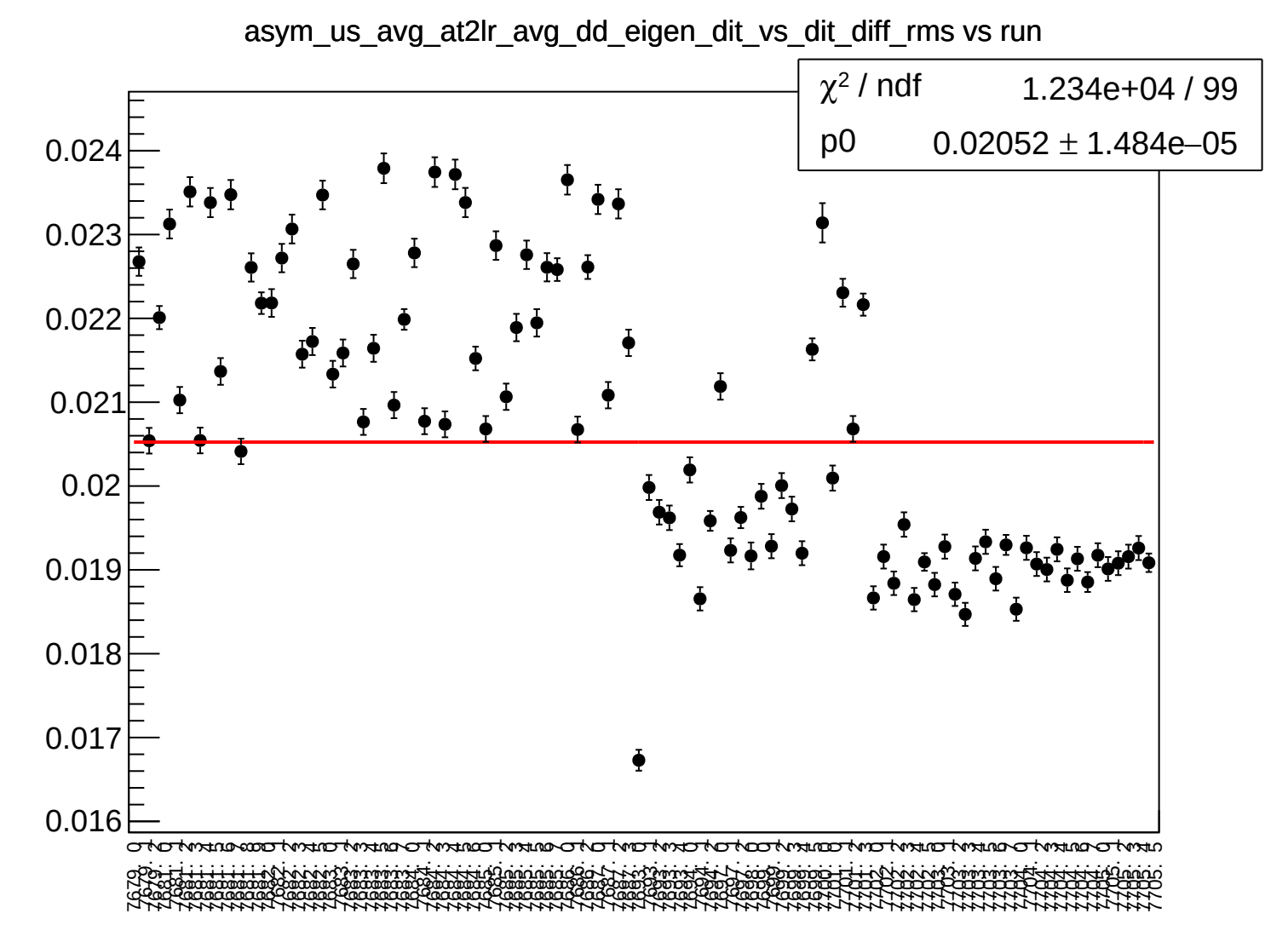

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.825e+05 / 99
p0 150.5 ± 0.114
400
350
300
250
200
150
100

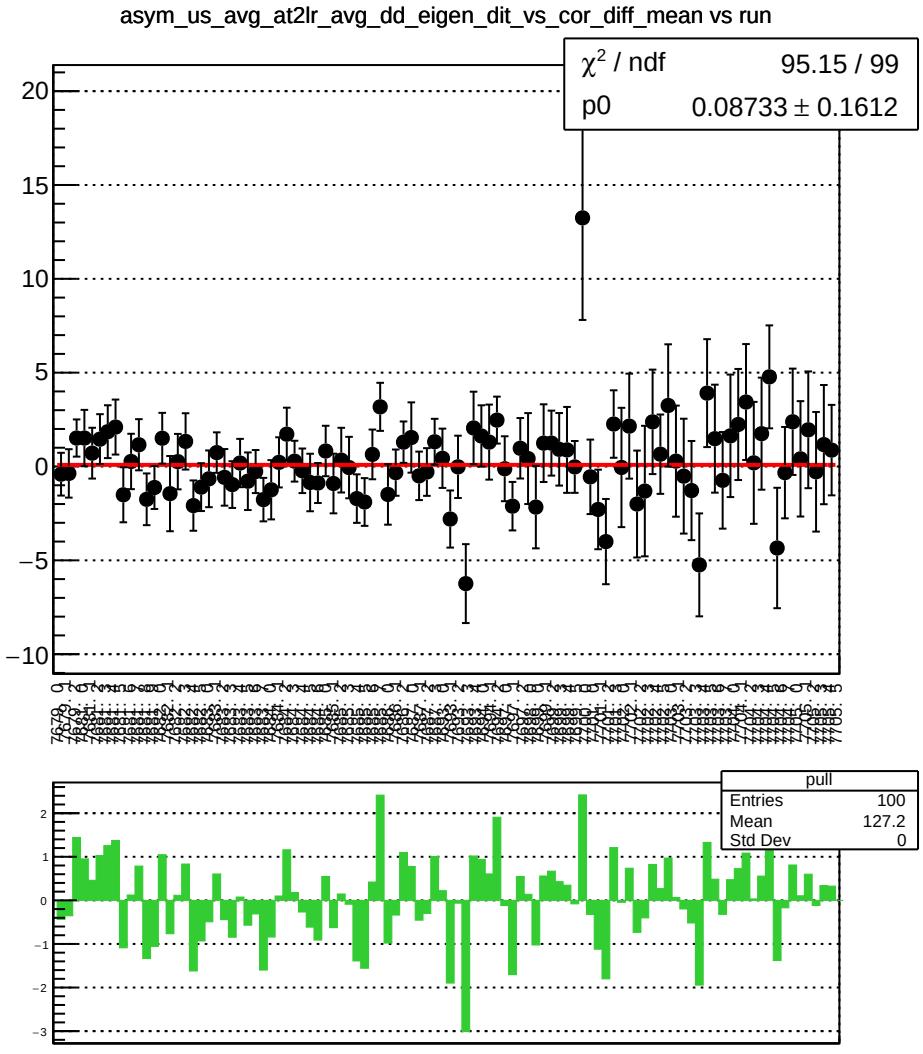

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.15 / 99
p0 0.08732 ± 0.1612
pull
Entries 100
Mean 127.2
Std Dev 0

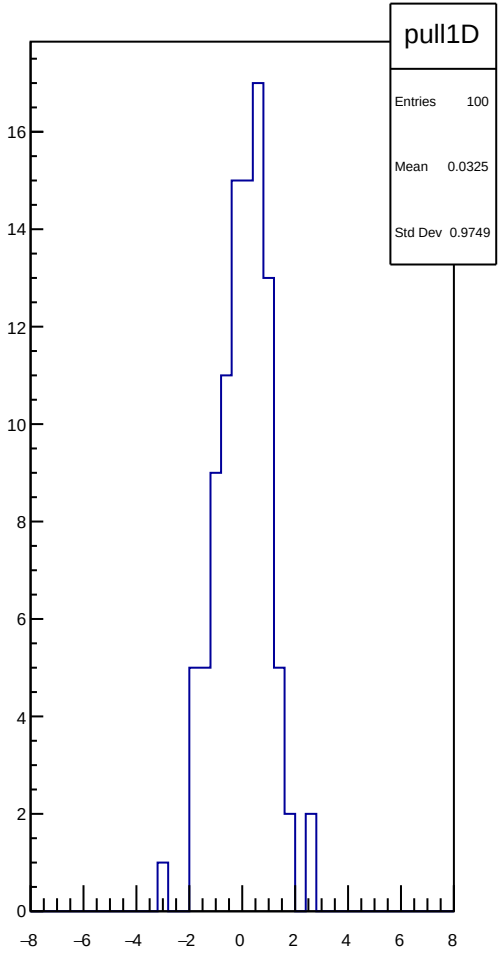

pull1D
Entries 100
Mean 0.03251
Std Dev 0.9749

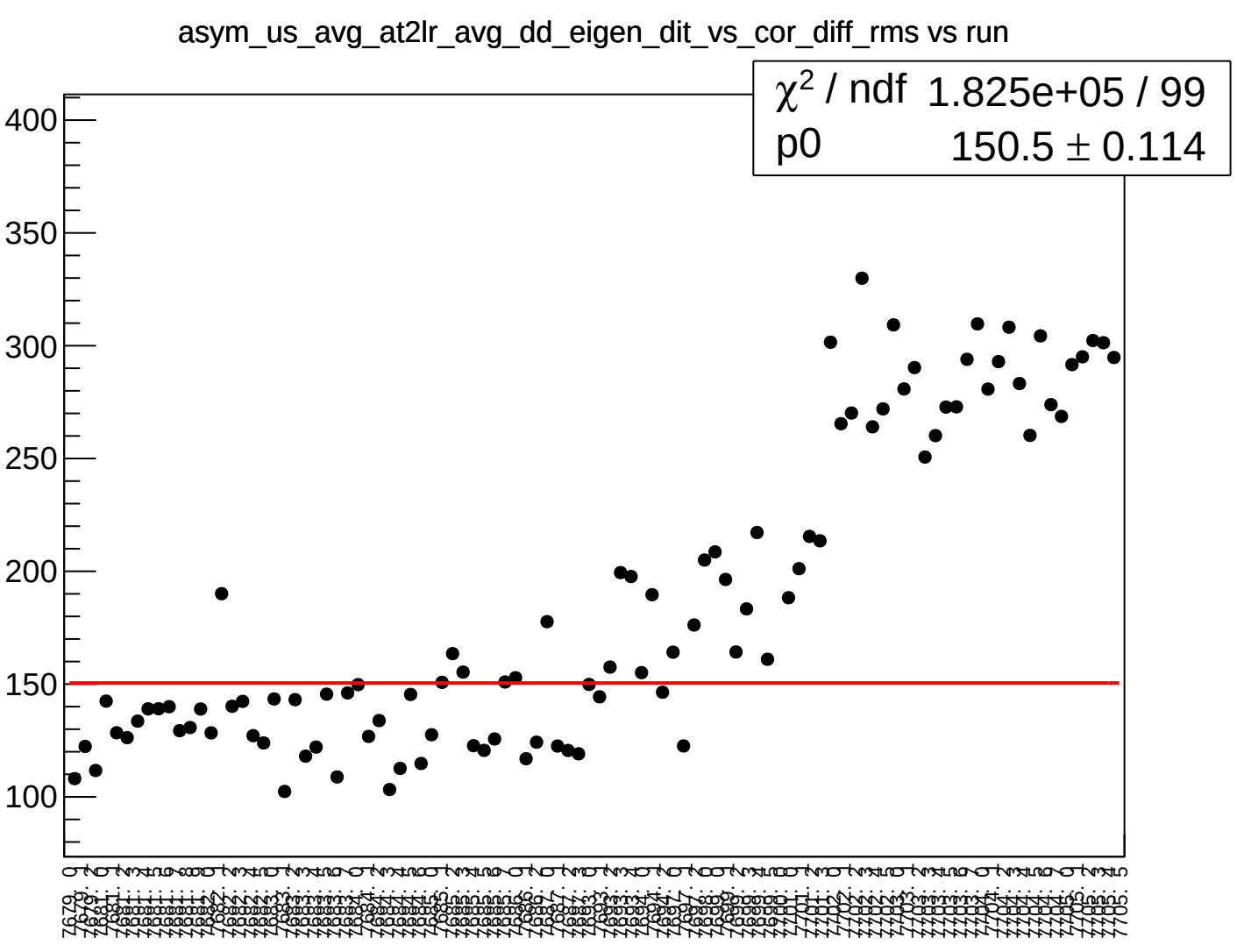

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.825e+05 / 99
p0 150.5 ± 0.114
400
350
300
250
200
150
100

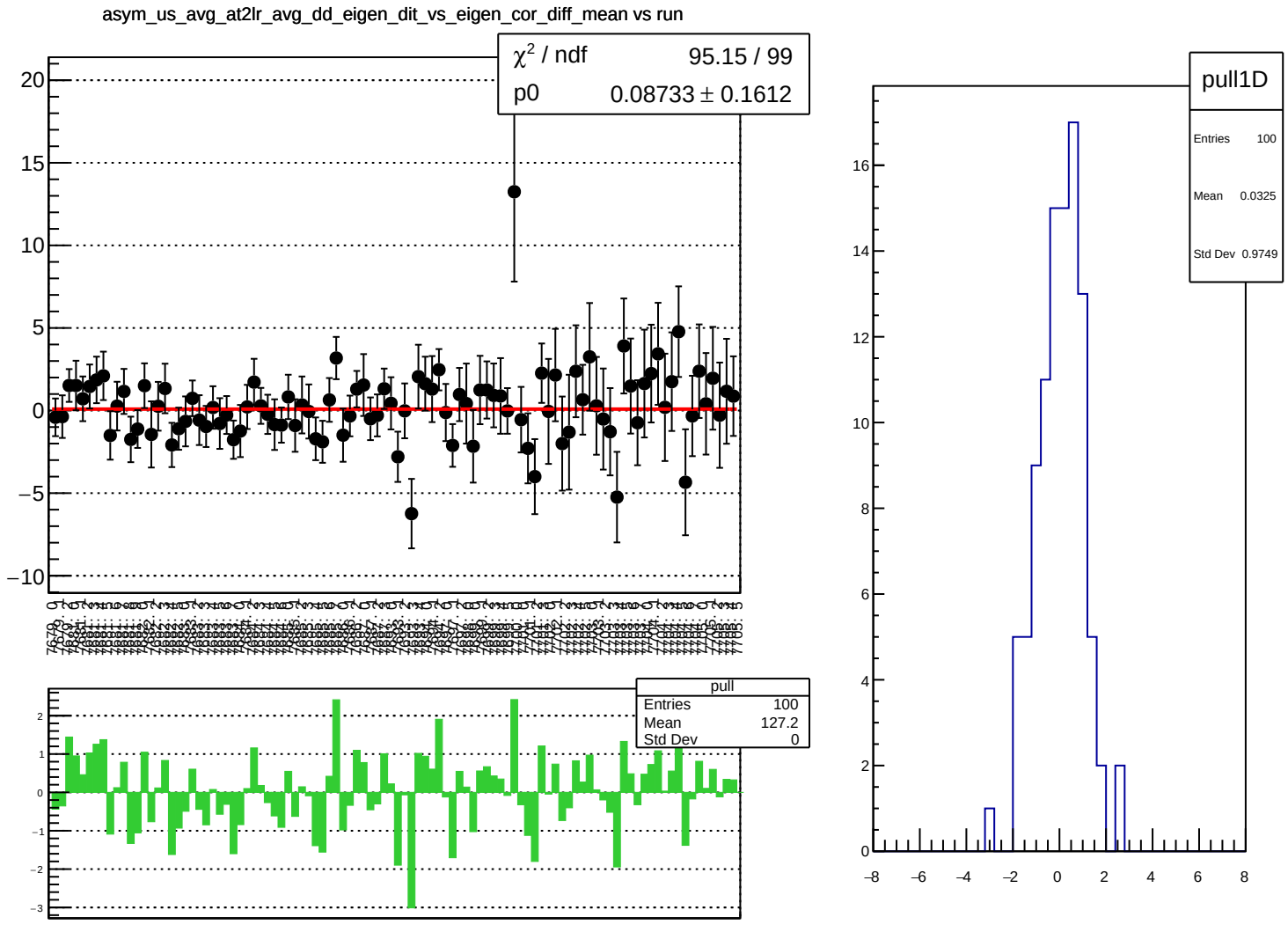

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 107.3 / 99
p0 −2.459e−05 ± 2.099e−05
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 100
Mean −516.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean 0.009849
Std Dev 1.036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

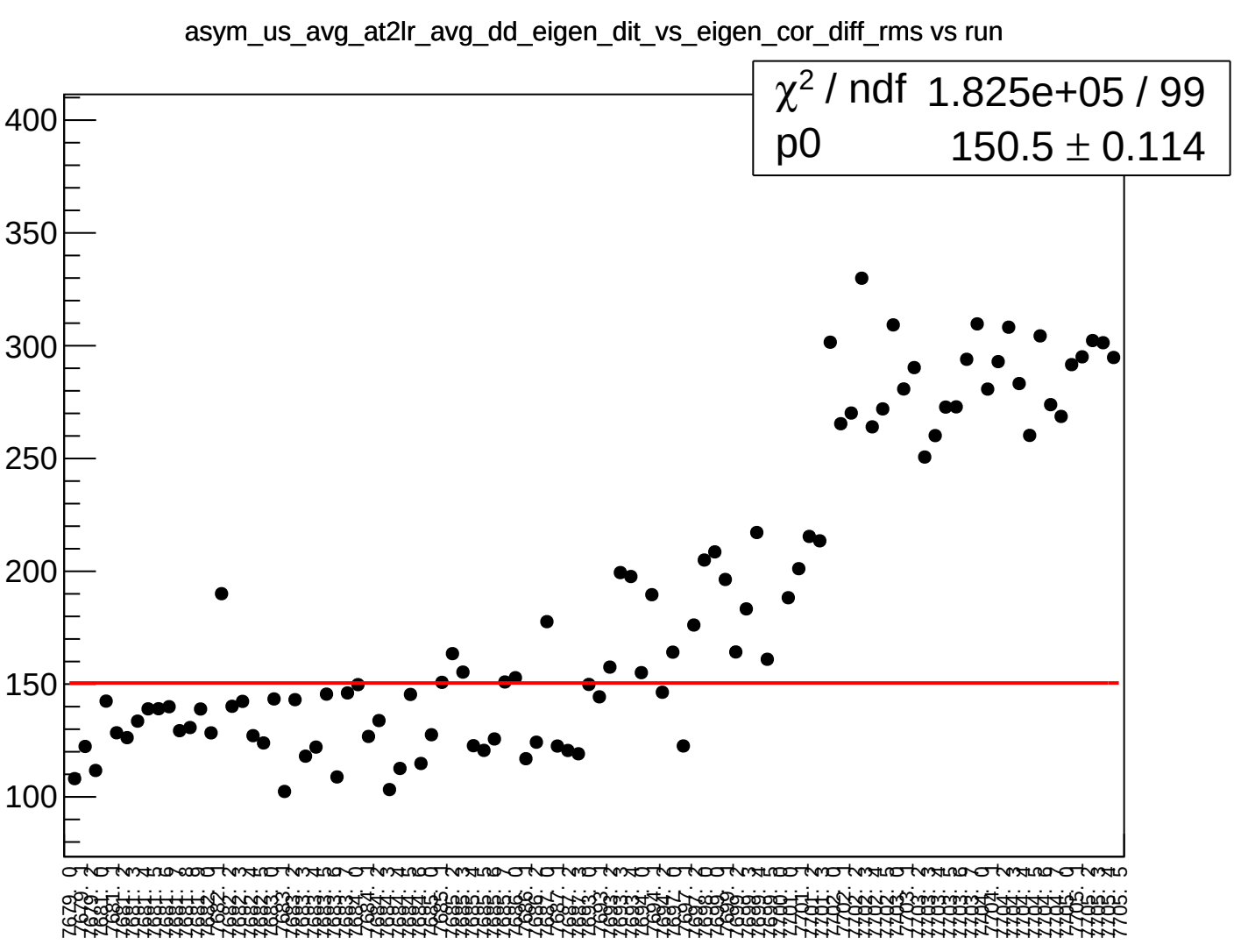

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.234e+04 / 99
p0 0.02052 ± 1.484e−05
0.024
0.023
0.022
0.021
0.02
0.019
0.018
0.017
0.016

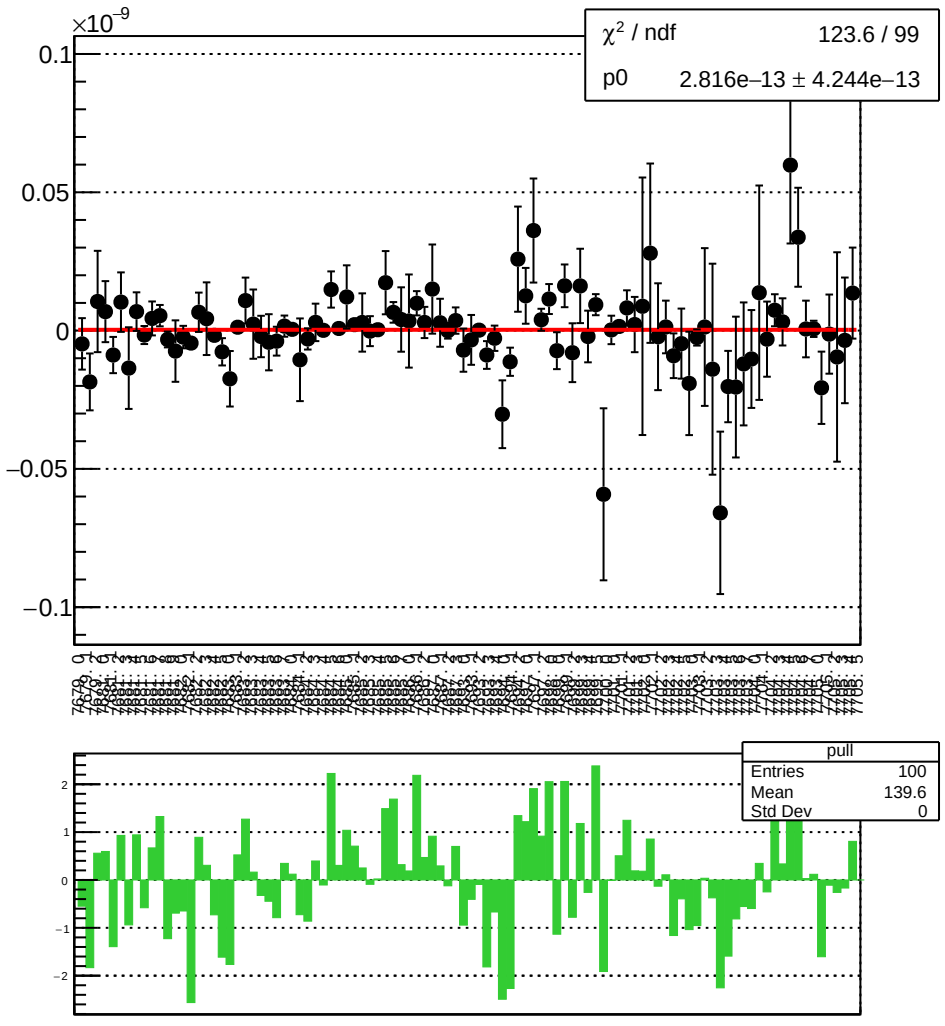

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.15 / 99
p0 0.08733 ± 0.1612
pull
Entries 100
Mean 127.2
Std Dev 0

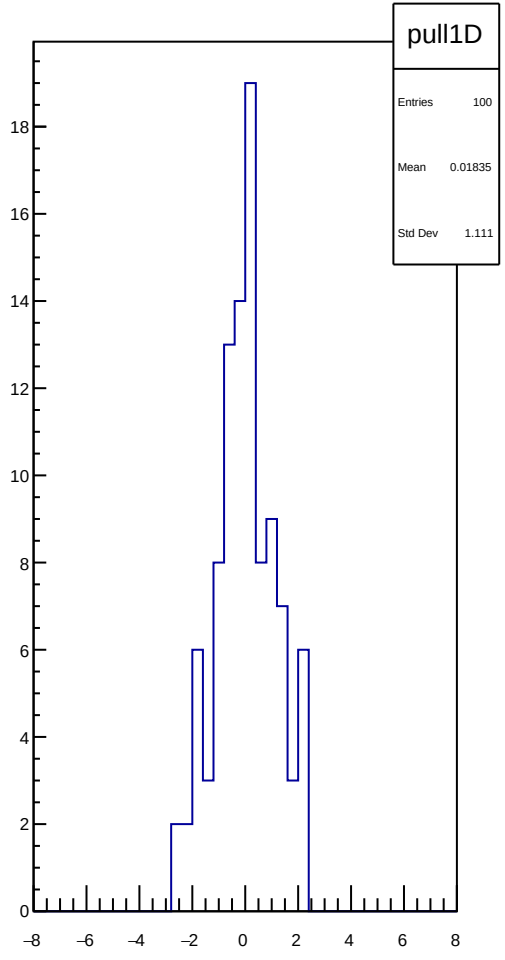

pull1D
Entries 100
Mean 0.0325
Std Dev 0.9749

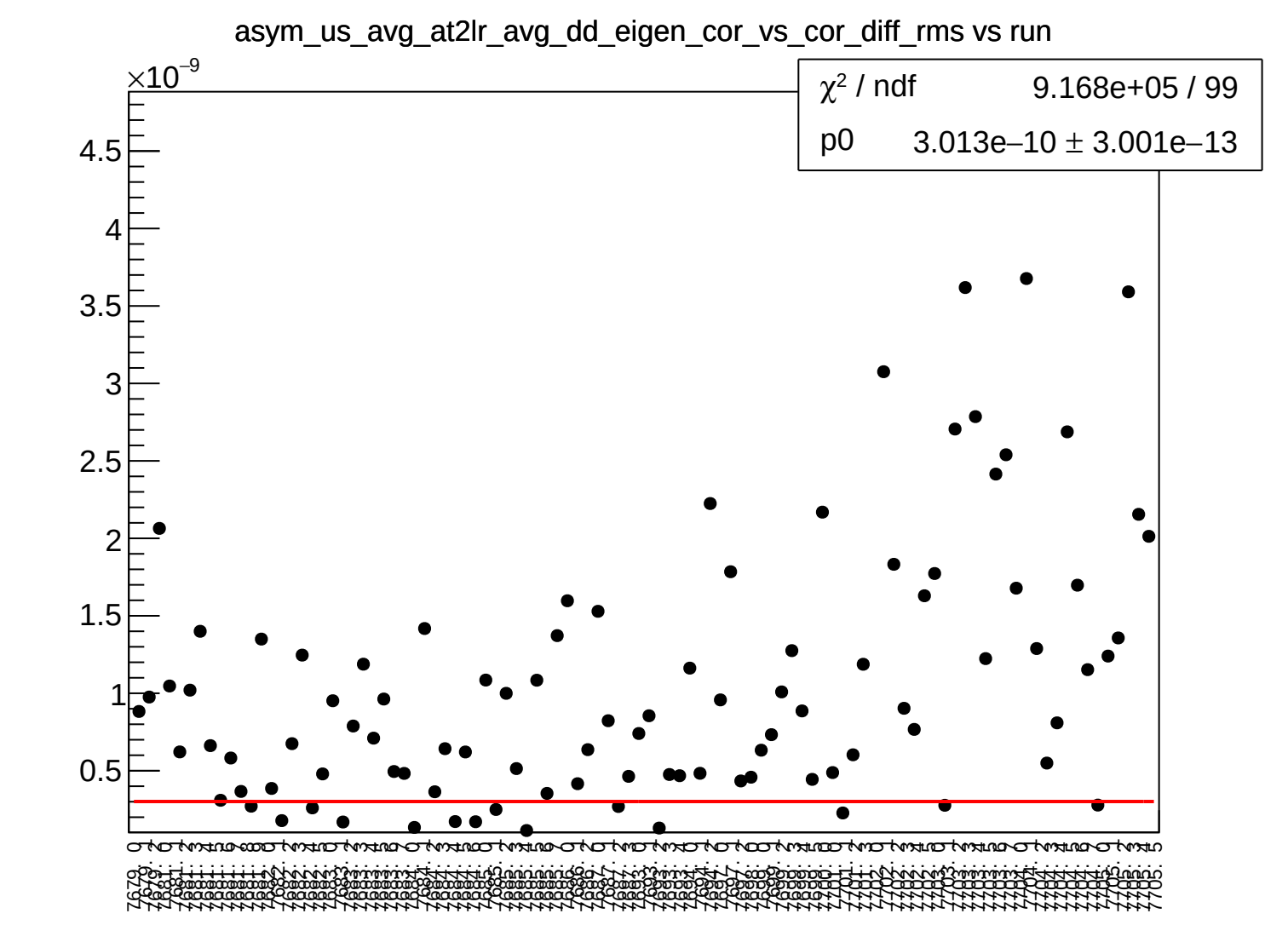

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.825e+05 / 99
p0 150.5 ± 0.114
400
350
300
250
200
150
100

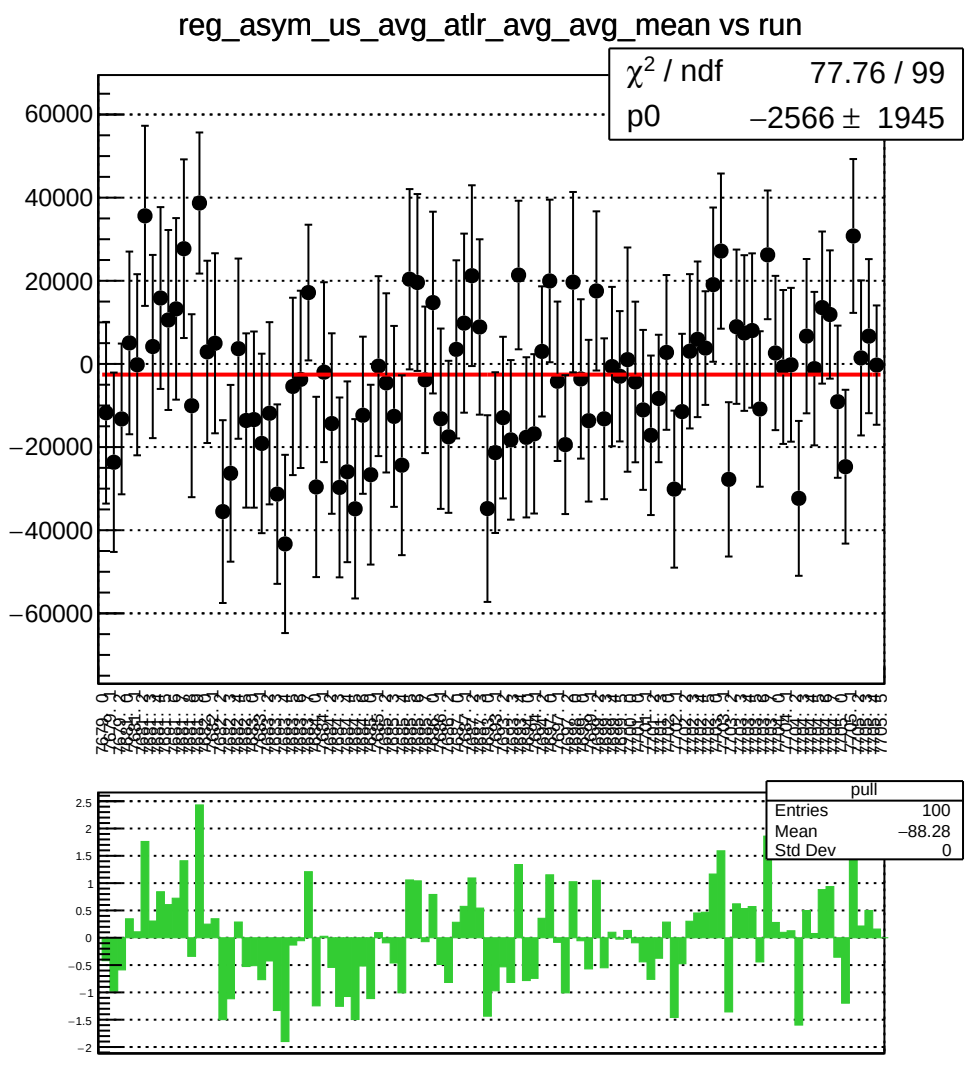

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.15 / 99
p0 0.08733 ± 0.1612
pull
Entries 100
Mean 127.2
Std Dev 0
pull1D
Entries 100
Mean 0.0325
Std Dev 0.9749

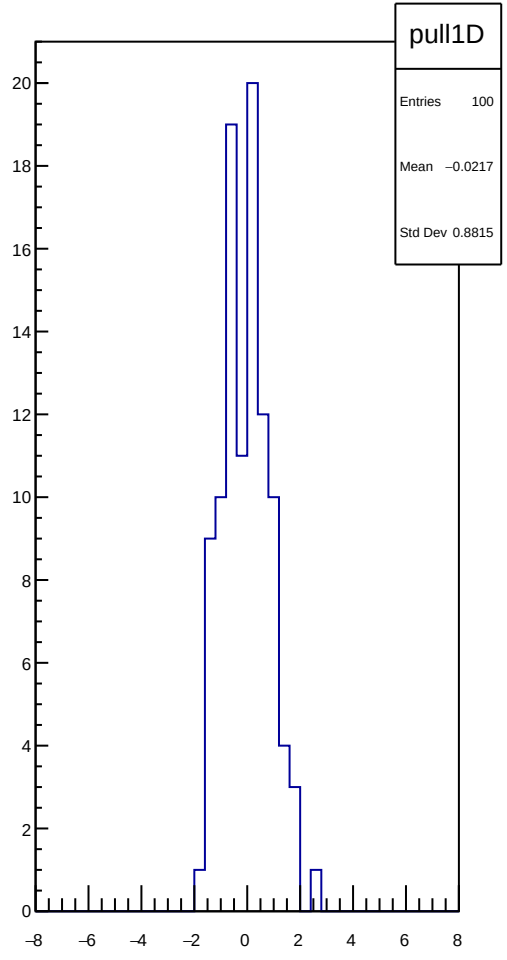

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.825e+05 / 99
p0 150.5 ± 0.114
400
350
300
250
200
150
100

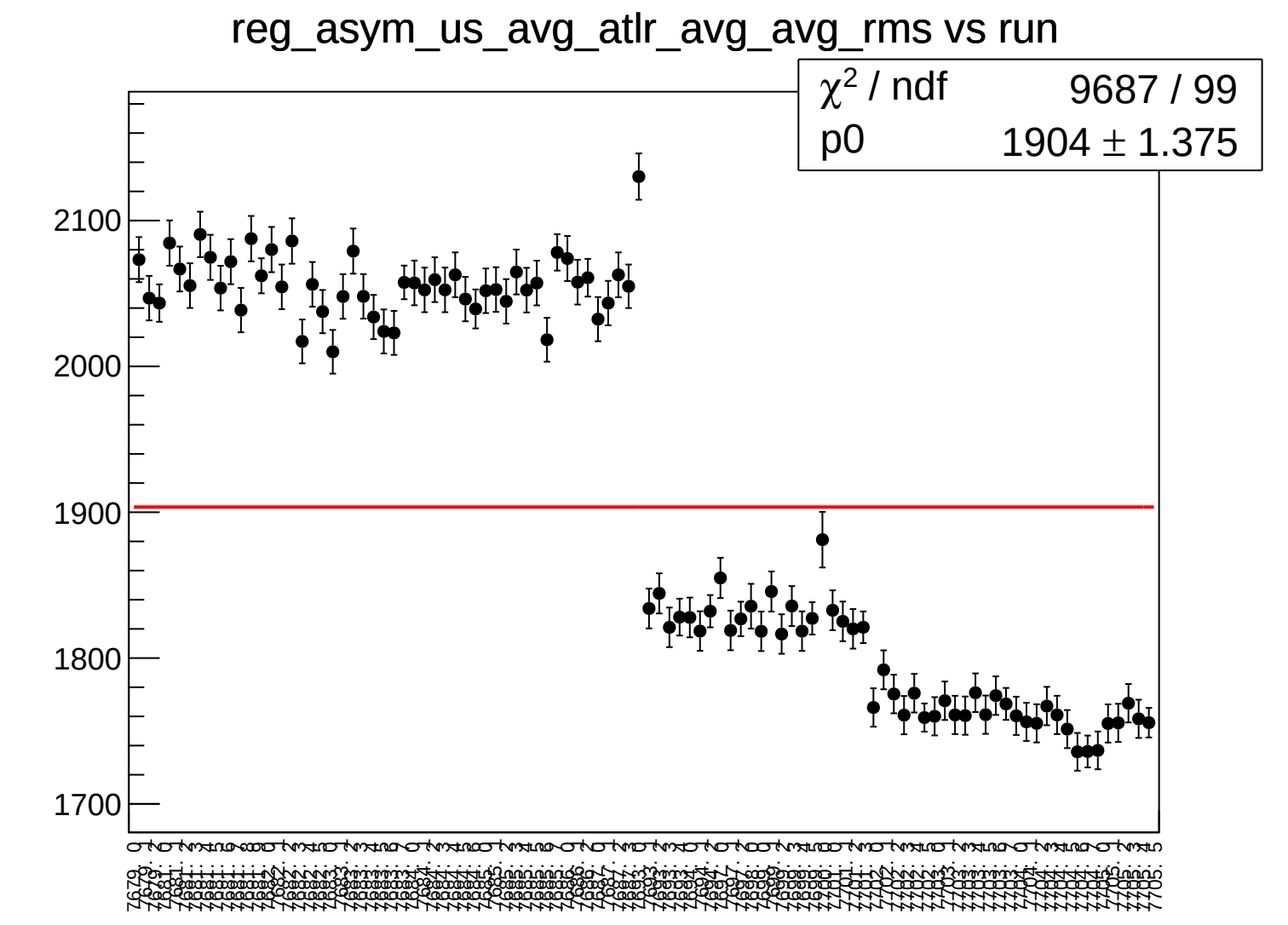

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 123.6 / 99
p0 2.816e−13 ± 4.244e−13
0.1
0.05
0
−0.05
−0.1
pull
Entries 100
Mean 139.6
Std Dev 0
2
1
0
−1
−2

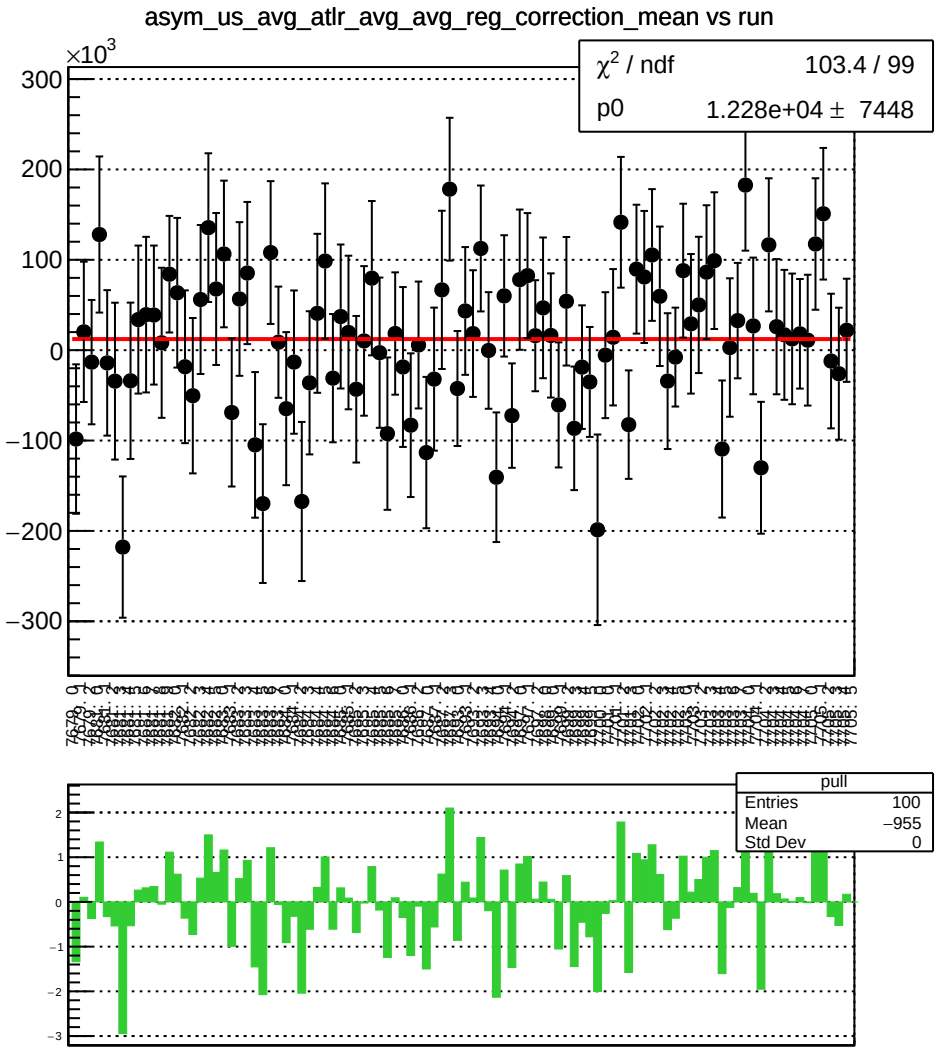

pull1D
Entries 100
Mean 0.01835
Std Dev 1.111
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

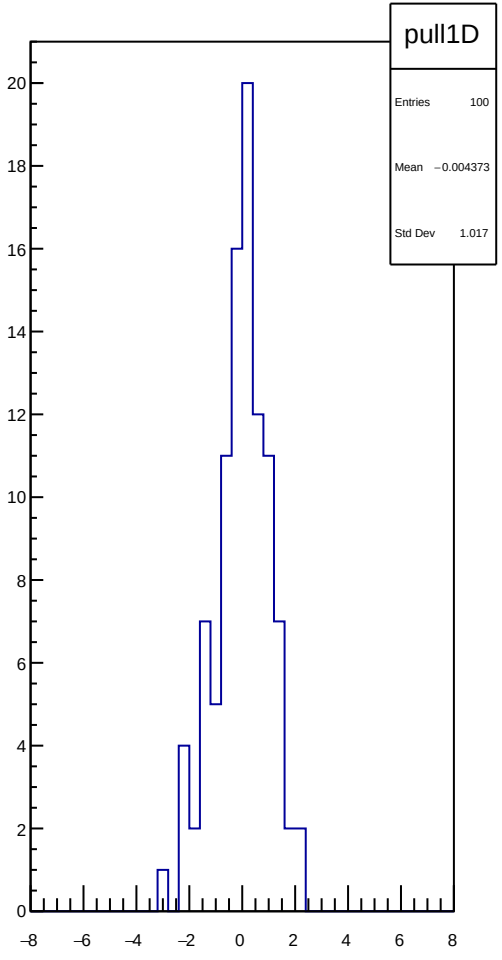

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.168e+05 / 99
p0 3.013e−10 ± 3.001e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

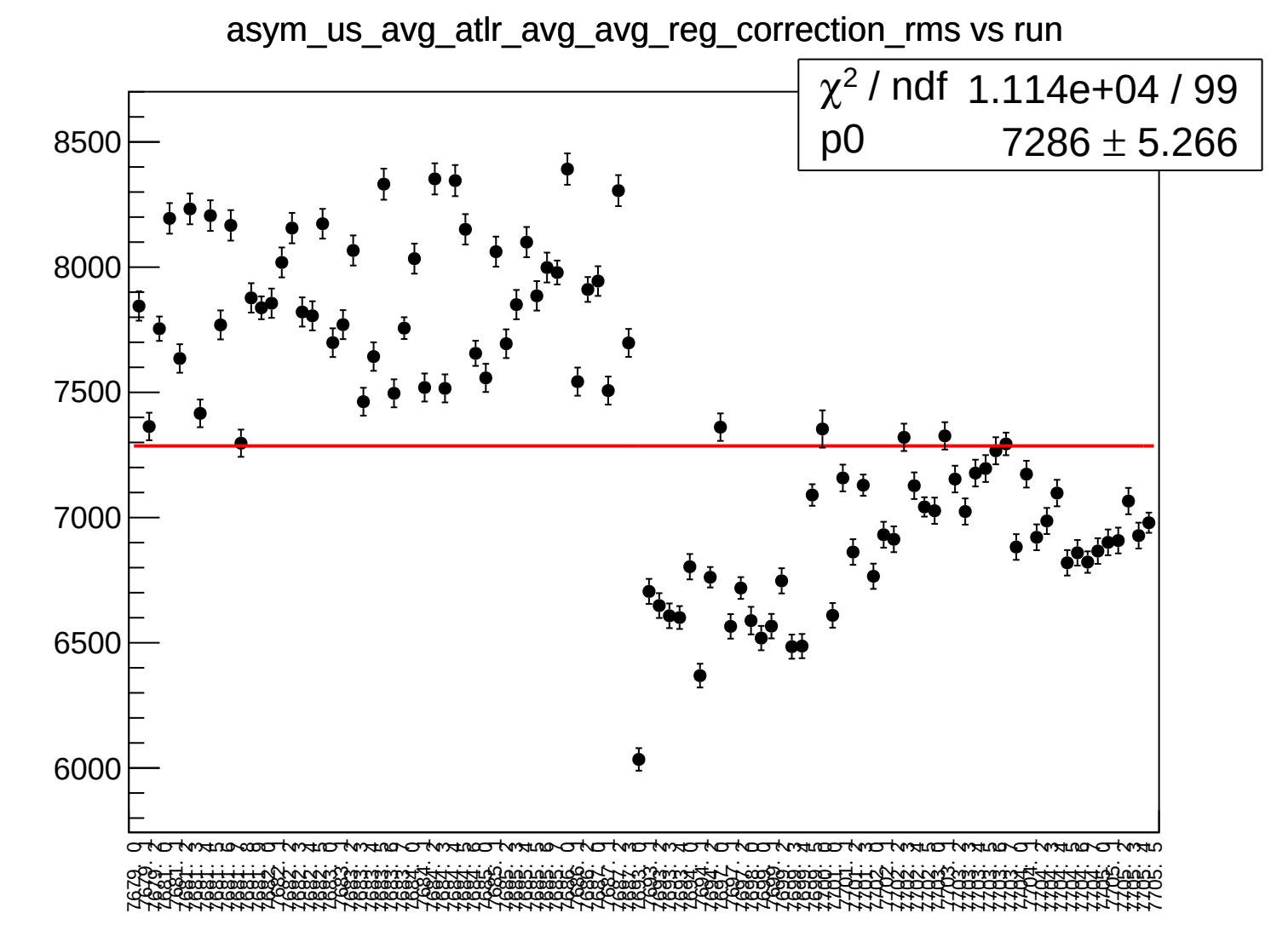

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 77.76 / 99
p0 −2566 ± 1945
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −88.28
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

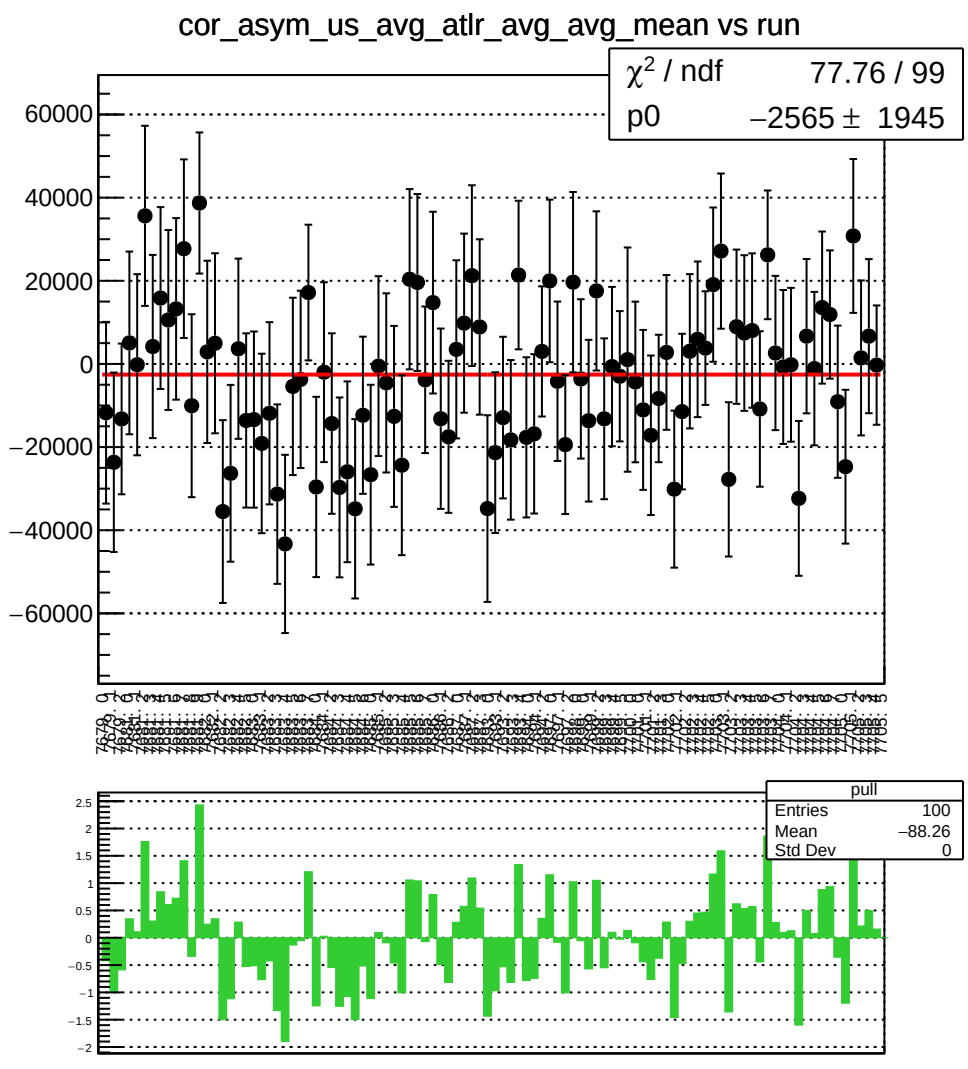

pull1D
Entries 100
Mean −0.0217
Std Dev 0.8815
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

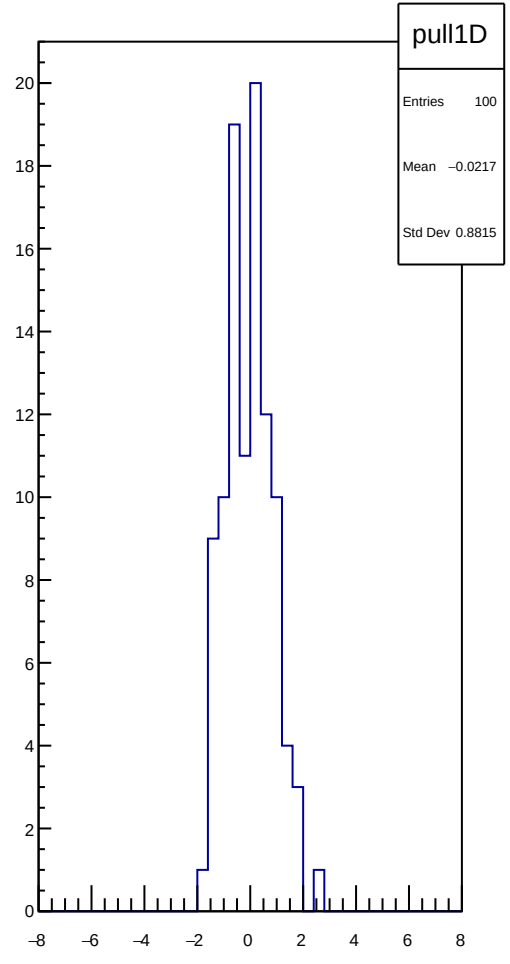

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 9687 / 99
p0 1904 ± 1.375
2100
2000
1900
1800
1700

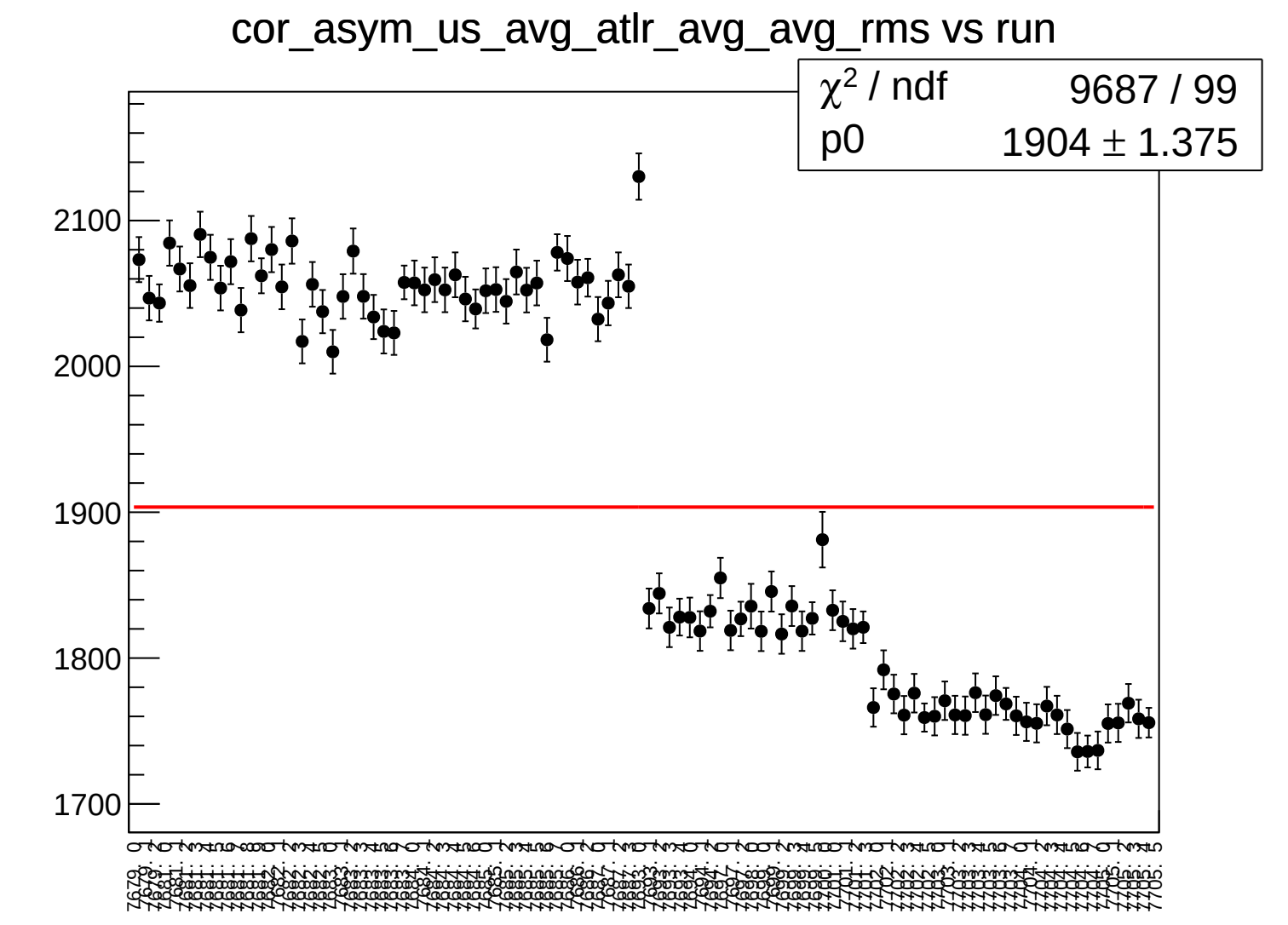

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 103.4 / 99
p0 1.228e+04 ± 7448
pull
Entries 100
Mean −955
Std Dev 0

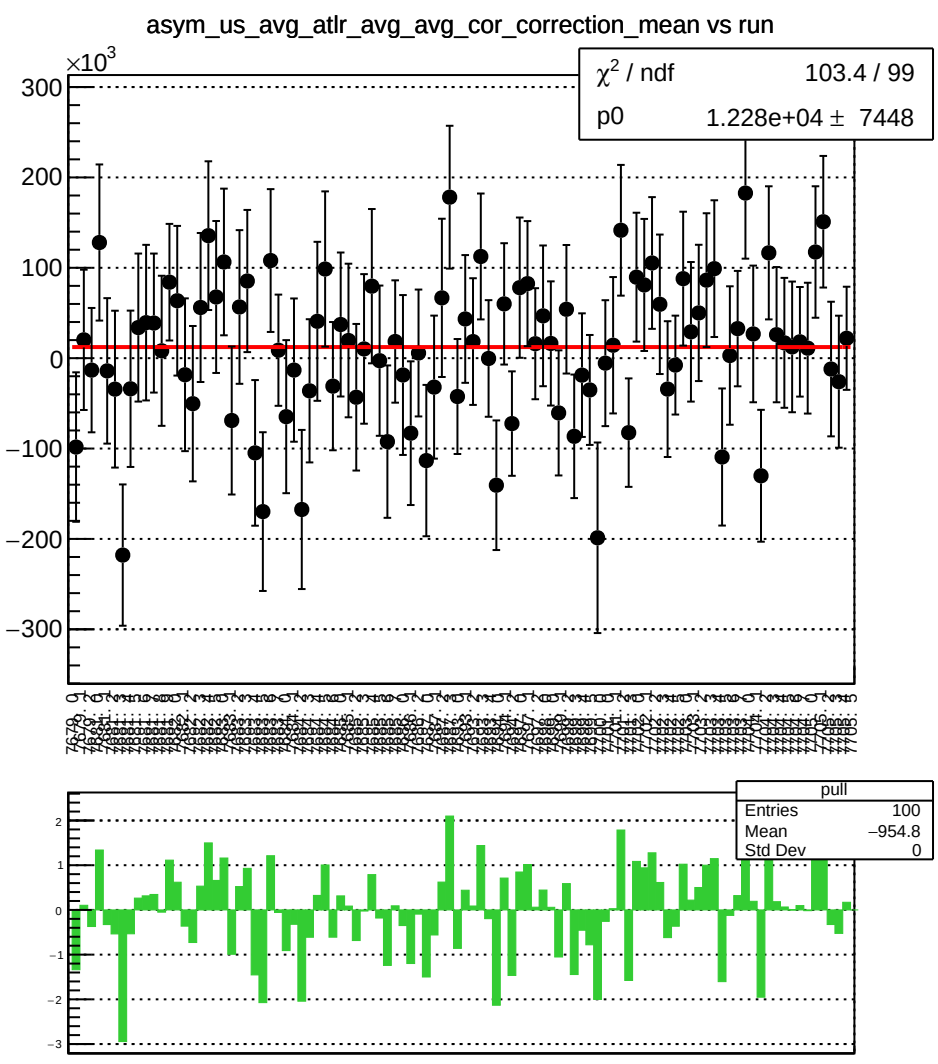

pull1D
Entries 100
Mean −0.004373
Std Dev 1.017

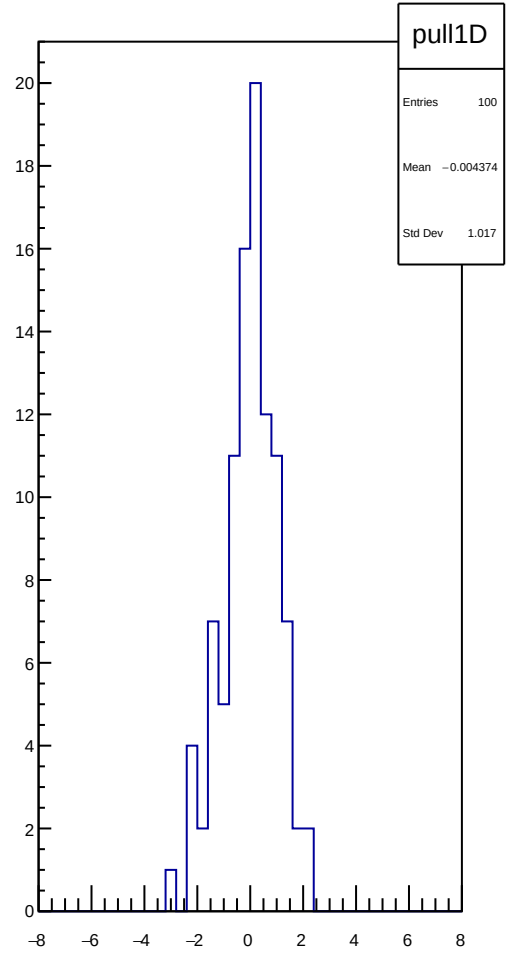

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.114e+04 / 99
p0 7286 ± 5.266
8500
8000
7500
7000
6500
6000

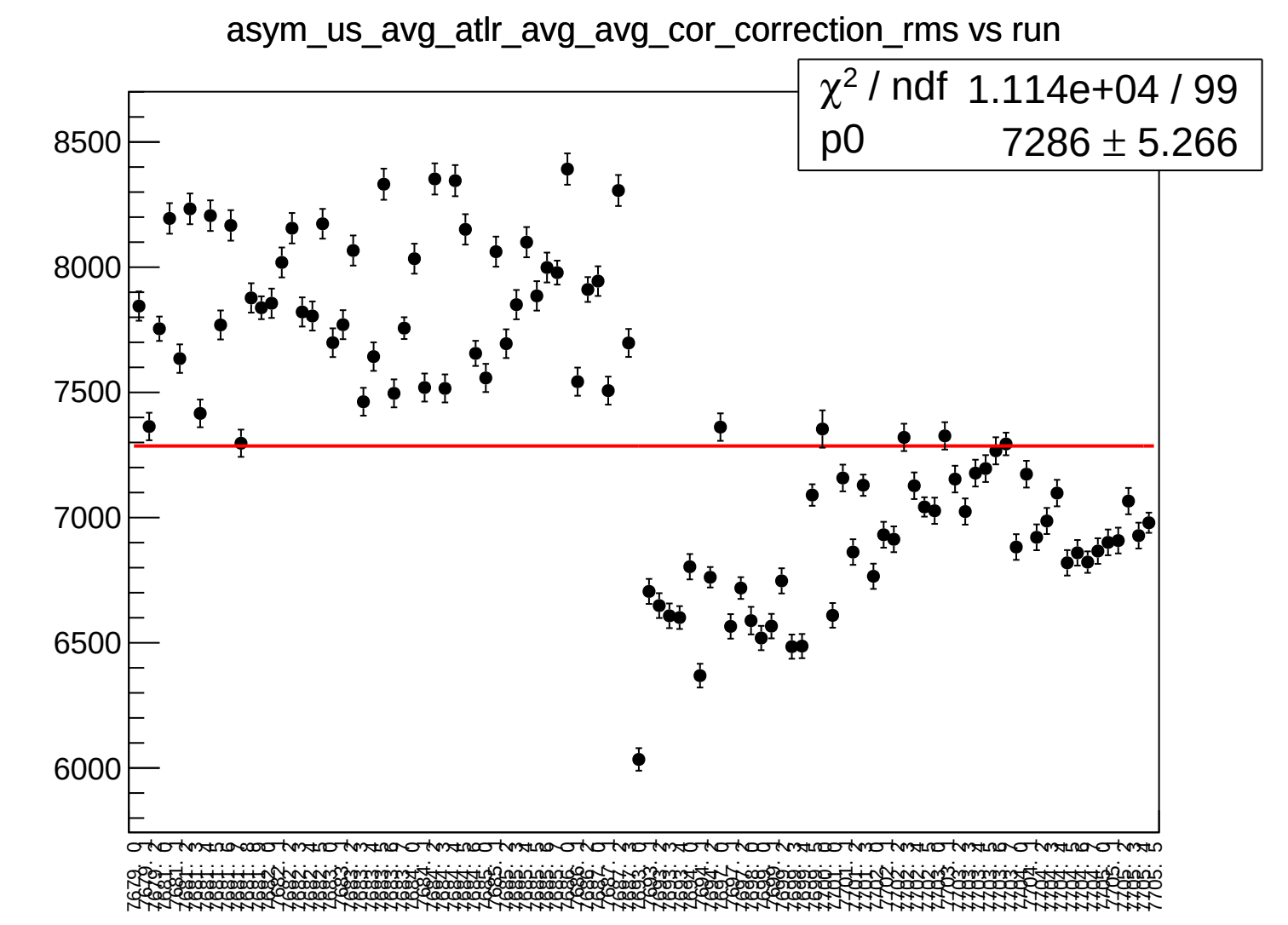

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 77.76 / 99
p0 −2565 ± 1945
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −88.26
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

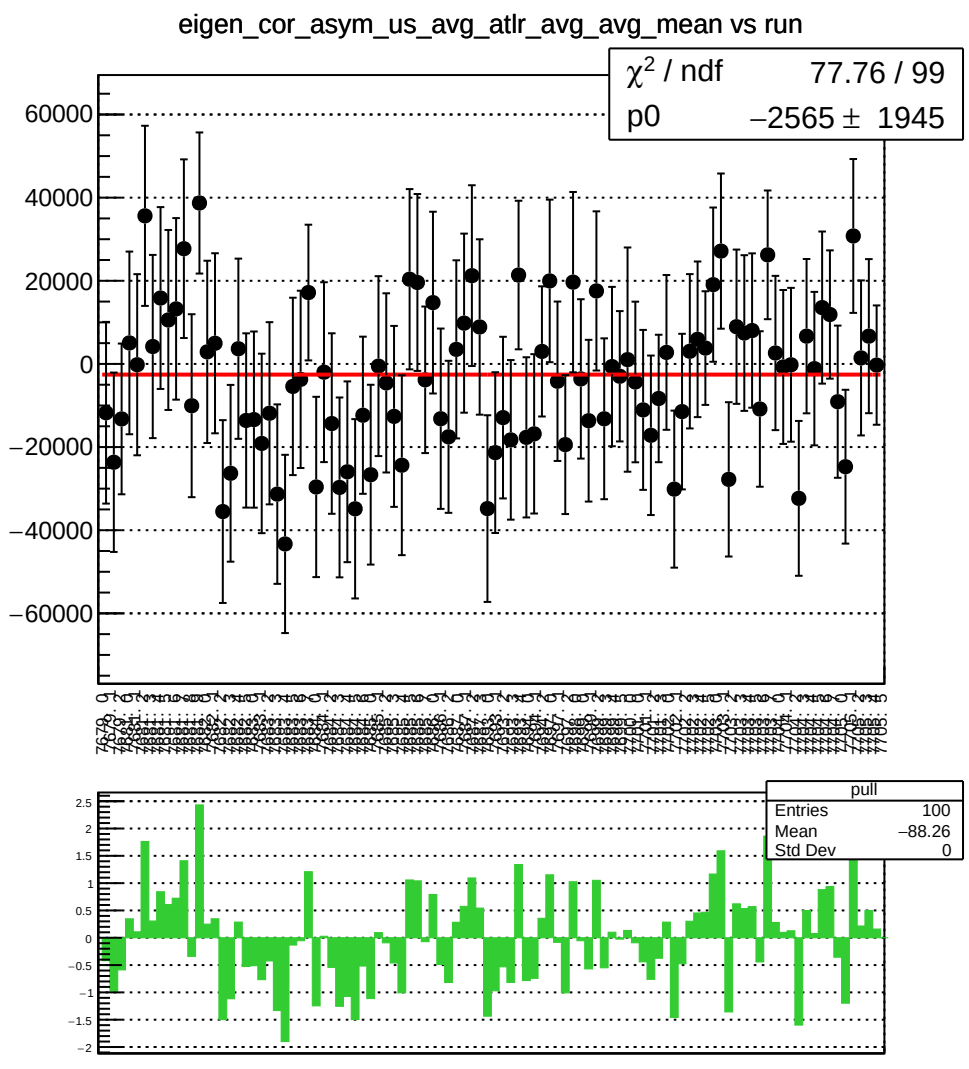

pull1D
Entries 100
Mean −0.0217
Std Dev 0.8815
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

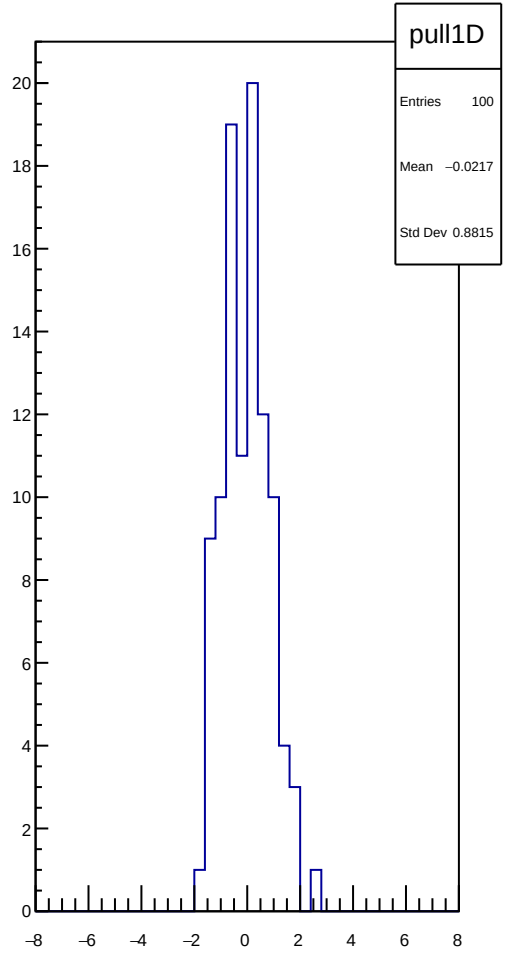

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 9687 / 99
p0 1904 ± 1.375
2100
2000
1900
1800
1700

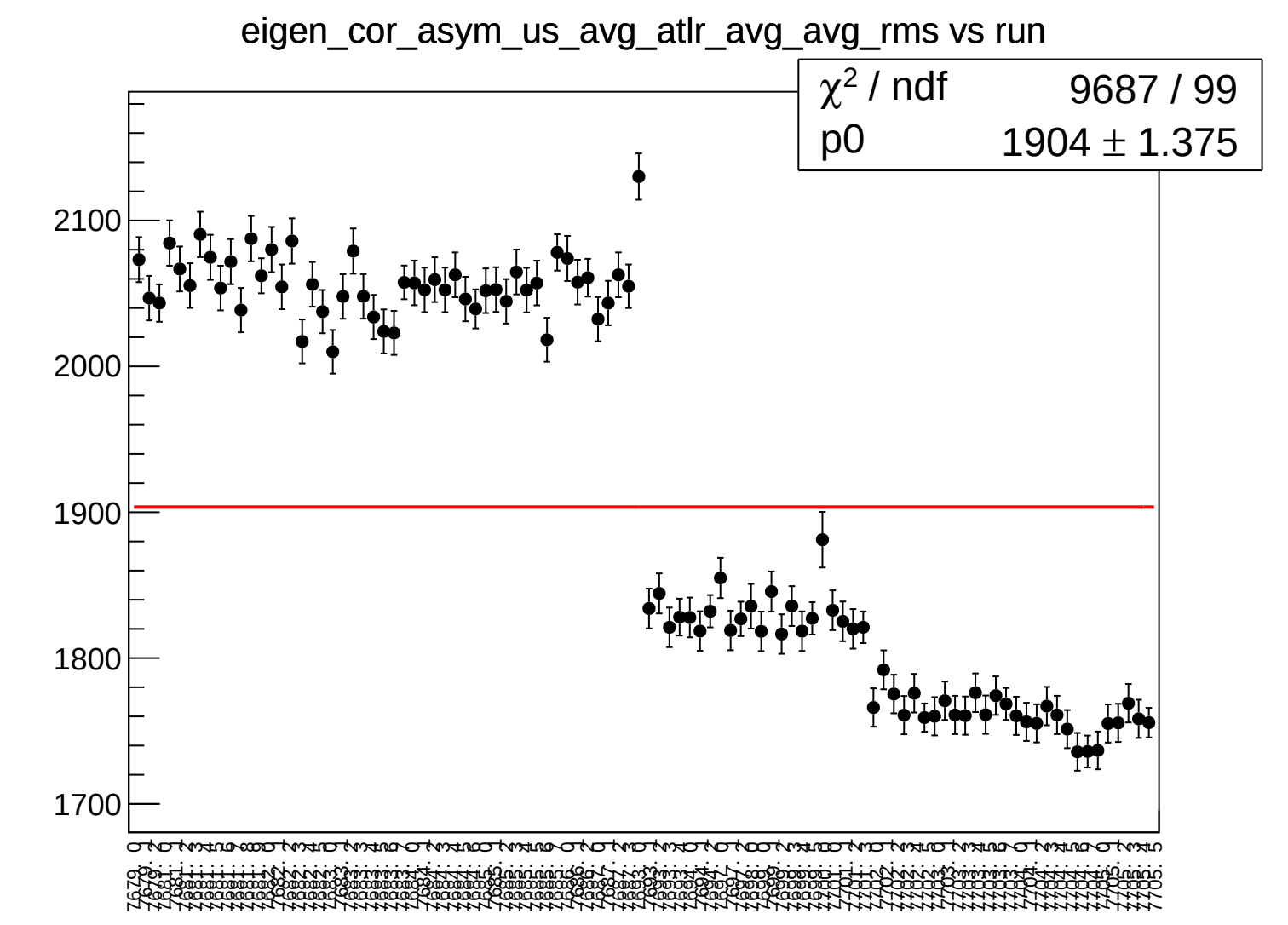

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 103.4 / 99
p0 1.228e+04 ± 7448
pull
Entries 100
Mean −954.8
Std Dev 0

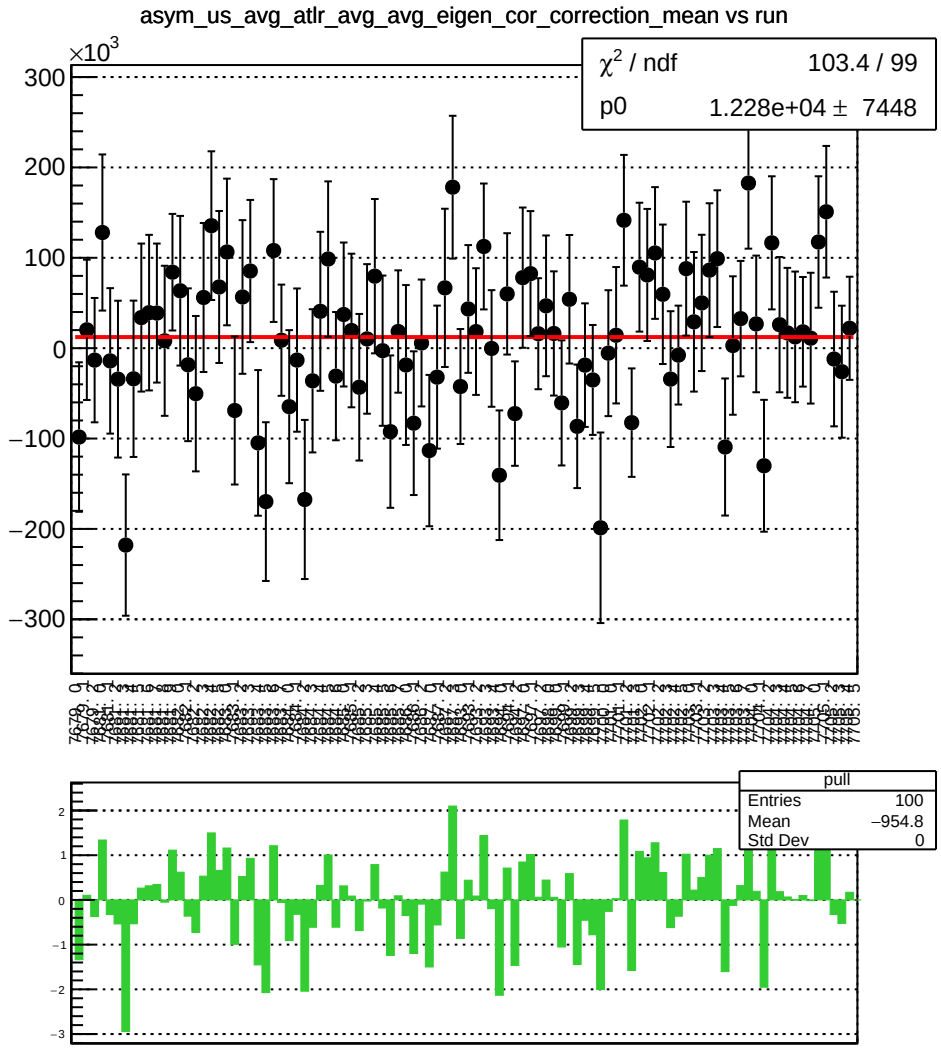

pull1D
Entries 100
Mean −0.004374
Std Dev 1.017

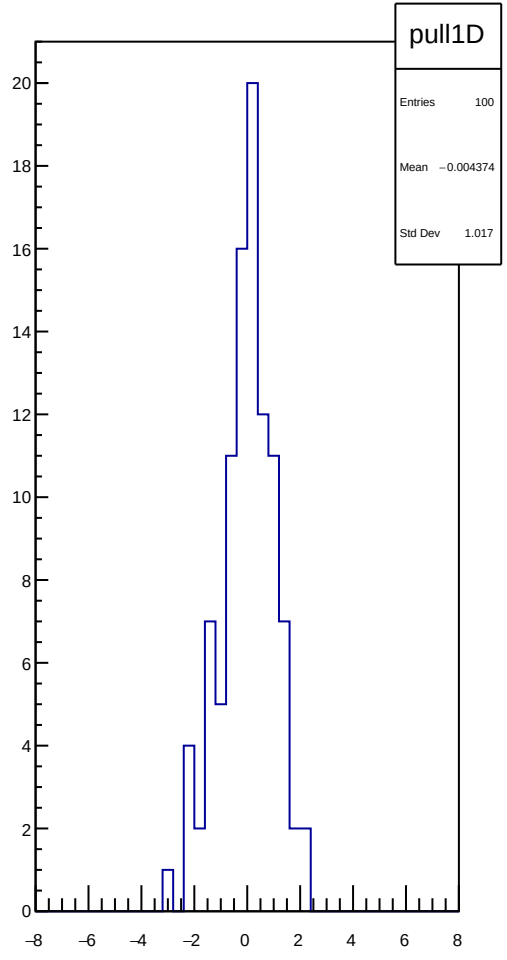

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.114e+04 / 99
p0 7286 ± 5.266
8500
8000
7500
7000
6500
6000

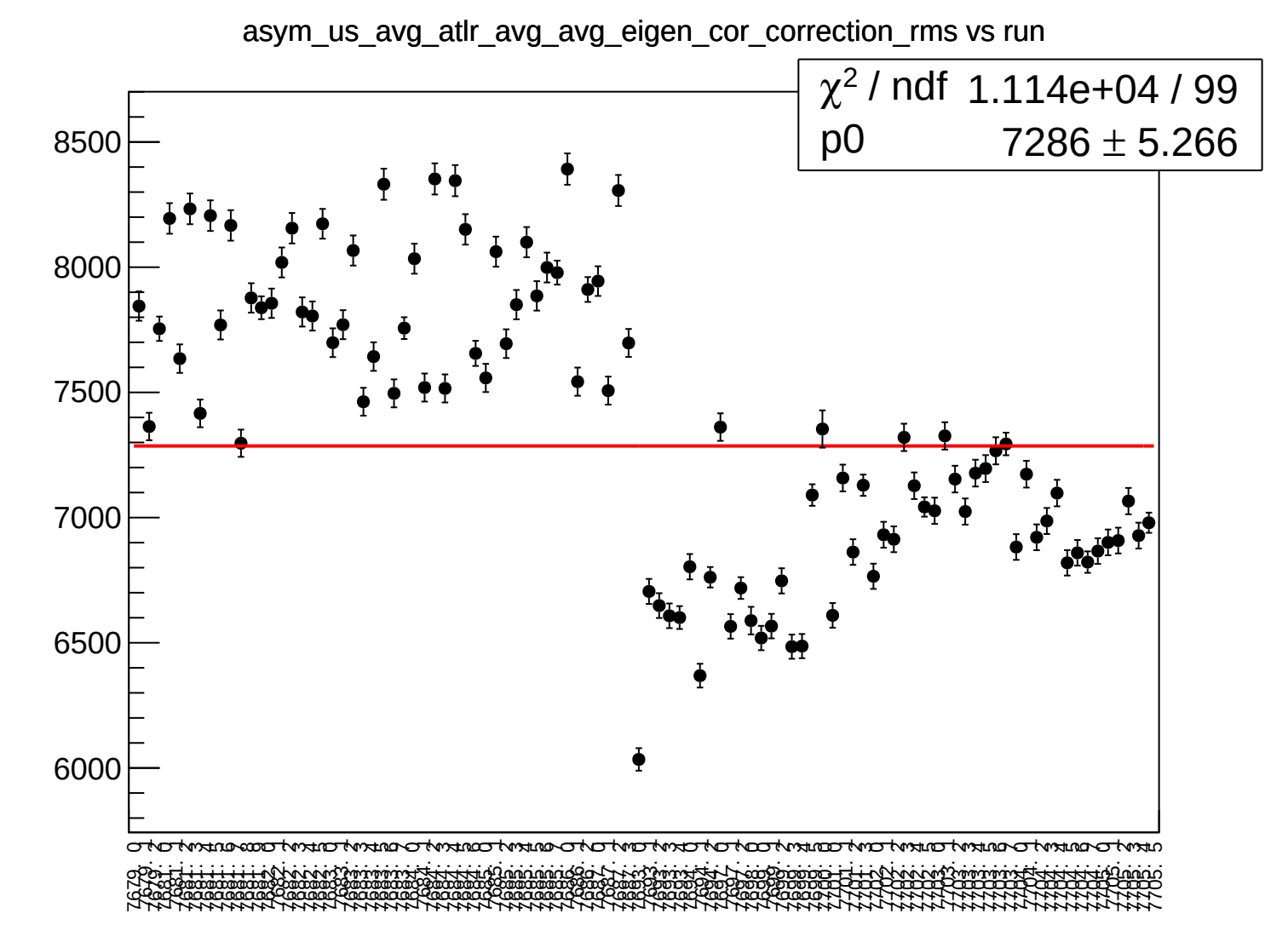

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 77.76 / 99
p0 −2565 ± 1945
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −88.26
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

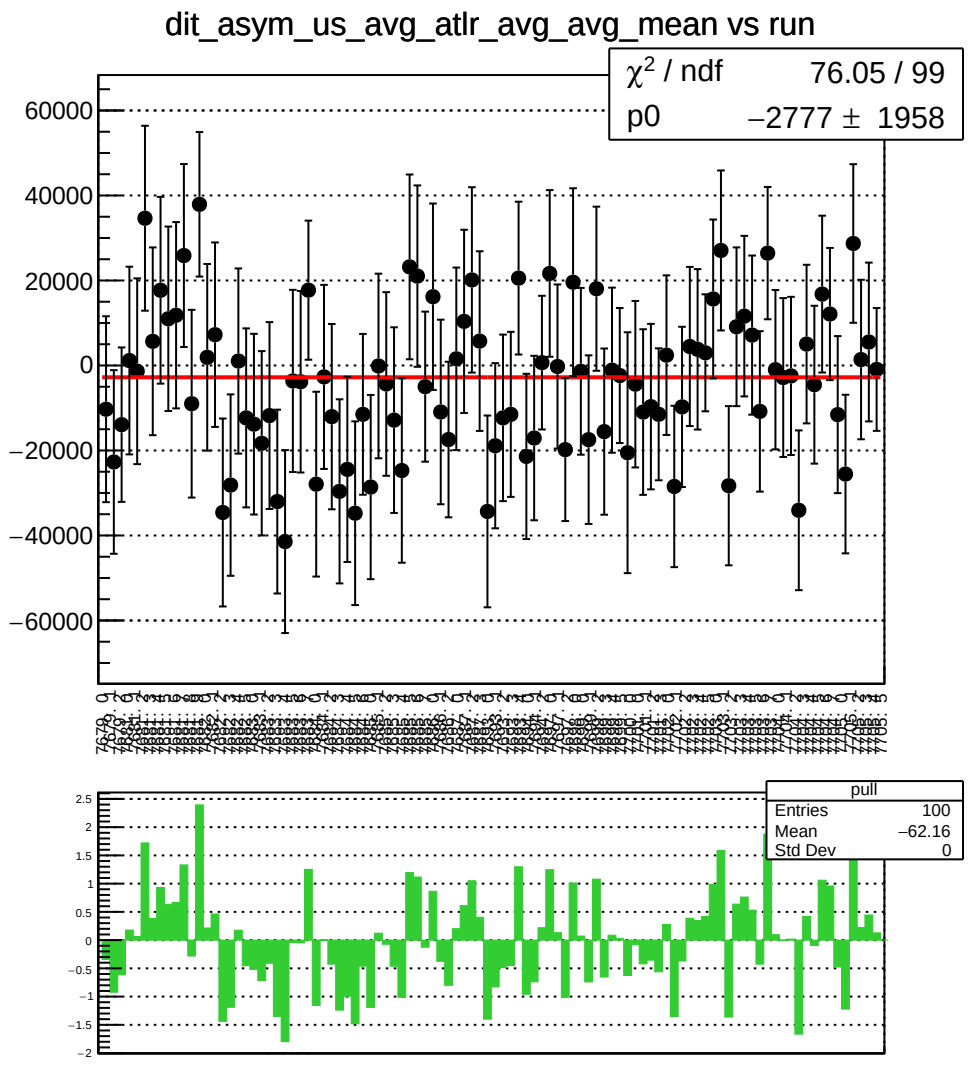

pull1D
Entries 100
Mean −0.0217
Std Dev 0.8815
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

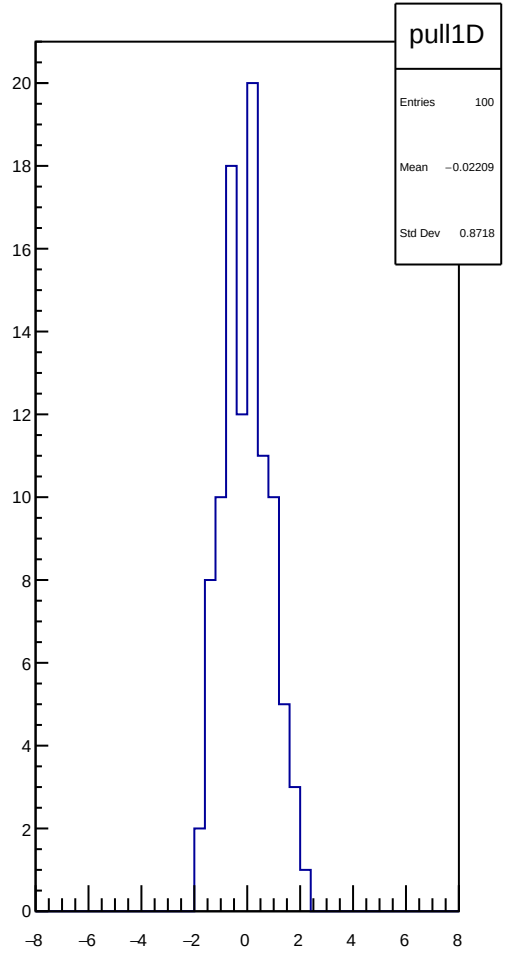

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 9687 / 99
p0 1904 ± 1.375
2100
2000
1900
1800
1700

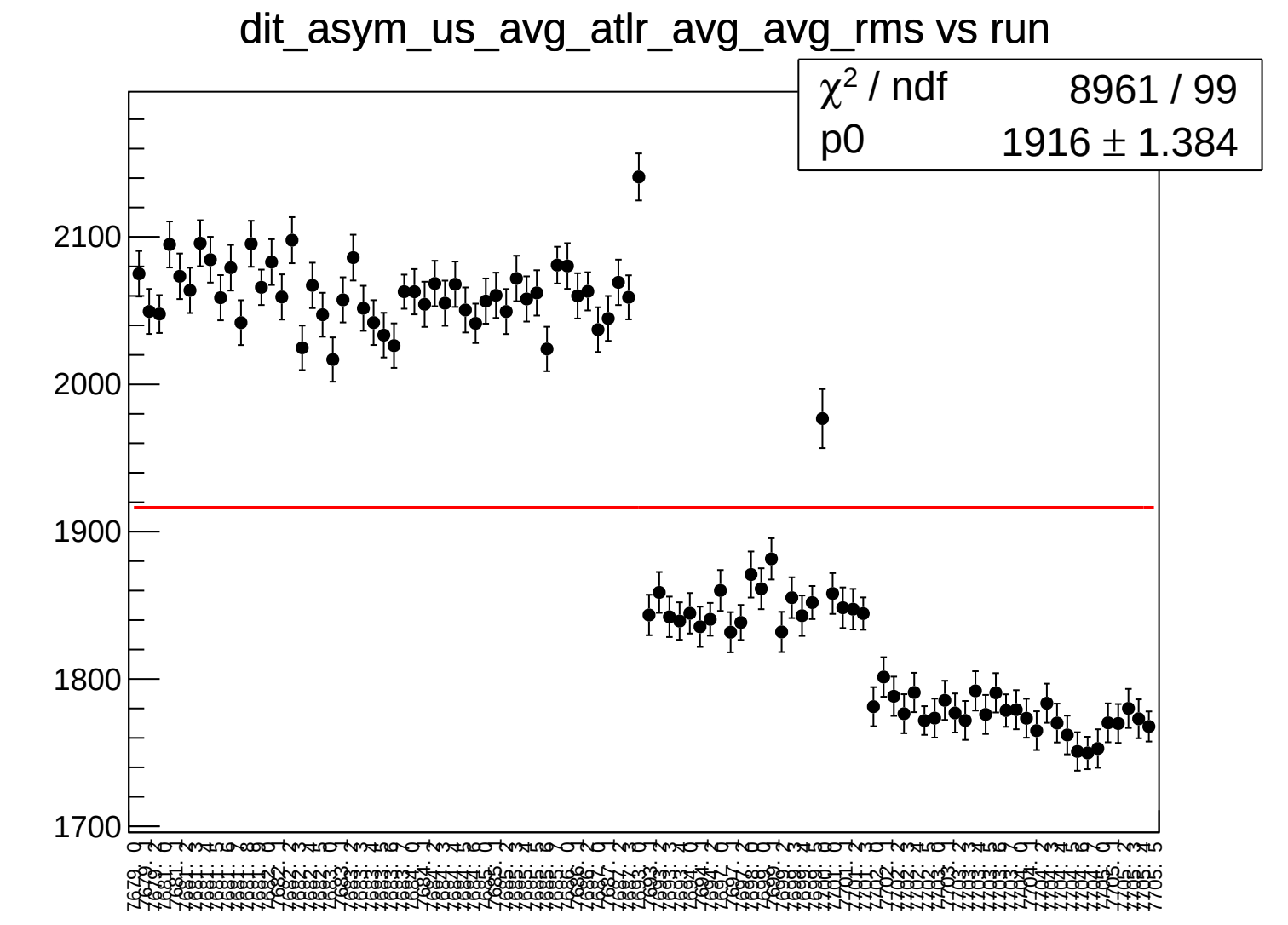

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 103.4 / 99
p0 1.228e+04 ± 7448
pull
Entries 100
Mean −954.8
Std Dev 0

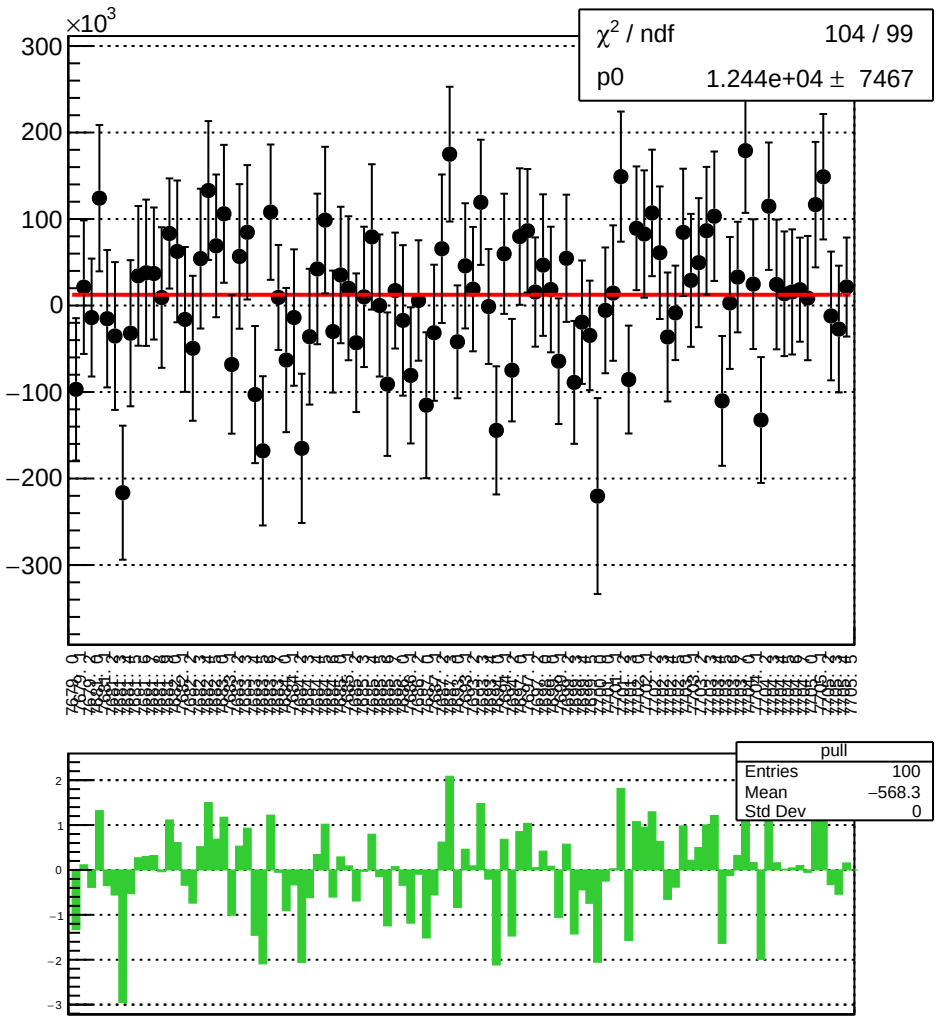

pull1D
Entries 100
Mean −0.004374
Std Dev 1.017

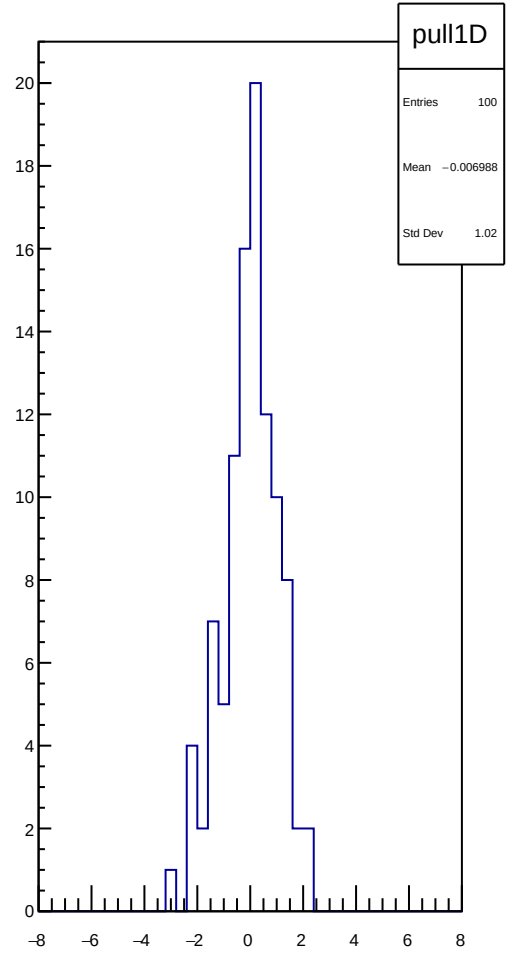

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.114e+04 / 99
p0 7286 ± 5.266
8500
8000
7500
7000
6500
6000

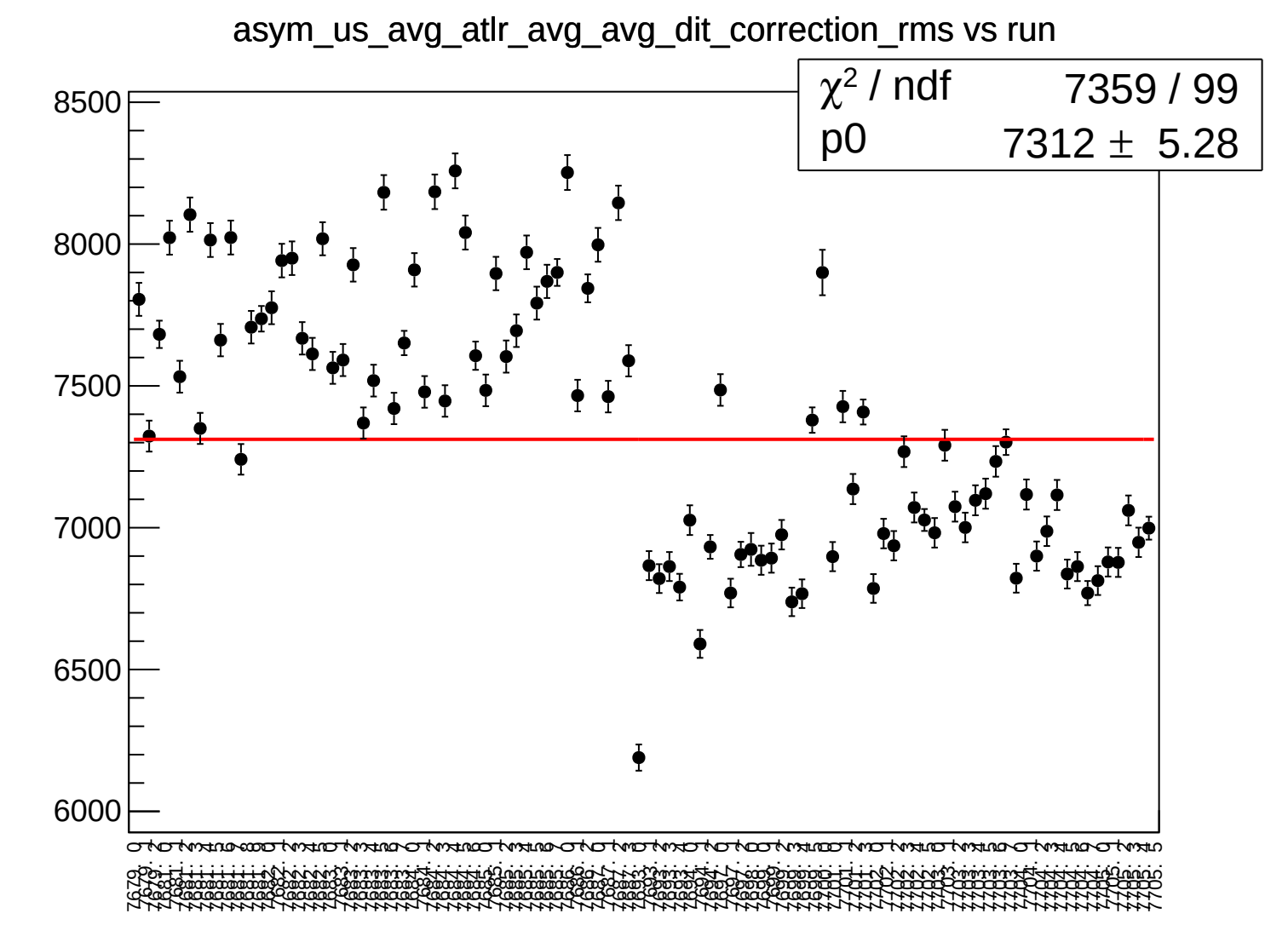

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 76.05 / 99
p0 −2777 ± 1958
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −62.16
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

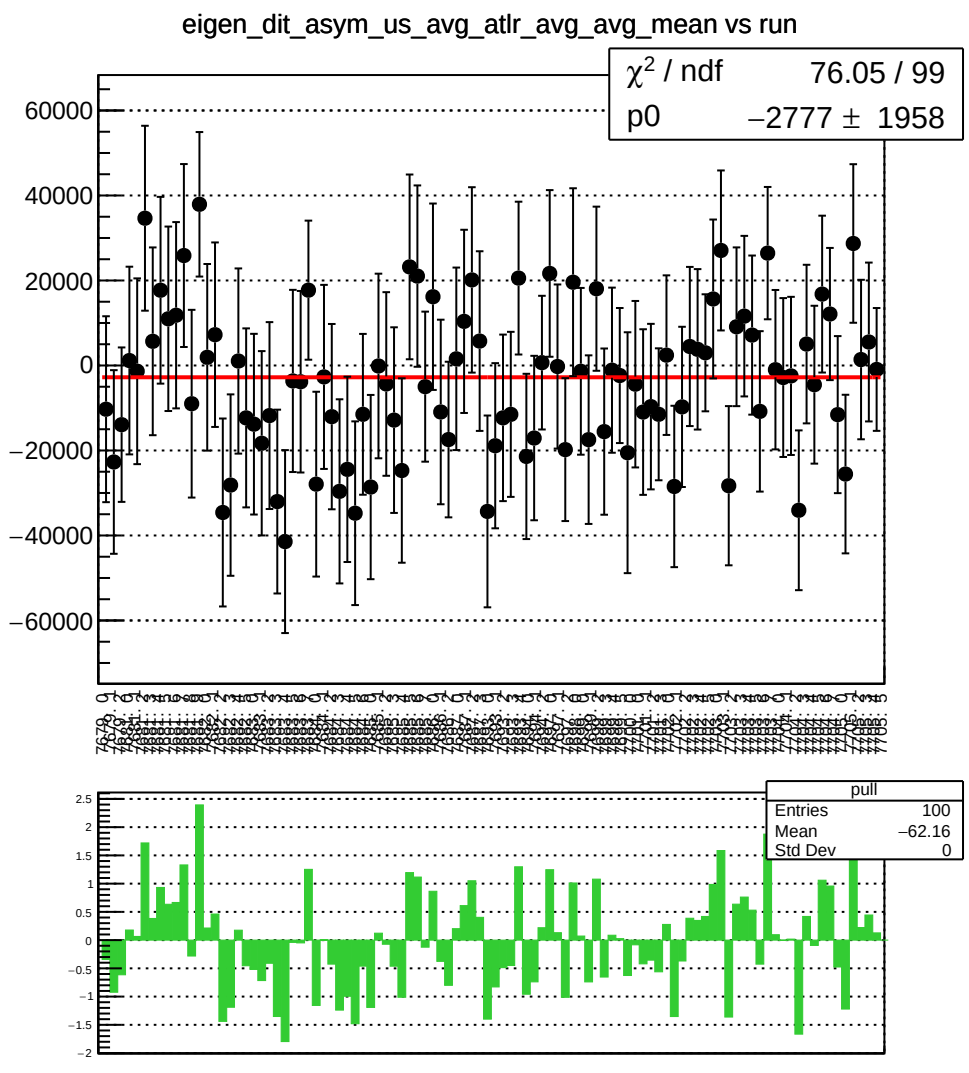

pull1D
Entries 100
Mean −0.02209
Std Dev 0.8718
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

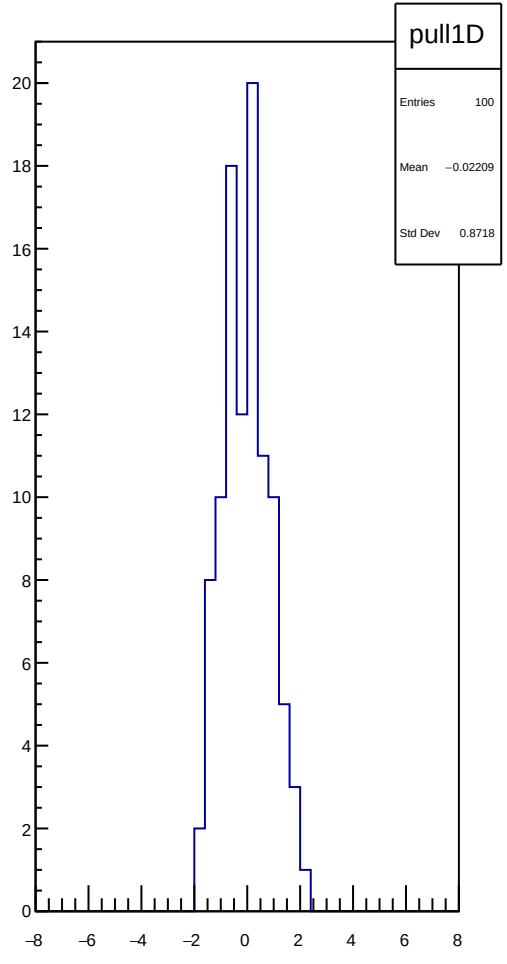

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 8961 / 99
p0 1916 ± 1.384
2100
2000
1900
1800
1700

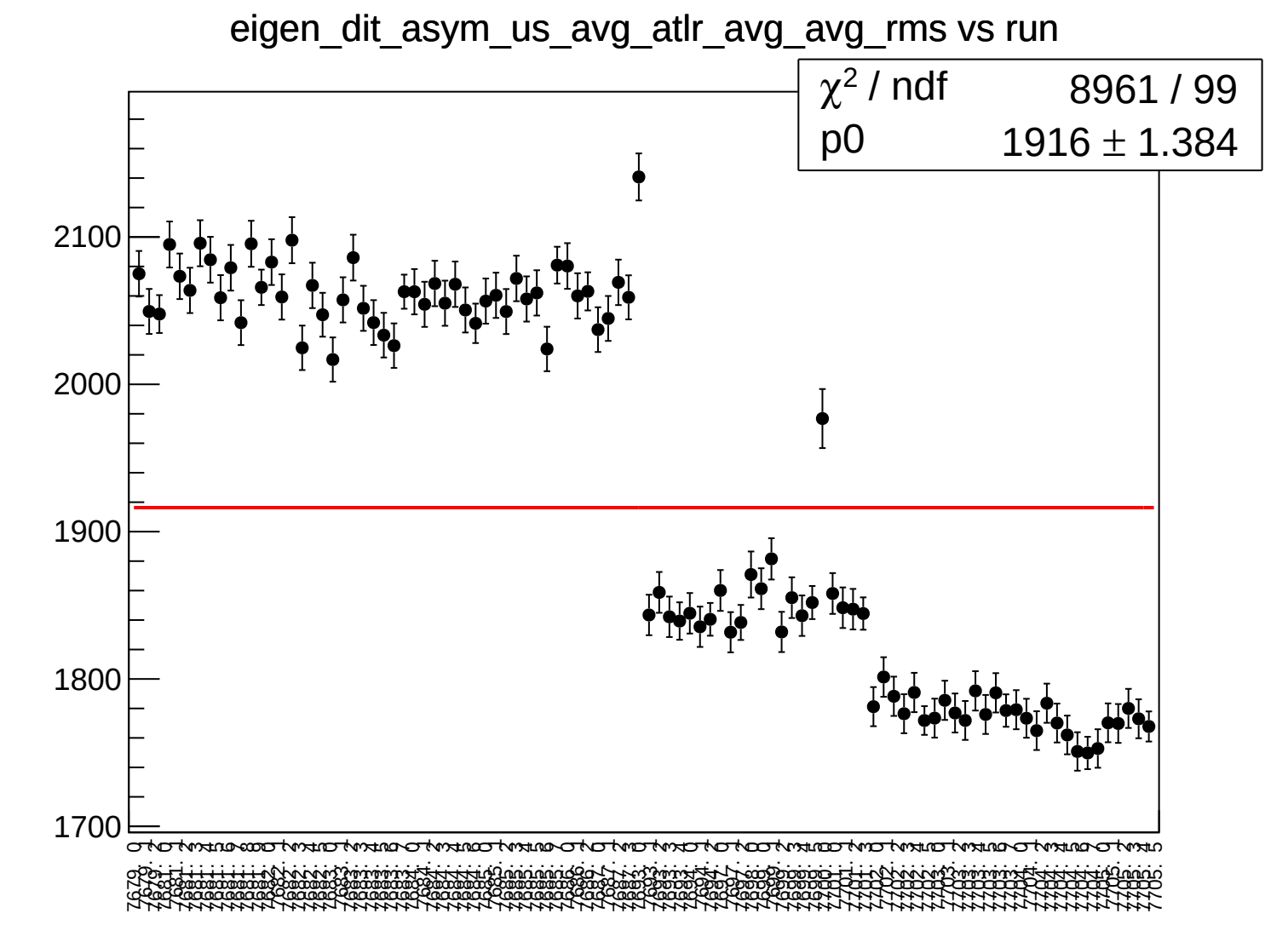

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 104 / 99
p0 1.244e+04 ± 7467
pull
Entries 100
Mean −568.3
Std Dev 0

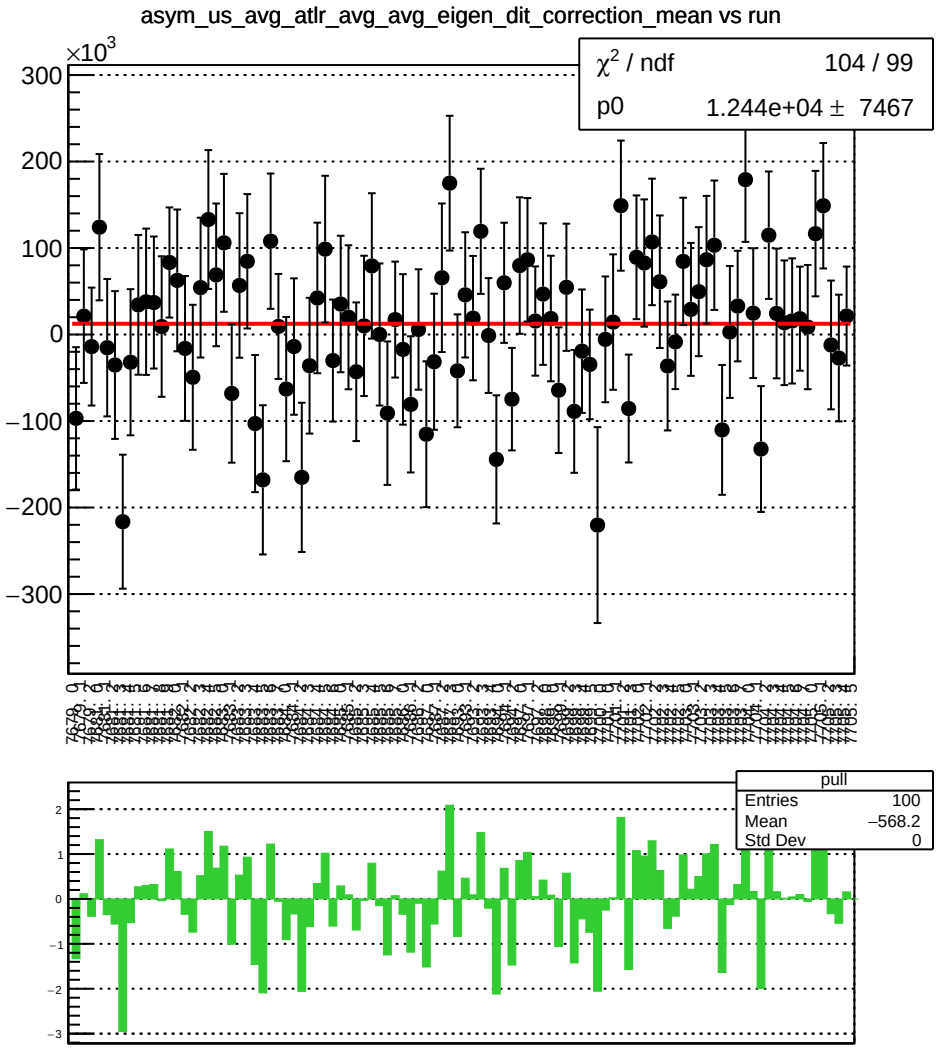

pull1D
Entries 100
Mean −0.006988
Std Dev 1.02

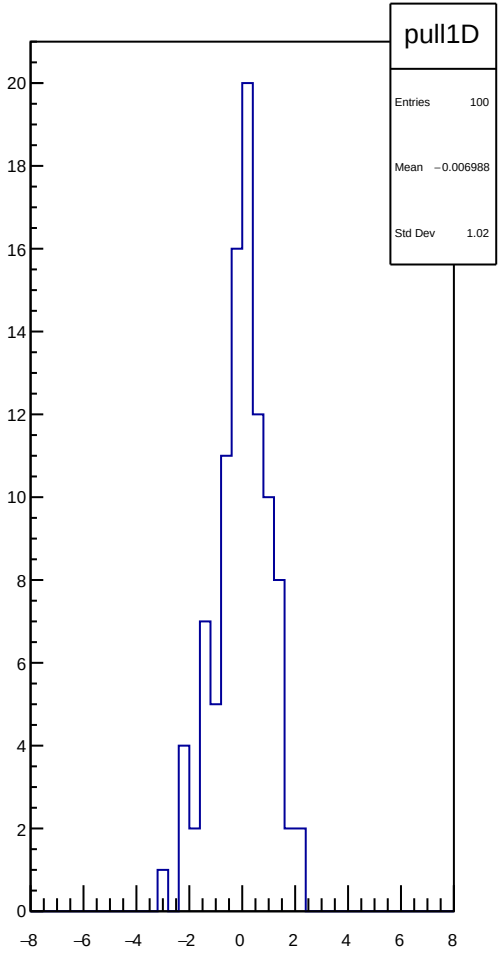

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 7359 / 99
p0 7312 ± 5.28
8500
8000
7500
7000
6500
6000

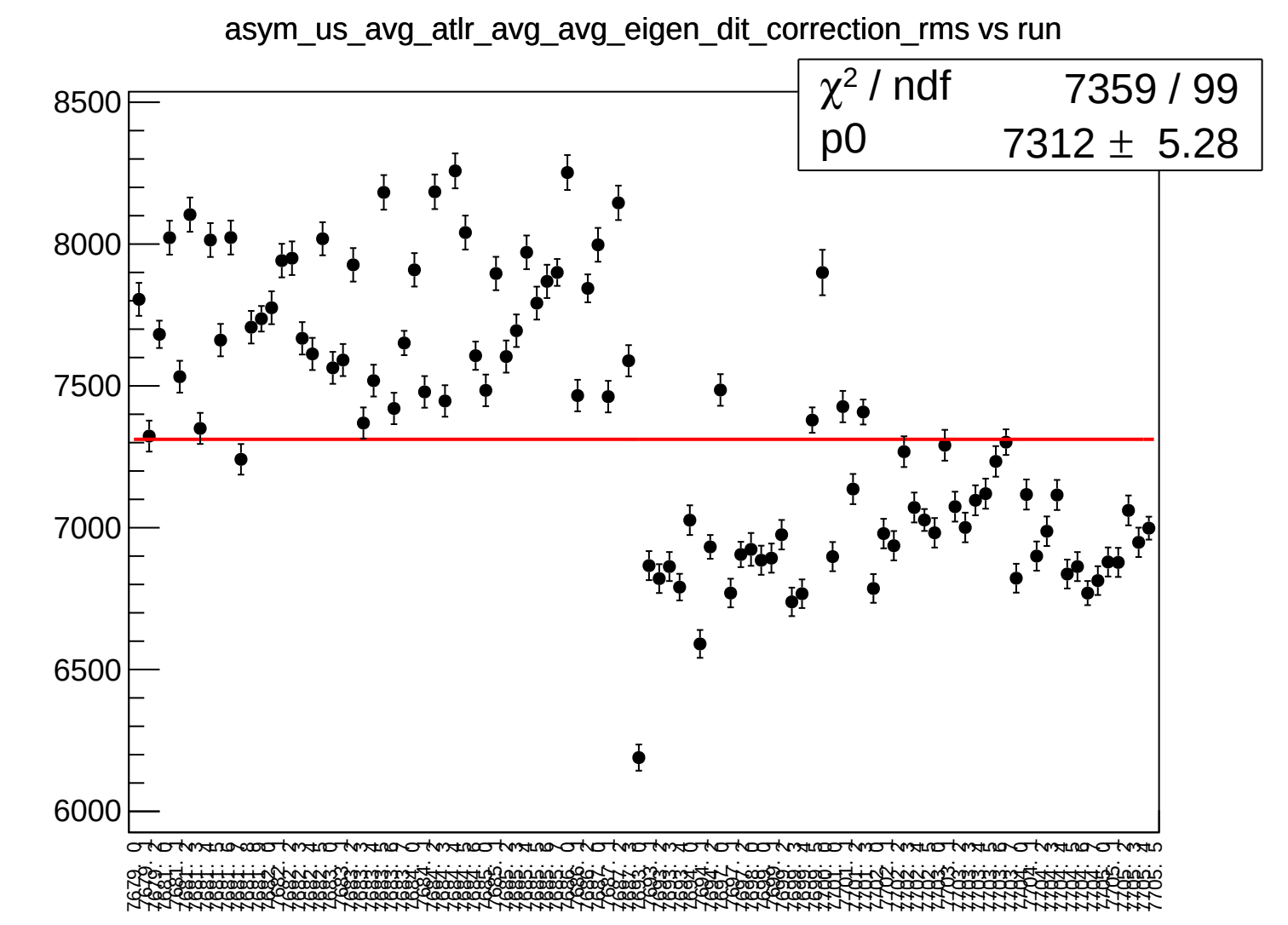

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 76.05 / 99
p0 −2777 ± 1958
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −62.16
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

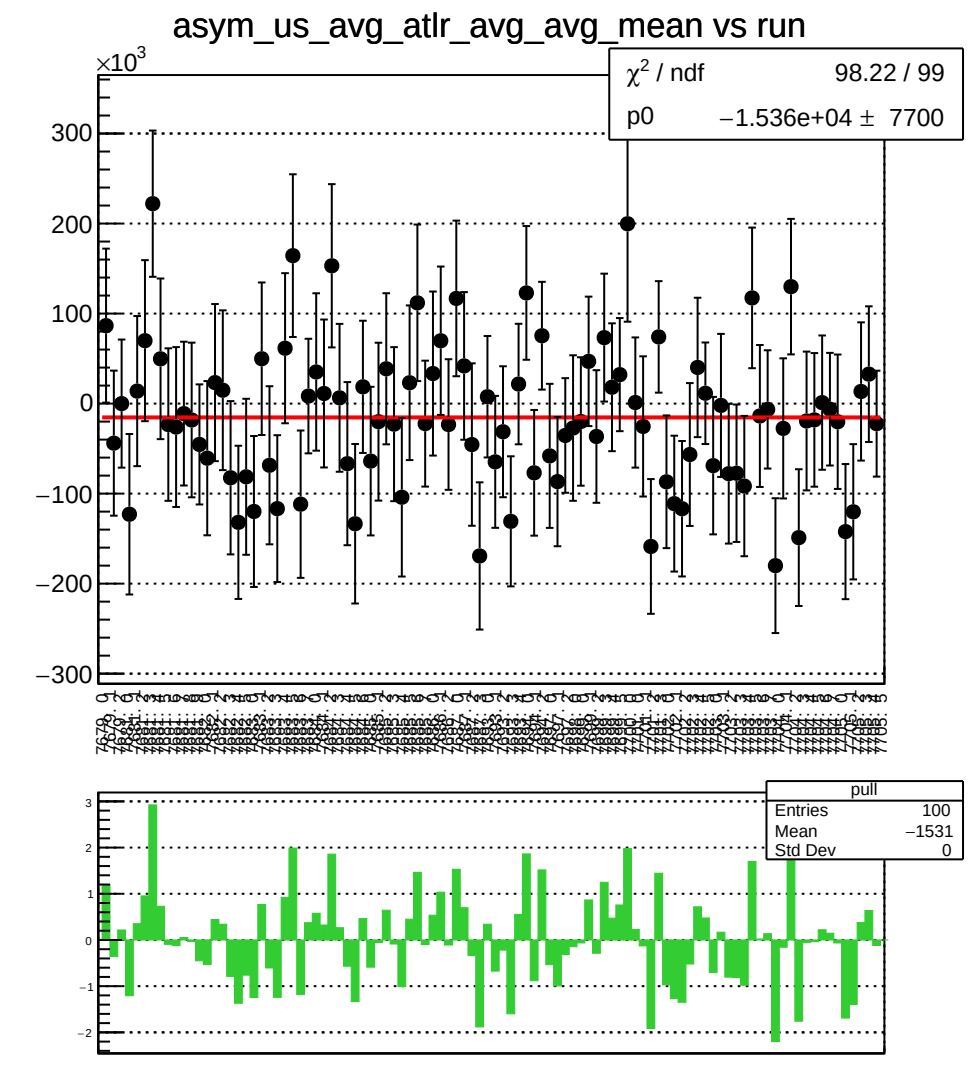

pull1D
Entries 100
Mean −0.02209
Std Dev 0.8718
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

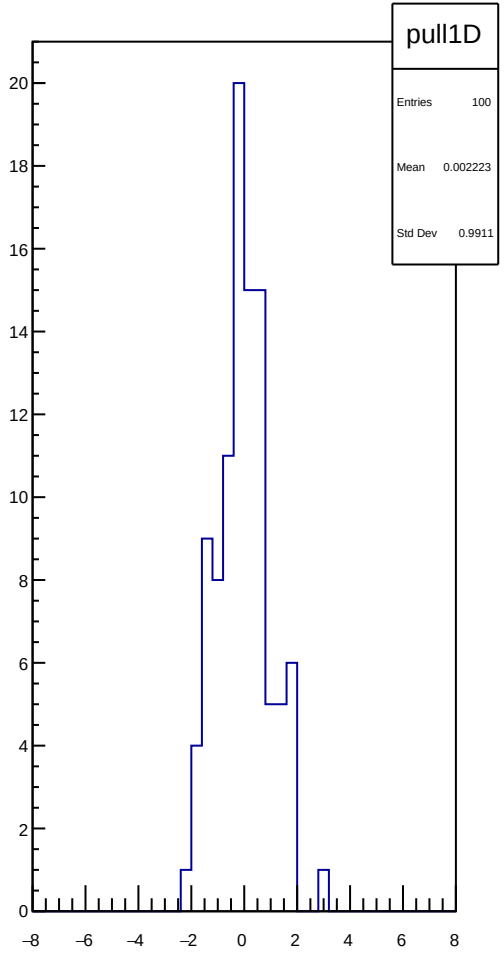

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 8961 / 99
p0 1916 ± 1.384
2100
2000
1900
1800
1700

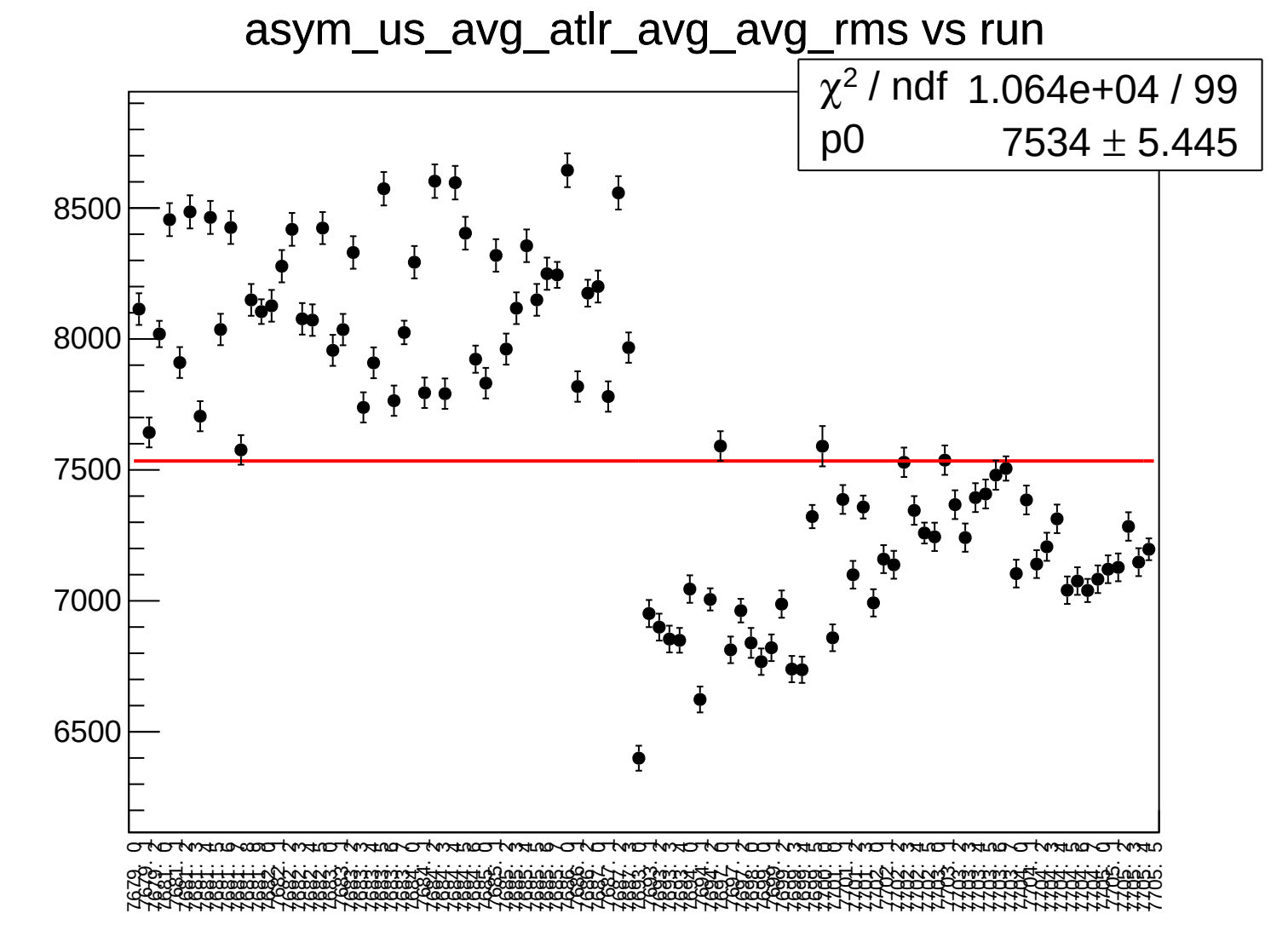

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 104 / 99
p0 1.244e+04 ± 7467
pull
Entries 100
Mean −568.2
Std Dev 0

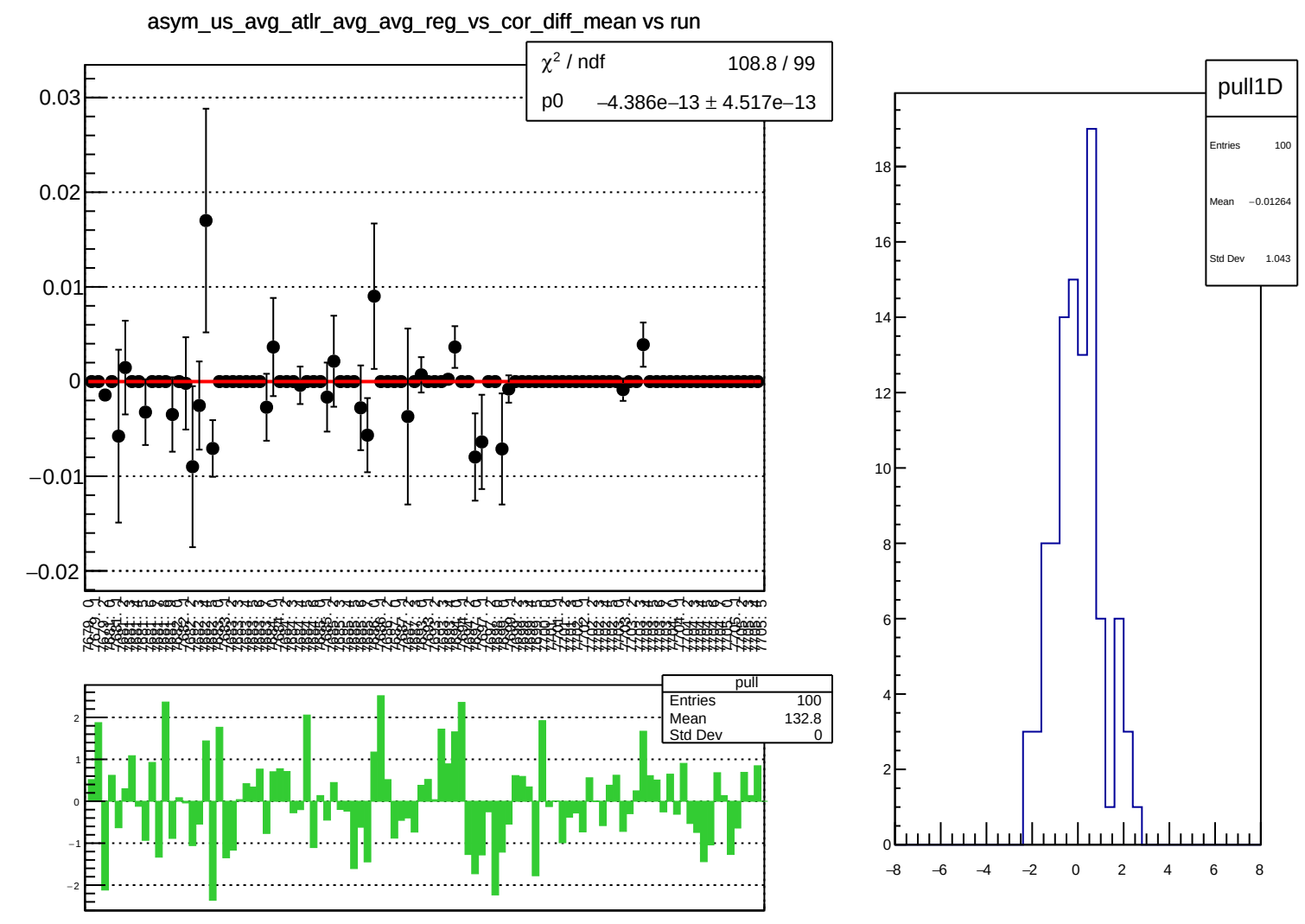

pull1D
Entries 100
Mean −0.006988
Std Dev 1.02

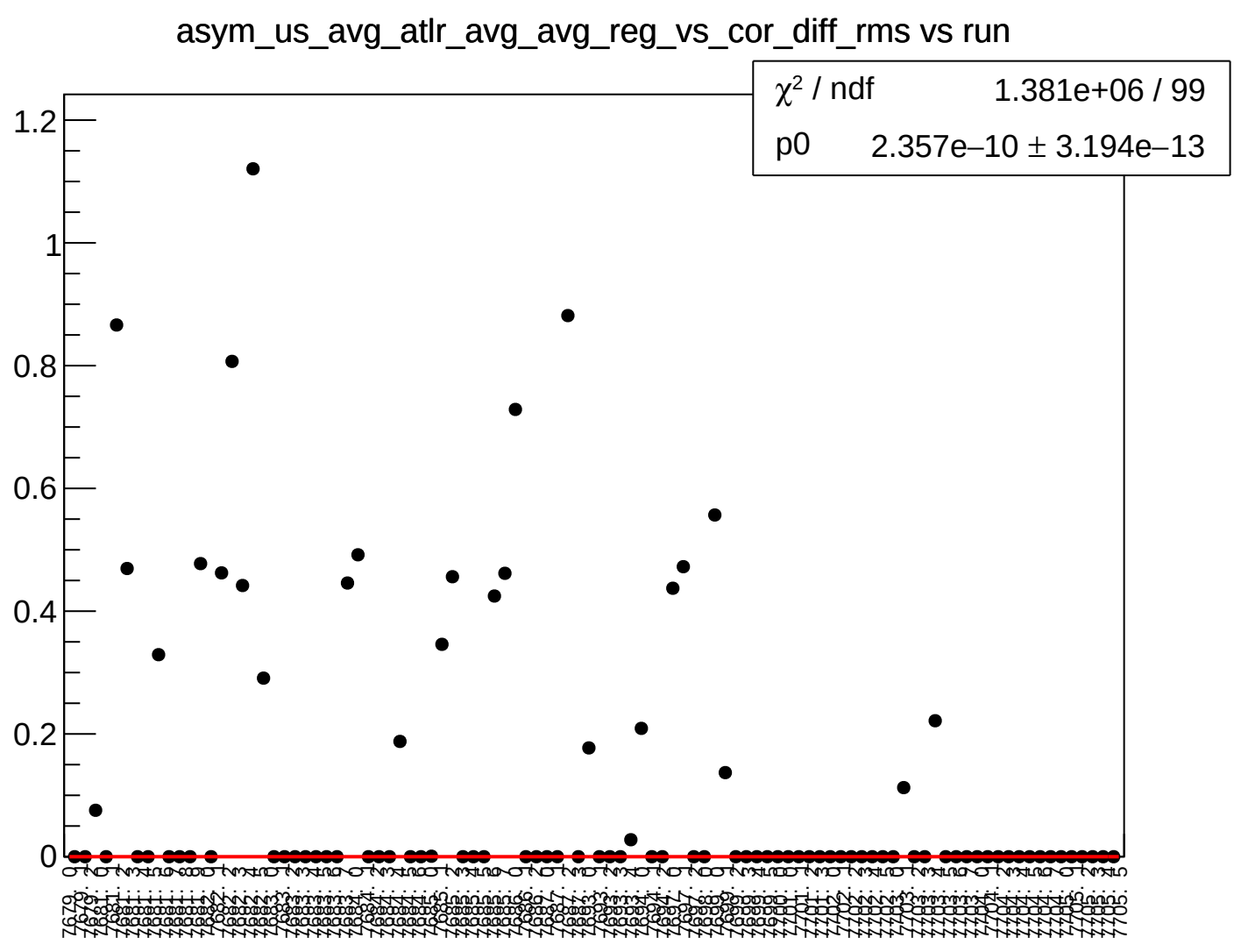

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 7359 / 99
p0 7312 ± 5.28
8500
8000
7500
7000
6500
6000

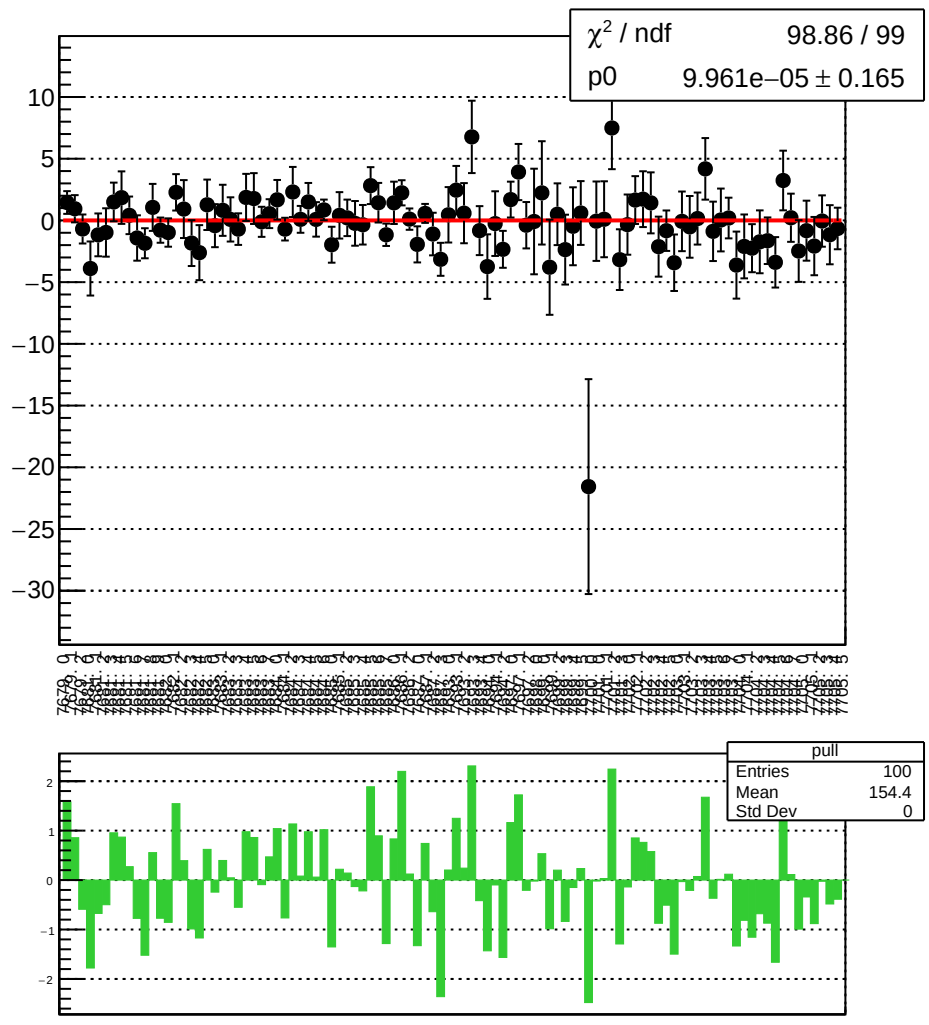

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 98.22 / 99
p0 −1.536e+04 ± 7700
300
200
100
0
−100
−200
−300
pull
Entries 100
Mean −1531
Std Dev 0
3
2
1
0
−1
−2

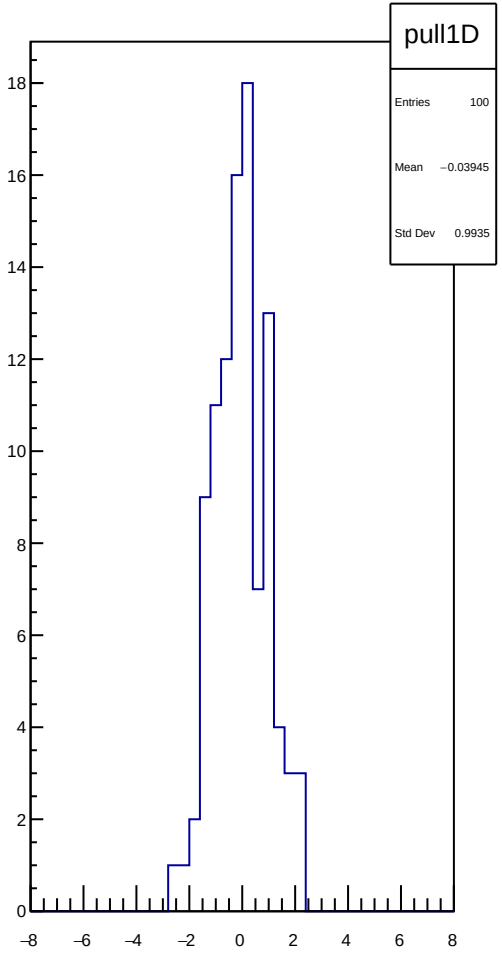

pull1D
Entries 100
Mean 0.002223
Std Dev 0.9911
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

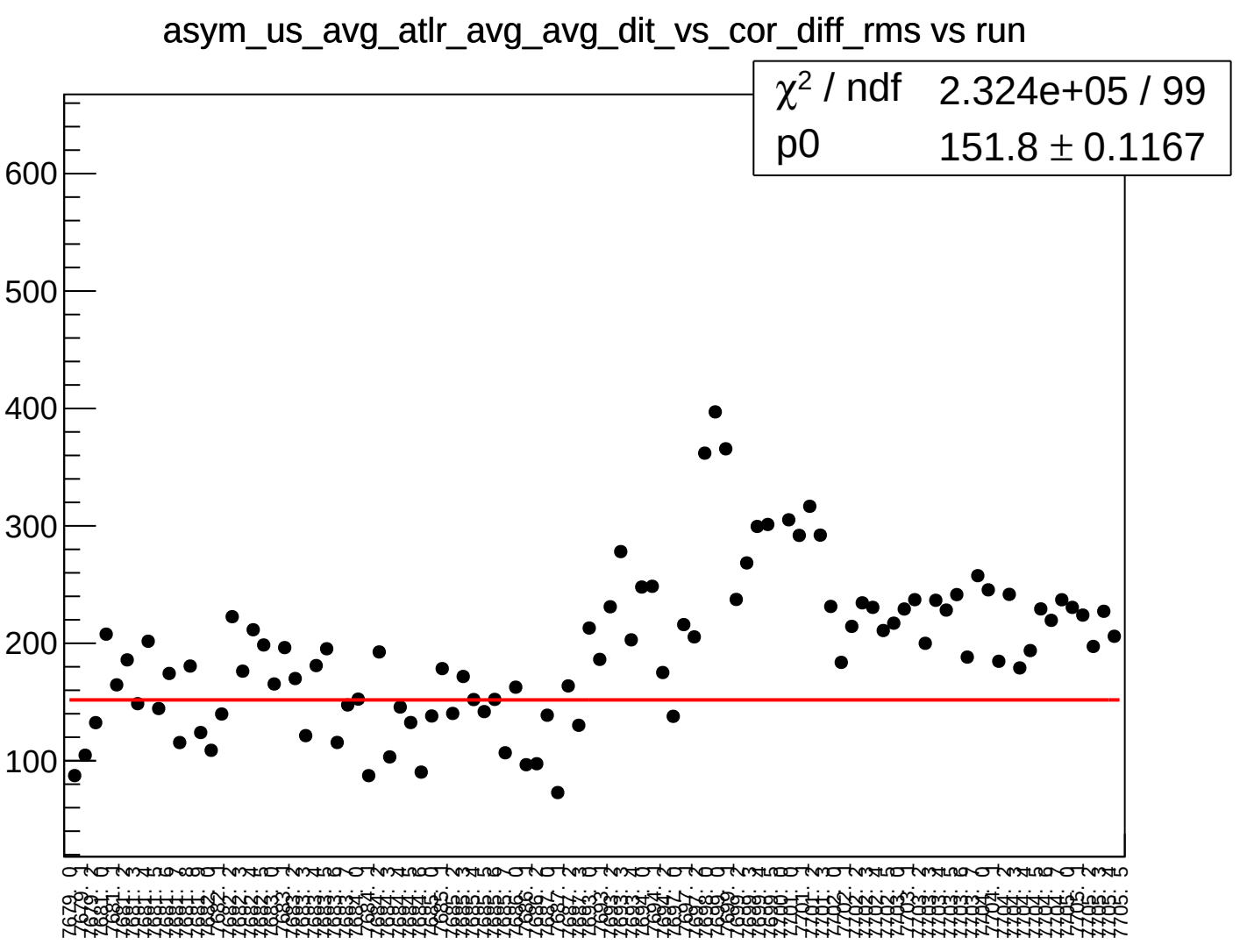

asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 1.064e+04 / 99
p0 7534 ± 5.445
8500
8000
7500
7000
6500

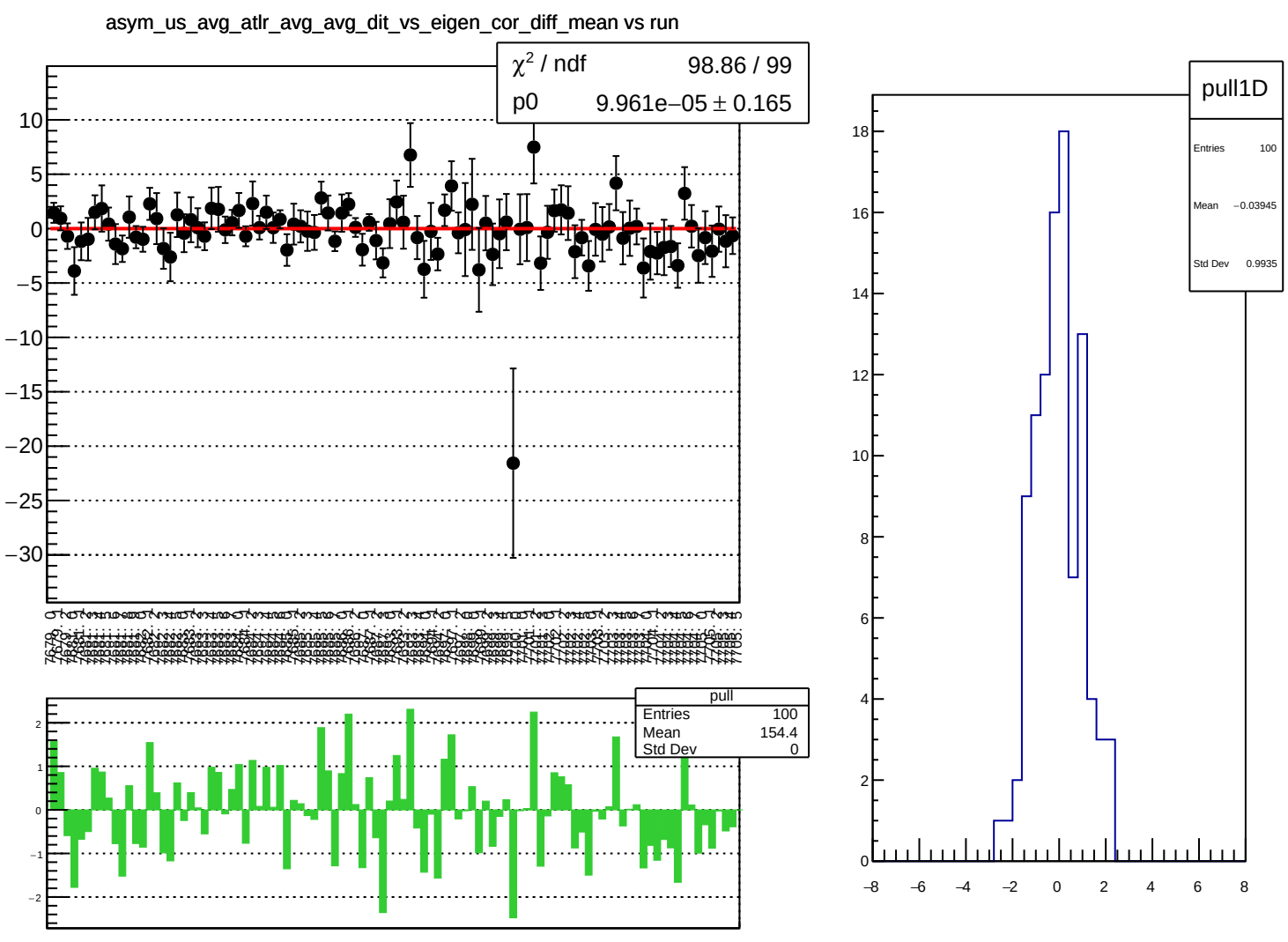

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 108.8 / 99
p0 −4.386e−13 ± 4.517e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 100
Mean 132.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.01264
Std Dev 1.043
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

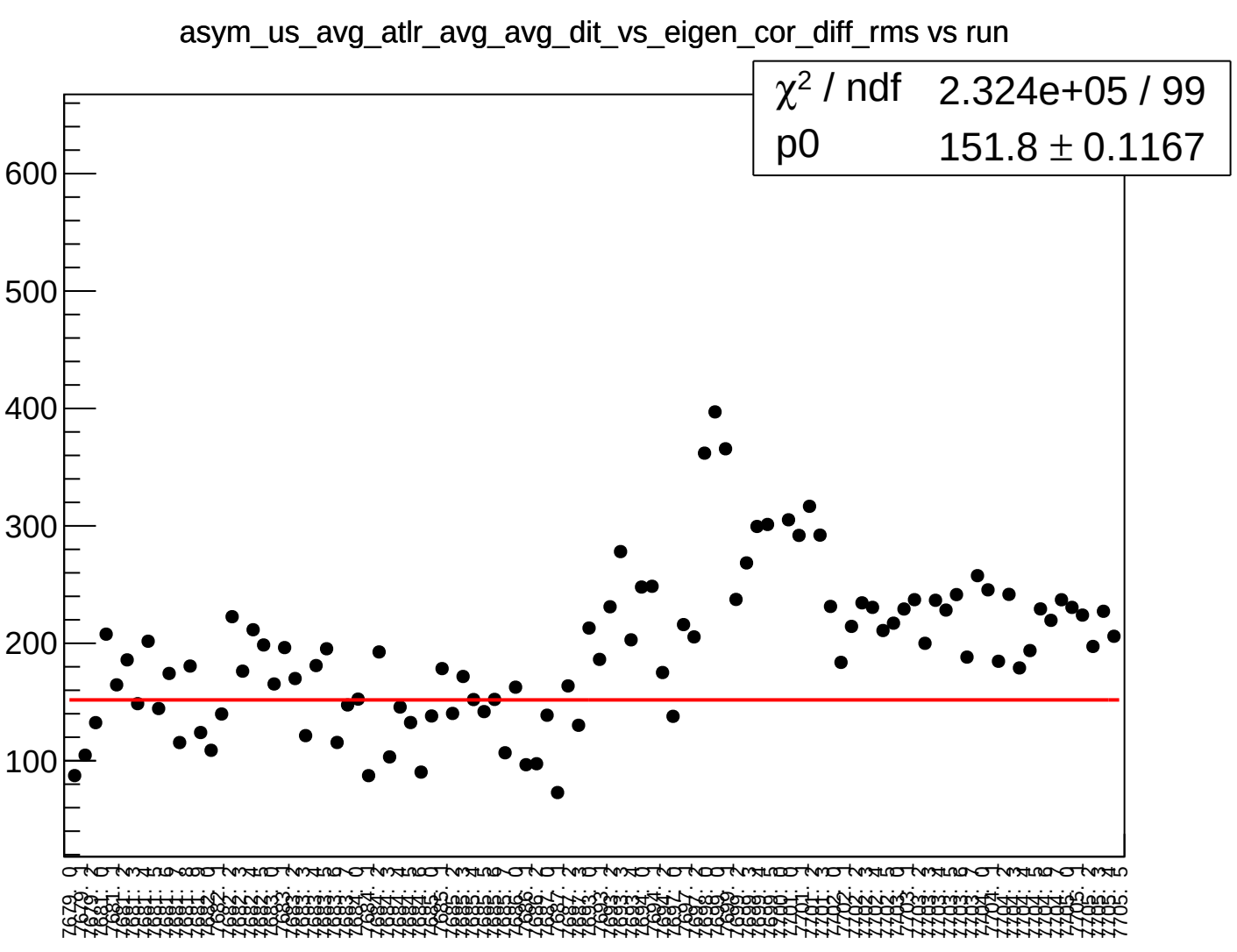

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.381e+06 / 99
p0 2.357e−10 ± 3.194e−13
1.2
1
0.8
0.6
0.4
0.2
0

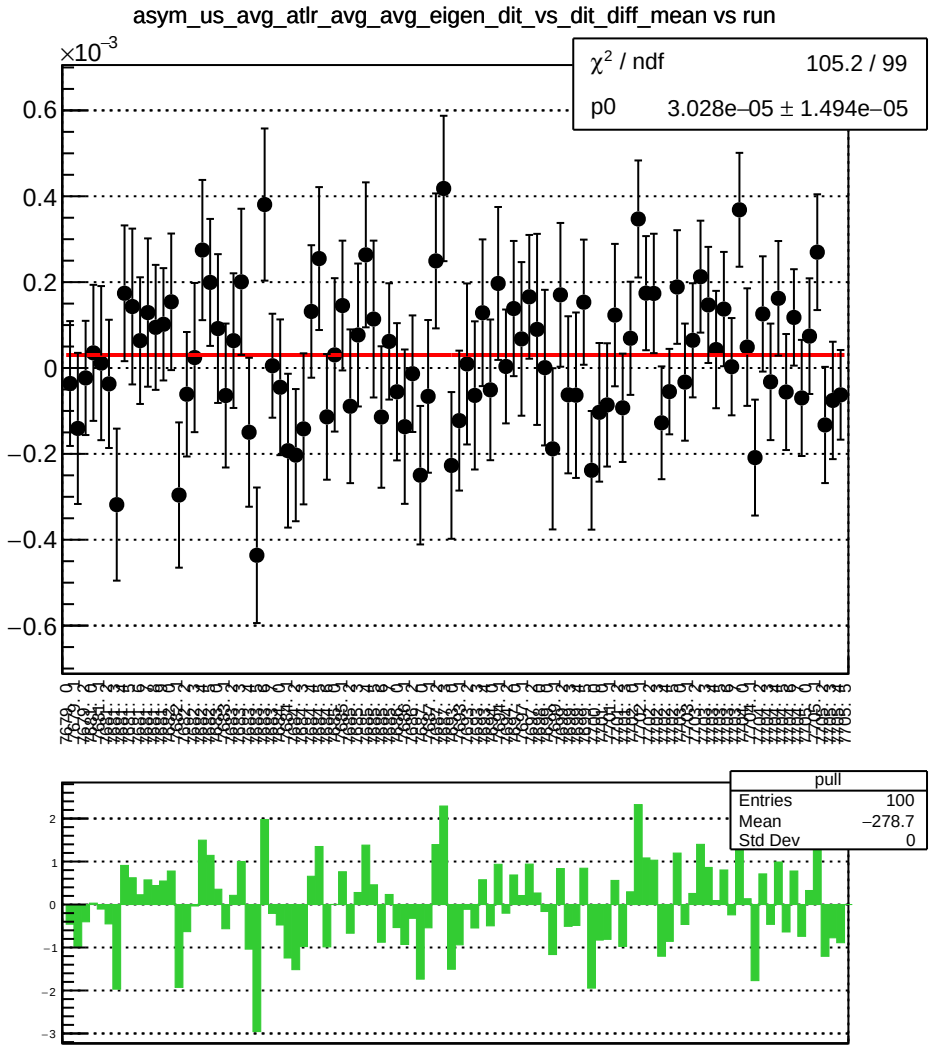

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 98.86 / 99
p0 9.961e−05 ± 0.165
pull
Entries 100
Mean 154.4
Std Dev 0

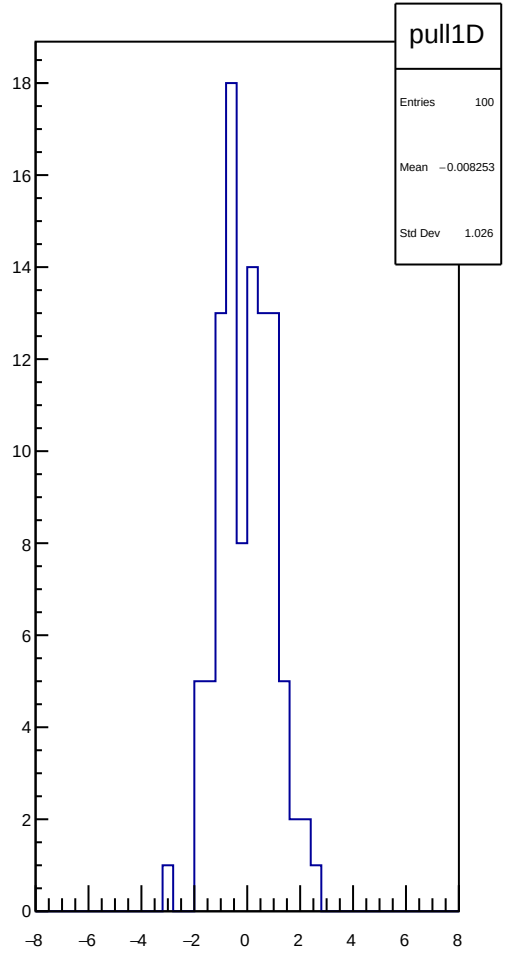

pull1D
Entries 100
Mean −0.03945
Std Dev 0.9935

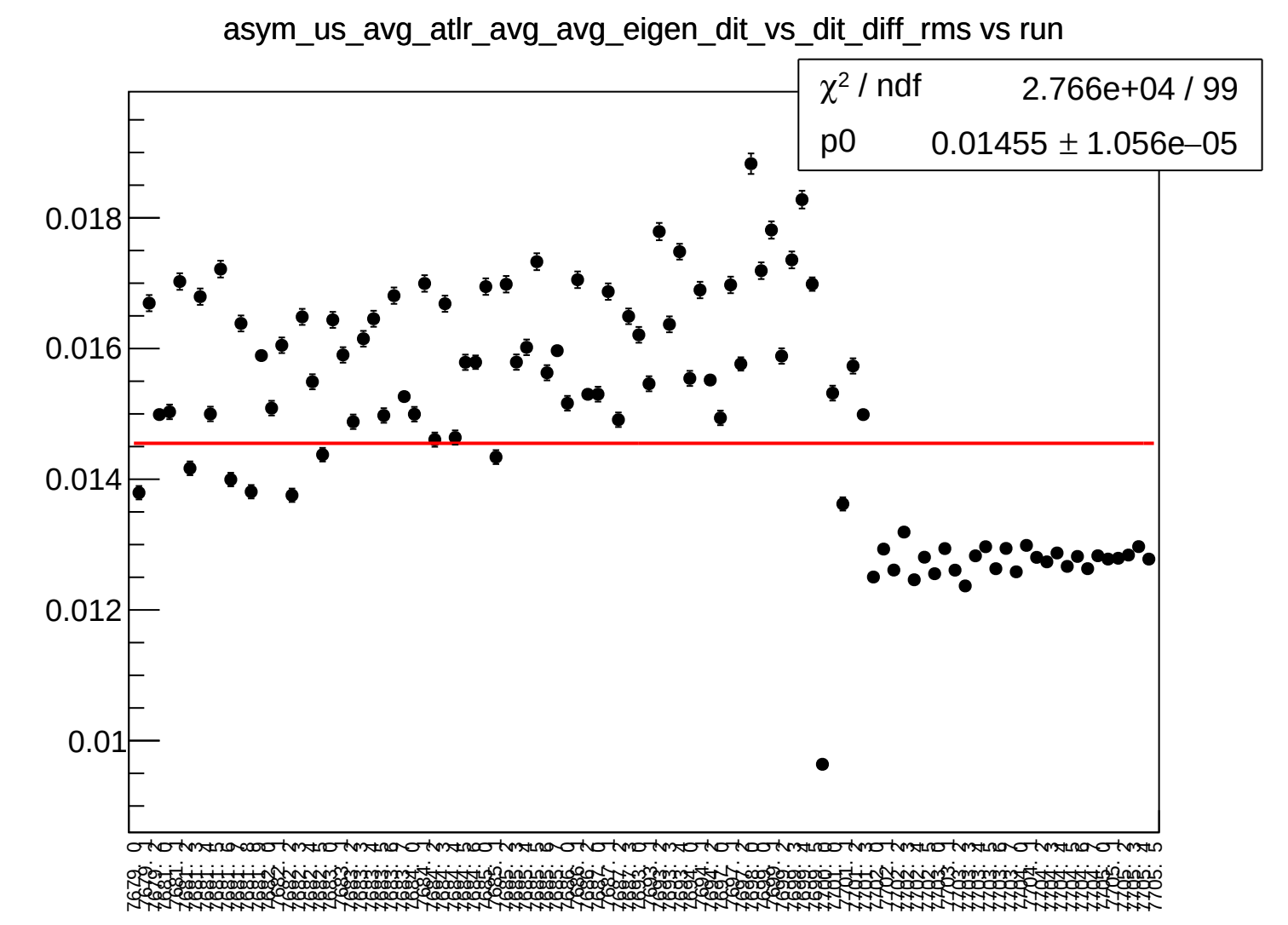

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.324e+05 / 99
p0 151.8 ± 0.1167
600
500
400
300
200
100

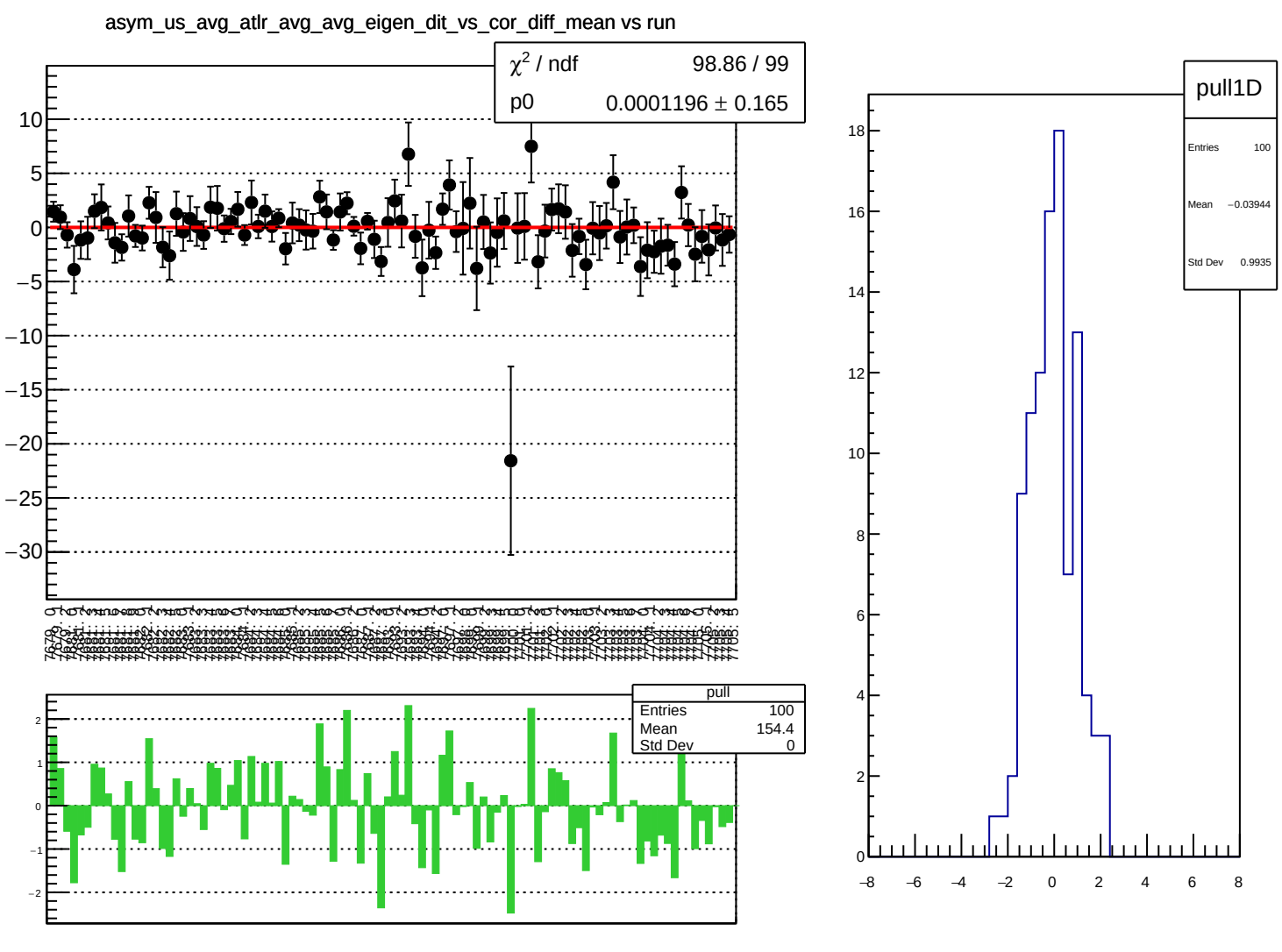

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.86 / 99
p0 9.961e−05 ± 0.165
pull
Entries 100
Mean 154.4
Std Dev 0
pull1D
Entries 100
Mean −0.03945
Std Dev 0.9935

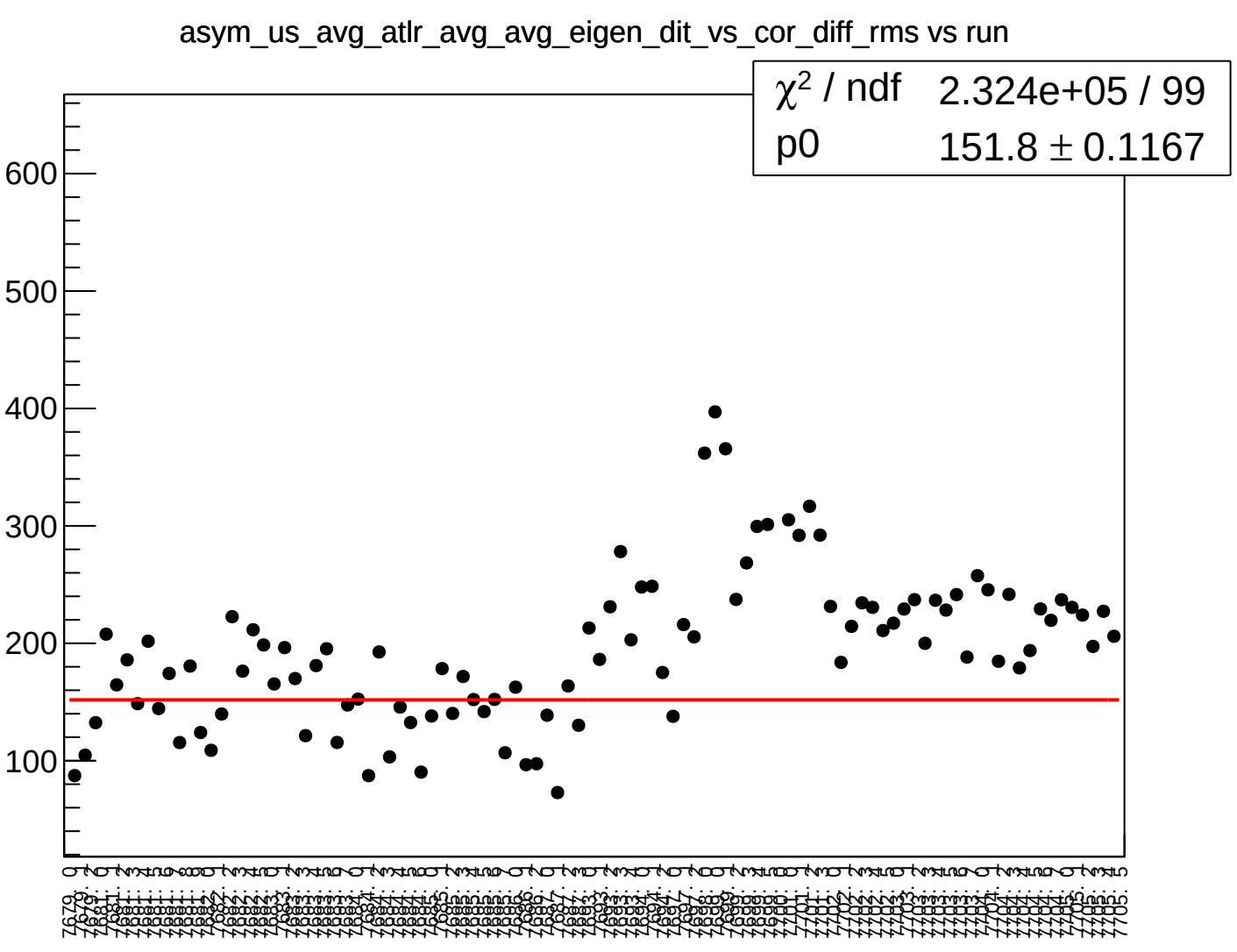

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.324e+05 / 99
p0 151.8 ± 0.1167
600
500
400
300
200
100

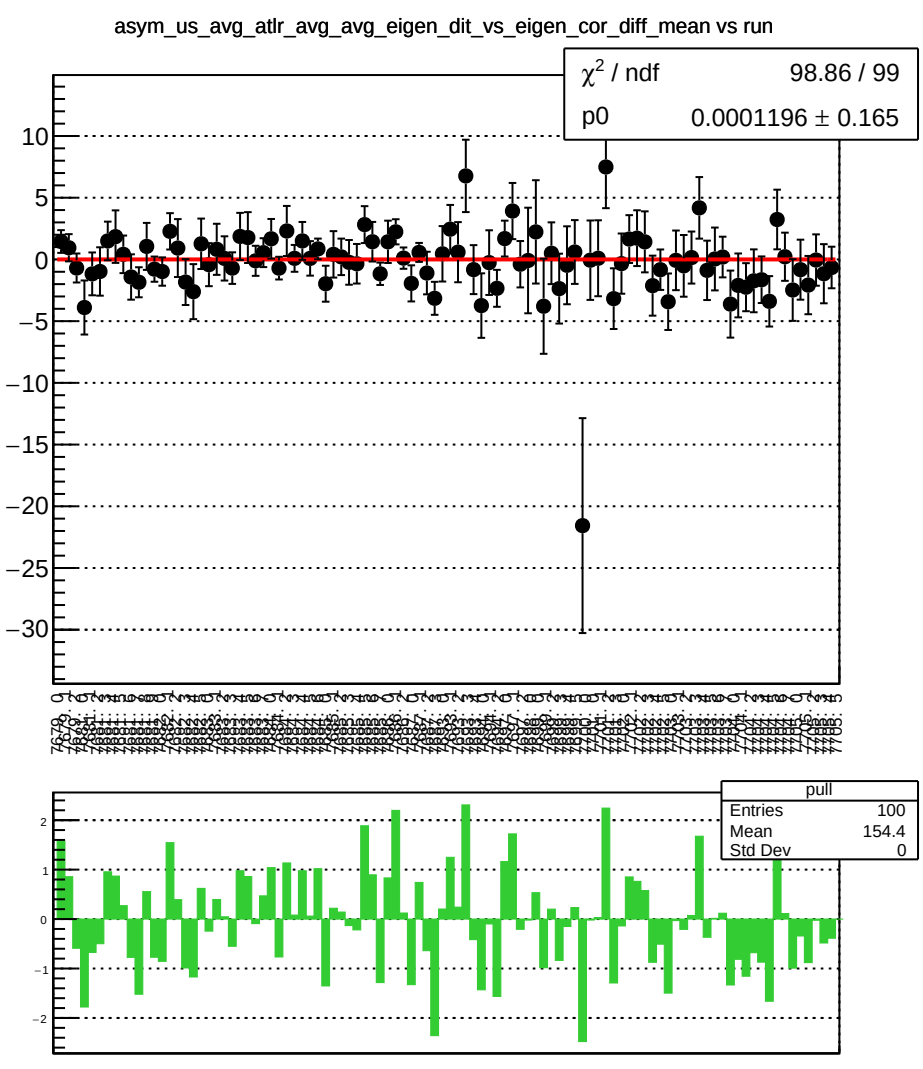

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 105.2 / 99
p0 3.028e−05 ± 1.494e−05
pull
Entries 100
Mean −278.7
Std Dev 0

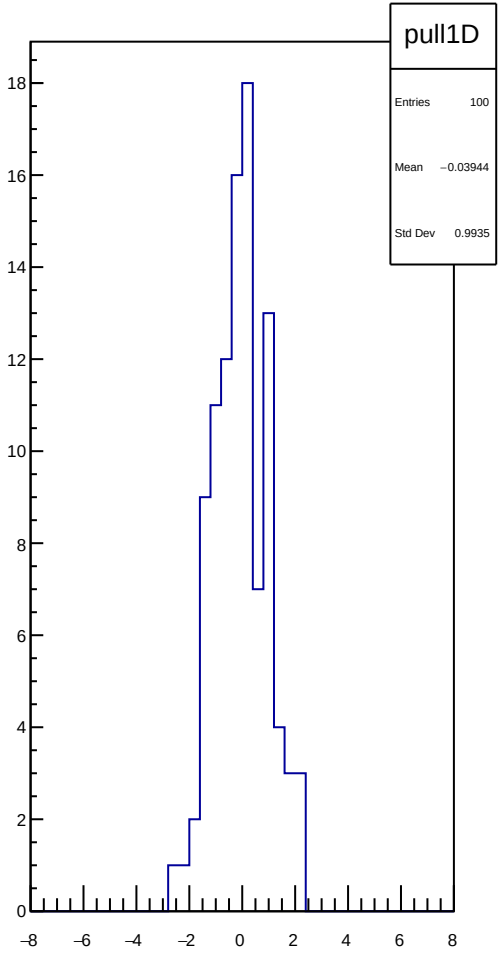

pull1D
Entries 100
Mean −0.008253
Std Dev 1.026

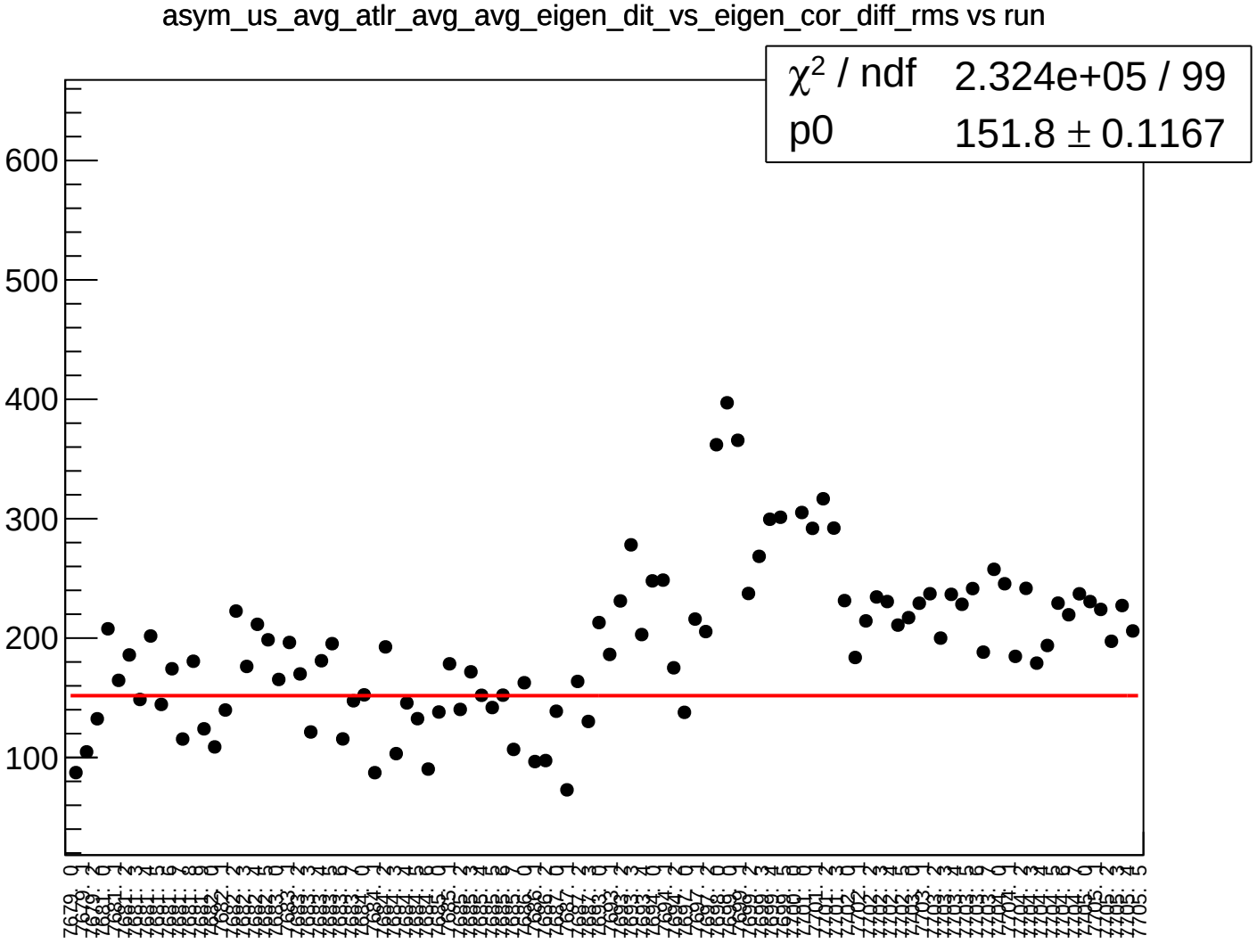

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.766e+04 / 99
p0 0.01455 ± 1.056e–05
0.018
0.016
0.014
0.012
0.01

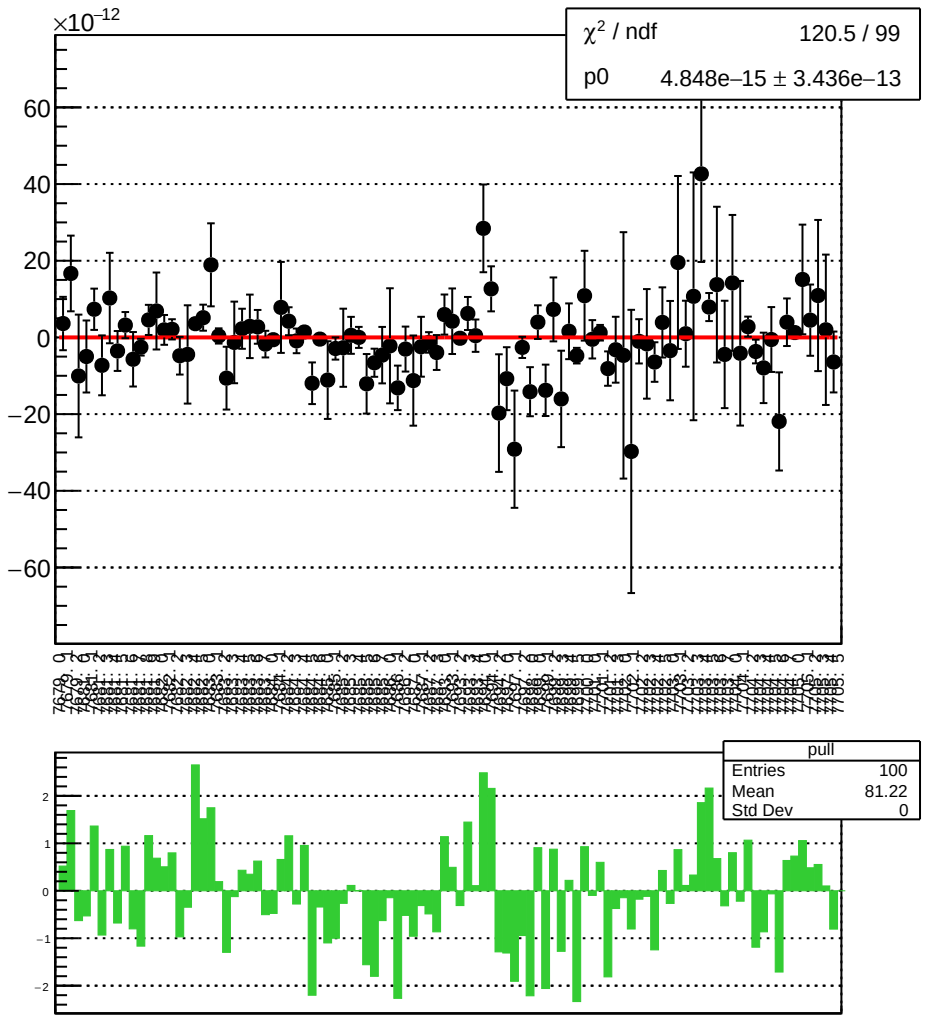

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.86 / 99
p0 0.0001196 ± 0.165
pull
Entries 100
Mean 154.4
Std Dev 0
pull1D
Entries 100
Mean −0.03944
Std Dev 0.9935

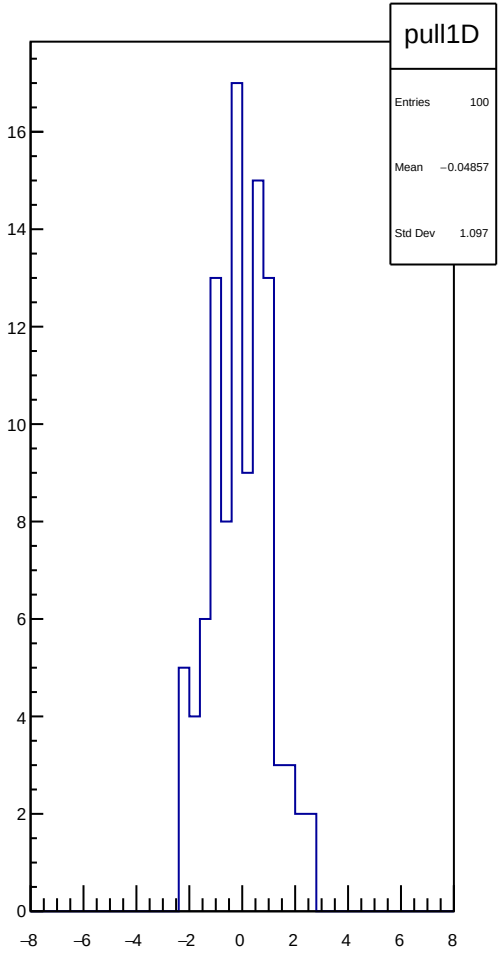

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.324e+05 / 99
p0 151.8 ± 0.1167
600
500
400
300
200
100

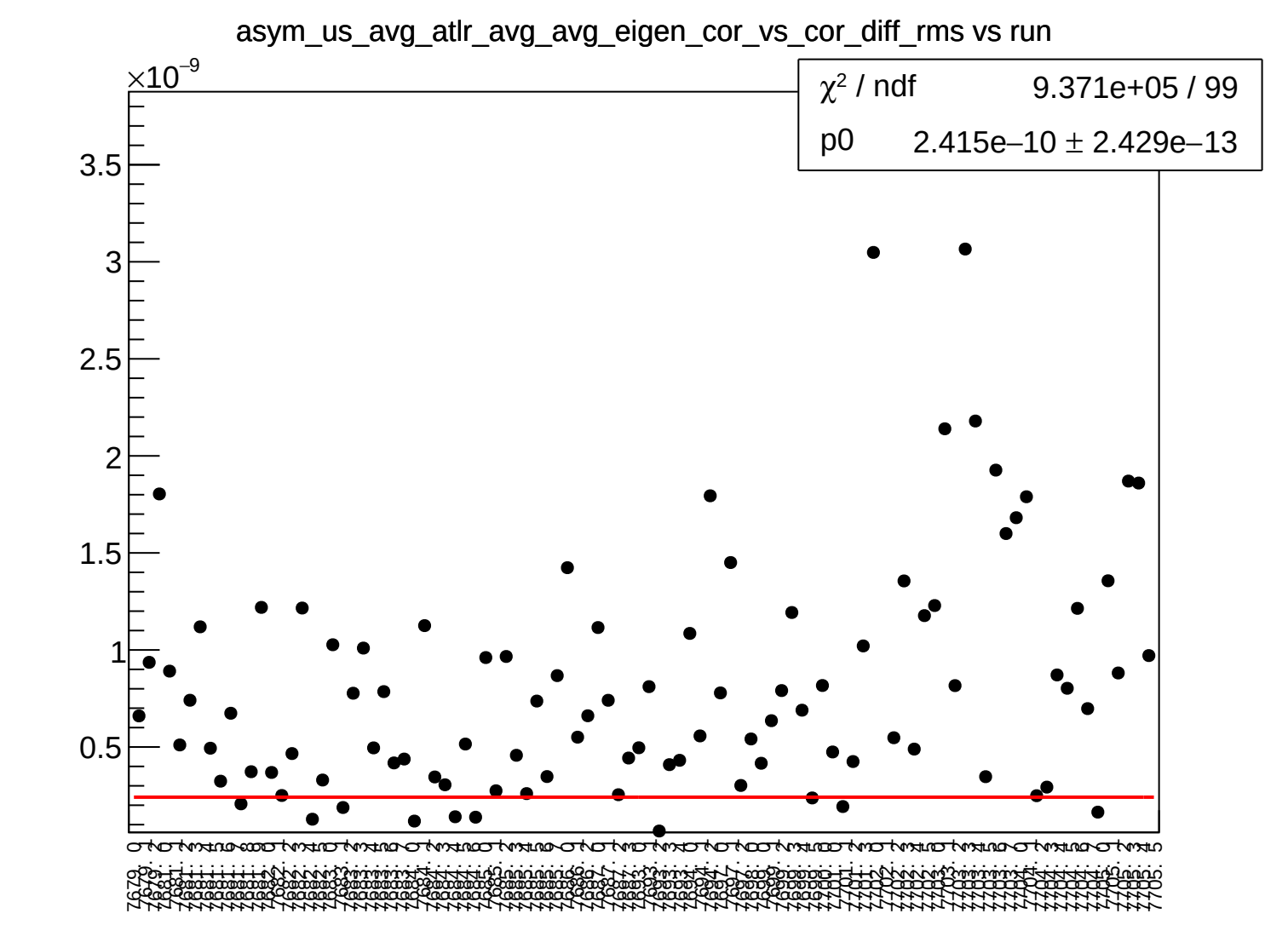

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.86 / 99
p0 0.0001196 ± 0.165
pull
Entries 100
Mean 154.4
Std Dev 0

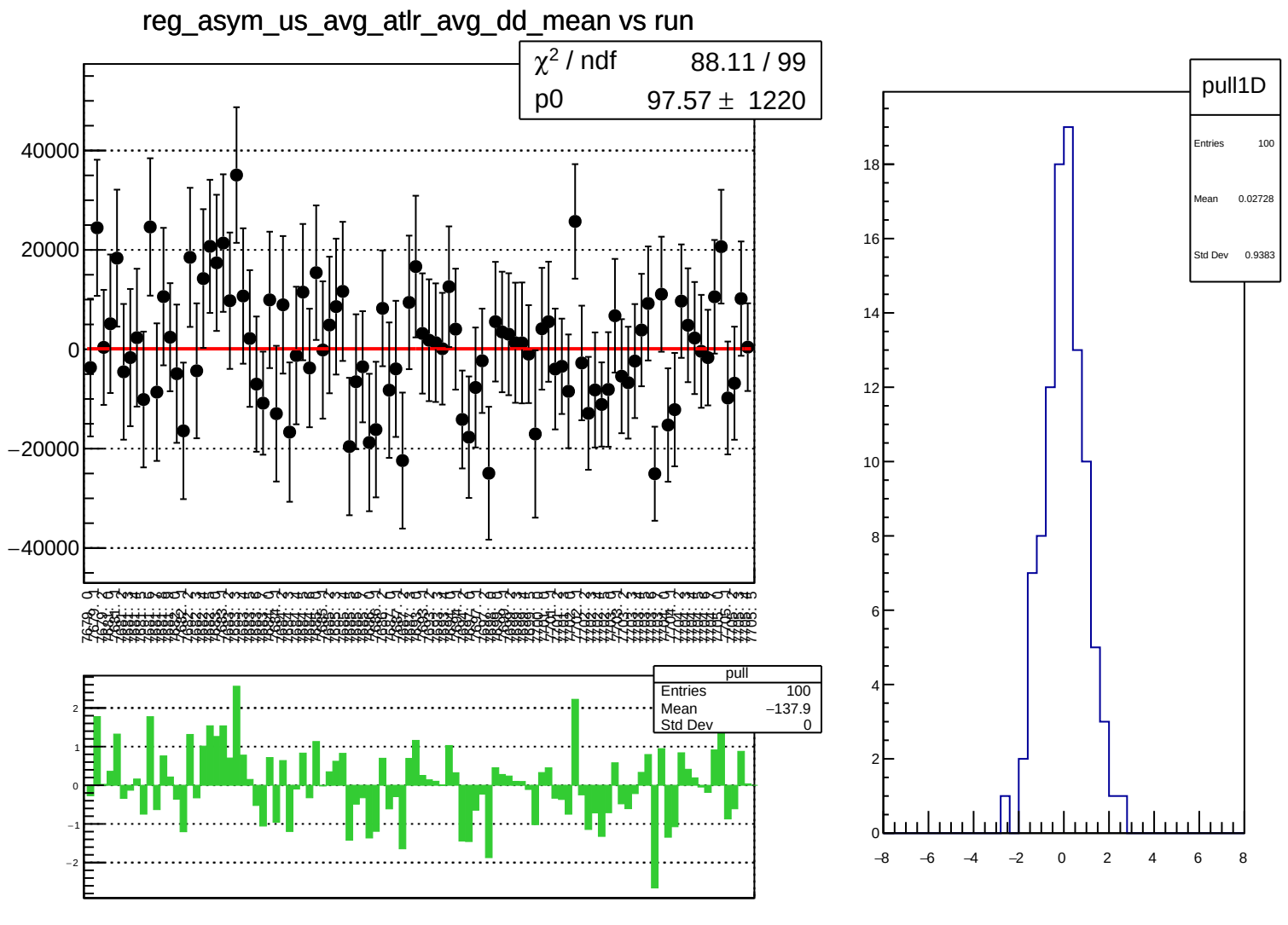

pull1D
Entries 100
Mean −0.03944
Std Dev 0.9935

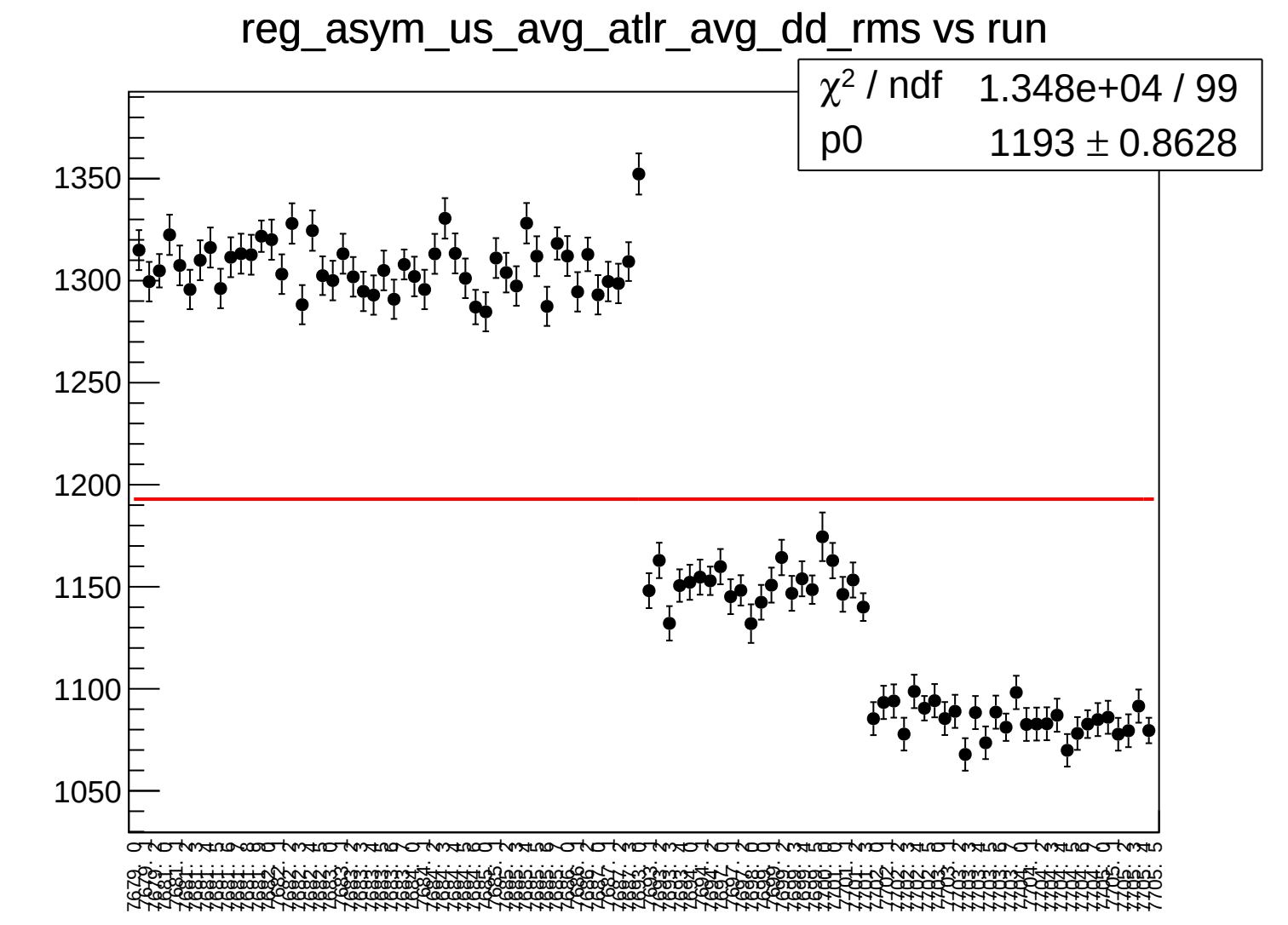

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.324e+05 / 99
p0 151.8 ± 0.1167
600
500
400
300
200
100

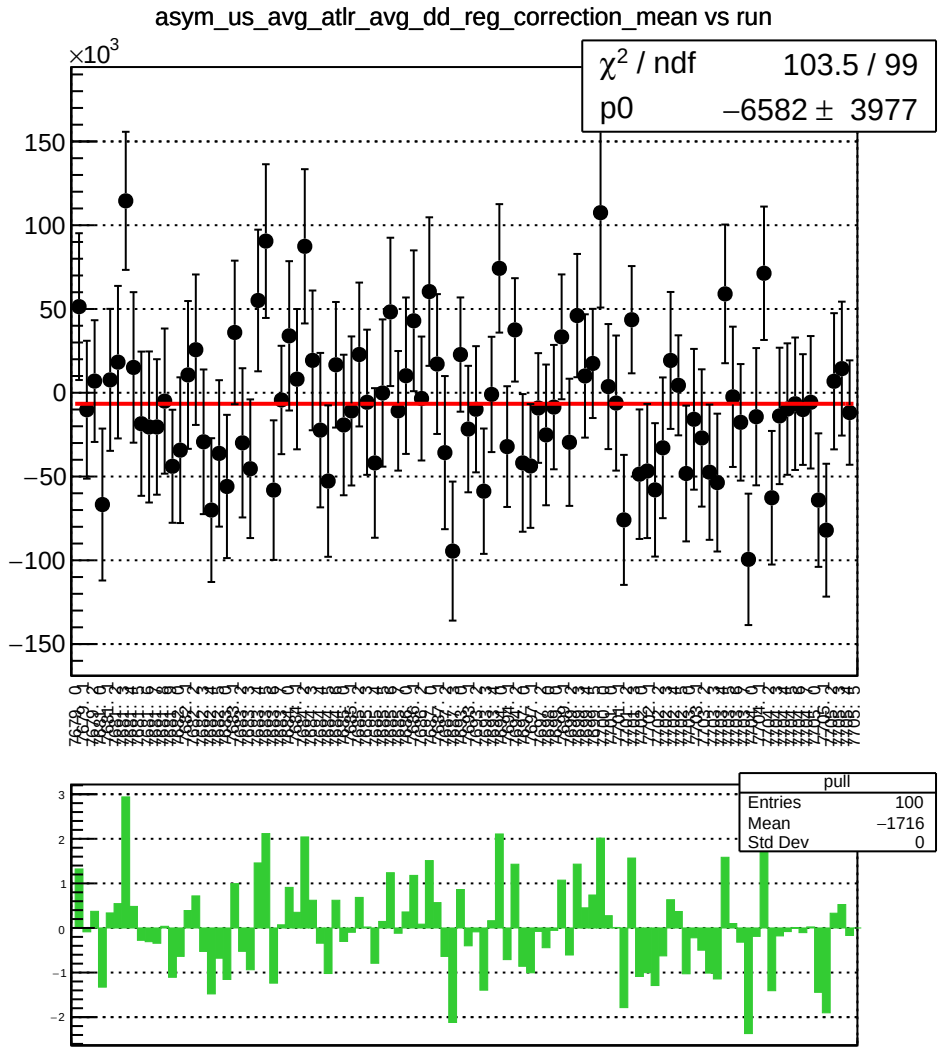

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 120.5 / 99
p0 4.848e−15 ± 3.436e−13
pull
Entries 100
Mean 81.22
Std Dev 0

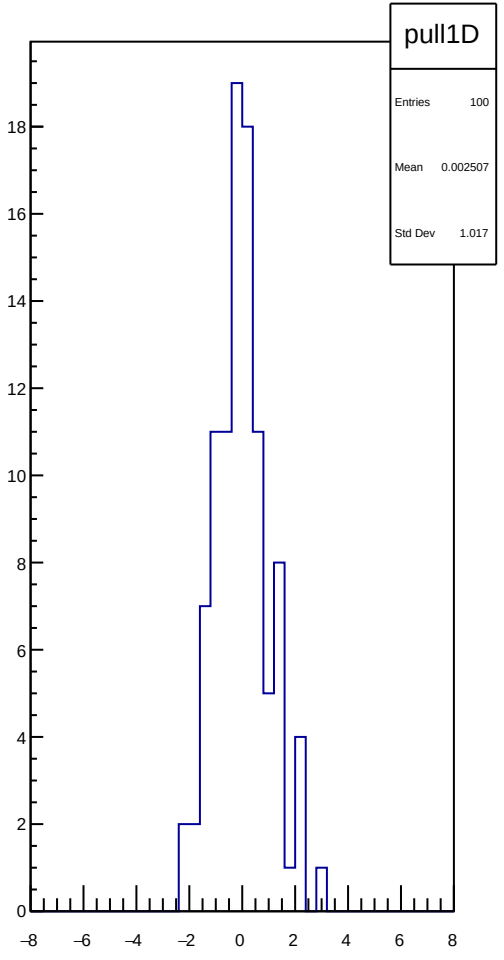

pull1D
Entries 100
Mean −0.04857
Std Dev 1.097

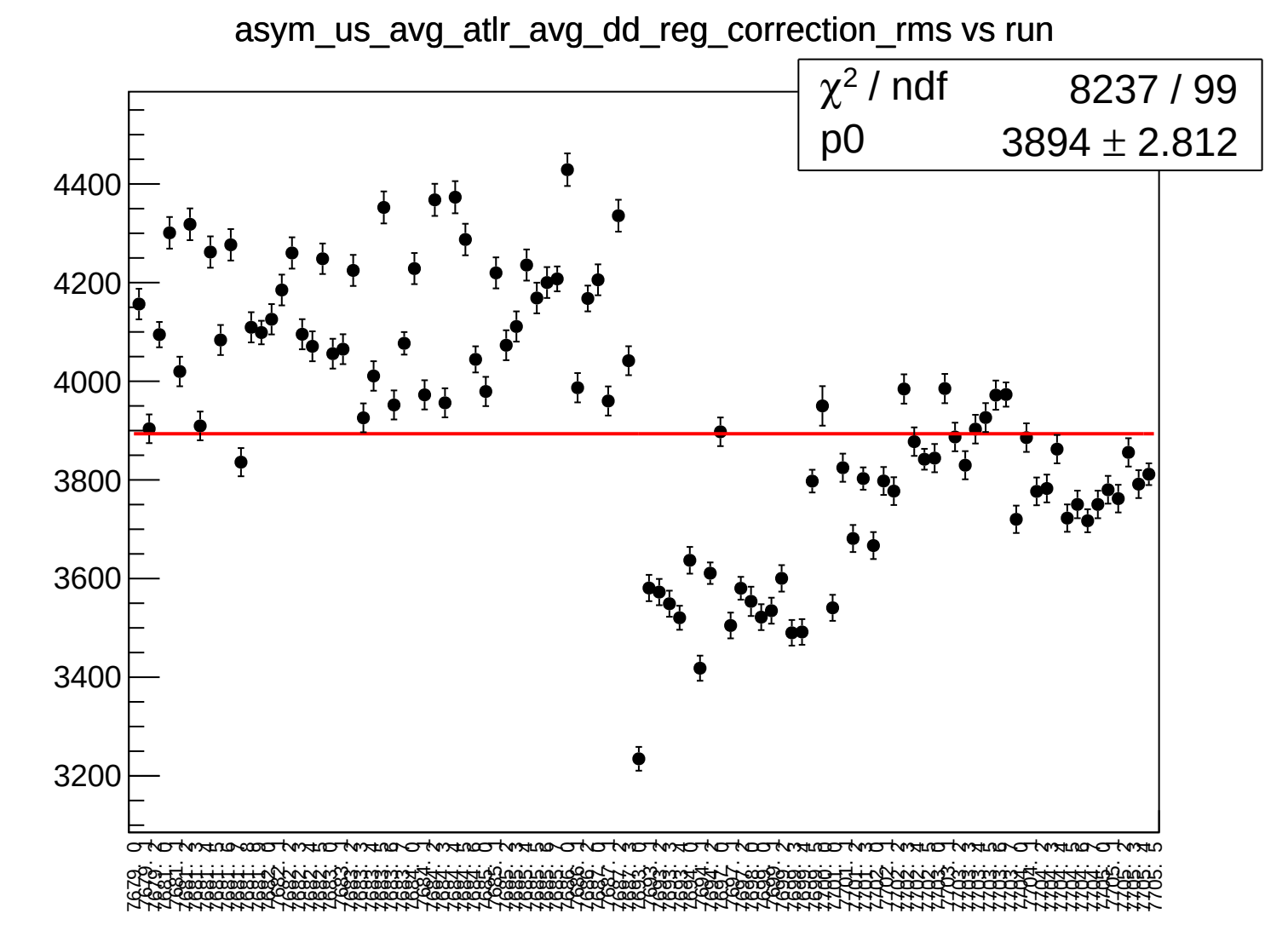

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.371e+05 / 99
p0 2.415e−10 ± 2.429e−13
3.5
3
2.5
2
1.5
1
0.5

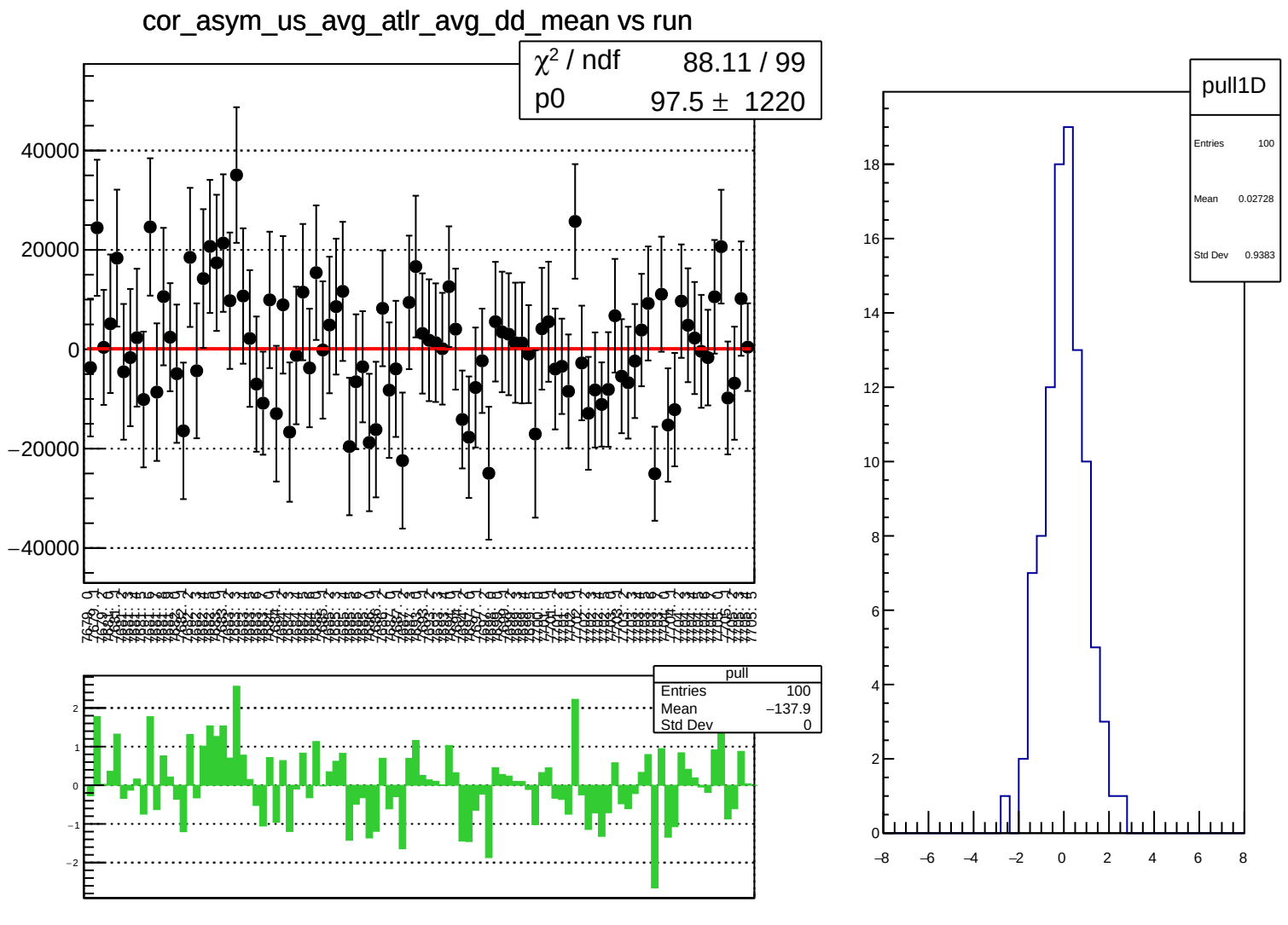

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 88.11 / 99
p0 97.57 ± 1220
40000
20000
0
−20000
−40000
pull
Entries 100
Mean −137.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.02728
Std Dev 0.9383
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

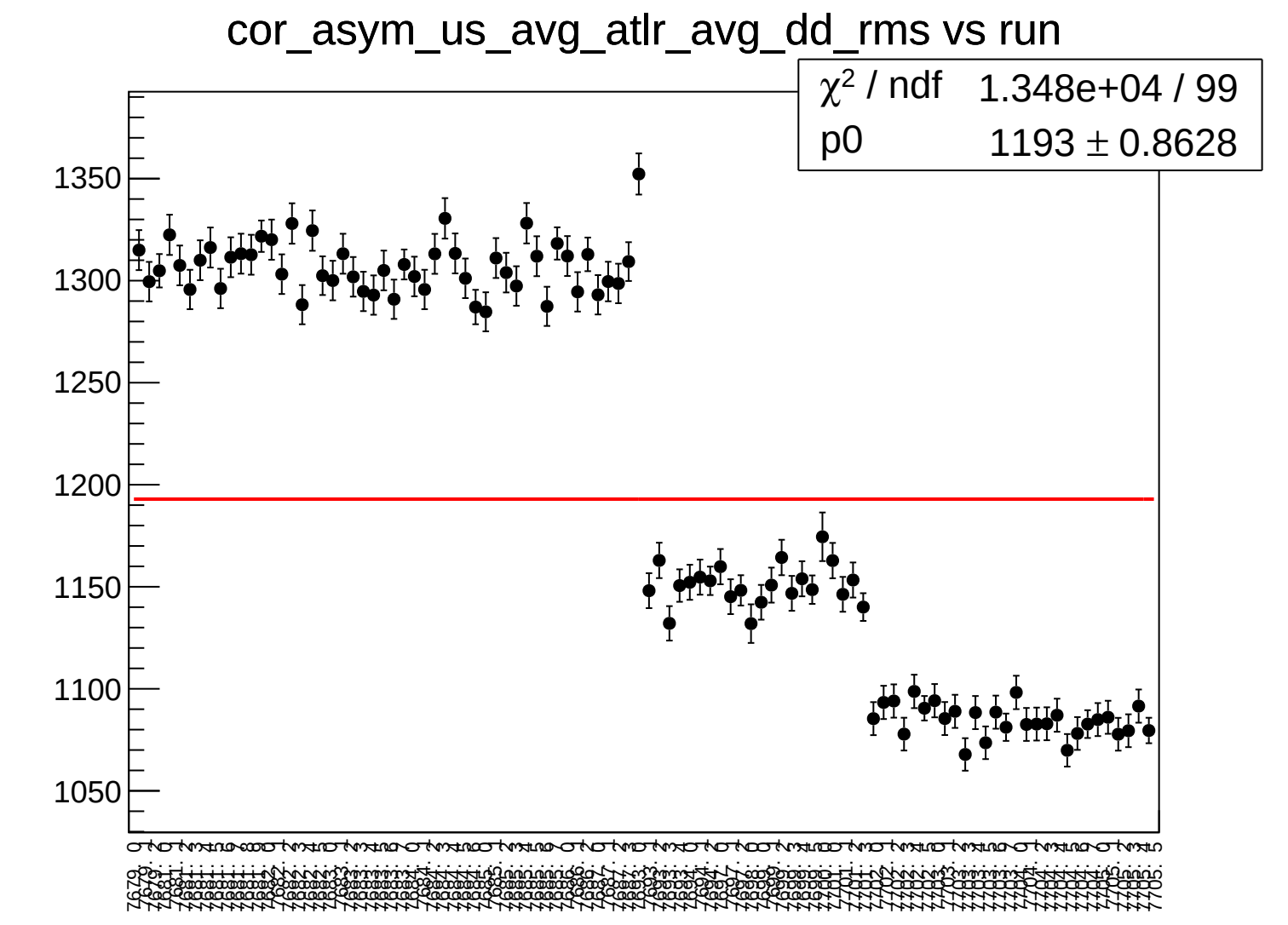

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1.348e+04 / 99
p0 1193 ± 0.8628
1350
1300
1250
1200
1150
1100
1050

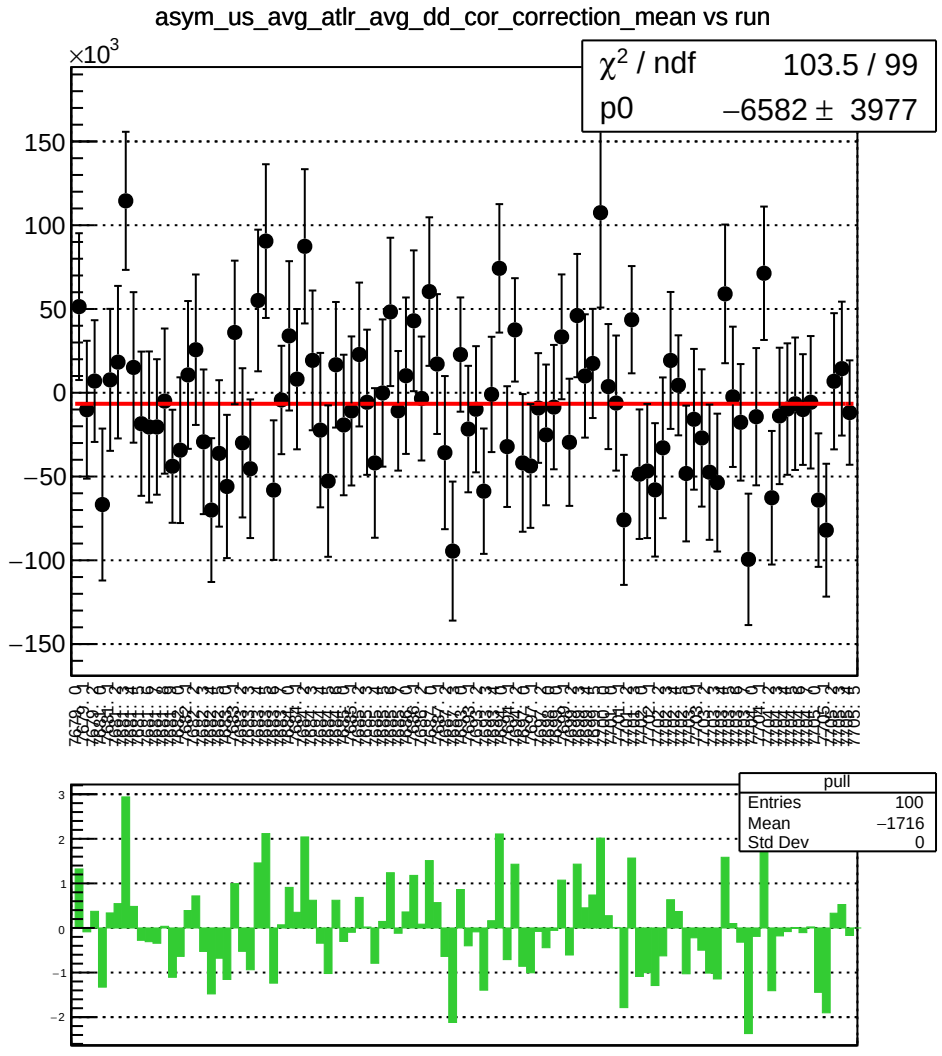

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 103.5 / 99
p0 −6582 ± 3977
150
100
50
0
−50
−100
−150
pull
Entries 100
Mean −1716
Std Dev 0
3
2
1
0
−1
−2

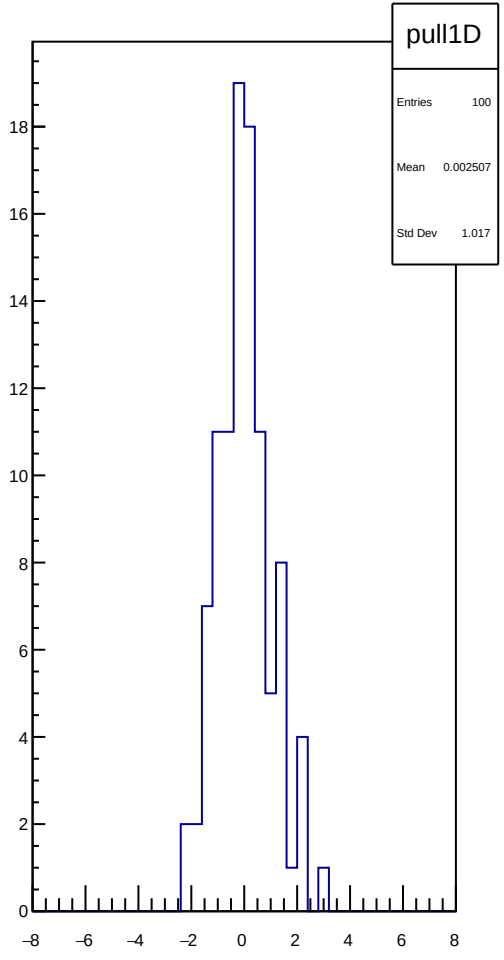

pull1D
Entries 100
Mean 0.002507
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

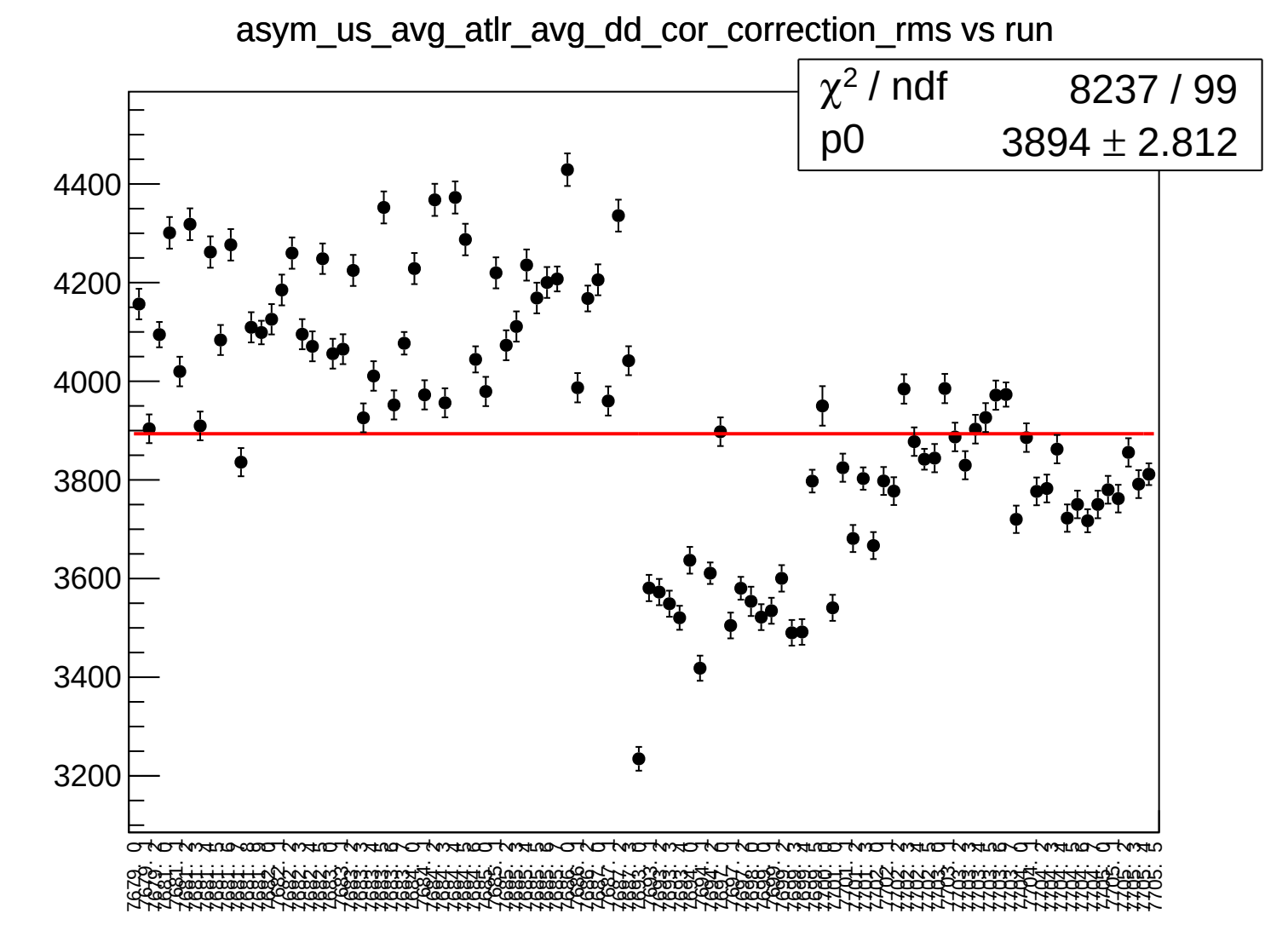

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 8237 / 99
p0 3894 ± 2.812
4400
4200
4000
3800
3600
3400
3200

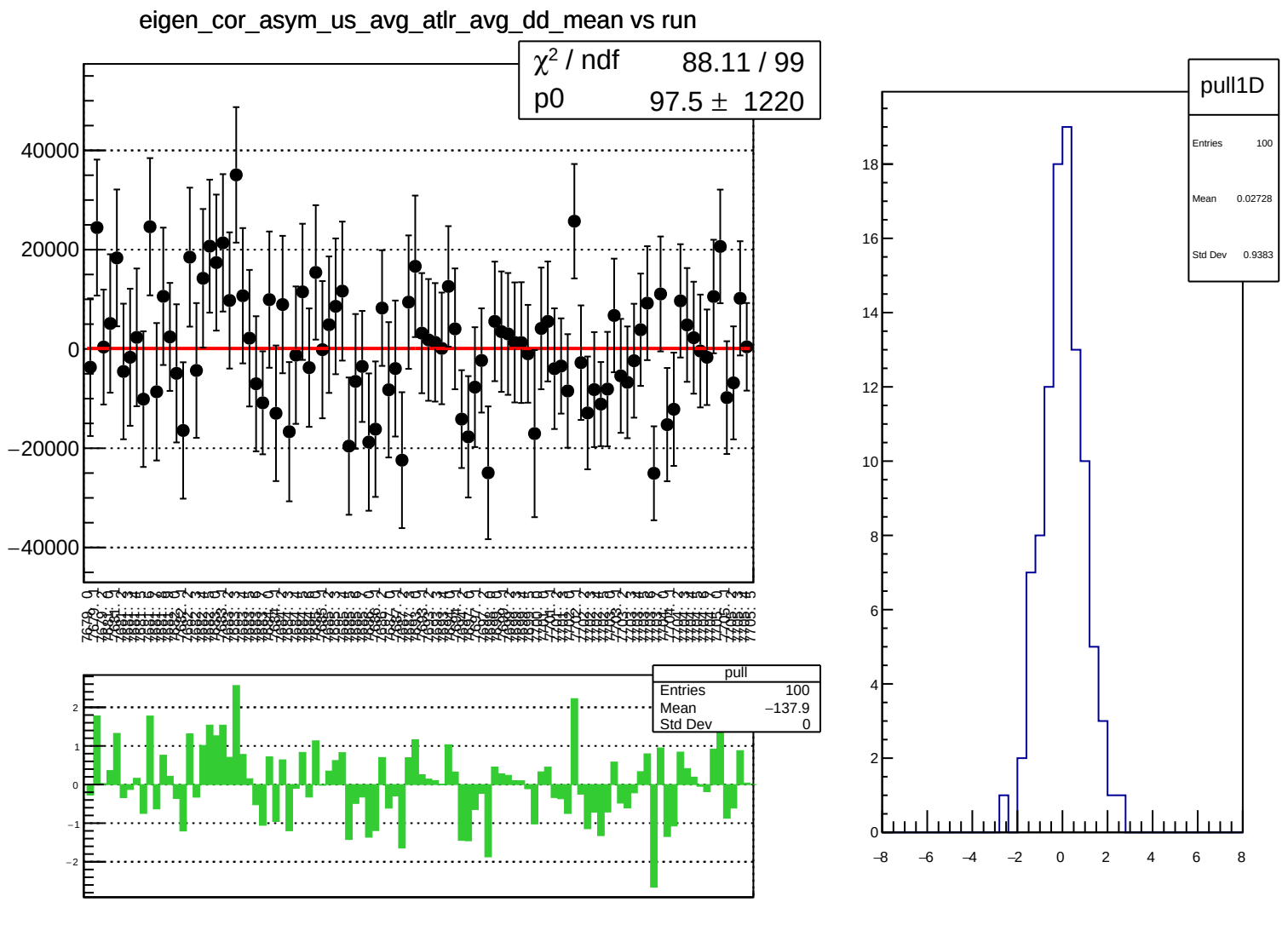

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 88.11 / 99
p0 97.5 ± 1220
40000
20000
0
−20000
−40000
pull
Entries 100
Mean −137.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.02728
Std Dev 0.9383
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

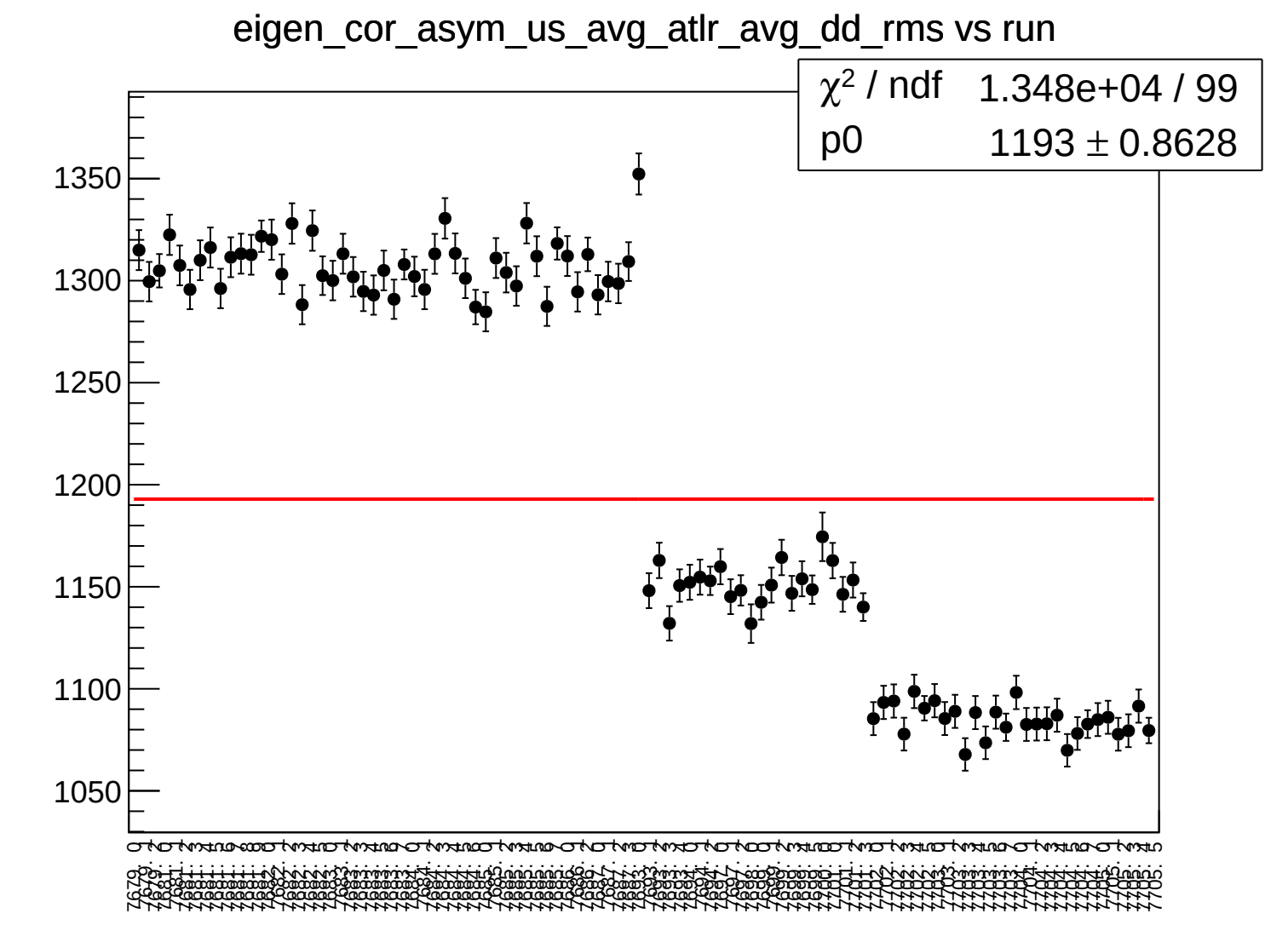

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1.348e+04 / 99
p0 1193 ± 0.8628
1350
1300
1250
1200
1150
1100
1050

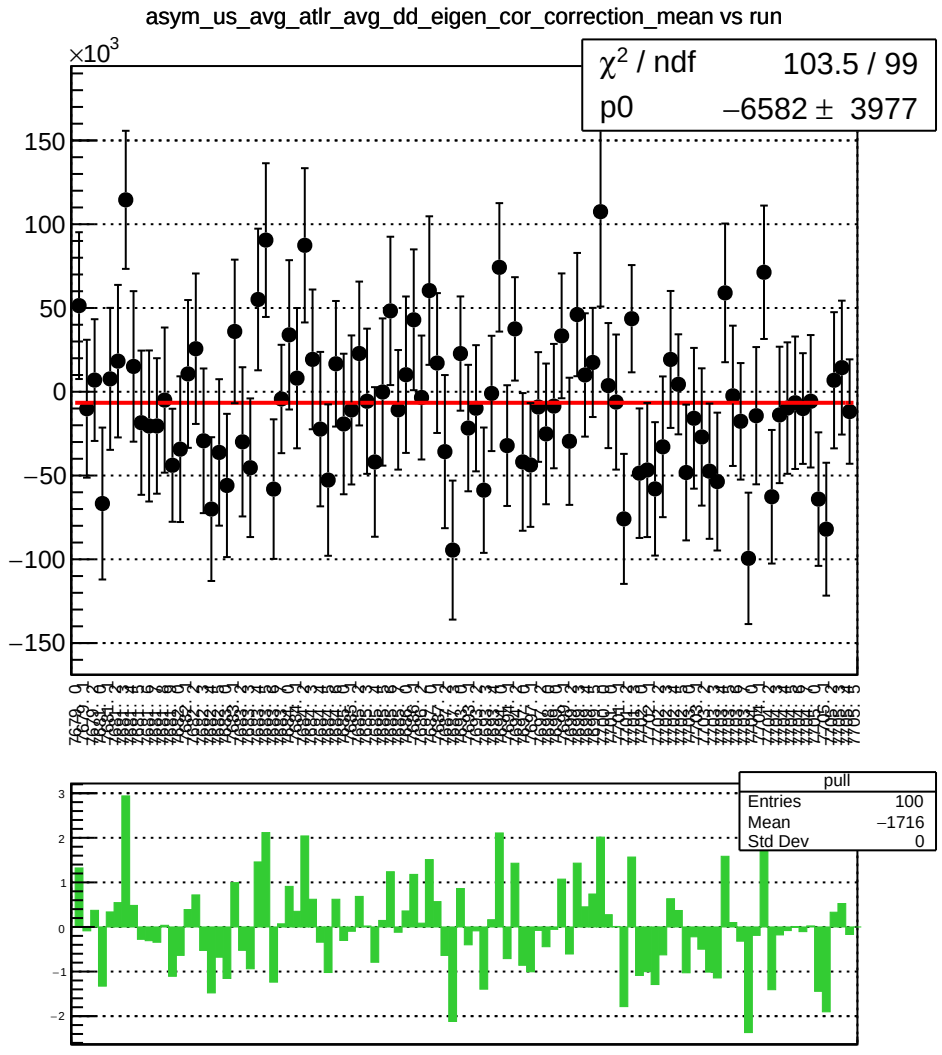

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 103.5 / 99
p0 −6582 ± 3977
150
100
50
0
−50
−100
−150
pull
Entries 100
Mean −1716
Std Dev 0
3
2
1
0
−1
−2

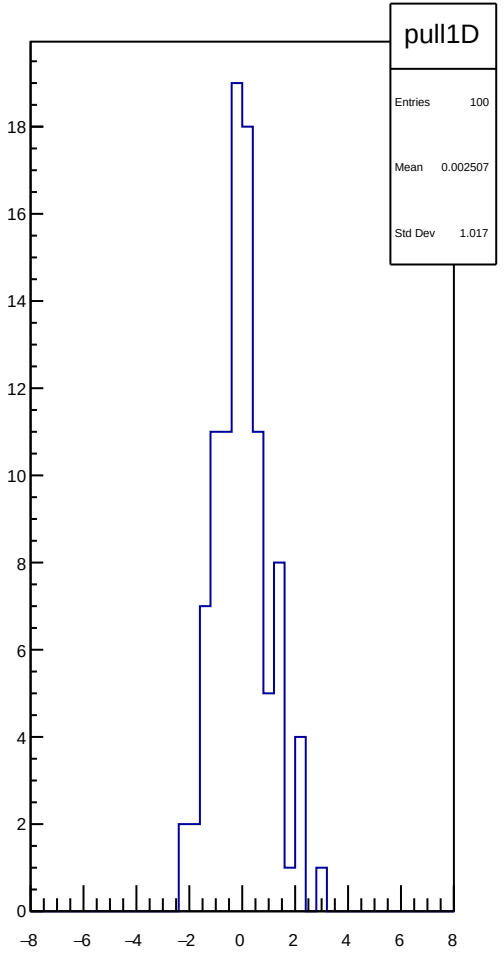

pull1D
Entries 100
Mean 0.002507
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

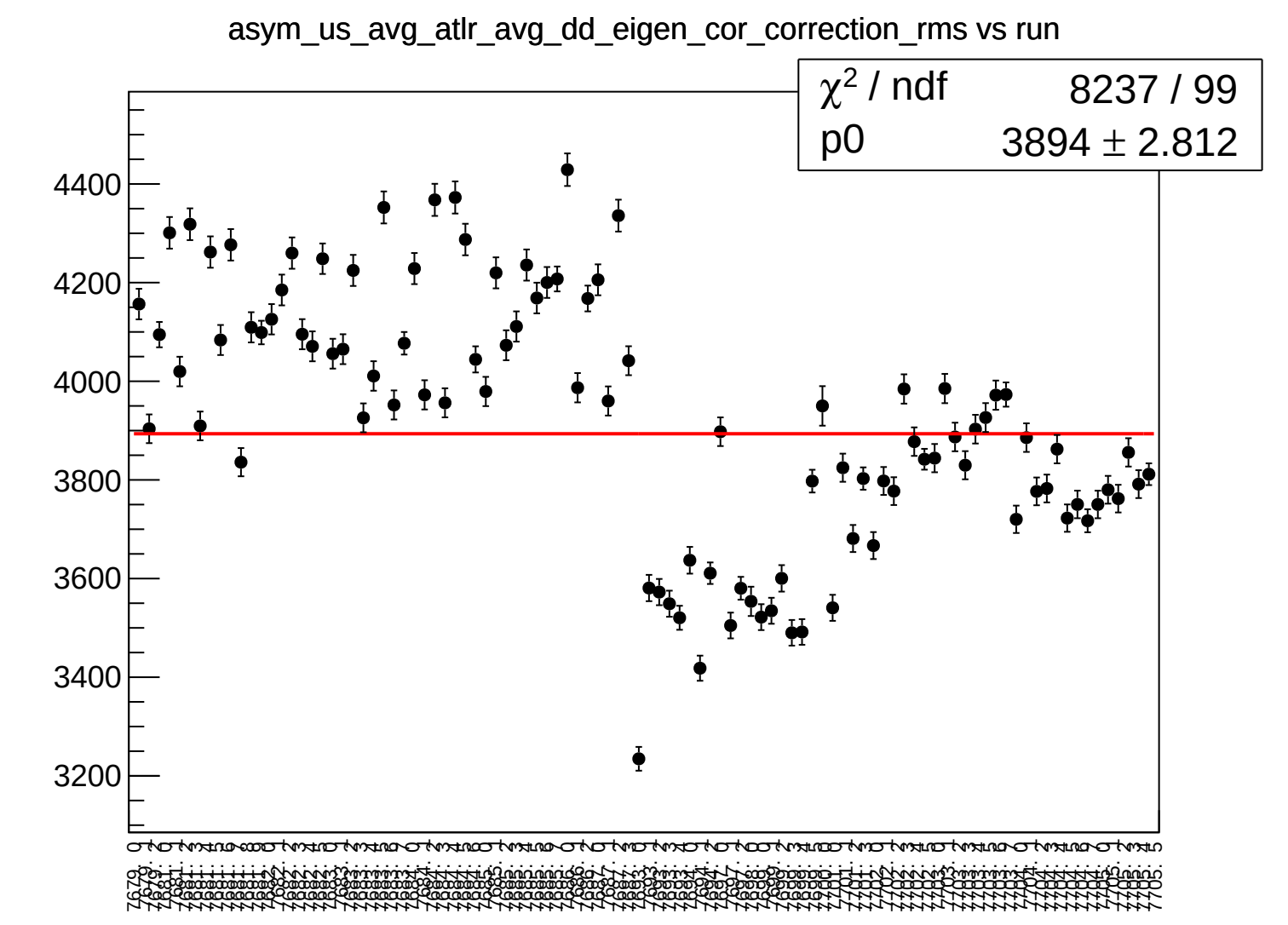

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 8237 / 99
p0 3894 ± 2.812
4400
4200
4000
3800
3600
3400
3200

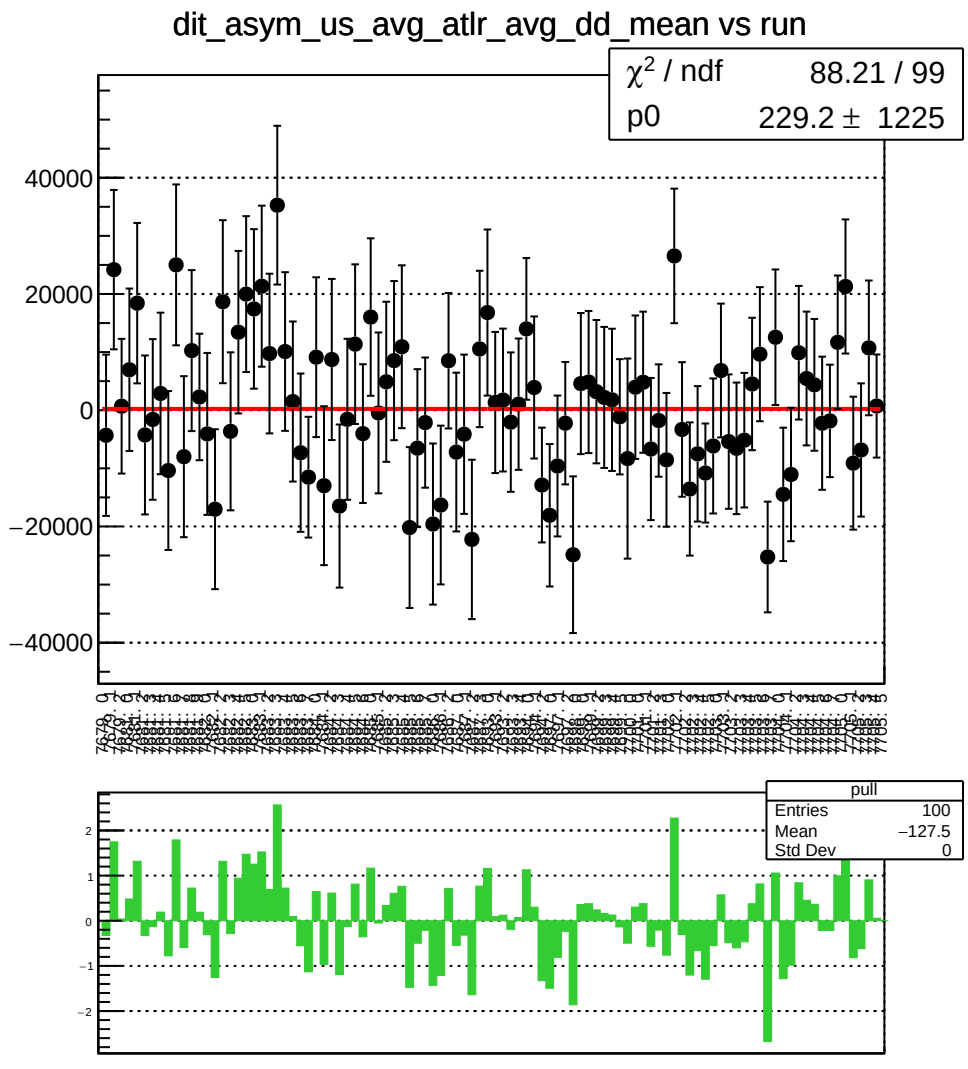

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 88.11 / 99
p0 97.5 ± 1220
40000
20000
0
−20000
−40000
pull
Entries 100
Mean −137.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.02728
Std Dev 0.9383
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

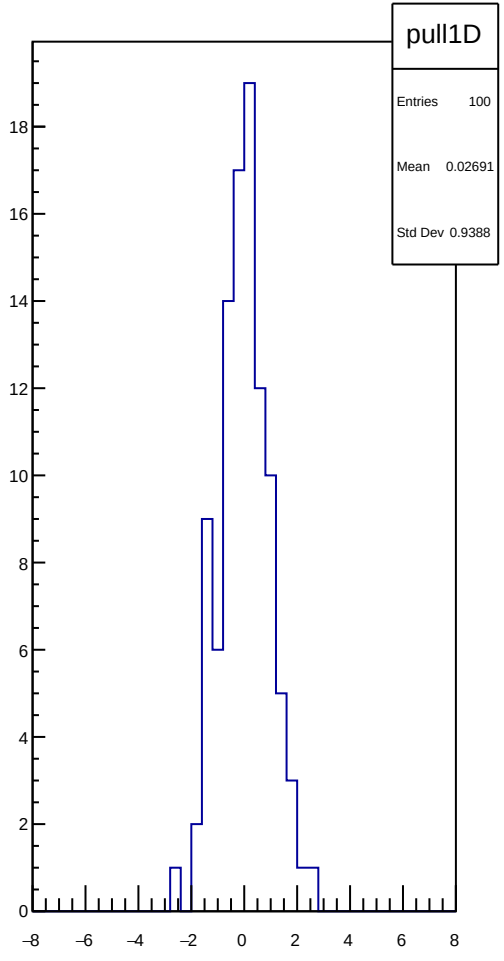

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1.348e+04 / 99
p0 1193 ± 0.8628
1350
1300
1250
1200
1150
1100
1050

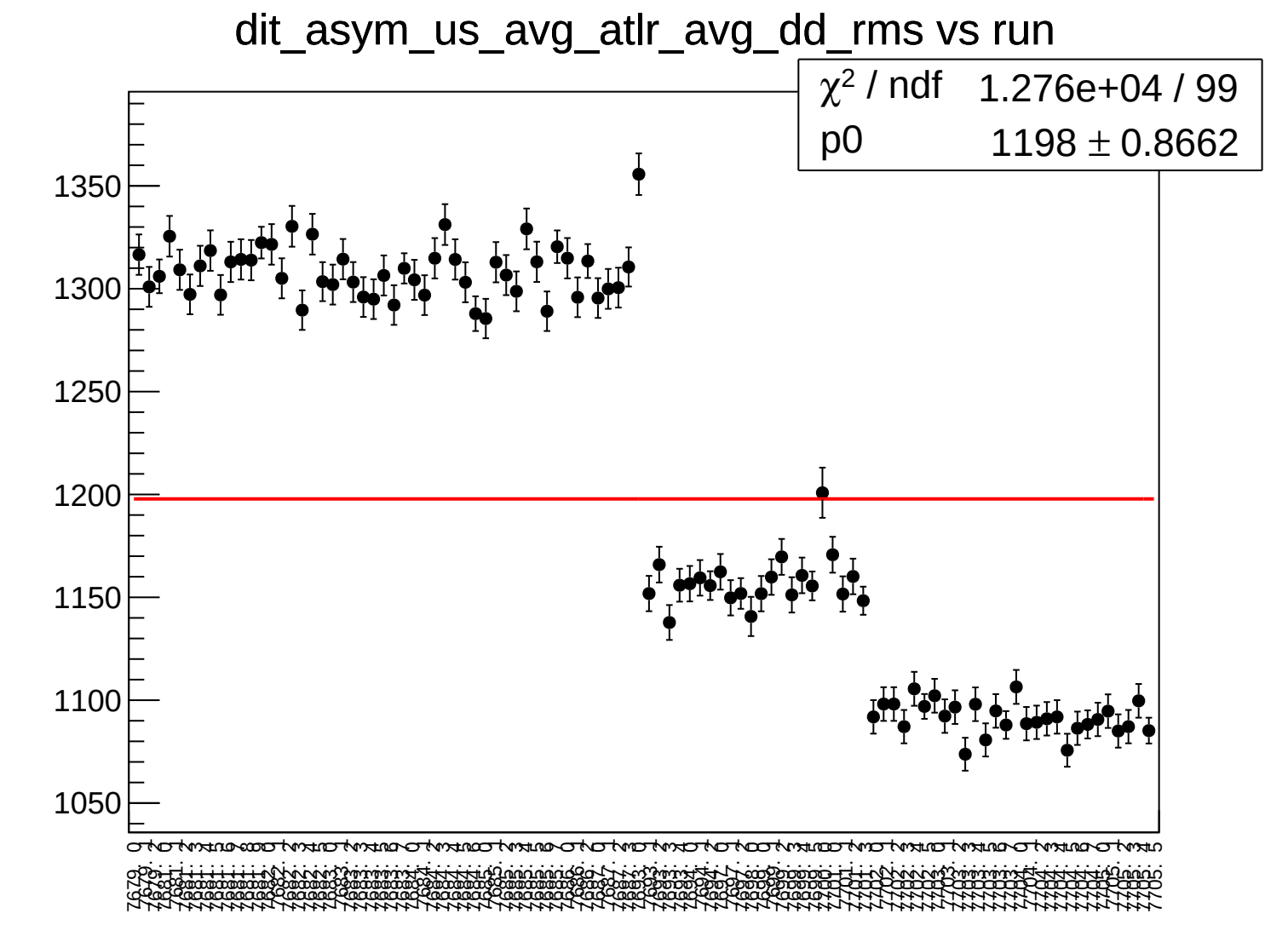

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 103.5 / 99
p0 −6582 ± 3977
150
100
50
0
−50
−100
−150
pull
Entries 100
Mean −1716
Std Dev 0
3
2
1
0
−1
−2

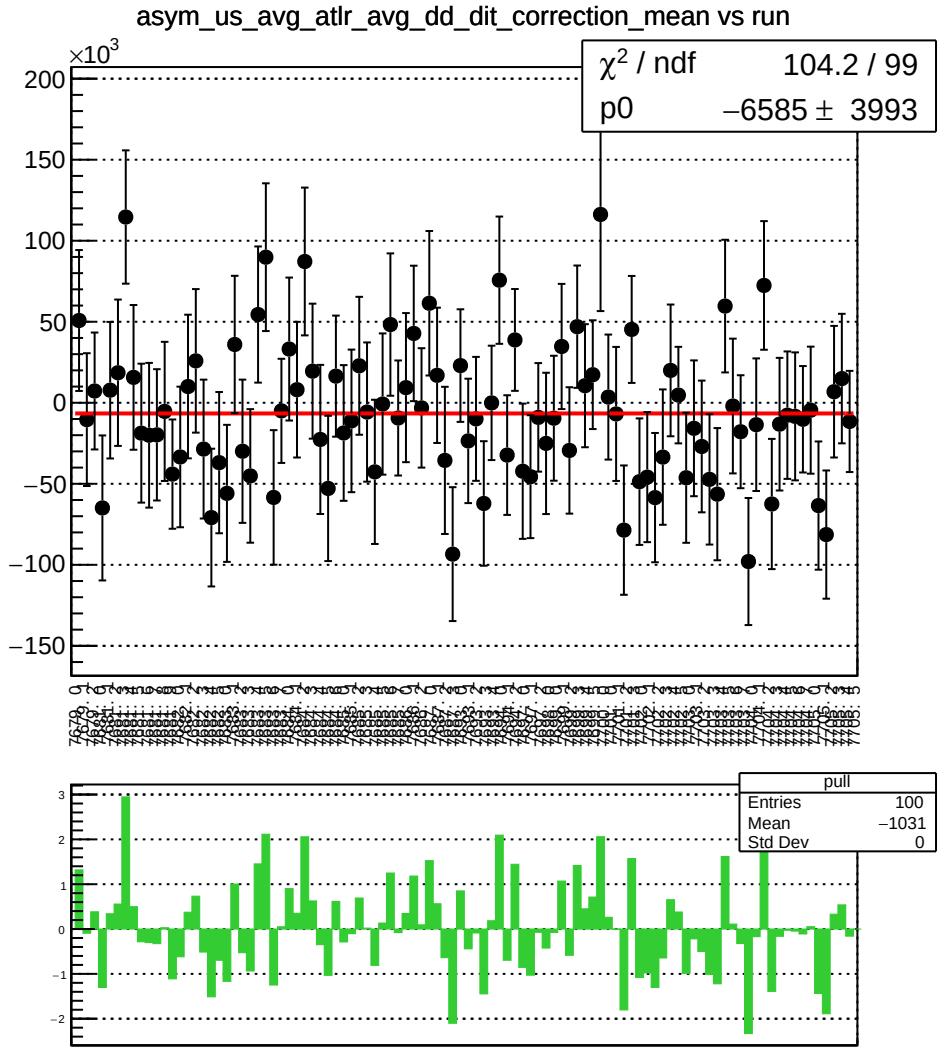

pull1D
Entries 100
Mean 0.002507
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

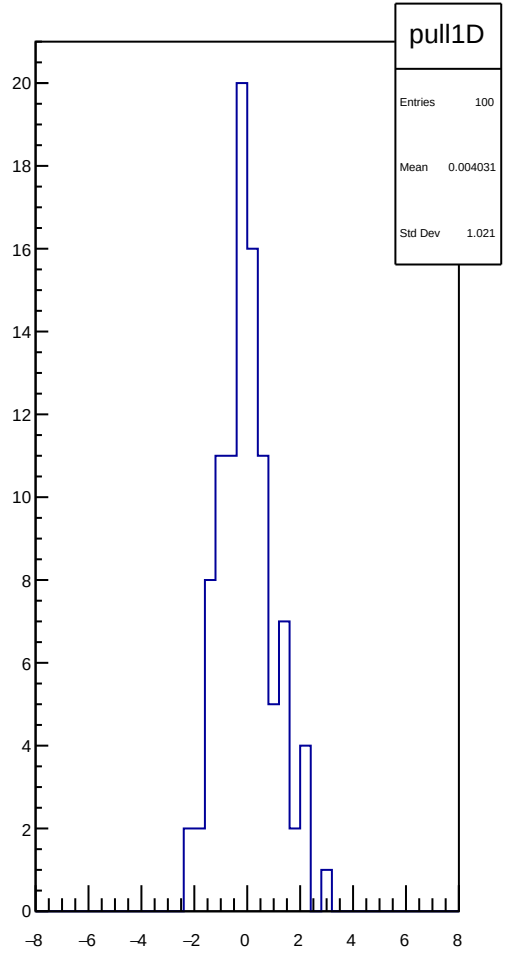

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 8237 / 99
p0 3894 ± 2.812
4400
4200
4000
3800
3600
3400
3200

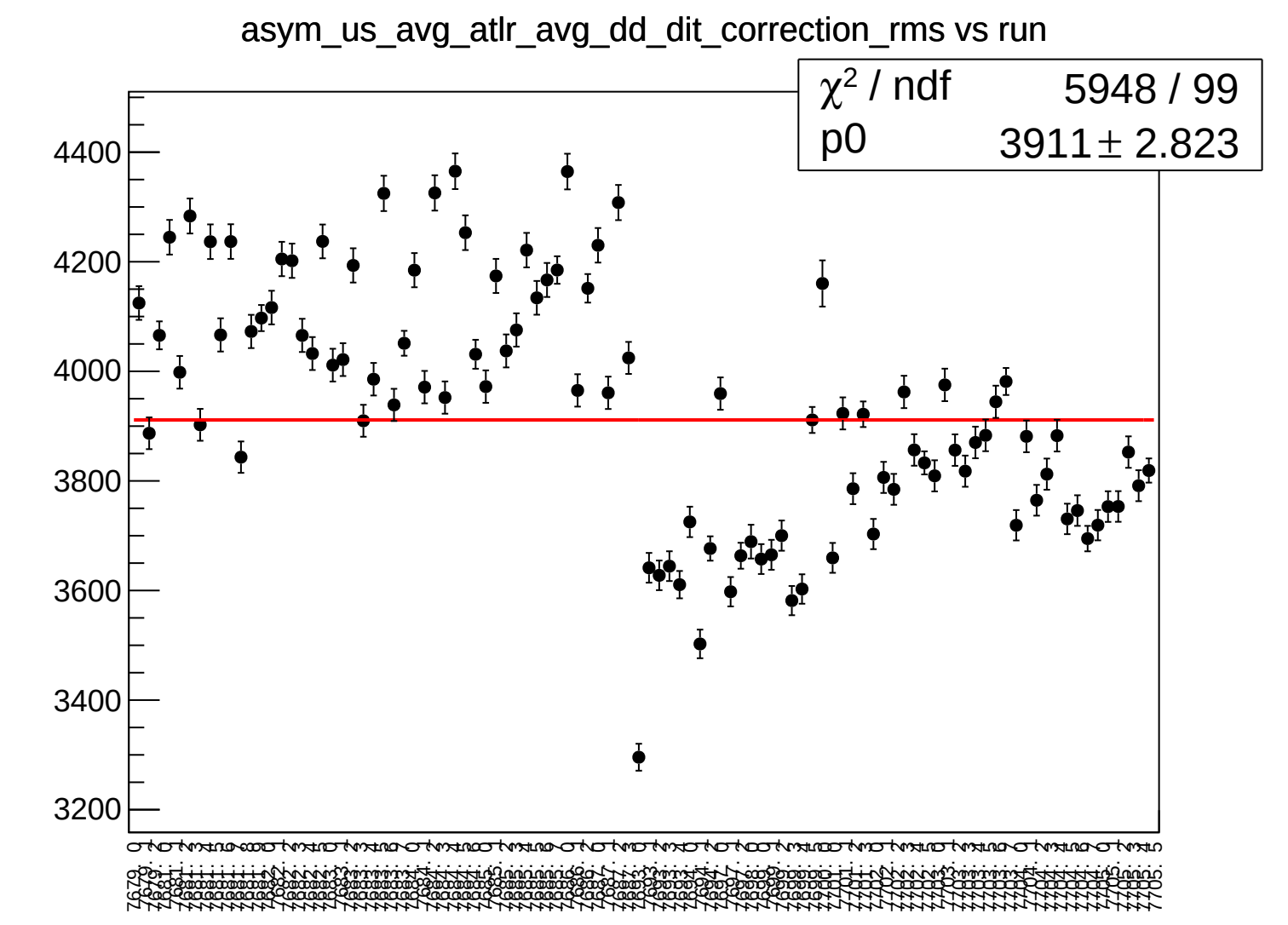

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 88.21 / 99
p0 229.2 ± 1225
40000
20000
0
−20000
−40000
pull
Entries 100
Mean −127.5
Std Dev 0
2
1
0
−1
−2

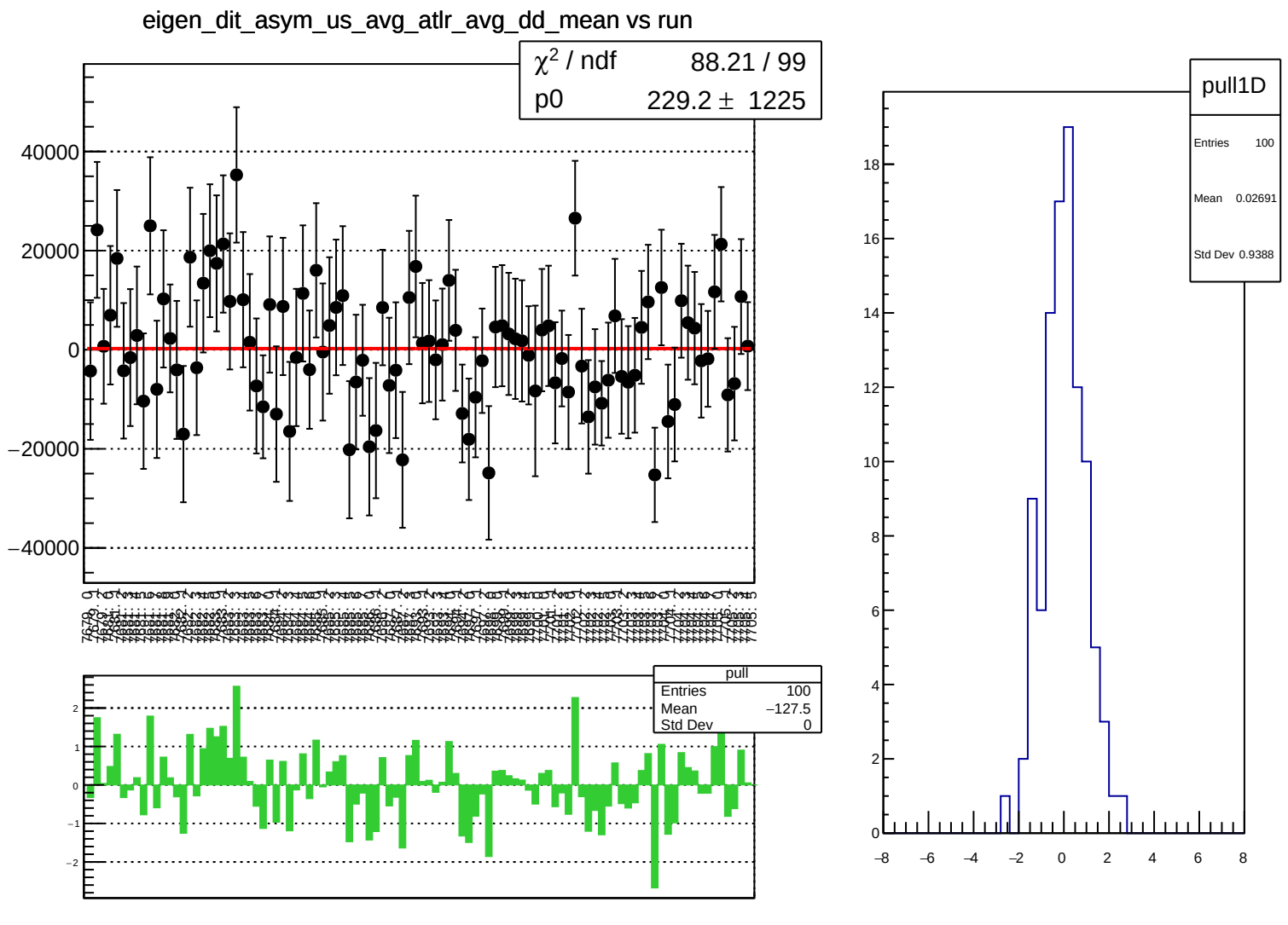

pull1D
Entries 100
Mean 0.02691
Std Dev 0.9388
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

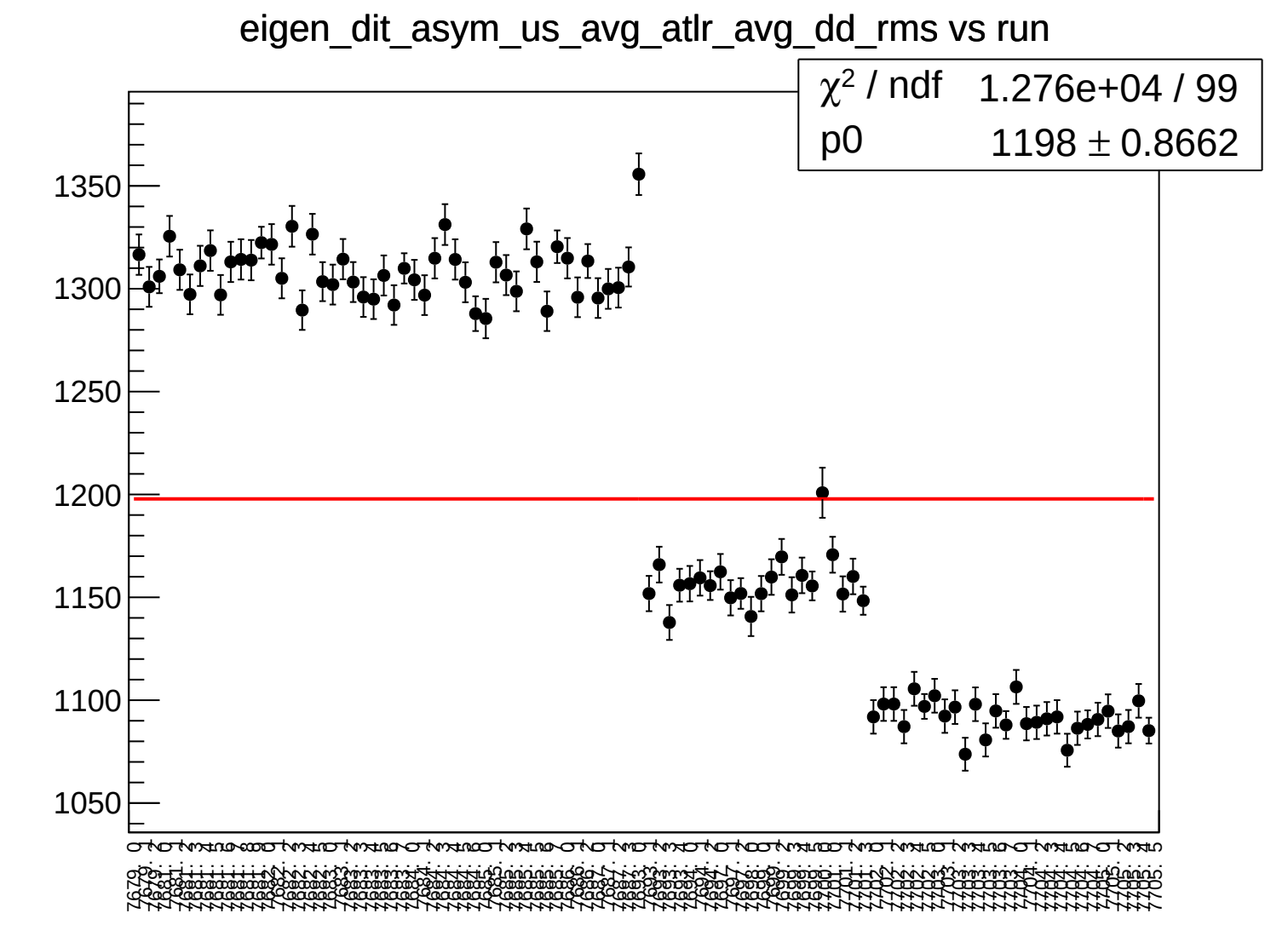

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1.276e+04 / 99
p0 1198 ± 0.8662
1350
1300
1250
1200
1150
1100
1050

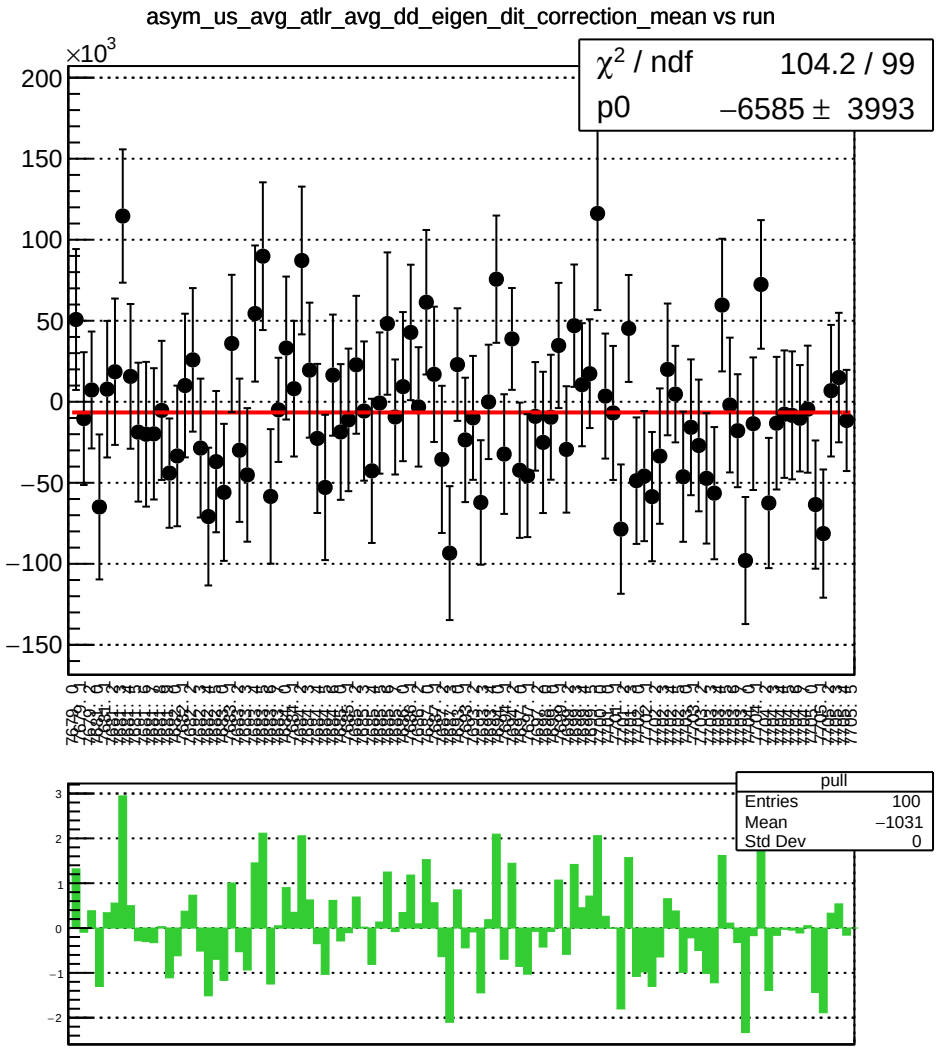

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 104.2 / 99
p0 −6585 ± 3993
pull
Entries 100
Mean −1031
Std Dev 0

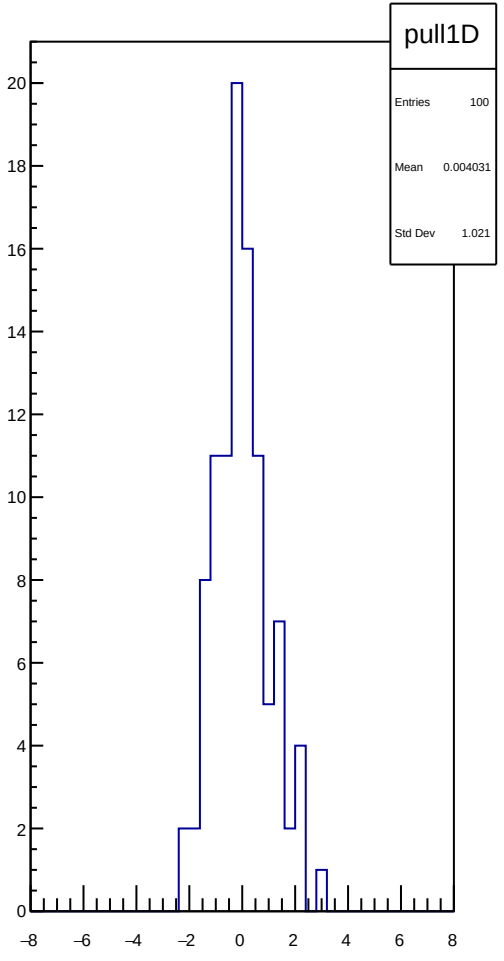

pull1D
Entries 100
Mean 0.004031
Std Dev 1.021

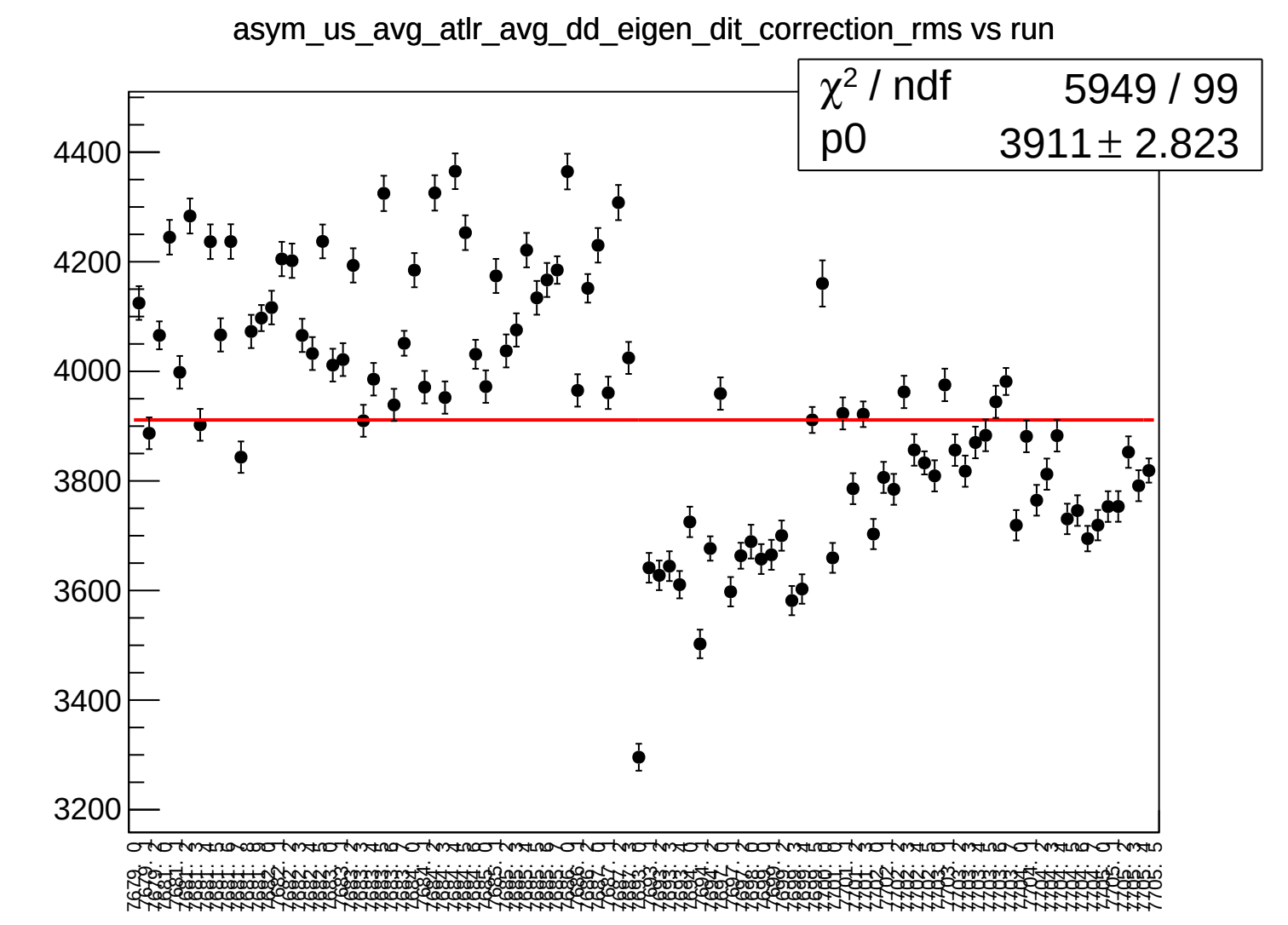

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 5948 / 99
p0 3911 ± 2.823
4400
4200
4000
3800
3600
3400
3200

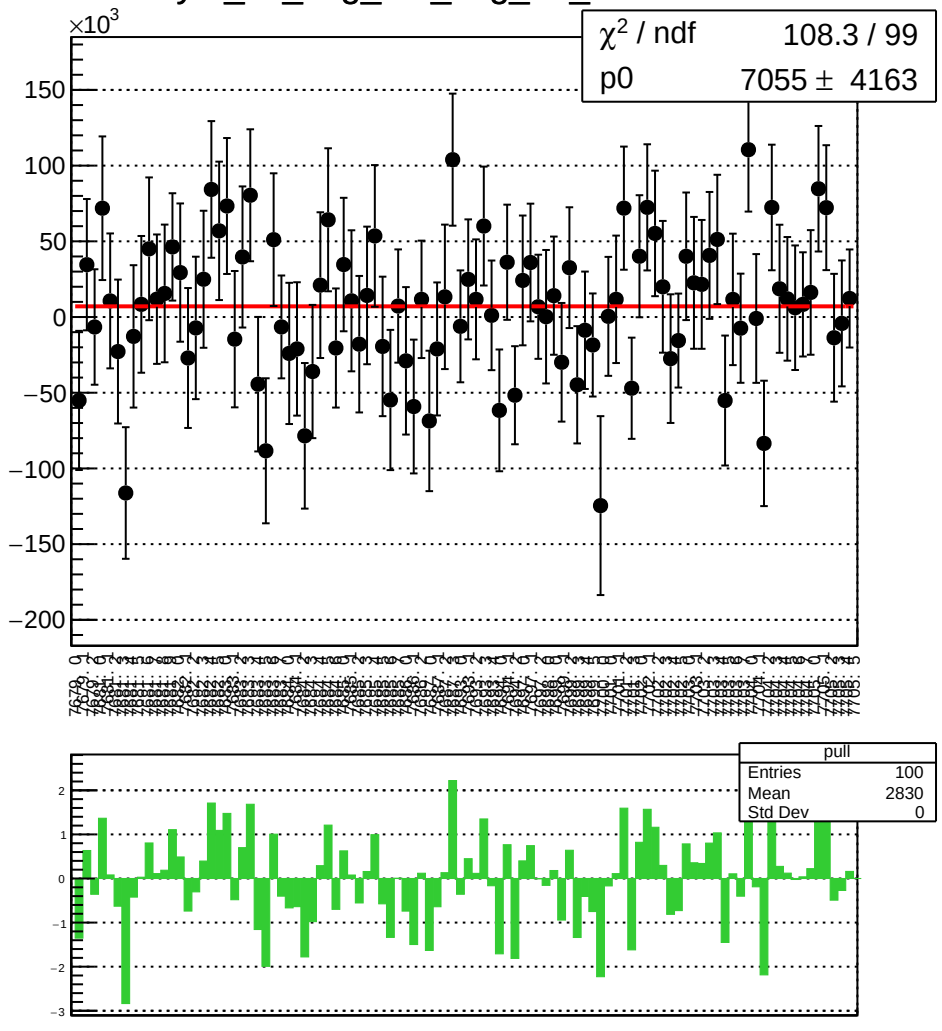

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 88.21 / 99
p0 229.2 ± 1225
40000
20000
0
−20000
−40000
pull
Entries 100
Mean −127.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.02691
Std Dev 0.9388
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

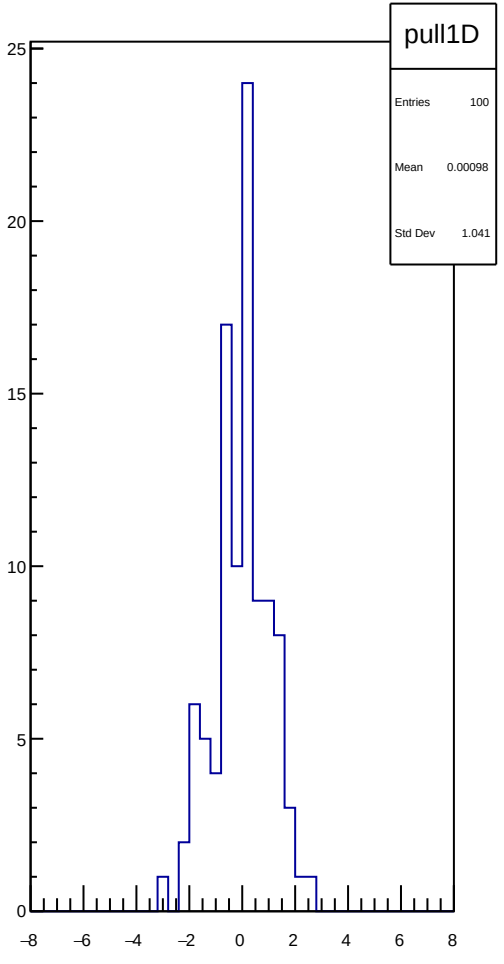

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1.276e+04 / 99
p0 1198 ± 0.8662
1350
1300
1250
1200
1150
1100
1050

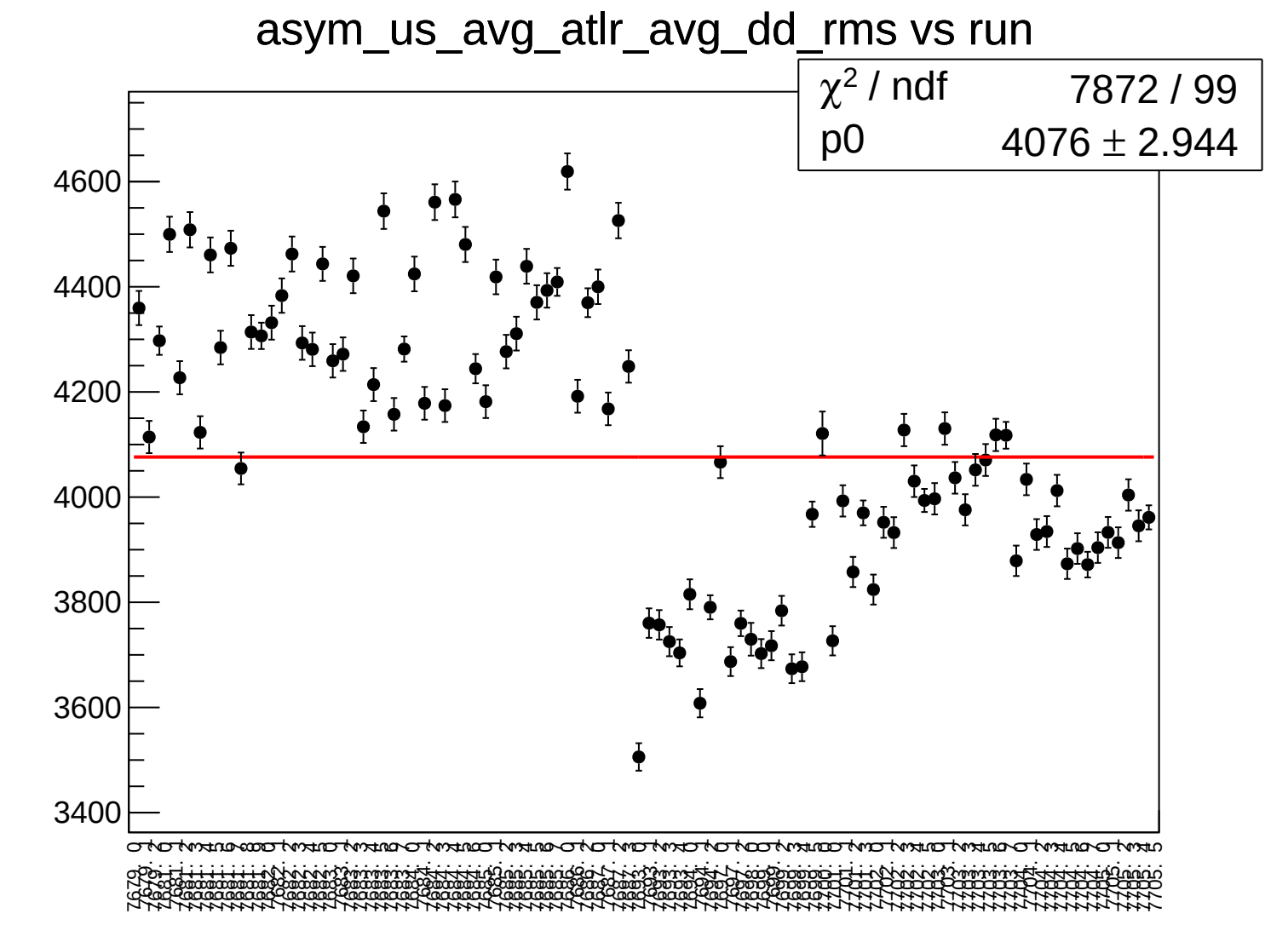

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 104.2 / 99
p0 −6585 ± 3993
pull
Entries 100
Mean −1031
Std Dev 0

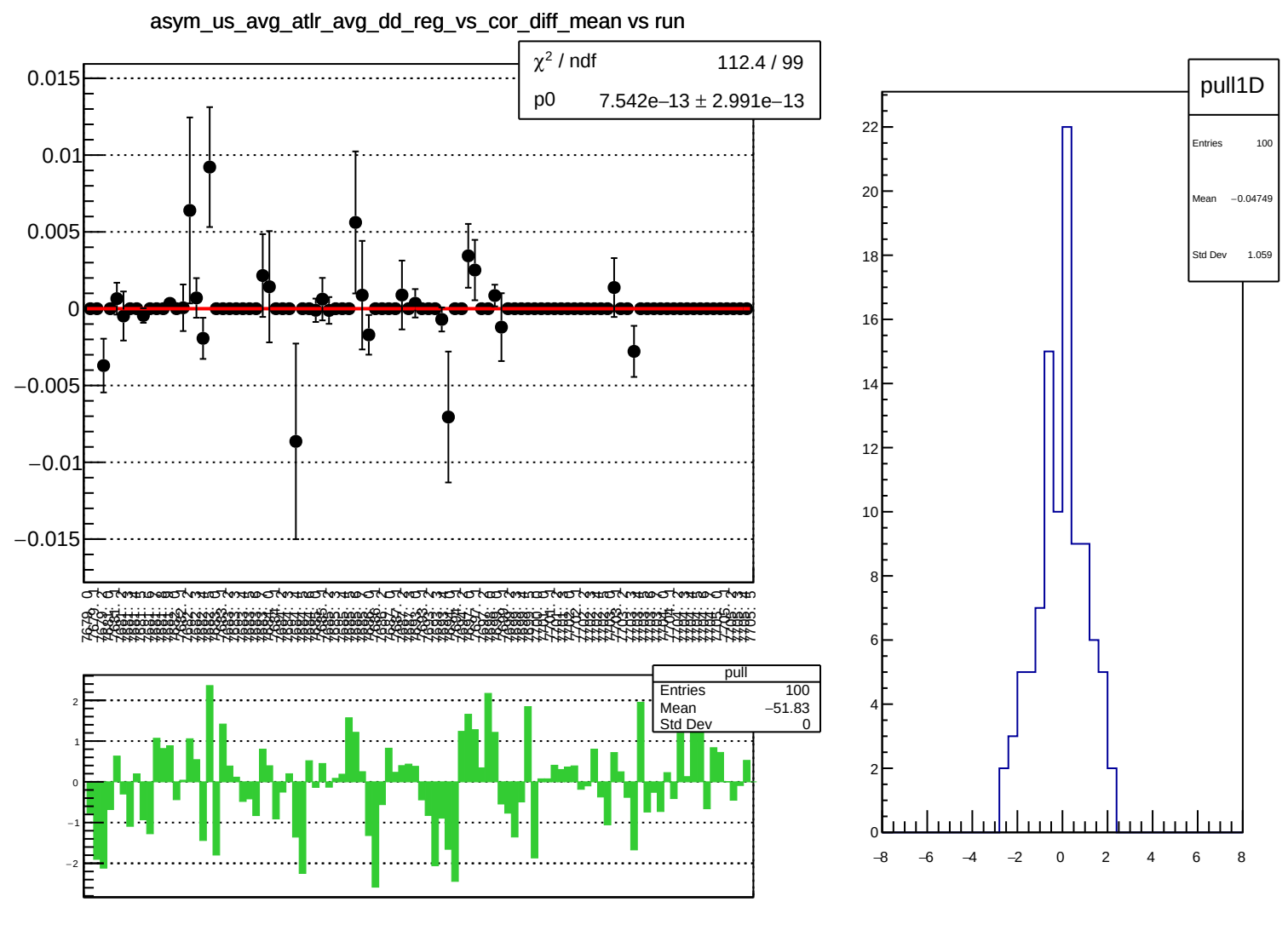

pull1D
Entries 100
Mean 0.004031
Std Dev 1.021

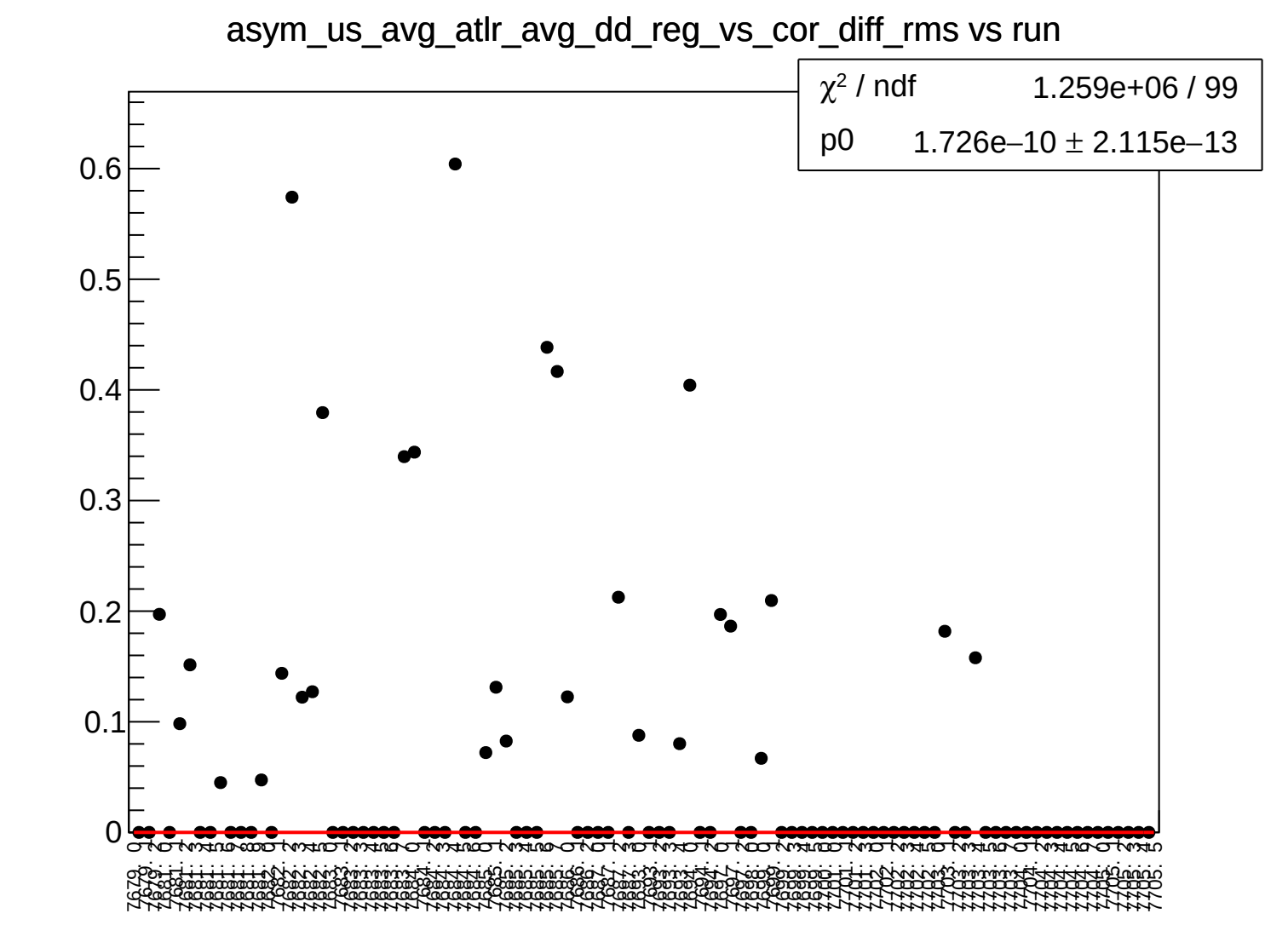

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 5949 / 99
p0 3911 ± 2.823
4400
4200
4000
3800
3600
3400
3200

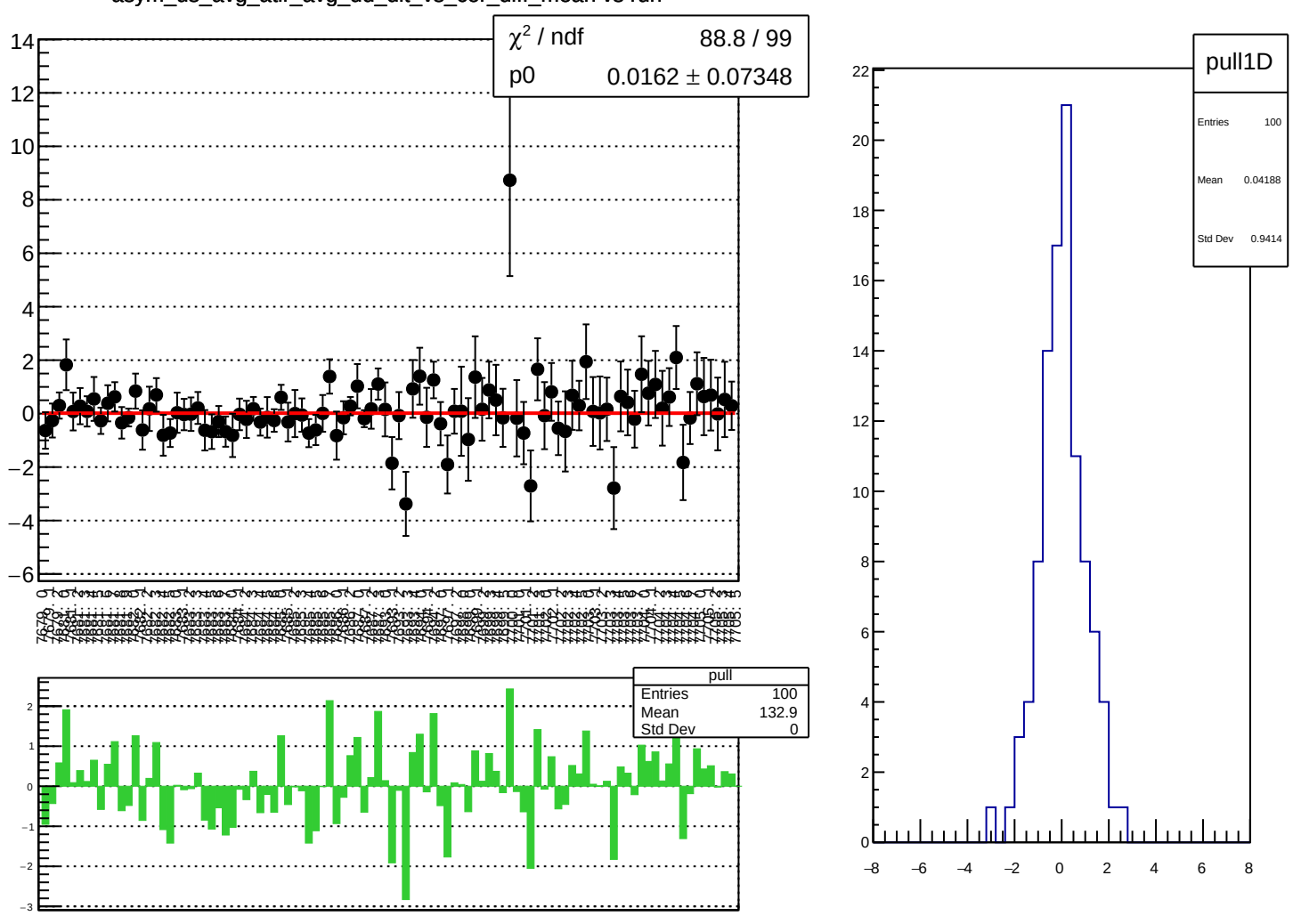

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ^2 / ndf 108.3 / 99
p0 7055 ± 4163
150
100
50
0
−50
−100
−150
−200
pull
Entries 100
Mean 2830
Std Dev 0
2
1
0
−1
−2
−3

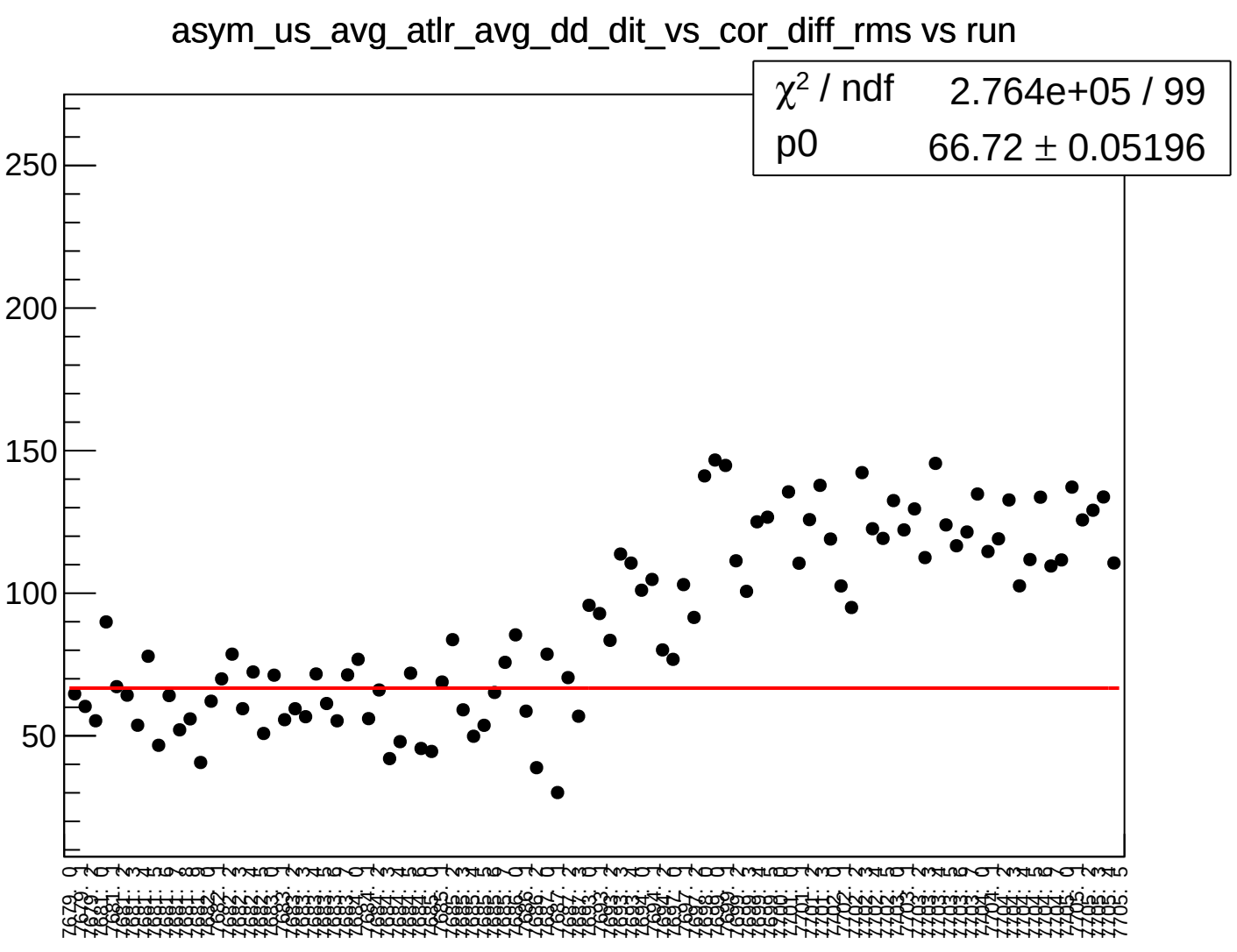

pull1D
Entries 100
Mean 0.00098
Std Dev 1.041
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

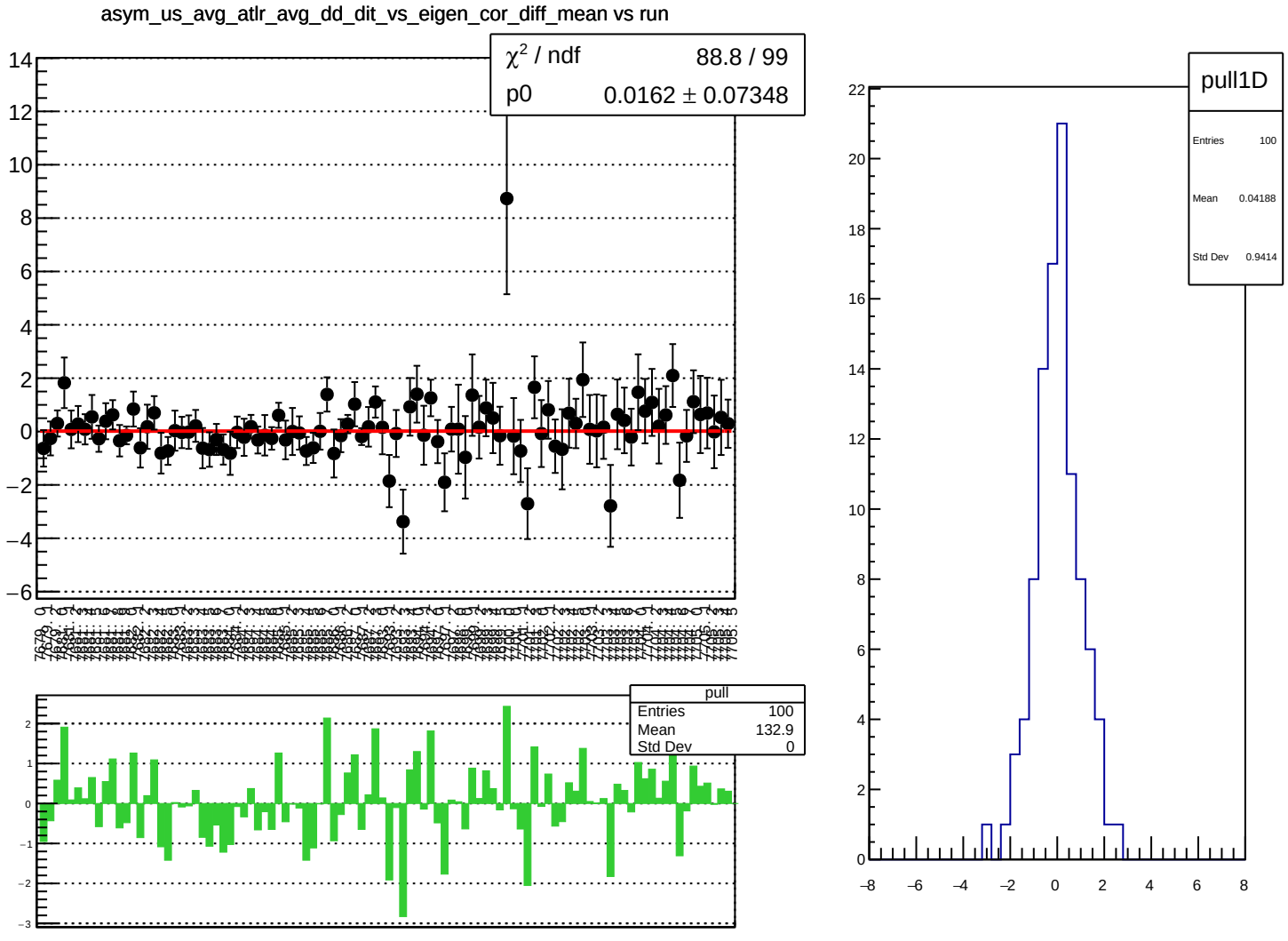

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 7872 / 99
p0 4076 ± 2.944
4600
4400
4200
4000
3800
3600
3400

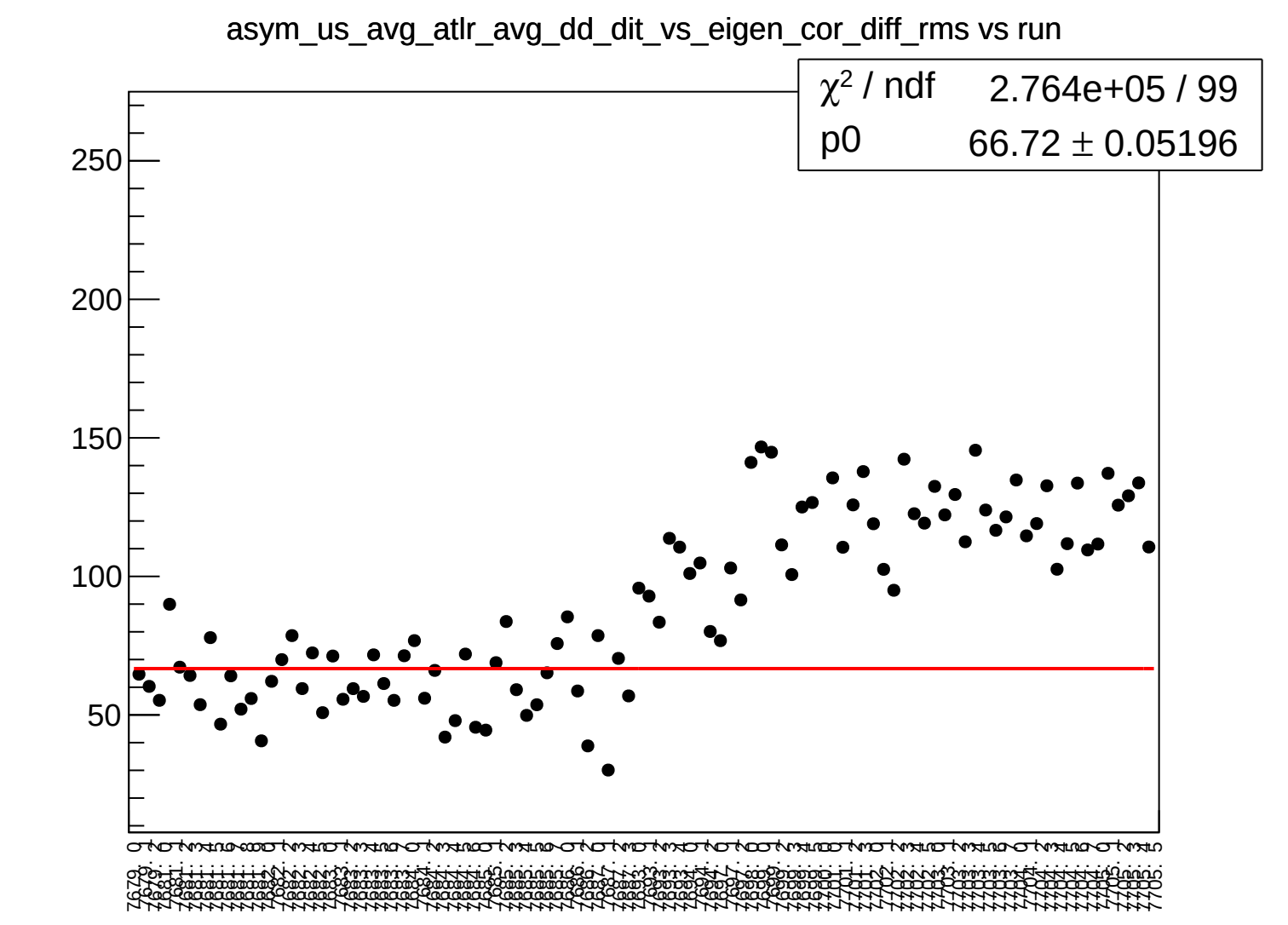

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 112.4 / 99
p0 7.542e−13 ± 2.991e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 100
Mean −51.83
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.04749
Std Dev 1.059
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

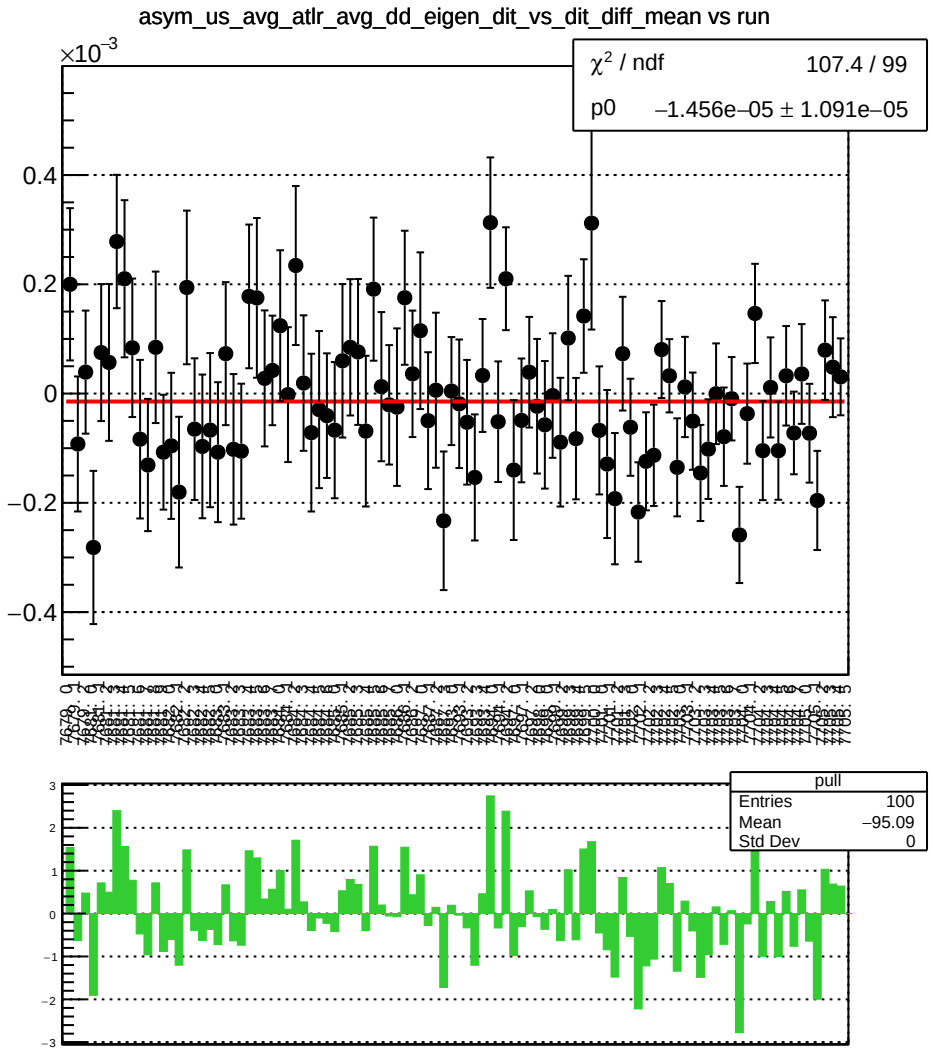

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.259e+06 / 99
p0 1.726e−10 ± 2.115e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

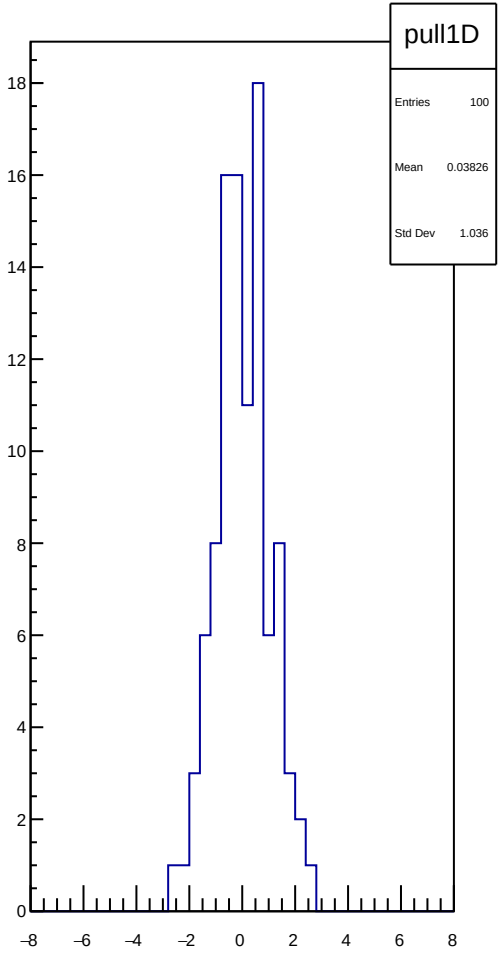

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.8 / 99
p0 0.0162 ± 0.07348
pull
Entries 100
Mean 132.9
Std Dev 0
pull1D
Entries 100
Mean 0.04188
Std Dev 0.9414

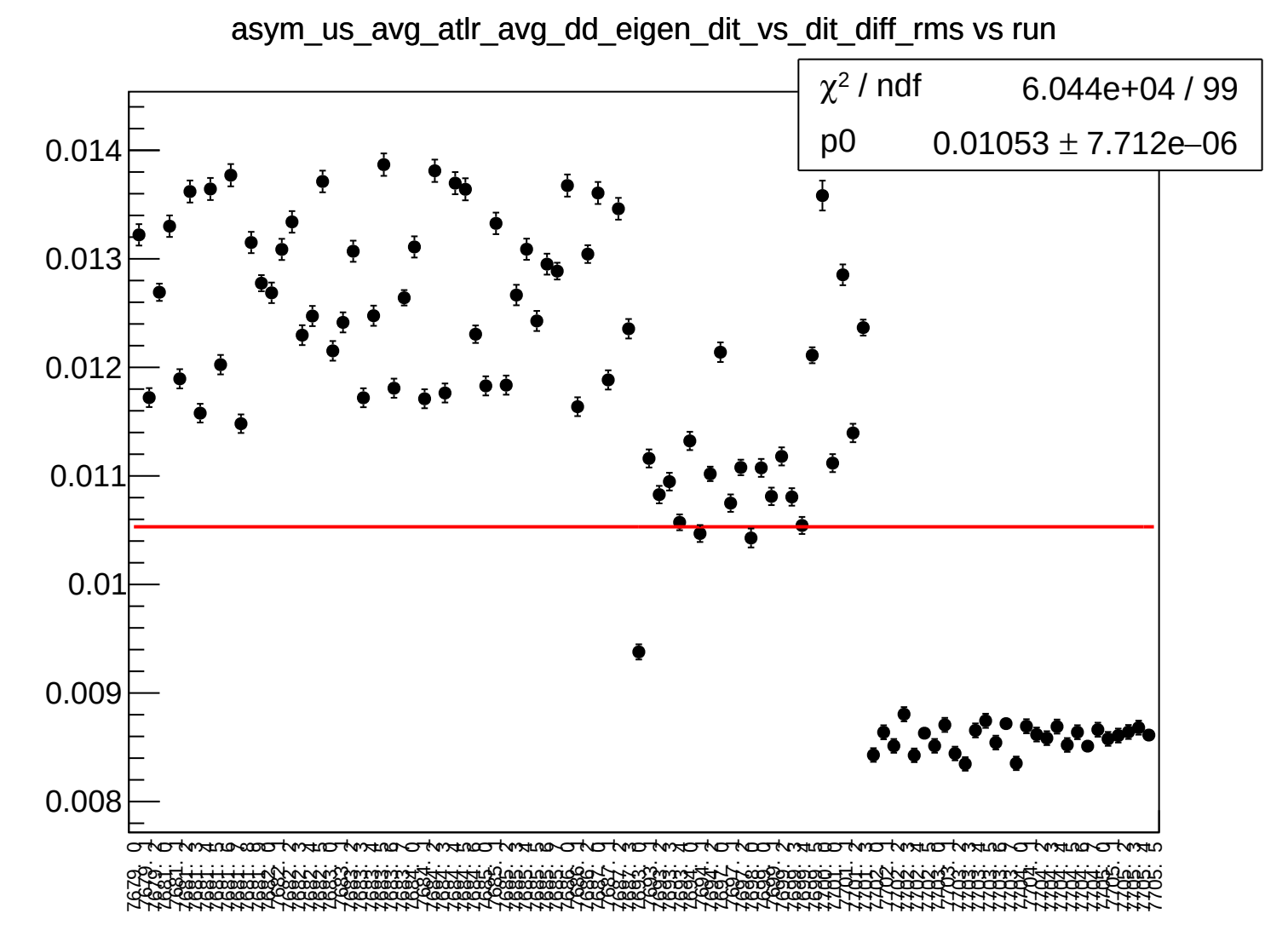

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.764e+05 / 99
p0 66.72 ± 0.05196
250
200
150
100
50

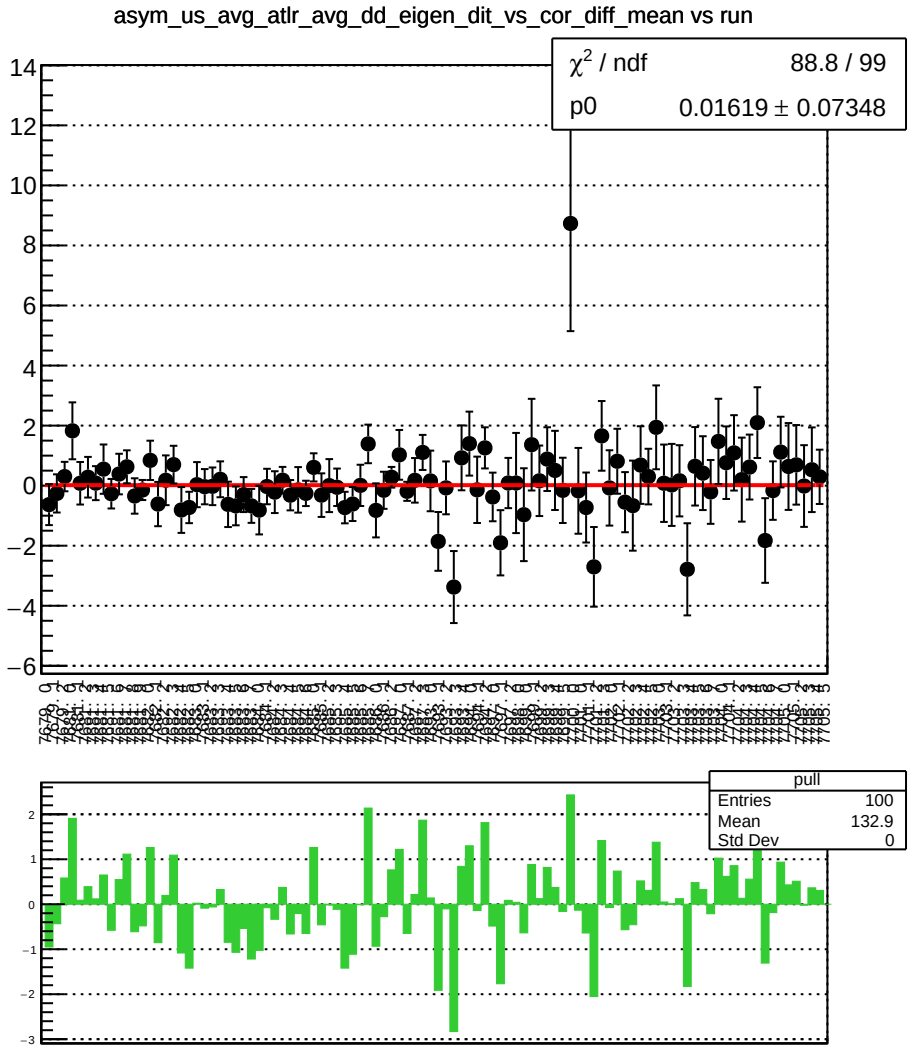

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.8 / 99
p0 0.0162 ± 0.07348
pull
Entries 100
Mean 132.9
Std Dev 0
pull1D
Entries 100
Mean 0.04188
Std Dev 0.9414

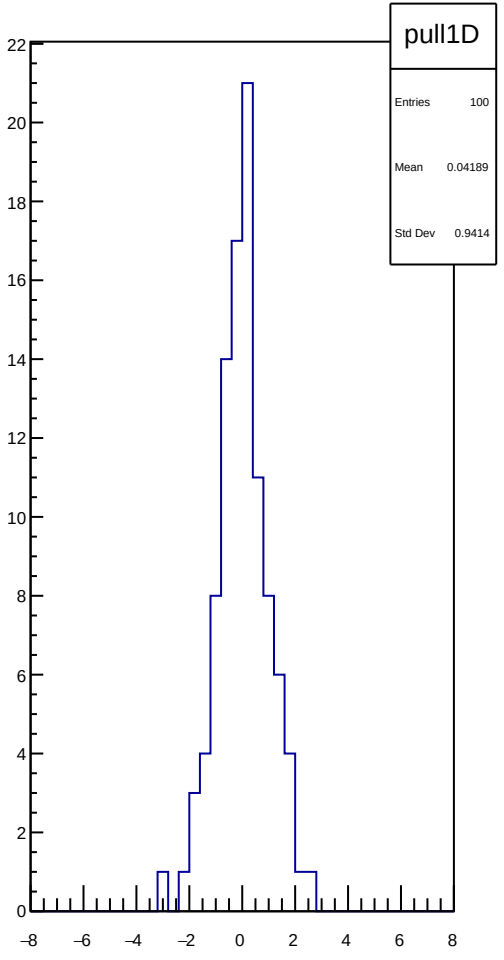

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.764e+05 / 99
p0 66.72 ± 0.05196
250
200
150
100
50

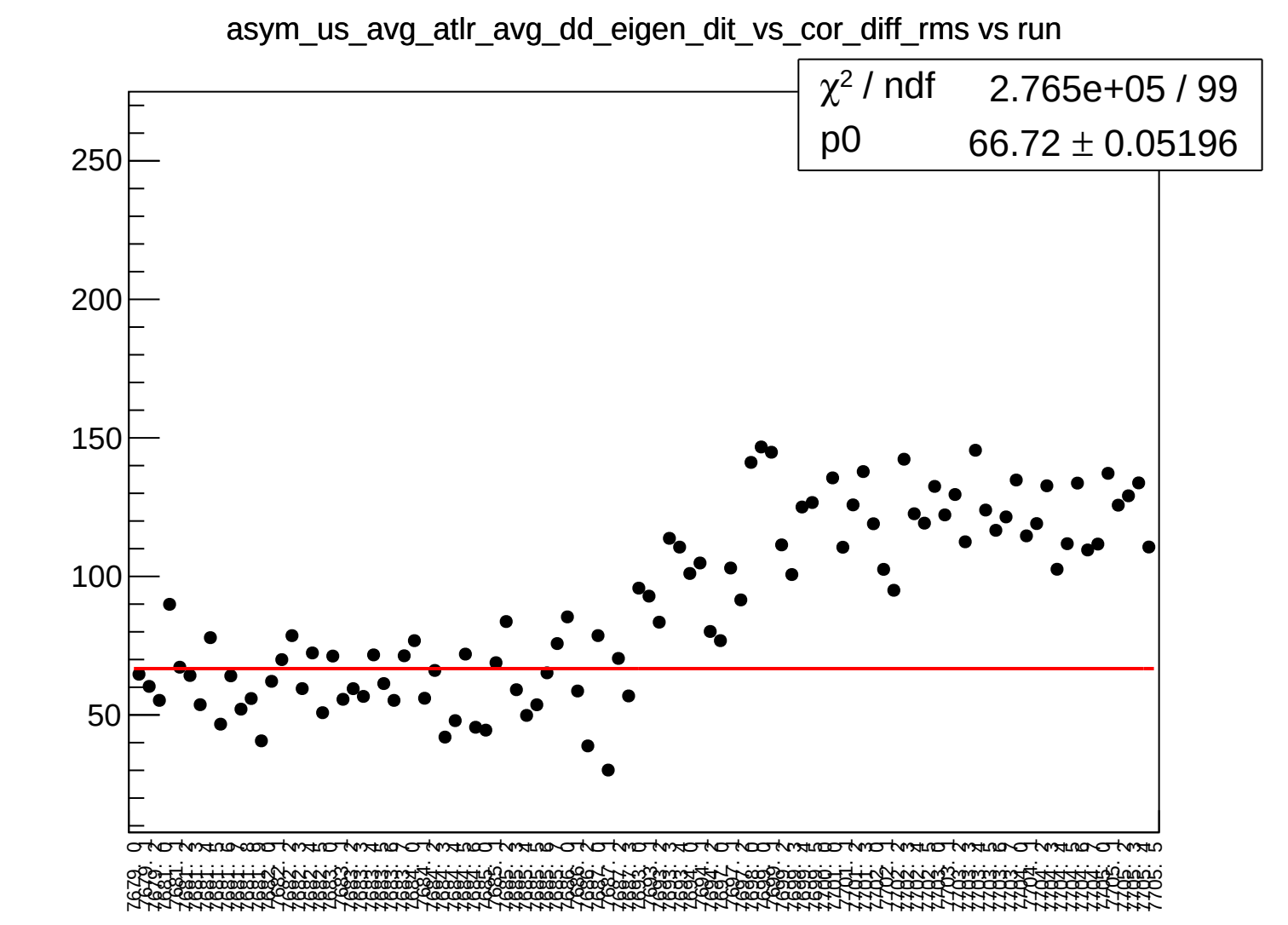

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 107.4 / 99
p0 −1.456e−05 ± 1.091e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 100
Mean −95.09
Std Dev 0
3
2
1
0
−1
−2
−3

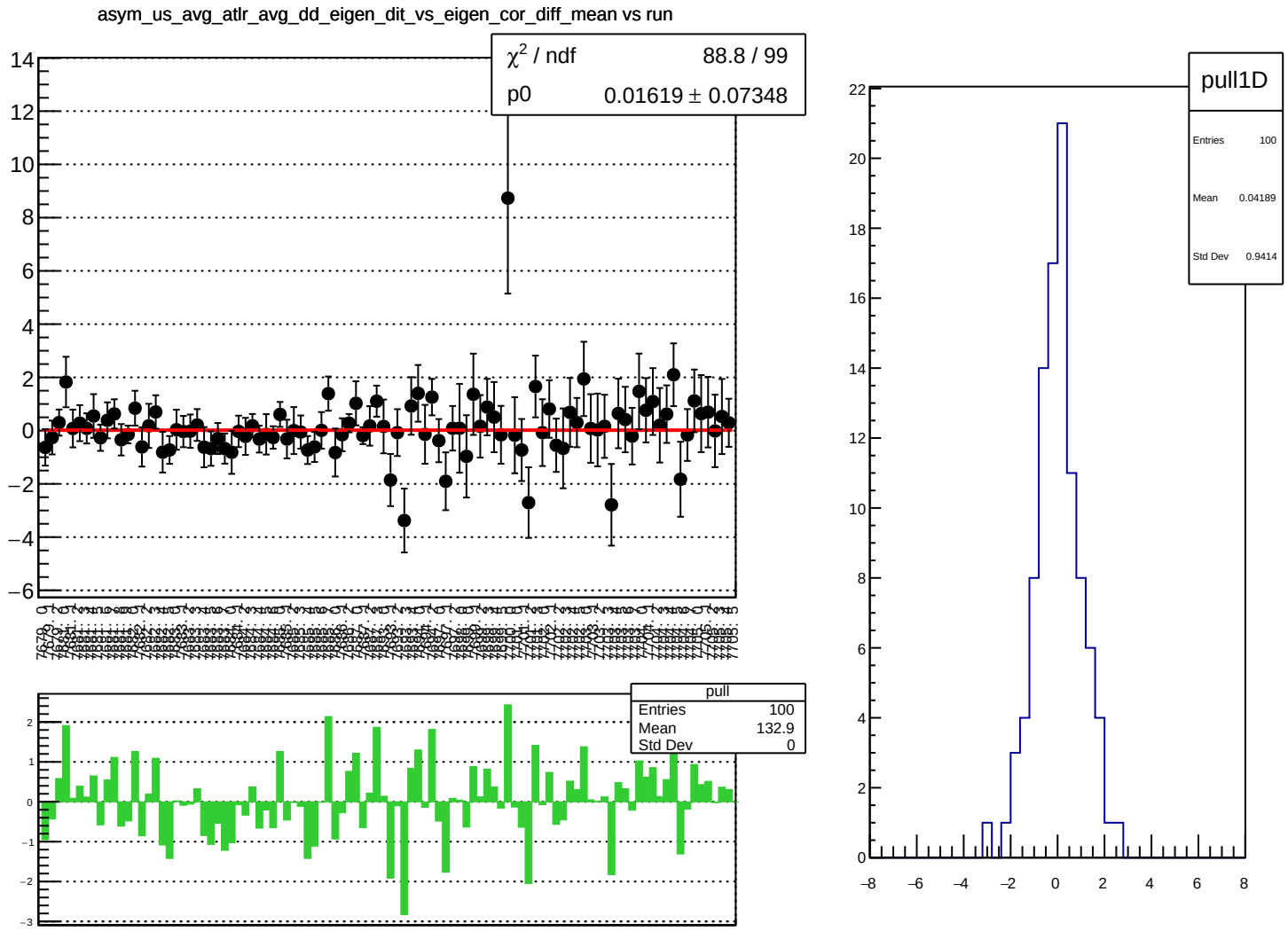

pull1D
Entries 100
Mean 0.03826
Std Dev 1.036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

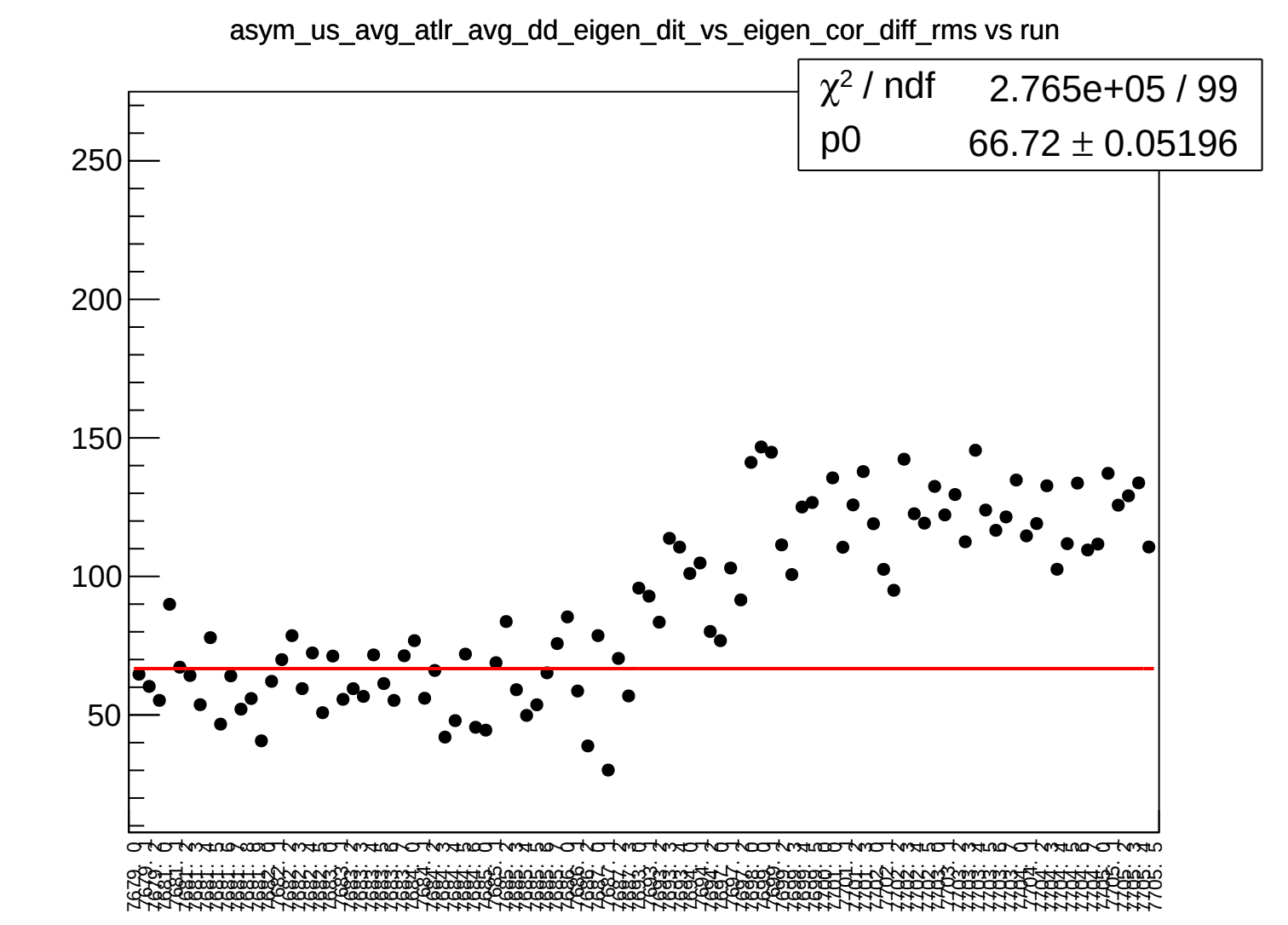

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.044e+04 / 99
p0 0.01053 ± 7.712e–06
0.014
0.013
0.012
0.011
0.01
0.009
0.008

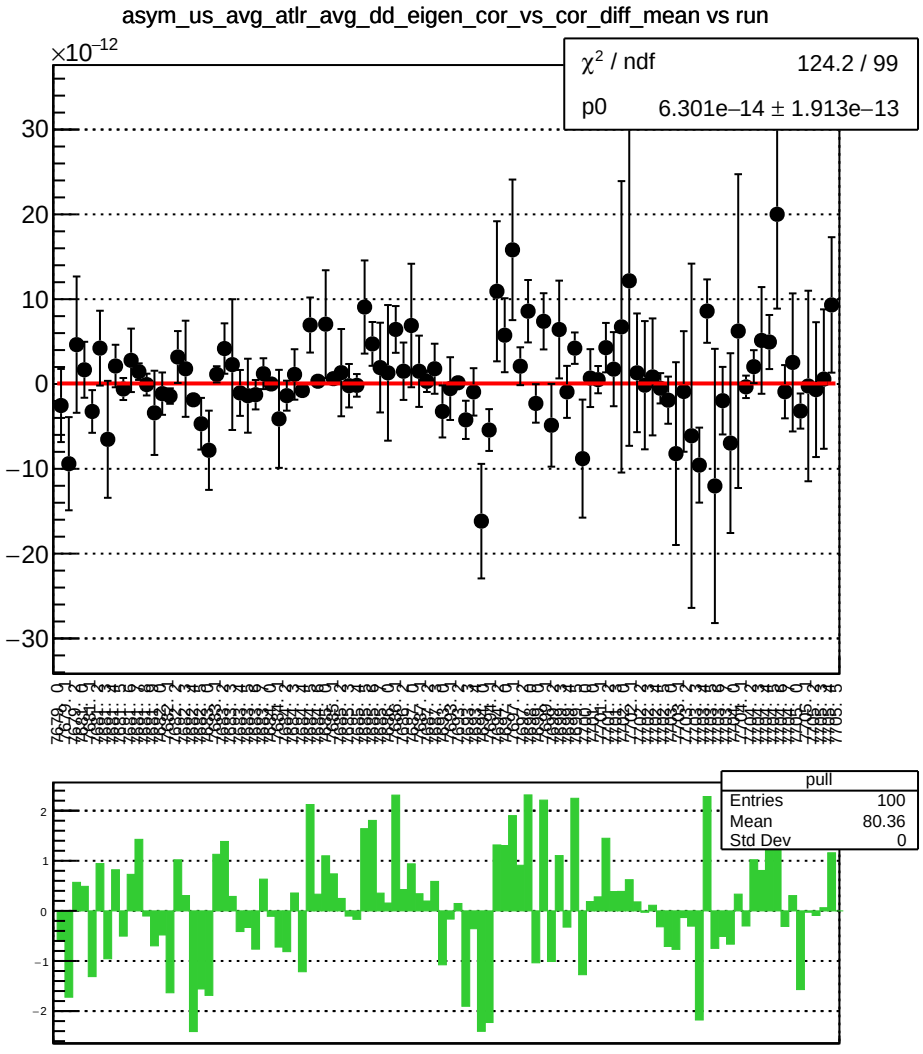

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.8 / 99
p0 0.01619 ± 0.07348
pull
Entries 100
Mean 132.9
Std Dev 0

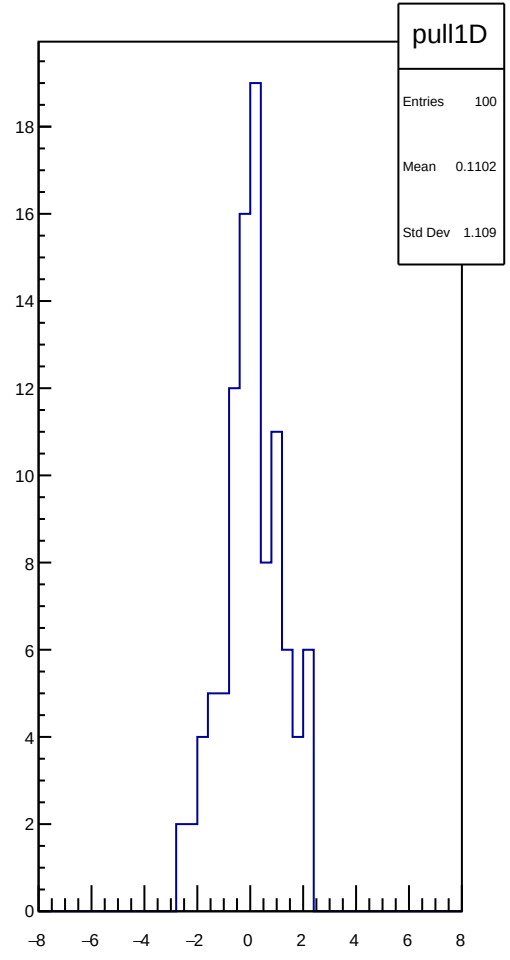

pull1D
Entries 100
Mean 0.04189
Std Dev 0.9414

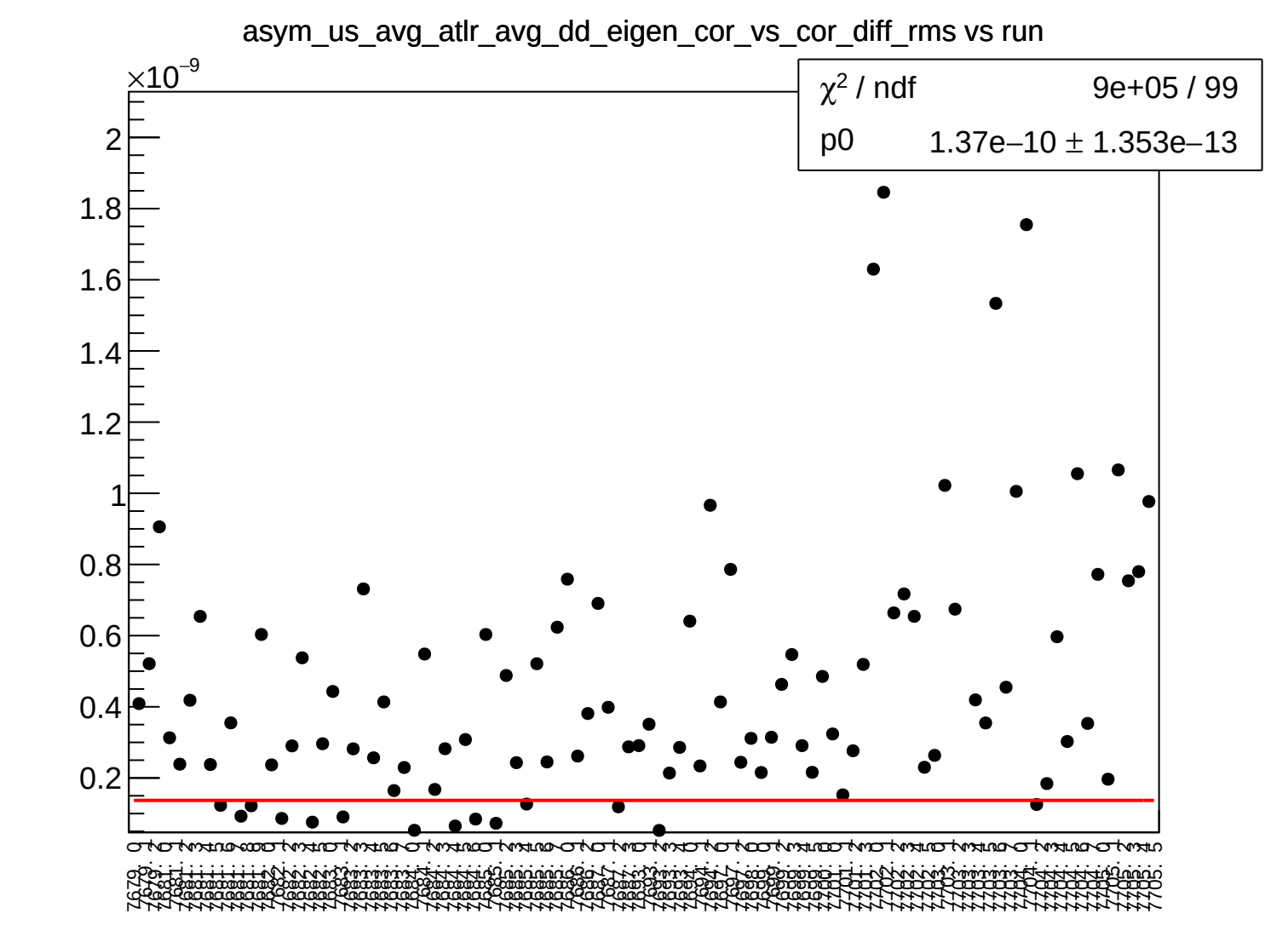

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.765e+05 / 99
p0 66.72 ± 0.05196
250
200
150
100
50

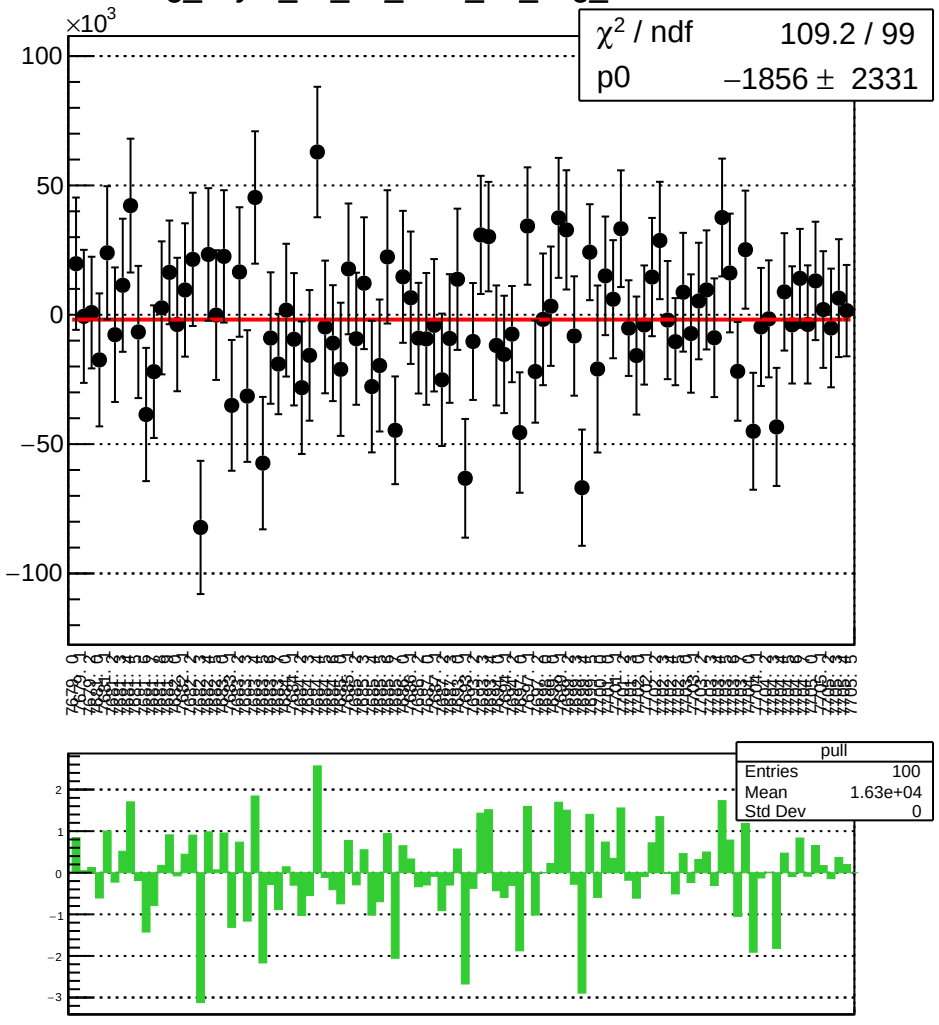

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.8 / 99
p0 0.01619 ± 0.07348
pull
Entries 100
Mean 132.9
Std Dev 0
pull1D
Entries 100
Mean 0.04189
Std Dev 0.9414

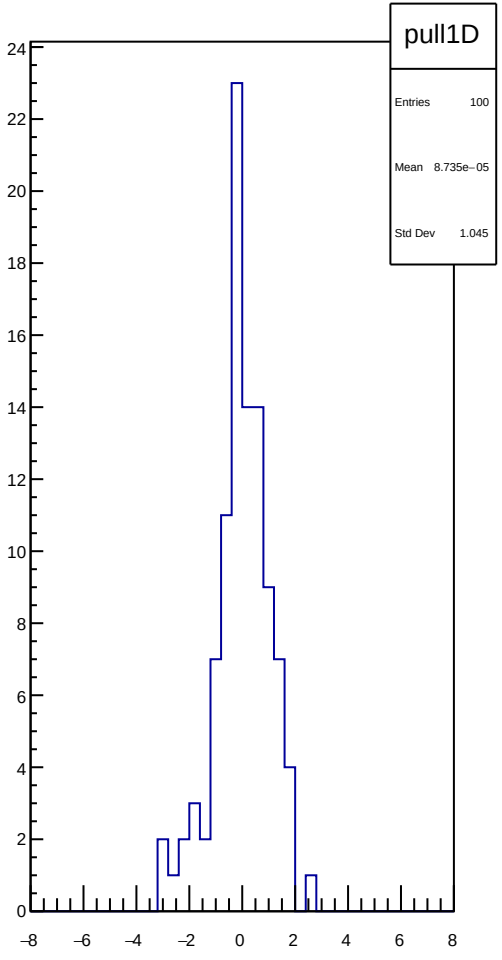

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.765e+05 / 99
p0 66.72 ± 0.05196
250
200
150
100
50

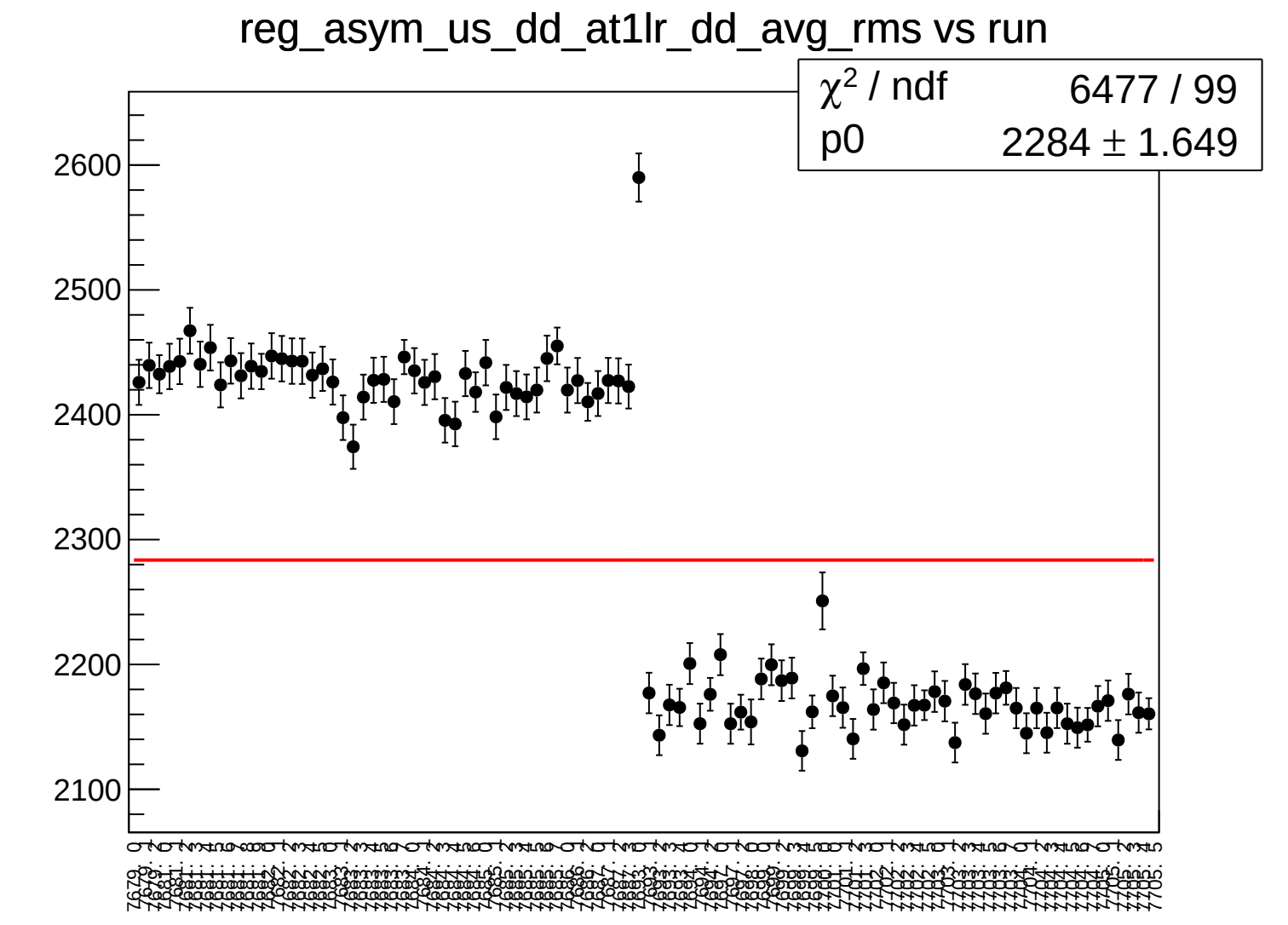

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 124.2 / 99
p0 6.301e−14 ± 1.913e−13
30
20
10
0
−10
−20
−30
pull
Entries 100
Mean 80.36
Std Dev 0
2
1
0
−1
−2

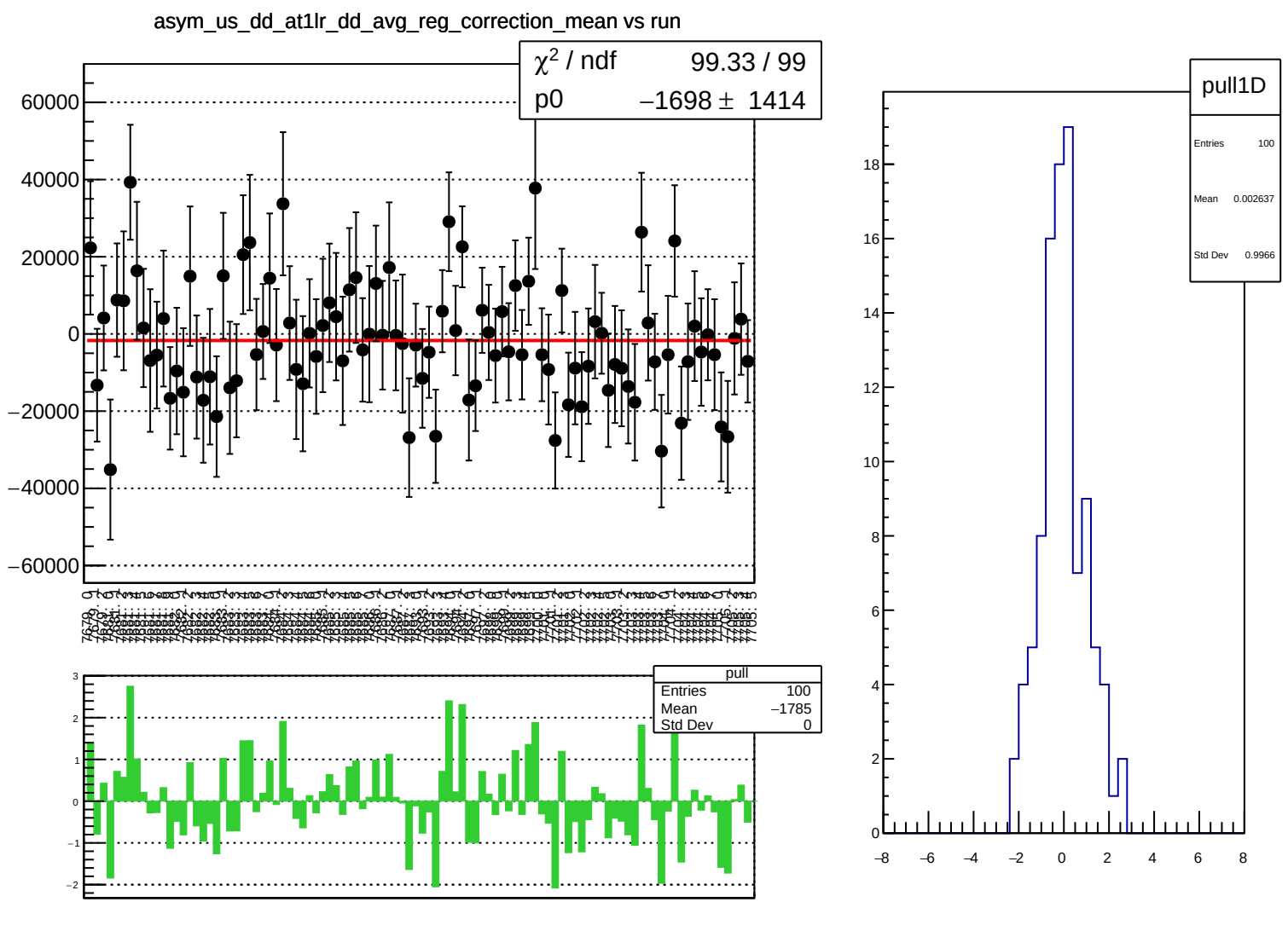

pull1D
Entries 100
Mean 0.1102
Std Dev 1.109
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

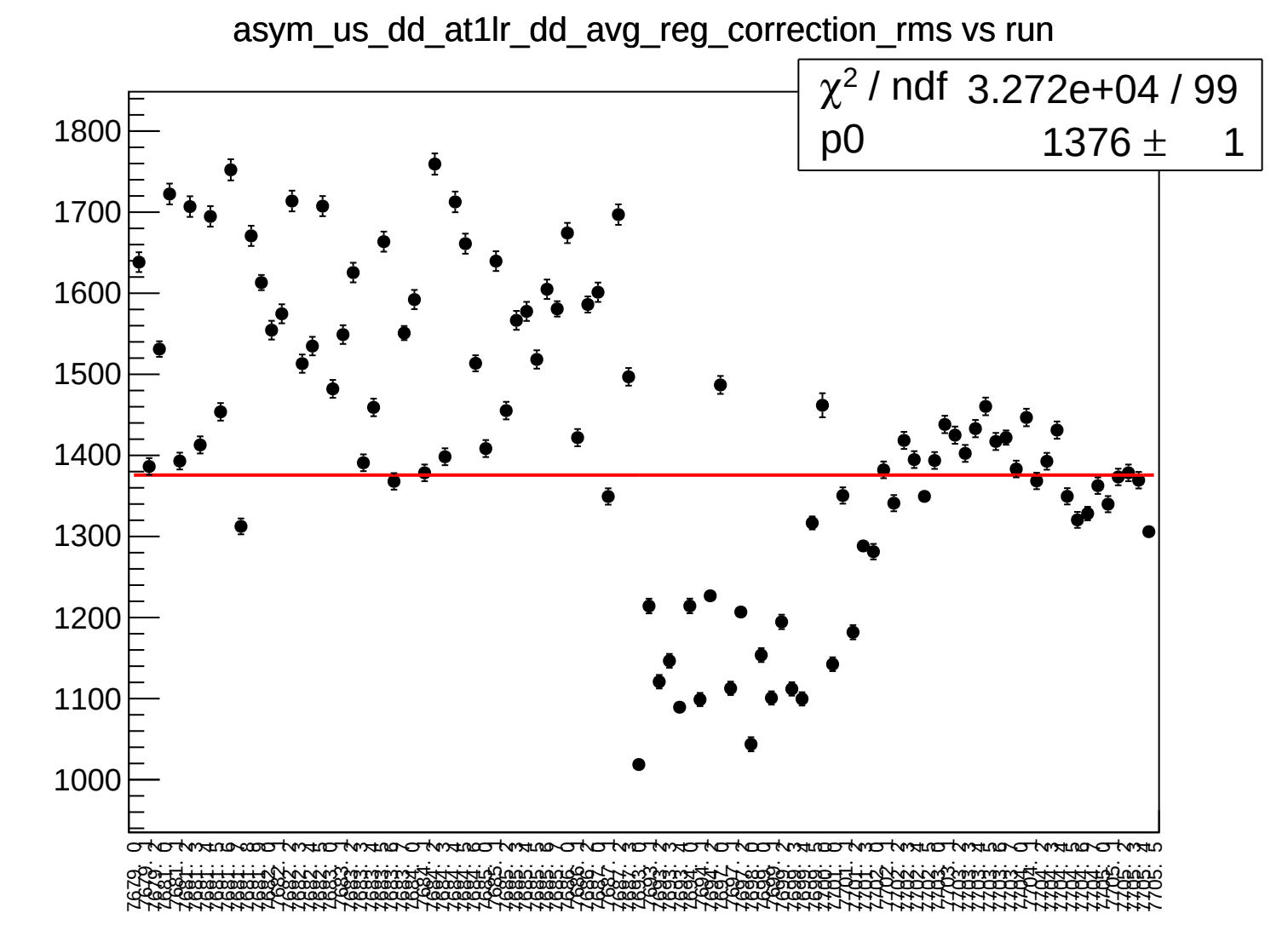

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9e+05 / 99
p0 1.37e−10 ± 1.353e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

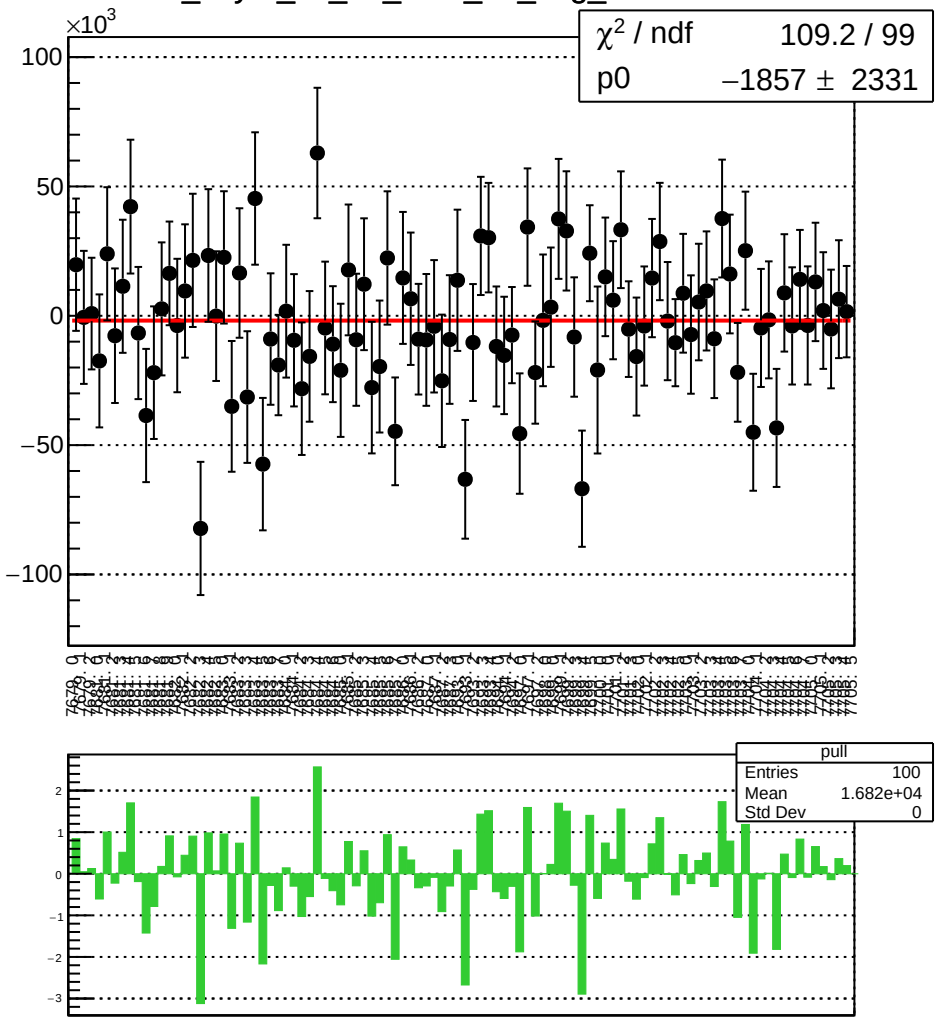

reg_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 109.2 / 99
p0 −1856 ± 2331
100
50
0
−50
−100
pull
Entries 100
Mean 1.63e+04
Std Dev 0
2
1
0
−1
−2
−3

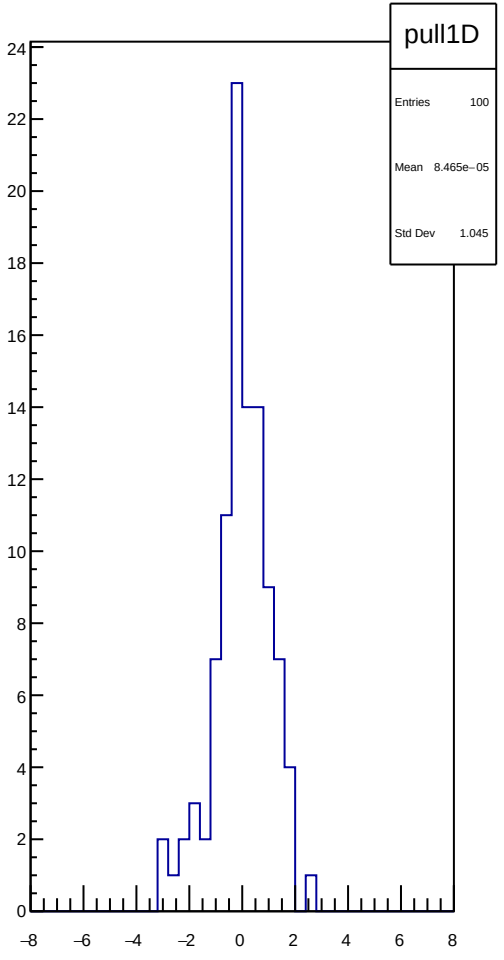

pull1D
Entries 100
Mean 8.735e−05
Std Dev 1.045
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

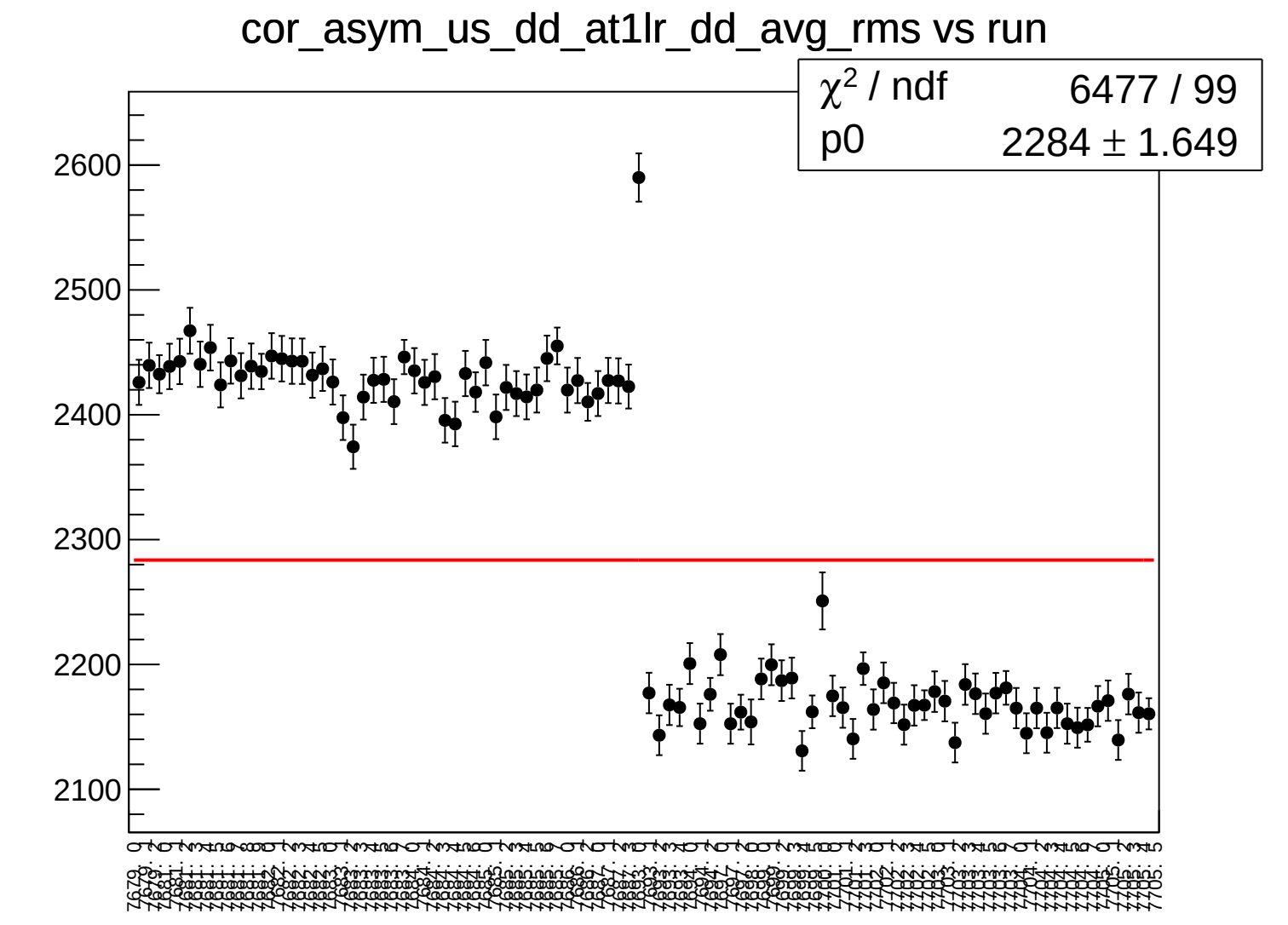

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 6477 / 99
p0 2284 ± 1.649
2600
2500
2400
2300
2200
2100

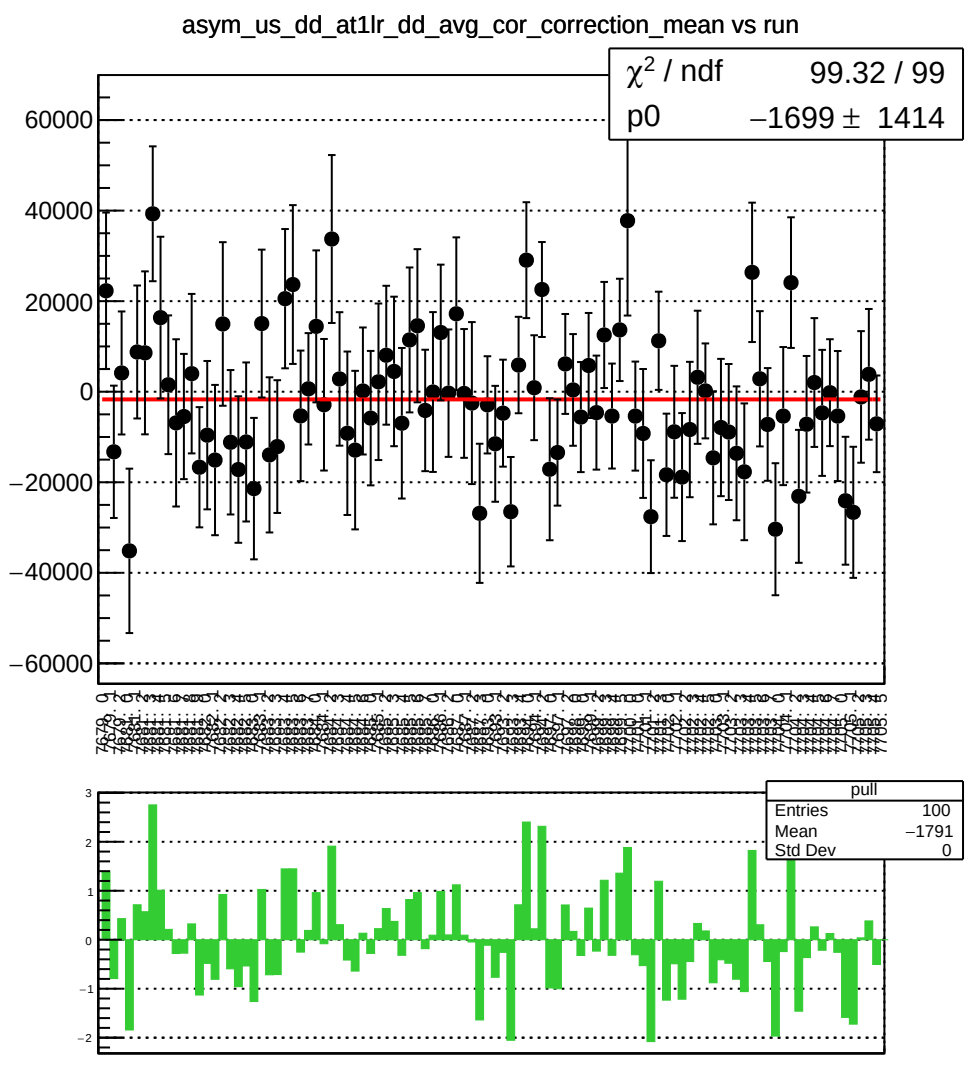

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 99.33 / 99
p0 −1698 ± 1414
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −1785
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.002637
Std Dev 0.9966
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

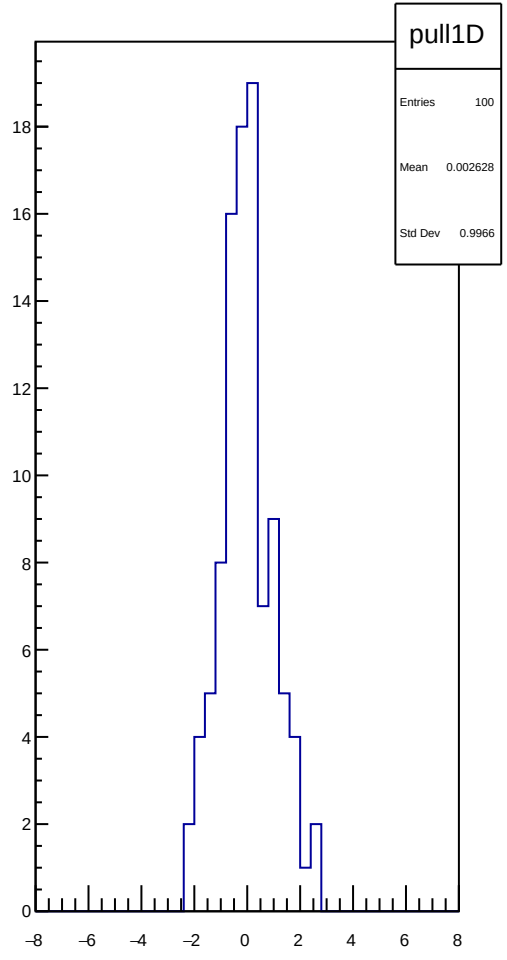

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 3.272e+04 / 99
p0 1376 ± 1
1800
1700
1600
1500
1400
1300
1200
1100
1000

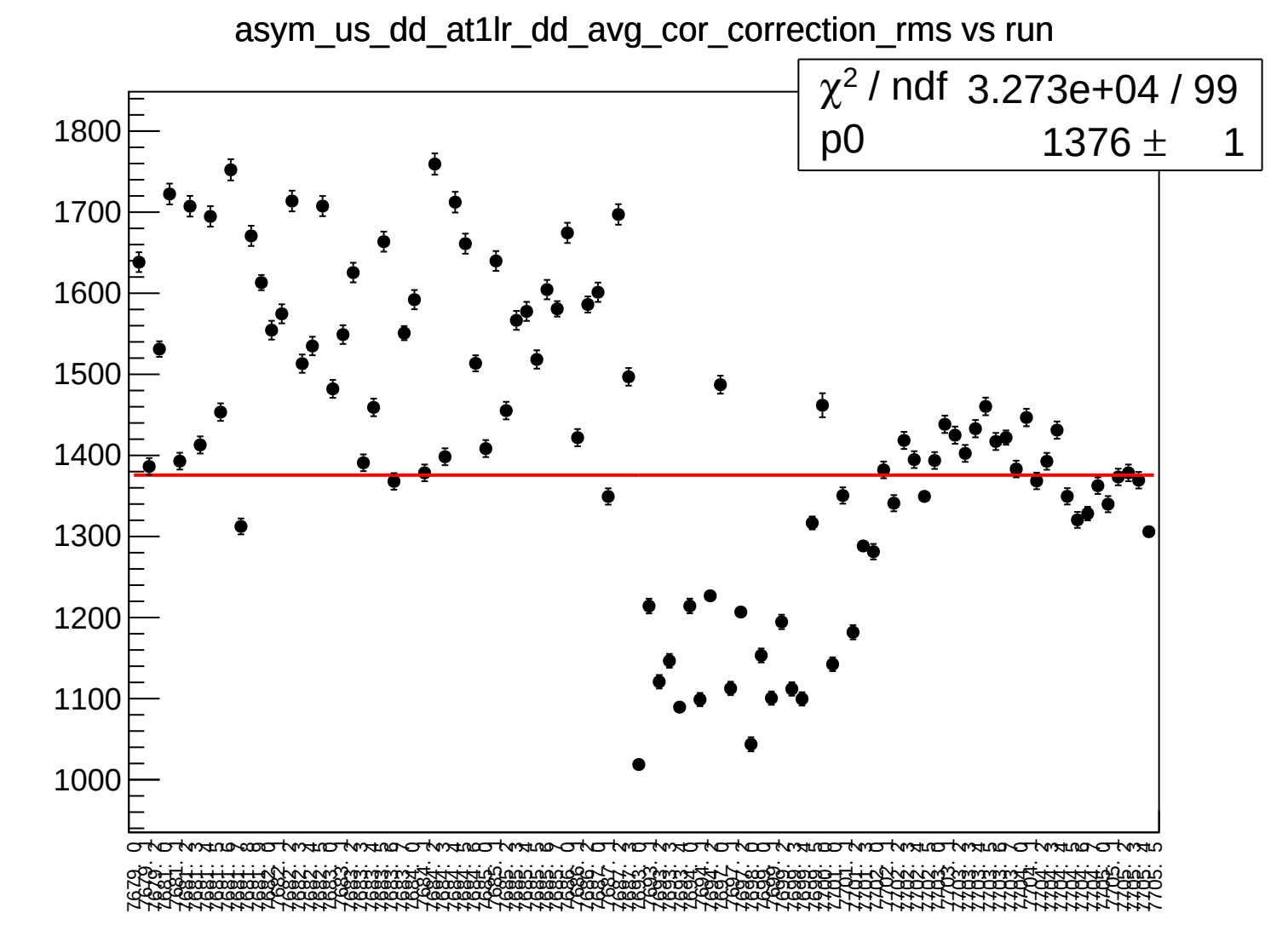

cor_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 109.2 / 99
p0 −1857 ± 2331
100
50
0
−50
−100
pull
Entries 100
Mean 1.682e+04
Std Dev 0
2
1
0
−1
−2
−3

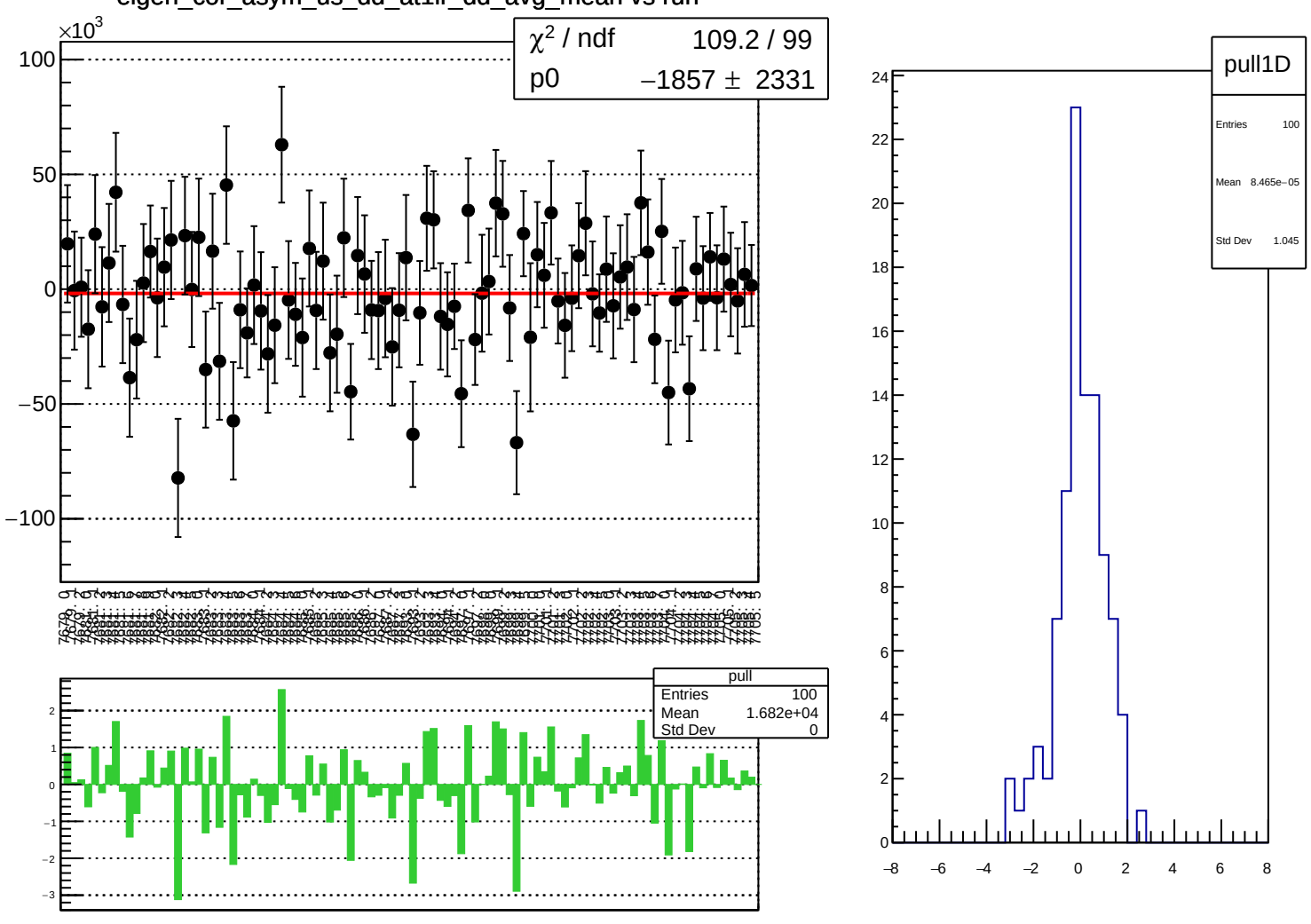

pull1D
Entries 100
Mean 8.465e−05
Std Dev 1.045
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

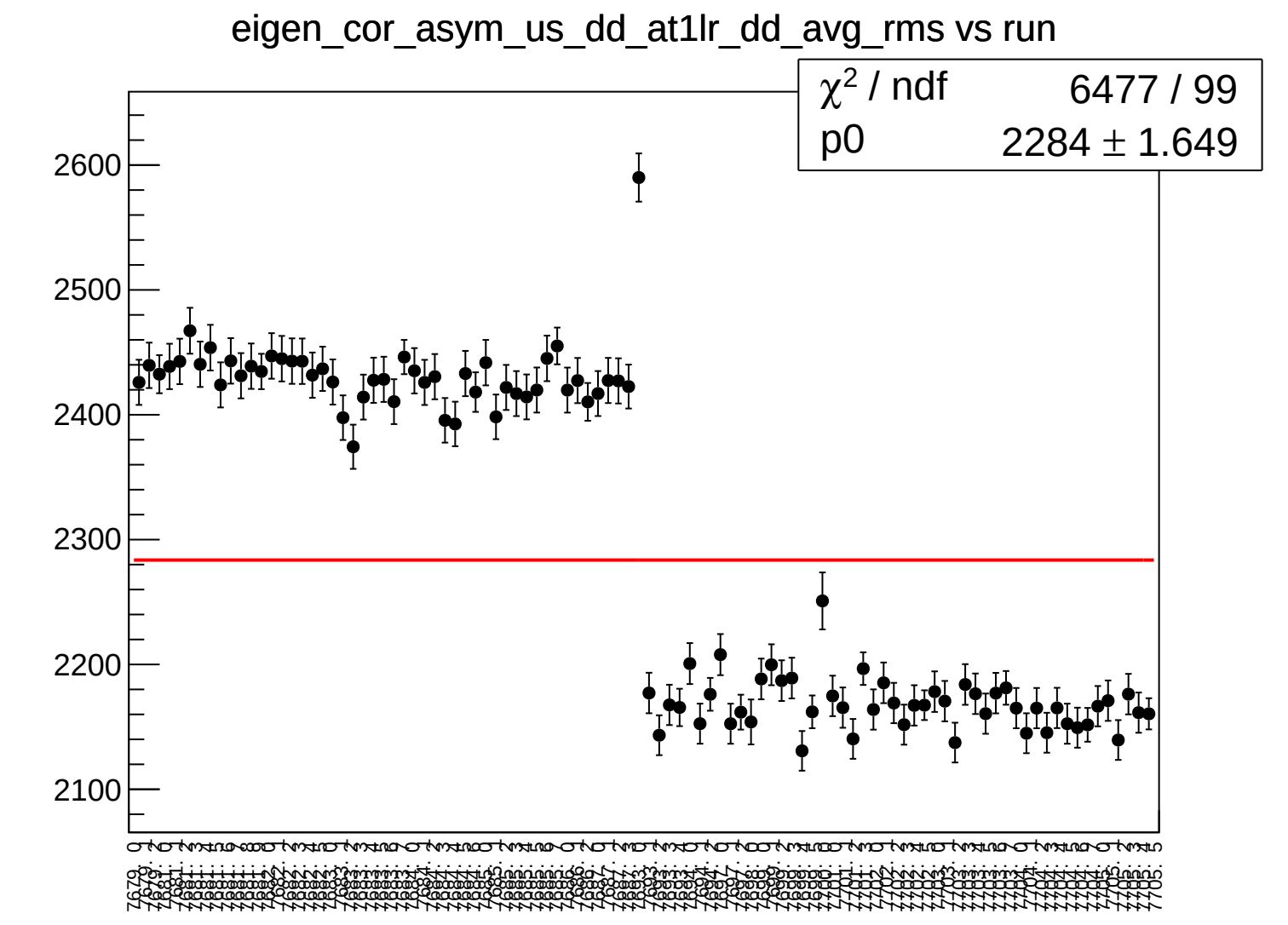

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 6477 / 99
p0 2284 ± 1.649
2600
2500
2400
2300
2200
2100

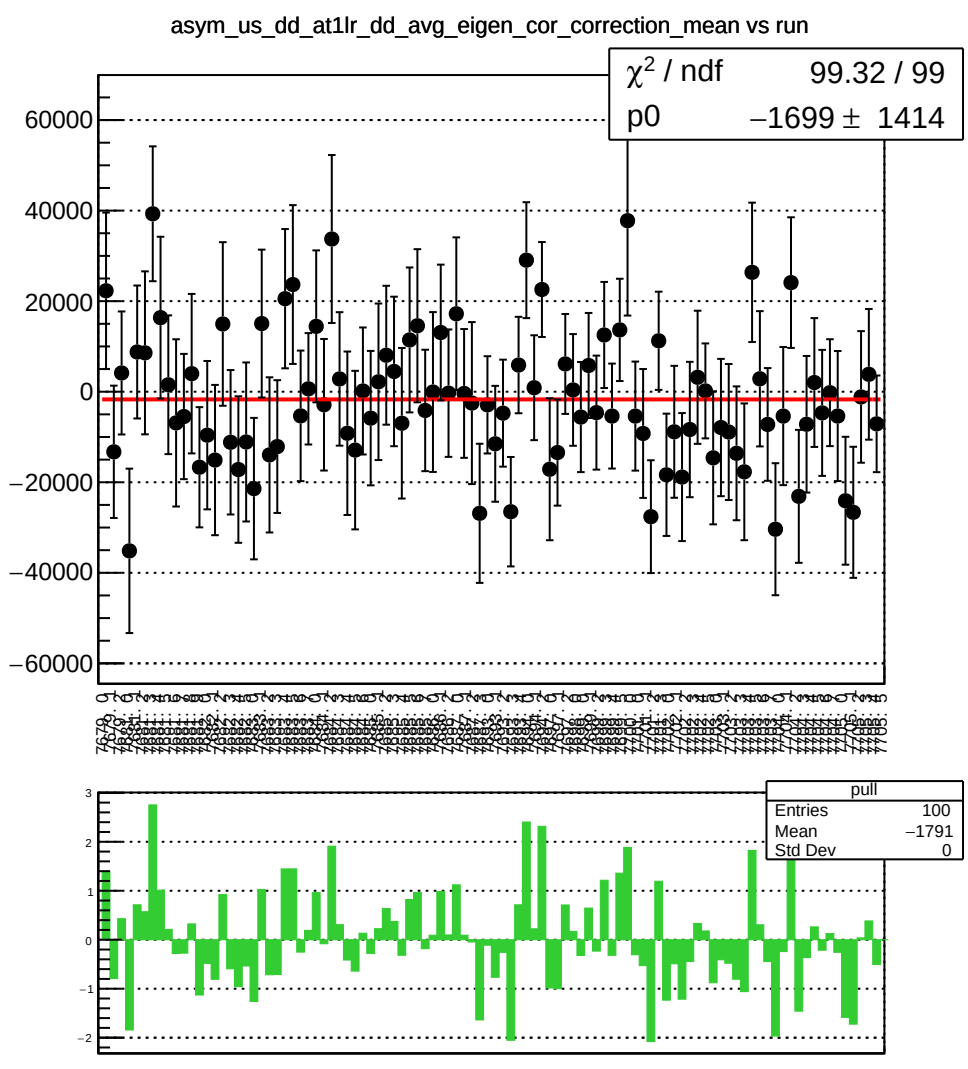

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 99.32 / 99
p0 −1699 ± 1414
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −1791
Std Dev 0
3
2
1
0
−1
−2

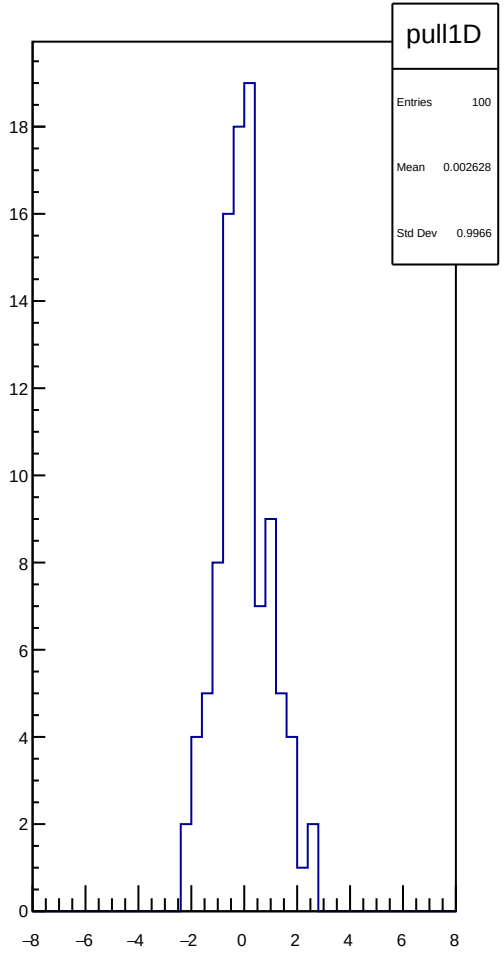

pull1D
Entries 100
Mean 0.002628
Std Dev 0.9966
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

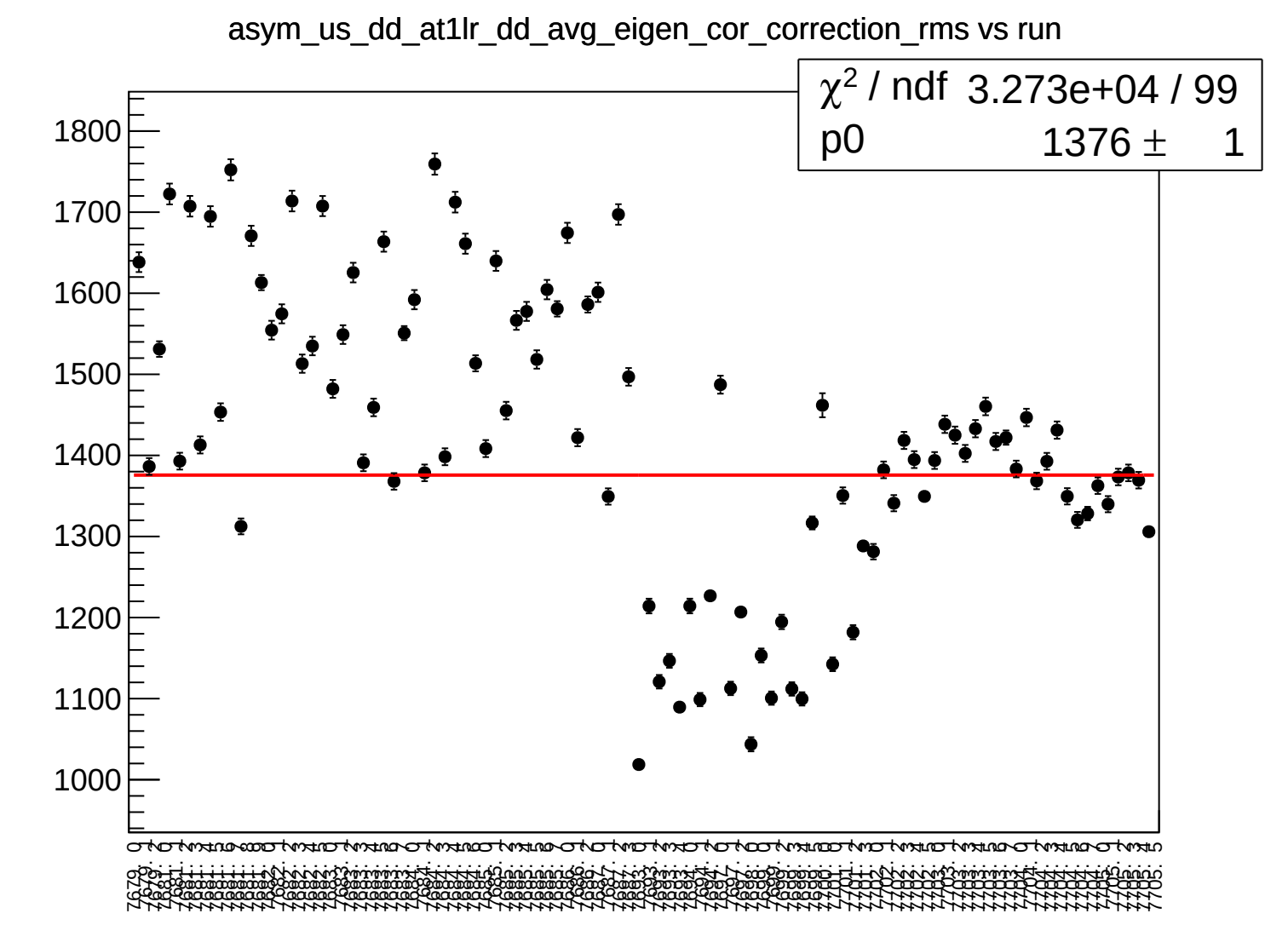

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 3.273e+04 / 99
p0 1376 ± 1
1800
1700
1600
1500
1400
1300
1200
1100
1000

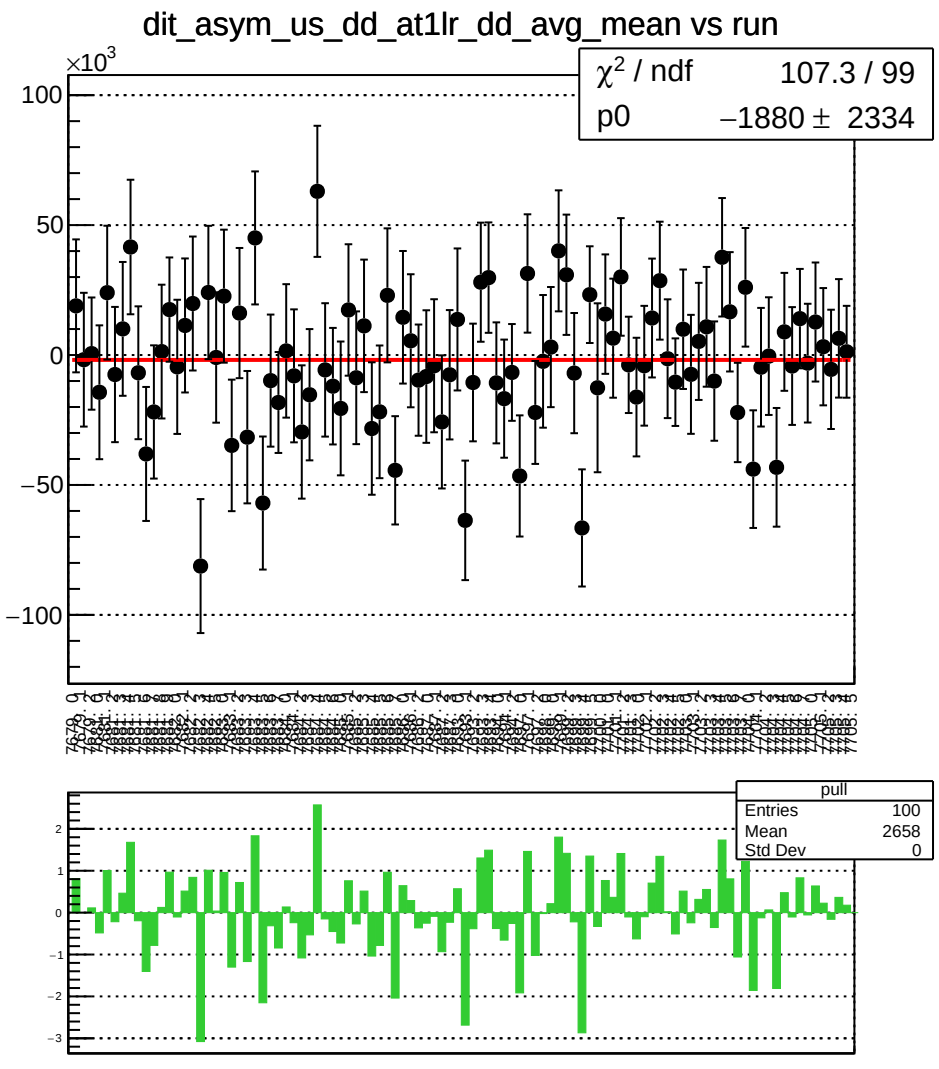

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 109.2 / 99
p0 −1857 ± 2331
100
50
0
−50
−100
pull
Entries 100
Mean 1.682e+04
Std Dev 0
pull1D
Entries 100
Mean 8.465e−05
Std Dev 1.045

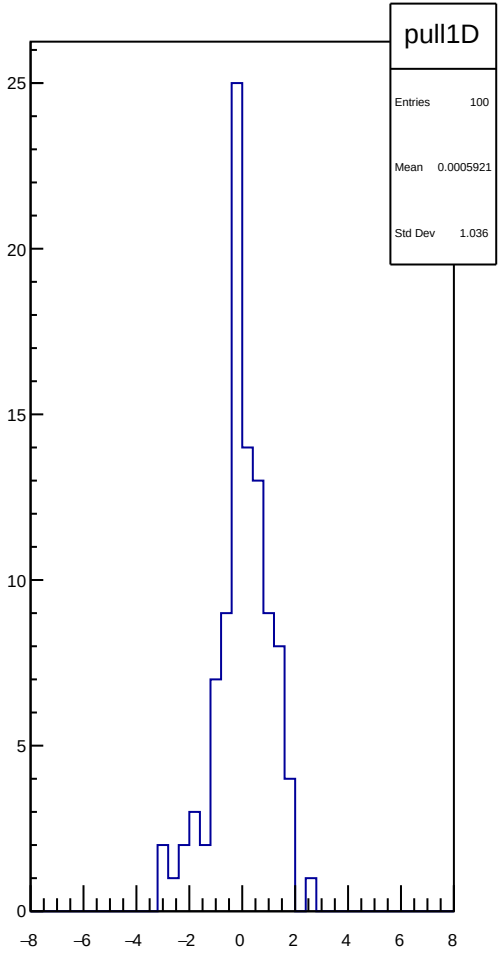

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 6477 / 99
p0 2284 ± 1.649
2600
2500
2400
2300
2200
2100

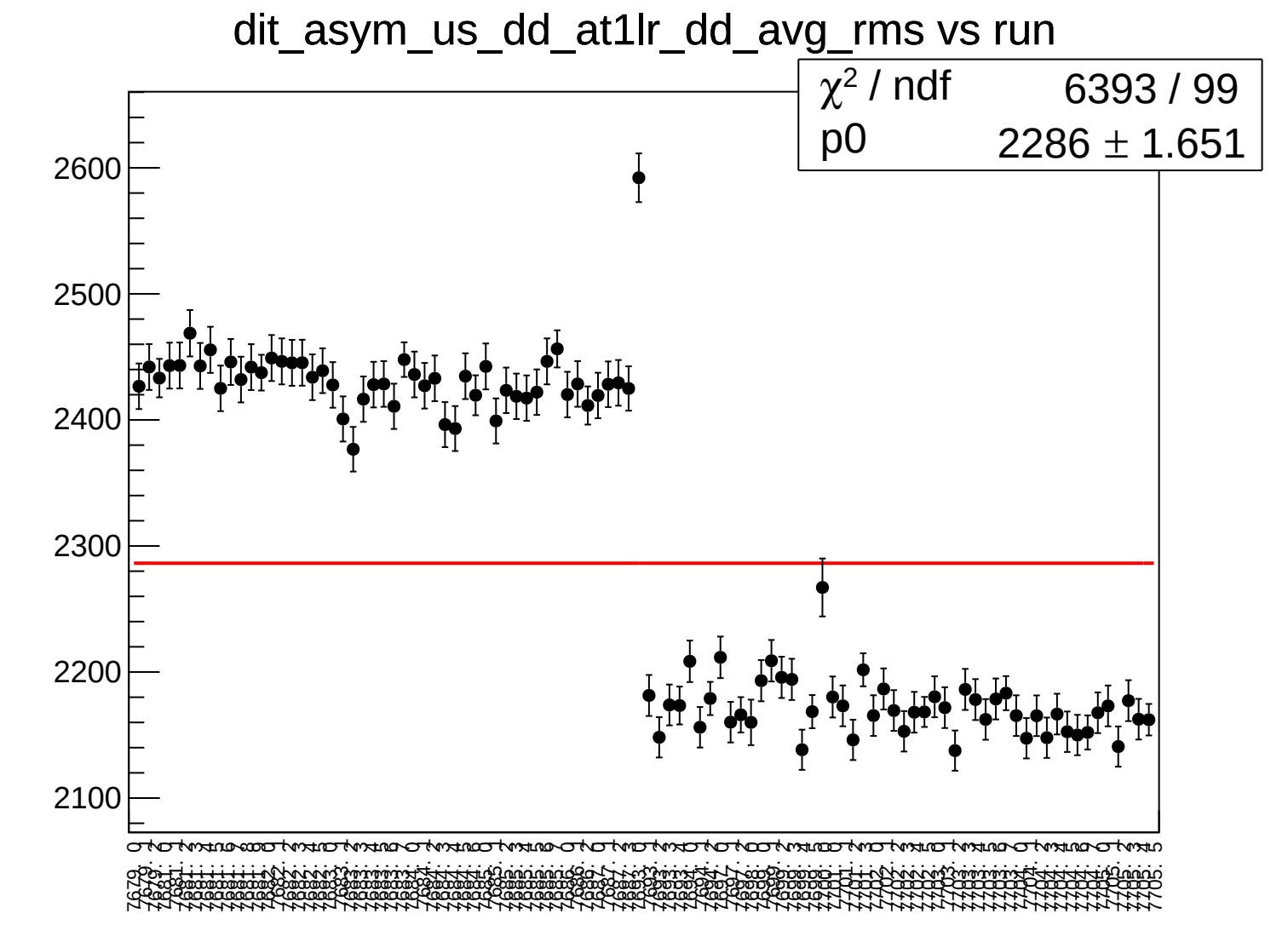

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 99.32 / 99
p0 −1699 ± 1414
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −1791
Std Dev 0
3
2
1
0
−1
−2

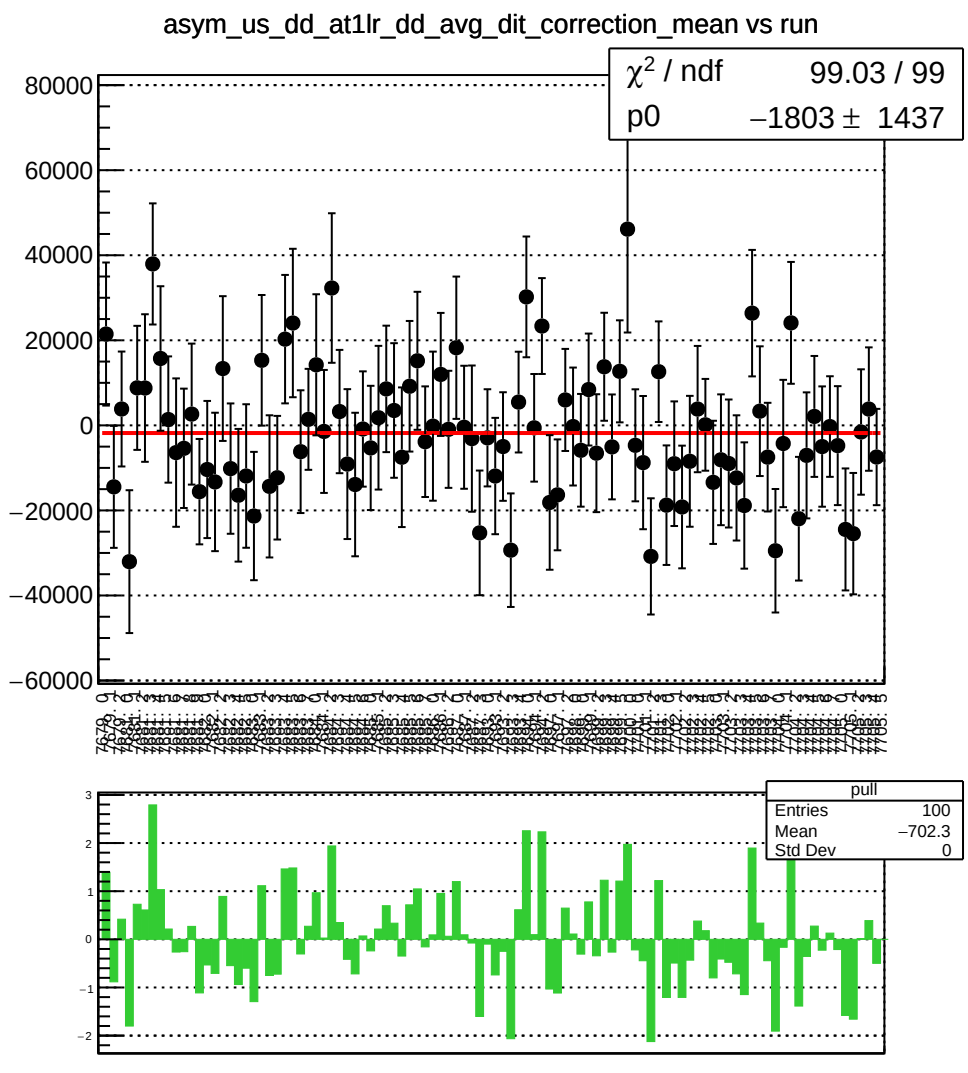

pull1D
Entries 100
Mean 0.002628
Std Dev 0.9966
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

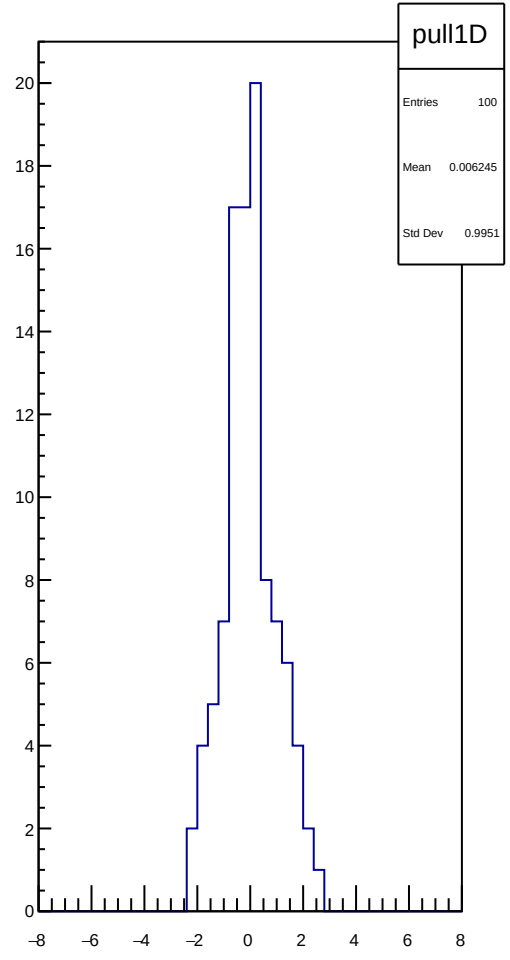

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.273e+04 / 99
p0 1376 ± 1
1800
1700
1600
1500
1400
1300
1200
1100
1000

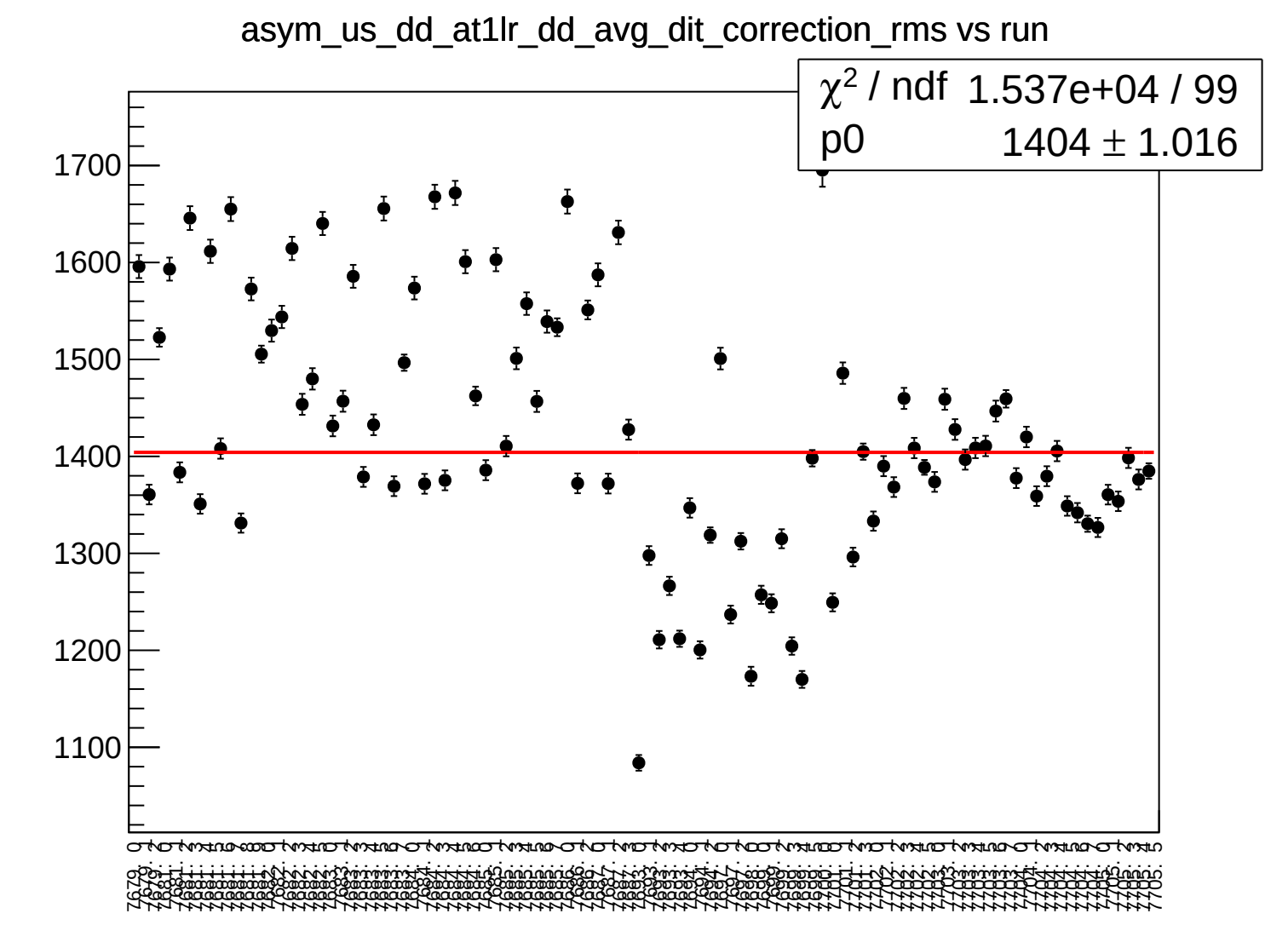

dit_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 107.3 / 99
p0 −1880 ± 2334
100
50
0
−50
−100
pull
Entries 100
Mean 2658
Std Dev 0
2
1
0
−1
−2
−3

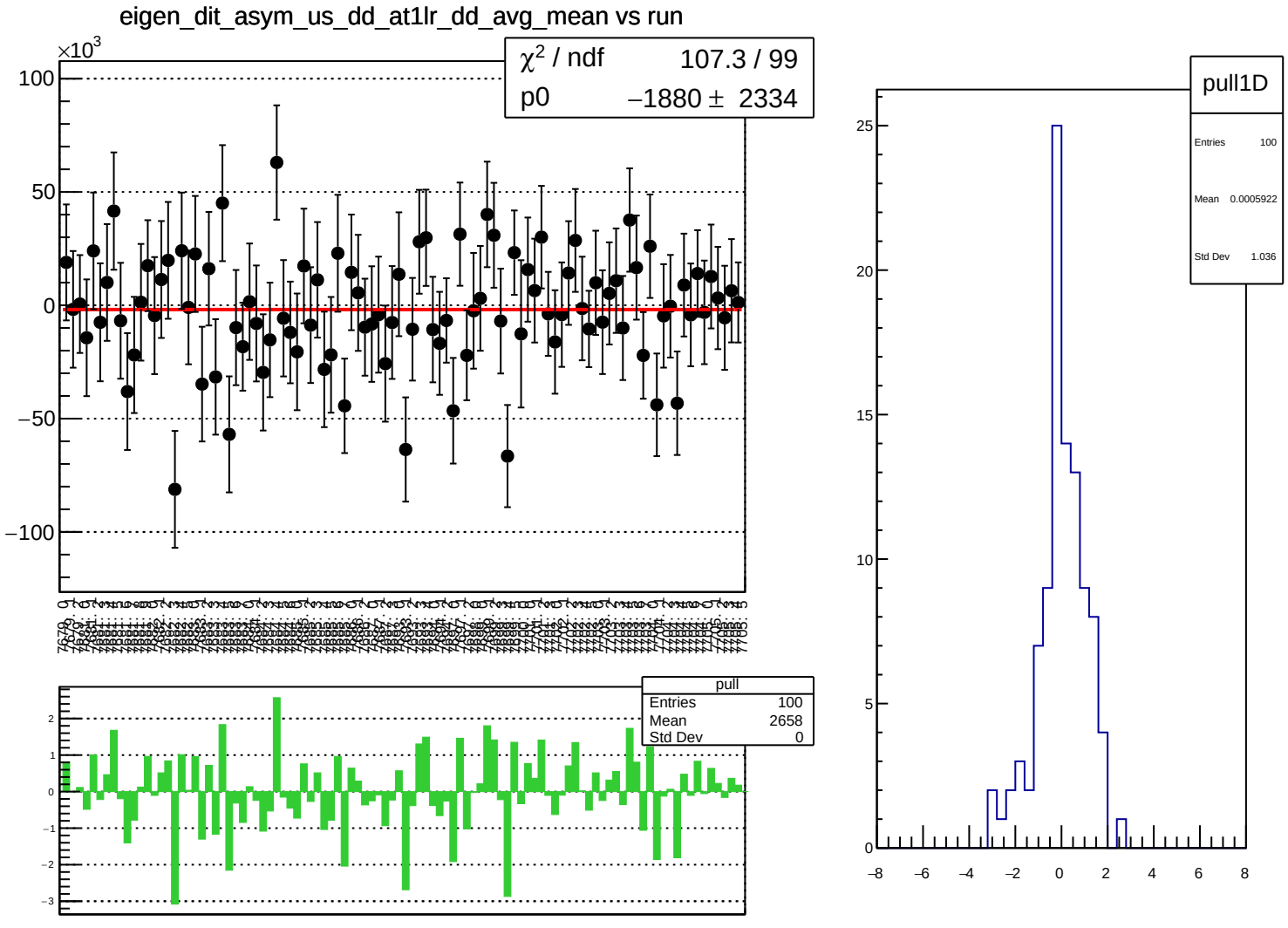

pull1D
Entries 100
Mean 0.0005921
Std Dev 1.036
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

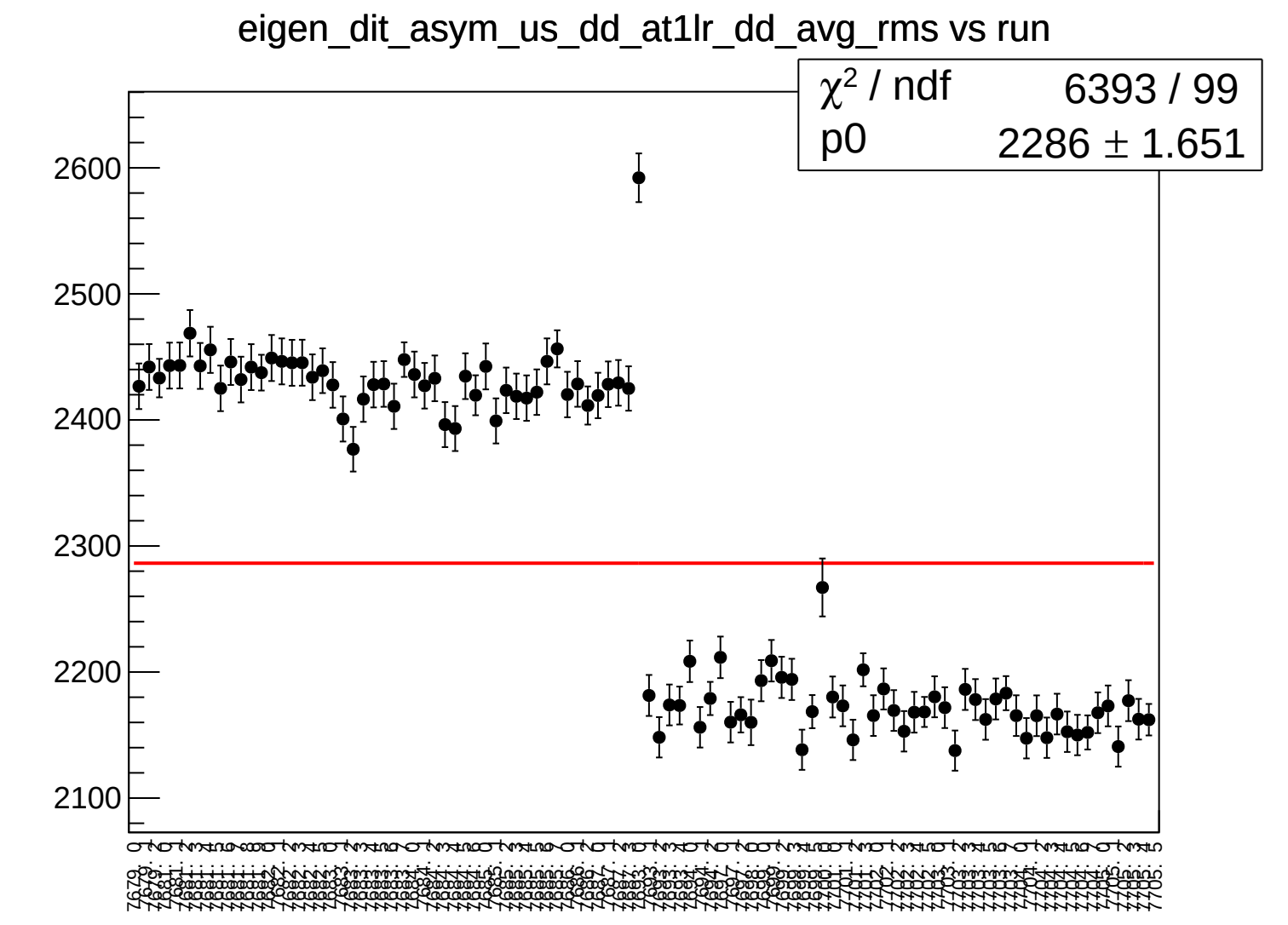

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 6393 / 99
p0 2286 ± 1.651
2600
2500
2400
2300
2200
2100

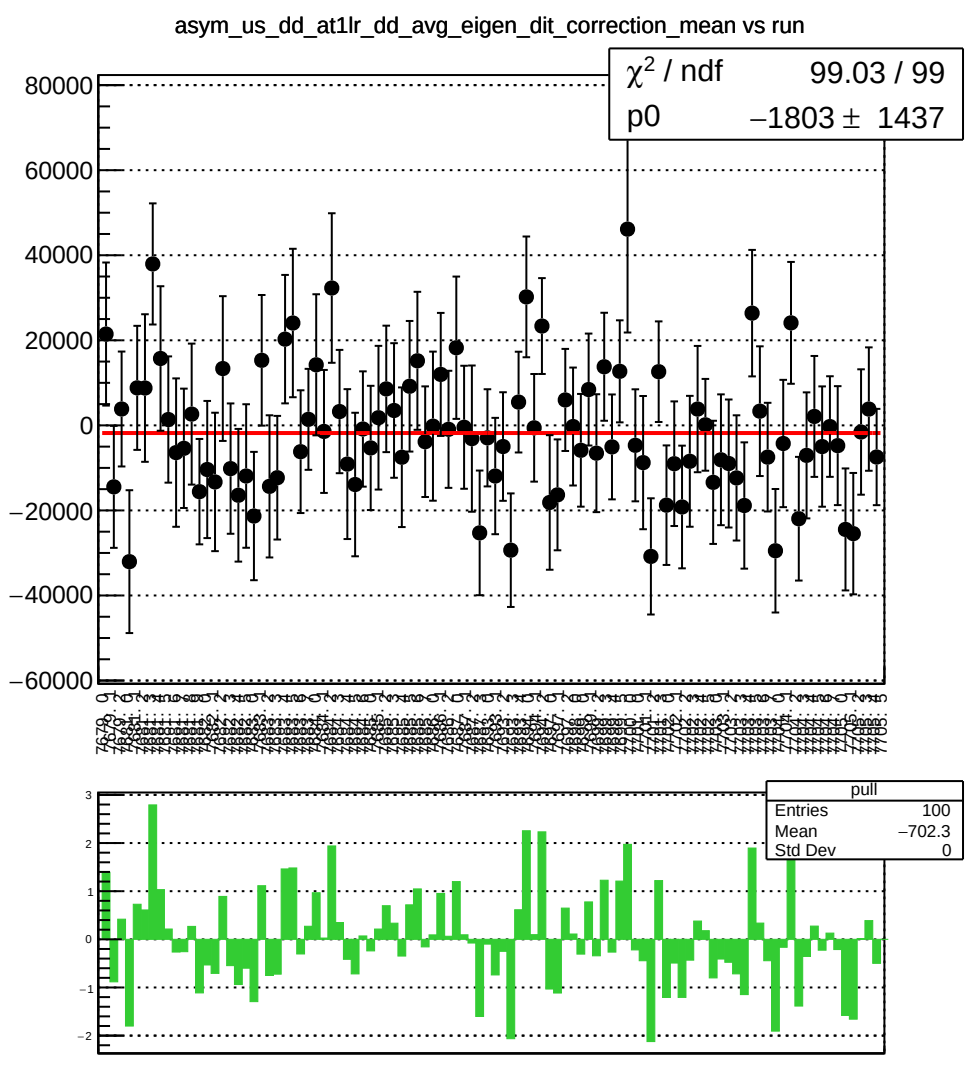

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 99.03 / 99
p0 −1803 ± 1437
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −702.3
Std Dev 0
3
2
1
0
−1
−2

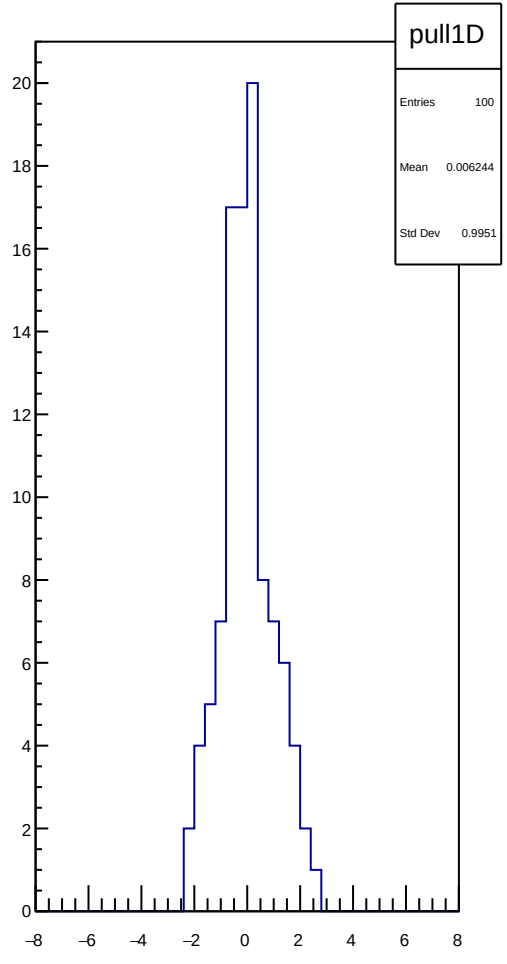

pull1D
Entries 100
Mean 0.006245
Std Dev 0.9951
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

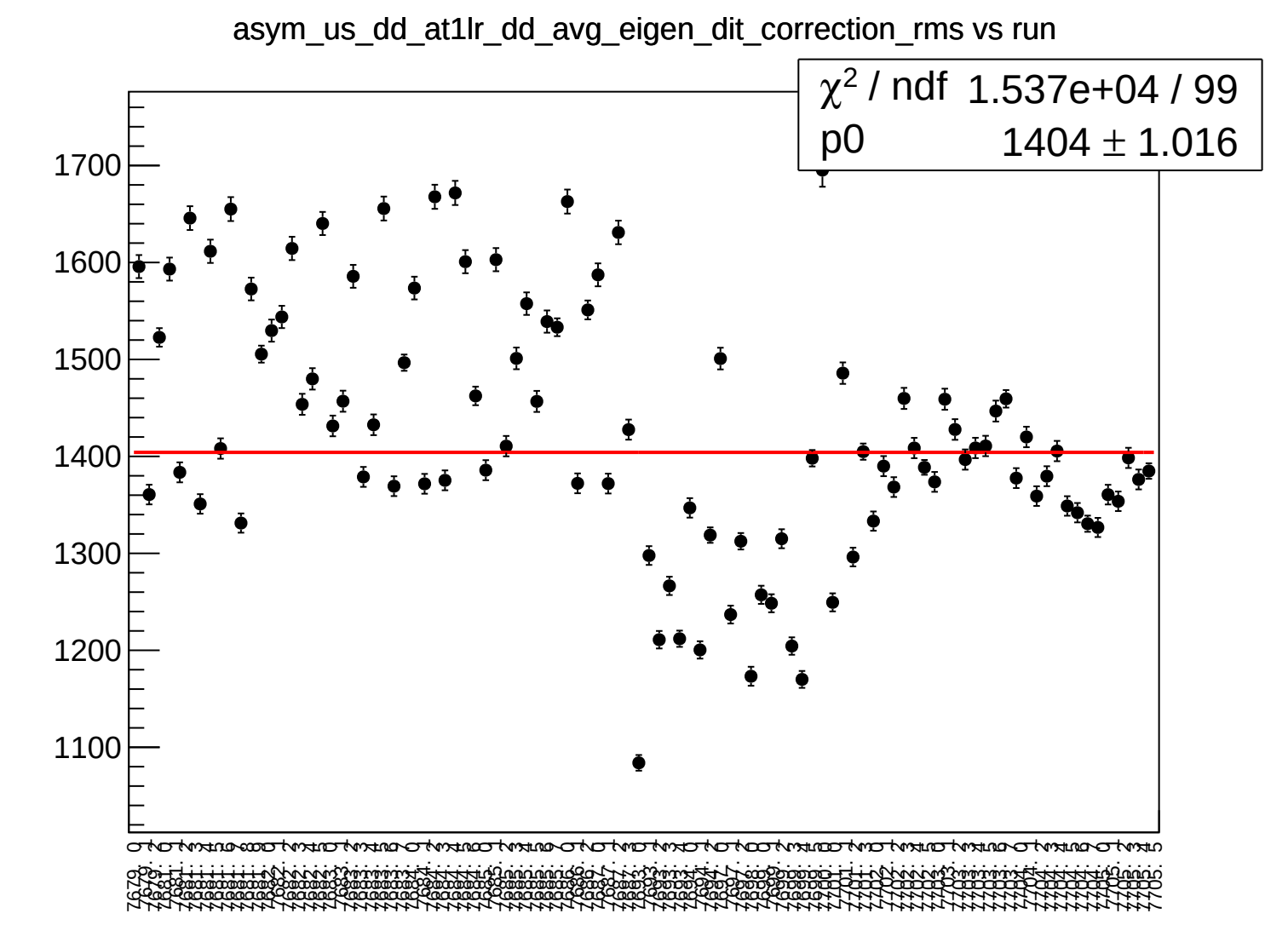

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.537e+04 / 99
p0 1404 ± 1.016
1700
1600
1500
1400
1300
1200
1100

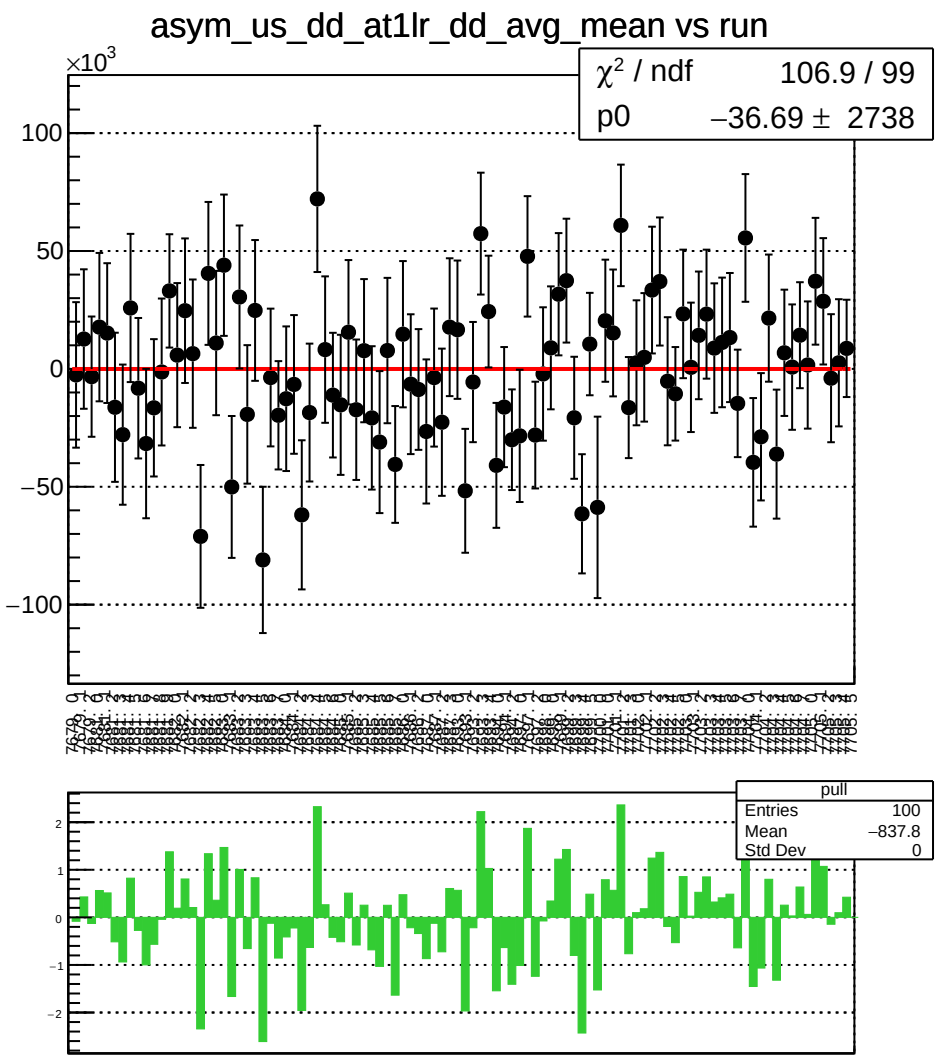

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 107.3 / 99
p0 −1880 ± 2334
100
50
0
−50
−100
pull
Entries 100
Mean 2658
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean 0.0005922
Std Dev 1.036
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

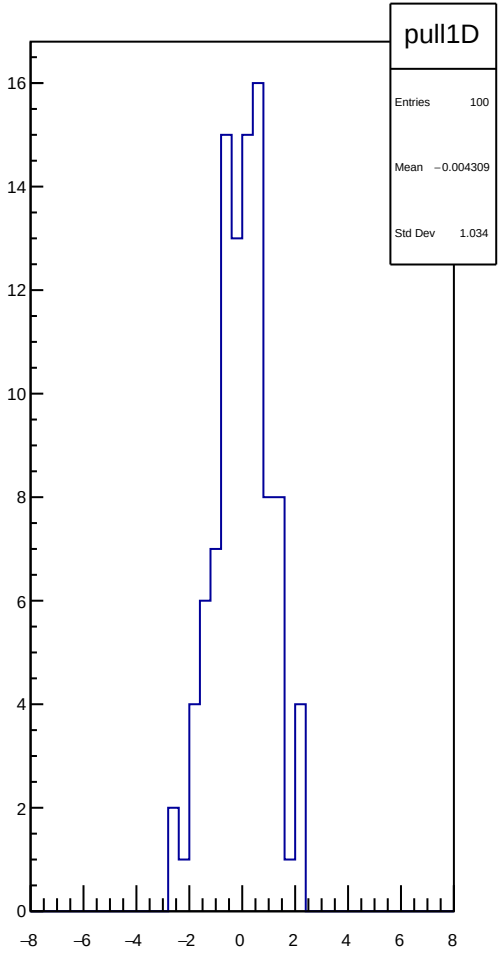

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 6393 / 99
p0 2286 ± 1.651
2600
2500
2400
2300
2200
2100

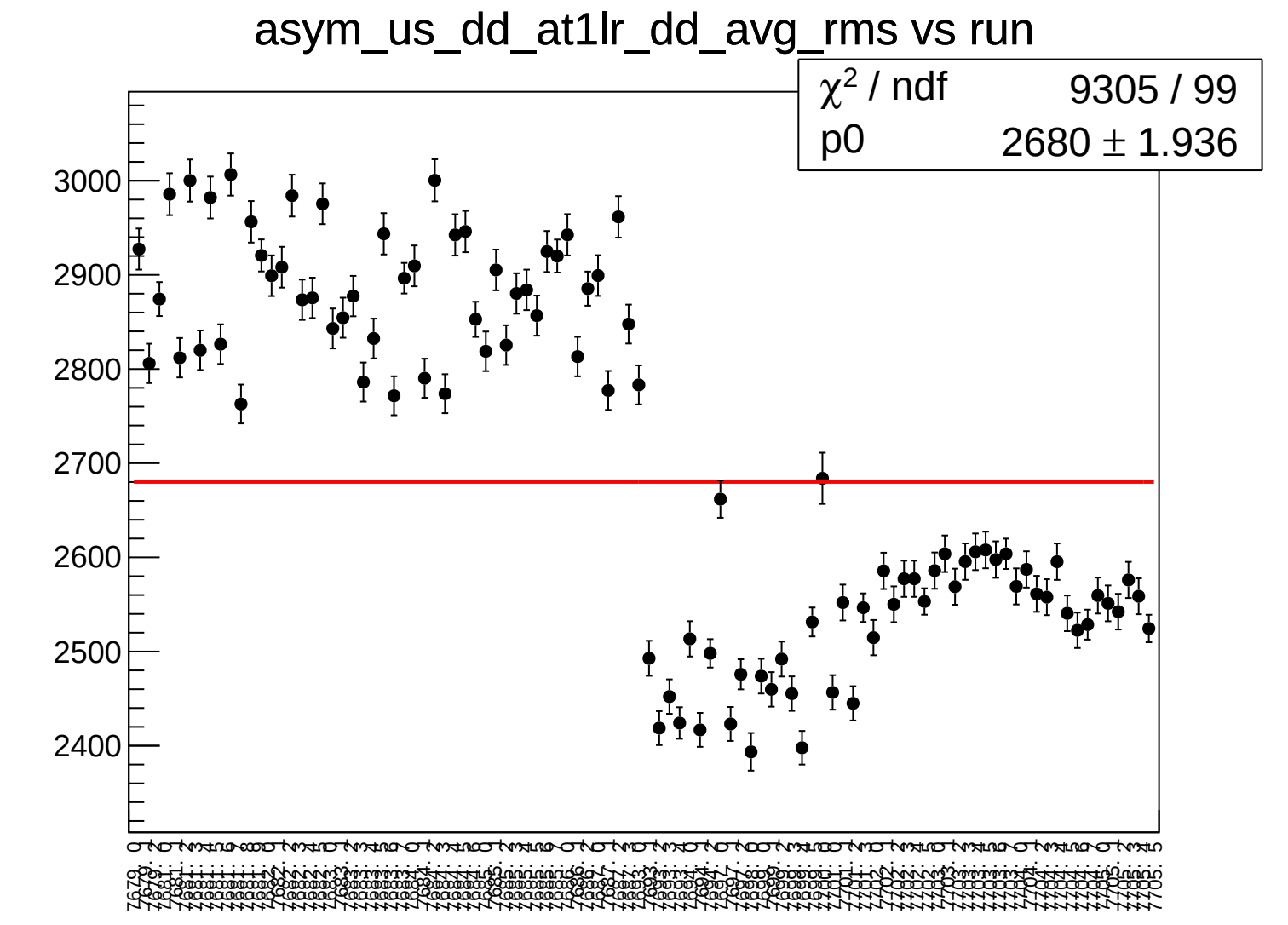

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 99.03 / 99
p0 −1803 ± 1437
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −702.3
Std Dev 0
3
2
1
0
−1
−2

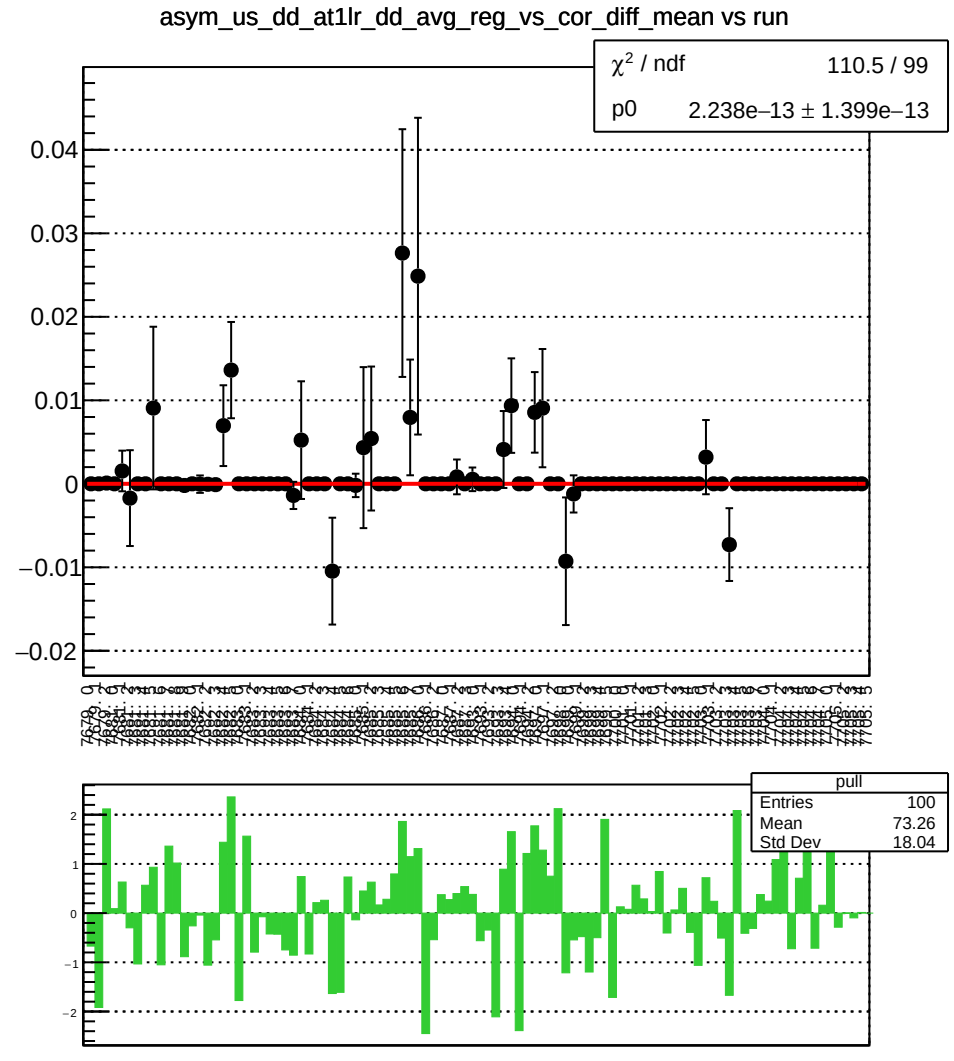

pull1D
Entries 100
Mean 0.006244
Std Dev 0.9951
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

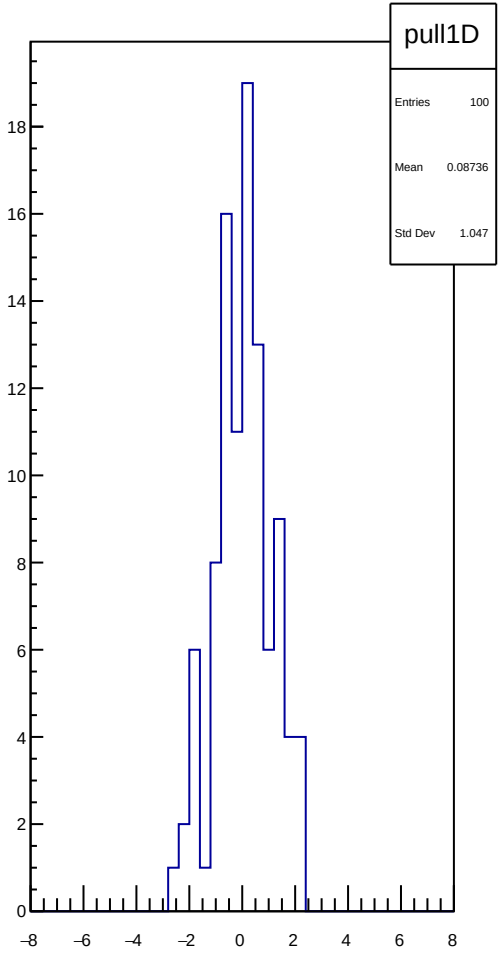

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.537e+04 / 99
p0 1404 ± 1.016
1700
1600
1500
1400
1300
1200
1100

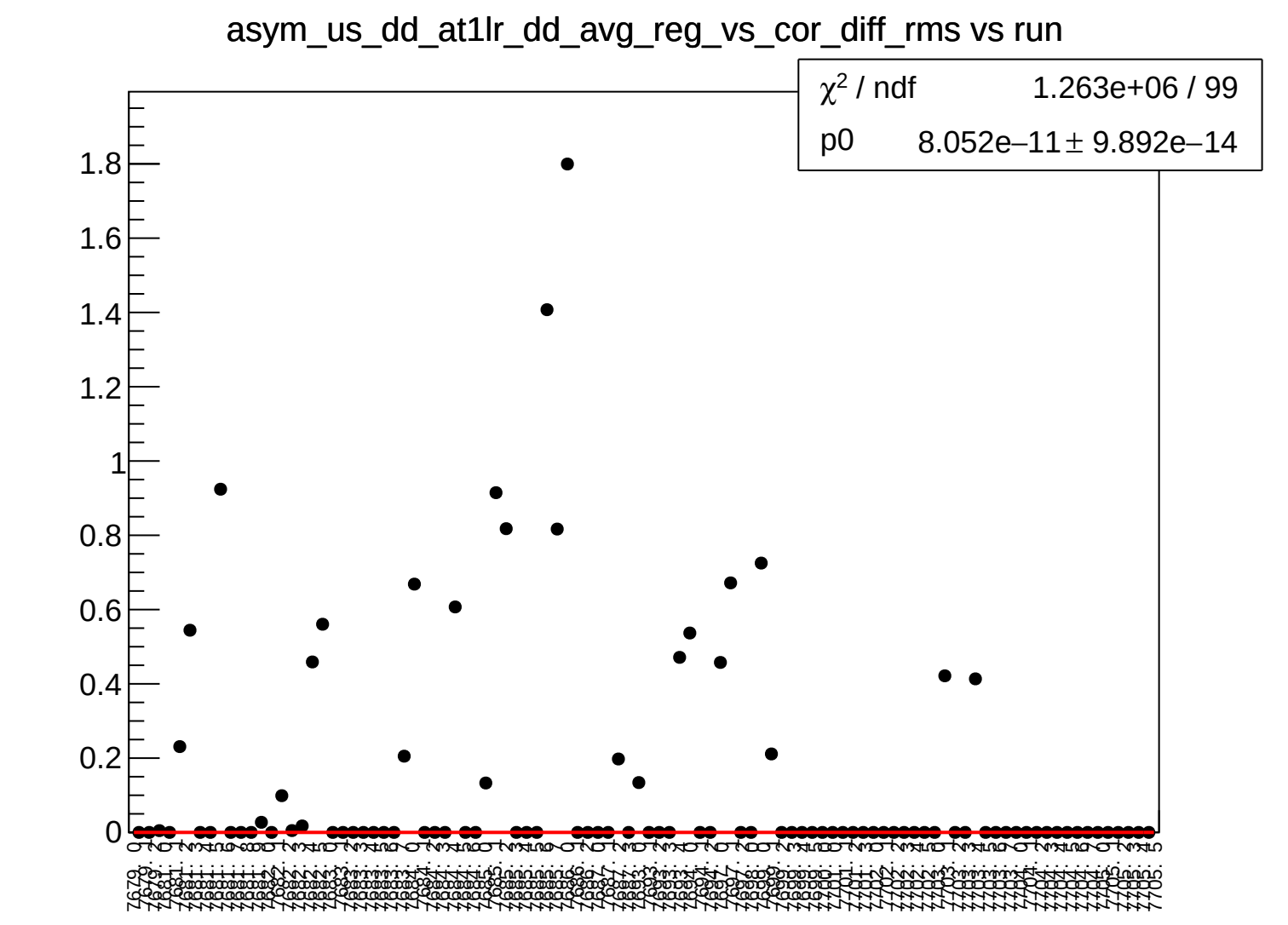

asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 106.9 / 99
p0 −36.69 ± 2738
100
50
0
−50
−100
pull
Entries 100
Mean −837.8
Std Dev 0
2
1
0
−1
−2

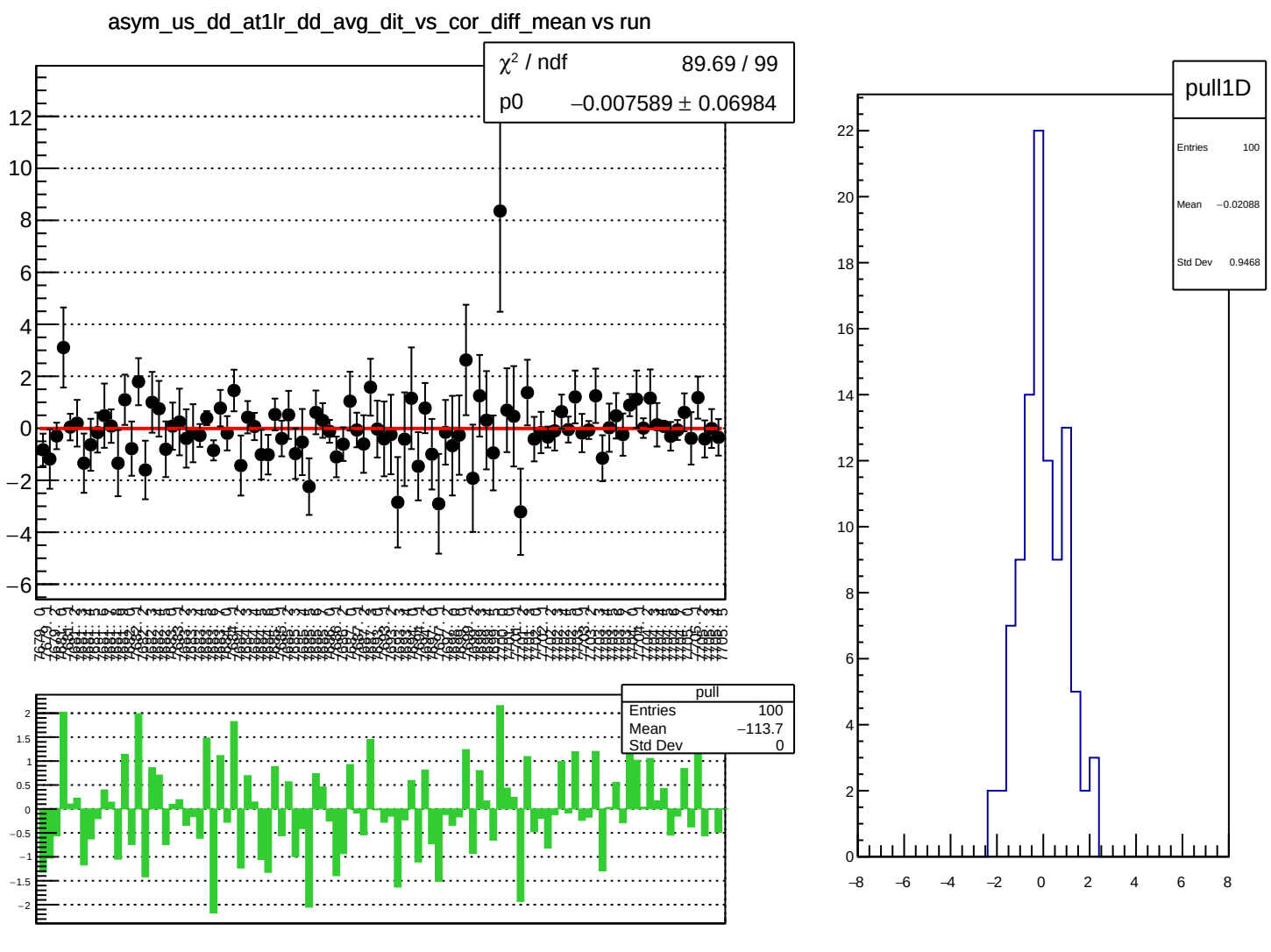

pull1D
Entries 100
Mean −0.004309
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

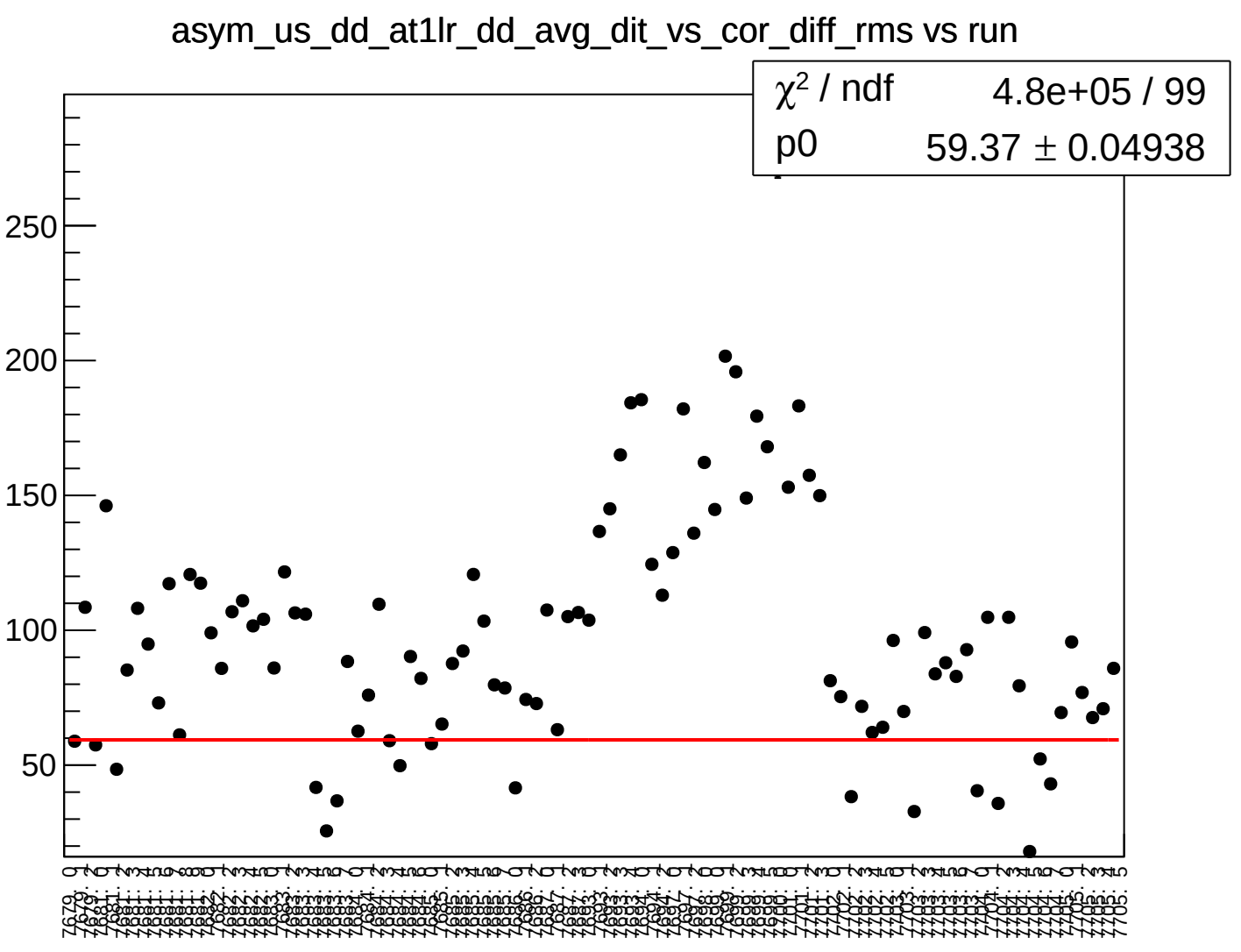

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 9305 / 99
p0 2680 ± 1.936
3000
2900
2800
2700
2600
2500
2400

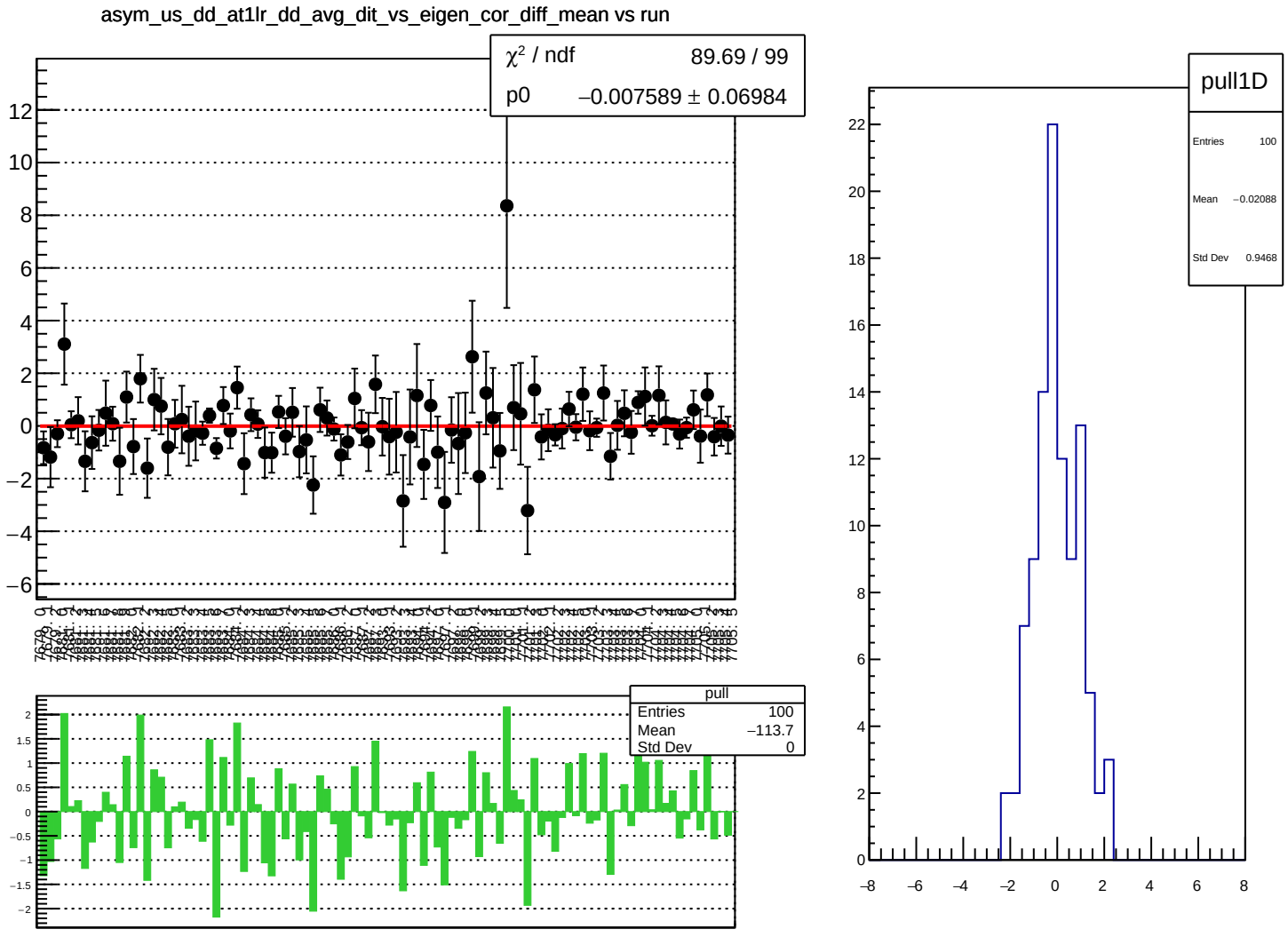

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 110.5 / 99
p0 2.238e−13 ± 1.399e−13
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 100
Mean 73.26
Std Dev 18.04
2
1
0
−1
−2

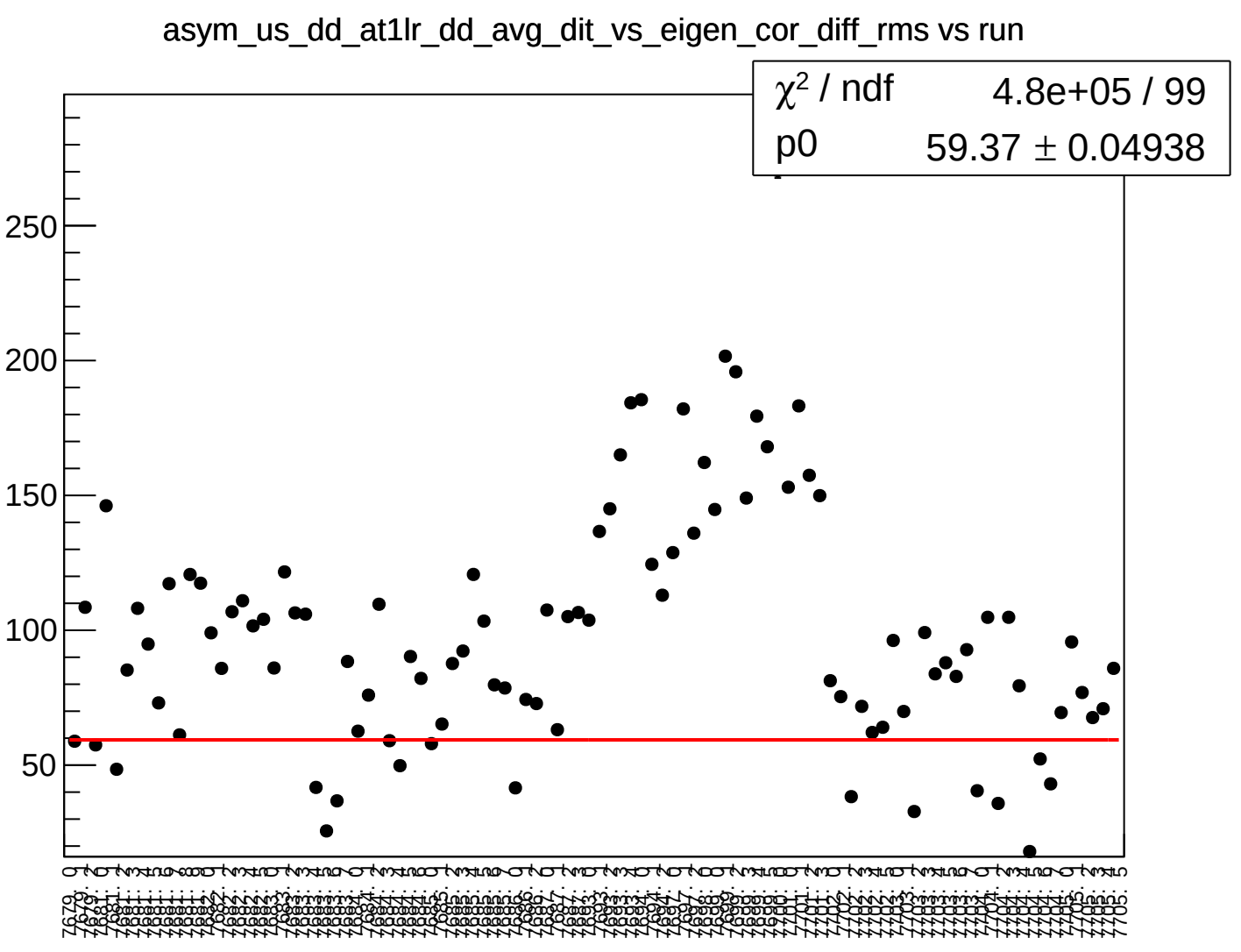

pull1D
Entries 100
Mean 0.08736
Std Dev 1.047
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

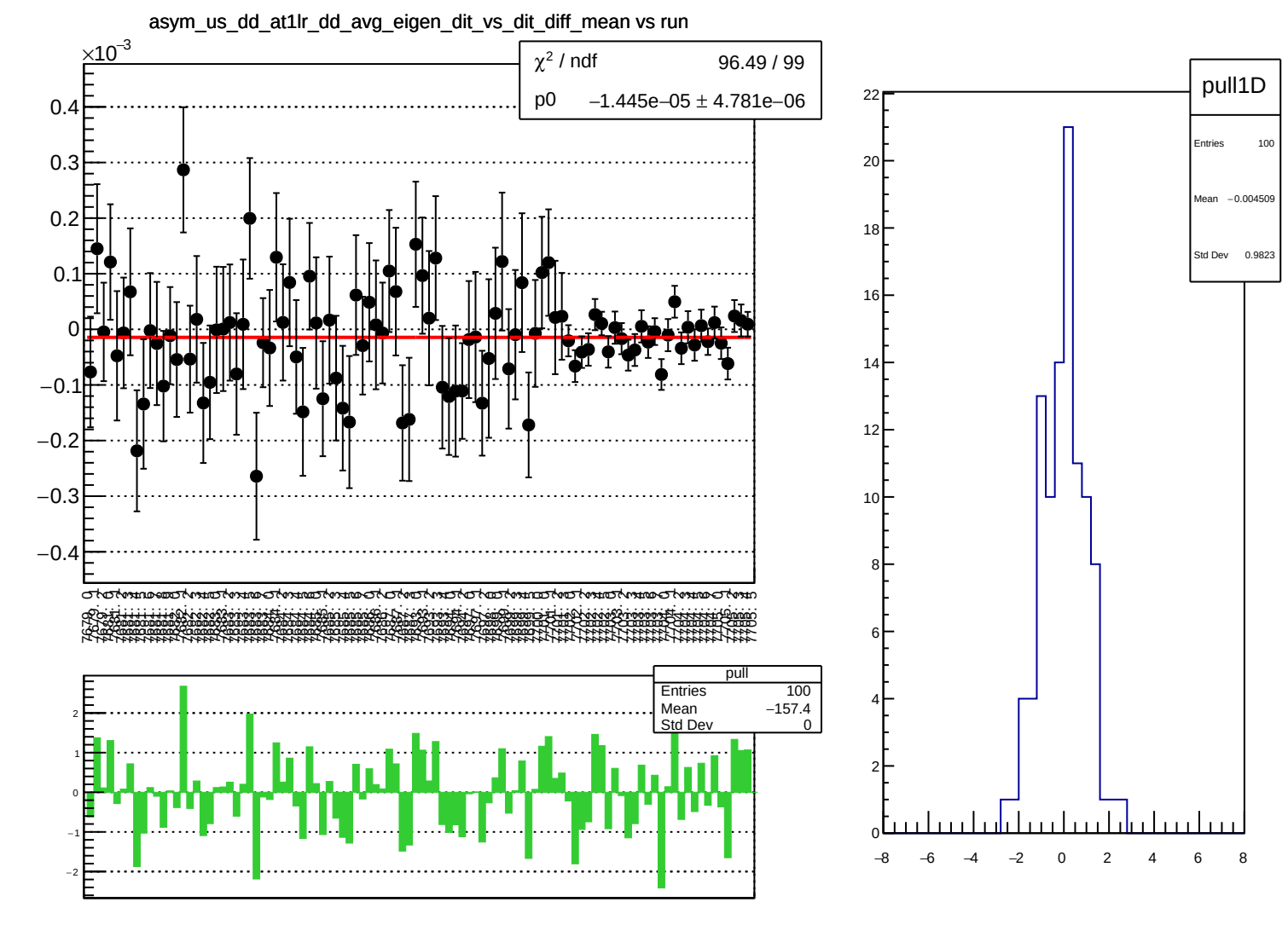

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.263e+06 / 99
p0 8.052e−11 ± 9.892e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

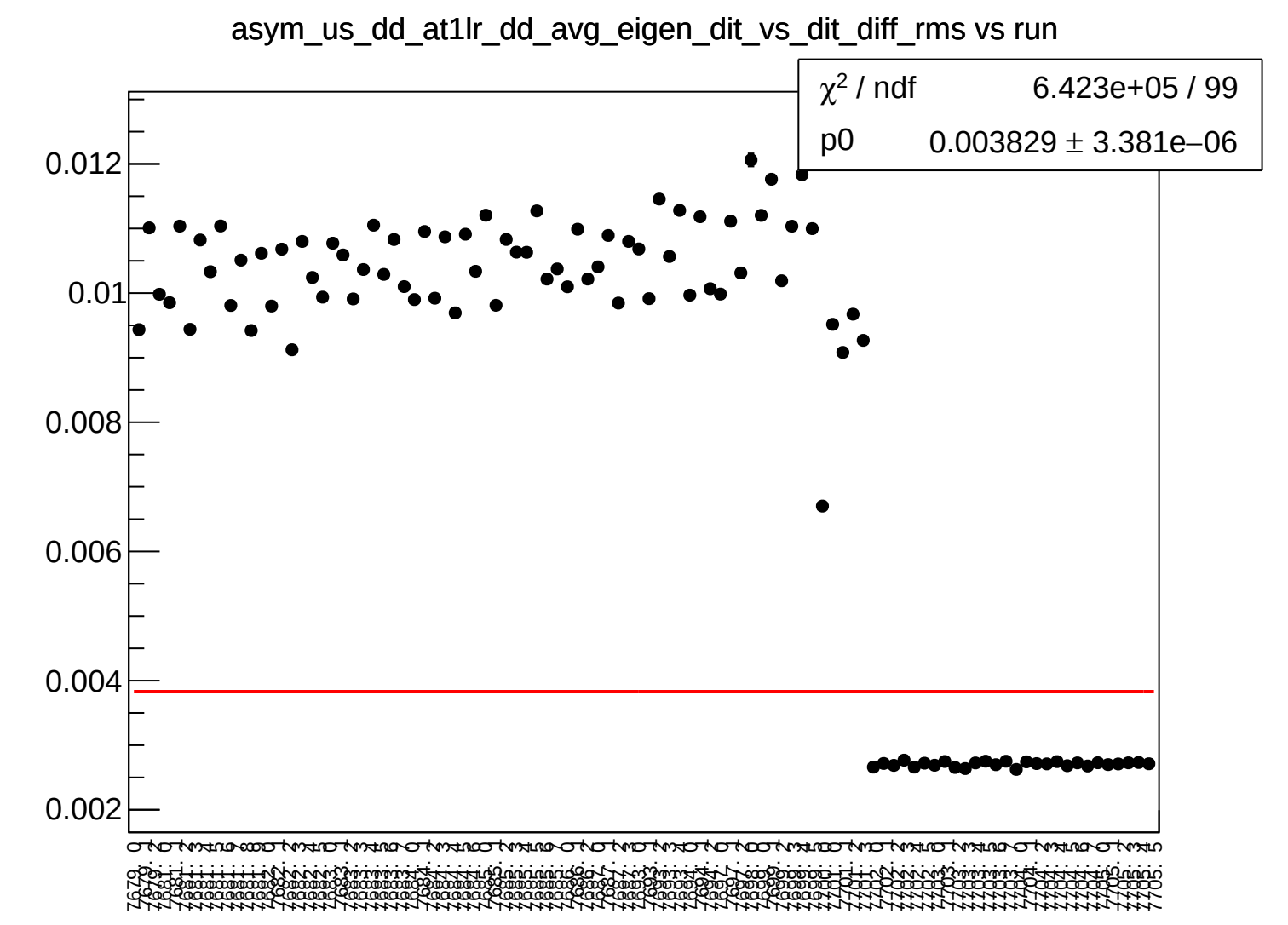

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.69 / 99
p0 −0.007589 ± 0.06984
pull
Entries 100
Mean −113.7
Std Dev 0
pull1D
Entries 100
Mean −0.02088
Std Dev 0.9468

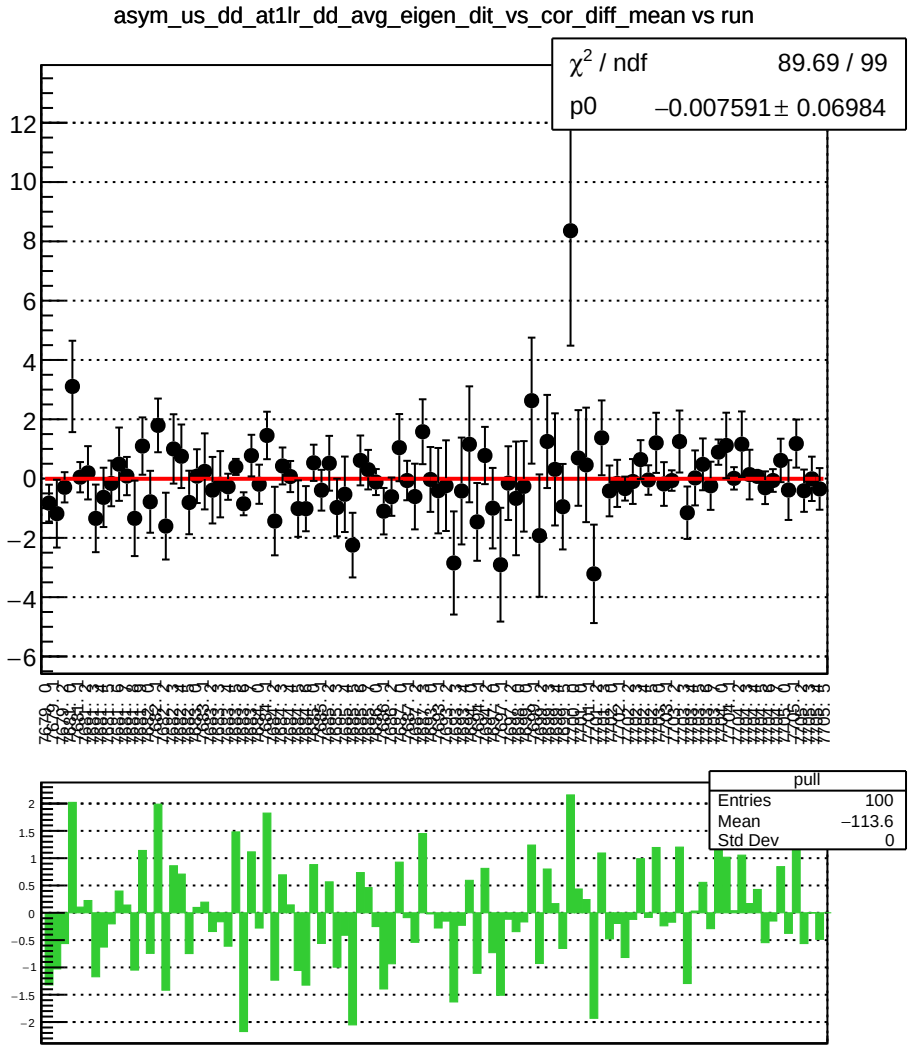

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.8e+05 / 99
p0 59.37 ± 0.04938
250
200
150
100
50

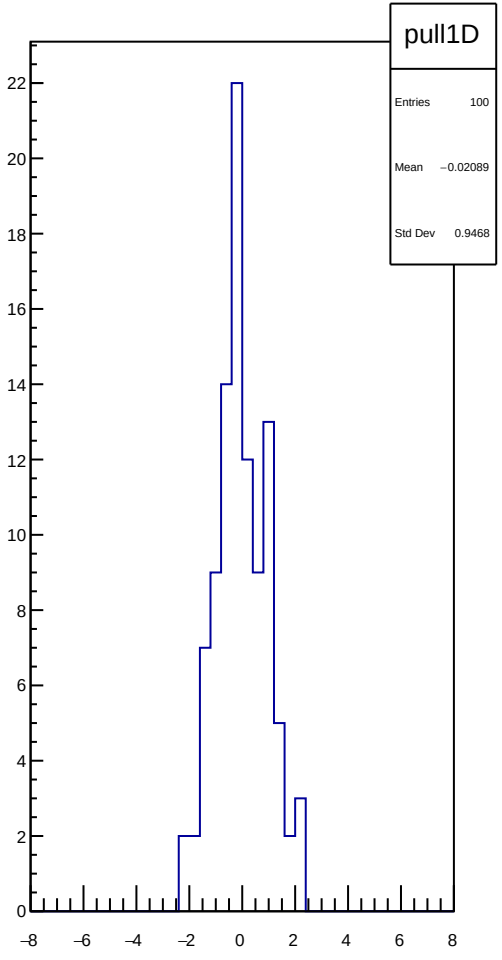

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.69 / 99
p0 −0.007589 ± 0.06984
pull
Entries 100
Mean −113.7
Std Dev 0
pull1D
Entries 100
Mean −0.02088
Std Dev 0.9468

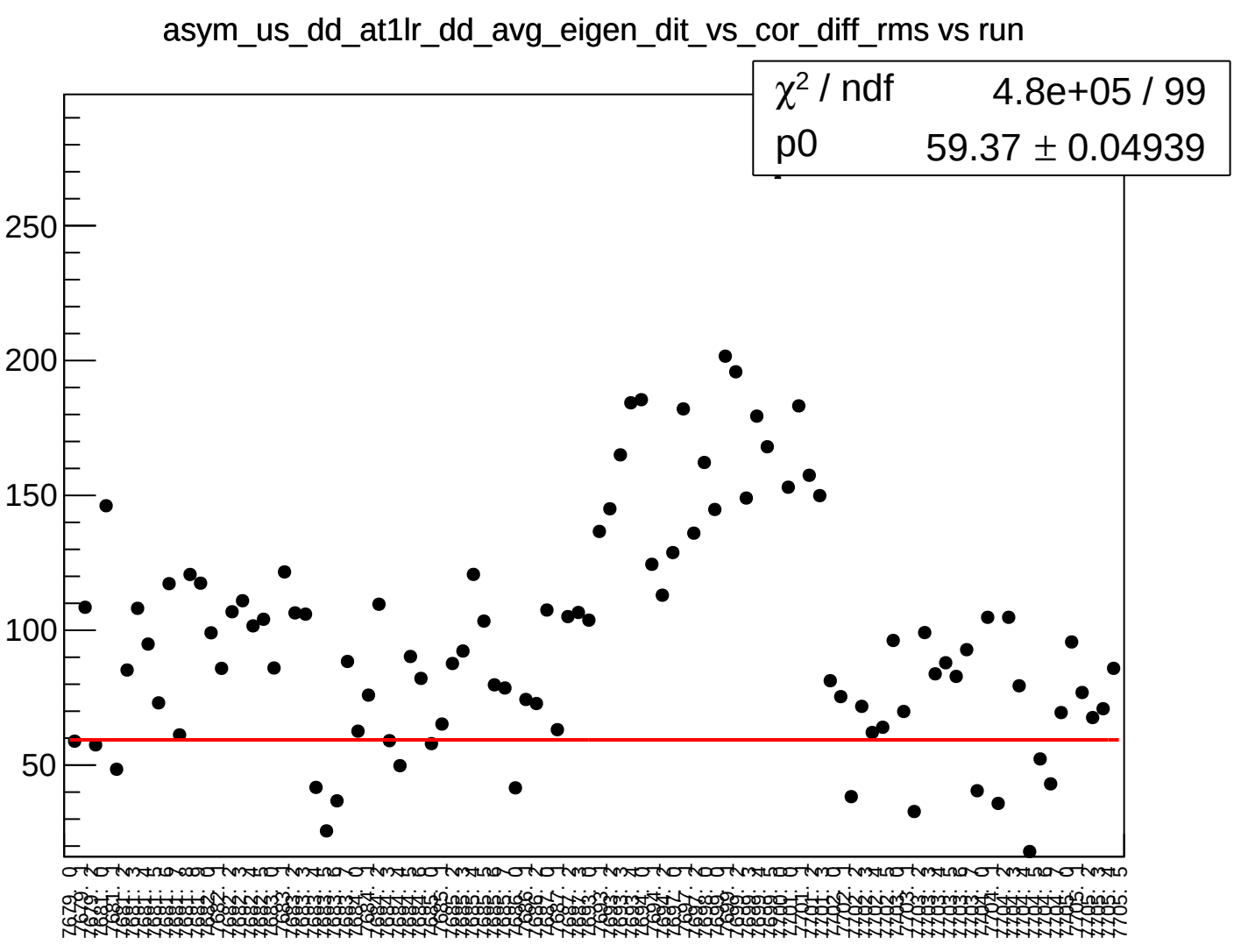

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.8e+05 / 99
p0 59.37 ± 0.04938
250
200
150
100
50

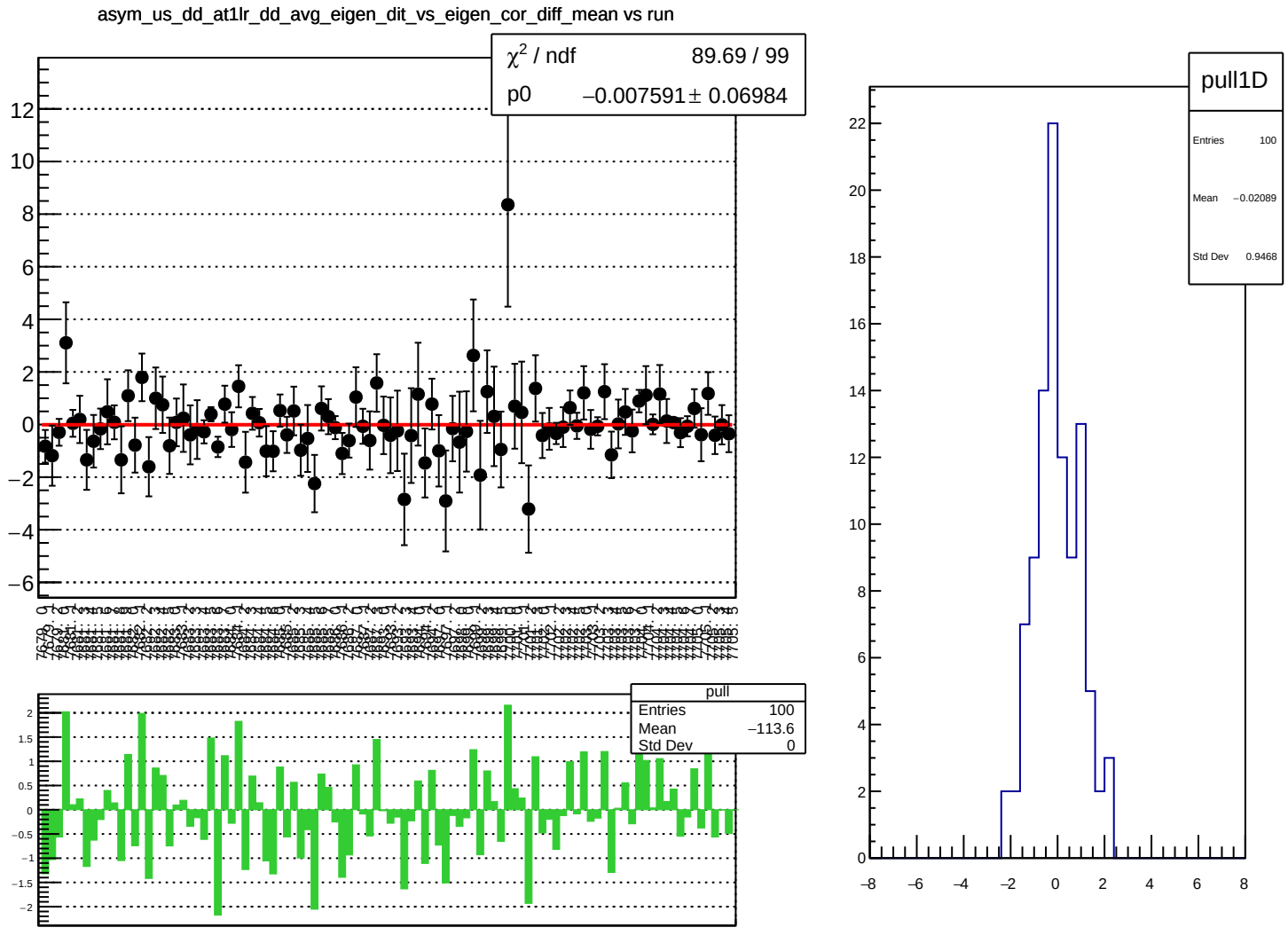

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.49 / 99
p0 −1.445e−05 ± 4.781e−06
pull
Entries 100
Mean −157.4
Std Dev 0
pull1D
Entries 100
Mean −0.004509
Std Dev 0.9823

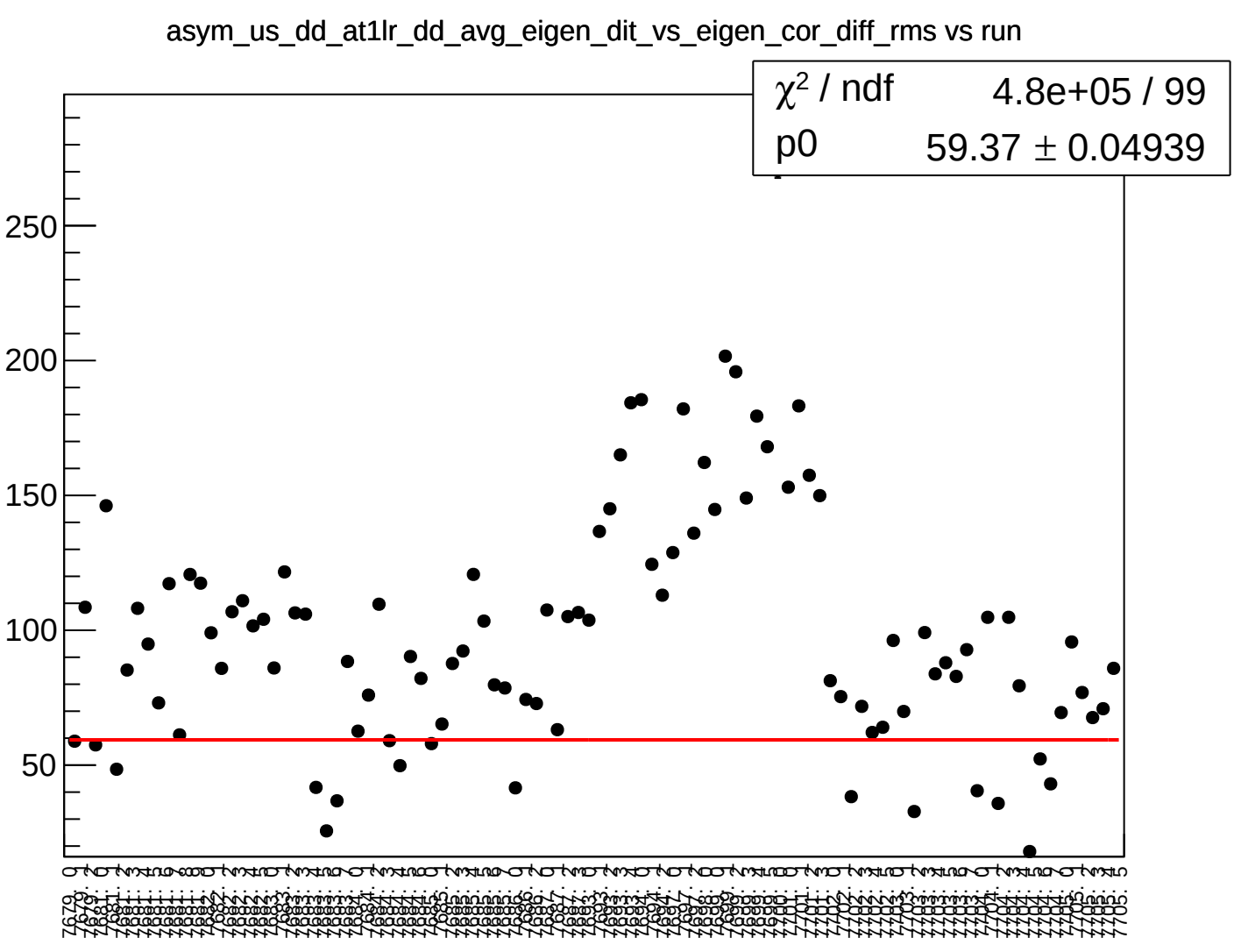

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.423e+05 / 99
p0 0.003829 ± 3.381e−06
0.012
0.01
0.008
0.006
0.004
0.002

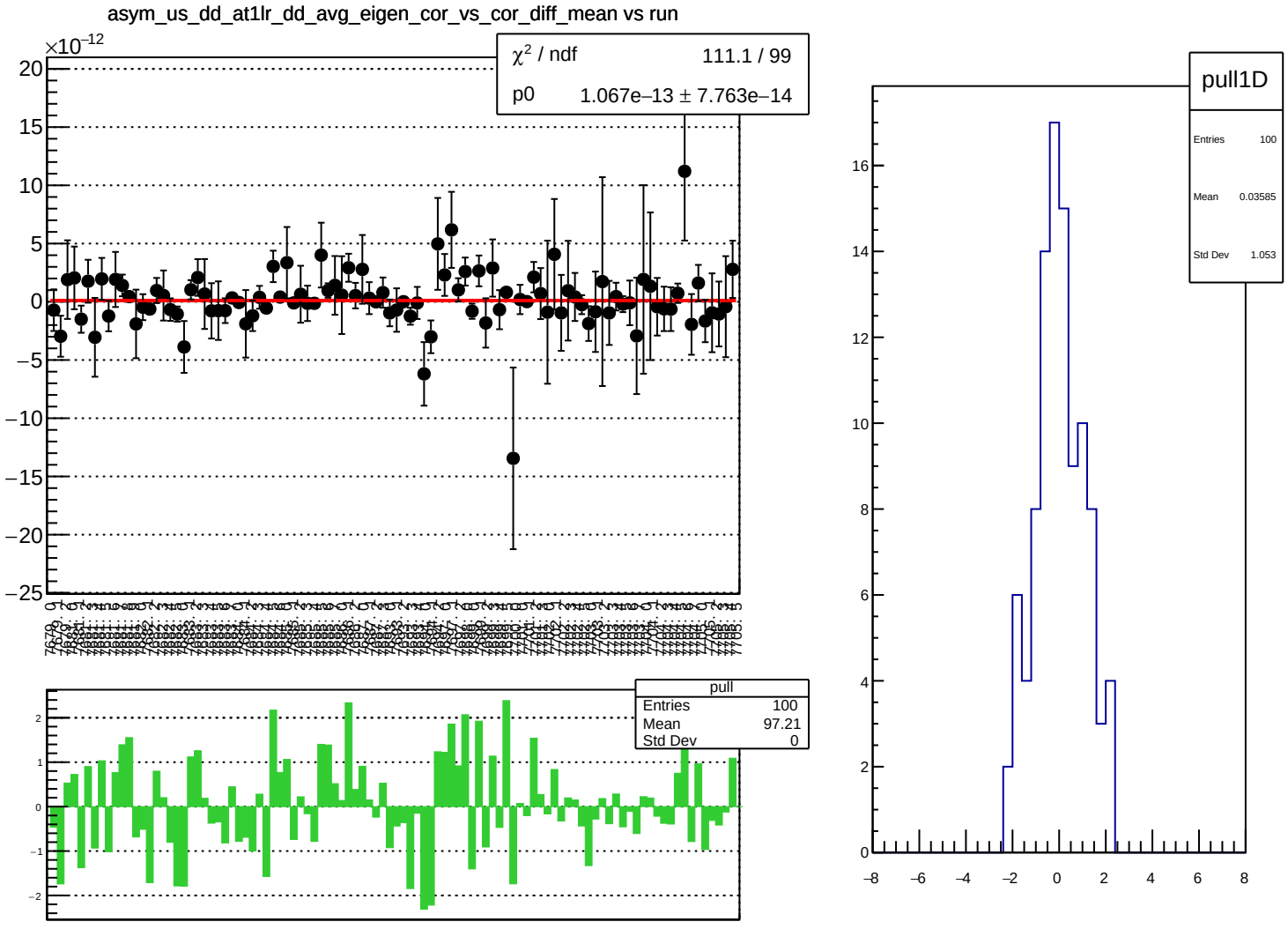

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.69 / 99
p0 −0.007591 ± 0.06984
pull
Entries 100
Mean −113.6
Std Dev 0

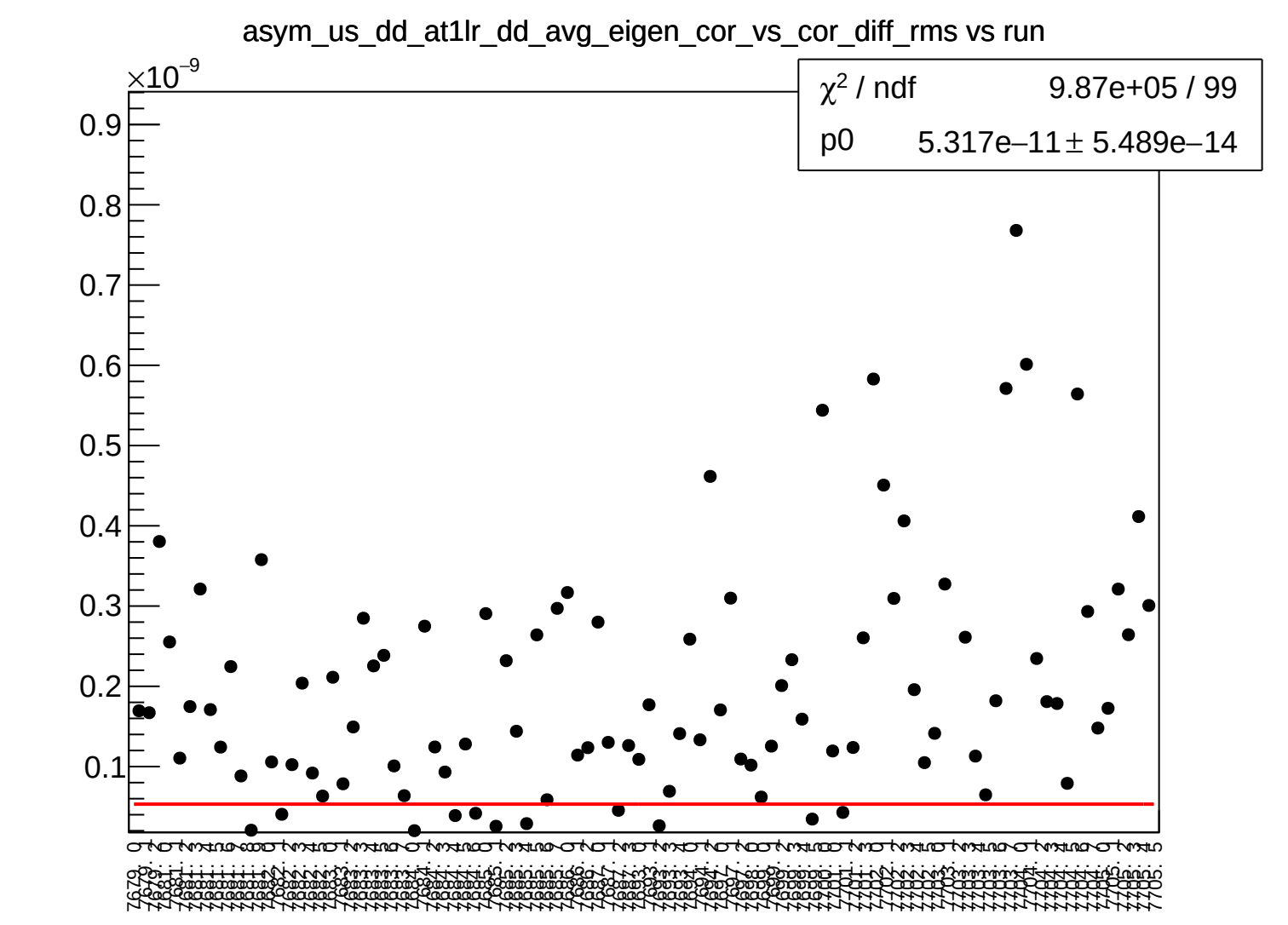

pull1D
Entries 100
Mean −0.02089
Std Dev 0.9468

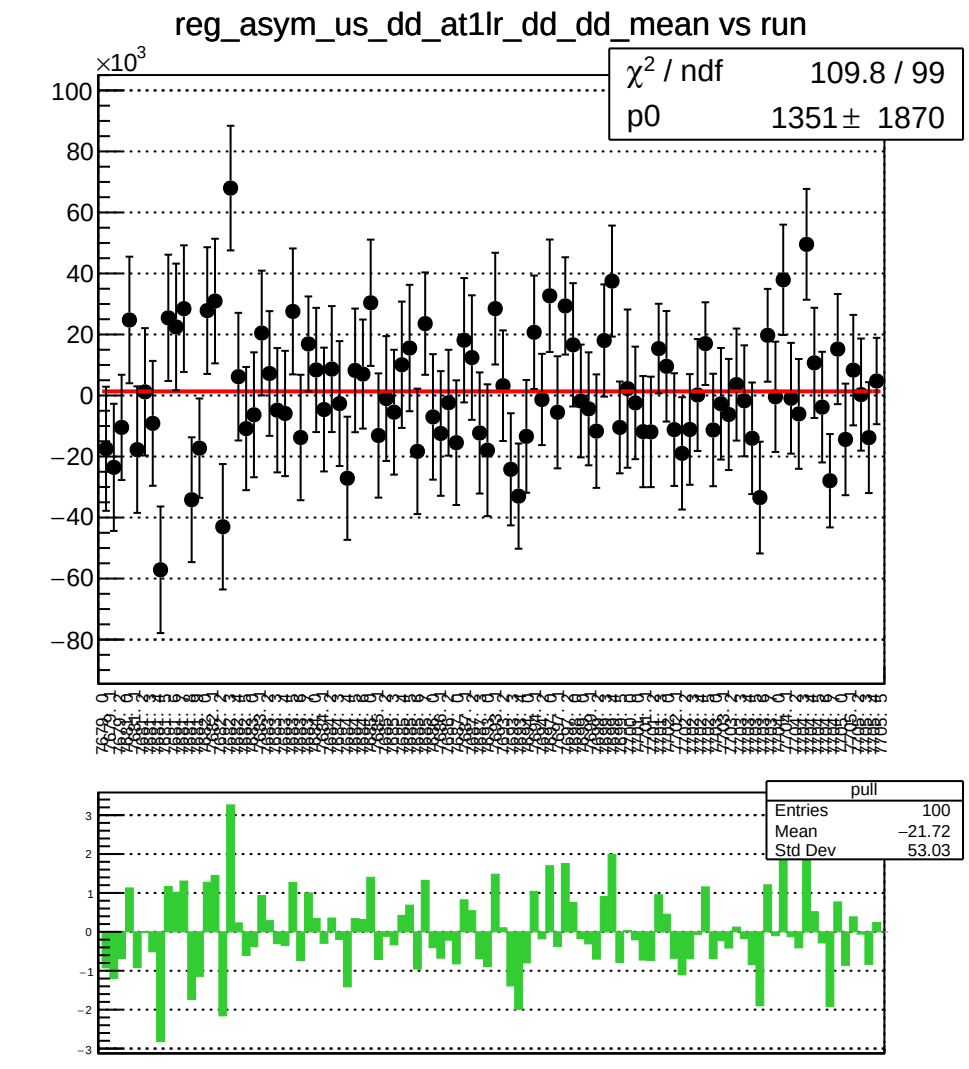

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.8e+05 / 99
p0 59.37 ± 0.04939
250
200
150
100
50

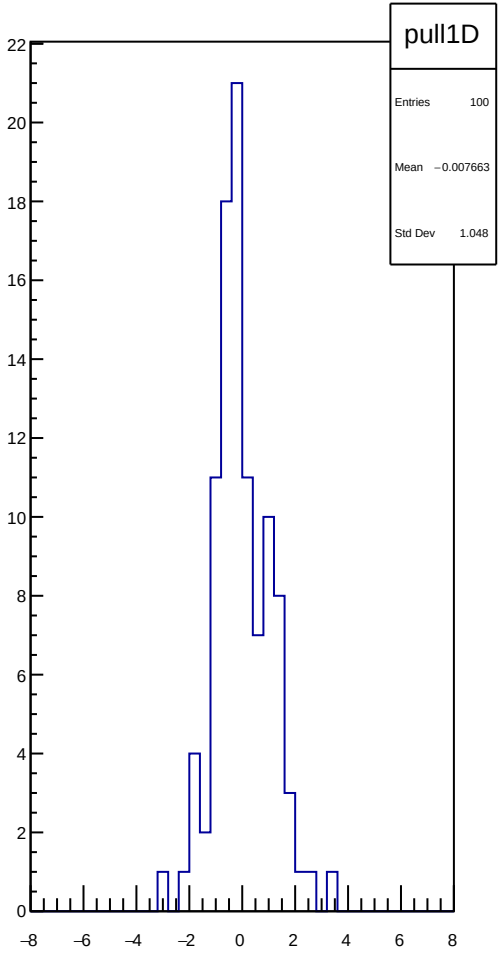

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.69 / 99
p0 −0.007591 ± 0.06984
pull
Entries 100
Mean −113.6
Std Dev 0
pull1D
Entries 100
Mean −0.02089
Std Dev 0.9468

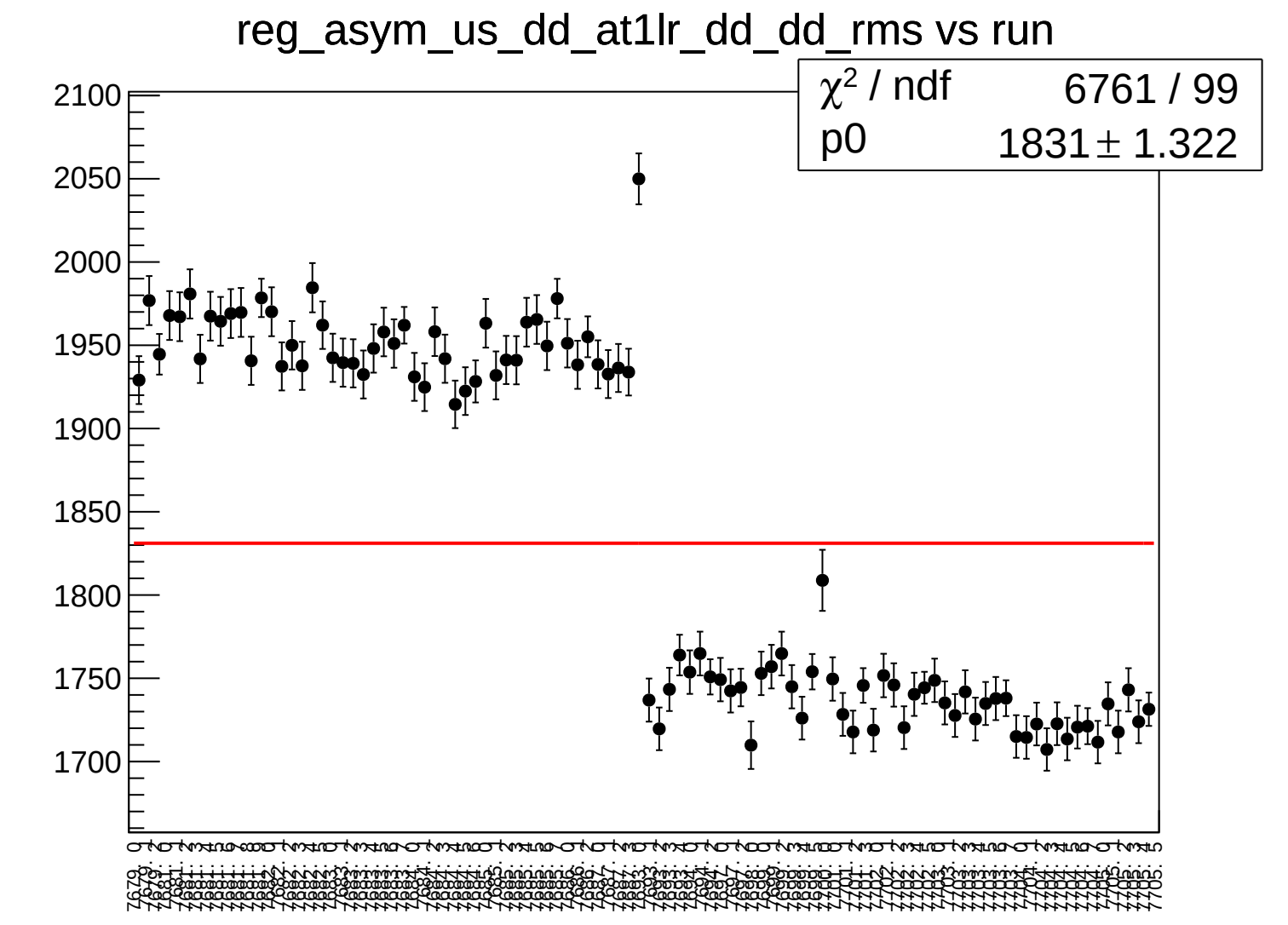

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.8e+05 / 99
p0 59.37 ± 0.04939
250
200
150
100
50

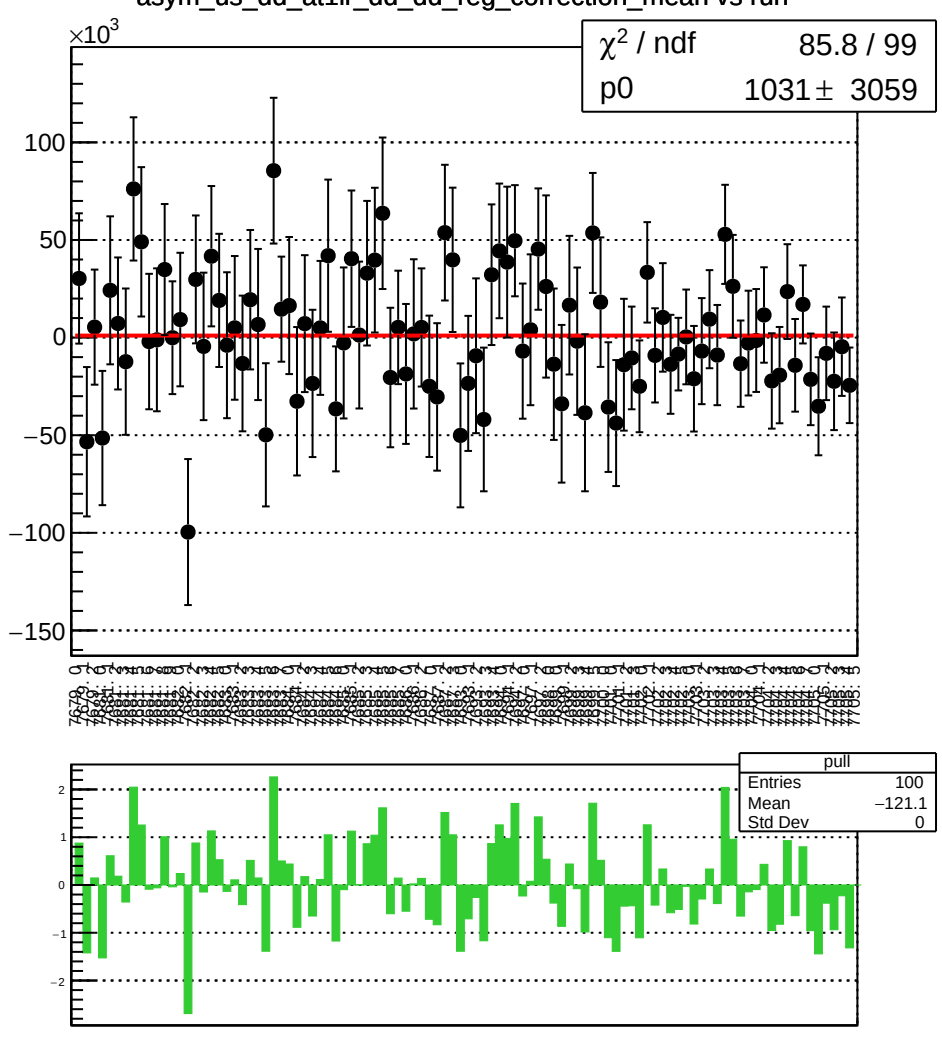

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 111.1 / 99
p0 1.067e−13 ± 7.763e−14
pull
Entries 100
Mean 97.21
Std Dev 0
pull1D
Entries 100
Mean 0.03585
Std Dev 1.053

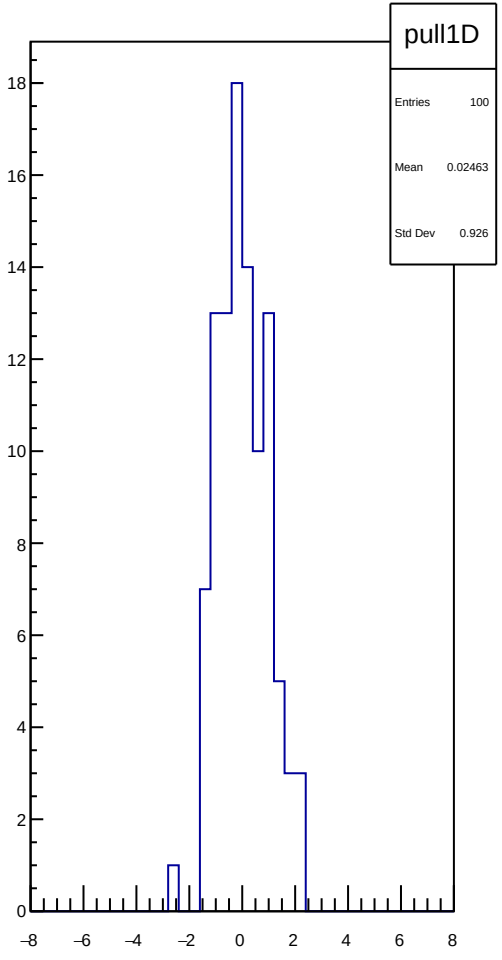

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.87e+05 / 99
p0 5.317e−11 ± 5.489e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

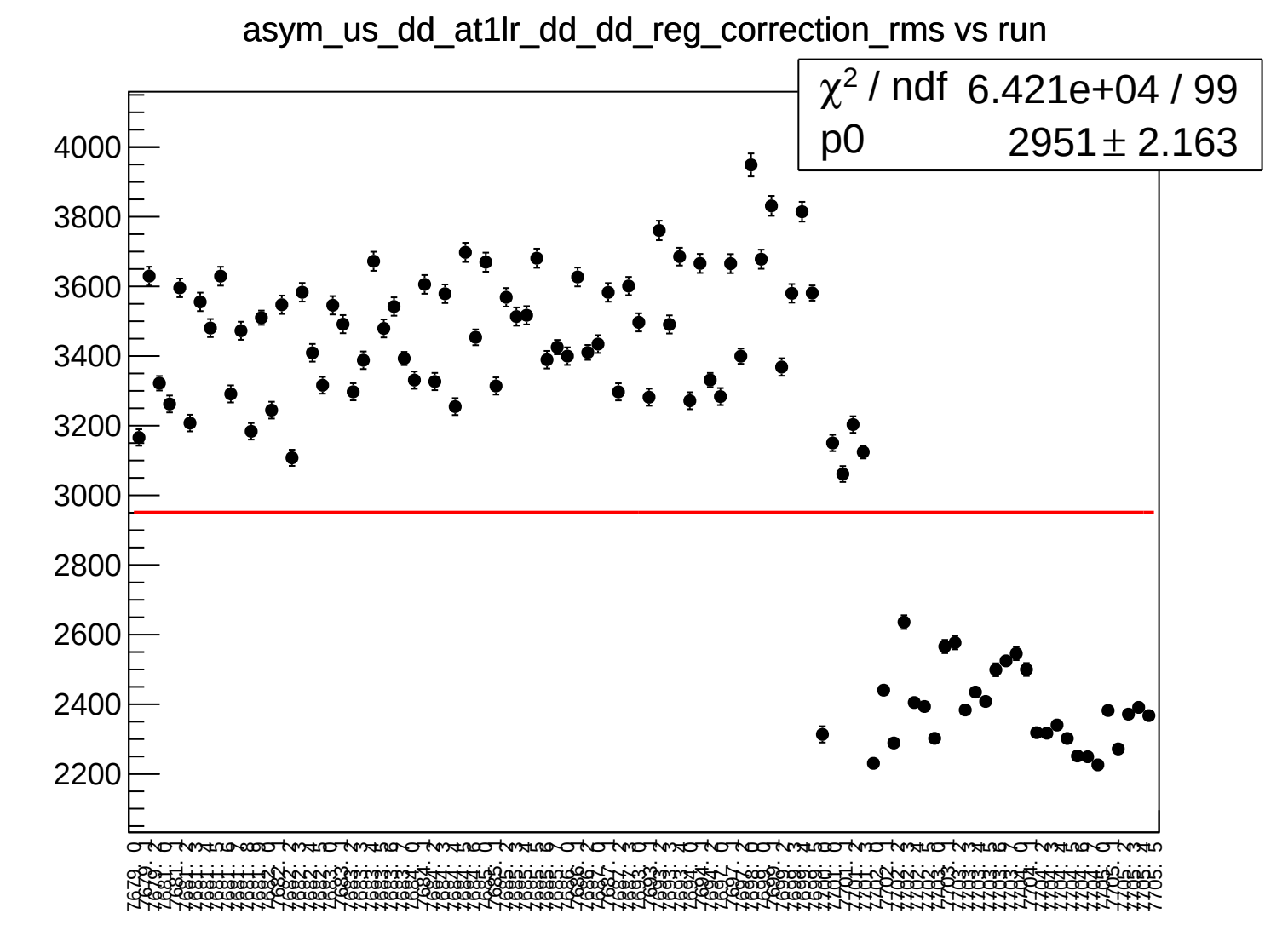

reg_asym_us_dd_at1lr_dd_dd_mean vs run
×10^3
χ^2 / ndf 109.8 / 99
p0 1351 ± 1870
pull
Entries 100
Mean −21.72
Std Dev 53.03

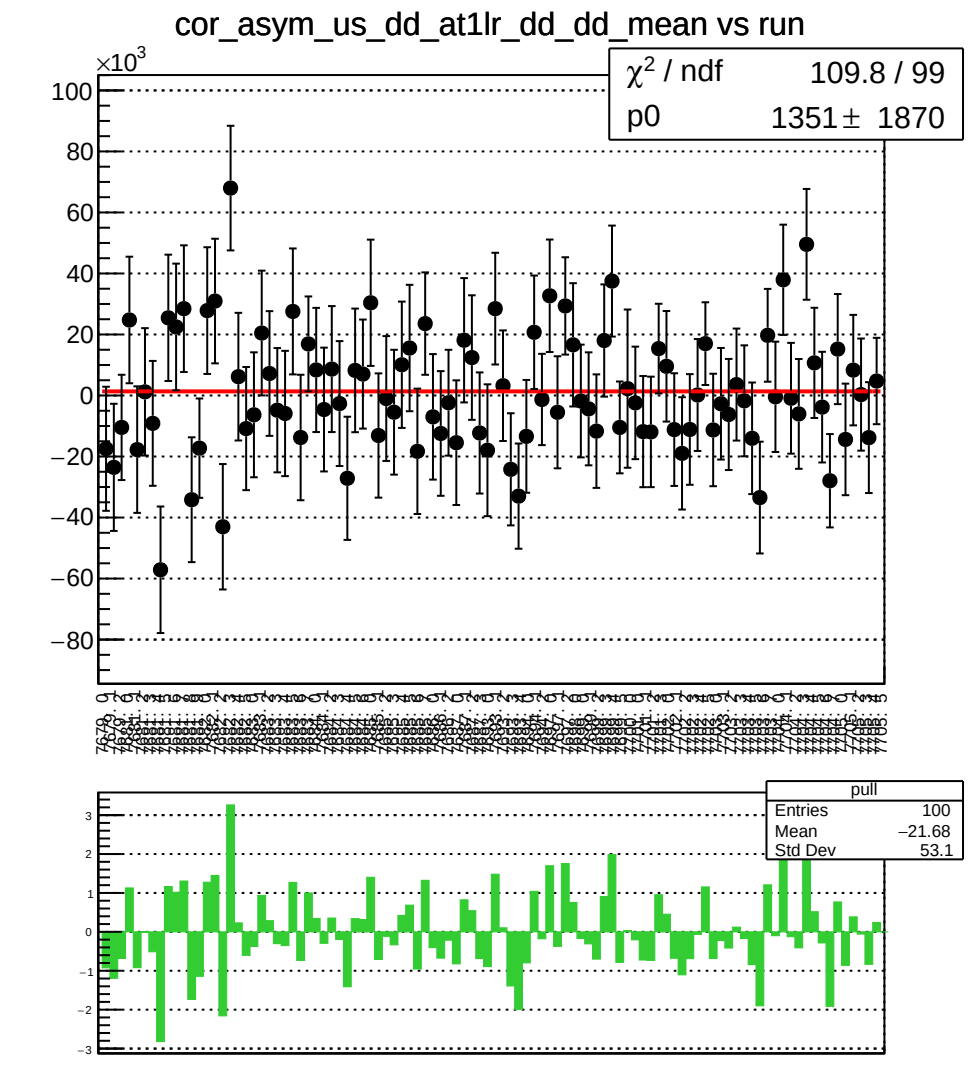

pull1D
Entries 100
Mean −0.007663
Std Dev 1.048

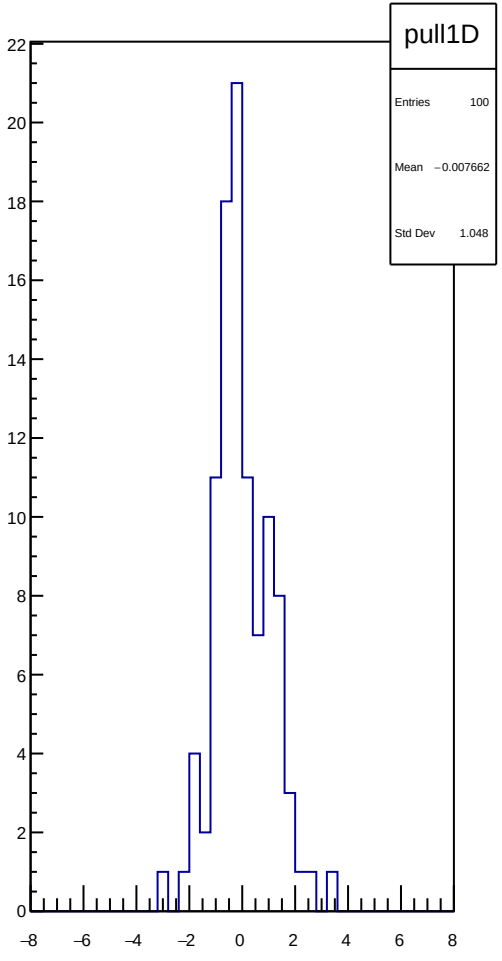

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 6761 / 99
p0 1831 ± 1.322
2100
2050
2000
1950
1900
1850
1800
1750
1700

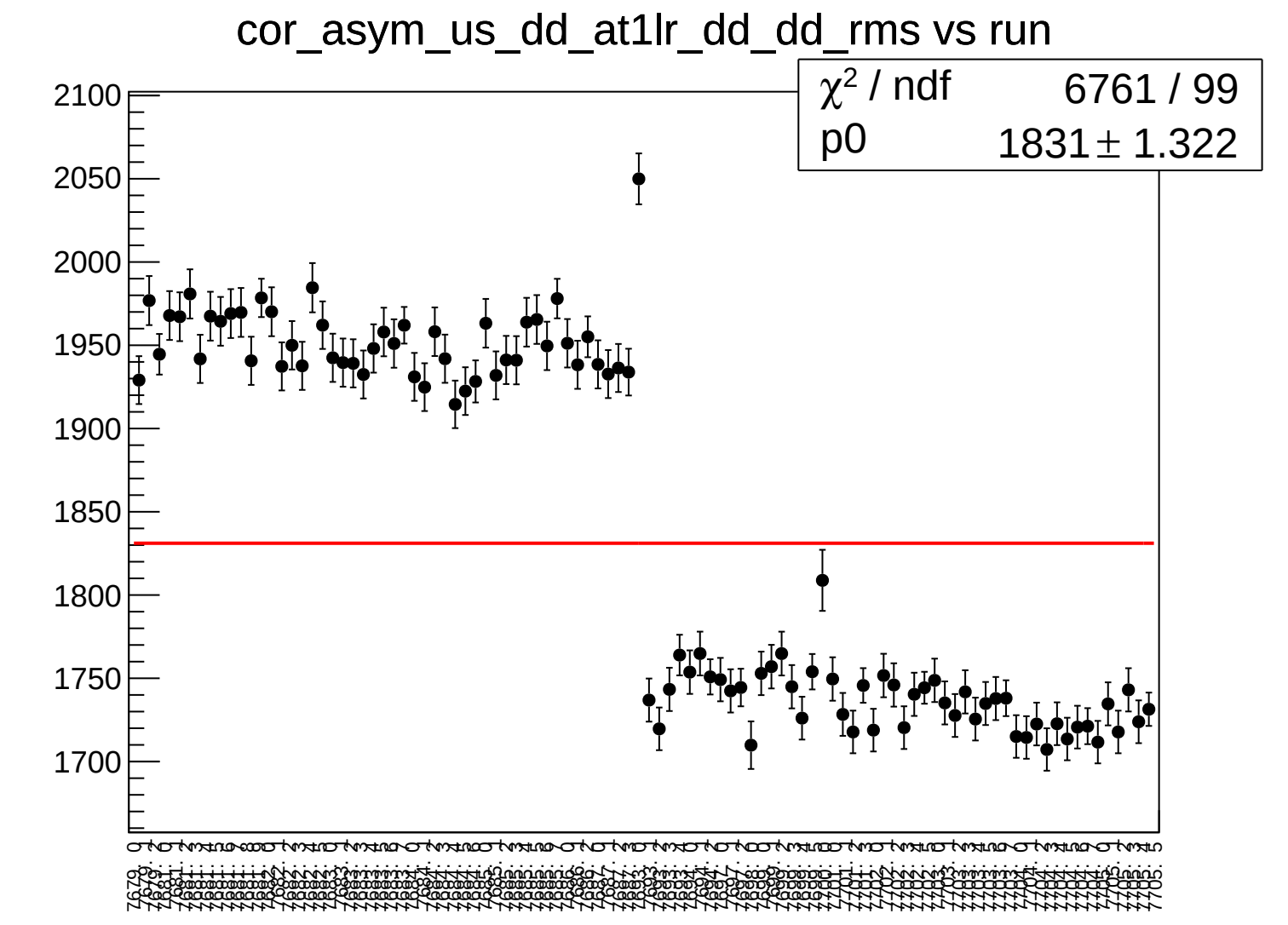

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 85.8 / 99
p0 1031 ± 3059
100
50
0
−50
−100
−150
pull
Entries 100
Mean −121.1
Std Dev 0
2
1
0
−1
−2

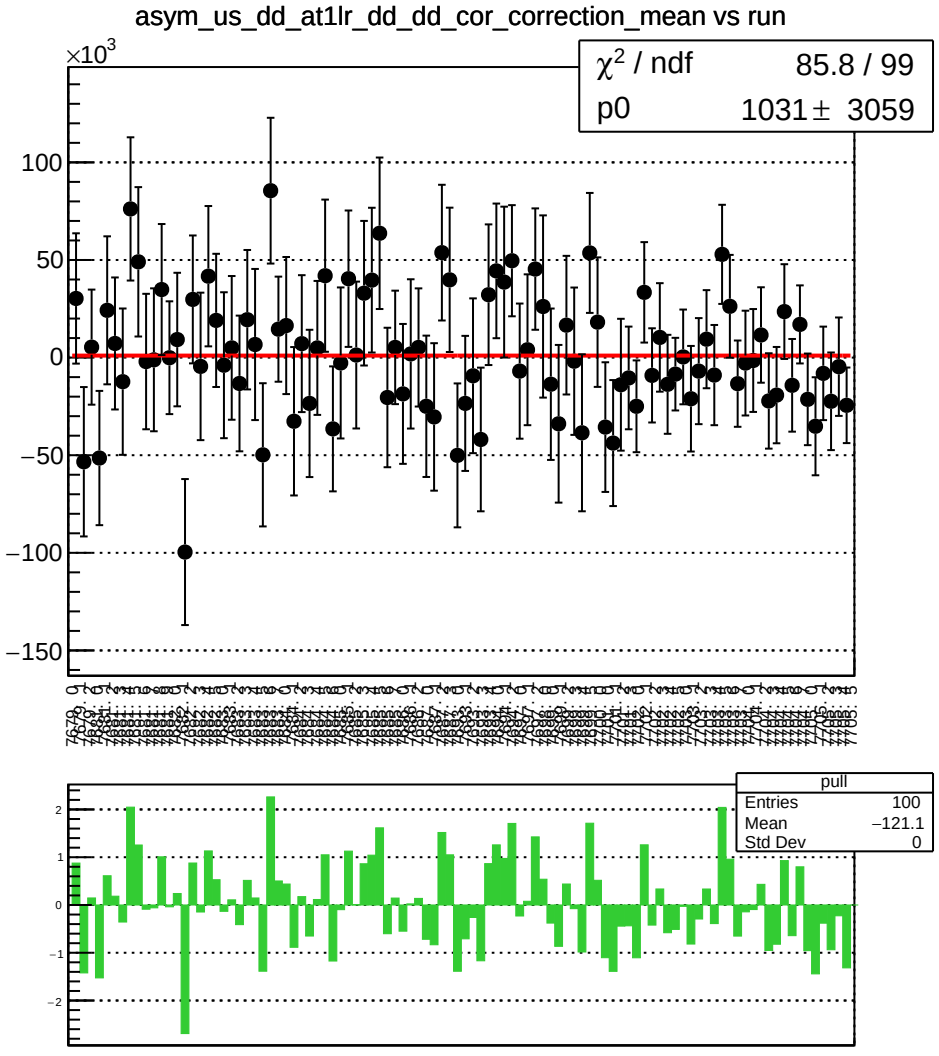

pull1D
Entries 100
Mean 0.02463
Std Dev 0.926
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

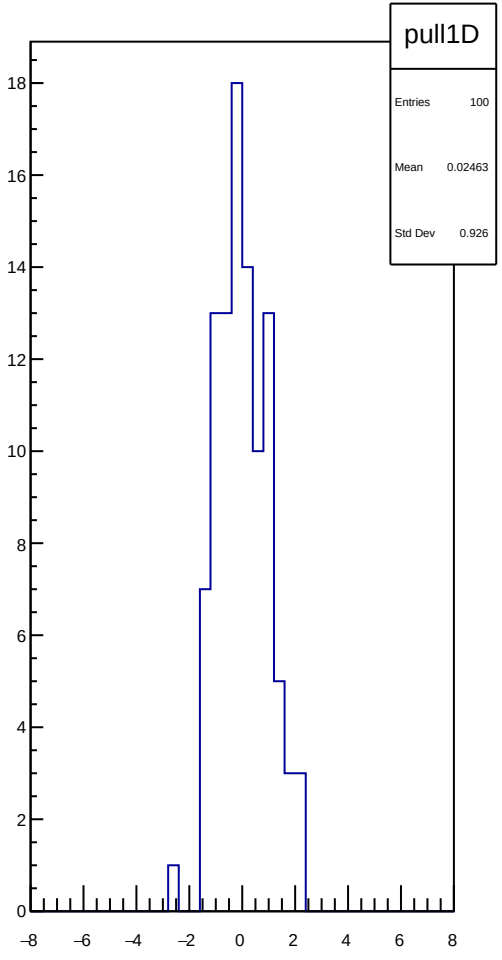

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 6.421e+04 / 99
p0 2951 ± 2.163
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

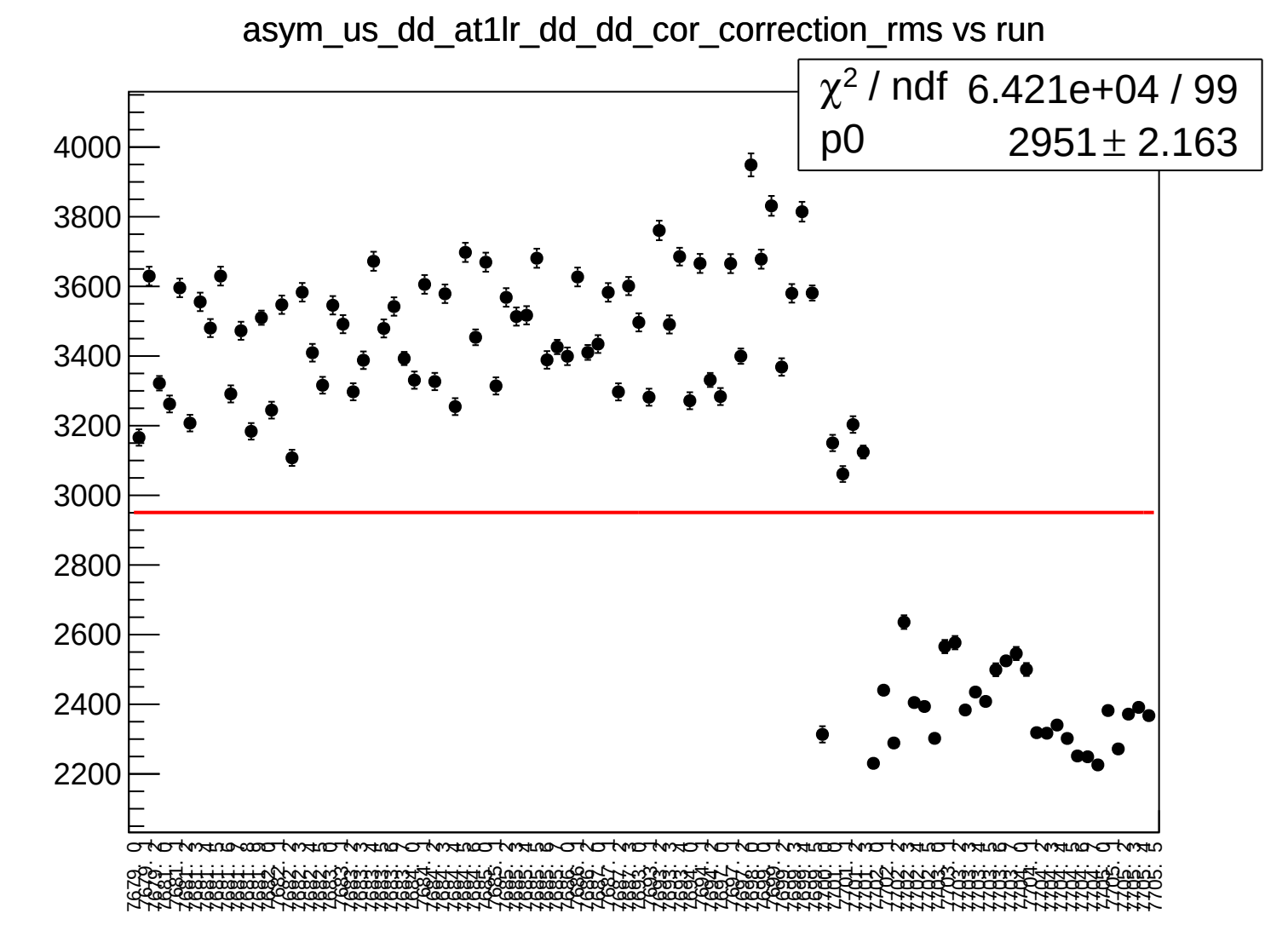

cor_asym_us_dd_at1lr_dd_dd_mean vs run
×10^3
χ^2 / ndf 109.8 / 99
p0 1351 ± 1870
pull
Entries 100
Mean −21.68
Std Dev 53.1

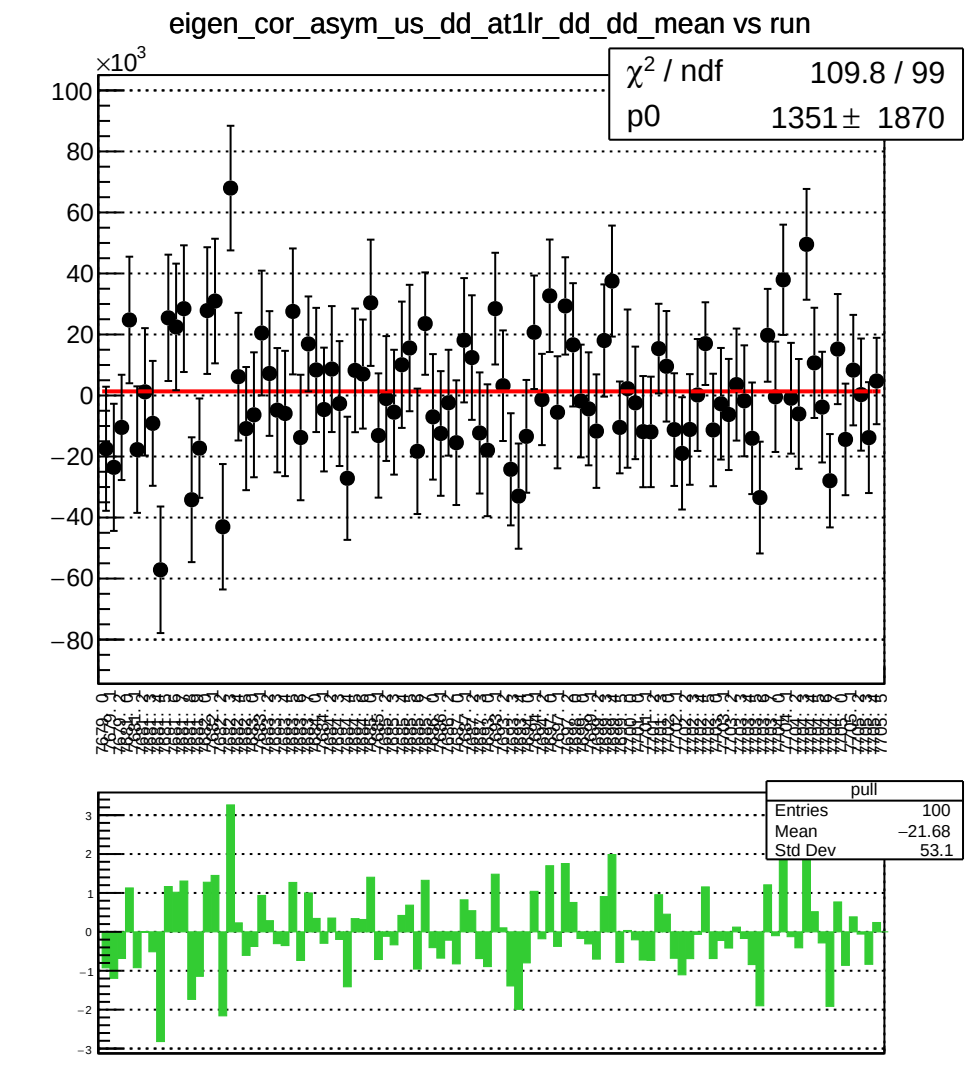

pull1D
Entries 100
Mean −0.007662
Std Dev 1.048

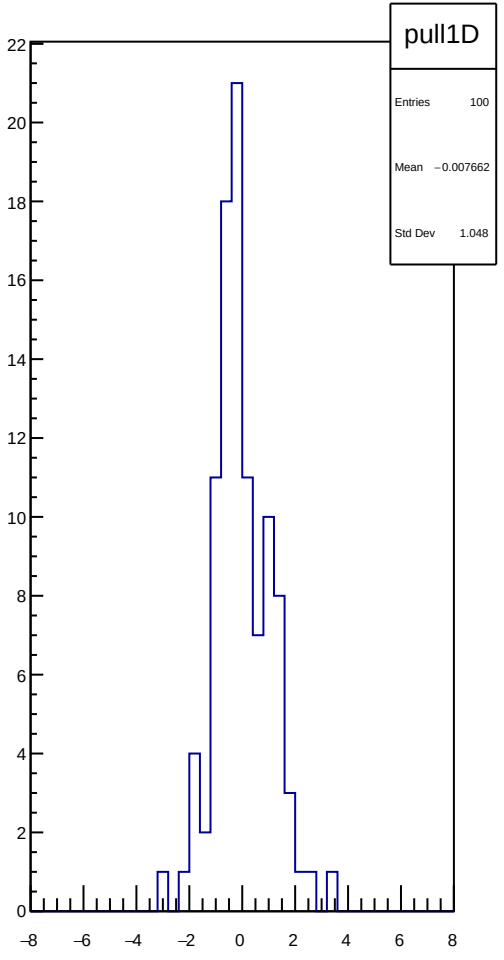

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 6761 / 99
p0 1831 ± 1.322
2100
2050
2000
1950
1900
1850
1800
1750
1700

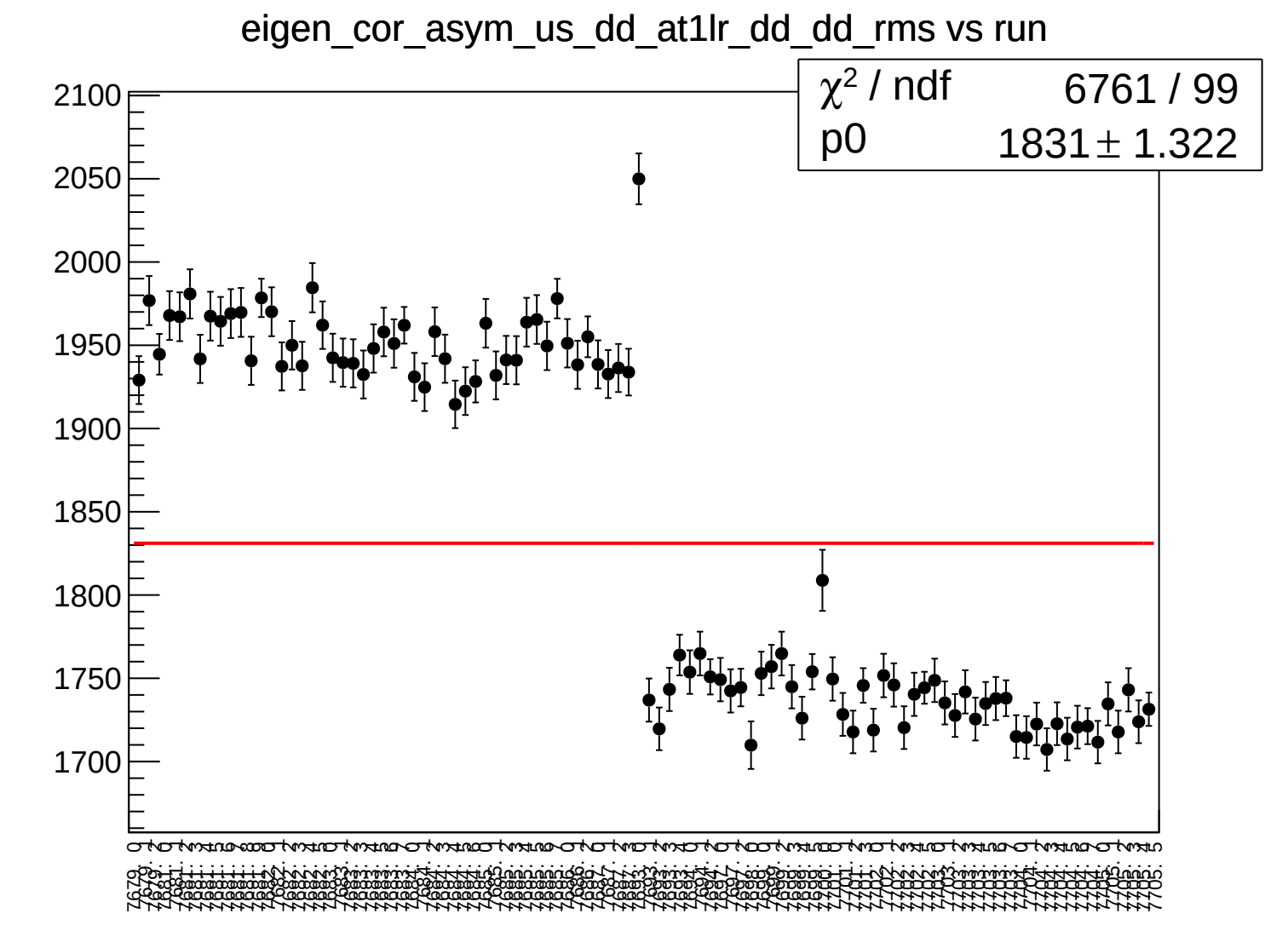

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 85.8 / 99
p0 1031 ± 3059
100
50
0
−50
−100
−150
pull
Entries 100
Mean −121.1
Std Dev 0
2
1
0
−1
−2

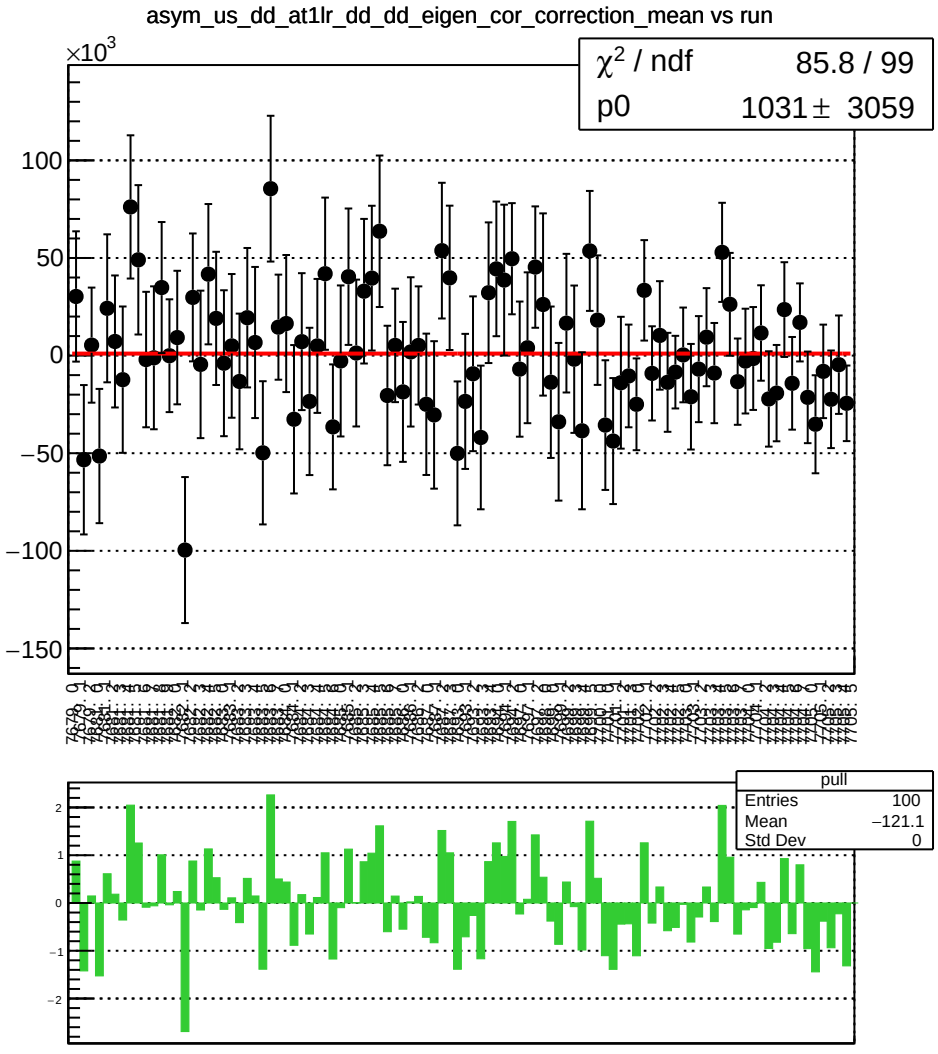

pull1D
Entries 100
Mean 0.02463
Std Dev 0.926
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

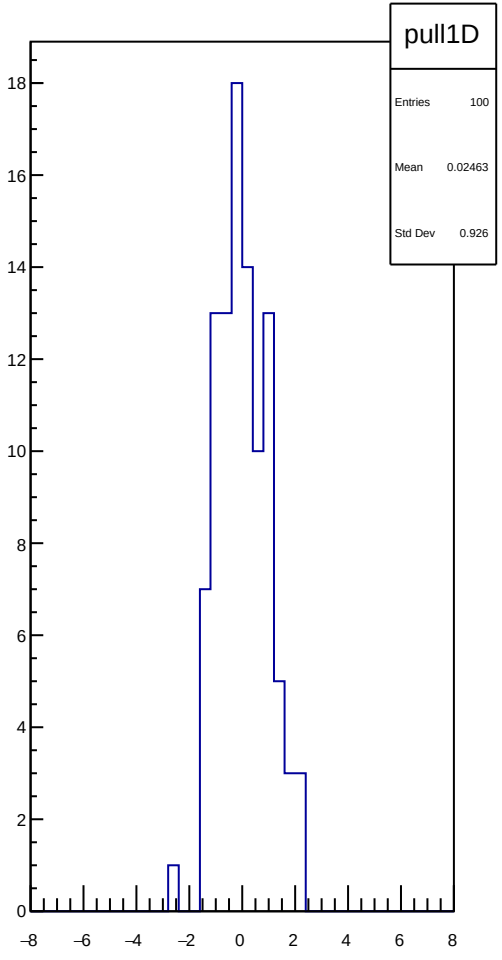

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 6.421e+04 / 99
p0 2951 ± 2.163
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200


eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
×10^3
χ² / ndf 109.8 / 99
p0 1351 ± 1870
pull
Entries 100
Mean −21.68
Std Dev 53.1


pull1D
Entries 100
Mean −0.007662
Std Dev 1.048


eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 6761 / 99
p0 1831 ± 1.322
2100
2050
2000
1950
1900
1850
1800
1750
1700


asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 85.8 / 99
p0 1031 ± 3059
100
50
0
−50
−100
−150
pull
Entries 100
Mean −121.1
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 100
Mean 0.02463
Std Dev 0.926
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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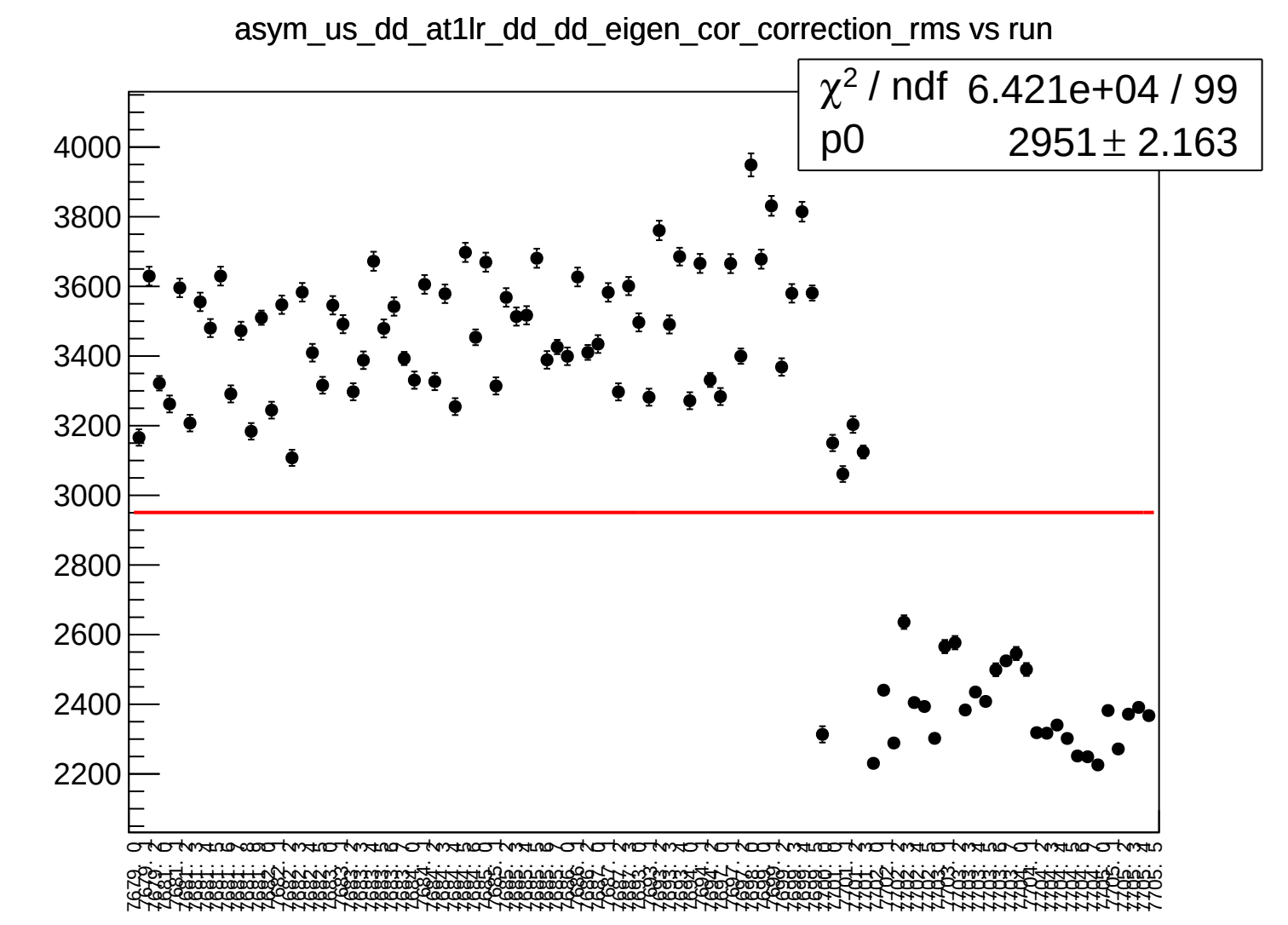
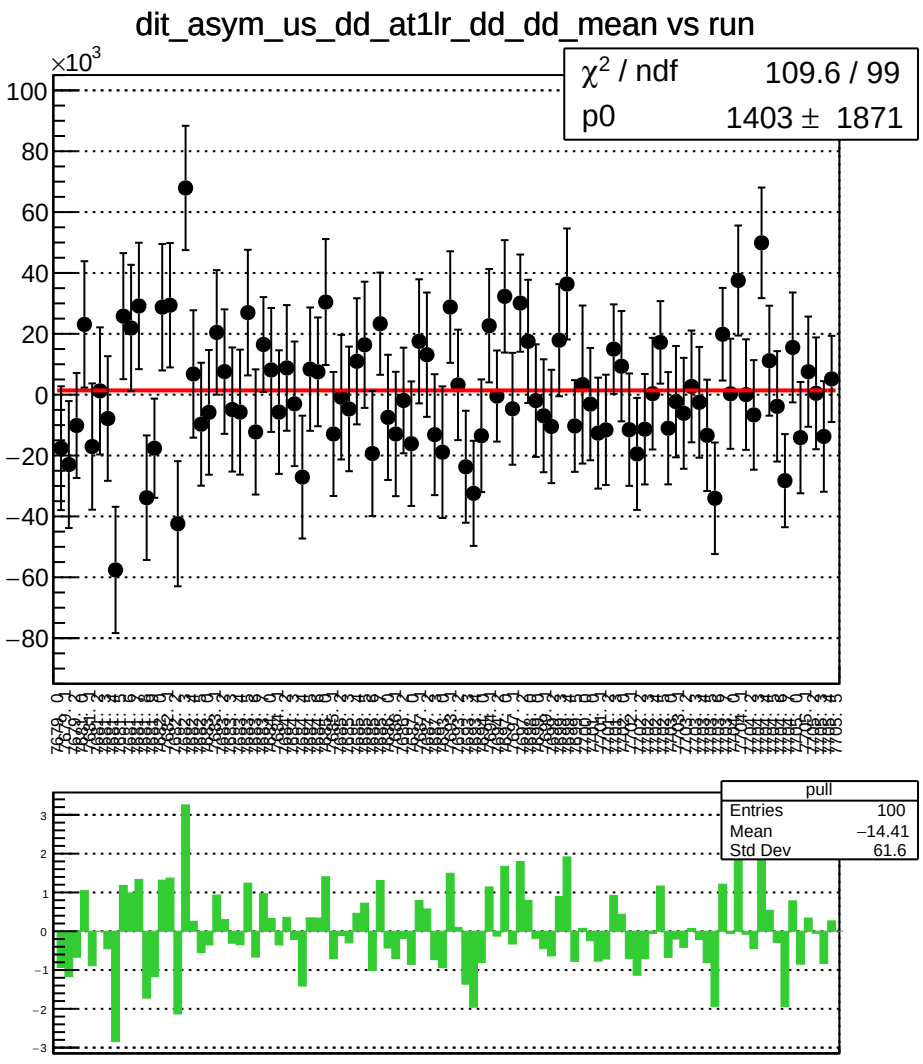
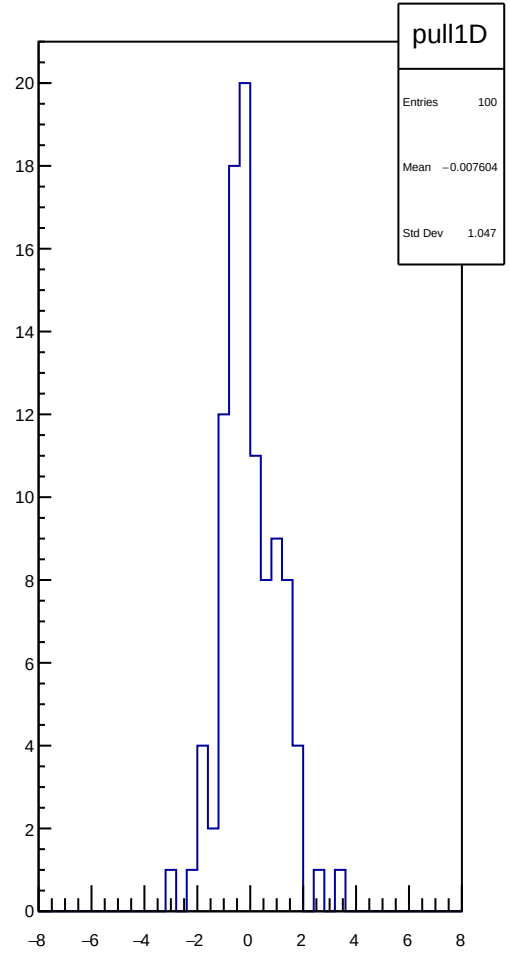
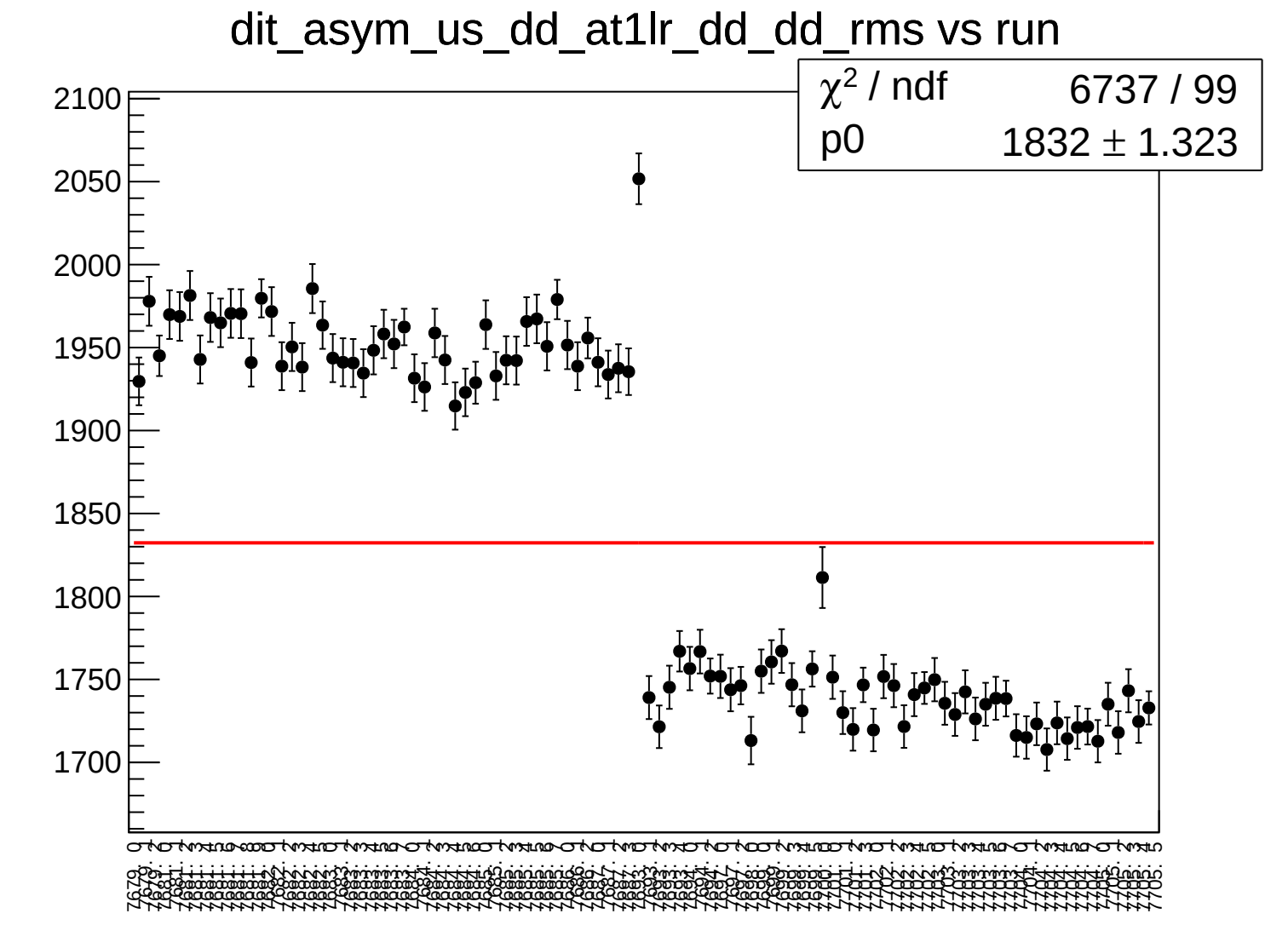
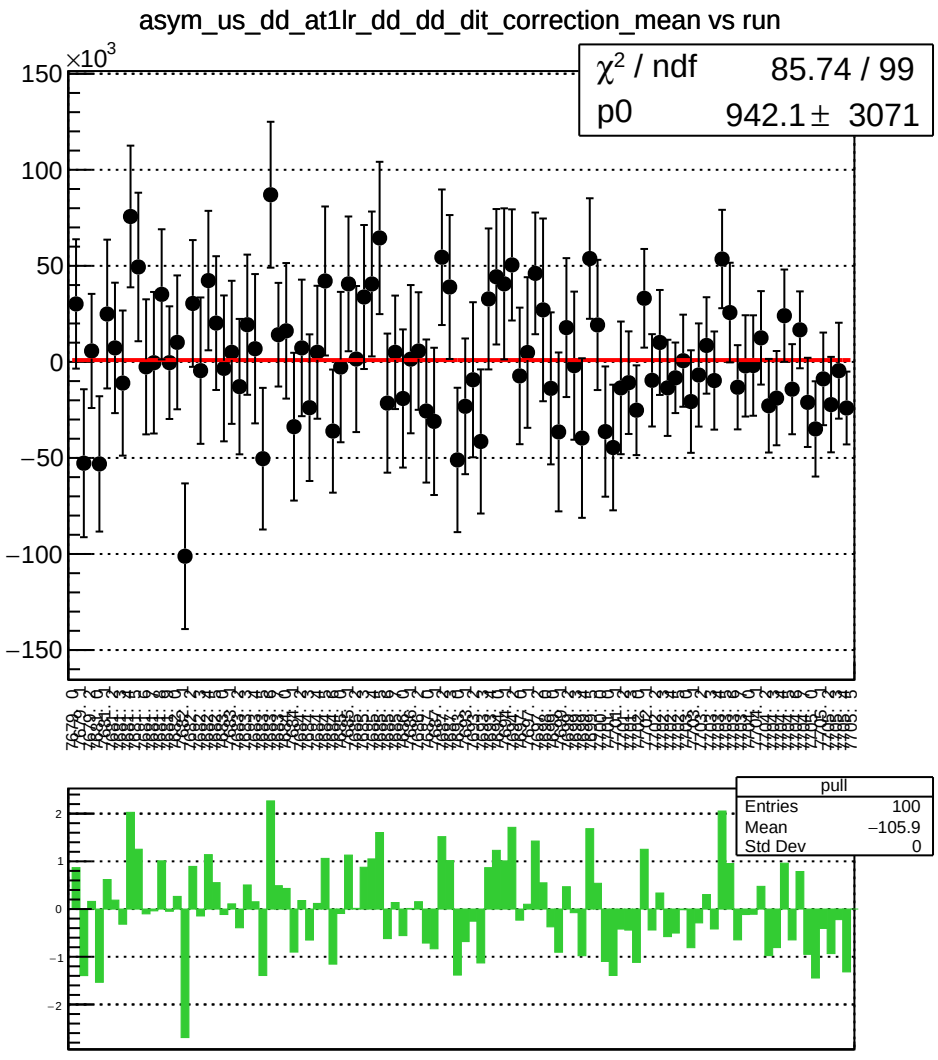
0
2
4
6
8

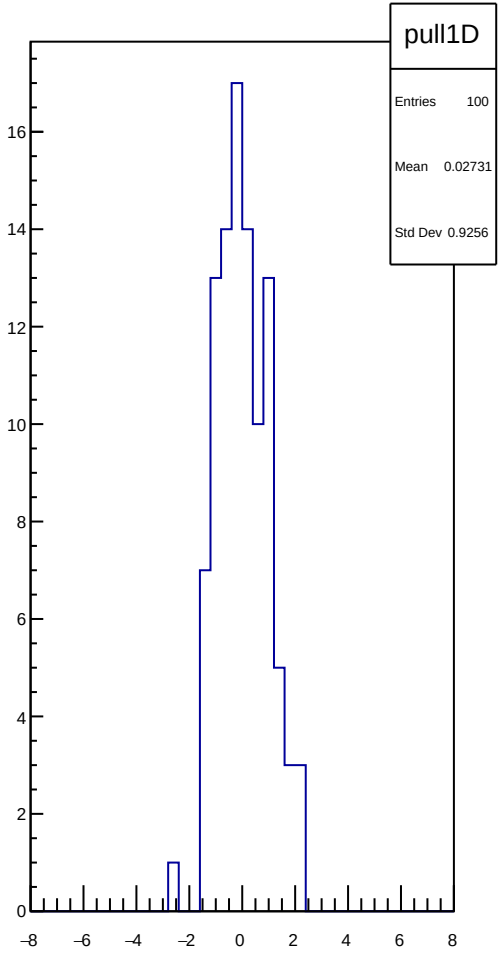

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 6.421e+04 / 99
p0 2951 ± 2.163
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

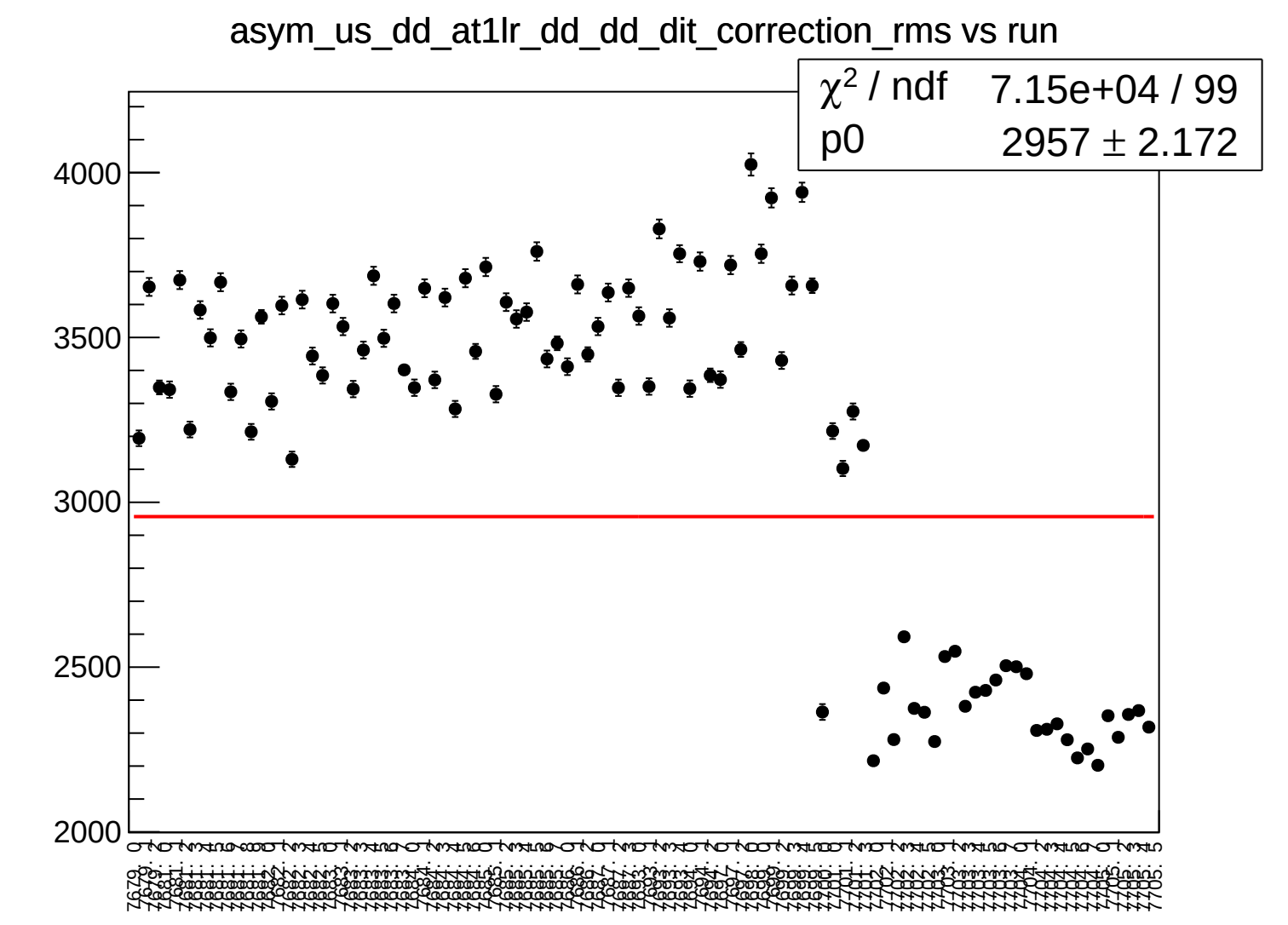

dit_asym_us_dd_at1lr_dd_dd_mean vs run
×10^3
χ^2 / ndf 109.6 / 99
p0 1403 ± 1871
pull
Entries 100
Mean −14.41
Std Dev 61.6

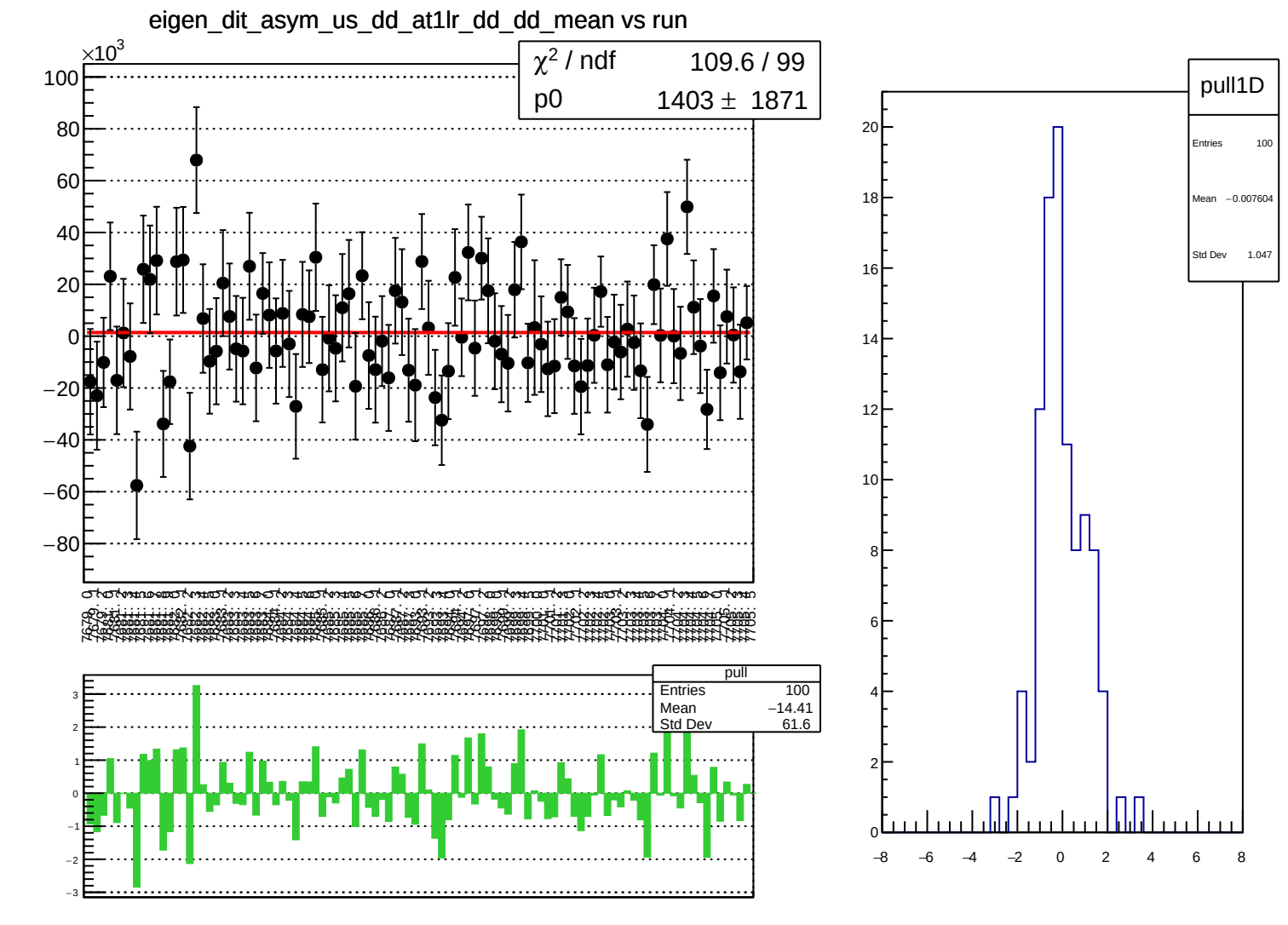

pull1D
Entries 100
Mean −0.007604
Std Dev 1.047

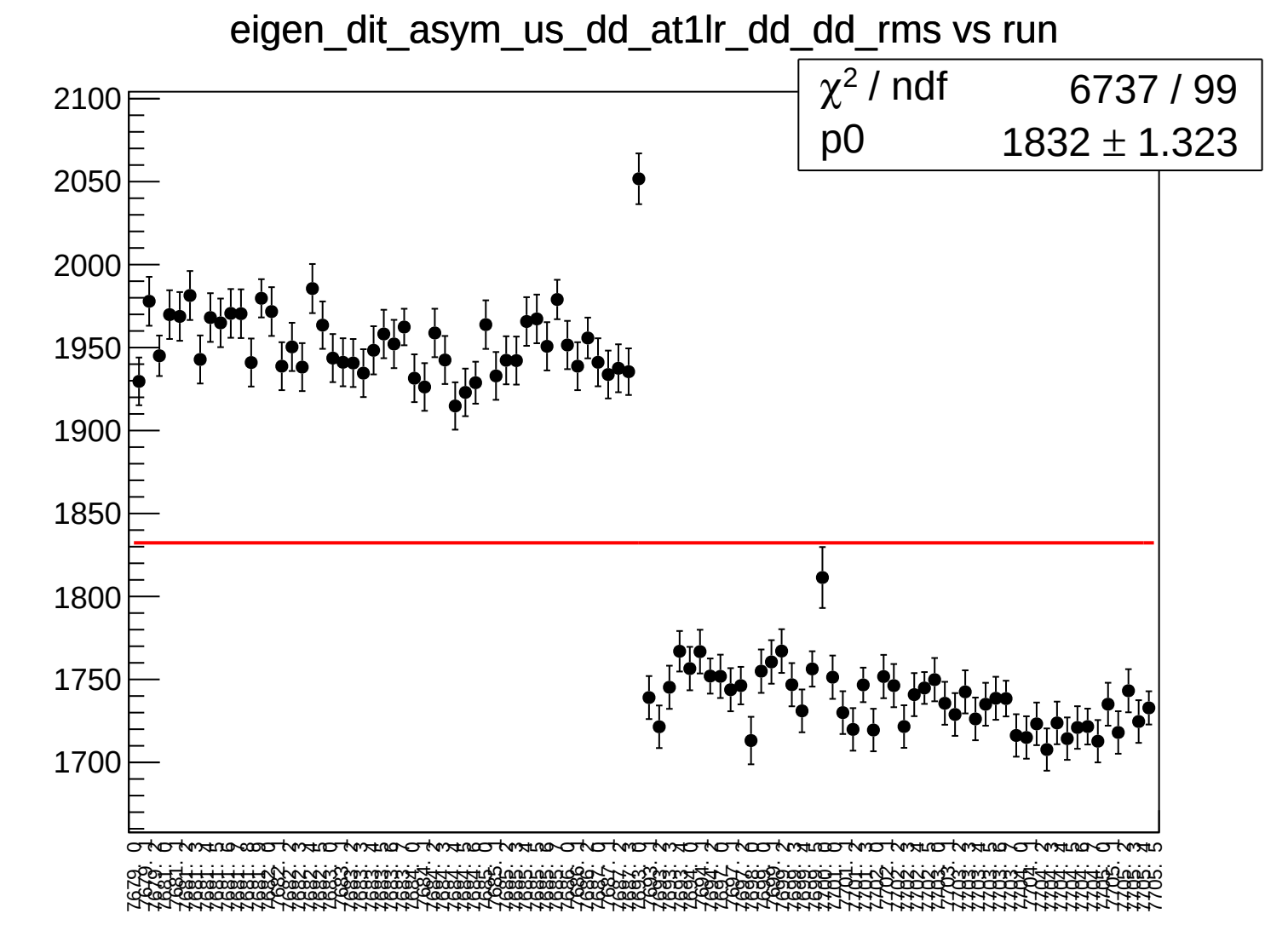

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 6737 / 99
p0 1832 ± 1.323
2100
2050
2000
1950
1900
1850
1800
1750
1700

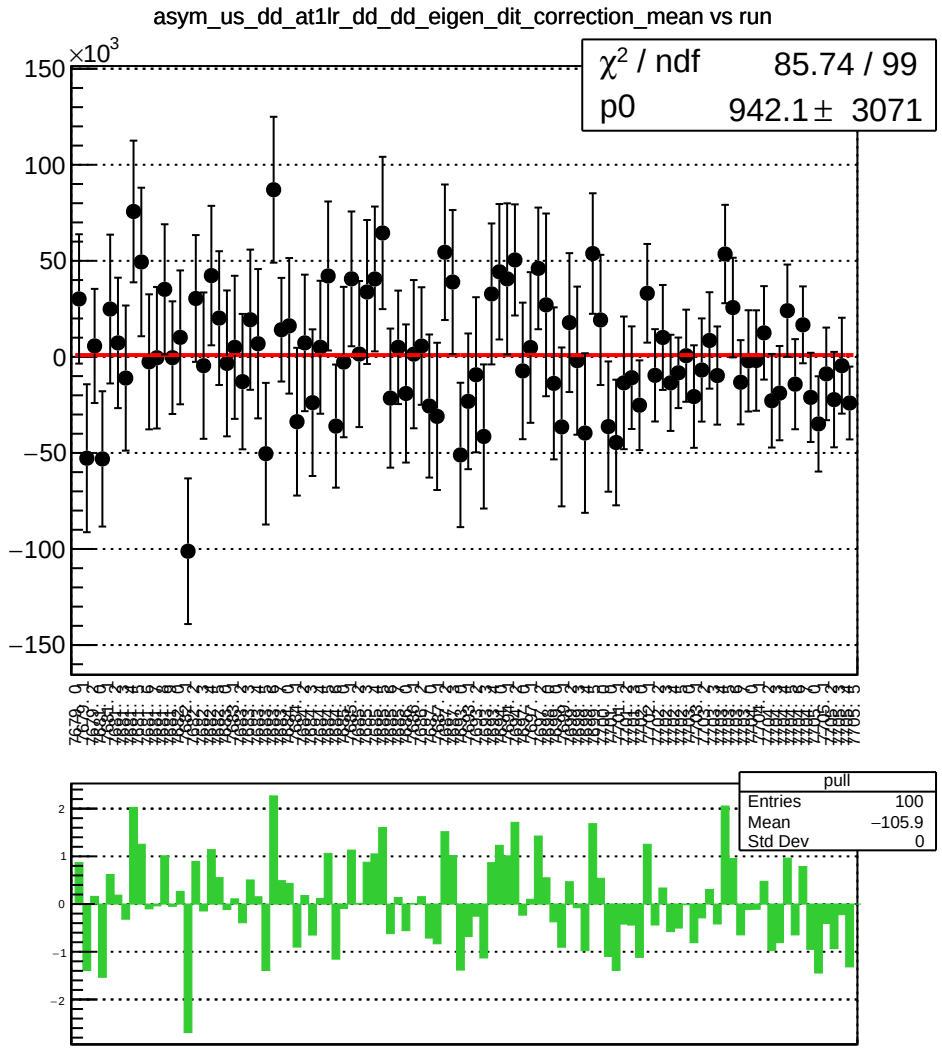

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 85.74 / 99
p0 942.1 ± 3071
pull
Entries 100
Mean −105.9
Std Dev 0

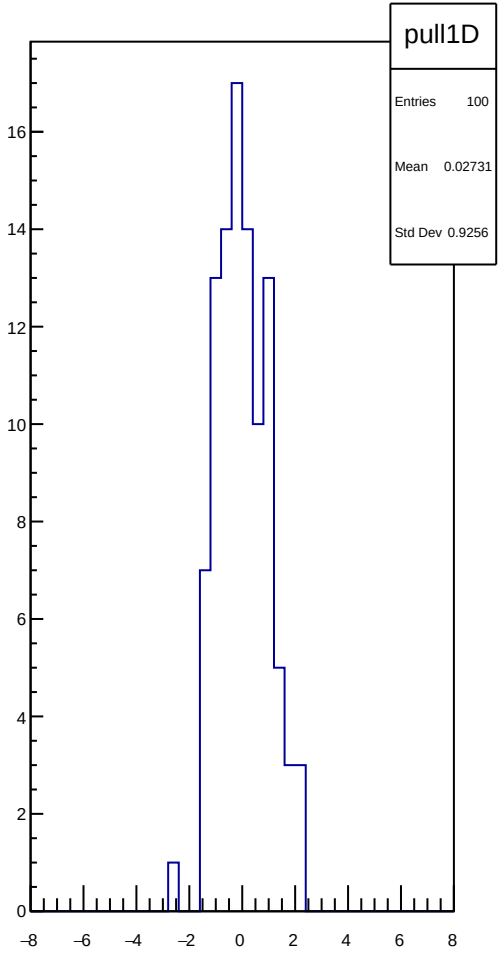

pull1D
Entries 100
Mean 0.02731
Std Dev 0.9256

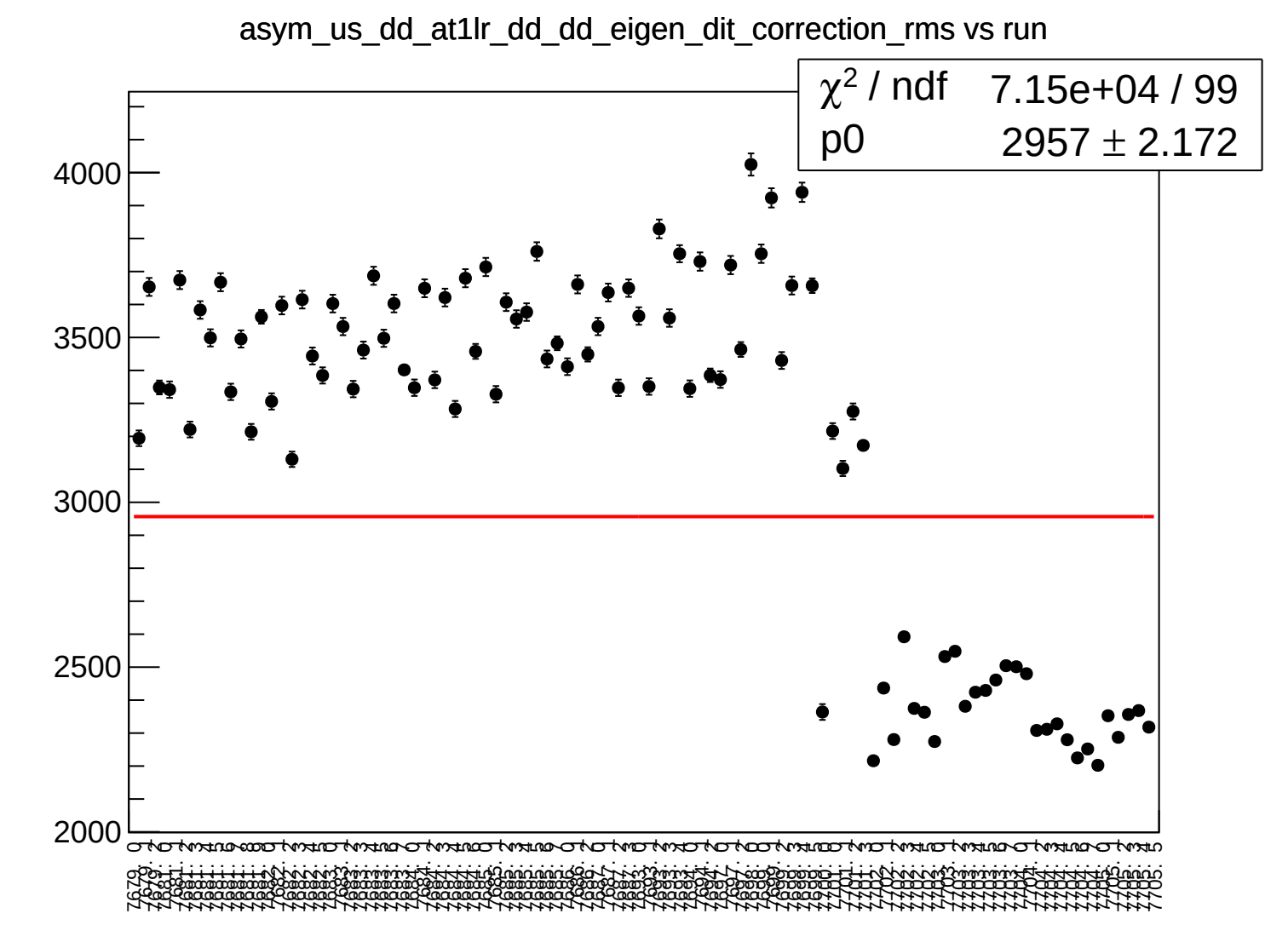

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 7.15e+04 / 99
p0 2957 ± 2.172
4000
3500
3000
2500
2000

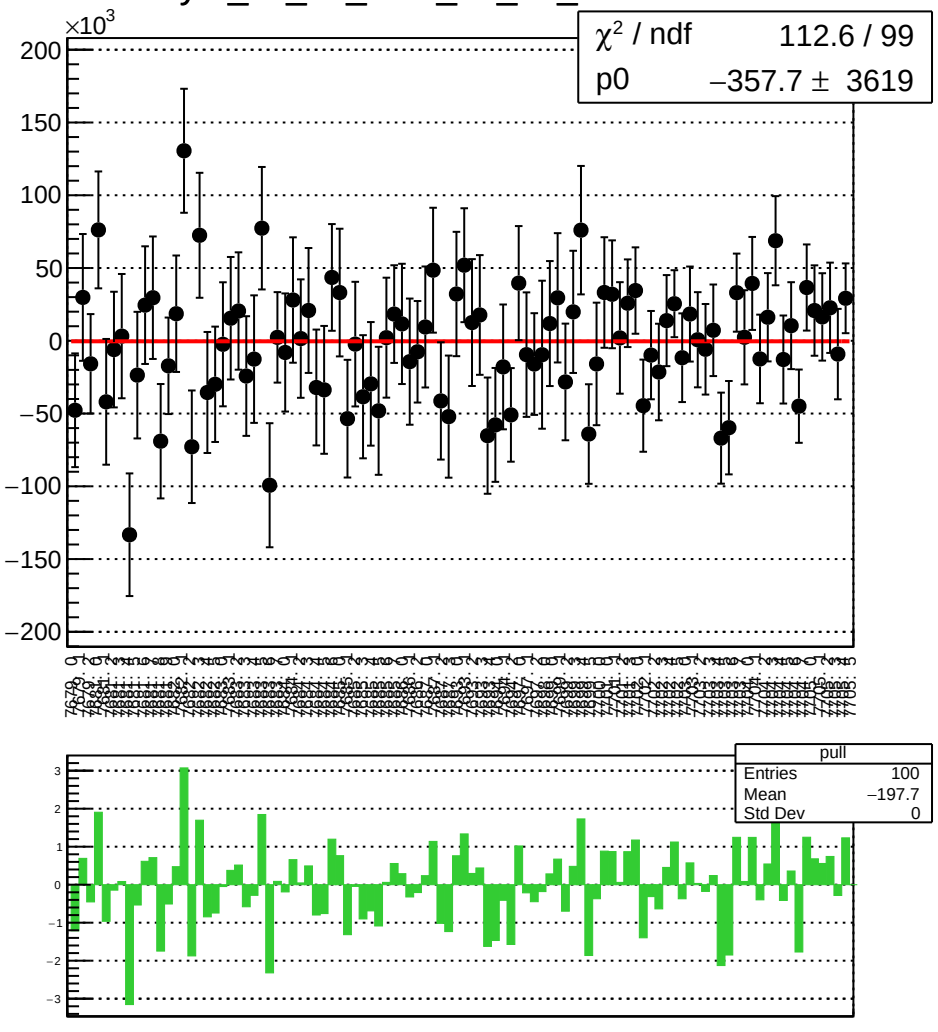

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
×10^3
χ^2 / ndf 109.6 / 99
p0 1403 ± 1871
pull
Entries 100
Mean −14.41
Std Dev 61.6
pull1D
Entries 100
Mean −0.007604
Std Dev 1.047

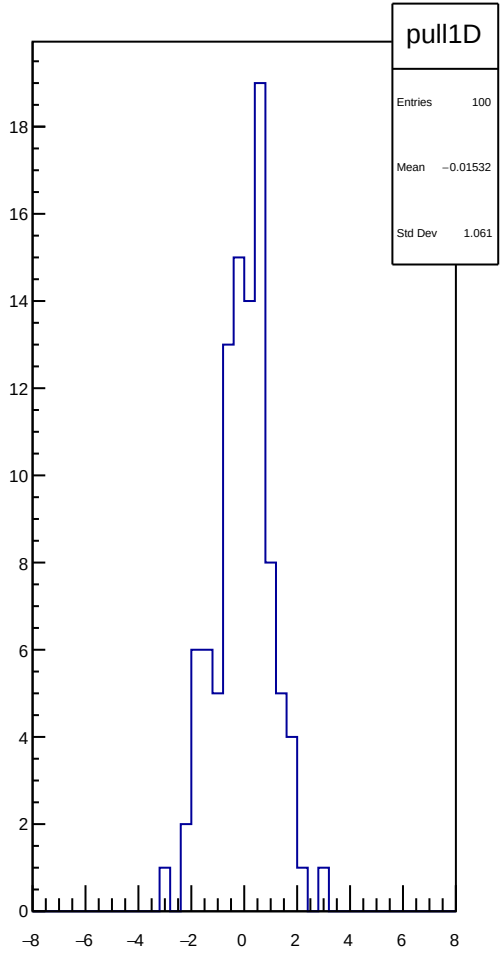

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 6737 / 99
p0 1832 ± 1.323
2100
2050
2000
1950
1900
1850
1800
1750
1700

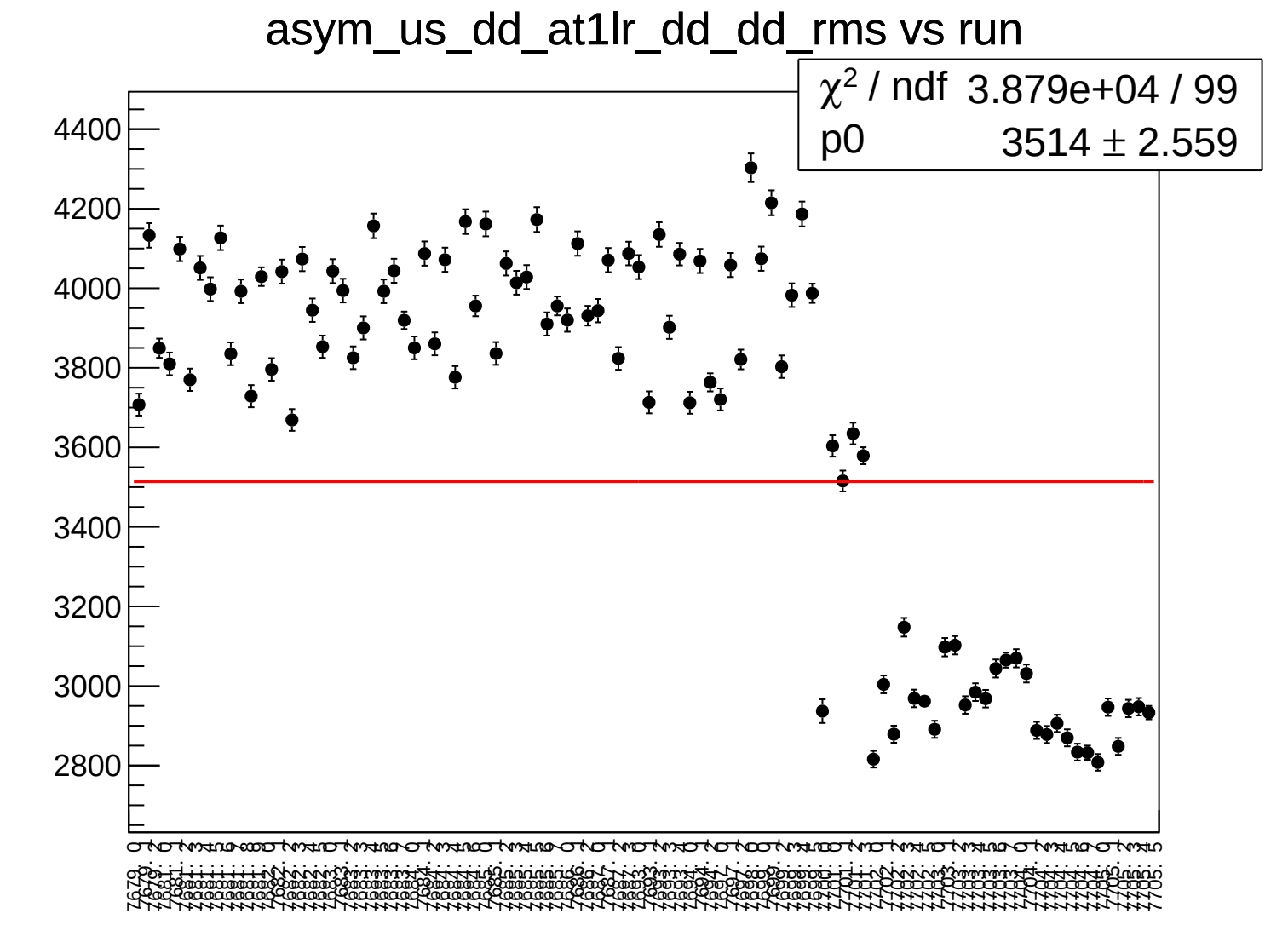

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 85.74 / 99
p0 942.1 ± 3071
150
100
50
0
−50
−100
−150
pull
Entries 100
Mean −105.9
Std Dev 0
2
1
0
−1
−2

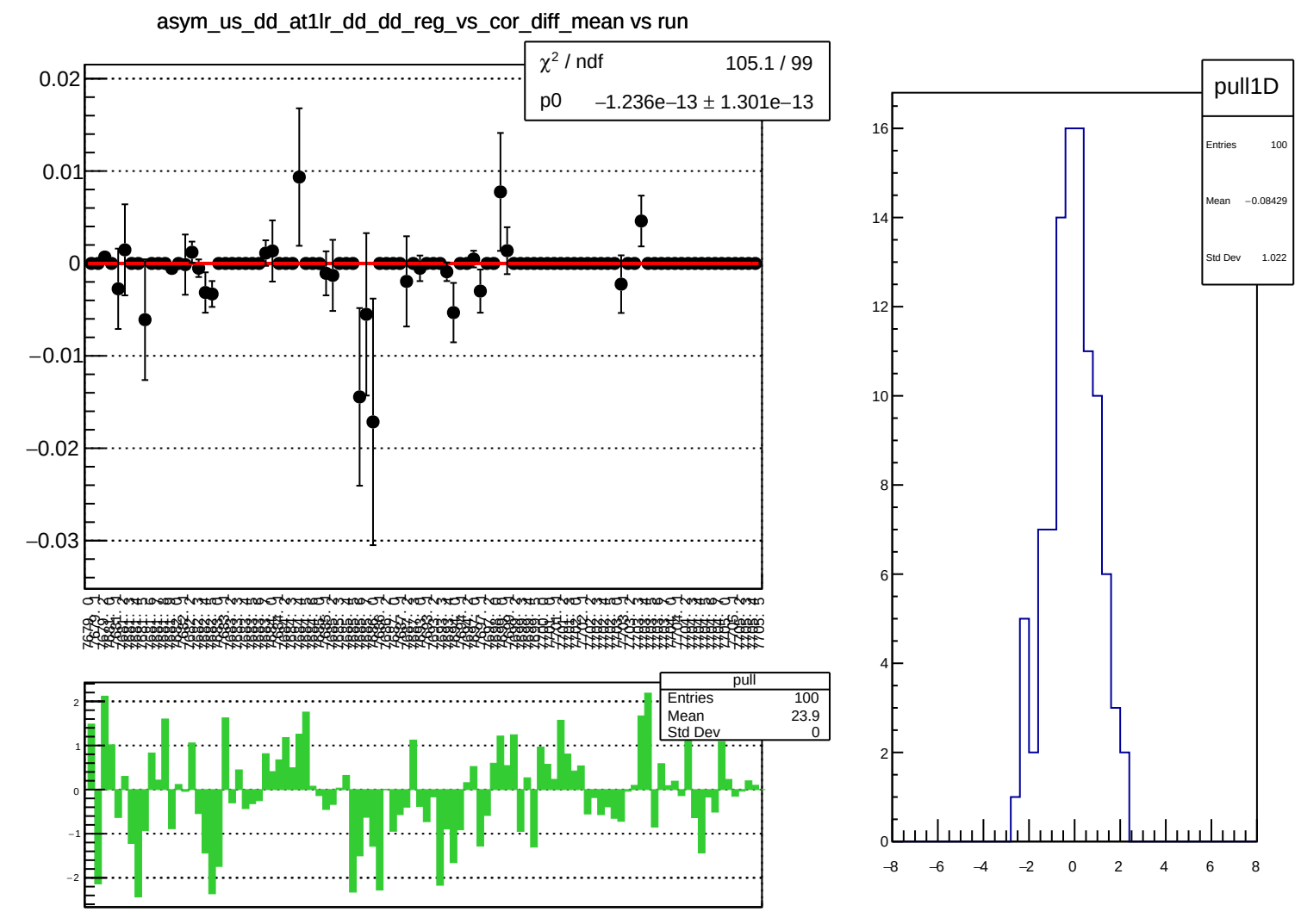

pull1D
Entries 100
Mean 0.02731
Std Dev 0.9256
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

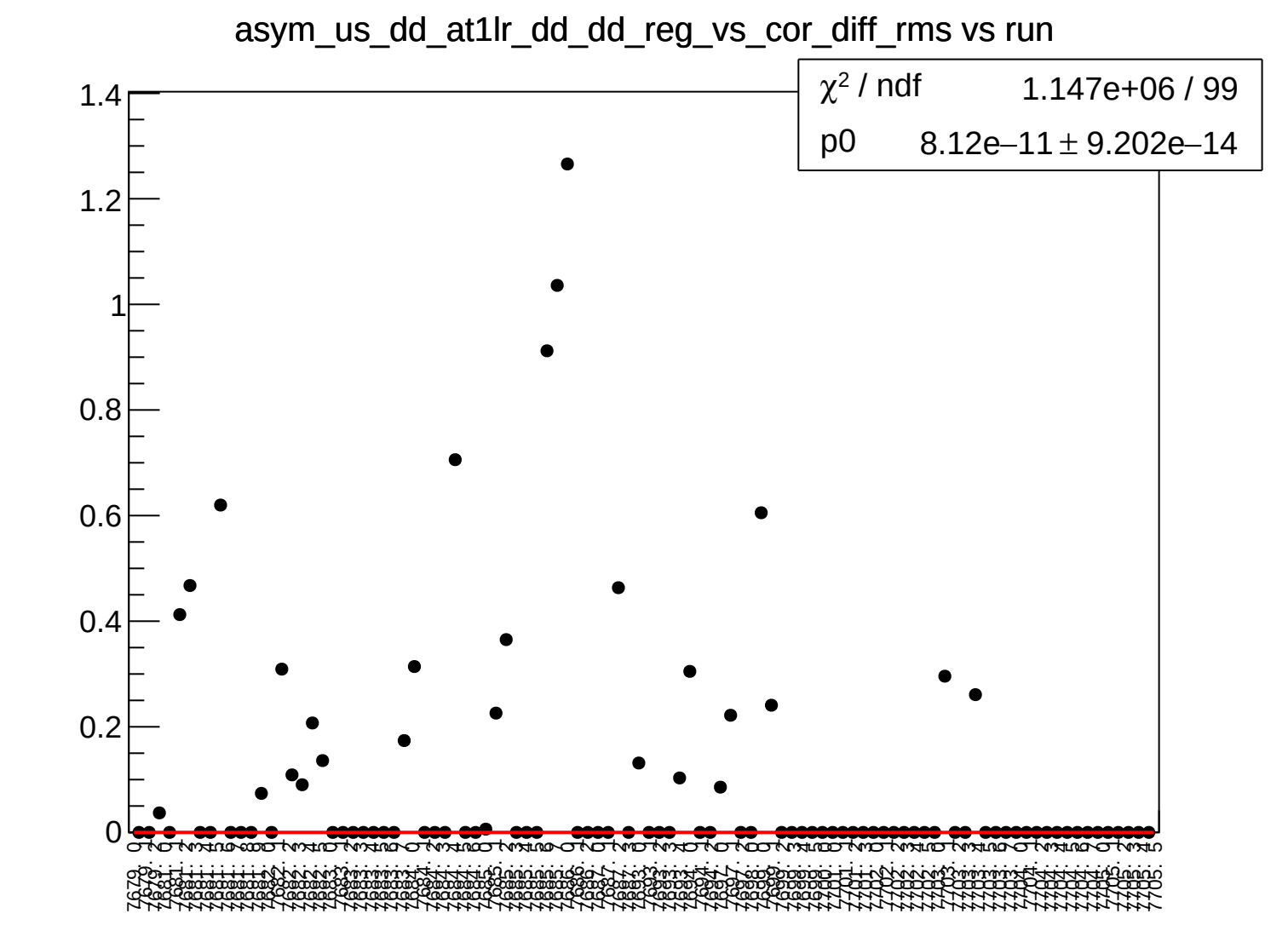

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 7.15e+04 / 99
p0 2957 ± 2.172
4000
3500
3000
2500
2000

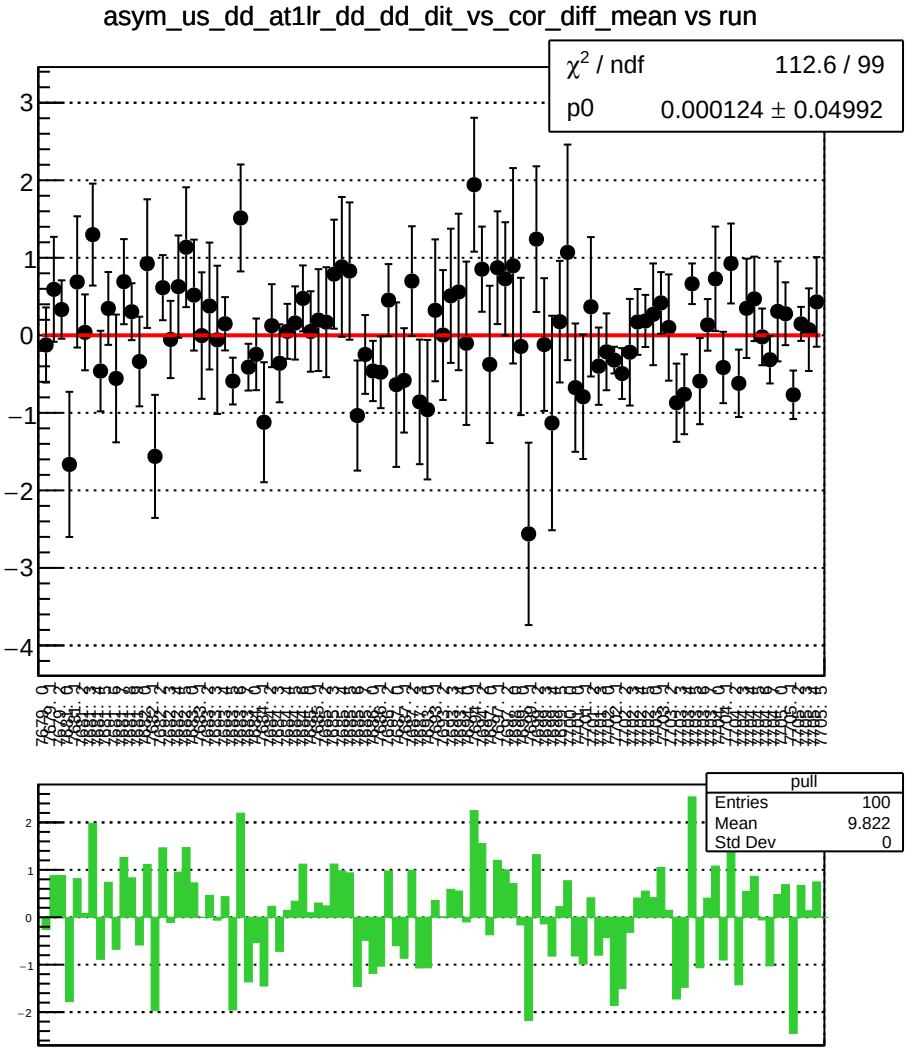

asym_us_dd_at1lr_dd_dd_mean vs run
×10^3
χ² / ndf 112.6 / 99
p0 −357.7 ± 3619
pull
Entries 100
Mean −197.7
Std Dev 0

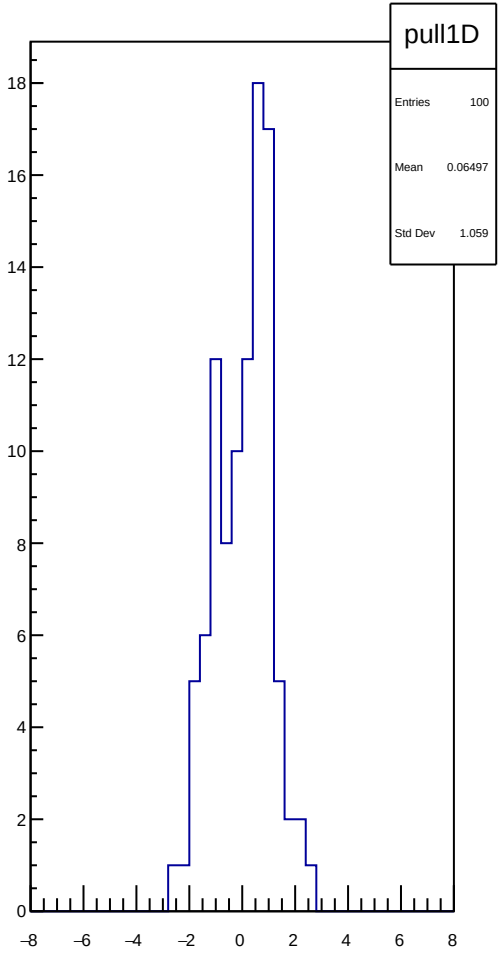

pull1D
Entries 100
Mean −0.01532
Std Dev 1.061

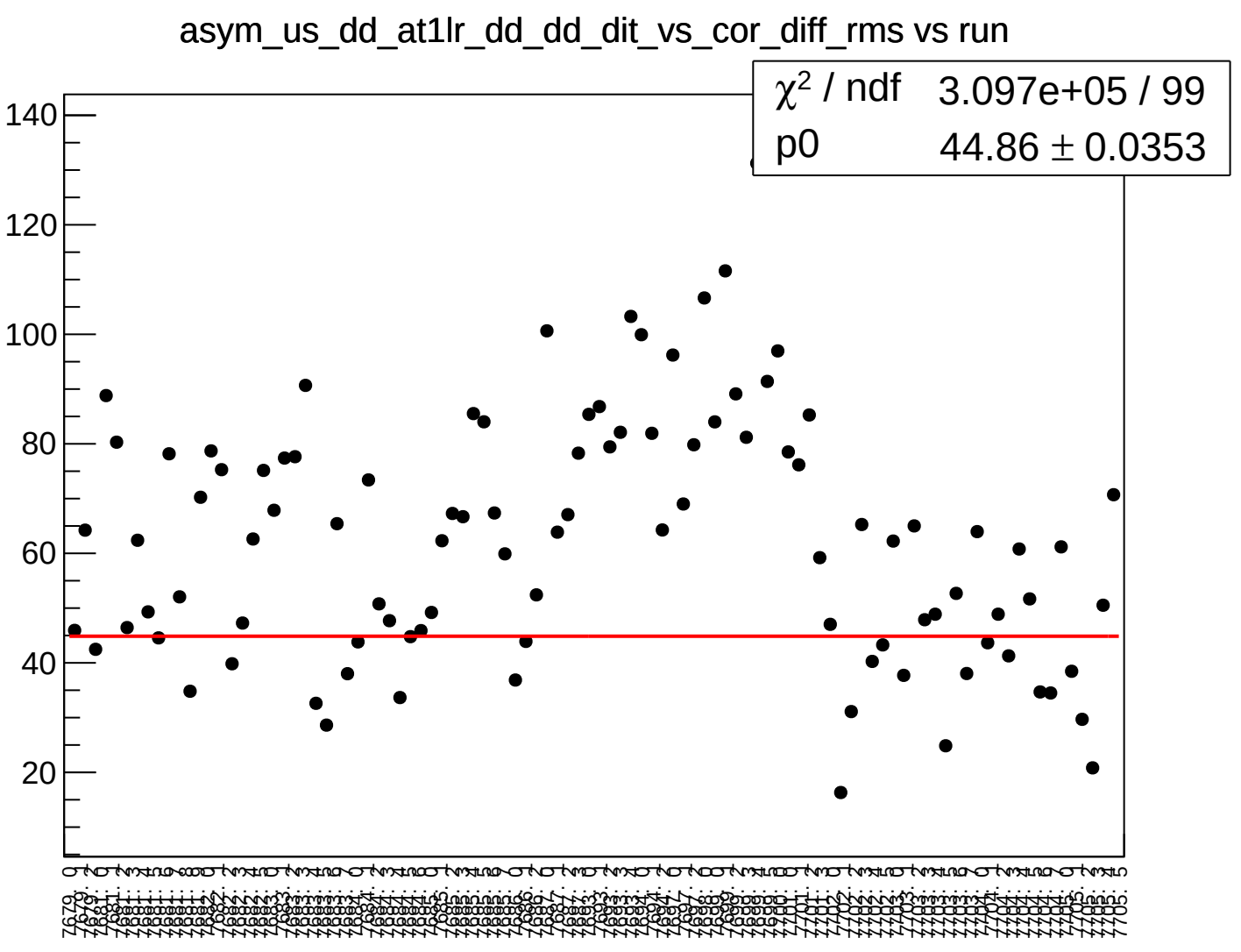

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 3.879e+04 / 99
p0 3514 ± 2.559
4400
4200
4000
3800
3600
3400
3200
3000
2800

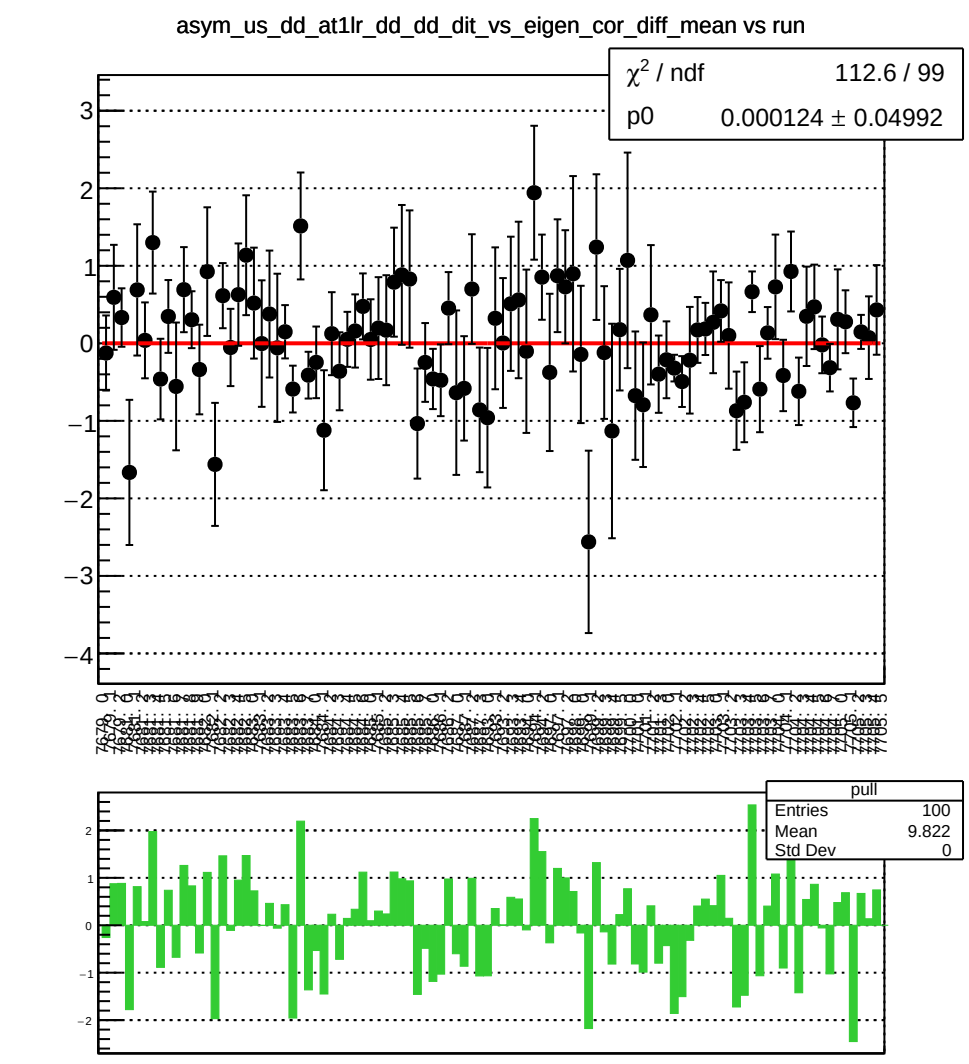

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 105.1 / 99
p0 −1.236e−13 ± 1.301e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 100
Mean 23.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.08429
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

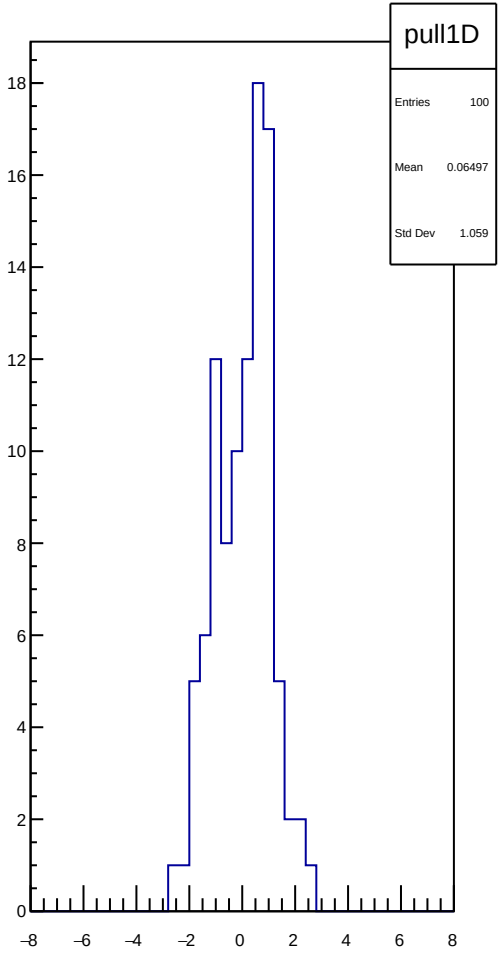

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.147e+06 / 99
p0 8.12e−11 ± 9.202e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

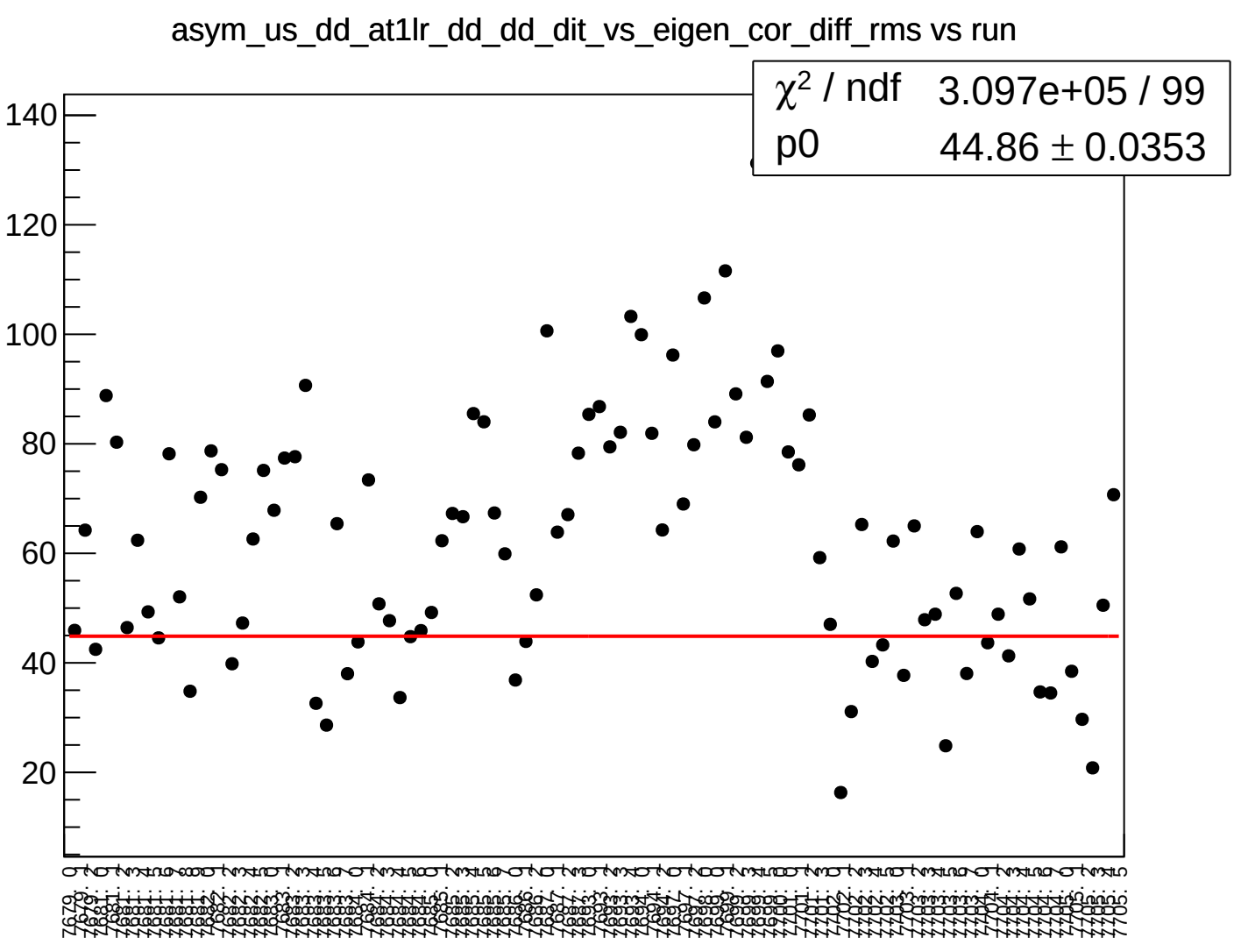

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 112.6 / 99
p0 0.000124 ± 0.04992
pull
Entries 100
Mean 9.822
Std Dev 0

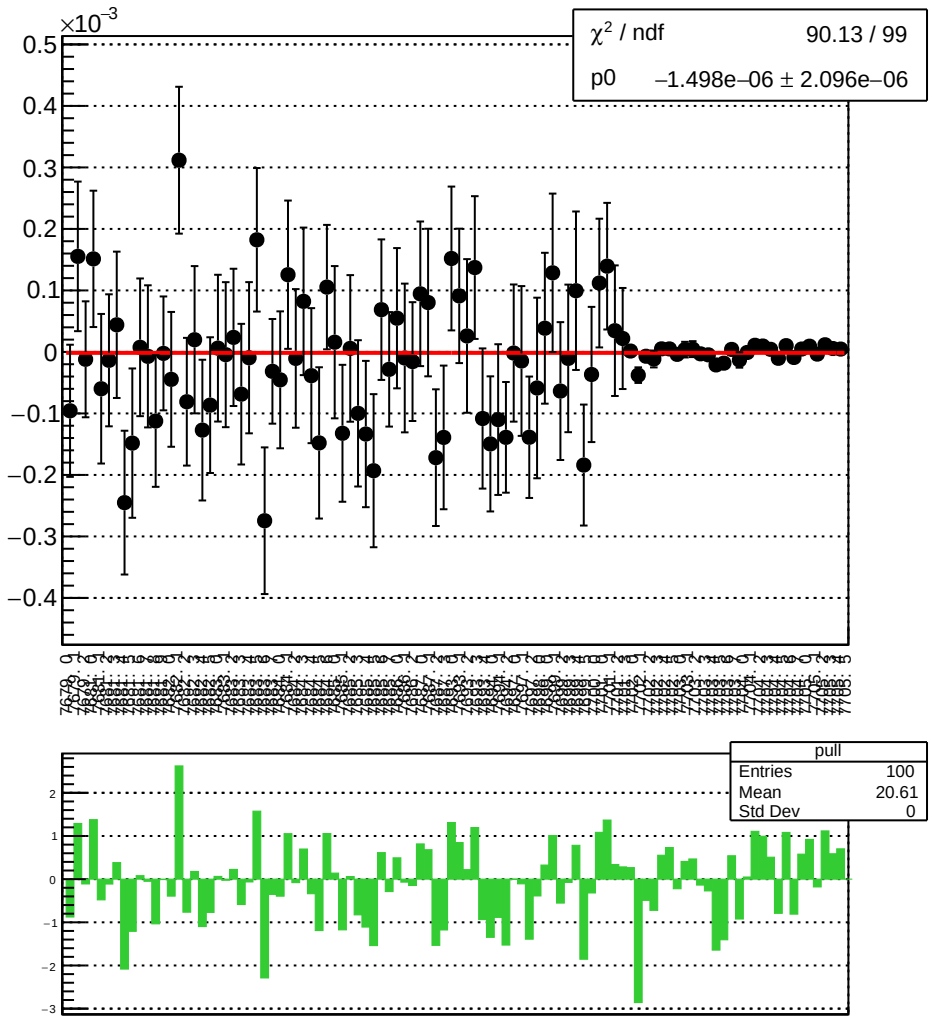

pull1D
Entries 100
Mean 0.06497
Std Dev 1.059

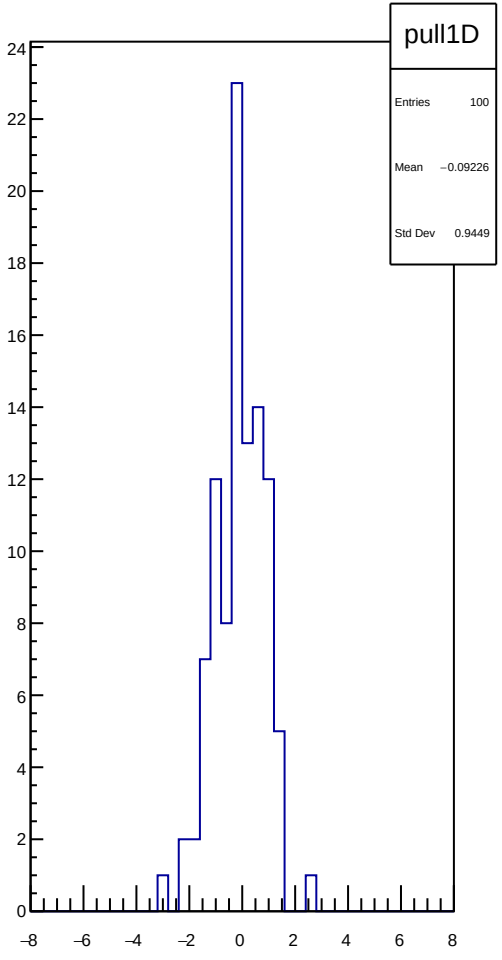

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.097e+05 / 99
p0 44.86 ± 0.0353
140
120
100
80
60
40
20

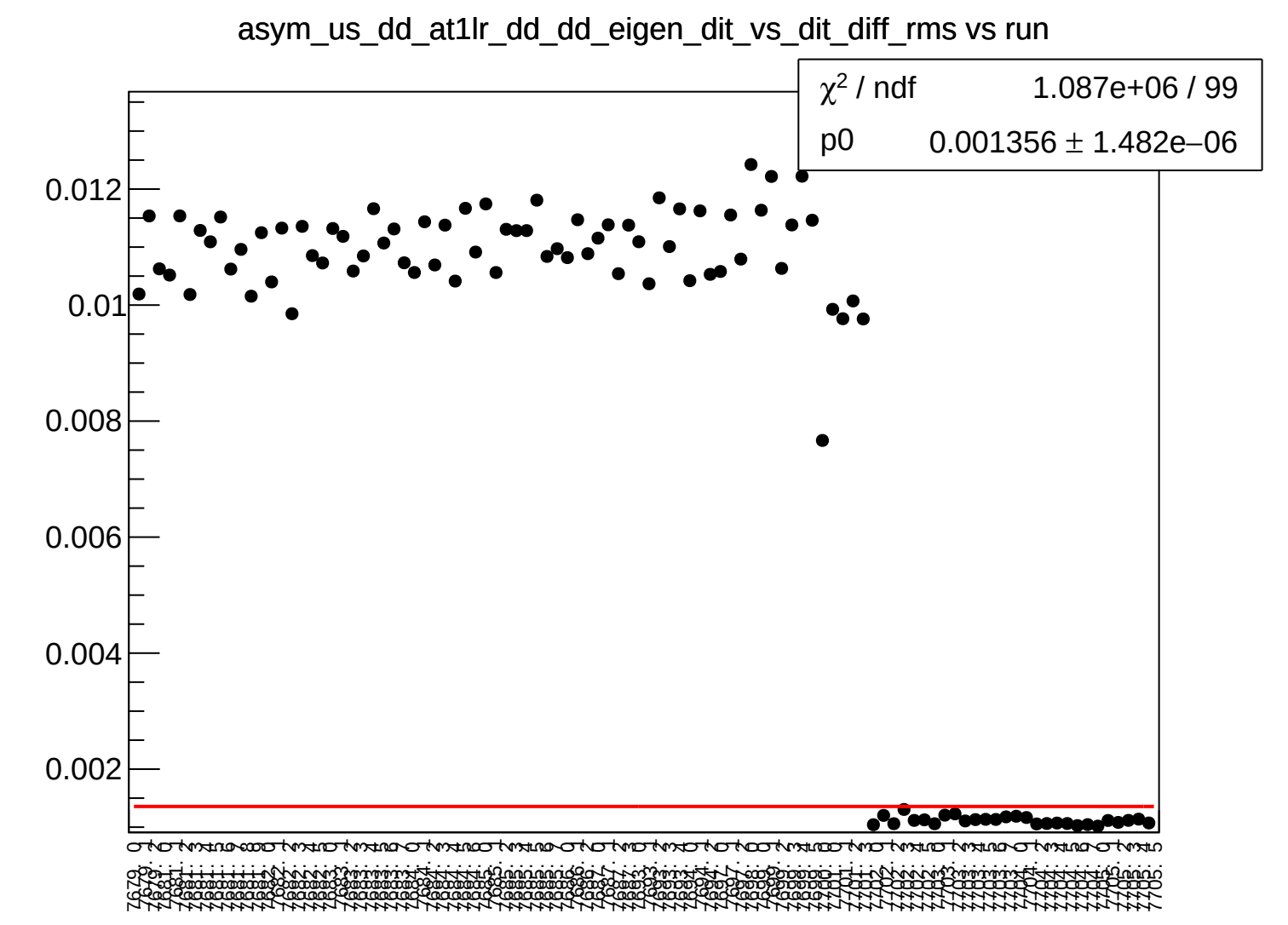

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.6 / 99
p0 0.000124 ± 0.04992
pull
Entries 100
Mean 9.822
Std Dev 0

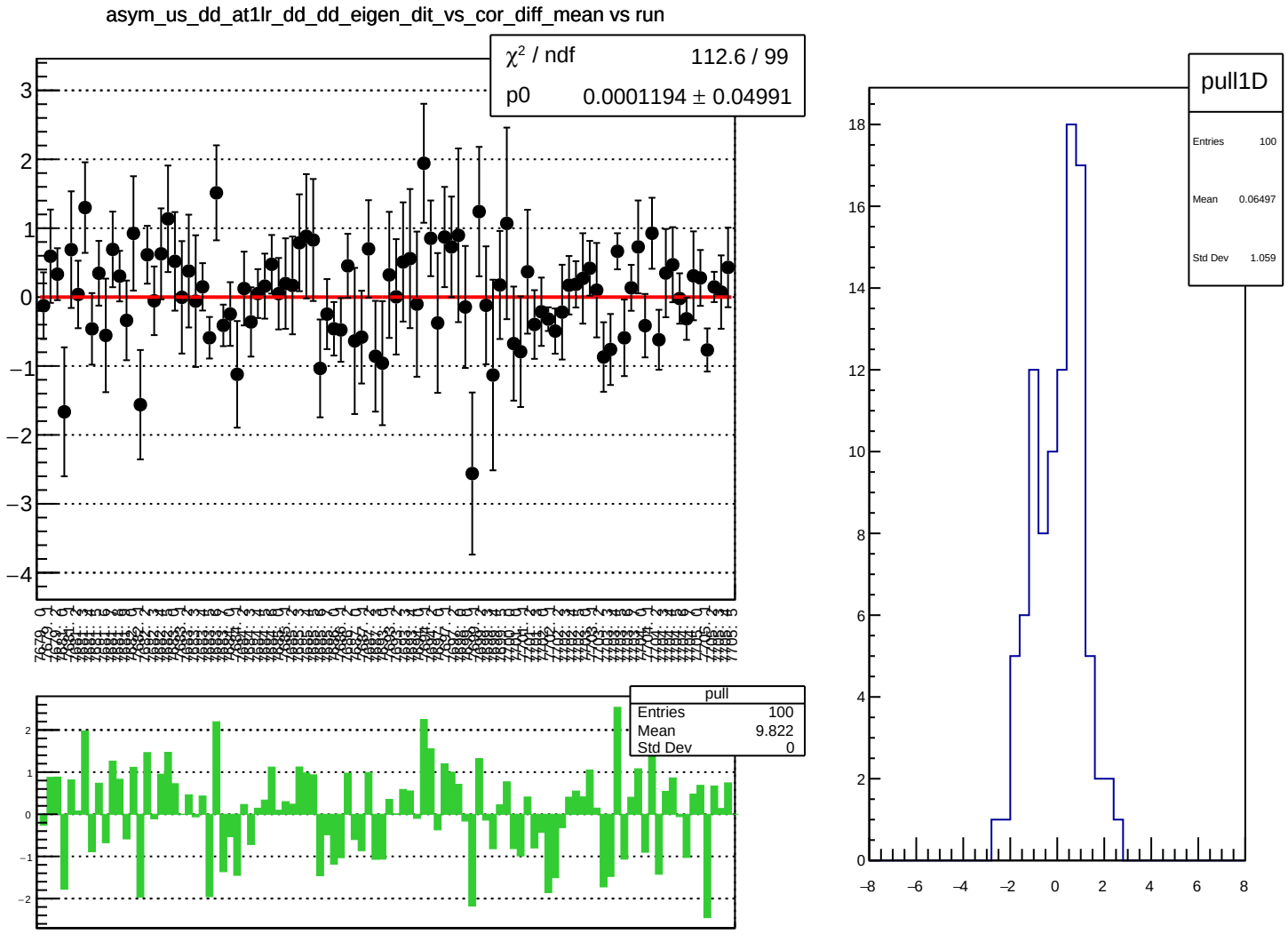

pull1D
Entries 100
Mean 0.06497
Std Dev 1.059

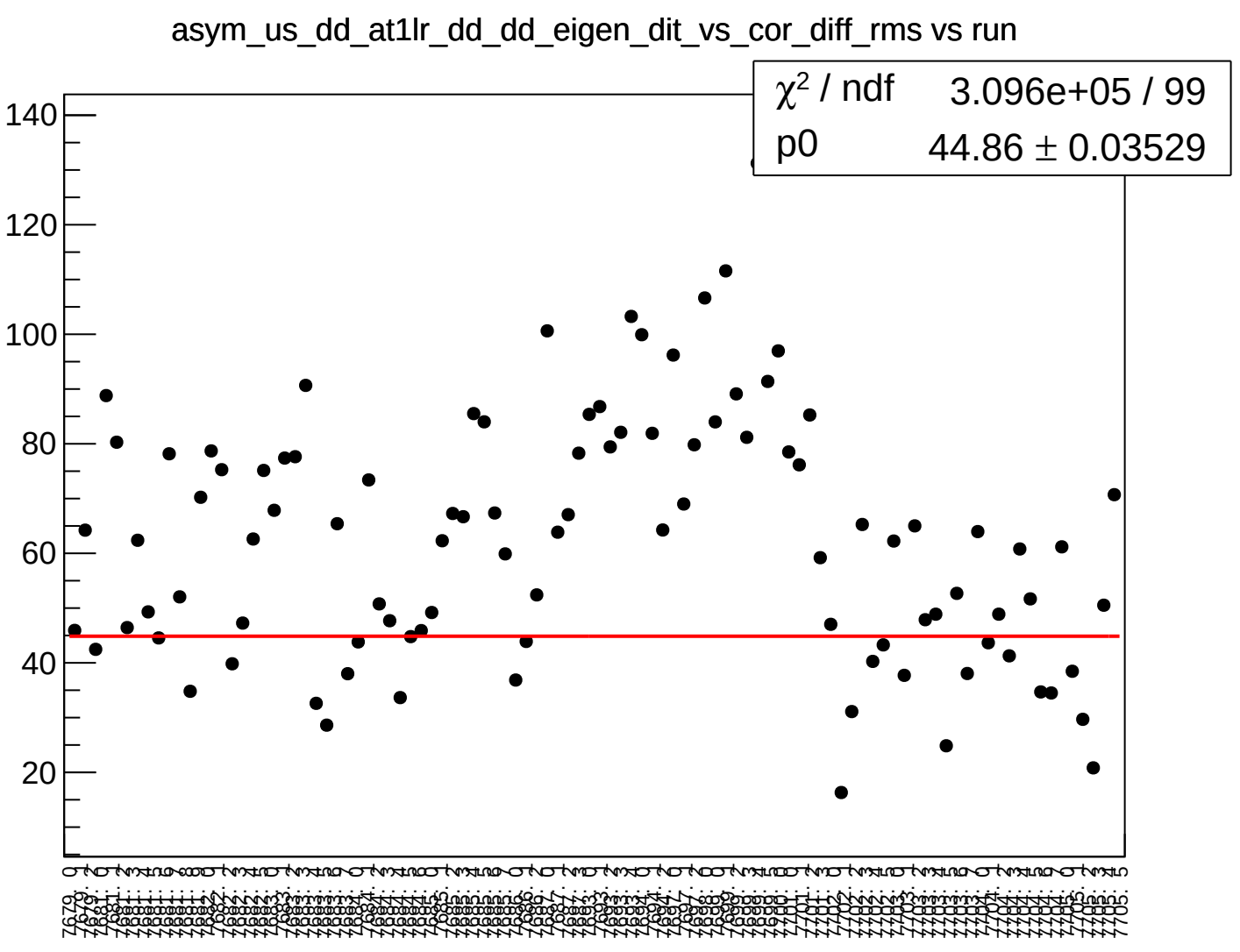

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.097e+05 / 99
p0 44.86 ± 0.0353
140
120
100
80
60
40
20

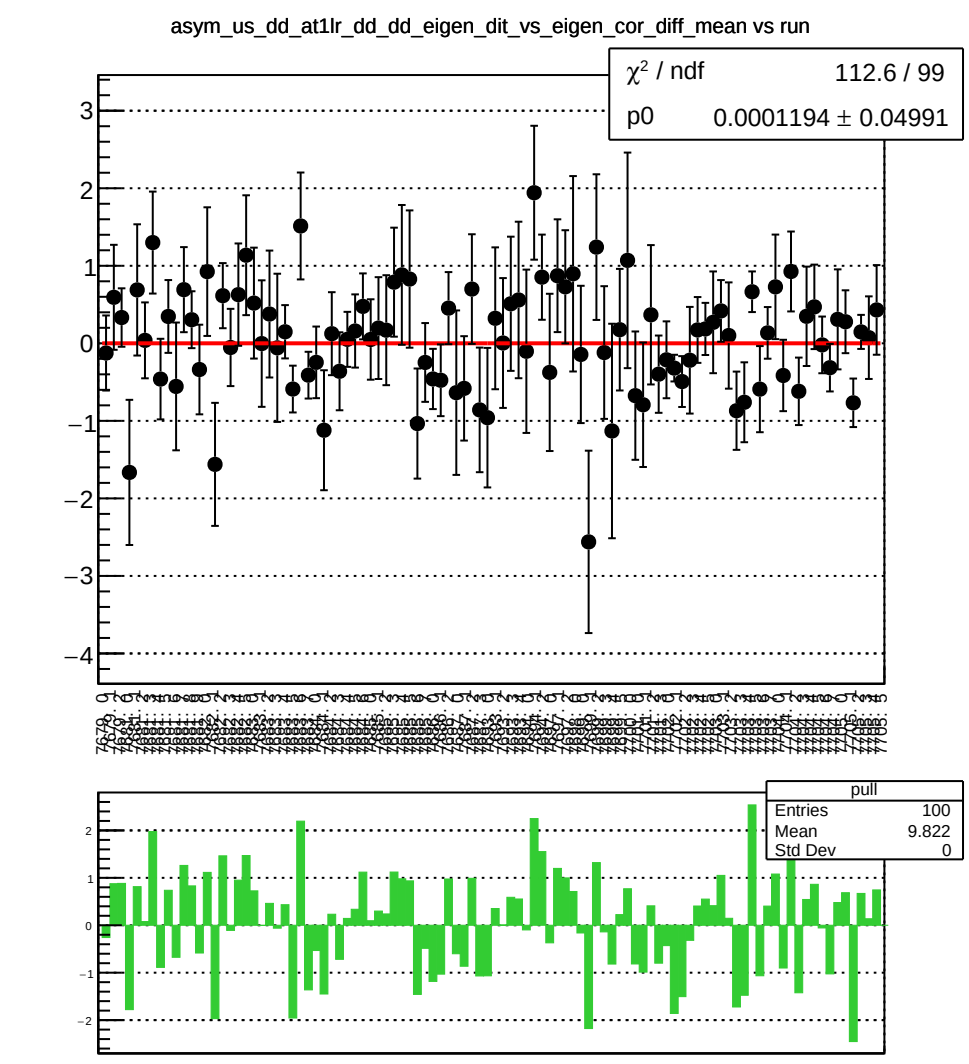

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.13 / 99
p0 −1.498e−06 ± 2.096e−06
pull
Entries 100
Mean 20.61
Std Dev 0

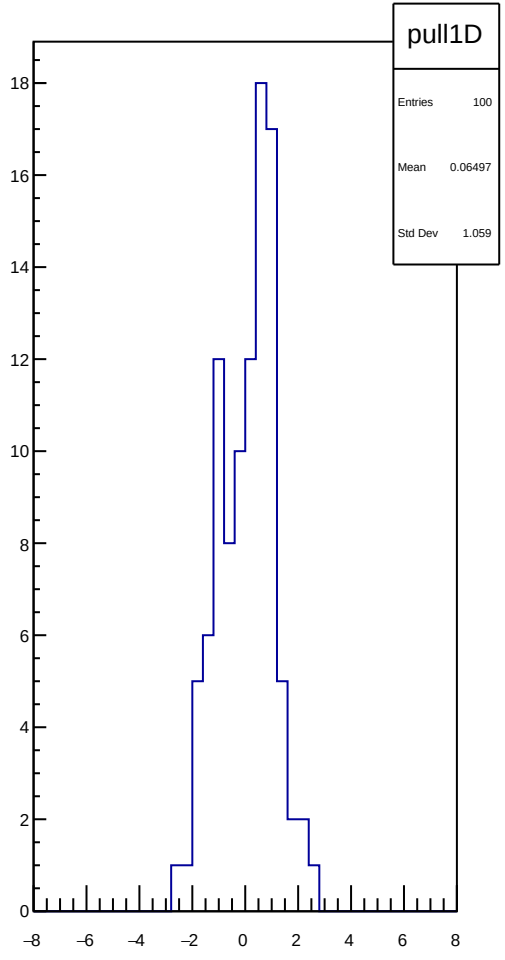

pull1D
Entries 100
Mean −0.09226
Std Dev 0.9449

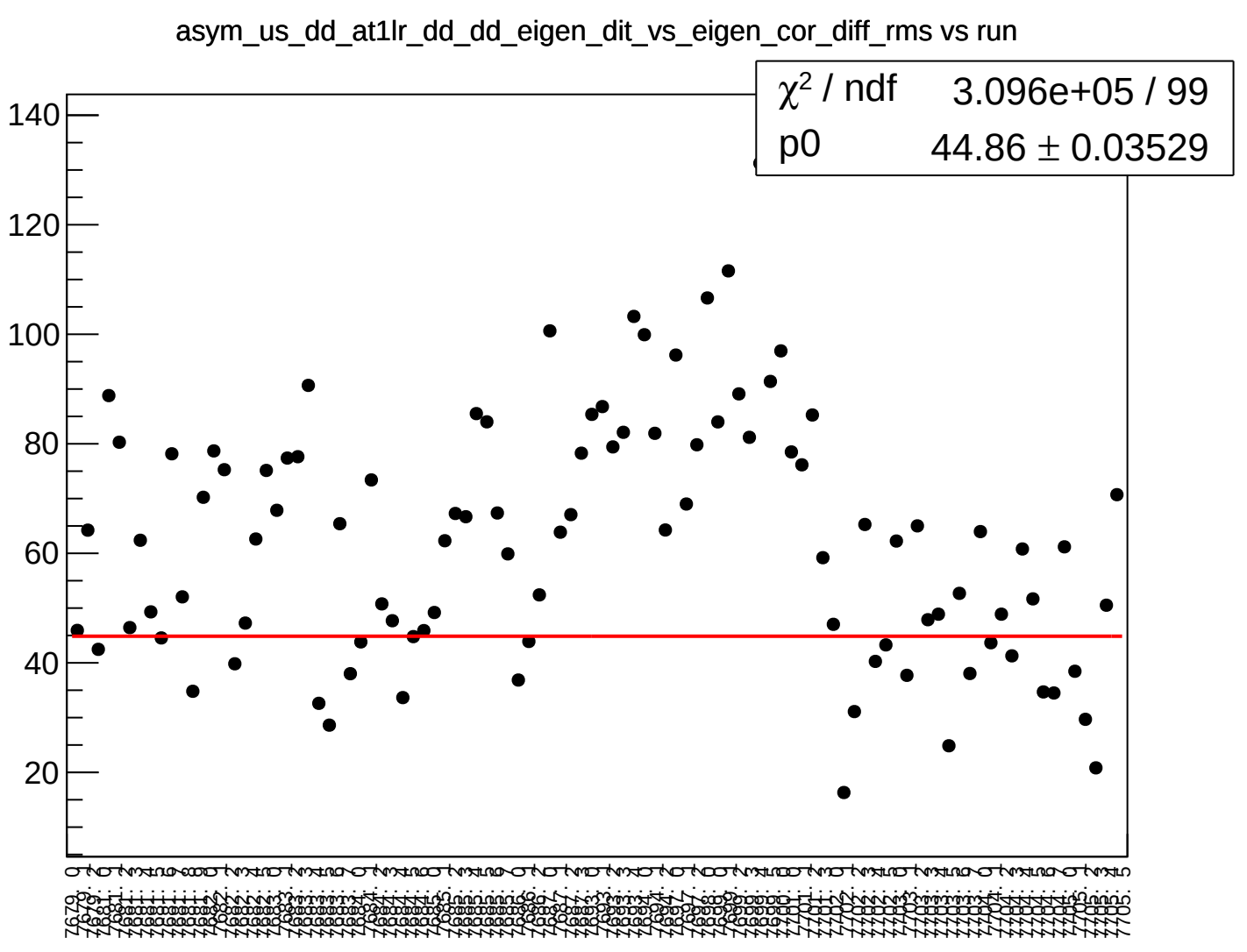

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.087e+06 / 99
p0 0.001356 ± 1.482e−06
0.012
0.01
0.008
0.006
0.004
0.002

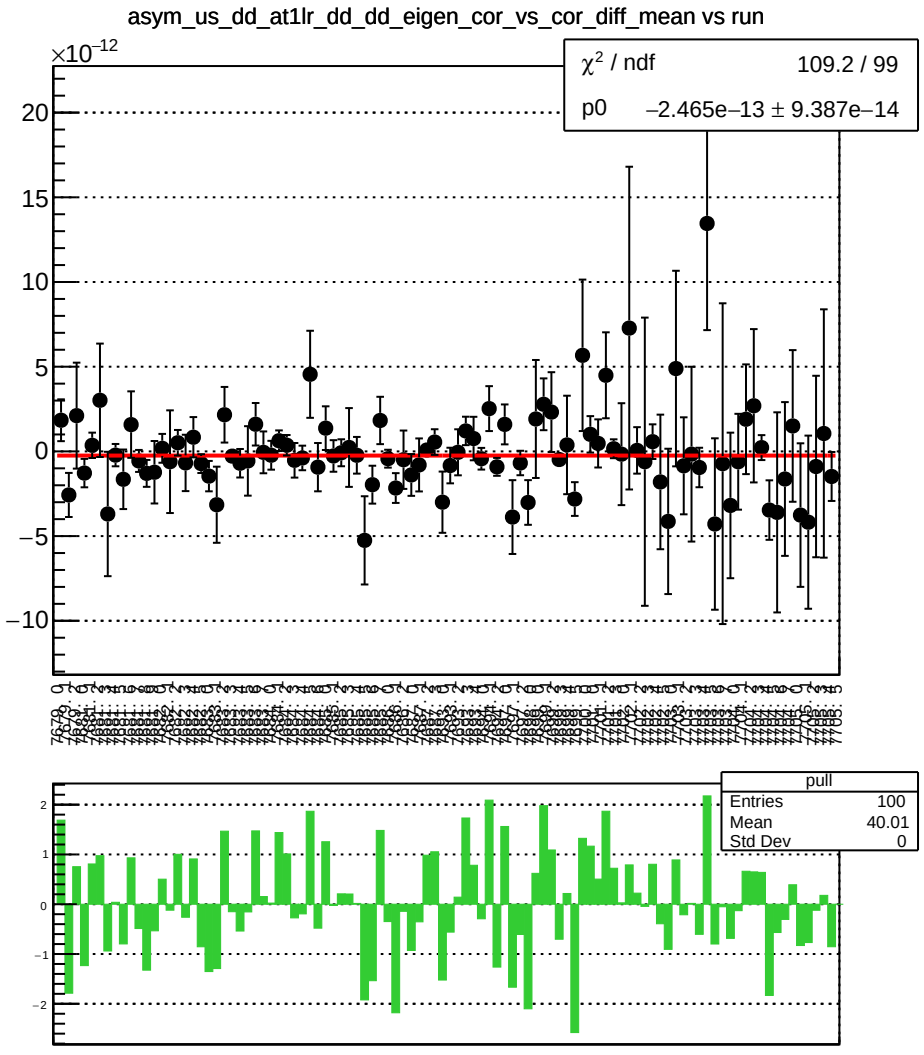

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 112.6 / 99
p0 0.0001194 ± 0.04991
pull
Entries 100
Mean 9.822
Std Dev 0
pull1D
Entries 100
Mean 0.06497
Std Dev 1.059

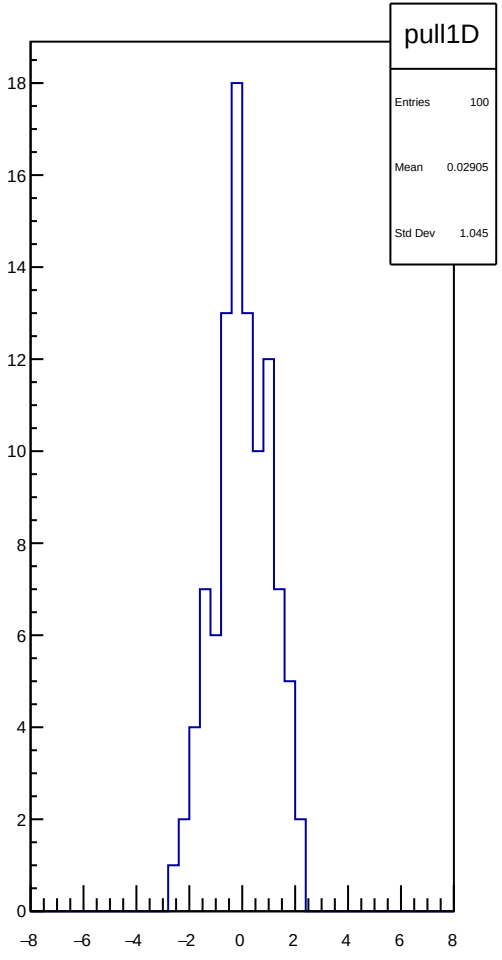

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.096e+05 / 99
p0 44.86 ± 0.03529
140
120
100
80
60
40
20

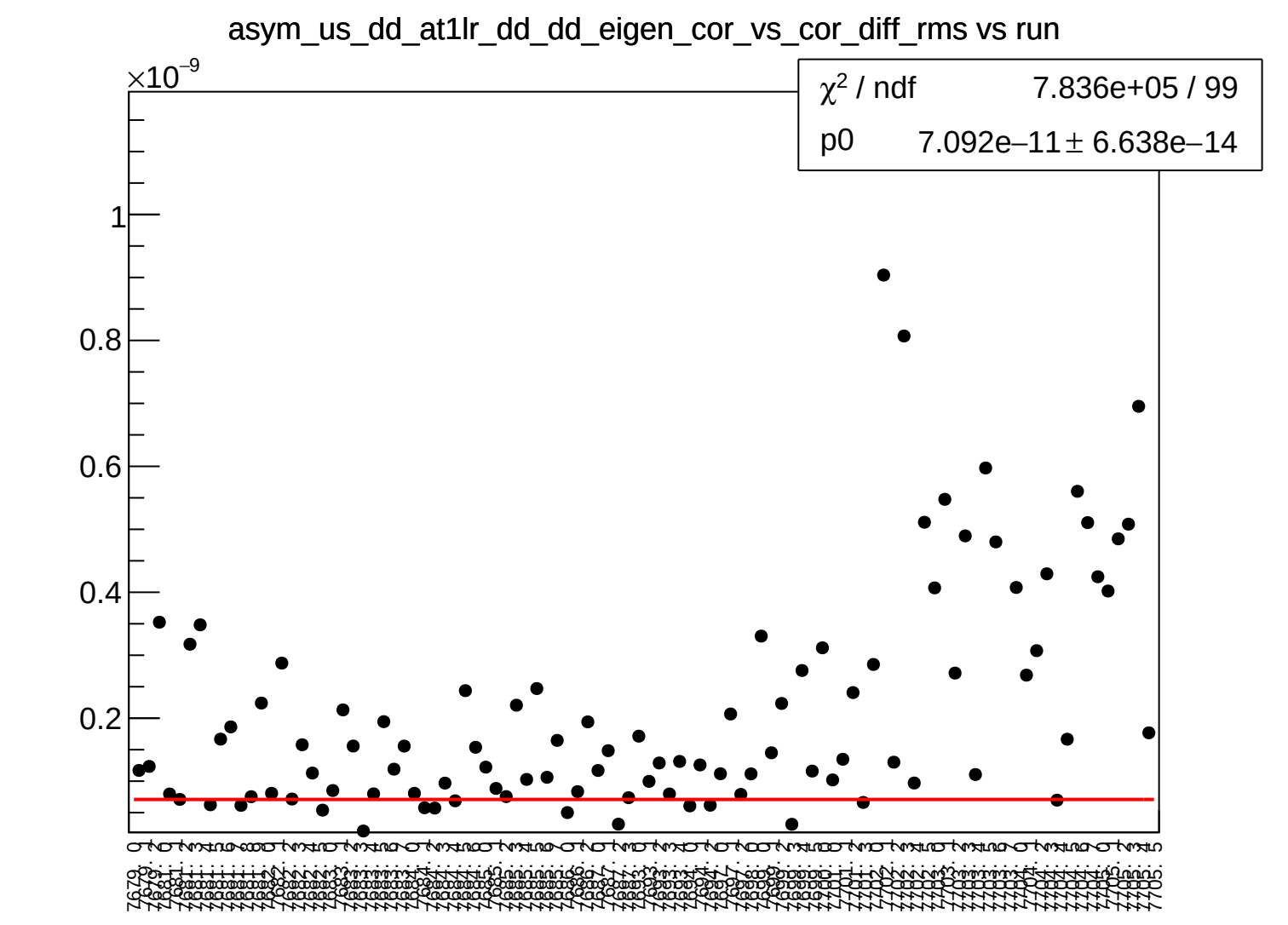

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.6 / 99
p0 0.0001194 ± 0.04991
pull
Entries 100
Mean 9.822
Std Dev 0

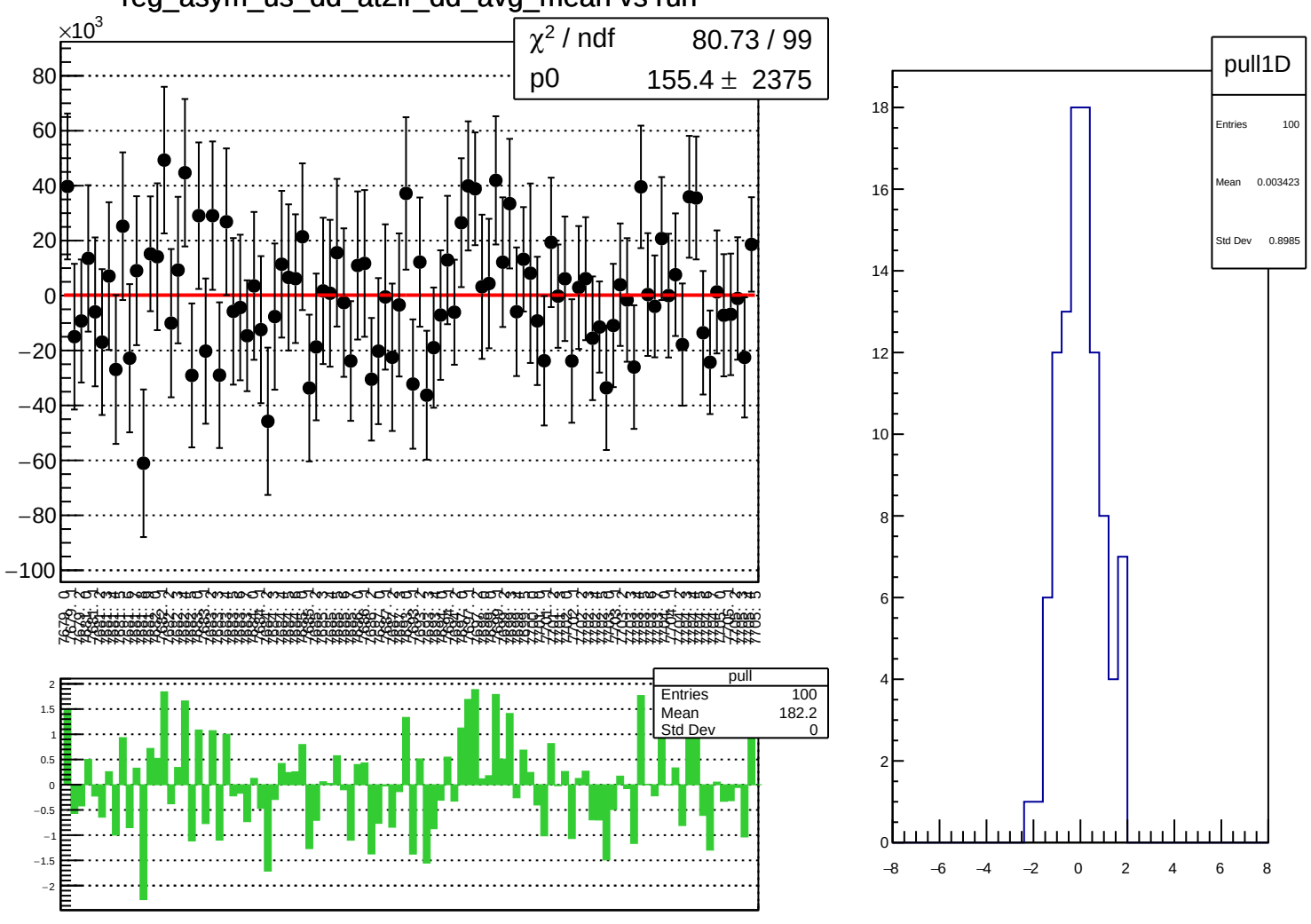

pull1D
Entries 100
Mean 0.06497
Std Dev 1.059

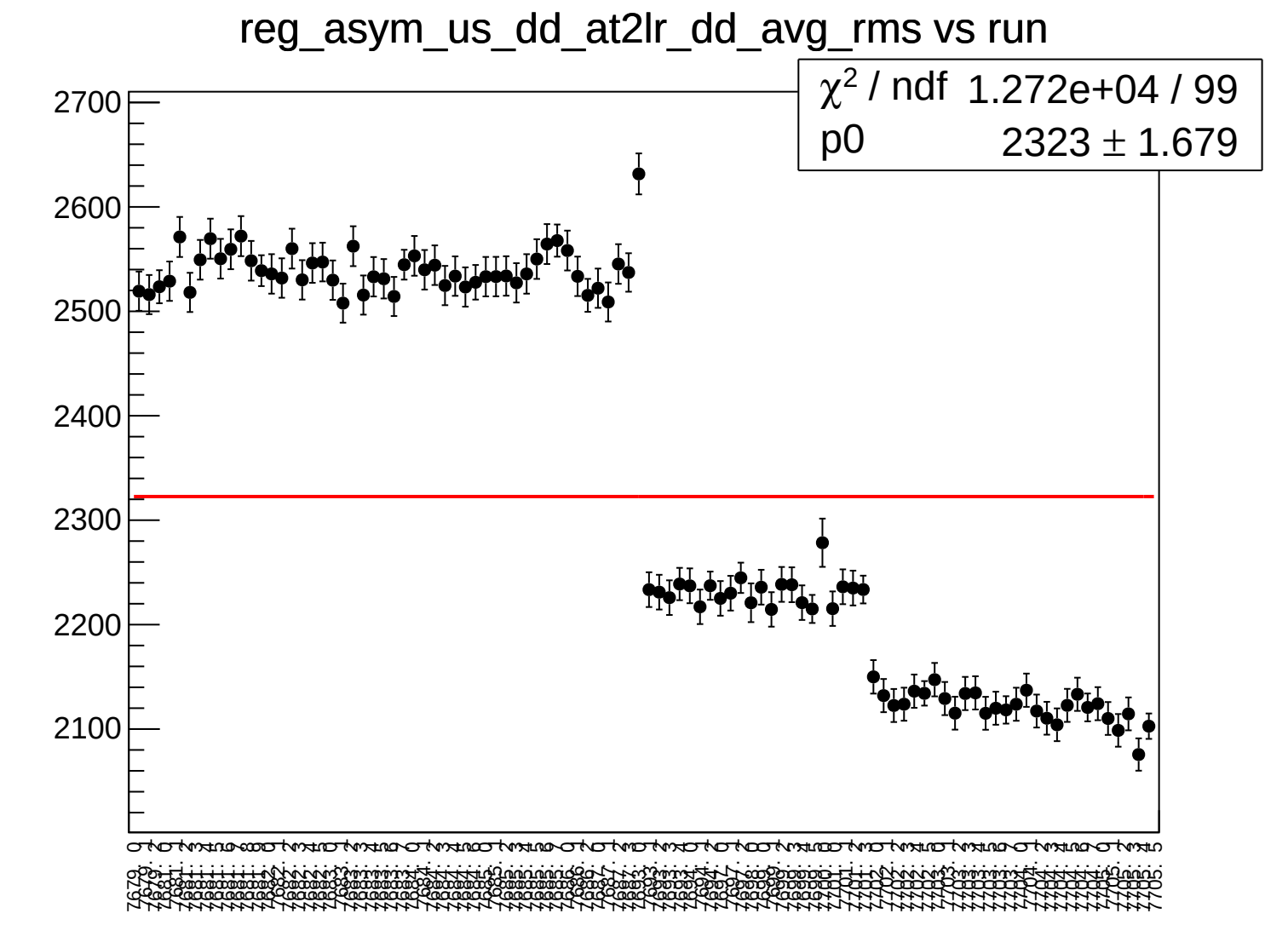

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.096e+05 / 99
p0 44.86 ± 0.03529
140
120
100
80
60
40
20

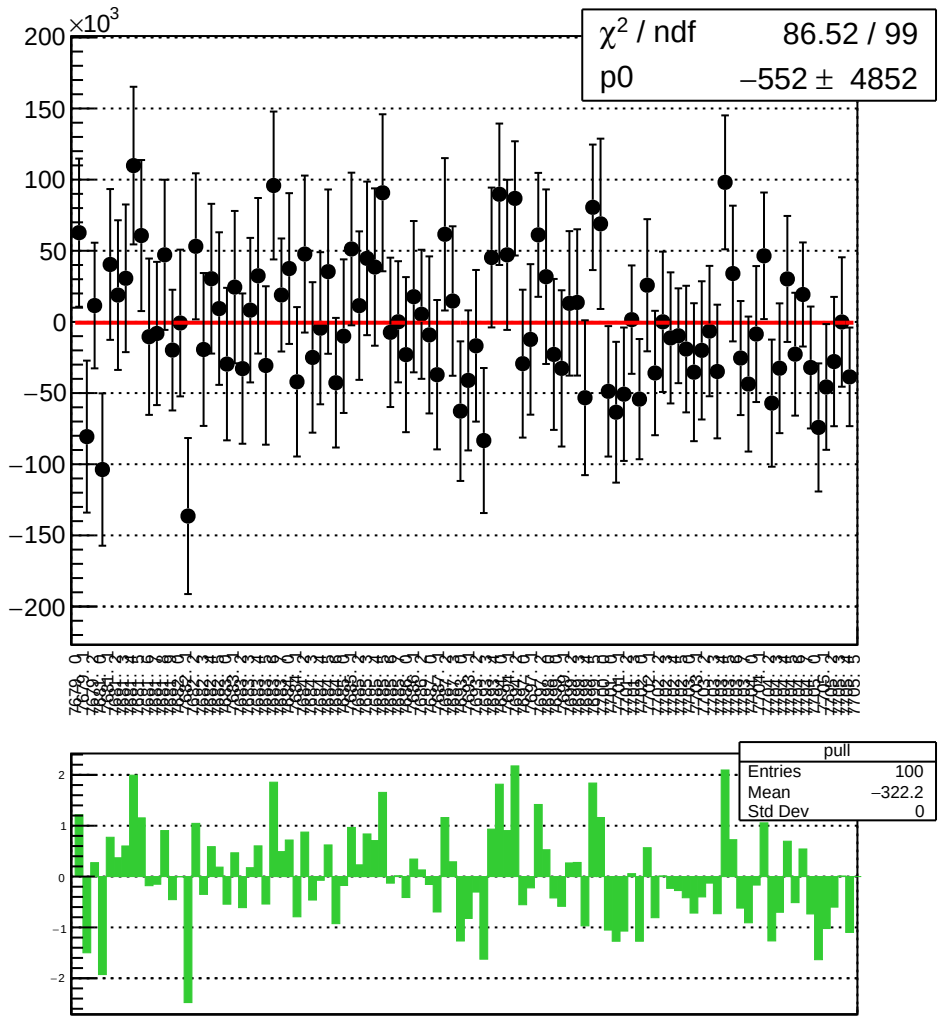

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 109.2 / 99
p0 −2.465e−13 ± 9.387e−14
pull
Entries 100
Mean 40.01
Std Dev 0

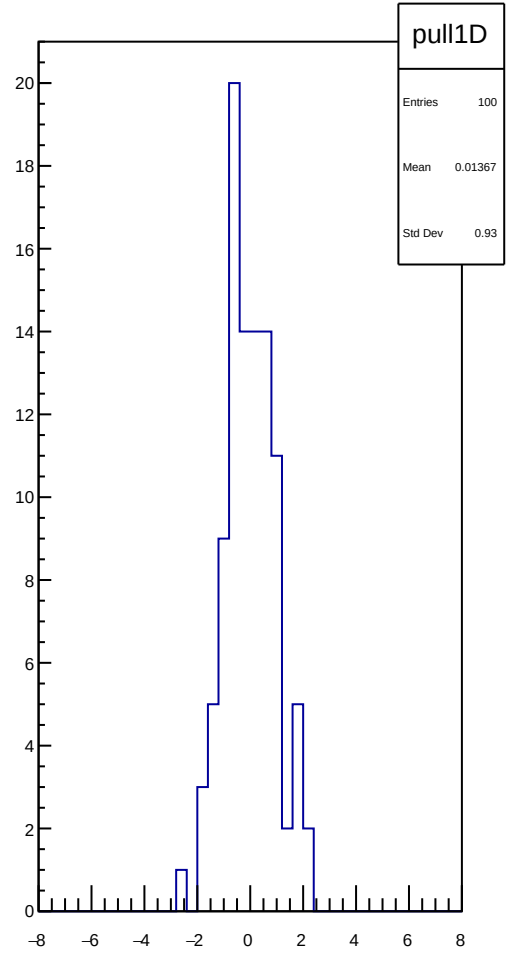

pull1D
Entries 100
Mean 0.02905
Std Dev 1.045

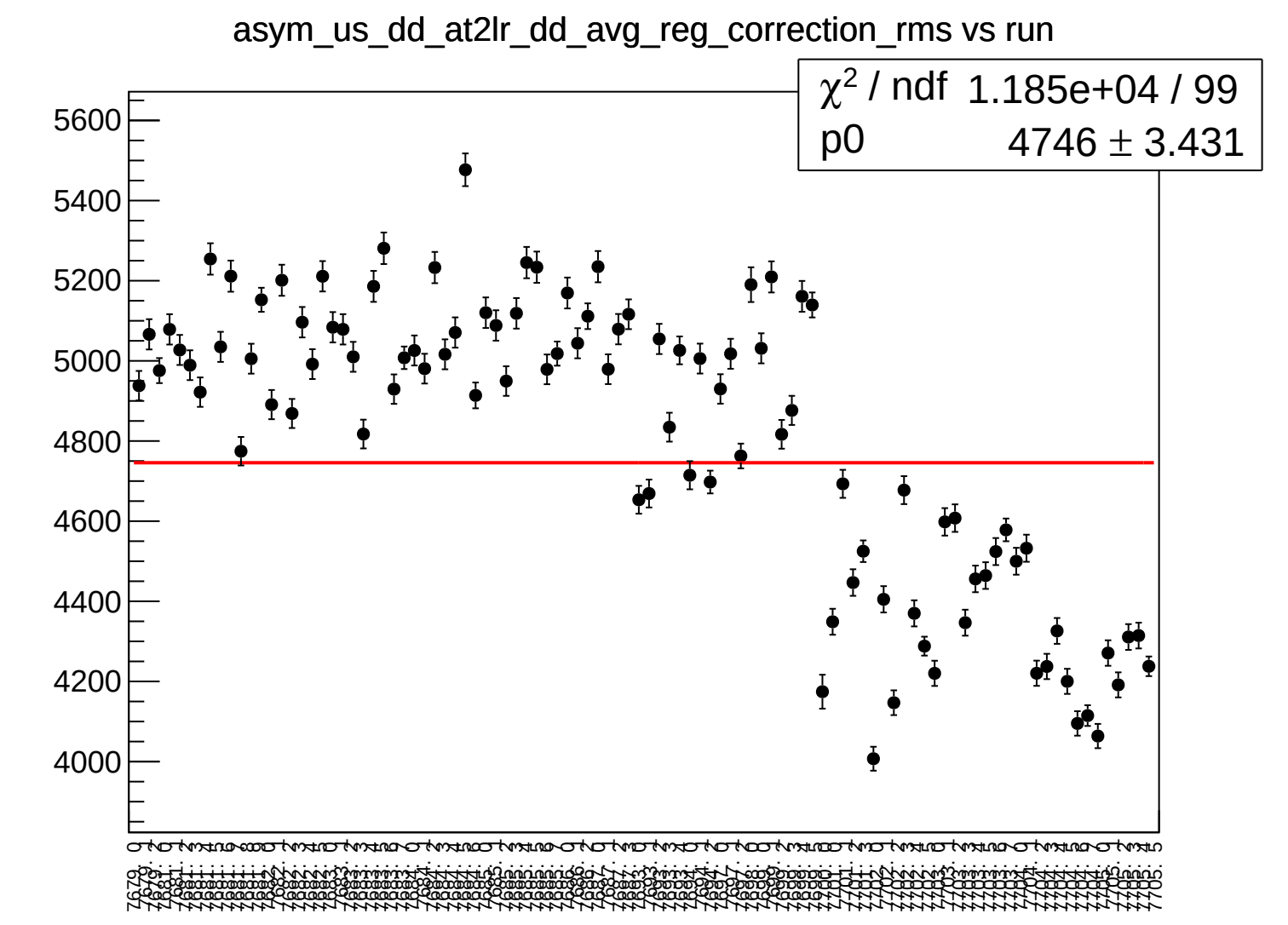

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.836e+05 / 99
p0 7.092e−11 ± 6.638e−14
1
0.8
0.6
0.4
0.2

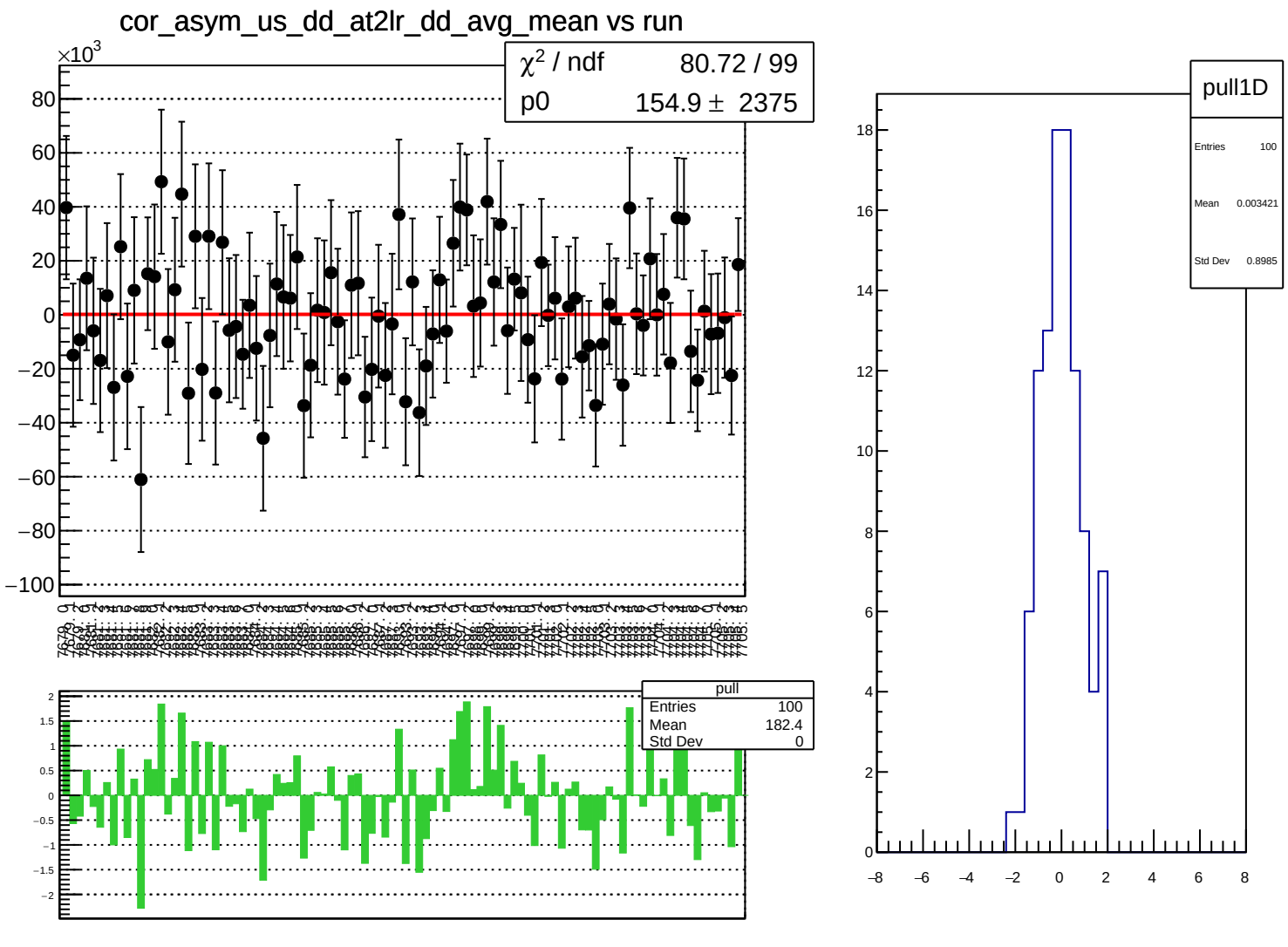

reg_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 80.73 / 99
p0 155.4 ± 2375
pull
Entries 100
Mean 182.2
Std Dev 0
pull1D
Entries 100
Mean 0.003423
Std Dev 0.8985

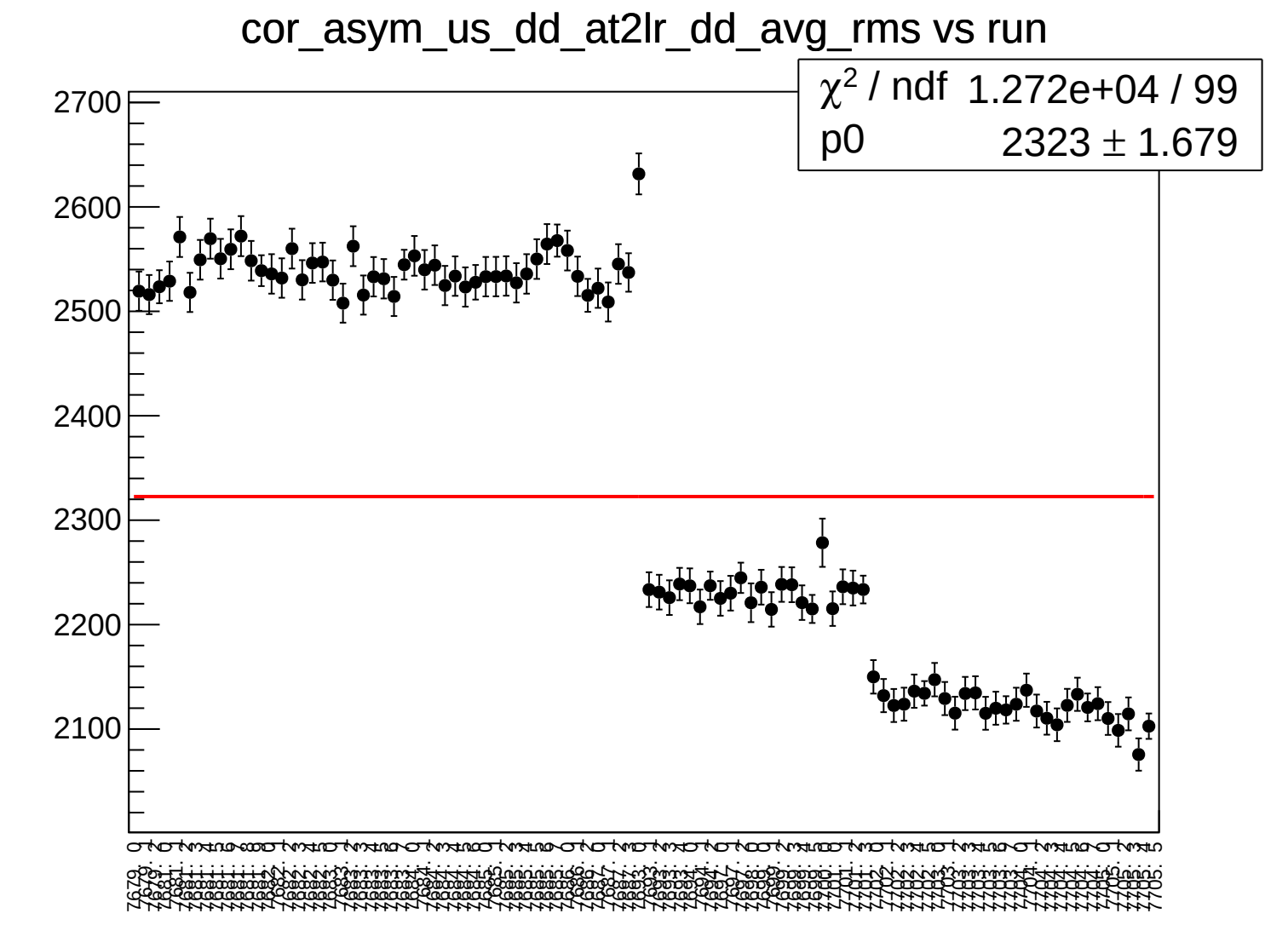

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1.272e+04 / 99
p0 2323 ± 1.679
2700
2600
2500
2400
2300
2200
2100

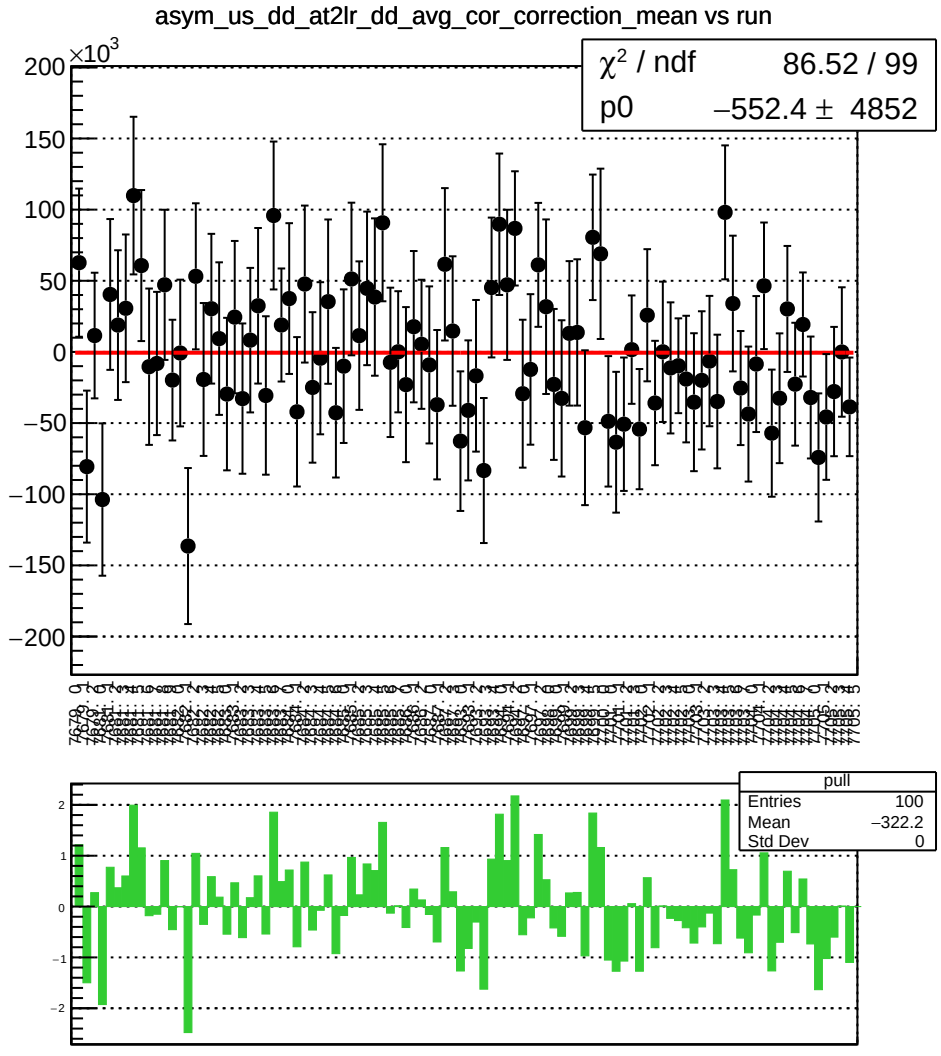

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 86.52 / 99
p0 −552 ± 4852
pull
Entries 100
Mean −322.2
Std Dev 0

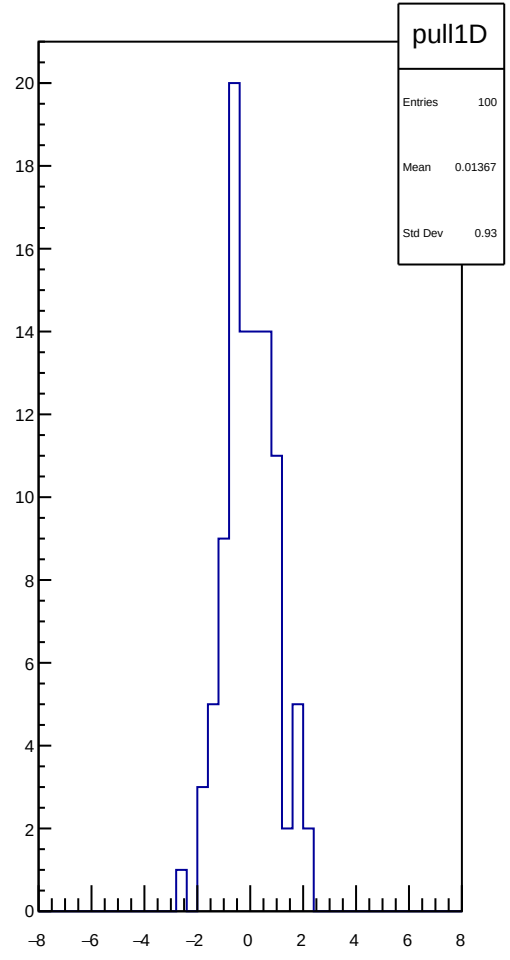

pull1D
Entries 100
Mean 0.01367
Std Dev 0.93

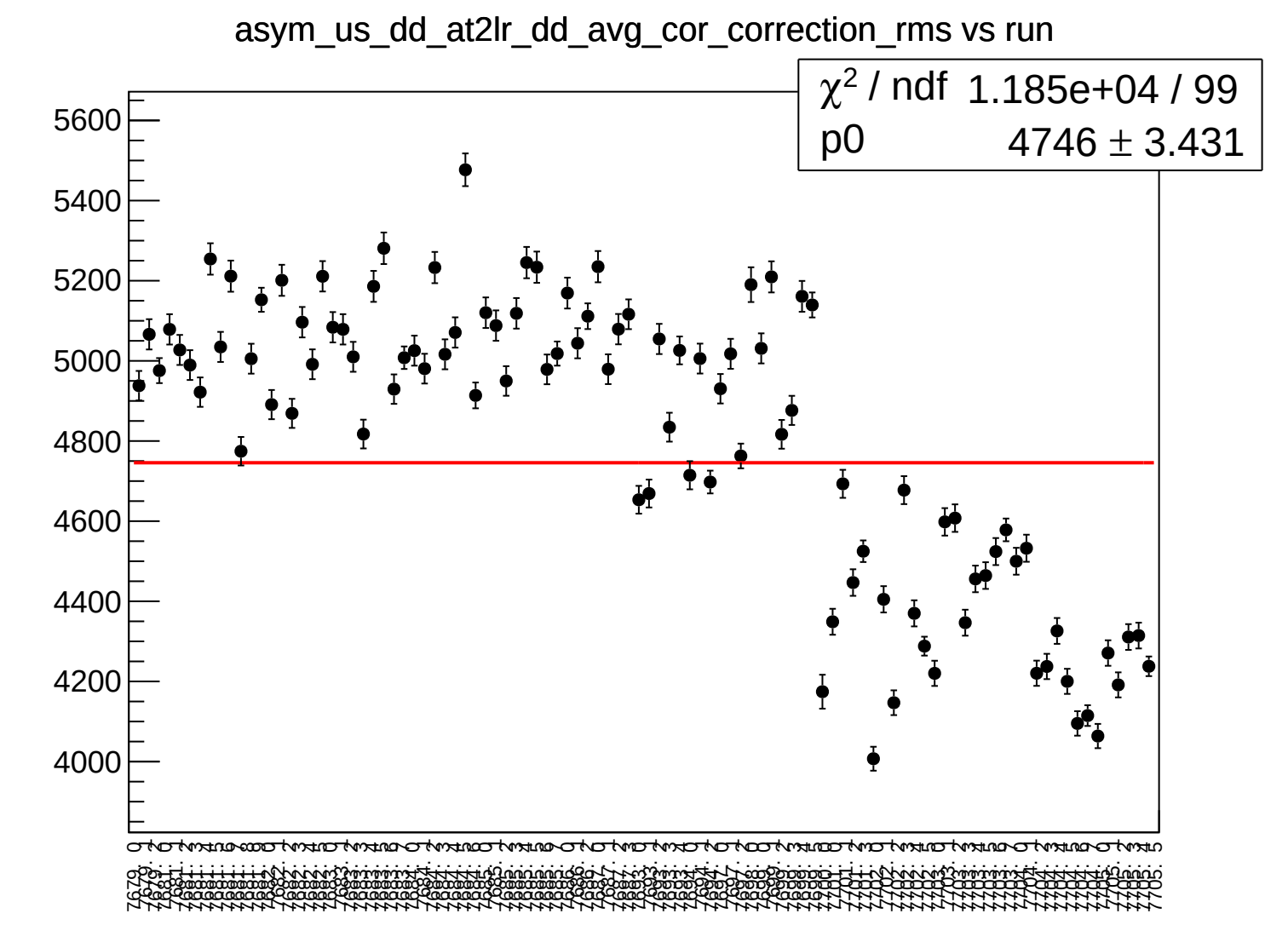

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.185e+04 / 99
p0 4746 ± 3.431
5600
5400
5200
5000
4800
4600
4400
4200
4000

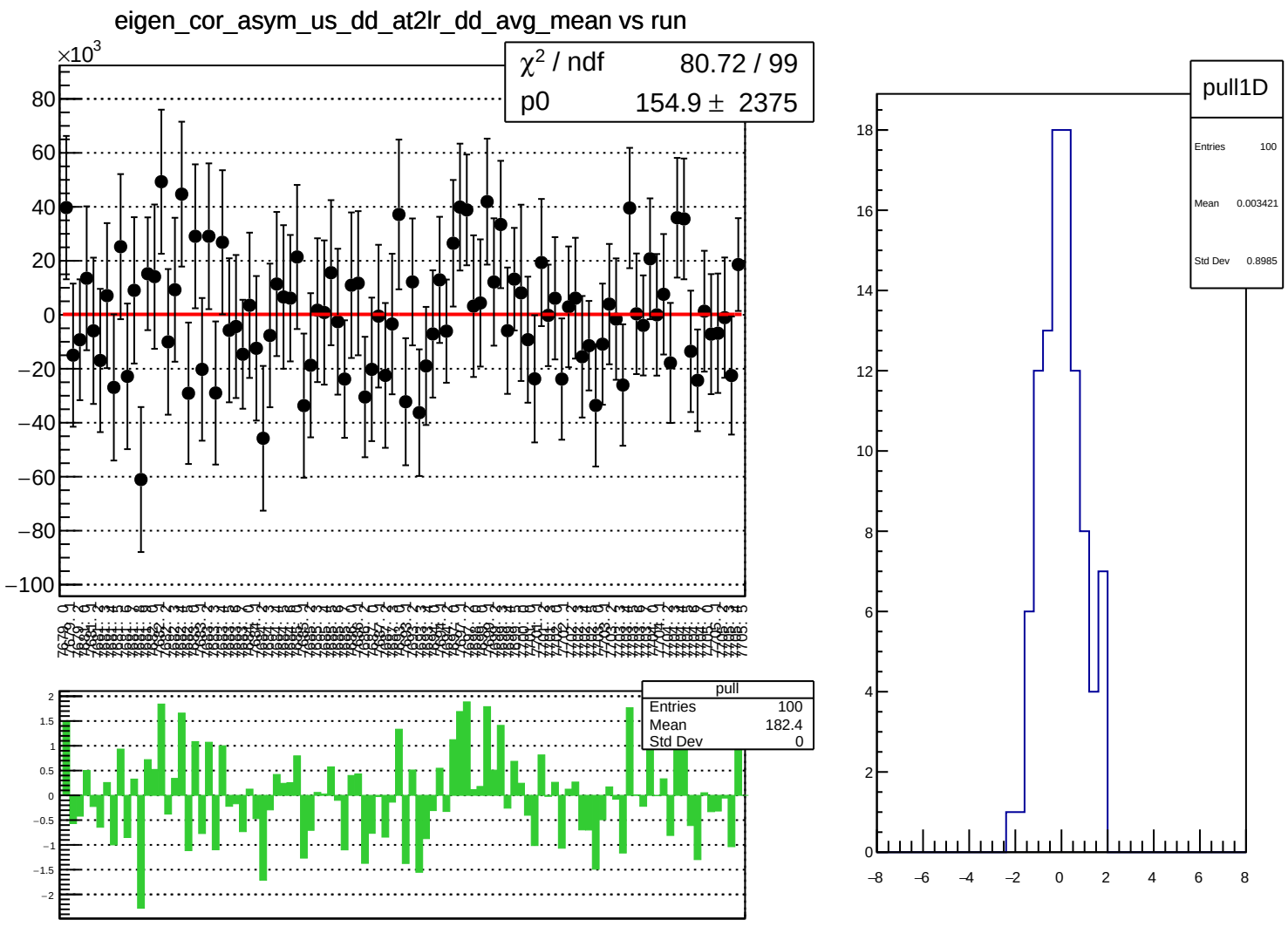

cor_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 80.72 / 99
p0 154.9 ± 2375
pull
Entries 100
Mean 182.4
Std Dev 0
pull1D
Entries 100
Mean 0.003421
Std Dev 0.8985

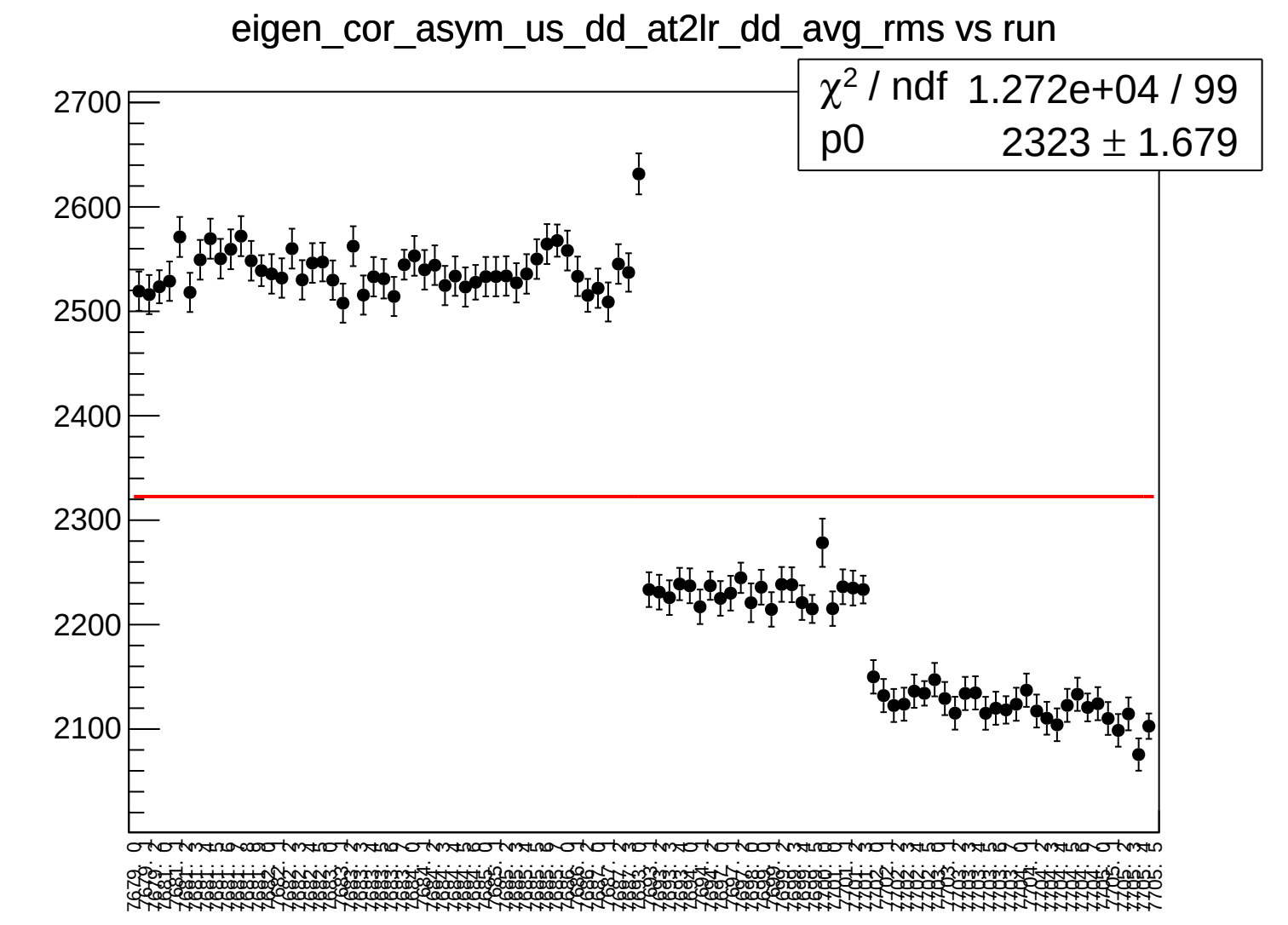

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1.272e+04 / 99
p0 2323 ± 1.679
2700
2600
2500
2400
2300
2200
2100

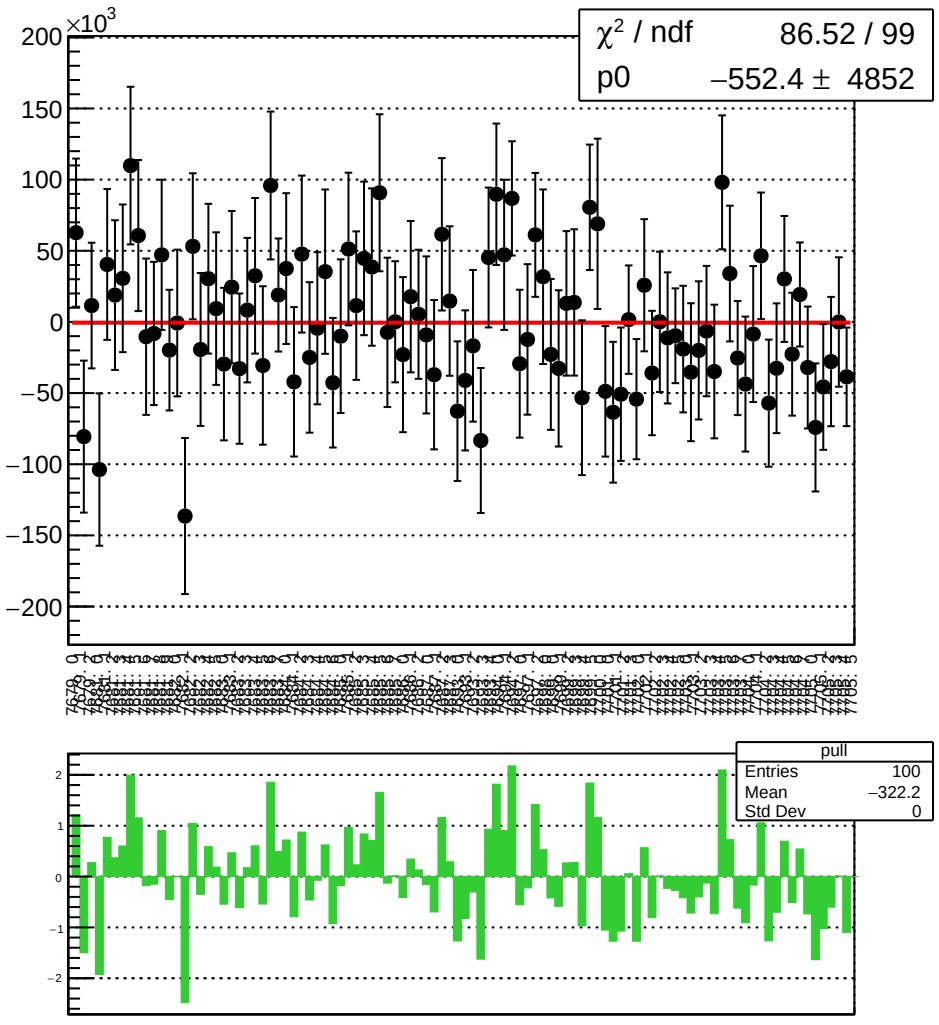

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 86.52 / 99
p0 −552.4 ± 4852
pull
Entries 100
Mean −322.2
Std Dev 0

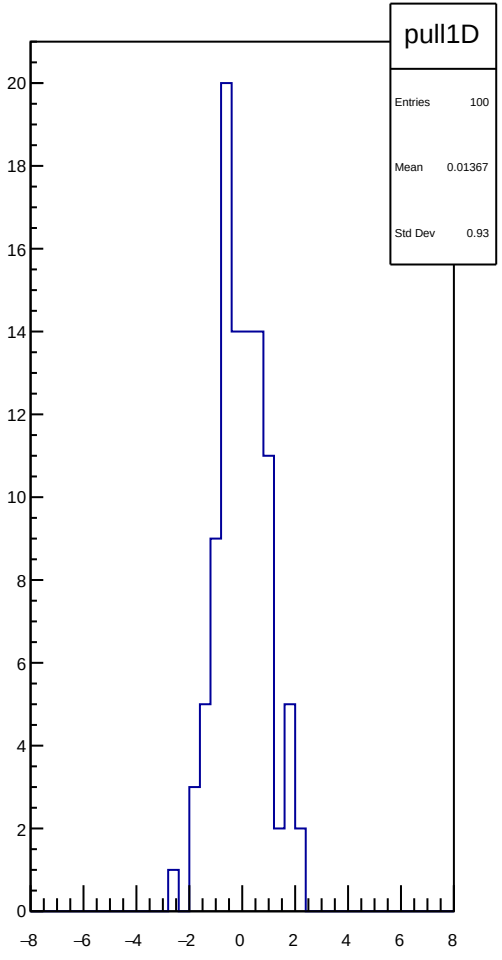

pull1D
Entries 100
Mean 0.01367
Std Dev 0.93

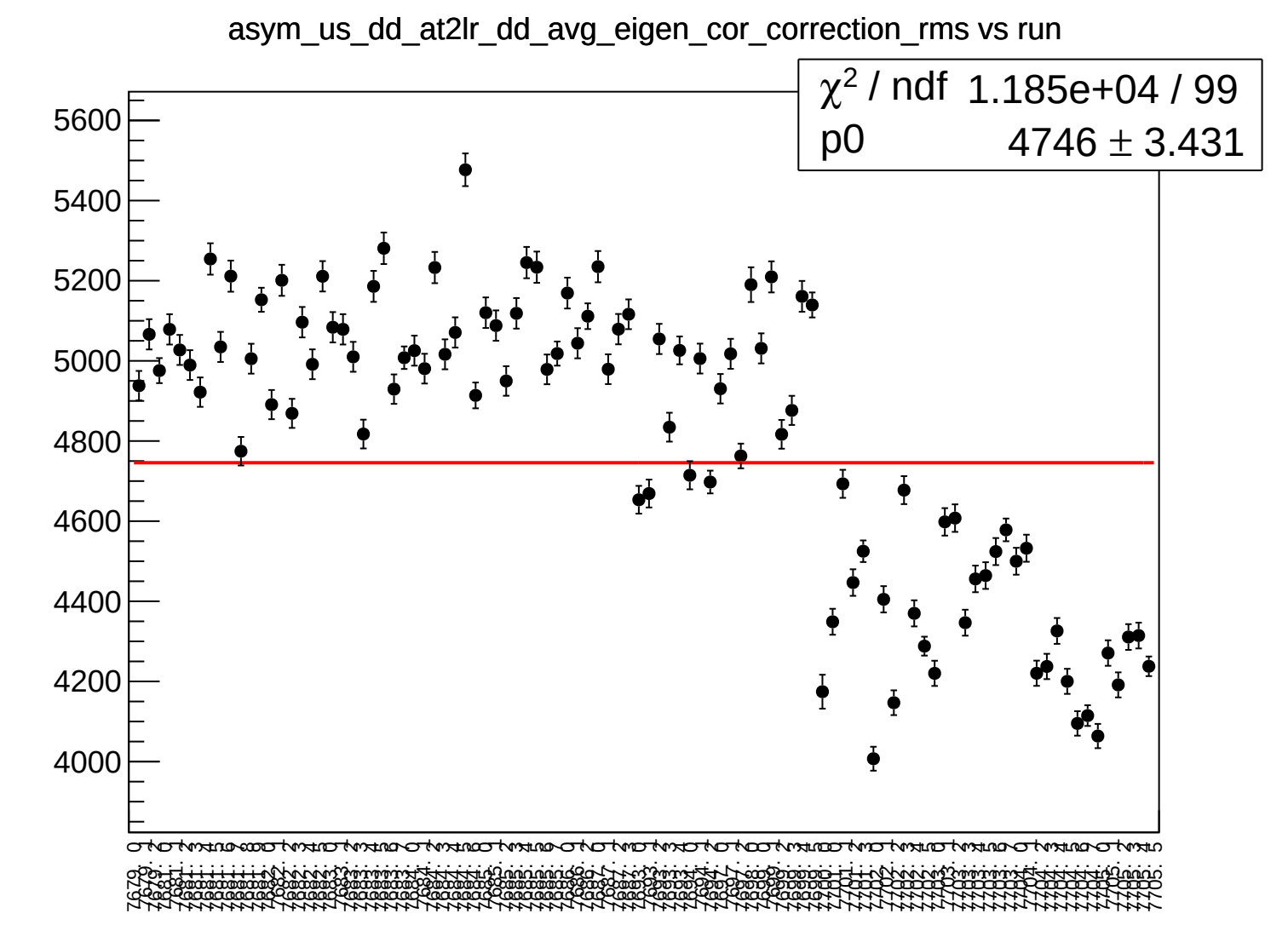

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ^2 / ndf 1.185e+04 / 99
p0 4746 ± 3.431
5600
5400
5200
5000
4800
4600
4400
4200
4000

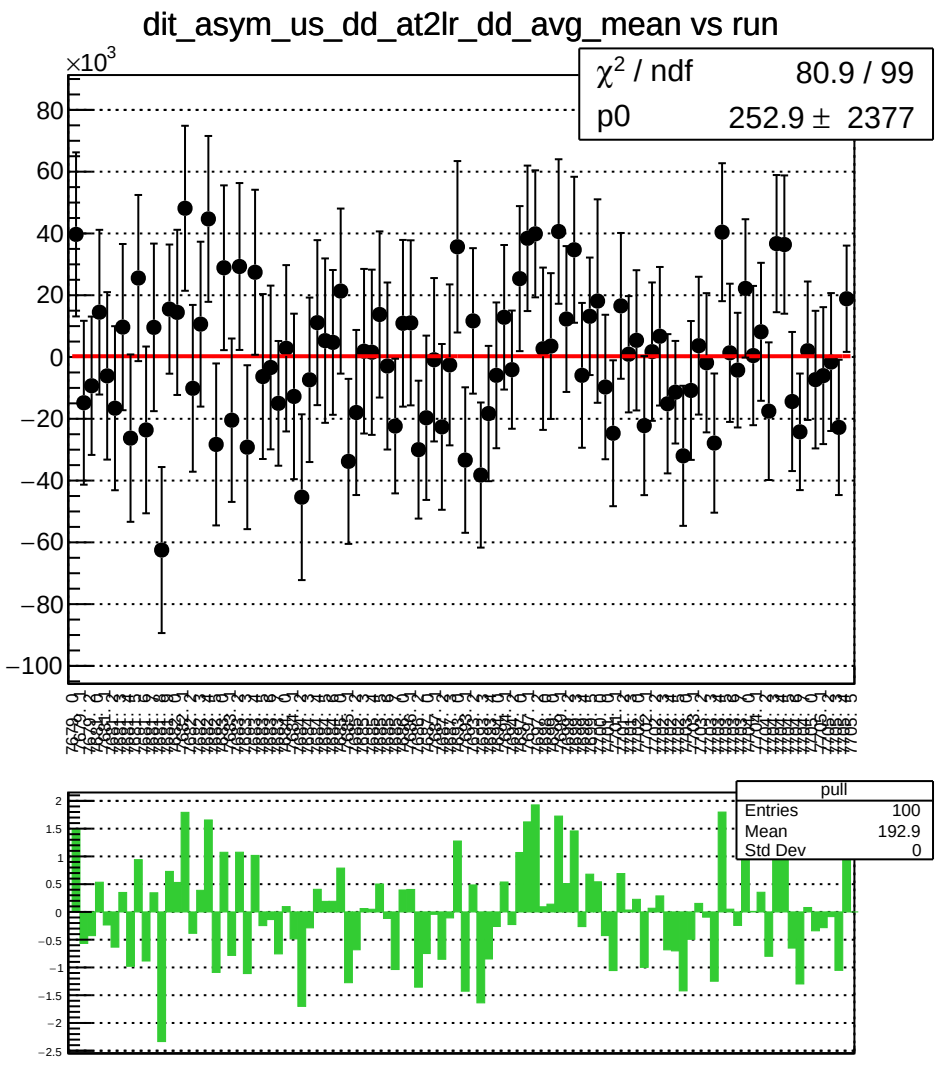

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 80.72 / 99
p0 154.9 ± 2375
pull
Entries 100
Mean 182.4
Std Dev 0
pull1D
Entries 100
Mean 0.003421
Std Dev 0.8985

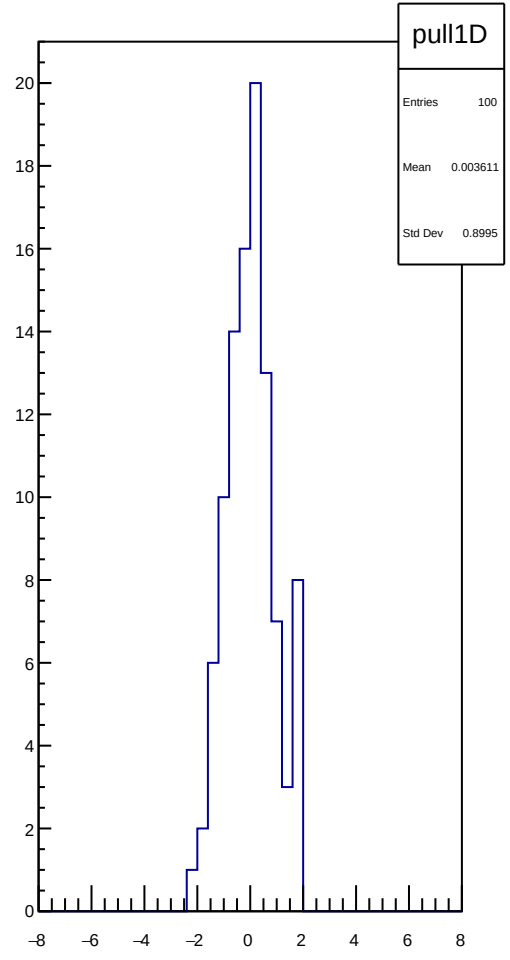

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1.272e+04 / 99
p0 2323 ± 1.679
2700
2600
2500
2400
2300
2200
2100

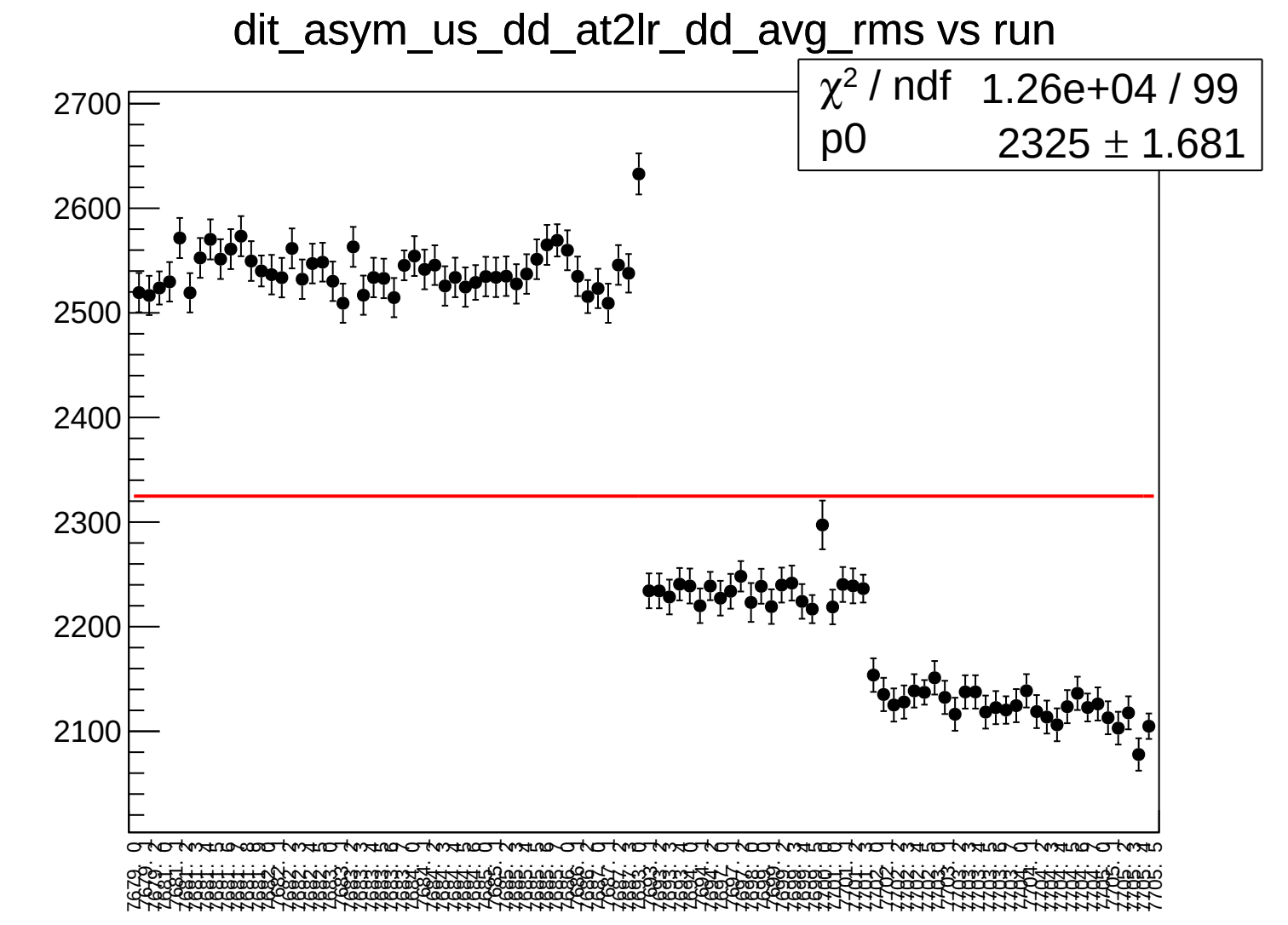

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 86.52 / 99
p0 −552.4 ± 4852
pull
Entries 100
Mean −322.2
Std Dev 0

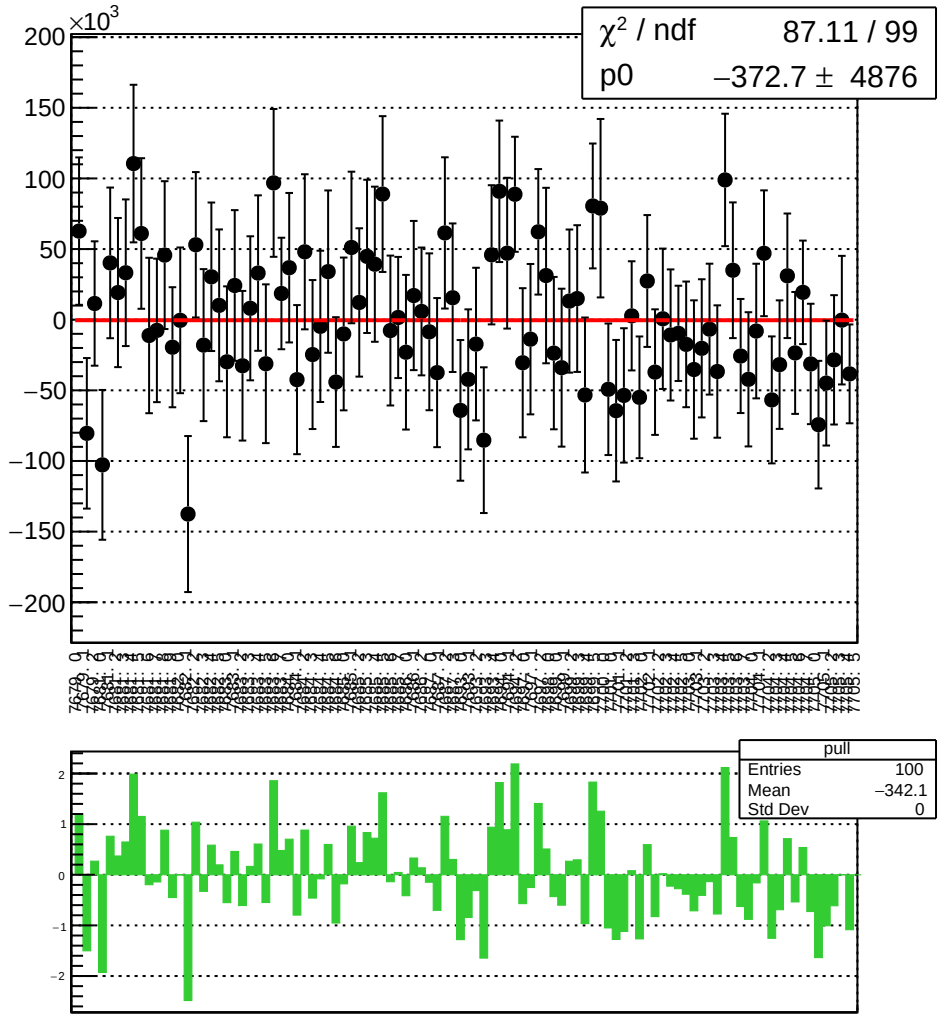

pull1D
Entries 100
Mean 0.01367
Std Dev 0.93

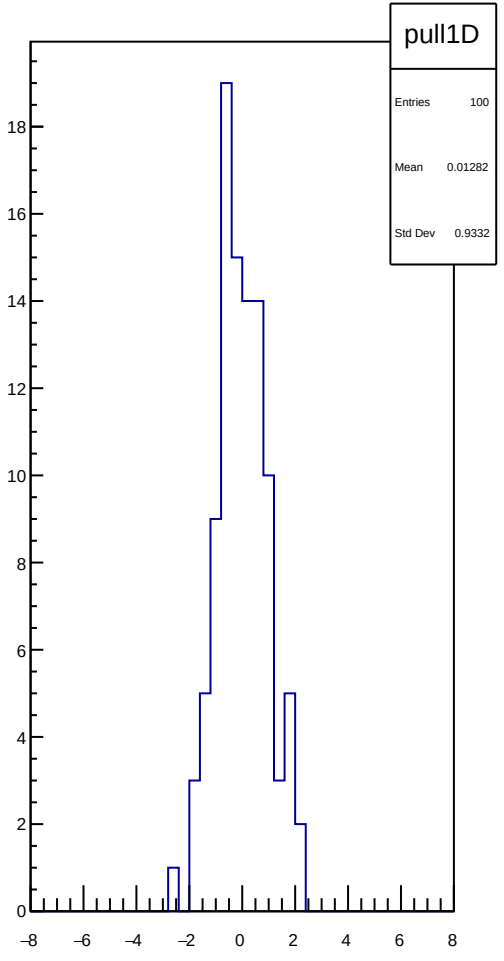

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.185e+04 / 99
p0 4746 ± 3.431
5600
5400
5200
5000
4800
4600
4400
4200
4000

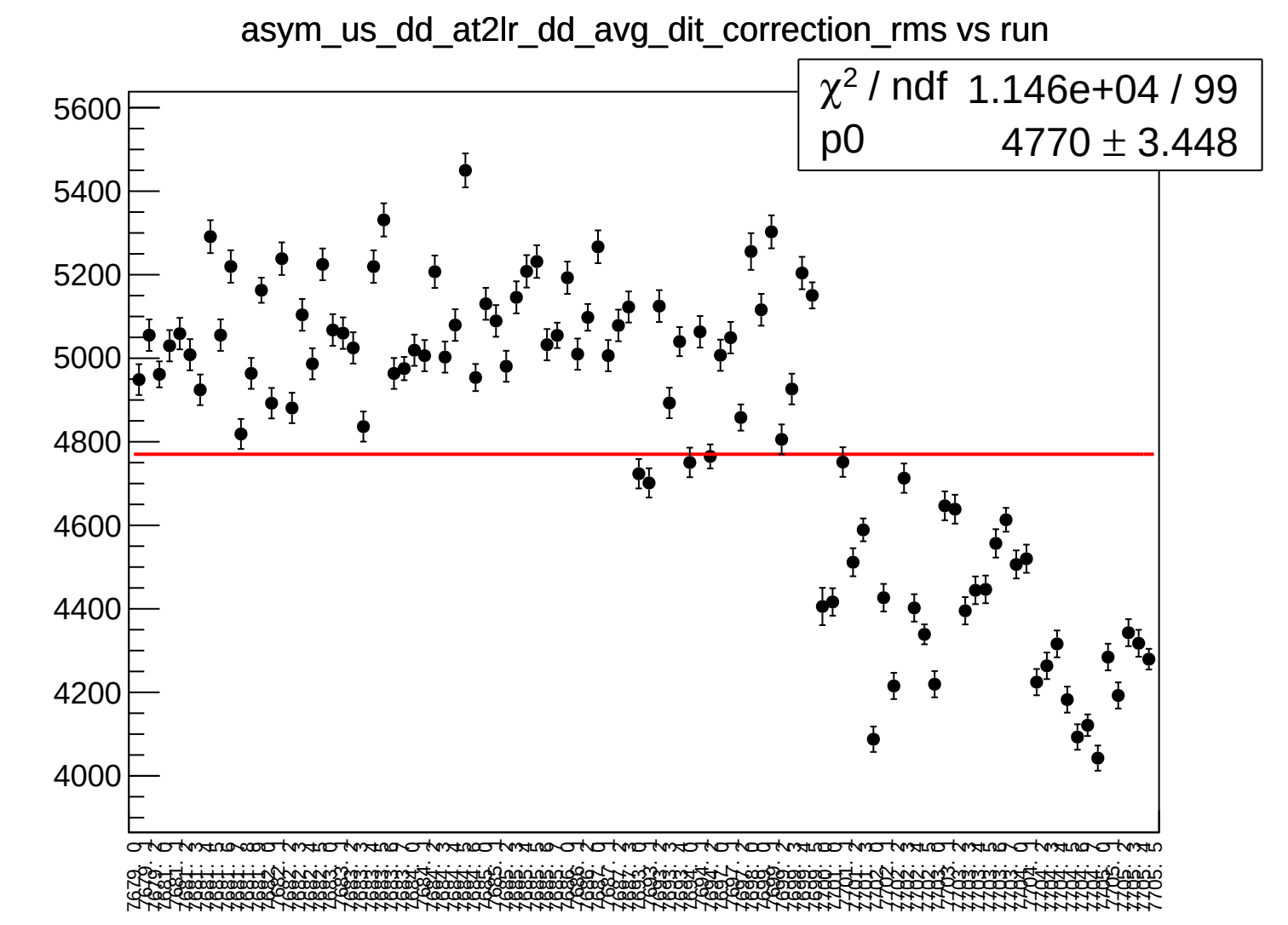

dit_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 80.9 / 99
p0 252.9 ± 2377
pull
Entries 100
Mean 192.9
Std Dev 0

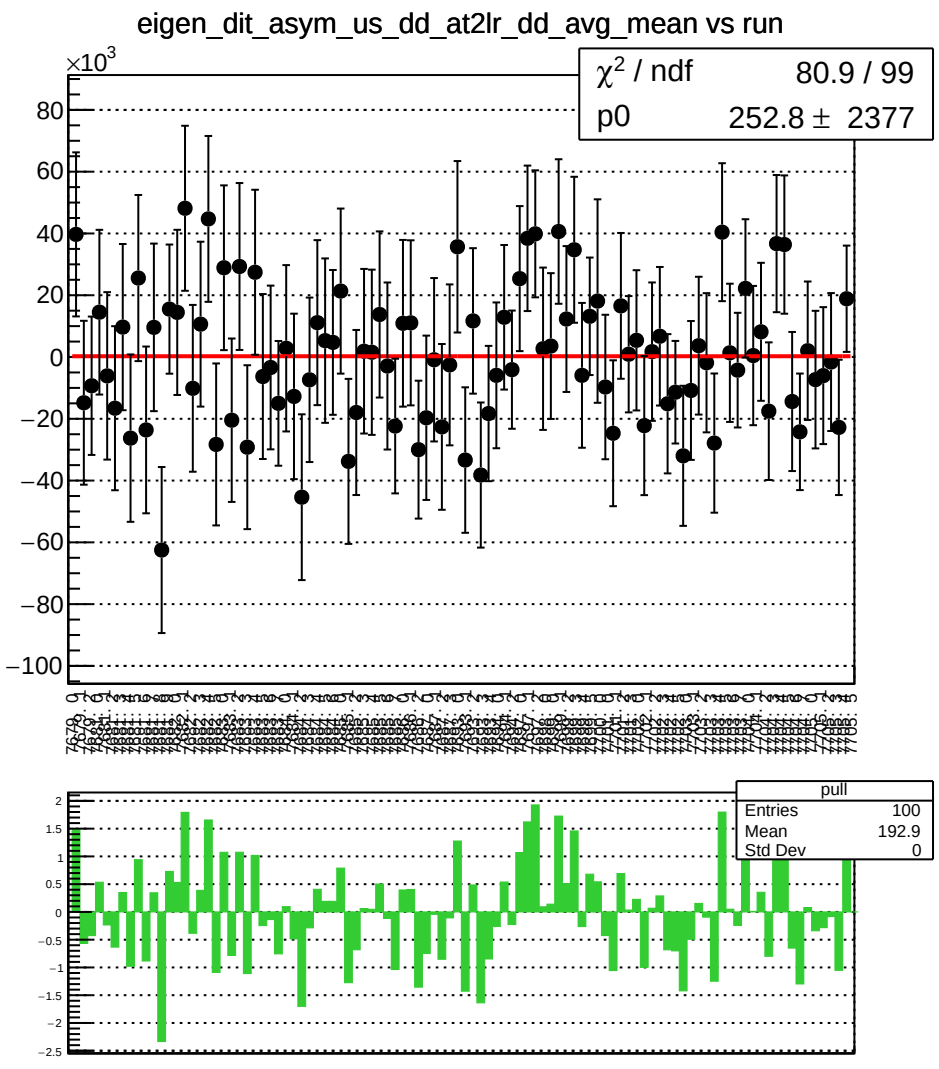

pull1D
Entries 100
Mean 0.003611
Std Dev 0.8995

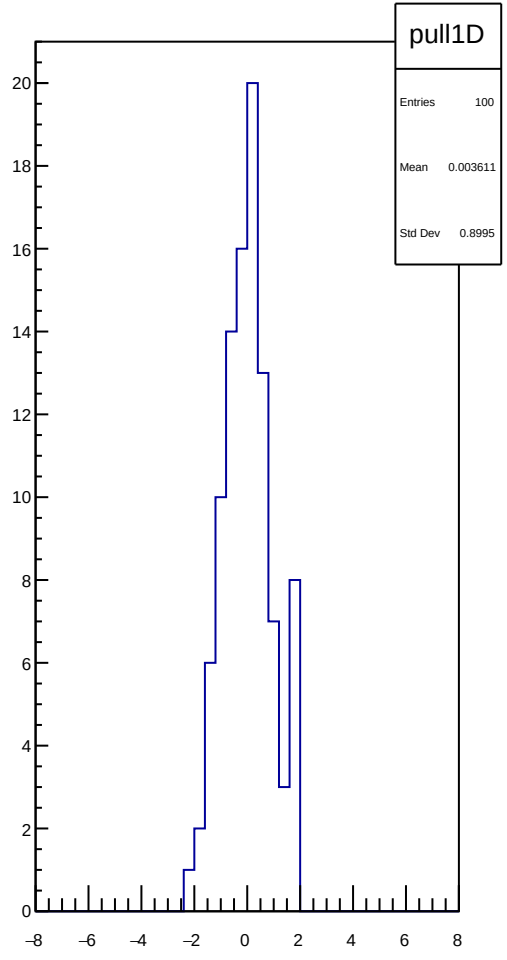

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1.26e+04 / 99
p0 2325 ± 1.681
2700
2600
2500
2400
2300
2200
2100

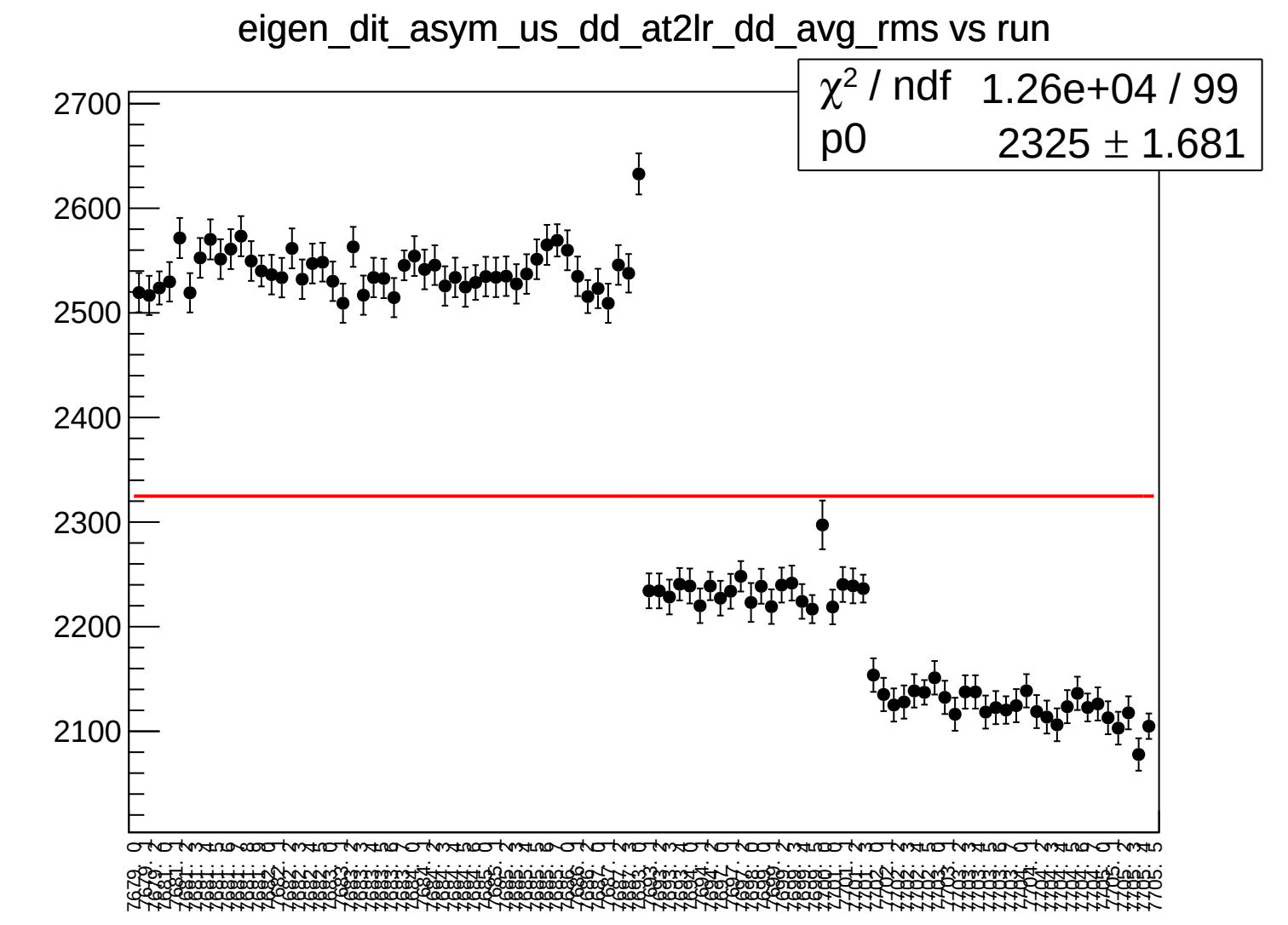

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 87.11 / 99
p0 −372.7 ± 4876
pull
Entries 100
Mean −342.1
Std Dev 0

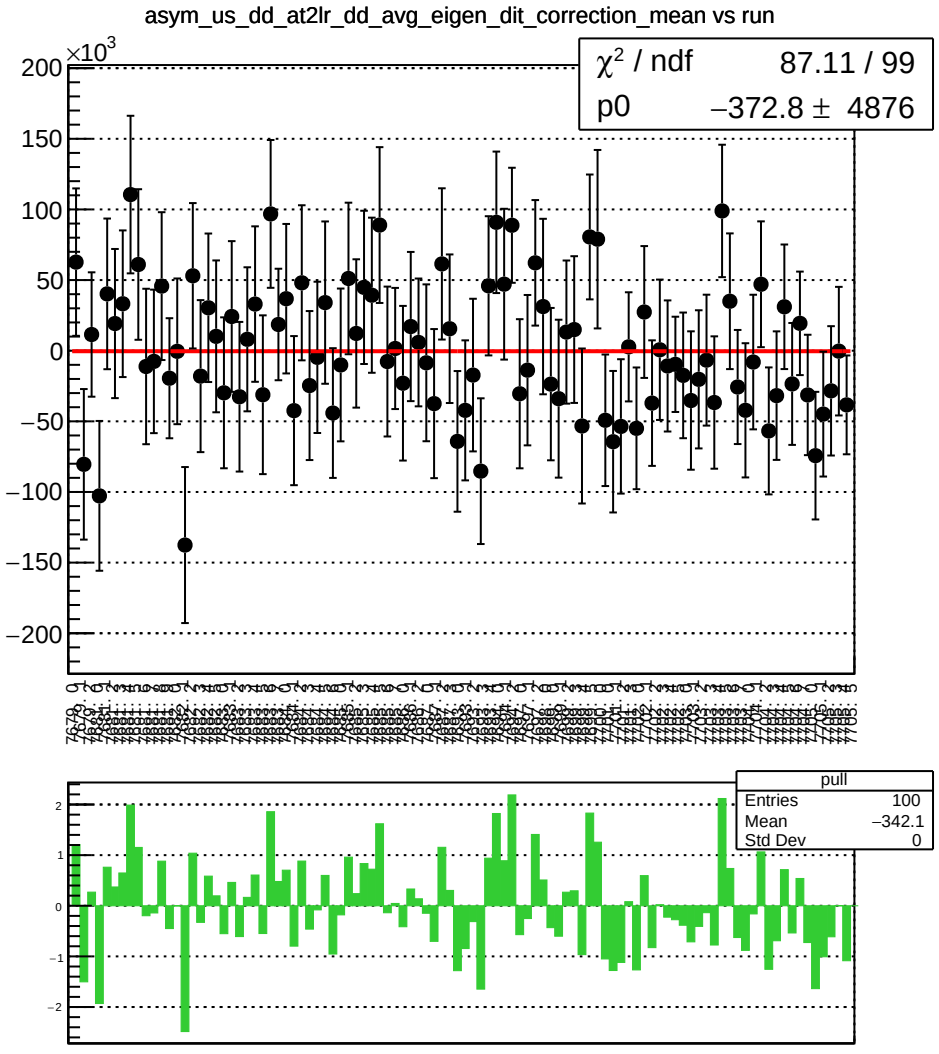

pull1D
Entries 100
Mean 0.01282
Std Dev 0.9332

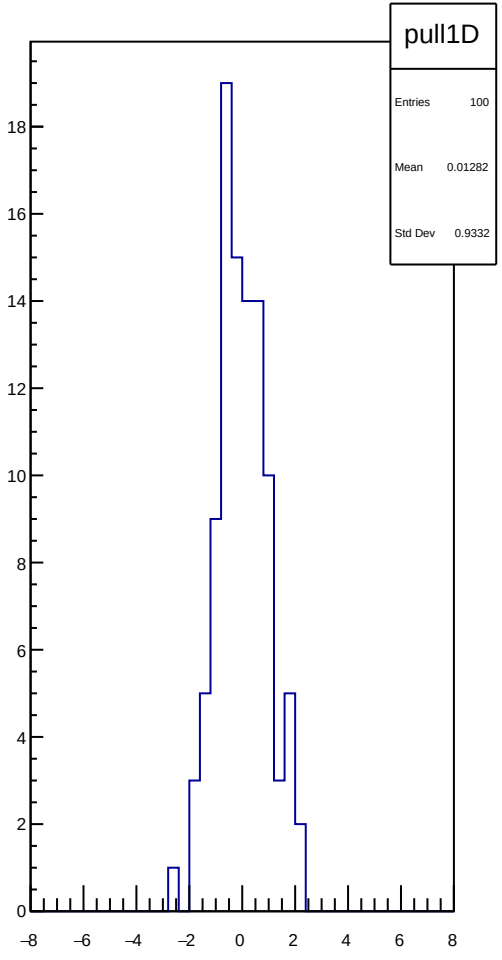

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ^2 / ndf 1.146e+04 / 99
p0 4770 ± 3.448
5600
5400
5200
5000
4800
4600
4400
4200
4000

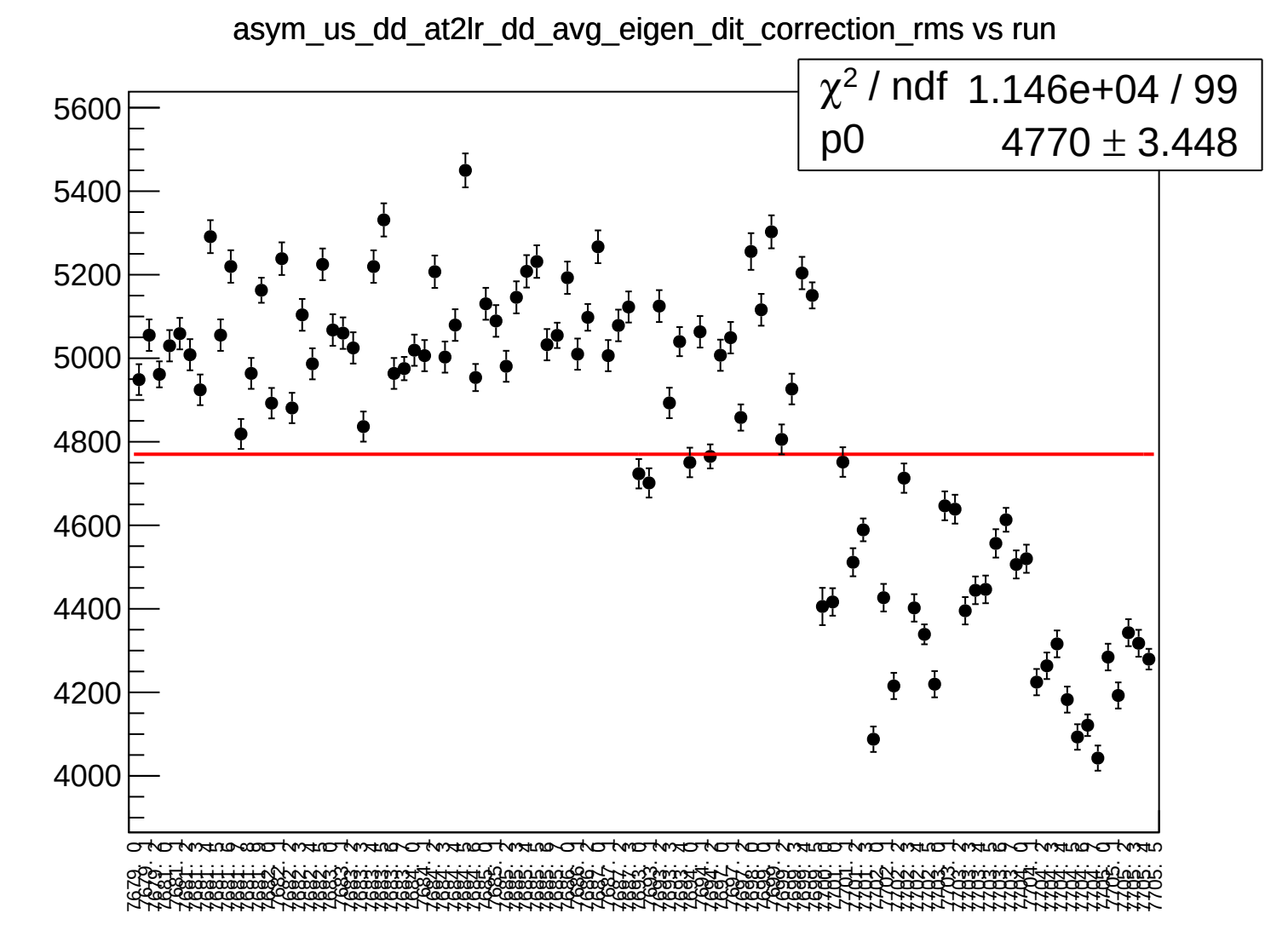

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 80.9 / 99
p0 252.8 ± 2377
×10³
pull
Entries 100
Mean 192.9
Std Dev 0

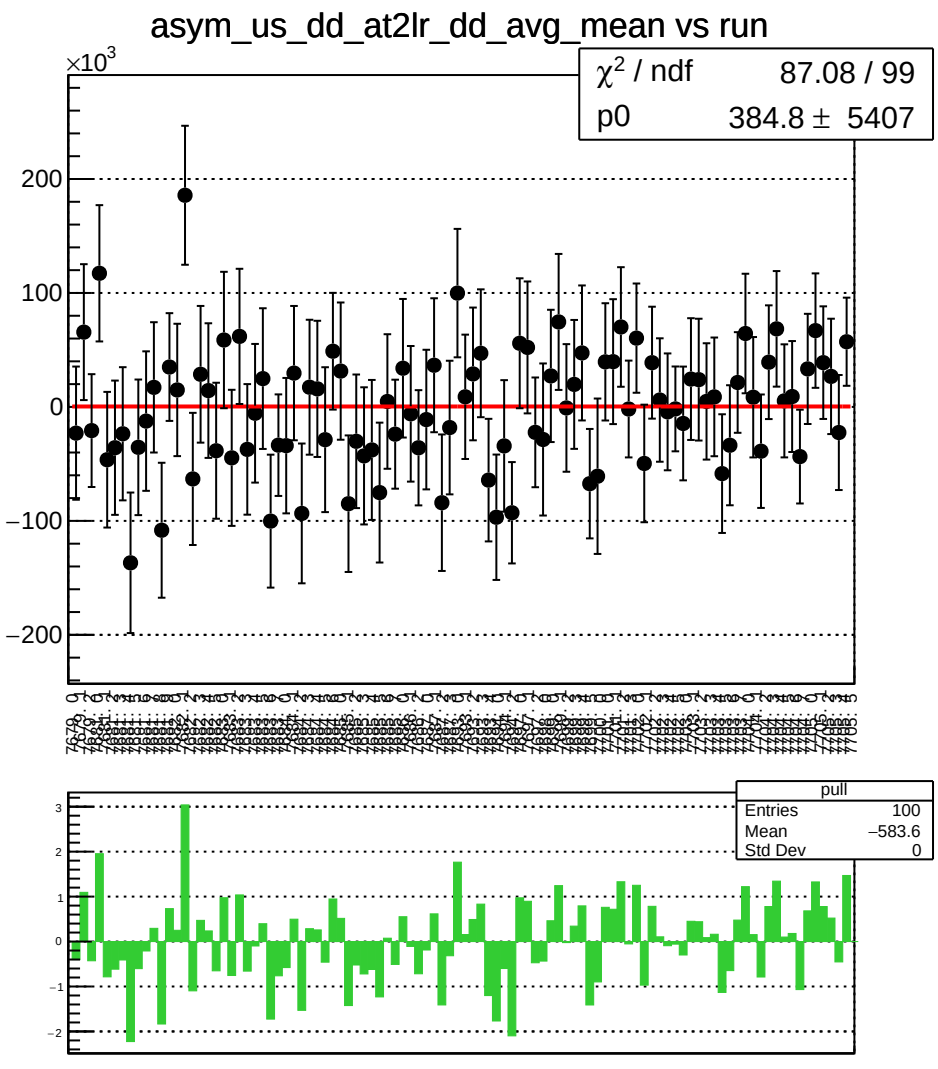

pull1D
Entries 100
Mean 0.003611
Std Dev 0.8995

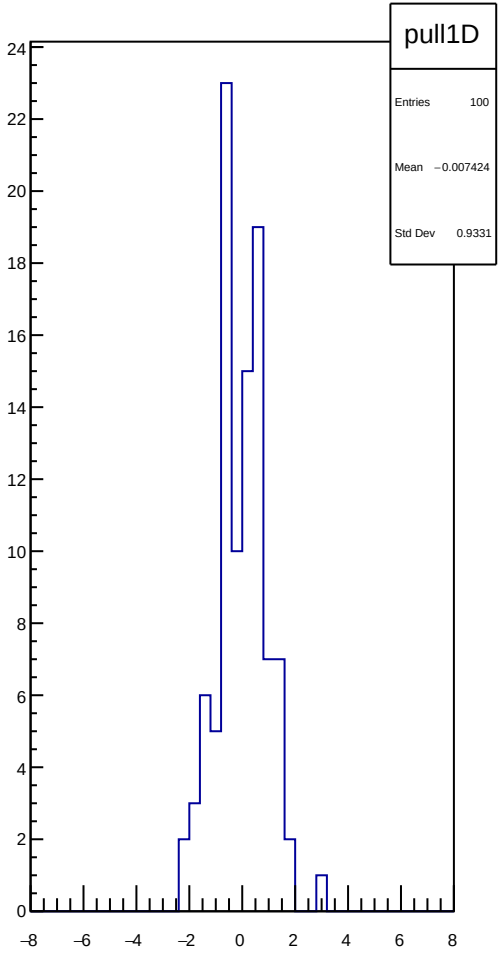

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1.26e+04 / 99
p0 2325 ± 1.681
2700
2600
2500
2400
2300
2200
2100

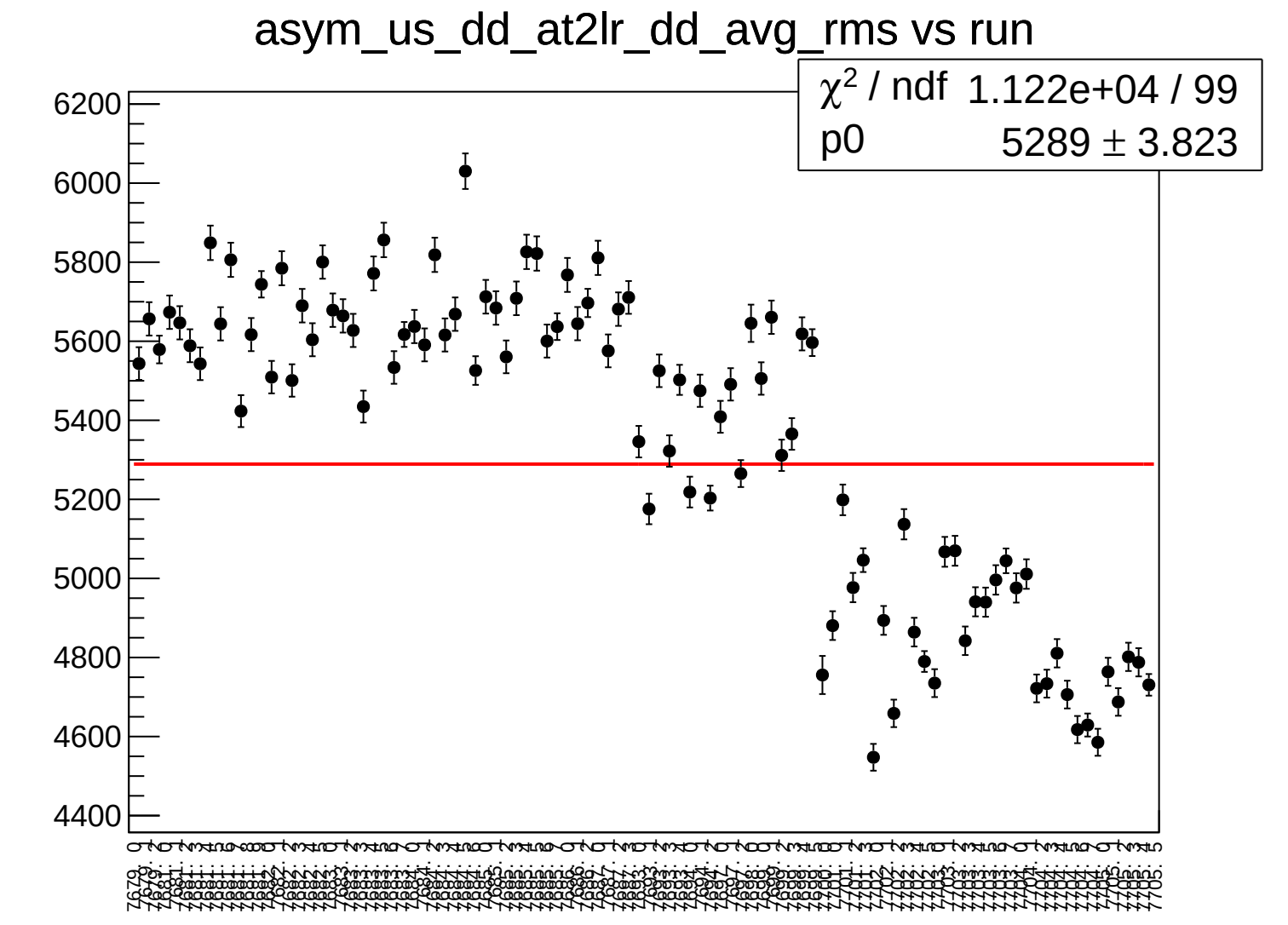

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 87.11 / 99
p0 −372.8 ± 4876
pull
Entries 100
Mean −342.1
Std Dev 0

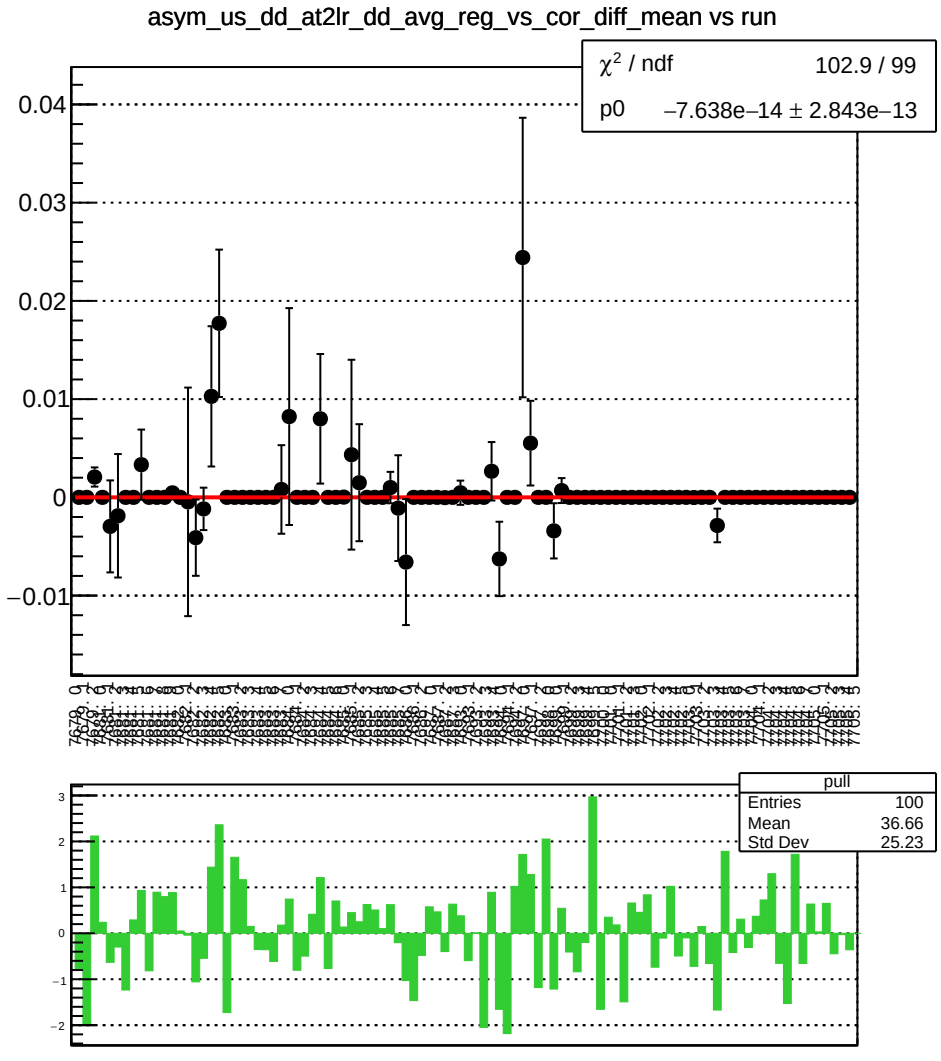

pull1D
Entries 100
Mean 0.01282
Std Dev 0.9332

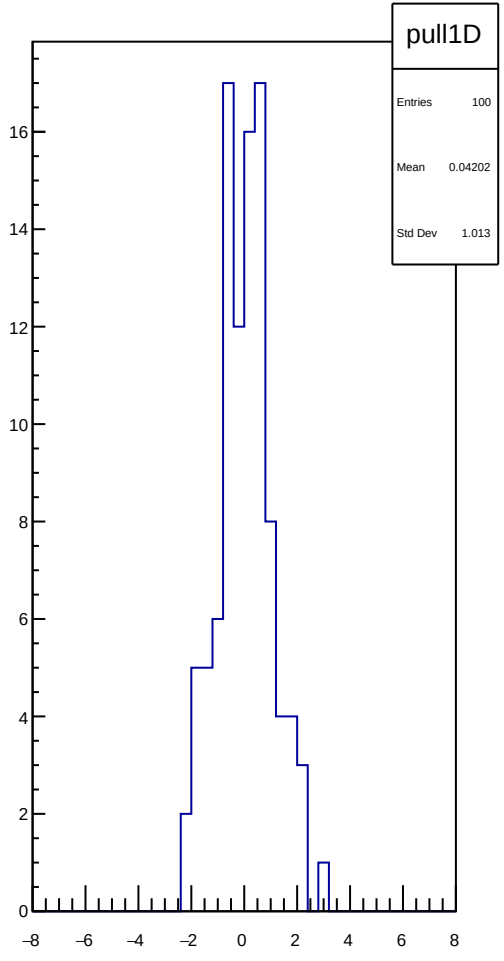

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 1.146e+04 / 99
p0 4770 ± 3.448
5600
5400
5200
5000
4800
4600
4400
4200
4000

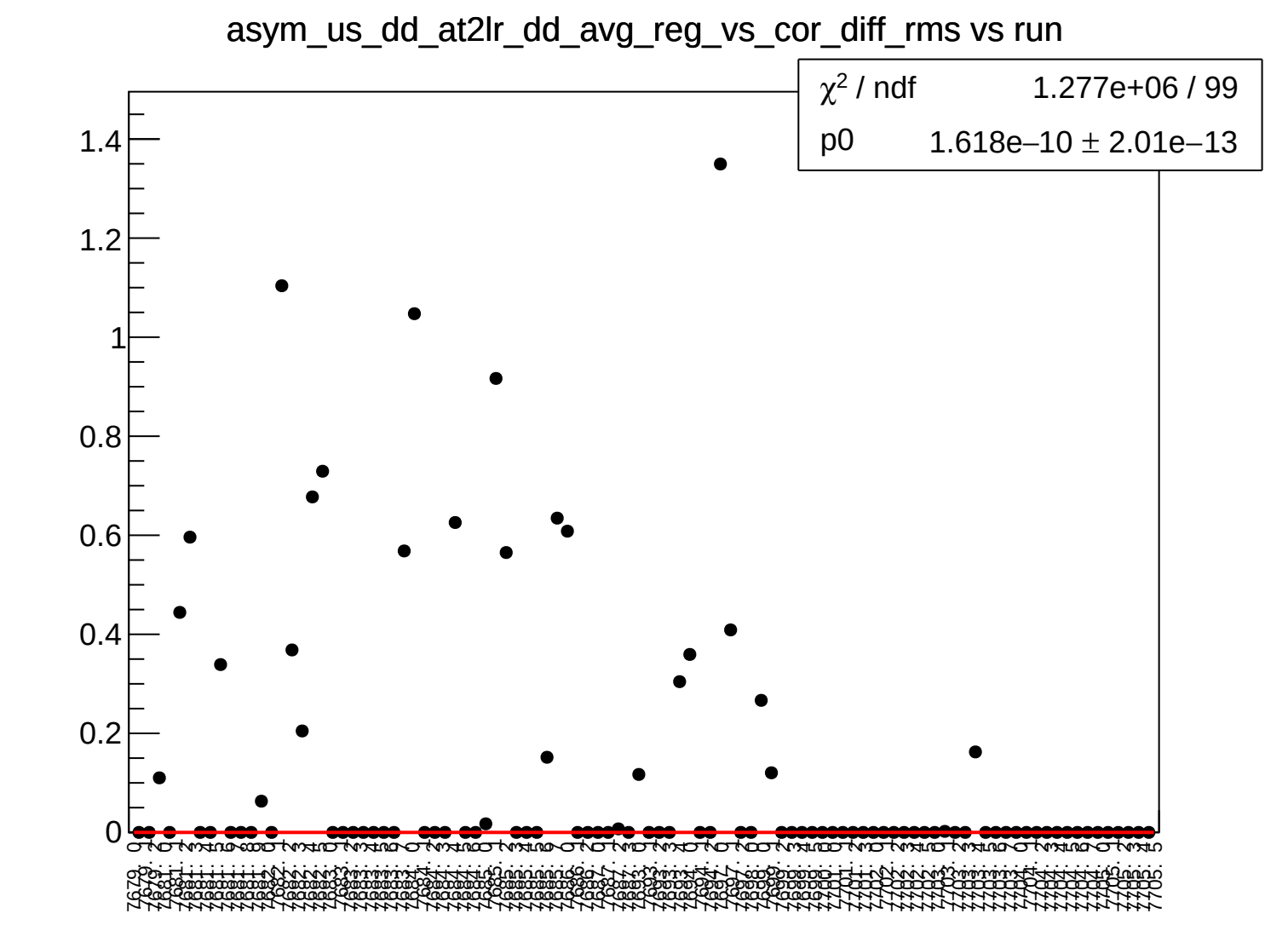

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 87.08 / 99
p0 384.8 ± 5407
200
100
0
−100
−200
pull
Entries 100
Mean −583.6
Std Dev 0
3
2
1
0
−1
−2

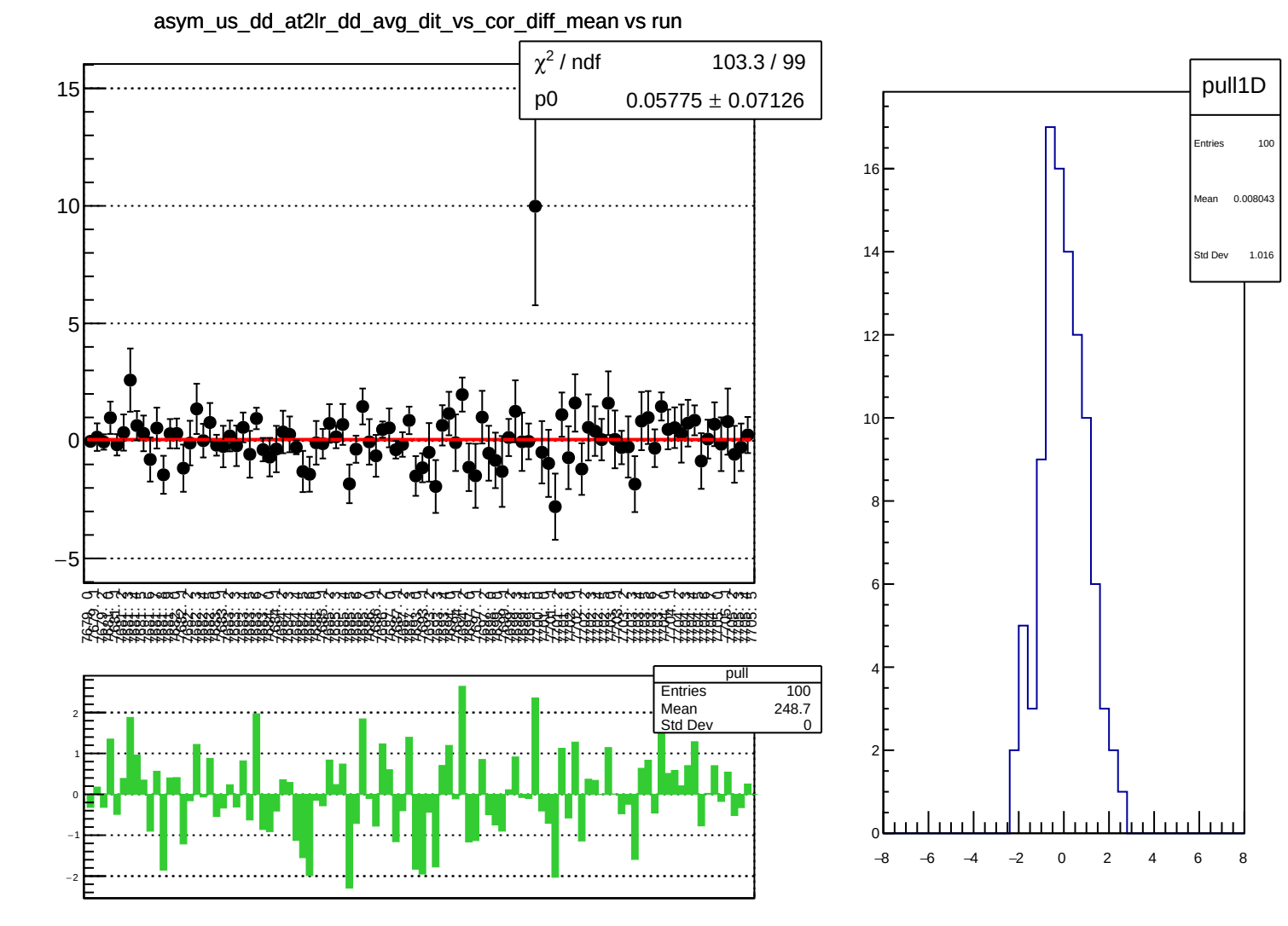

pull1D
Entries 100
Mean −0.007424
Std Dev 0.9331
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

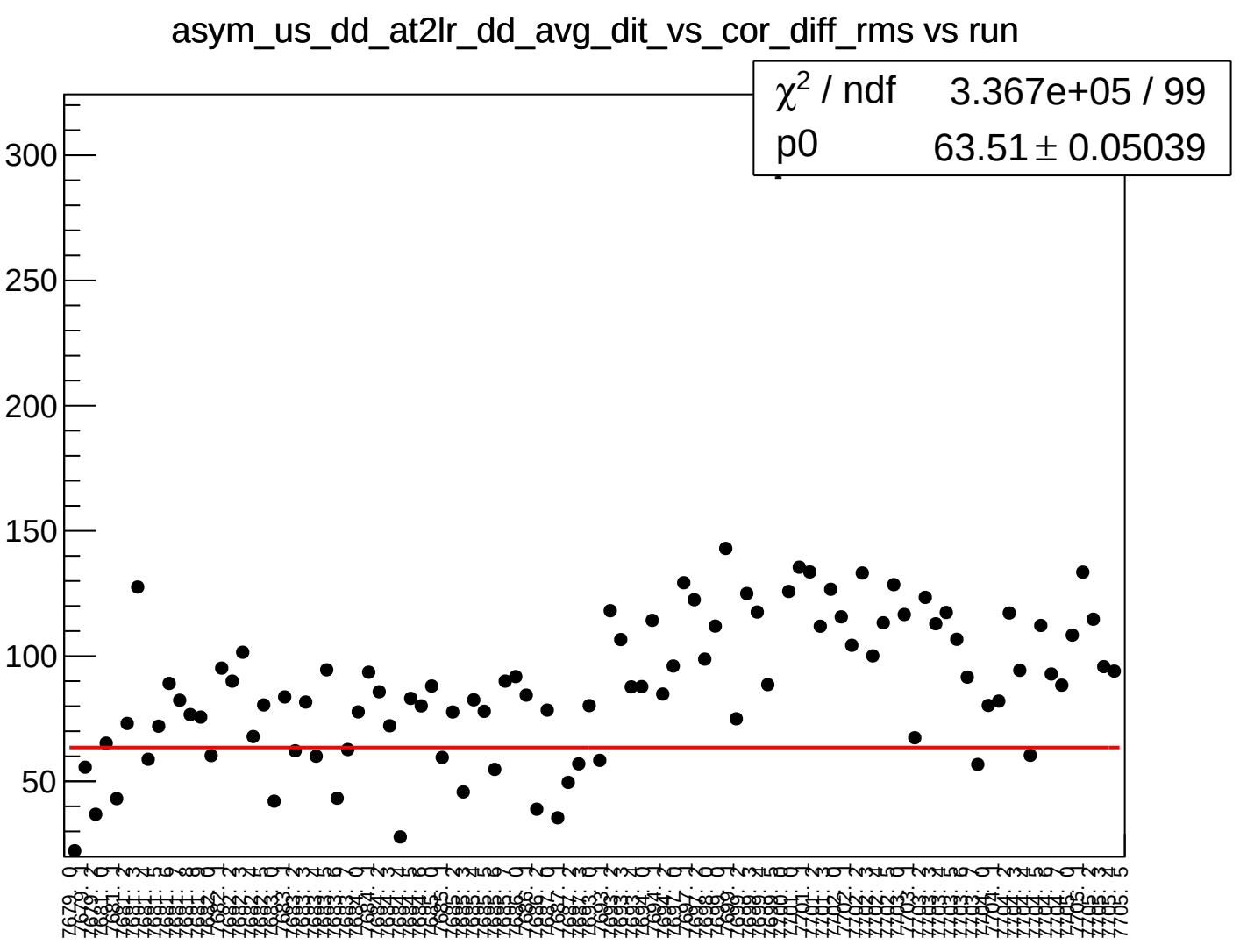

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1.122e+04 / 99
p0 5289 ± 3.823
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400

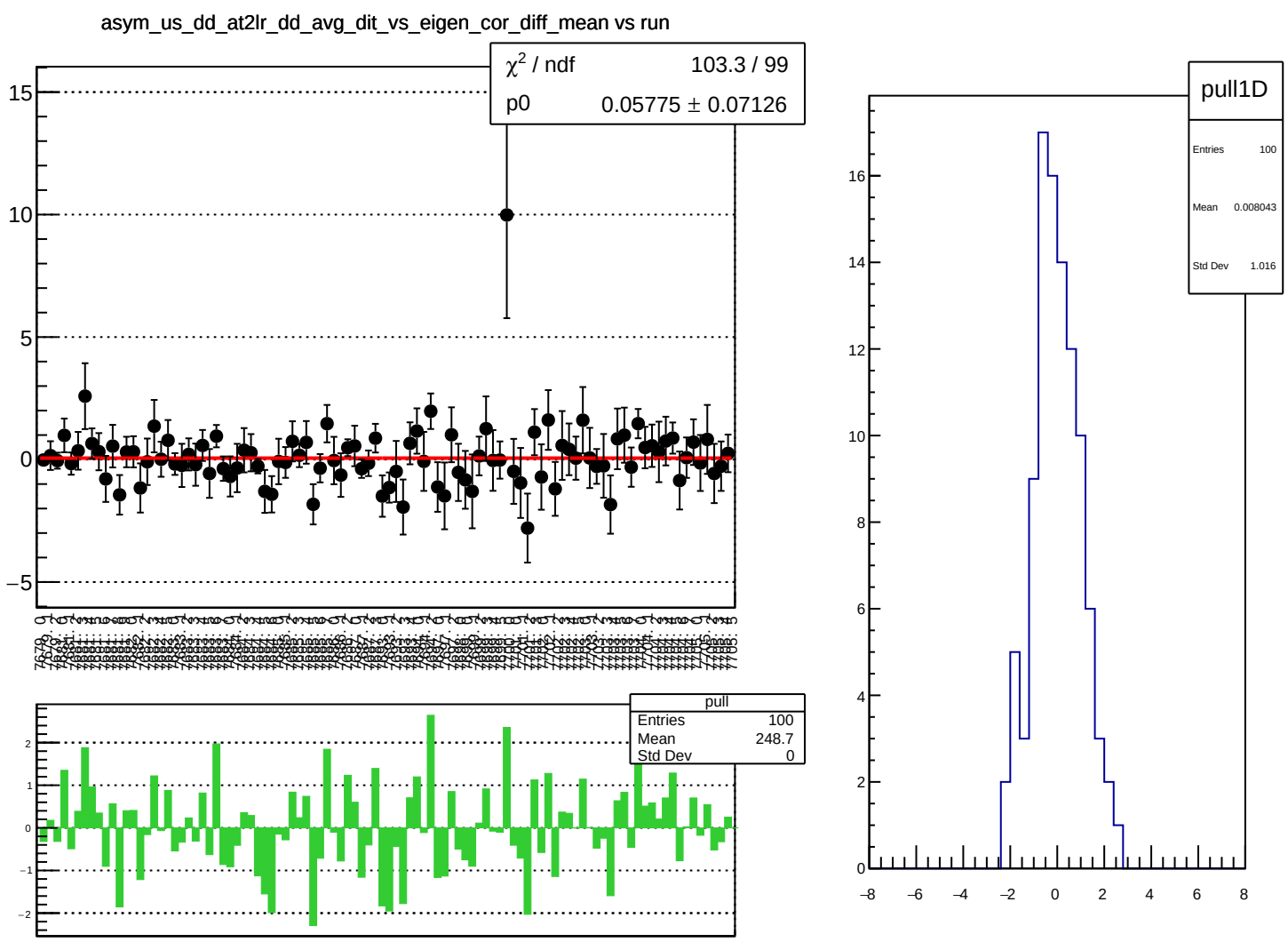

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 102.9 / 99
p0 −7.638e−14 ± 2.843e−13
0.04
0.03
0.02
0.01
0
−0.01
pull
Entries 100
Mean 36.66
Std Dev 25.23
3
2
1
0
−1
−2

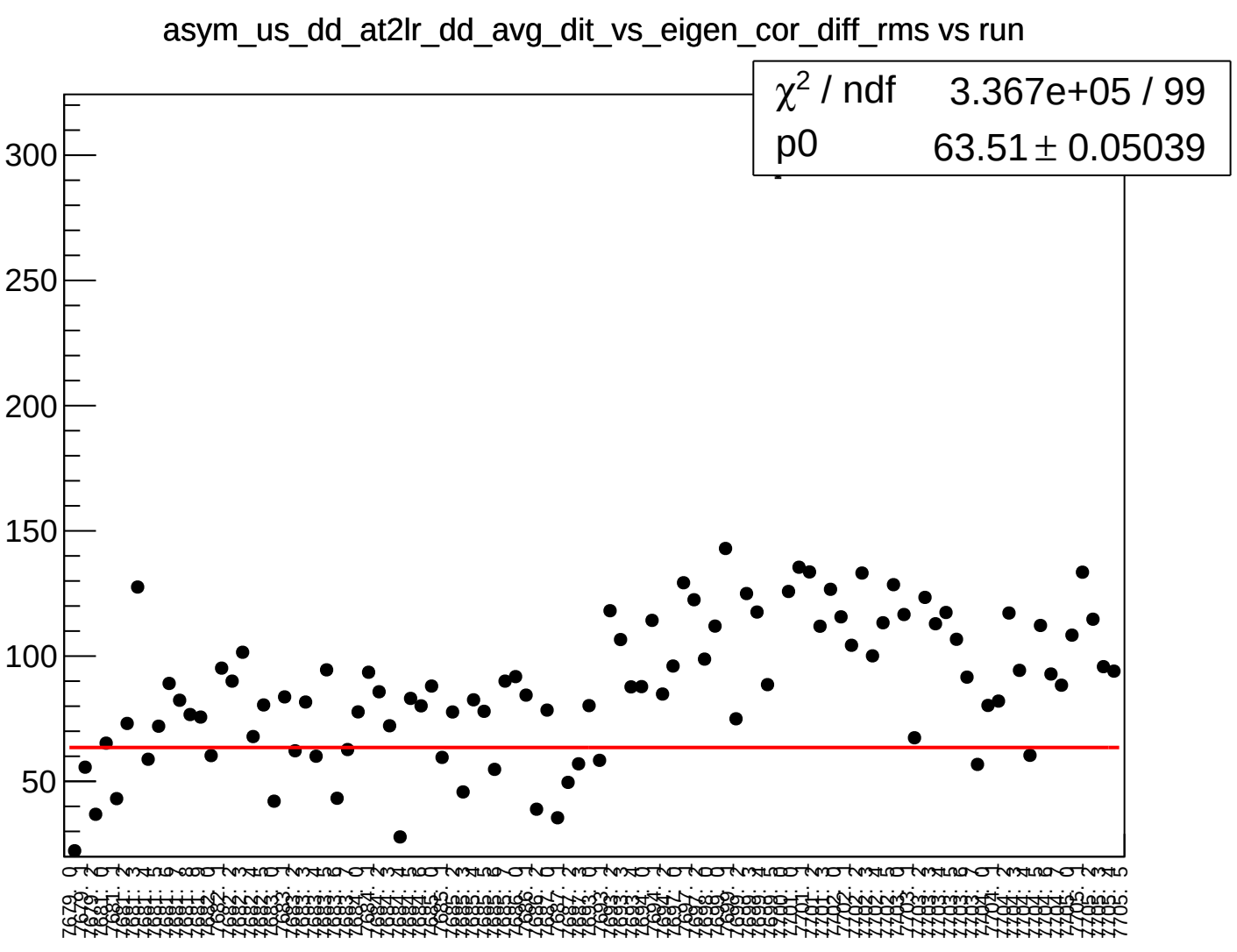

pull1D
Entries 100
Mean 0.04202
Std Dev 1.013
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

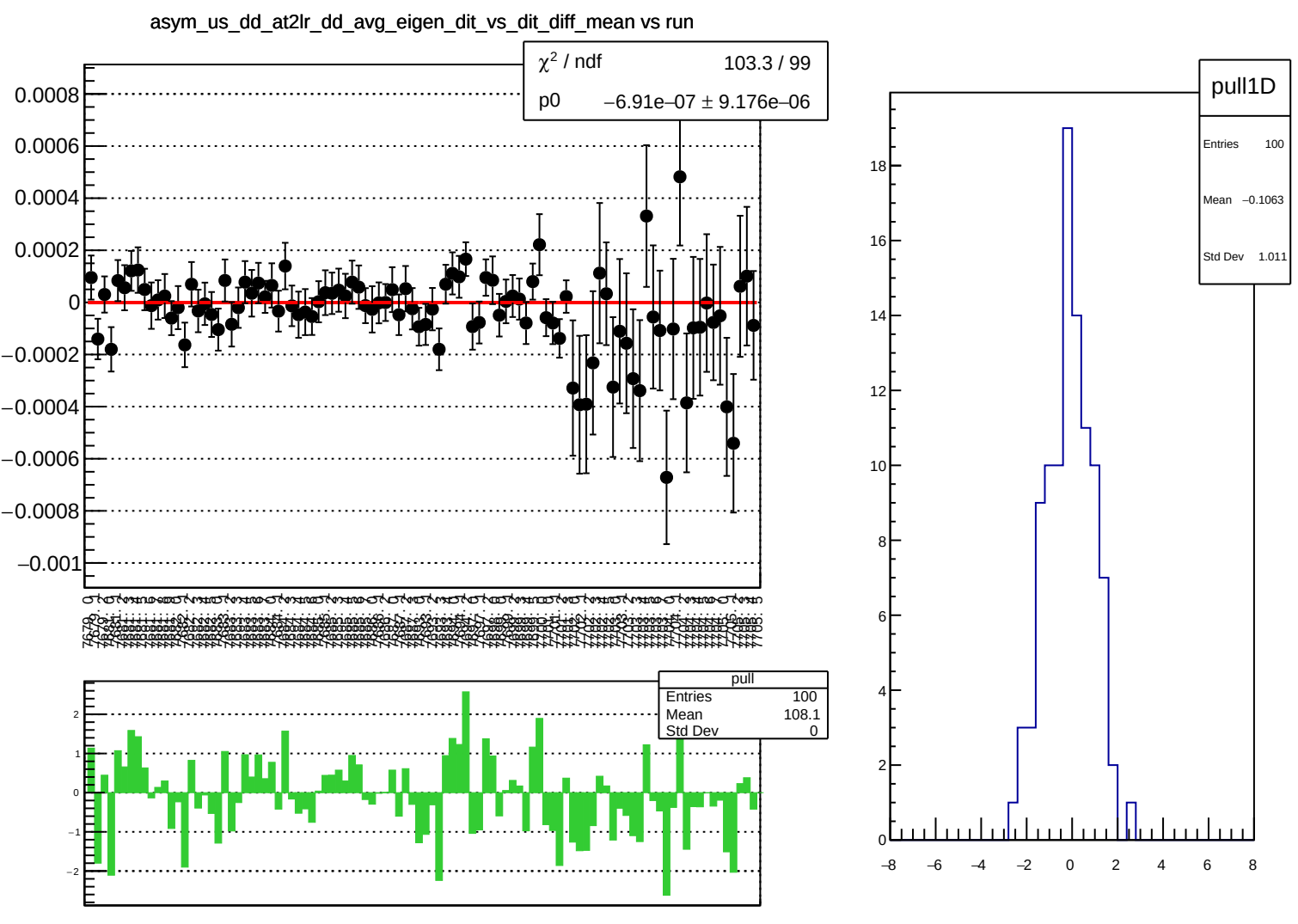

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.277e+06 / 99
p0 1.618e−10 ± 2.01e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

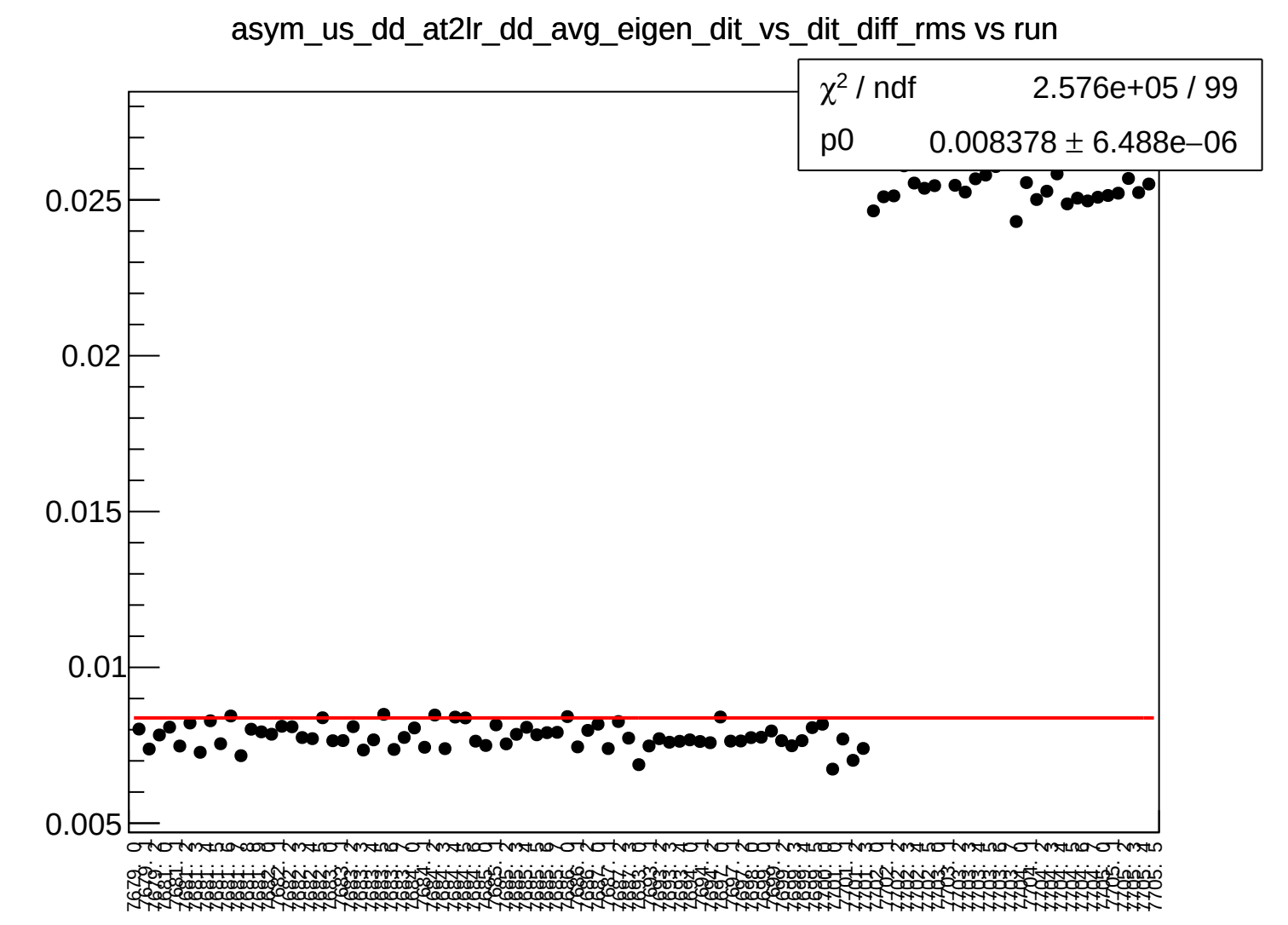

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 103.3 / 99
p0 0.05775 ± 0.07126
15
10
5
0
−5
pull
Entries 100
Mean 248.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.008043
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

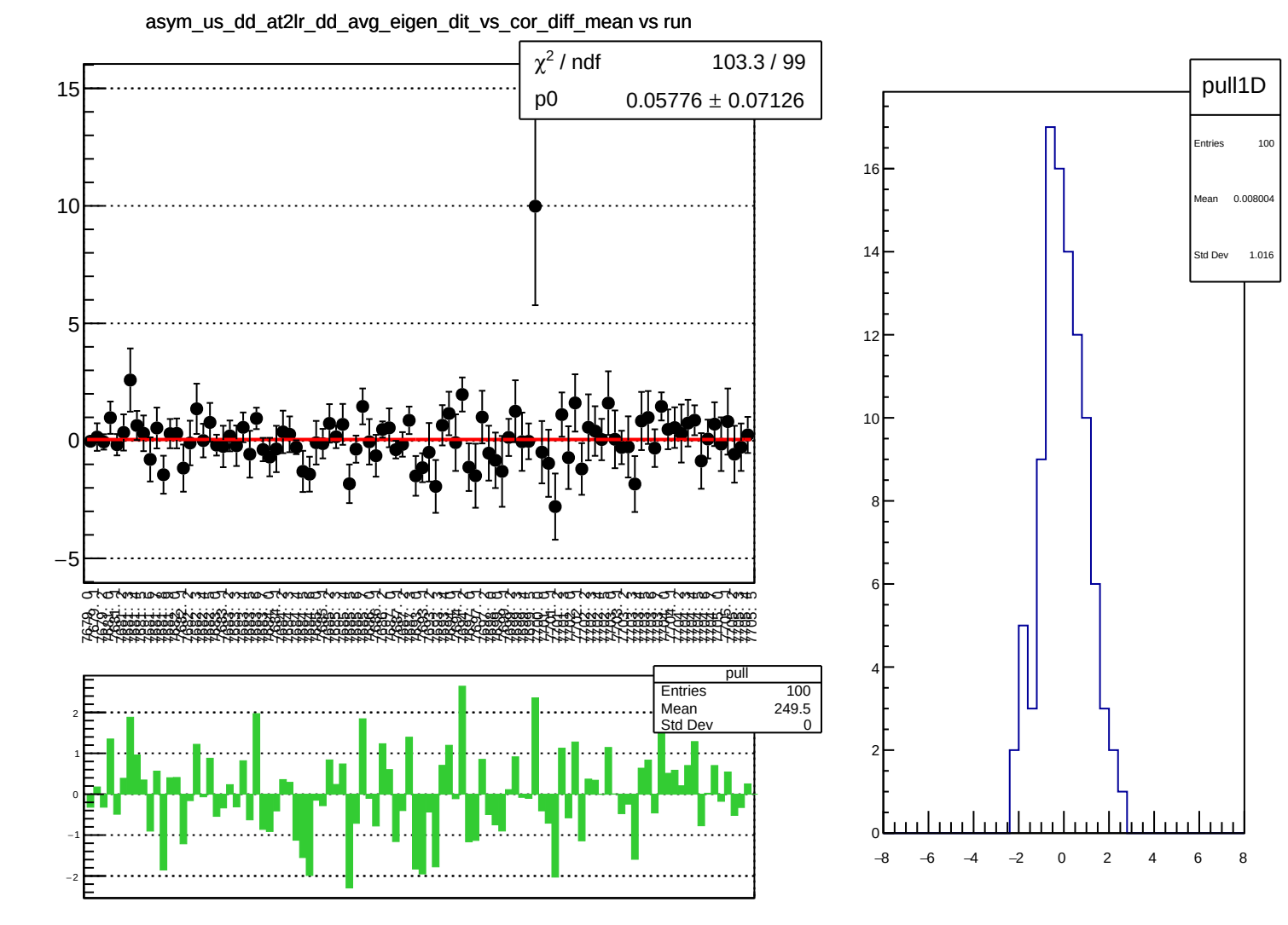

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.367e+05 / 99
p0 63.51 ± 0.05039
300
250
200
150
100
50

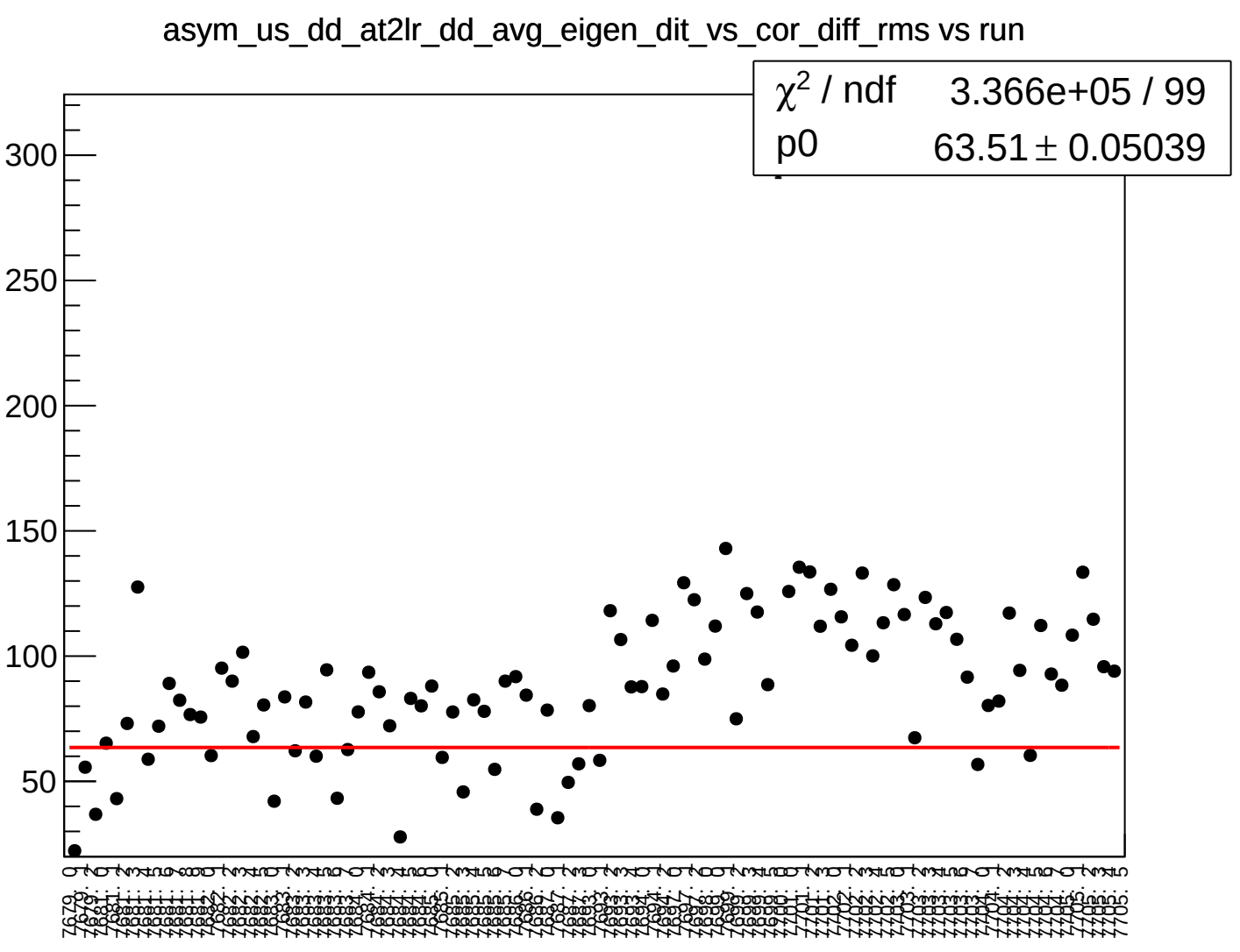

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.3 / 99
p0 0.05775 ± 0.07126
15
10
5
0
−5
pull
Entries 100
Mean 248.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.008043
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

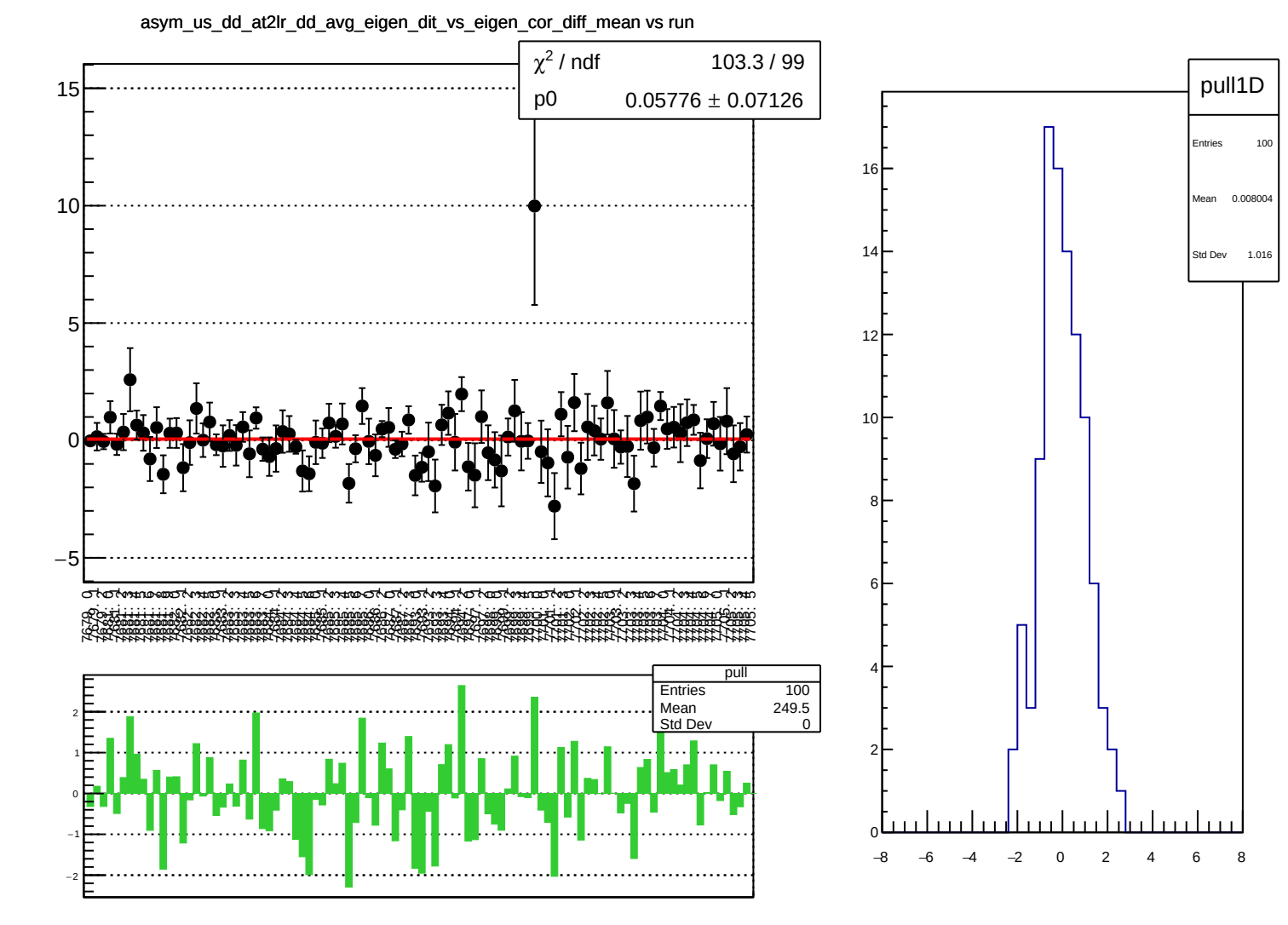

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.367e+05 / 99
p0 63.51 ± 0.05039
300
250
200
150
100
50

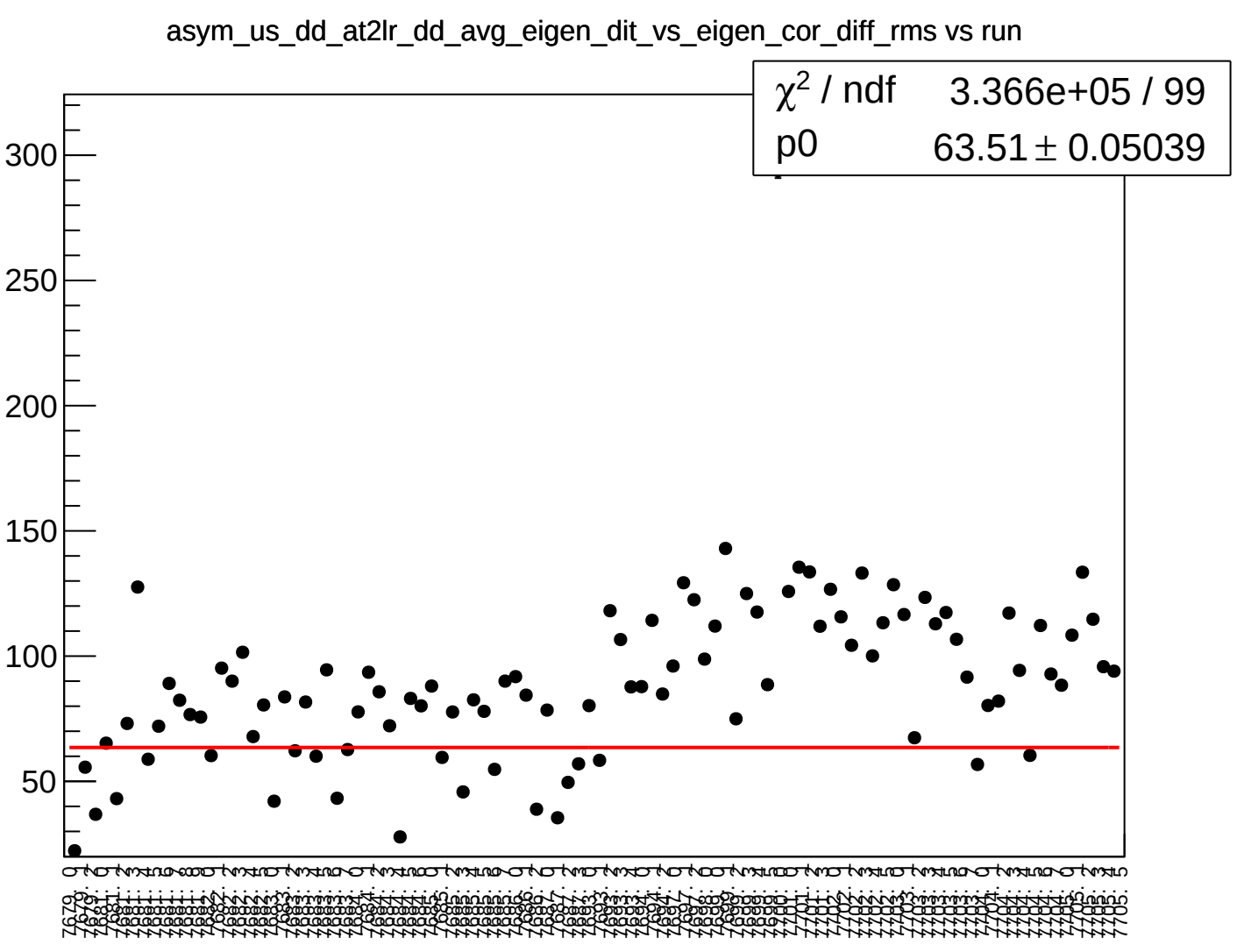

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 103.3 / 99
p0 −6.91e−07 ± 9.176e−06
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 100
Mean 108.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.1063
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

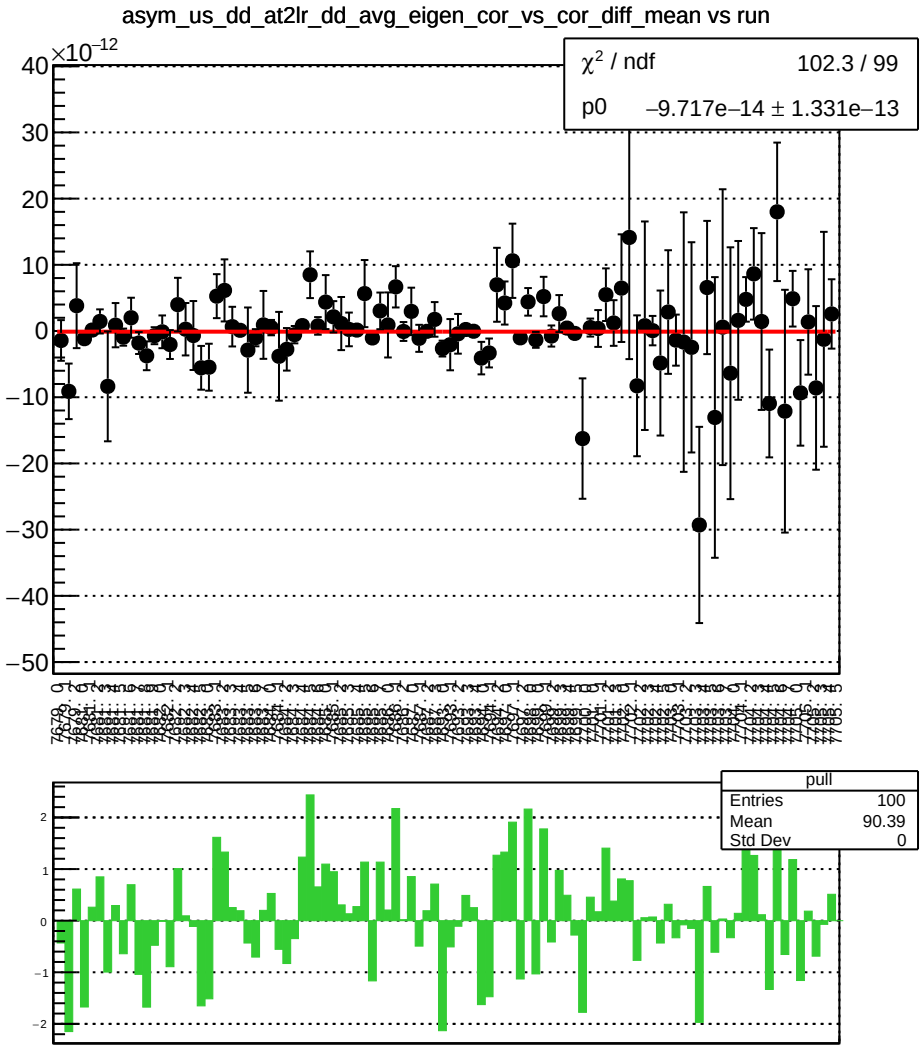

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.576e+05 / 99
p0 0.008378 ± 6.488e−06
0.025
0.02
0.015
0.01
0.005

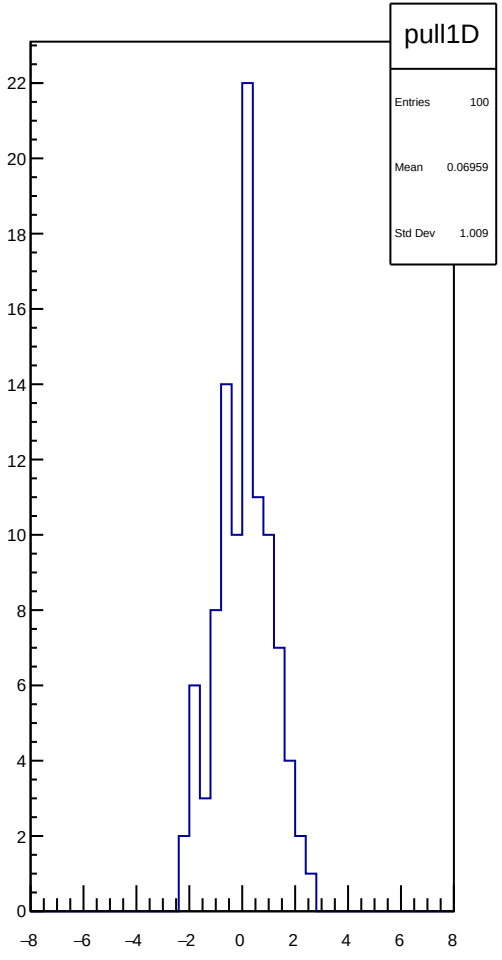

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.3 / 99
p0 0.05776 ± 0.07126
15
10
5
0
−5
pull
Entries 100
Mean 249.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.008004
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

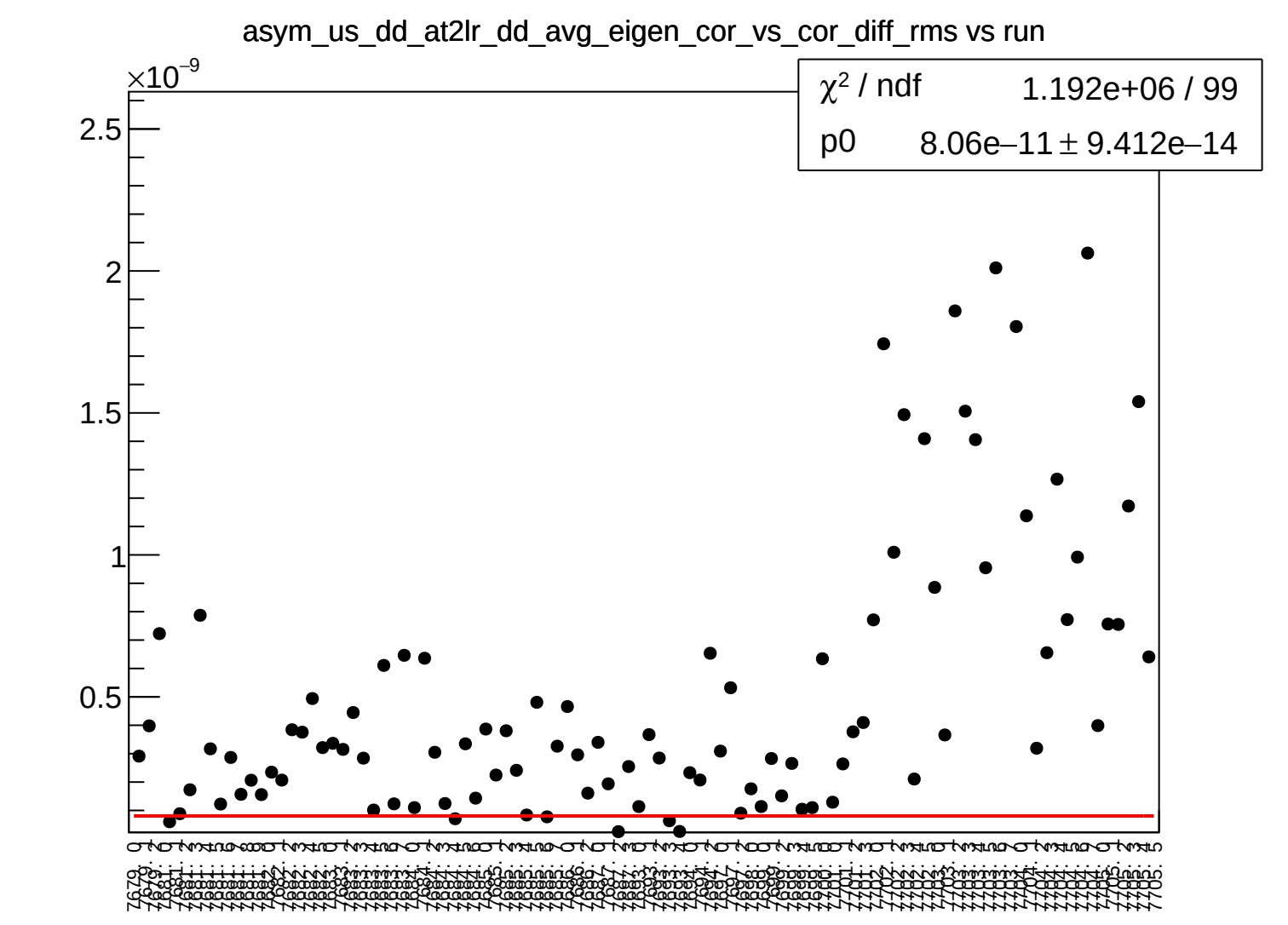

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.366e+05 / 99
p0 63.51 ± 0.05039
300
250
200
150
100
50

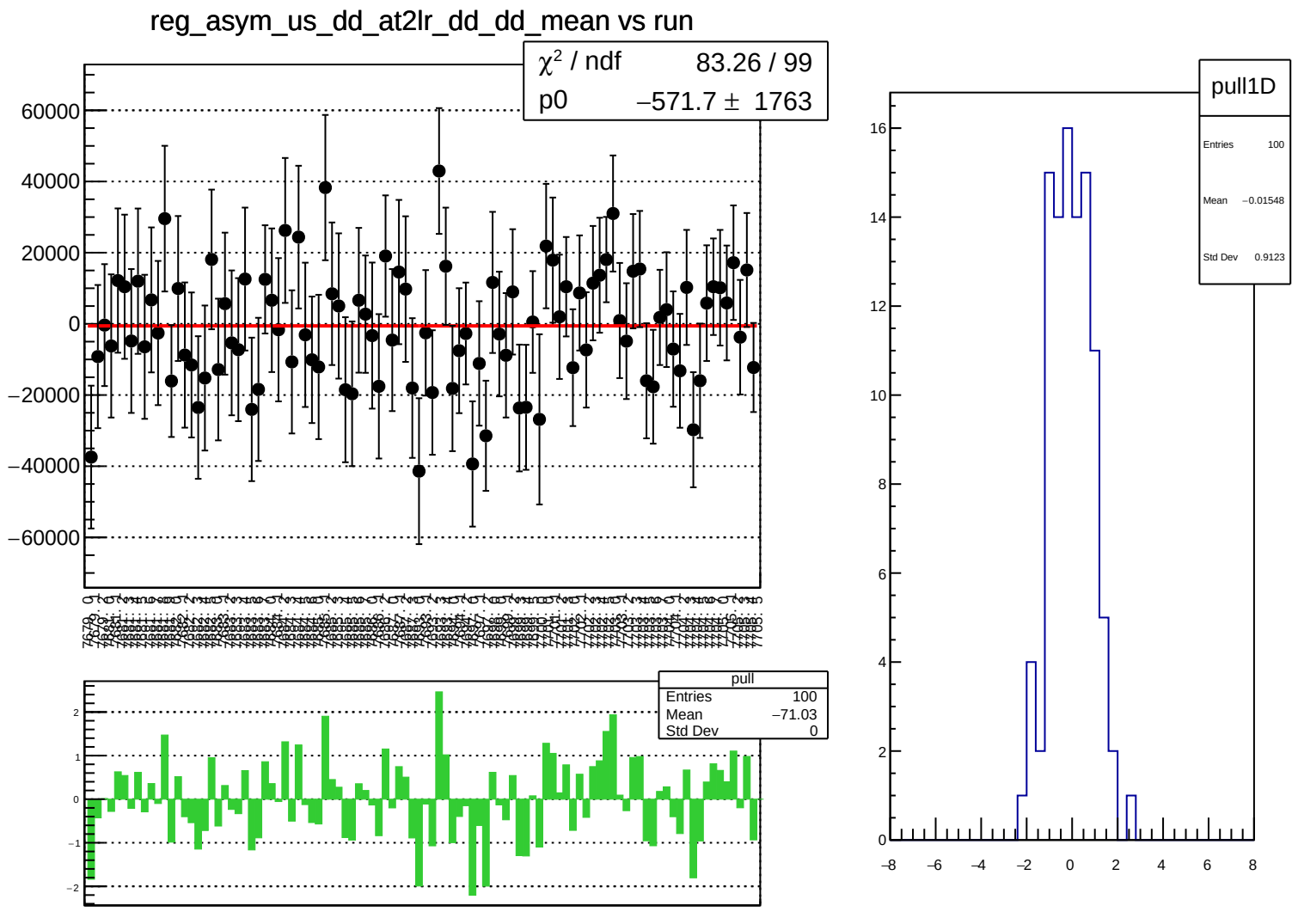

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.3 / 99
p0 0.05776 ± 0.07126
15
10
5
0
−5
pull
Entries 100
Mean 249.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.008004
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

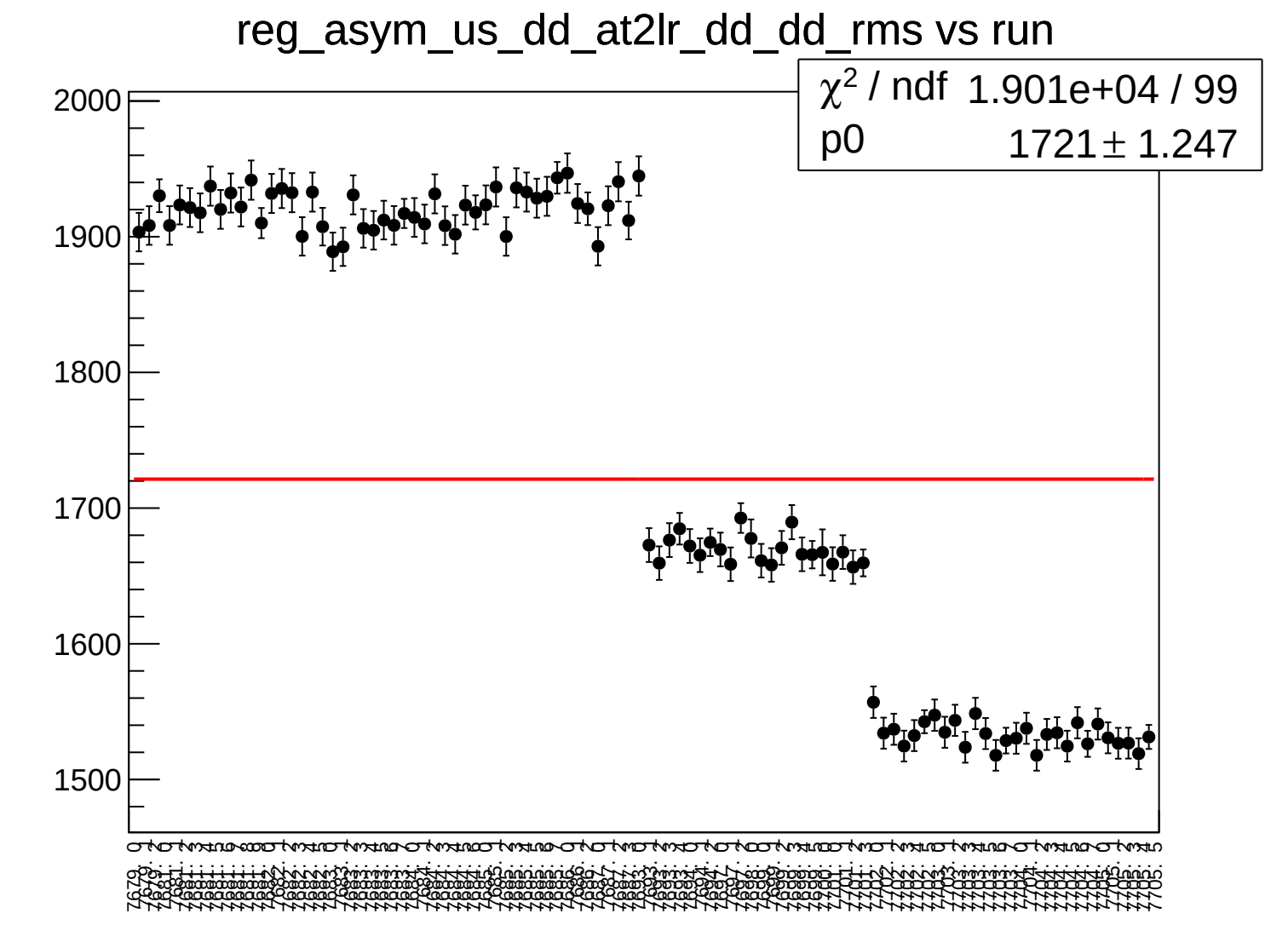

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.366e+05 / 99
p0 63.51 ± 0.05039
300
250
200
150
100
50

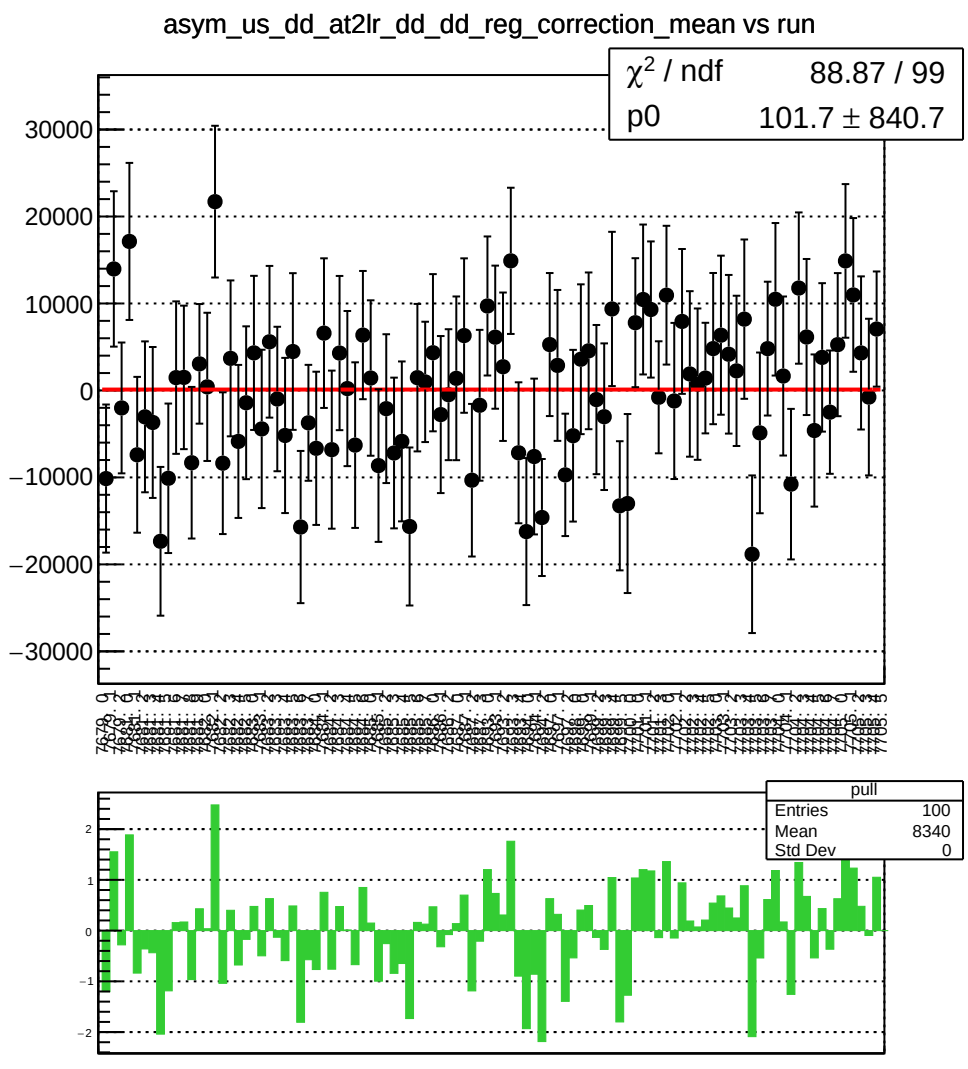

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.3 / 99
p0 −9.717e−14 ± 1.331e−13
pull
Entries 100
Mean 90.39
Std Dev 0

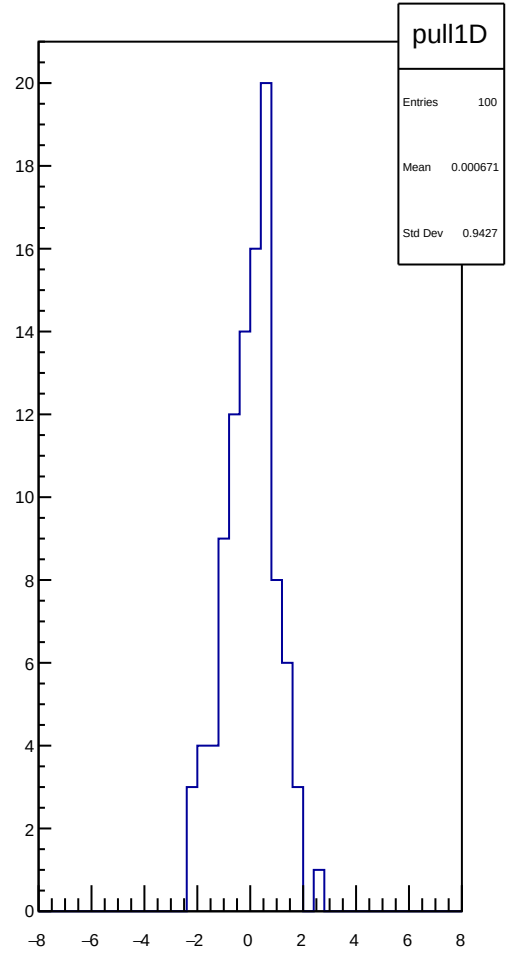

pull1D
Entries 100
Mean 0.06959
Std Dev 1.009

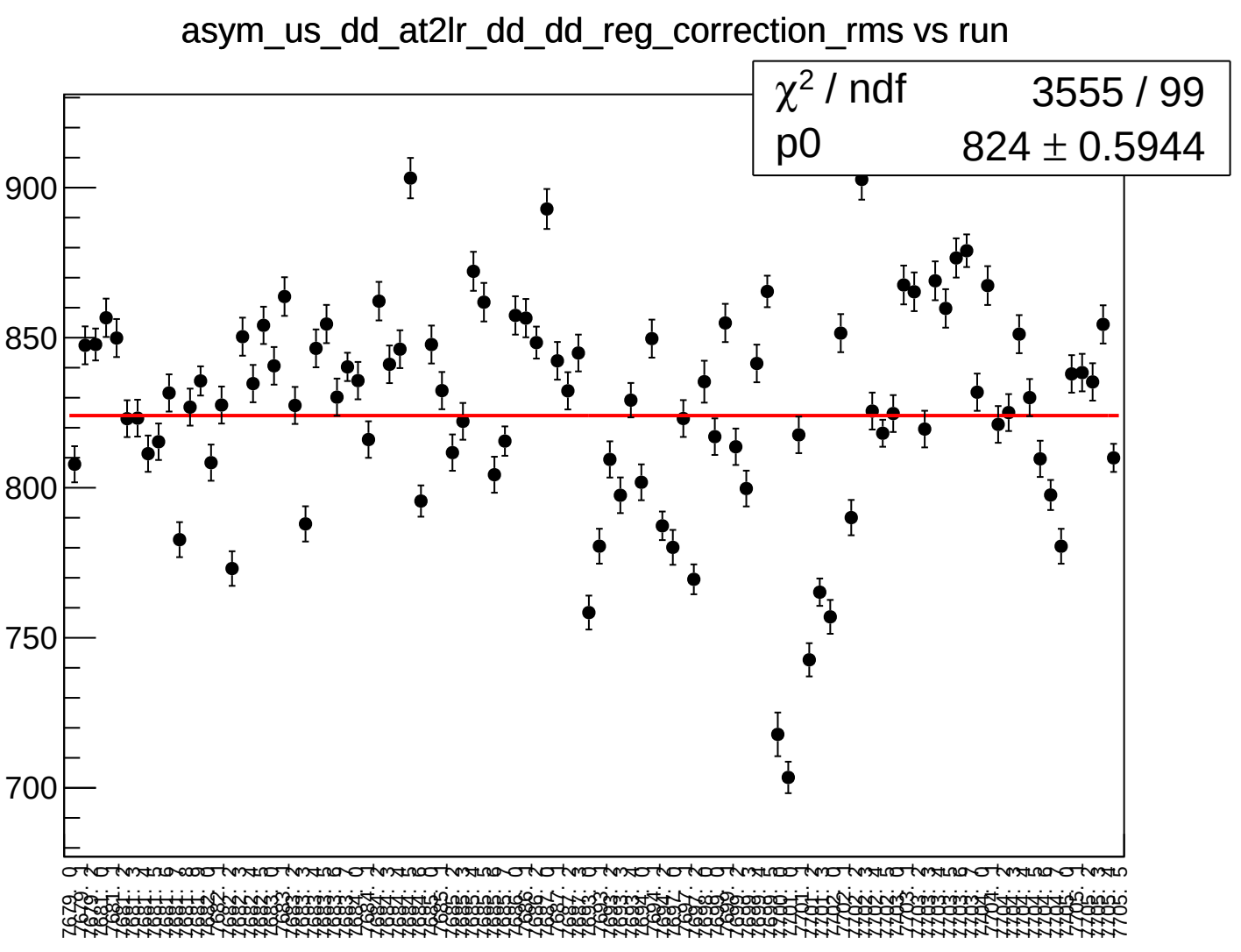

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.192e+06 / 99
p0 8.06e−11 ± 9.412e−14
2.5
2
1.5
1
0.5

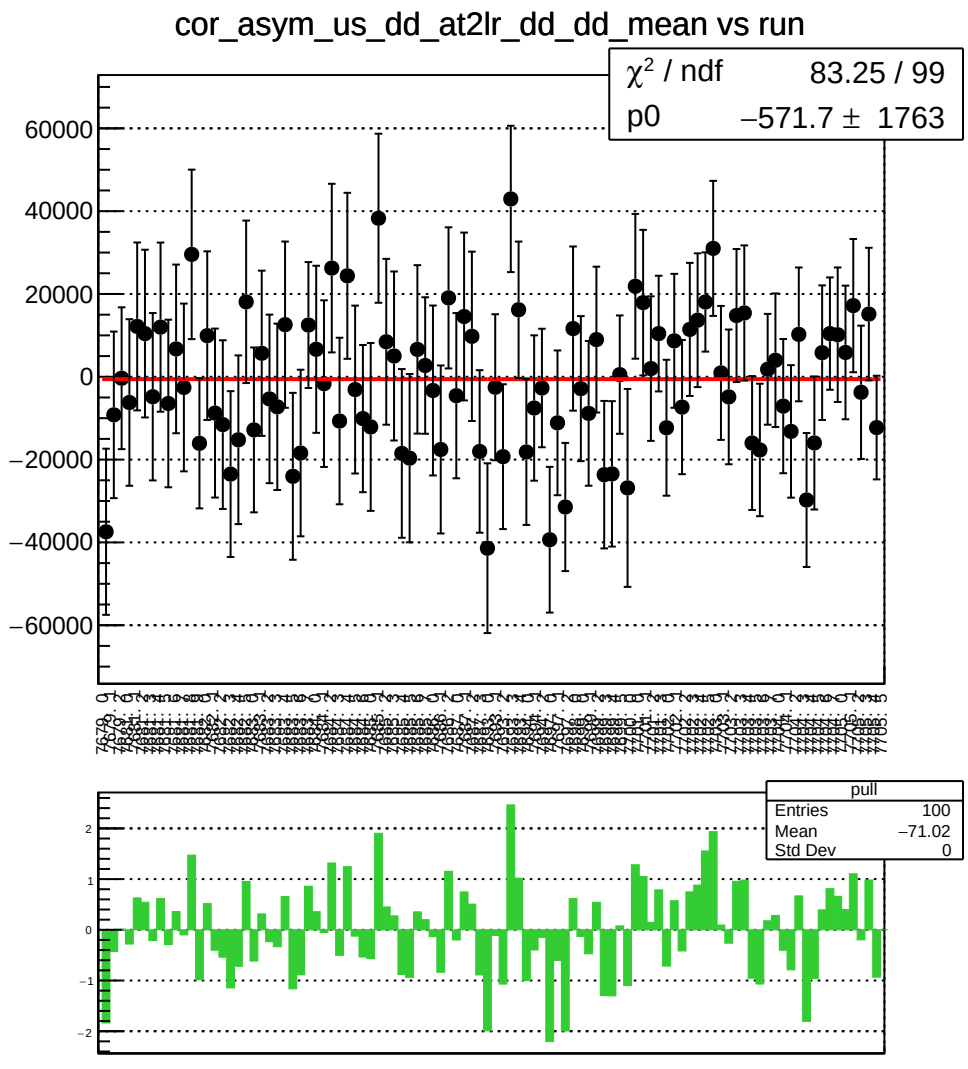

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 83.26 / 99
p0 −571.7 ± 1763
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −71.03
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.01548
Std Dev 0.9123
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

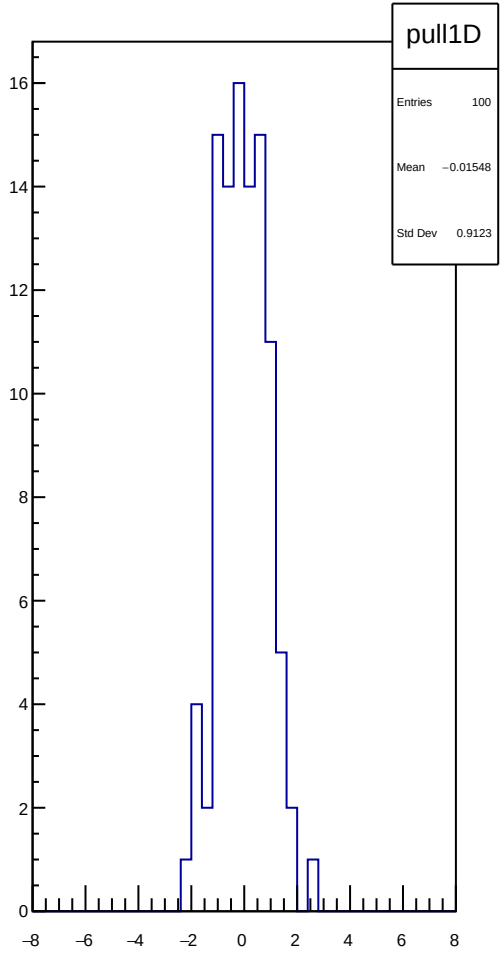

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1.901e+04 / 99
p0 1721 ± 1.247
2000
1900
1800
1700
1600
1500

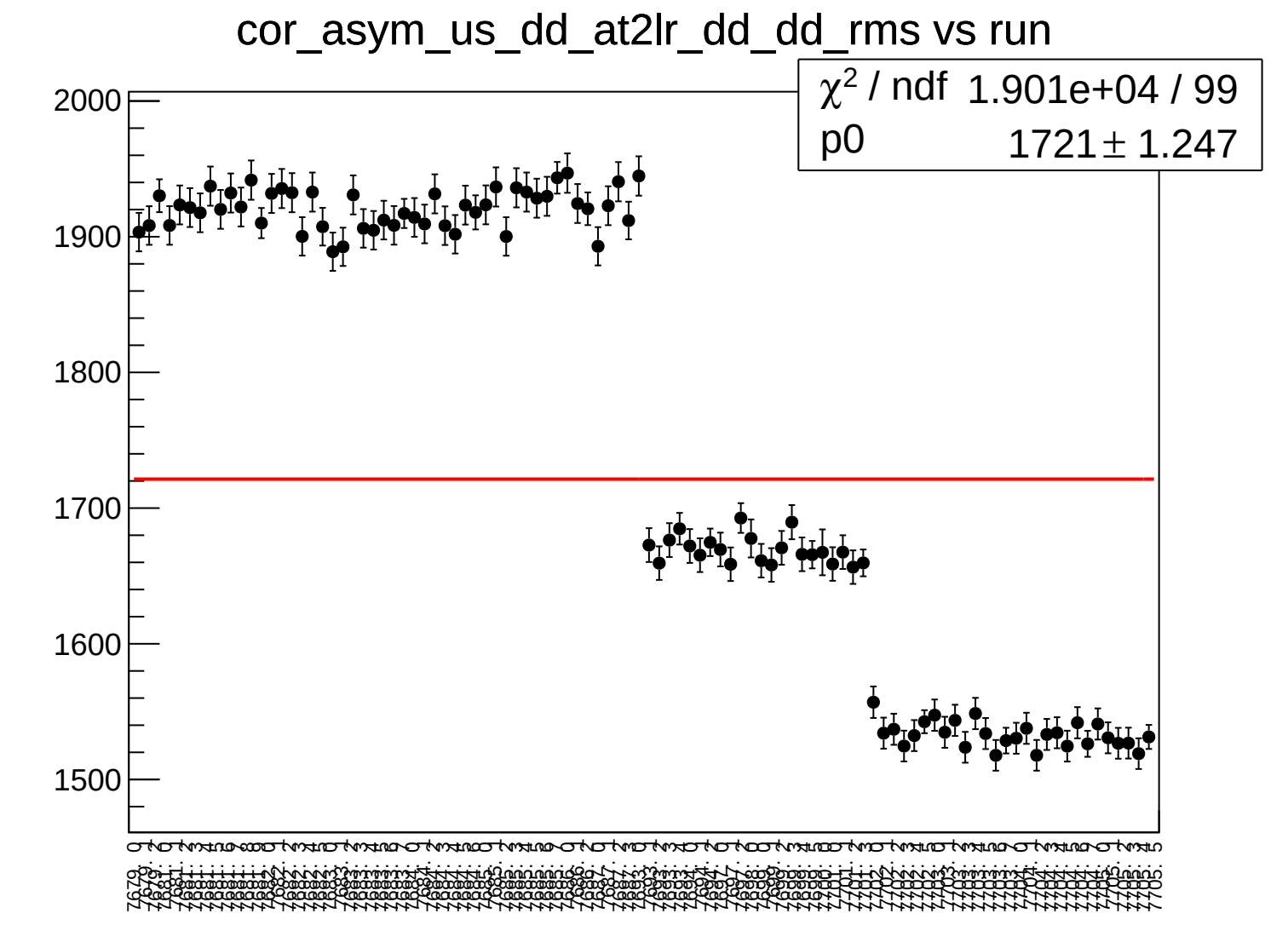

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 88.87 / 99
p0 101.7 ± 840.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 100
Mean 8340
Std Dev 0
2
1
0
−1
−2

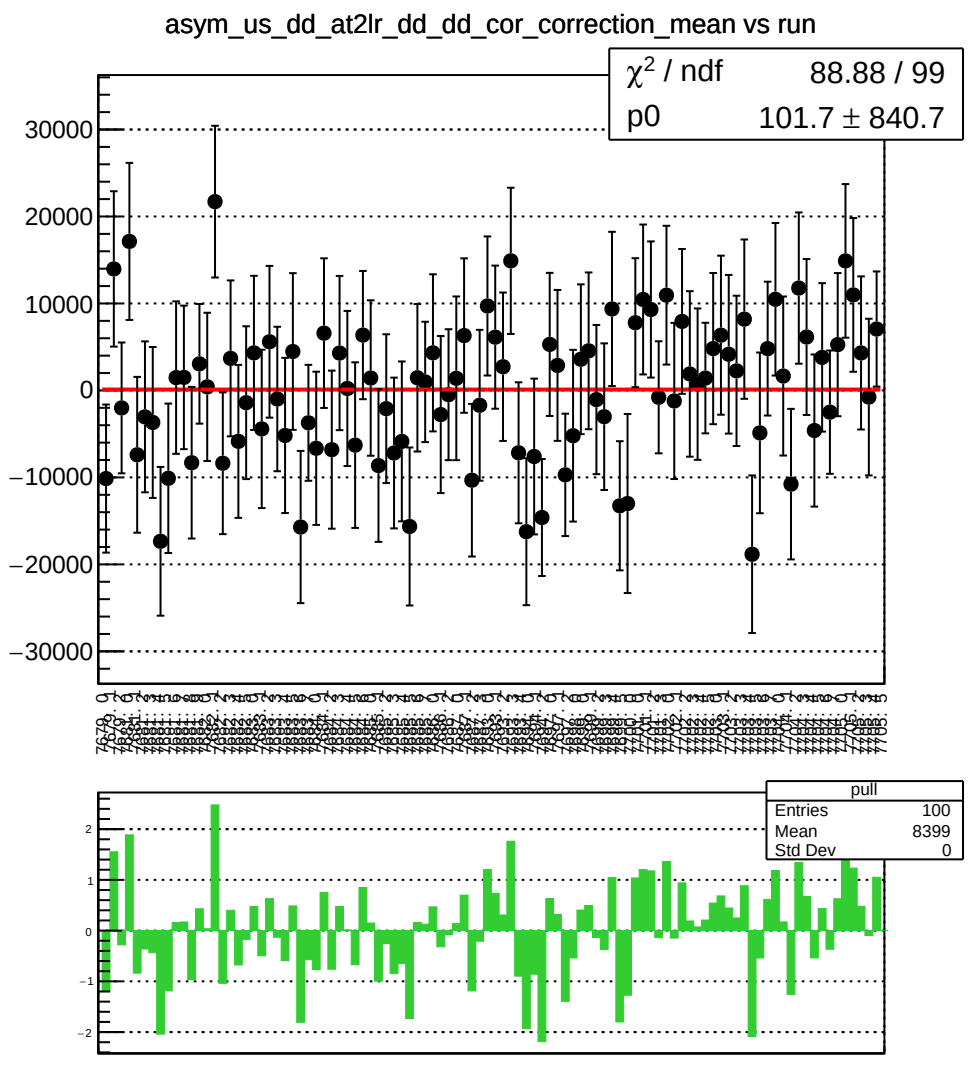

pull1D
Entries 100
Mean 0.000671
Std Dev 0.9427
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

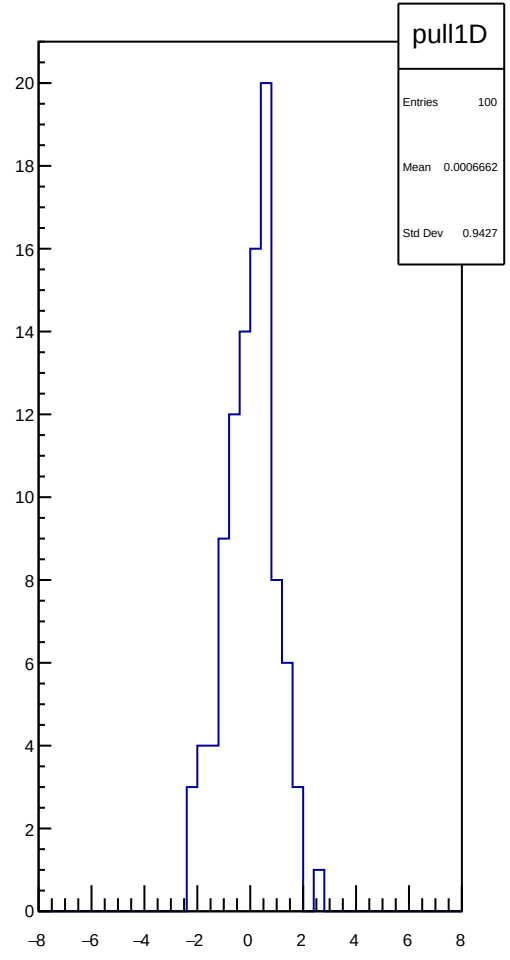

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 3555 / 99
p0 824 ± 0.5944
900
850
800
750
700

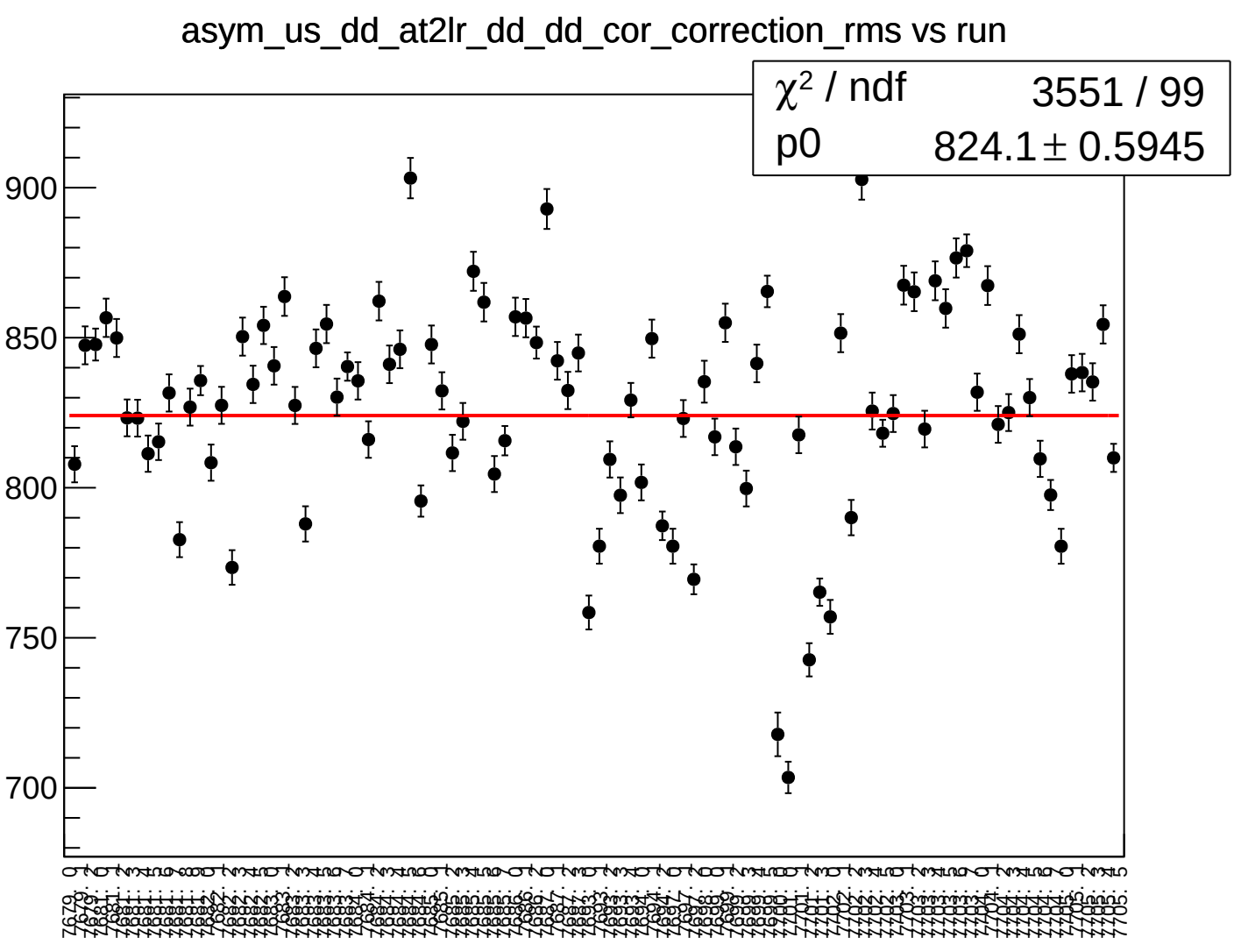

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 83.25 / 99
p0 −571.7 ± 1763
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −71.02
Std Dev 0
2
1
0
−1
−2

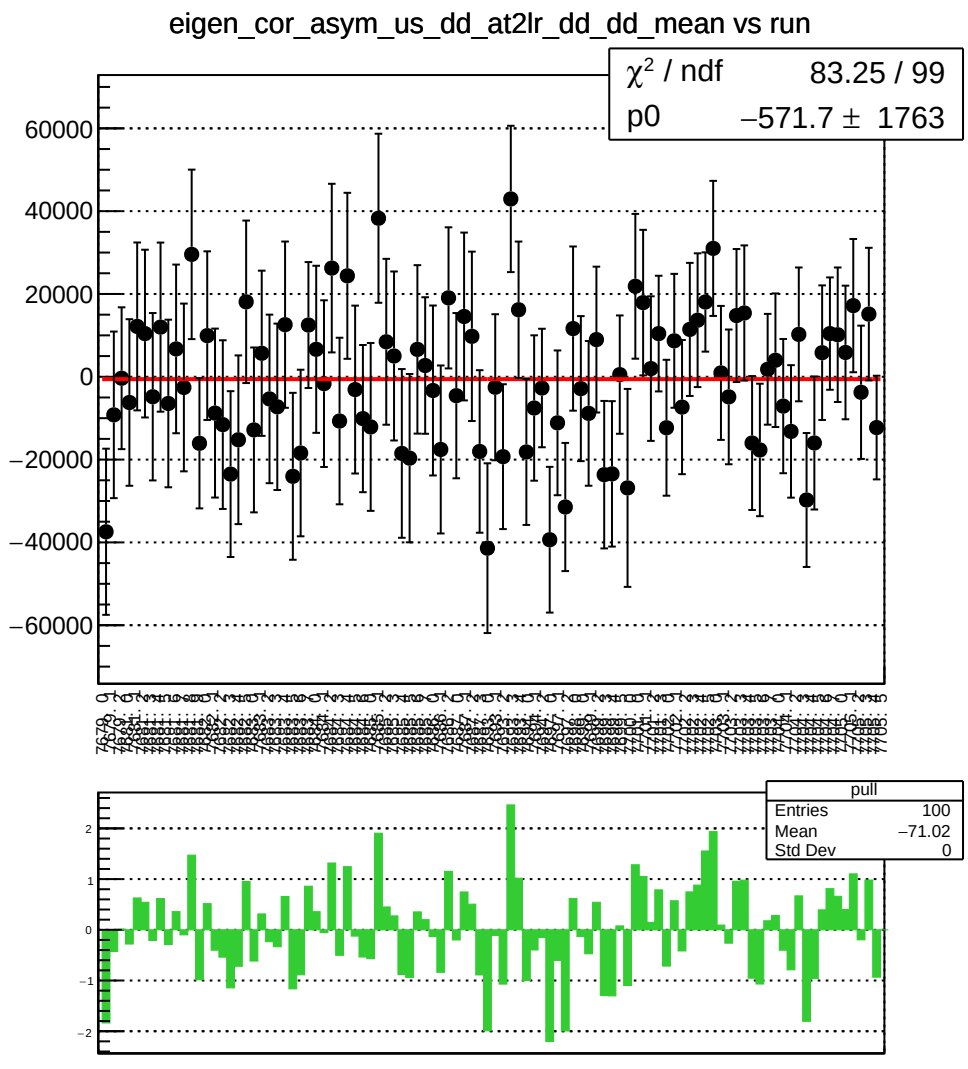

pull1D
Entries 100
Mean −0.01548
Std Dev 0.9123
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

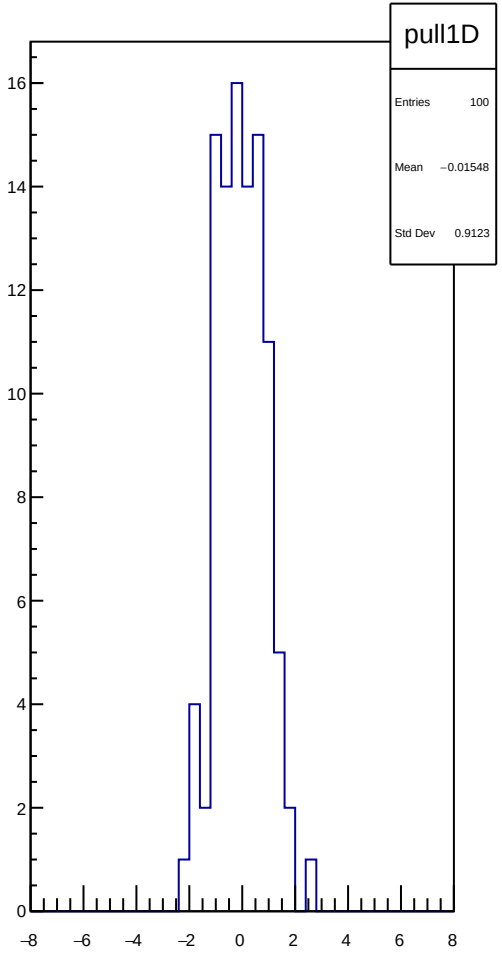

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1.901e+04 / 99
p0 1721 ± 1.247
2000
1900
1800
1700
1600
1500

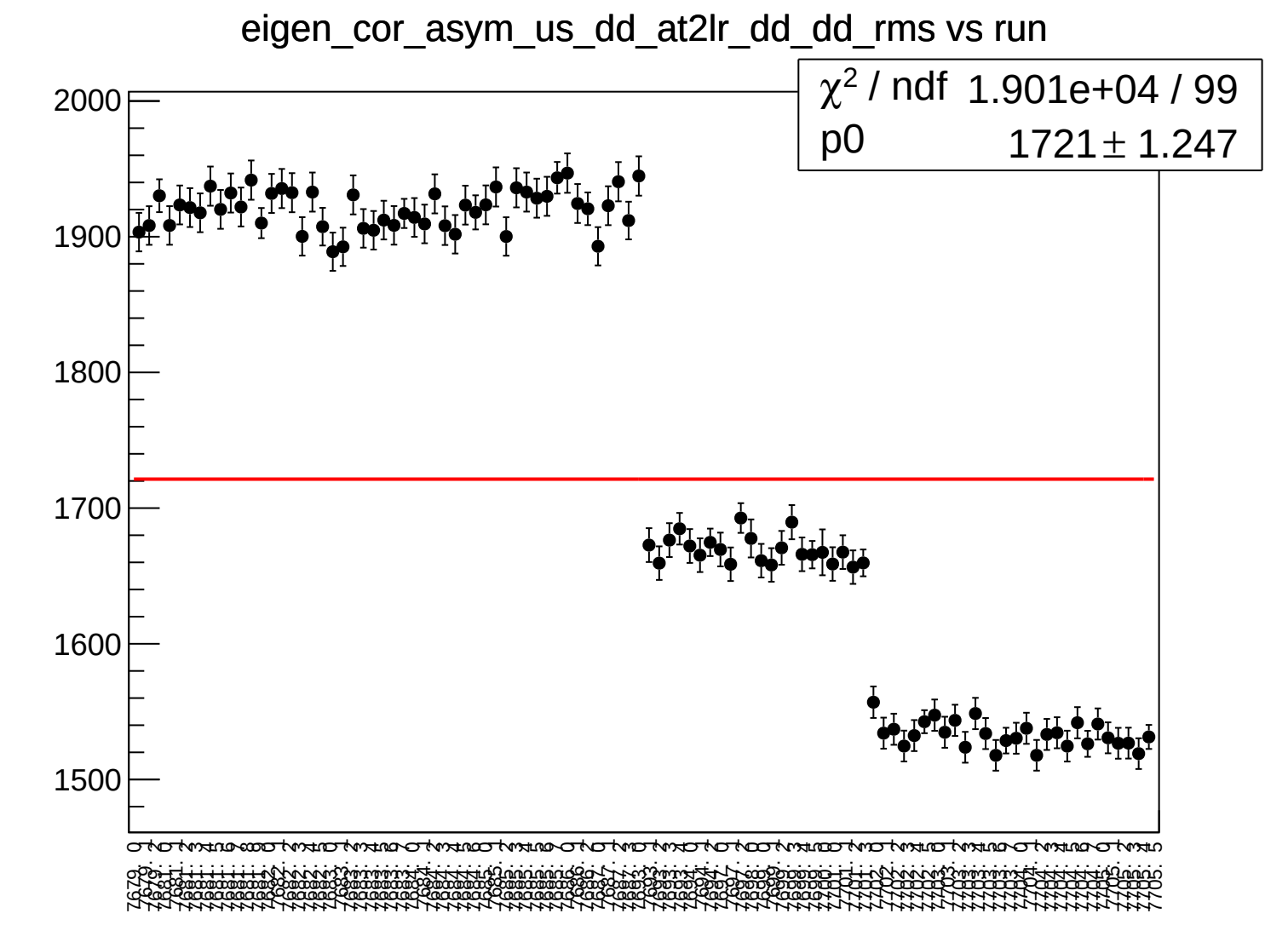

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 88.88 / 99
p0 101.7 ± 840.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 100
Mean 8399
Std Dev 0
2
1
0
−1
−2

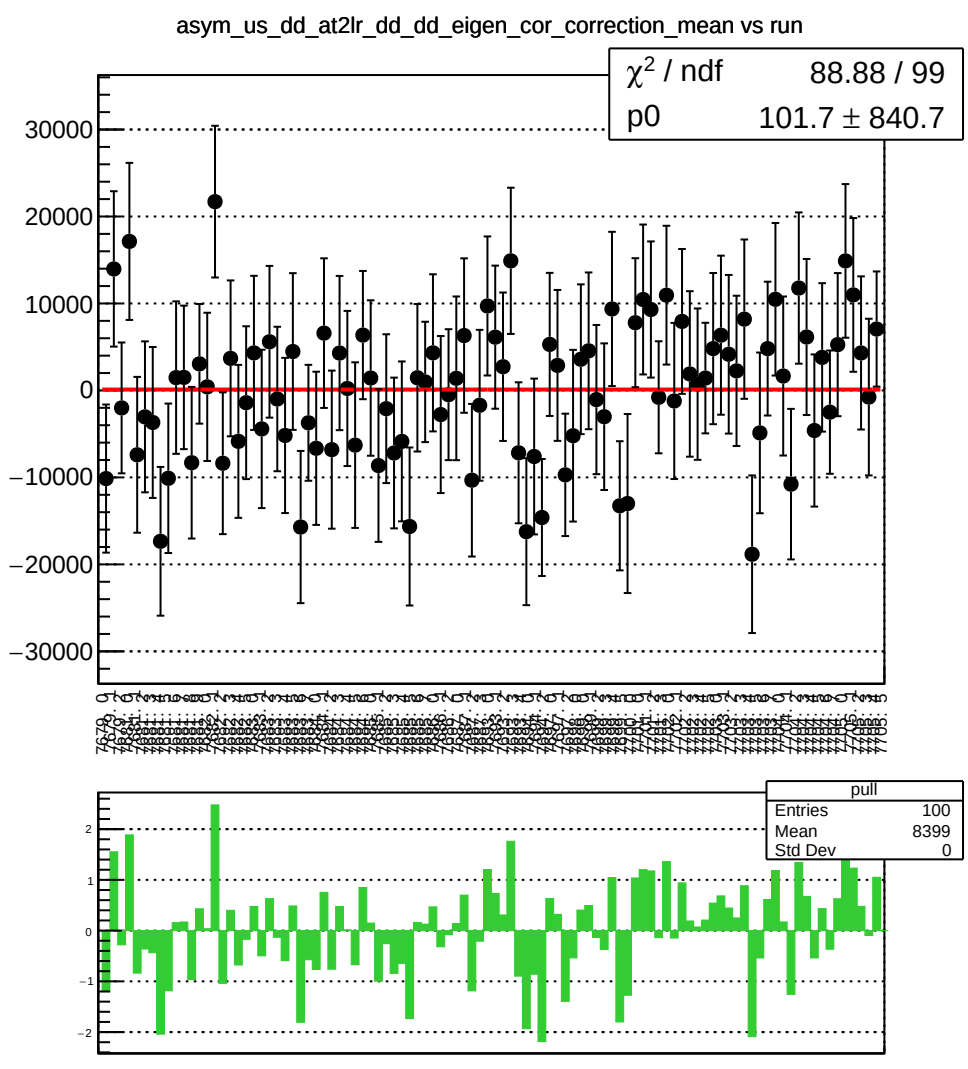

pull1D
Entries 100
Mean 0.0006662
Std Dev 0.9427
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

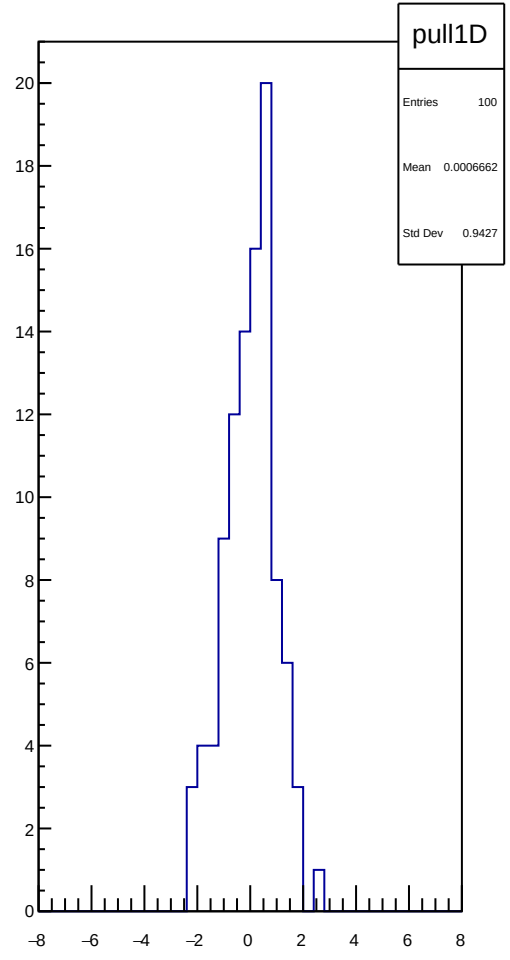

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 3551 / 99
p0 824.1 ± 0.5945
900
850
800
750
700


eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 83.25 / 99
p0 −571.7 ± 1763
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −71.02
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 100
Mean −0.01548
Std Dev 0.9123
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ^2 / ndf 1.901e+04 / 99
p0 1721 ± 1.247
2000
1900
1800
1700
1600
1500


asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 88.88 / 99
p0 101.7 ± 840.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 100
Mean 8399
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 100
Mean 0.0006662
Std Dev 0.9427
20
18
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10
8
6
4
2
0
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−6
−4
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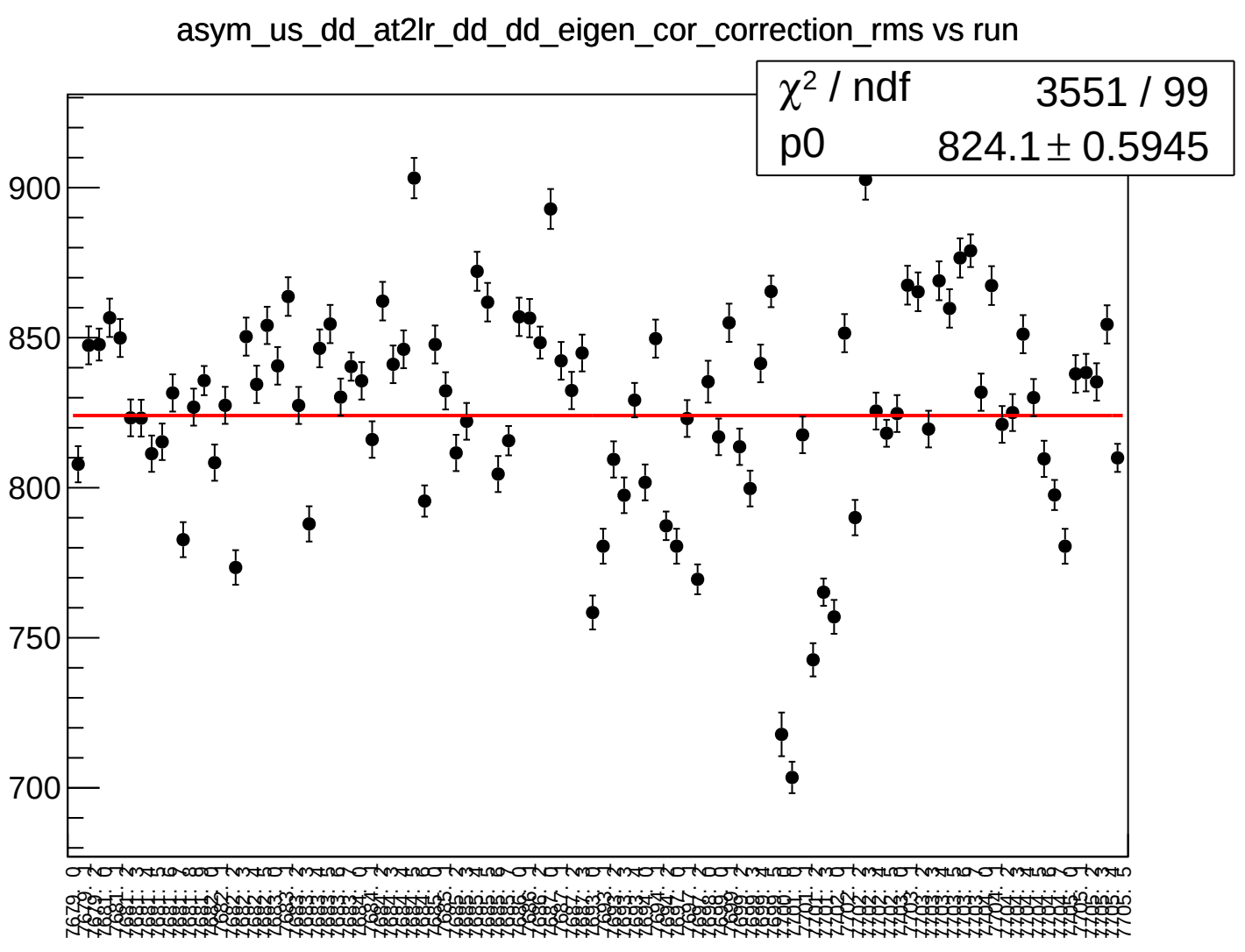
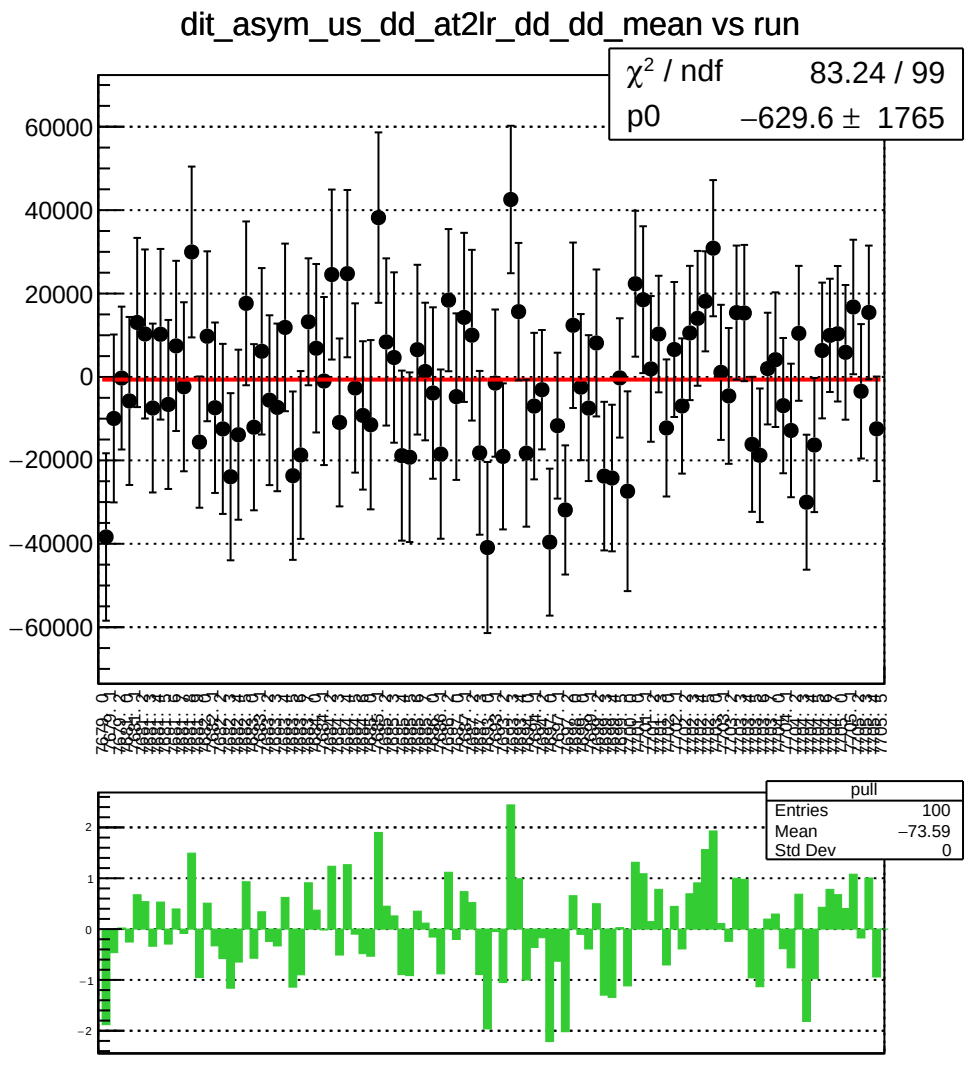
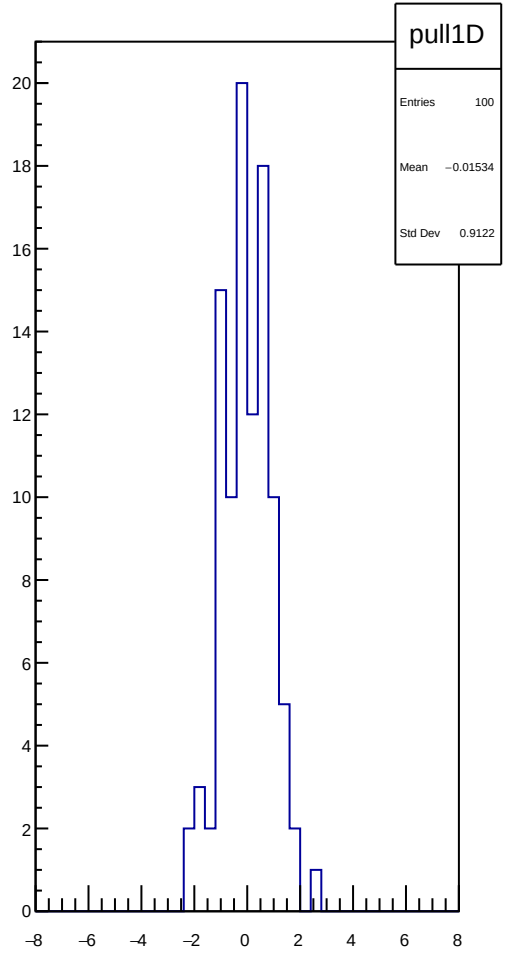
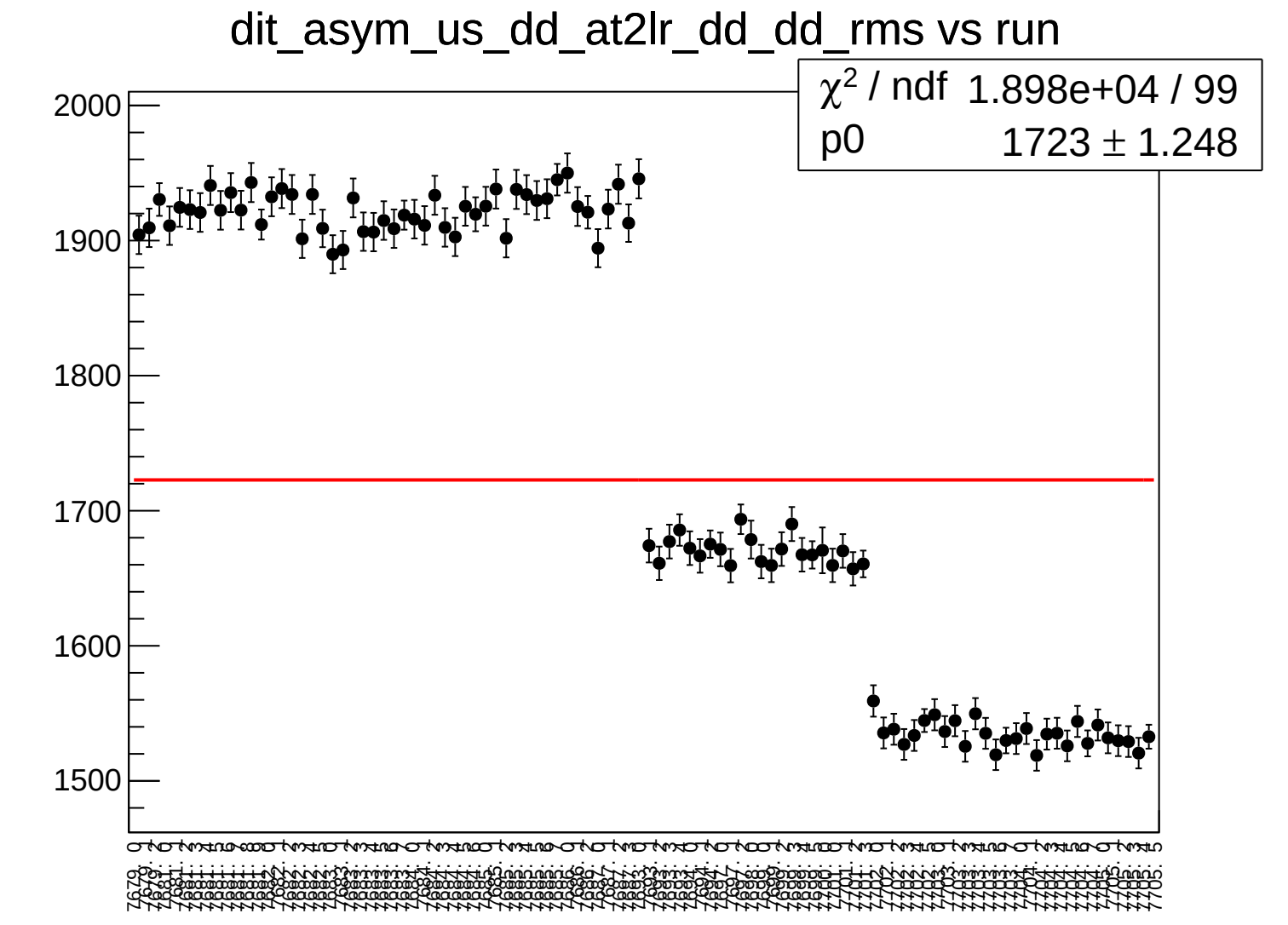
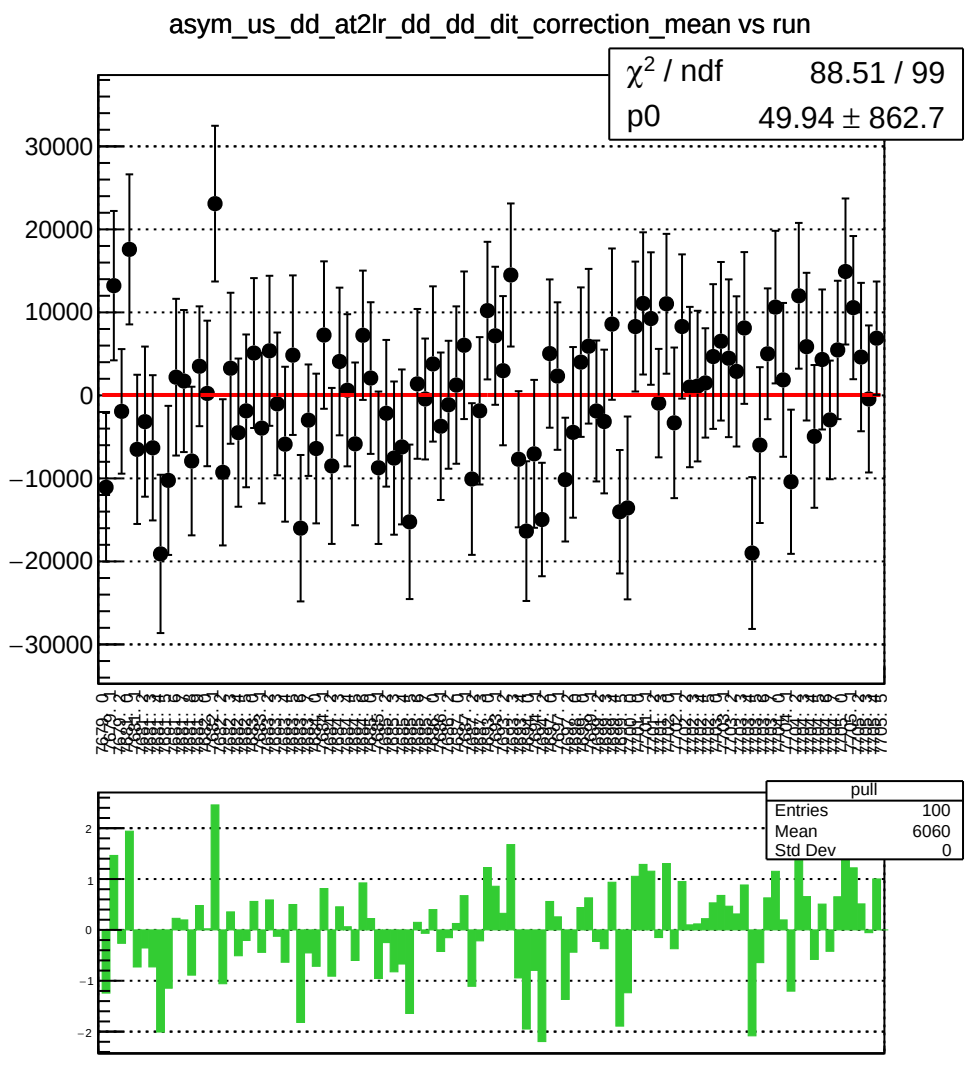
2
4
6
8

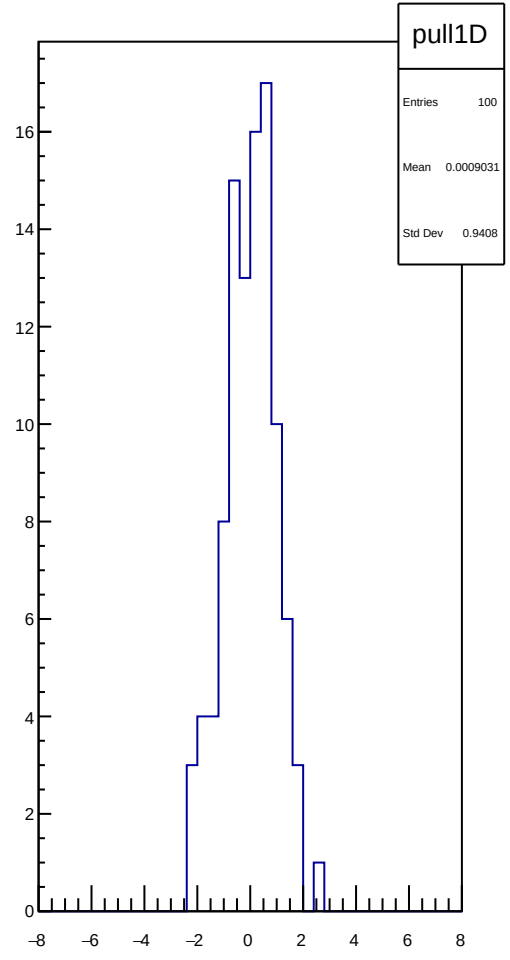

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 3551 / 99
p0 824.1 ± 0.5945
900
850
800
750
700

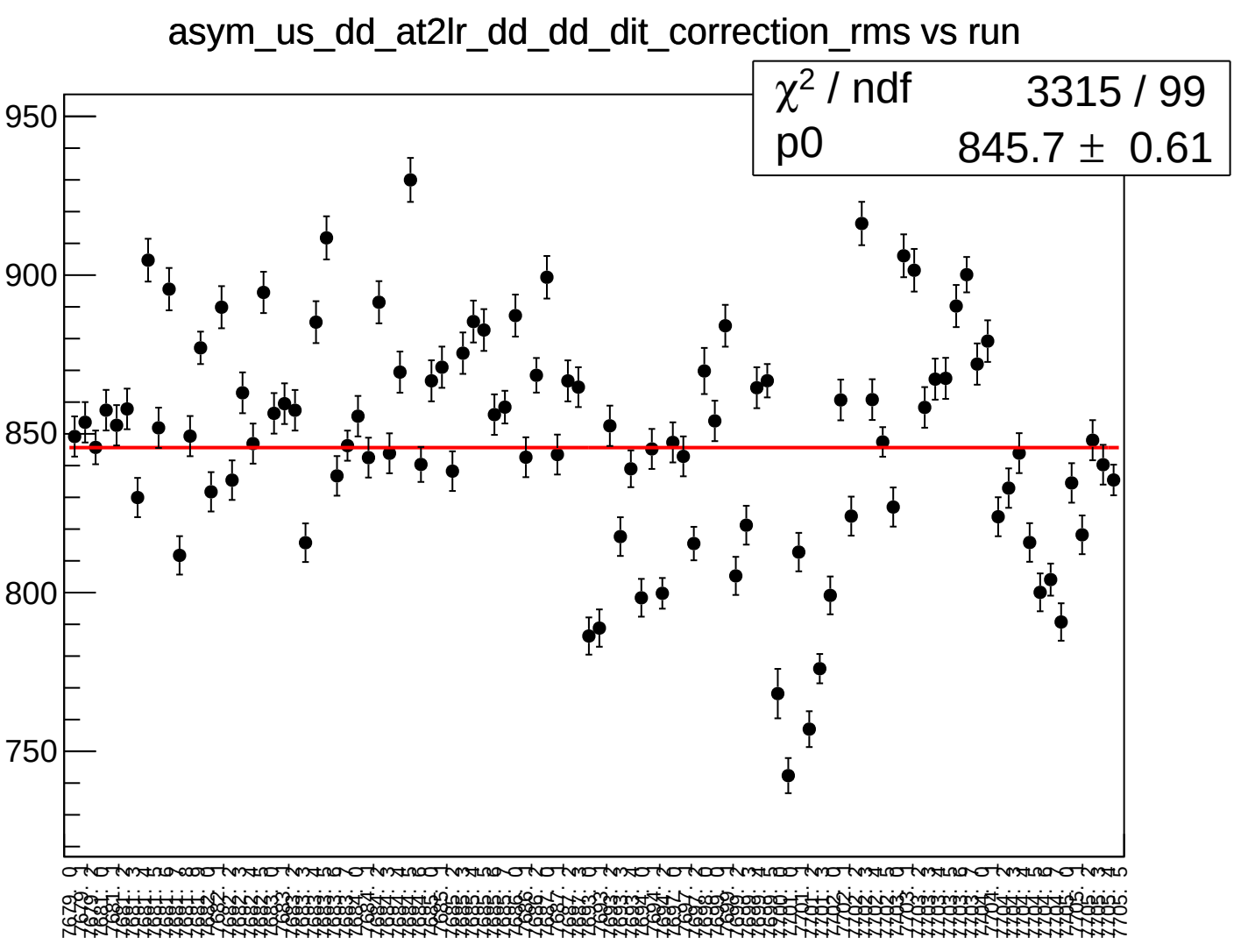

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 83.24 / 99
p0 −629.6 ± 1765
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −73.59
Std Dev 0
2
1
0
−1
−2

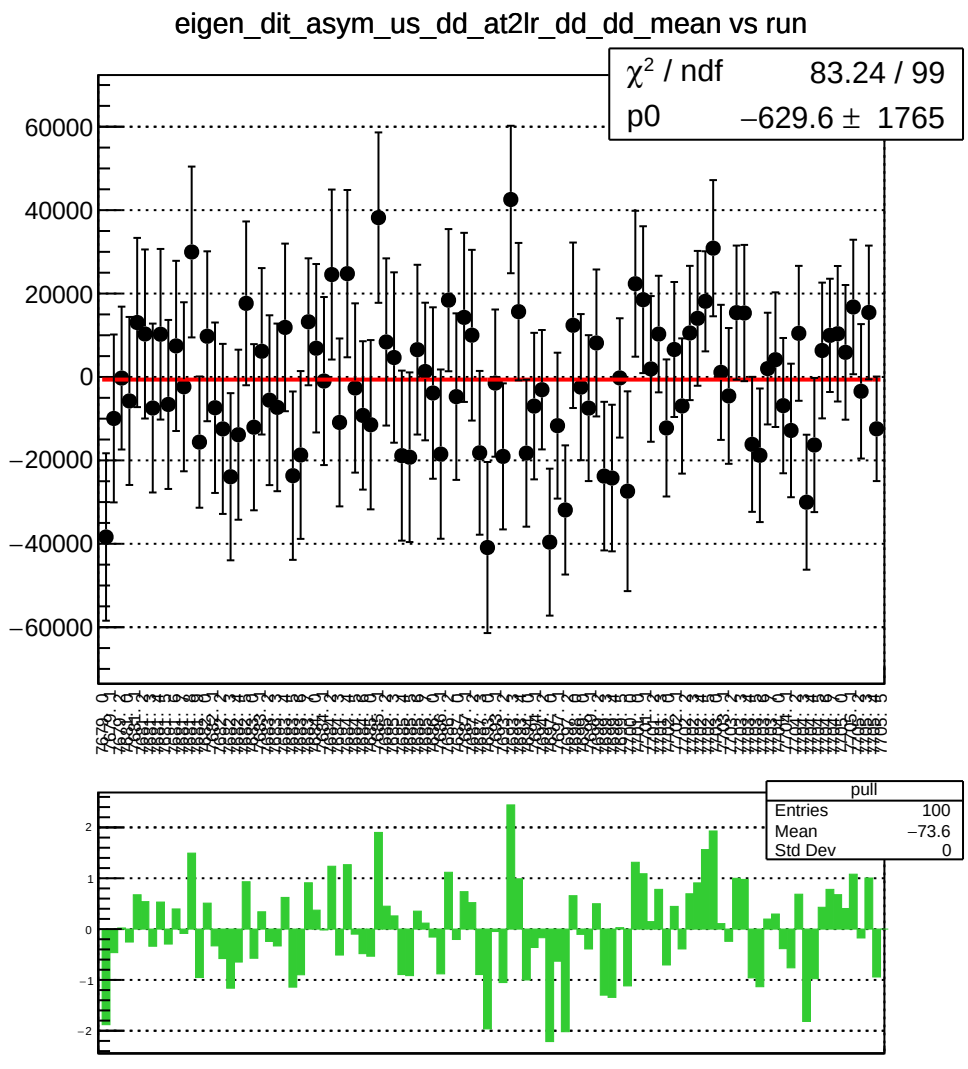

pull1D
Entries 100
Mean −0.01534
Std Dev 0.9122
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

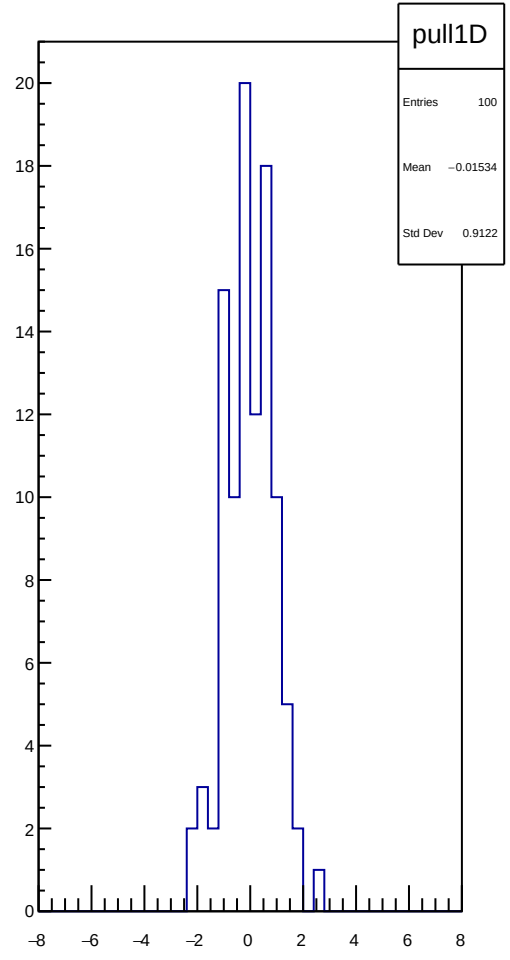

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1.898e+04 / 99
p0 1723 ± 1.248
2000
1900
1800
1700
1600
1500

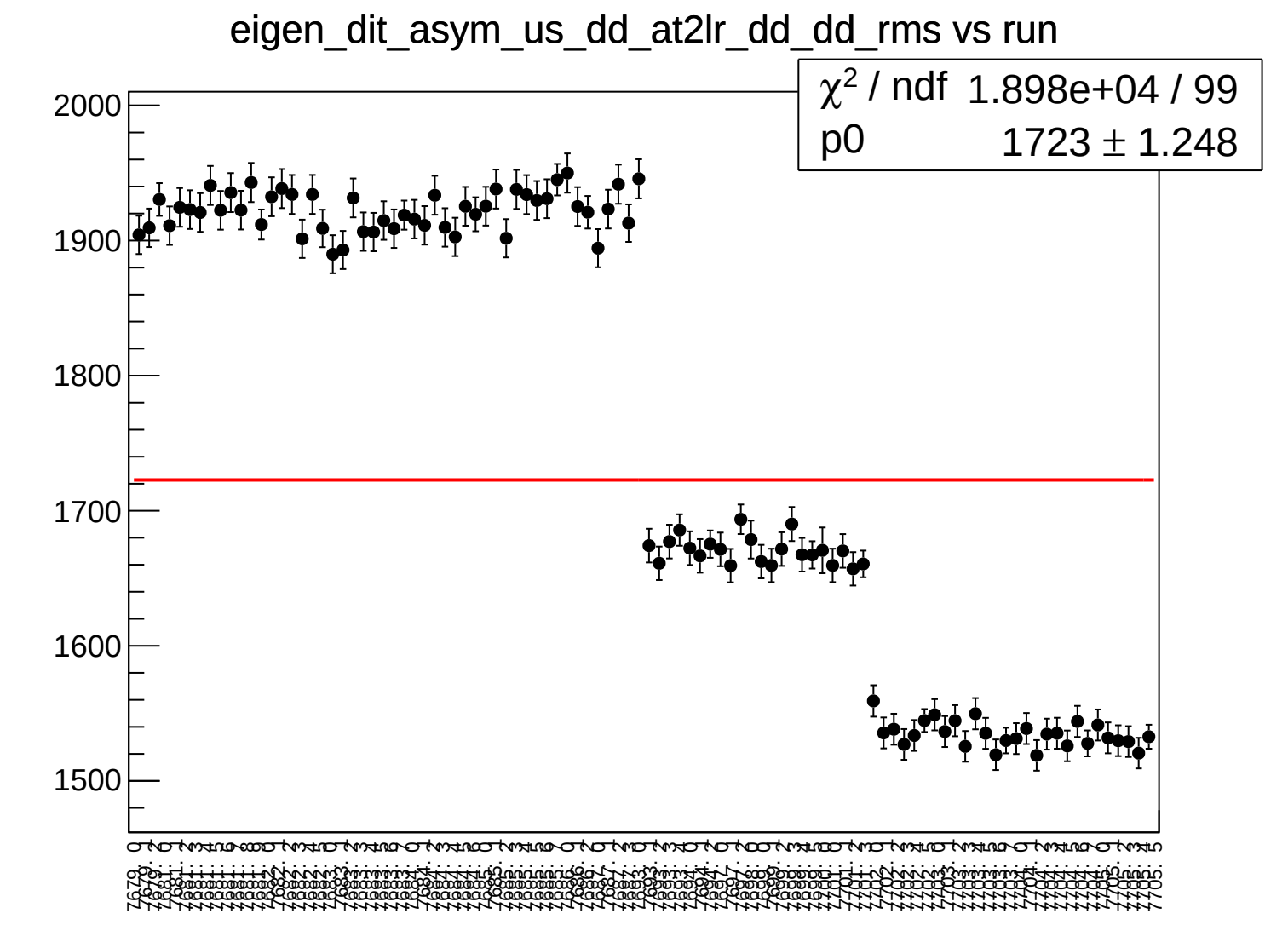

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 88.51 / 99
p0 49.94 ± 862.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 100
Mean 6060
Std Dev 0
2
1
0
−1
−2

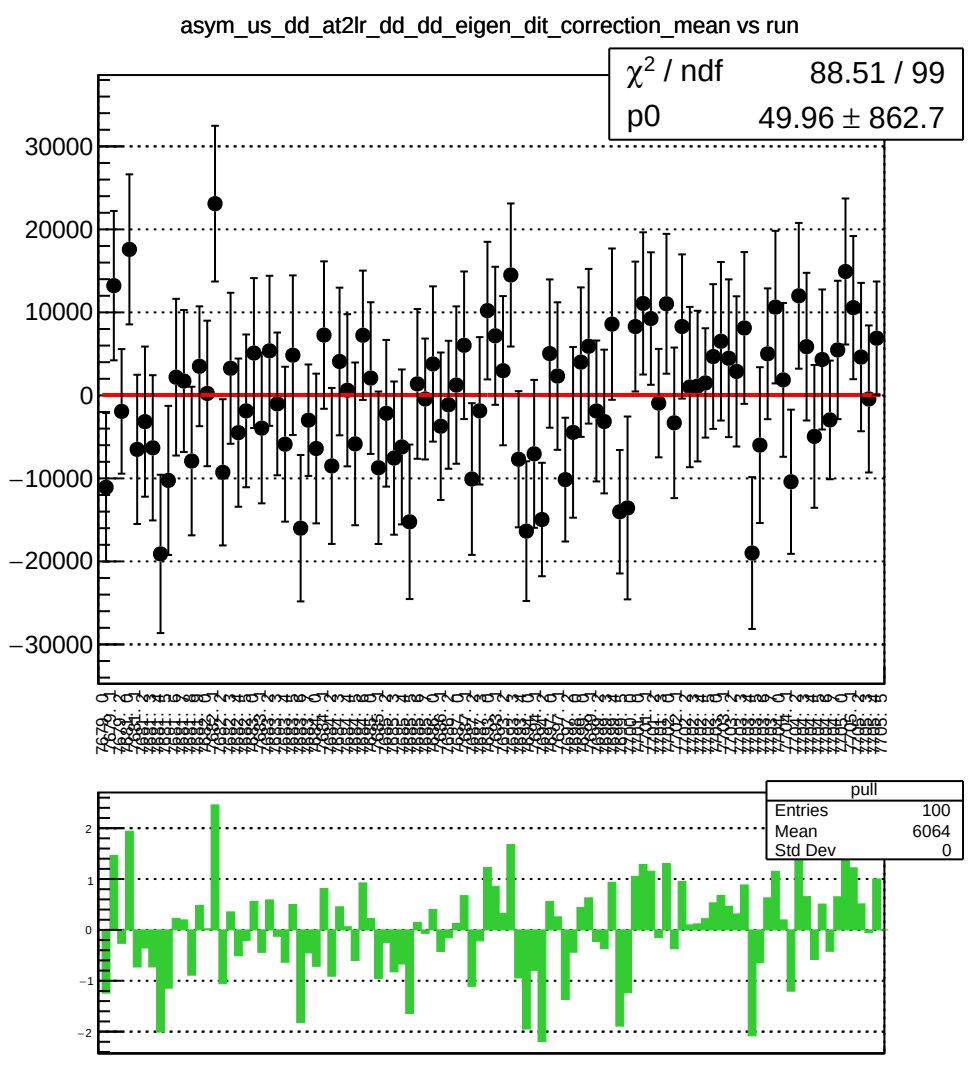

pull1D
Entries 100
Mean 0.0009031
Std Dev 0.9408
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

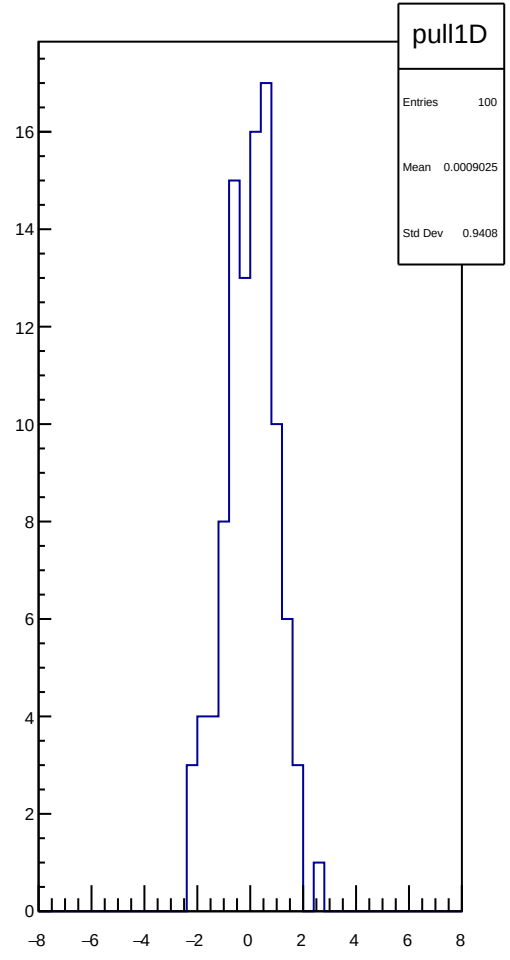

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 3315 / 99
p0 845.7 ± 0.61
950
900
850
800
750


eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 83.24 / 99
p0 −629.6 ± 1765
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −73.6
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 100
Mean −0.01534
Std Dev 0.9122
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1.898e+04 / 99
p0 1723 ± 1.248
2000
1900
1800
1700
1600
1500


asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 88.51 / 99
p0 49.96 ± 862.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 100
Mean 6064
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 100
Mean 0.0009025
Std Dev 0.9408
16
14
12
10
8
6
4
2
0
−8
−6
−4
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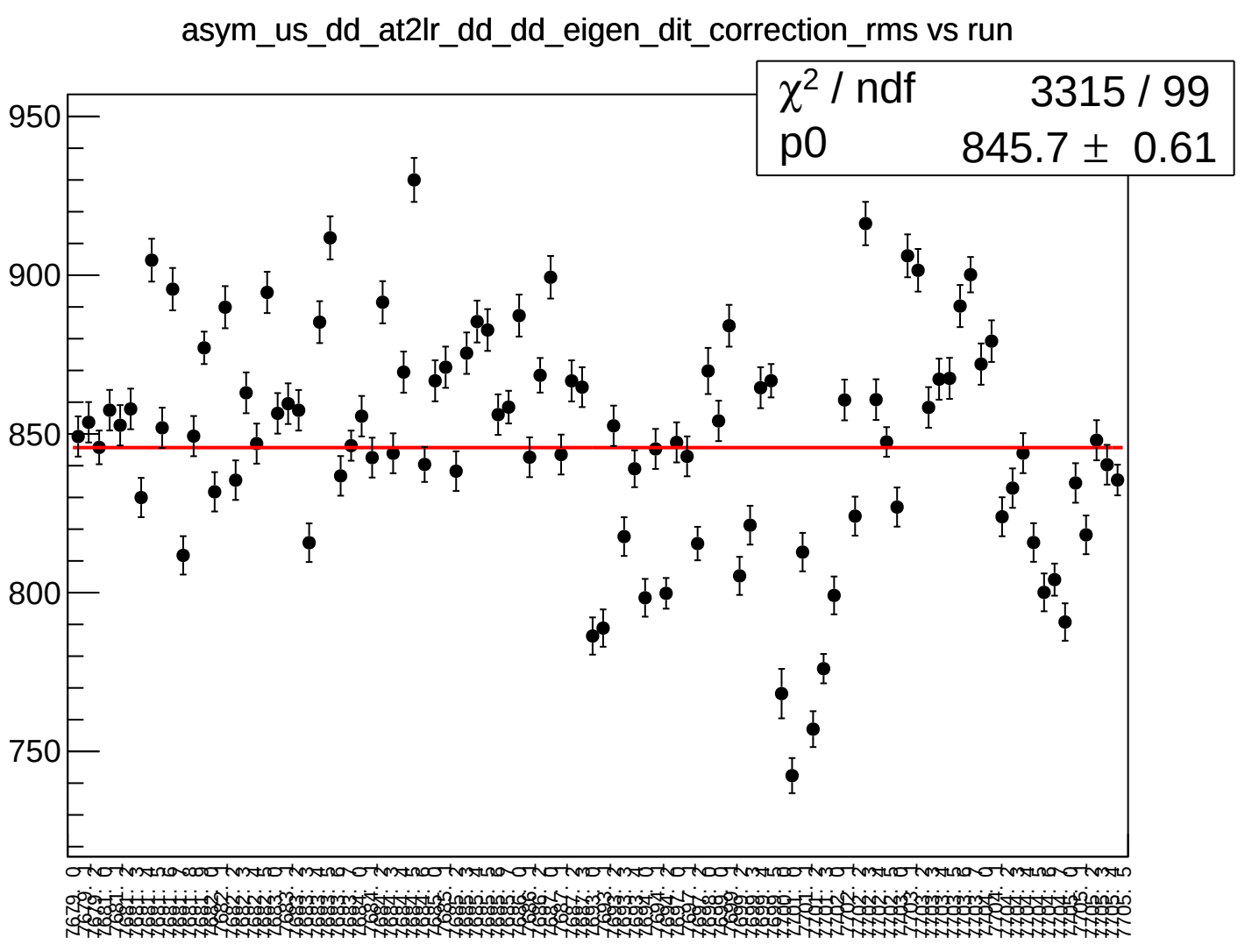
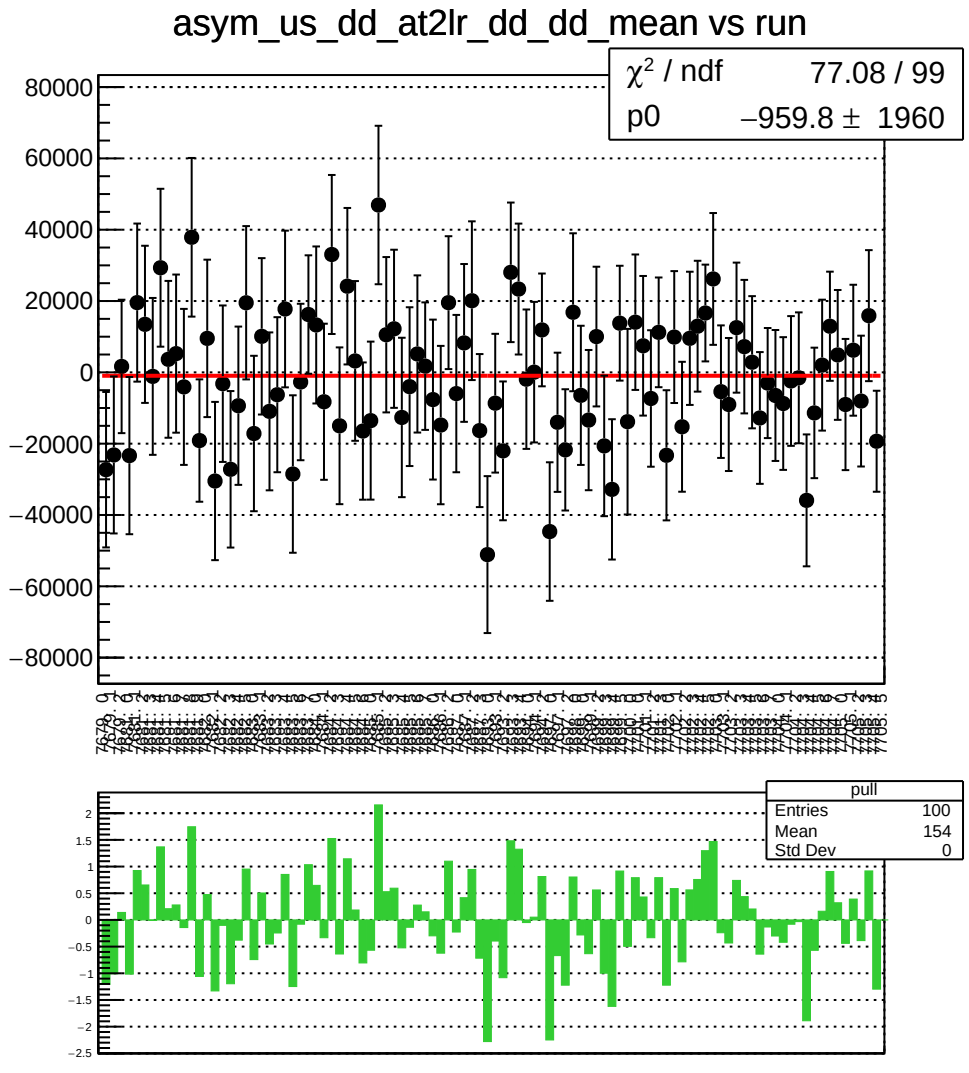
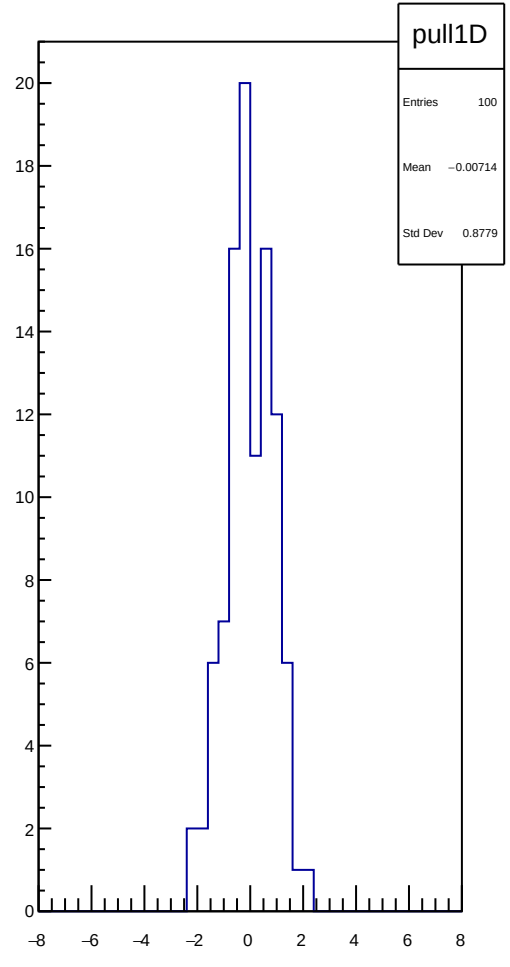
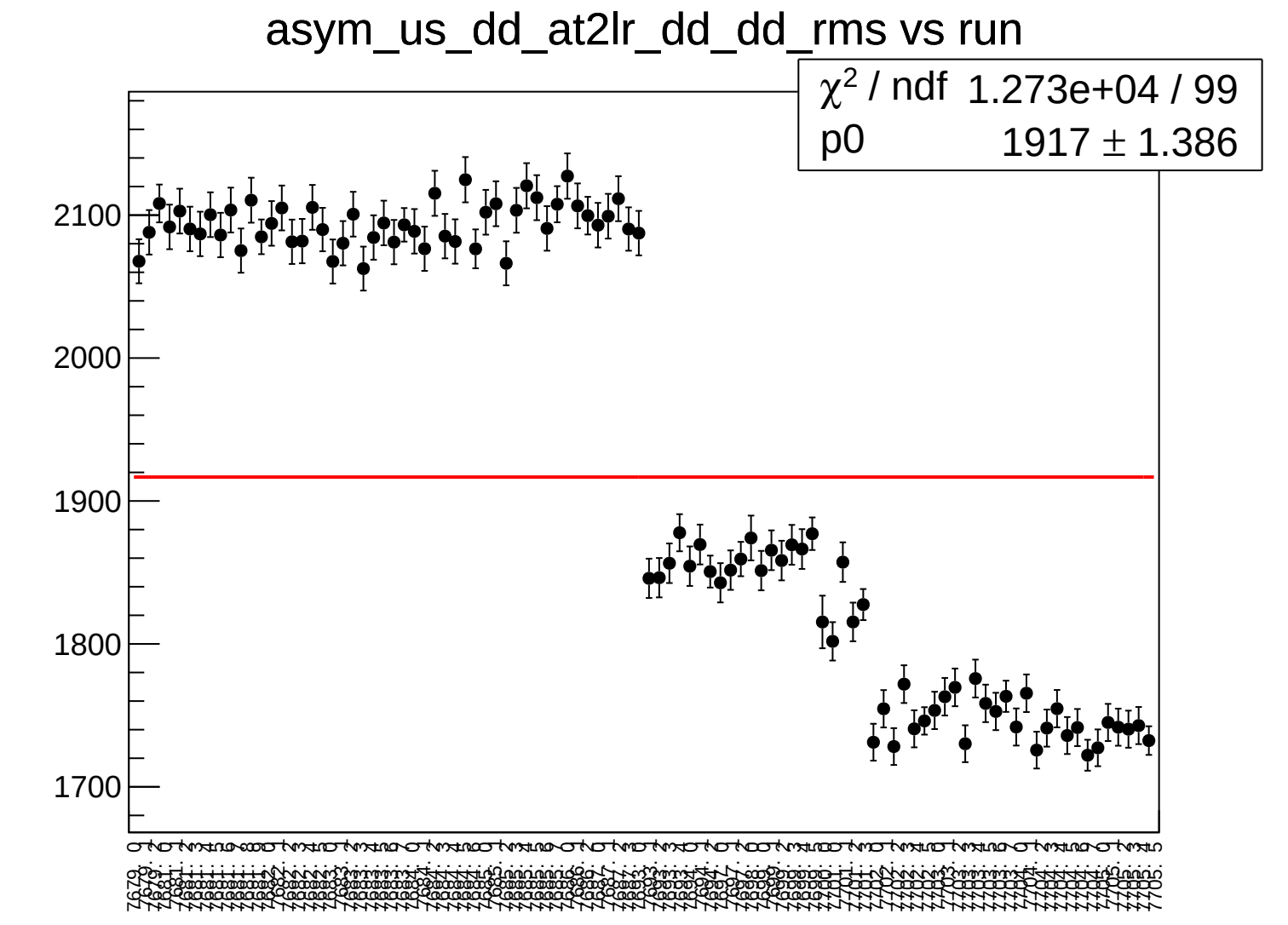
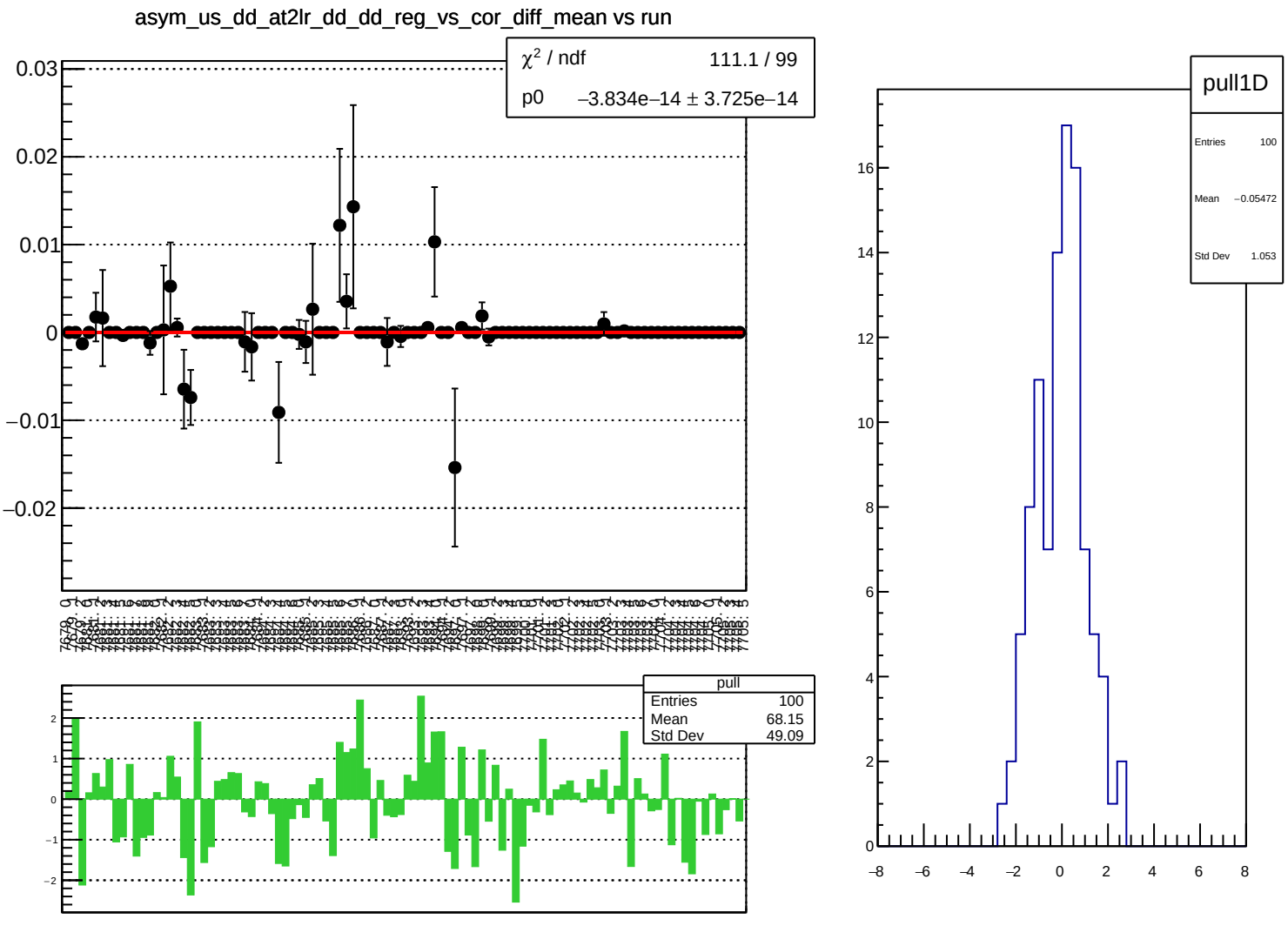
0
2
4
6
8

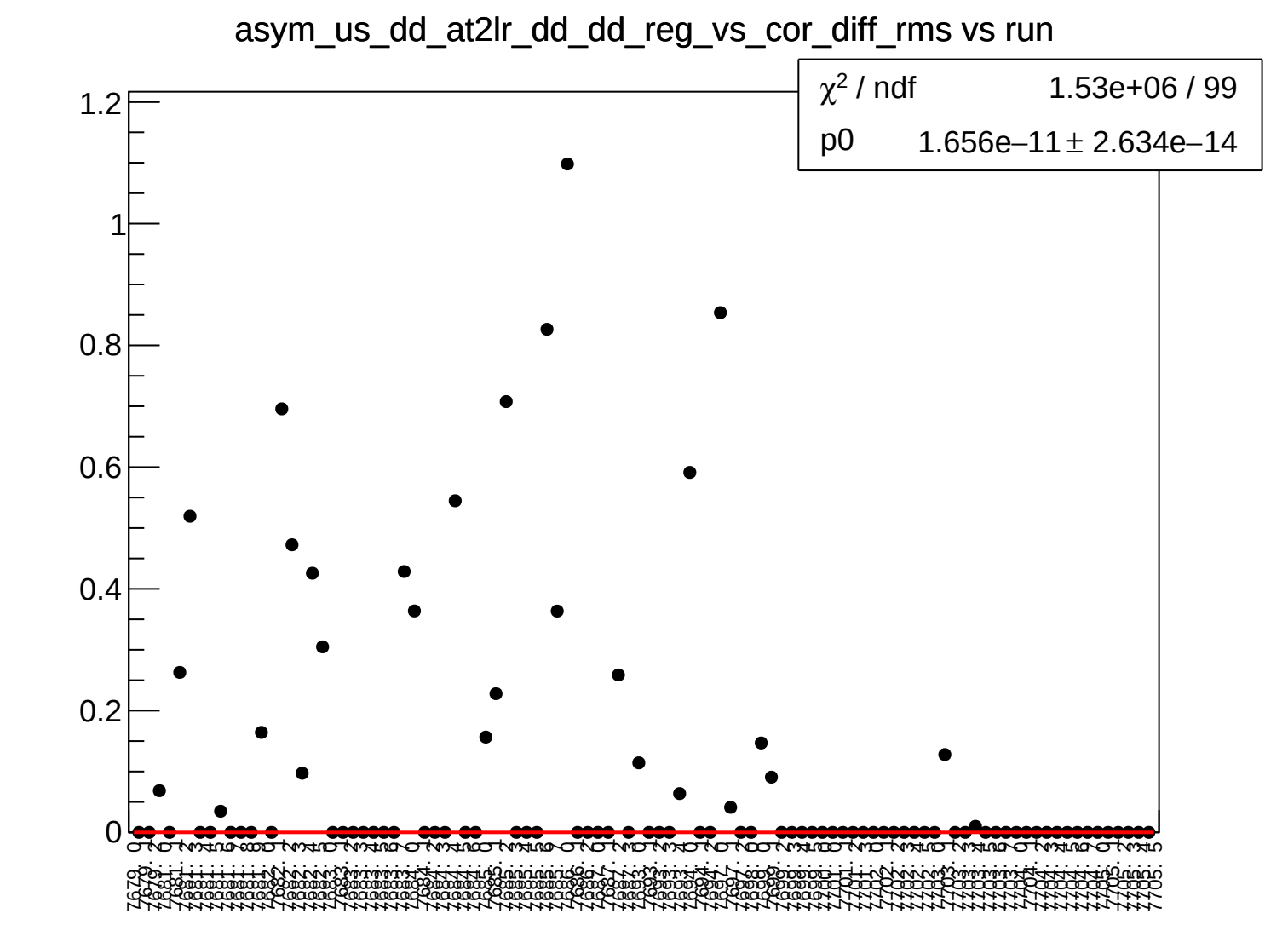

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3315 / 99
p0 845.7 ± 0.61
950
900
850
800
750

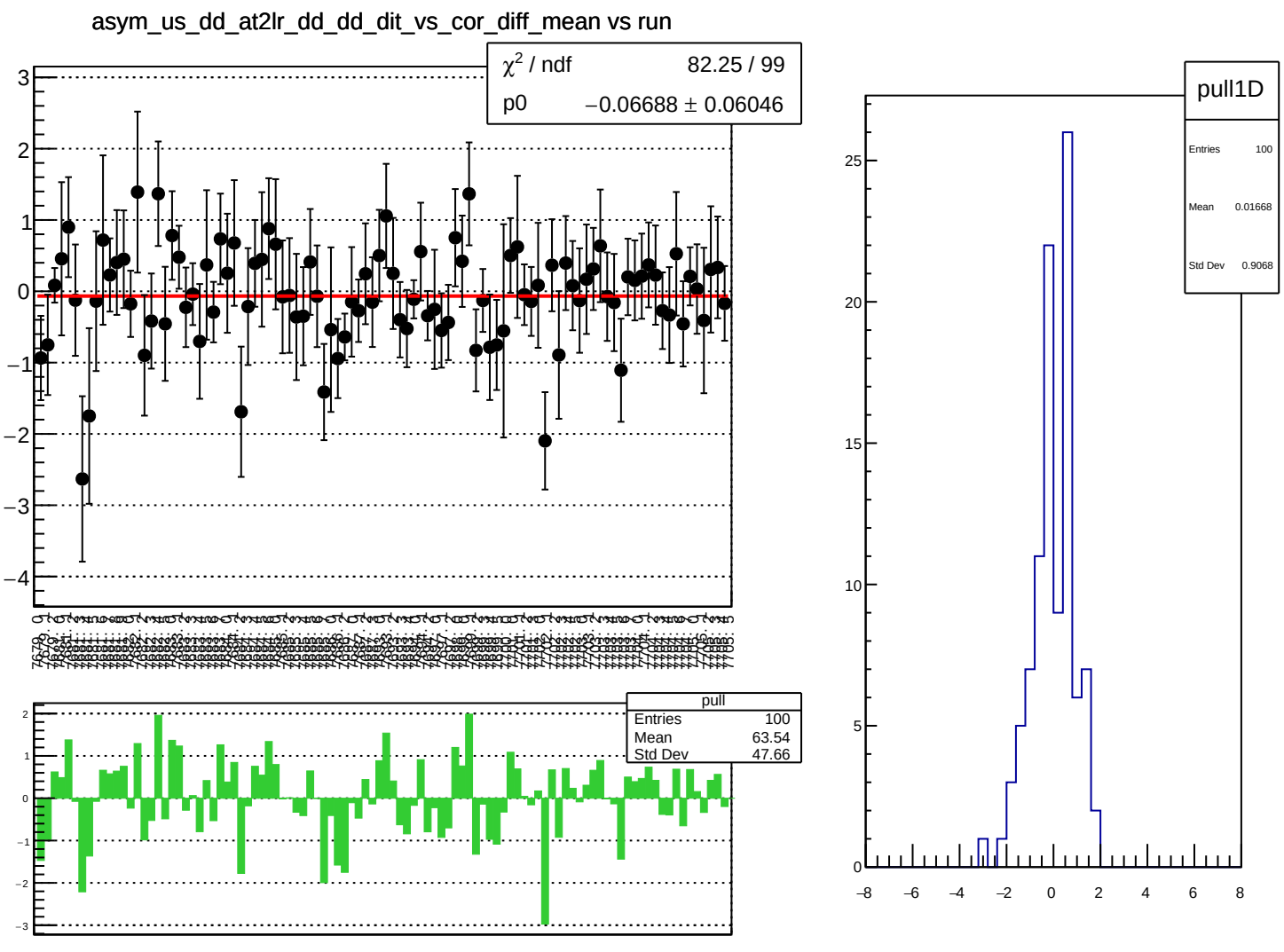

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 77.08 / 99
p0 −959.8 ± 1960
pull
Entries 100
Mean 154
Std Dev 0

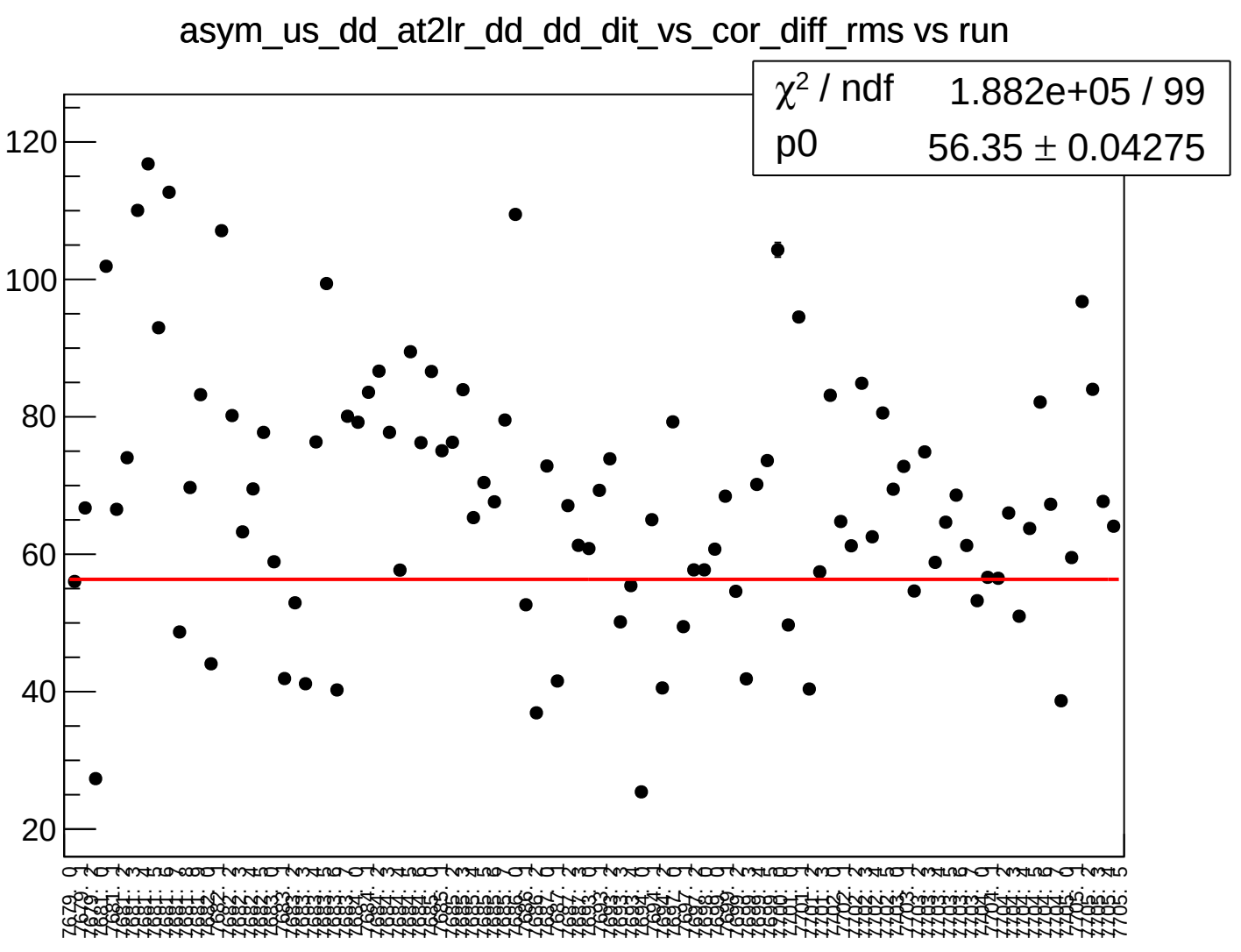

pull1D
Entries 100
Mean −0.00714
Std Dev 0.8779

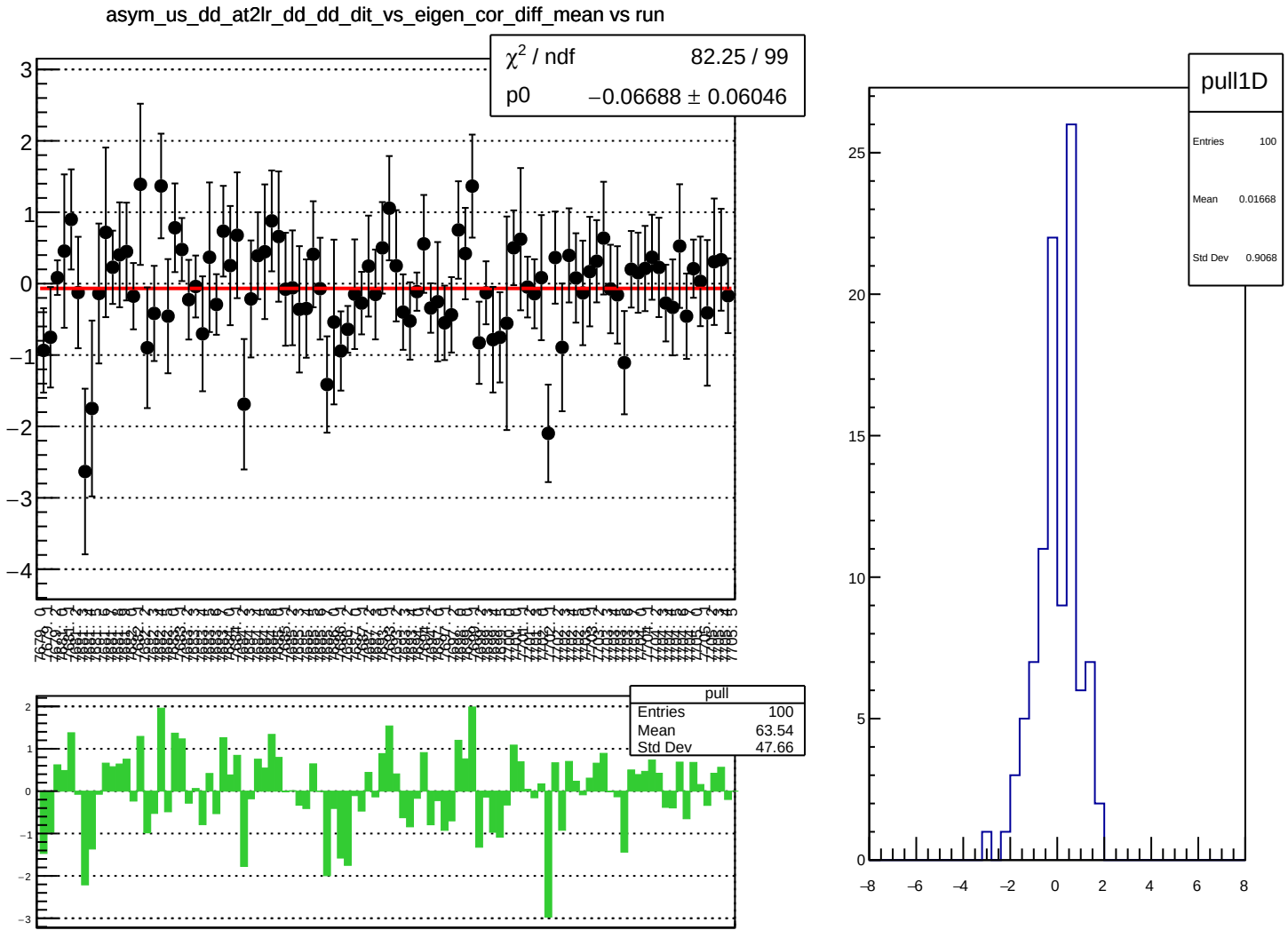

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1.273e+04 / 99
p0 1917 ± 1.386
2100
2000
1900
1800
1700

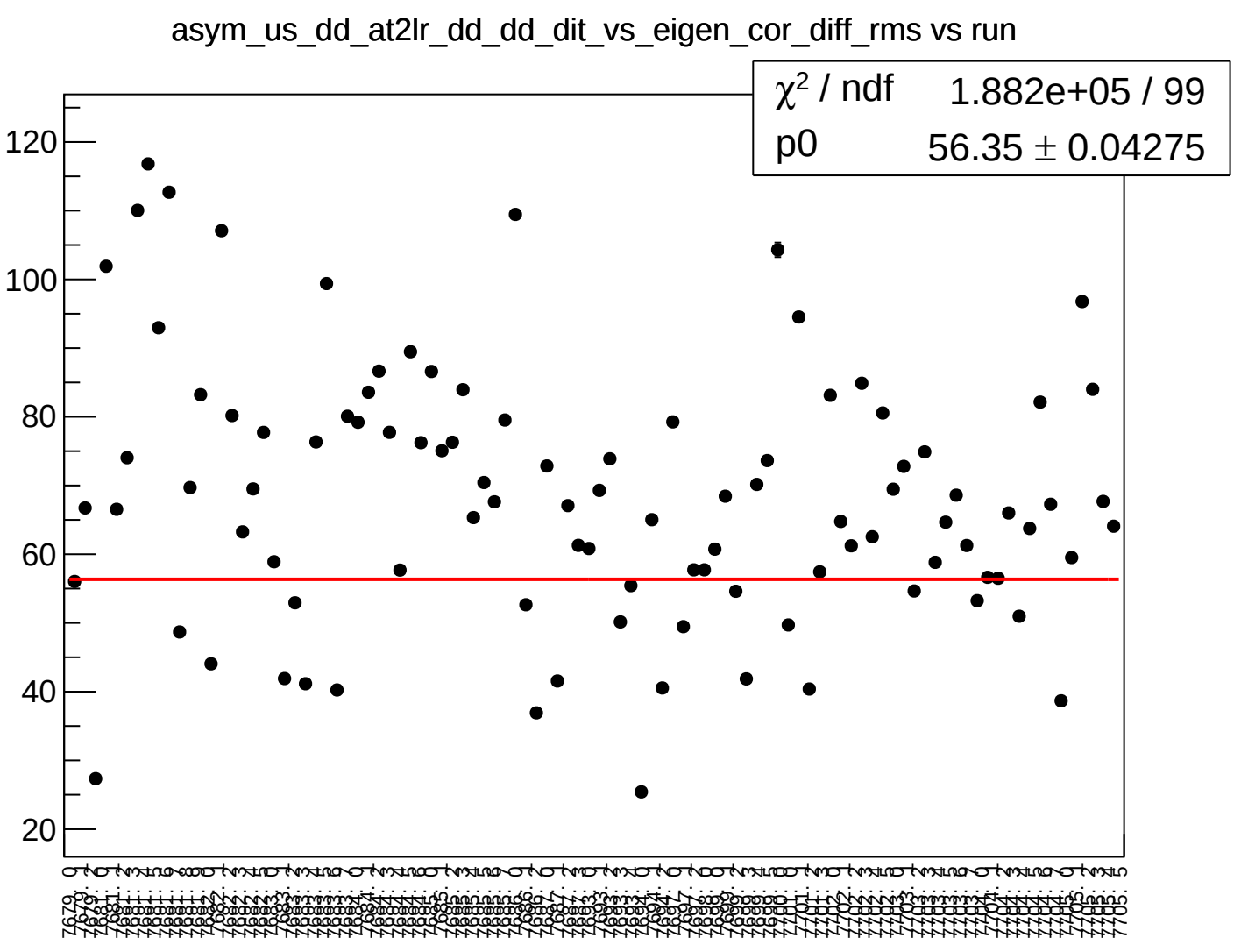

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 111.1 / 99
p0 −3.834e−14 ± 3.725e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 100
Mean 68.15
Std Dev 49.09
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.05472
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

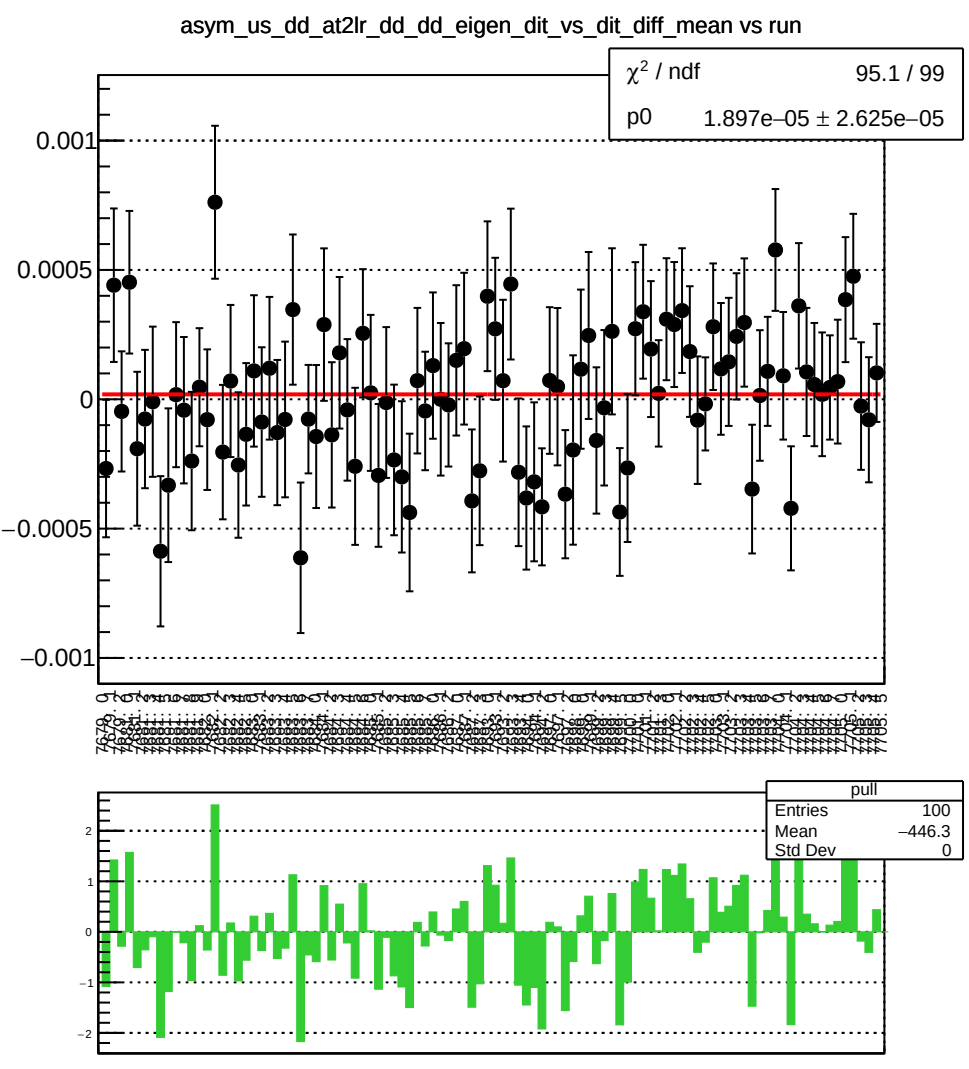

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.53e+06 / 99
p0 1.656e−11 ± 2.634e−14
1.2
1
0.8
0.6
0.4
0.2
0

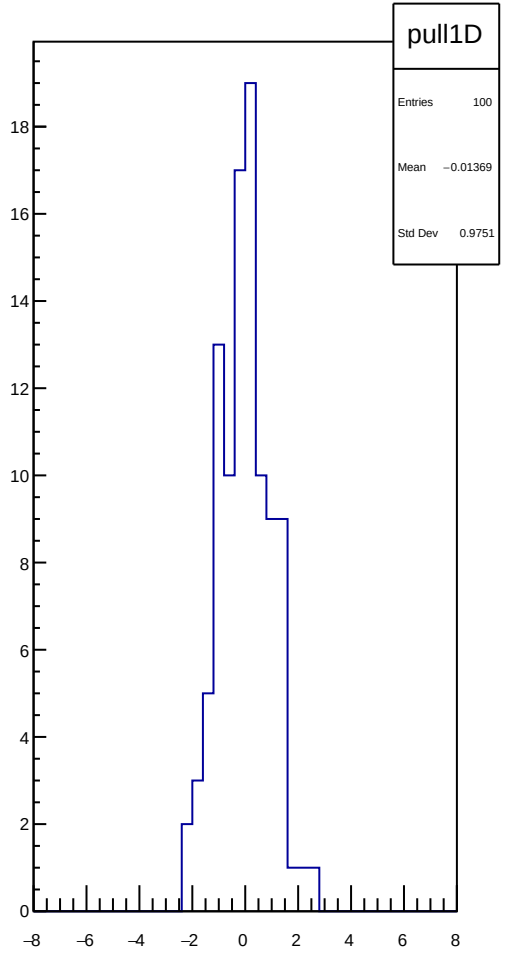

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 82.25 / 99
p0 −0.06688 ± 0.06046
pull
Entries 100
Mean 63.54
Std Dev 47.66
pull1D
Entries 100
Mean 0.01668
Std Dev 0.9068

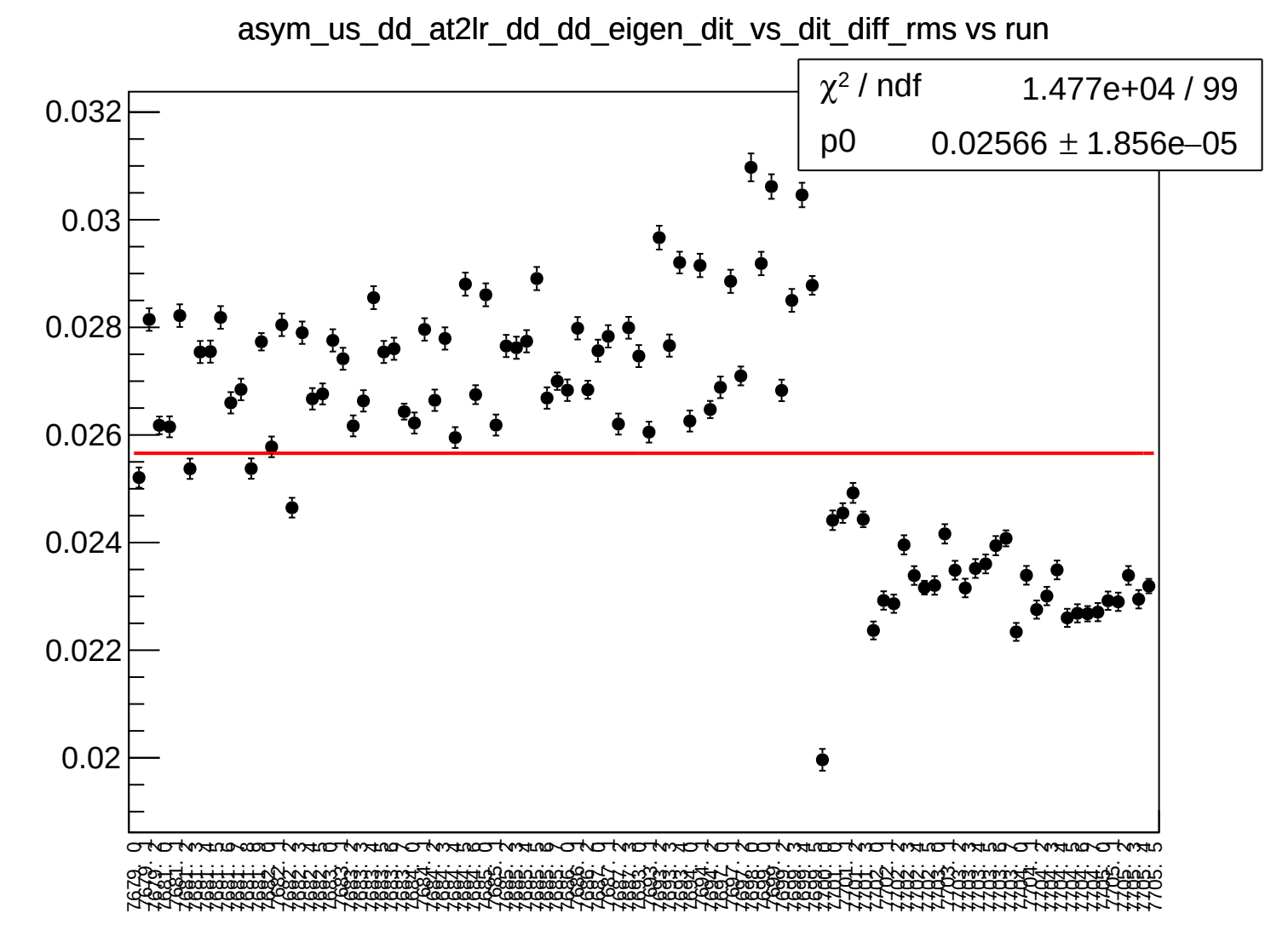

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.882e+05 / 99
p0 56.35 ± 0.04275
120
100
80
60
40
20

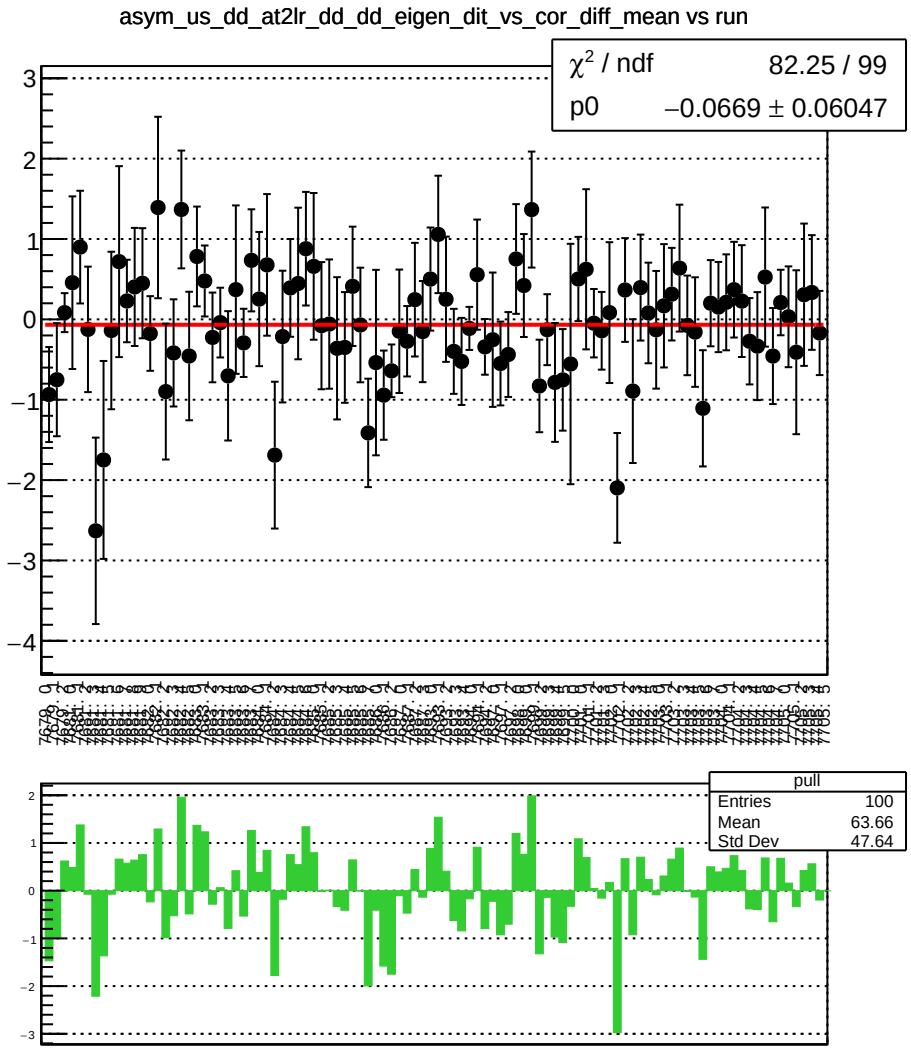

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.25 / 99
p0 −0.06688 ± 0.06046
pull
Entries 100
Mean 63.54
Std Dev 47.66
pull1D
Entries 100
Mean 0.01668
Std Dev 0.9068

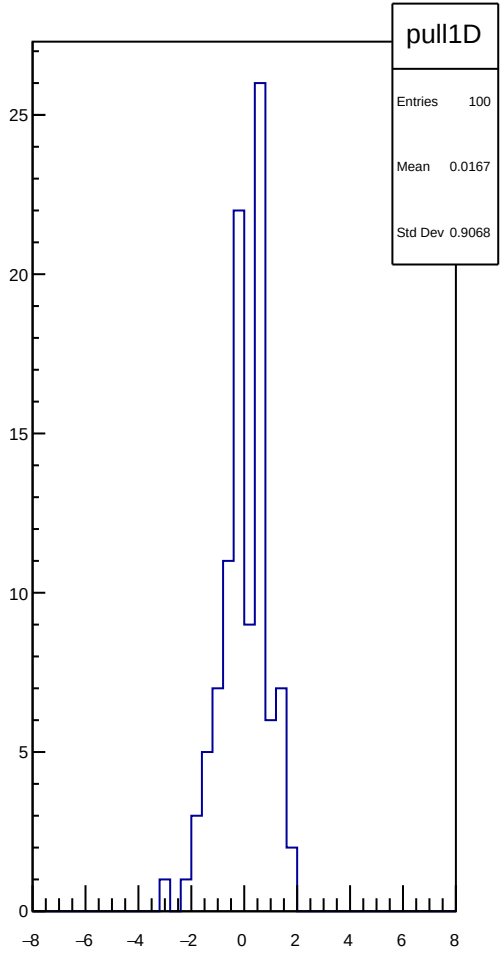

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.882e+05 / 99
p0 56.35 ± 0.04275
120
100
80
60
40
20

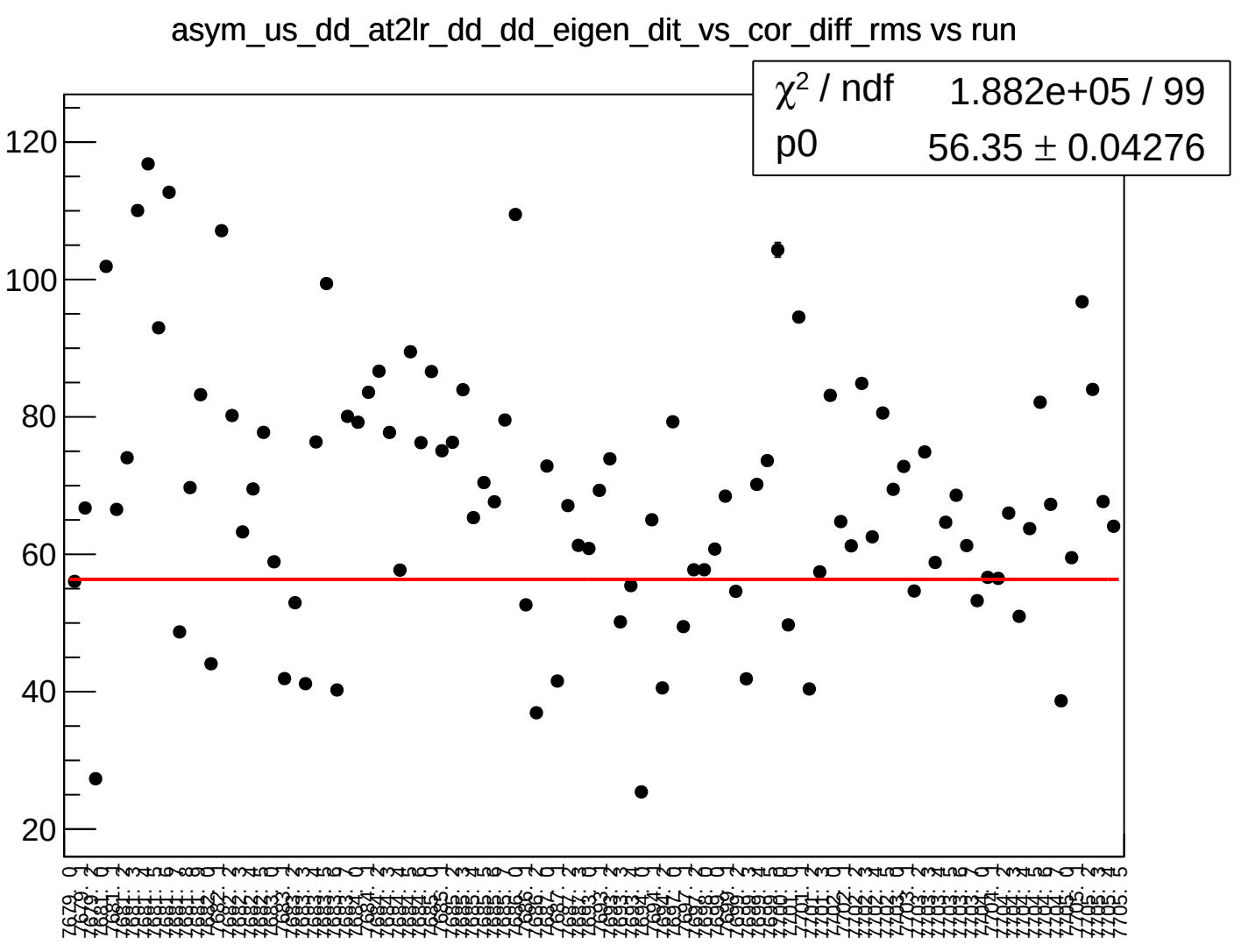

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 95.1 / 99
p0 1.897e−05 ± 2.625e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 100
Mean −446.3
Std Dev 0
2
1
0
−1
−2

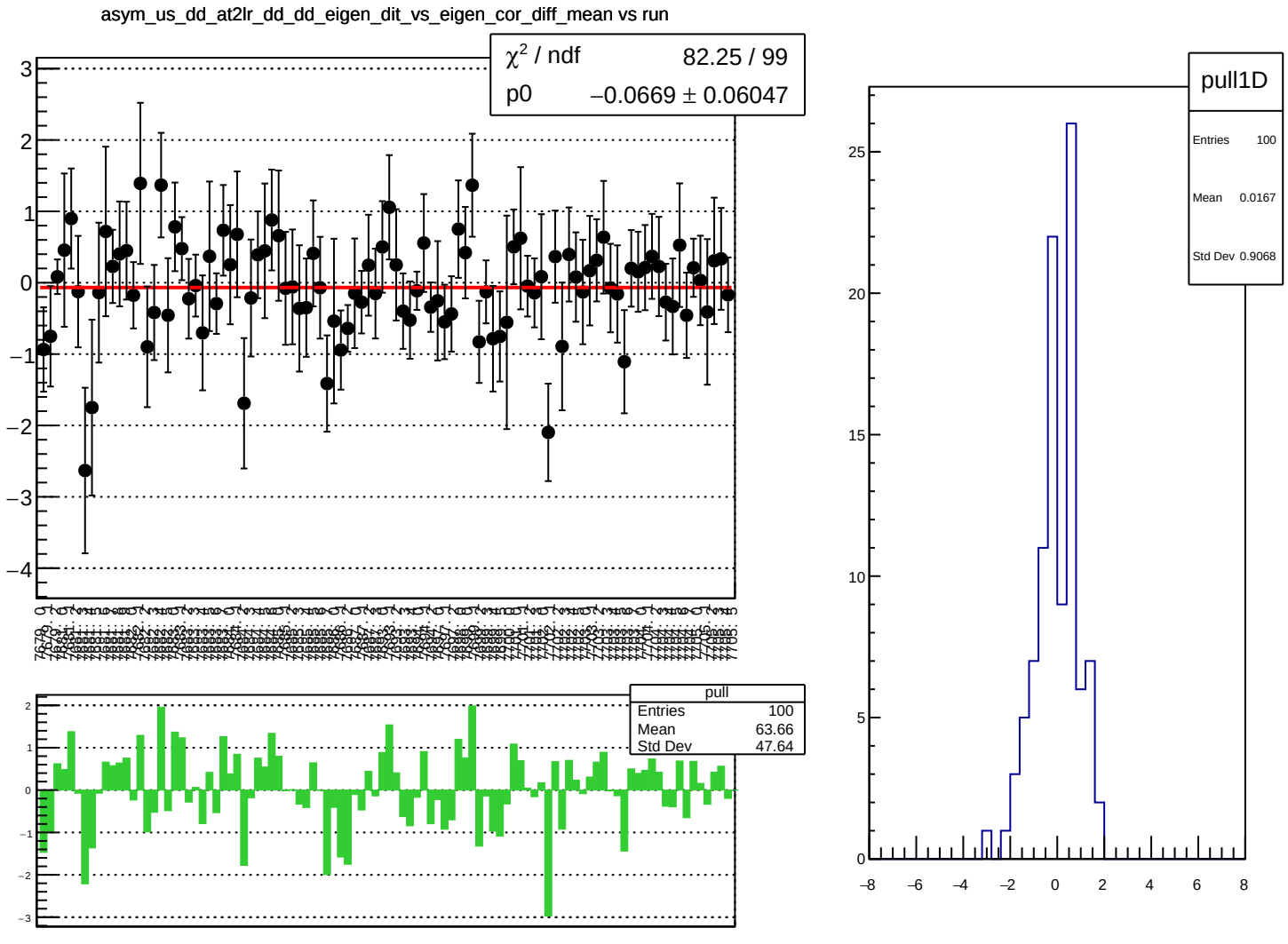

pull1D
Entries 100
Mean −0.01369
Std Dev 0.9751
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

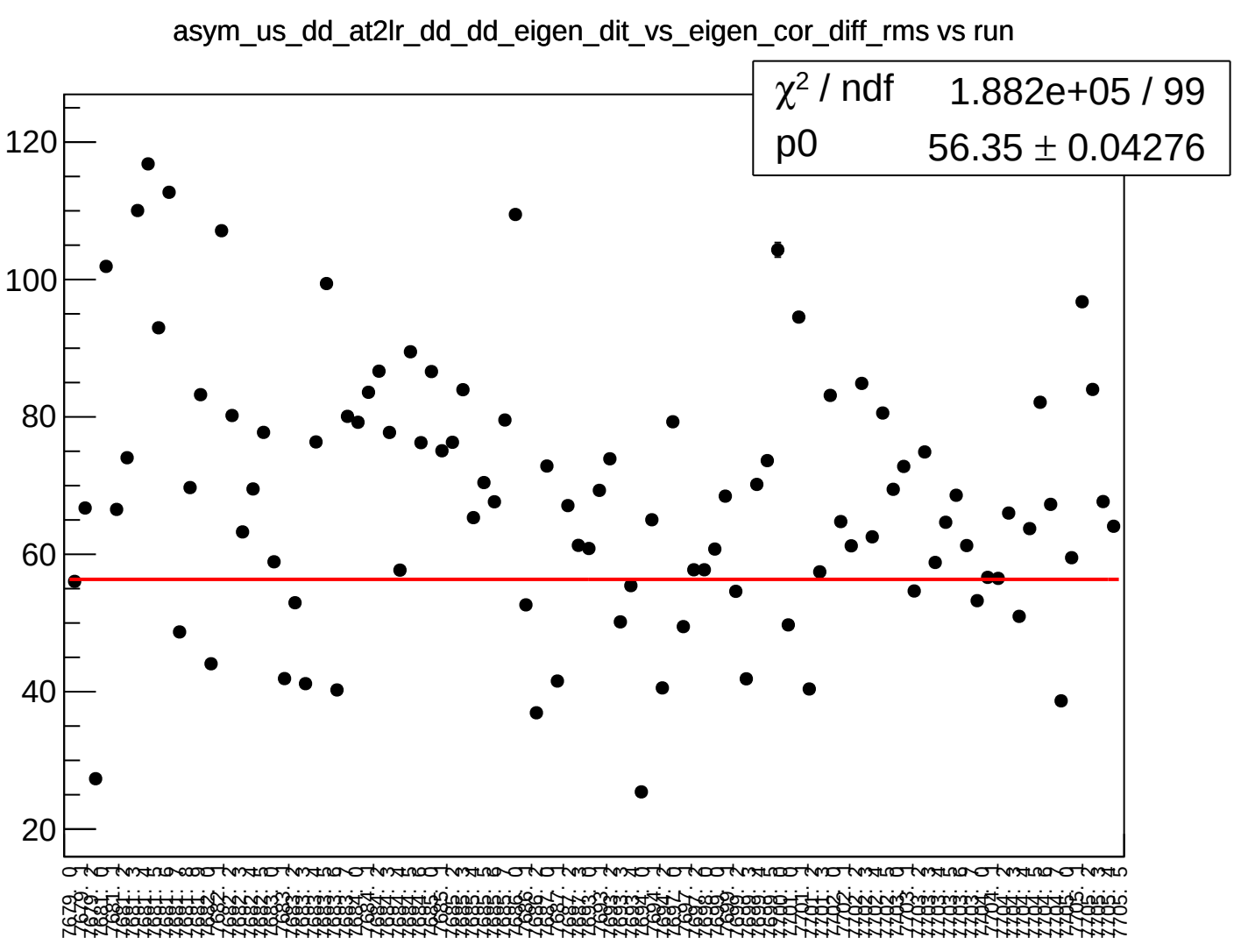

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.477e+04 / 99
p0 0.02566 ± 1.856e−05
0.032
0.03
0.028
0.026
0.024
0.022
0.02

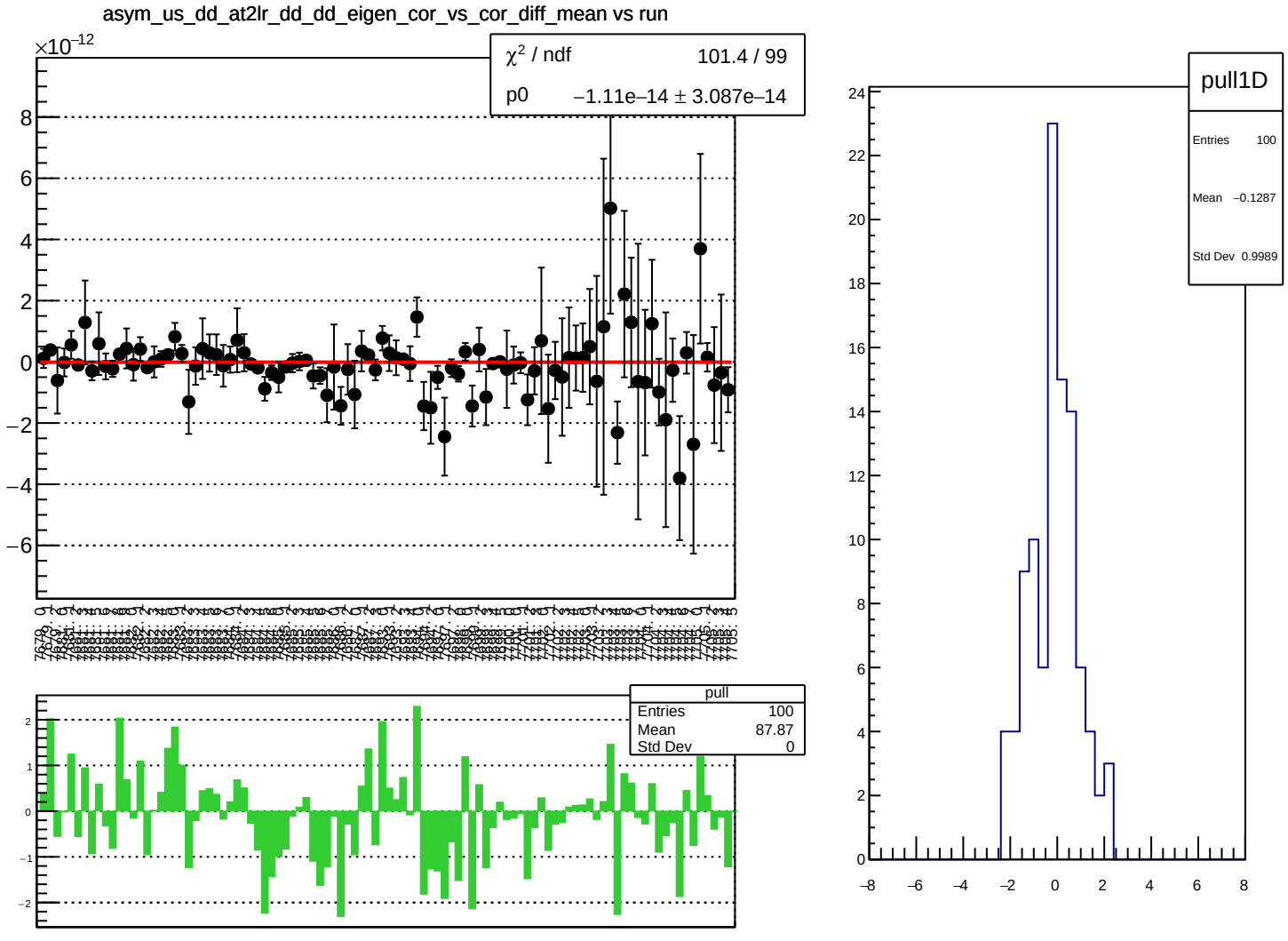

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.25 / 99
p0 −0.0669 ± 0.06047
pull
Entries 100
Mean 63.66
Std Dev 47.64

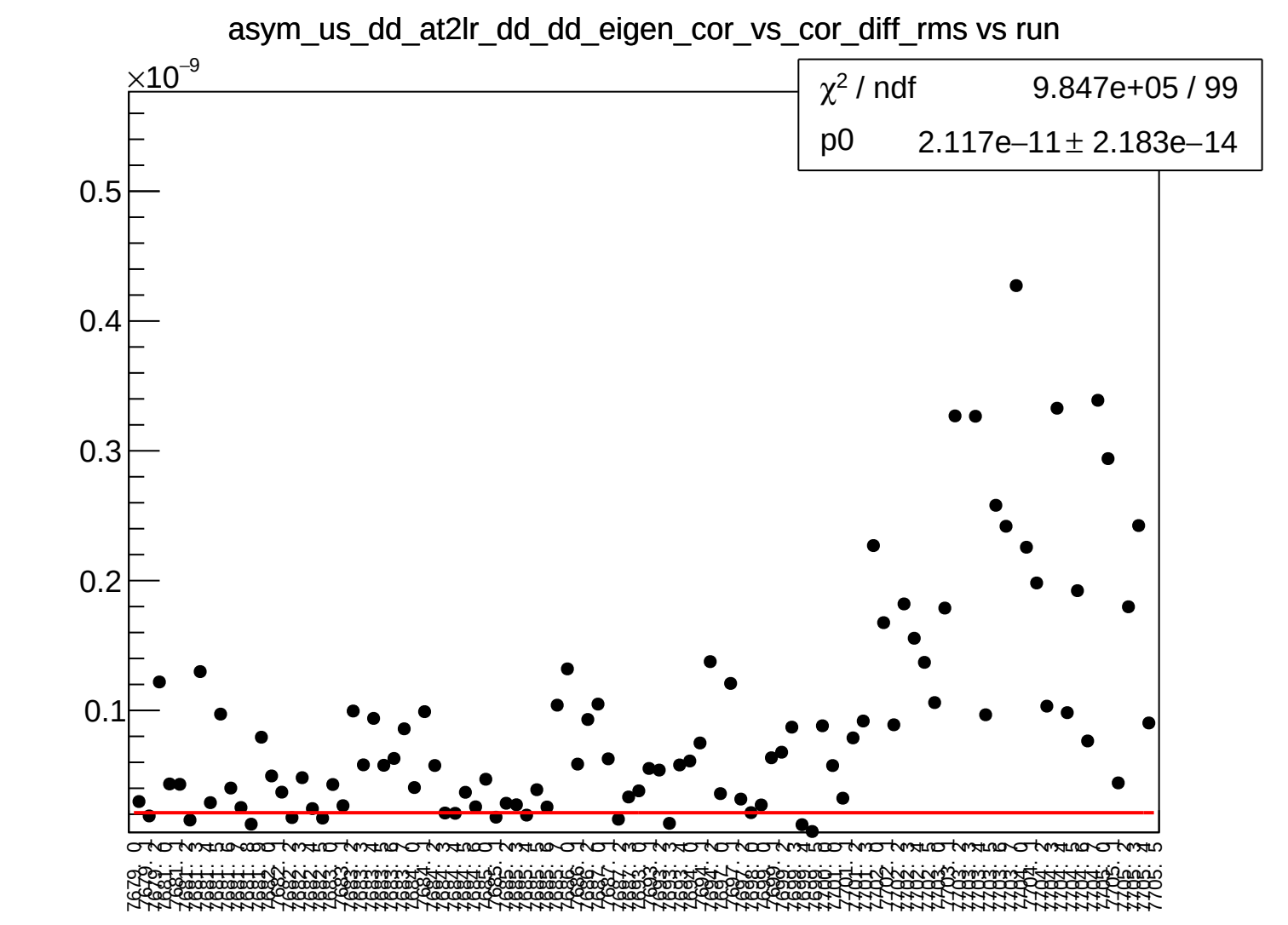

pull1D
Entries 100
Mean 0.0167
Std Dev 0.9068

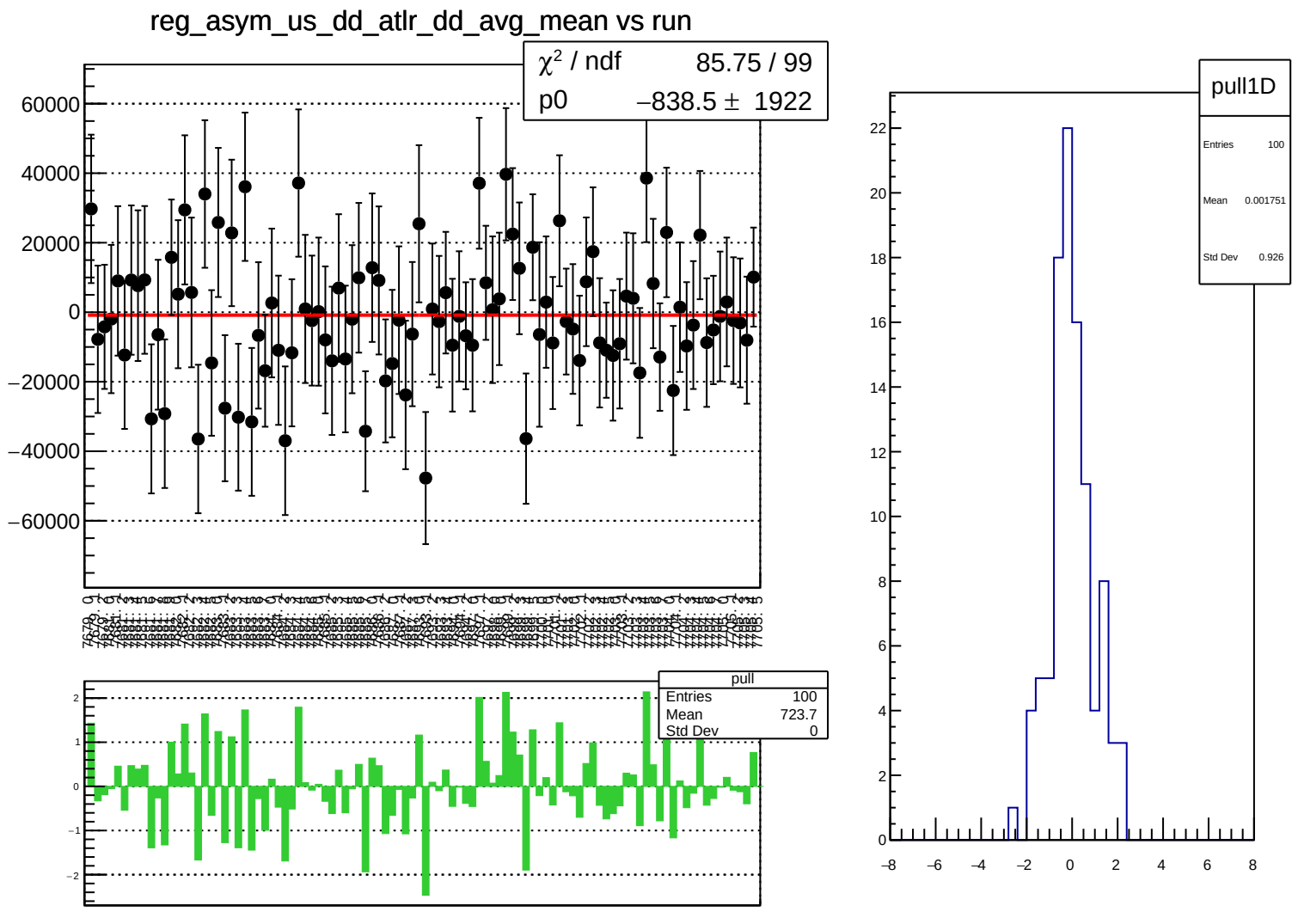

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.882e+05 / 99
p0 56.35 ± 0.04276
120
100
80
60
40
20

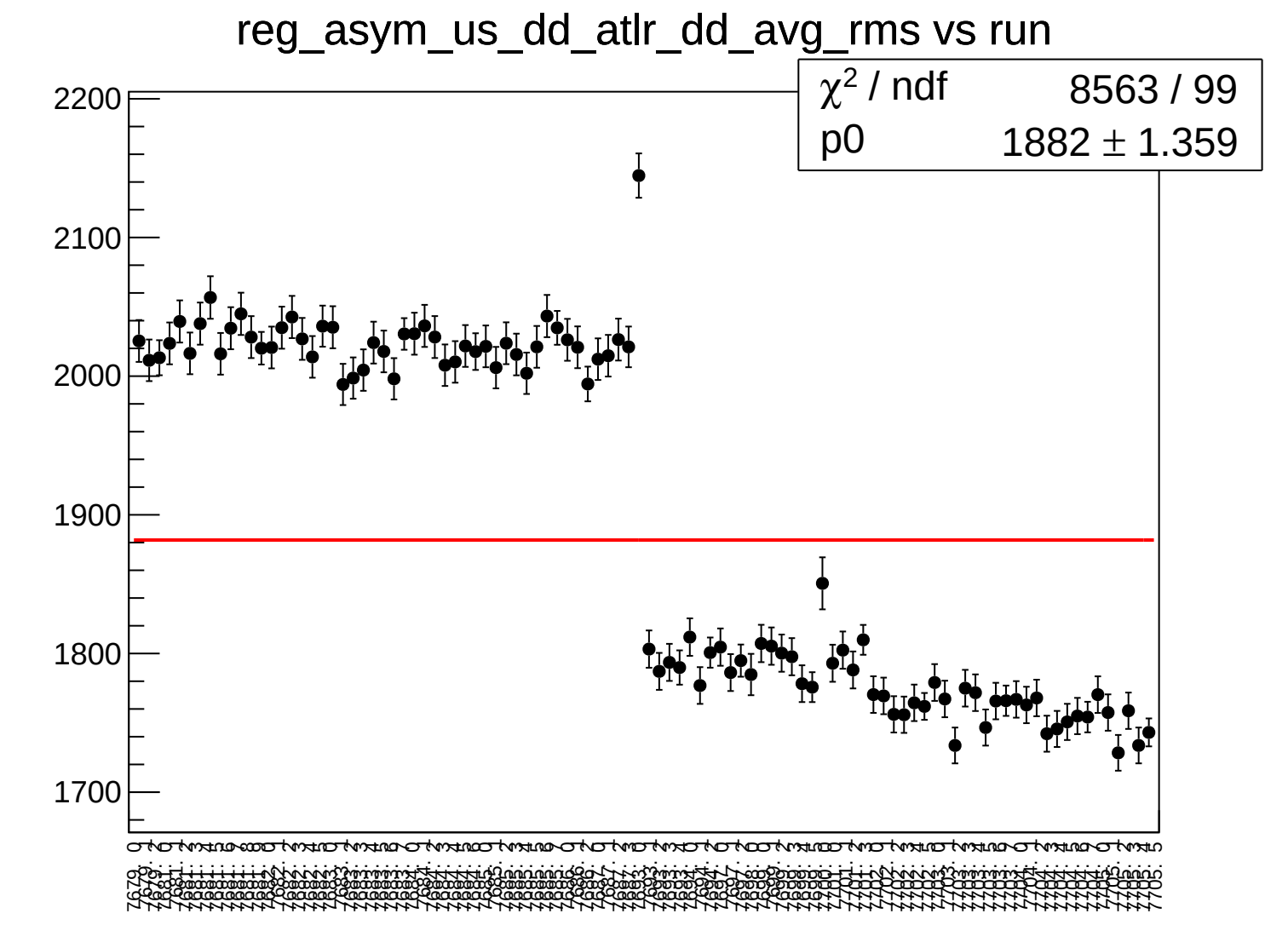

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.25 / 99
p0 −0.0669 ± 0.06047
pull
Entries 100
Mean 63.66
Std Dev 47.64
pull1D
Entries 100
Mean 0.0167
Std Dev 0.9068

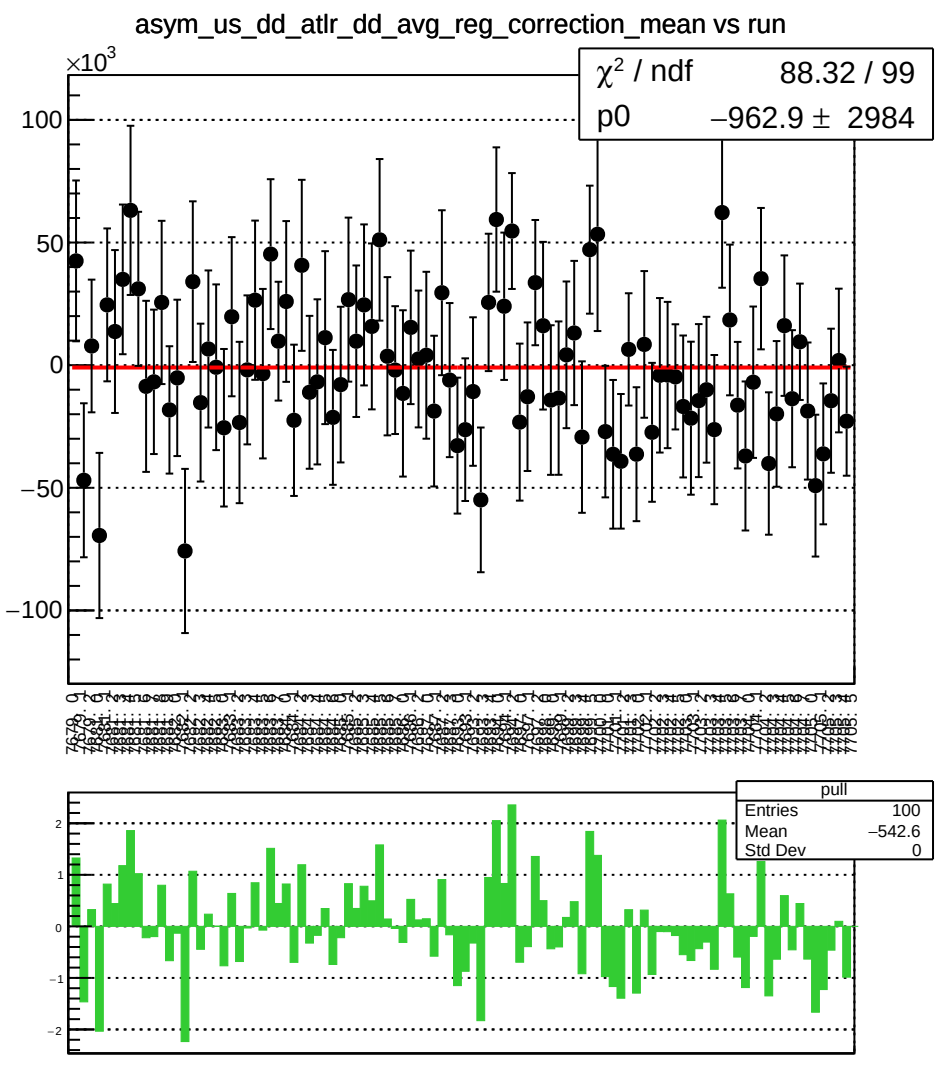

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.882e+05 / 99
p0 56.35 ± 0.04276
120
100
80
60
40
20

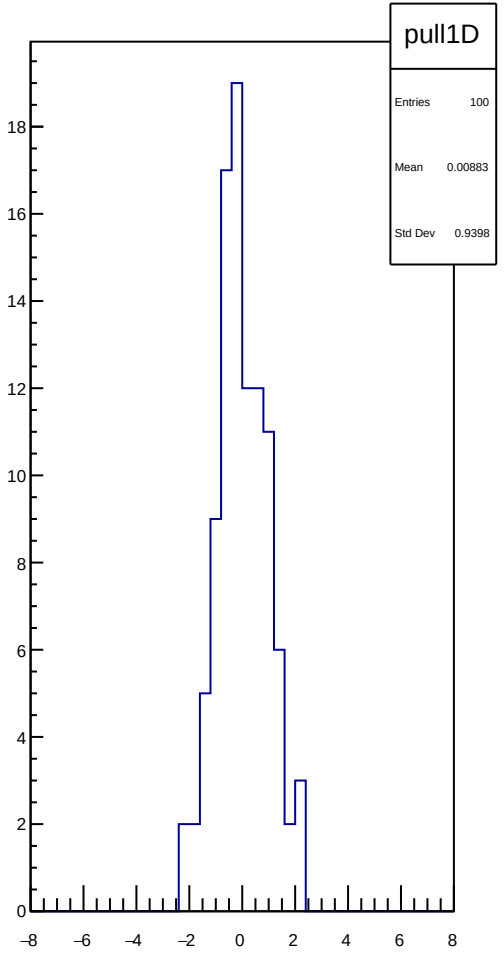

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.4 / 99
p0 −1.11e−14 ± 3.087e−14
pull
Entries 100
Mean 87.87
Std Dev 0
pull1D
Entries 100
Mean −0.1287
Std Dev 0.9989

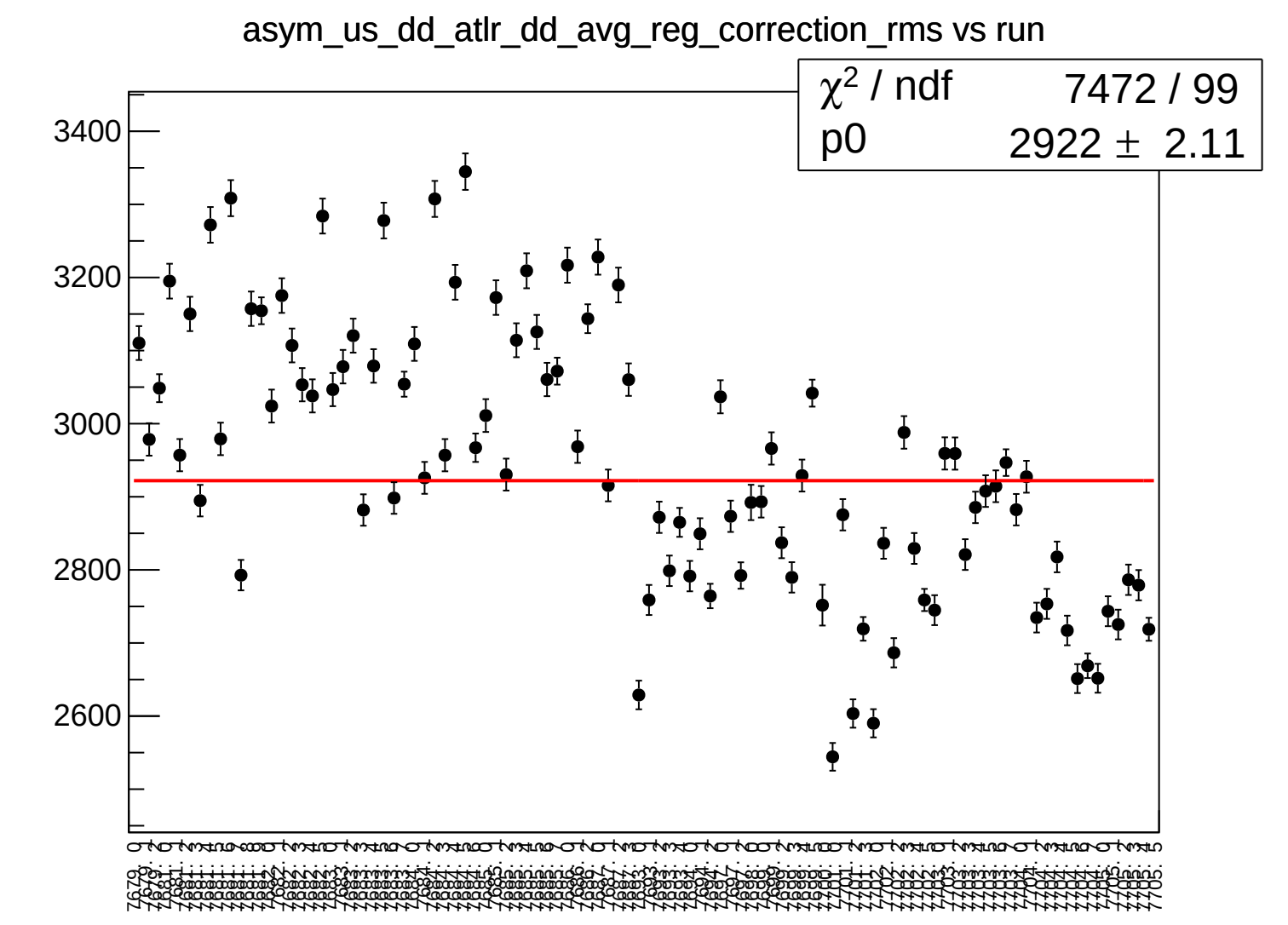

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.847e+05 / 99
p0 2.117e−11 ± 2.183e−14
0.5
0.4
0.3
0.2
0.1

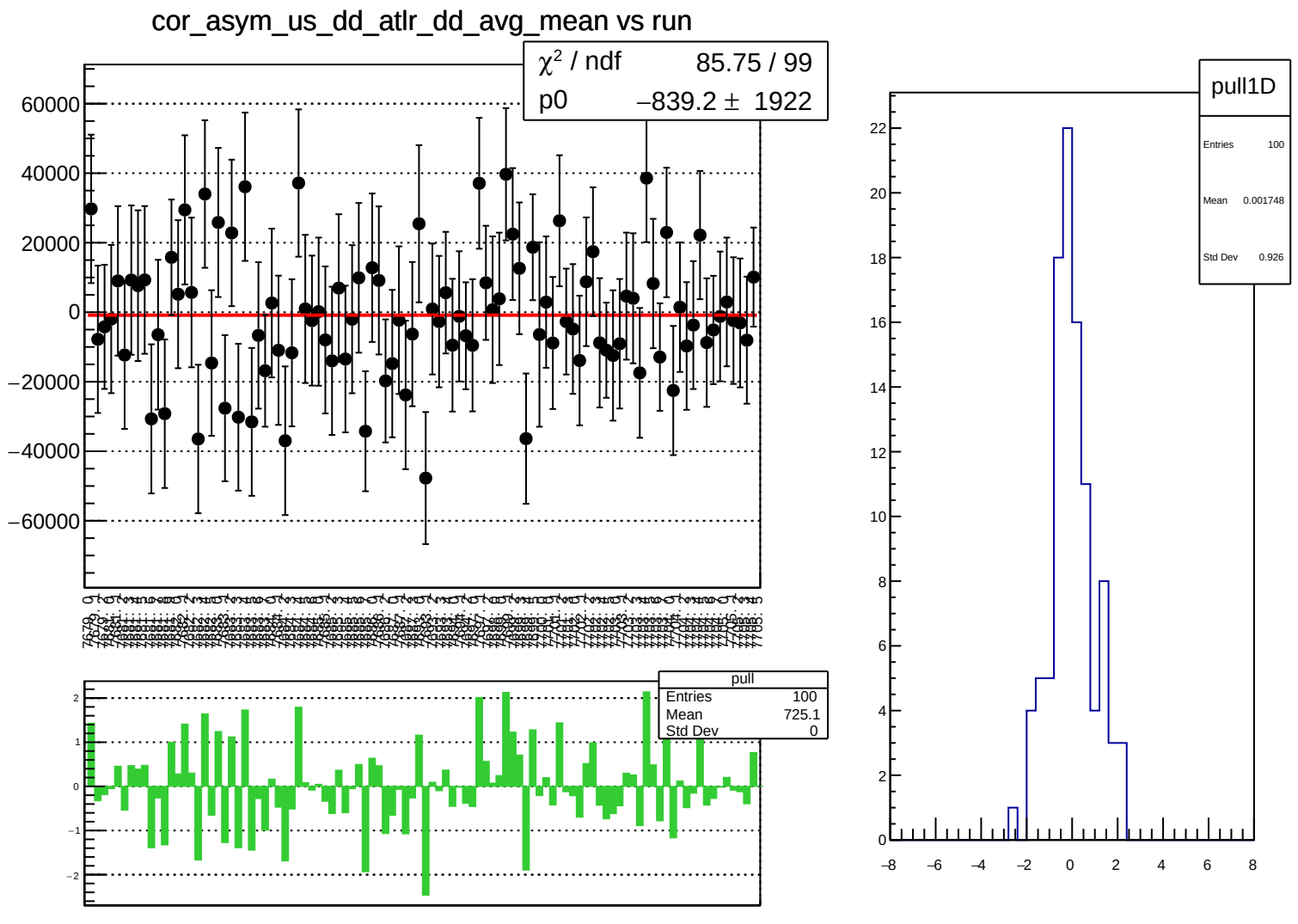

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 85.75 / 99
p0 −838.5 ± 1922
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean 723.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.001751
Std Dev 0.926
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

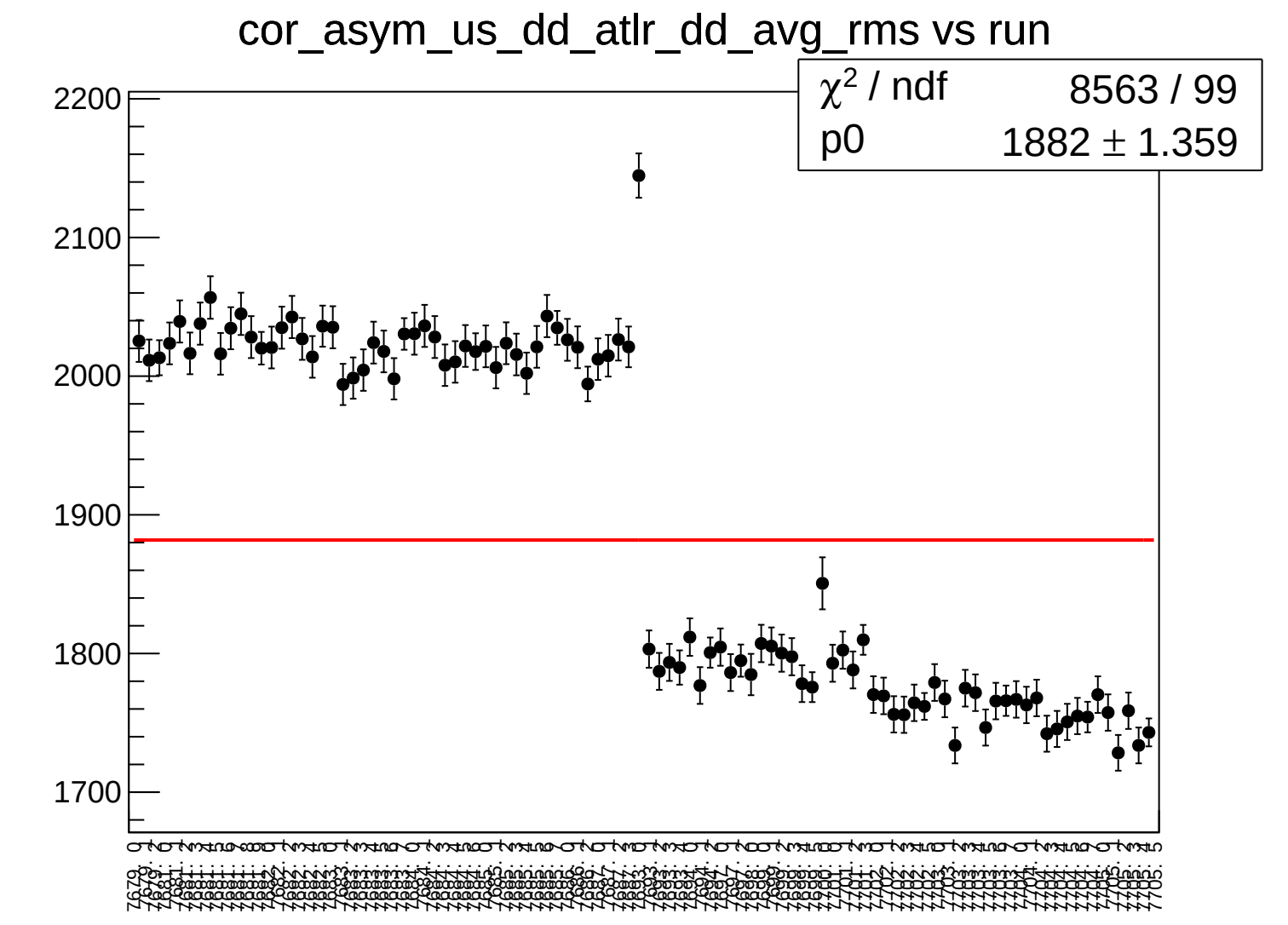

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 8563 / 99
p0 1882 ± 1.359
2200
2100
2000
1900
1800
1700

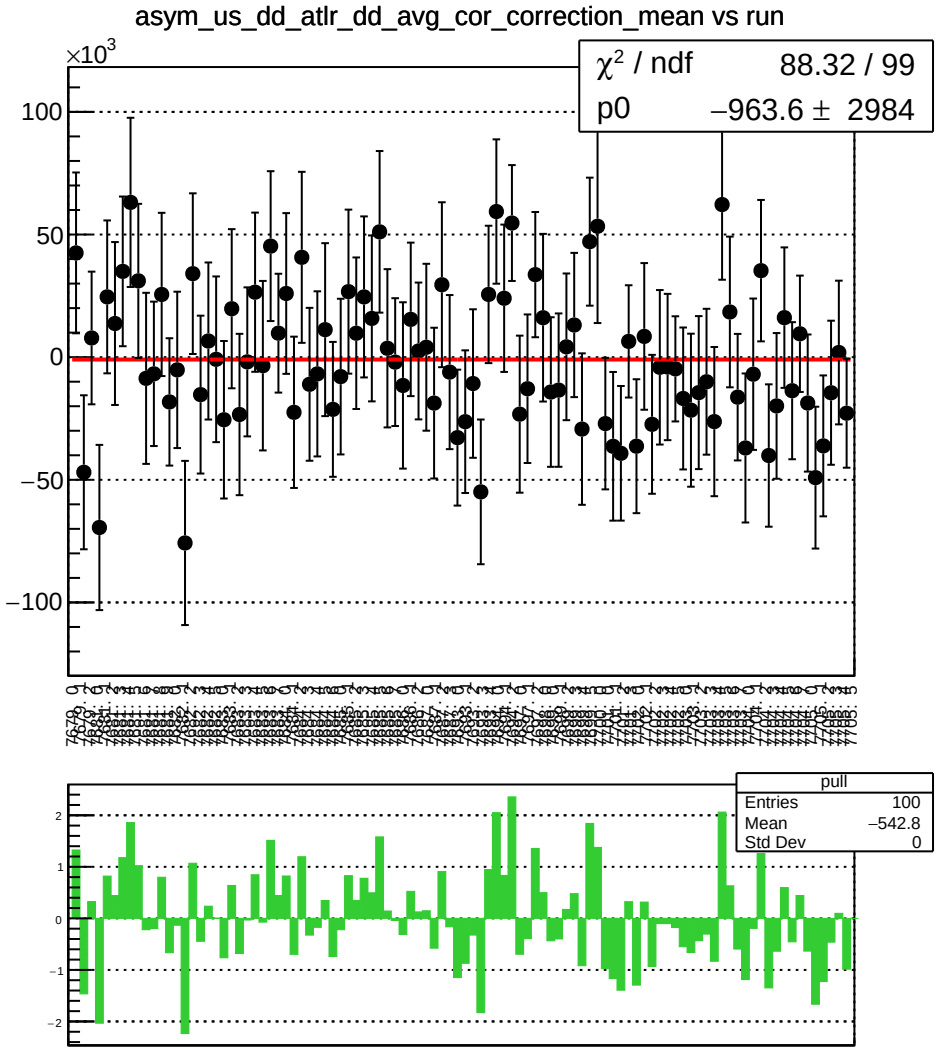

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 88.32 / 99
p0 −962.9 ± 2984
100
50
0
−50
−100
pull
Entries 100
Mean −542.6
Std Dev 0
2
1
0
−1
−2

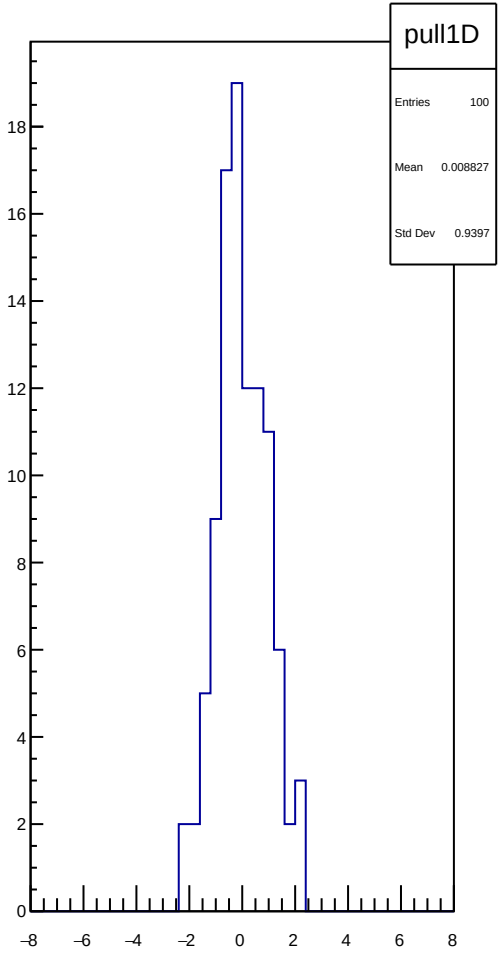

pull1D
Entries 100
Mean 0.00883
Std Dev 0.9398
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

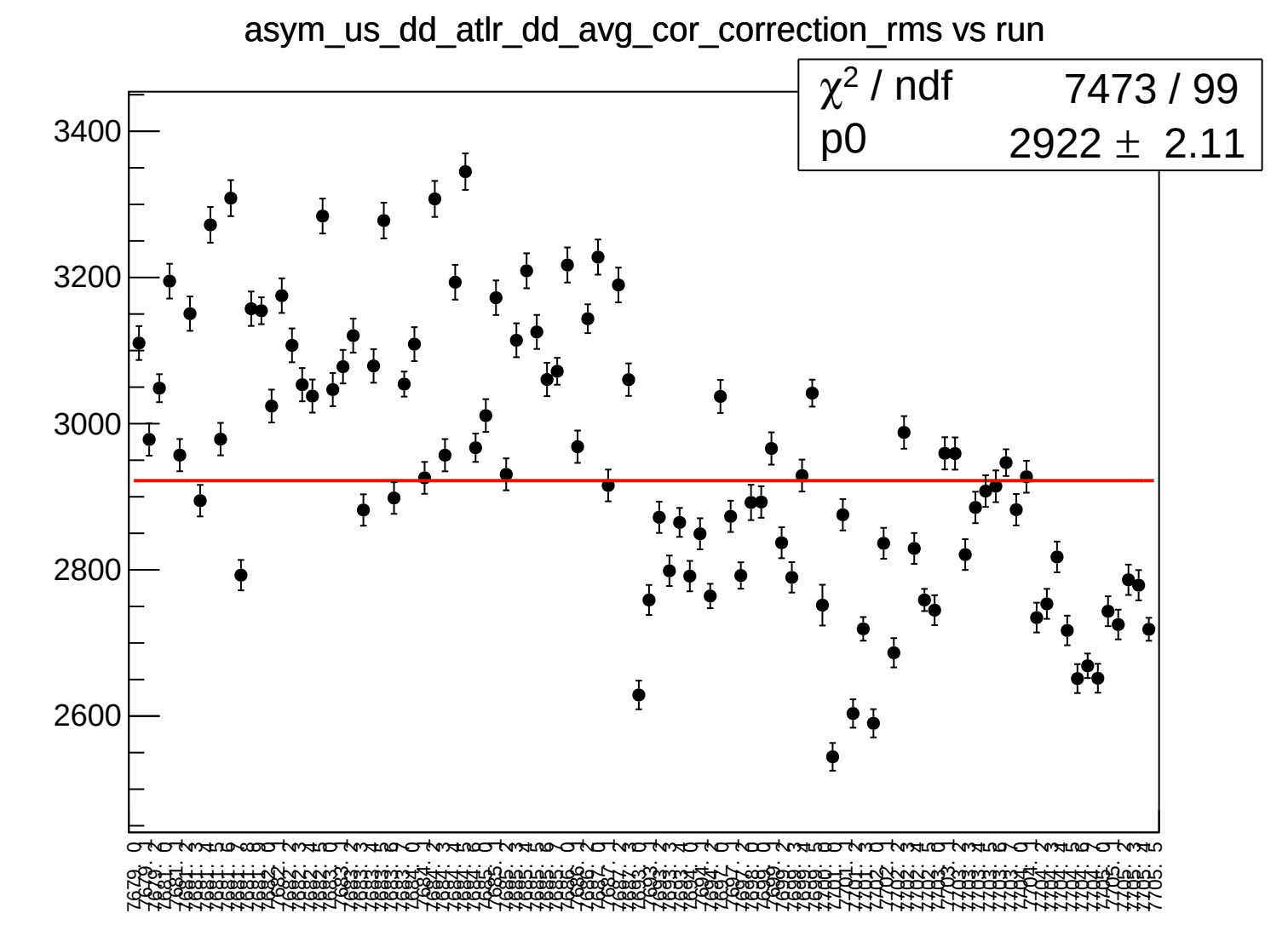

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 7472 / 99
p0 2922 ± 2.11
3400
3200
3000
2800
2600

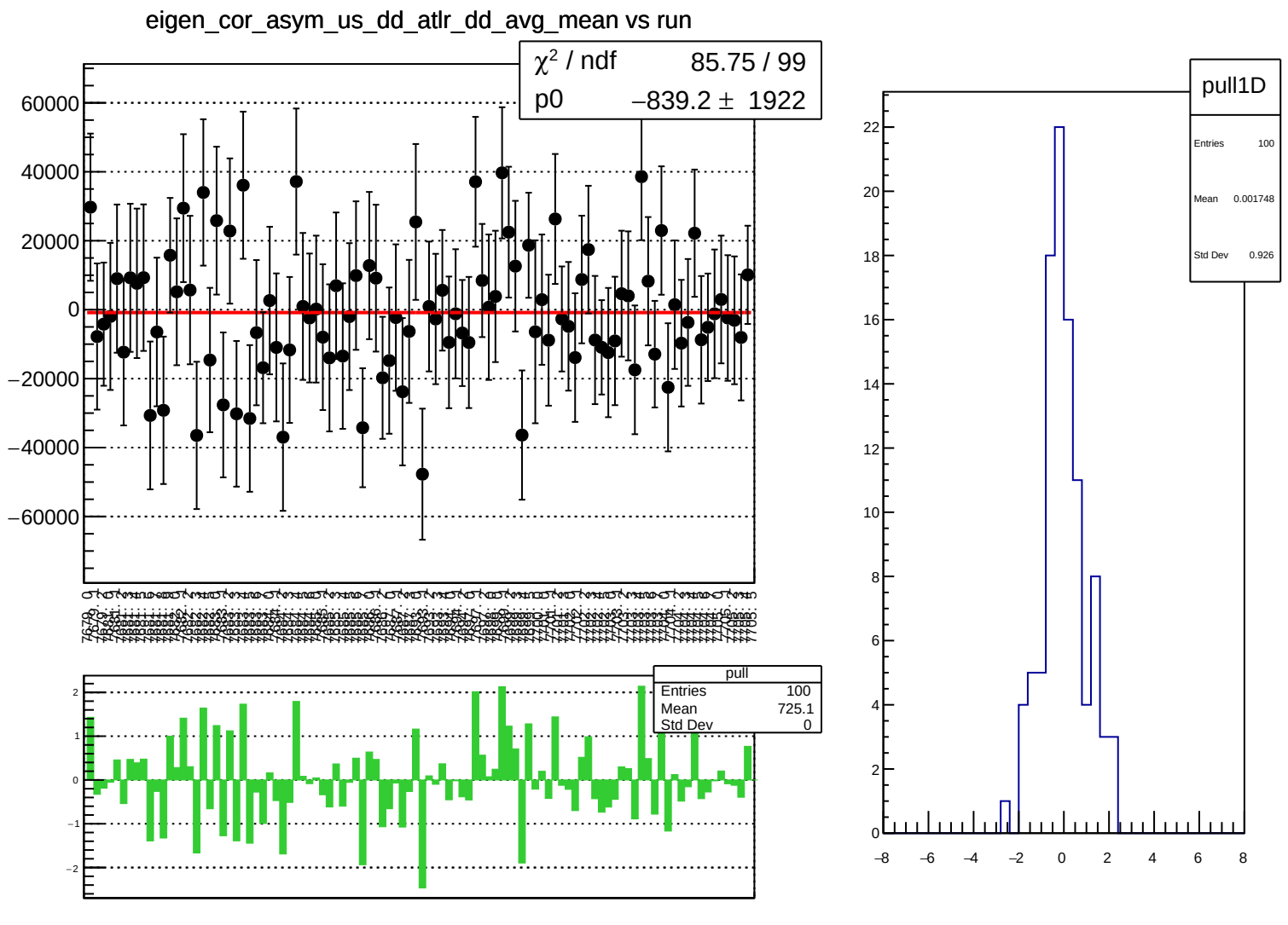

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 85.75 / 99
p0 −839.2 ± 1922
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean 725.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.001748
Std Dev 0.926
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

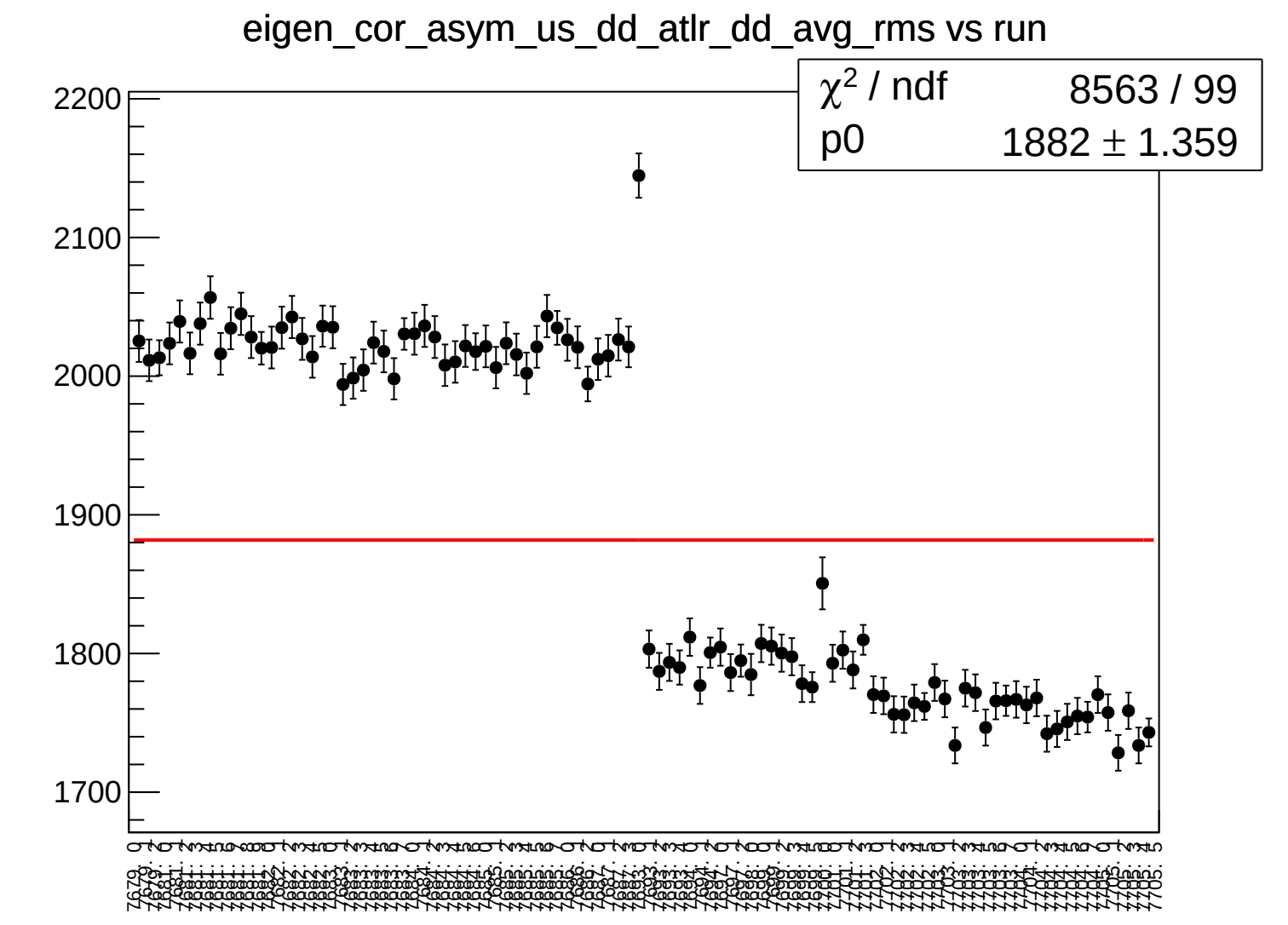

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 8563 / 99
p0 1882 ± 1.359
2200
2100
2000
1900
1800
1700

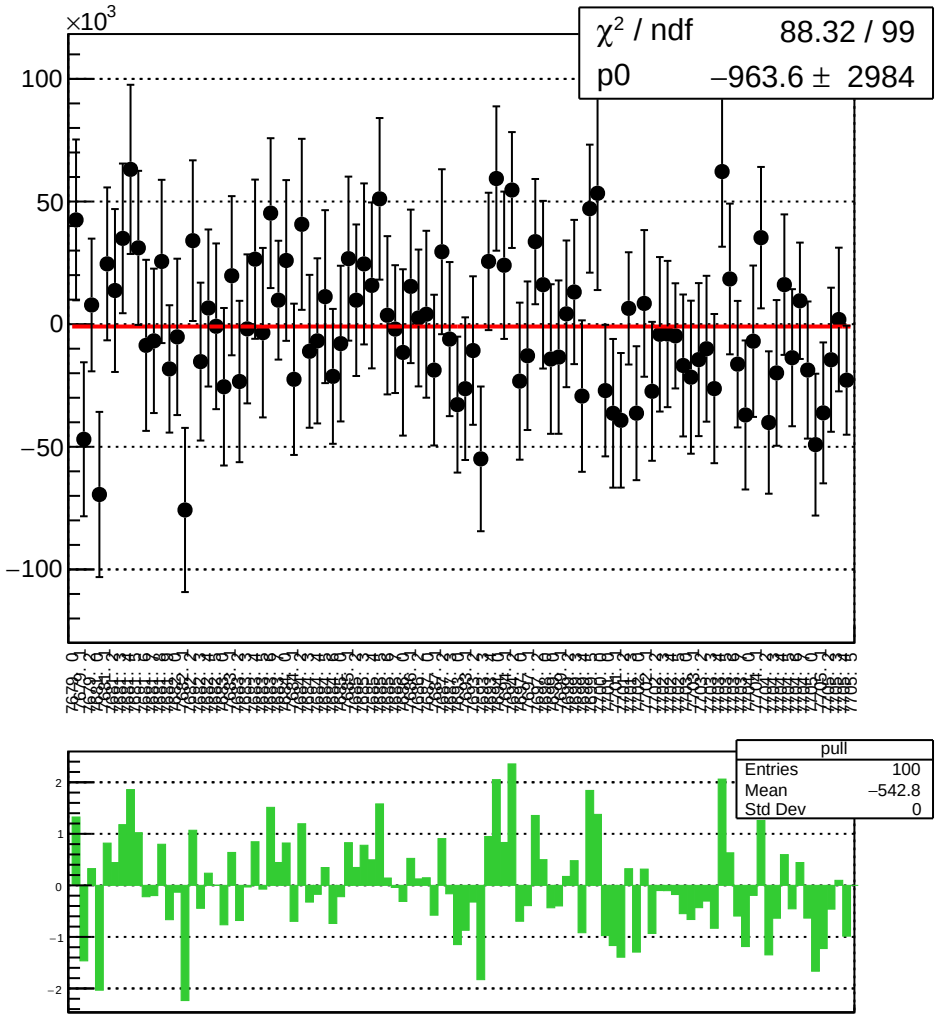

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 88.32 / 99
p0 −963.6 ± 2984
100
50
0
−50
−100
pull
Entries 100
Mean −542.8
Std Dev 0
2
1
0
−1
−2

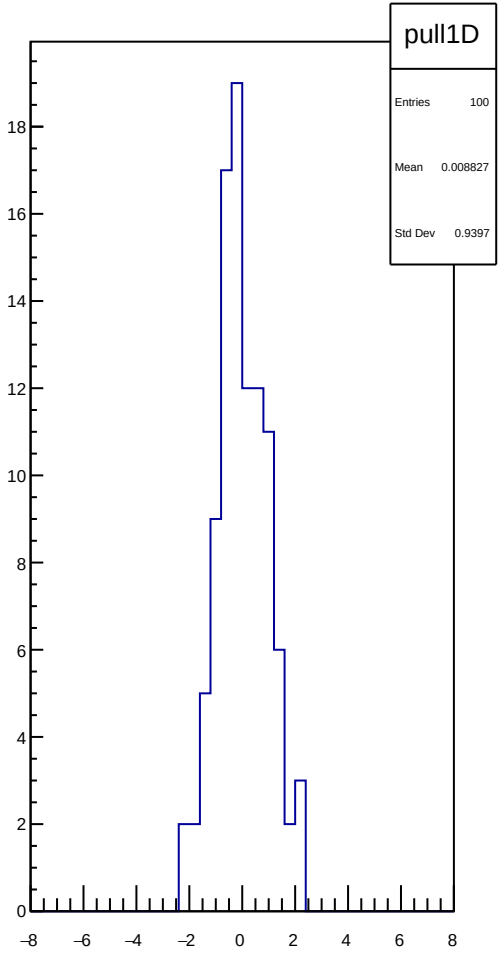

pull1D
Entries 100
Mean 0.008827
Std Dev 0.9397
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

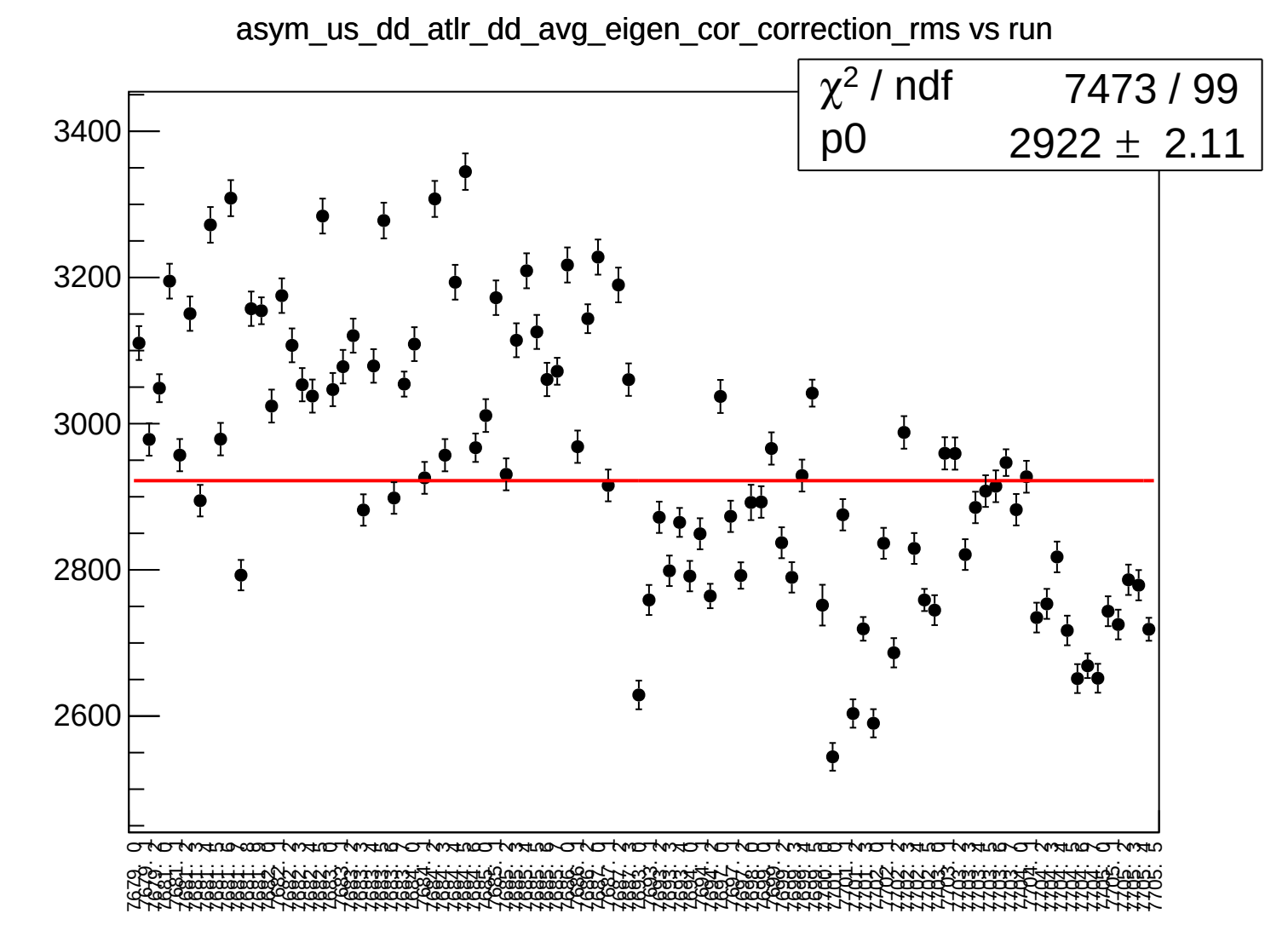

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 7473 / 99
p0 2922 ± 2.11
3400
3200
3000
2800
2600

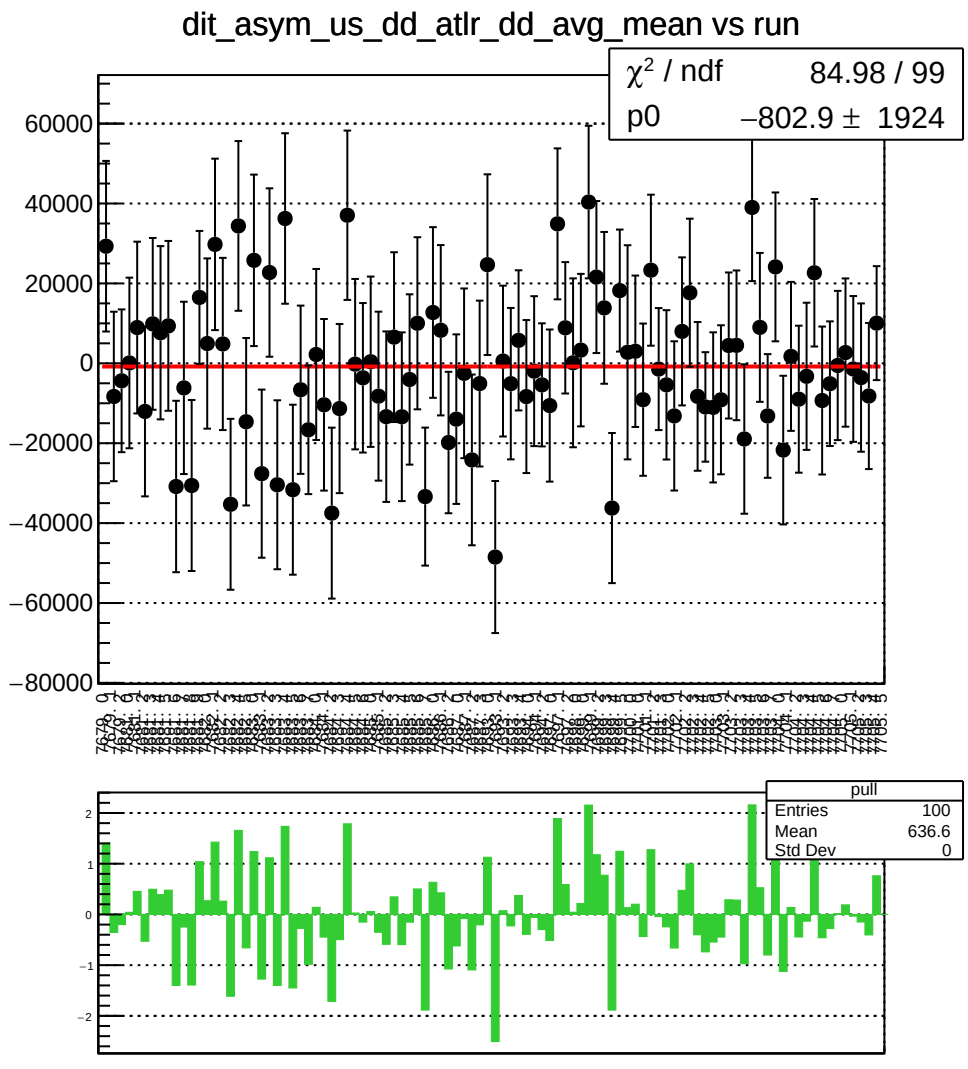

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 85.75 / 99
p0 −839.2 ± 1922
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean 725.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.001748
Std Dev 0.926
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

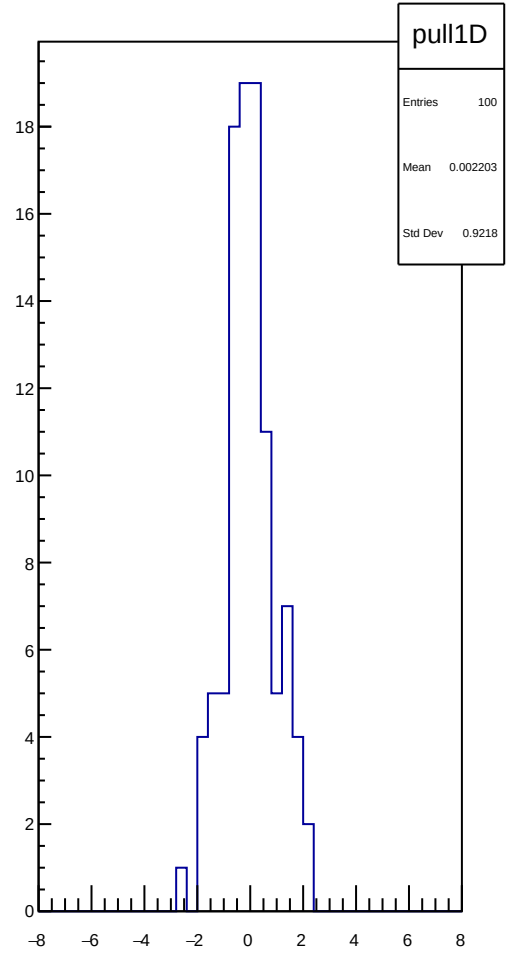

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 8563 / 99
p0 1882 ± 1.359
2200
2100
2000
1900
1800
1700

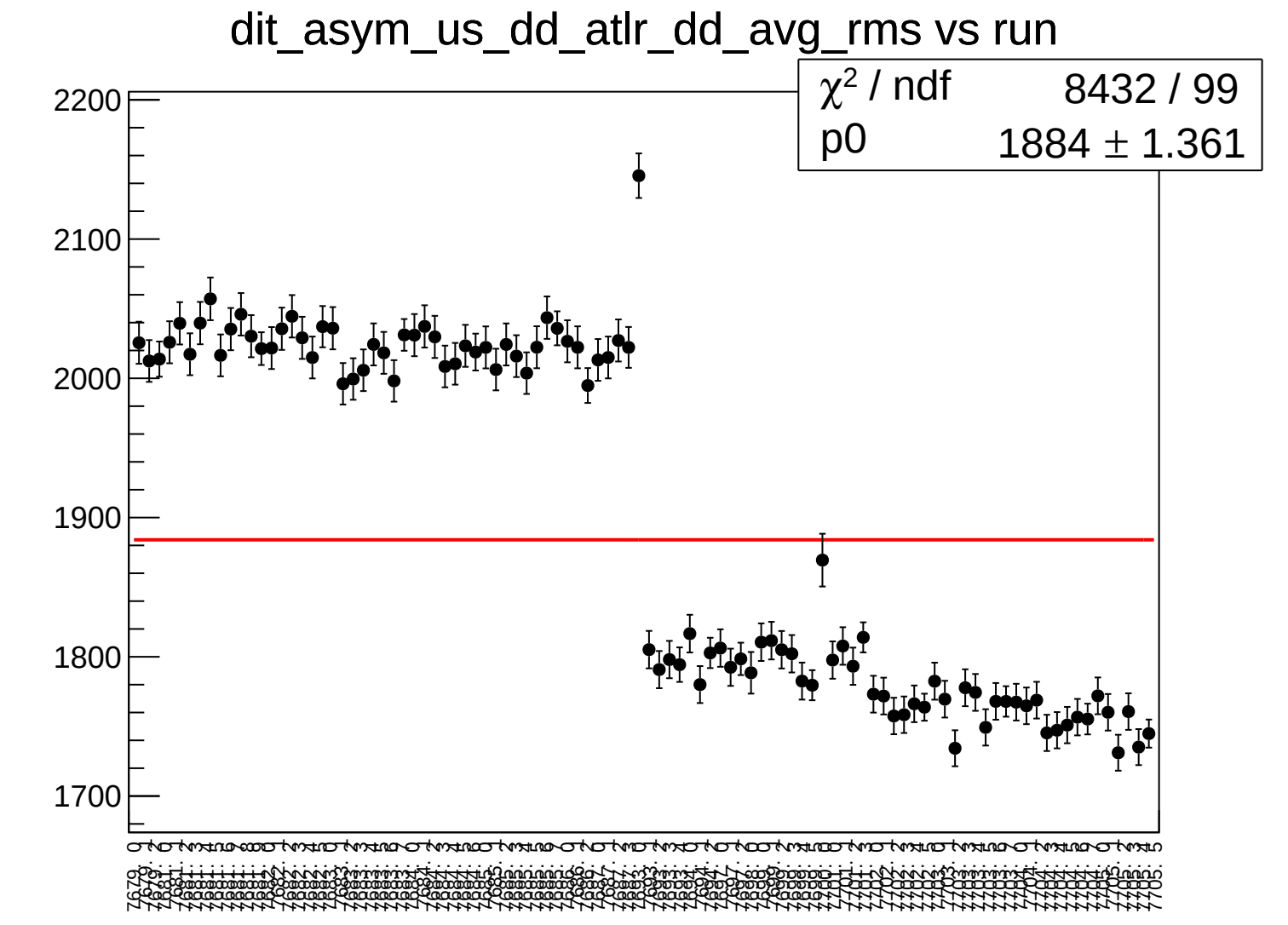

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 88.32 / 99
p0 −963.6 ± 2984
100
50
0
−50
−100
pull
Entries 100
Mean −542.8
Std Dev 0
2
1
0
−1
−2

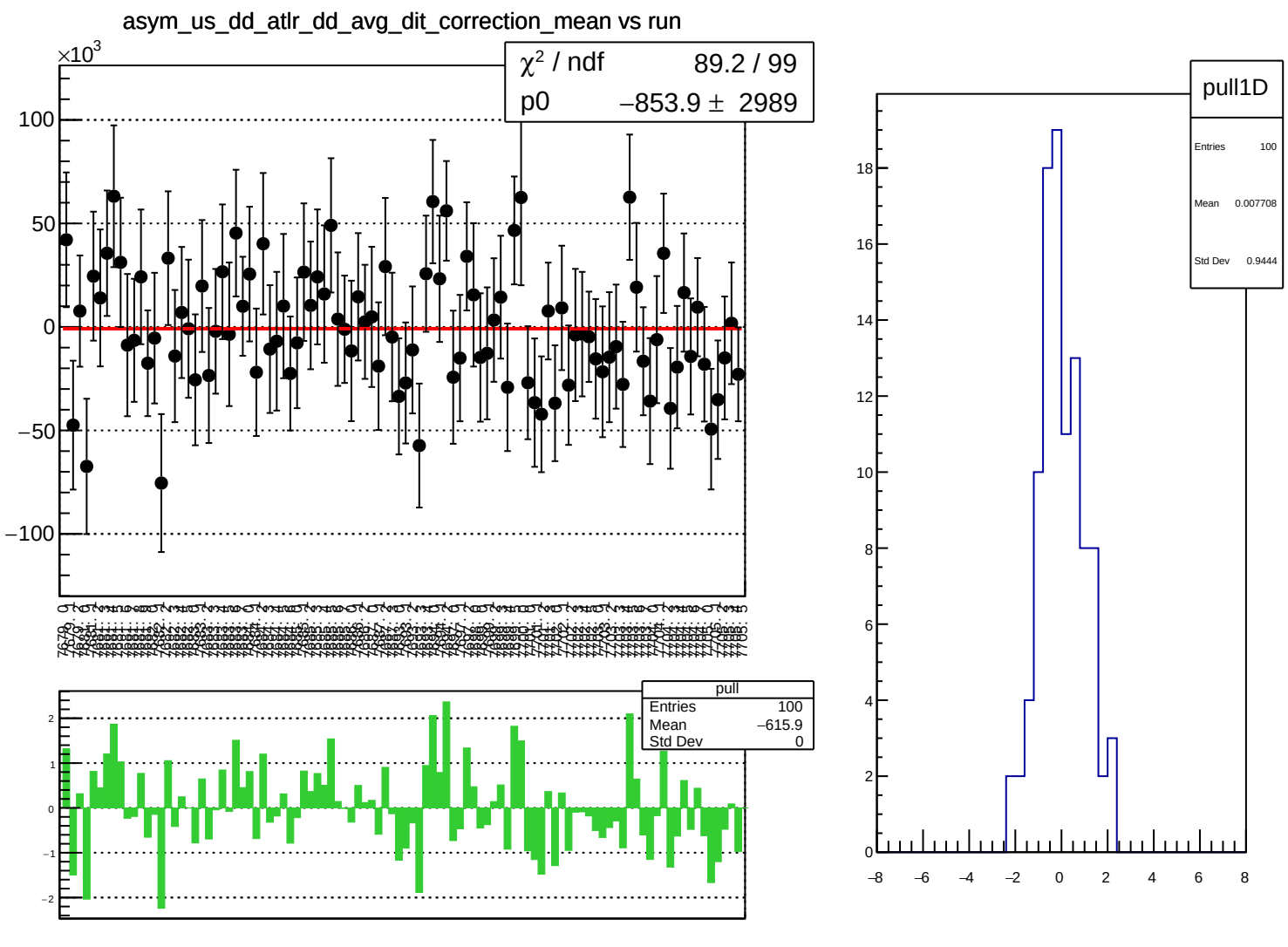

pull1D
Entries 100
Mean 0.008827
Std Dev 0.9397
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

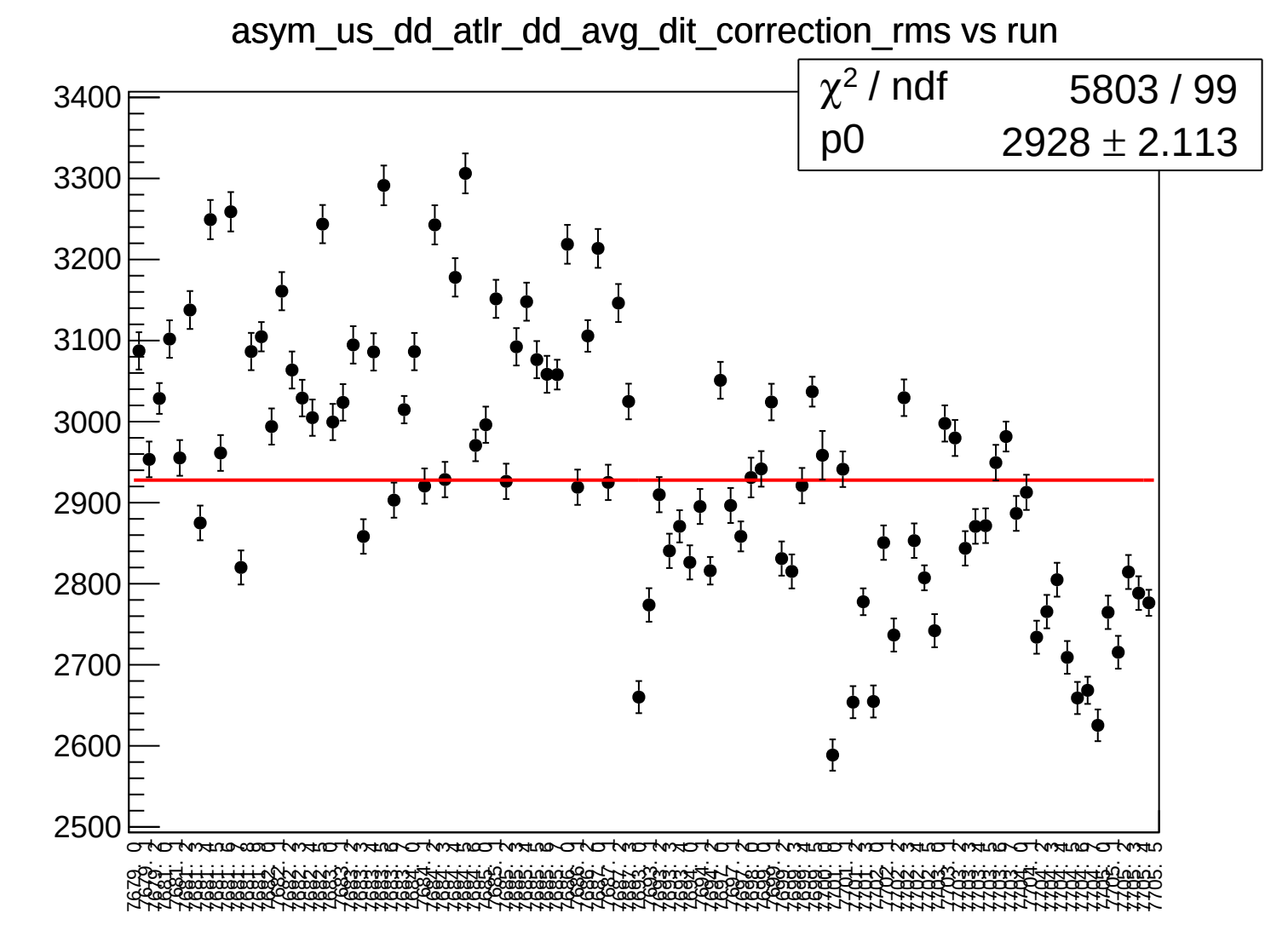

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 7473 / 99
p0 2922 ± 2.11
3400
3200
3000
2800
2600

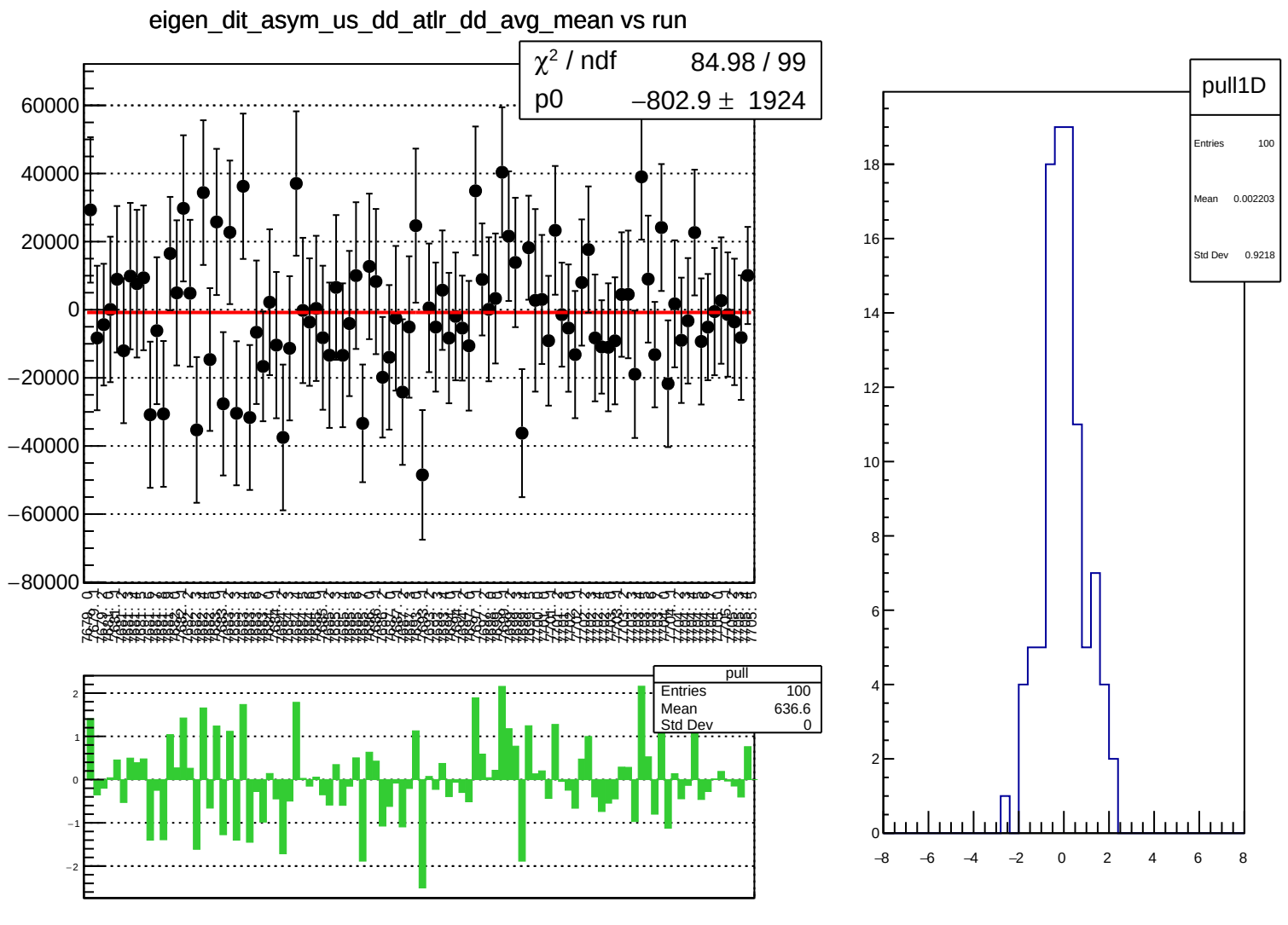

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 84.98 / 99
p0 −802.9 ± 1924
pull
Entries 100
Mean 636.6
Std Dev 0

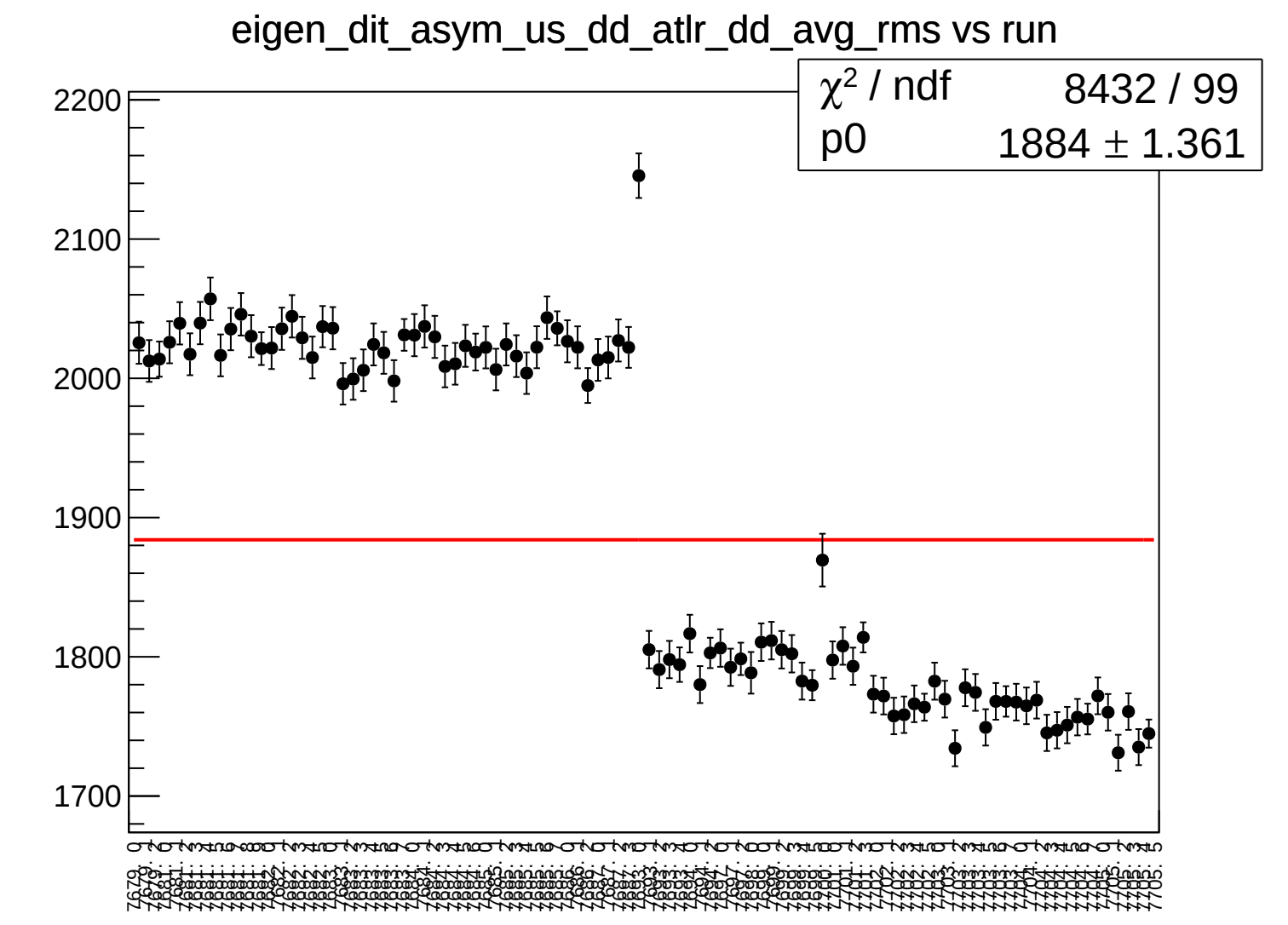

pull1D
Entries 100
Mean 0.002203
Std Dev 0.9218

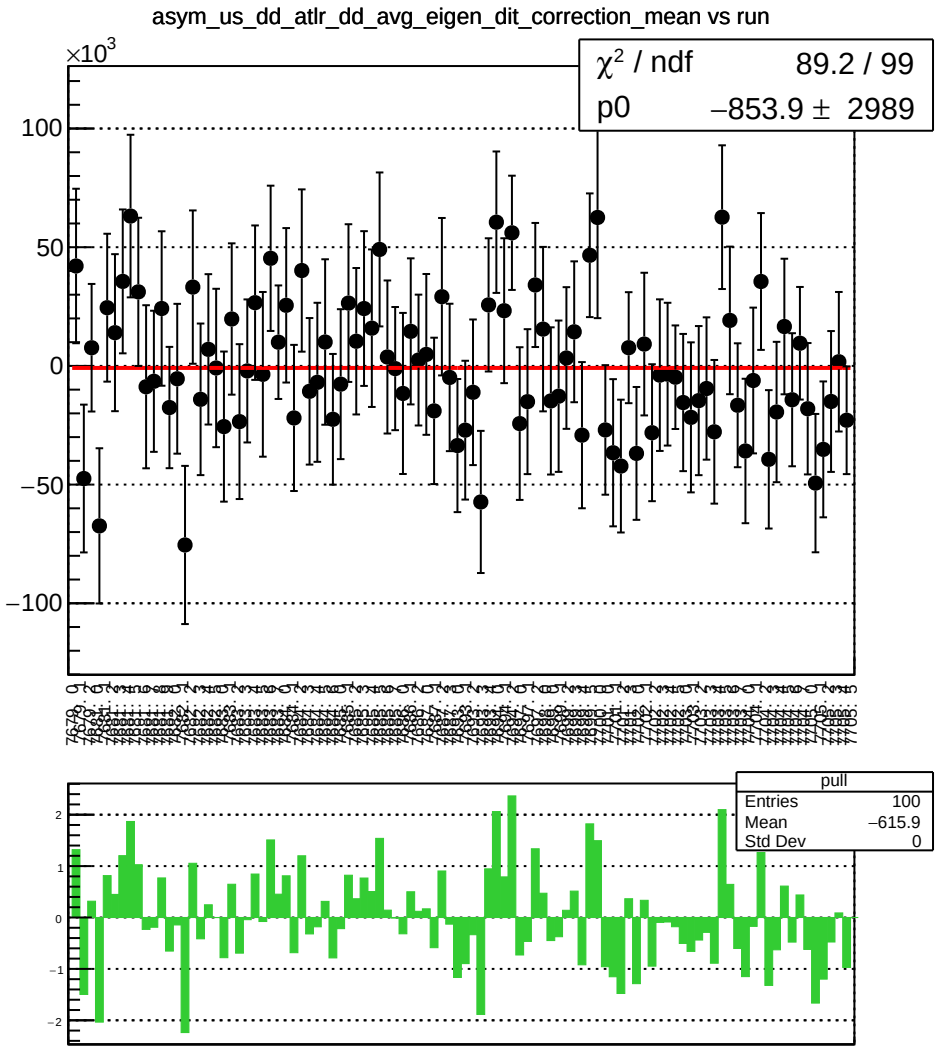

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 8432 / 99
p0 1884 ± 1.361
2200
2100
2000
1900
1800
1700

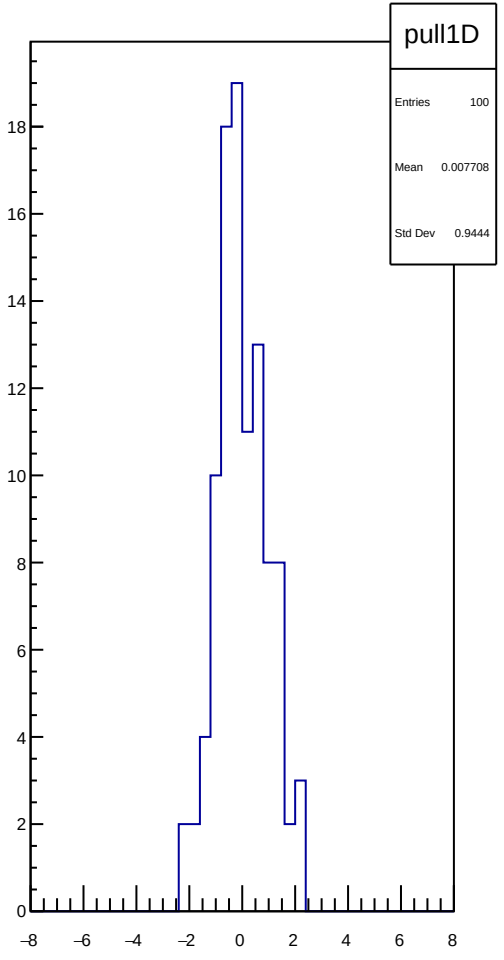

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 89.2 / 99
p0 −853.9 ± 2989
100
50
0
−50
−100
pull
Entries 100
Mean −615.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.007708
Std Dev 0.9444
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

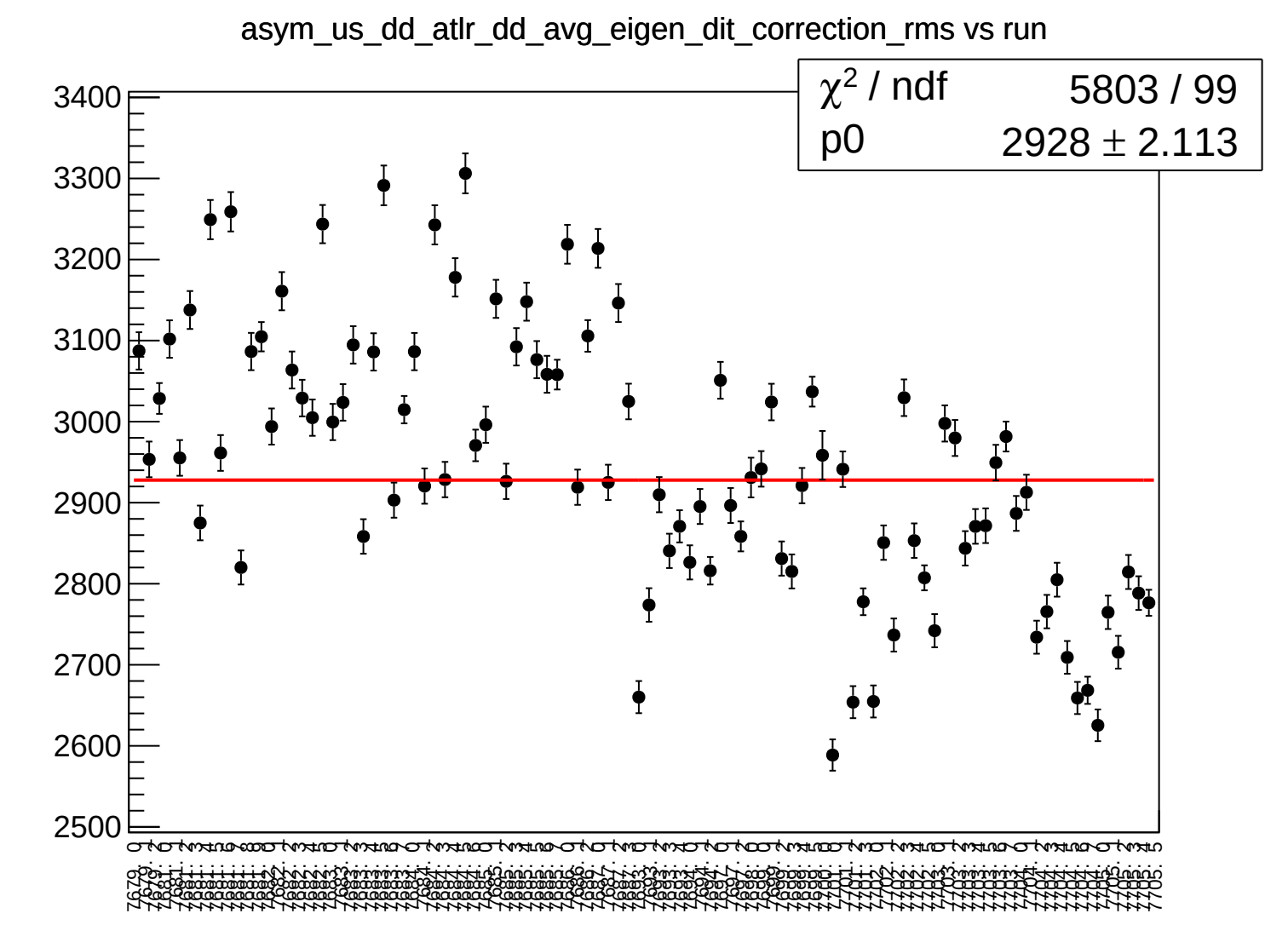

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 5803 / 99
p0 2928 ± 2.113
3400
3300
3200
3100
3000
2900
2800
2700
2600
2500

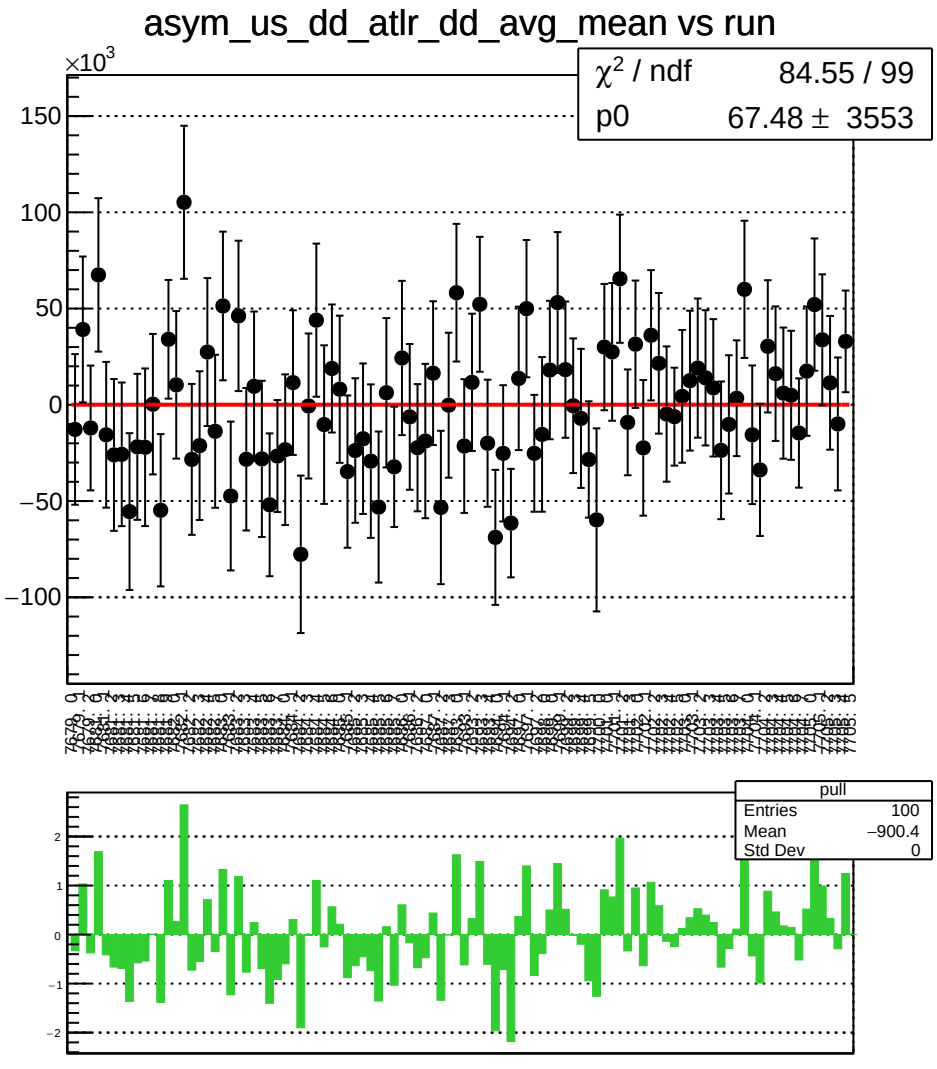

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 84.98 / 99
p0 −802.9 ± 1924
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean 636.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.002203
Std Dev 0.9218
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

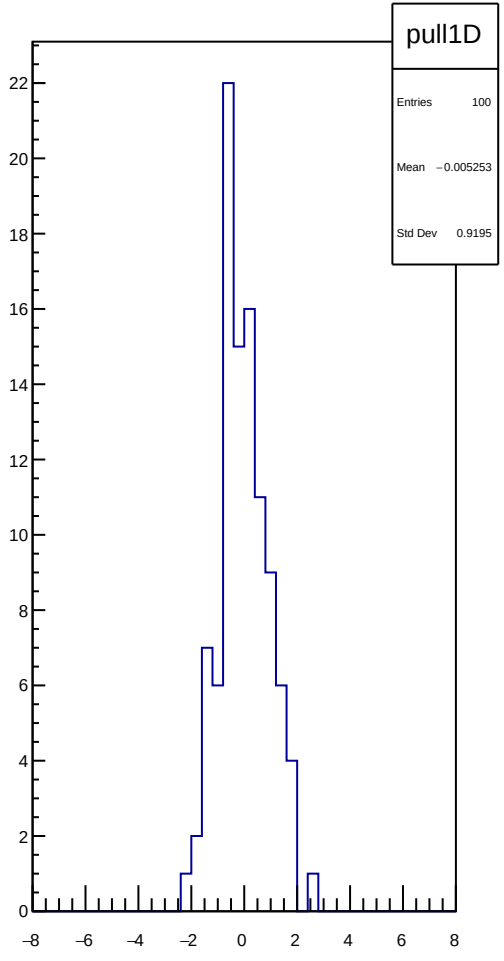

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 8432 / 99
p0 1884 ± 1.361
2200
2100
2000
1900
1800
1700

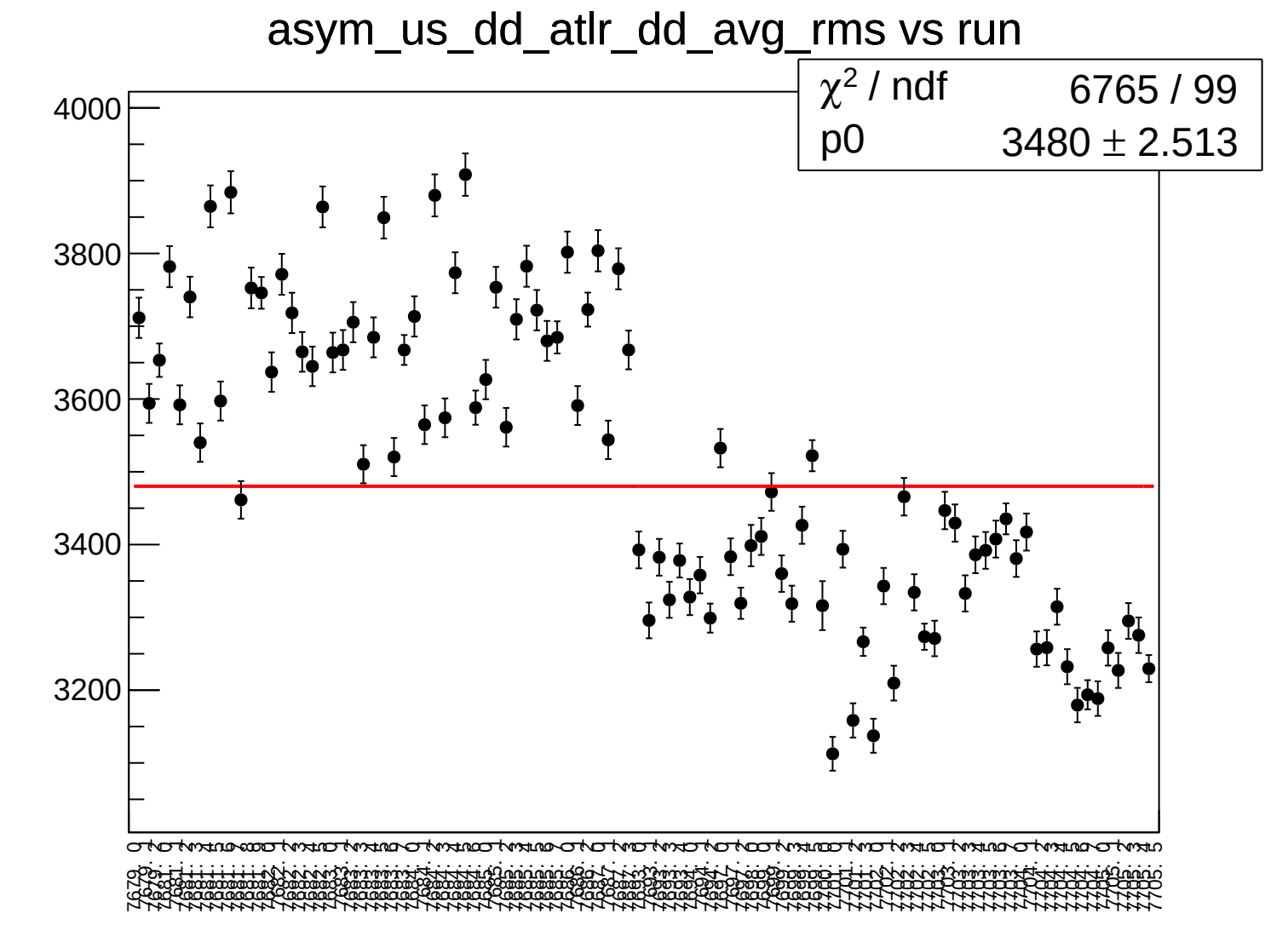

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 89.2 / 99
p0 −853.9 ± 2989
100
50
0
−50
−100
pull
Entries 100
Mean −615.9
Std Dev 0
2
1
0
−1
−2

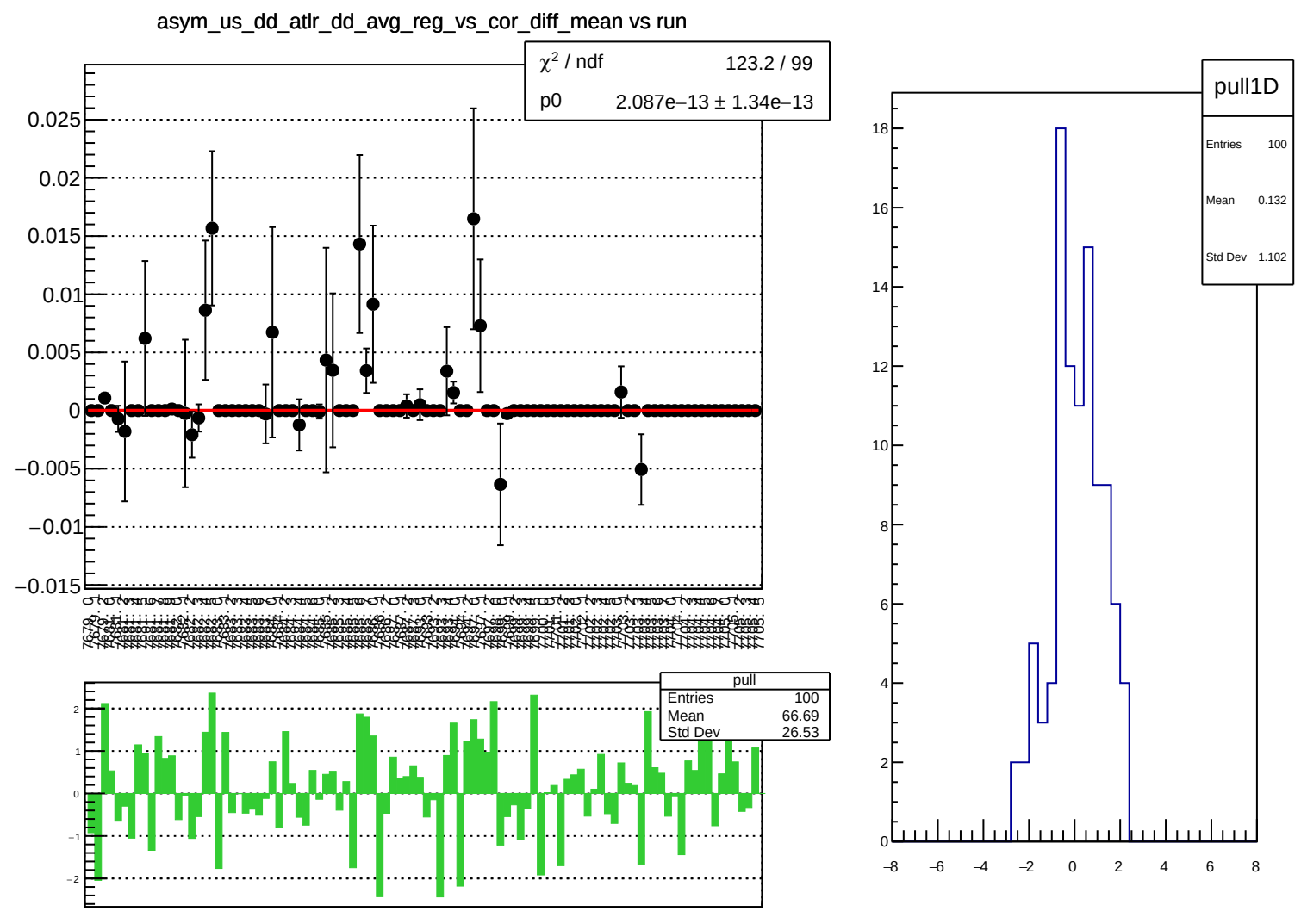

pull1D
Entries 100
Mean 0.007708
Std Dev 0.9444
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

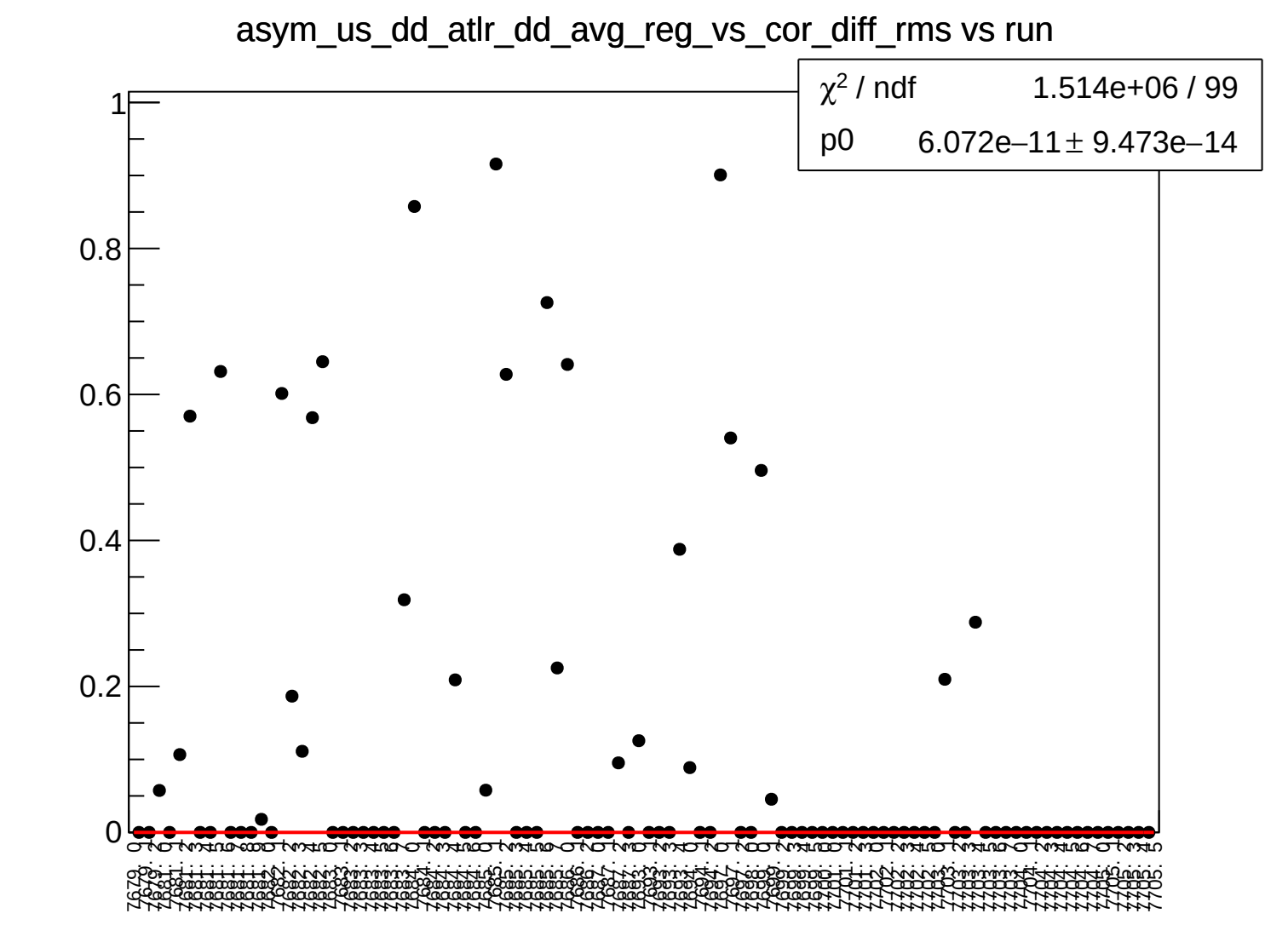

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5803 / 99
p0 2928 ± 2.113
3400
3300
3200
3100
3000
2900
2800
2700
2600
2500

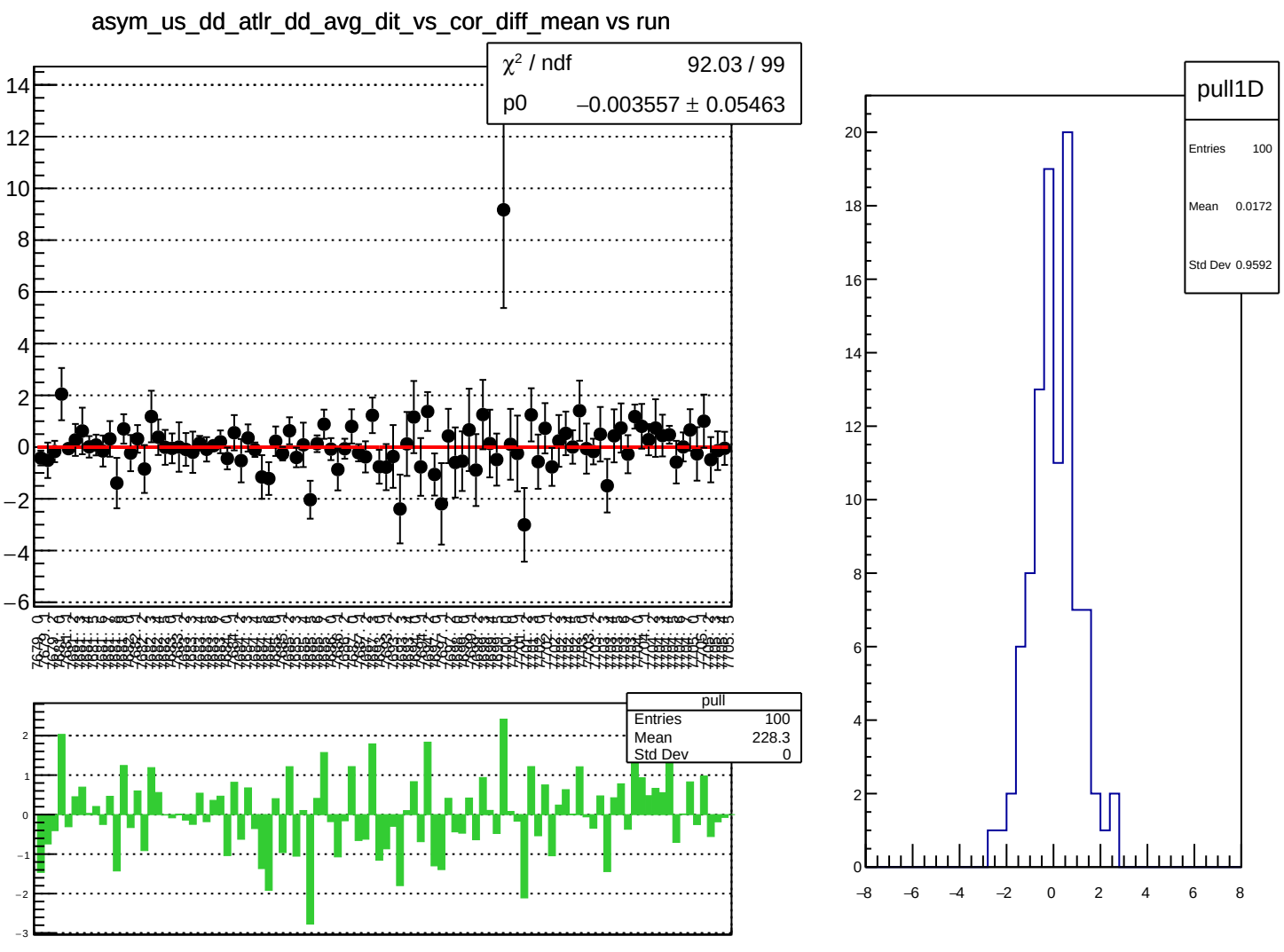

asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ² / ndf 84.55 / 99
p0 67.48 ± 3553
150
100
50
0
−50
−100
pull
Entries 100
Mean −900.4
Std Dev 0
2
1
0
−1
−2

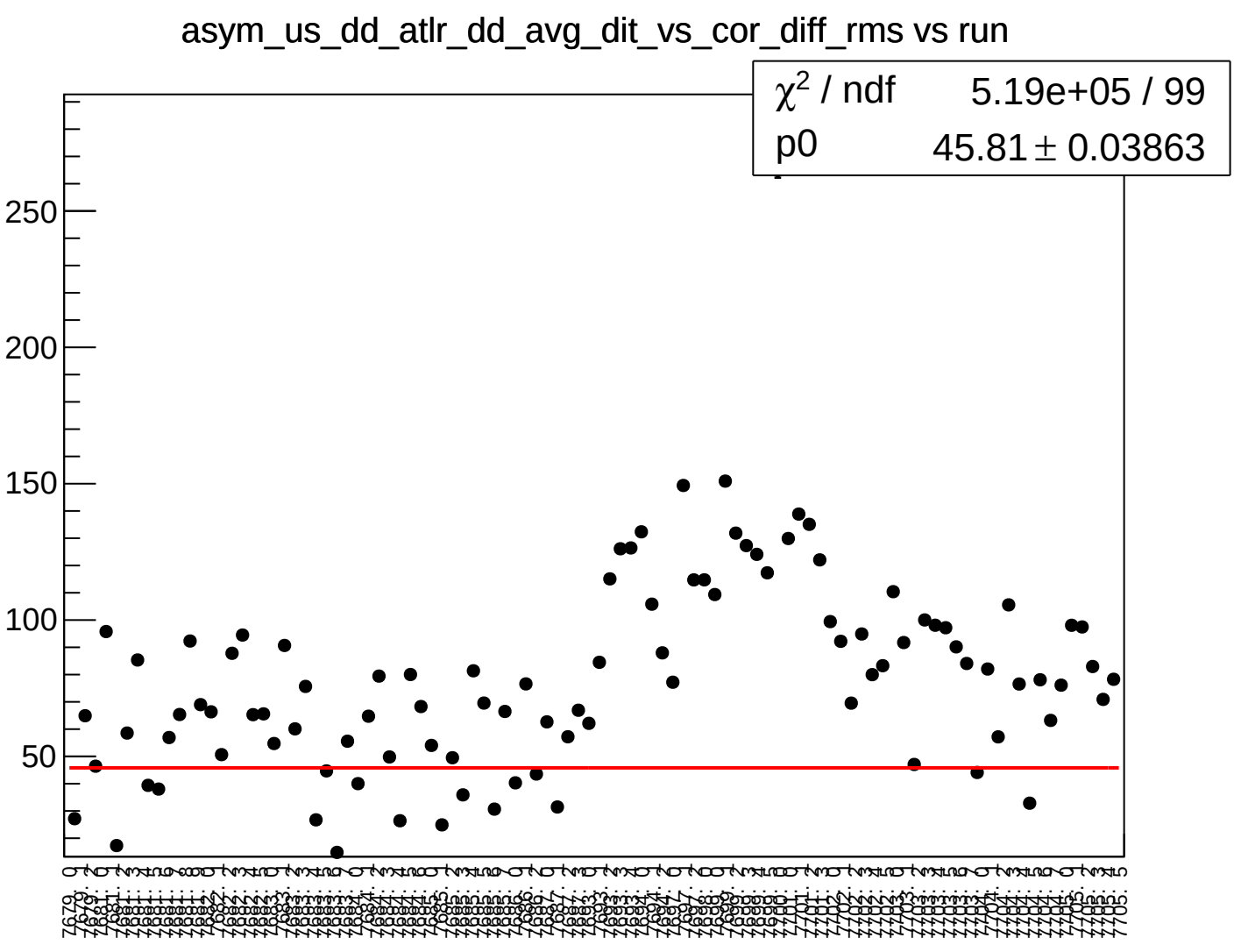

pull1D
Entries 100
Mean −0.005253
Std Dev 0.9195
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

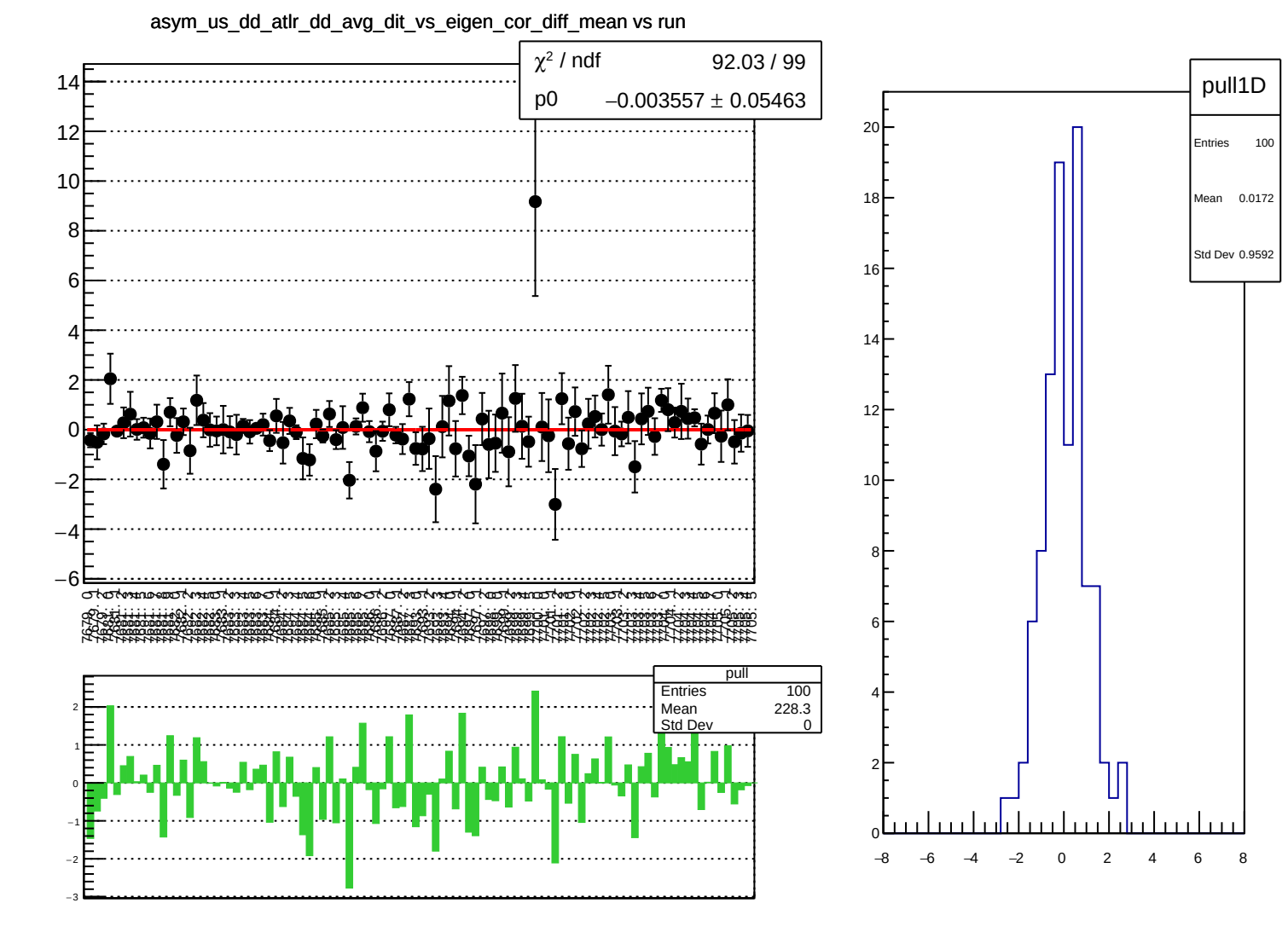

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 6765 / 99
p0 3480 ± 2.513
4000
3800
3600
3400
3200

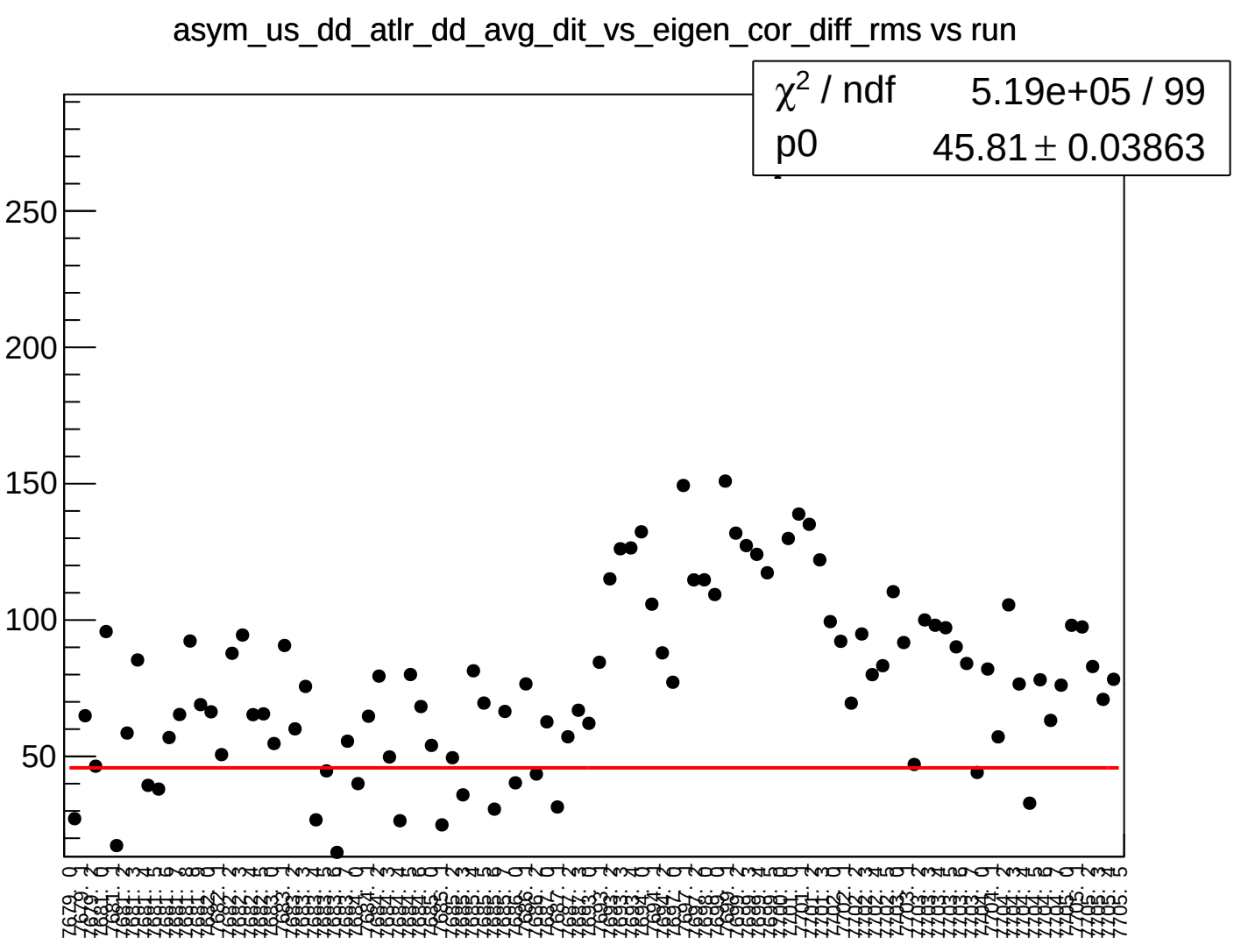

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 123.2 / 99
p0 2.087e−13 ± 1.34e−13
pull
Entries 100
Mean 66.69
Std Dev 26.53
pull1D
Entries 100
Mean 0.132
Std Dev 1.102

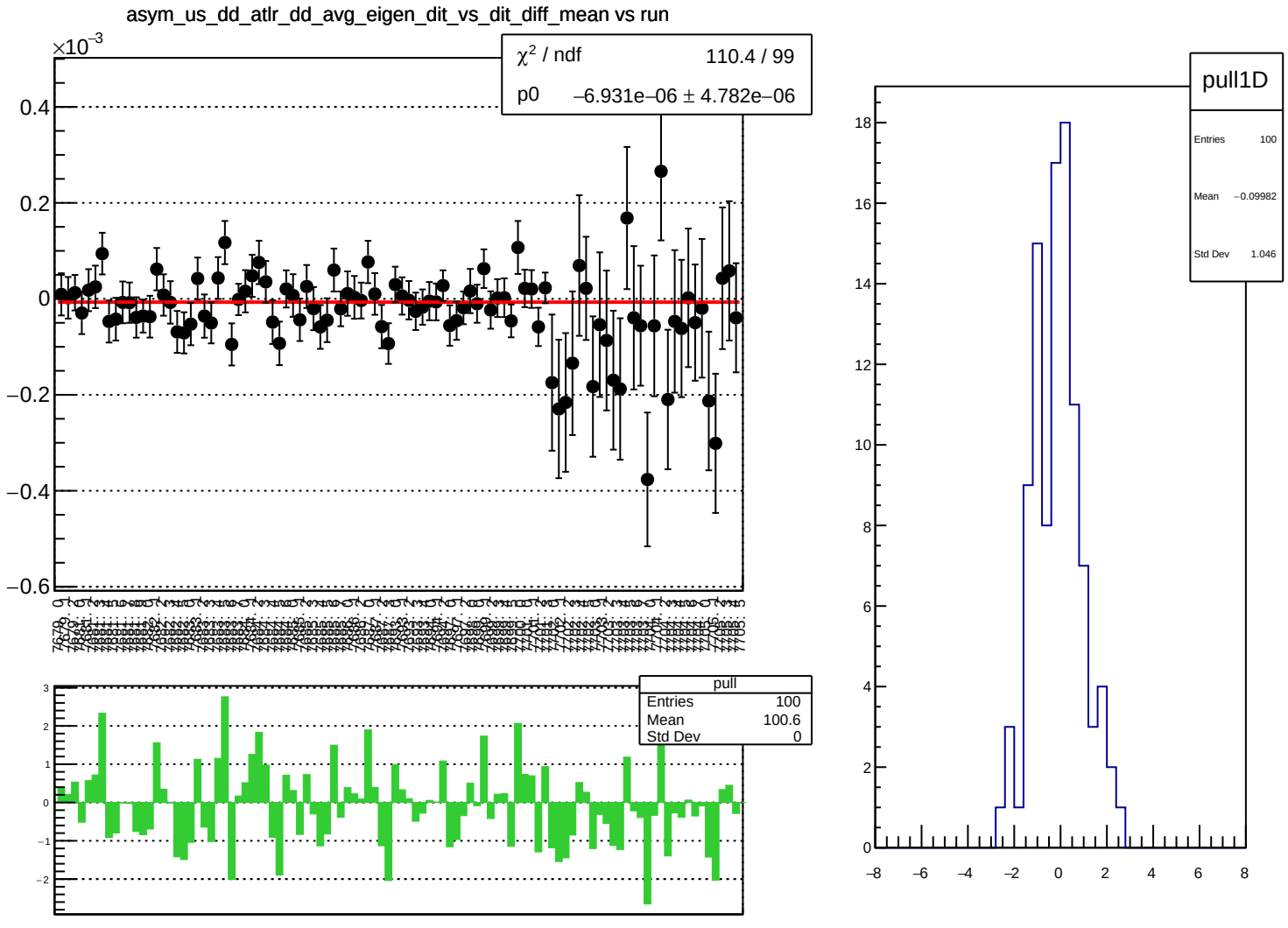

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.514e+06 / 99
p0 6.072e−11 ± 9.473e−14
1
0.8
0.6
0.4
0.2
0

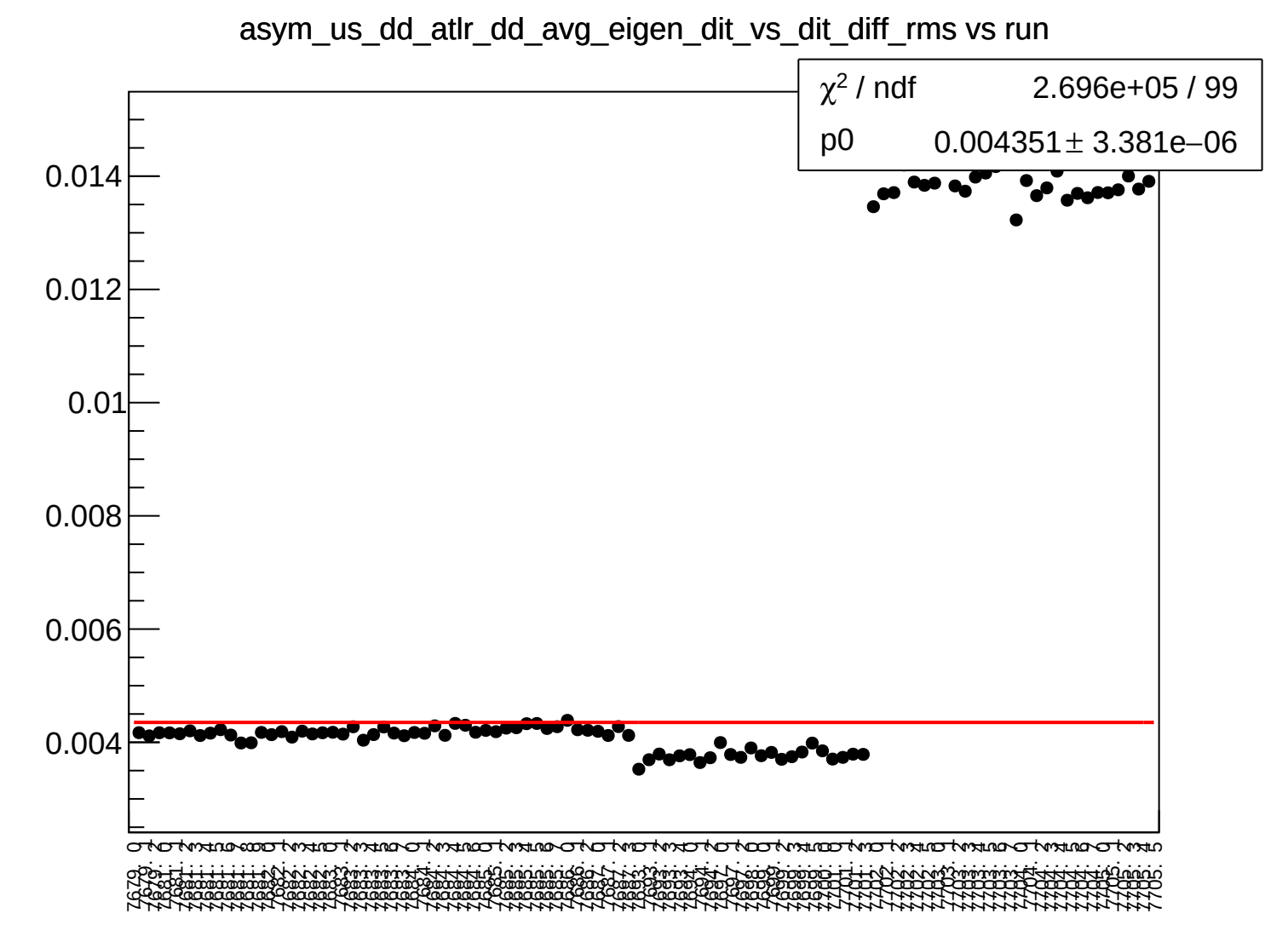

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.03 / 99
p0 −0.003557 ± 0.05463
pull
Entries 100
Mean 228.3
Std Dev 0
pull1D
Entries 100
Mean 0.0172
Std Dev 0.9592

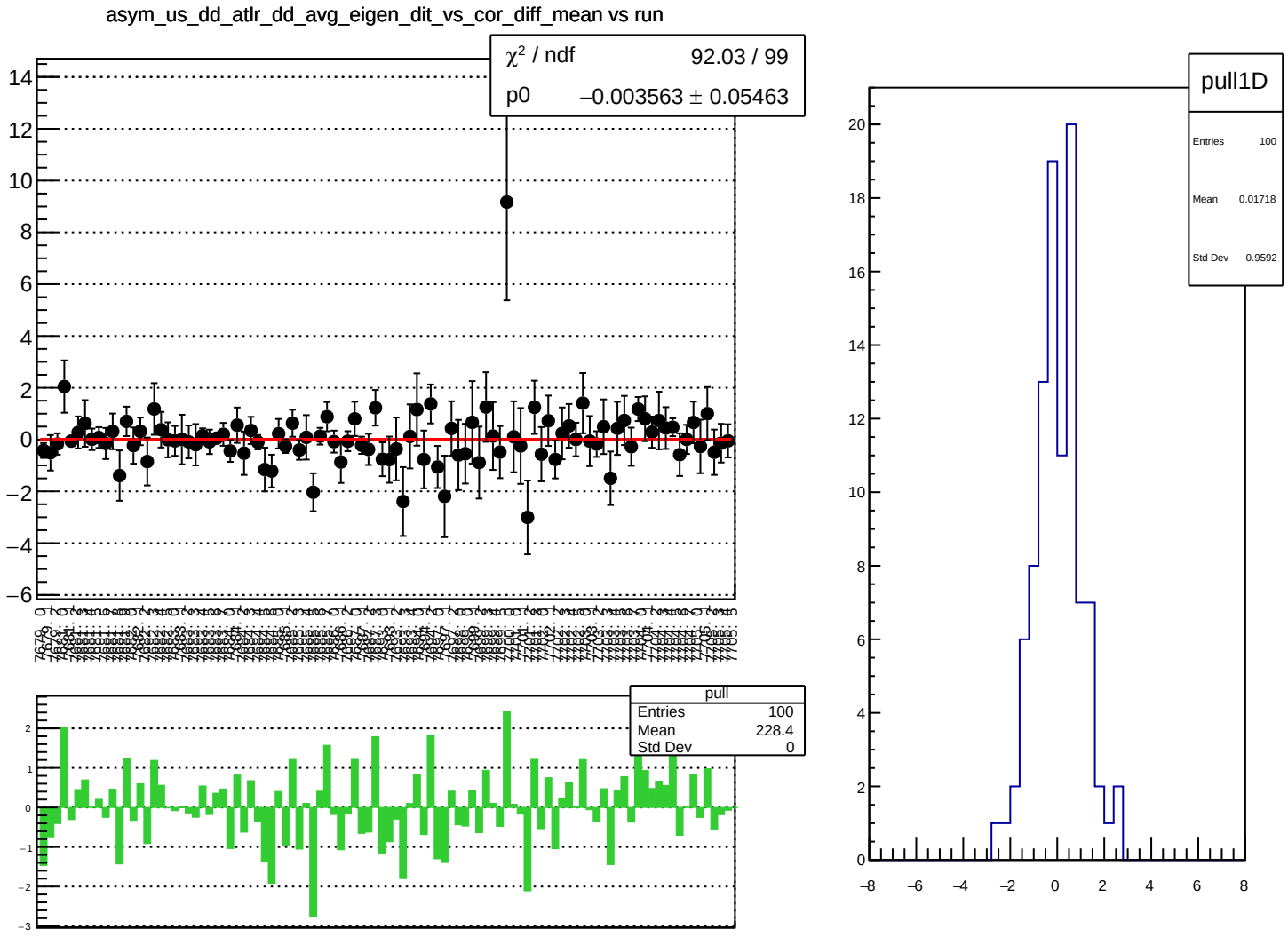

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.19e+05 / 99
p0 45.81 ± 0.03863
250
200
150
100
50

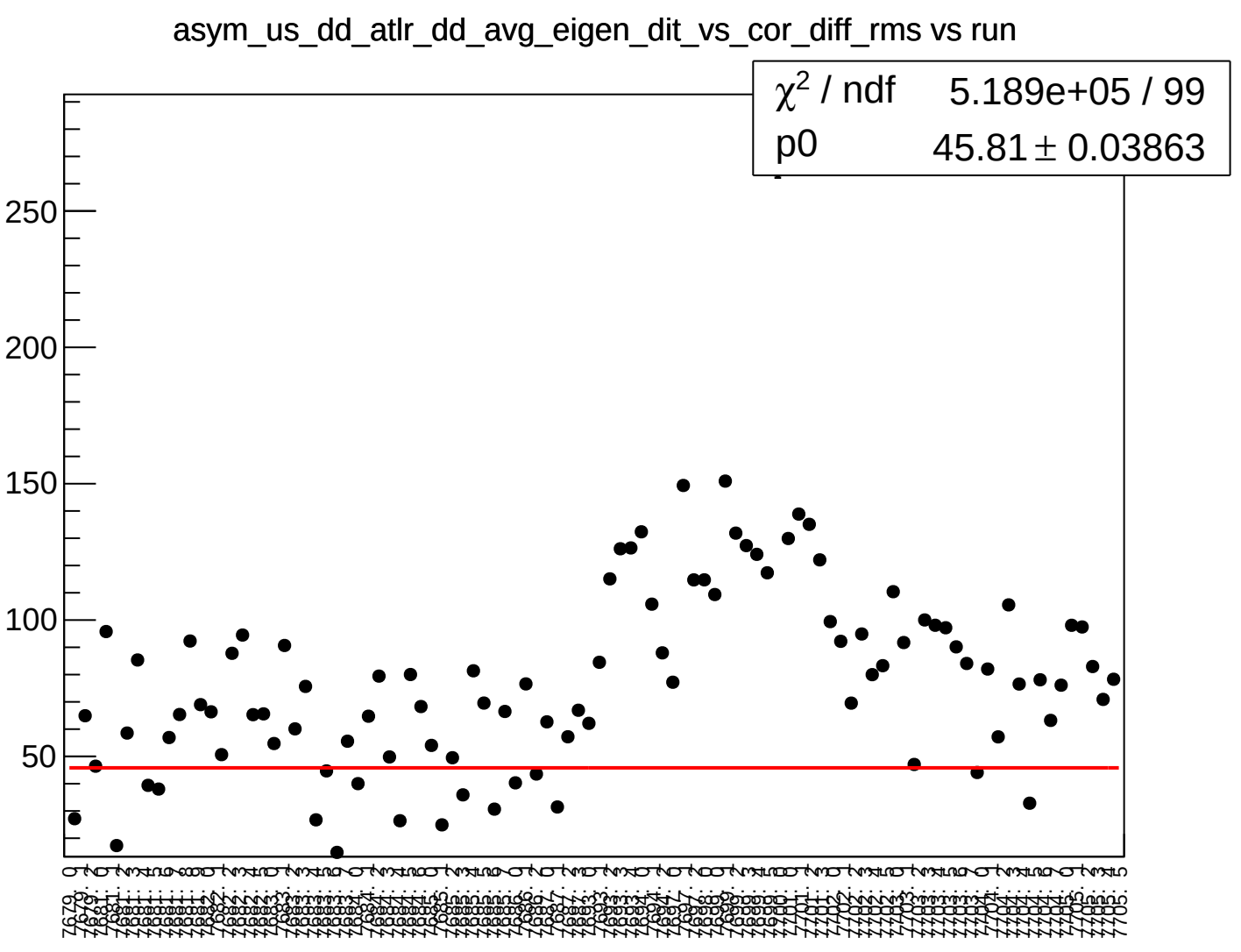

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.03 / 99
p0 −0.003557 ± 0.05463
pull
Entries 100
Mean 228.3
Std Dev 0
pull1D
Entries 100
Mean 0.0172
Std Dev 0.9592

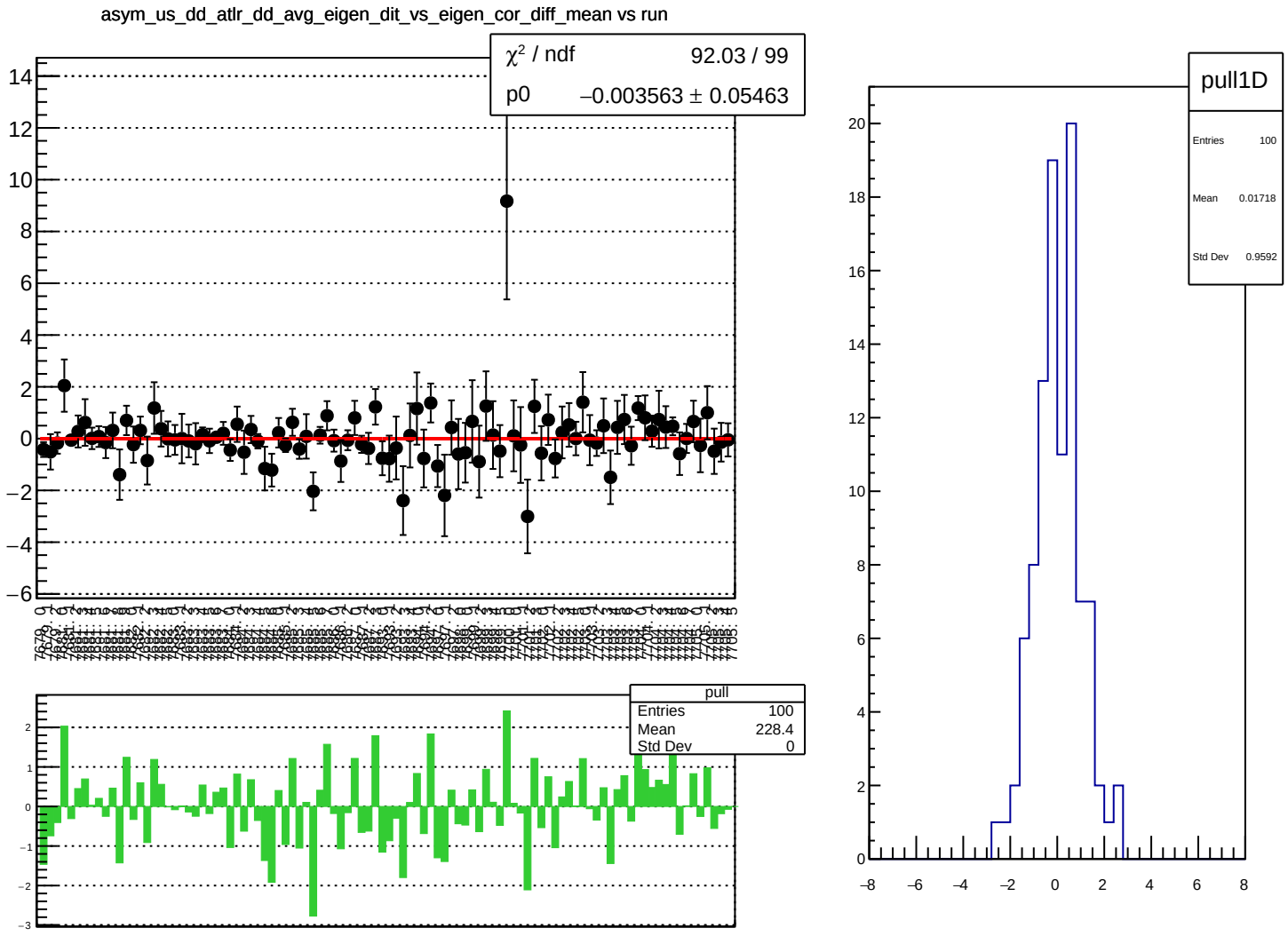

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.19e+05 / 99
p0 45.81 ± 0.03863
250
200
150
100
50

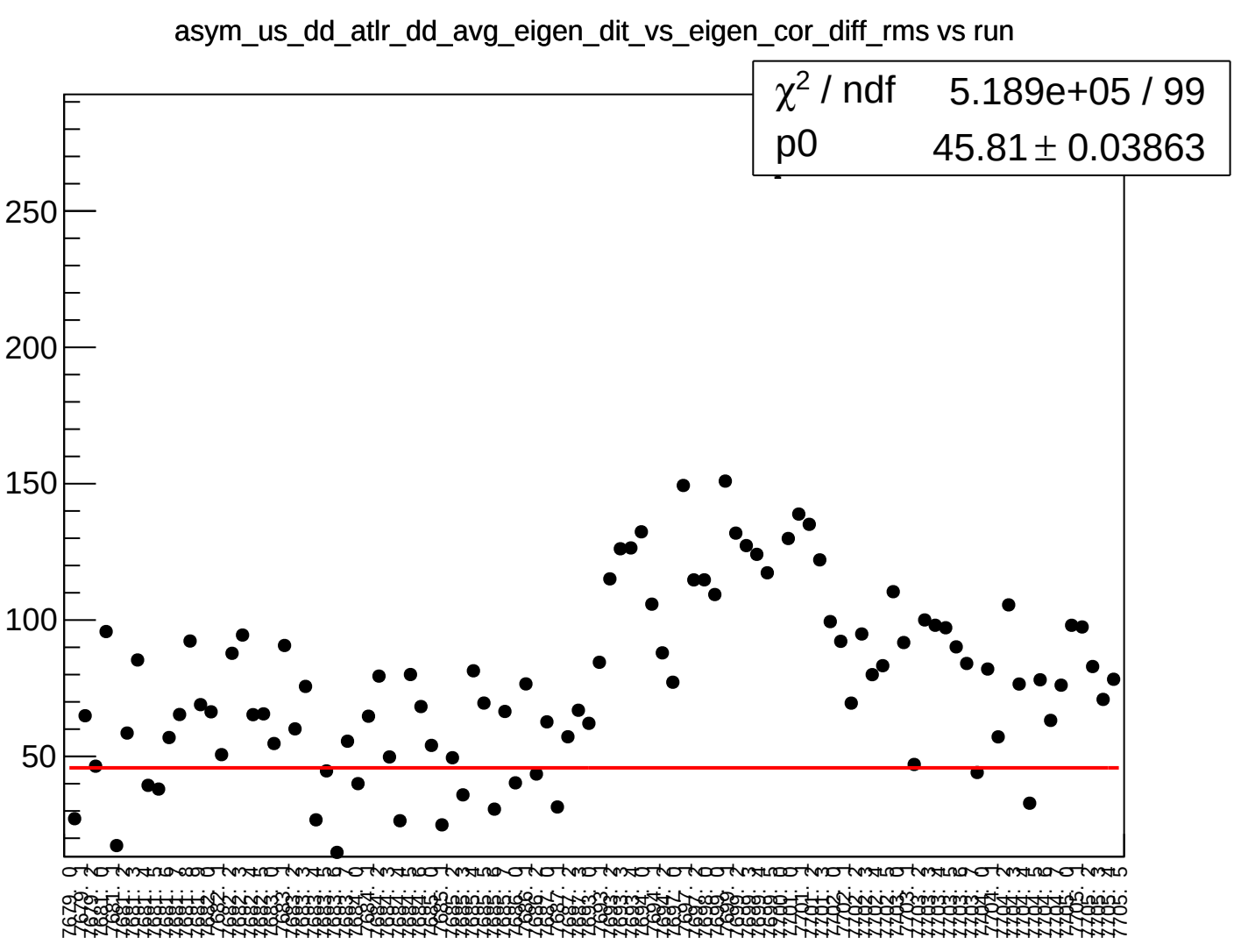

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 110.4 / 99
p0 −6.931e−06 ± 4.782e−06
pull
Entries 100
Mean 100.6
Std Dev 0
pull1D
Entries 100
Mean −0.09982
Std Dev 1.046

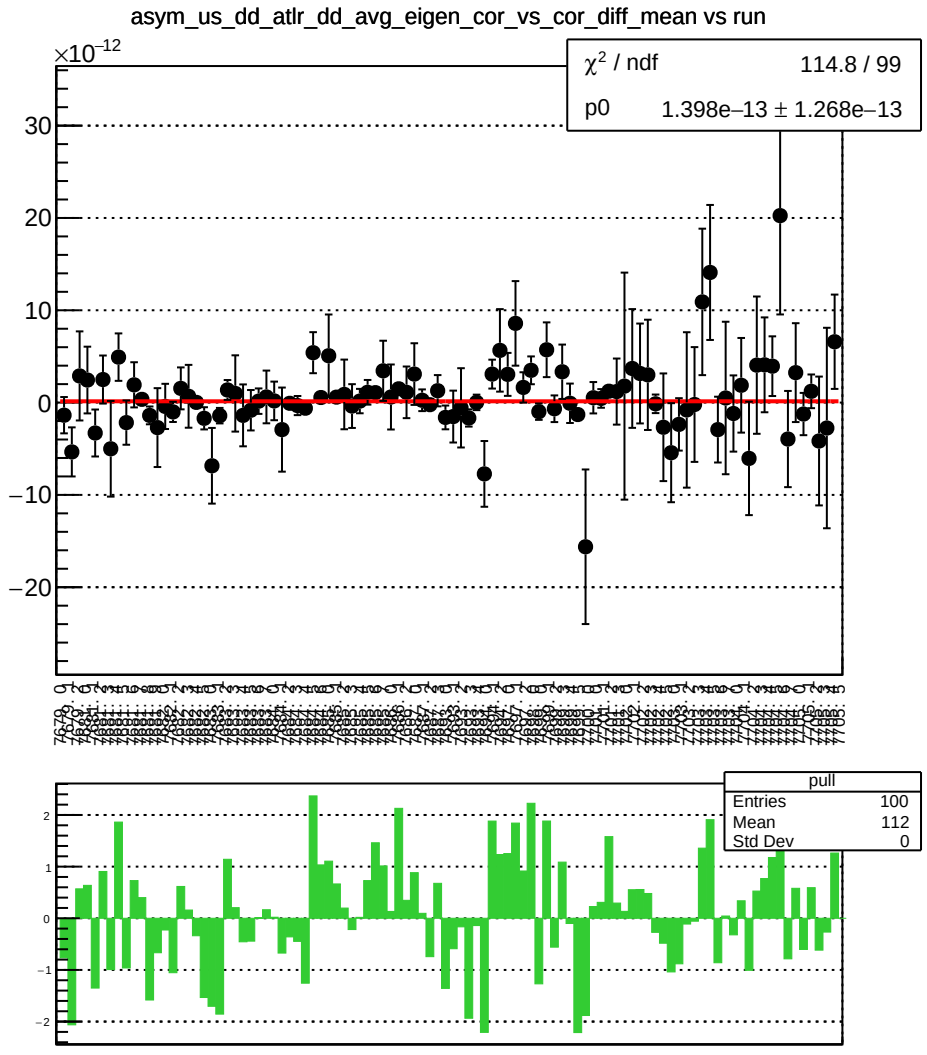

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.696e+05 / 99
p0 0.004351 ± 3.381e−06
0.014
0.012
0.01
0.008
0.006
0.004

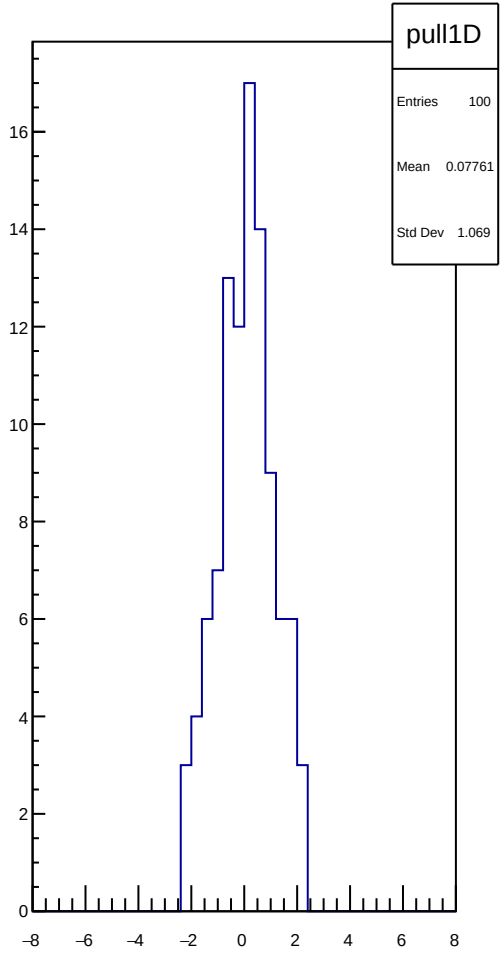

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.03 / 99
p0 −0.003563 ± 0.05463
pull
Entries 100
Mean 228.4
Std Dev 0
pull1D
Entries 100
Mean 0.01718
Std Dev 0.9592

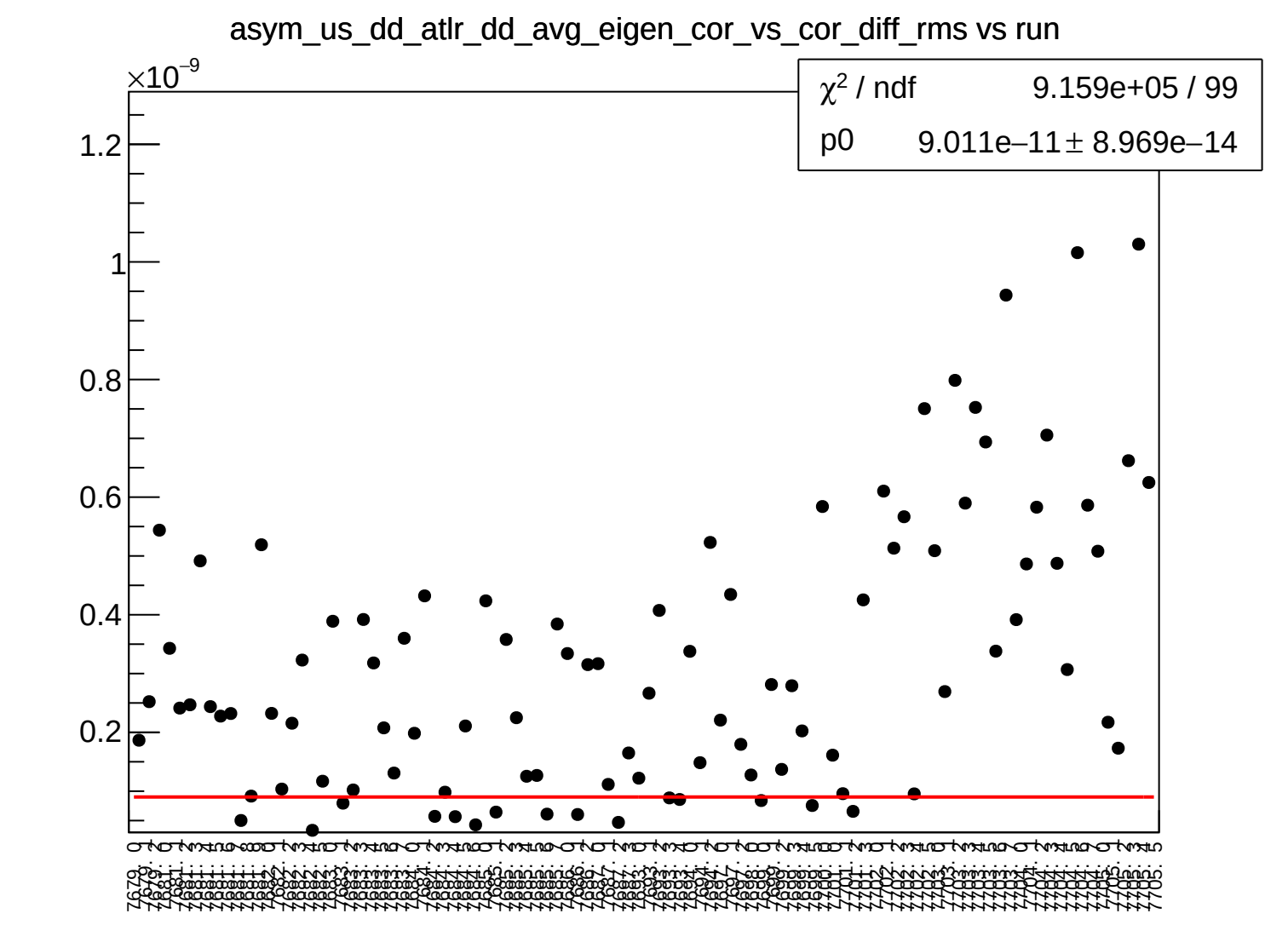

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.189e+05 / 99
p0 45.81 ± 0.03863
250
200
150
100
50

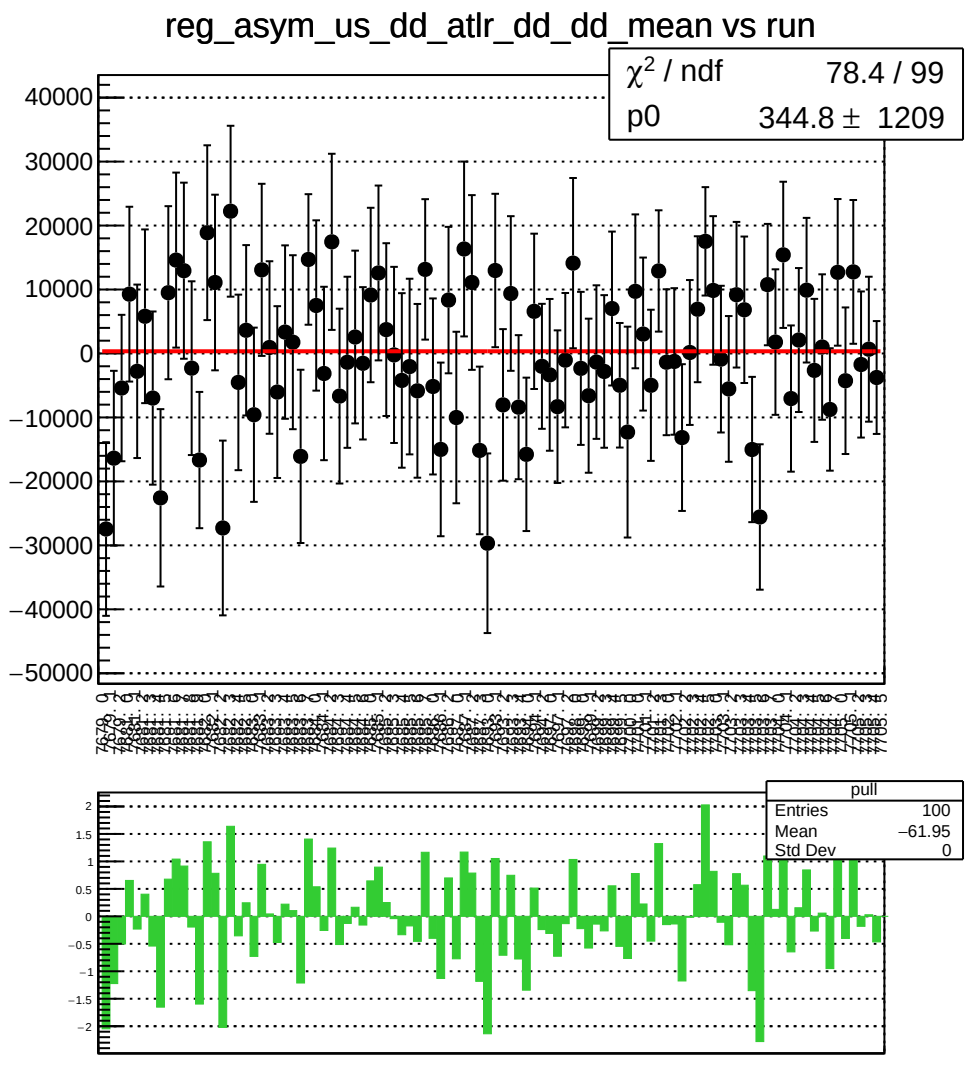

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.03 / 99
p0 −0.003563 ± 0.05463
pull
Entries 100
Mean 228.4
Std Dev 0
pull1D
Entries 100
Mean 0.01718
Std Dev 0.9592

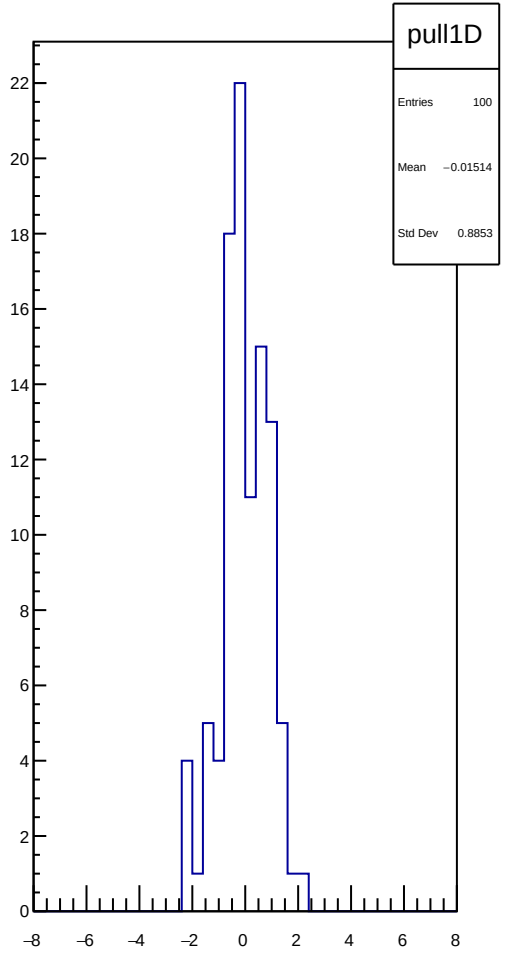

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.189e+05 / 99
p0 45.81 ± 0.03863
250
200
150
100
50

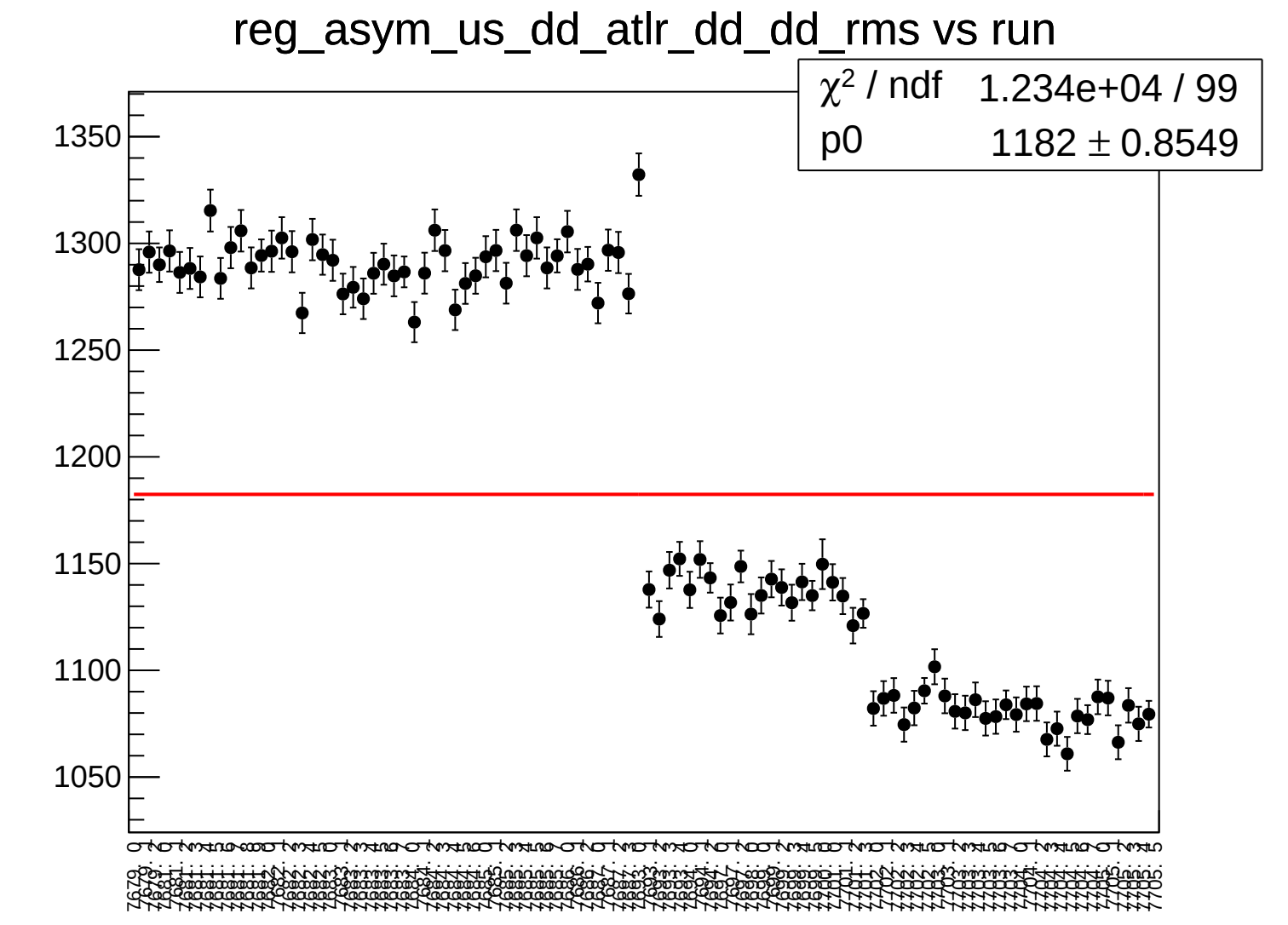

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 114.8 / 99
p0 1.398e−13 ± 1.268e−13
30
20
10
0
−10
−20
pull
Entries 100
Mean 112
Std Dev 0
2
1
0
−1
−2

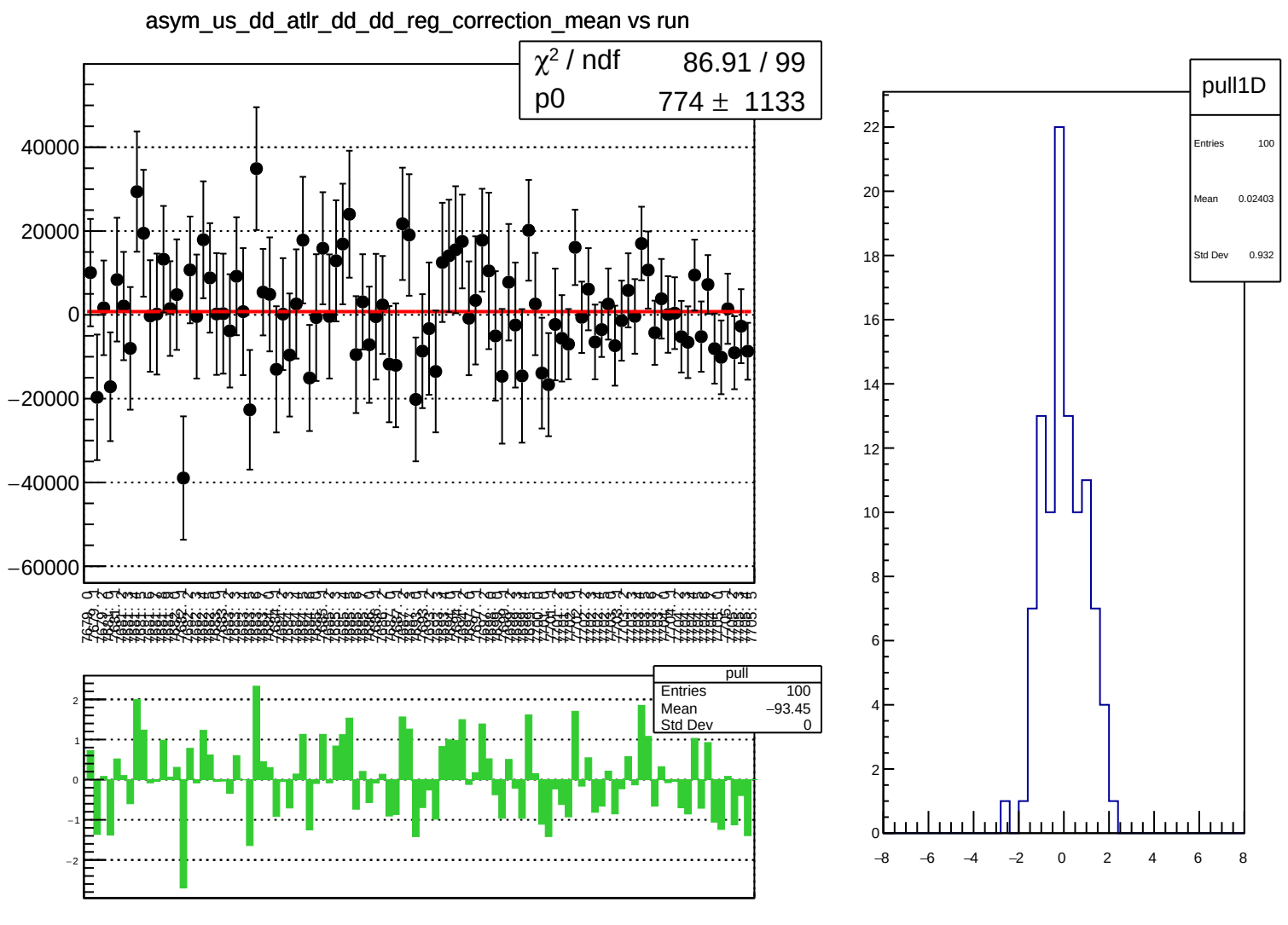

pull1D
Entries 100
Mean 0.07761
Std Dev 1.069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

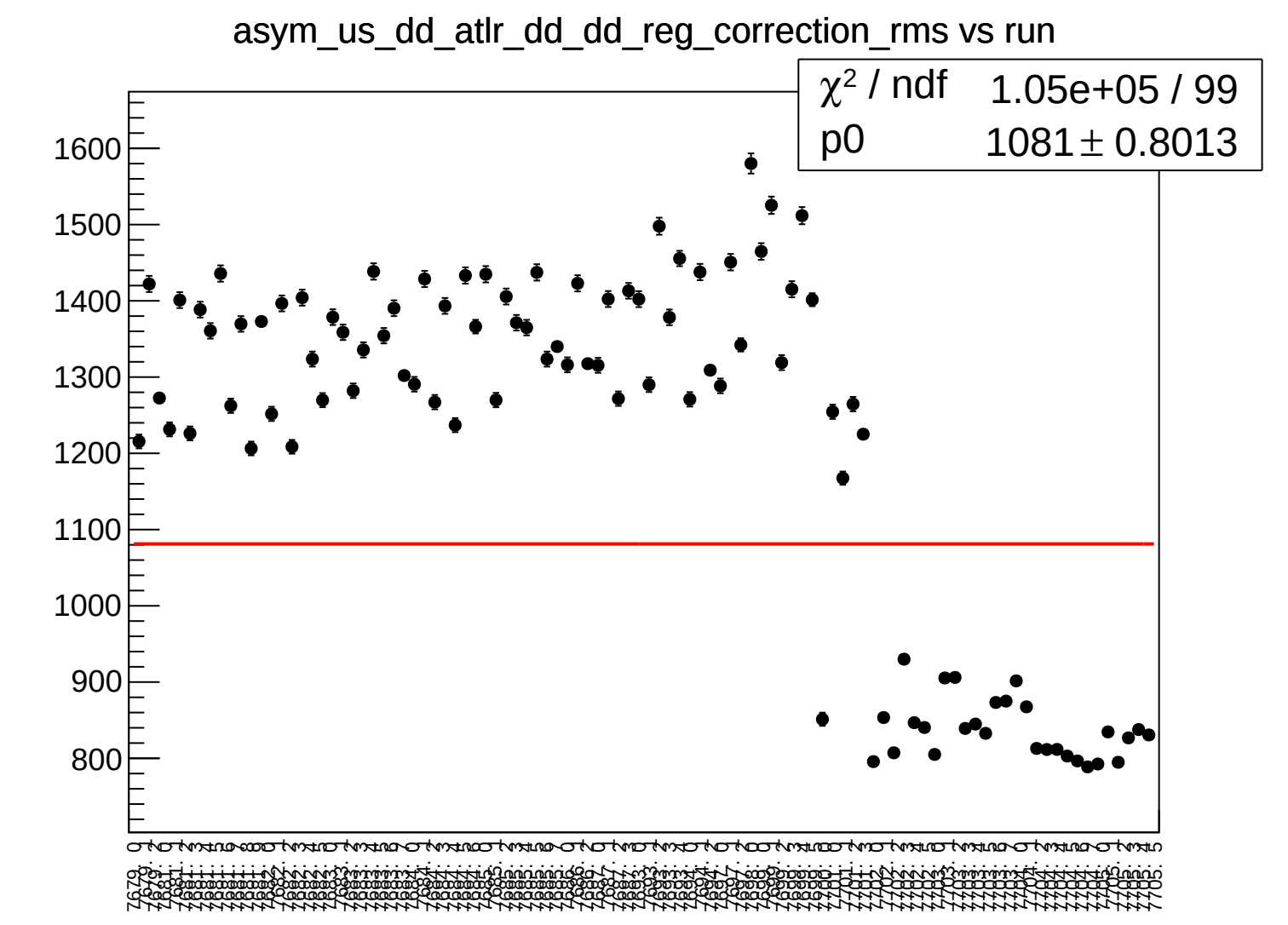

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.159e+05 / 99
p0 9.011e−11 ± 8.969e−14
1.2
1
0.8
0.6
0.4
0.2

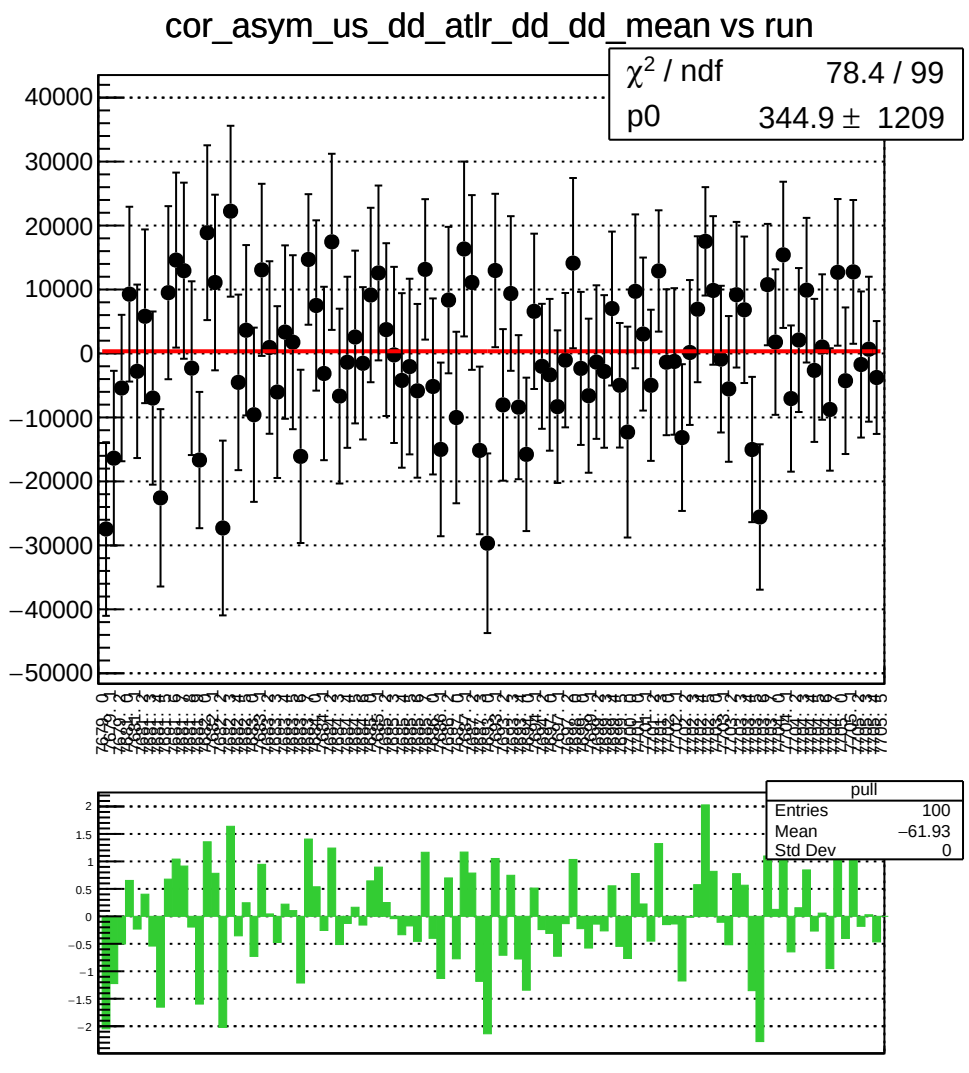

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 78.4 / 99
p0 344.8 ± 1209
pull
Entries 100
Mean −61.95
Std Dev 0

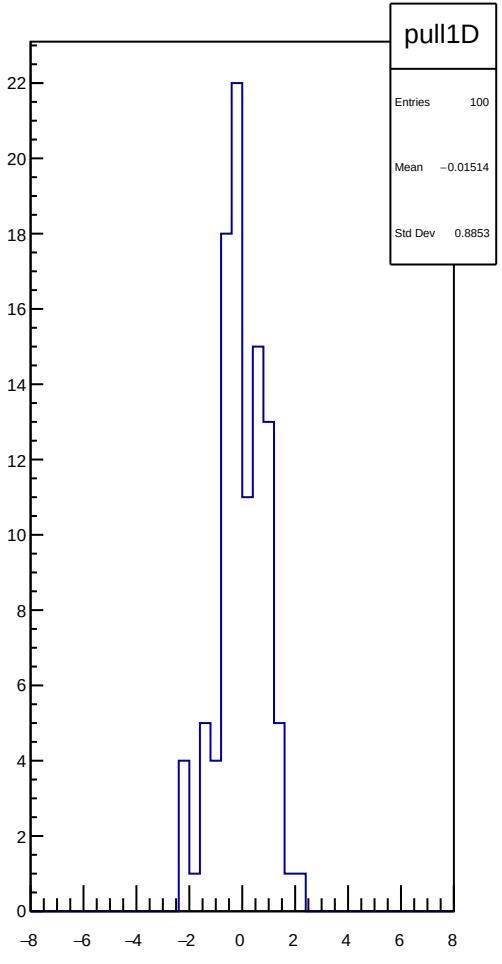

pull1D
Entries 100
Mean −0.01514
Std Dev 0.8853

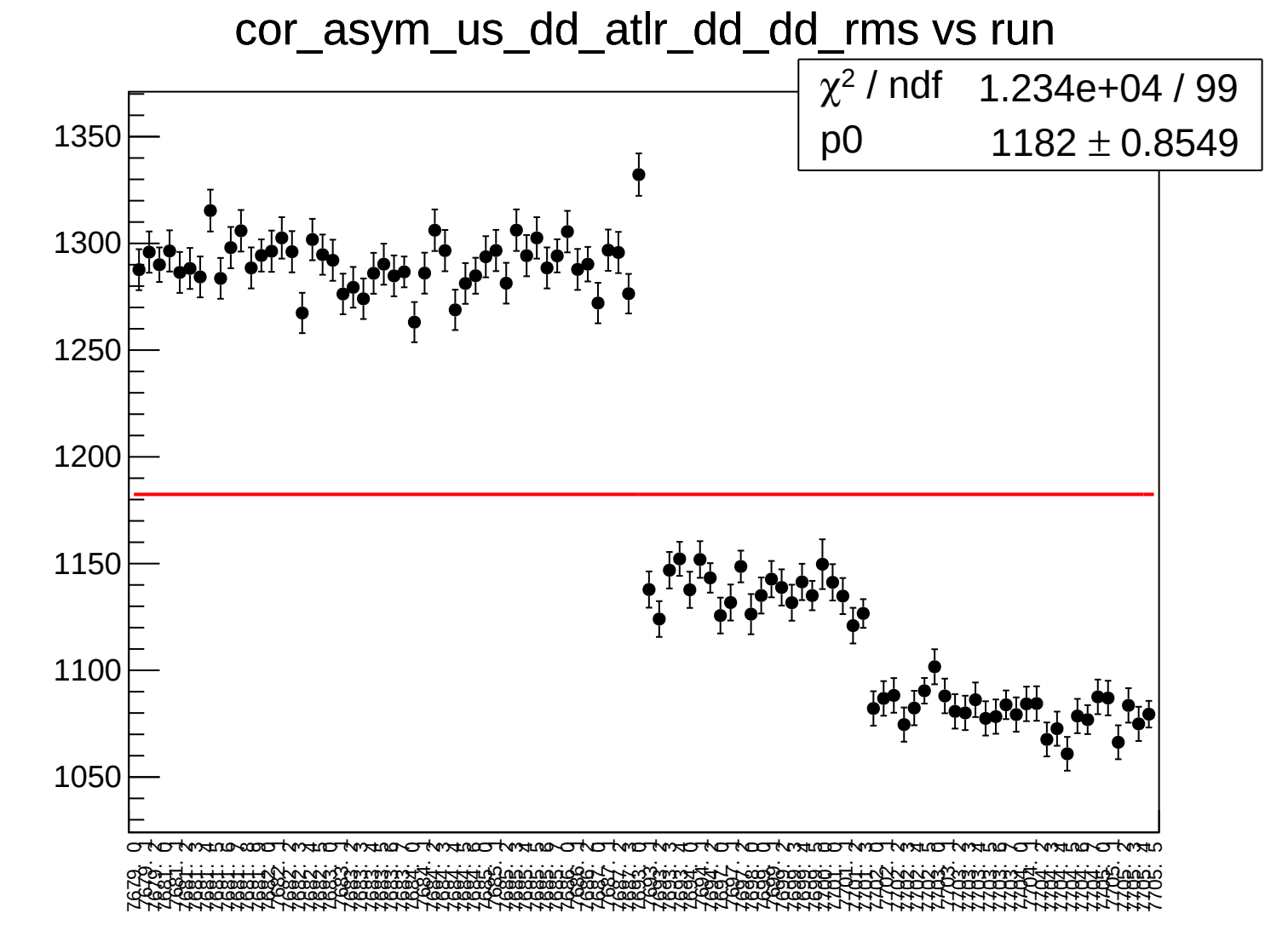

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1.234e+04 / 99
p0 1182 ± 0.8549
1350
1300
1250
1200
1150
1100
1050

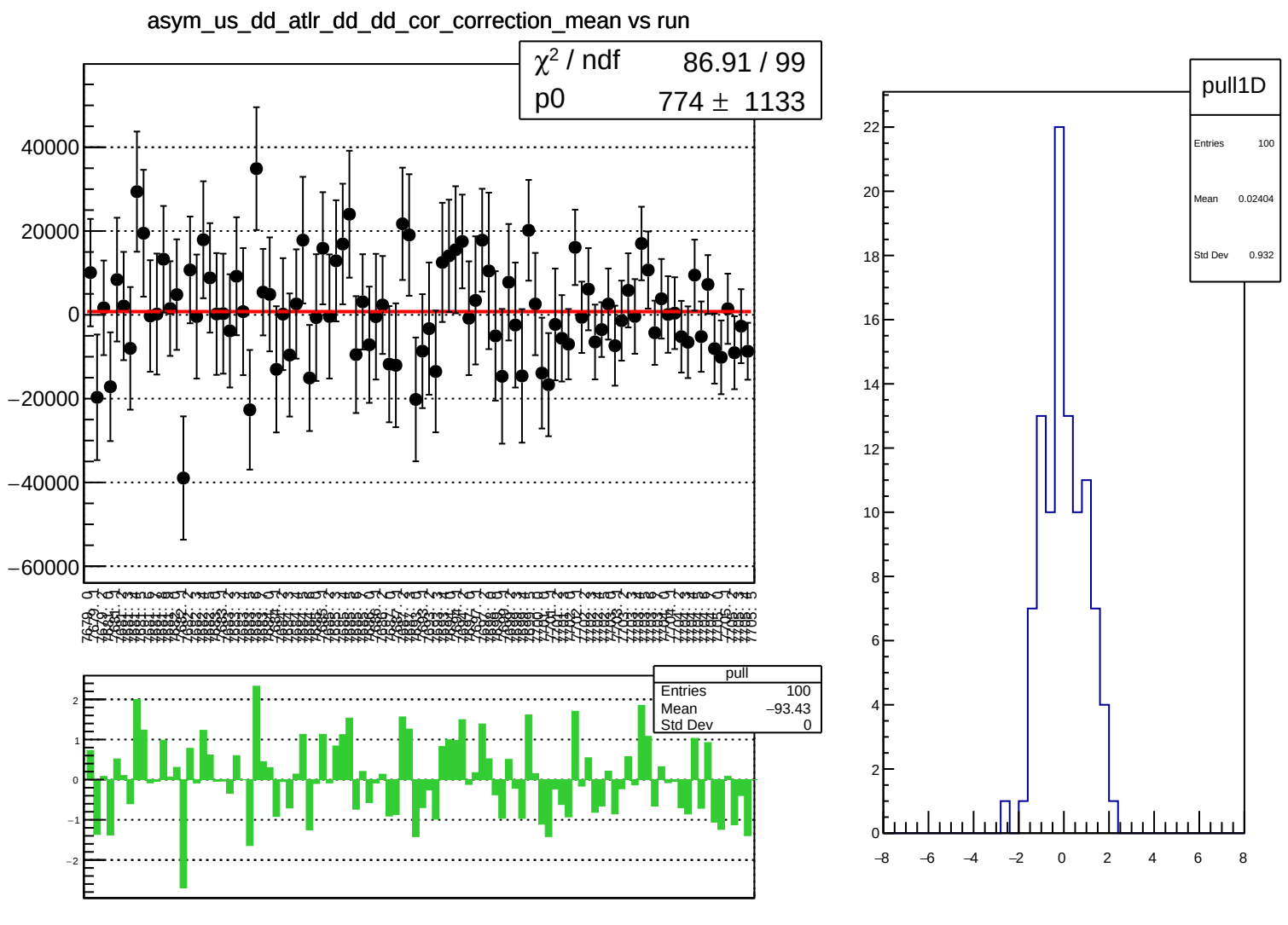

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 86.91 / 99
p0 774 ± 1133
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −93.45
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.02403
Std Dev 0.932
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

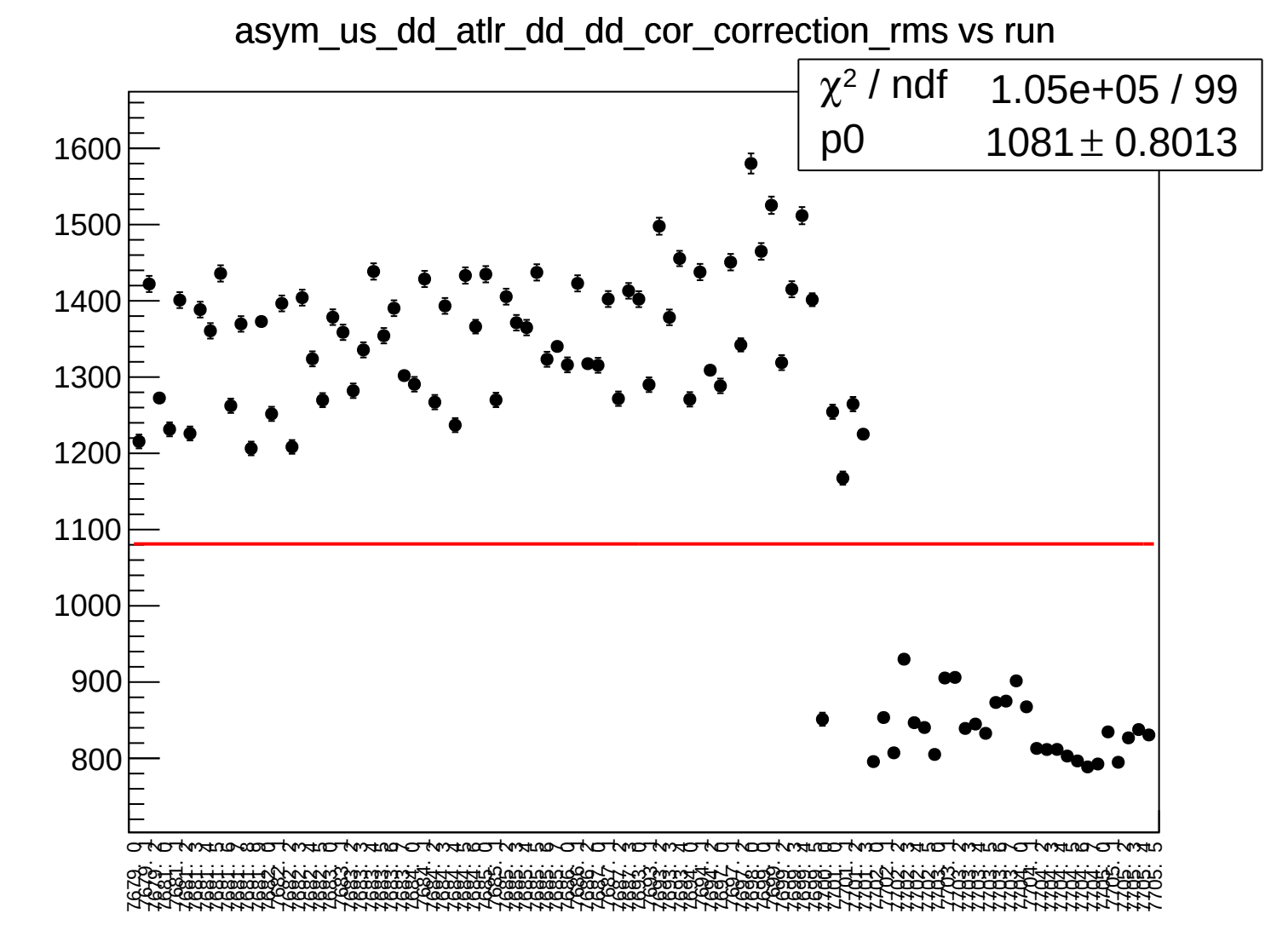

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.05e+05 / 99
p0 1081 ± 0.8013
1600
1500
1400
1300
1200
1100
1000
900
800

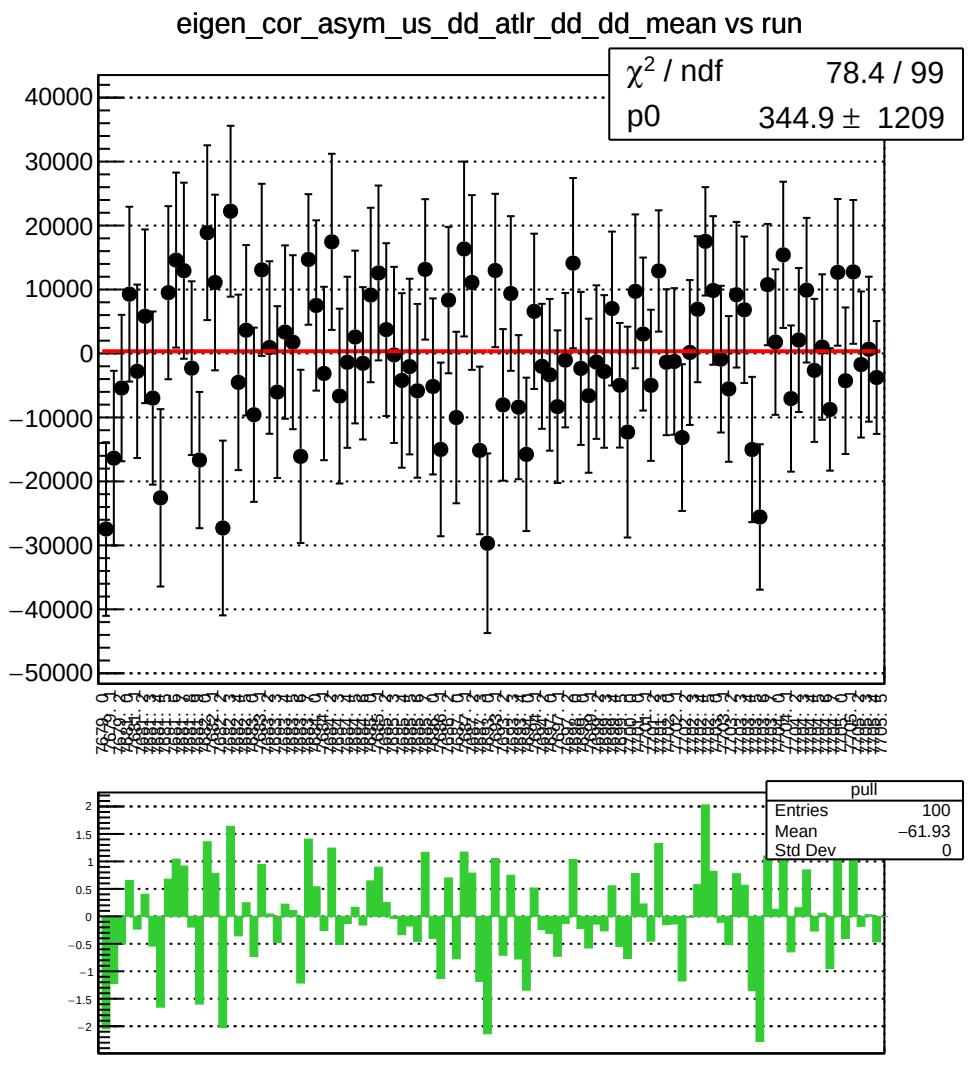

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 78.4 / 99
p0 344.9 ± 1209
pull
Entries 100
Mean −61.93
Std Dev 0

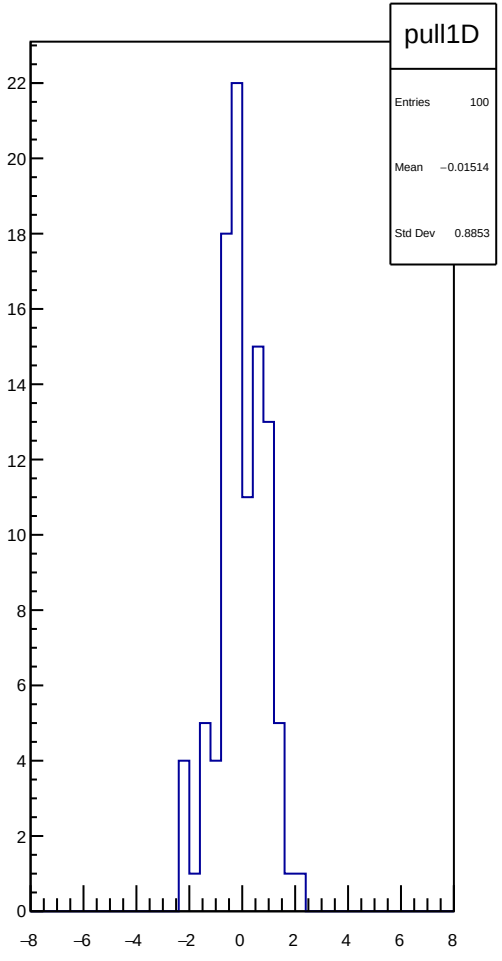

pull1D
Entries 100
Mean −0.01514
Std Dev 0.8853

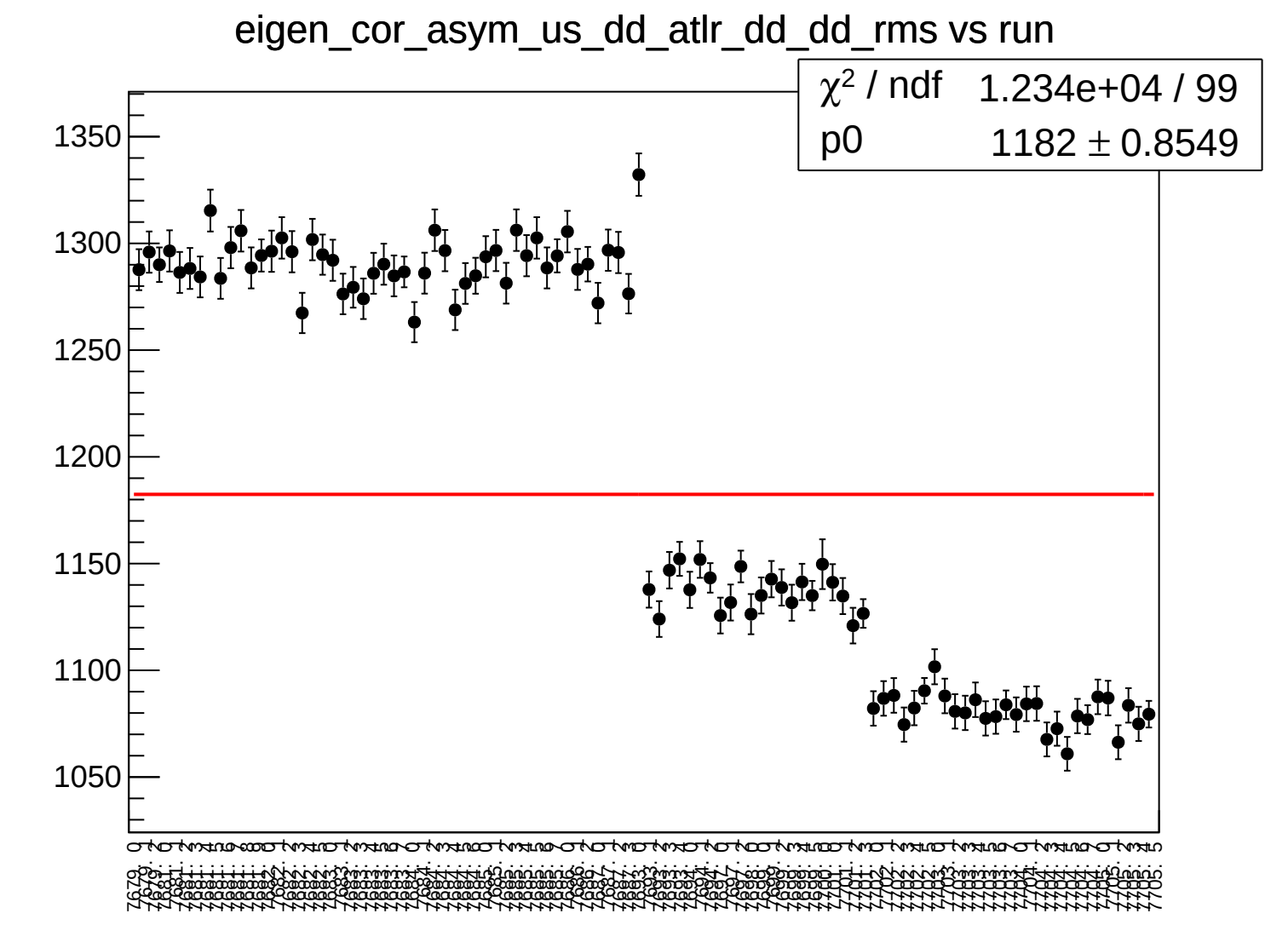

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1.234e+04 / 99
p0 1182 ± 0.8549
1350
1300
1250
1200
1150
1100
1050

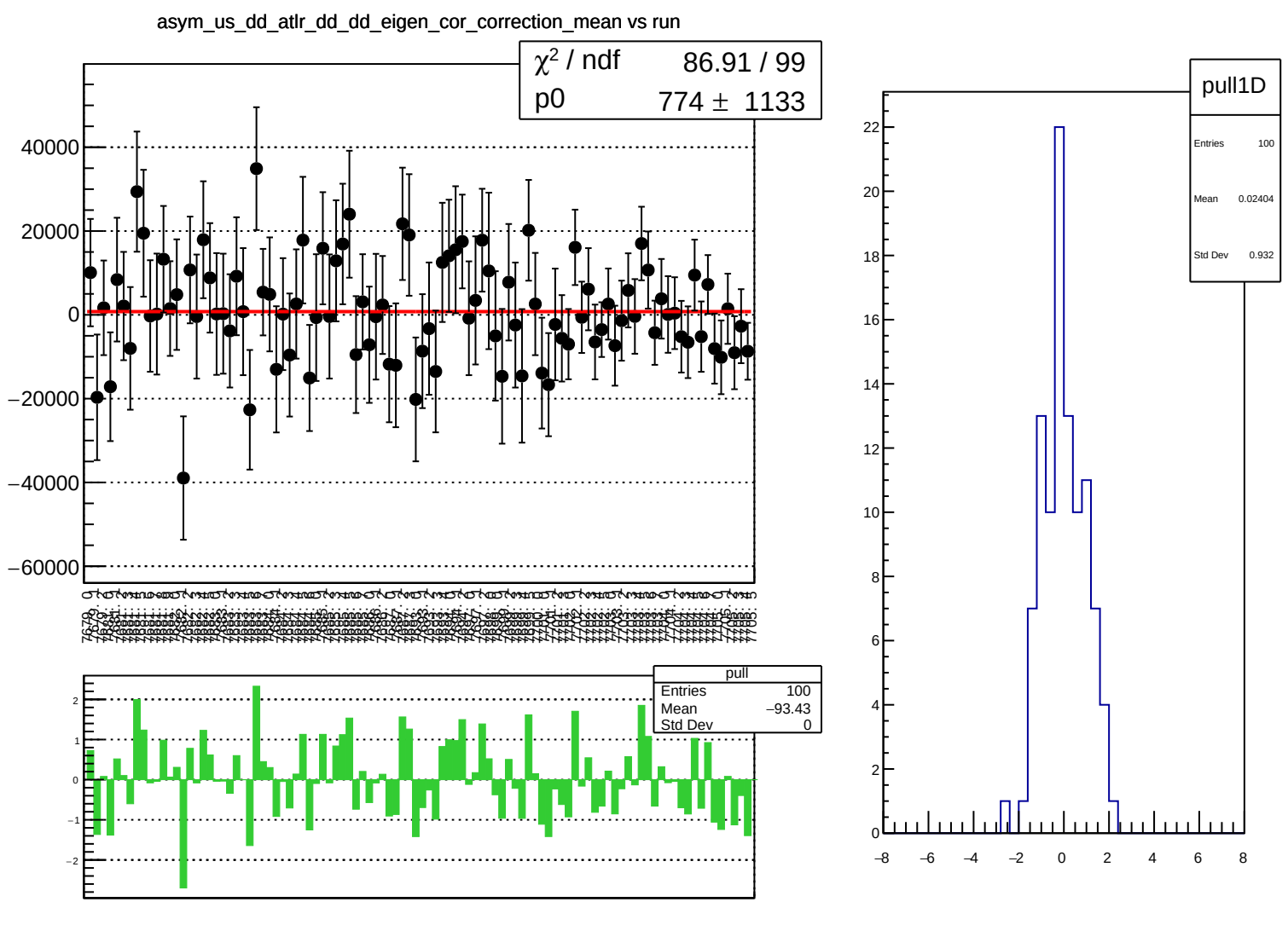

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 86.91 / 99
p0 774 ± 1133
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −93.43
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.02404
Std Dev 0.932
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

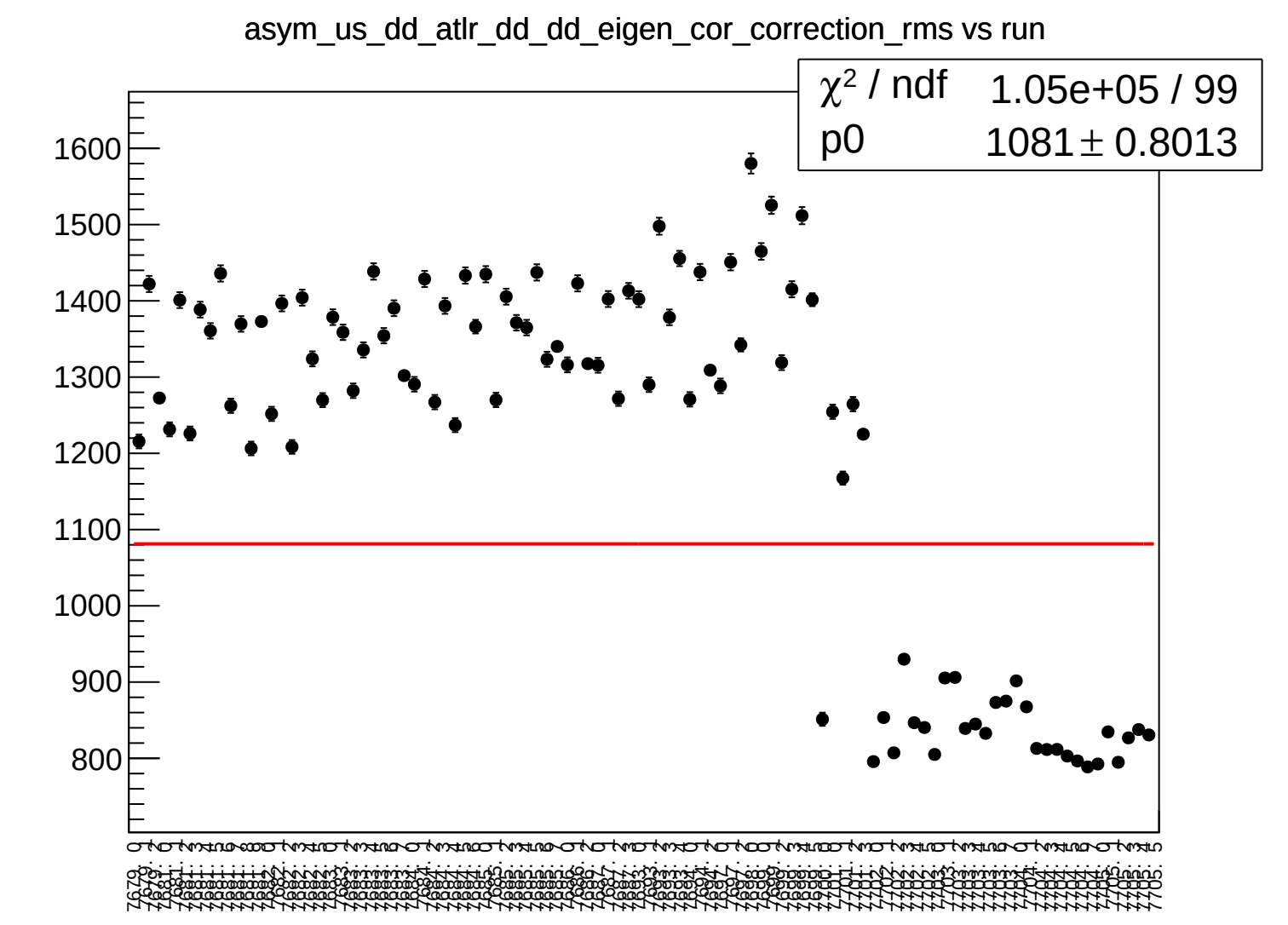

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.05e+05 / 99
p0 1081 ± 0.8013
1600
1500
1400
1300
1200
1100
1000
900
800

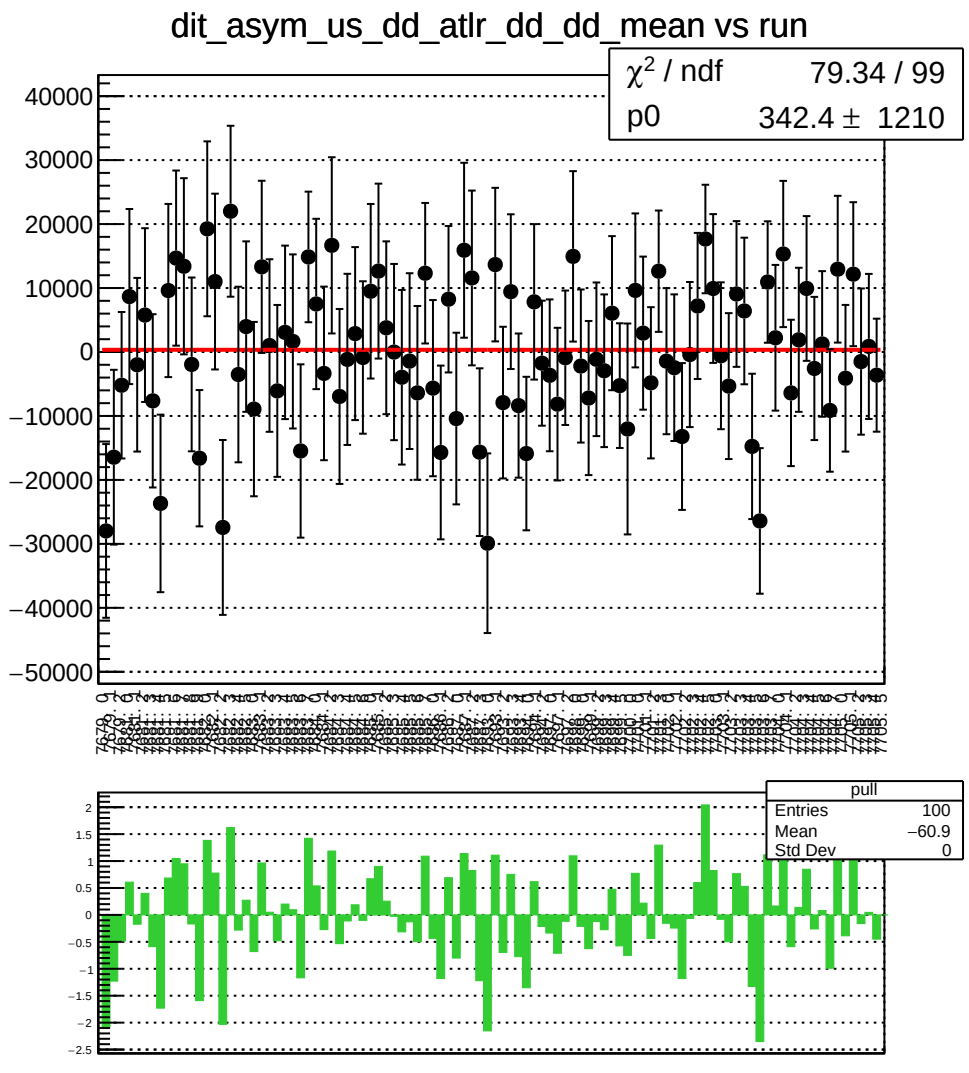

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 78.4 / 99
p0 344.9 ± 1209
pull
Entries 100
Mean −61.93
Std Dev 0

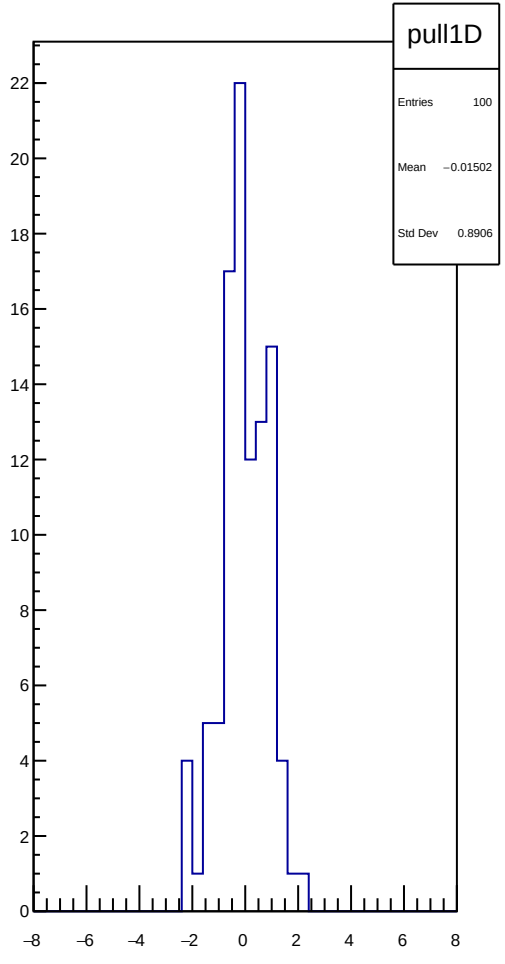

pull1D
Entries 100
Mean −0.01514
Std Dev 0.8853

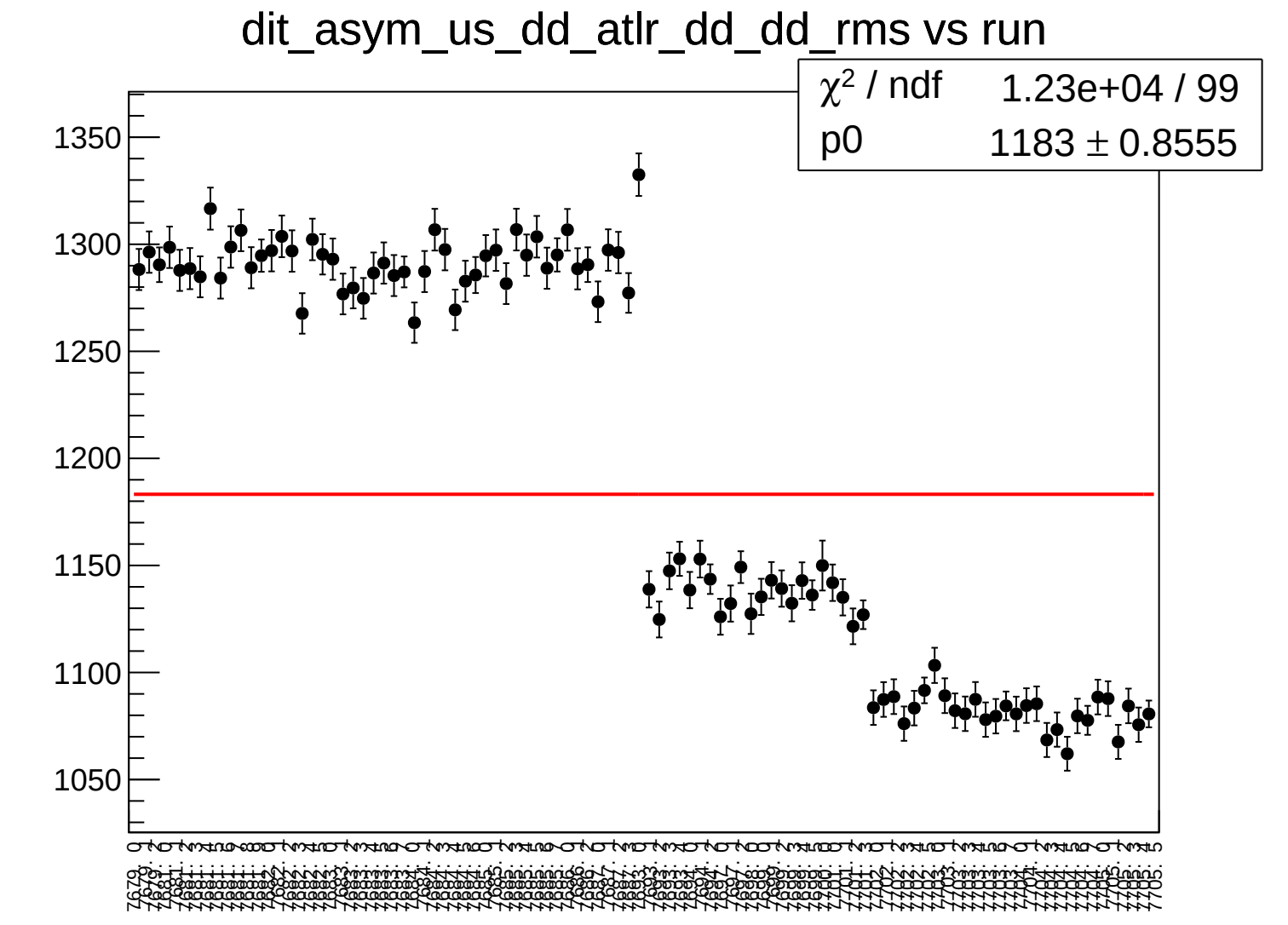

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1.234e+04 / 99
p0 1182 ± 0.8549
1350
1300
1250
1200
1150
1100
1050

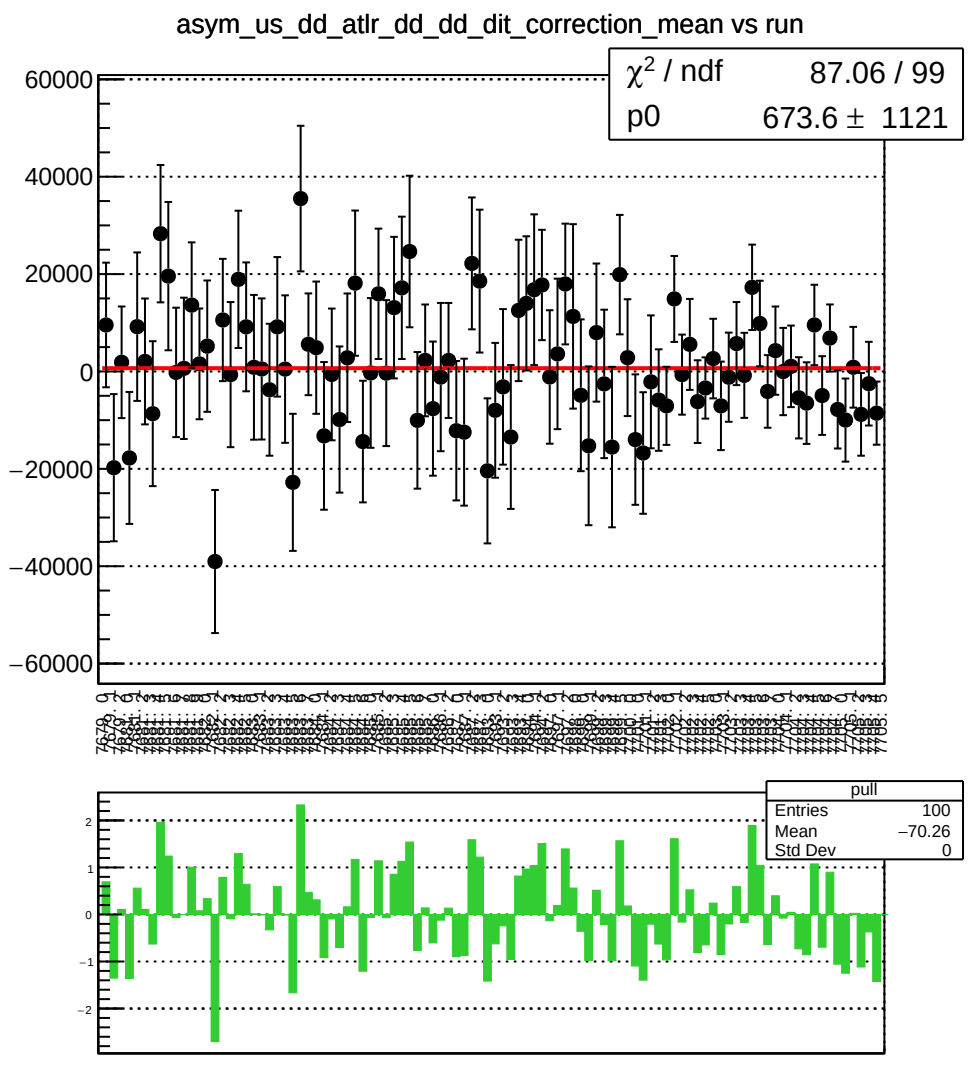

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 86.91 / 99
p0 774 ± 1133
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −93.43
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.02404
Std Dev 0.932
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

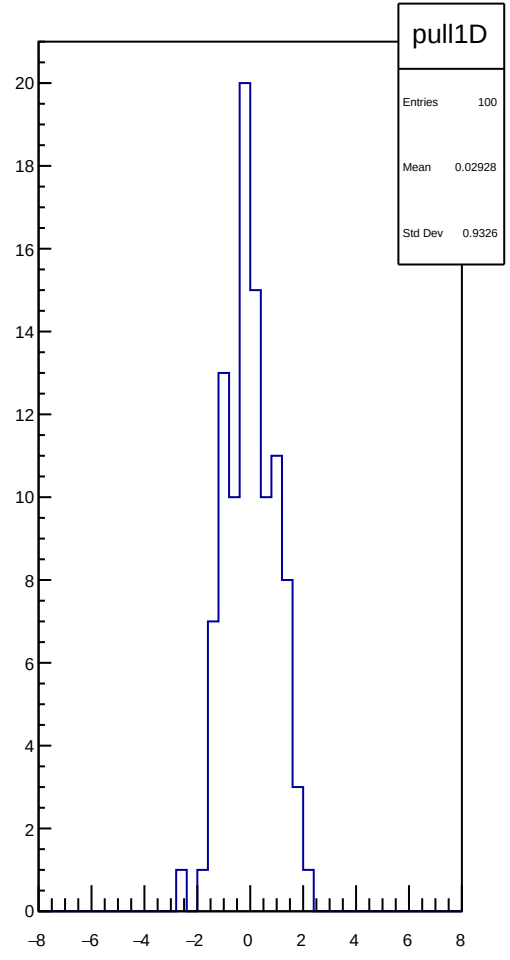

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.05e+05 / 99
p0 1081 ± 0.8013
1600
1500
1400
1300
1200
1100
1000
900
800

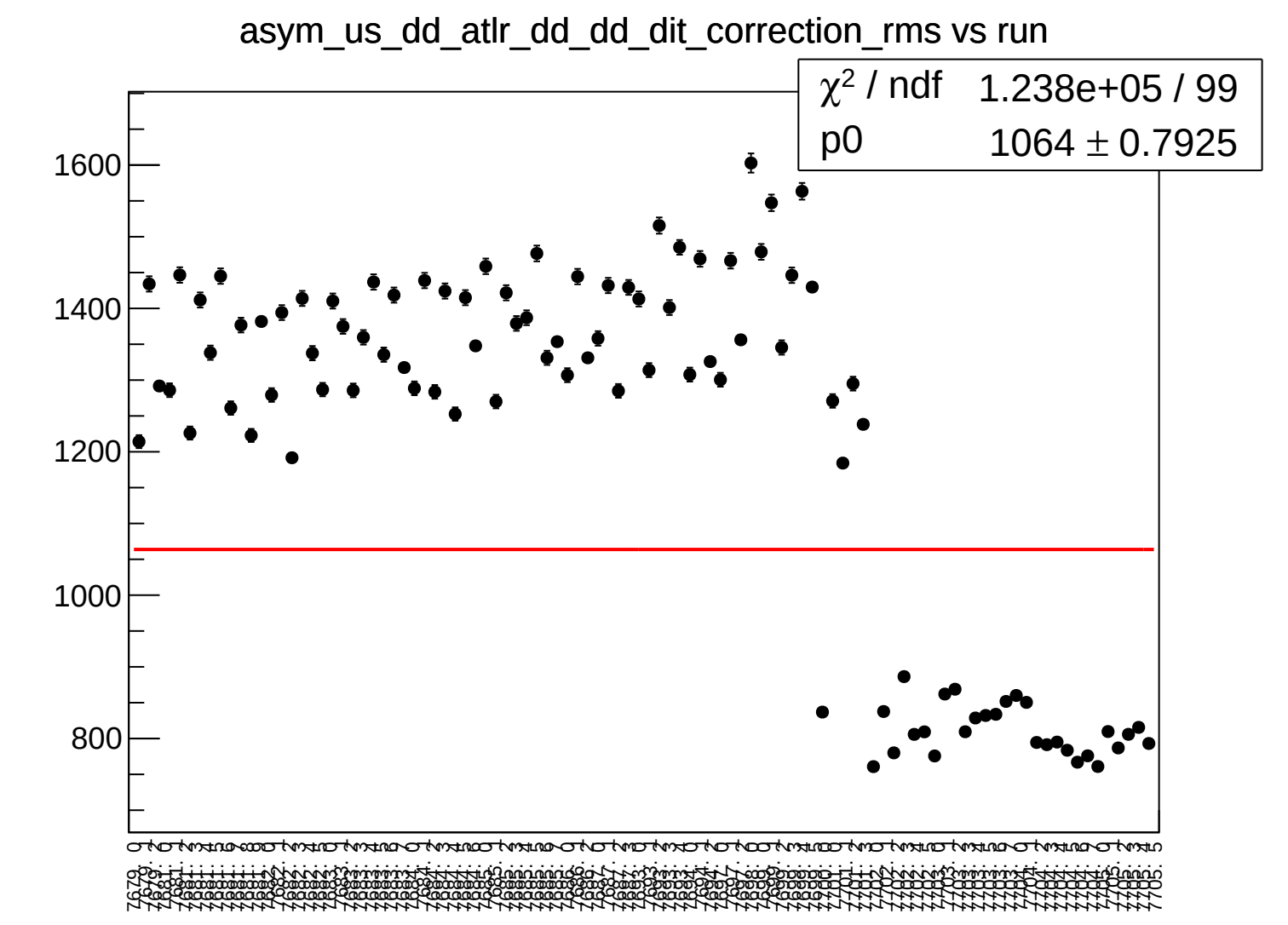

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 79.34 / 99
p0 342.4 ± 1210
pull
Entries 100
Mean −60.9
Std Dev 0

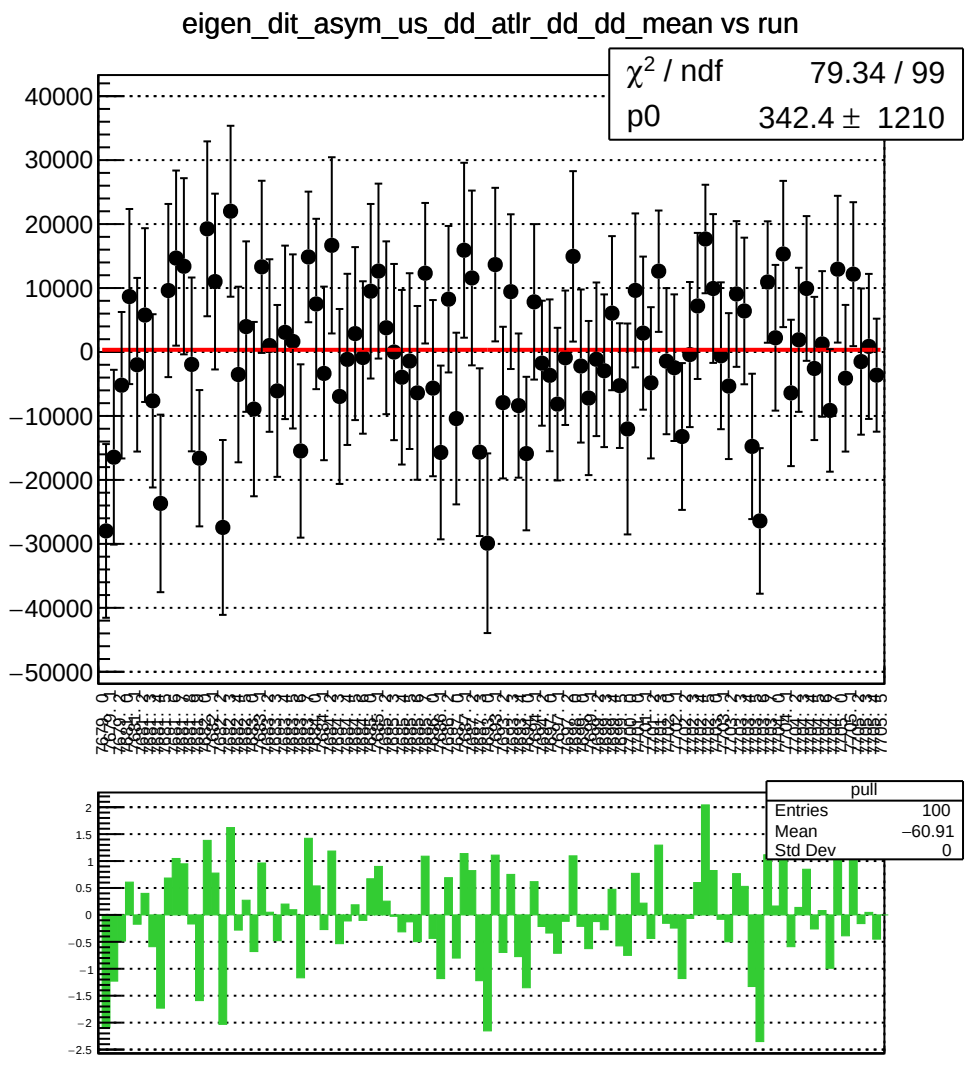

pull1D
Entries 100
Mean −0.01502
Std Dev 0.8906

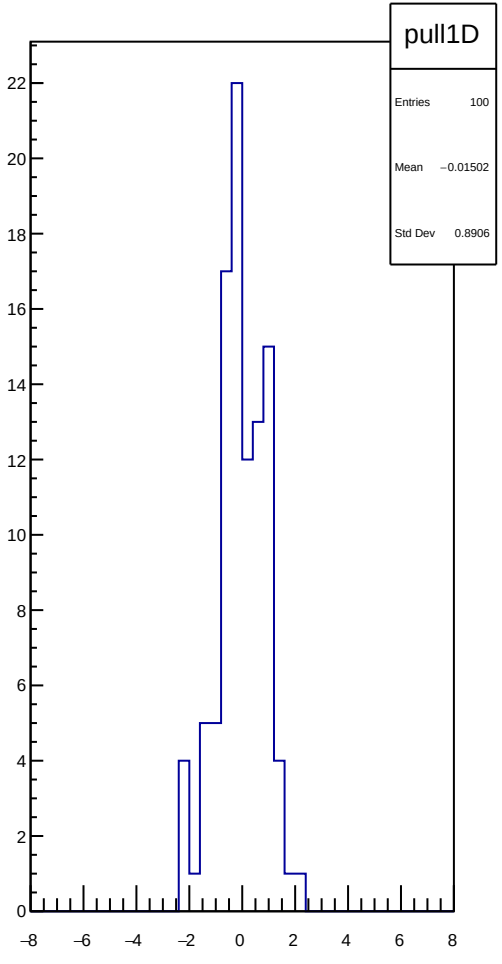

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1.23e+04 / 99
p0 1183 ± 0.8555
1350
1300
1250
1200
1150
1100
1050

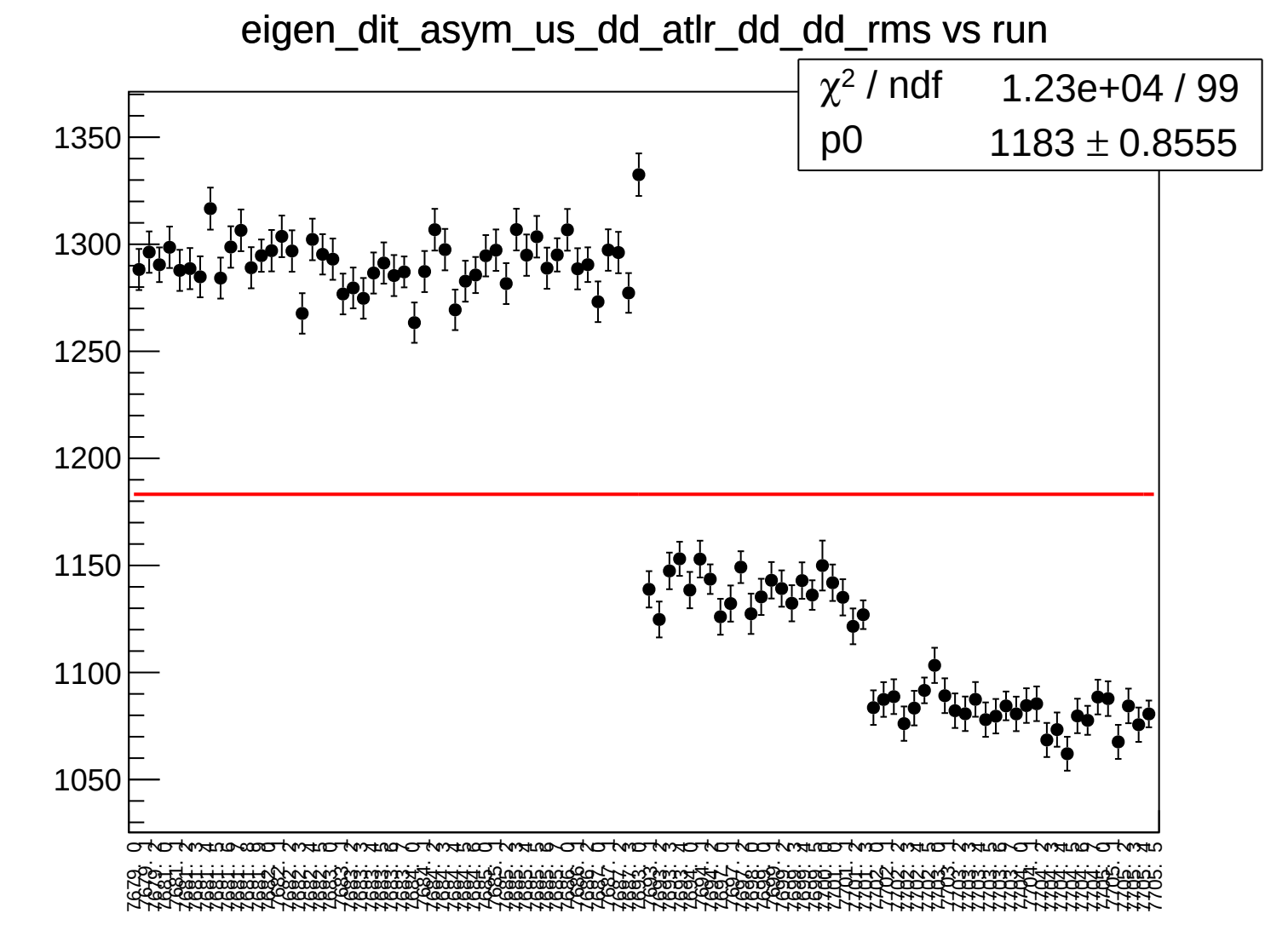

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 87.06 / 99
p0 673.6 ± 1121
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −70.26
Std Dev 0
2
1
0
−1
−2

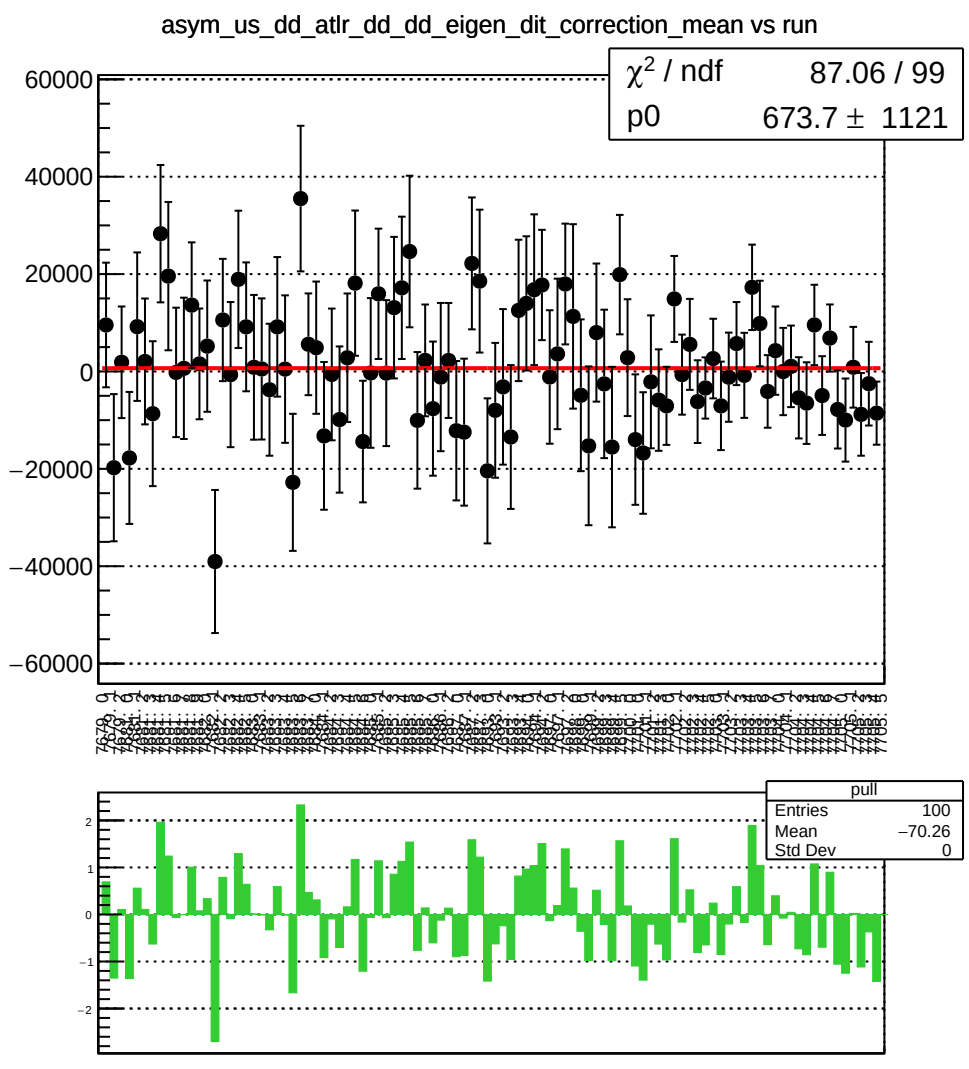

pull1D
Entries 100
Mean 0.02928
Std Dev 0.9326
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

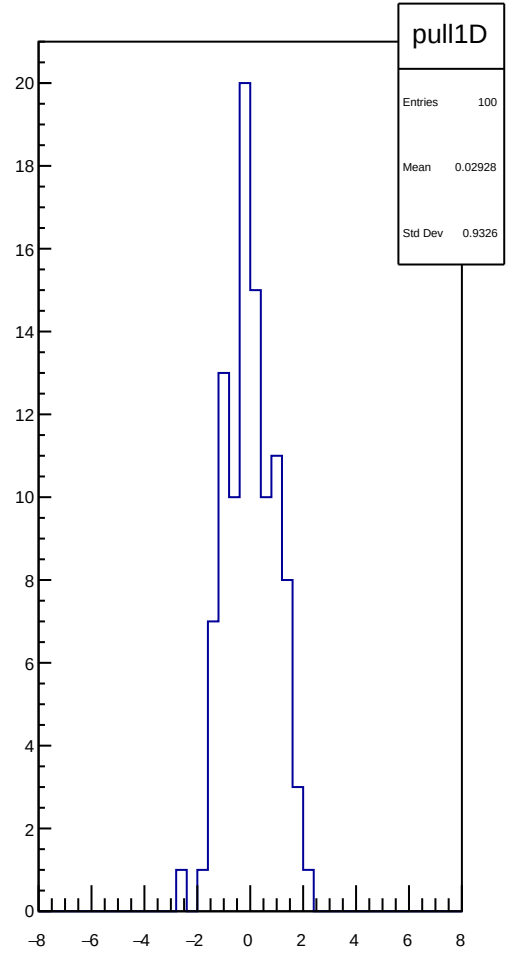

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.238e+05 / 99
p0 1064 ± 0.7925
1600
1400
1200
1000
800

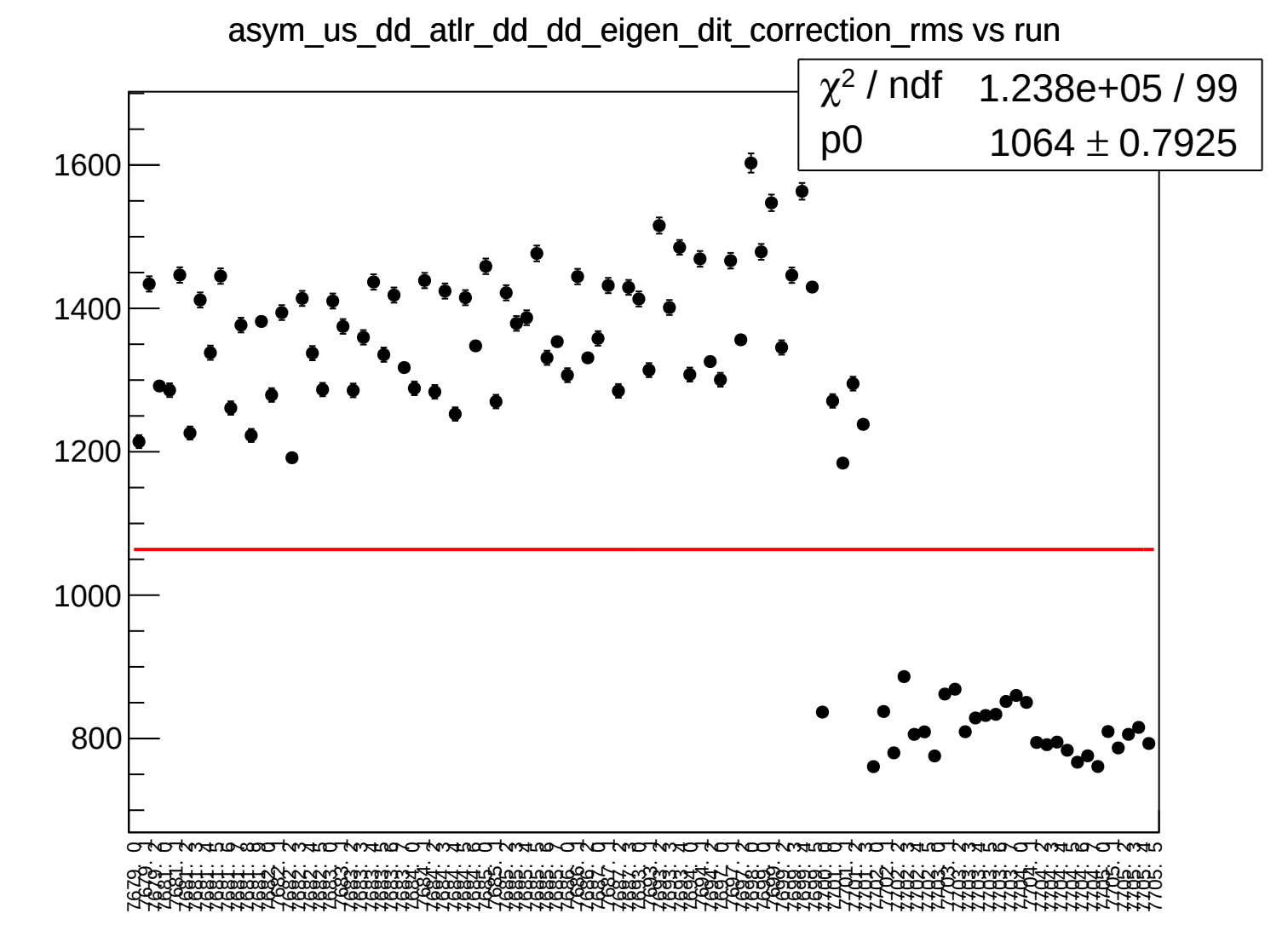

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 79.34 / 99
p0 342.4 ± 1210
pull
Entries 100
Mean −60.91
Std Dev 0

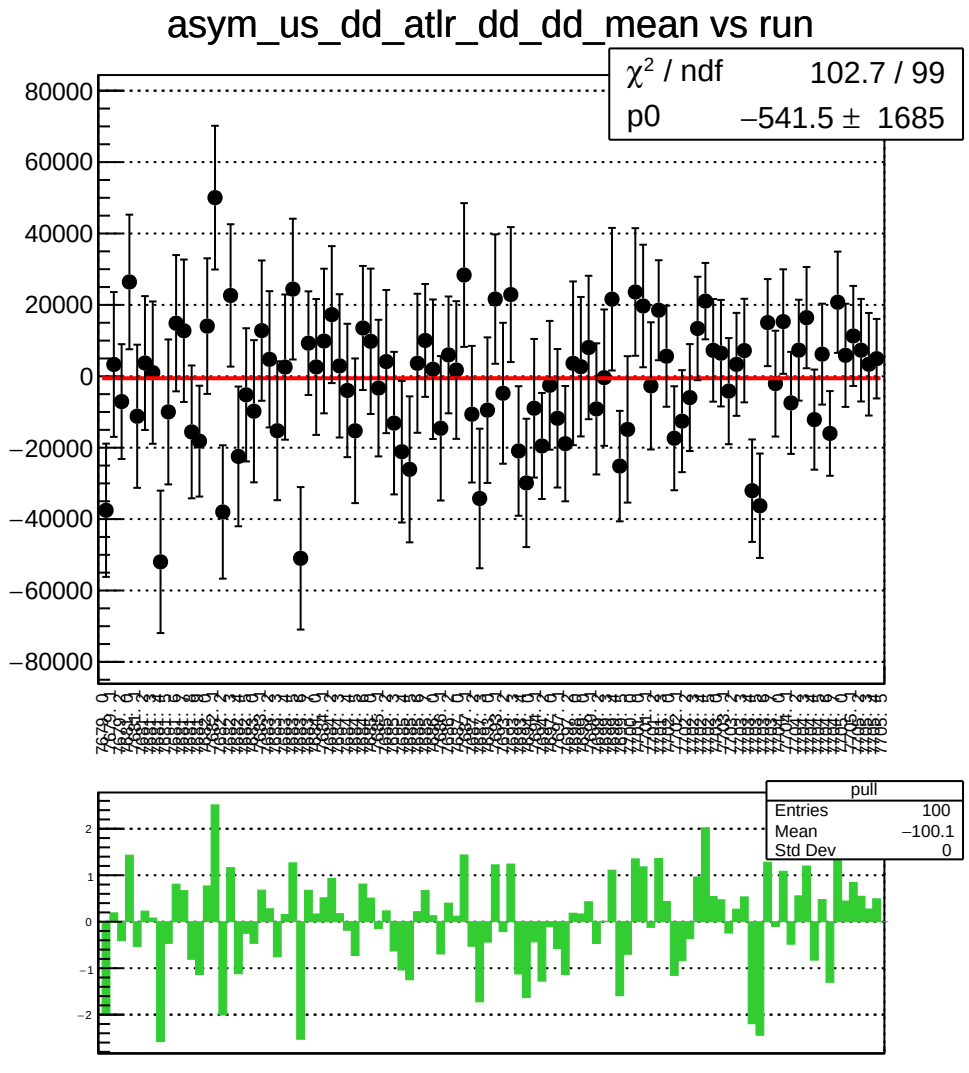

pull1D
Entries 100
Mean −0.01502
Std Dev 0.8906

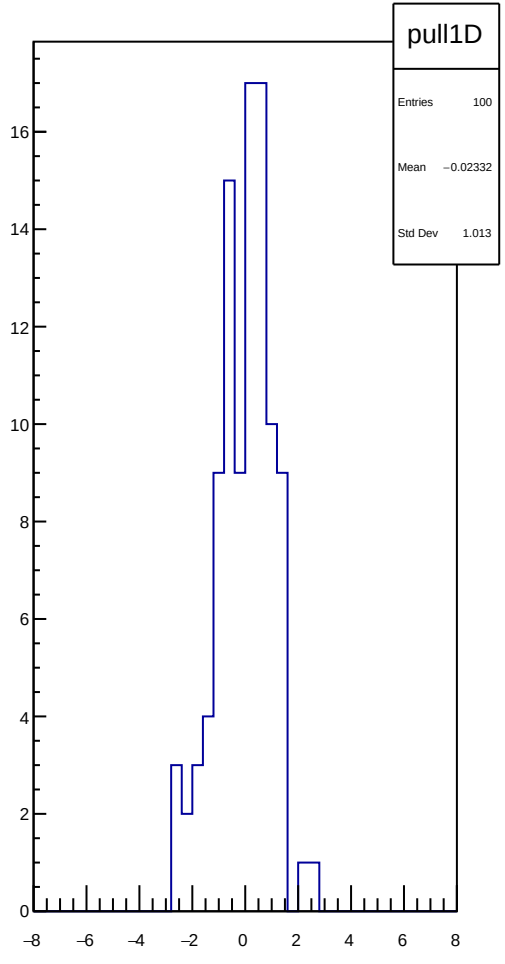

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1.23e+04 / 99
p0 1183 ± 0.8555
1350
1300
1250
1200
1150
1100
1050

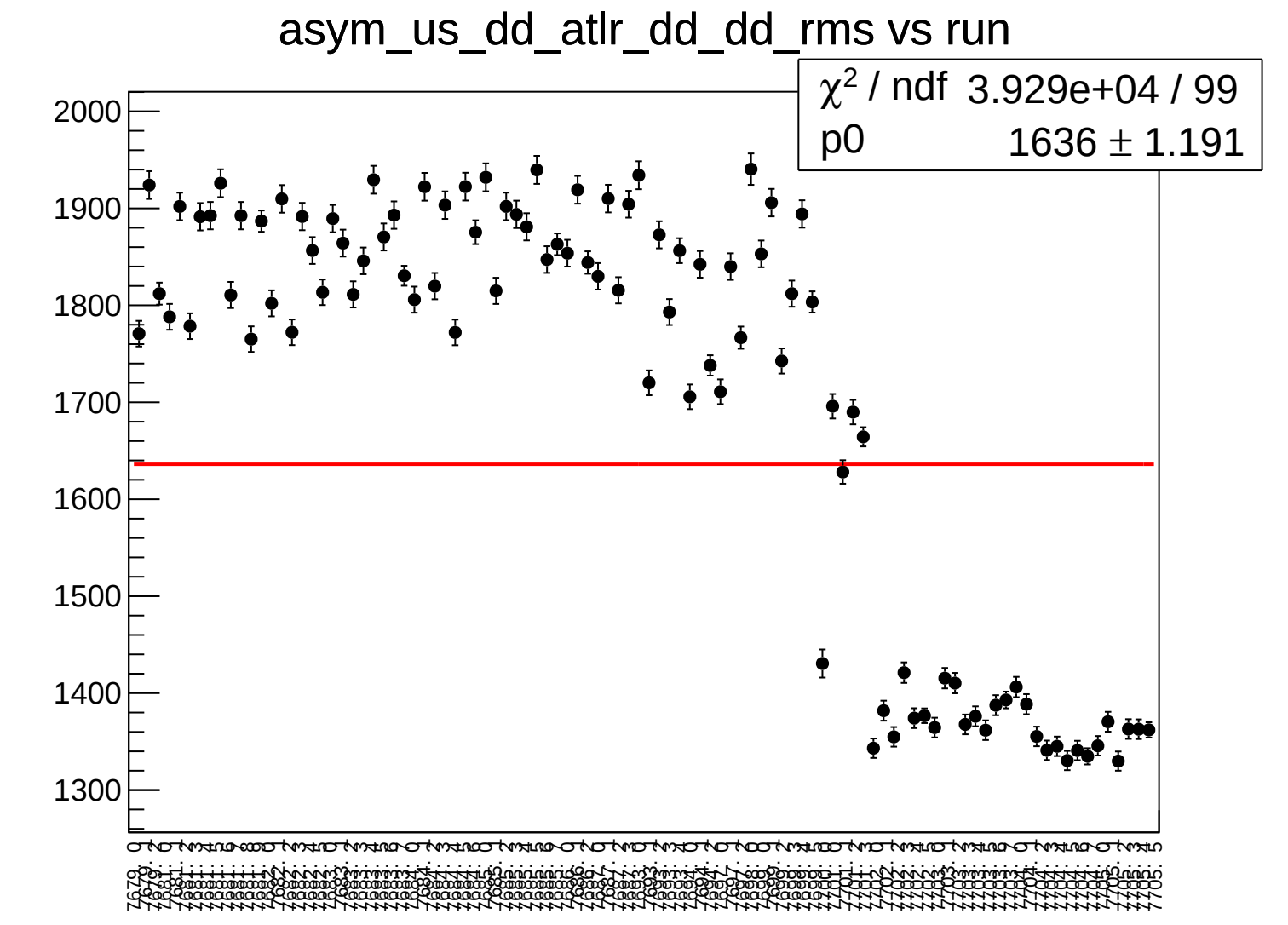

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 87.06 / 99
p0 673.7 ± 1121
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −70.26
Std Dev 0
2
1
0
−1
−2

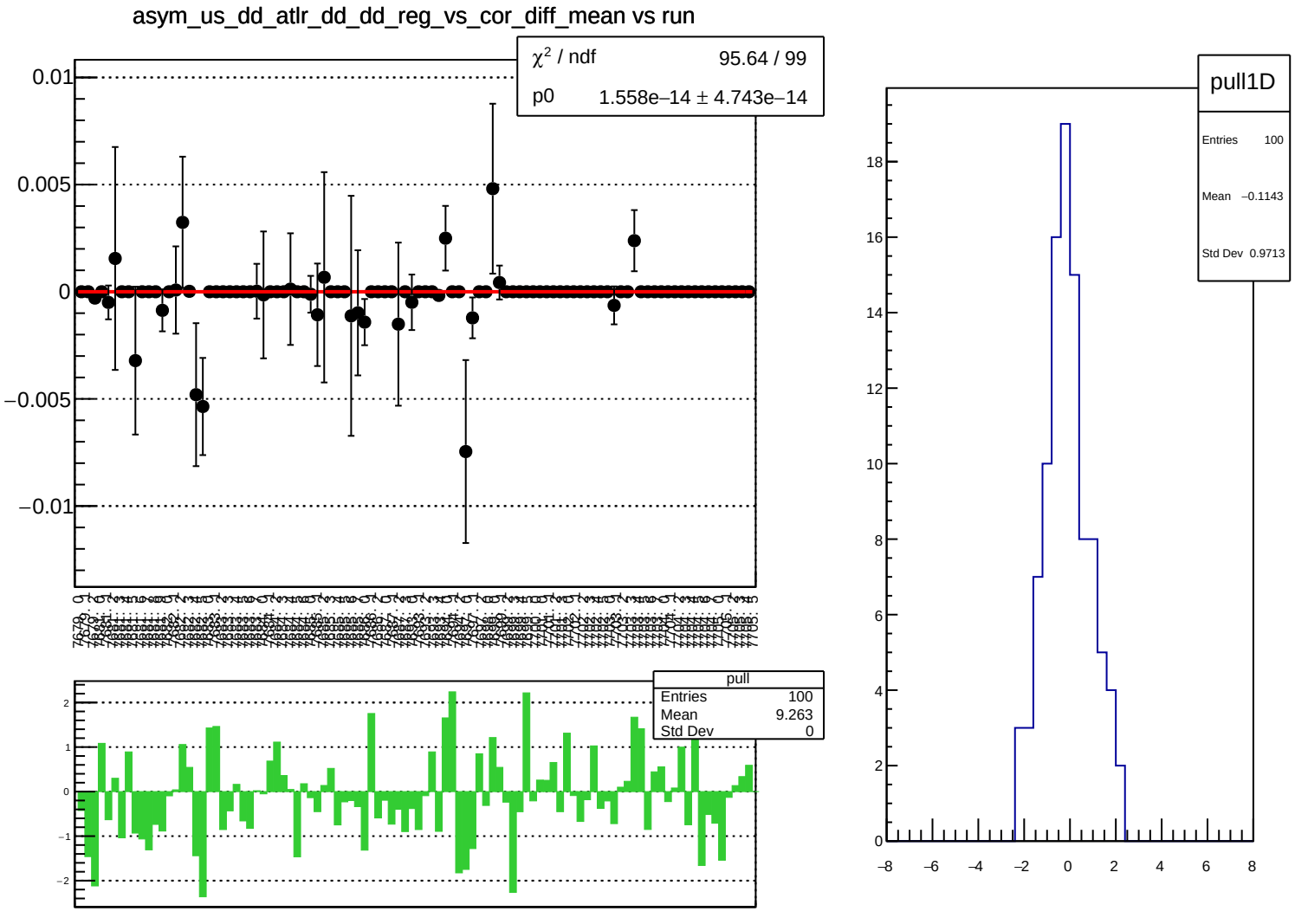

pull1D
Entries 100
Mean 0.02928
Std Dev 0.9326
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

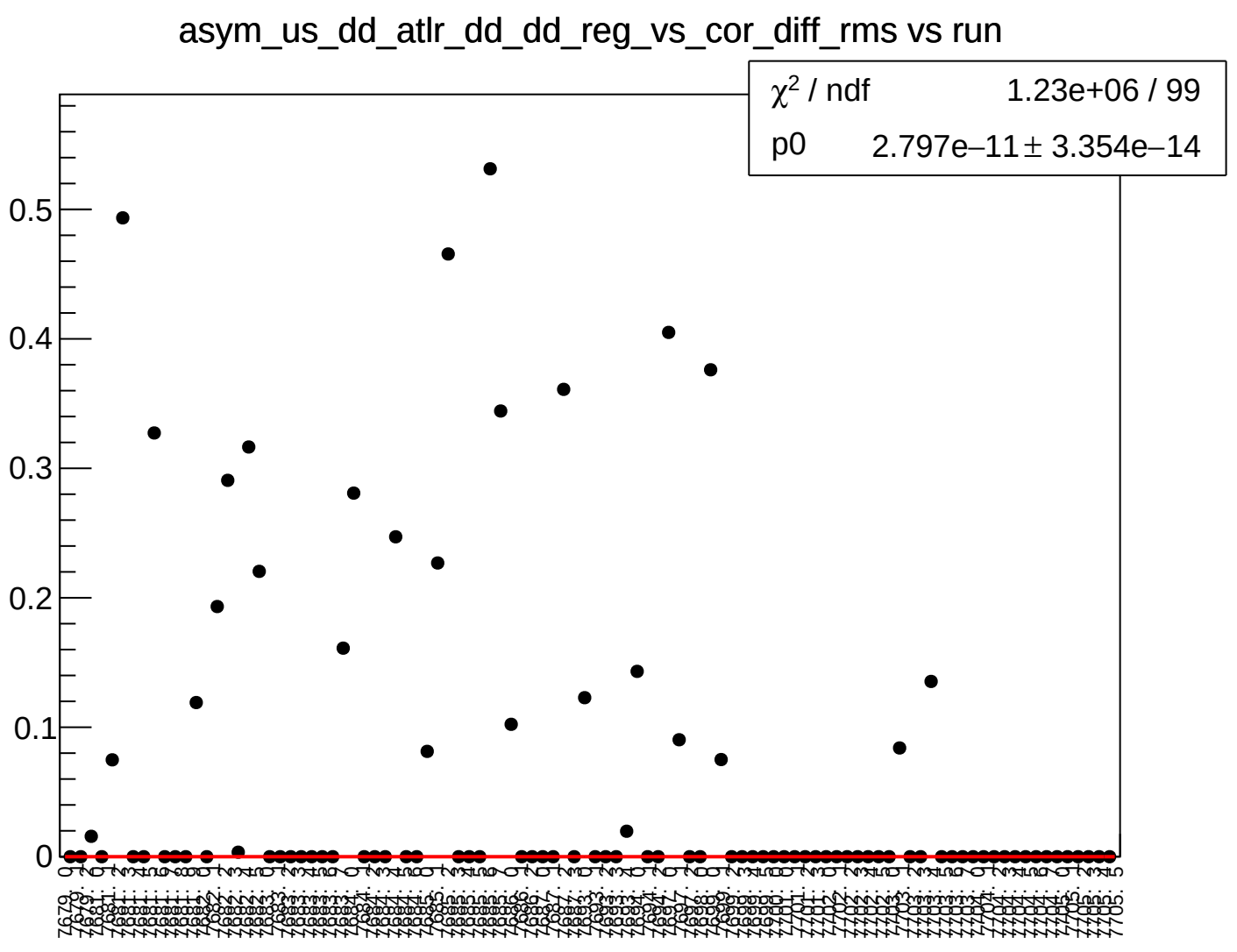

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.238e+05 / 99
p0 1064 ± 0.7925
1600
1400
1200
1000
800

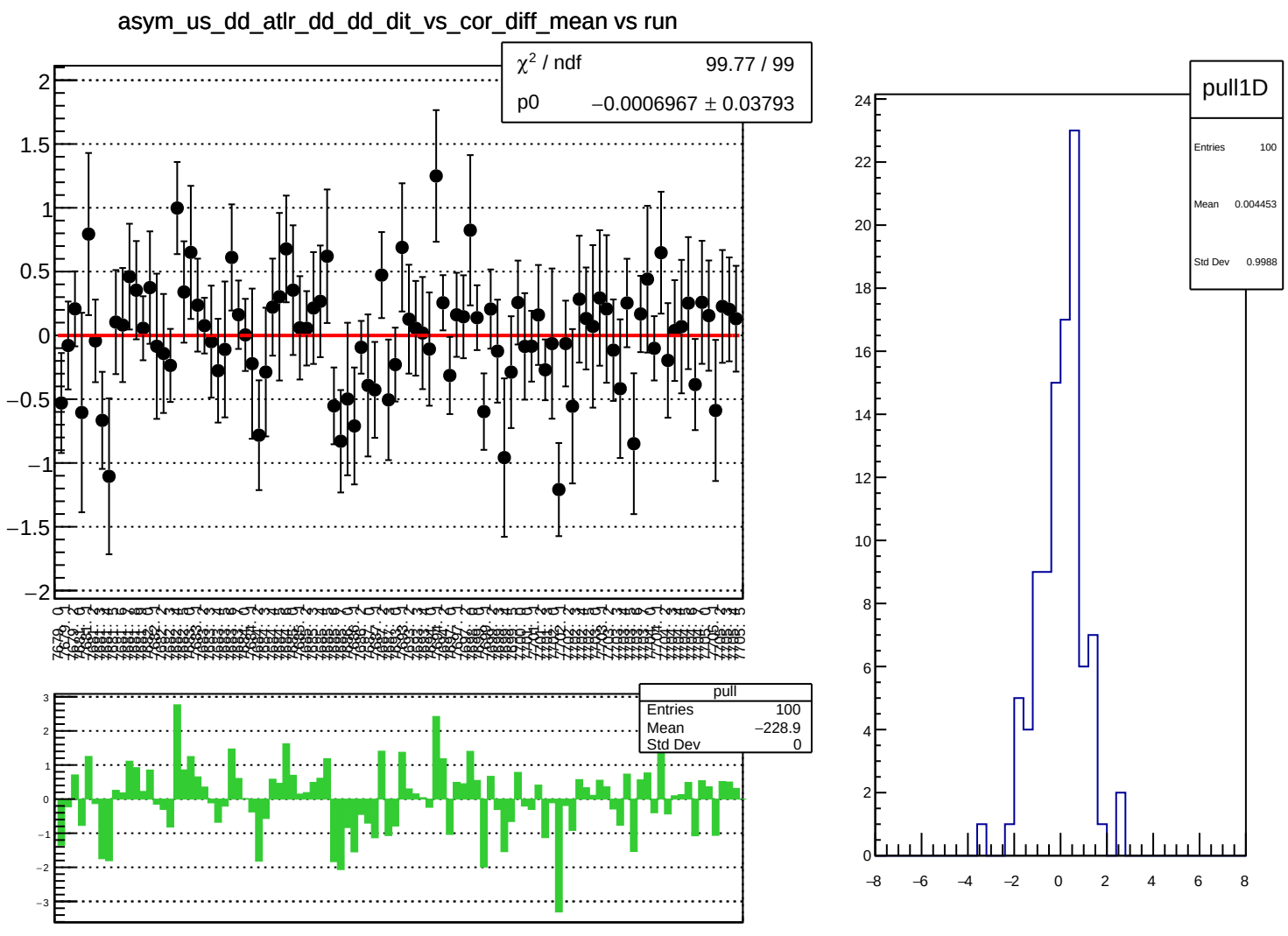

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 102.7 / 99
p0 −541.5 ± 1685
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −100.1
Std Dev 0
2
1
0
−1
−2

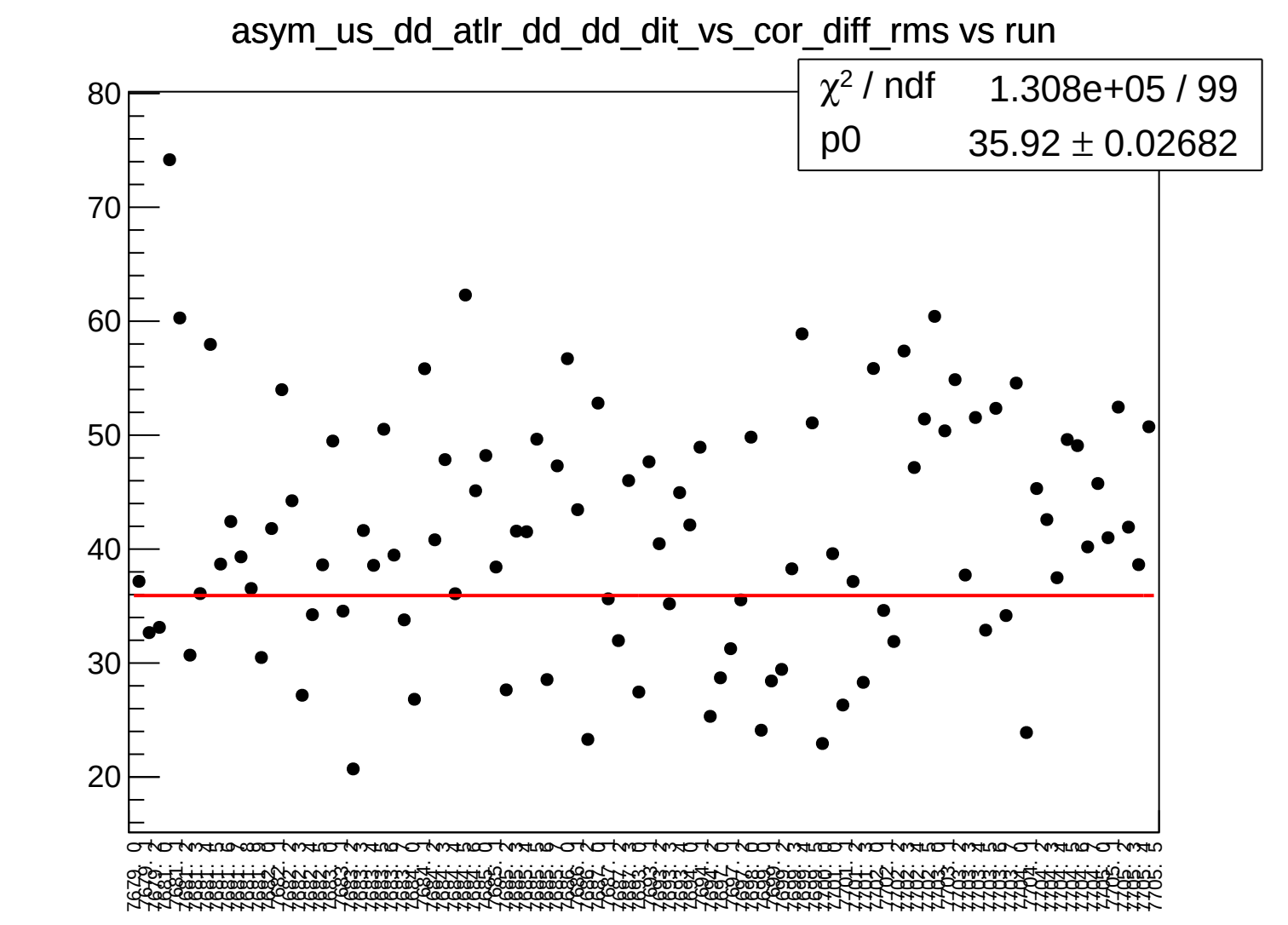

pull1D
Entries 100
Mean −0.02332
Std Dev 1.013
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

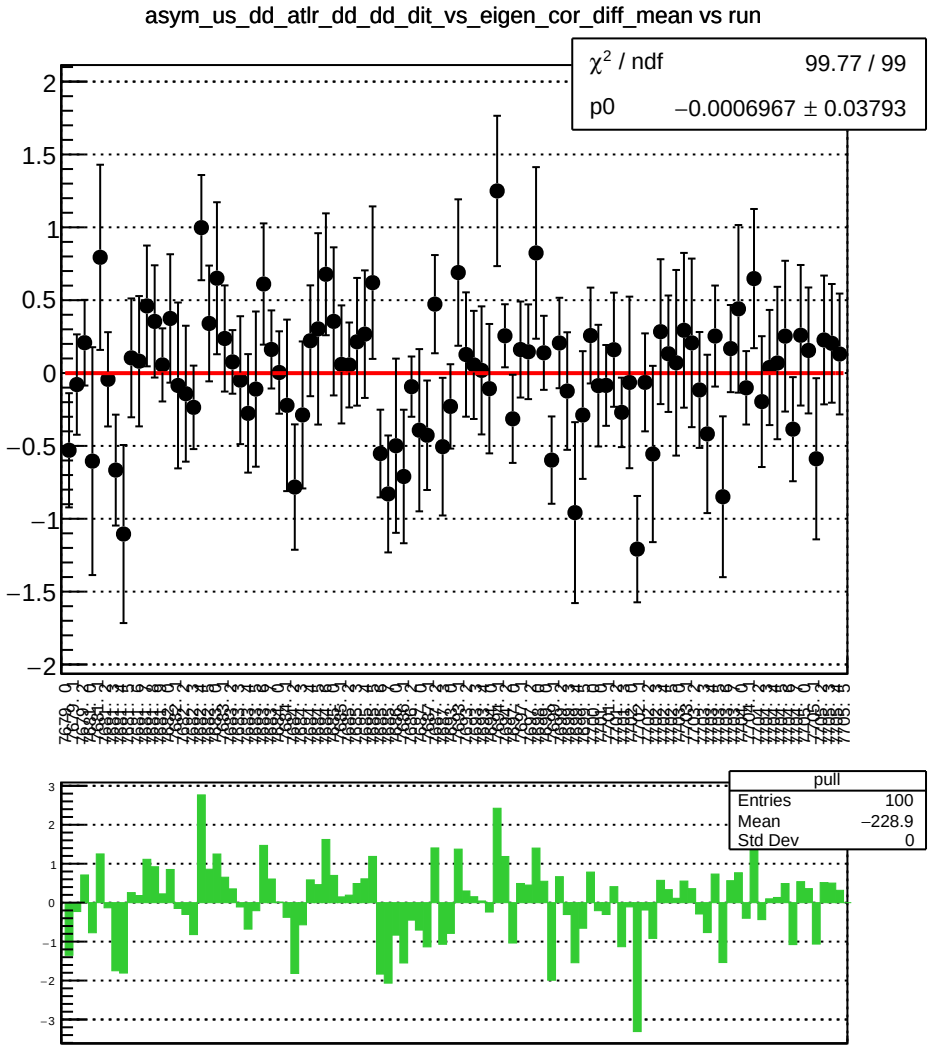

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 3.929e+04 / 99
p0 1636 ± 1.191
2000
1900
1800
1700
1600
1500
1400
1300

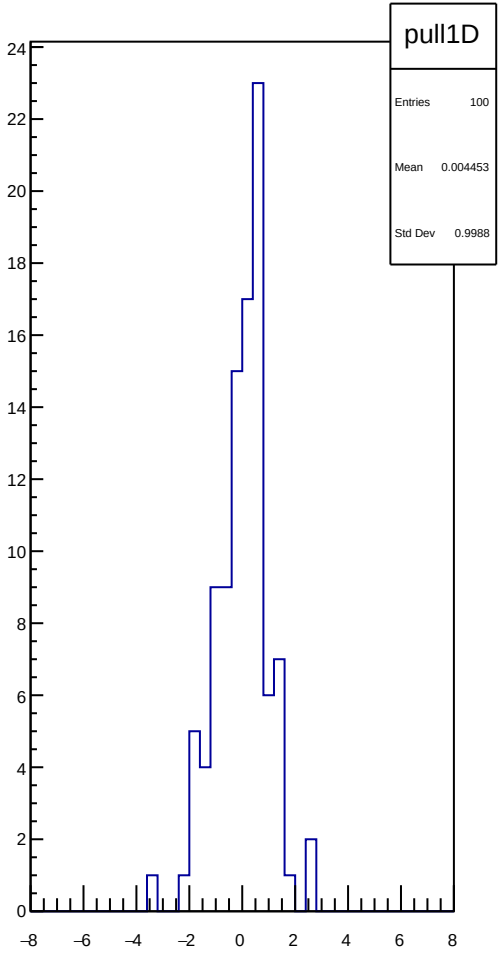

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.64 / 99
p0 1.558e−14 ± 4.743e−14
0.01
0.005
0
−0.005
−0.01
pull
Entries 100
Mean 9.263
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.1143
Std Dev 0.9713
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

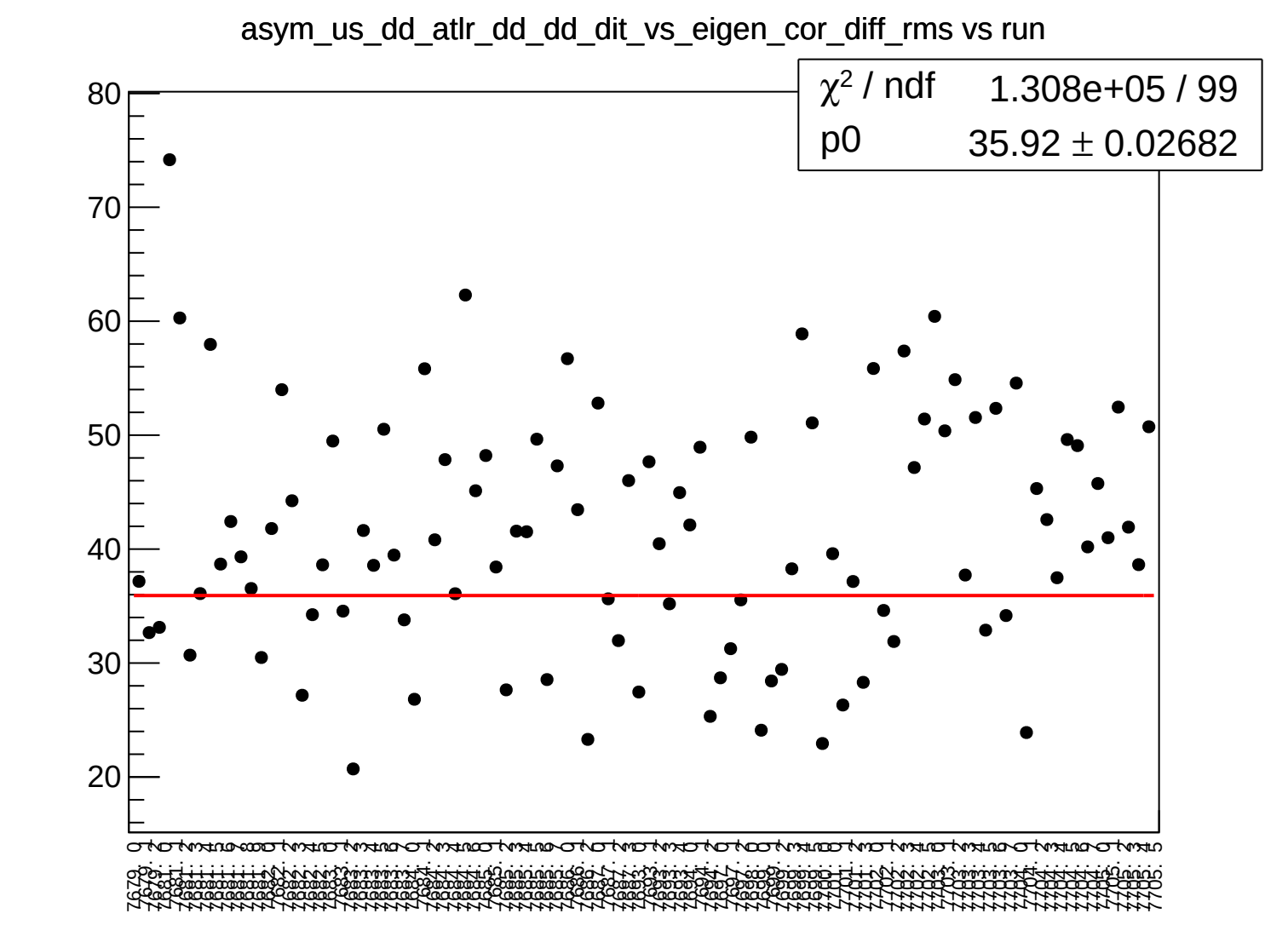

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.23e+06 / 99
p0 2.797e−11 ± 3.354e−14
0.5
0.4
0.3
0.2
0.1
0

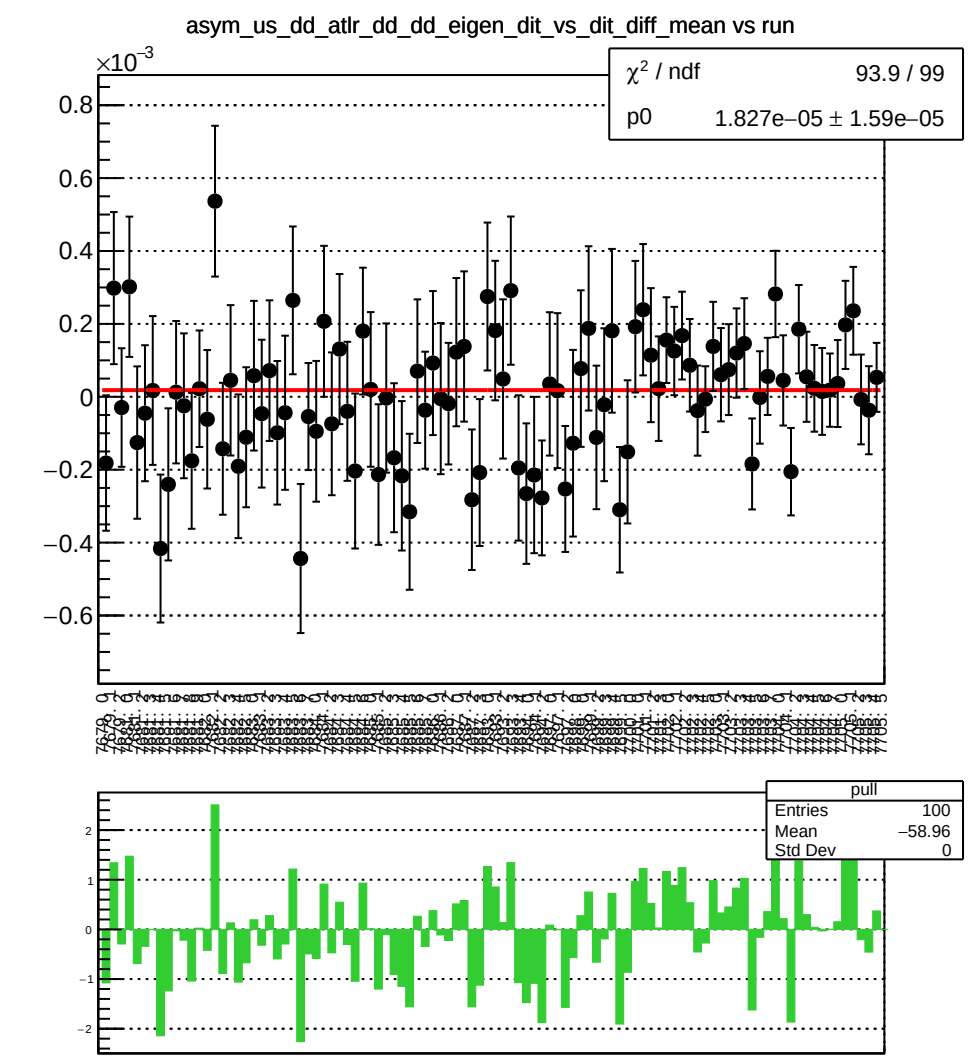

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 99.77 / 99
p0 −0.0006967 ± 0.03793
pull
Entries 100
Mean −228.9
Std Dev 0
pull1D
Entries 100
Mean 0.004453
Std Dev 0.9988

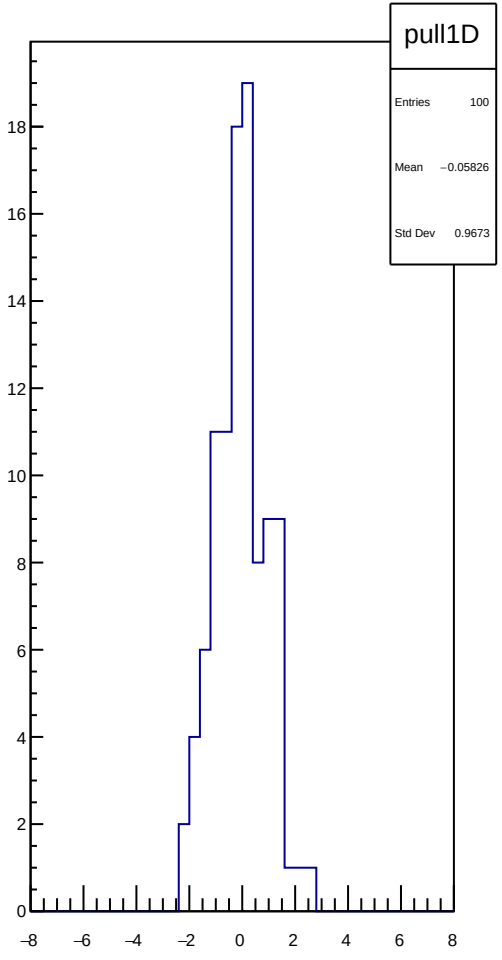

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.308e+05 / 99
p0 35.92 ± 0.02682
80
70
60
50
40
30
20

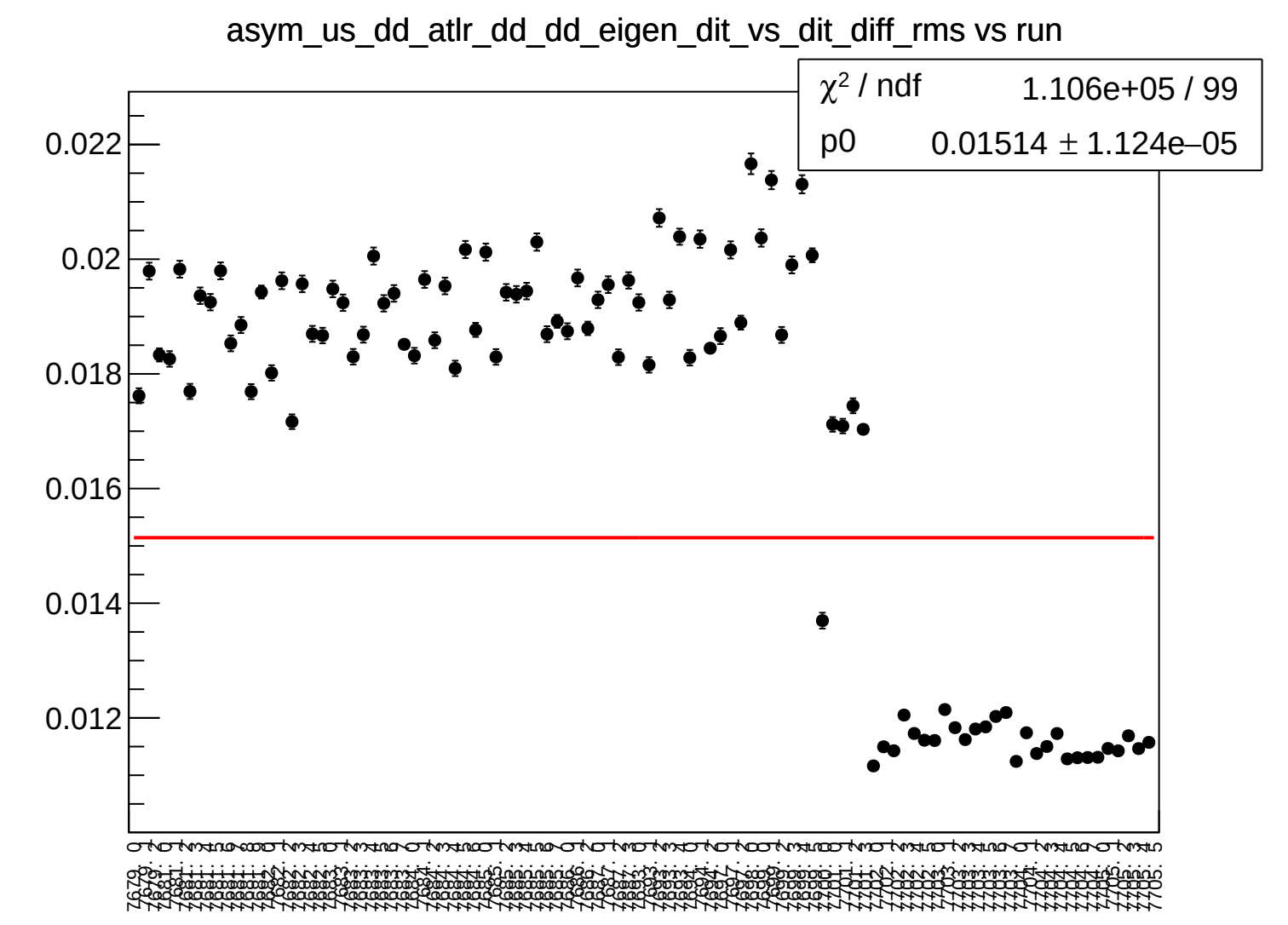

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.77 / 99
p0 −0.0006967 ± 0.03793
pull
Entries 100
Mean −228.9
Std Dev 0

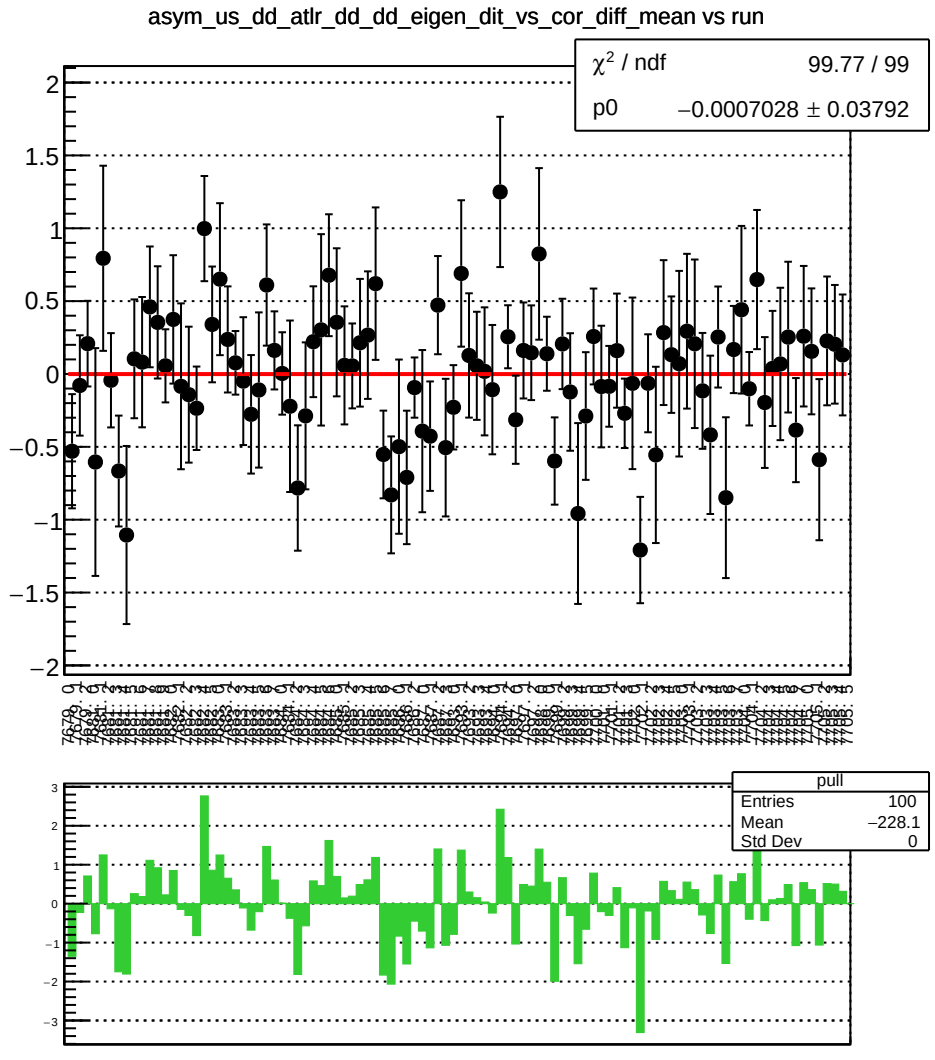

pull1D
Entries 100
Mean 0.004453
Std Dev 0.9988

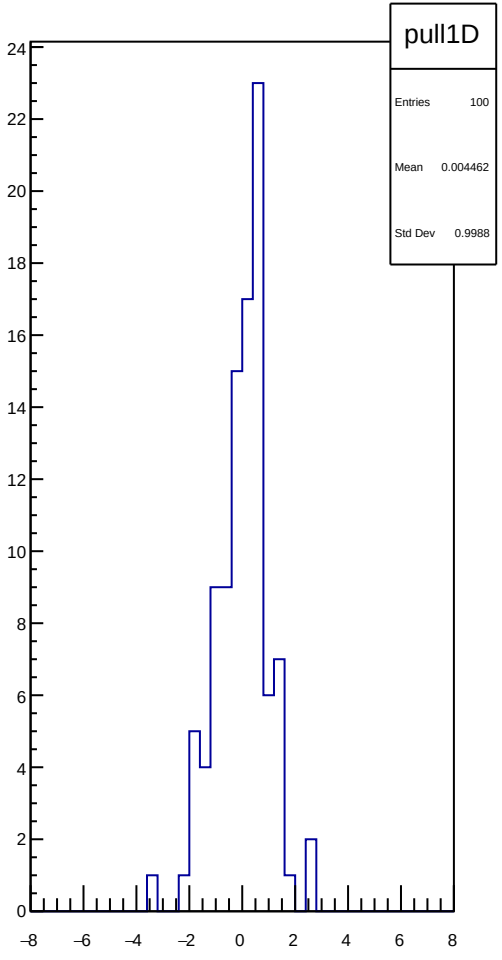

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.308e+05 / 99
p0 35.92 ± 0.02682
80
70
60
50
40
30
20

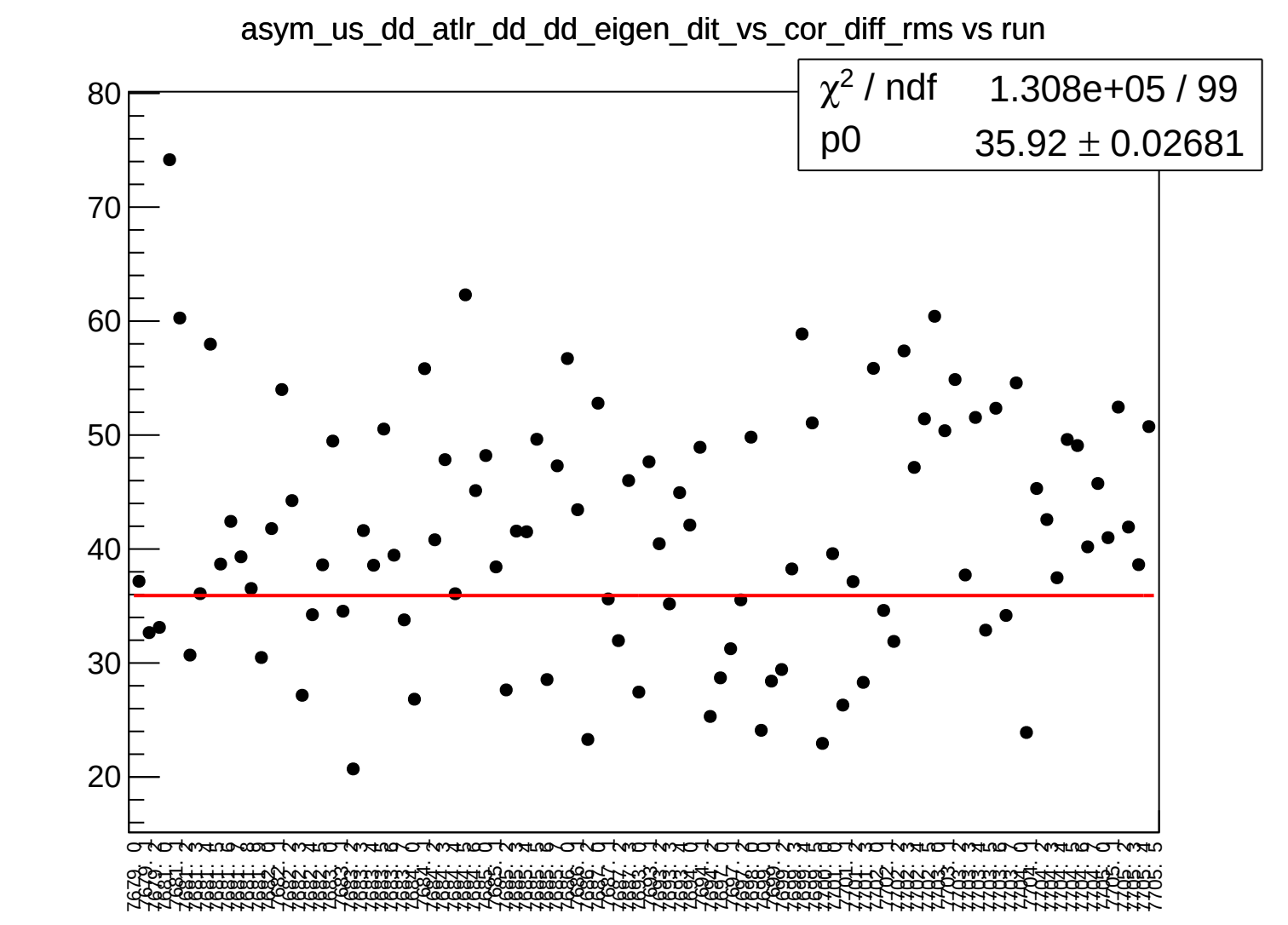

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.9 / 99
p0 1.827e−05 ± 1.59e−05
pull
Entries 100
Mean −58.96
Std Dev 0

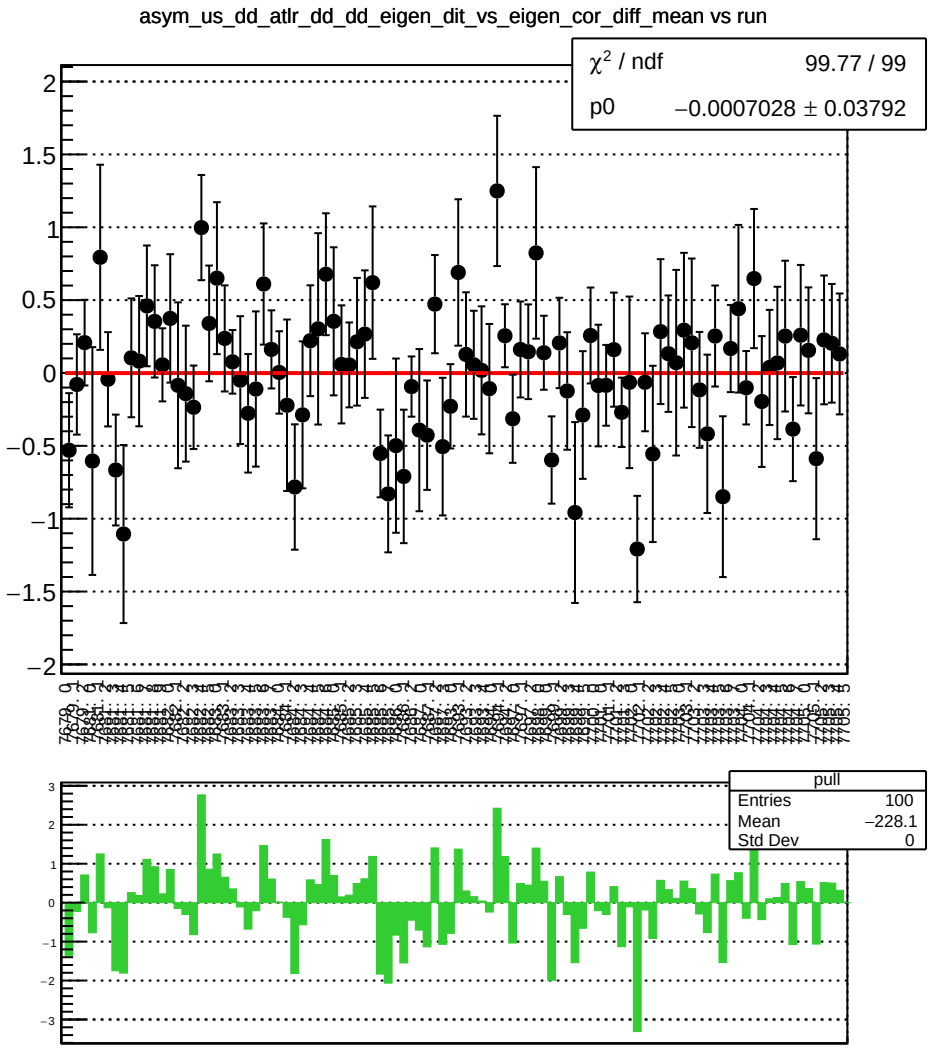

pull1D
Entries 100
Mean −0.05826
Std Dev 0.9673

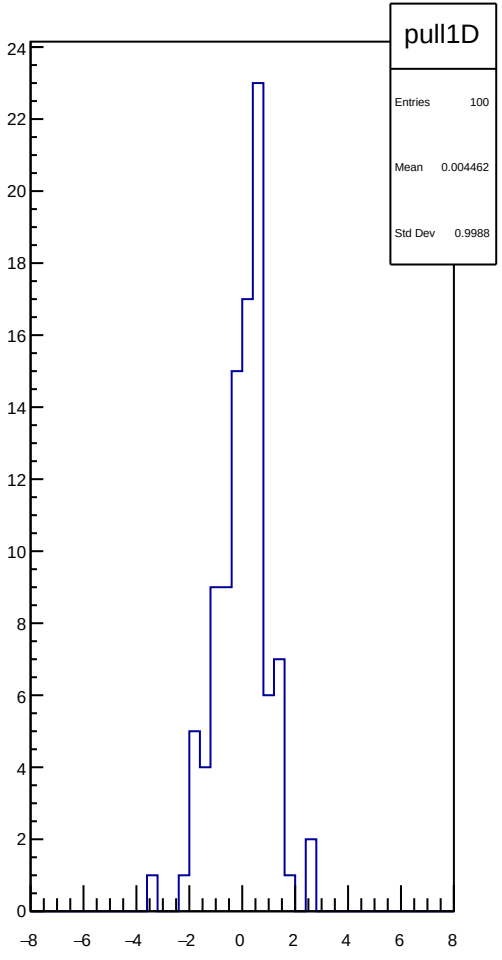

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.106e+05 / 99
p0 0.01514 ± 1.124e−05
0.022
0.02
0.018
0.016
0.014
0.012

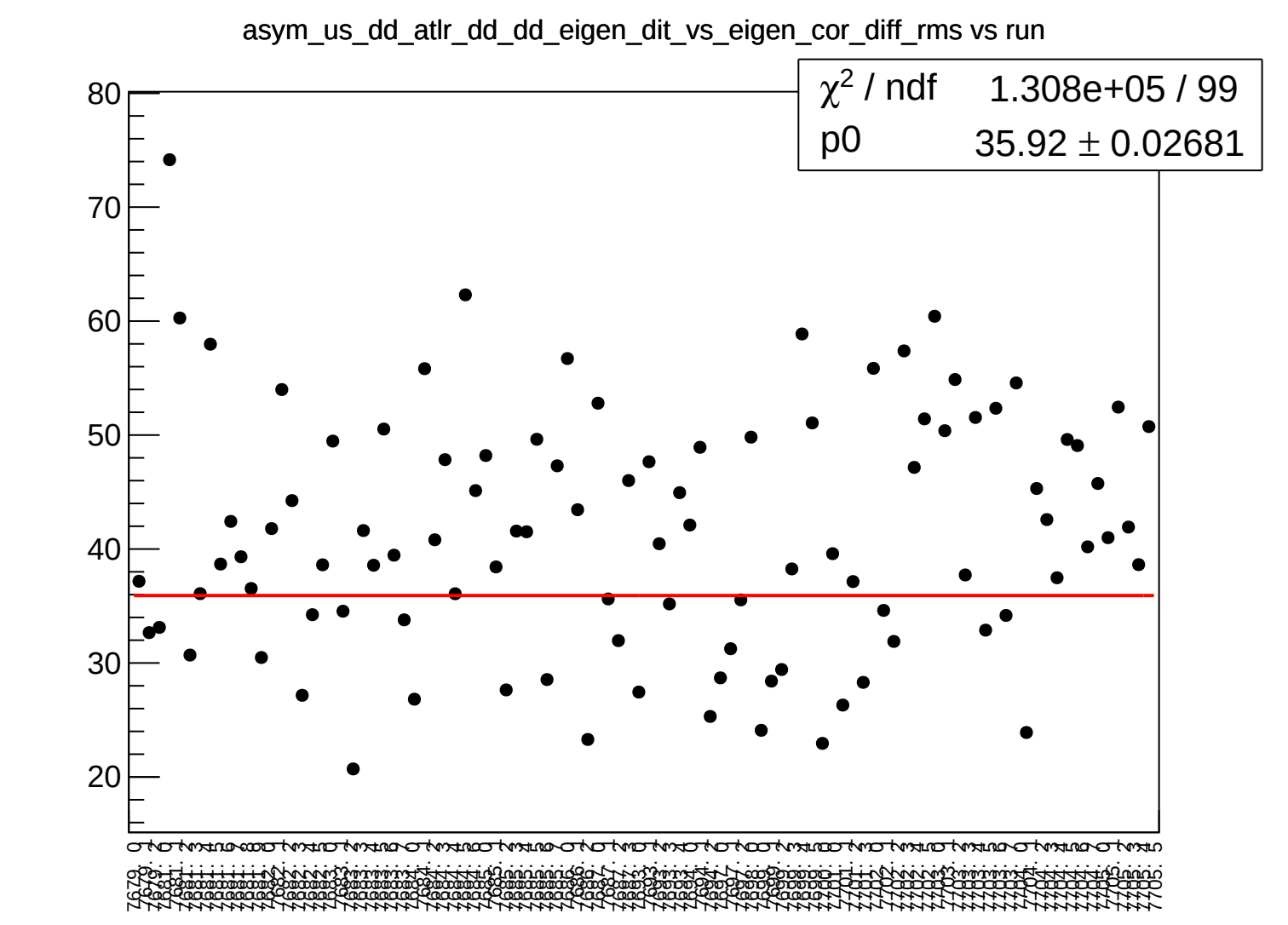

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.77 / 99
p0 −0.0007028 ± 0.03792
pull
Entries 100
Mean −228.1
Std Dev 0

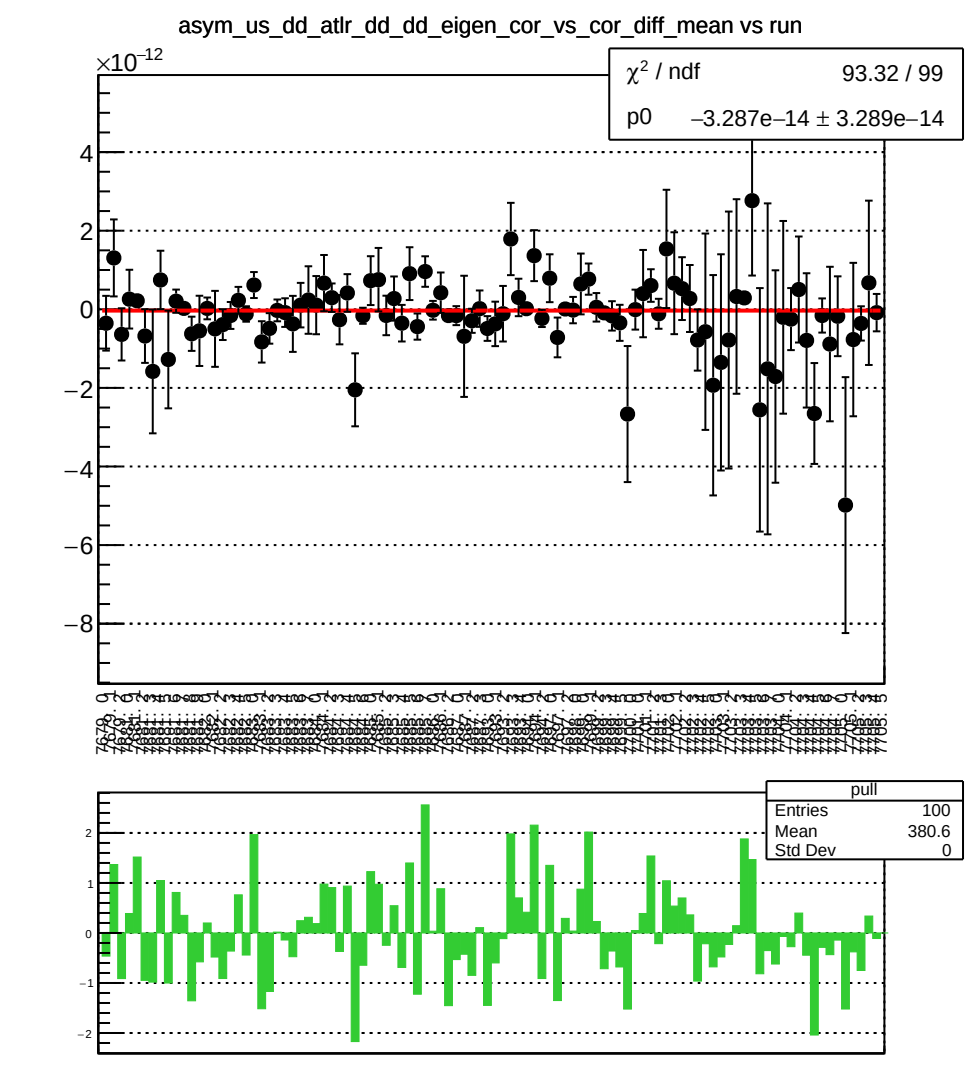

pull1D
Entries 100
Mean 0.004462
Std Dev 0.9988

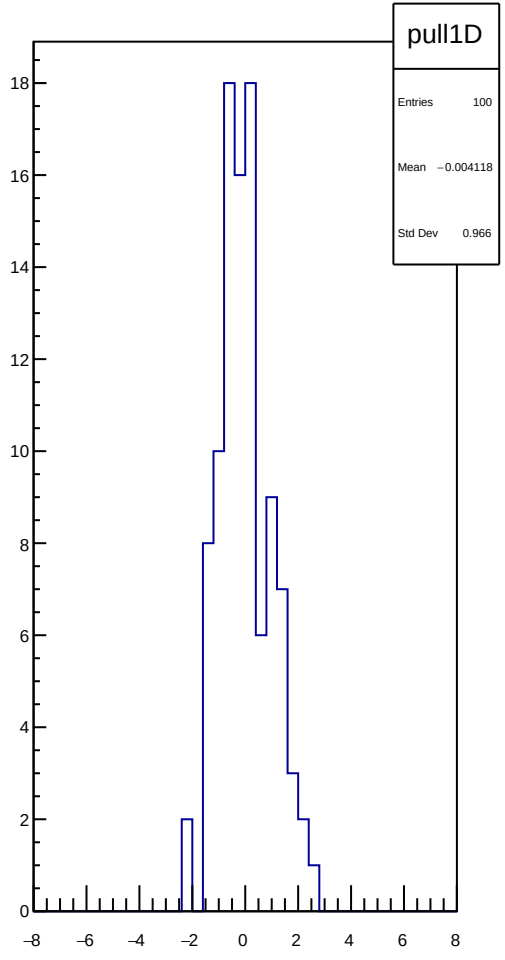

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.308e+05 / 99
p0 35.92 ± 0.02681
80
70
60
50
40
30
20

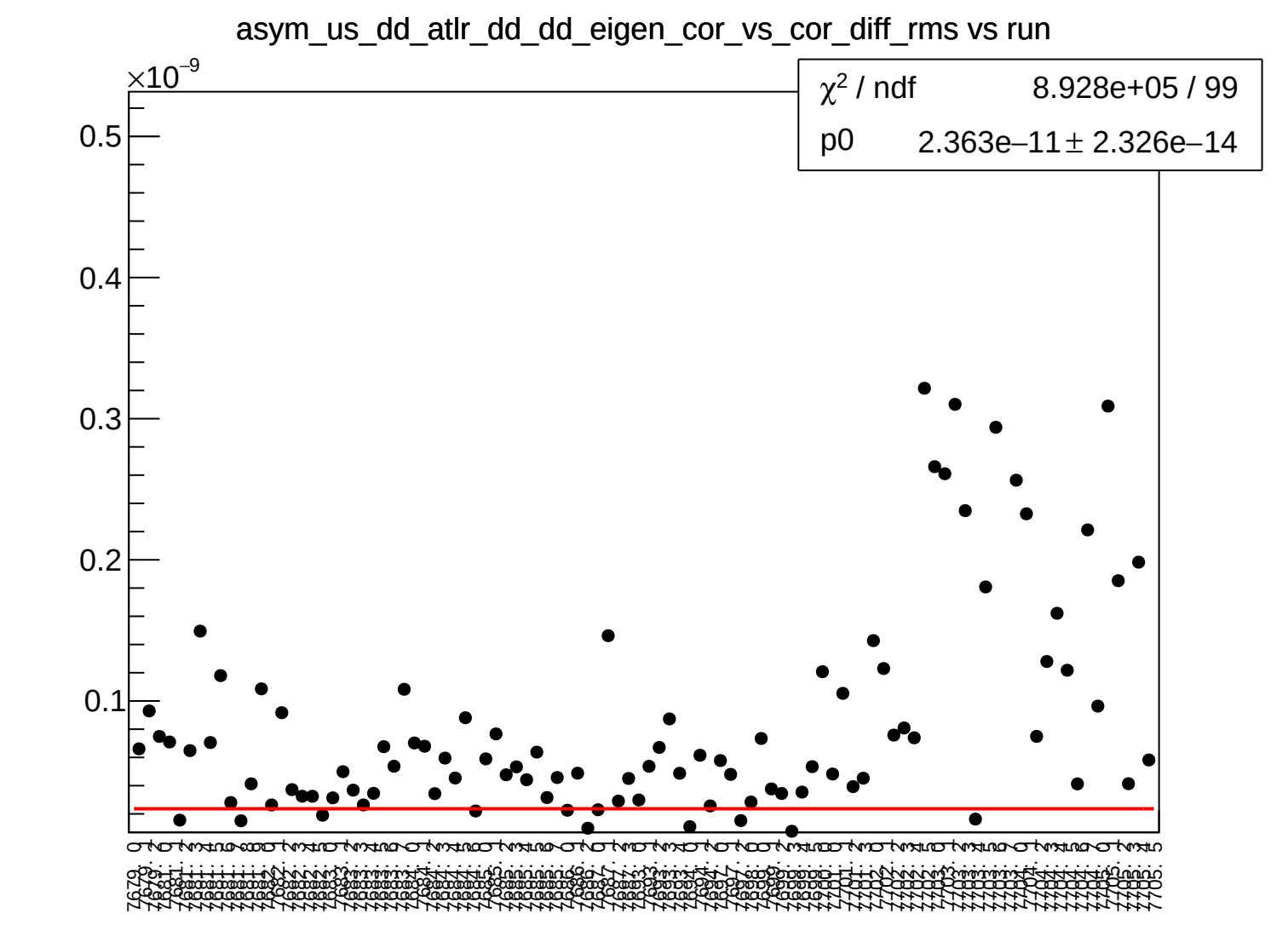

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.77 / 99
p0 −0.0007028 ± 0.03792
pull
Entries 100
Mean −228.1
Std Dev 0

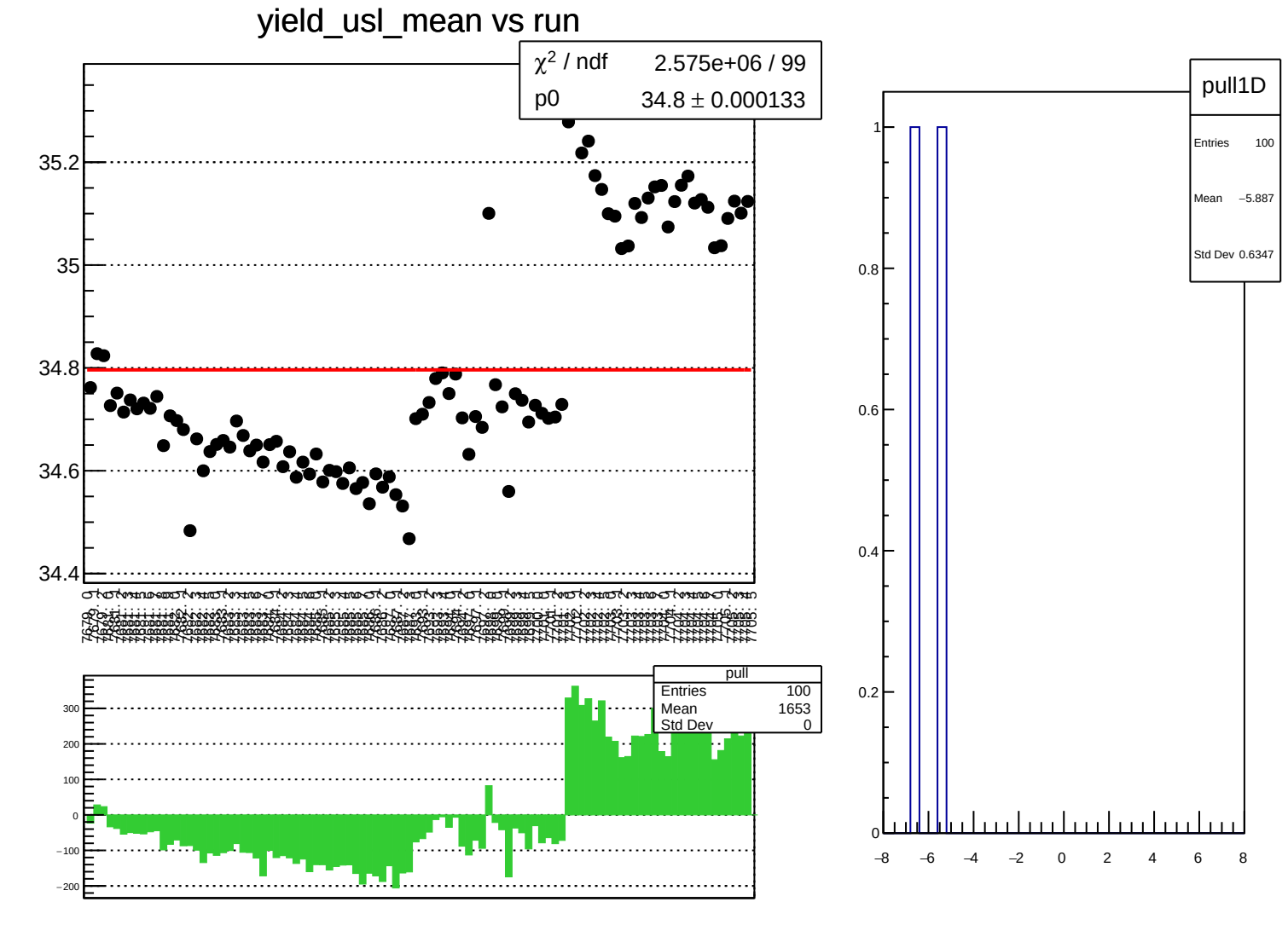

pull1D
Entries 100
Mean 0.004462
Std Dev 0.9988

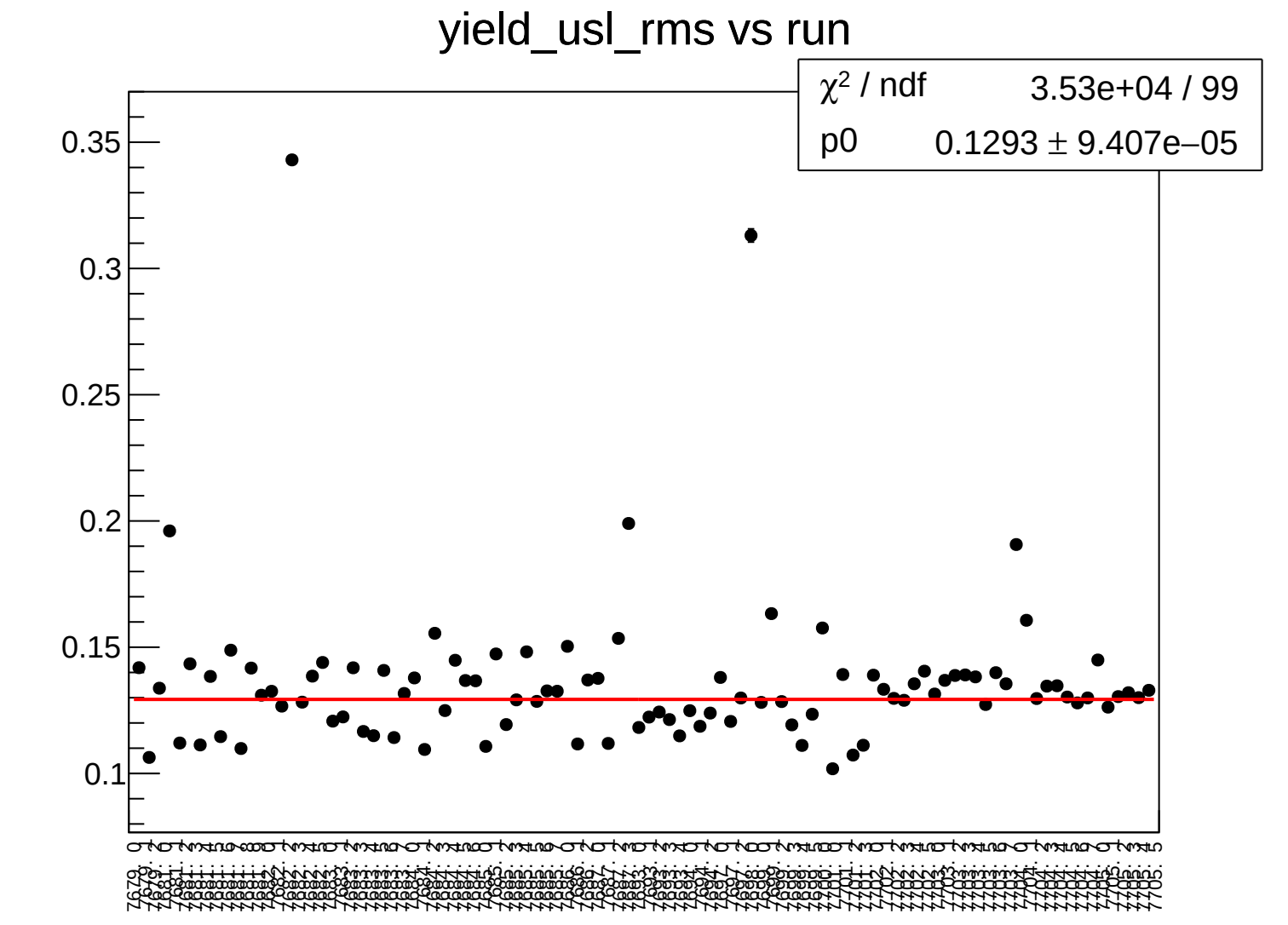

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.308e+05 / 99
p0 35.92 ± 0.02681
80
70
60
50
40
30
20

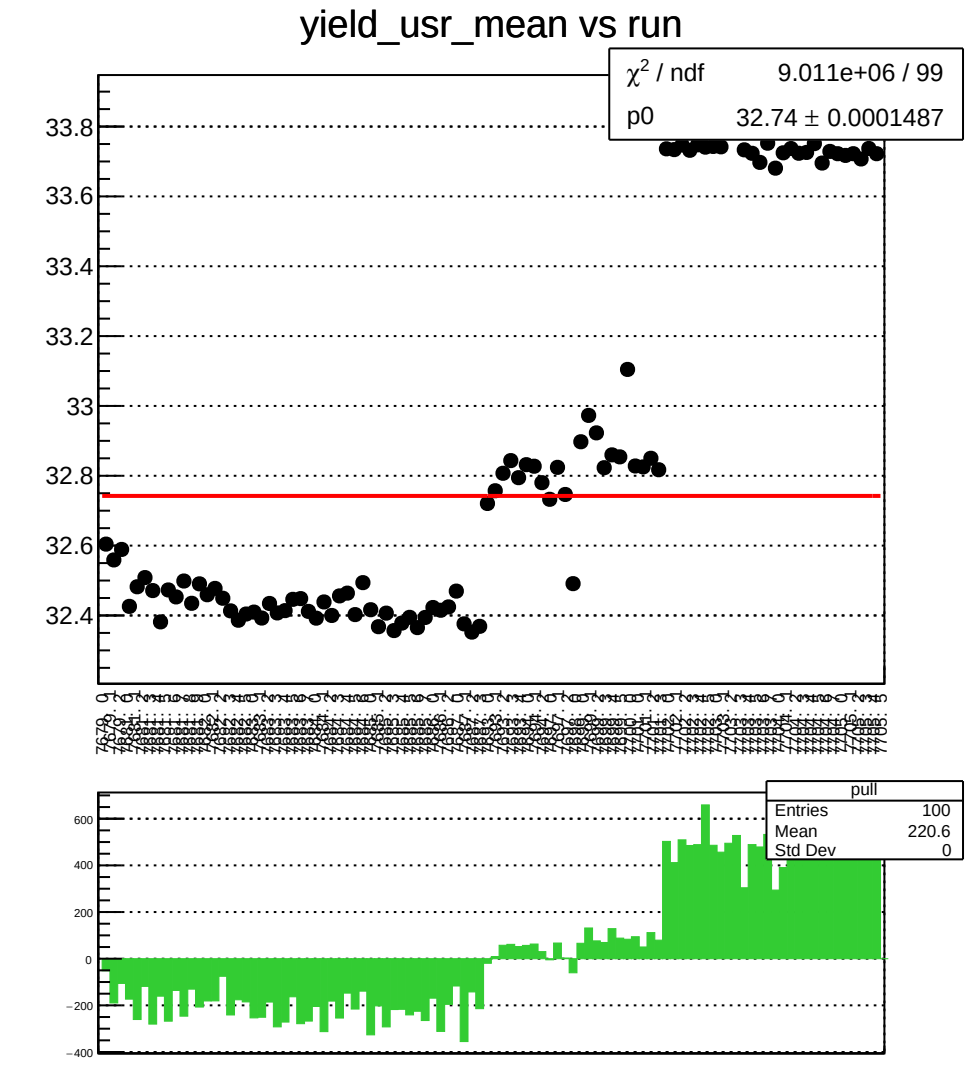

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.32 / 99
p0 −3.287e−14 ± 3.289e−14
pull
Entries 100
Mean 380.6
Std Dev 0

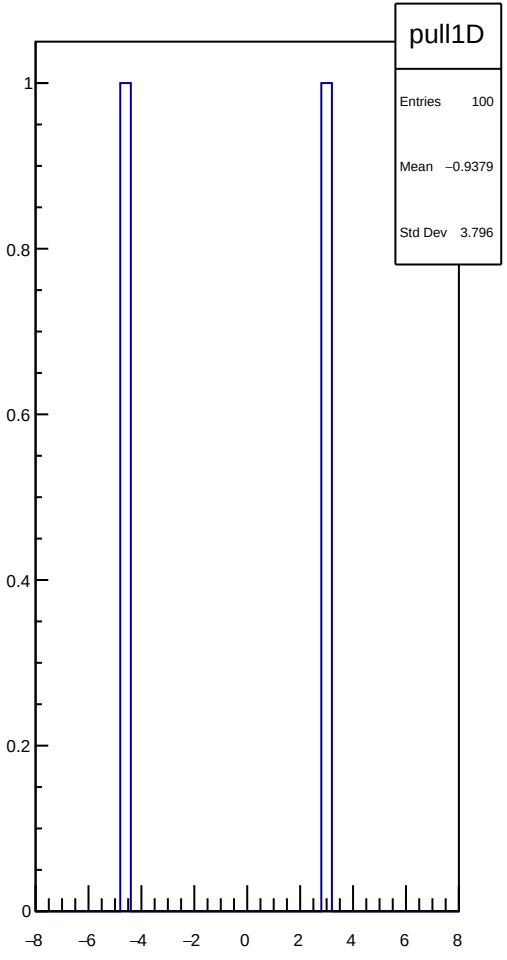

pull1D
Entries 100
Mean −0.004118
Std Dev 0.966

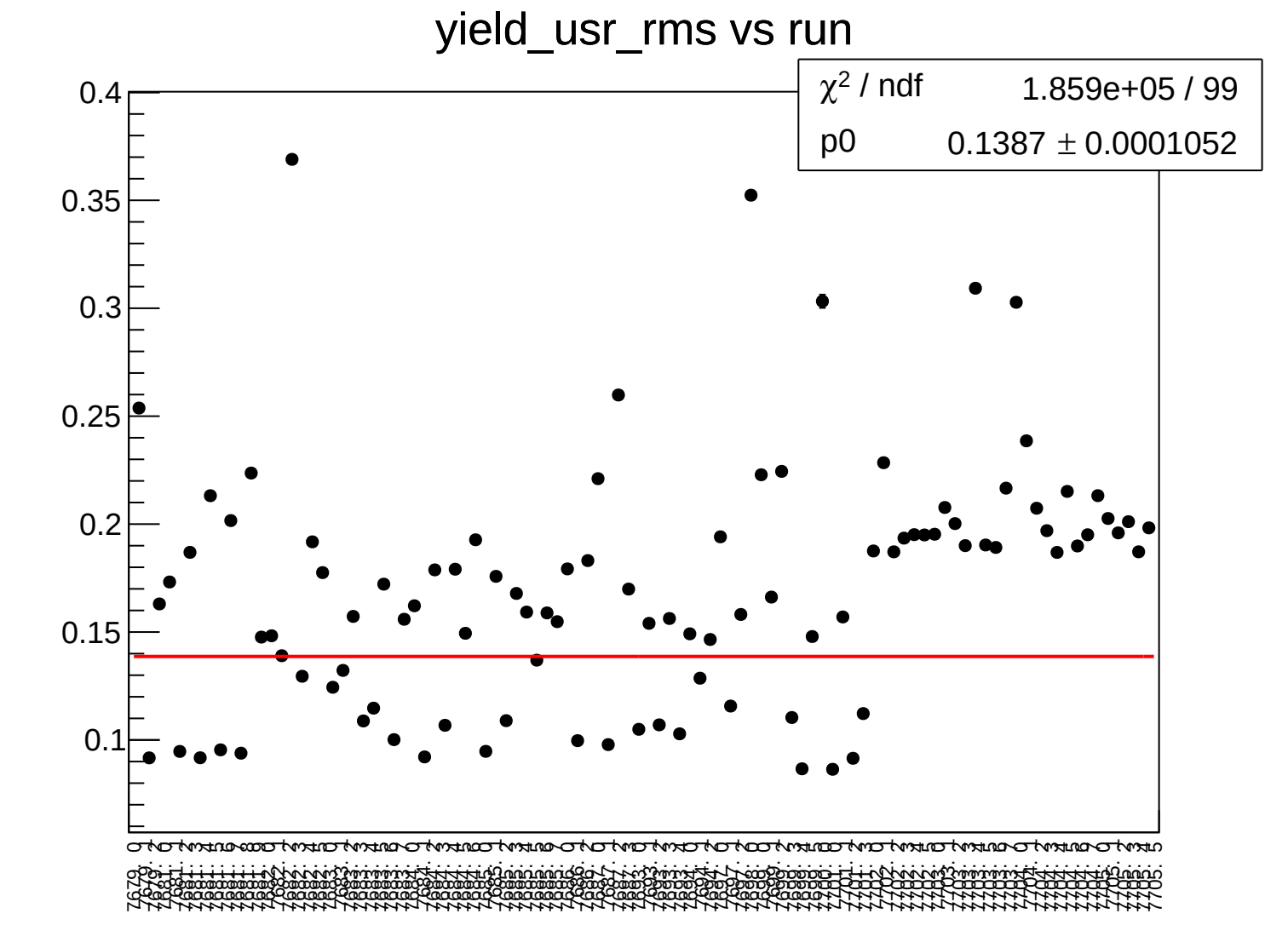

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.5
0.4
0.3
0.2
0.1
χ² / ndf 8.928e+05 / 99
p0 2.363e−11 ± 2.326e−14

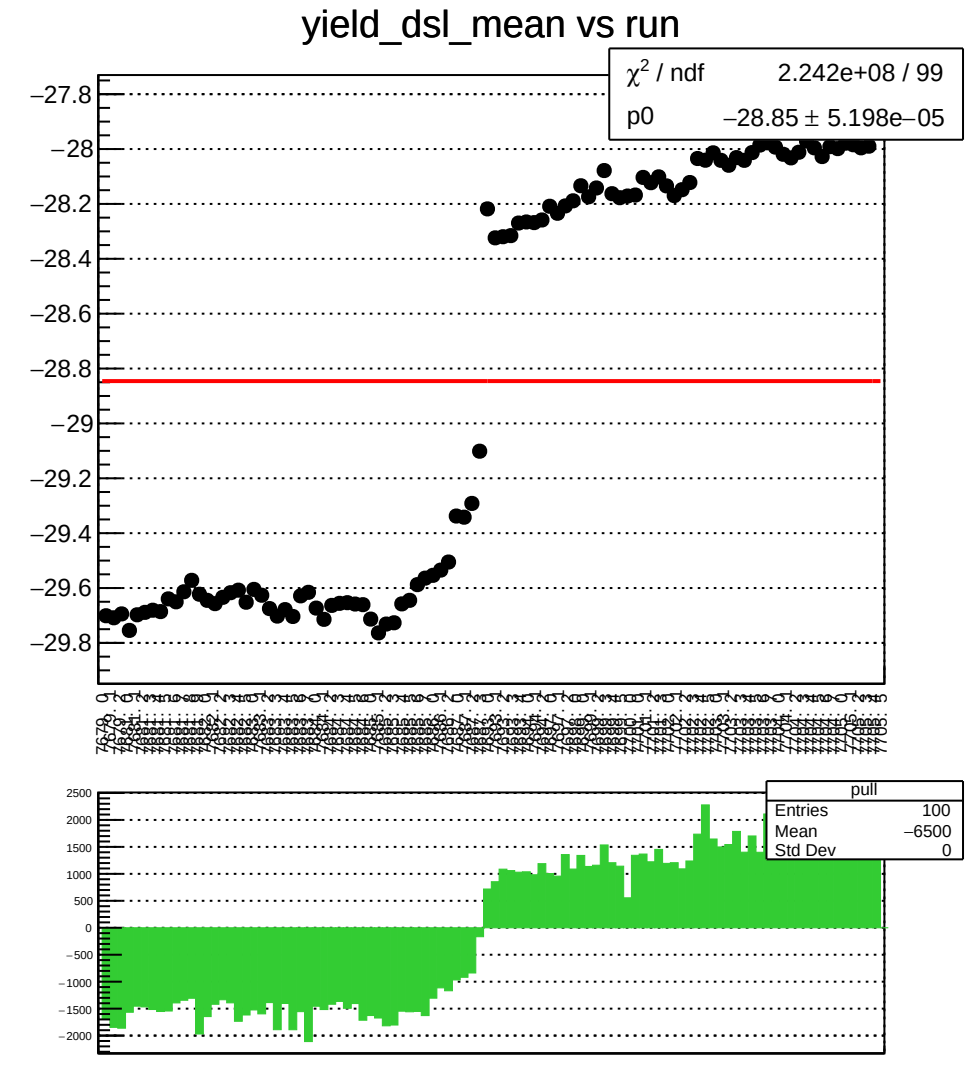

yield_usl_mean vs run
χ² / ndf 2.575e+06 / 99
p0 34.8 ± 0.000133
35.2
35
34.8
34.6
34.4
pull
Entries 100
Mean 1653
Std Dev 0
300
200
100
0
−100
−200
pull1D
Entries 100
Mean −5.887
Std Dev 0.6347
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

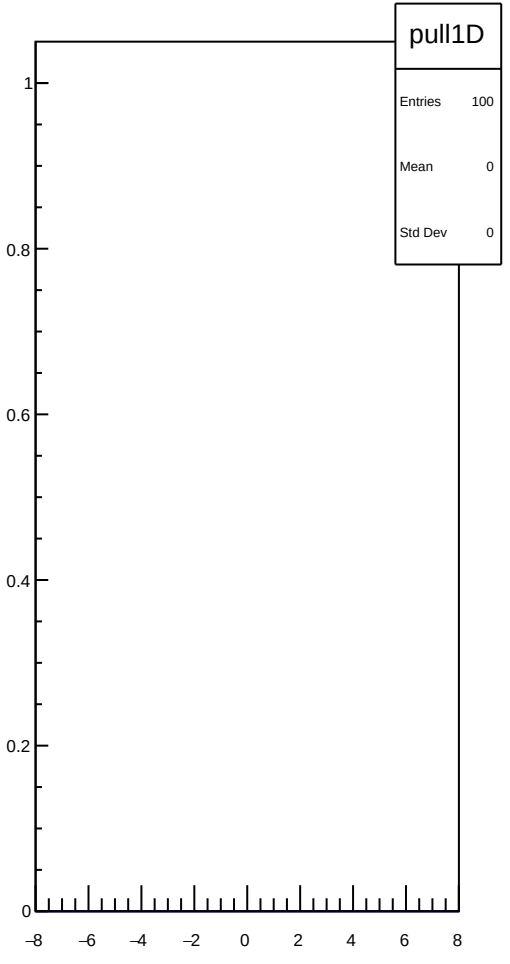

yield_usl_rms vs run
χ² / ndf 3.53e+04 / 99
p0 0.1293 ± 9.407e−05
0.35
0.3
0.25
0.2
0.15
0.1

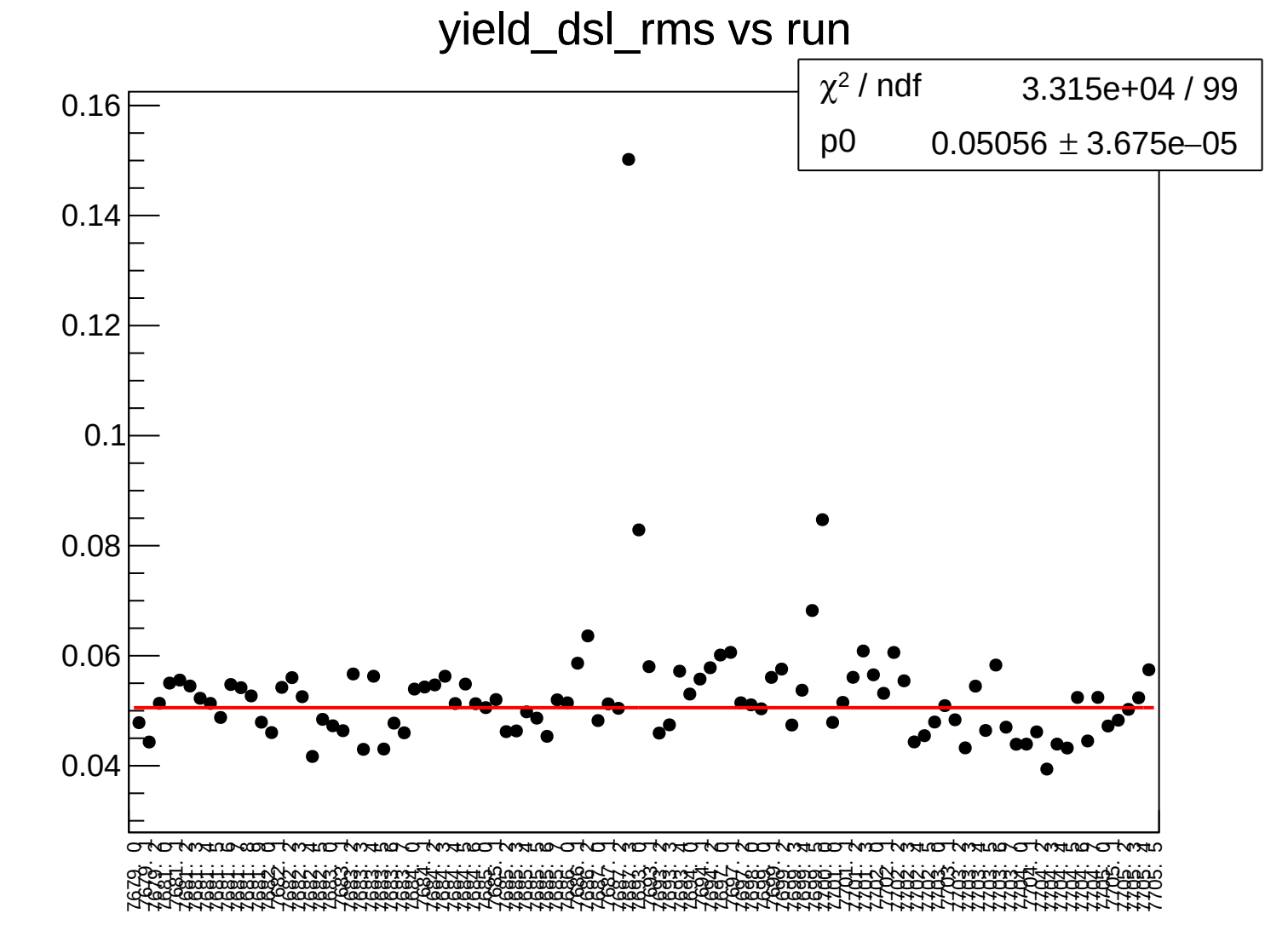

yield_usr_mean vs run
χ² / ndf 9.011e+06 / 99
p0 32.74 ± 0.0001487
33.8
33.6
33.4
33.2
33
32.8
32.6
32.4
pull
Entries 100
Mean 220.6
Std Dev 0
600
400
200
0
−200
−400

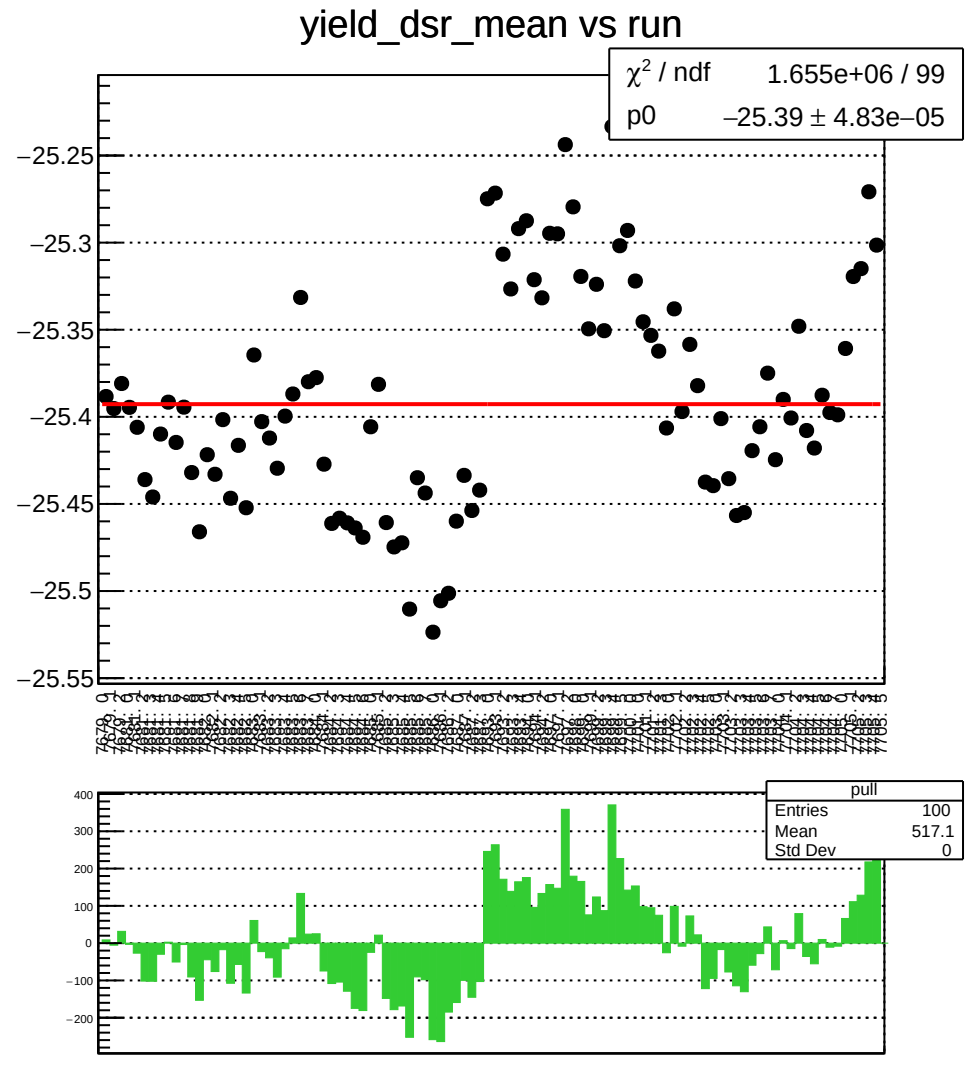

pull1D
Entries 100
Mean −0.9379
Std Dev 3.796
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

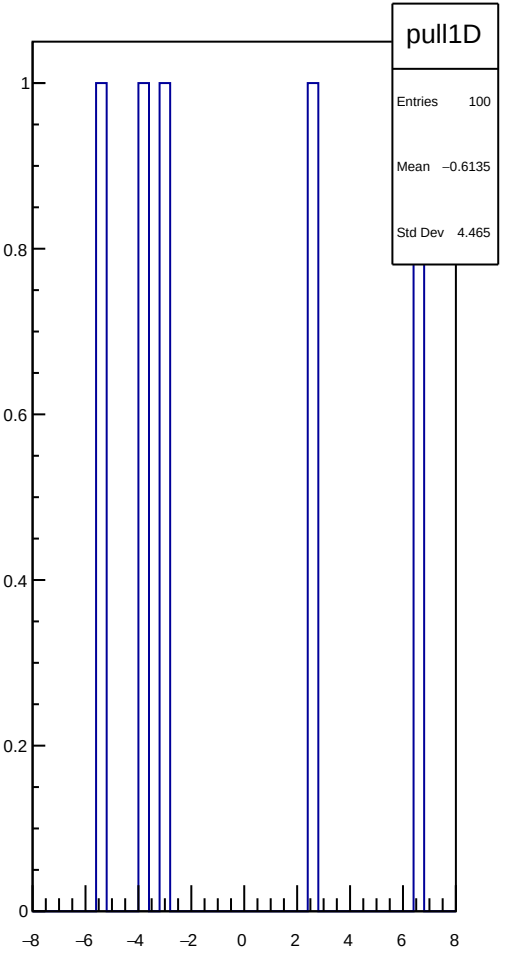

yield_usr_rms vs run
χ² / ndf 1.859e+05 / 99
p0 0.1387 ± 0.0001052
0.4
0.35
0.3
0.25
0.2
0.15
0.1

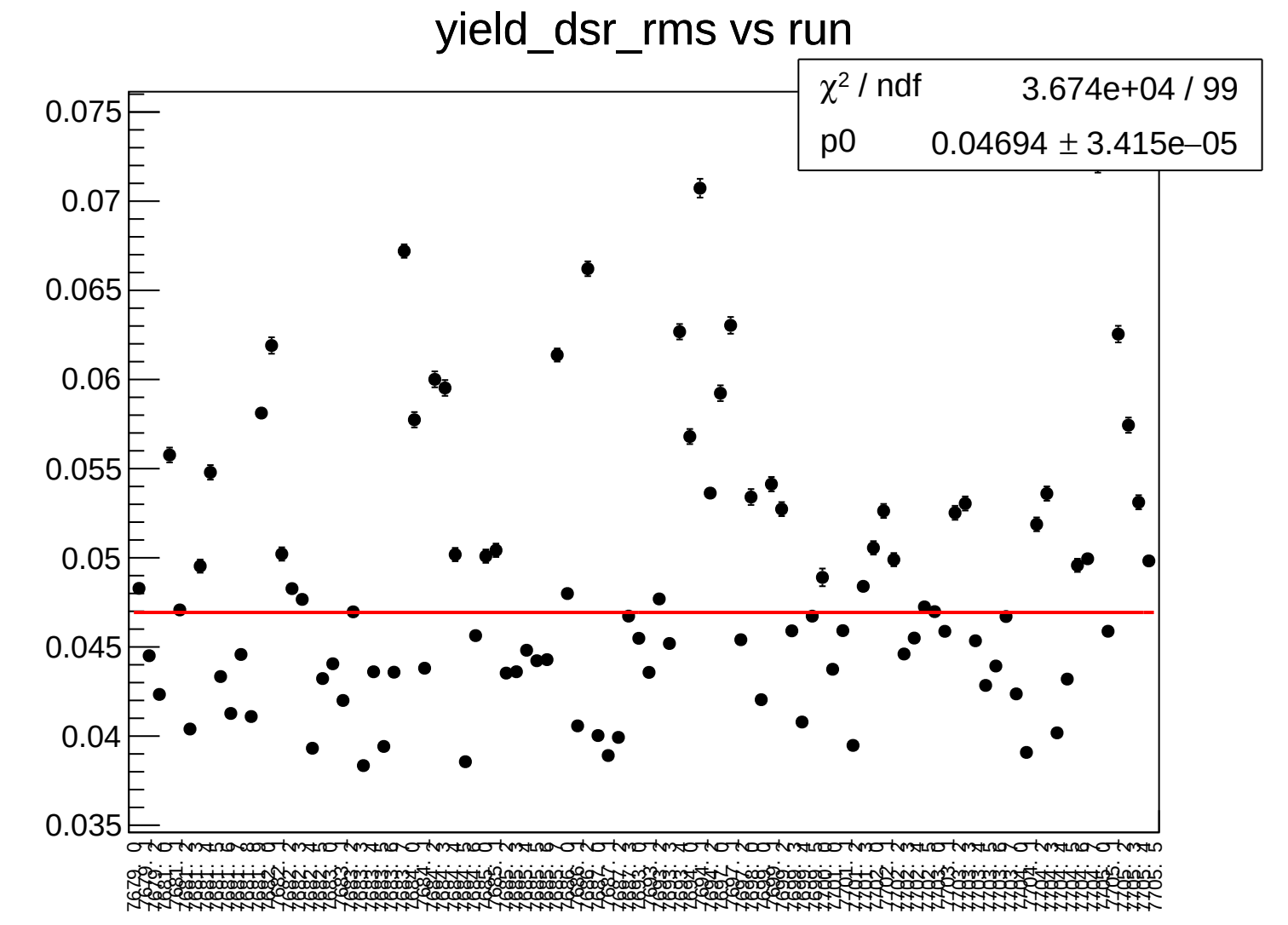

yield_dsl_mean vs run
χ² / ndf 2.242e+08 / 99
p0 −28.85 ± 5.198e−05
−27.8
−28
−28.2
−28.4
−28.6
−28.8
−29
−29.2
−29.4
−29.6
−29.8
pull
Entries 100
Mean −6500
Std Dev 0
2500
2000
1500
1000
500
0
−500
−1000
−1500
−2000

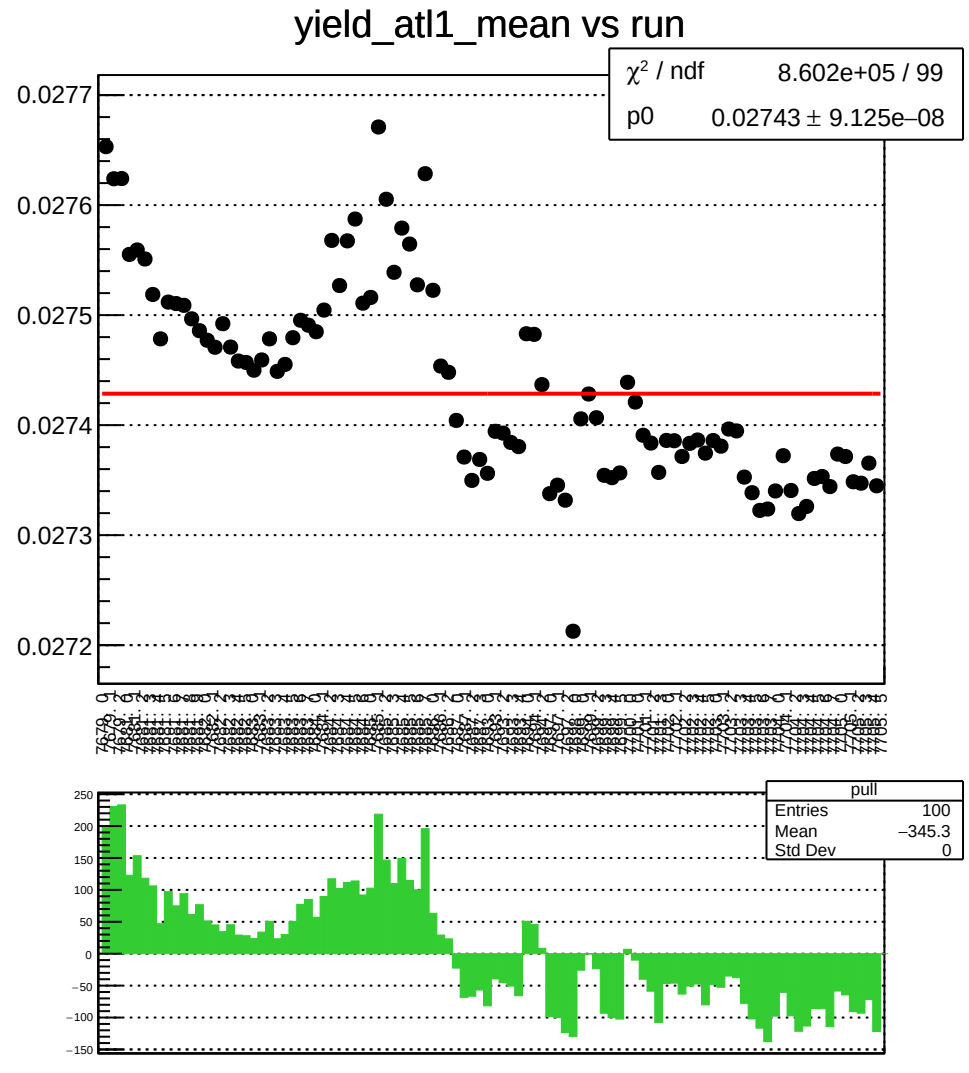

pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

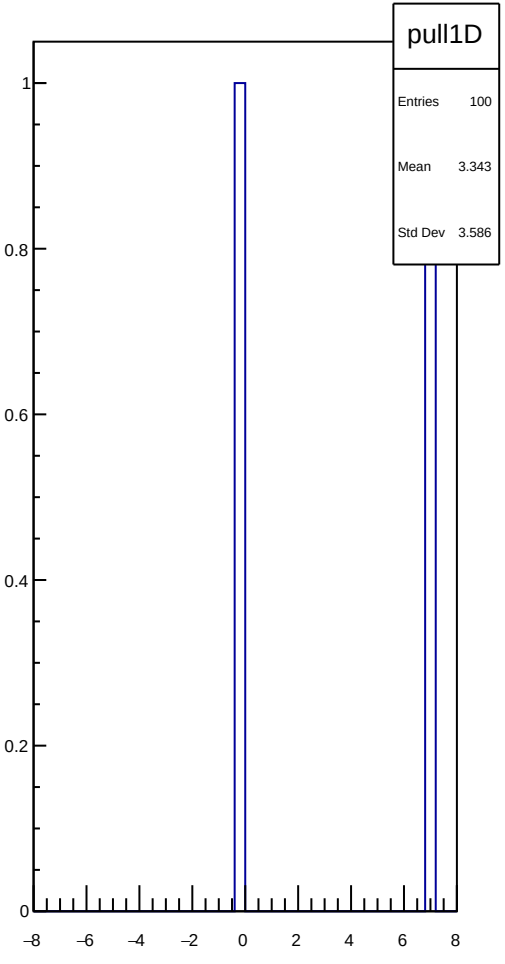

yield_dsl_rms vs run
χ² / ndf 3.315e+04 / 99
p0 0.05056 ± 3.675e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04

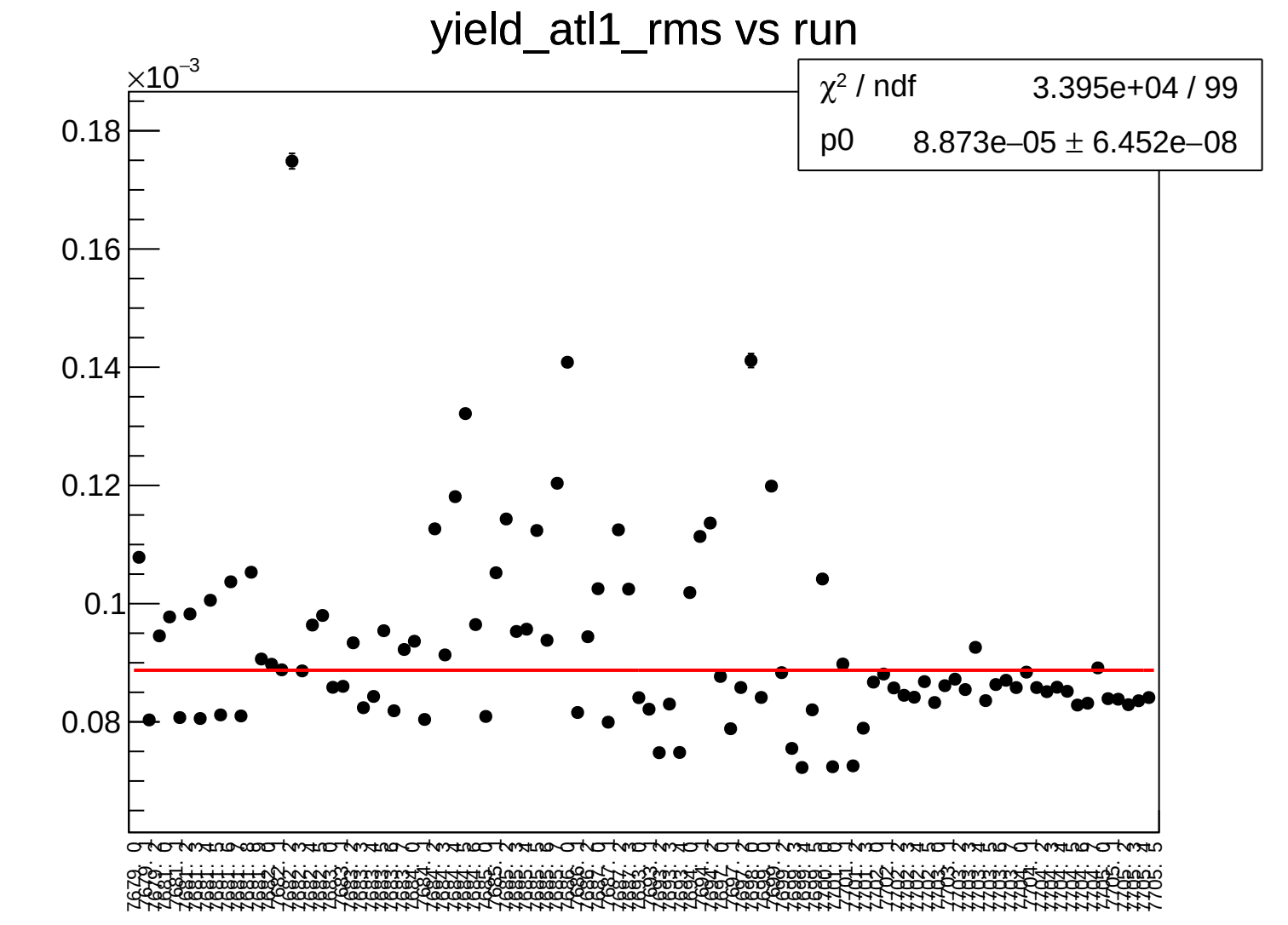

yield_dsr_mean vs run
χ² / ndf 1.655e+06 / 99
p0 −25.39 ± 4.83e−05
−25.25
−25.3
−25.35
−25.4
−25.45
−25.5
−25.55
pull
Entries 100
Mean 517.1
Std Dev 0
400
300
200
100
0
−100
−200

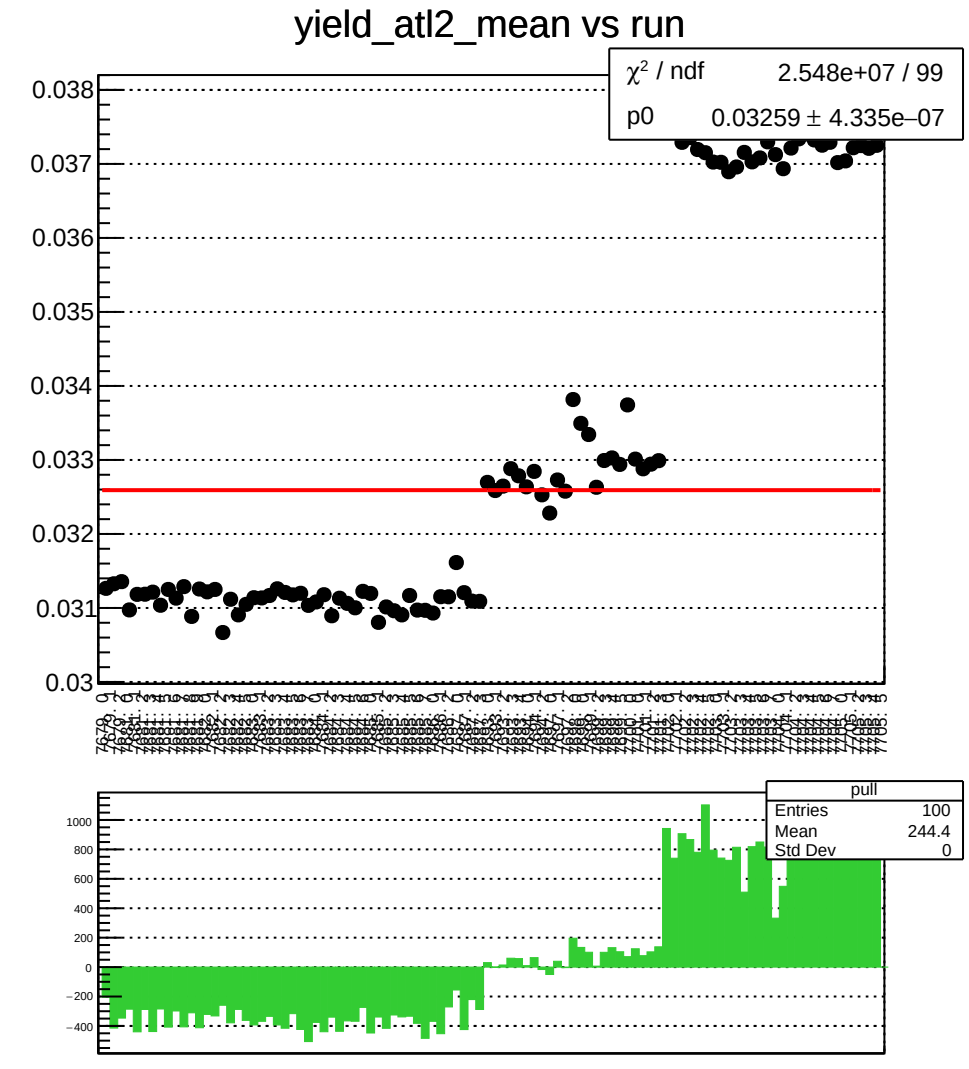

pull1D
Entries 100
Mean −0.6135
Std Dev 4.465
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

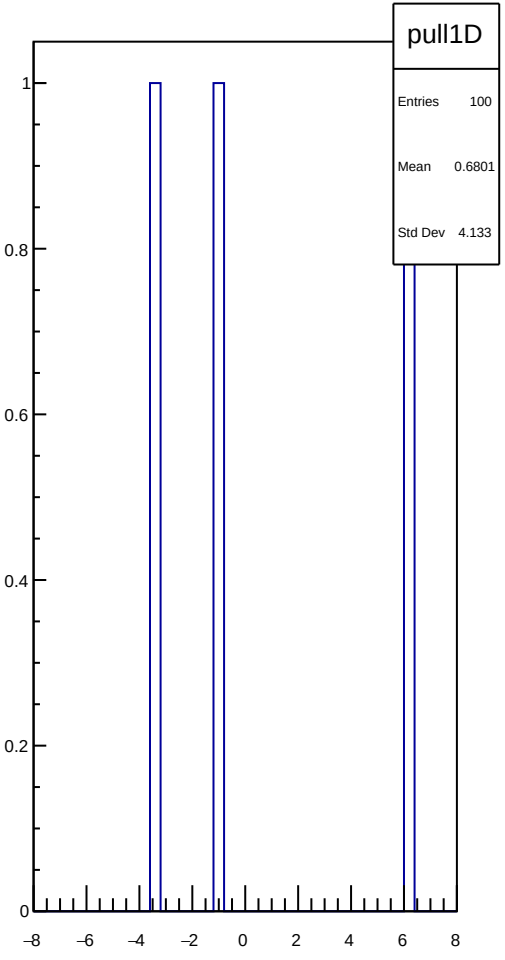

yield_dsr_rms vs run
χ² / ndf 3.674e+04 / 99
p0 0.04694 ± 3.415e−05
0.075
0.07
0.065
0.06
0.055
0.05
0.045
0.04
0.035

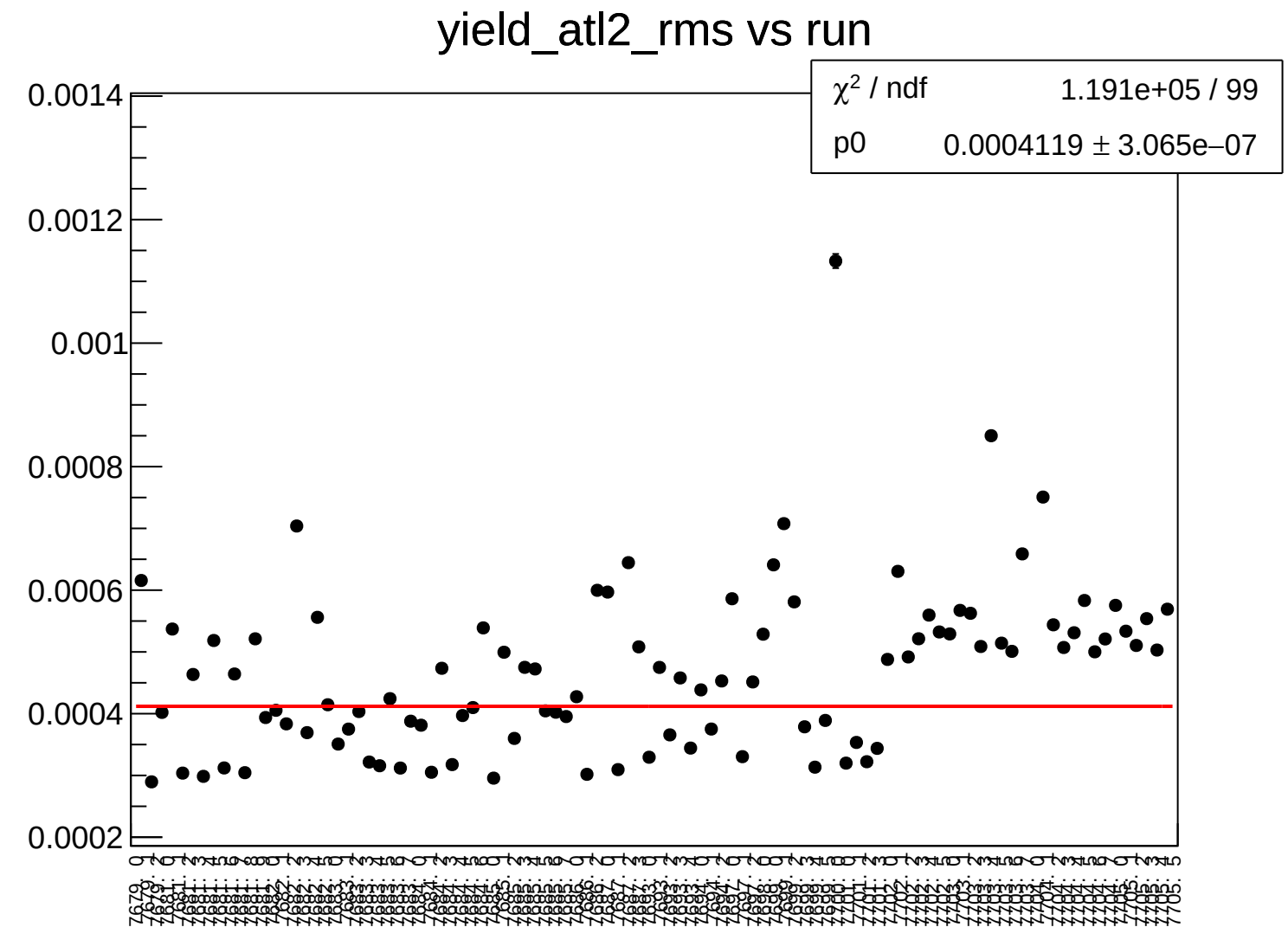

yield_atl1_mean vs run
χ² / ndf 8.602e+05 / 99
p0 0.02743 ± 9.125e−08
0.0277
0.0276
0.0275
0.0274
0.0273
0.0272
pull
Entries 100
Mean −345.3
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

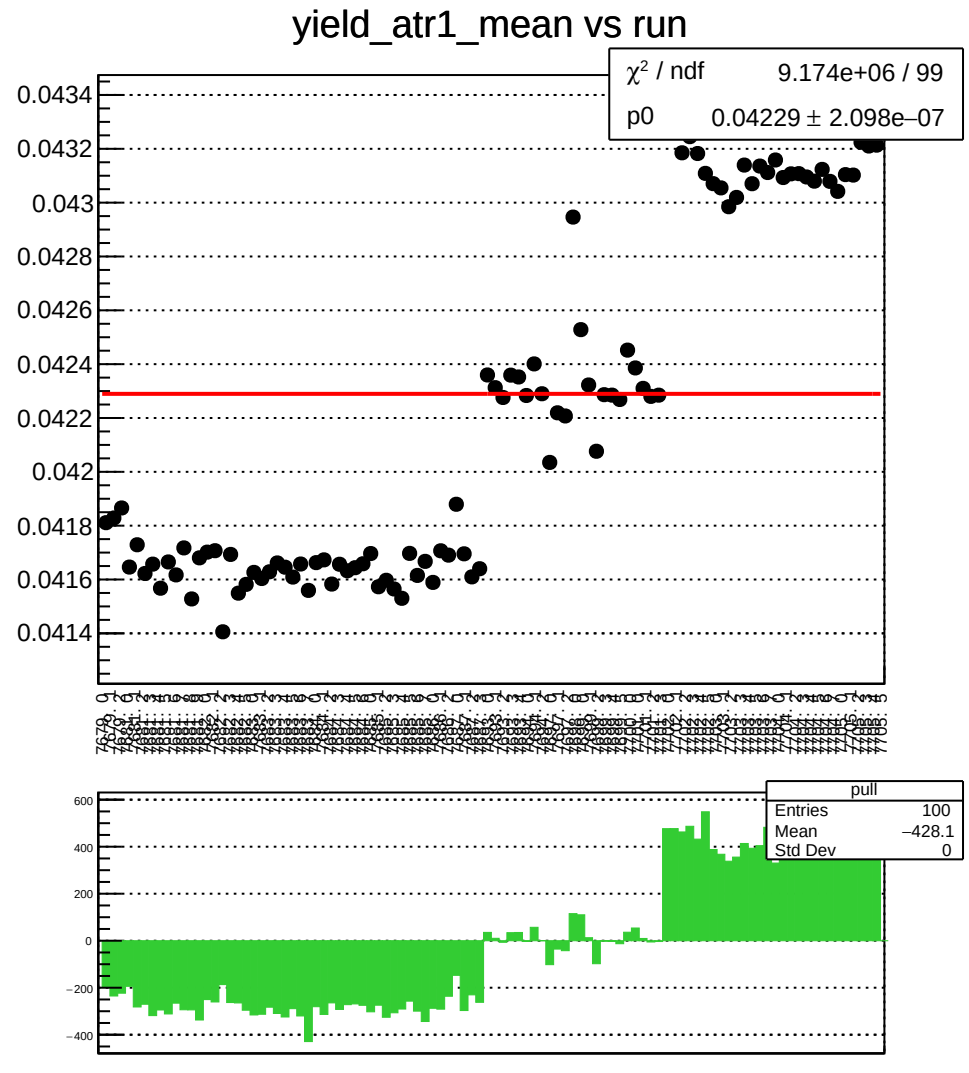

pull1D
Entries 100
Mean 3.343
Std Dev 3.586
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

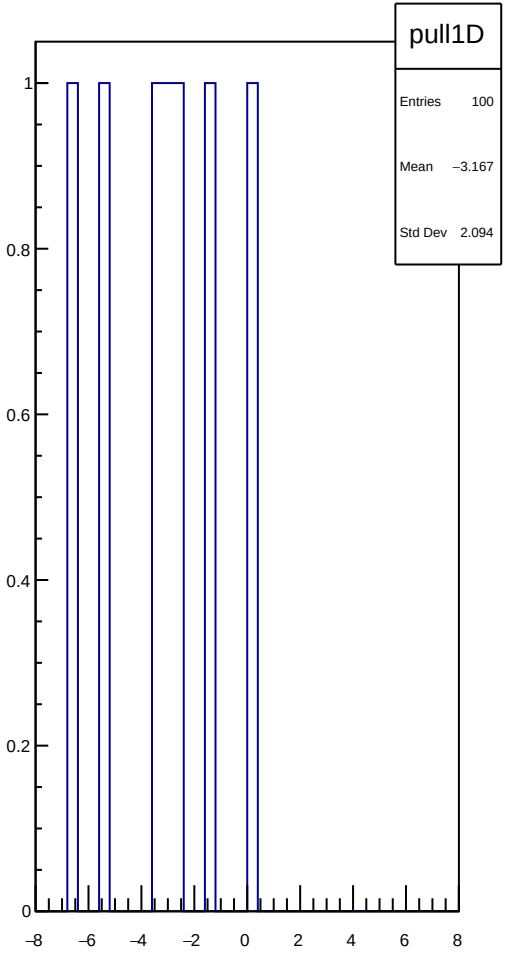

yield_atl1_rms vs run
×10⁻³
0.18
0.16
0.14
0.12
0.1
0.08
χ² / ndf 3.395e+04 / 99
p0 8.873e−05 ± 6.452e−08

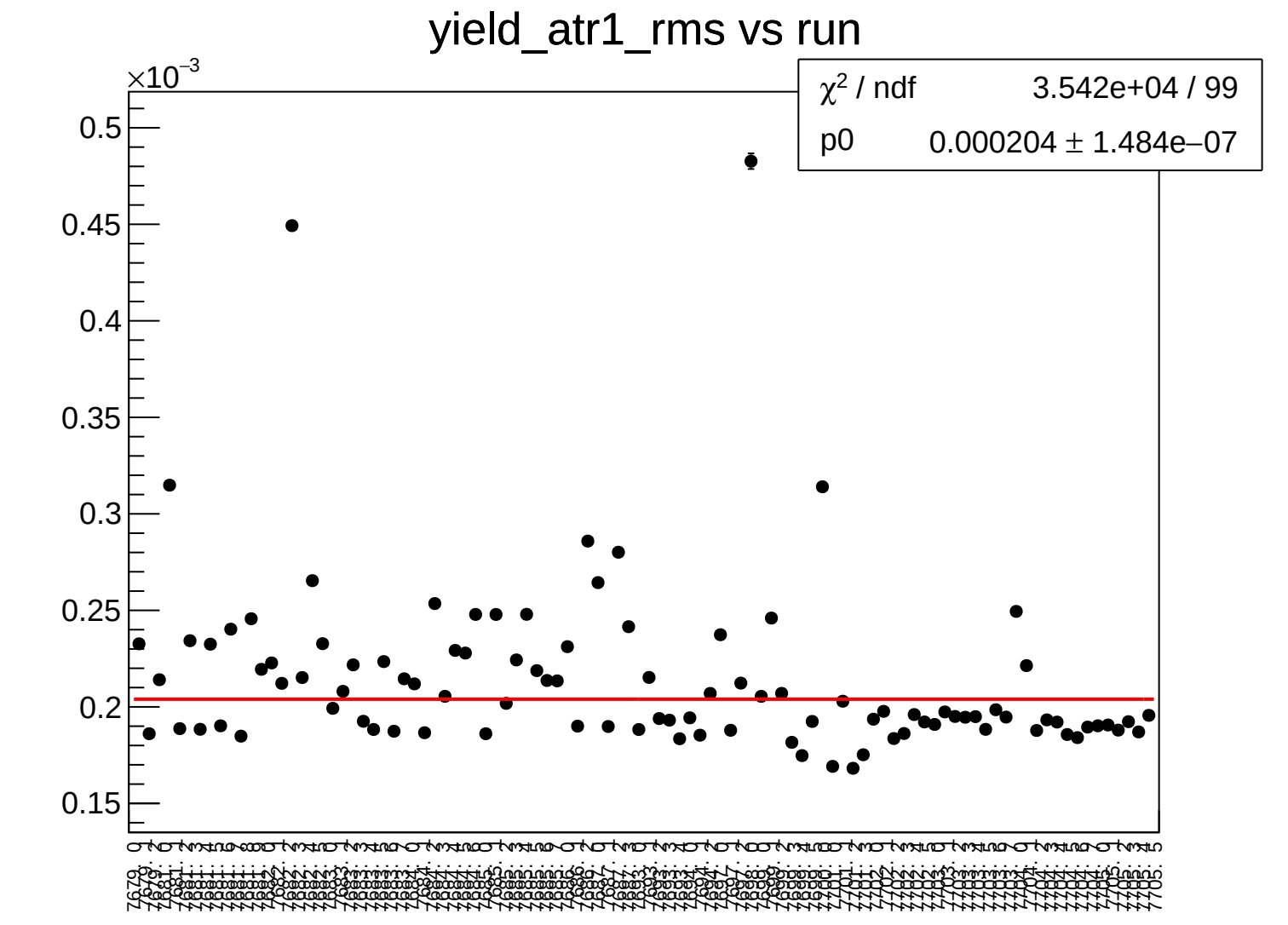

yield_atl2_mean vs run
χ² / ndf 2.548e+07 / 99
p0 0.03259 ± 4.335e−07
0.038
0.037
0.036
0.035
0.034
0.033
0.032
0.031
0.03
pull
Entries 100
Mean 244.4
Std Dev 0
1000
800
600
400
200
0
−200
−400

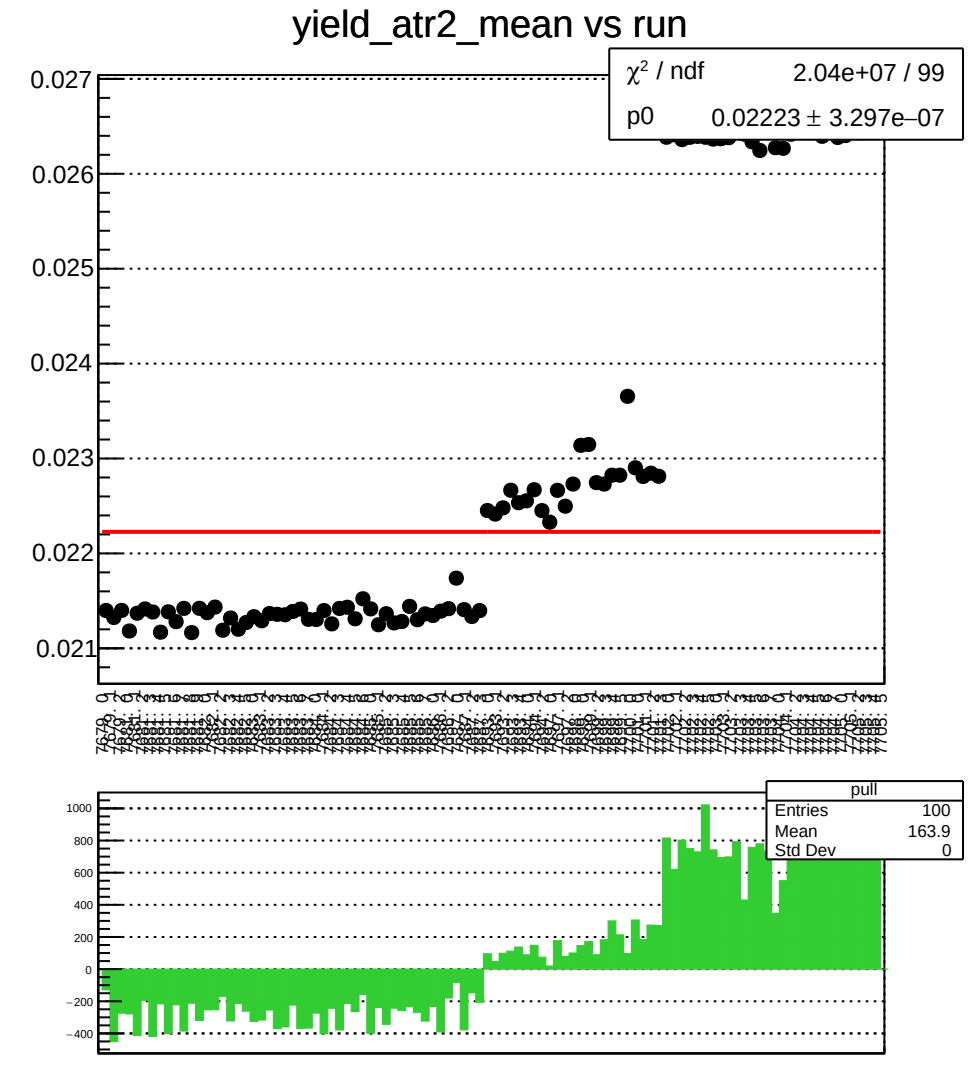

pull1D
Entries 100
Mean 0.6801
Std Dev 4.133
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

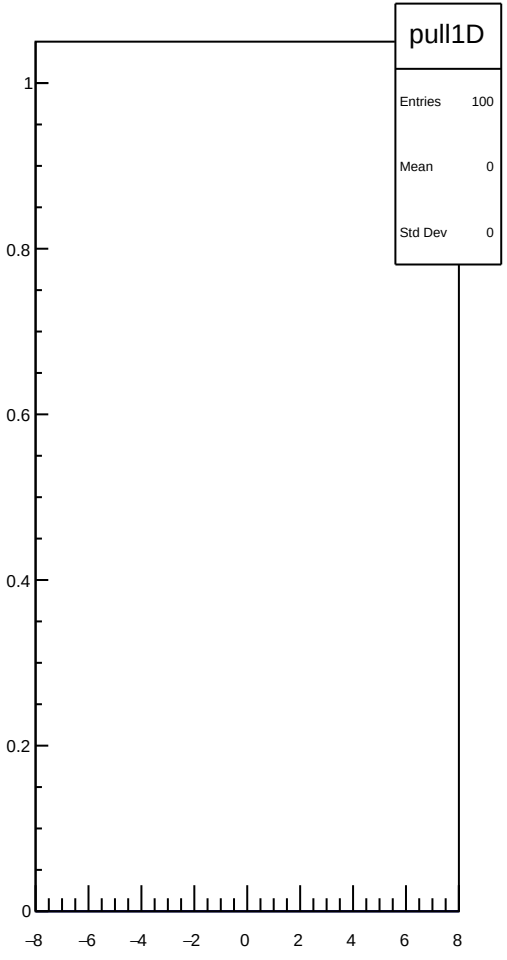

yield_atl2_rms vs run
χ² / ndf 1.191e+05 / 99
p0 0.0004119 ± 3.065e−07
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

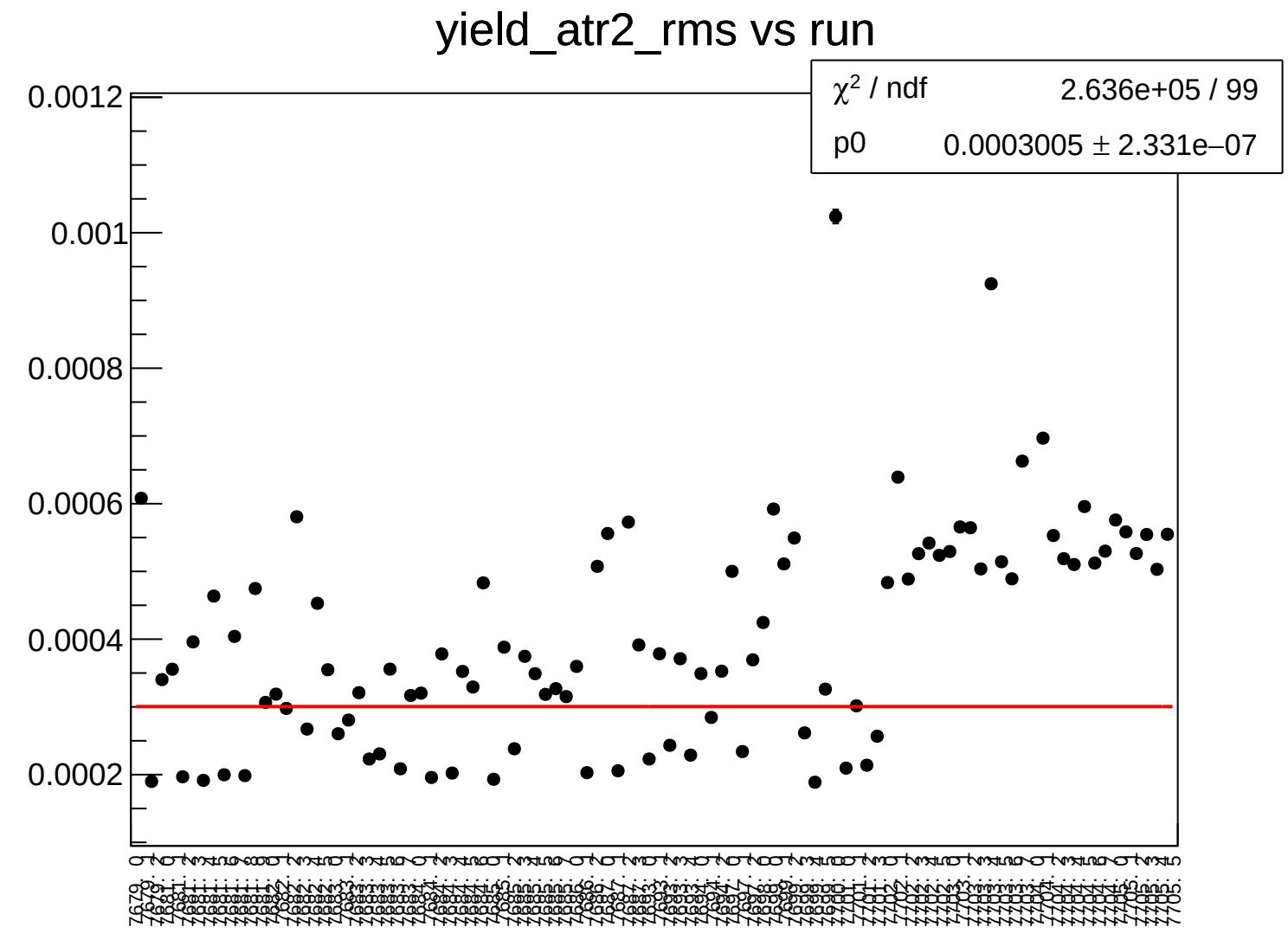

yield_atr1_mean vs run
χ² / ndf 9.174e+06 / 99
p0 0.04229 ± 2.098e−07
0.0434
0.0432
0.043
0.0428
0.0426
0.0424
0.0422
0.042
0.0418
0.0416
0.0414
pull
Entries 100
Mean −428.1
Std Dev 0
600
400
200
0
−200
−400

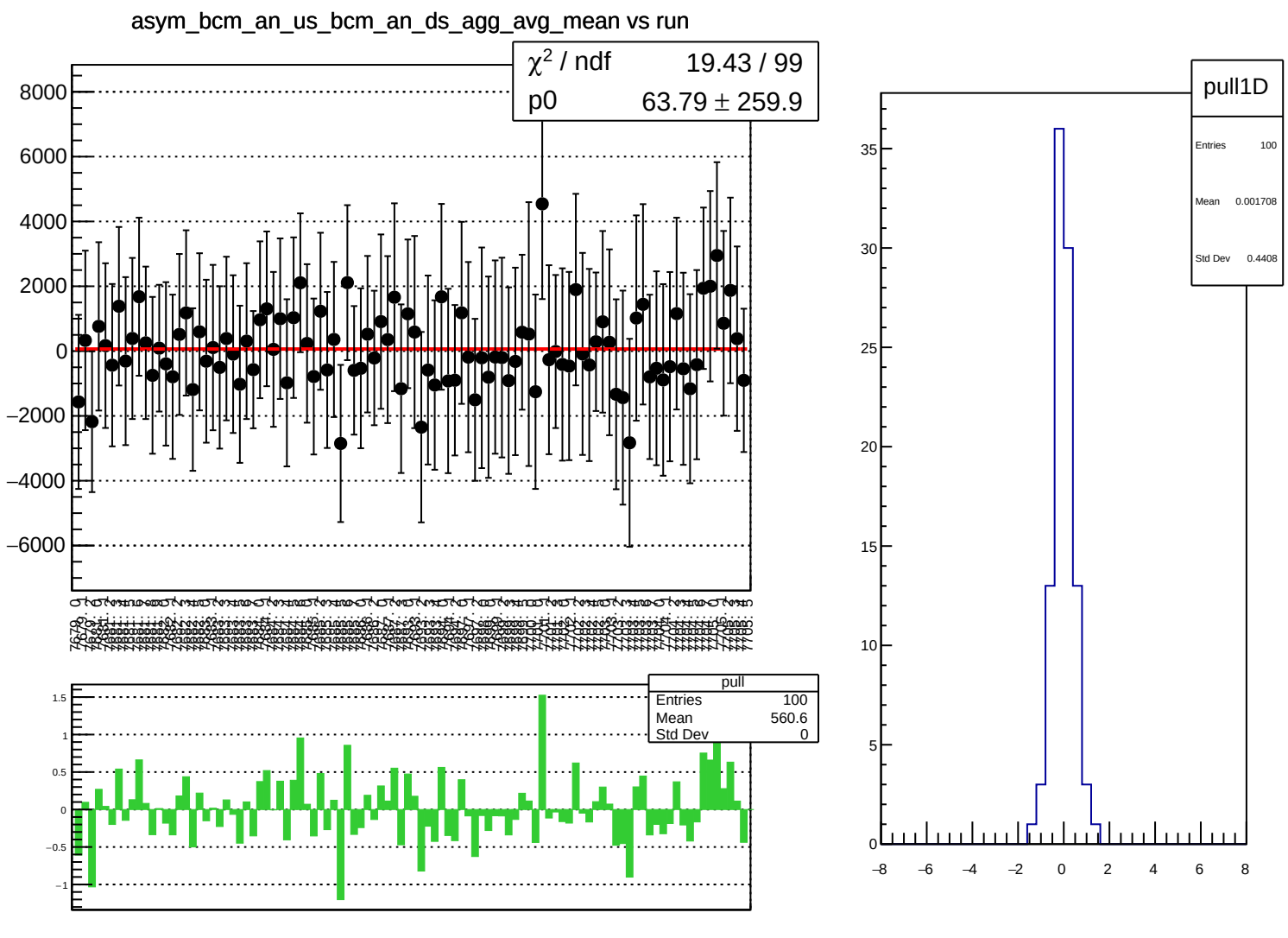

pull1D
Entries 100
Mean −3.167
Std Dev 2.094
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

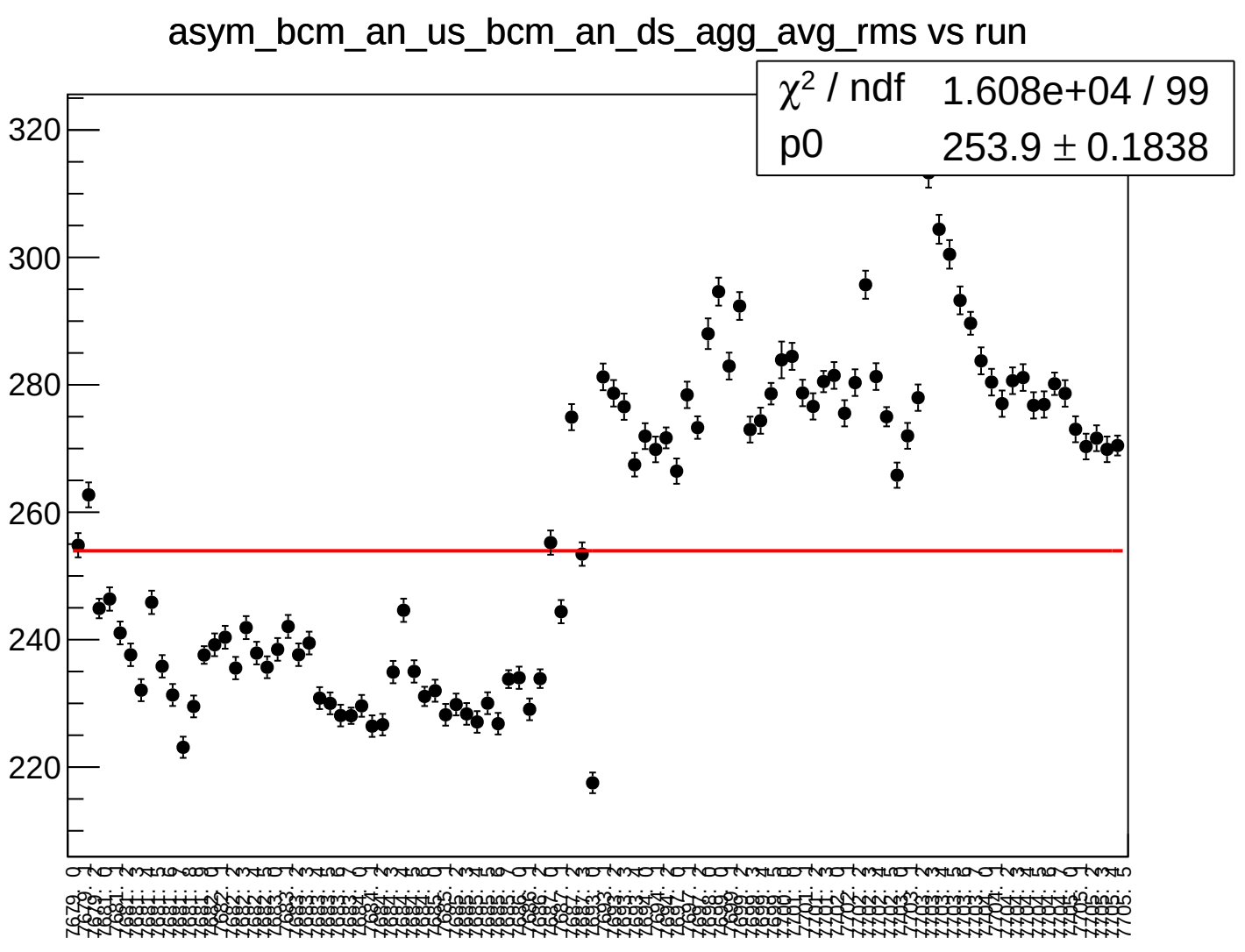

yield_atr1_rms vs run
×10⁻³
χ² / ndf 3.542e+04 / 99
p0 0.000204 ± 1.484e−07
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15

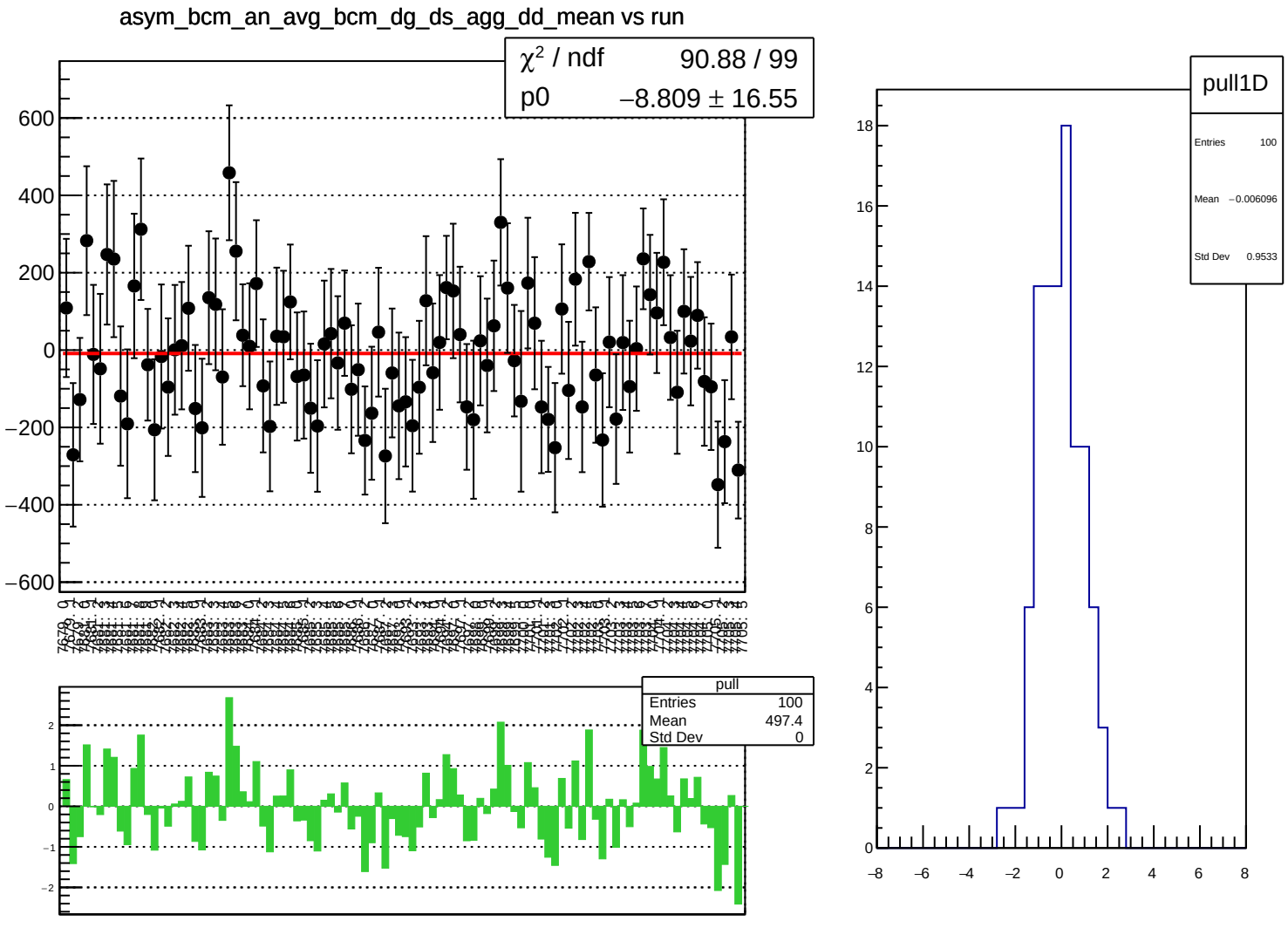

yield_atr2_mean vs run
χ² / ndf 2.04e+07 / 99
p0 0.02223 ± 3.297e−07
0.027
0.026
0.025
0.024
0.023
0.022
0.021
pull
Entries 100
Mean 163.9
Std Dev 0
1000
800
600
400
200
0
−200
−400

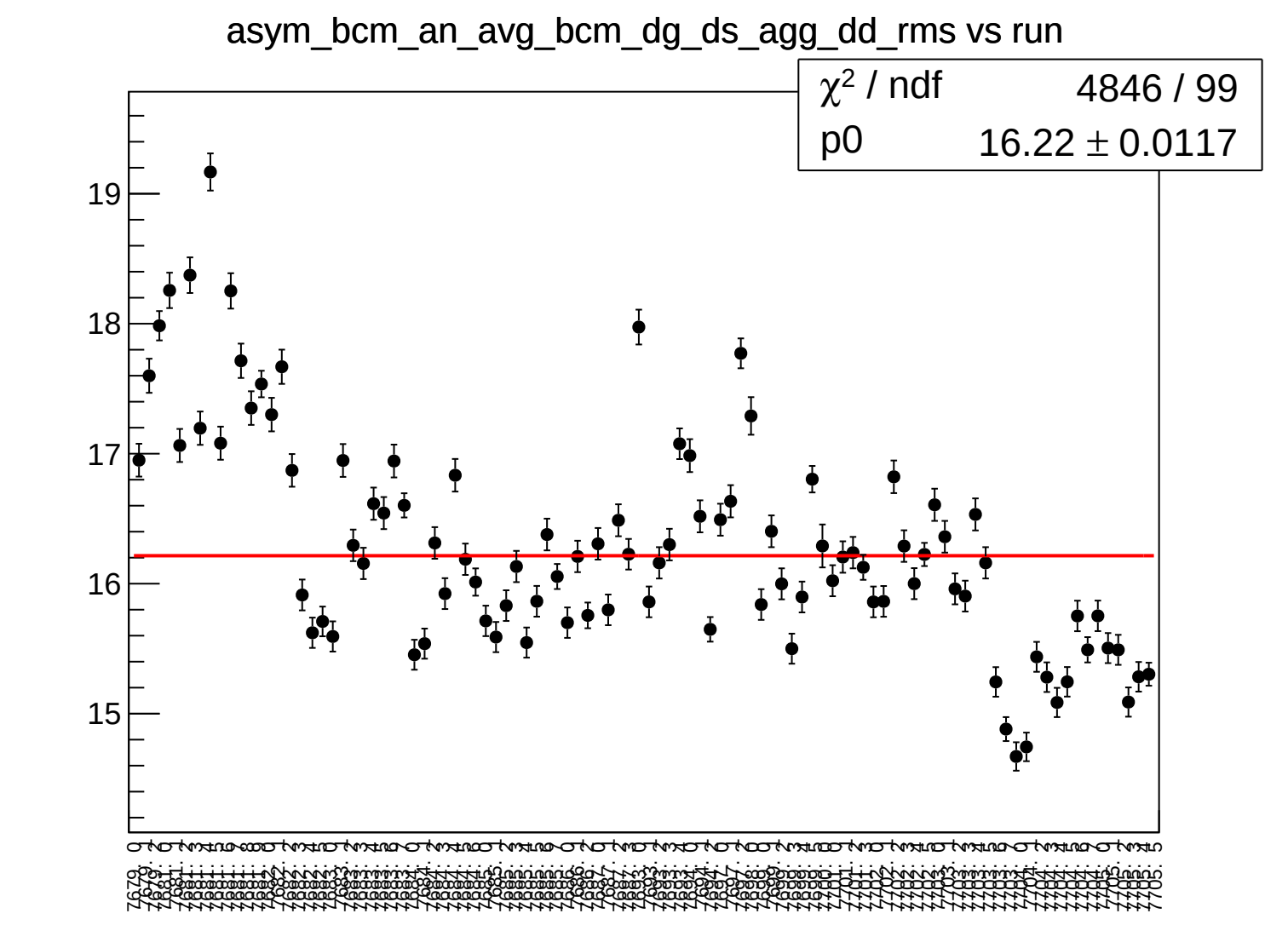

pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

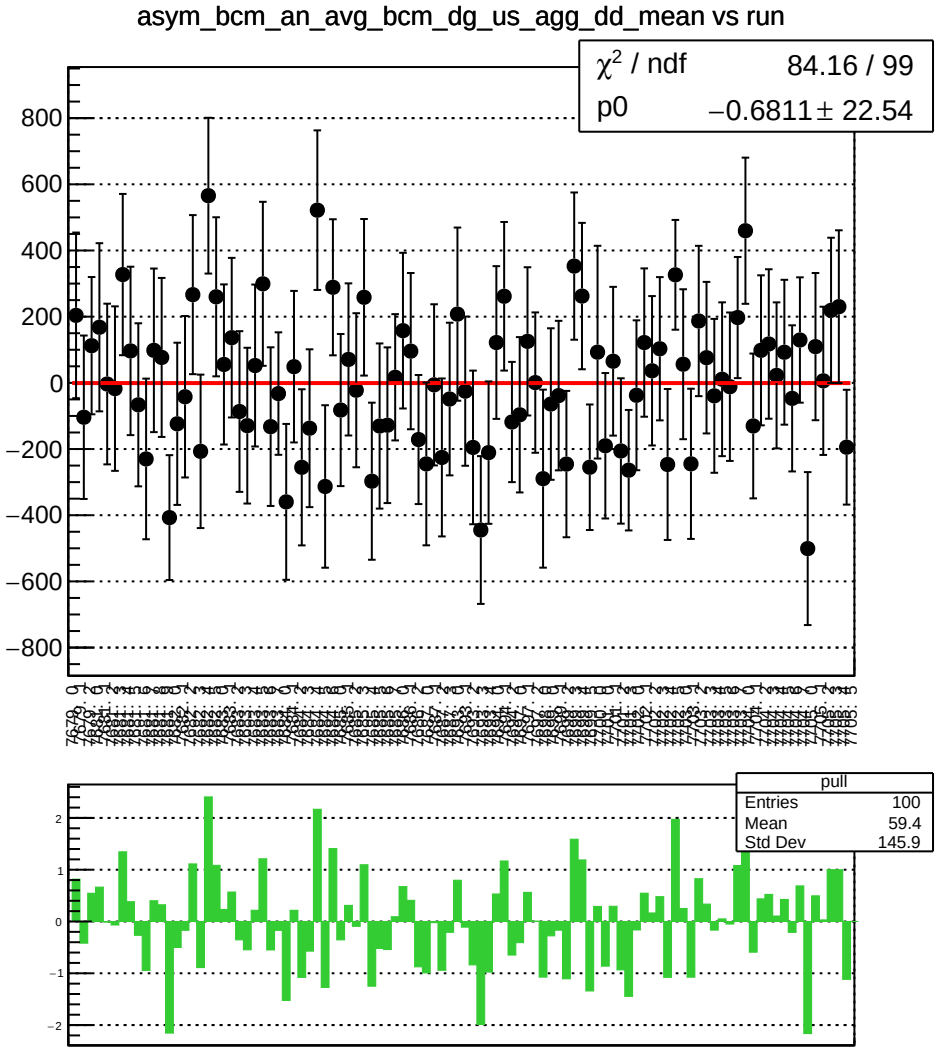

yield_atr2_rms vs run
χ² / ndf 2.636e+05 / 99
p0 0.0003005 ± 2.331e−07
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

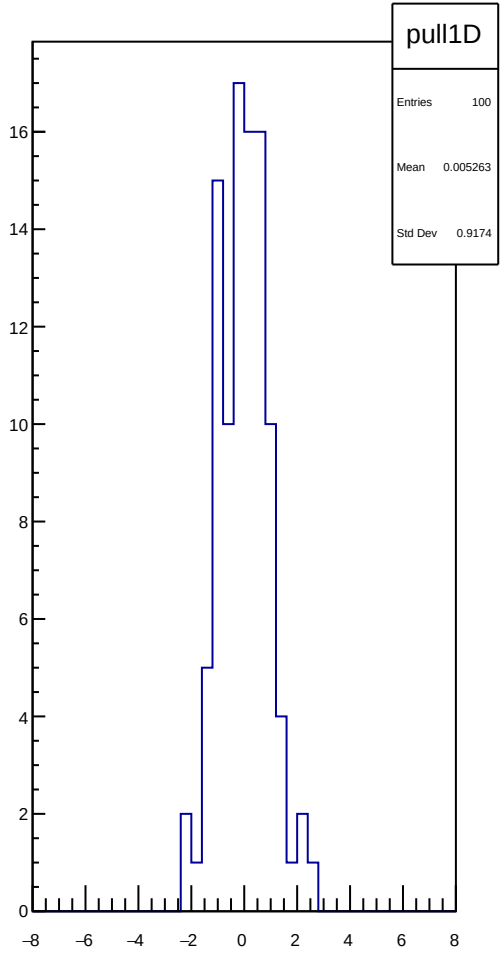

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 19.43 / 99
p0 63.79 ± 259.9
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 560.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 100
Mean 0.001708
Std Dev 0.4408
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

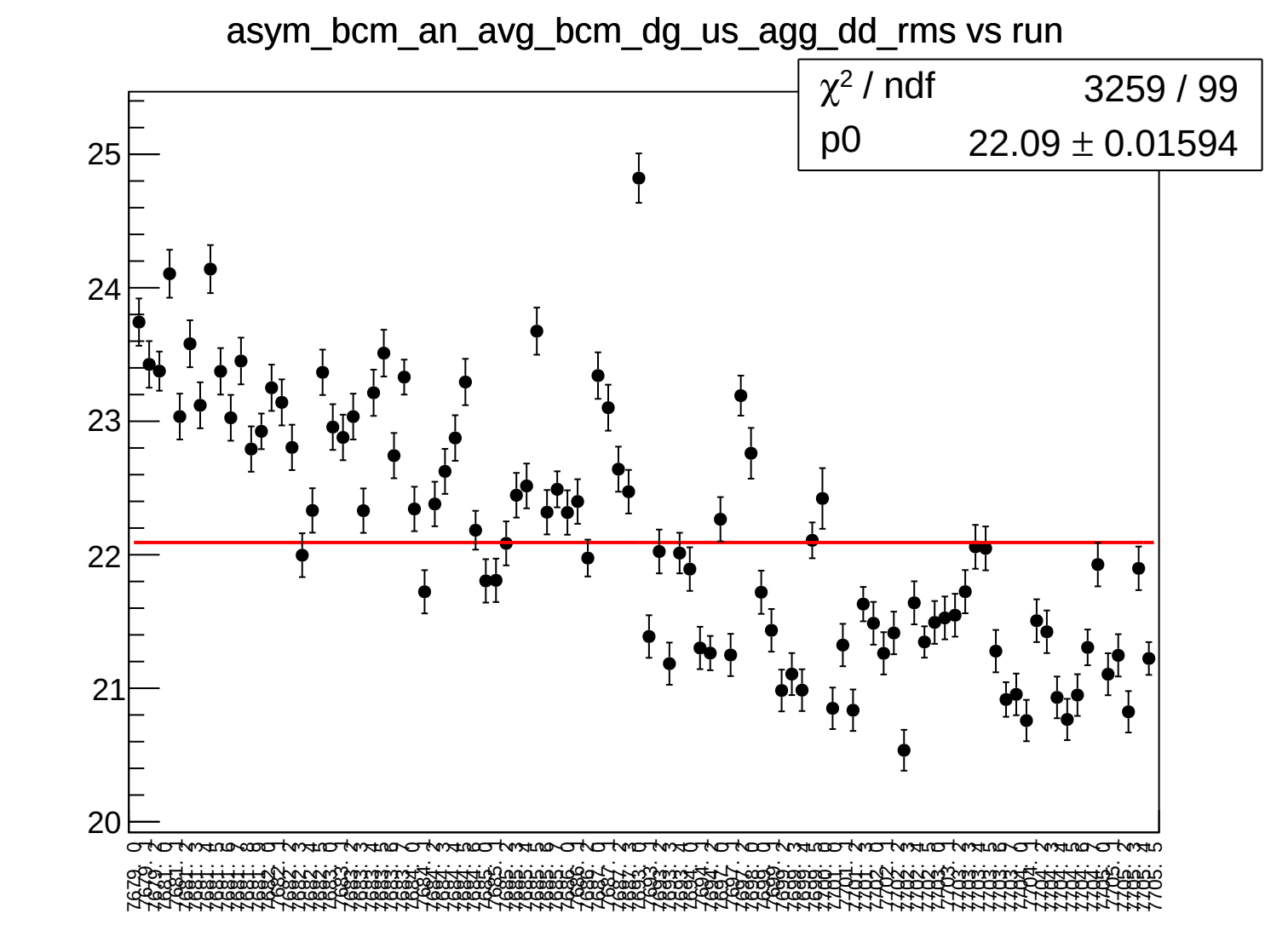

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.608e+04 / 99
p0 253.9 ± 0.1838
320
300
280
260
240
220

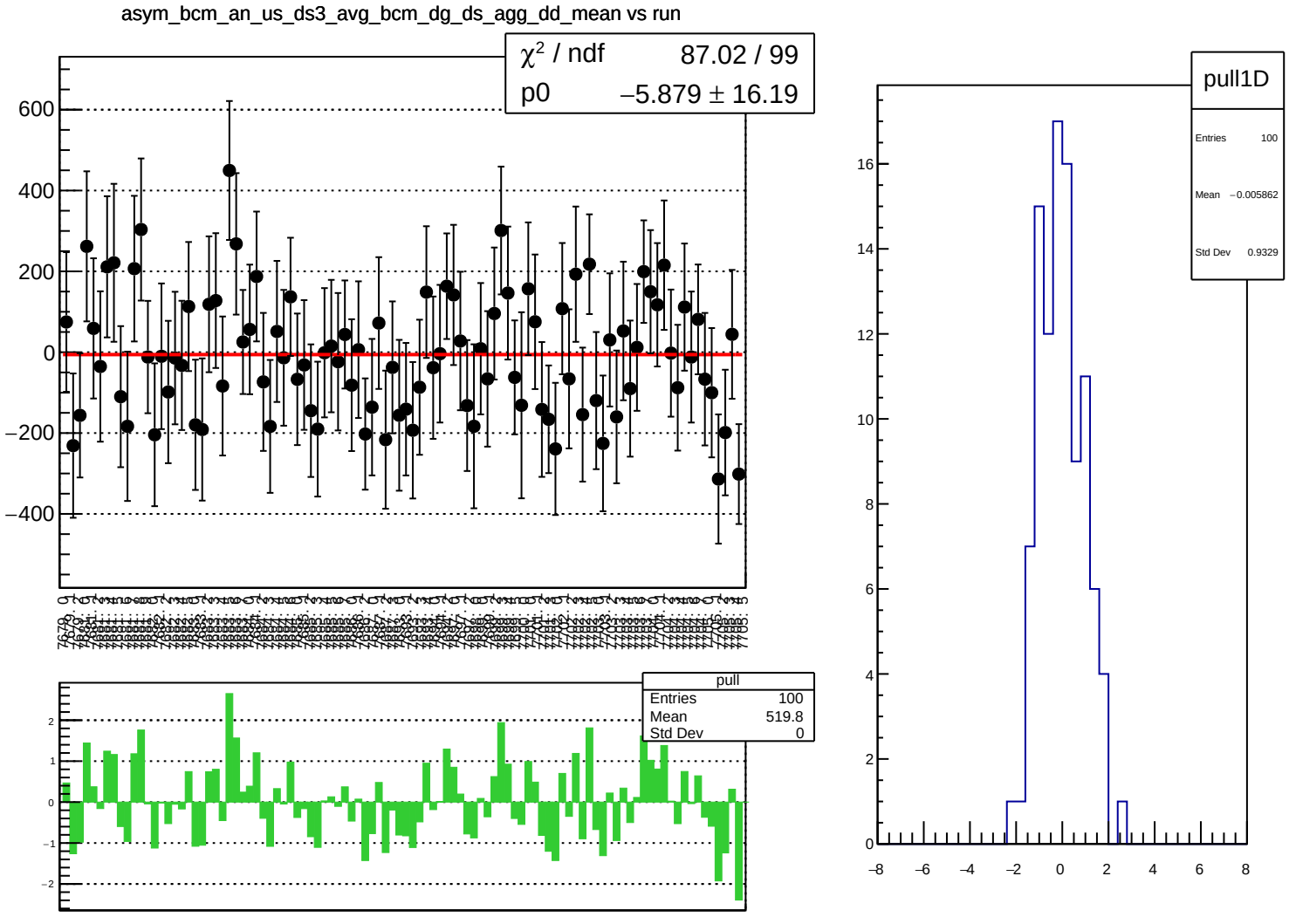

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 90.88 / 99
p0 −8.809 ± 16.55
pull
Entries 100
Mean 497.4
Std Dev 0
pull1D
Entries 100
Mean −0.006096
Std Dev 0.9533

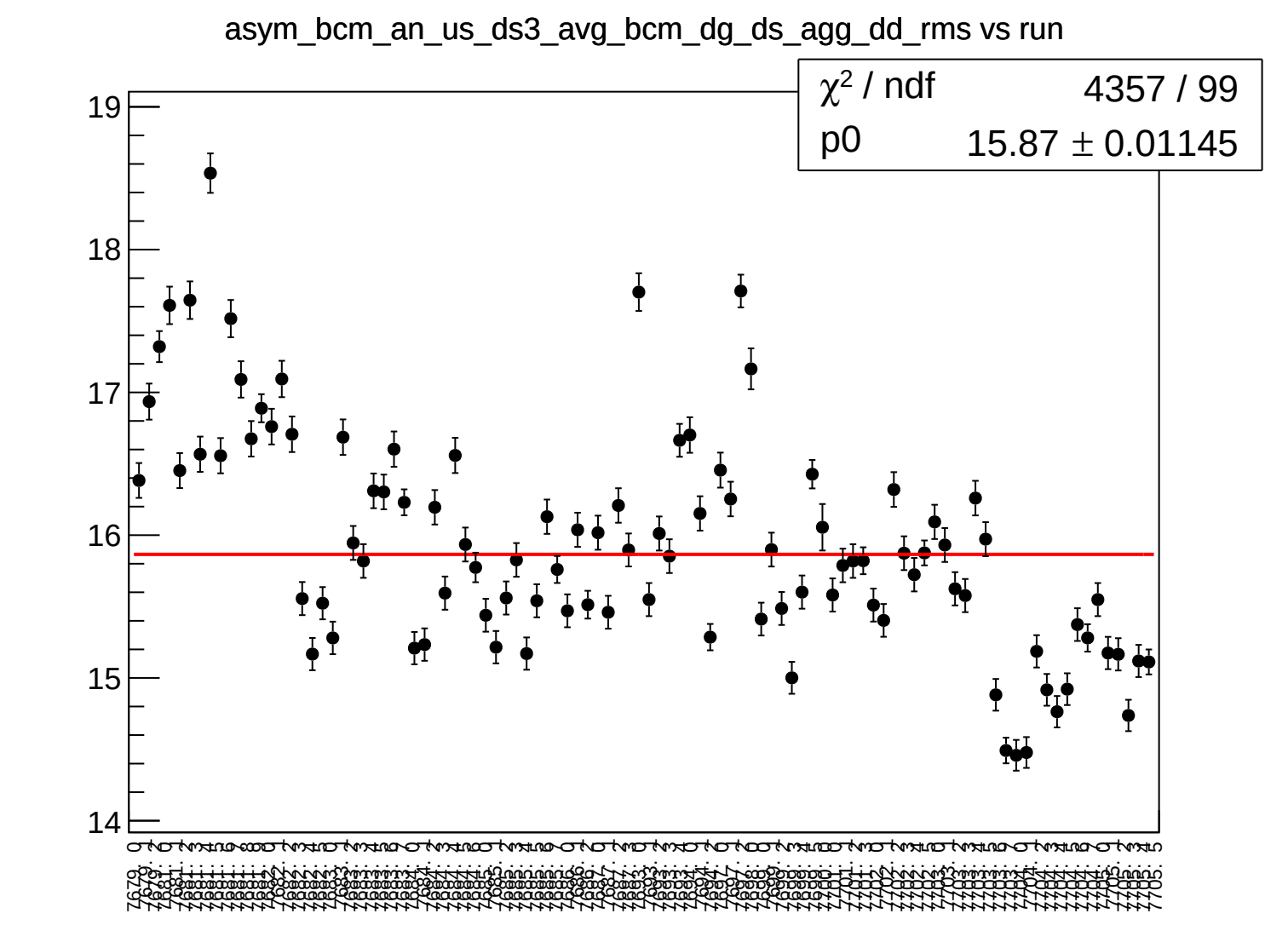

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 4846 / 99
p0 16.22 ± 0.0117
19
18
17
16
15

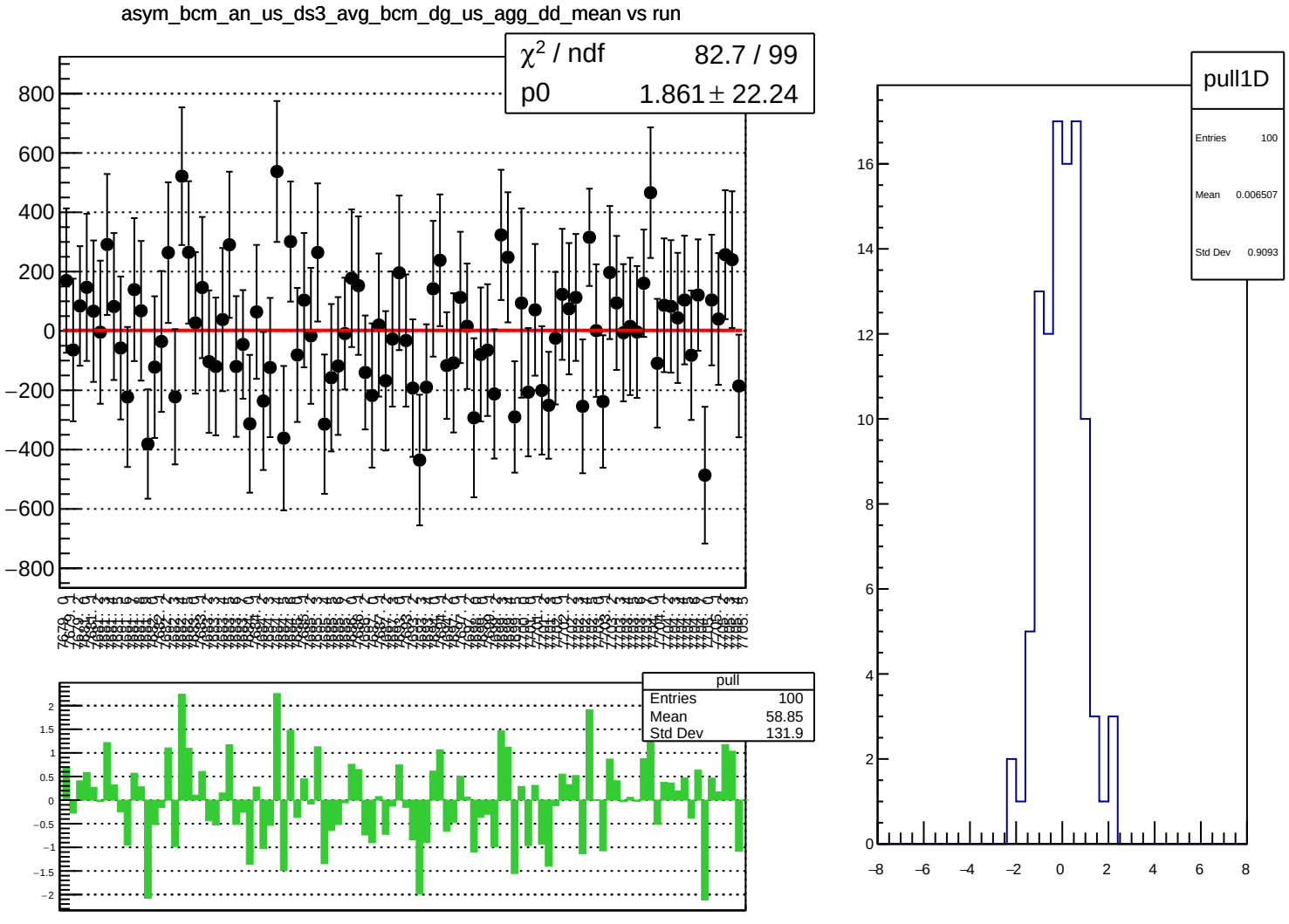

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 84.16 / 99
p0 −0.6811 ± 22.54
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 100
Mean 59.4
Std Dev 145.9
2
1
0
−1
−2

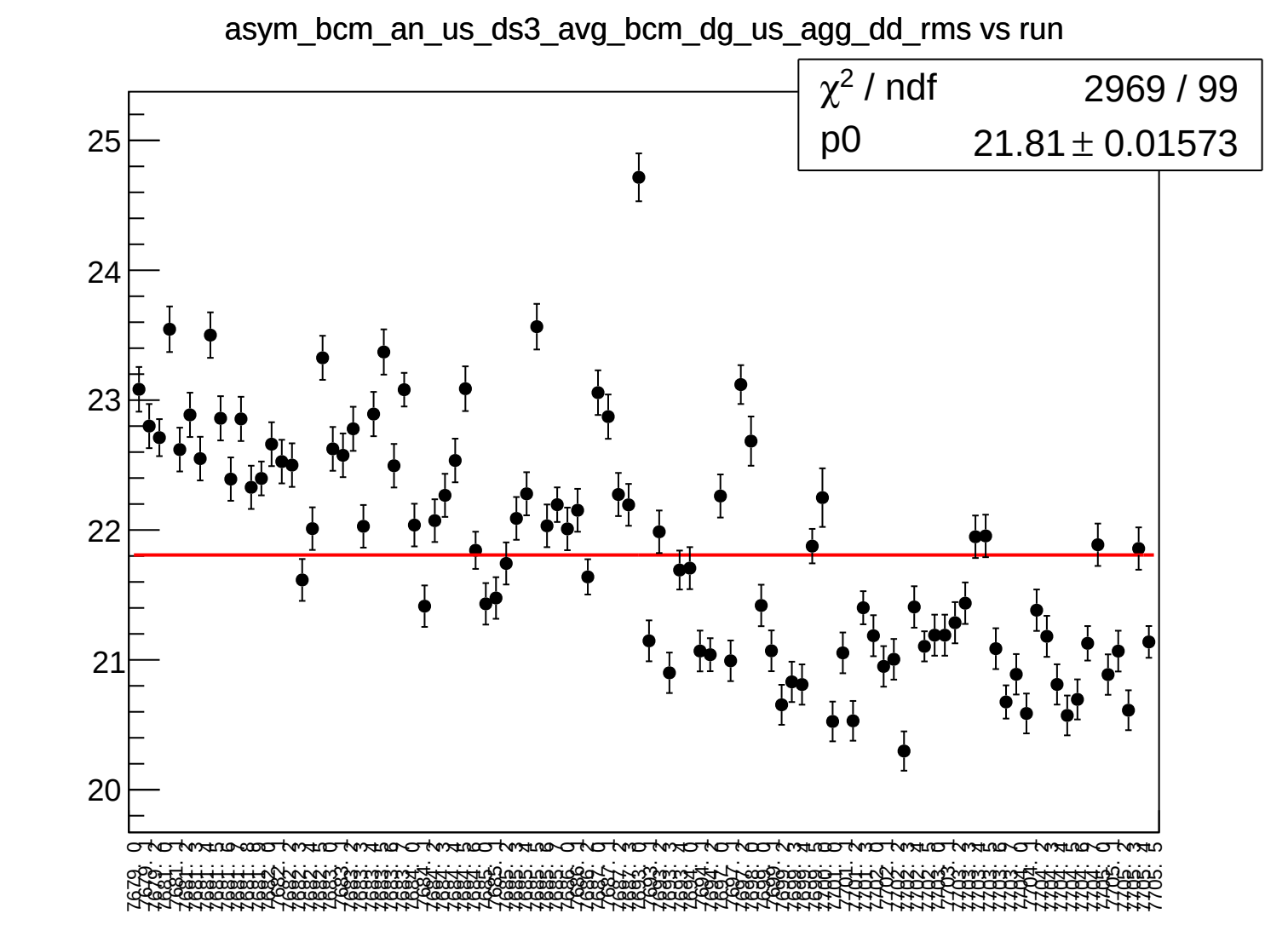

pull1D
Entries 100
Mean 0.005263
Std Dev 0.9174
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

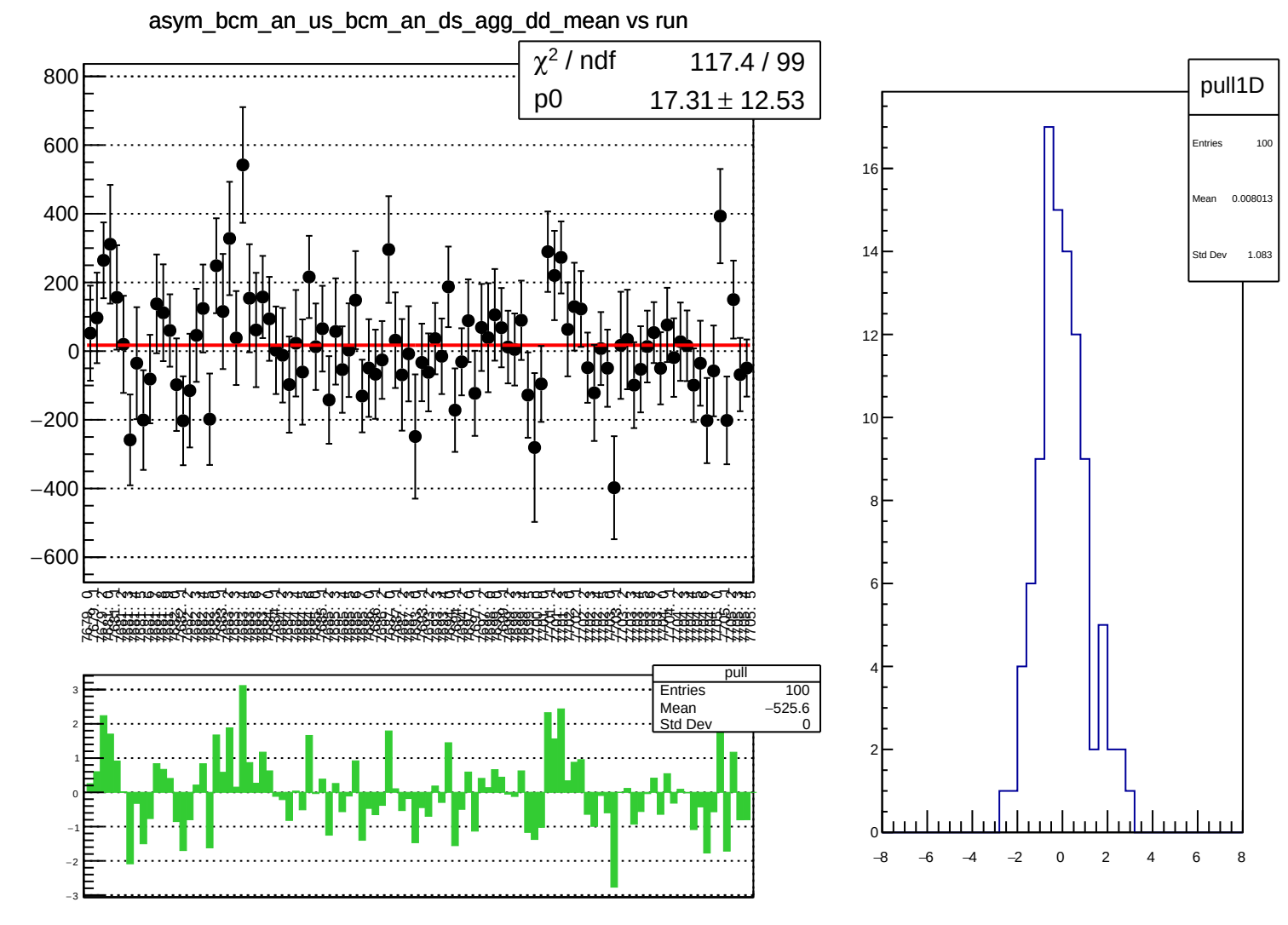

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 3259 / 99
p0 22.09 ± 0.01594
25
24
23
22
21
20

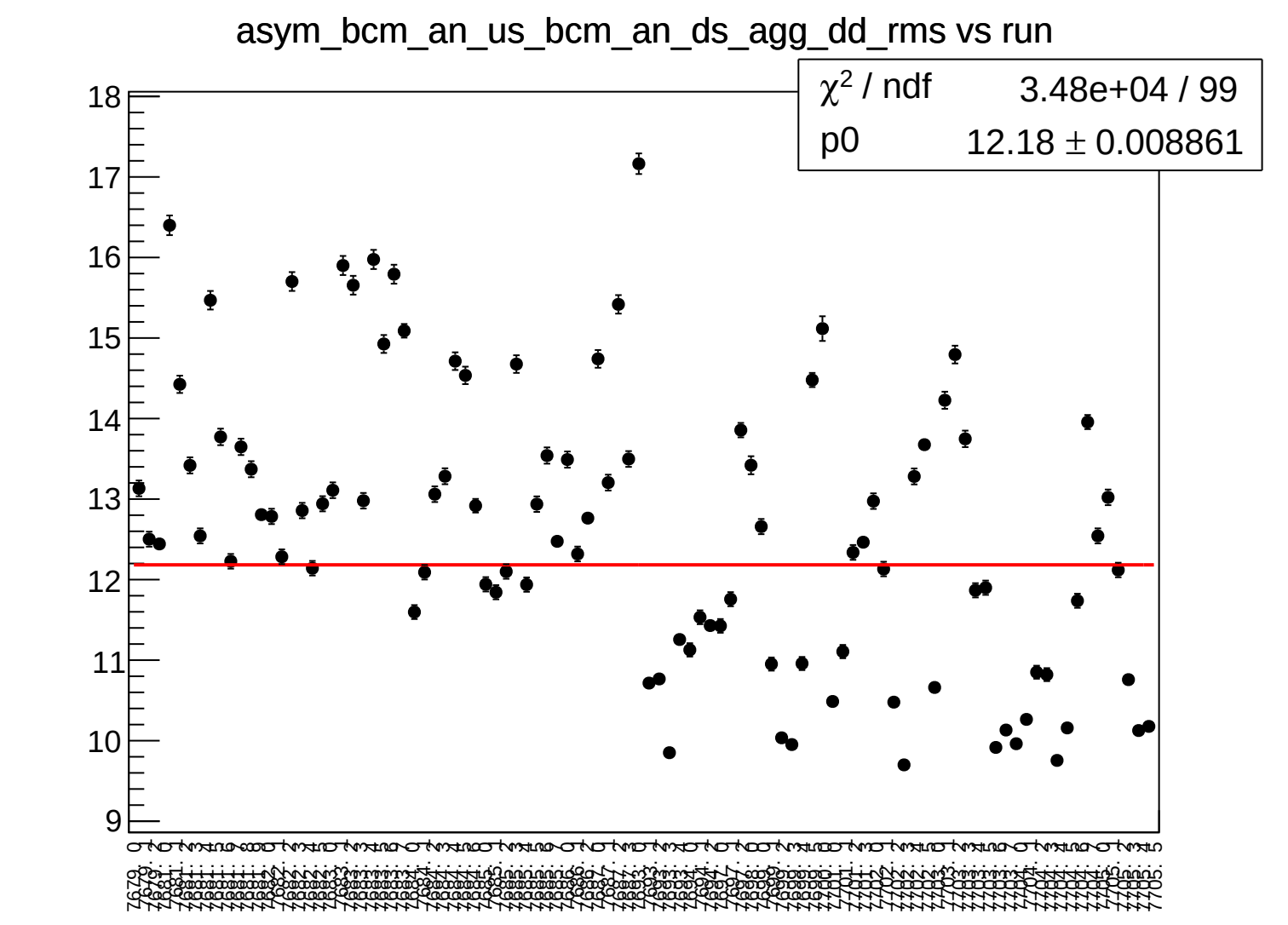

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 87.02 / 99
p0 −5.879 ± 16.19
600
400
200
0
−200
−400
pull
Entries 100
Mean 519.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.005862
Std Dev 0.9329
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

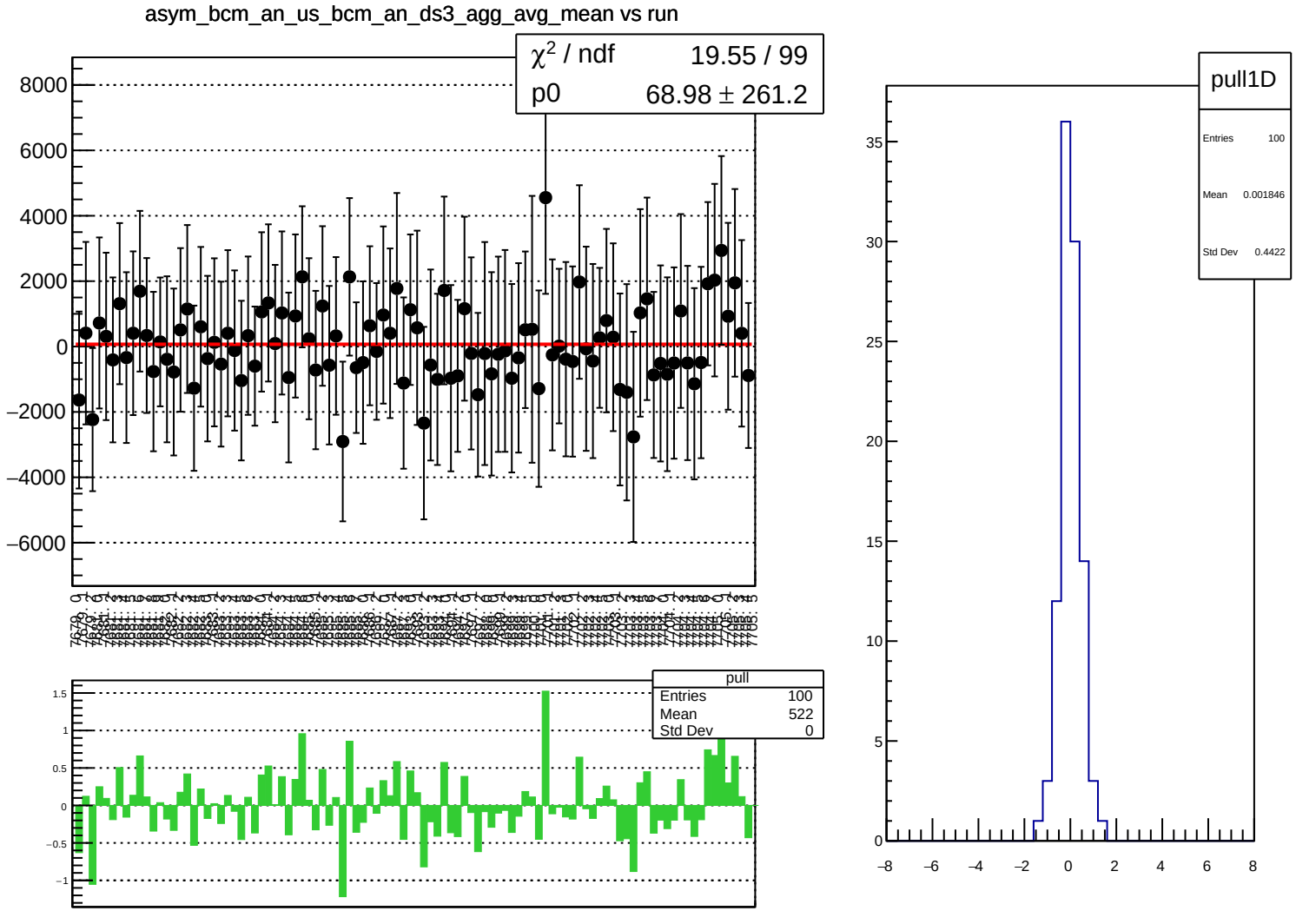

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 4357 / 99
p0 15.87 ± 0.01145
19
18
17
16
15
14

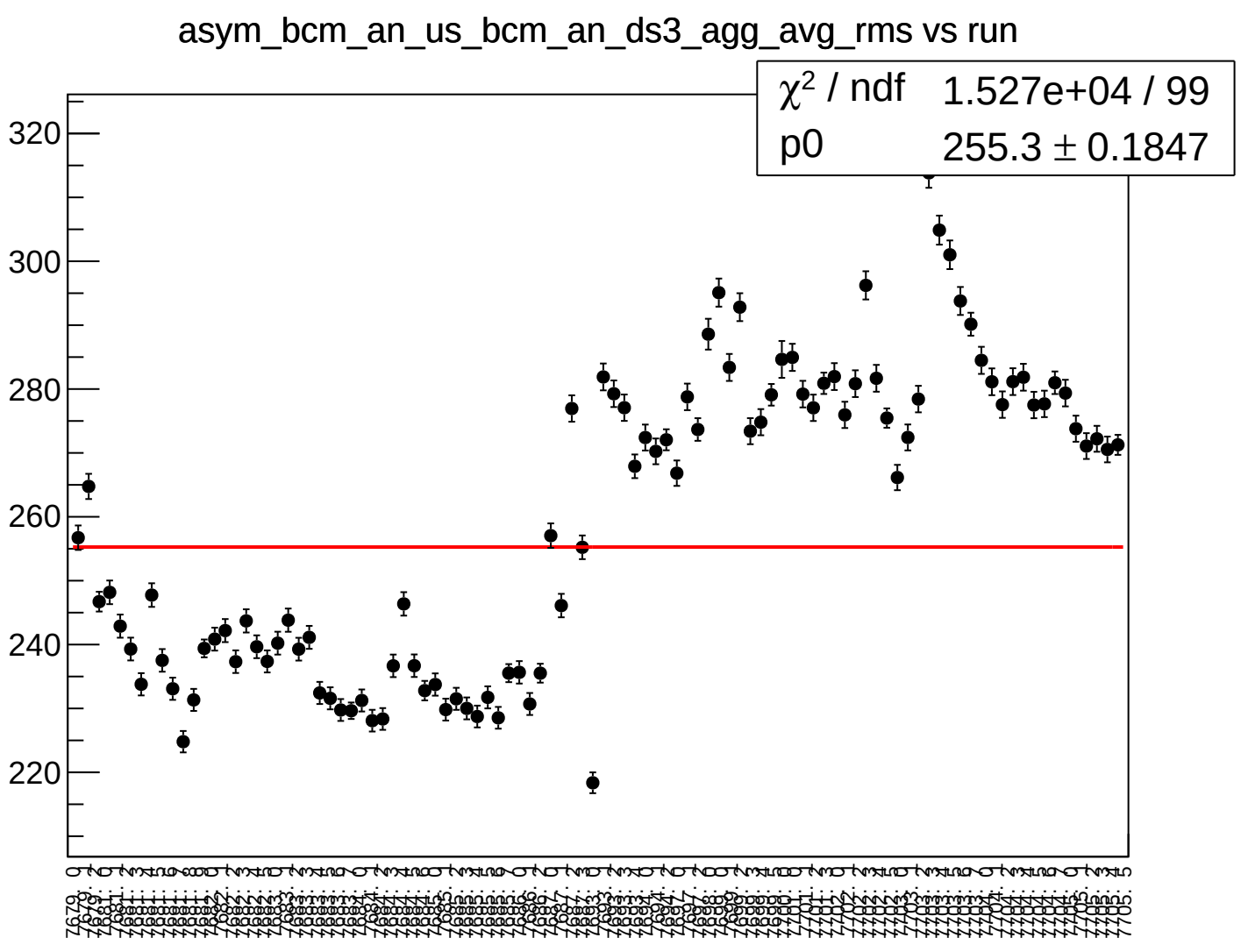

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 82.7 / 99
p0 1.861 ± 22.24
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 100
Mean 58.85
Std Dev 131.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 100
Mean 0.006507
Std Dev 0.9093
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

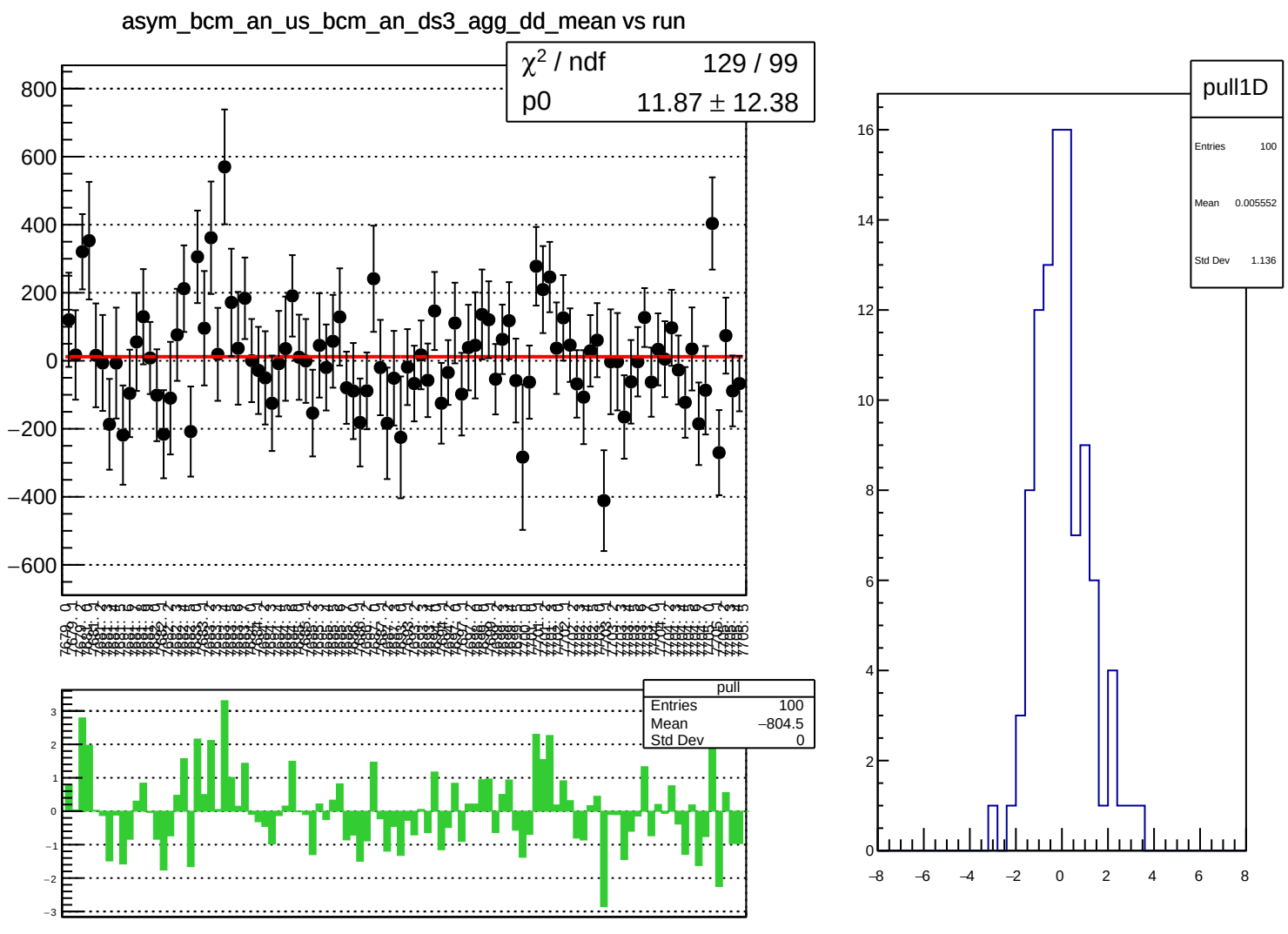

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 2969 / 99
p0 21.81 ± 0.01573
25
24
23
22
21
20

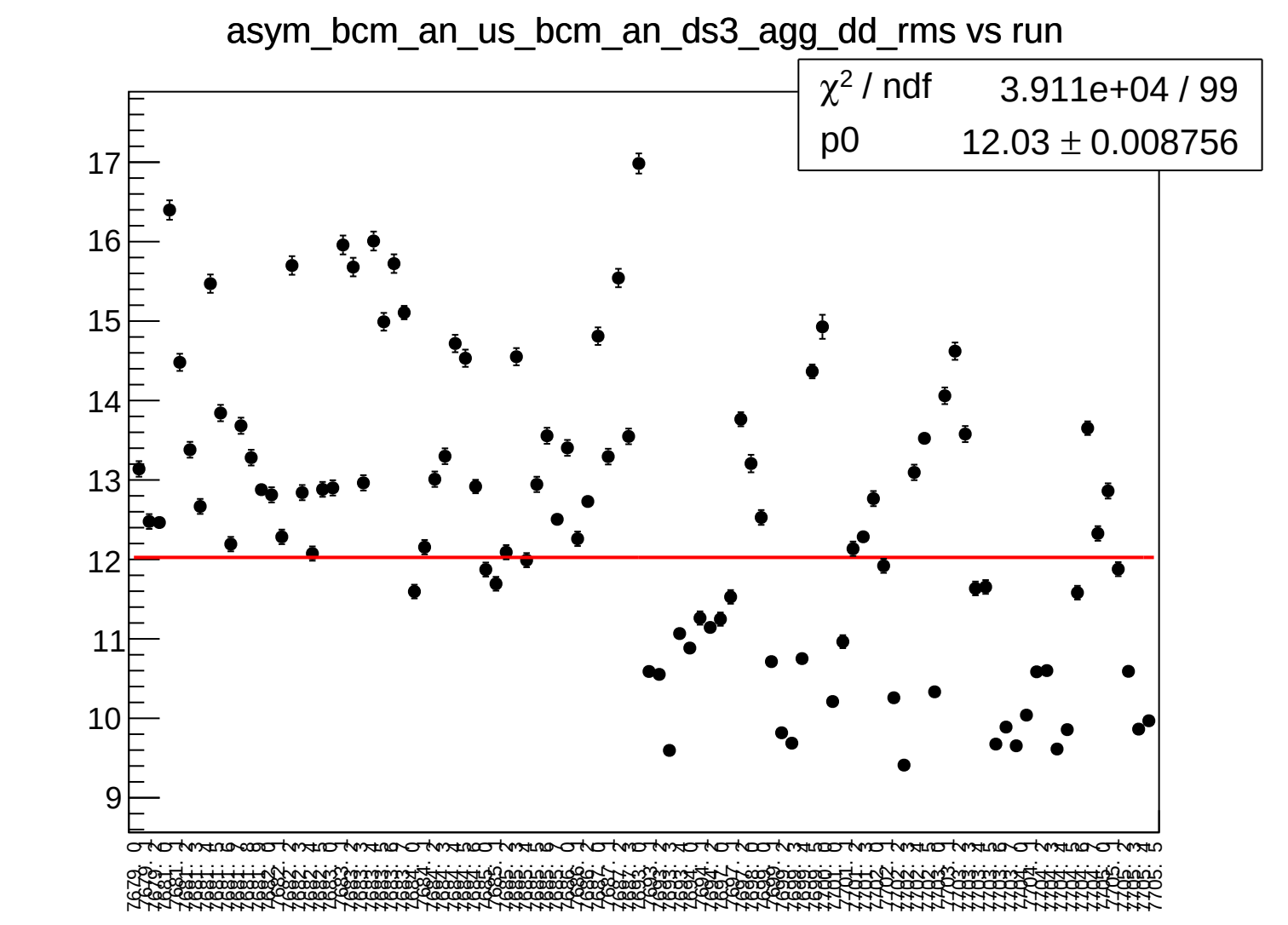

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 117.4 / 99
p0 17.31 ± 12.53
800
600
400
200
0
−200
−400
−600
pull
Entries 100
Mean −525.6
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean 0.008013
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

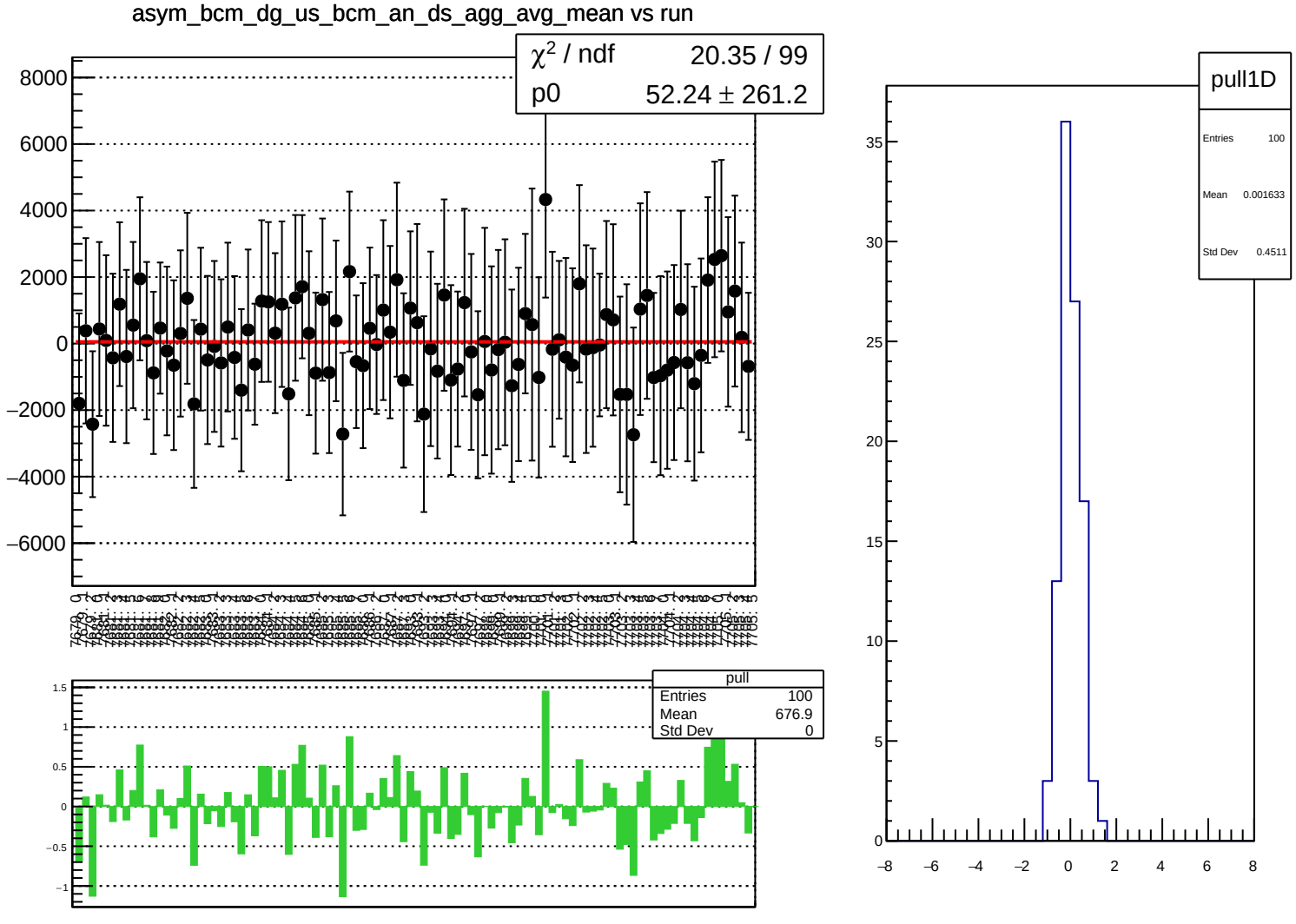

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3.48e+04 / 99
p0 12.18 ± 0.008861
18
17
16
15
14
13
12
11
10
9

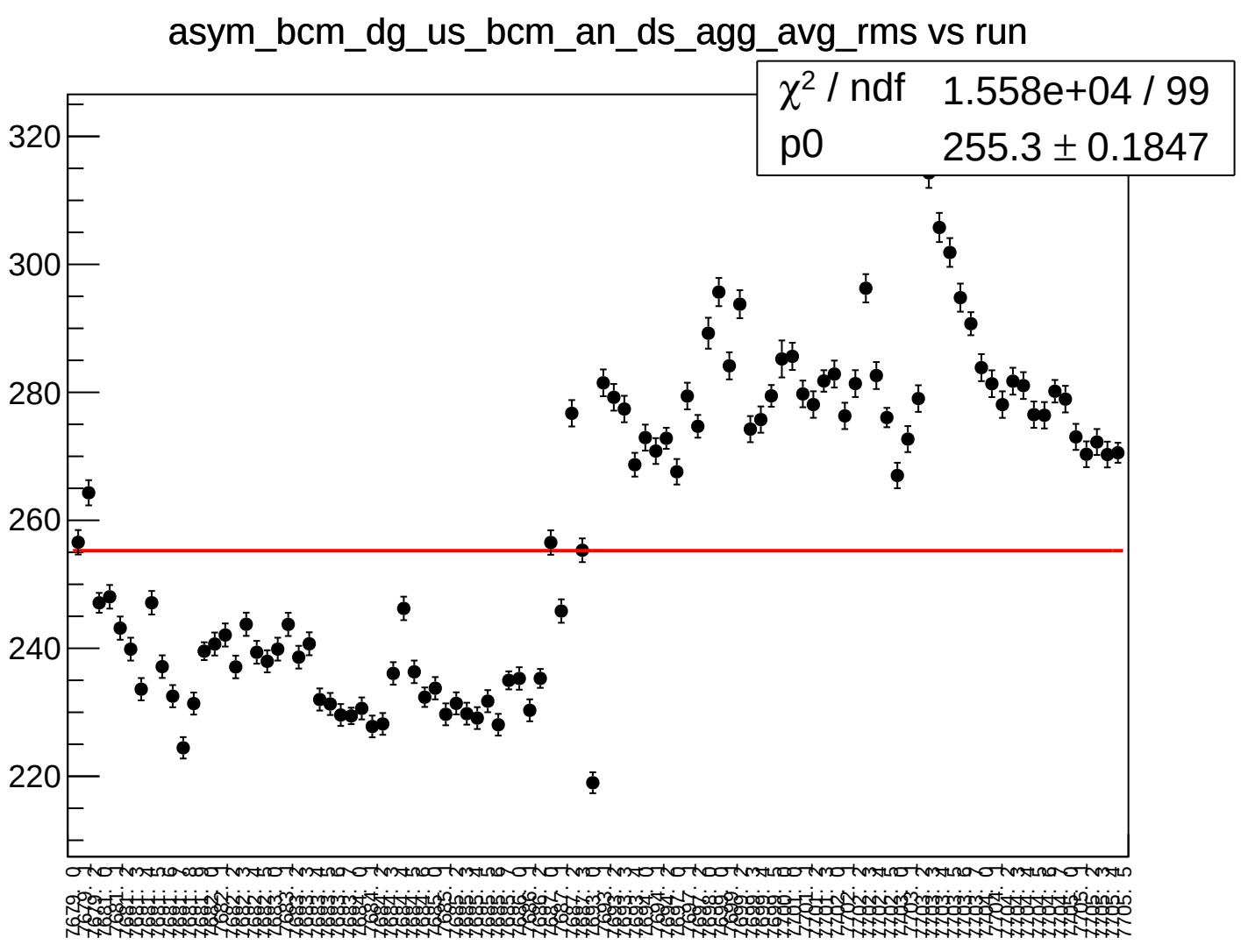

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 19.55 / 99
p0 68.98 ± 261.2
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 522
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 100
Mean 0.001846
Std Dev 0.4422
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

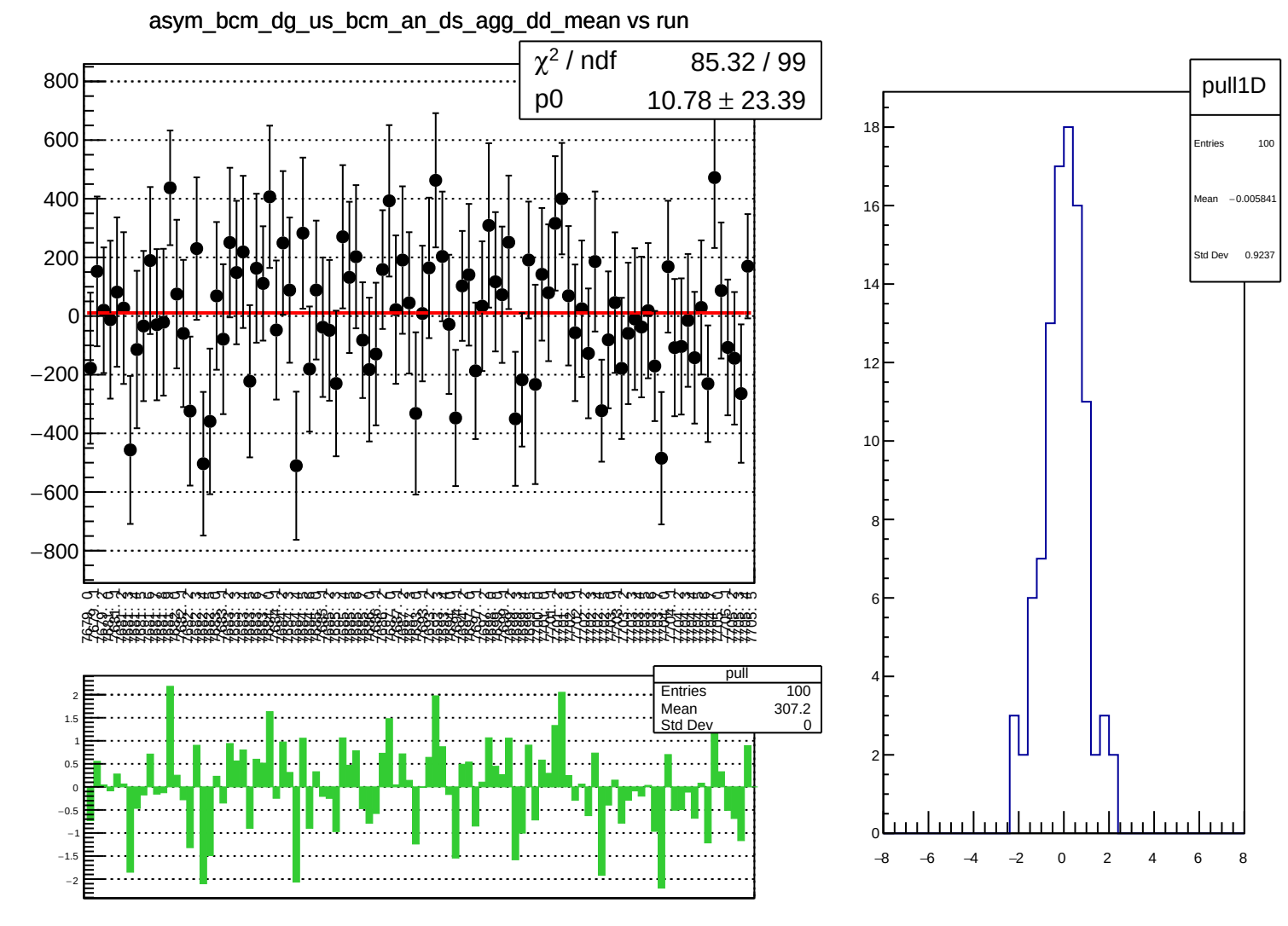

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 1.527e+04 / 99
p0 255.3 ± 0.1847
320
300
280
260
240
220

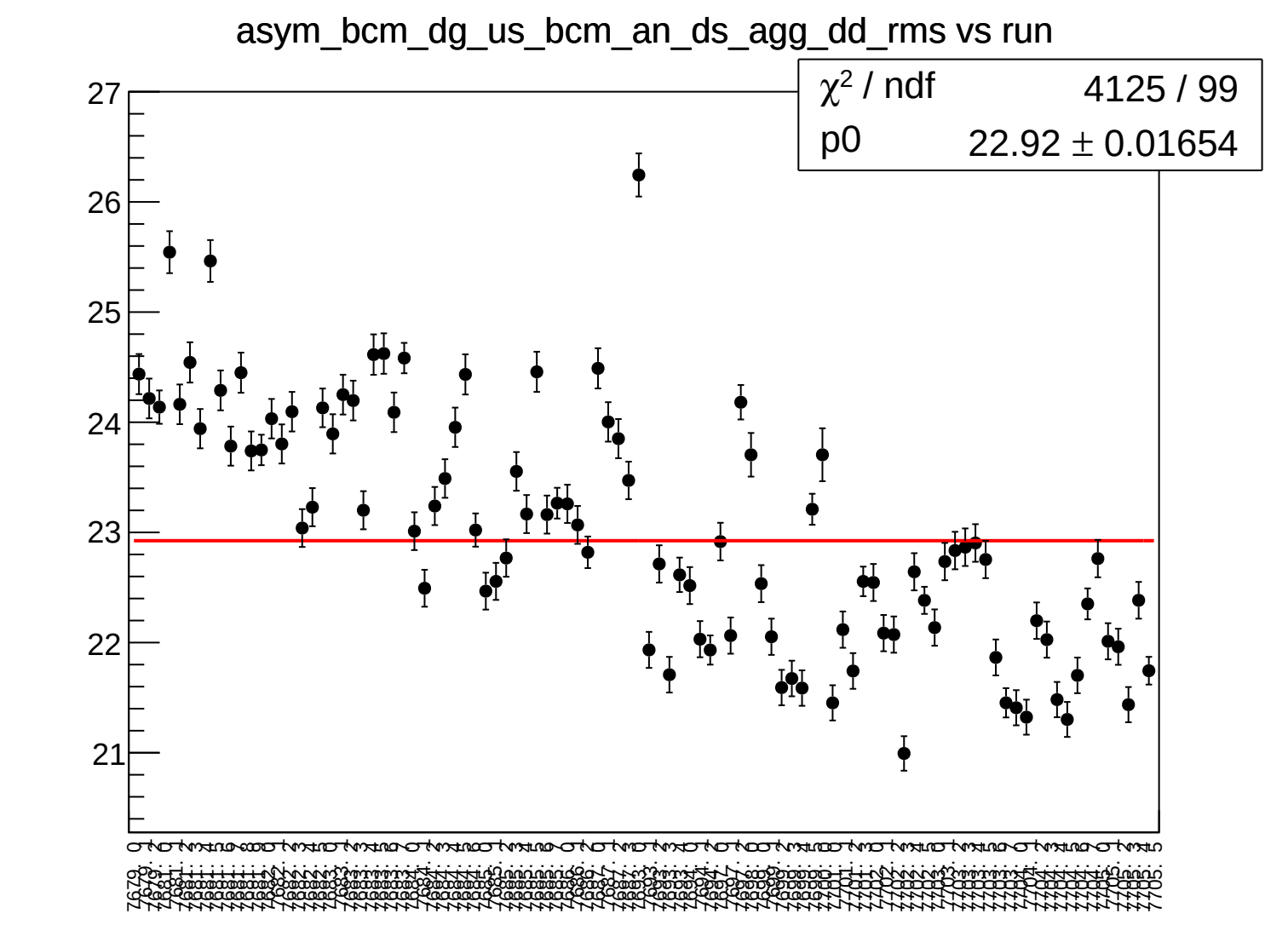

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 129 / 99
p0 11.87 ± 12.38
800
600
400
200
0
−200
−400
−600
pull
Entries 100
Mean −804.5
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean 0.005552
Std Dev 1.136
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

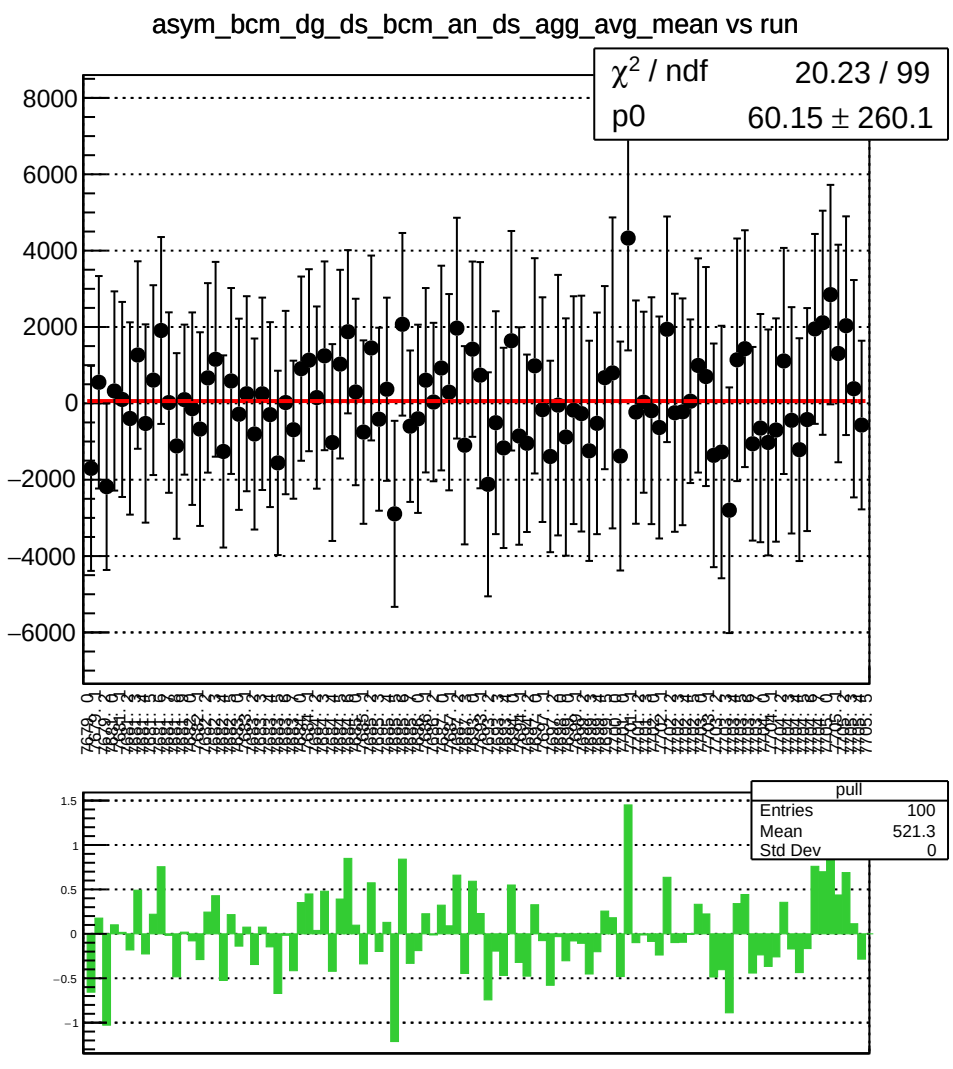

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 3.911e+04 / 99
p0 12.03 ± 0.008756
17
16
15
14
13
12
11
10
9

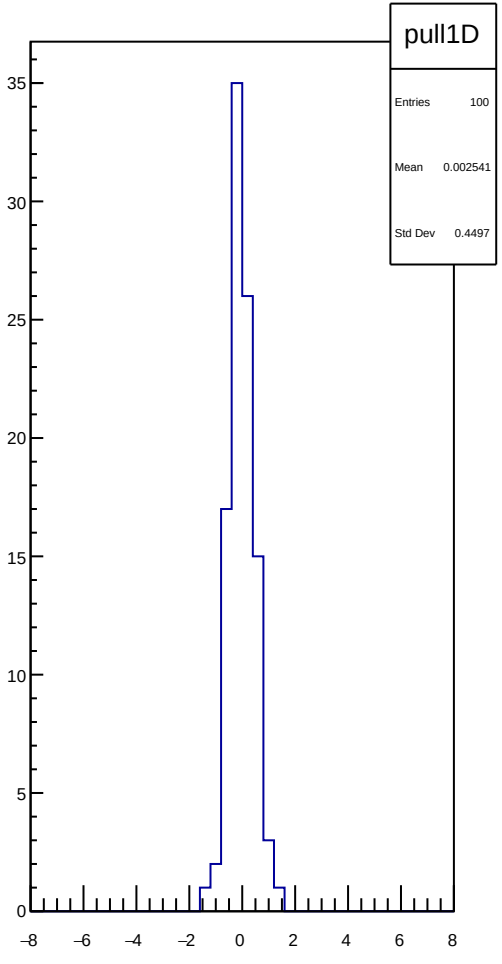

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 20.35 / 99
p0 52.24 ± 261.2
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 676.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 100
Mean 0.001633
Std Dev 0.4511
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

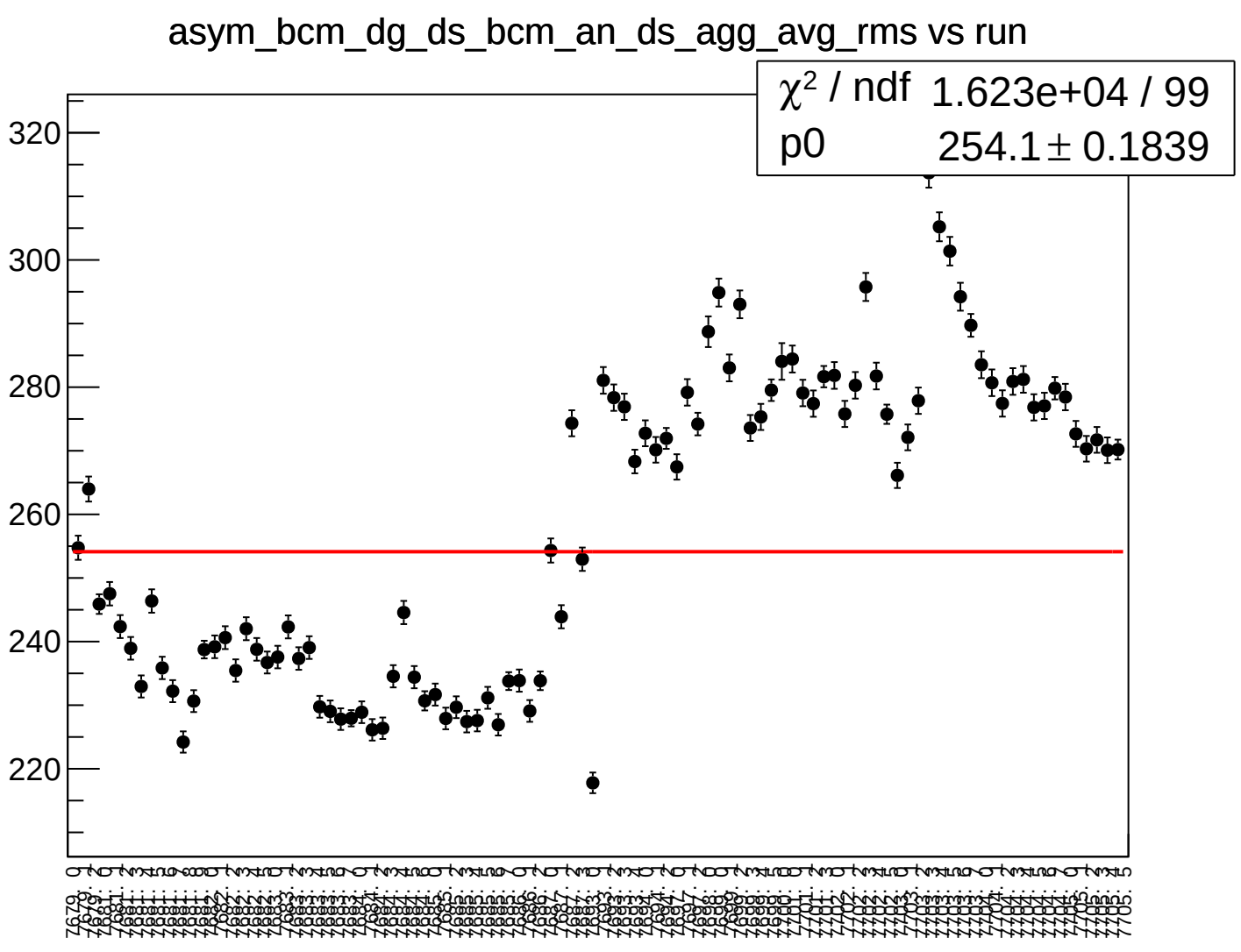

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.558e+04 / 99
p0 255.3 ± 0.1847
320
300
280
260
240
220

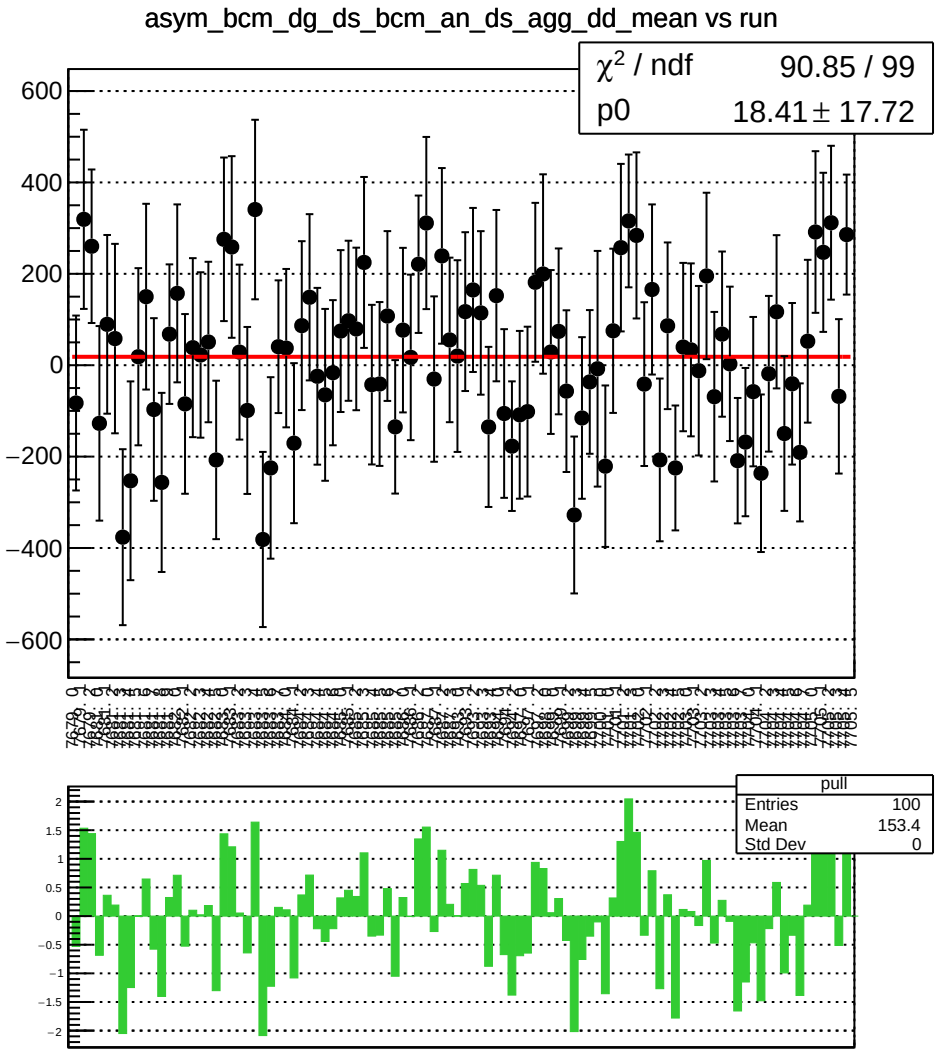

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 85.32 / 99
p0 10.78 ± 23.39
pull
Entries 100
Mean 307.2
Std Dev 0
pull1D
Entries 100
Mean −0.005841
Std Dev 0.9237

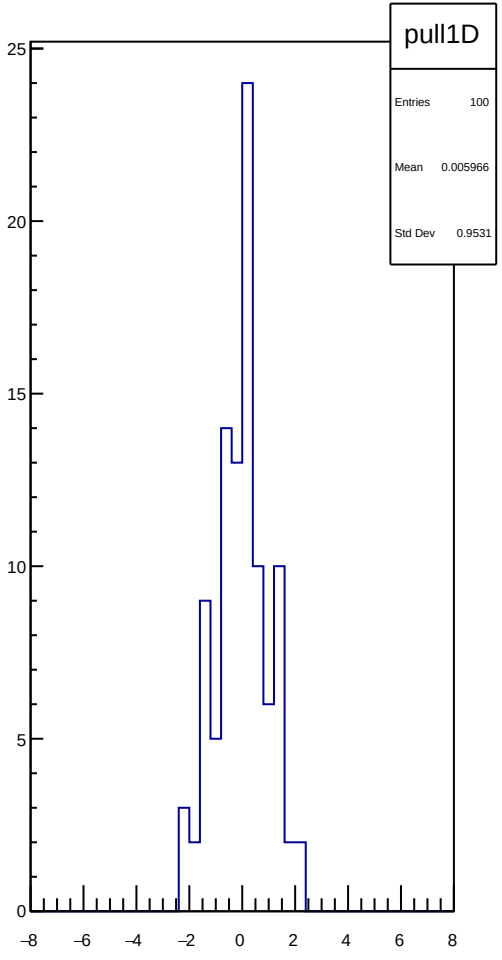

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 4125 / 99
p0 22.92 ± 0.01654
27
26
25
24
23
22
21

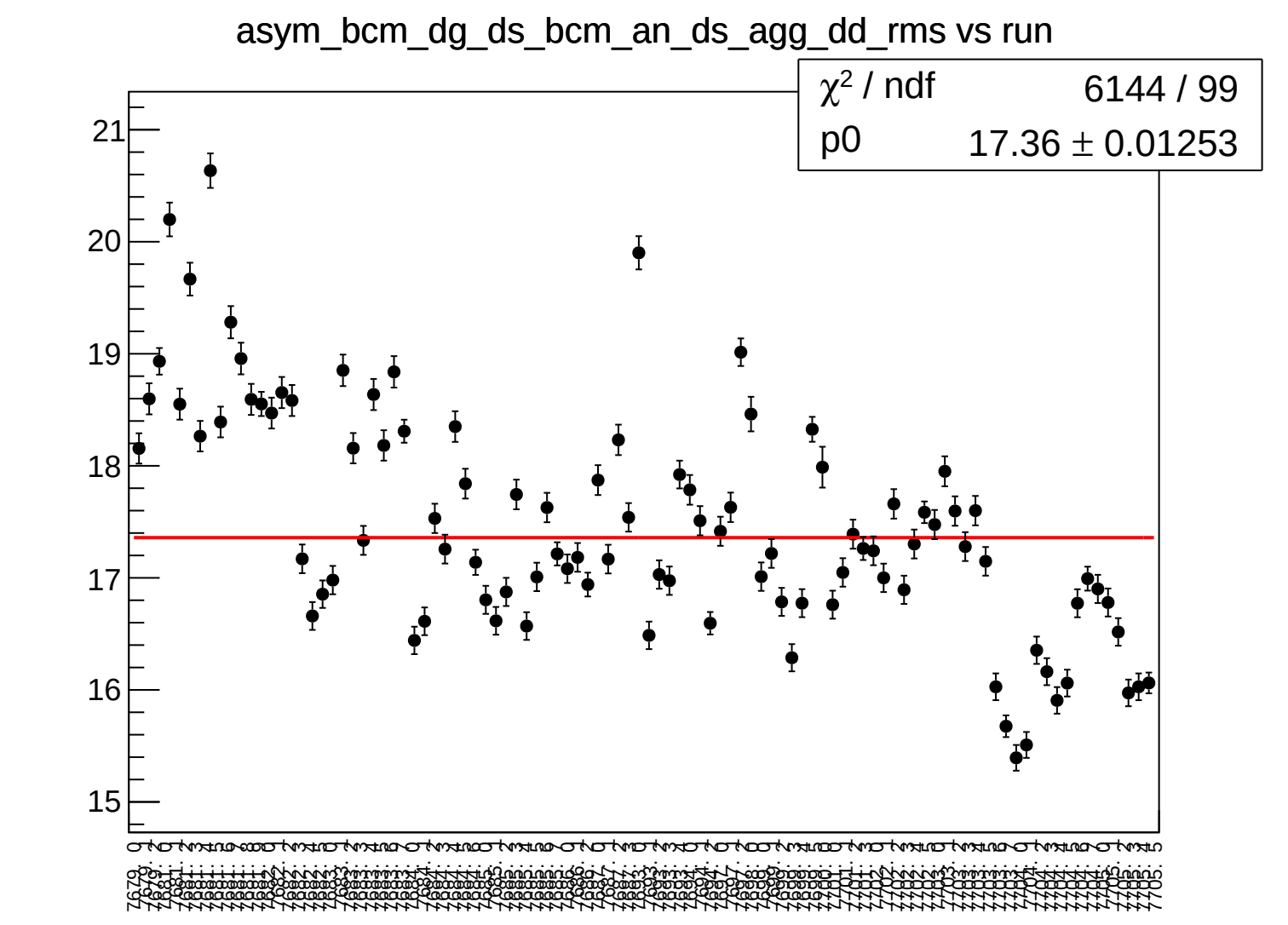

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 20.23 / 99
p0 60.15 ± 260.1
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 521.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1

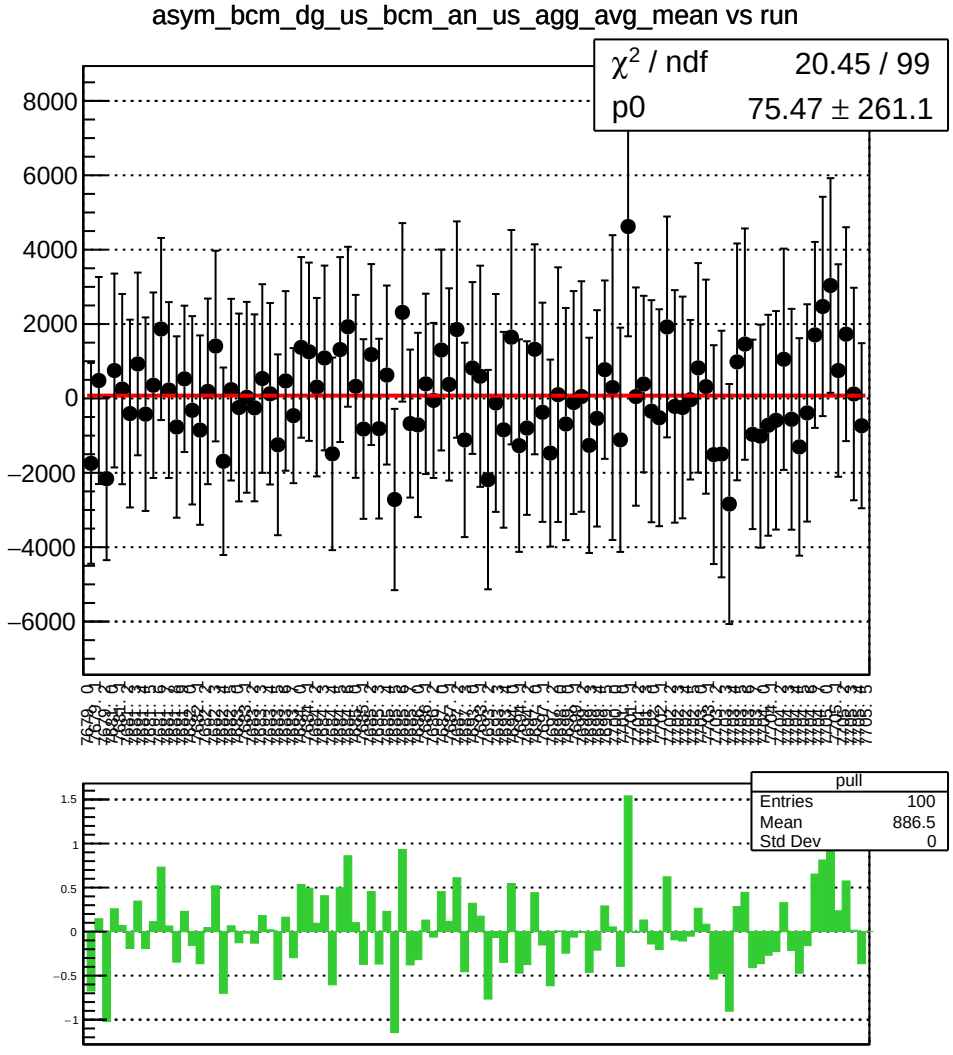

pull1D
Entries 100
Mean 0.002541
Std Dev 0.4497
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

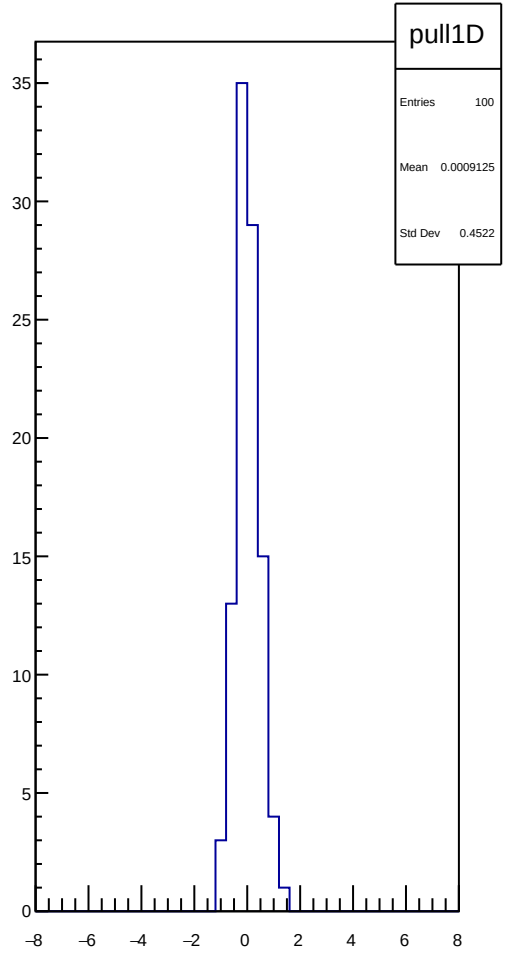

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.623e+04 / 99
p0 254.1 ± 0.1839
320
300
280
260
240
220

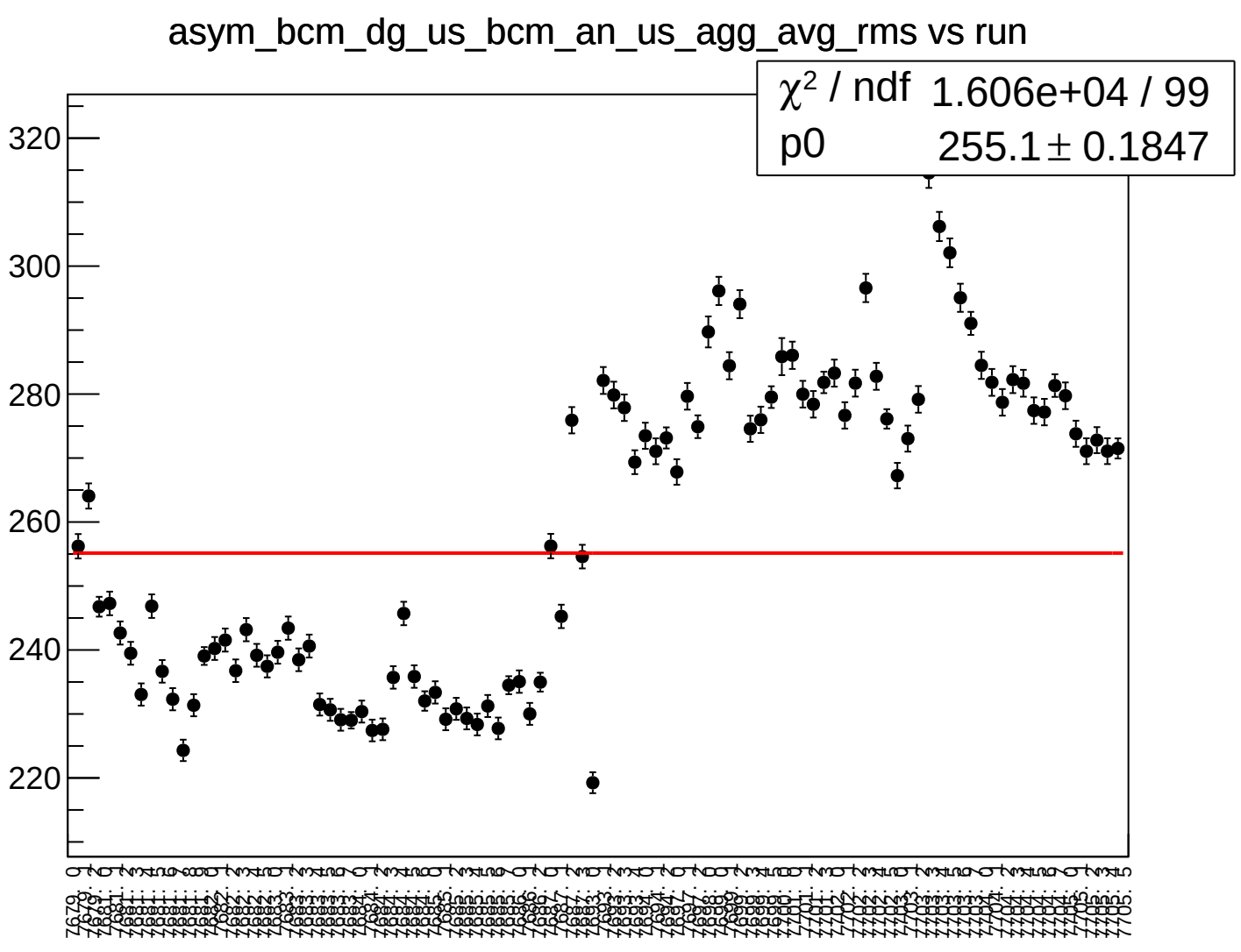

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 90.85 / 99
p0 18.41 ± 17.72
pull
Entries 100
Mean 153.4
Std Dev 0

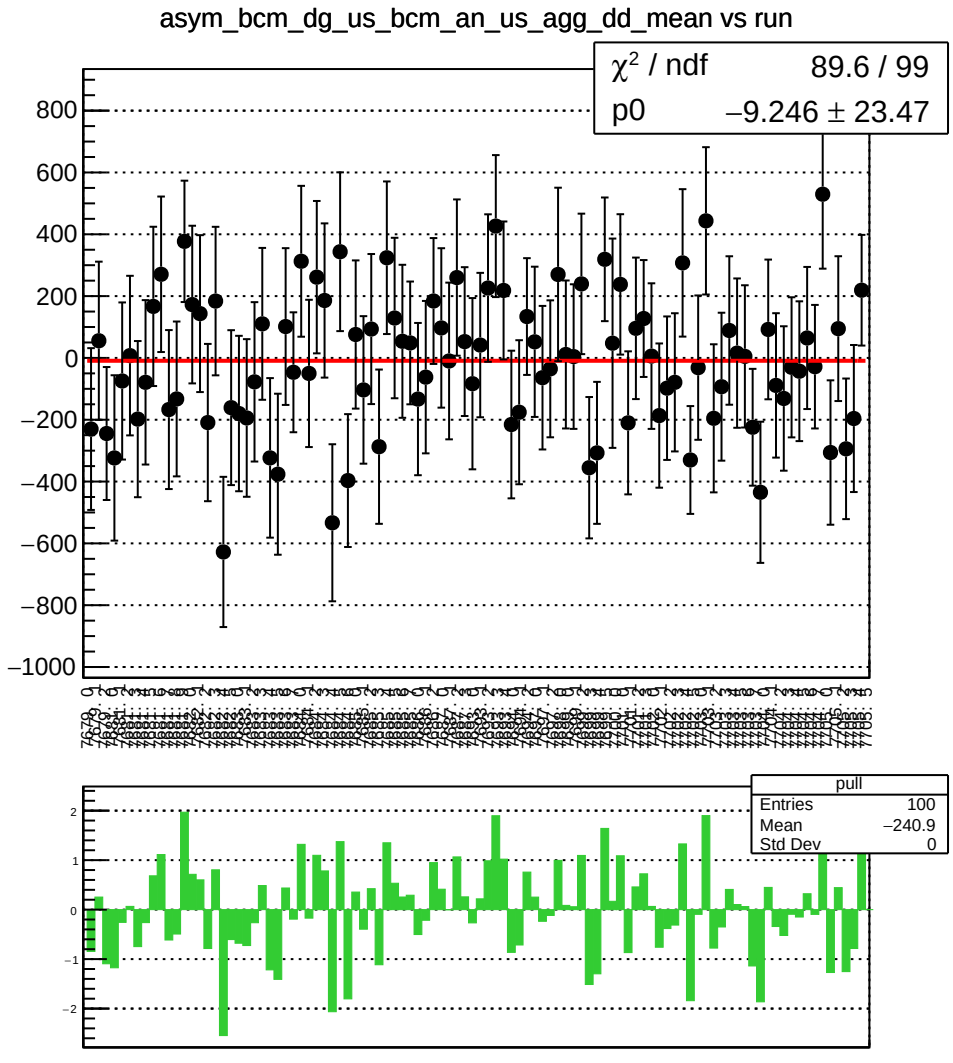

pull1D
Entries 100
Mean 0.005966
Std Dev 0.9531

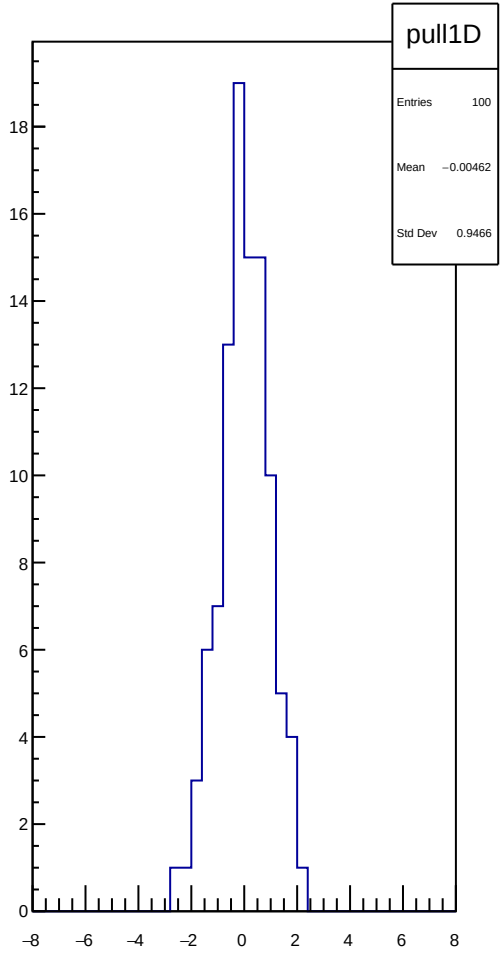

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 6144 / 99
p0 17.36 ± 0.01253
21
20
19
18
17
16
15

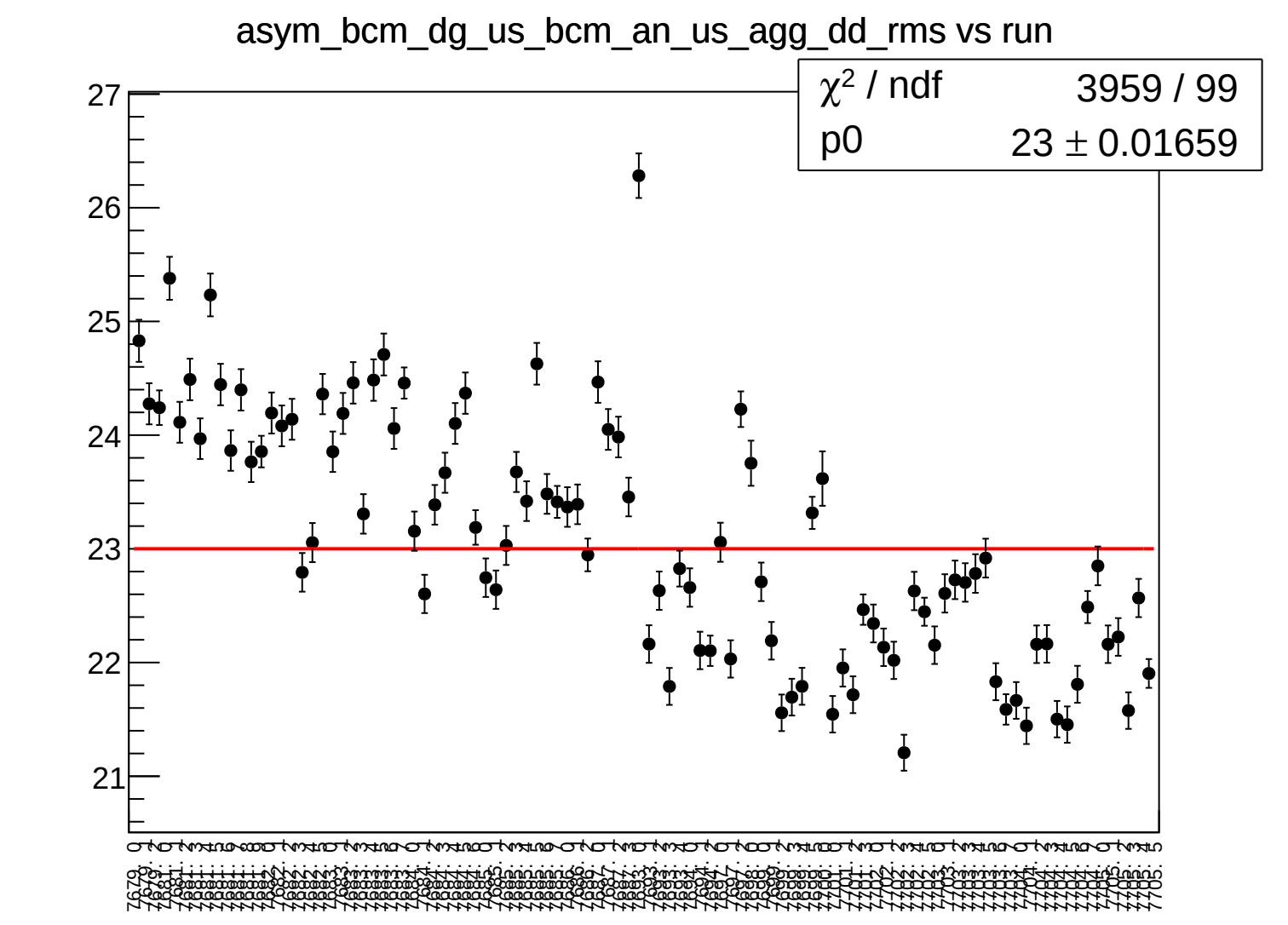

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 20.45 / 99
p0 75.47 ± 261.1
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 886.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1

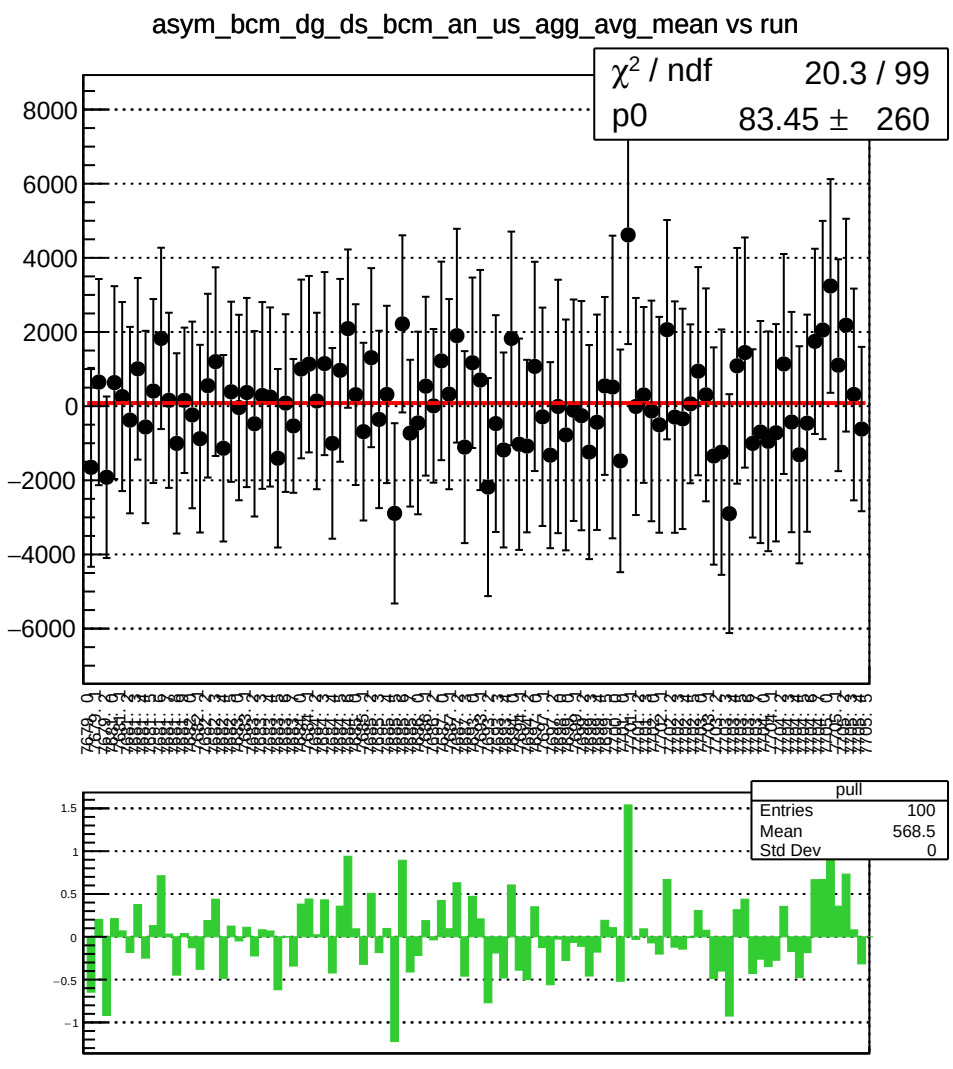

pull1D
Entries 100
Mean 0.0009125
Std Dev 0.4522
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

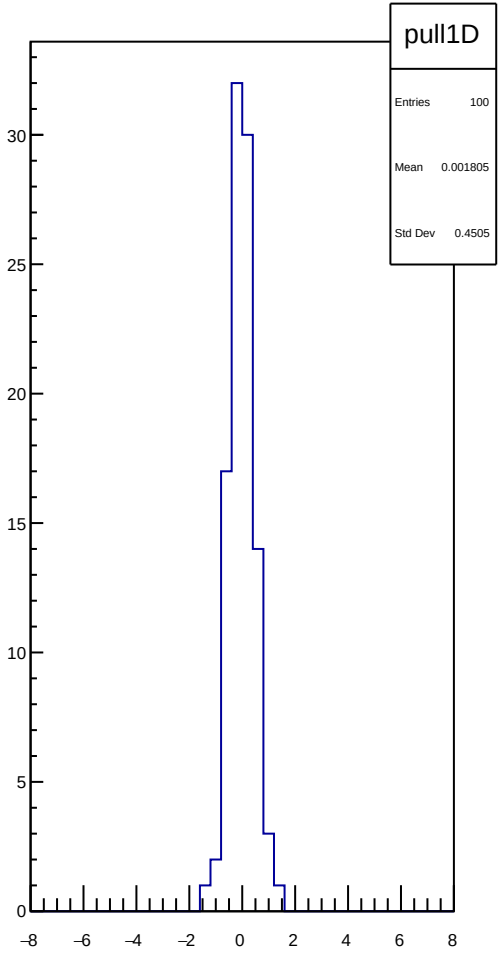

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.606e+04 / 99
p0 255.1 ± 0.1847
320
300
280
260
240
220

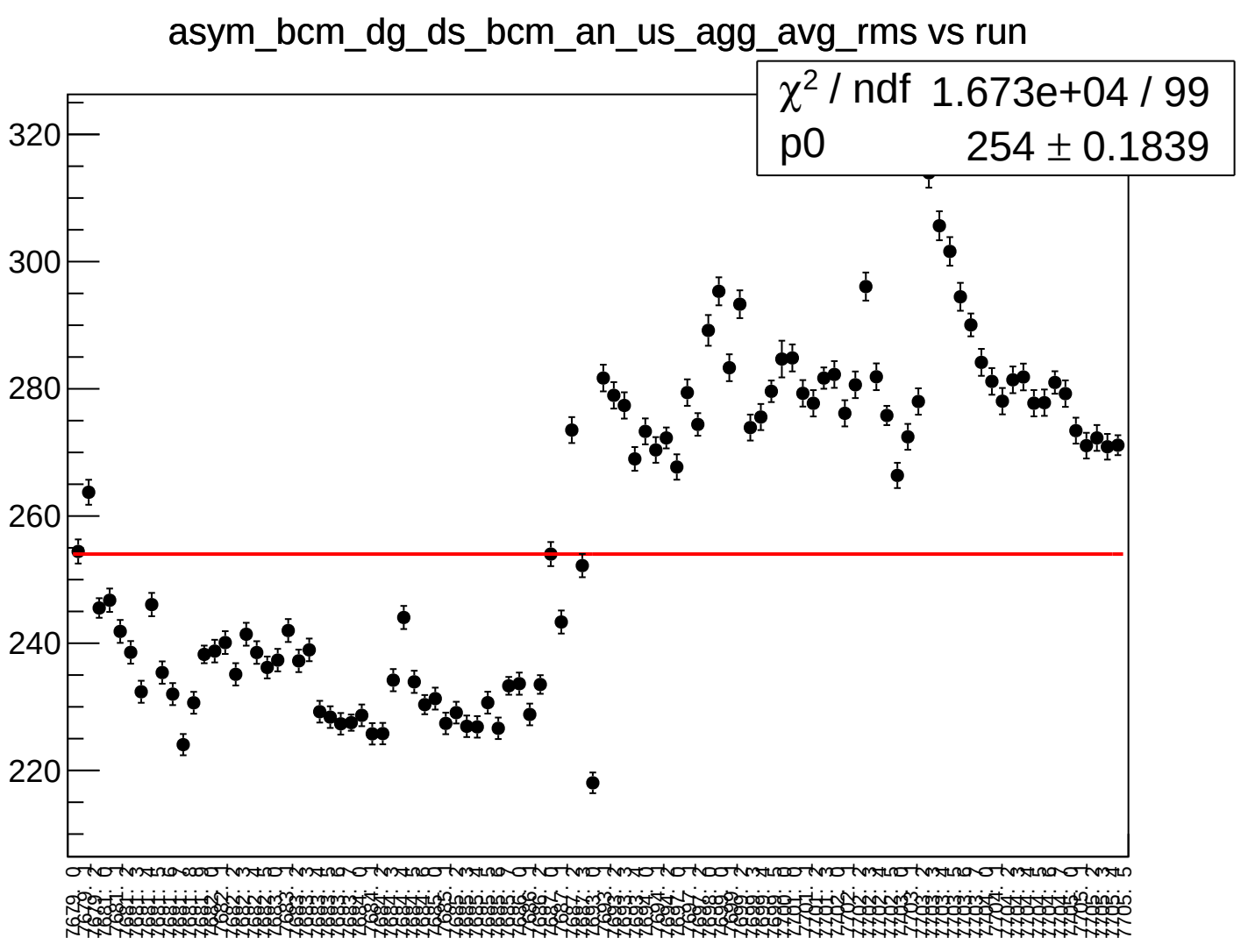

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 89.6 / 99
p0 −9.246 ± 23.47
800
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 100
Mean −240.9
Std Dev 0
2
1
0
−1
−2

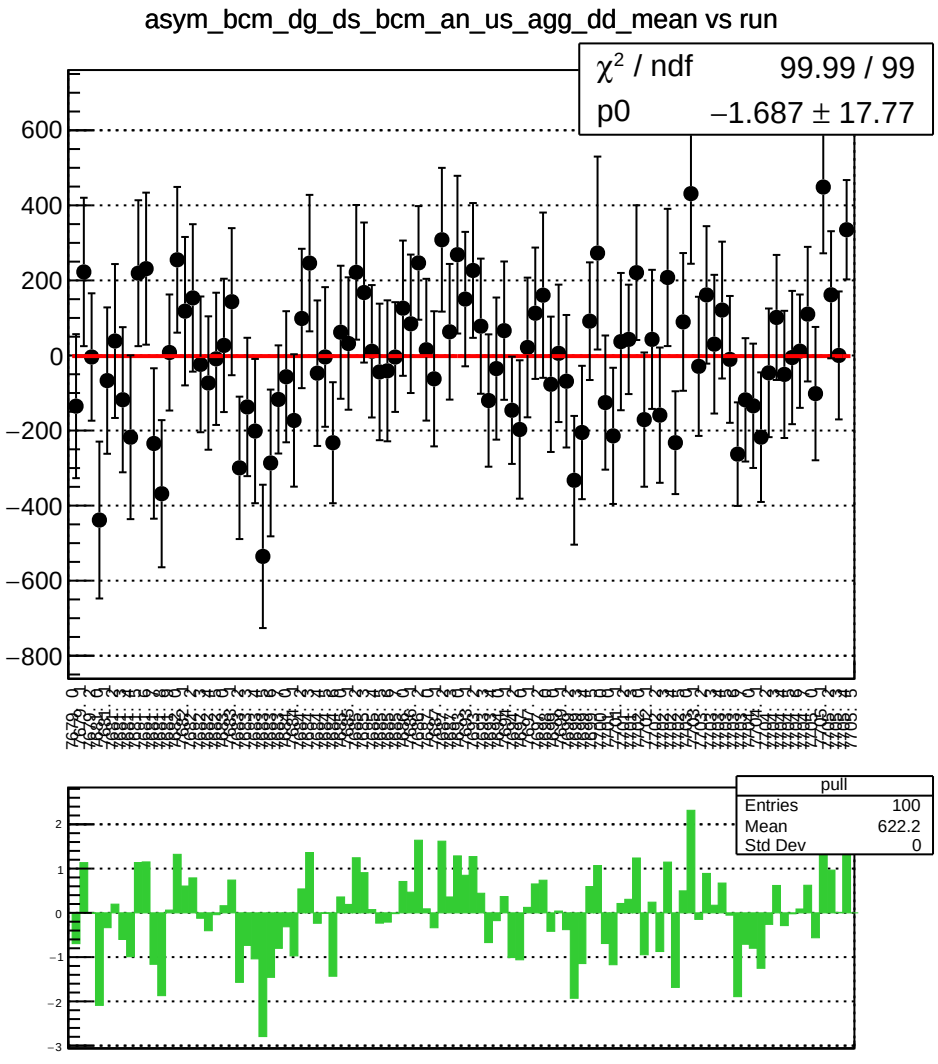

pull1D
Entries 100
Mean −0.00462
Std Dev 0.9466
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

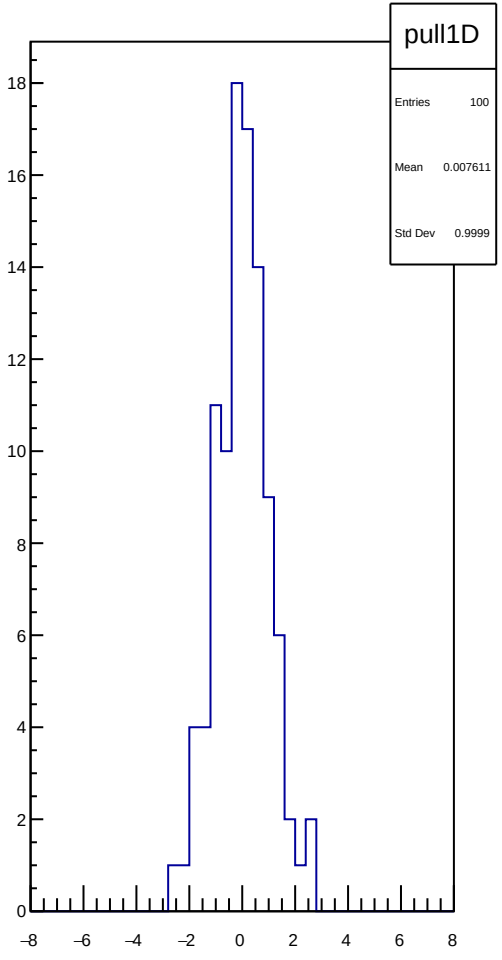

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3959 / 99
p0 23 ± 0.01659
27
26
25
24
23
22
21

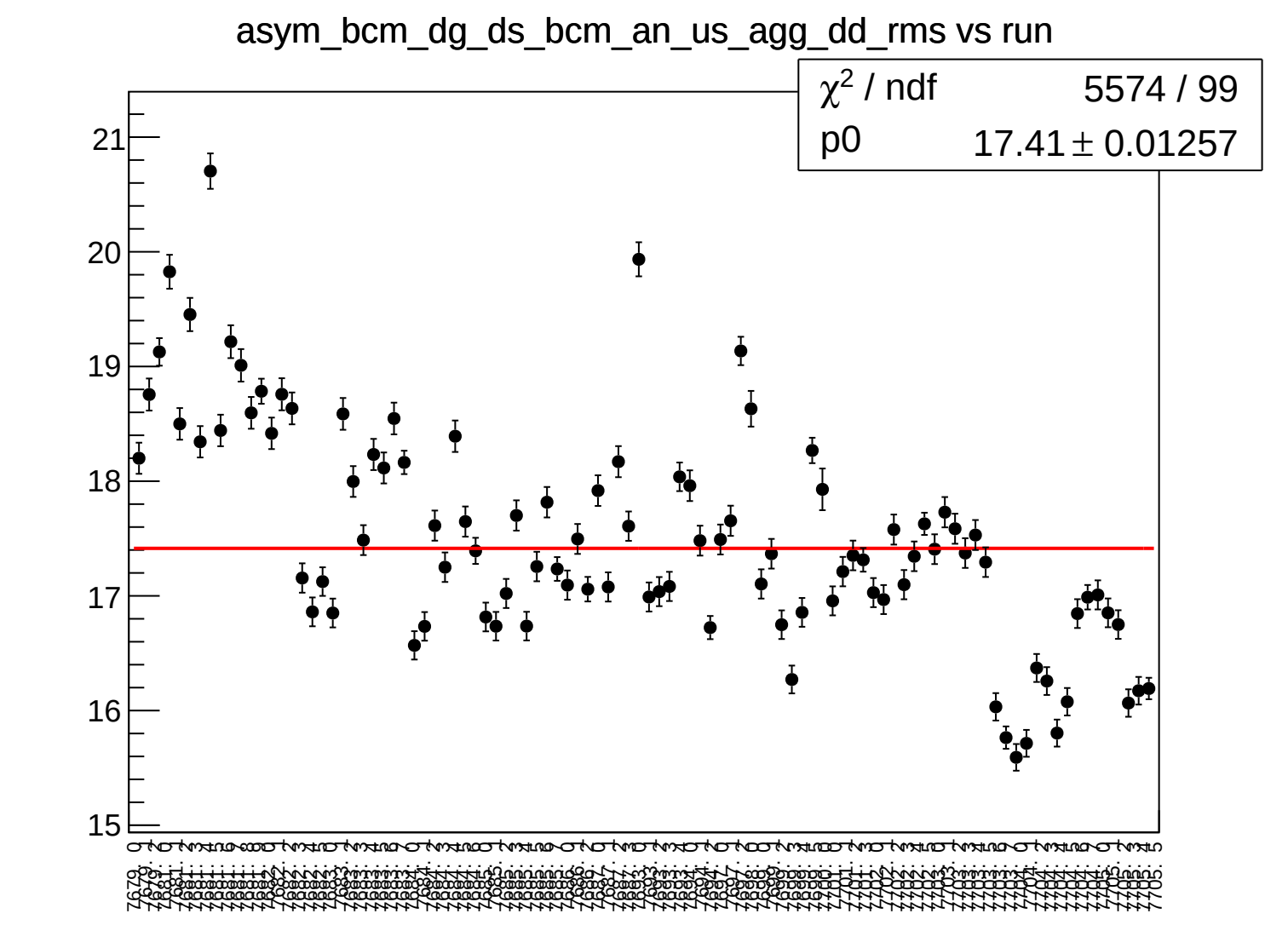

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 20.3 / 99
p0 83.45 ± 260
pull
Entries 100
Mean 568.5
Std Dev 0

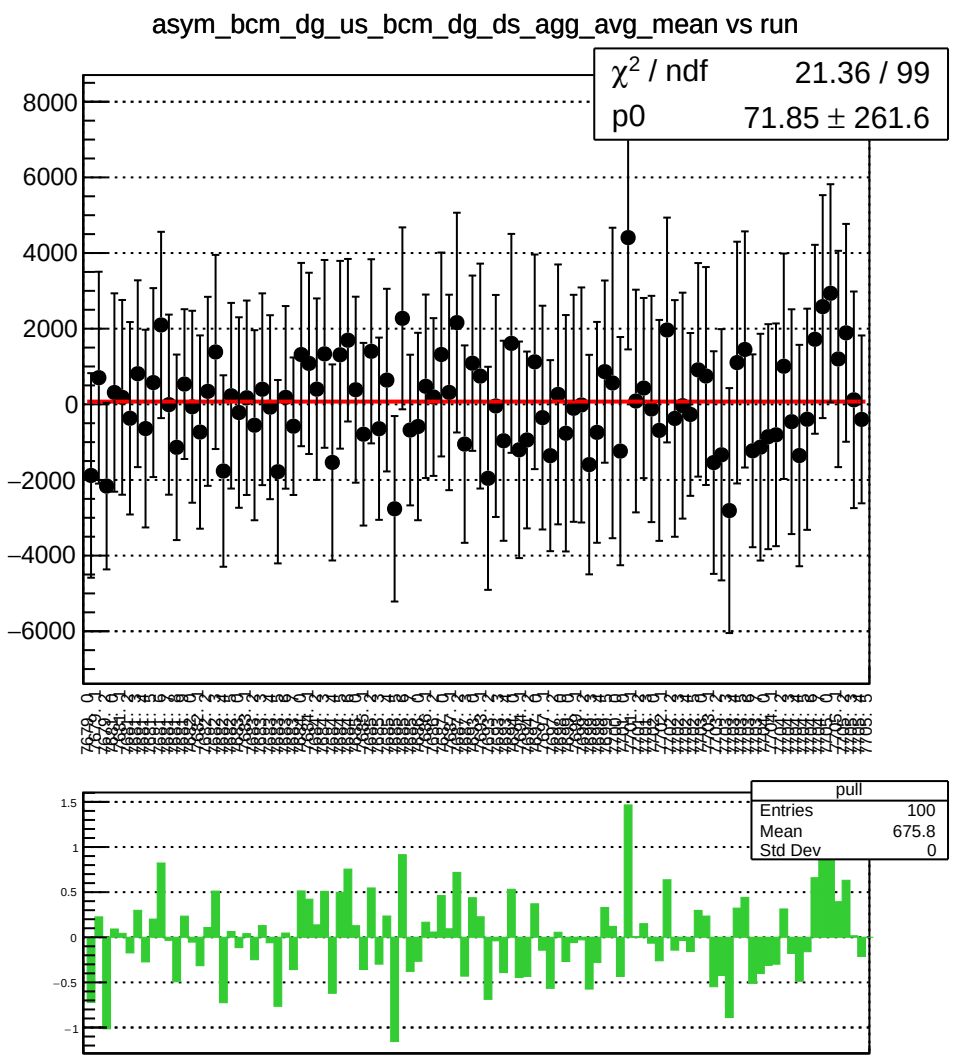

pull1D
Entries 100
Mean 0.001805
Std Dev 0.4505

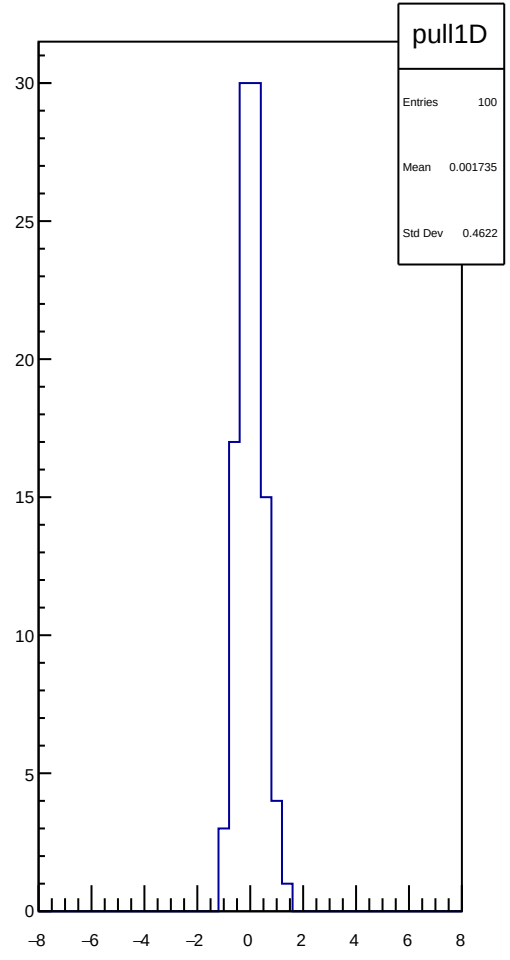

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.673e+04 / 99
p0 254 ± 0.1839
320
300
280
260
240
220

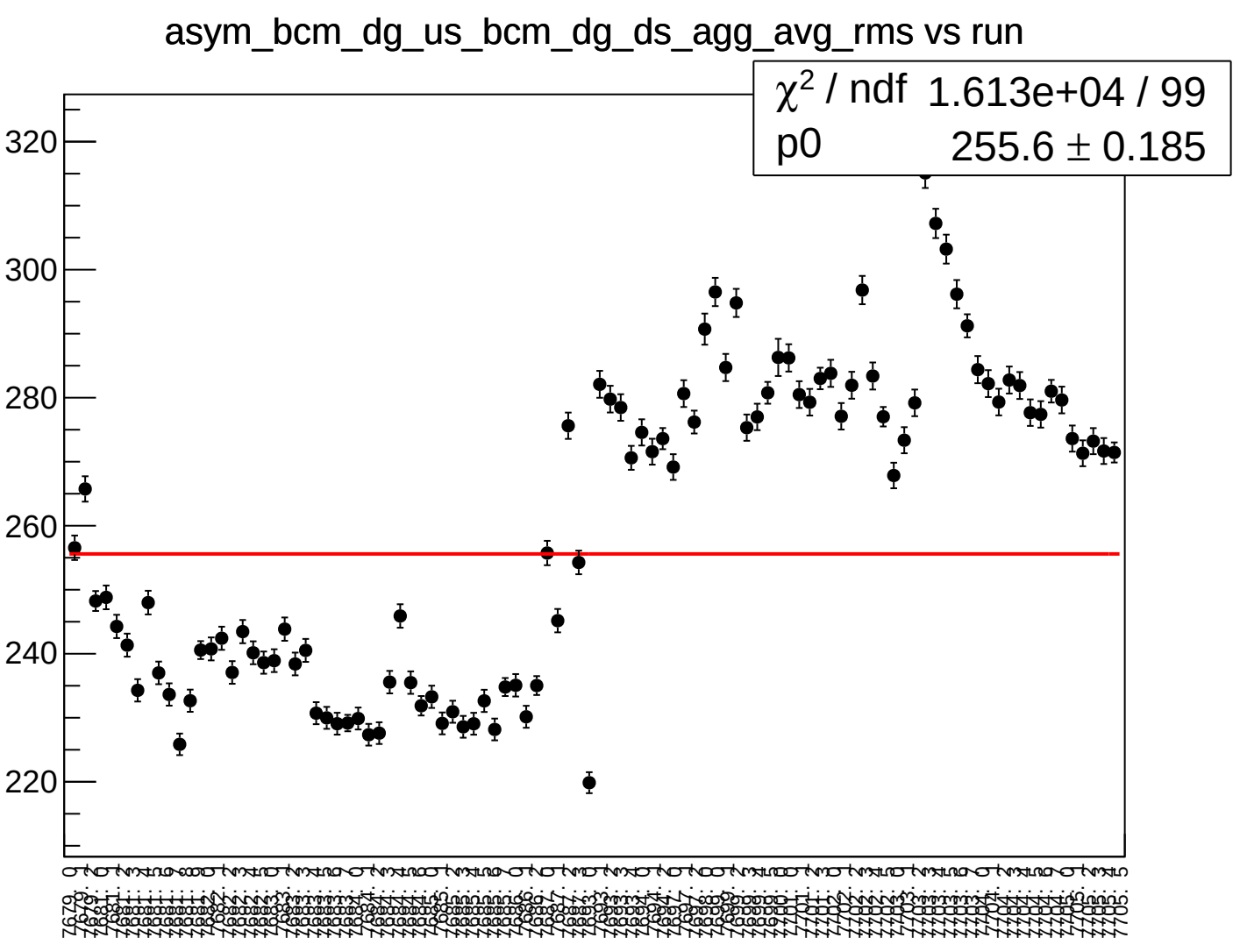

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 99.99 / 99
p0 −1.687 ± 17.77
600
400
200
0
−200
−400
−600
−800
pull
Entries 100
Mean 622.2
Std Dev 0
2
1
0
−1
−2
−3

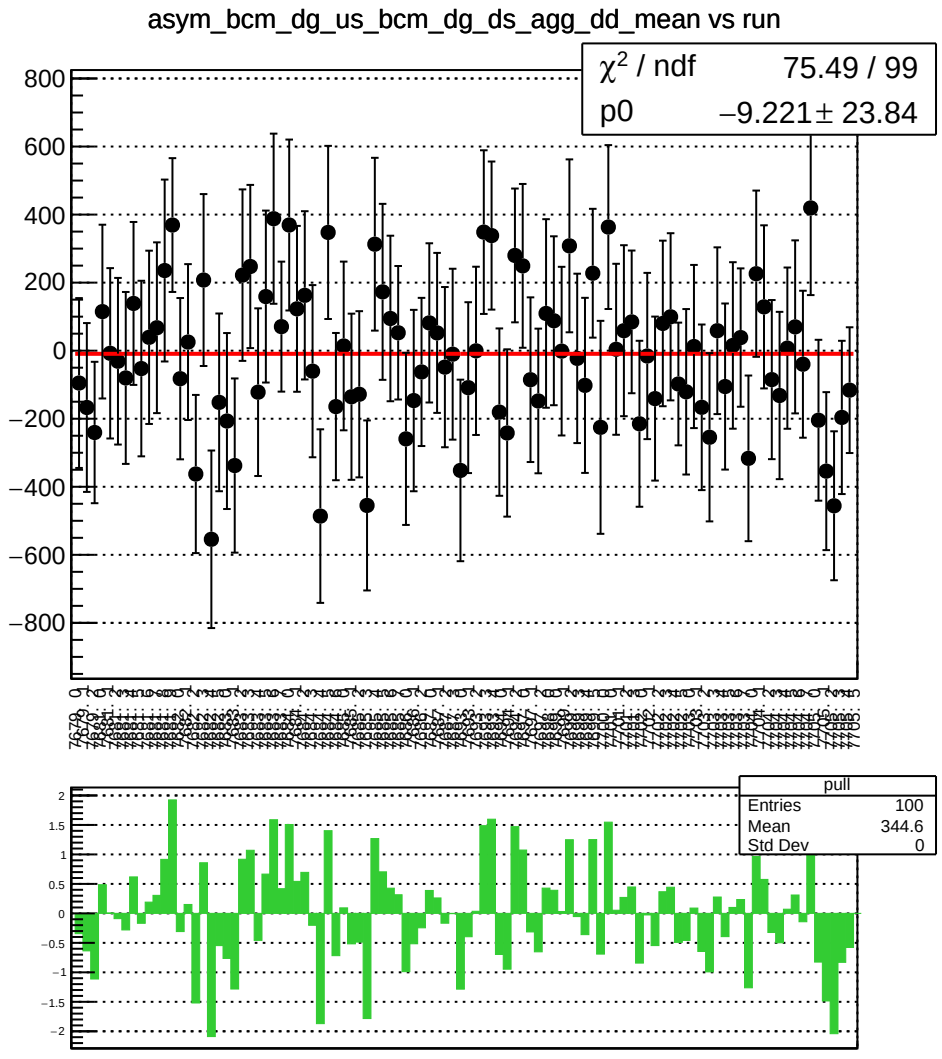

pull1D
Entries 100
Mean 0.007611
Std Dev 0.9999
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

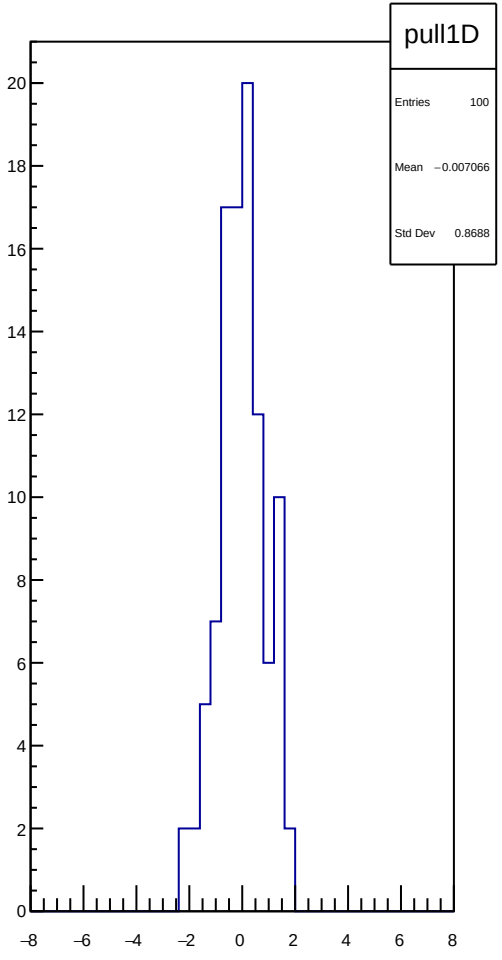

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 5574 / 99
p0 17.41 ± 0.01257
21
20
19
18
17
16
15

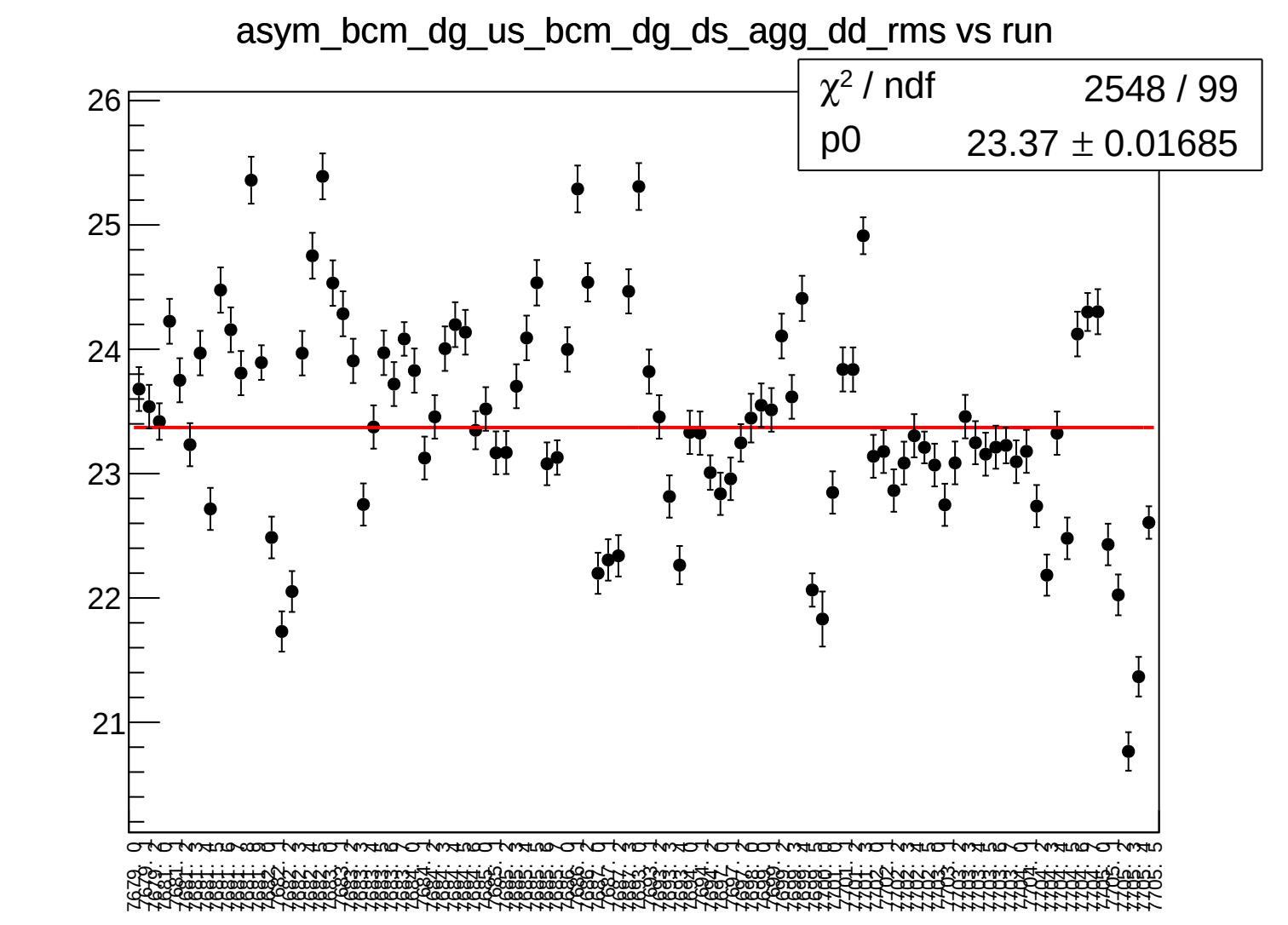

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 21.36 / 99
p0 71.85 ± 261.6
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 675.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1

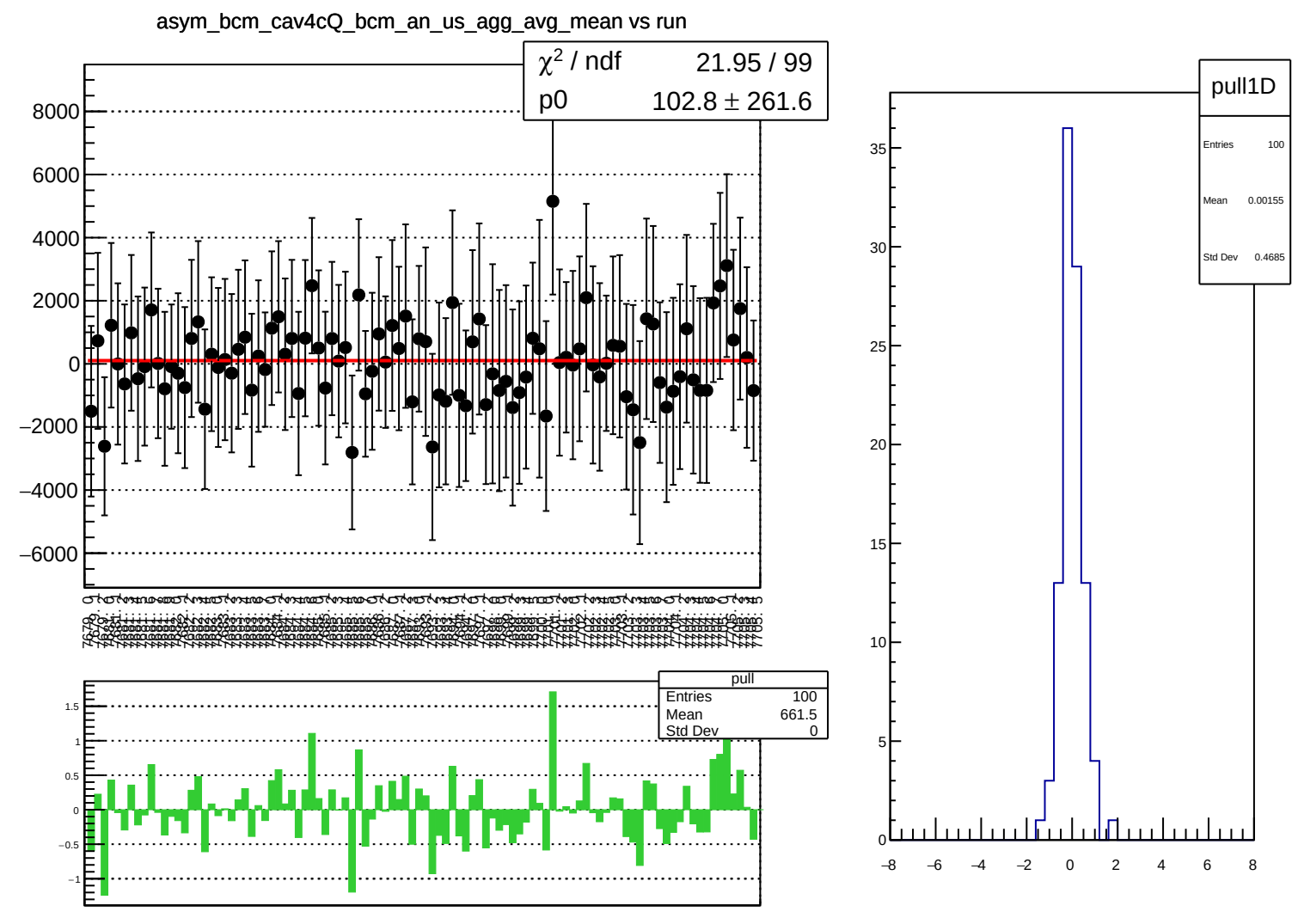

pull1D
Entries 100
Mean 0.001735
Std Dev 0.4622
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

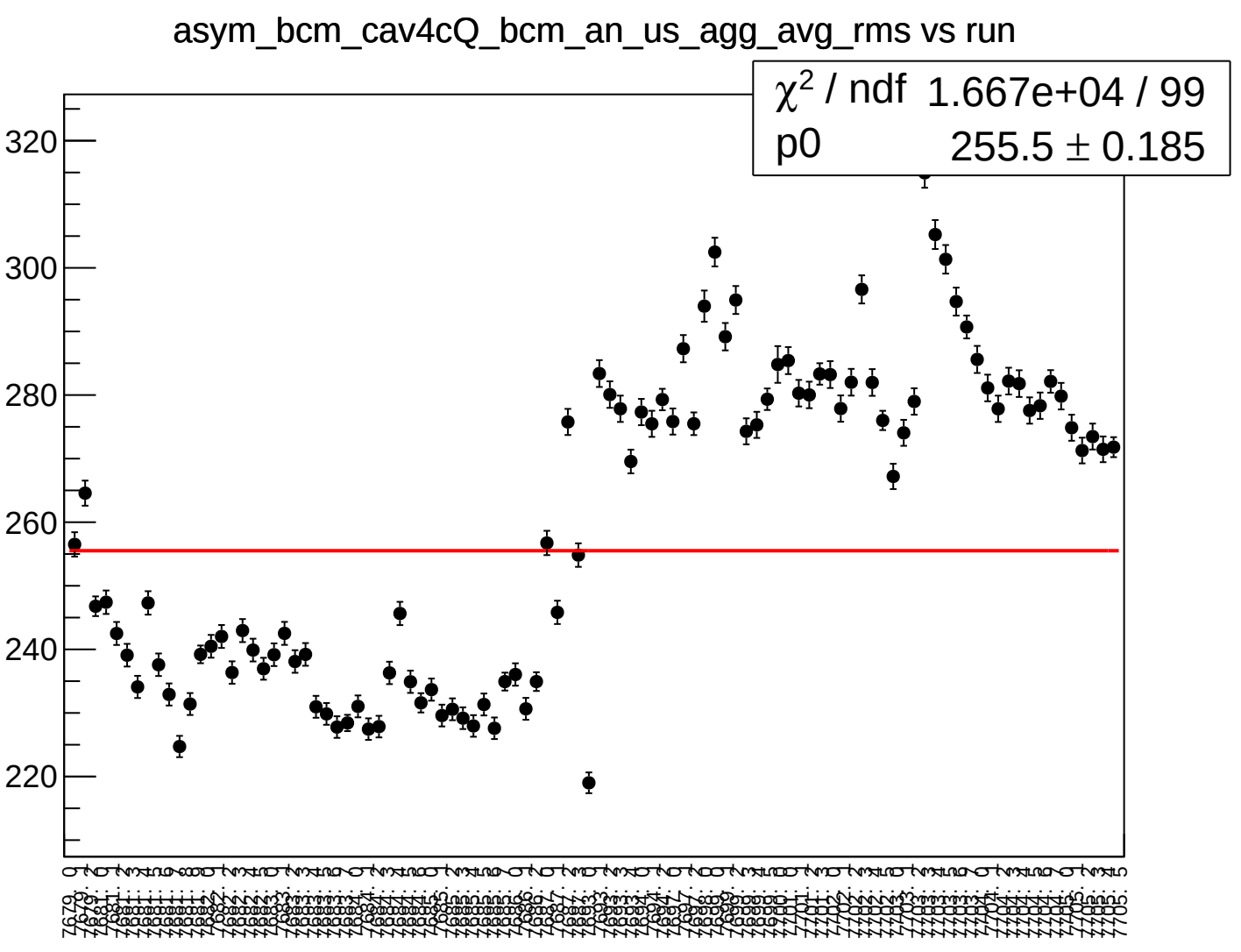

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.613e+04 / 99
p0 255.6 ± 0.185
320
300
280
260
240
220

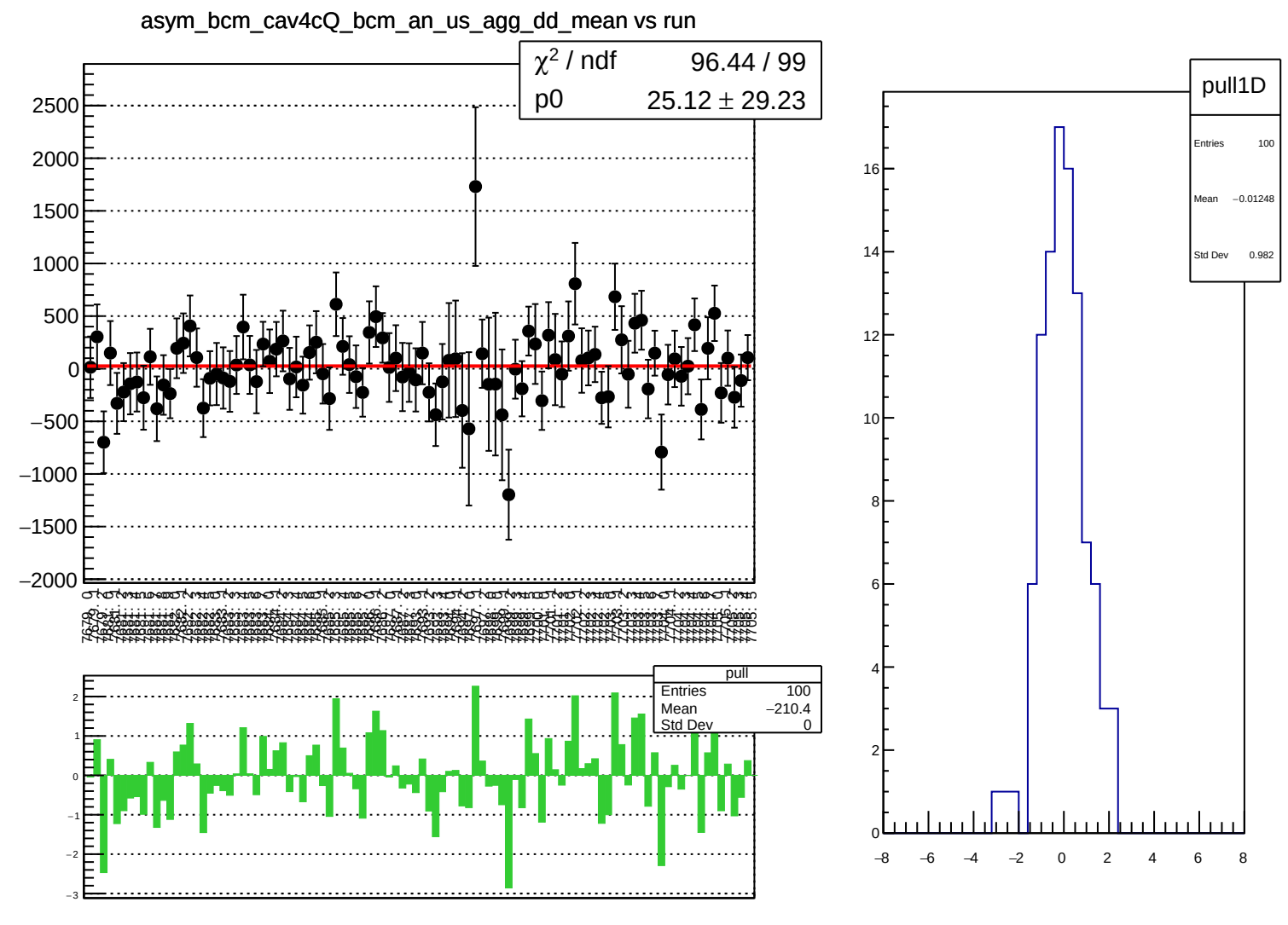

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 75.49 / 99
p0 −9.221 ± 23.84
pull
Entries 100
Mean 344.6
Std Dev 0

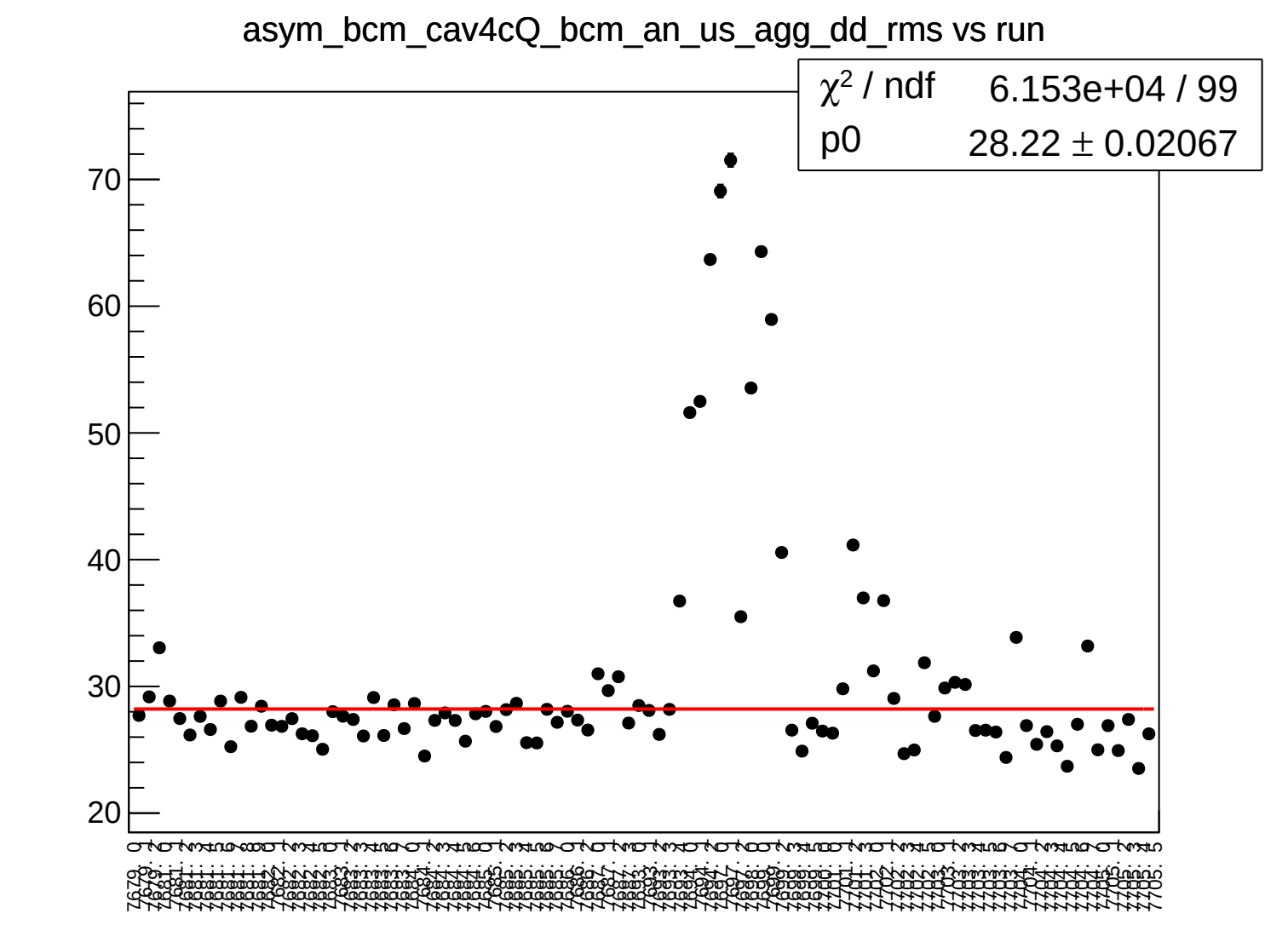

pull1D
Entries 100
Mean −0.007066
Std Dev 0.8688

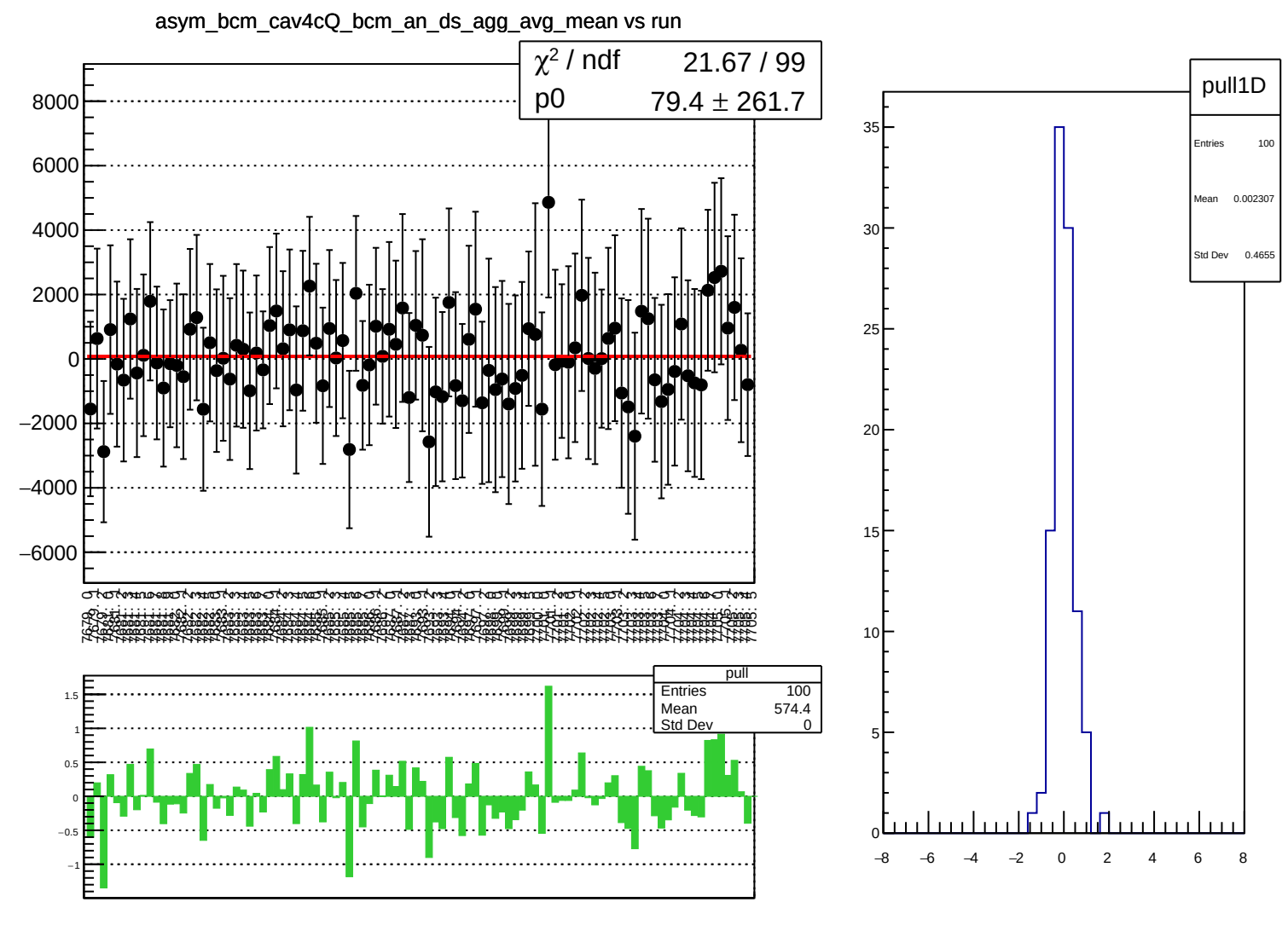

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2548 / 99
p0 23.37 ± 0.01685
26
25
24
23
22
21

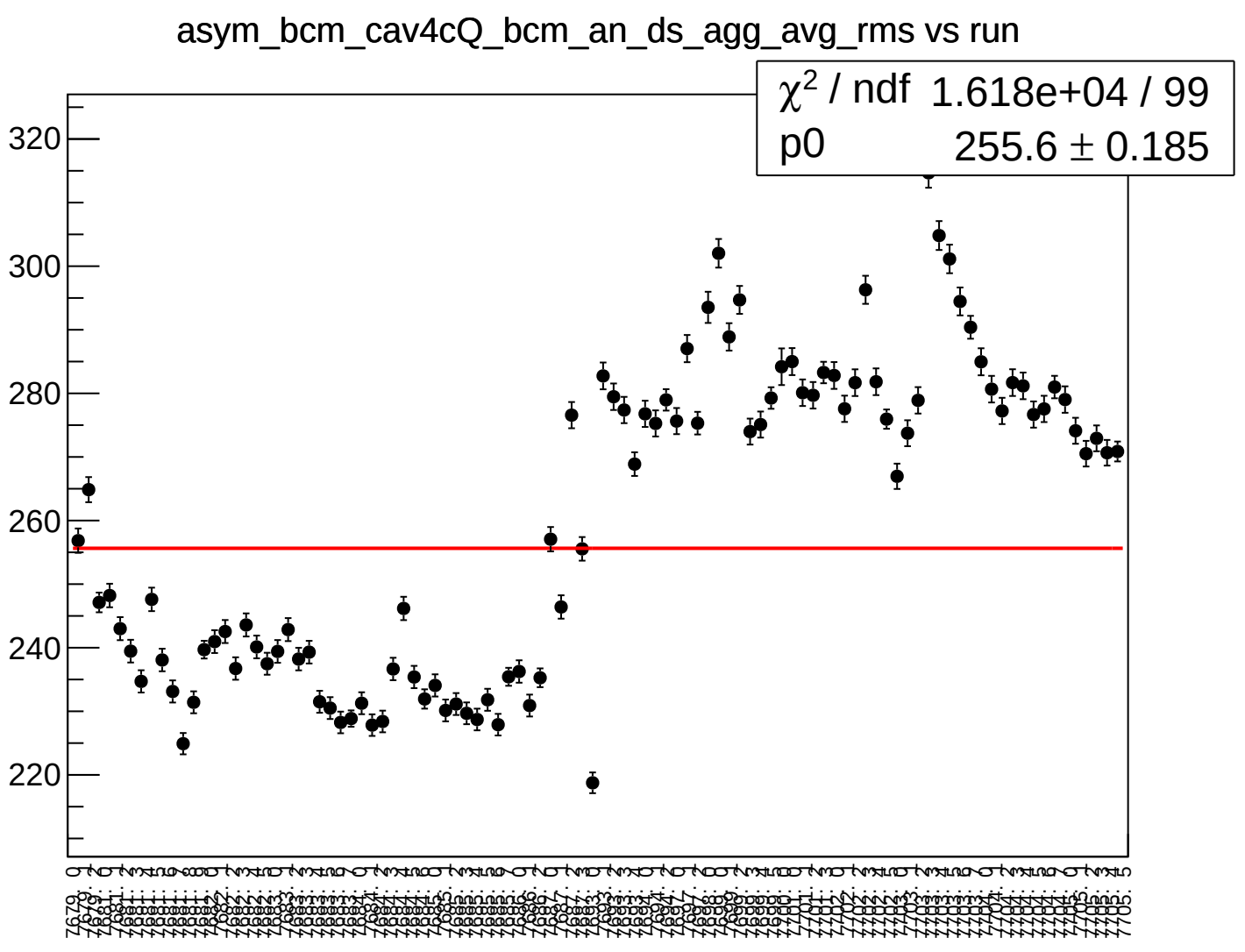

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 21.95 / 99
p0 102.8 ± 261.6
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 661.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 100
Mean 0.00155
Std Dev 0.4685
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

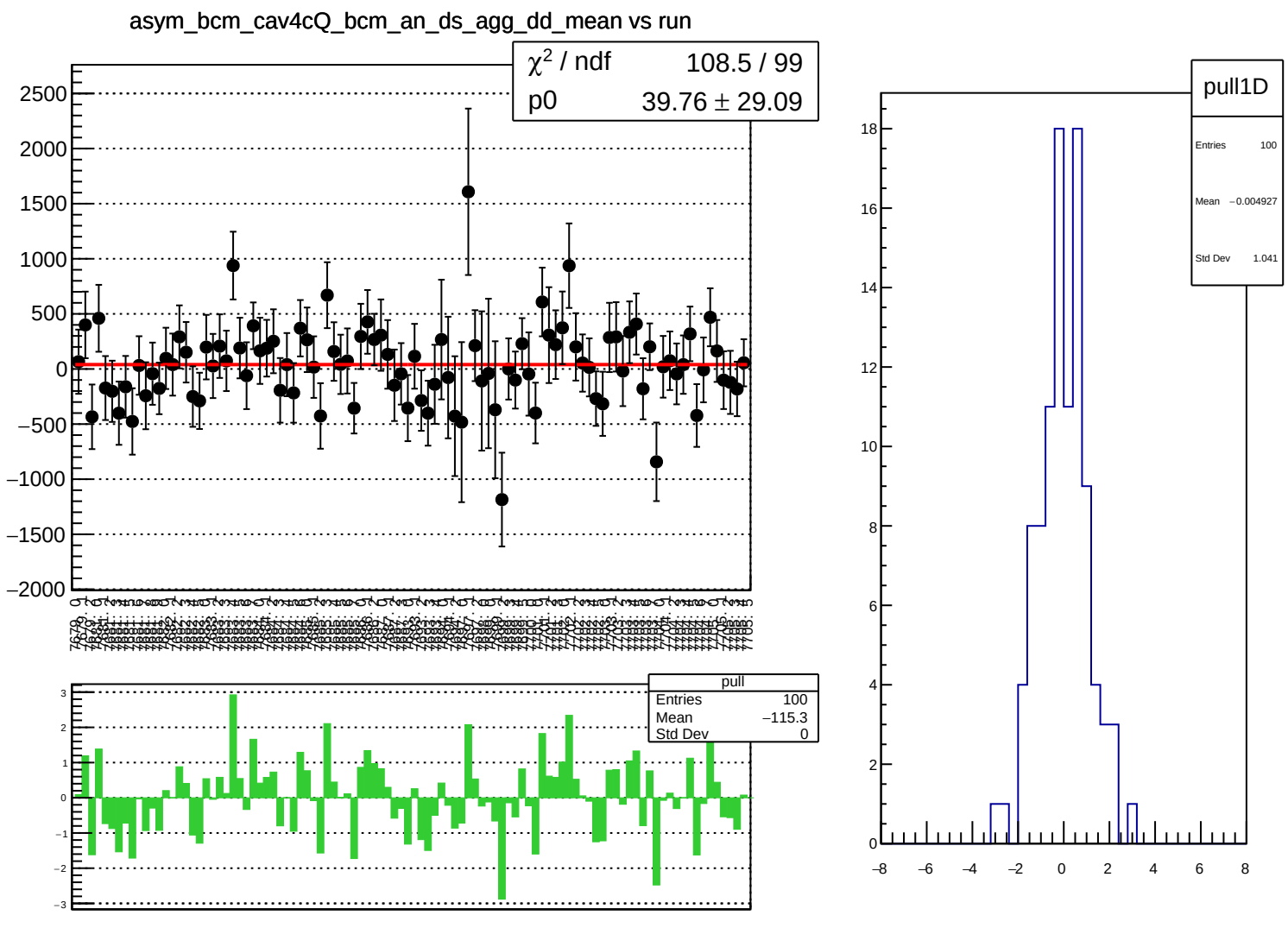

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.667e+04 / 99
p0 255.5 ± 0.185
320
300
280
260
240
220

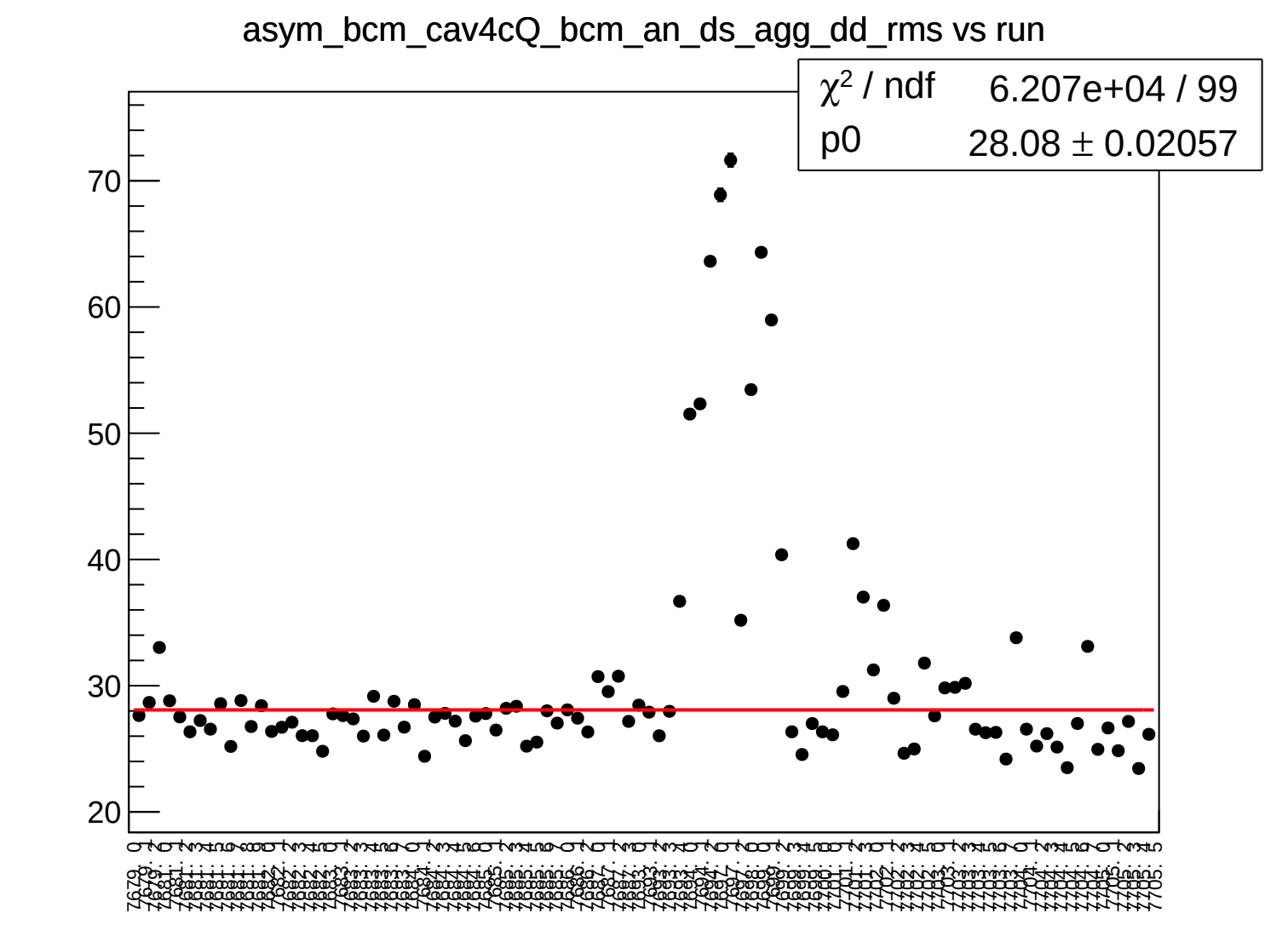

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 96.44 / 99
p0 25.12 ± 29.23
pull
Entries 100
Mean −210.4
Std Dev 0
pull1D
Entries 100
Mean −0.01248
Std Dev 0.982

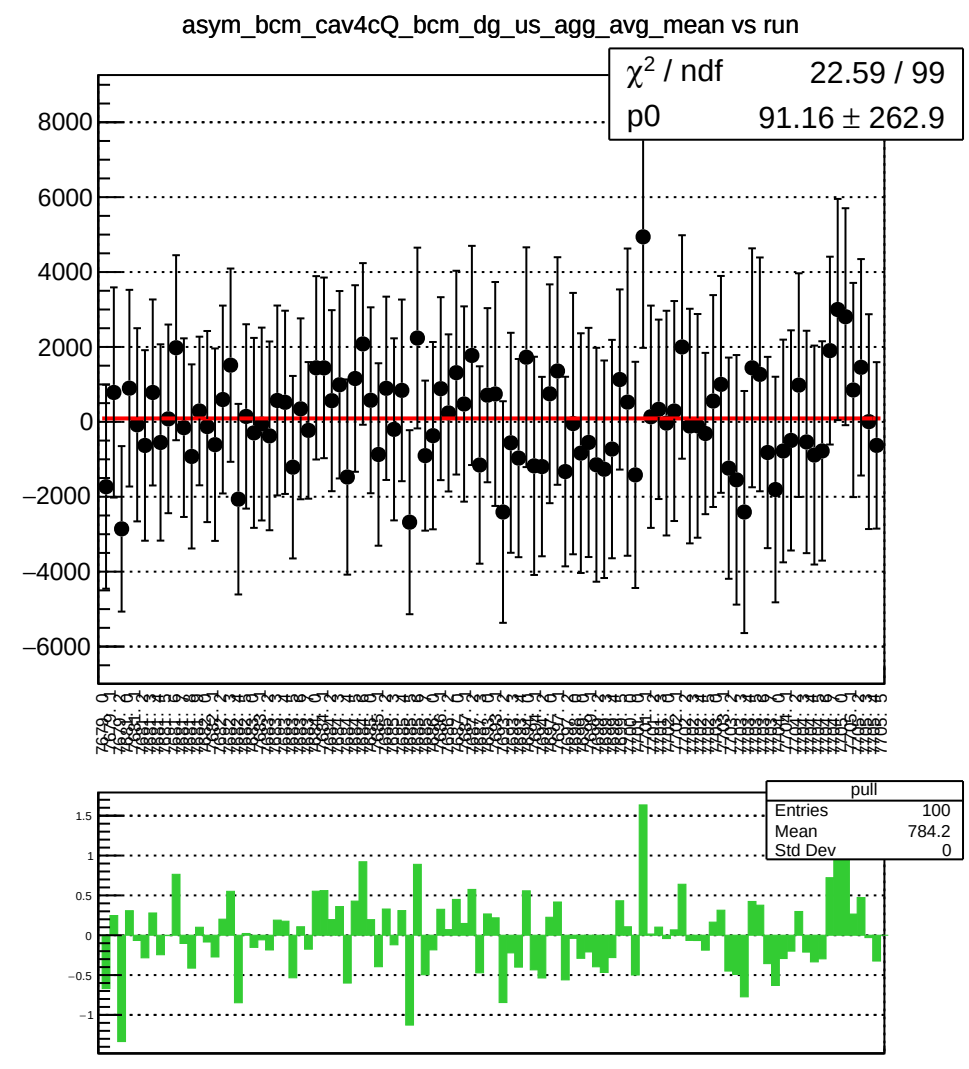

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 6.153e+04 / 99
p0 28.22 ± 0.02067
70
60
50
40
30
20

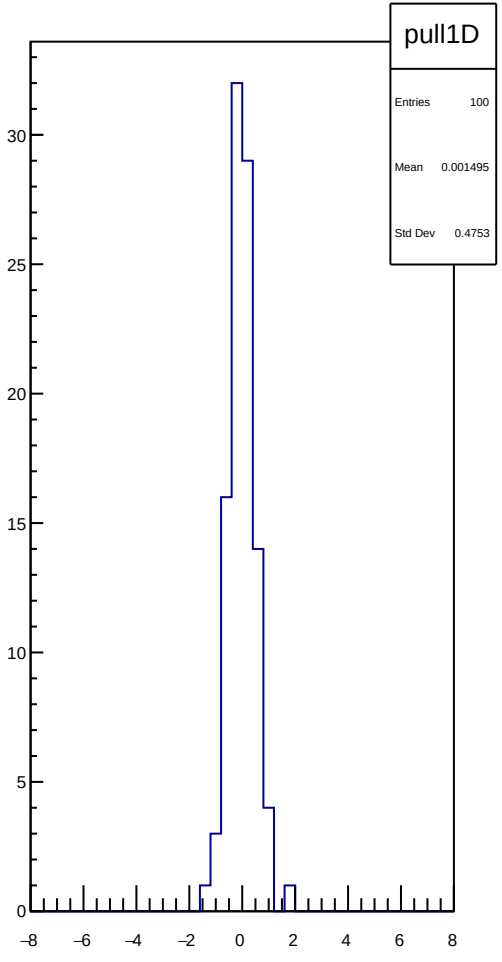

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 21.67 / 99
p0 79.4 ± 261.7
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 574.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 100
Mean 0.002307
Std Dev 0.4655
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

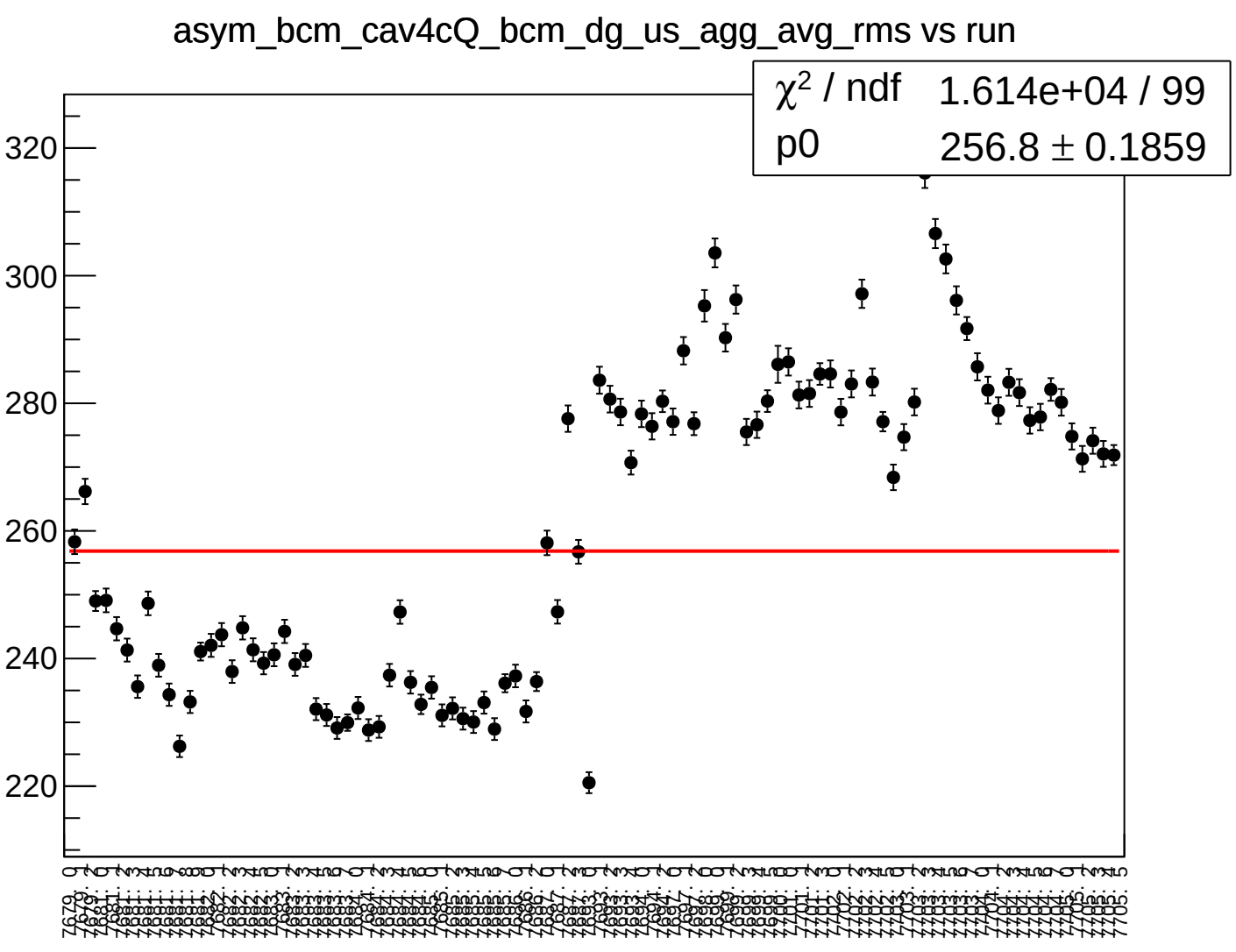

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.618e+04 / 99
p0 255.6 ± 0.185
320
300
280
260
240
220

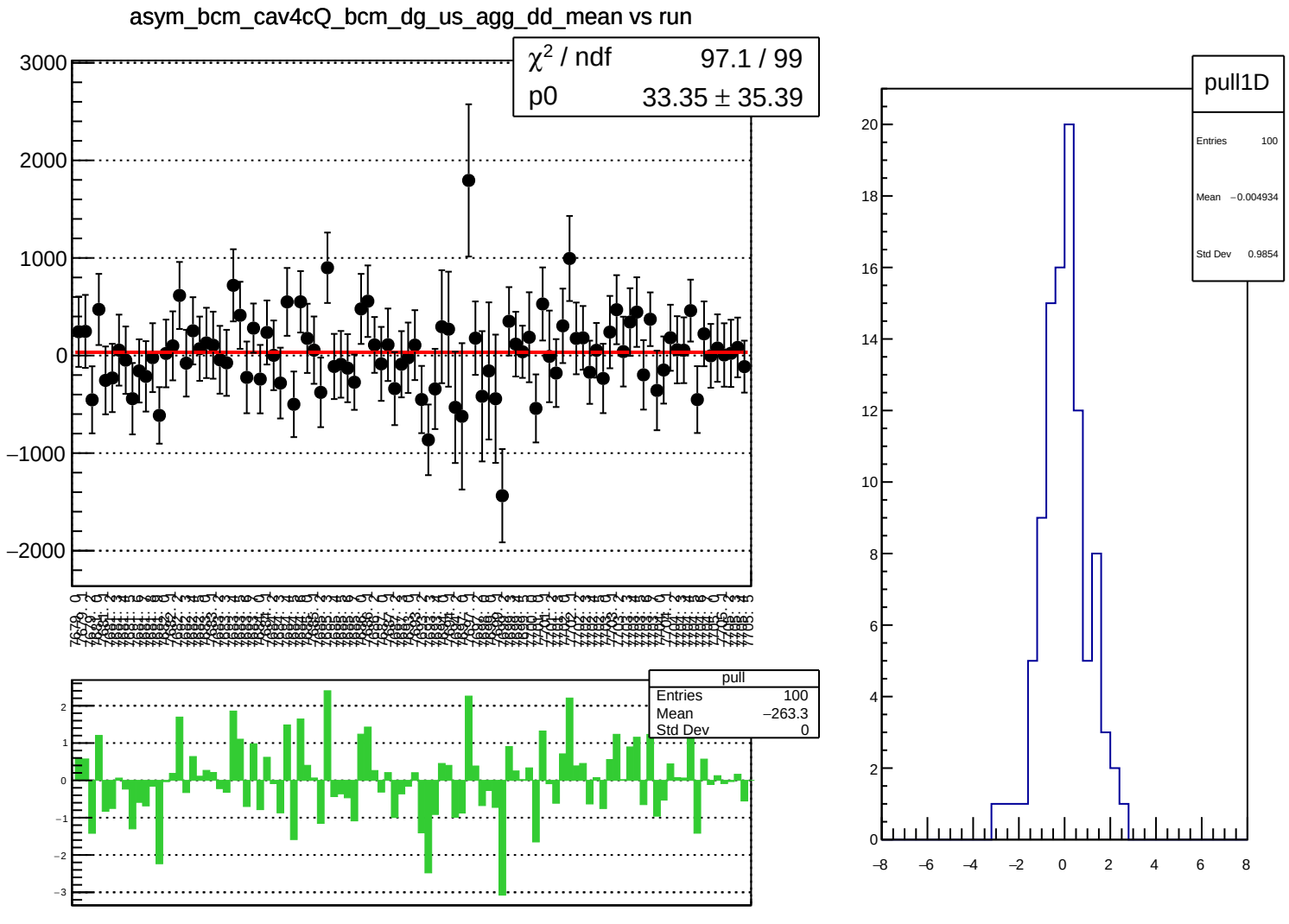

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 108.5 / 99
p0 39.76 ± 29.09
pull
Entries 100
Mean −115.3
Std Dev 0
pull1D
Entries 100
Mean −0.004927
Std Dev 1.041

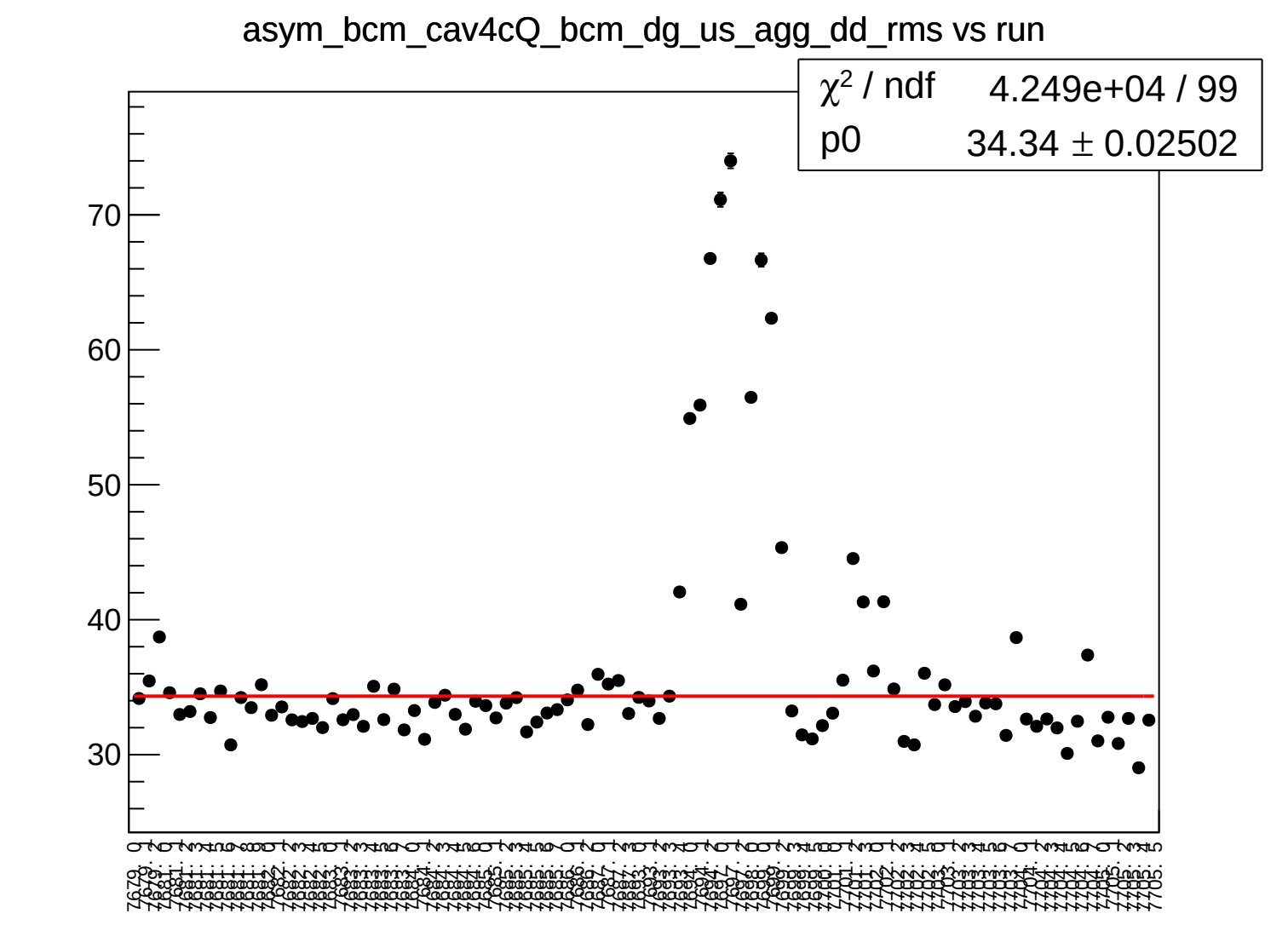

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ^2 / ndf 6.207e+04 / 99
p0 28.08 ± 0.02057
70
60
50
40
30
20

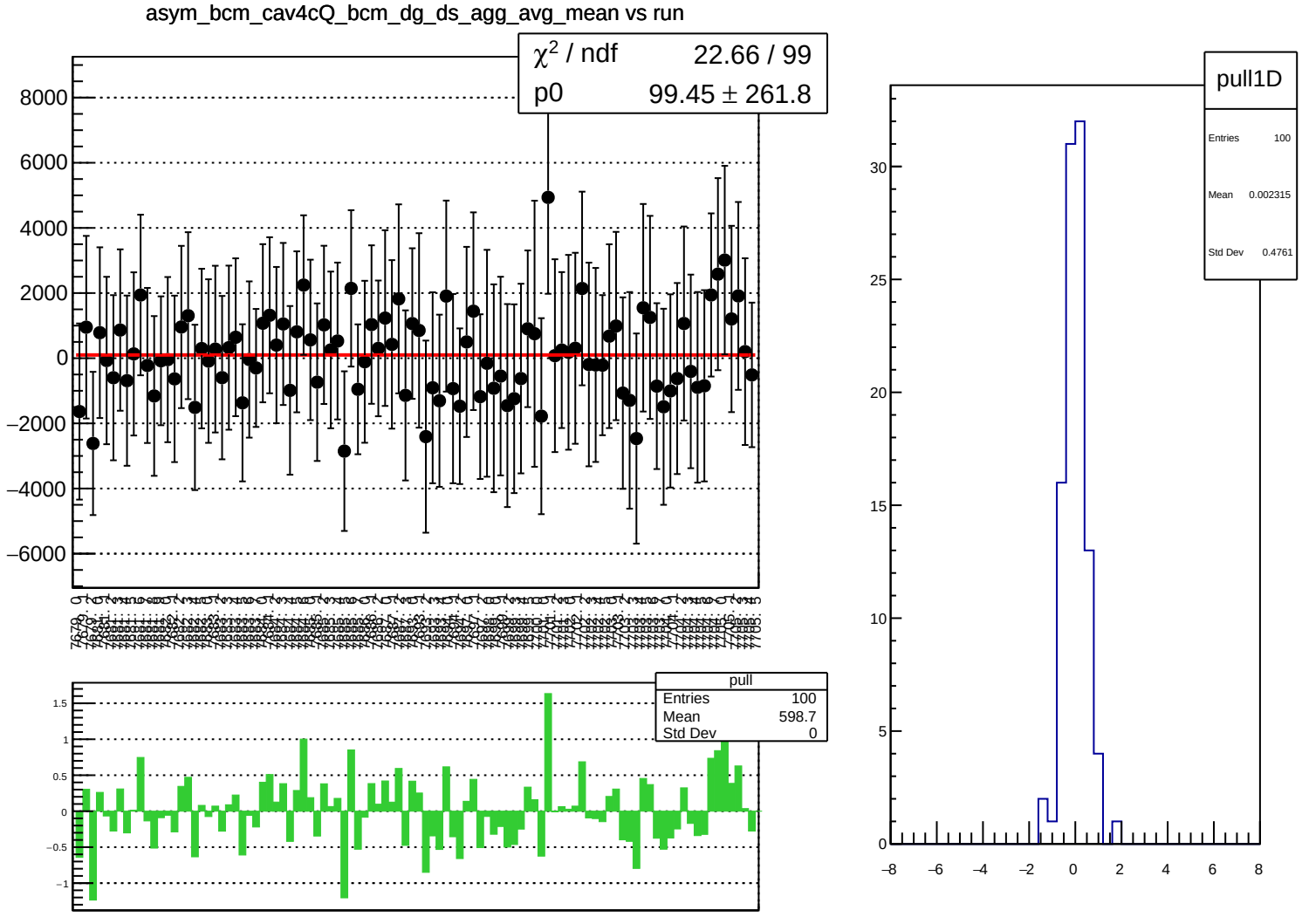

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 22.59 / 99
p0 91.16 ± 262.9
pull
Entries 100
Mean 784.2
Std Dev 0

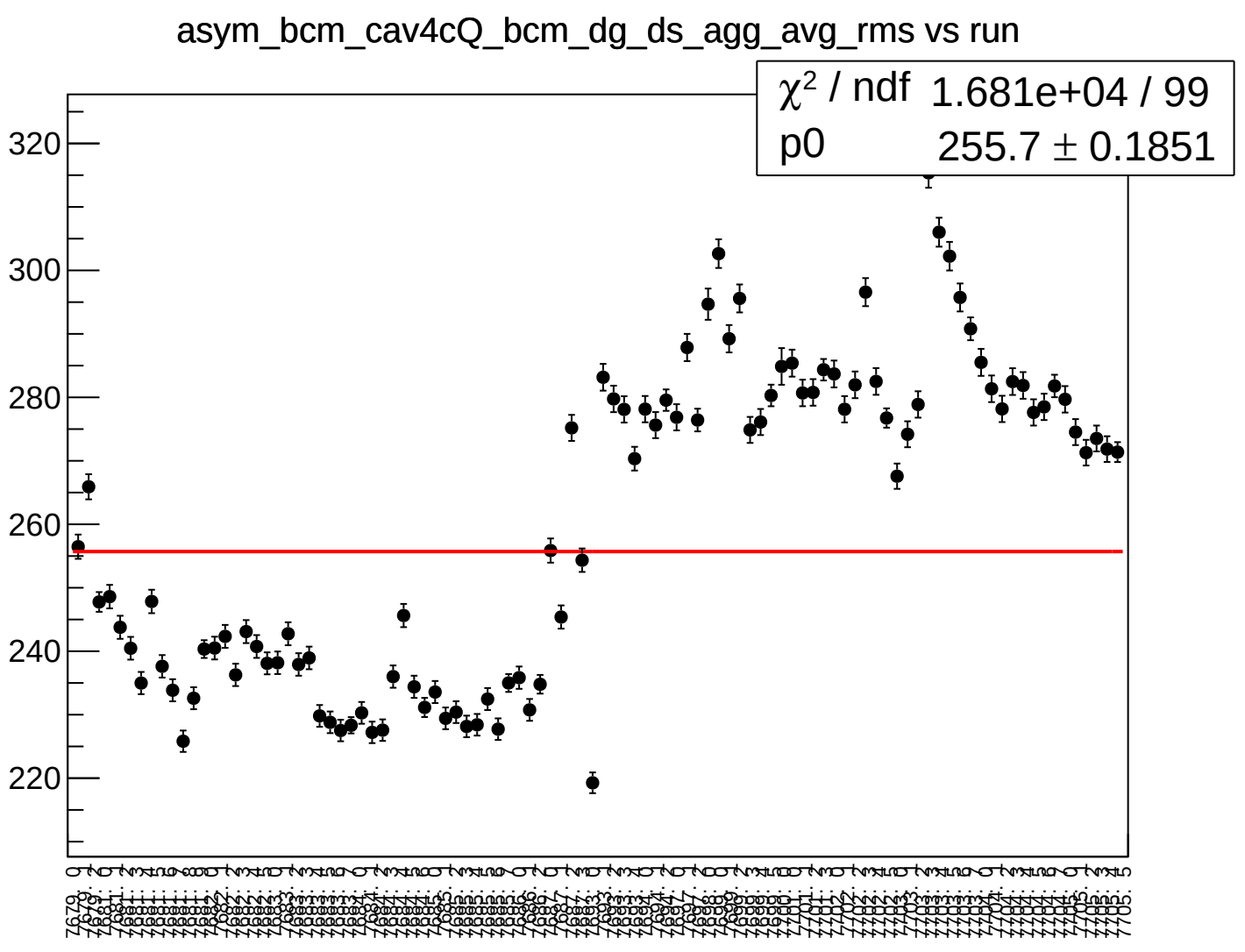

pull1D
Entries 100
Mean 0.001495
Std Dev 0.4753

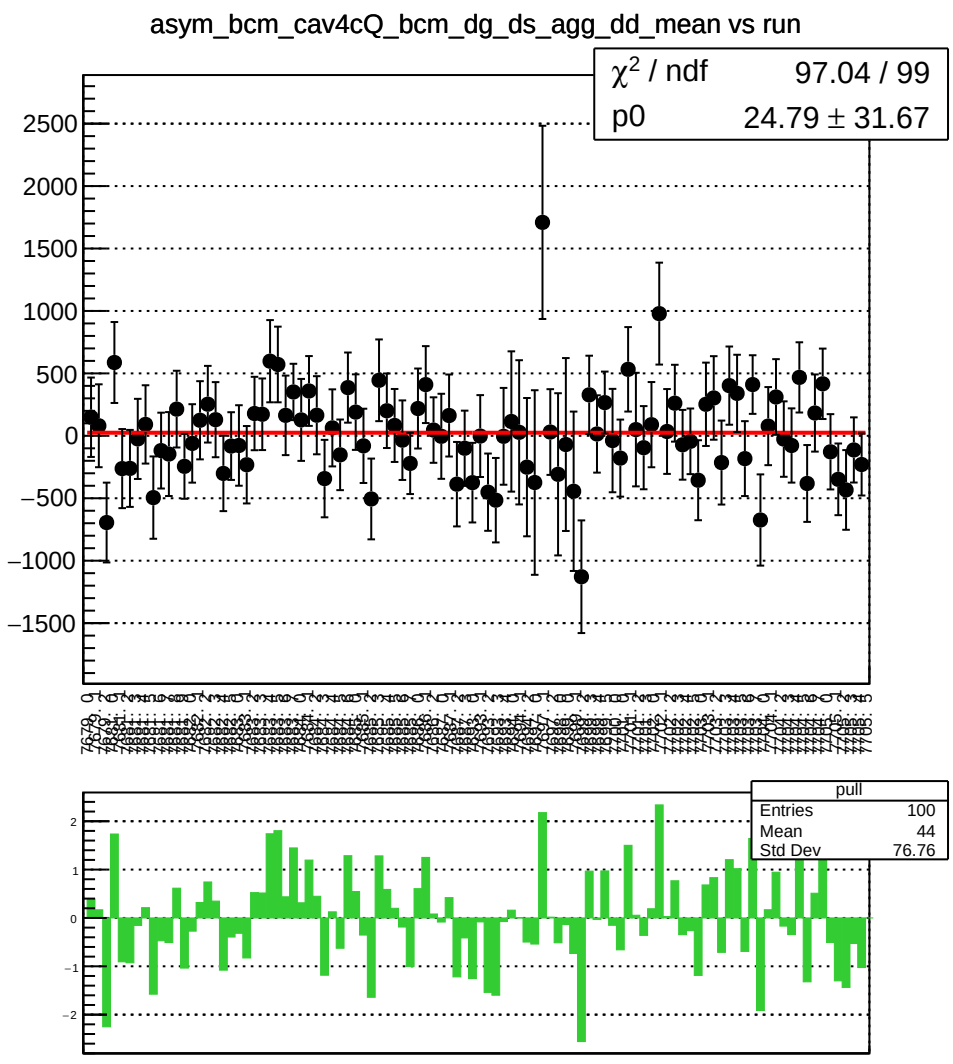

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 1.614e+04 / 99
p0 256.8 ± 0.1859
320
300
280
260
240
220

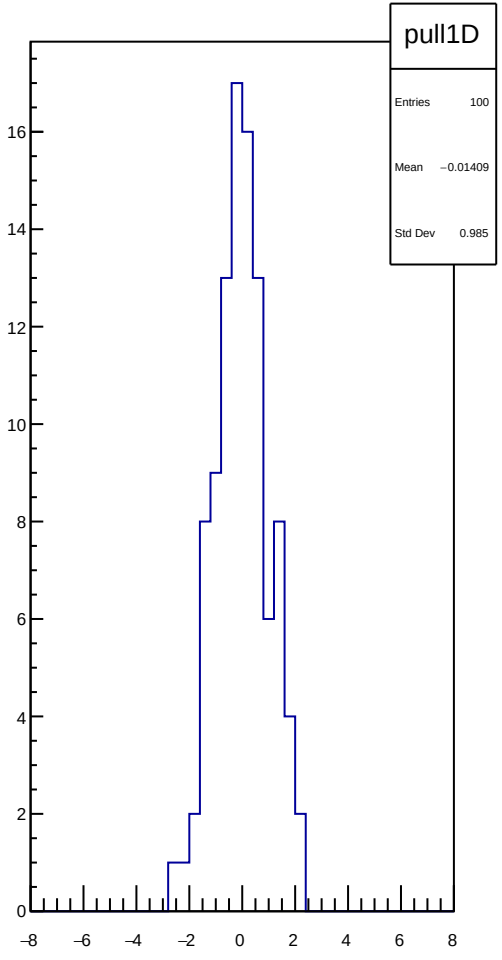

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 97.1 / 99
p0 33.35 ± 35.39
pull
Entries 100
Mean −263.3
Std Dev 0
pull1D
Entries 100
Mean −0.004934
Std Dev 0.9854

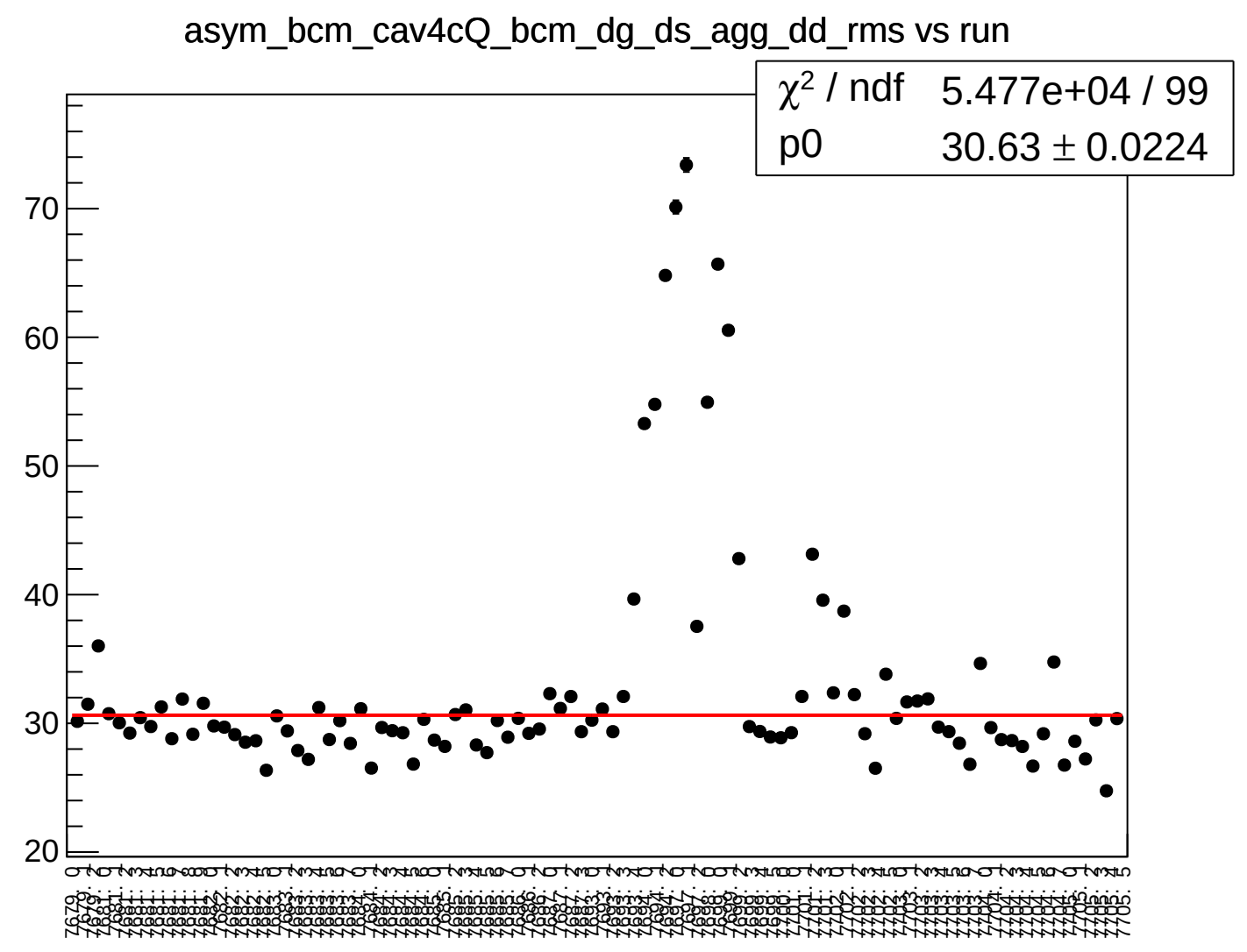

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 4.249e+04 / 99
p0 34.34 ± 0.02502
70
60
50
40
30

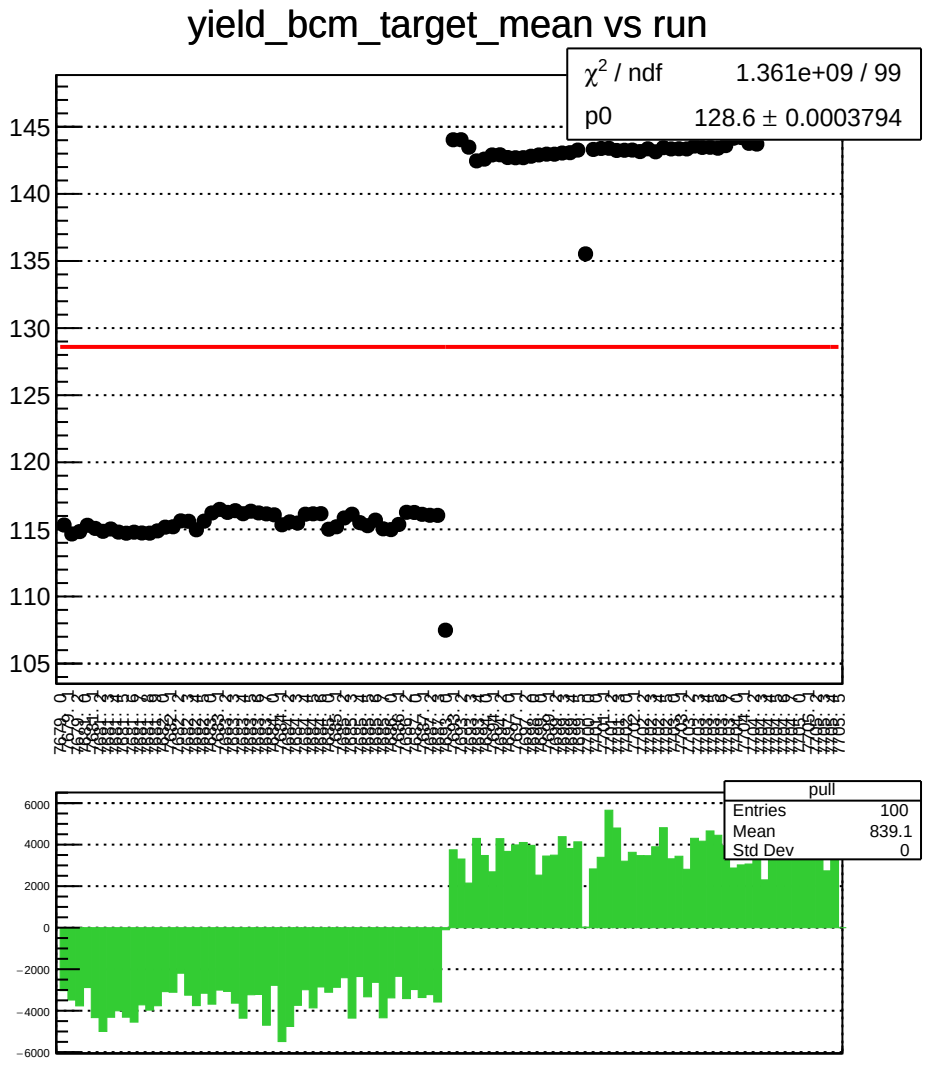

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 22.66 / 99
p0 99.45 ± 261.8
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 598.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 100
Mean 0.002315
Std Dev 0.4761
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

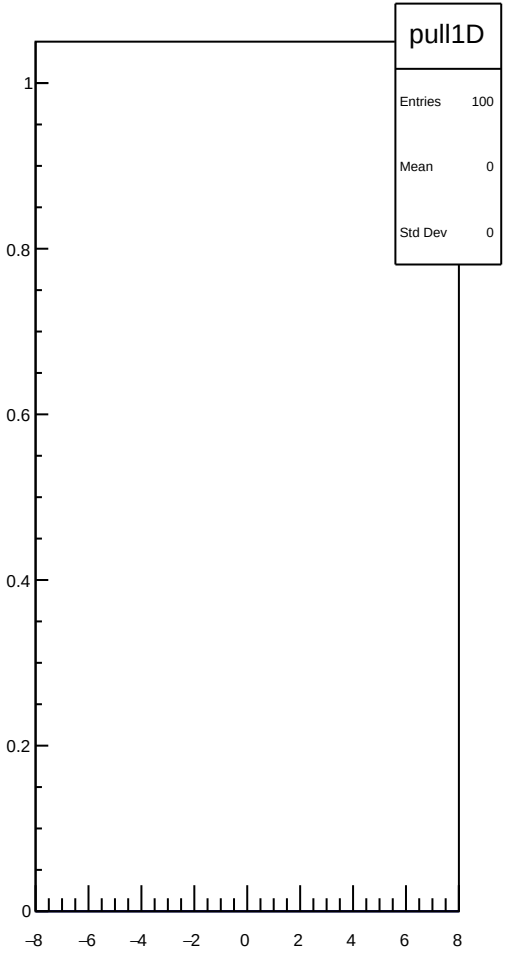

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.681e+04 / 99
p0 255.7 ± 0.1851
320
300
280
260
240
220

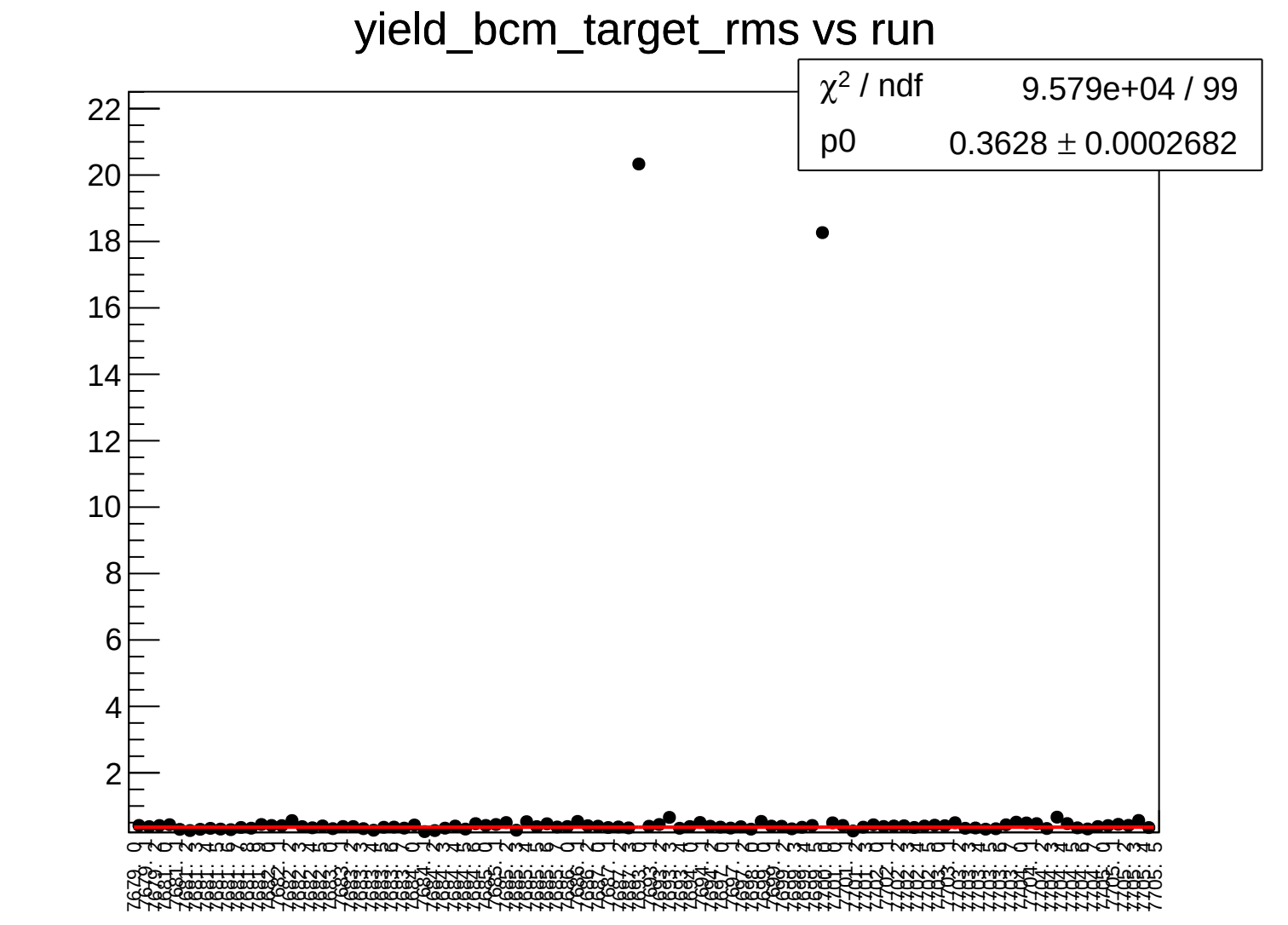

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 97.04 / 99
p0 24.79 ± 31.67
pull
Entries 100
Mean 44
Std Dev 76.76

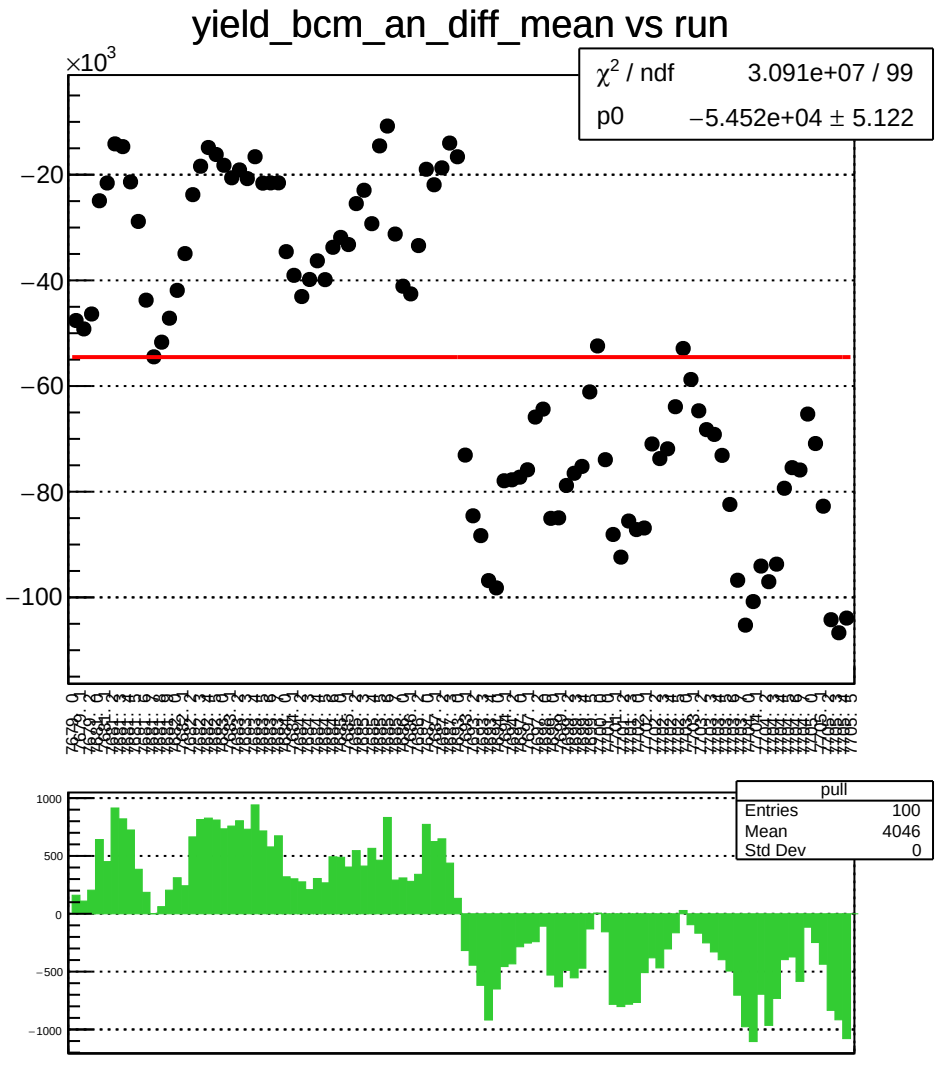

pull1D
Entries 100
Mean −0.01409
Std Dev 0.985

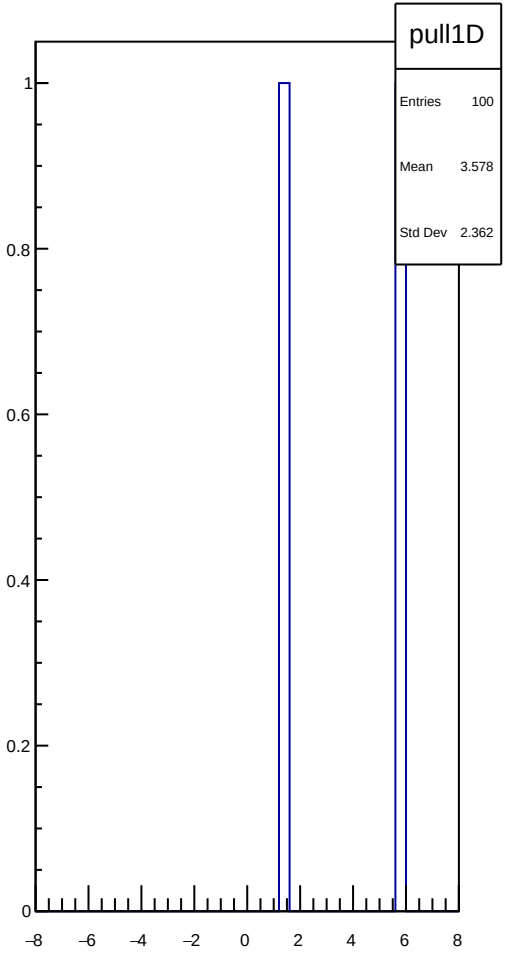

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 5.477e+04 / 99
p0 30.63 ± 0.0224
70
60
50
40
30
20

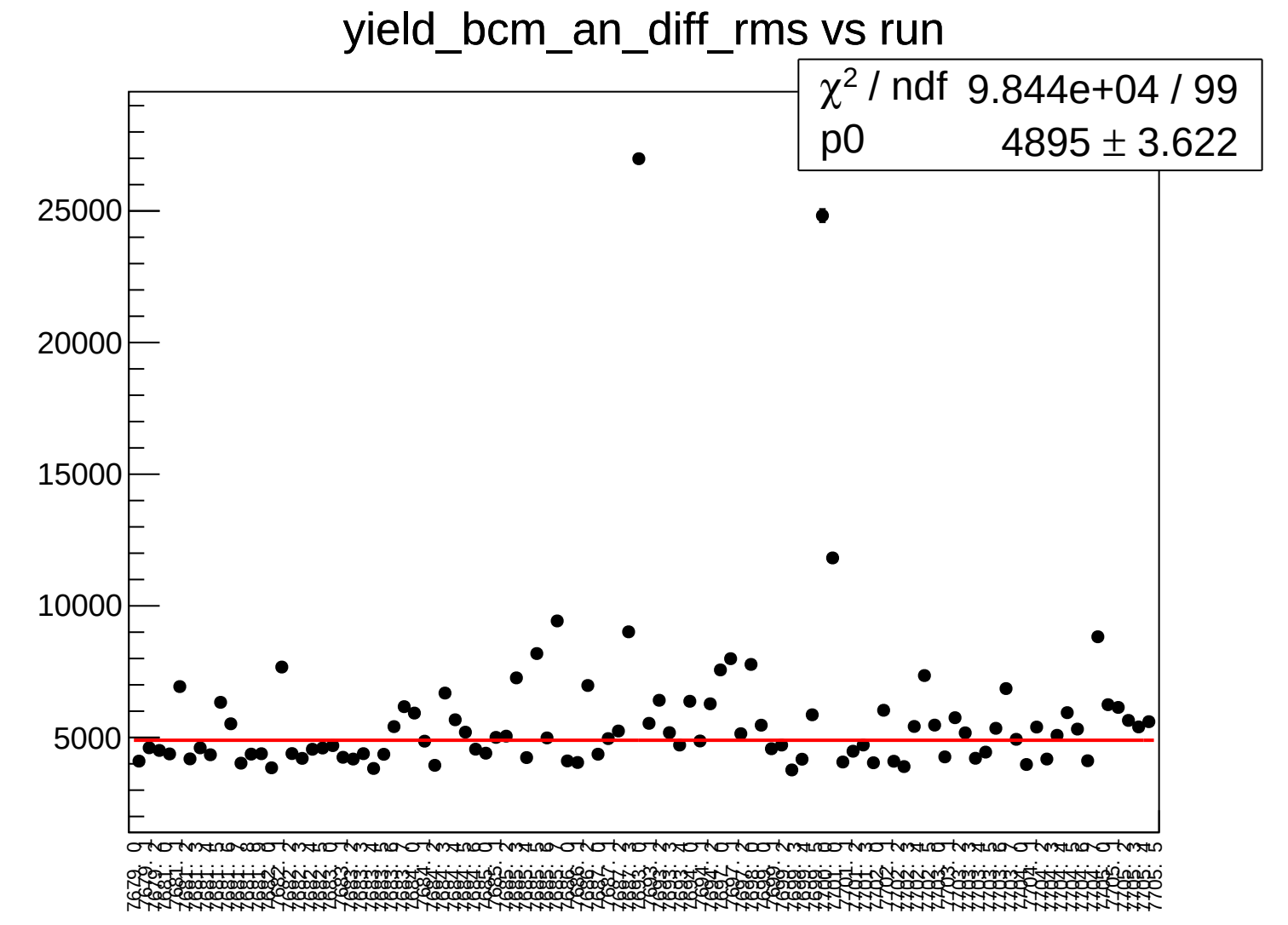

yield_bcm_target_mean vs run
χ² / ndf 1.361e+09 / 99
p0 128.6 ± 0.0003794
145
140
135
130
125
120
115
110
105
pull
Entries 100
Mean 839.1
Std Dev 0
6000
4000
2000
0
−2000
−4000
−6000

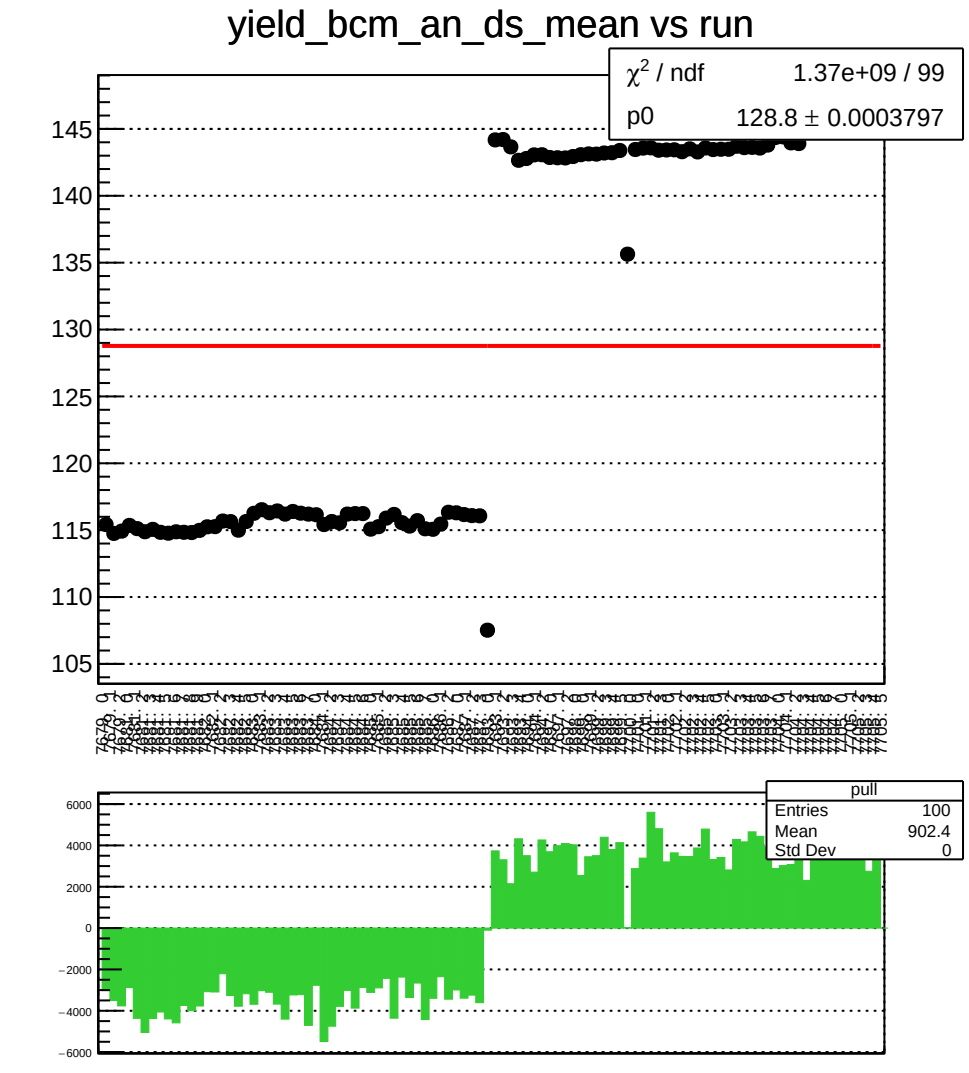

pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

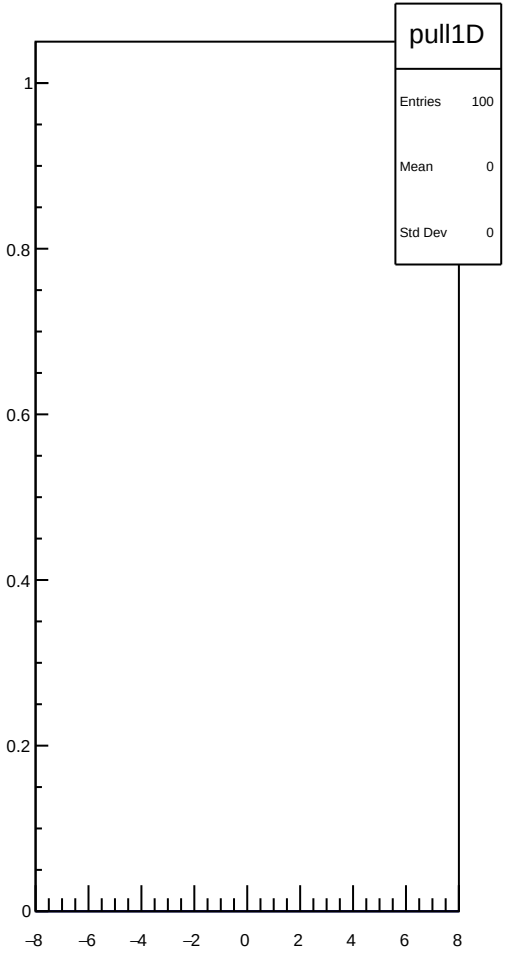

yield_bcm_target_rms vs run
χ² / ndf 9.579e+04 / 99
p0 0.3628 ± 0.0002682
22
20
18
16
14
12
10
8
6
4
2

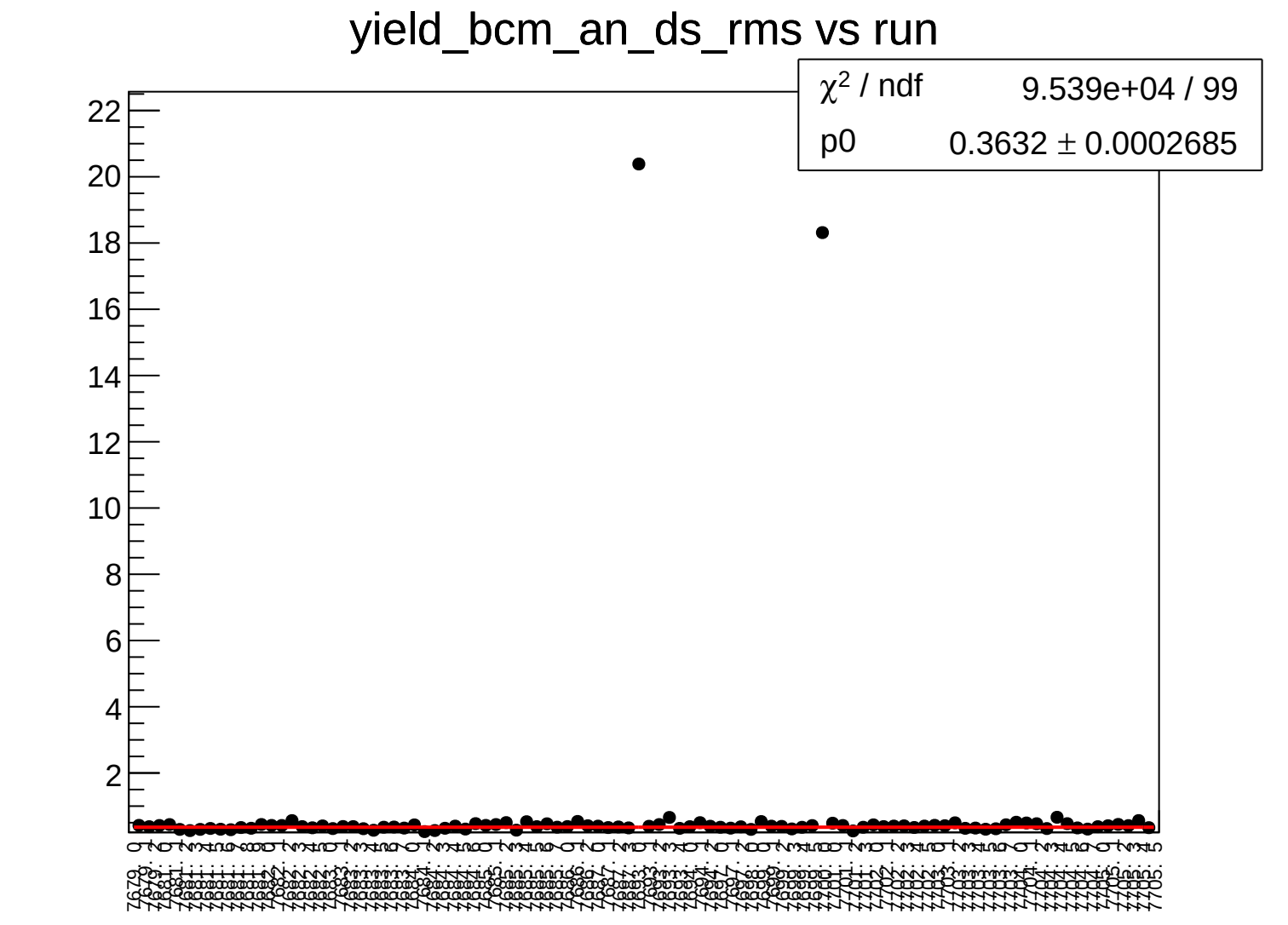

yield_bcm_an_diff_mean vs run
×10^3
χ² / ndf 3.091e+07 / 99
p0 −5.452e+04 ± 5.122
−20
−40
−60
−80
−100
pull
Entries 100
Mean 4046
Std Dev 0
1000
500
0
−500
−1000

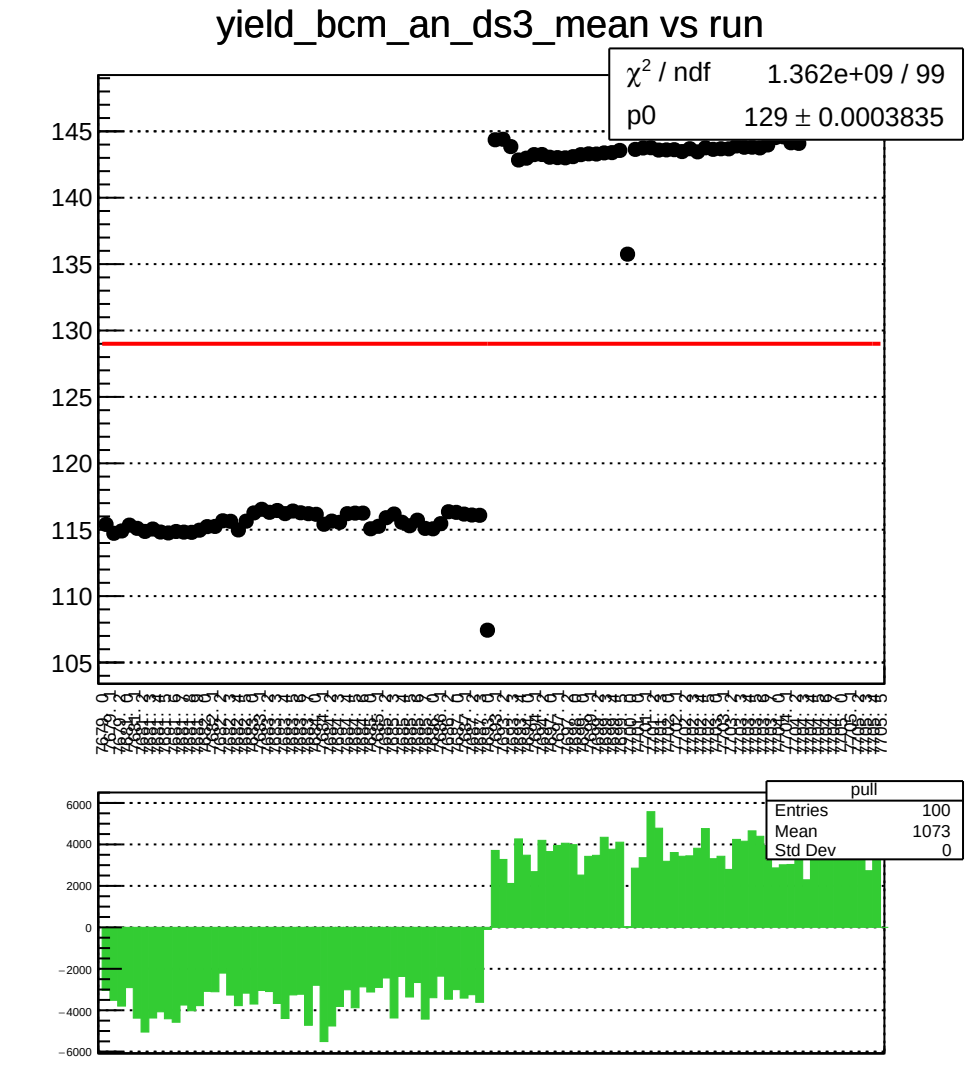

pull1D
Entries 100
Mean 3.578
Std Dev 2.362
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

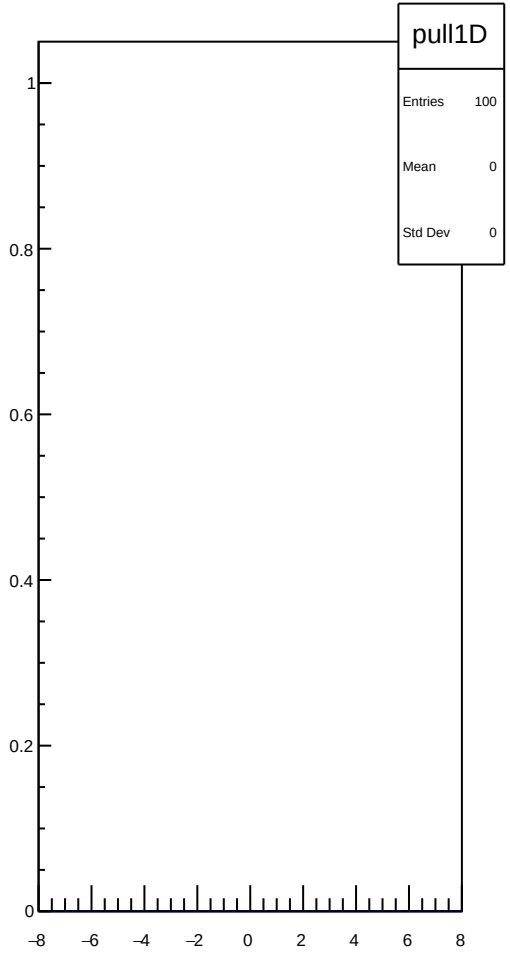

yield_bcm_an_diff_rms vs run
χ² / ndf 9.844e+04 / 99
p0 4895 ± 3.622
25000
20000
15000
10000
5000

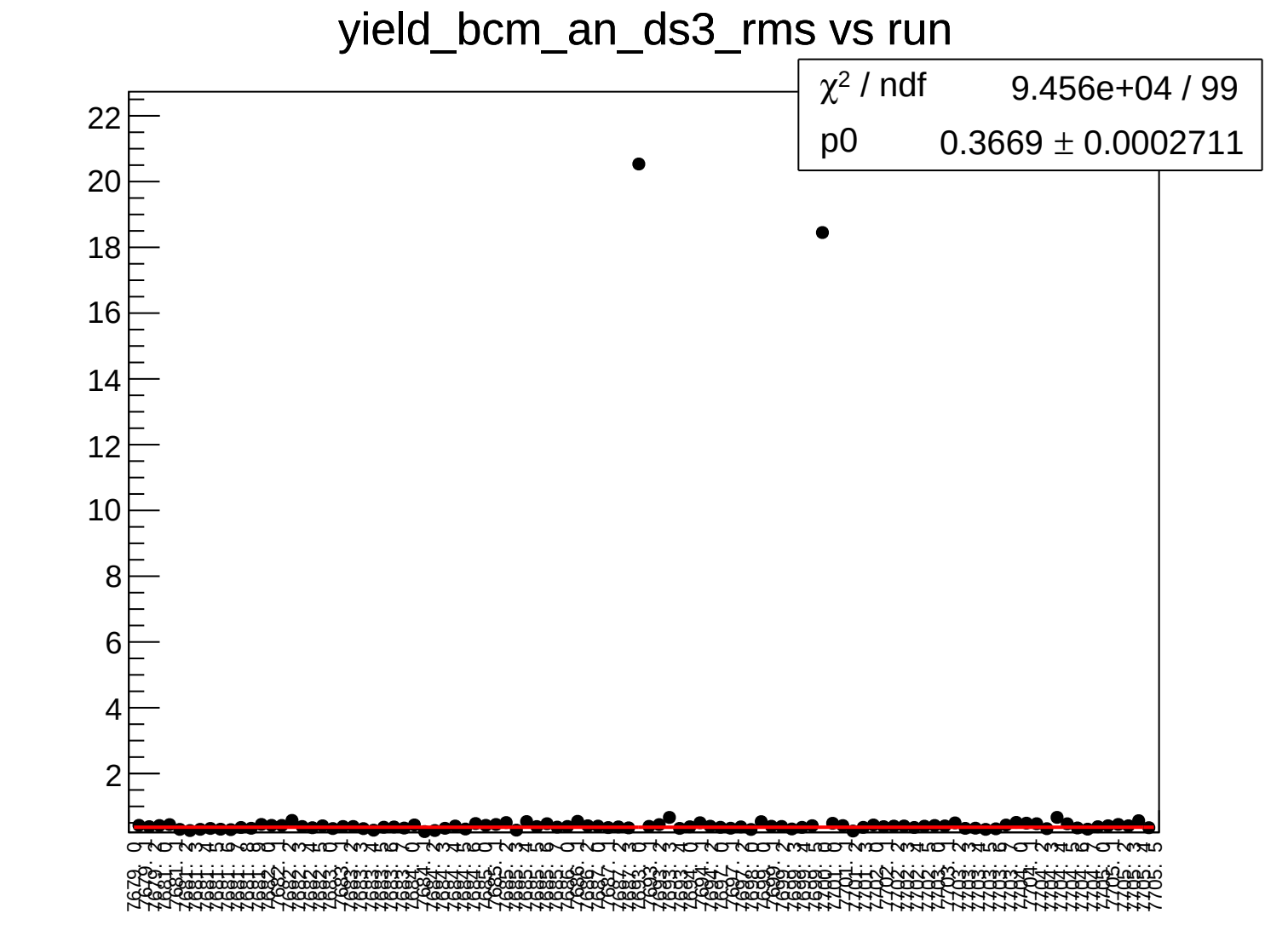

yield_bcm_an_ds_mean vs run
χ² / ndf 1.37e+09 / 99
p0 128.8 ± 0.0003797
145
140
135
130
125
120
115
110
105
pull
Entries 100
Mean 902.4
Std Dev 0
6000
4000
2000
0
−2000
−4000
−6000

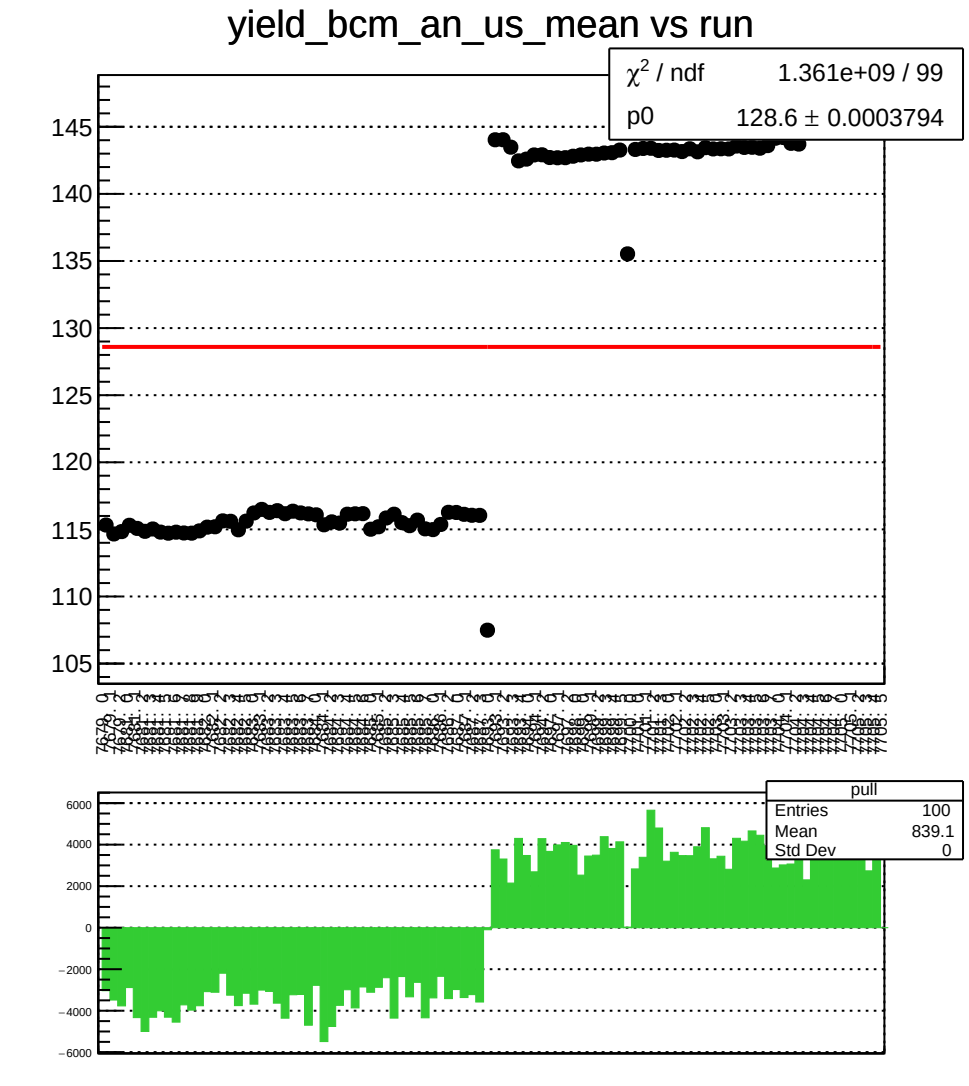

pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

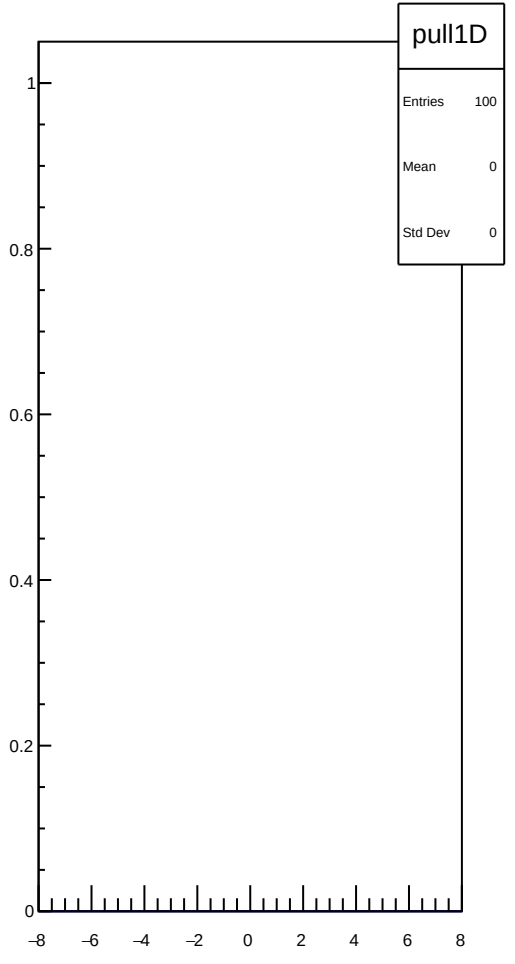

yield_bcm_an_ds_rms vs run
χ² / ndf 9.539e+04 / 99
p0 0.3632 ± 0.0002685
22
20
18
16
14
12
10
8
6
4
2

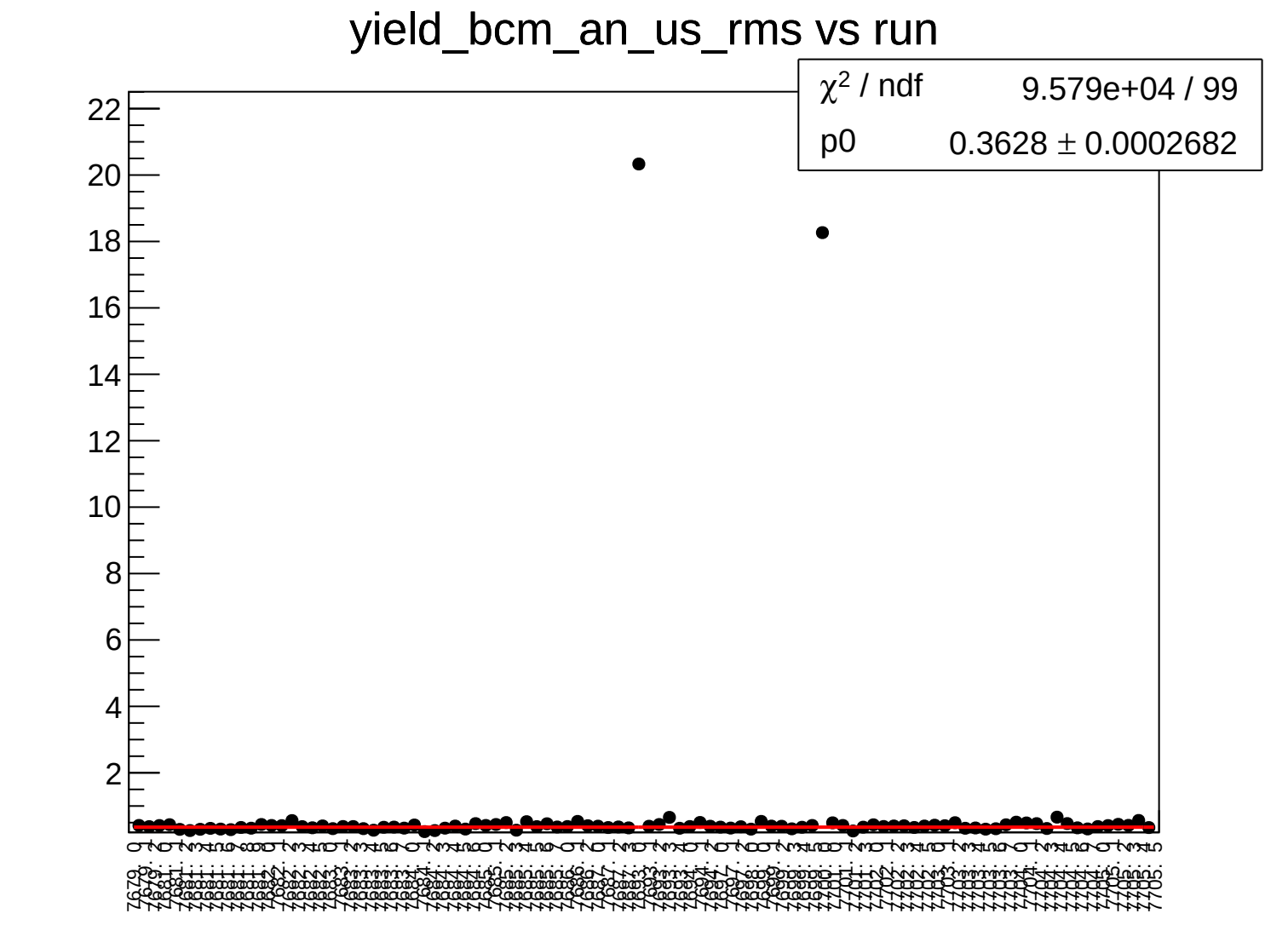

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.362e+09 / 99
p0 129 ± 0.0003835
145
140
135
130
125
120
115
110
105
pull
Entries 100
Mean 1073
Std Dev 0
6000
4000
2000
0
−2000
−4000
−6000

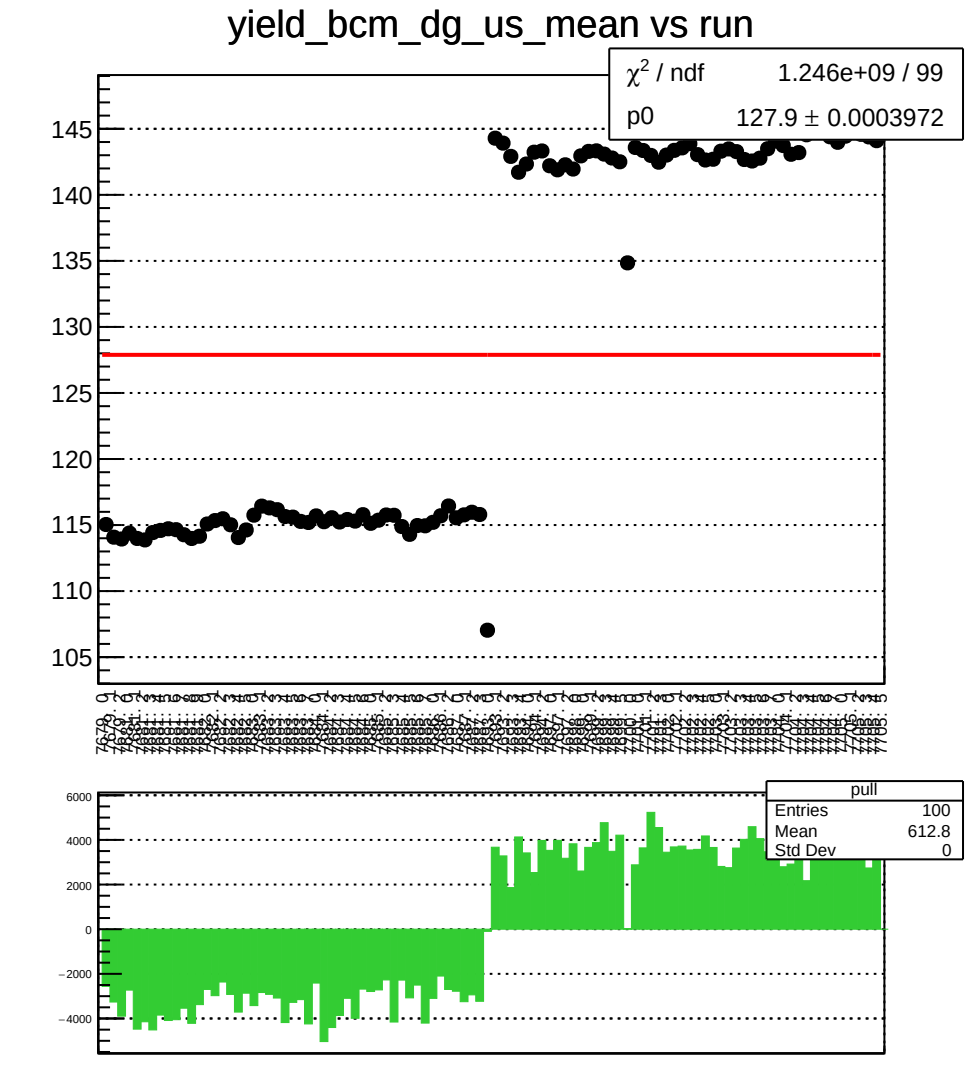

pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

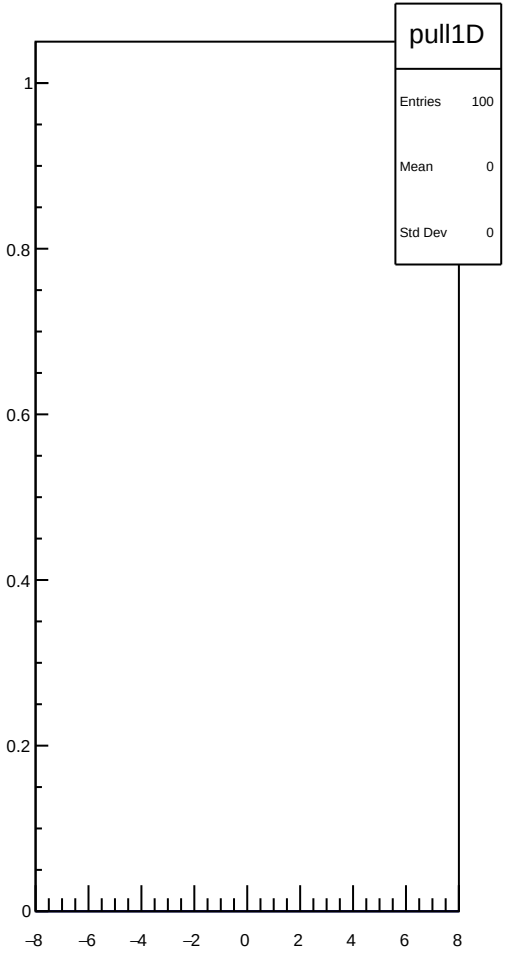

yield_bcm_an_ds3_rms vs run
χ² / ndf 9.456e+04 / 99
p0 0.3669 ± 0.0002711
22
20
18
16
14
12
10
8
6
4
2

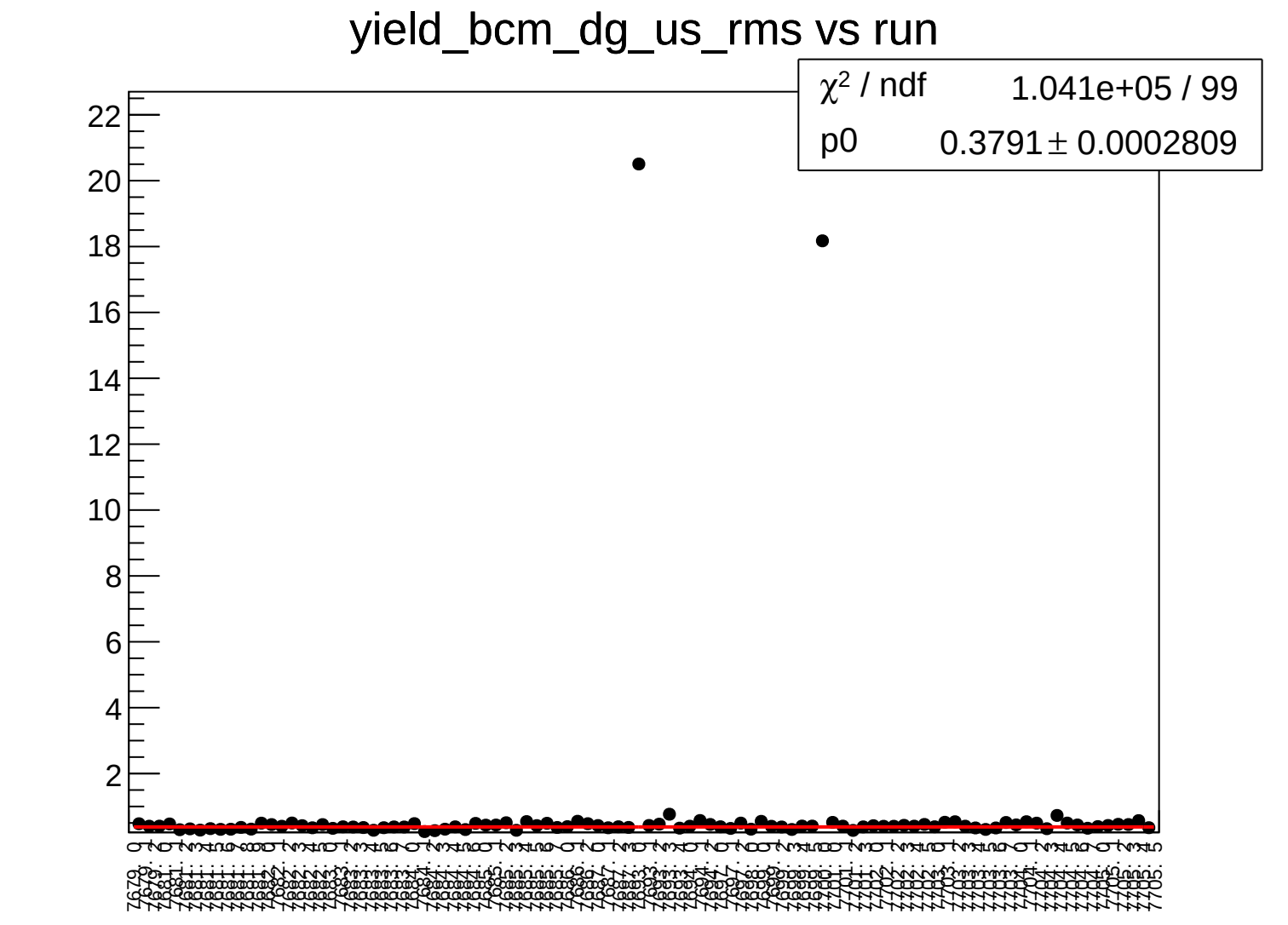

yield_bcm_an_us_mean vs run
χ² / ndf 1.361e+09 / 99
p0 128.6 ± 0.0003794
145
140
135
130
125
120
115
110
105
pull
Entries 100
Mean 839.1
Std Dev 0
6000
4000
2000
0
−2000
−4000
−6000

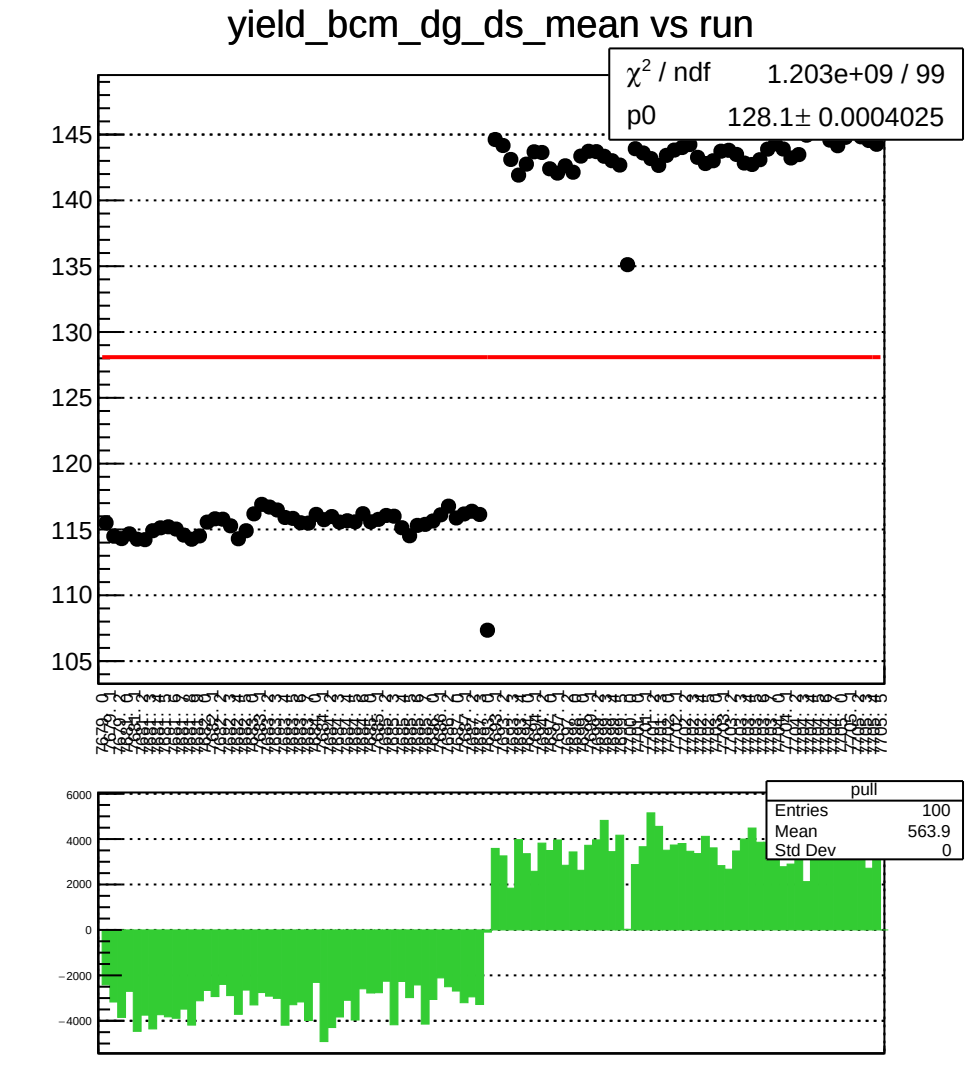

pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

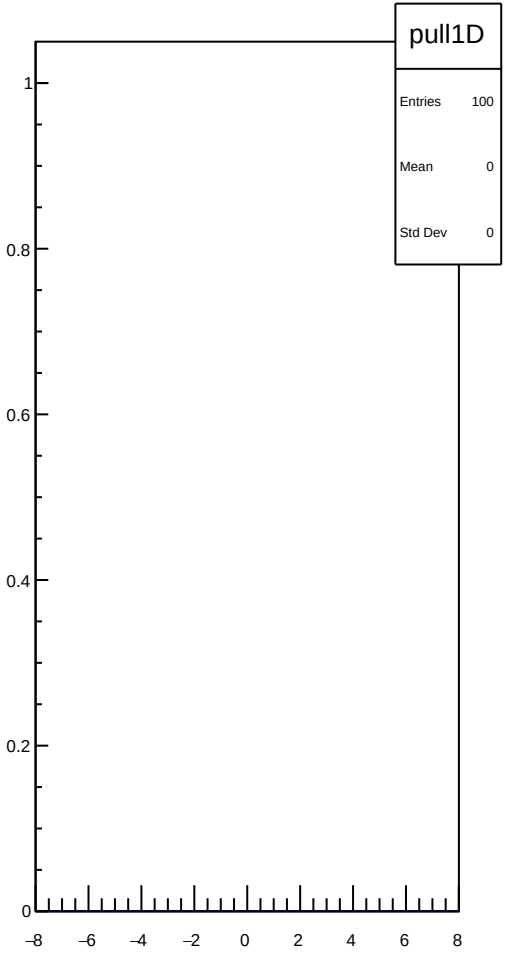

yield_bcm_an_us_rms vs run
χ² / ndf 9.579e+04 / 99
p0 0.3628 ± 0.0002682
22
20
18
16
14
12
10
8
6
4
2

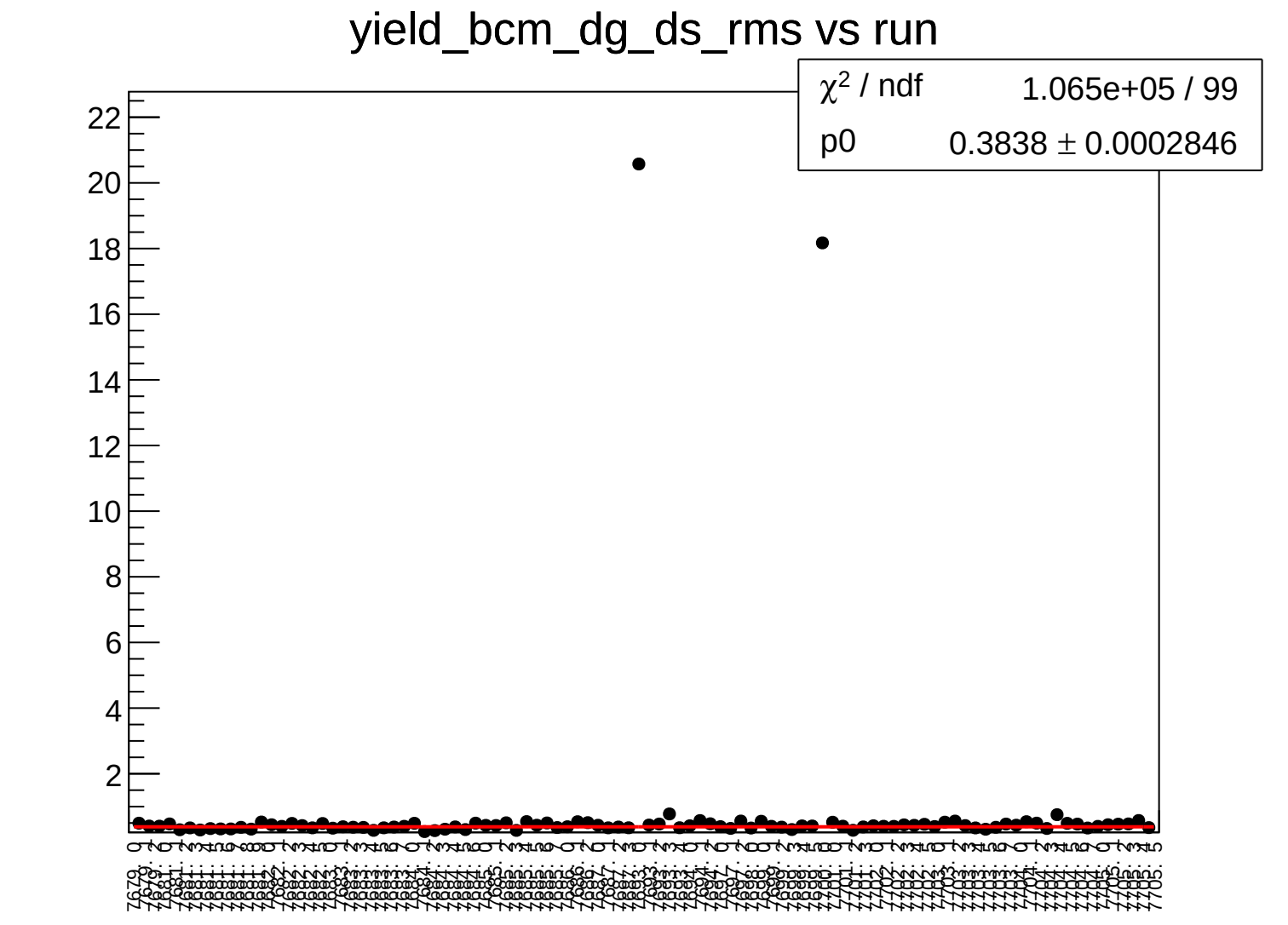

yield_bcm_dg_us_mean vs run
χ² / ndf 1.246e+09 / 99
p0 127.9 ± 0.0003972
145
140
135
130
125
120
115
110
105
pull
Entries 100
Mean 612.8
Std Dev 0
6000
4000
2000
0
−2000
−4000

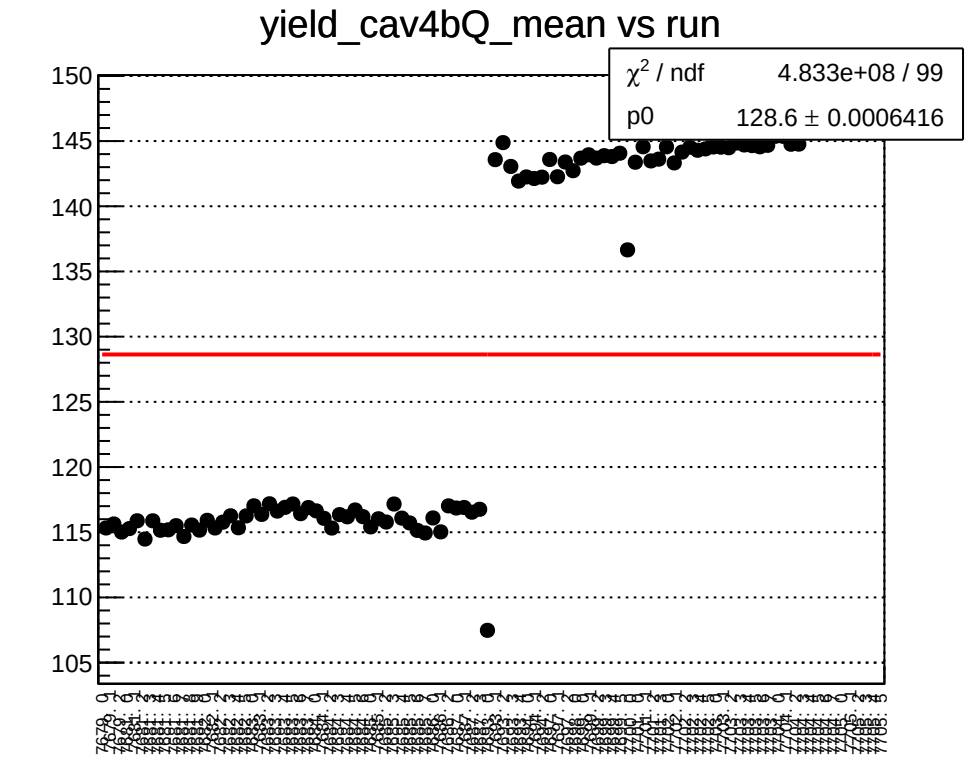

pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

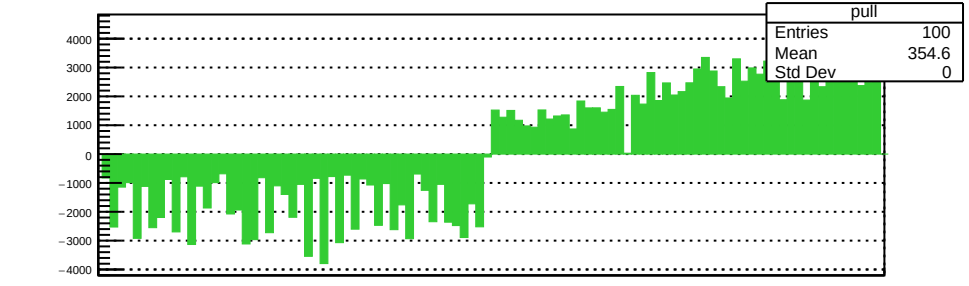

yield_bcm_dg_us_rms vs run
χ² / ndf 1.041e+05 / 99
p0 0.3791 ± 0.0002809
22
20
18
16
14
12
10
8
6
4
2

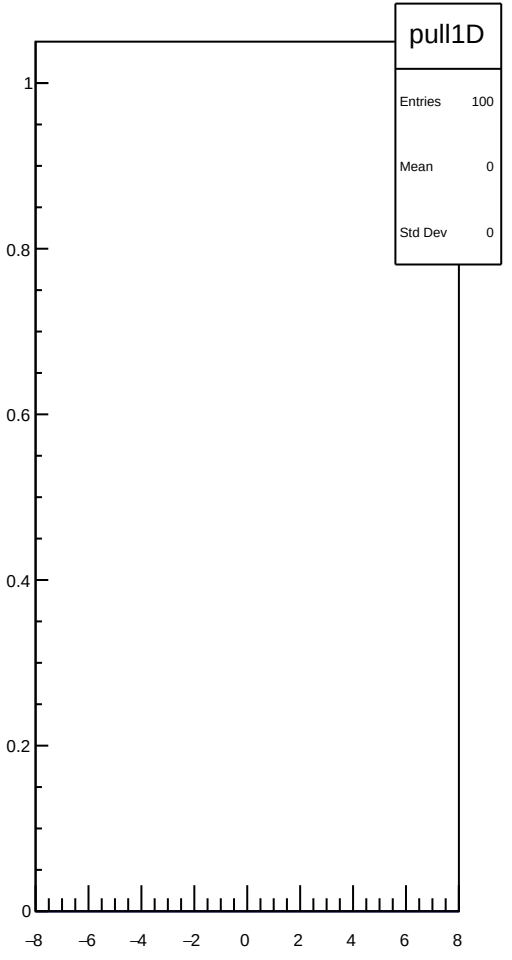

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.203e+09 / 99
p0 128.1± 0.0004025
145
140
135
130
125
120
115
110
105
pull
Entries 100
Mean 563.9
Std Dev 0
6000
4000
2000
0
−2000
−4000

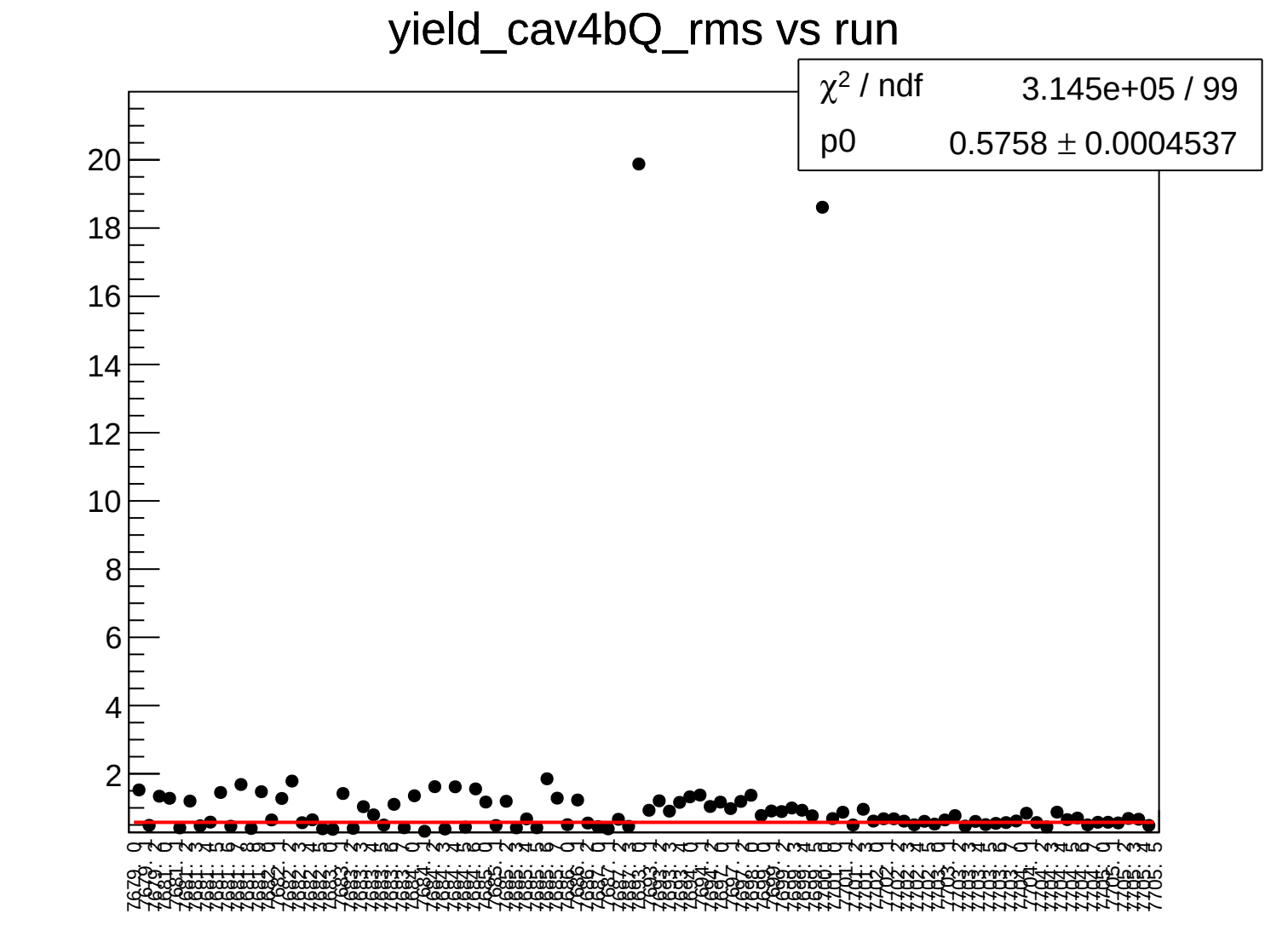

pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

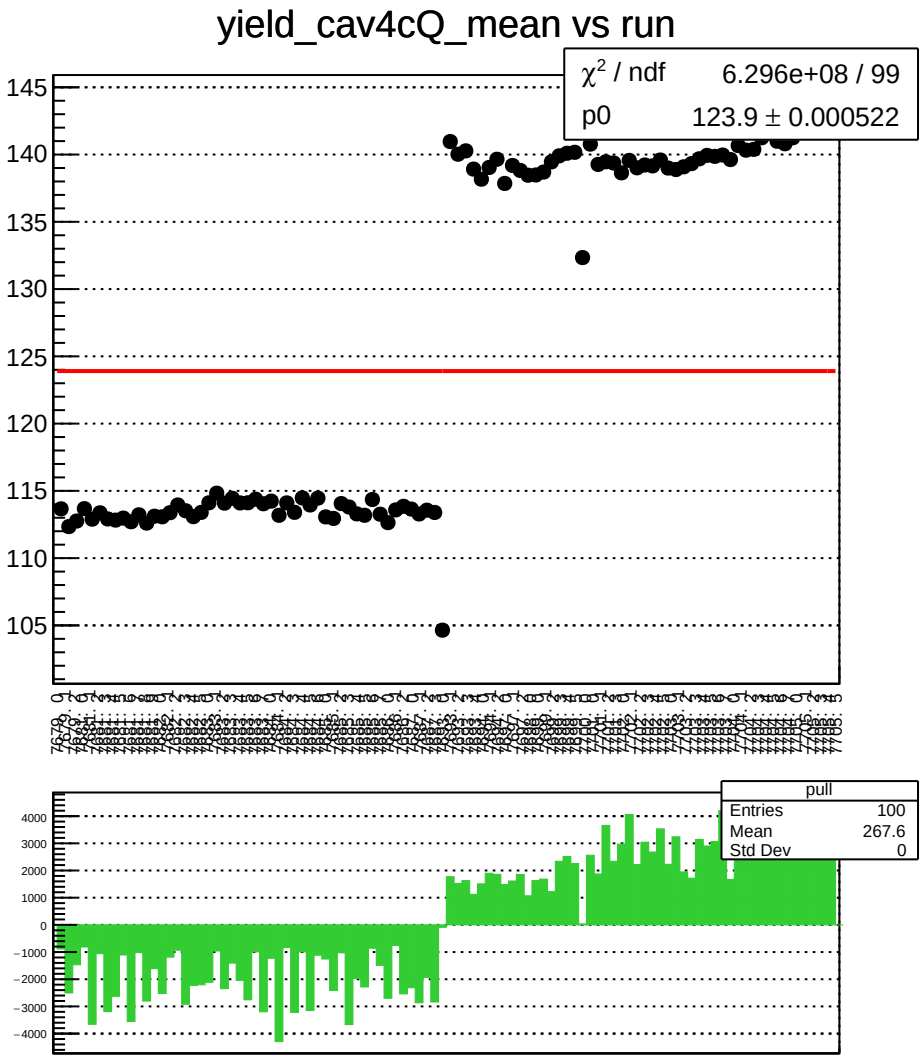

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.065e+05 / 99
p0 0.3838 ± 0.0002846
22
20
18
16
14
12
10
8
6
4
2

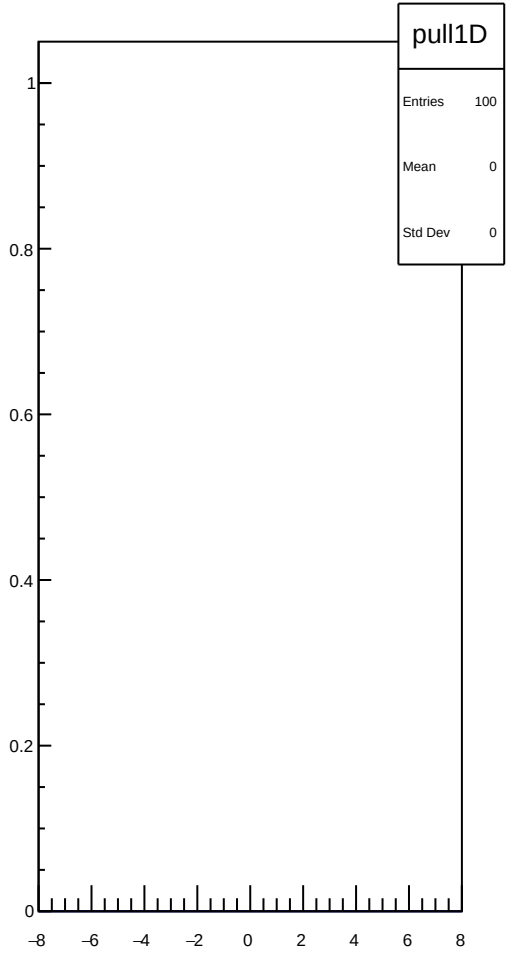

yield_cav4bQ_mean vs run
χ² / ndf 4.833e+08 / 99
p0 128.6 ± 0.0006416
150
145
140
135
130
125
120
115
110
105

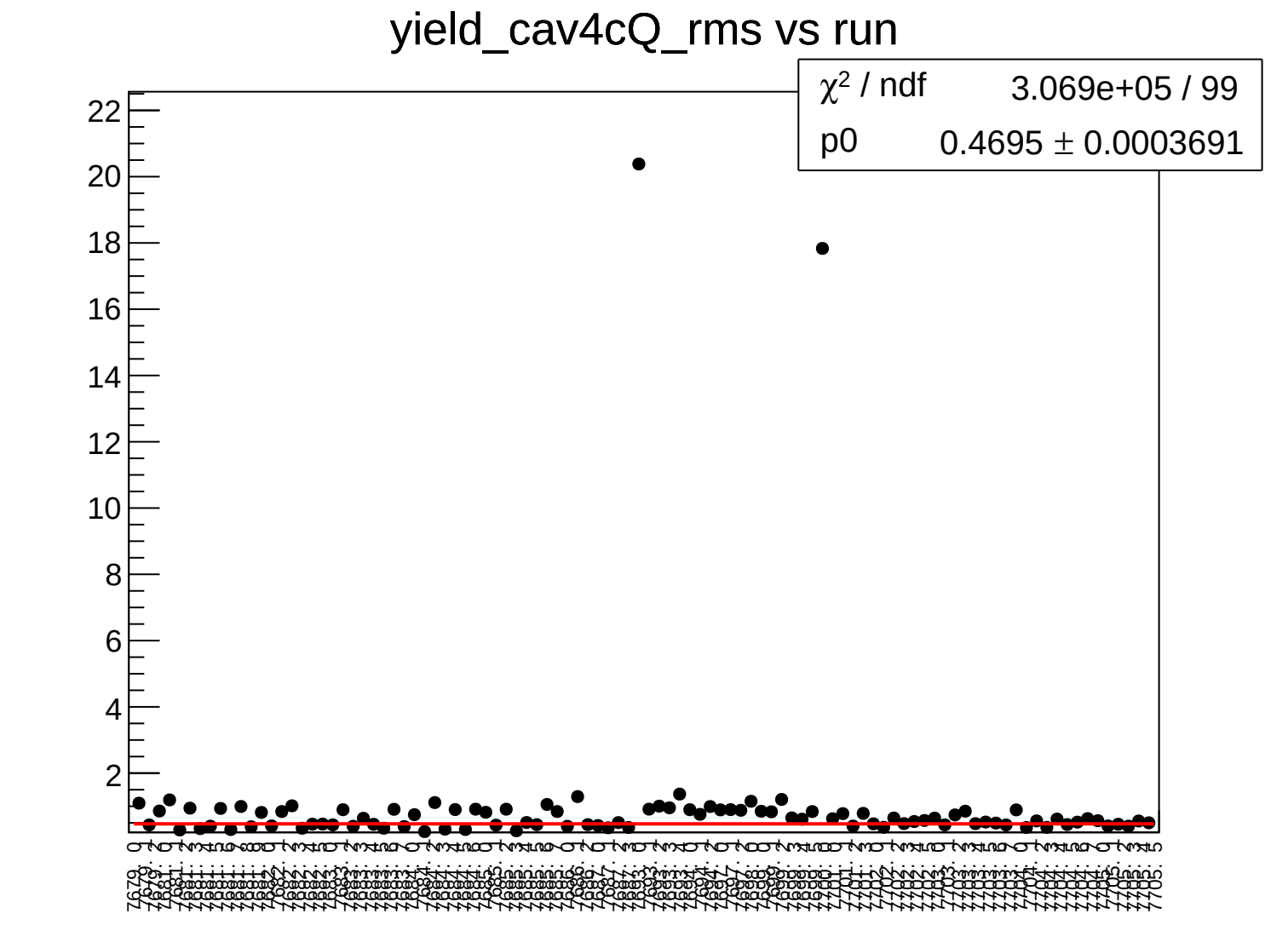

pull
Entries 100
Mean 354.6
Std Dev 0
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000

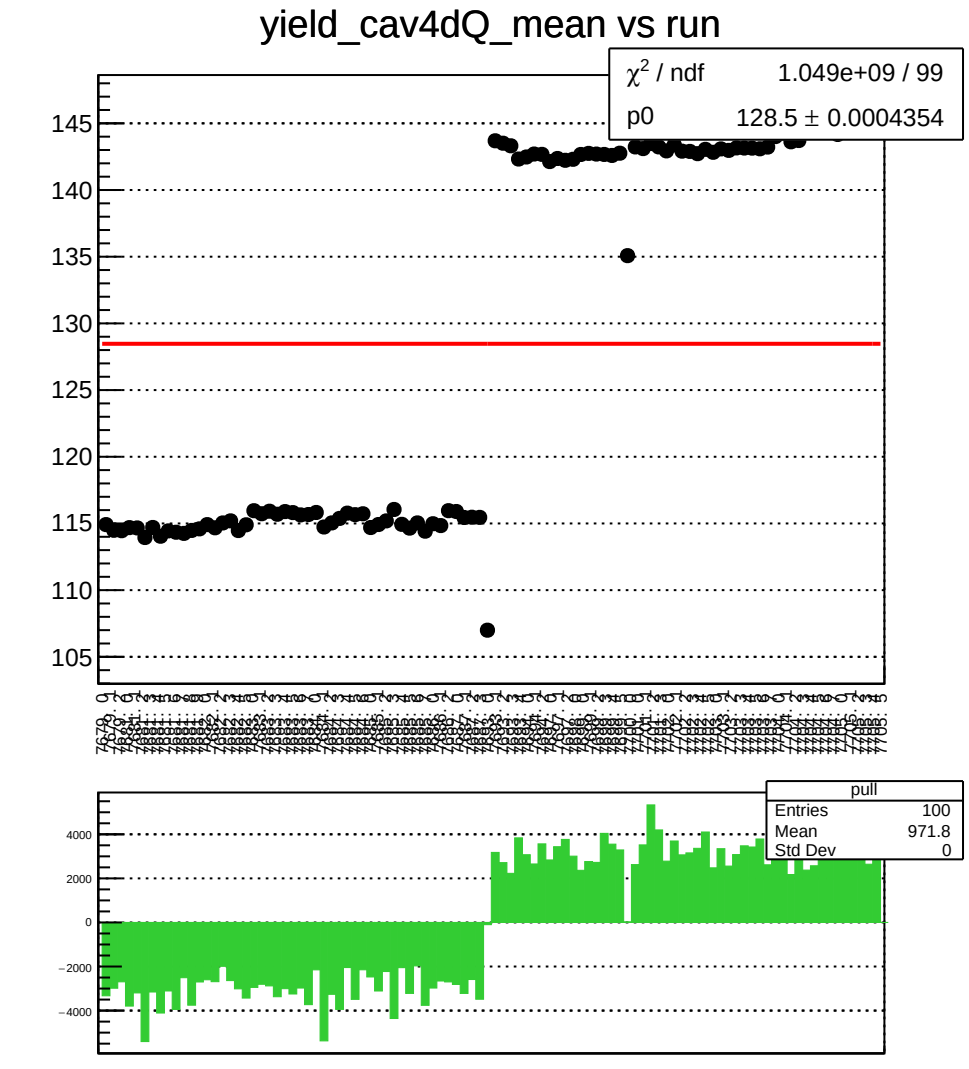

pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

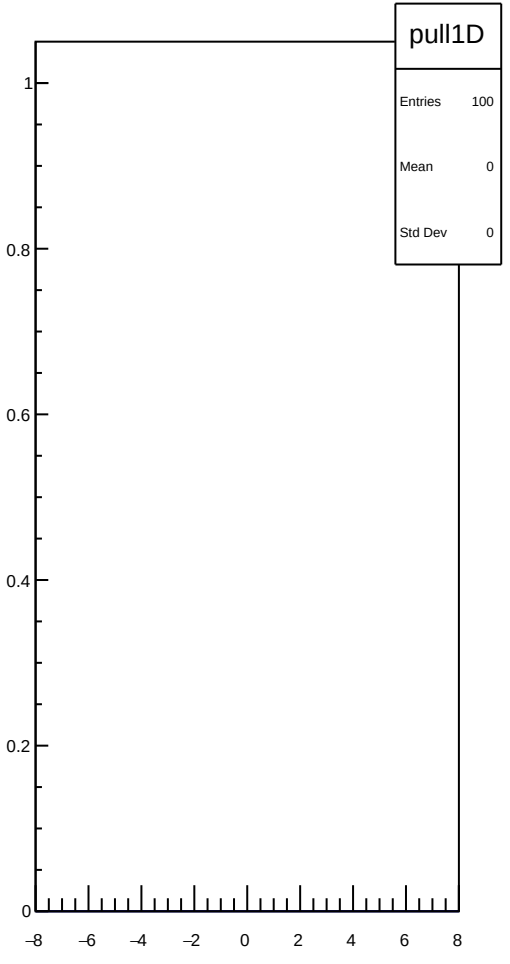

yield_cav4bQ_rms vs run
χ² / ndf 3.145e+05 / 99
p0 0.5758 ± 0.0004537
20
18
16
14
12
10
8
6
4
2

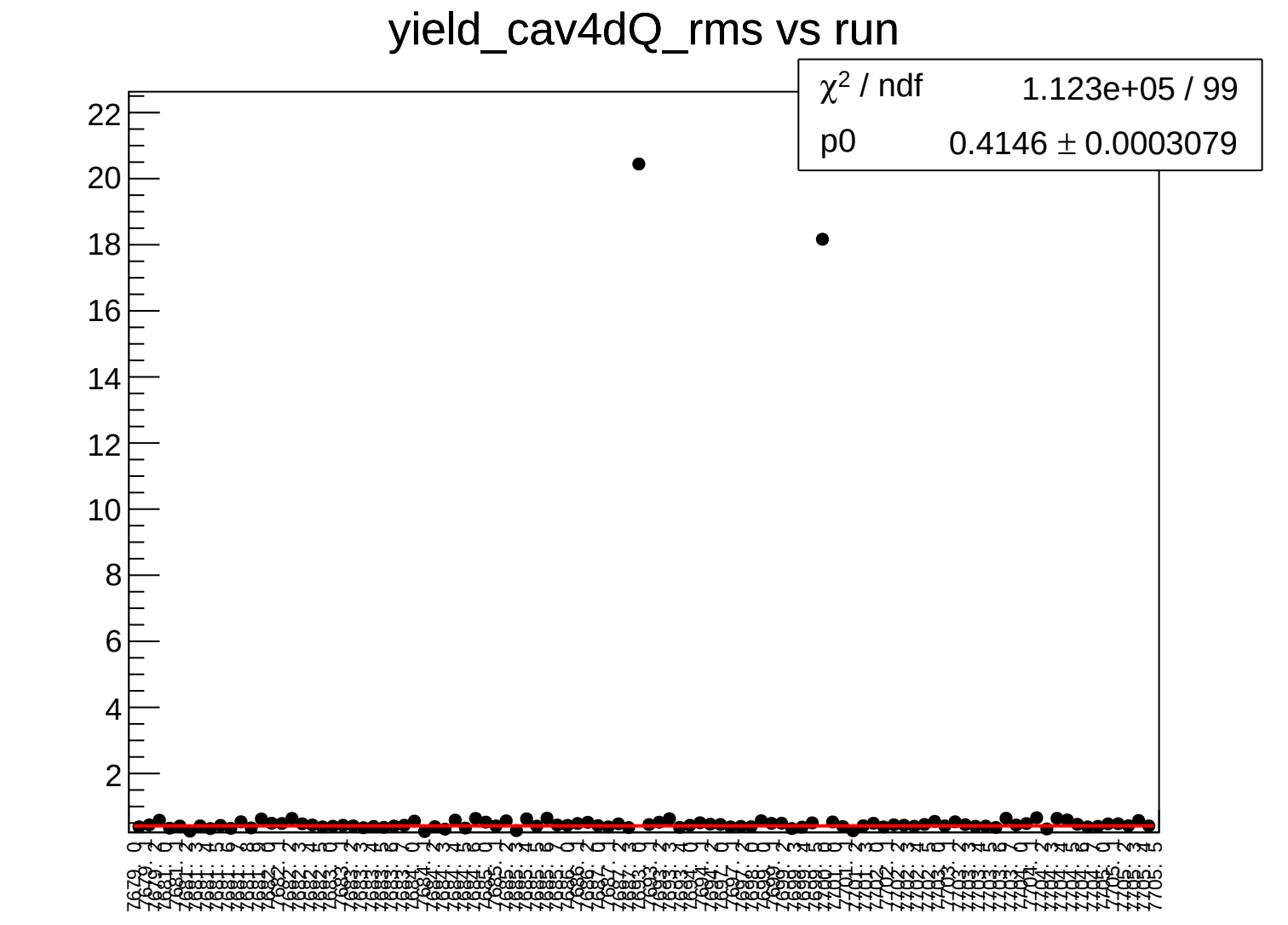

yield_cav4cQ_mean vs run
χ² / ndf 6.296e+08 / 99
p0 123.9 ± 0.000522
145
140
135
130
125
120
115
110
105
pull
Entries 100
Mean 267.6
Std Dev 0
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000

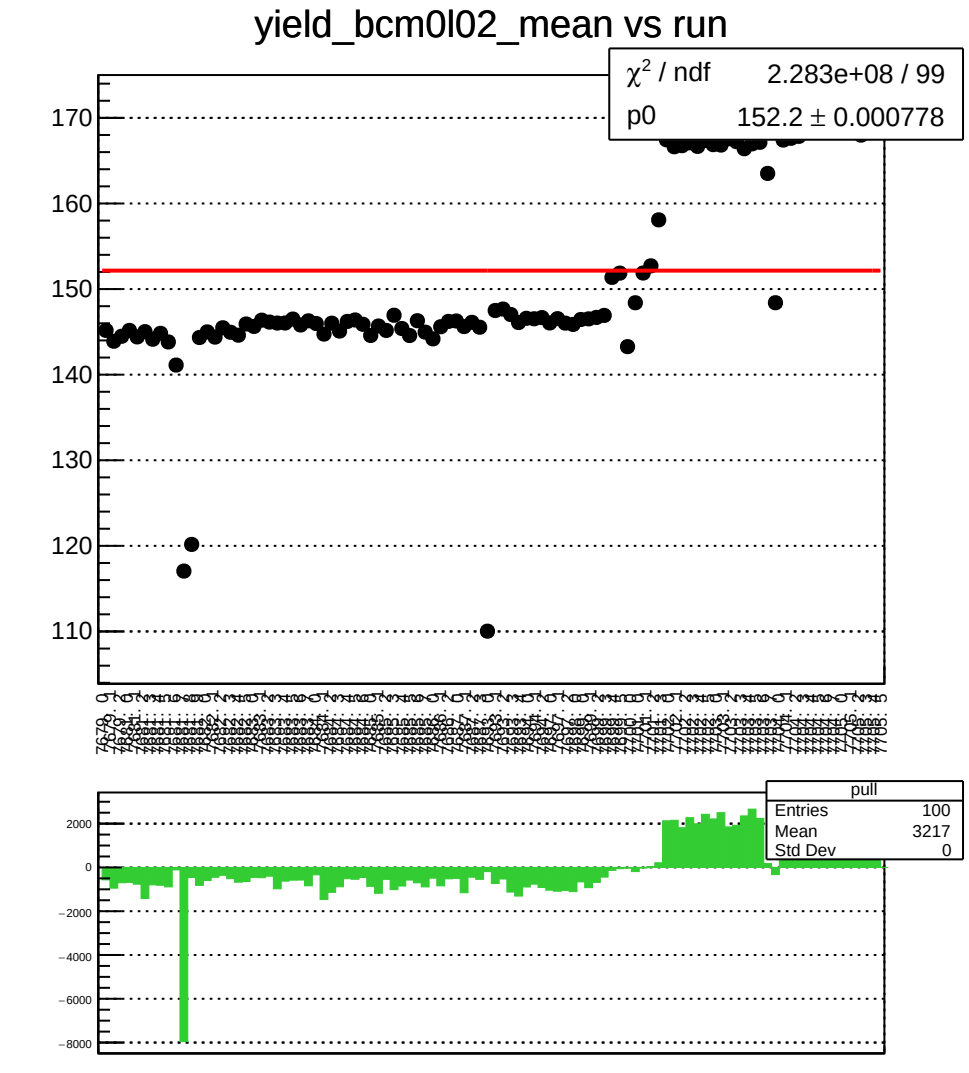

pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

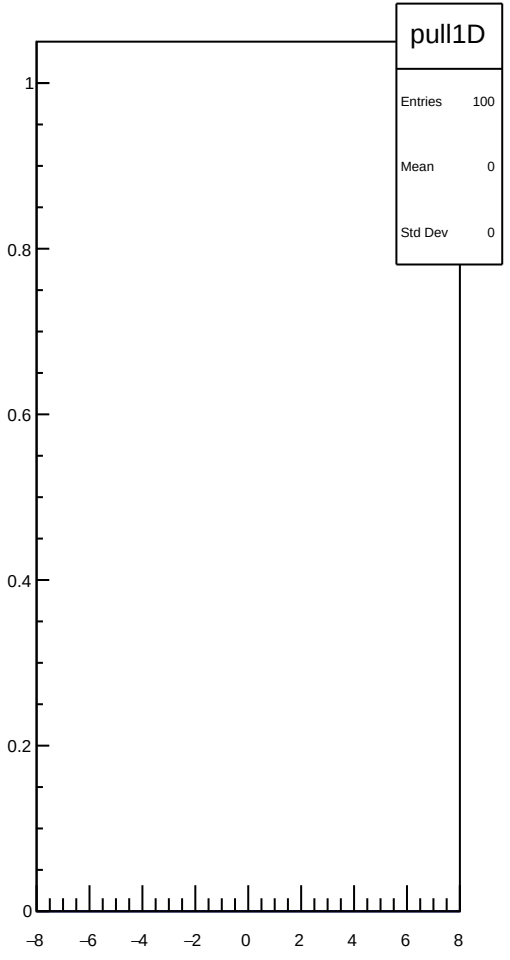

yield_cav4cQ_rms vs run
χ² / ndf 3.069e+05 / 99
p0 0.4695 ± 0.0003691
22
20
18
16
14
12
10
8
6
4
2

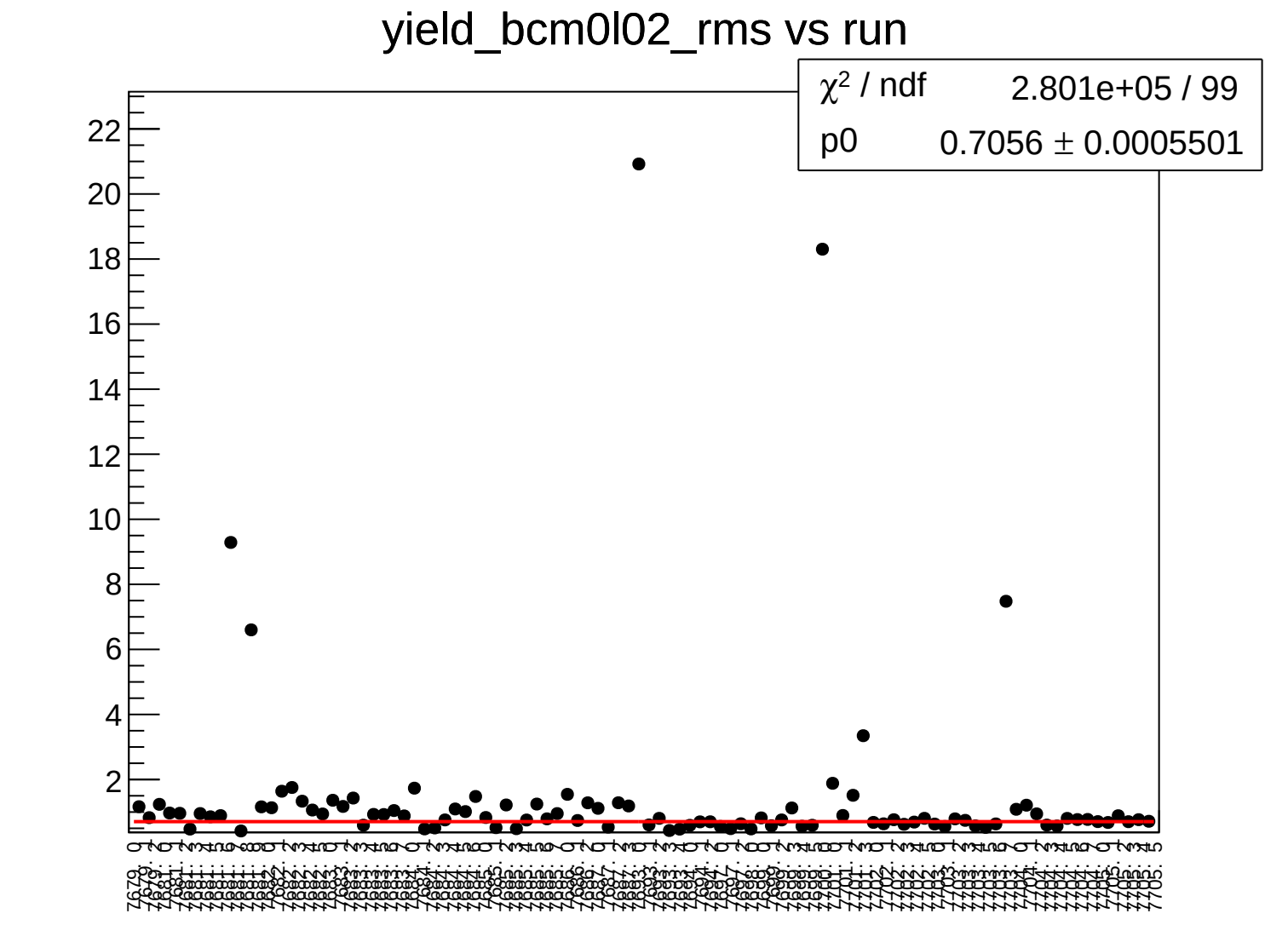

yield_cav4dQ_mean vs run
χ² / ndf 1.049e+09 / 99
p0 128.5 ± 0.0004354
145
140
135
130
125
120
115
110
105
pull
Entries 100
Mean 971.8
Std Dev 0
4000
2000
0
−2000
−4000

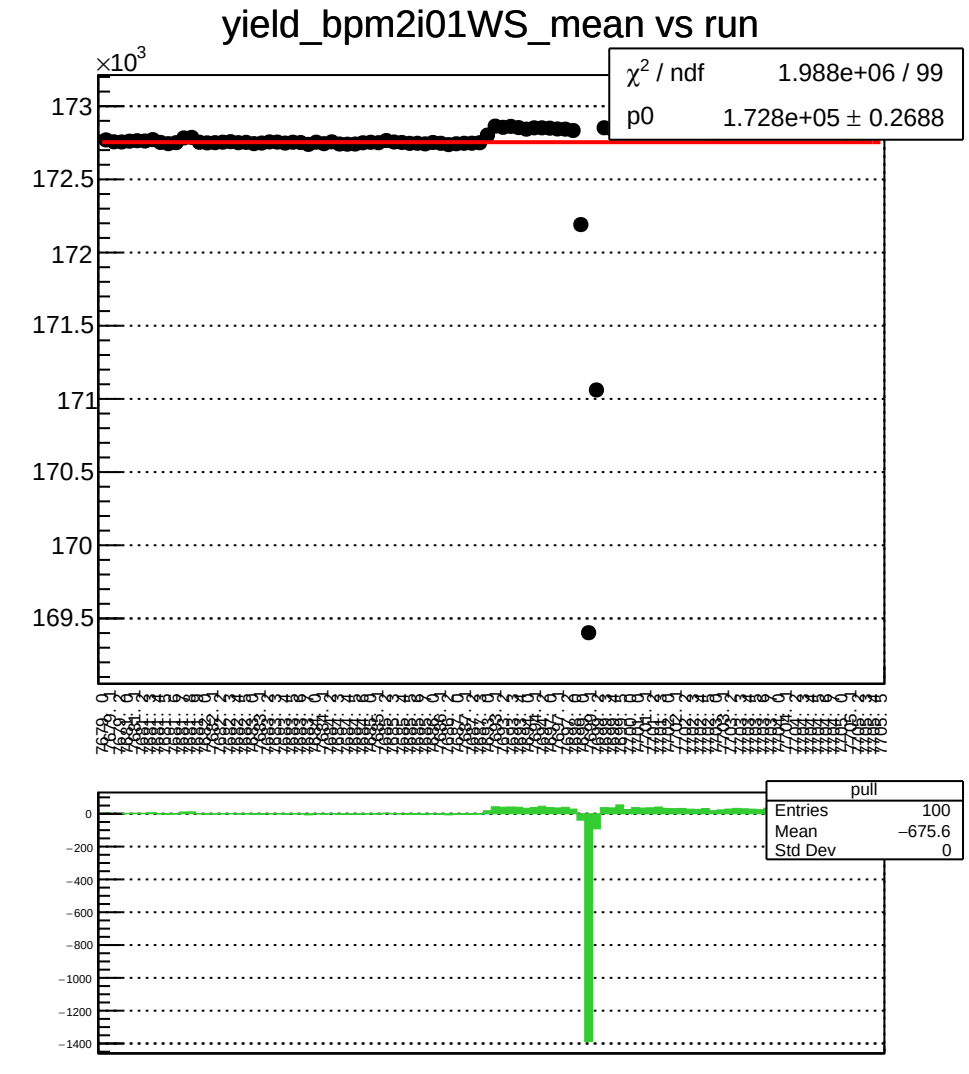

pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

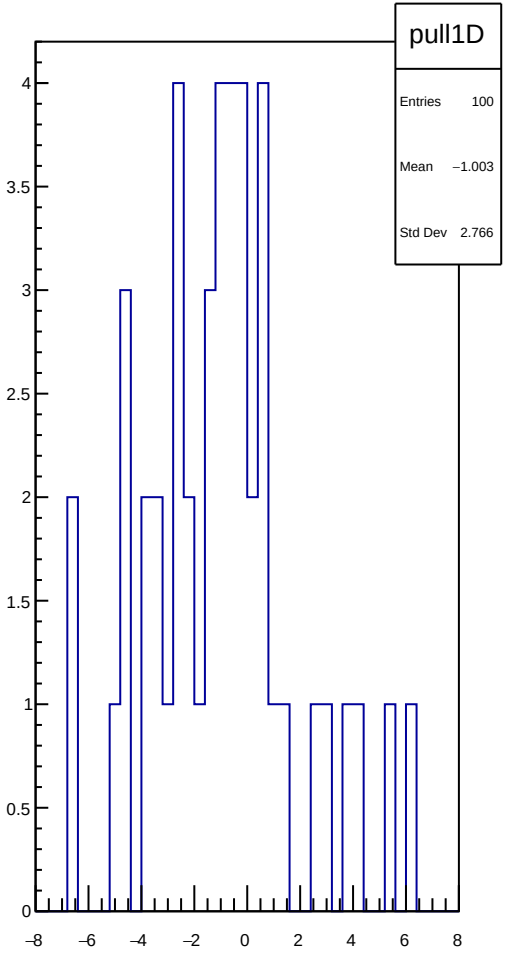

yield_cav4dQ_rms vs run
χ² / ndf 1.123e+05 / 99
p0 0.4146 ± 0.0003079
22
20
18
16
14
12
10
8
6
4
2

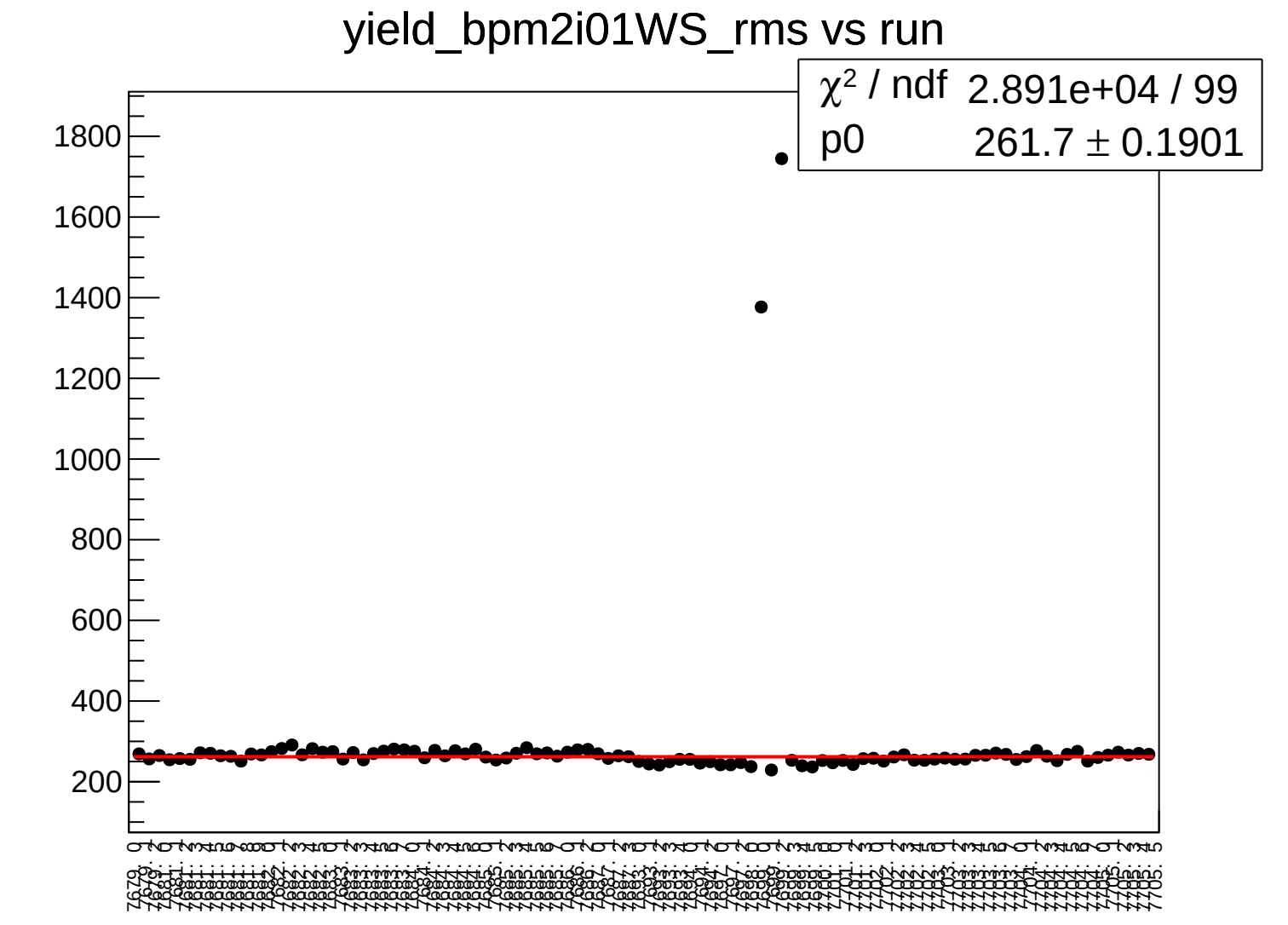

yield_bcm0l02_mean vs run
χ² / ndf 2.283e+08 / 99
p0 152.2 ± 0.000778
170
160
150
140
130
120
110
pull
Entries 100
Mean 3217
Std Dev 0
2000
0
−2000
−4000
−6000
−8000

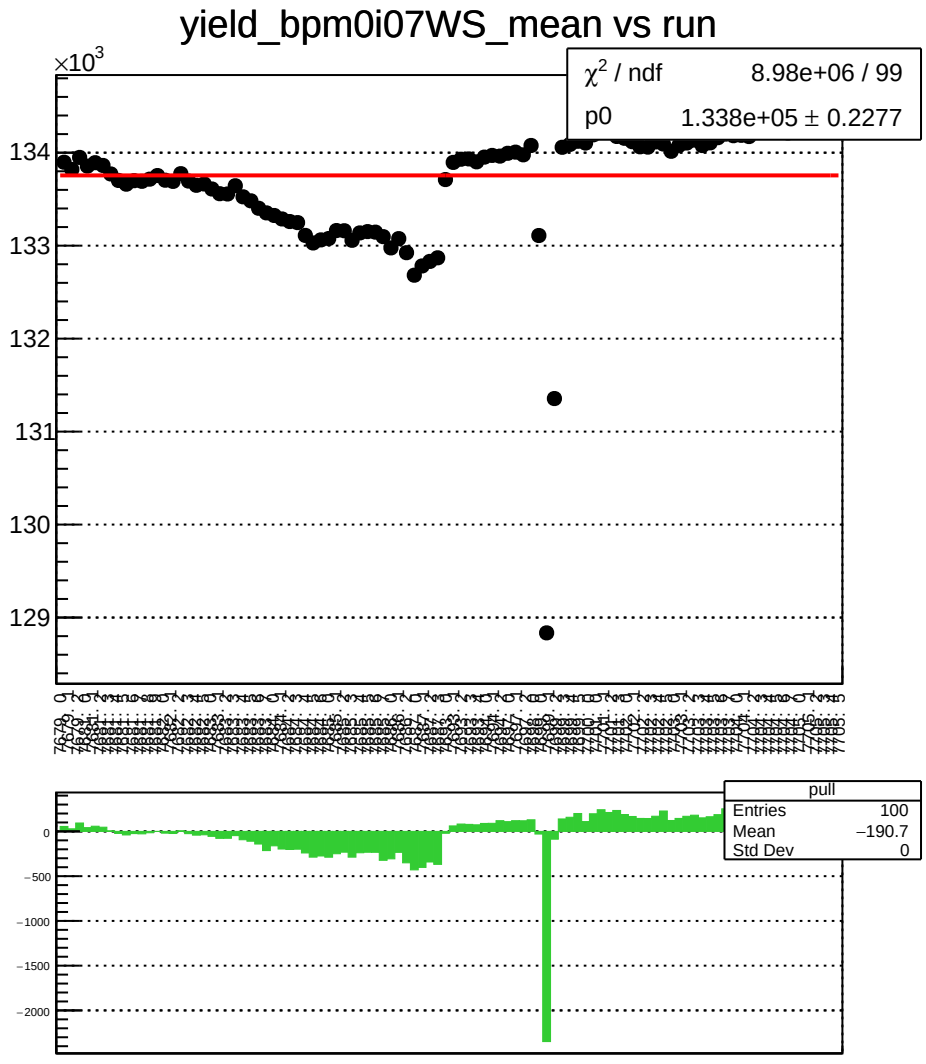

pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

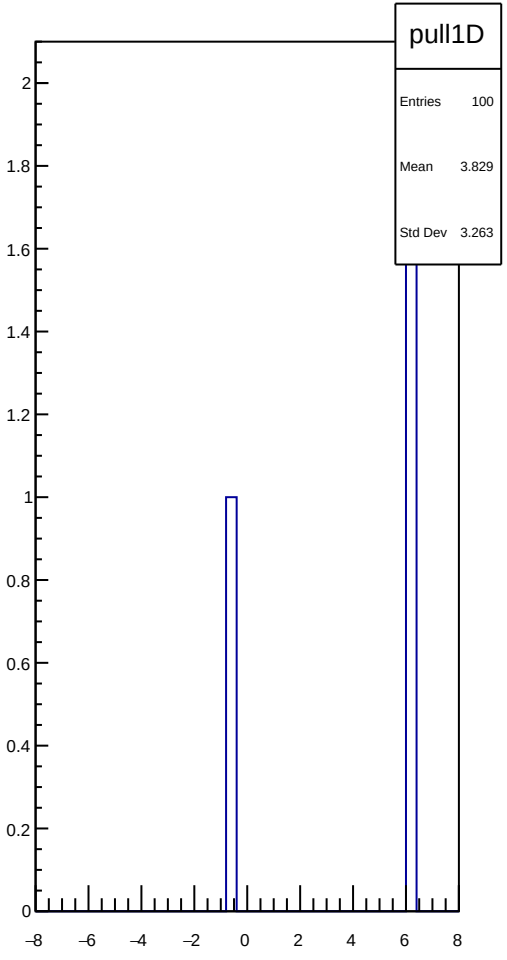

yield_bcm0l02_rms vs run
χ² / ndf 2.801e+05 / 99
p0 0.7056 ± 0.0005501
22
20
18
16
14
12
10
8
6
4
2

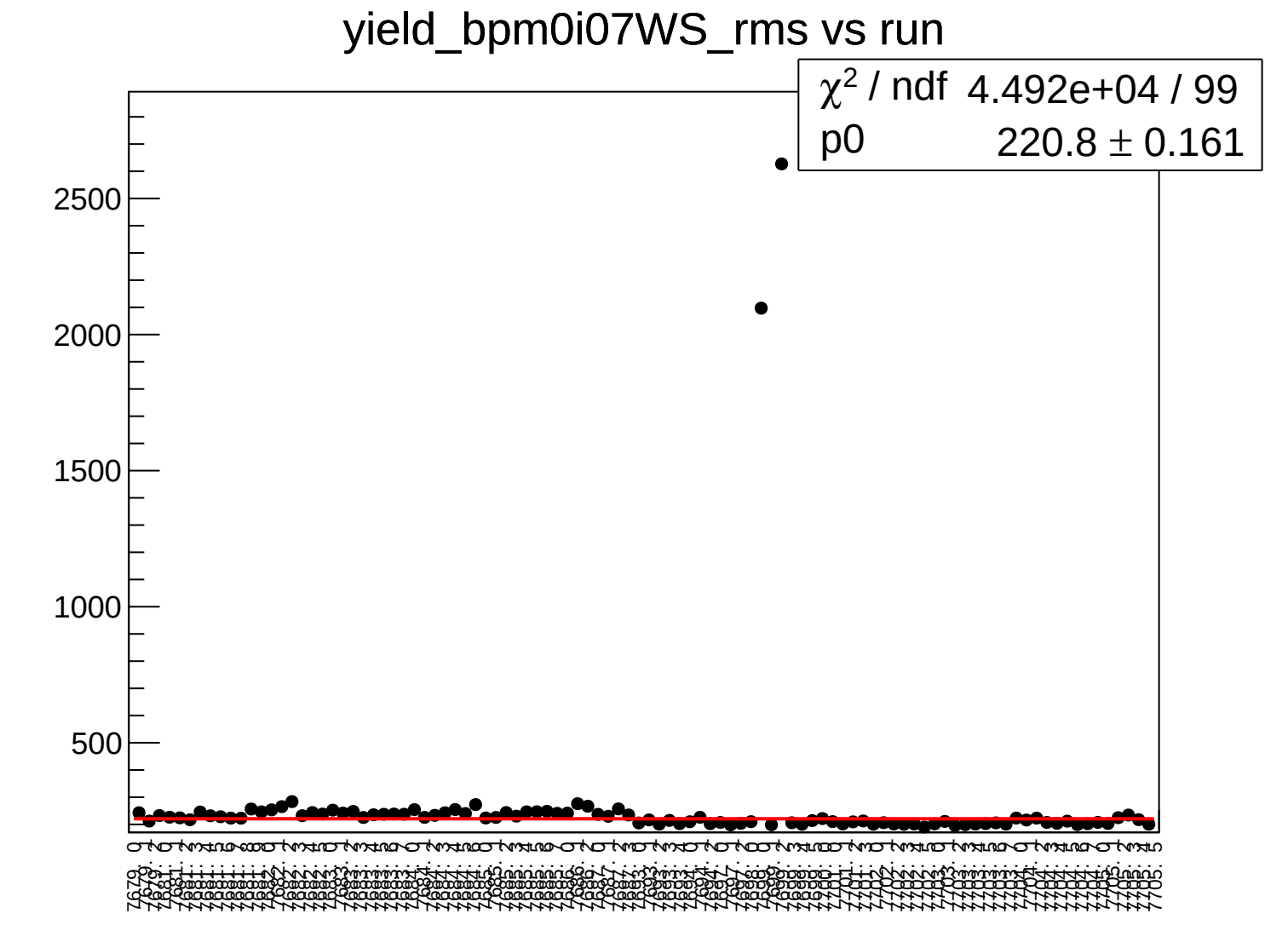

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1.988e+06 / 99
p0 1.728e+05 ± 0.2688
173
172.5
172
171.5
171
170.5
170
169.5
pull
Entries 100
Mean −675.6
Std Dev 0
0
−200
−400
−600
−800
−1000
−1200
−1400

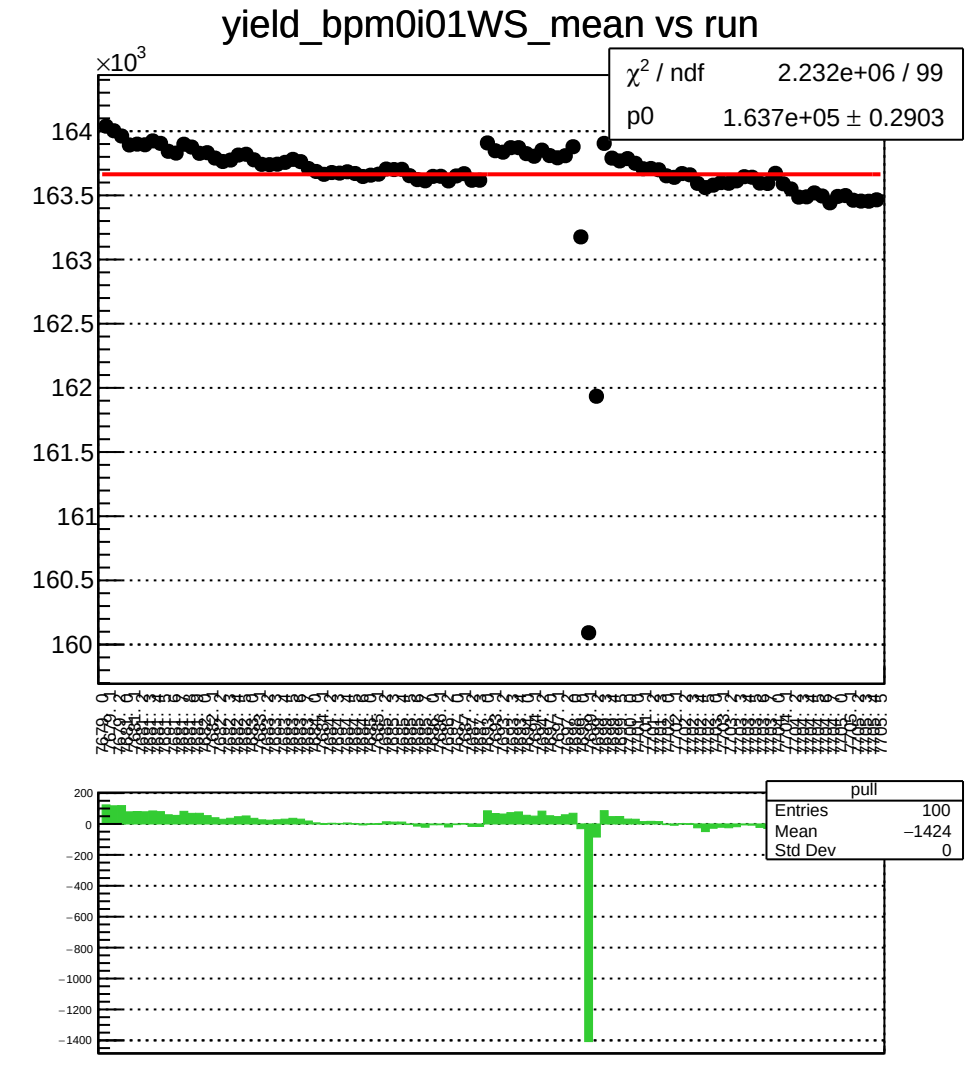

pull1D
Entries 100
Mean −1.003
Std Dev 2.766
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

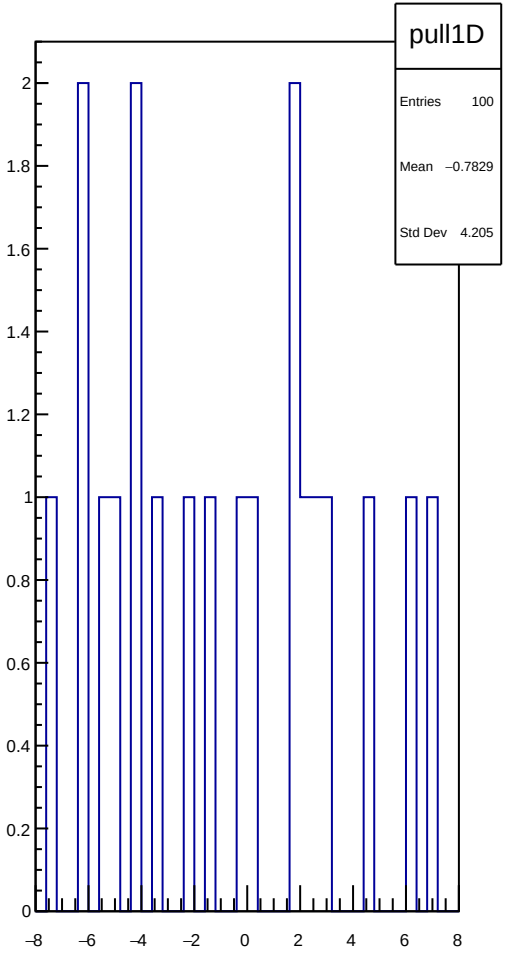

yield_bpm2i01WS_rms vs run
χ² / ndf 2.891e+04 / 99
p0 261.7 ± 0.1901
1800
1600
1400
1200
1000
800
600
400
200

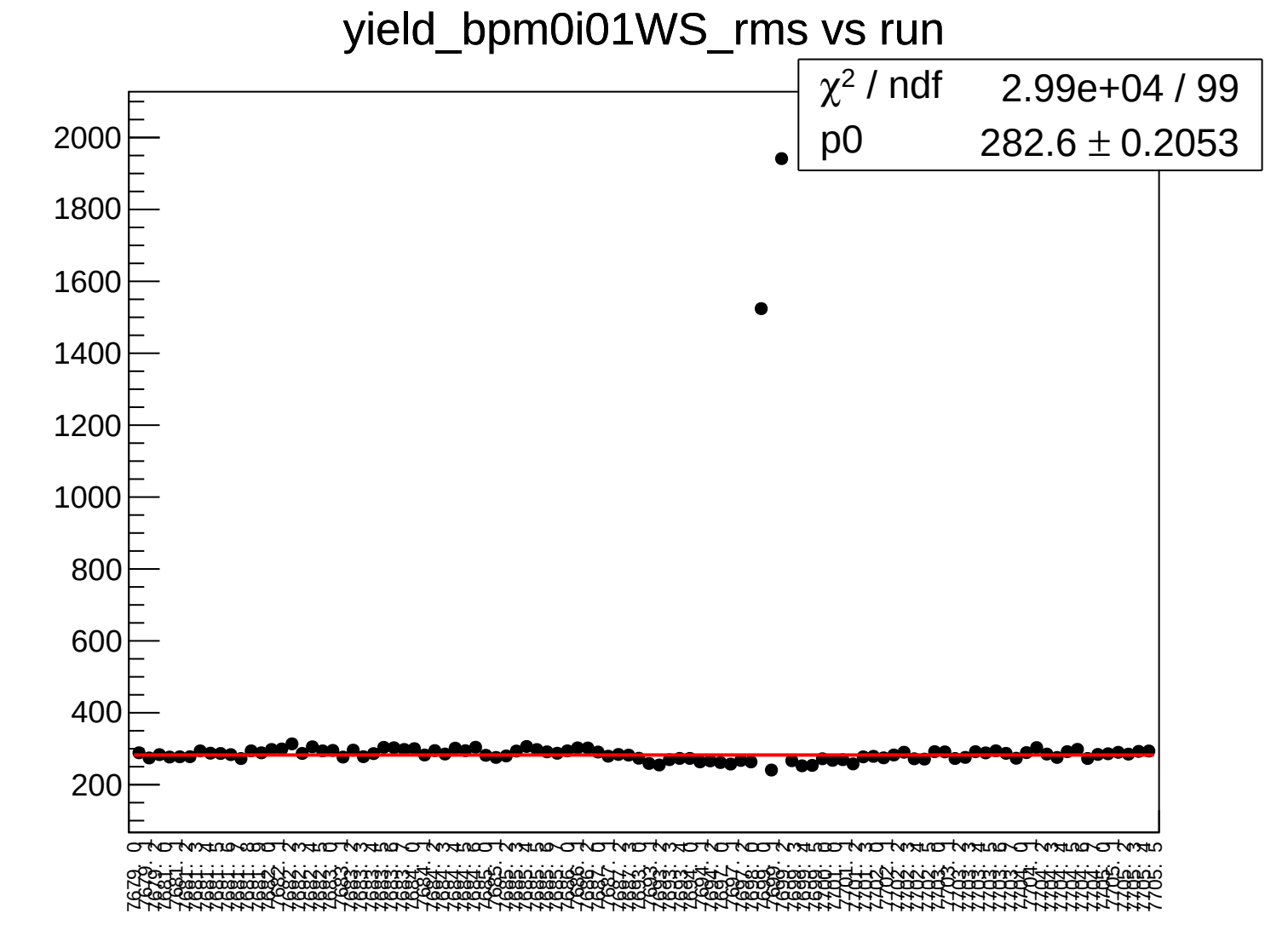

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 8.98e+06 / 99
p0 1.338e+05 ± 0.2277
134
133
132
131
130
129
pull
Entries 100
Mean −190.7
Std Dev 0
0
−500
−1000
−1500
−2000

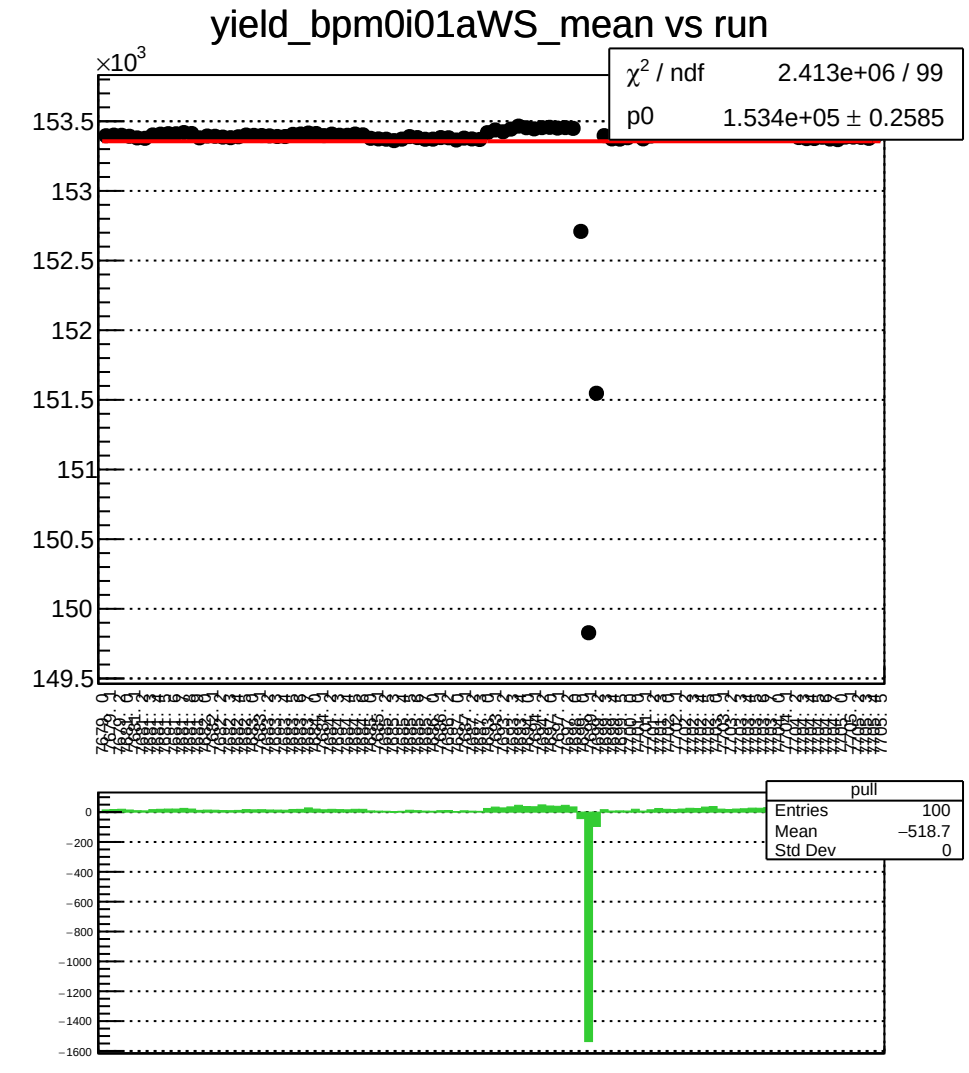

pull1D
Entries 100
Mean 3.829
Std Dev 3.263
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

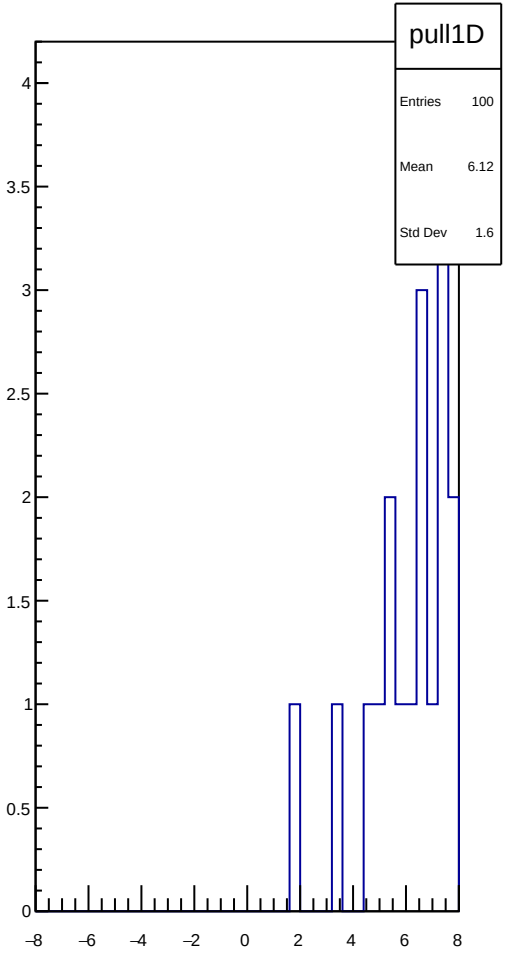

yield_bpm0i07WS_rms vs run
χ² / ndf 4.492e+04 / 99
p0 220.8 ± 0.161
2500
2000
1500
1000
500

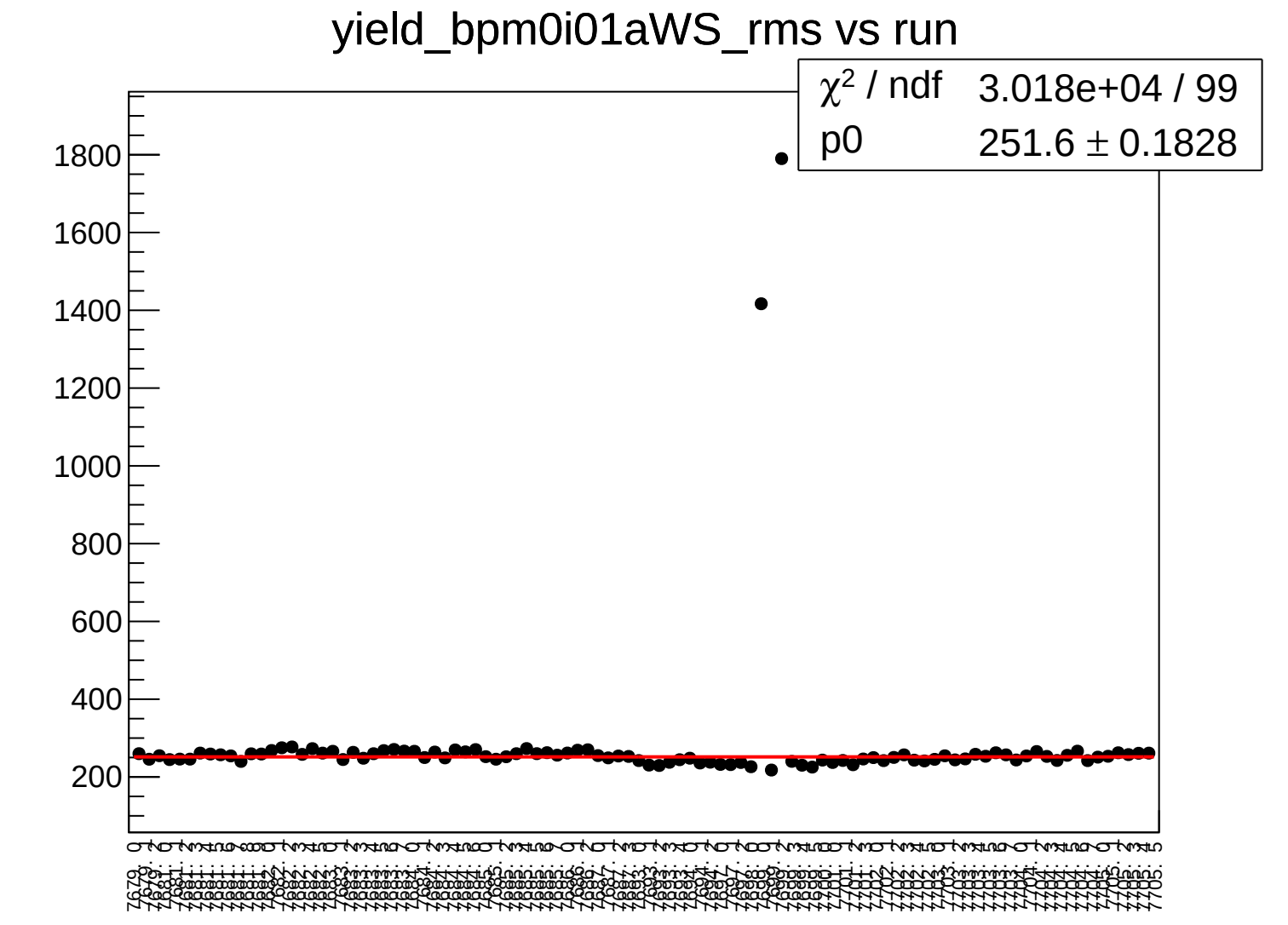

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 2.232e+06 / 99
p0 1.637e+05 ± 0.2903
164
163.5
163
162.5
162
161.5
161
160.5
160
pull
Entries 100
Mean −1424
Std Dev 0
200
0
−200
−400
−600
−800
−1000
−1200
−1400

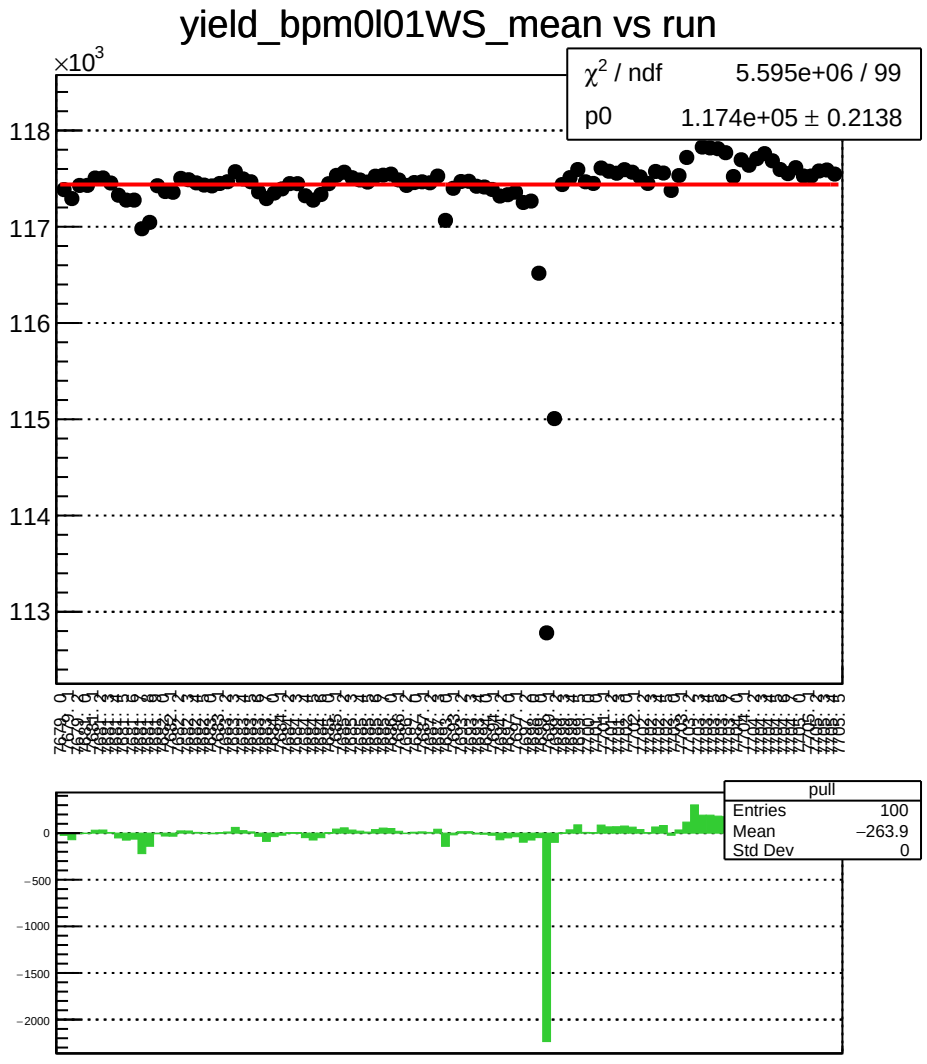

pull1D
Entries 100
Mean −0.7829
Std Dev 4.205
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

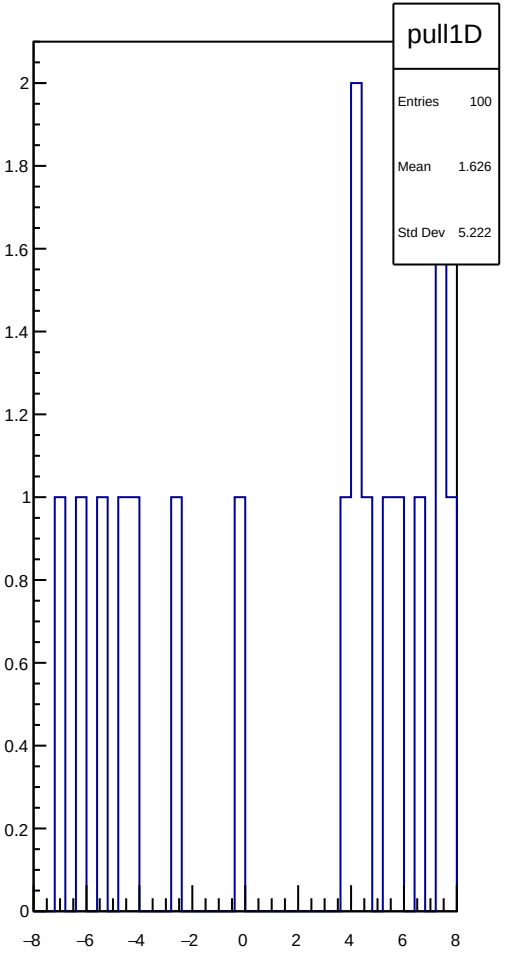

yield_bpm0i01WS_rms vs run
χ² / ndf 2.99e+04 / 99
p0 282.6 ± 0.2053
2000
1800
1600
1400
1200
1000
800
600
400
200

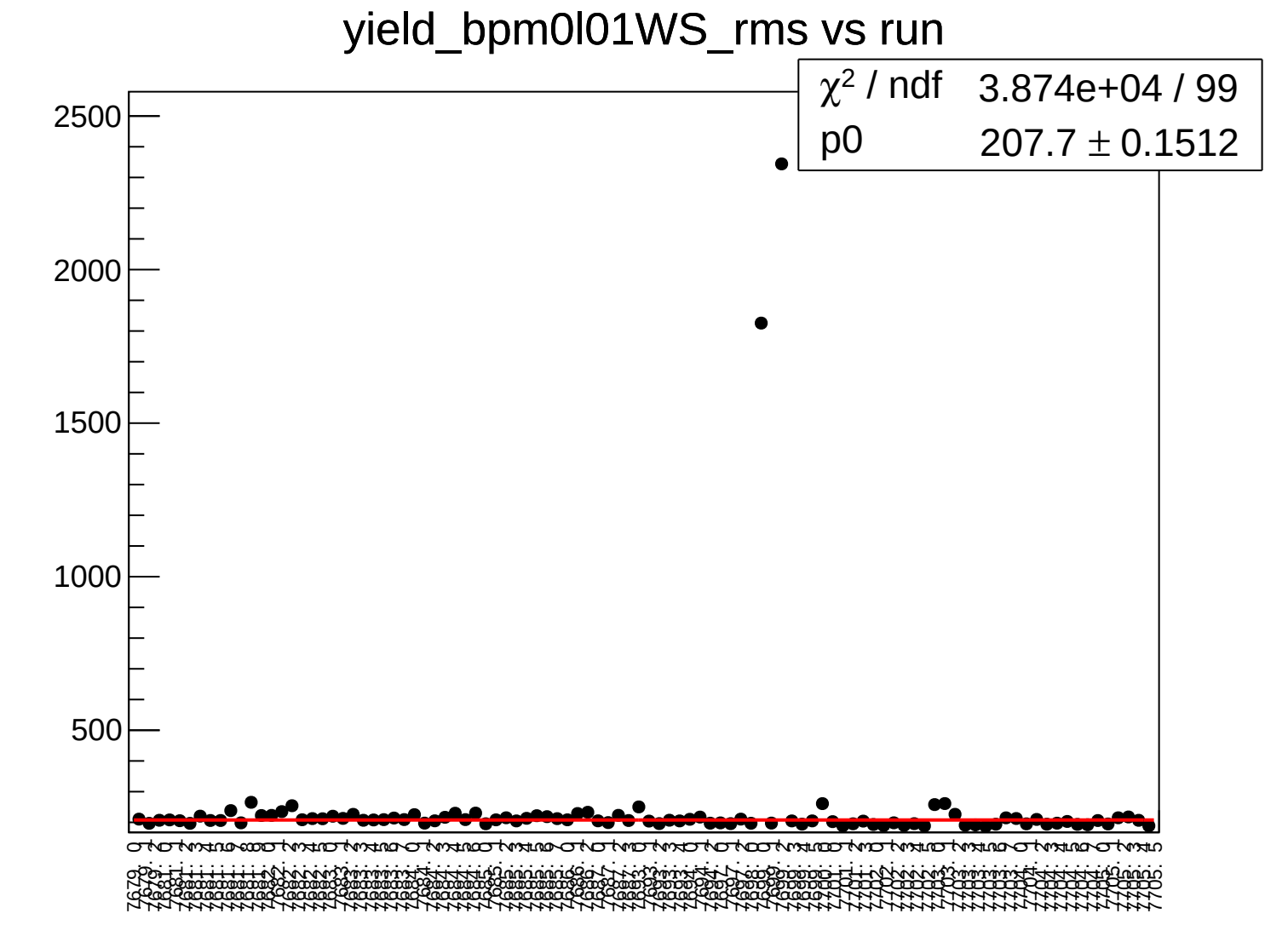

yield_bpm0i01aWS_mean vs run
×10^3
χ^2 / ndf 2.413e+06 / 99
p0 1.534e+05 ± 0.2585
153.5
153
152.5
152
151.5
151
150.5
150
149.5
pull
Entries 100
Mean –518.7
Std Dev 0
0
–200
–400
–600
–800
–1000
–1200
–1400
–1600

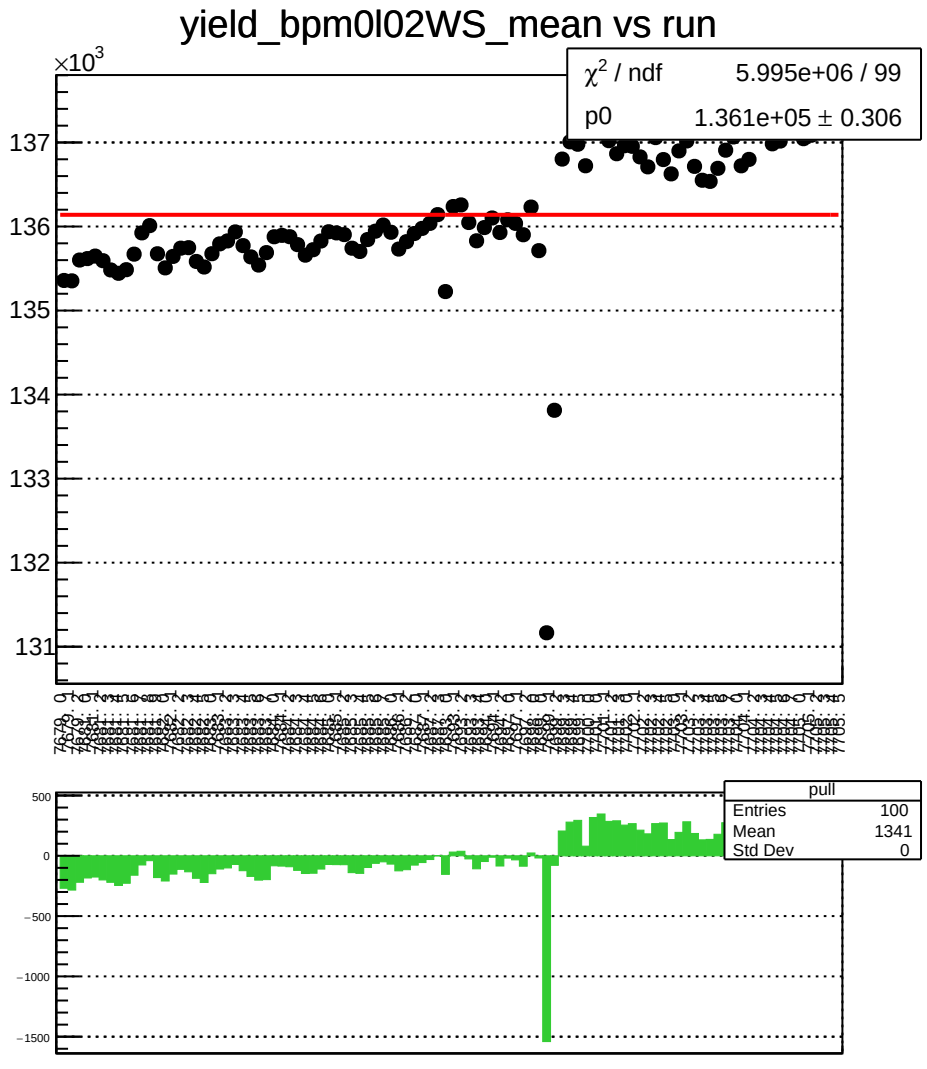

pull1D
Entries 100
Mean 6.12
Std Dev 1.6
4
3.5
3
2.5
2
1.5
1
0.5
0
–8
–6
–4
–2
0
2
4
6
8

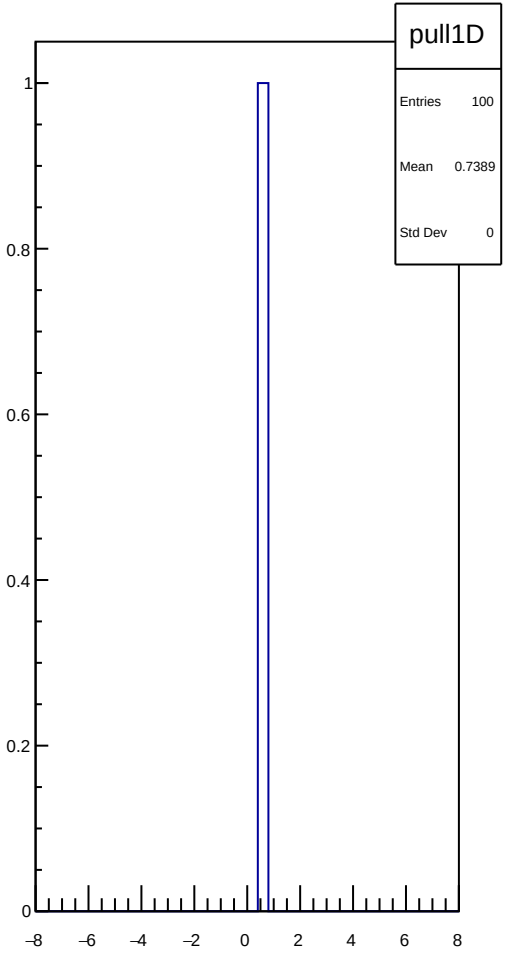

yield_bpm0i01aWS_rms vs run
χ² / ndf 3.018e+04 / 99
p0 251.6 ± 0.1828
1800
1600
1400
1200
1000
800
600
400
200

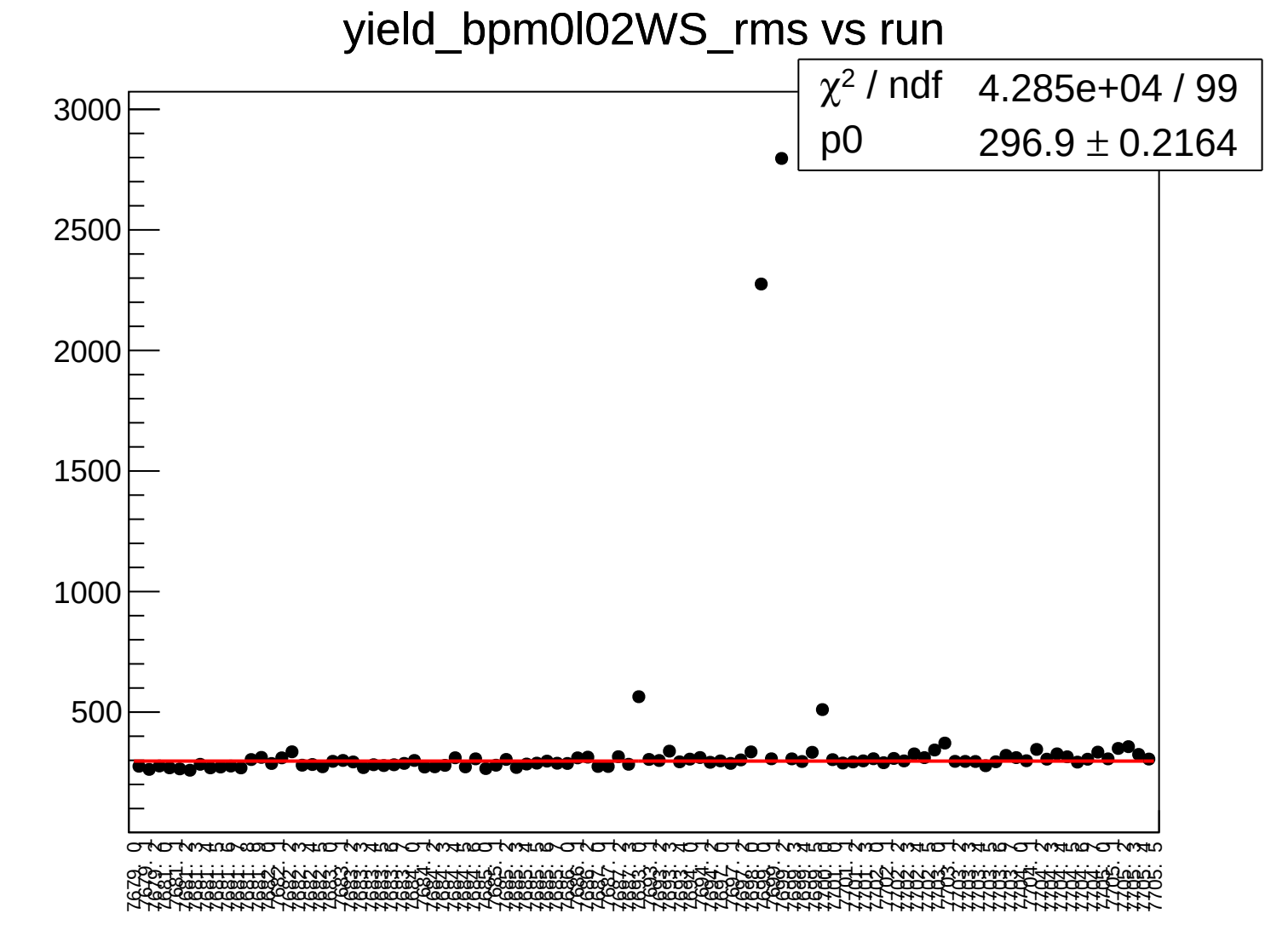

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 5.595e+06 / 99
p0 1.174e+05 ± 0.2138
118
117
116
115
114
113
pull
Entries 100
Mean −263.9
Std Dev 0
0
−500
−1000
−1500
−2000

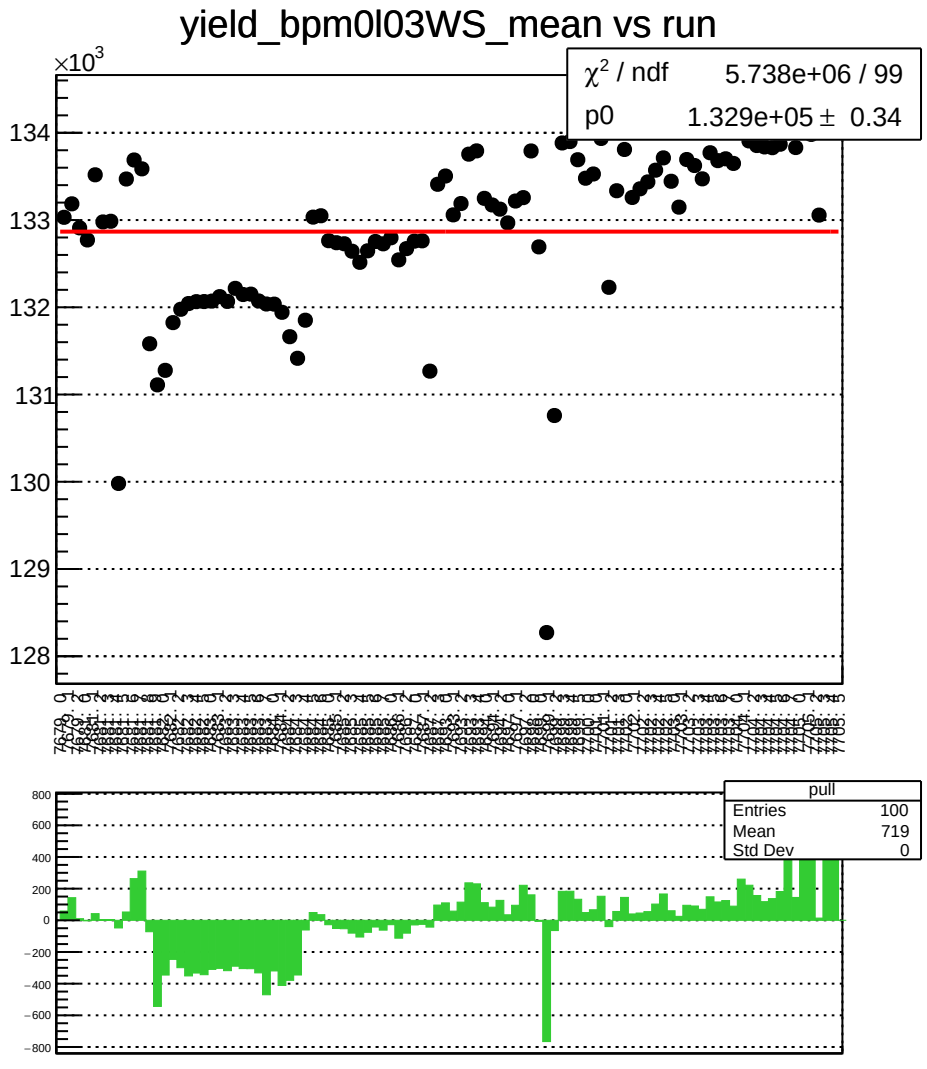

pull1D
Entries 100
Mean 1.626
Std Dev 5.222
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

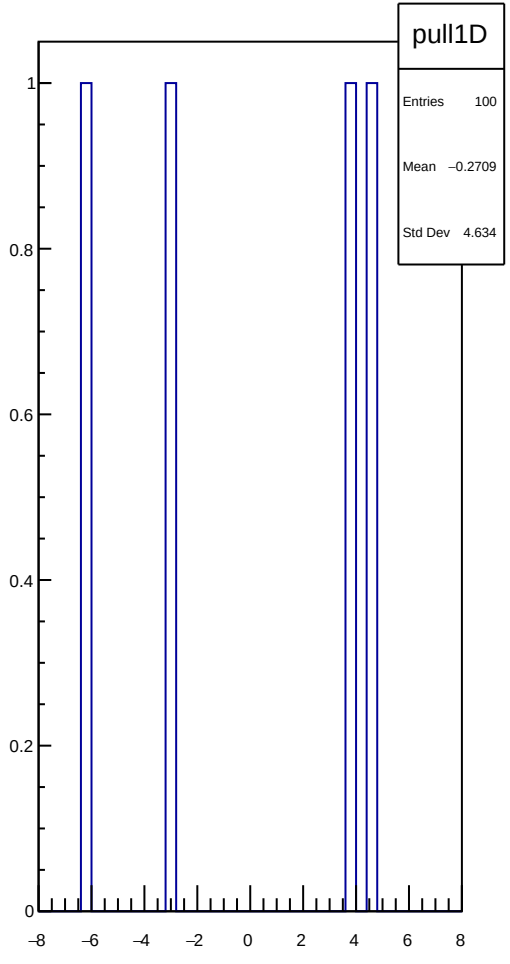

yield_bpm0l01WS_rms vs run
χ² / ndf 3.874e+04 / 99
p0 207.7 ± 0.1512
2500
2000
1500
1000
500

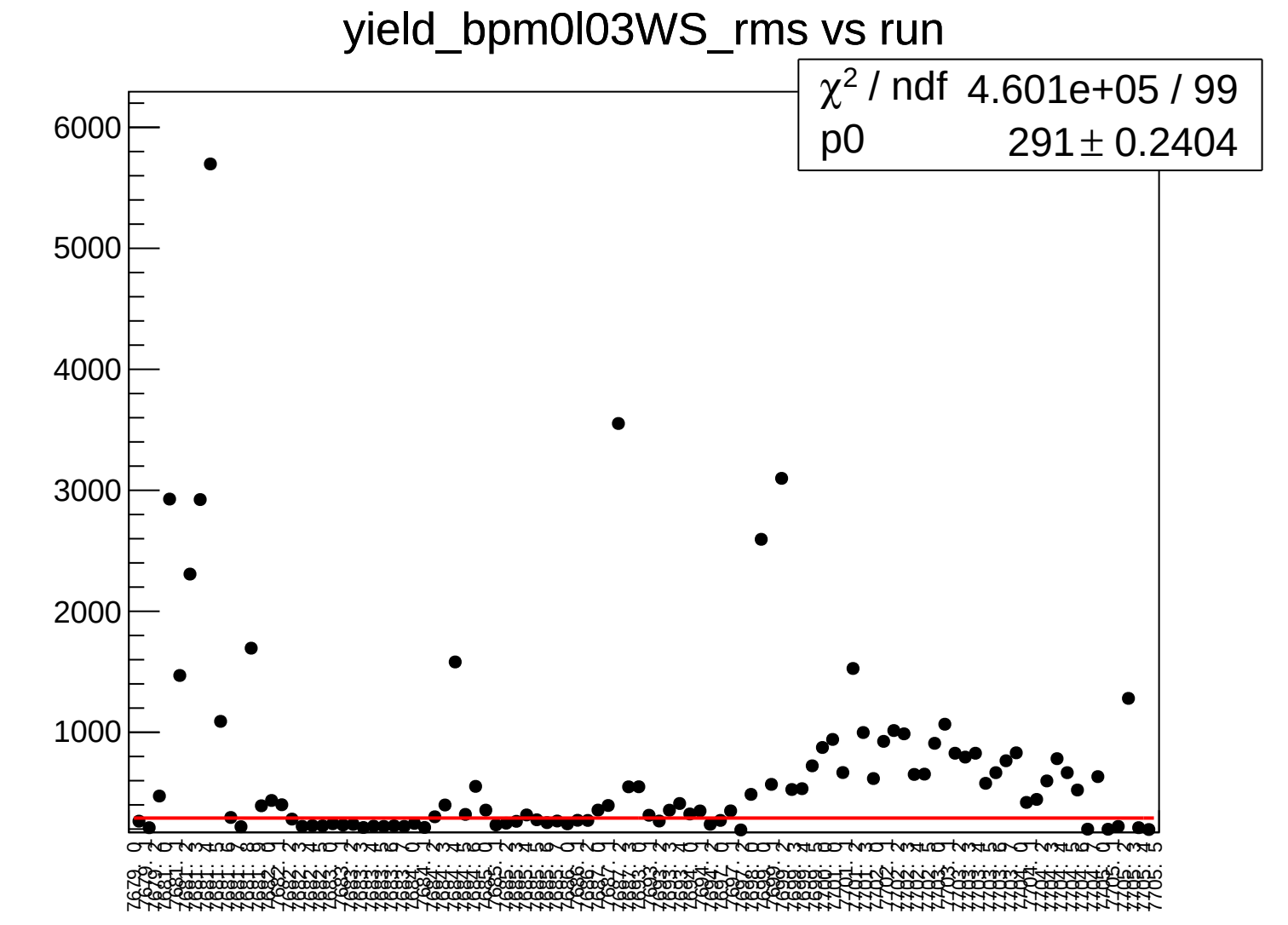

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 5.995e+06 / 99
p0 1.361e+05 ± 0.306
137
136
135
134
133
132
131
pull
Entries 100
Mean 1341
Std Dev 0
500
0
−500
−1000
−1500

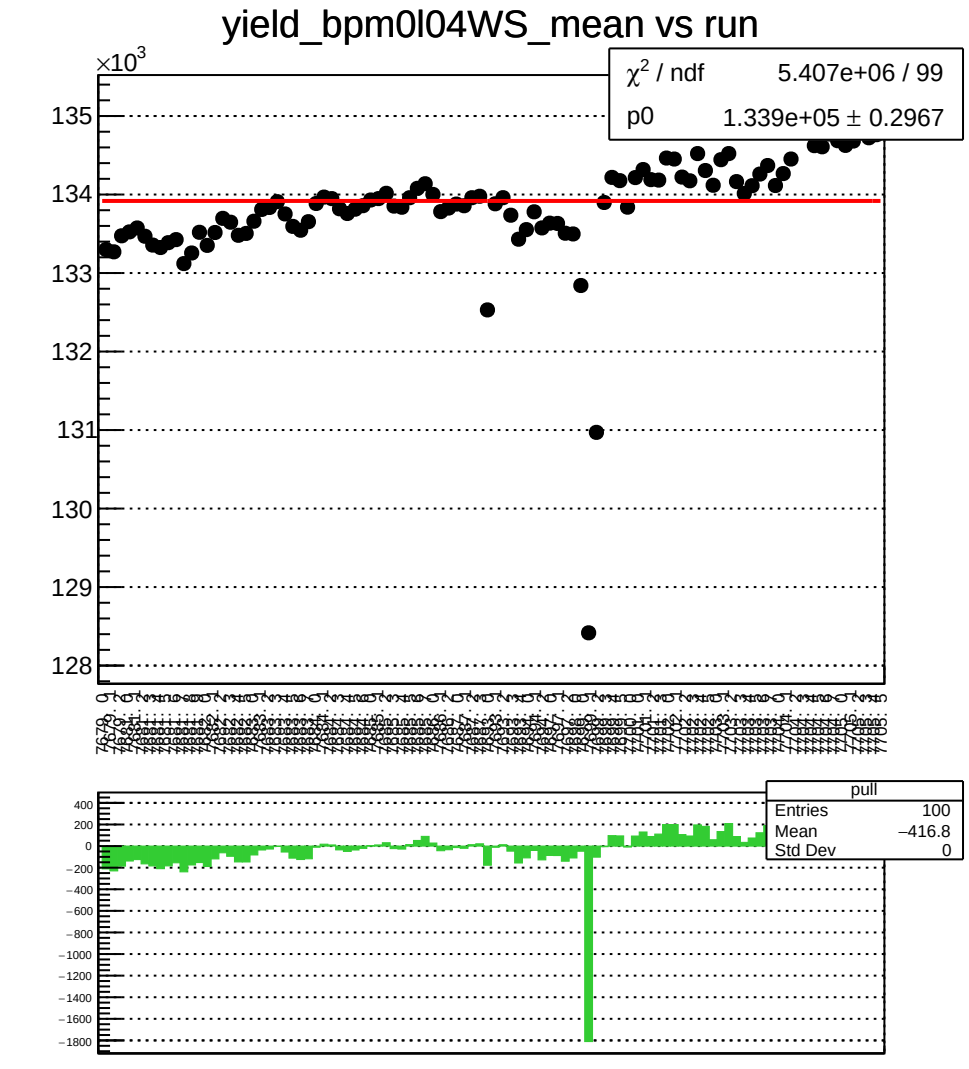

pull1D
Entries 100
Mean 0.7389
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

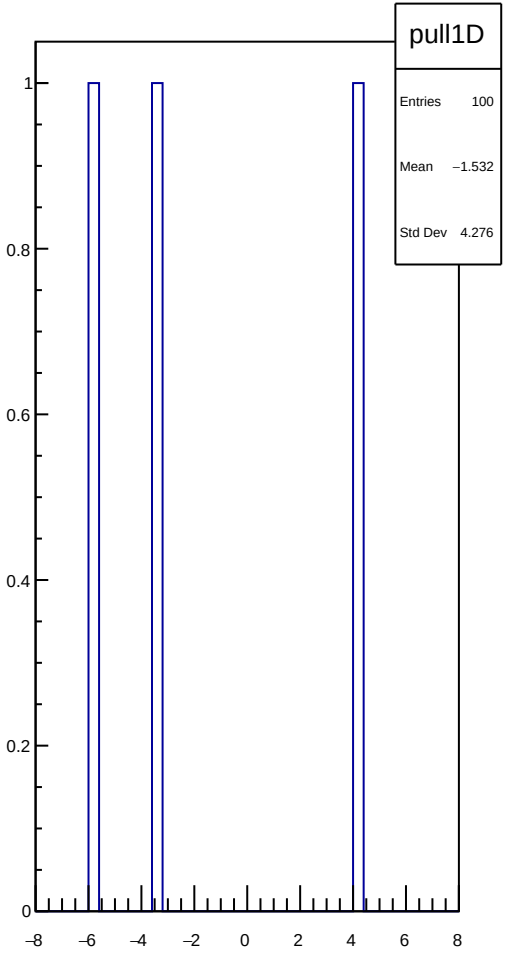

yield_bpm0l02WS_rms vs run
χ² / ndf 4.285e+04 / 99
p0 296.9 ± 0.2164
3000
2500
2000
1500
1000
500

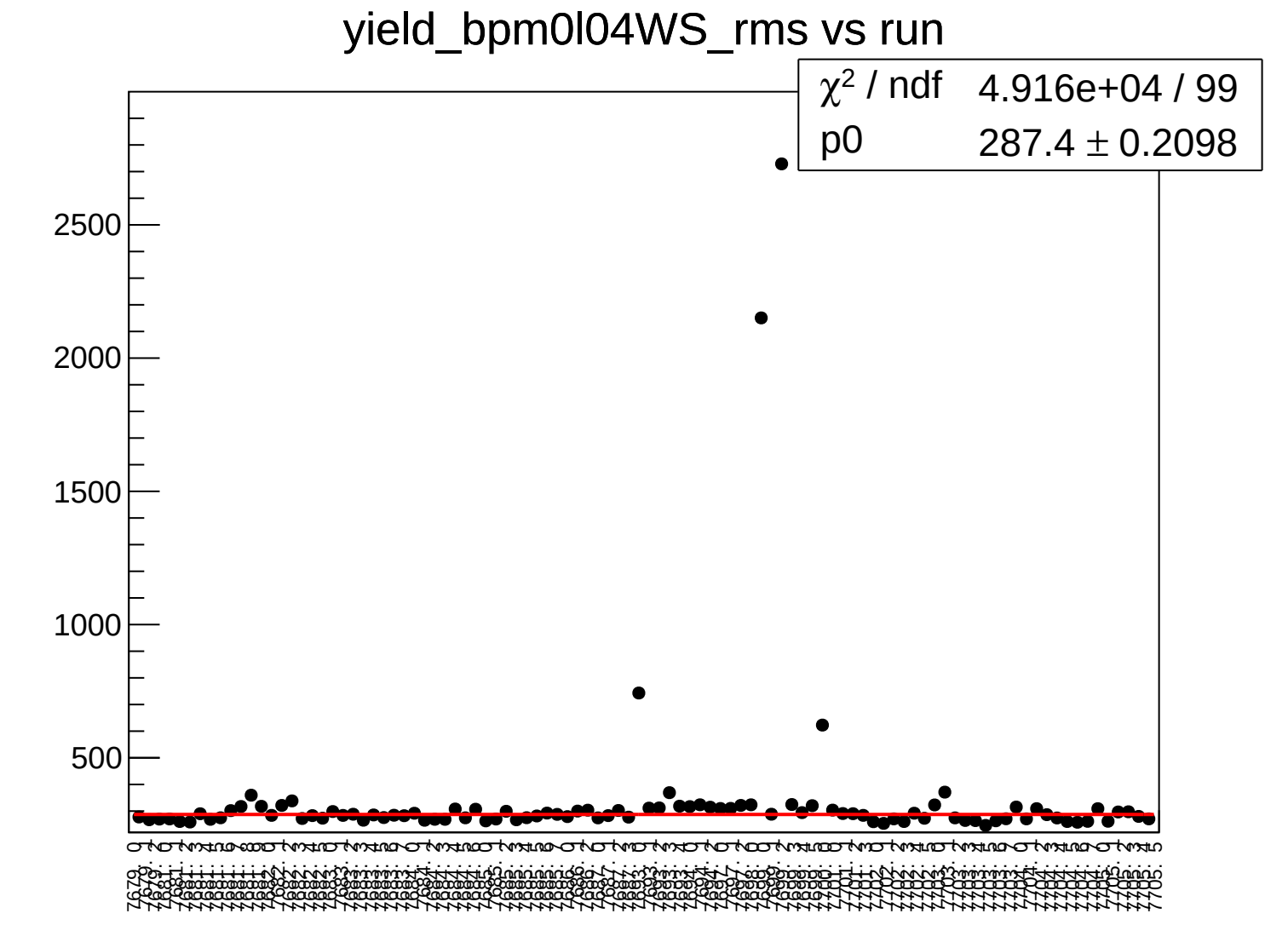

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 5.738e+06 / 99
p0 1.329e+05 ± 0.34
134
133
132
131
130
129
128
pull
Entries 100
Mean 719
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

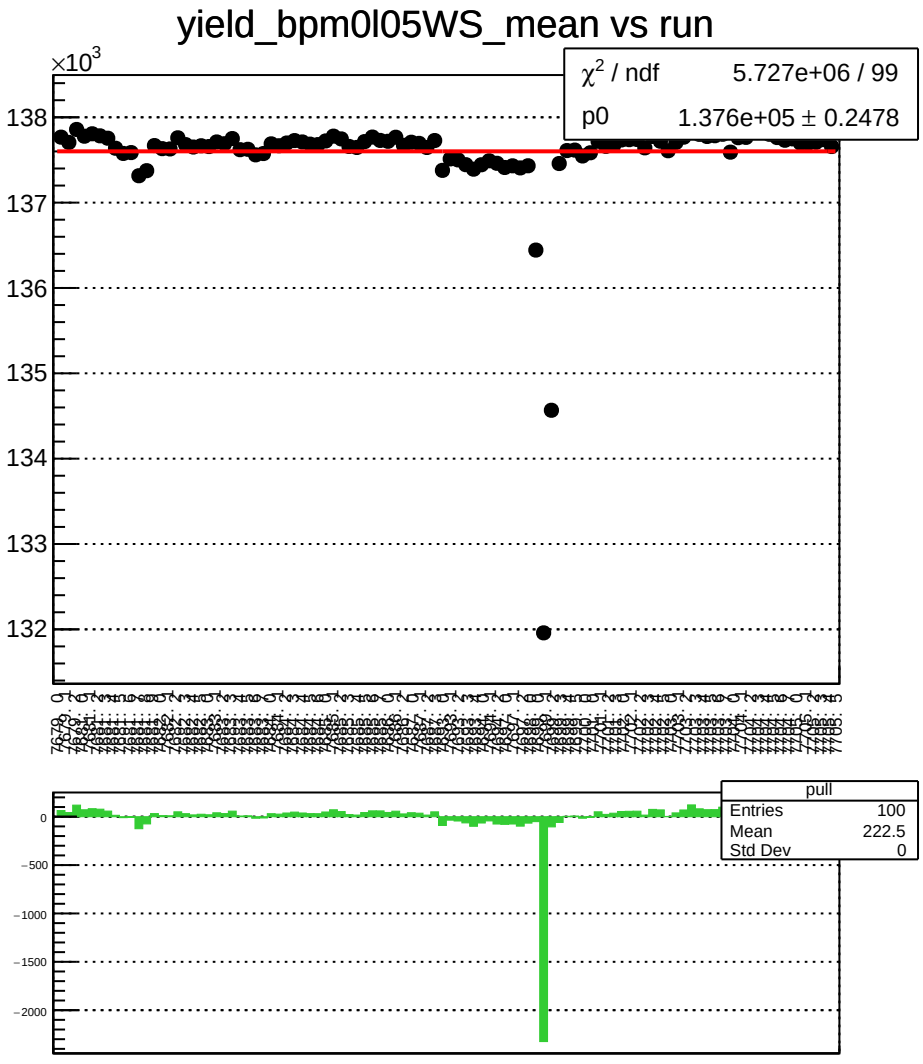

pull1D
Entries 100
Mean −0.2709
Std Dev 4.634
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

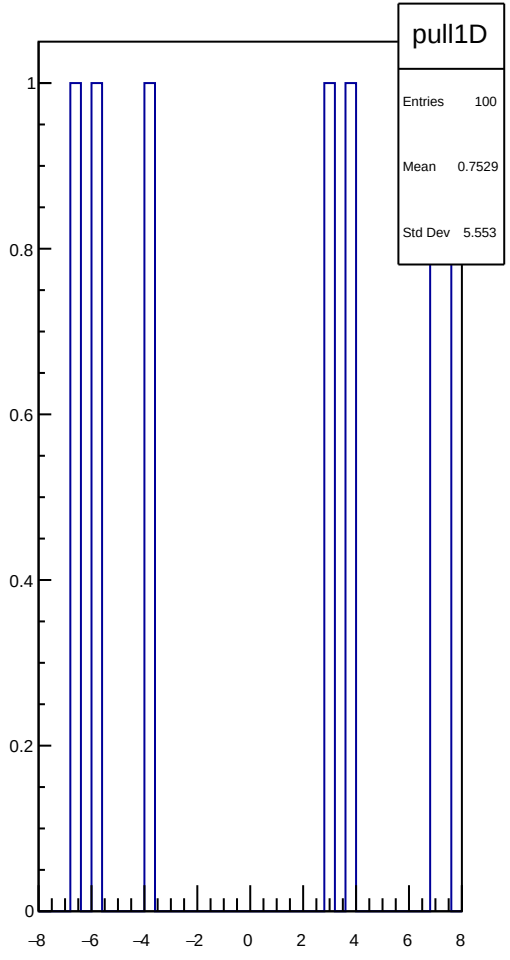

yield_bpm0l03WS_rms vs run
χ² / ndf 4.601e+05 / 99
p0 291 ± 0.2404
6000
5000
4000
3000
2000
1000

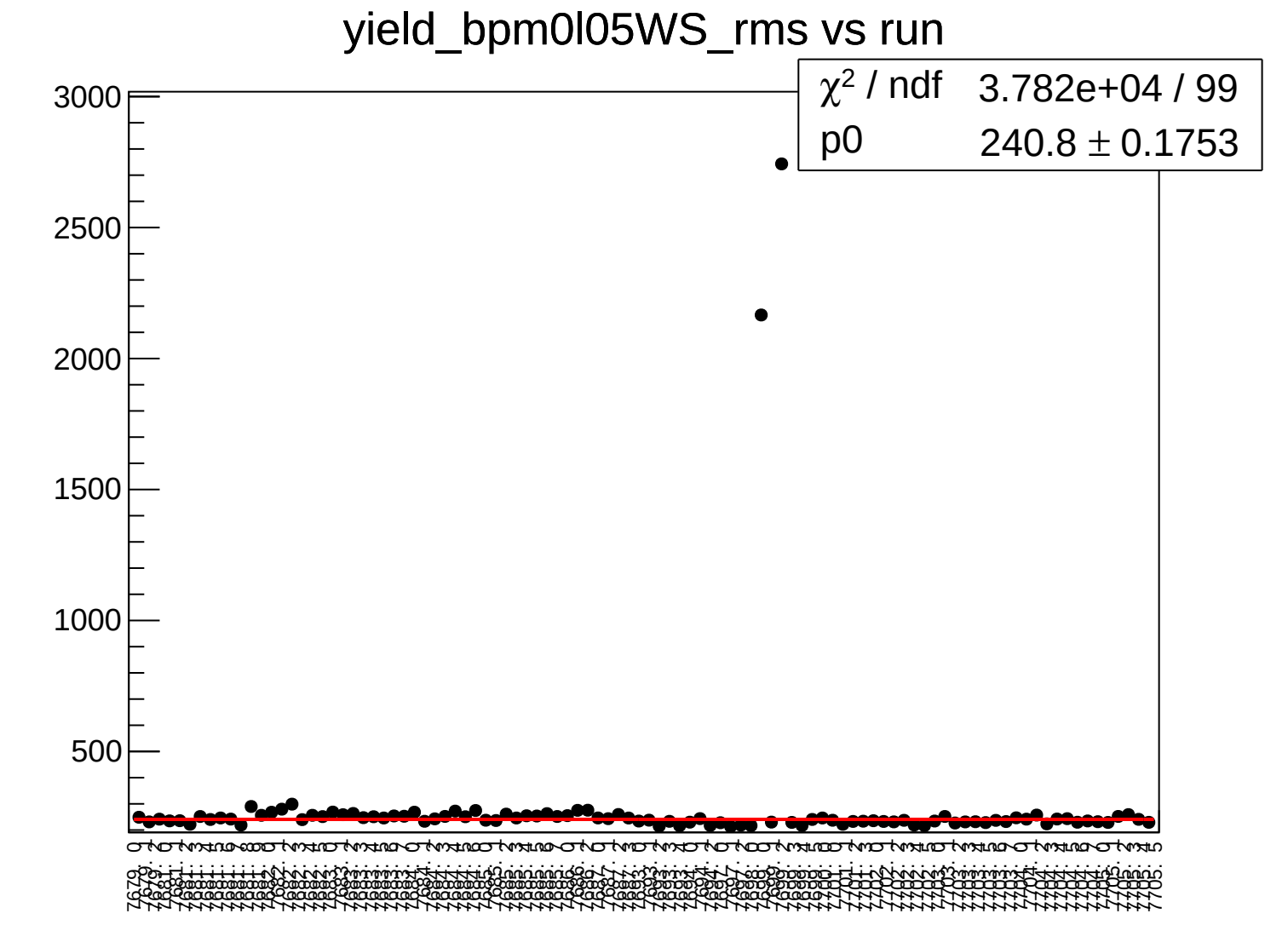

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 5.407e+06 / 99
p0 1.339e+05 ± 0.2967
135
134
133
132
131
130
129
128
pull
Entries 100
Mean −416.8
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
−1800

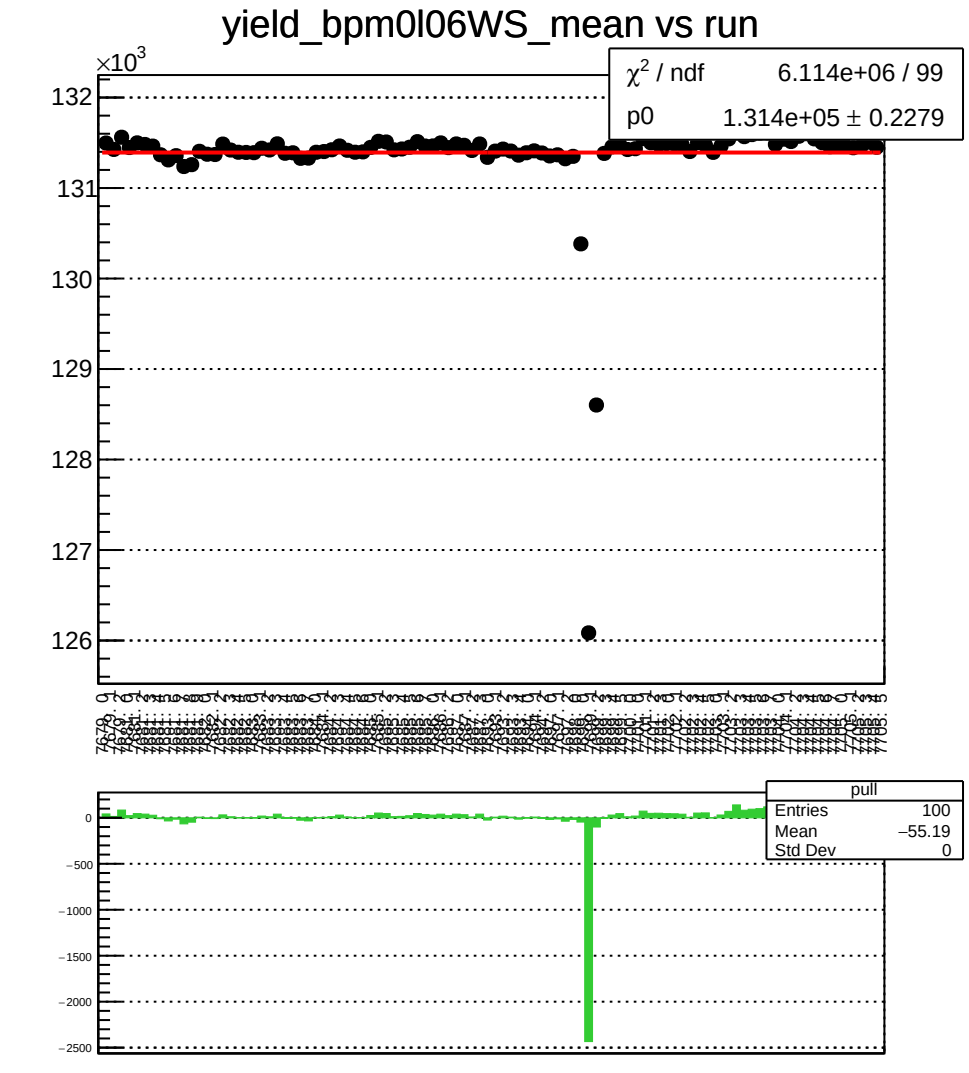

pull1D
Entries 100
Mean −1.532
Std Dev 4.276
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

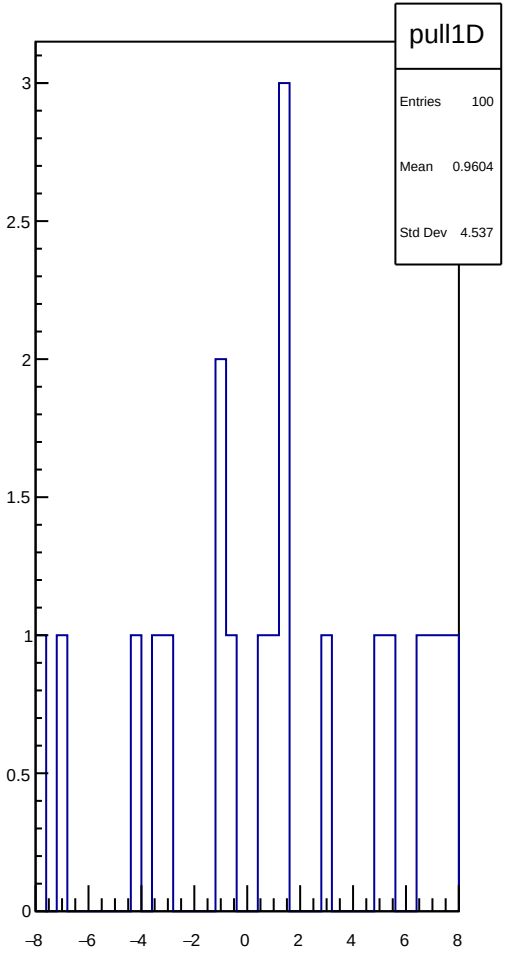

yield_bpm0l04WS_rms vs run
χ² / ndf 4.916e+04 / 99
p0 287.4 ± 0.2098
2500
2000
1500
1000
500

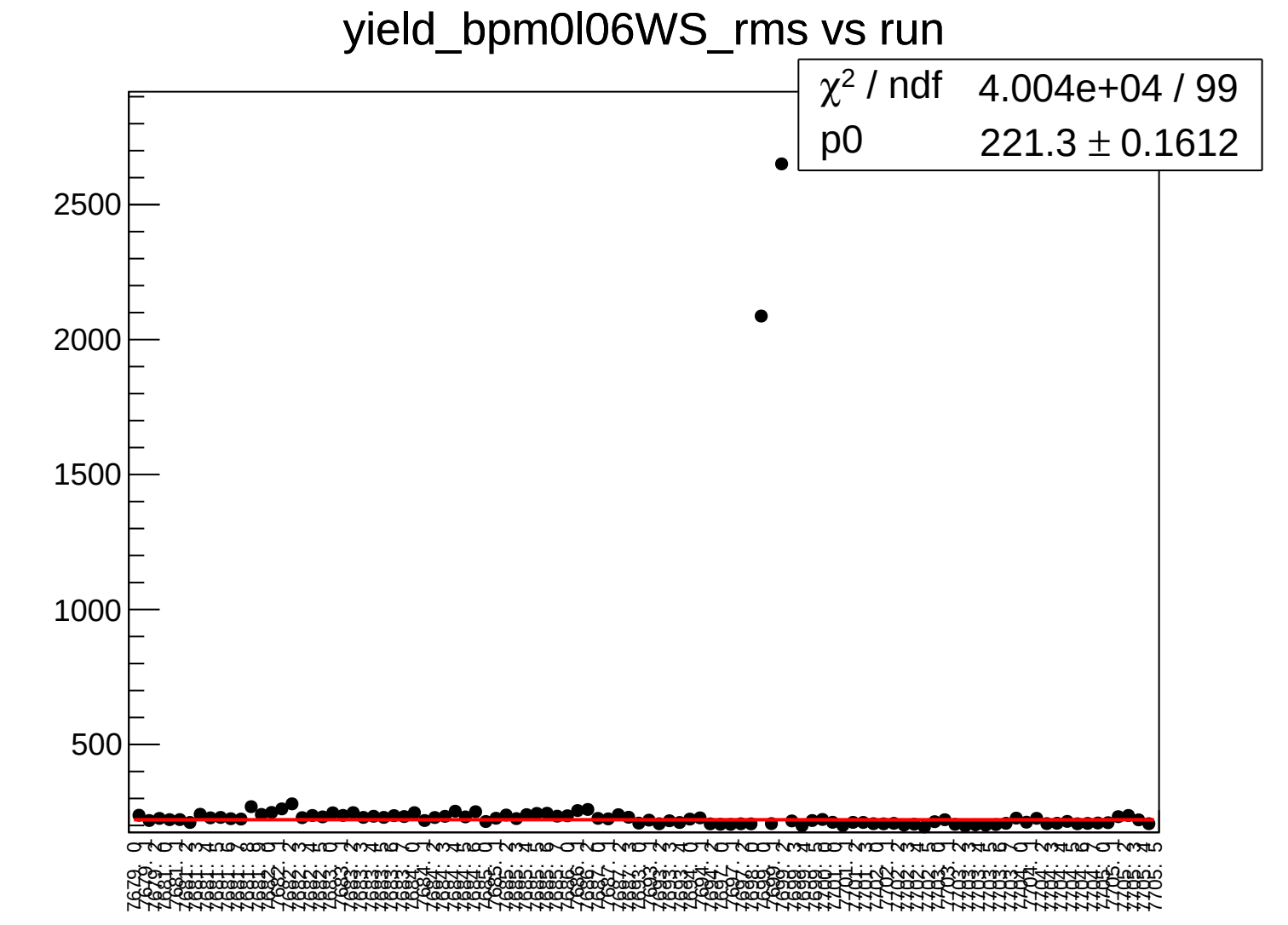

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 5.727e+06 / 99
p0 1.376e+05 ± 0.2478
138
137
136
135
134
133
132
pull
Entries 100
Mean 222.5
Std Dev 0
0
−500
−1000
−1500
−2000

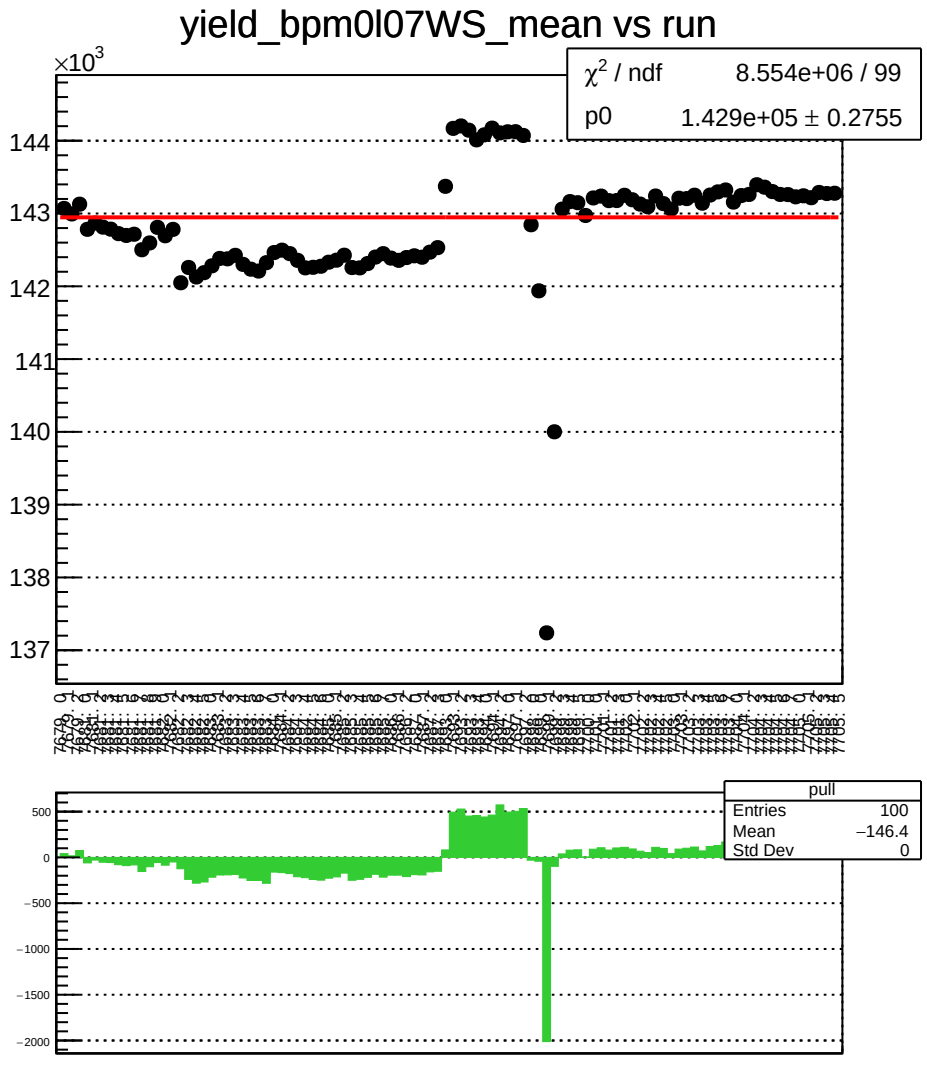

pull1D
Entries 100
Mean 0.7529
Std Dev 5.553
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

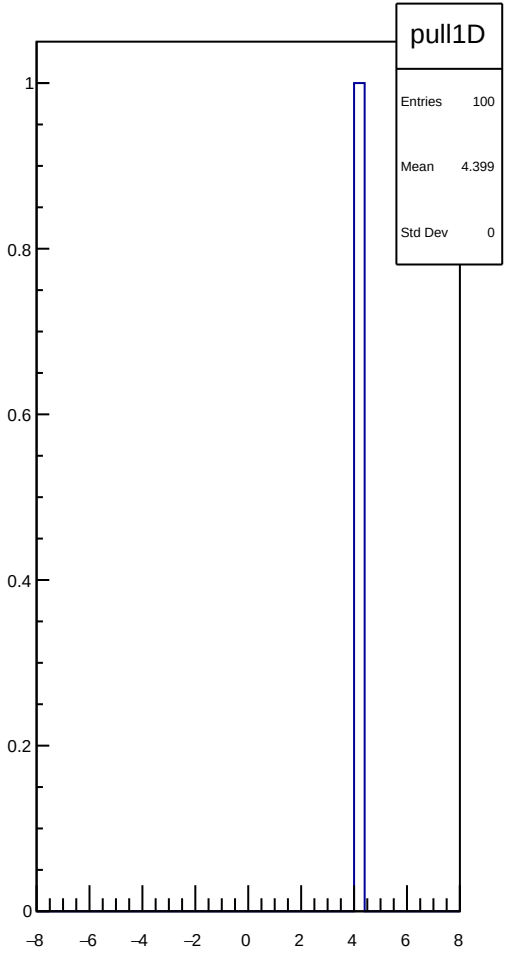

yield_bpm0l05WS_rms vs run
χ² / ndf 3.782e+04 / 99
p0 240.8 ± 0.1753
3000
2500
2000
1500
1000
500

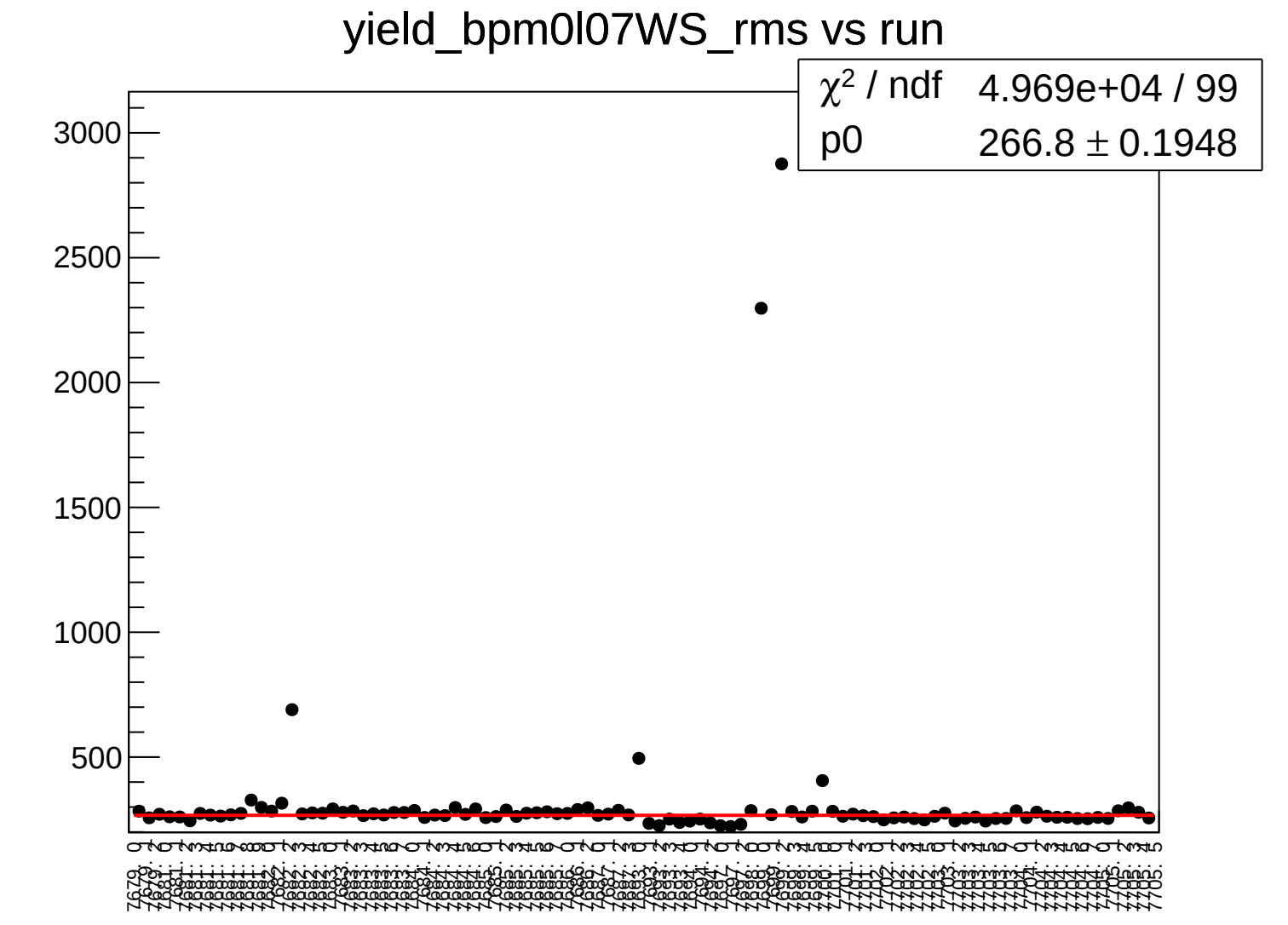

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 6.114e+06 / 99
p0 1.314e+05 ± 0.2279
132
131
130
129
128
127
126
pull
Entries 100
Mean −55.19
Std Dev 0
0
−500
−1000
−1500
−2000
−2500

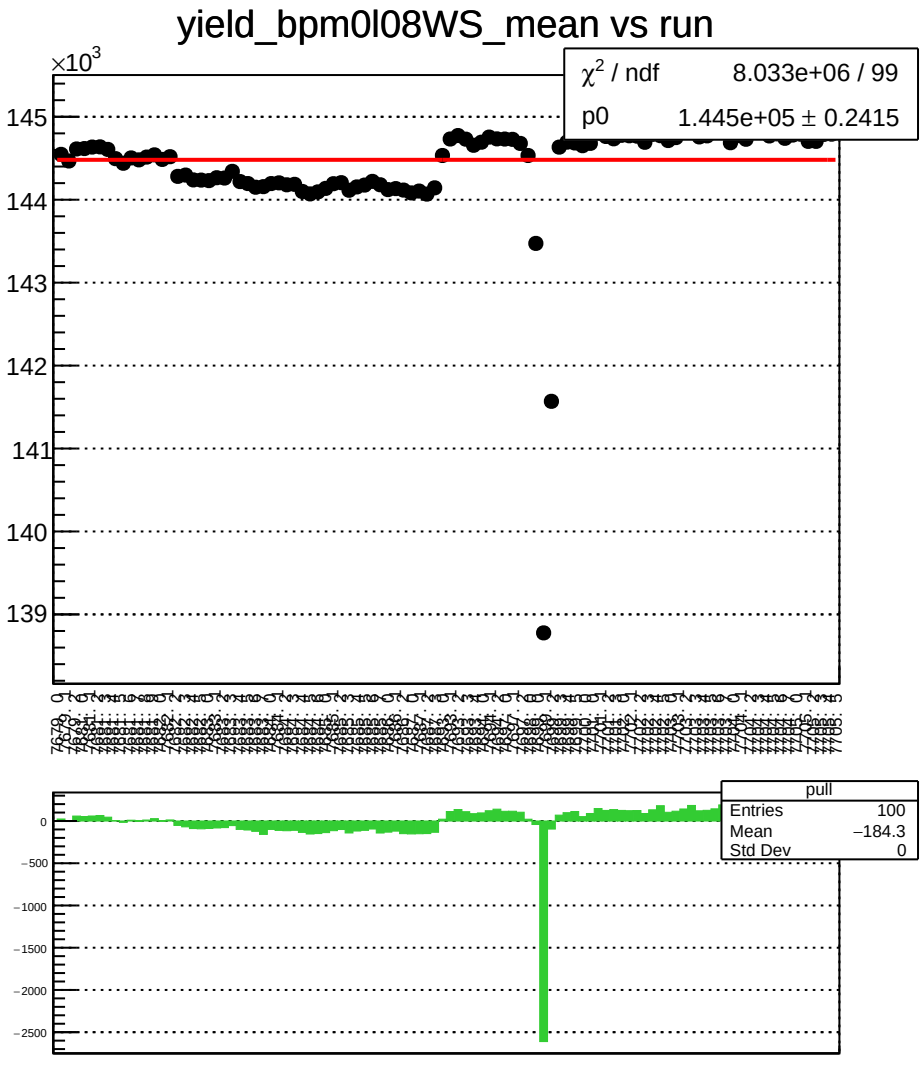

pull1D
Entries 100
Mean 0.9604
Std Dev 4.537
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

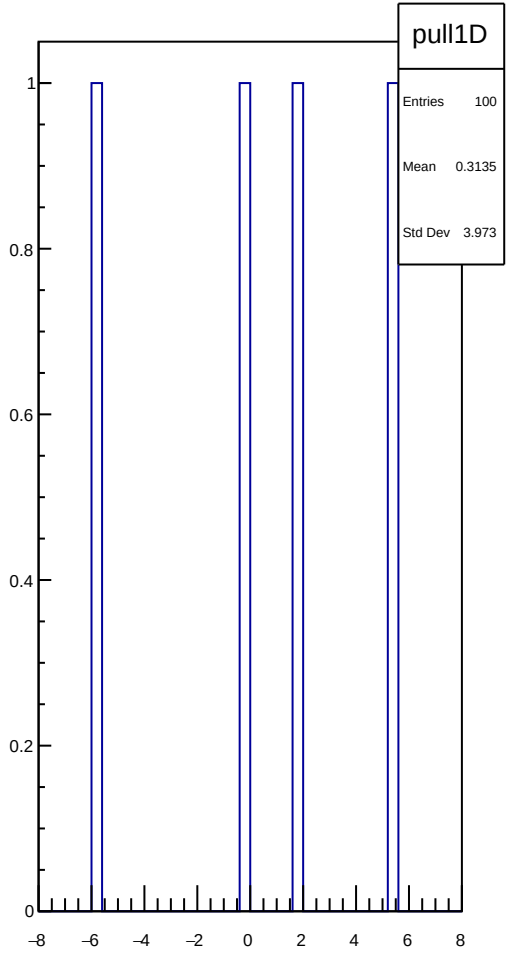

yield_bpm0l06WS_rms vs run
χ² / ndf 4.004e+04 / 99
p0 221.3 ± 0.1612
2500
2000
1500
1000
500

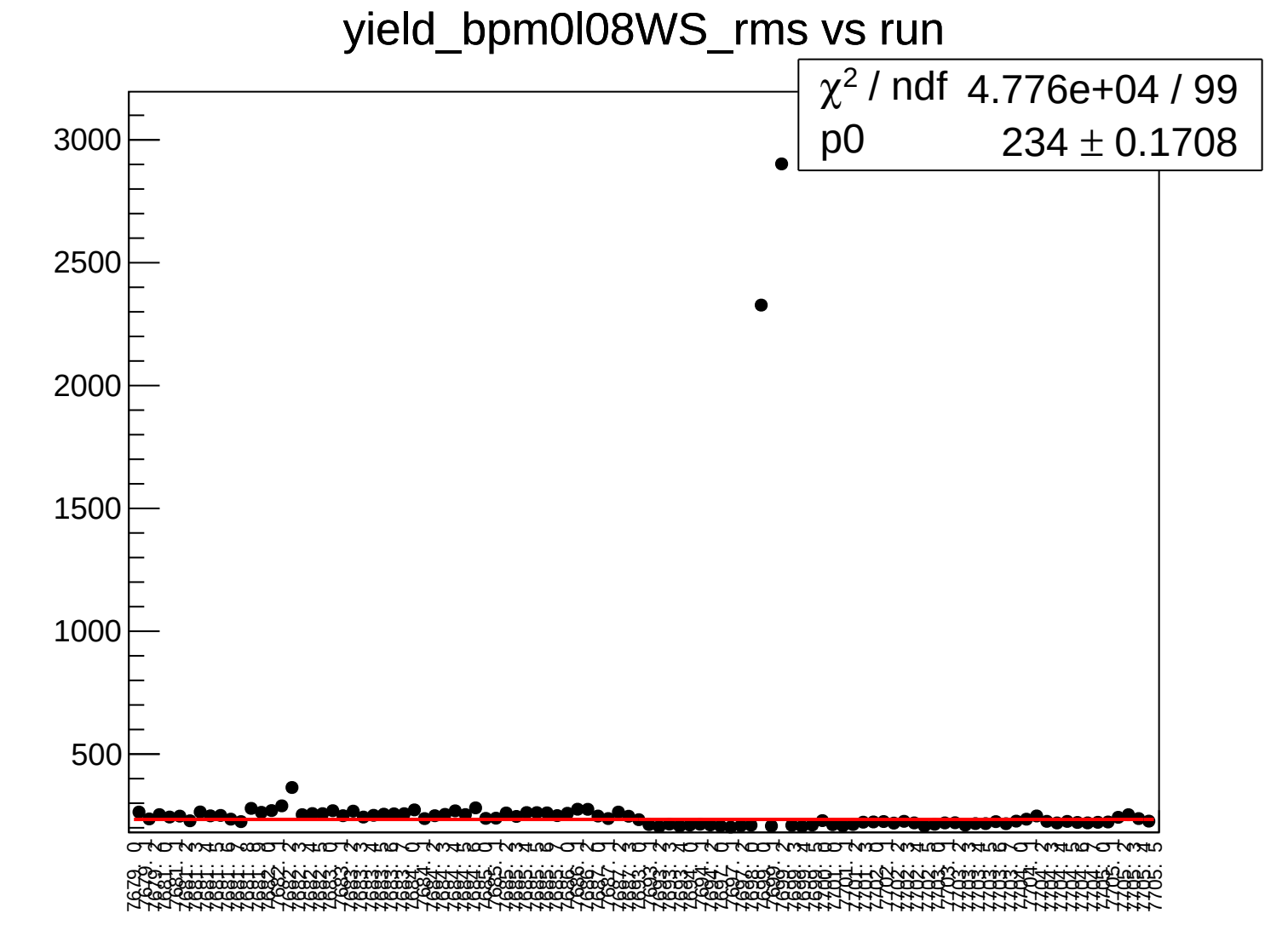

yield_bpm0l07WS_mean vs run
×10^3
χ^2 / ndf 8.554e+06 / 99
p0 1.429e+05 ± 0.2755
144
143
142
141
140
139
138
137
pull
Entries 100
Mean −146.4
Std Dev 0
500
0
−500
−1000
−1500
−2000

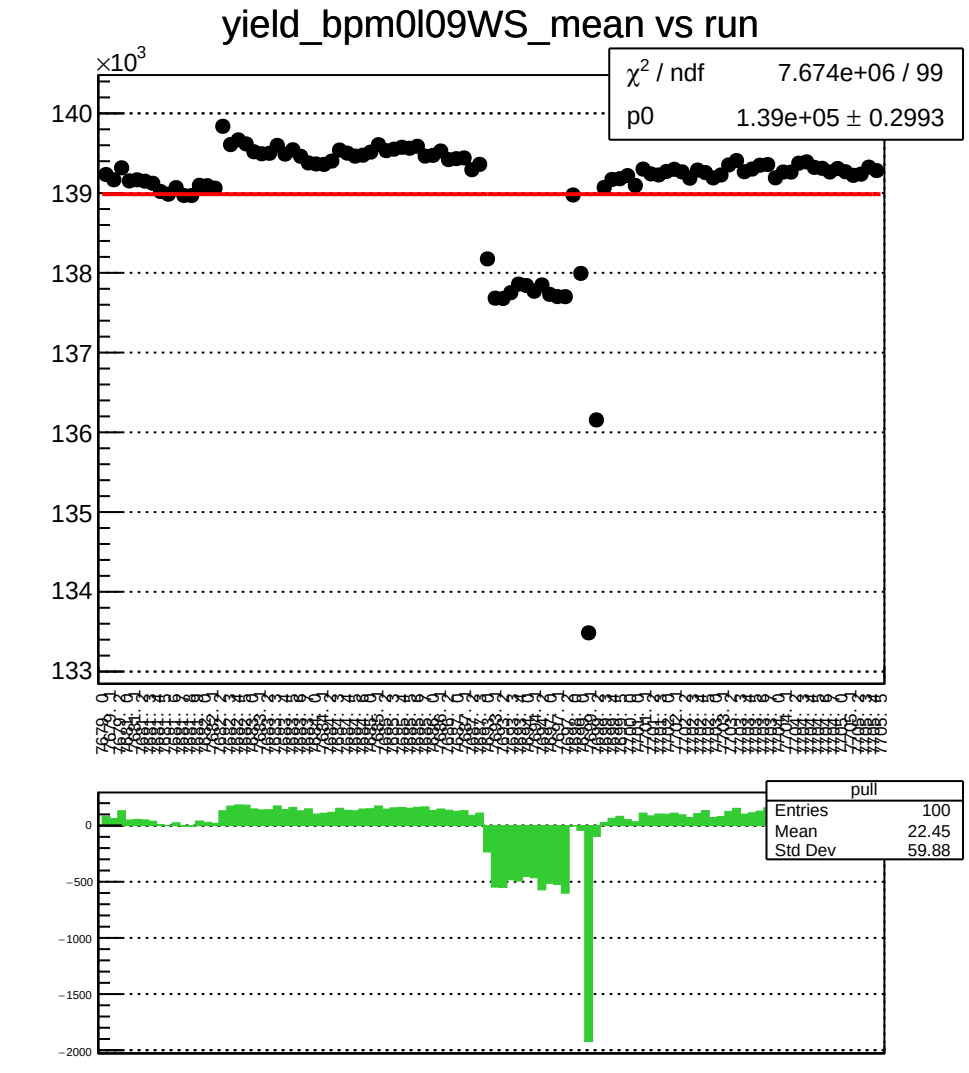

pull1D
Entries 100
Mean 4.399
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

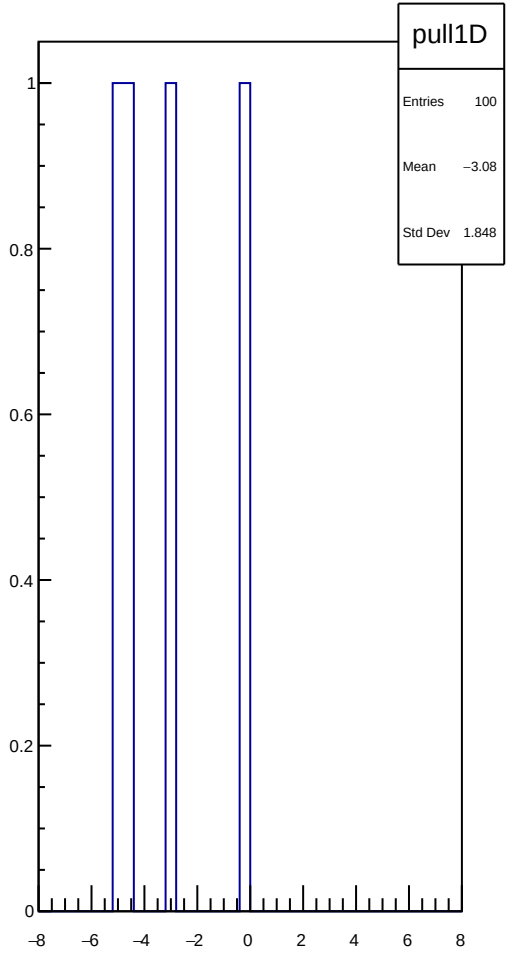

yield_bpm0l07WS_rms vs run
χ² / ndf 4.969e+04 / 99
p0 266.8 ± 0.1948
3000
2500
2000
1500
1000
500

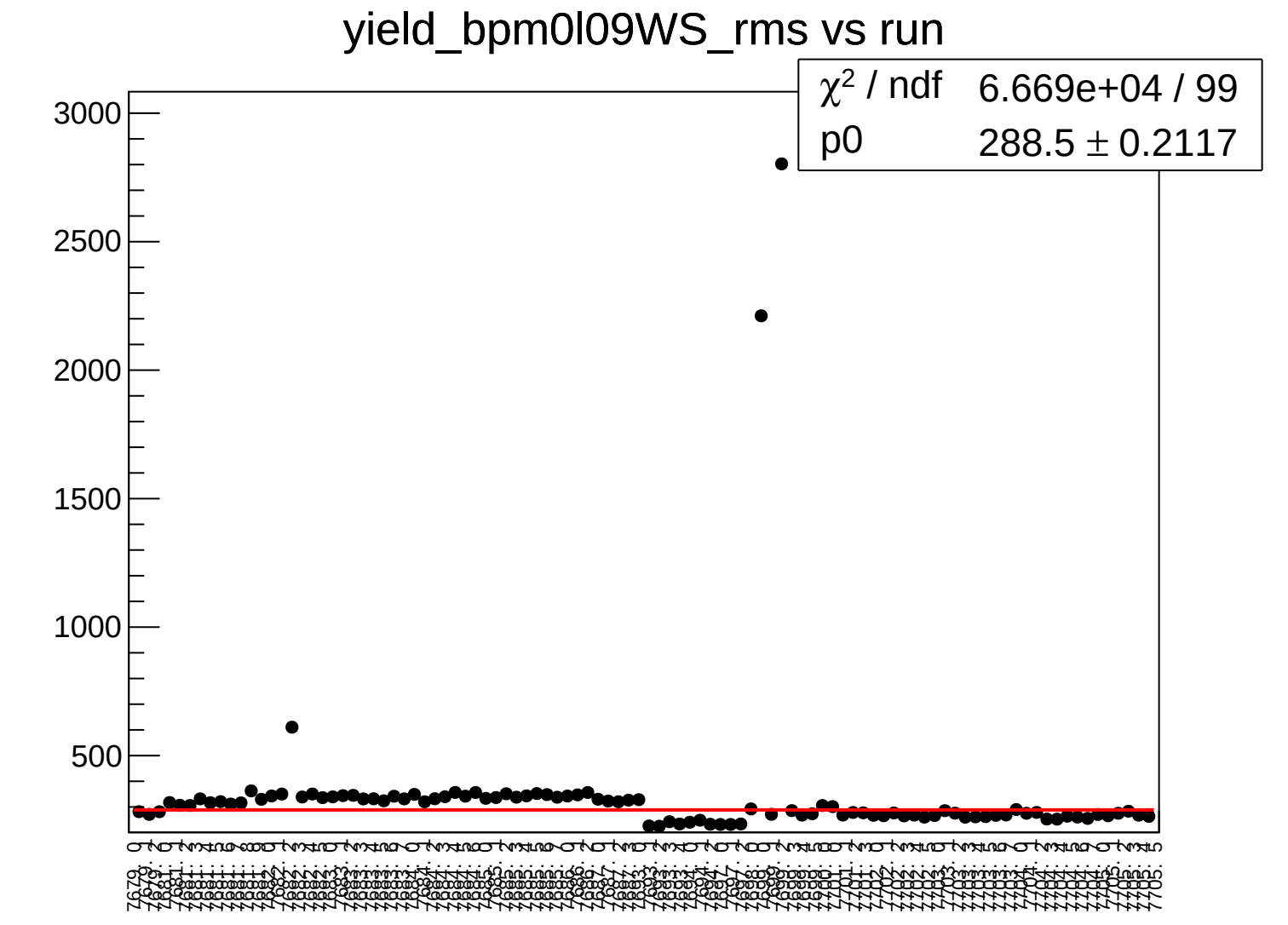

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 8.033e+06 / 99
p0 1.445e+05 ± 0.2415
145
144
143
142
141
140
139
pull
Entries 100
Mean −184.3
Std Dev 0
0
−500
−1000
−1500
−2000
−2500

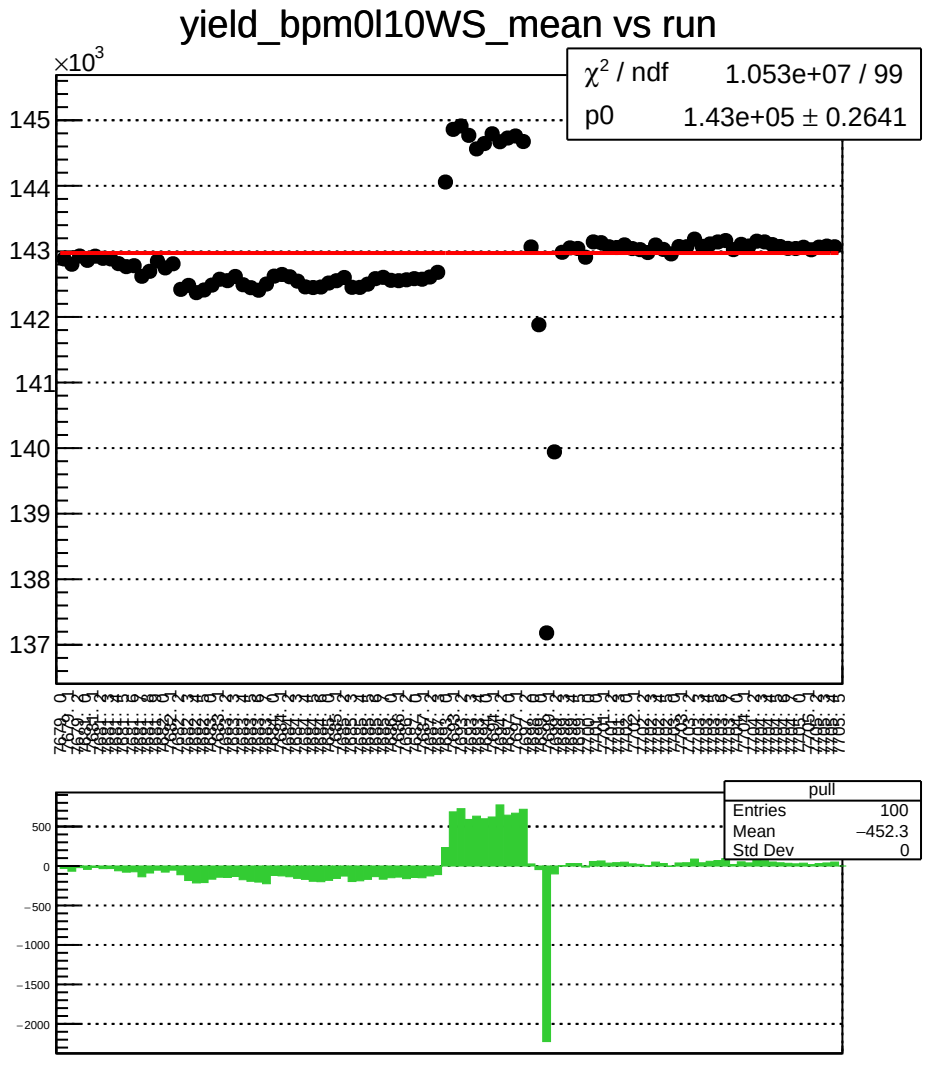

pull1D
Entries 100
Mean 0.3135
Std Dev 3.973
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

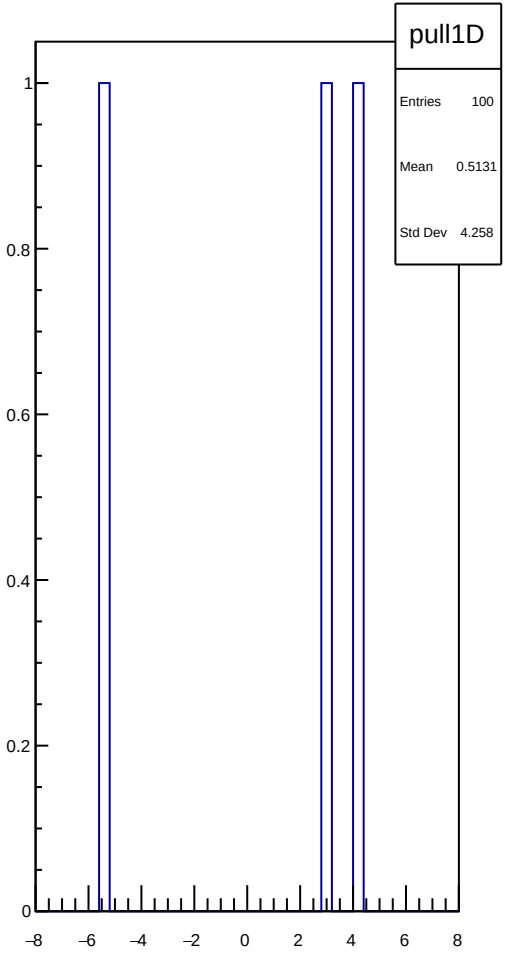

yield_bpm0l08WS_rms vs run
χ² / ndf 4.776e+04 / 99
p0 234 ± 0.1708
3000
2500
2000
1500
1000
500

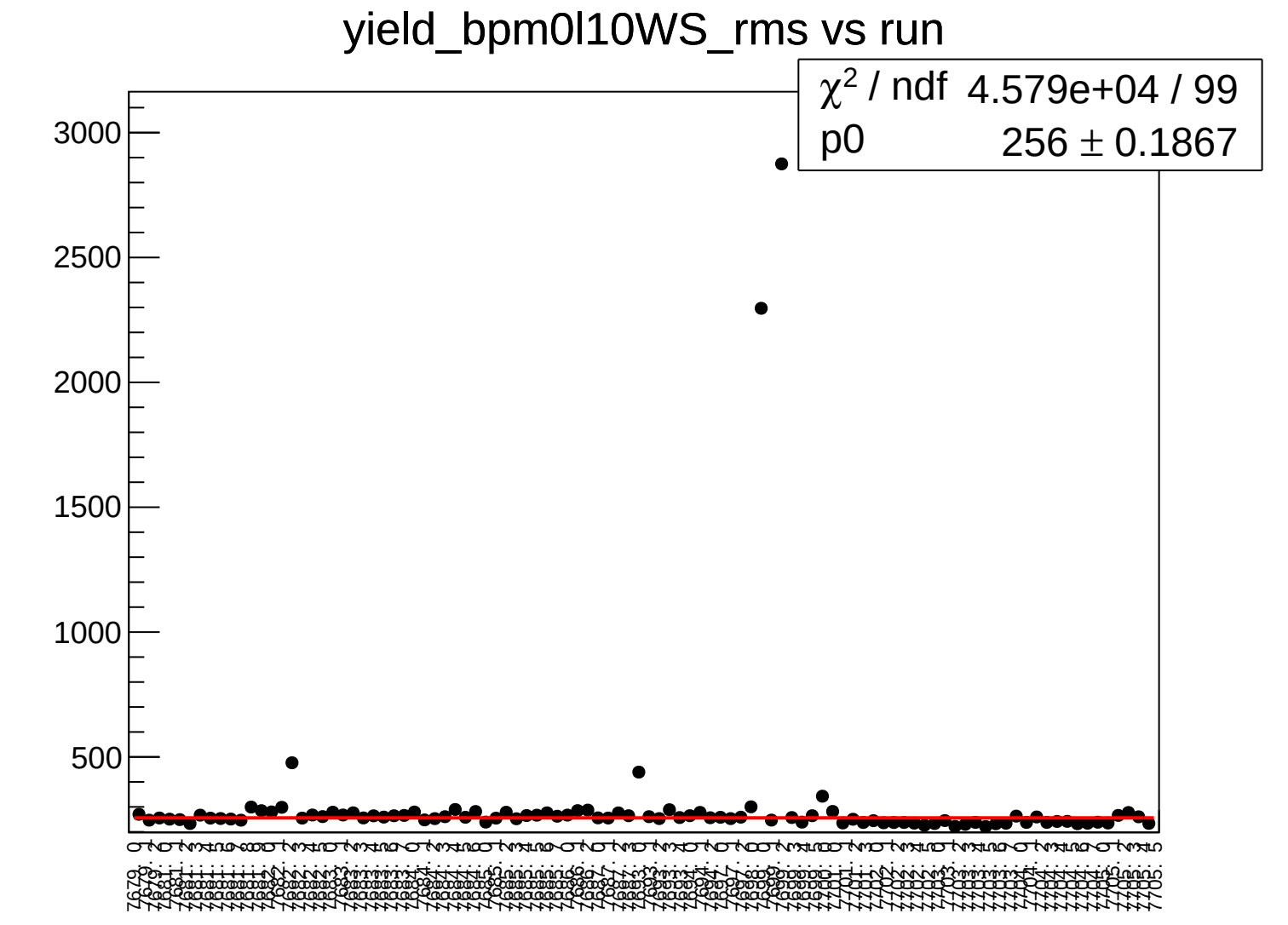

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 7.674e+06 / 99
p0 1.39e+05 ± 0.2993
140
139
138
137
136
135
134
133
pull
Entries 100
Mean 22.45
Std Dev 59.88
0
−500
−1000
−1500
−2000

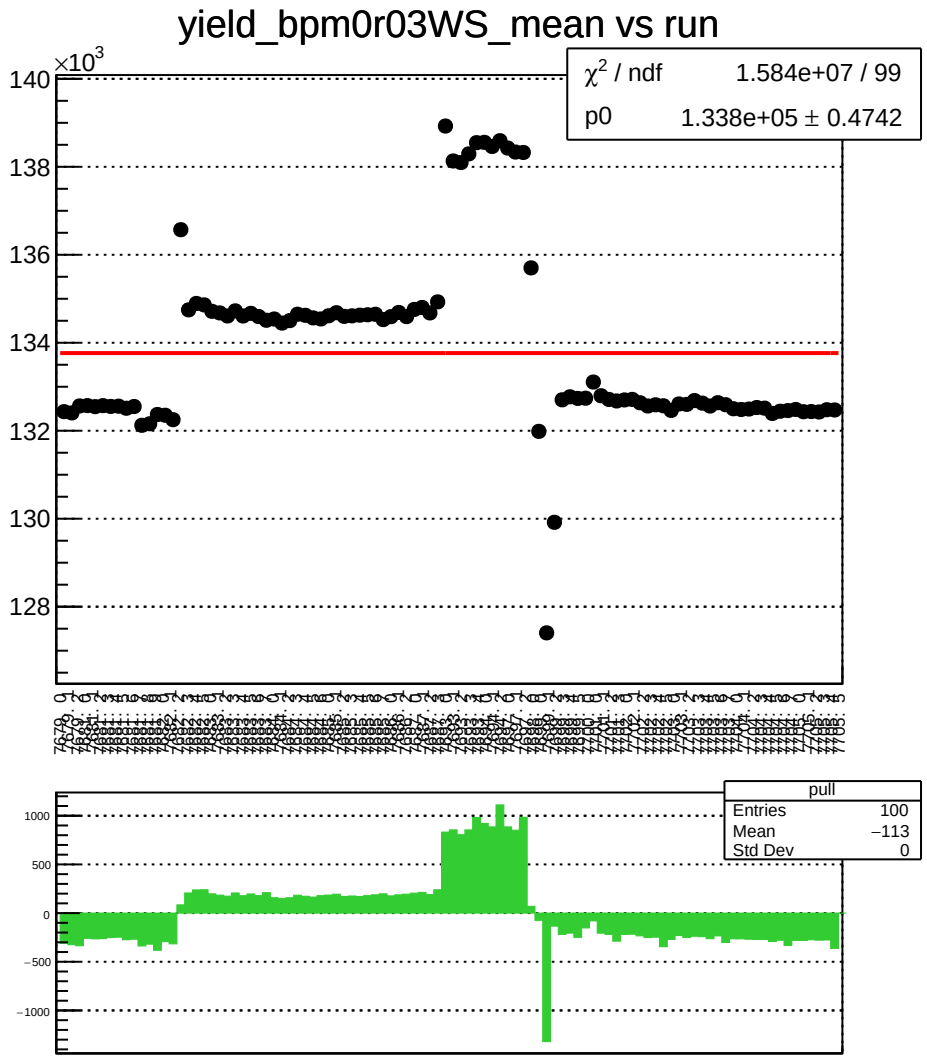

pull1D
Entries 100
Mean −3.08
Std Dev 1.848
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

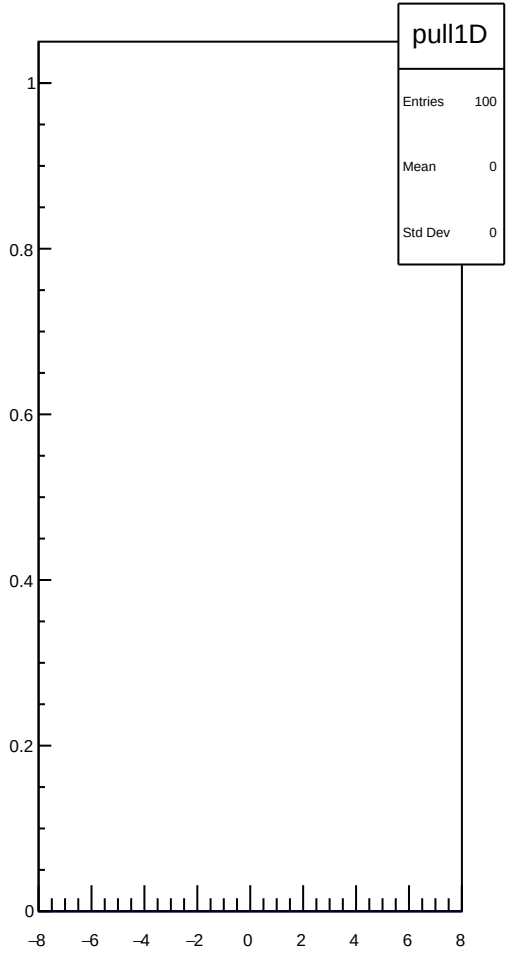

yield_bpm0l09WS_rms vs run
χ² / ndf 6.669e+04 / 99
p0 288.5 ± 0.2117
3000
2500
2000
1500
1000
500

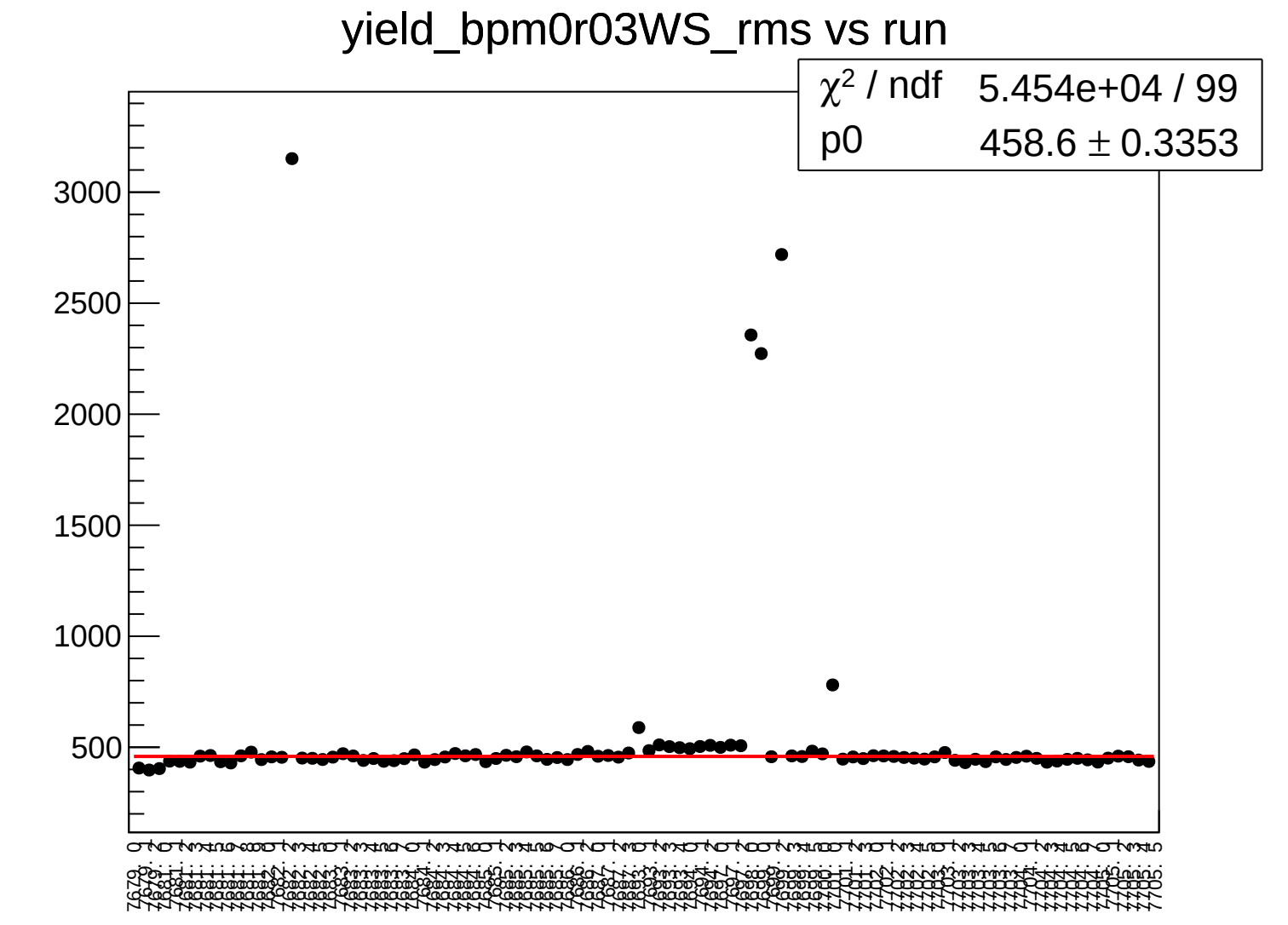

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 1.053e+07 / 99
p0 1.43e+05 ± 0.2641
145
144
143
142
141
140
139
138
137
pull
Entries 100
Mean −452.3
Std Dev 0
500
0
−500
−1000
−1500
−2000

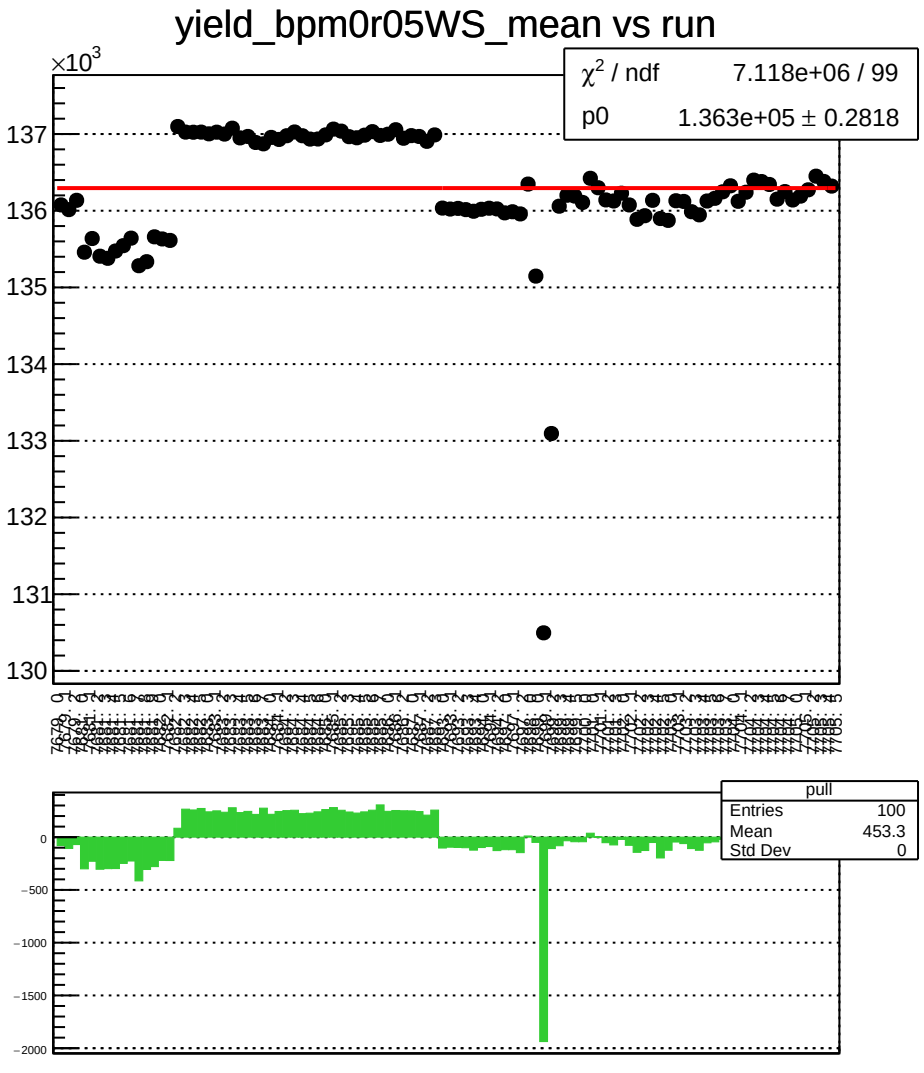

pull1D
Entries 100
Mean 0.5131
Std Dev 4.258
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

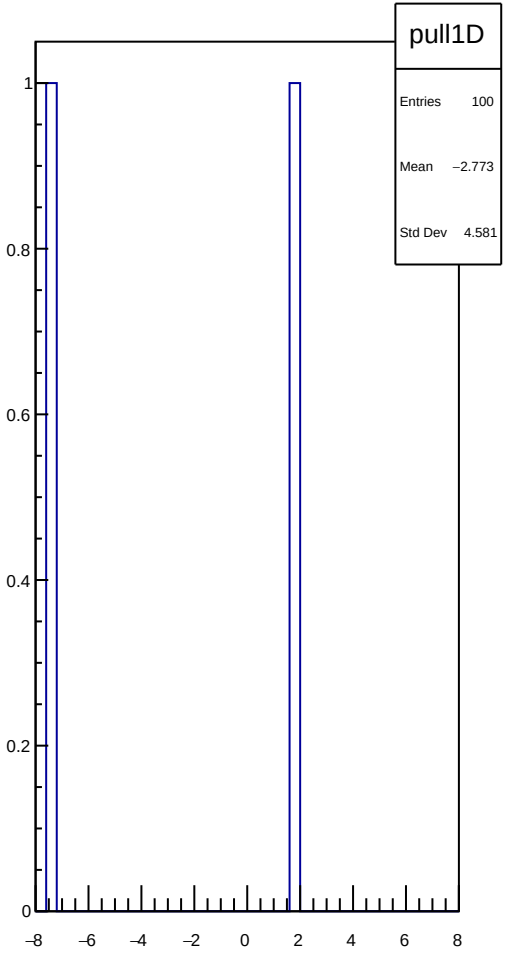

yield_bpm0l10WS_rms vs run
χ² / ndf 4.579e+04 / 99
p0 256 ± 0.1867
3000
2500
2000
1500
1000
500

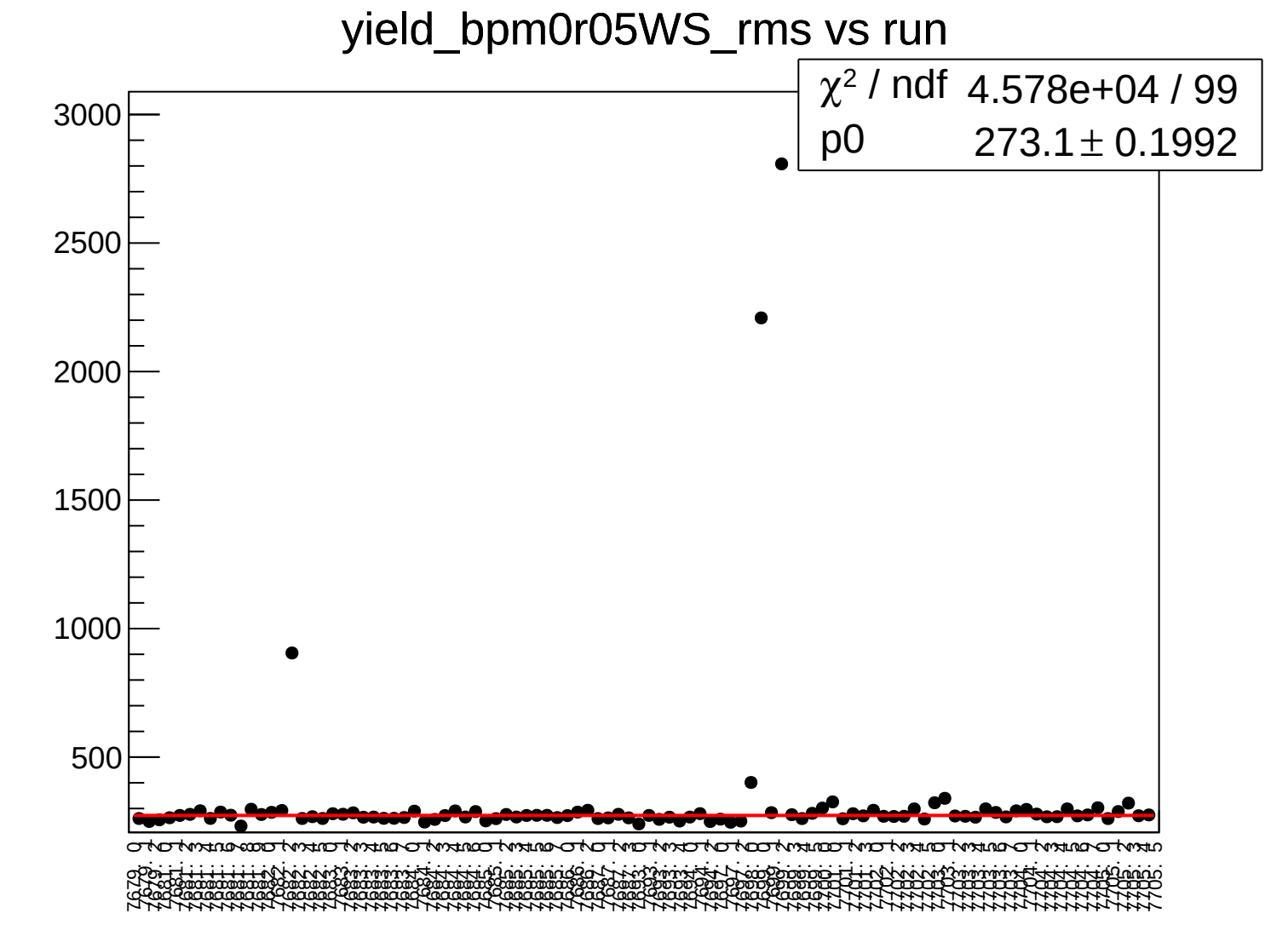

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 1.584e+07 / 99
p0 1.338e+05 ± 0.4742
140
138
136
134
132
130
128
pull
Entries 100
Mean −113
Std Dev 0
1000
500
0
−500
−1000

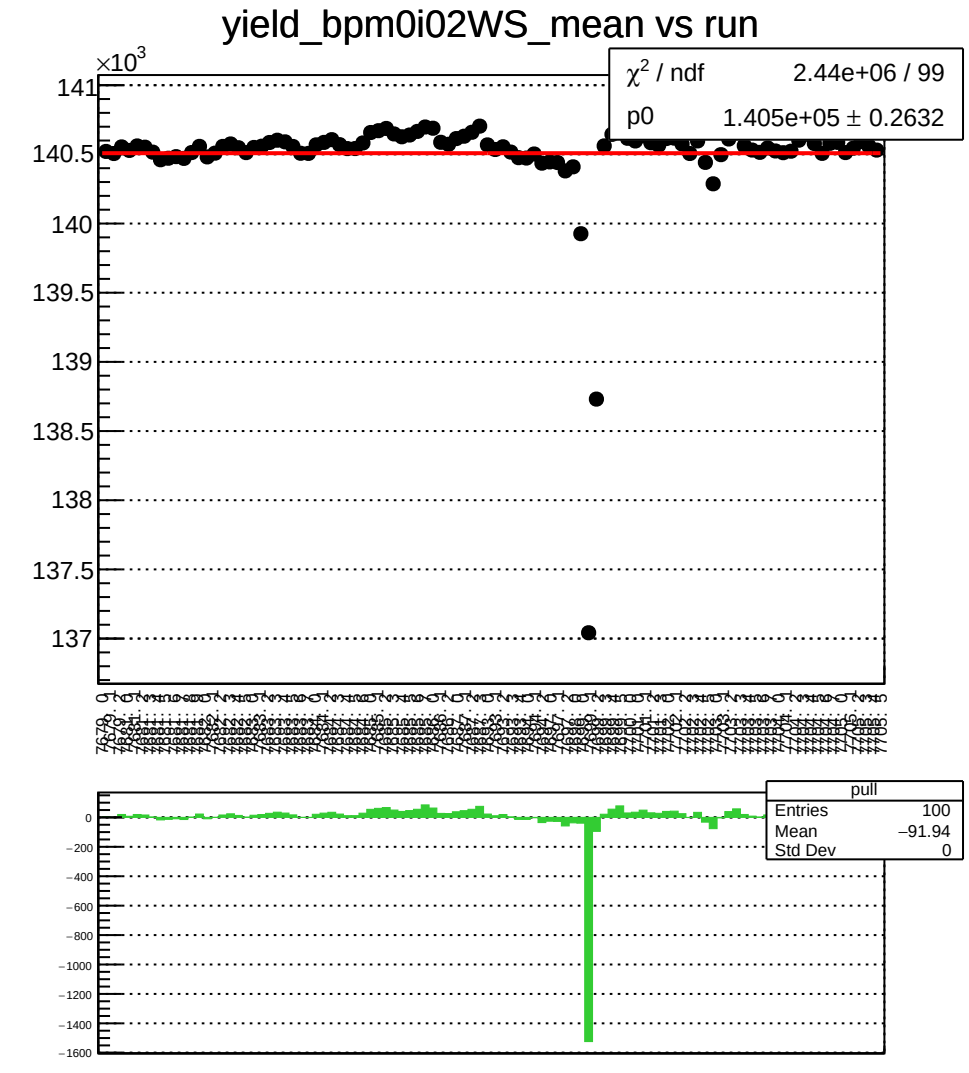

pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

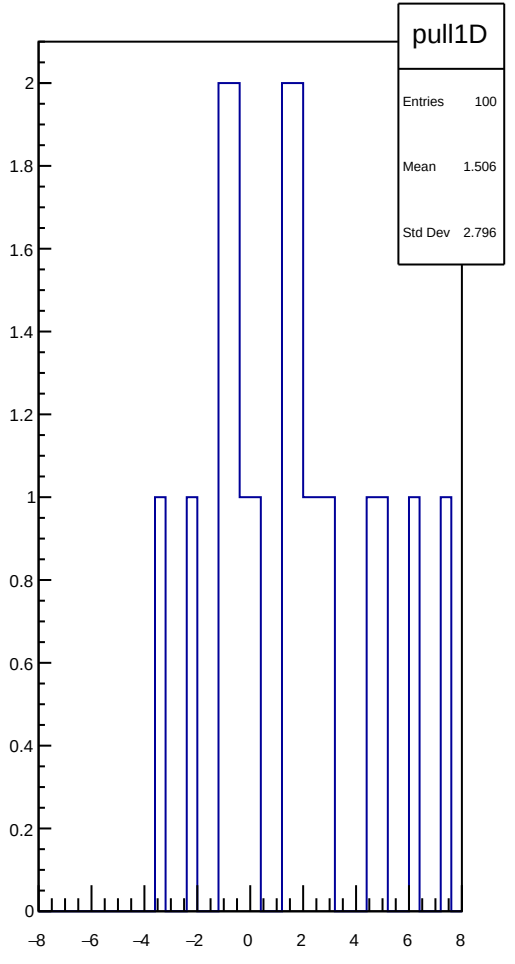

yield_bpm0r03WS_rms vs run
χ² / ndf 5.454e+04 / 99
p0 458.6 ± 0.3353
3000
2500
2000
1500
1000
500

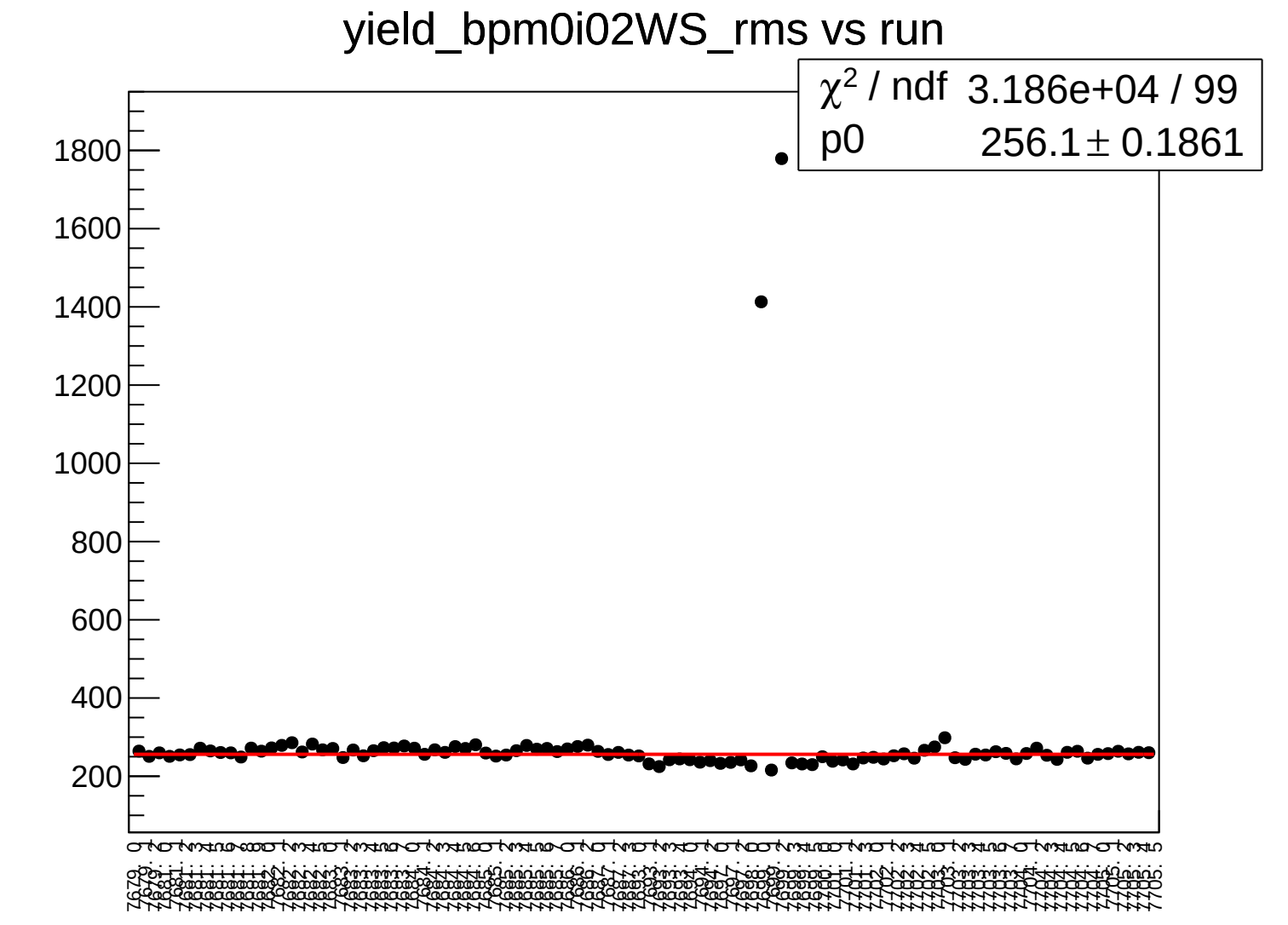

yield_bpm0r05WS_mean vs run
×10^3
χ^2 / ndf 7.118e+06 / 99
p0 1.363e+05 ± 0.2818
137
136
135
134
133
132
131
130
pull
Entries 100
Mean 453.3
Std Dev 0
0
−500
−1000
−1500
−2000

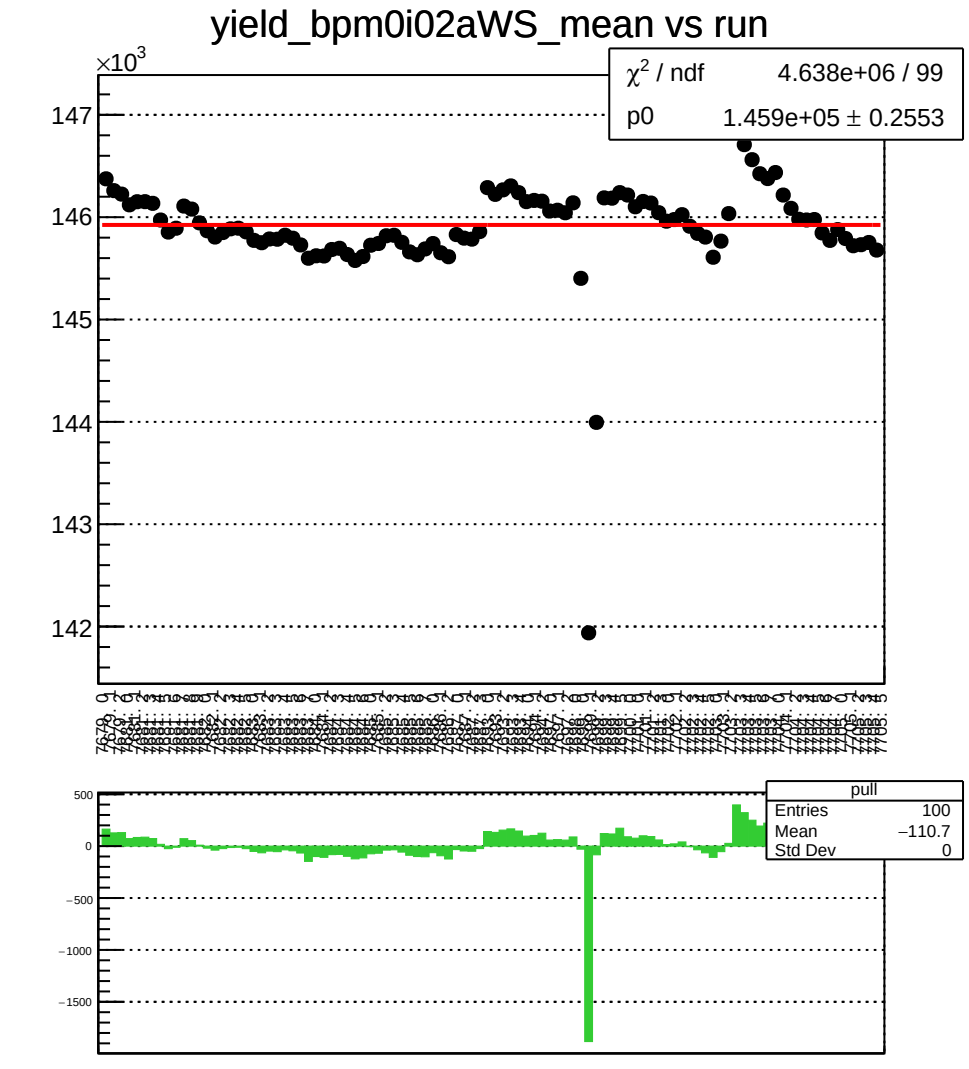

pull1D
Entries 100
Mean −2.773
Std Dev 4.581
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

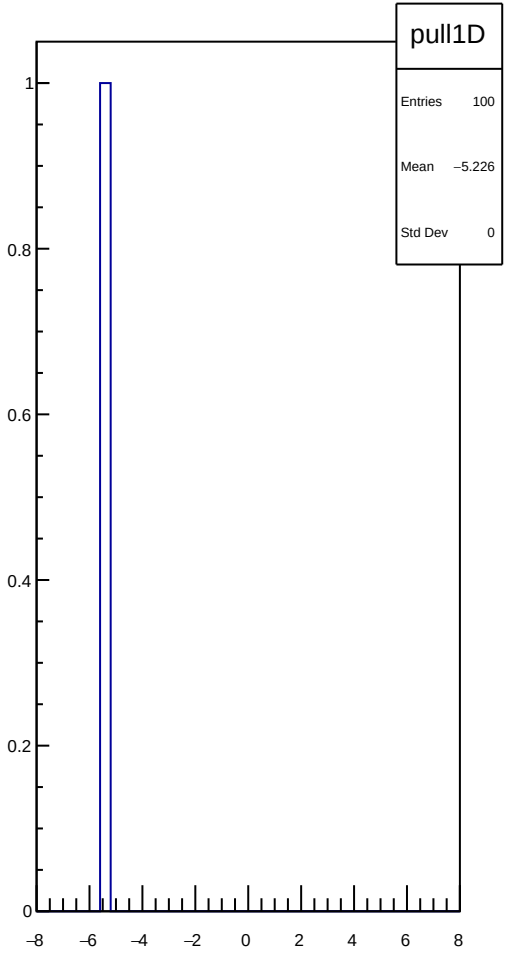

yield_bpm0r05WS_rms vs run
χ² / ndf 4.578e+04 / 99
p0 273.1 ± 0.1992
3000
2500
2000
1500
1000
500

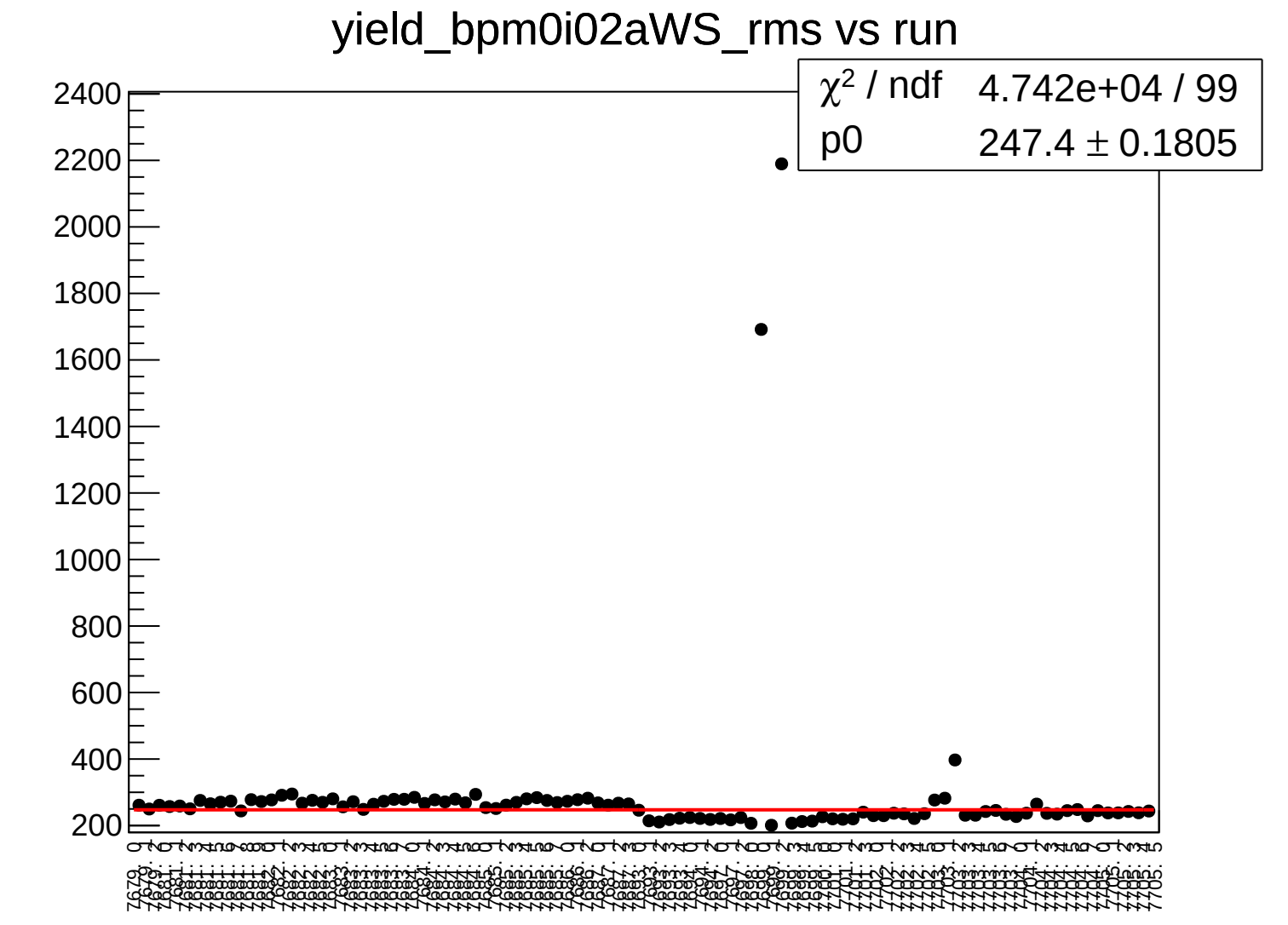

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 2.44e+06 / 99
p0 1.405e+05 ± 0.2632
141
140.5
140
139.5
139
138.5
138
137.5
137
pull
Entries 100
Mean −91.94
Std Dev 0
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600

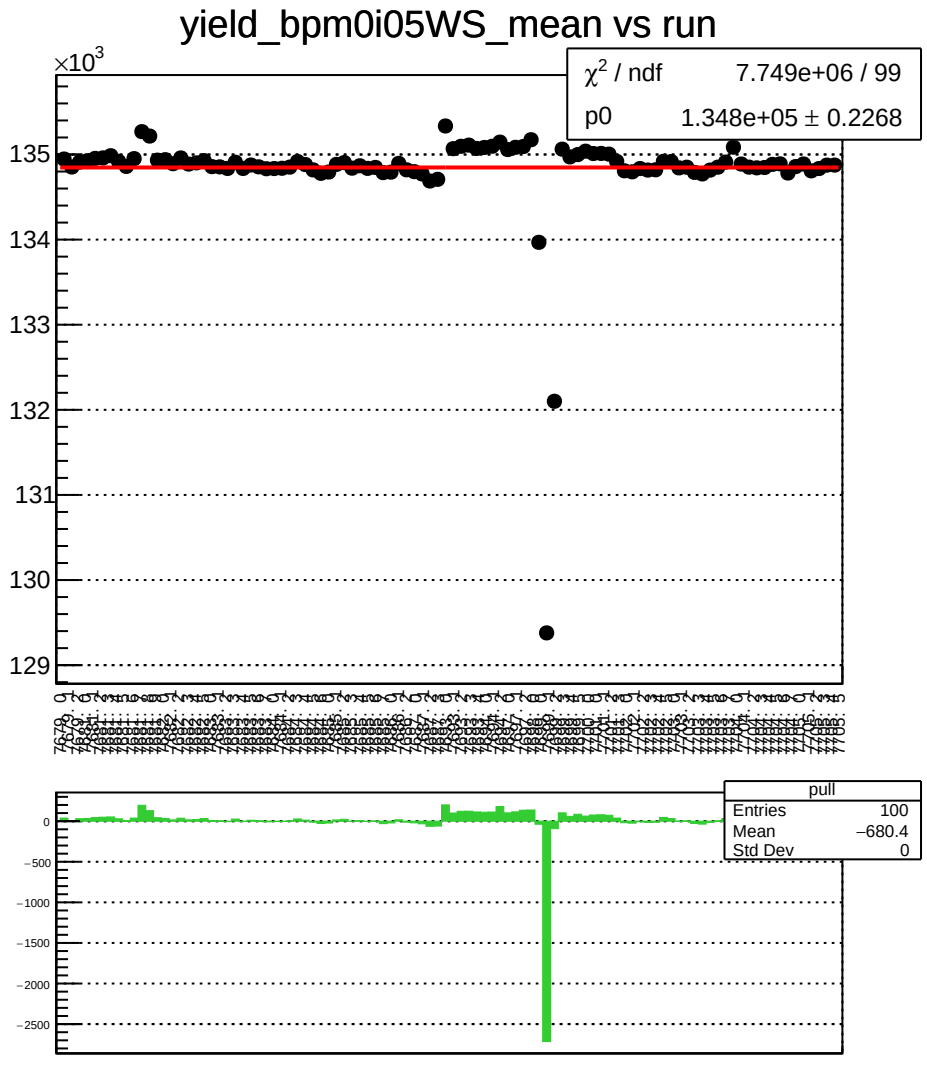

pull1D
Entries 100
Mean 1.506
Std Dev 2.796
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

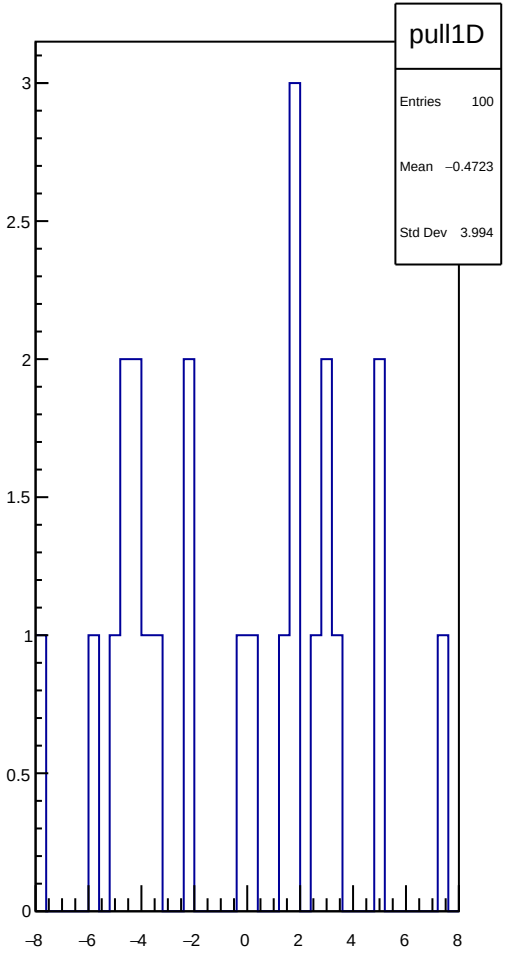

yield_bpm0i02WS_rms vs run
χ² / ndf 3.186e+04 / 99
p0 256.1 ± 0.1861
1800
1600
1400
1200
1000
800
600
400
200

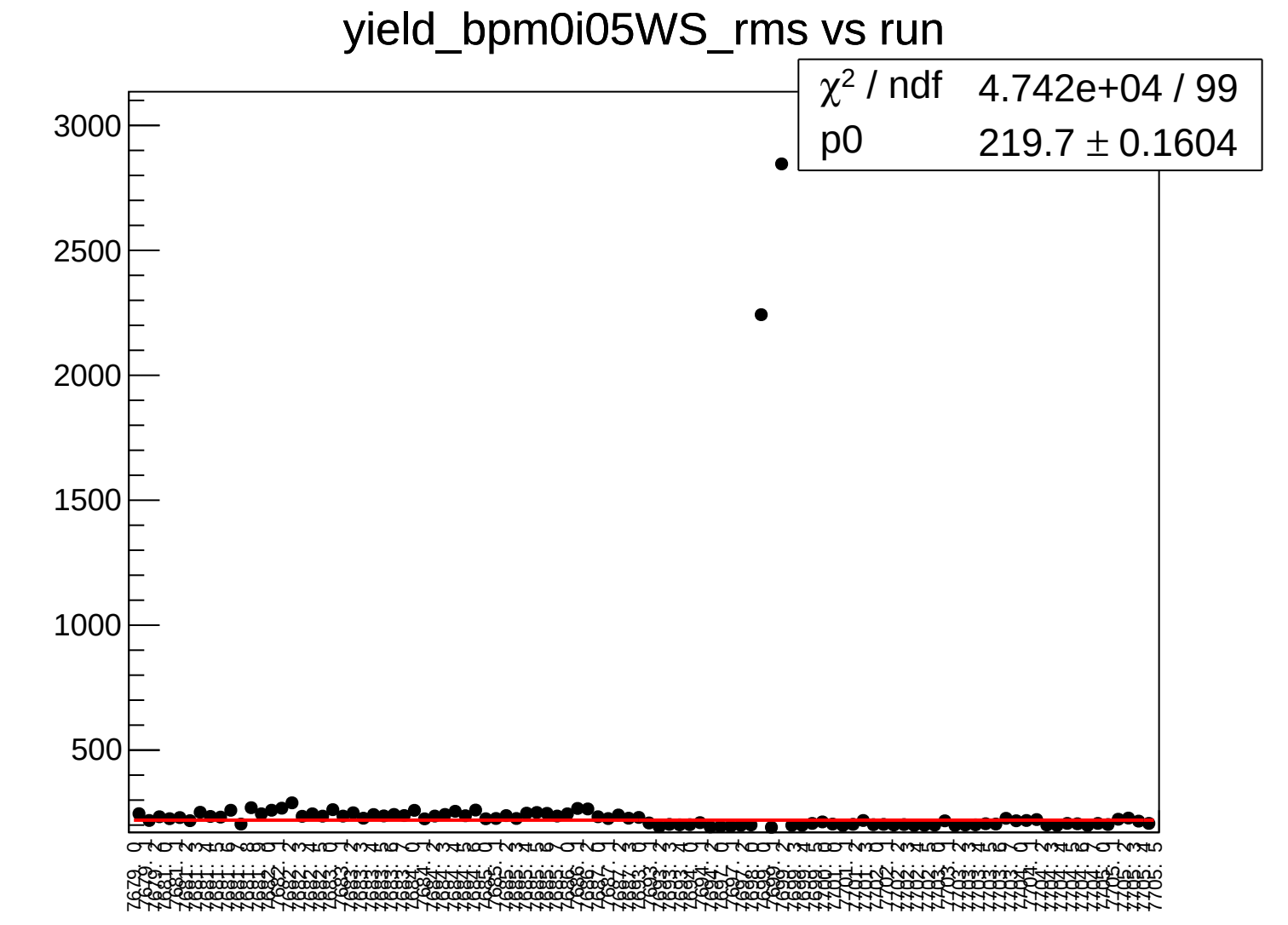

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 4.638e+06 / 99
p0 1.459e+05 ± 0.2553
147
146
145
144
143
142
pull
Entries 100
Mean −110.7
Std Dev 0
500
0
−500
−1000
−1500

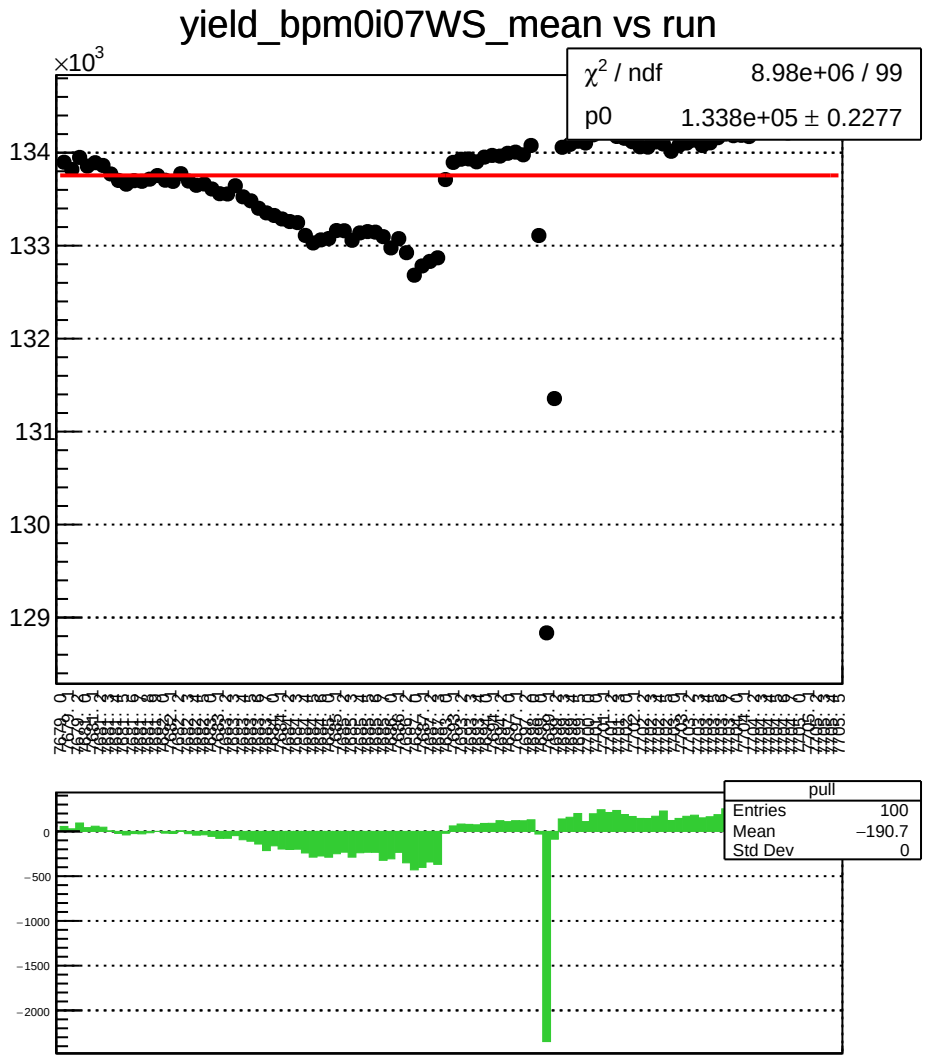

pull1D
Entries 100
Mean −5.226
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

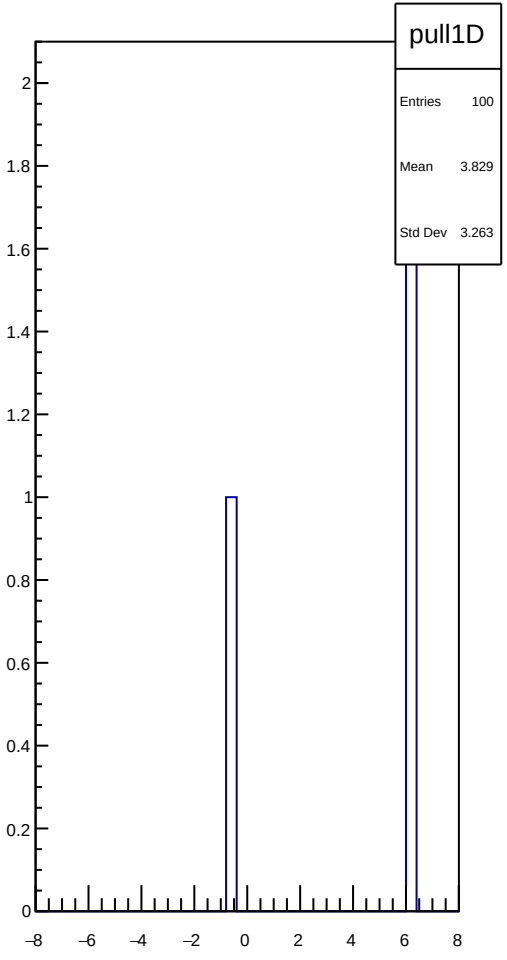

yield_bpm0i02aWS_rms vs run
χ² / ndf 4.742e+04 / 99
p0 247.4 ± 0.1805
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

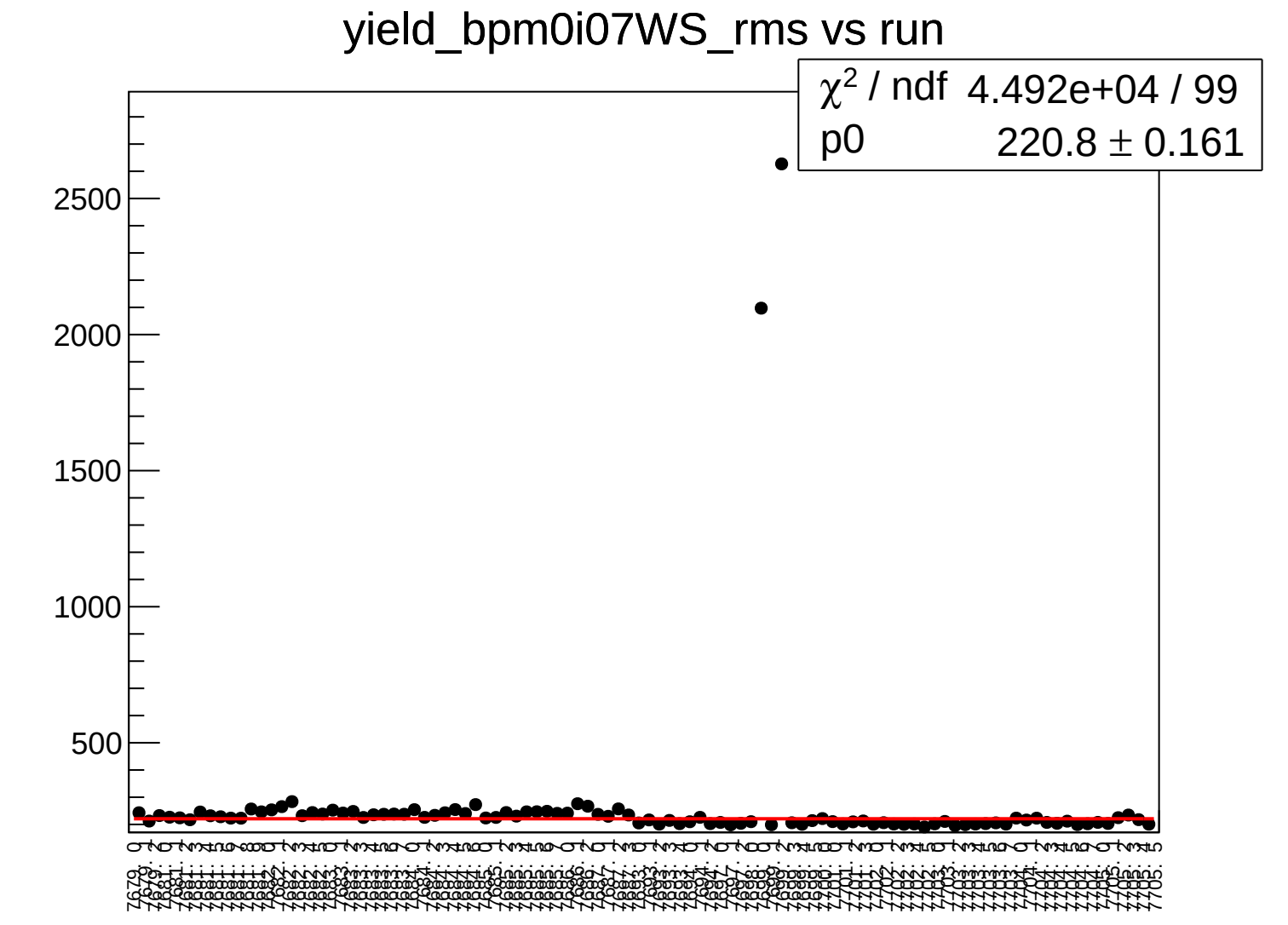

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 7.749e+06 / 99
p0 1.348e+05 ± 0.2268
135
134
133
132
131
130
129
pull
Entries 100
Mean −680.4
Std Dev 0
0
−500
−1000
−1500
−2000
−2500

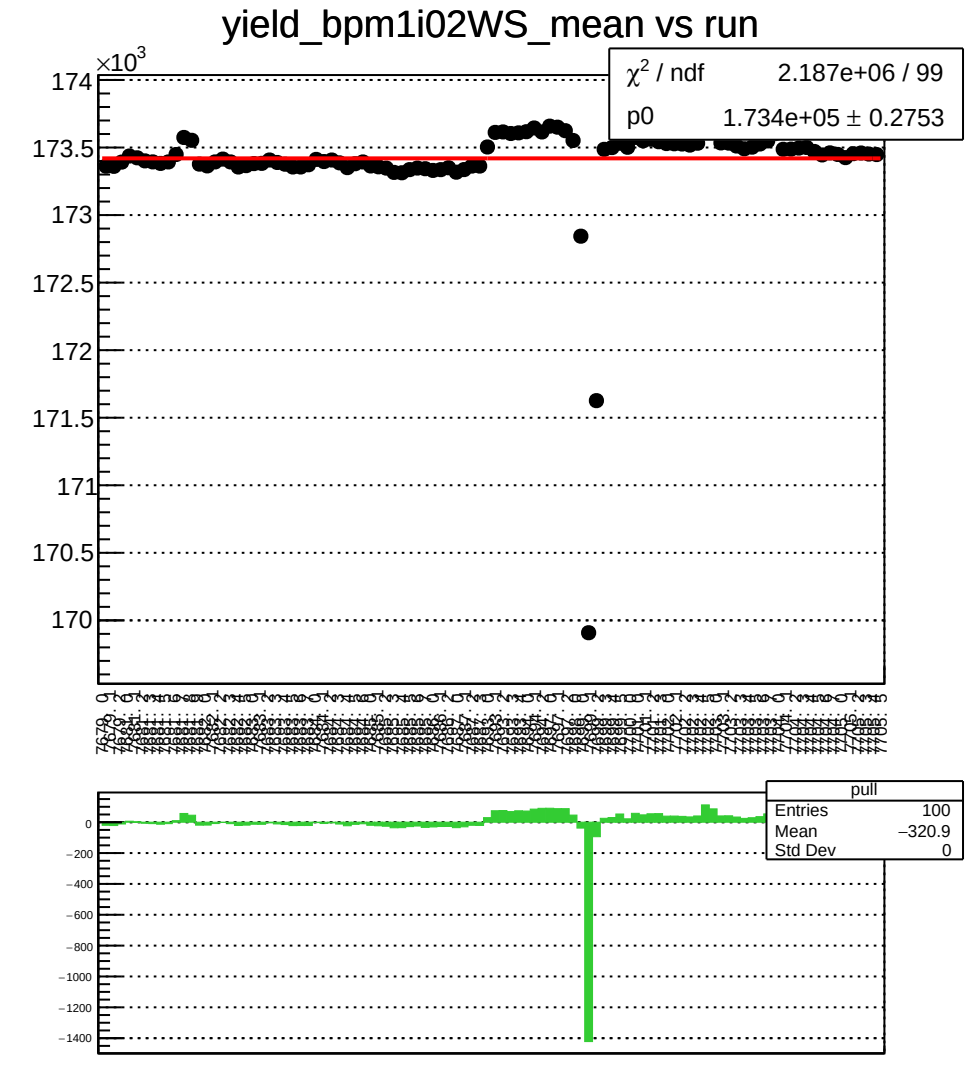

pull1D
Entries 100
Mean −0.4723
Std Dev 3.994
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

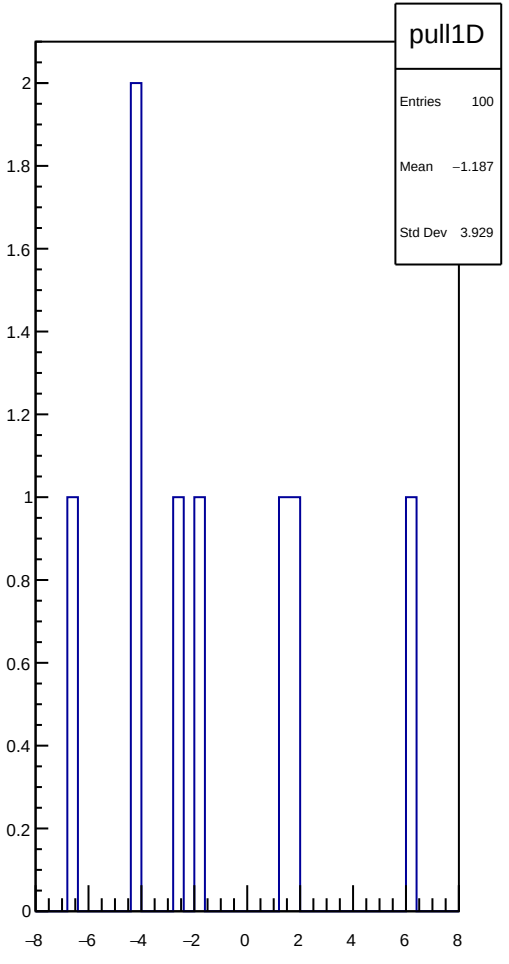

yield_bpm0i05WS_rms vs run
χ² / ndf 4.742e+04 / 99
p0 219.7 ± 0.1604
3000
2500
2000
1500
1000
500

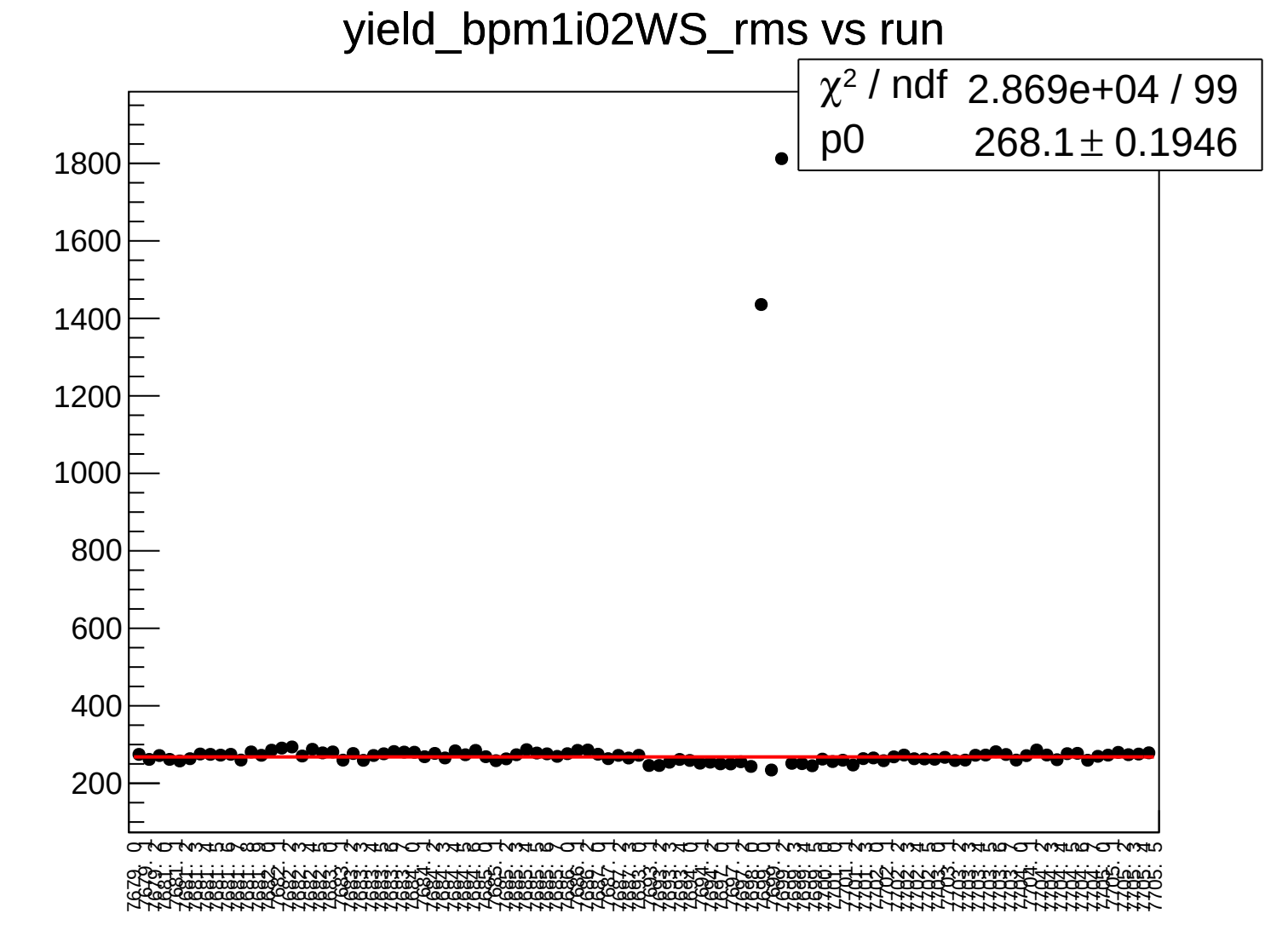

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 8.98e+06 / 99
p0 1.338e+05 ± 0.2277
134
133
132
131
130
129
pull
Entries 100
Mean −190.7
Std Dev 0
0
−500
−1000
−1500
−2000

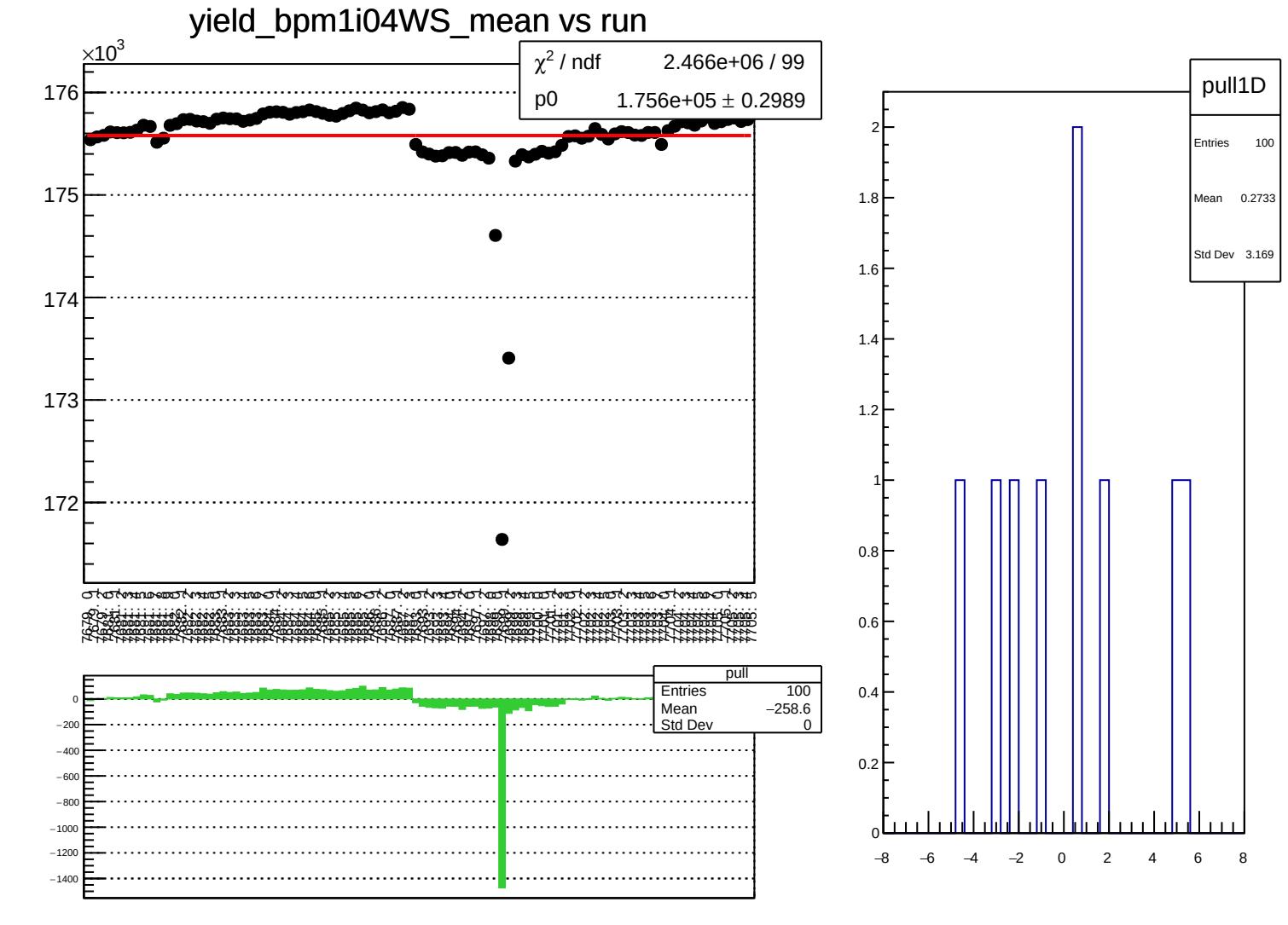

pull1D
Entries 100
Mean 3.829
Std Dev 3.263
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

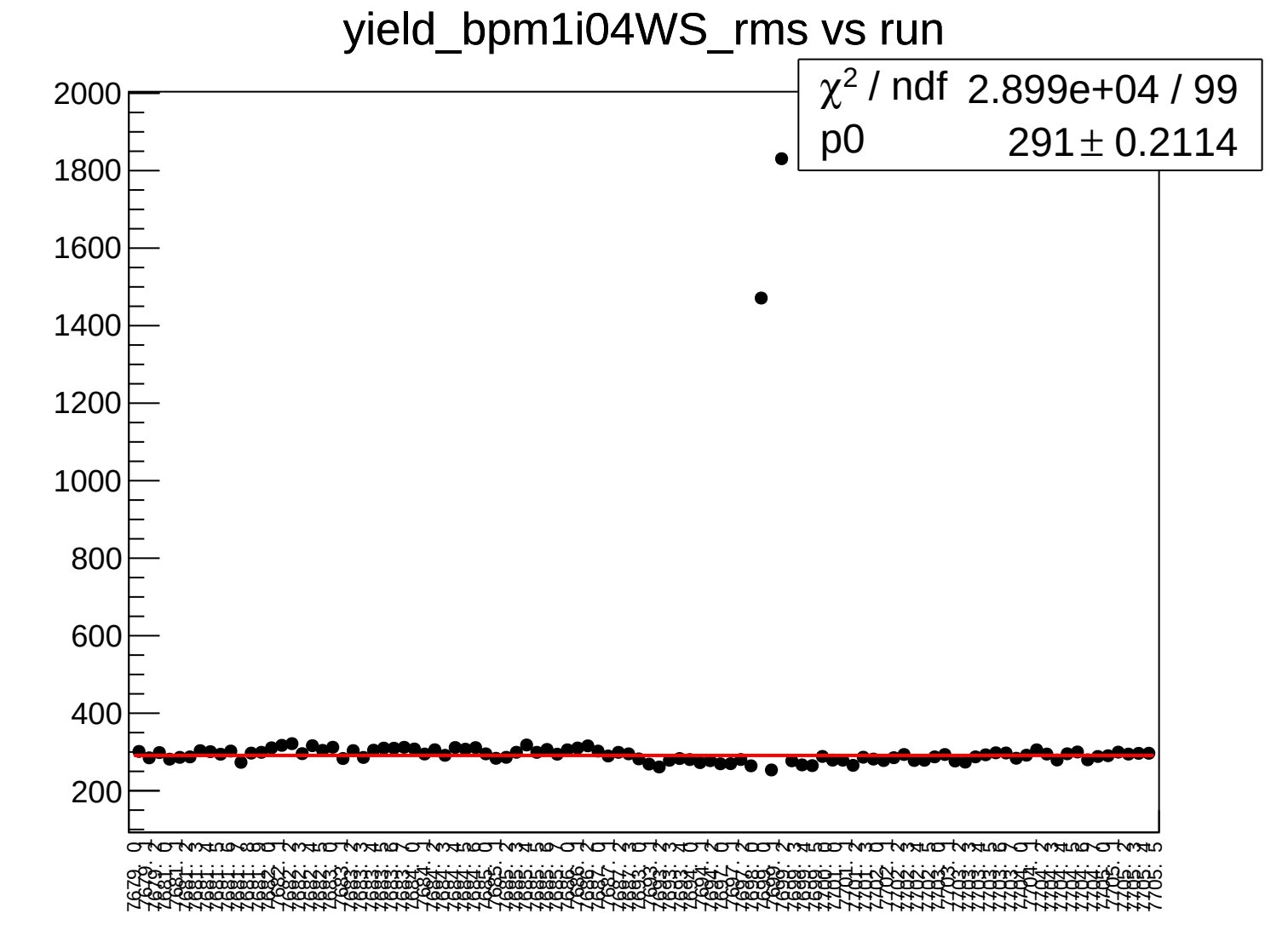

yield_bpm0i07WS_rms vs run
χ² / ndf 4.492e+04 / 99
p0 220.8 ± 0.161
2500
2000
1500
1000
500

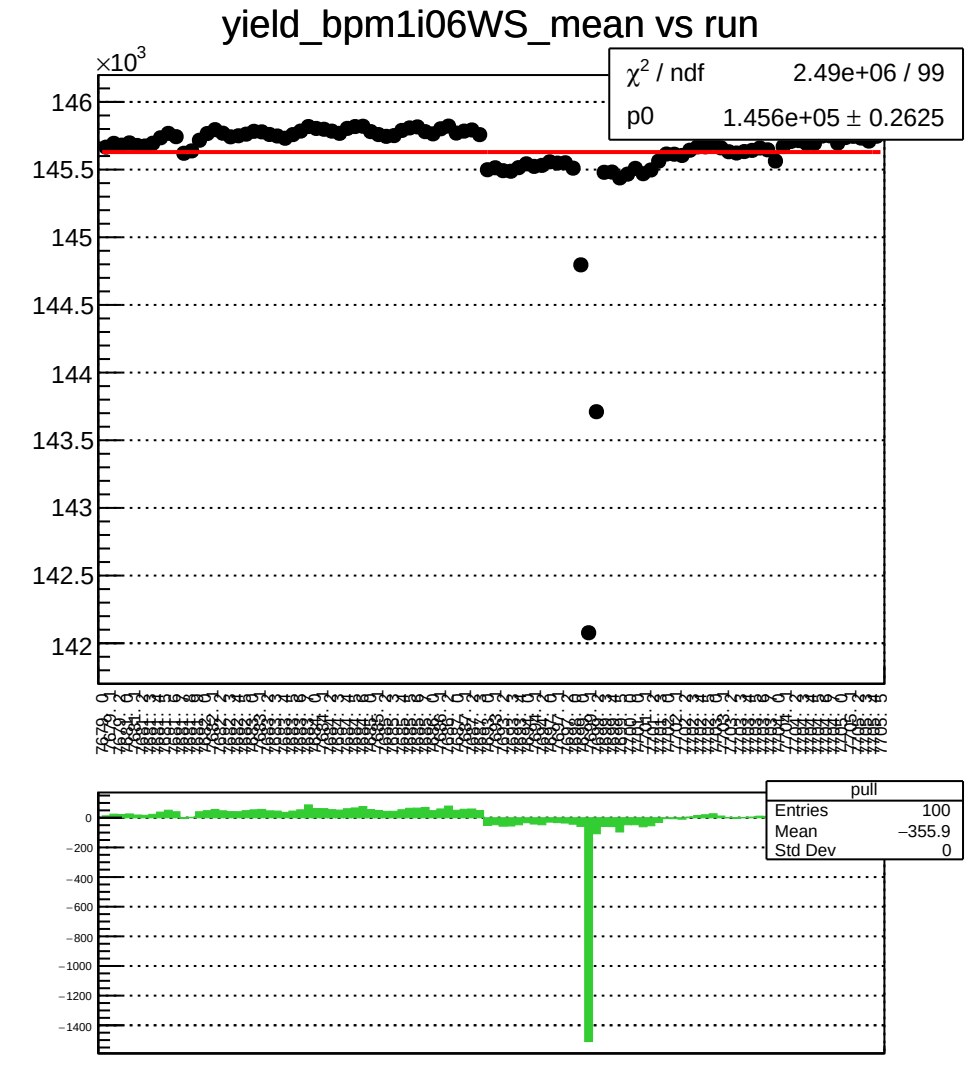

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 2.187e+06 / 99
p0 1.734e+05 ± 0.2753
174
173.5
173
172.5
172
171.5
171
170.5
170
pull
Entries 100
Mean −320.9
Std Dev 0
0
−200
−400
−600
−800
−1000
−1200
−1400

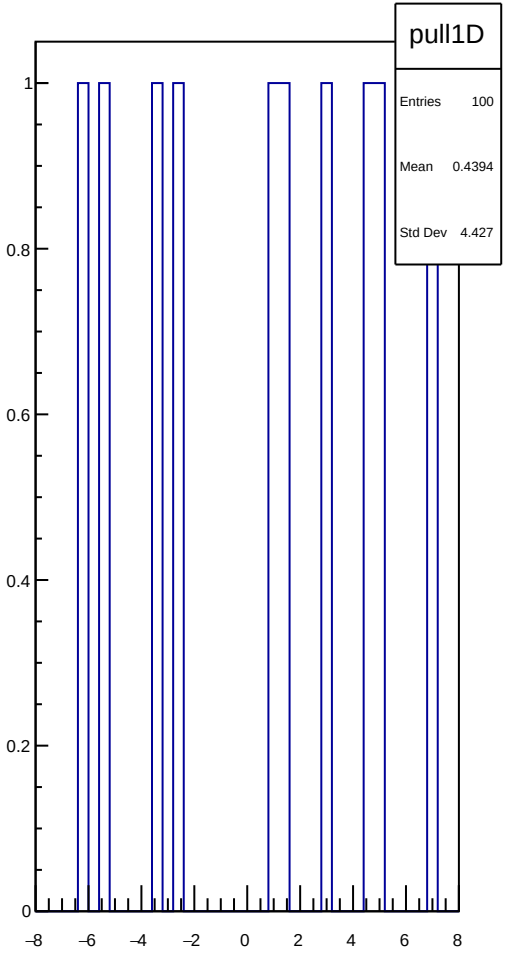

pull1D
Entries 100
Mean −1.187
Std Dev 3.929
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

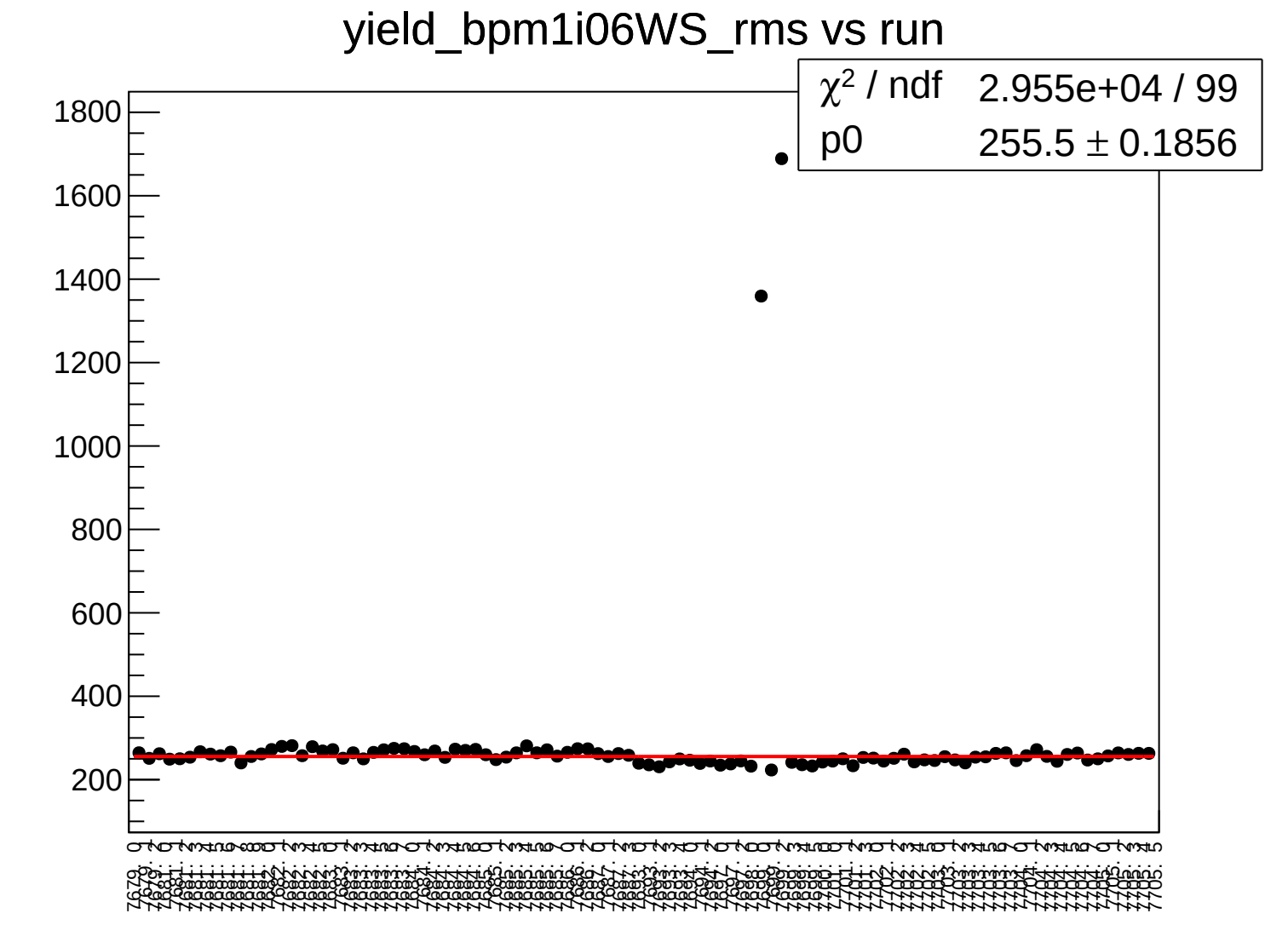

yield_bpm1i02WS_rms vs run
χ² / ndf 2.869e+04 / 99
p0 268.1 ± 0.1946
1800
1600
1400
1200
1000
800
600
400
200

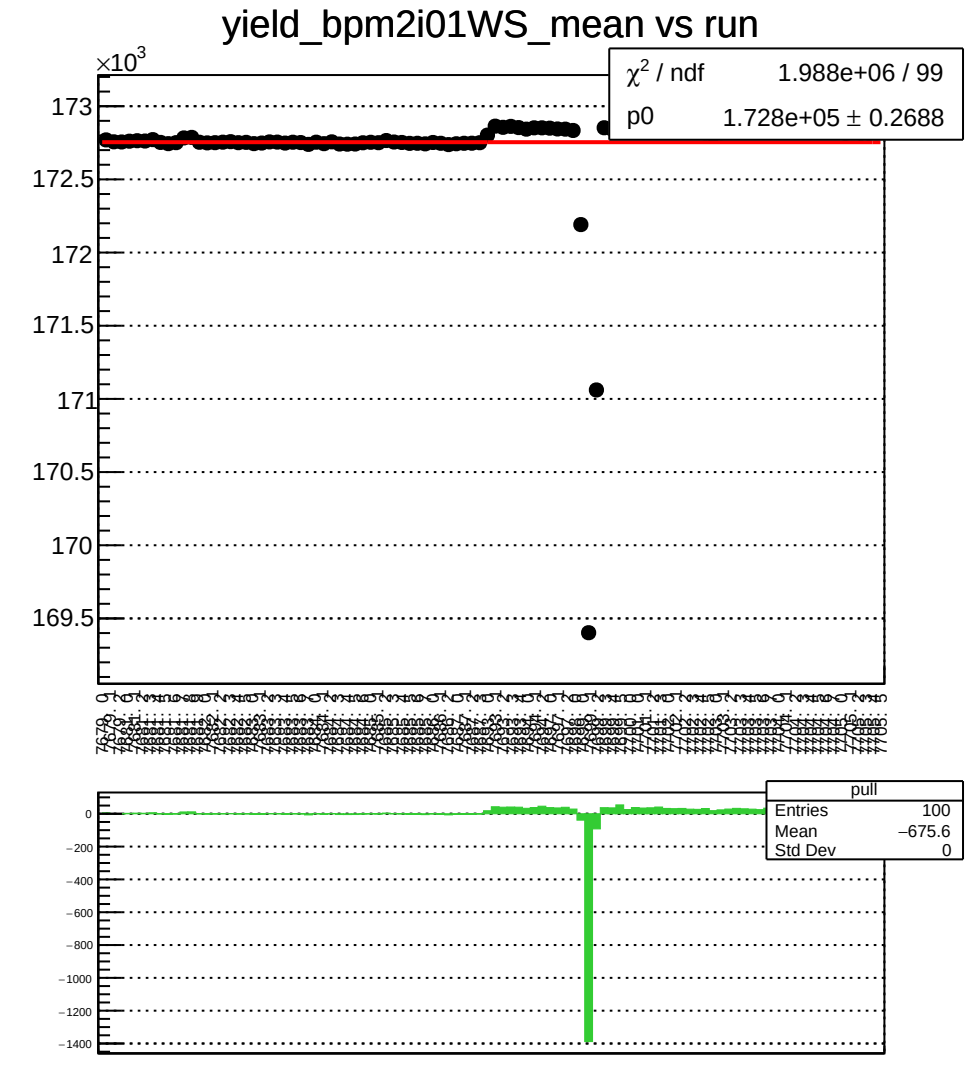

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 2.466e+06 / 99
p0 1.756e+05 ± 0.2989
176
175
174
173
172
pull
Entries 100
Mean −258.6
Std Dev 0
0
−200
−400
−600
−800
−1000
−1200
−1400
pull1D
Entries 100
Mean 0.2733
Std Dev 3.169
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

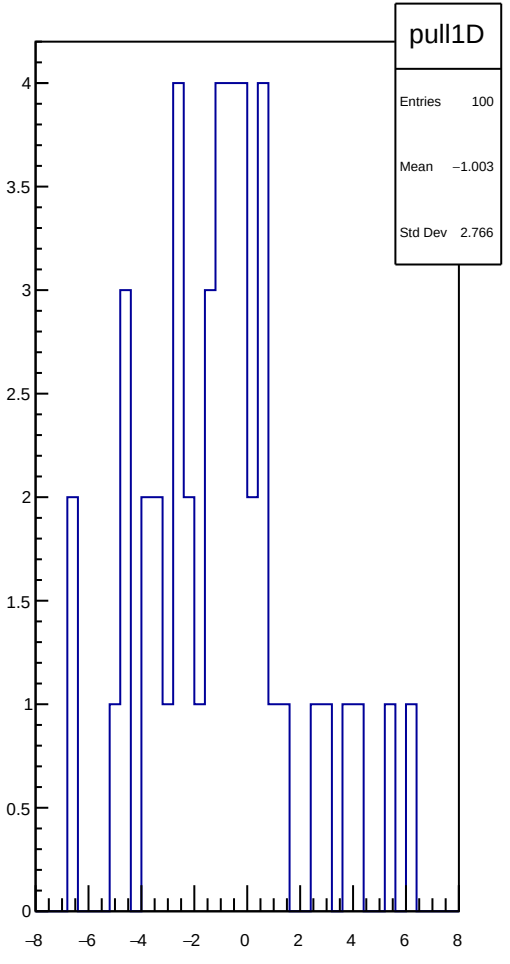

yield_bpm1i04WS_rms vs run
χ² / ndf 2.899e+04 / 99
p0 291 ± 0.2114
2000
1800
1600
1400
1200
1000
800
600
400
200

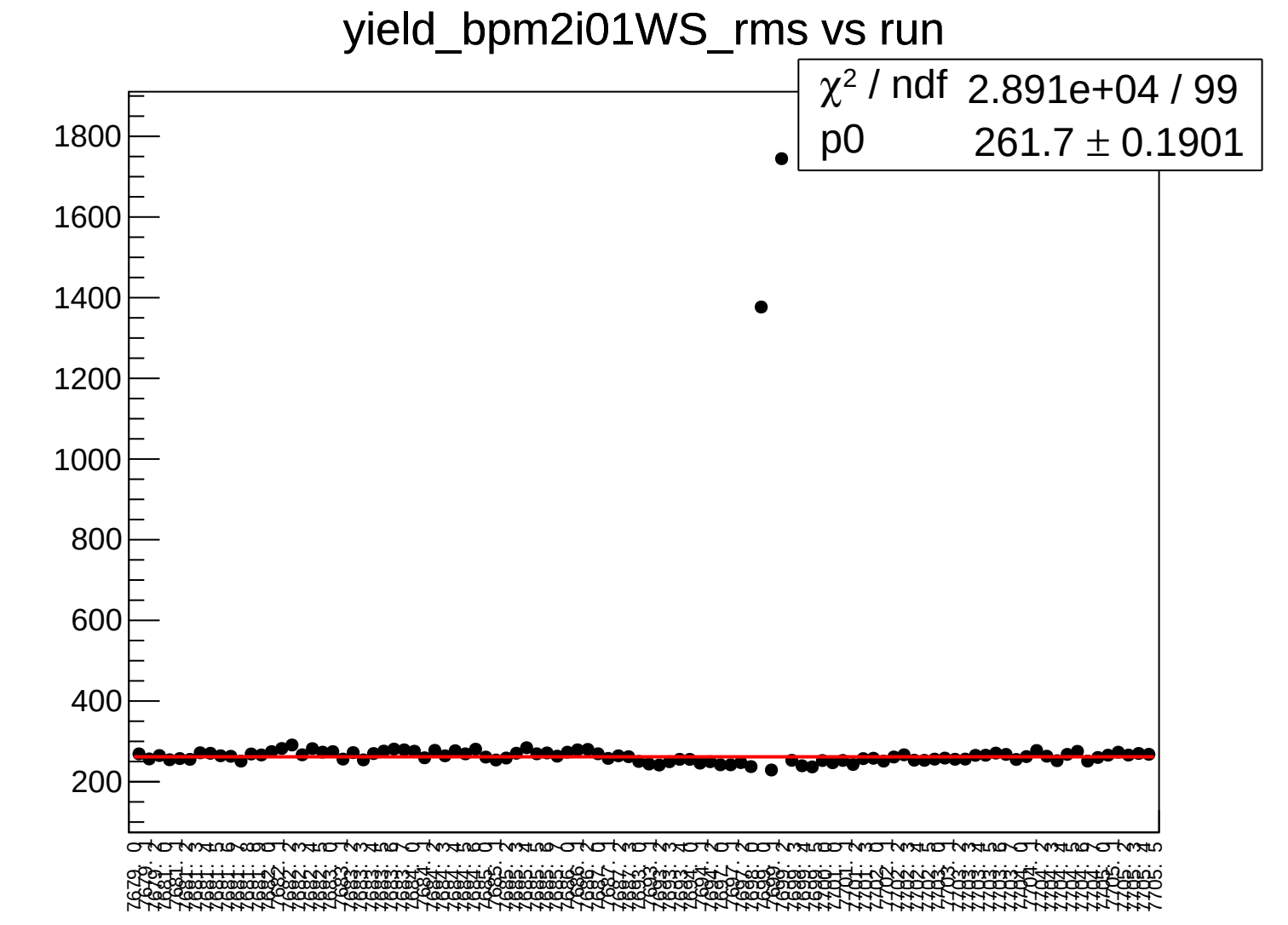

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 2.49e+06 / 99
p0 1.456e+05 ± 0.2625
146
145.5
145
144.5
144
143.5
143
142.5
142
pull
Entries 100
Mean −355.9
Std Dev 0
0
−200
−400
−600
−800
−1000
−1200
−1400

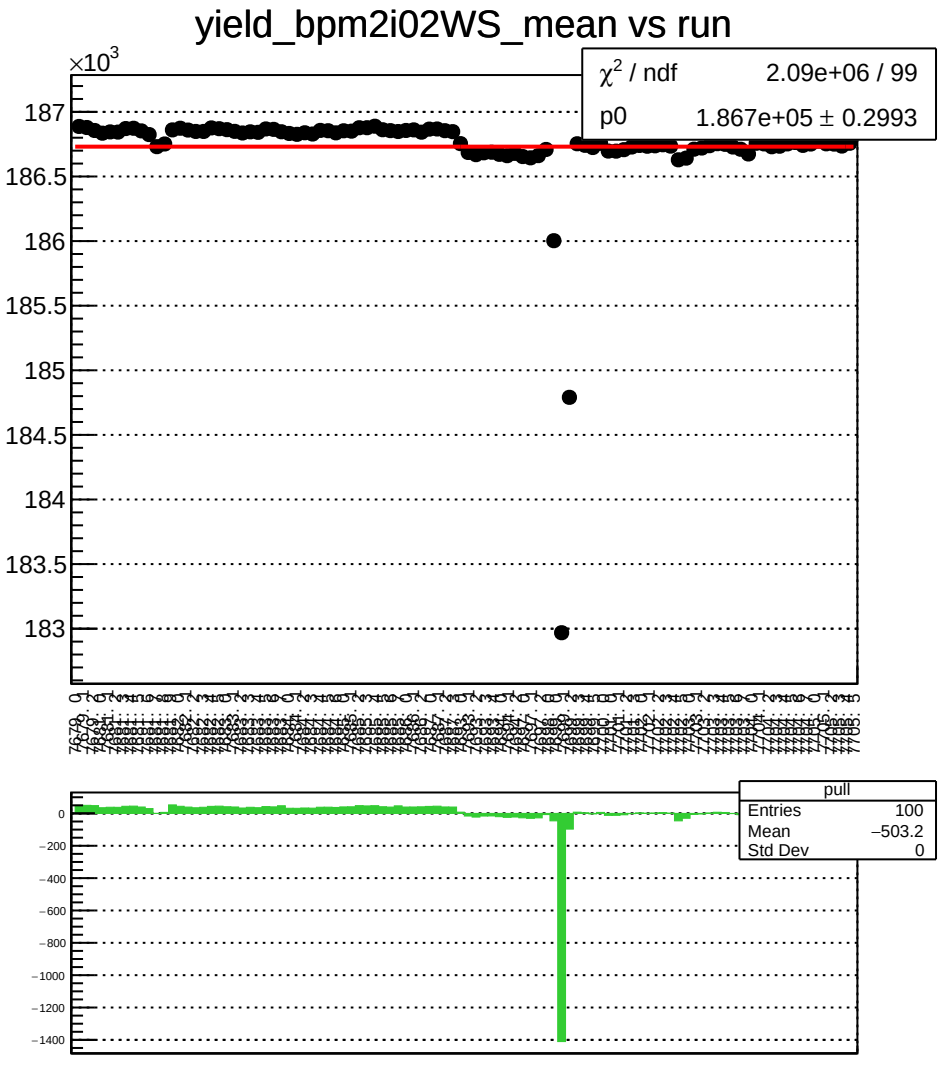

pull1D
Entries 100
Mean 0.4394
Std Dev 4.427
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

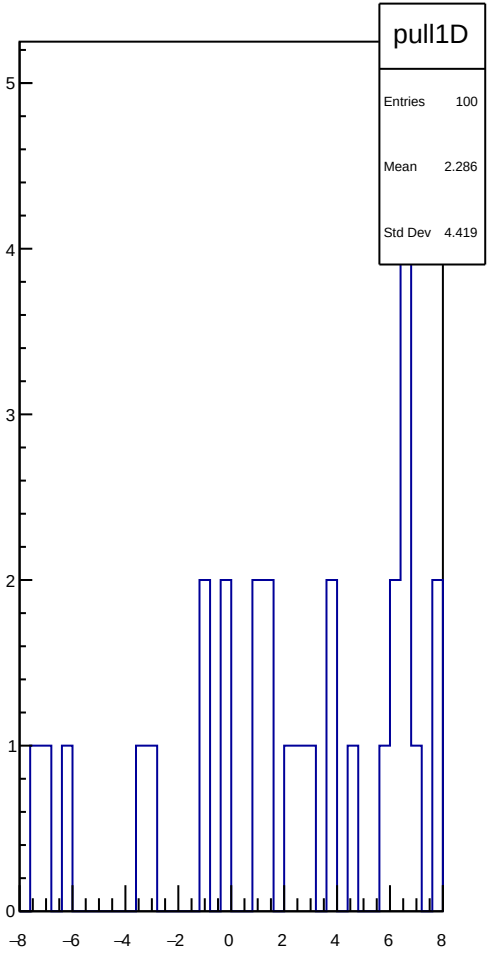

yield_bpm1i06WS_rms vs run
χ² / ndf 2.955e+04 / 99
p0 255.5 ± 0.1856
1800
1600
1400
1200
1000
800
600
400
200

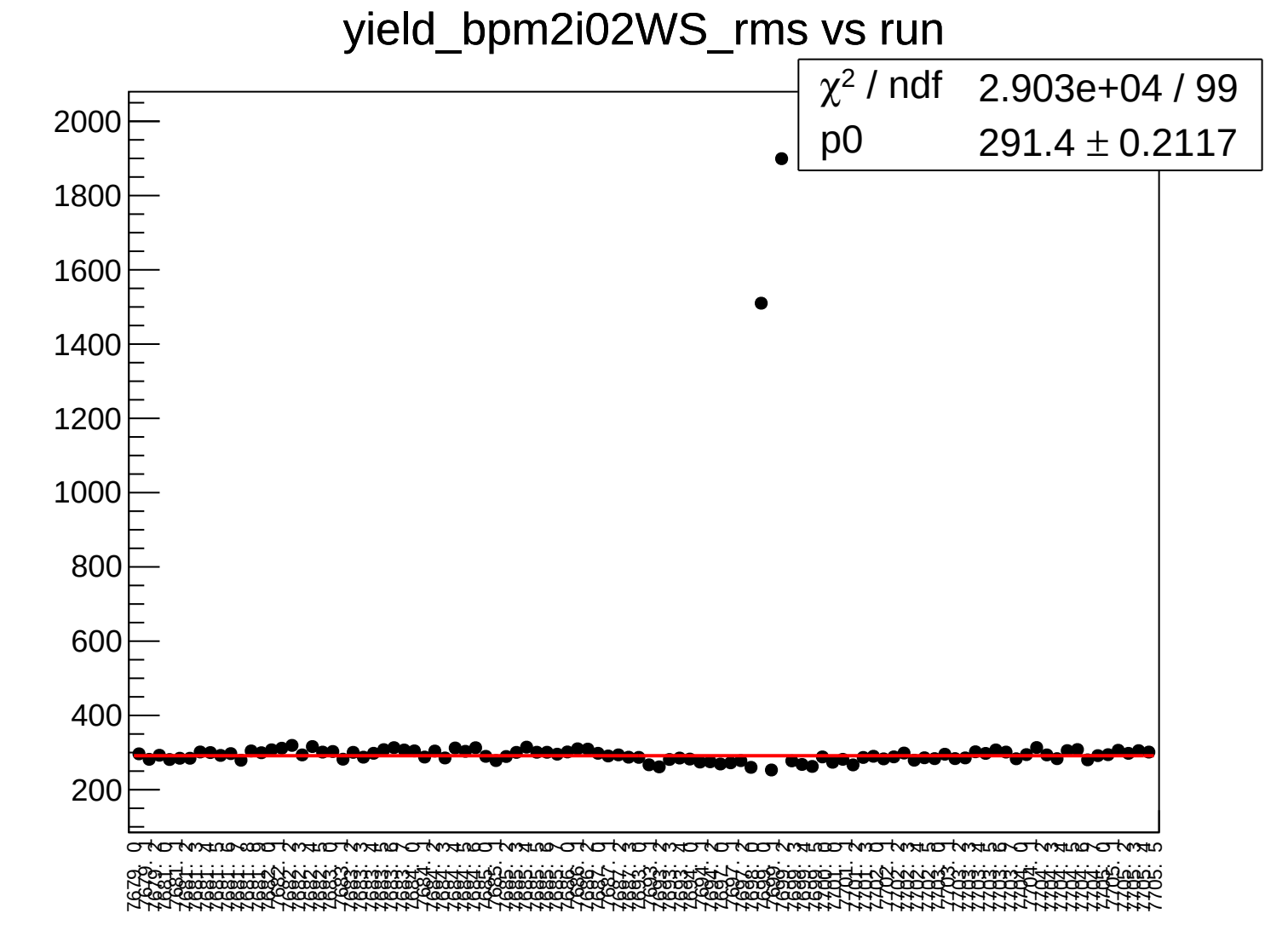

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1.988e+06 / 99
p0 1.728e+05 ± 0.2688
173
172.5
172
171.5
171
170.5
170
169.5
pull
Entries 100
Mean −675.6
Std Dev 0
0
−200
−400
−600
−800
−1000
−1200
−1400

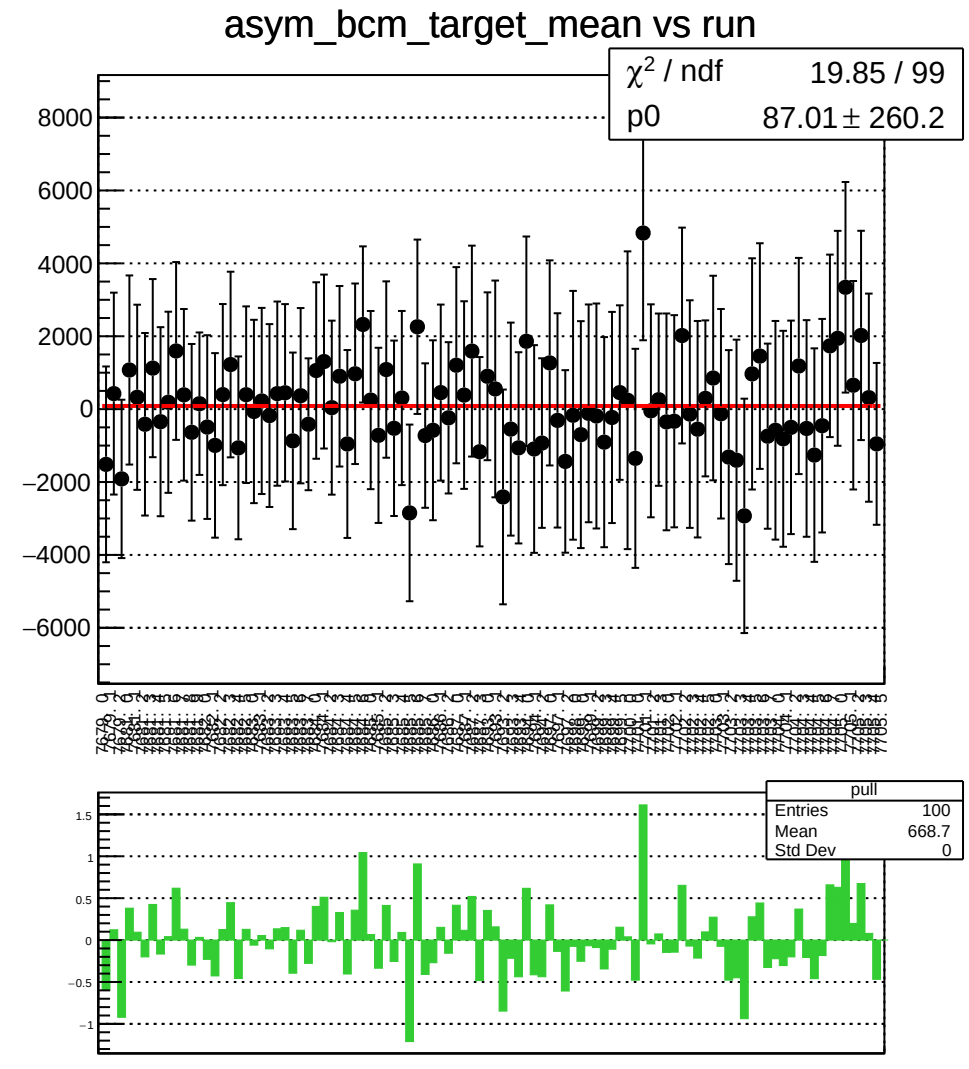

pull1D
Entries 100
Mean −1.003
Std Dev 2.766
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

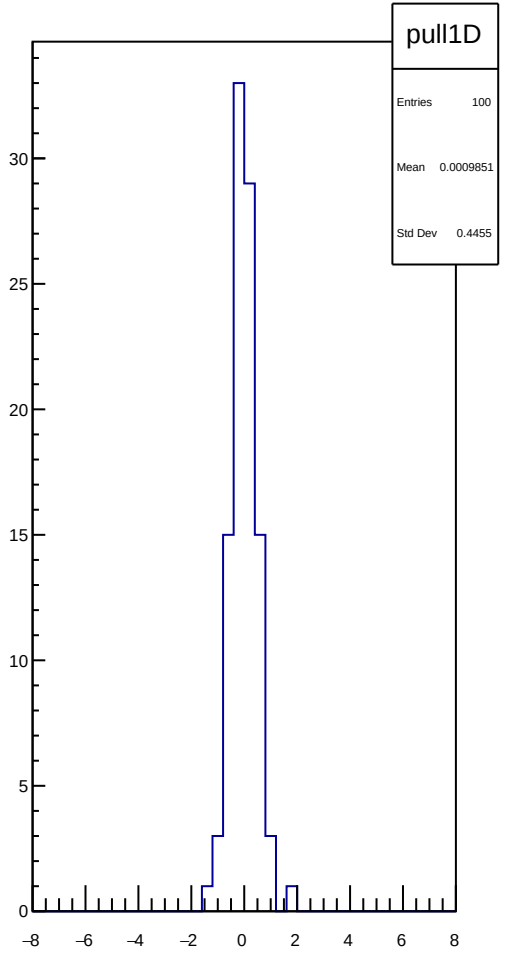

yield_bpm2i01WS_rms vs run
χ² / ndf 2.891e+04 / 99
p0 261.7 ± 0.1901
1800
1600
1400
1200
1000
800
600
400
200

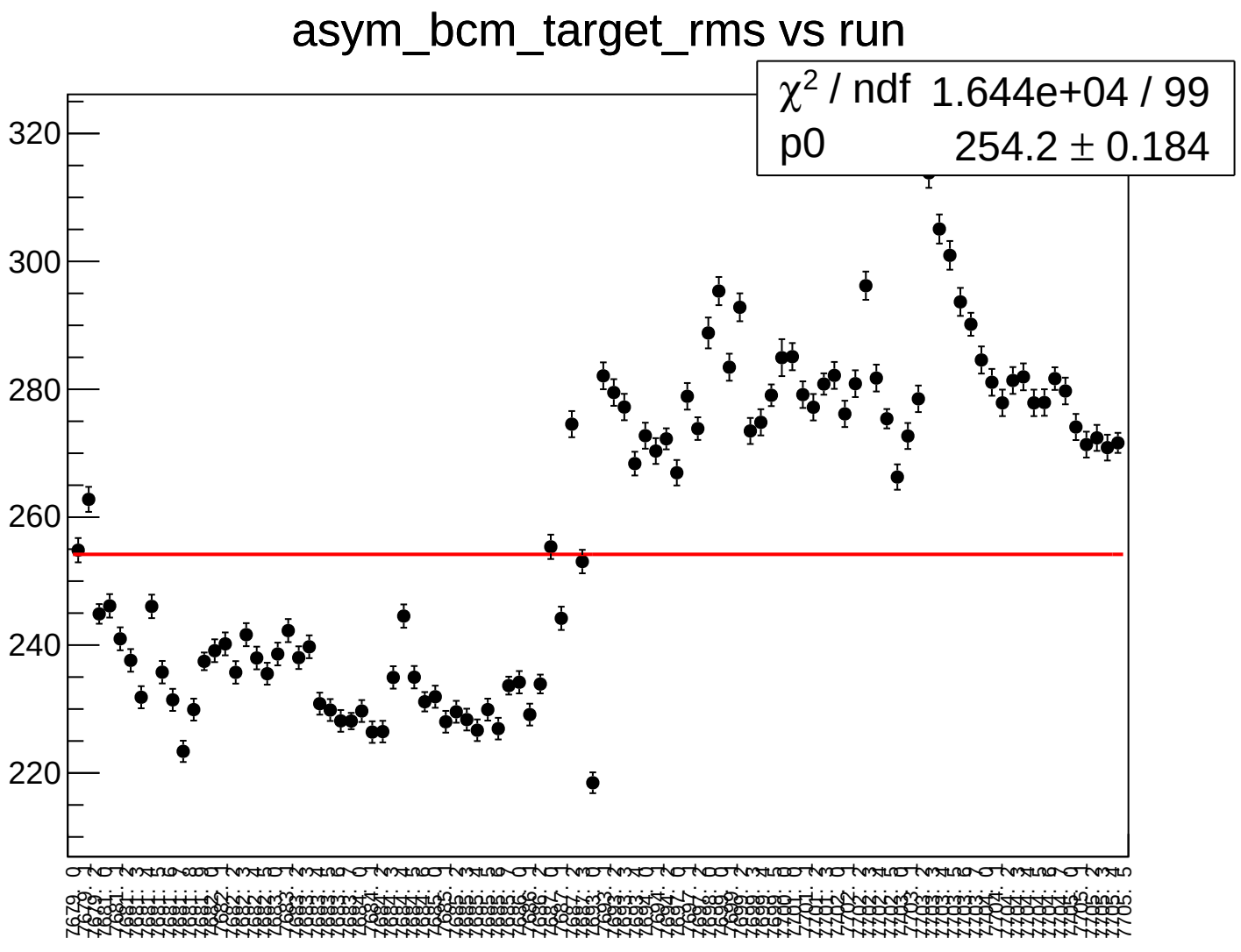

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 2.09e+06 / 99
p0 1.867e+05 ± 0.2993
187
186.5
186
185.5
185
184.5
184
183.5
183
pull
Entries 100
Mean −503.2
Std Dev 0
0
−200
−400
−600
−800
−1000
−1200
−1400

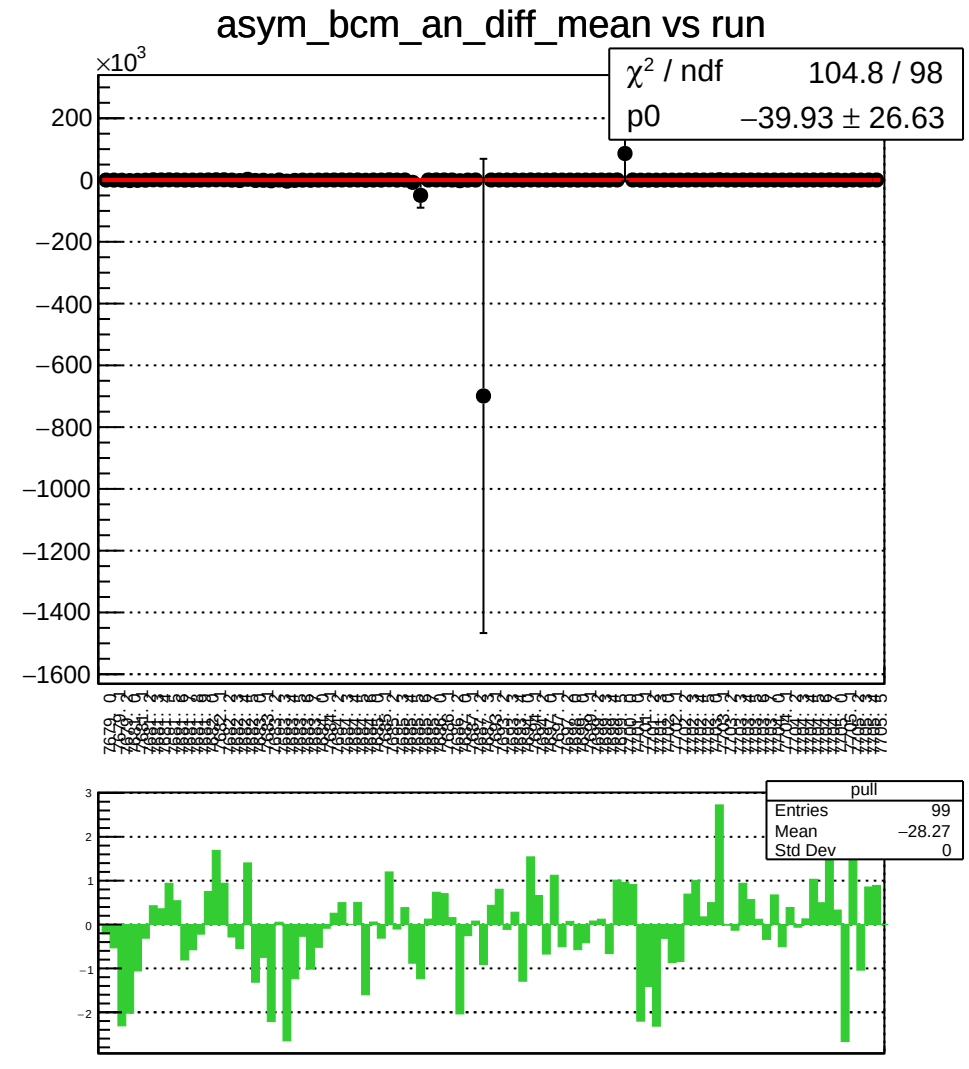

pull1D
Entries 100
Mean 2.286
Std Dev 4.419
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

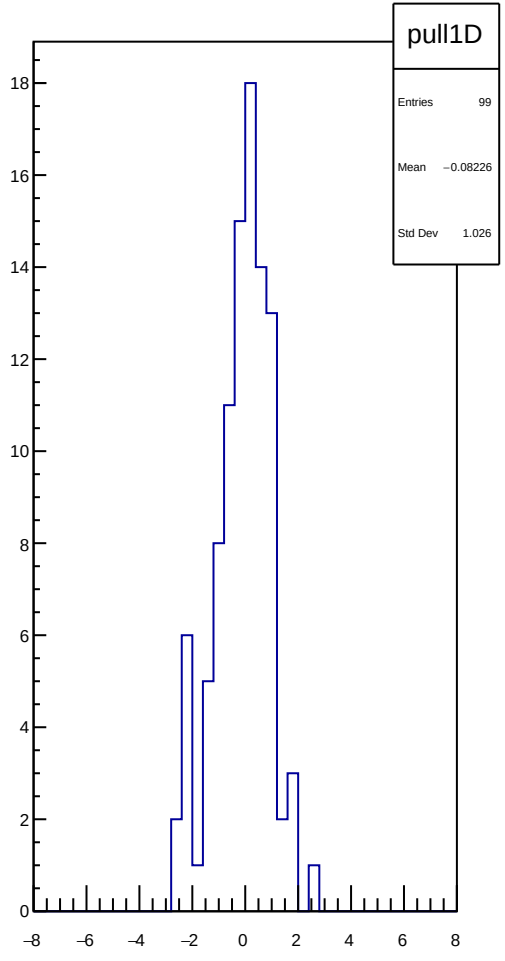

yield_bpm2i02WS_rms vs run
χ² / ndf 2.903e+04 / 99
p0 291.4 ± 0.2117
2000
1800
1600
1400
1200
1000
800
600
400
200

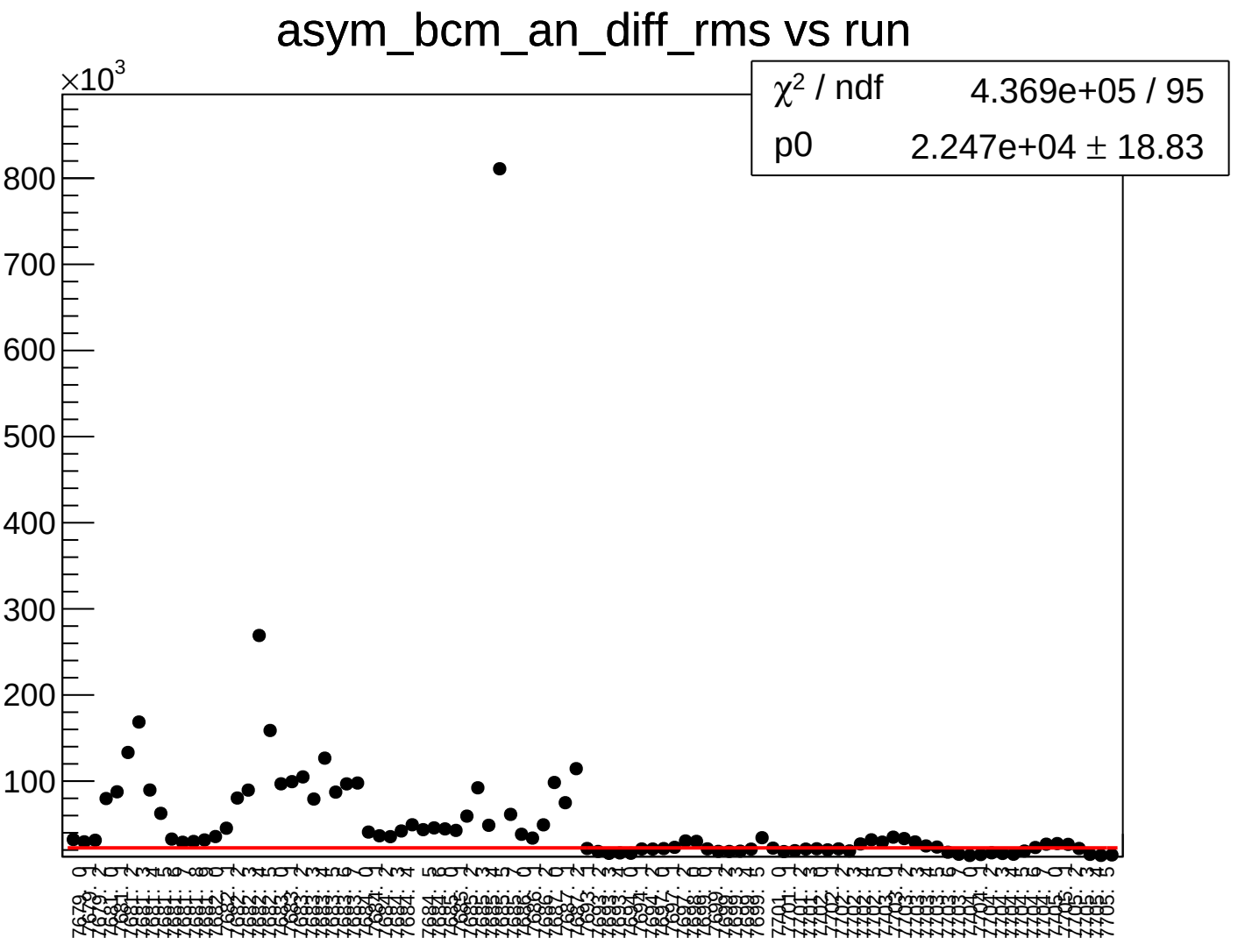

asym_bcm_target_mean vs run
χ² / ndf 19.85 / 99
p0 87.01 ± 260.2
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 668.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1

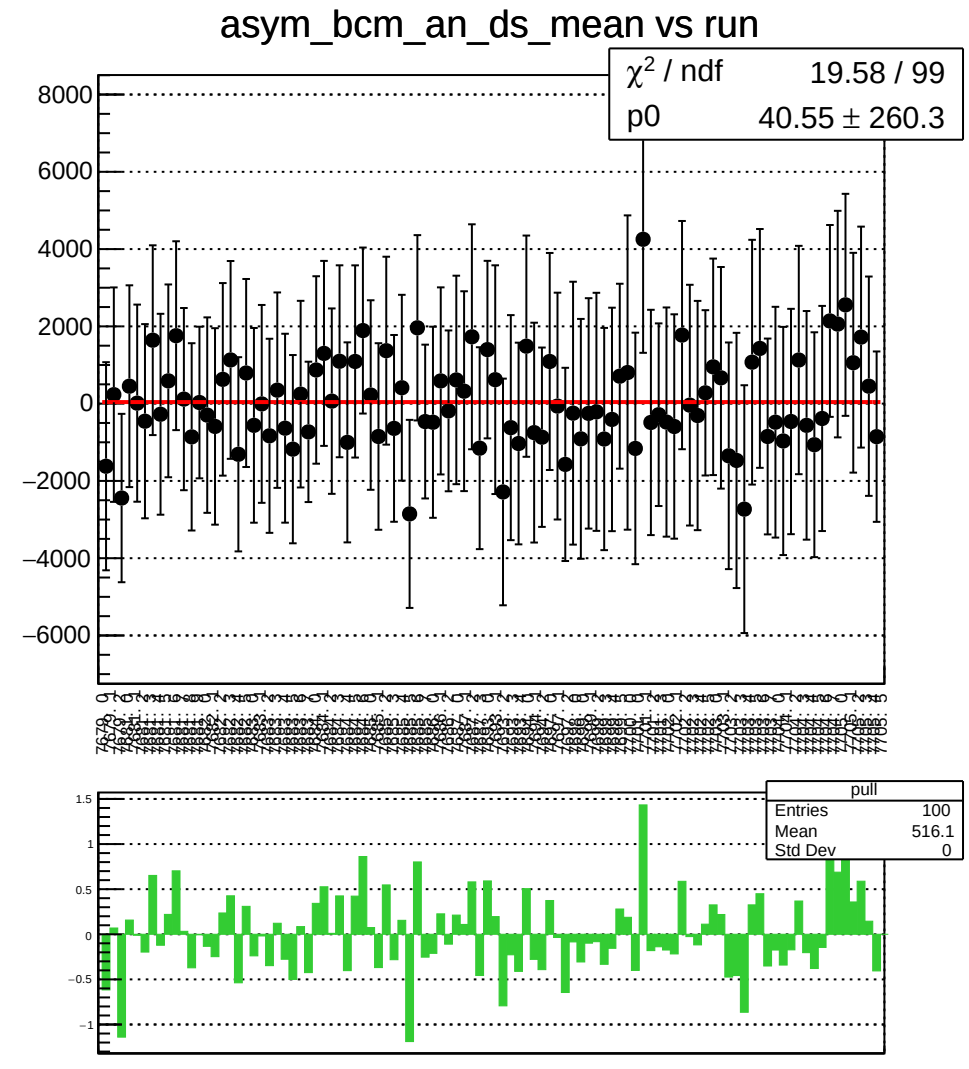

pull1D
Entries 100
Mean 0.0009851
Std Dev 0.4455
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

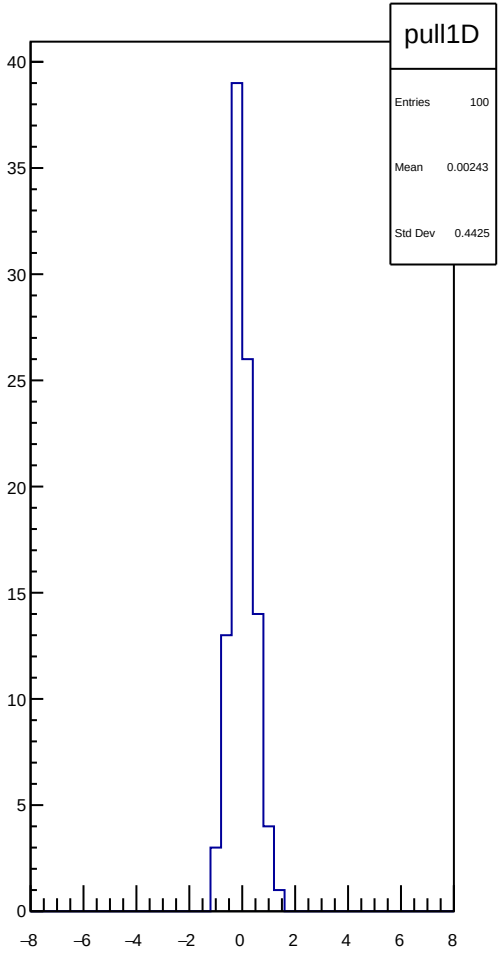

asym_bcm_target_rms vs run
χ² / ndf 1.644e+04 / 99
p0 254.2 ± 0.184
320
300
280
260
240
220

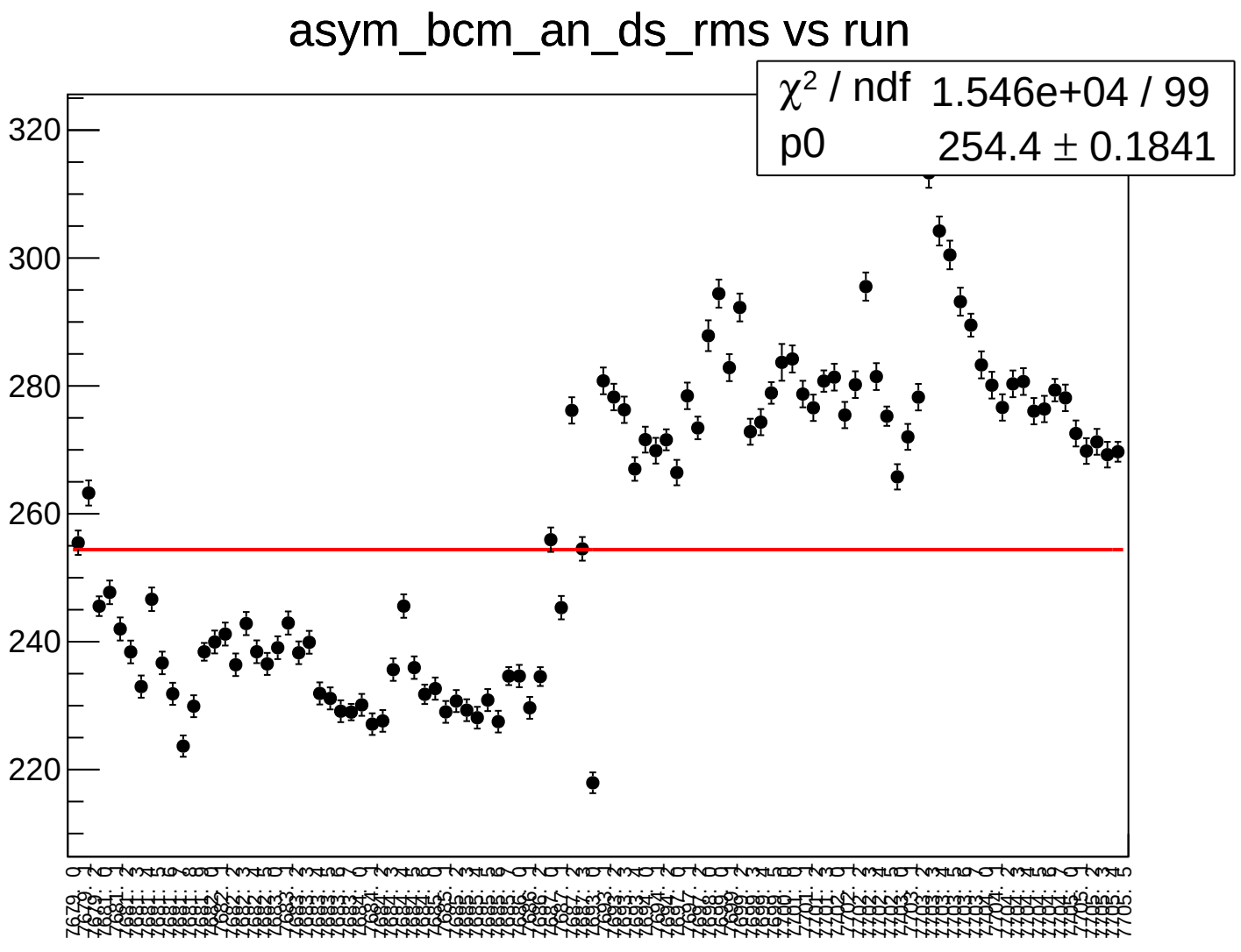

asym_bcm_an_diff_mean vs run
×10^3
χ² / ndf 104.8 / 98
p0 −39.93 ± 26.63
pull
Entries 99
Mean −28.27
Std Dev 0

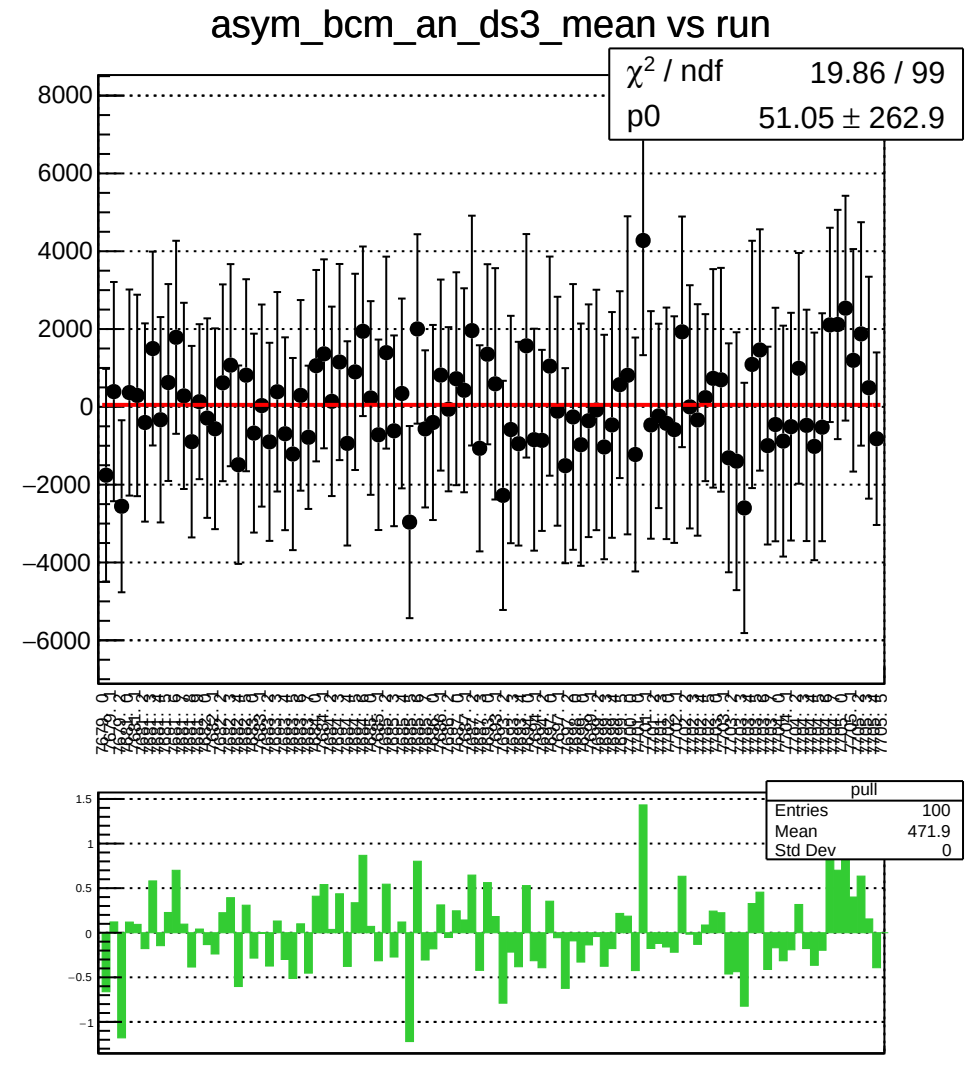

pull1D
Entries 99
Mean −0.08226
Std Dev 1.026

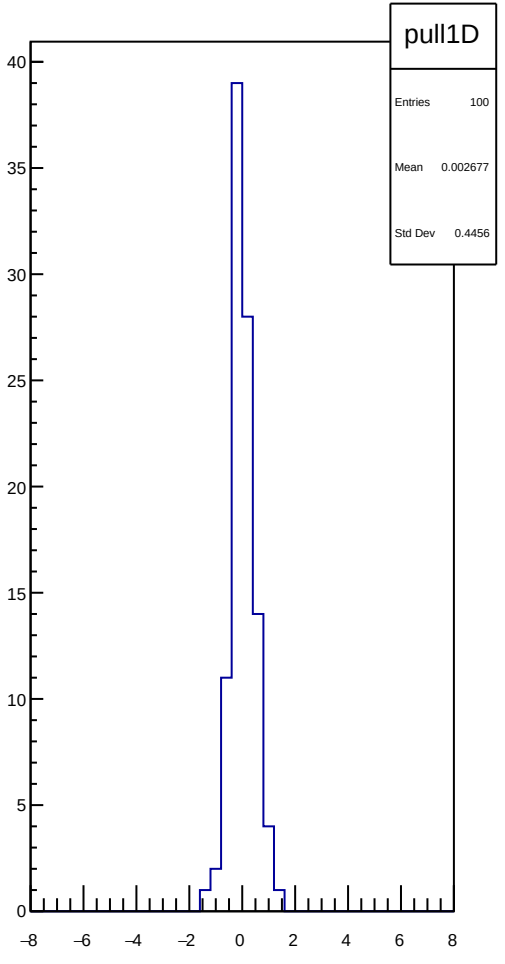

asym_bcm_an_diff_rms vs run
×10^3
800
700
600
500
400
300
200
100
χ² / ndf 4.369e+05 / 95
p0 2.247e+04 ± 18.83

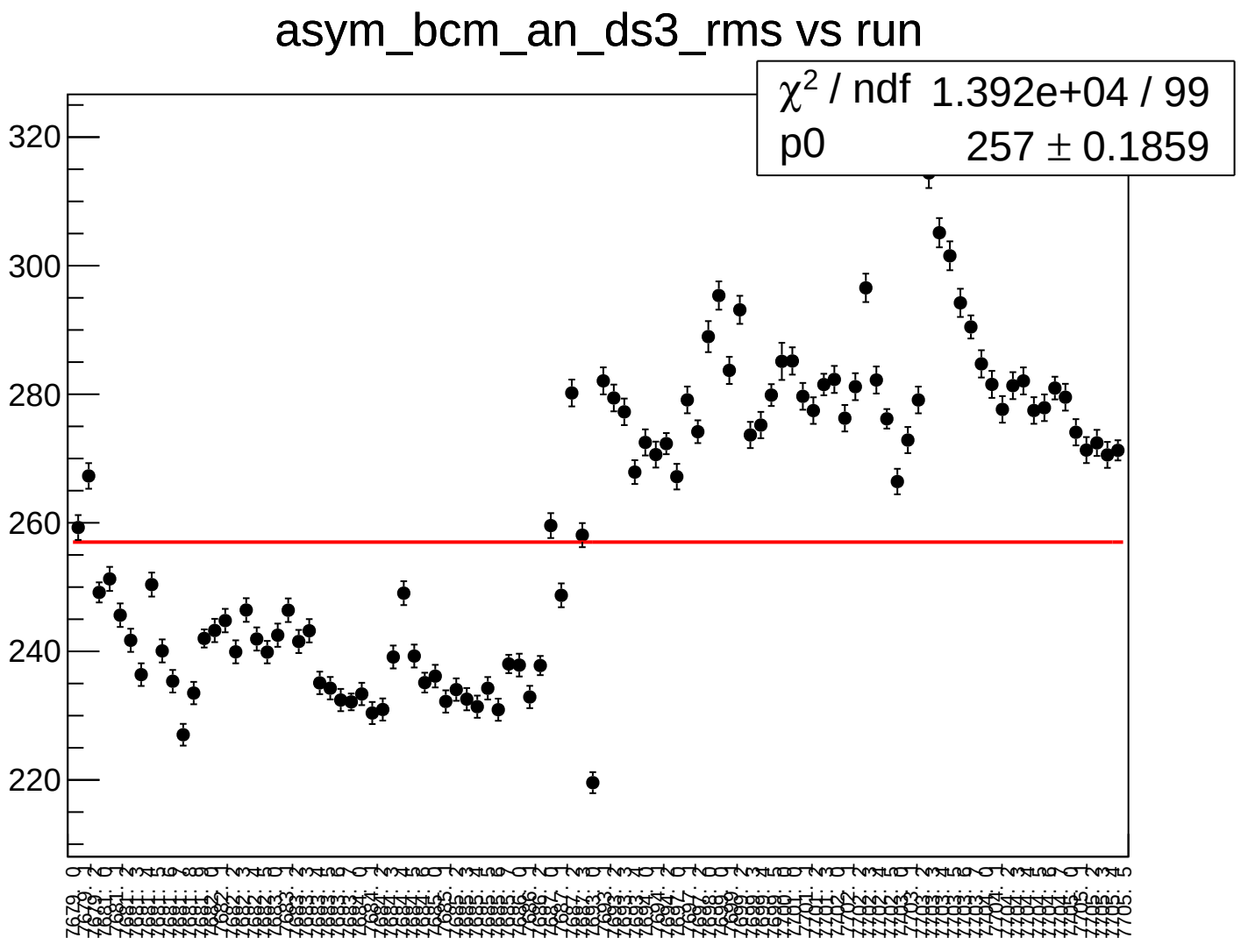

asym_bcm_an_ds_mean vs run
χ² / ndf 19.58 / 99
p0 40.55 ± 260.3
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 516.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1

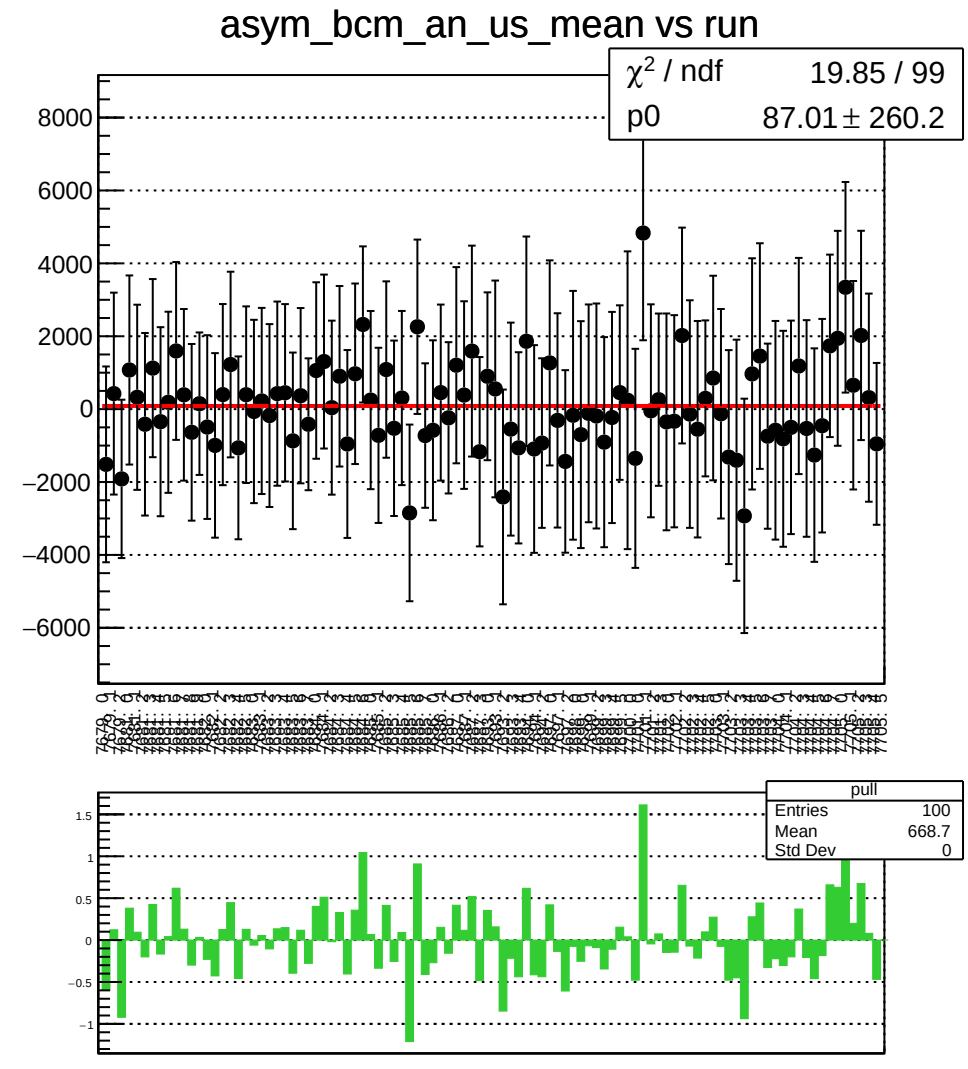

pull1D
Entries 100
Mean 0.00243
Std Dev 0.4425
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

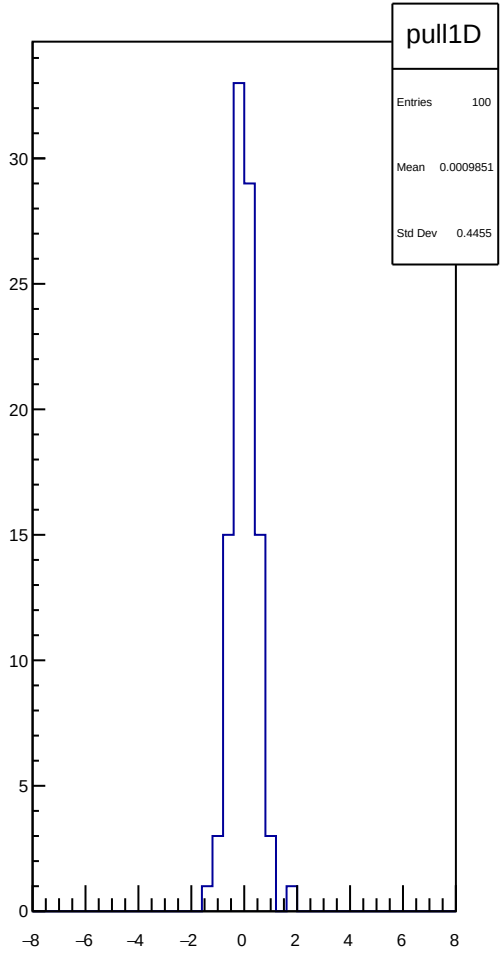

asym_bcm_an_ds_rms vs run
χ² / ndf 1.546e+04 / 99
p0 254.4 ± 0.1841
320
300
280
260
240
220

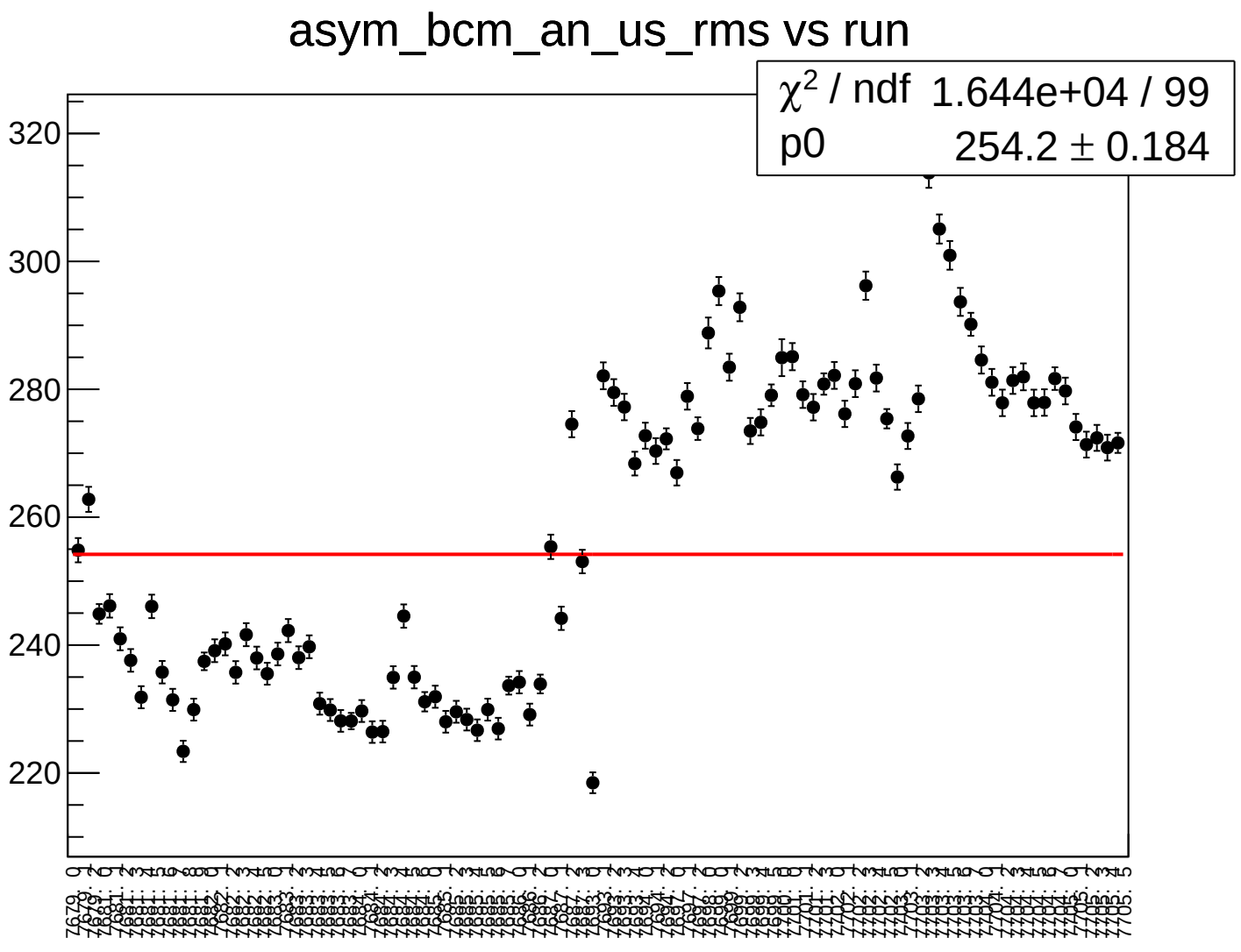

asym_bcm_an_ds3_mean vs run
χ² / ndf 19.86 / 99
p0 51.05 ± 262.9
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 471.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1

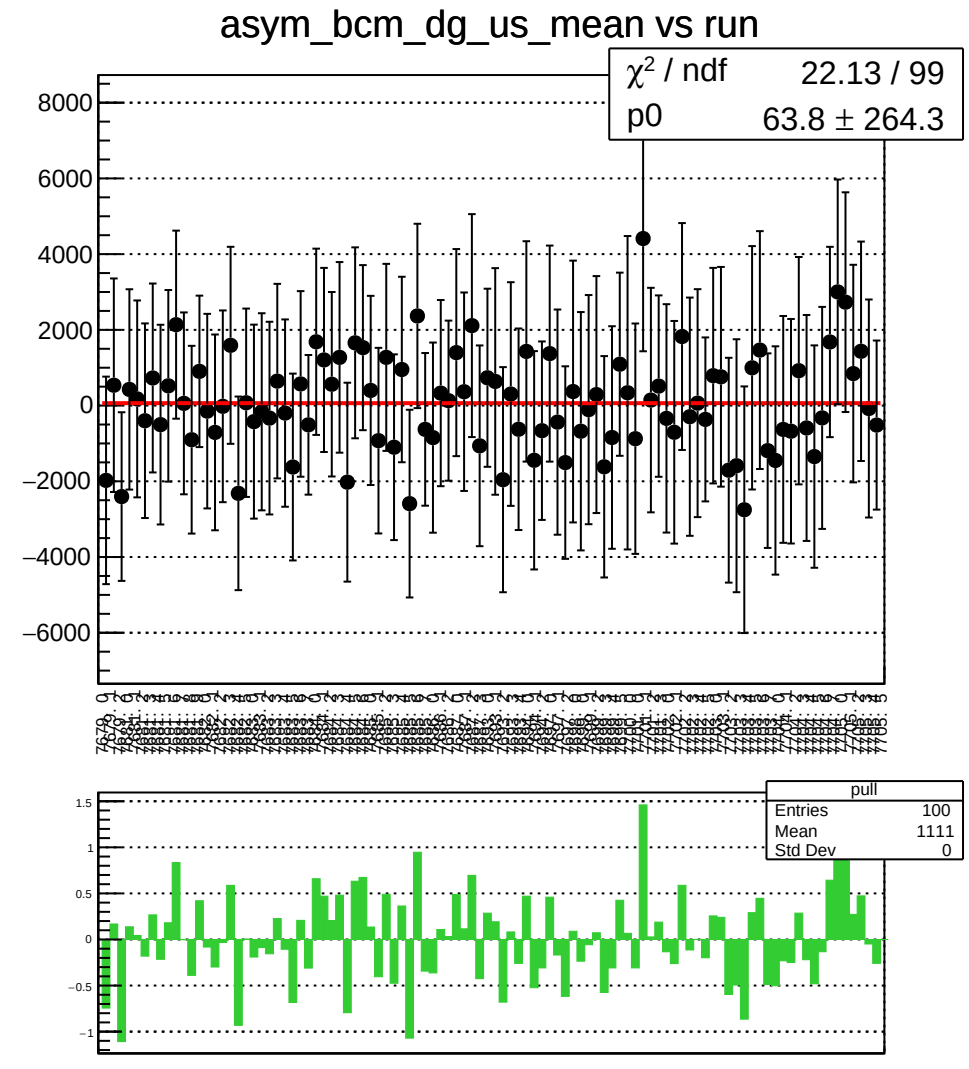

pull1D
Entries 100
Mean 0.002677
Std Dev 0.4456
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

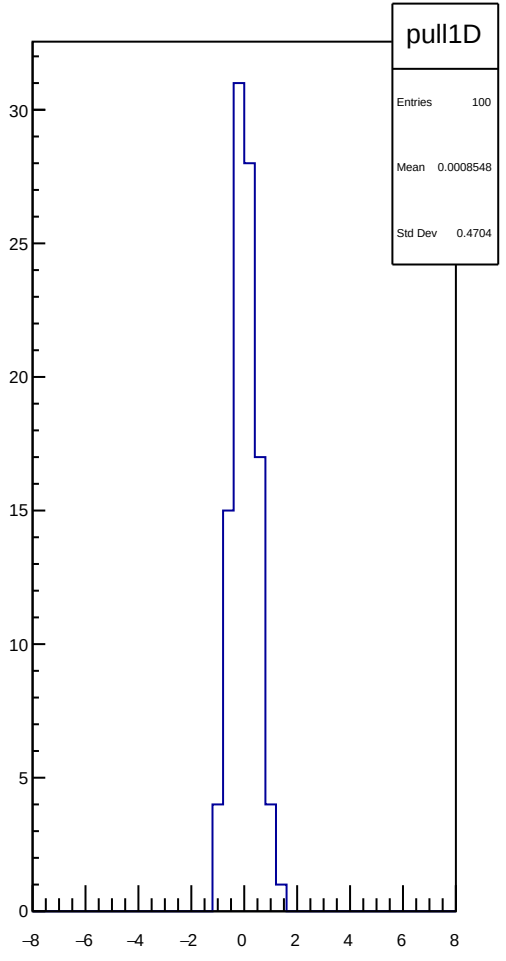

asym_bcm_an_ds3_rms vs run
χ² / ndf 1.392e+04 / 99
p0 257 ± 0.1859
320
300
280
260
240
220

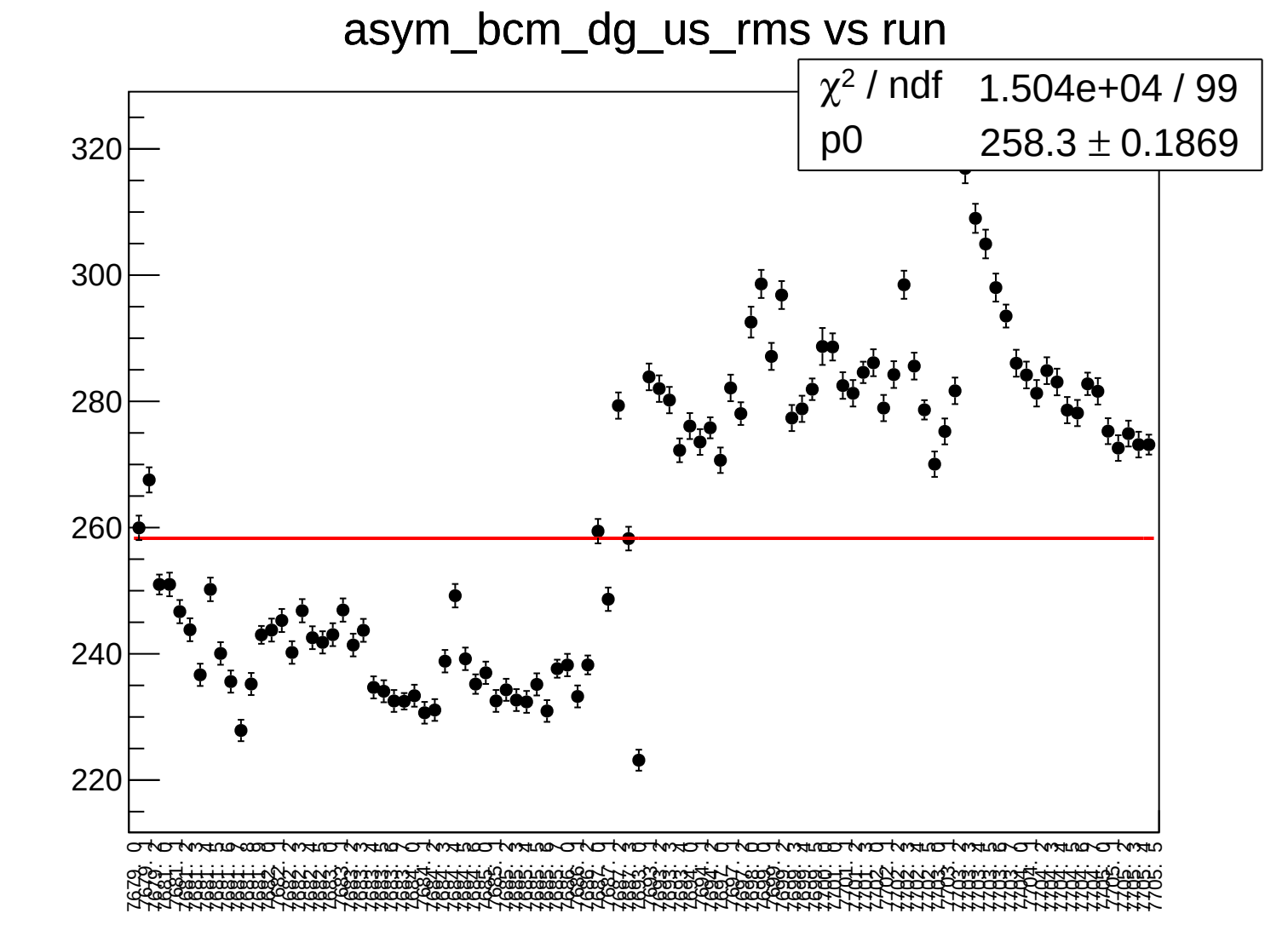

asym_bcm_an_us_mean vs run
χ² / ndf 19.85 / 99
p0 87.01 ± 260.2
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 668.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1

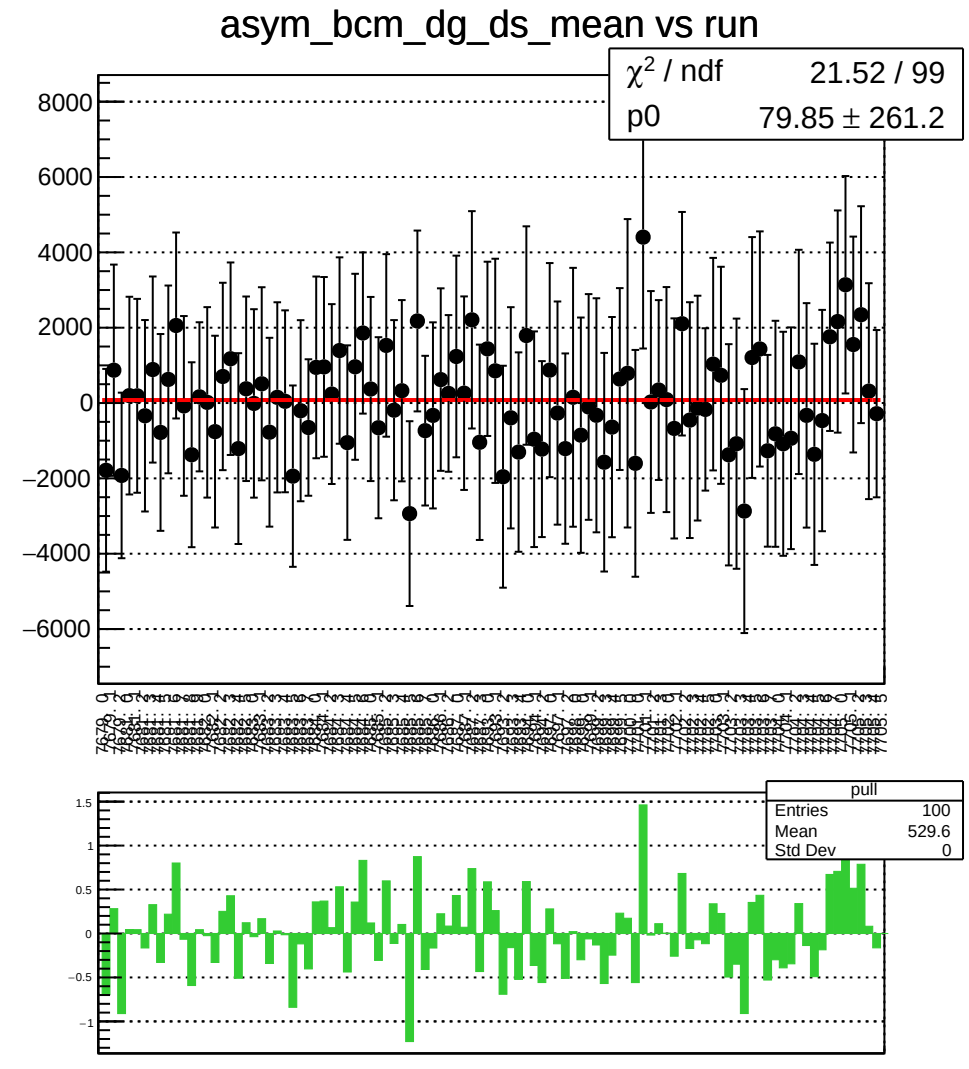

pull1D
Entries 100
Mean 0.0009851
Std Dev 0.4455
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

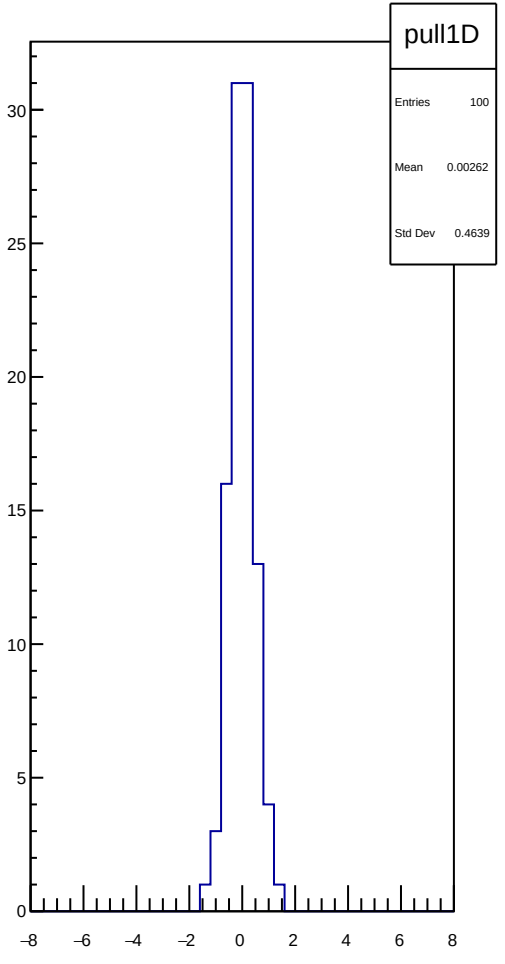

asym_bcm_an_us_rms vs run
χ² / ndf 1.644e+04 / 99
p0 254.2 ± 0.184
320
300
280
260
240
220

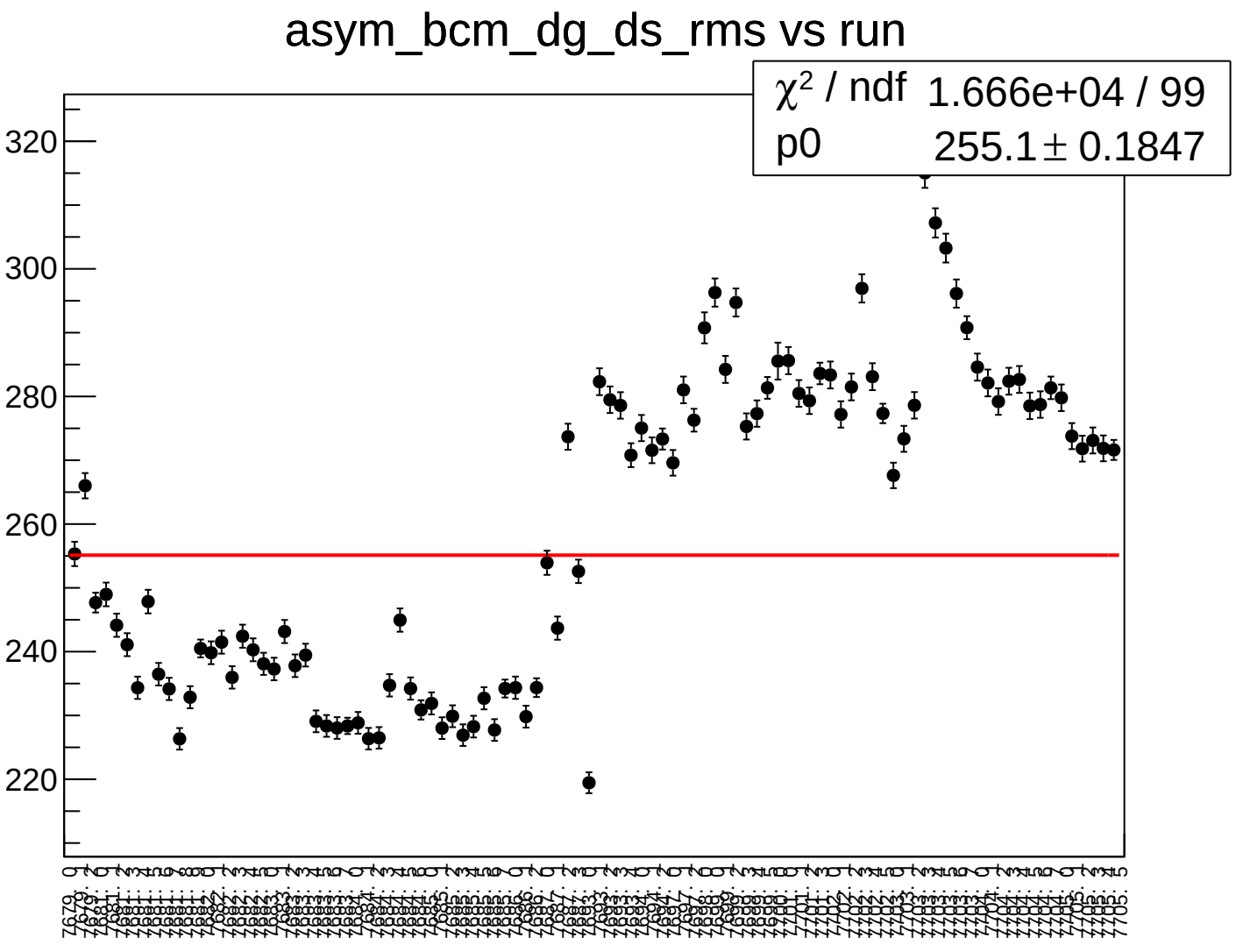

asym_bcm_dg_us_mean vs run
χ² / ndf 22.13 / 99
p0 63.8 ± 264.3
pull
Entries 100
Mean 1111
Std Dev 0

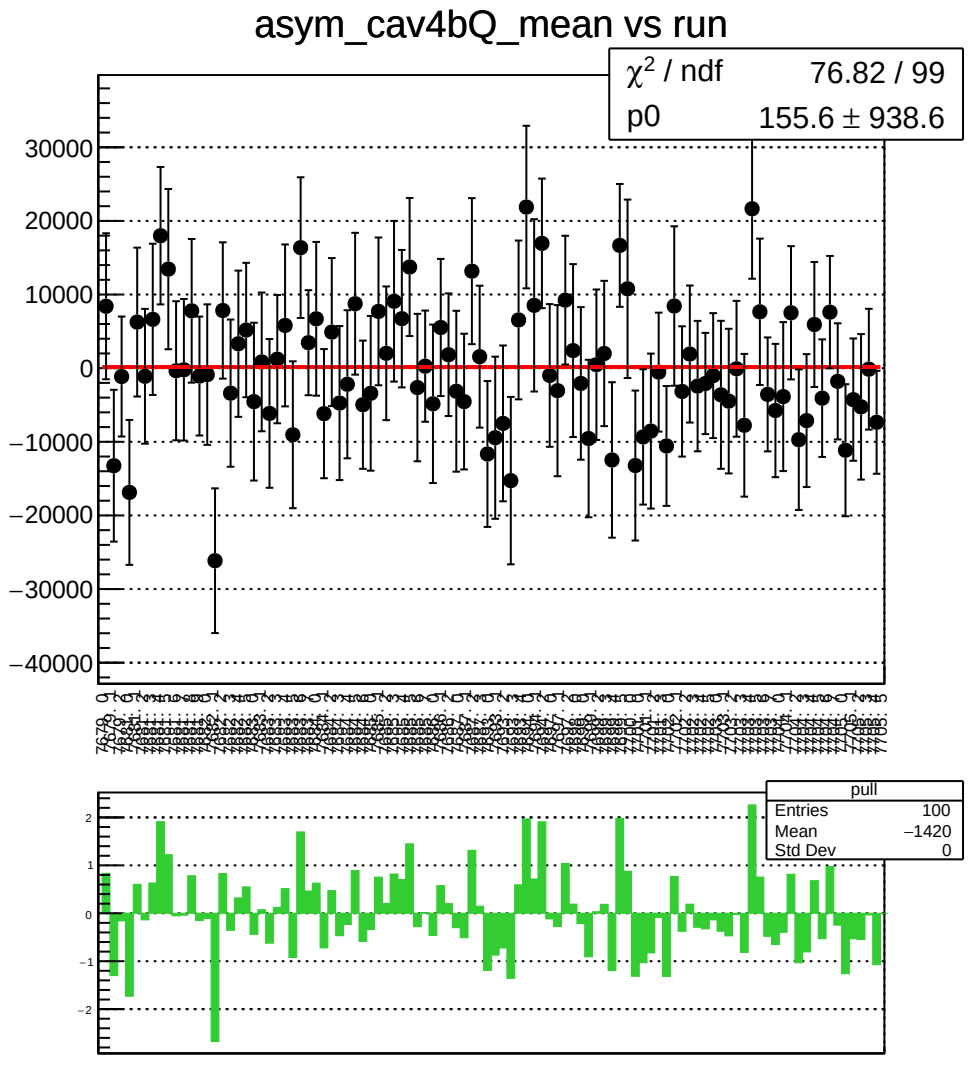

pull1D
Entries 100
Mean 0.0008548
Std Dev 0.4704

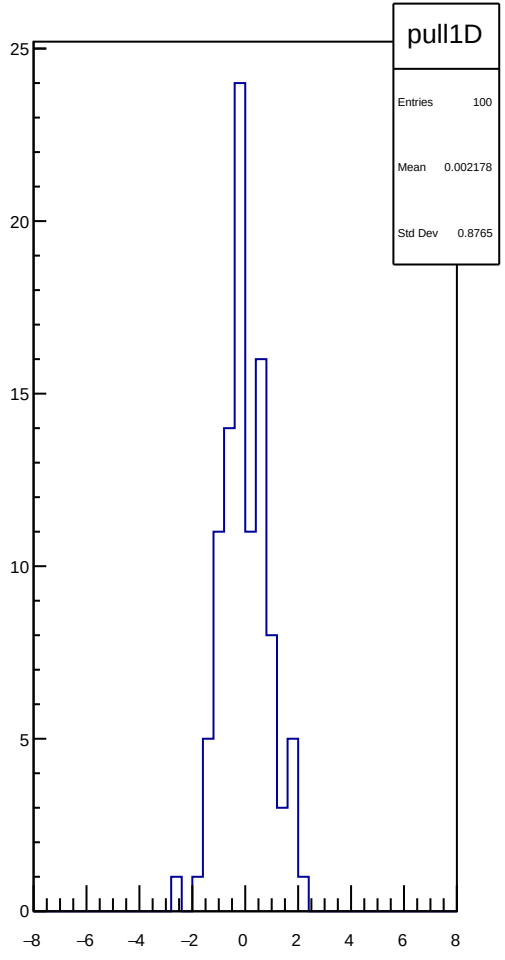

asym_bcm_dg_us_rms vs run
χ² / ndf 1.504e+04 / 99
p0 258.3 ± 0.1869
320
300
280
260
240
220

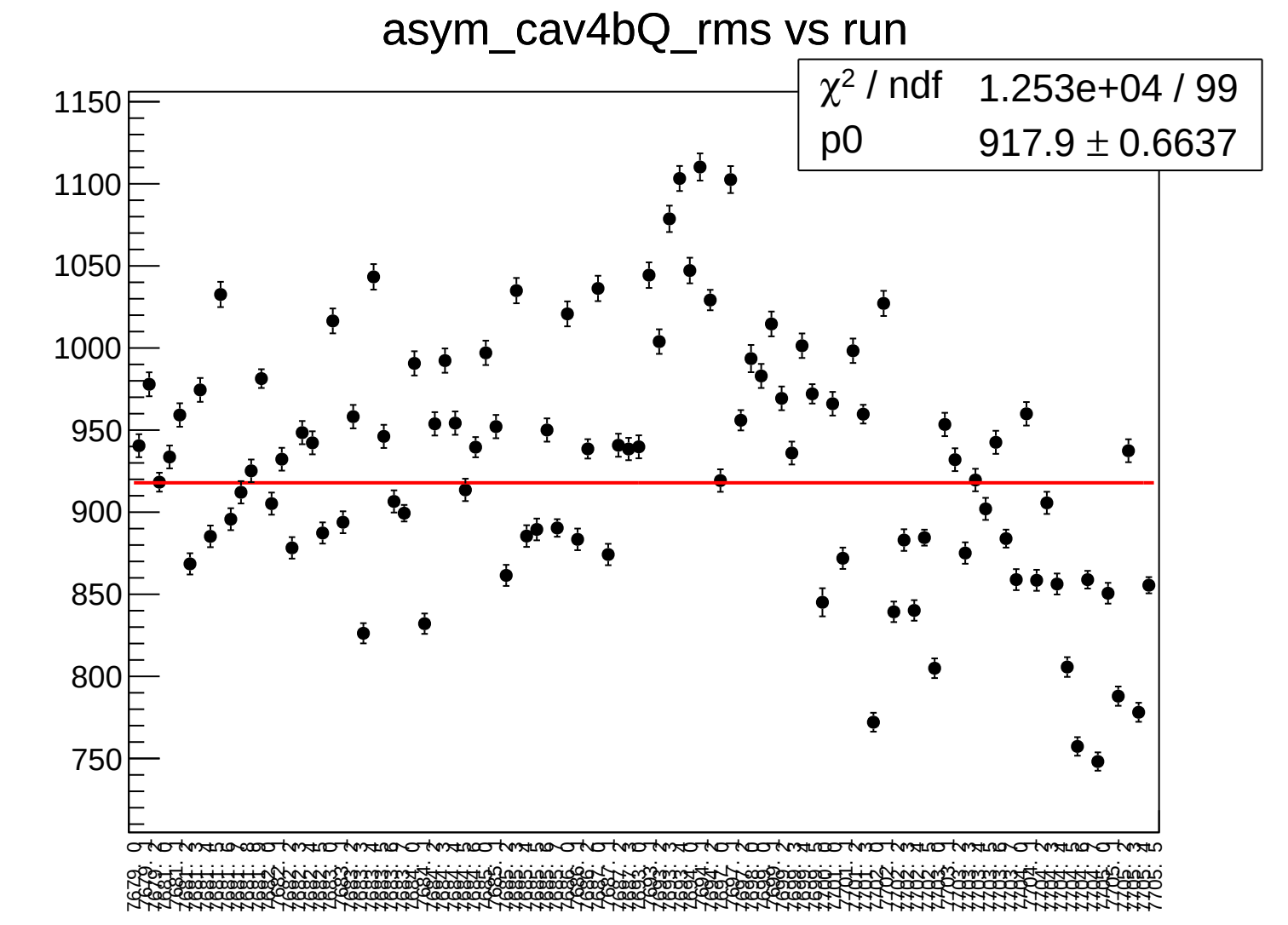

asym_bcm_dg_ds_mean vs run
χ² / ndf 21.52 / 99
p0 79.85 ± 261.2
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 529.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1

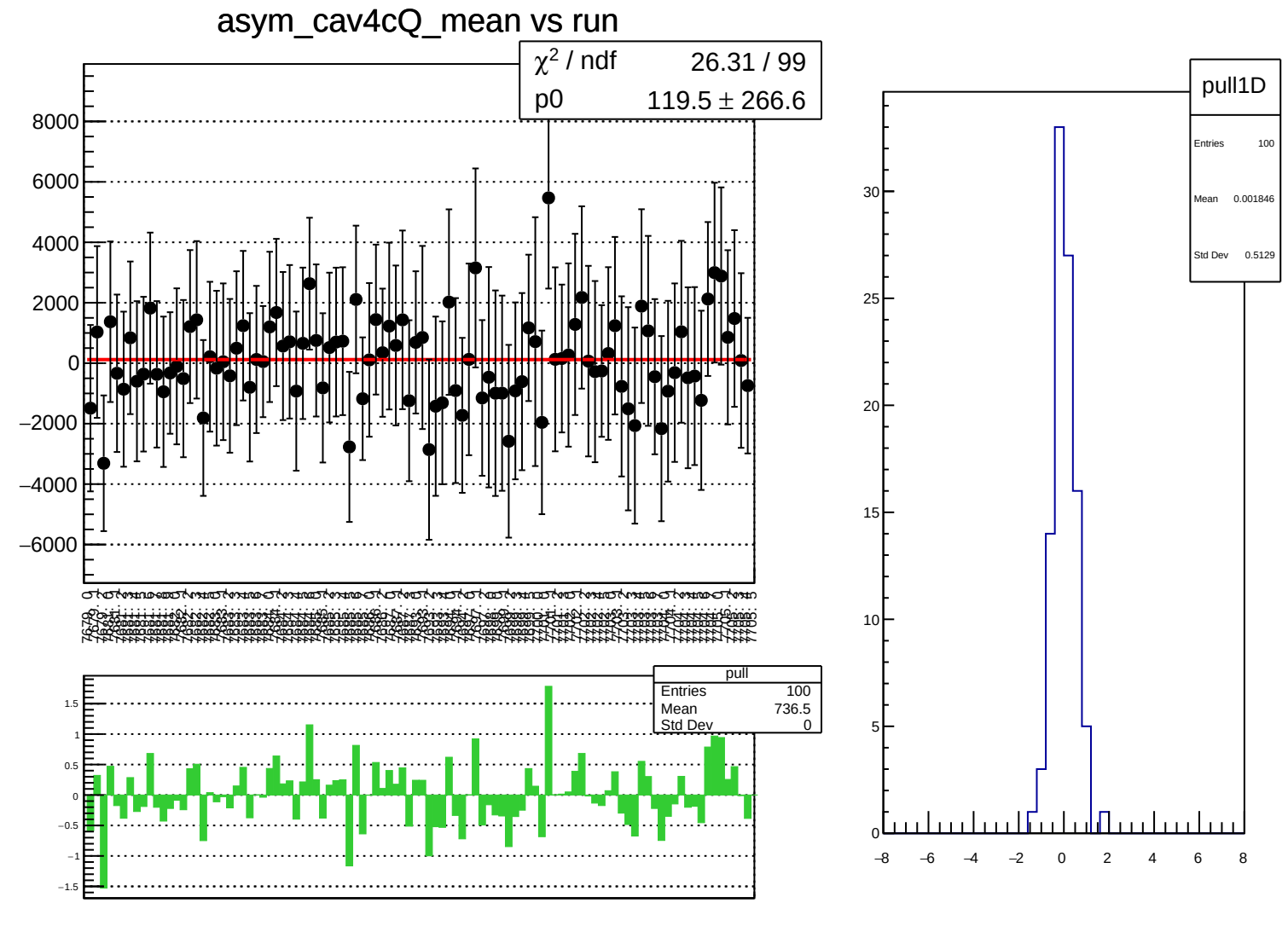

pull1D
Entries 100
Mean 0.00262
Std Dev 0.4639
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

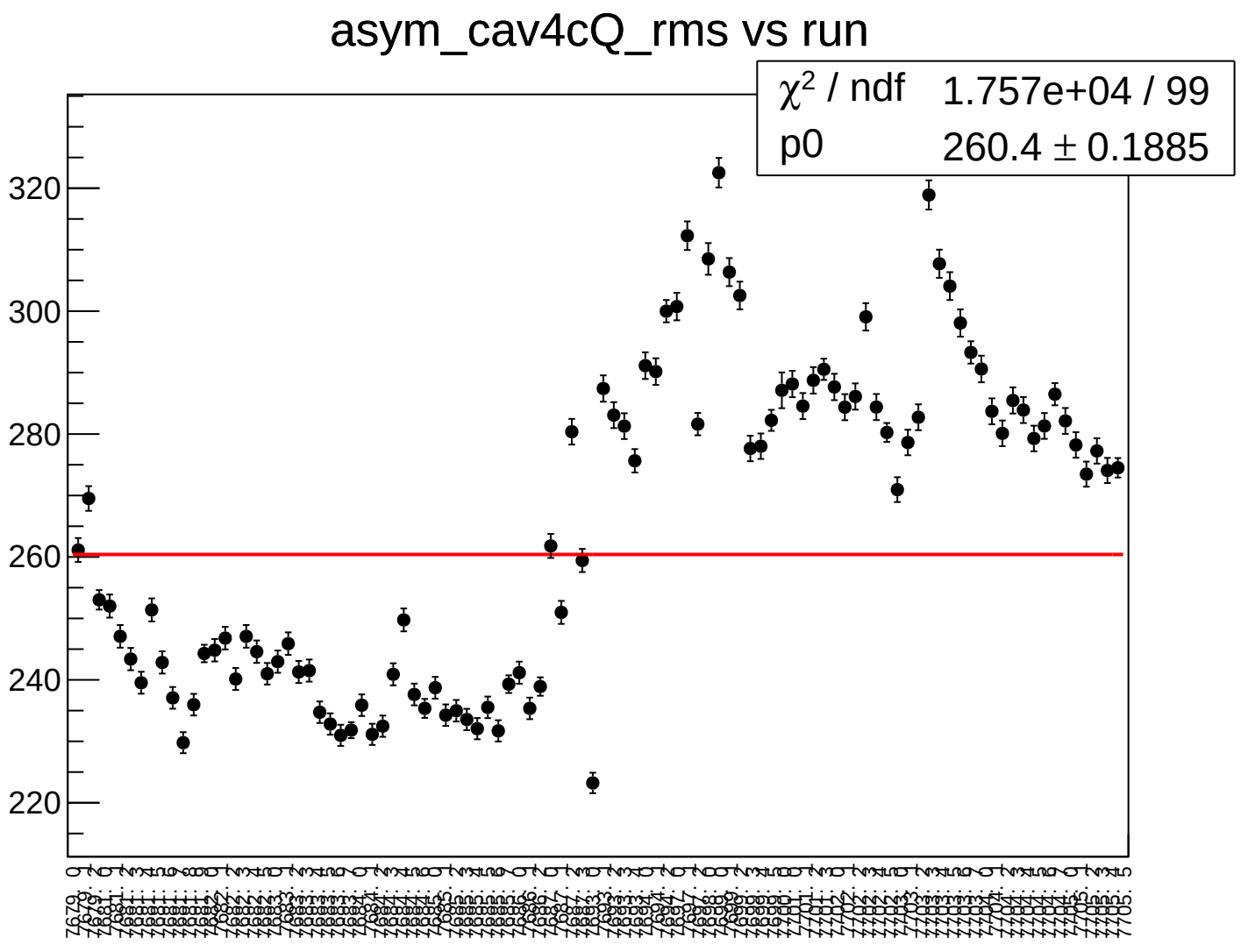

asym_bcm_dg_ds_rms vs run
χ² / ndf 1.666e+04 / 99
p0 255.1 ± 0.1847
320
300
280
260
240
220

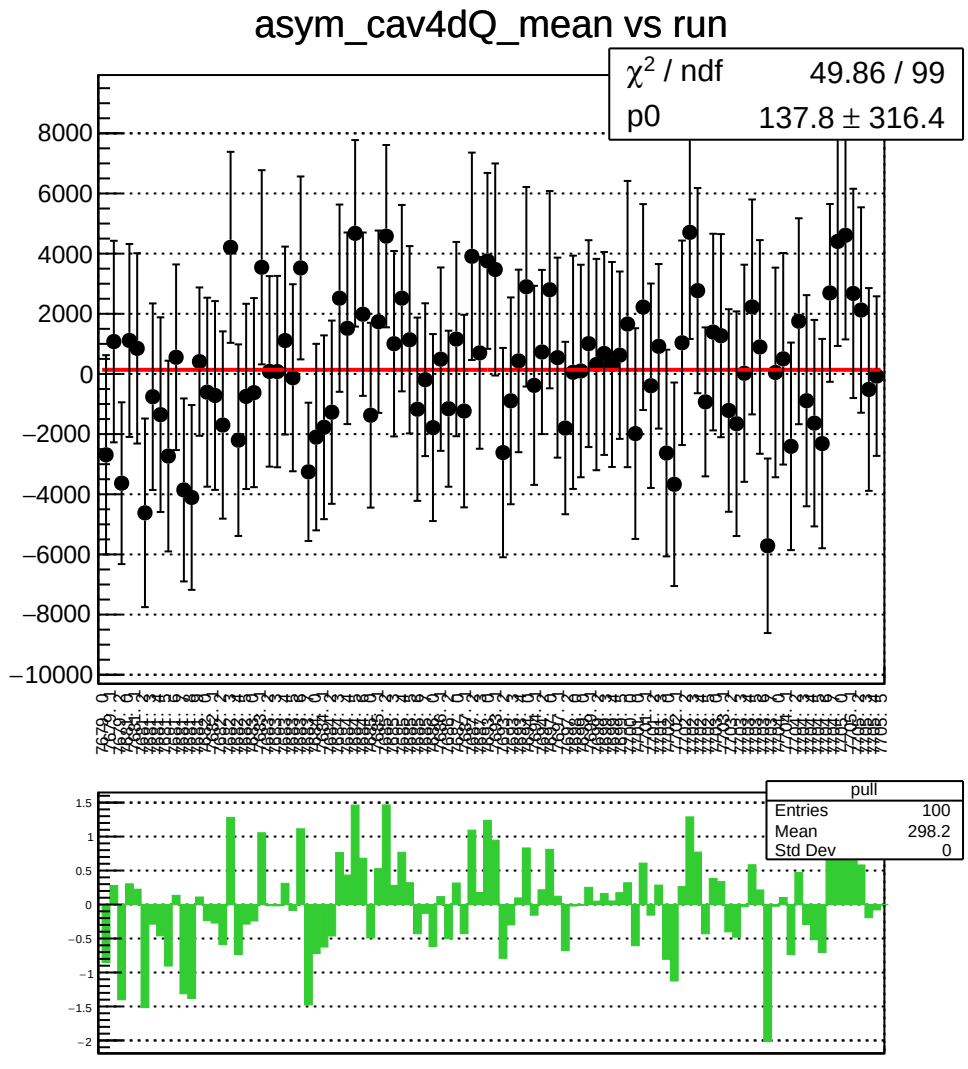

asym_cav4bQ_mean vs run
χ² / ndf 76.82 / 99
p0 155.6 ± 938.6
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 100
Mean −1420
Std Dev 0
2
1
0
−1
−2

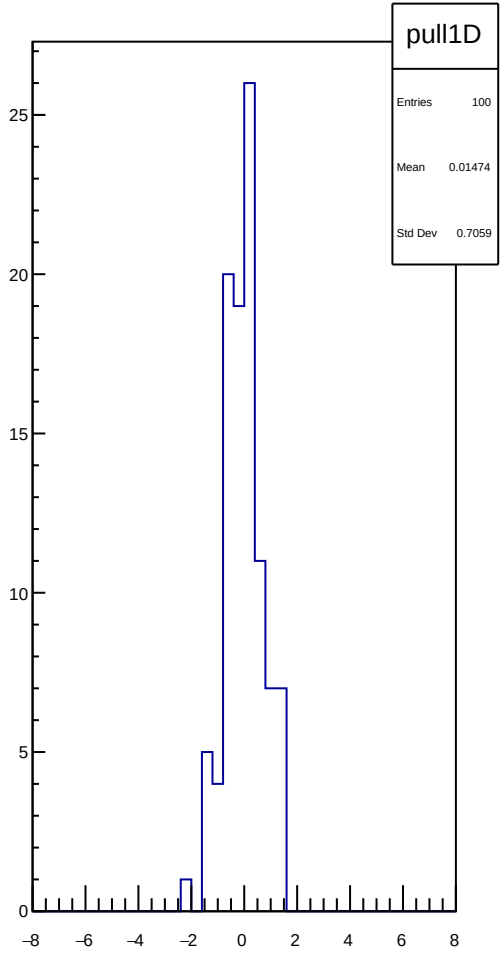

pull1D
Entries 100
Mean 0.002178
Std Dev 0.8765
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

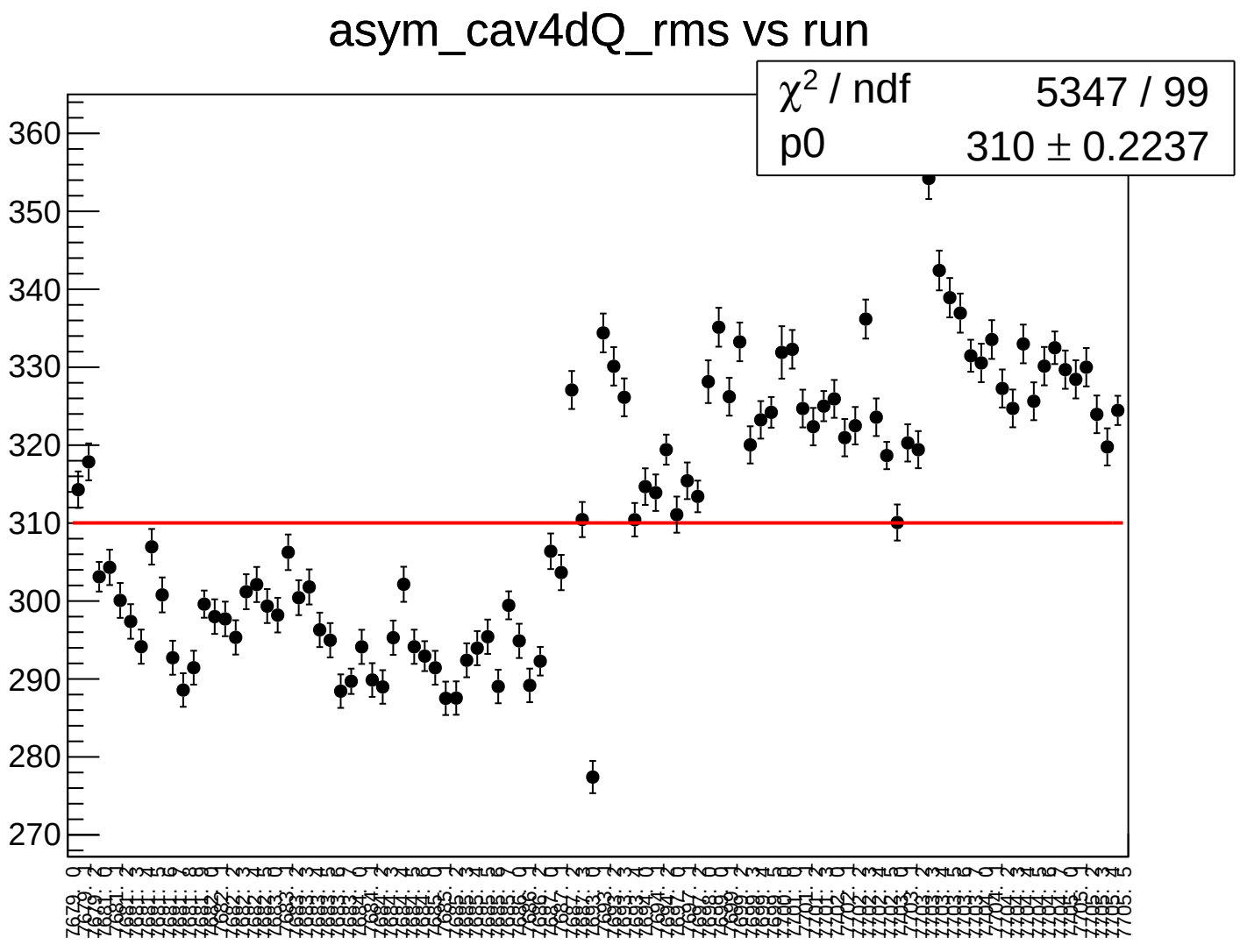

asym_cav4bQ_rms vs run
χ² / ndf 1.253e+04 / 99
p0 917.9 ± 0.6637
1150
1100
1050
1000
950
900
850
800
750

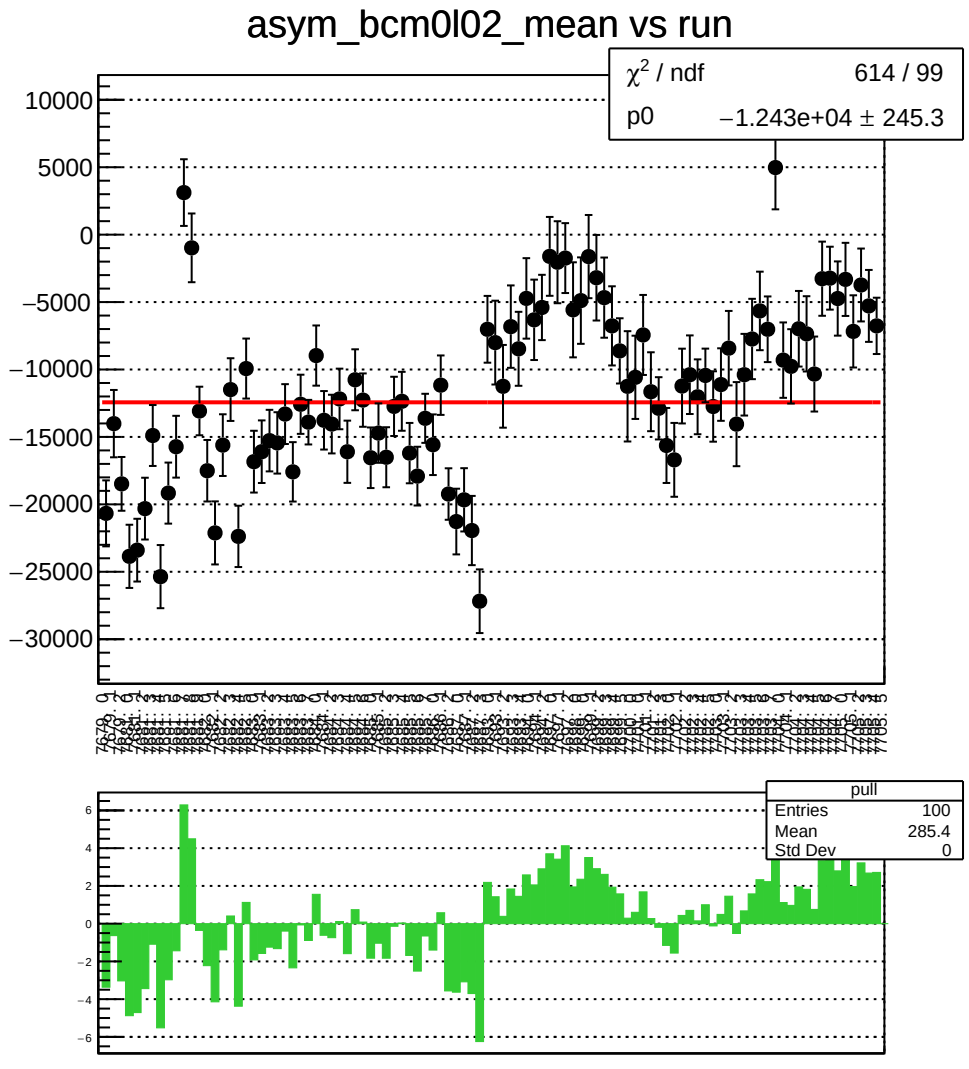

asym_cav4cQ_mean vs run
χ² / ndf 26.31 / 99
p0 119.5 ± 266.6
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 736.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 100
Mean 0.001846
Std Dev 0.5129
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

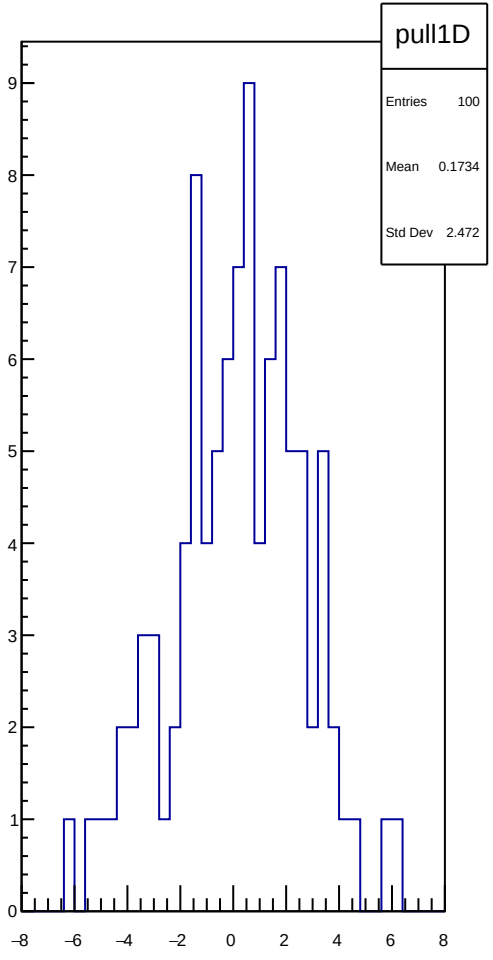

asym_cav4cQ_rms vs run
χ² / ndf 1.757e+04 / 99
p0 260.4 ± 0.1885
320
300
280
260
240
220

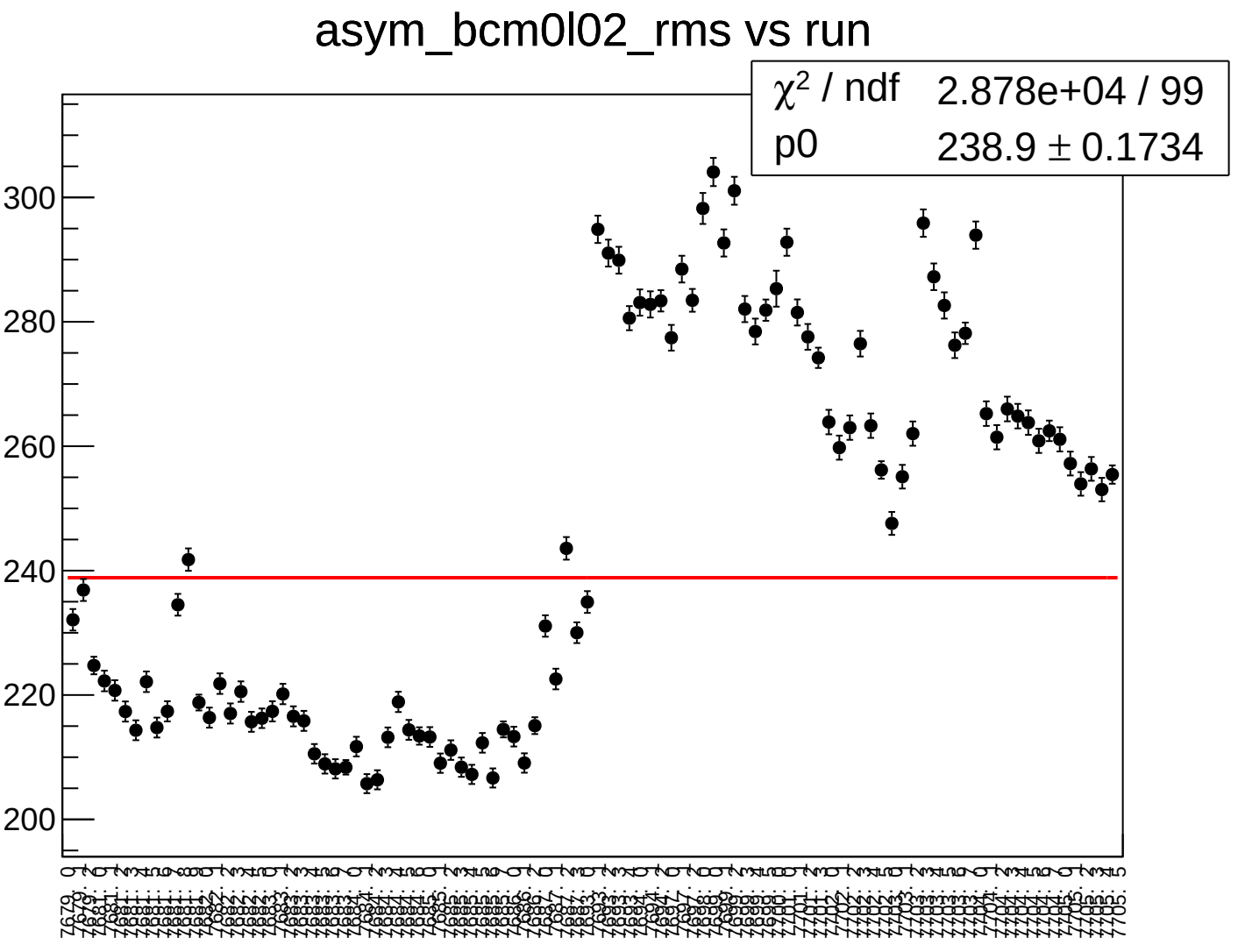

asym_cav4dQ_mean vs run
χ² / ndf 49.86 / 99
p0 137.8 ± 316.4
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 100
Mean 298.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

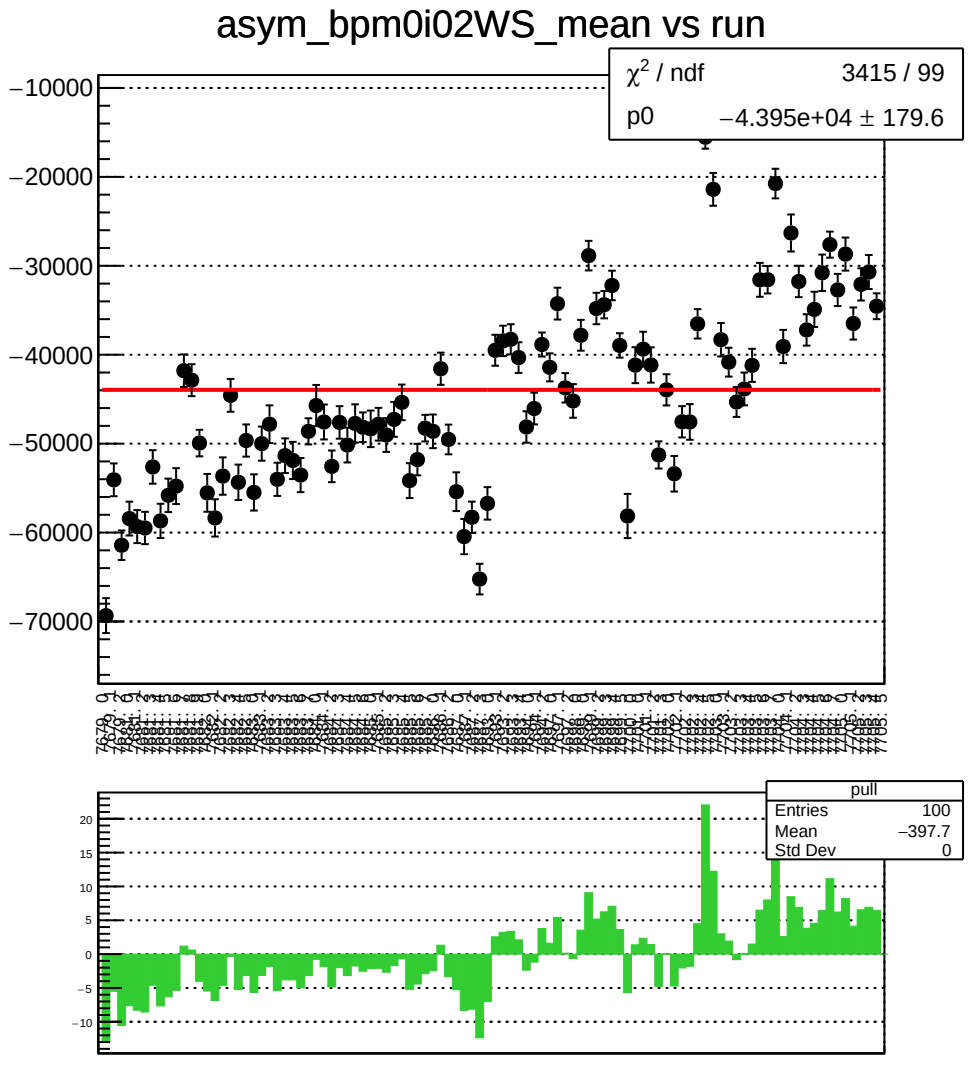

pull1D
Entries 100
Mean 0.01474
Std Dev 0.7059
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

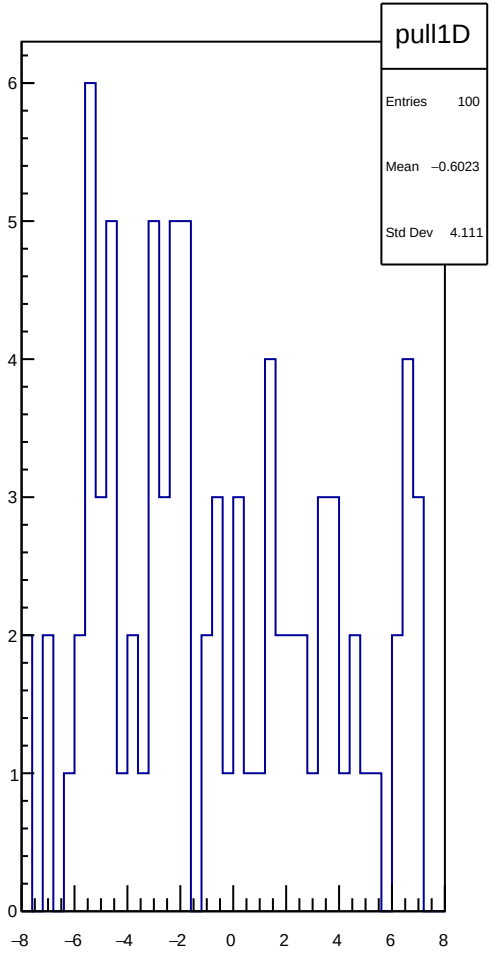

asym_cav4dQ_rms vs run
χ^2 / ndf 5347 / 99
p0 310 ± 0.2237
360
350
340
330
320
310
300
290
280
270

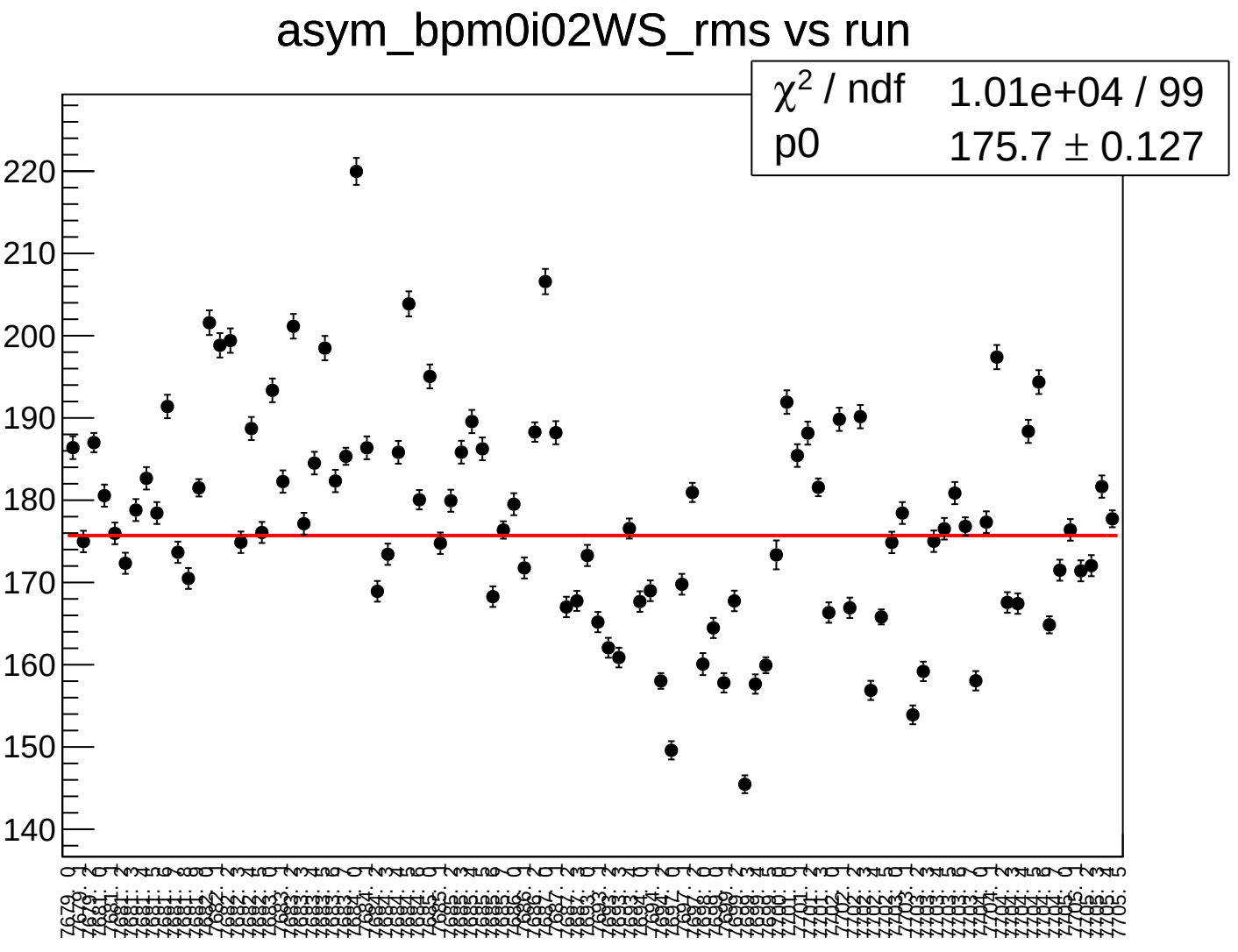

asym_bcm0l02_mean vs run
χ² / ndf 614 / 99
p0 −1.243e+04 ± 245.3
pull
Entries 100
Mean 285.4
Std Dev 0

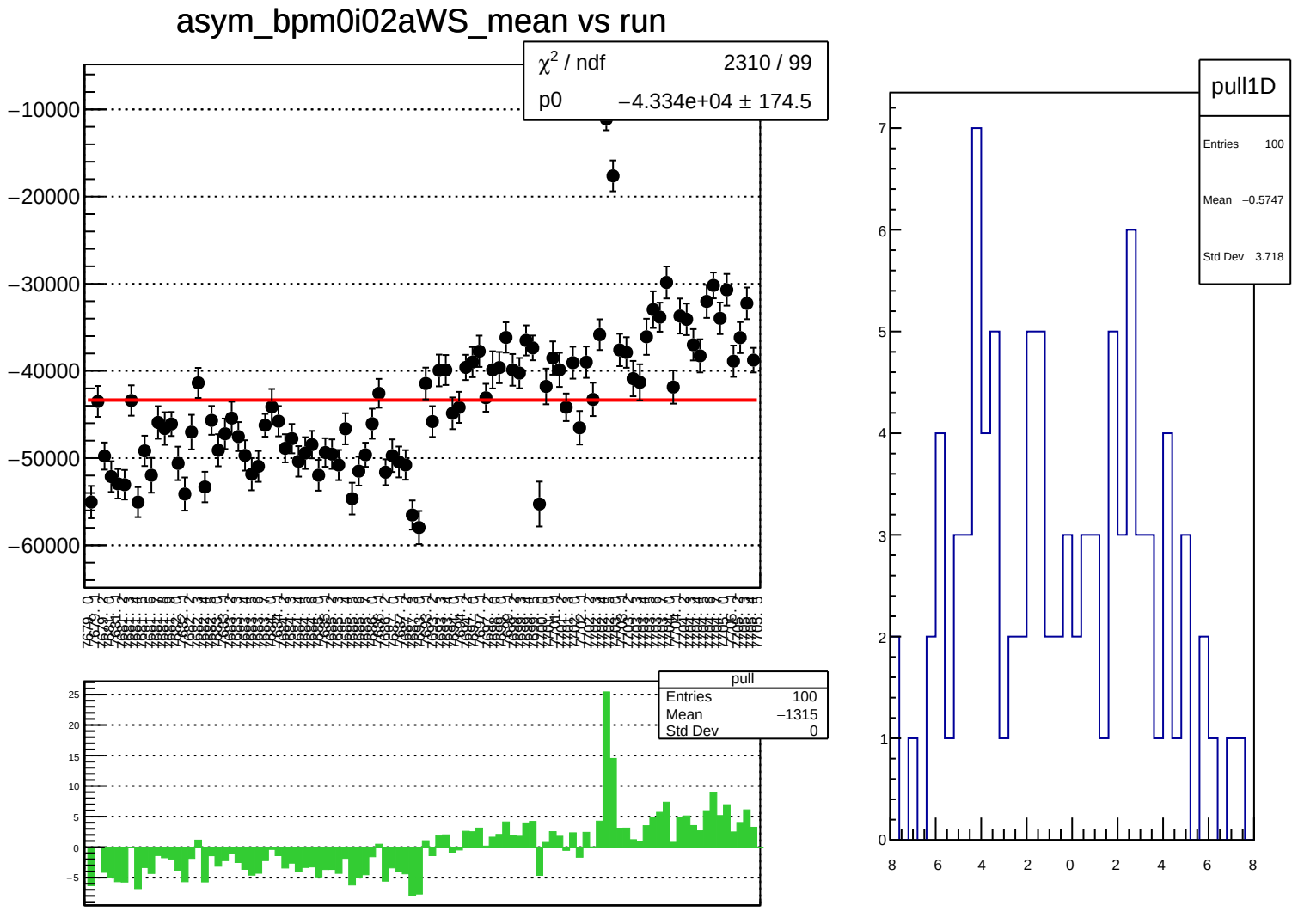

pull1D
Entries 100
Mean 0.1734
Std Dev 2.472

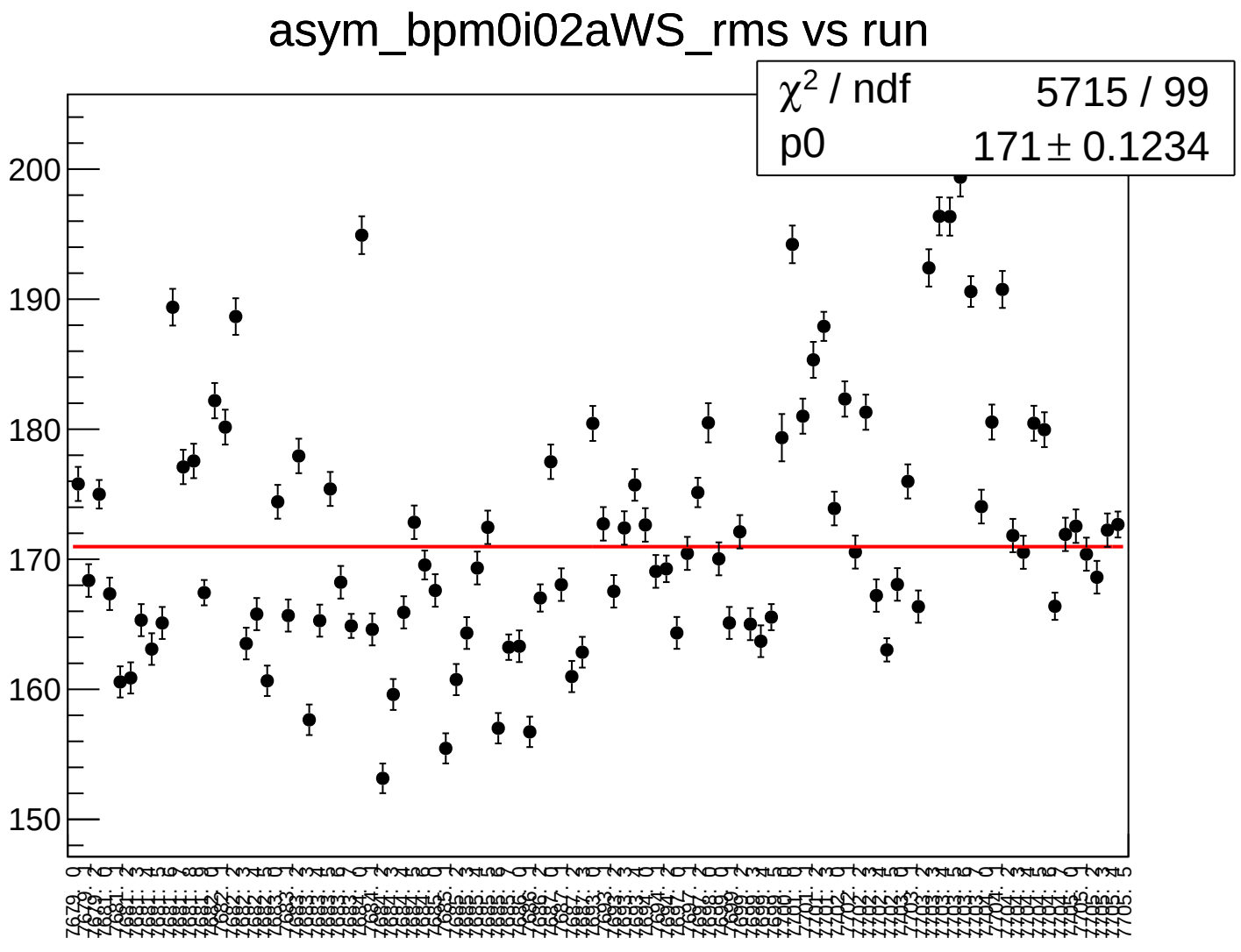

asym_bcm0l02_rms vs run
χ² / ndf 2.878e+04 / 99
p0 238.9 ± 0.1734
300
280
260
240
220
200

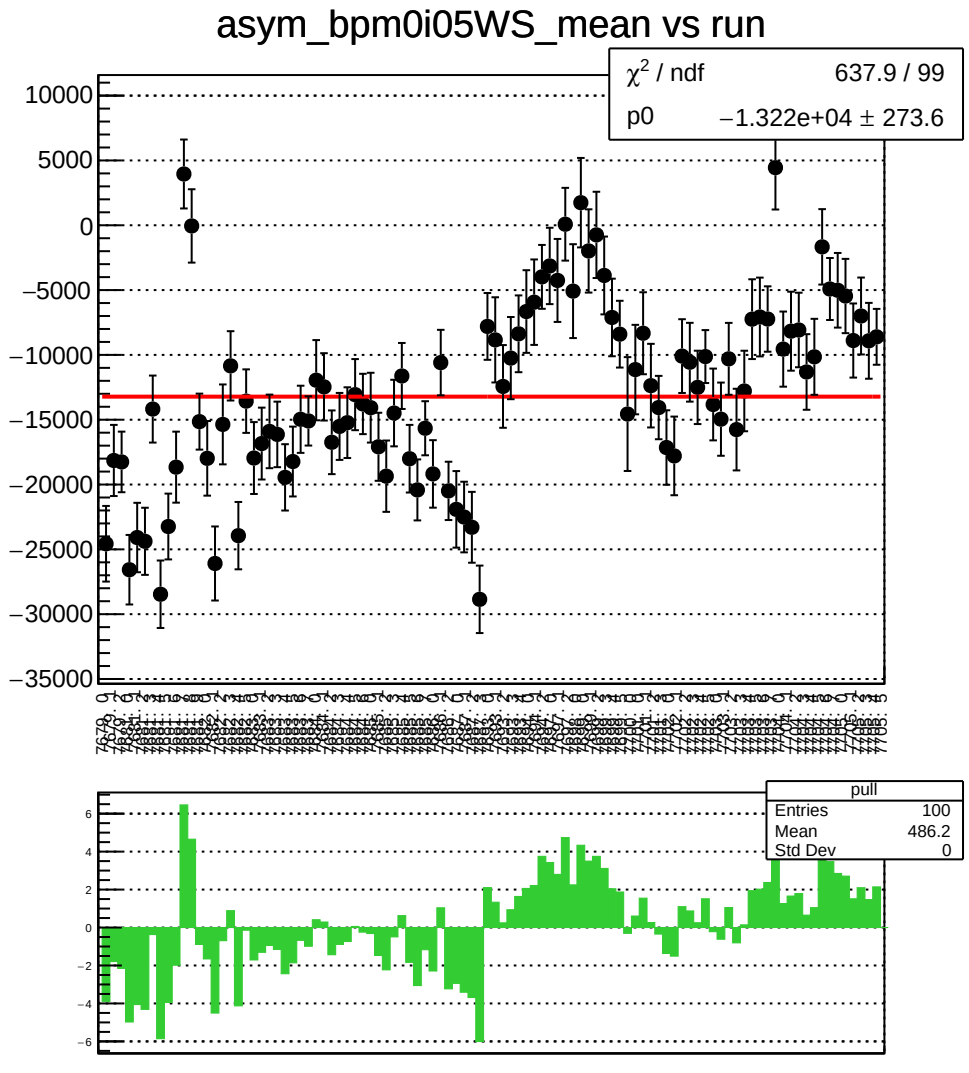

asym_bpm0i02WS_mean vs run
χ² / ndf 3415 / 99
p0 −4.395e+04 ± 179.6
−10000
−20000
−30000
−40000
−50000
−60000
−70000
pull
Entries 100
Mean −397.7
Std Dev 0
20
15
10
5
0
−5
−10

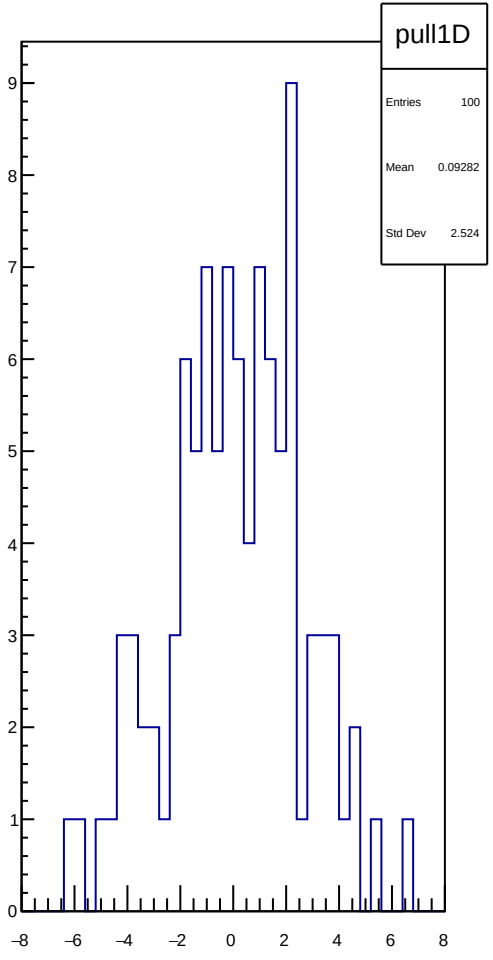

pull1D
Entries 100
Mean −0.6023
Std Dev 4.111
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

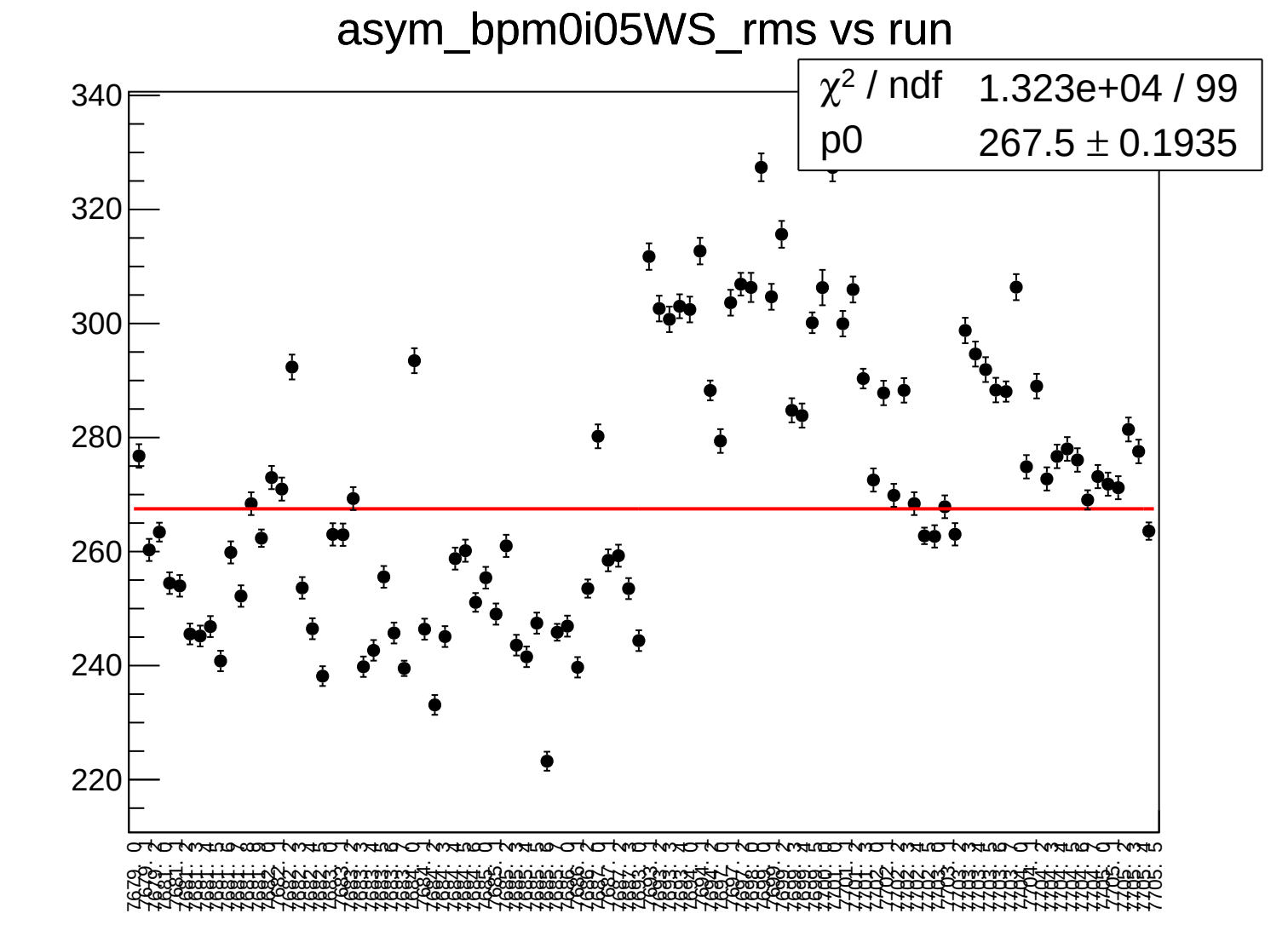

asym_bpm0i02WS_rms vs run
χ² / ndf 1.01e+04 / 99
p0 175.7 ± 0.127
220
210
200
190
180
170
160
150
140

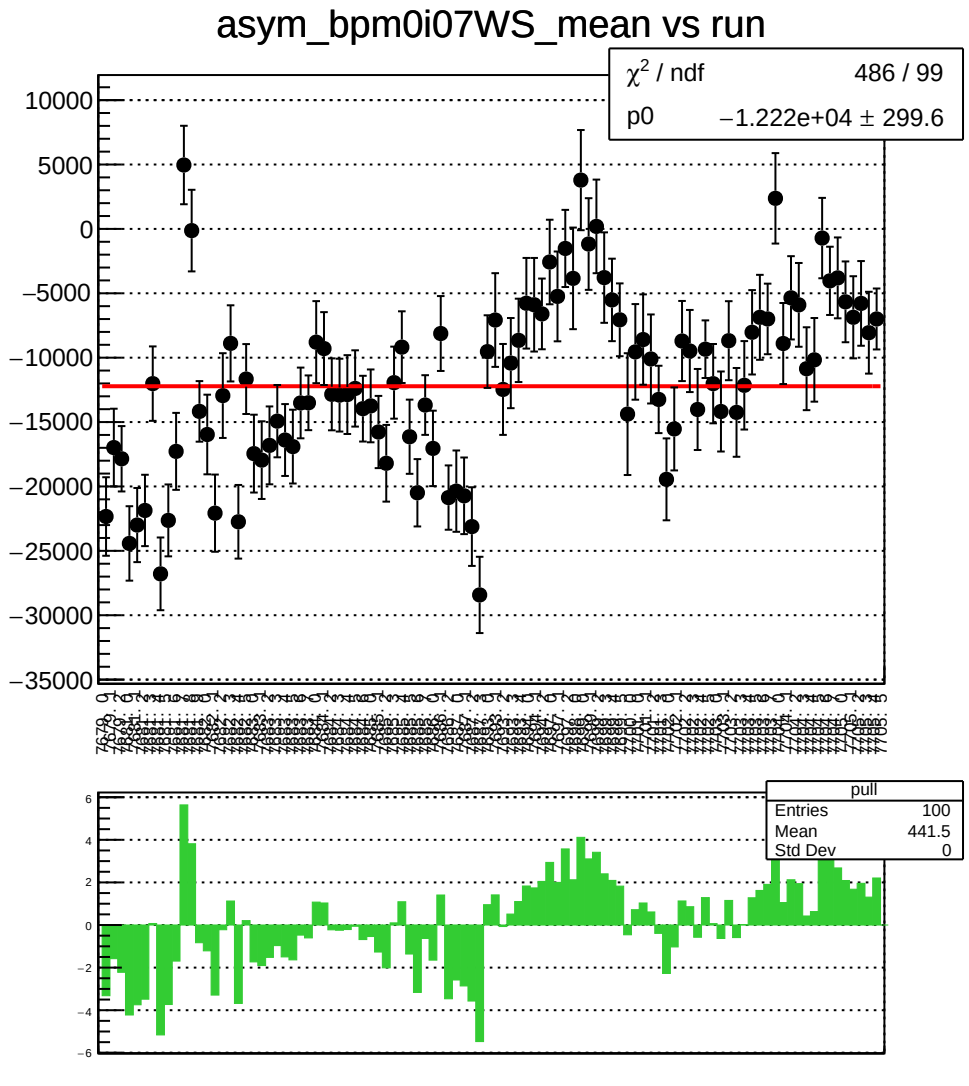

asym_bpm0i02aWS_mean vs run
χ² / ndf 2310 / 99
p0 −4.334e+04 ± 174.5
−10000
−20000
−30000
−40000
−50000
−60000
pull
Entries 100
Mean −1315
Std Dev 0
25
20
15
10
5
0
−5
pull1D
Entries 100
Mean −0.5747
Std Dev 3.718
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

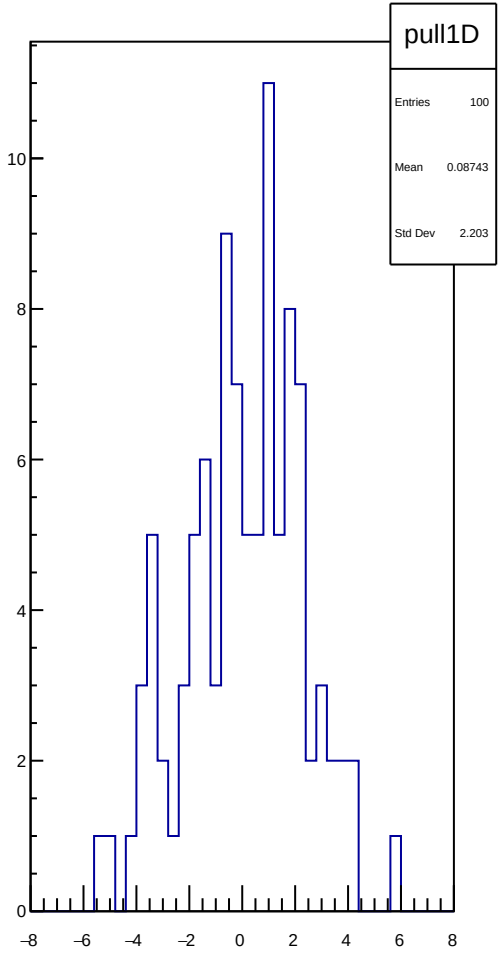

asym_bpm0i02aWS_rms vs run
χ^2 / ndf 5715 / 99
p0 171 ± 0.1234
200
190
180
170
160
150

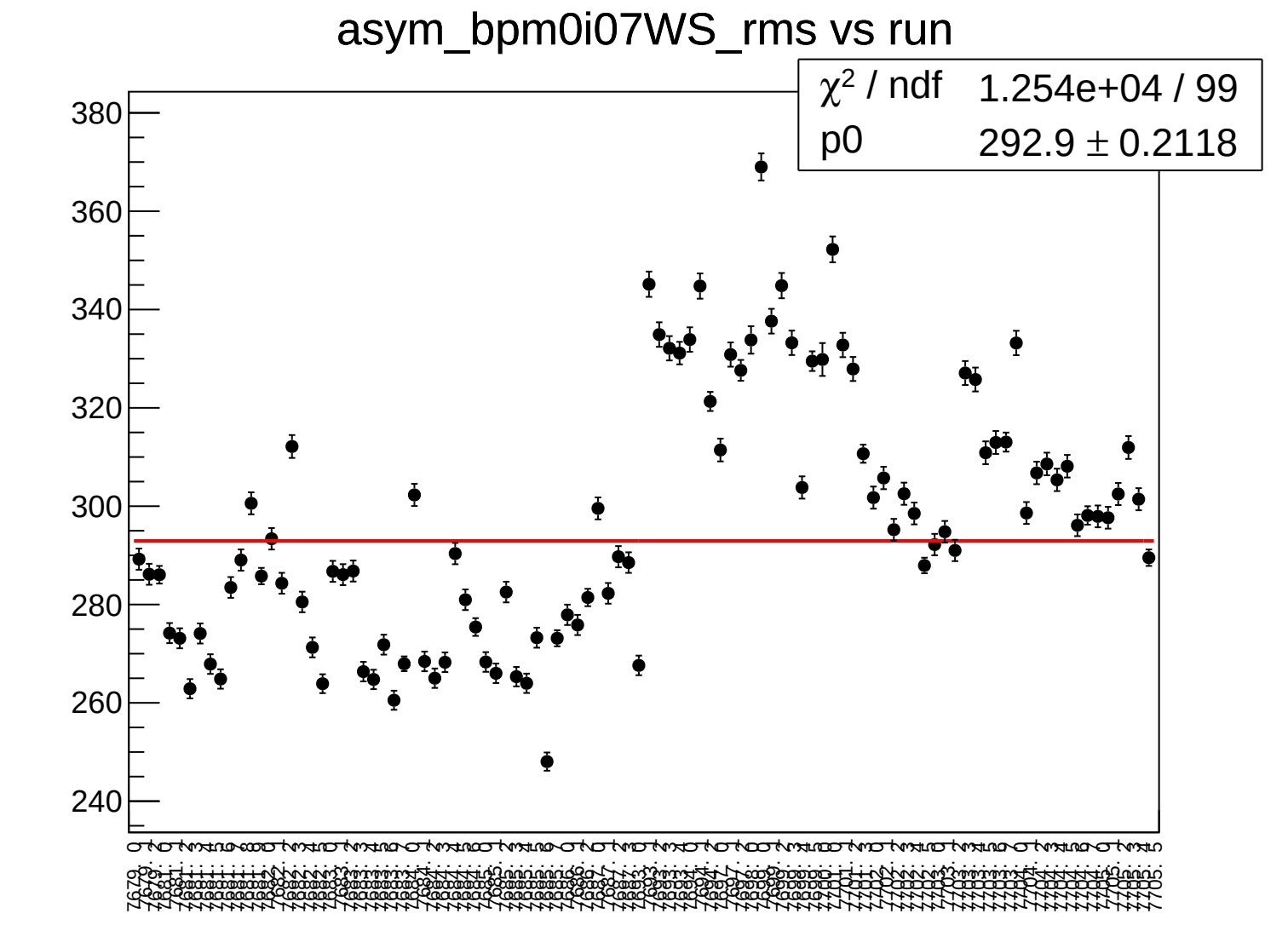

asym_bpm0i05WS_mean vs run
χ² / ndf 637.9 / 99
p0 −1.322e+04 ± 273.6
pull
Entries 100
Mean 486.2
Std Dev 0

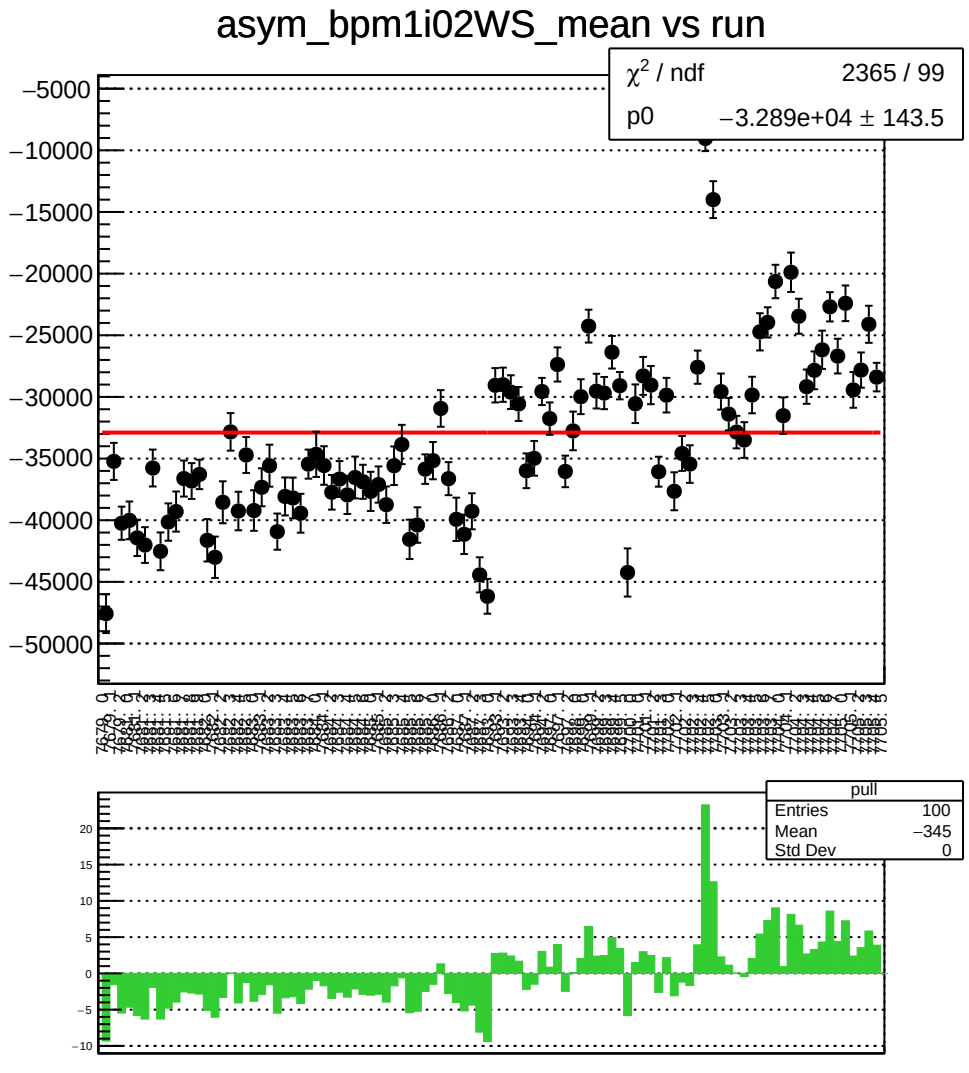

pull1D
Entries 100
Mean 0.09282
Std Dev 2.524

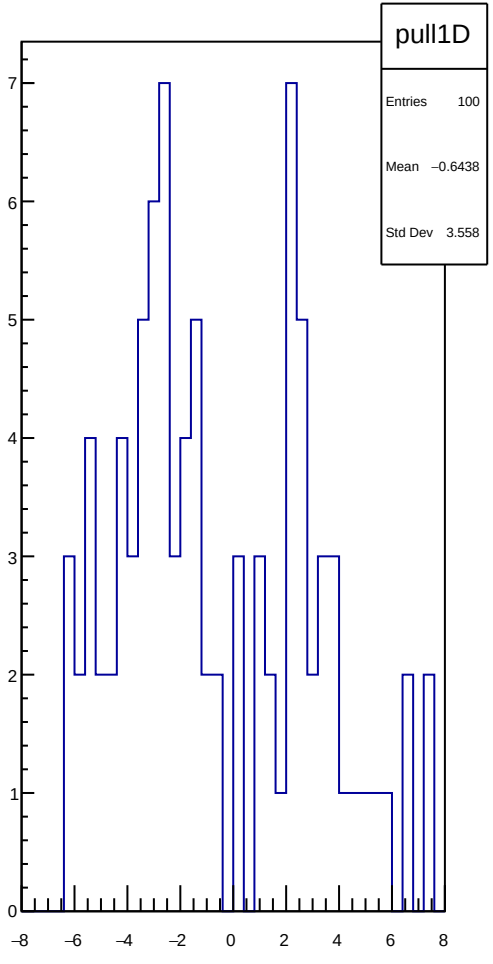

asym_bpm0i05WS_rms vs run
χ² / ndf 1.323e+04 / 99
p0 267.5 ± 0.1935
340
320
300
280
260
240
220

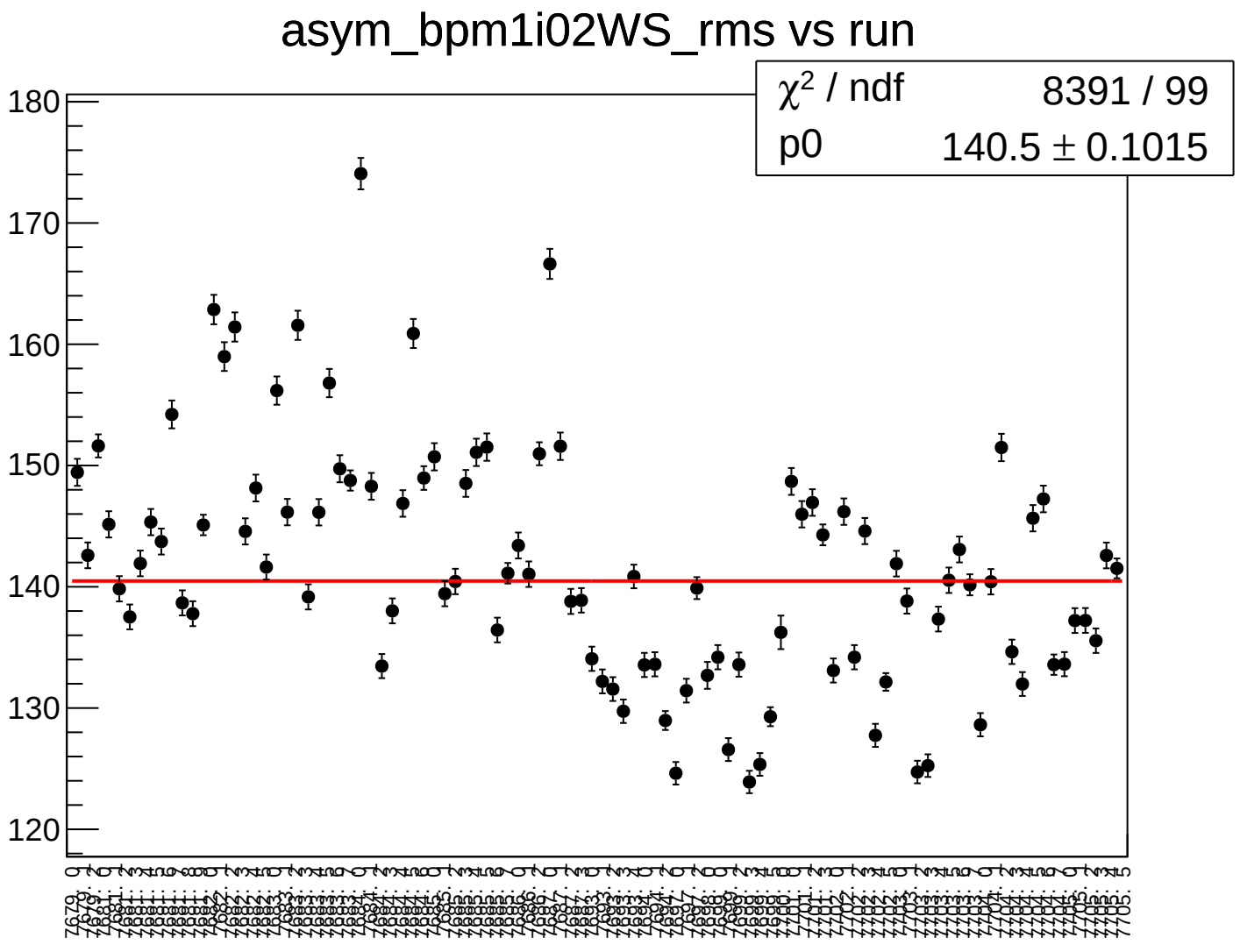

asym_bpm0i07WS_mean vs run
χ² / ndf 486 / 99
p0 −1.222e+04 ± 299.6
pull
Entries 100
Mean 441.5
Std Dev 0

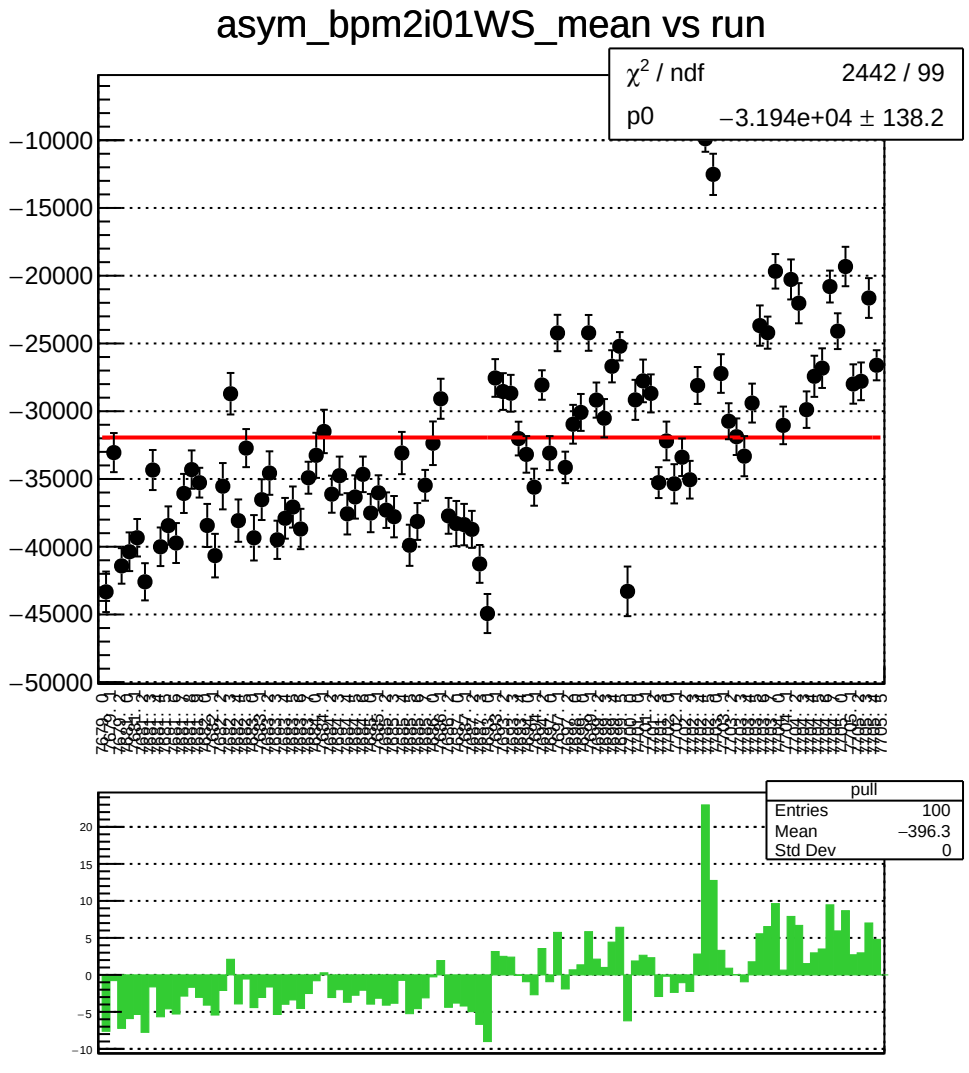

pull1D
Entries 100
Mean 0.08743
Std Dev 2.203

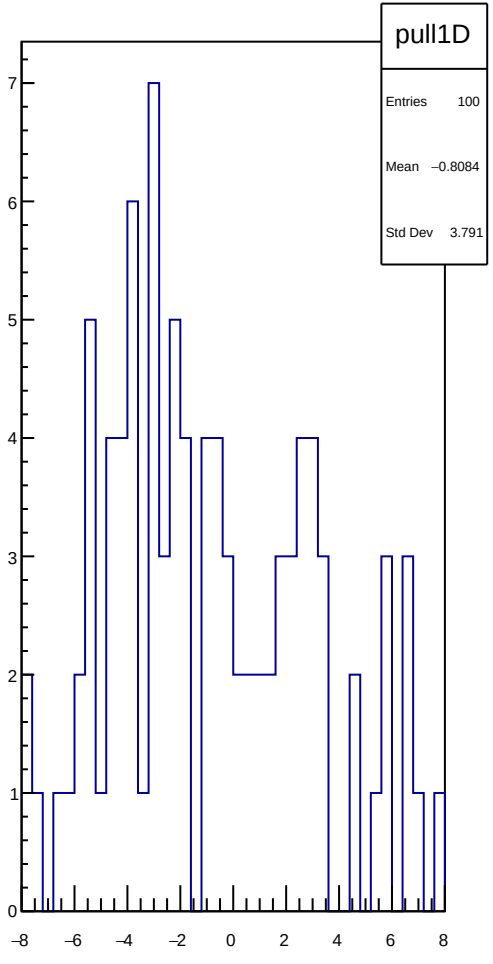

asym_bpm0i07WS_rms vs run
χ² / ndf 1.254e+04 / 99
p0 292.9 ± 0.2118
380
360
340
320
300
280
260
240

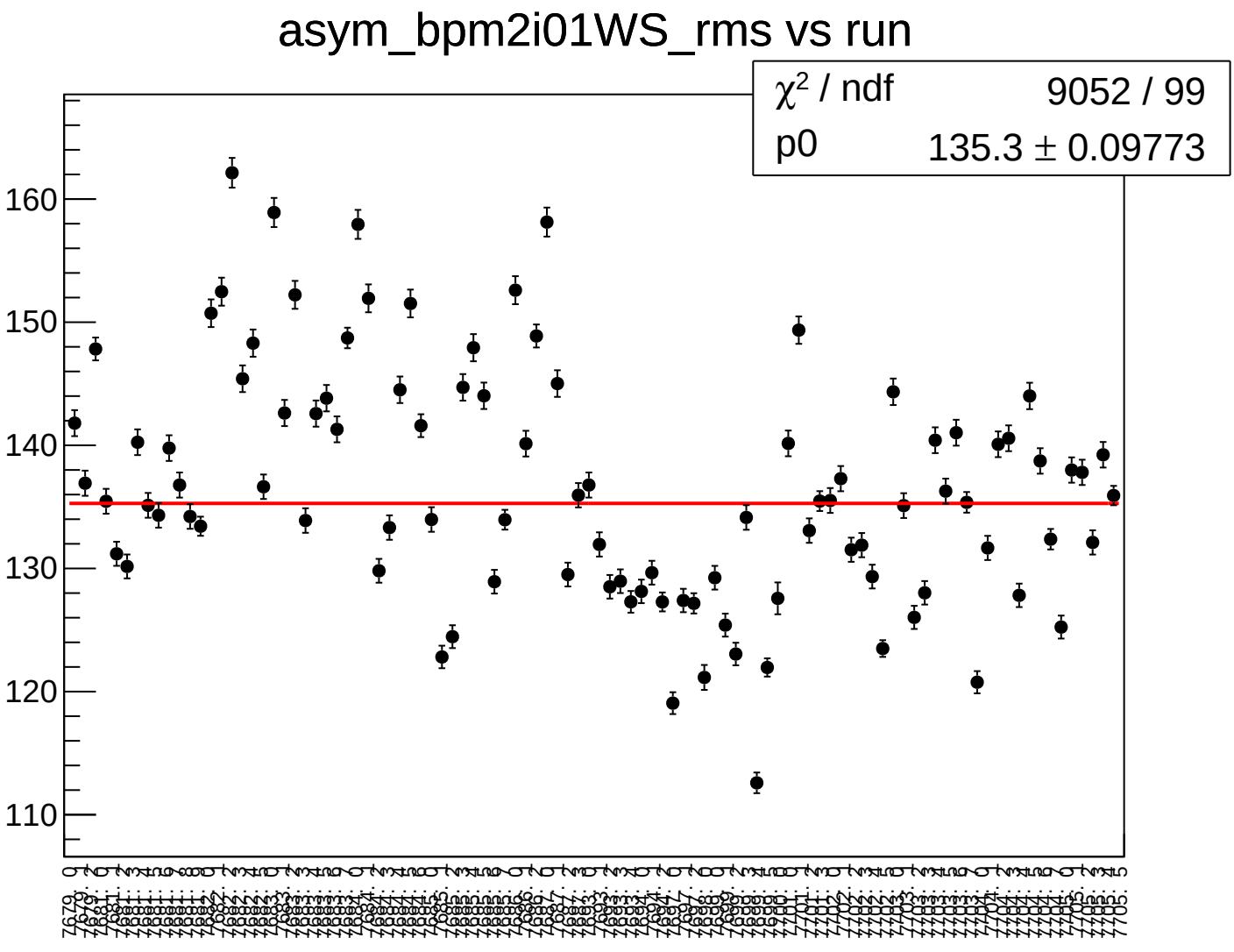

asym_bpm1i02WS_mean vs run
χ² / ndf 2365 / 99
p0 −3.289e+04 ± 143.5
pull
Entries 100
Mean −345
Std Dev 0

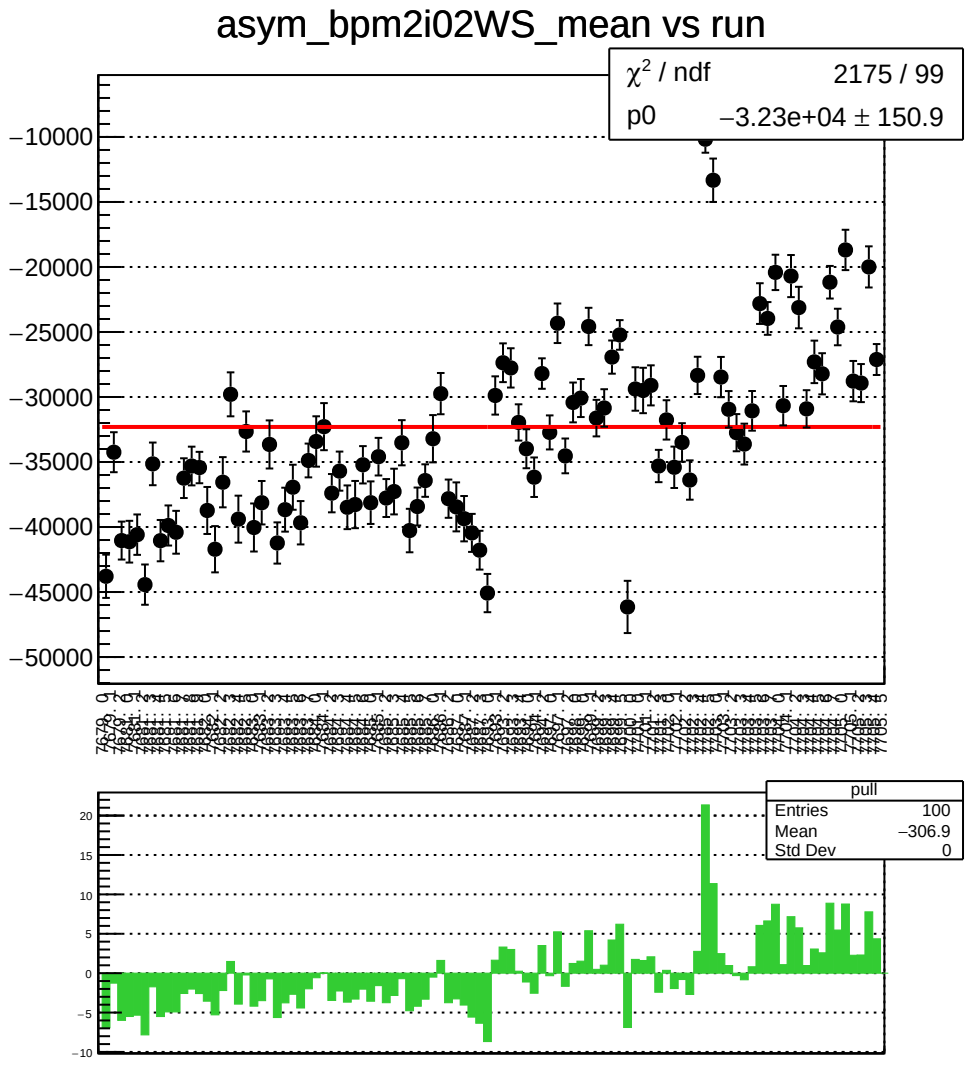

pull1D
Entries 100
Mean −0.6438
Std Dev 3.558

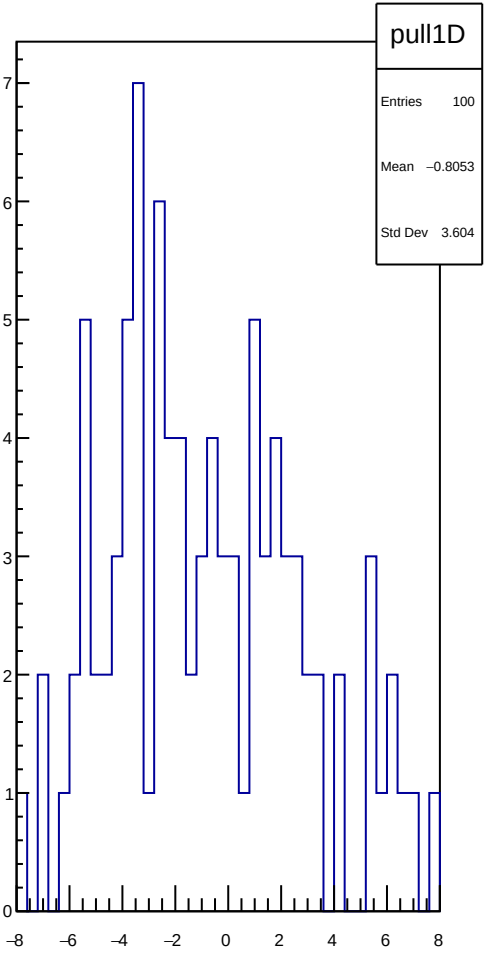

asym_bpm1i02WS_rms vs run
χ^2 / ndf 8391 / 99
p0 140.5 ± 0.1015
180
170
160
150
140
130
120

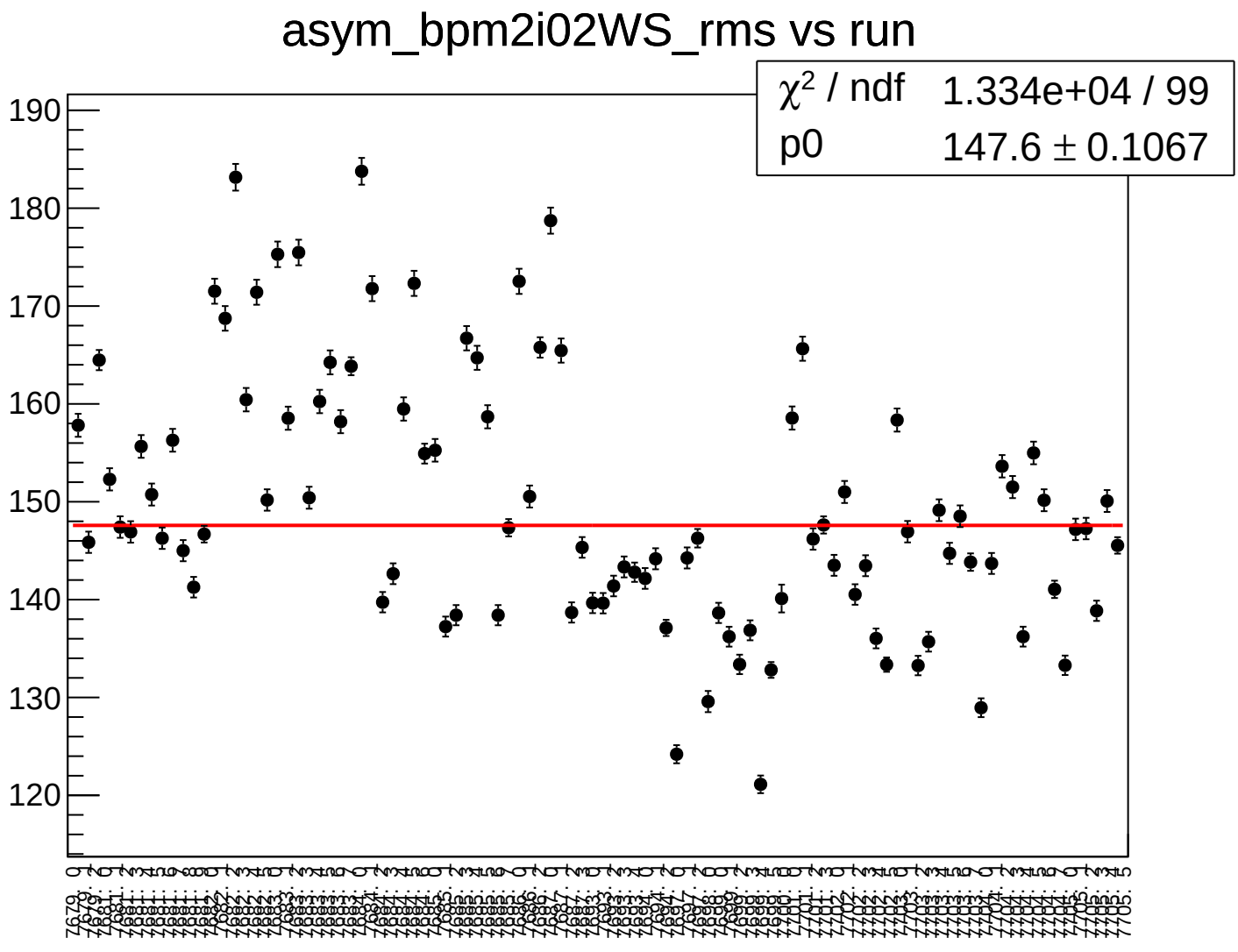

asym_bpm2i01WS_mean vs run
χ² / ndf 2442 / 99
p0 −3.194e+04 ± 138.2
pull
Entries 100
Mean −396.3
Std Dev 0

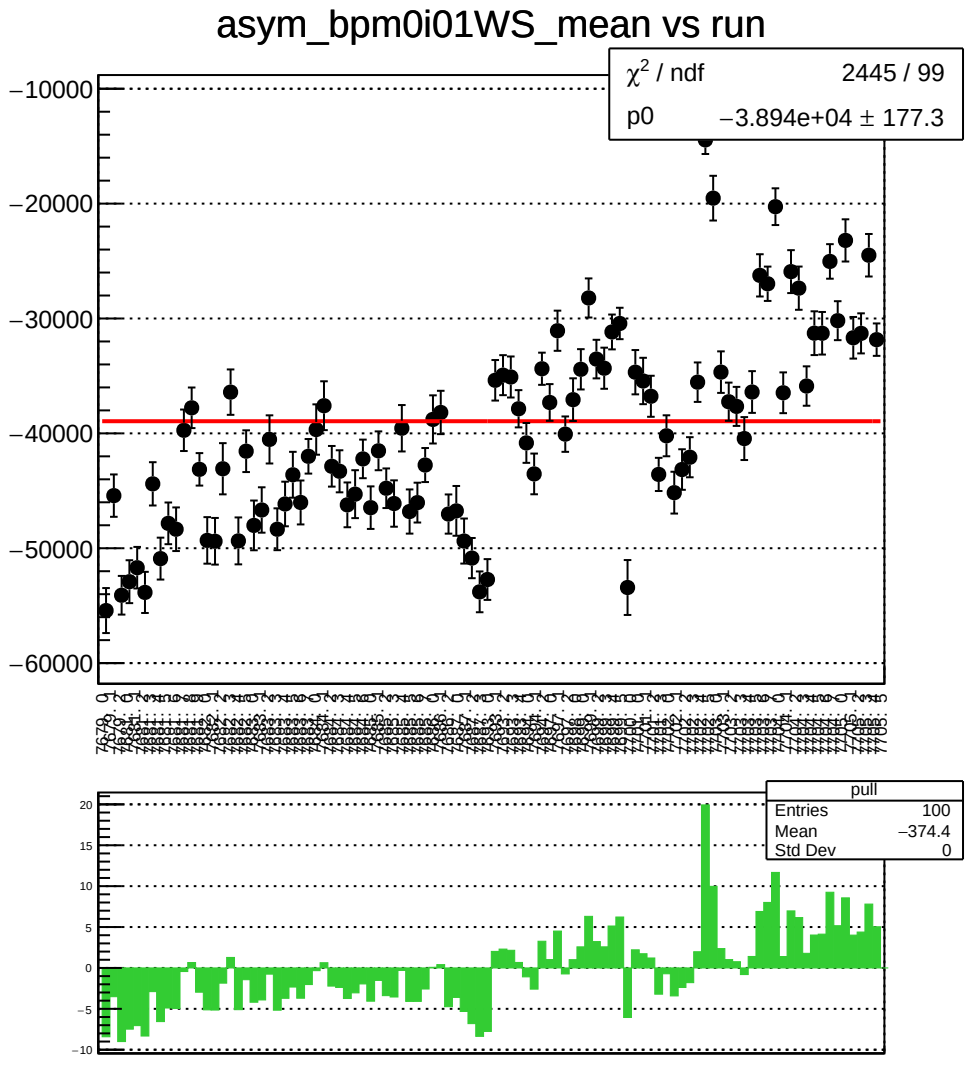

pull1D
Entries 100
Mean −0.8084
Std Dev 3.791

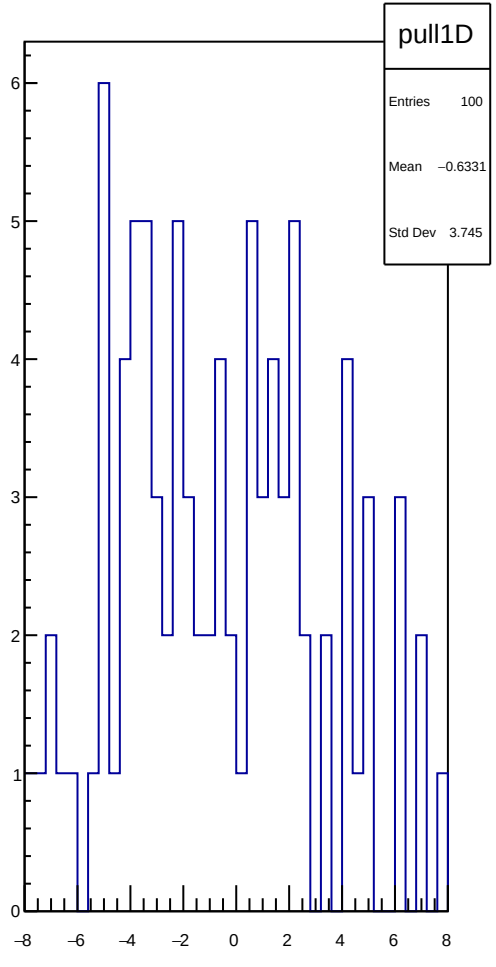

asym_bpm2i01WS_rms vs run
χ^2 / ndf 9052 / 99
p0 135.3 ± 0.09773
160
150
140
130
120
110

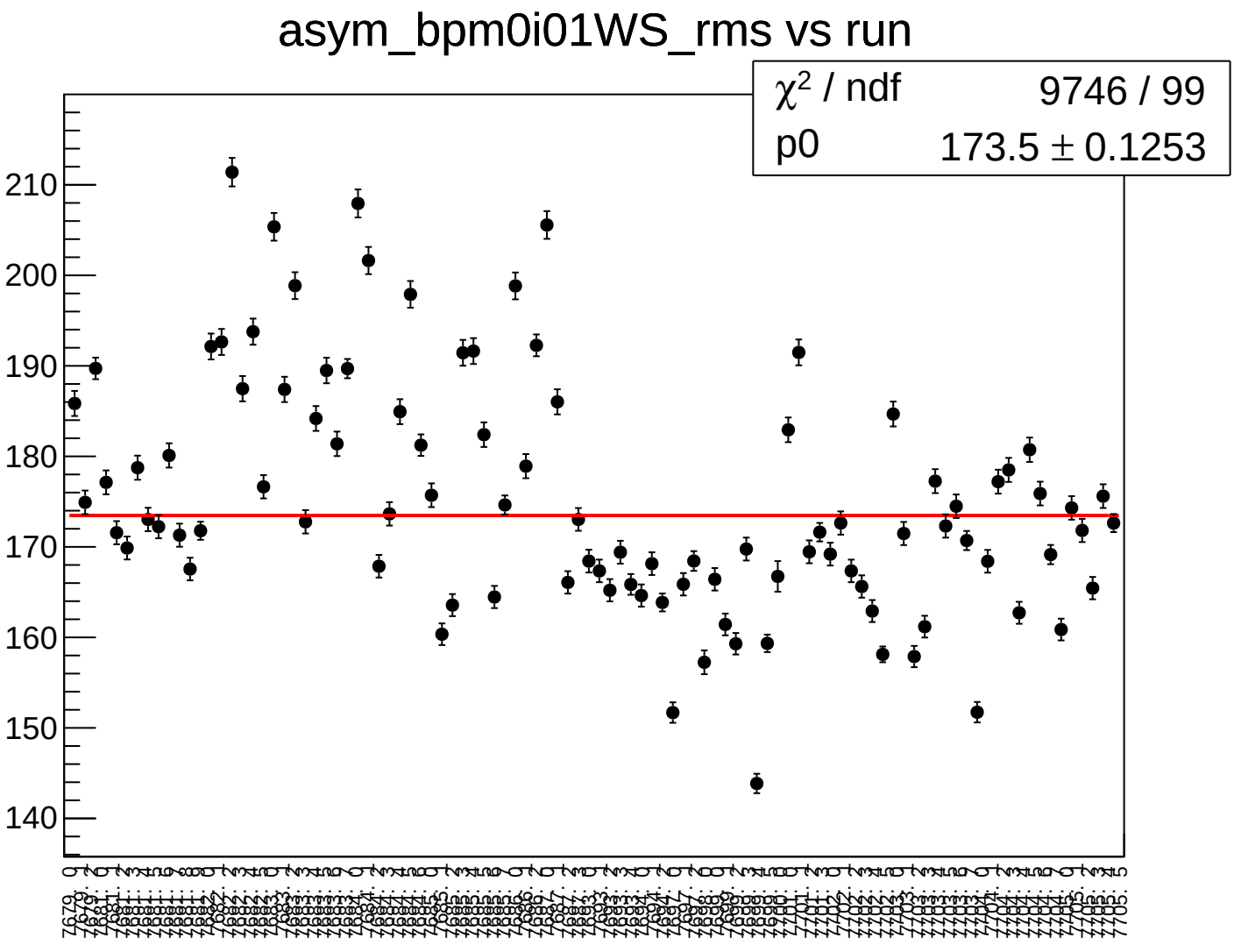

asym_bpm2i02WS_mean vs run
χ² / ndf 2175 / 99
p0 −3.23e+04 ± 150.9
−10000
−15000
−20000
−25000
−30000
−35000
−40000
−45000
−50000
pull
Entries 100
Mean −306.9
Std Dev 0
20
15
10
5
0
−5
−10

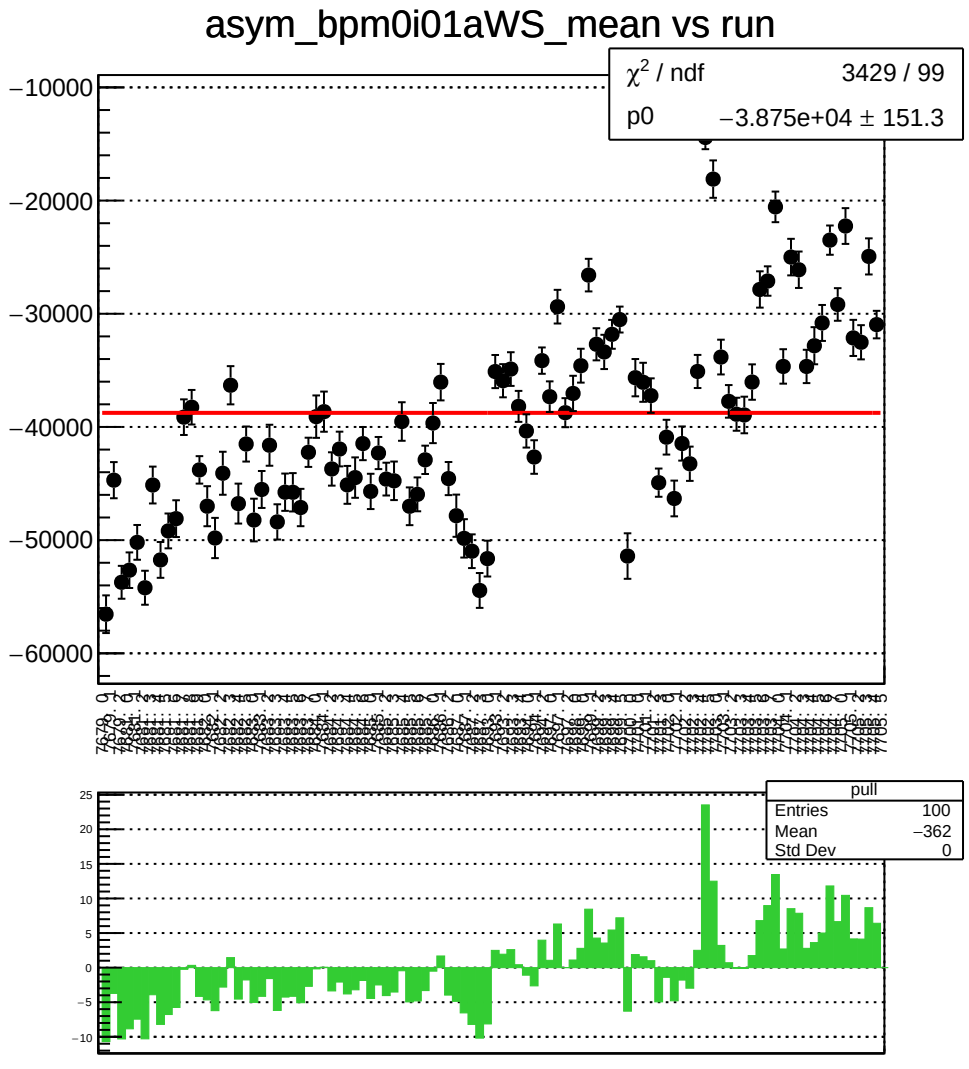

pull1D
Entries 100
Mean −0.8053
Std Dev 3.604
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

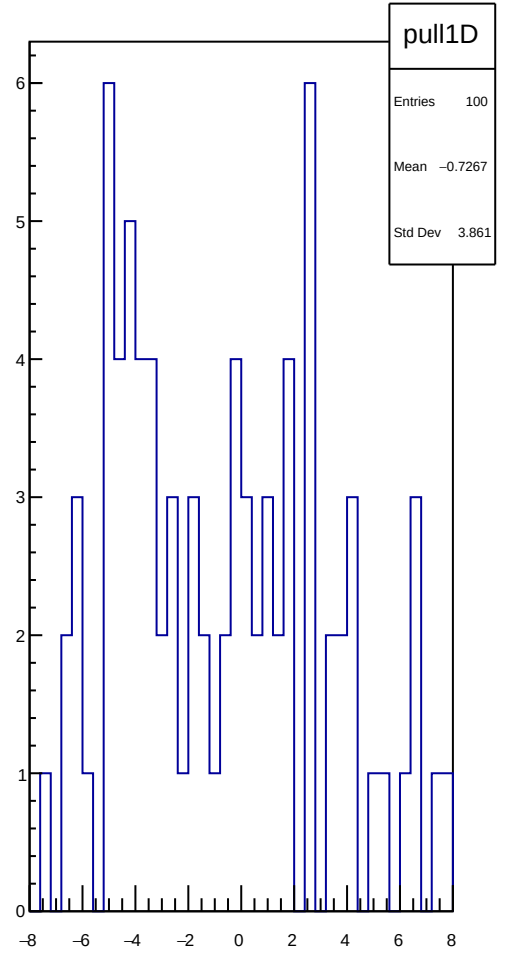

asym_bpm2i02WS_rms vs run
χ² / ndf 1.334e+04 / 99
p0 147.6 ± 0.1067
190
180
170
160
150
140
130
120

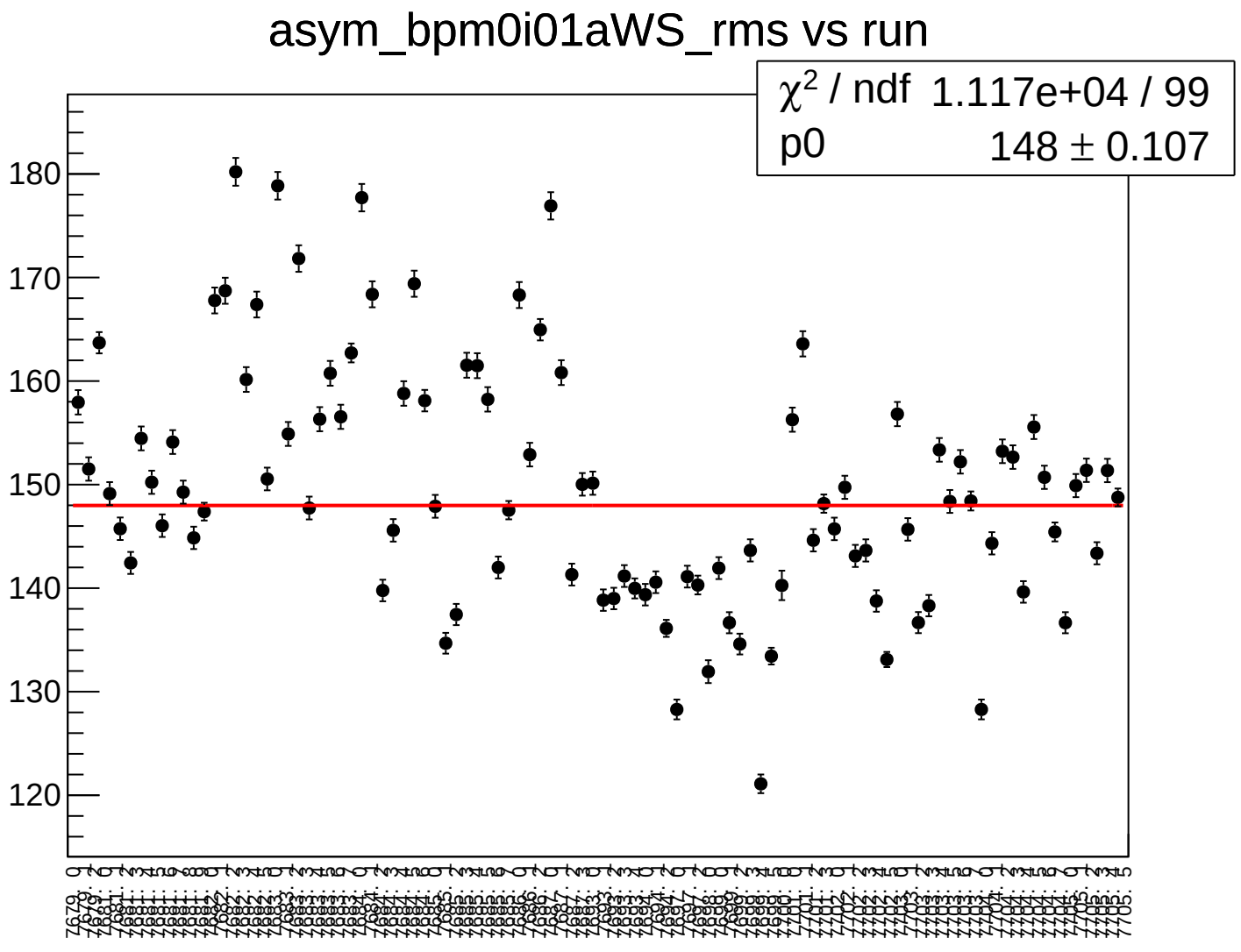

asym_bpm0i01WS_mean vs run
χ² / ndf 2445 / 99
p0 −3.894e+04 ± 177.3
−10000
−20000
−30000
−40000
−50000
−60000
pull
Entries 100
Mean −374.4
Std Dev 0
20
15
10
5
0
−5
−10

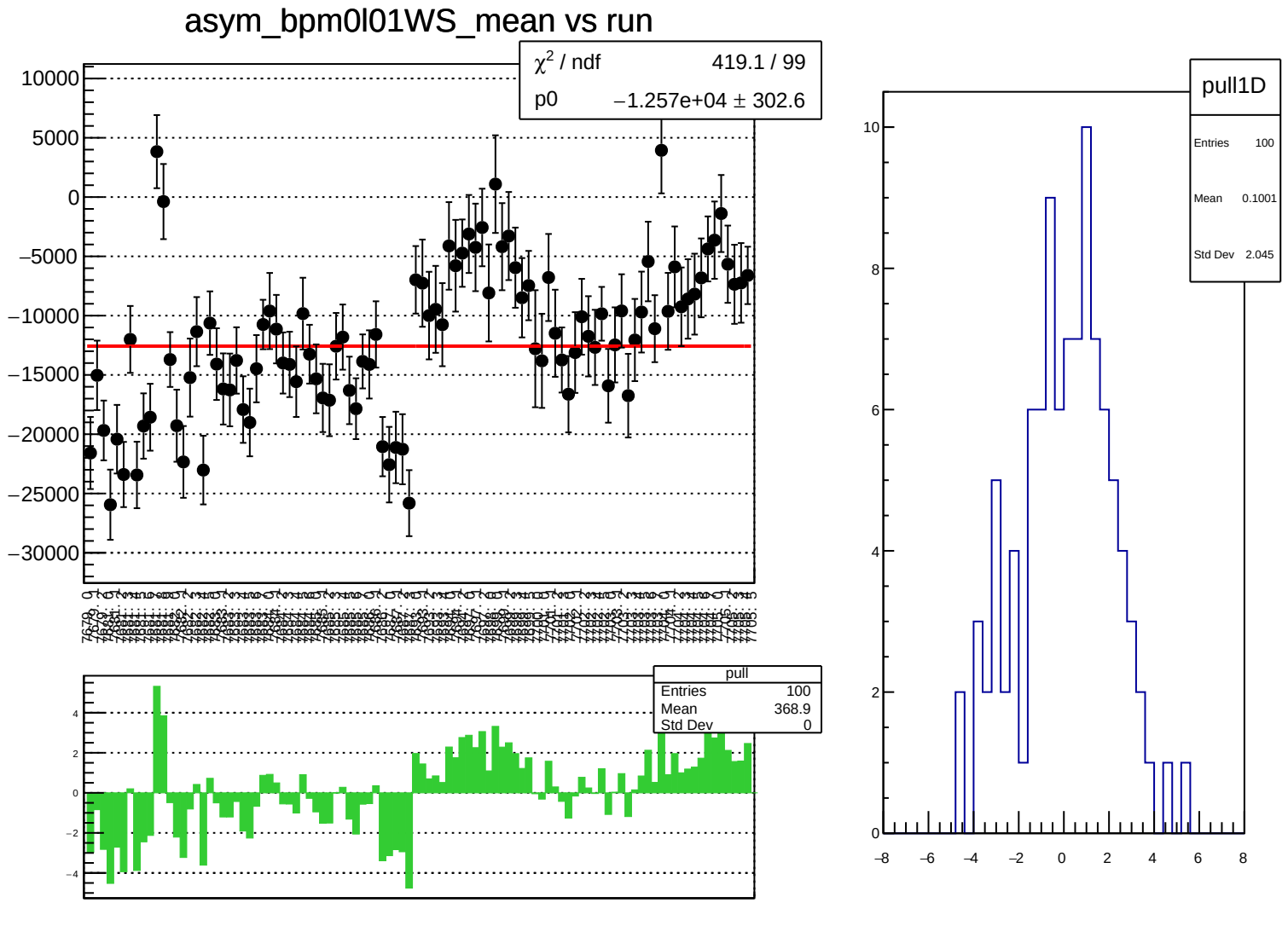

pull1D
Entries 100
Mean −0.6331
Std Dev 3.745
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

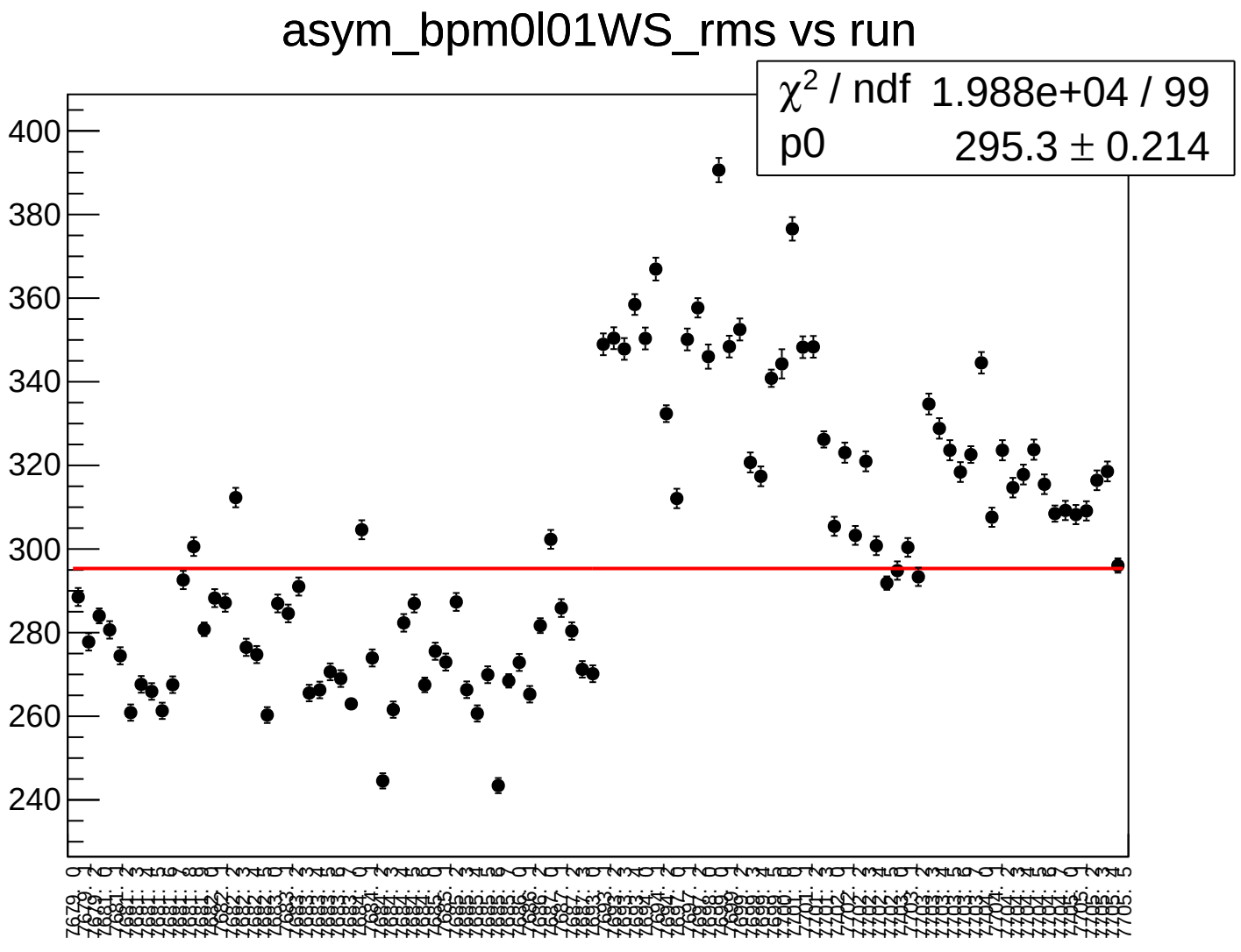

asym_bpm0i01WS_rms vs run
χ² / ndf 9746 / 99
p0 173.5 ± 0.1253
210
200
190
180
170
160
150
140

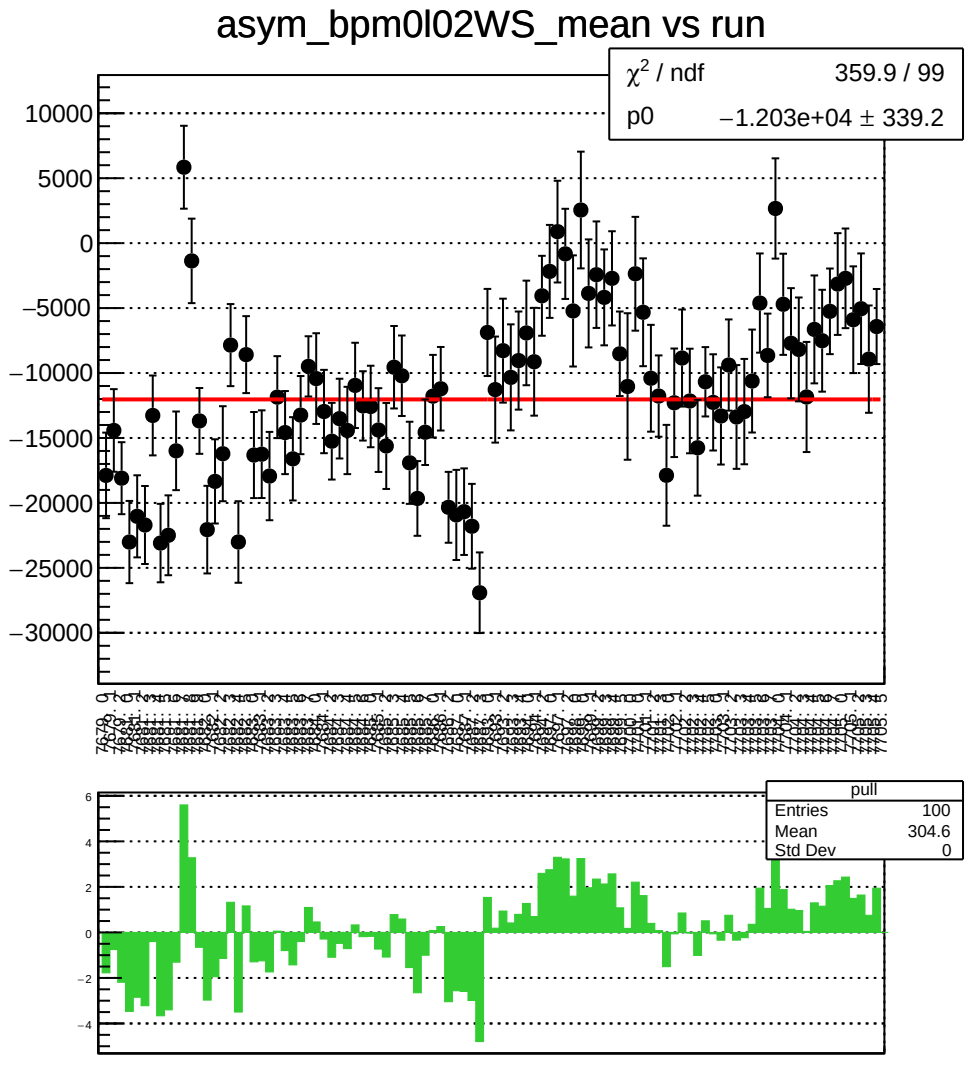

asym_bpm0i01aWS_mean vs run
χ² / ndf 3429 / 99
p0 −3.875e+04 ± 151.3
−10000
−20000
−30000
−40000
−50000
−60000
pull
Entries 100
Mean −362
Std Dev 0
25
20
15
10
5
0
−5
−10

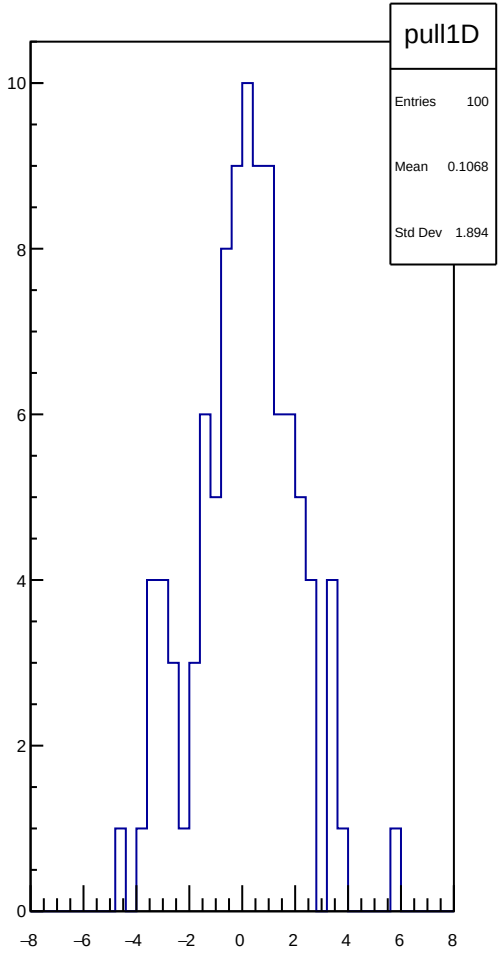

pull1D
Entries 100
Mean −0.7267
Std Dev 3.861
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

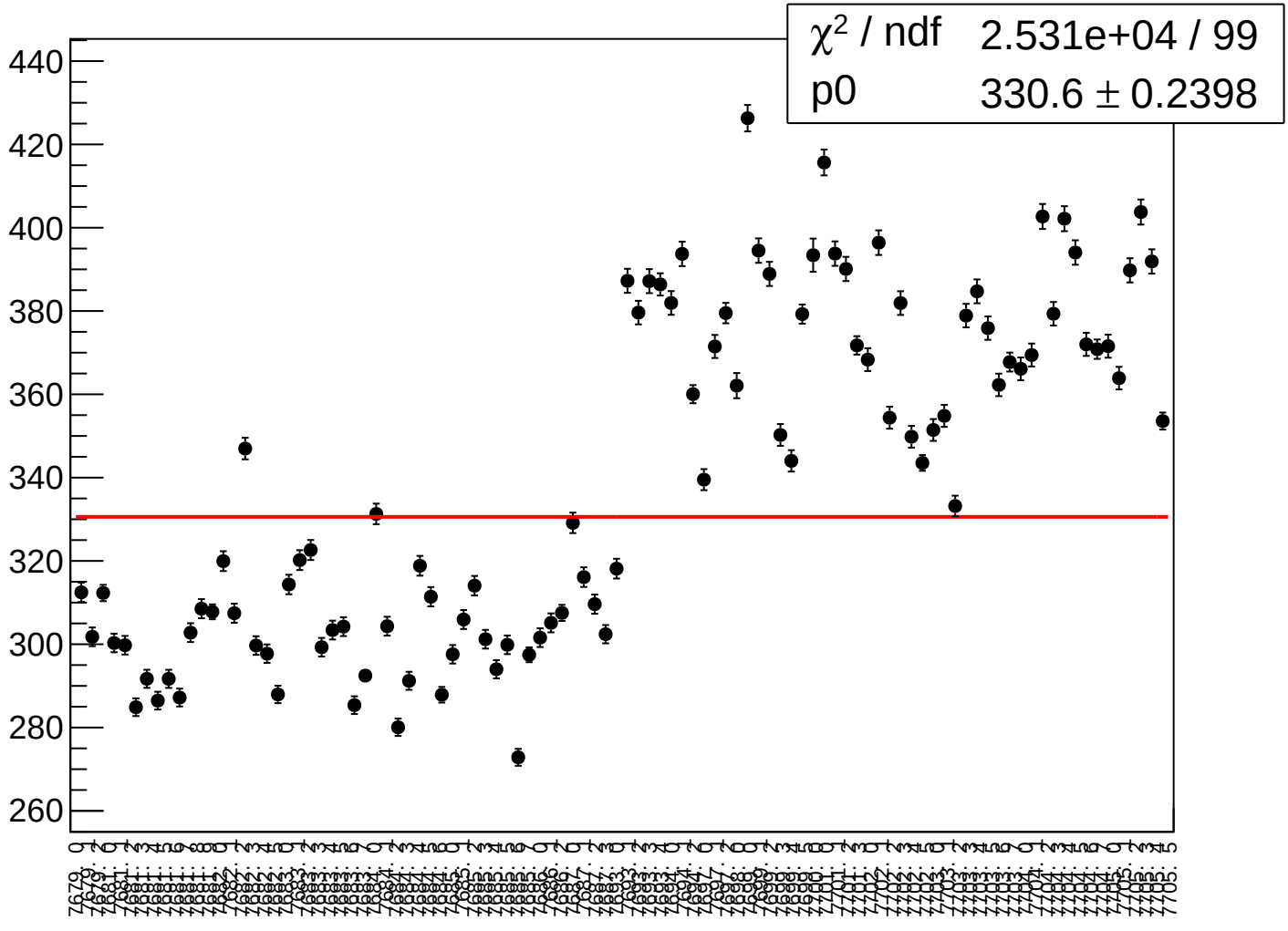

asym_bpm0i01aWS_rms vs run
χ² / ndf 1.117e+04 / 99
p0 148 ± 0.107
180
170
160
150
140
130
120

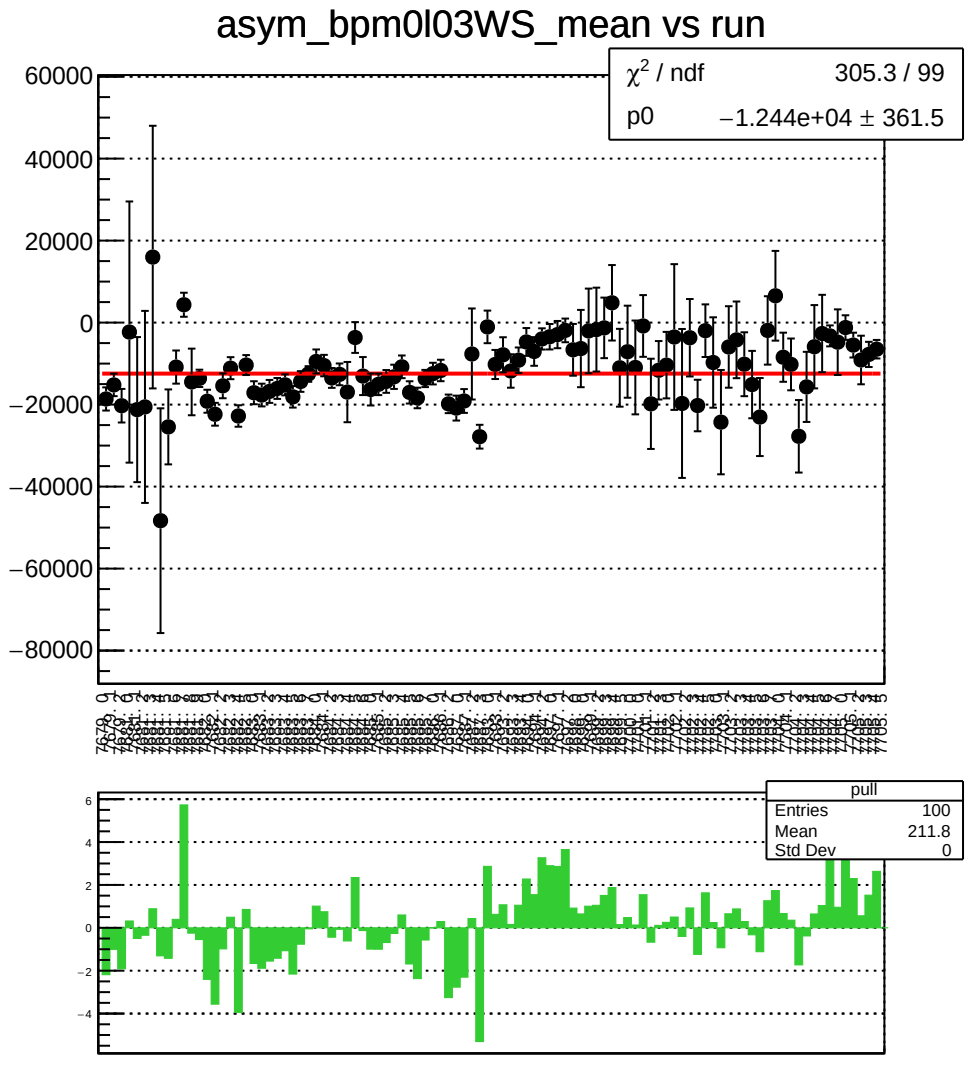

asym_bpm0l01WS_mean vs run
χ² / ndf 419.1 / 99
p0 −1.257e+04 ± 302.6
pull
Entries 100
Mean 368.9
Std Dev 0
pull1D
Entries 100
Mean 0.1001
Std Dev 2.045

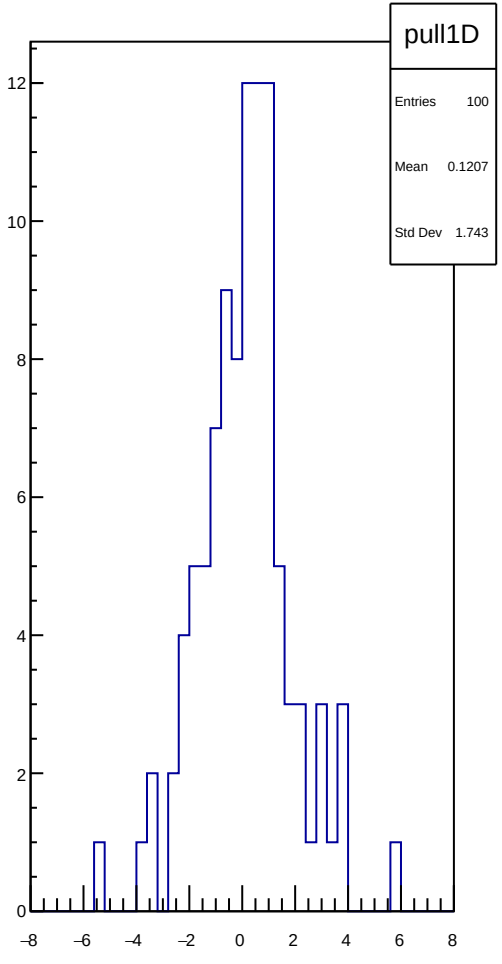

asym_bpm0l01WS_rms vs run
χ² / ndf 1.988e+04 / 99
p0 295.3 ± 0.214
400
380
360
340
320
300
280
260
240

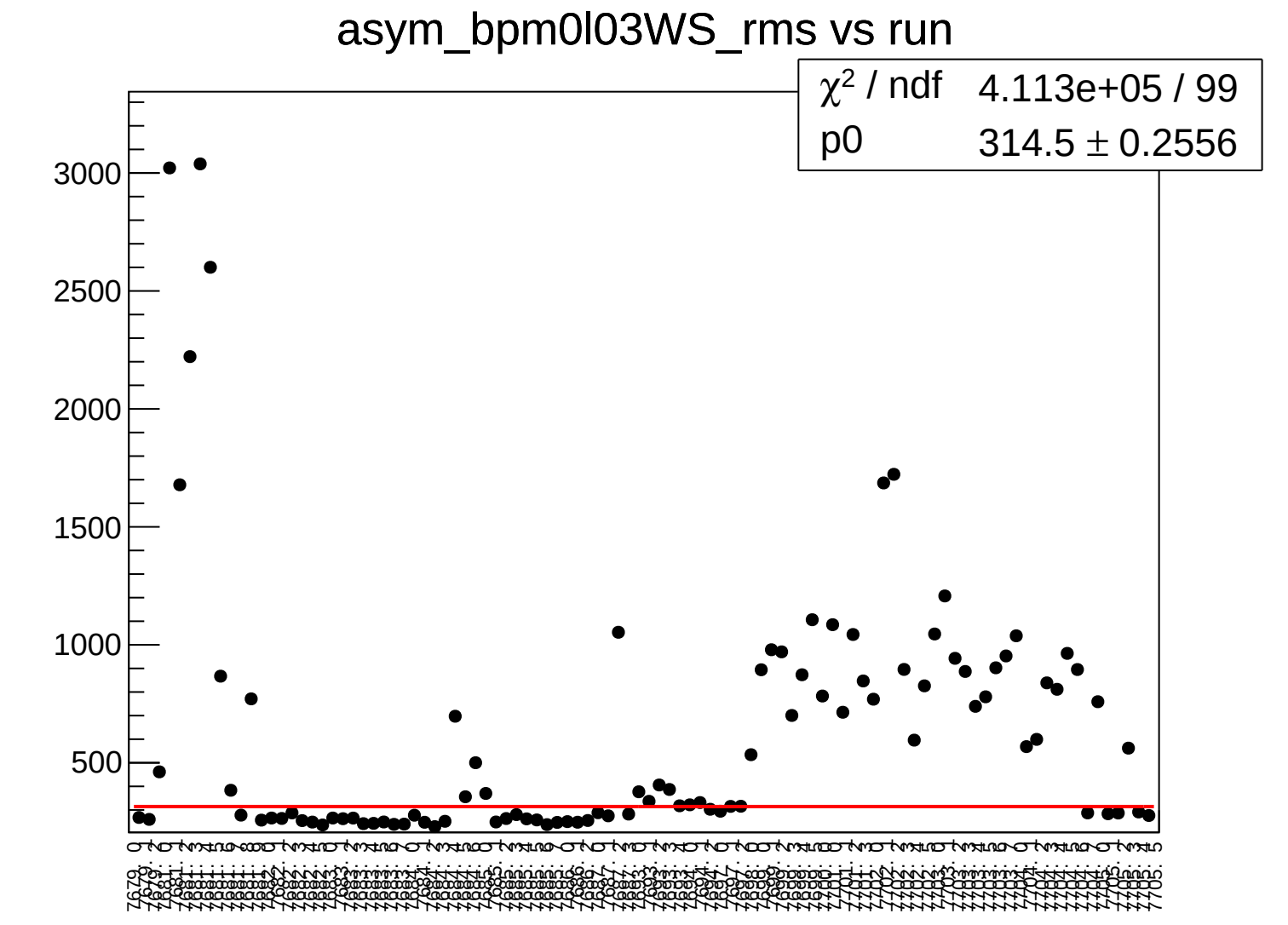

asym_bpm0l02WS_mean vs run
χ² / ndf 359.9 / 99
p0 −1.203e+04 ± 339.2
pull
Entries 100
Mean 304.6
Std Dev 0

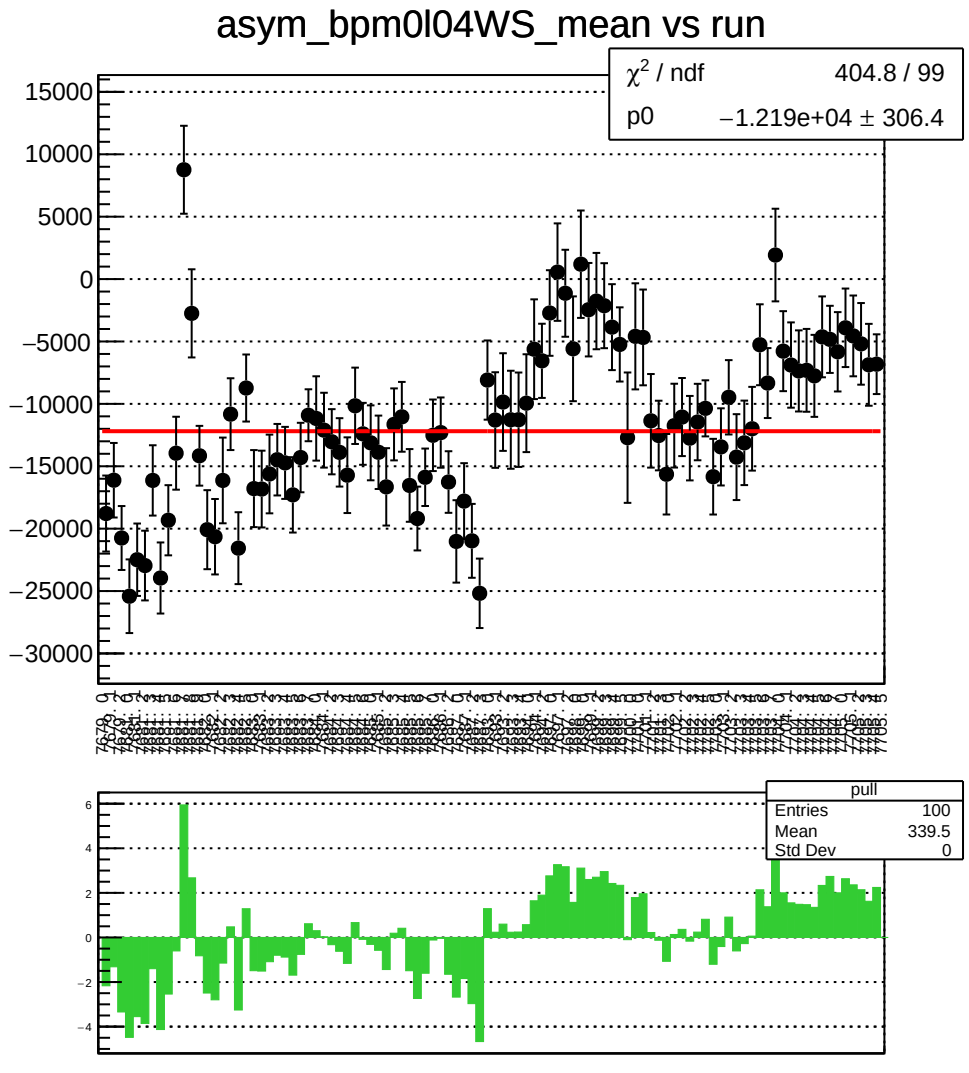

pull1D
Entries 100
Mean 0.1068
Std Dev 1.894

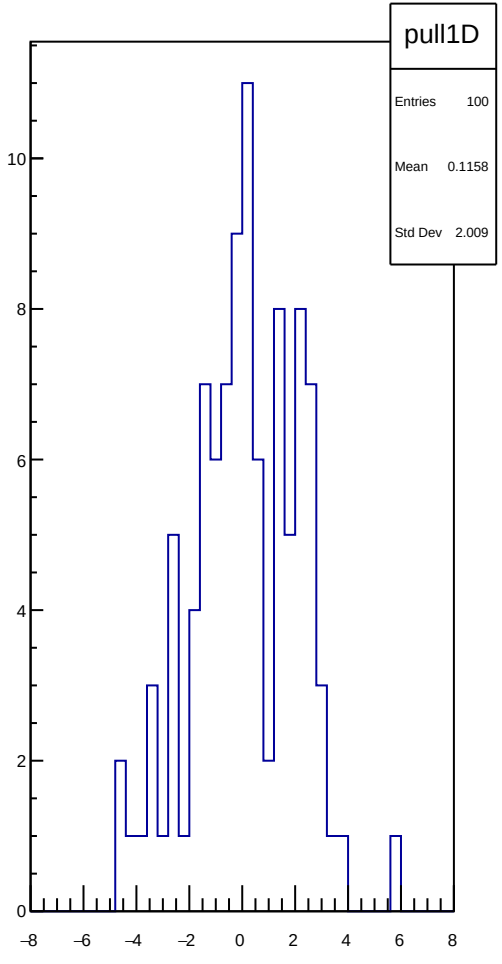

asym_bpm0l02WS_rms vs run
χ^2 / ndf 2.531e+04 / 99
p0 330.6 ± 0.2398
440
420
400
380
360
340
320
300
280
260

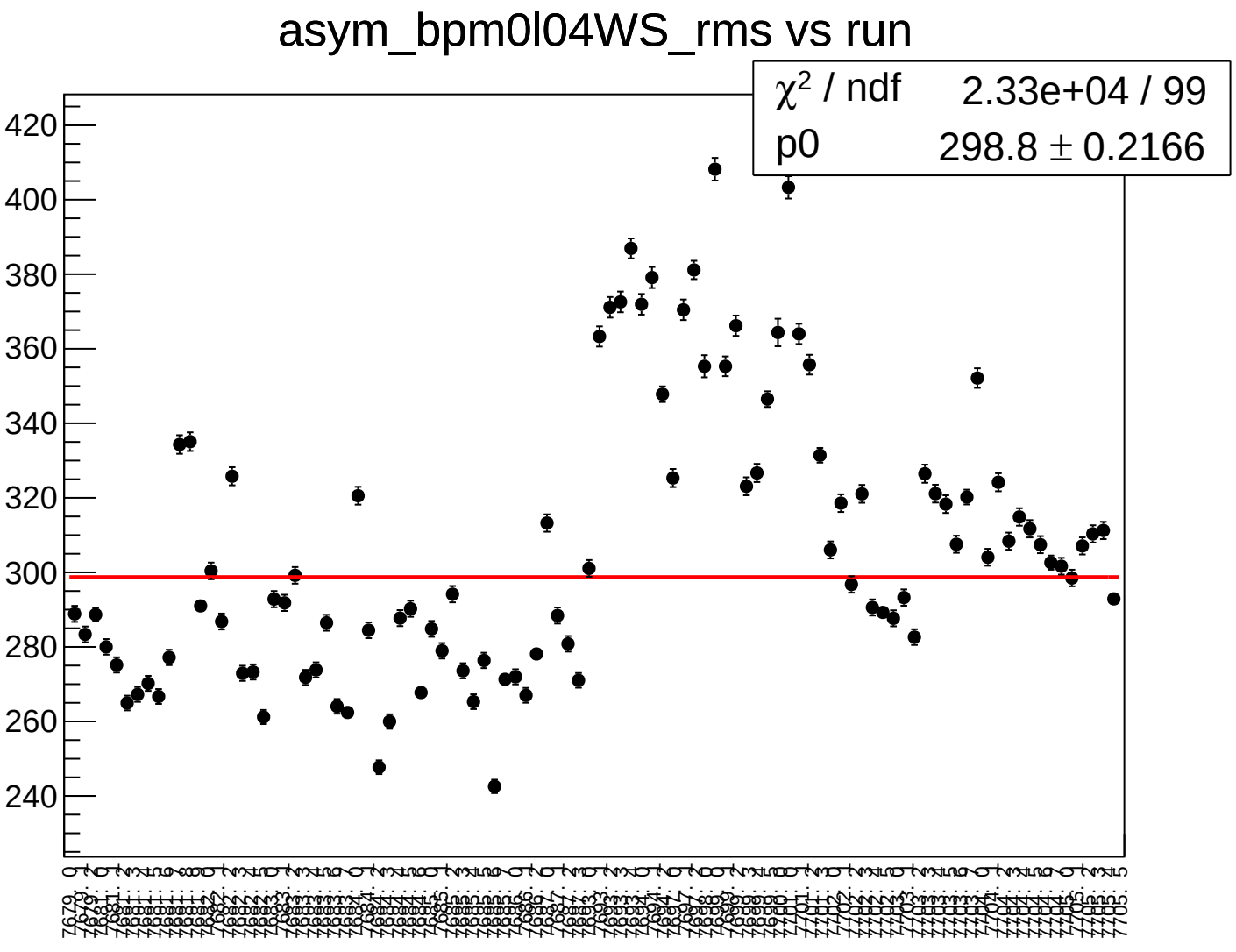

asym_bpm0l03WS_mean vs run
χ² / ndf 305.3 / 99
p0 −1.244e+04 ± 361.5
pull
Entries 100
Mean 211.8
Std Dev 0

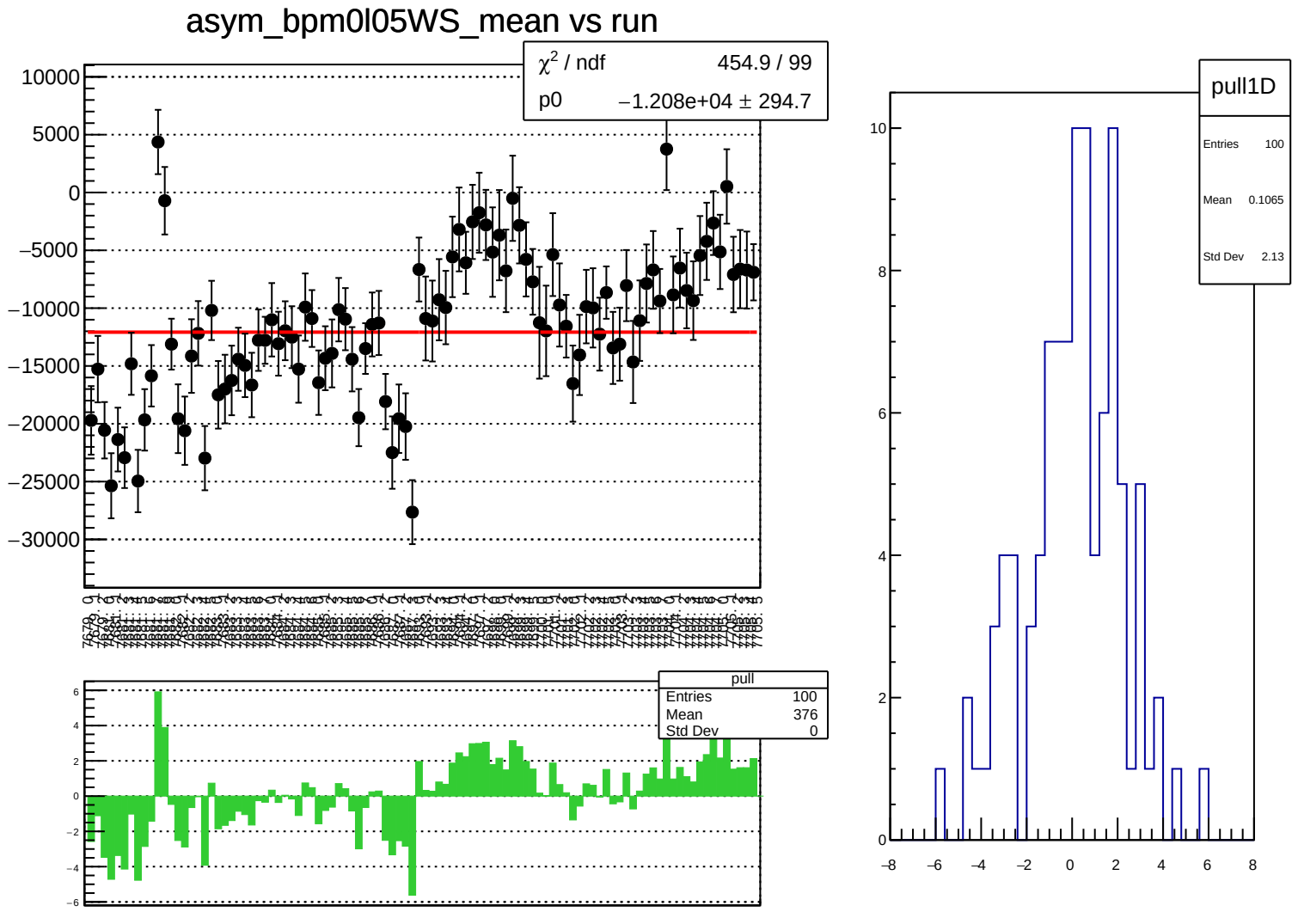

pull1D
Entries 100
Mean 0.1207
Std Dev 1.743

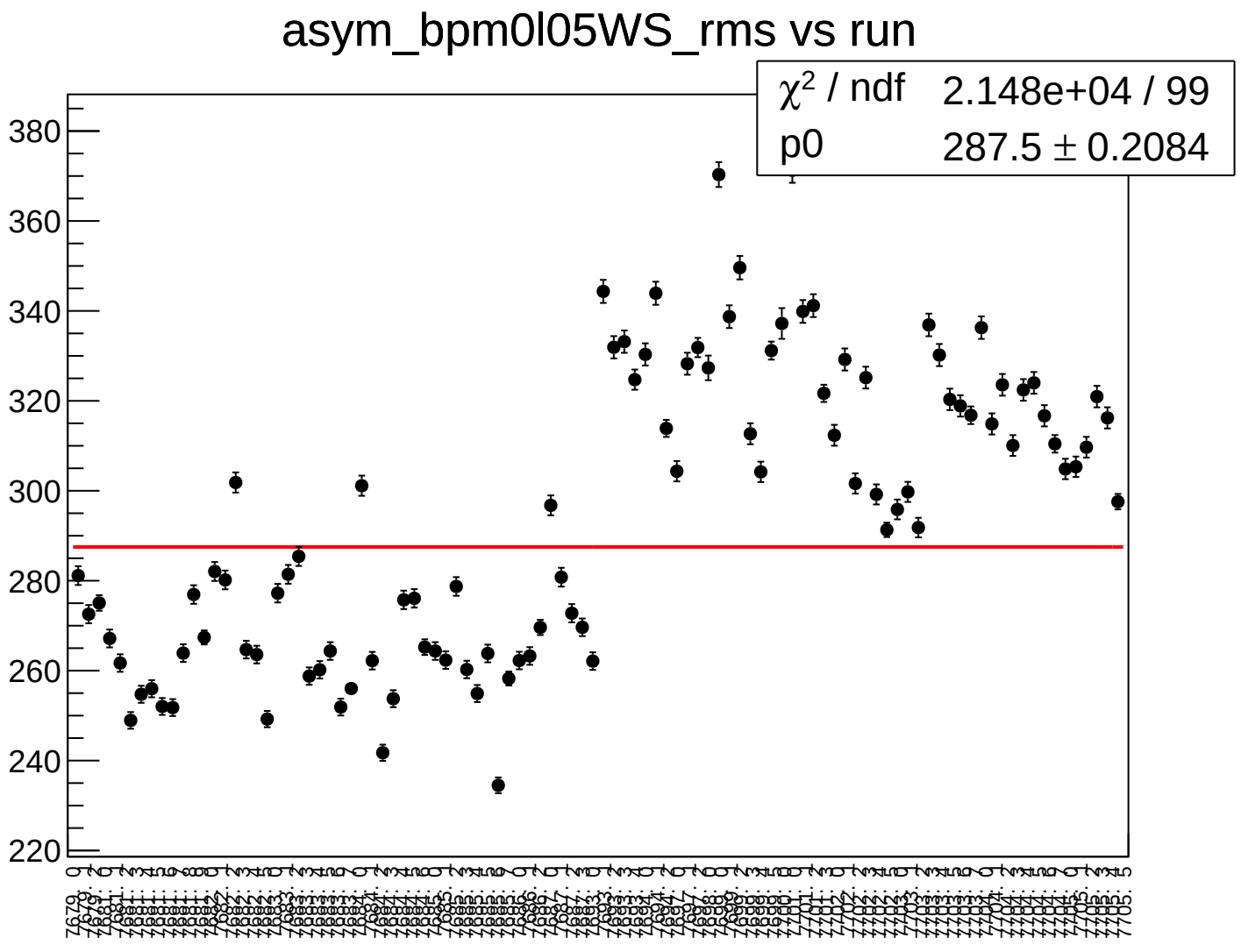

asym_bpm0l03WS_rms vs run
χ² / ndf 4.113e+05 / 99
p0 314.5 ± 0.2556
3000
2500
2000
1500
1000
500

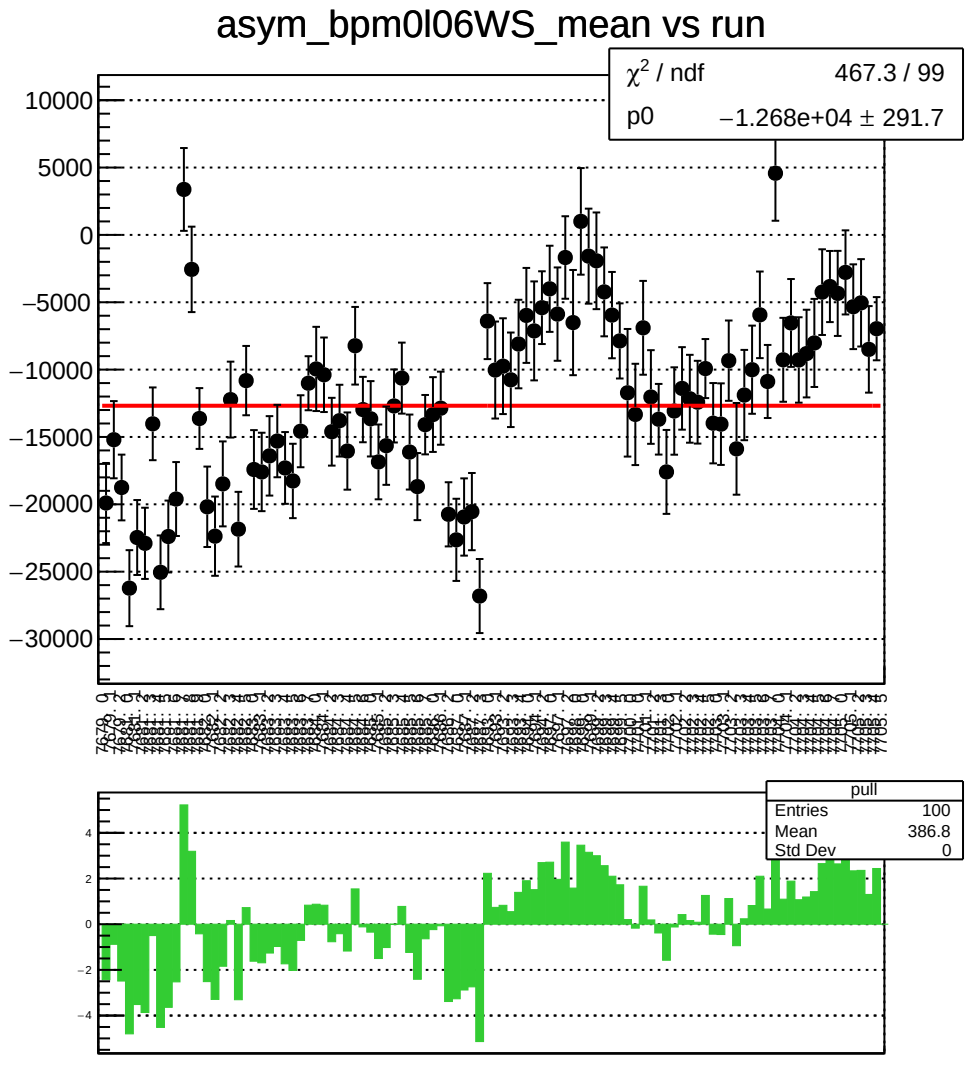

asym_bpm0l04WS_mean vs run
χ² / ndf 404.8 / 99
p0 −1.219e+04 ± 306.4
pull
Entries 100
Mean 339.5
Std Dev 0

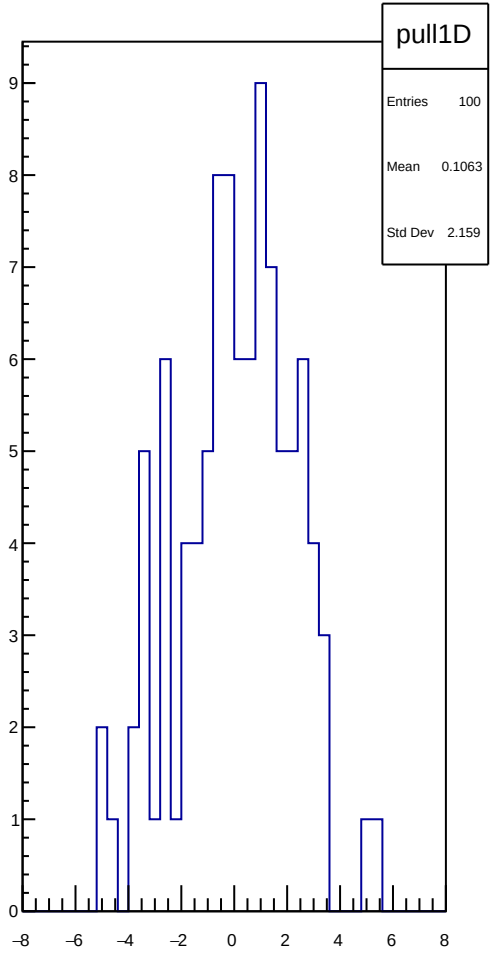

pull1D
Entries 100
Mean 0.1158
Std Dev 2.009

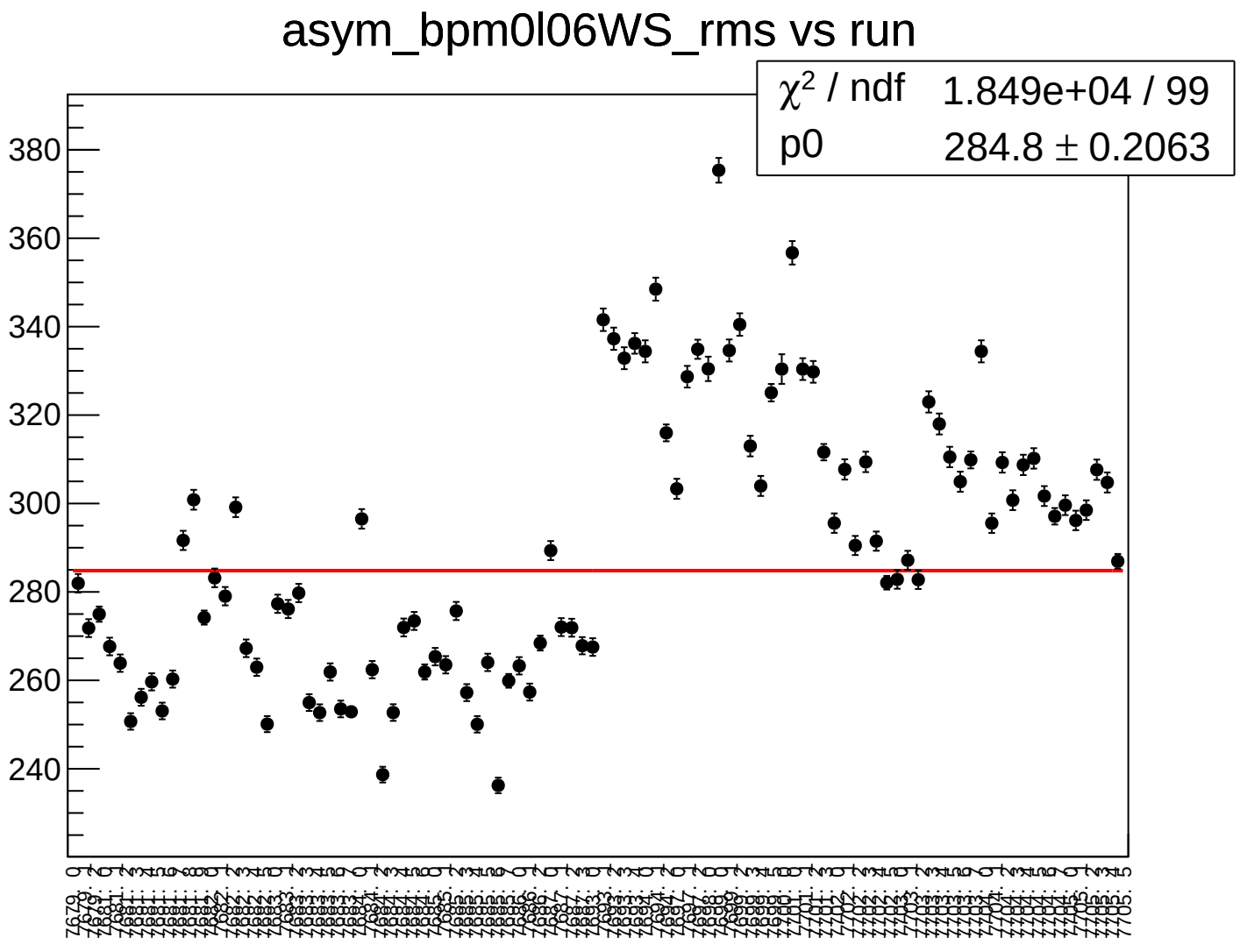

asym_bpm0l04WS_rms vs run
χ² / ndf 2.33e+04 / 99
p0 298.8 ± 0.2166
420
400
380
360
340
320
300
280
260
240

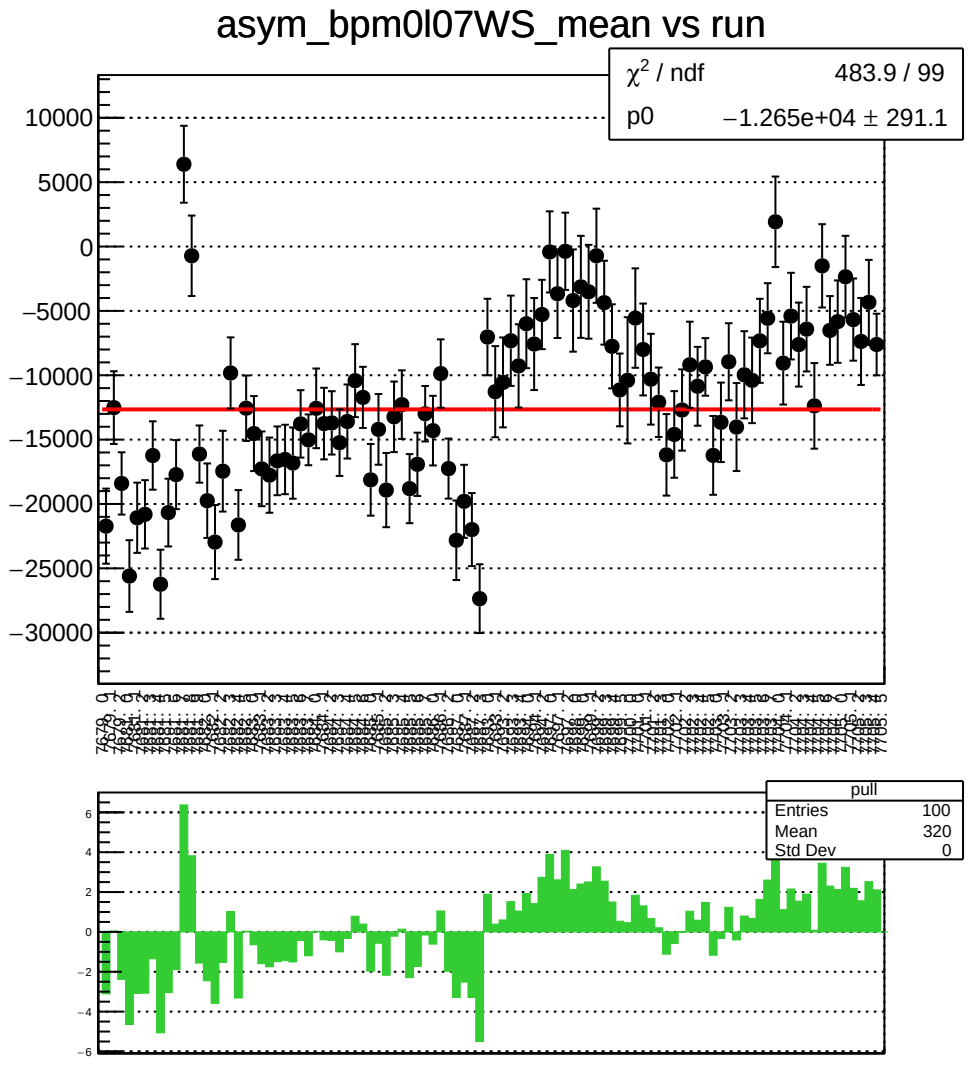

asym_bpm0l05WS_mean vs run
χ² / ndf 454.9 / 99
p0 −1.208e+04 ± 294.7
pull
Entries 100
Mean 376
Std Dev 0
pull1D
Entries 100
Mean 0.1065
Std Dev 2.13

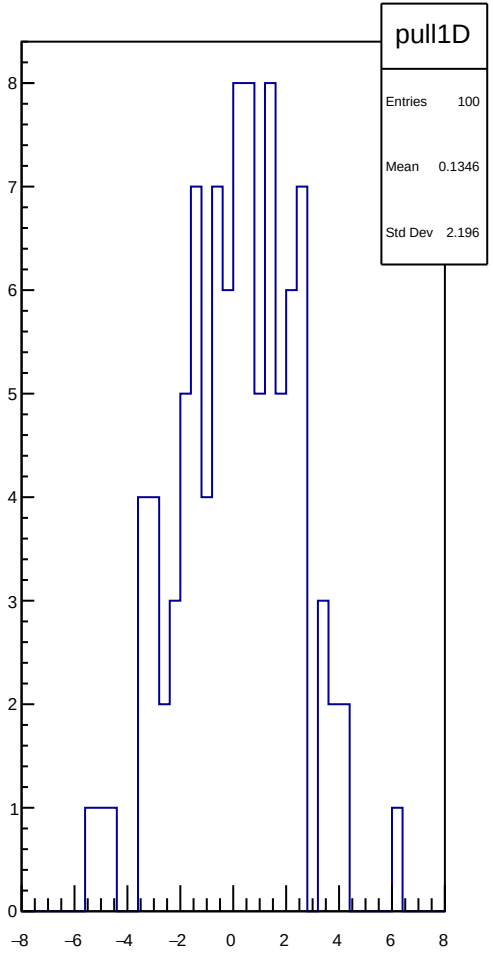

asym_bpm0l05WS_rms vs run
χ² / ndf 2.148e+04 / 99
p0 287.5 ± 0.2084
380
360
340
320
300
280
260
240
220

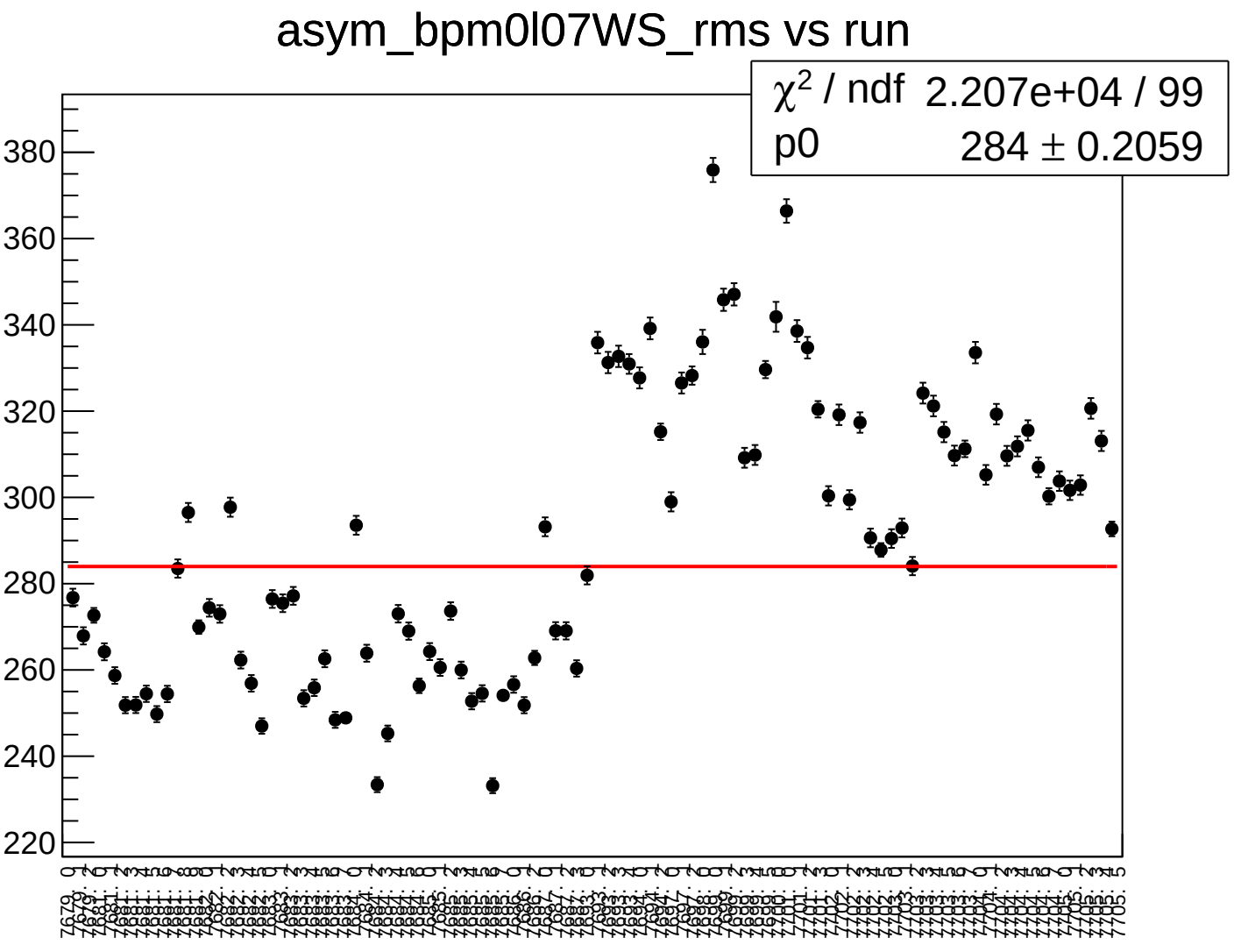

asym_bpm0l06WS_mean vs run
χ² / ndf 467.3 / 99
p0 −1.268e+04 ± 291.7
pull
Entries 100
Mean 386.8
Std Dev 0

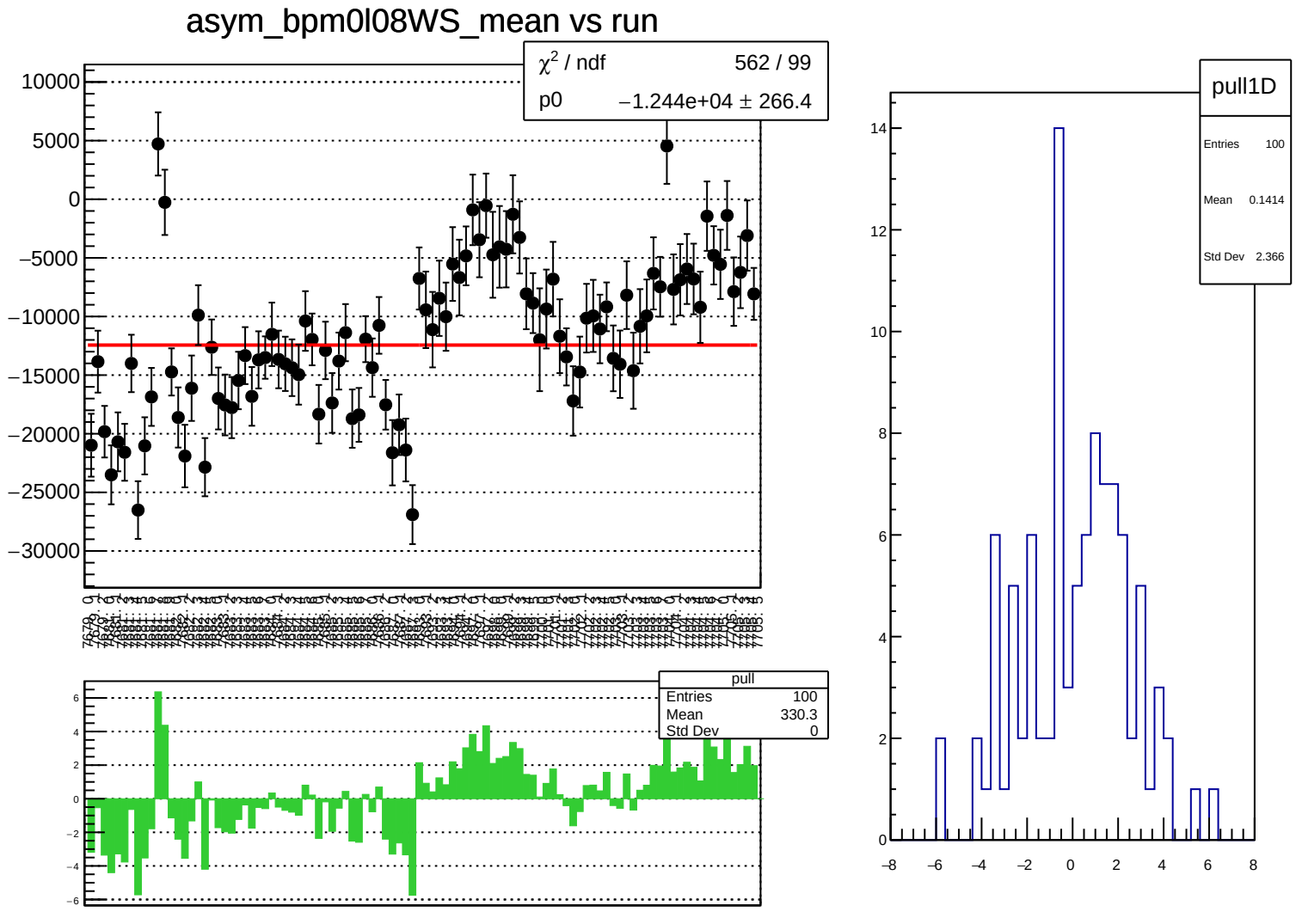

pull1D
Entries 100
Mean 0.1063
Std Dev 2.159

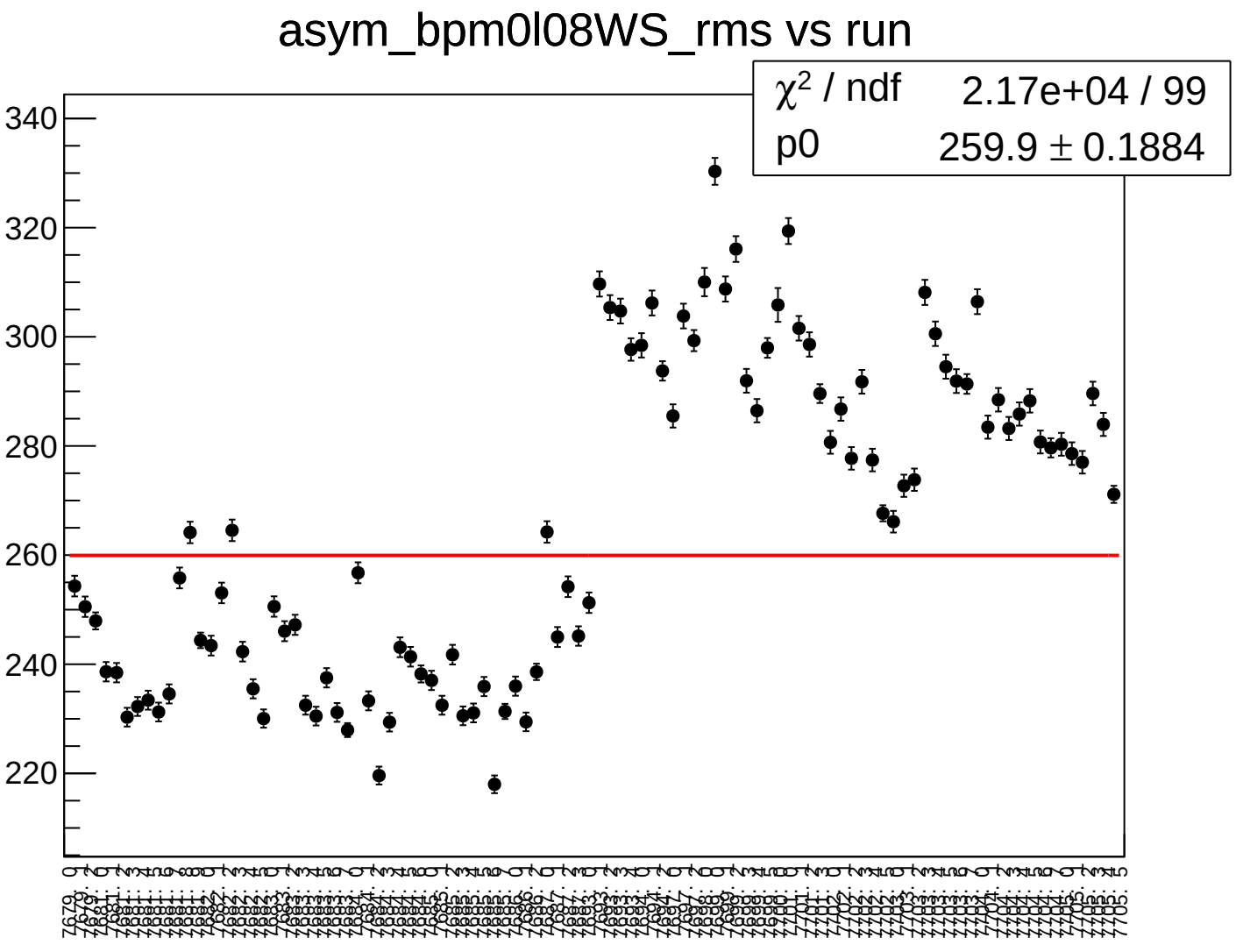

asym_bpm0l06WS_rms vs run
χ² / ndf 1.849e+04 / 99
p0 284.8 ± 0.2063
380
360
340
320
300
280
260
240

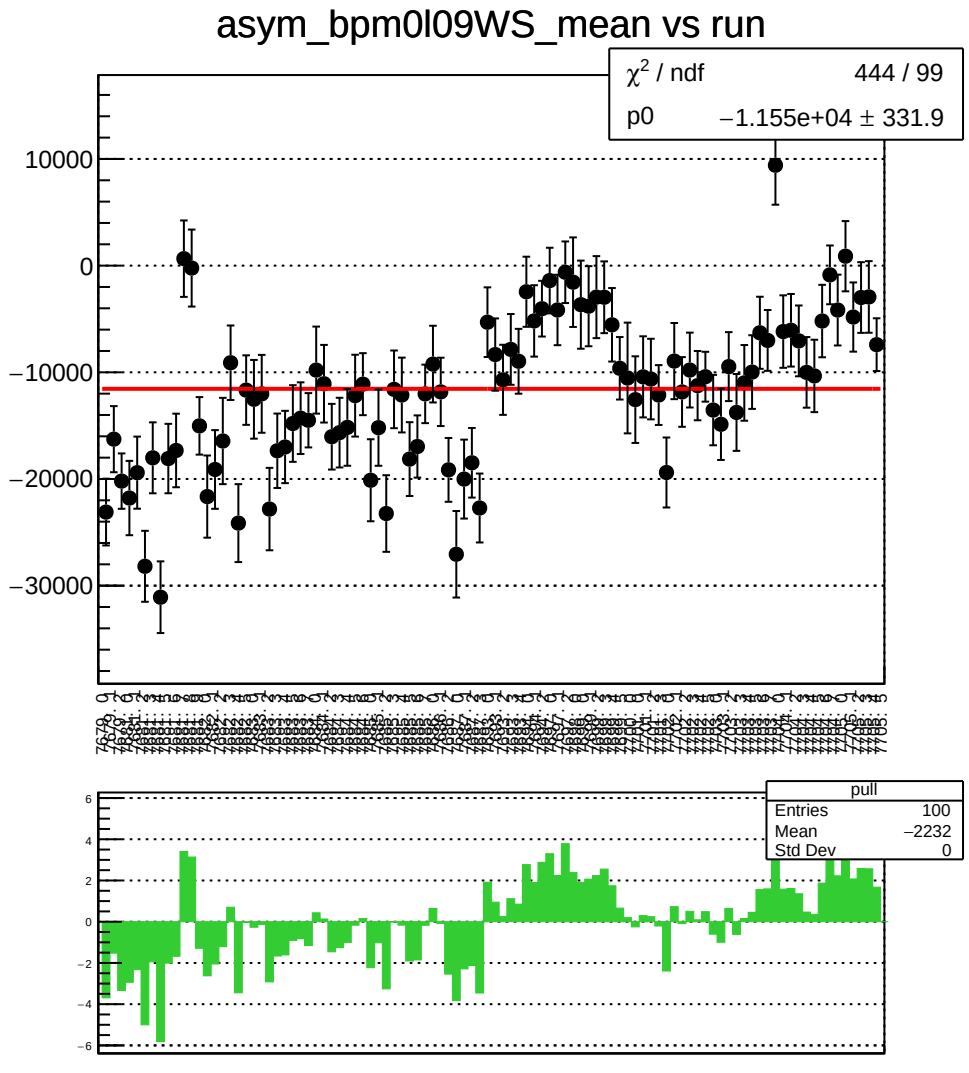

asym_bpm0l07WS_mean vs run
χ² / ndf 483.9 / 99
p0 −1.265e+04 ± 291.1
10000
5000
0
−5000
−10000
−15000
−20000
−25000
−30000
pull
Entries 100
Mean 320
Std Dev 0
6
4
2
0
−2
−4
−6

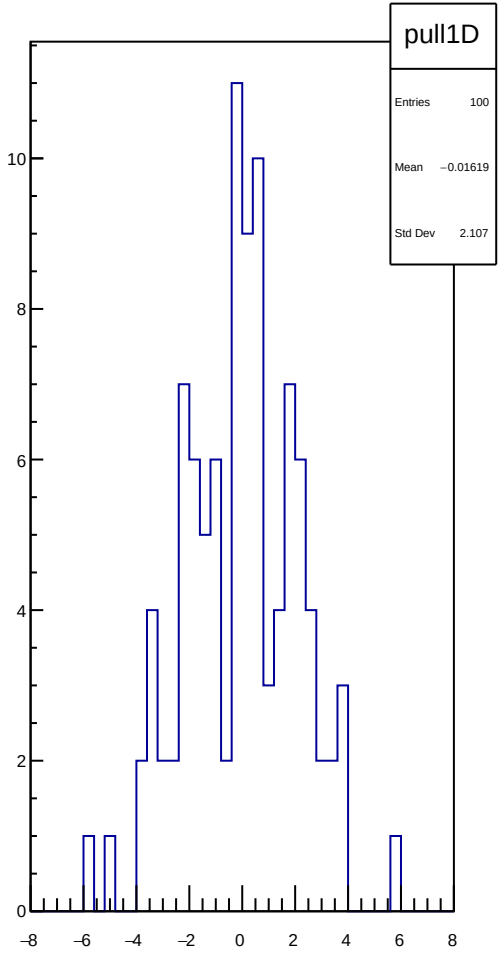

pull1D
Entries 100
Mean 0.1346
Std Dev 2.196
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

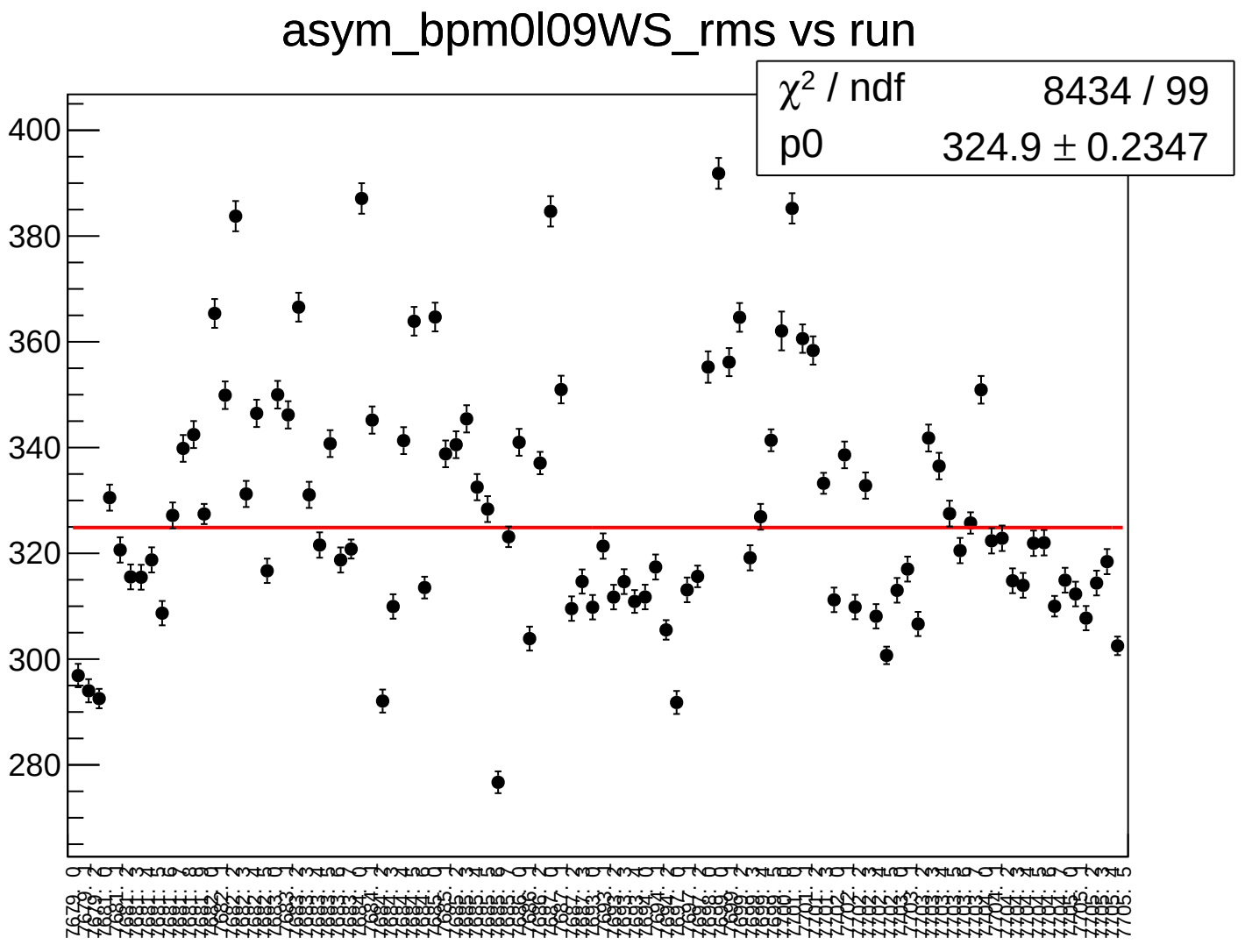

asym_bpm0l07WS_rms vs run
χ^2 / ndf 2.207e+04 / 99
p0 284 ± 0.2059
380
360
340
320
300
280
260
240
220

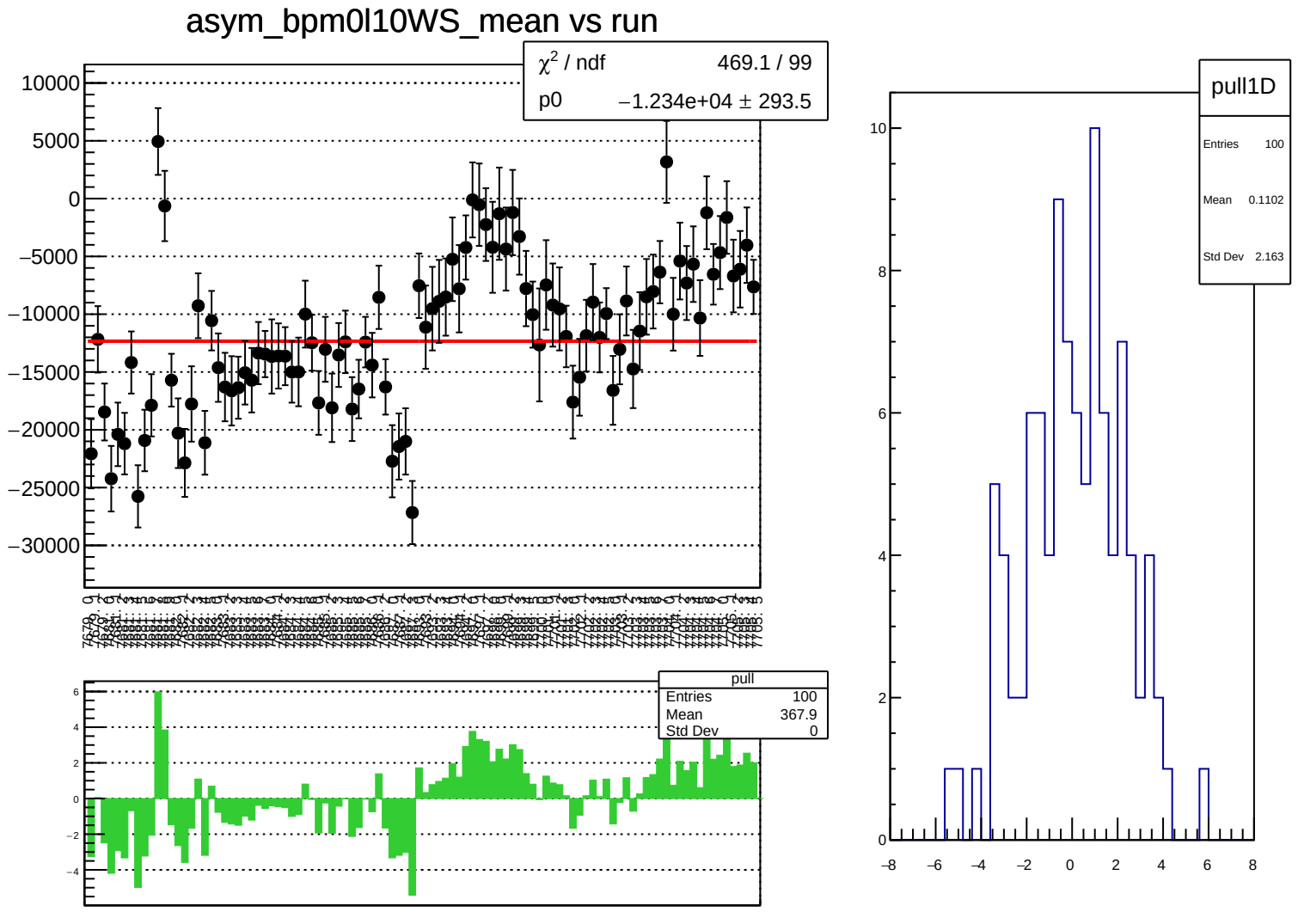

asym_bpm0l08WS_mean vs run
χ² / ndf 562 / 99
p0 −1.244e+04 ± 266.4
pull
Entries 100
Mean 330.3
Std Dev 0
pull1D
Entries 100
Mean 0.1414
Std Dev 2.366

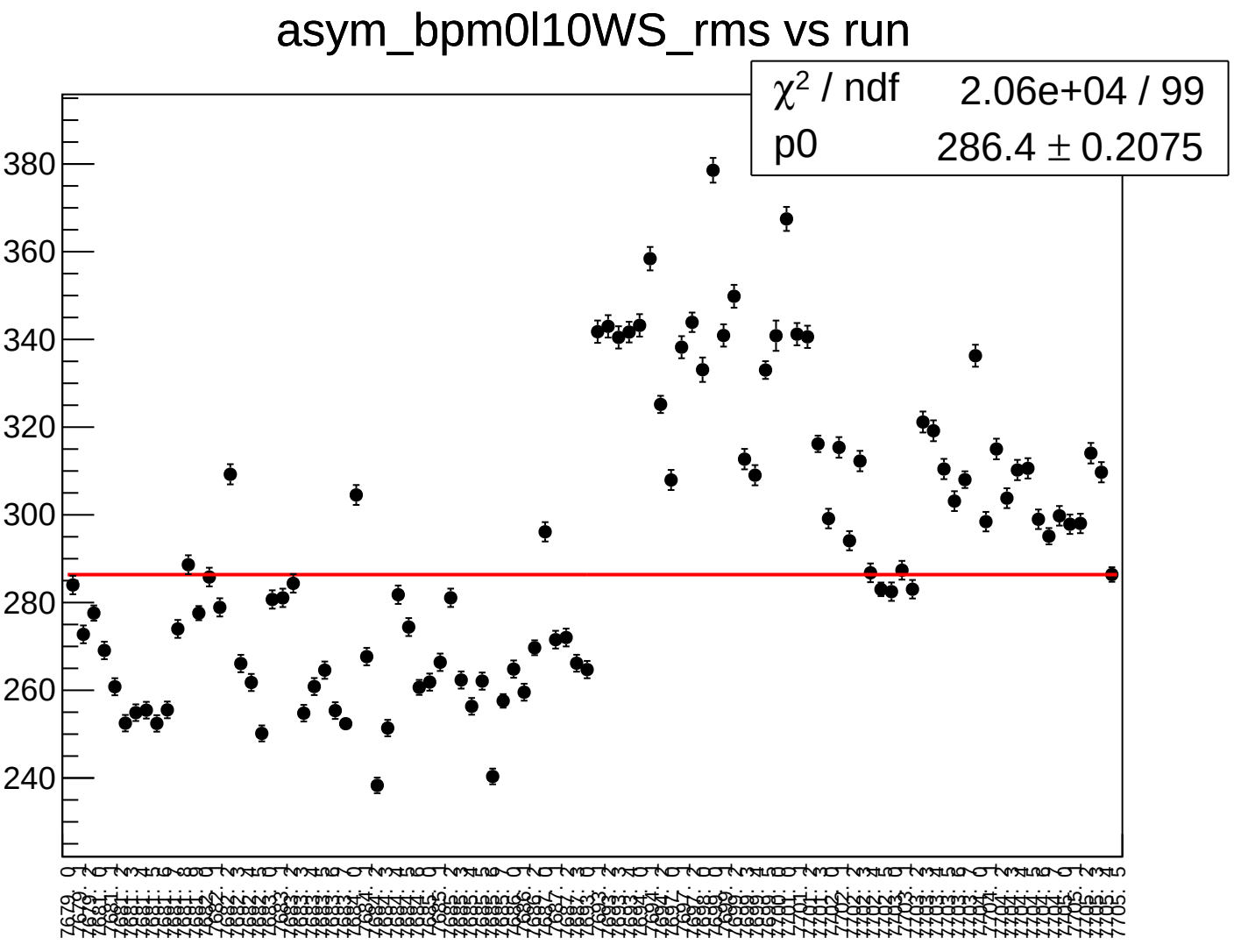

asym_bpm0l08WS_rms vs run
χ² / ndf 2.17e+04 / 99
p0 259.9 ± 0.1884
340
320
300
280
260
240
220

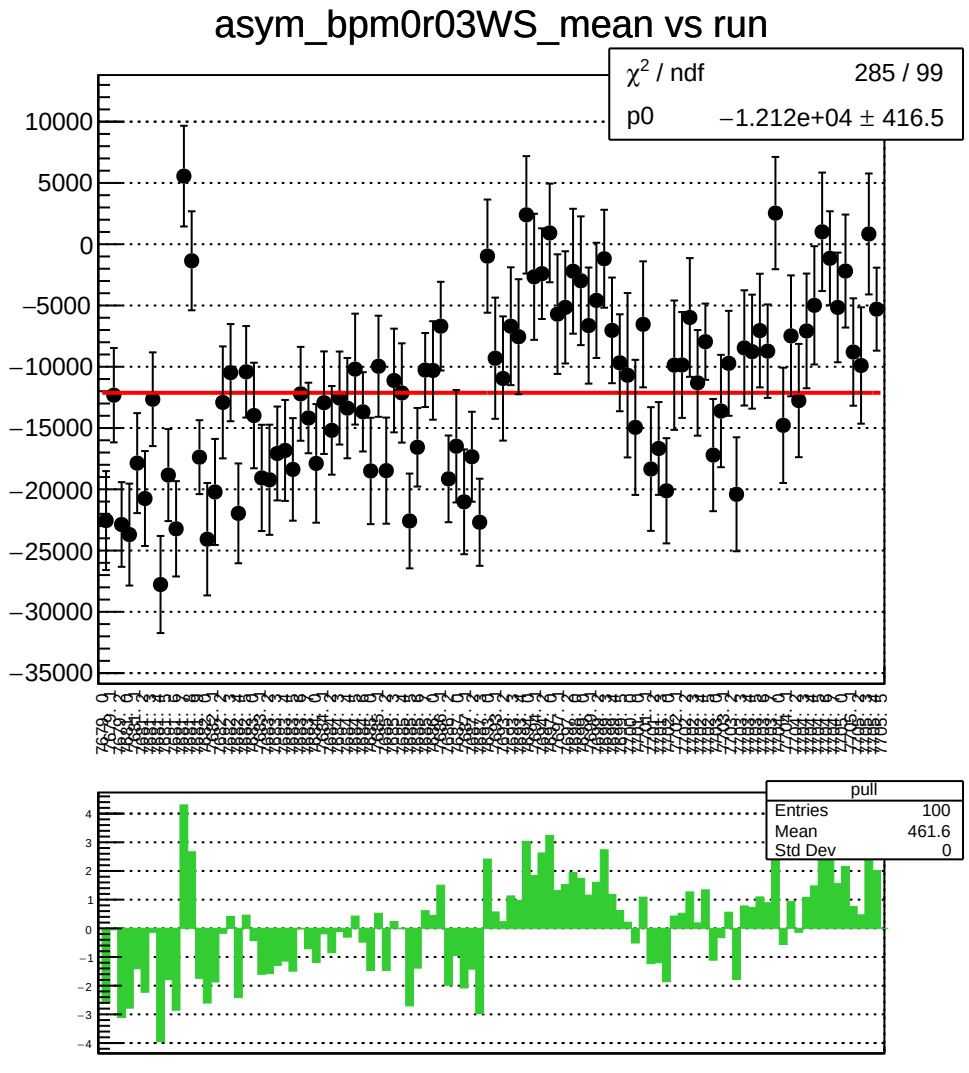

asym_bpm0l09WS_mean vs run
χ² / ndf 444 / 99
p0 −1.155e+04 ± 331.9
10000
0
−10000
−20000
−30000
pull
Entries 100
Mean −2232
Std Dev 0
6
4
2
0
−2
−4
−6

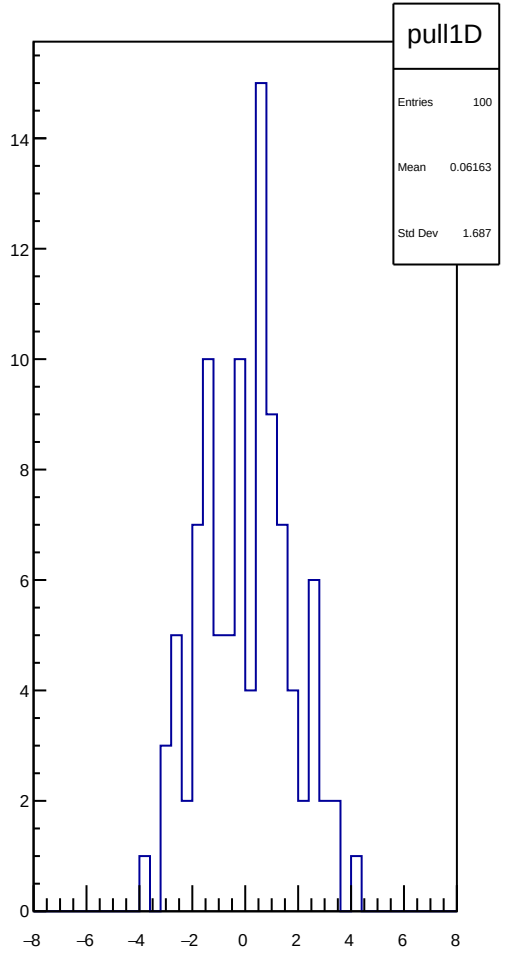

pull1D
Entries 100
Mean −0.01619
Std Dev 2.107
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

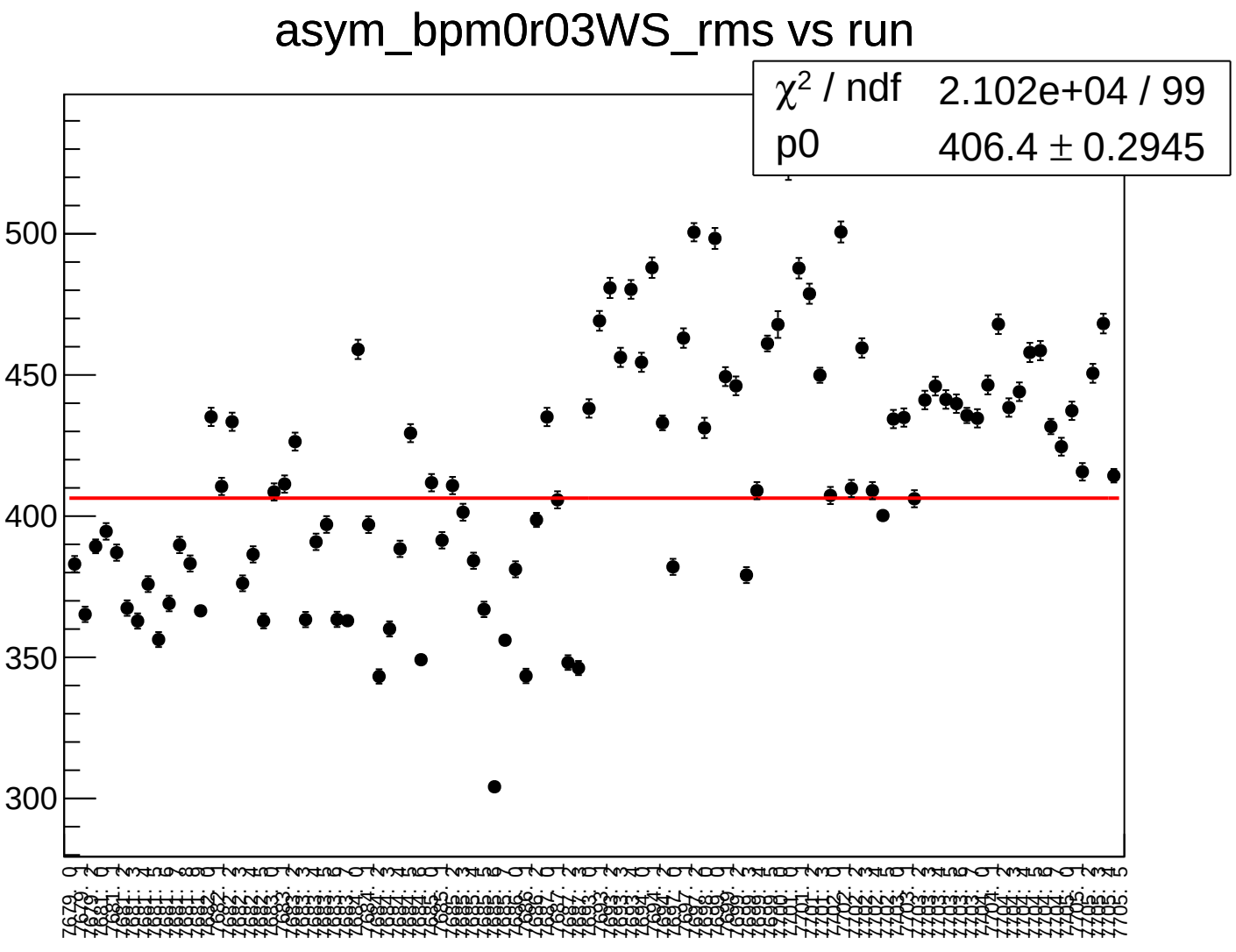

asym_bpm0l09WS_rms vs run
χ² / ndf 8434 / 99
p0 324.9 ± 0.2347
400
380
360
340
320
300
280

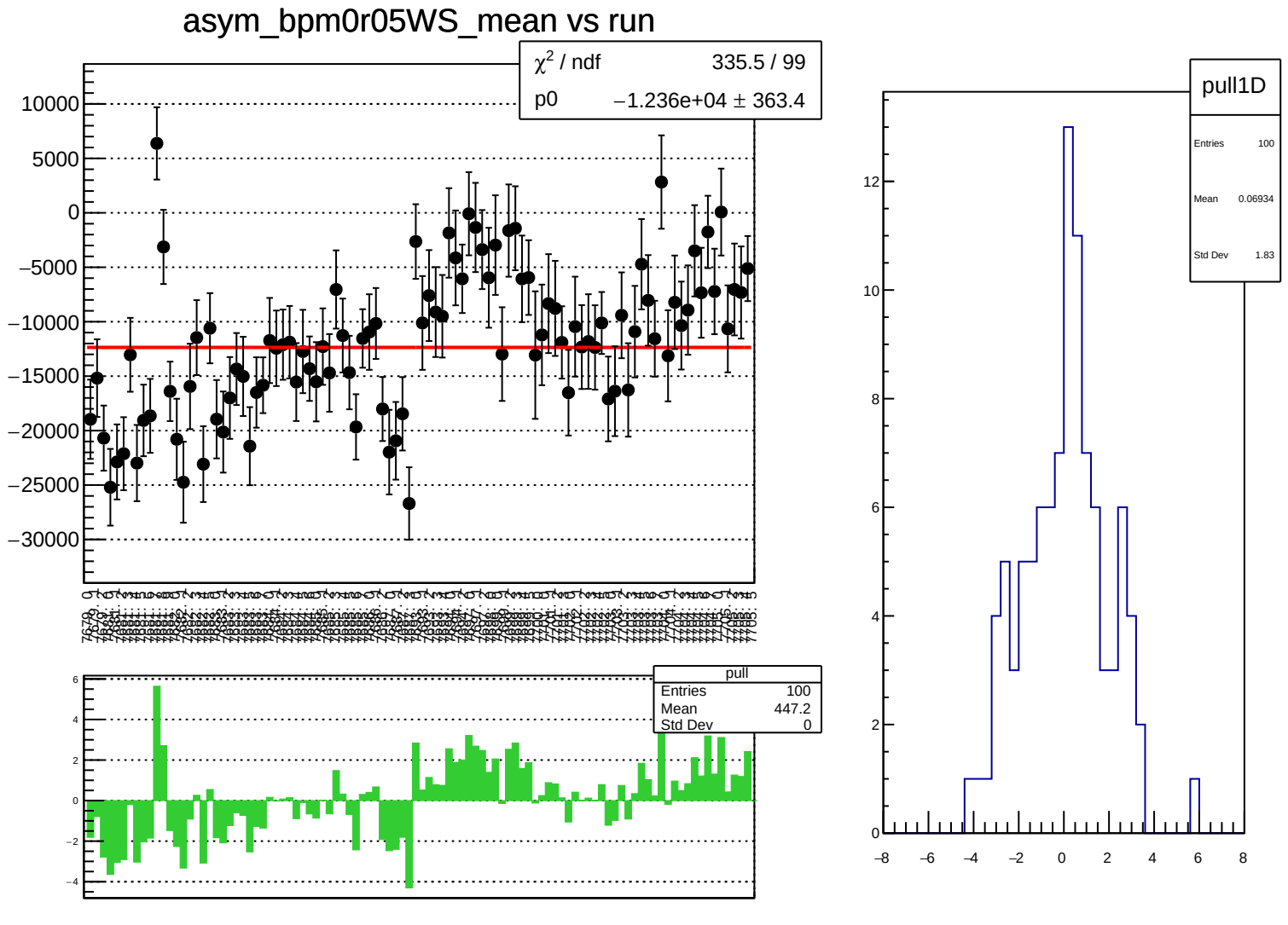

asym_bpm0l10WS_mean vs run
χ² / ndf 469.1 / 99
p0 −1.234e+04 ± 293.5
pull
Entries 100
Mean 367.9
Std Dev 0
pull1D
Entries 100
Mean 0.1102
Std Dev 2.163

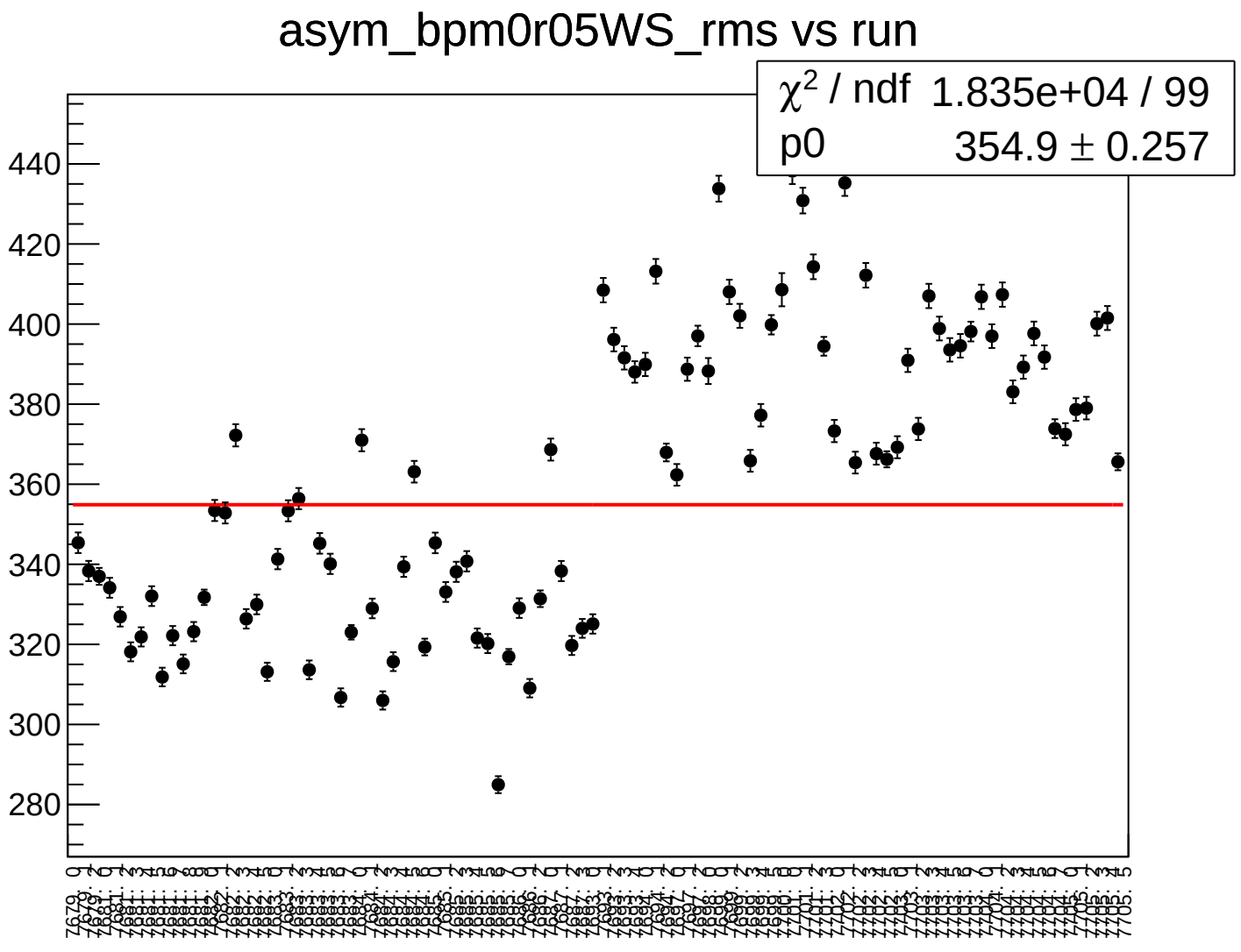

asym_bpm0l10WS_rms vs run
χ² / ndf 2.06e+04 / 99
p0 286.4 ± 0.2075
380
360
340
320
300
280
260
240

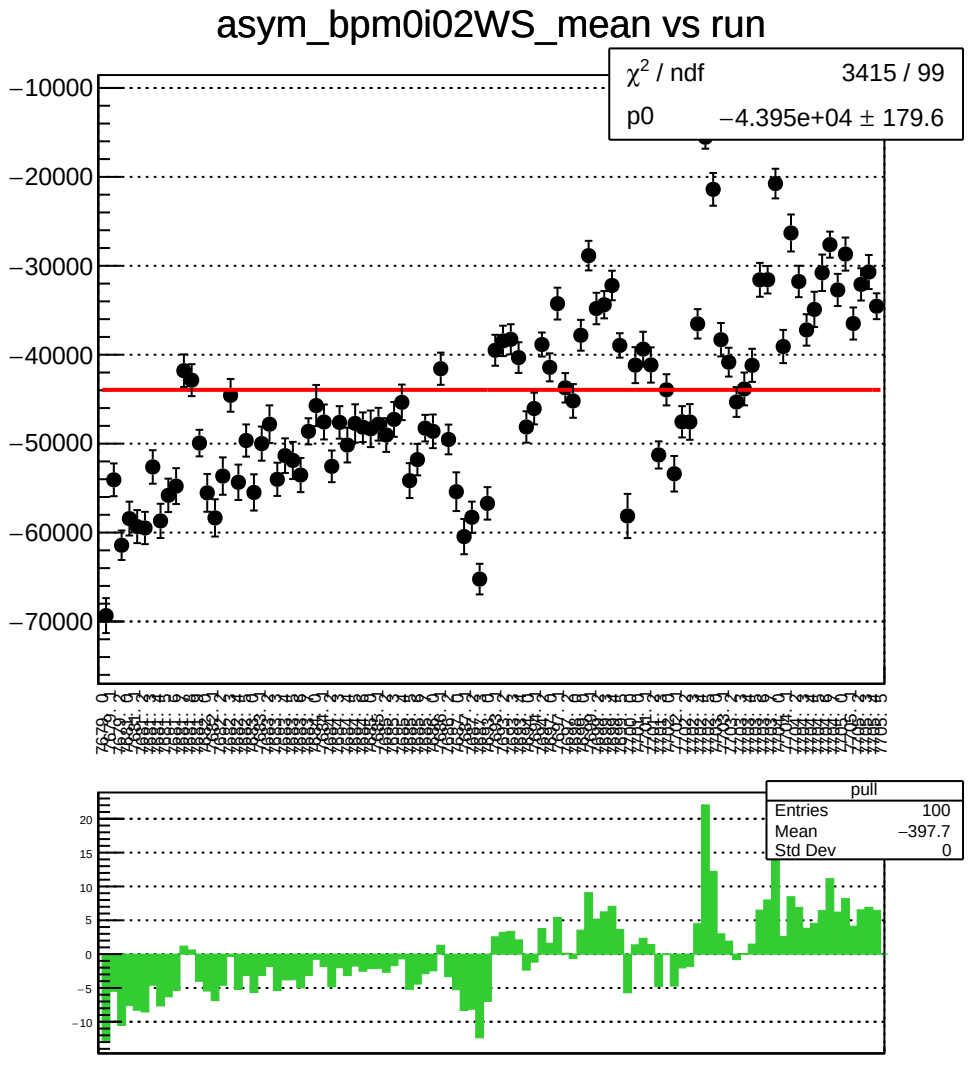

asym_bpm0r03WS_mean vs run
χ² / ndf 285 / 99
p0 −1.212e+04 ± 416.5
pull
Entries 100
Mean 461.6
Std Dev 0

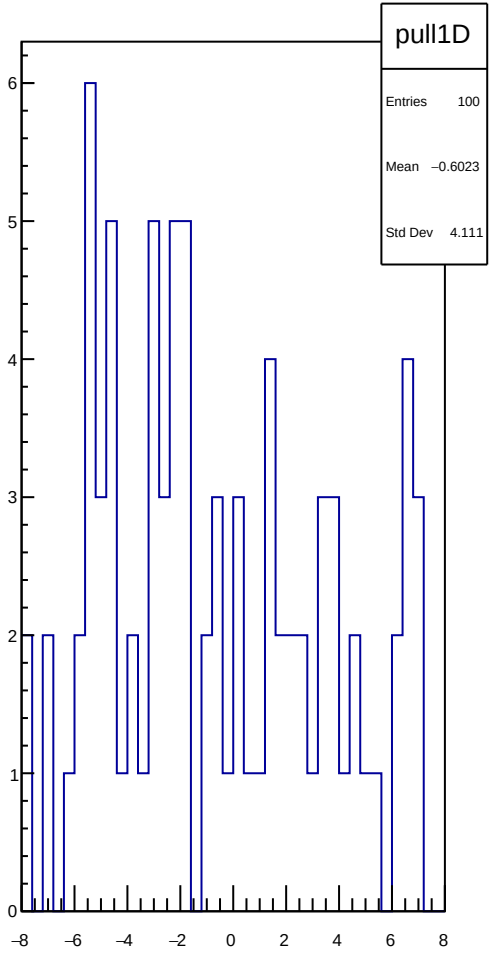

pull1D
Entries 100
Mean 0.06163
Std Dev 1.687

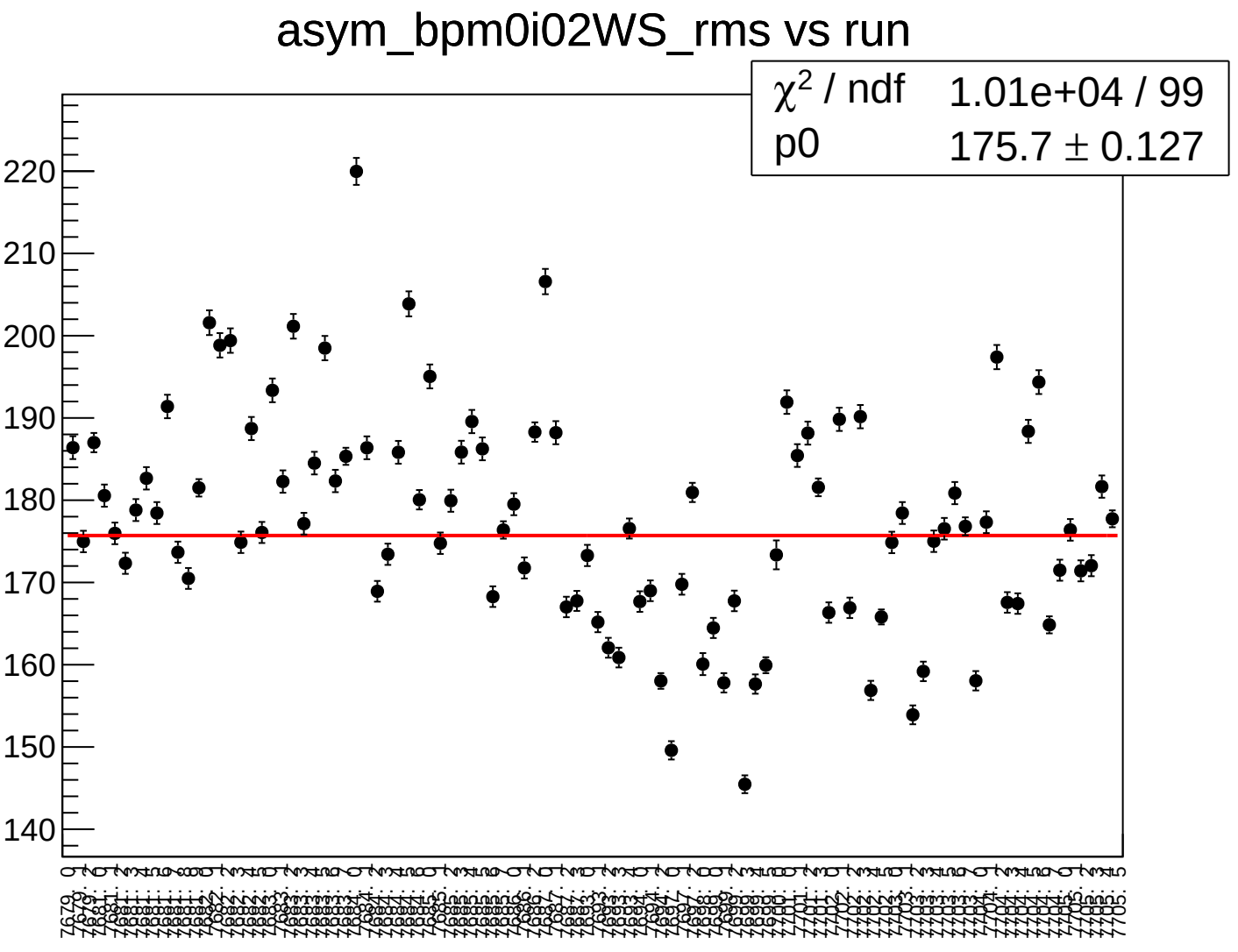

asym_bpm0r03WS_rms vs run
χ² / ndf 2.102e+04 / 99
p0 406.4 ± 0.2945
500
450
400
350
300

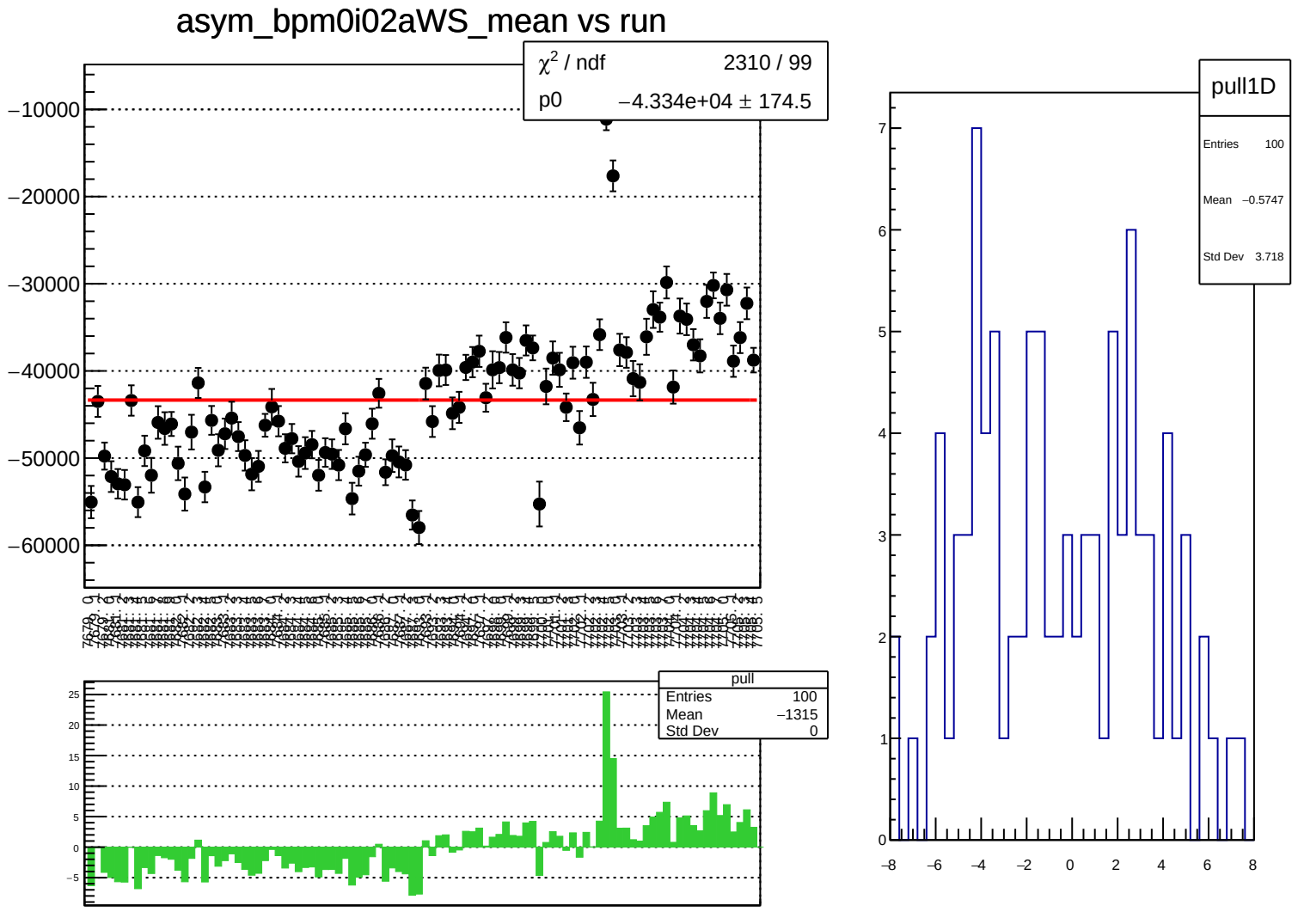

asym_bpm0r05WS_mean vs run
χ² / ndf 335.5 / 99
p0 −1.236e+04 ± 363.4
pull
Entries 100
Mean 447.2
Std Dev 0
pull1D
Entries 100
Mean 0.06934
Std Dev 1.83

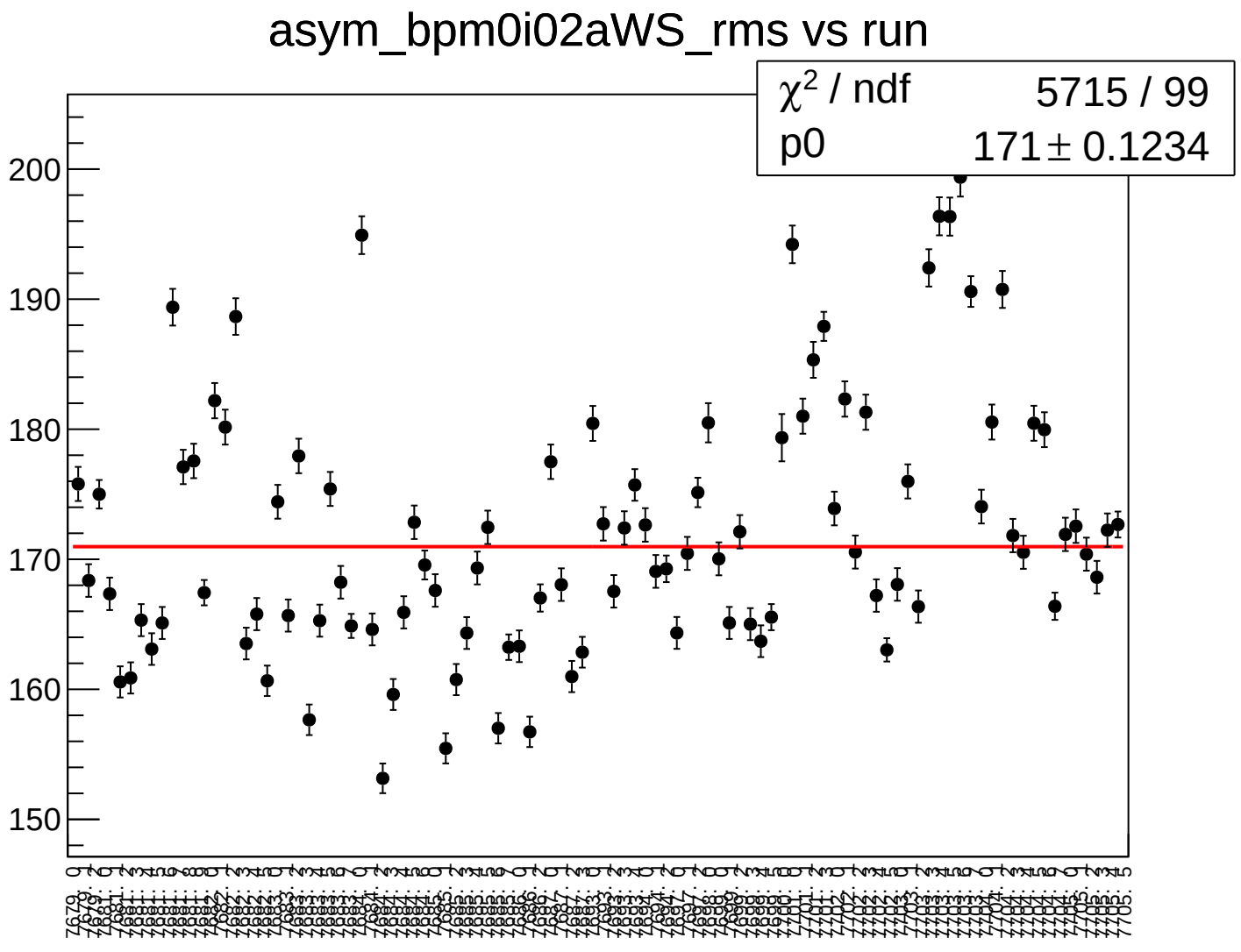

asym_bpm0r05WS_rms vs run
χ^2 / ndf 1.835e+04 / 99
p0 354.9 ± 0.257
440
420
400
380
360
340
320
300
280

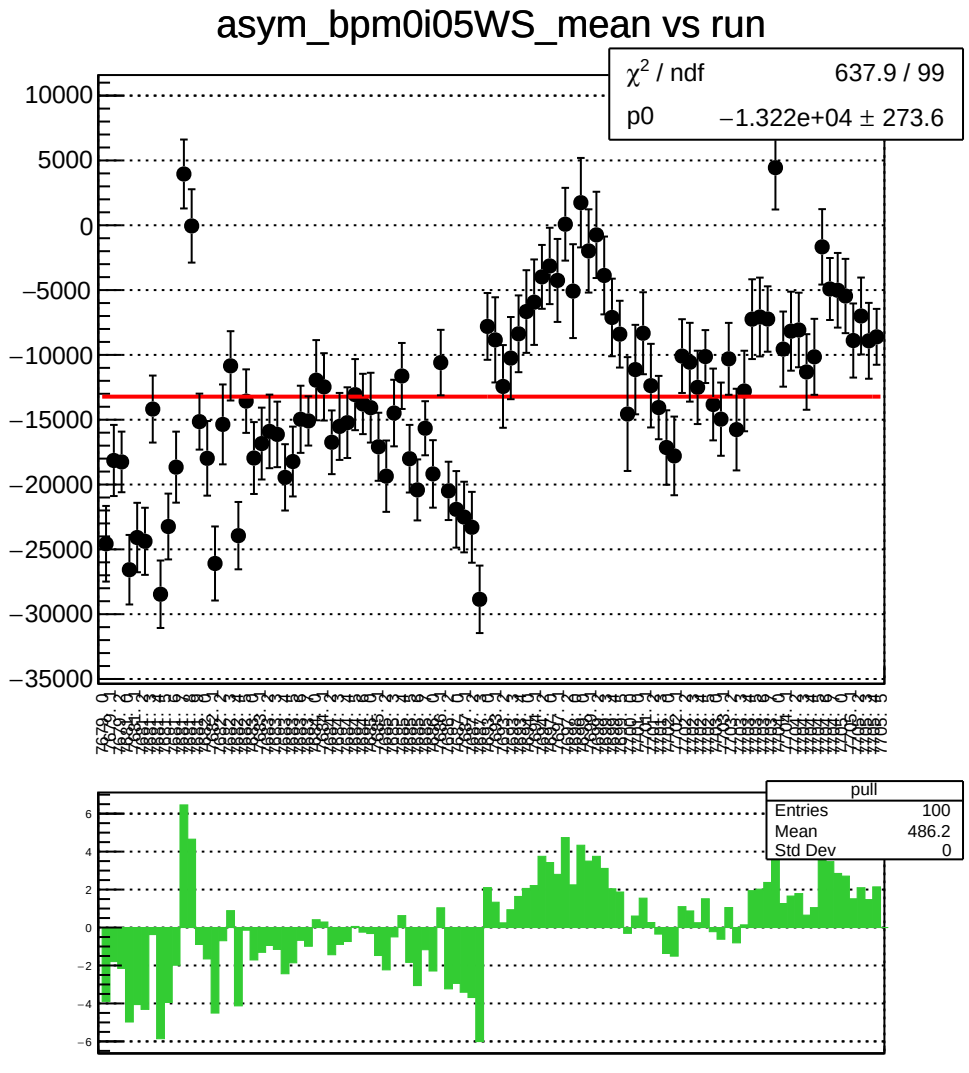

asym_bpm0i02WS_mean vs run
χ² / ndf 3415 / 99
p0 −4.395e+04 ± 179.6
−10000
−20000
−30000
−40000
−50000
−60000
−70000
pull
Entries 100
Mean −397.7
Std Dev 0
20
15
10
5
0
−5
−10

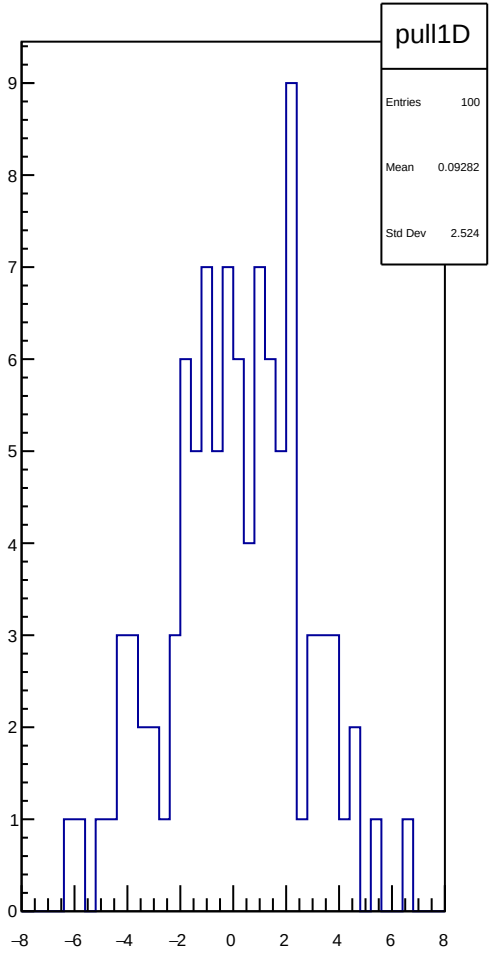

pull1D
Entries 100
Mean −0.6023
Std Dev 4.111
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

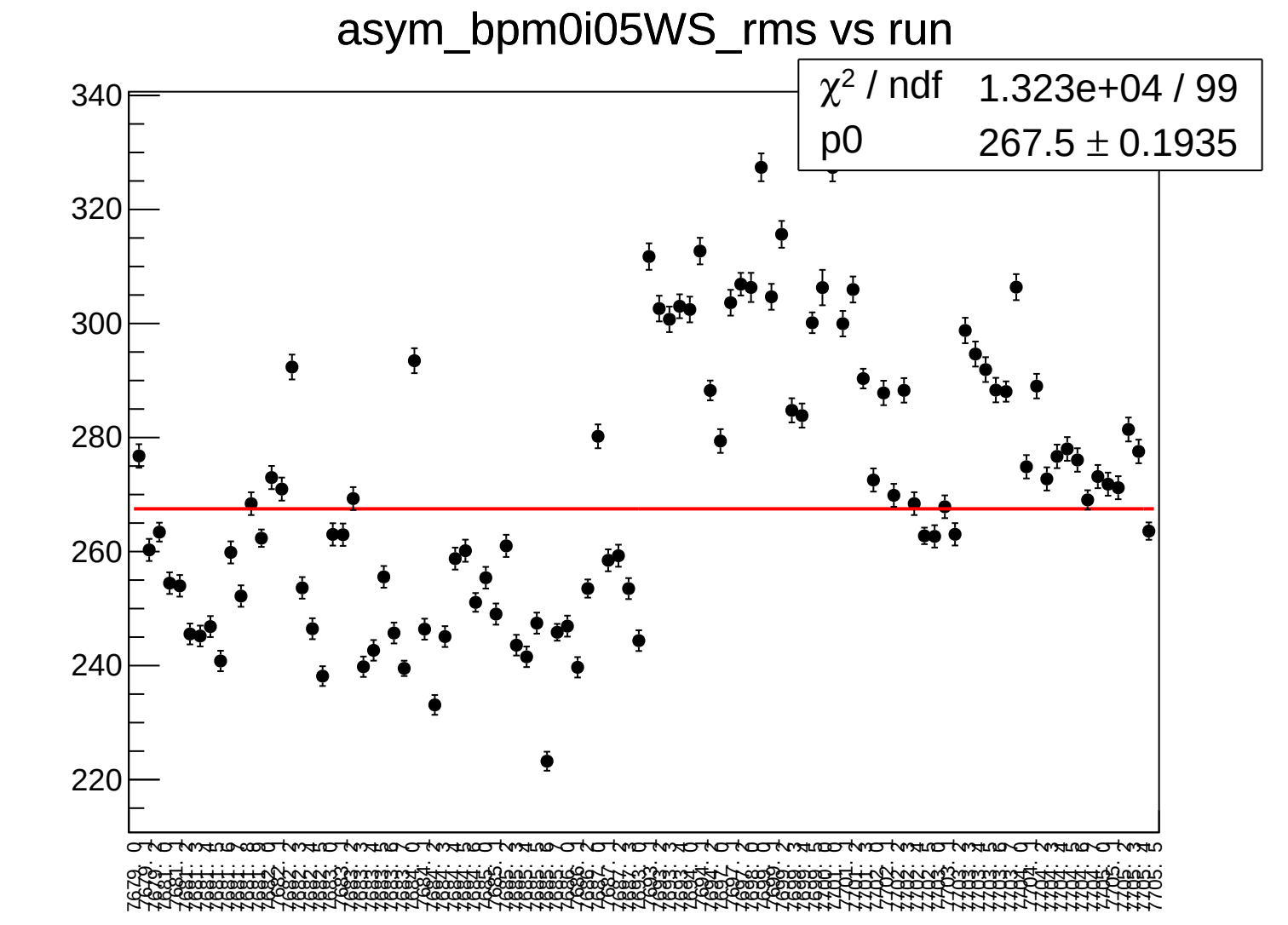

asym_bpm0i02WS_rms vs run
χ² / ndf 1.01e+04 / 99
p0 175.7 ± 0.127
220
210
200
190
180
170
160
150
140

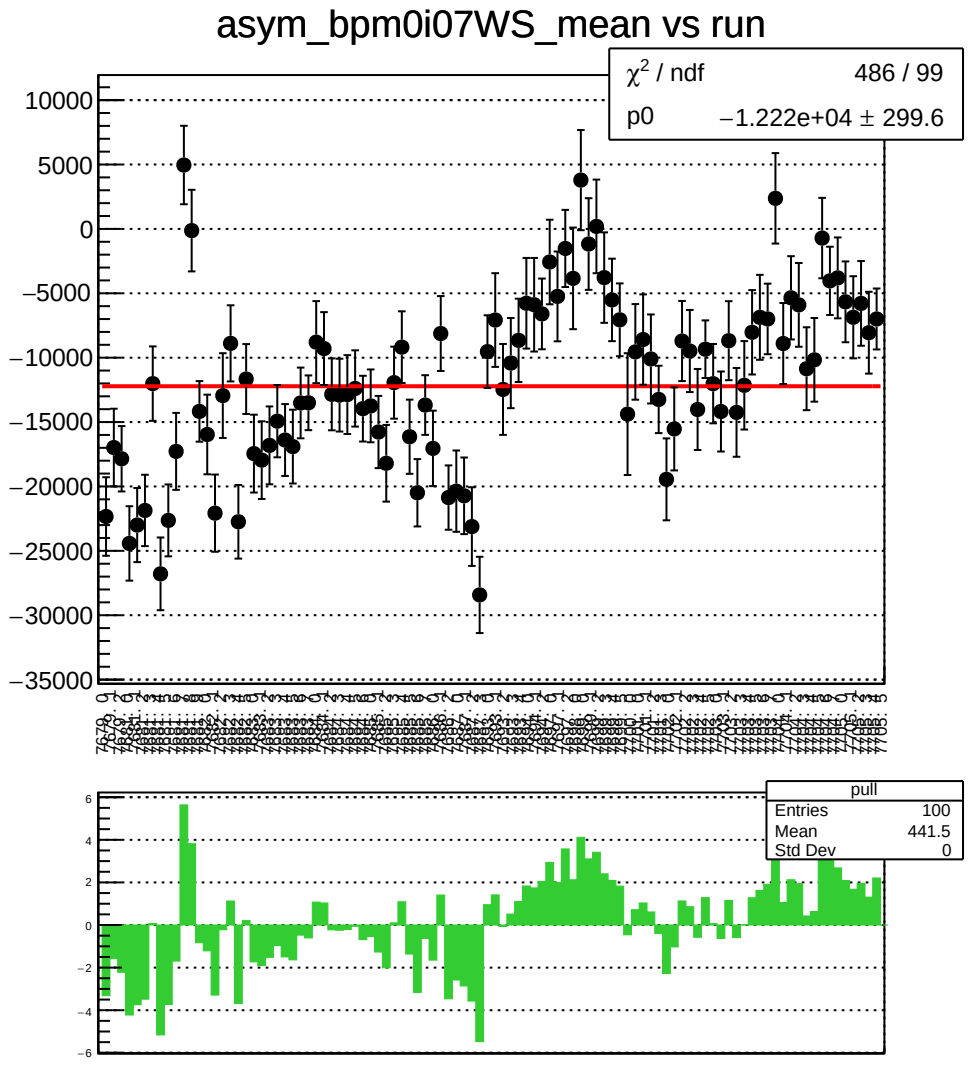

asym_bpm0i02aWS_mean vs run
χ² / ndf 2310 / 99
p0 −4.334e+04 ± 174.5
−10000
−20000
−30000
−40000
−50000
−60000
pull
Entries 100
Mean −1315
Std Dev 0
25
20
15
10
5
0
−5
pull1D
Entries 100
Mean −0.5747
Std Dev 3.718
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

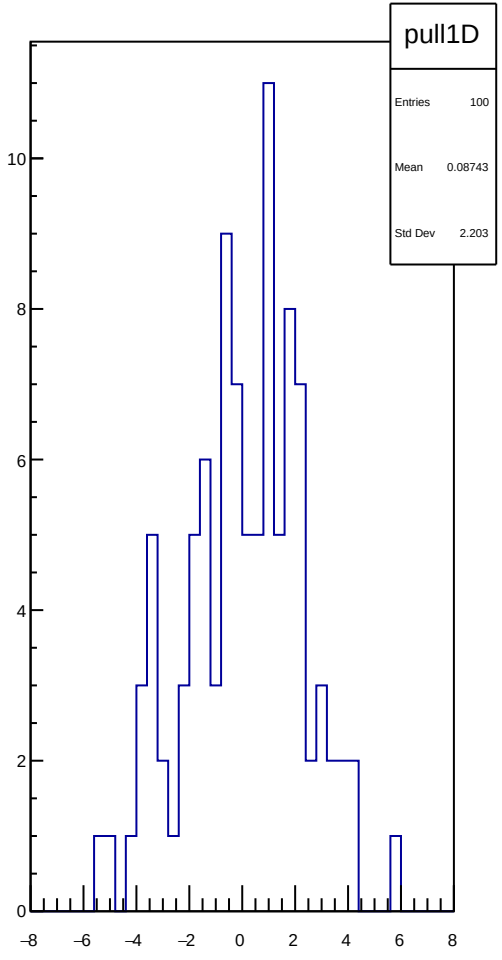

asym_bpm0i02aWS_rms vs run
χ^2 / ndf 5715 / 99
p0 171 ± 0.1234
200
190
180
170
160
150

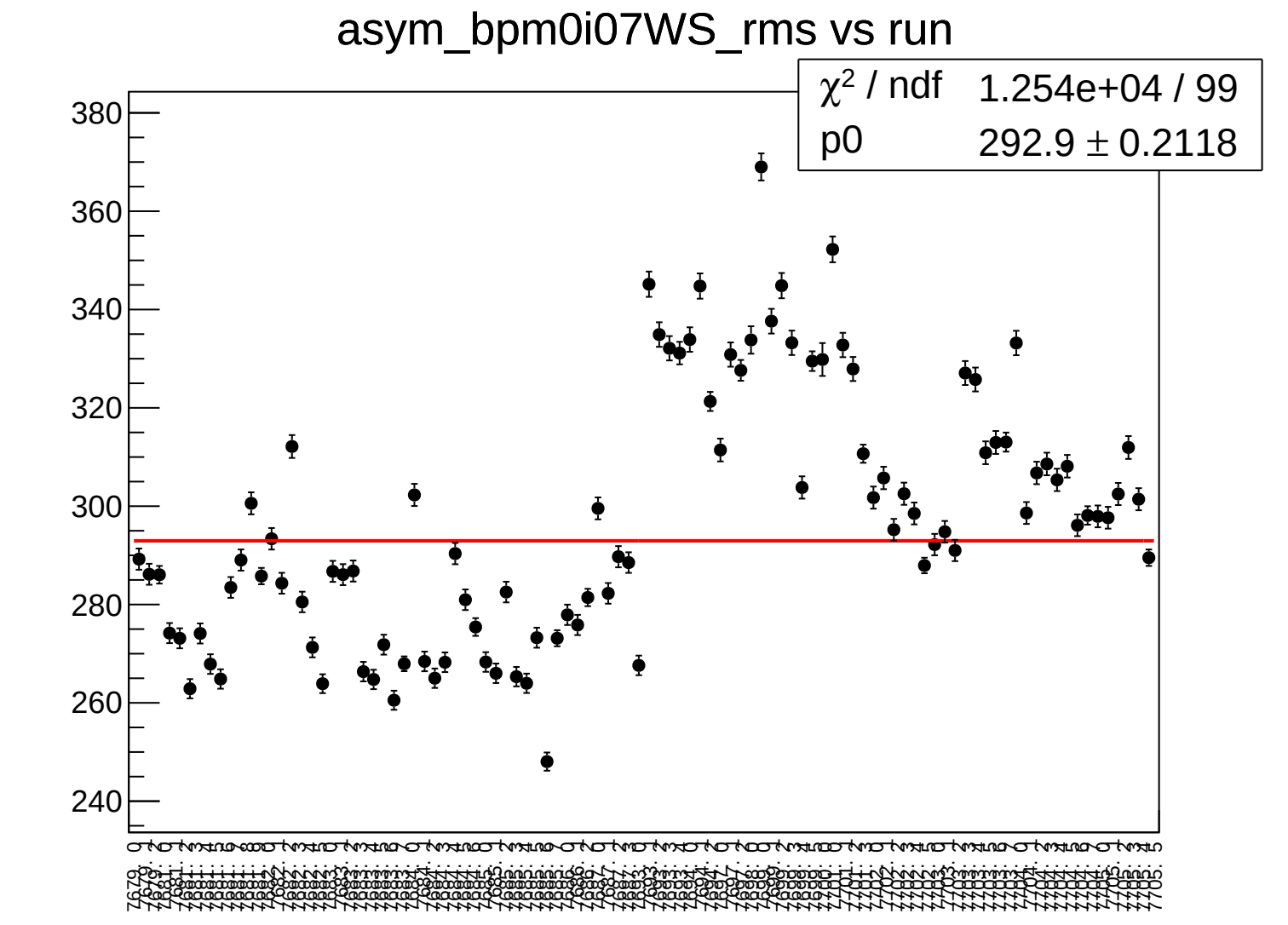

asym_bpm0i05WS_mean vs run
χ² / ndf 637.9 / 99
p0 −1.322e+04 ± 273.6
pull
Entries 100
Mean 486.2
Std Dev 0

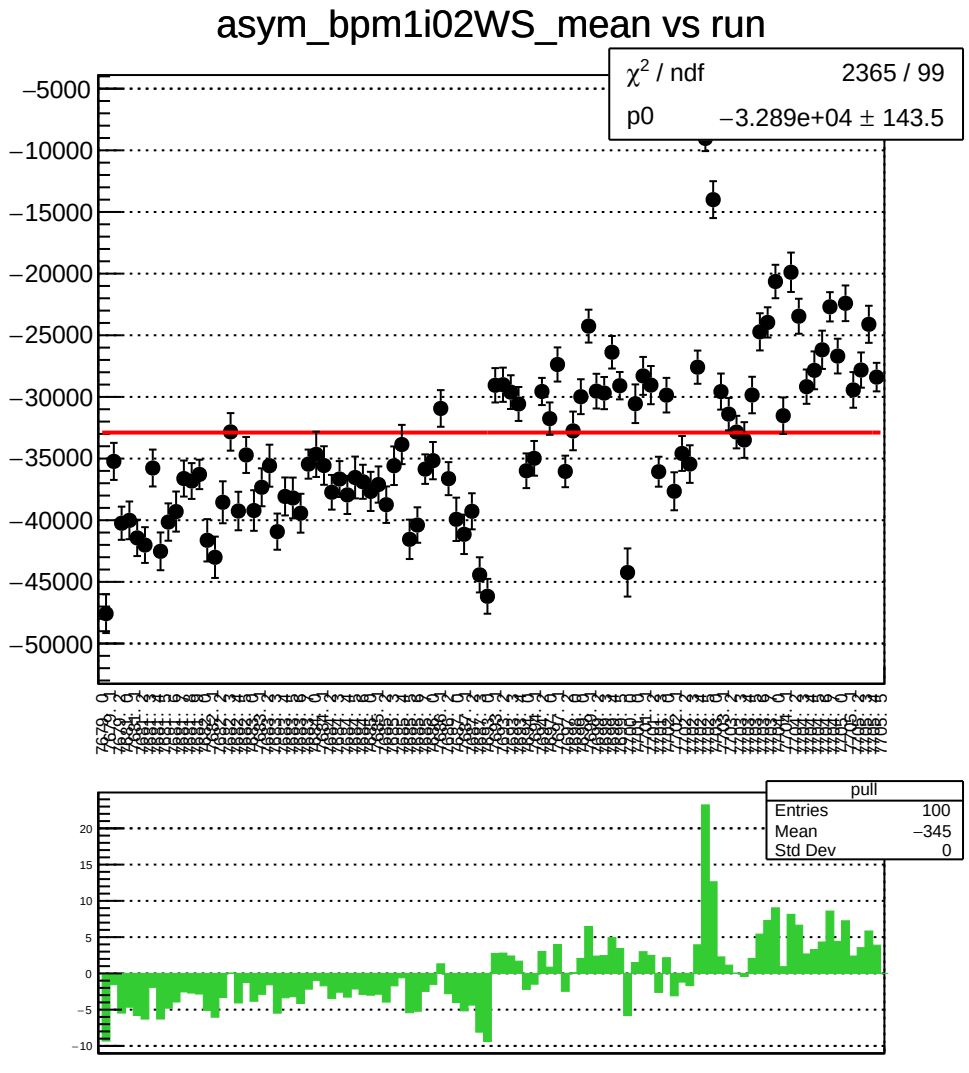

pull1D
Entries 100
Mean 0.09282
Std Dev 2.524

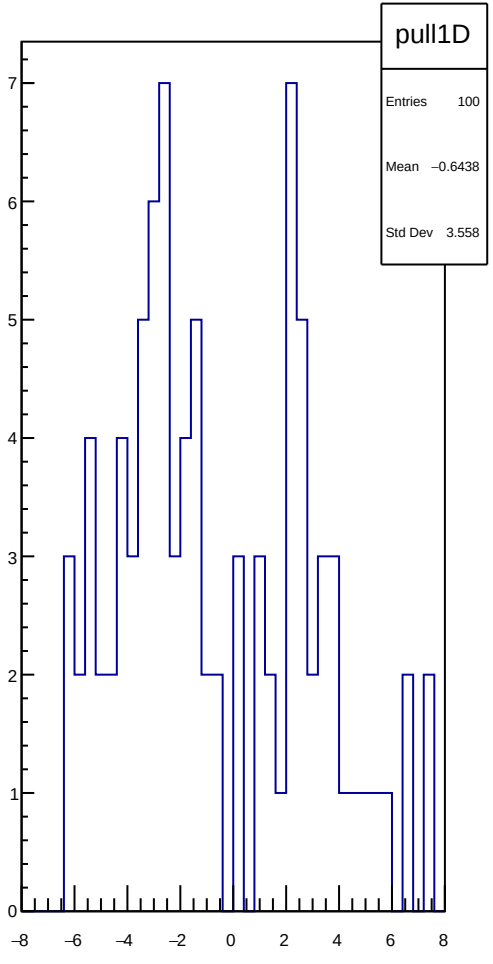

asym_bpm0i05WS_rms vs run
χ² / ndf 1.323e+04 / 99
p0 267.5 ± 0.1935
340
320
300
280
260
240
220

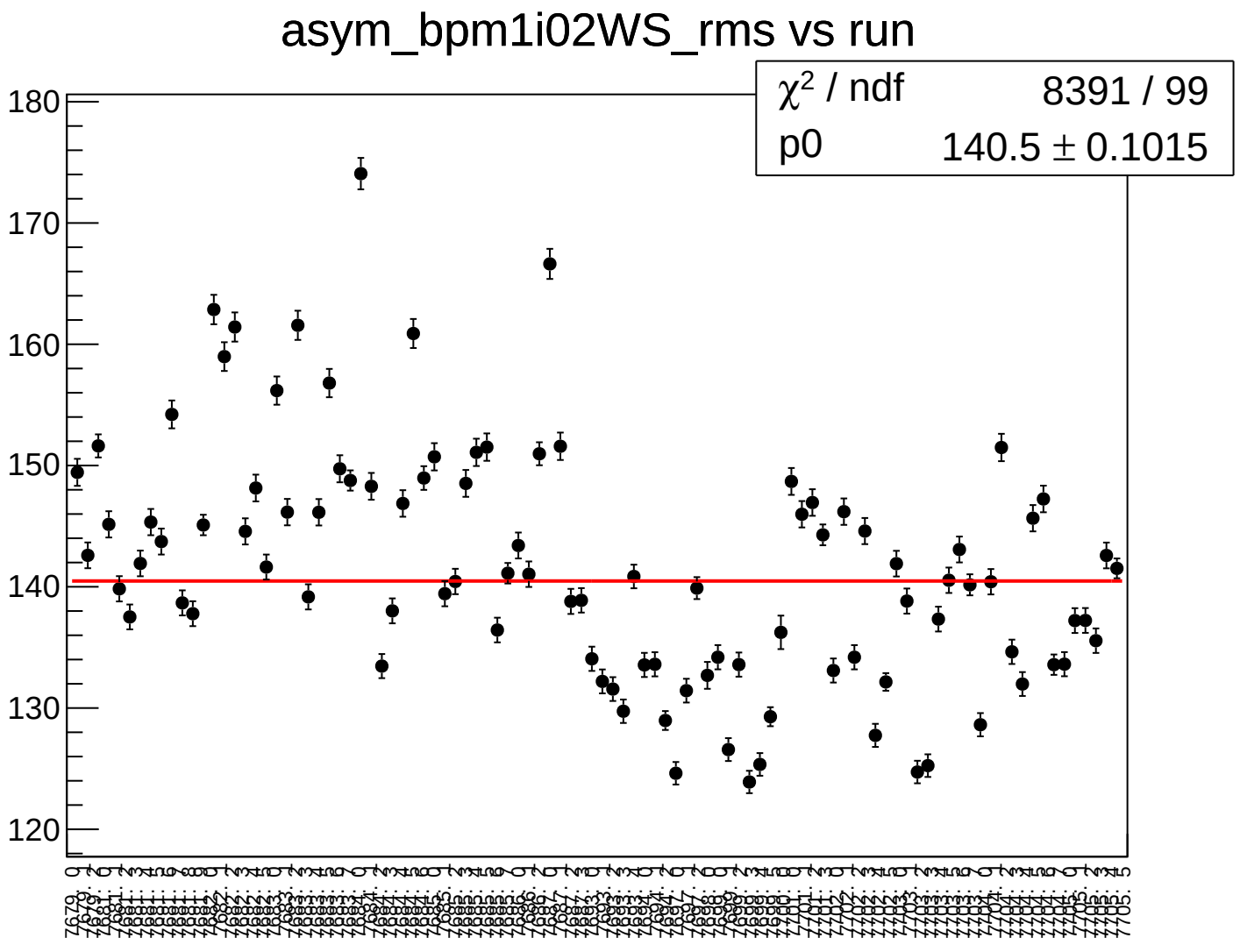

asym_bpm0i07WS_mean vs run
χ² / ndf 486 / 99
p0 −1.222e+04 ± 299.6
pull
Entries 100
Mean 441.5
Std Dev 0

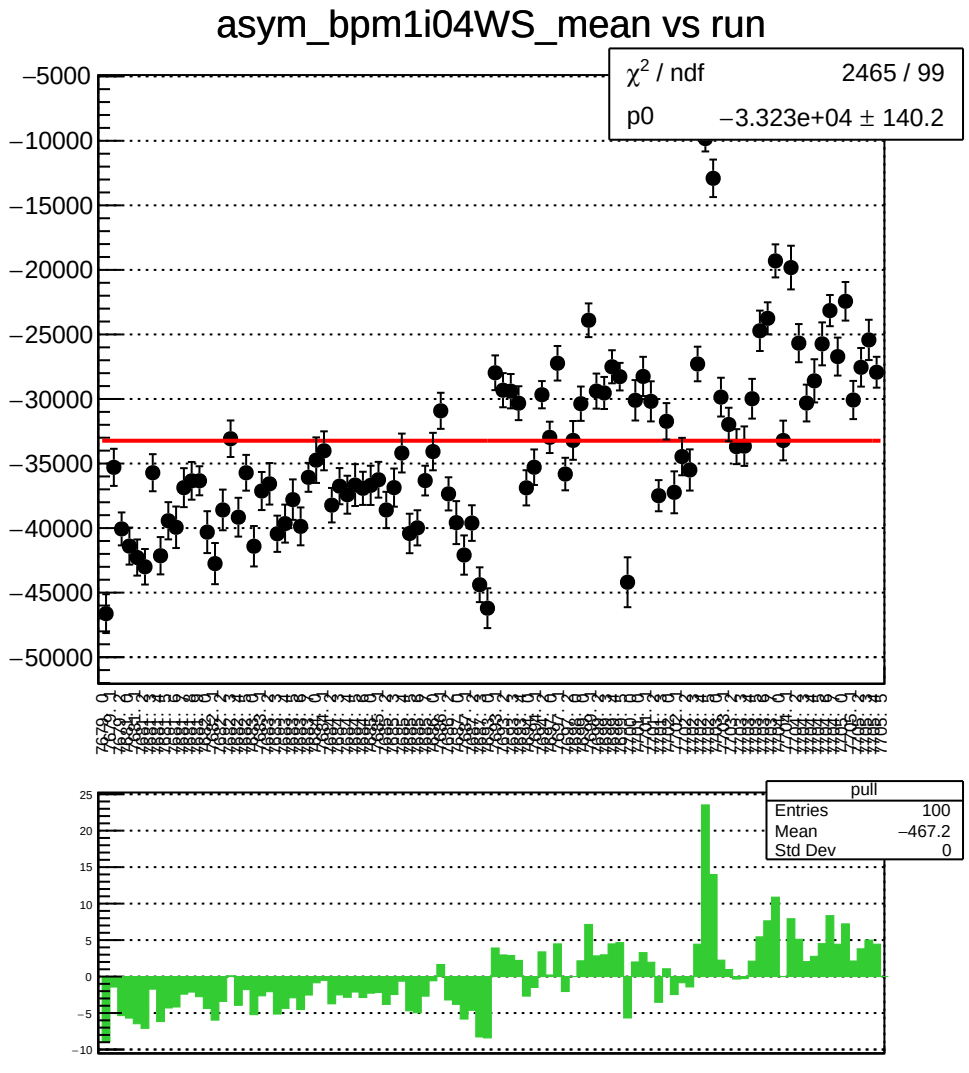

pull1D
Entries 100
Mean 0.08743
Std Dev 2.203

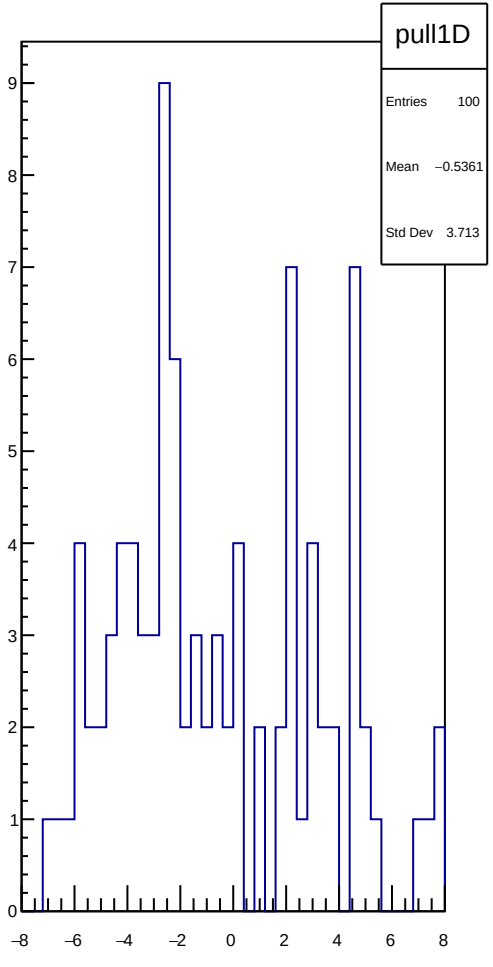

asym_bpm0i07WS_rms vs run
χ² / ndf 1.254e+04 / 99
p0 292.9 ± 0.2118
380
360
340
320
300
280
260
240

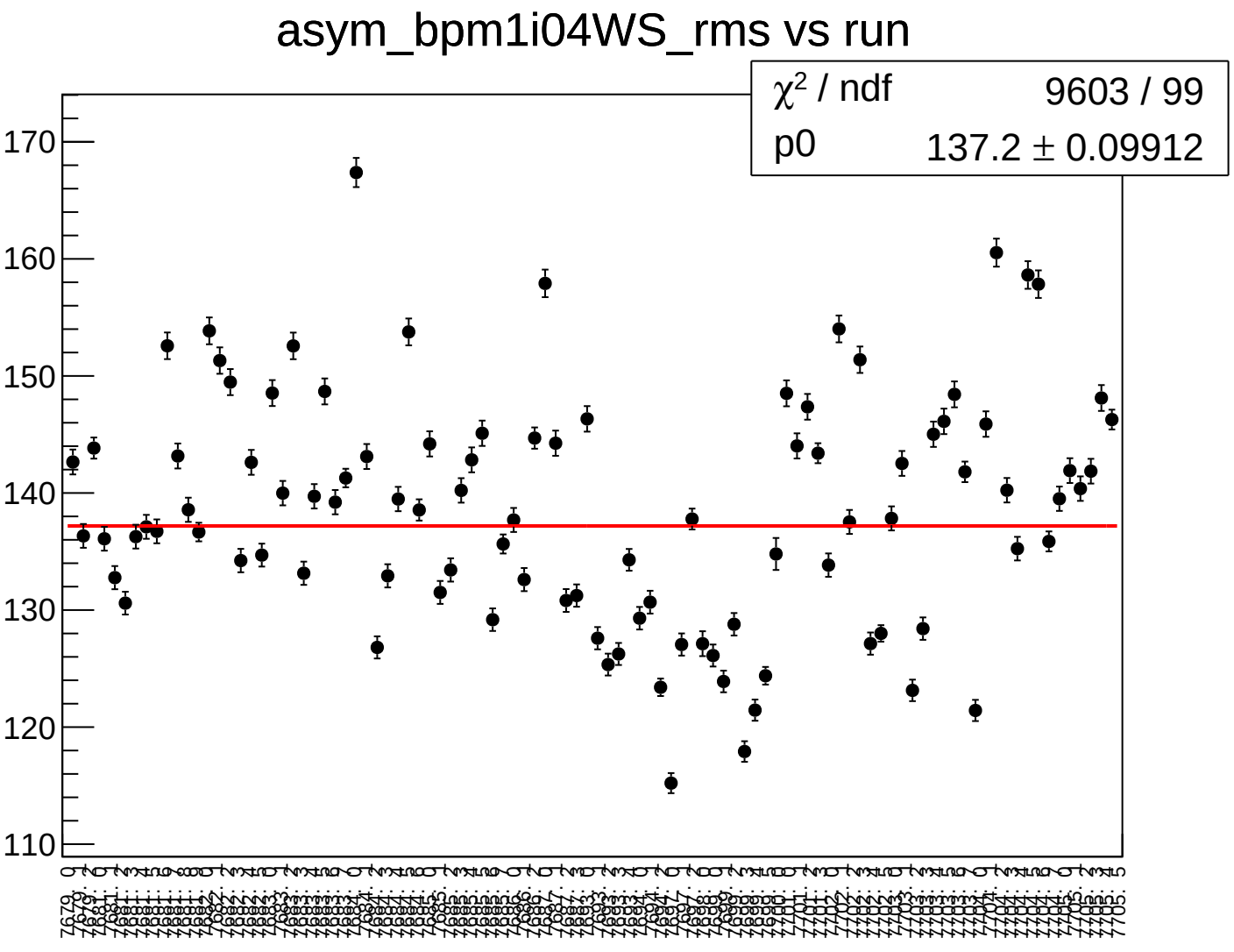

asym_bpm1i02WS_mean vs run
χ² / ndf 2365 / 99
p0 −3.289e+04 ± 143.5
pull
Entries 100
Mean −345
Std Dev 0

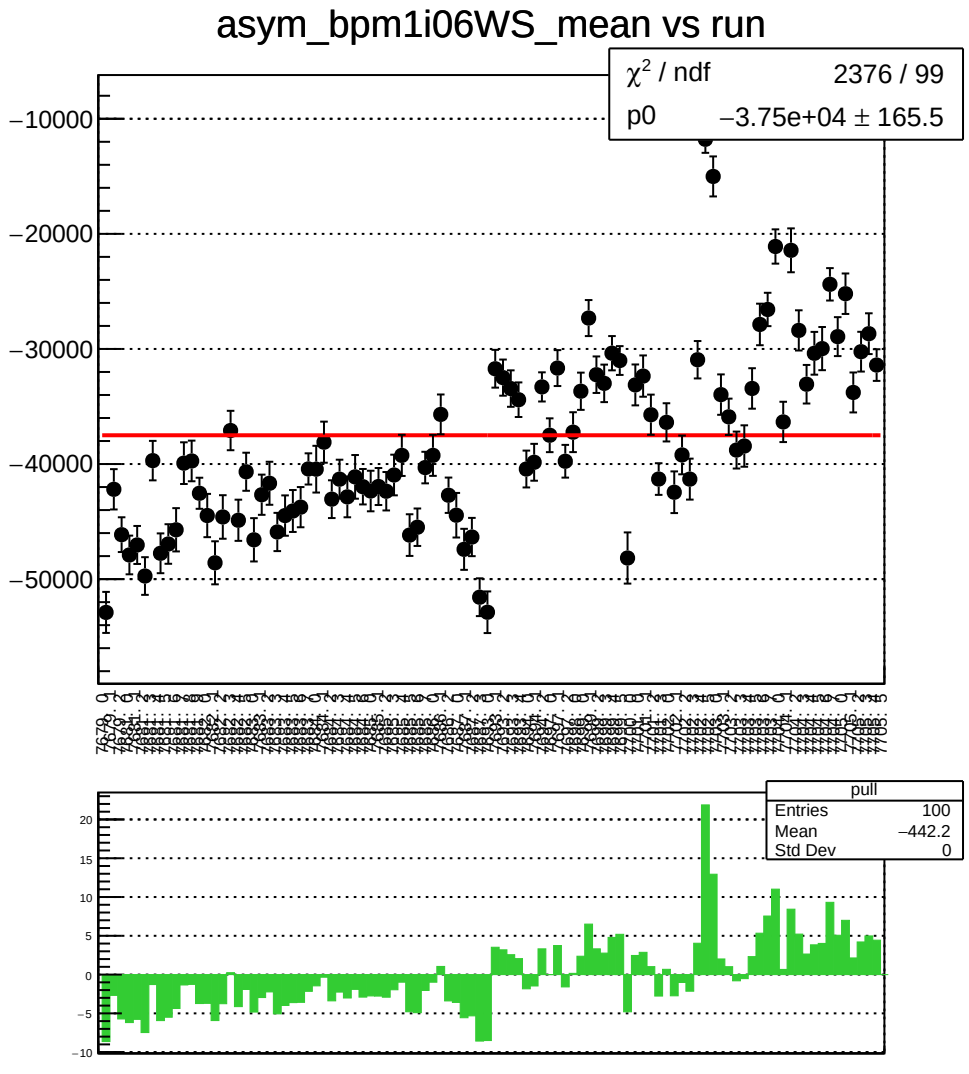

pull1D
Entries 100
Mean −0.6438
Std Dev 3.558

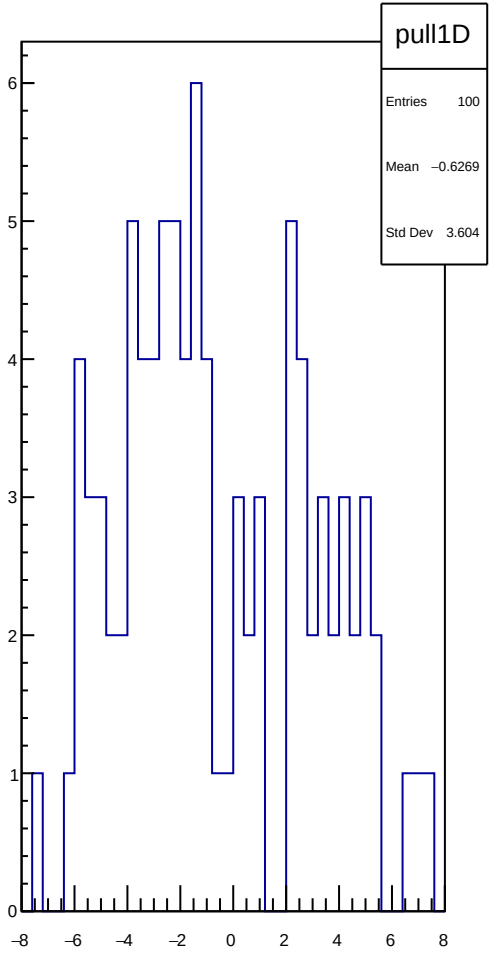

asym_bpm1i02WS_rms vs run
χ^2 / ndf 8391 / 99
p0 140.5 ± 0.1015
180
170
160
150
140
130
120

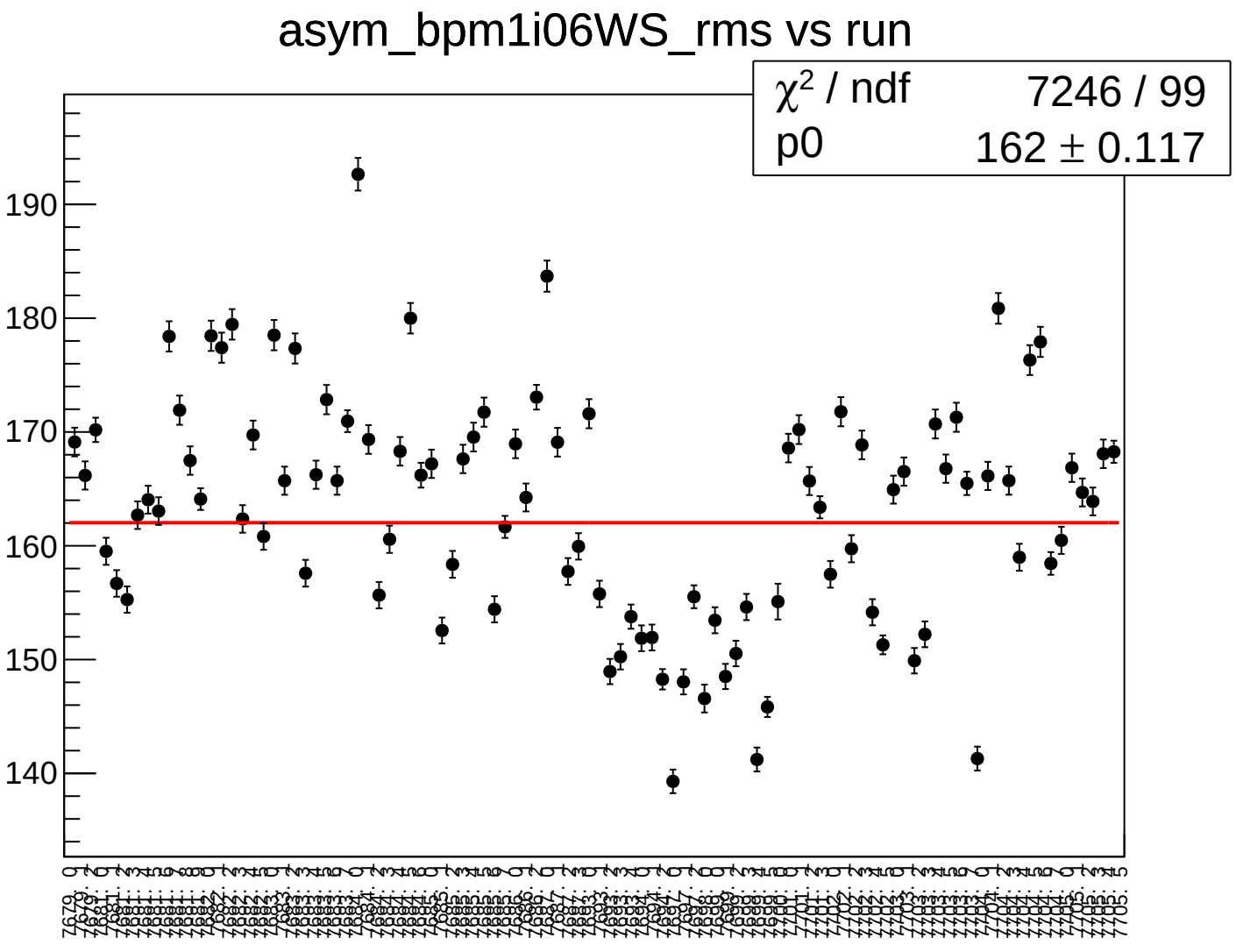

asym_bpm1i04WS_mean vs run
χ² / ndf 2465 / 99
p0 −3.323e+04 ± 140.2
pull
Entries 100
Mean −467.2
Std Dev 0

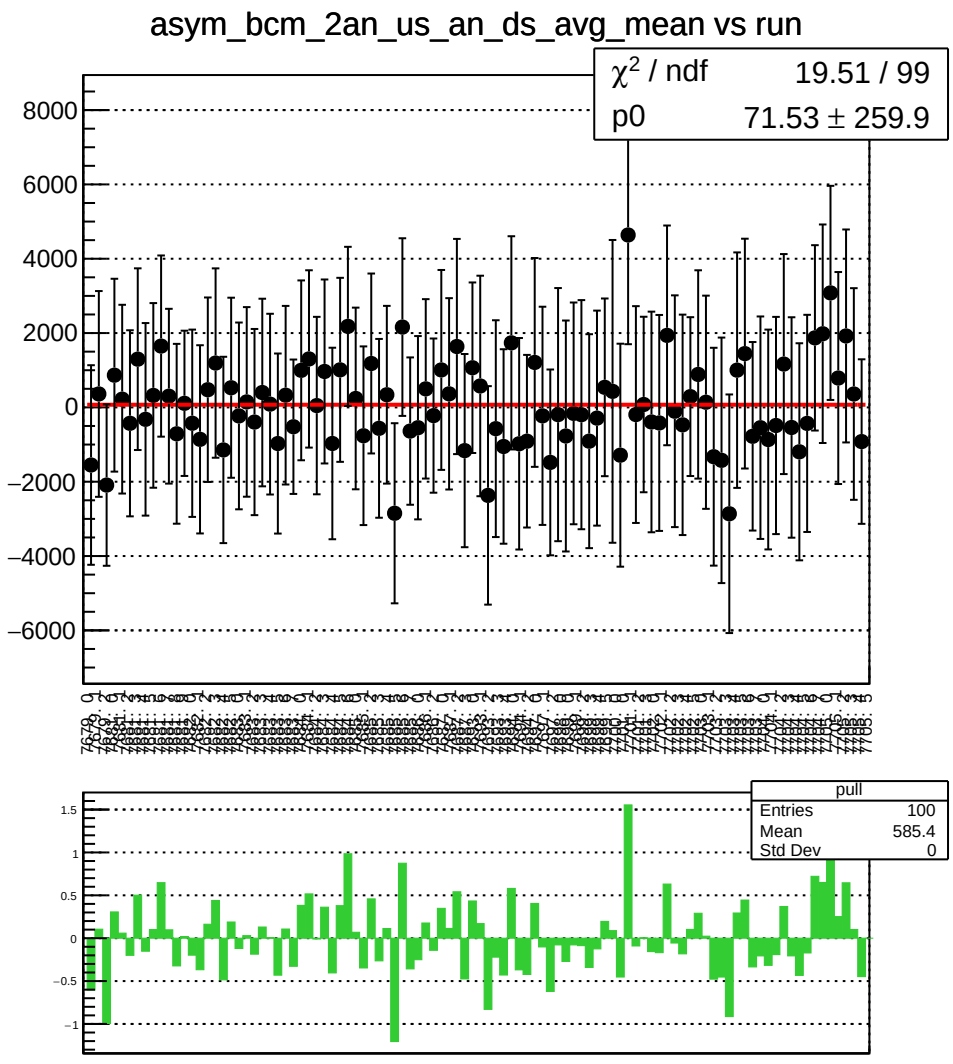

pull1D
Entries 100
Mean −0.5361
Std Dev 3.713

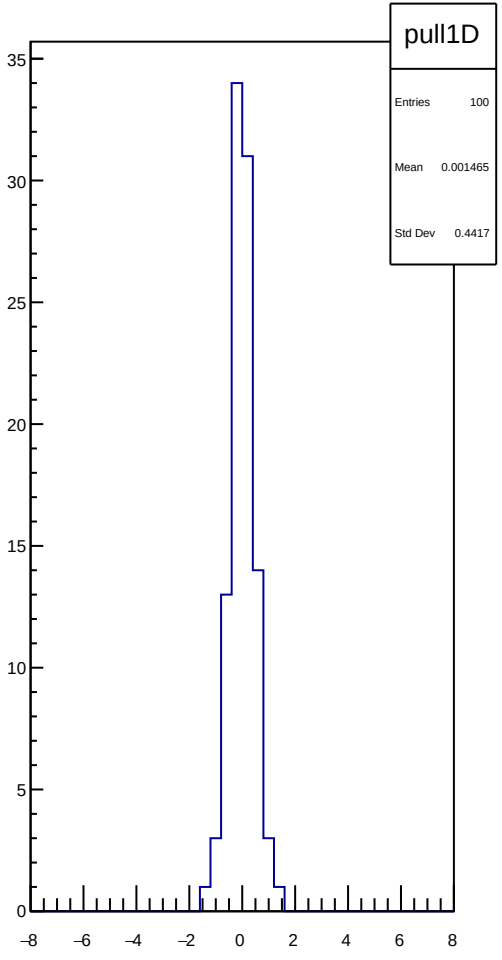

asym_bpm1i04WS_rms vs run
χ^2 / ndf 9603 / 99
p0 137.2 ± 0.09912
170
160
150
140
130
120
110

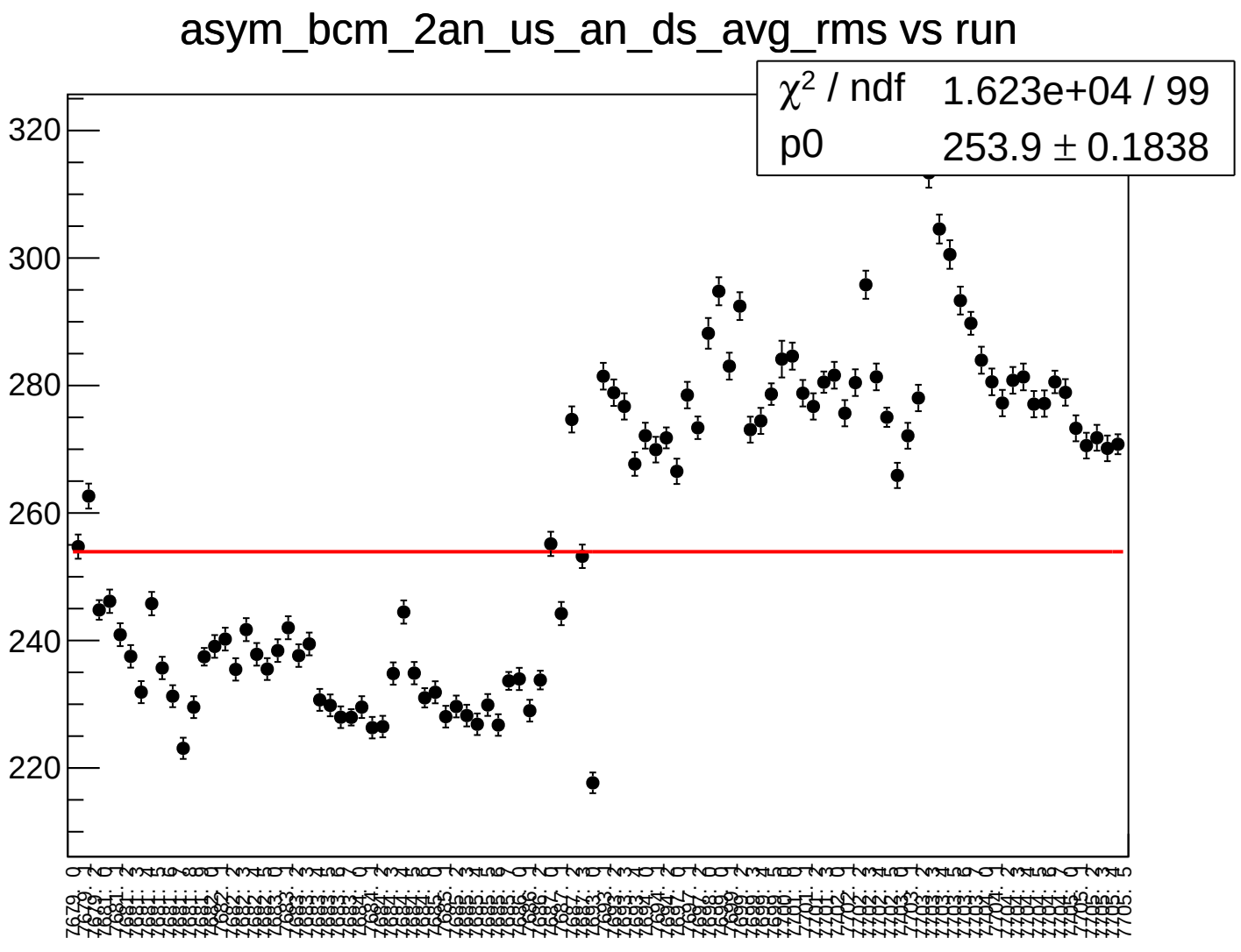

asym_bpm1i06WS_mean vs run
χ² / ndf 2376 / 99
p0 −3.75e+04 ± 165.5
−10000
−20000
−30000
−40000
−50000
pull
Entries 100
Mean −442.2
Std Dev 0
20
15
10
5
0
−5
−10

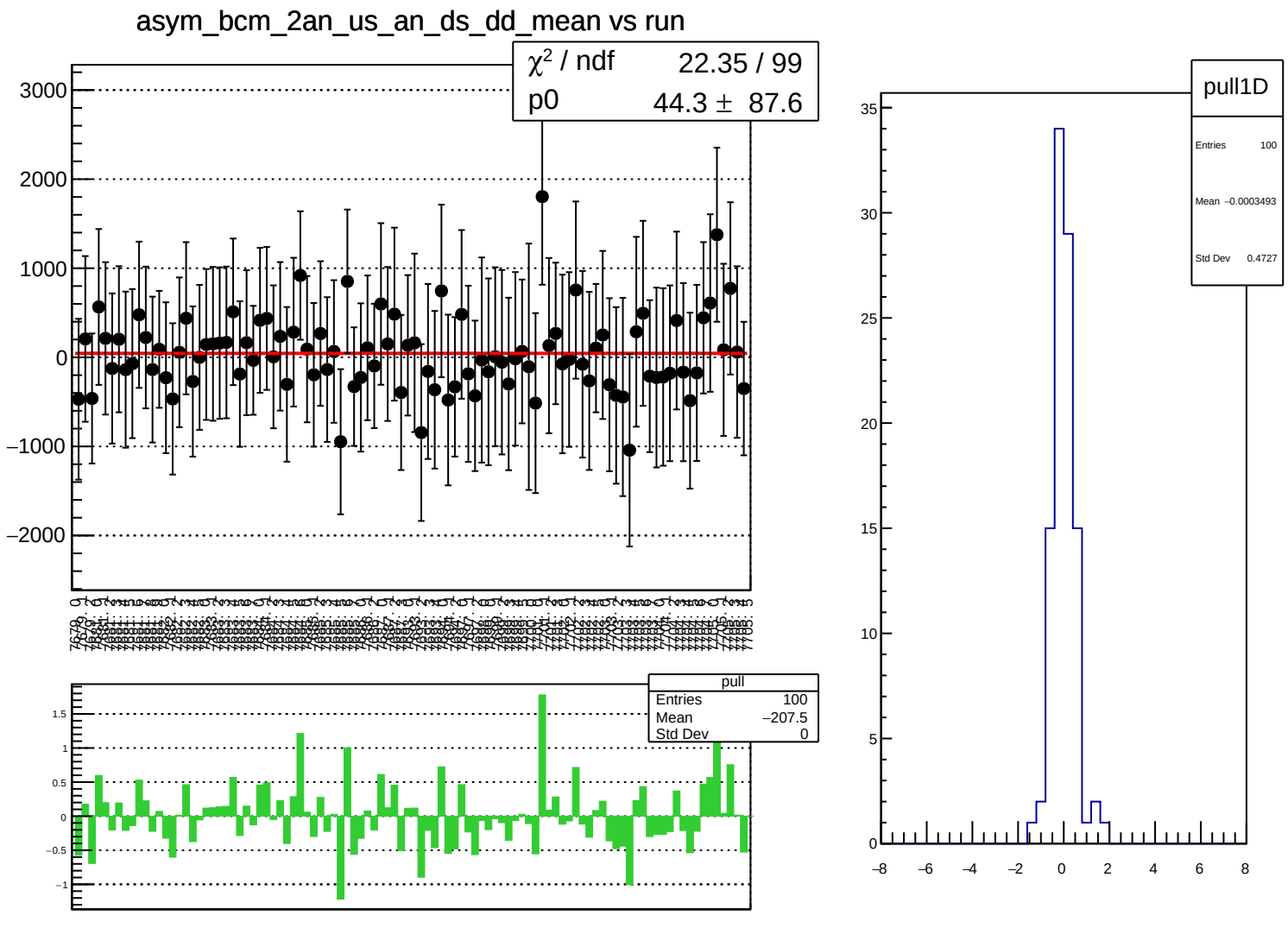

pull1D
Entries 100
Mean −0.6269
Std Dev 3.604
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

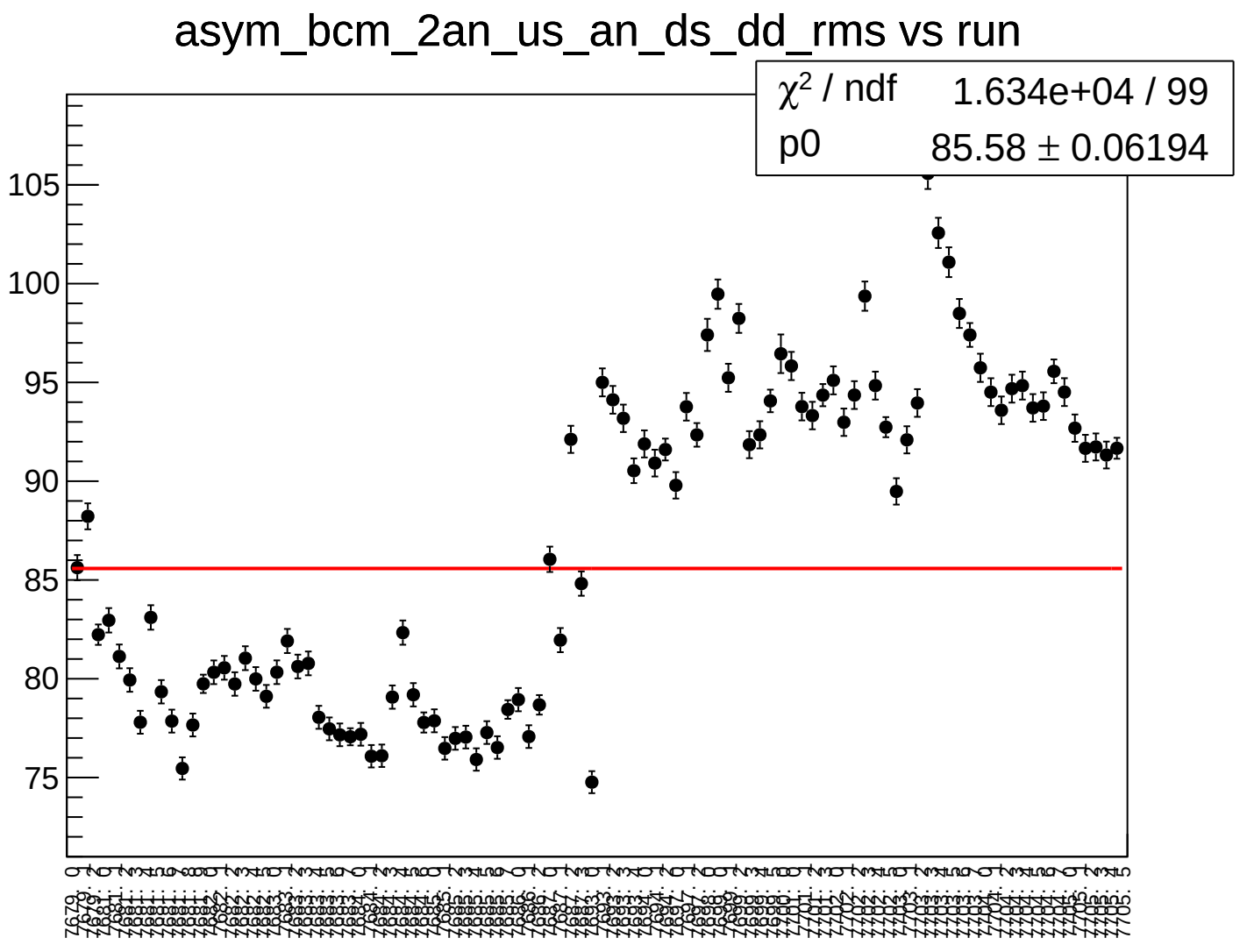

asym_bpm1i06WS_rms vs run
χ² / ndf 7246 / 99
p0 162 ± 0.117
190
180
170
160
150
140

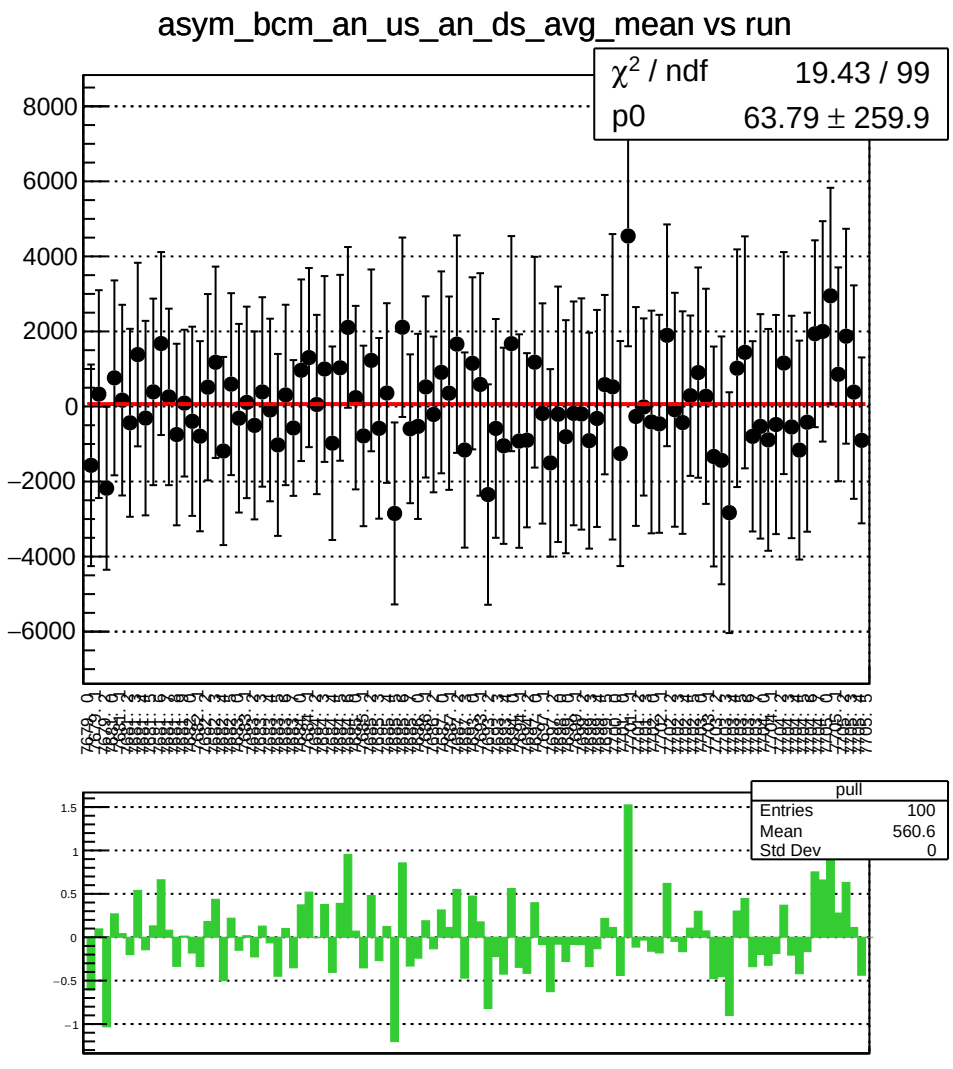

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 19.51 / 99
p0 71.53 ± 259.9
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 585.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1

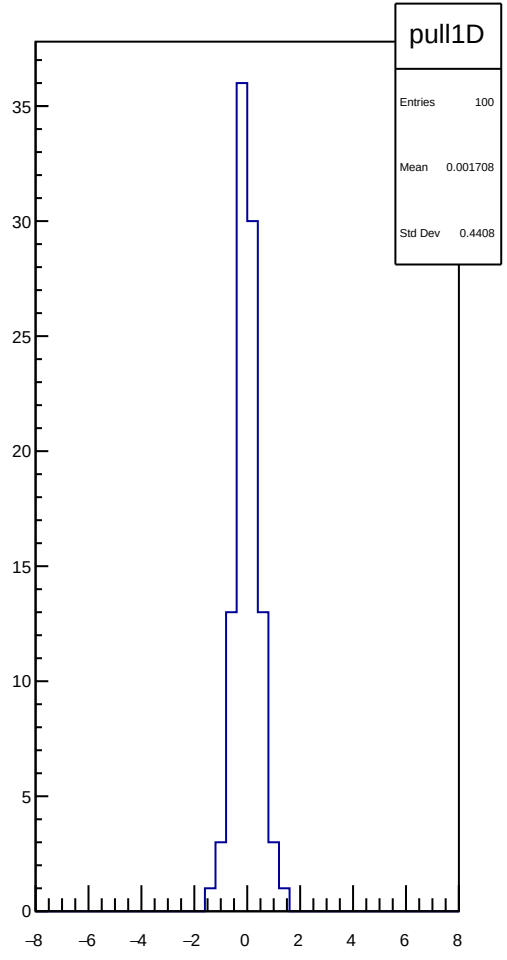

pull1D
Entries 100
Mean 0.001465
Std Dev 0.4417
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

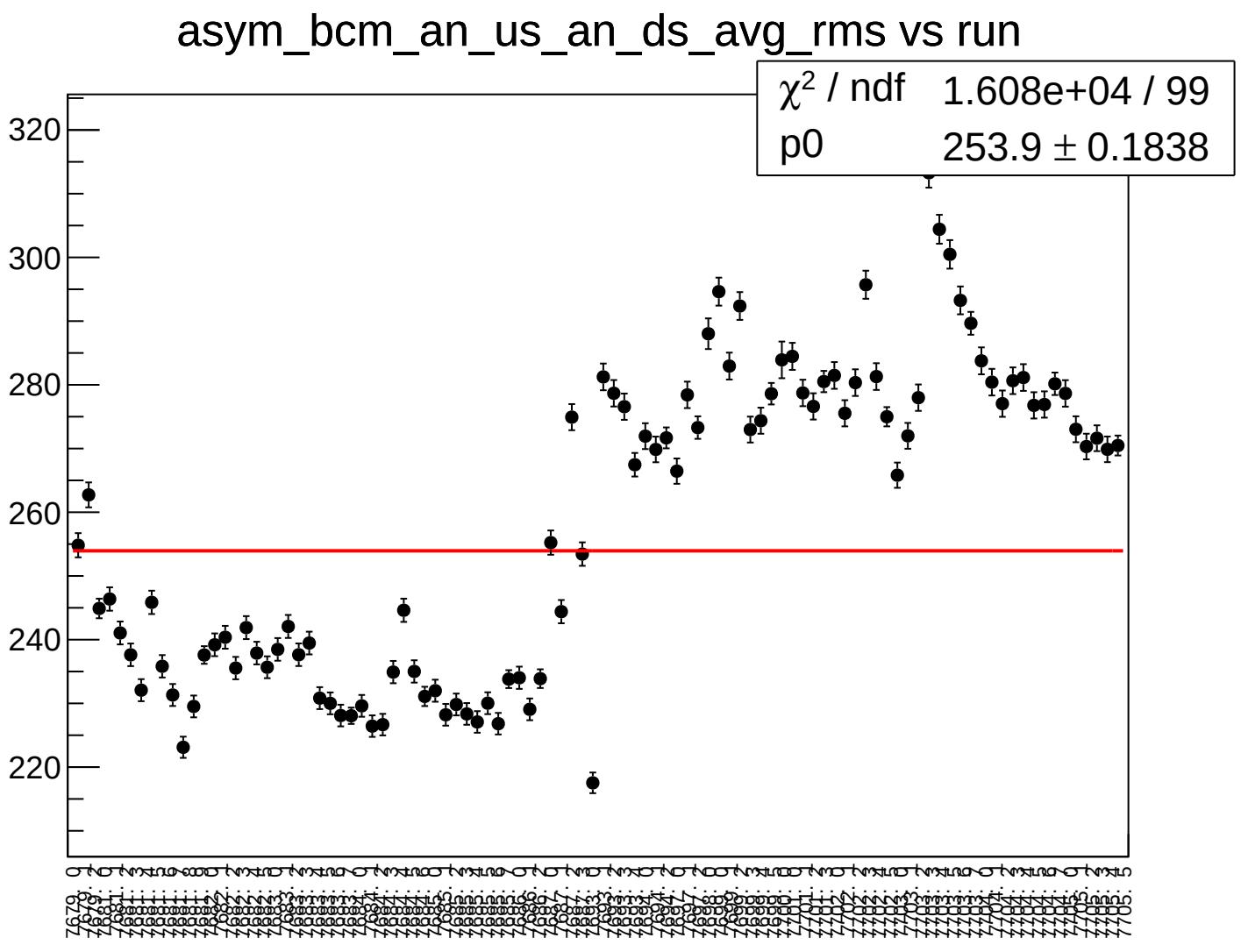

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 1.623e+04 / 99
p0 253.9 ± 0.1838
320
300
280
260
240
220

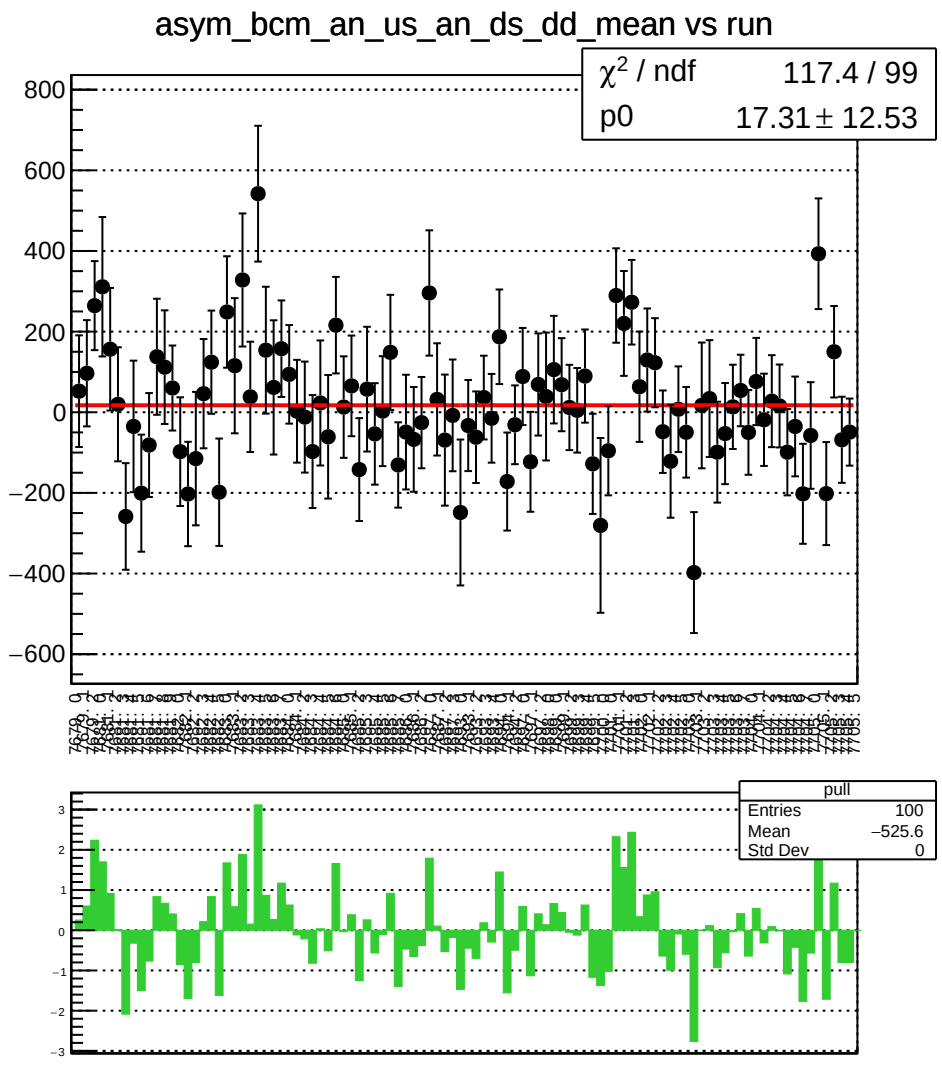

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 22.35 / 99
p0 44.3 ± 87.6
3000
2000
1000
0
−1000
−2000
pull
Entries 100
Mean −207.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 100
Mean −0.0003493
Std Dev 0.4727
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

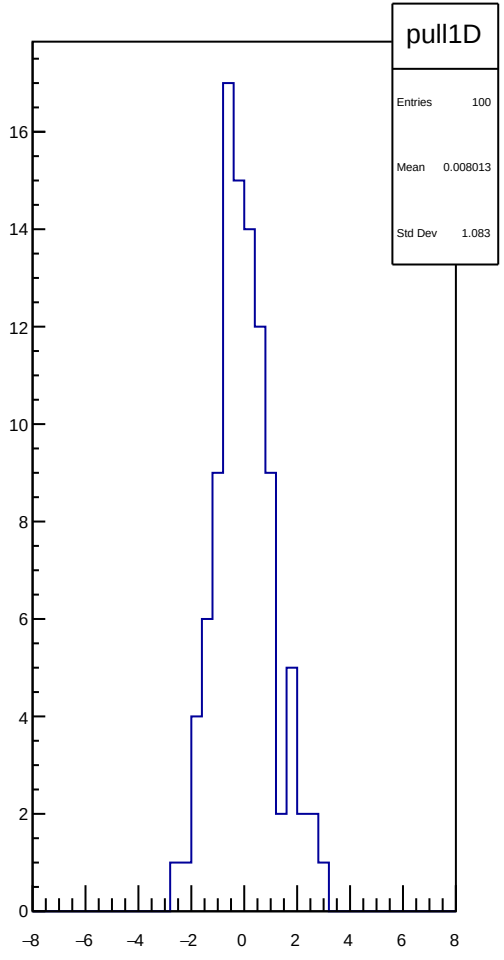

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 1.634e+04 / 99
p0 85.58 ± 0.06194
105
100
95
90
85
80
75

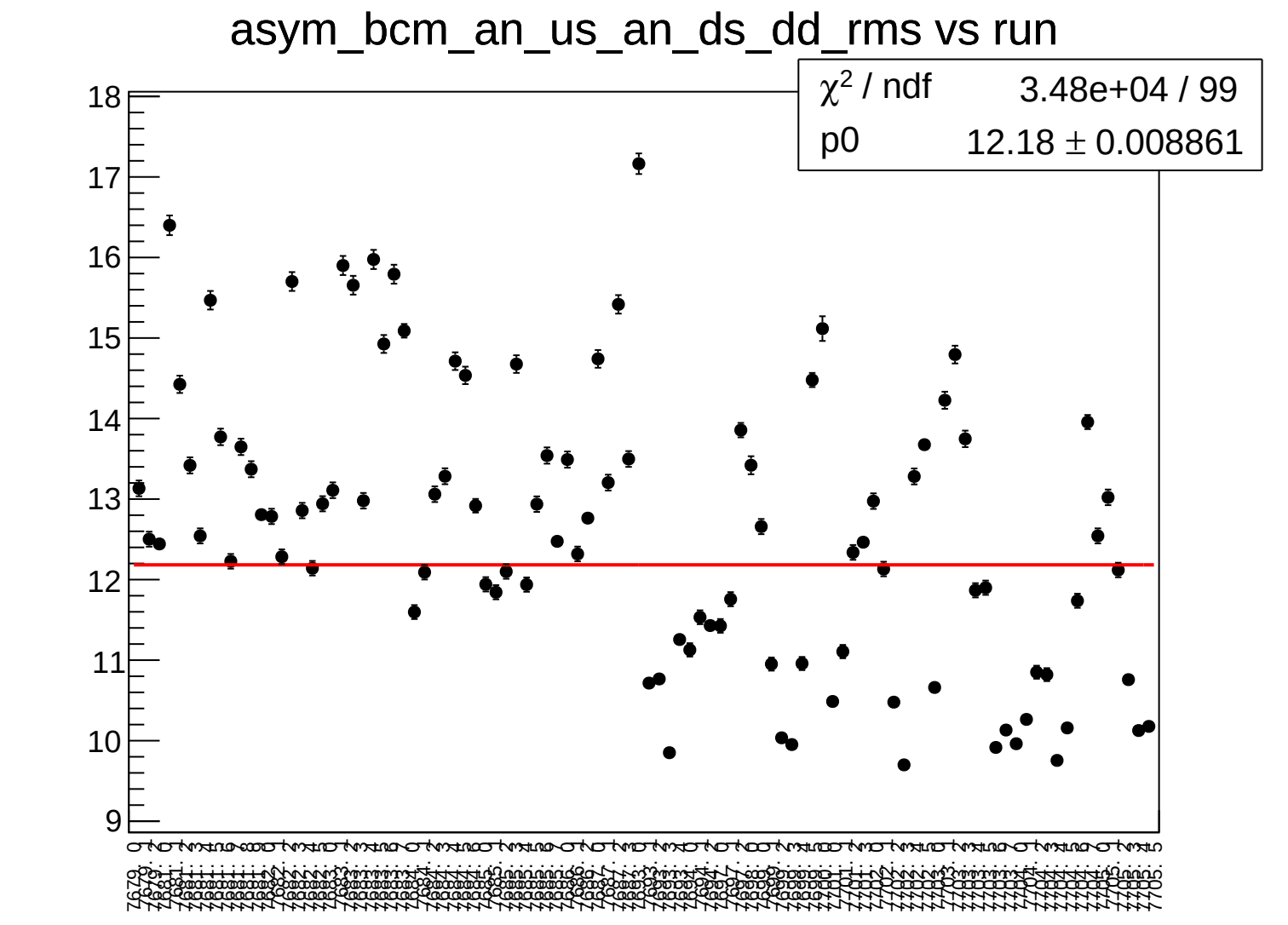

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 19.43 / 99
p0 63.79 ± 259.9
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 560.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1

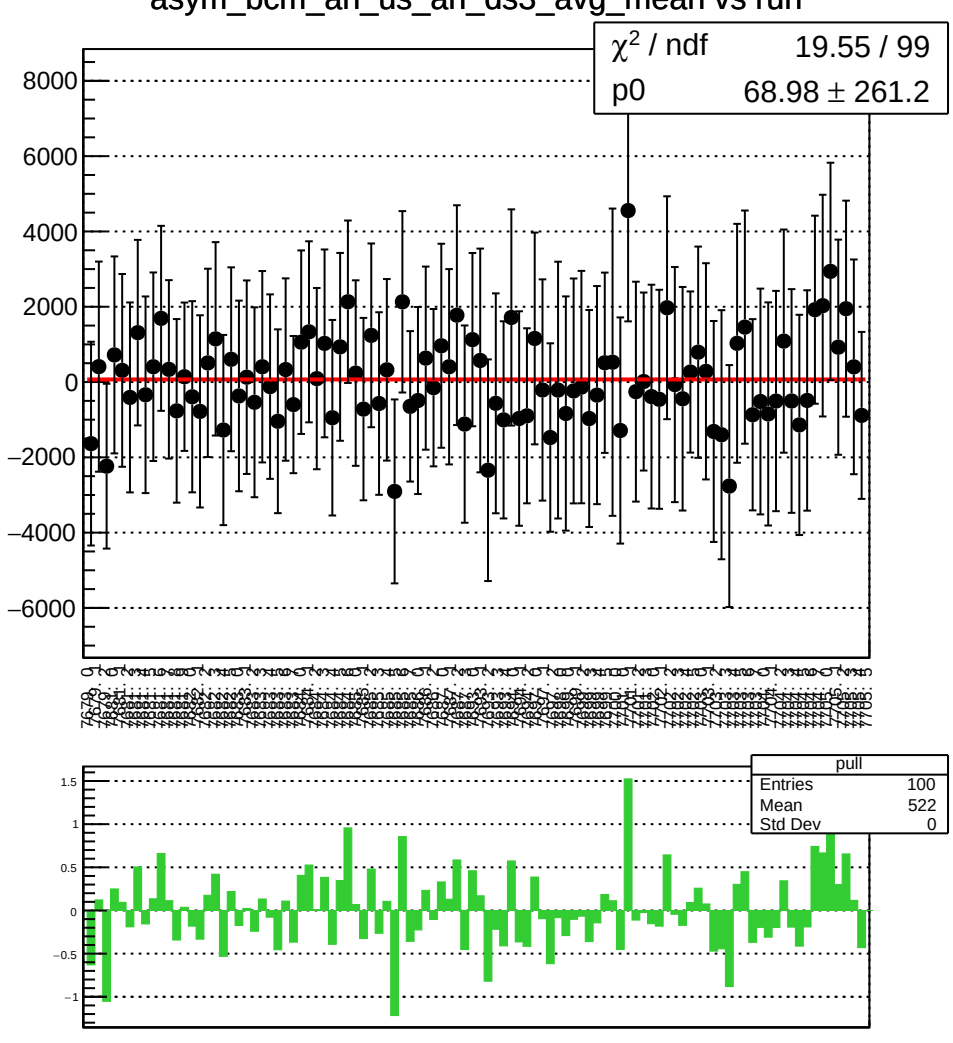

pull1D
Entries 100
Mean 0.001708
Std Dev 0.4408
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

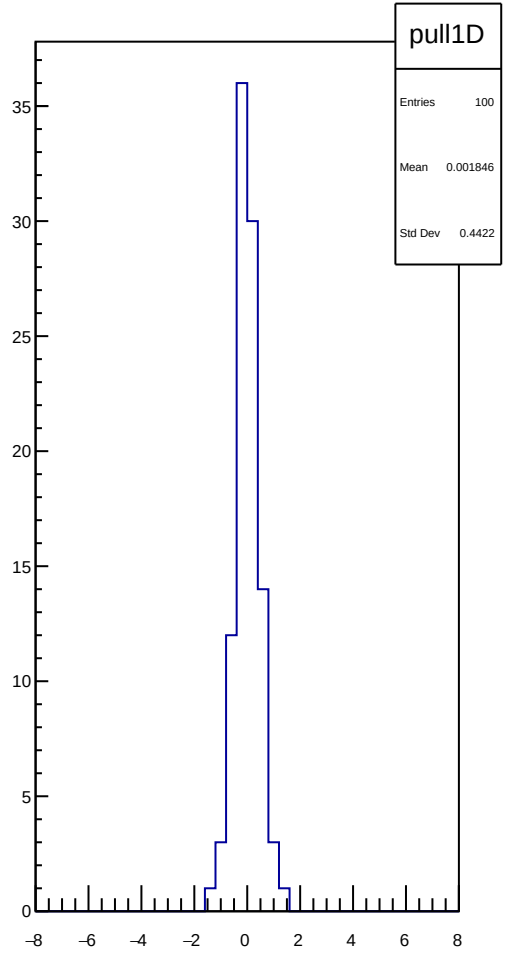

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 1.608e+04 / 99
p0 253.9 ± 0.1838
320
300
280
260
240
220

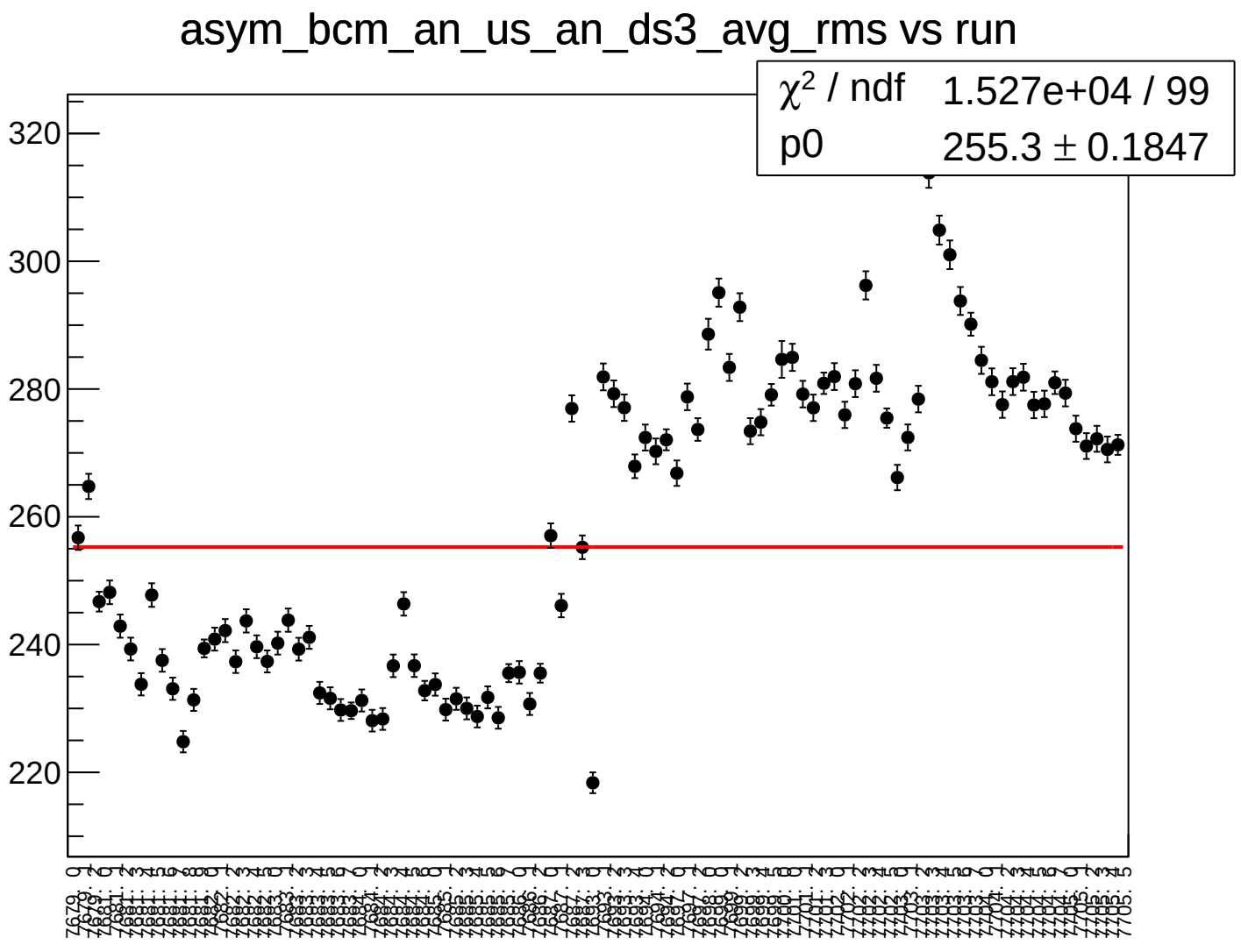

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 117.4 / 99
p0 17.31 ± 12.53
pull
Entries 100
Mean −525.6
Std Dev 0

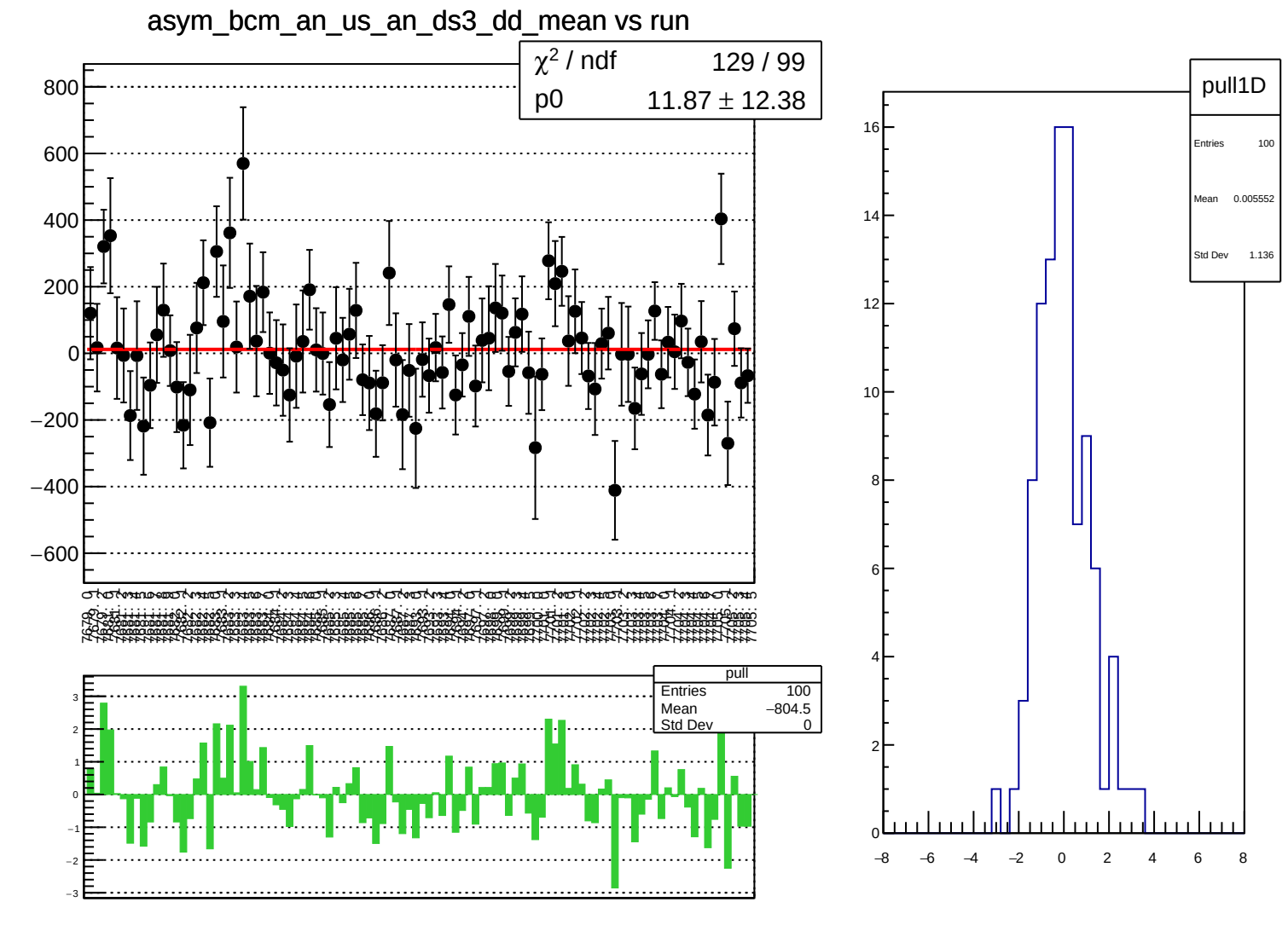

pull1D
Entries 100
Mean 0.008013
Std Dev 1.083


asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 3.48e+04 / 99
p0 12.18 ± 0.008861
18
17
16
15
14
13
12
11
10
9

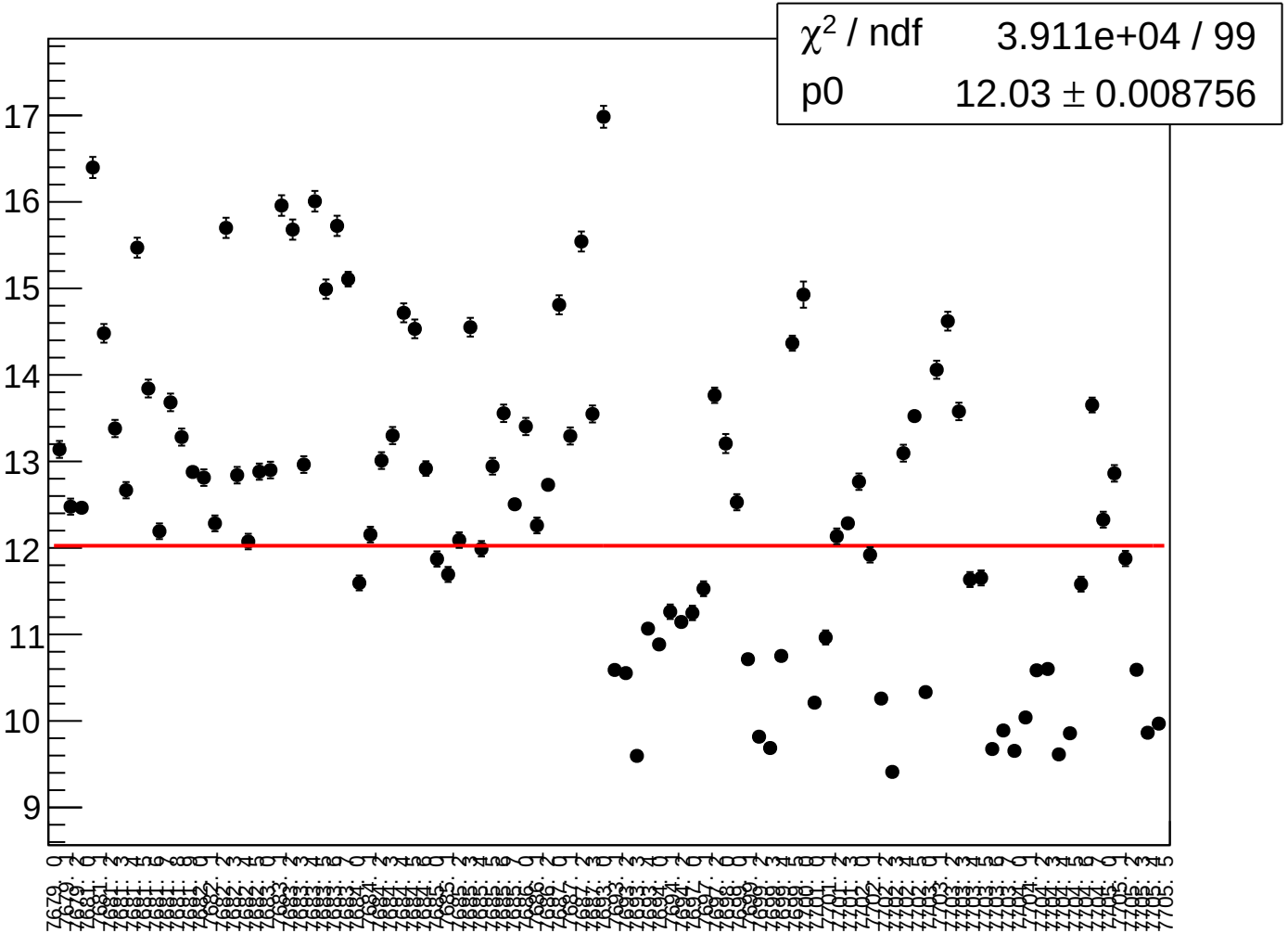

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 19.55 / 99
p0 68.98 ± 261.2
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 522
Std Dev 0
1.5
1
0.5
0
−0.5
−1

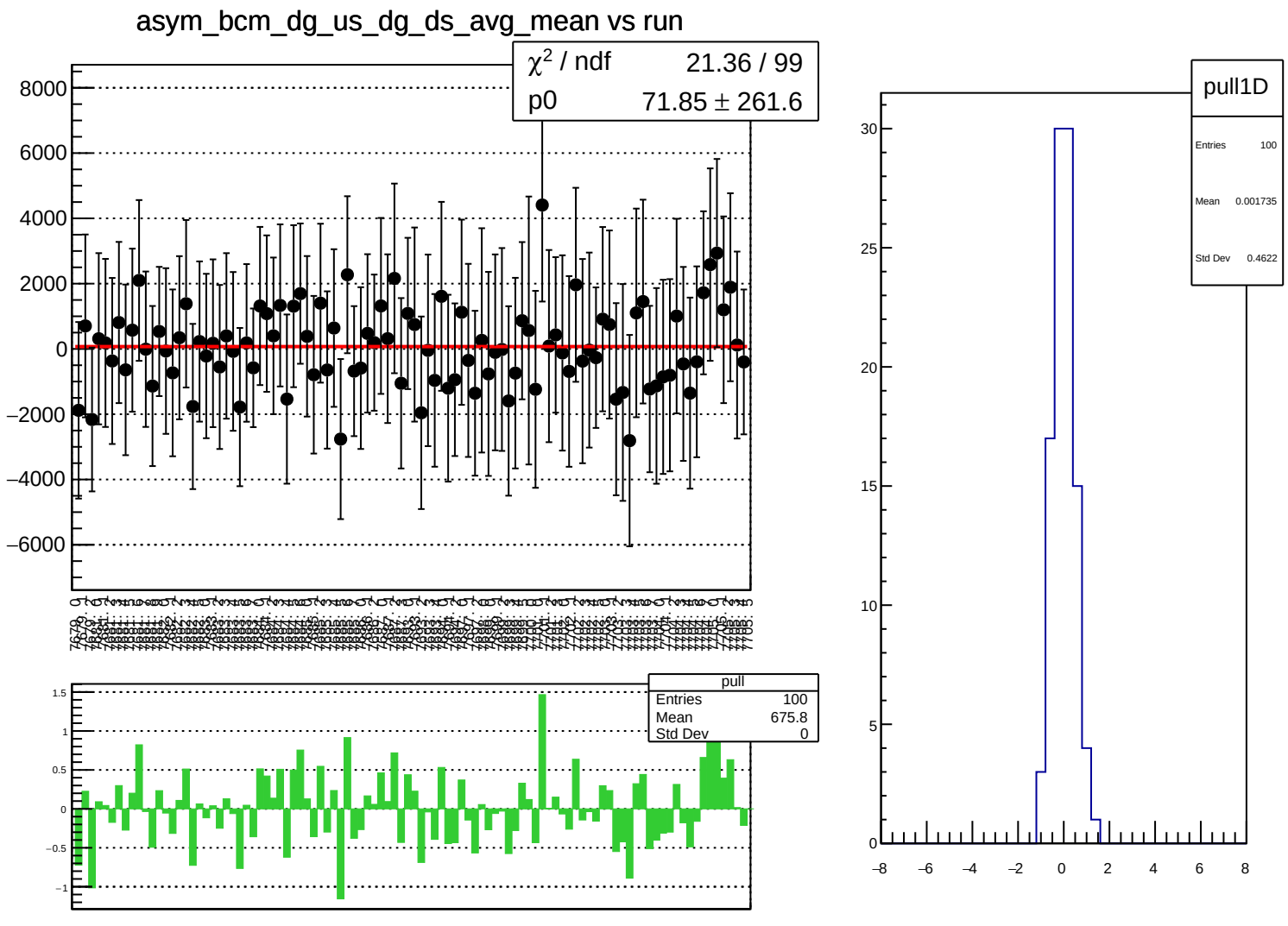

pull1D
Entries 100
Mean 0.001846
Std Dev 0.4422
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

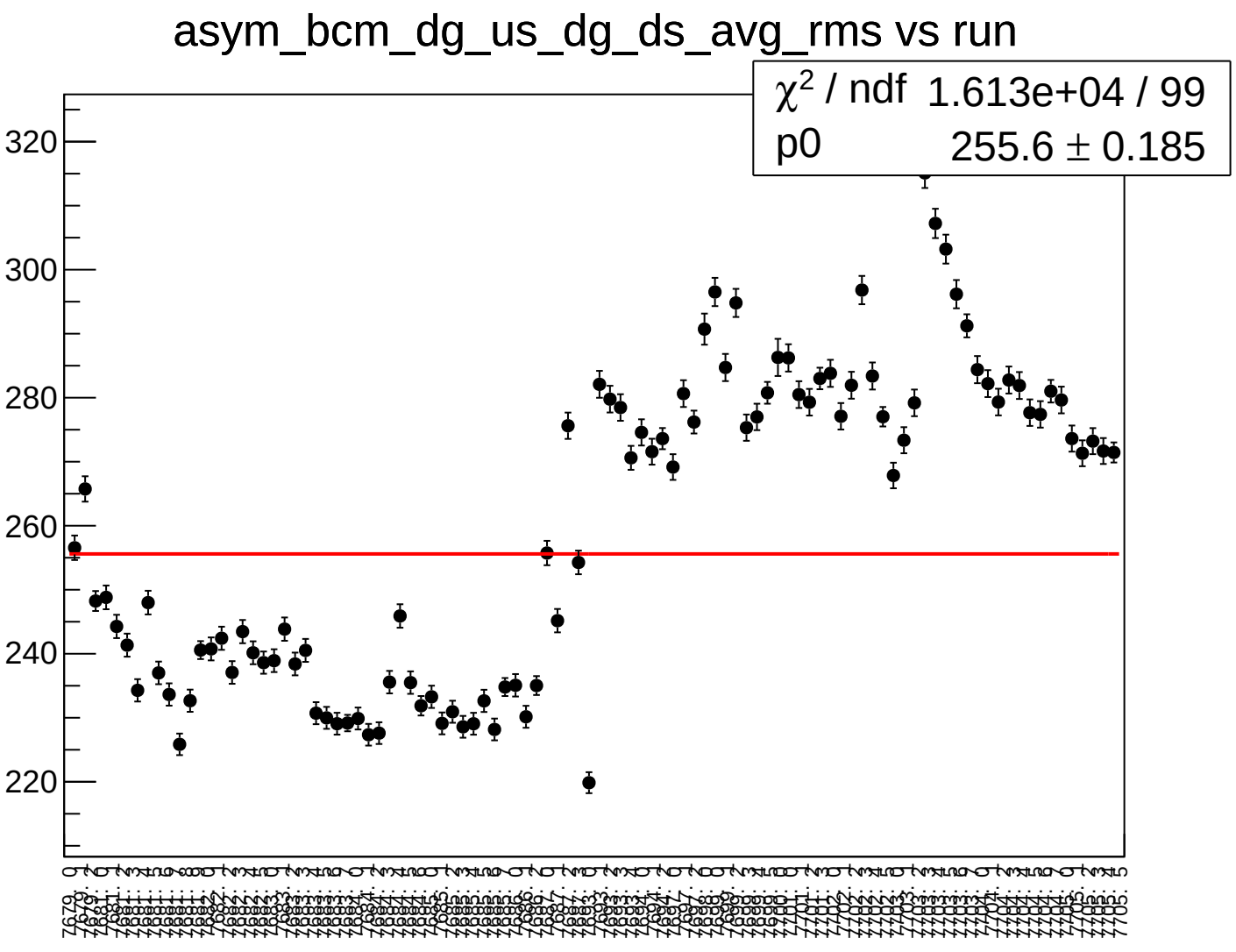

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 1.527e+04 / 99
p0 255.3 ± 0.1847
320
300
280
260
240
220

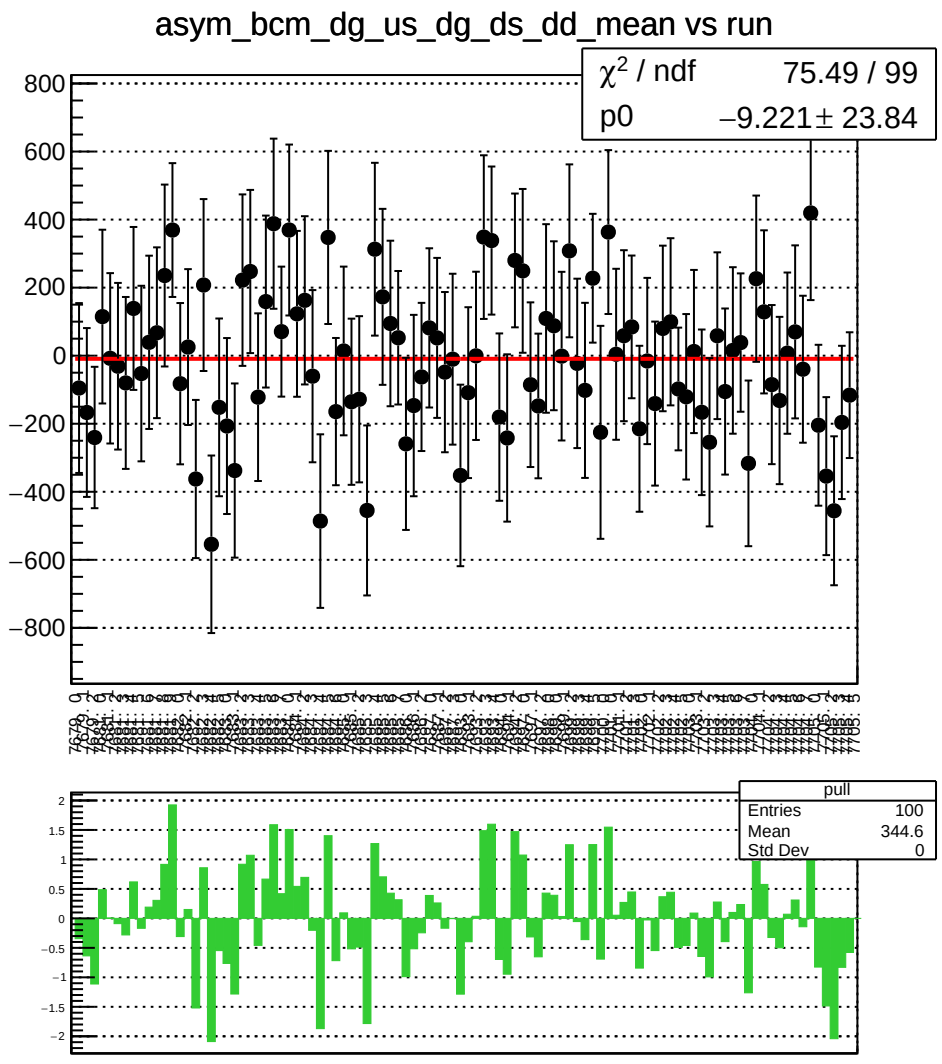

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 129 / 99
p0 11.87 ± 12.38
800
600
400
200
0
−200
−400
−600
pull
Entries 100
Mean −804.5
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean 0.005552
Std Dev 1.136
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

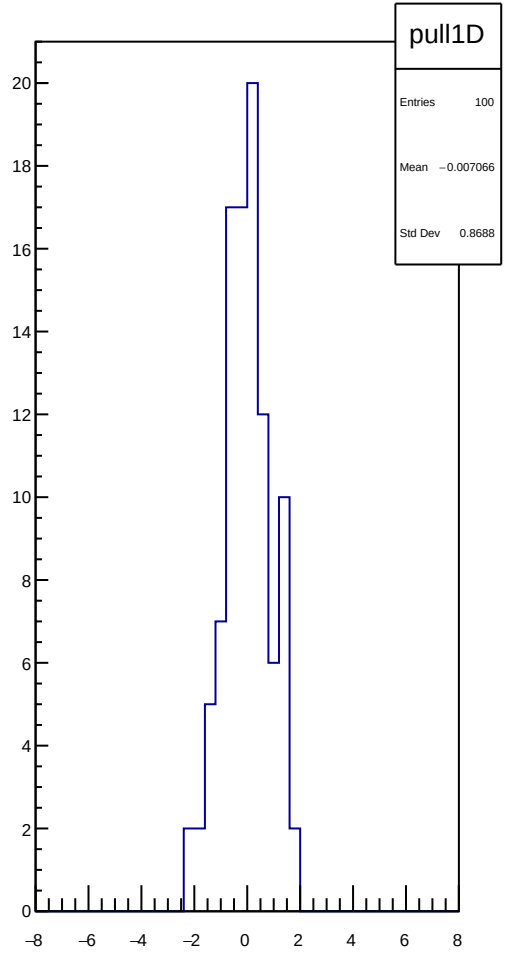
asym_bcm_an_us_an_ds3_dd_rms vs run

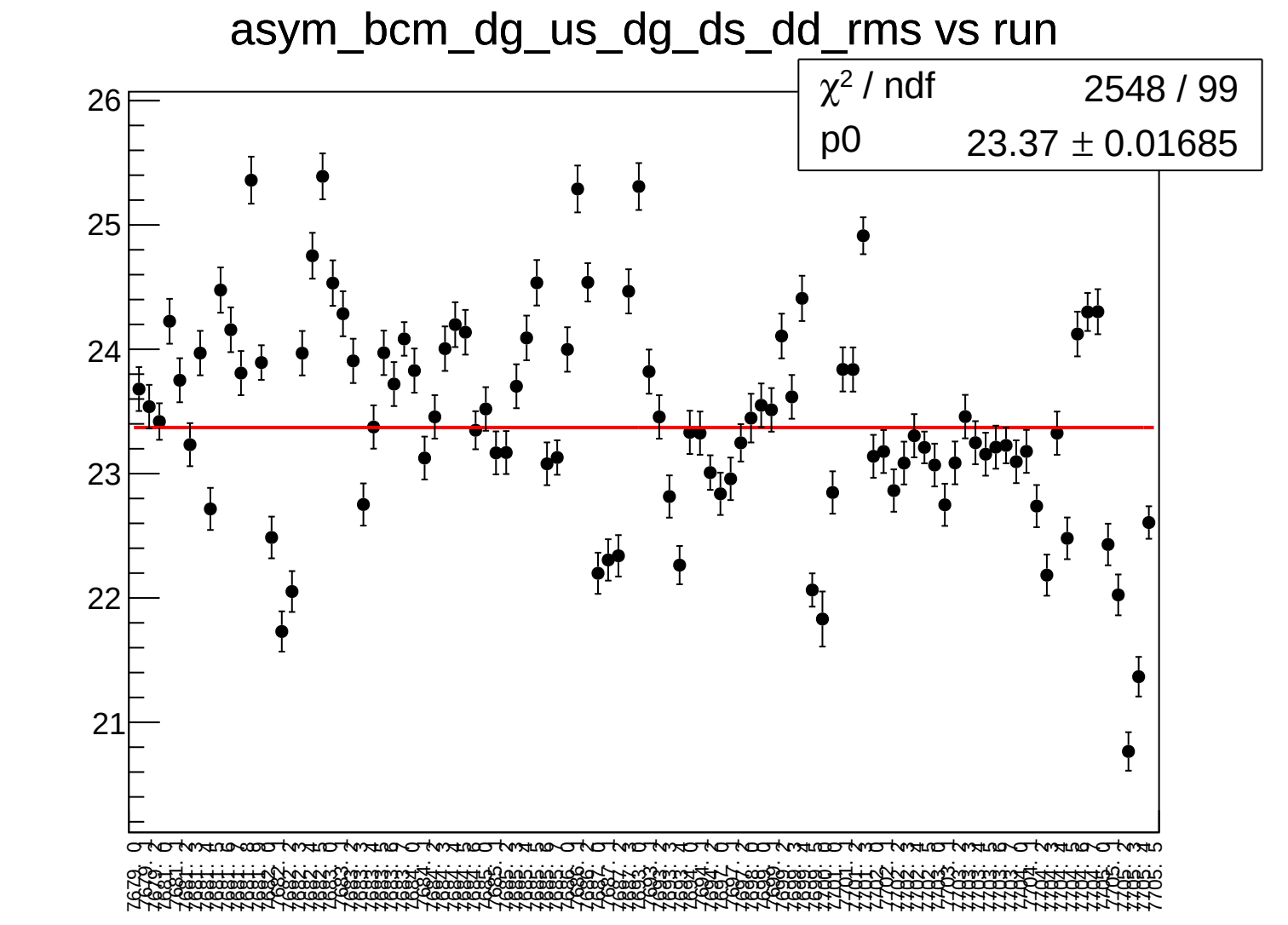


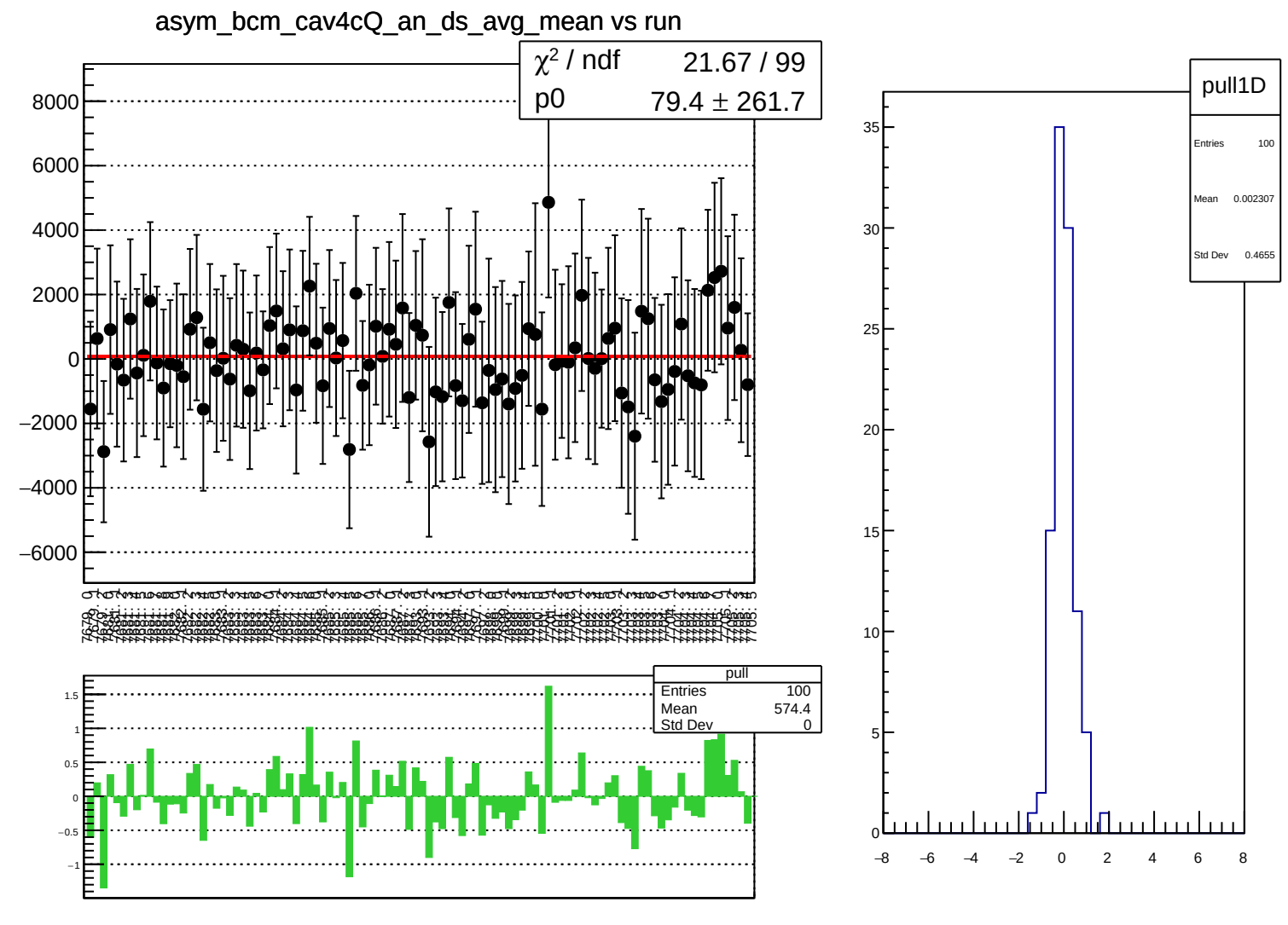

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 21.36 / 99
p0 71.85 ± 261.6
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 675.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 100
Mean 0.001735
Std Dev 0.4622
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

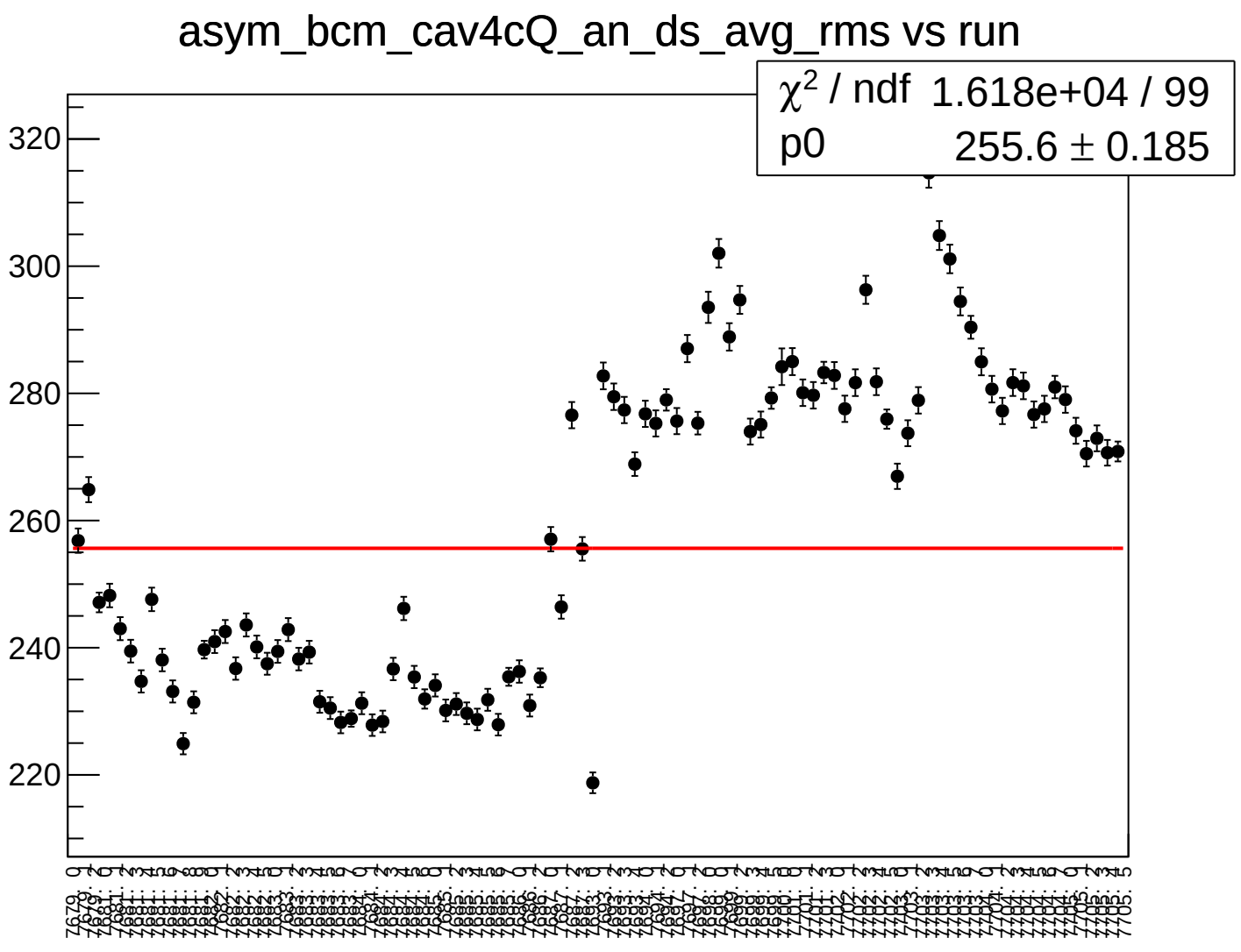

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 1.613e+04 / 99
p0 255.6 ± 0.185
320
300
280
260
240
220

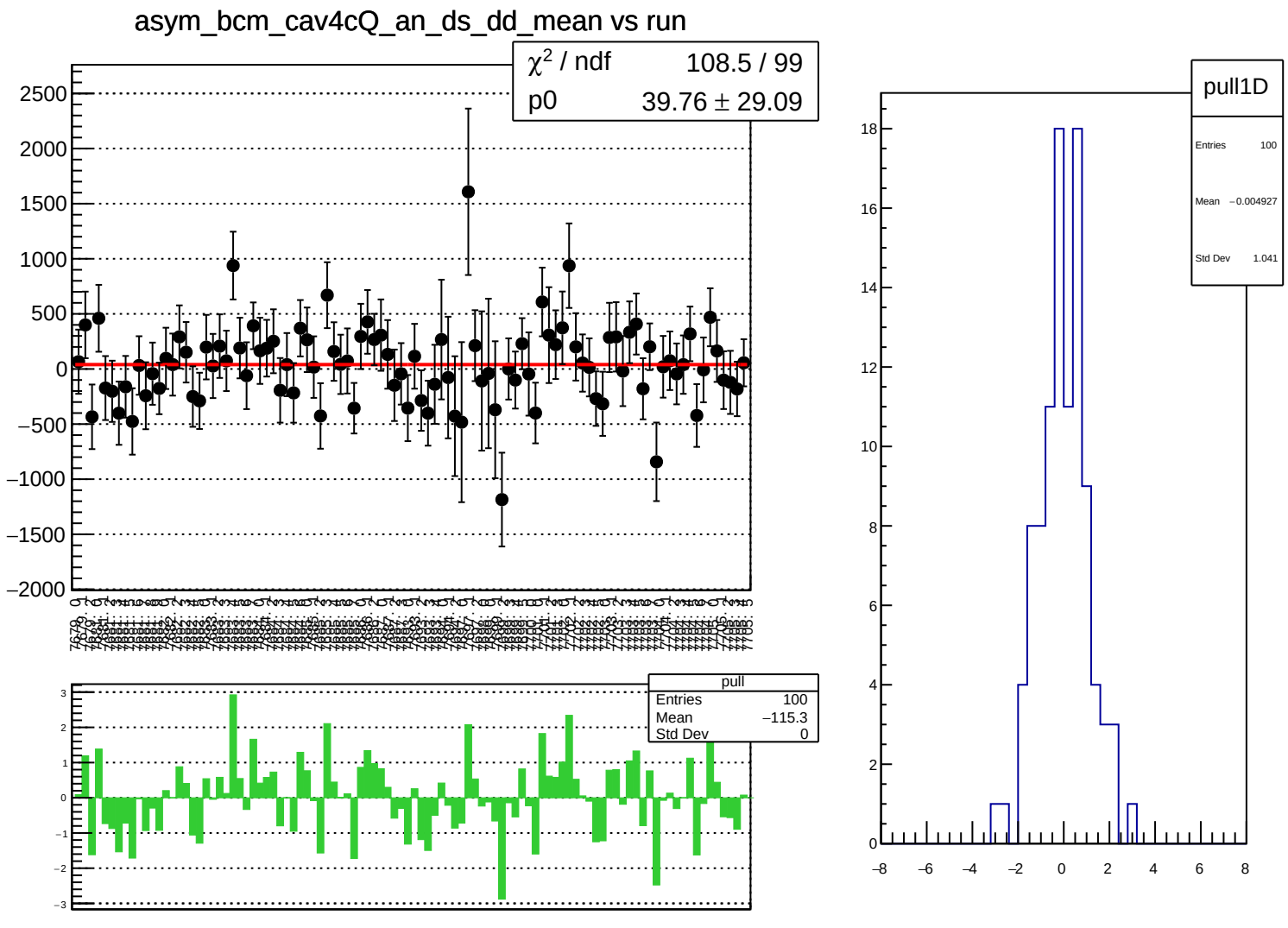

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 75.49 / 99
p0 −9.221 ± 23.84
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 100
Mean 344.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

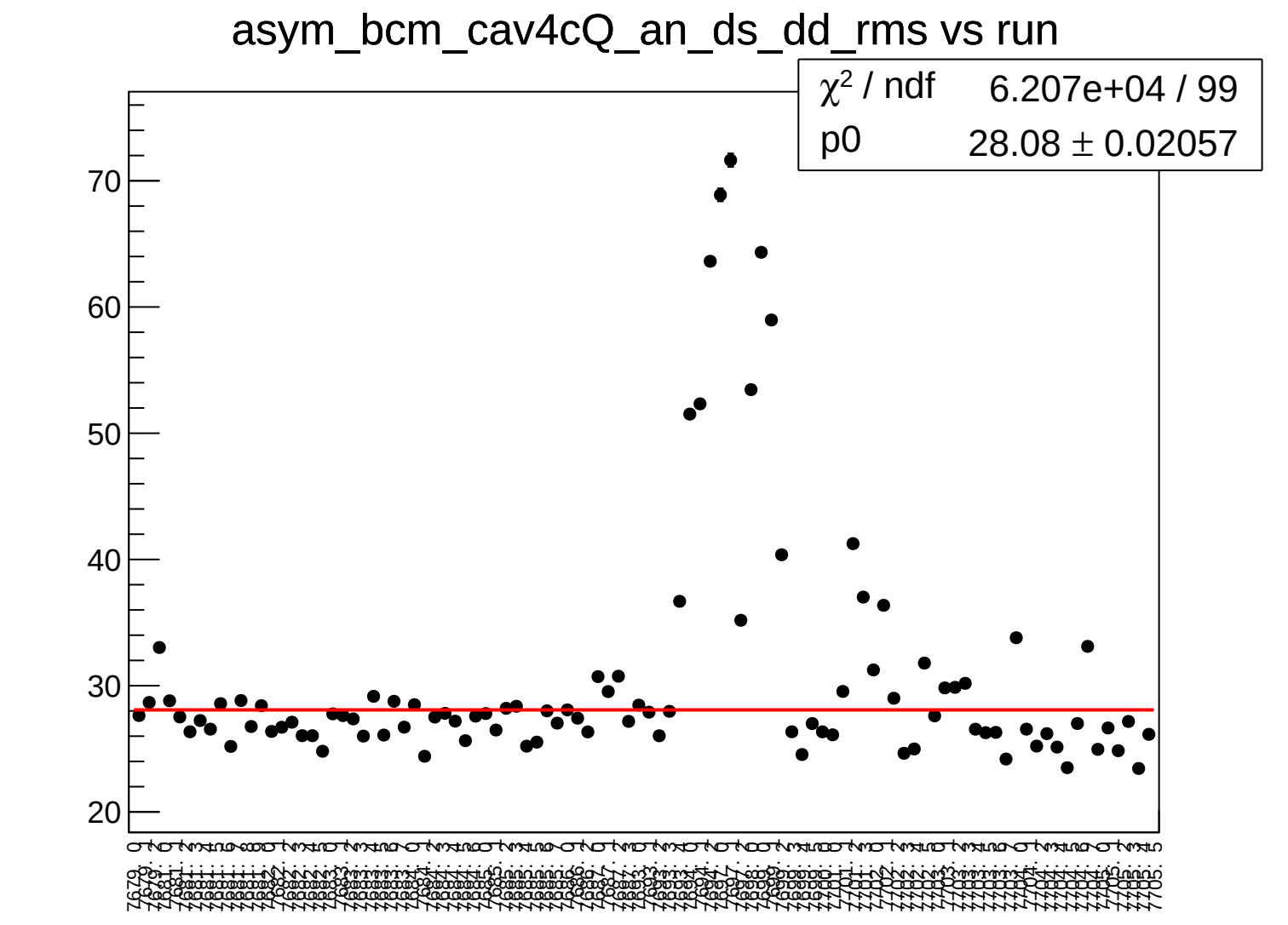

pull1D
Entries 100
Mean −0.007066
Std Dev 0.8688
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

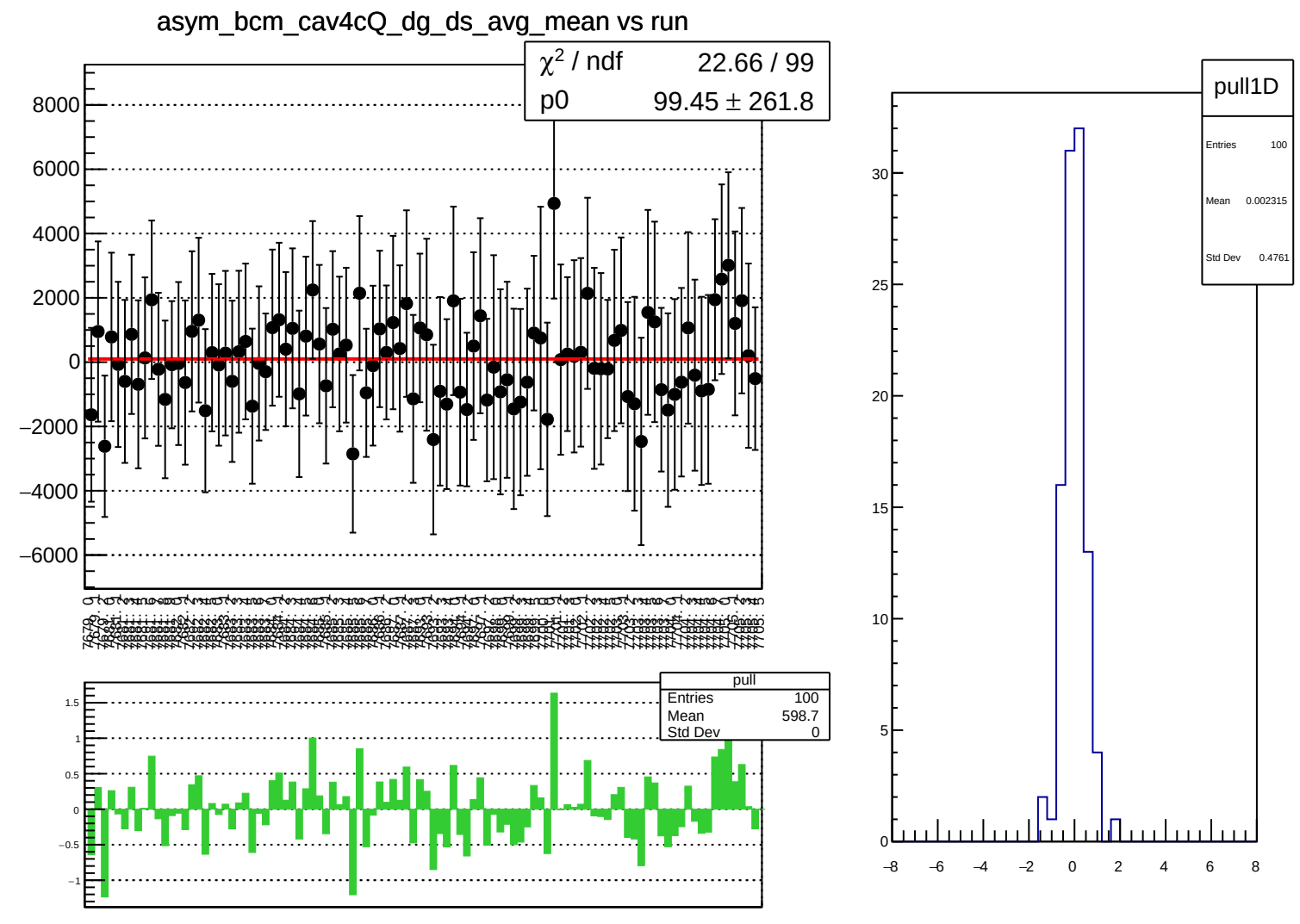

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 2548 / 99
p0 23.37 ± 0.01685
26
25
24
23
22
21

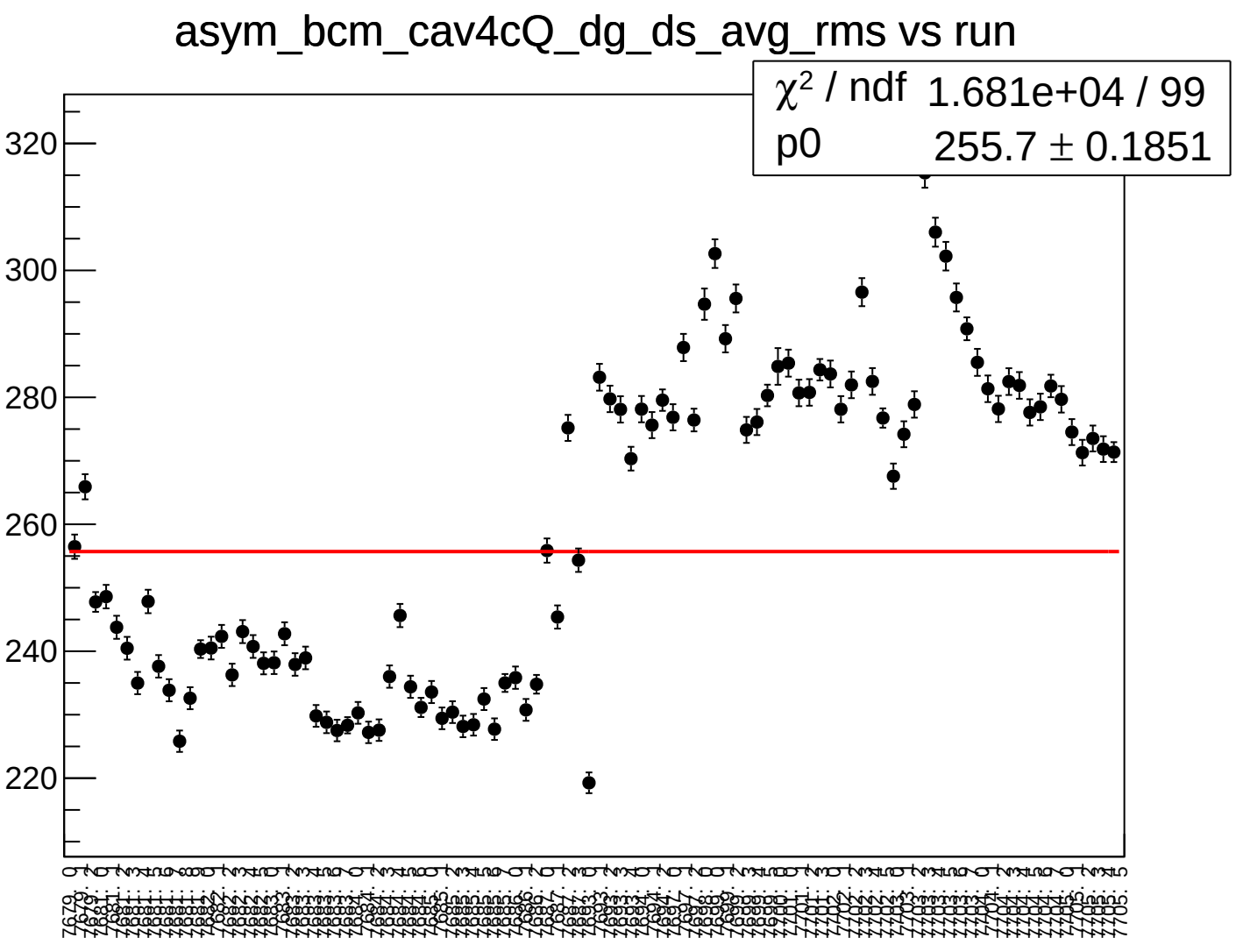

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 21.67 / 99
p0 79.4 ± 261.7
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 574.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 100
Mean 0.002307
Std Dev 0.4655
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

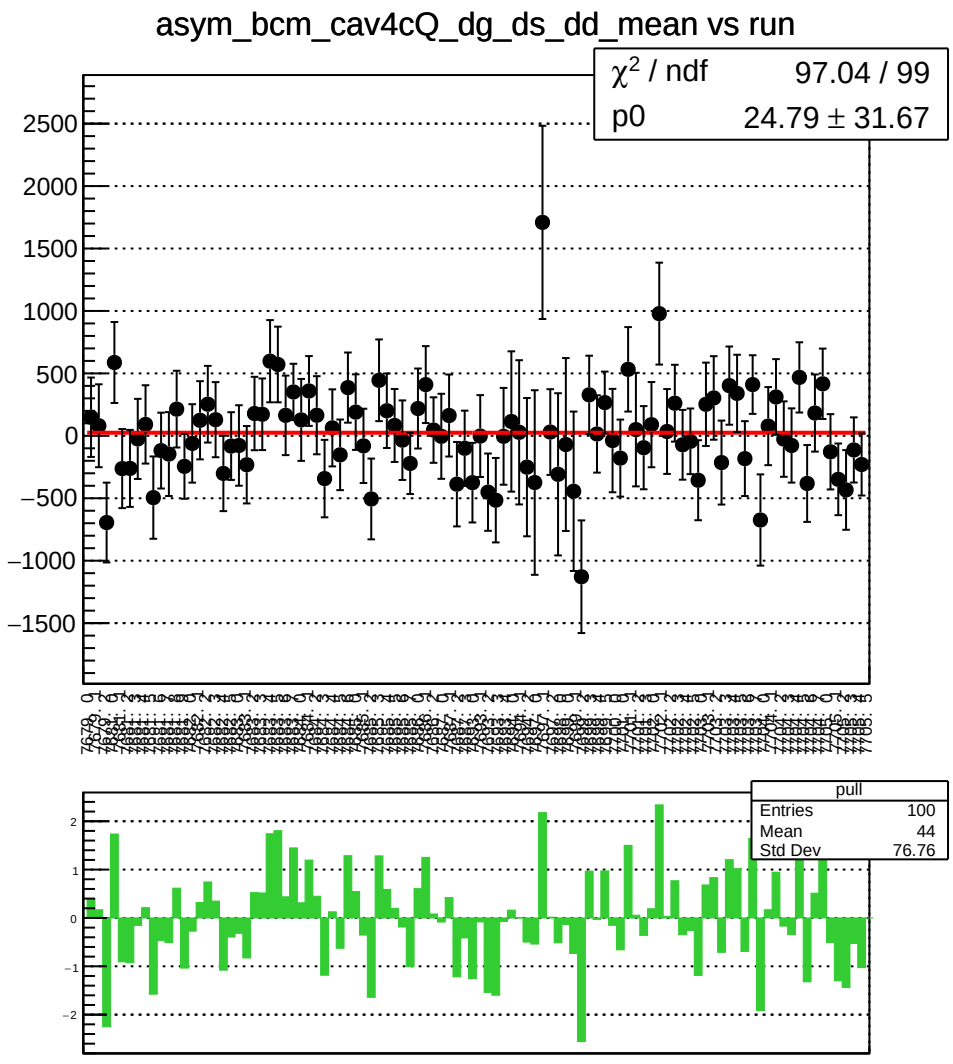

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 1.618e+04 / 99
p0 255.6 ± 0.185
320
300
280
260
240
220

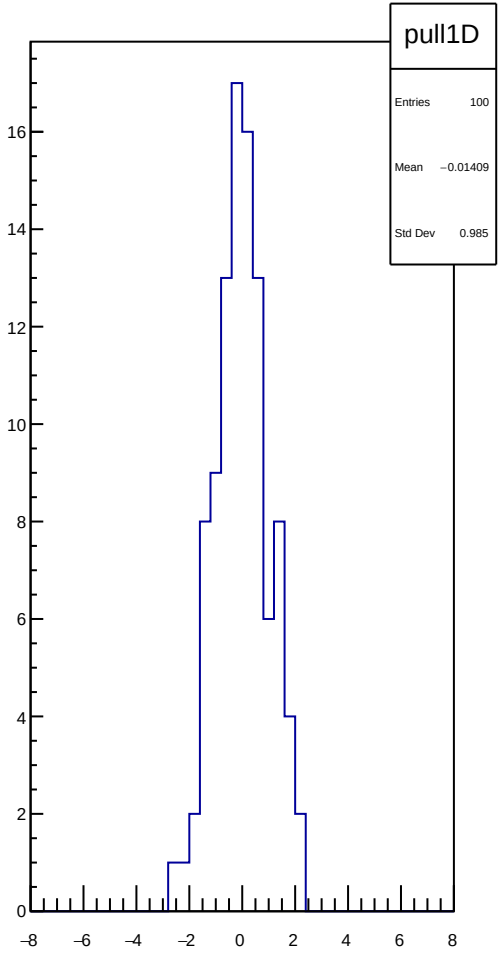

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 108.5 / 99
p0 39.76 ± 29.09
pull
Entries 100
Mean −115.3
Std Dev 0
pull1D
Entries 100
Mean −0.004927
Std Dev 1.041

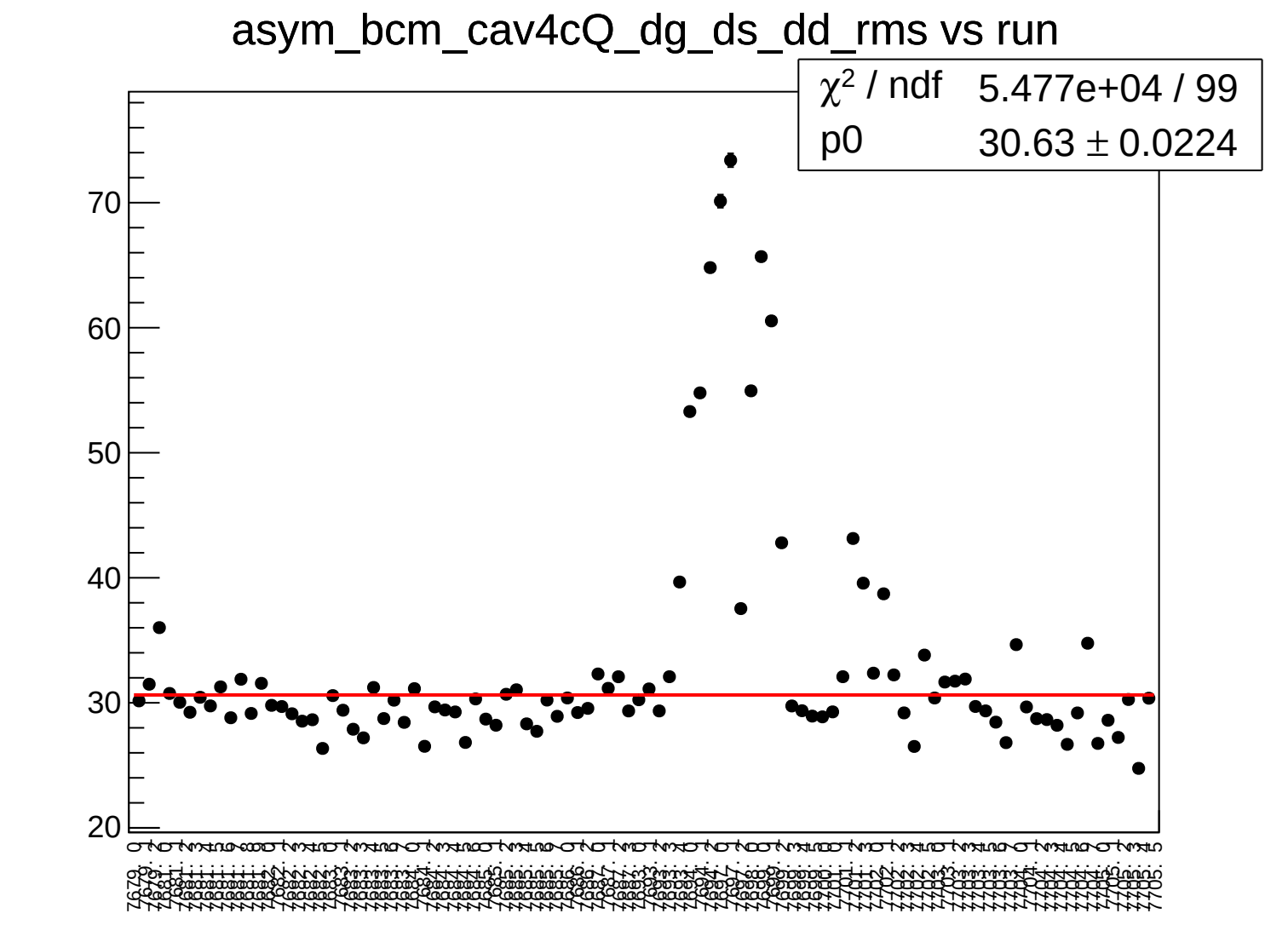

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 6.207e+04 / 99
p0 28.08 ± 0.02057
70
60
50
40
30
20

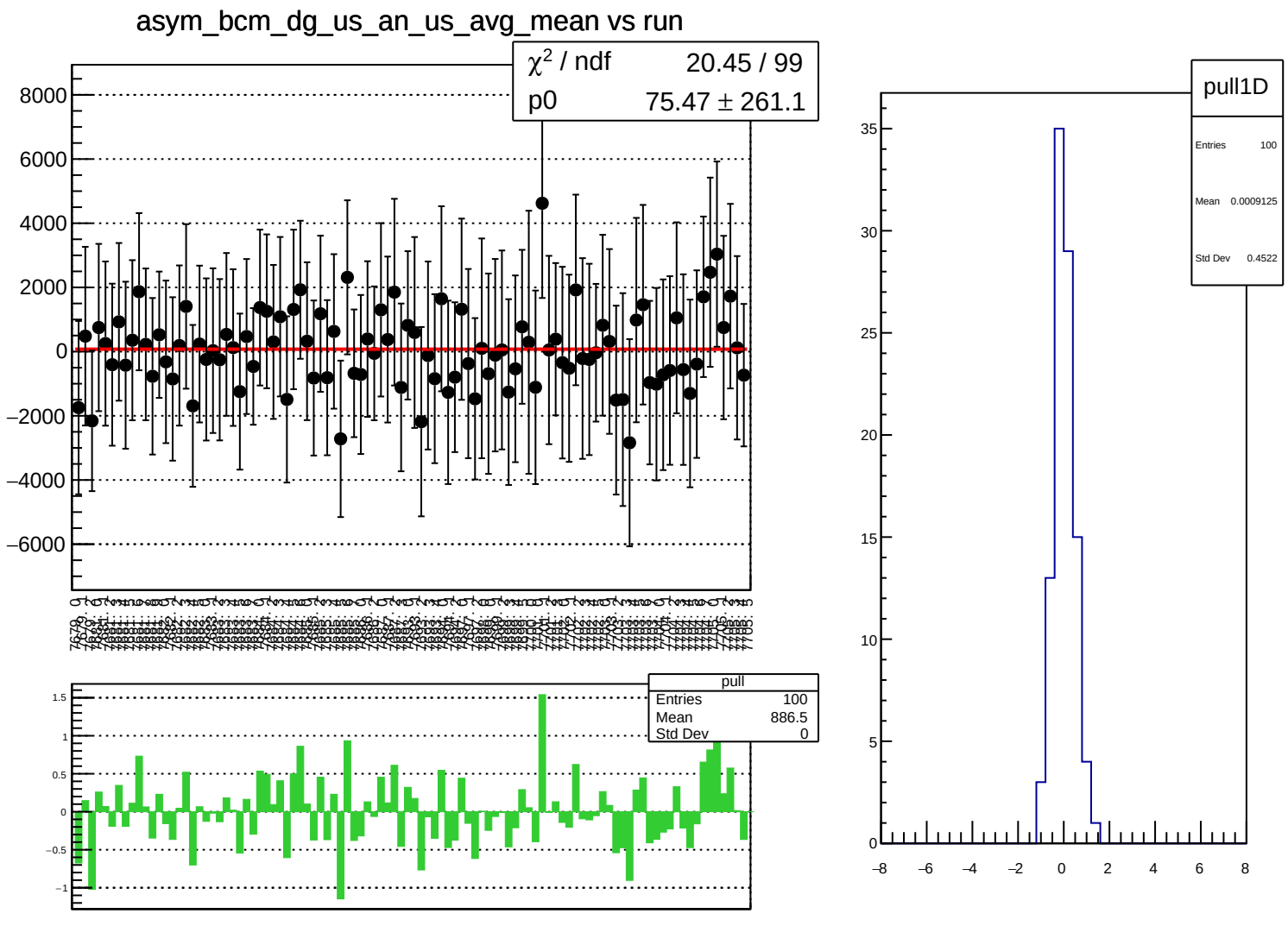

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 22.66 / 99
p0 99.45 ± 261.8
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 598.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 100
Mean 0.002315
Std Dev 0.4761
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

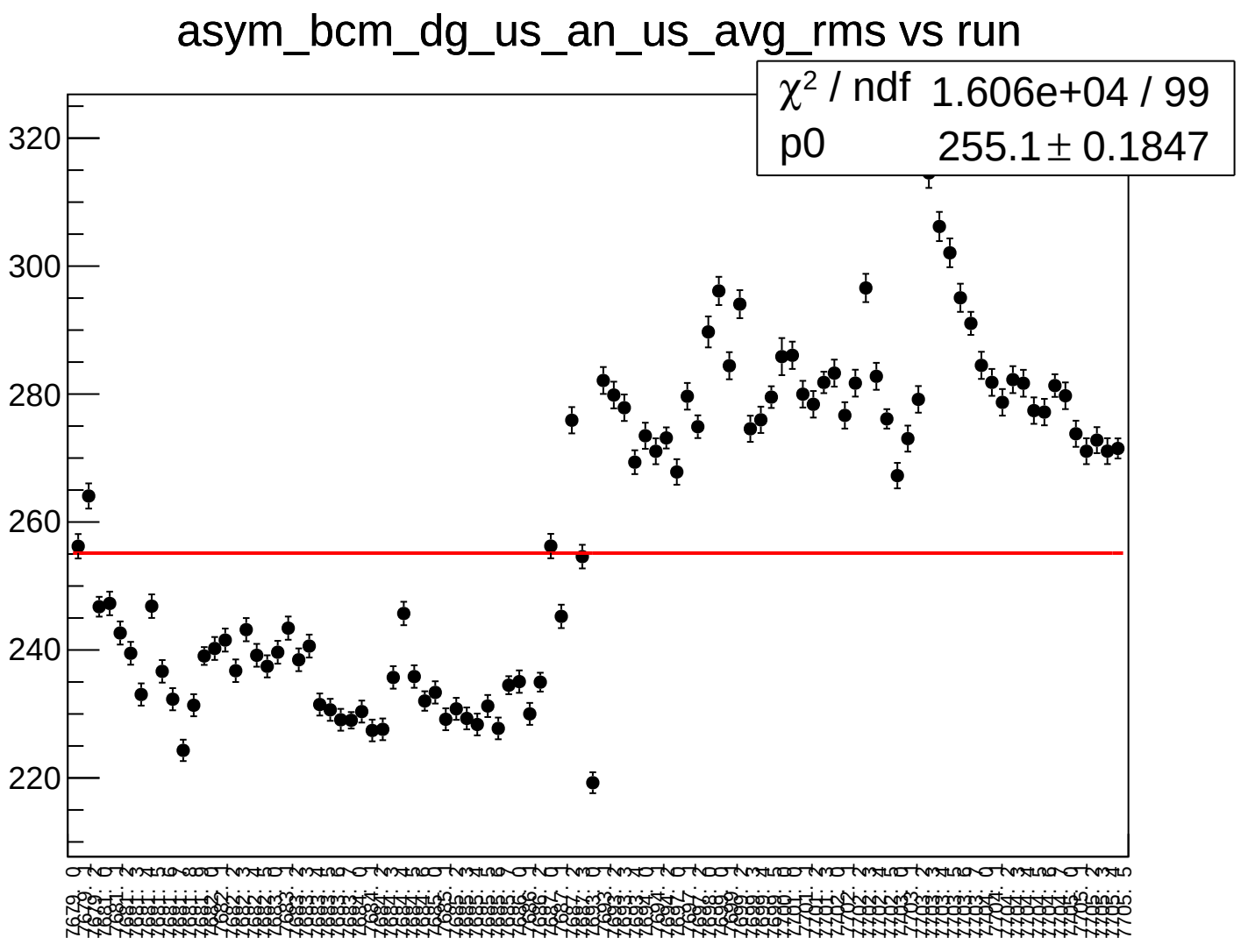

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 1.681e+04 / 99
p0 255.7 ± 0.1851
320
300
280
260
240
220

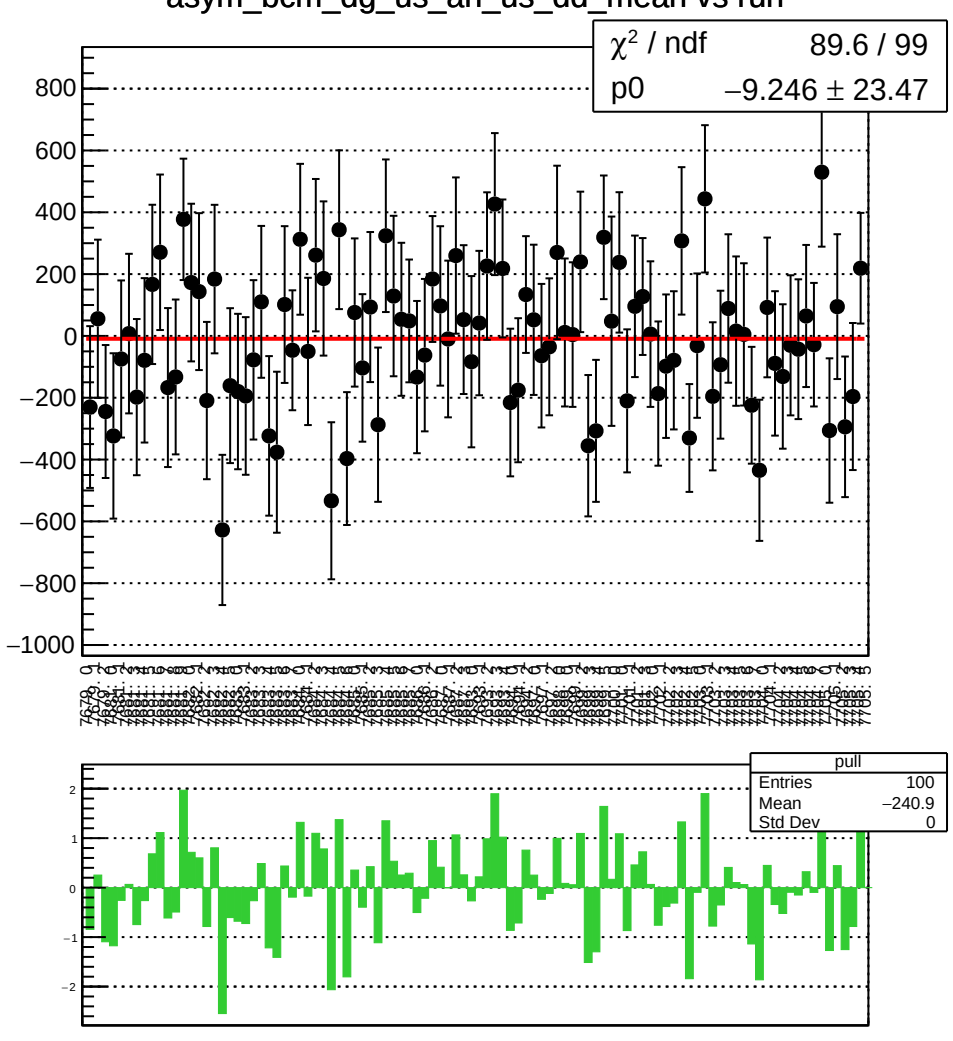

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 97.04 / 99
p0 24.79 ± 31.67
pull
Entries 100
Mean 44
Std Dev 76.76

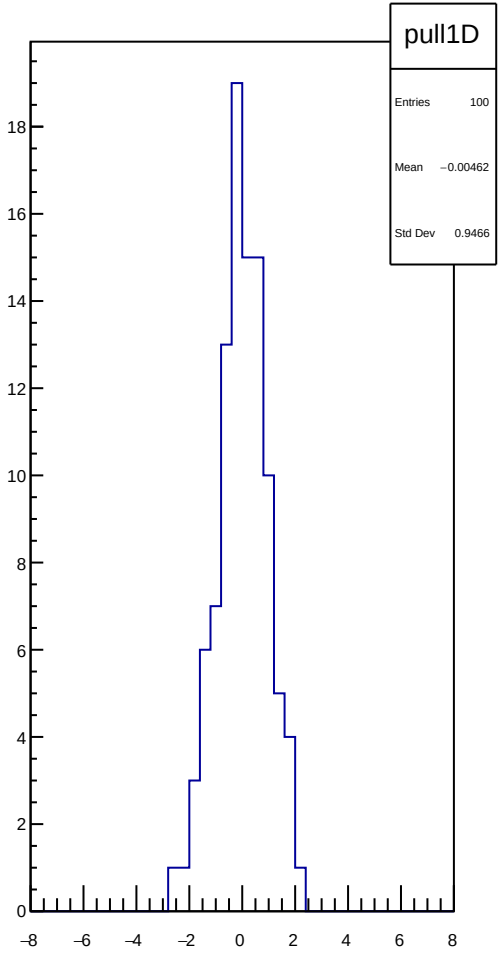

pull1D
Entries 100
Mean −0.01409
Std Dev 0.985

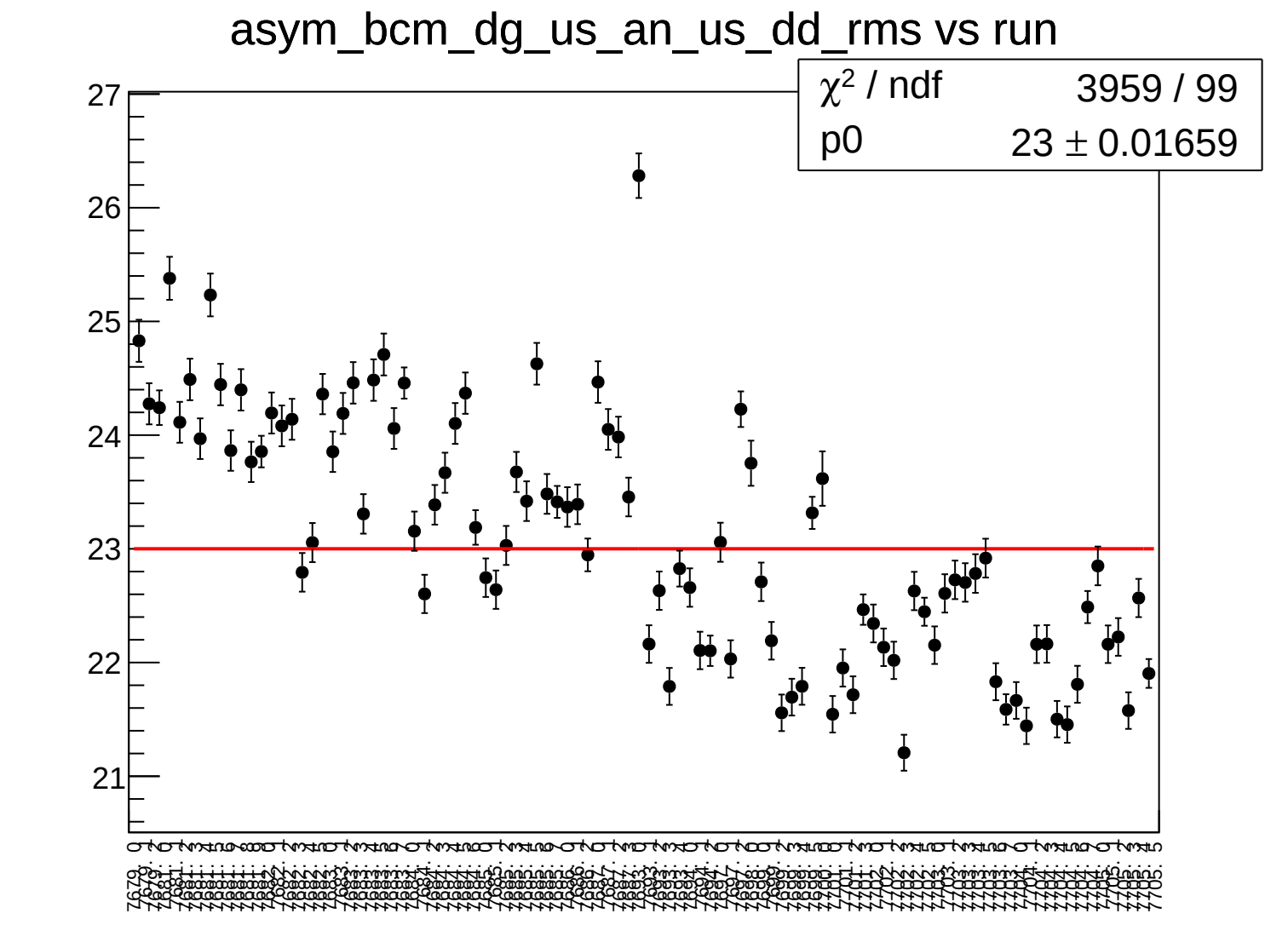

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 5.477e+04 / 99
p0 30.63 ± 0.0224
70
60
50
40
30
20

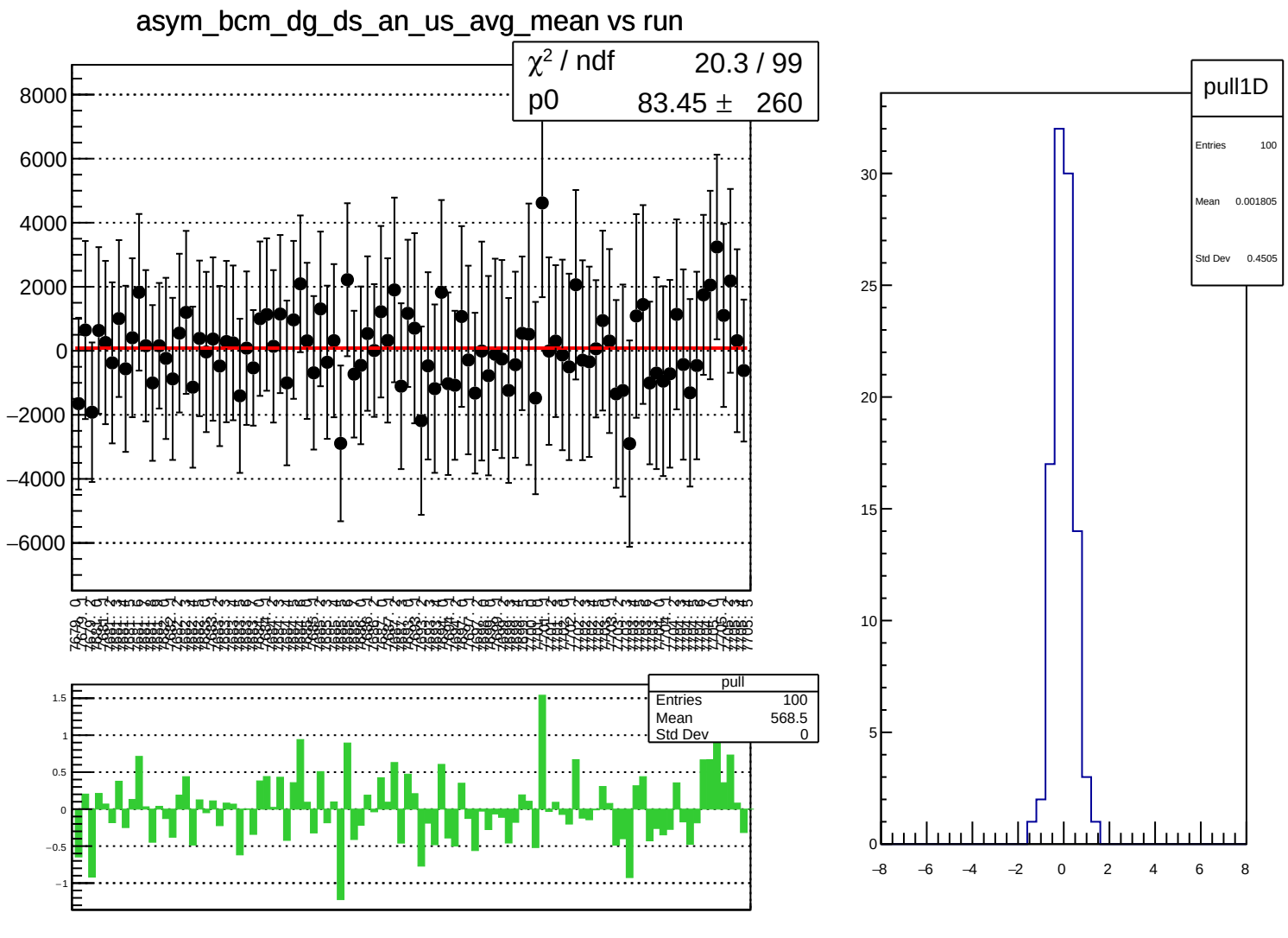

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 20.45 / 99
p0 75.47 ± 261.1
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 886.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 100
Mean 0.0009125
Std Dev 0.4522
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

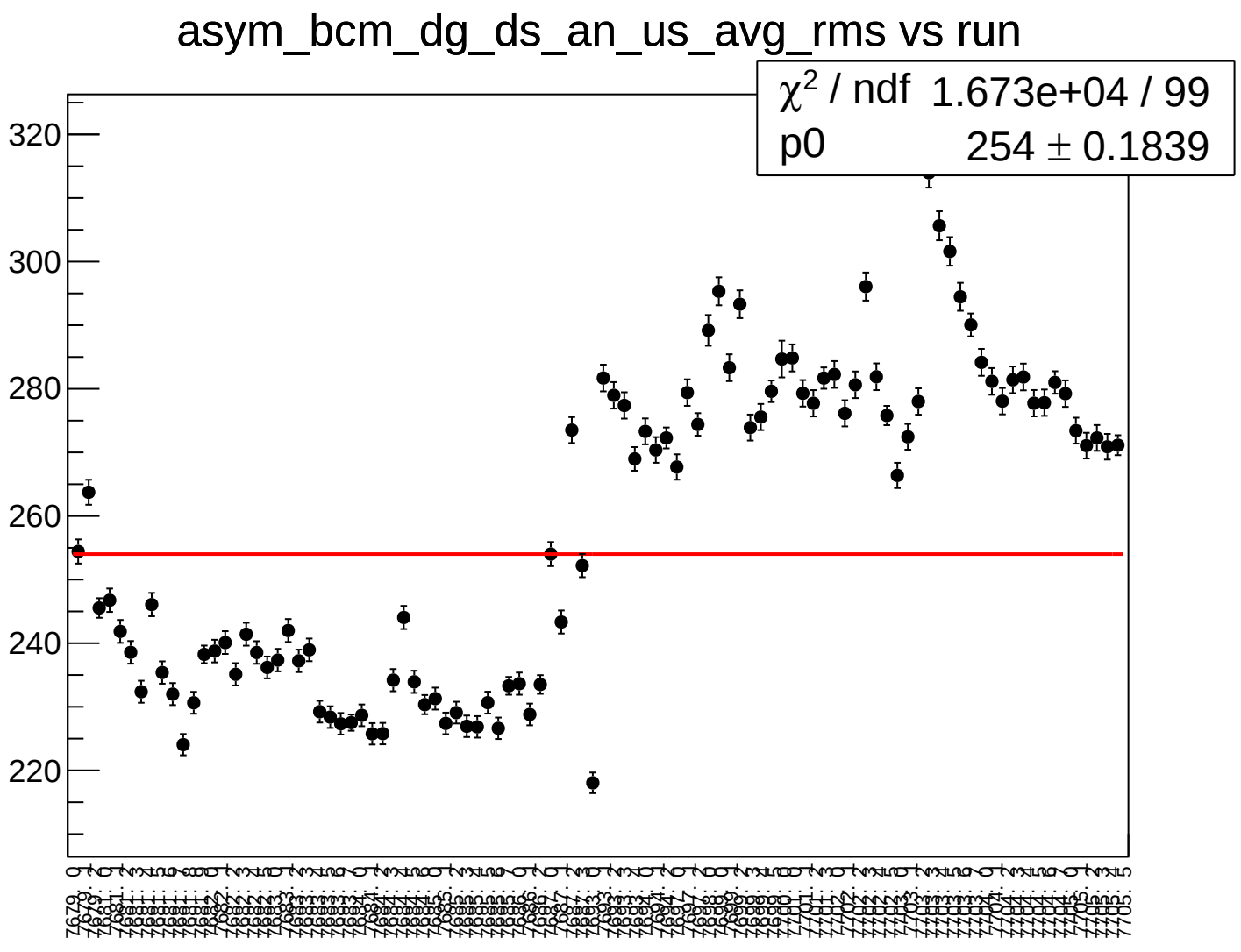

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 1.606e+04 / 99
p0 255.1 ± 0.1847
320
300
280
260
240
220

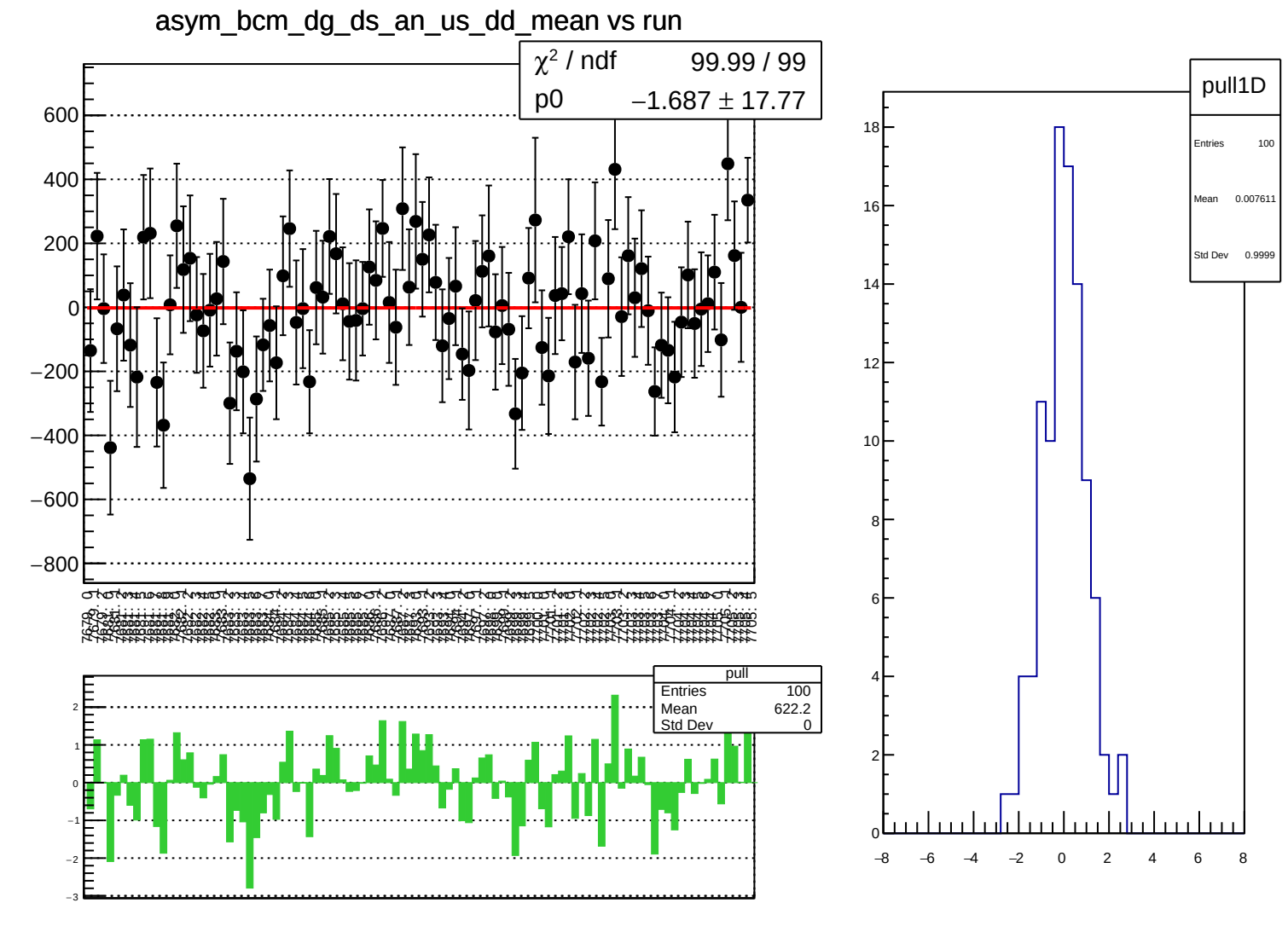

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 89.6 / 99
p0 −9.246 ± 23.47
pull
Entries 100
Mean −240.9
Std Dev 0

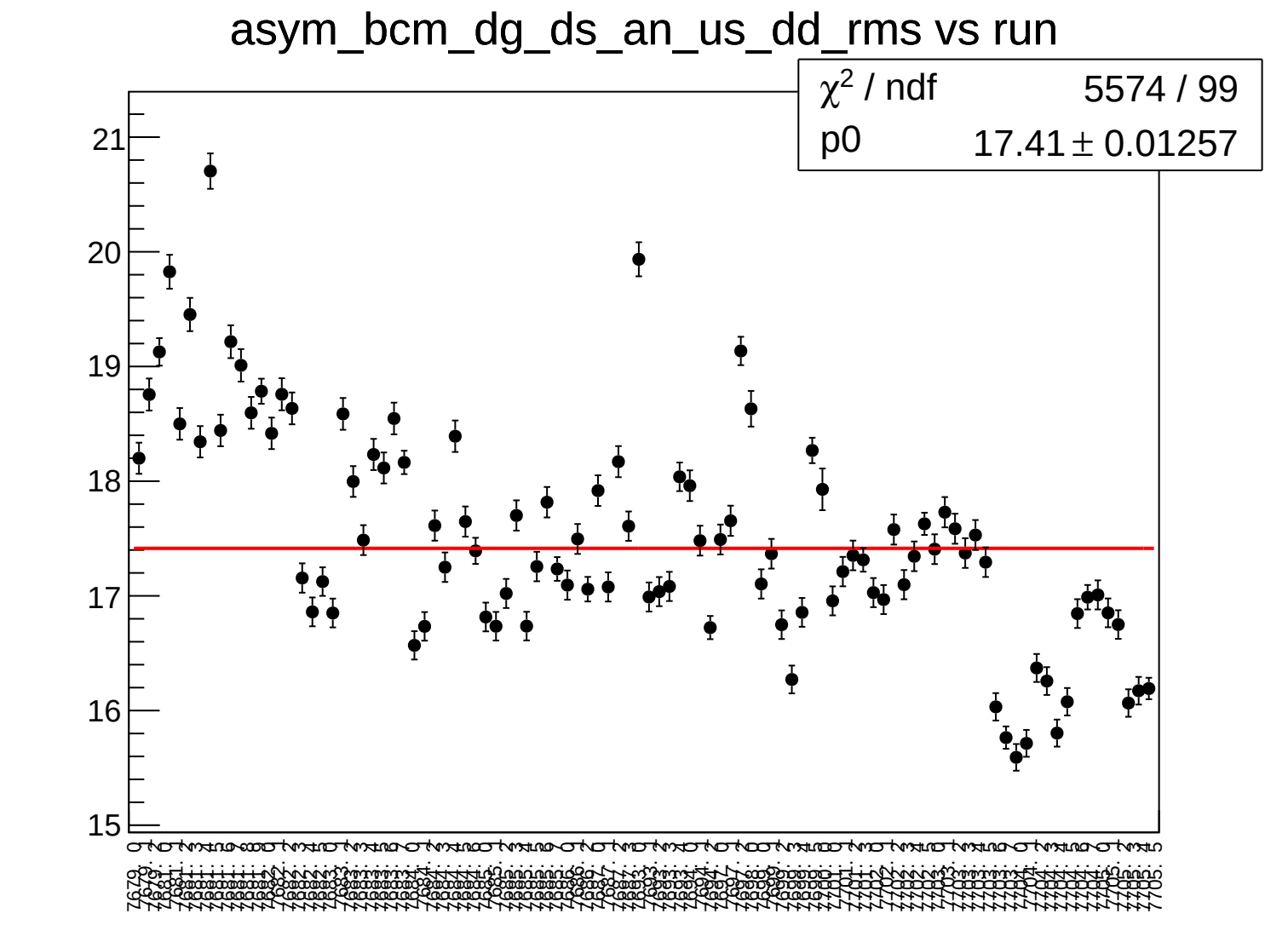

pull1D
Entries 100
Mean −0.00462
Std Dev 0.9466

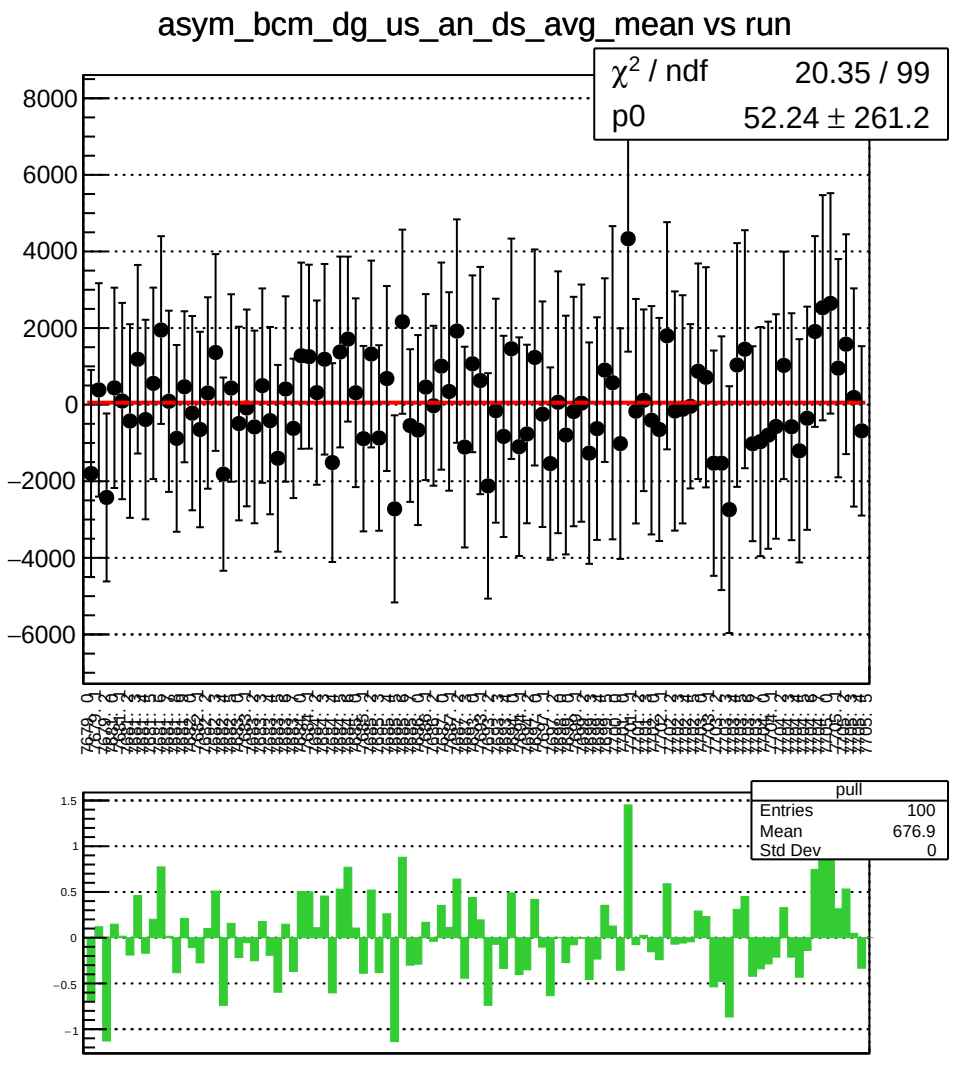

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 3959 / 99
p0 23 ± 0.01659
27
26
25
24
23
22
21

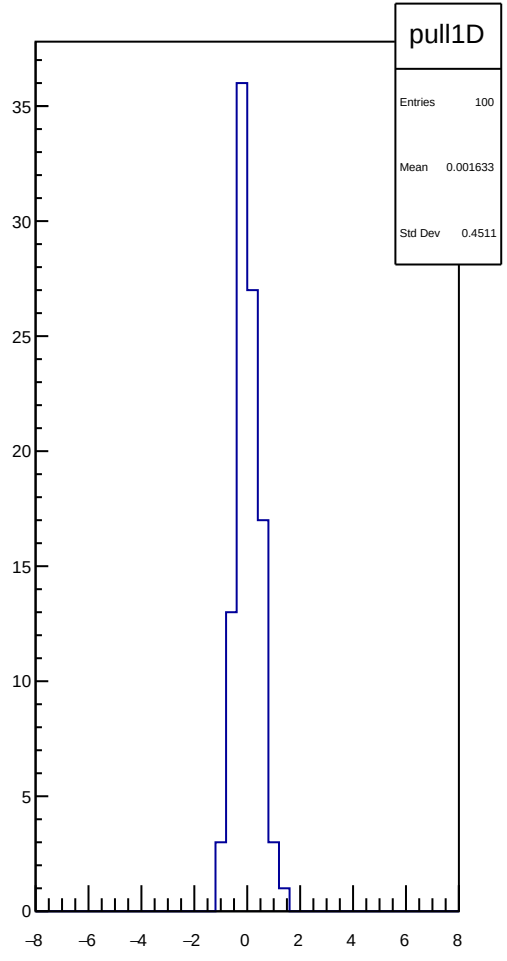

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 20.3 / 99
p0 83.45 ± 260
pull
Entries 100
Mean 568.5
Std Dev 0
pull1D
Entries 100
Mean 0.001805
Std Dev 0.4505

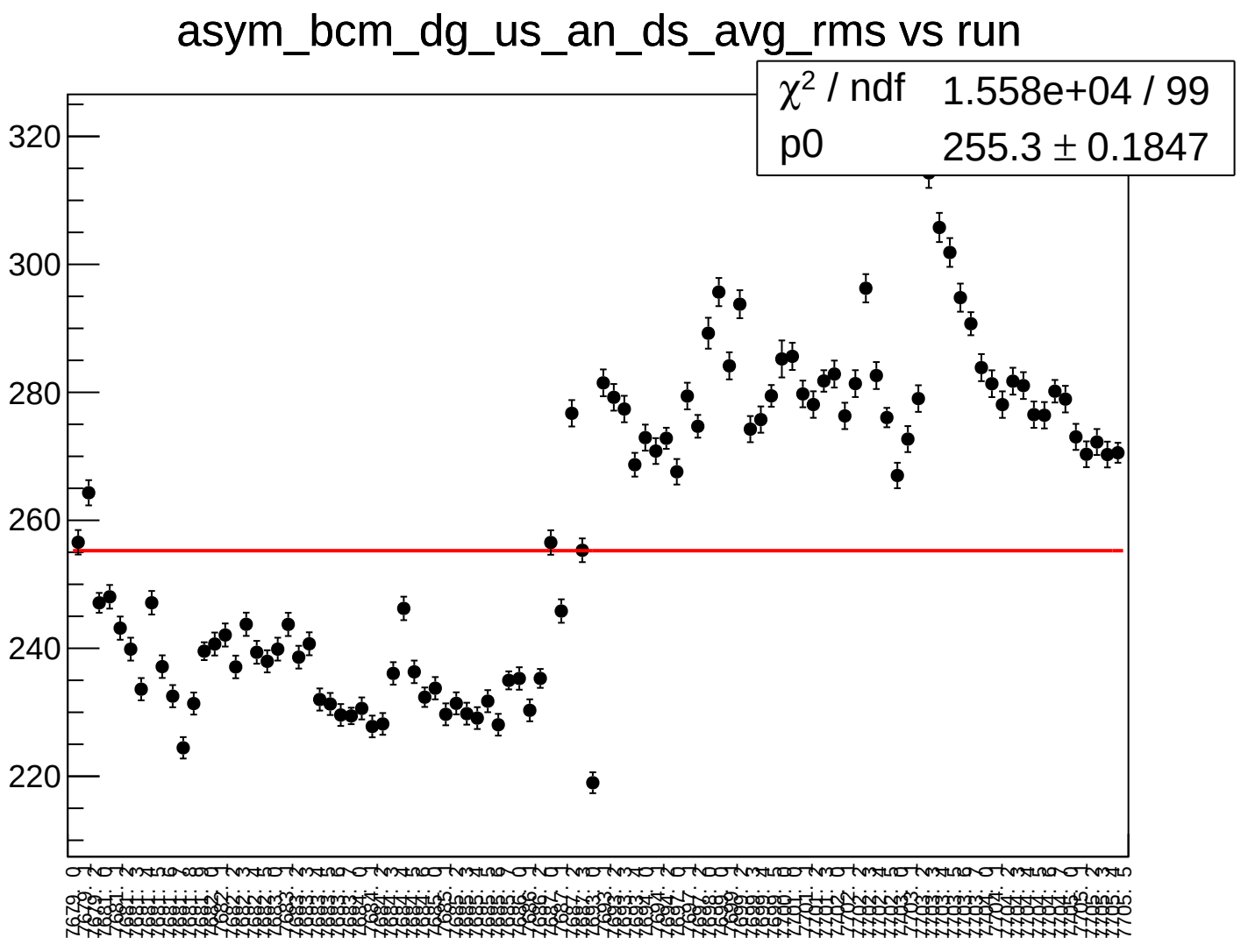

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 1.673e+04 / 99
p0 254 ± 0.1839
320
300
280
260
240
220

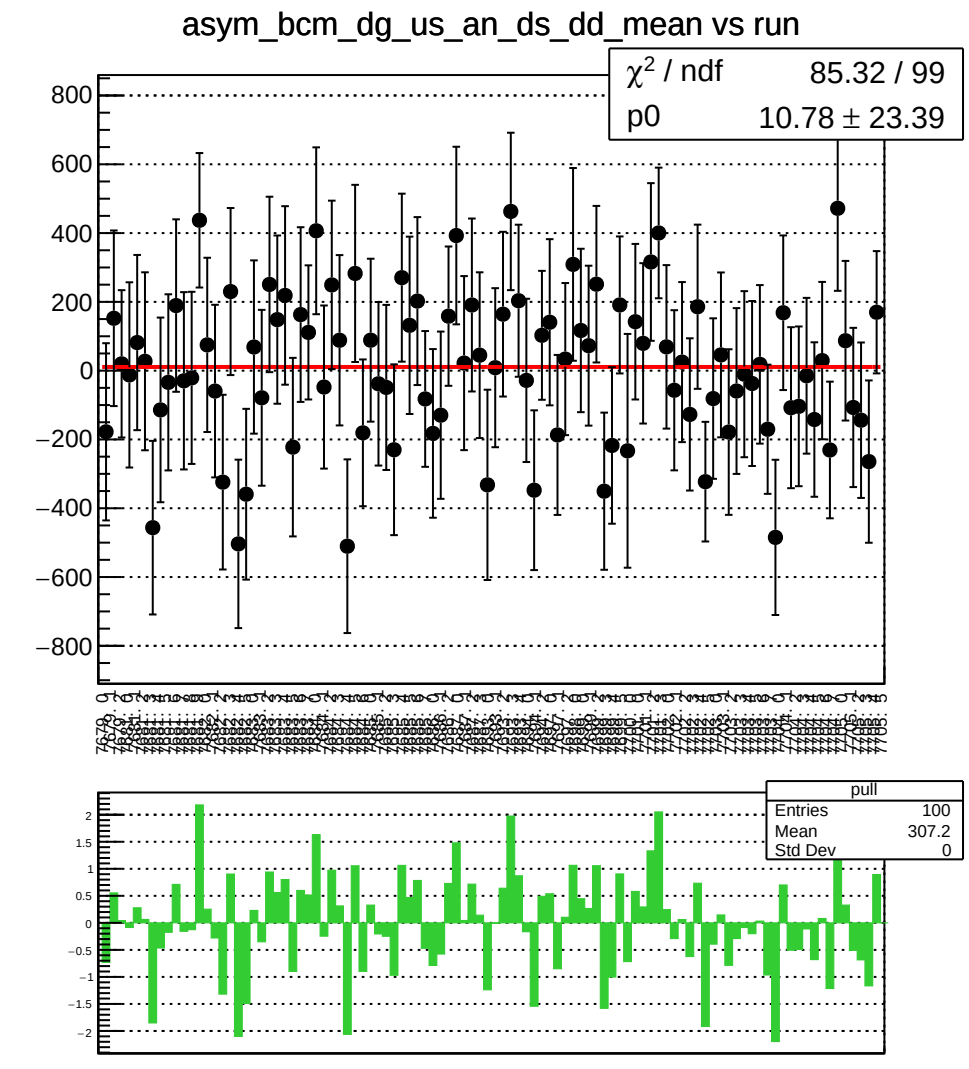

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 99.99 / 99
p0 −1.687 ± 17.77
600
400
200
0
−200
−400
−600
−800
pull
Entries 100
Mean 622.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean 0.007611
Std Dev 0.9999
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

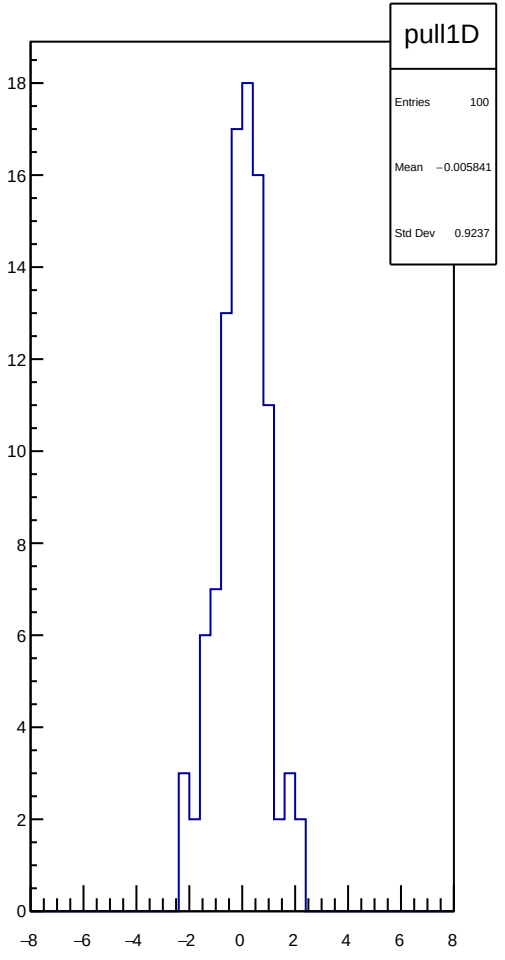

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 5574 / 99
p0 17.41 ± 0.01257
21
20
19
18
17
16
15

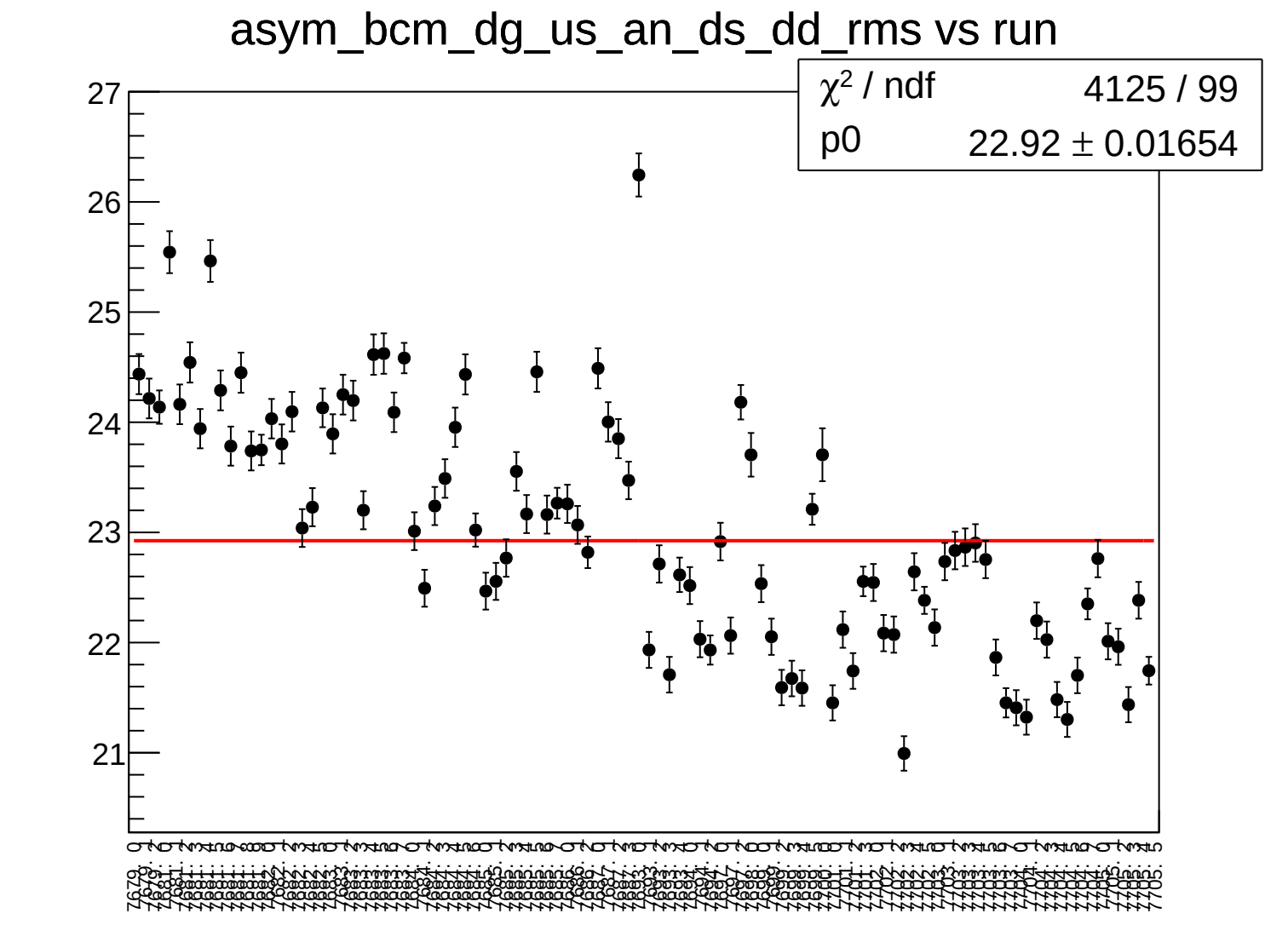

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 20.35 / 99
p0 52.24 ± 261.2
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 676.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1

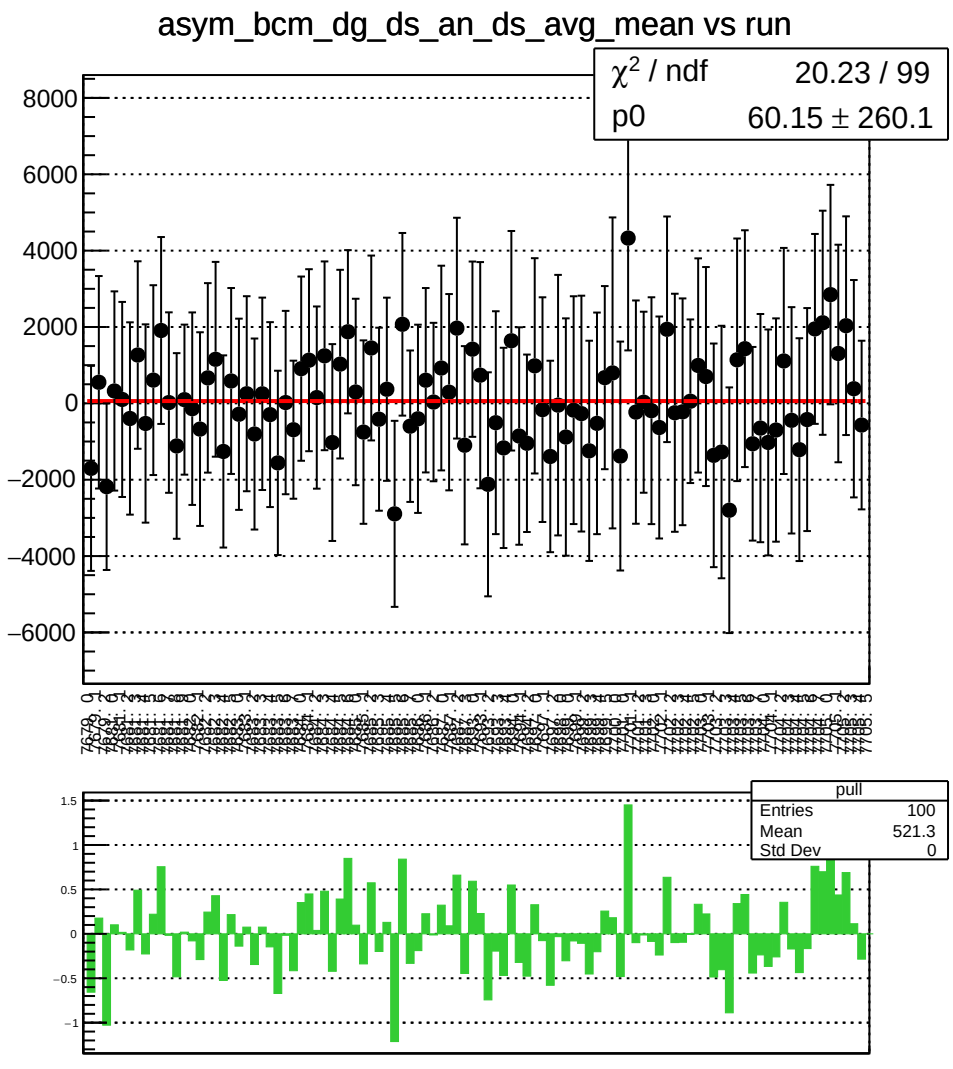

pull1D
Entries 100
Mean 0.001633
Std Dev 0.4511
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

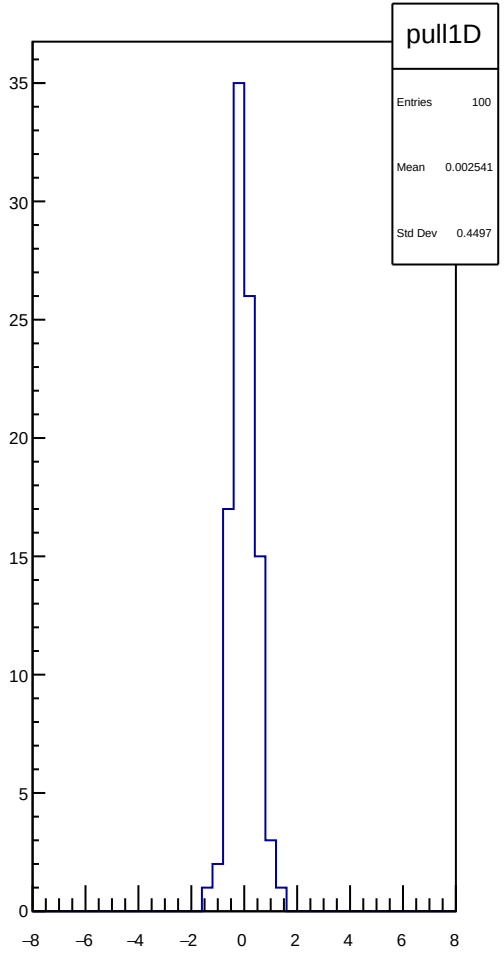

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 1.558e+04 / 99
p0 255.3 ± 0.1847
320
300
280
260
240
220

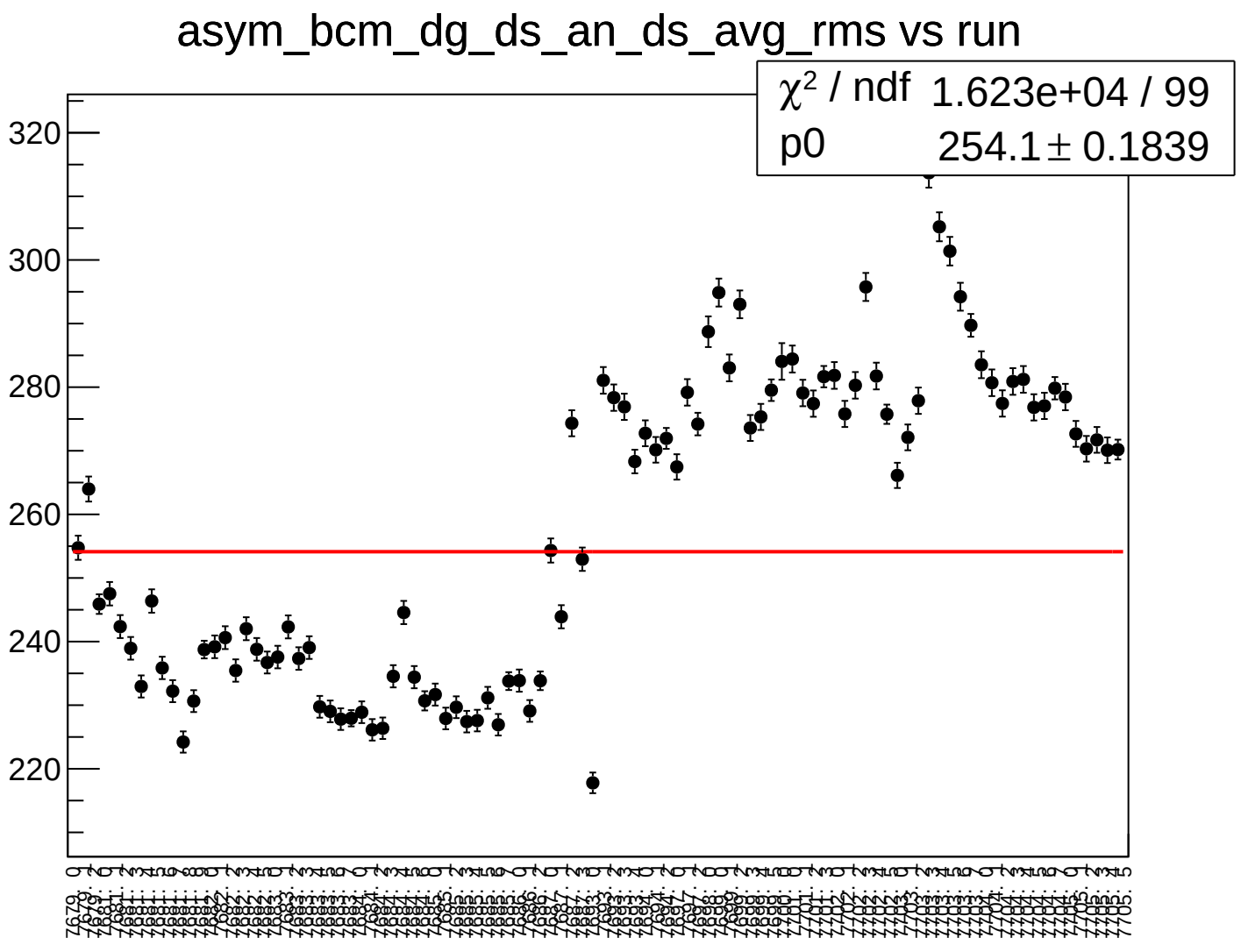

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 85.32 / 99
p0 10.78 ± 23.39
pull
Entries 100
Mean 307.2
Std Dev 0

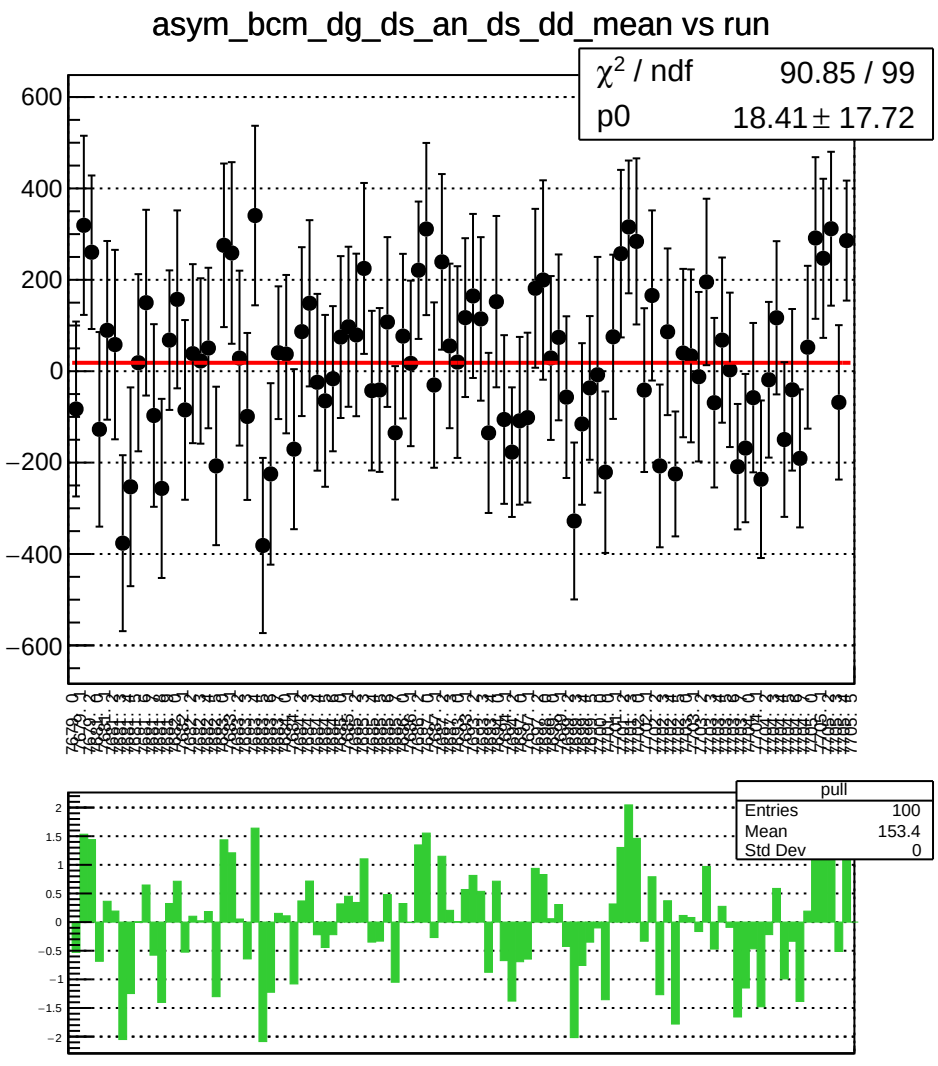

pull1D
Entries 100
Mean −0.005841
Std Dev 0.9237

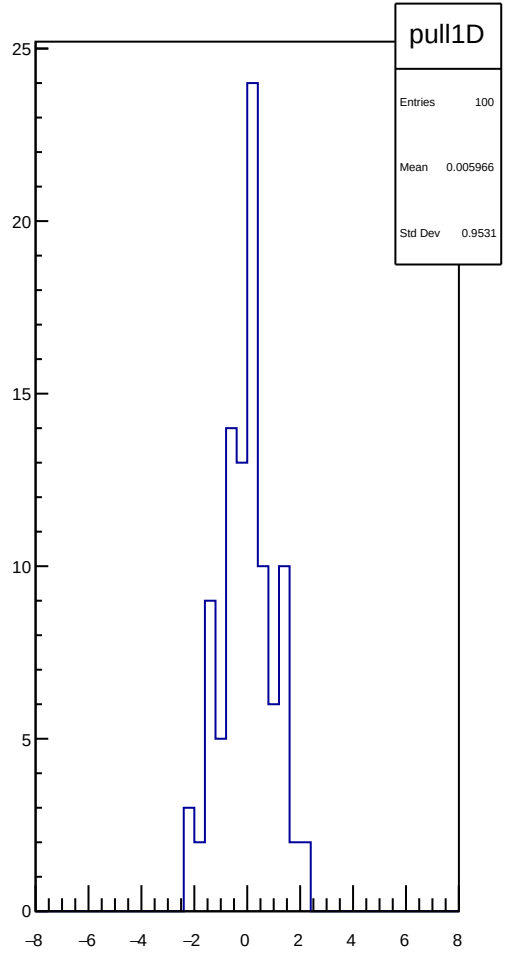

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 4125 / 99
p0 22.92 ± 0.01654
27
26
25
24
23
22
21

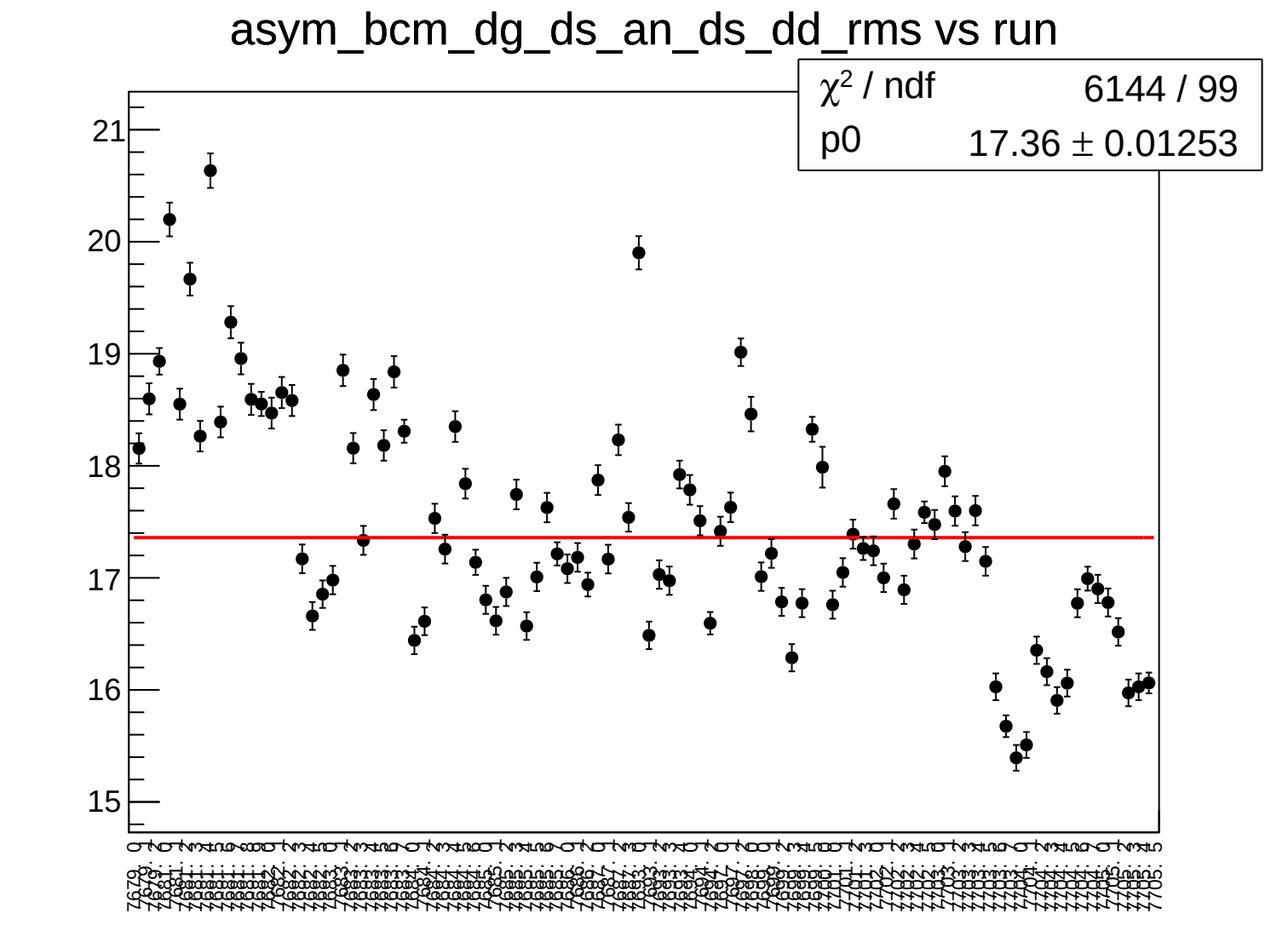

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 20.23 / 99
p0 60.15 ± 260.1
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 521.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1

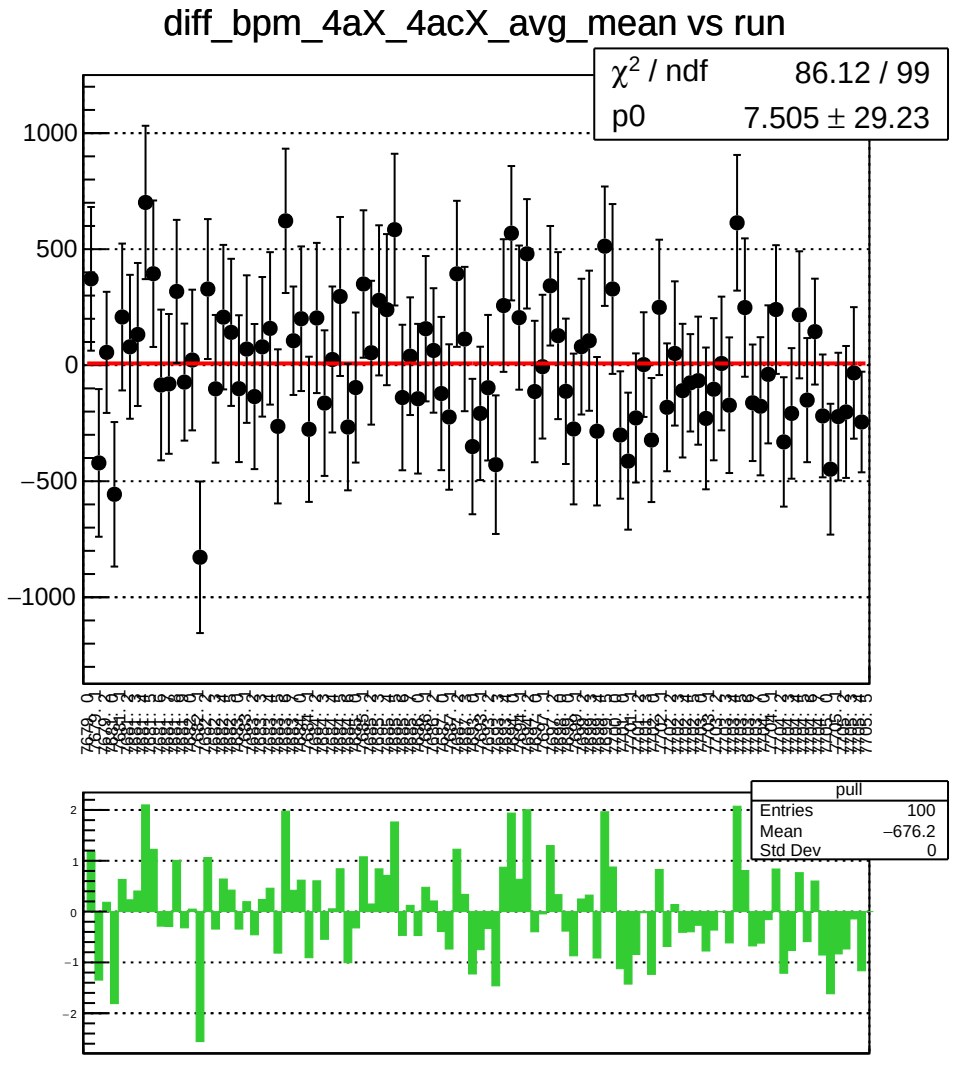

pull1D
Entries 100
Mean 0.002541
Std Dev 0.4497
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

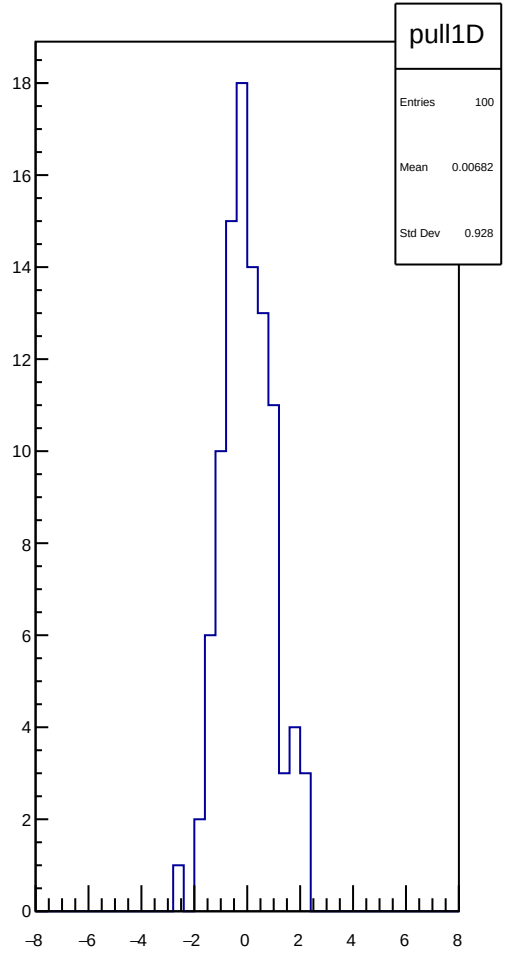

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 1.623e+04 / 99
p0 254.1 ± 0.1839
320
300
280
260
240
220

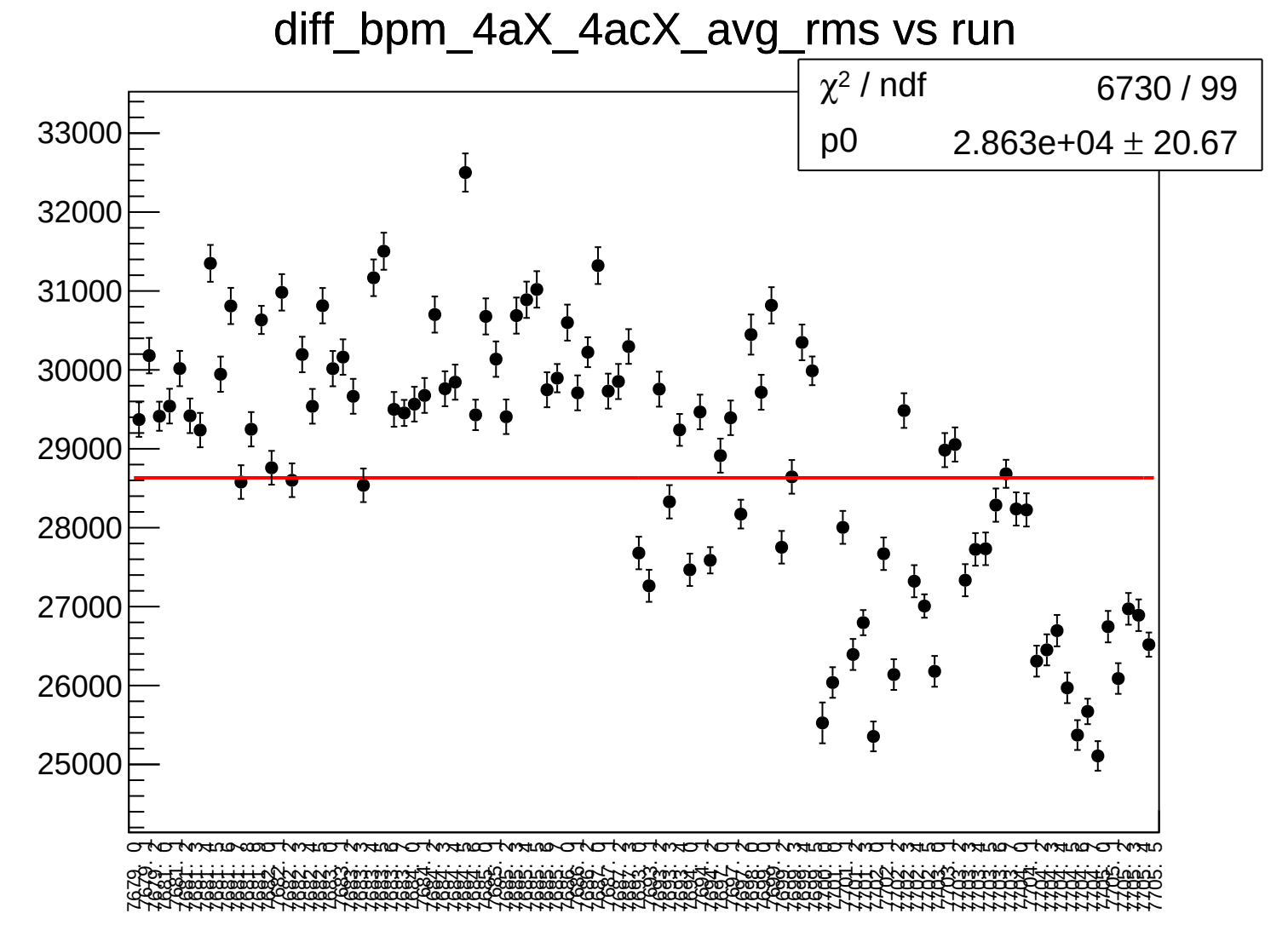

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 90.85 / 99
p0 18.41 ± 17.72
600
400
200
0
−200
−400
−600
pull
Entries 100
Mean 153.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

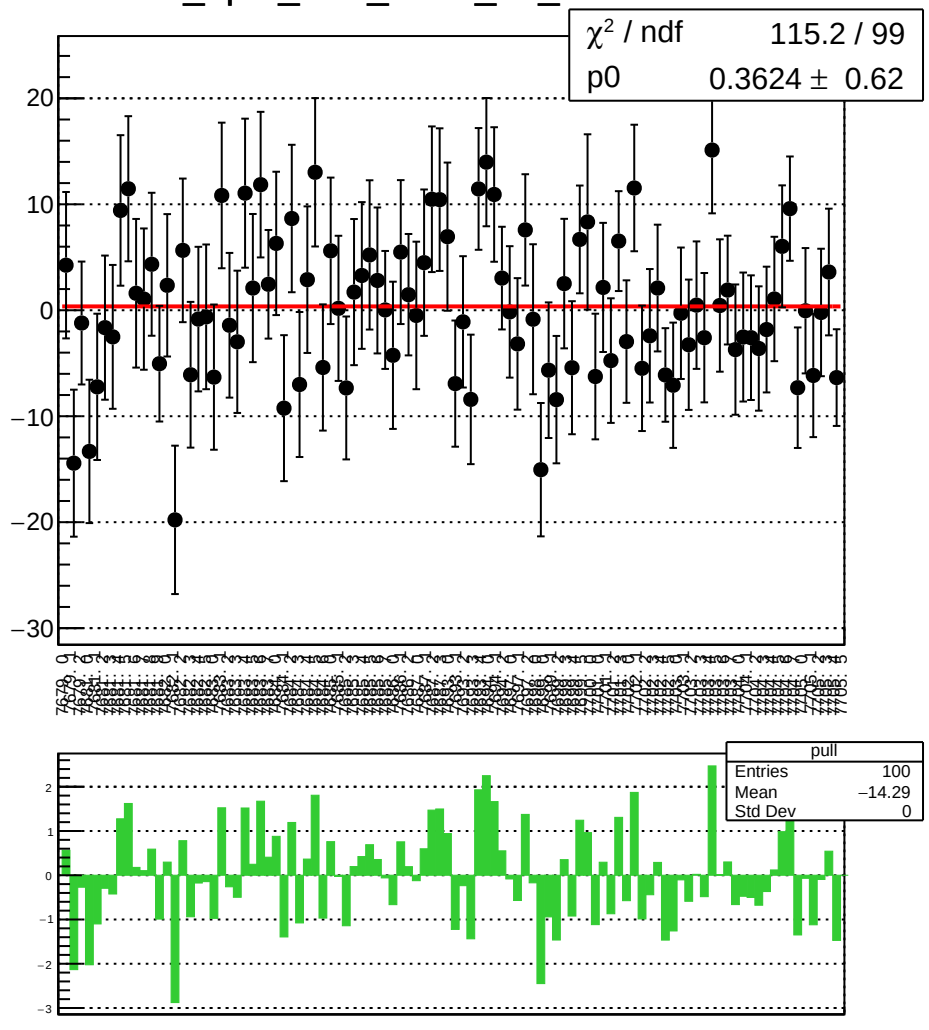

pull1D
Entries 100
Mean 0.005966
Std Dev 0.9531
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

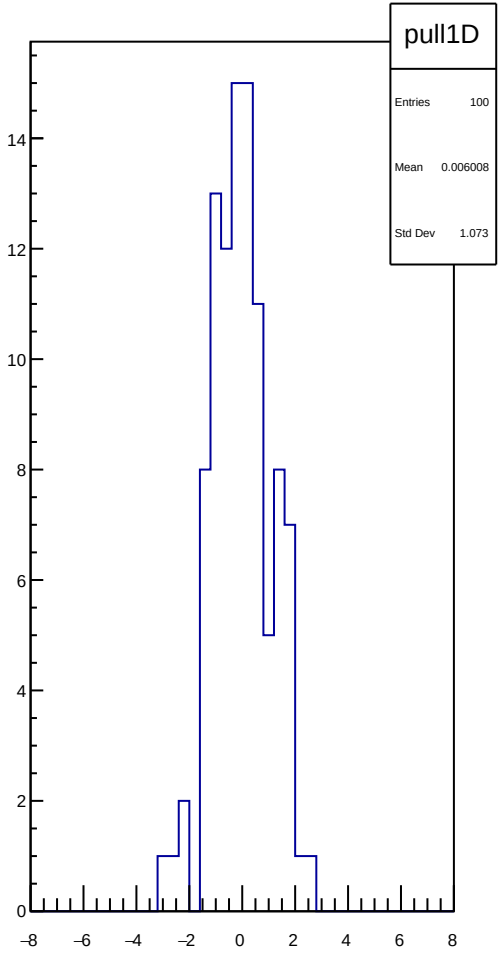

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 6144 / 99
p0 17.36 ± 0.01253
21
20
19
18
17
16
15

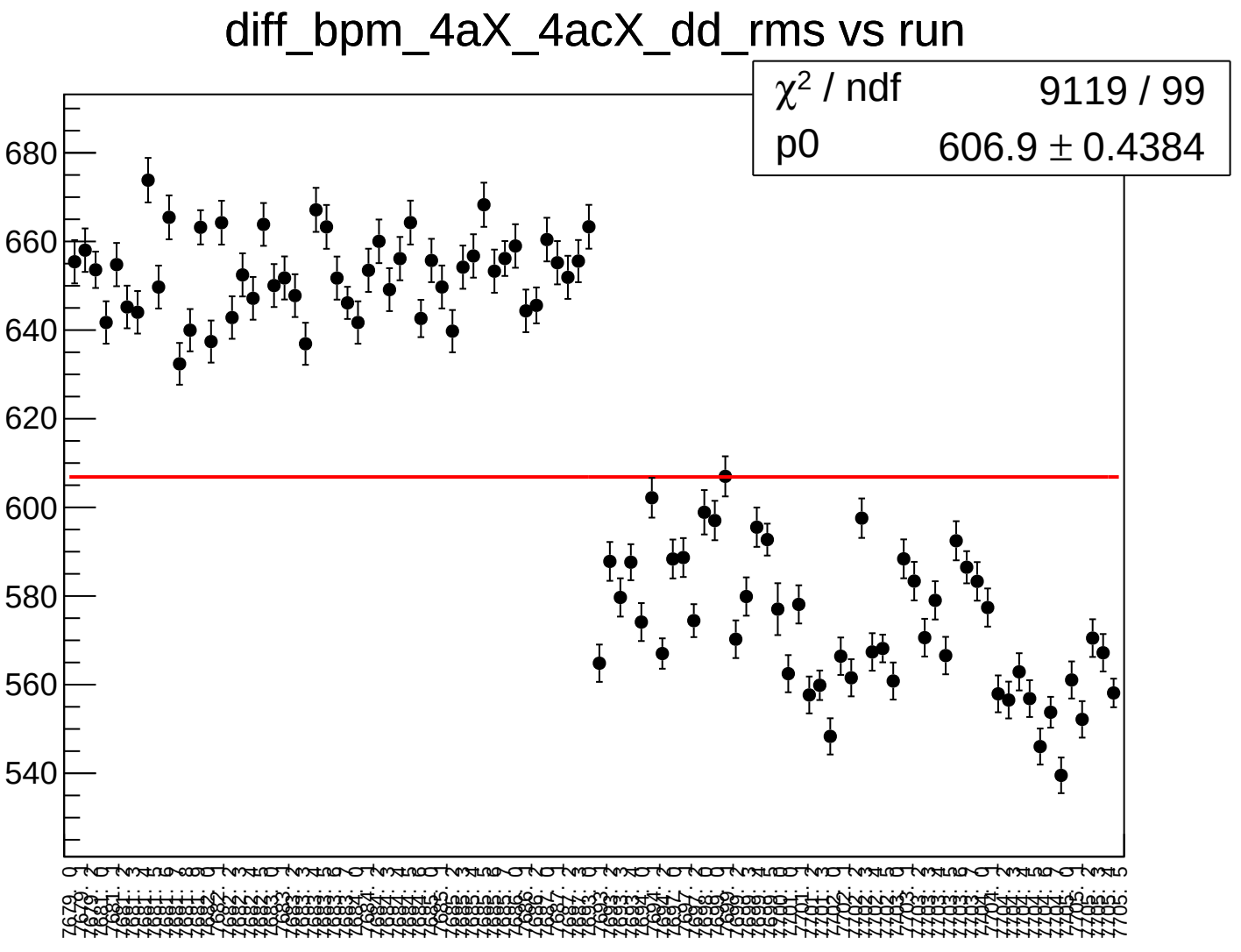

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 86.12 / 99
p0 7.505 ± 29.23
1000
500
0
−500
−1000
pull
Entries 100
Mean −676.2
Std Dev 0
2
1
0
−1
−2

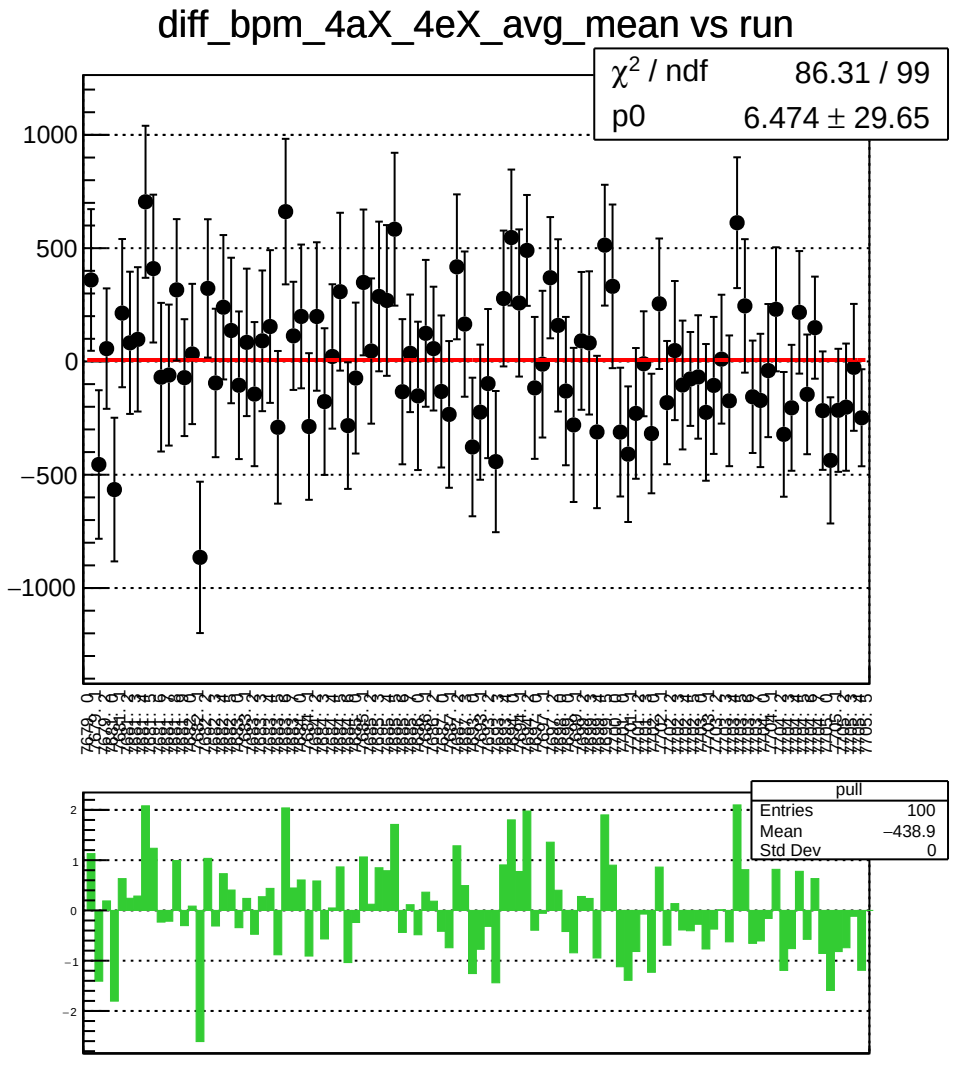

pull1D
Entries 100
Mean 0.00682
Std Dev 0.928
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

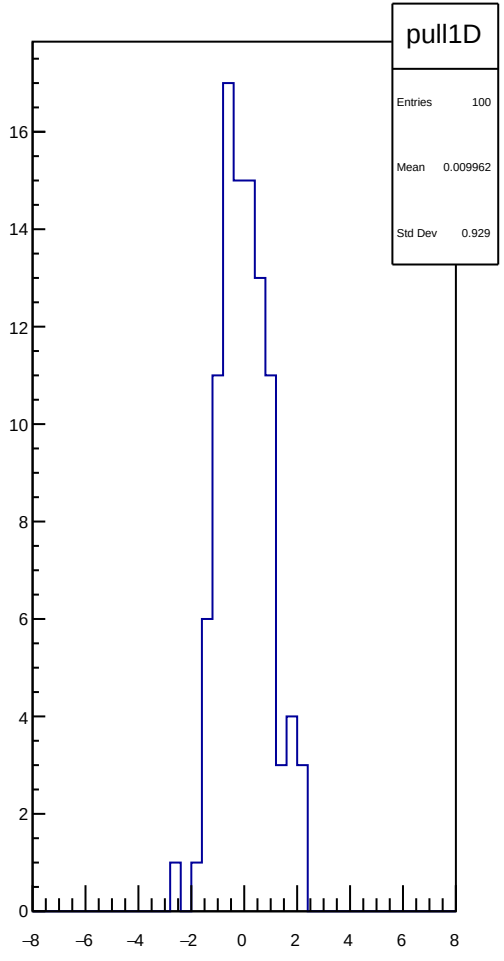

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 6730 / 99
p0 2.863e+04 ± 20.67
33000
32000
31000
30000
29000
28000
27000
26000
25000

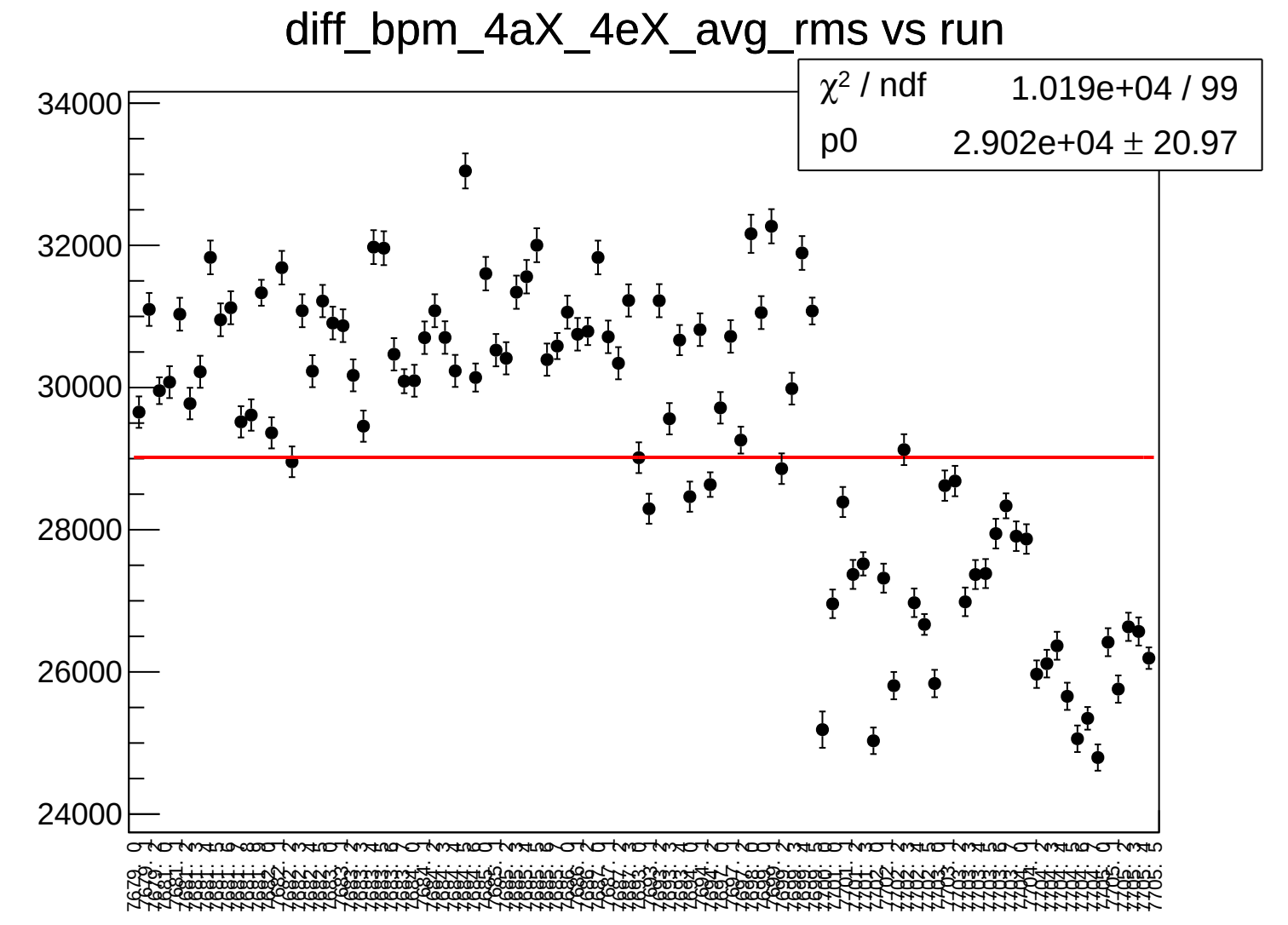

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 115.2 / 99
p0 0.3624 ± 0.62
pull
Entries 100
Mean −14.29
Std Dev 0

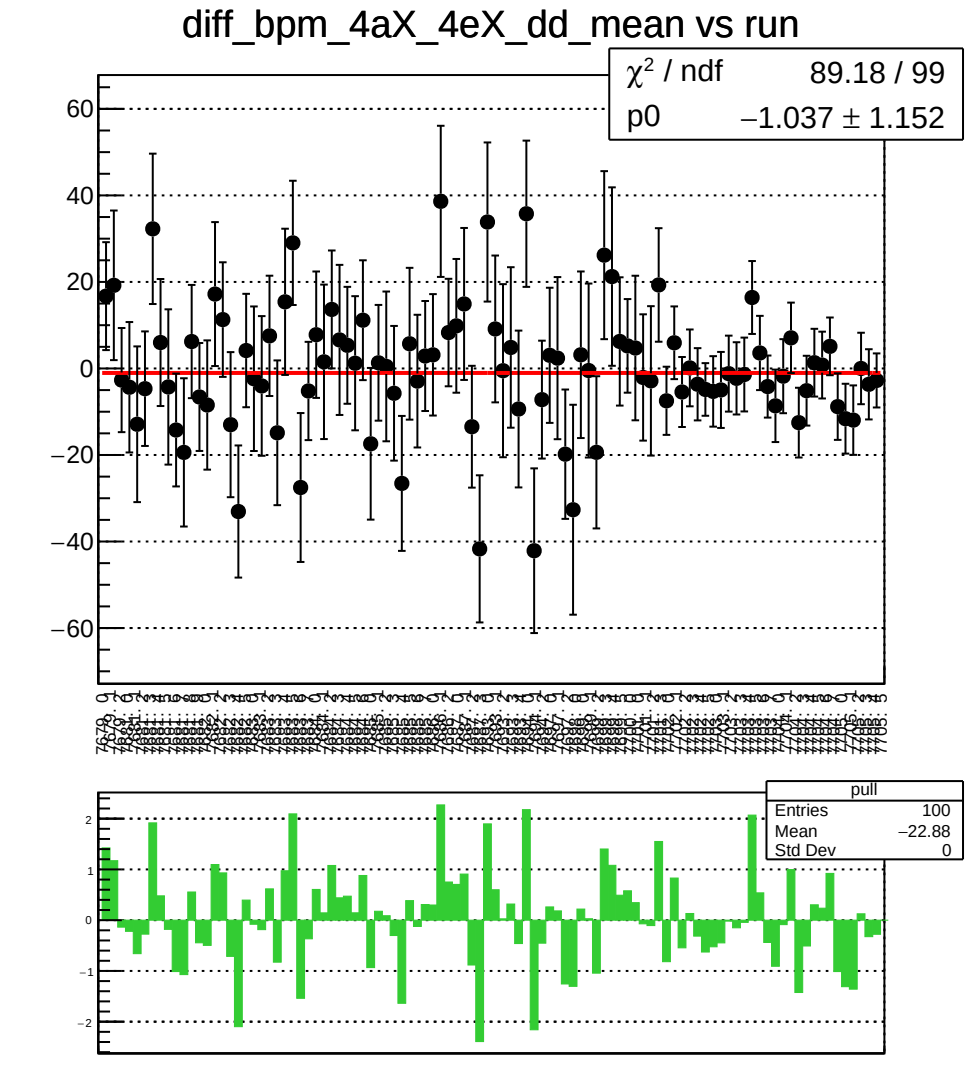

pull1D
Entries 100
Mean 0.006008
Std Dev 1.073

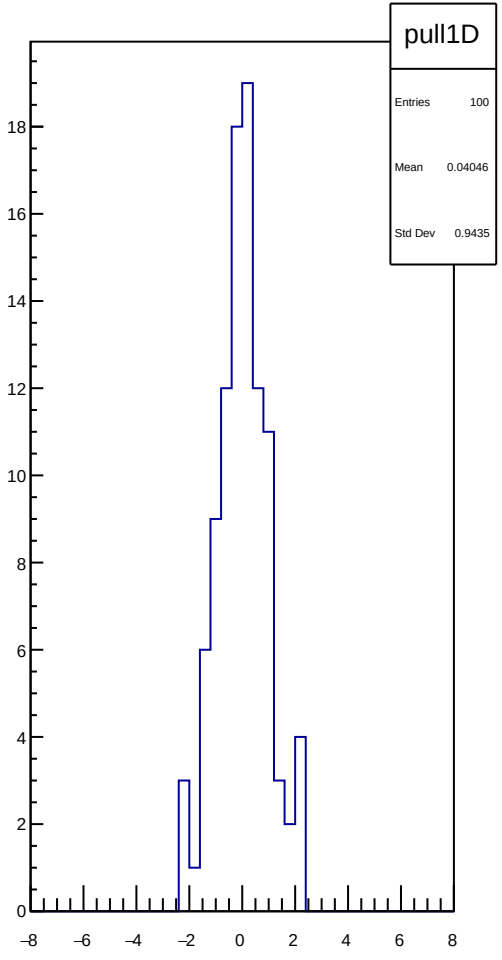

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 9119 / 99
p0 606.9 ± 0.4384
680
660
640
620
600
580
560
540

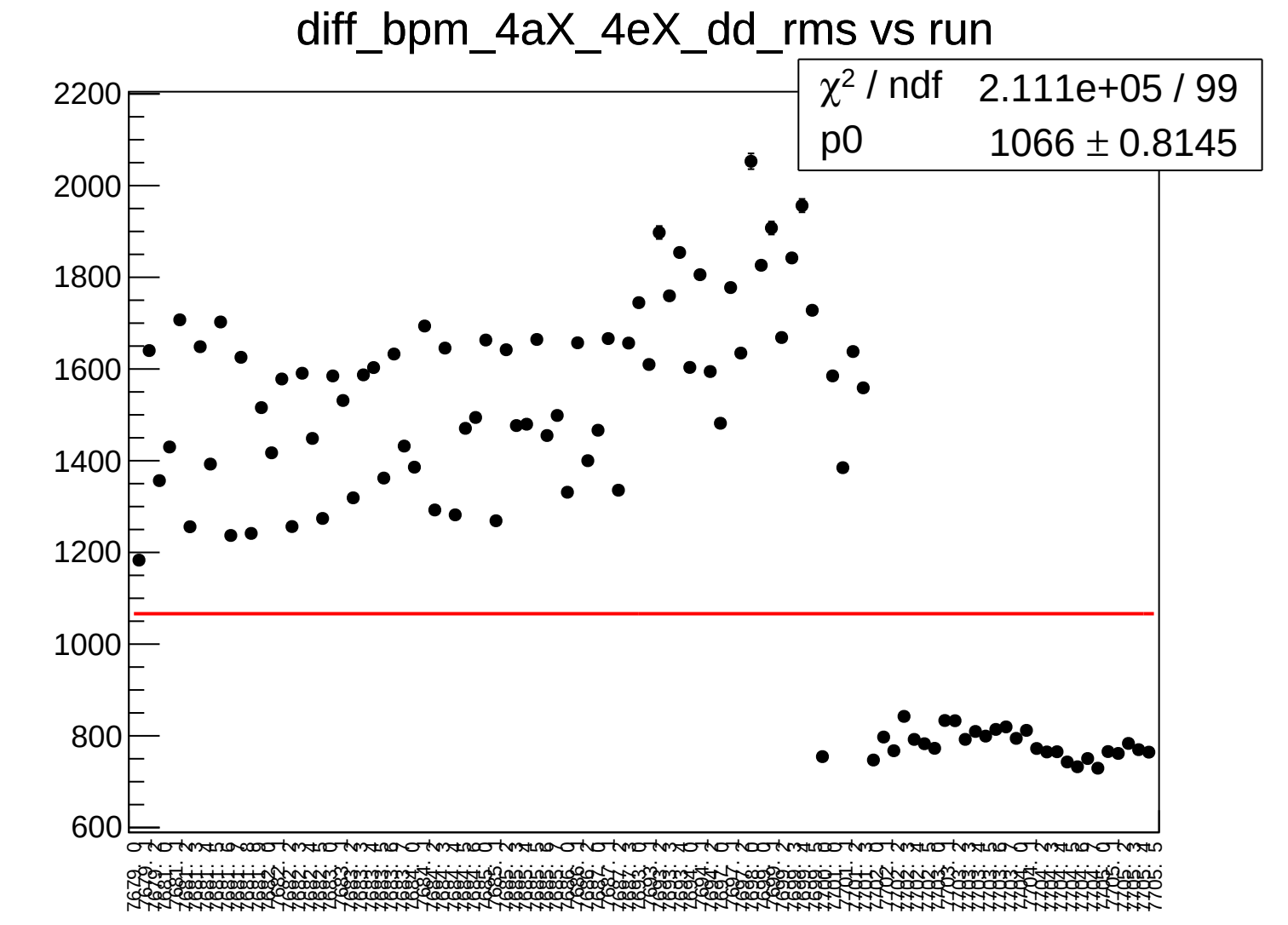

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 86.31 / 99
p0 6.474 ± 29.65
1000
500
0
−500
−1000
pull
Entries 100
Mean −438.9
Std Dev 0
2
1
0
−1
−2

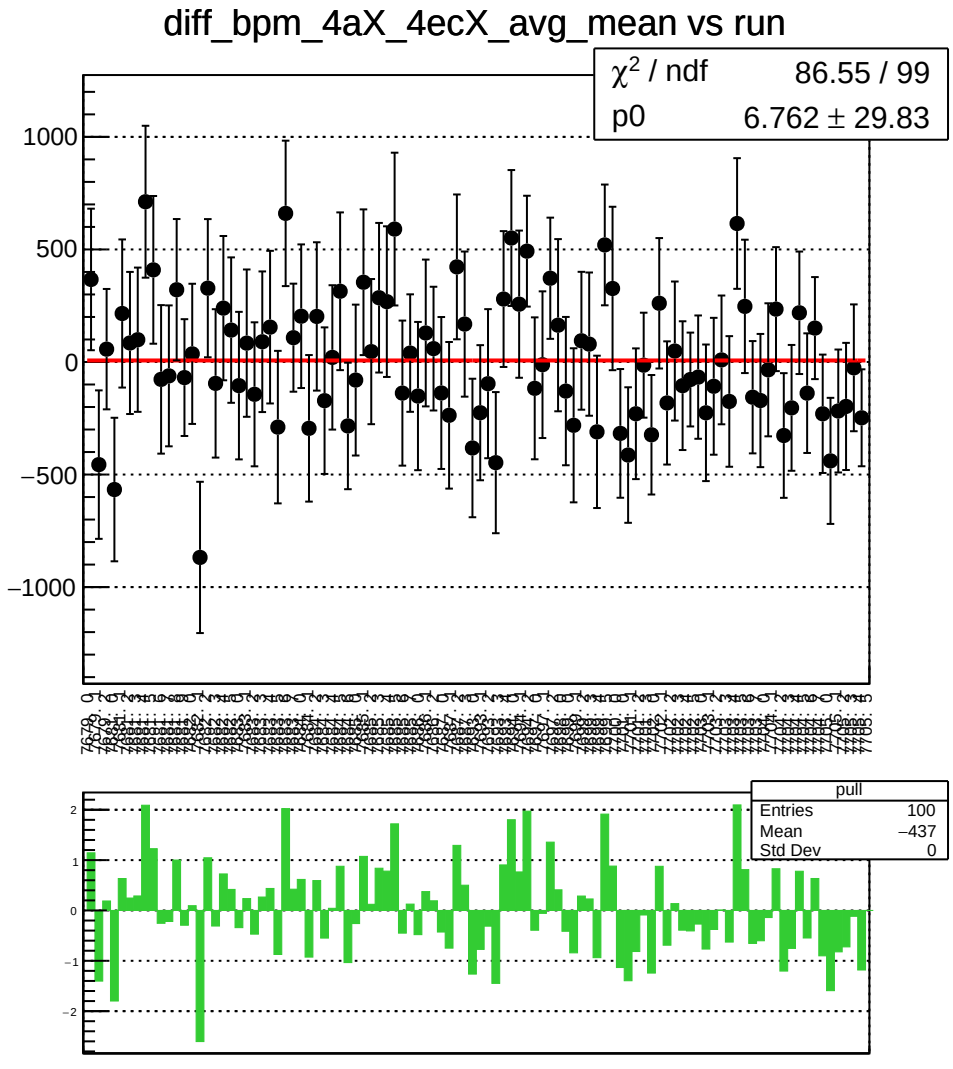

pull1D
Entries 100
Mean 0.009962
Std Dev 0.929
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

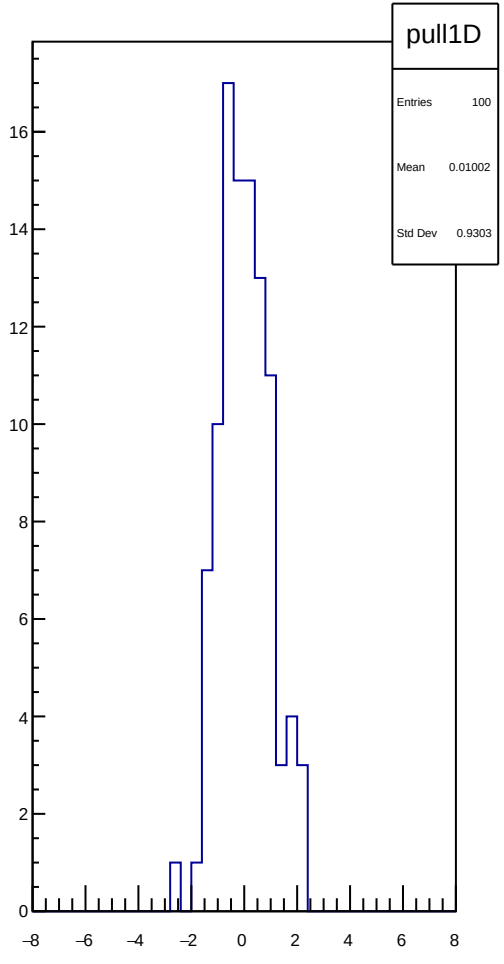

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 1.019e+04 / 99
p0 2.902e+04 ± 20.97
34000
32000
30000
28000
26000
24000

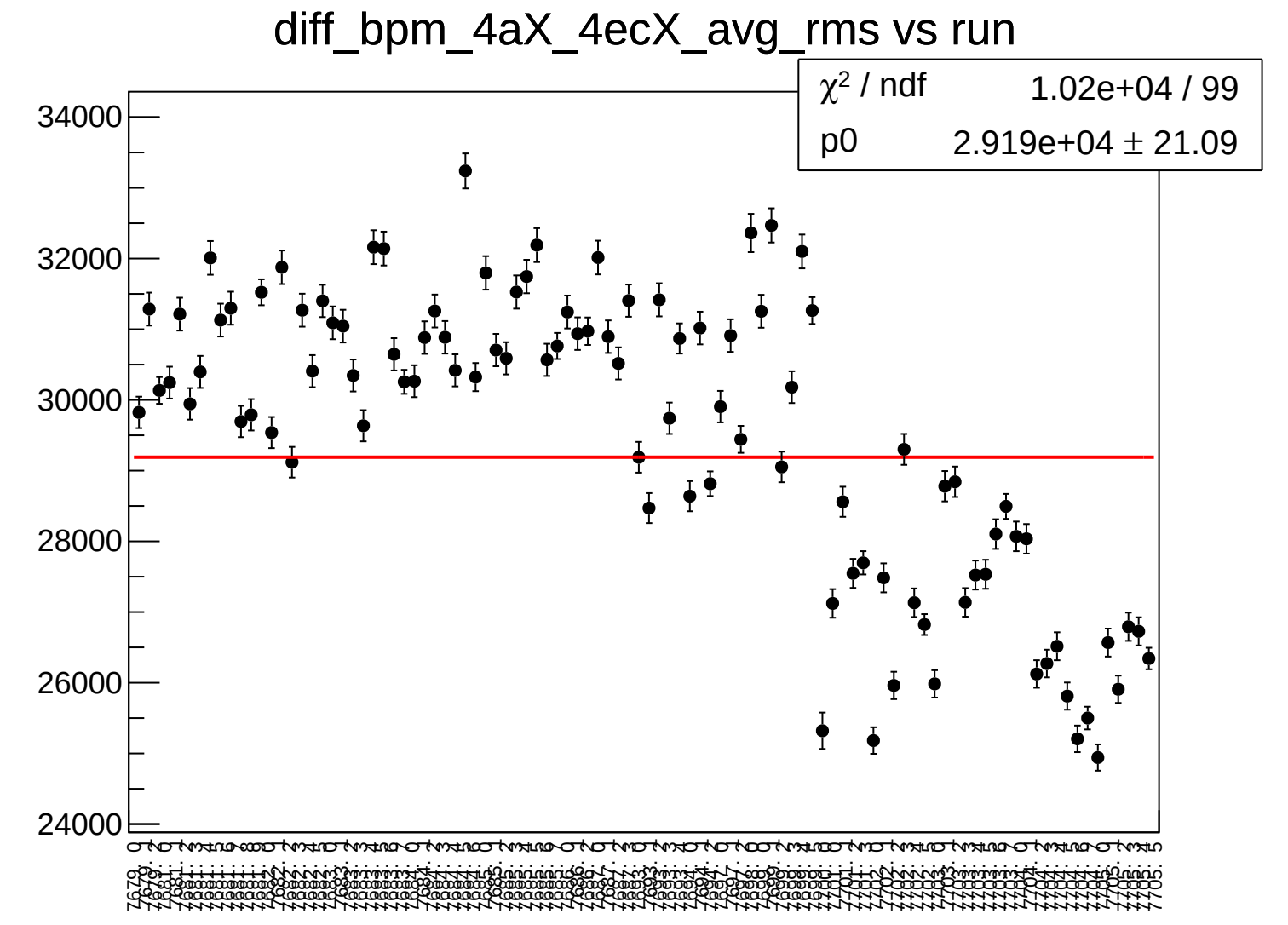

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 89.18 / 99
p0 −1.037 ± 1.152
pull
Entries 100
Mean −22.88
Std Dev 0

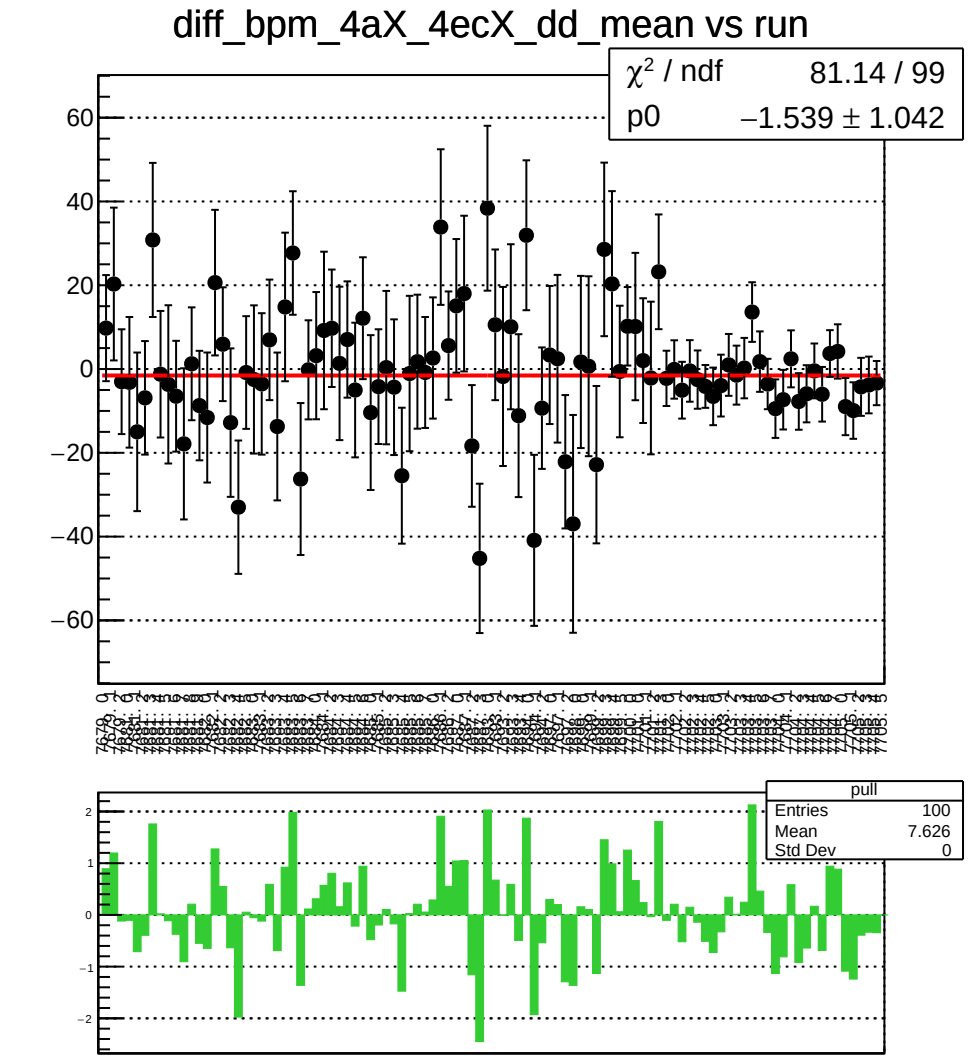

pull1D
Entries 100
Mean 0.04046
Std Dev 0.9435

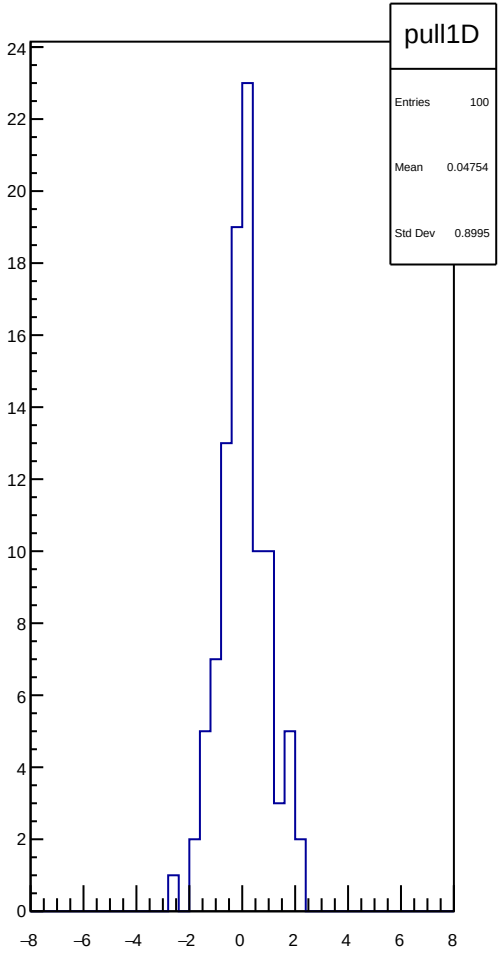

diff_bpm_4aX_4eX_dd_rms vs run
χ^2 / ndf 2.111e+05 / 99
p0 1066 ± 0.8145
2200
2000
1800
1600
1400
1200
1000
800
600

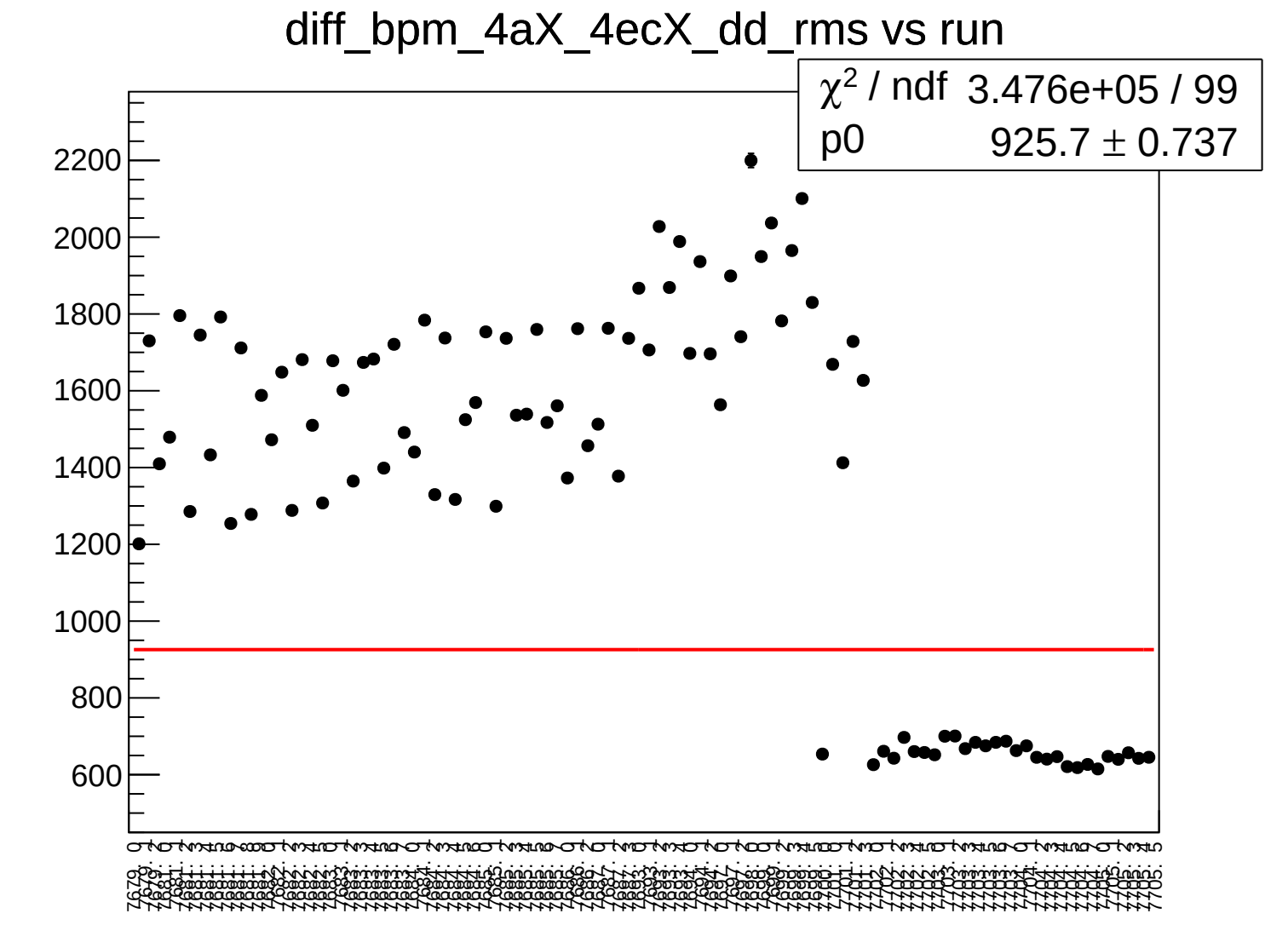

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 86.55 / 99
p0 6.762 ± 29.83
1000
500
0
−500
−1000
pull
Entries 100
Mean −437
Std Dev 0
2
1
0
−1
−2

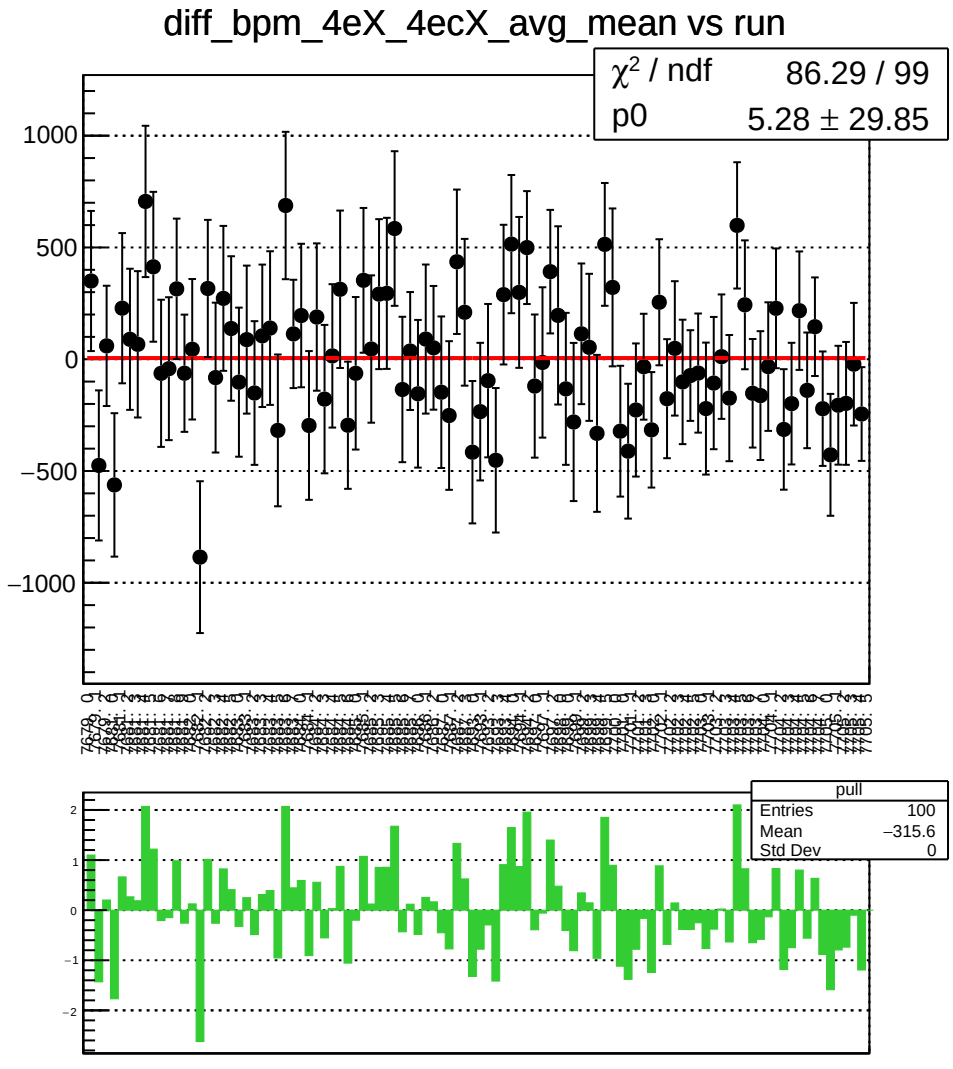

pull1D
Entries 100
Mean 0.01002
Std Dev 0.9303
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

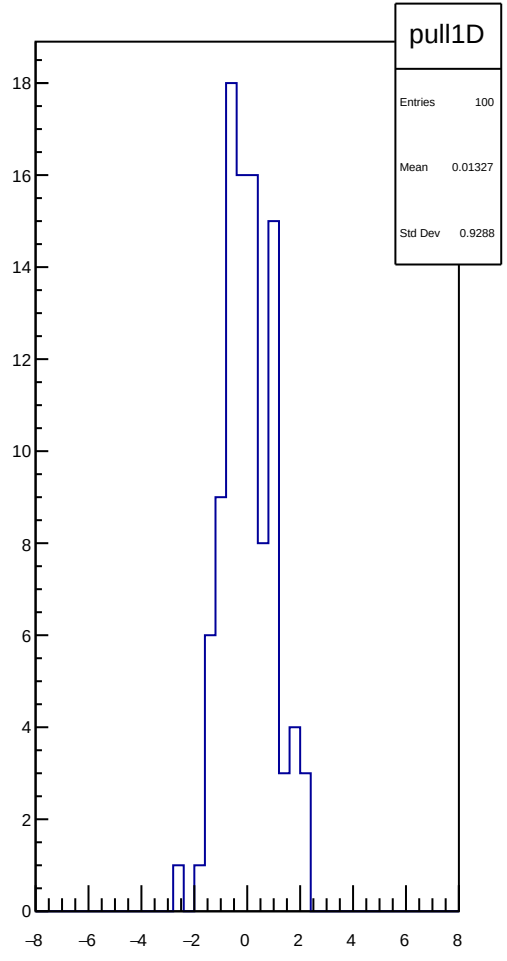

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 1.02e+04 / 99
p0 2.919e+04 ± 21.09
34000
32000
30000
28000
26000
24000

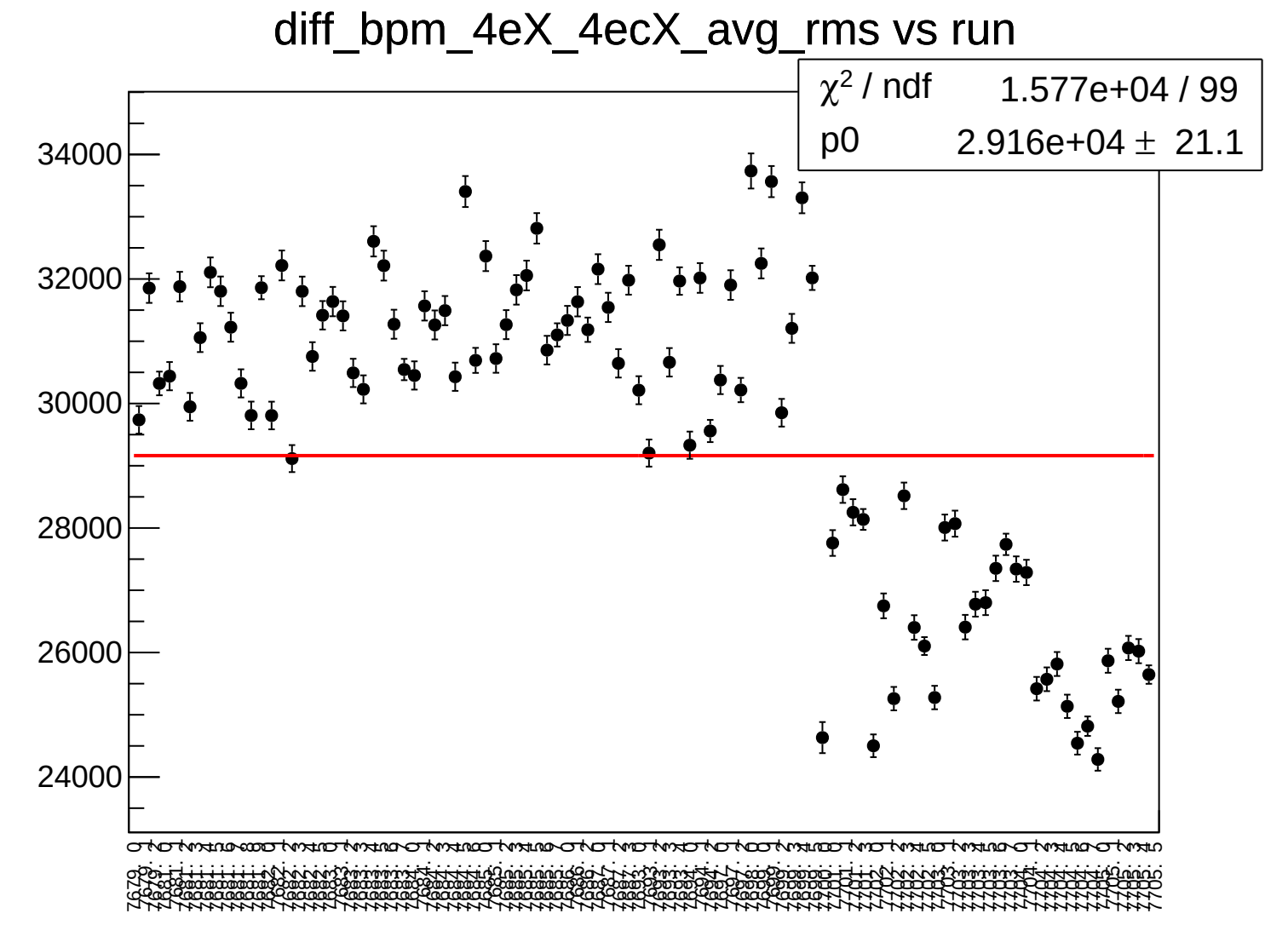

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 81.14 / 99
p0 −1.539 ± 1.042
pull
Entries 100
Mean 7.626
Std Dev 0

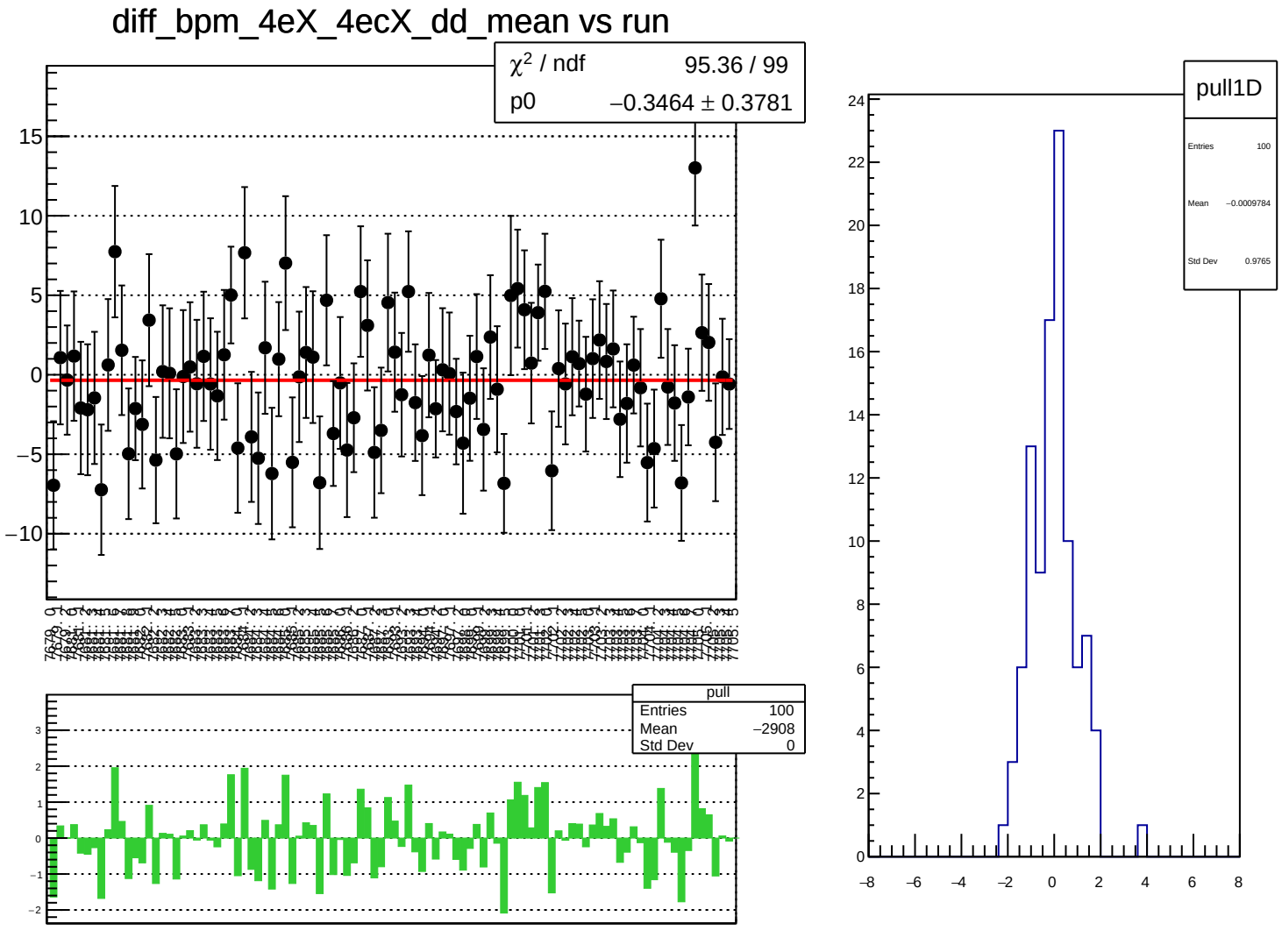

pull1D
Entries 100
Mean 0.04754
Std Dev 0.8995

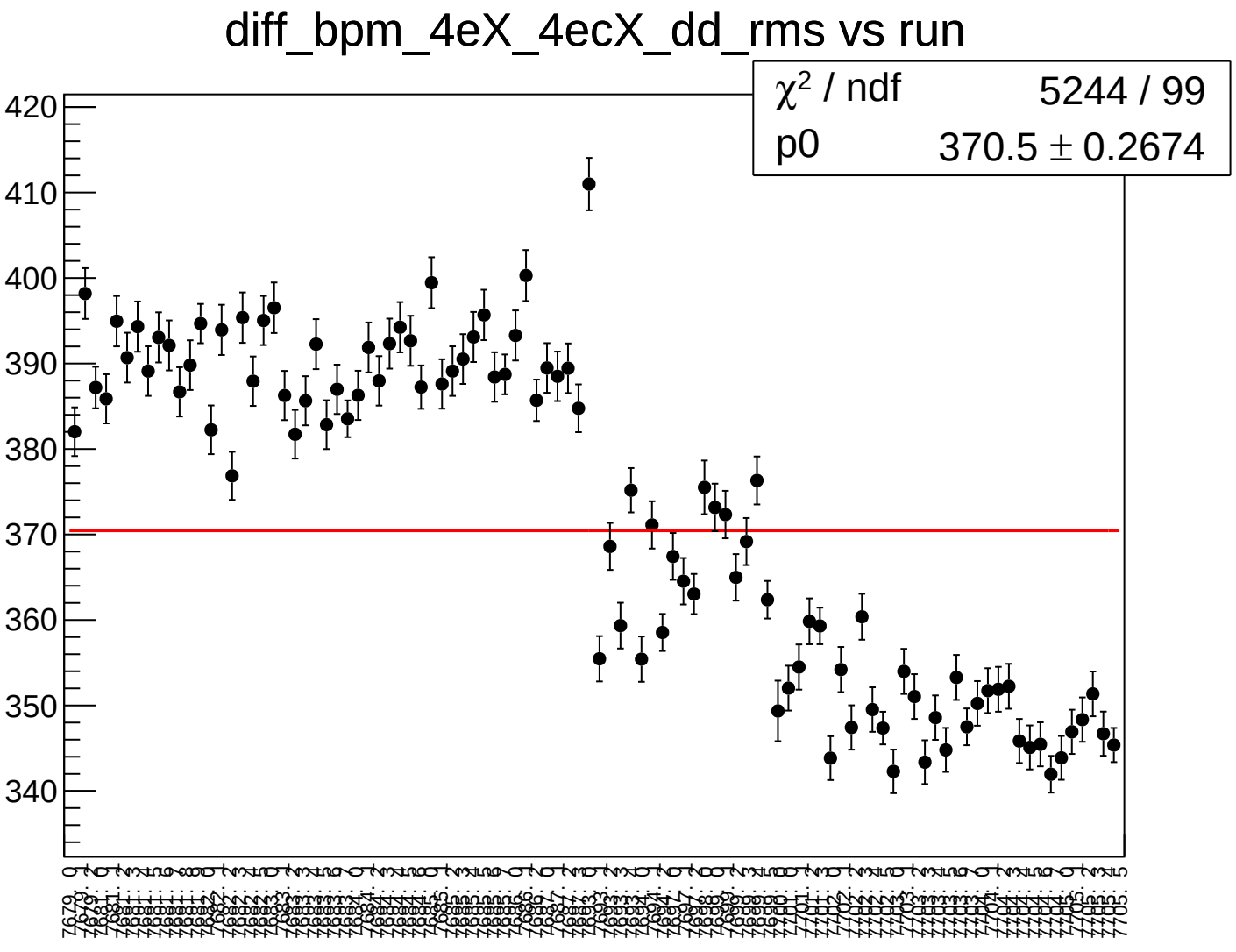

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 3.476e+05 / 99
p0 925.7 ± 0.737
2200
2000
1800
1600
1400
1200
1000
800
600

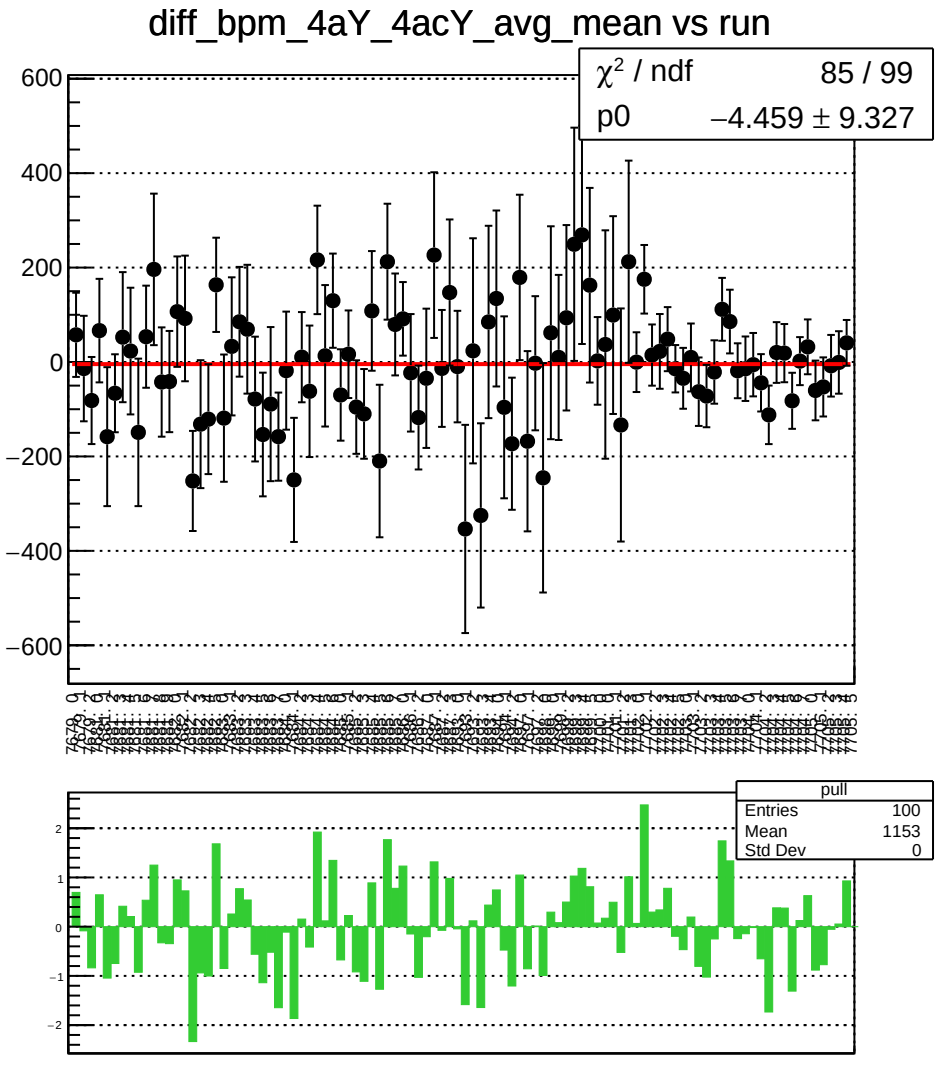

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 86.29 / 99
p0 5.28 ± 29.85
1000
500
0
−500
−1000
pull
Entries 100
Mean −315.6
Std Dev 0
2
1
0
−1
−2

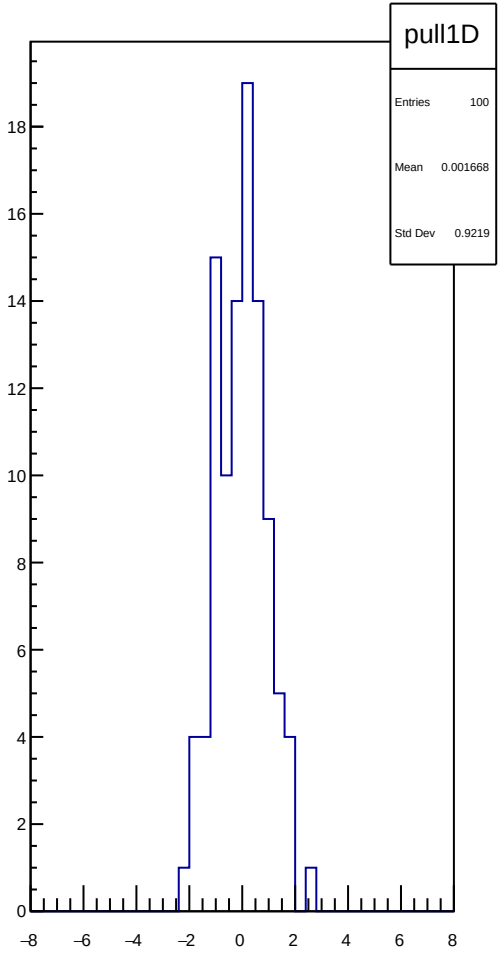

pull1D
Entries 100
Mean 0.01327
Std Dev 0.9288
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

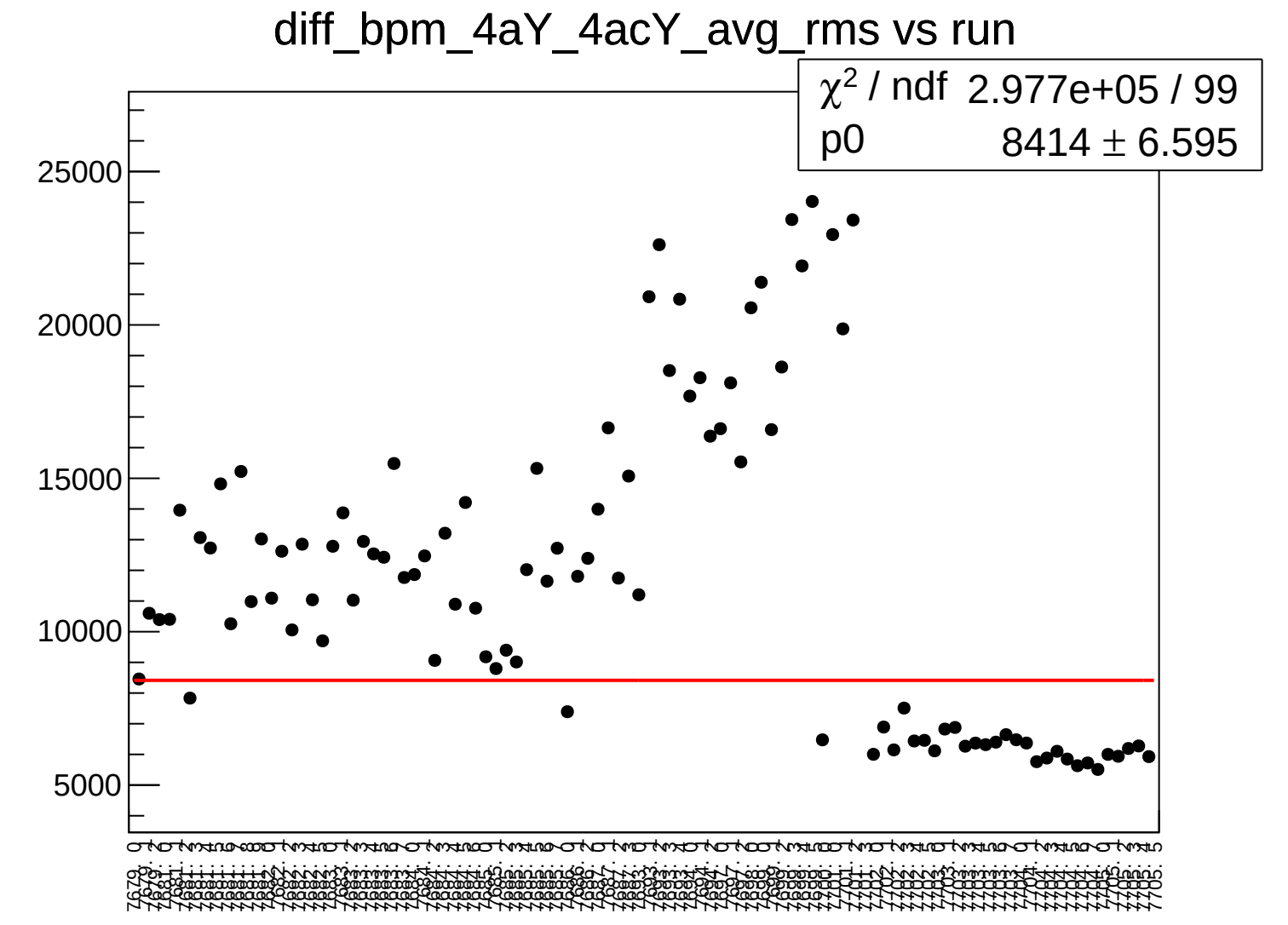

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 1.577e+04 / 99
p0 2.916e+04 ± 21.1
34000
32000
30000
28000
26000
24000

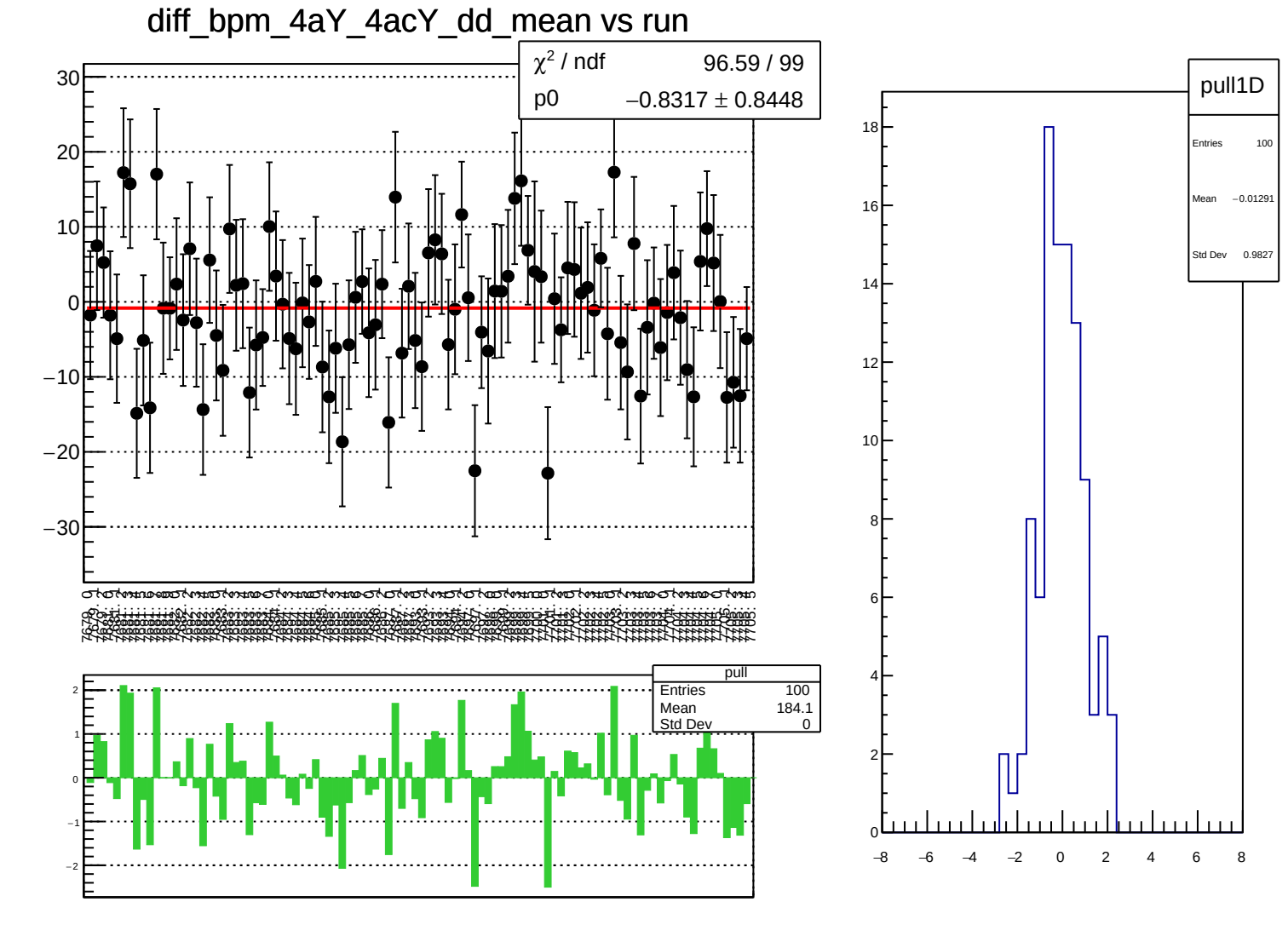

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 95.36 / 99
p0 −0.3464 ± 0.3781
pull
Entries 100
Mean −2908
Std Dev 0
pull1D
Entries 100
Mean −0.0009784
Std Dev 0.9765

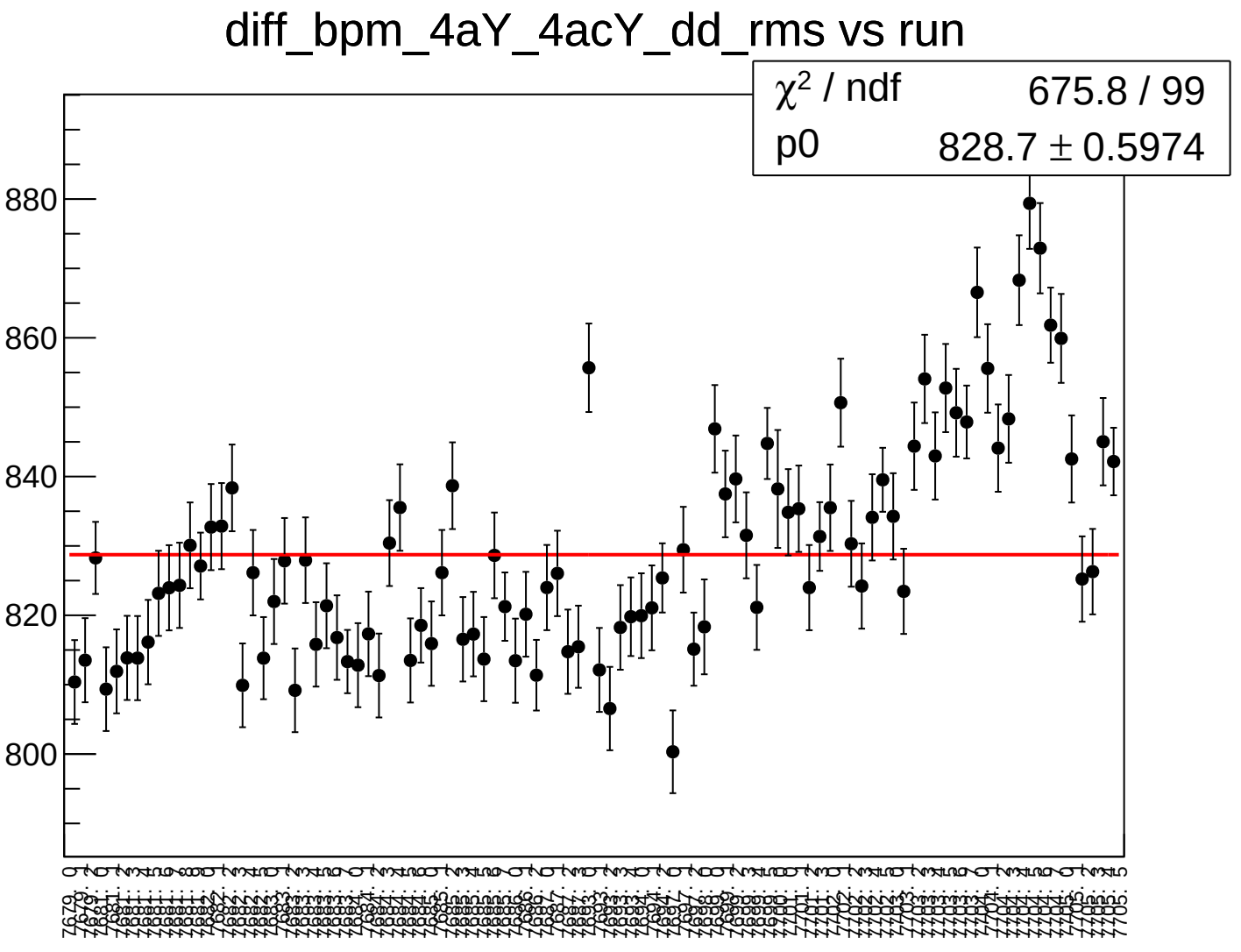

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 5244 / 99
p0 370.5 ± 0.2674
420
410
400
390
380
370
360
350
340

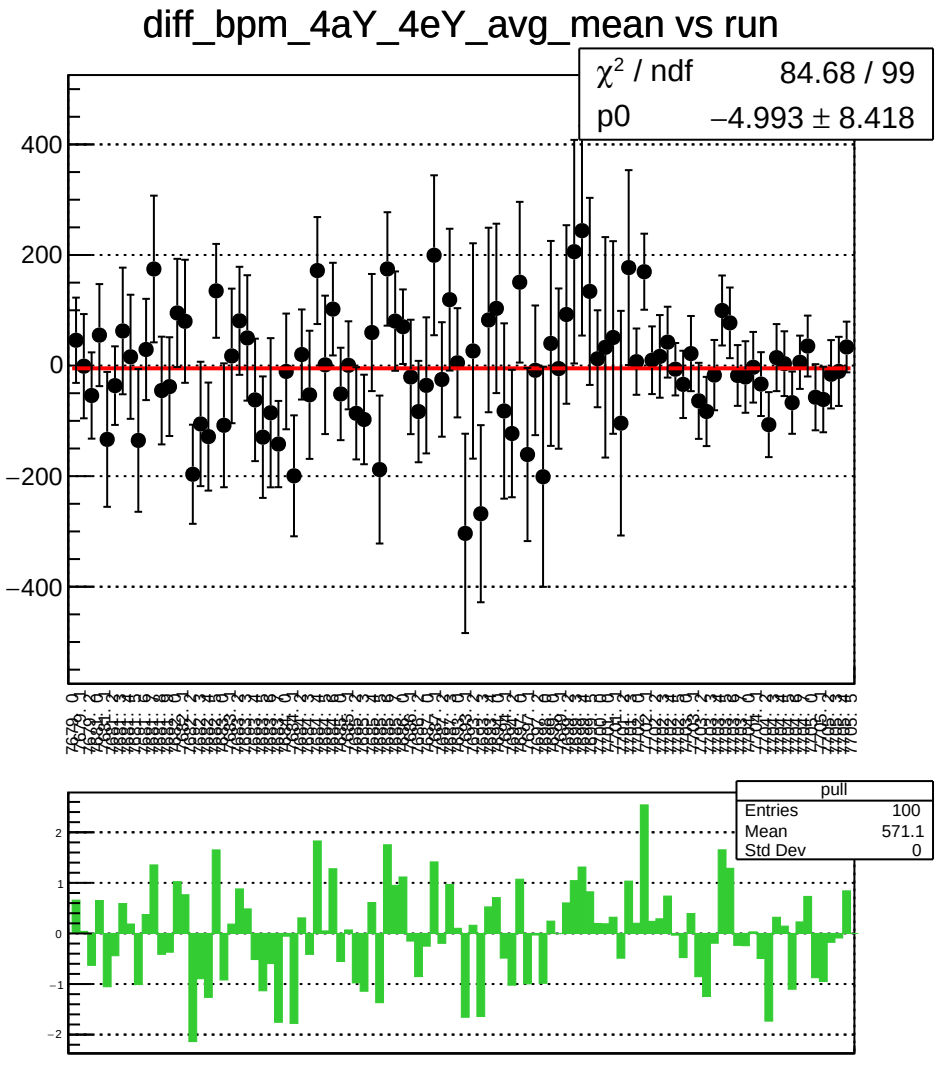

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 85 / 99
p0 −4.459 ± 9.327
pull
Entries 100
Mean 1153
Std Dev 0

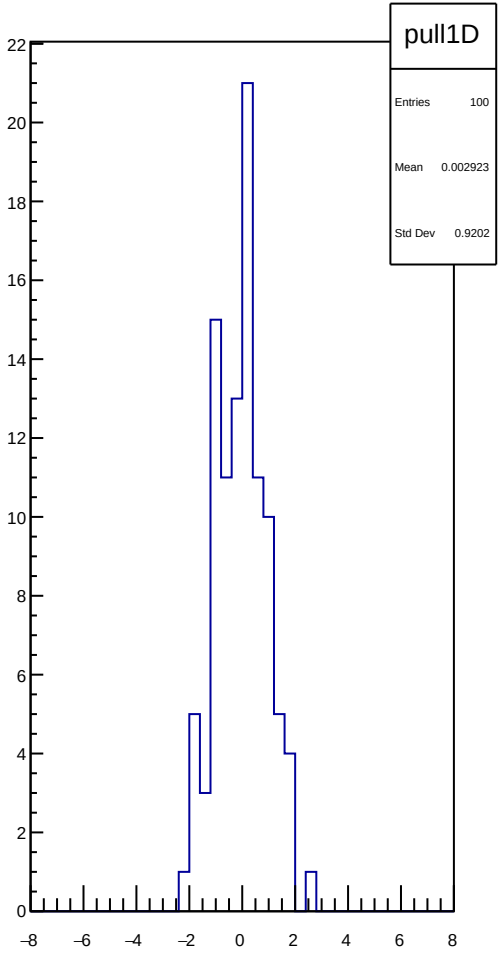

pull1D
Entries 100
Mean 0.001668
Std Dev 0.9219

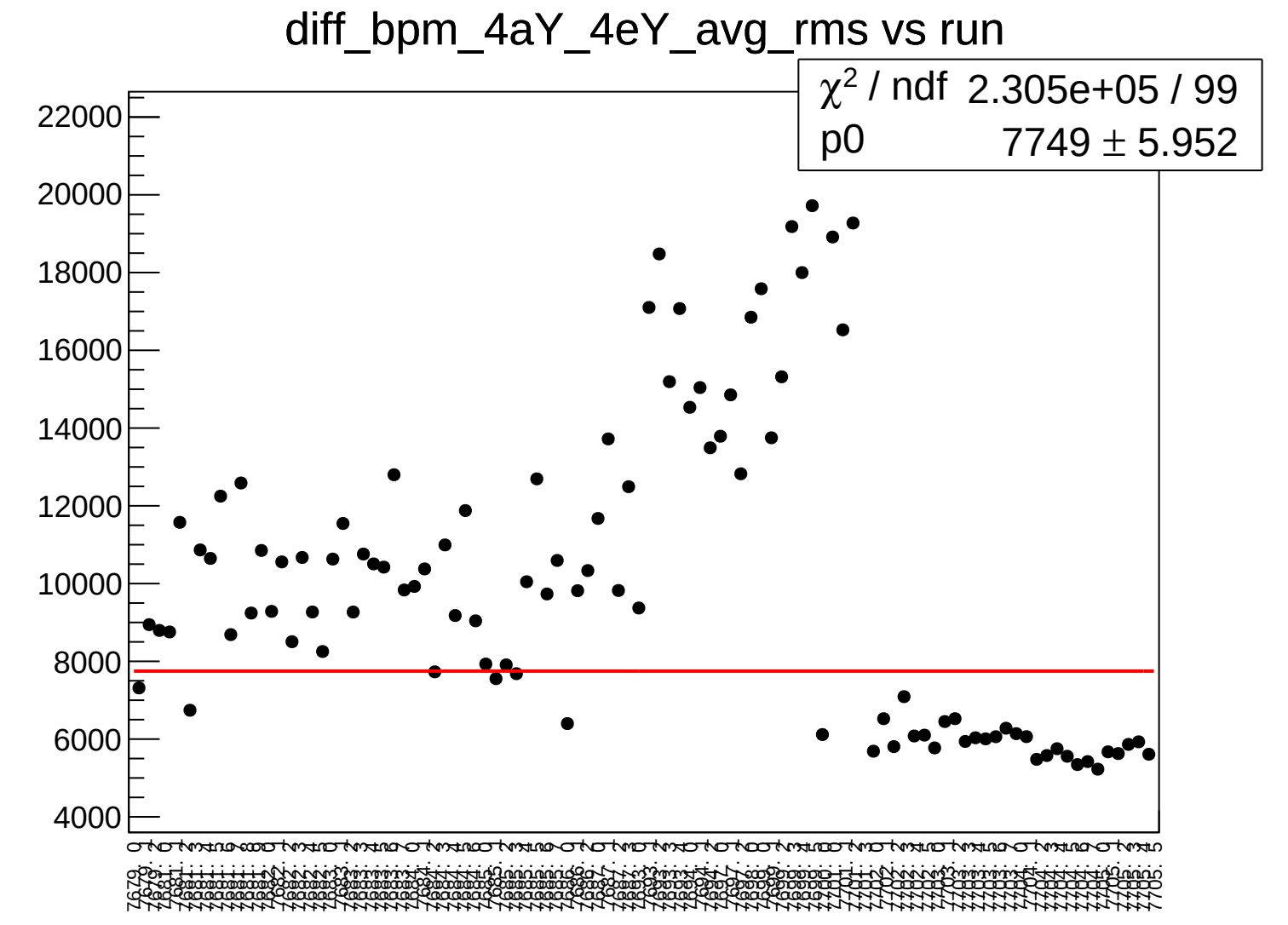

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 2.977e+05 / 99
p0 8414 ± 6.595
25000
20000
15000
10000
5000

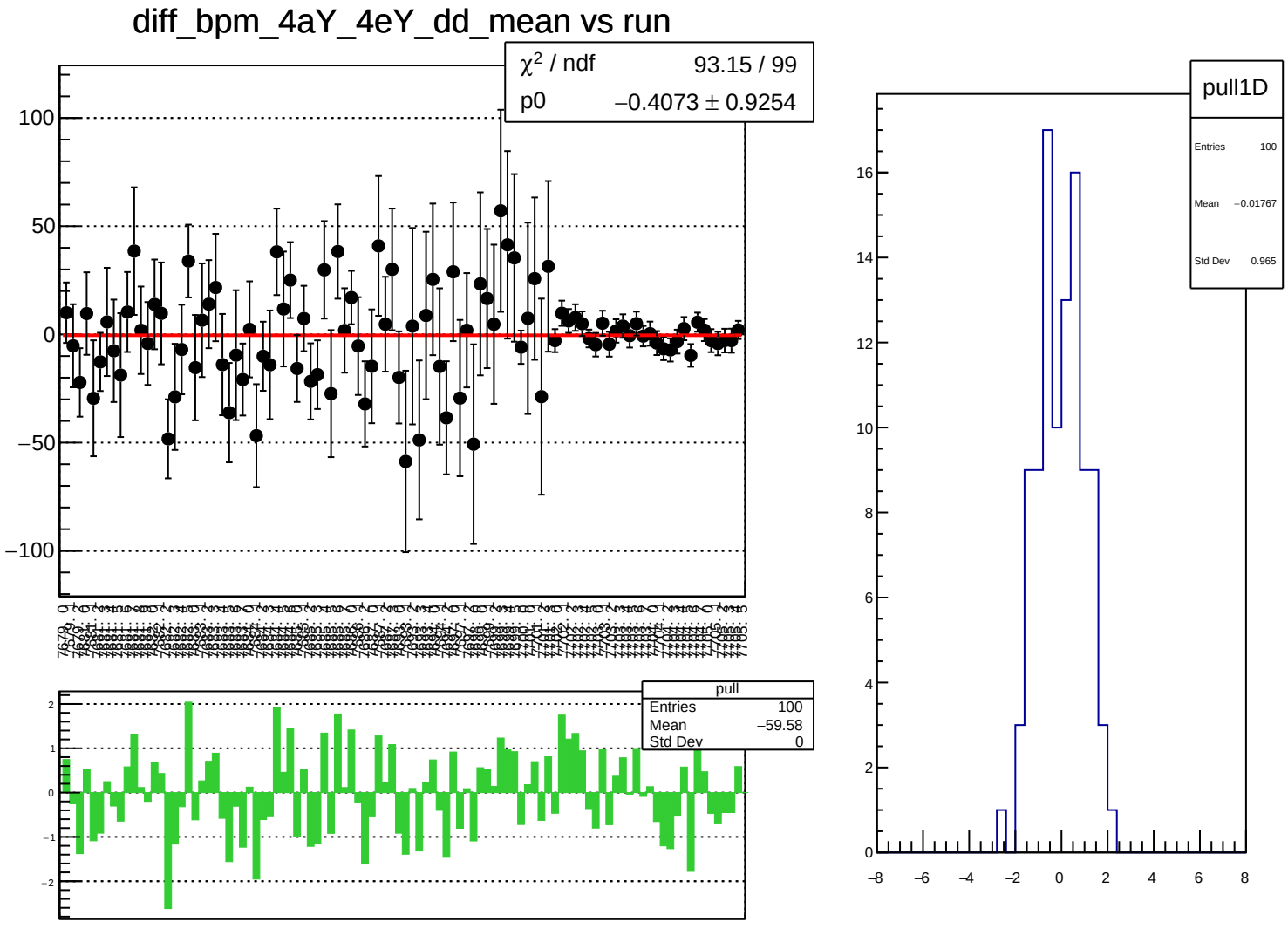

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 96.59 / 99
p0 −0.8317 ± 0.8448
pull
Entries 100
Mean 184.1
Std Dev 0
pull1D
Entries 100
Mean −0.01291
Std Dev 0.9827

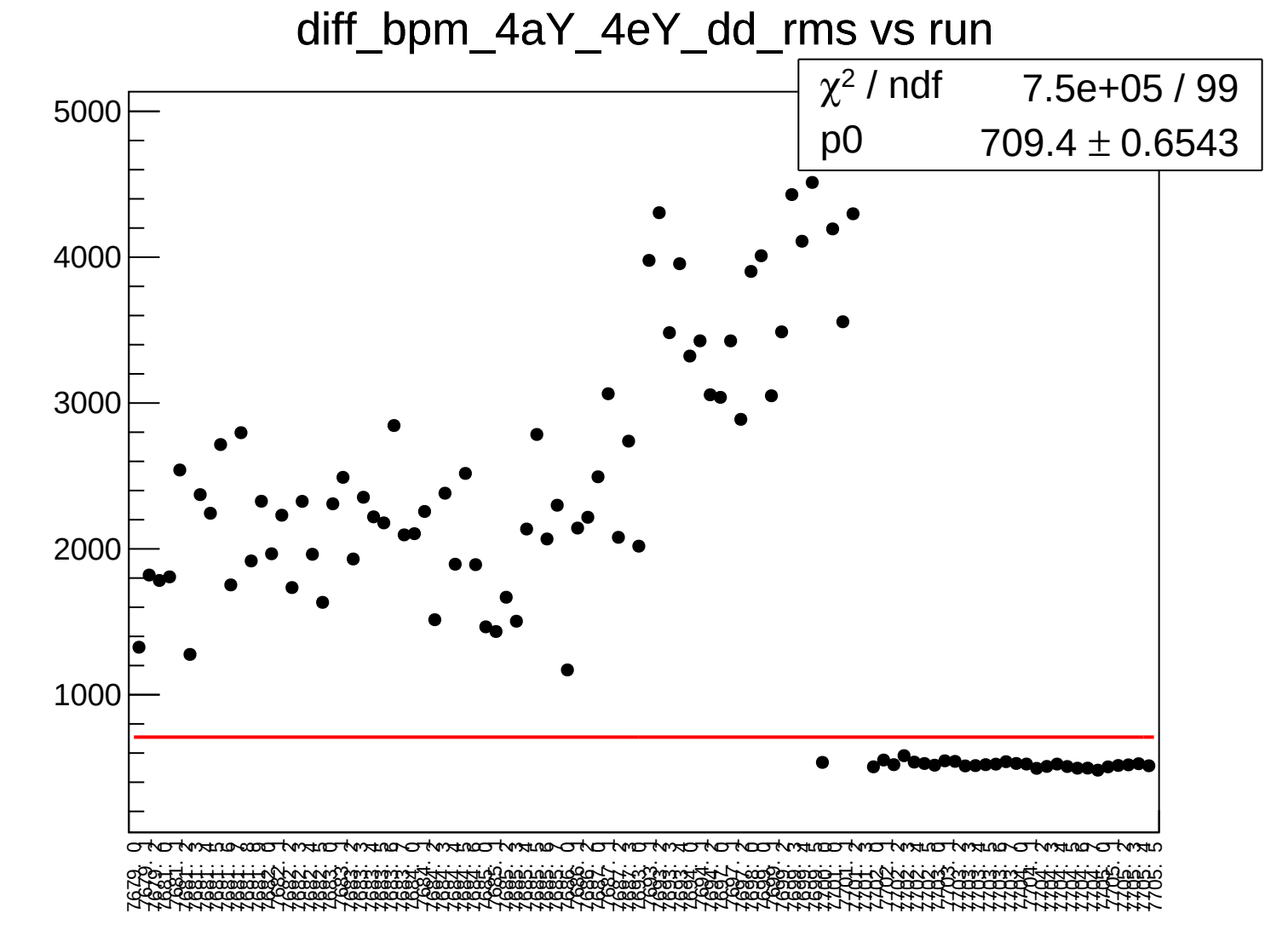

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 675.8 / 99
p0 828.7 ± 0.5974
880
860
840
820
800

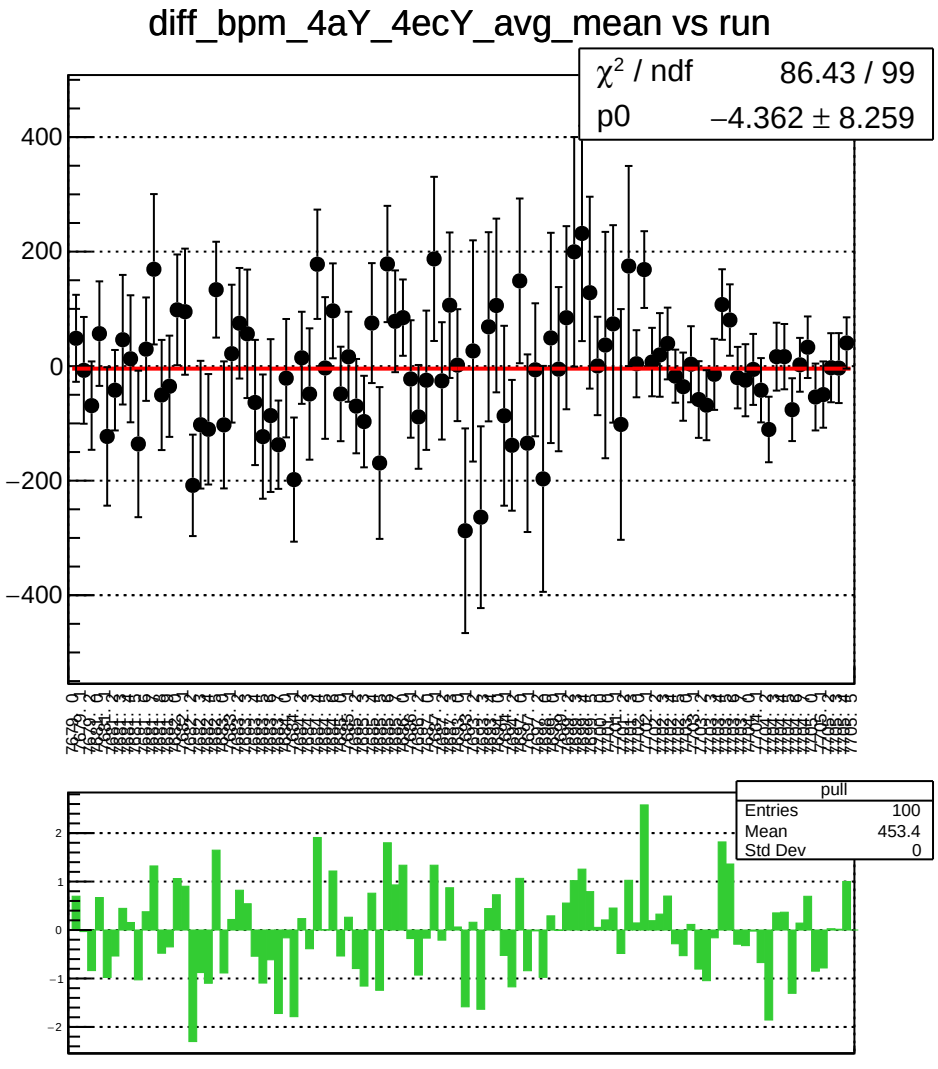

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 84.68 / 99
p0 −4.993 ± 8.418
400
200
0
−200
−400
pull
Entries 100
Mean 571.1
Std Dev 0
2
1
0
−1
−2

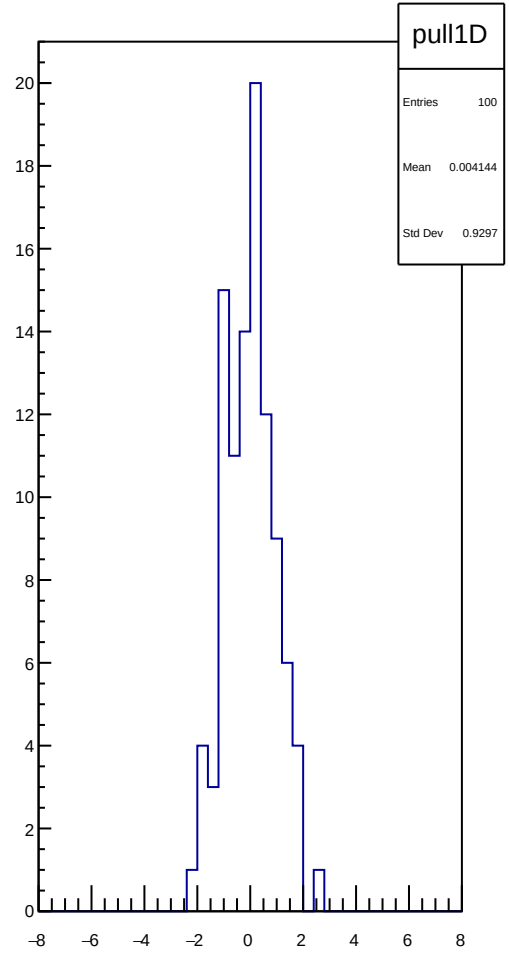

pull1D
Entries 100
Mean 0.002923
Std Dev 0.9202
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

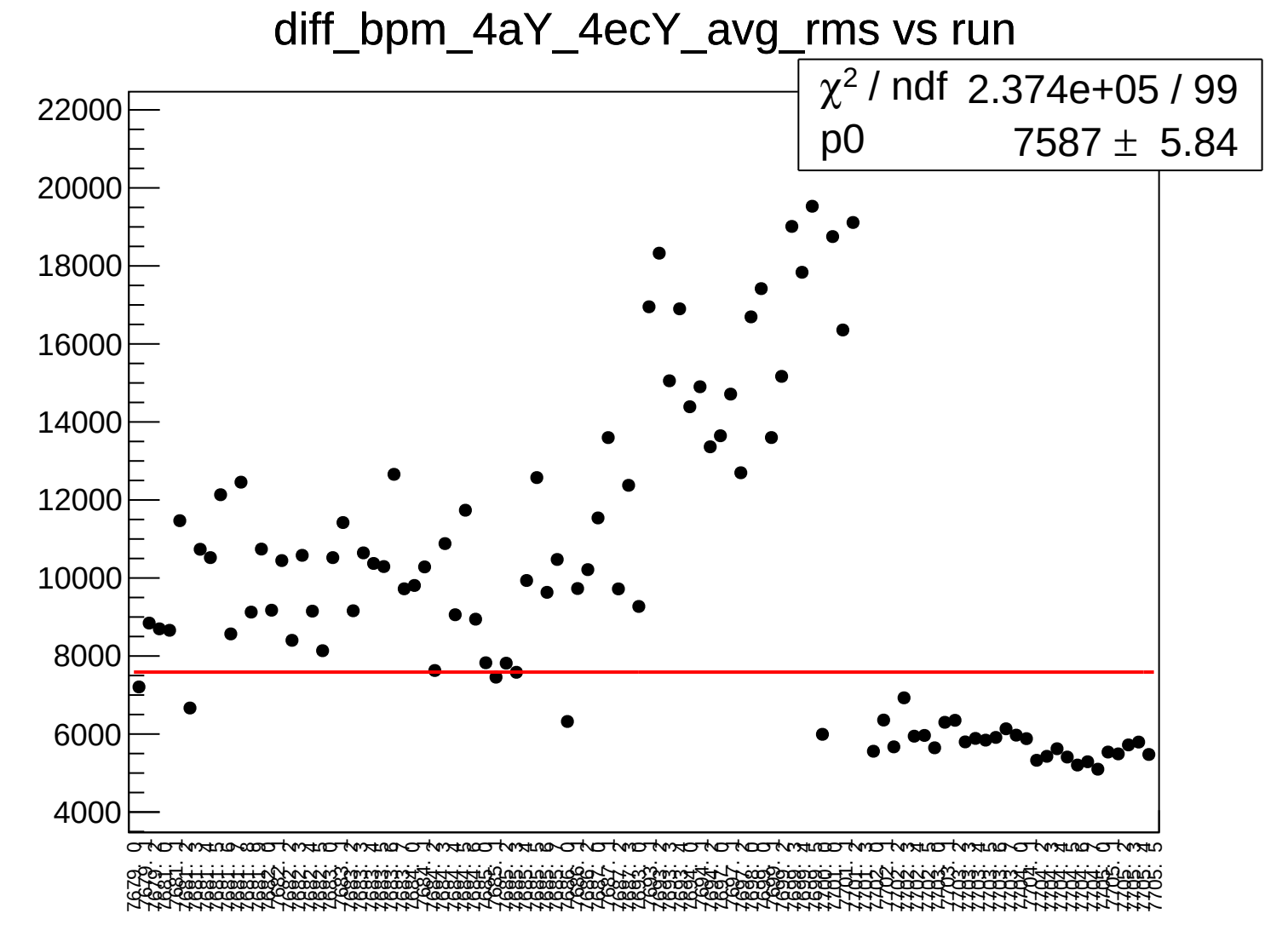

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 2.305e+05 / 99
p0 7749 ± 5.952
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000

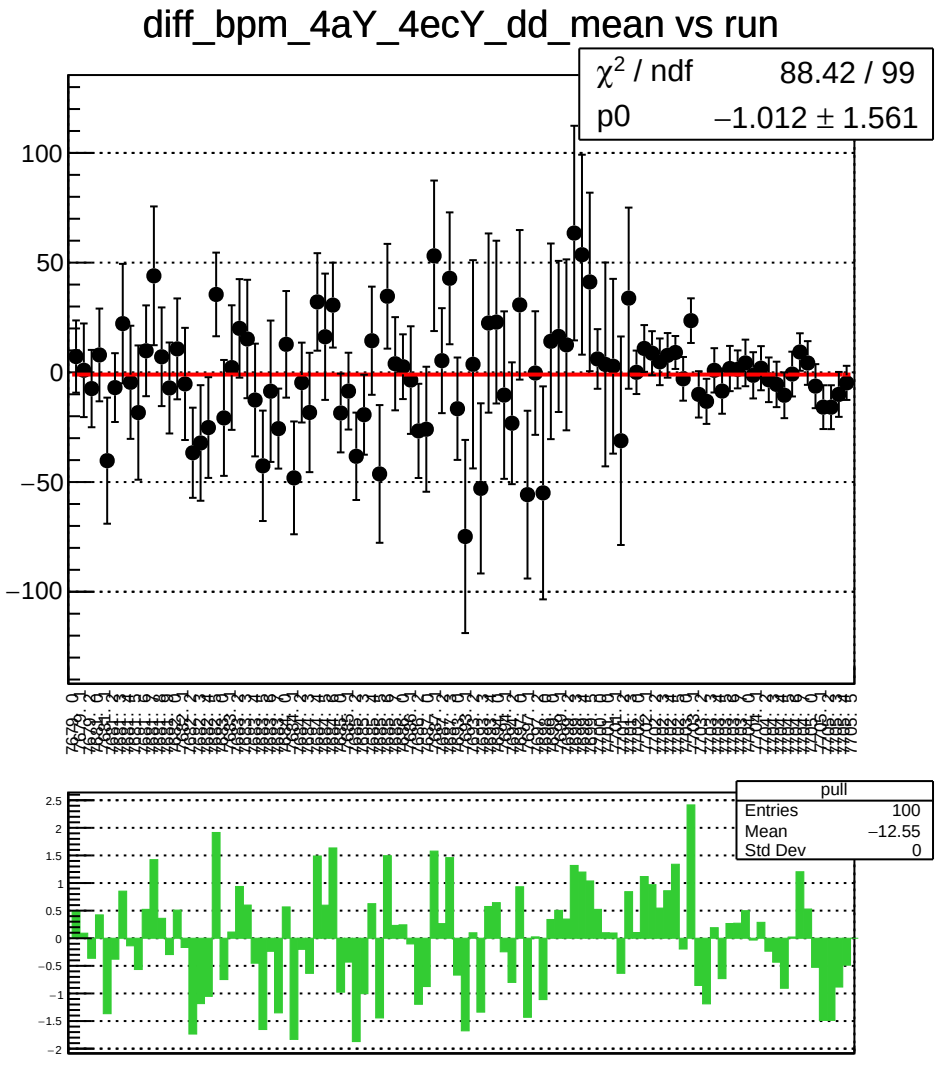

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 93.15 / 99
p0 −0.4073 ± 0.9254
100
50
0
−50
−100
pull
Entries 100
Mean −59.58
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.01767
Std Dev 0.965
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

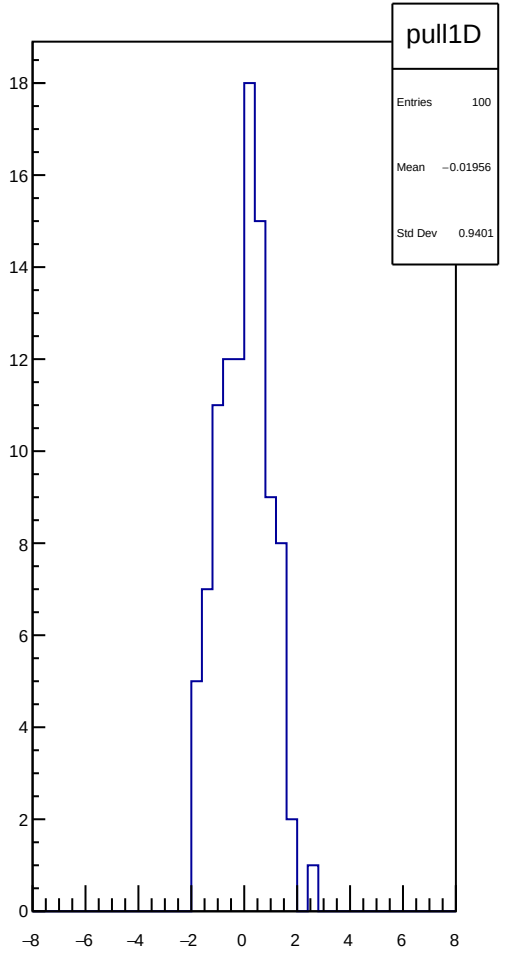

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 7.5e+05 / 99
p0 709.4 ± 0.6543
5000
4000
3000
2000
1000

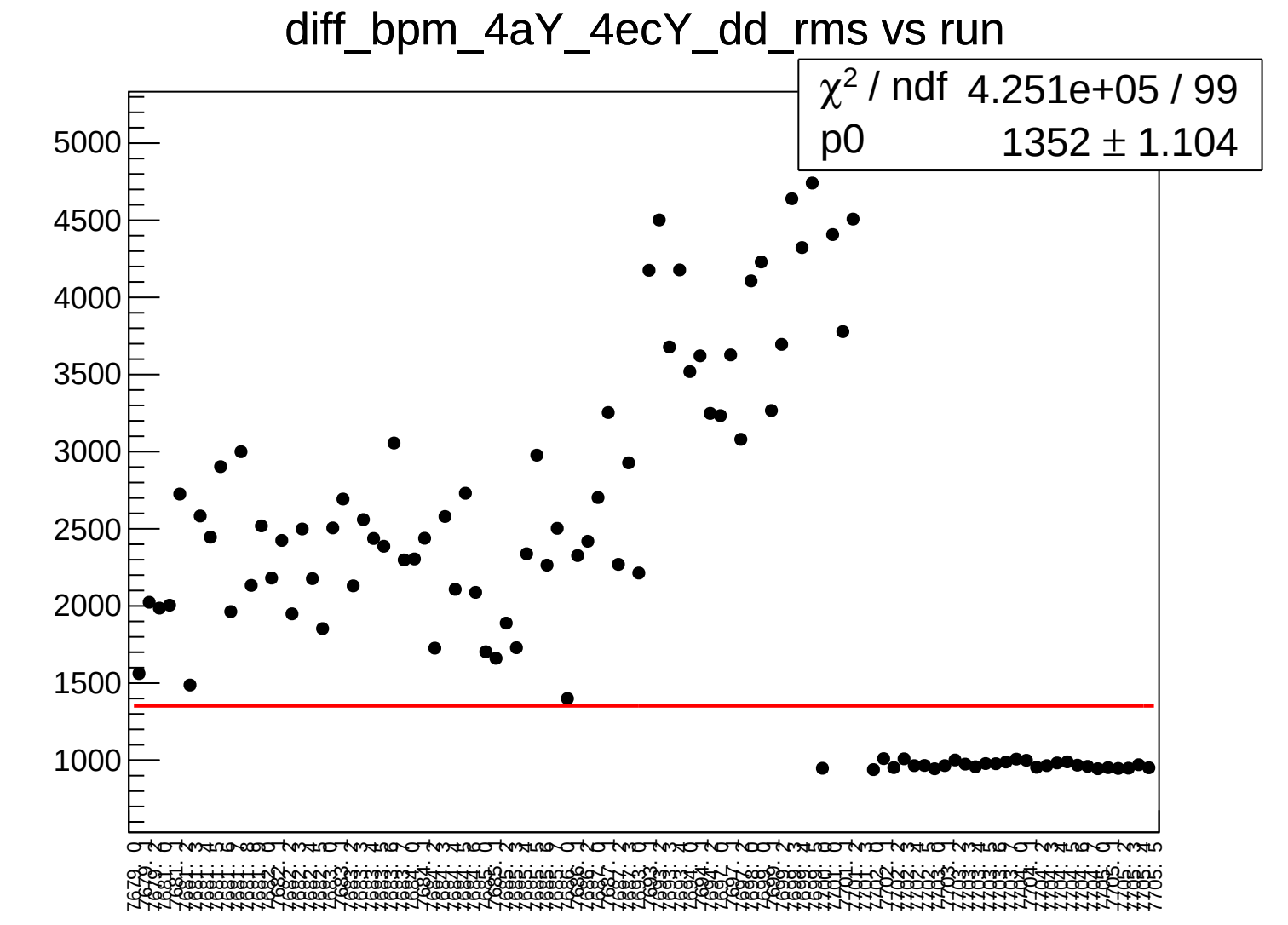

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 86.43 / 99
p0 −4.362 ± 8.259
400
200
0
−200
−400
pull
Entries 100
Mean 453.4
Std Dev 0
2
1
0
−1
−2

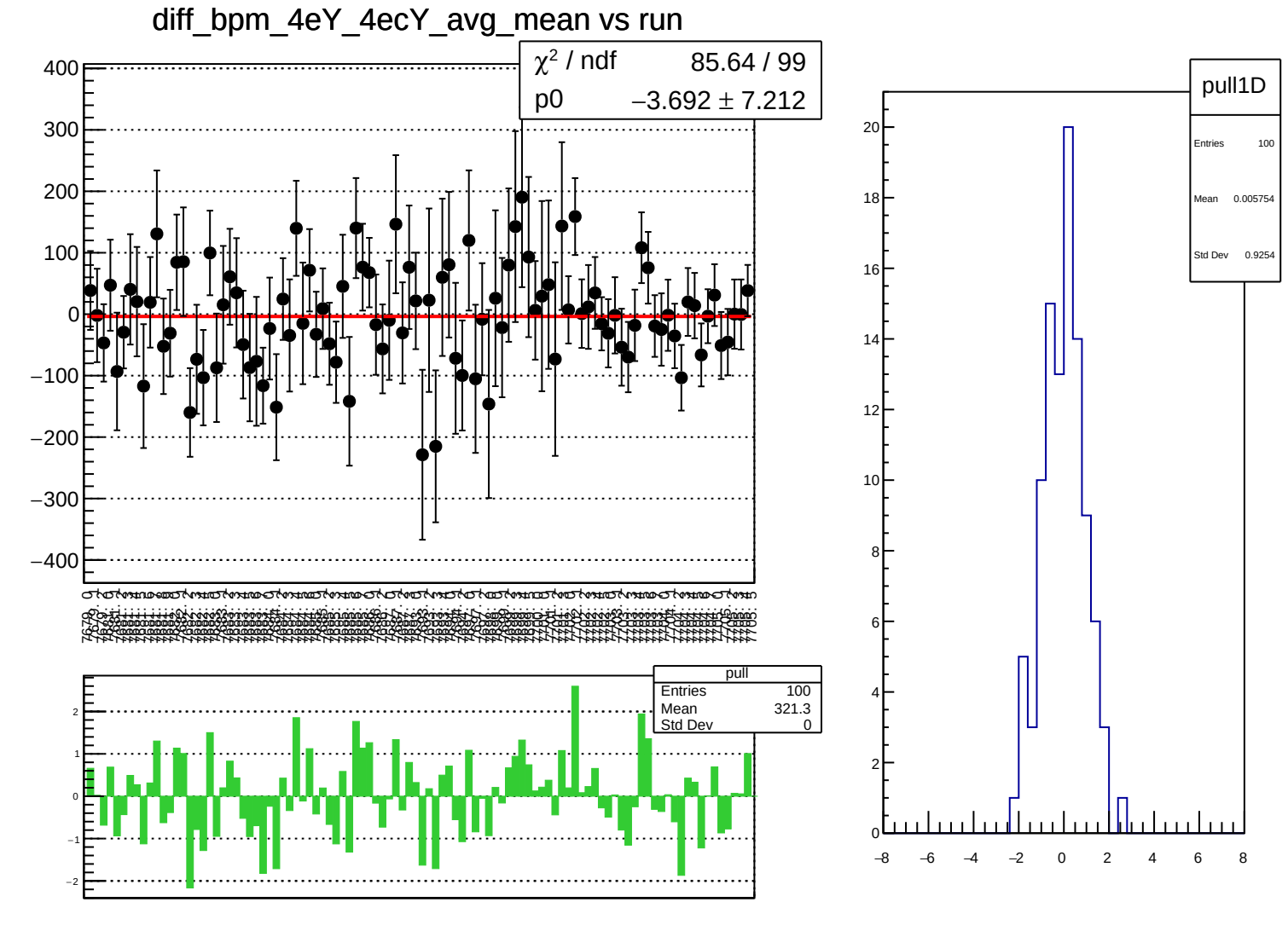

pull1D
Entries 100
Mean 0.004144
Std Dev 0.9297
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

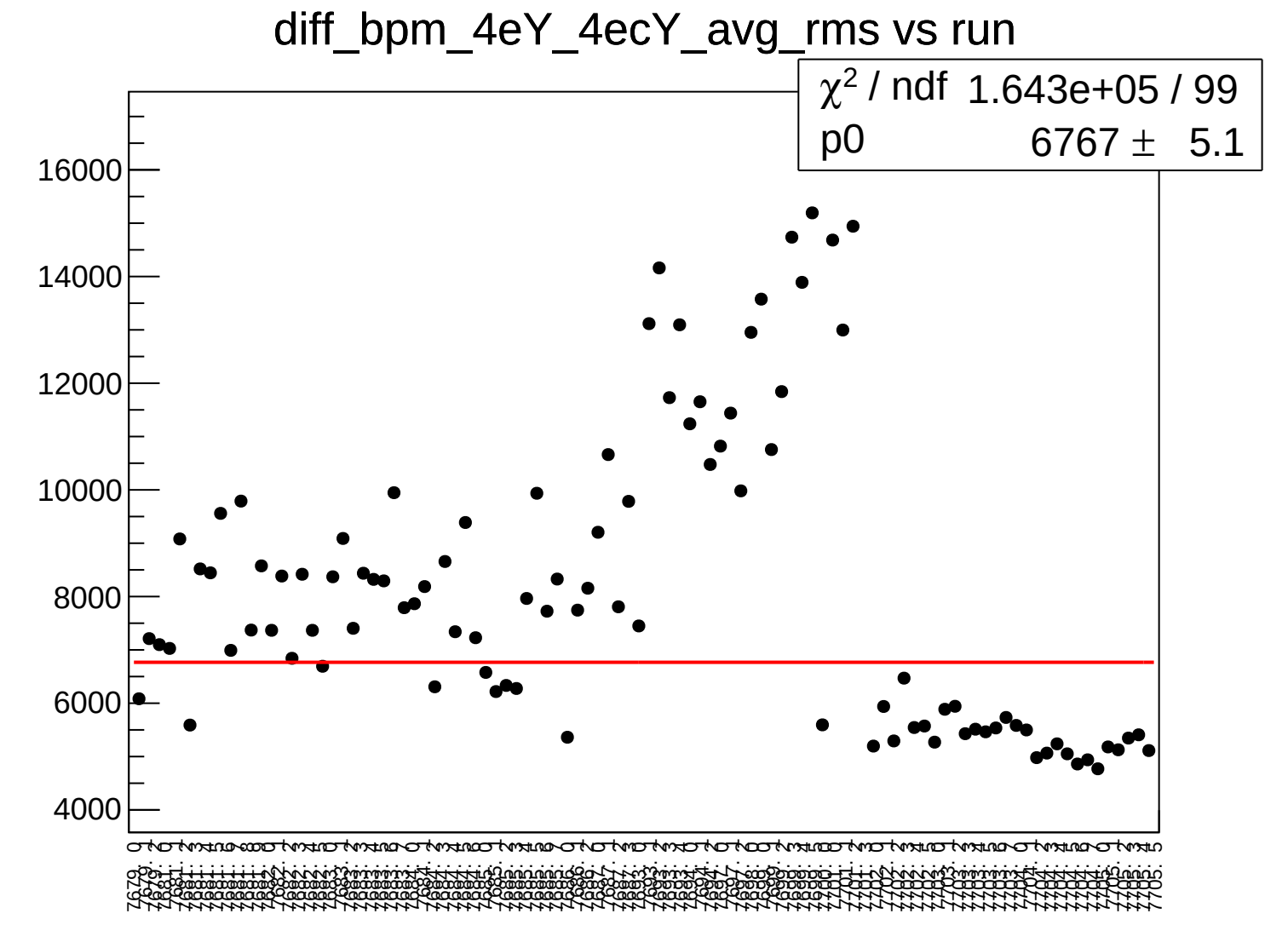

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 2.374e+05 / 99
p0 7587 ± 5.84
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000

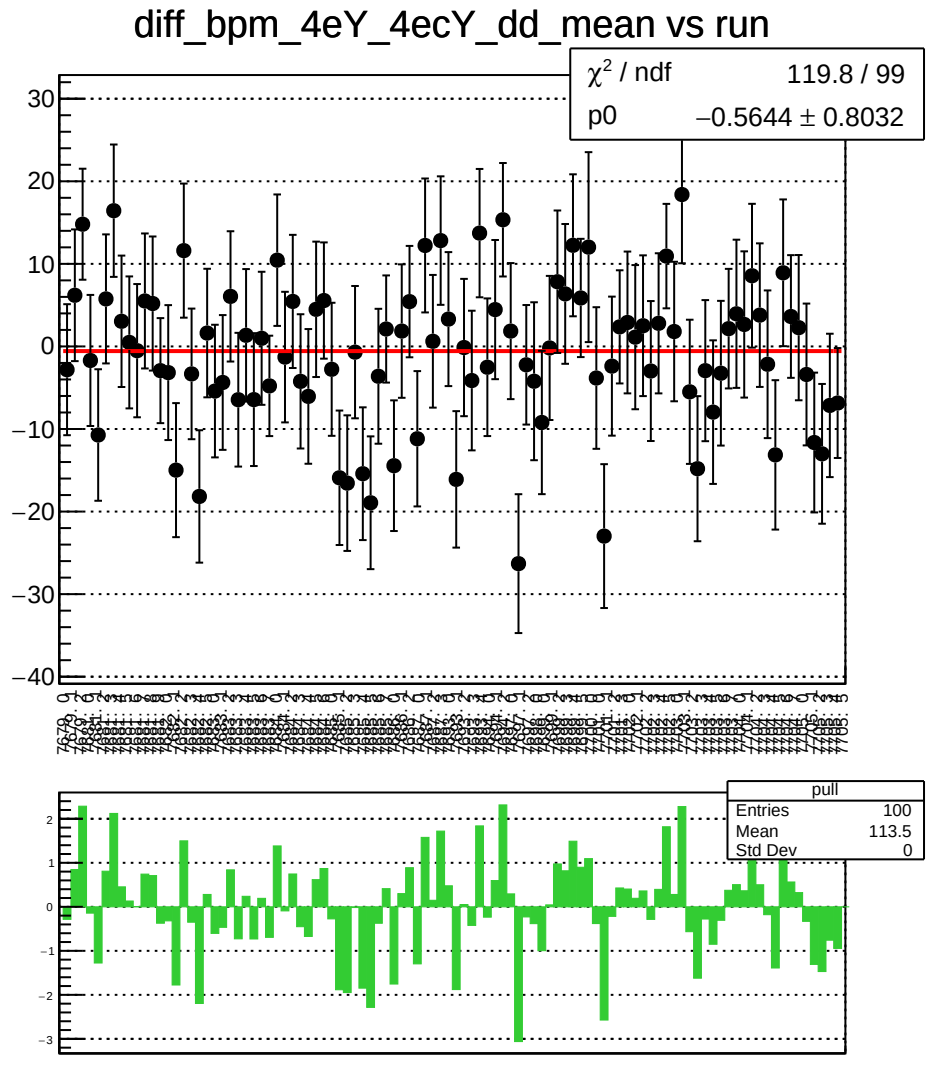

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 88.42 / 99
p0 −1.012 ± 1.561
100
50
0
−50
−100
pull
Entries 100
Mean −12.55
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

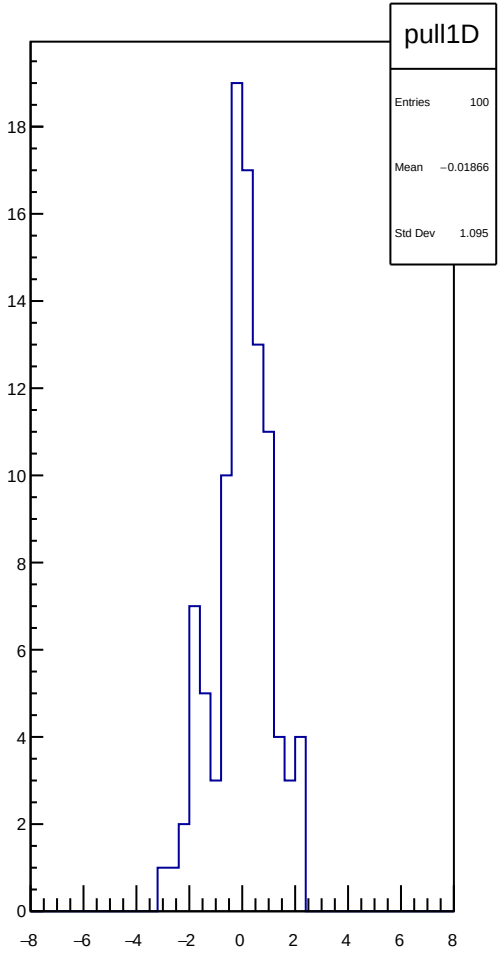

pull1D
Entries 100
Mean −0.01956
Std Dev 0.9401
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

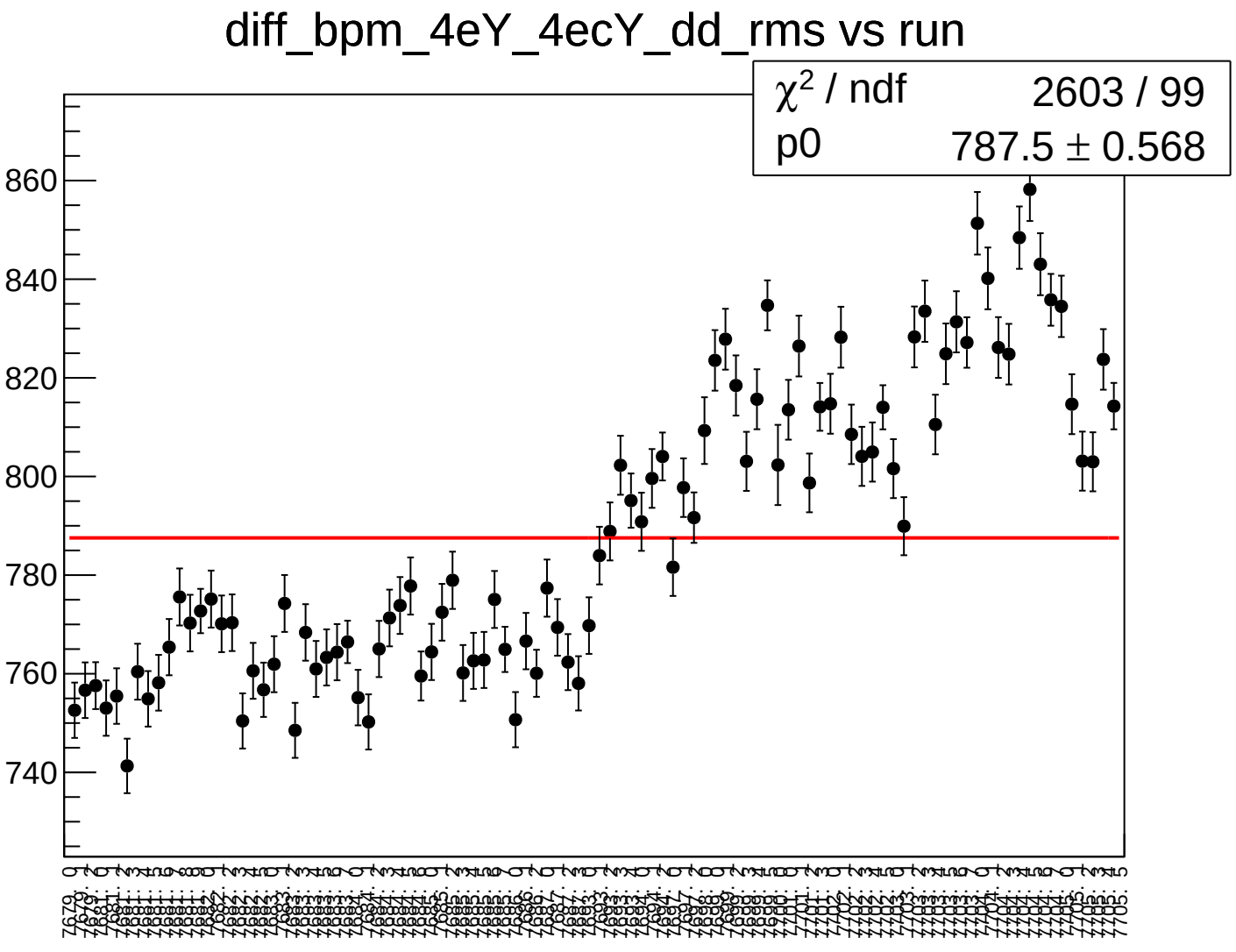

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 4.251e+05 / 99
p0 1352 ± 1.104
5000
4500
4000
3500
3000
2500
2000
1500
1000

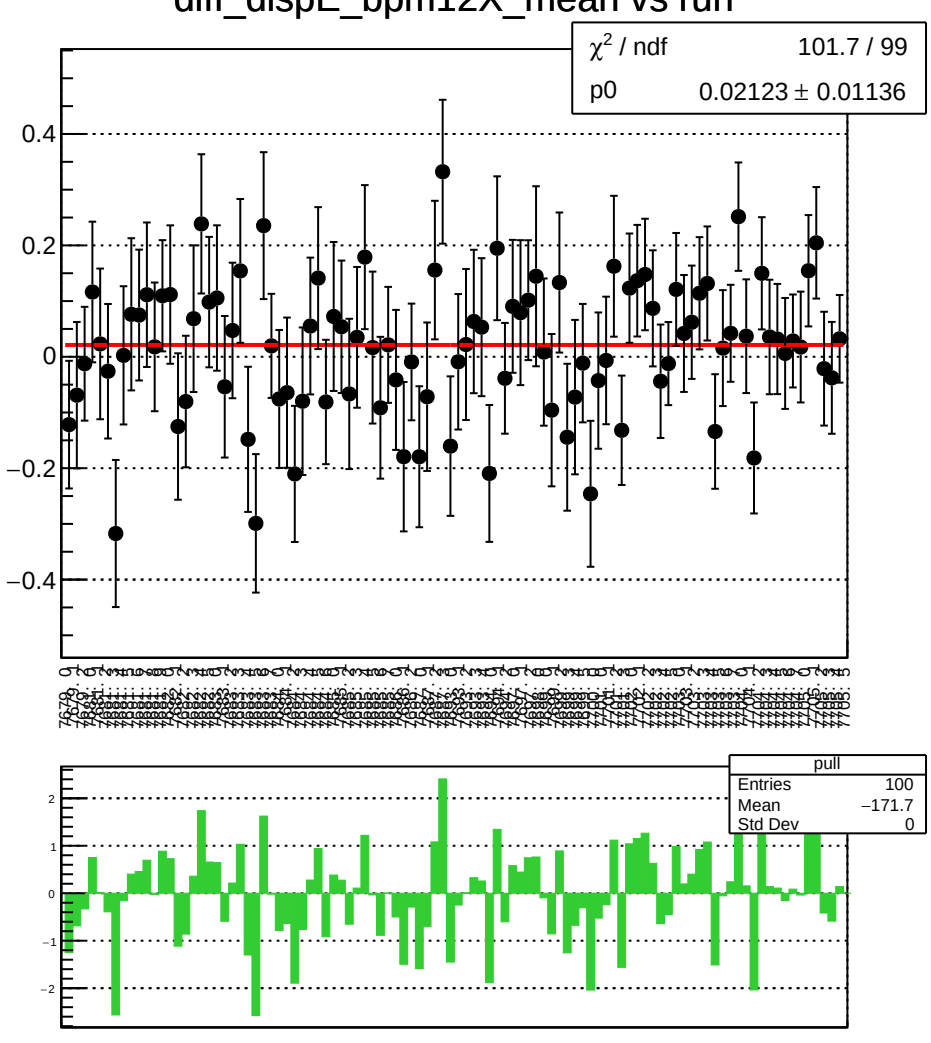

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 85.64 / 99
p0 −3.692 ± 7.212
pull
Entries 100
Mean 321.3
Std Dev 0
pull1D
Entries 100
Mean 0.005754
Std Dev 0.9254

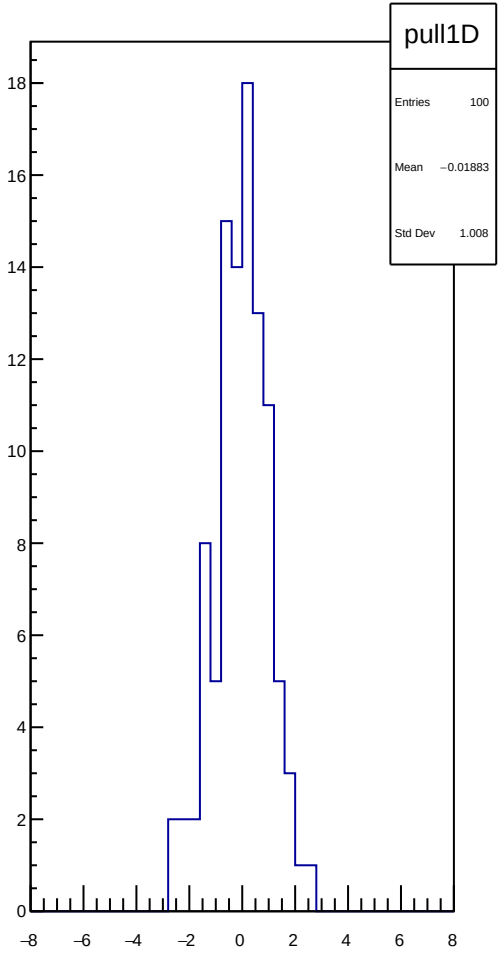

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 1.643e+05 / 99
p0 6767 ± 5.1
16000
14000
12000
10000
8000
6000
4000

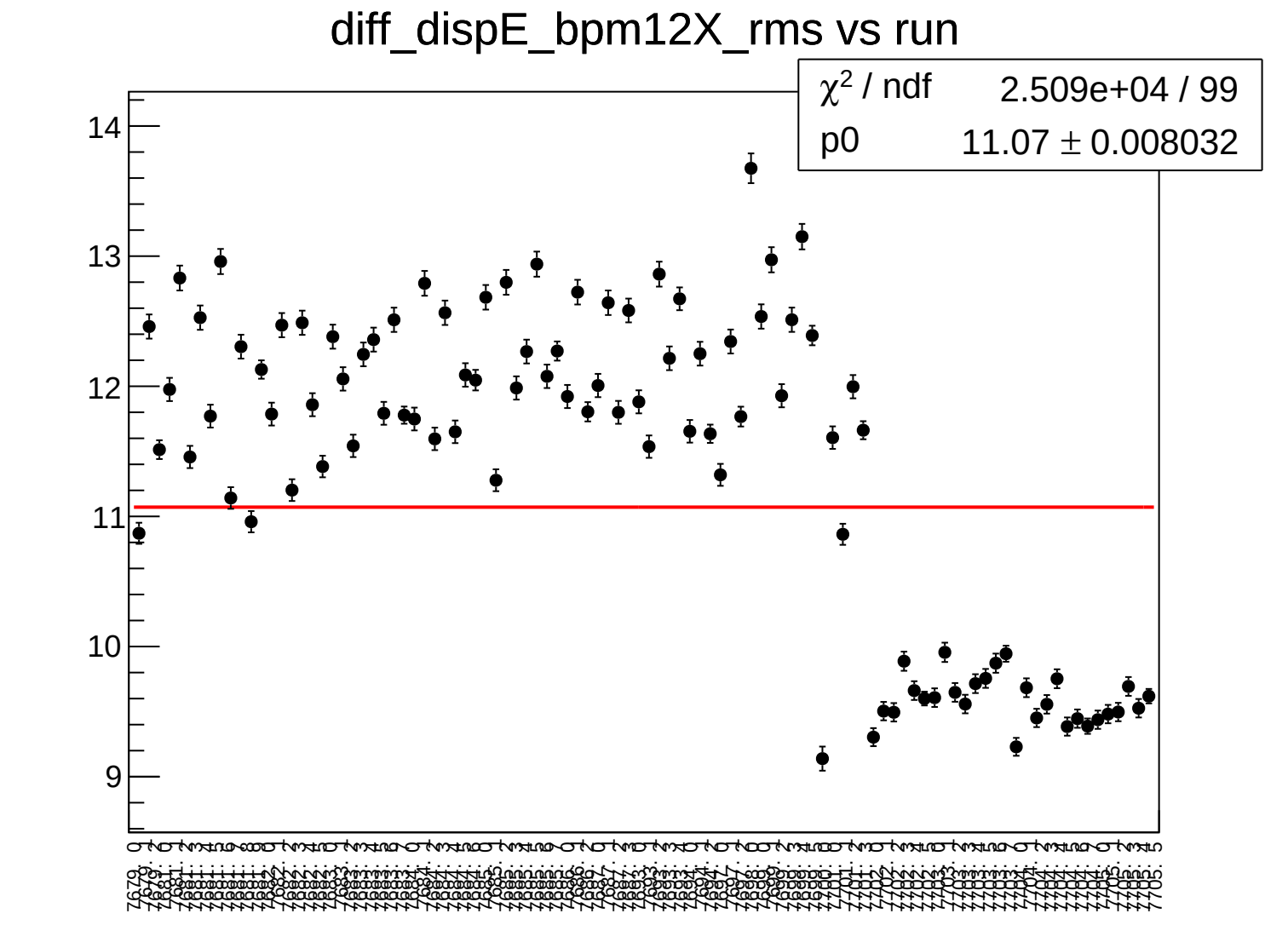

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 119.8 / 99
p0 −0.5644 ± 0.8032
pull
Entries 100
Mean 113.5
Std Dev 0

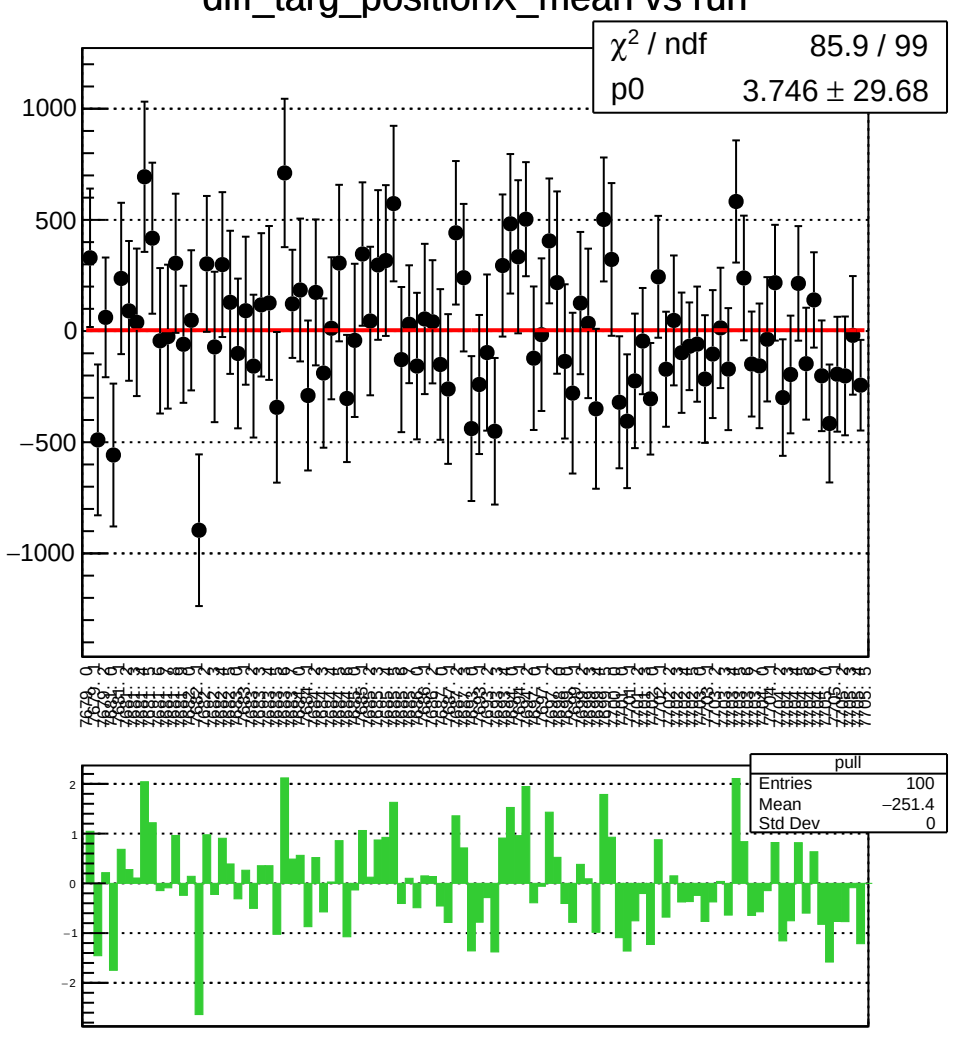

pull1D
Entries 100
Mean −0.01866
Std Dev 1.095

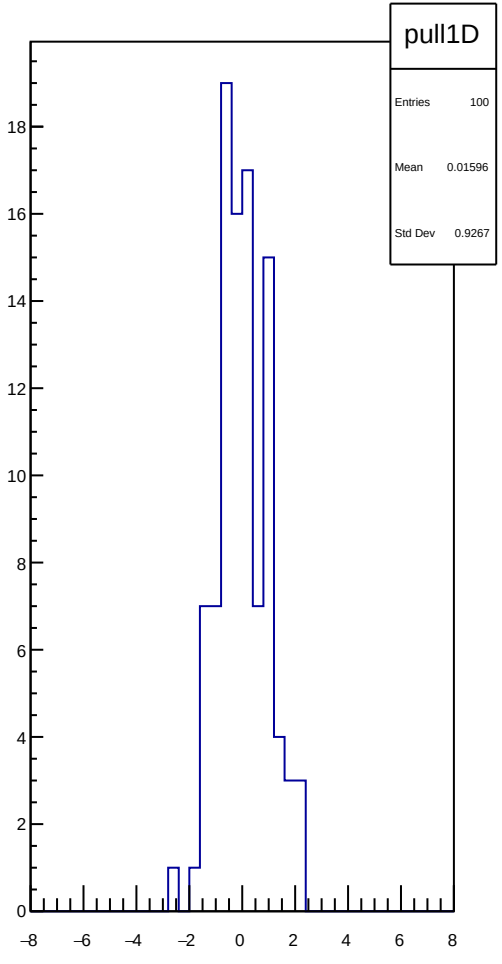

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 2603 / 99
p0 787.5 ± 0.568
860
840
820
800
780
760
740


diff_dispE_bpm12X_mean vs run
χ² / ndf 101.7 / 99
p0 0.02123 ± 0.01136
pull
Entries 100
Mean −171.7
Std Dev 0

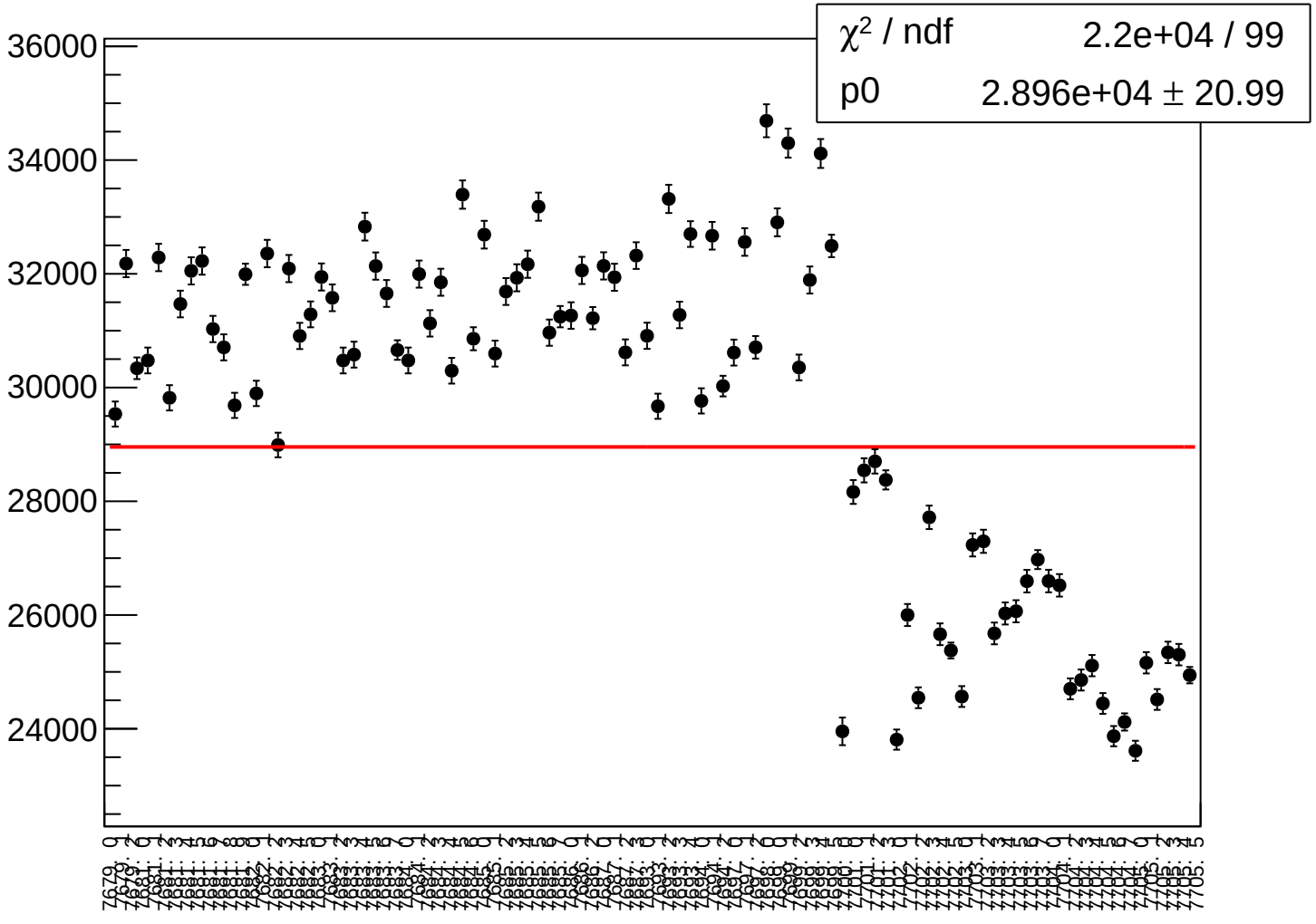

pull1D
Entries 100
Mean −0.01883
Std Dev 1.008

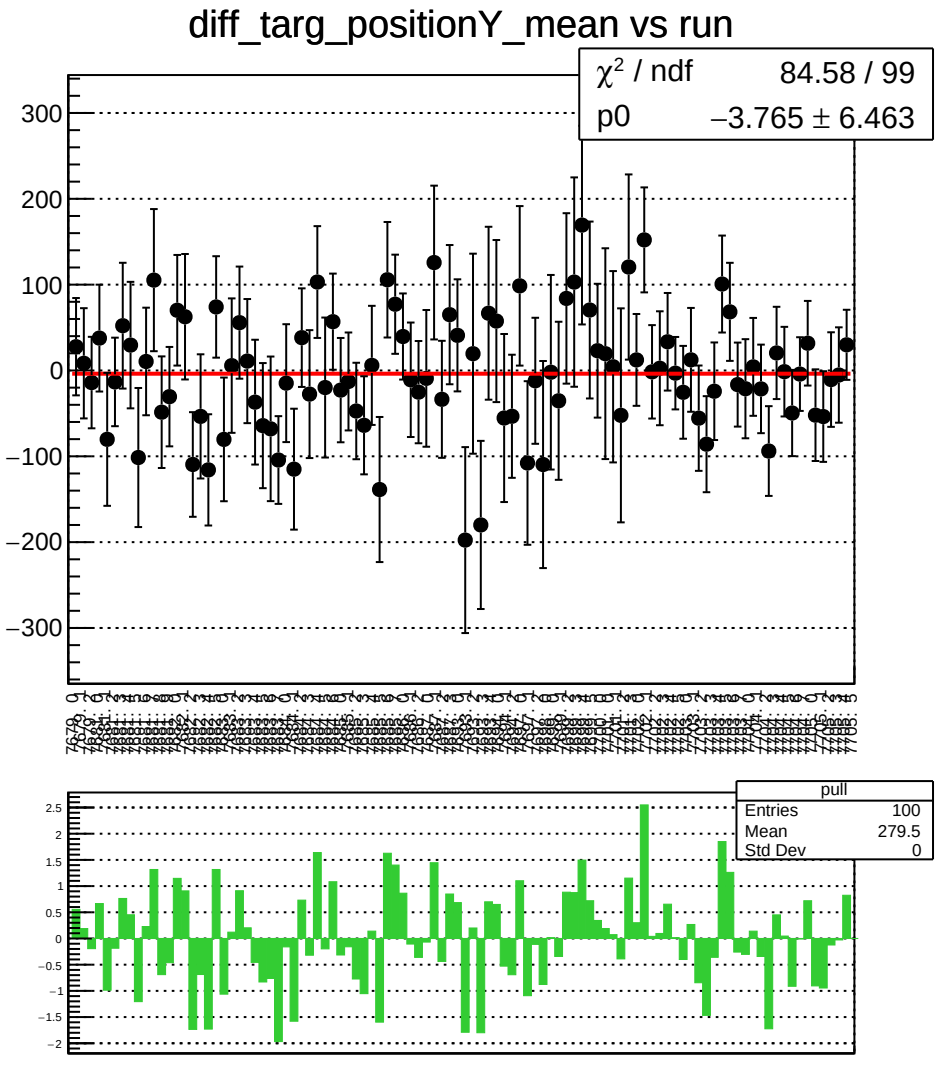

diff_dispE_bpm12X_rms vs run
χ^2 / ndf 2.509e+04 / 99
p0 11.07 ± 0.008032
14
13
12
11
10
9

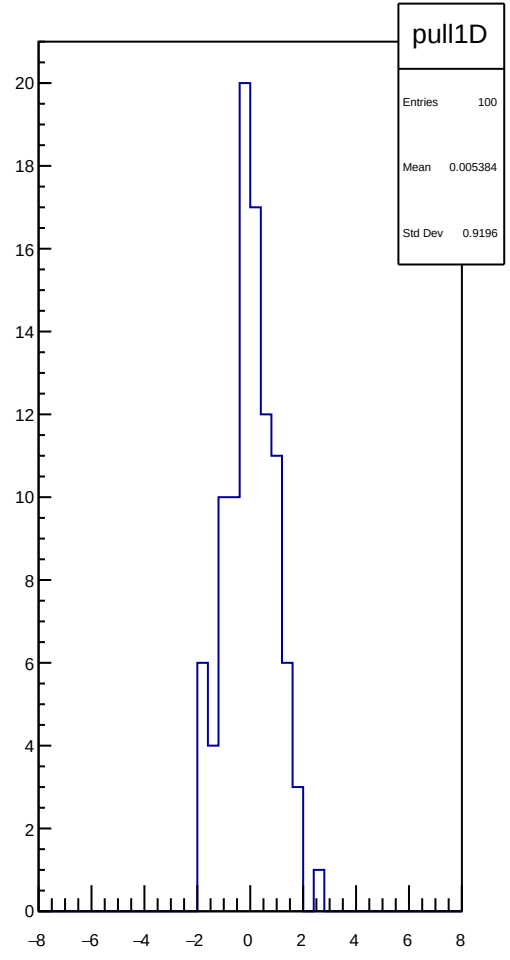

diff_targ_positionX_mean vs run
χ² / ndf 85.9 / 99
p0 3.746 ± 29.68
1000
500
0
−500
−1000
pull
Entries 100
Mean −251.4
Std Dev 0
2
1
0
−1
−2

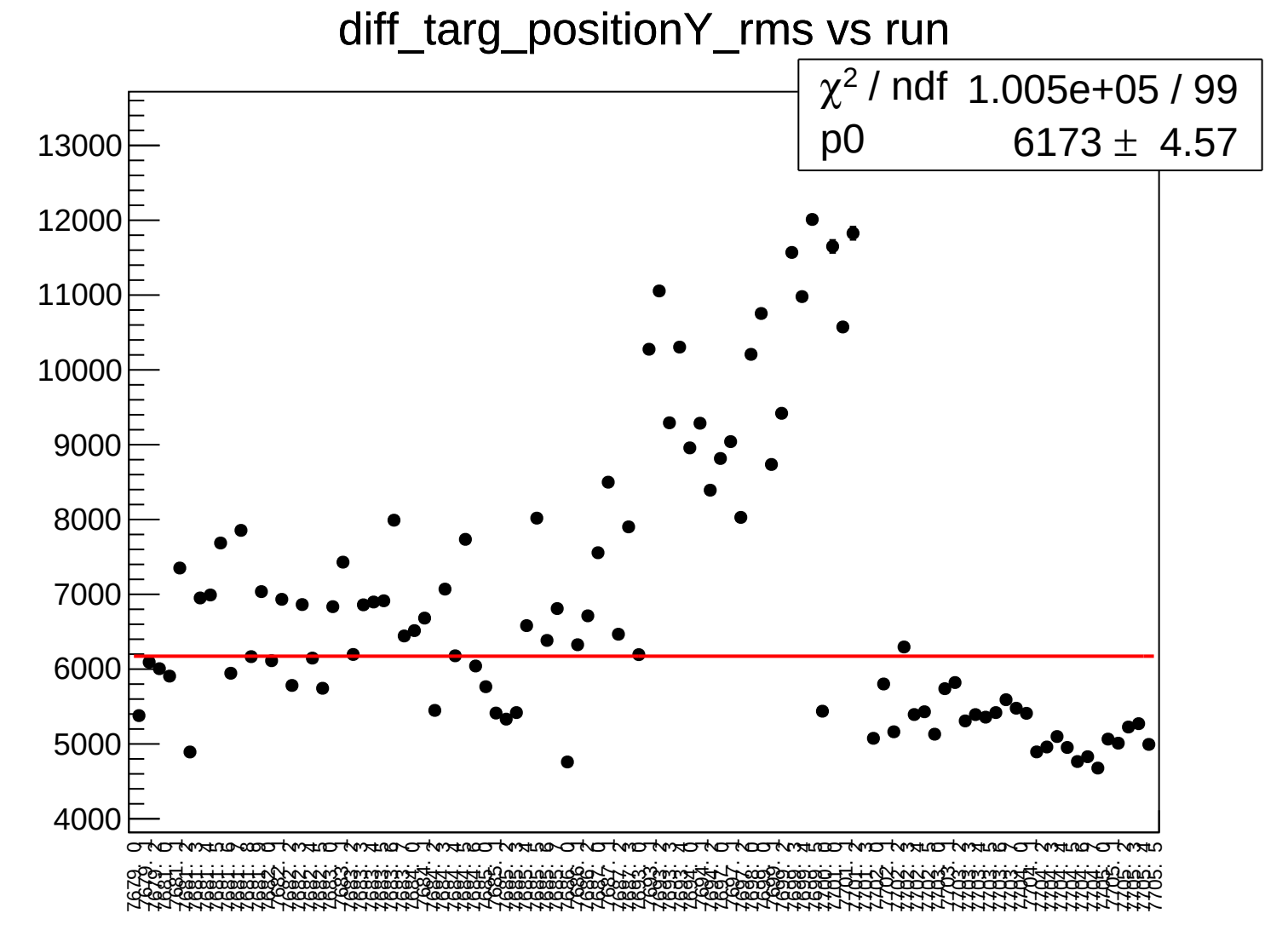

pull1D
Entries 100
Mean 0.01596
Std Dev 0.9267
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

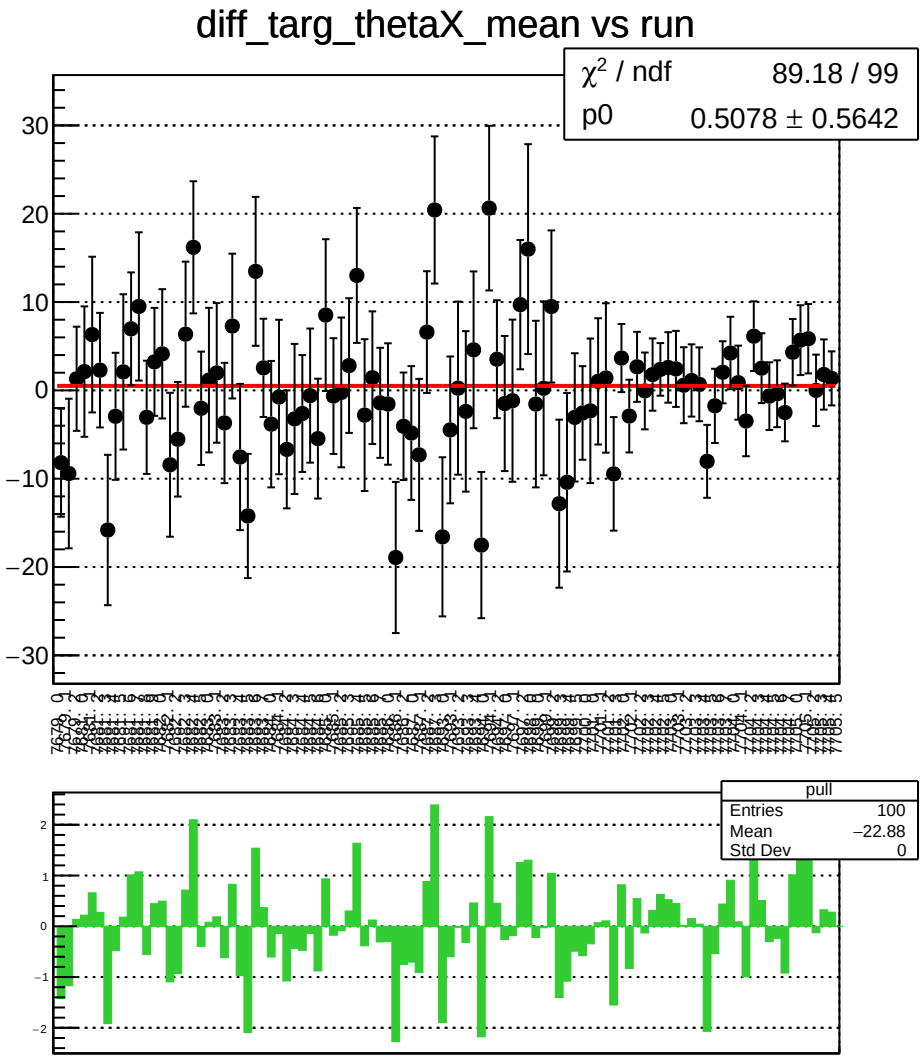
diff_targ_positionX_rms vs run

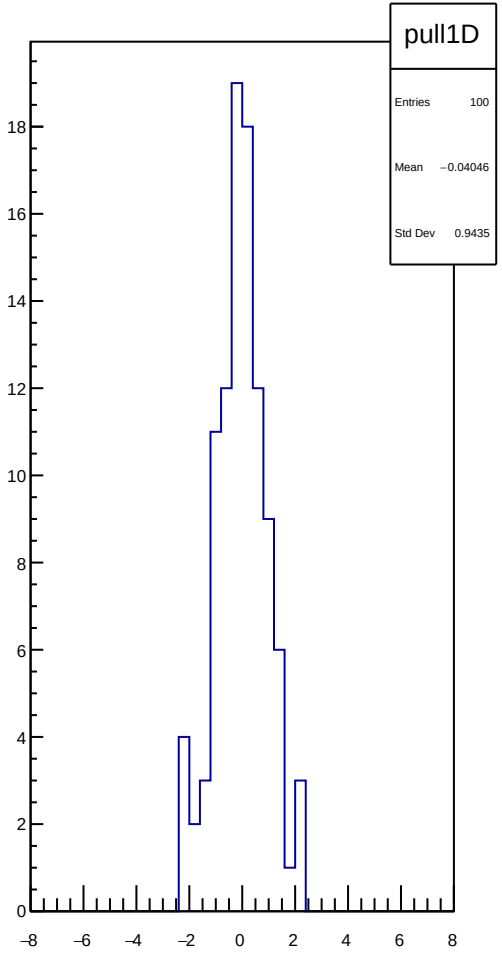


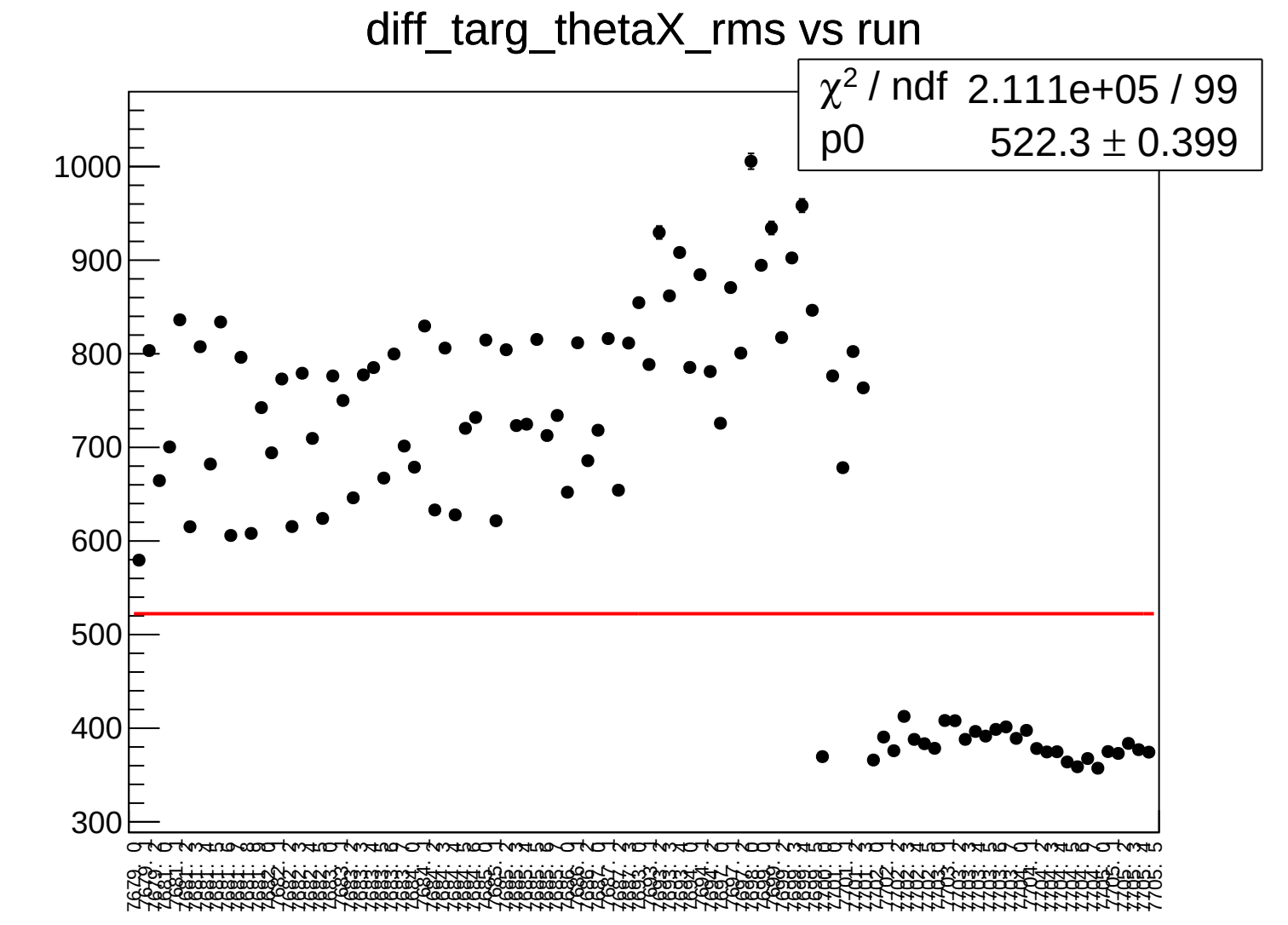

diff_targ_positionY_mean vs run
χ² / ndf 84.58 / 99
p0 −3.765 ± 6.463
pull
Entries 100
Mean 279.5
Std Dev 0

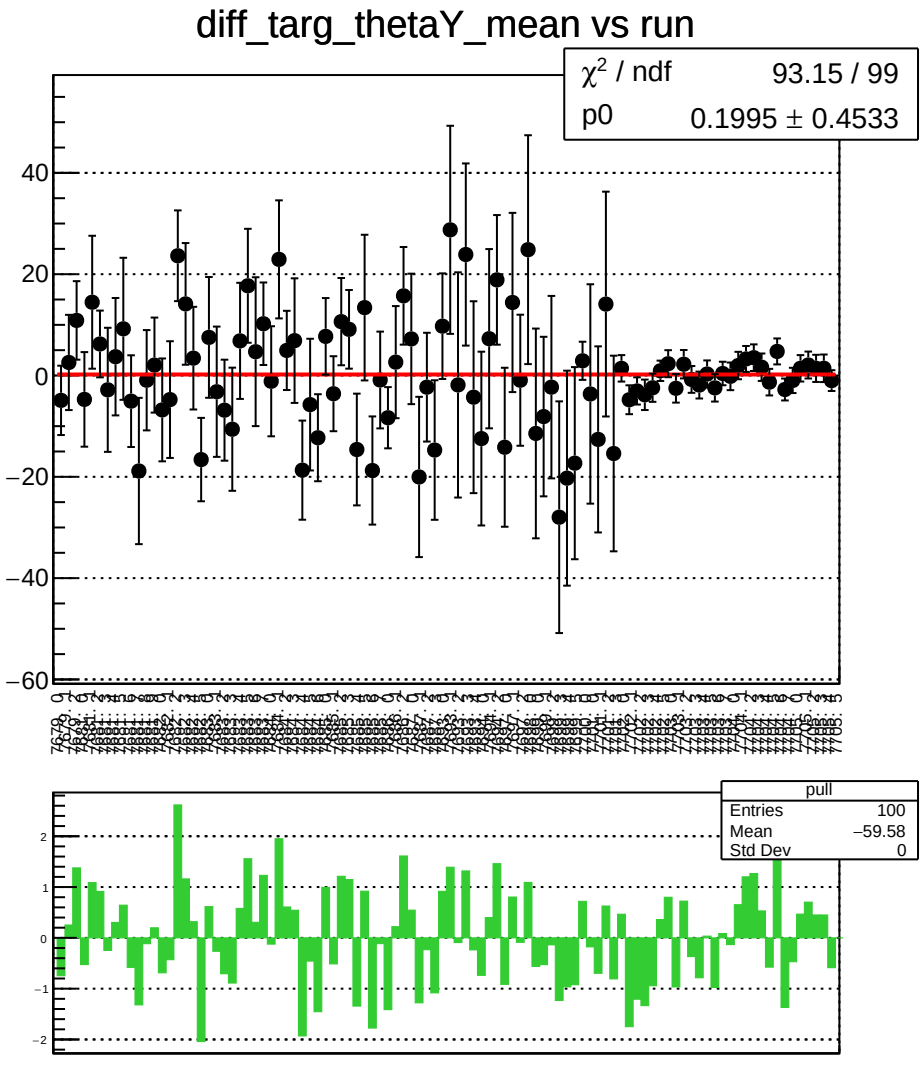

pull1D
Entries 100
Mean 0.005384
Std Dev 0.9196

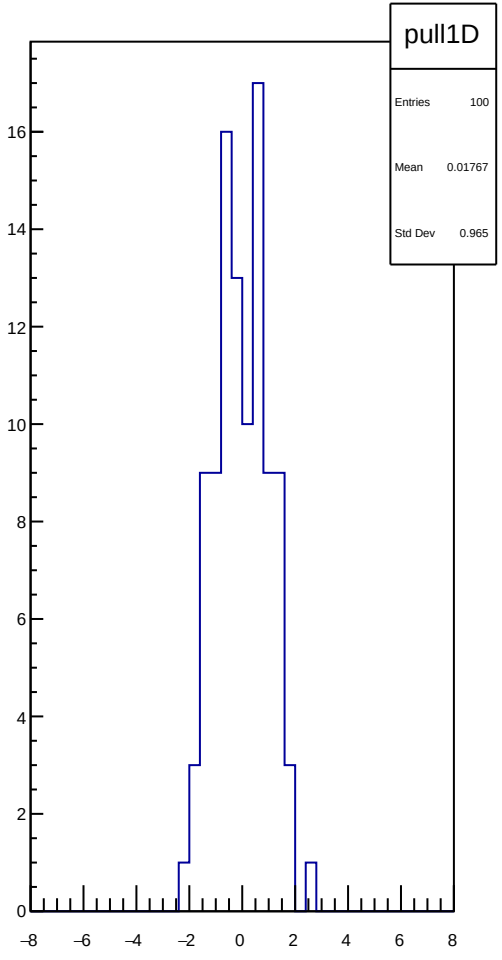

diff_targ_positionY_rms vs run
χ² / ndf 1.005e+05 / 99
p0 6173 ± 4.57
13000
12000
11000
10000
9000
8000
7000
6000
5000
4000

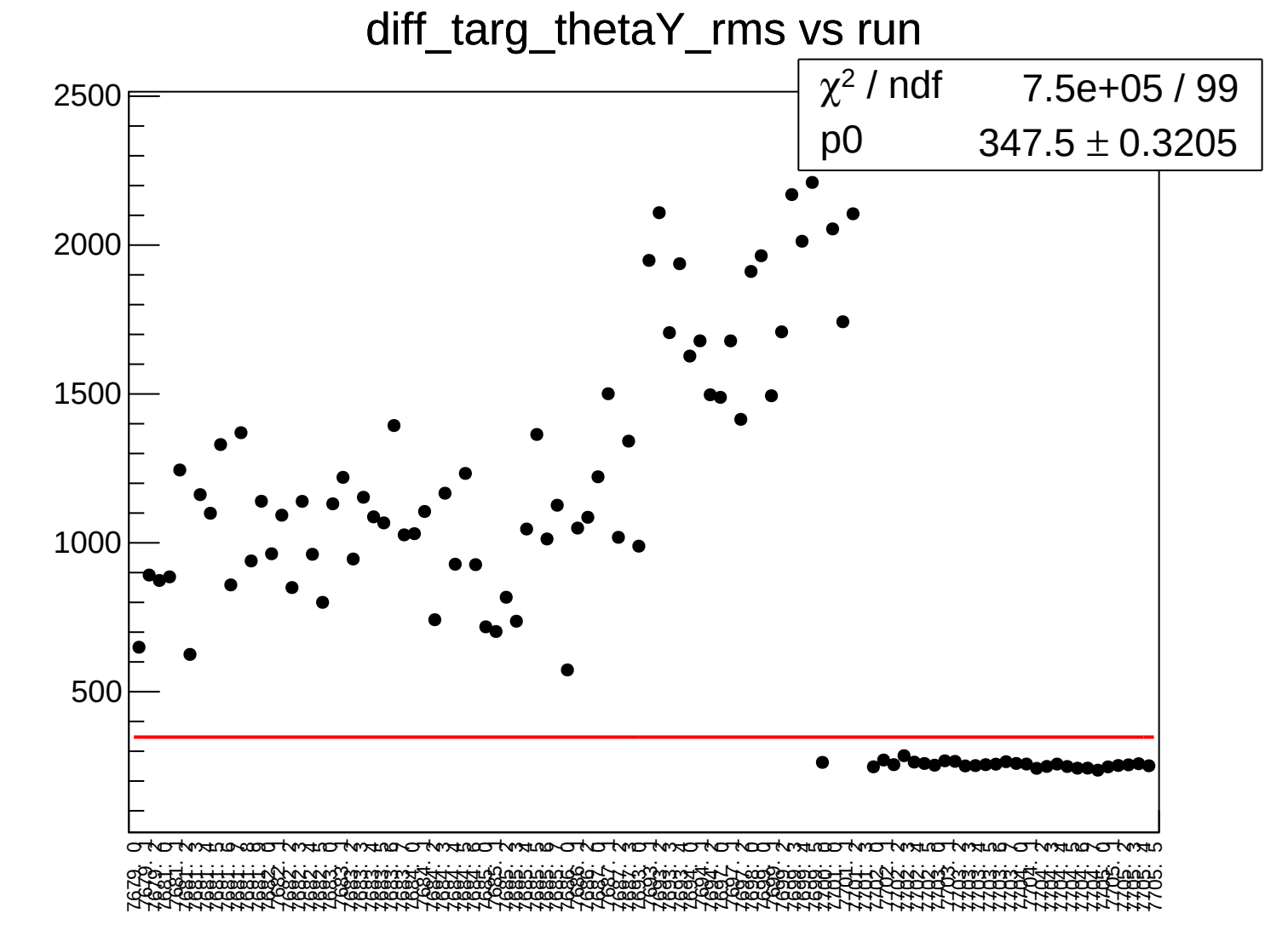

diff_targ_thetaX_mean vs run
χ² / ndf 89.18 / 99
p0 0.5078 ± 0.5642
pull
Entries 100
Mean −22.88
Std Dev 0

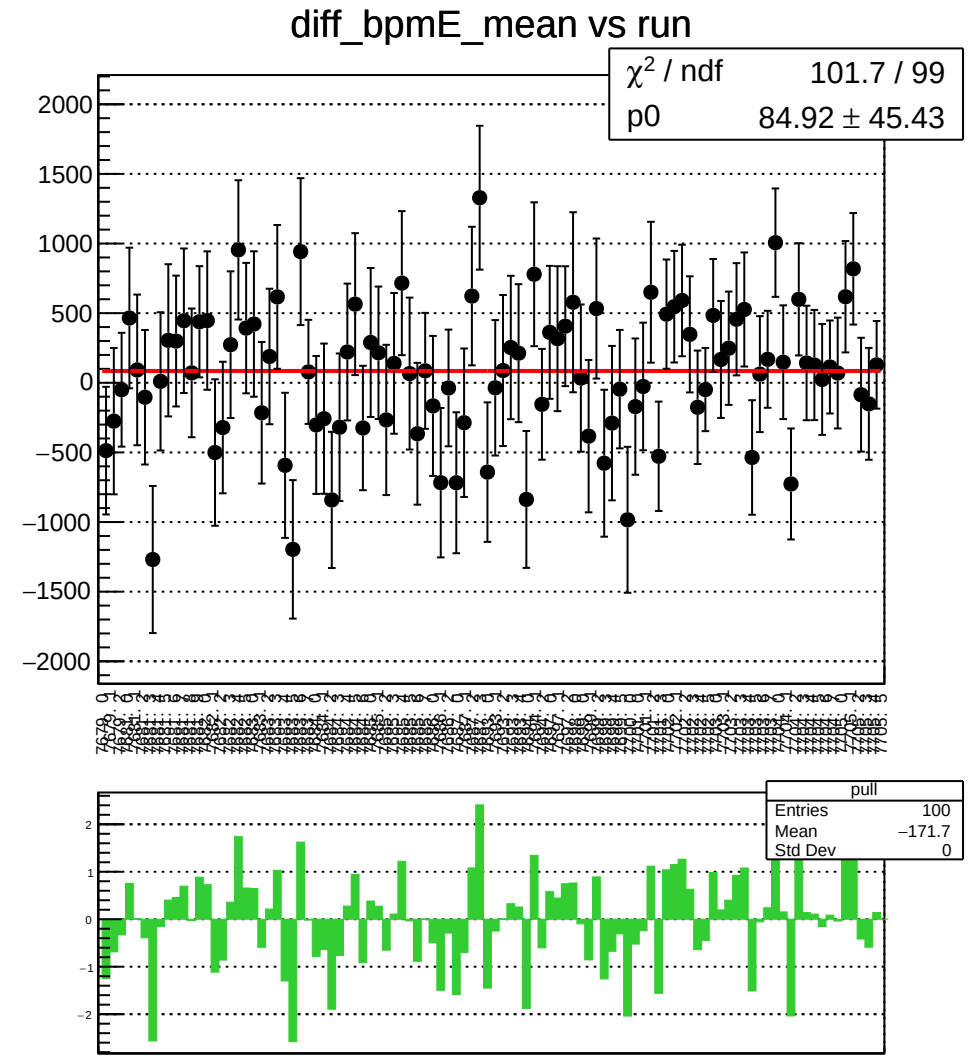

pull1D
Entries 100
Mean −0.04046
Std Dev 0.9435

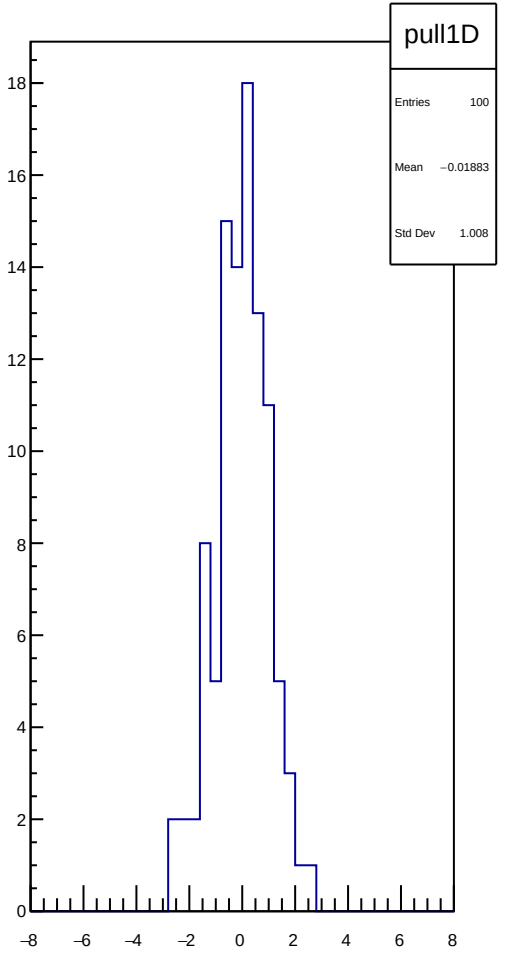

diff_targ_thetaX_rms vs run
χ^2 / ndf 2.111e+05 / 99
p0 522.3 ± 0.399
1000
900
800
700
600
500
400
300

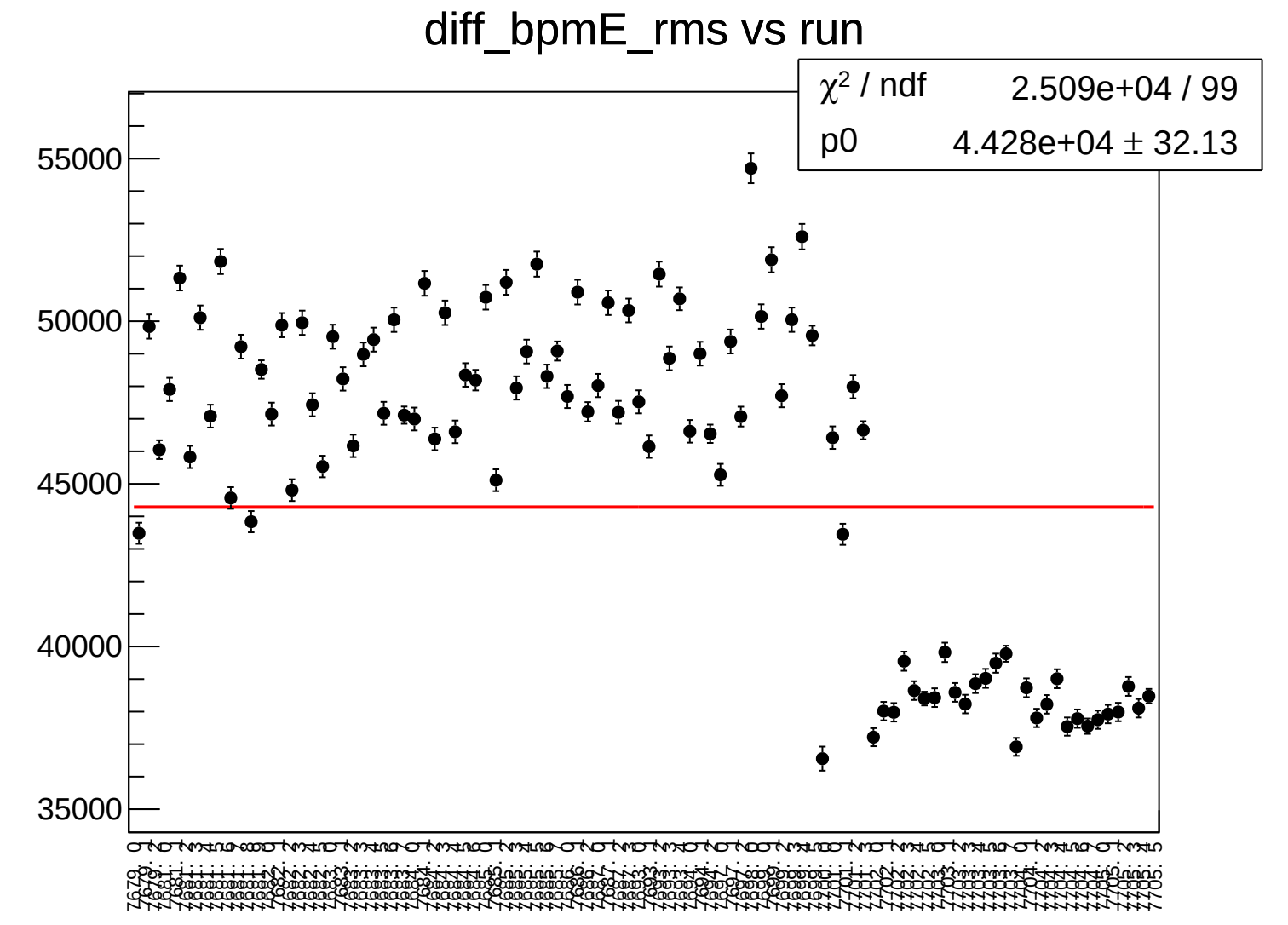

diff_targ_thetaY_mean vs run
χ^2 / ndf 93.15 / 99
p0 0.1995 ± 0.4533
pull
Entries 100
Mean −59.58
Std Dev 0

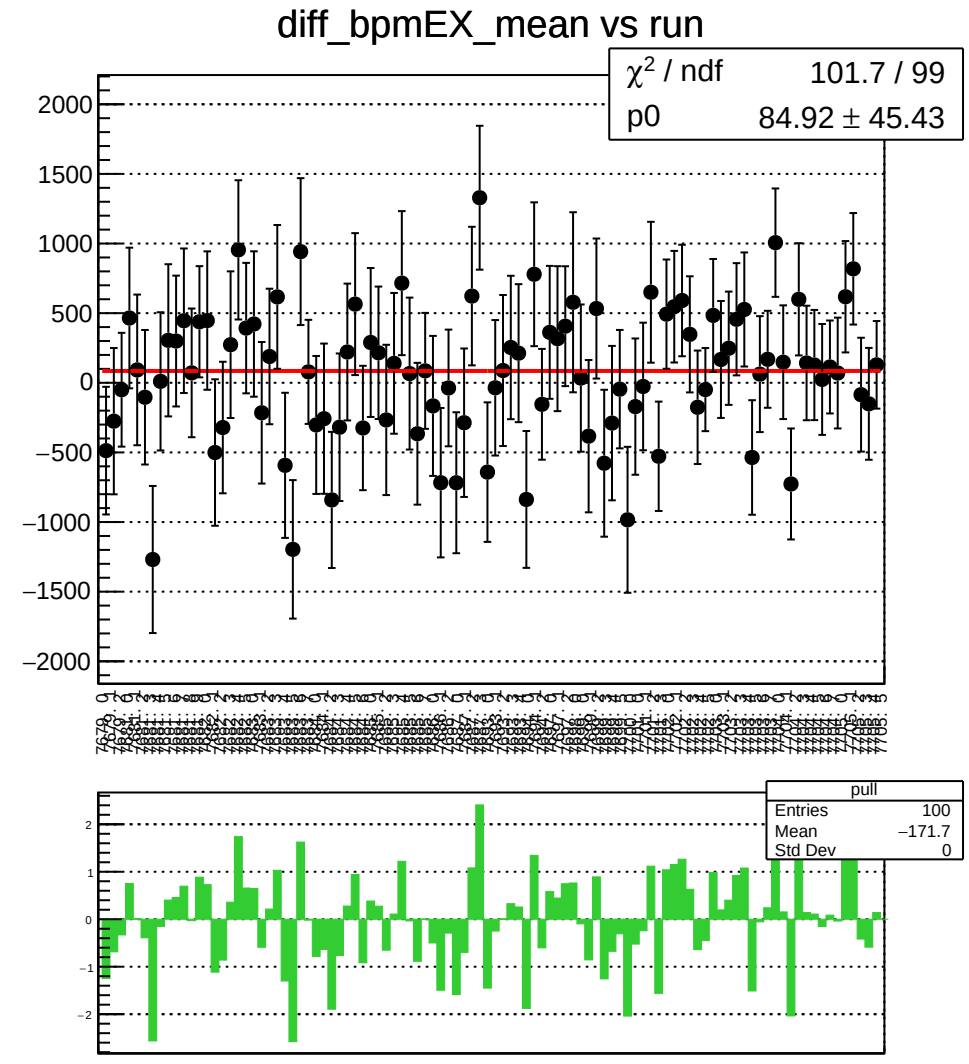

pull1D
Entries 100
Mean 0.01767
Std Dev 0.965

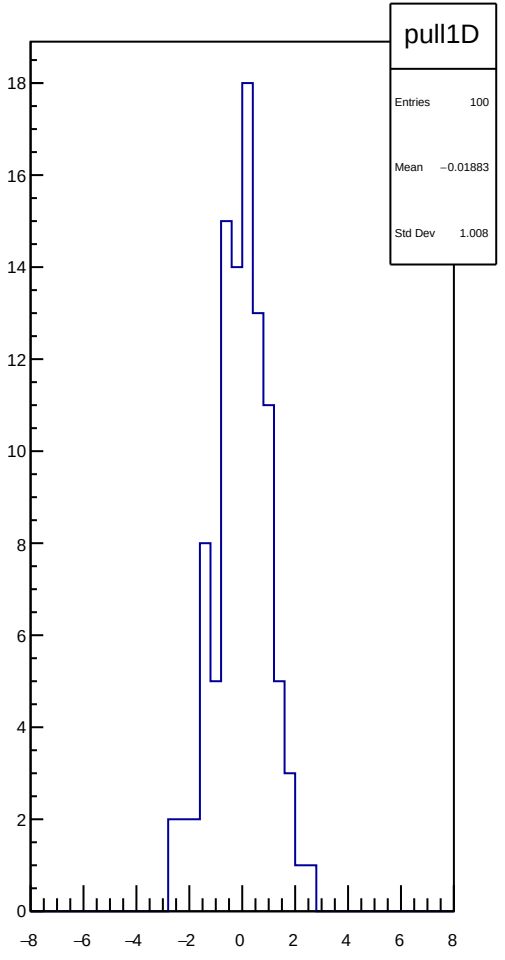

diff_targ_thetaY_rms vs run
χ^2 / ndf 7.5e+05 / 99
p0 347.5 ± 0.3205
2500
2000
1500
1000
500

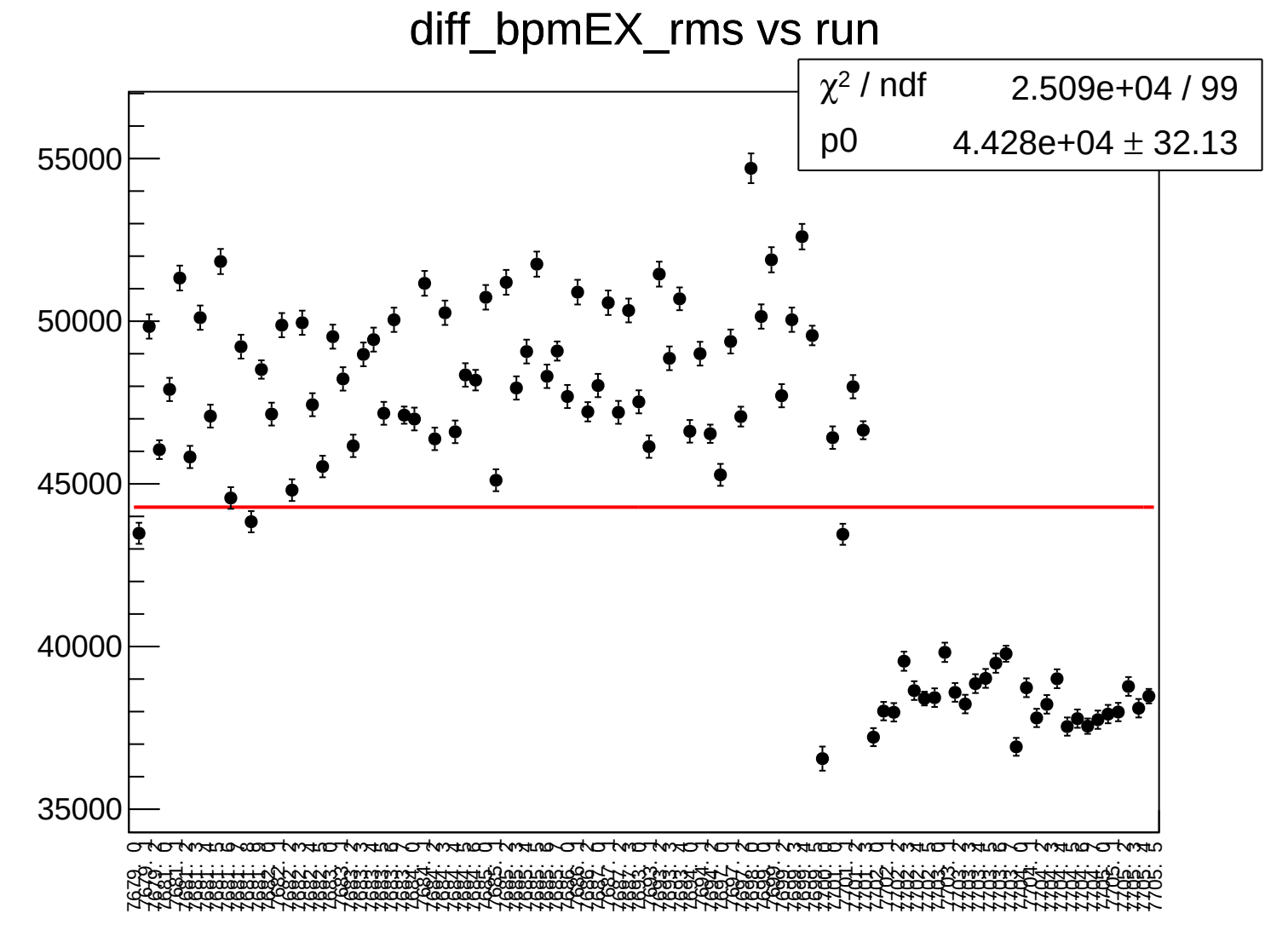

diff_bpmE_mean vs run
χ² / ndf 101.7 / 99
p0 84.92 ± 45.43
pull
Entries 100
Mean −171.7
Std Dev 0

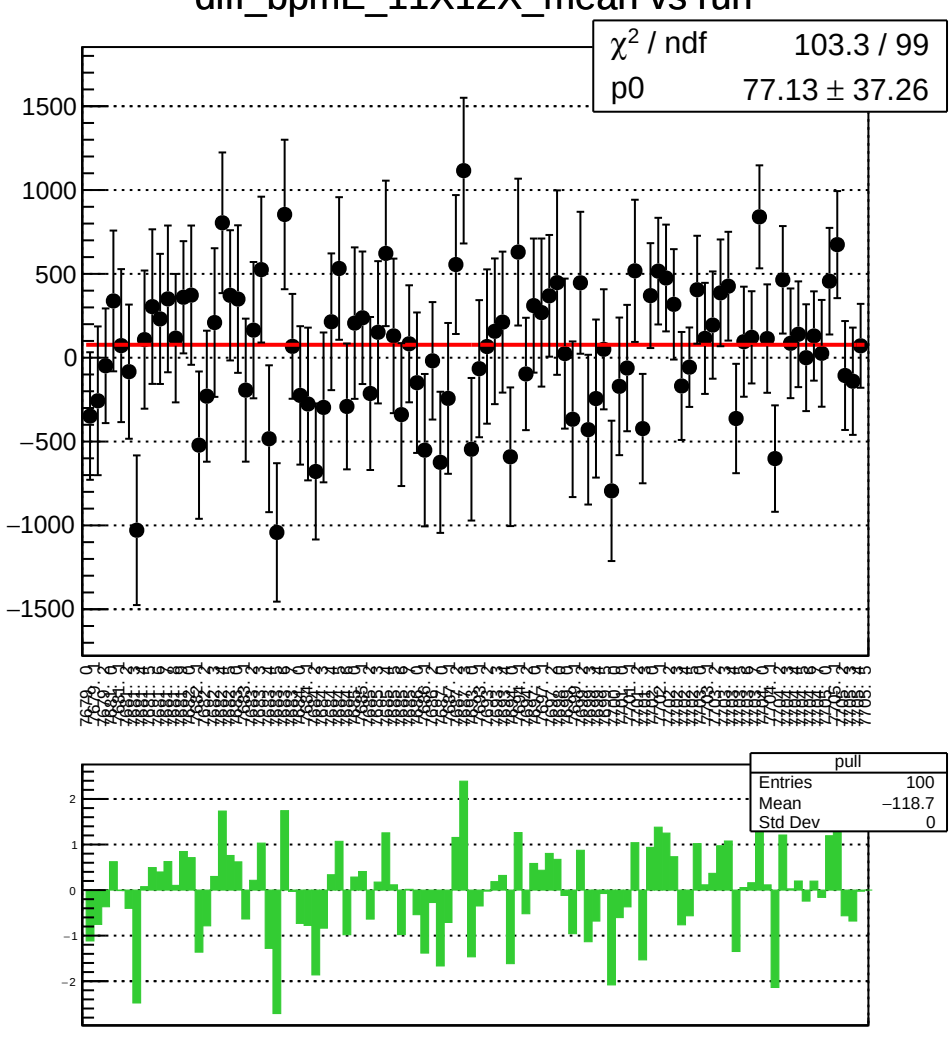

pull1D
Entries 100
Mean −0.01883
Std Dev 1.008

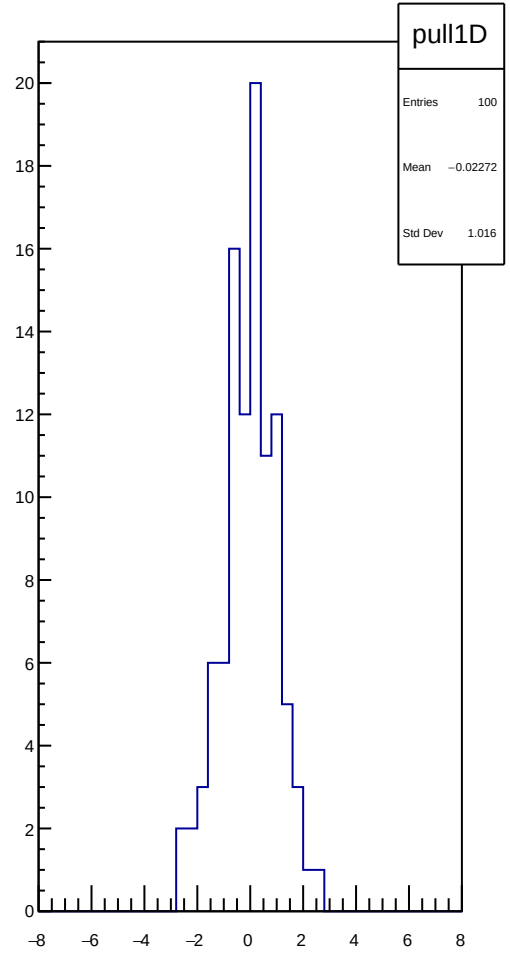

diff_bpmE_rms vs run
χ² / ndf 2.509e+04 / 99
p0 4.428e+04 ± 32.13
55000
50000
45000
40000
35000

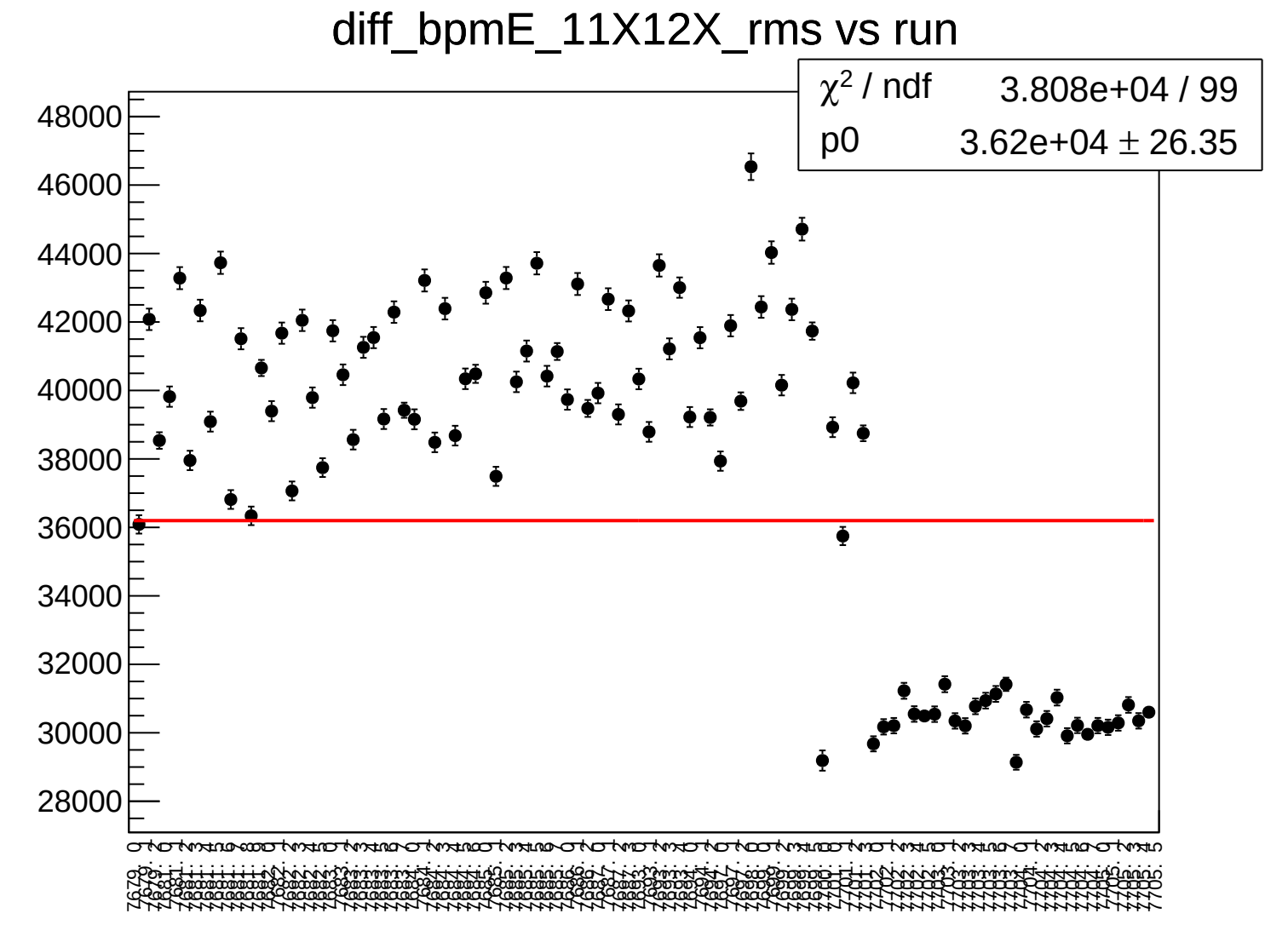

diff_bpmEX_mean vs run
χ² / ndf 101.7 / 99
p0 84.92 ± 45.43
pull
Entries 100
Mean −171.7
Std Dev 0

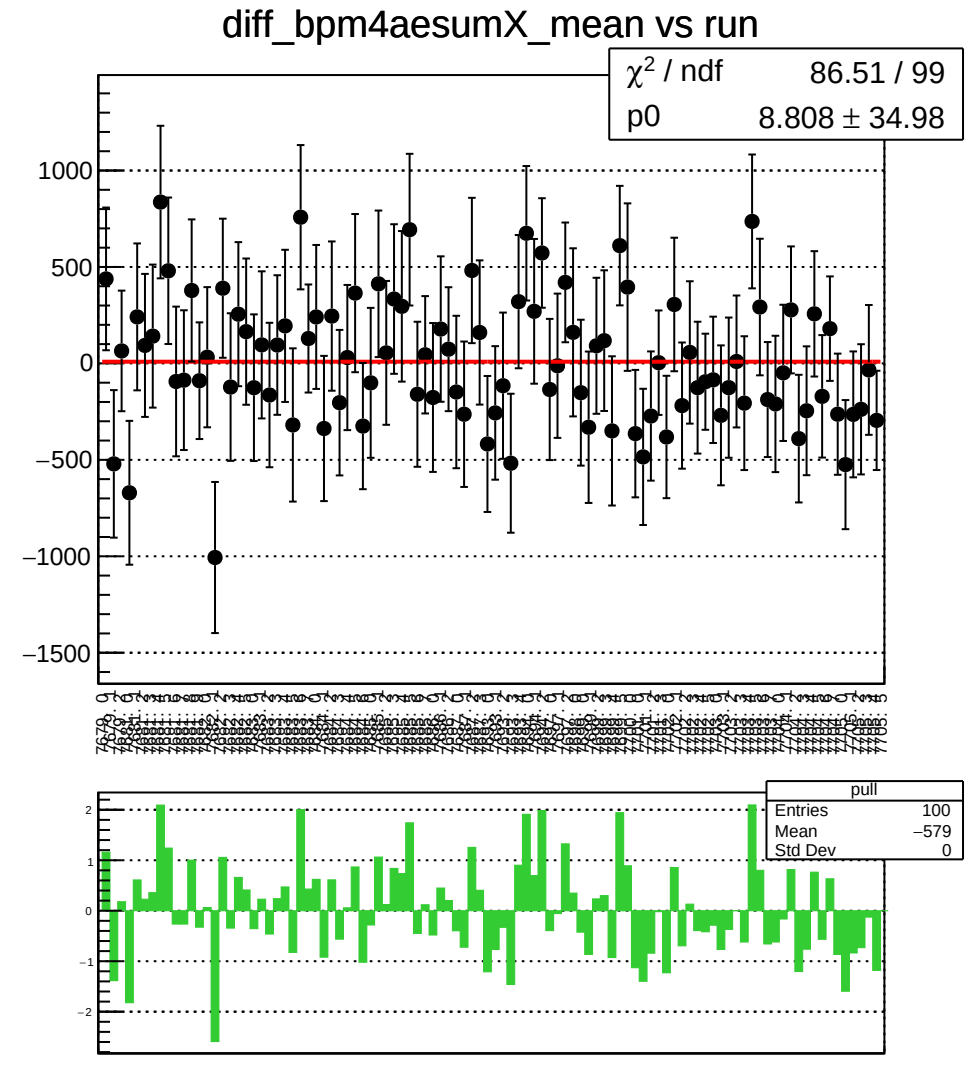

pull1D
Entries 100
Mean −0.01883
Std Dev 1.008

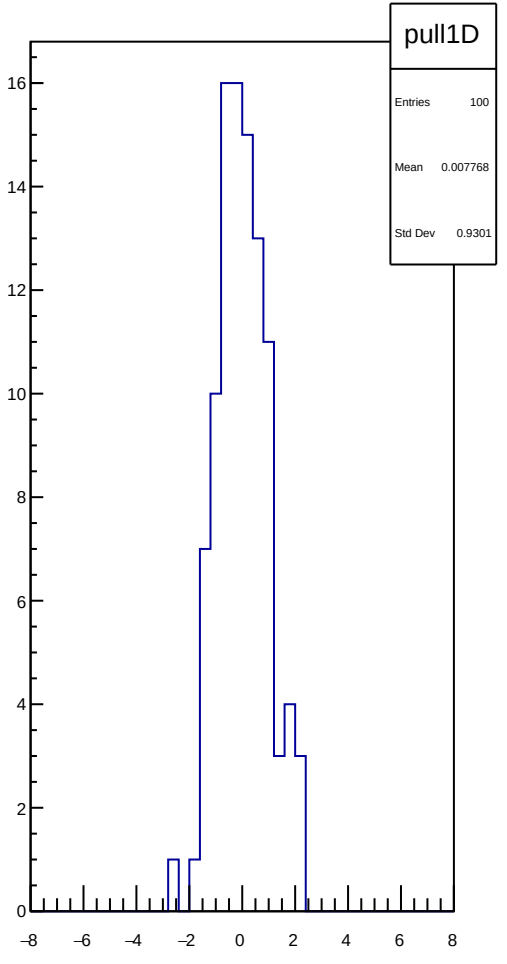

diff_bpmEX_rms vs run
χ² / ndf 2.509e+04 / 99
p0 4.428e+04 ± 32.13
55000
50000
45000
40000
35000


diff_bpmE_11X12X_mean vs run
χ² / ndf 103.3 / 99
p0 77.13 ± 37.26
1500
1000
500
0
−500
−1000
−1500
pull
Entries 100
Mean −118.7
Std Dev 0
2
1
0
−1
−2

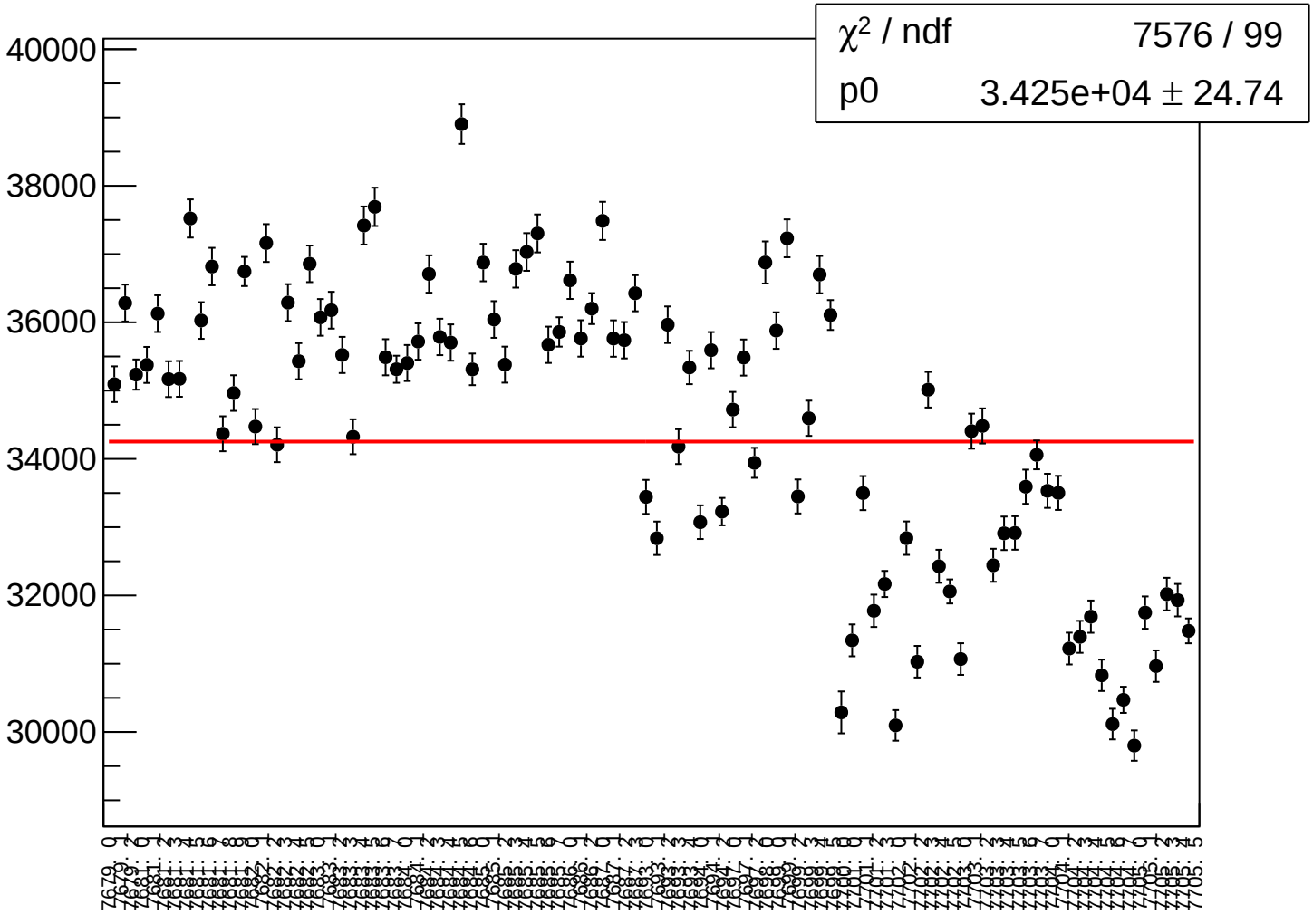

pull1D
Entries 100
Mean −0.02272
Std Dev 1.016
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

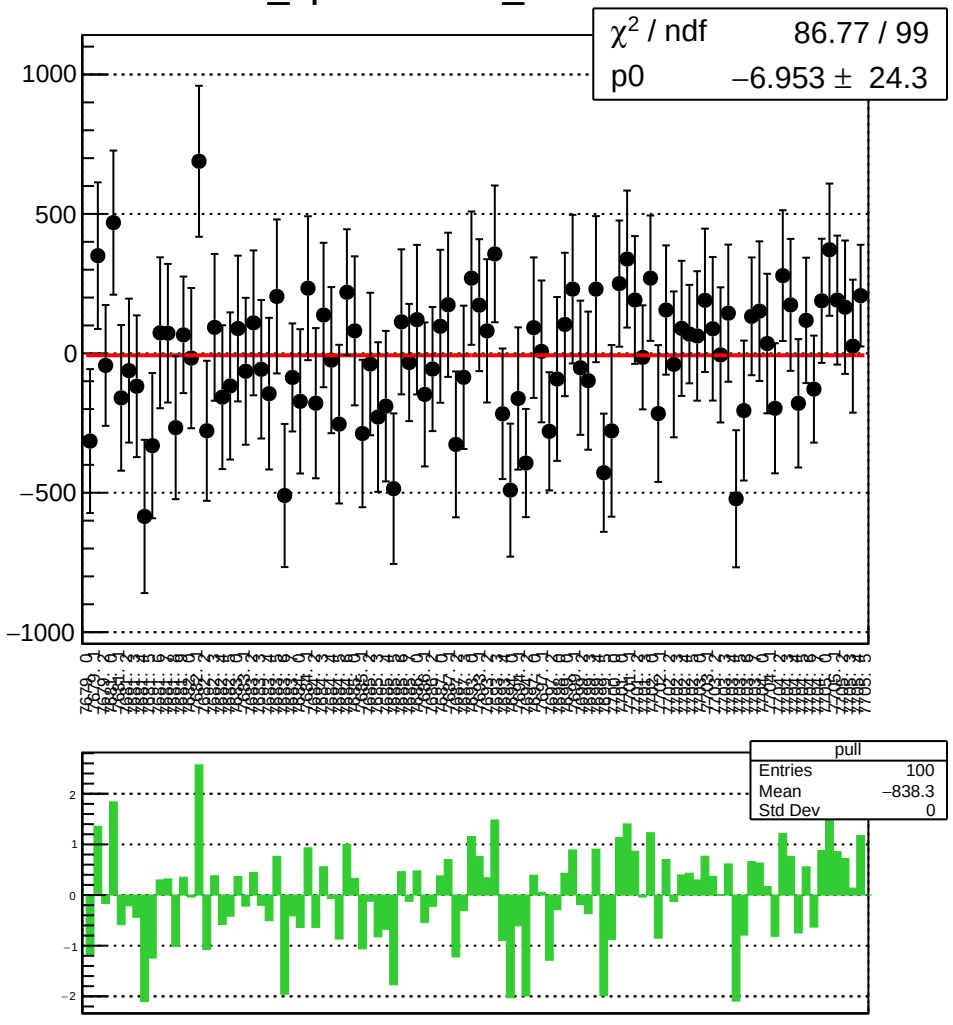

diff_bpmE_11X12X_rms vs run
χ² / ndf 3.808e+04 / 99
p0 3.62e+04 ± 26.35
48000
46000
44000
42000
40000
38000
36000
34000
32000
30000
28000

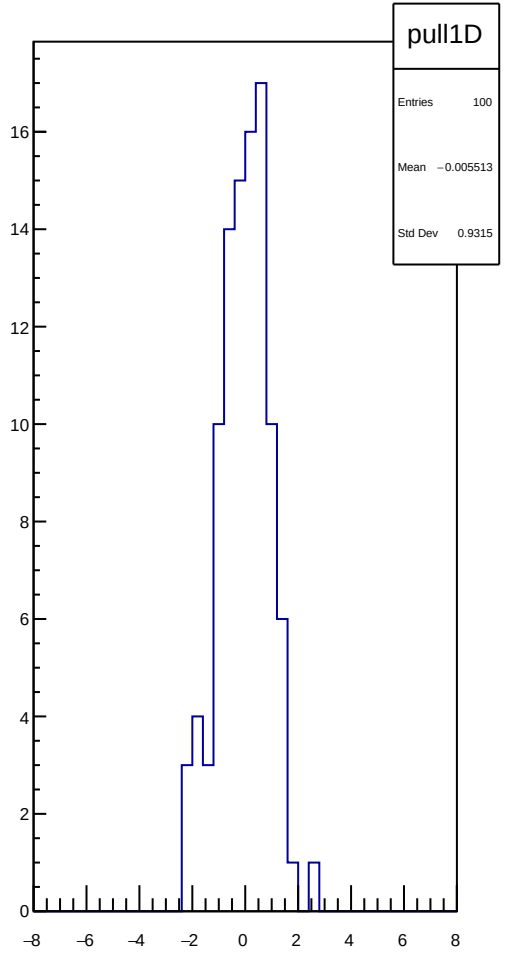

diff_bpm4aesumX_mean vs run
χ² / ndf 86.51 / 99
p0 8.808 ± 34.98
1000
500
0
−500
−1000
−1500
pull
Entries 100
Mean −579
Std Dev 0
2
1
0
−1
−2

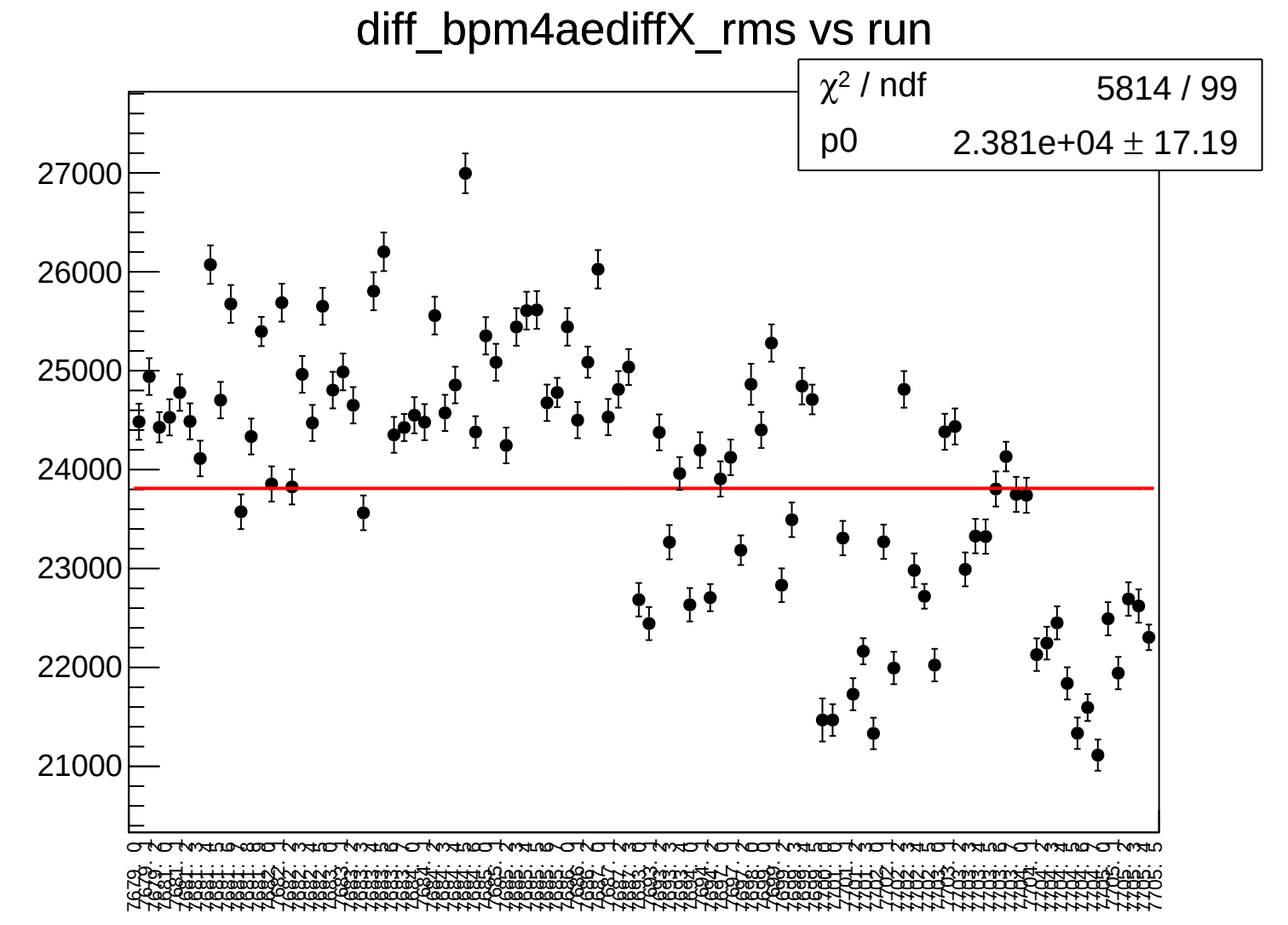

pull1D
Entries 100
Mean 0.007768
Std Dev 0.9301
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

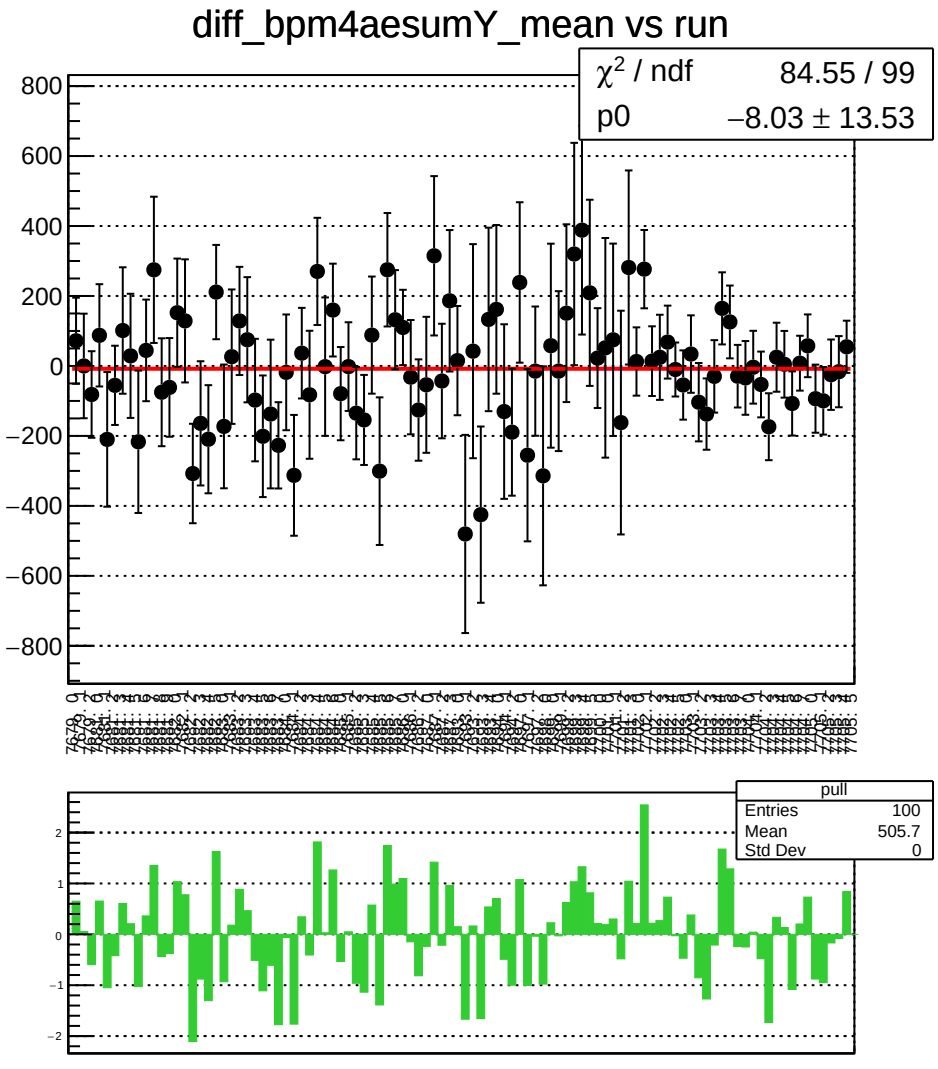
diff_bpm4aesumX_rms vs run

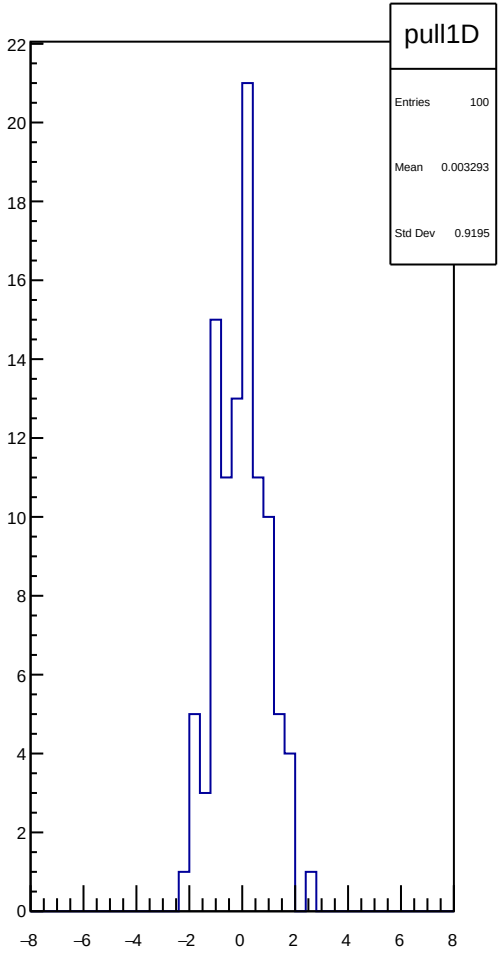


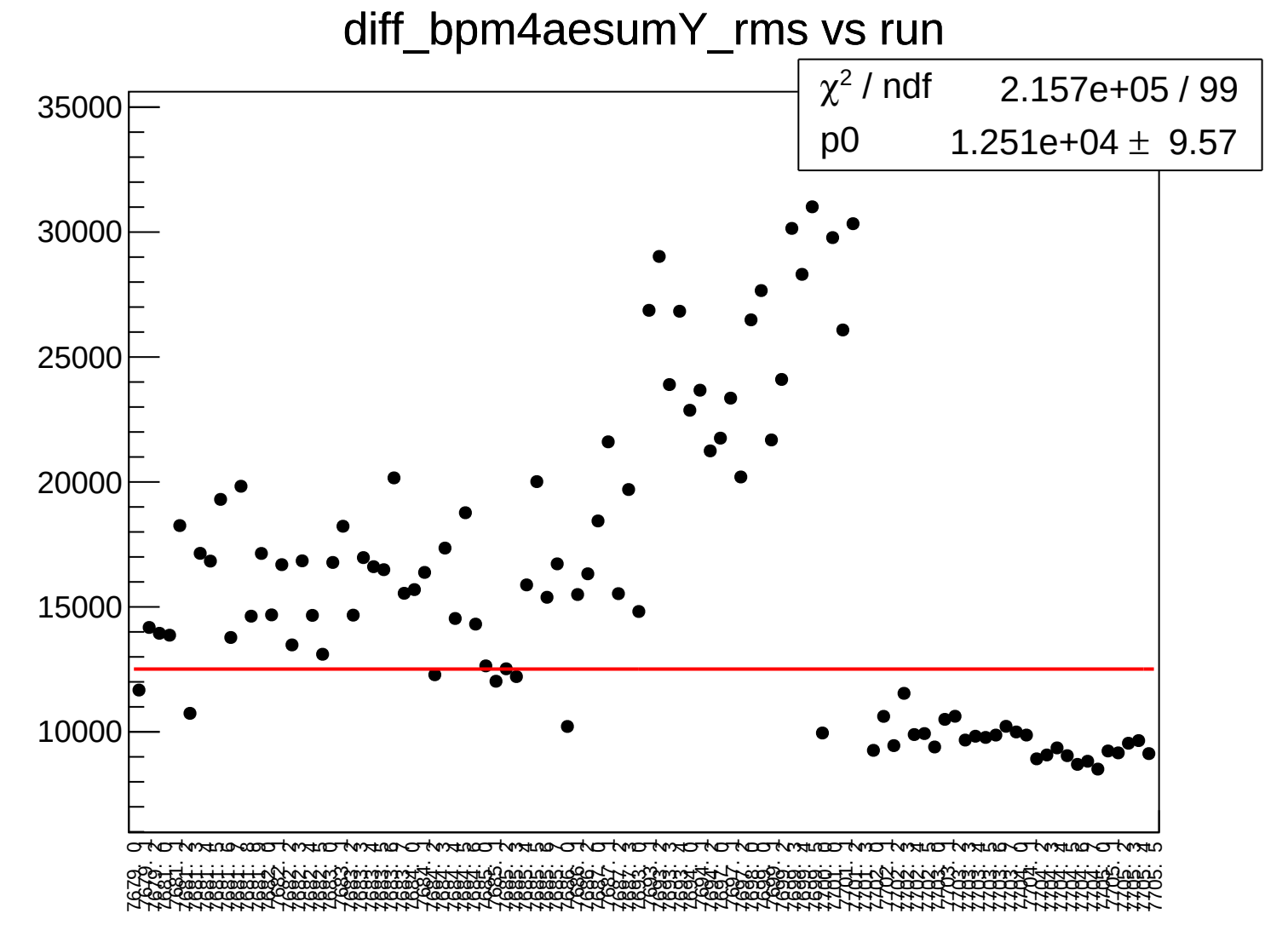

diff_bpm4aediffX_mean vs run
χ² / ndf 86.77 / 99
p0 −6.953 ± 24.3
1000
500
0
−500
−1000
pull
Entries 100
Mean −838.3
Std Dev 0
2
1
0
−1
−2

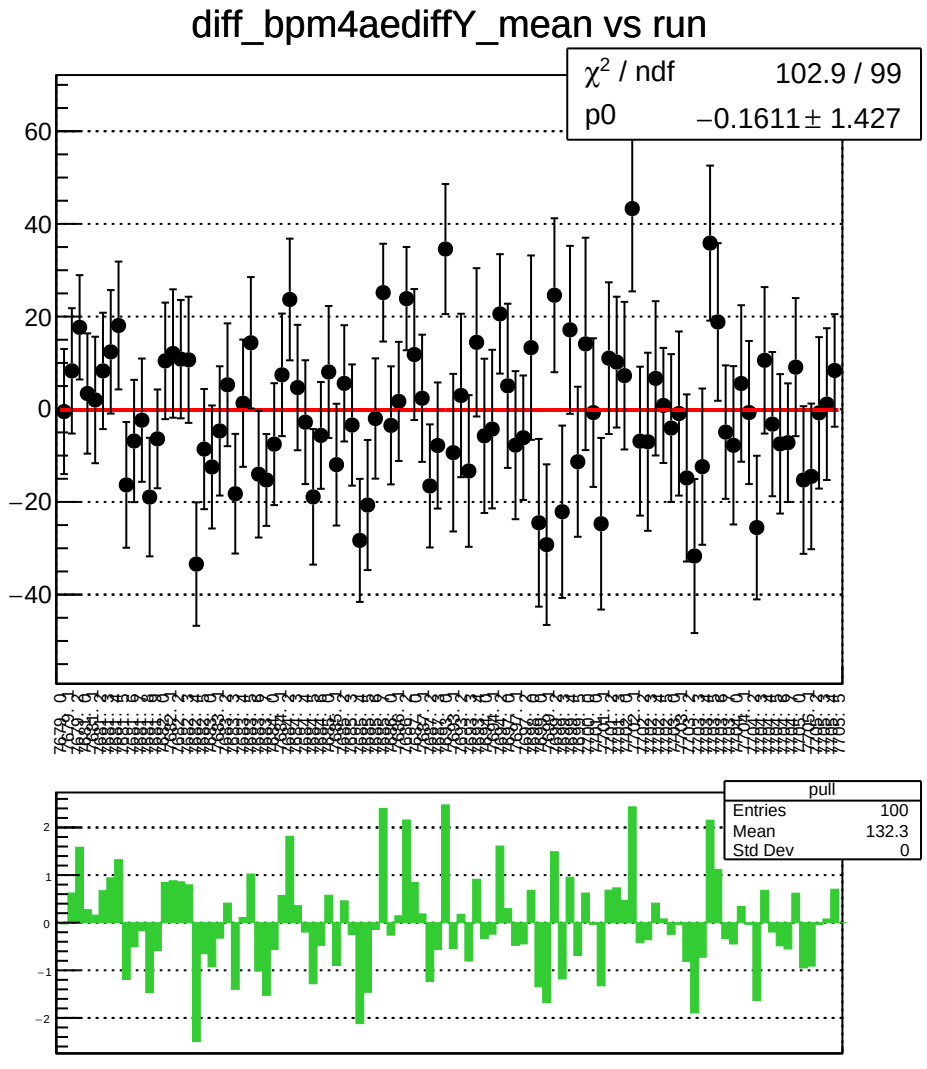

pull1D
Entries 100
Mean −0.005513
Std Dev 0.9315
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

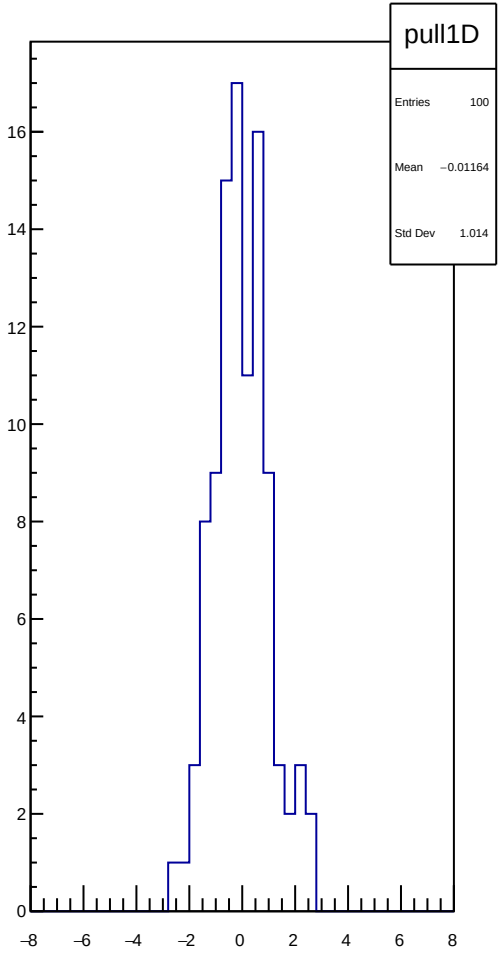

diff_bpm4aediffX_rms vs run
χ² / ndf 5814 / 99
p0 2.381e+04 ± 17.19
27000
26000
25000
24000
23000
22000
21000

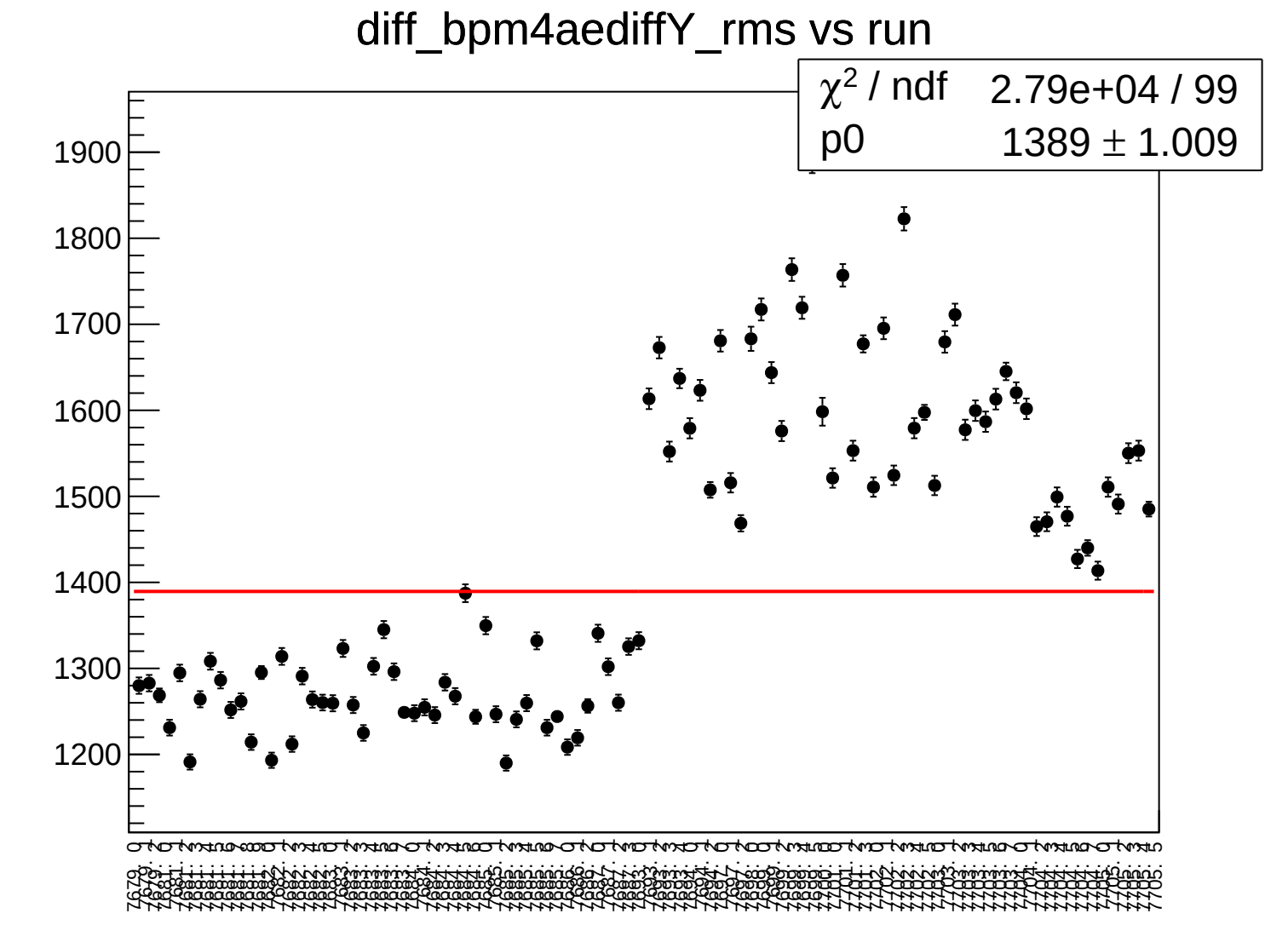

diff_bpm4aesumY_mean vs run
χ² / ndf 84.55 / 99
p0 −8.03 ± 13.53
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 100
Mean 505.7
Std Dev 0
2
1
0
−1
−2

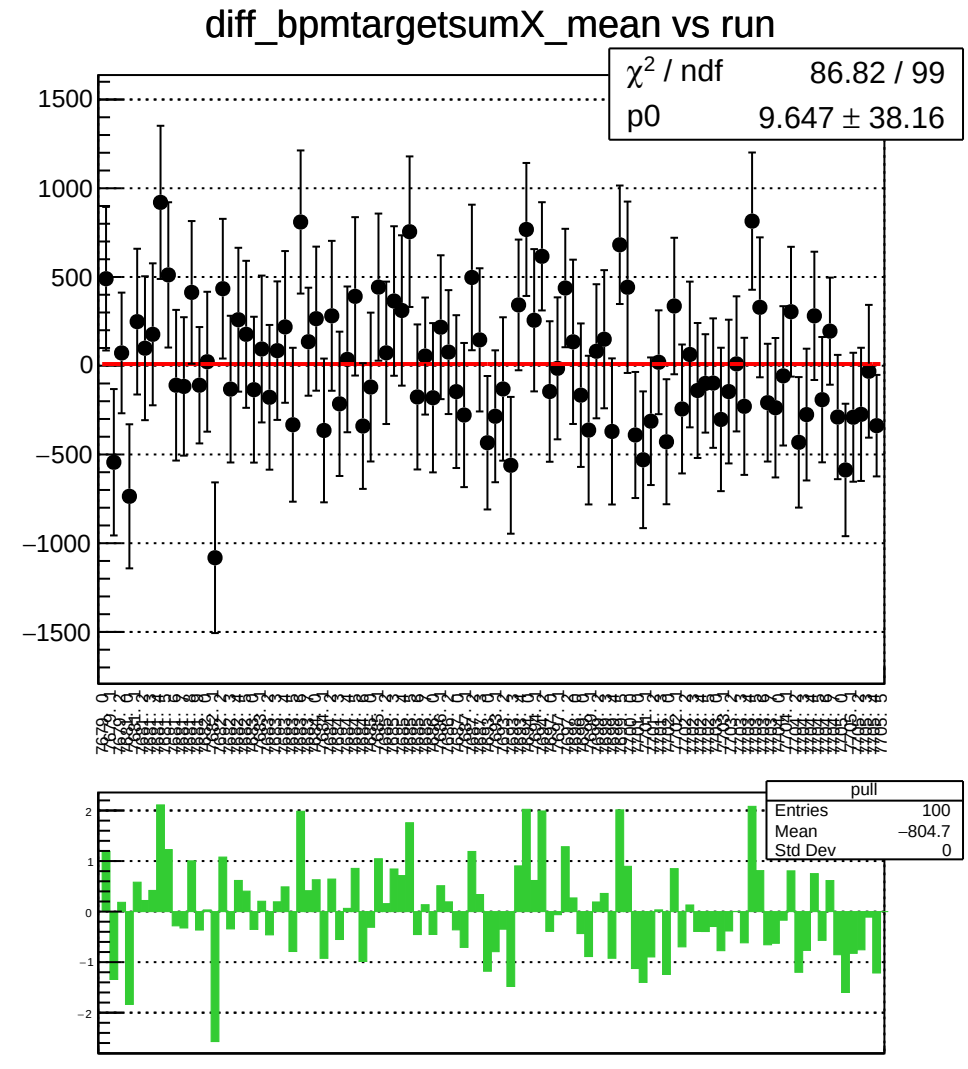

pull1D
Entries 100
Mean 0.003293
Std Dev 0.9195
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

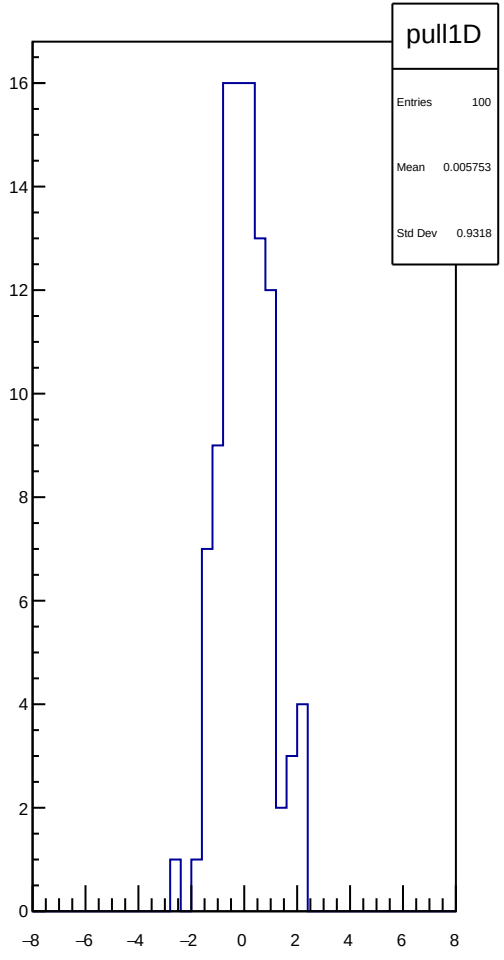

diff_bpm4aesumY_rms vs run
χ² / ndf 2.157e+05 / 99
p0 1.251e+04 ± 9.57
35000
30000
25000
20000
15000
10000

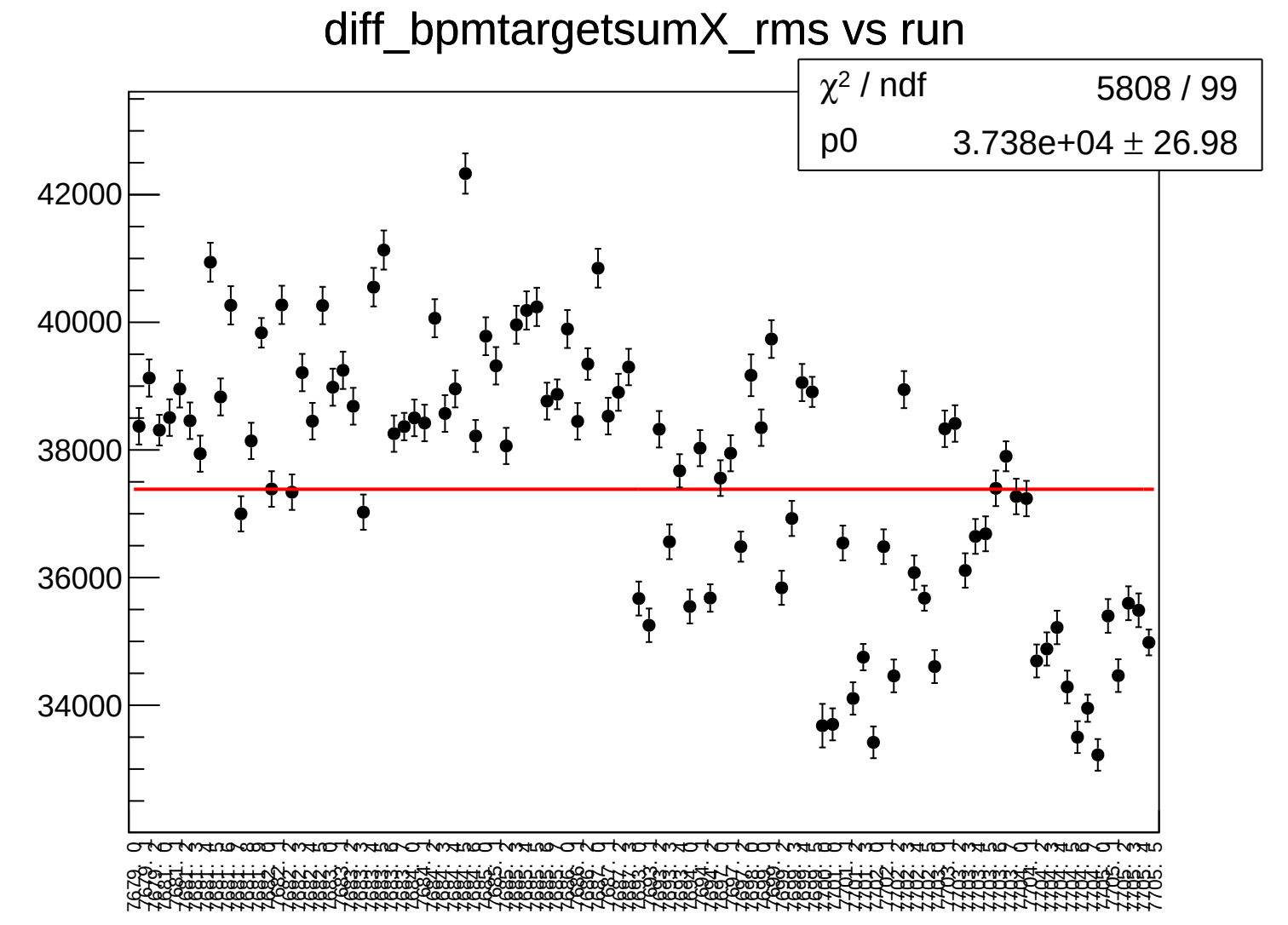

diff_bpm4aediffY_mean vs run
χ² / ndf 102.9 / 99
p0 −0.1611 ± 1.427
pull
Entries 100
Mean 132.3
Std Dev 0

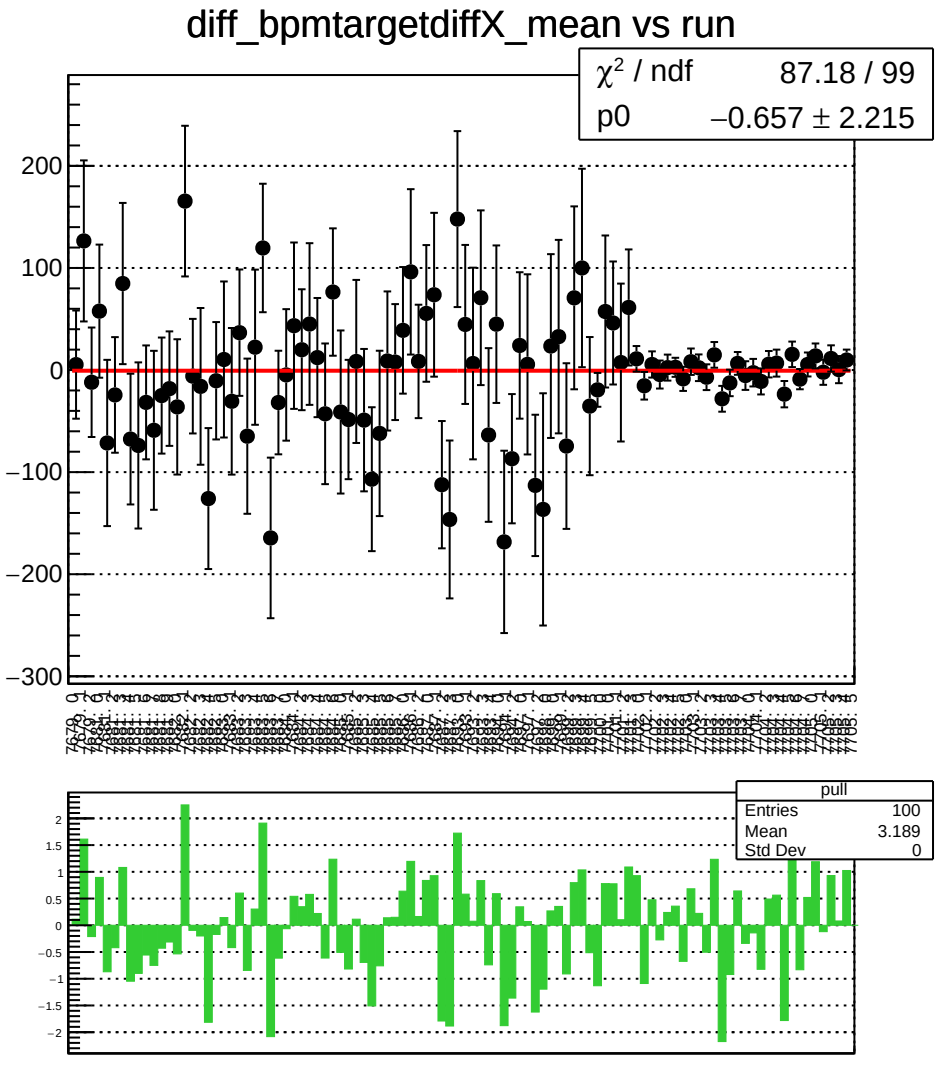

pull1D
Entries 100
Mean −0.01164
Std Dev 1.014

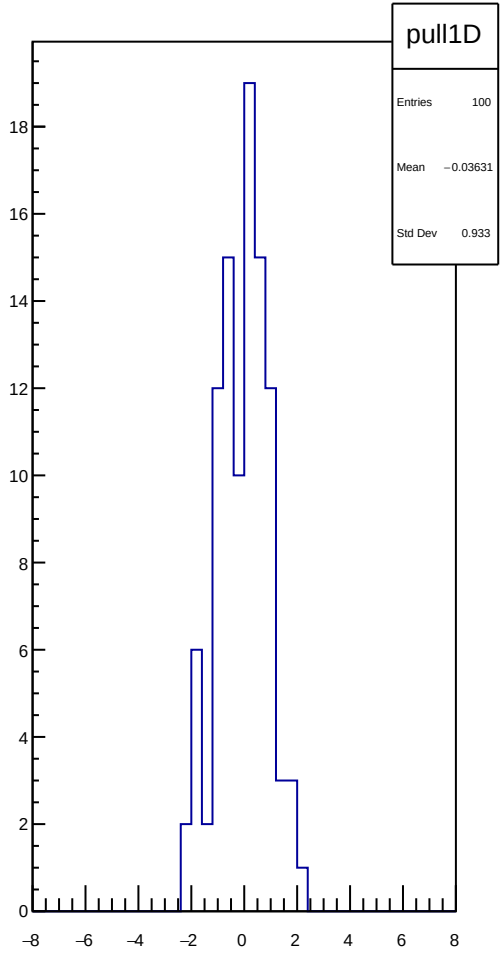

diff_bpm4aediffY_rms vs run
χ² / ndf 2.79e+04 / 99
p0 1389 ± 1.009
1900
1800
1700
1600
1500
1400
1300
1200

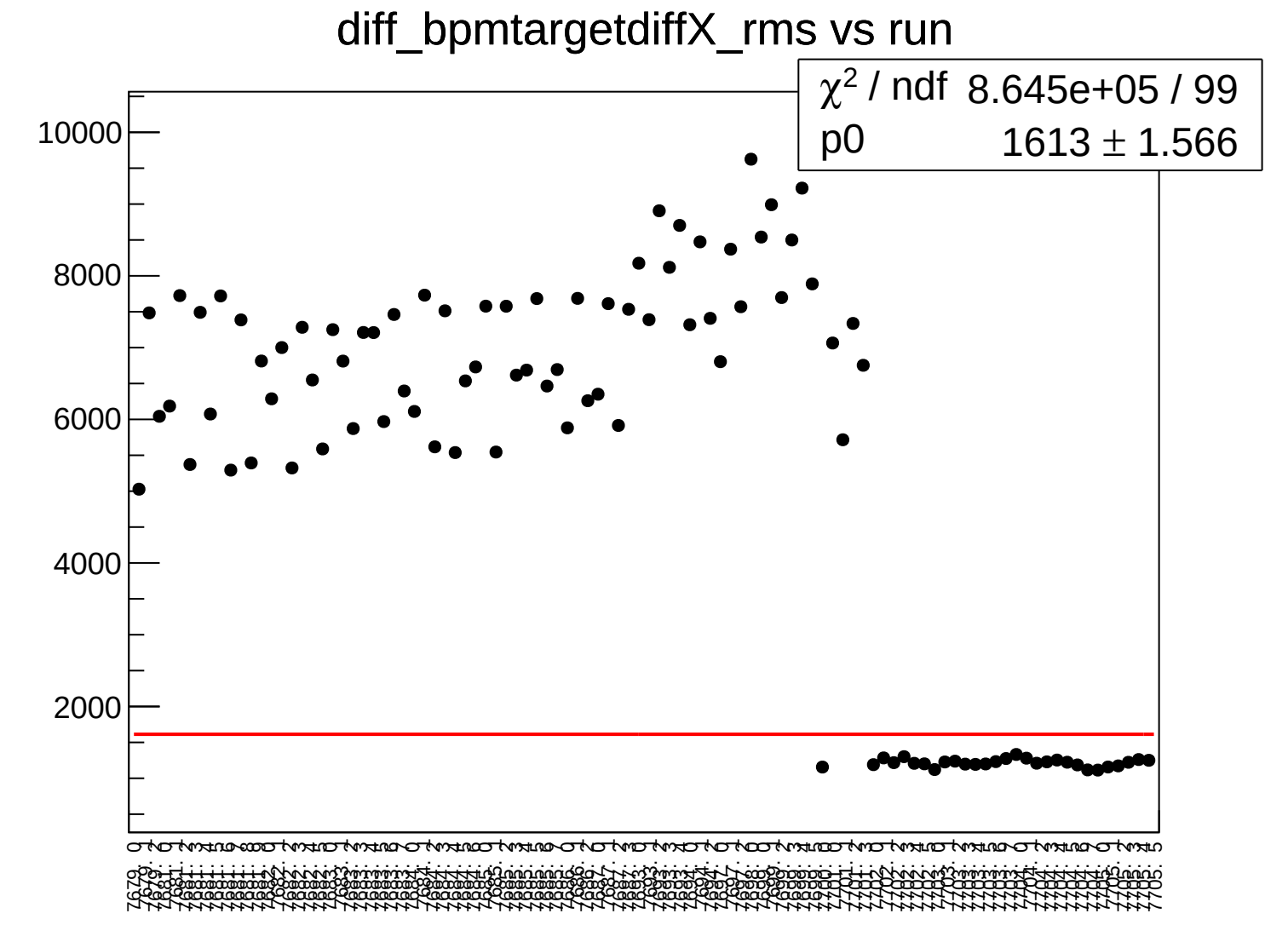

diff_bpmtargetsumX_mean vs run
χ² / ndf 86.82 / 99
p0 9.647 ± 38.16
1500
1000
500
0
−500
−1000
−1500
pull
Entries 100
Mean −804.7
Std Dev 0
2
1
0
−1
−2

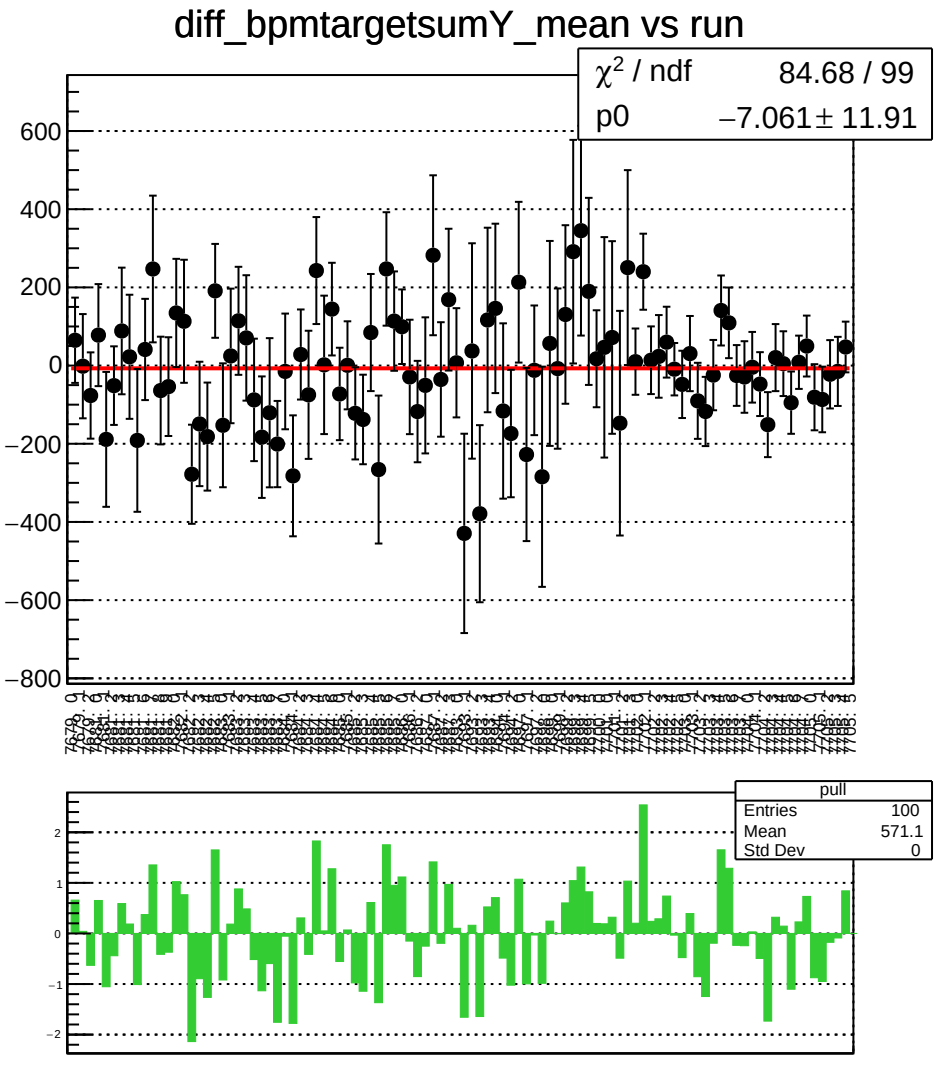

pull1D
Entries 100
Mean 0.005753
Std Dev 0.9318
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

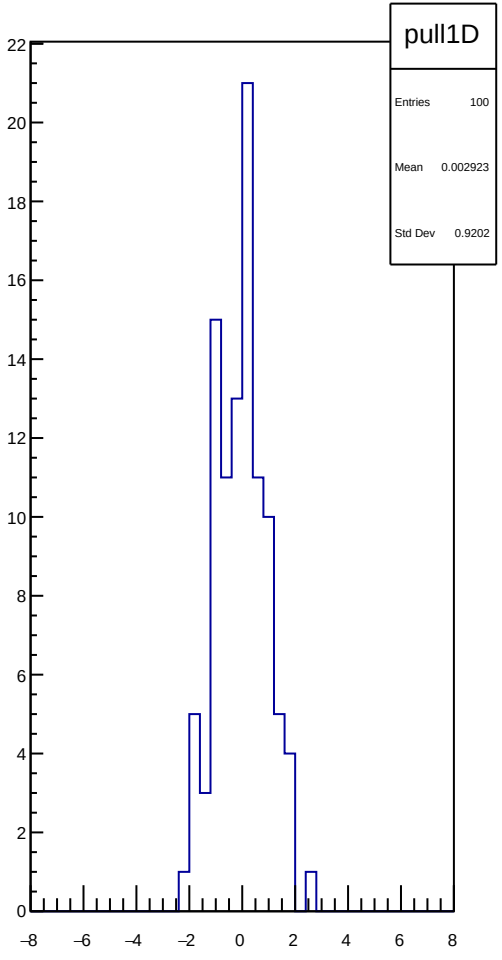

diff_bpmtargetsumX_rms vs run
χ² / ndf 5808 / 99
p0 3.738e+04 ± 26.98
42000
40000
38000
36000
34000

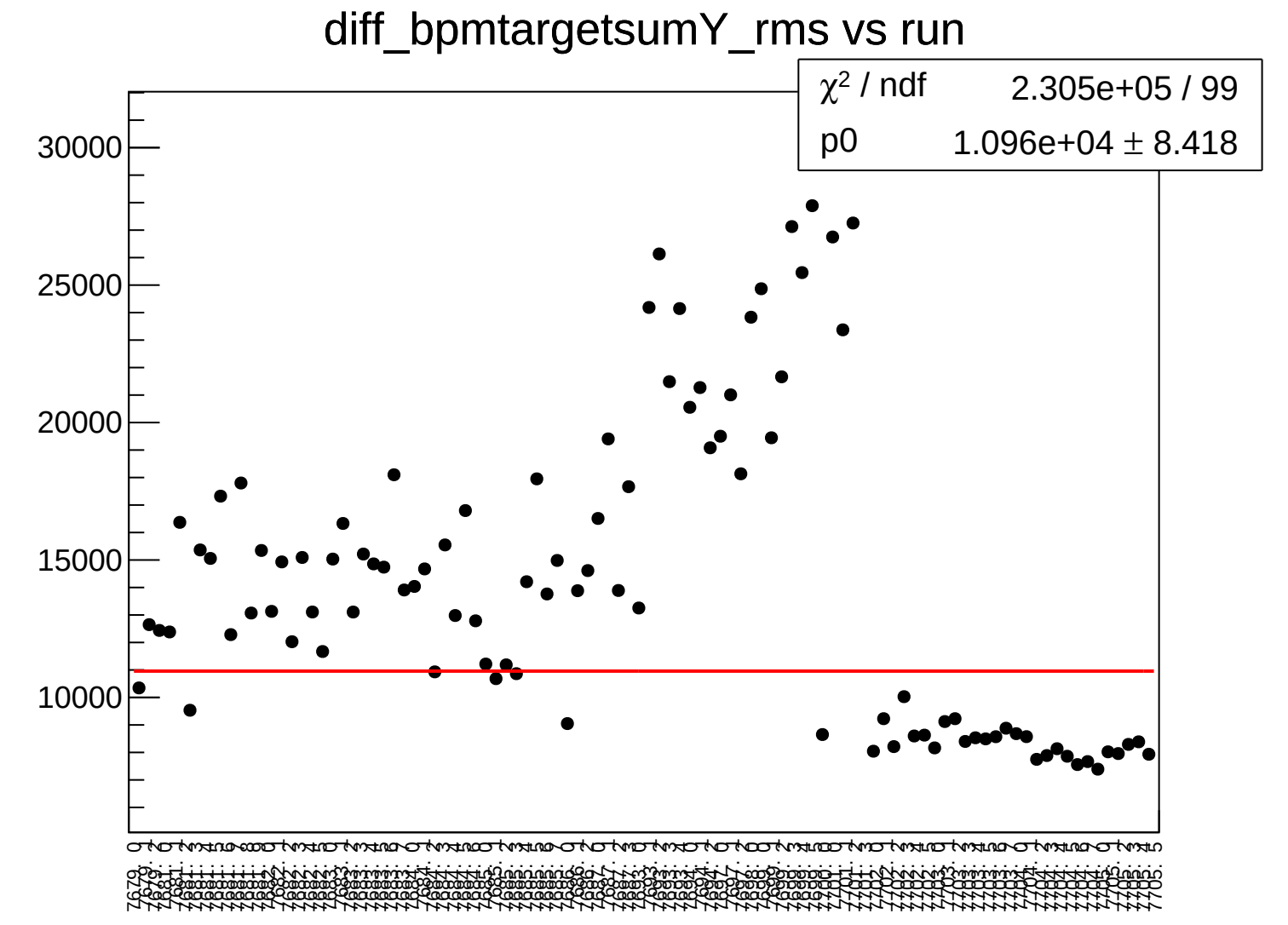

diff_bpmtargetdiffX_mean vs run
χ² / ndf 87.18 / 99
p0 −0.657 ± 2.215
200
100
0
−100
−200
−300
pull
Entries 100
Mean 3.189
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

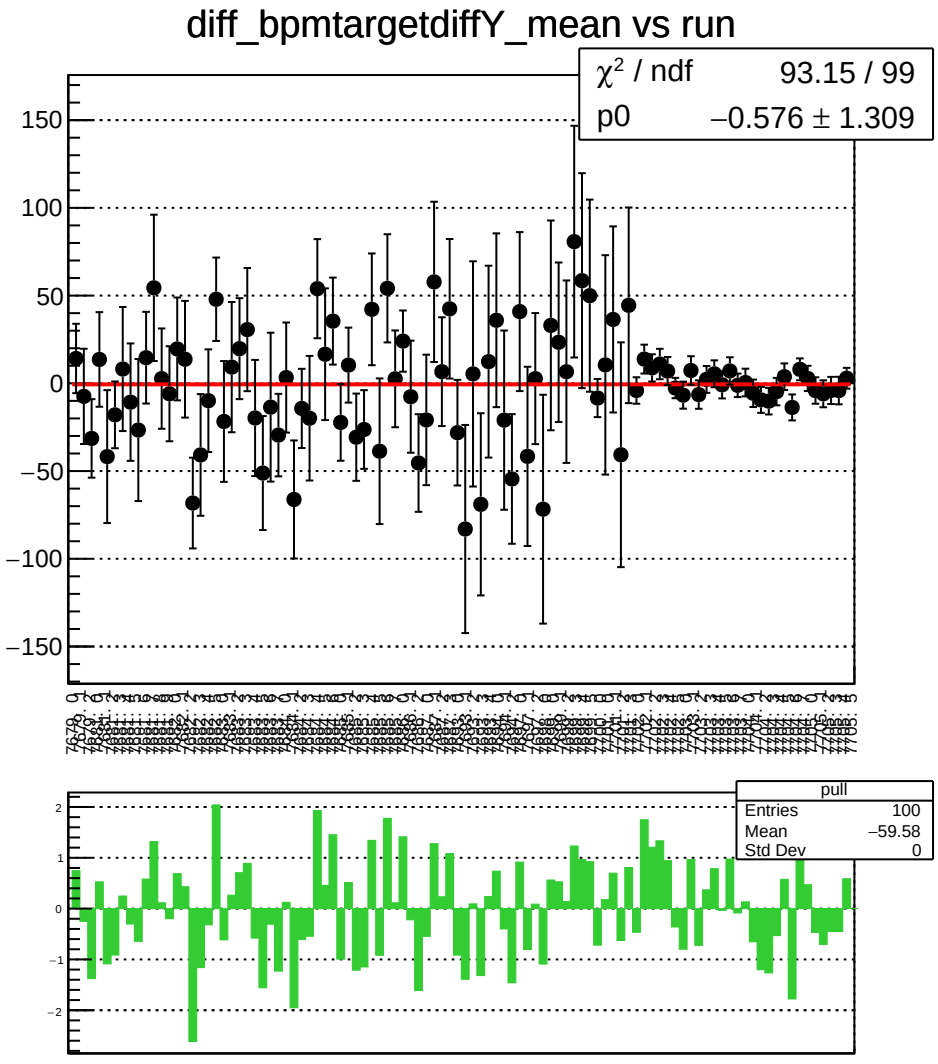

pull1D
Entries 100
Mean −0.03631
Std Dev 0.933
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

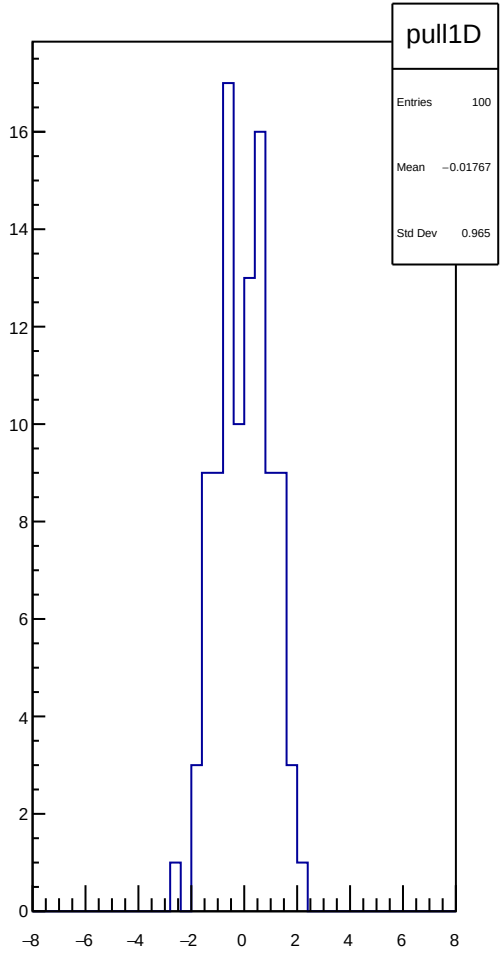

diff_bpmtargetdiffX_rms vs run
χ^2 / ndf 8.645e+05 / 99
p0 1613 ± 1.566
10000
8000
6000
4000
2000

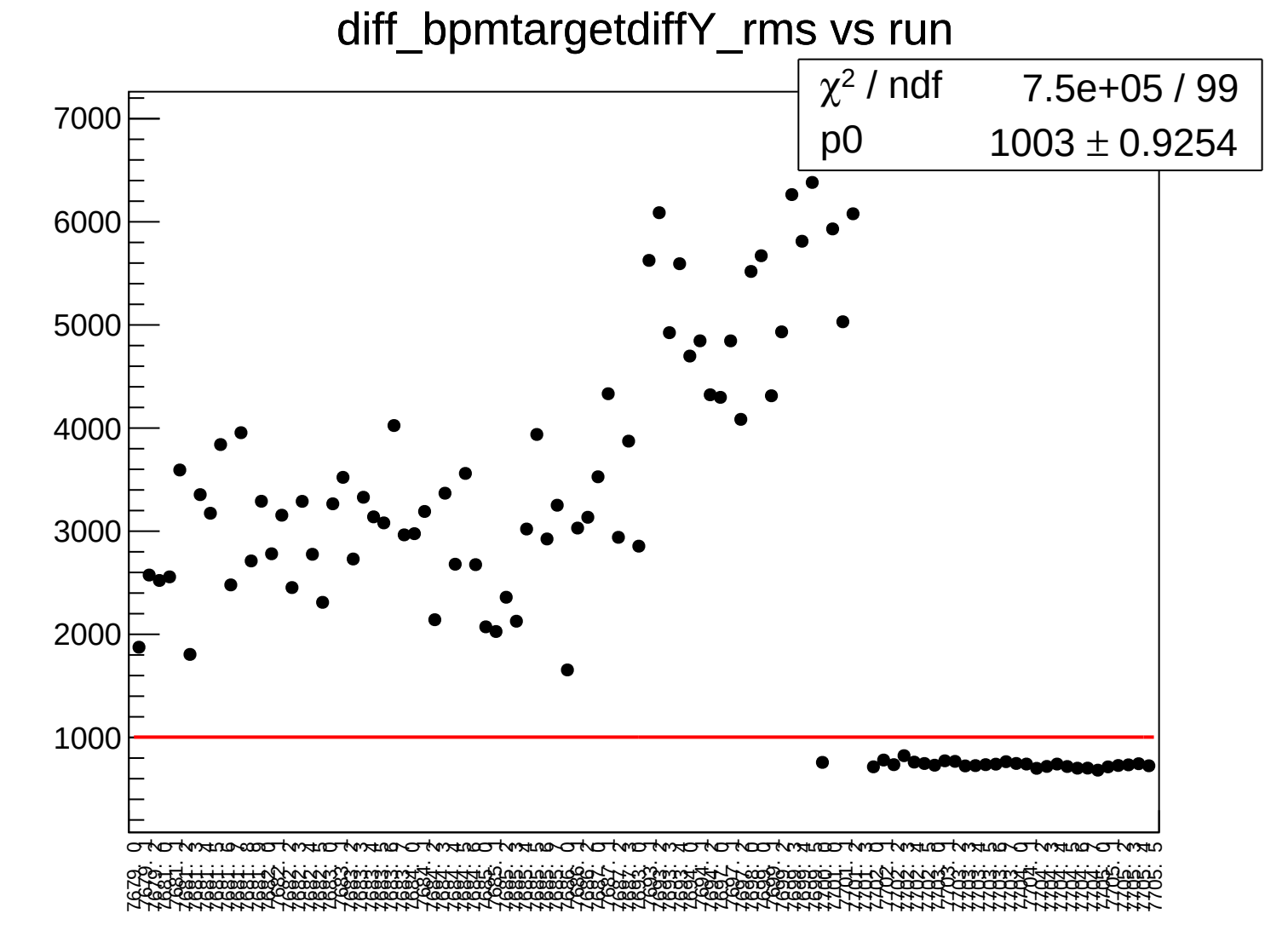

diff_bpmtargetsumY_mean vs run
χ² / ndf 84.68 / 99
p0 −7.061 ± 11.91
pull
Entries 100
Mean 571.1
Std Dev 0

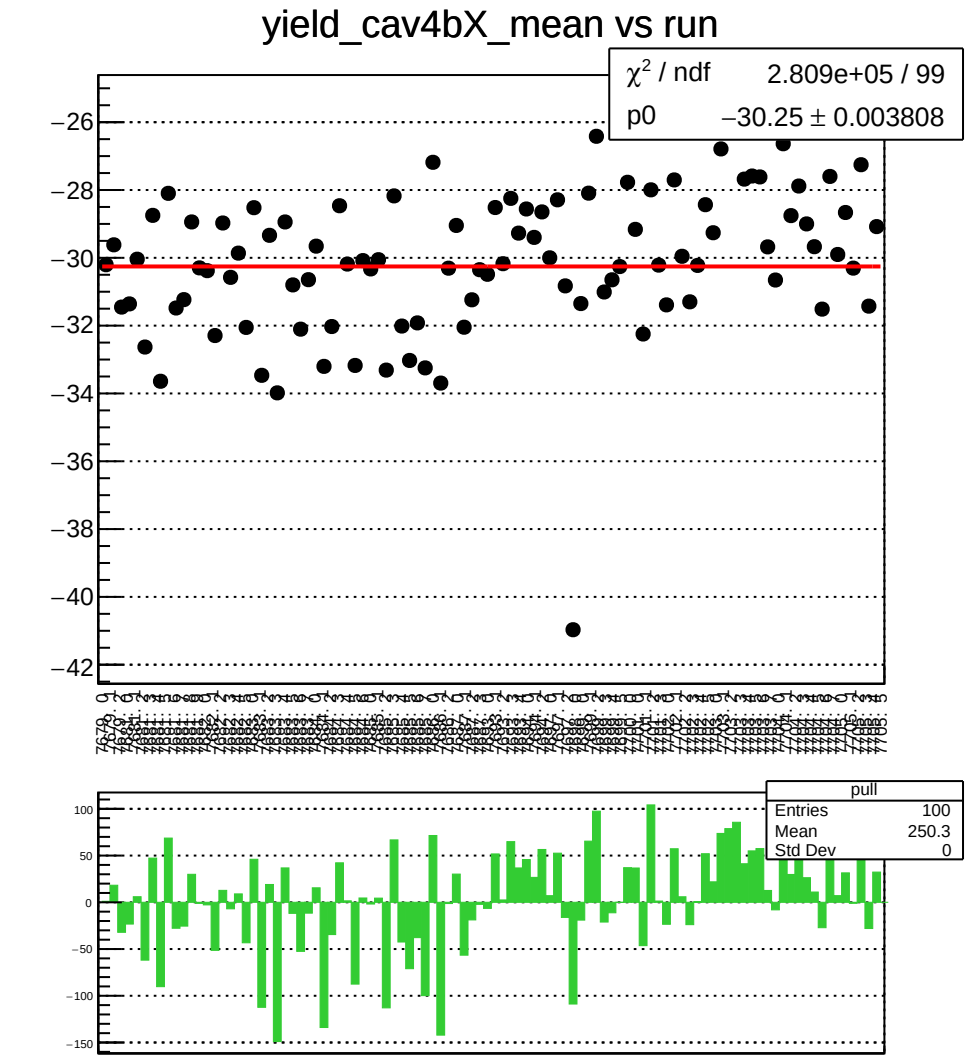

pull1D
Entries 100
Mean 0.002923
Std Dev 0.9202

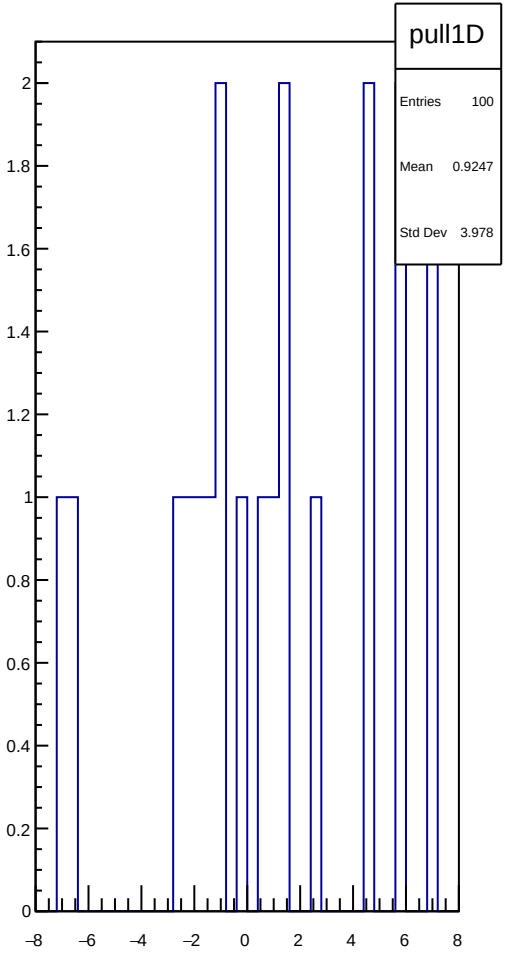

diff_bpmtargetsumY_rms vs run
χ² / ndf 2.305e+05 / 99
p0 1.096e+04 ± 8.418
30000
25000
20000
15000
10000

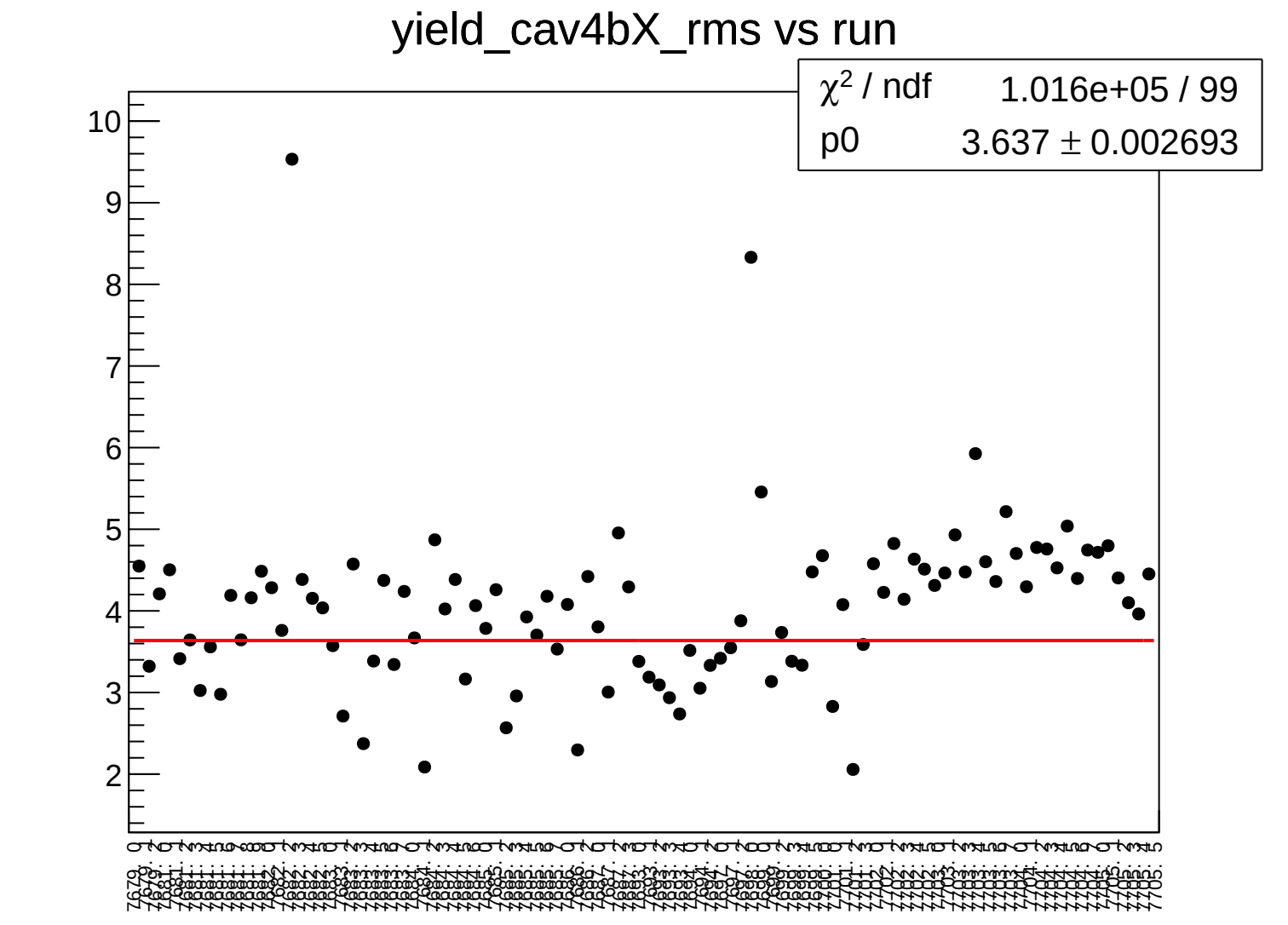

diff_bpmtargetdiffY_mean vs run
χ² / ndf 93.15 / 99
p0 −0.576 ± 1.309
150
100
50
0
−50
−100
−150
pull
Entries 100
Mean −59.58
Std Dev 0
2
1
0
−1
−2

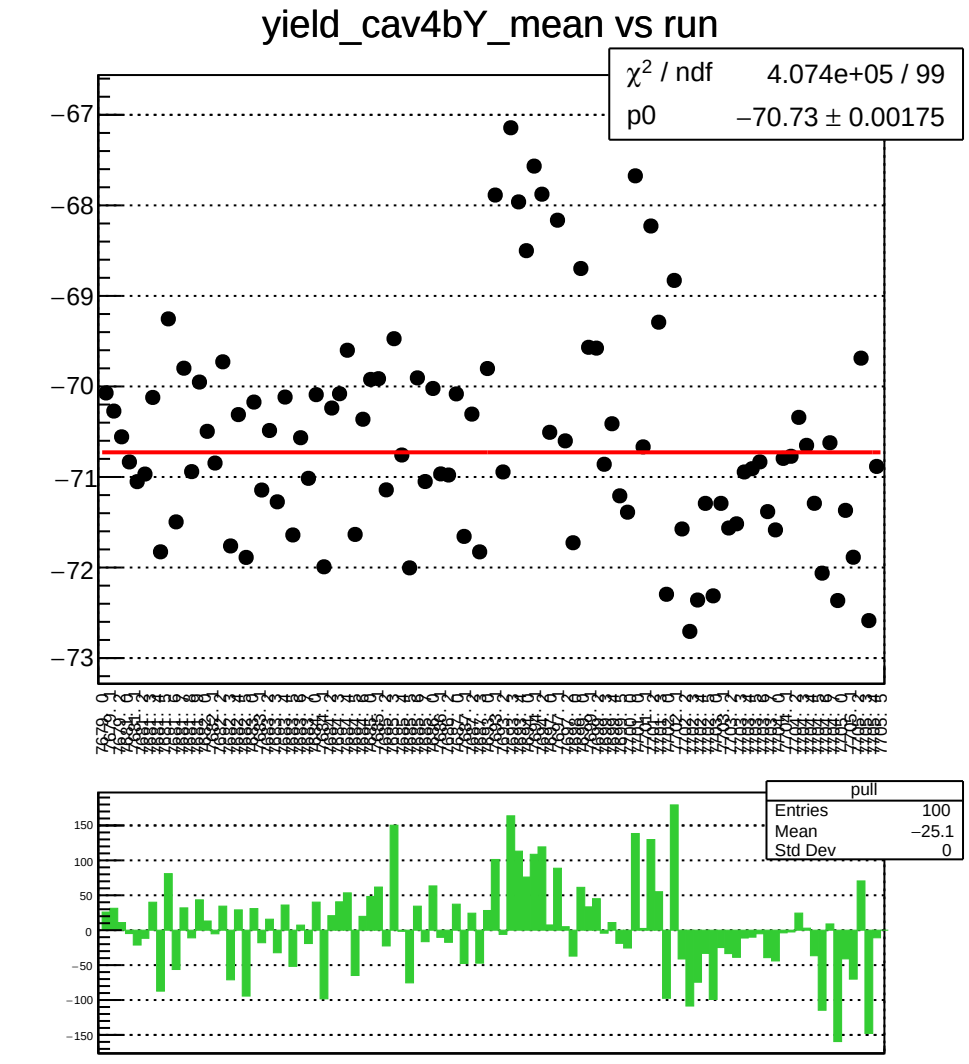

pull1D
Entries 100
Mean −0.01767
Std Dev 0.965
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

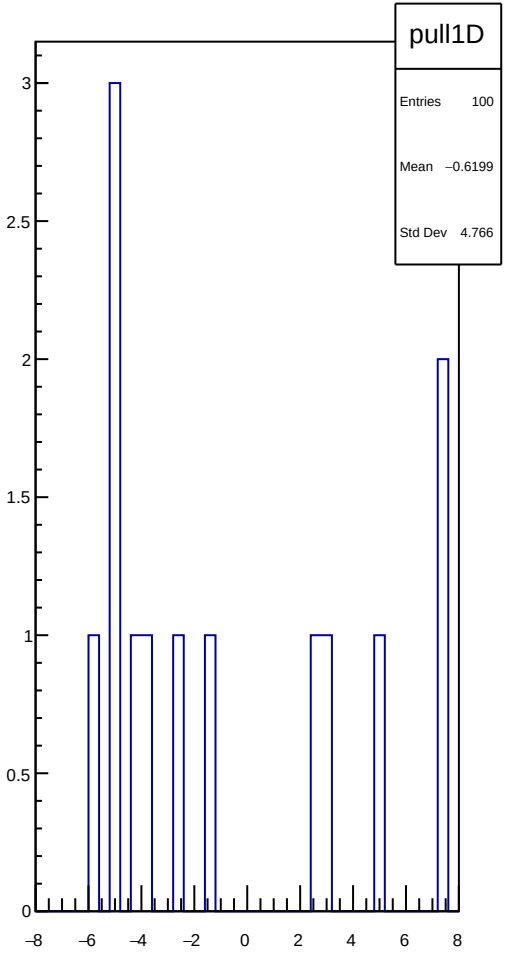

diff_bpmtargetdiffY_rms vs run
χ^2 / ndf 7.5e+05 / 99
p0 1003 ± 0.9254
7000
6000
5000
4000
3000
2000
1000

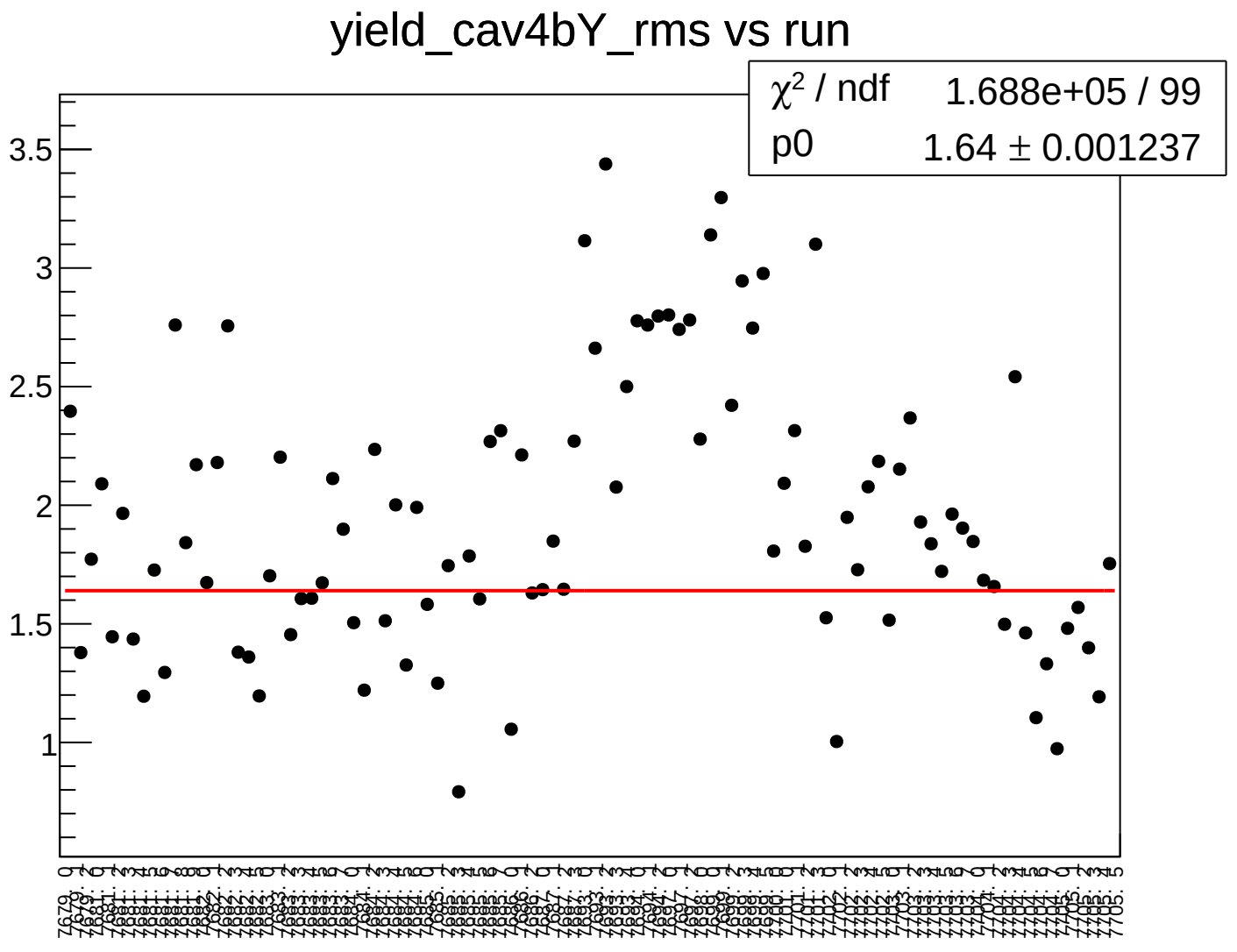

yield_cav4bX_mean vs run
χ² / ndf 2.809e+05 / 99
p0 −30.25 ± 0.003808
pull
Entries 100
Mean 250.3
Std Dev 0

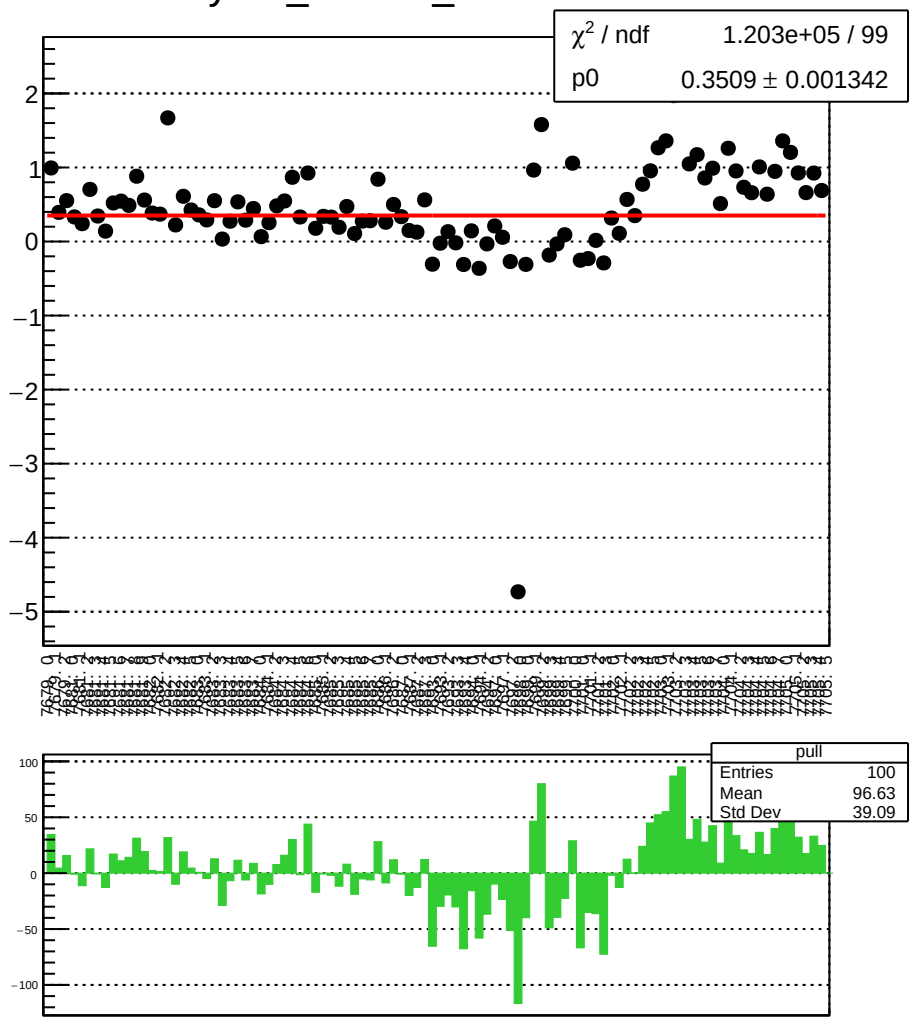

pull1D
Entries 100
Mean 0.9247
Std Dev 3.978

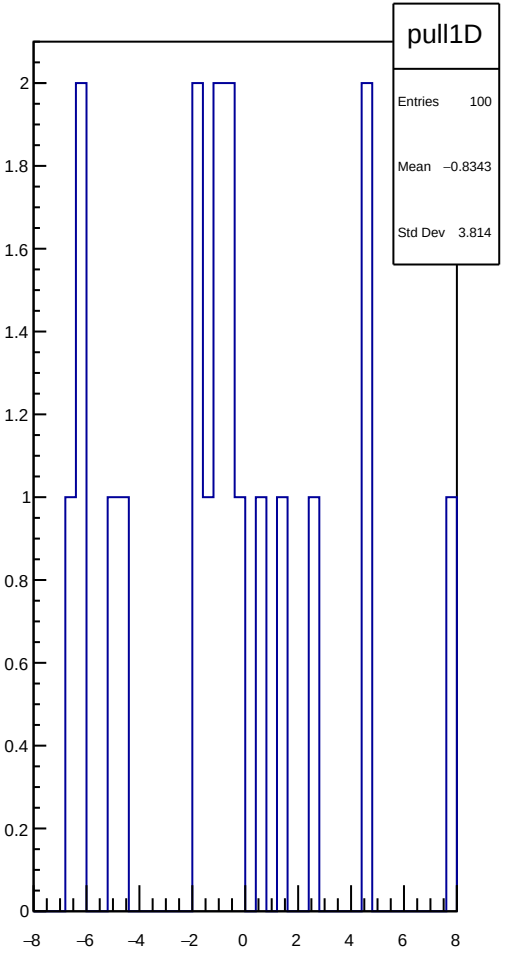

yield_cav4bX_rms vs run
χ^2 / ndf 1.016e+05 / 99
p0 3.637 ± 0.002693
10
9
8
7
6
5
4
3
2

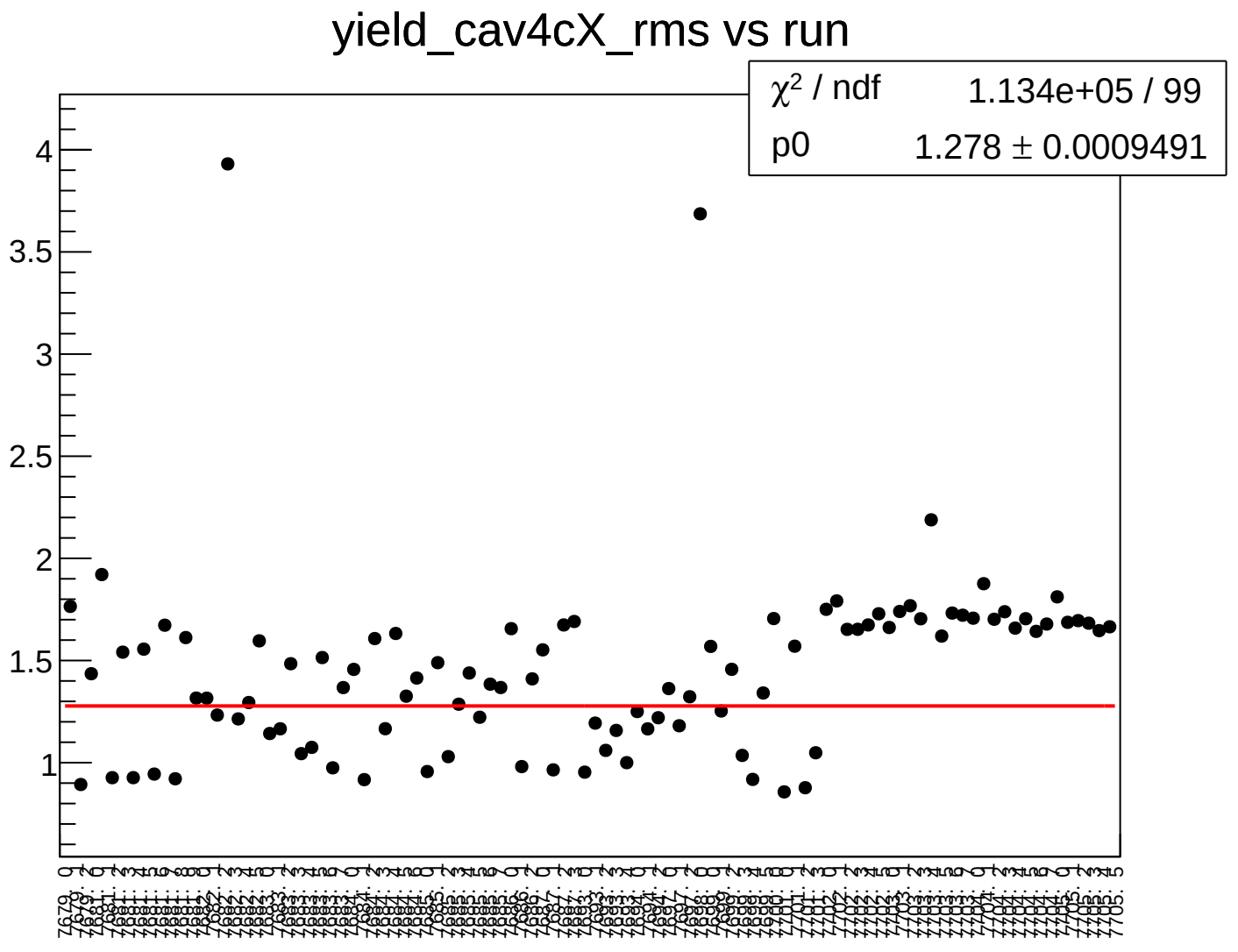

yield_cav4bY_mean vs run
χ² / ndf 4.074e+05 / 99
p0 −70.73 ± 0.00175
−67
−68
−69
−70
−71
−72
−73
pull
Entries 100
Mean −25.1
Std Dev 0
150
100
50
0
−50
−100
−150

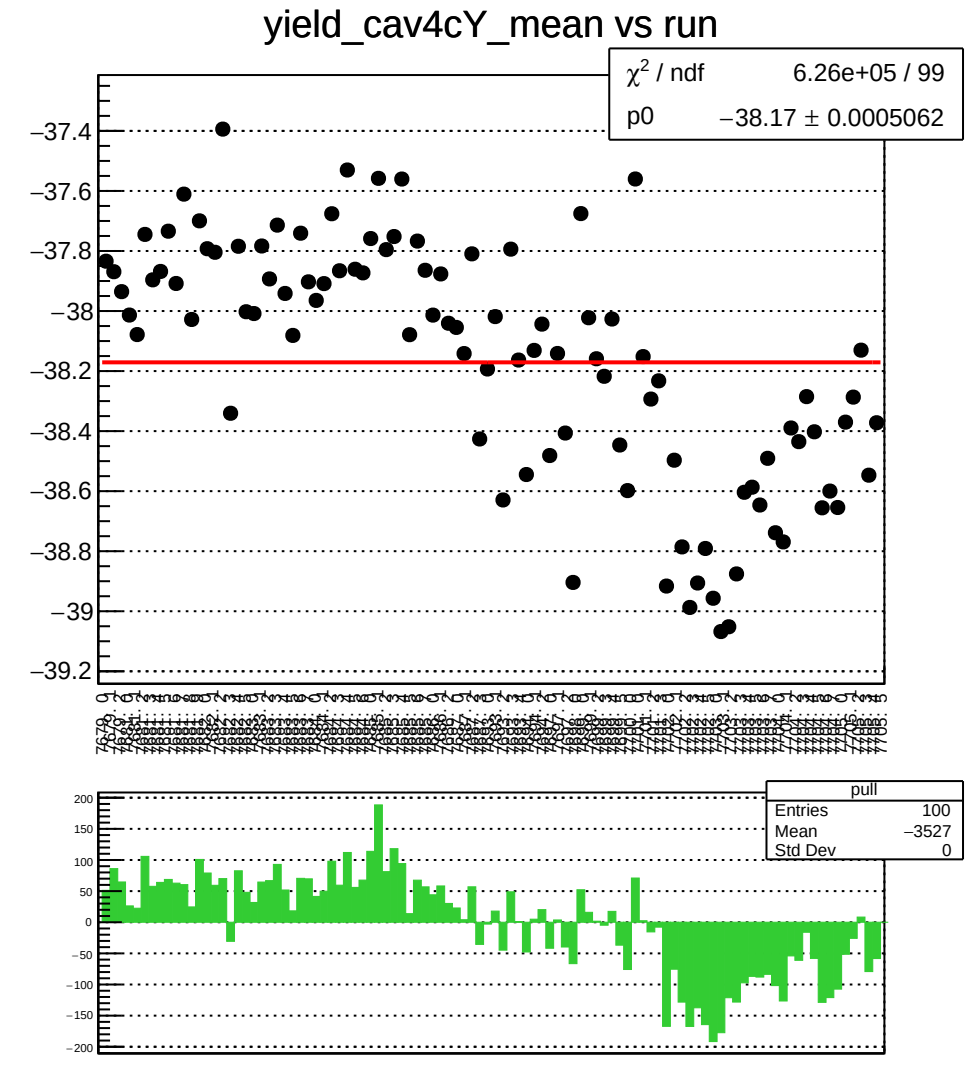

pull1D
Entries 100
Mean −0.6199
Std Dev 4.766
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

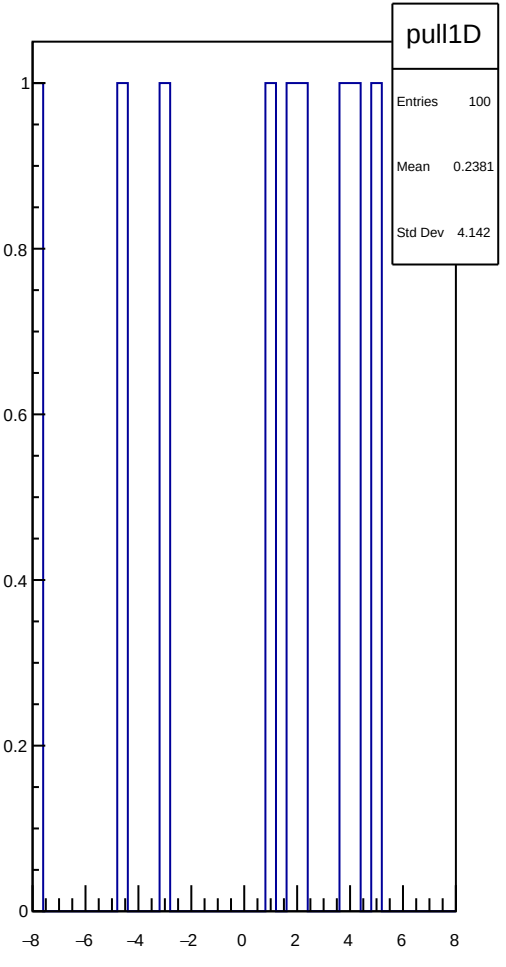

yield_cav4bY_rms vs run
χ² / ndf 1.688e+05 / 99
p0 1.64 ± 0.001237
3.5
3
2.5
2
1.5
1

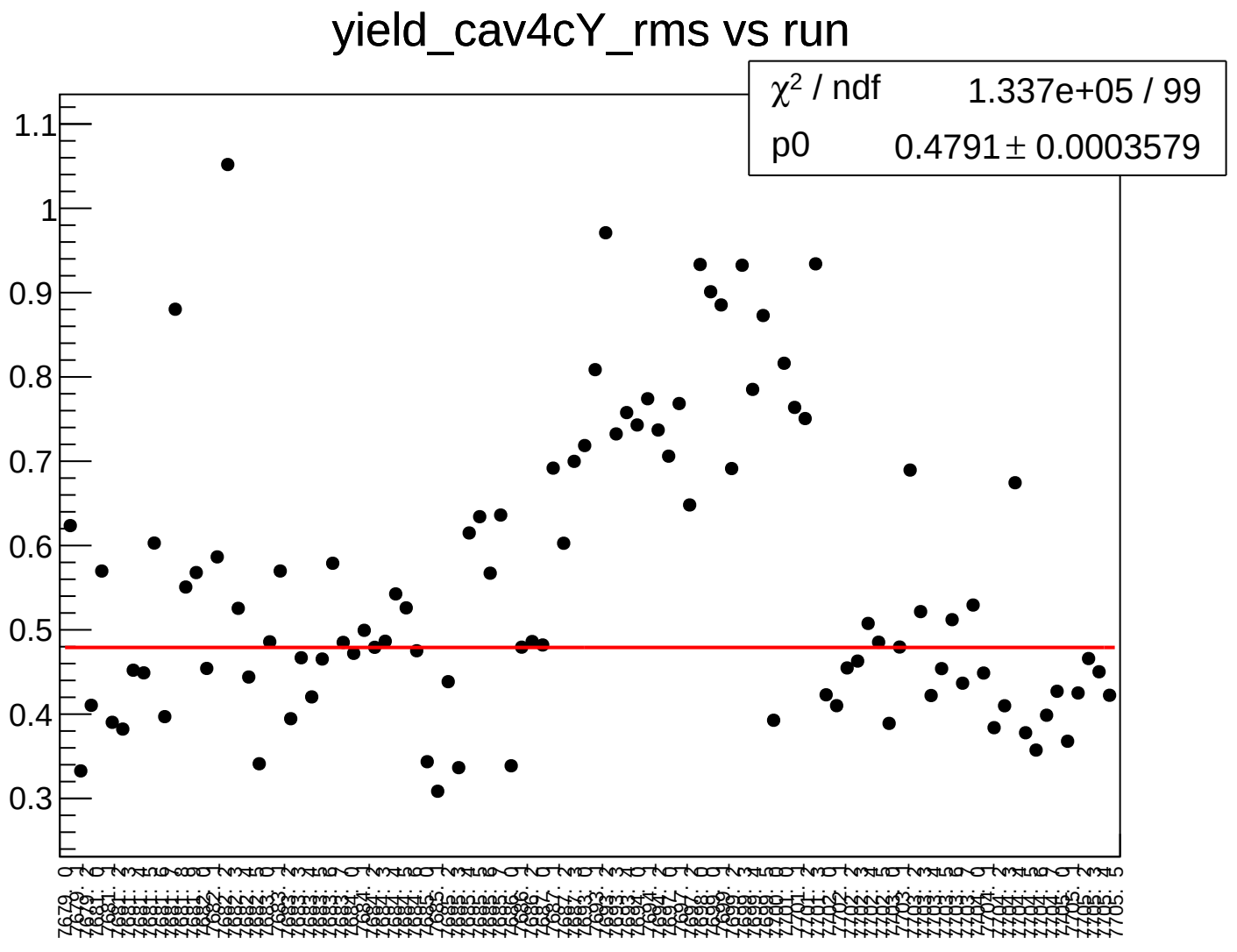

yield_cav4cX_mean vs run
χ² / ndf 1.203e+05 / 99
p0 0.3509 ± 0.001342
pull
Entries 100
Mean 96.63
Std Dev 39.09

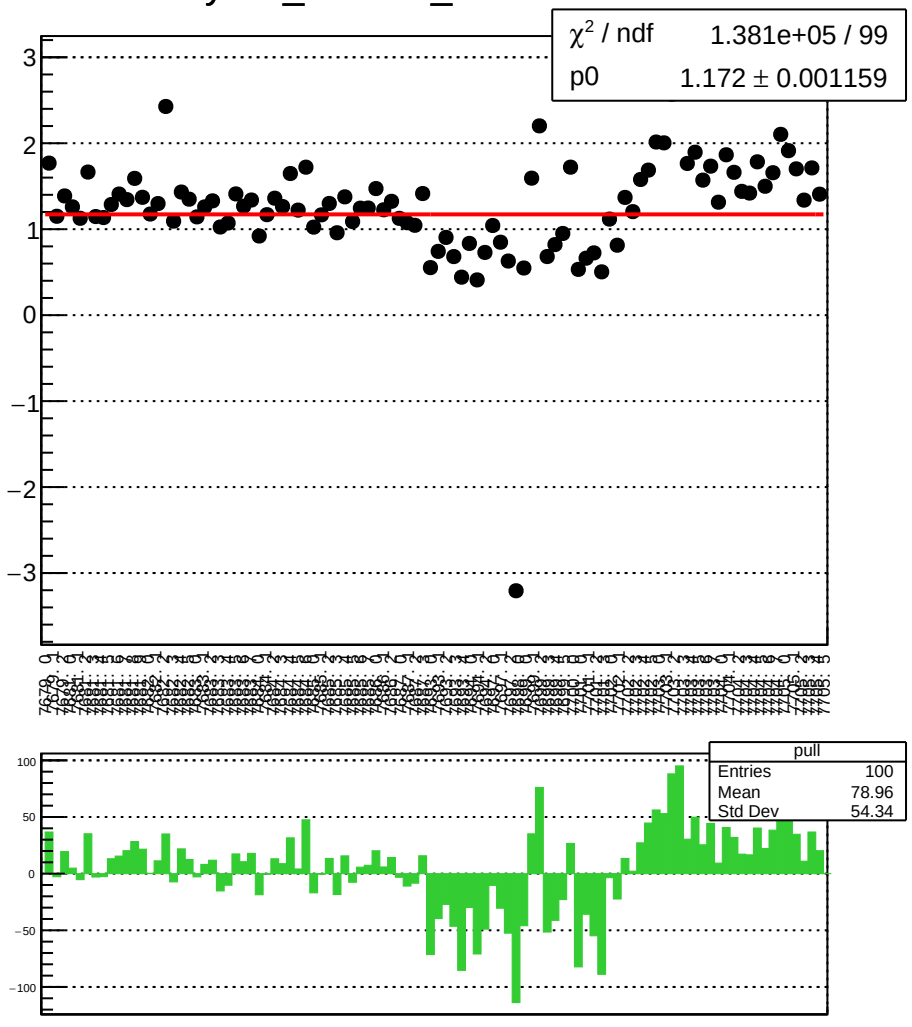

pull1D
Entries 100
Mean −0.8343
Std Dev 3.814

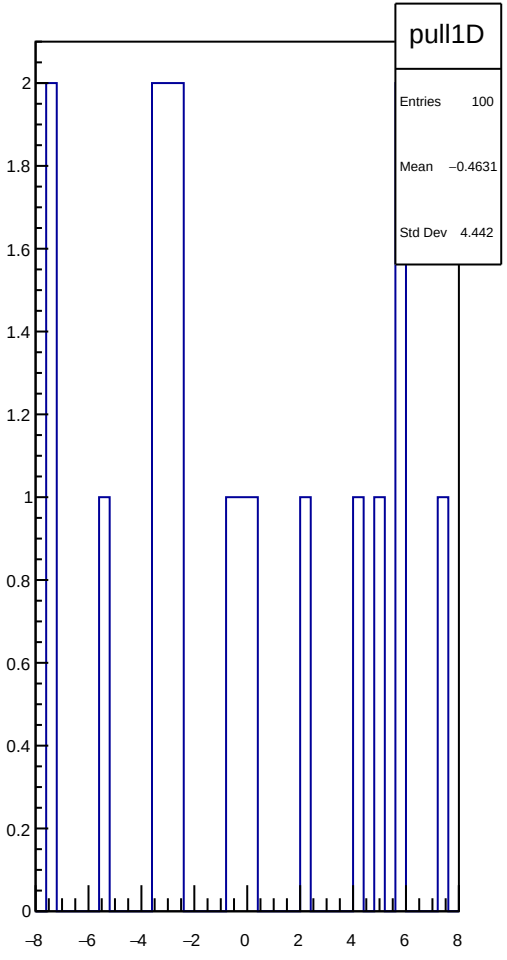

yield_cav4cX_rms vs run
χ² / ndf 1.134e+05 / 99
p0 1.278 ± 0.0009491
4
3.5
3
2.5
2
1.5
1

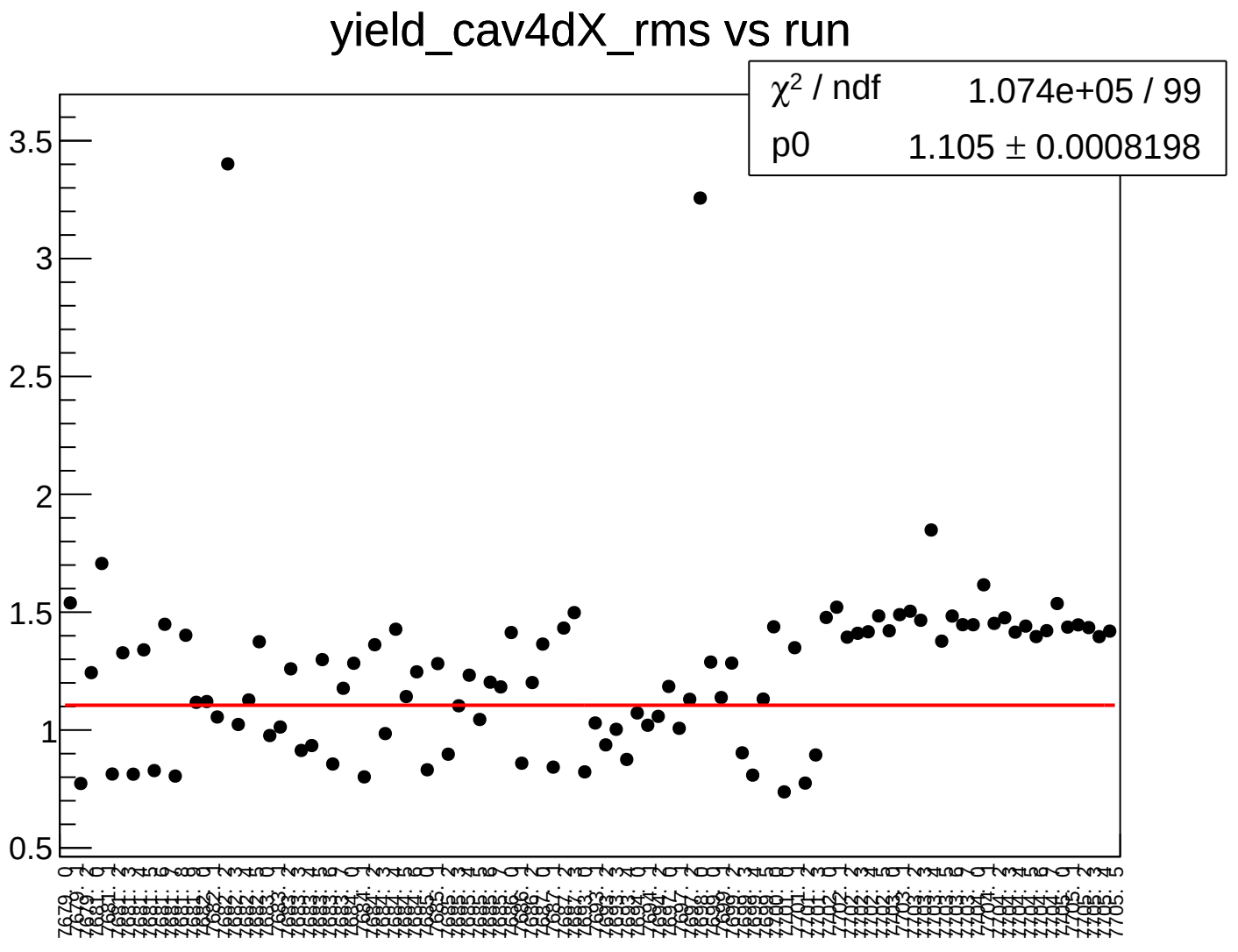

yield_cav4cY_mean vs run
χ² / ndf 6.26e+05 / 99
p0 −38.17 ± 0.0005062
−37.4
−37.6
−37.8
−38
−38.2
−38.4
−38.6
−38.8
−39
−39.2
pull
Entries 100
Mean −3527
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

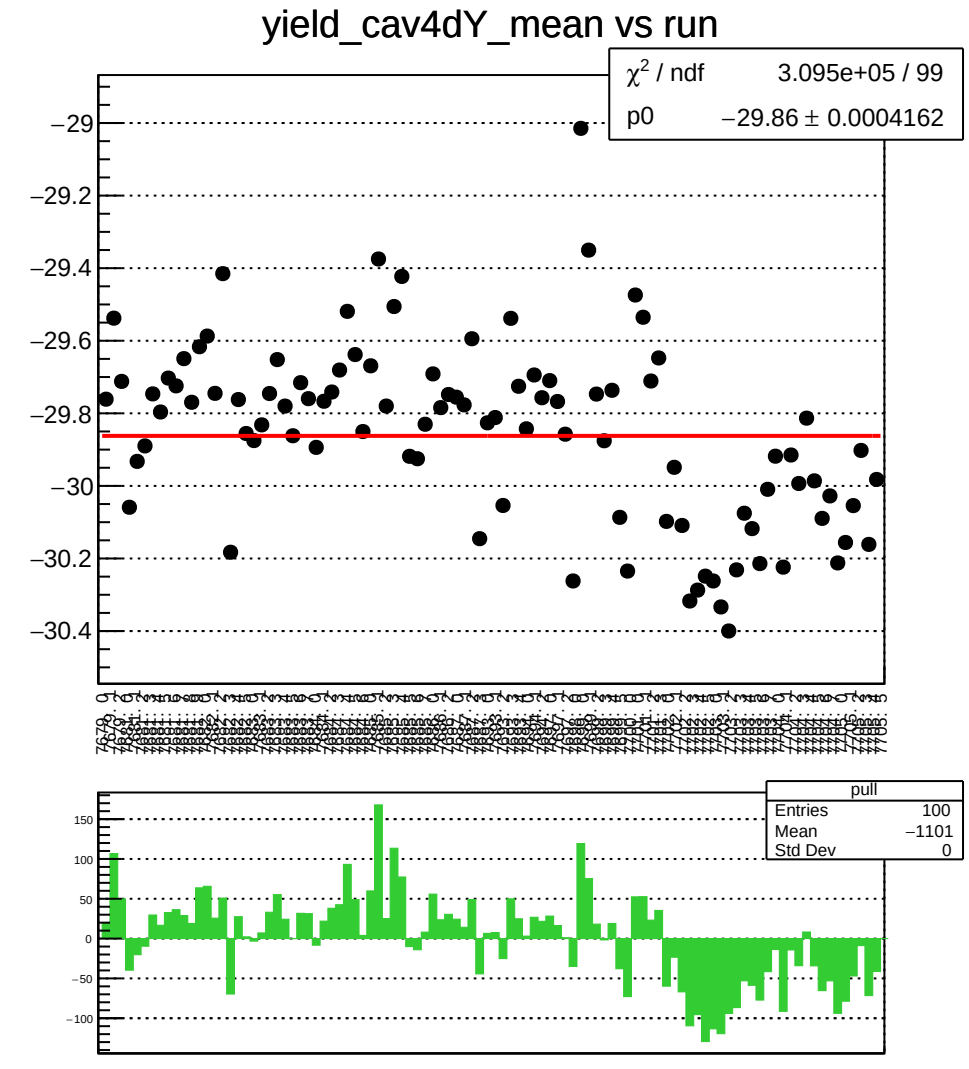

pull1D
Entries 100
Mean 0.2381
Std Dev 4.142
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

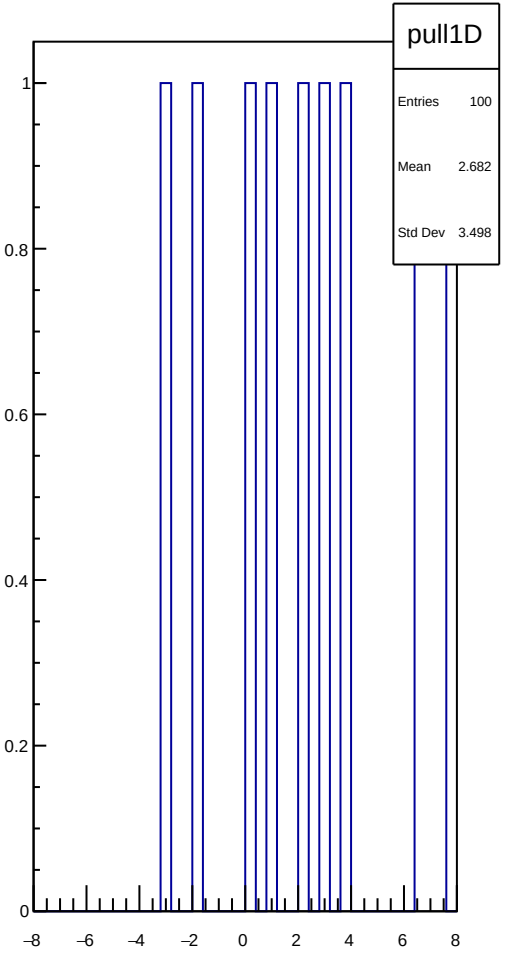

yield_cav4cY_rms vs run
χ² / ndf 1.337e+05 / 99
p0 0.4791 ± 0.0003579
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3

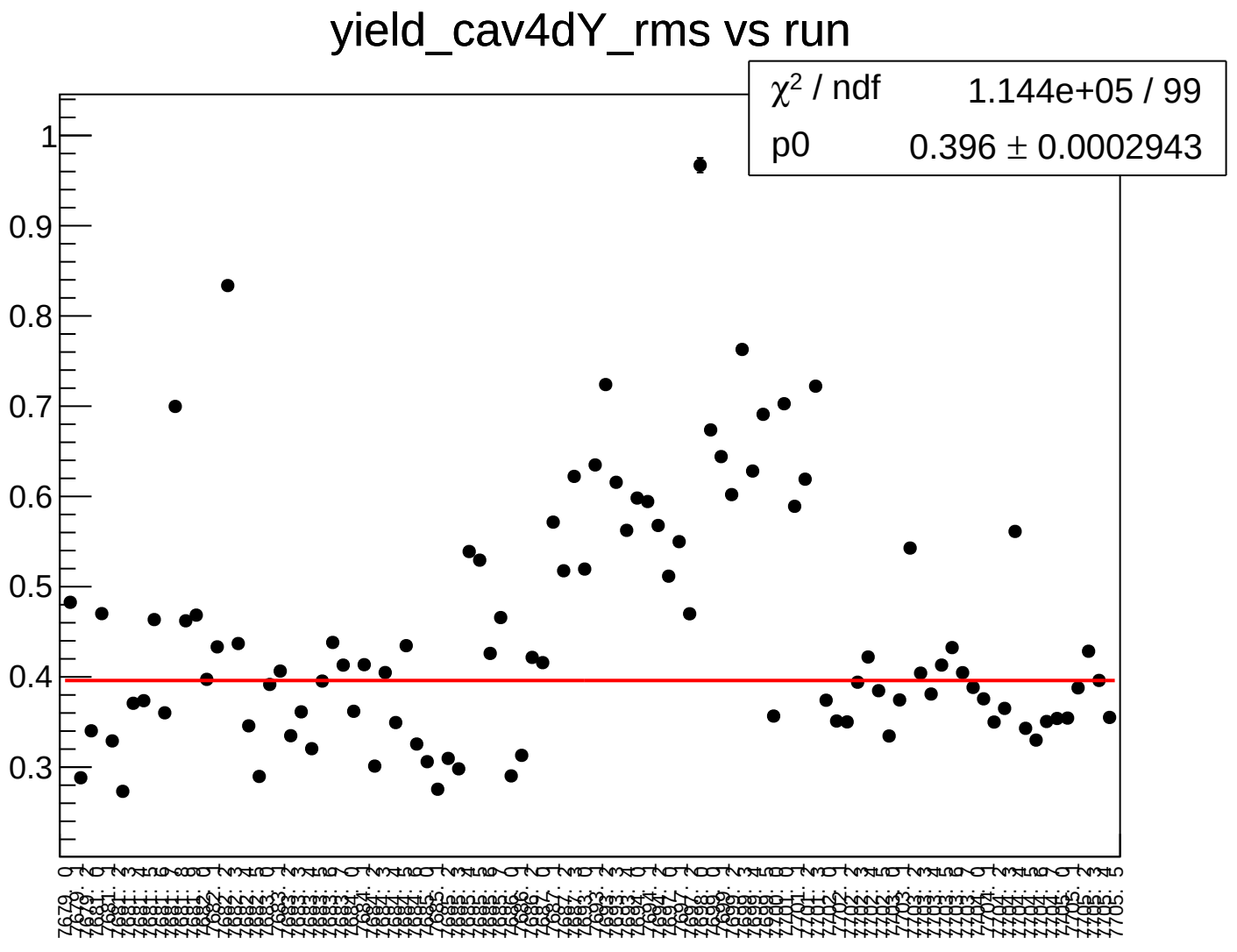

yield_cav4dX_mean vs run
χ² / ndf 1.381e+05 / 99
p0 1.172 ± 0.001159
pull
Entries 100
Mean 78.96
Std Dev 54.34

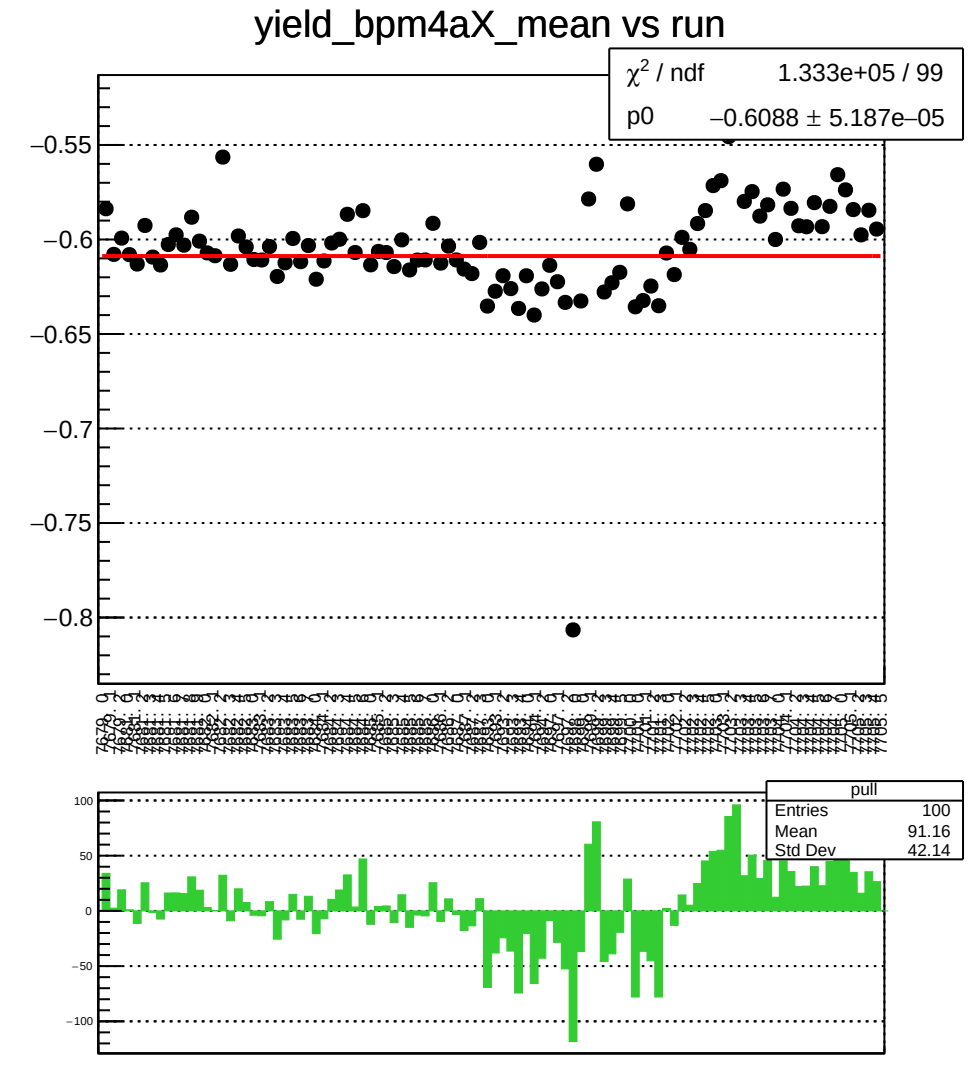

pull1D
Entries 100
Mean −0.4631
Std Dev 4.442

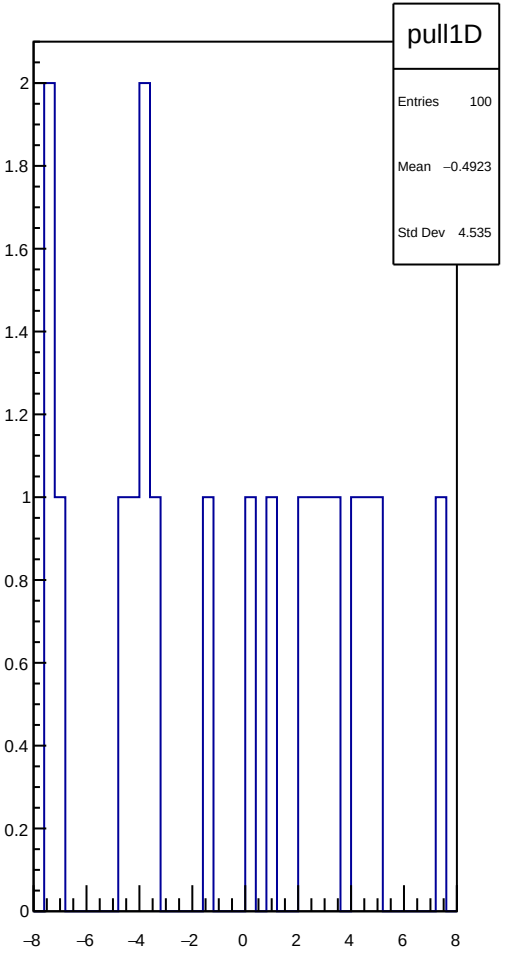

yield_cav4dX_rms vs run
χ² / ndf 1.074e+05 / 99
p0 1.105 ± 0.0008198
3.5
3
2.5
2
1.5
1
0.5

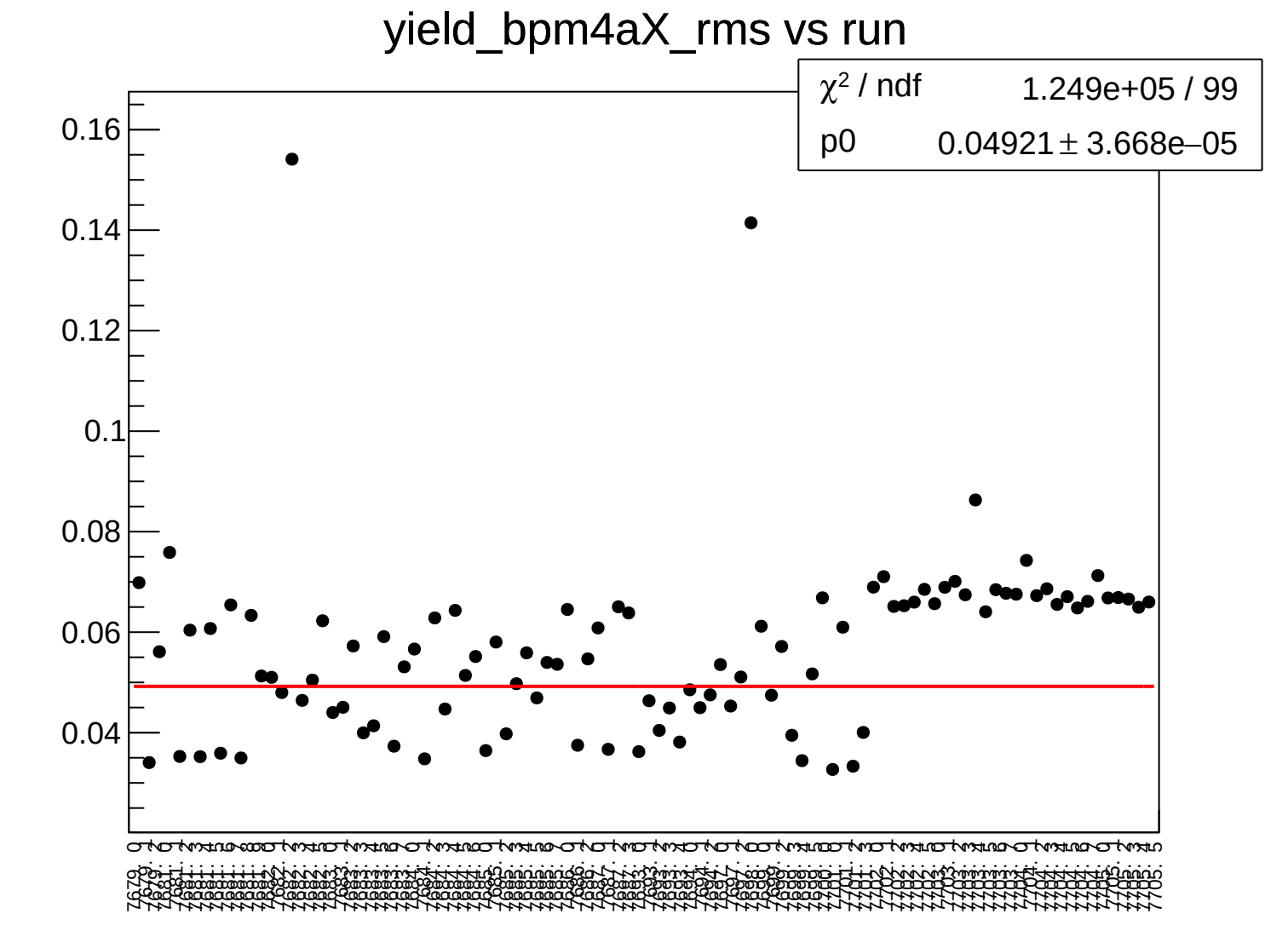

yield_cav4dY_mean vs run
χ² / ndf 3.095e+05 / 99
p0 −29.86 ± 0.0004162
−29
−29.2
−29.4
−29.6
−29.8
−30
−30.2
−30.4
pull
Entries 100
Mean −1101
Std Dev 0
150
100
50
0
−50
−100

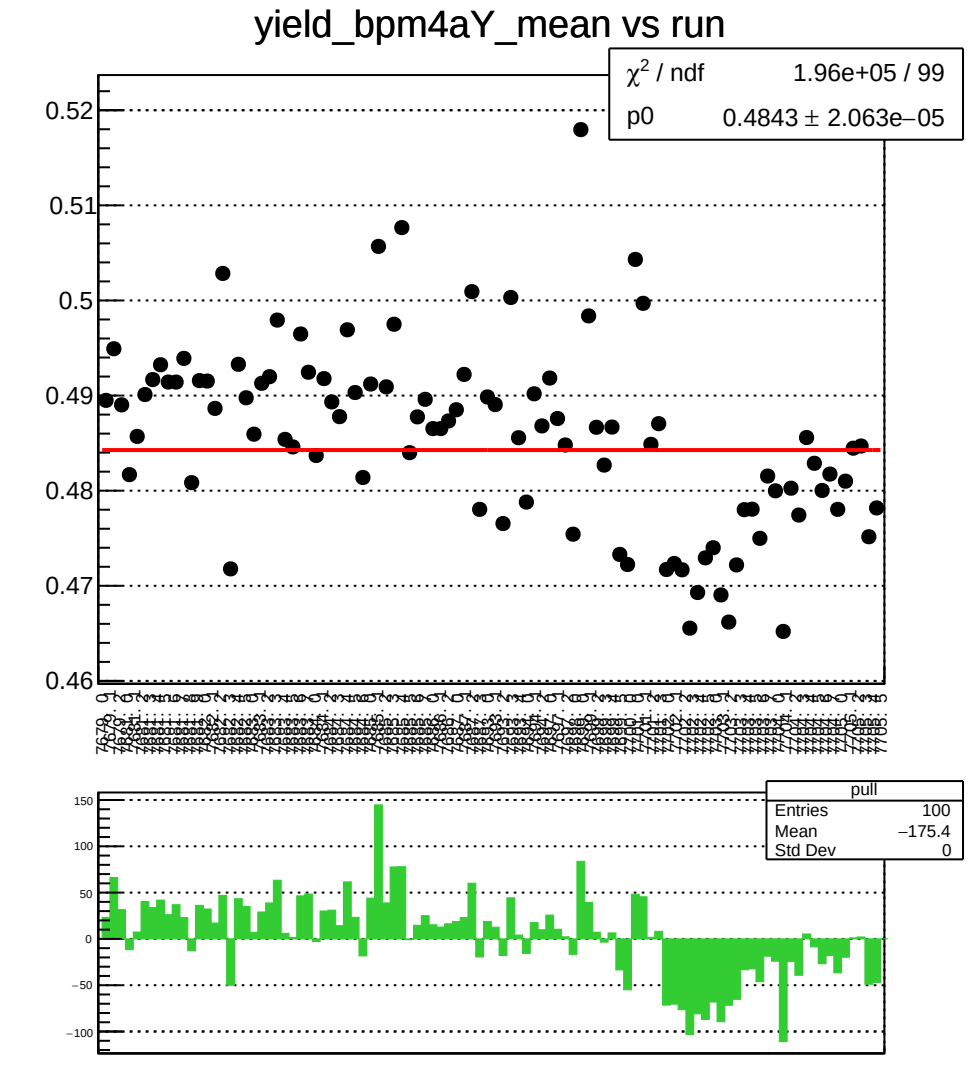

pull1D
Entries 100
Mean 2.682
Std Dev 3.498
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

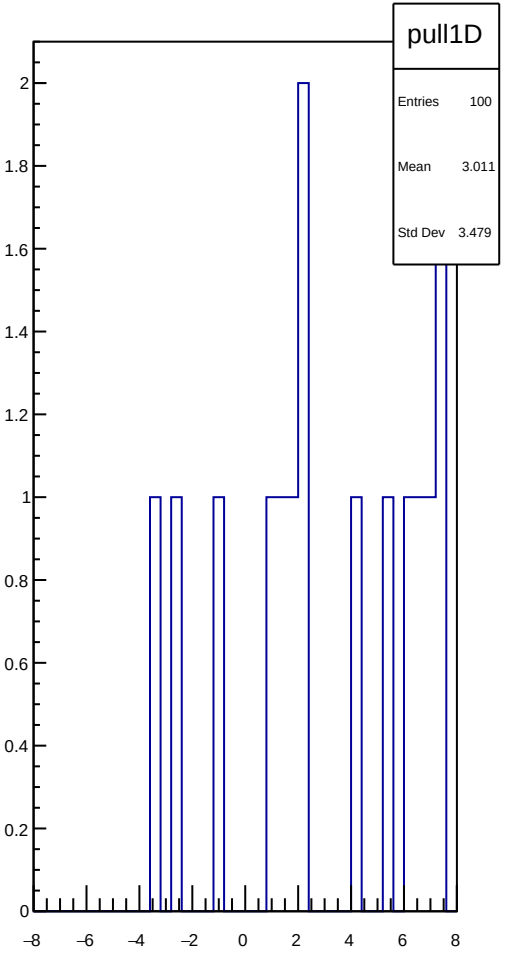

yield_cav4dY_rms vs run
χ² / ndf 1.144e+05 / 99
p0 0.396 ± 0.0002943
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3

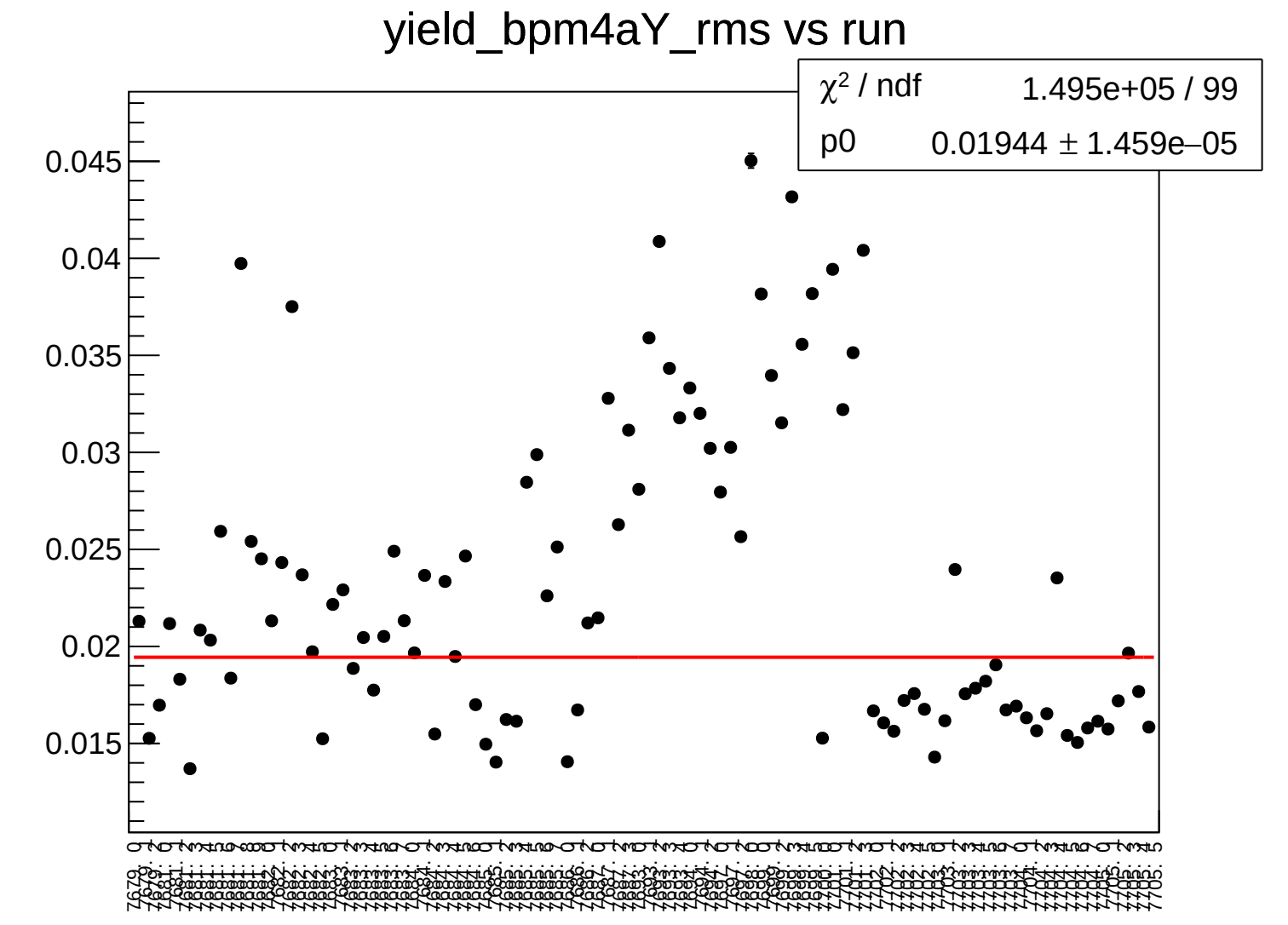

yield_bpm4aX_mean vs run
χ² / ndf 1.333e+05 / 99
p0 −0.6088 ± 5.187e−05
−0.55
−0.6
−0.65
−0.7
−0.75
−0.8
pull
Entries 100
Mean 91.16
Std Dev 42.14
100
50
0
−50
−100

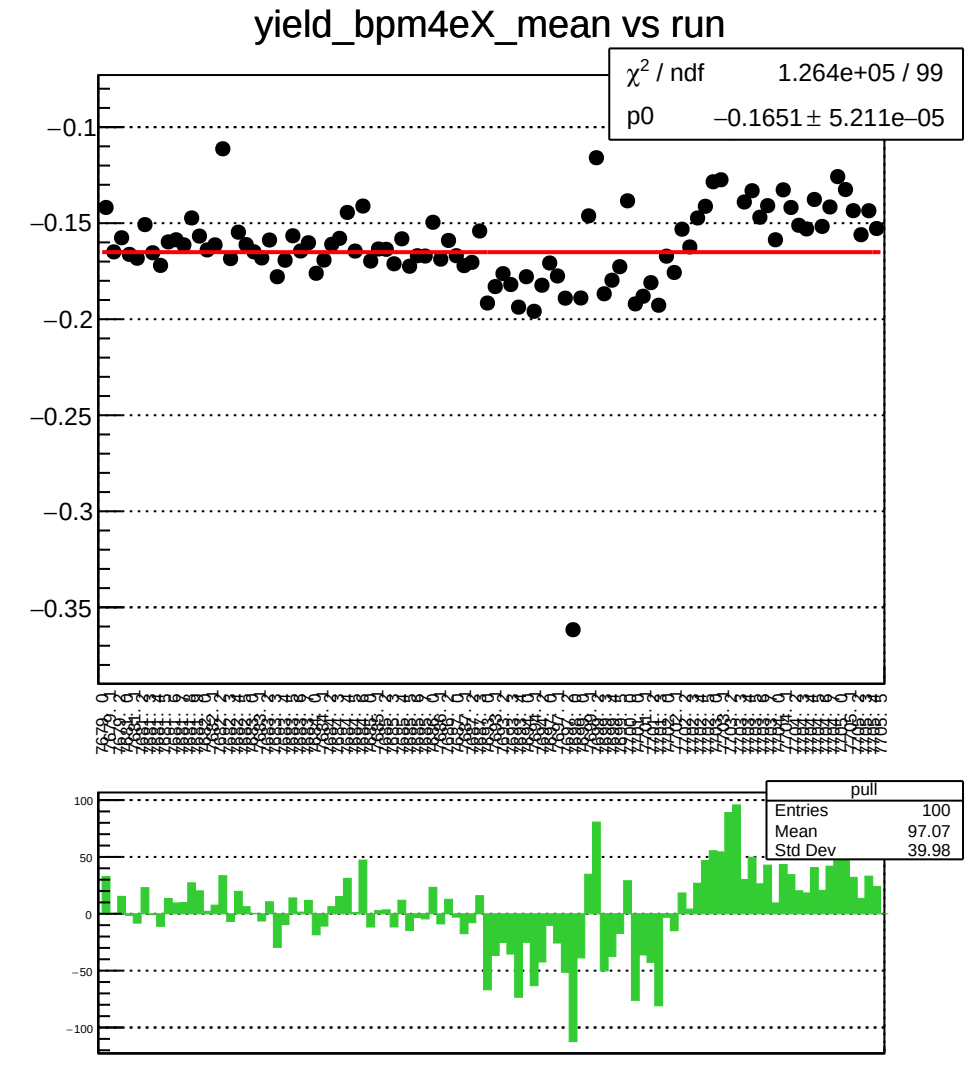

pull1D
Entries 100
Mean −0.4923
Std Dev 4.535
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

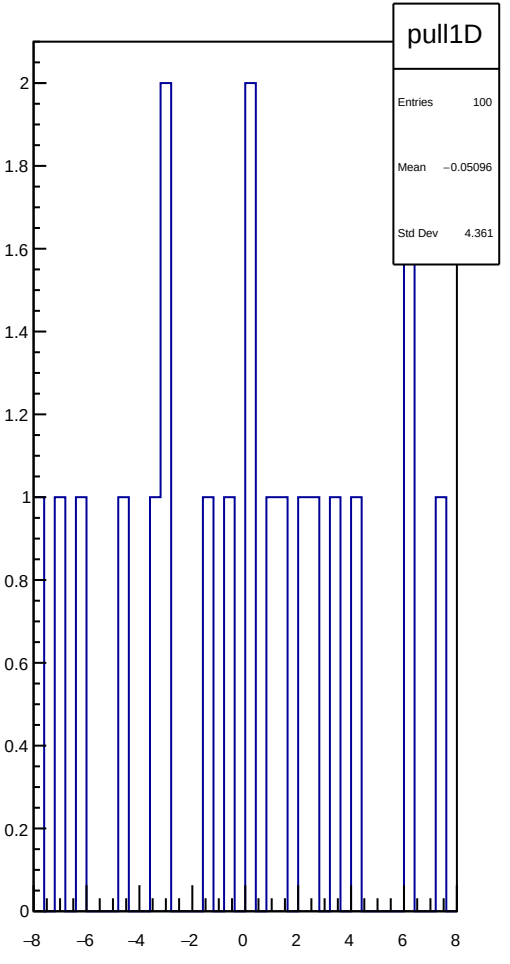

yield_bpm4aX_rms vs run
χ² / ndf 1.249e+05 / 99
p0 0.04921 ± 3.668e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04

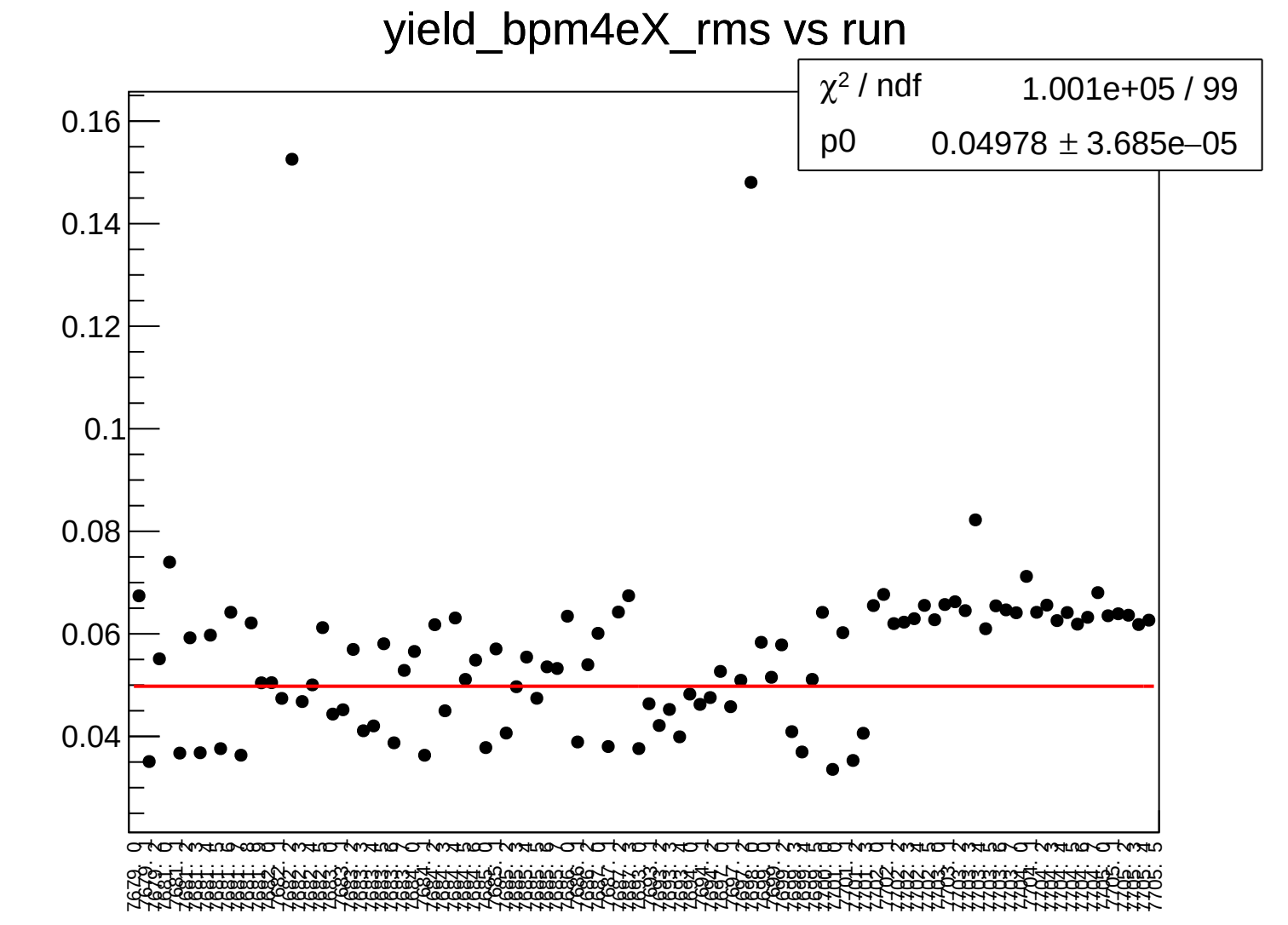

yield_bpm4aY_mean vs run
χ² / ndf 1.96e+05 / 99
p0 0.4843 ± 2.063e−05
0.52
0.51
0.5
0.49
0.48
0.47
0.46
pull
Entries 100
Mean −175.4
Std Dev 0
150
100
50
0
−50
−100

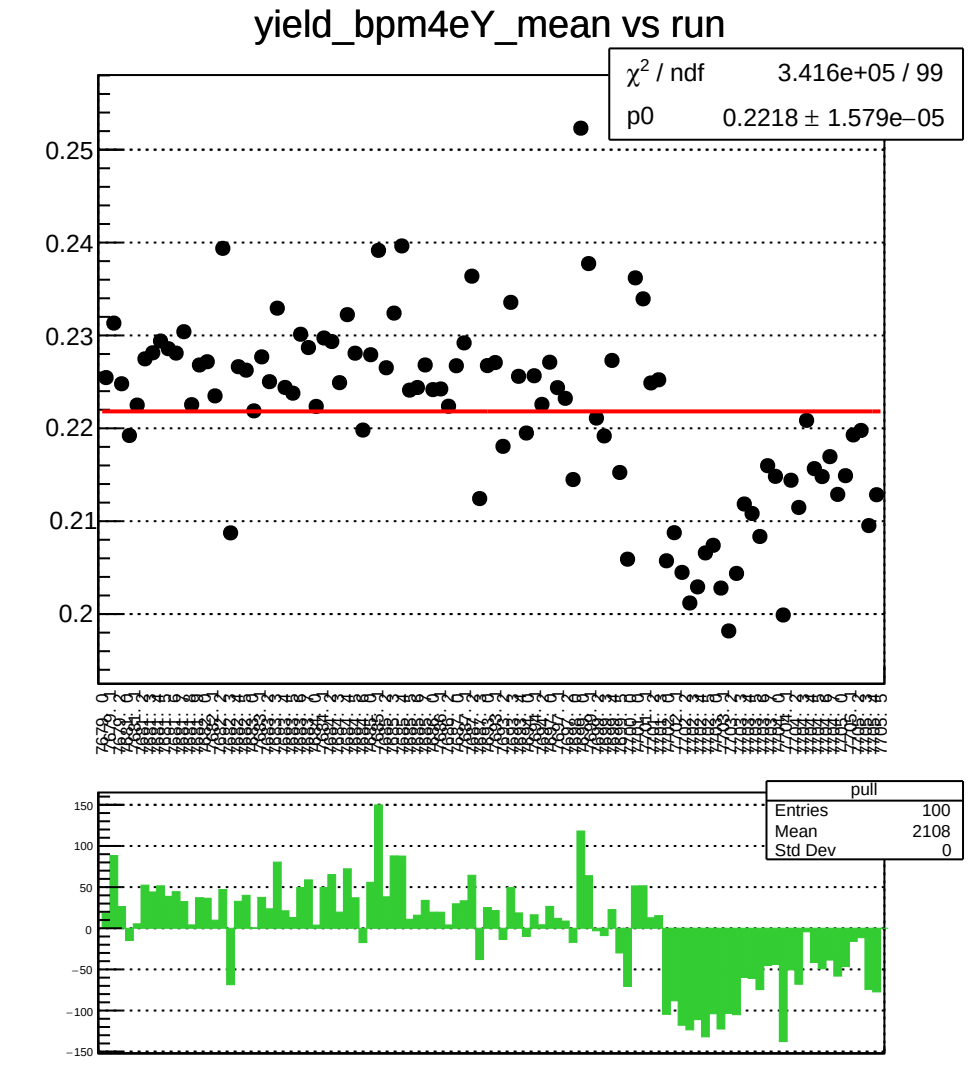

pull1D
Entries 100
Mean 3.011
Std Dev 3.479
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

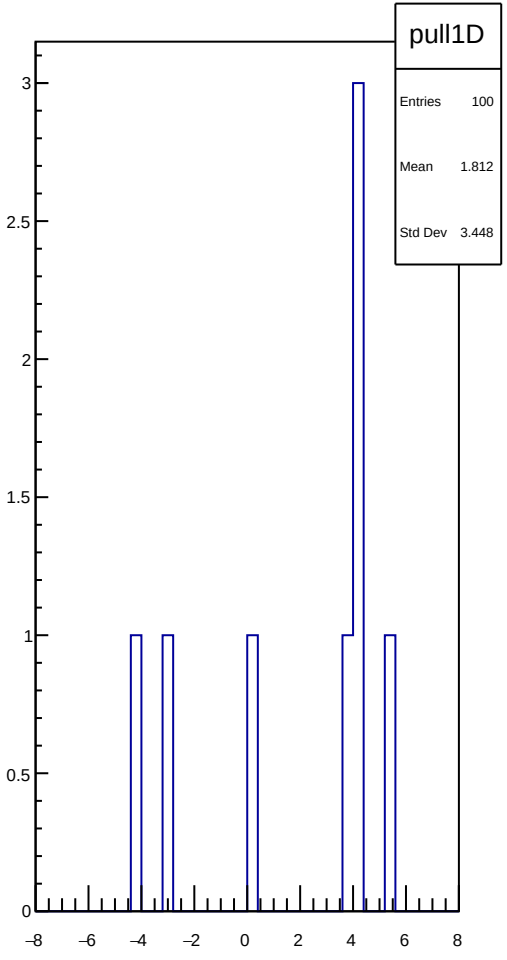

yield_bpm4aY_rms vs run
χ² / ndf 1.495e+05 / 99
p0 0.01944 ± 1.459e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

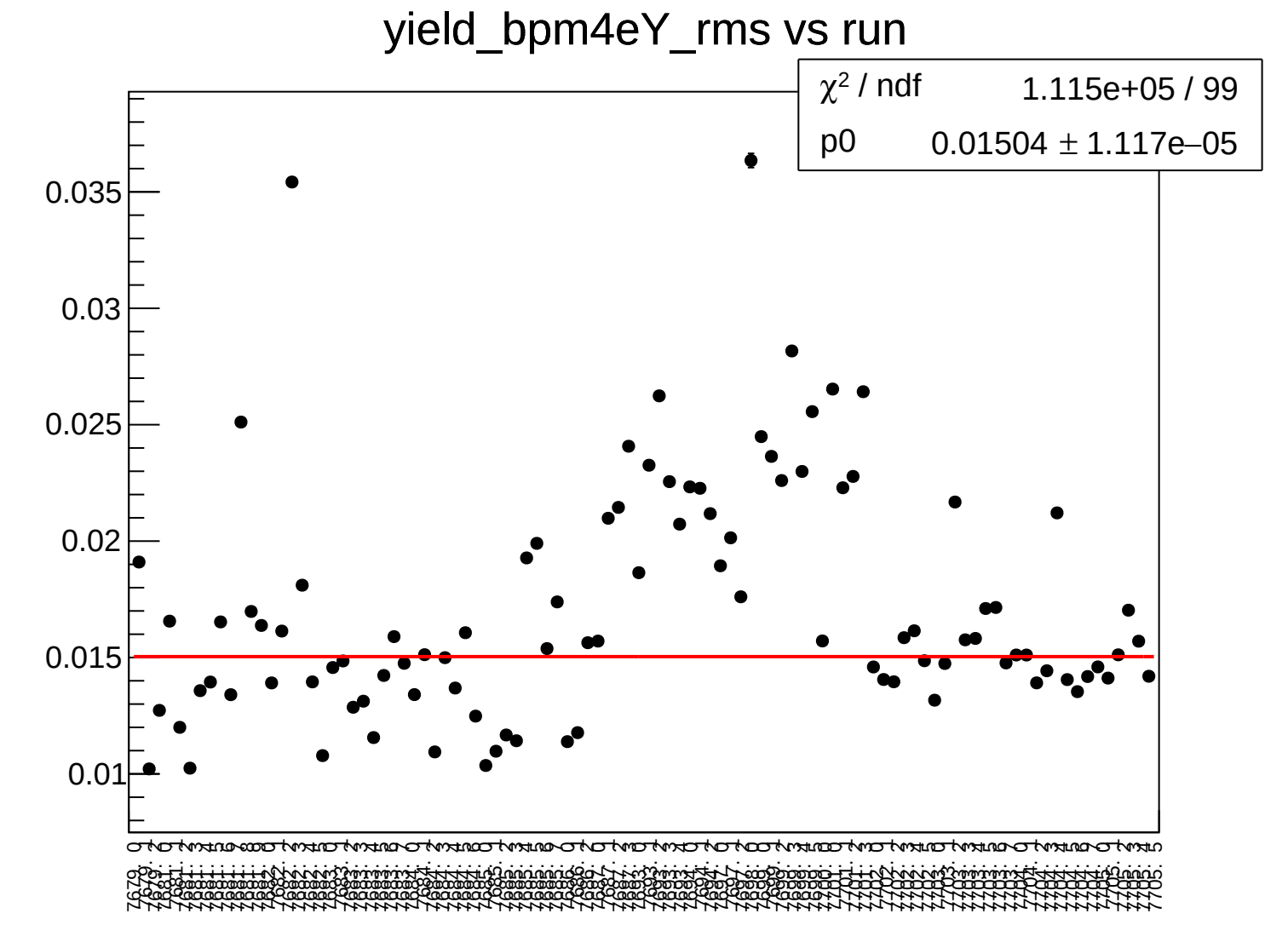

yield_bpm4eX_mean vs run
χ² / ndf 1.264e+05 / 99
p0 −0.1651 ± 5.211e−05
−0.1
−0.15
−0.2
−0.25
−0.3
−0.35
pull
Entries 100
Mean 97.07
Std Dev 39.98
100
50
0
−50
−100

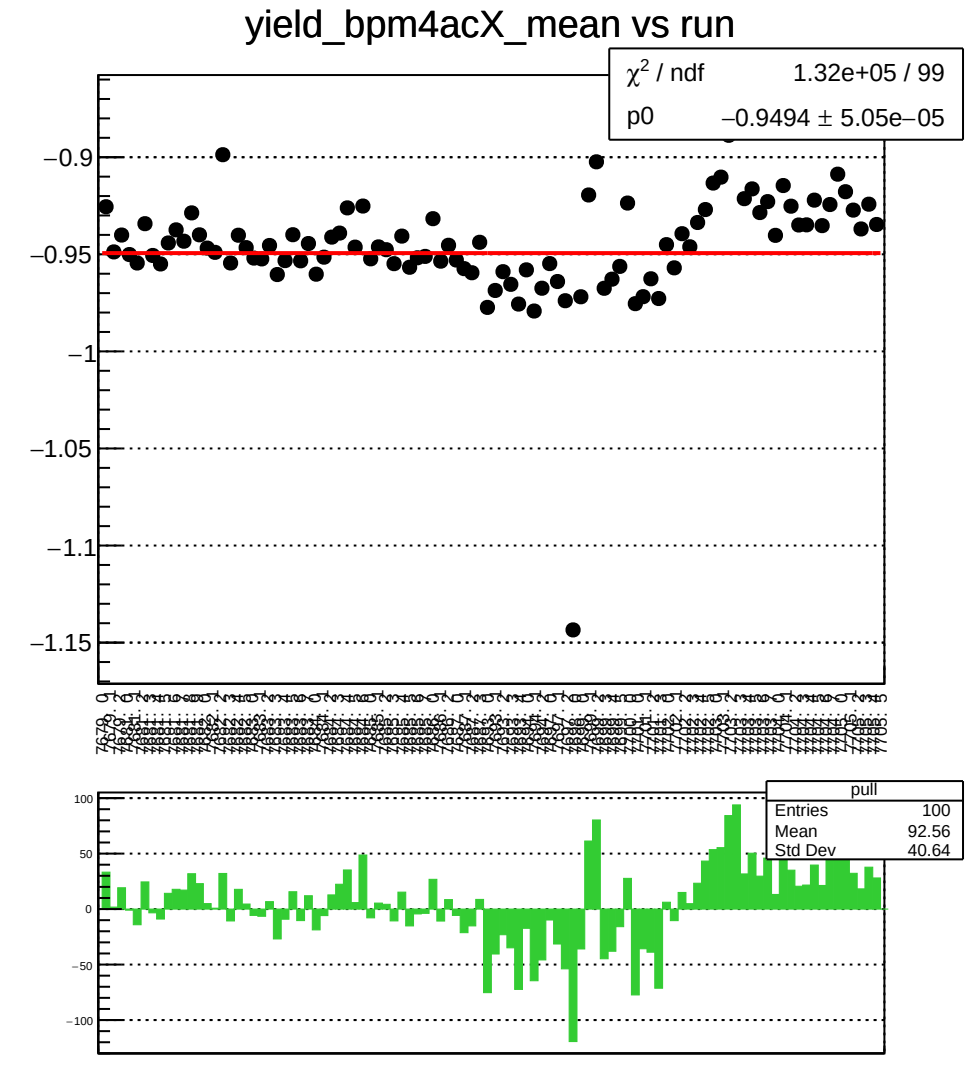

pull1D
Entries 100
Mean −0.05096
Std Dev 4.361
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

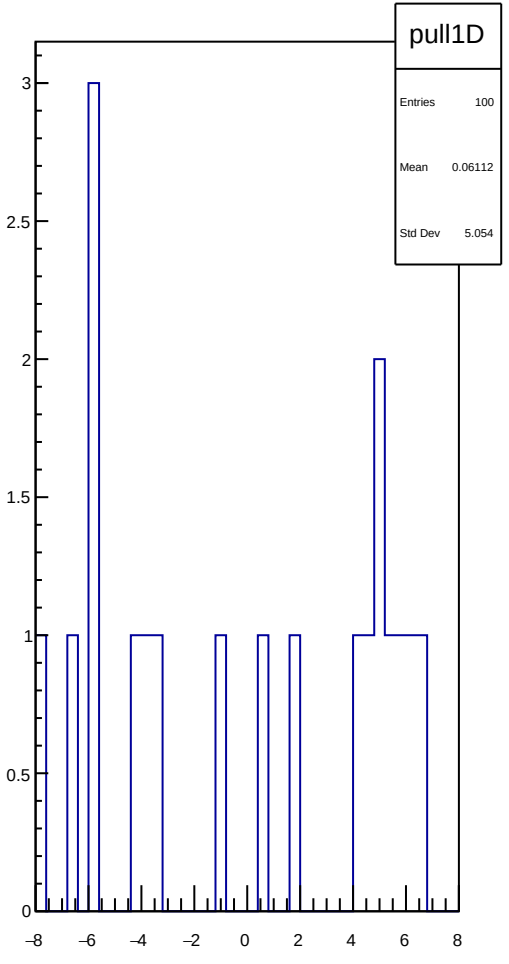

yield_bpm4eX_rms vs run
χ² / ndf 1.001e+05 / 99
p0 0.04978 ± 3.685e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04

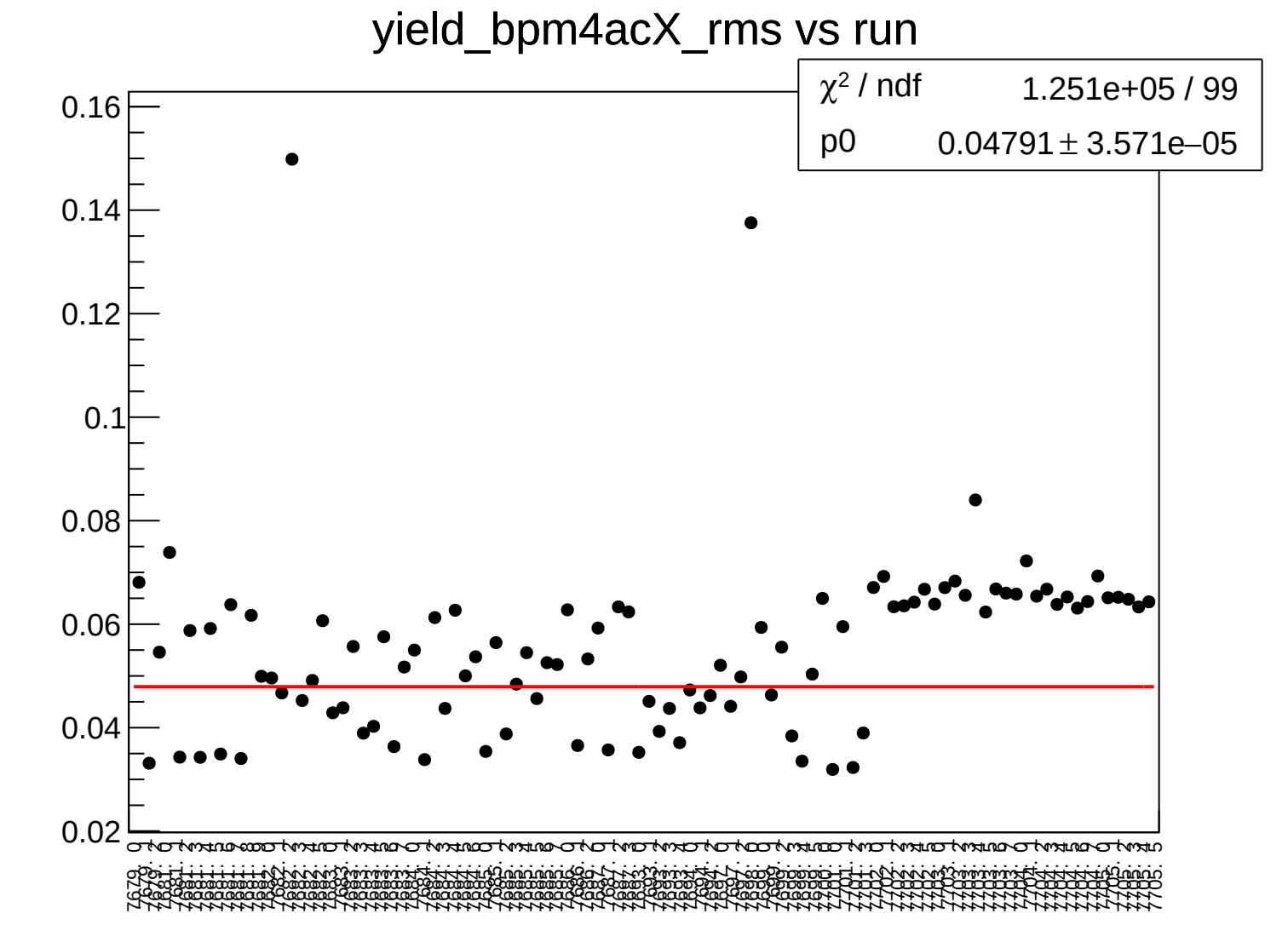

yield_bpm4eY_mean vs run
χ² / ndf 3.416e+05 / 99
p0 0.2218 ± 1.579e−05
0.25
0.24
0.23
0.22
0.21
0.2
pull
Entries 100
Mean 2108
Std Dev 0
150
100
50
0
−50
−100
−150

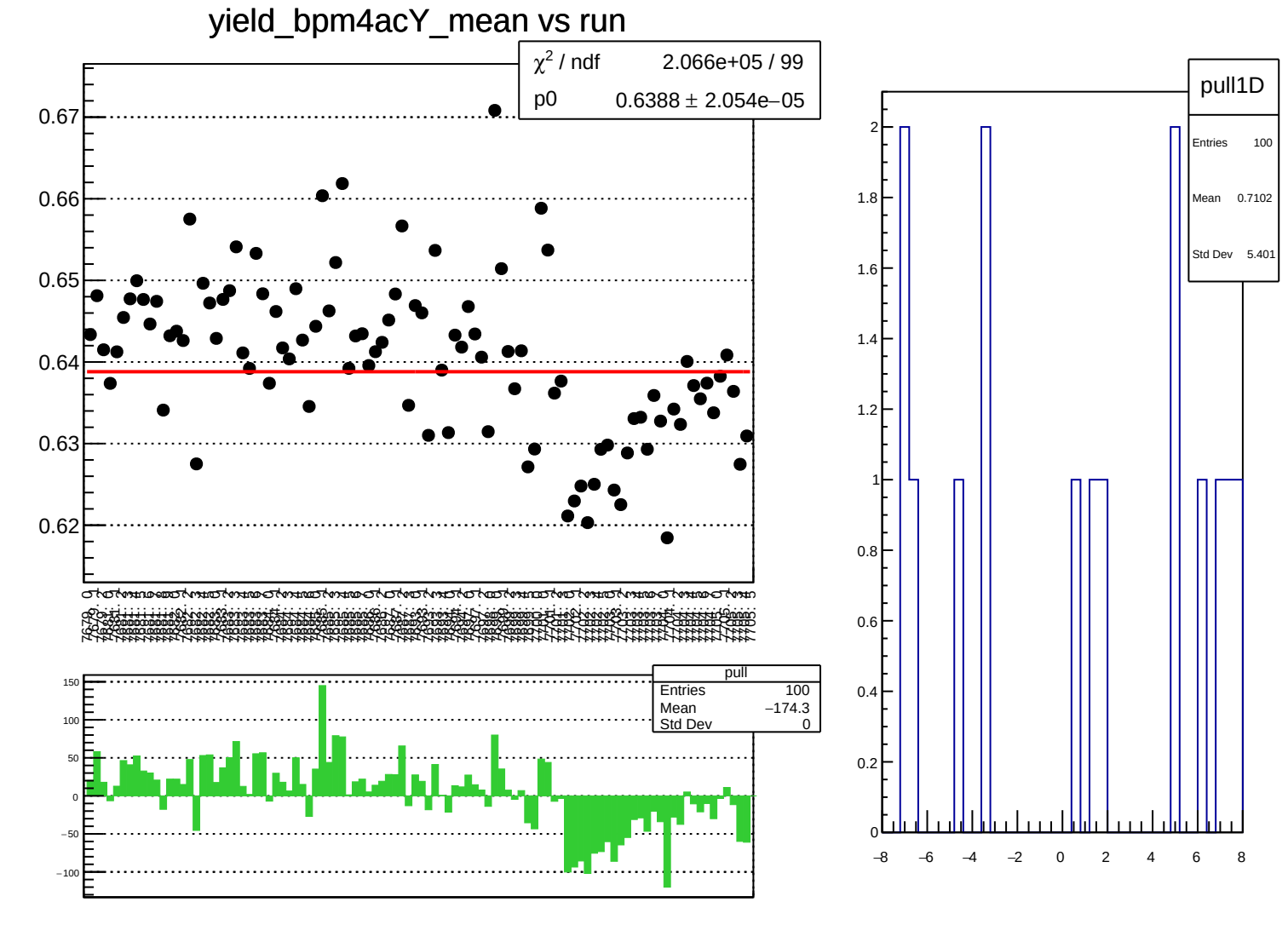

pull1D
Entries 100
Mean 1.812
Std Dev 3.448
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

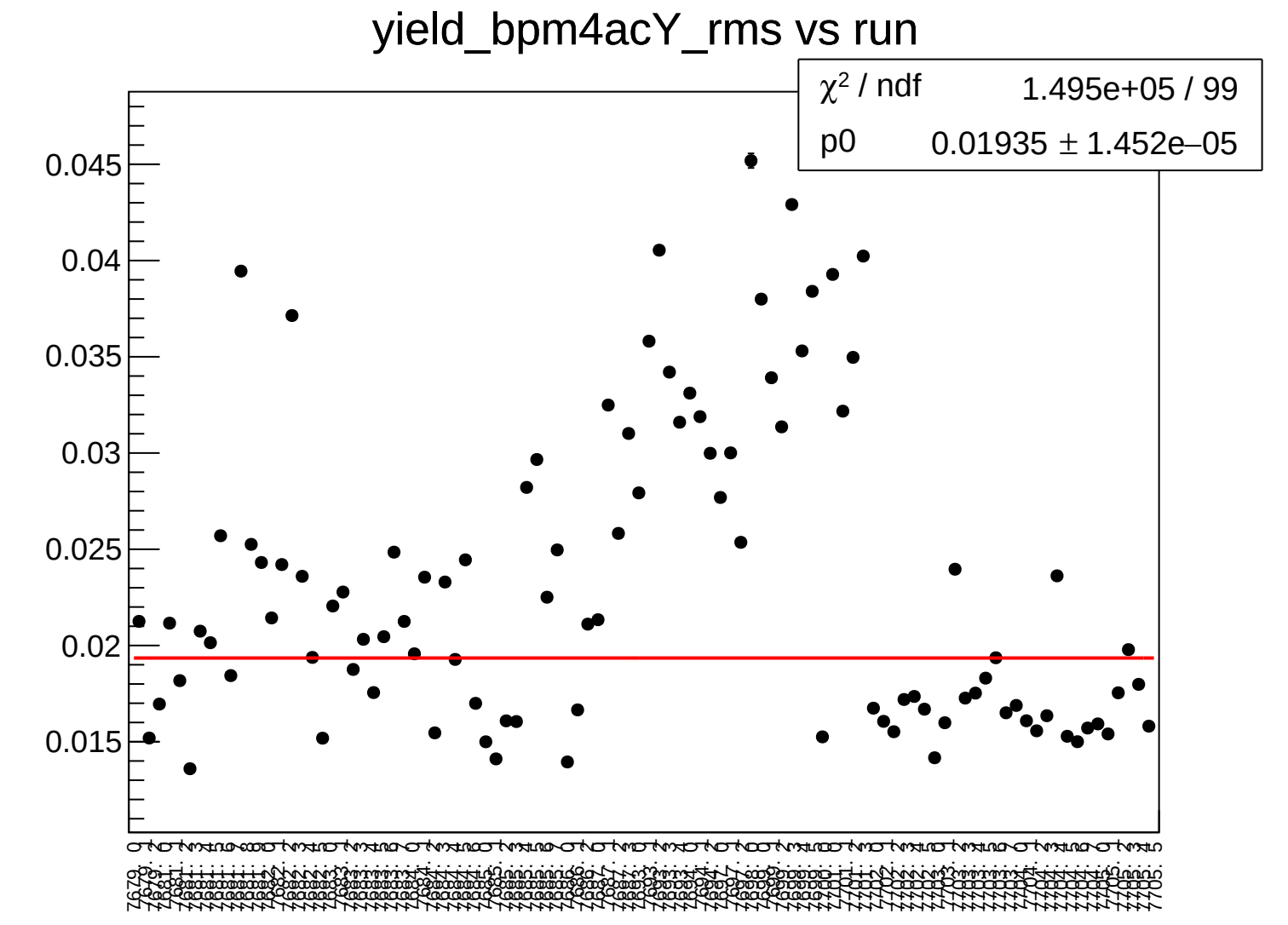

yield_bpm4eY_rms vs run
χ² / ndf 1.115e+05 / 99
p0 0.01504 ± 1.117e−05
0.035
0.03
0.025
0.02
0.015
0.01

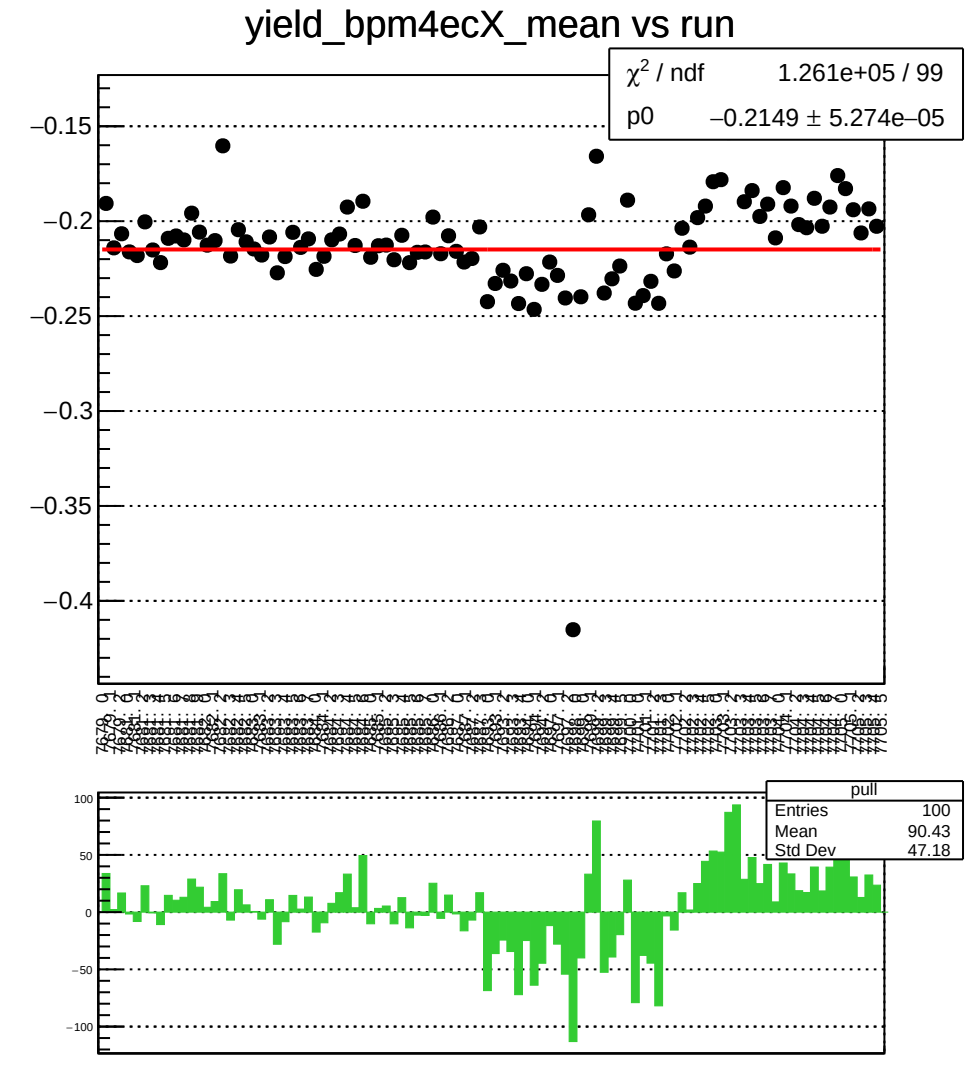

yield_bpm4acX_mean vs run
χ² / ndf 1.32e+05 / 99
p0 −0.9494 ± 5.05e−05
−0.9
−0.95
−1
−1.05
−1.1
−1.15
pull
Entries 100
Mean 92.56
Std Dev 40.64
100
50
0
−50
−100

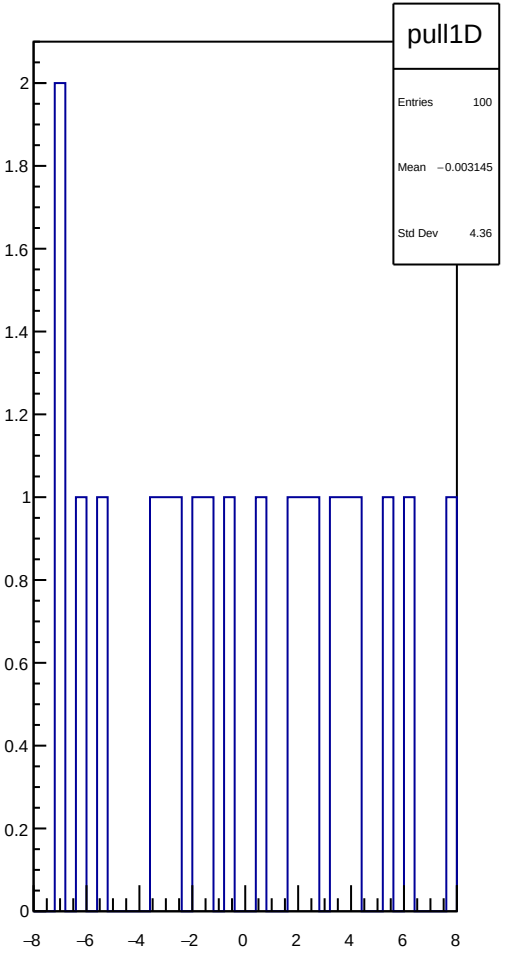

pull1D
Entries 100
Mean 0.06112
Std Dev 5.054
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

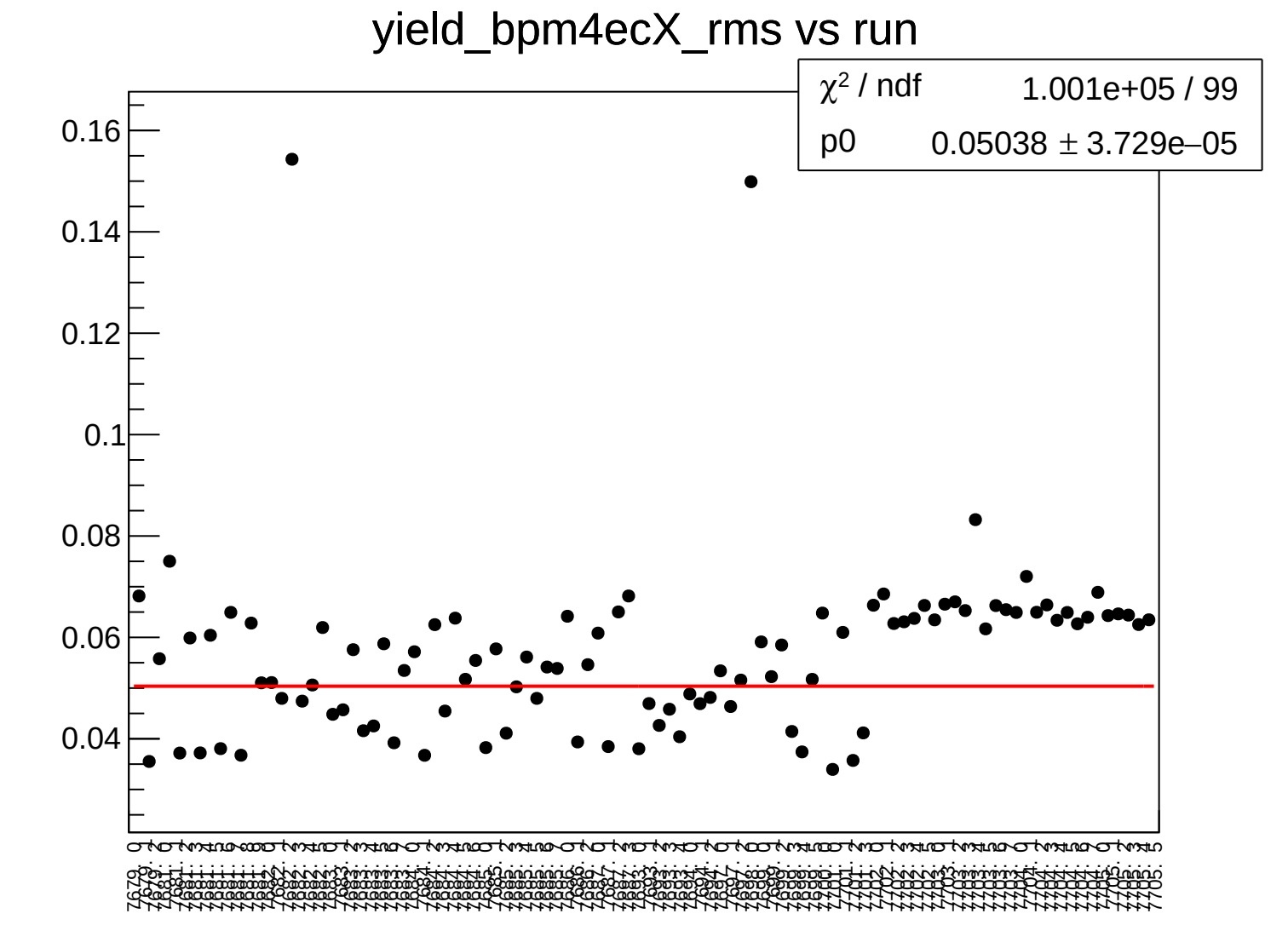

yield_bpm4acX_rms vs run
χ² / ndf 1.251e+05 / 99
p0 0.04791 ± 3.571e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

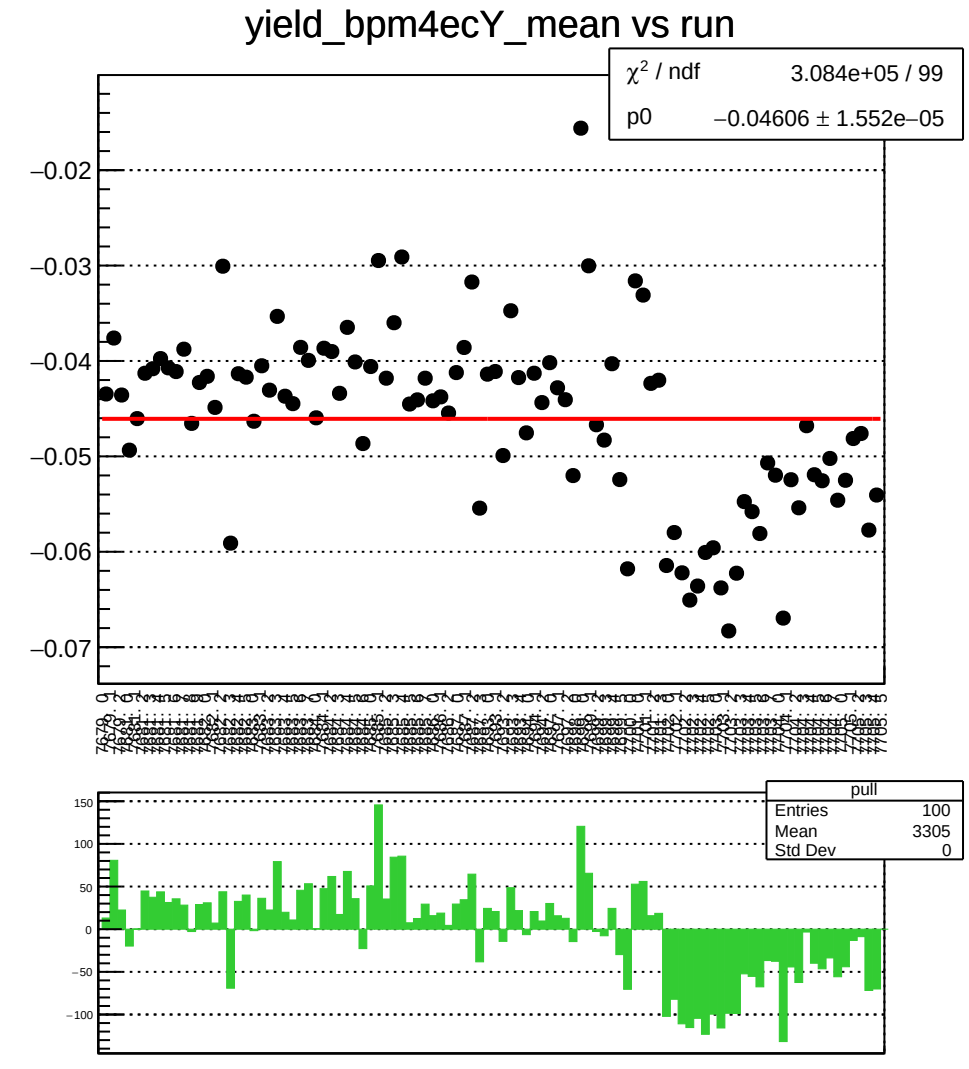

yield_bpm4acY_mean vs run
χ² / ndf 2.066e+05 / 99
p0 0.6388 ± 2.054e−05
0.67
0.66
0.65
0.64
0.63
0.62
pull
Entries 100
Mean −174.3
Std Dev 0
150
100
50
0
−50
−100
pull1D
Entries 100
Mean 0.7102
Std Dev 5.401
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

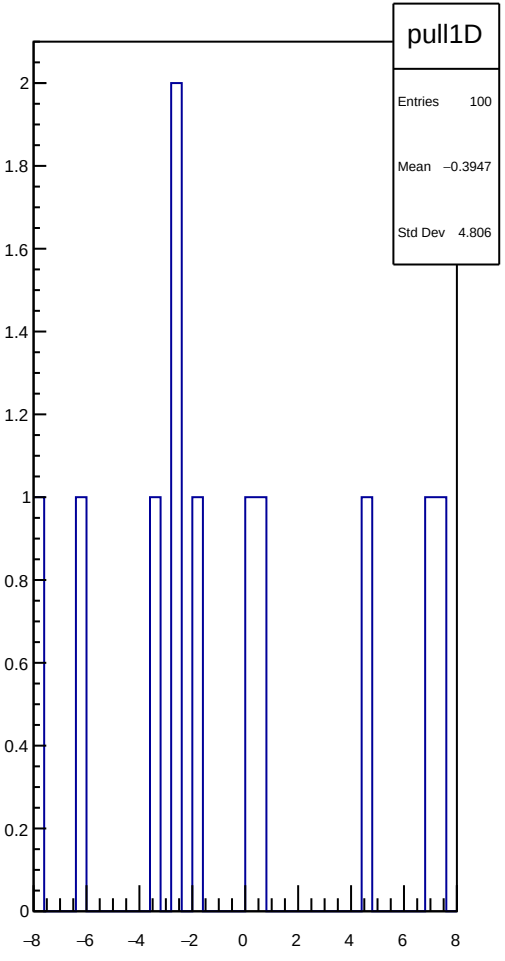

yield_bpm4acY_rms vs run
χ² / ndf 1.495e+05 / 99
p0 0.01935 ± 1.452e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

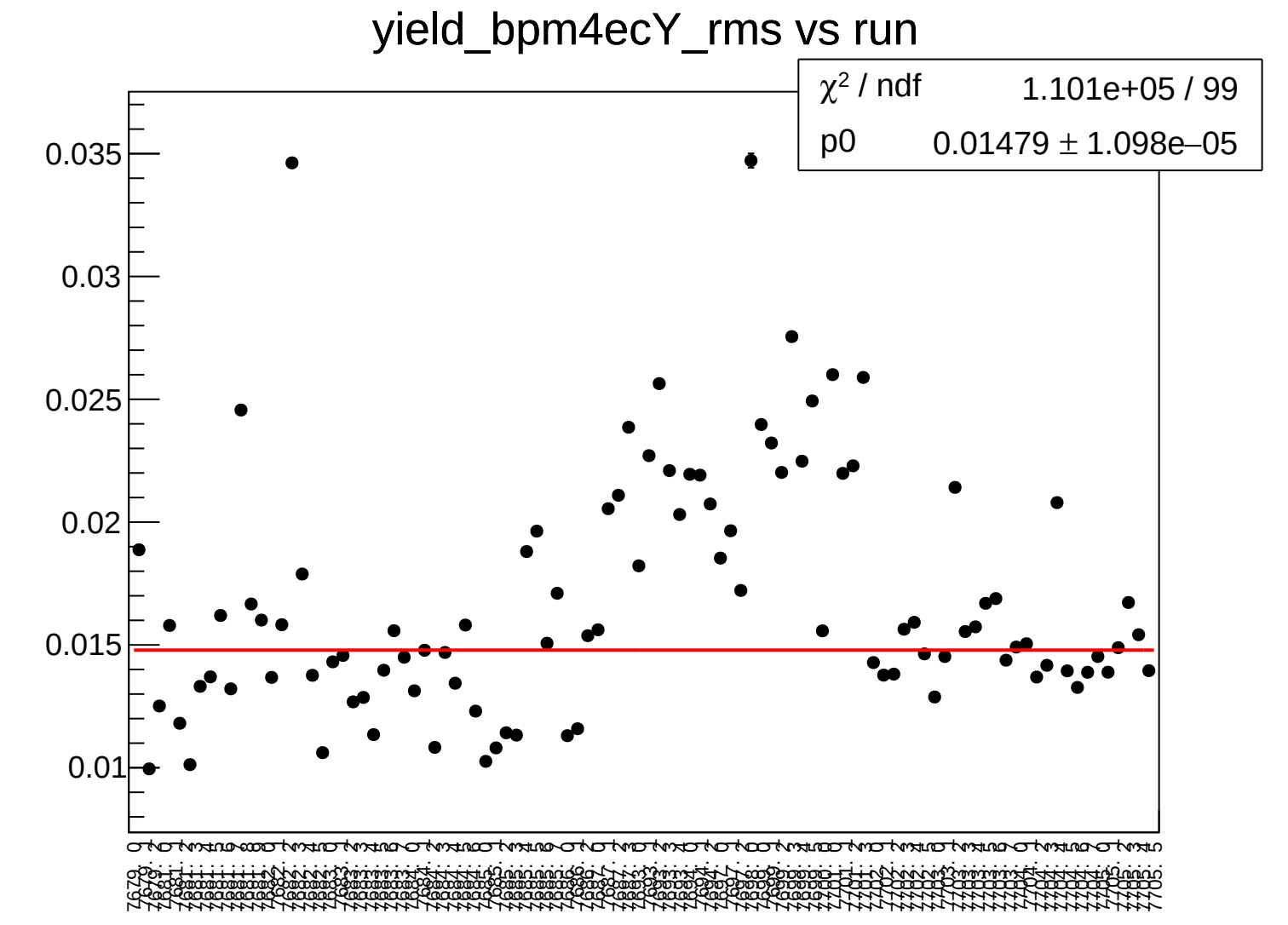

yield_bpm4ecX_mean vs run
χ² / ndf 1.261e+05 / 99
p0 −0.2149 ± 5.274e−05
−0.15
−0.2
−0.25
−0.3
−0.35
−0.4
pull
Entries 100
Mean 90.43
Std Dev 47.18
100
50
0
−50
−100

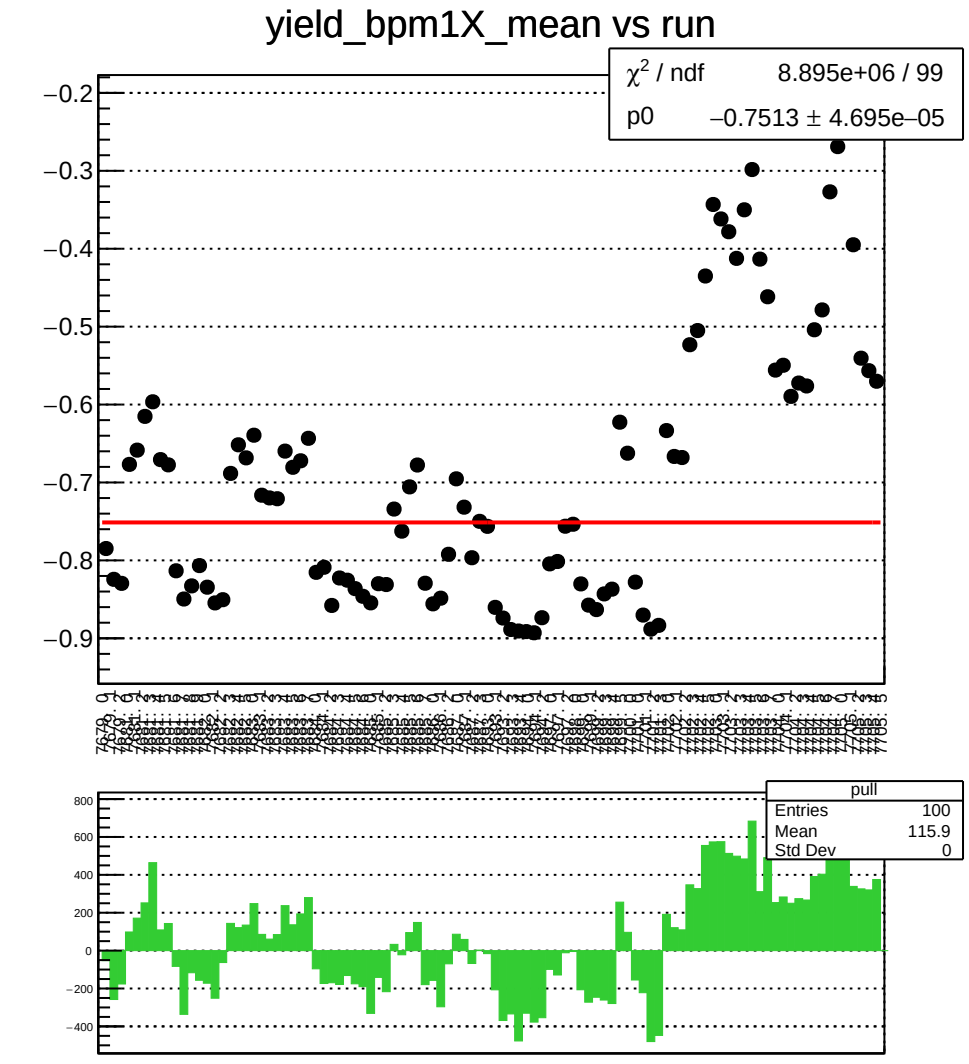

pull1D
Entries 100
Mean −0.003145
Std Dev 4.36
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

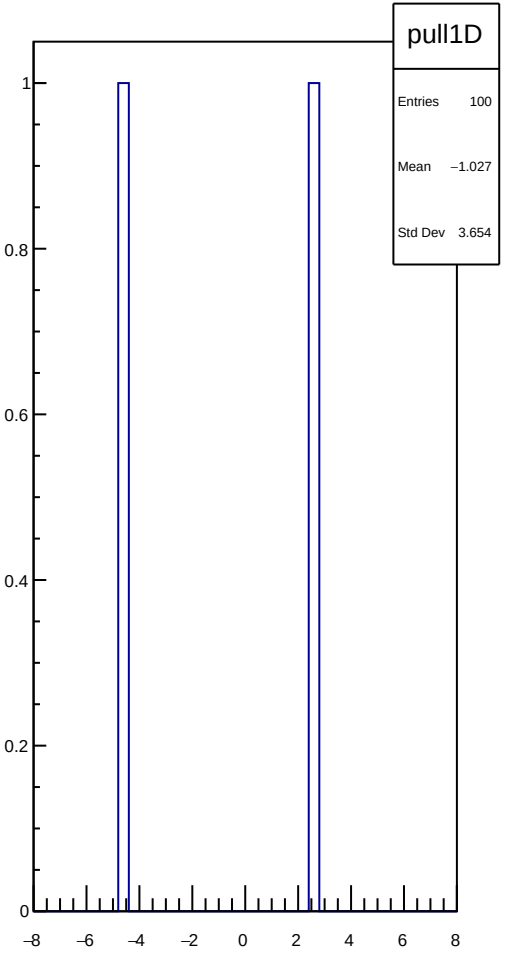

yield_bpm4ecX_rms vs run
χ² / ndf 1.001e+05 / 99
p0 0.05038 ± 3.729e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04

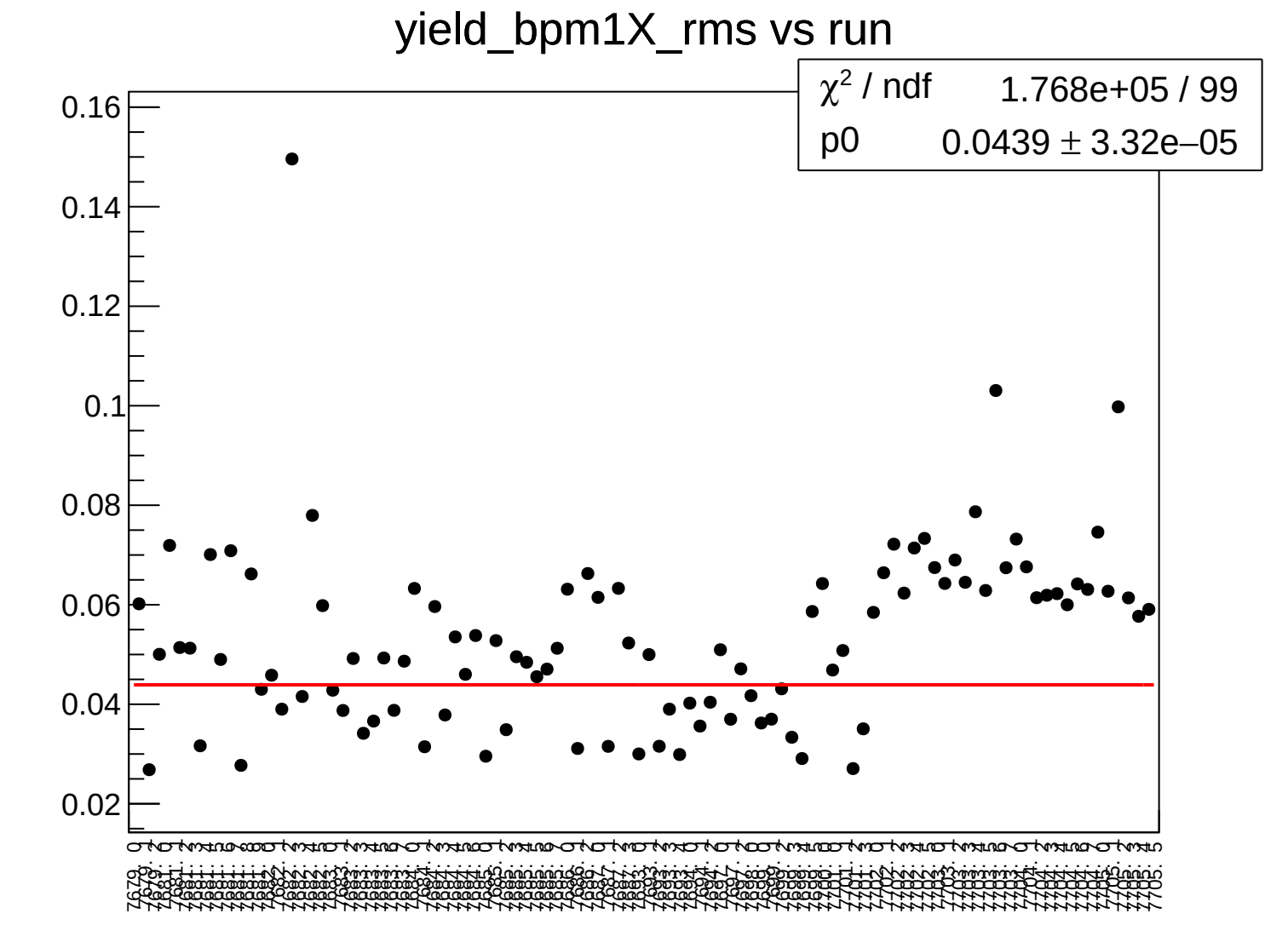

yield_bpm4ecY_mean vs run
χ² / ndf 3.084e+05 / 99
p0 −0.04606 ± 1.552e−05
−0.02
−0.03
−0.04
−0.05
−0.06
−0.07
pull
Entries 100
Mean 3305
Std Dev 0
150
100
50
0
−50
−100

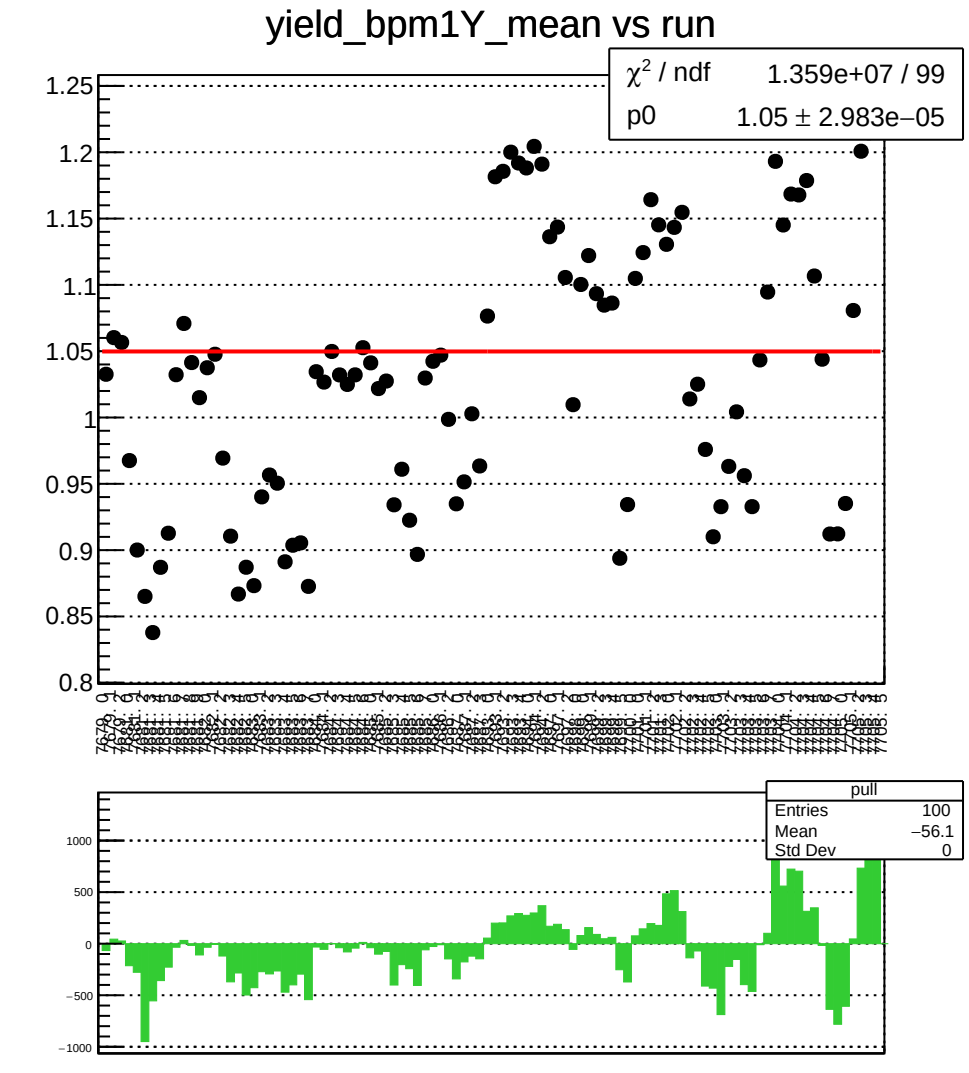

pull1D
Entries 100
Mean −0.3947
Std Dev 4.806
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

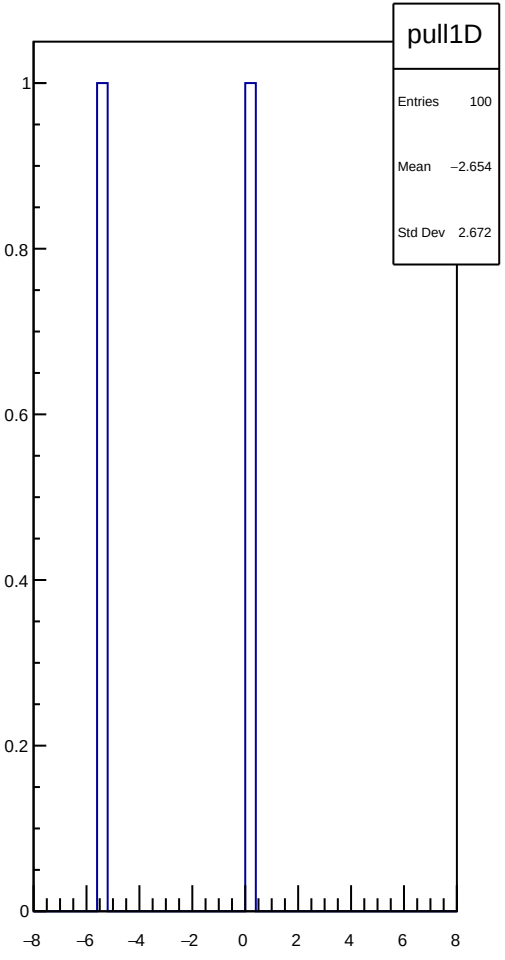

yield_bpm4ecY_rms vs run
χ² / ndf 1.101e+05 / 99
p0 0.01479 ± 1.098e–05
0.035
0.03
0.025
0.02
0.015
0.01

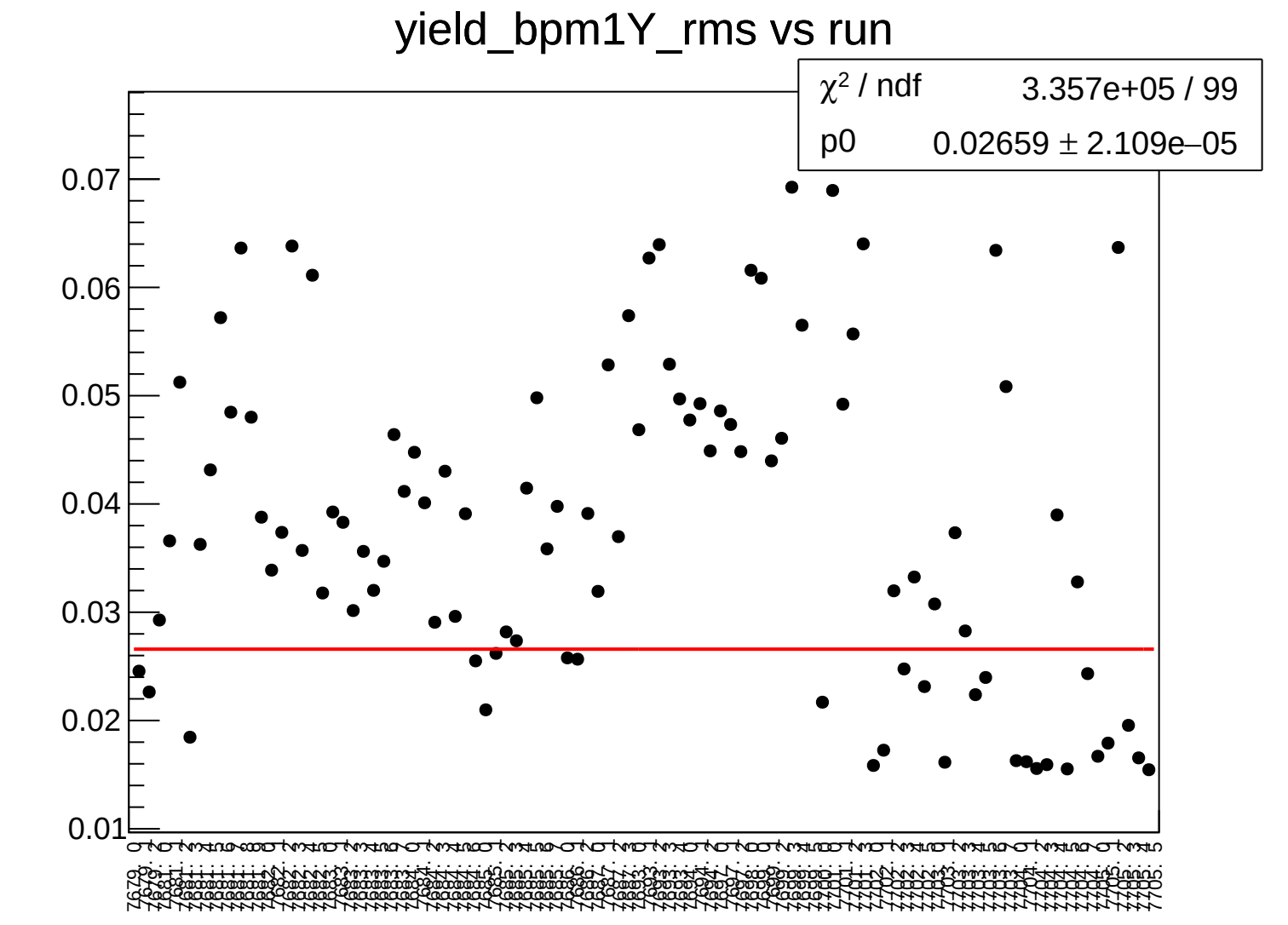

yield_bpm1X_mean vs run
χ² / ndf 8.895e+06 / 99
p0 −0.7513 ± 4.695e−05
pull
Entries 100
Mean 115.9
Std Dev 0

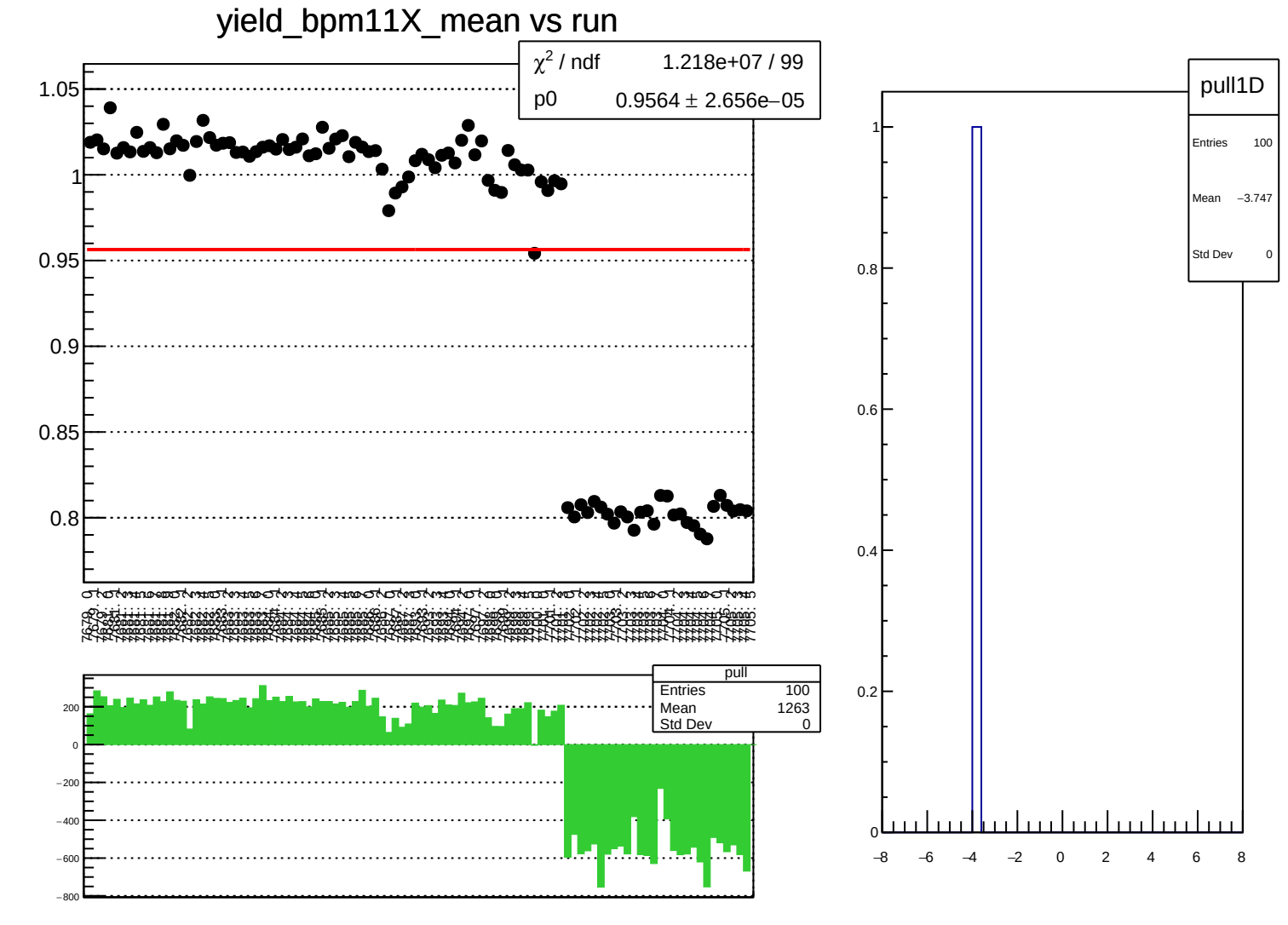

pull1D
Entries 100
Mean −1.027
Std Dev 3.654

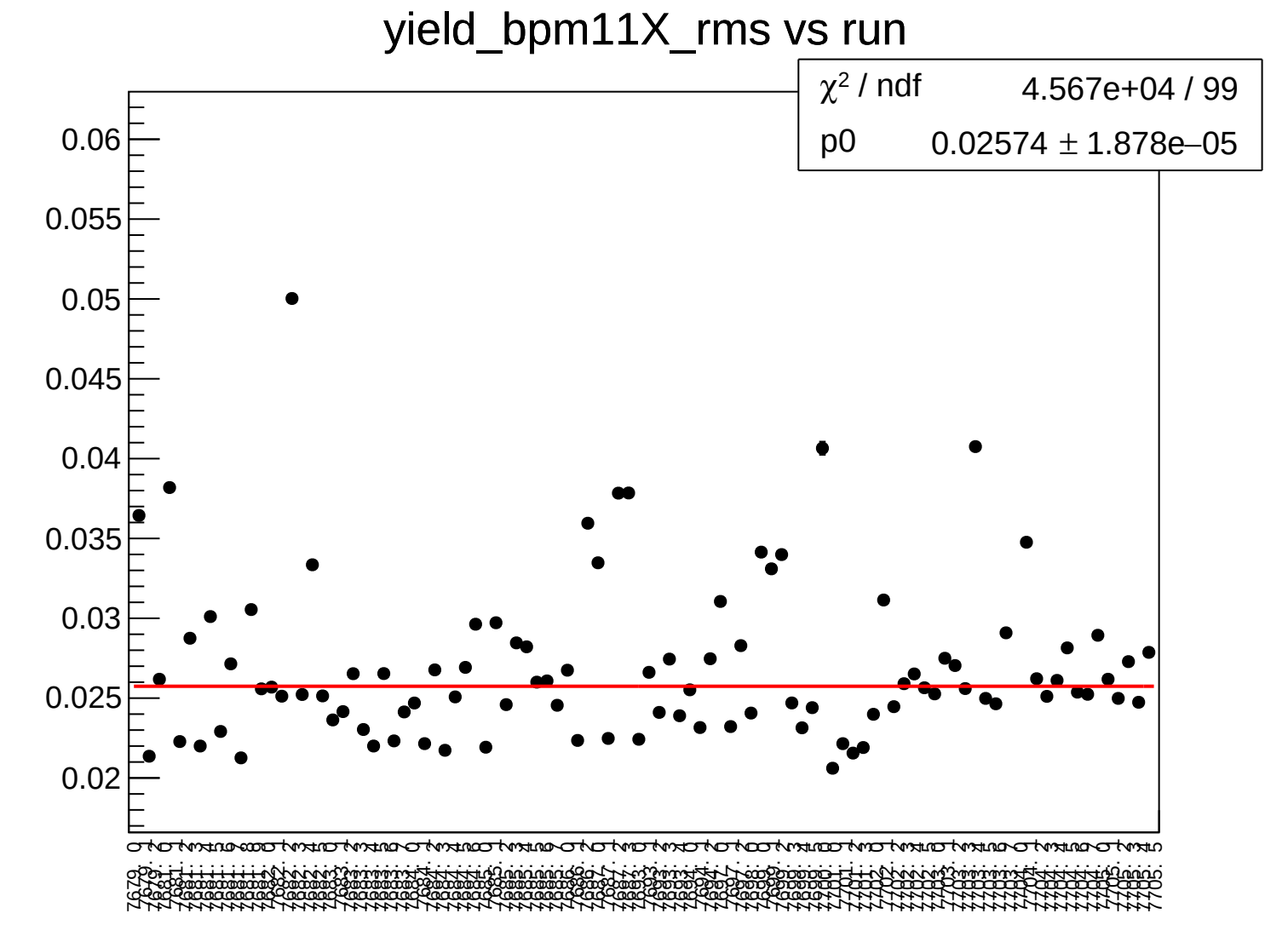

yield_bpm1X_rms vs run
χ^2 / ndf 1.768e+05 / 99
p0 0.0439 ± 3.32e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

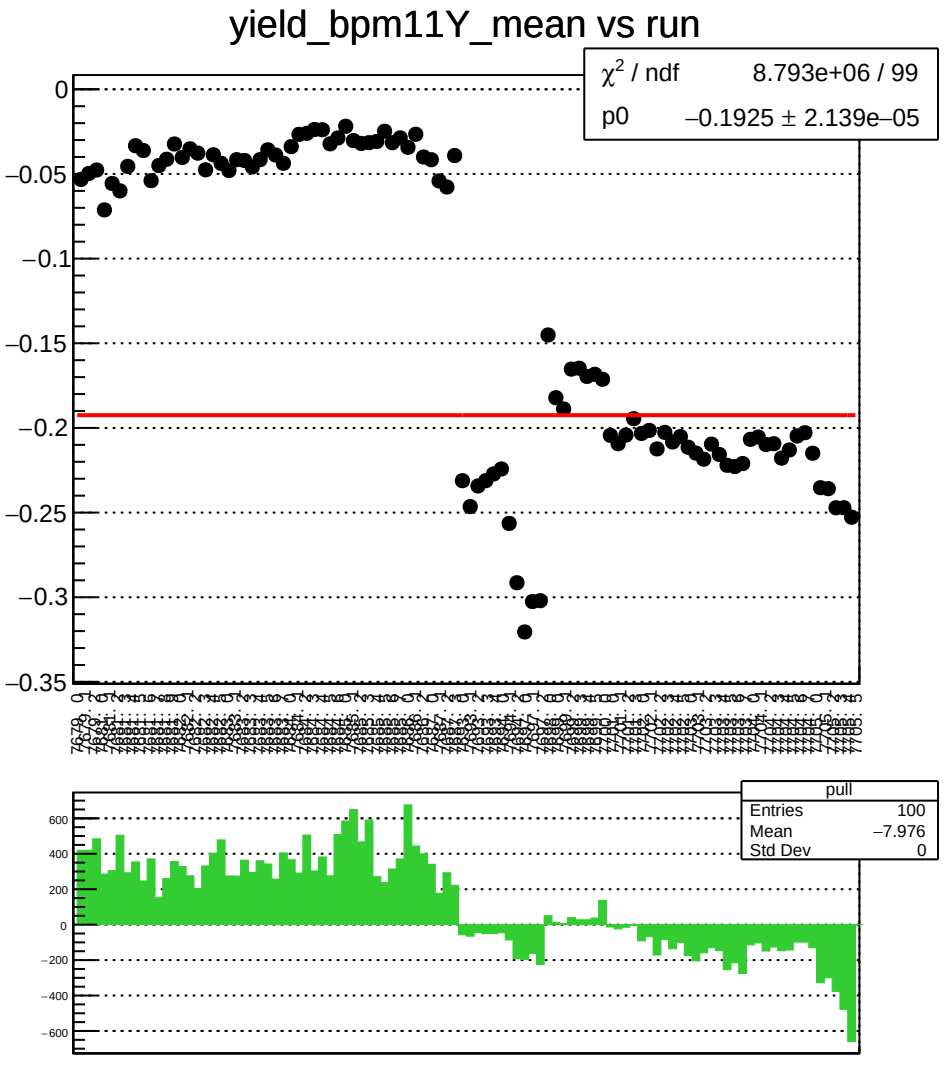

yield_bpm1Y_mean vs run
χ² / ndf 1.359e+07 / 99
p0 1.05 ± 2.983e−05
pull
Entries 100
Mean −56.1
Std Dev 0

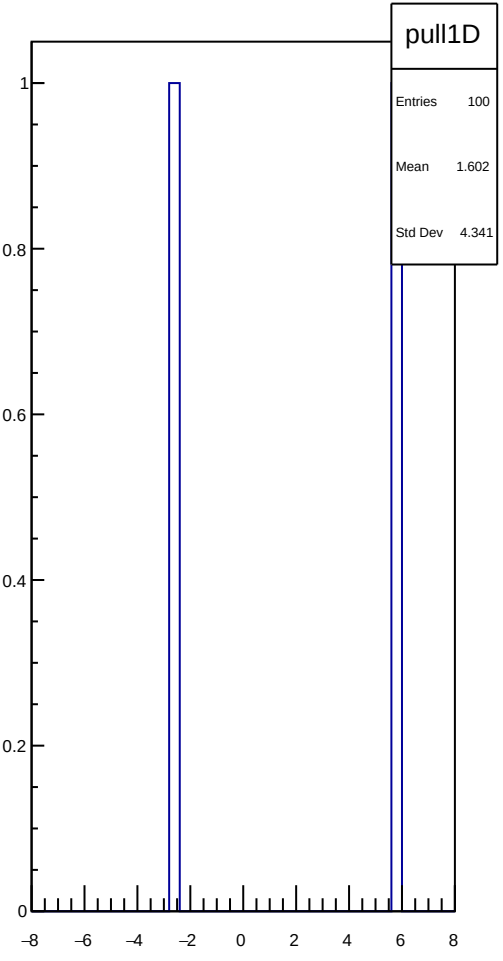

pull1D
Entries 100
Mean −2.654
Std Dev 2.672

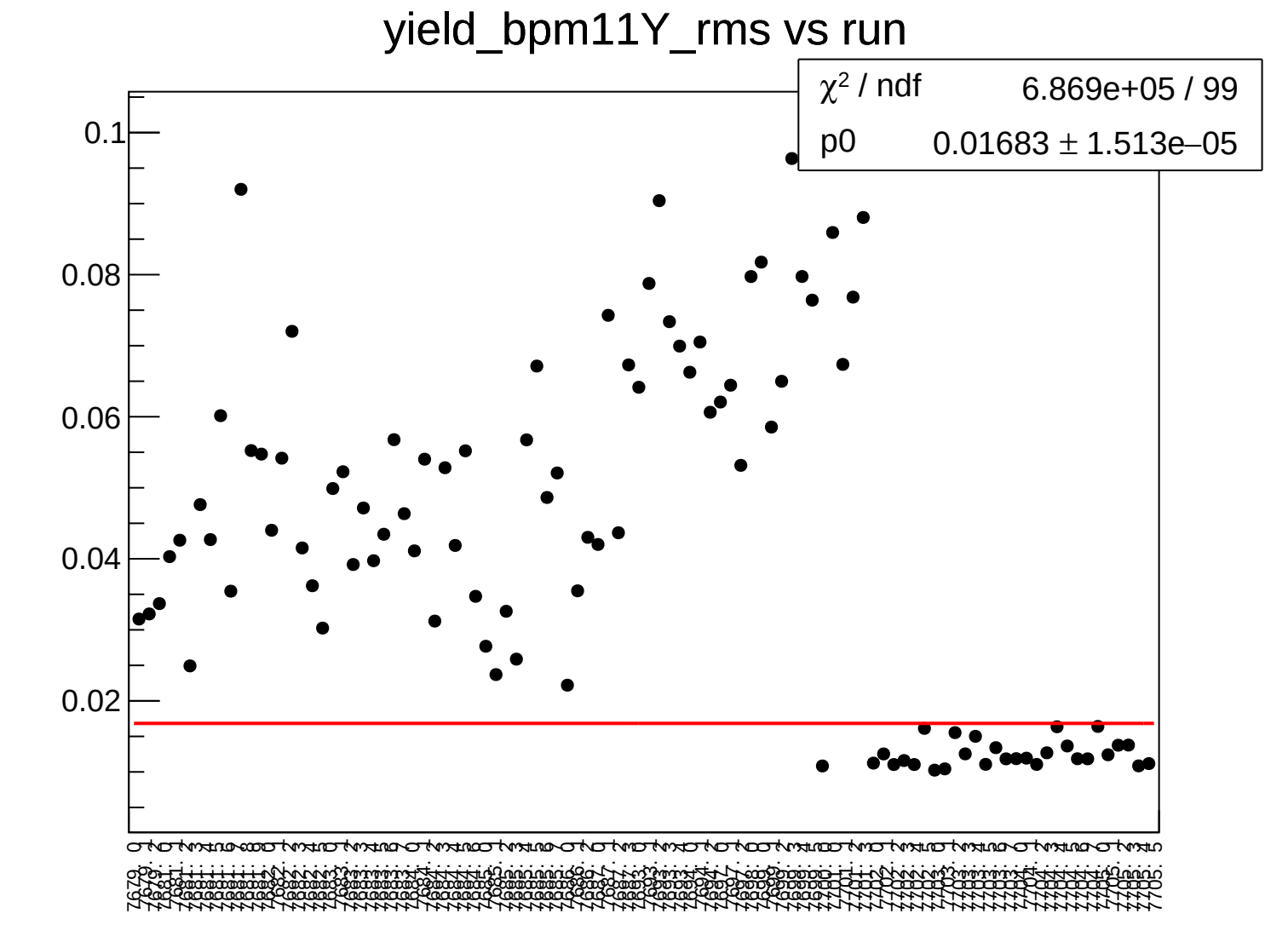

yield_bpm1Y_rms vs run
χ² / ndf 3.357e+05 / 99
p0 0.02659 ± 2.109e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

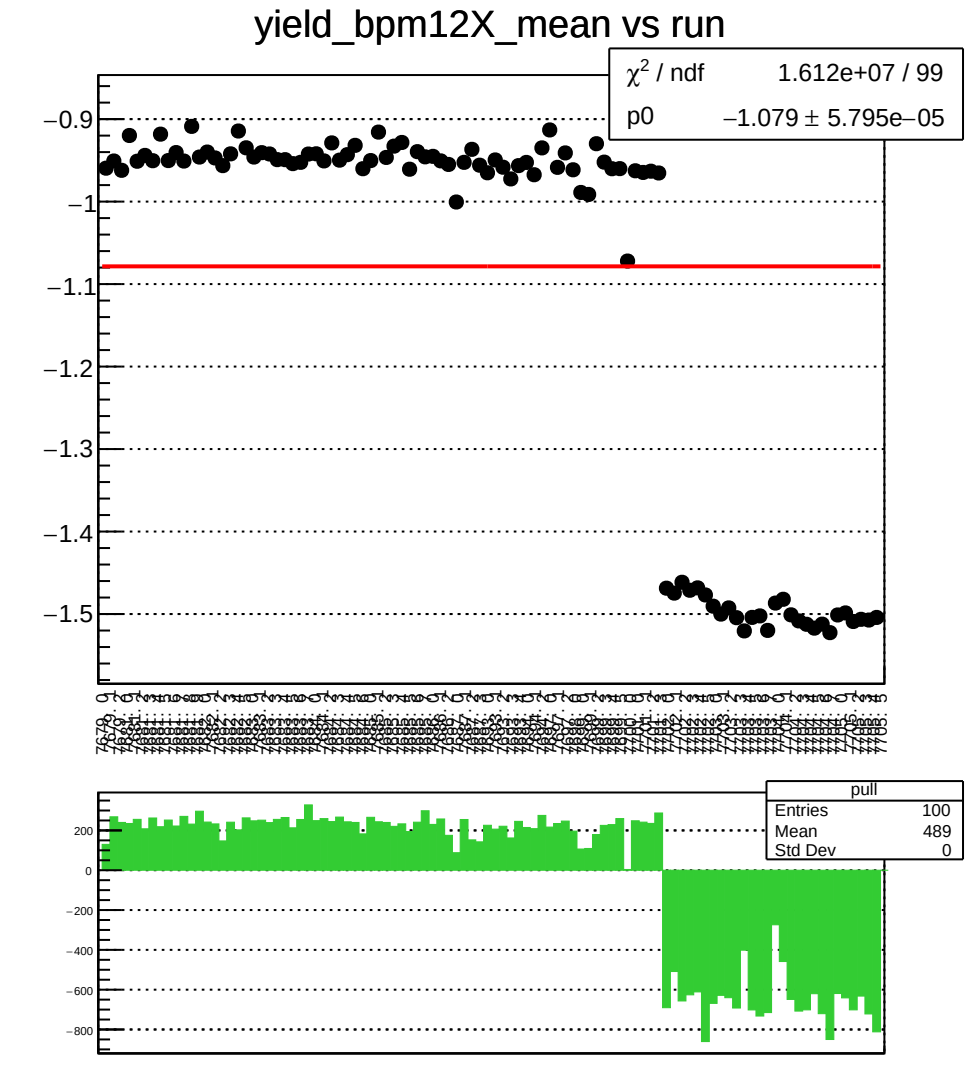

yield_bpm11X_mean vs run
χ² / ndf 1.218e+07 / 99
p0 0.9564 ± 2.656e−05
1.05
1
0.95
0.9
0.85
0.8
pull
Entries 100
Mean 1263
Std Dev 0
200
0
−200
−400
−600
−800
pull1D
Entries 100
Mean −3.747
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

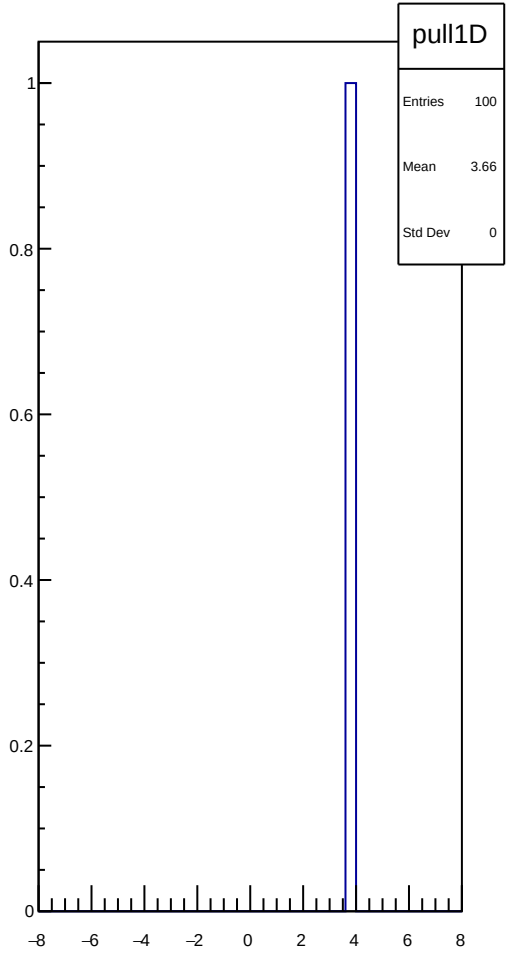

yield_bpm11X_rms vs run
χ² / ndf 4.567e+04 / 99
p0 0.02574 ± 1.878e–05
0.06
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02

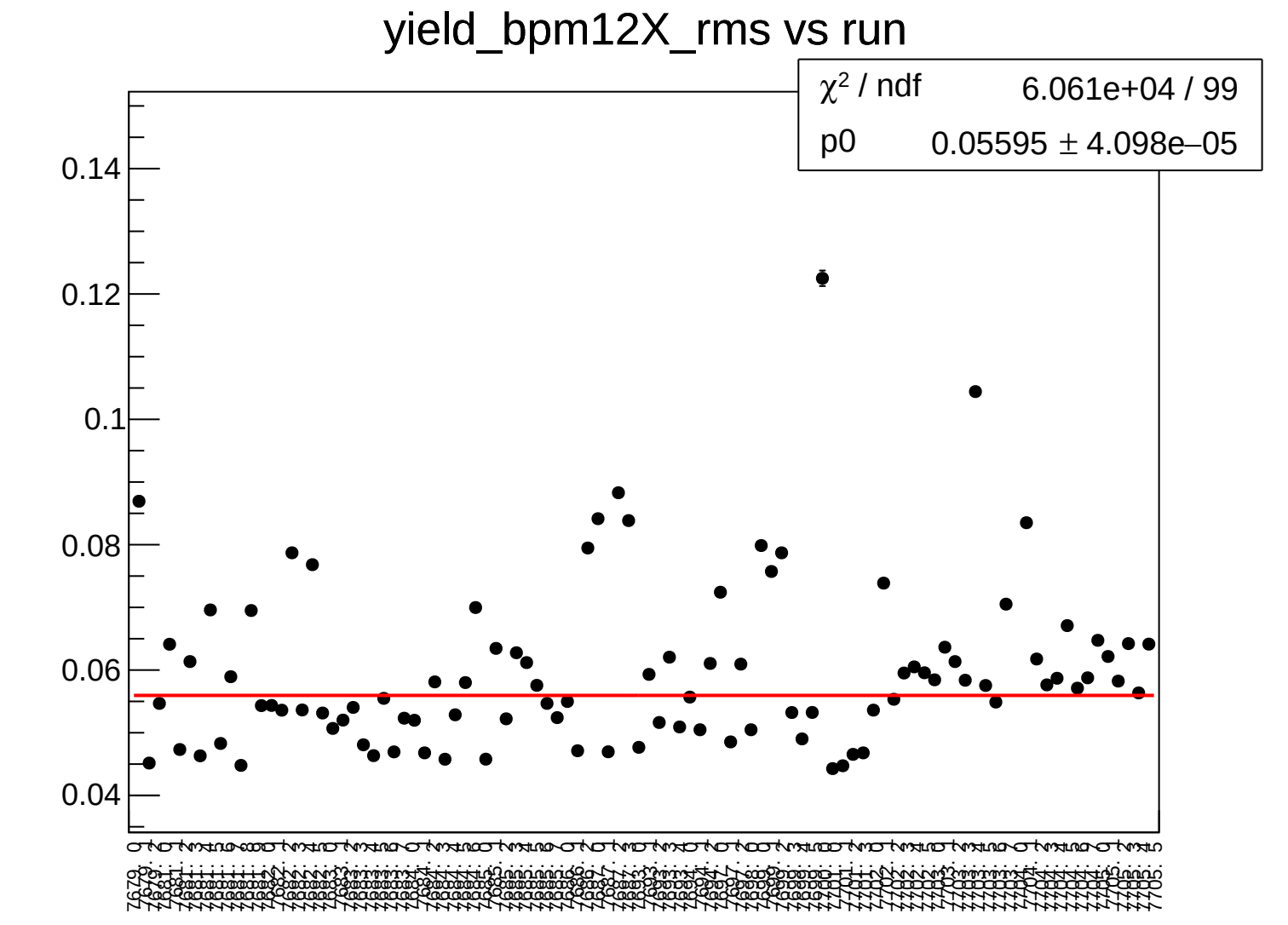

yield_bpm11Y_mean vs run
χ² / ndf 8.793e+06 / 99
p0 −0.1925 ± 2.139e−05
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
−0.35
pull
Entries 100
Mean −7.976
Std Dev 0
600
400
200
0
−200
−400
−600

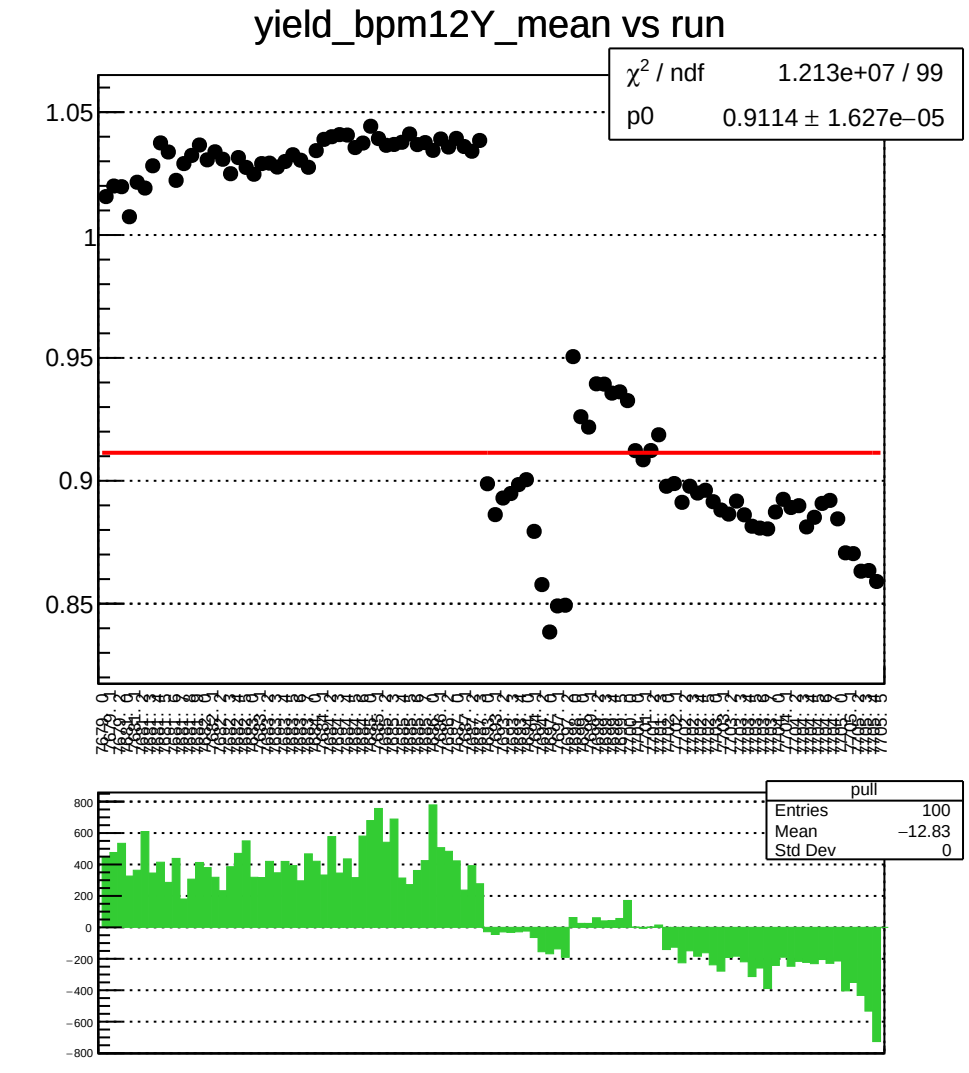

pull1D
Entries 100
Mean 1.602
Std Dev 4.341
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

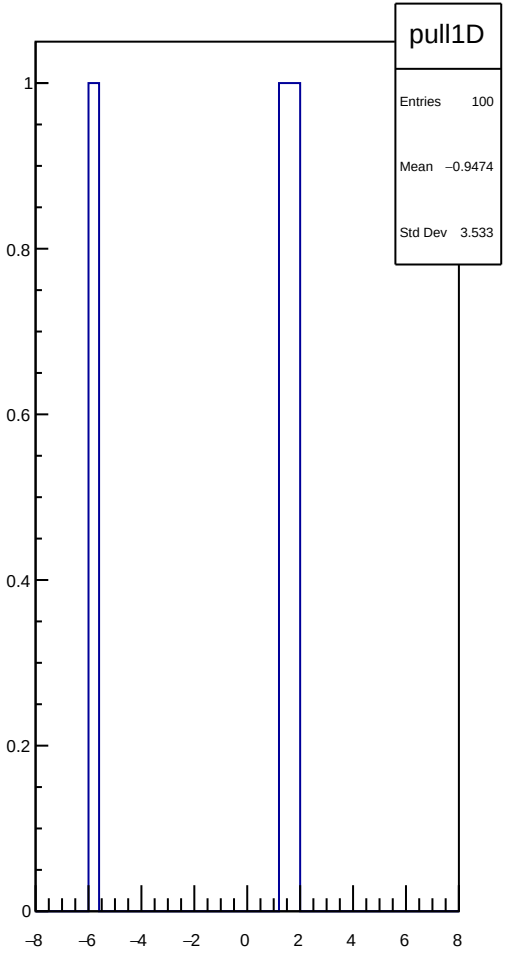

yield_bpm11Y_rms vs run
χ² / ndf 6.869e+05 / 99
p0 0.01683 ± 1.513e–05
0.1
0.08
0.06
0.04
0.02

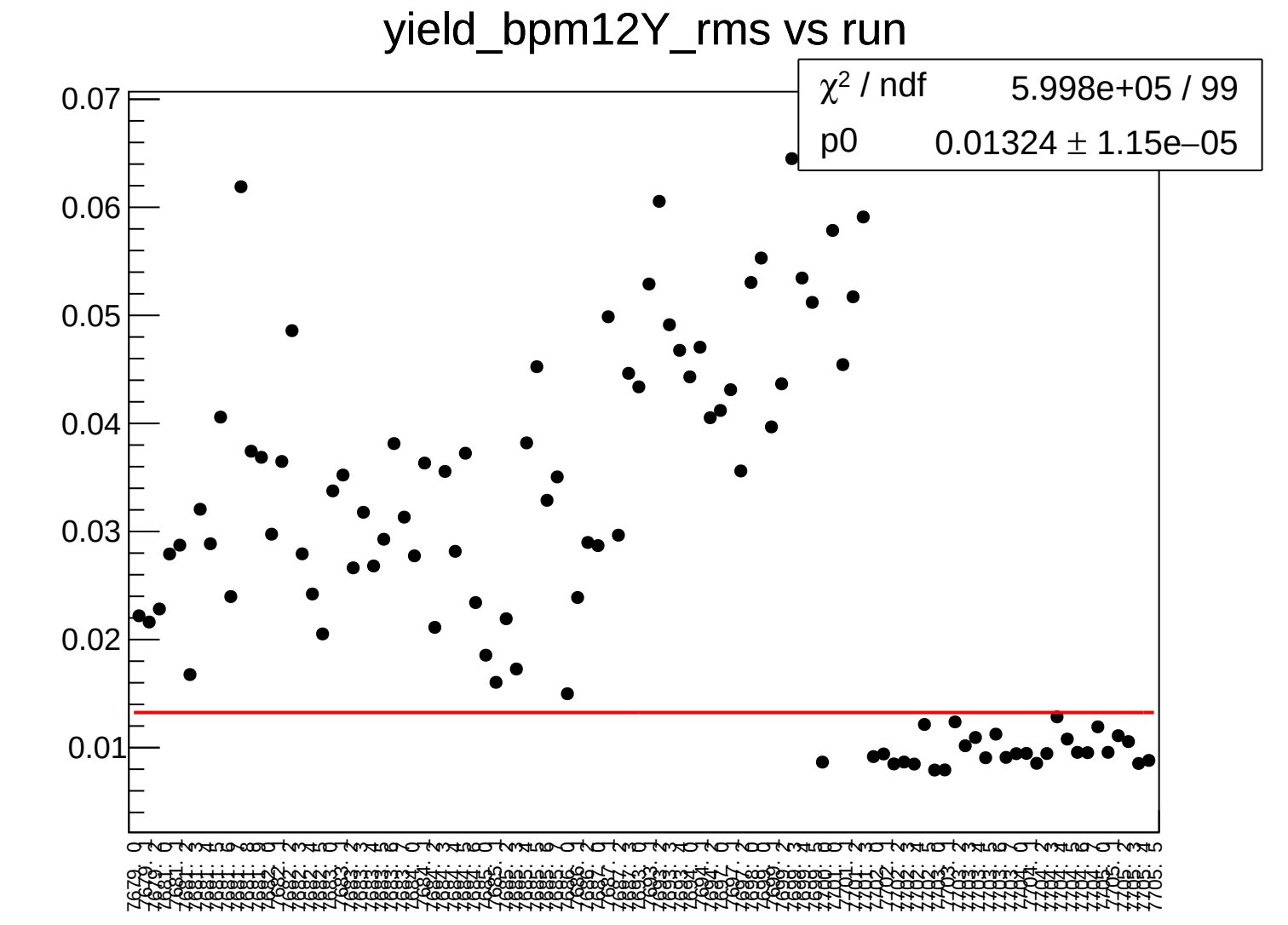

yield_bpm12X_mean vs run
χ² / ndf 1.612e+07 / 99
p0 −1.079 ± 5.795e−05
−0.9
−1
−1.1
−1.2
−1.3
−1.4
−1.5
pull
Entries 100
Mean 489
Std Dev 0
200
0
−200
−400
−600
−800

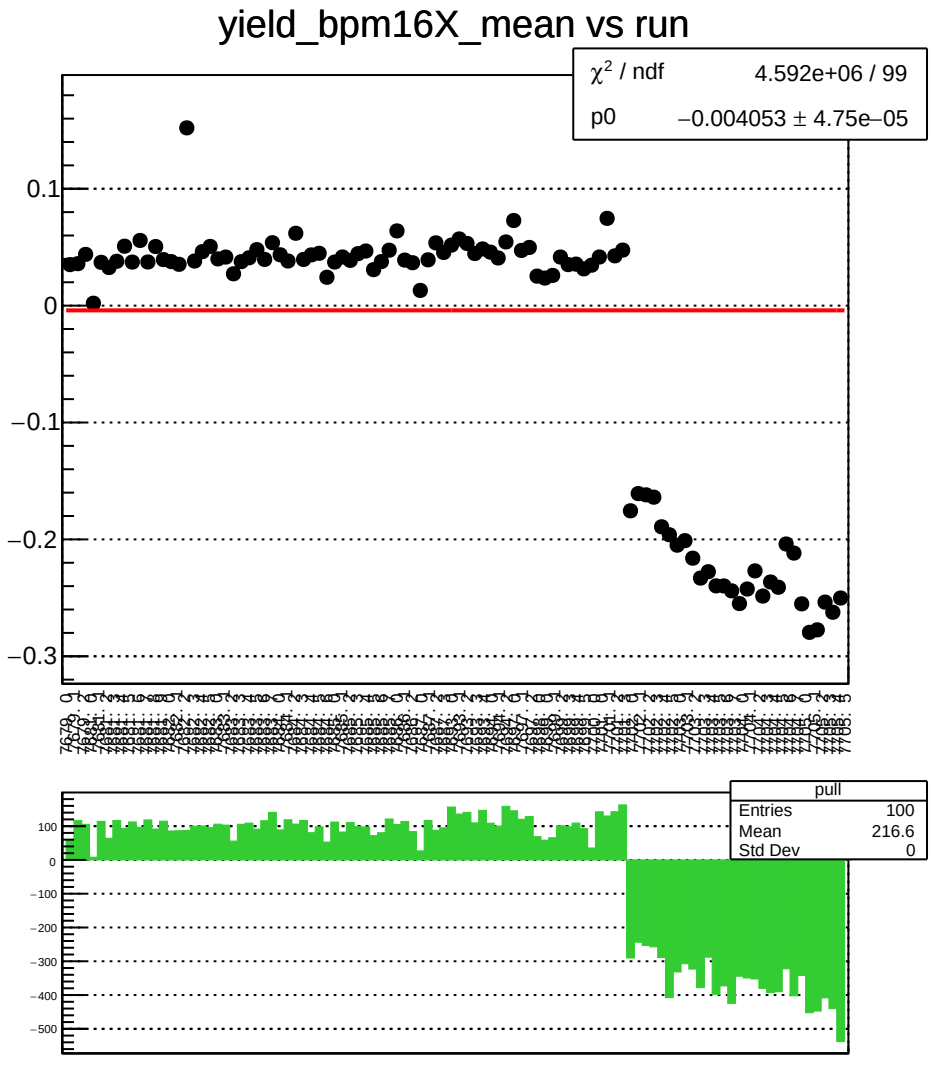

pull1D
Entries 100
Mean 3.66
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

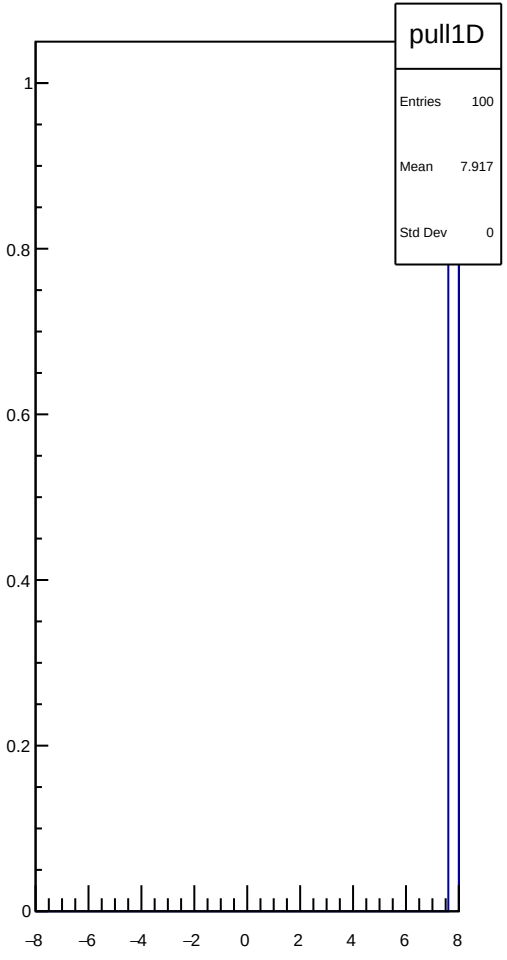

yield_bpm12X_rms vs run
χ² / ndf 6.061e+04 / 99
p0 0.05595 ± 4.098e–05
0.14
0.12
0.1
0.08
0.06
0.04

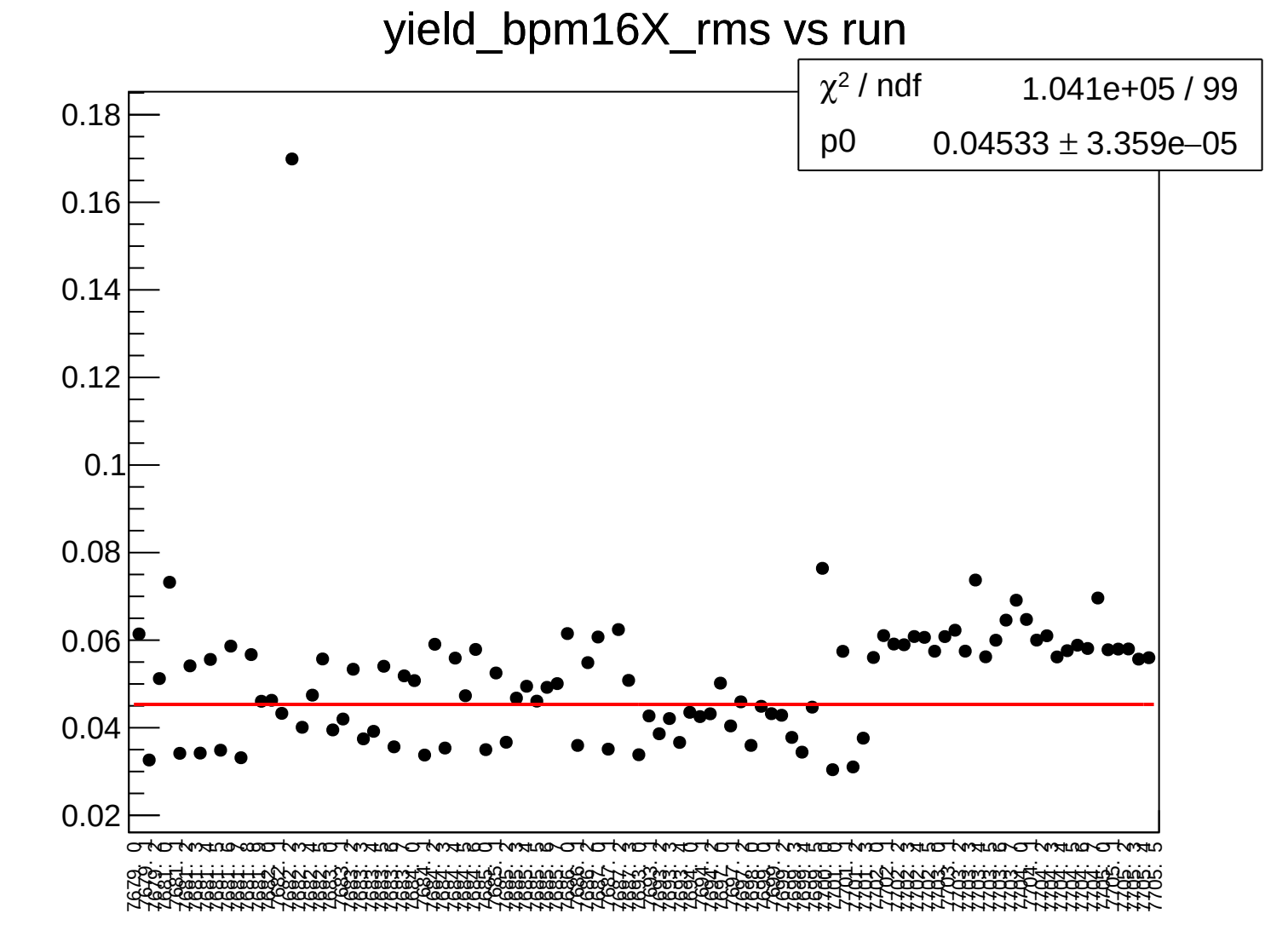

yield_bpm12Y_mean vs run
χ² / ndf 1.213e+07 / 99
p0 0.9114 ± 1.627e−05
1.05
1
0.95
0.9
0.85
pull
Entries 100
Mean −12.83
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

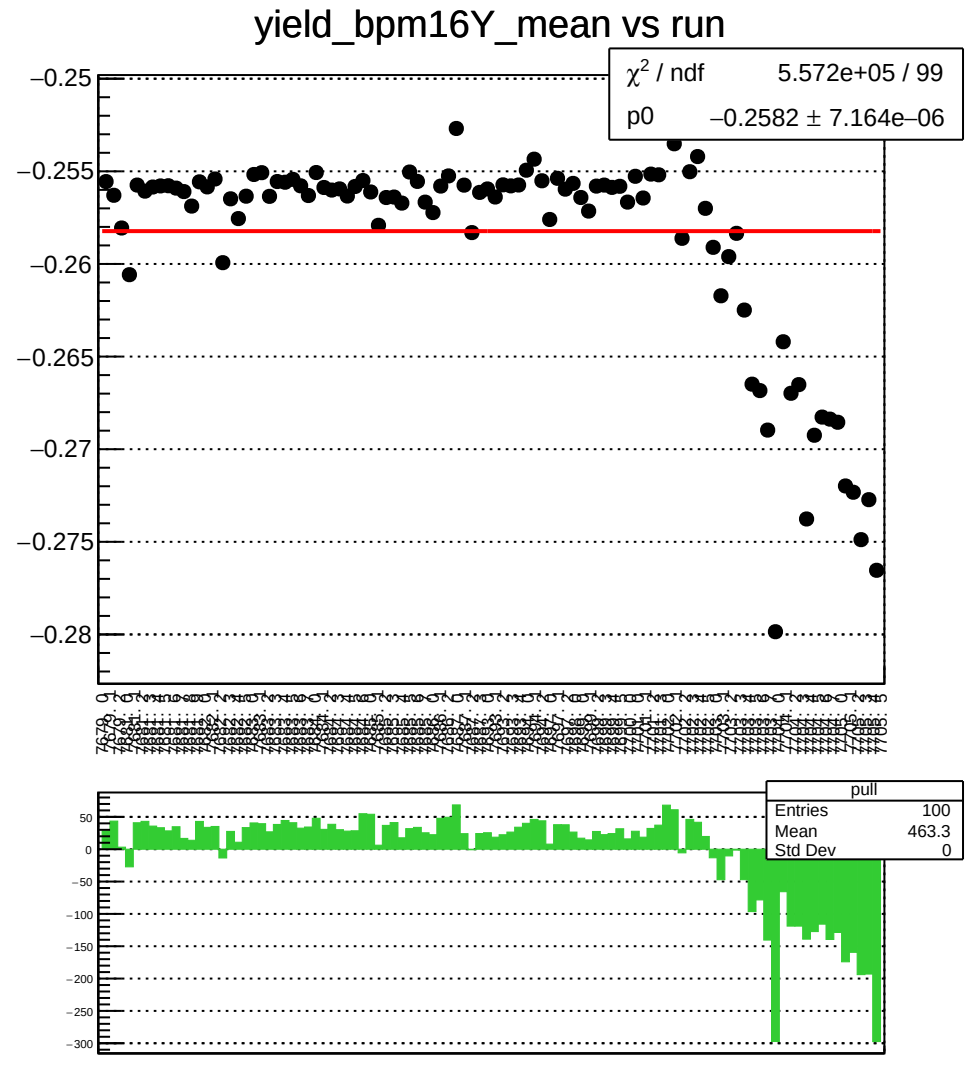

pull1D
Entries 100
Mean −0.9474
Std Dev 3.533
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

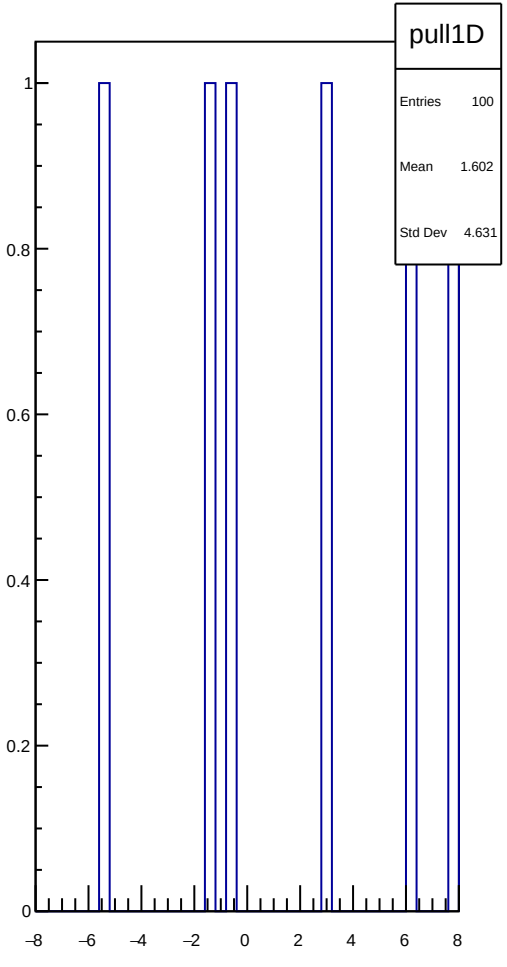

yield_bpm12Y_rms vs run
χ² / ndf 5.998e+05 / 99
p0 0.01324 ± 1.15e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01


yield_bpm16X_mean vs run
χ² / ndf 4.592e+06 / 99
p0 −0.004053 ± 4.75e−05
0.1
0
−0.1
−0.2
−0.3
pull
Entries 100
Mean 216.6
Std Dev 0
100
0
−100
−200
−300
−400
−500

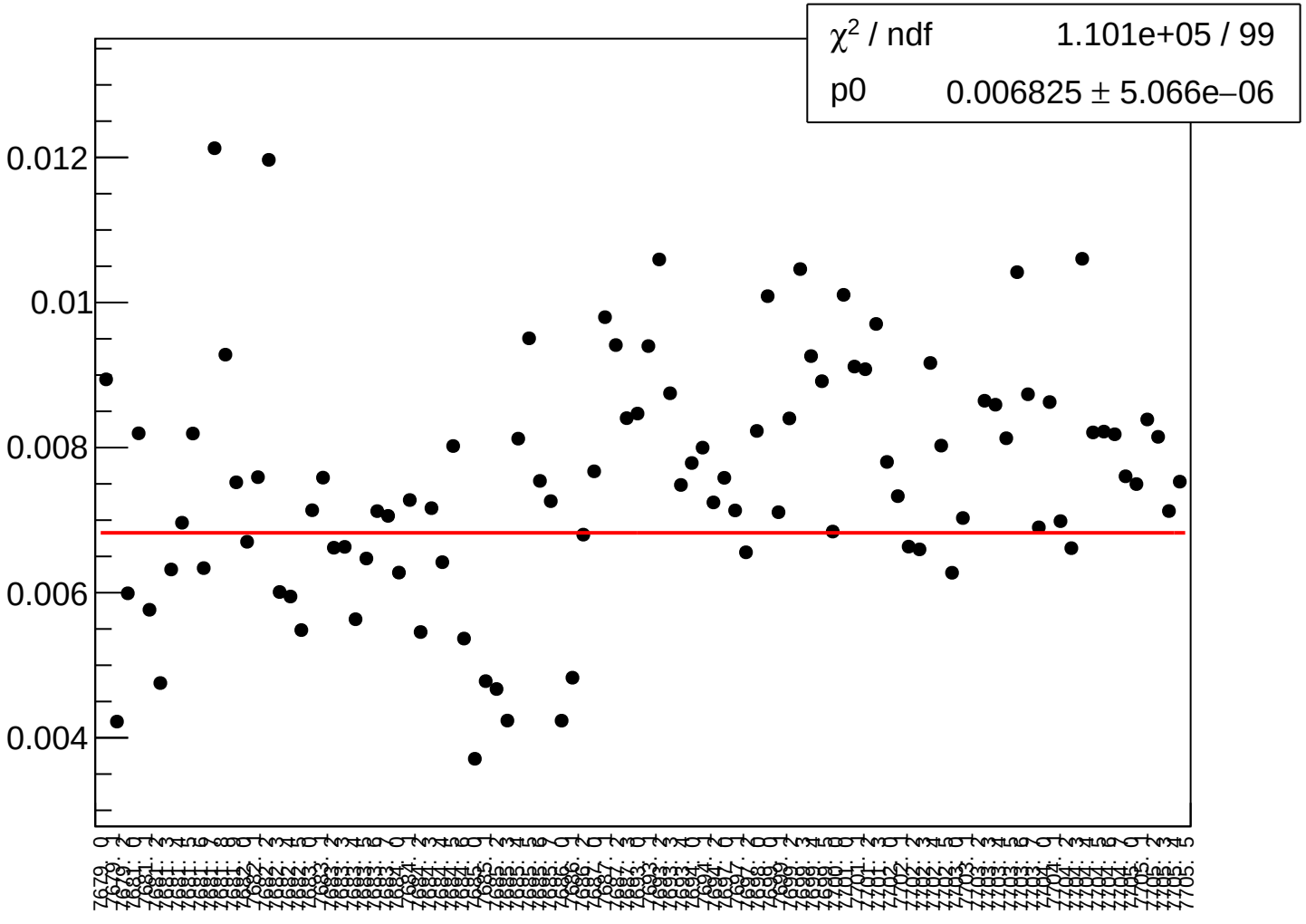

pull1D
Entries 100
Mean 7.917
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

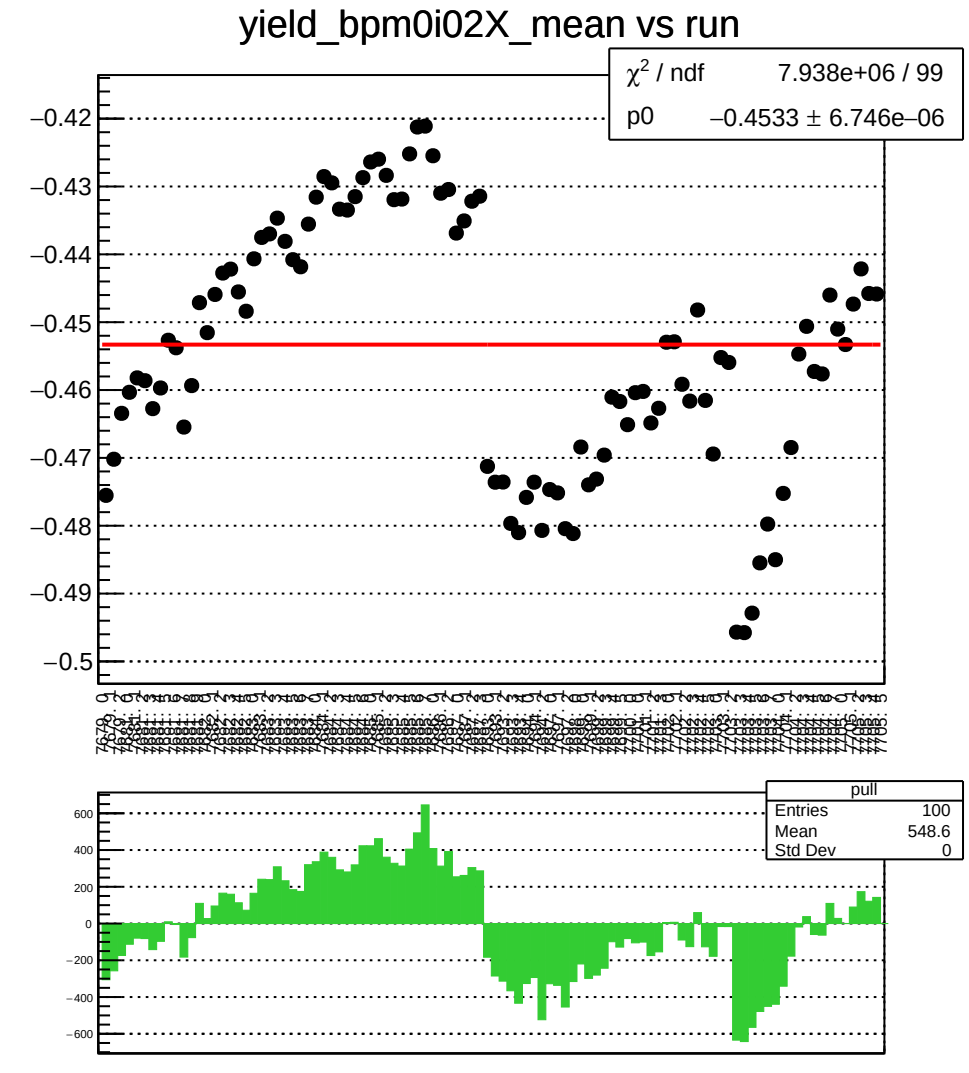

yield_bpm16X_rms vs run
χ² / ndf 1.041e+05 / 99
p0 0.04533 ± 3.359e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

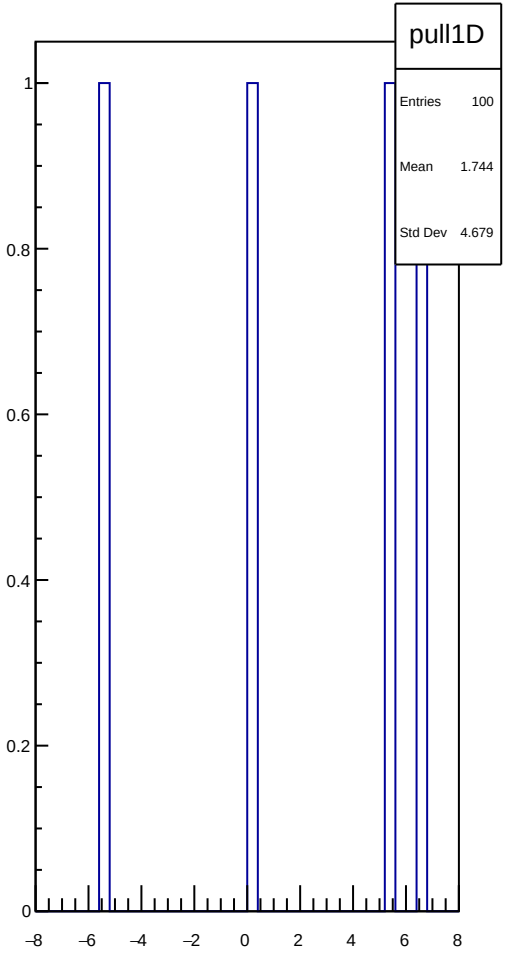

yield_bpm16Y_mean vs run
χ² / ndf 5.572e+05 / 99
p0 −0.2582 ± 7.164e−06
−0.25
−0.255
−0.26
−0.265
−0.27
−0.275
−0.28
pull
Entries 100
Mean 463.3
Std Dev 0
50
0
−50
−100
−150
−200
−250
−300

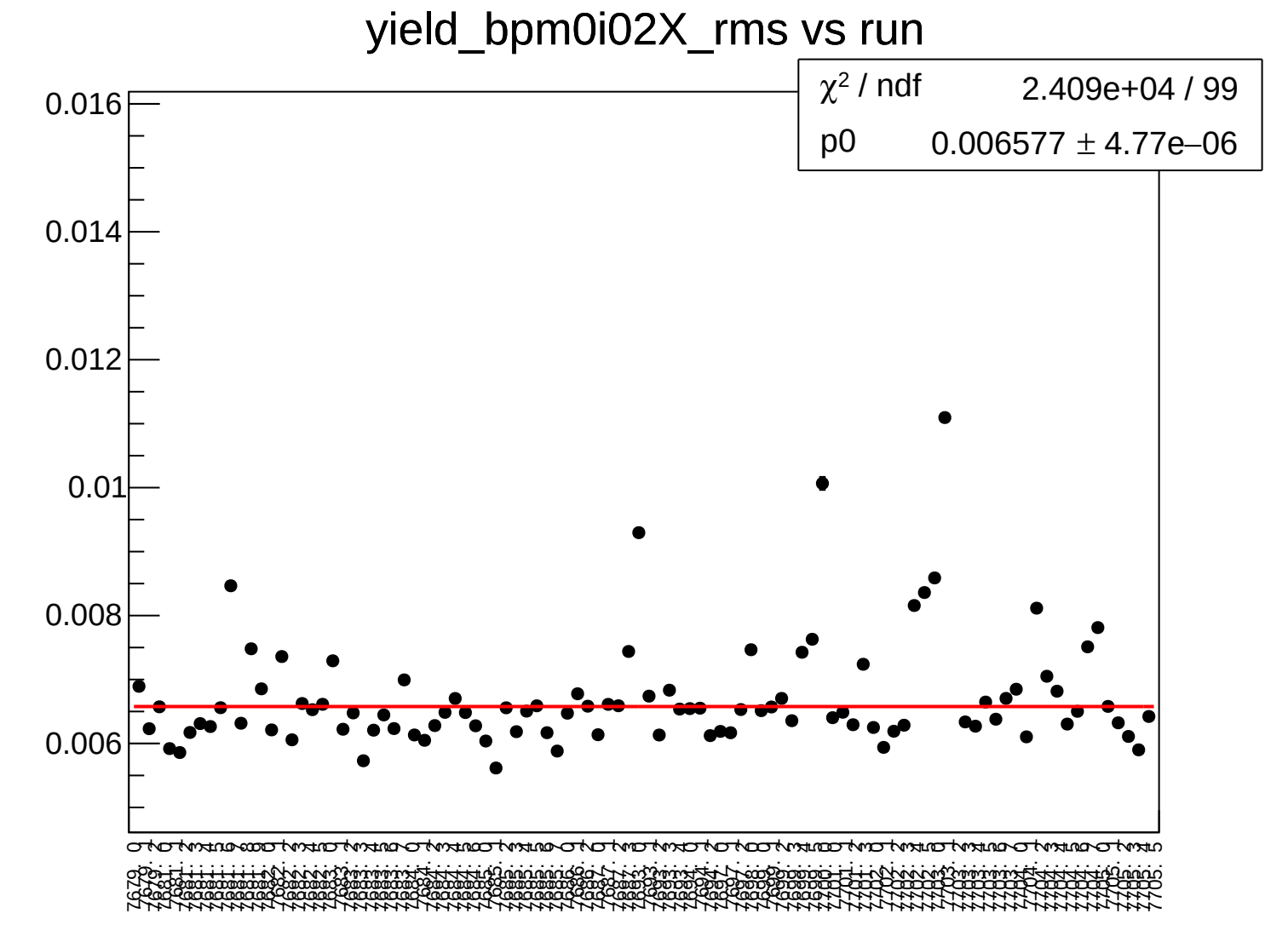

pull1D
Entries 100
Mean 1.602
Std Dev 4.631
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

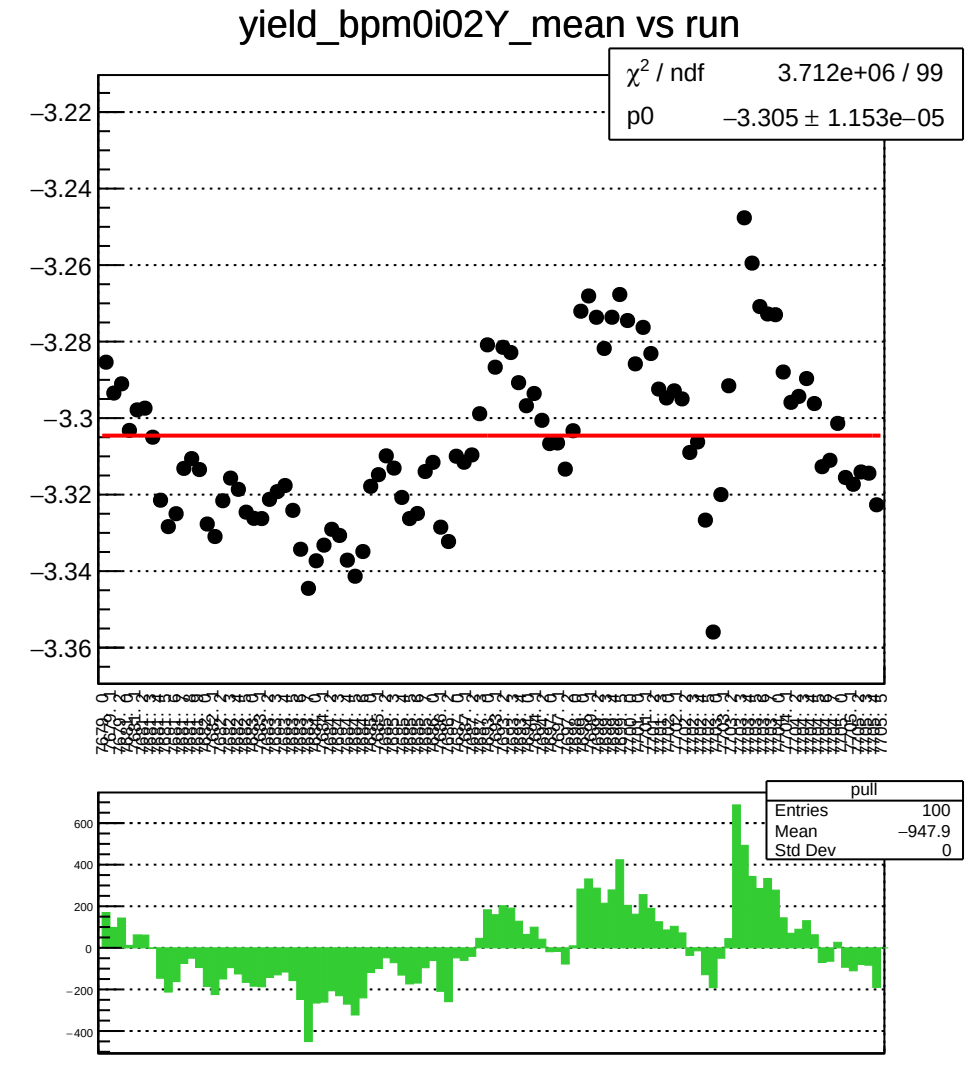
yield_bpm16Y_rms vs run

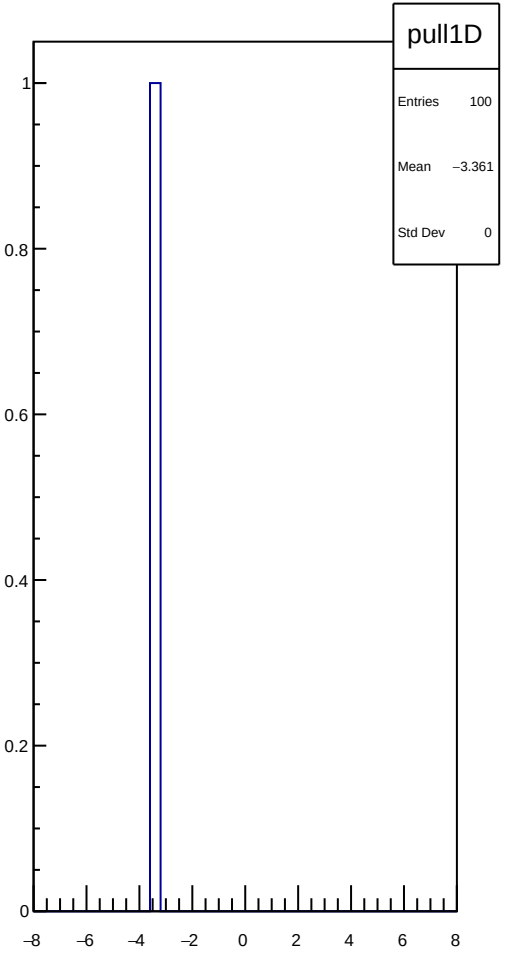


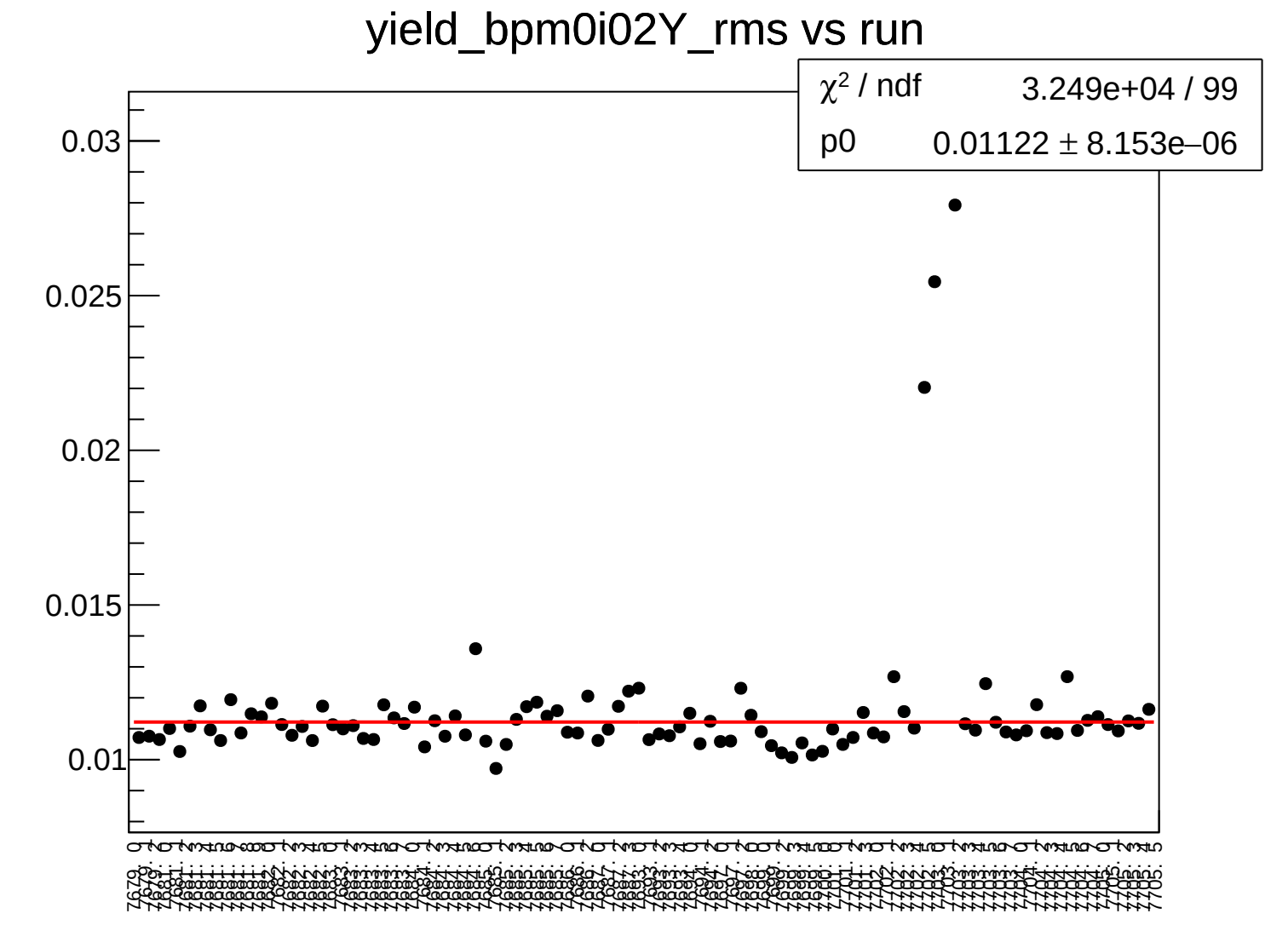

yield_bpm0i02X_mean vs run
χ² / ndf 7.938e+06 / 99
p0 −0.4533 ± 6.746e−06
−0.42
−0.43
−0.44
−0.45
−0.46
−0.47
−0.48
−0.49
−0.5
pull
Entries 100
Mean 548.6
Std Dev 0
600
400
200
0
−200
−400
−600

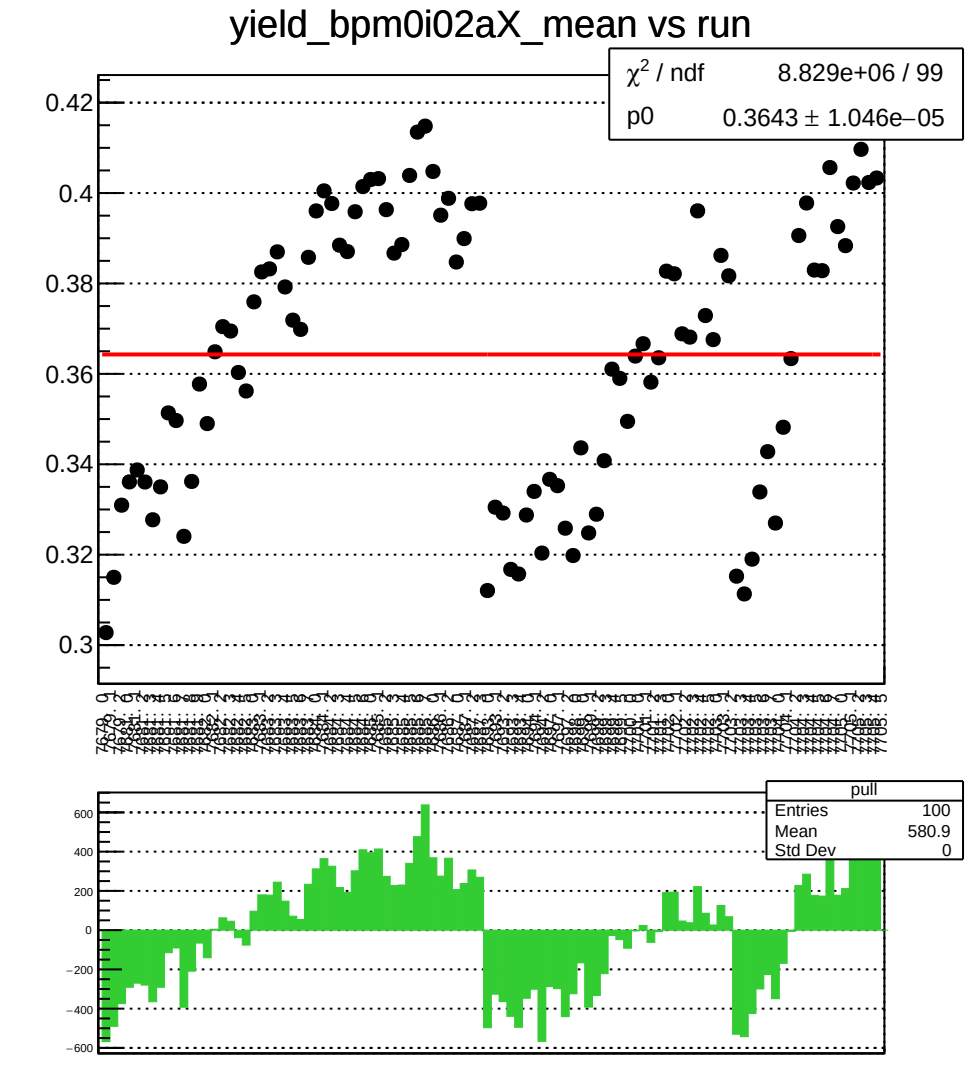

pull1D
Entries 100
Mean 1.744
Std Dev 4.679
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

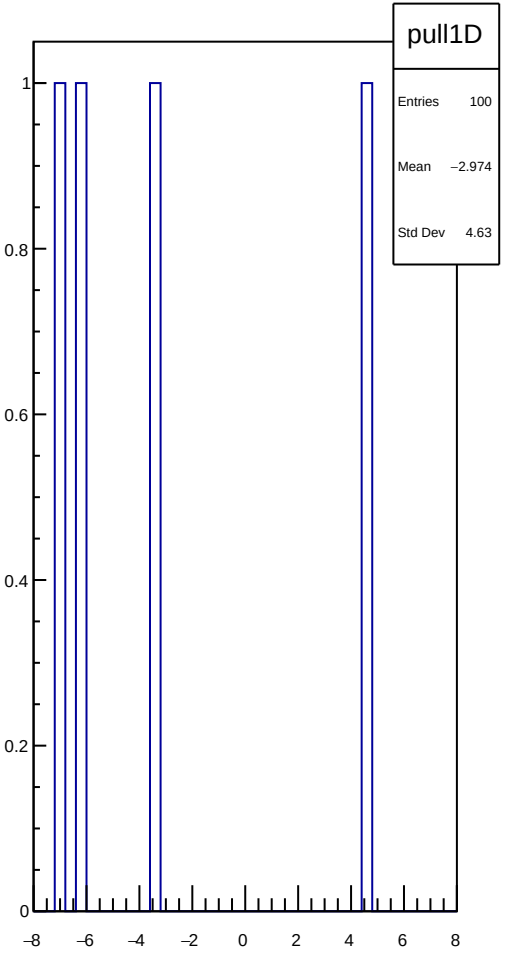

yield_bpm0i02X_rms vs run
χ² / ndf 2.409e+04 / 99
p0 0.006577 ± 4.77e–06
0.016
0.014
0.012
0.01
0.008
0.006

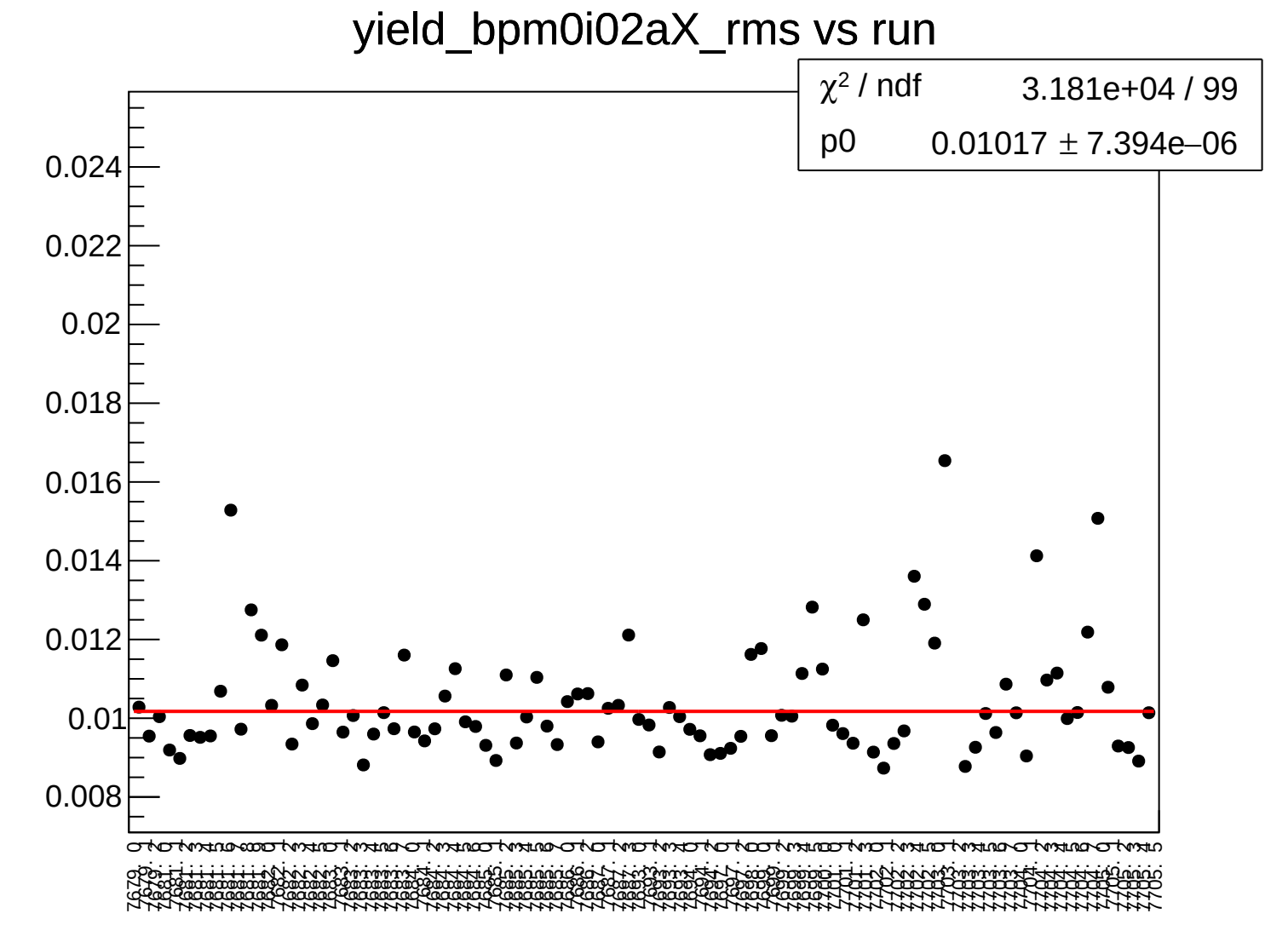

yield_bpm0i02Y_mean vs run
χ² / ndf 3.712e+06 / 99
p0 −3.305 ± 1.153e−05
−3.22
−3.24
−3.26
−3.28
−3.3
−3.32
−3.34
−3.36
pull
Entries 100
Mean −947.9
Std Dev 0
600
400
200
0
−200
−400

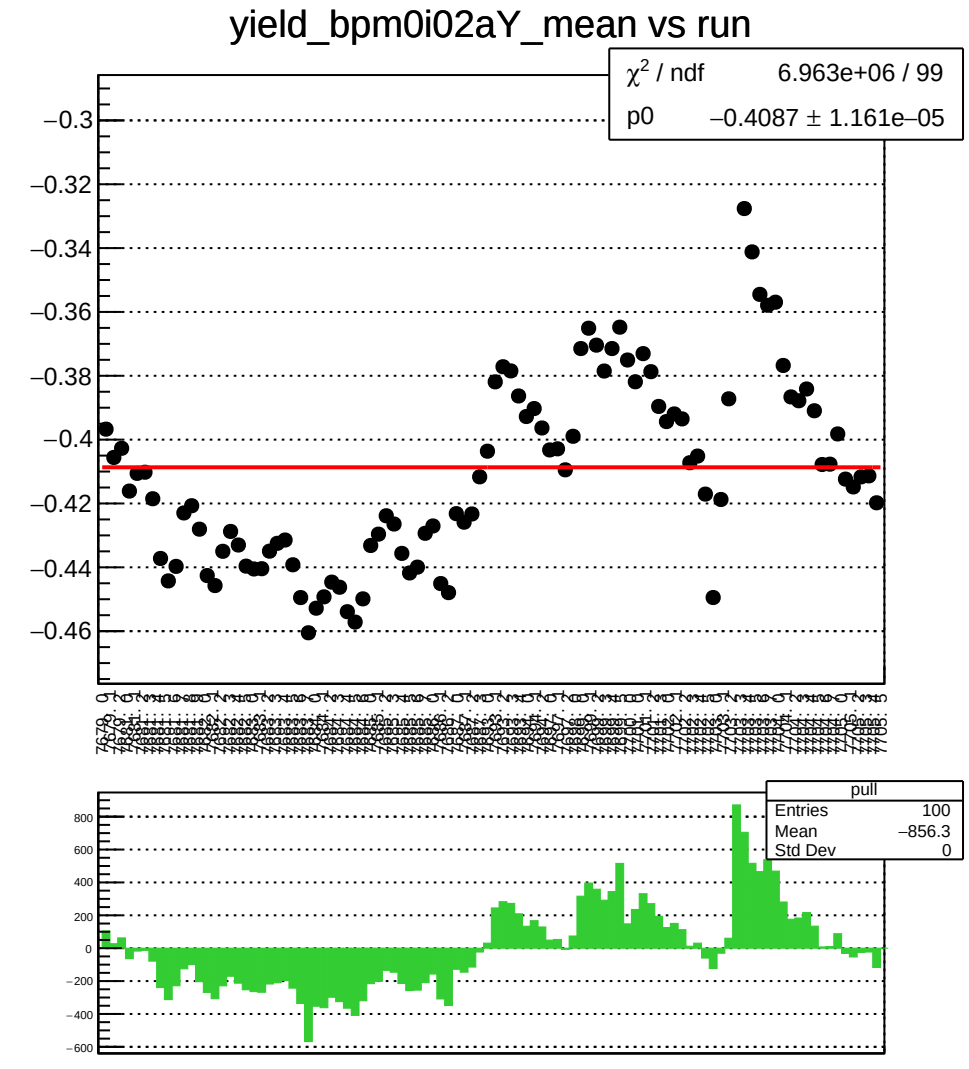

pull1D
Entries 100
Mean −3.361
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

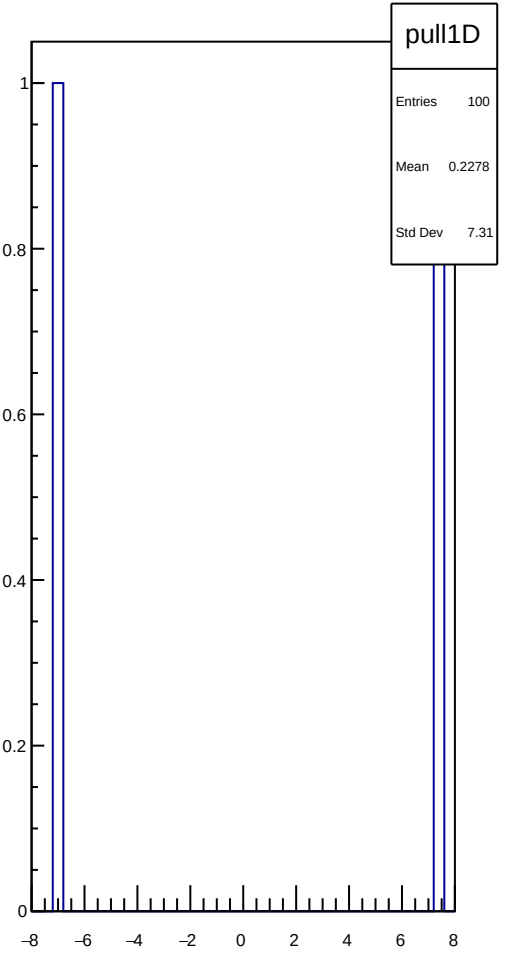

yield_bpm0i02Y_rms vs run
χ² / ndf 3.249e+04 / 99
p0 0.01122 ± 8.153e–06
0.03
0.025
0.02
0.015
0.01

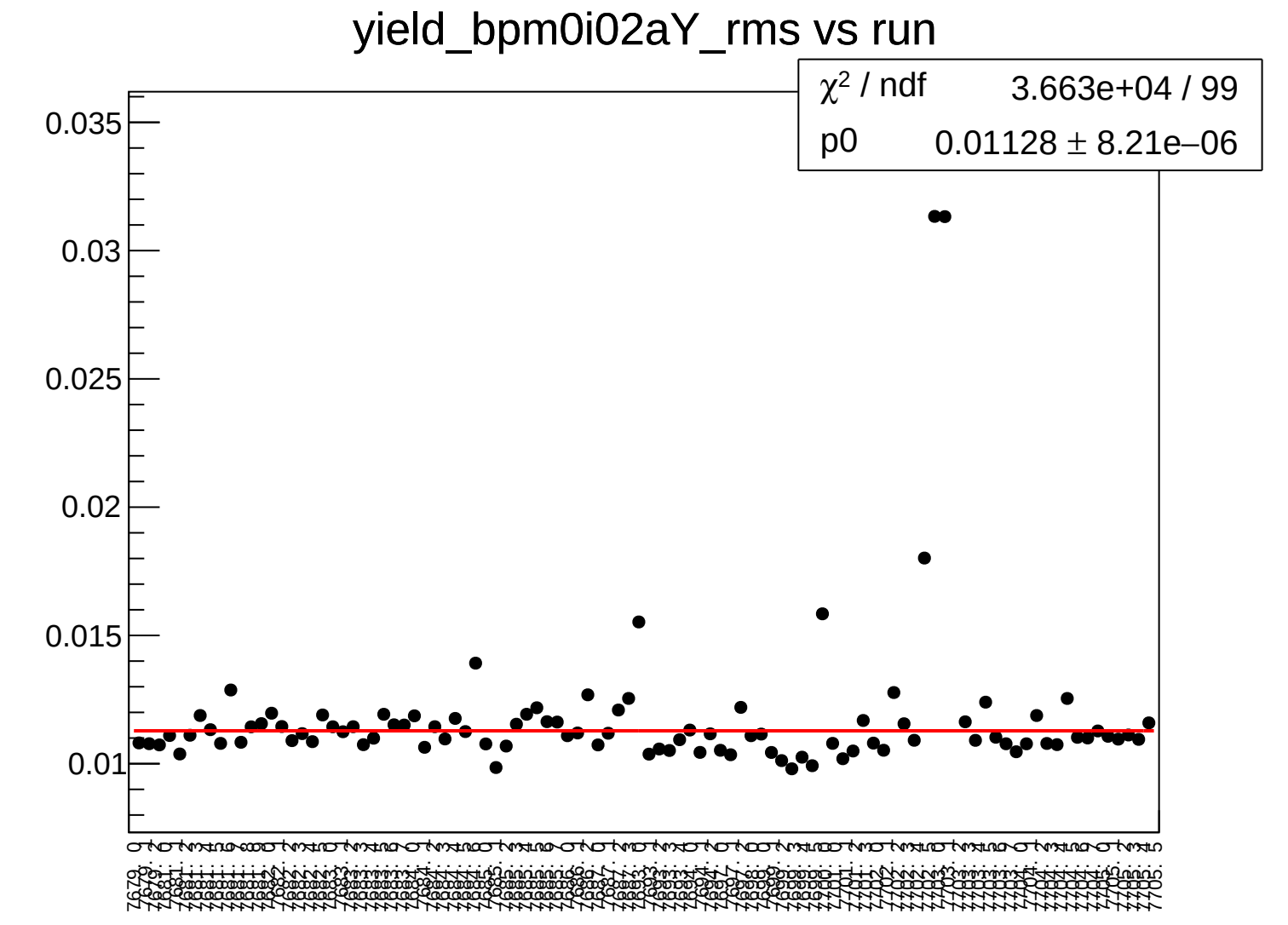

yield_bpm0i02aX_mean vs run
χ² / ndf 8.829e+06 / 99
p0 0.3643 ± 1.046e−05
0.42
0.4
0.38
0.36
0.34
0.32
0.3
pull
Entries 100
Mean 580.9
Std Dev 0
600
400
200
0
−200
−400
−600

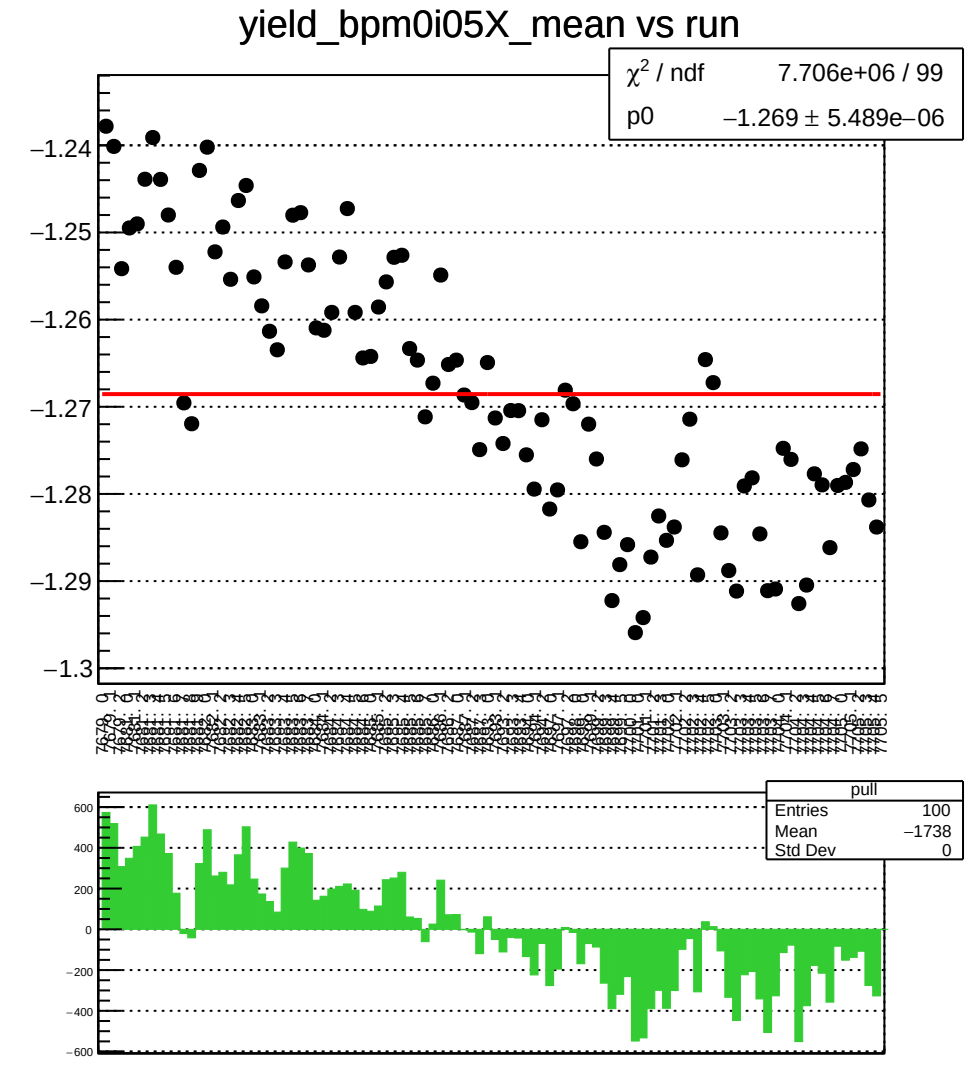

pull1D
Entries 100
Mean −2.974
Std Dev 4.63
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

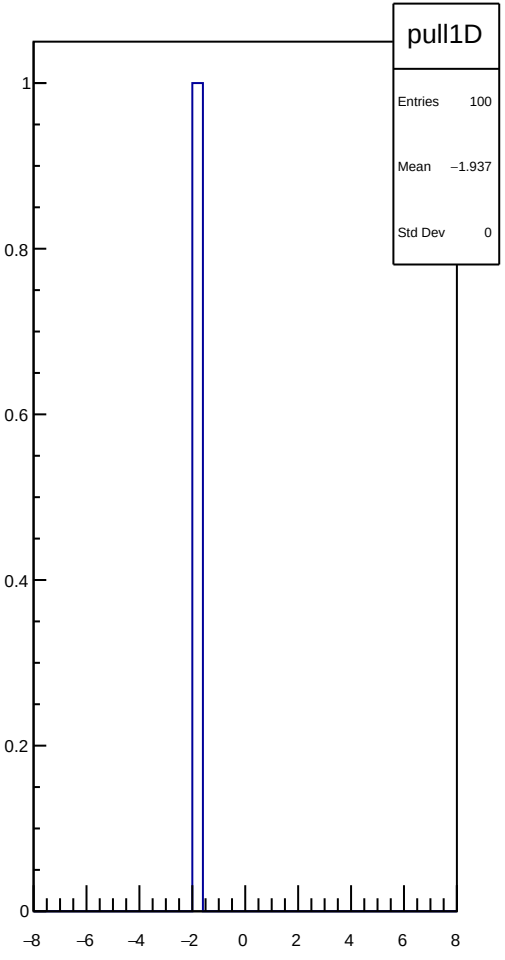

yield_bpm0i02aX_rms vs run
χ² / ndf 3.181e+04 / 99
p0 0.01017 ± 7.394e–06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

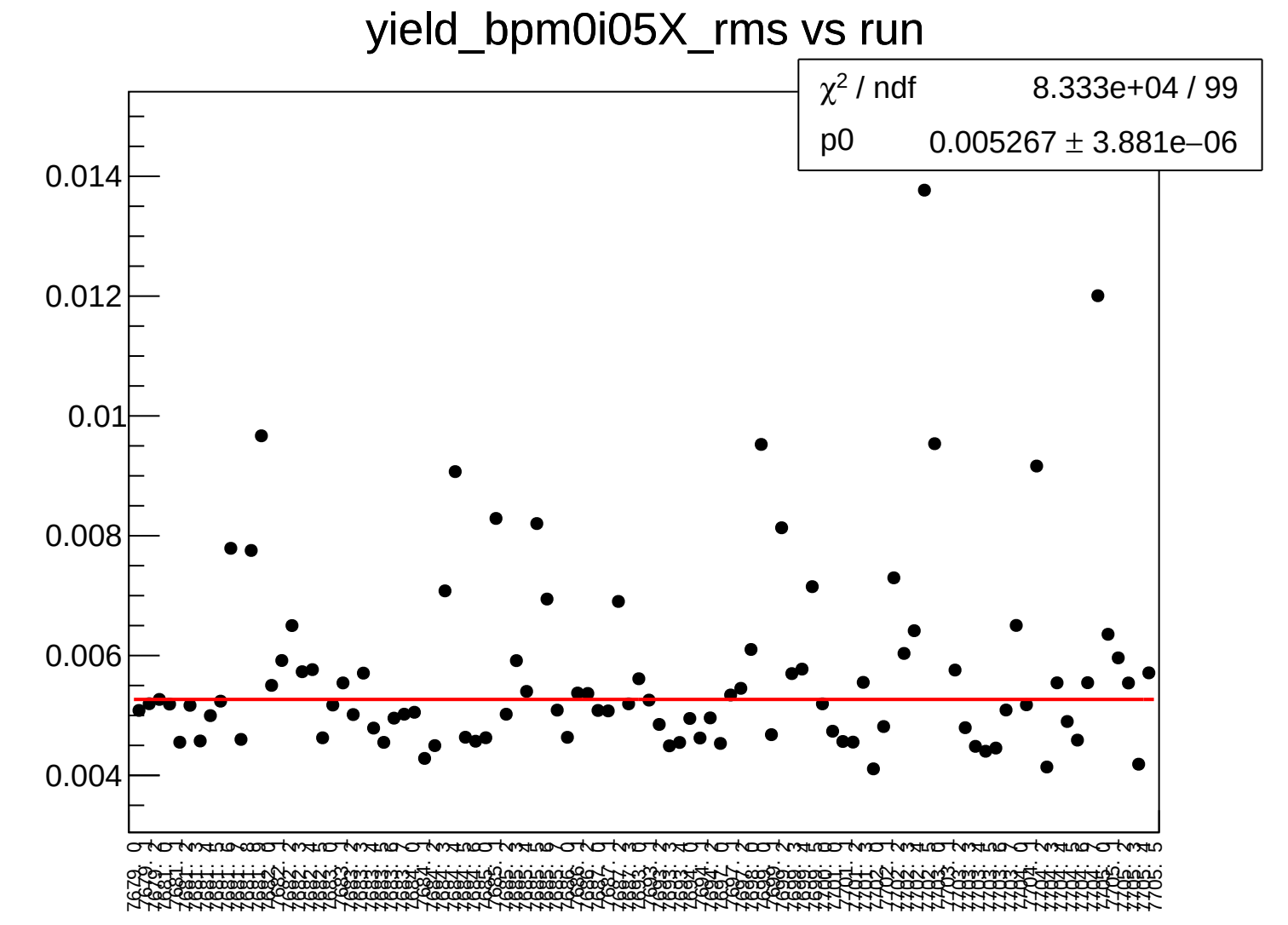

yield_bpm0i02aY_mean vs run
χ² / ndf 6.963e+06 / 99
p0 −0.4087 ± 1.161e−05
−0.3
−0.32
−0.34
−0.36
−0.38
−0.4
−0.42
−0.44
−0.46
pull
Entries 100
Mean −856.3
Std Dev 0
800
600
400
200
0
−200
−400
−600

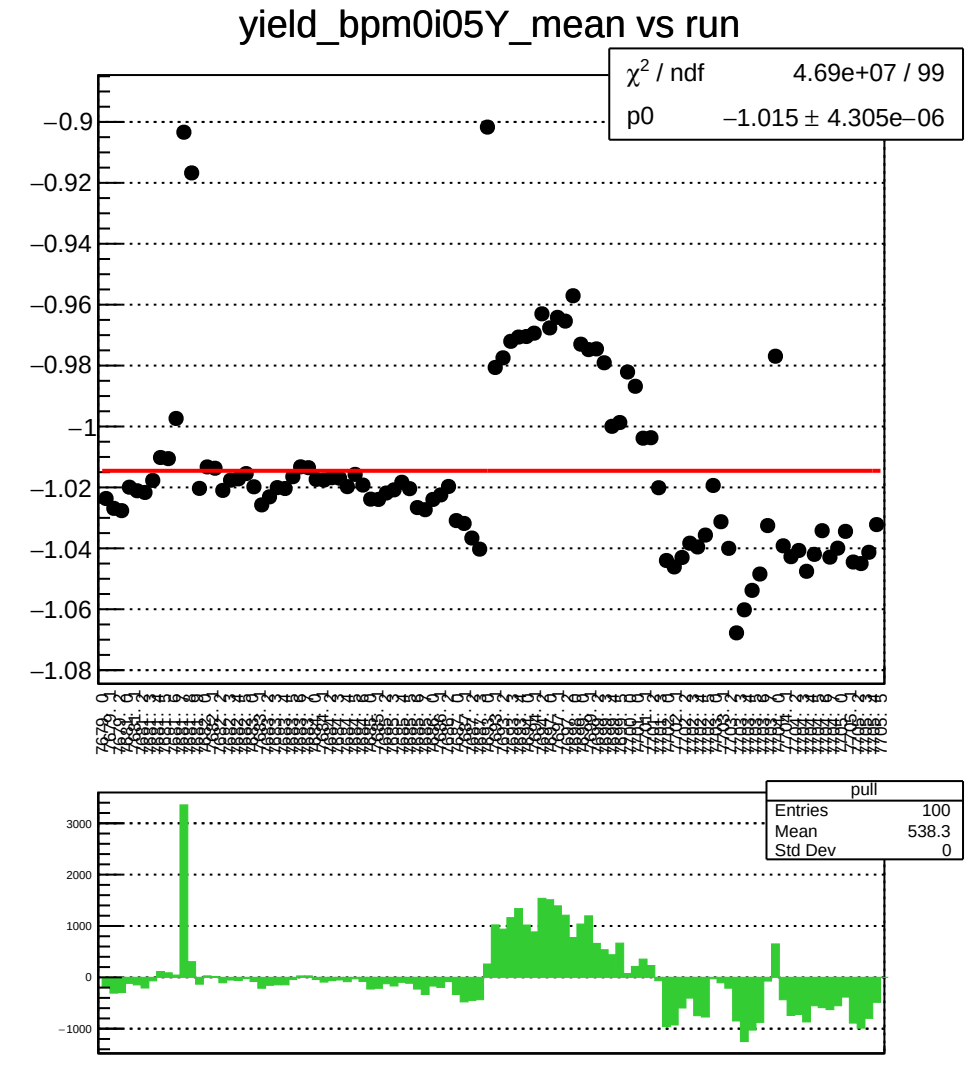

pull1D
Entries 100
Mean 0.2278
Std Dev 7.31
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

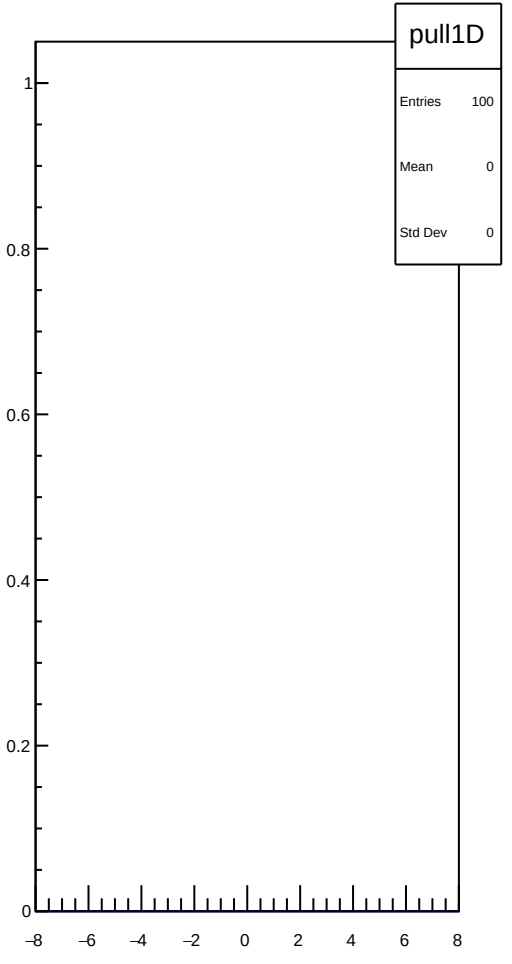

yield_bpm0i02aY_rms vs run
χ² / ndf 3.663e+04 / 99
p0 0.01128 ± 8.21e−06
0.035
0.03
0.025
0.02
0.015
0.01

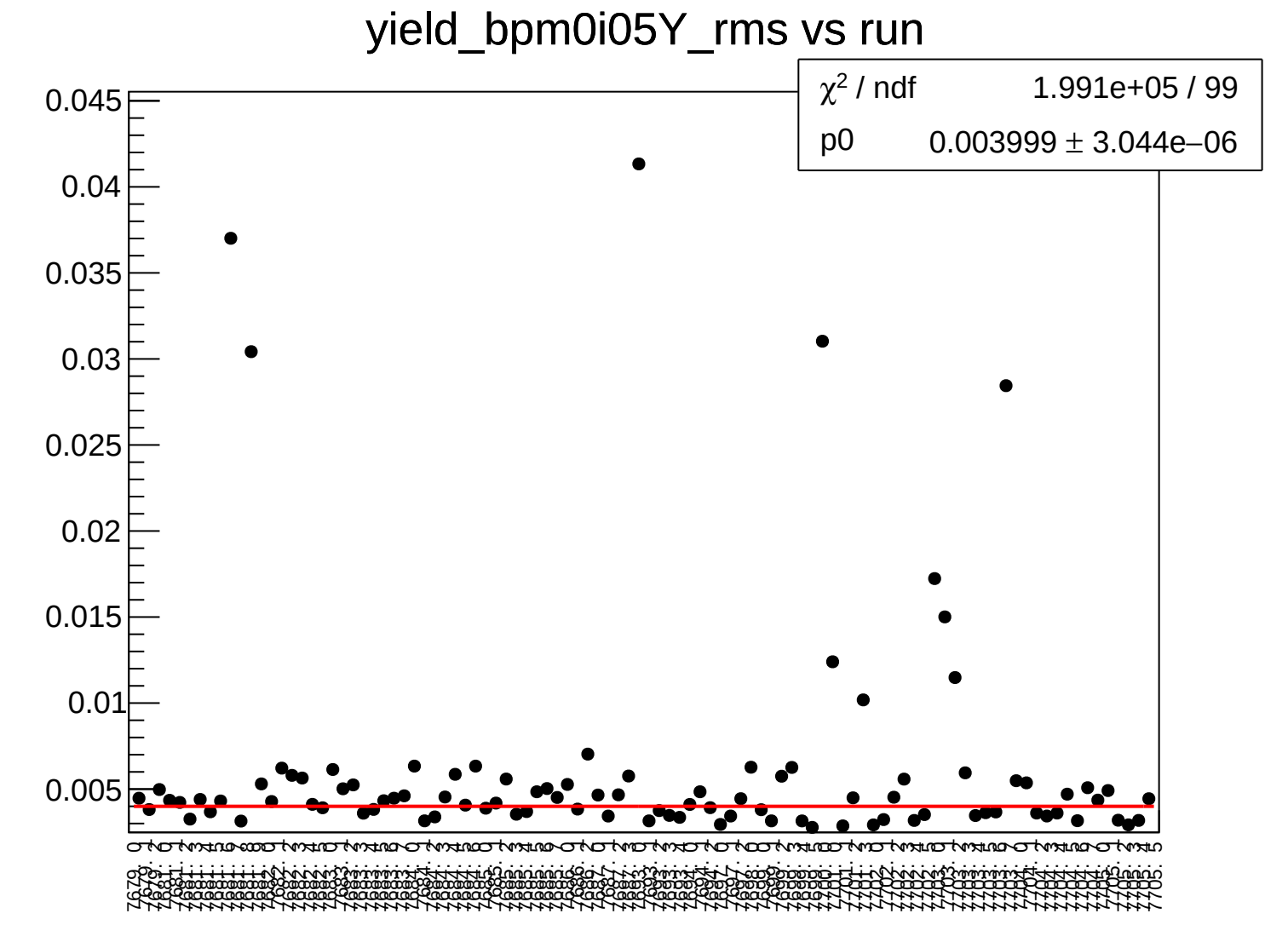

yield_bpm0i05X_mean vs run
χ² / ndf 7.706e+06 / 99
p0 −1.269 ± 5.489e−06
−1.24
−1.25
−1.26
−1.27
−1.28
−1.29
−1.3
pull
Entries 100
Mean −1738
Std Dev 0
600
400
200
0
−200
−400
−600

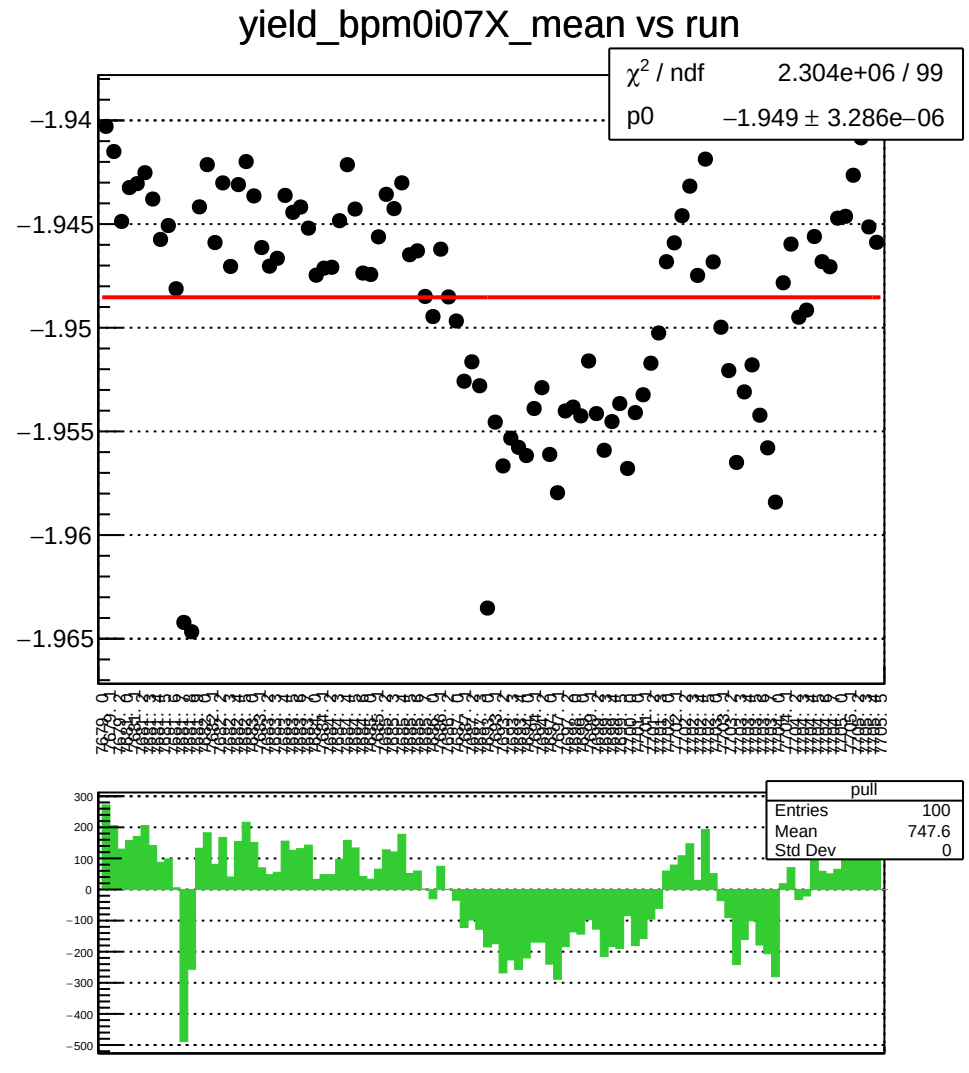

pull1D
Entries 100
Mean −1.937
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

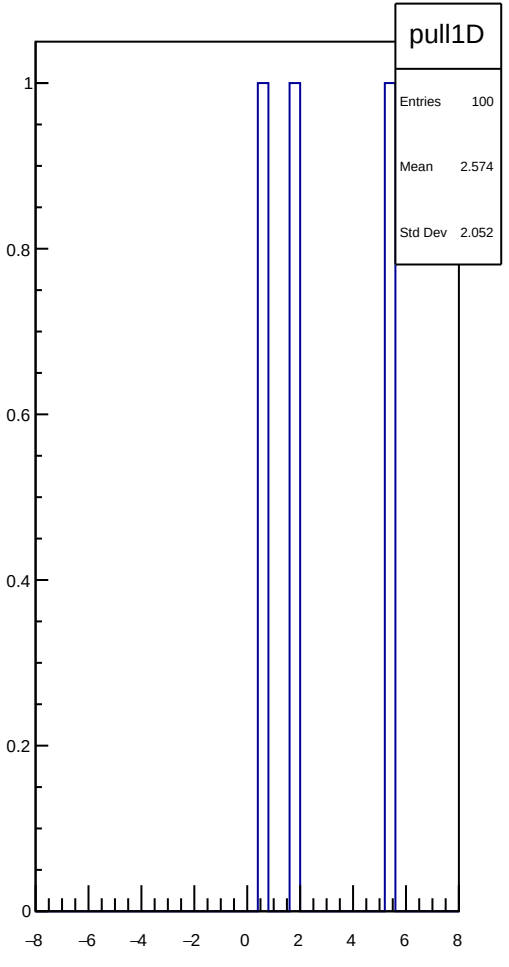

yield_bpm0i05X_rms vs run
χ^2 / ndf 8.333e+04 / 99
p0 0.005267 ± 3.881e−06
0.014
0.012
0.01
0.008
0.006
0.004

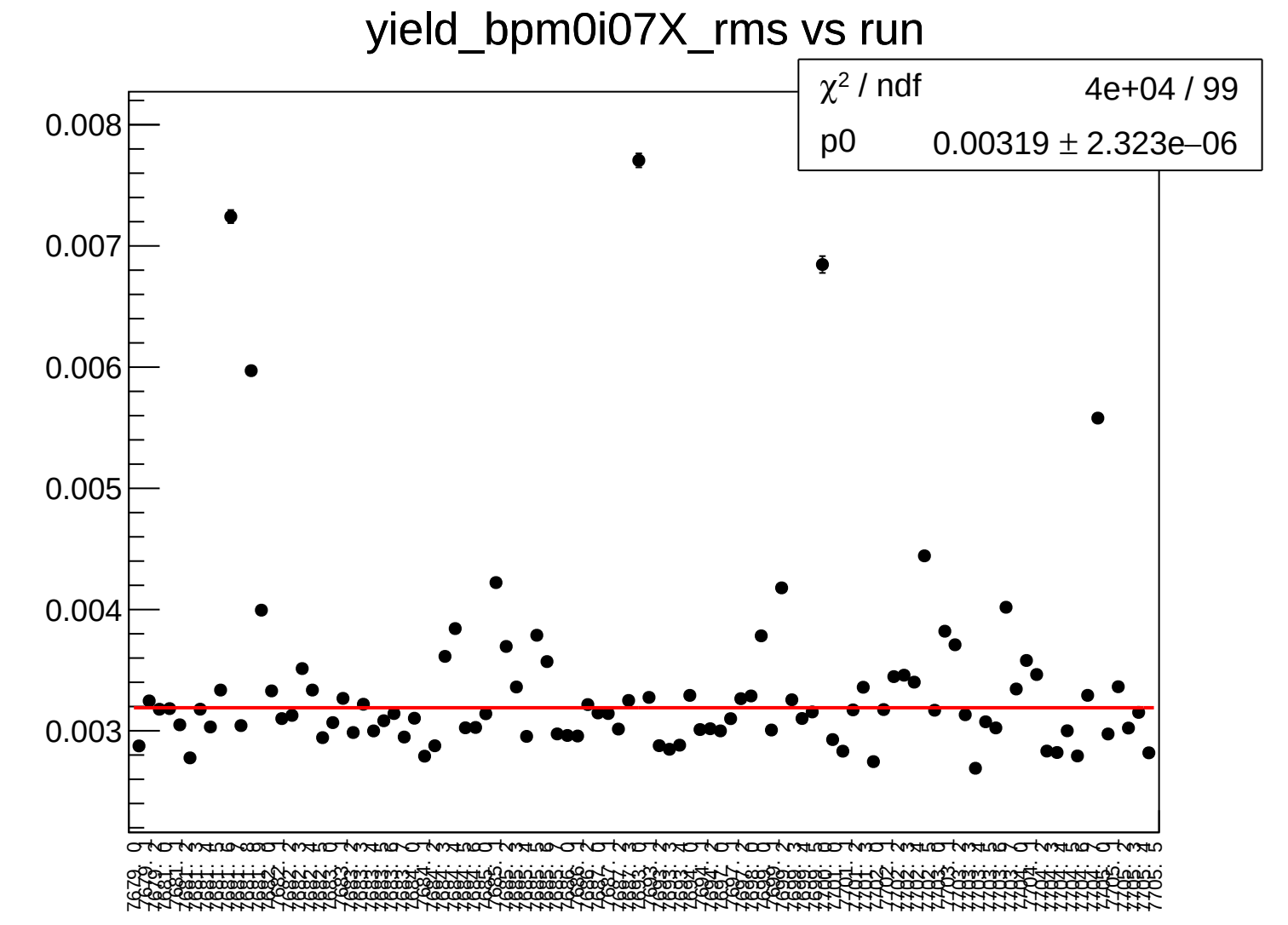

yield_bpm0i05Y_mean vs run
χ² / ndf 4.69e+07 / 99
p0 −1.015 ± 4.305e−06
−0.9
−0.92
−0.94
−0.96
−0.98
−1
−1.02
−1.04
−1.06
−1.08
pull
Entries 100
Mean 538.3
Std Dev 0
3000
2000
1000
0
−1000

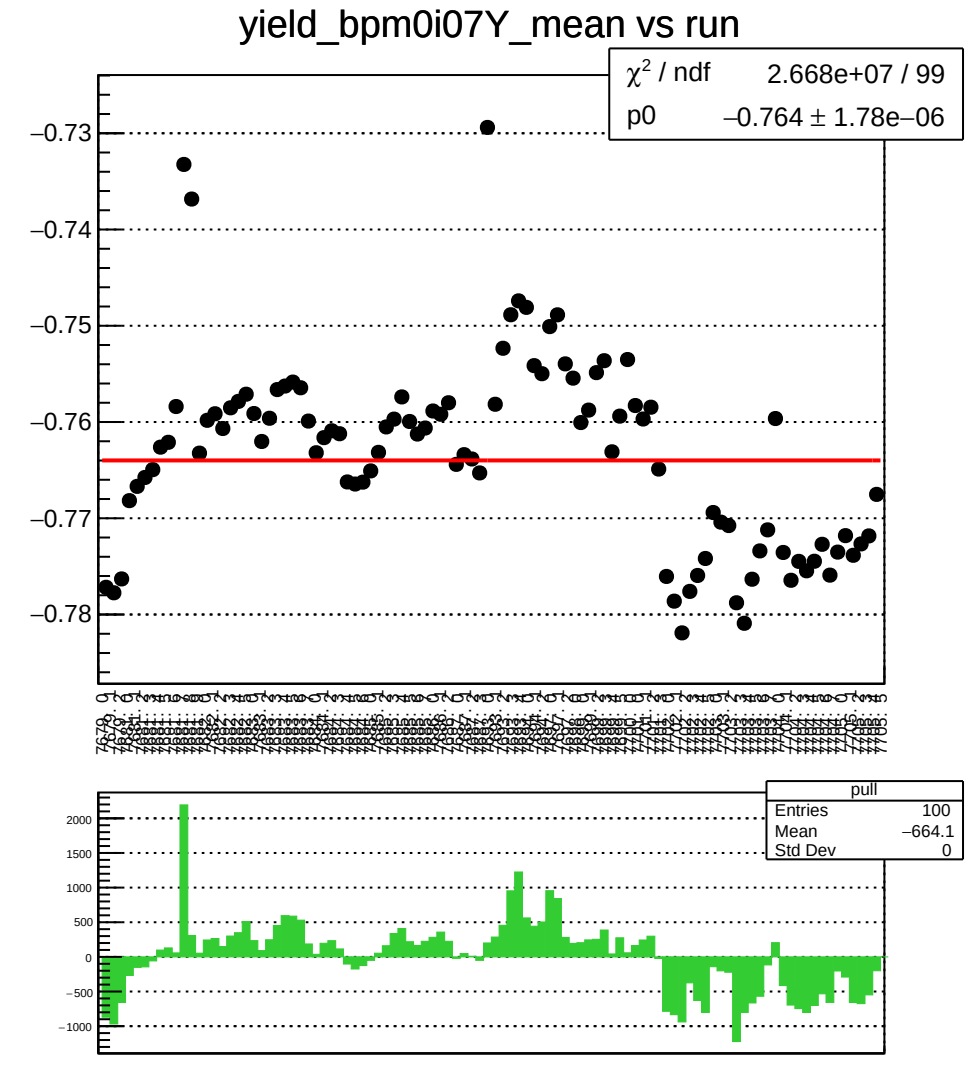

pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

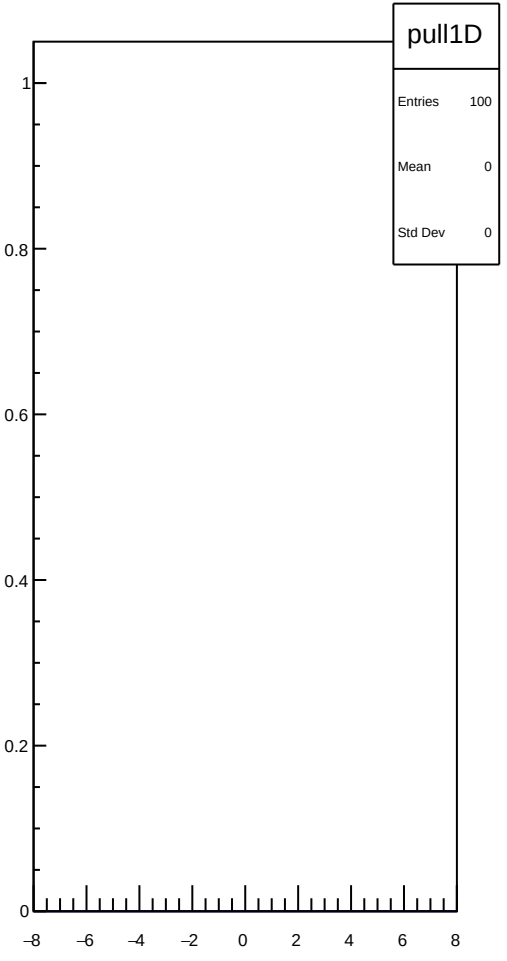

yield_bpm0i05Y_rms vs run
χ² / ndf 1.991e+05 / 99
p0 0.003999 ± 3.044e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

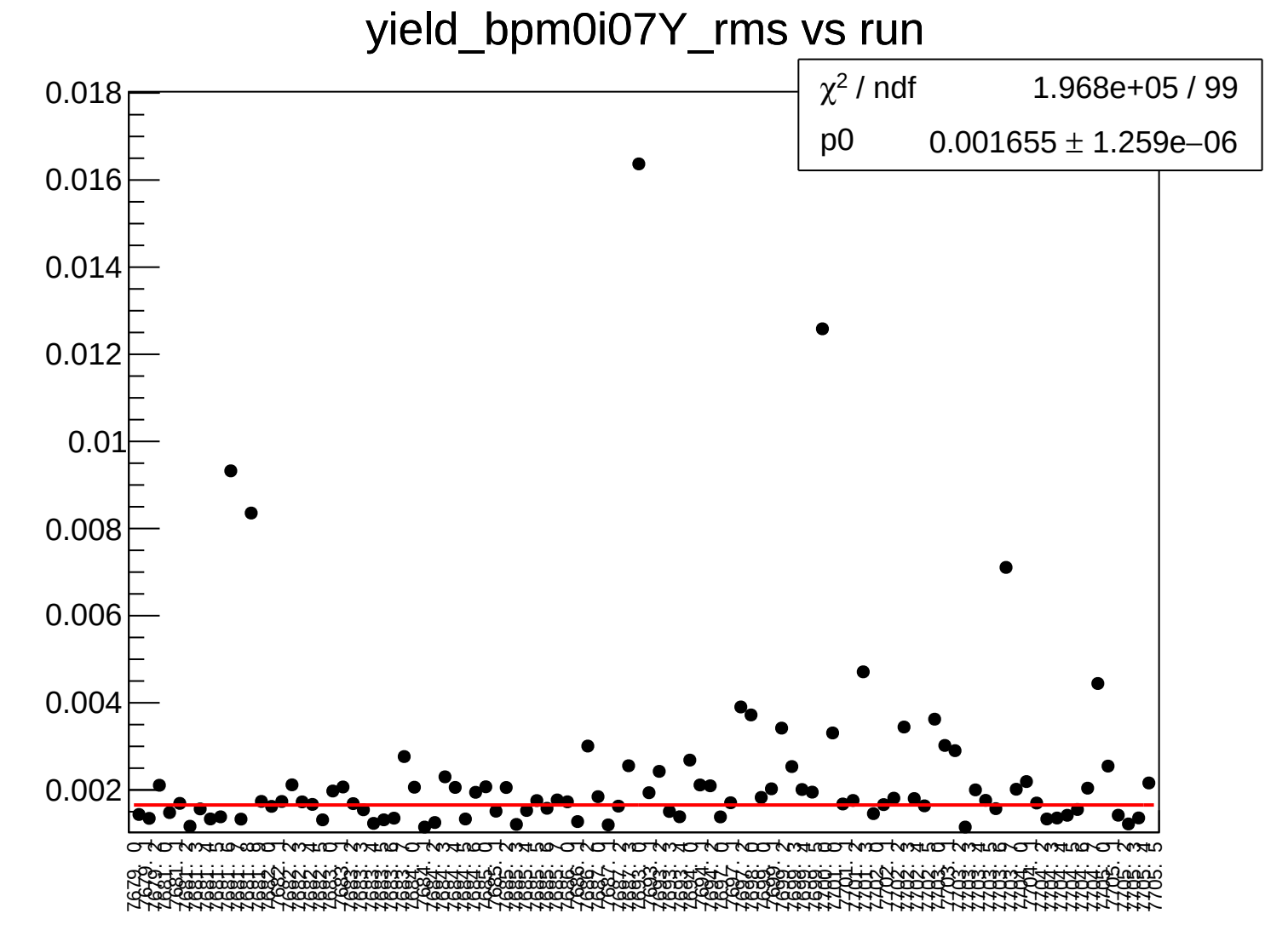

yield_bpm0i07X_mean vs run
χ² / ndf 2.304e+06 / 99
p0 −1.949 ± 3.286e−06
−1.94
−1.945
−1.95
−1.955
−1.96
−1.965
pull
Entries 100
Mean 747.6
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500

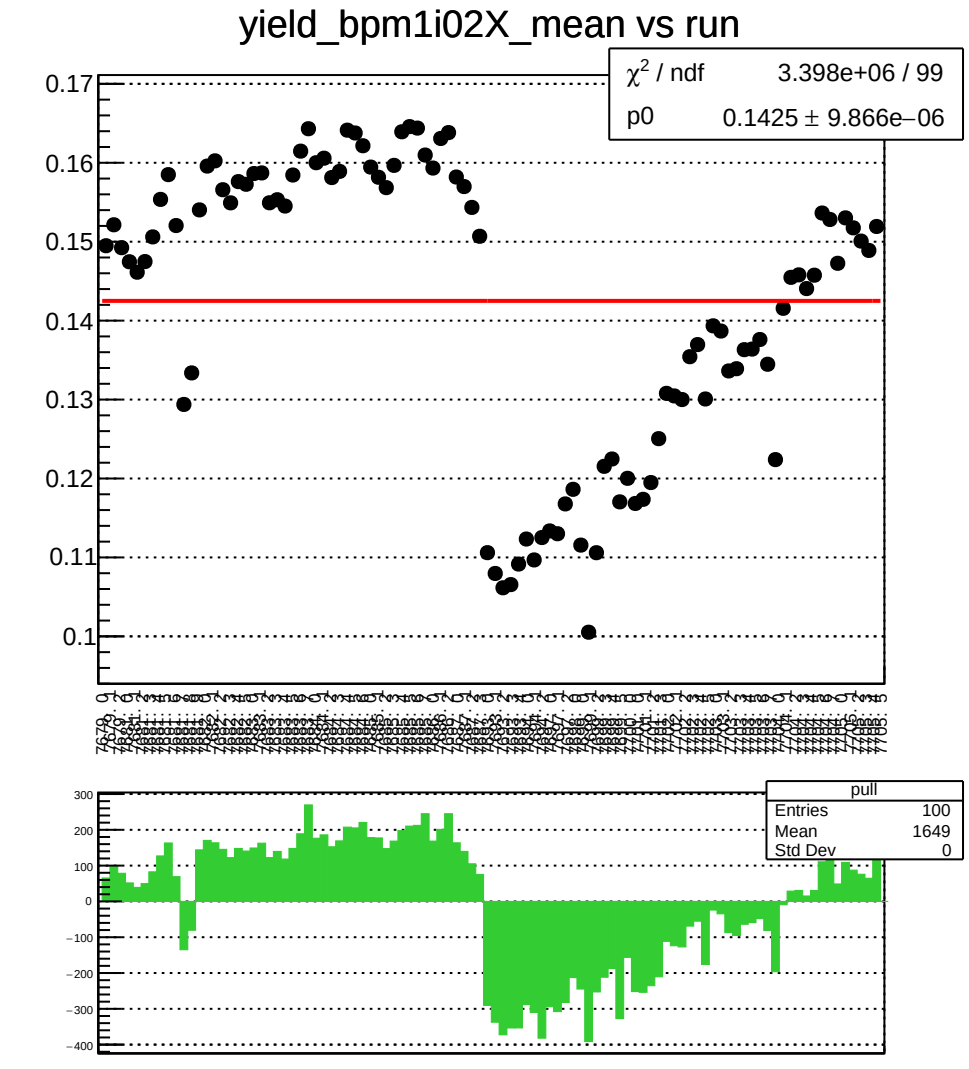

pull1D
Entries 100
Mean 2.574
Std Dev 2.052
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

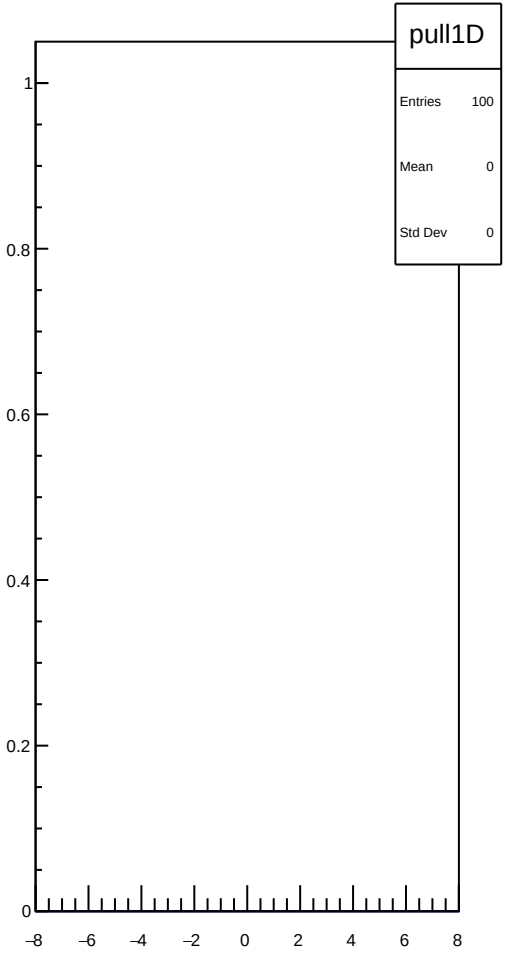

yield_bpm0i07X_rms vs run
χ² / ndf 4e+04 / 99
p0 0.00319 ± 2.323e–06
0.008
0.007
0.006
0.005
0.004
0.003


yield_bpm0i07Y_mean vs run
χ² / ndf 2.668e+07 / 99
p0 −0.764 ± 1.78e−06
−0.73
−0.74
−0.75
−0.76
−0.77
−0.78
pull
Entries 100
Mean −664.1
Std Dev 0
2000
1500
1000
500
0
−500
−1000

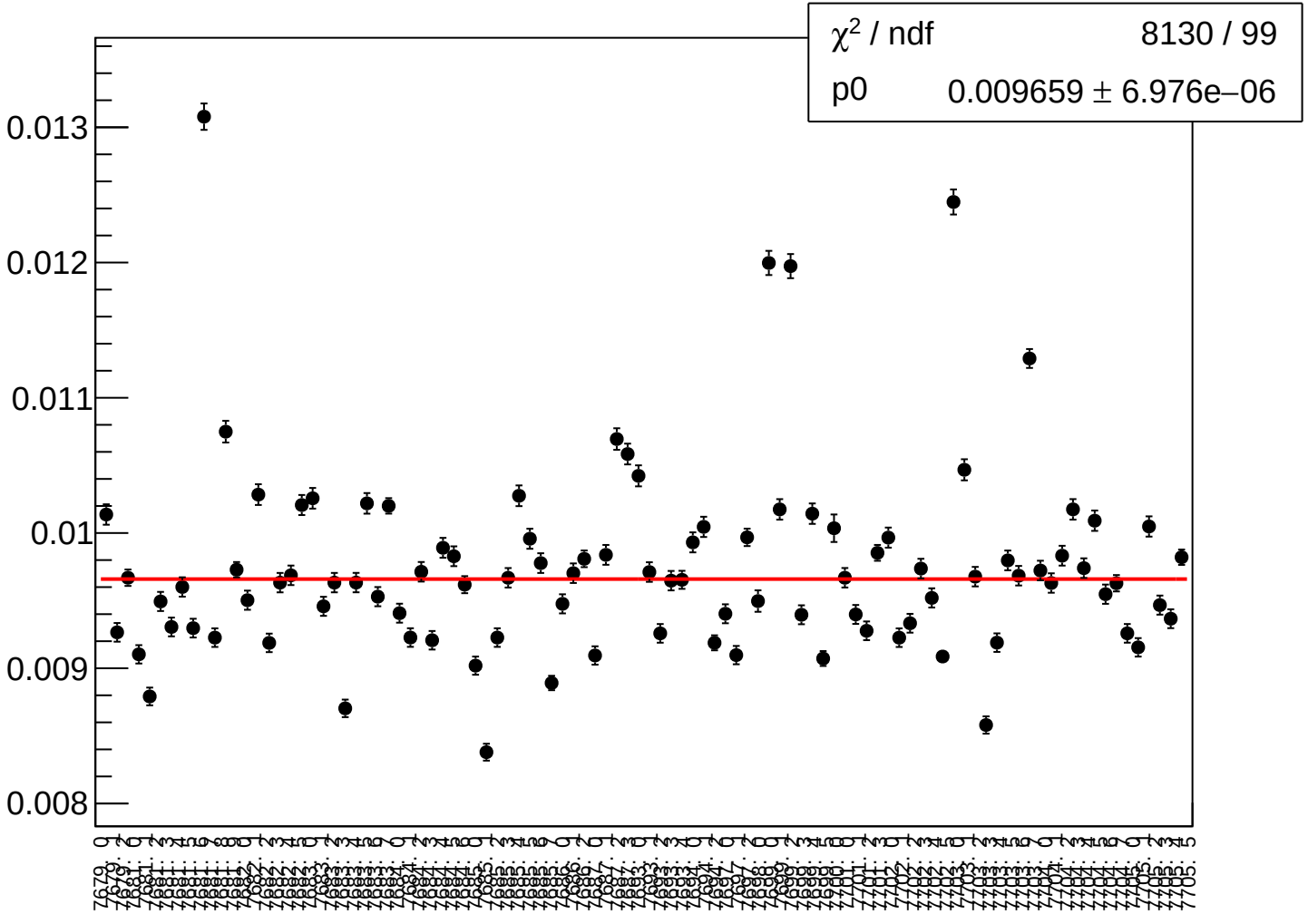

pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

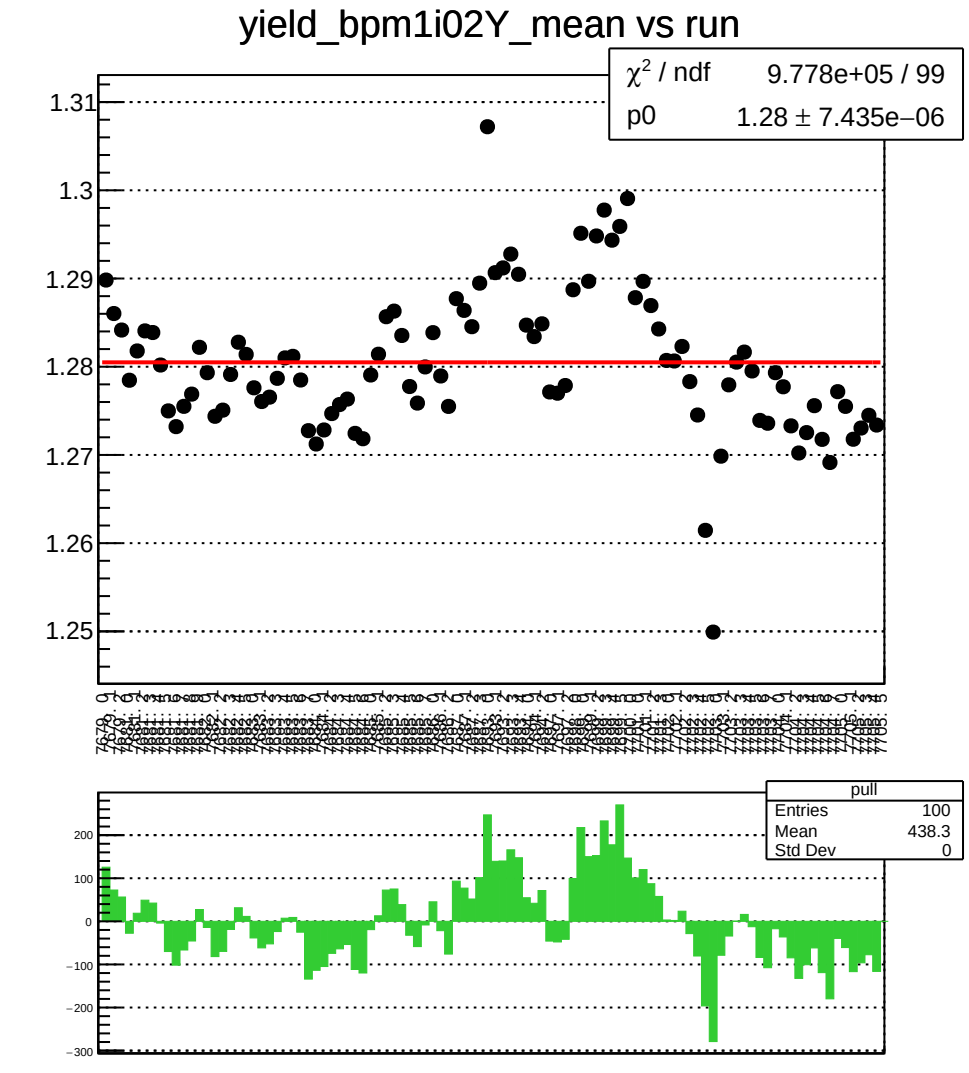

yield_bpm0i07Y_rms vs run
χ^2 / ndf 1.968e+05 / 99
p0 0.001655 ± 1.259e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

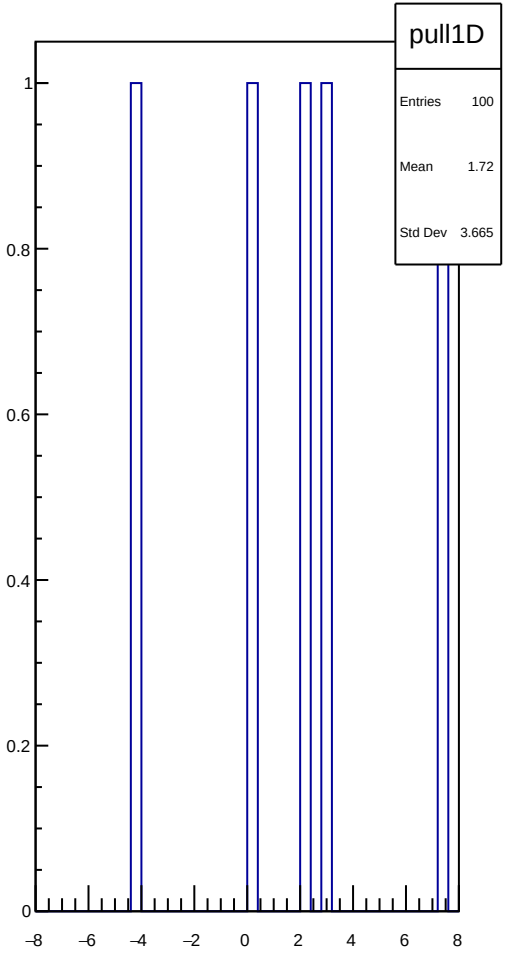

yield_bpm1i02X_mean vs run
χ² / ndf 3.398e+06 / 99
p0 0.1425 ± 9.866e−06
0.17
0.16
0.15
0.14
0.13
0.12
0.11
0.1
pull
Entries 100
Mean 1649
Std Dev 0
300
200
100
0
−100
−200
−300
−400

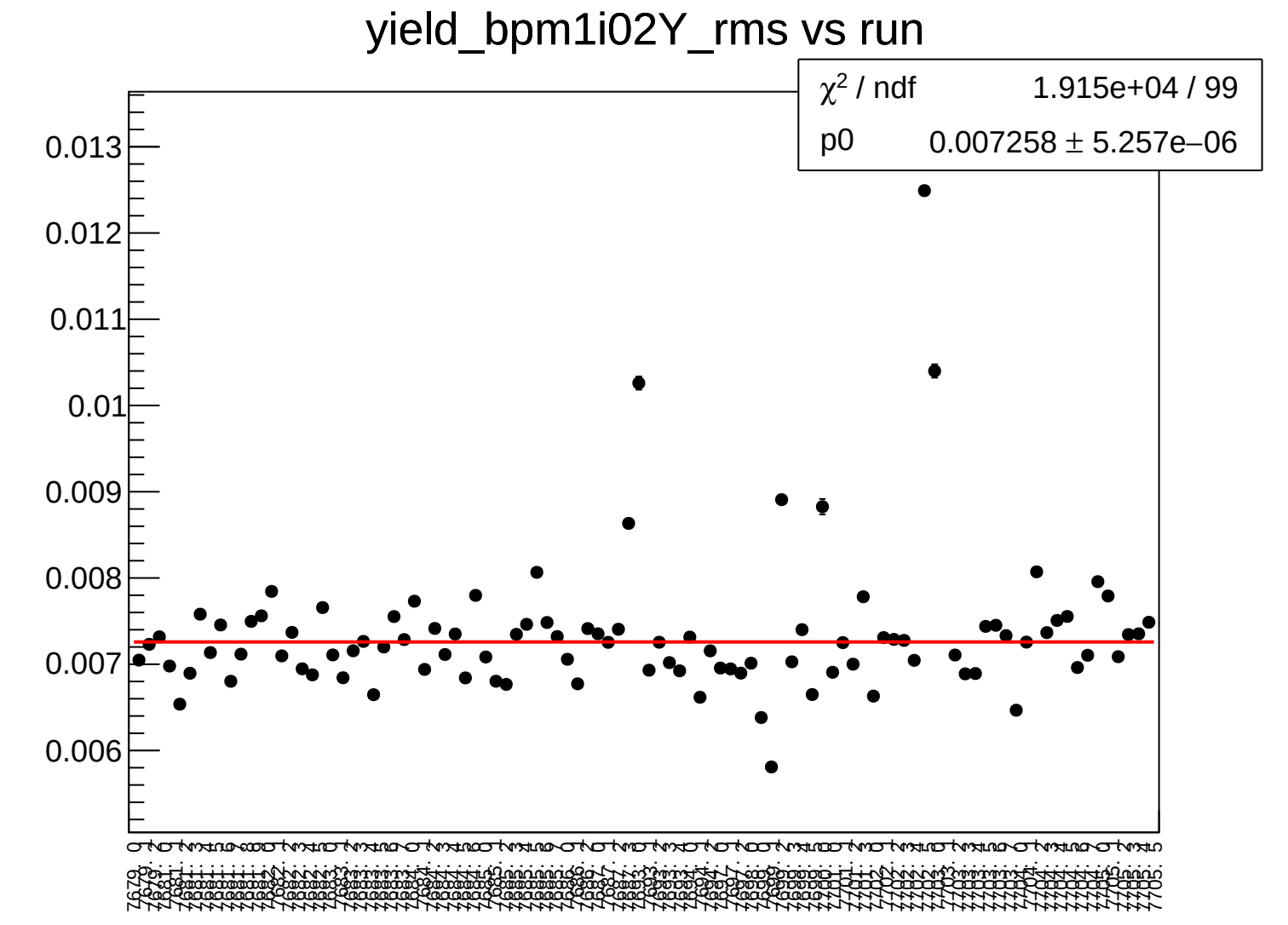

pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

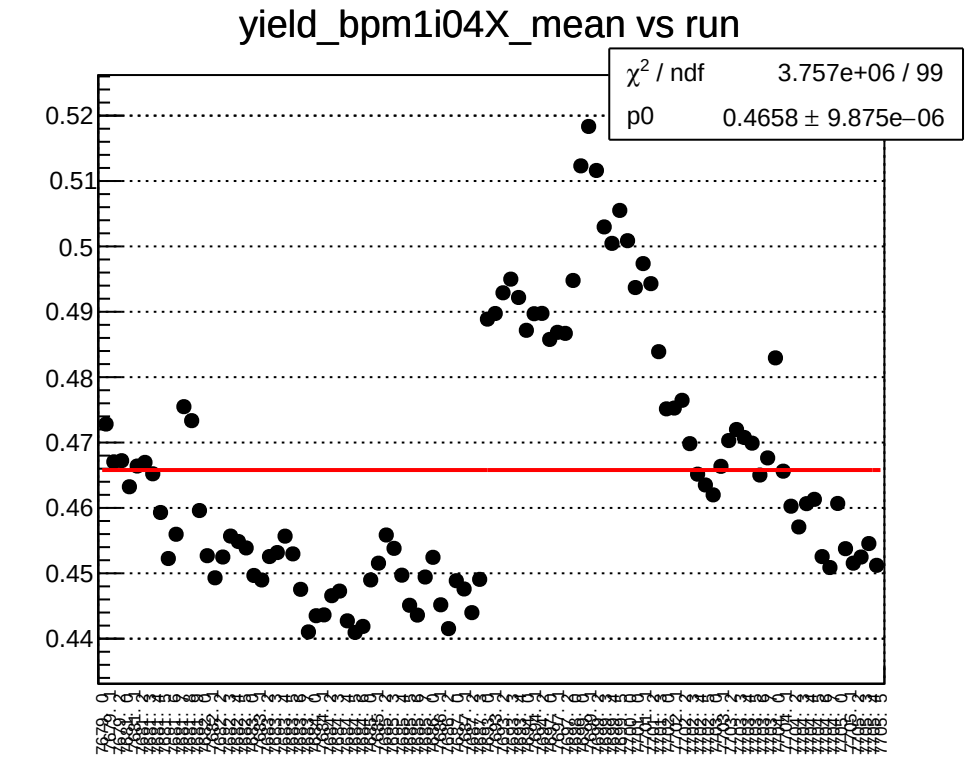
yield_bpm1i02X_rms vs run

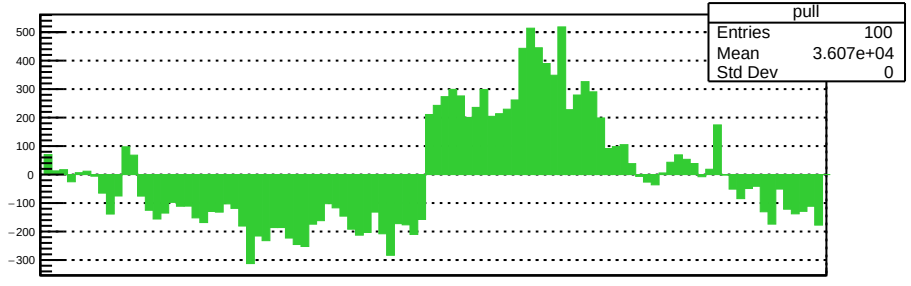


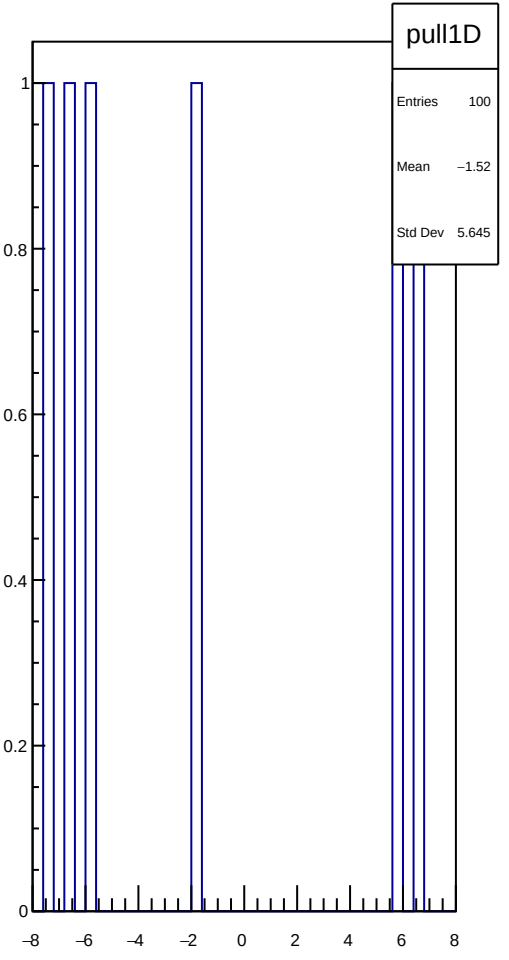

yield_bpm1i02Y_mean vs run
χ² / ndf 9.778e+05 / 99
p0 1.28 ± 7.435e−06
1.31
1.3
1.29
1.28
1.27
1.26
1.25
pull
Entries 100
Mean 438.3
Std Dev 0
200
100
0
−100
−200
−300

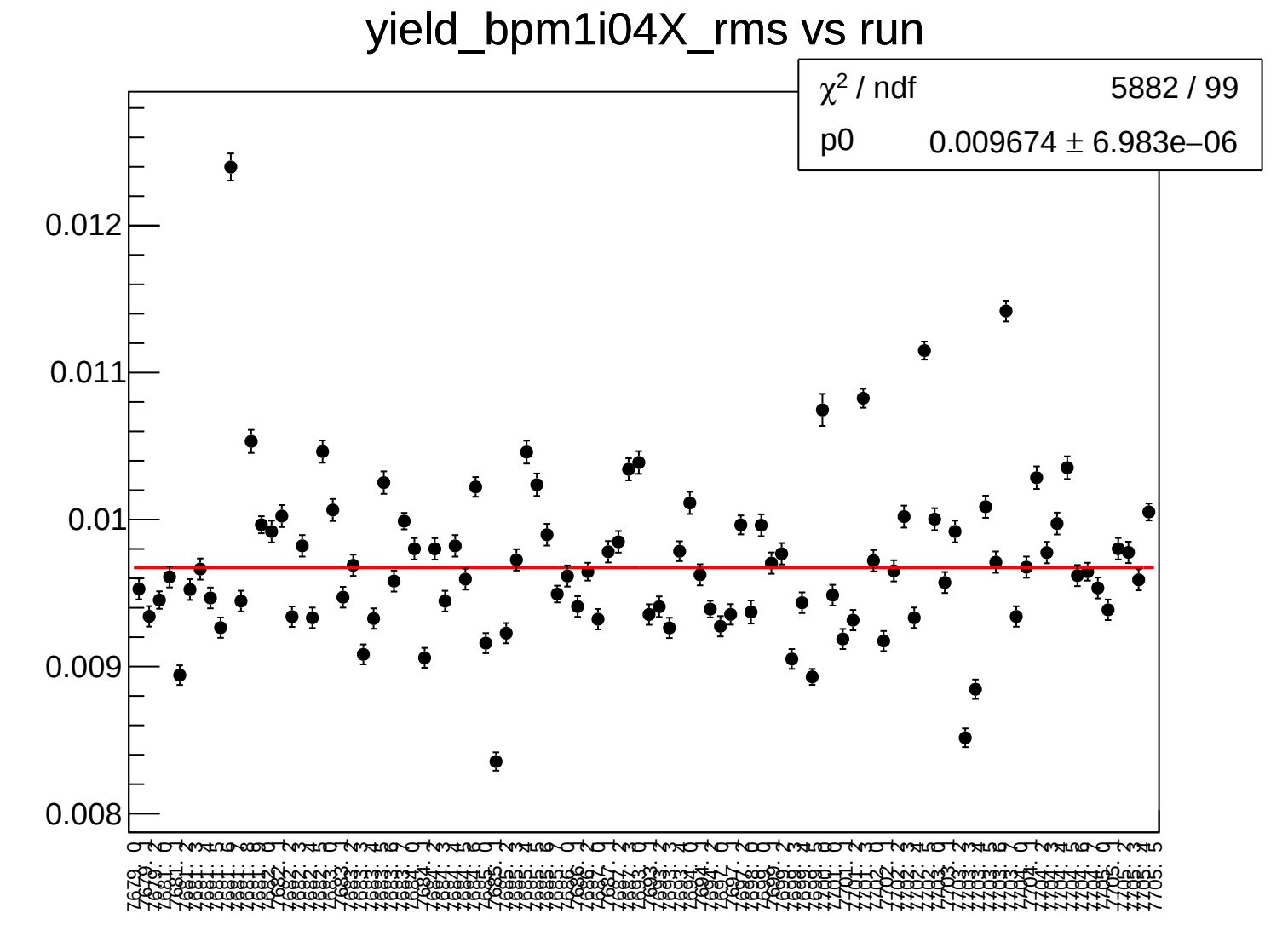

pull1D
Entries 100
Mean 1.72
Std Dev 3.665
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

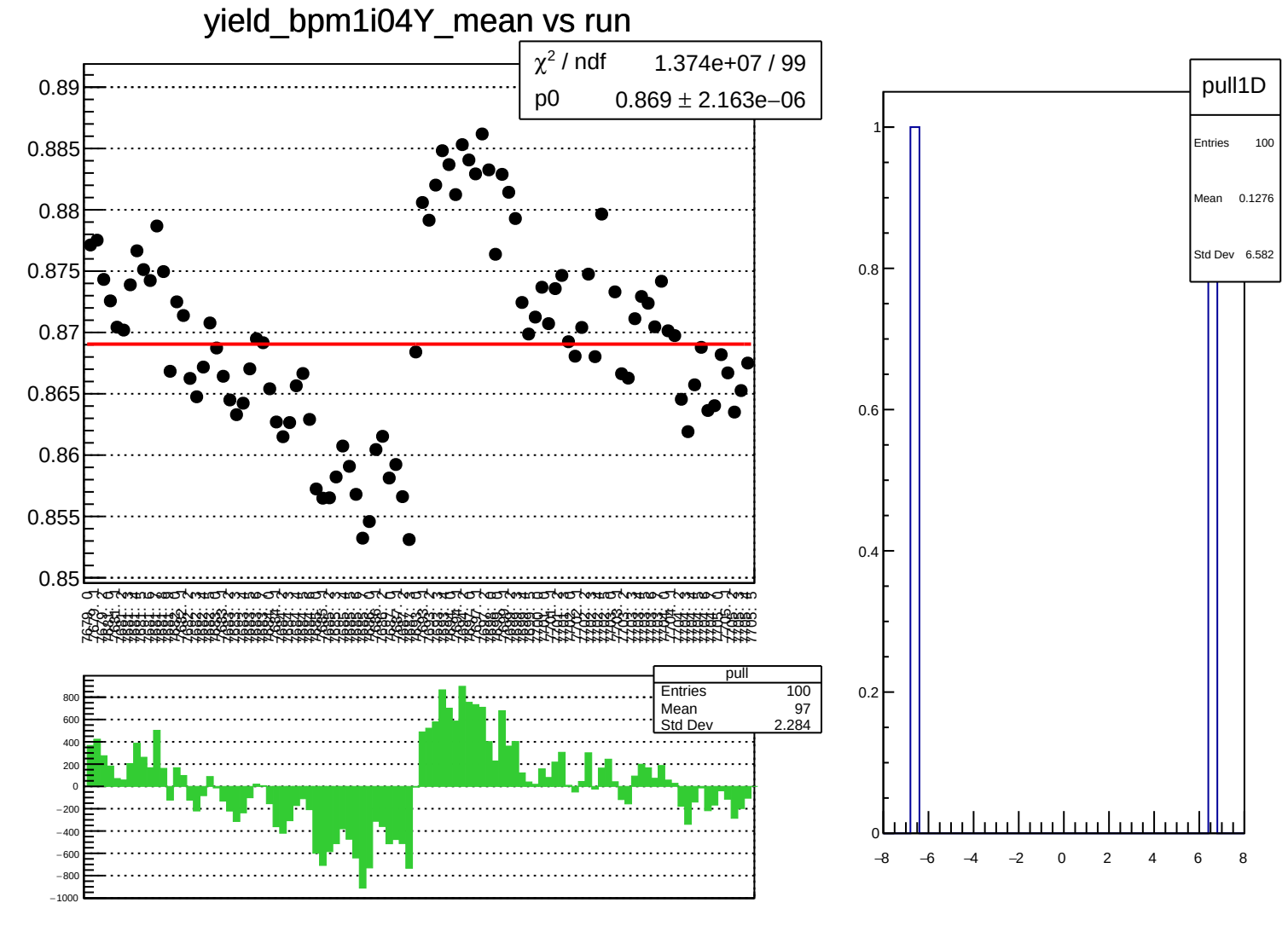

yield_bpm1i02Y_rms vs run
χ^2 / ndf 1.915e+04 / 99
p0 0.007258 ± 5.257e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

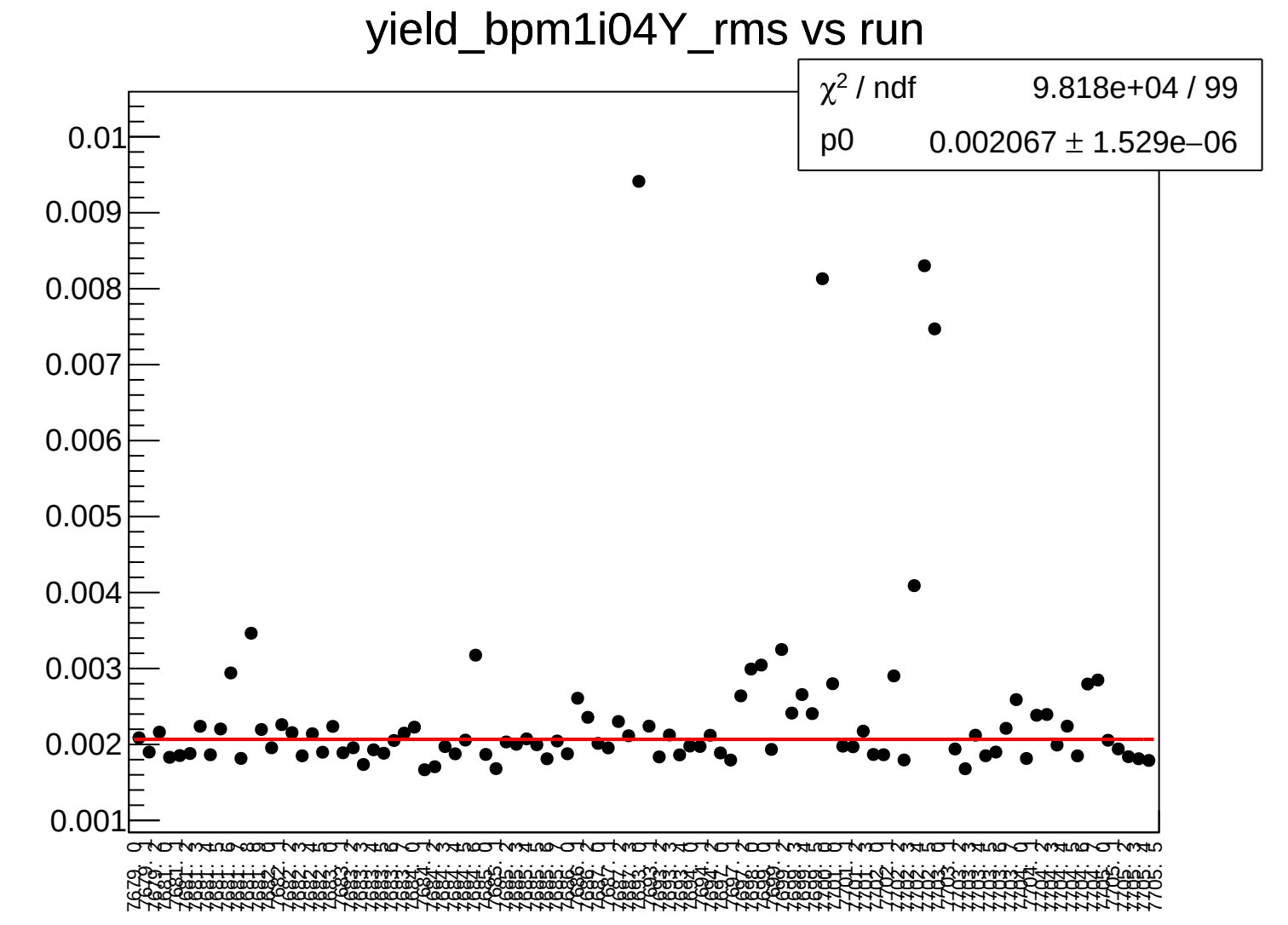

yield_bpm1i04X_mean vs run
χ² / ndf 3.757e+06 / 99
p0 0.4658 ± 9.875e−06
0.52
0.51
0.5
0.49
0.48
0.47
0.46
0.45
0.44

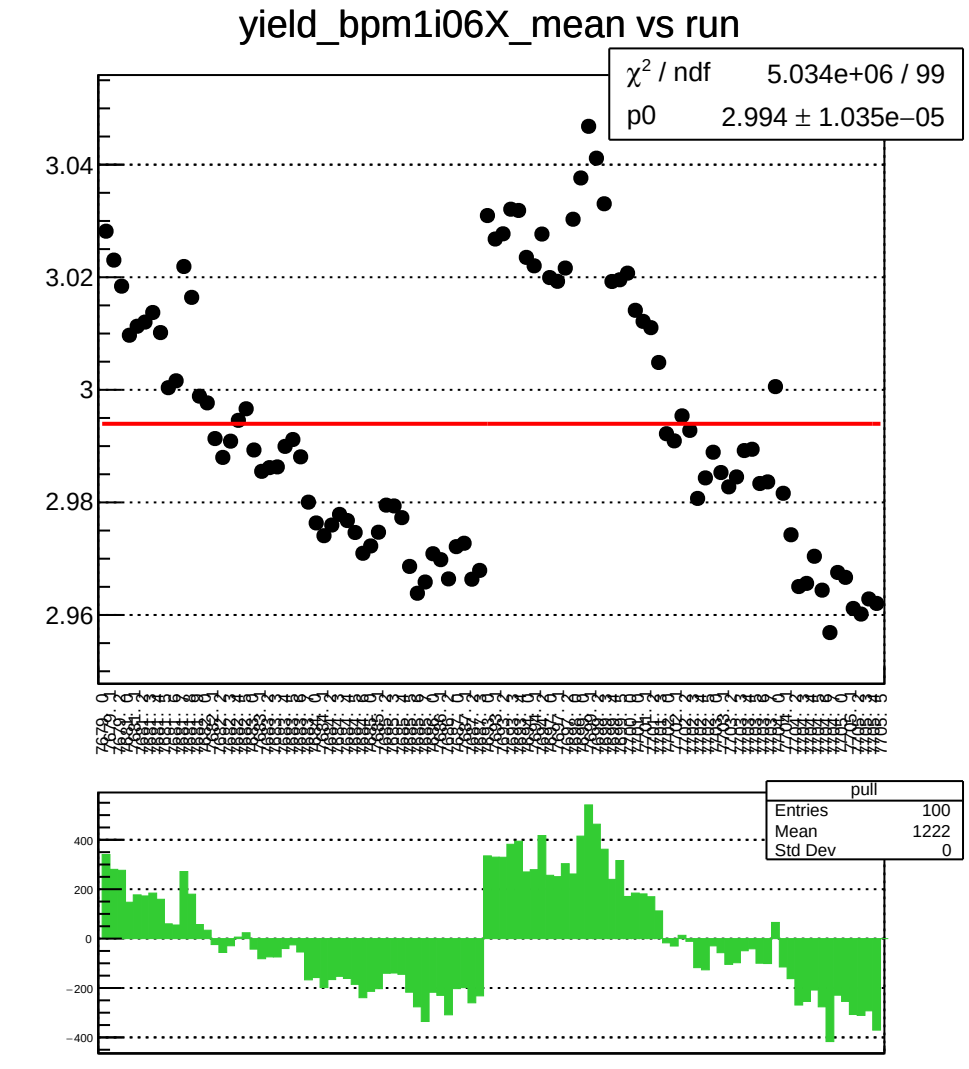

pull
Entries 100
Mean 3.607e+04
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

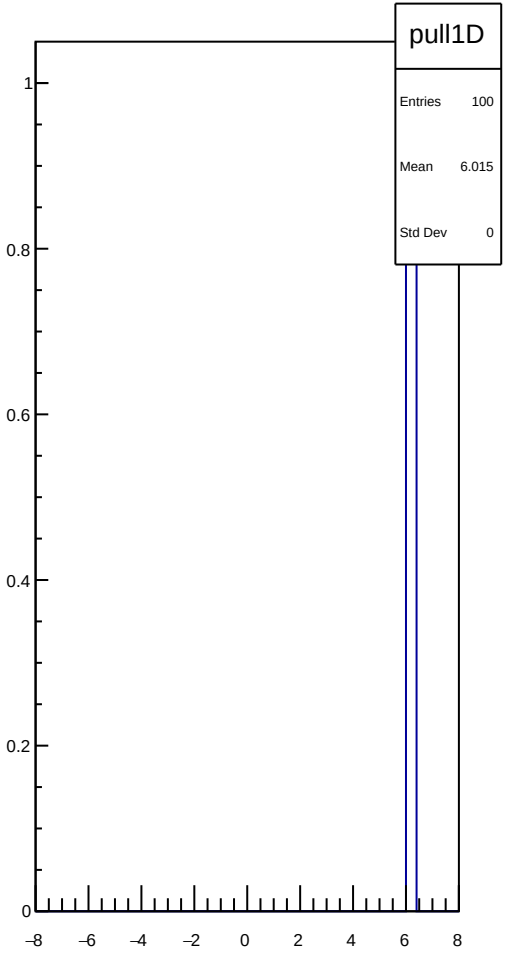

pull1D
Entries 100
Mean −1.52
Std Dev 5.645
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

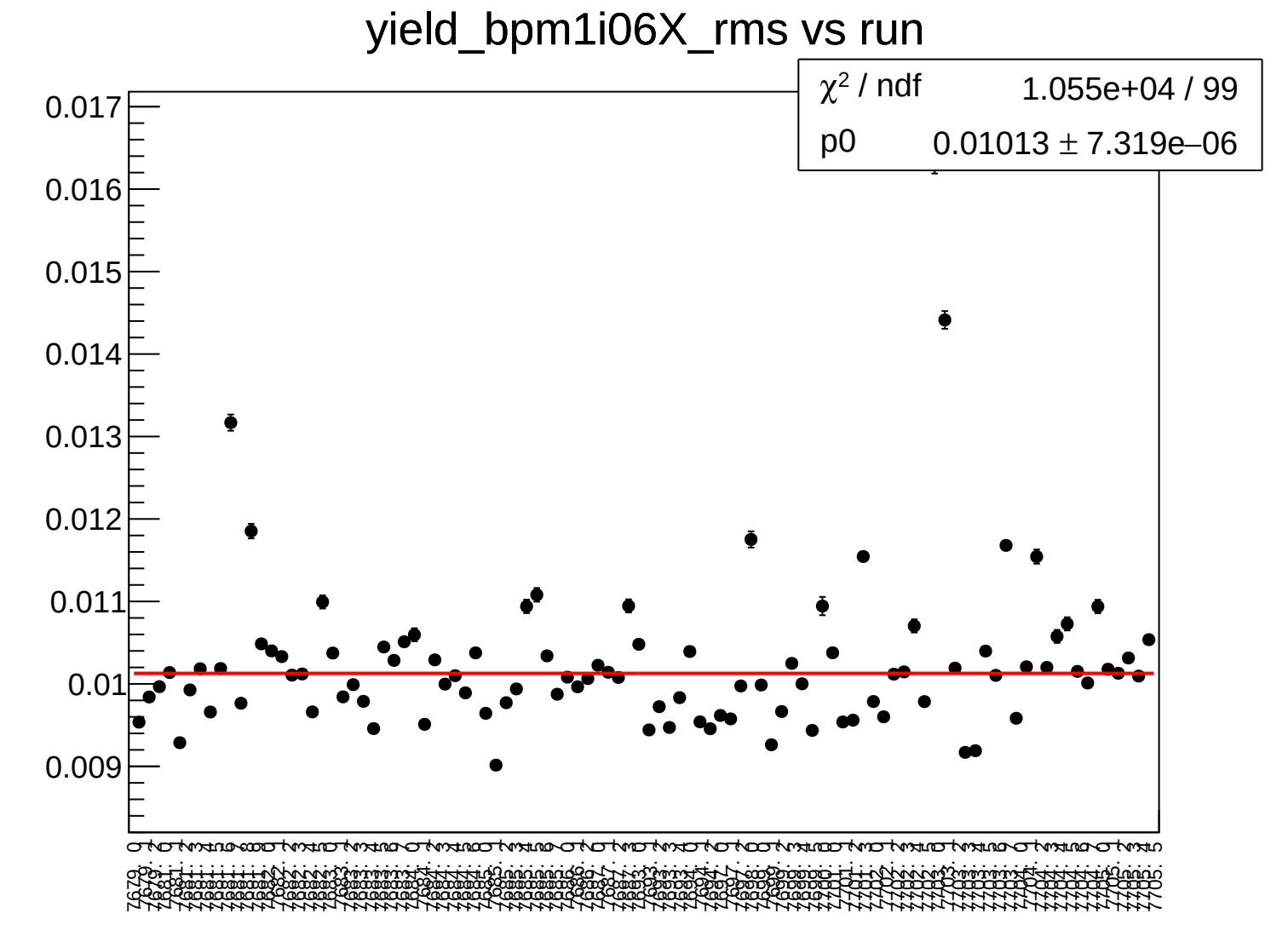

yield_bpm1i04X_rms vs run
χ^2 / ndf 5882 / 99
p0 0.009674 ± 6.983e−06
0.012
0.011
0.01
0.009
0.008

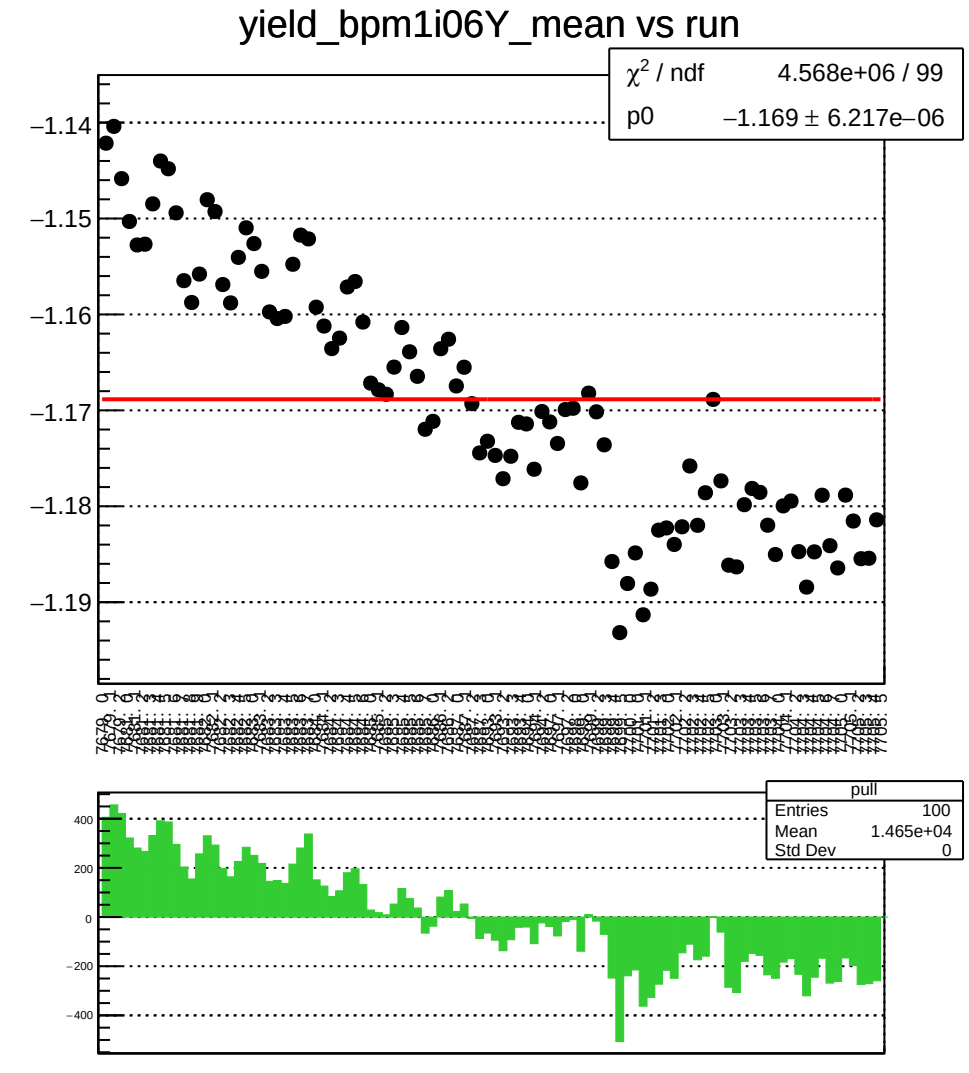

yield_bpm1i04Y_mean vs run
χ² / ndf 1.374e+07 / 99
p0 0.869 ± 2.163e−06
pull
Entries 100
Mean 97
Std Dev 2.284
pull1D
Entries 100
Mean 0.1276
Std Dev 6.582

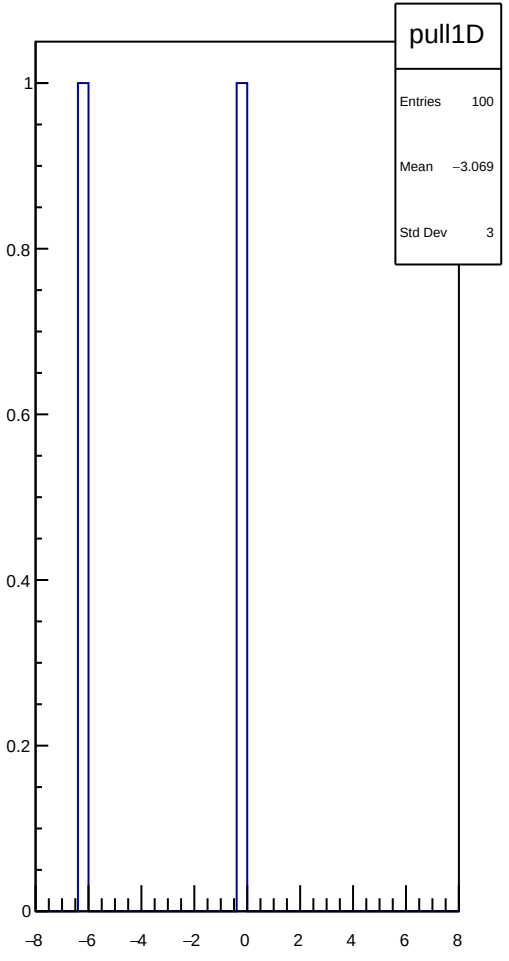

yield_bpm1i04Y_rms vs run
χ^2 / ndf 9.818e+04 / 99
p0 0.002067 ± 1.529e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

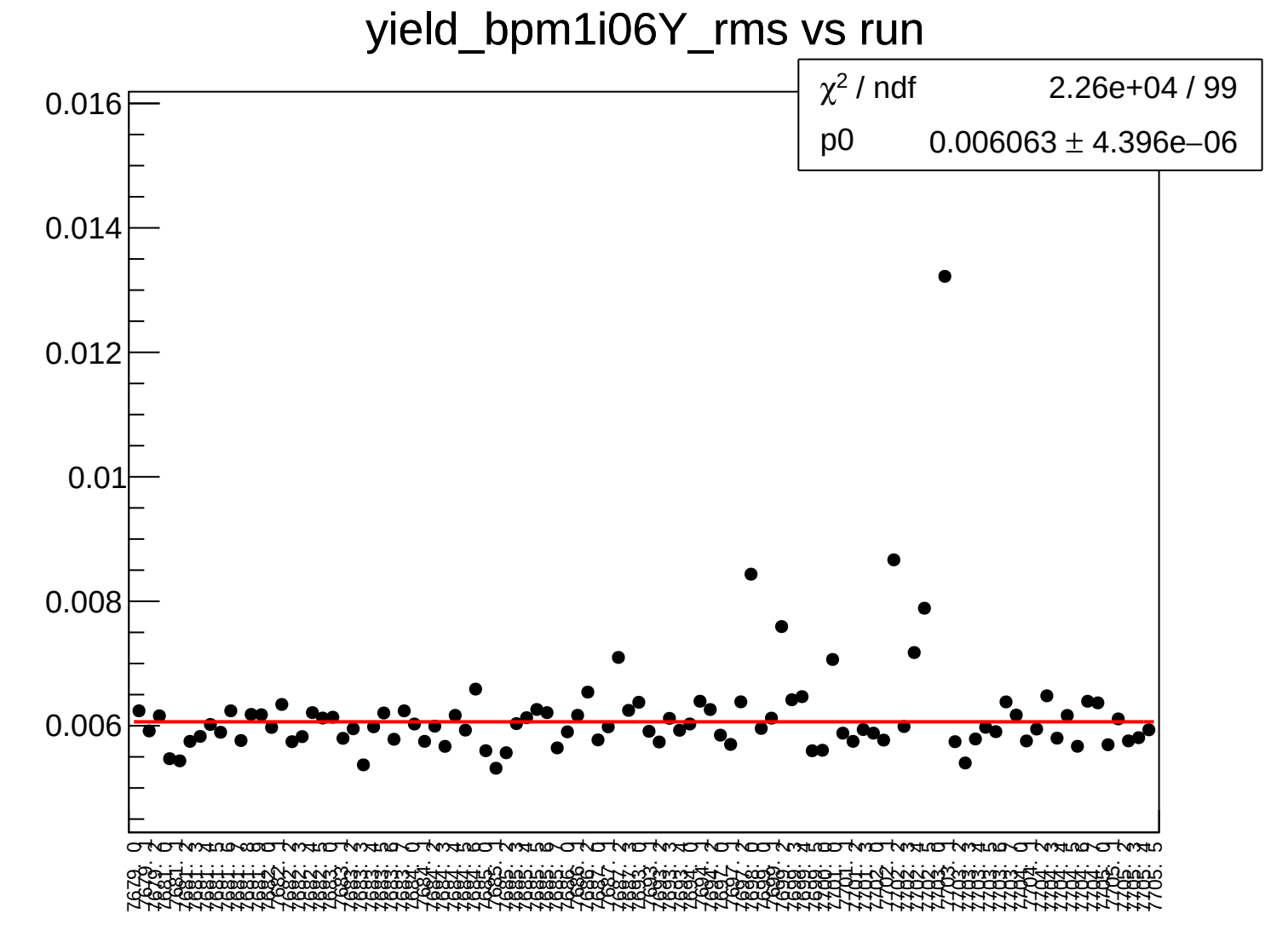

yield_bpm1i06X_mean vs run
χ² / ndf 5.034e+06 / 99
p0 2.994 ± 1.035e−05
3.04
3.02
3
2.98
2.96
pull
Entries 100
Mean 1222
Std Dev 0
400
200
0
−200
−400

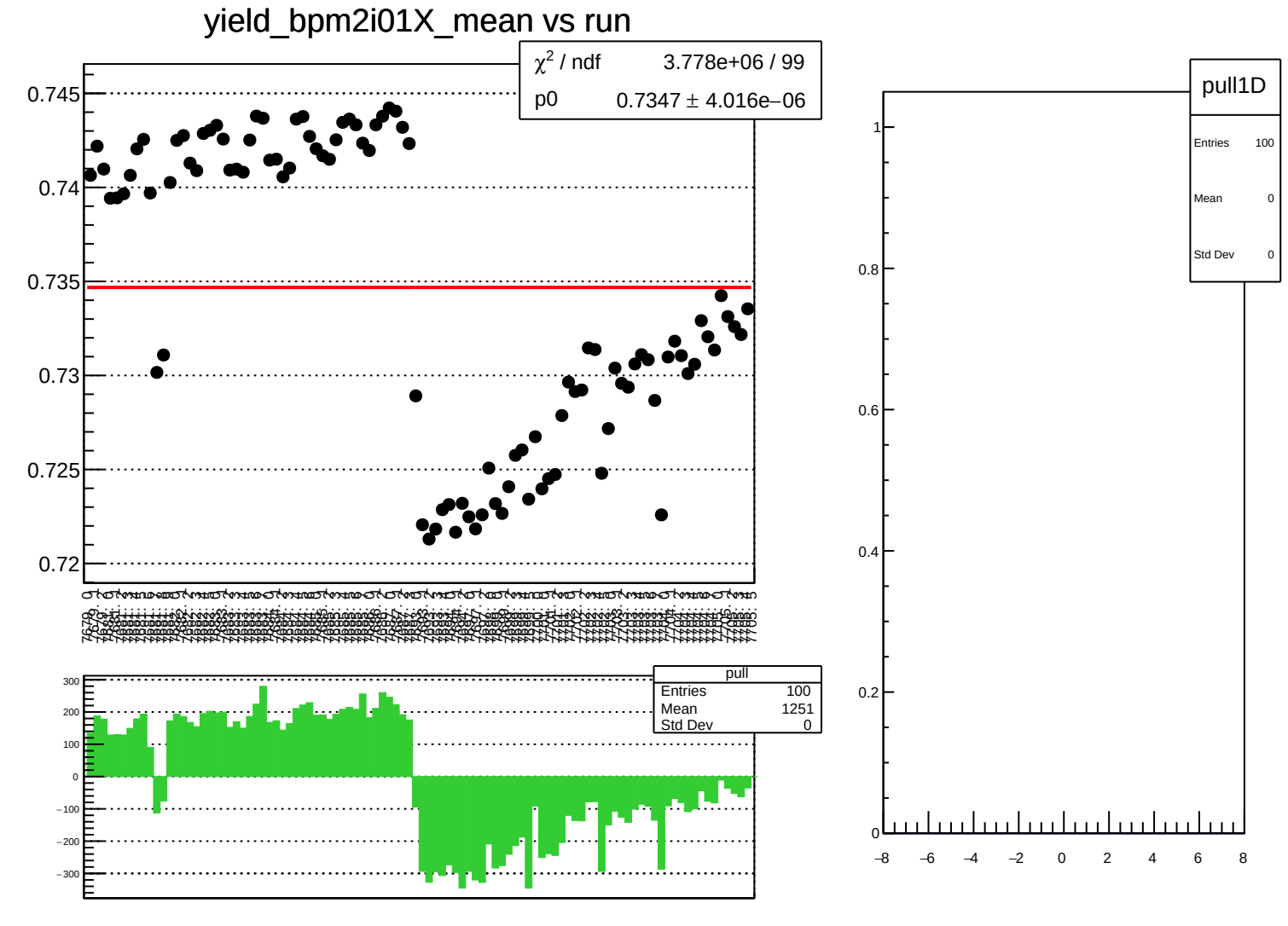

pull1D
Entries 100
Mean 6.015
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

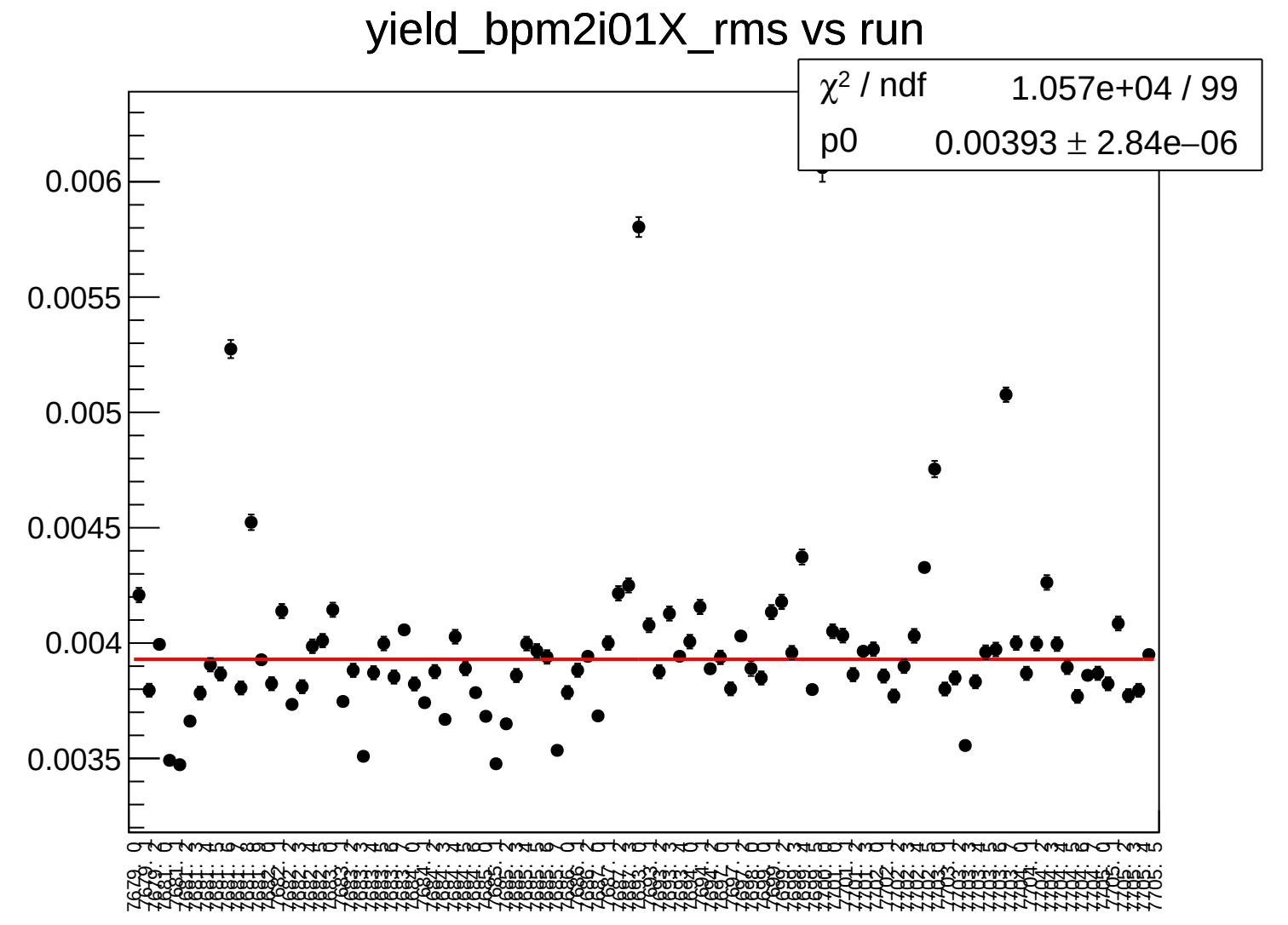

yield_bpm1i06X_rms vs run
χ² / ndf 1.055e+04 / 99
p0 0.01013 ± 7.319e–06
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

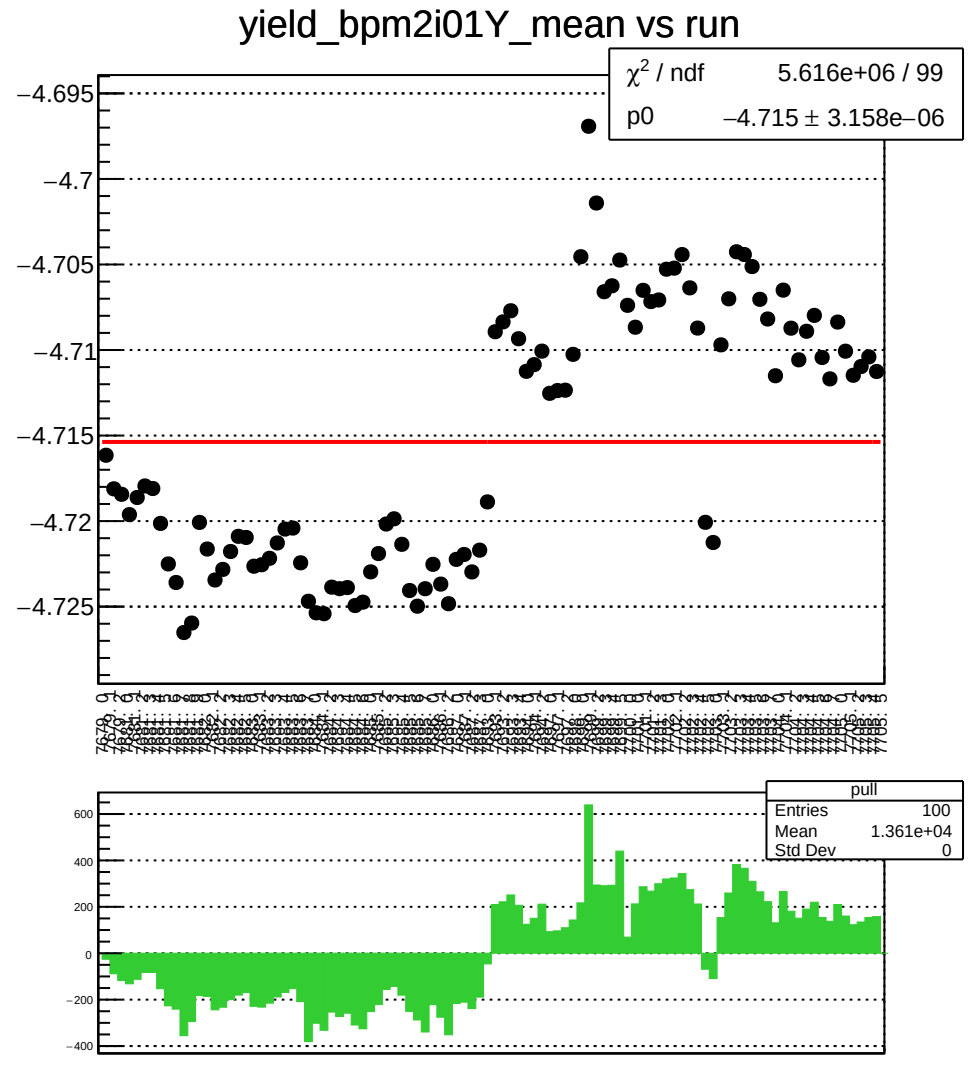

yield_bpm1i06Y_mean vs run
χ² / ndf 4.568e+06 / 99
p0 −1.169 ± 6.217e−06
−1.14
−1.15
−1.16
−1.17
−1.18
−1.19
pull
Entries 100
Mean 1.465e+04
Std Dev 0
400
200
0
−200
−400

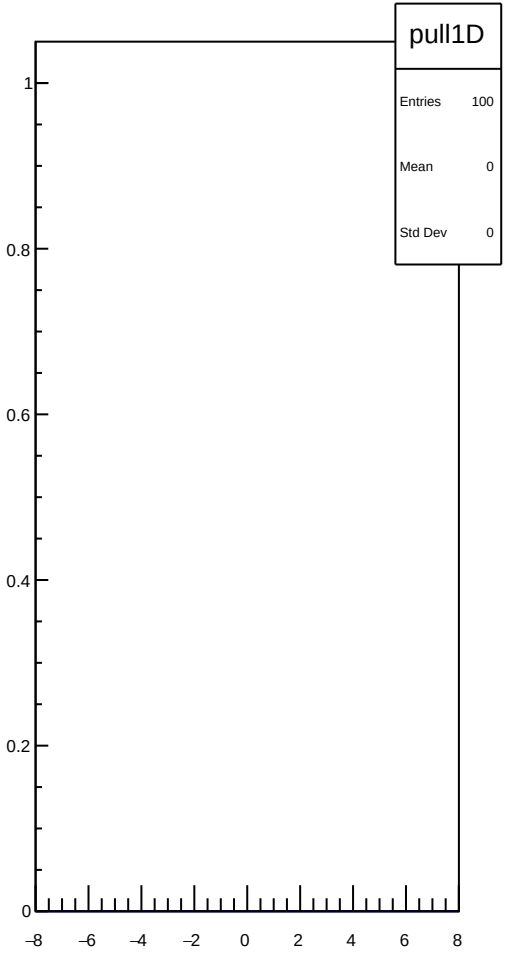

pull1D
Entries 100
Mean −3.069
Std Dev 3
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

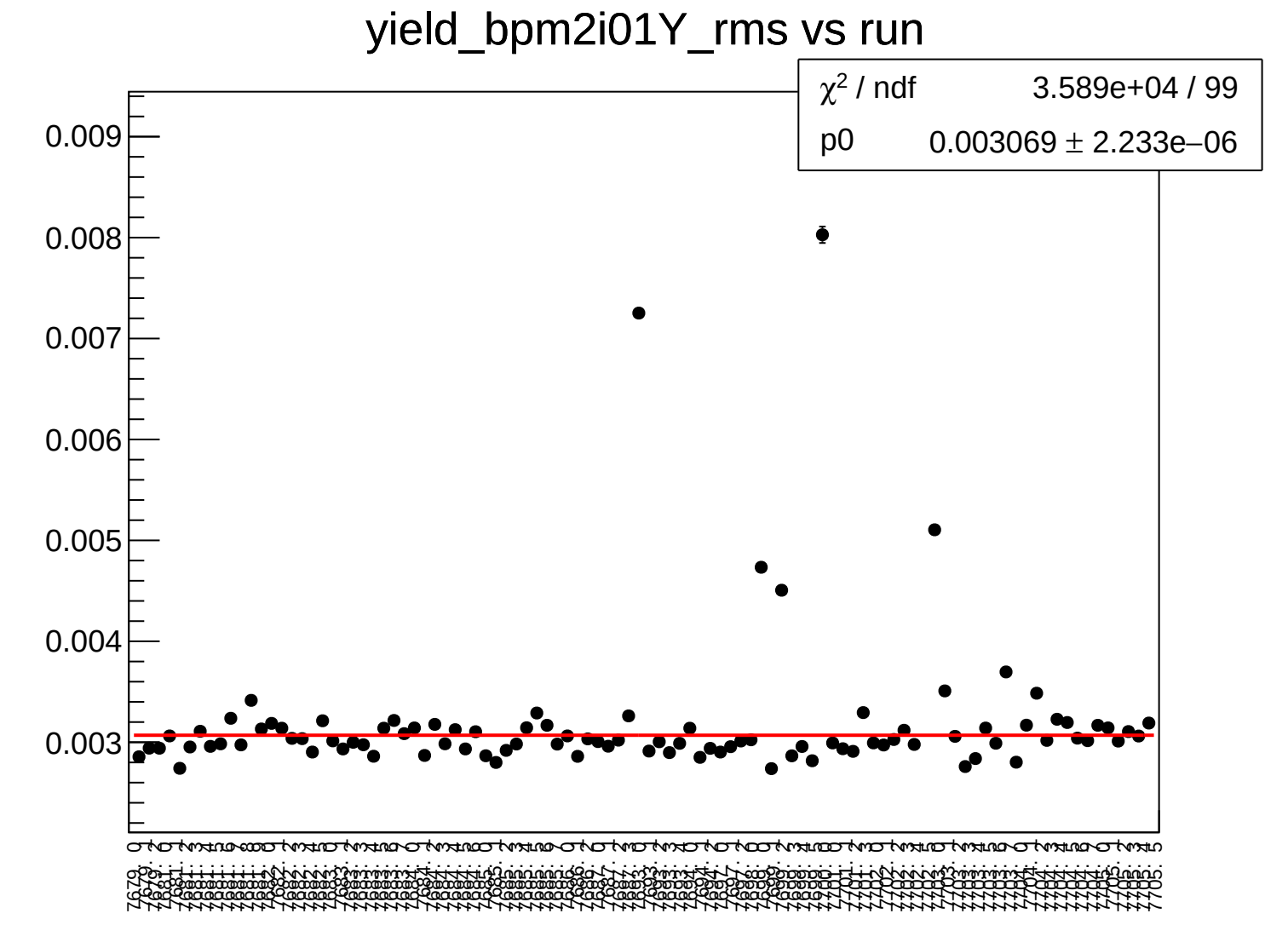

yield_bpm1i06Y_rms vs run
χ² / ndf 2.26e+04 / 99
p0 0.006063 ± 4.396e−06
0.016
0.014
0.012
0.01
0.008
0.006

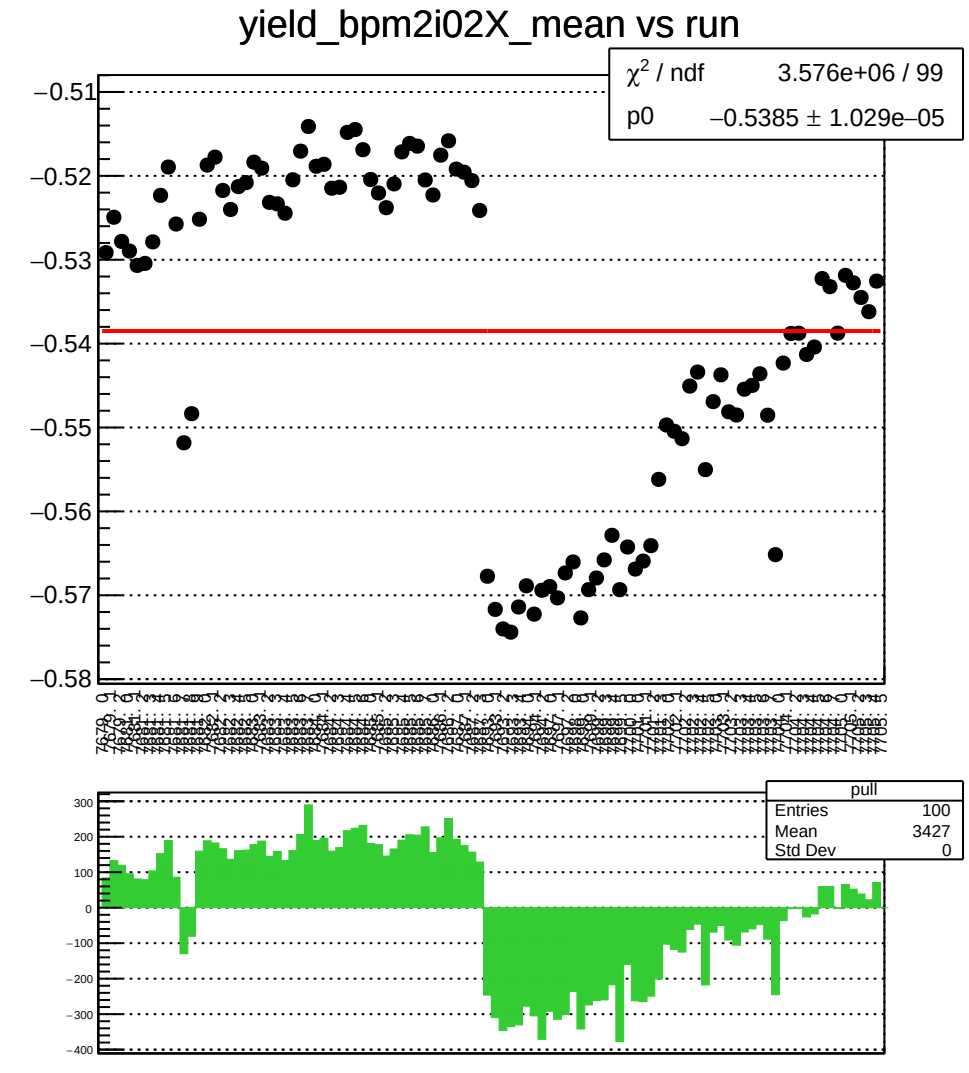

yield_bpm2i01X_mean vs run
χ² / ndf 3.778e+06 / 99
p0 0.7347 ± 4.016e−06
0.745
0.74
0.735
0.73
0.725
0.72
pull
Entries 100
Mean 1251
Std Dev 0
300
200
100
0
−100
−200
−300
pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

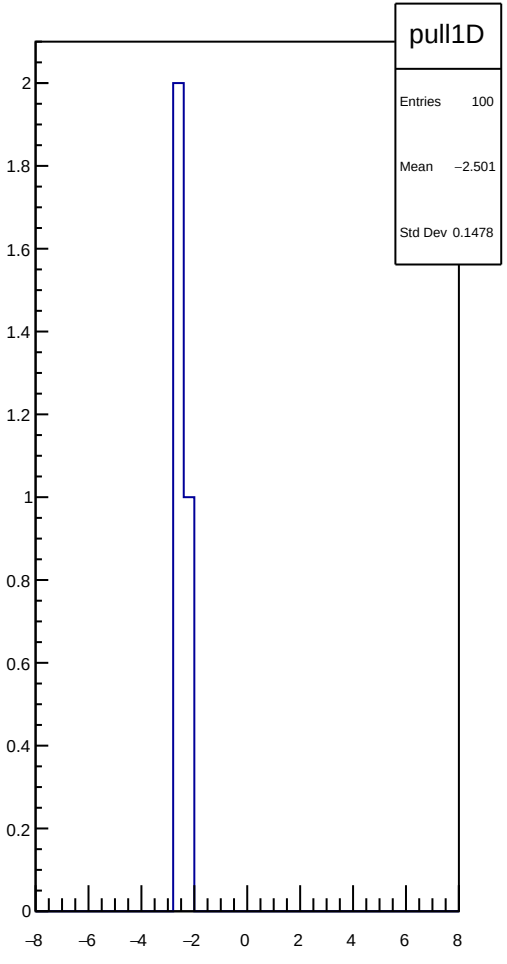

yield_bpm2i01X_rms vs run
χ² / ndf 1.057e+04 / 99
p0 0.00393 ± 2.84e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035


yield_bpm2i01Y_mean vs run
χ² / ndf 5.616e+06 / 99
p0 −4.715 ± 3.158e−06
−4.695
−4.7
−4.705
−4.71
−4.715
−4.72
−4.725
pull
Entries 100
Mean 1.361e+04
Std Dev 0
600
400
200
0
−200
−400

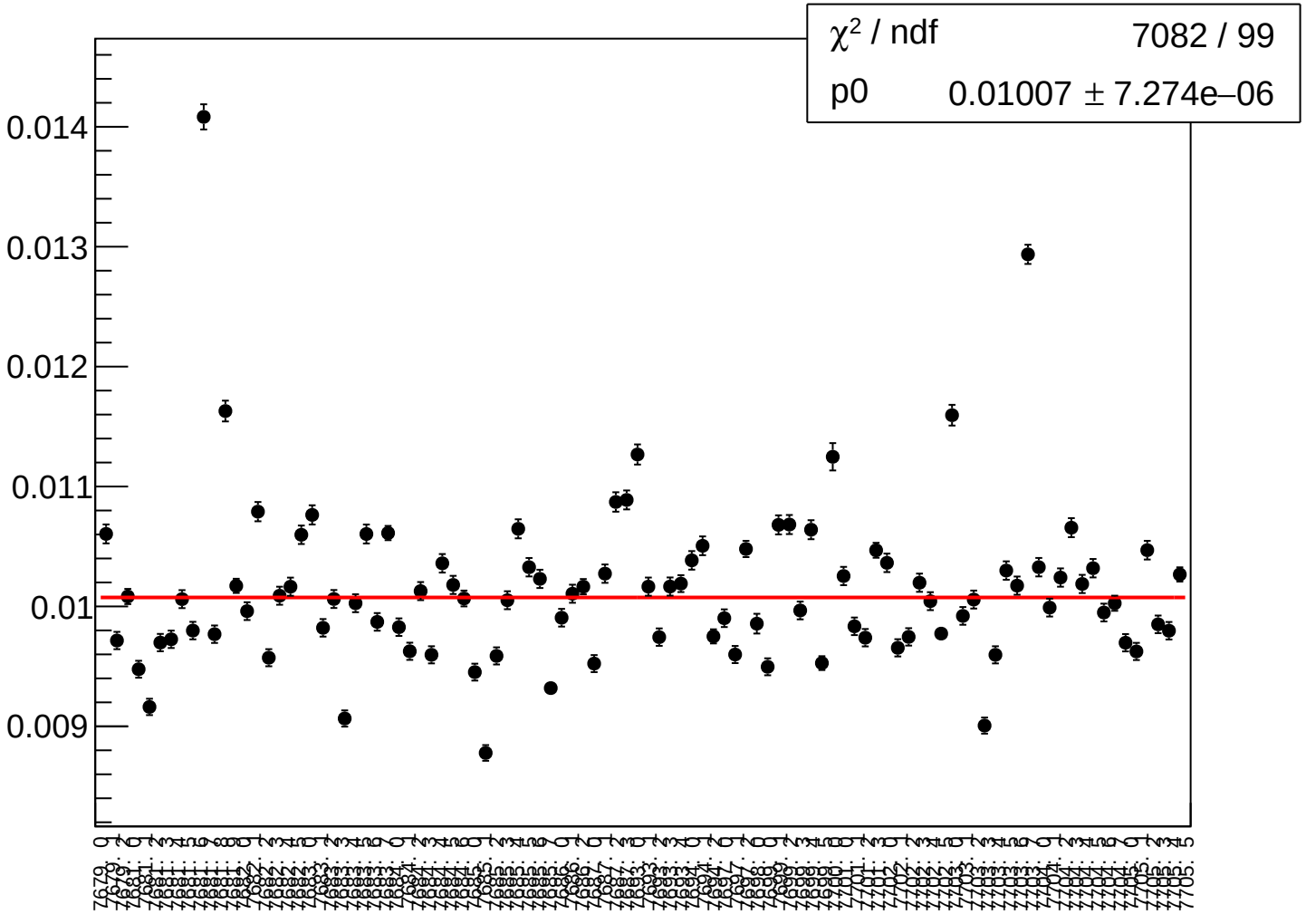

pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

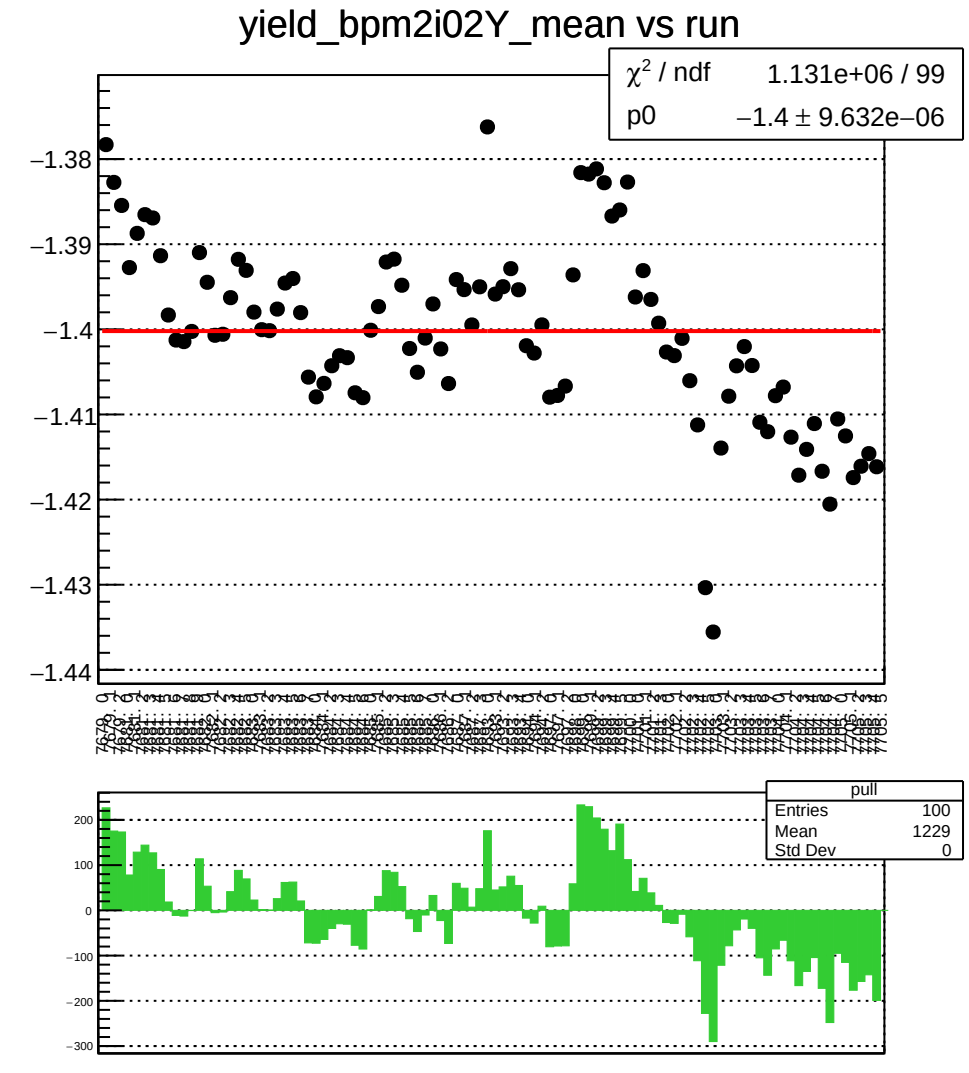

yield_bpm2i01Y_rms vs run
χ² / ndf 3.589e+04 / 99
p0 0.003069 ± 2.233e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

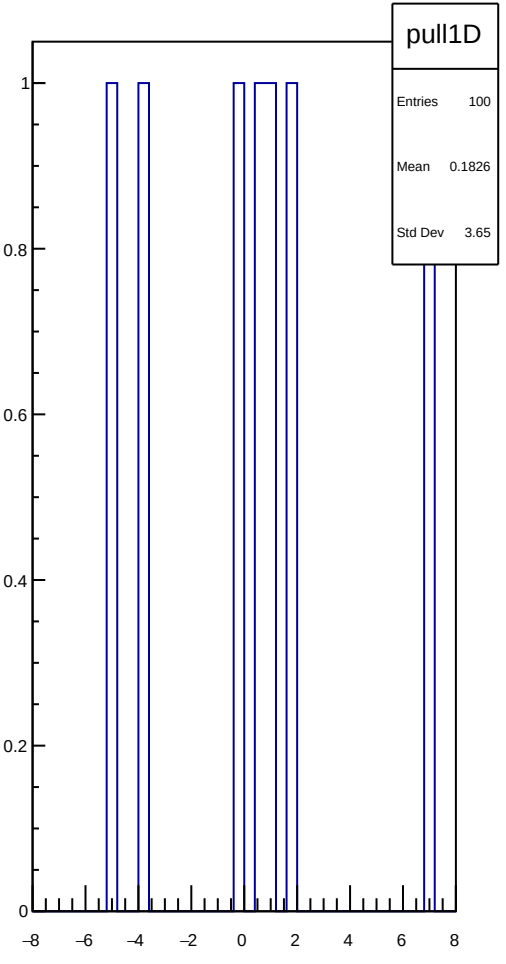

yield_bpm2i02X_mean vs run
χ² / ndf 3.576e+06 / 99
p0 −0.5385 ± 1.029e−05
−0.51
−0.52
−0.53
−0.54
−0.55
−0.56
−0.57
−0.58
pull
Entries 100
Mean 3427
Std Dev 0
300
200
100
0
−100
−200
−300
−400

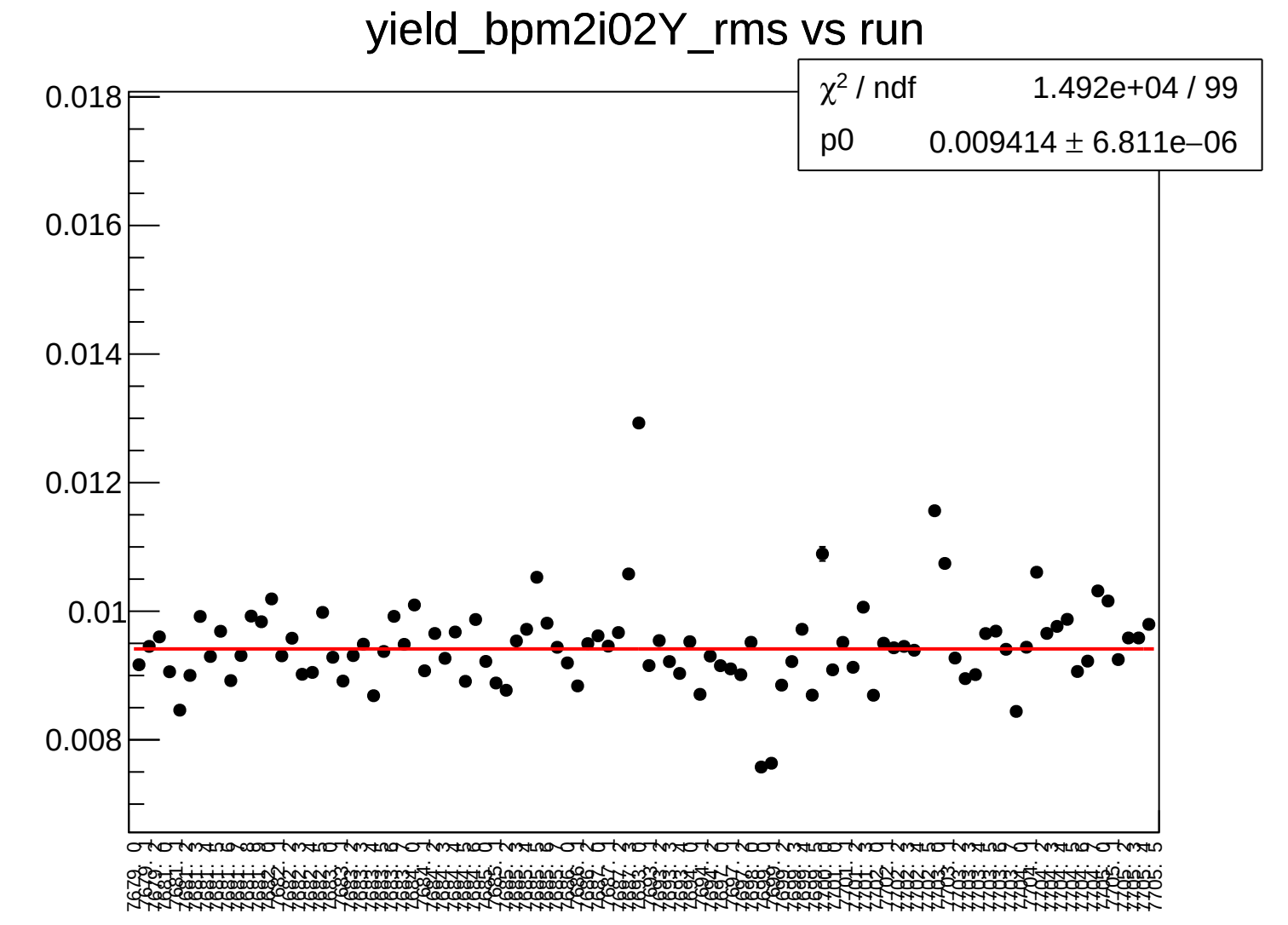

pull1D
Entries 100
Mean −2.501
Std Dev 0.1478
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

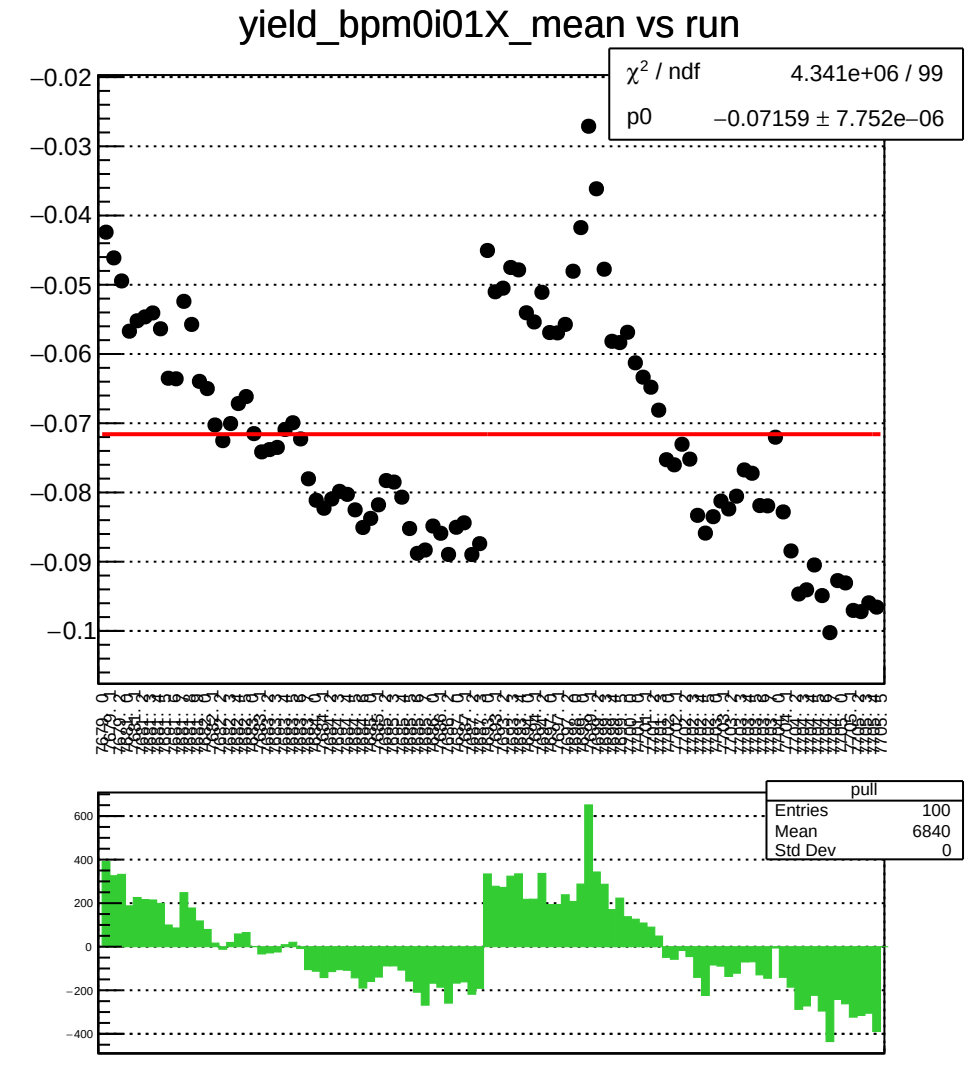
yield_bpm2i02X_rms vs run

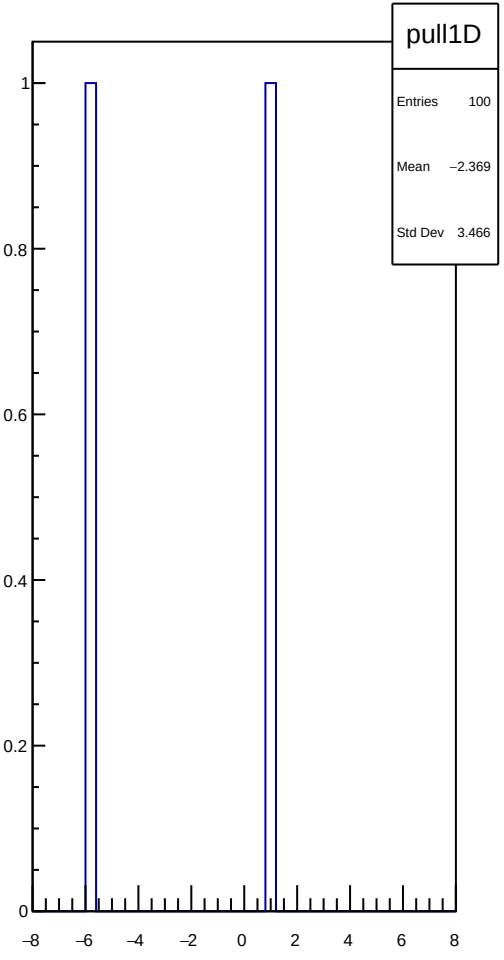


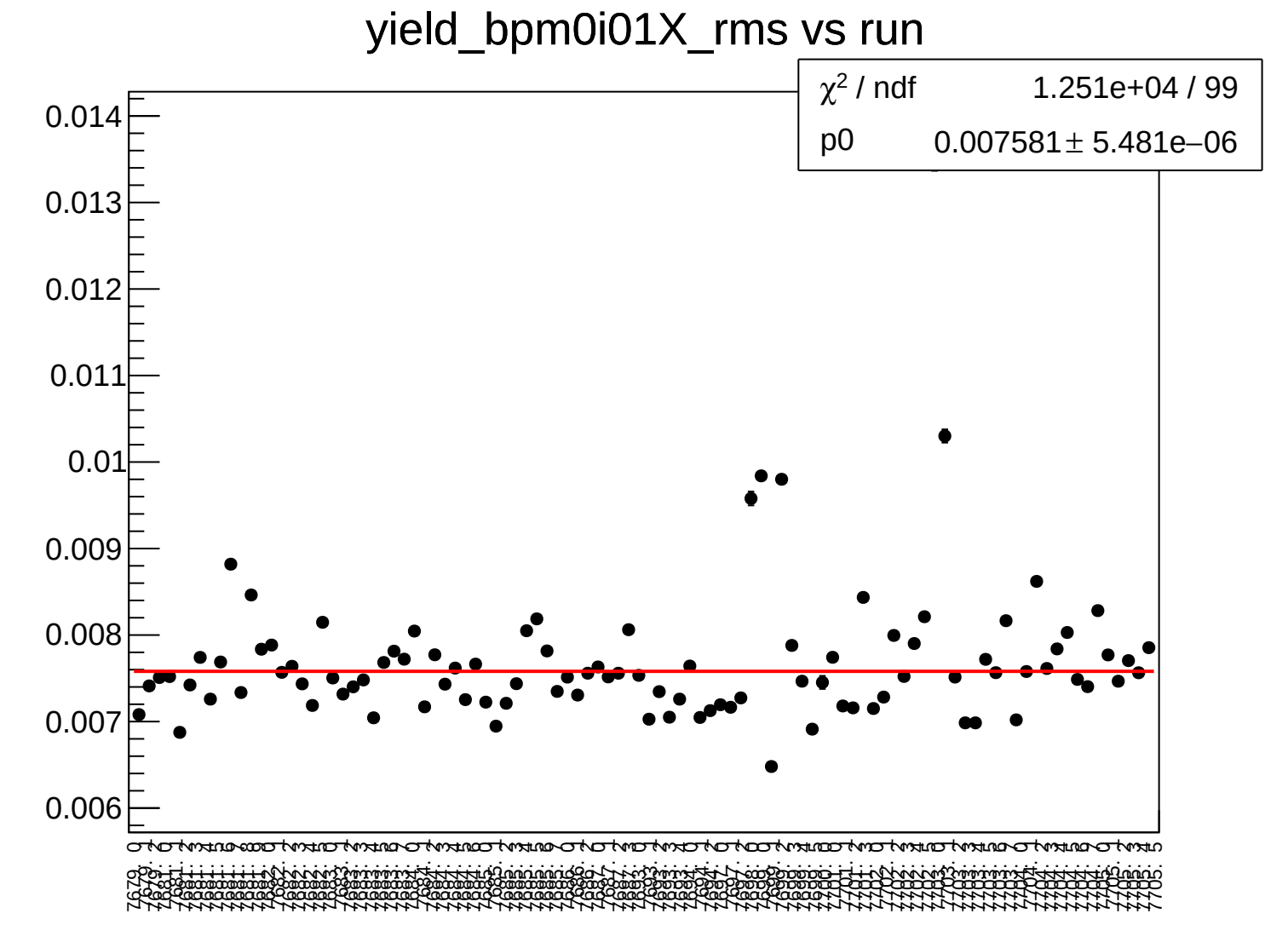

yield_bpm2i02Y_mean vs run
χ² / ndf 1.131e+06 / 99
p0 −1.4 ± 9.632e−06
−1.38
−1.39
−1.4
−1.41
−1.42
−1.43
−1.44
pull
Entries 100
Mean 1229
Std Dev 0
200
100
0
−100
−200
−300

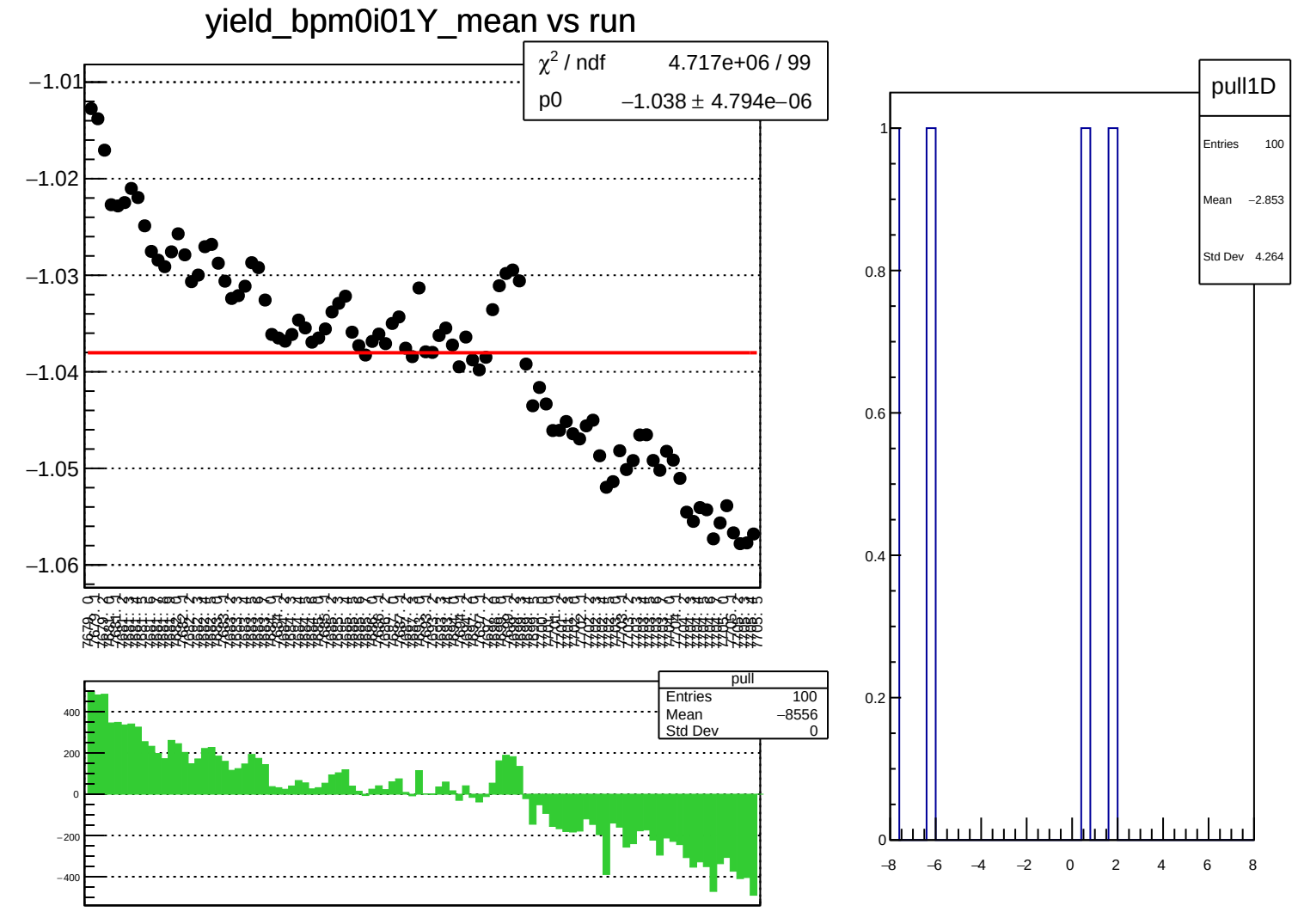

pull1D
Entries 100
Mean 0.1826
Std Dev 3.65
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

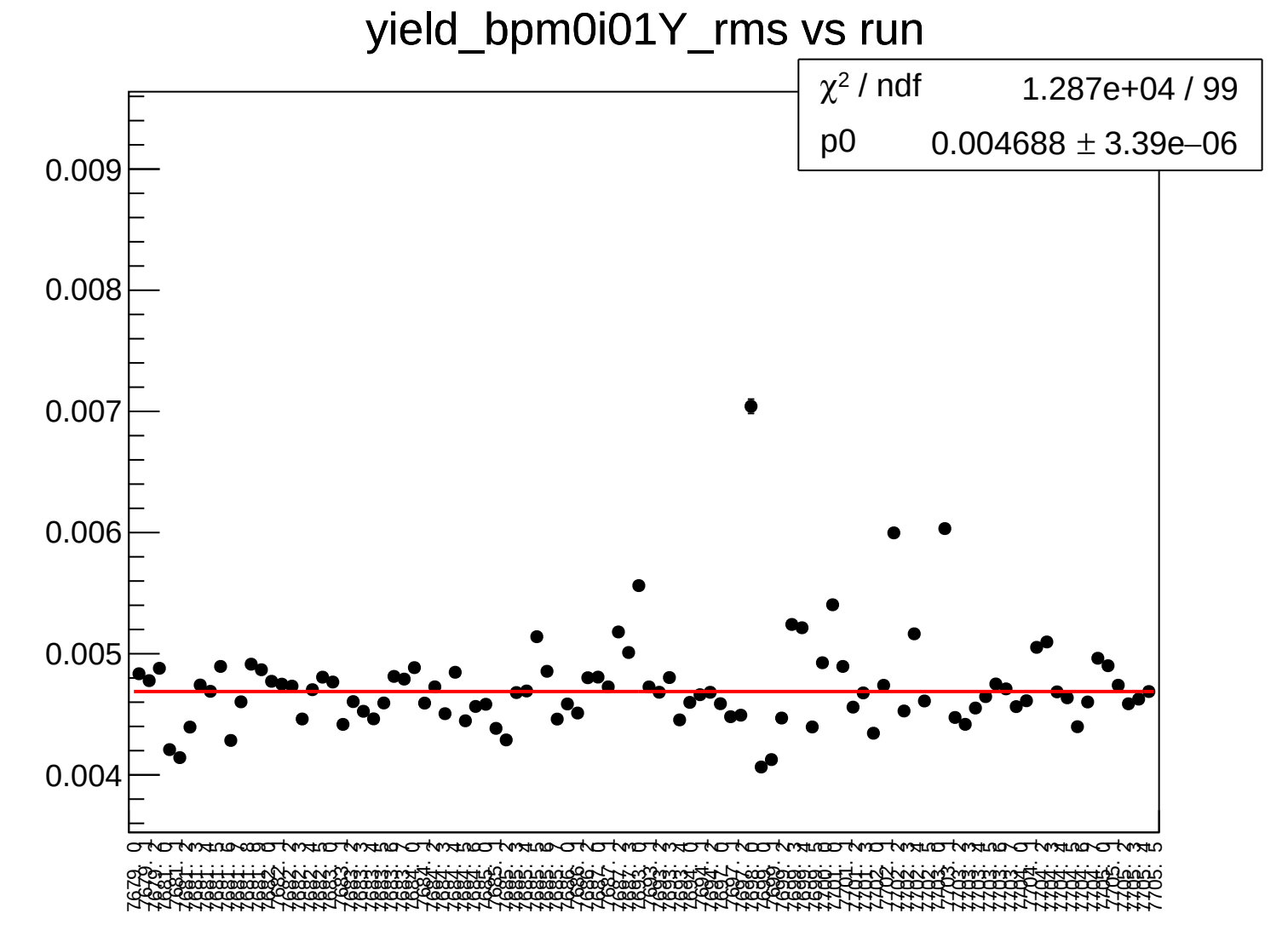

yield_bpm2i02Y_rms vs run
χ² / ndf 1.492e+04 / 99
p0 0.009414 ± 6.811e−06
0.018
0.016
0.014
0.012
0.01
0.008

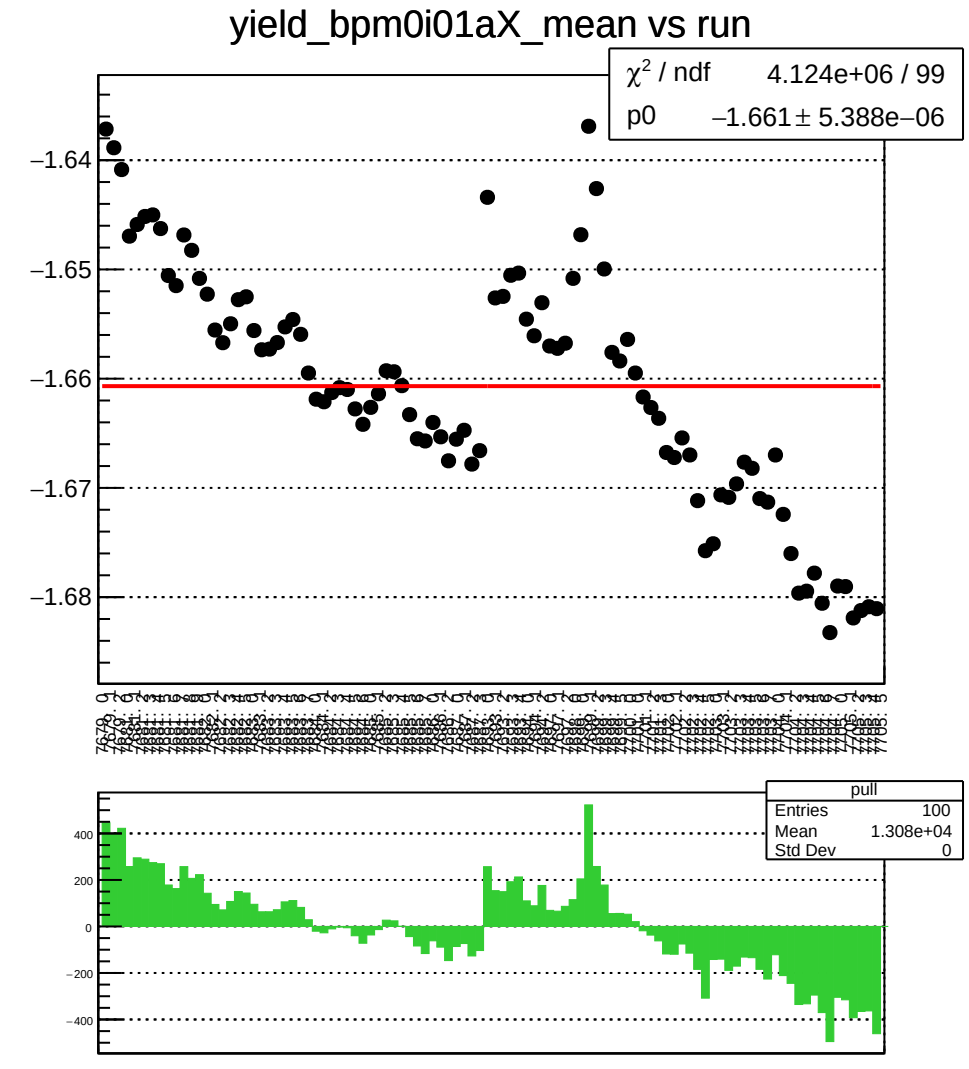

yield_bpm0i01X_mean vs run
χ² / ndf 4.341e+06 / 99
p0 −0.07159 ± 7.752e−06
−0.02
−0.03
−0.04
−0.05
−0.06
−0.07
−0.08
−0.09
−0.1
pull
Entries 100
Mean 6840
Std Dev 0
600
400
200
0
−200
−400

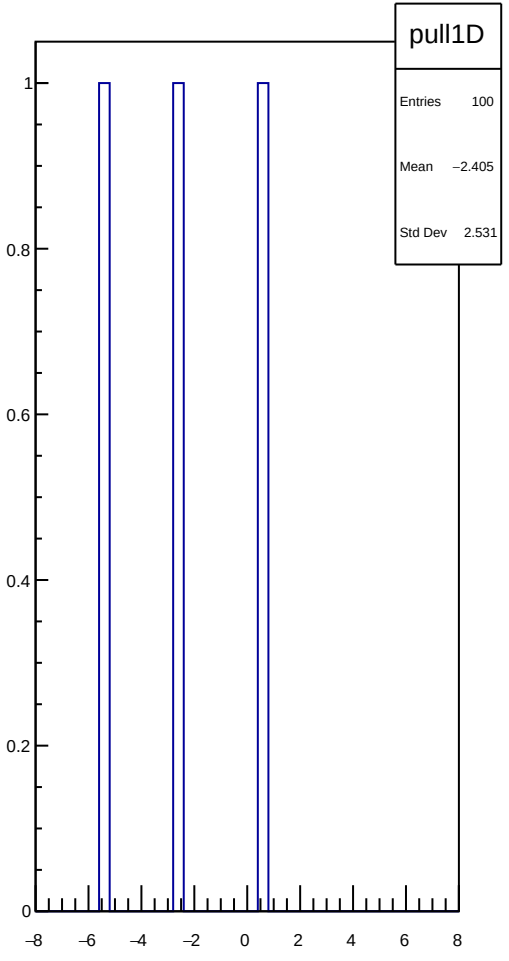

pull1D
Entries 100
Mean −2.369
Std Dev 3.466
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

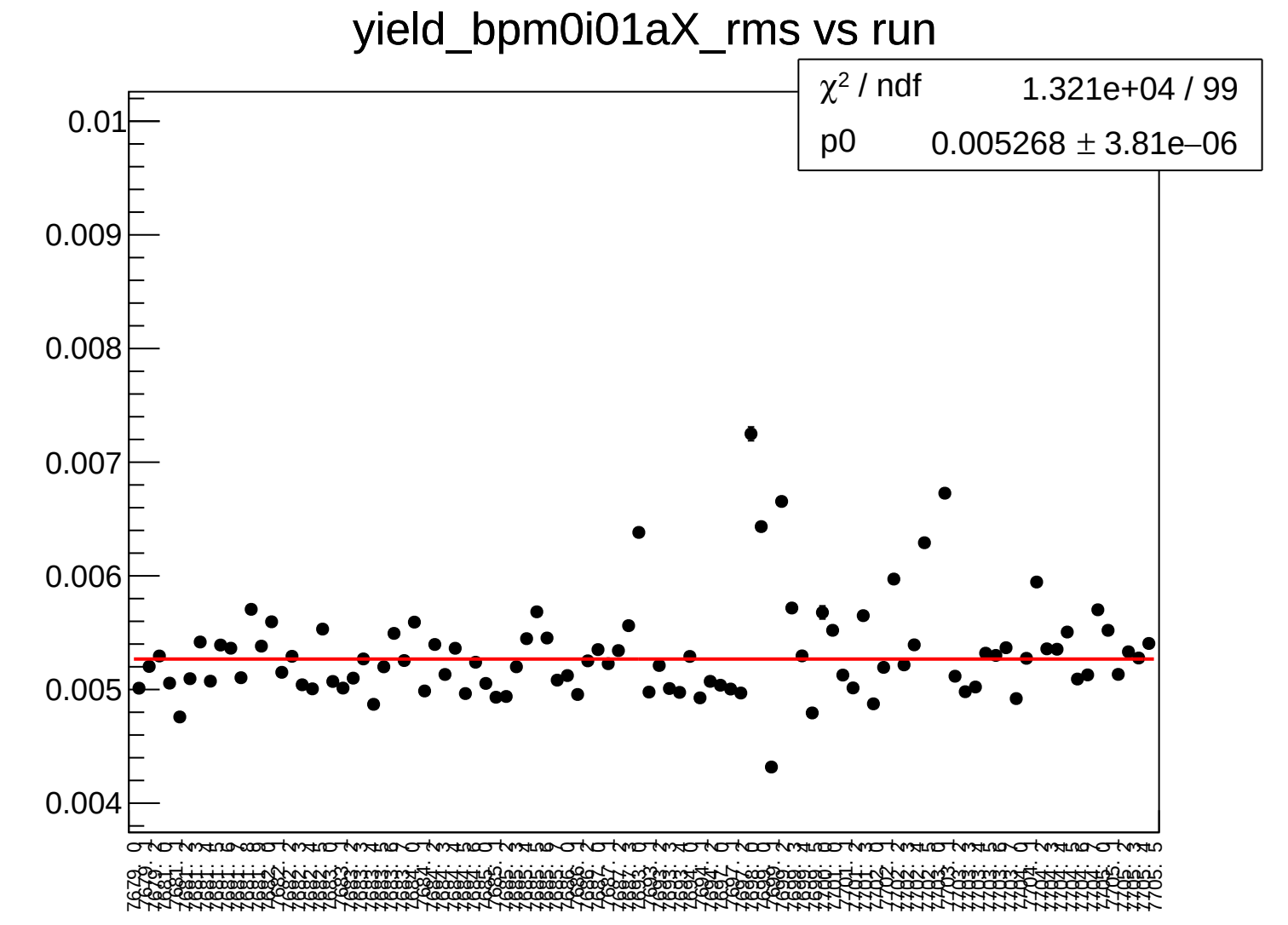

yield_bpm0i01X_rms vs run
χ² / ndf 1.251e+04 / 99
p0 0.007581 ± 5.481e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

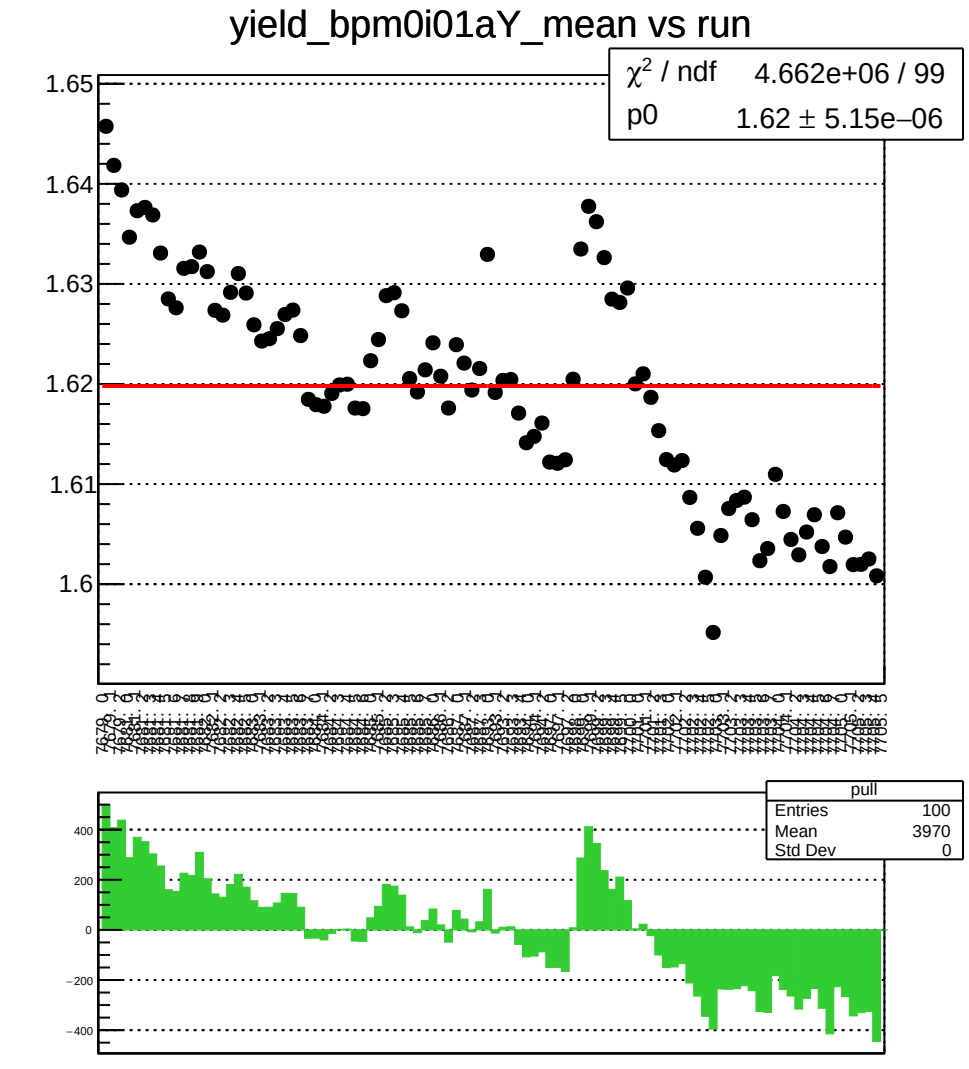

yield_bpm0i01Y_mean vs run
χ² / ndf 4.717e+06 / 99
p0 −1.038 ± 4.794e−06
−1.01
−1.02
−1.03
−1.04
−1.05
−1.06
pull
Entries 100
Mean −8556
Std Dev 0
400
200
0
−200
−400
pull1D
Entries 100
Mean −2.853
Std Dev 4.264
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

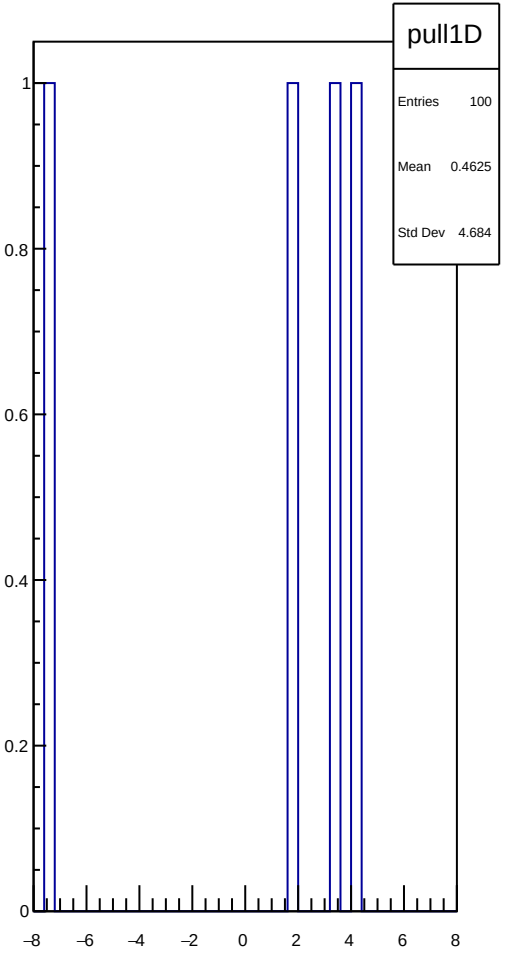

yield_bpm0i01Y_rms vs run
χ² / ndf 1.287e+04 / 99
p0 0.004688 ± 3.39e−06
0.009
0.008
0.007
0.006
0.005
0.004

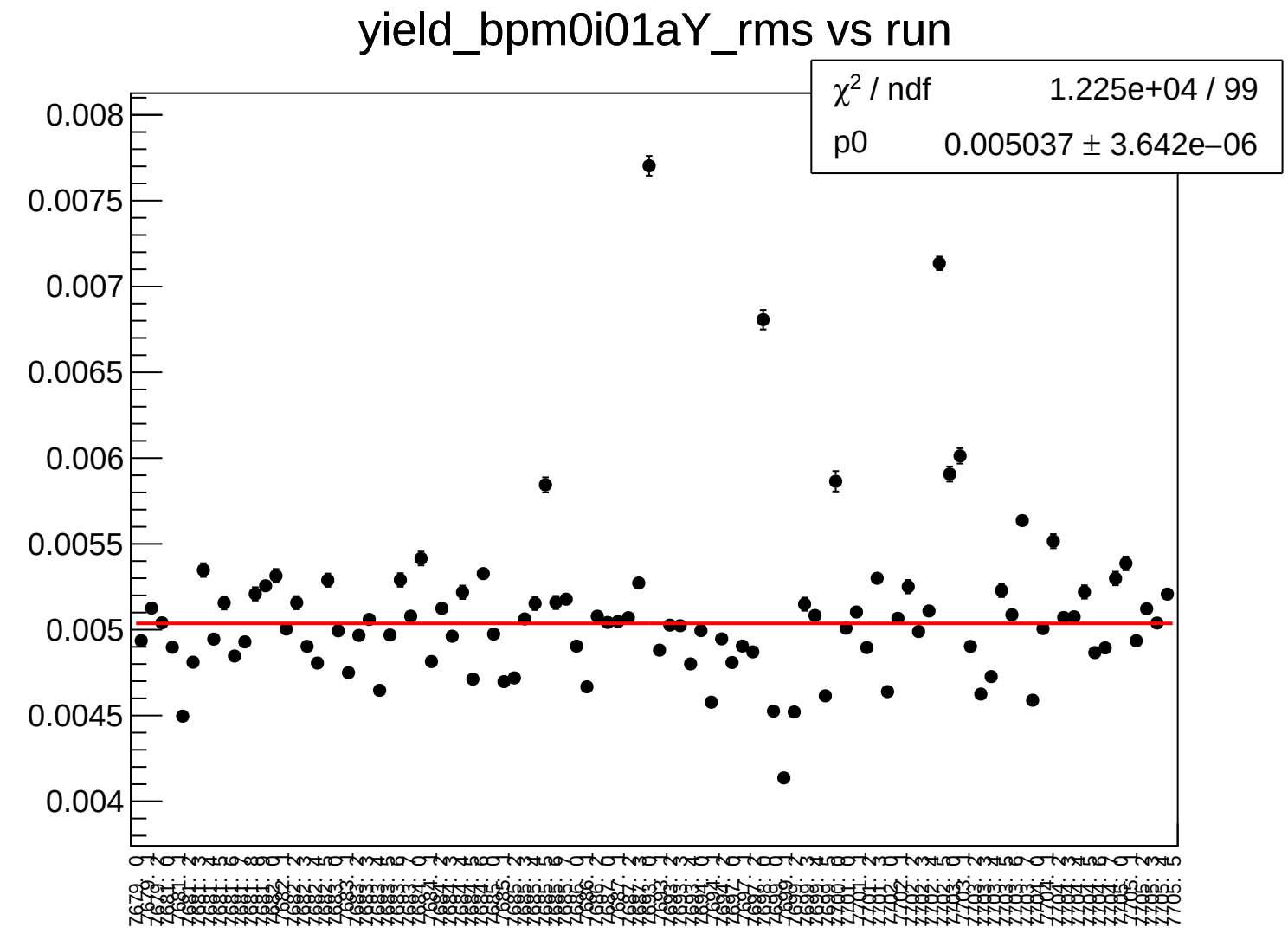

yield_bpm0i01aX_mean vs run
χ² / ndf 4.124e+06 / 99
p0 −1.661 ± 5.388e−06
−1.64
−1.65
−1.66
−1.67
−1.68
pull
Entries 100
Mean 1.308e+04
Std Dev 0
400
200
0
−200
−400

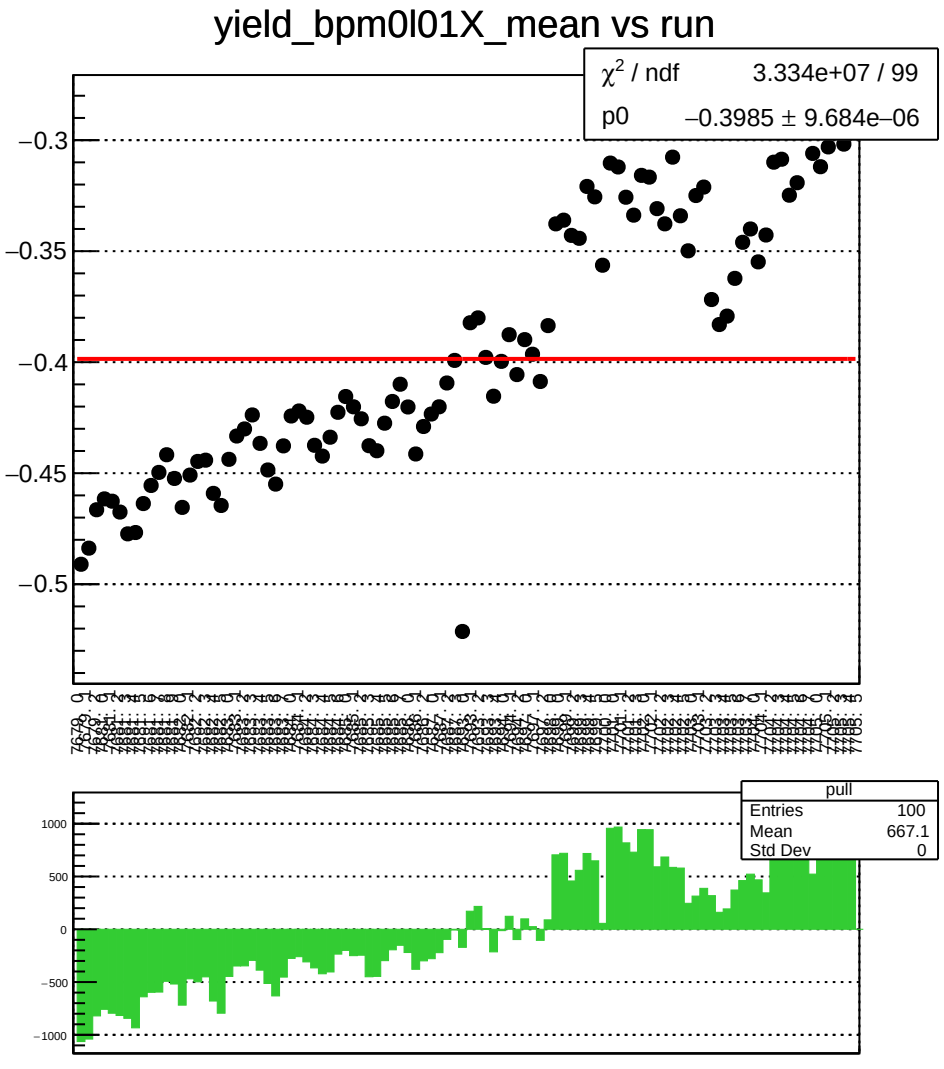

pull1D
Entries 100
Mean −2.405
Std Dev 2.531
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

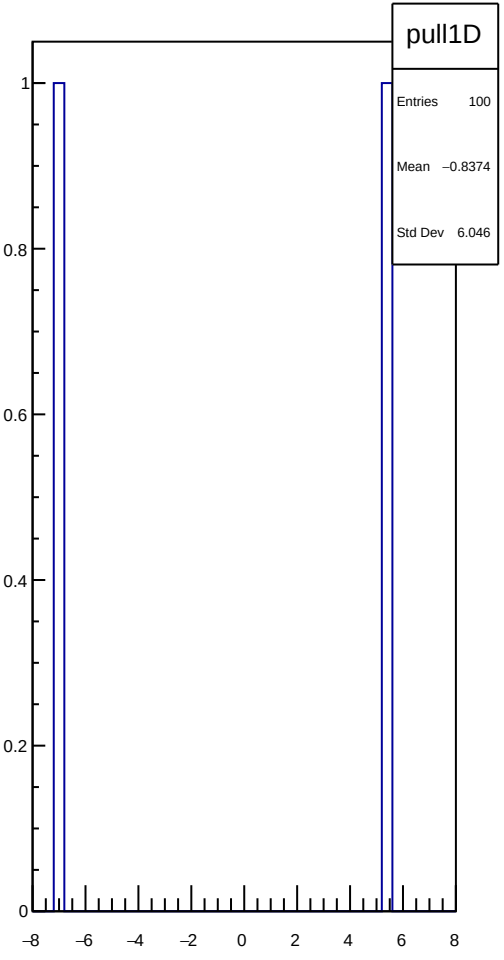

yield_bpm0i01aX_rms vs run
χ² / ndf 1.321e+04 / 99
p0 0.005268 ± 3.81e–06
0.01
0.009
0.008
0.007
0.006
0.005
0.004

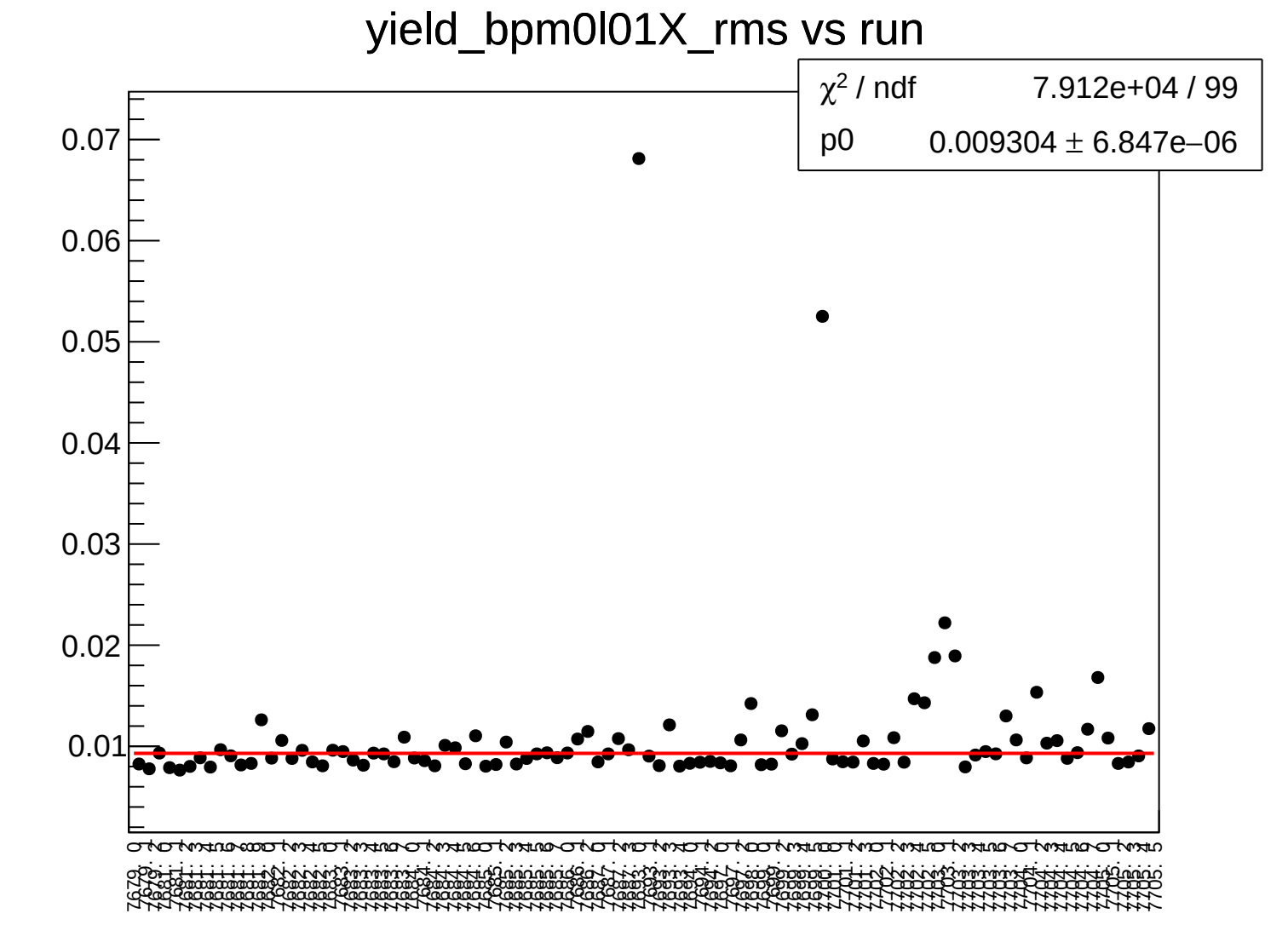

yield_bpm0i01aY_mean vs run
χ² / ndf 4.662e+06 / 99
p0 1.62 ± 5.15e−06
1.65
1.64
1.63
1.62
1.61
1.6
pull
Entries 100
Mean 3970
Std Dev 0
400
200
0
−200
−400

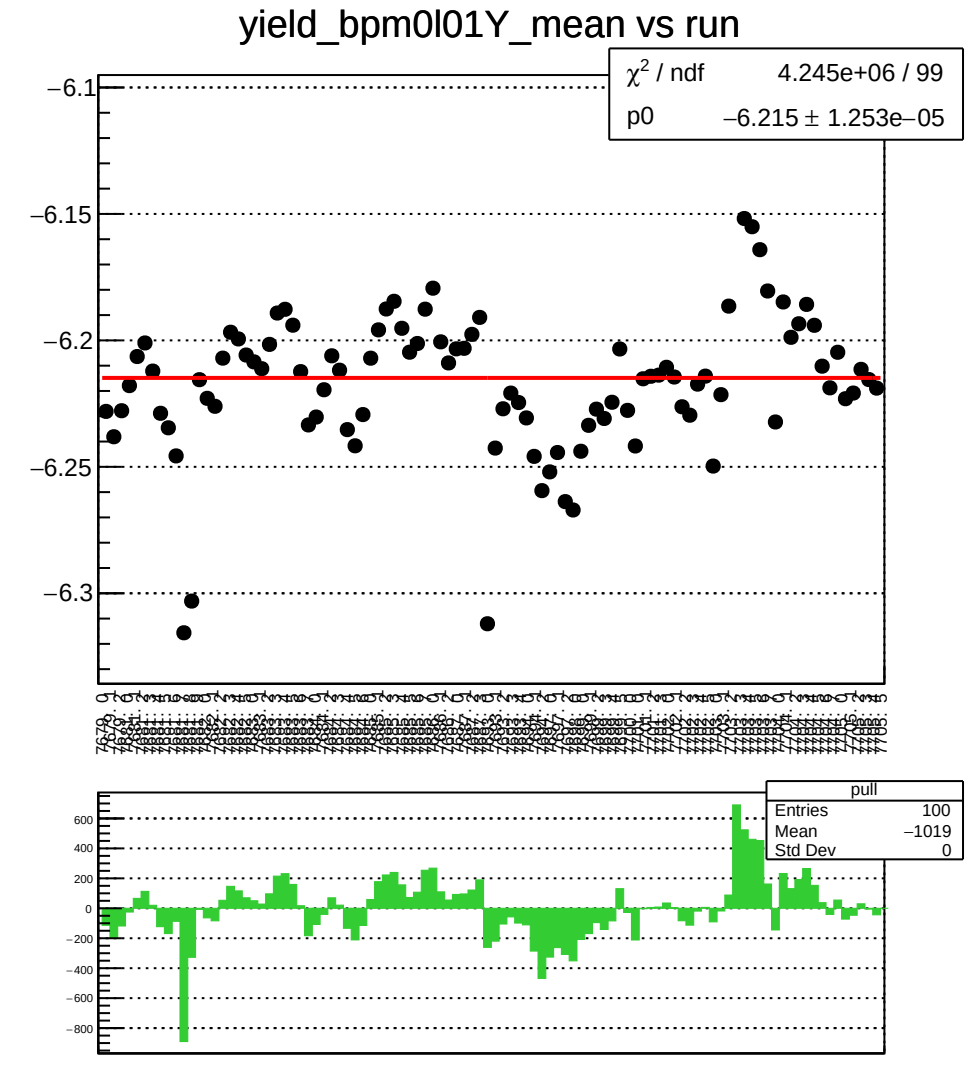

pull1D
Entries 100
Mean 0.4625
Std Dev 4.684
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

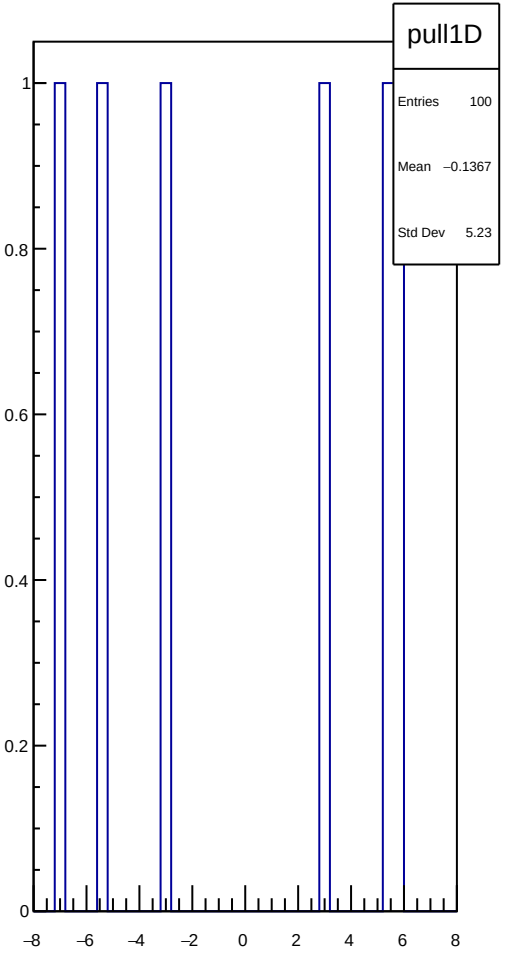

yield_bpm0i01aY_rms vs run
χ² / ndf 1.225e+04 / 99
p0 0.005037 ± 3.642e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004

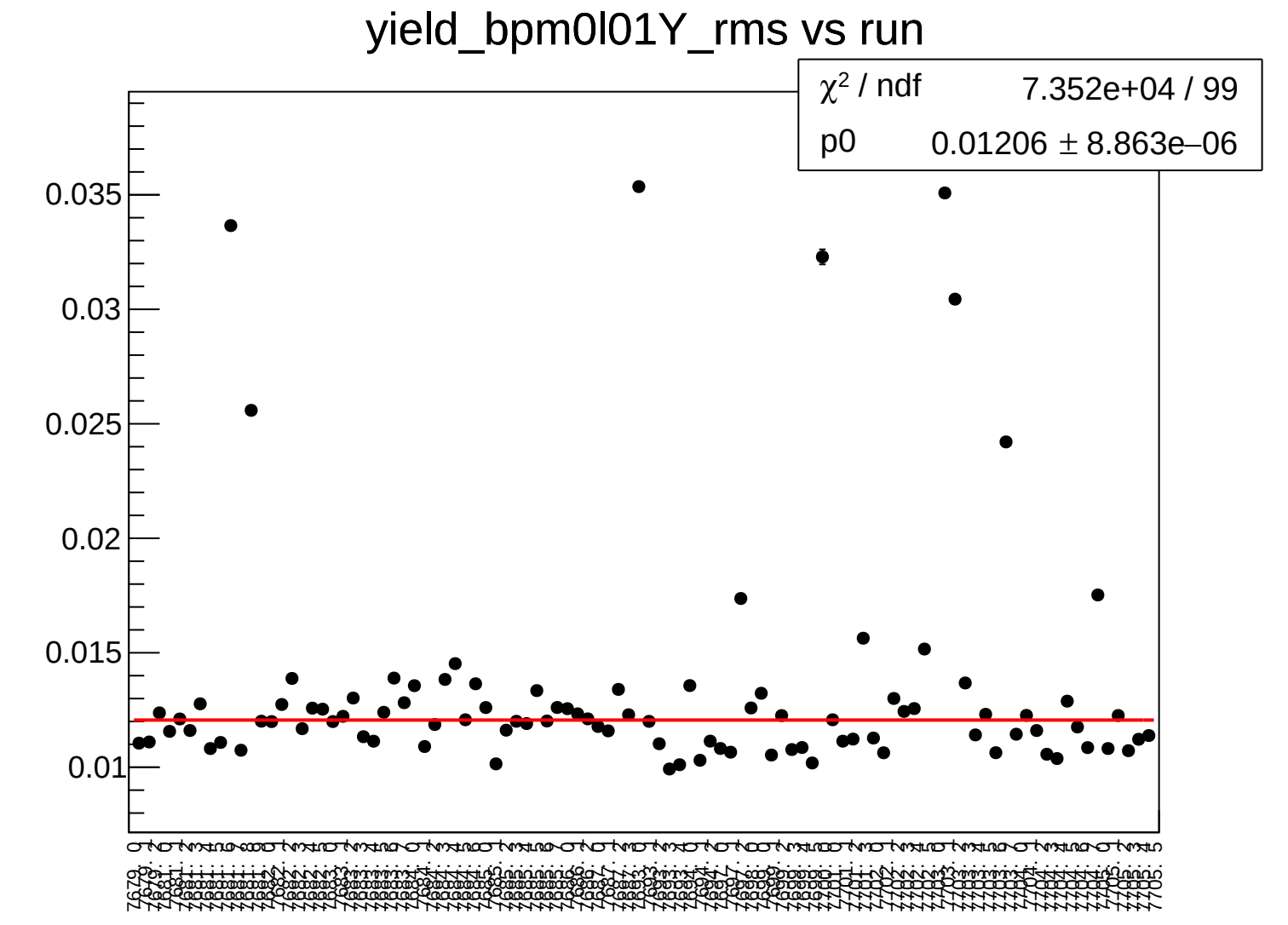

yield_bpm0l01X_mean vs run
χ² / ndf 3.334e+07 / 99
p0 −0.3985 ± 9.684e−06
−0.3
−0.35
−0.4
−0.45
−0.5
pull
Entries 100
Mean 667.1
Std Dev 0
1000
500
0
−500
−1000

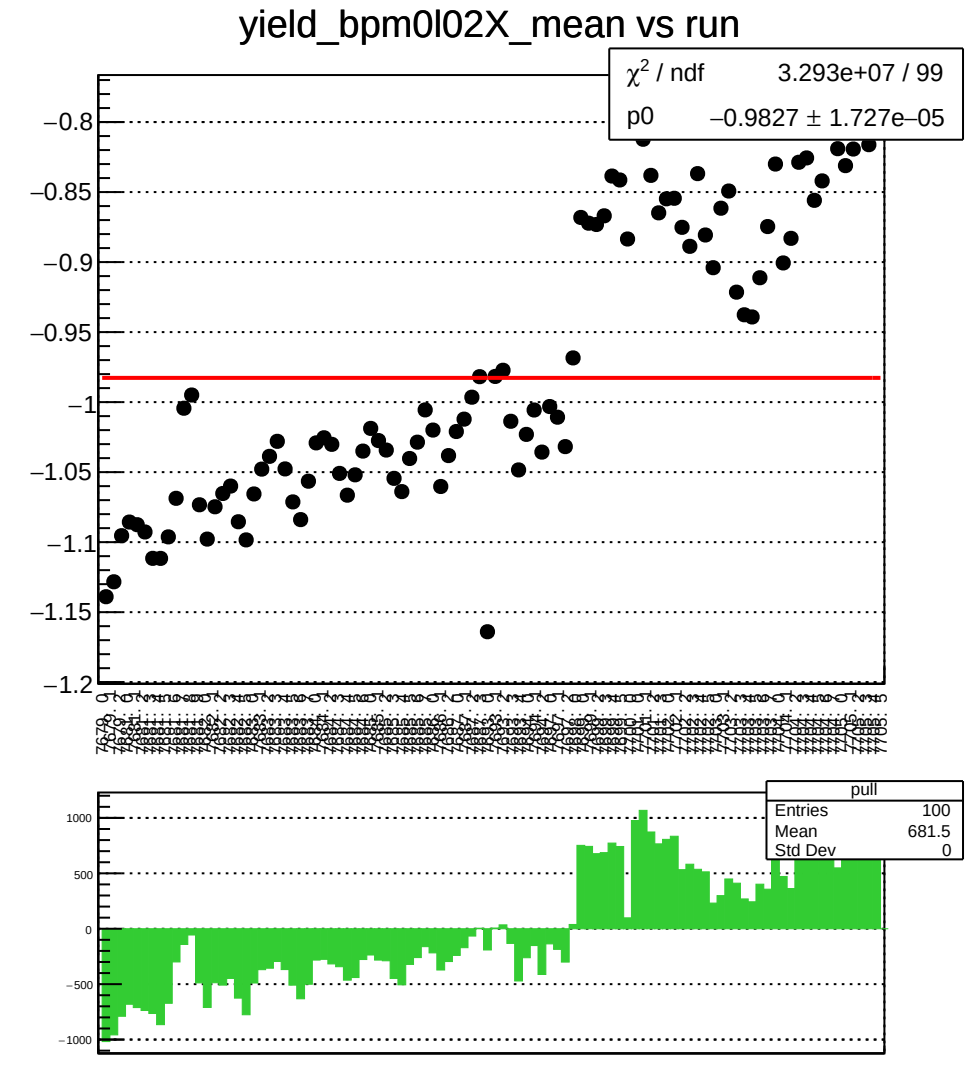

pull1D
Entries 100
Mean −0.8374
Std Dev 6.046
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

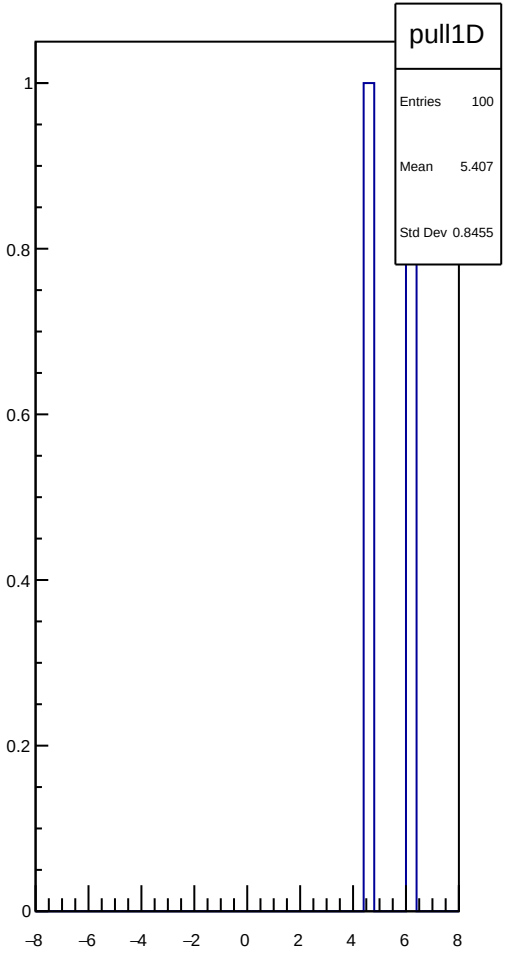

yield_bpm0l01X_rms vs run
χ² / ndf 7.912e+04 / 99
p0 0.009304 ± 6.847e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

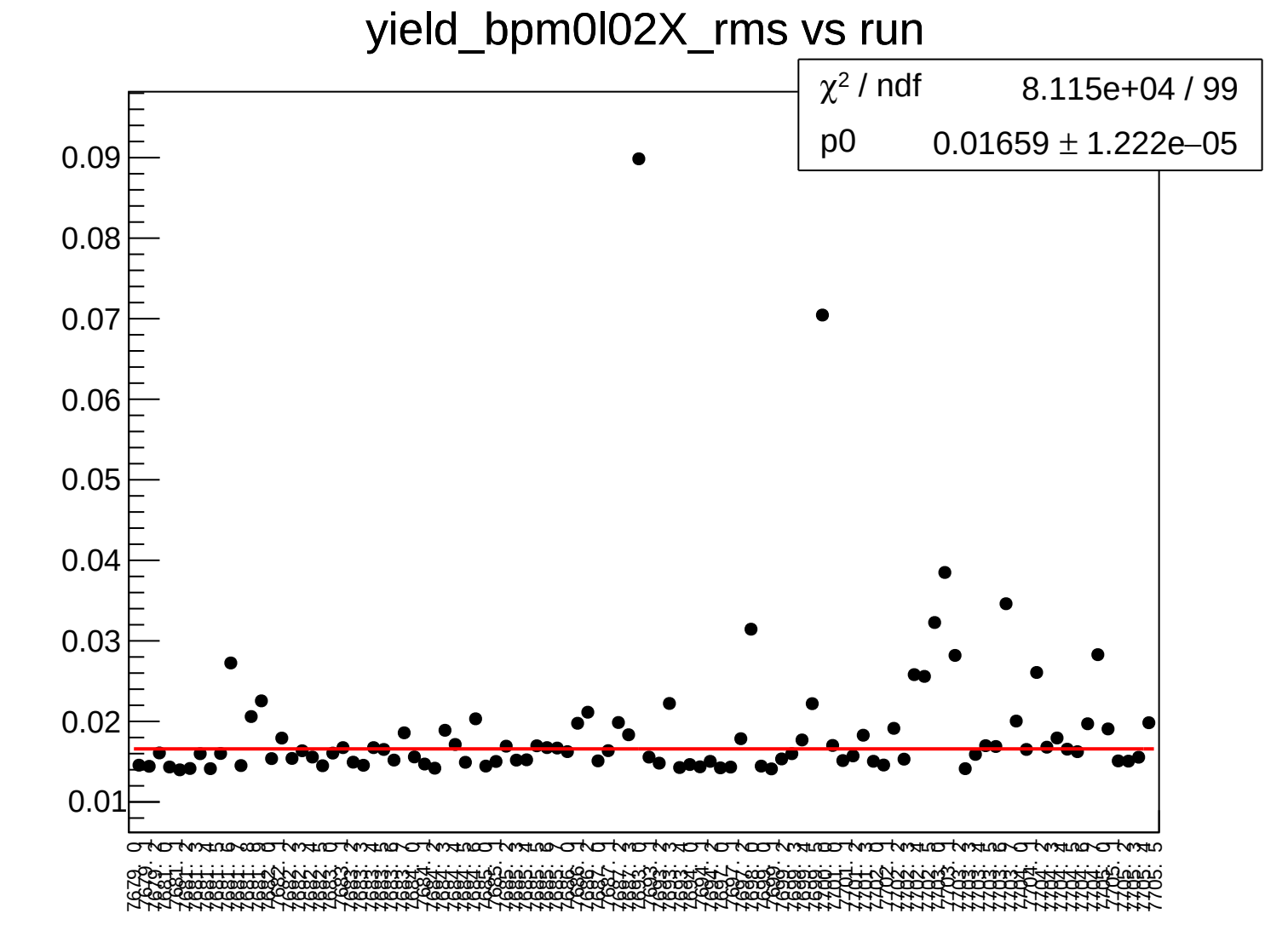

yield_bpm0l01Y_mean vs run
χ² / ndf 4.245e+06 / 99
p0 −6.215 ± 1.253e−05
−6.1
−6.15
−6.2
−6.25
−6.3
pull
Entries 100
Mean −1019
Std Dev 0
600
400
200
0
−200
−400
−600
−800

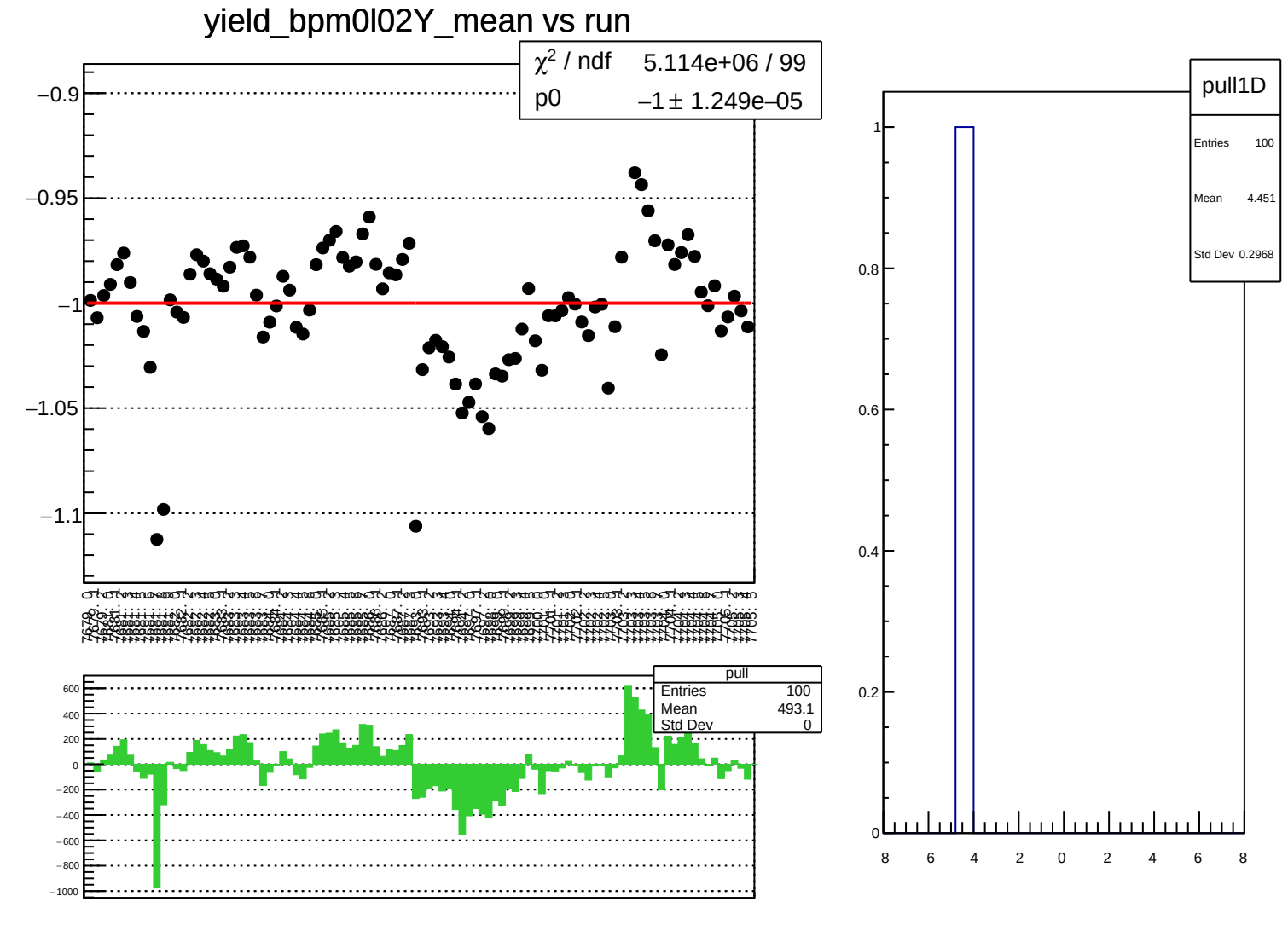

pull1D
Entries 100
Mean −0.1367
Std Dev 5.23
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

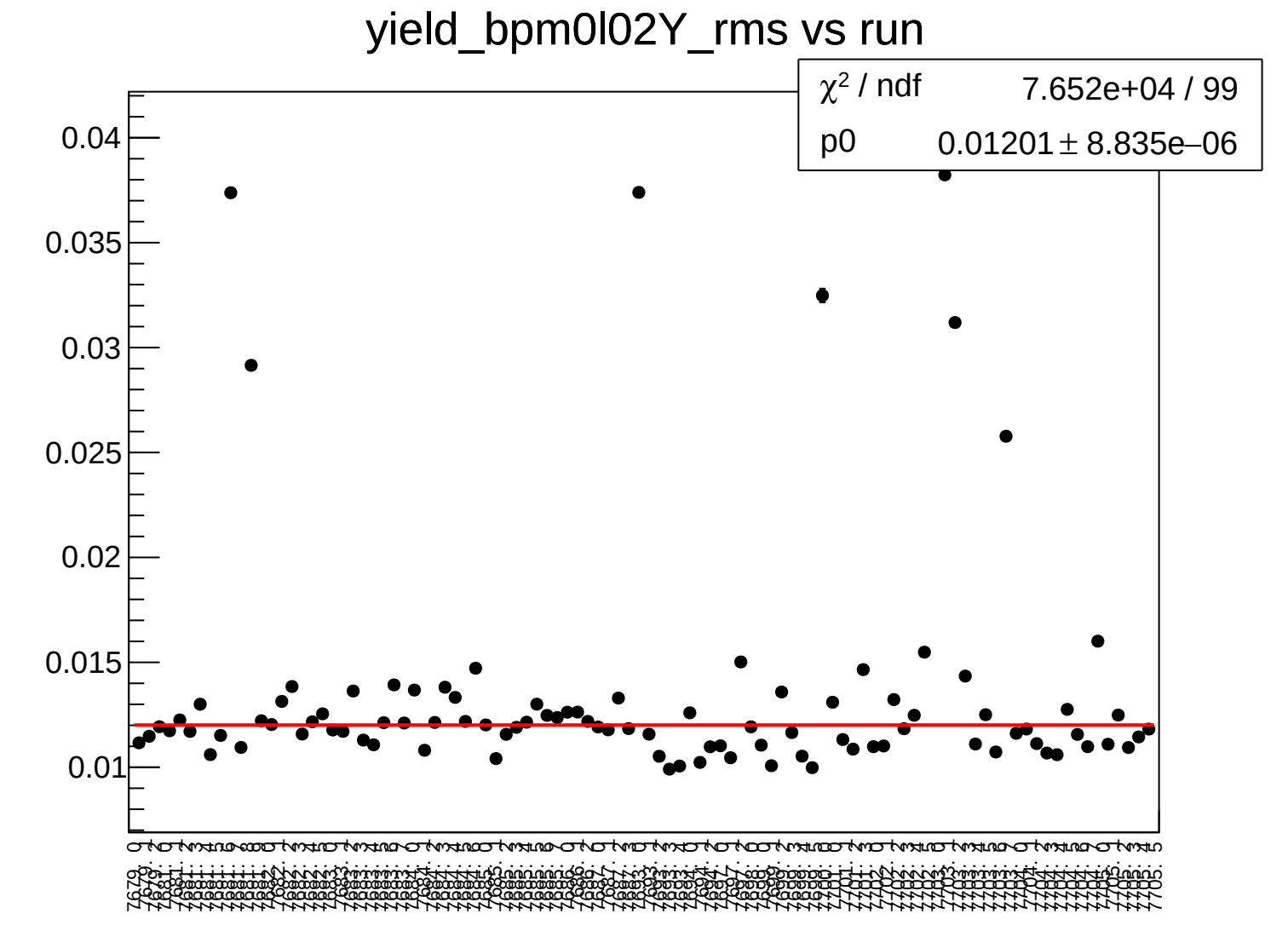

yield_bpm0l01Y_rms vs run
χ² / ndf 7.352e+04 / 99
p0 0.01206 ± 8.863e–06
0.035
0.03
0.025
0.02
0.015
0.01

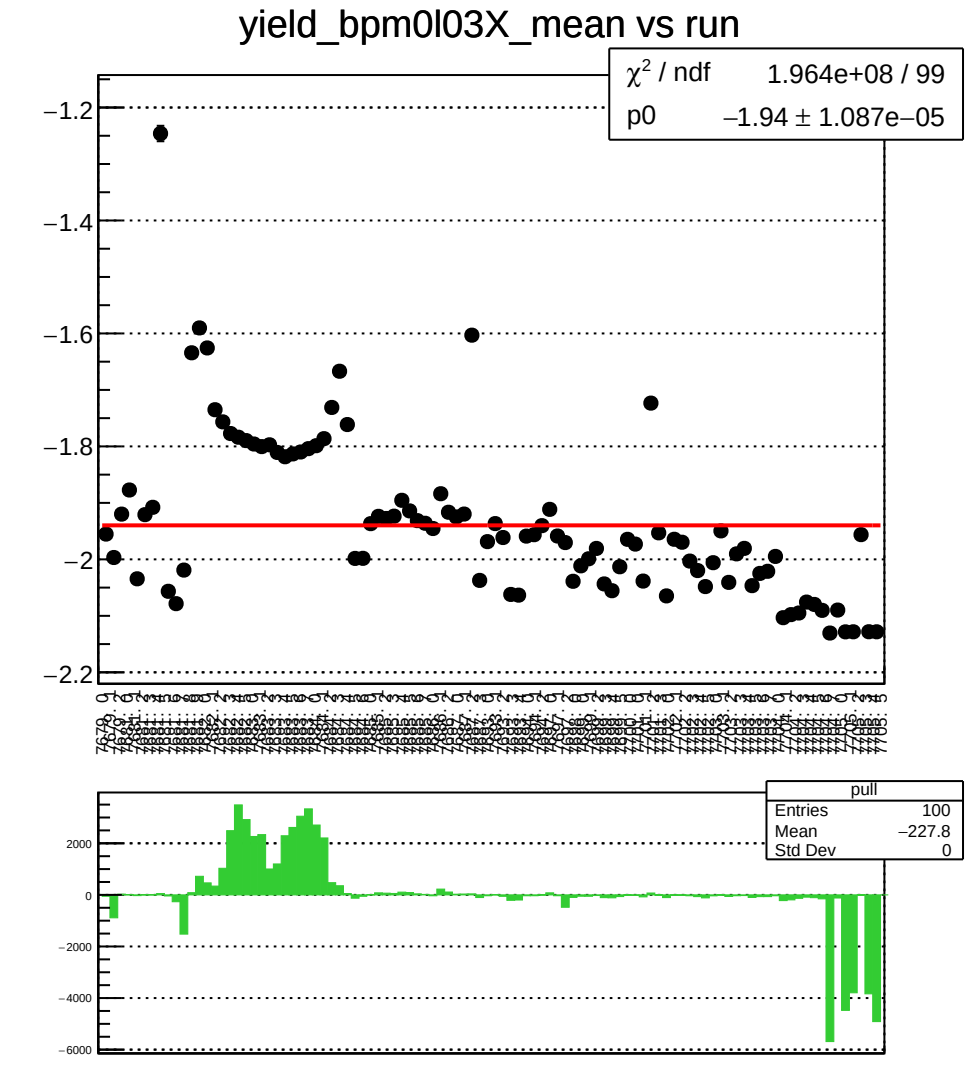

yield_bpm0l02X_mean vs run
χ² / ndf 3.293e+07 / 99
p0 −0.9827 ± 1.727e−05
−0.8
−0.85
−0.9
−0.95
−1
−1.05
−1.1
−1.15
−1.2
pull
Entries 100
Mean 681.5
Std Dev 0
1000
500
0
−500
−1000

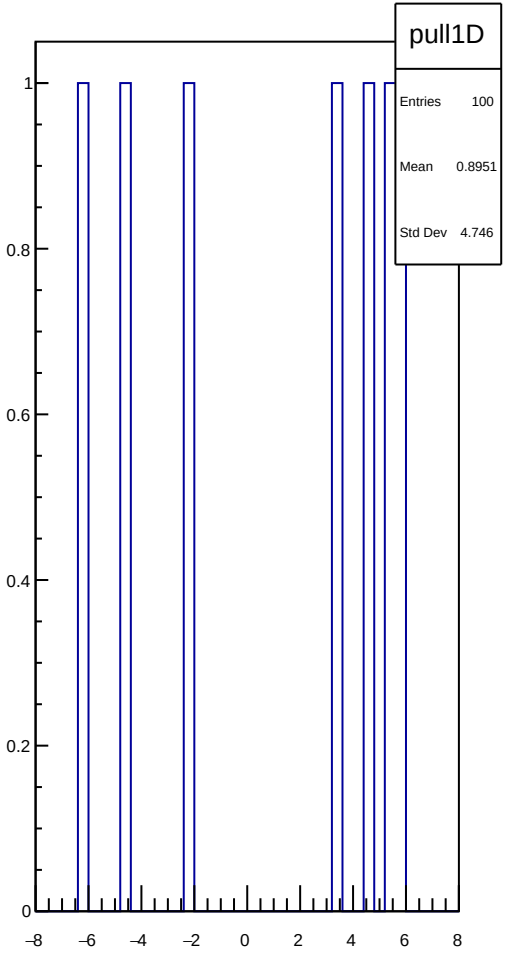

pull1D
Entries 100
Mean 5.407
Std Dev 0.8455
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

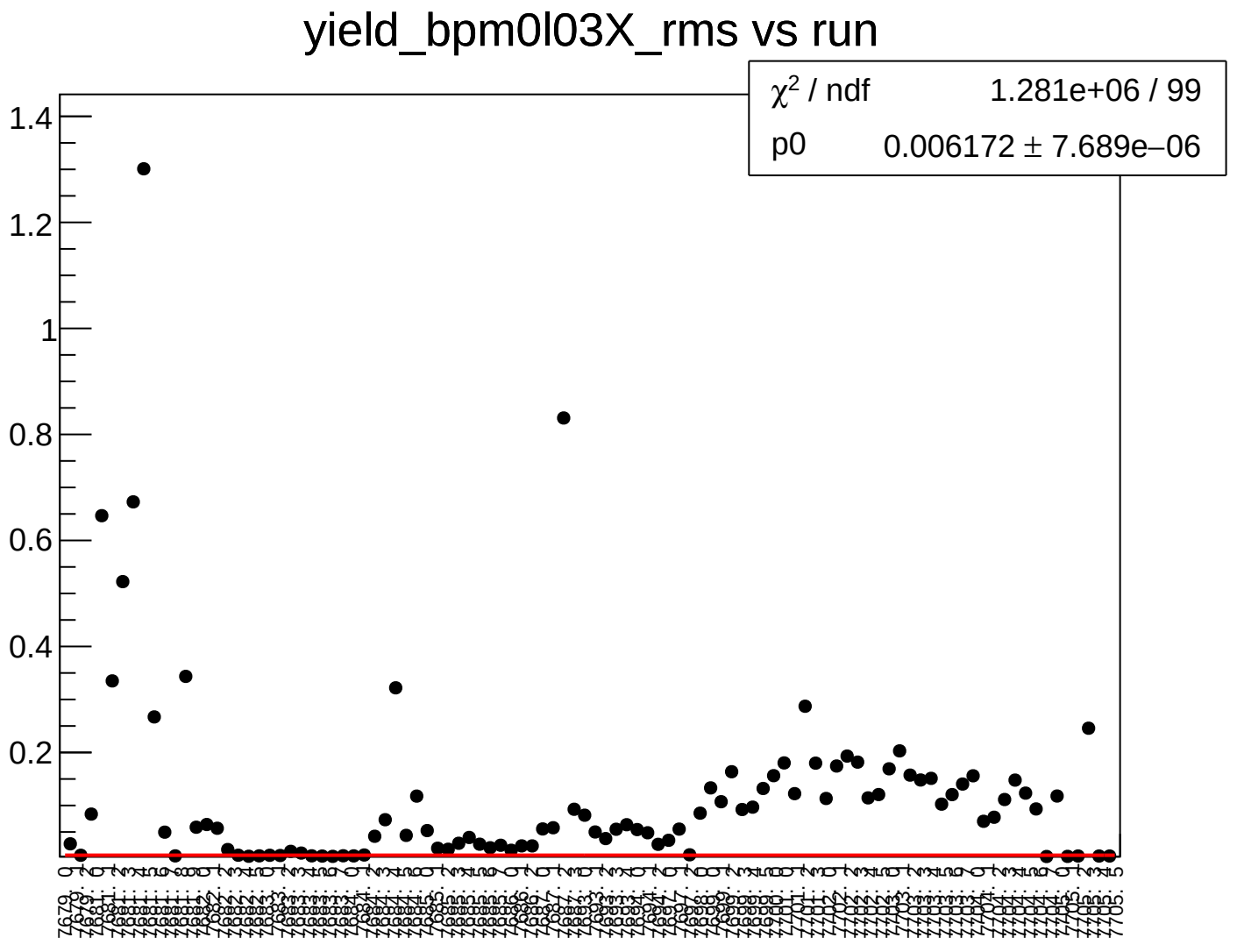

yield_bpm0l02X_rms vs run
χ² / ndf 8.115e+04 / 99
p0 0.01659 ± 1.222e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

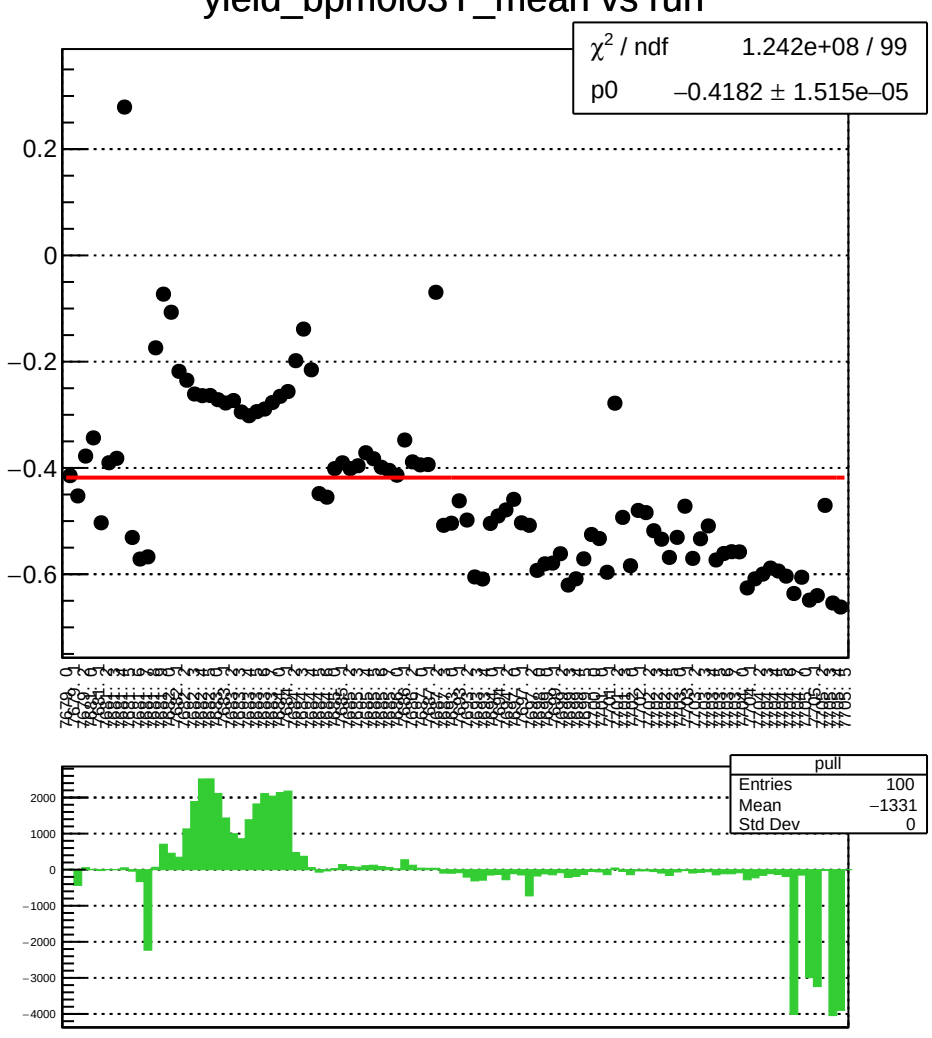

yield_bpm0l02Y_mean vs run
χ² / ndf 5.114e+06 / 99
p0 −1 ± 1.249e−05
−0.9
−0.95
−1
−1.05
−1.1
pull
Entries 100
Mean 493.1
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000
pull1D
Entries 100
Mean −4.451
Std Dev 0.2968
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

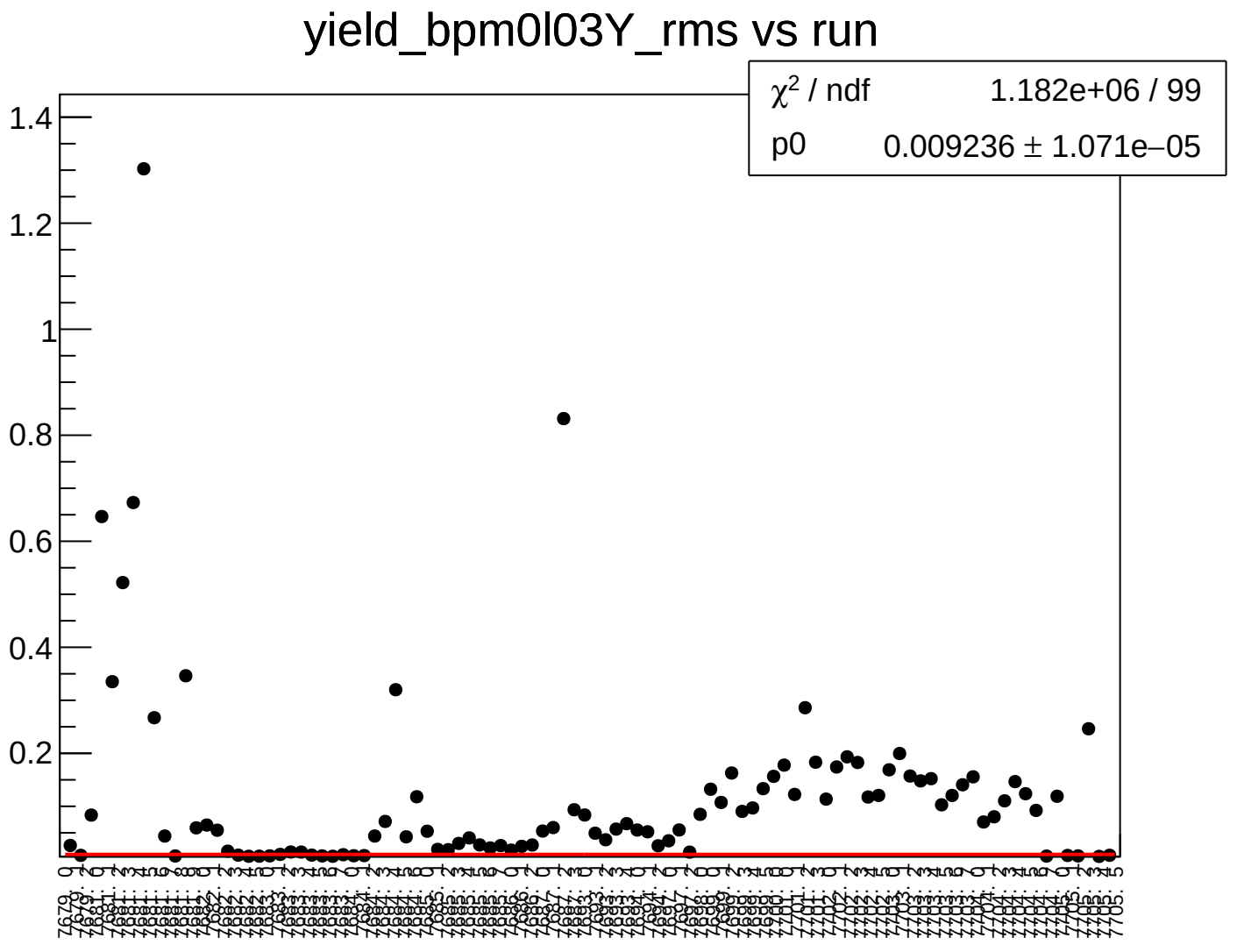

yield_bpm0l02Y_rms vs run
χ² / ndf 7.652e+04 / 99
p0 0.01201 ± 8.835e–06
0.04
0.035
0.03
0.025
0.02
0.015
0.01

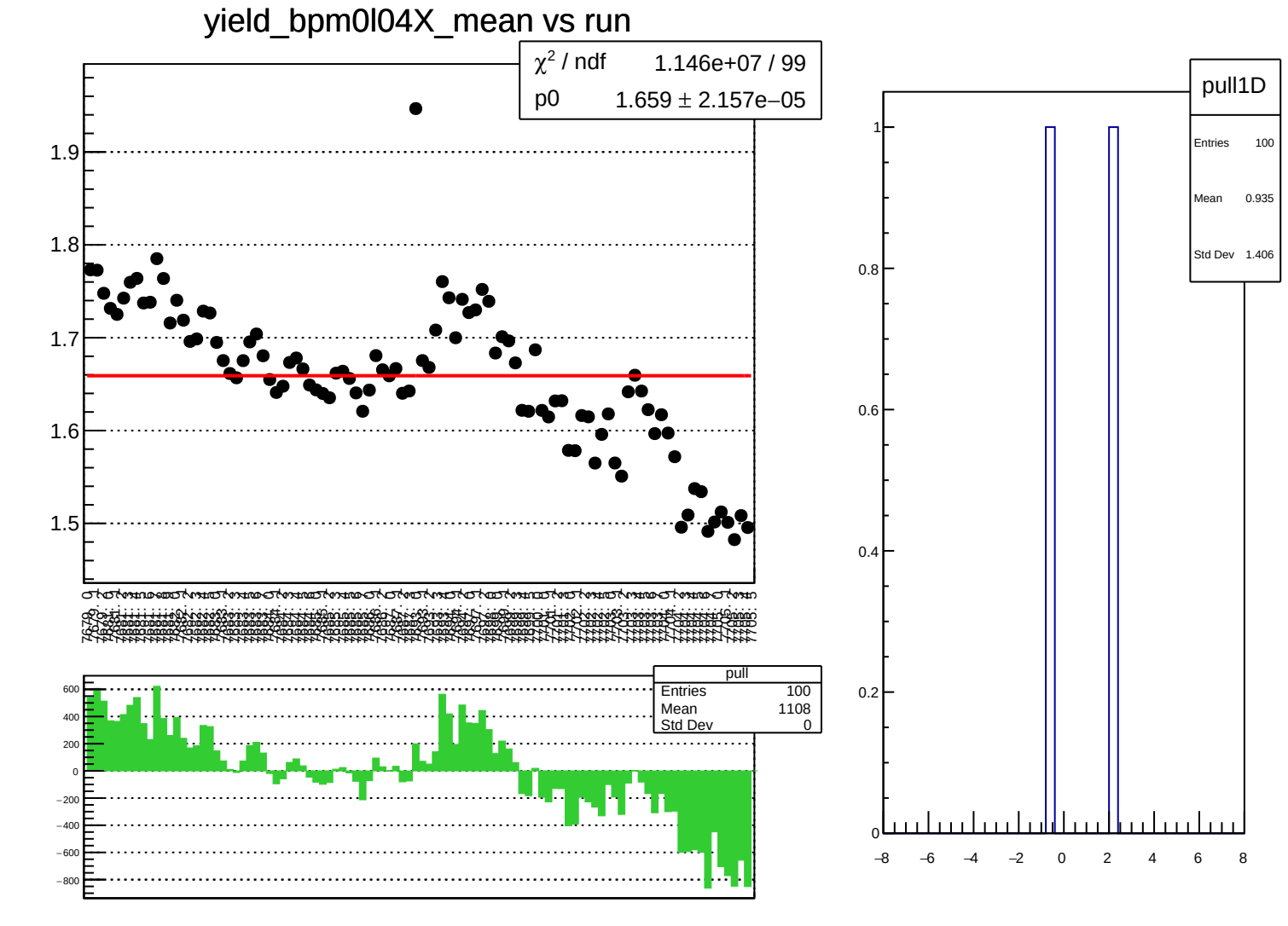

yield_bpm0l03X_mean vs run
χ² / ndf 1.964e+08 / 99
p0 −1.94 ± 1.087e−05
−1.2
−1.4
−1.6
−1.8
−2
−2.2
pull
Entries 100
Mean −227.8
Std Dev 0
2000
0
−2000
−4000
−6000

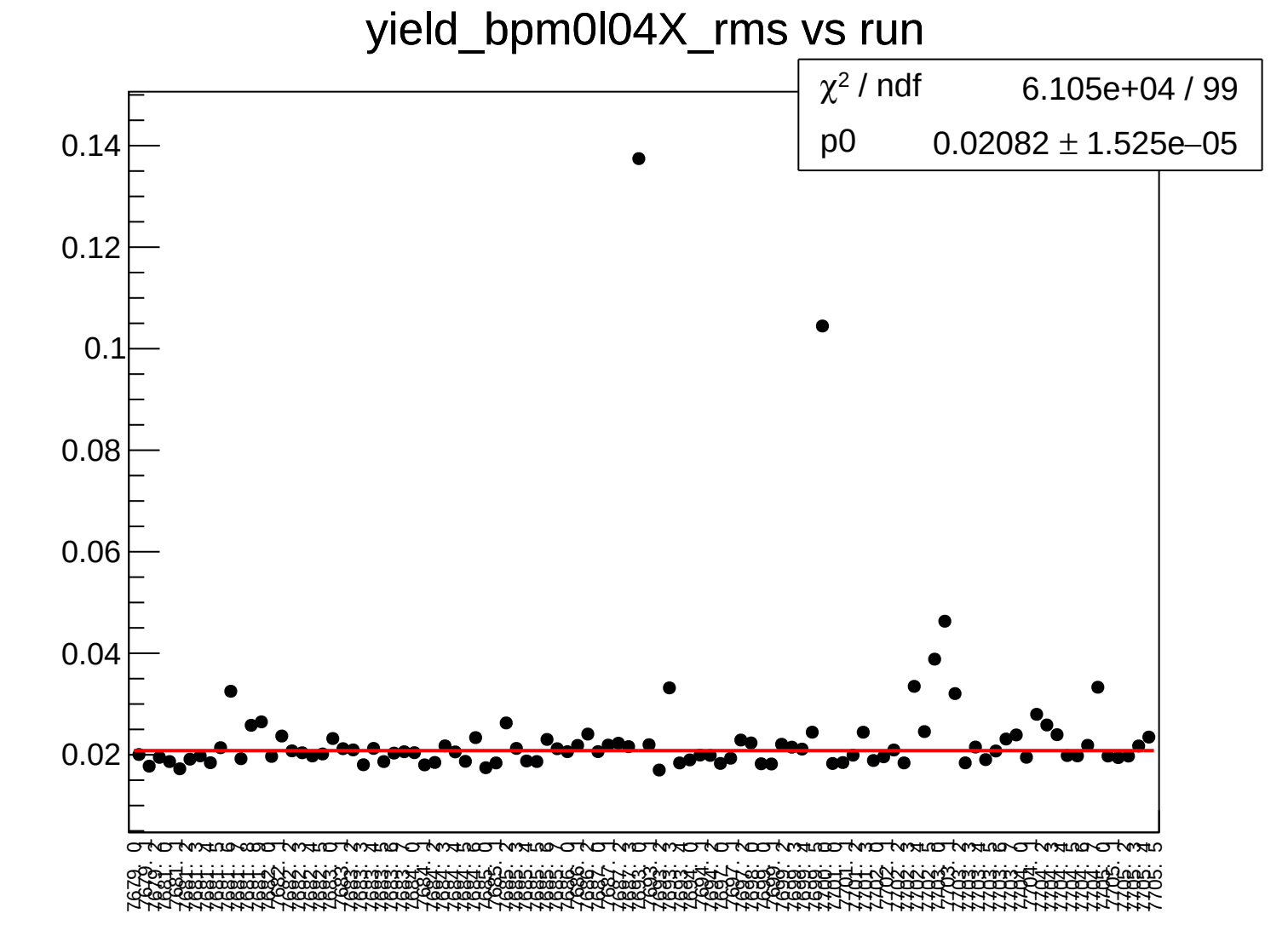

pull1D
Entries 100
Mean 0.8951
Std Dev 4.746
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

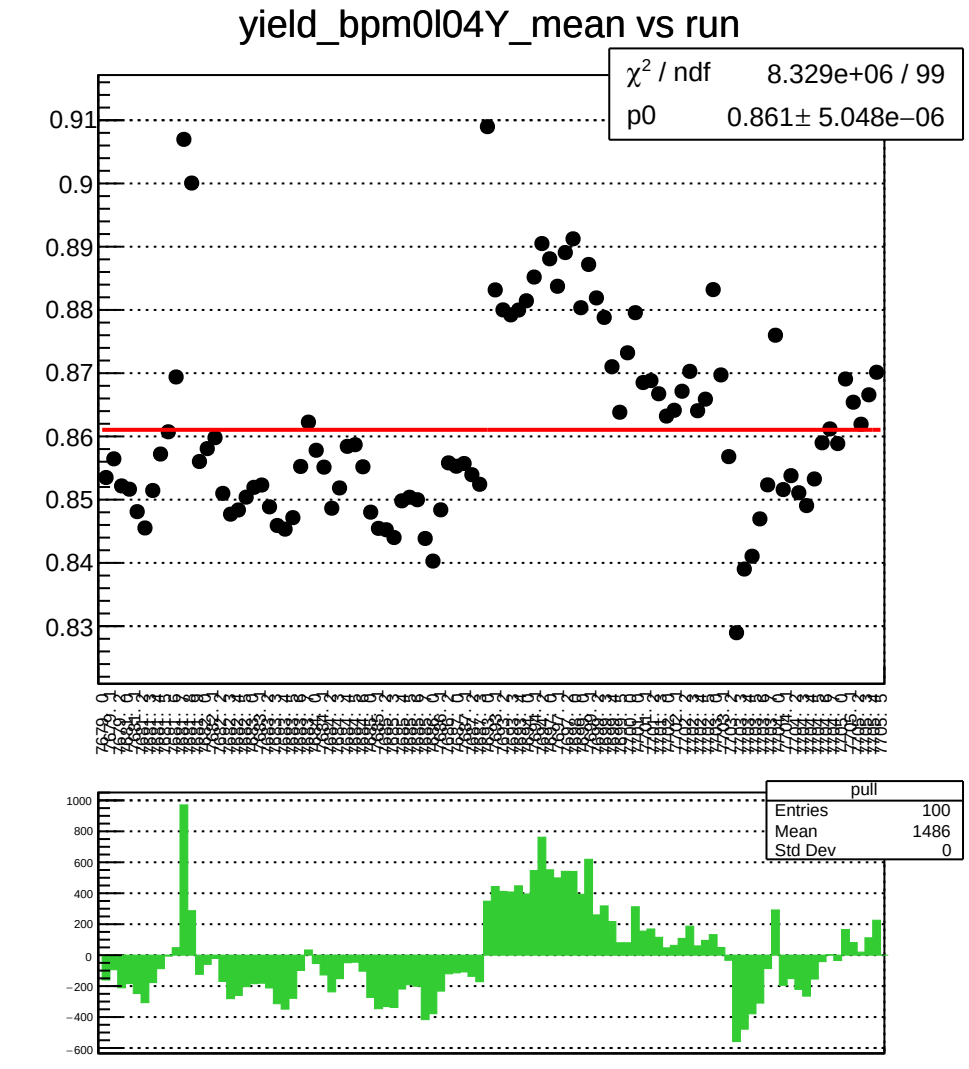

yield_bpm0l03X_rms vs run
χ² / ndf 1.281e+06 / 99
p0 0.006172 ± 7.689e−06
1.4
1.2
1
0.8
0.6
0.4
0.2

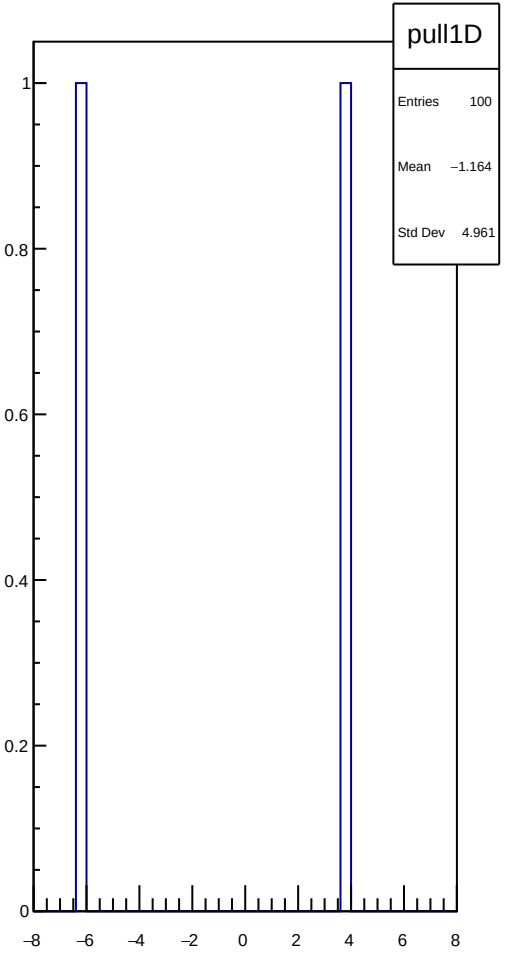

yield_bpm0l03Y_mean vs run
χ² / ndf 1.242e+08 / 99
p0 −0.4182 ± 1.515e−05
pull
Entries 100
Mean −1331
Std Dev 0
pull1D
Entries 100
Mean 5.1
Std Dev 0.01702

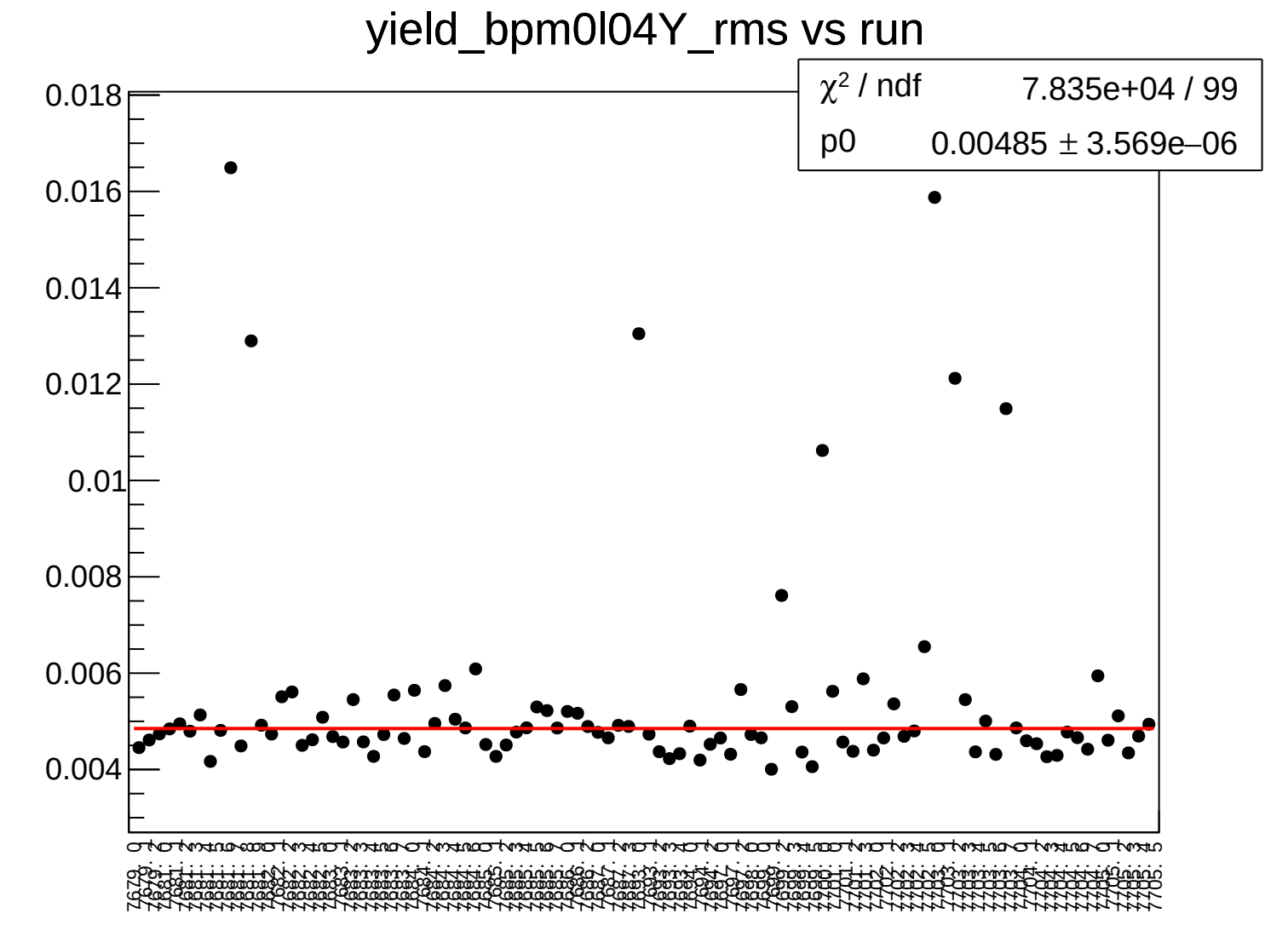

yield_bpm0l03Y_rms vs run
χ² / ndf 1.182e+06 / 99
p0 0.009236 ± 1.071e−05
1.4
1.2
1
0.8
0.6
0.4
0.2

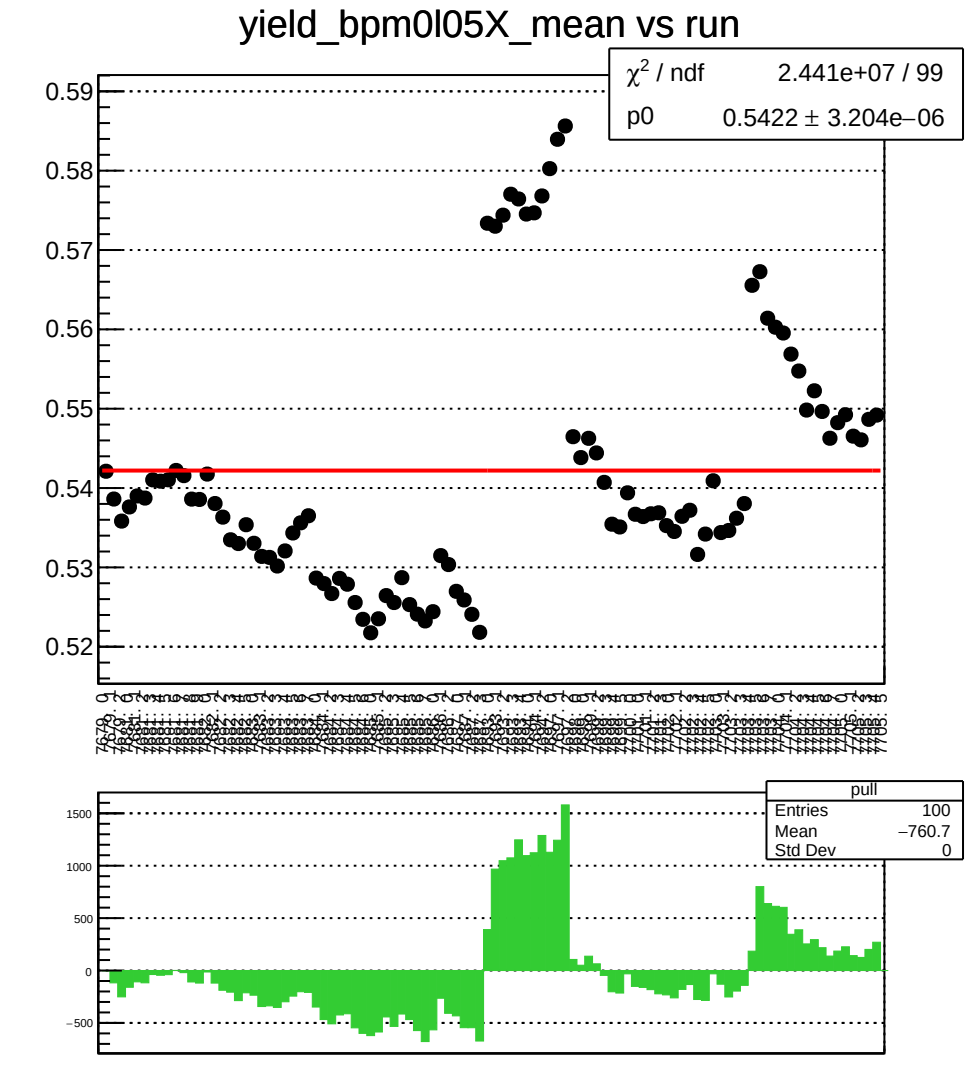

yield_bpm0l04X_mean vs run
χ² / ndf 1.146e+07 / 99
p0 1.659 ± 2.157e−05
1.9
1.8
1.7
1.6
1.5
pull
Entries 100
Mean 1108
Std Dev 0
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 100
Mean 0.935
Std Dev 1.406
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

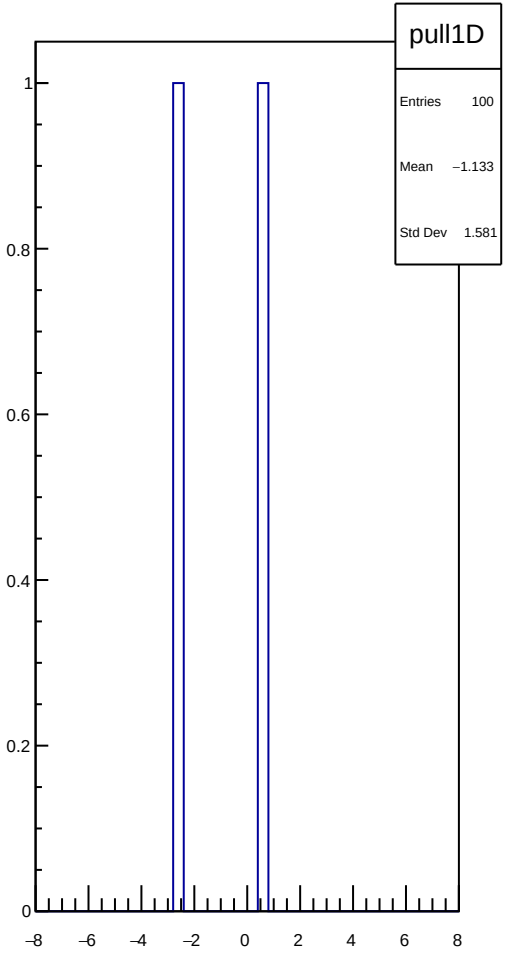

yield_bpm0l04X_rms vs run
χ² / ndf 6.105e+04 / 99
p0 0.02082 ± 1.525e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

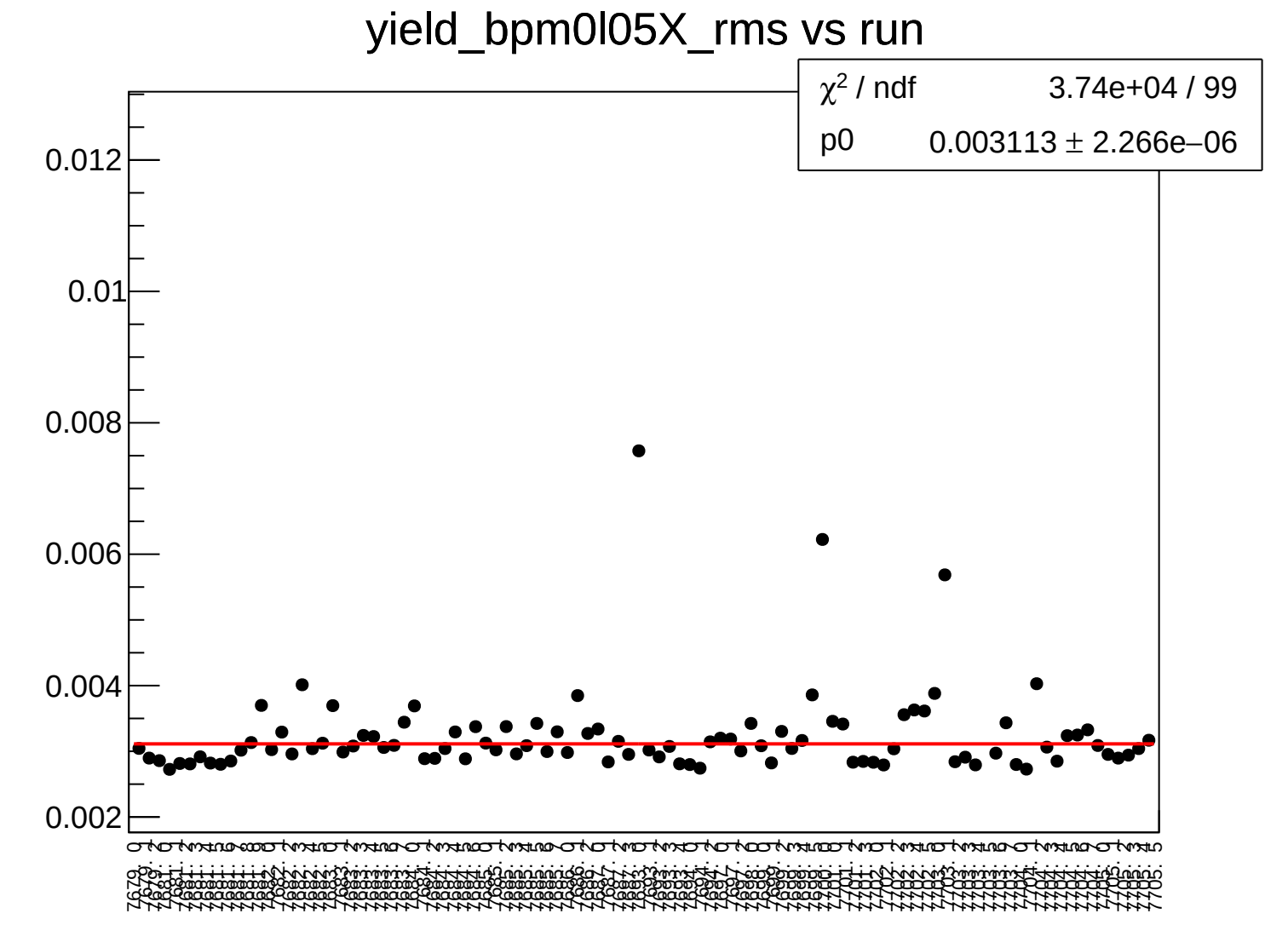

yield_bpm0l04Y_mean vs run
χ² / ndf 8.329e+06 / 99
p0 0.861± 5.048e−06
0.91
0.9
0.89
0.88
0.87
0.86
0.85
0.84
0.83
pull
Entries 100
Mean 1486
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600

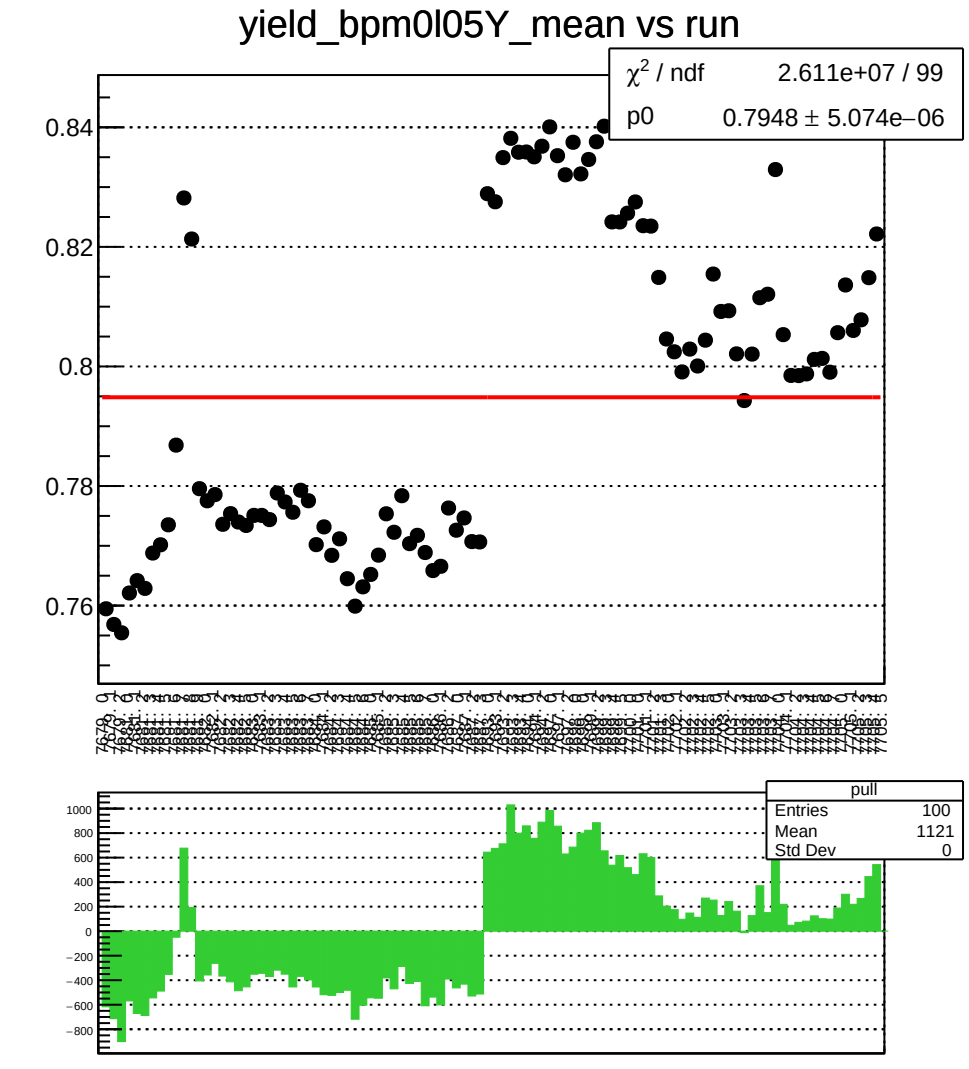

pull1D
Entries 100
Mean −1.164
Std Dev 4.961
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

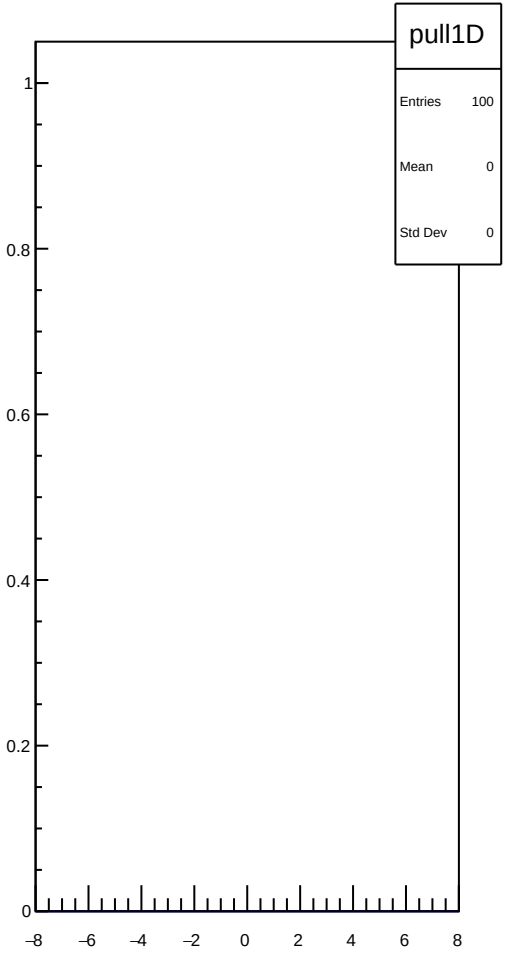

yield_bpm0l04Y_rms vs run
χ² / ndf 7.835e+04 / 99
p0 0.00485 ± 3.569e–06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

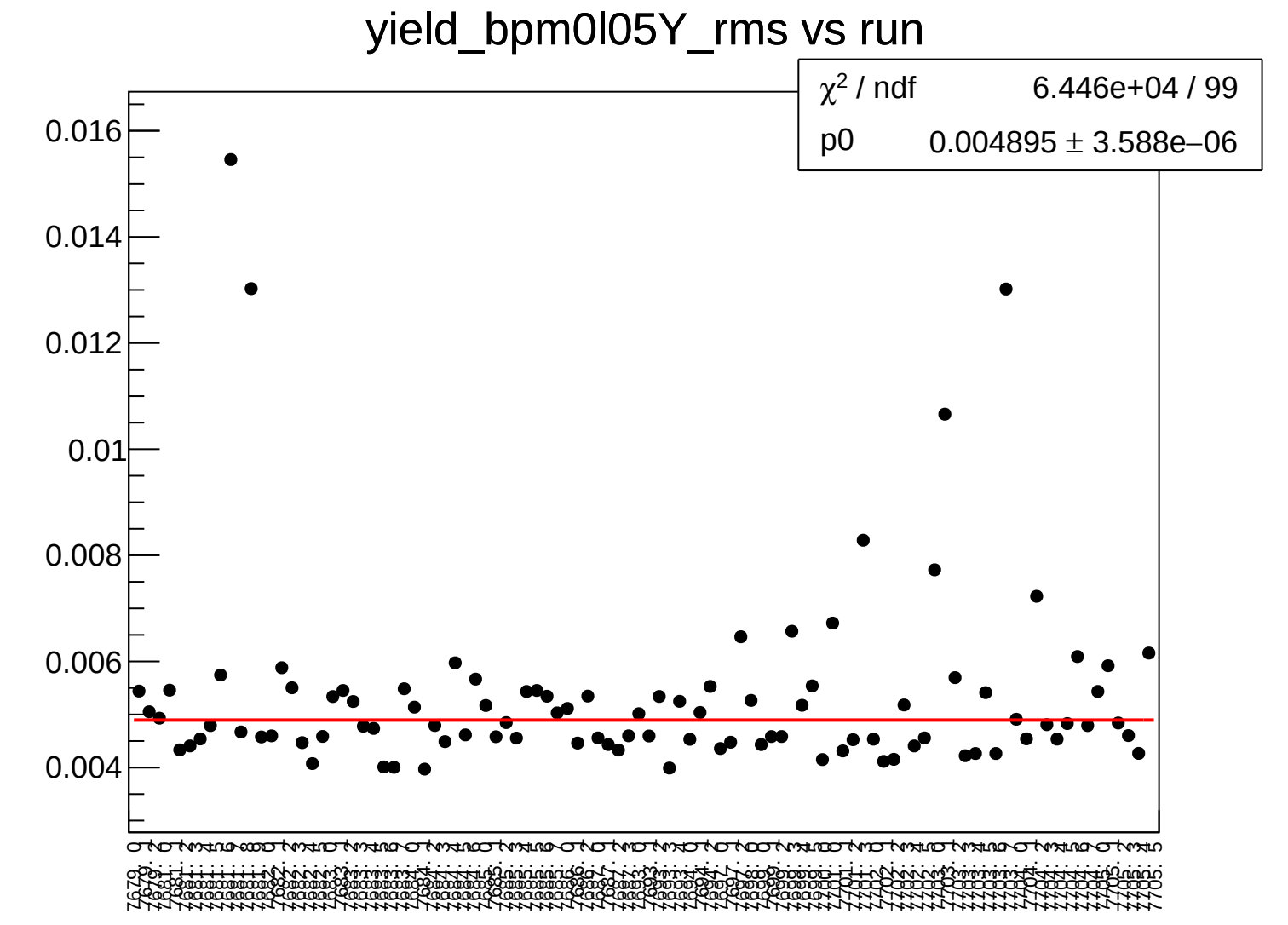

yield_bpm0l05X_mean vs run
χ² / ndf 2.441e+07 / 99
p0 0.5422 ± 3.204e−06
0.59
0.58
0.57
0.56
0.55
0.54
0.53
0.52
pull
Entries 100
Mean −760.7
Std Dev 0
1500
1000
500
0
−500

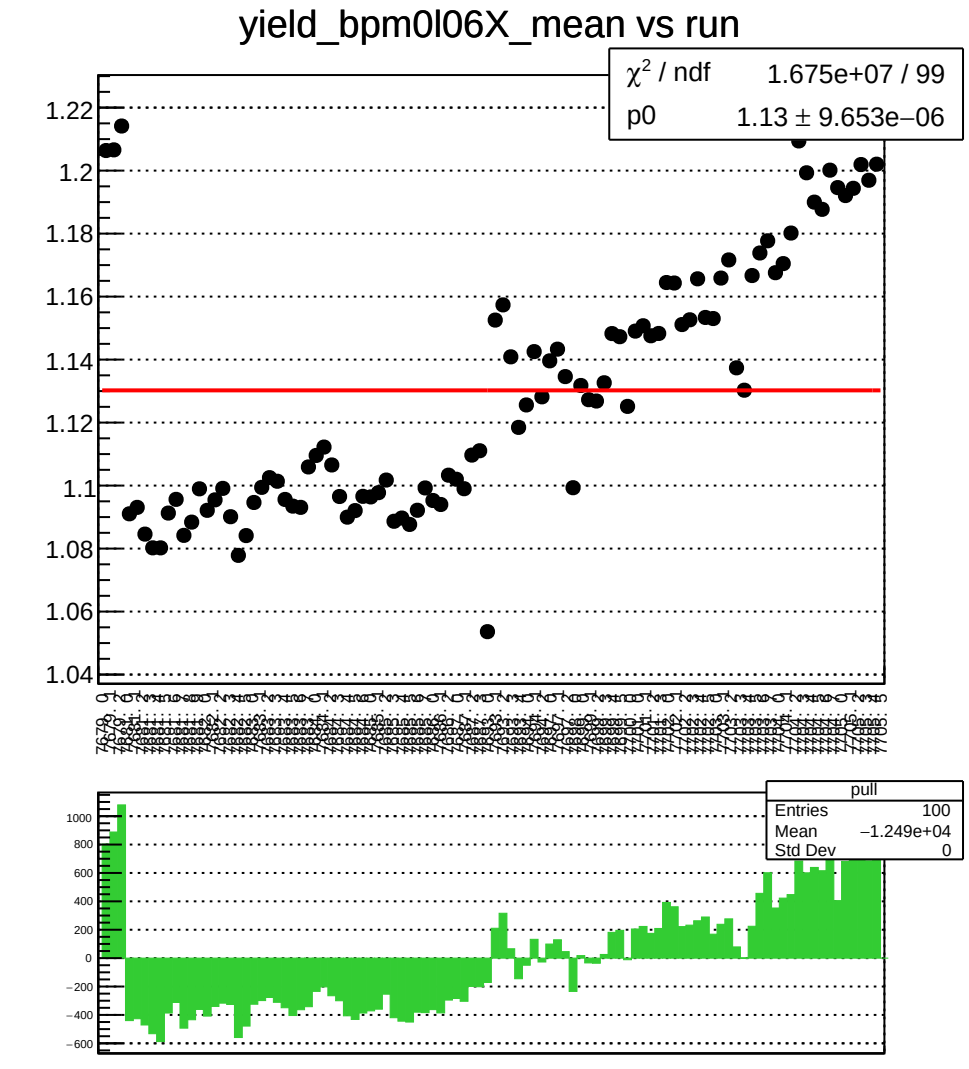

pull1D
Entries 100
Mean −1.133
Std Dev 1.581
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

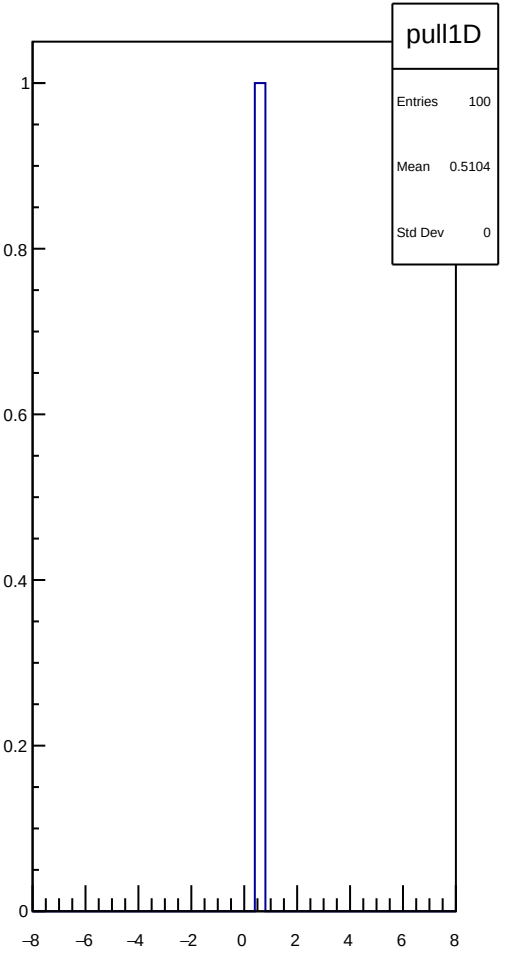

yield_bpm0l05X_rms vs run
χ² / ndf 3.74e+04 / 99
p0 0.003113 ± 2.266e−06
0.012
0.01
0.008
0.006
0.004
0.002

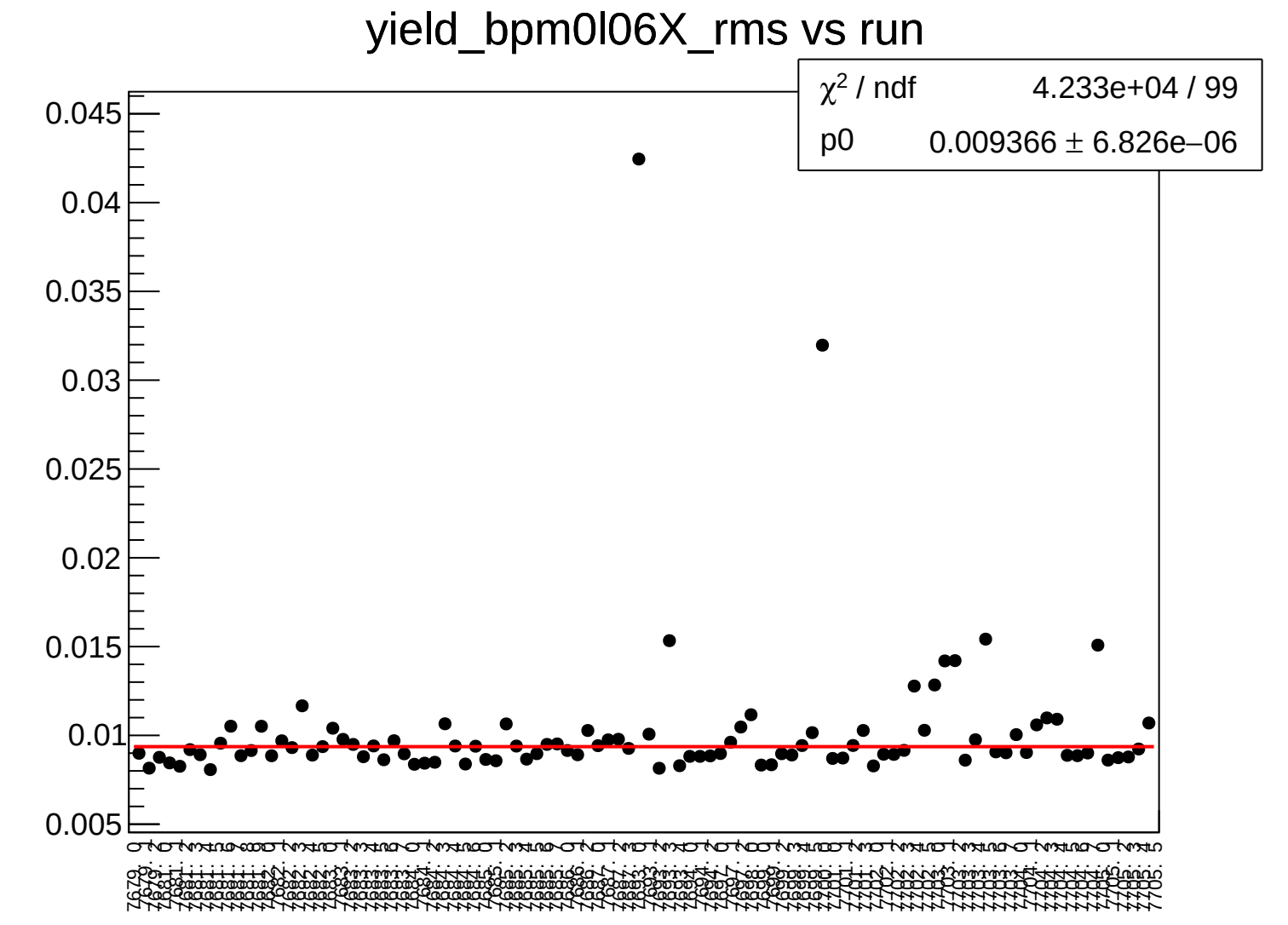

yield_bpm0l05Y_mean vs run
χ² / ndf 2.611e+07 / 99
p0 0.7948 ± 5.074e−06
0.84
0.82
0.8
0.78
0.76
pull
Entries 100
Mean 1121
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800

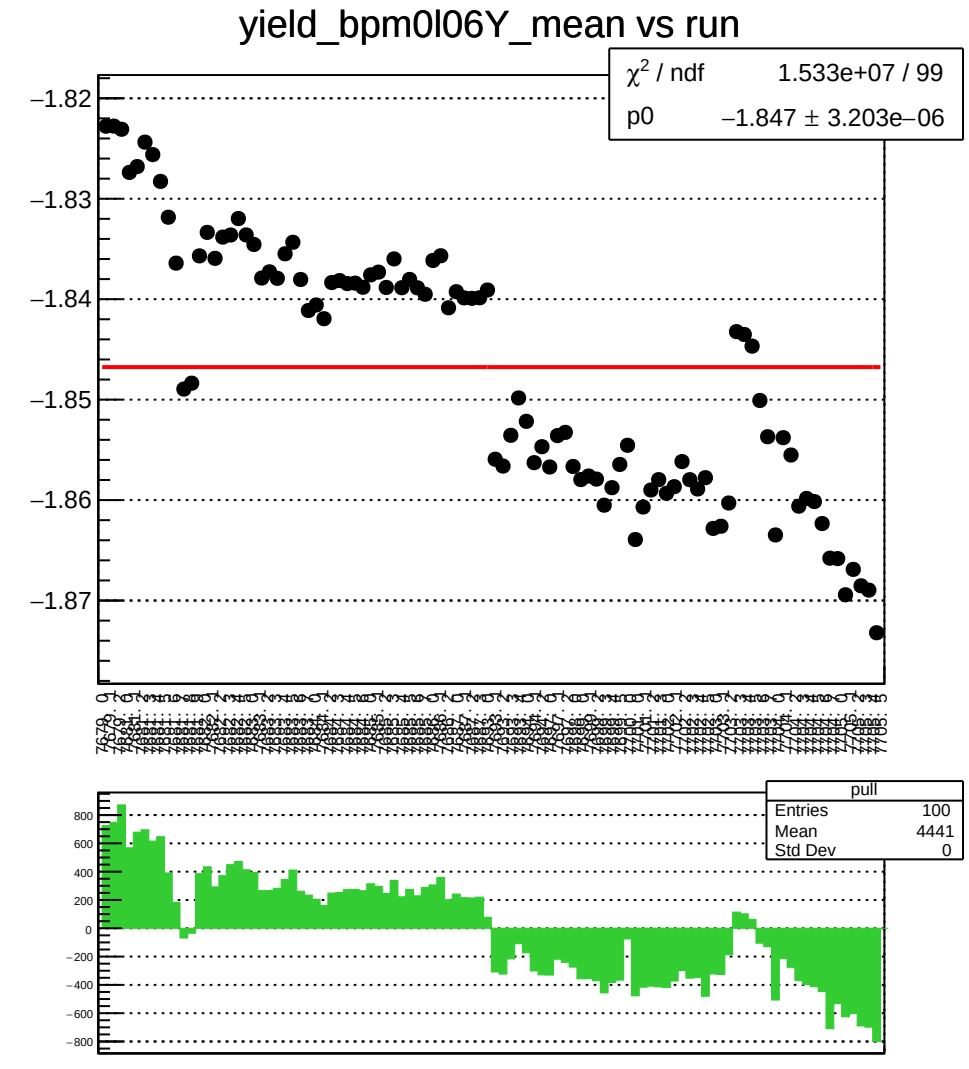

pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

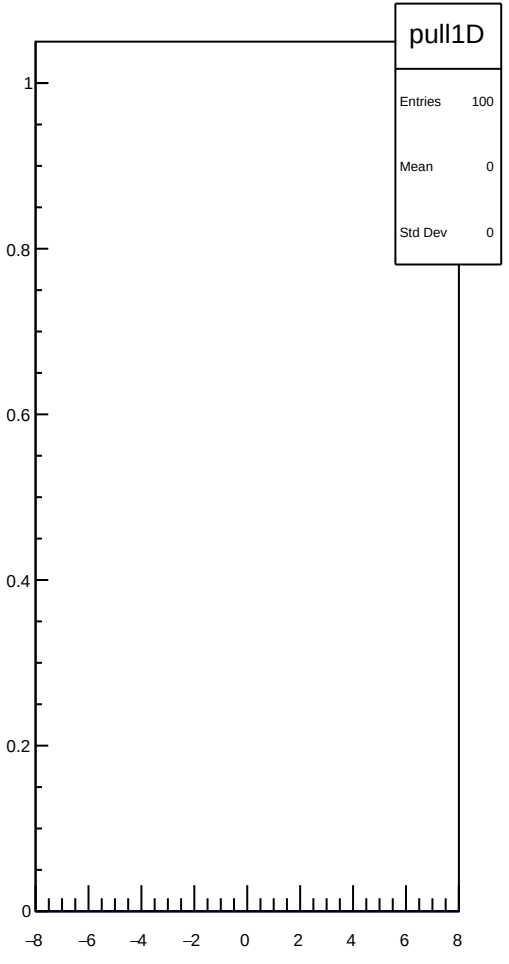

yield_bpm0l05Y_rms vs run
χ² / ndf 6.446e+04 / 99
p0 0.004895 ± 3.588e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004


yield_bpm0l06X_mean vs run
χ² / ndf 1.675e+07 / 99
p0 1.13 ± 9.653e−06
pull
Entries 100
Mean −1.249e+04
Std Dev 0

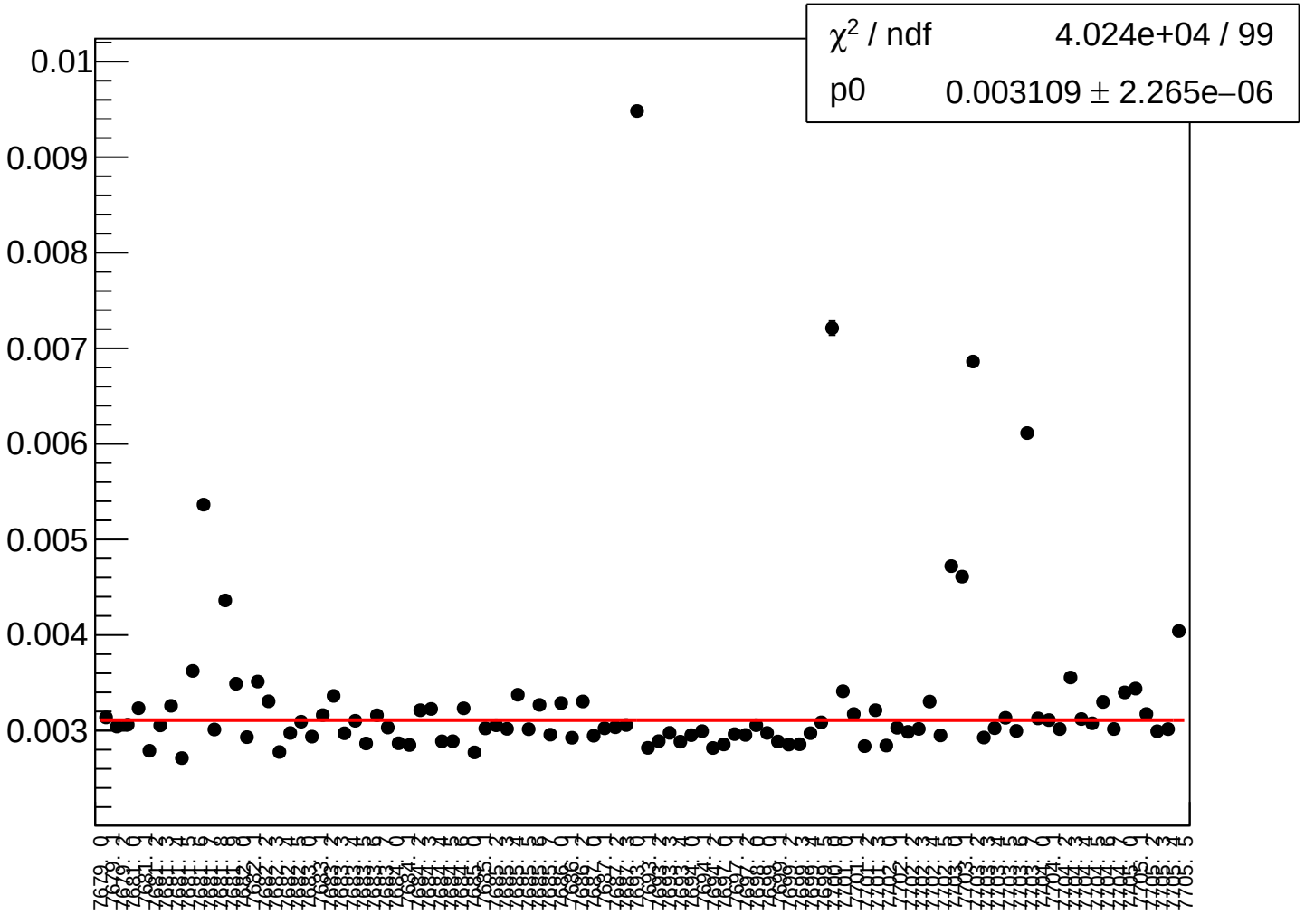

pull1D
Entries 100
Mean 0.5104
Std Dev 0

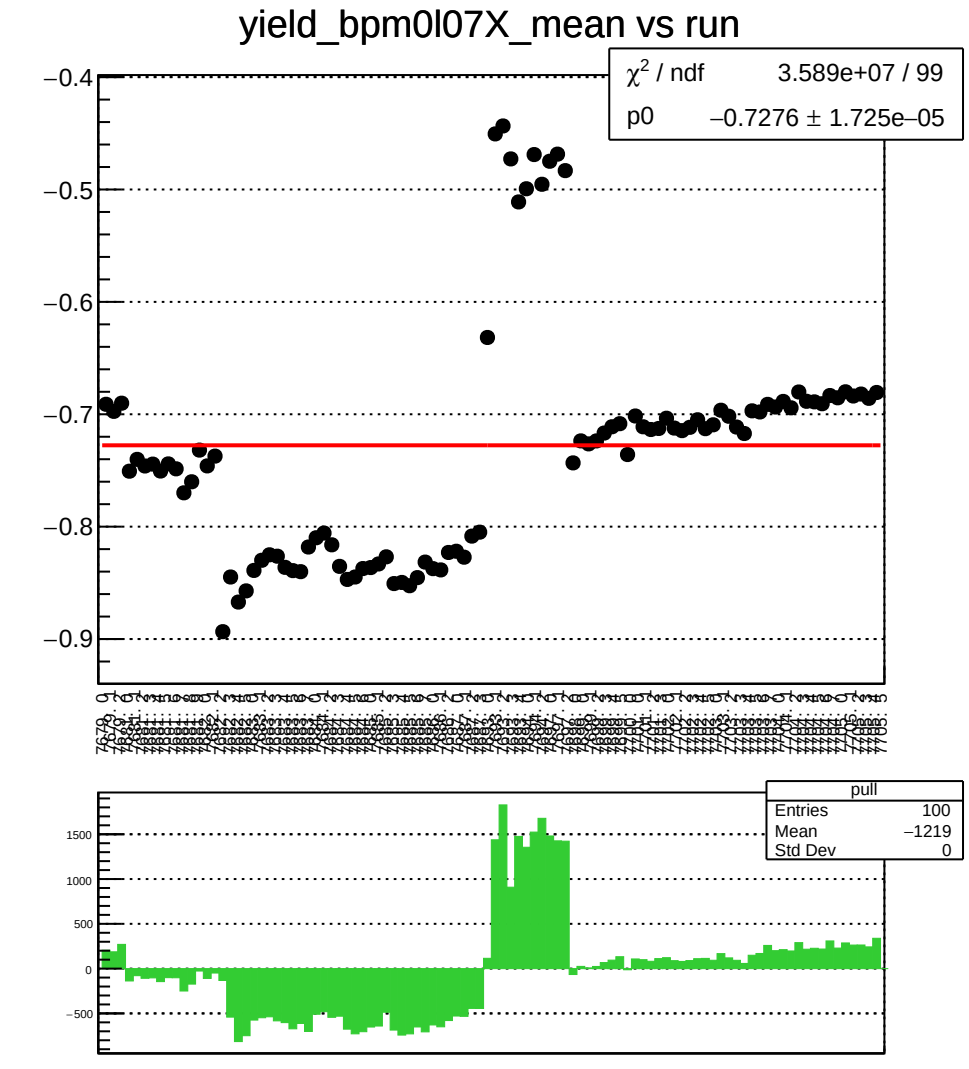

yield_bpm0l06X_rms vs run
χ² / ndf 4.233e+04 / 99
p0 0.009366 ± 6.826e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

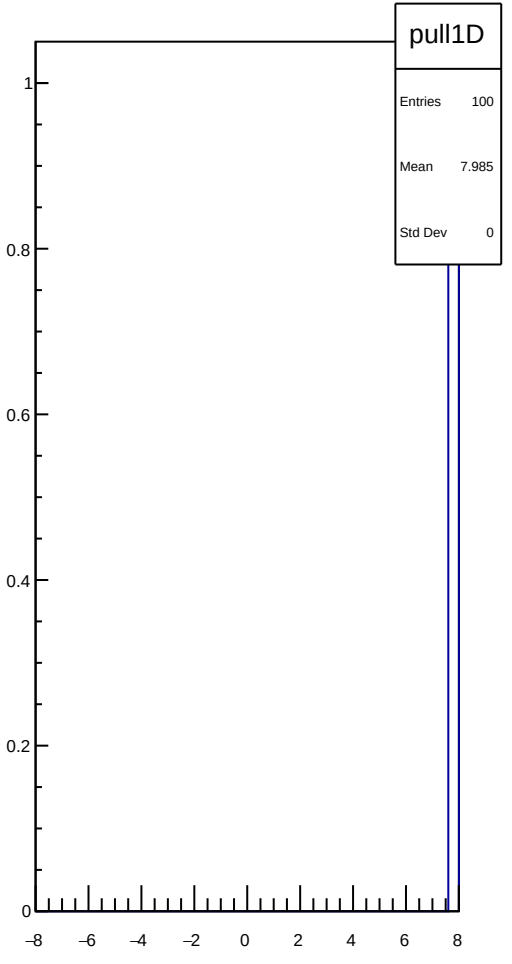

yield_bpm0l06Y_mean vs run
χ² / ndf 1.533e+07 / 99
p0 −1.847 ± 3.203e−06
−1.82
−1.83
−1.84
−1.85
−1.86
−1.87
pull
Entries 100
Mean 4441
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

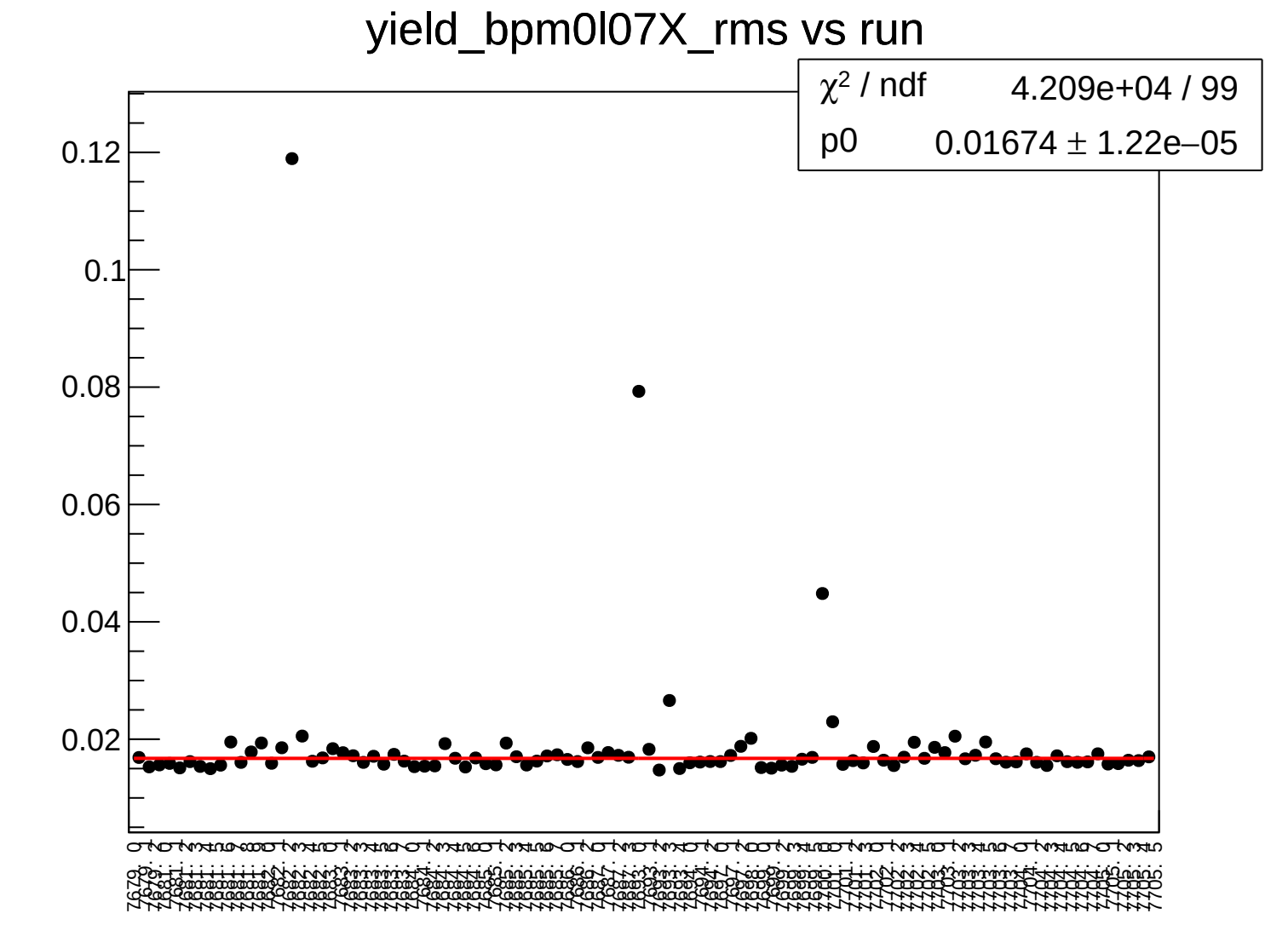

pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

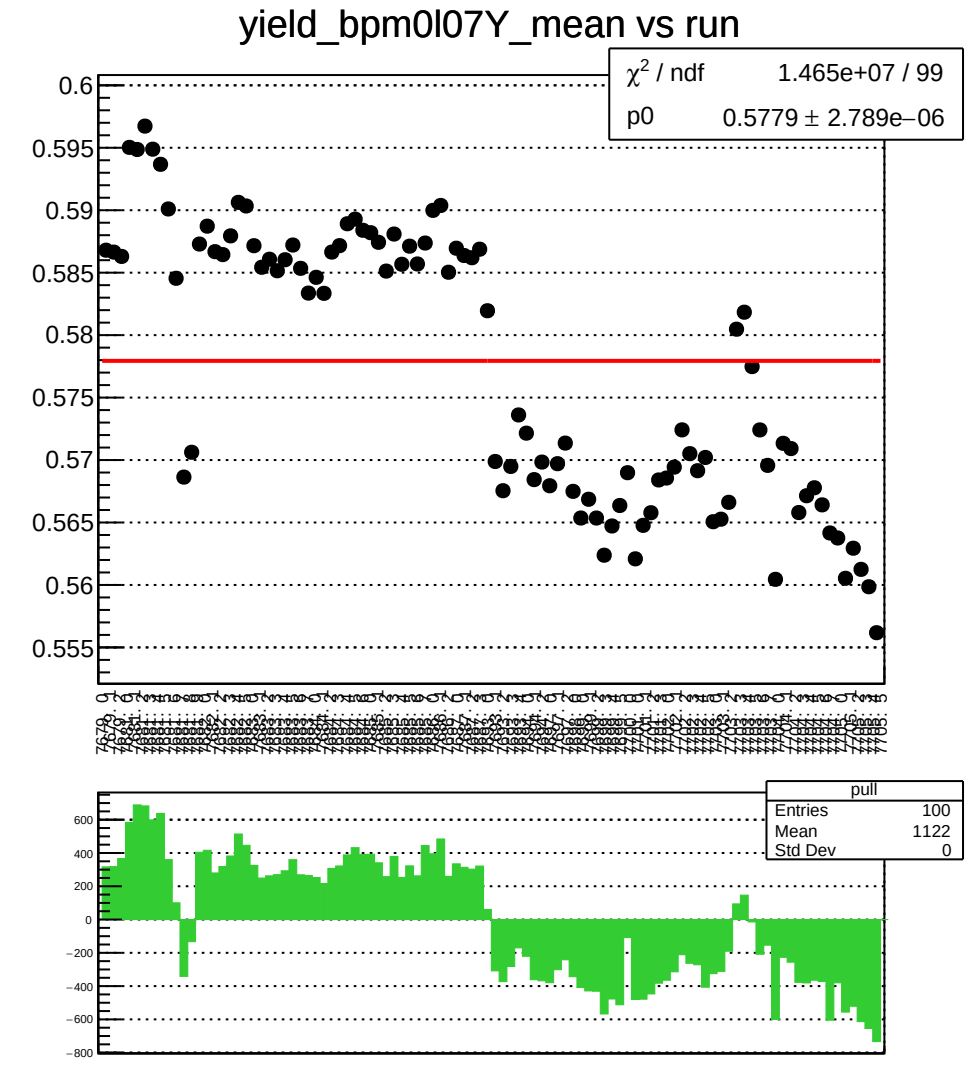
yield_bpm0l06Y_rms vs run

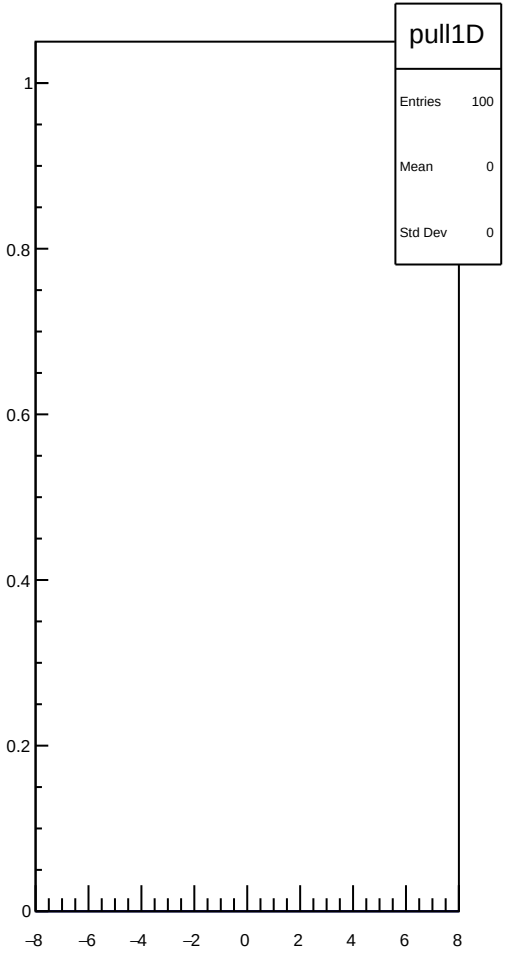


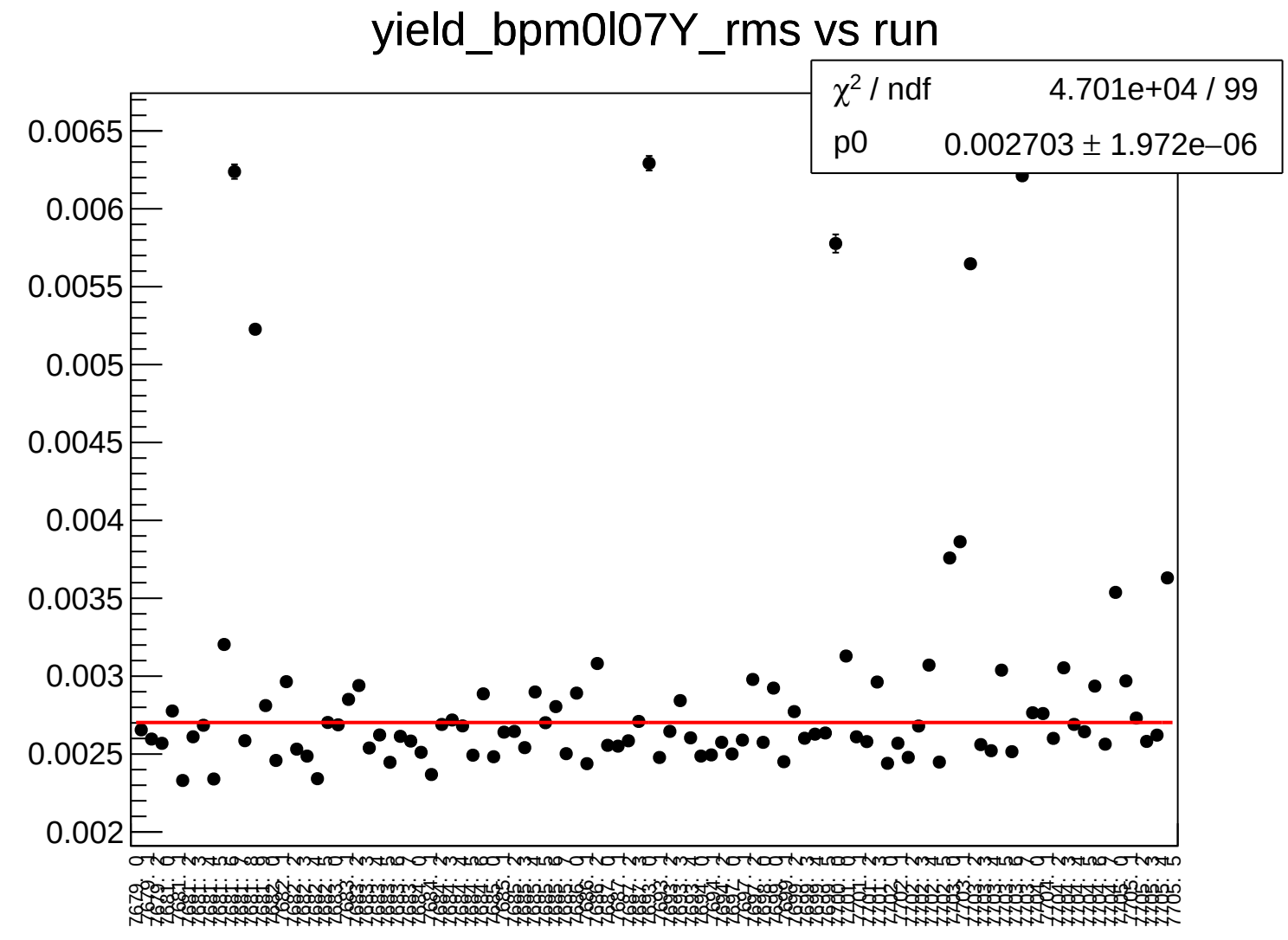

yield_bpm0l07X_mean vs run
χ² / ndf 3.589e+07 / 99
p0 −0.7276 ± 1.725e−05
−0.4
−0.5
−0.6
−0.7
−0.8
−0.9
pull
Entries 100
Mean −1219
Std Dev 0
1500
1000
500
0
−500

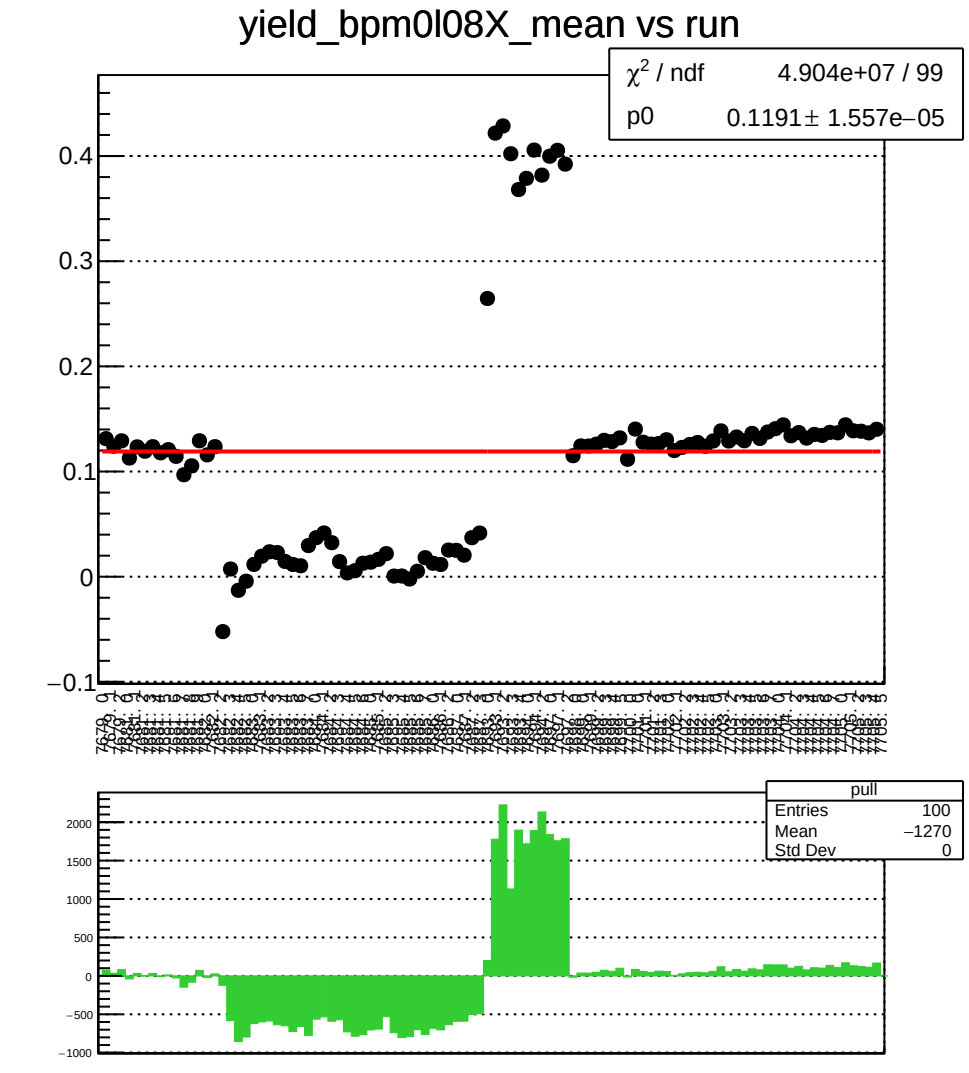

pull1D
Entries 100
Mean 7.985
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

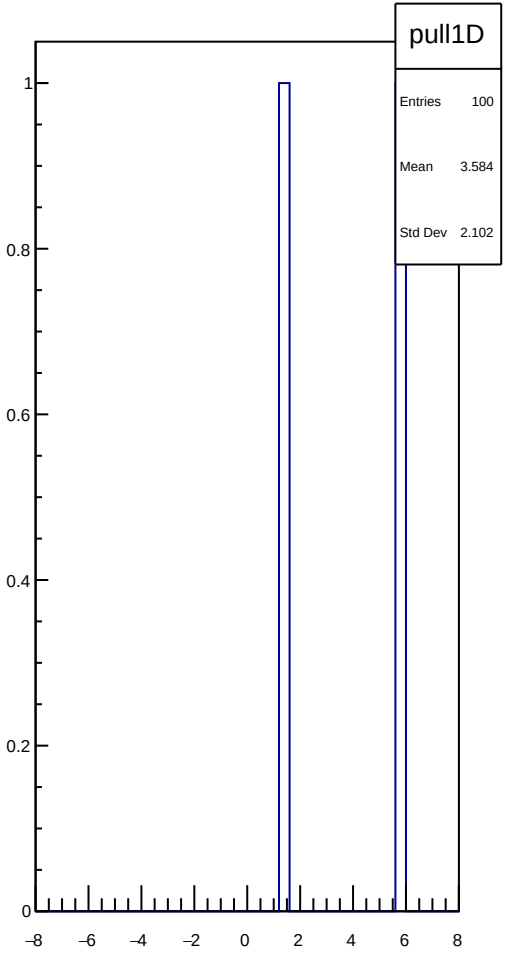

yield_bpm0l07X_rms vs run
χ² / ndf 4.209e+04 / 99
p0 0.01674 ± 1.22e−05
0.12
0.1
0.08
0.06
0.04
0.02

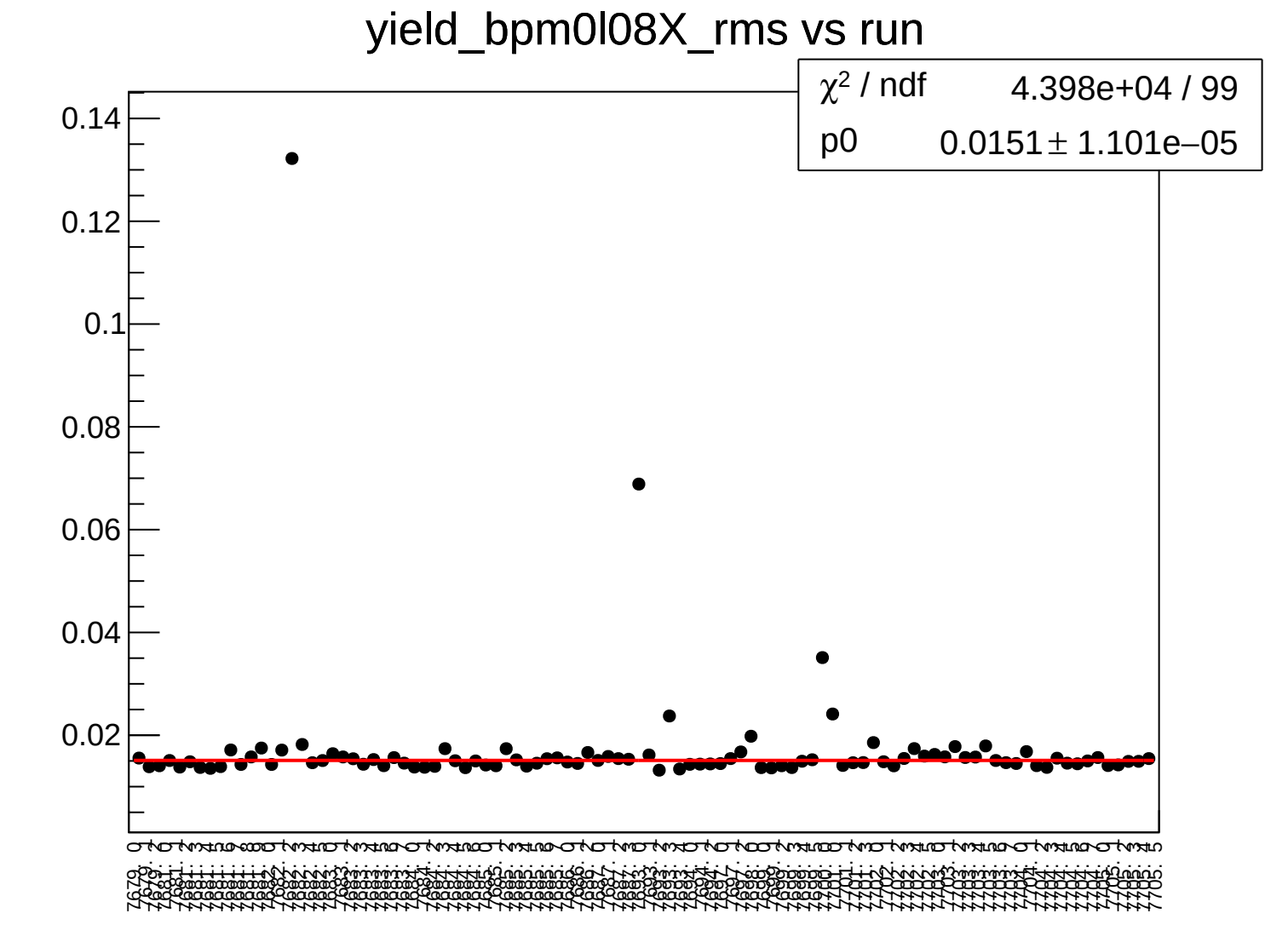

yield_bpm0l07Y_mean vs run
χ² / ndf 1.465e+07 / 99
p0 0.5779 ± 2.789e−06
0.6
0.595
0.59
0.585
0.58
0.575
0.57
0.565
0.56
0.555
pull
Entries 100
Mean 1122
Std Dev 0
600
400
200
0
−200
−400
−600
−800

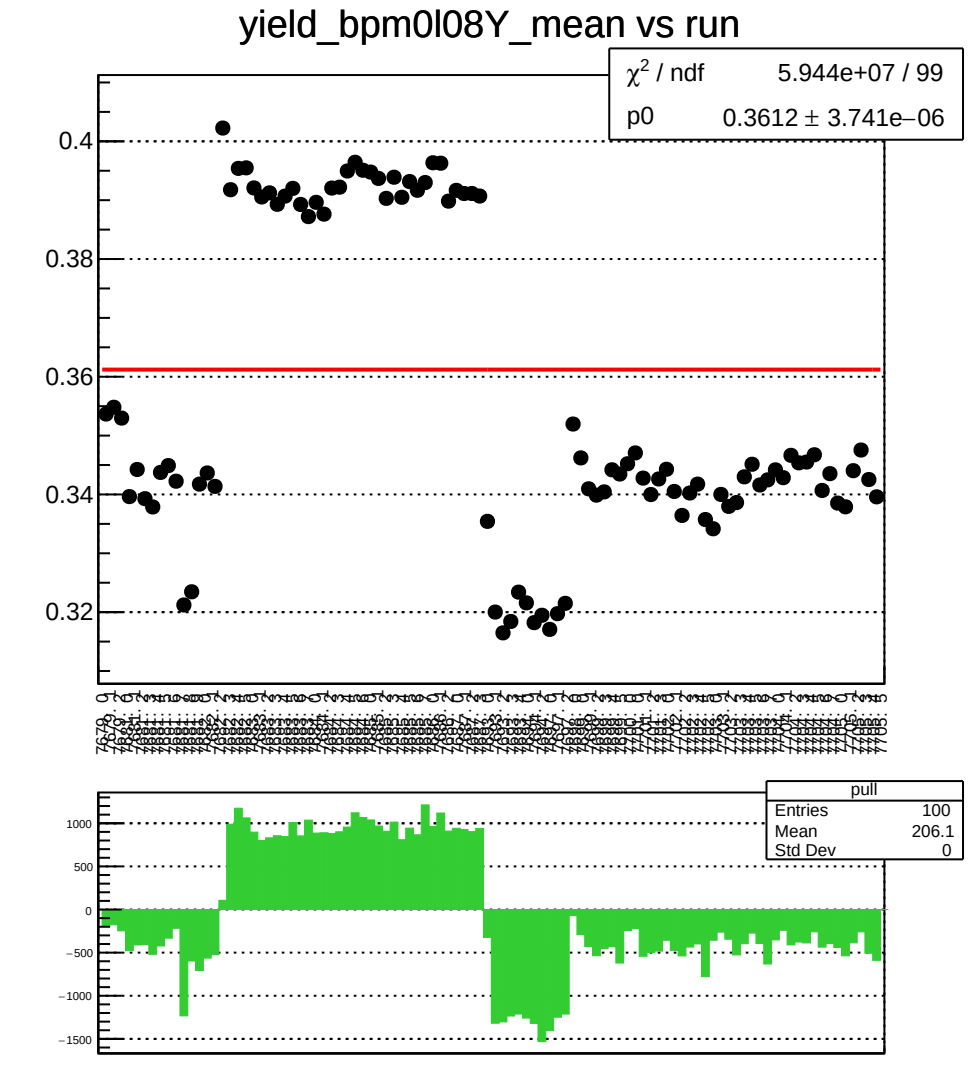

pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

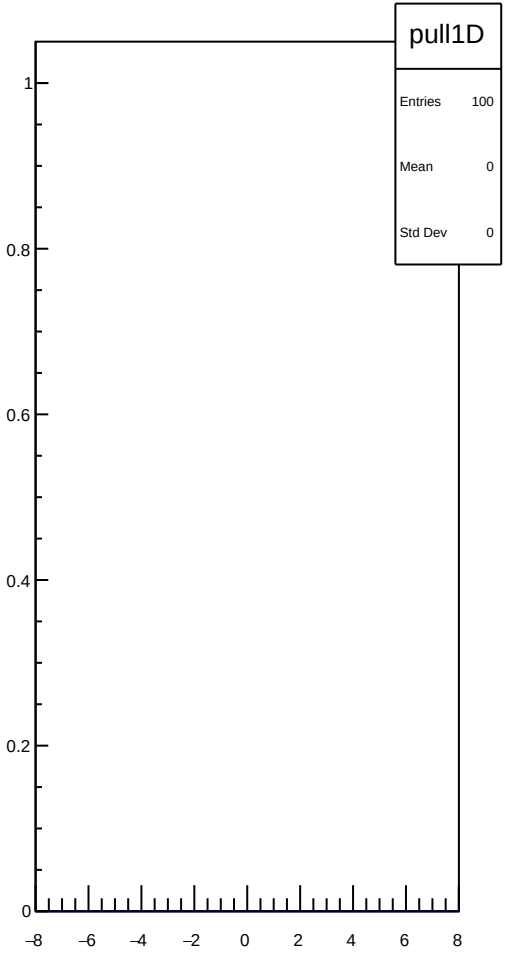

yield_bpm0l07Y_rms vs run
χ² / ndf 4.701e+04 / 99
p0 0.002703 ± 1.972e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

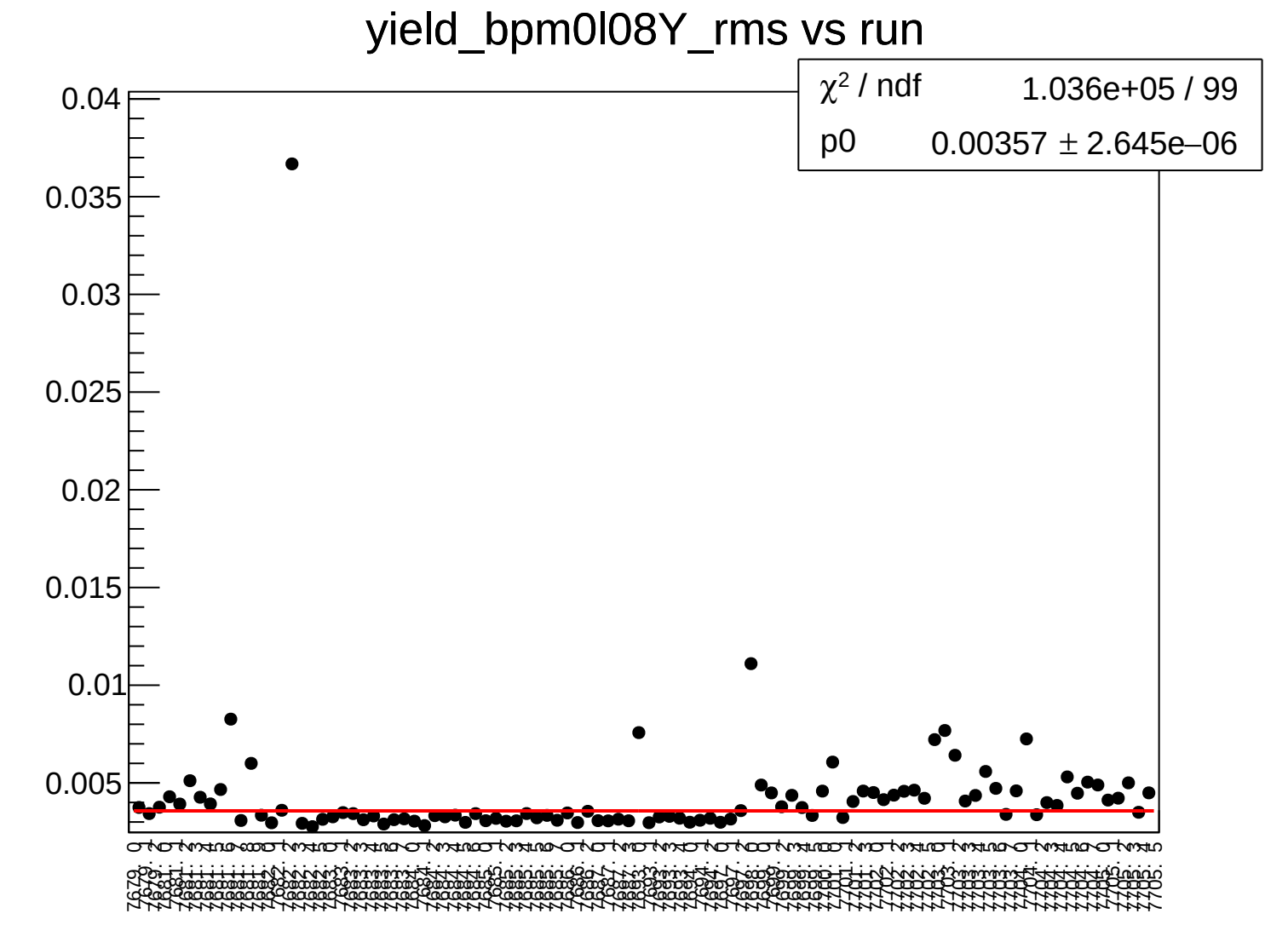

yield_bpm0l08X_mean vs run
χ² / ndf 4.904e+07 / 99
p0 0.1191 ± 1.557e−05
0.4
0.3
0.2
0.1
0
−0.1
pull
Entries 100
Mean −1270
Std Dev 0
2000
1500
1000
500
0
−500
−1000

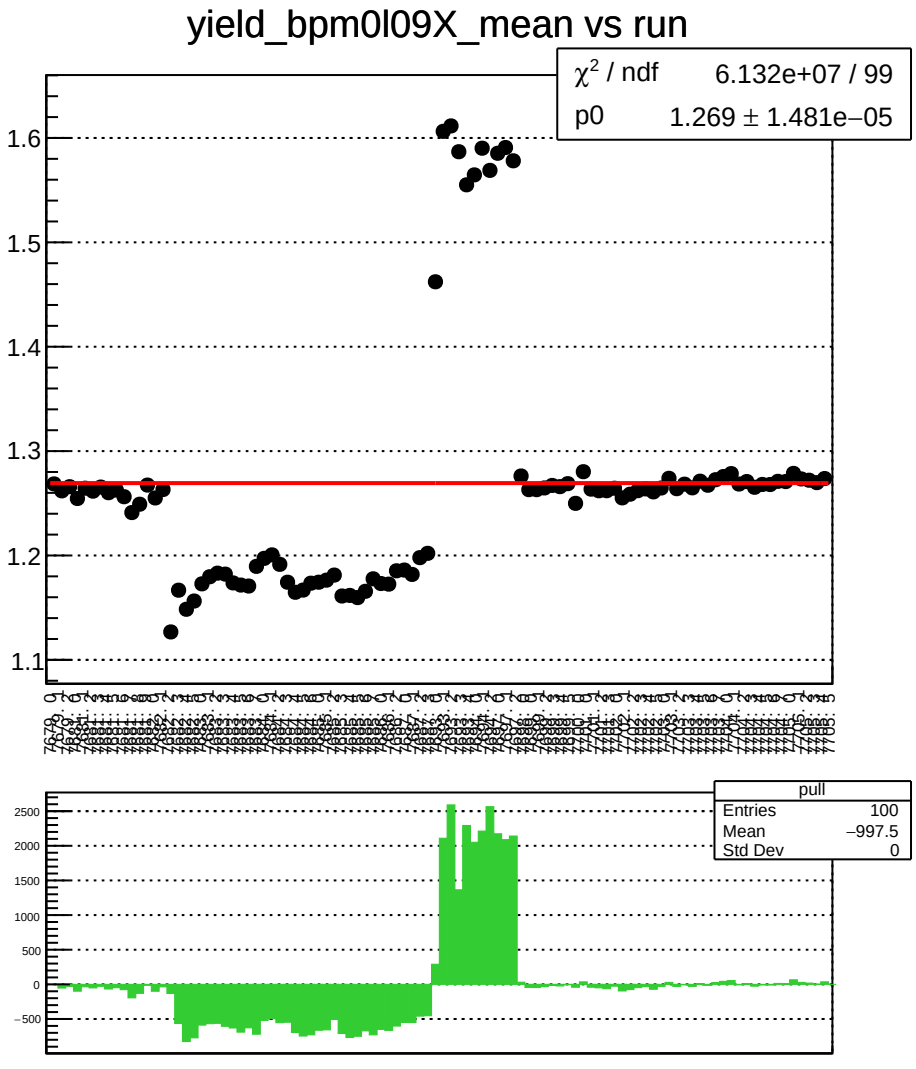

pull1D
Entries 100
Mean 3.584
Std Dev 2.102
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

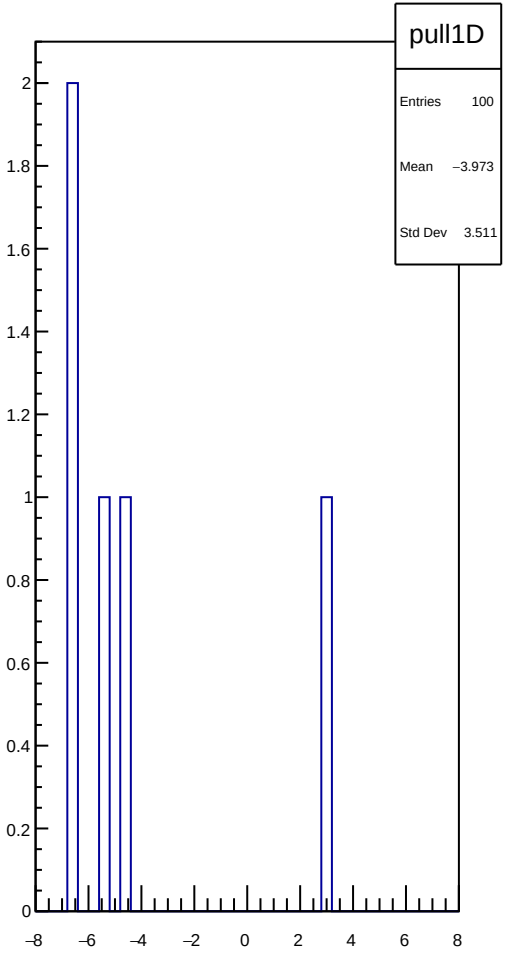

yield_bpm0l08X_rms vs run
χ² / ndf 4.398e+04 / 99
p0 0.0151 ± 1.101e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

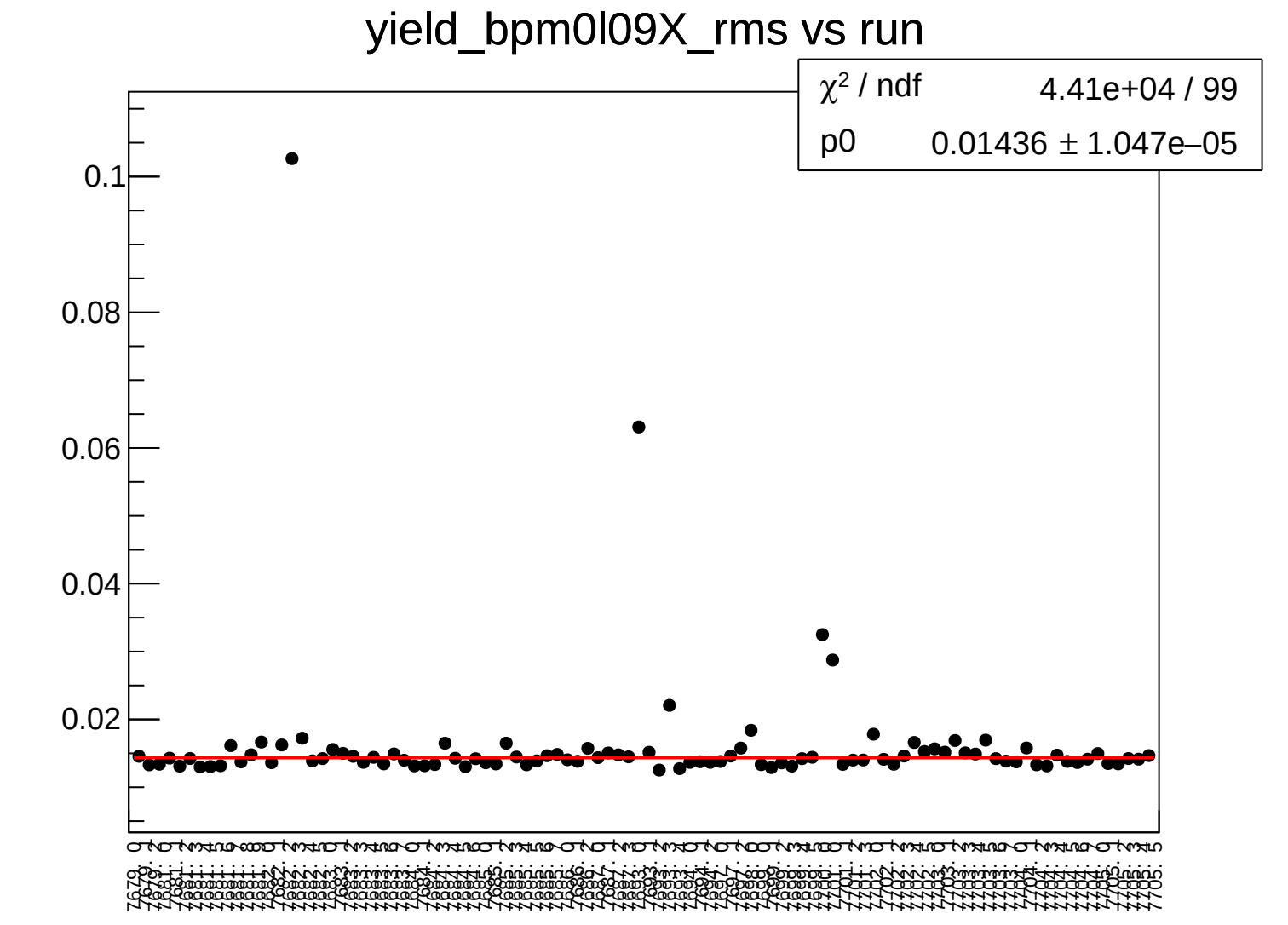

yield_bpm0l08Y_mean vs run
χ² / ndf 5.944e+07 / 99
p0 0.3612 ± 3.741e−06
0.4
0.38
0.36
0.34
0.32
pull
Entries 100
Mean 206.1
Std Dev 0
1000
500
0
−500
−1000
−1500

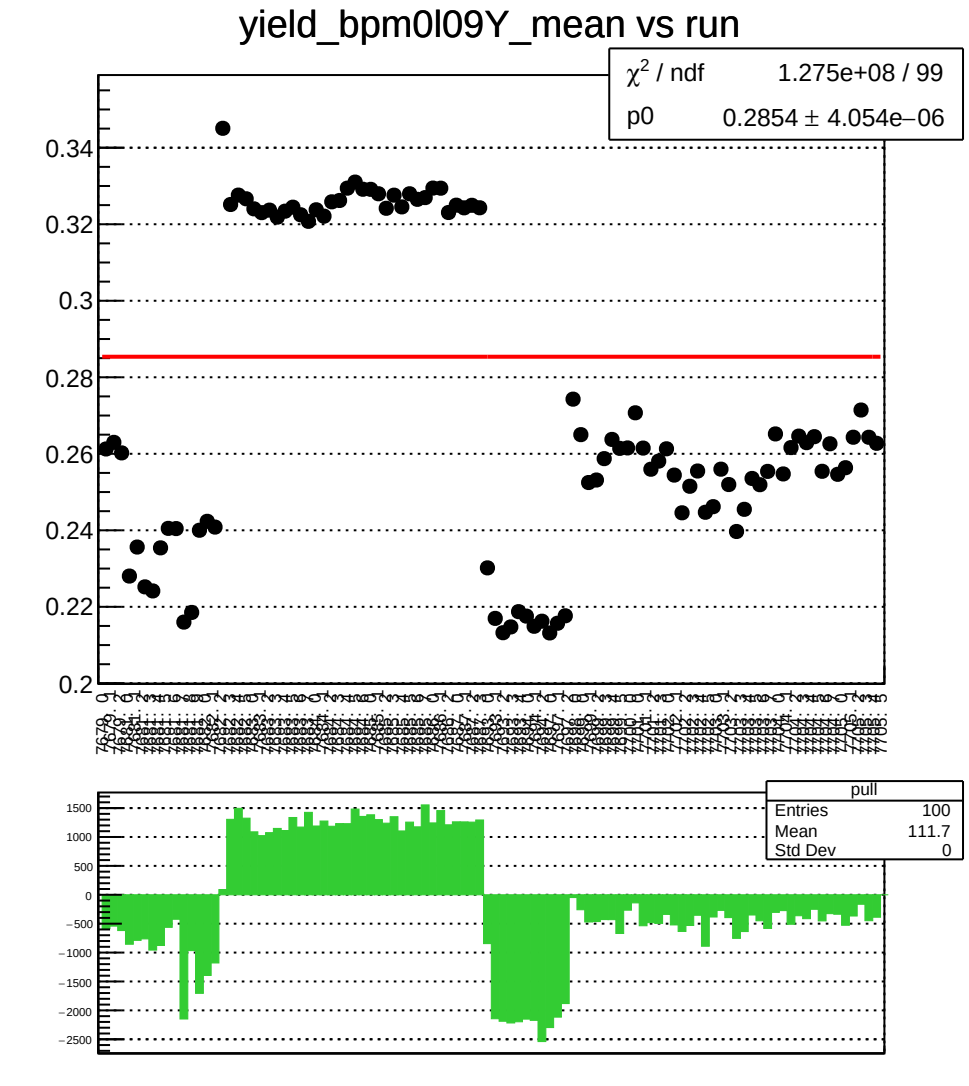

pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

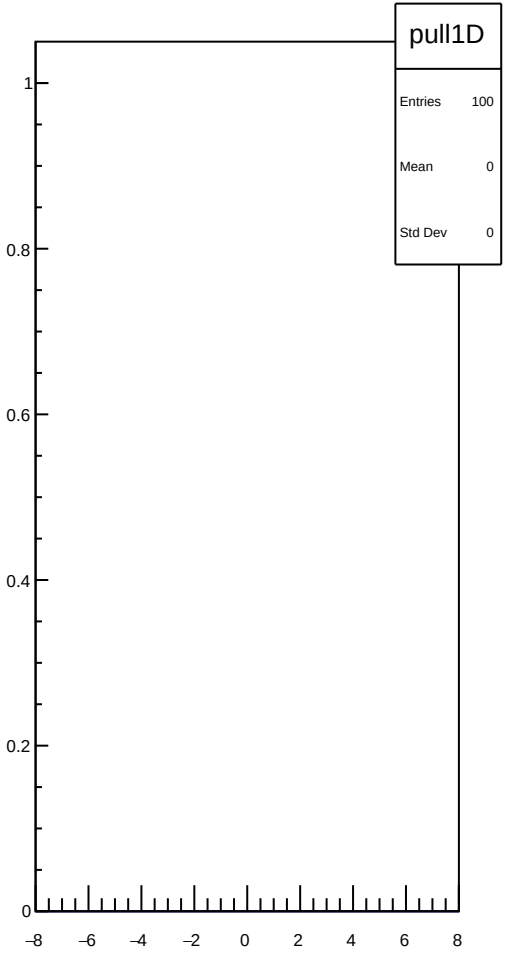

yield_bpm0l08Y_rms vs run
χ² / ndf 1.036e+05 / 99
p0 0.00357 ± 2.645e–06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

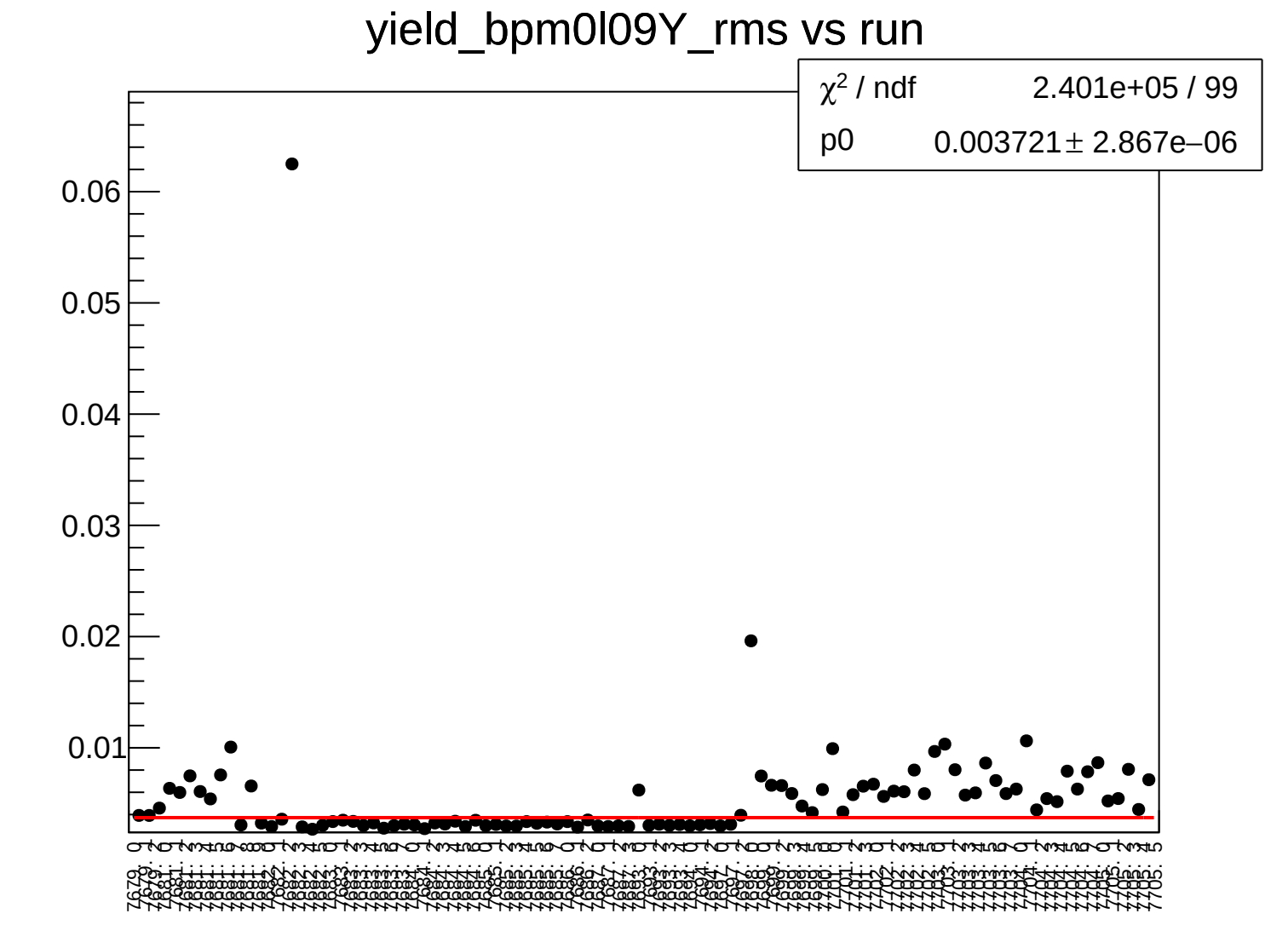

yield_bpm0l09X_mean vs run
χ² / ndf 6.132e+07 / 99
p0 1.269 ± 1.481e−05
1.6
1.5
1.4
1.3
1.2
1.1
pull
Entries 100
Mean −997.5
Std Dev 0
2500
2000
1500
1000
500
0
−500

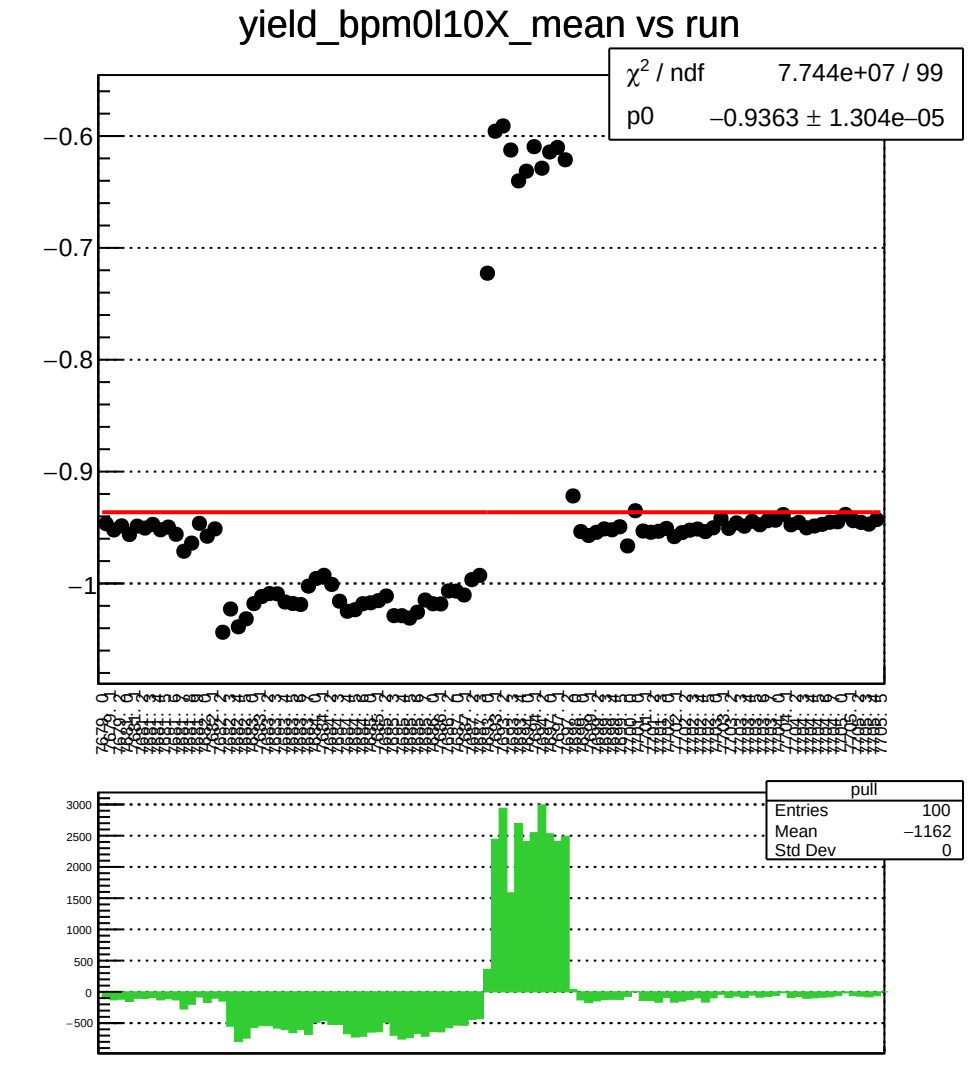

pull1D
Entries 100
Mean −3.973
Std Dev 3.511
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

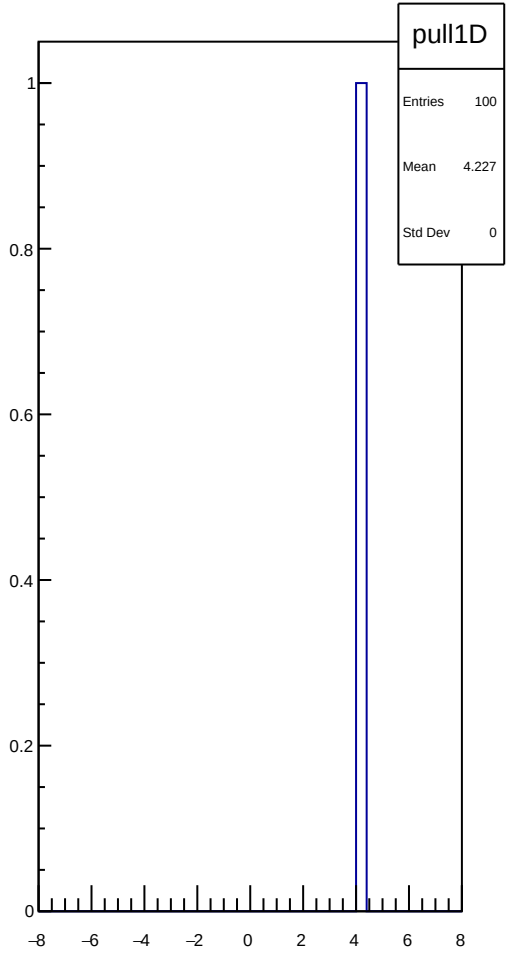

yield_bpm0l09X_rms vs run
χ² / ndf 4.41e+04 / 99
p0 0.01436 ± 1.047e–05
0.1
0.08
0.06
0.04
0.02

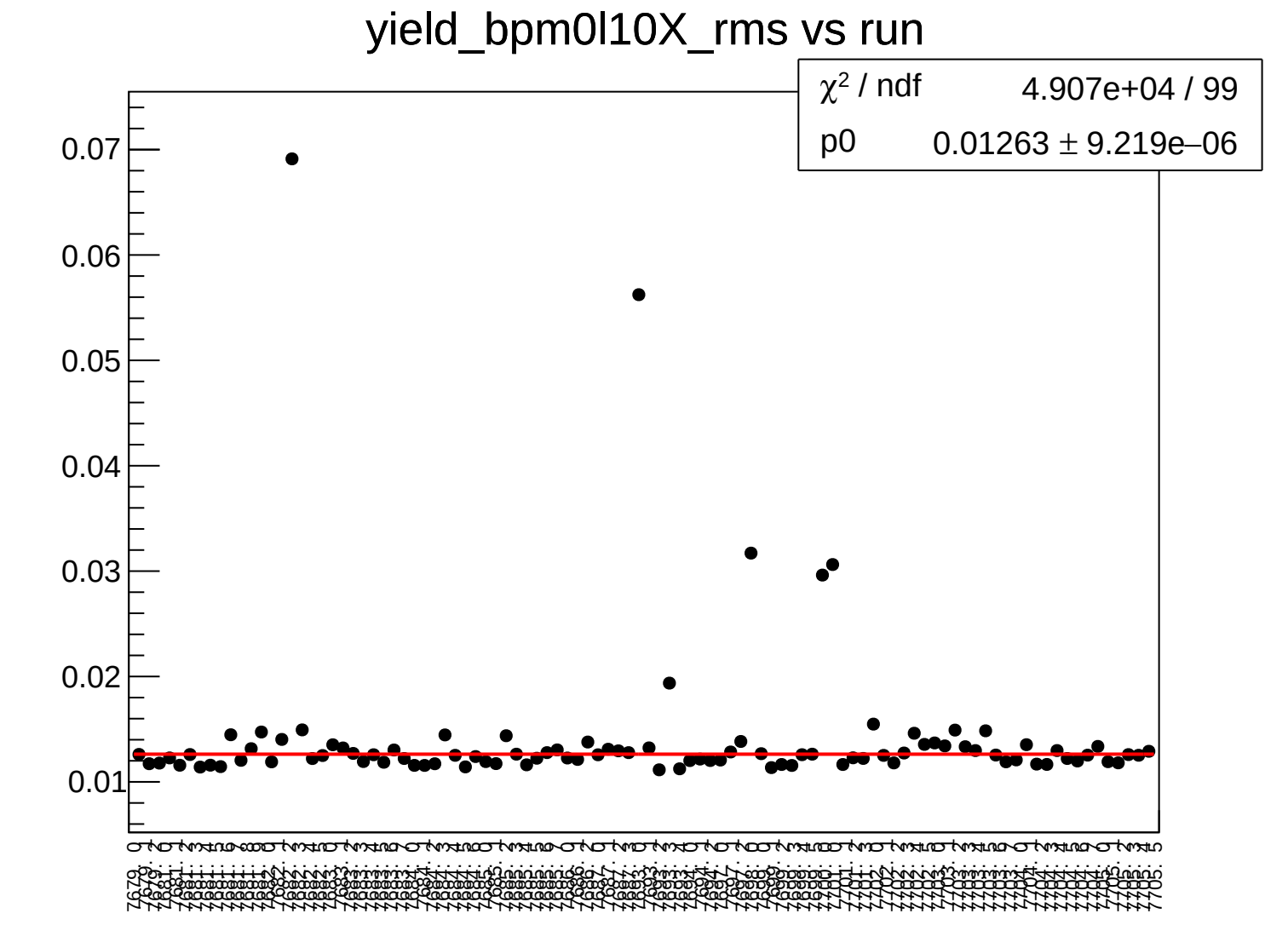

yield_bpm0l09Y_mean vs run
χ² / ndf 1.275e+08 / 99
p0 0.2854 ± 4.054e−06
0.34
0.32
0.3
0.28
0.26
0.24
0.22
0.2
pull
Entries 100
Mean 111.7
Std Dev 0
1500
1000
500
0
−500
−1000
−1500
−2000
−2500

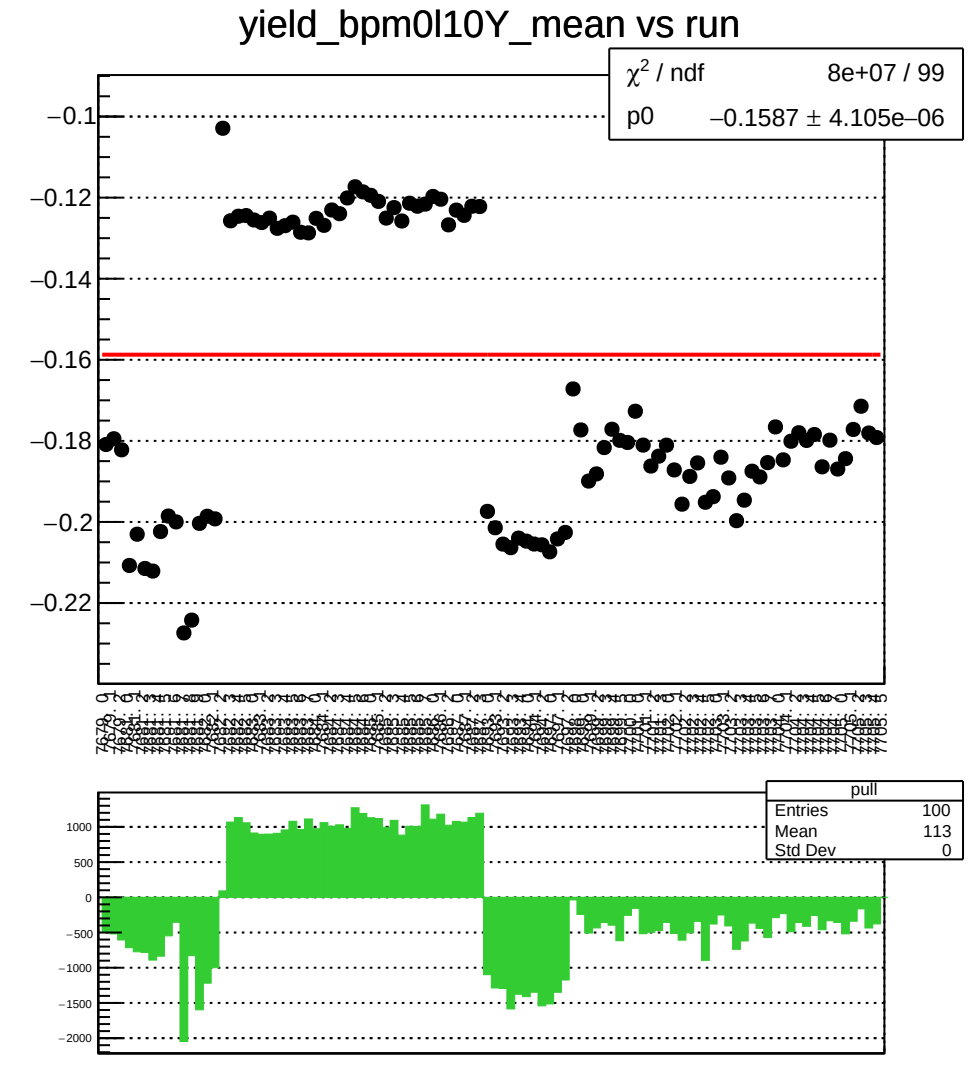

pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

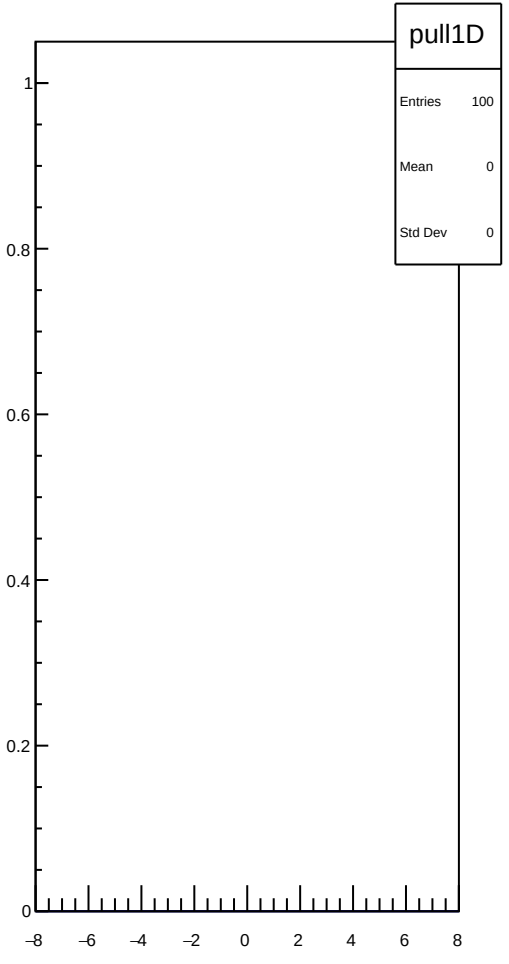

yield_bpm0l09Y_rms vs run
χ² / ndf 2.401e+05 / 99
p0 0.003721 ± 2.867e−06
0.06
0.05
0.04
0.03
0.02
0.01

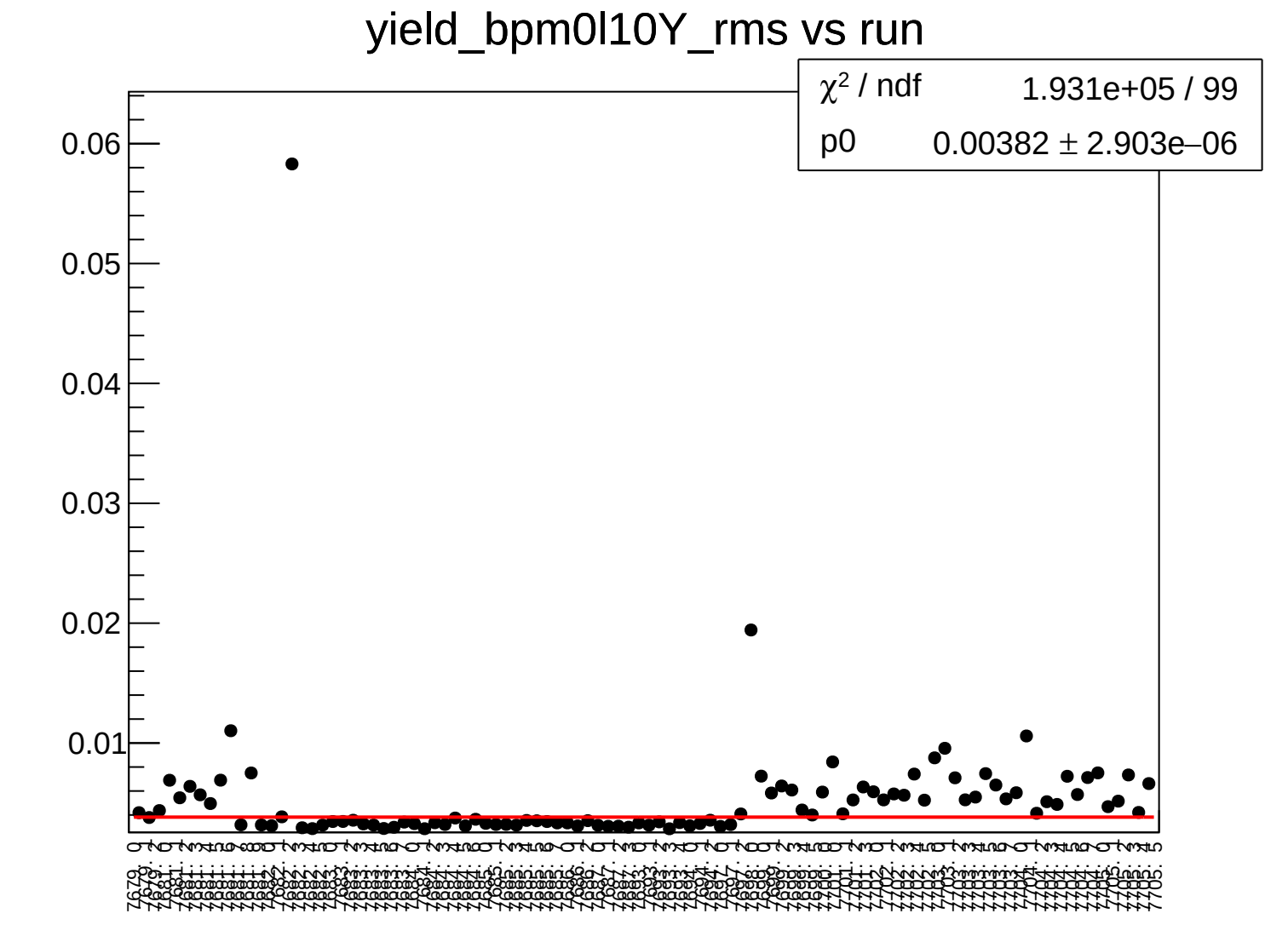

yield_bpm0l10X_mean vs run
χ² / ndf 7.744e+07 / 99
p0 −0.9363 ± 1.304e−05
−0.6
−0.7
−0.8
−0.9
−1
pull
Entries 100
Mean −1162
Std Dev 0
3000
2500
2000
1500
1000
500
0
−500

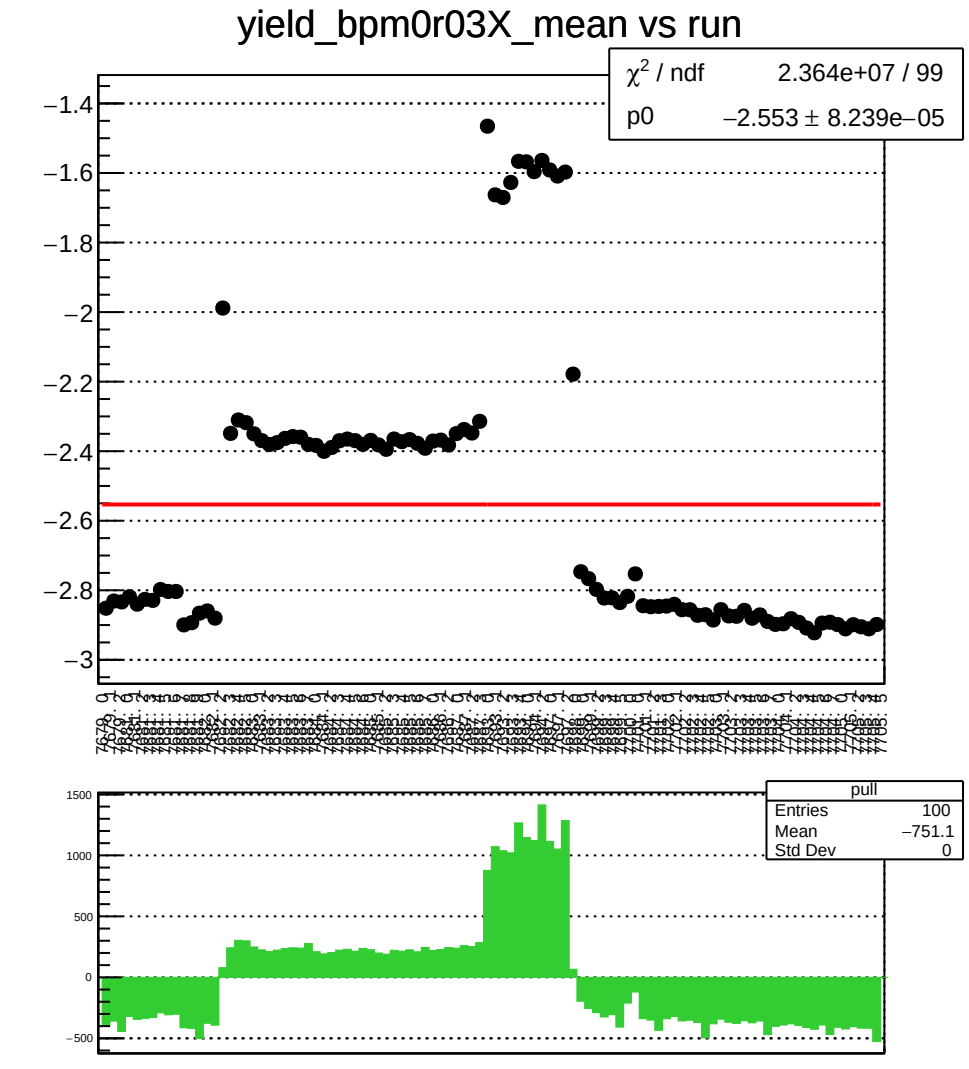

pull1D
Entries 100
Mean 4.227
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

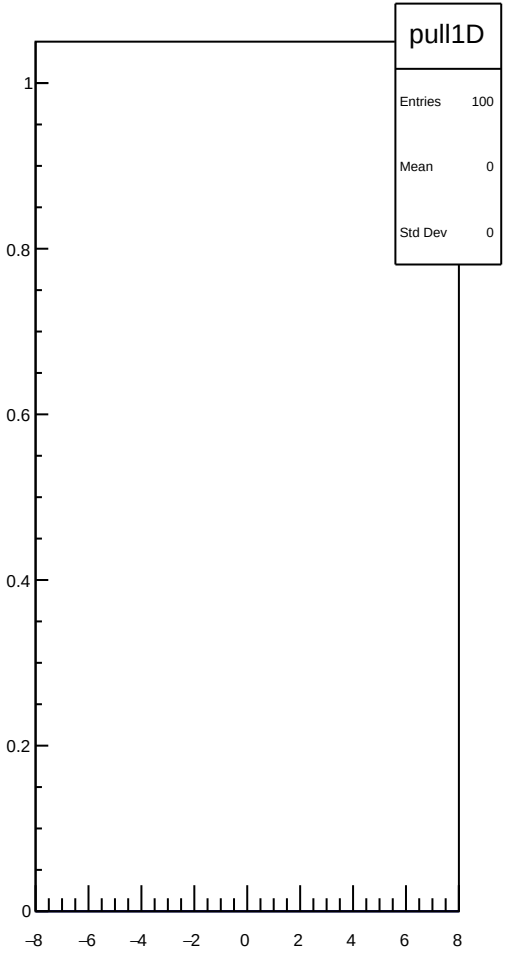

yield_bpm0l10X_rms vs run
χ² / ndf 4.907e+04 / 99
p0 0.01263 ± 9.219e–06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

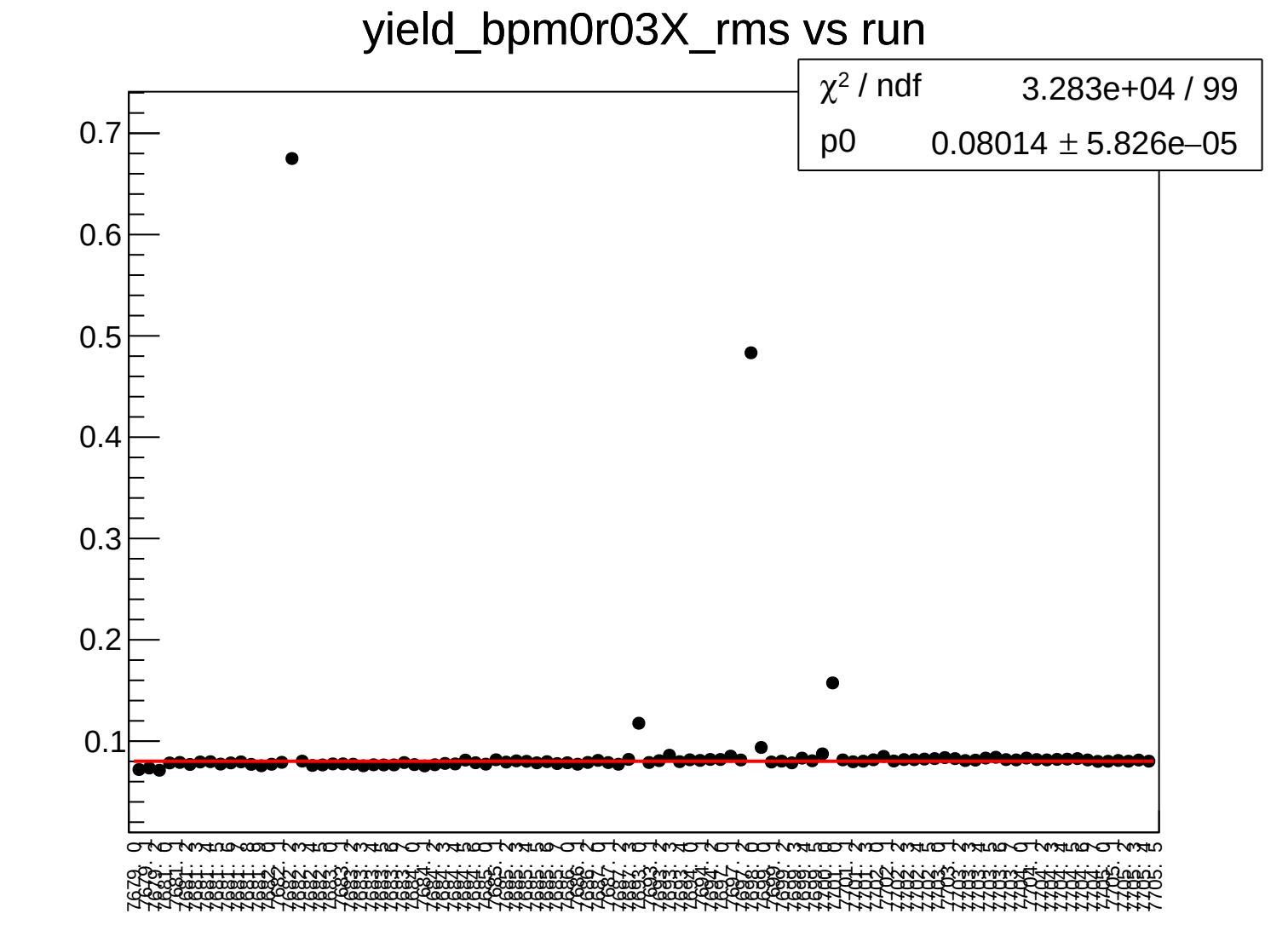

yield_bpm0l10Y_mean vs run
χ² / ndf 8e+07 / 99
p0 −0.1587 ± 4.105e−06
−0.1
−0.12
−0.14
−0.16
−0.18
−0.2
−0.22
pull
Entries 100
Mean 113
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000

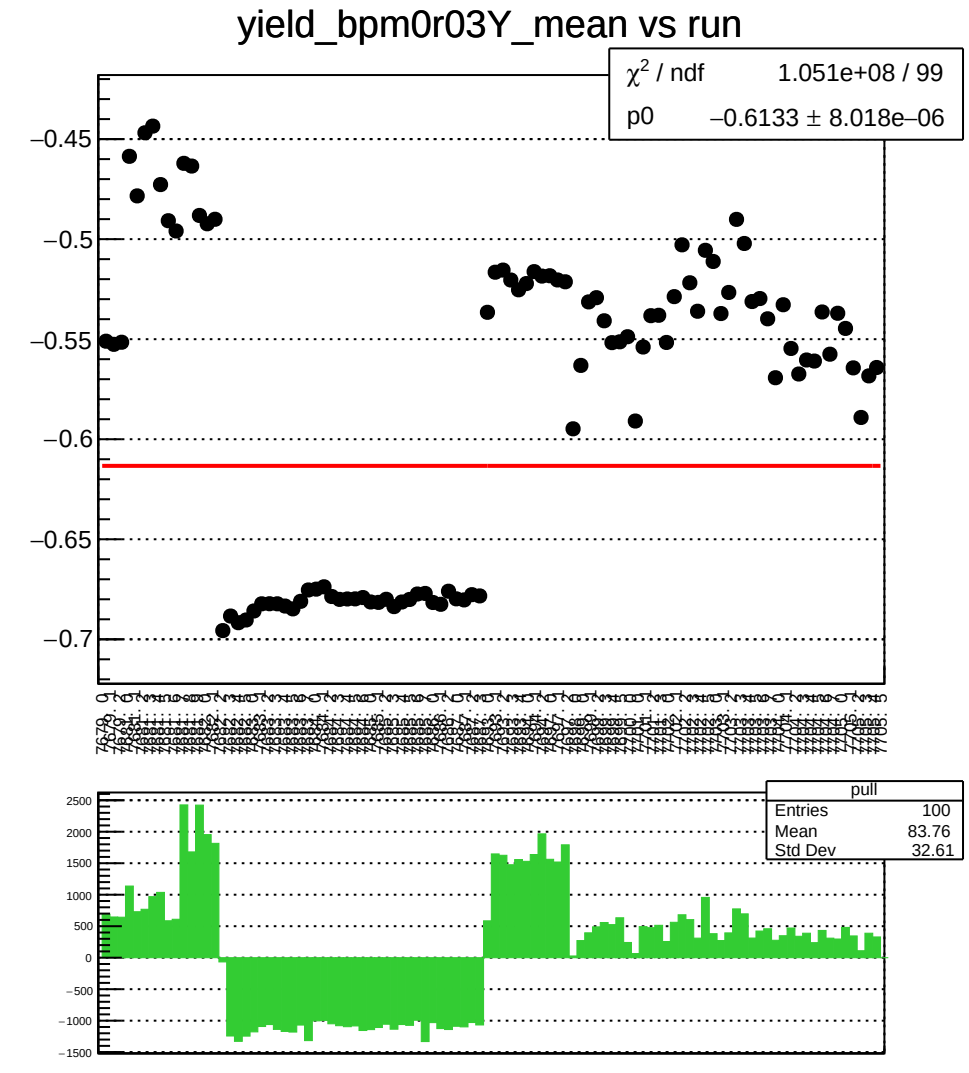

pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

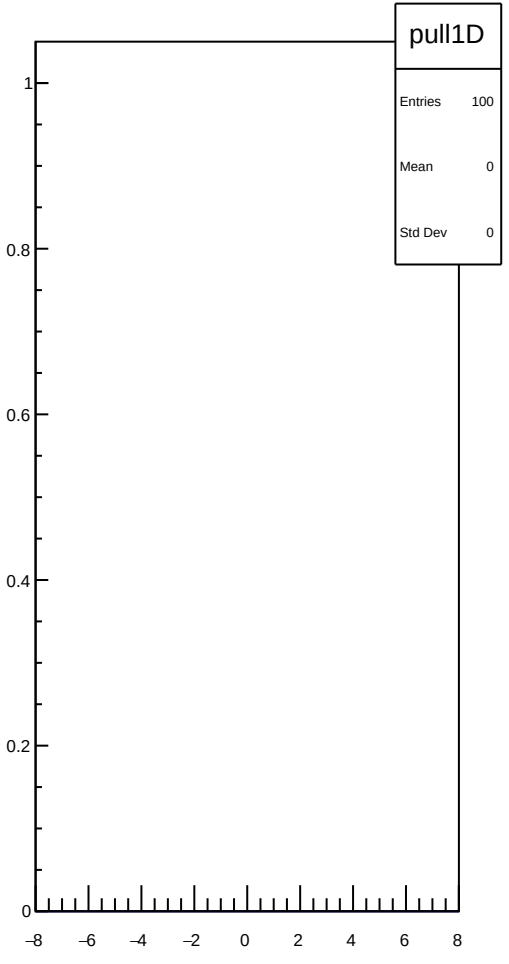

yield_bpm0l10Y_rms vs run
χ² / ndf 1.931e+05 / 99
p0 0.00382 ± 2.903e–06
0.06
0.05
0.04
0.03
0.02
0.01

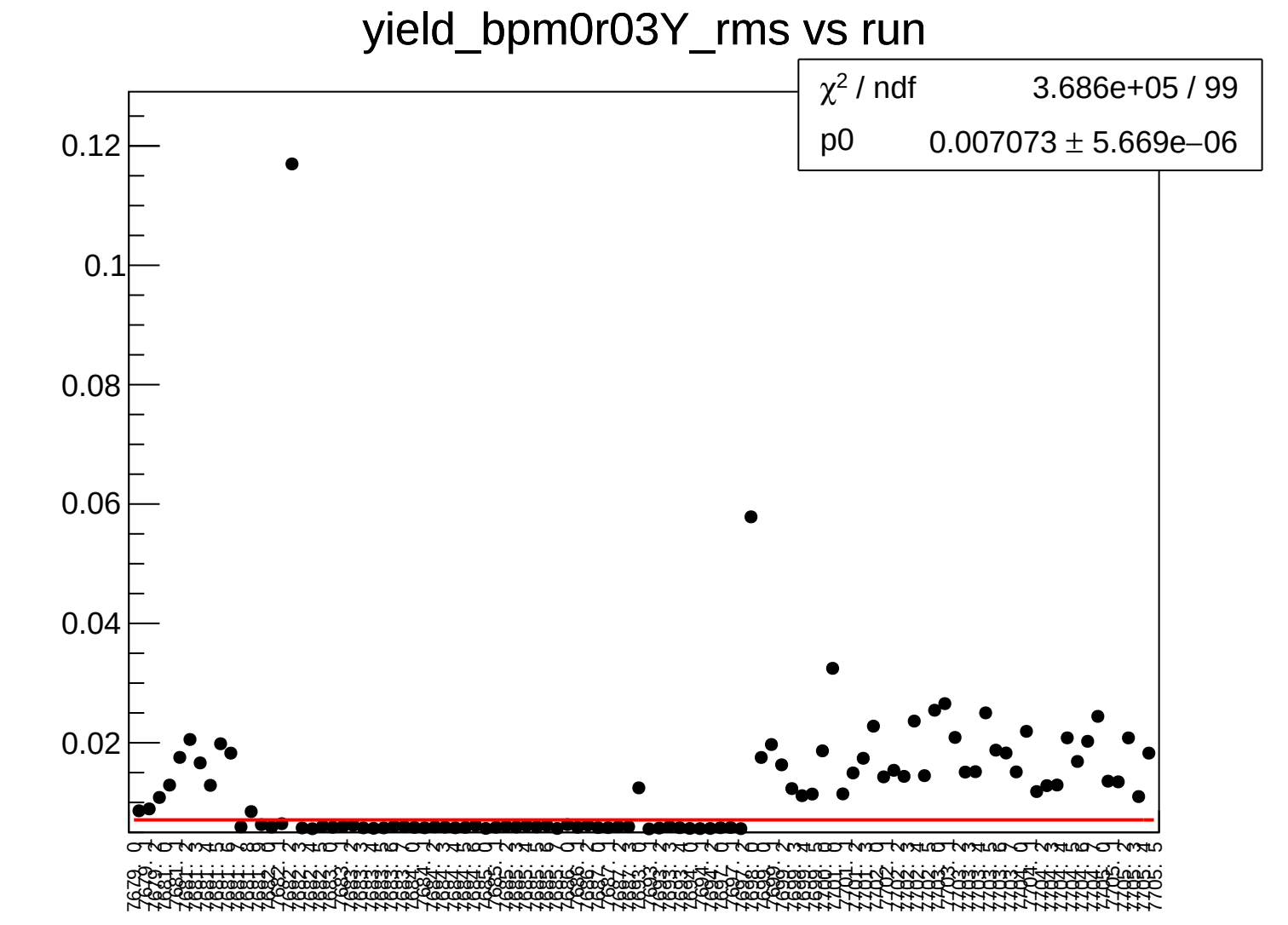

yield_bpm0r03X_mean vs run
χ² / ndf 2.364e+07 / 99
p0 −2.553 ± 8.239e−05
−1.4
−1.6
−1.8
−2
−2.2
−2.4
−2.6
−2.8
−3
pull
Entries 100
Mean −751.1
Std Dev 0
1500
1000
500
0
−500

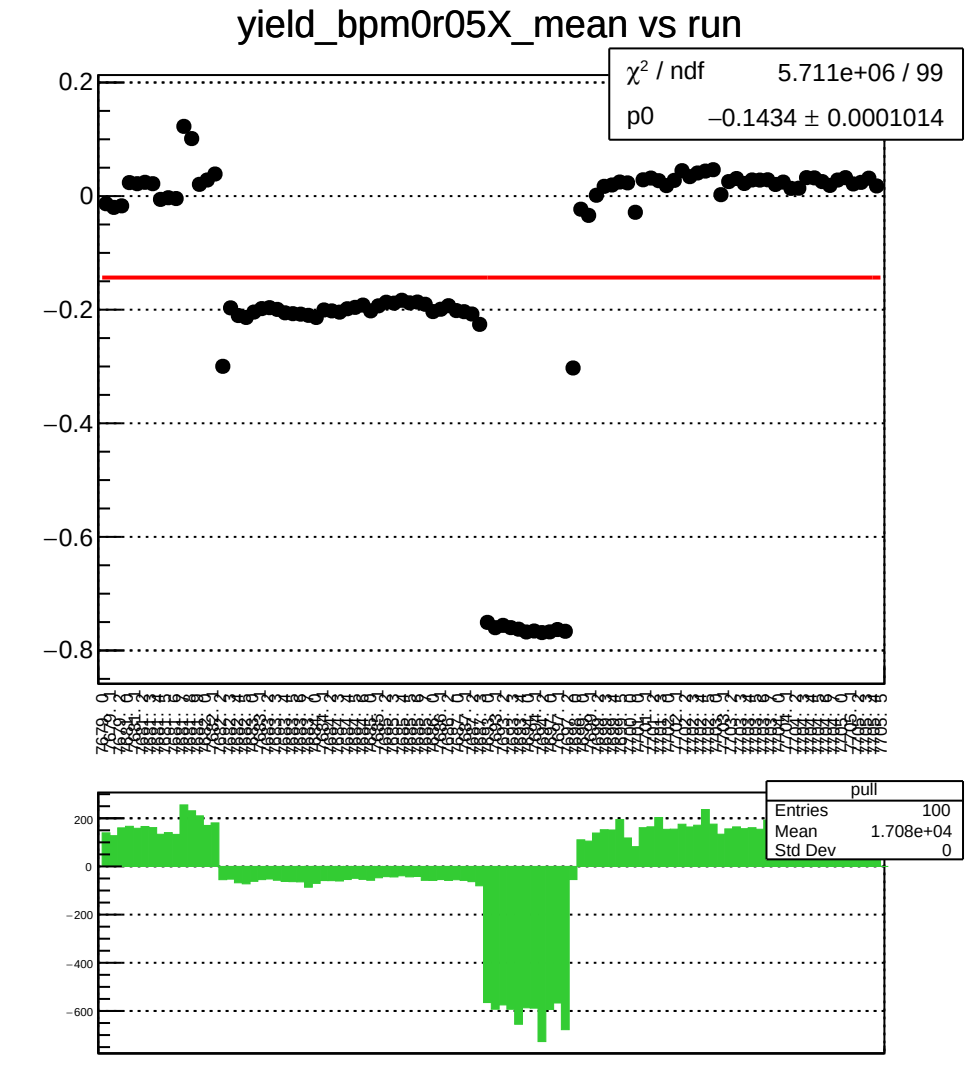

pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

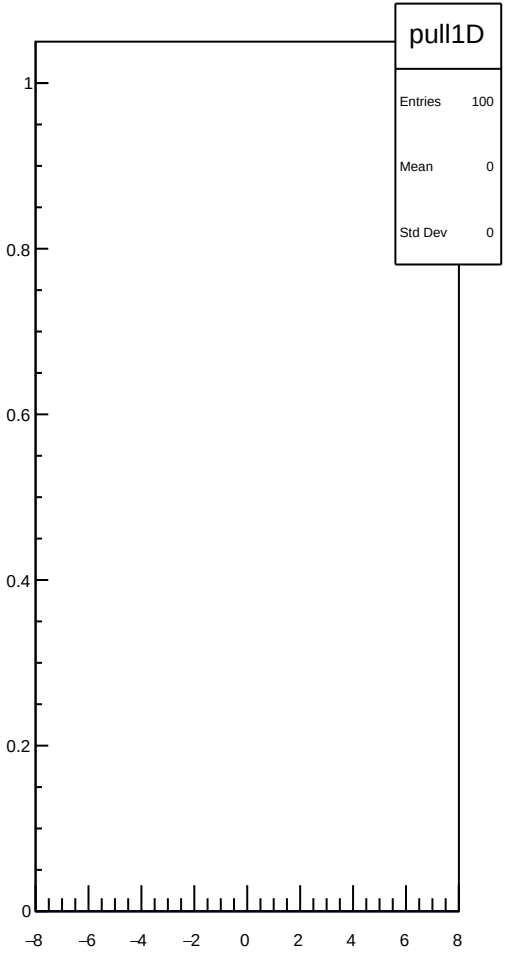

yield_bpm0r03X_rms vs run
χ² / ndf 3.283e+04 / 99
p0 0.08014 ± 5.826e–05
0.7
0.6
0.5
0.4
0.3
0.2
0.1

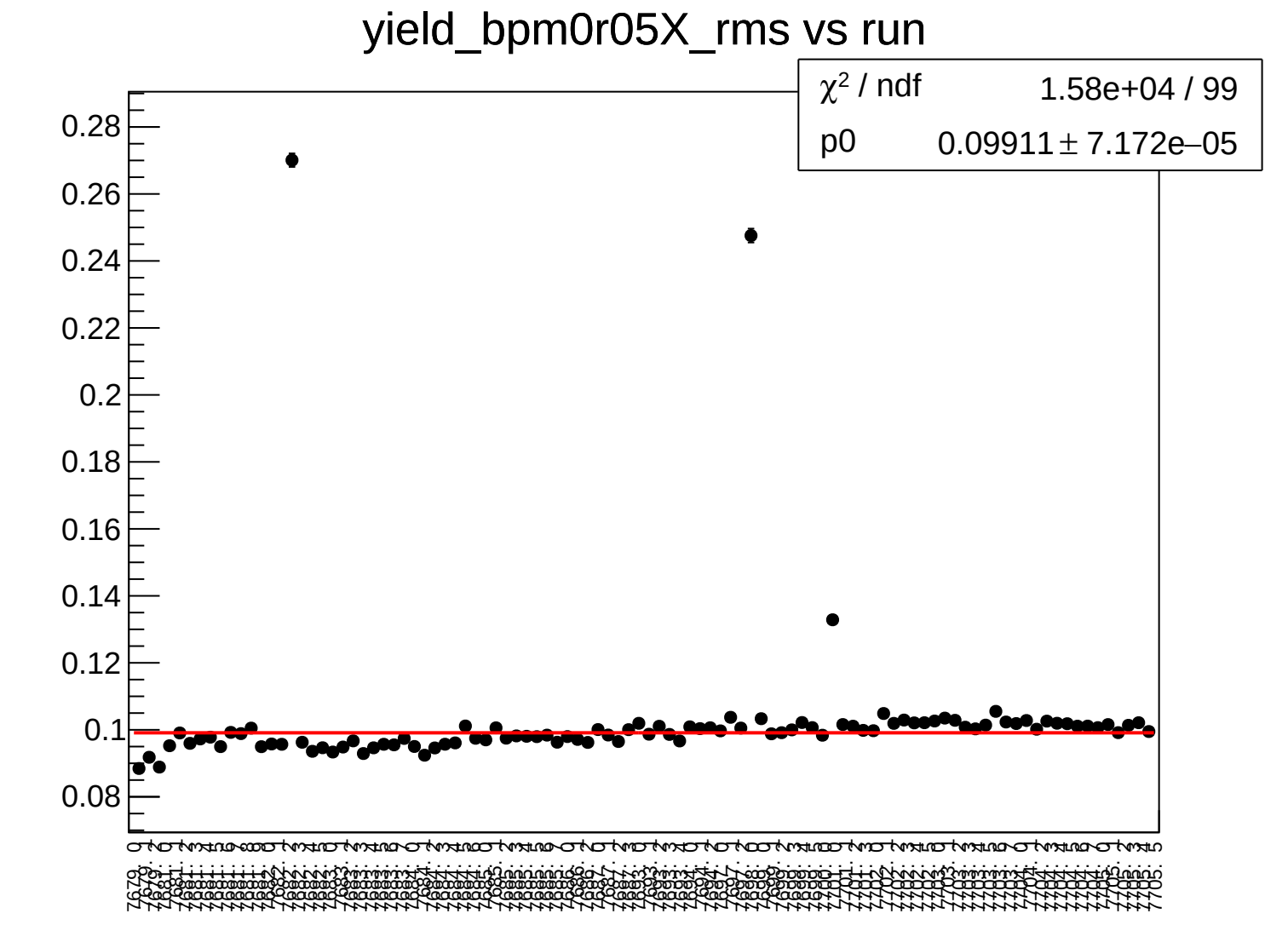

yield_bpm0r03Y_mean vs run
χ² / ndf 1.051e+08 / 99
p0 −0.6133 ± 8.018e−06
−0.45
−0.5
−0.55
−0.6
−0.65
−0.7
pull
Entries 100
Mean 83.76
Std Dev 32.61
2500
2000
1500
1000
500
0
−500
−1000
−1500

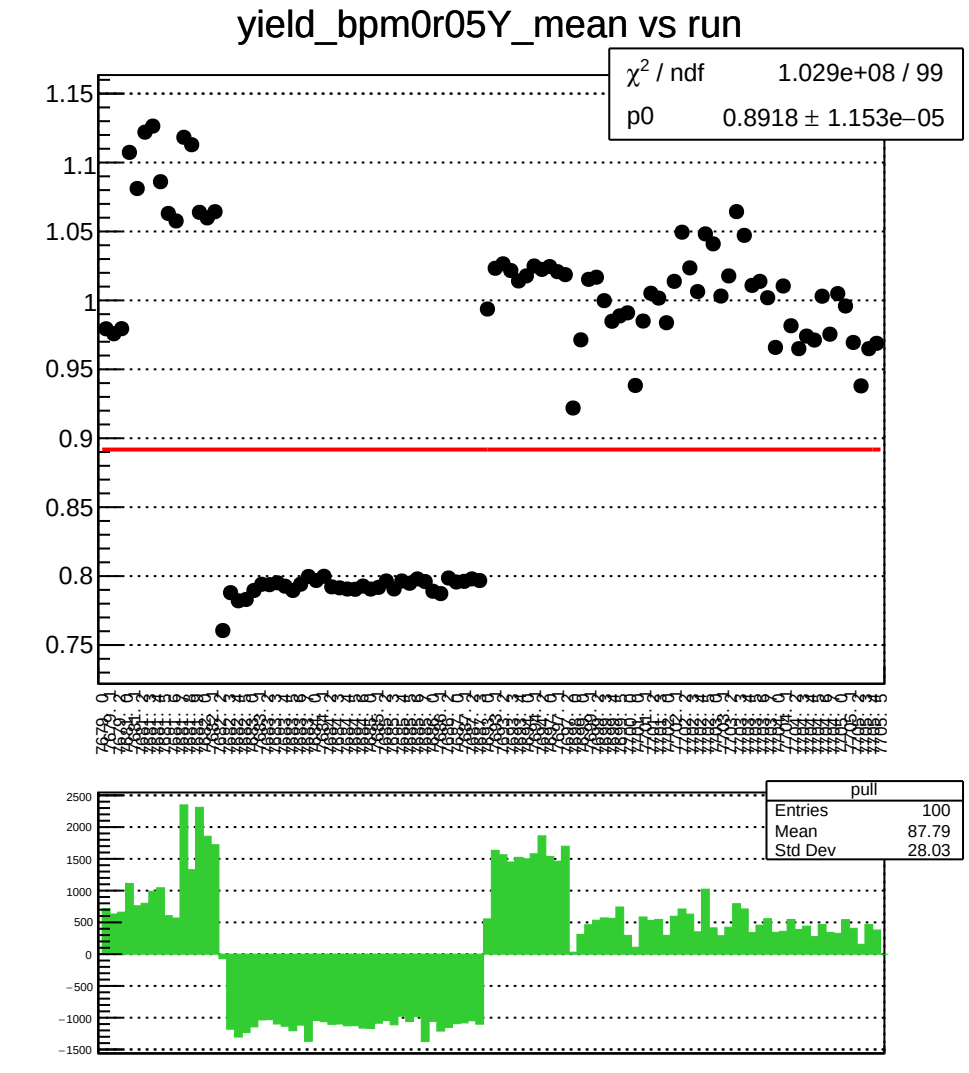

pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

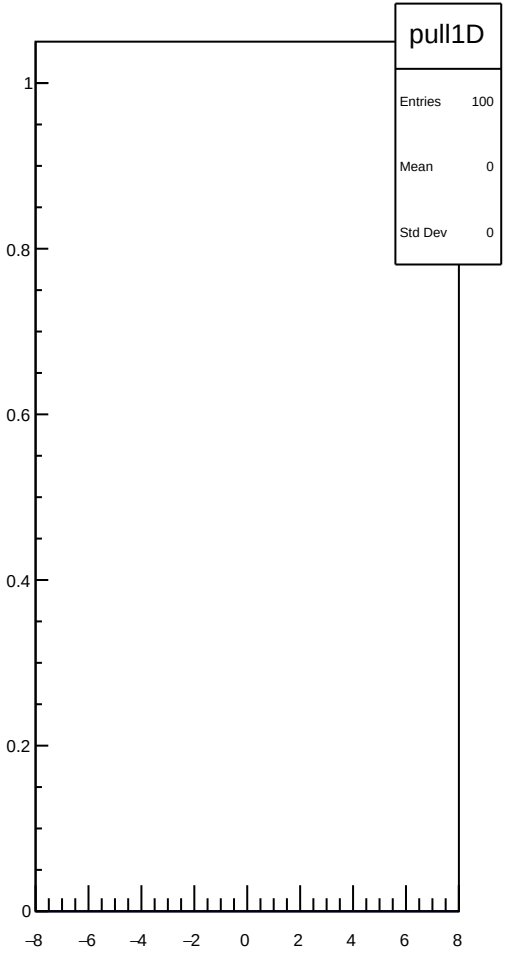

yield_bpm0r03Y_rms vs run
χ² / ndf 3.686e+05 / 99
p0 0.007073 ± 5.669e−06
0.12
0.1
0.08
0.06
0.04
0.02

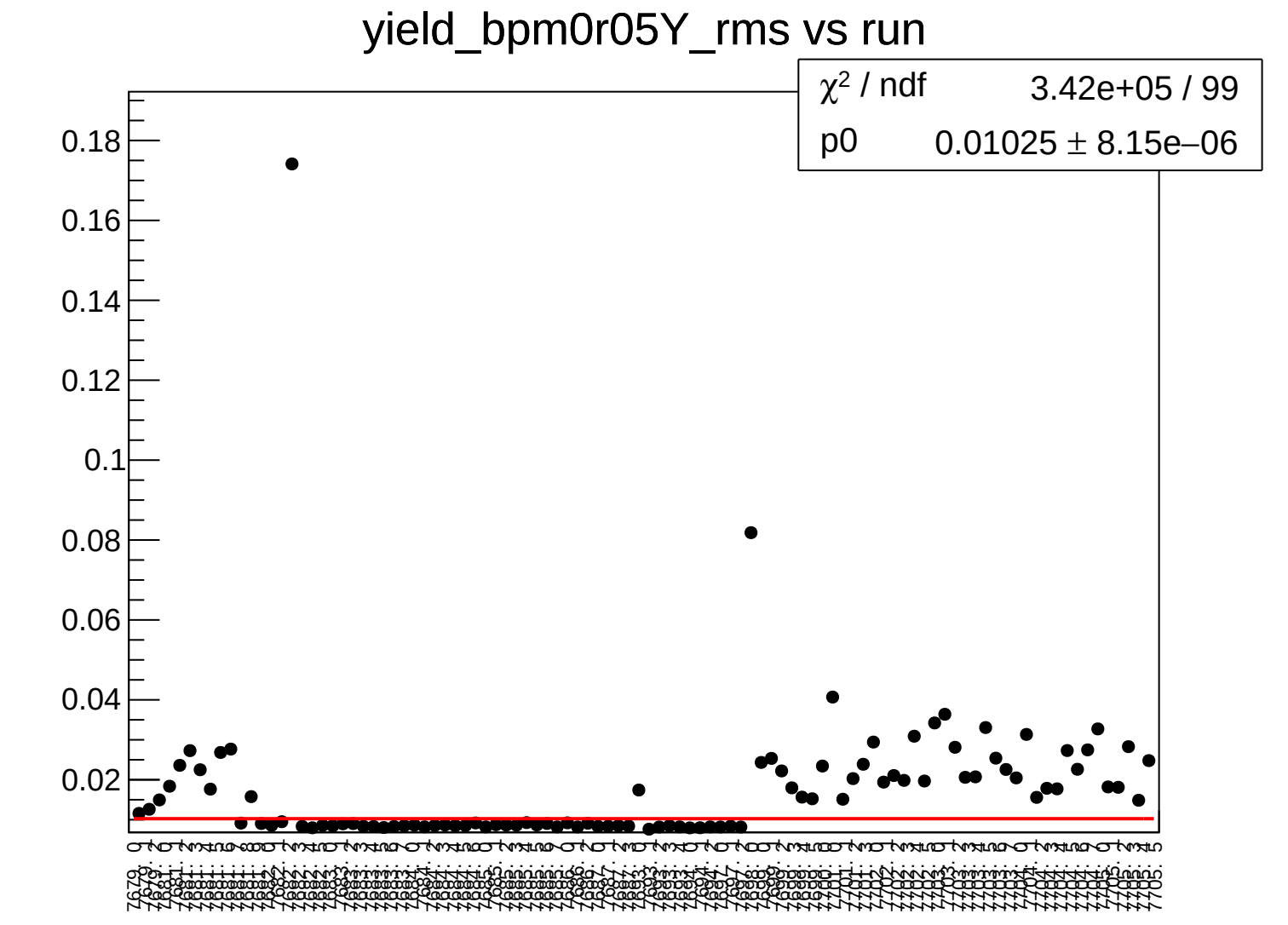

yield_bpm0r05X_mean vs run
χ² / ndf 5.711e+06 / 99
p0 −0.1434 ± 0.0001014
0.2
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 100
Mean 1.708e+04
Std Dev 0
200
0
−200
−400
−600

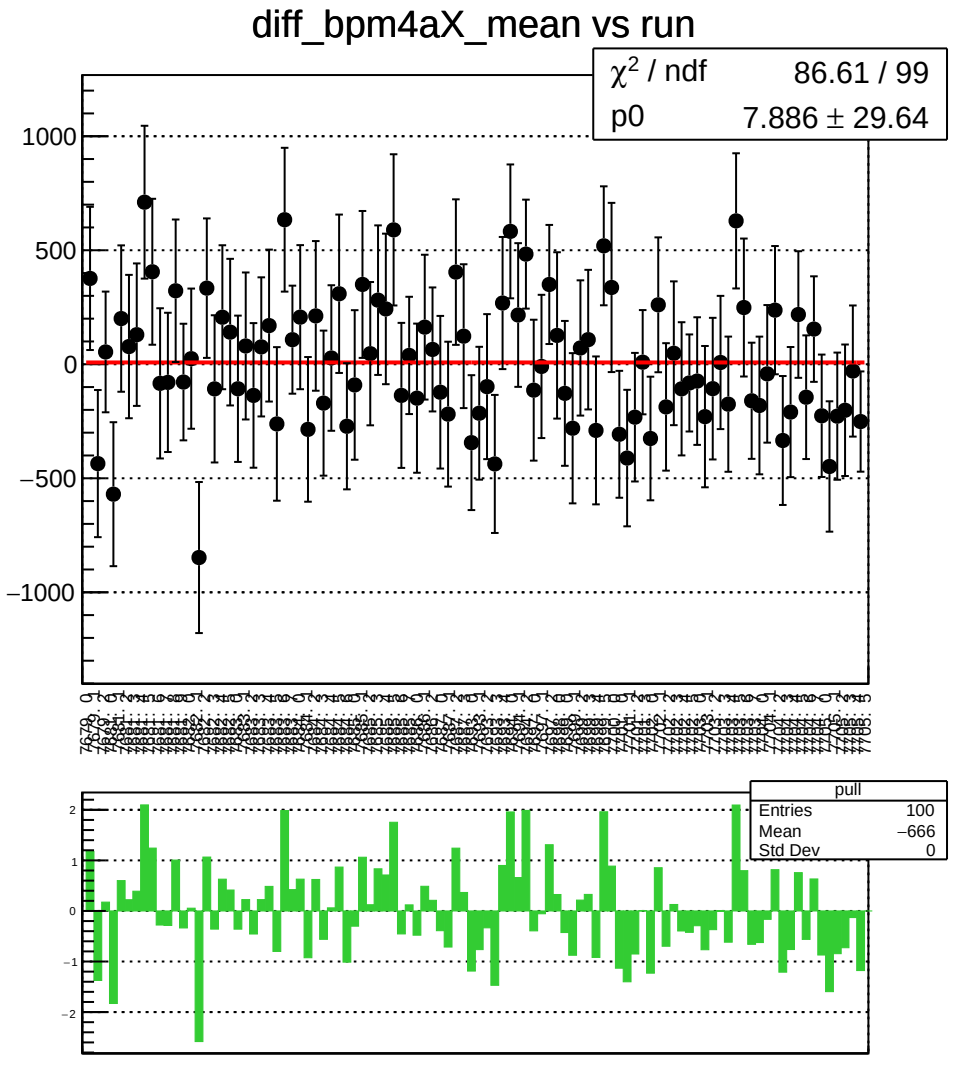

pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

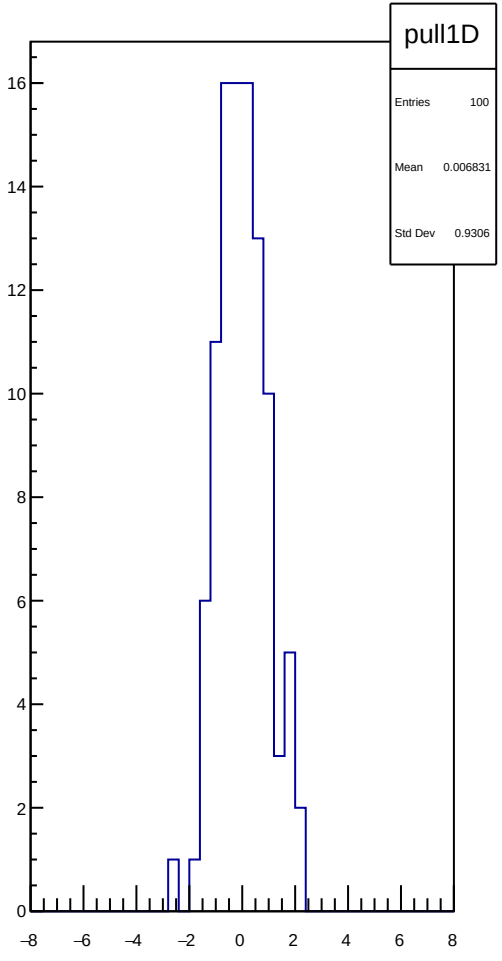

yield_bpm0r05X_rms vs run
χ² / ndf 1.58e+04 / 99
p0 0.09911 ± 7.172e–05
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08

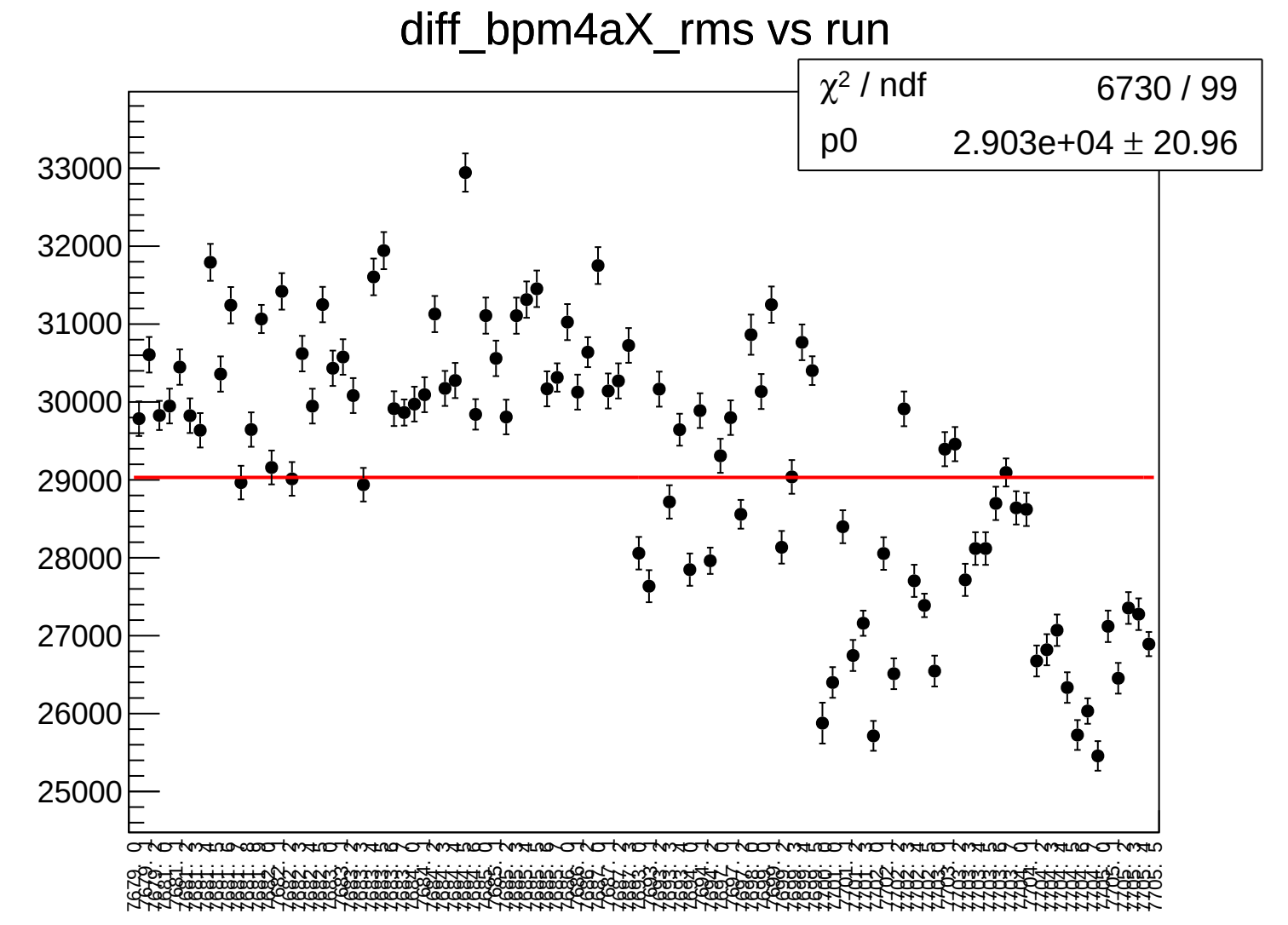

yield_bpm0r05Y_mean vs run
χ² / ndf 1.029e+08 / 99
p0 0.8918 ± 1.153e−05
1.15
1.1
1.05
1
0.95
0.9
0.85
0.8
0.75
pull
Entries 100
Mean 87.79
Std Dev 28.03
2500
2000
1500
1000
500
0
−500
−1000
−1500

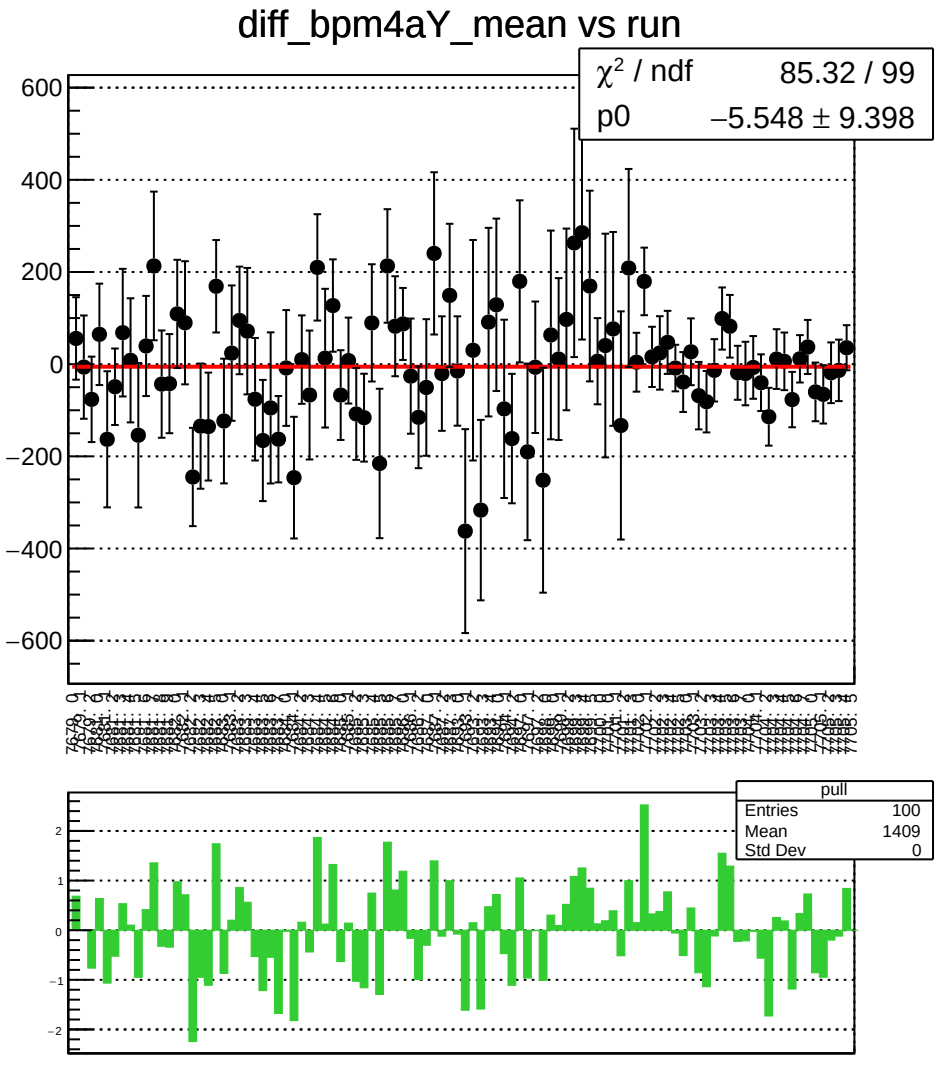

pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

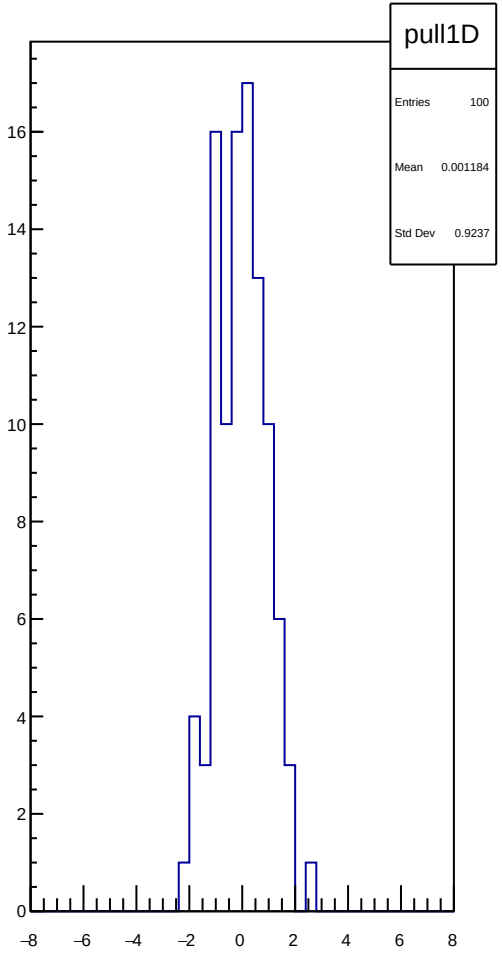

yield_bpm0r05Y_rms vs run
χ² / ndf 3.42e+05 / 99
p0 0.01025 ± 8.15e−06
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

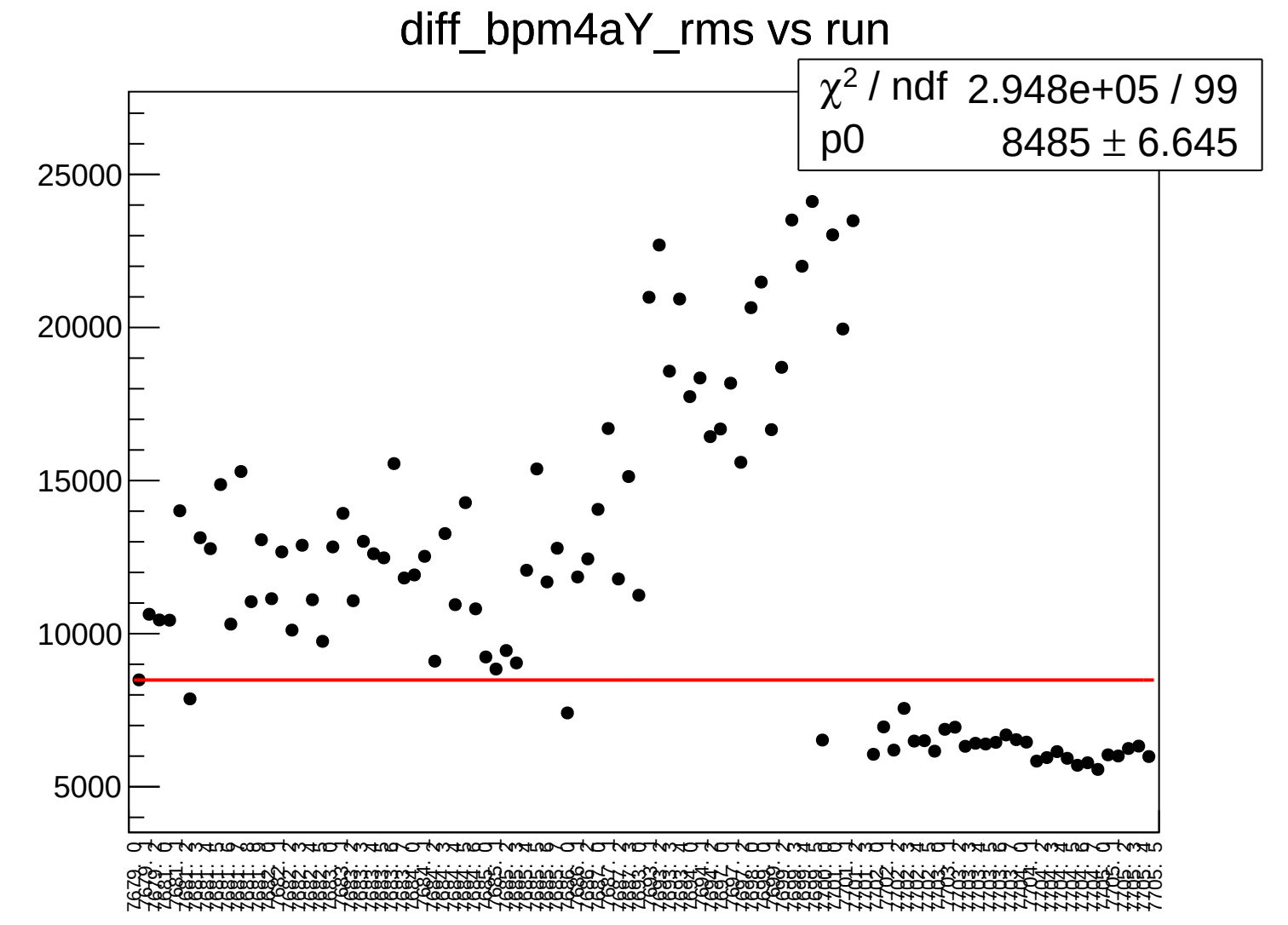

diff_bpm4aX_mean vs run
χ² / ndf 86.61 / 99
p0 7.886 ± 29.64
1000
500
0
−500
−1000
pull
Entries 100
Mean −666
Std Dev 0
2
1
0
−1
−2

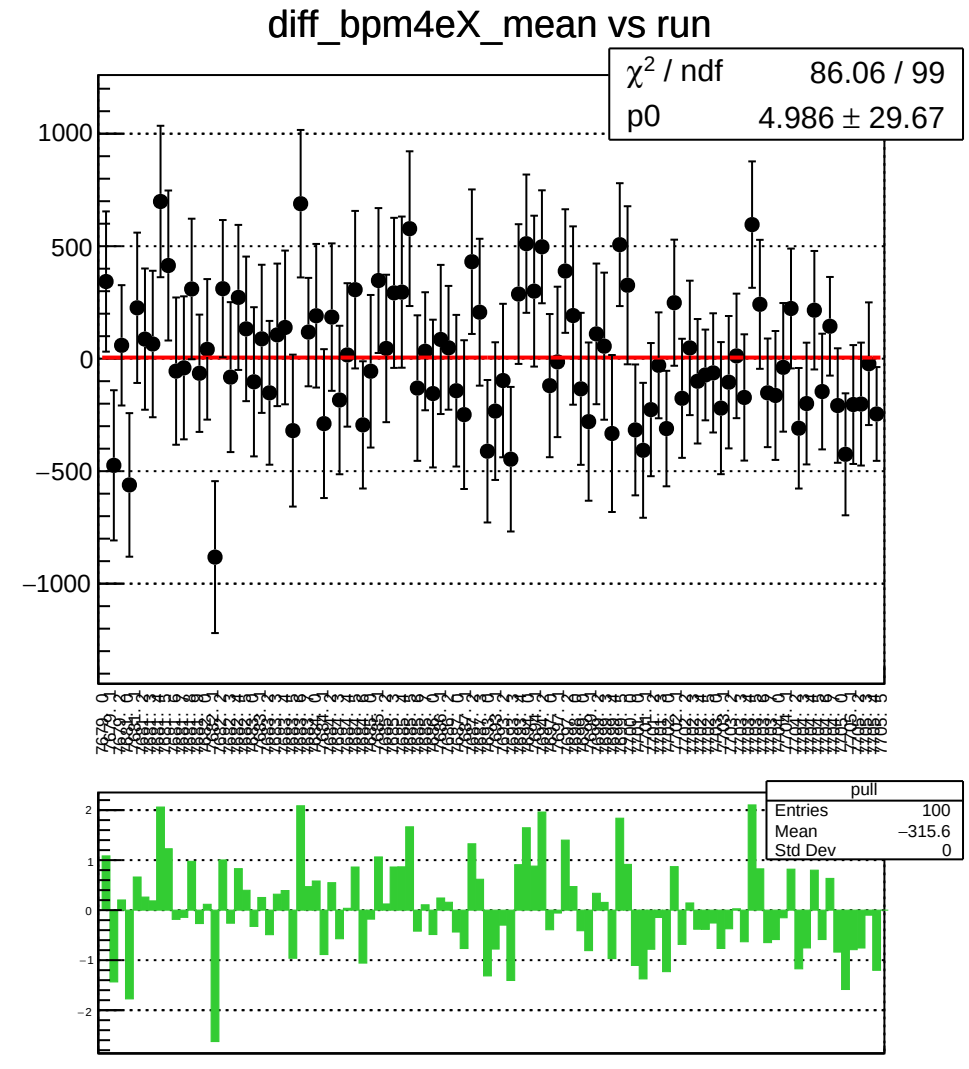

pull1D
Entries 100
Mean 0.006831
Std Dev 0.9306
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

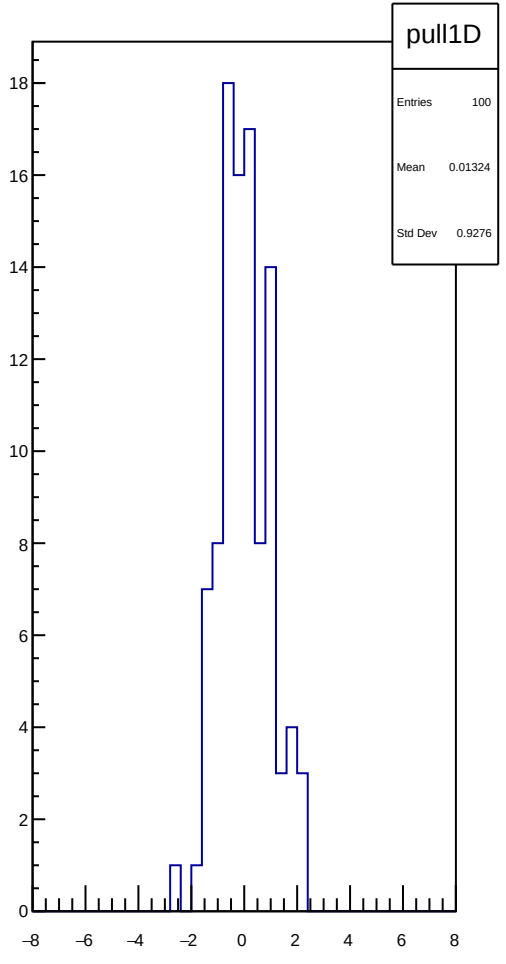

diff_bpm4aX_rms vs run
χ² / ndf 6730 / 99
p0 2.903e+04 ± 20.96
33000
32000
31000
30000
29000
28000
27000
26000
25000

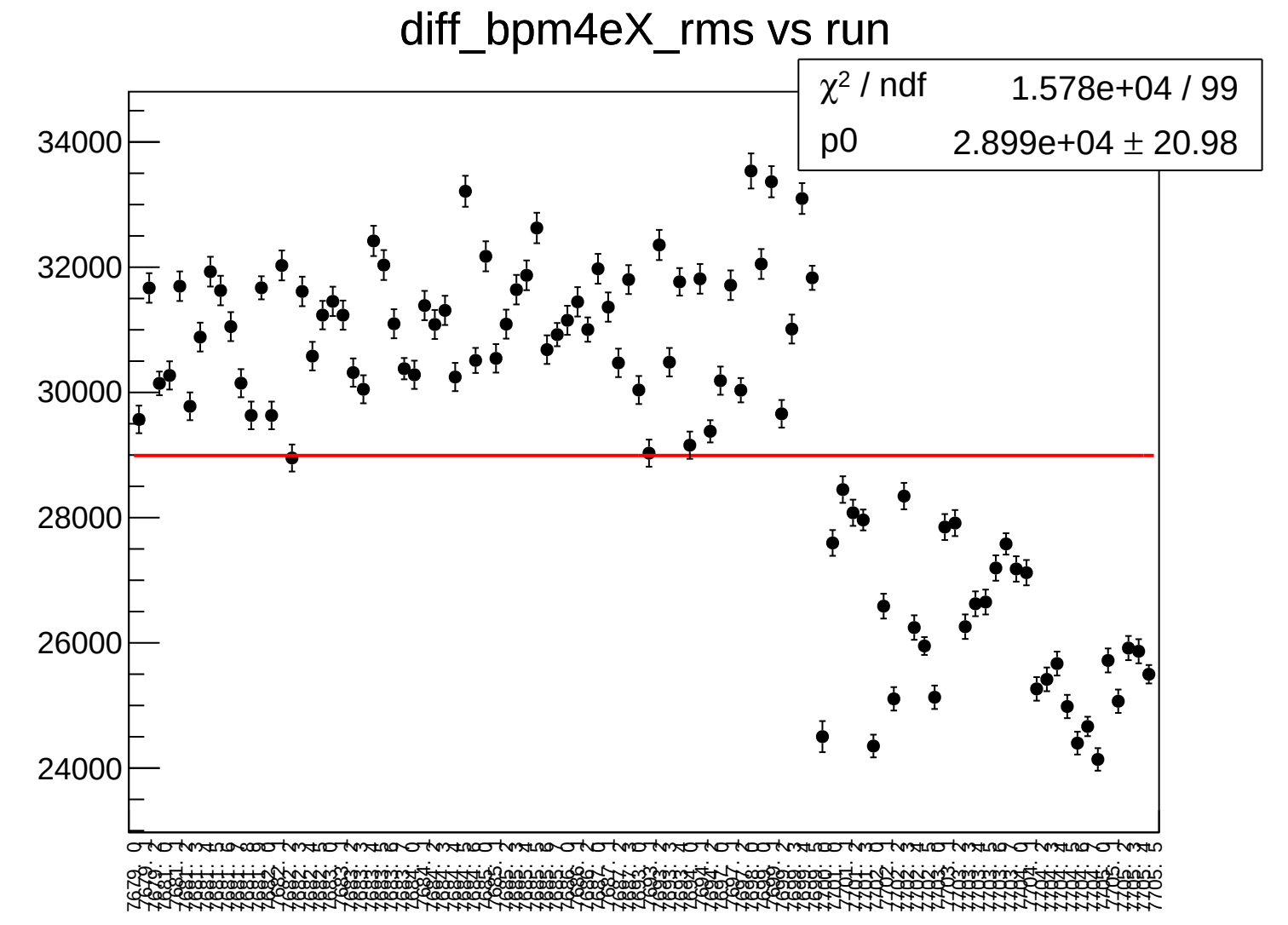

diff_bpm4aY_mean vs run
χ² / ndf 85.32 / 99
p0 −5.548 ± 9.398
600
400
200
0
−200
−400
−600
pull
Entries 100
Mean 1409
Std Dev 0
2
1
0
−1
−2

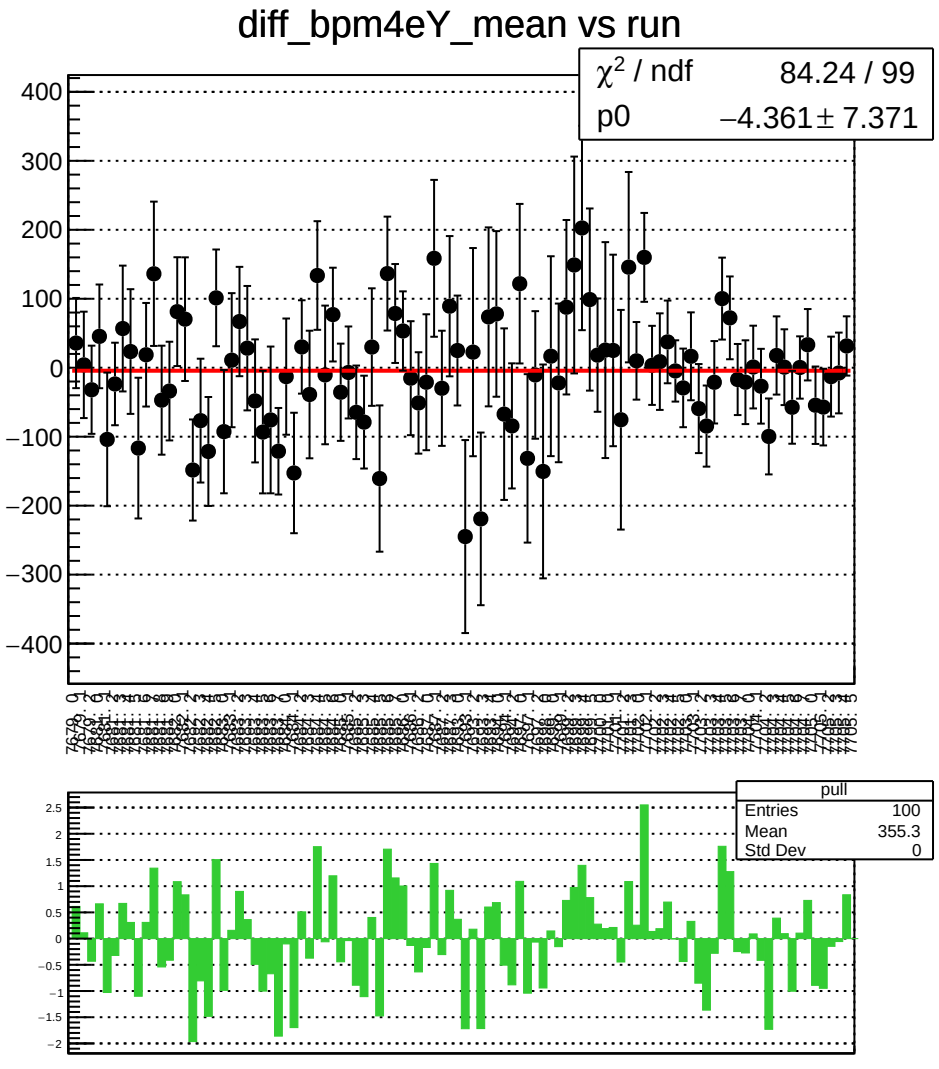

pull1D
Entries 100
Mean 0.001184
Std Dev 0.9237
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

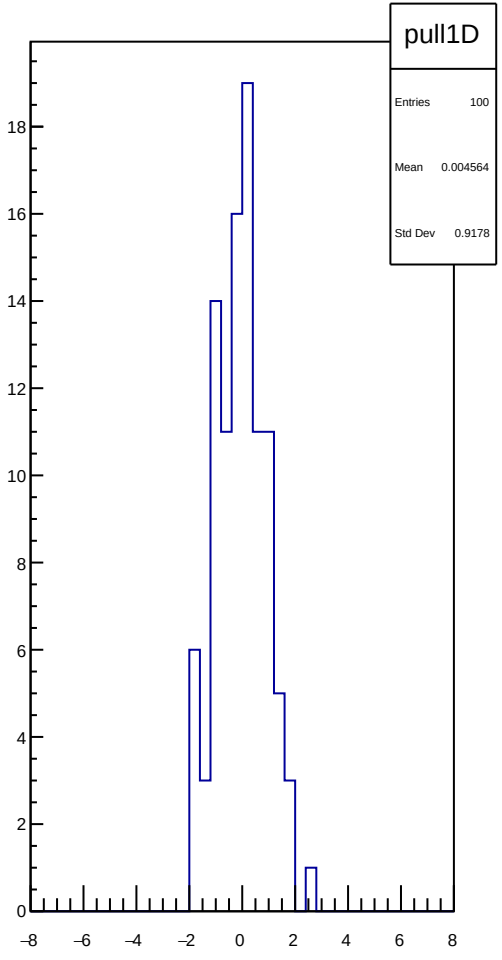

diff_bpm4aY_rms vs run
χ² / ndf 2.948e+05 / 99
p0 8485 ± 6.645
25000
20000
15000
10000
5000

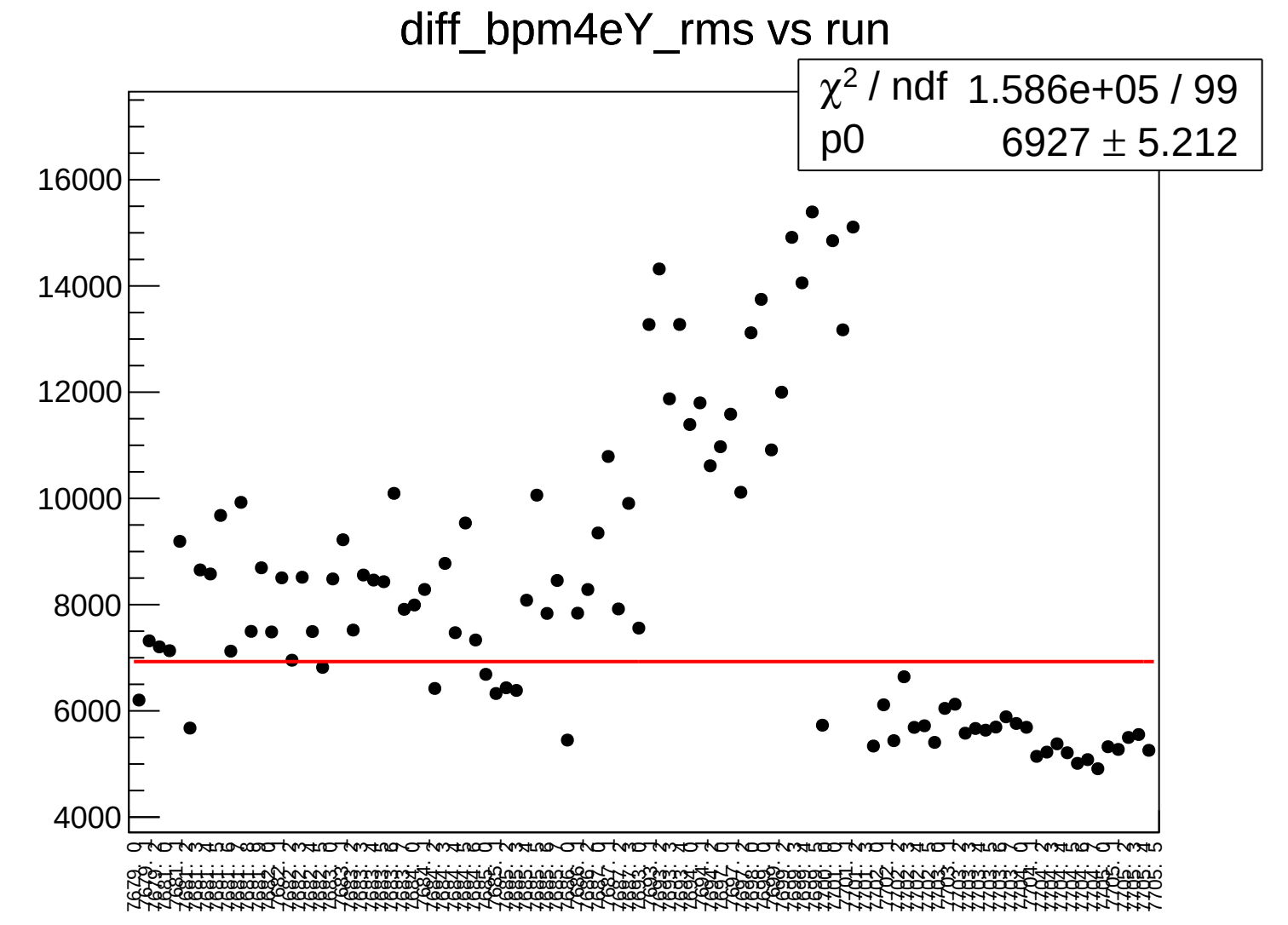

diff_bpm4eX_mean vs run
χ² / ndf 86.06 / 99
p0 4.986 ± 29.67
1000
500
0
−500
−1000
pull
Entries 100
Mean −315.6
Std Dev 0
2
1
0
−1
−2

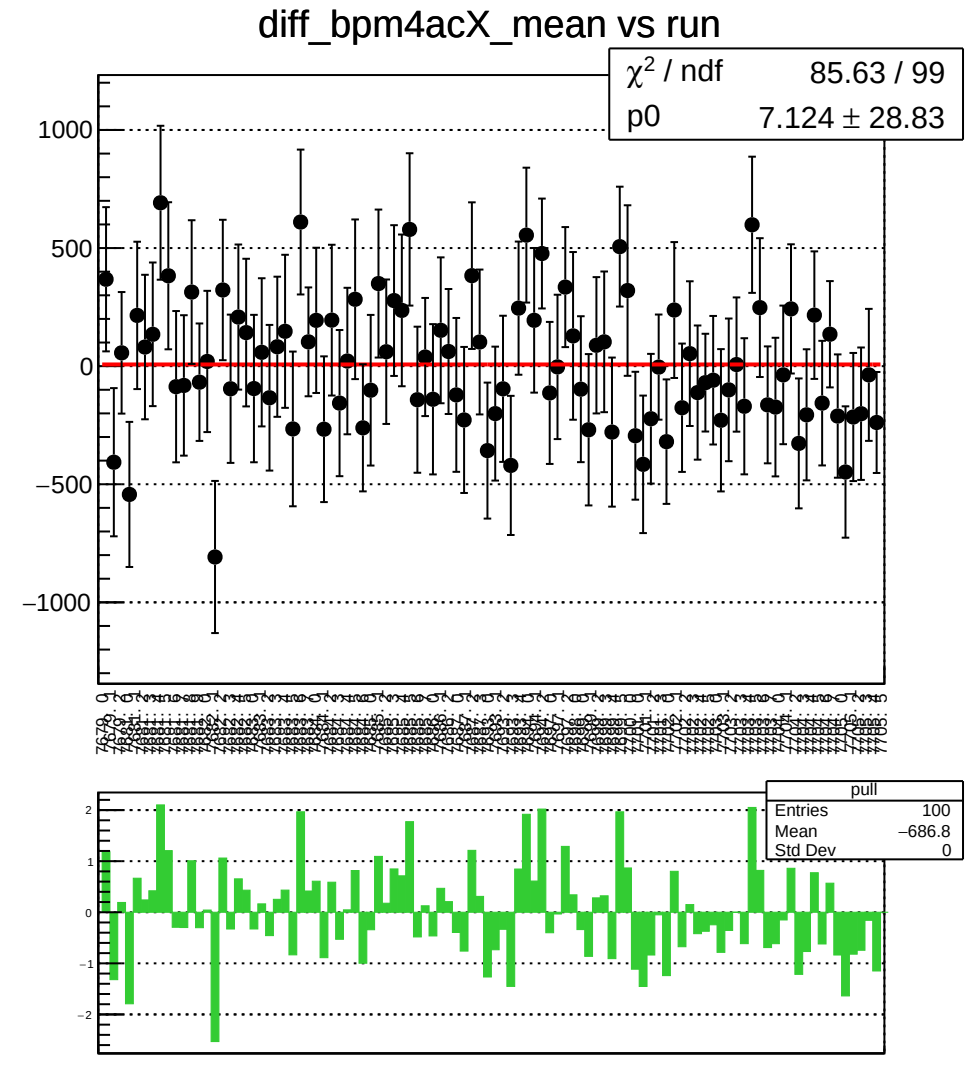

pull1D
Entries 100
Mean 0.01324
Std Dev 0.9276
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

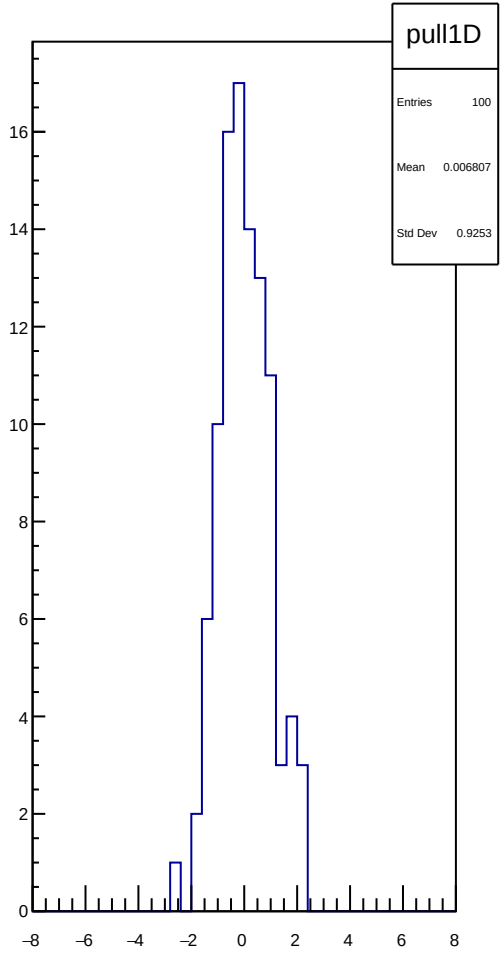

diff_bpm4eX_rms vs run
χ² / ndf 1.578e+04 / 99
p0 2.899e+04 ± 20.98
34000
32000
30000
28000
26000
24000

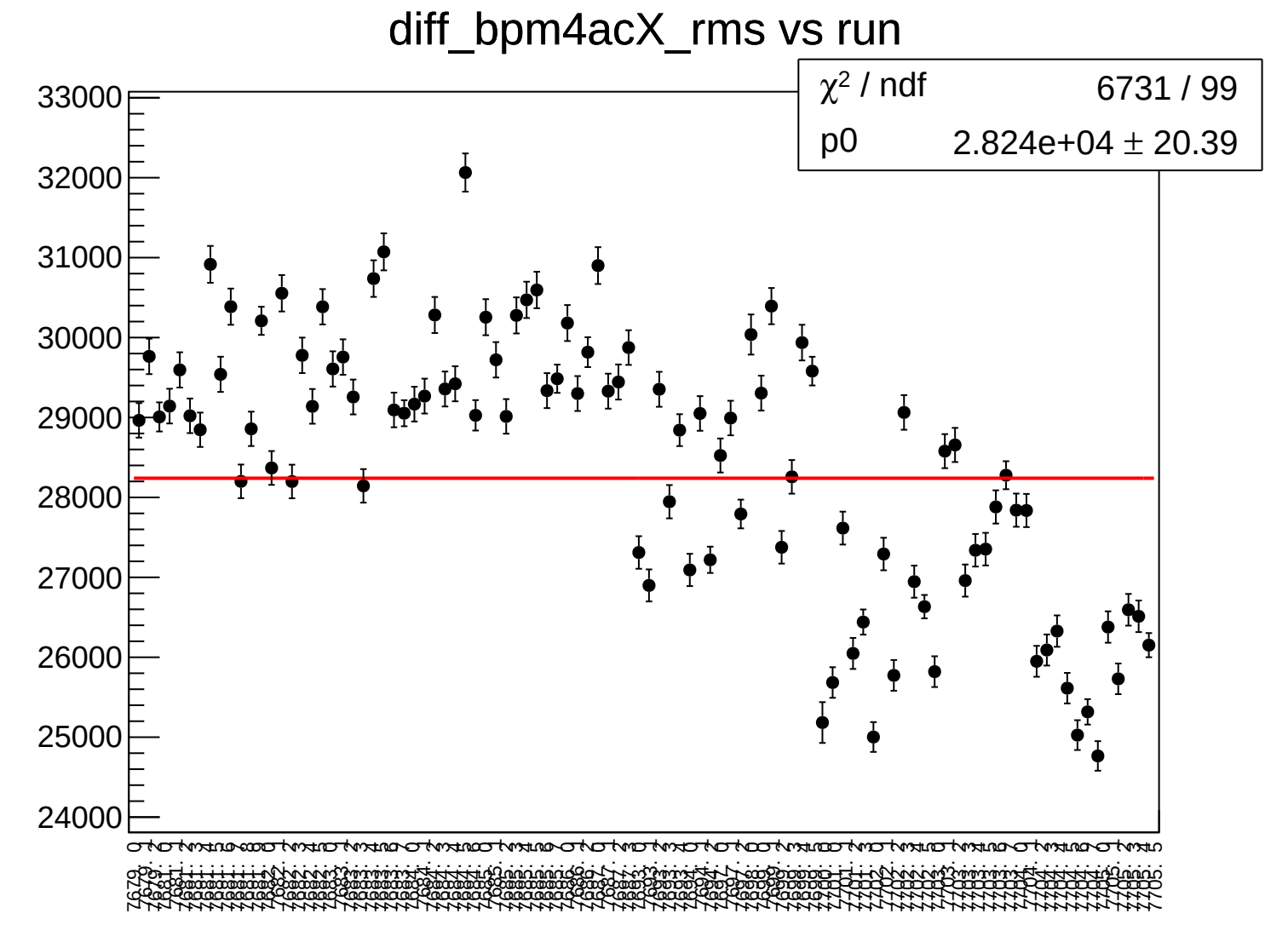

diff_bpm4eY_mean vs run
χ² / ndf 84.24 / 99
p0 −4.361 ± 7.371
pull
Entries 100
Mean 355.3
Std Dev 0

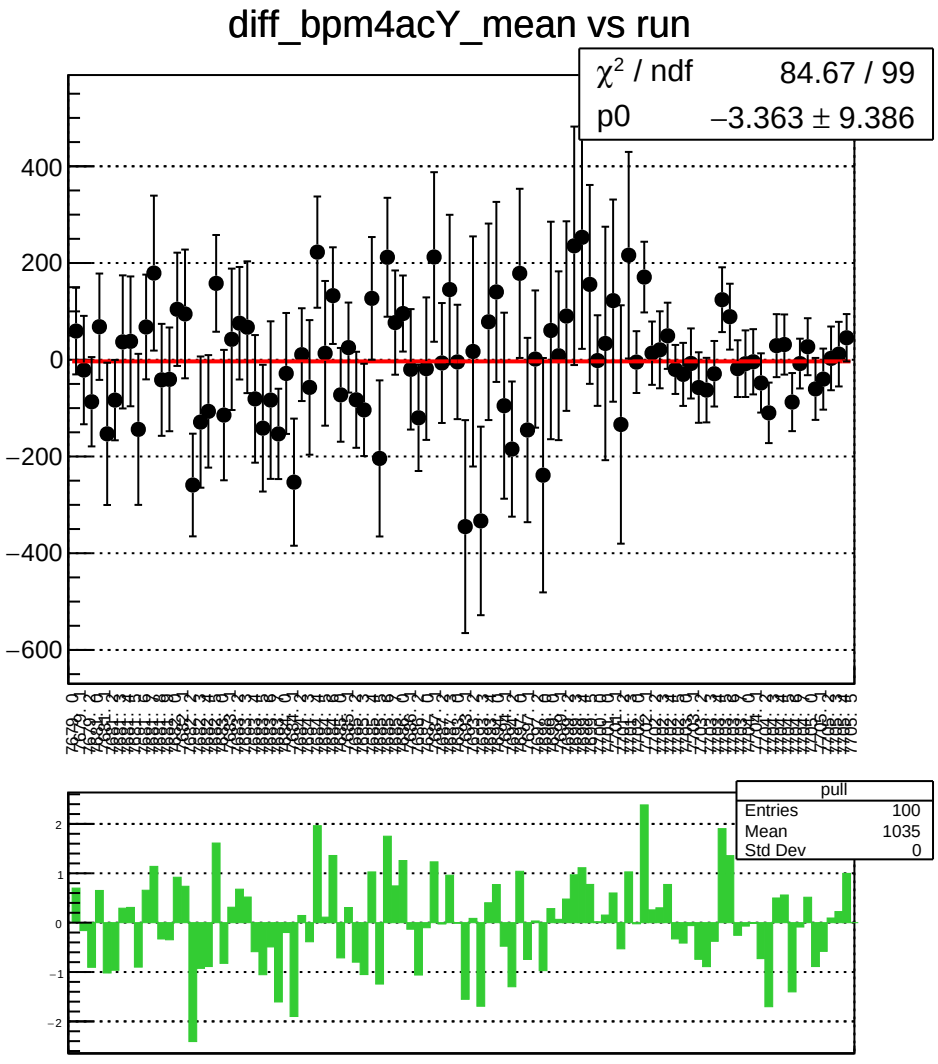

pull1D
Entries 100
Mean 0.004564
Std Dev 0.9178

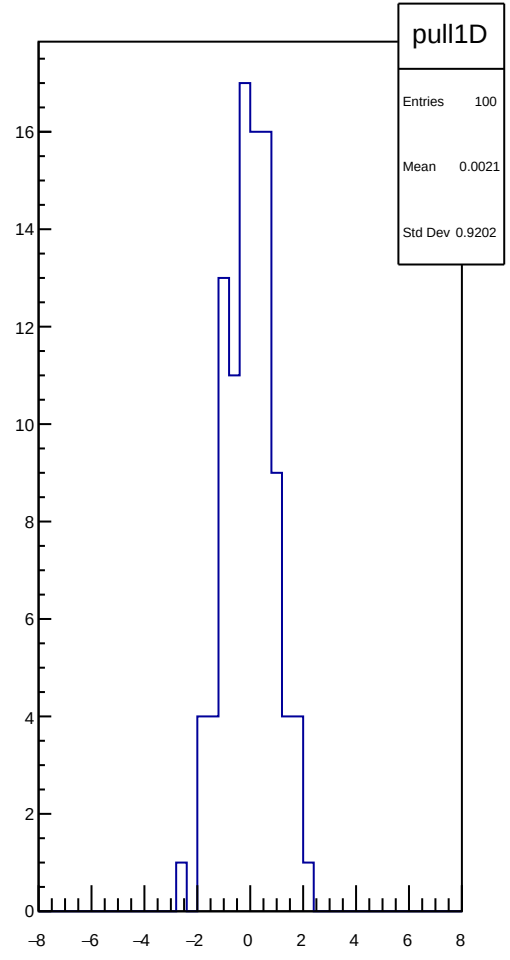

diff_bpm4eY_rms vs run
χ² / ndf 1.586e+05 / 99
p0 6927 ± 5.212
16000
14000
12000
10000
8000
6000
4000

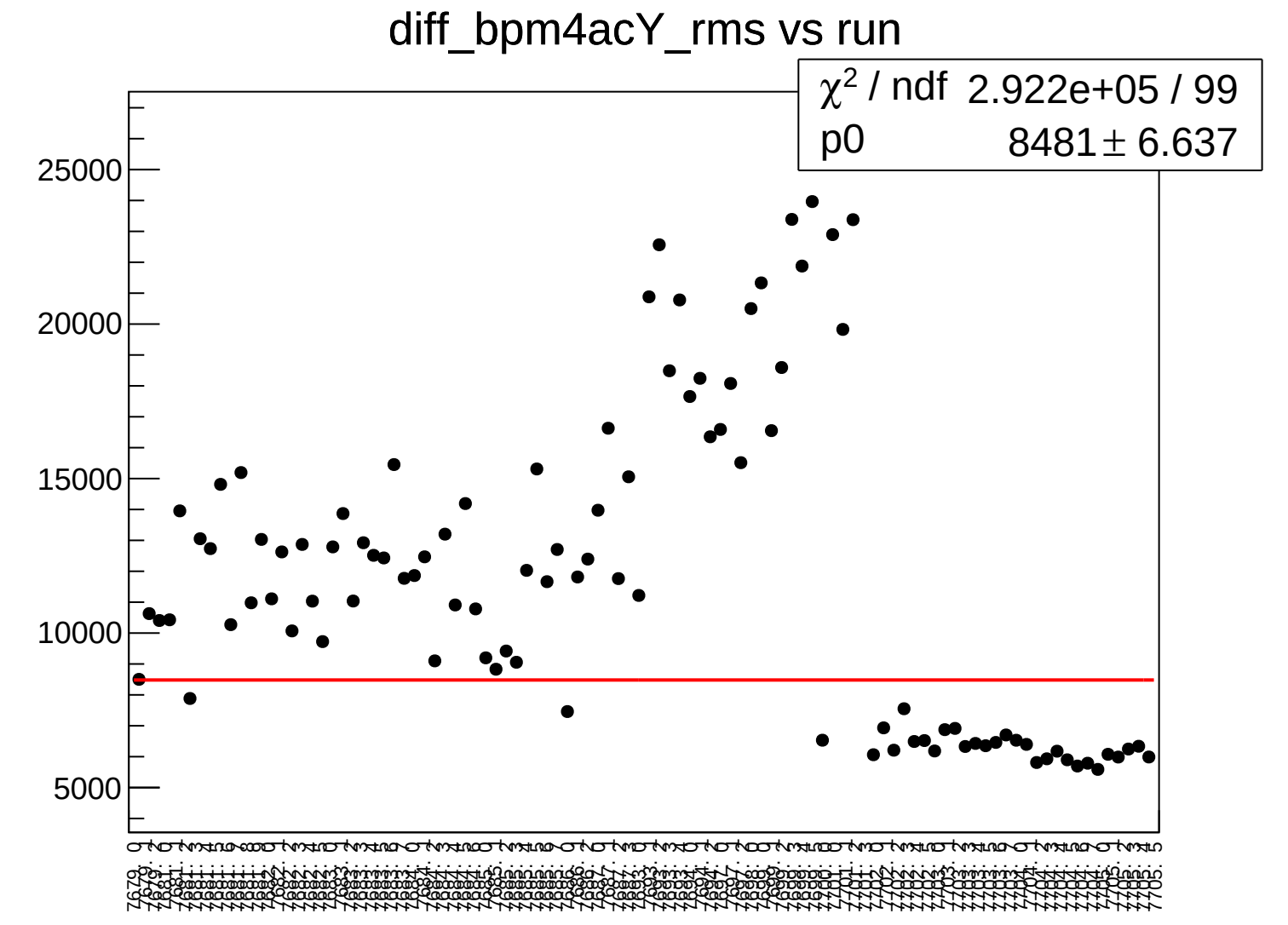

diff_bpm4acX_mean vs run
χ² / ndf 85.63 / 99
p0 7.124 ± 28.83
1000
500
0
−500
−1000
pull
Entries 100
Mean −686.8
Std Dev 0
2
1
0
−1
−2

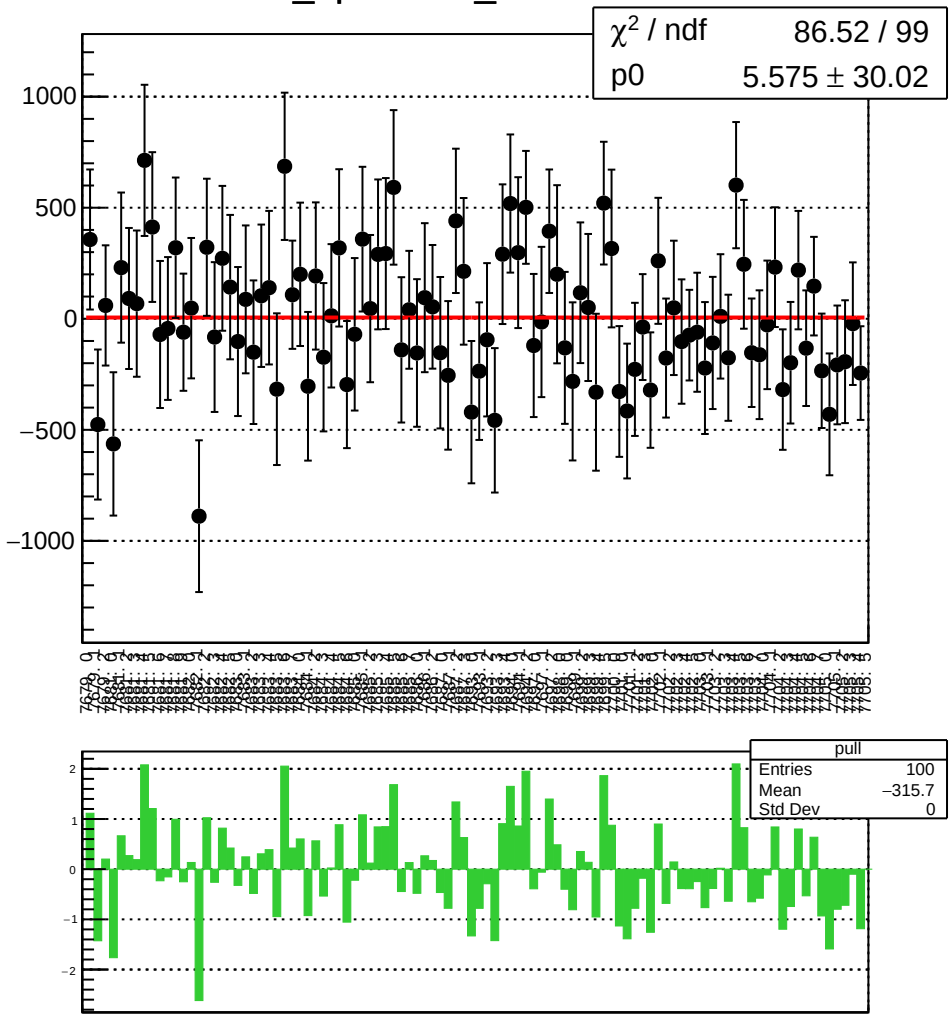

pull1D
Entries 100
Mean 0.006807
Std Dev 0.9253
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

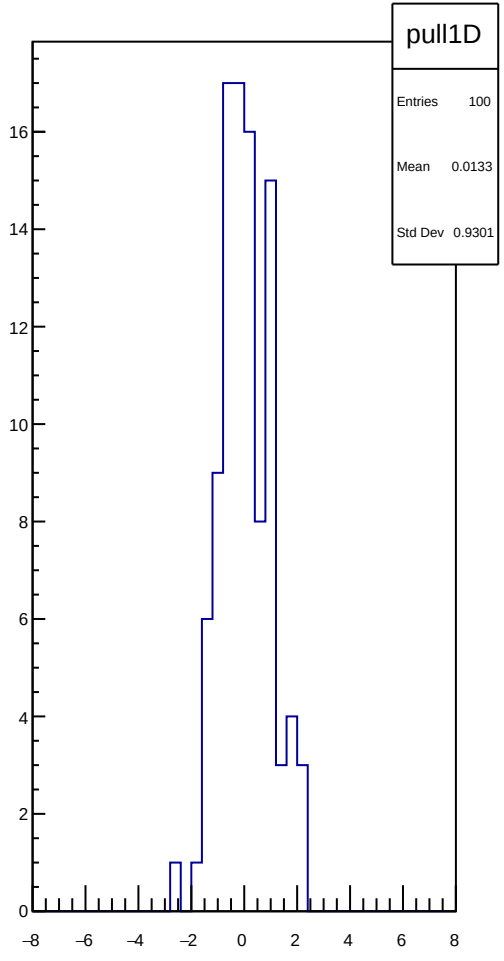

diff_bpm4acX_rms vs run
χ² / ndf 6731 / 99
p0 2.824e+04 ± 20.39
33000
32000
31000
30000
29000
28000
27000
26000
25000
24000

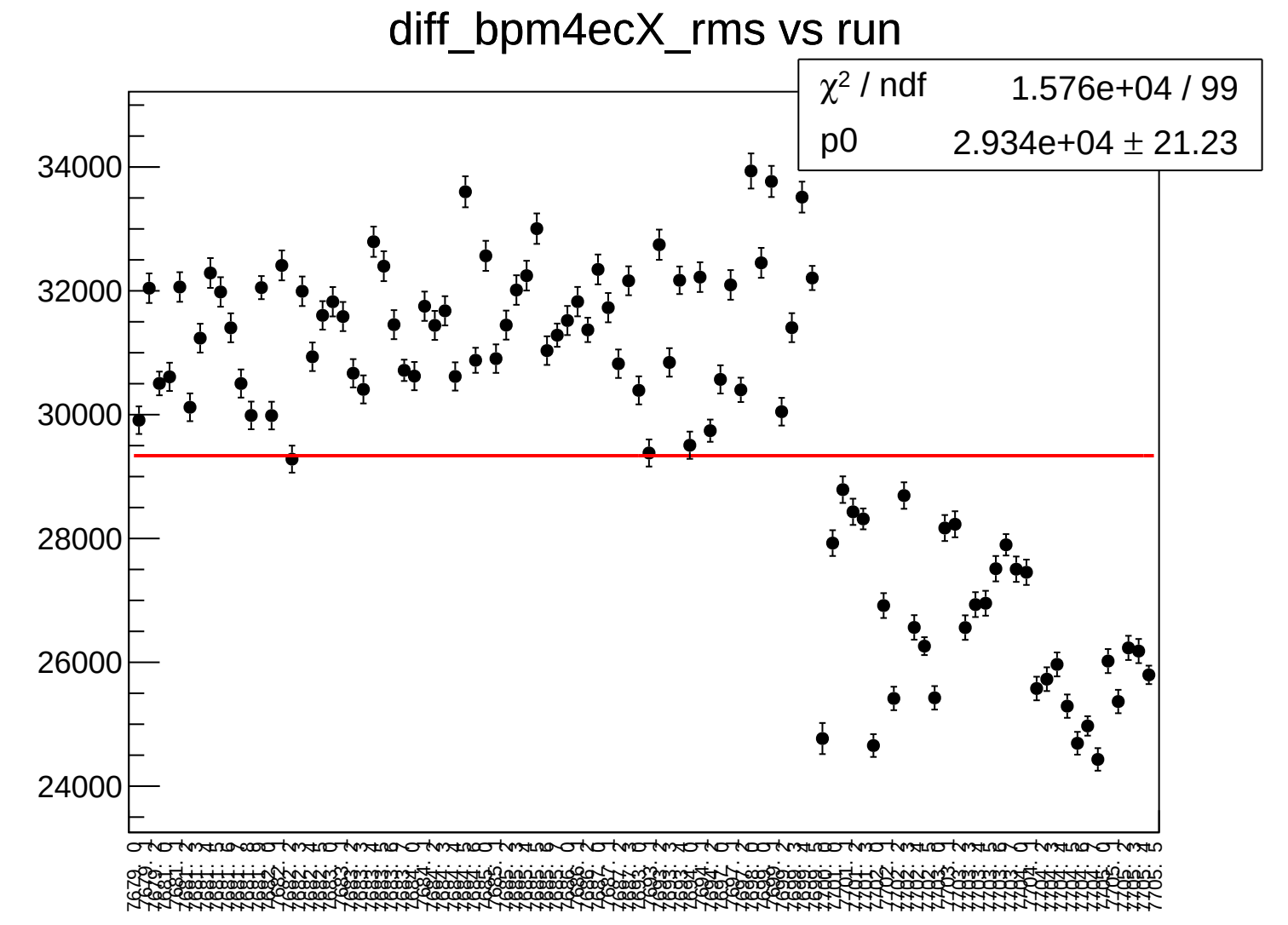

diff_bpm4acY_mean vs run
χ² / ndf 84.67 / 99
p0 −3.363 ± 9.386
400
200
0
−200
−400
−600
pull
Entries 100
Mean 1035
Std Dev 0
2
1
0
−1
−2

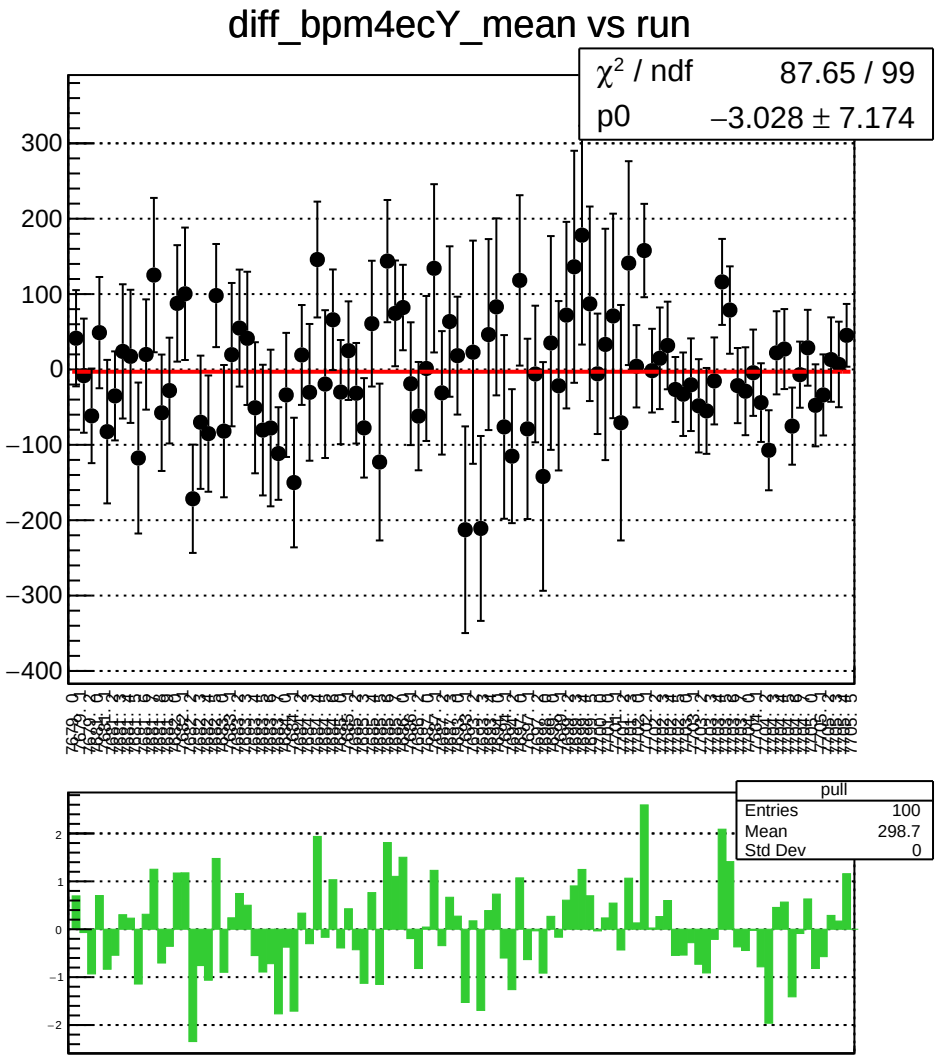

pull1D
Entries 100
Mean 0.0021
Std Dev 0.9202
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

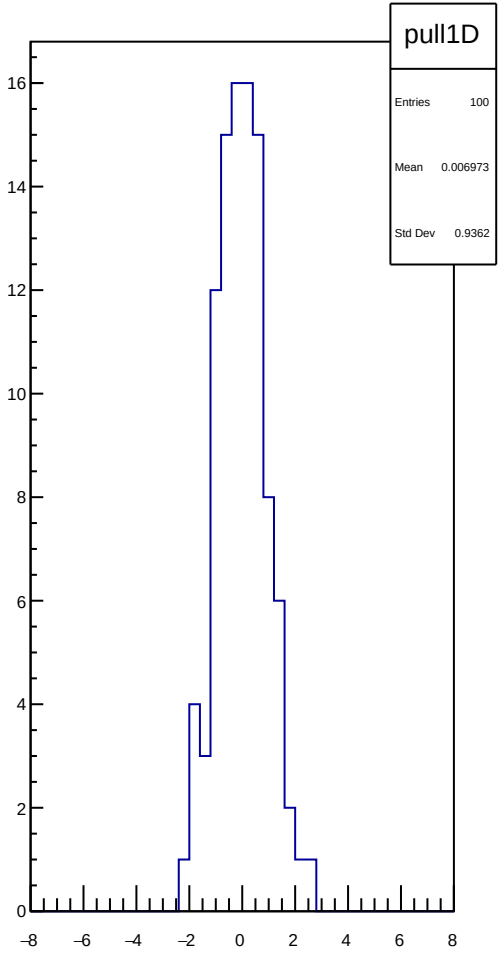

diff_bpm4acY_rms vs run
χ² / ndf 2.922e+05 / 99
p0 8481 ± 6.637
25000
20000
15000
10000
5000

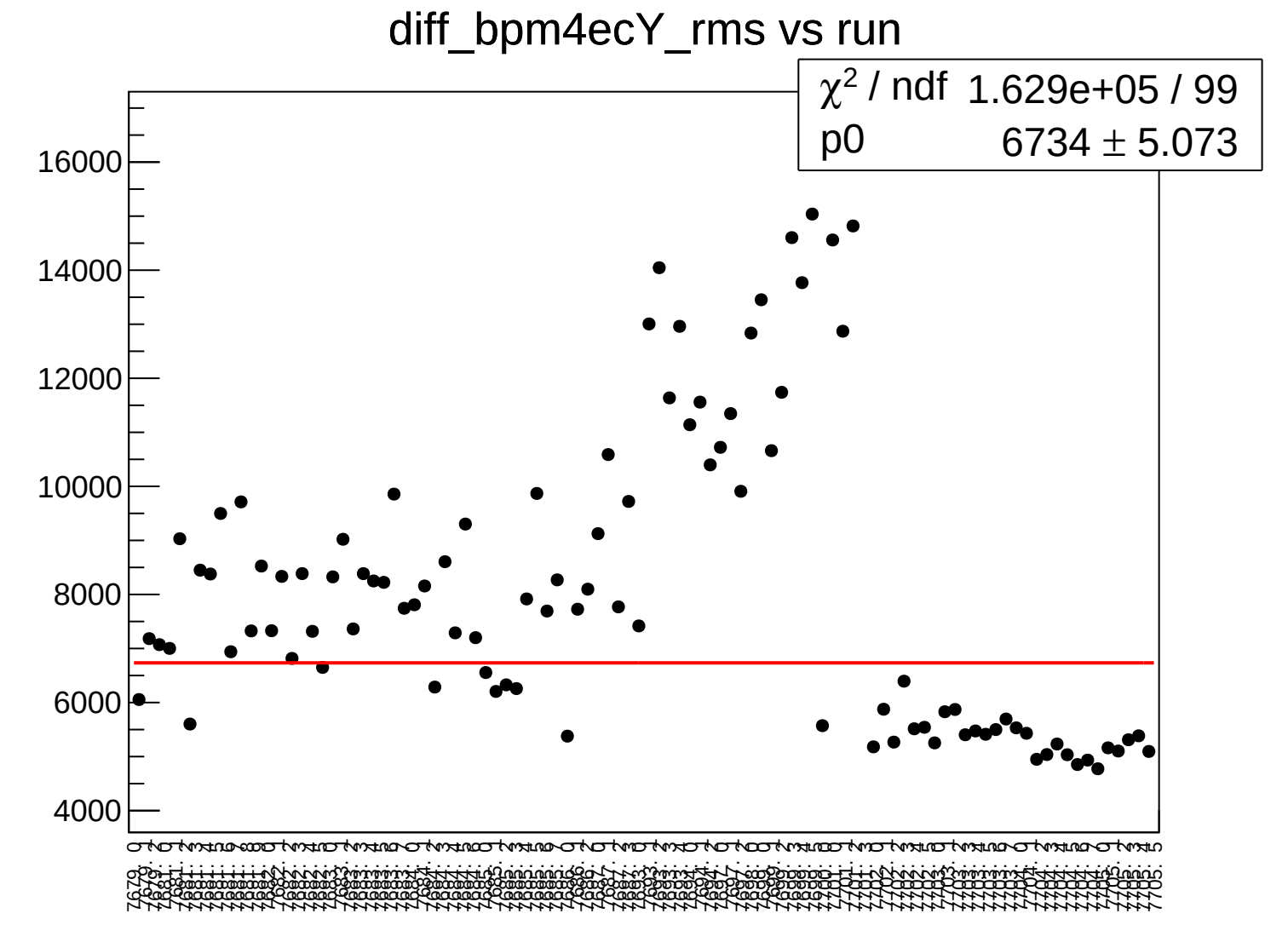

diff_bpm4ecX_mean vs run
χ² / ndf 86.52 / 99
p0 5.575 ± 30.02
1000
500
0
−500
−1000
pull
Entries 100
Mean −315.7
Std Dev 0
2
1
0
−1
−2

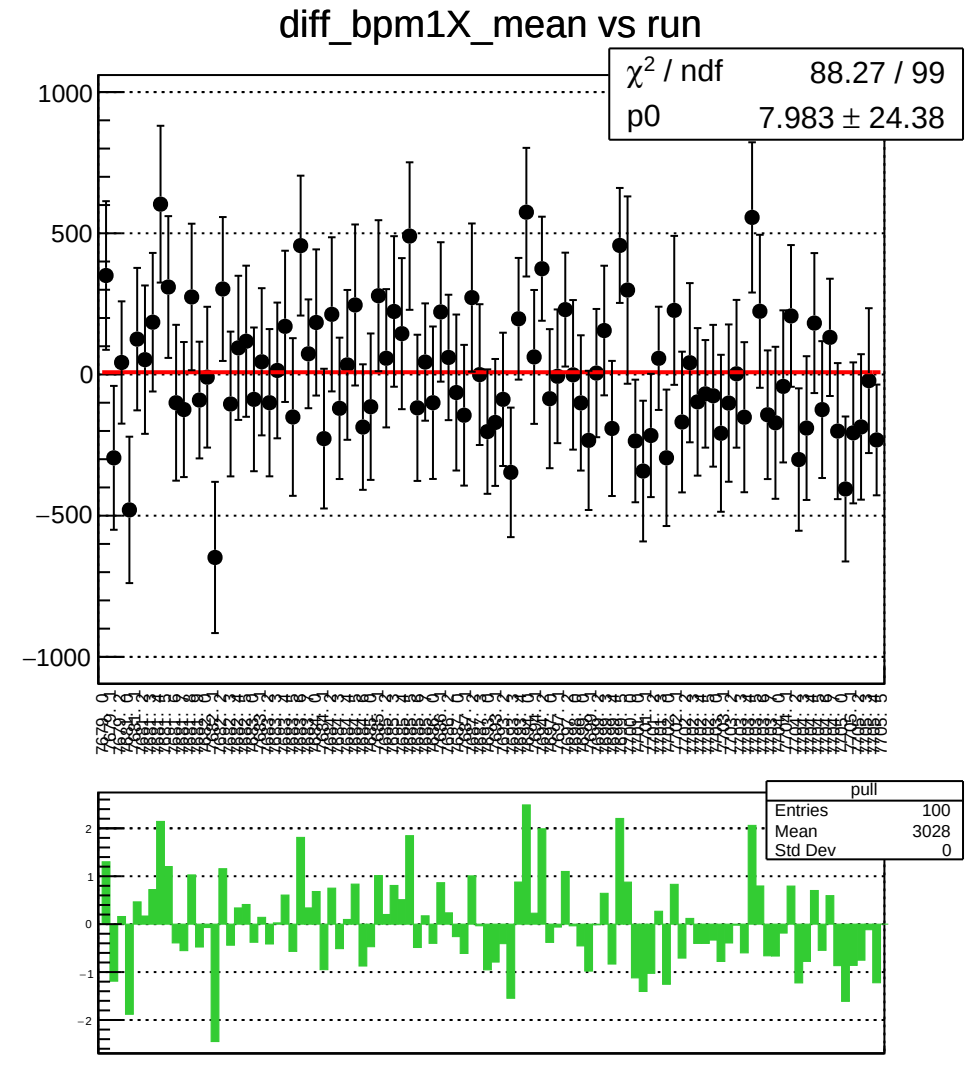

pull1D
Entries 100
Mean 0.0133
Std Dev 0.9301
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

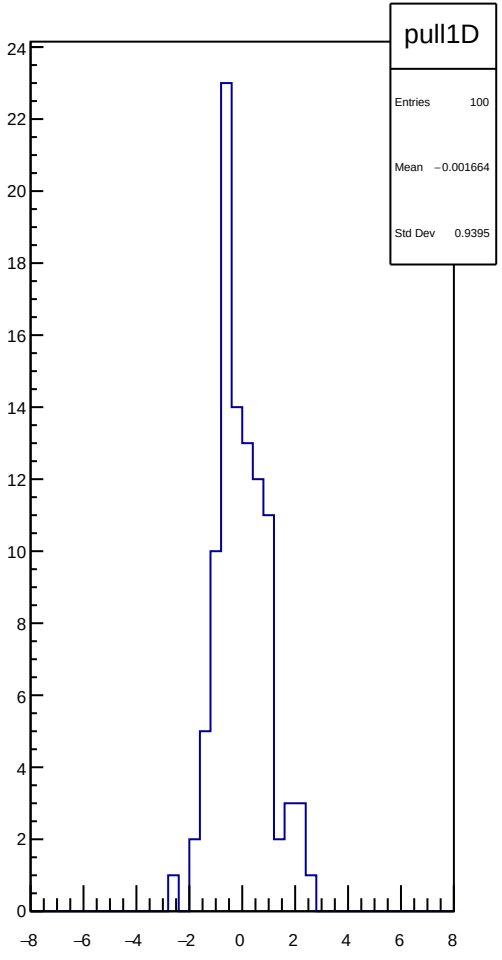

diff_bpm4ecX_rms vs run
χ² / ndf 1.576e+04 / 99
p0 2.934e+04 ± 21.23
34000
32000
30000
28000
26000
24000

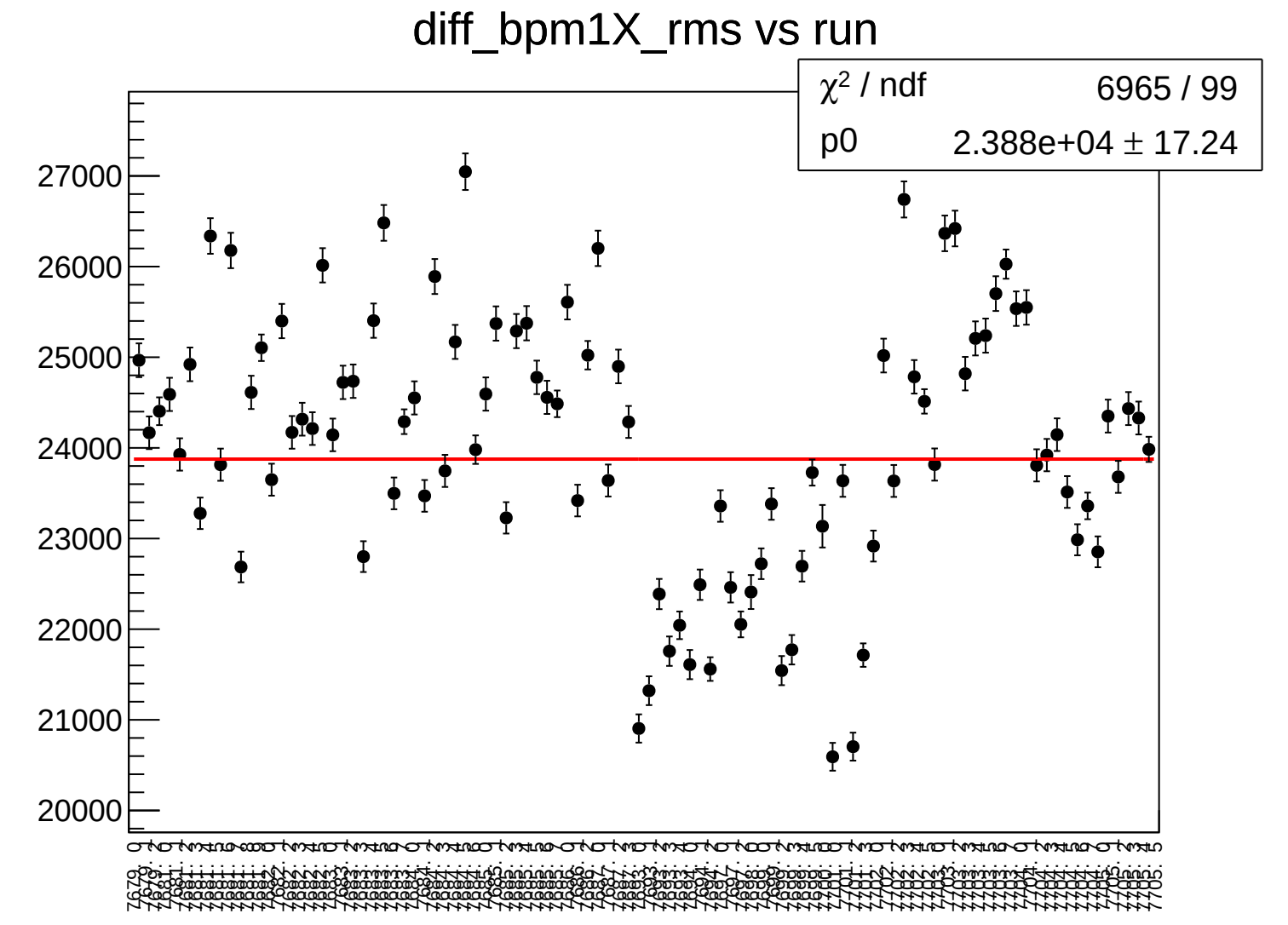

diff_bpm4ecY_mean vs run
χ² / ndf 87.65 / 99
p0 −3.028 ± 7.174
pull
Entries 100
Mean 298.7
Std Dev 0

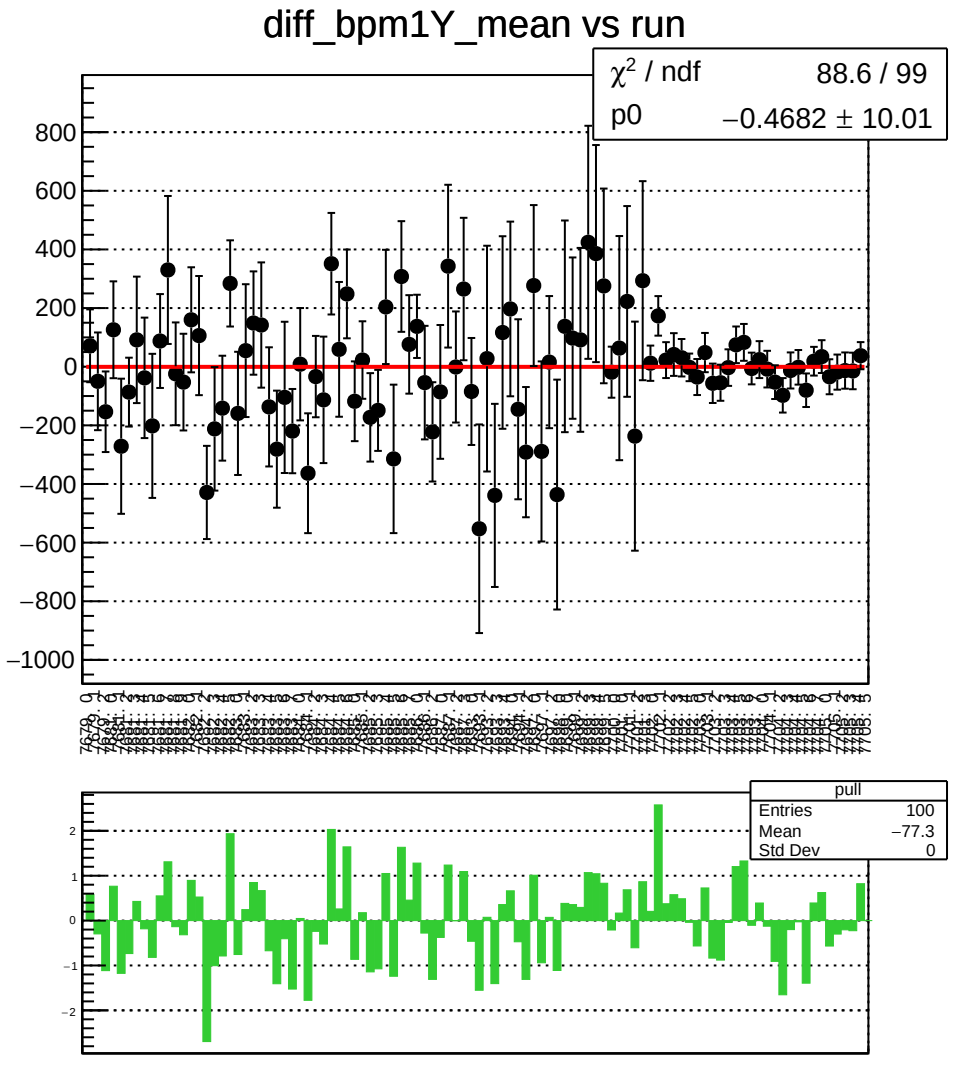

pull1D
Entries 100
Mean 0.006973
Std Dev 0.9362

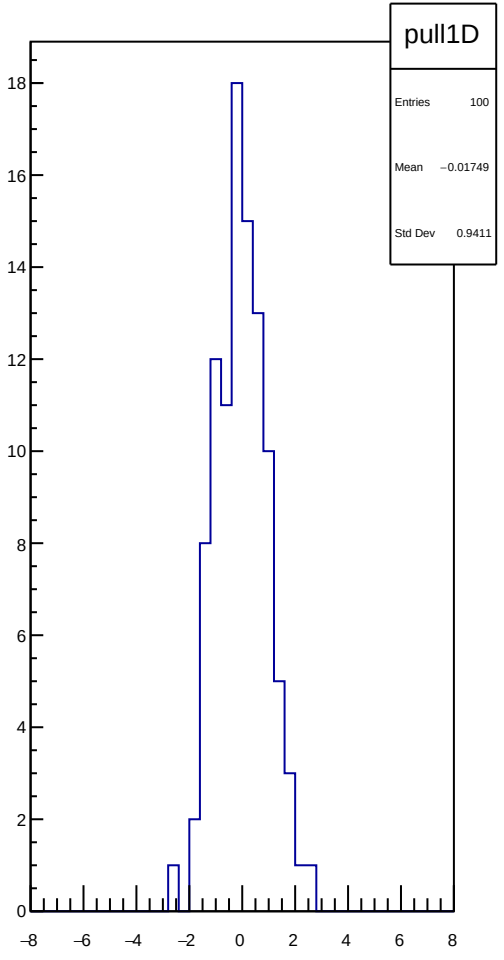

diff_bpm4ecY_rms vs run
χ² / ndf 1.629e+05 / 99
p0 6734 ± 5.073
16000
14000
12000
10000
8000
6000
4000

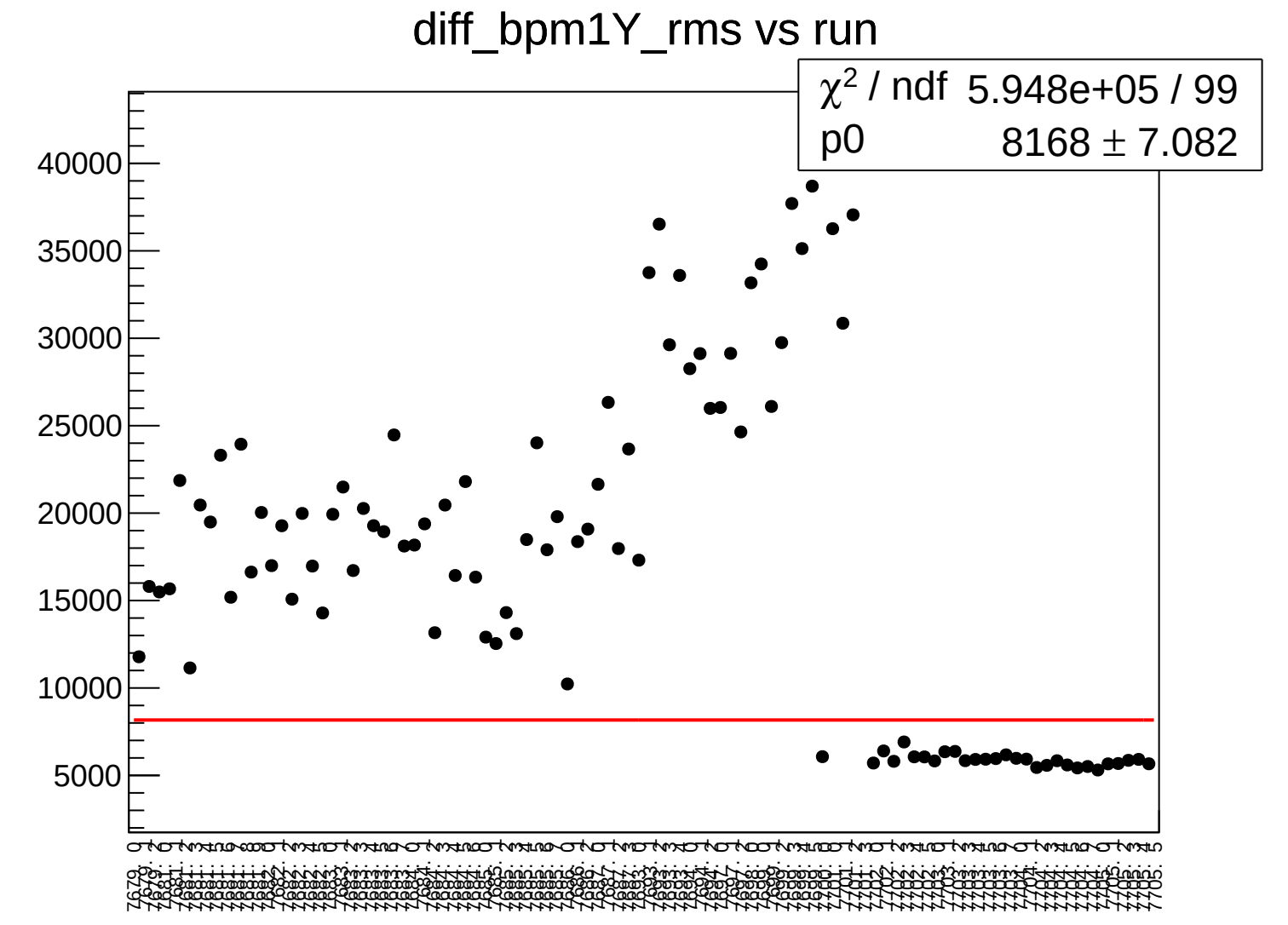

diff_bpm1X_mean vs run
χ^2 / ndf 88.27 / 99
p0 7.983 ± 24.38
1000
500
0
−500
−1000
pull
Entries 100
Mean 3028
Std Dev 0
2
1
0
−1
−2

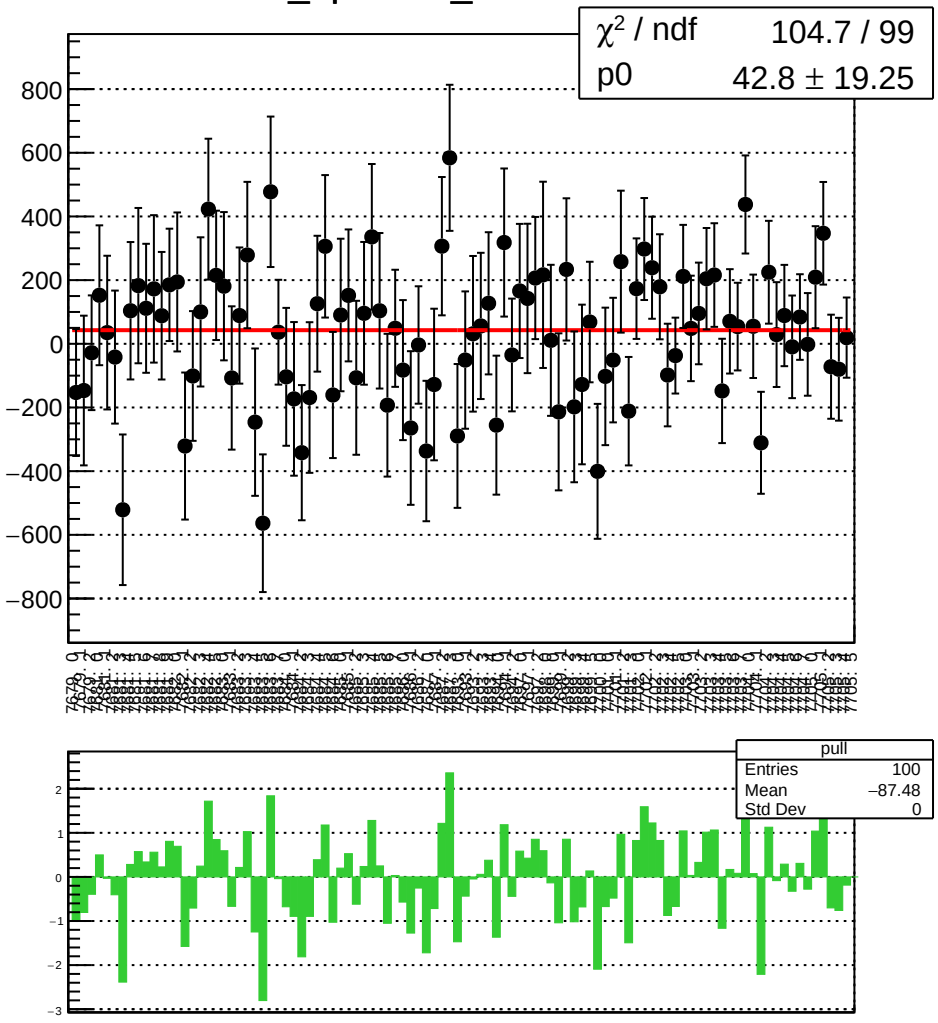

pull1D
Entries 100
Mean −0.001664
Std Dev 0.9395
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

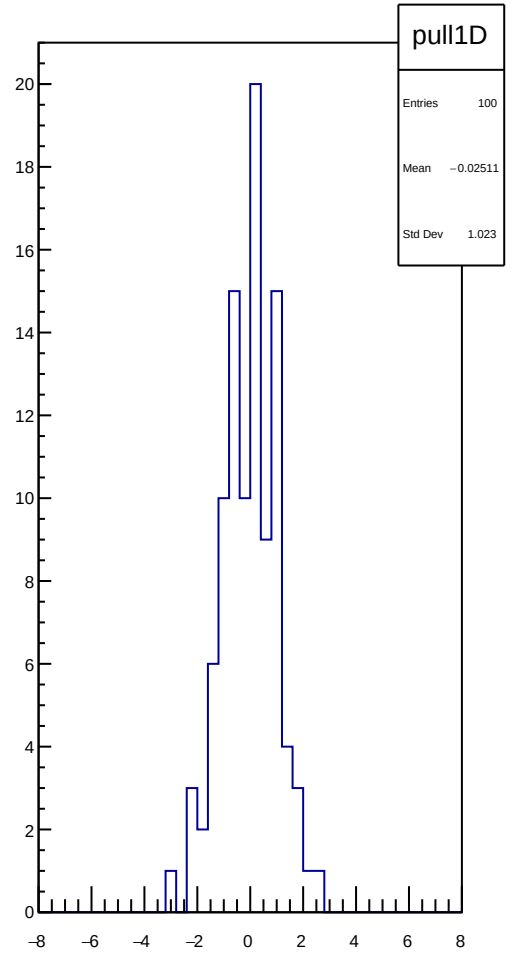

diff_bpm1X_rms vs run
χ² / ndf 6965 / 99
p0 2.388e+04 ± 17.24
27000
26000
25000
24000
23000
22000
21000
20000

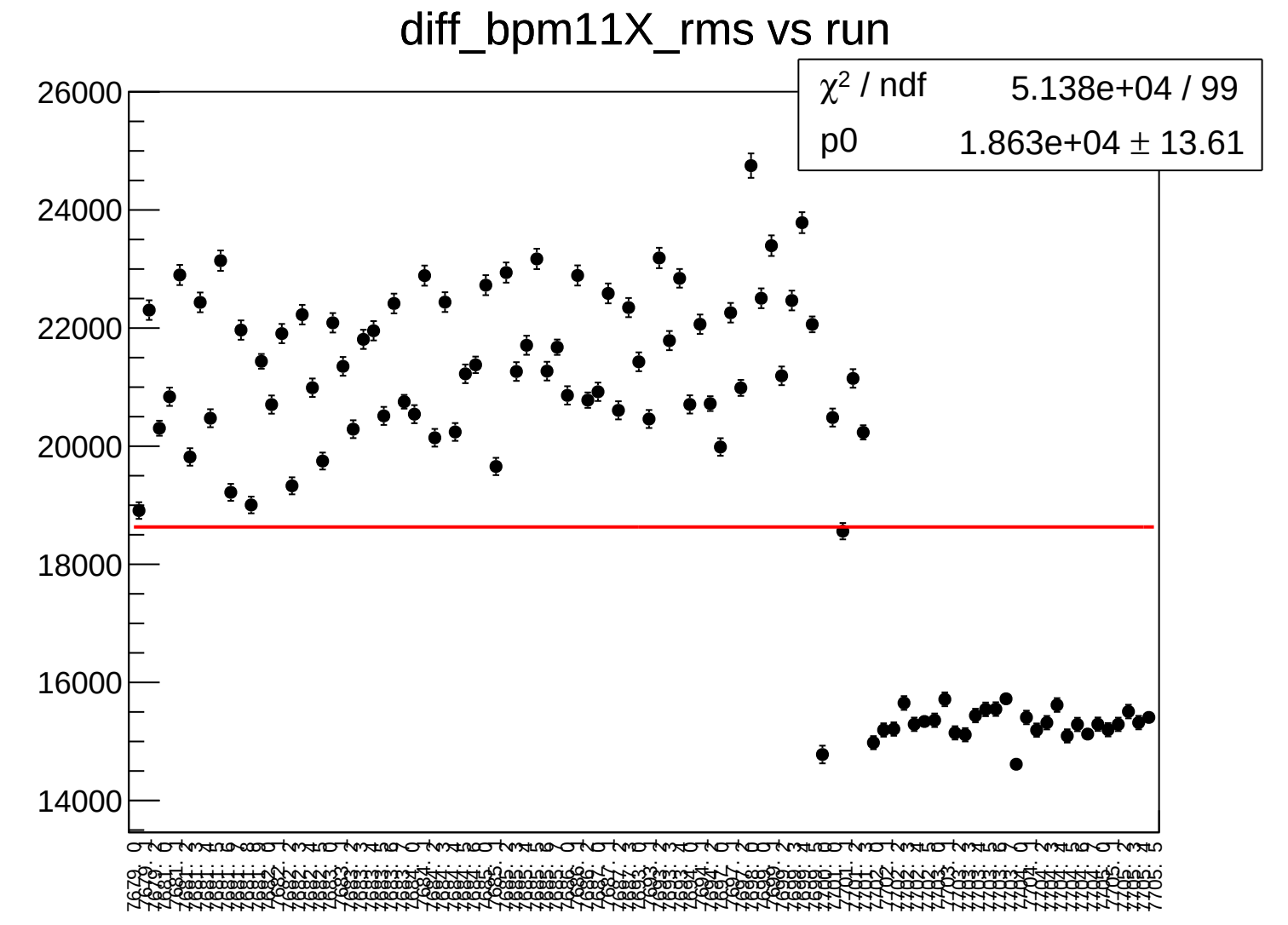

diff_bpm1Y_mean vs run
χ² / ndf 88.6 / 99
p0 −0.4682 ± 10.01
pull
Entries 100
Mean −77.3
Std Dev 0

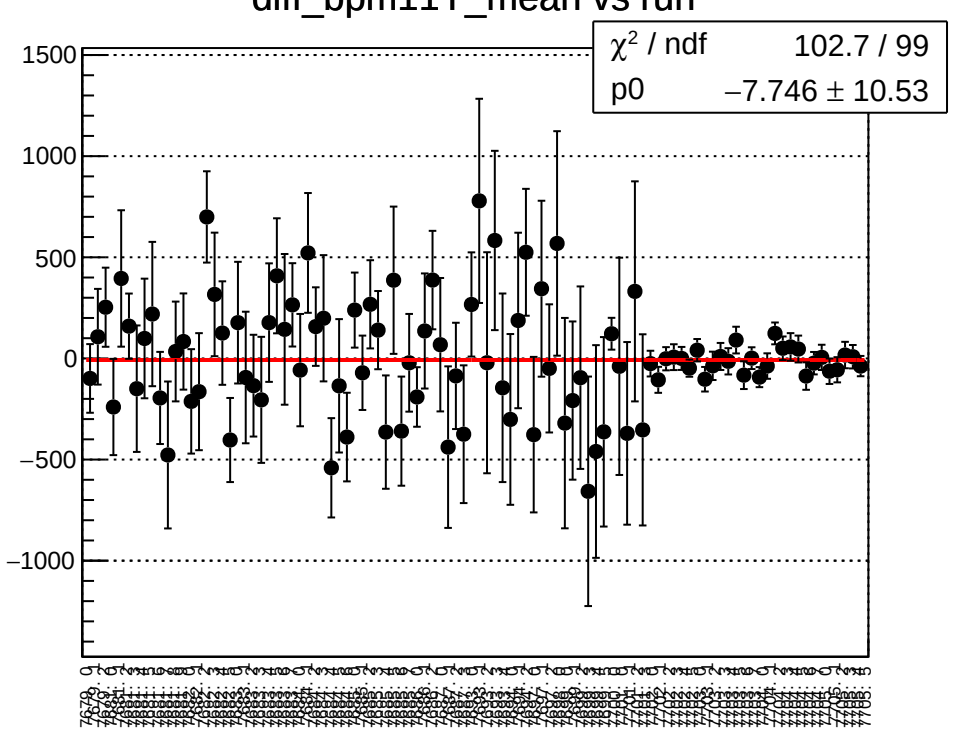

pull1D
Entries 100
Mean −0.01749
Std Dev 0.9411

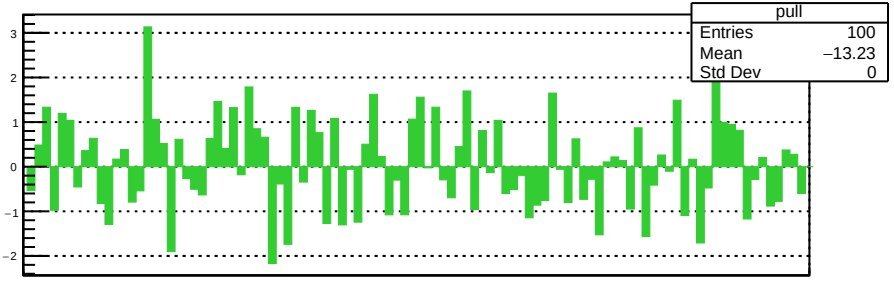

diff_bpm1Y_rms vs run
χ^2 / ndf 5.948e+05 / 99
p0 8168 ± 7.082
40000
35000
30000
25000
20000
15000
10000
5000

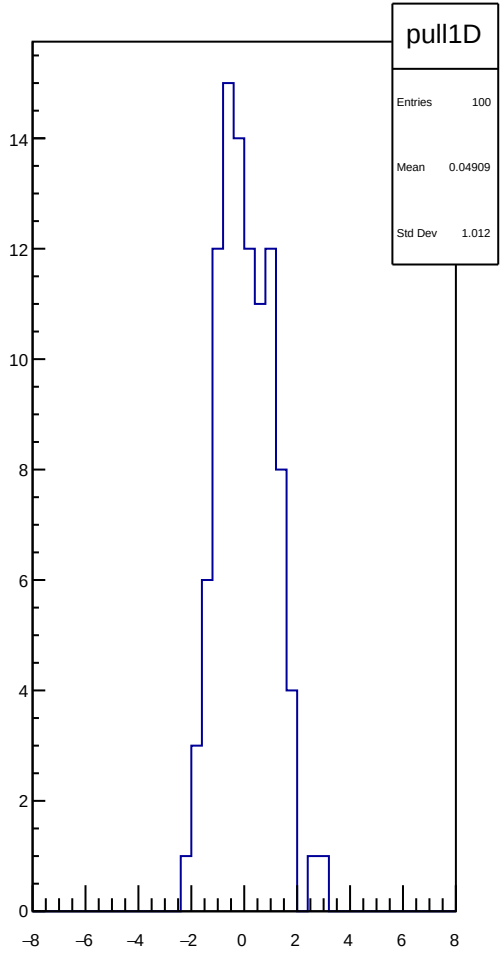

diff_bpm11X_mean vs run
χ² / ndf 104.7 / 99
p0 42.8 ± 19.25
pull
Entries 100
Mean −87.48
Std Dev 0

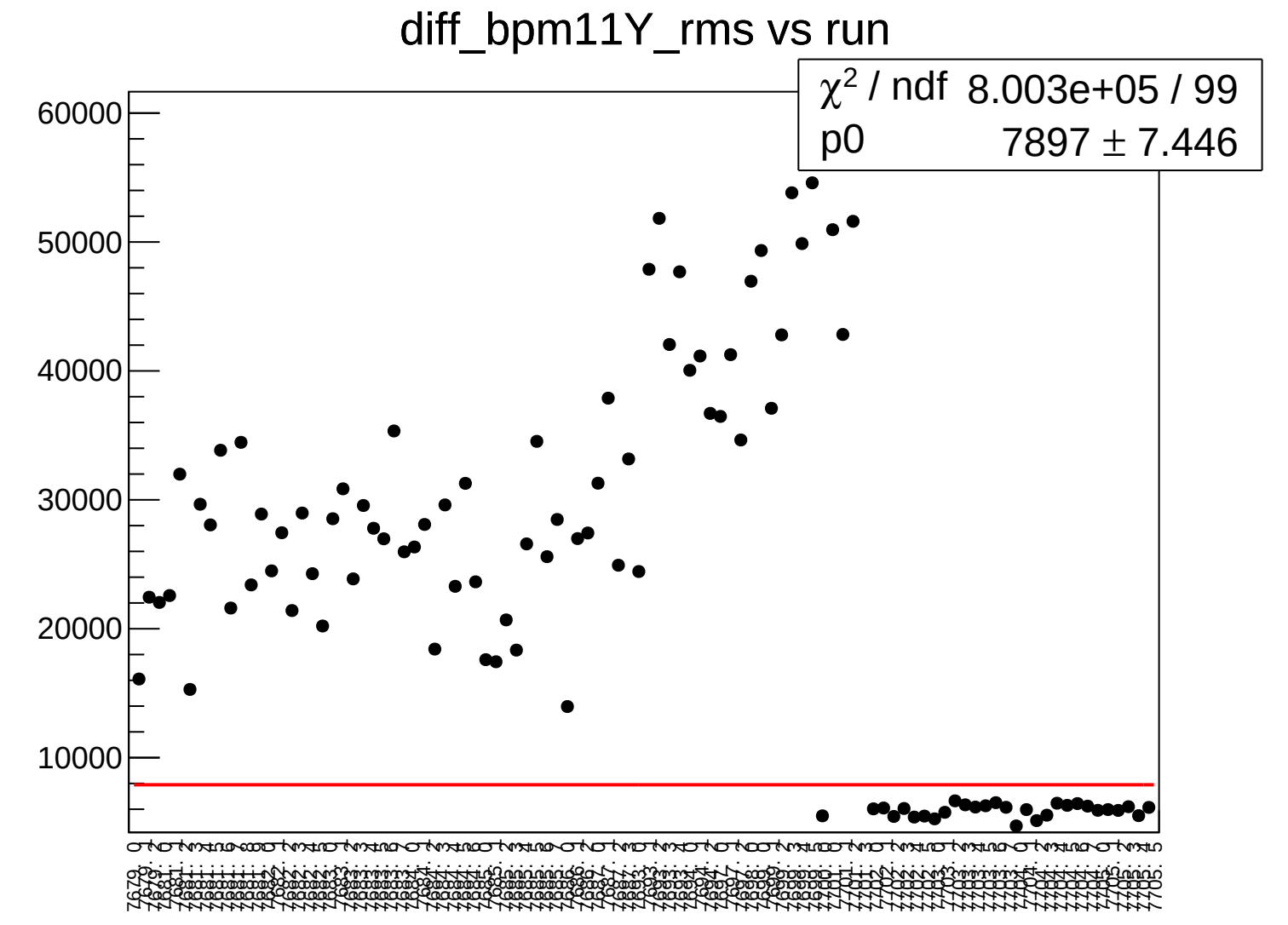

pull1D
Entries 100
Mean −0.02511
Std Dev 1.023

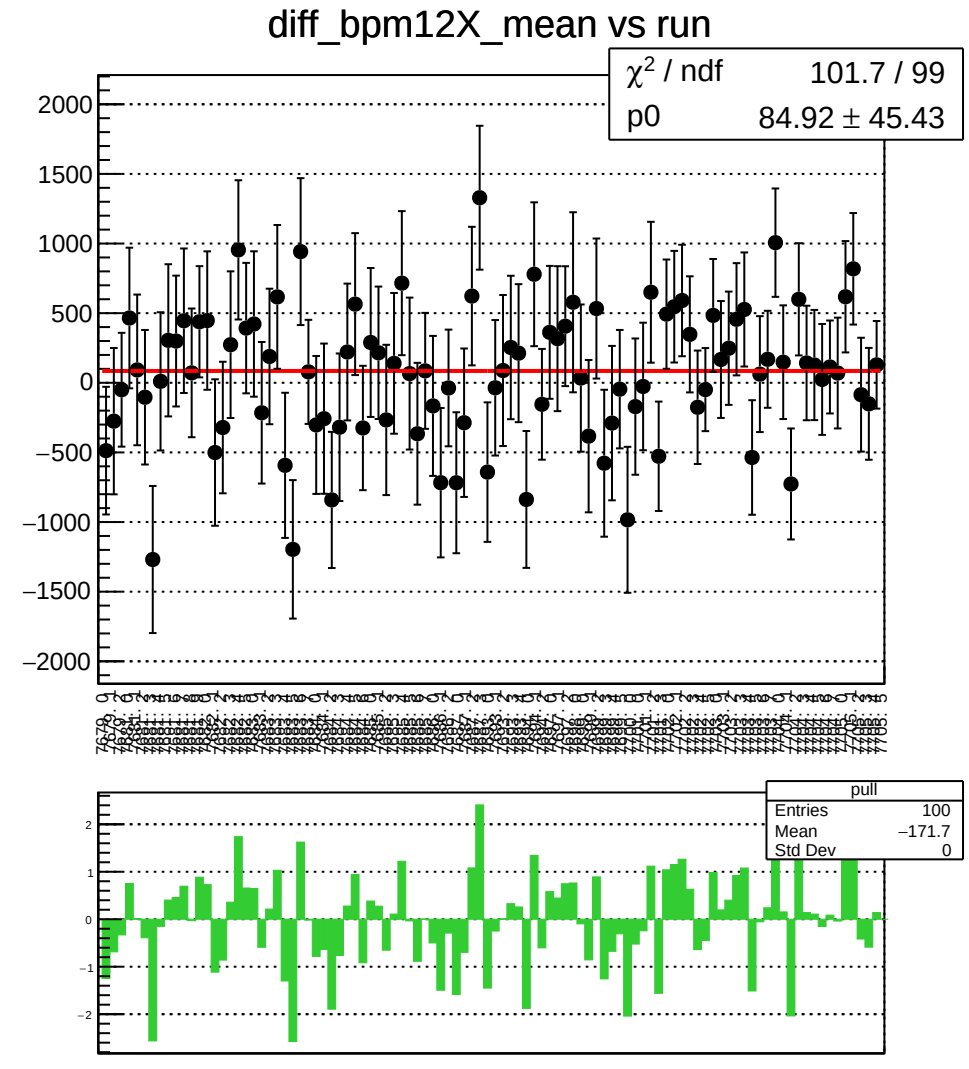

diff_bpm11X_rms vs run
χ² / ndf 5.138e+04 / 99
p0 1.863e+04 ± 13.61
26000
24000
22000
20000
18000
16000
14000

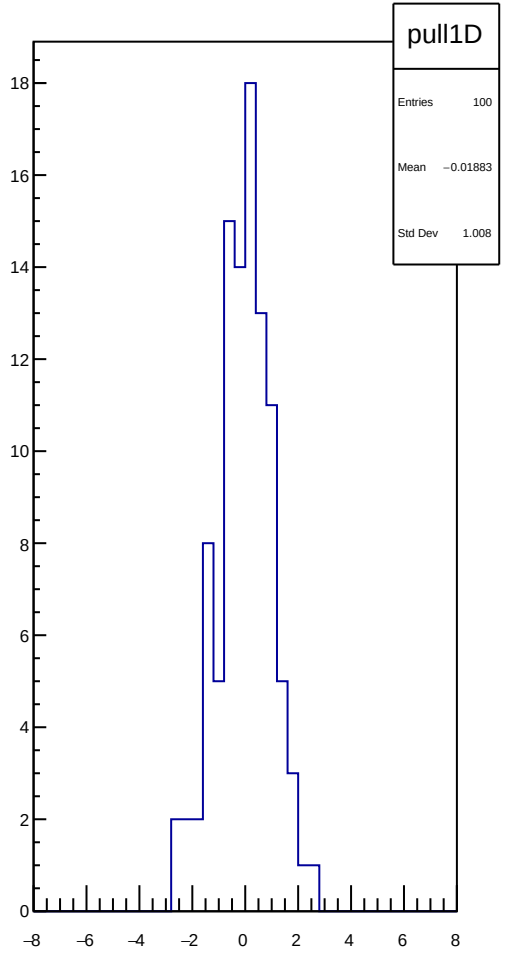

diff_bpm11Y_mean vs run
χ² / ndf 102.7 / 99
p0 −7.746 ± 10.53
1500
1000
500
0
−500
−1000

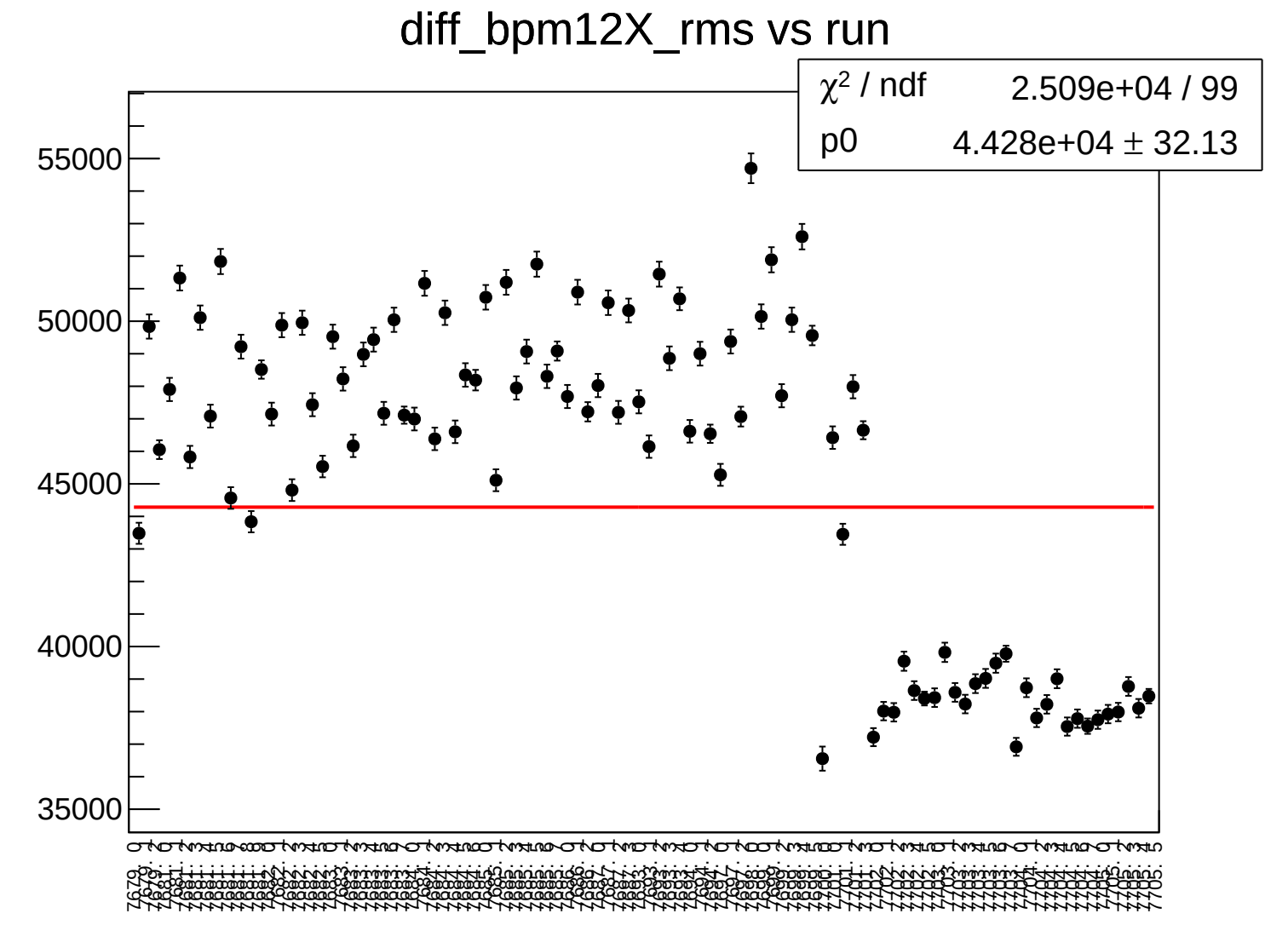

pull
Entries 100
Mean −13.23
Std Dev 0
3
2
1
0
−1
−2

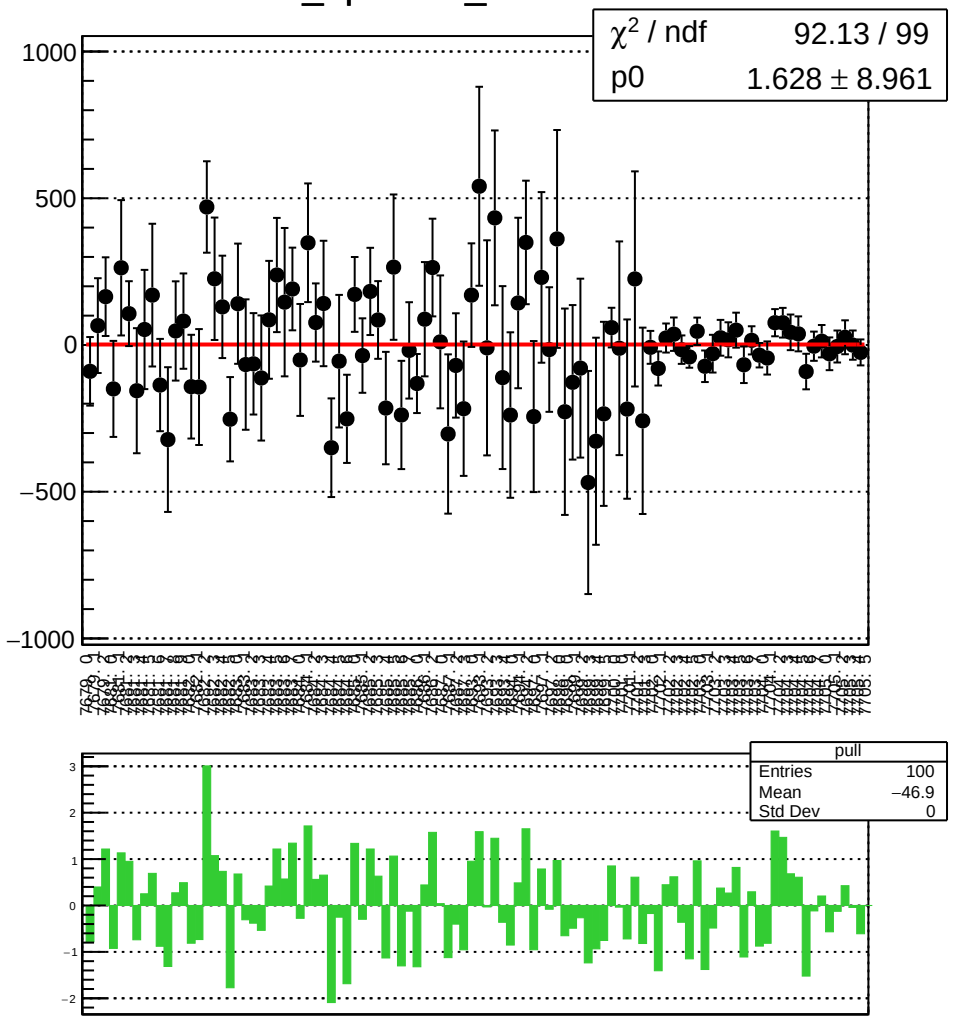

pull1D
Entries 100
Mean 0.04909
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

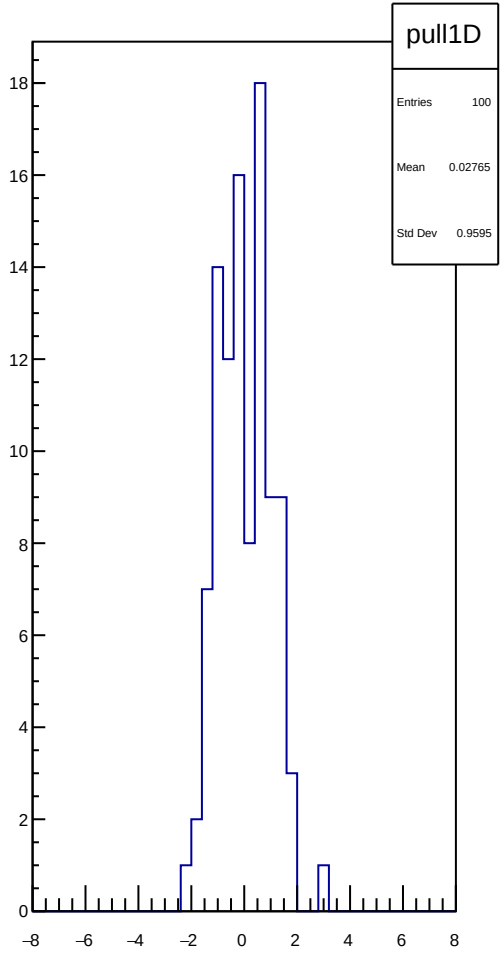

diff_bpm11Y_rms vs run
χ^2 / ndf 8.003e+05 / 99
p0 7897 ± 7.446
60000
50000
40000
30000
20000
10000

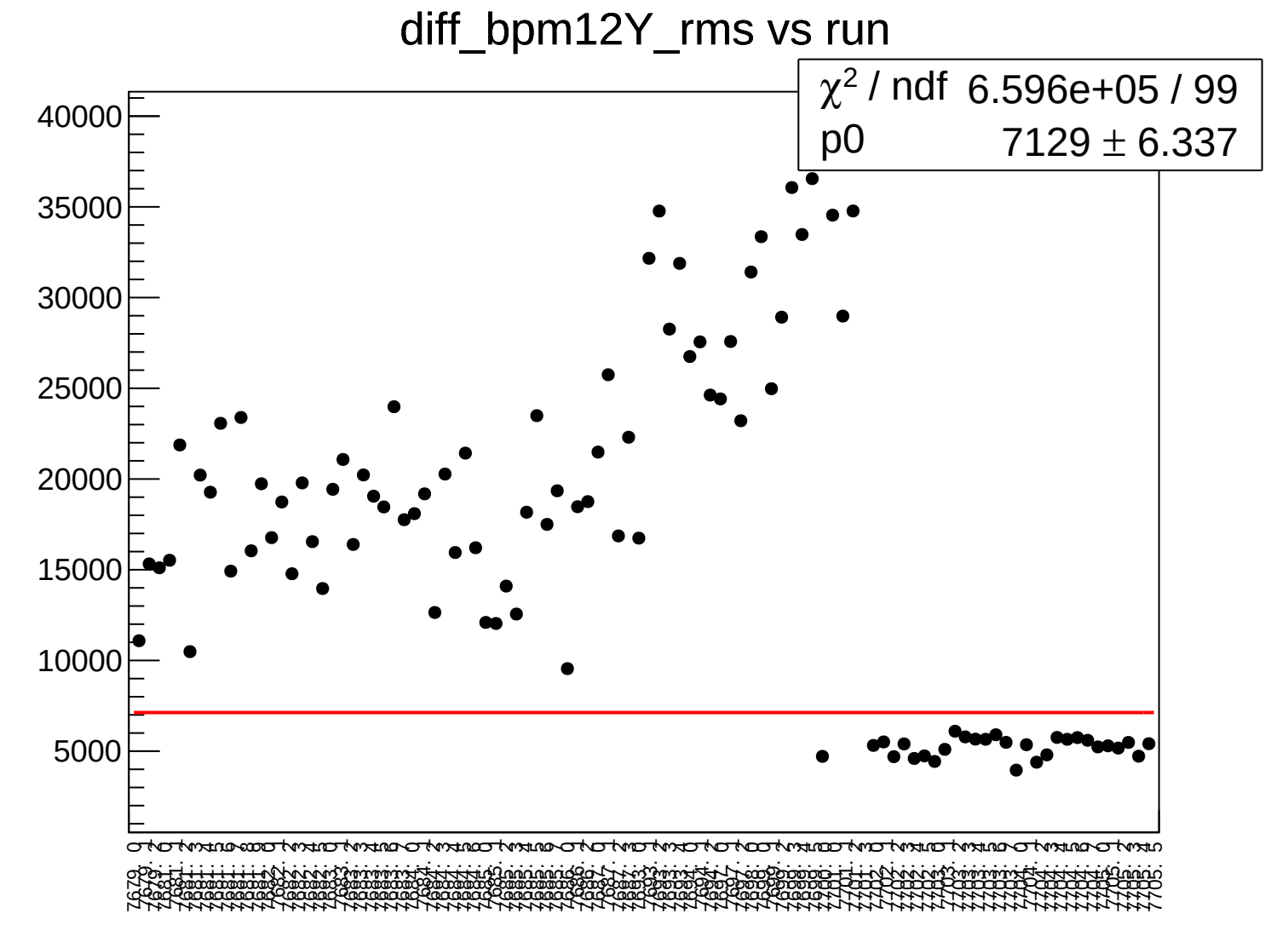

diff_bpm12X_mean vs run
χ² / ndf 101.7 / 99
p0 84.92 ± 45.43
pull
Entries 100
Mean −171.7
Std Dev 0

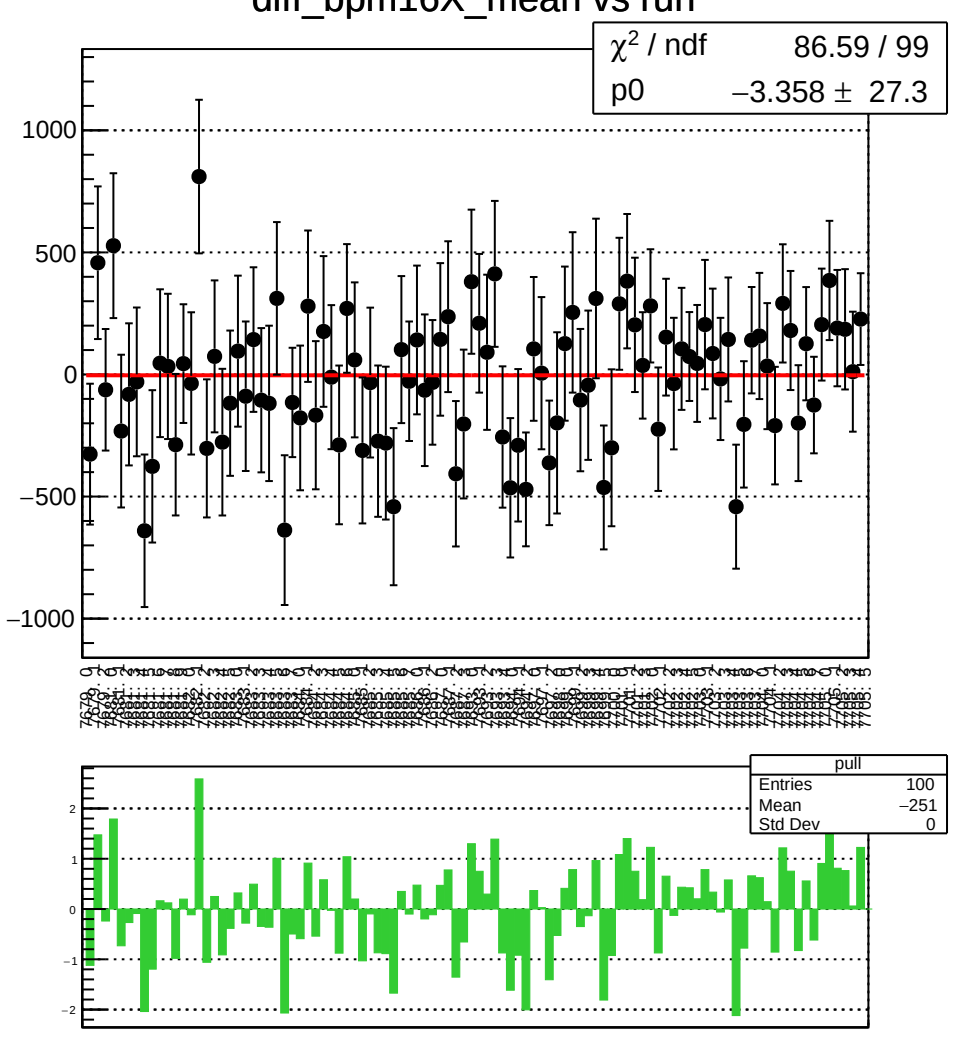

pull1D
Entries 100
Mean −0.01883
Std Dev 1.008

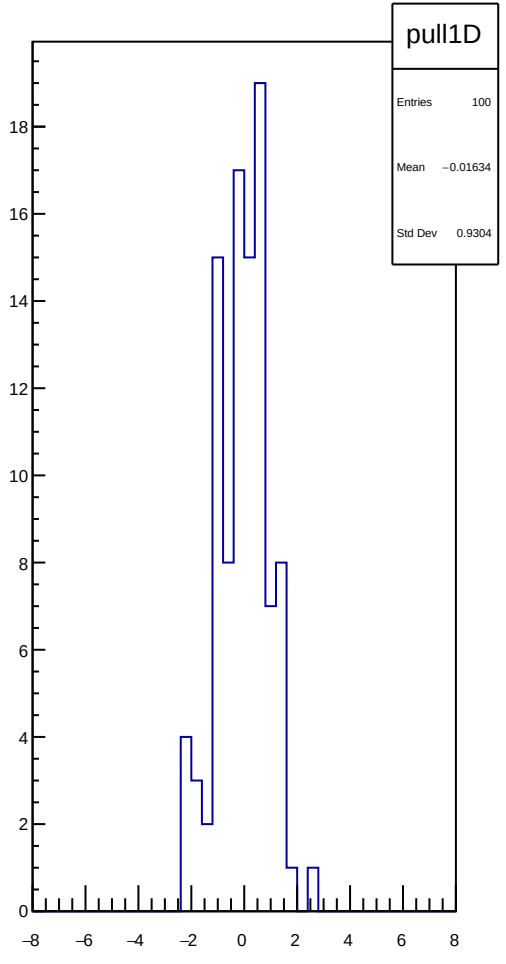

diff_bpm12X_rms vs run
χ² / ndf 2.509e+04 / 99
p0 4.428e+04 ± 32.13
55000
50000
45000
40000
35000

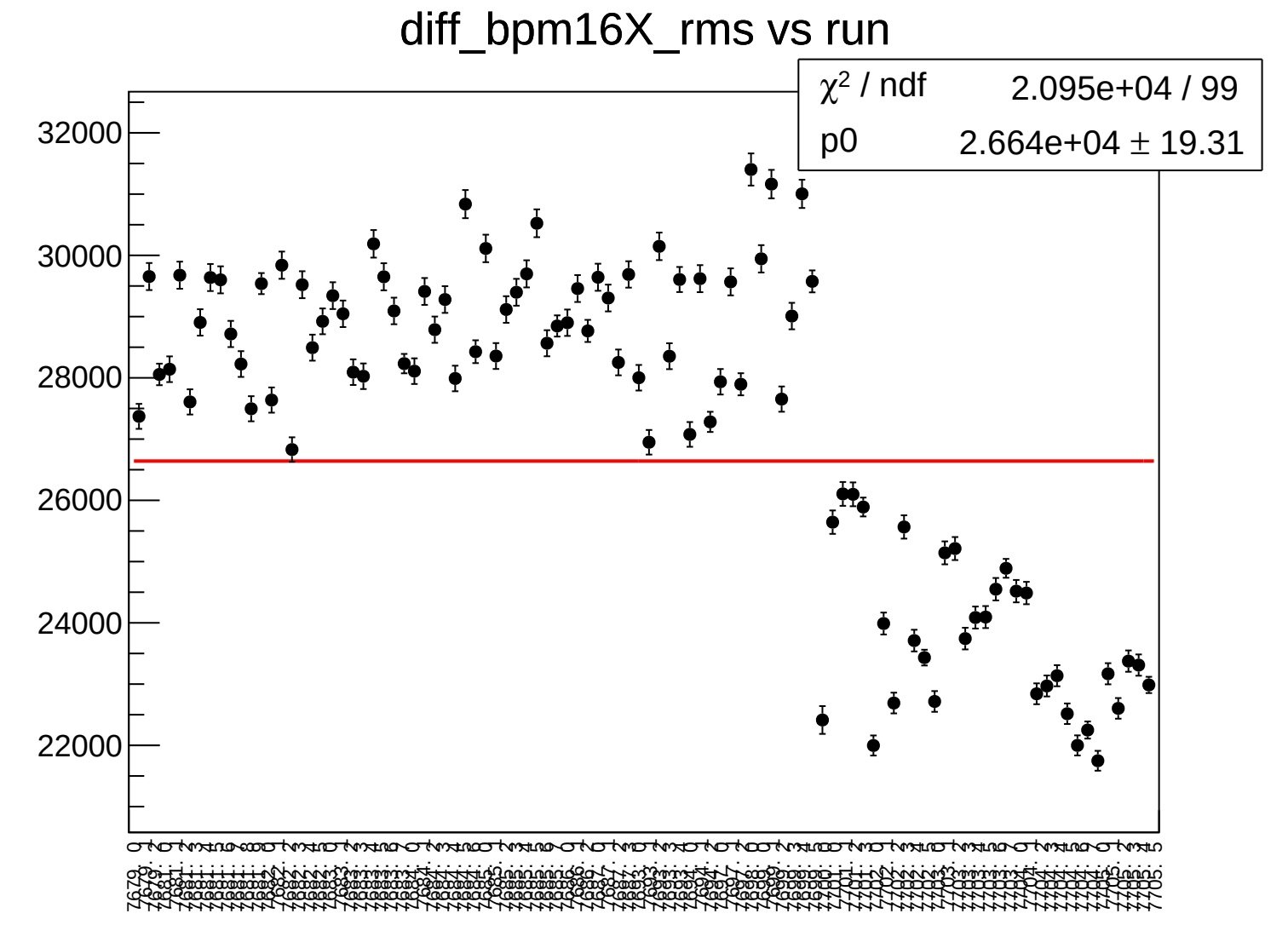

diff_bpm12Y_mean vs run
χ² / ndf 92.13 / 99
p0 1.628 ± 8.961
1000
500
0
−500
−1000
pull
Entries 100
Mean −46.9
Std Dev 0
3
2
1
0
−1
−2

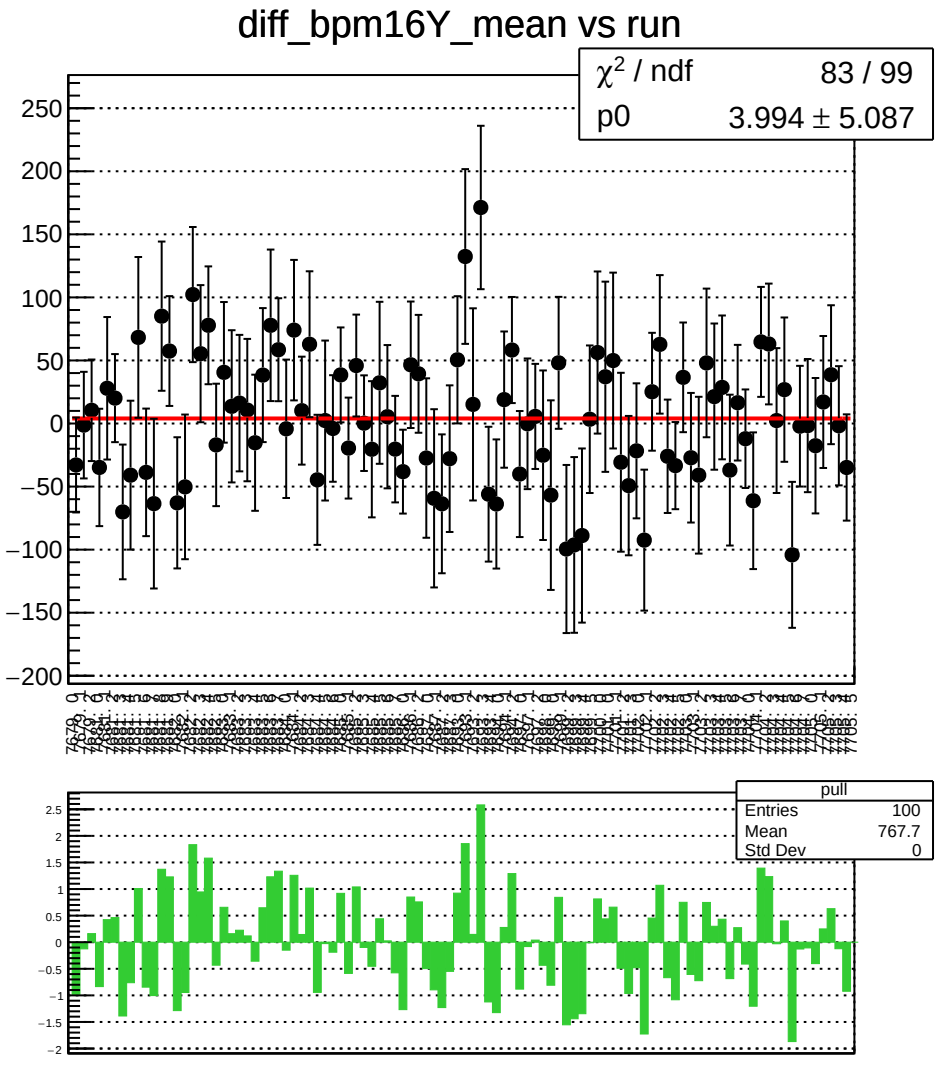

pull1D
Entries 100
Mean 0.02765
Std Dev 0.9595
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

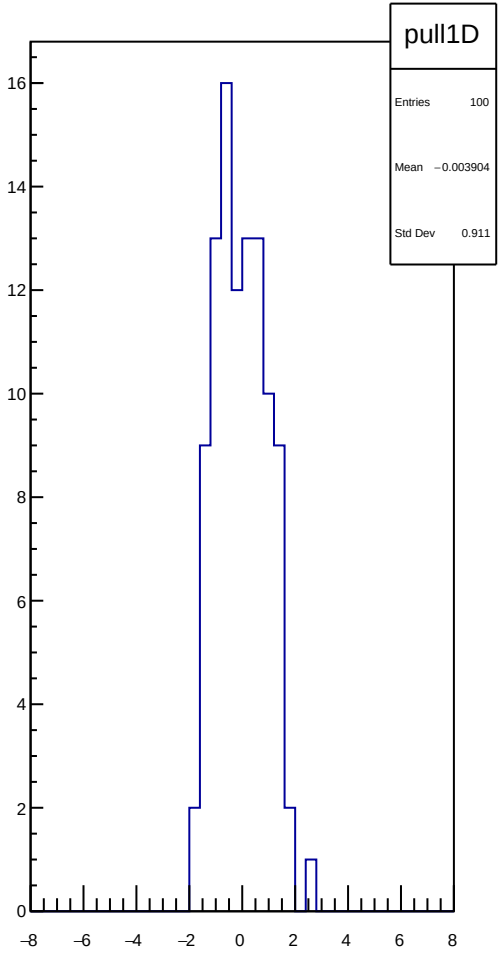

diff_bpm12Y_rms vs run
χ² / ndf 6.596e+05 / 99
p0 7129 ± 6.337
40000
35000
30000
25000
20000
15000
10000
5000


diff_bpm16X_mean vs run
χ² / ndf 86.59 / 99
p0 −3.358 ± 27.3
1000
500
0
−500
−1000
pull
Entries 100
Mean −251
Std Dev 0
2
1
0
−1
−2

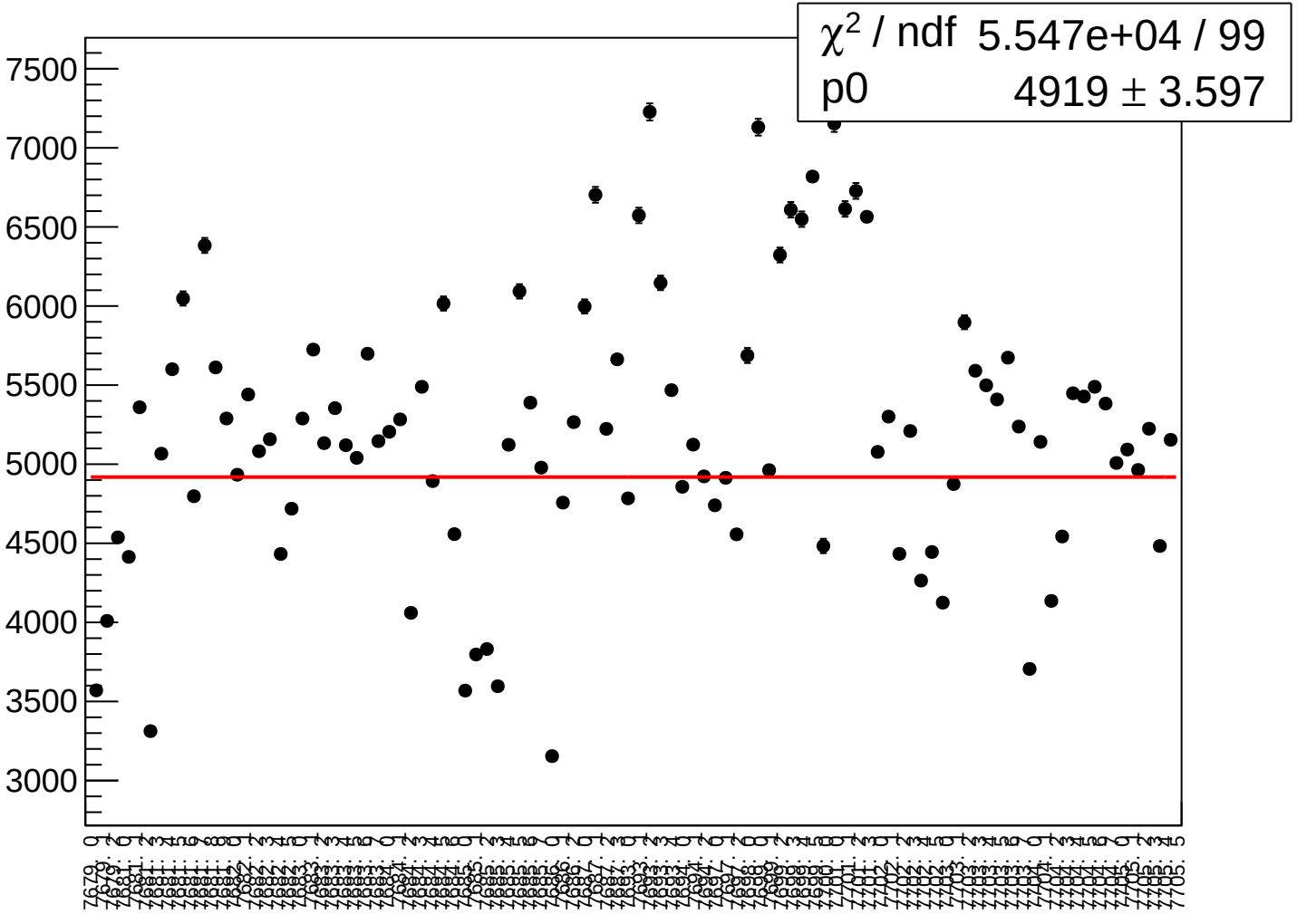

pull1D
Entries 100
Mean −0.01634
Std Dev 0.9304
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

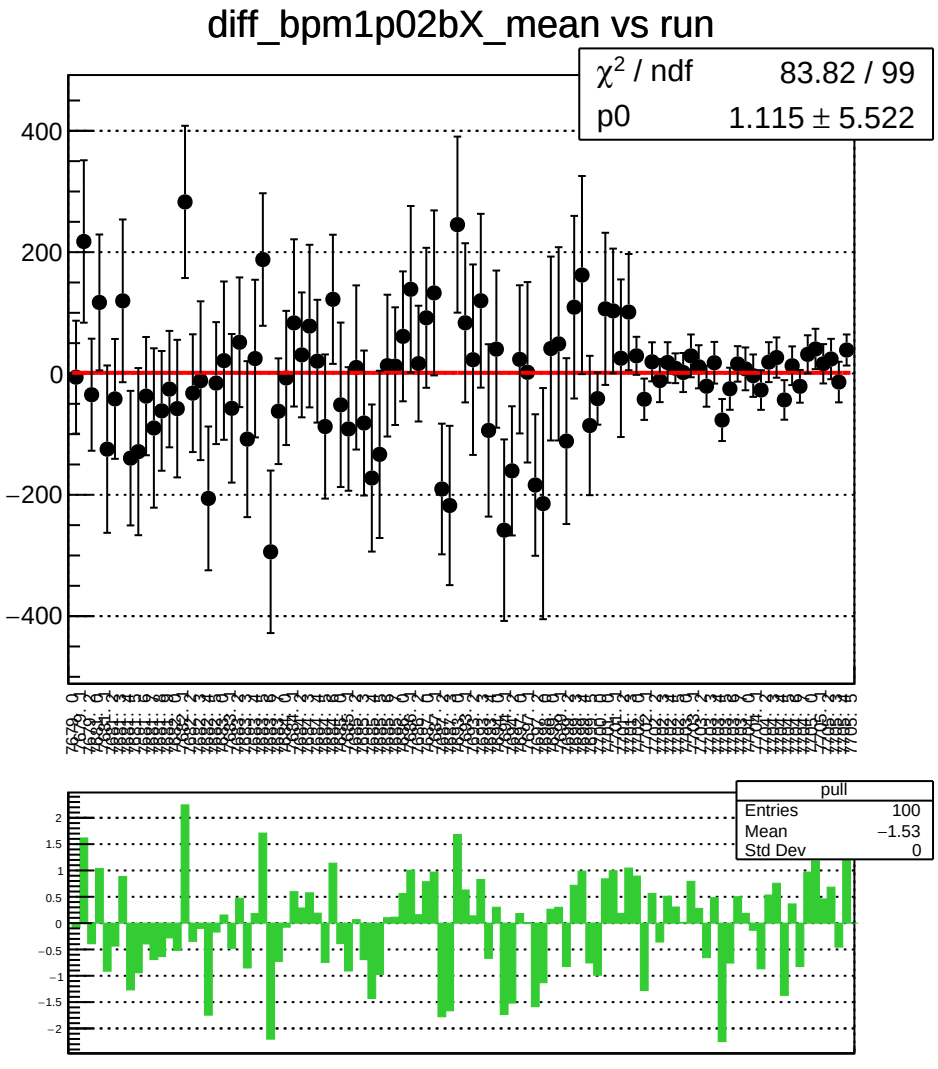

diff_bpm16X_rms vs run
χ² / ndf 2.095e+04 / 99
p0 2.664e+04 ± 19.31
32000
30000
28000
26000
24000
22000

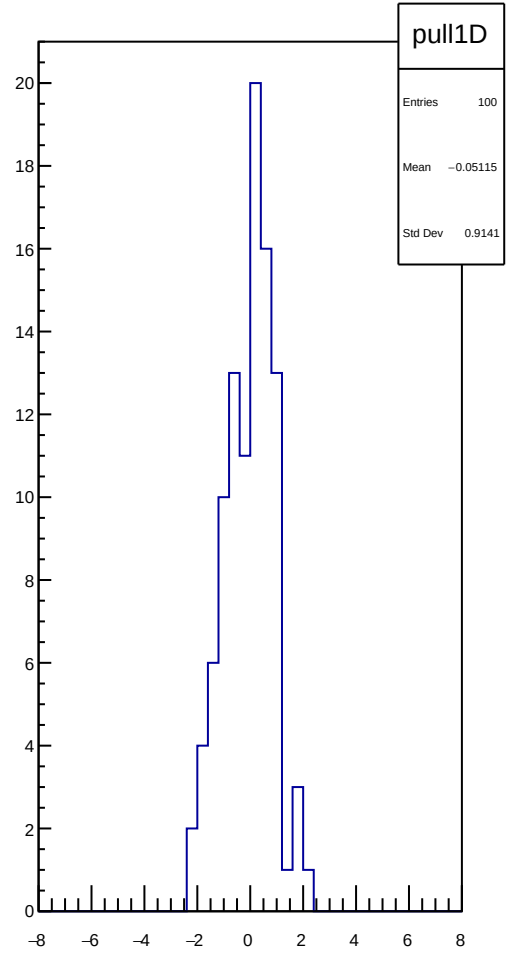

diff_bpm16Y_mean vs run
χ² / ndf 83 / 99
p0 3.994 ± 5.087
pull
Entries 100
Mean 767.7
Std Dev 0

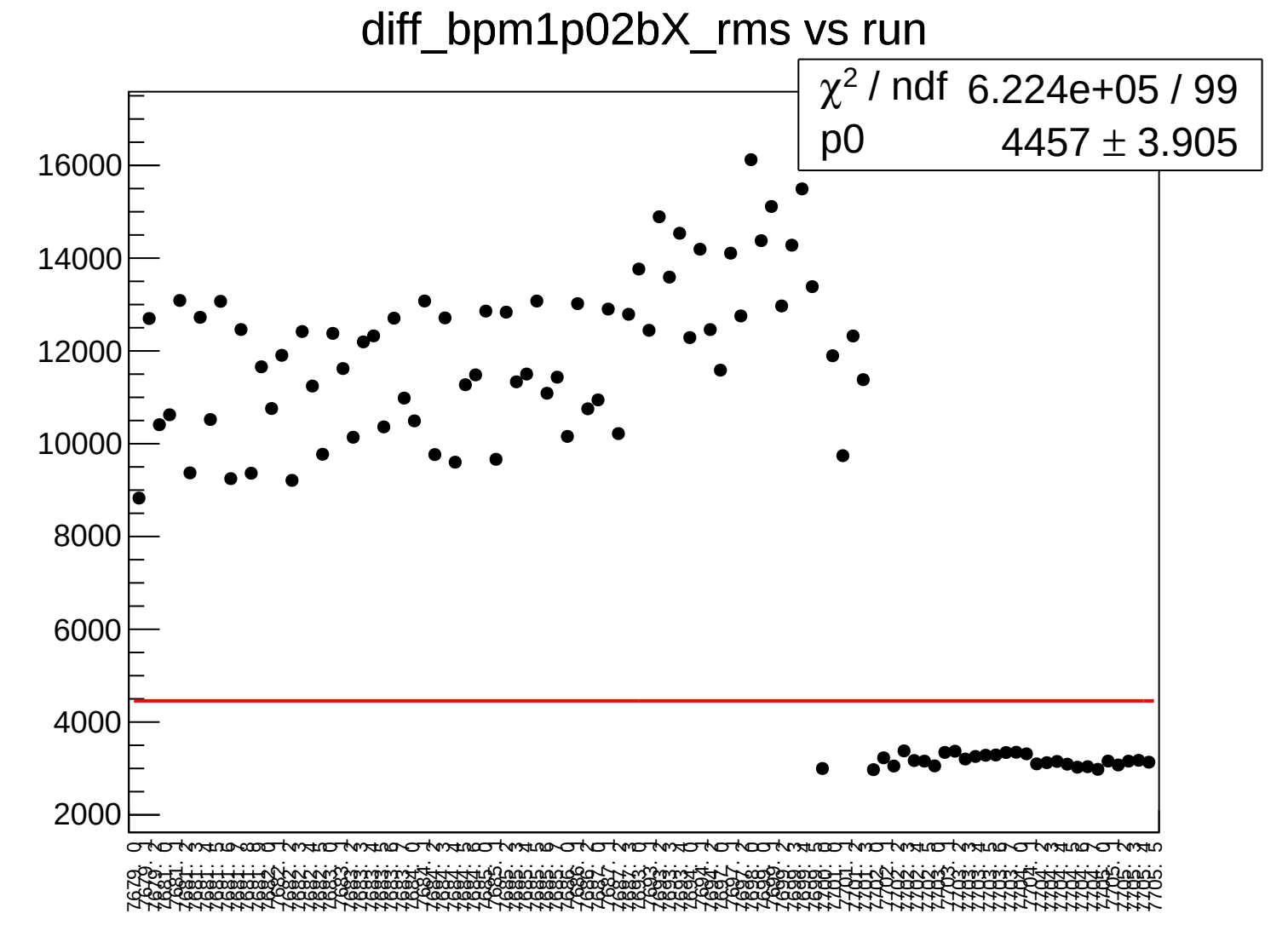

pull1D
Entries 100
Mean −0.003904
Std Dev 0.911

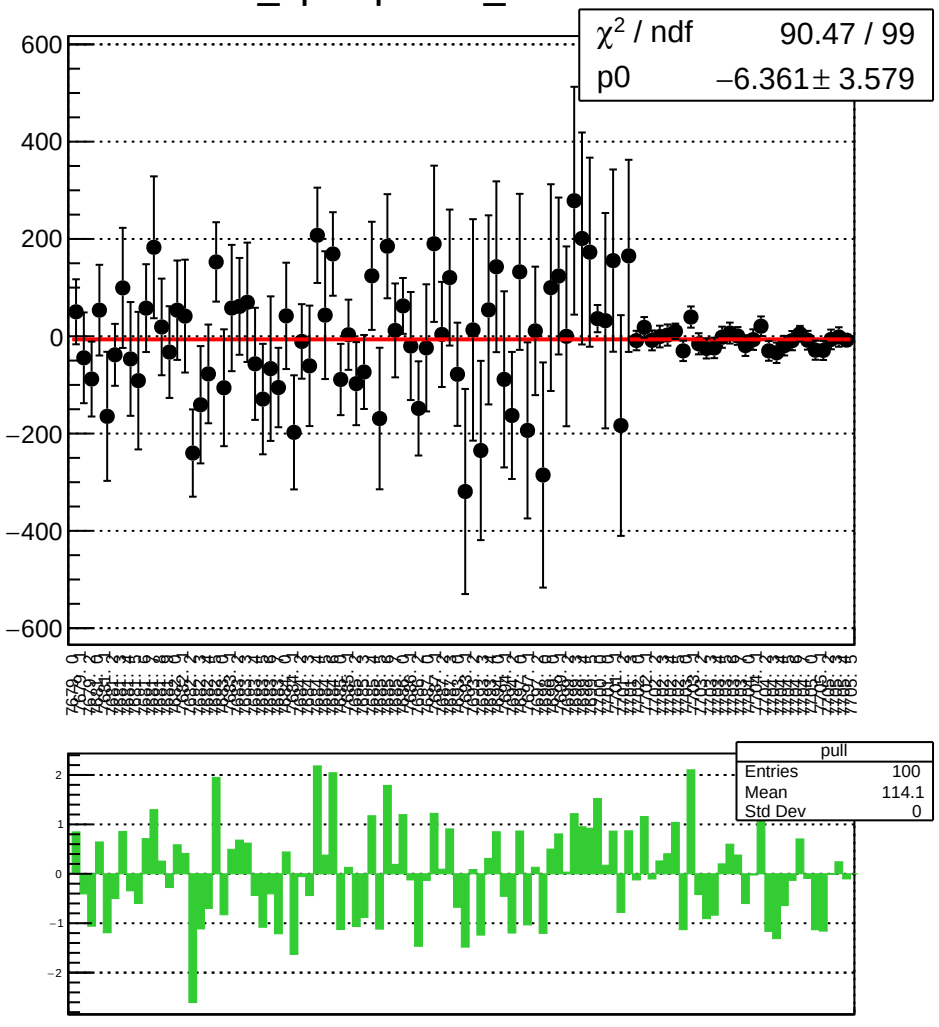
diff_bpm16Y_rms vs run

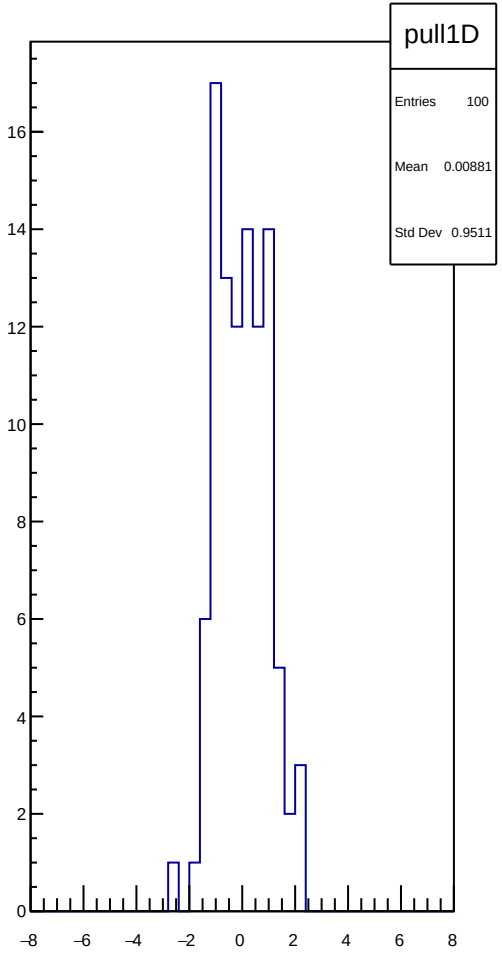


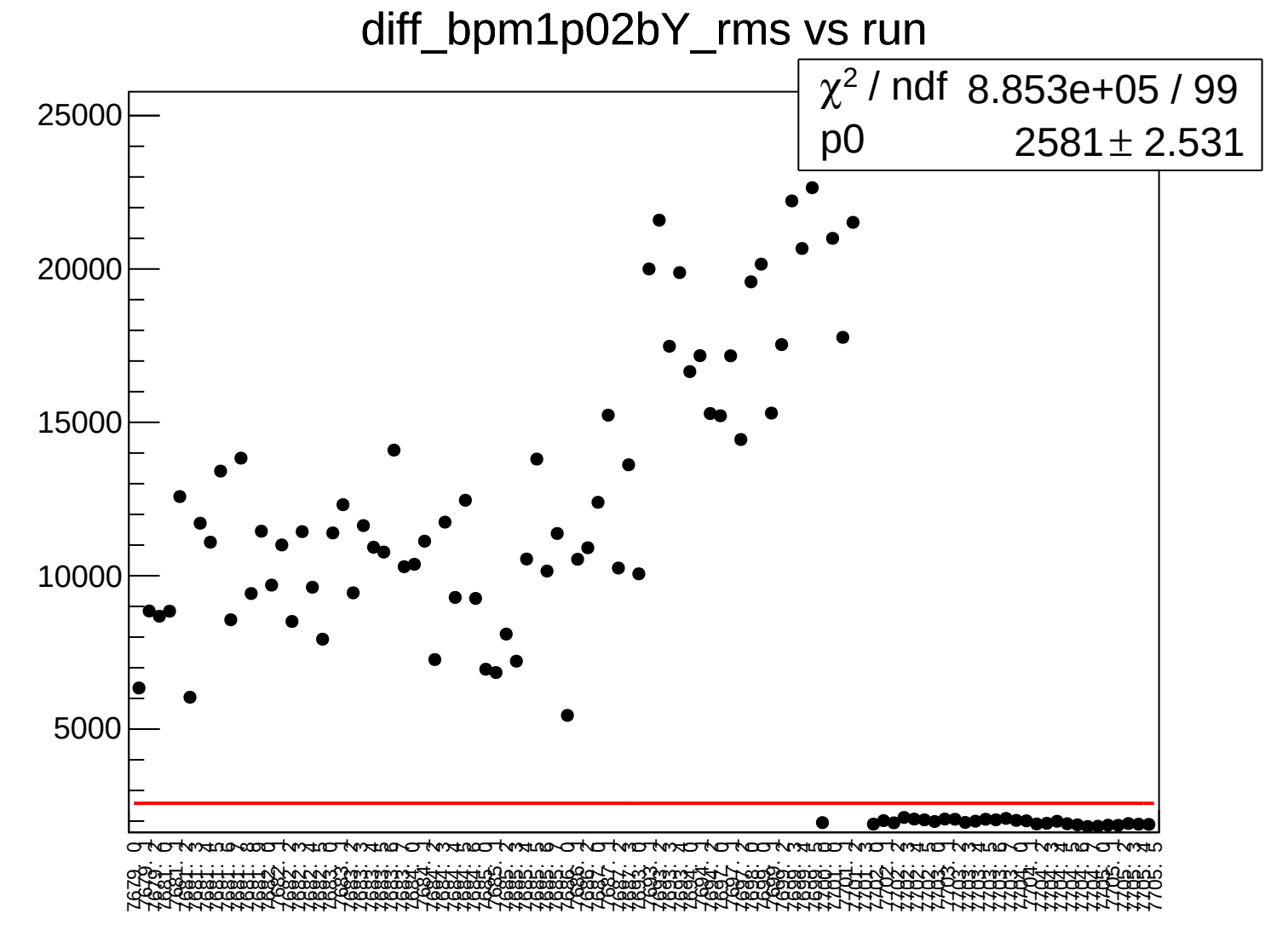

diff_bpm1p02bX_mean vs run
χ² / ndf 83.82 / 99
p0 1.115 ± 5.522
400
200
0
−200
−400
pull
Entries 100
Mean −1.53
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

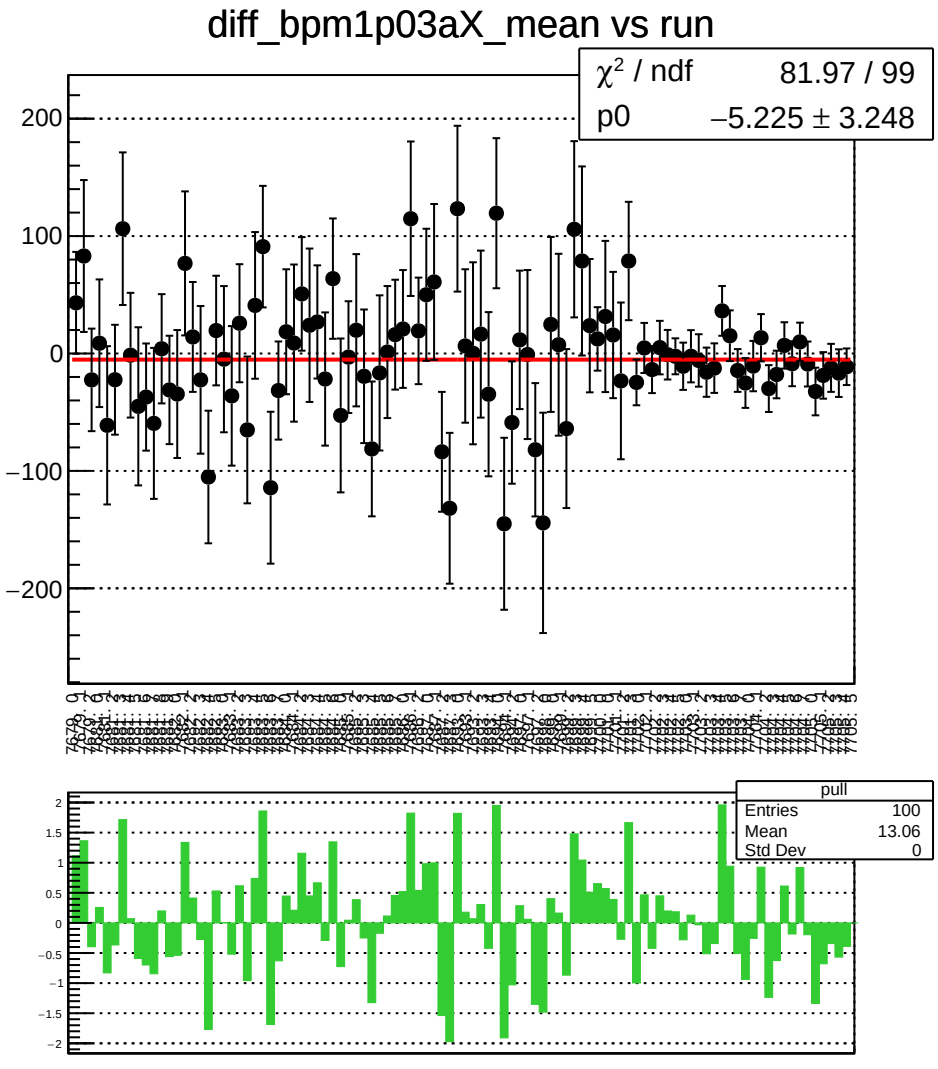

pull1D
Entries 100
Mean −0.05115
Std Dev 0.9141
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

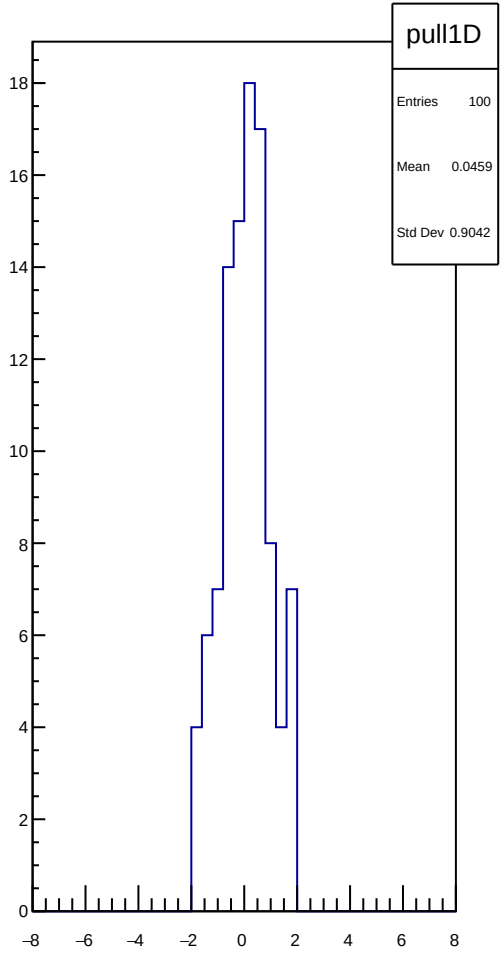

diff_bpm1p02bX_rms vs run
χ² / ndf 6.224e+05 / 99
p0 4457 ± 3.905
16000
14000
12000
10000
8000
6000
4000
2000

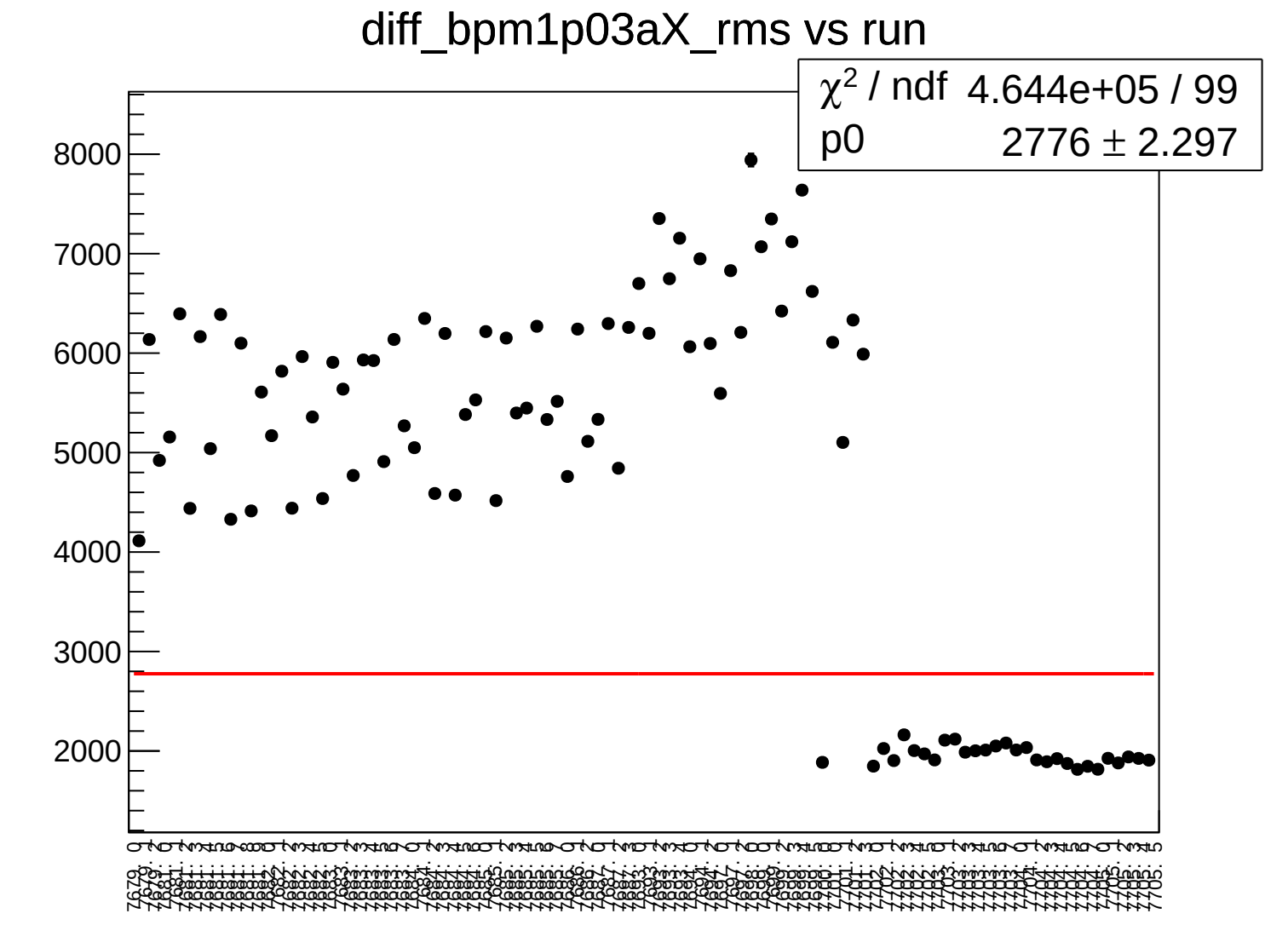

diff_bpm1p02bY_mean vs run
χ² / ndf 90.47 / 99
p0 −6.361 ± 3.579
pull
Entries 100
Mean 114.1
Std Dev 0

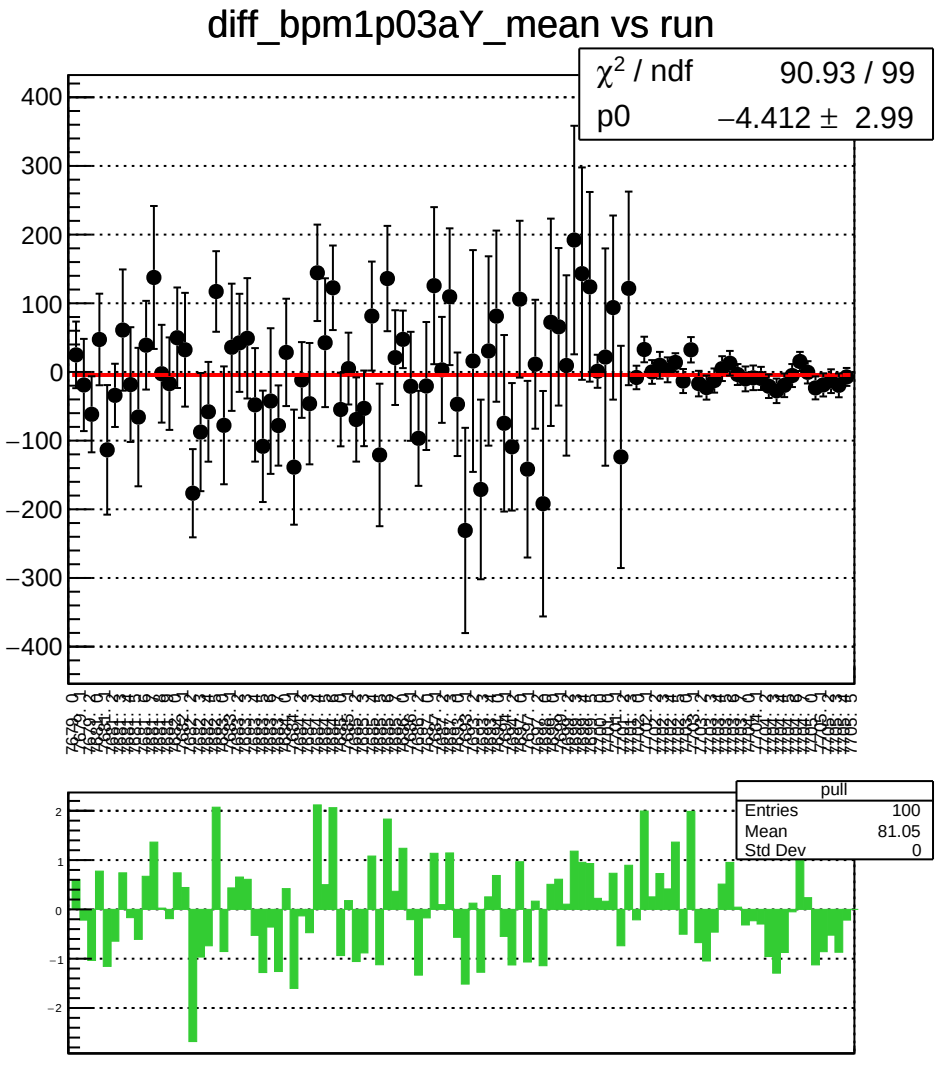

pull1D
Entries 100
Mean 0.00881
Std Dev 0.9511

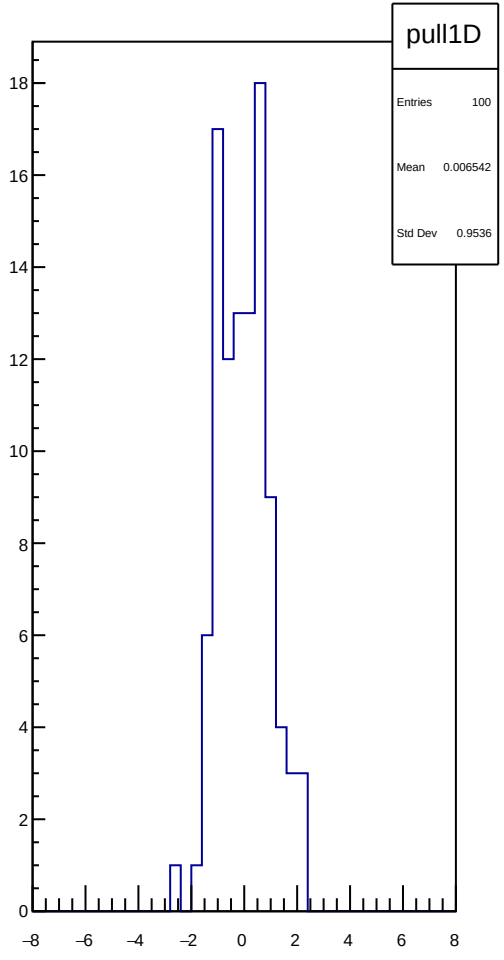

diff_bpm1p02bY_rms vs run
χ^2 / ndf 8.853e+05 / 99
p0 2581 ± 2.531
25000
20000
15000
10000
5000

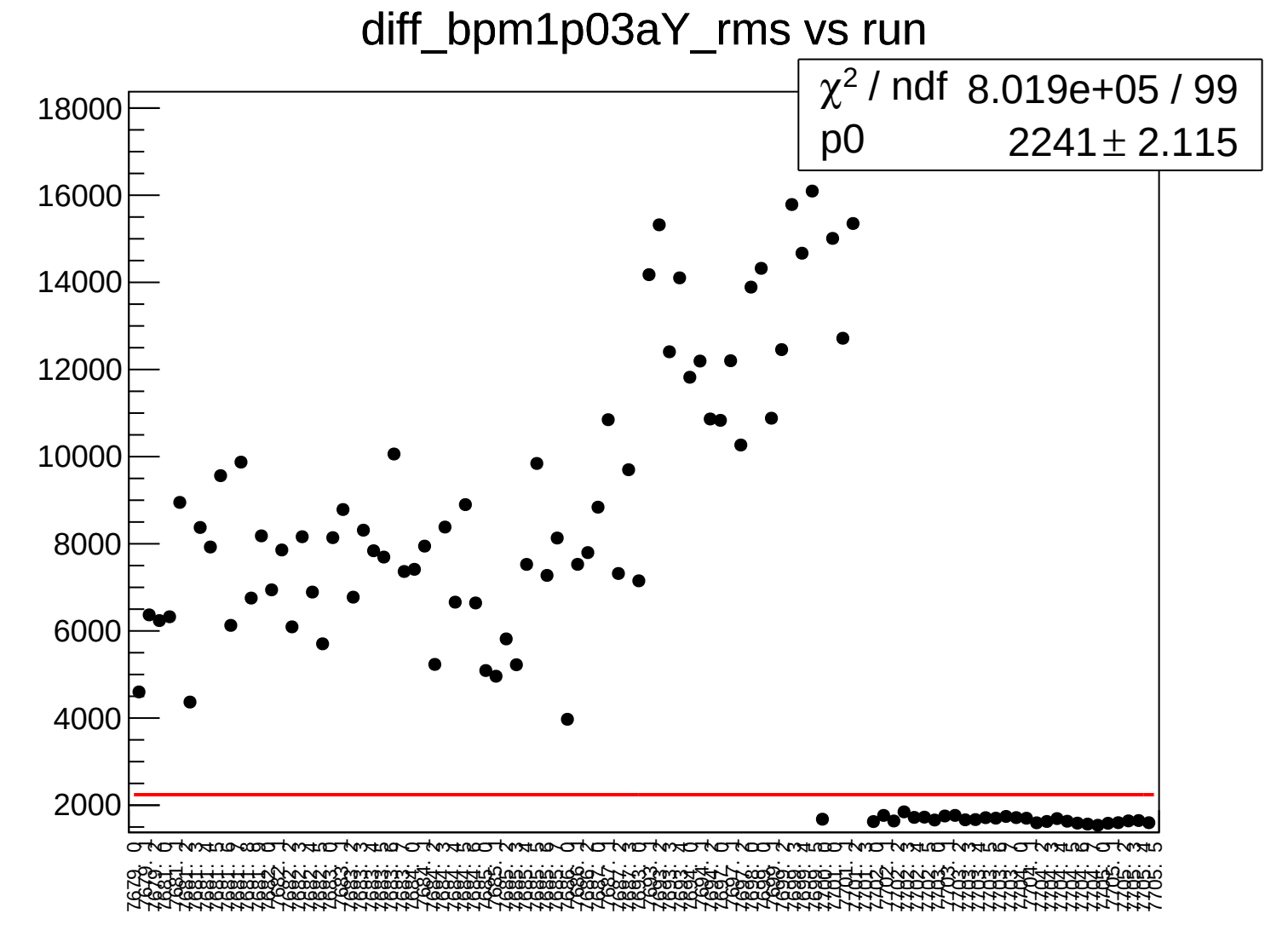

diff_bpm1p03aX_mean vs run
χ² / ndf 81.97 / 99
p0 −5.225 ± 3.248
200
100
0
−100
−200
pull
Entries 100
Mean 13.06
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

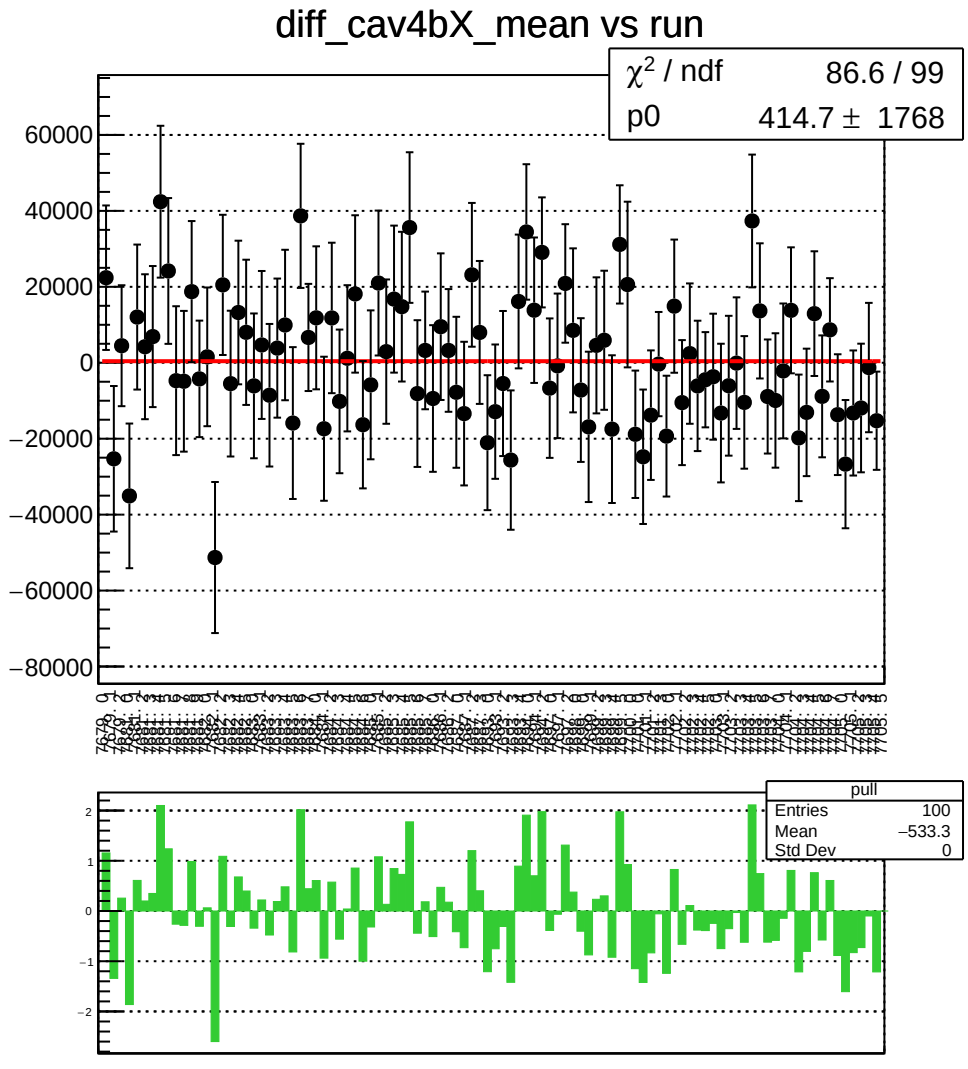

pull1D
Entries 100
Mean 0.0459
Std Dev 0.9042
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

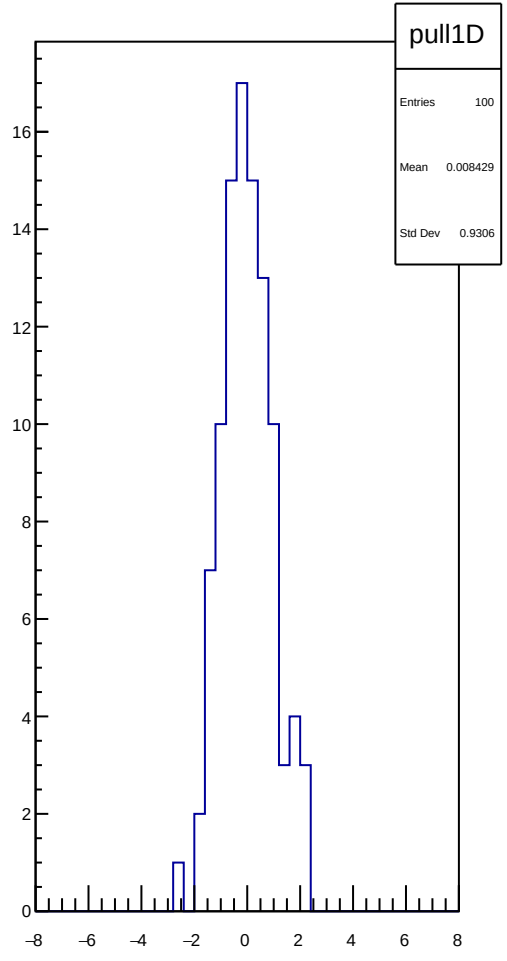

diff_bpm1p03aX_rms vs run
χ² / ndf 4.644e+05 / 99
p0 2776 ± 2.297
8000
7000
6000
5000
4000
3000
2000

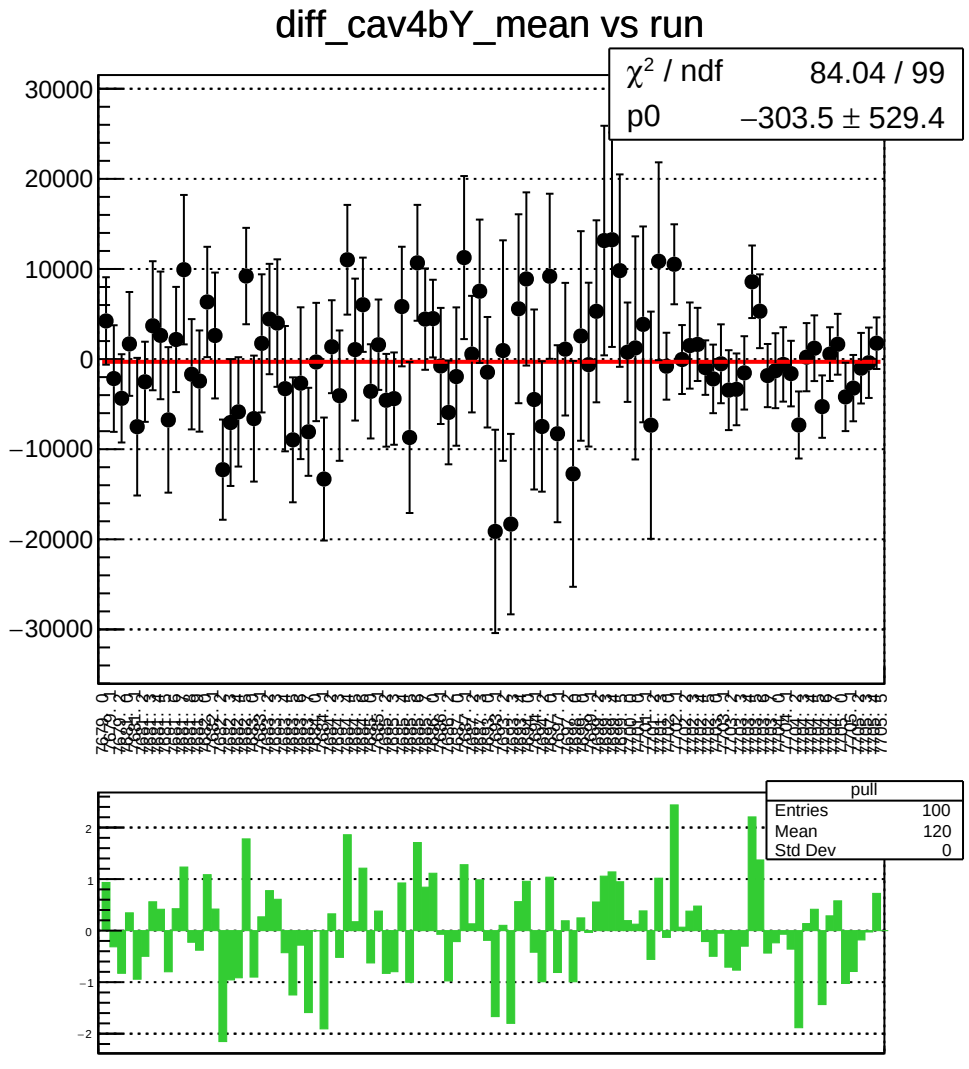

diff_bpm1p03aY_mean vs run
χ² / ndf 90.93 / 99
p0 −4.412 ± 2.99
pull
Entries 100
Mean 81.05
Std Dev 0

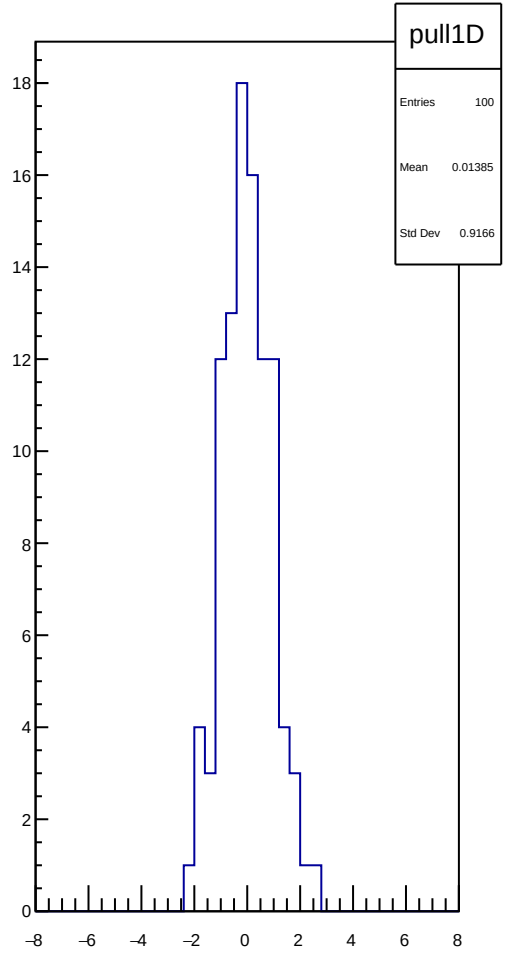

pull1D
Entries 100
Mean 0.006542
Std Dev 0.9536

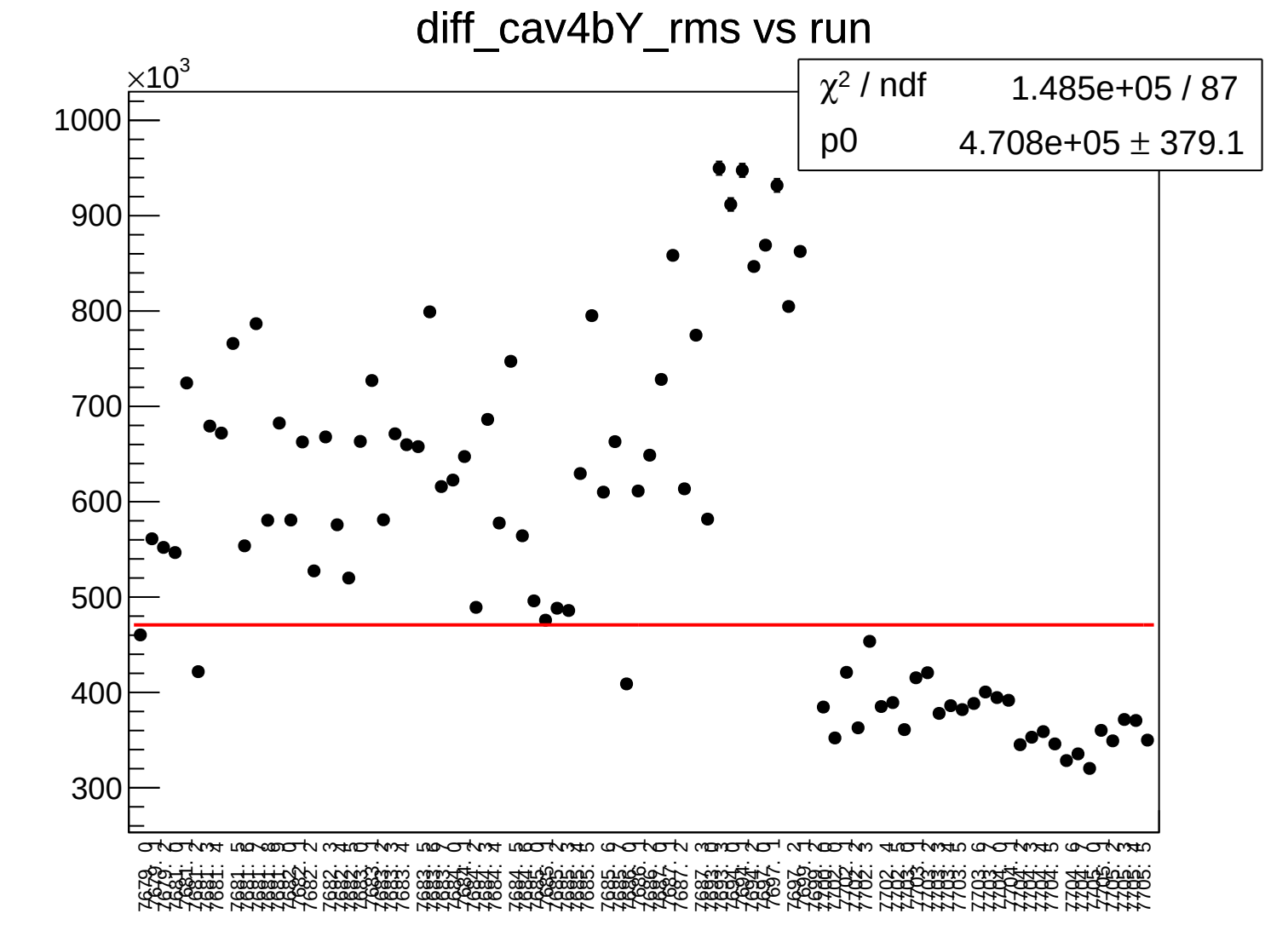

diff_bpm1p03aY_rms vs run
χ² / ndf 8.019e+05 / 99
p0 2241 ± 2.115
18000
16000
14000
12000
10000
8000
6000
4000
2000

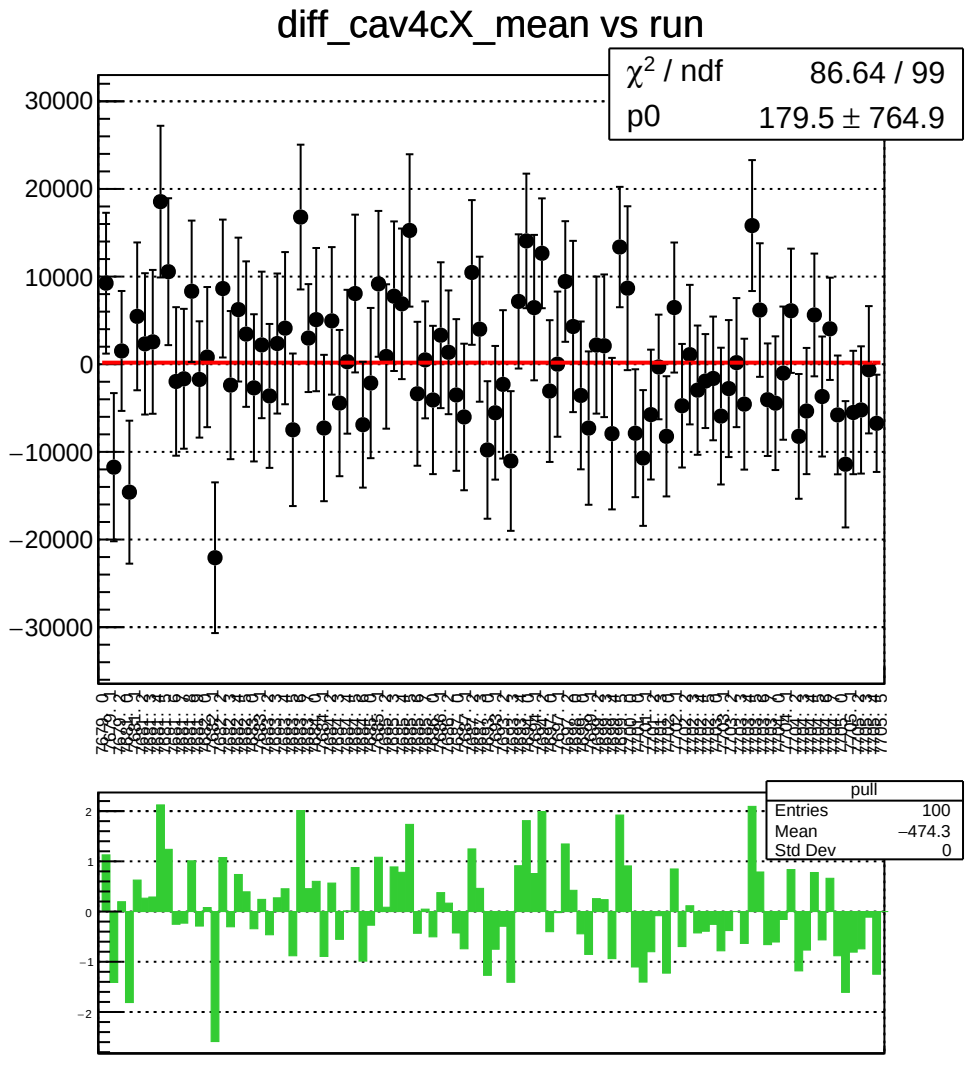

diff_cav4bX_mean vs run
χ² / ndf 86.6 / 99
p0 414.7 ± 1768
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −533.3
Std Dev 0
2
1
0
−1
−2

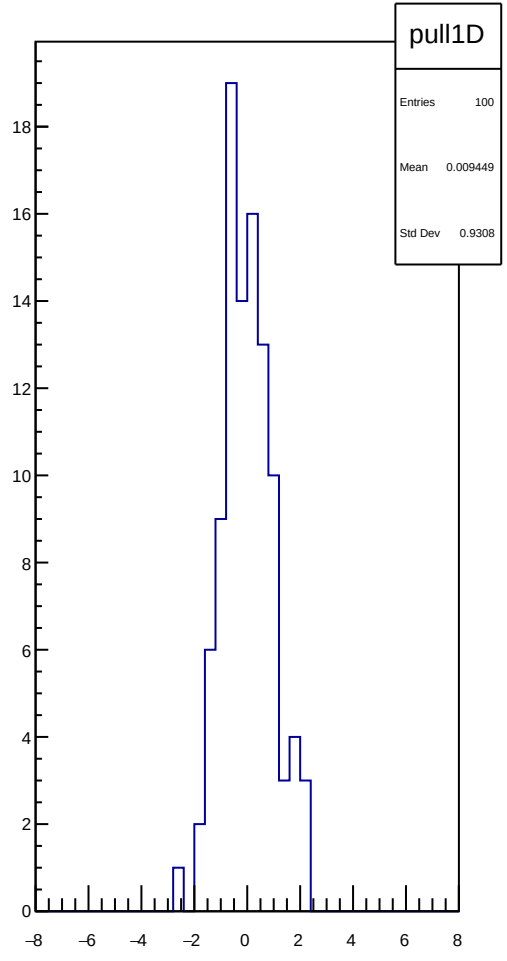

pull1D
Entries 100
Mean 0.008429
Std Dev 0.9306
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

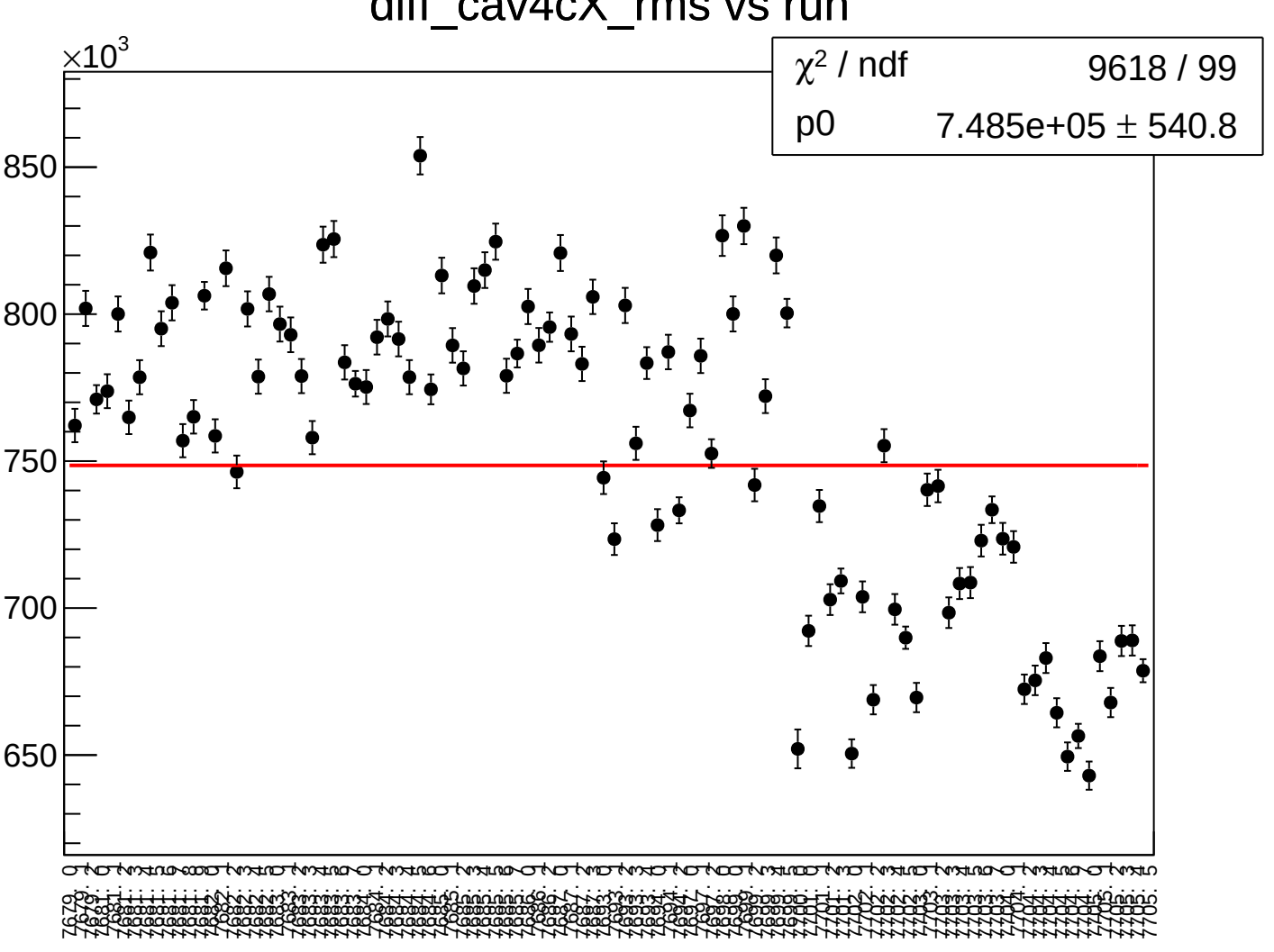

diff_cav4bY_mean vs run
χ² / ndf 84.04 / 99
p0 −303.5 ± 529.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 100
Mean 120
Std Dev 0
2
1
0
−1
−2

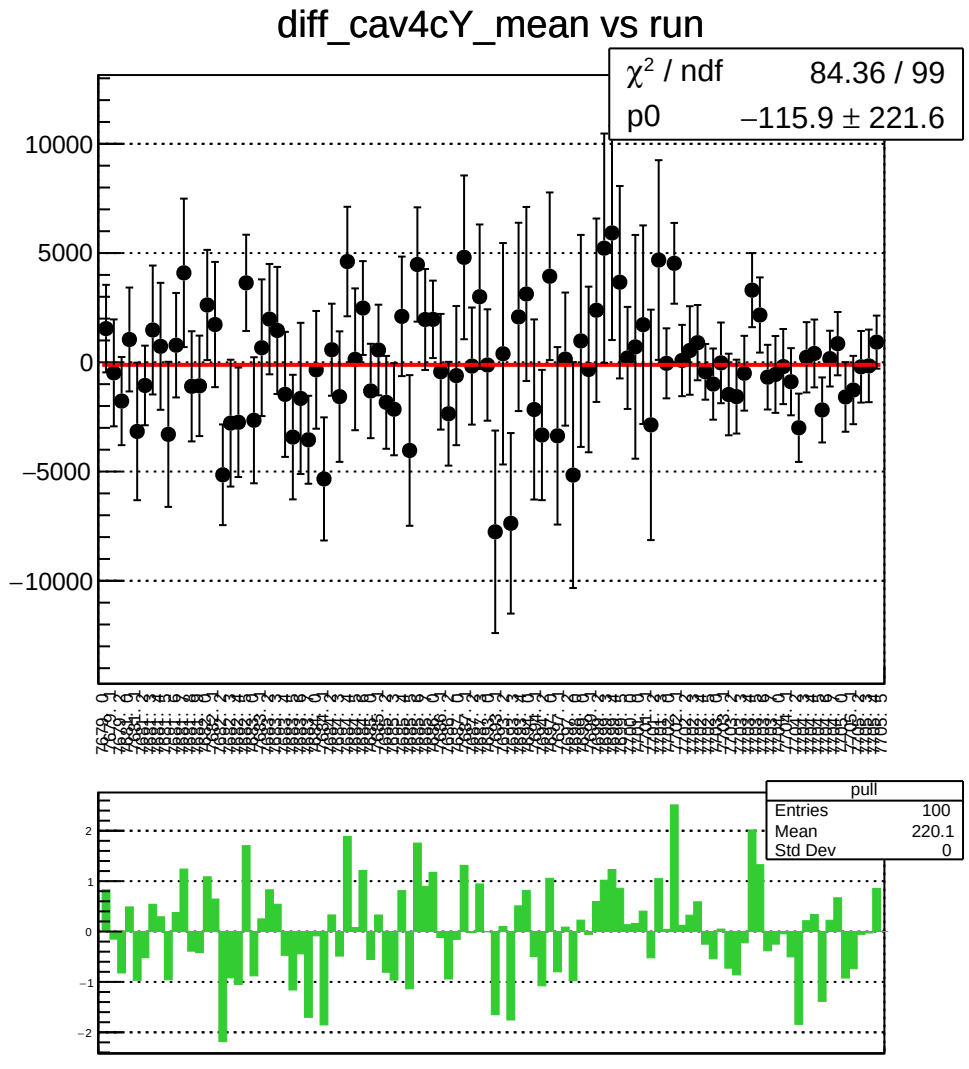

pull1D
Entries 100
Mean 0.01385
Std Dev 0.9166
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

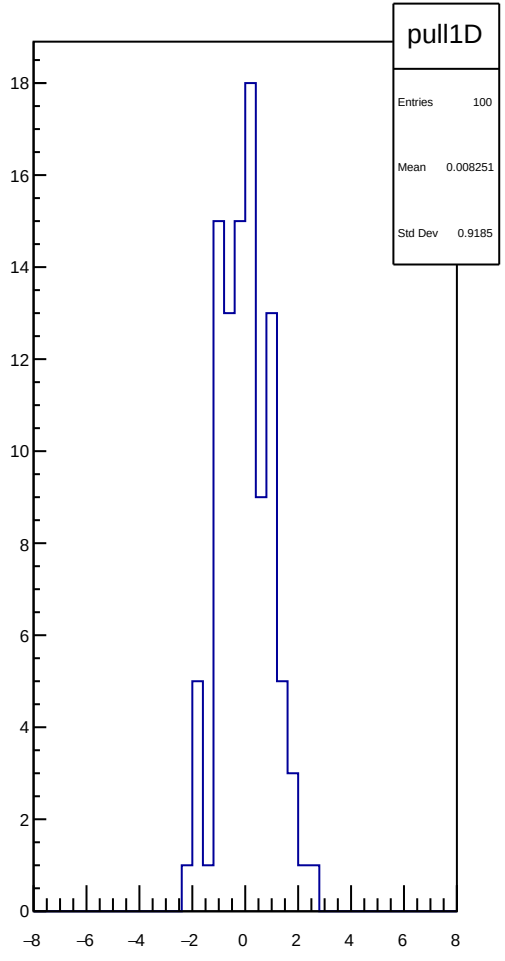

diff_cav4bY_rms vs run
×10^3
χ² / ndf 1.485e+05 / 87
p0 4.708e+05 ± 379.1
1000
900
800
700
600
500
400
300

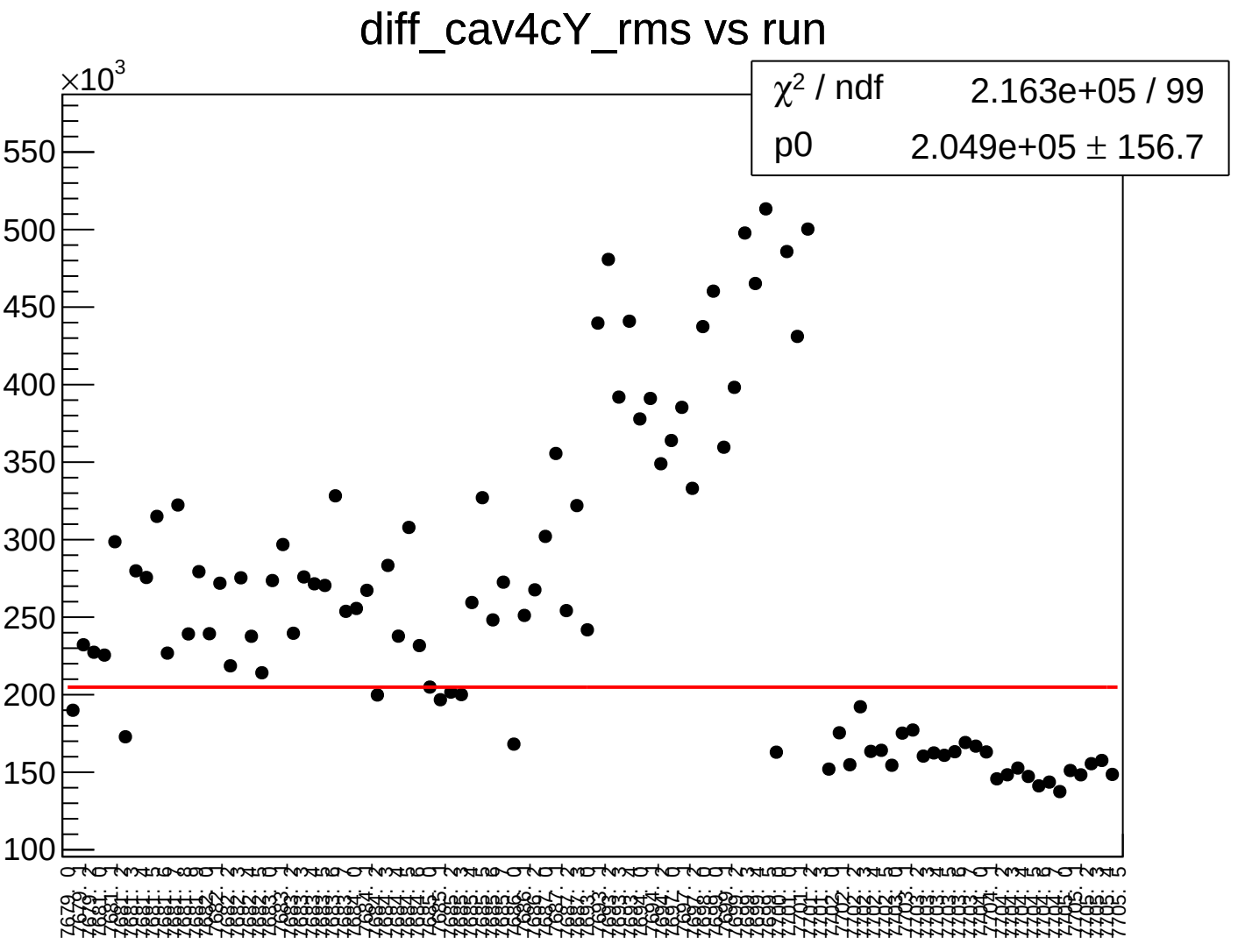

diff_cav4cX_mean vs run
χ² / ndf 86.64 / 99
p0 179.5 ± 764.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 100
Mean −474.3
Std Dev 0
2
1
0
−1
−2

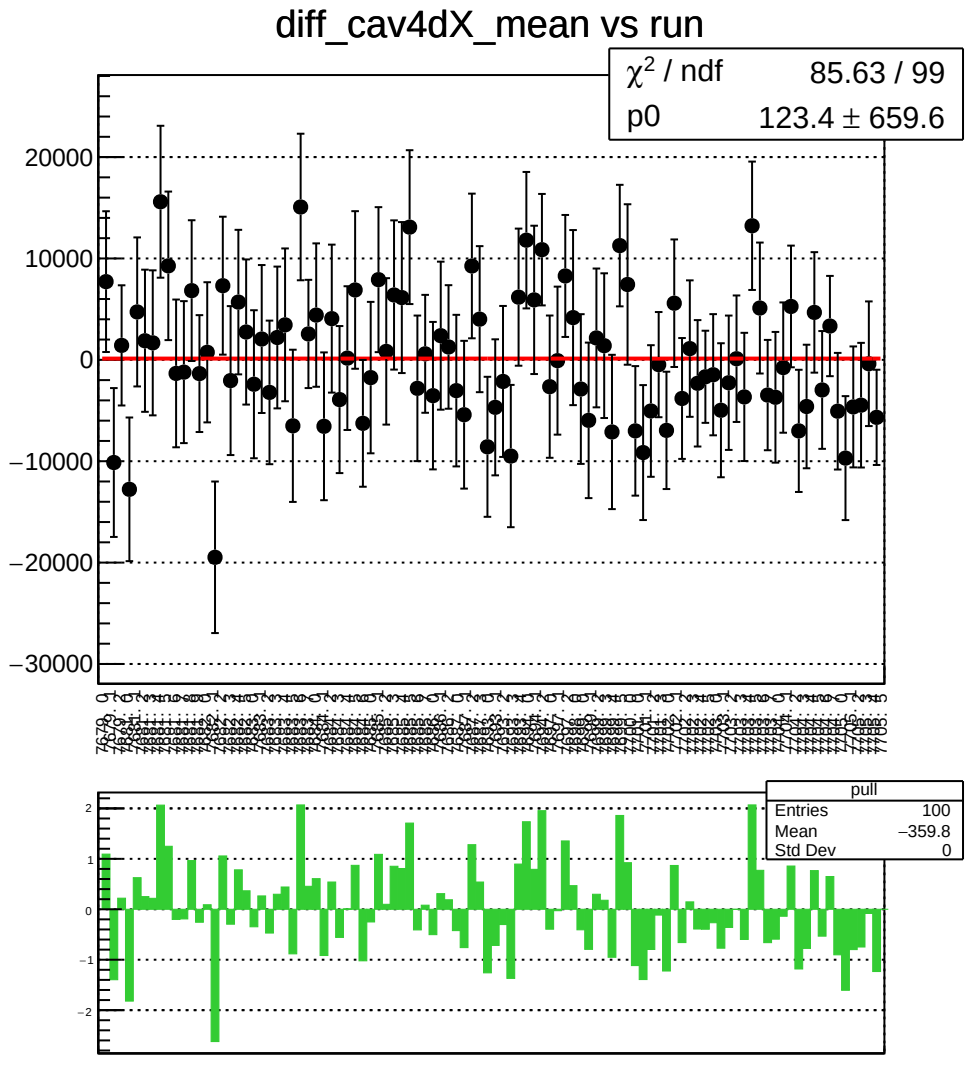

pull1D
Entries 100
Mean 0.009449
Std Dev 0.9308
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

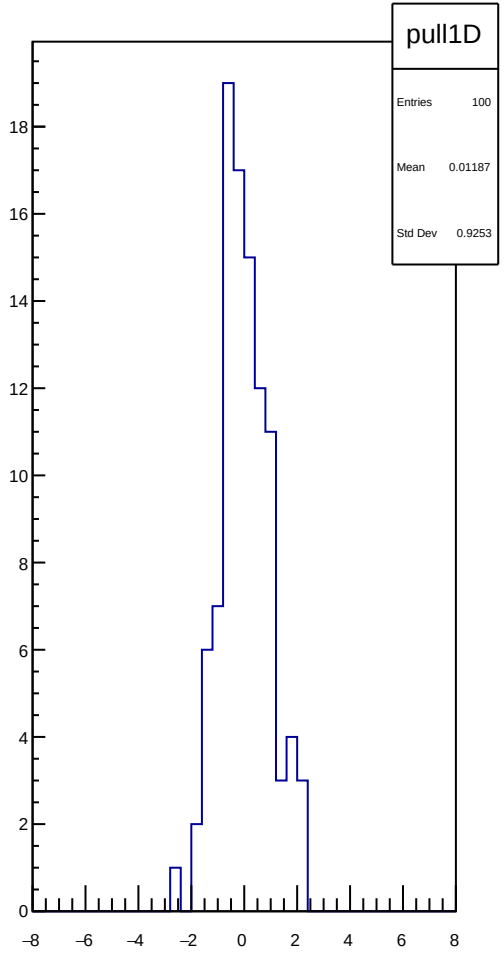

diff_cav4cX_rms vs run
×10^3
850
800
750
700
650
χ² / ndf 9618 / 99
p0 7.485e+05 ± 540.8

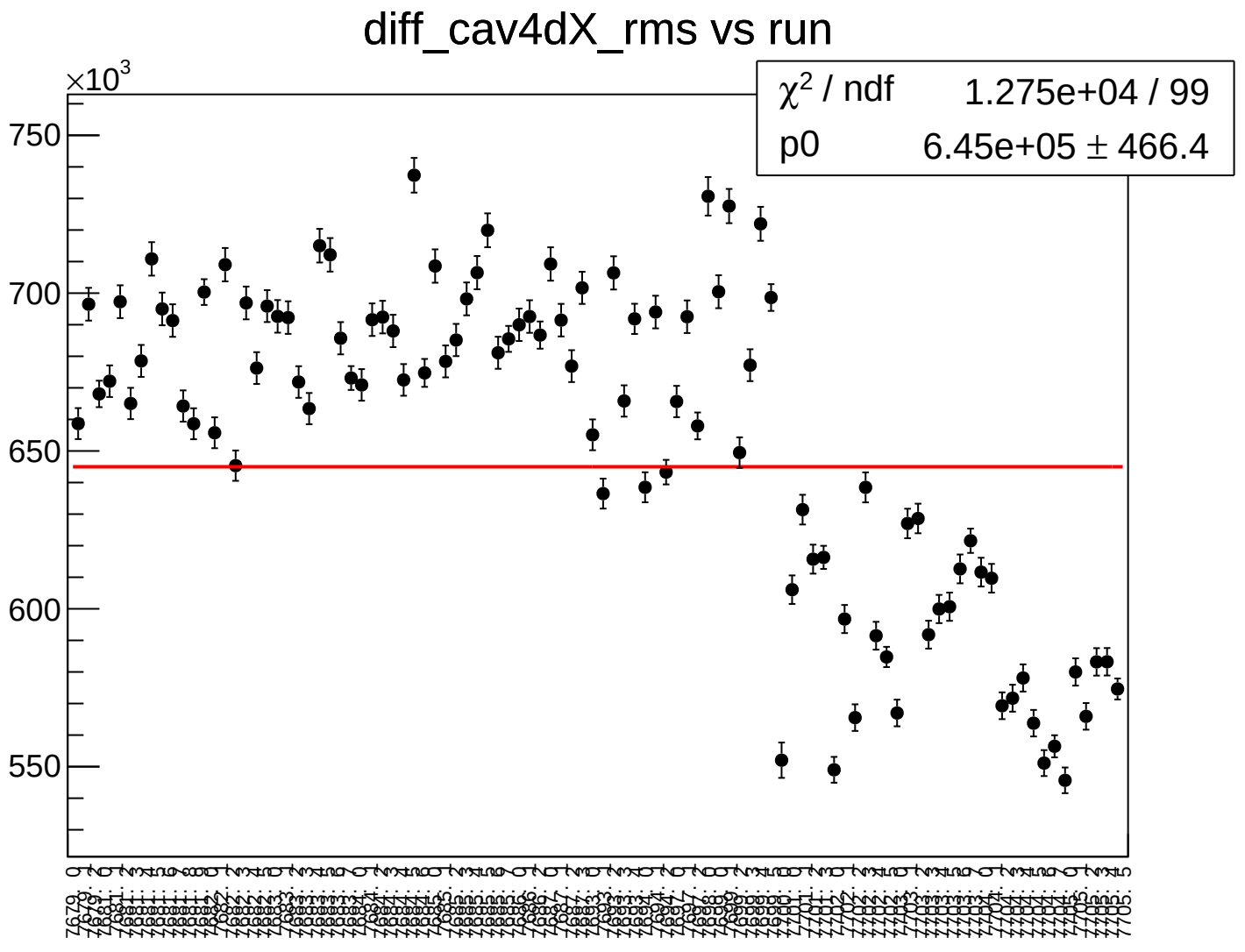

diff_cav4cY_mean vs run
χ² / ndf 84.36 / 99
p0 −115.9 ± 221.6
10000
5000
0
−5000
−10000
pull
Entries 100
Mean 220.1
Std Dev 0
2
1
0
−1
−2

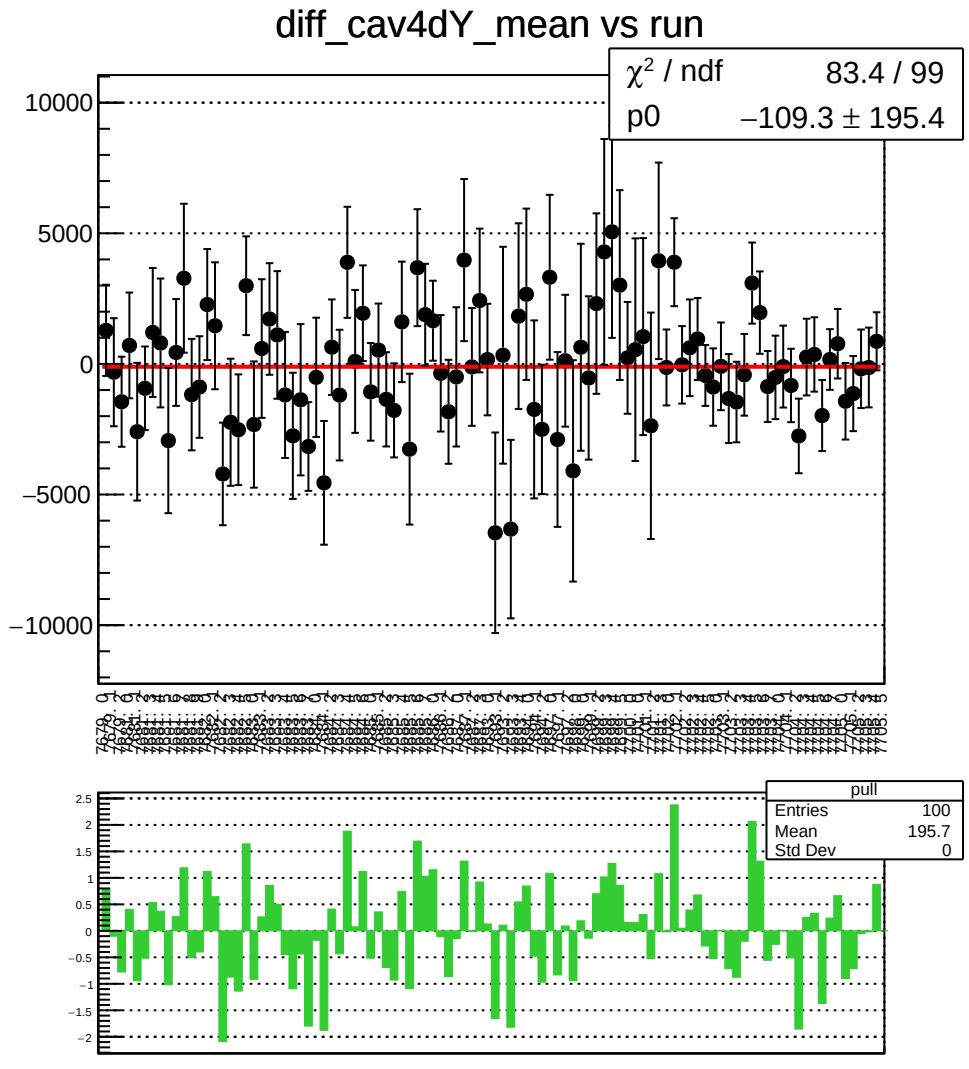

pull1D
Entries 100
Mean 0.008251
Std Dev 0.9185
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

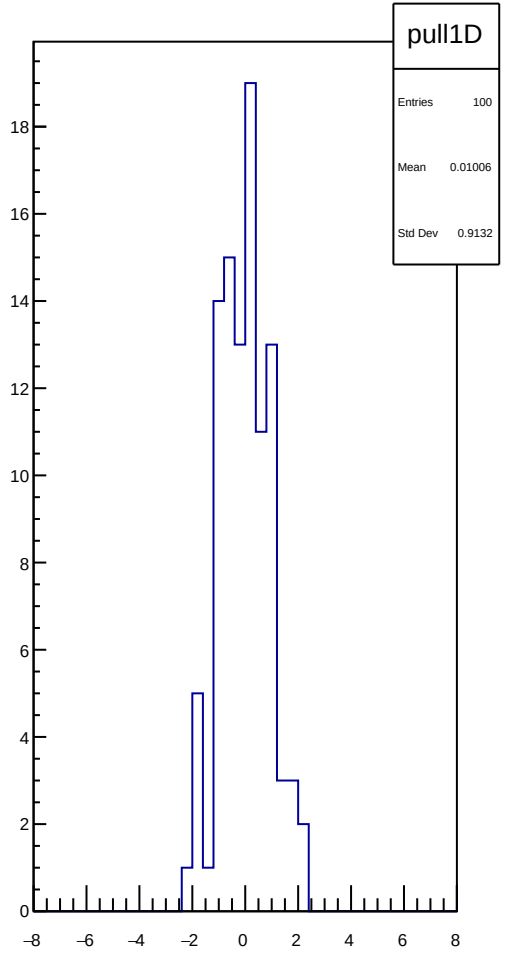

diff_cav4cY_rms vs run
×10^3
χ² / ndf 2.163e+05 / 99
p0 2.049e+05 ± 156.7
550
500
450
400
350
300
250
200
150
100

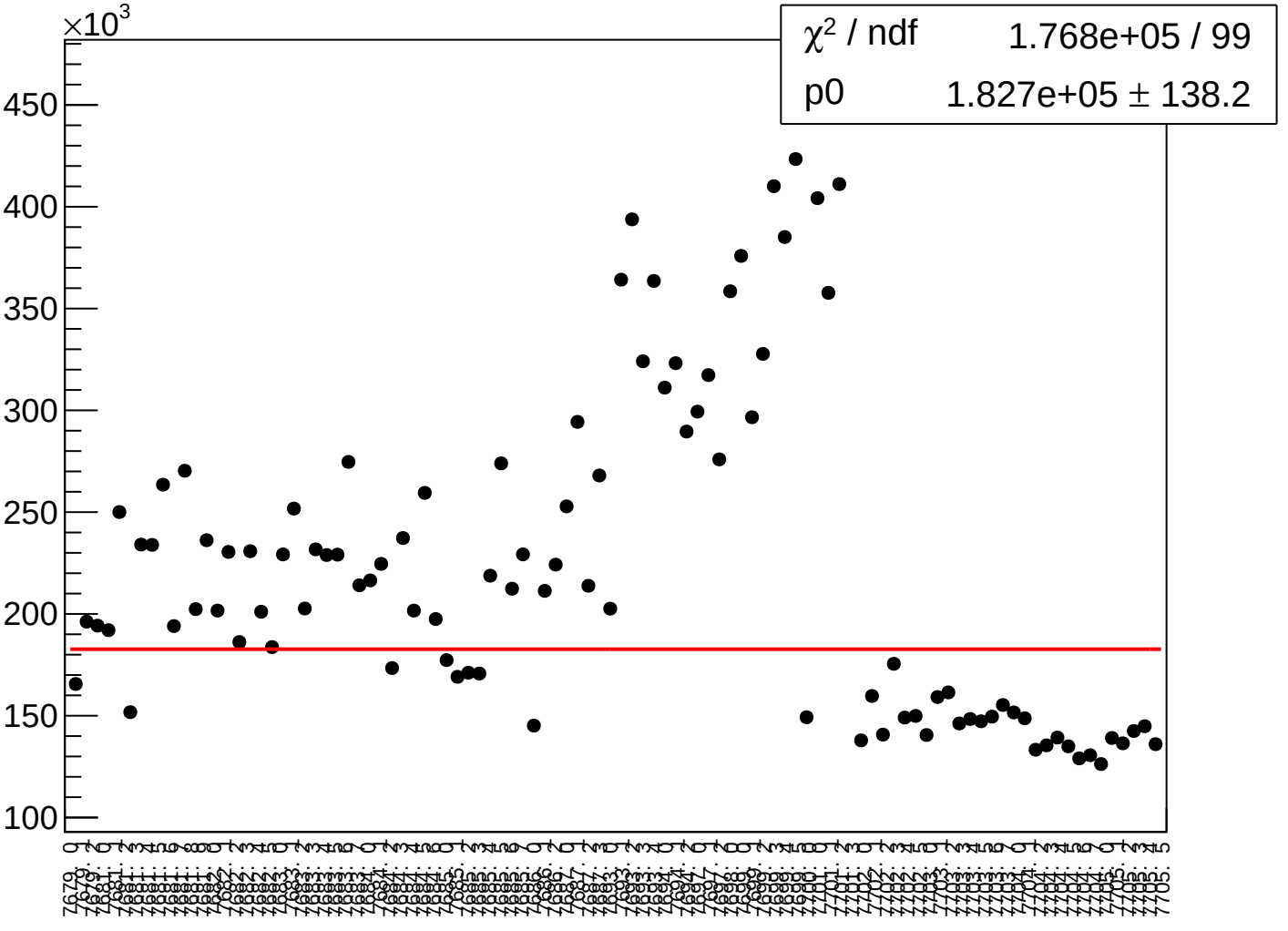

diff_cav4dX_mean vs run
χ² / ndf 85.63 / 99
p0 123.4 ± 659.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 100
Mean −359.8
Std Dev 0
2
1
0
−1
−2

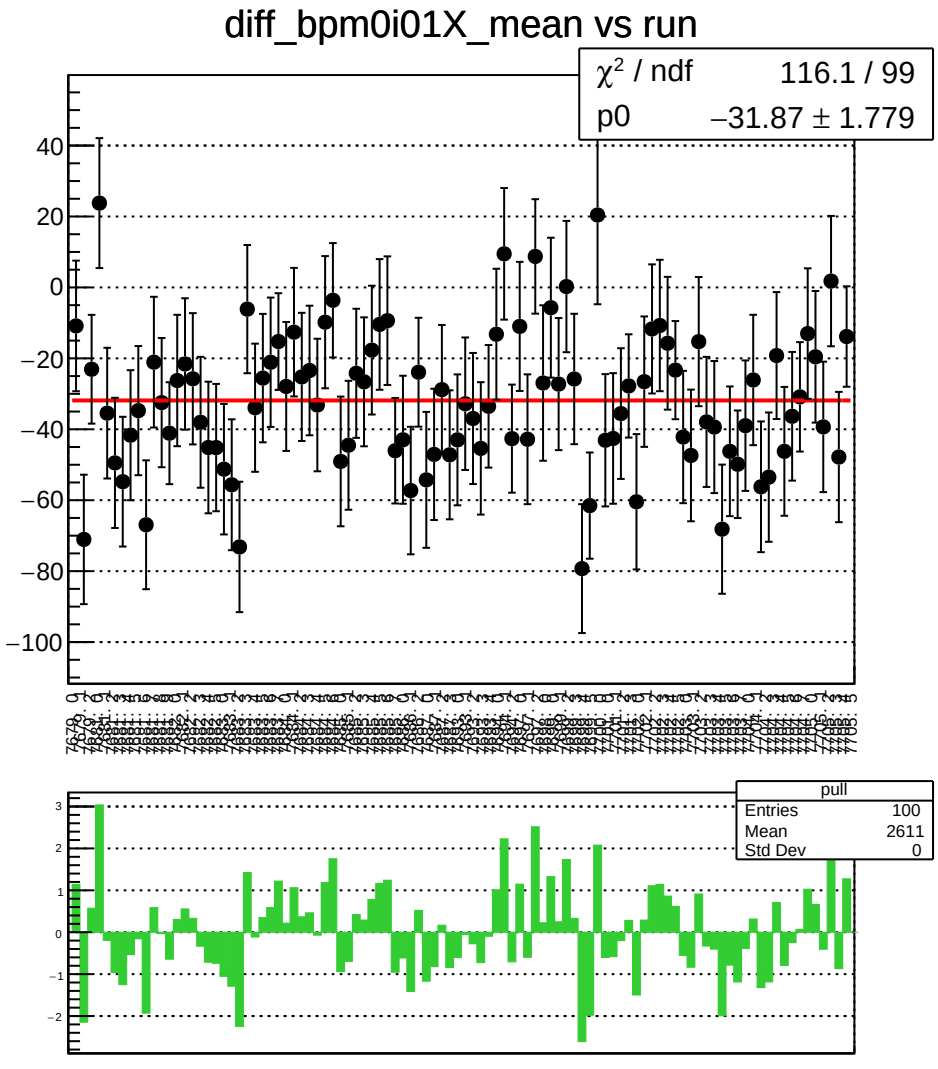

pull1D
Entries 100
Mean 0.01187
Std Dev 0.9253
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

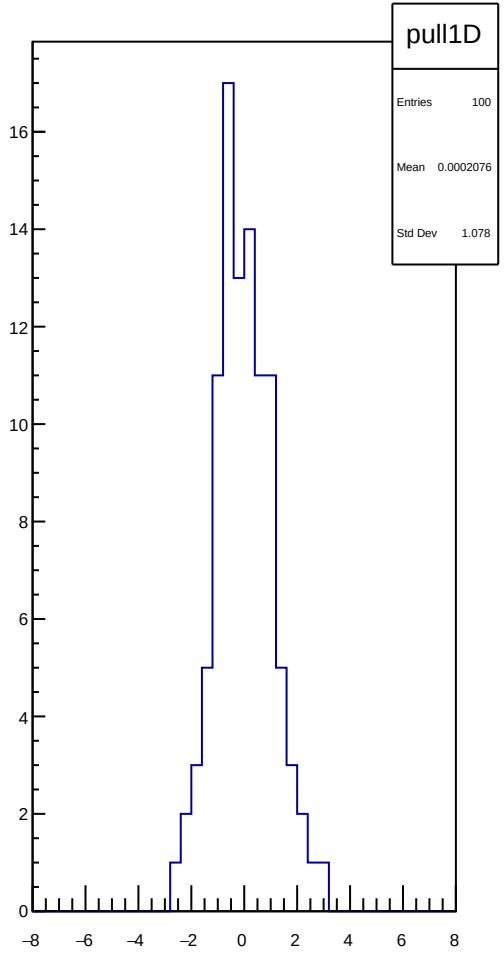

diff_cav4dX_rms vs run
×10^3
750
700
650
600
550
χ² / ndf 1.275e+04 / 99
p0 6.45e+05 ± 466.4

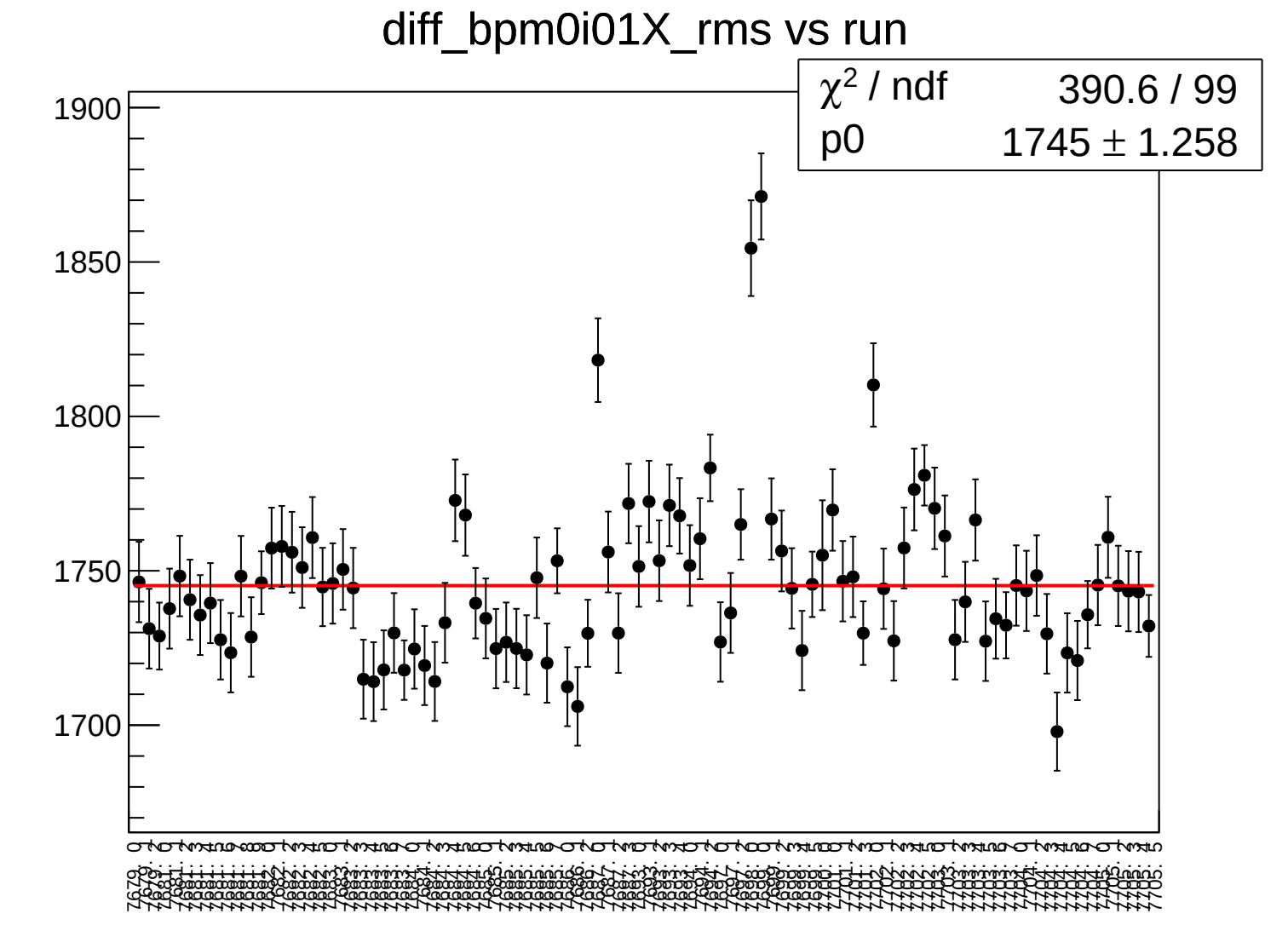

diff_cav4dY_mean vs run
χ² / ndf 83.4 / 99
p0 −109.3 ± 195.4
10000
5000
0
−5000
−10000
pull
Entries 100
Mean 195.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

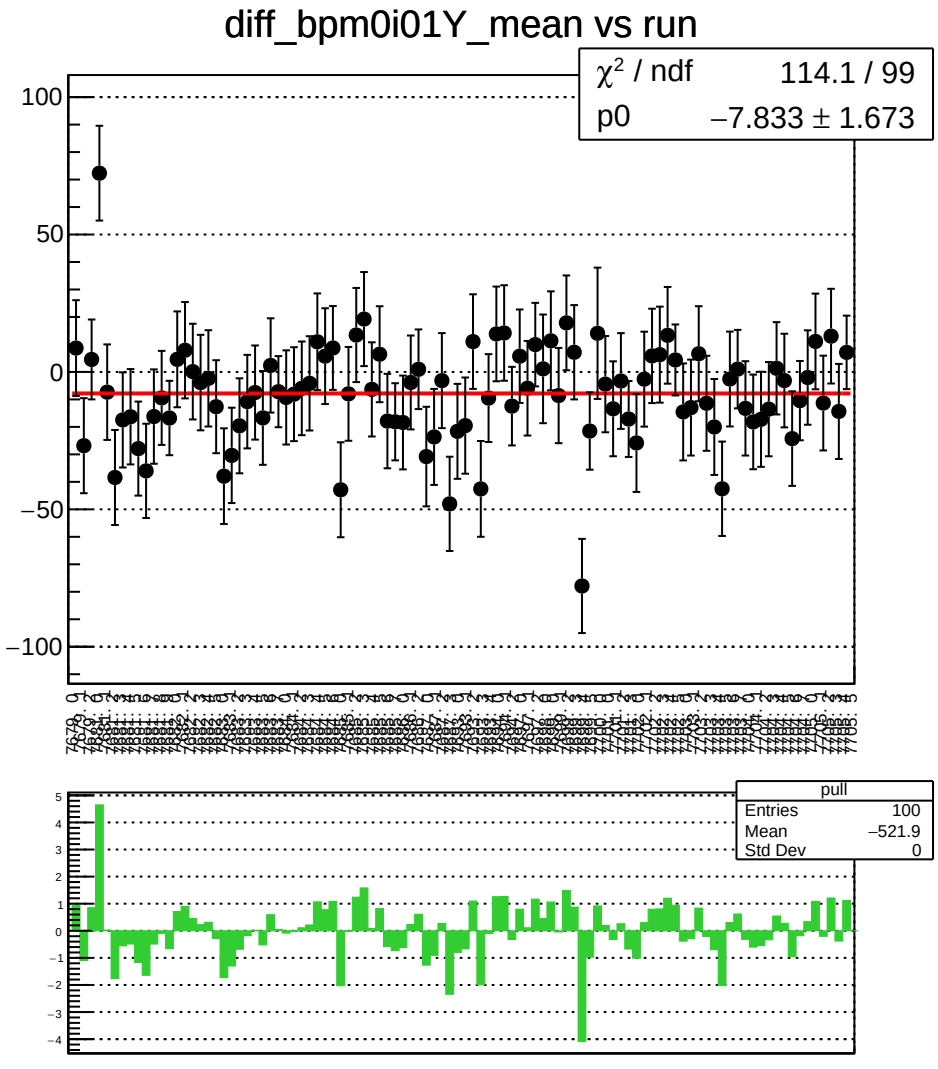

pull1D
Entries 100
Mean 0.01006
Std Dev 0.9132
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

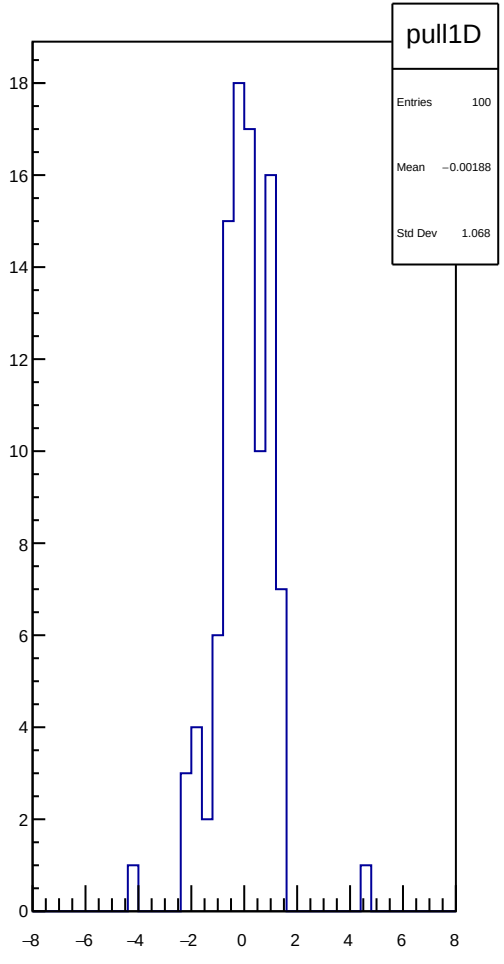

diff_cav4dY_rms vs run
×10^3
χ² / ndf 1.768e+05 / 99
p0 1.827e+05 ± 138.2
450
400
350
300
250
200
150
100

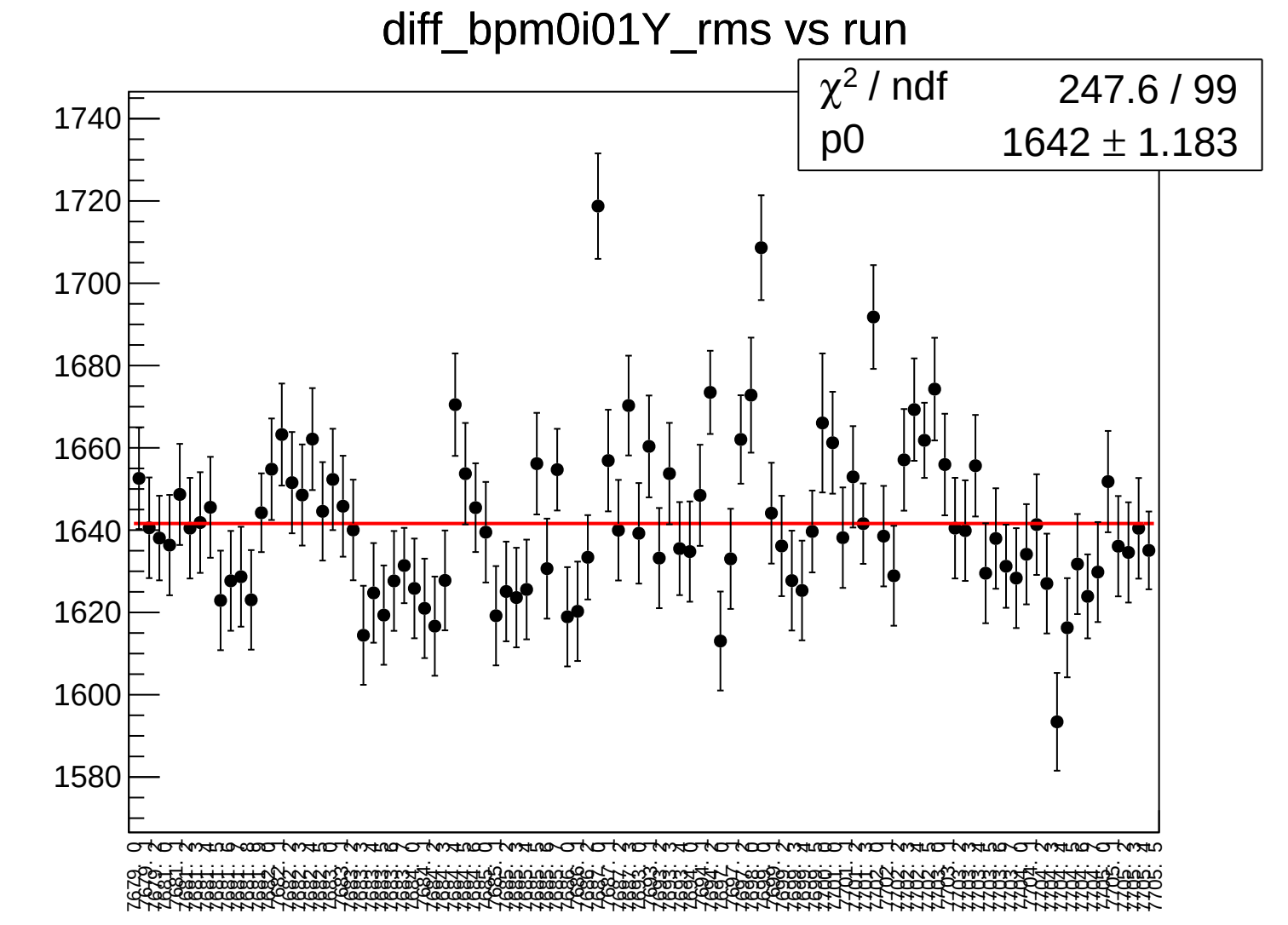

diff_bpm0i01X_mean vs run
χ² / ndf 116.1 / 99
p0 −31.87 ± 1.779
pull
Entries 100
Mean 2611
Std Dev 0

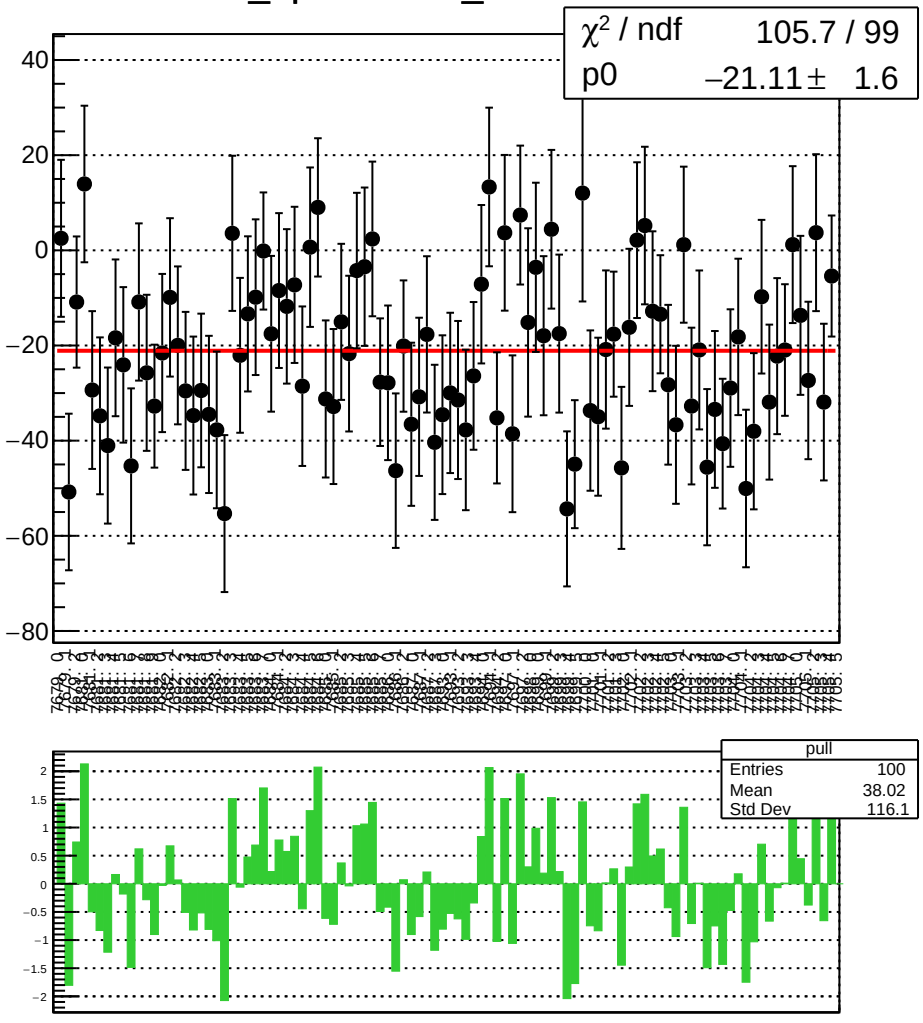

pull1D
Entries 100
Mean 0.0002076
Std Dev 1.078

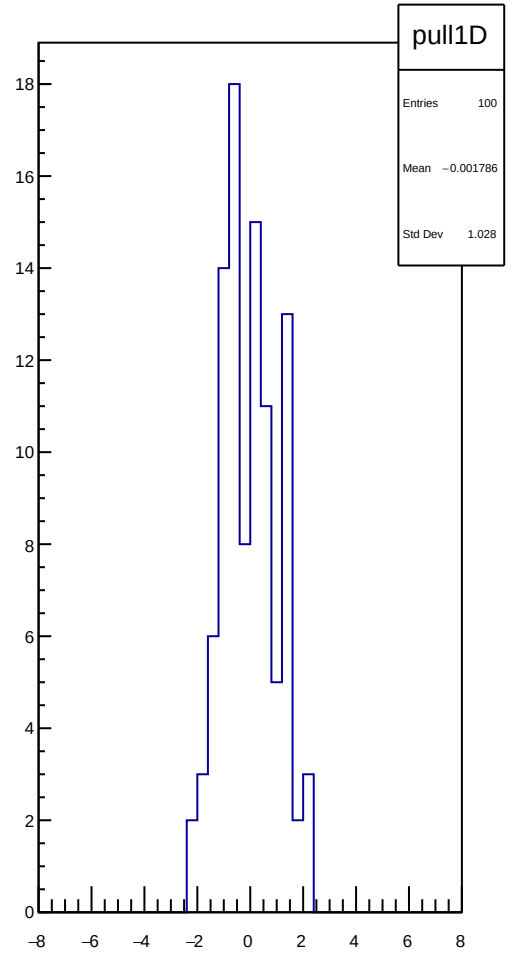

diff_bpm0i01X_rms vs run
χ² / ndf 390.6 / 99
p0 1745 ± 1.258
1900
1850
1800
1750
1700

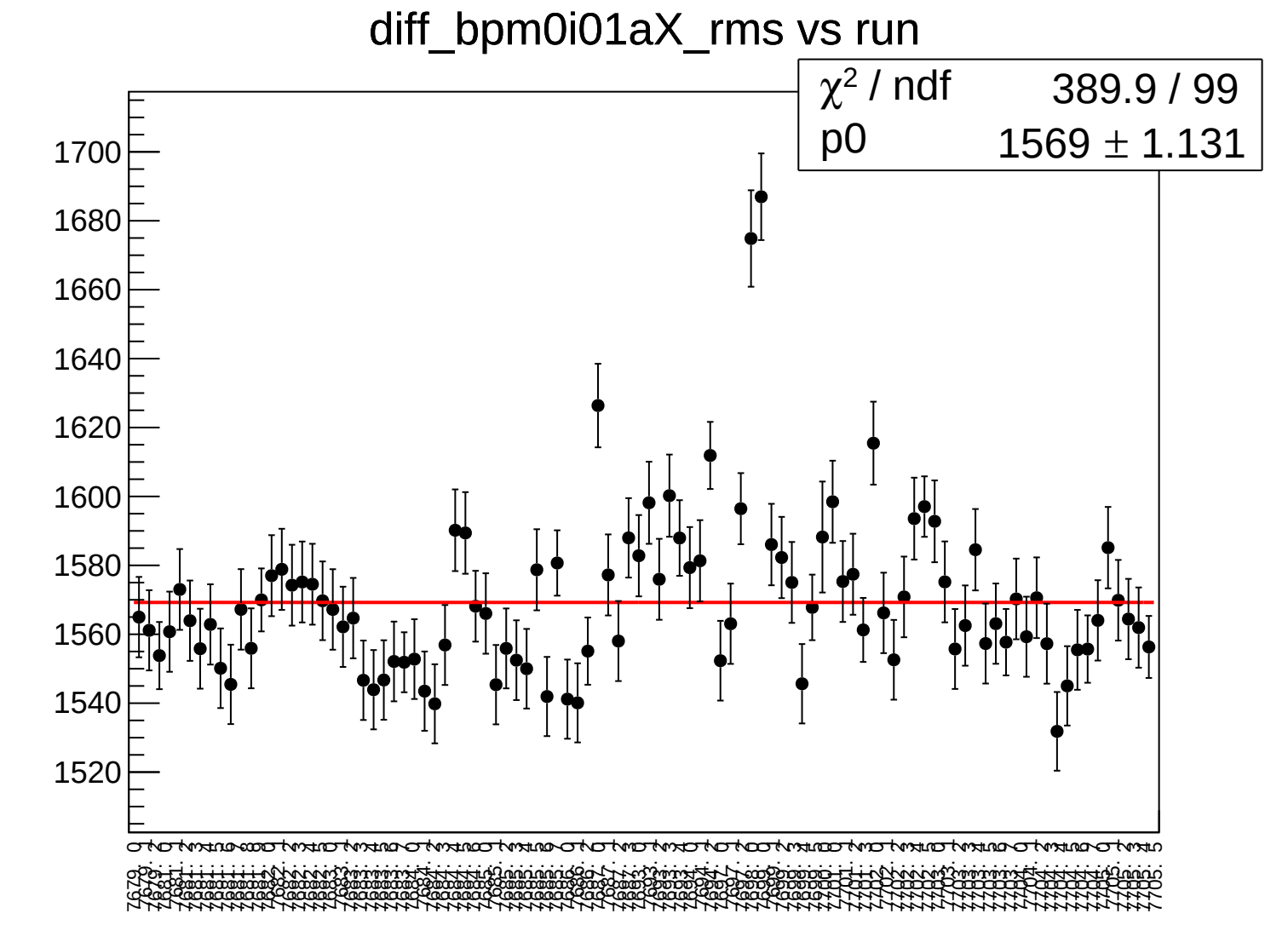

diff_bpm0i01Y_mean vs run
χ² / ndf 114.1 / 99
p0 −7.833 ± 1.673
100
50
0
−50
−100
pull
Entries 100
Mean −521.9
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
−4

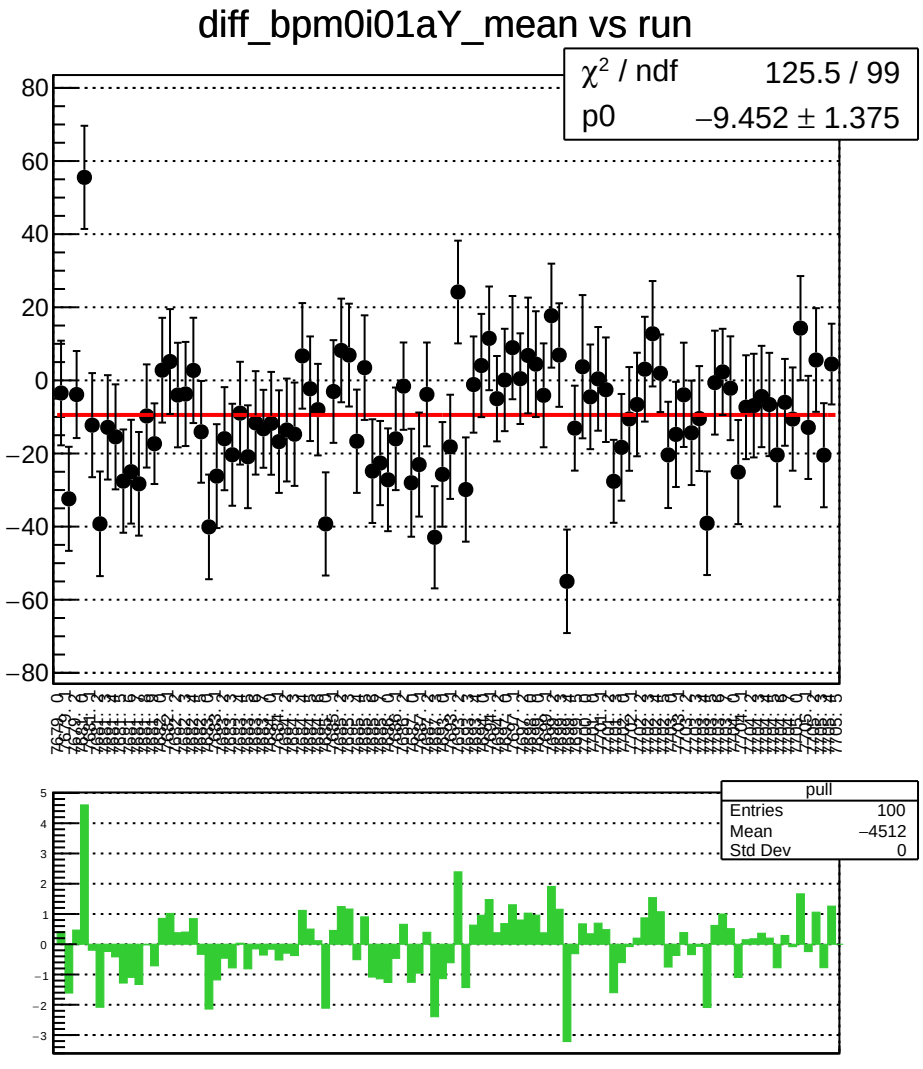

pull1D
Entries 100
Mean −0.00188
Std Dev 1.068
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

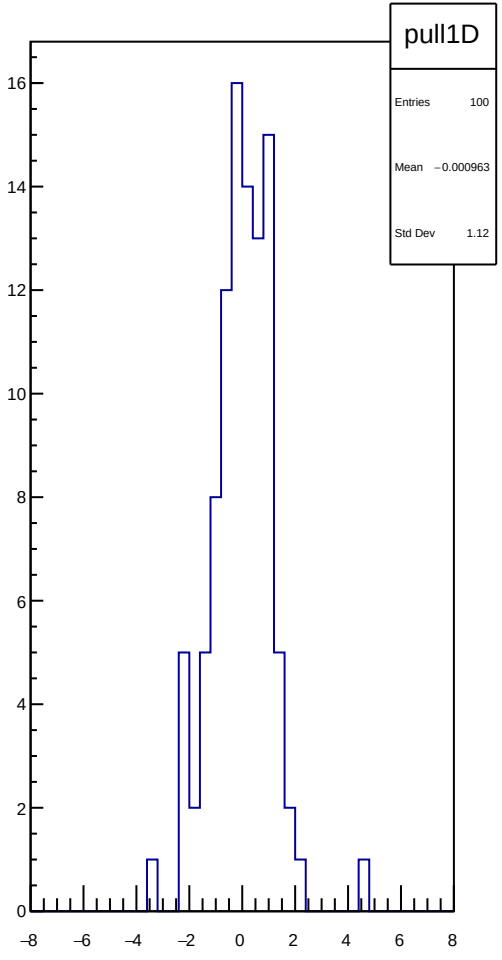

diff_bpm0i01Y_rms vs run
χ² / ndf 247.6 / 99
p0 1642 ± 1.183
1740
1720
1700
1680
1660
1640
1620
1600
1580

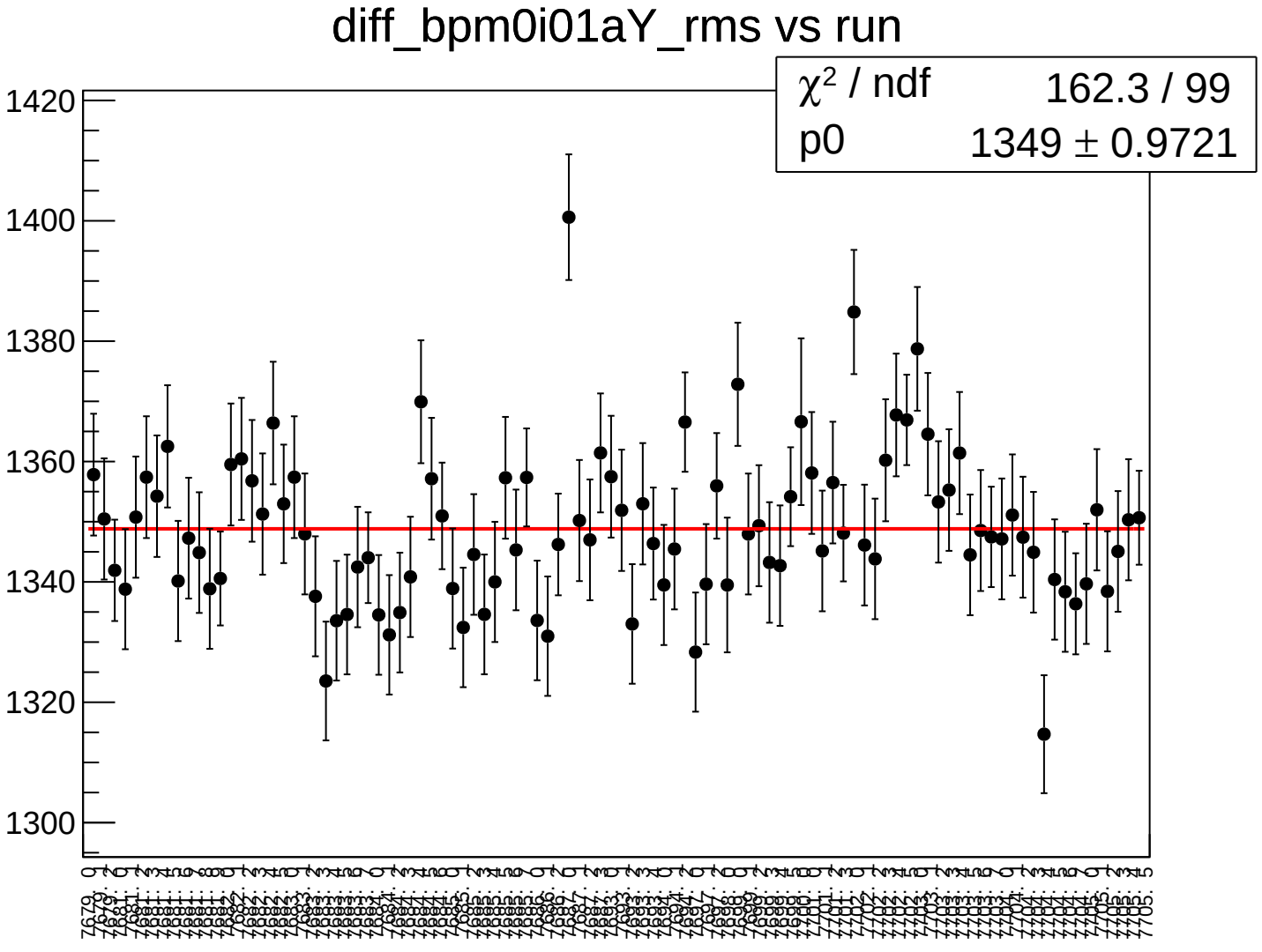

diff_bpm0i01aX_mean vs run
χ² / ndf 105.7 / 99
p0 −21.11 ± 1.6
pull
Entries 100
Mean 38.02
Std Dev 116.1

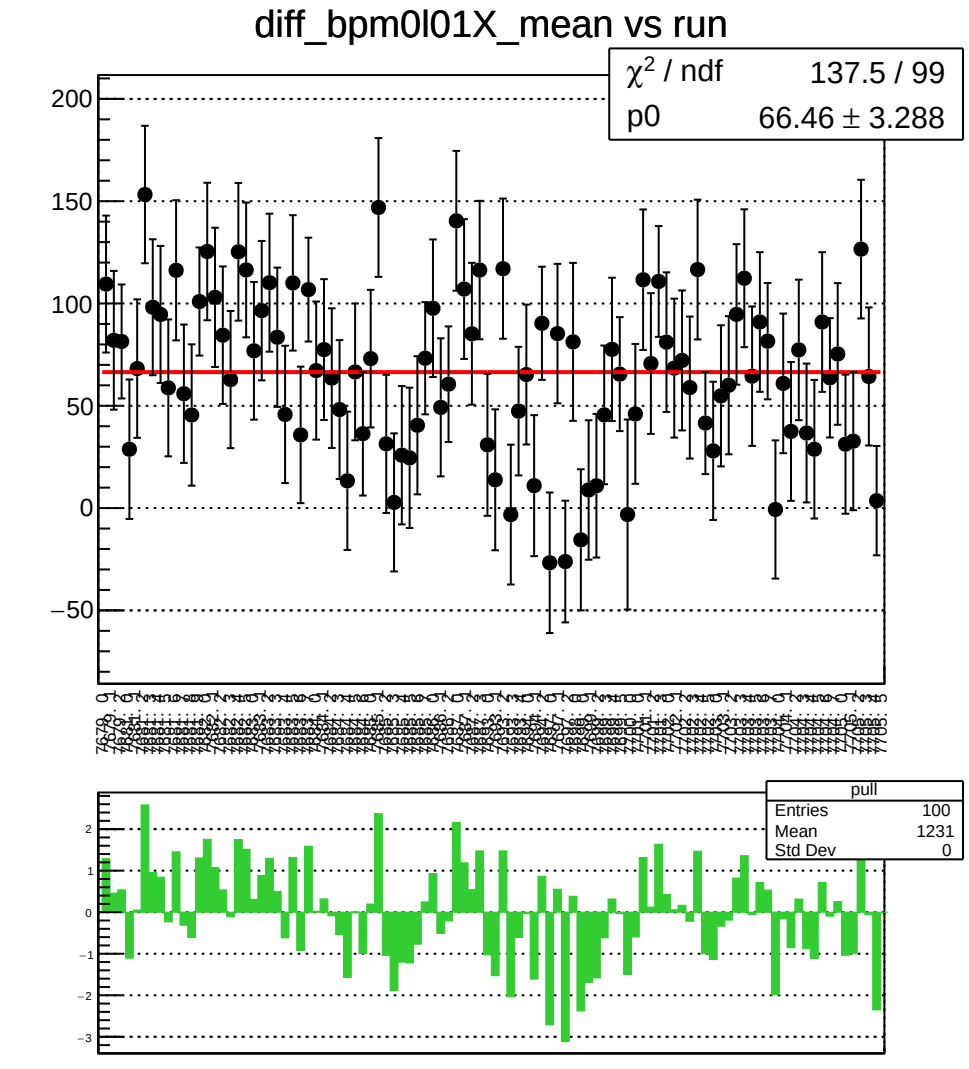

pull1D
Entries 100
Mean −0.001786
Std Dev 1.028

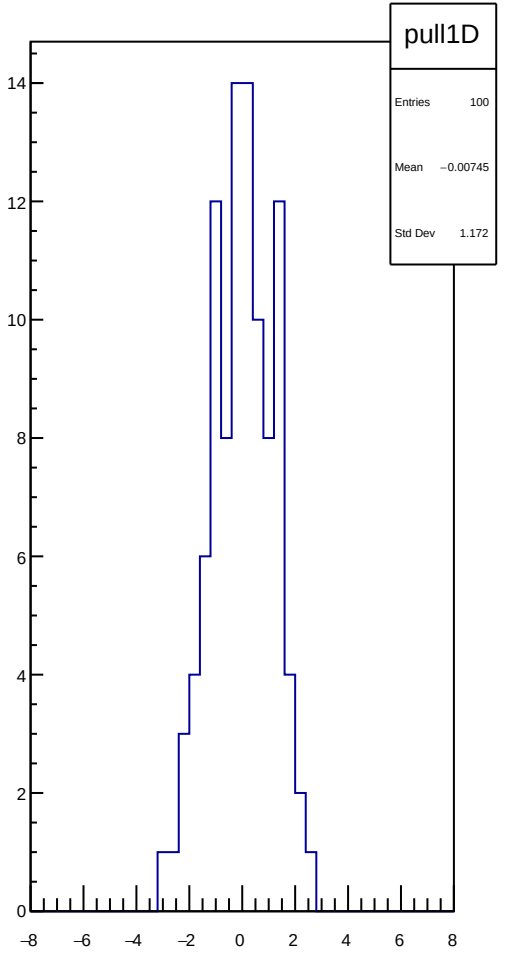

diff_bpm0i01aX_rms vs run
χ² / ndf 389.9 / 99
p0 1569 ± 1.131
1700
1680
1660
1640
1620
1600
1580
1560
1540
1520

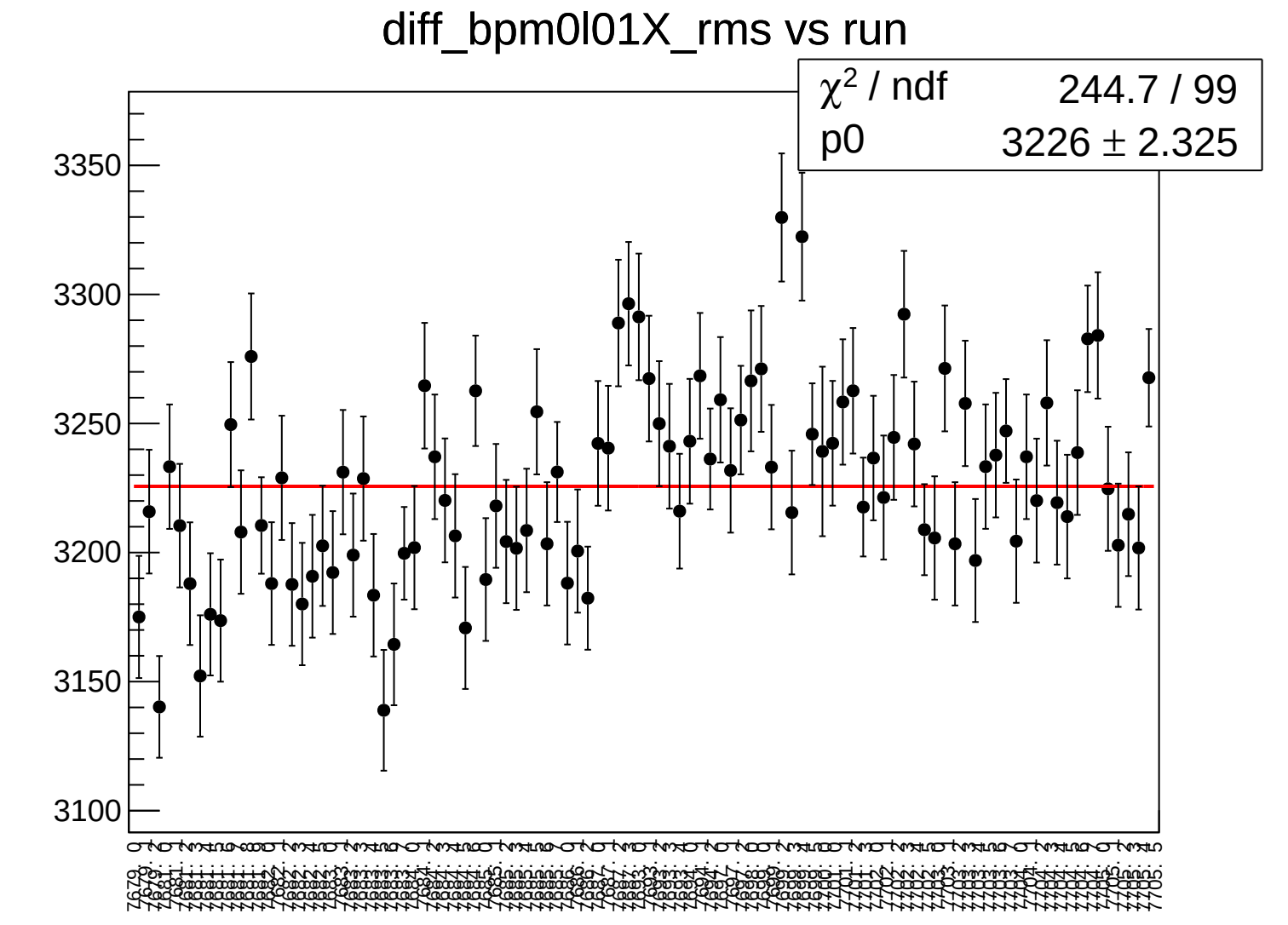

diff_bpm0i01aY_mean vs run
χ² / ndf 125.5 / 99
p0 −9.452 ± 1.375
pull
Entries 100
Mean −4512
Std Dev 0

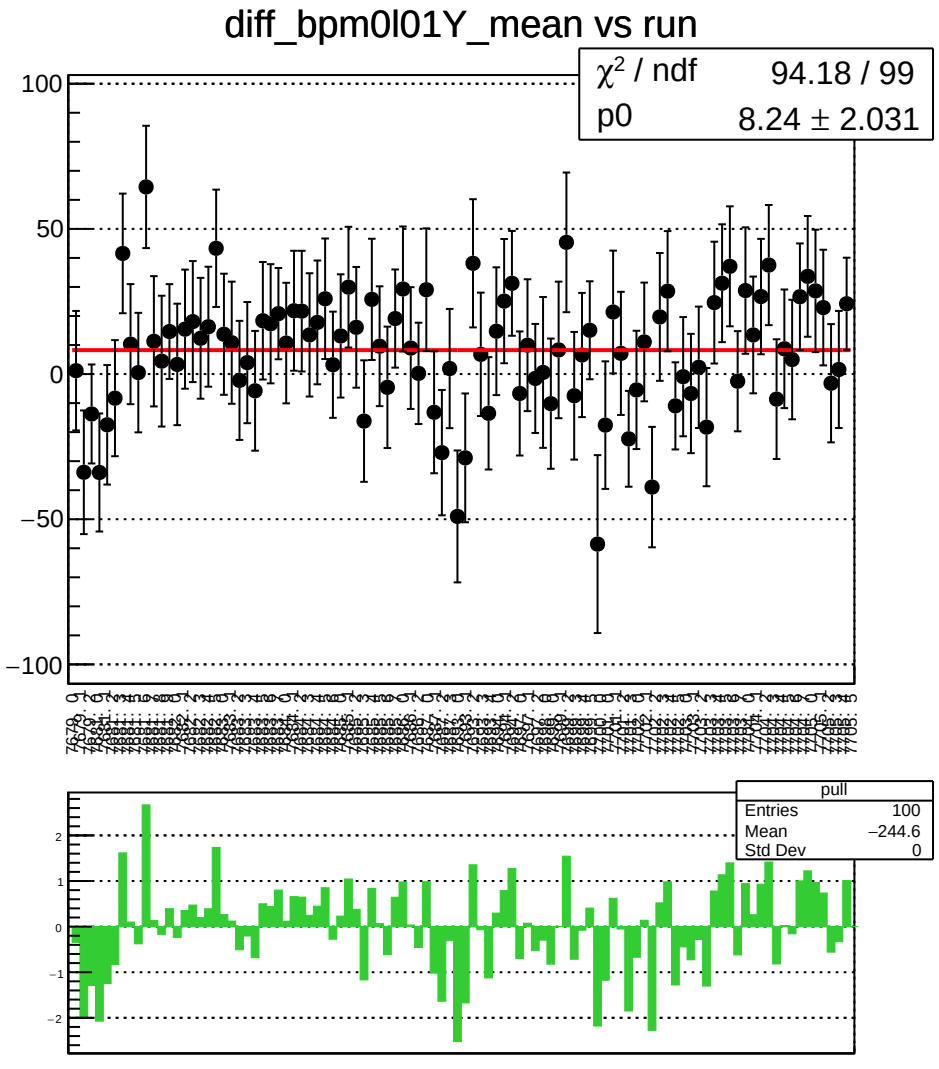

pull1D
Entries 100
Mean −0.000963
Std Dev 1.12

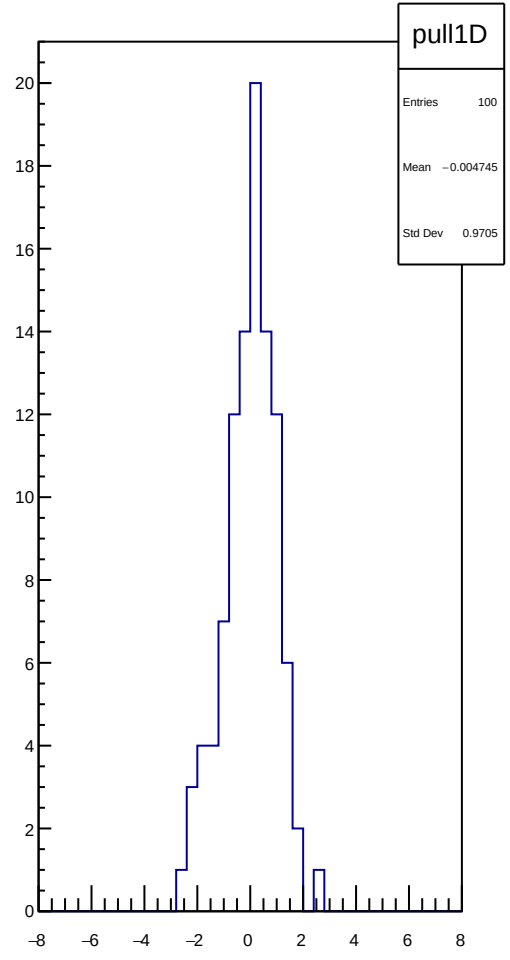

diff_bpm0i01aY_rms vs run
χ² / ndf 162.3 / 99
p0 1349 ± 0.9721
1420
1400
1380
1360
1340
1320
1300

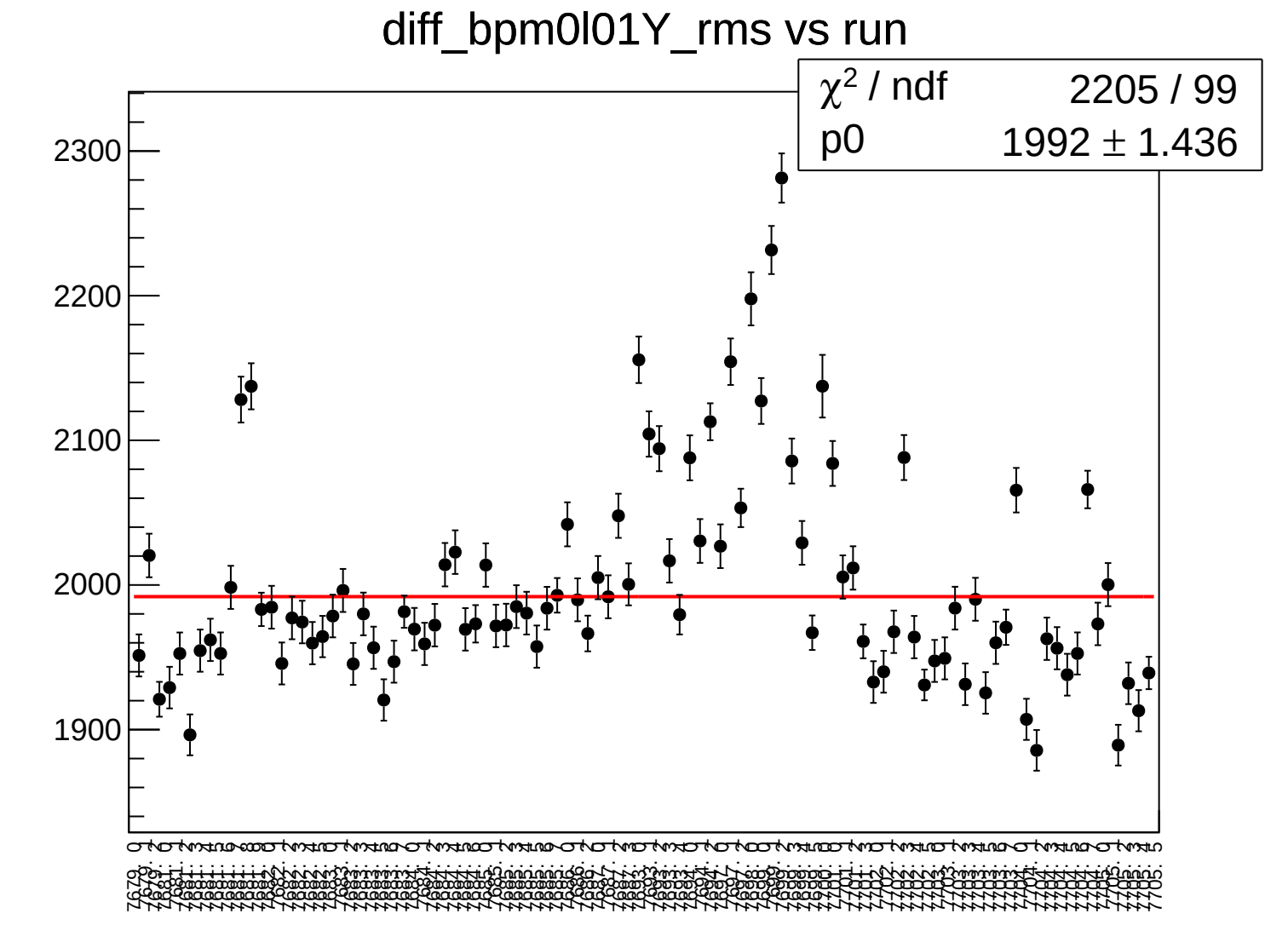

diff_bpm0l01X_mean vs run
χ² / ndf 137.5 / 99
p0 66.46 ± 3.288
pull
Entries 100
Mean 1231
Std Dev 0

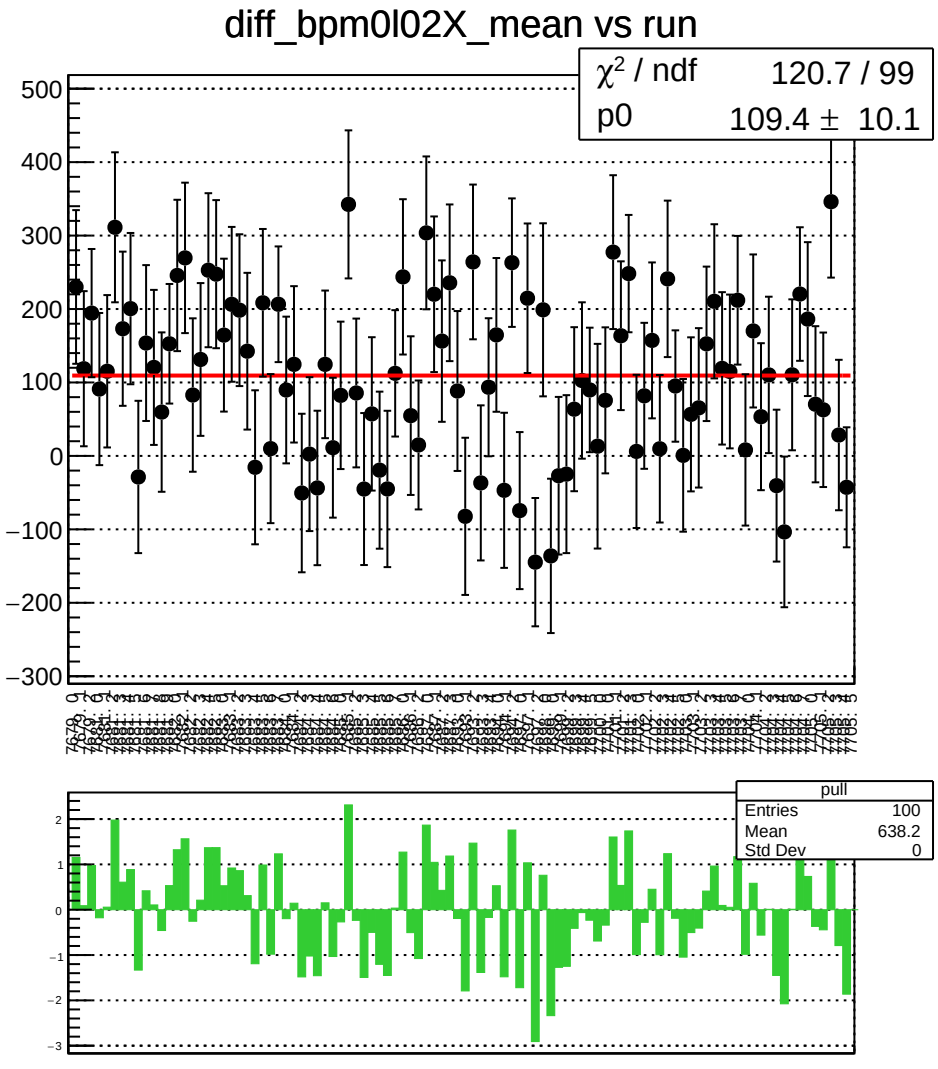

pull1D
Entries 100
Mean −0.00745
Std Dev 1.172

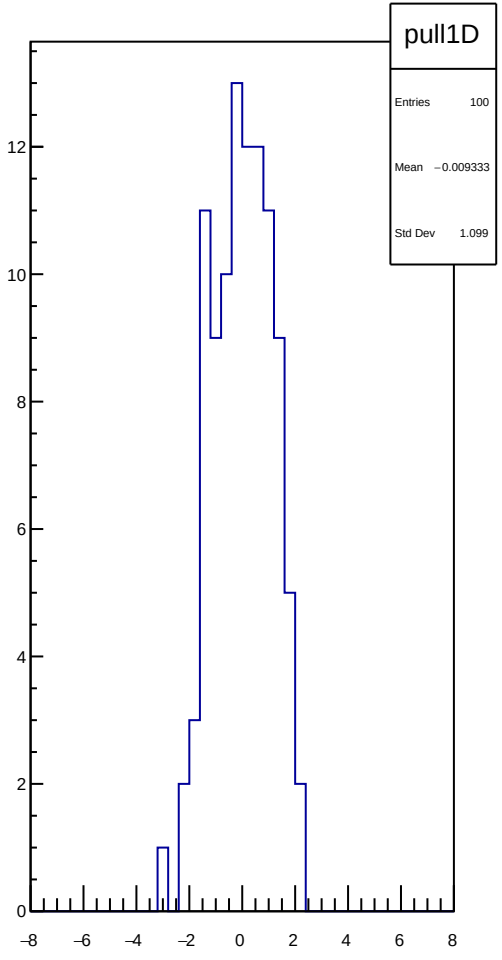

diff_bpm0l01X_rms vs run
χ² / ndf 244.7 / 99
p0 3226 ± 2.325
3350
3300
3250
3200
3150
3100

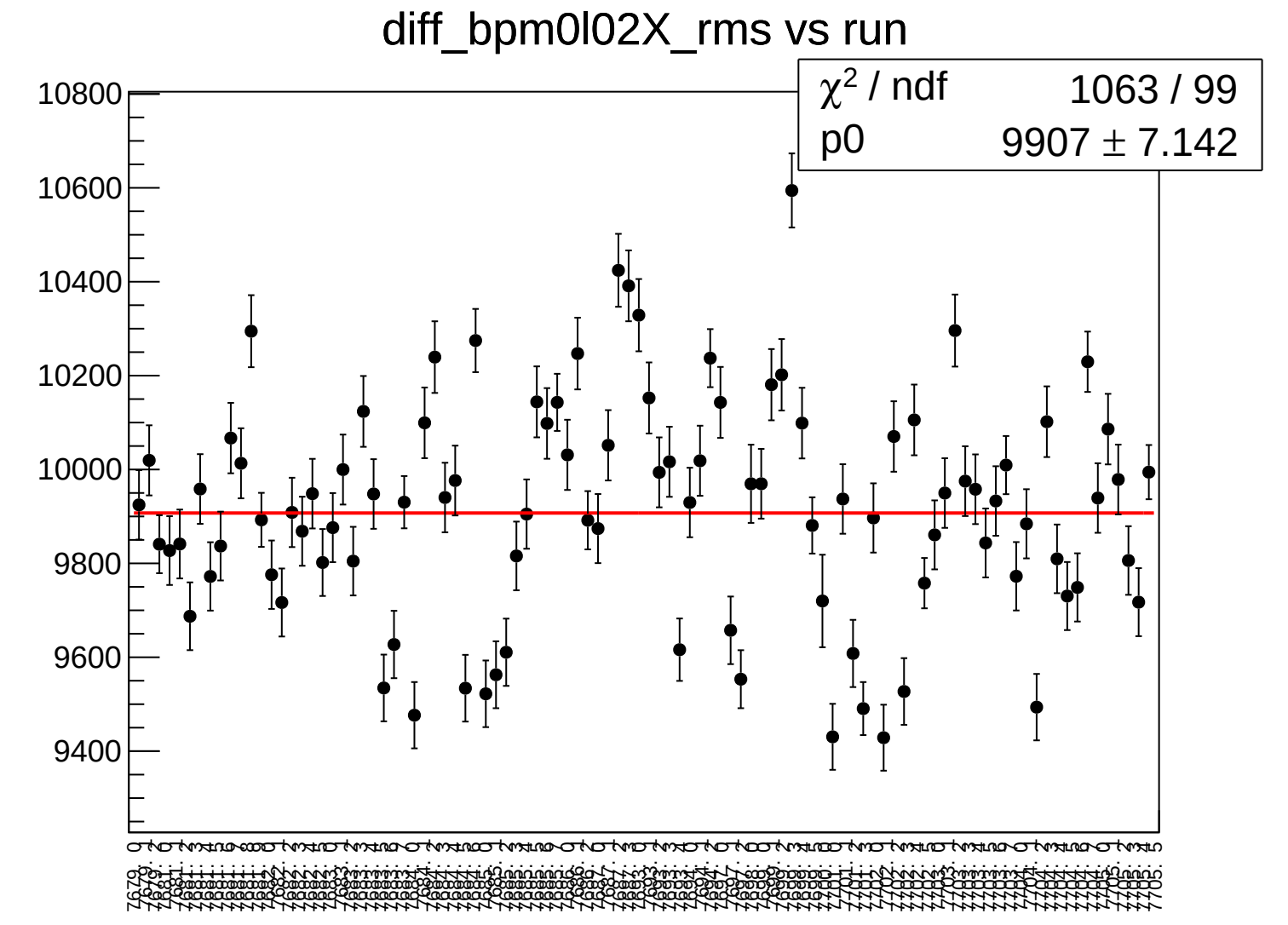

diff_bpm0l01Y_mean vs run
χ^2 / ndf 94.18 / 99
p0 8.24 ± 2.031
100
50
0
−50
−100
pull
Entries 100
Mean −244.6
Std Dev 0
2
1
0
−1
−2

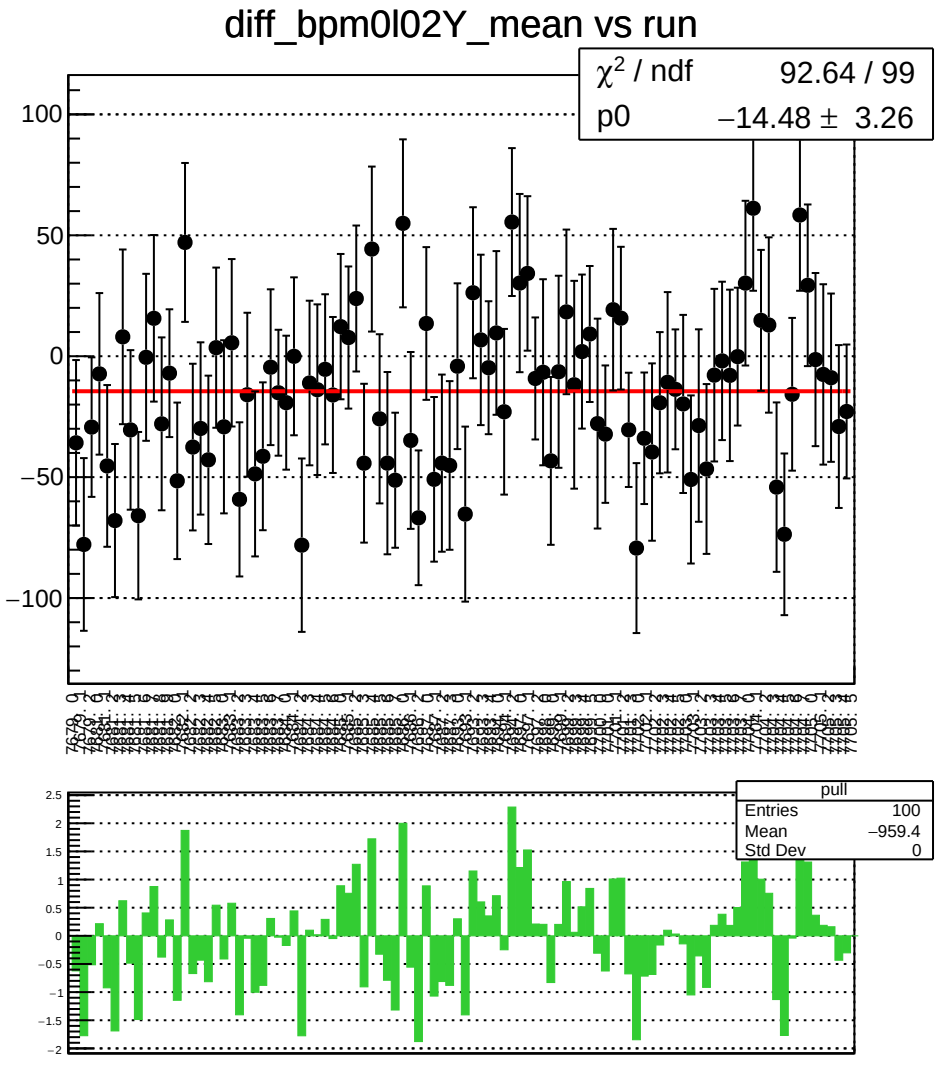

pull1D
Entries 100
Mean −0.004745
Std Dev 0.9705
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

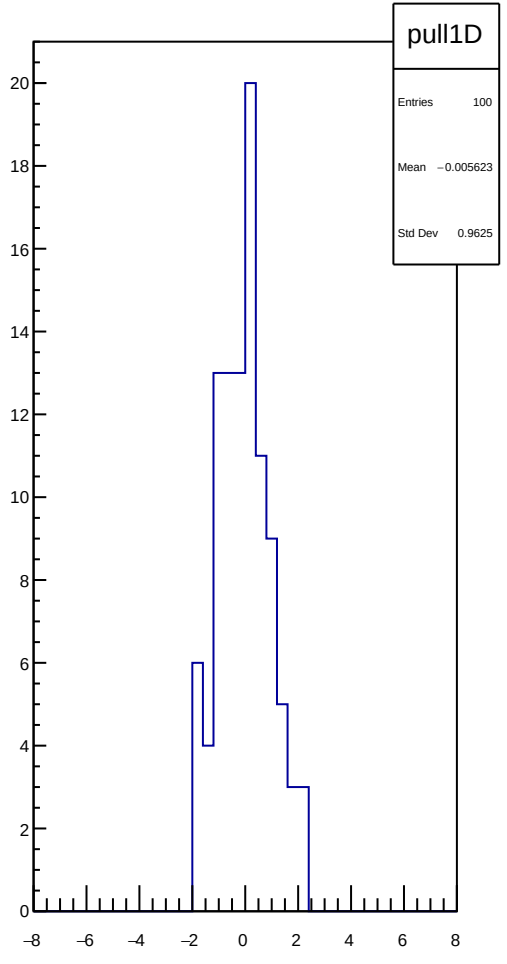

diff_bpm0l01Y_rms vs run
χ² / ndf 2205 / 99
p0 1992 ± 1.436
2300
2200
2100
2000
1900

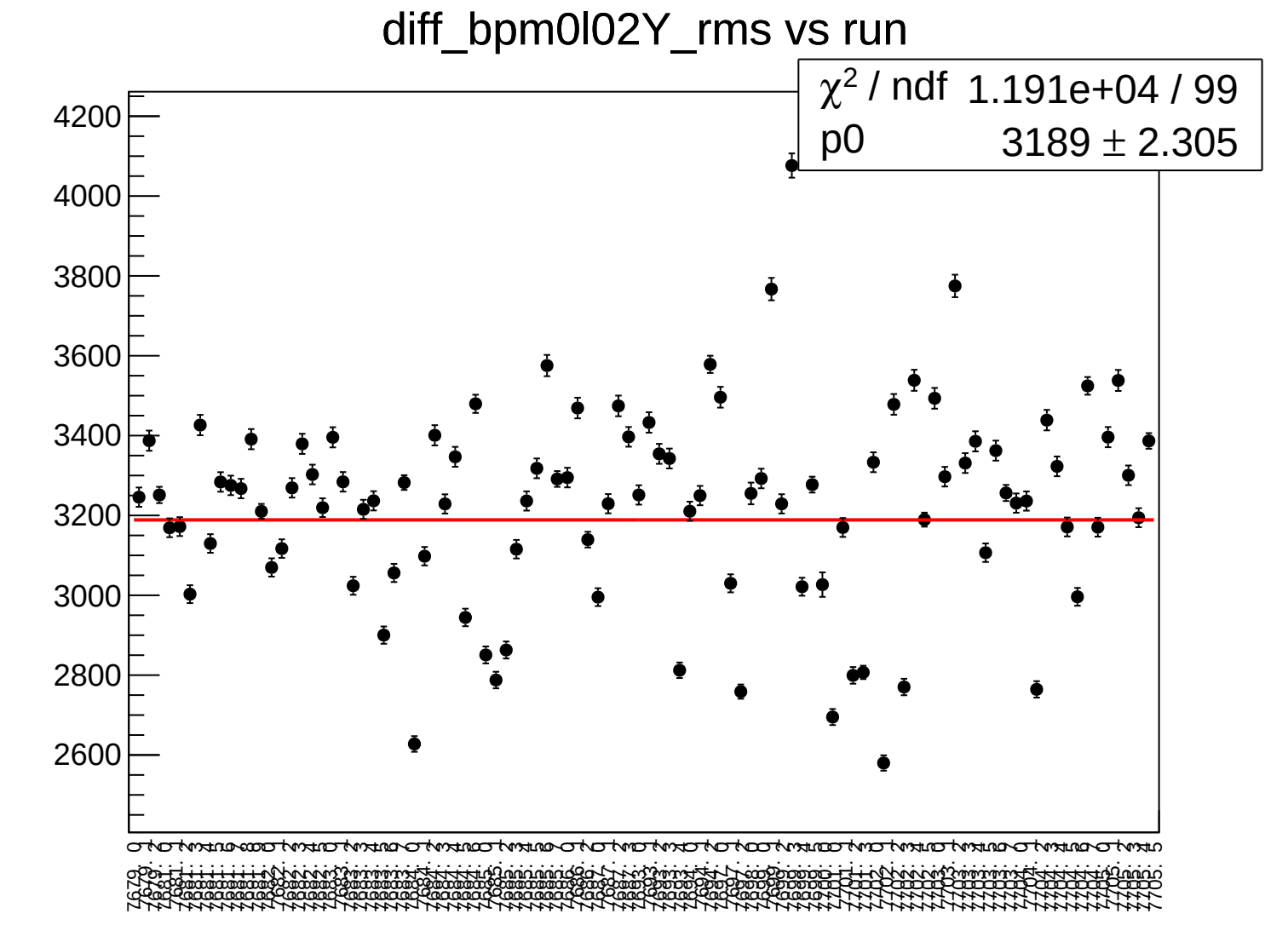

diff_bpm0l02X_mean vs run
χ² / ndf 120.7 / 99
p0 109.4 ± 10.1
pull
Entries 100
Mean 638.2
Std Dev 0

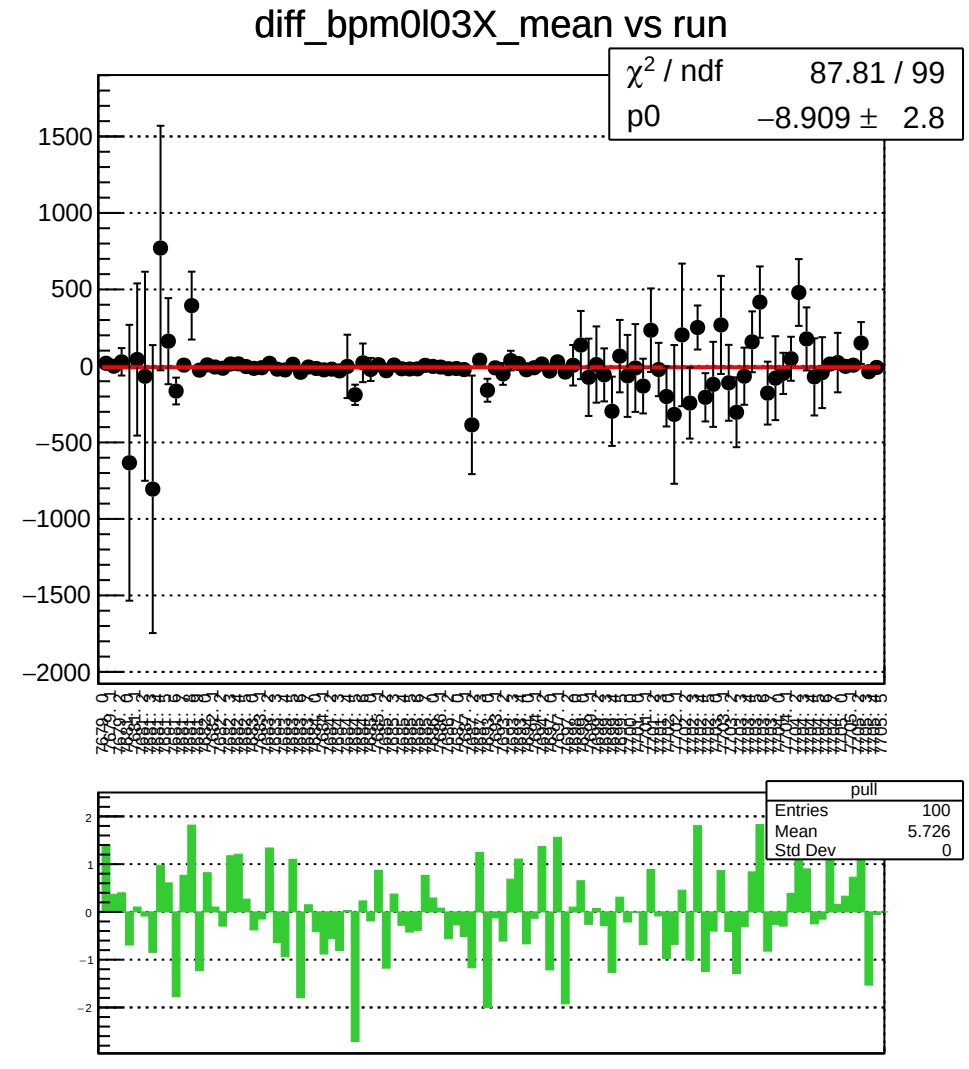

pull1D
Entries 100
Mean −0.009333
Std Dev 1.099

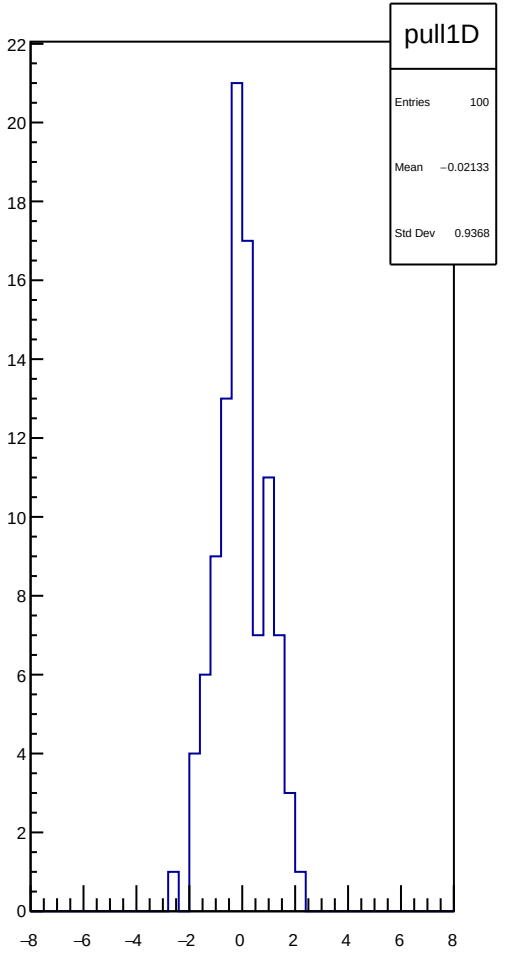

diff_bpm0l02X_rms vs run
χ^2 / ndf 1063 / 99
p0 9907 ± 7.142
10800
10600
10400
10200
10000
9800
9600
9400

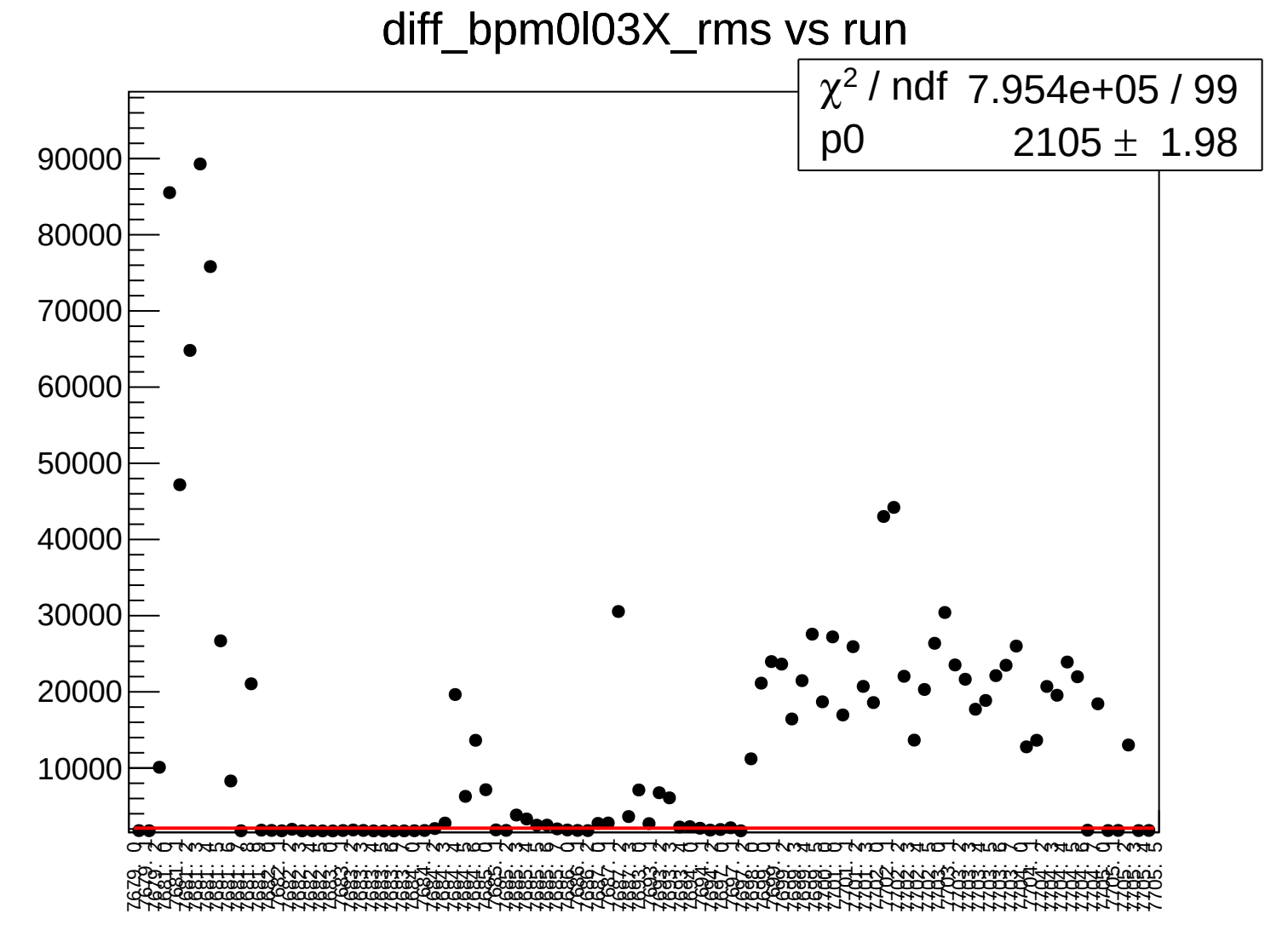

diff_bpm0l02Y_mean vs run
χ² / ndf 92.64 / 99
p0 −14.48 ± 3.26
100
50
0
−50
−100
pull
Entries 100
Mean −959.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

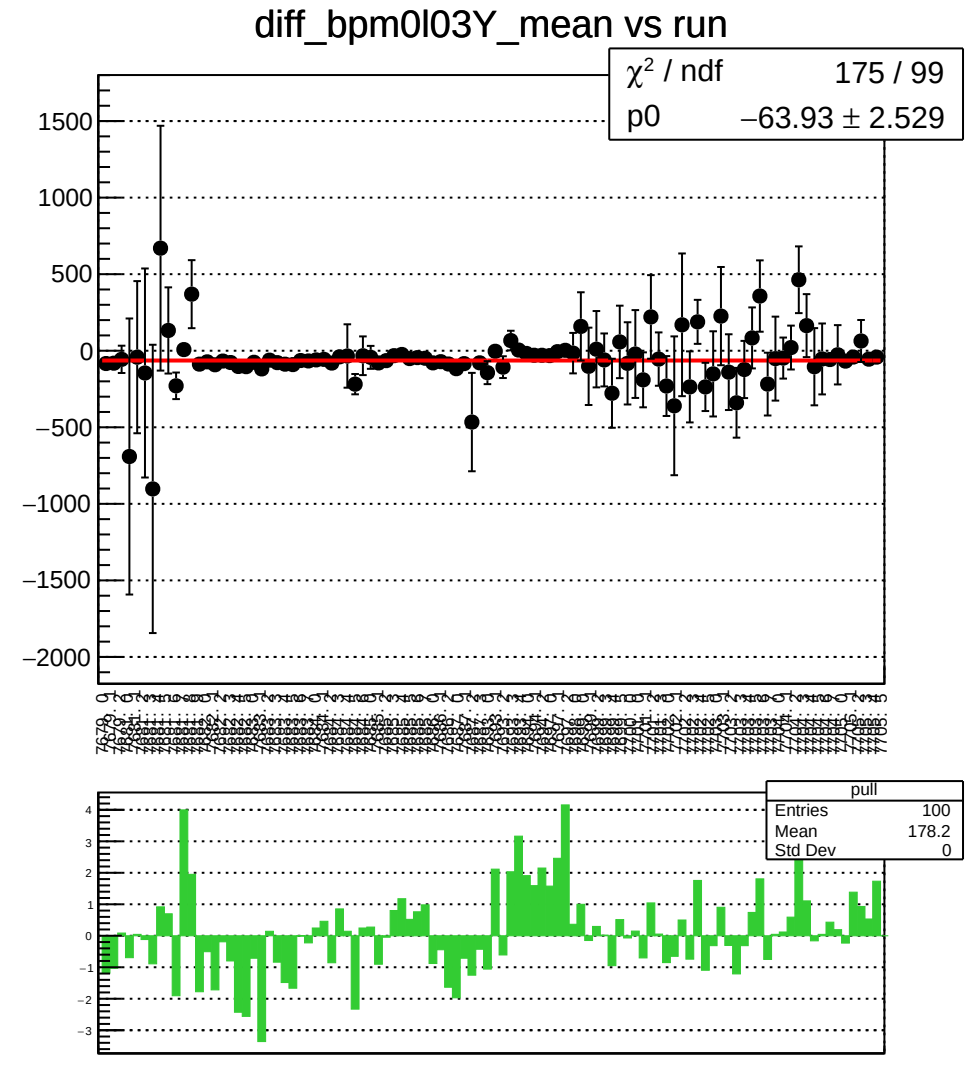

pull1D
Entries 100
Mean −0.005623
Std Dev 0.9625
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

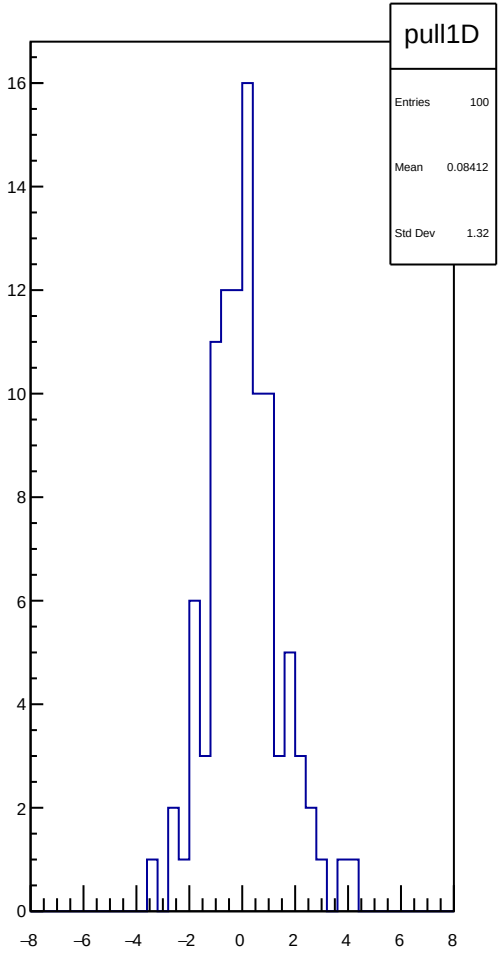

diff_bpm0l02Y_rms vs run
χ² / ndf 1.191e+04 / 99
p0 3189 ± 2.305
4200
4000
3800
3600
3400
3200
3000
2800
2600

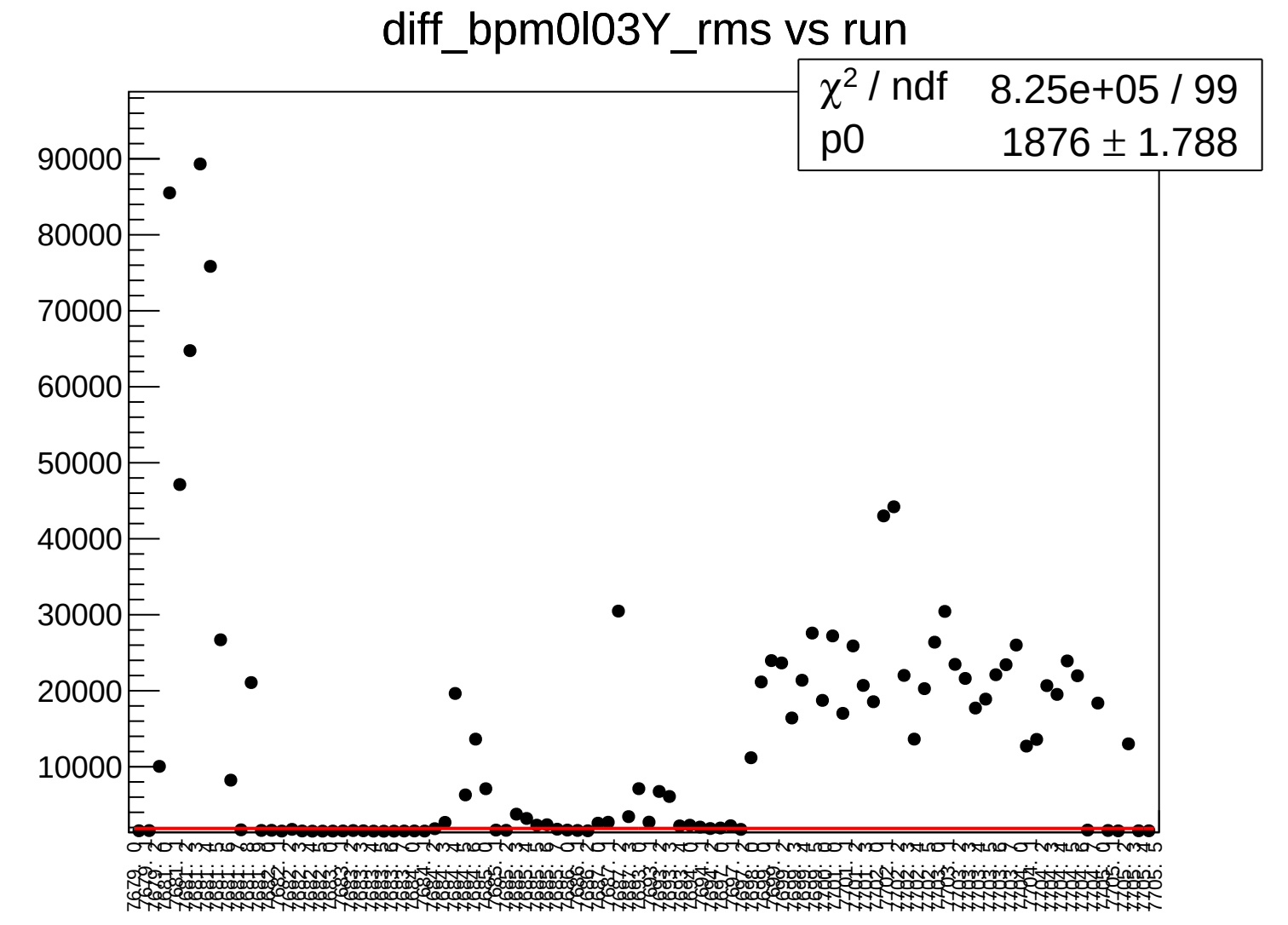

diff_bpm0l03X_mean vs run
χ² / ndf 87.81 / 99
p0 −8.909 ± 2.8
pull
Entries 100
Mean 5.726
Std Dev 0

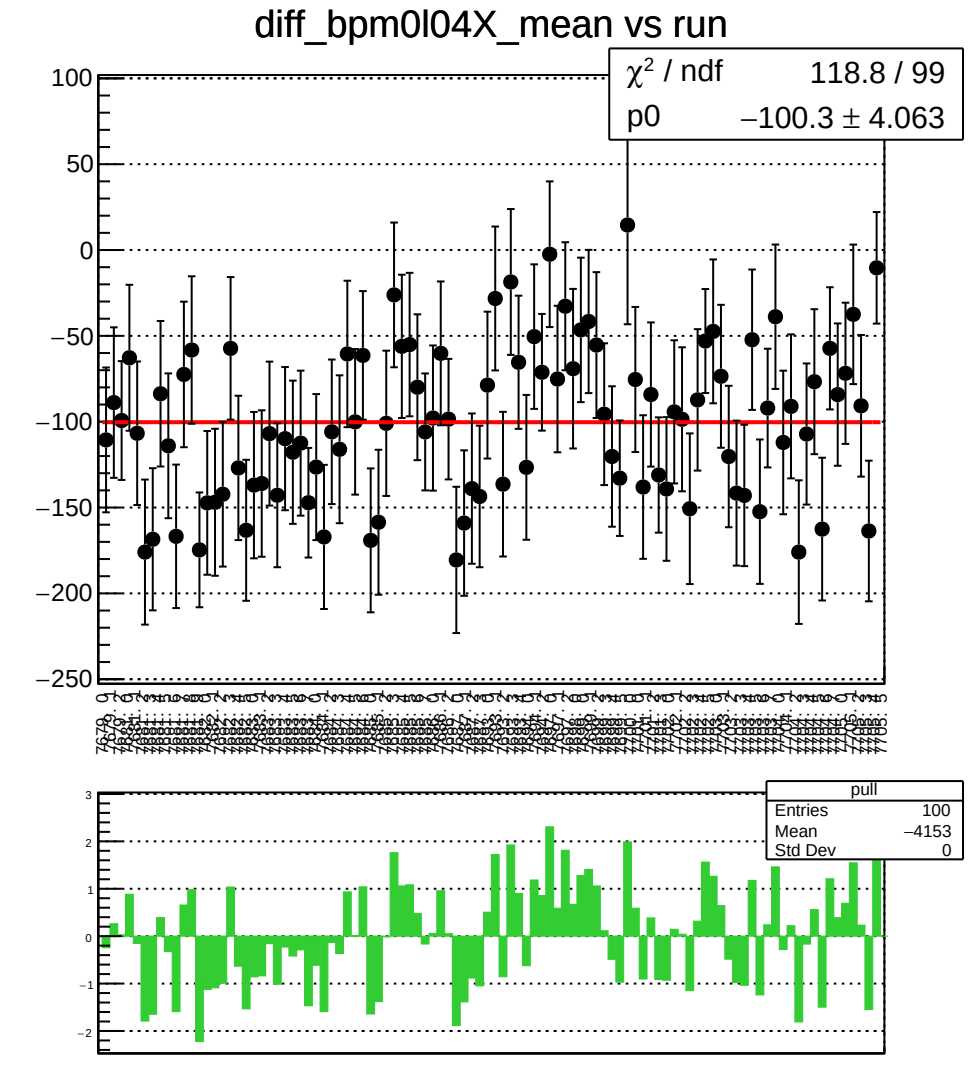

pull1D
Entries 100
Mean −0.02133
Std Dev 0.9368

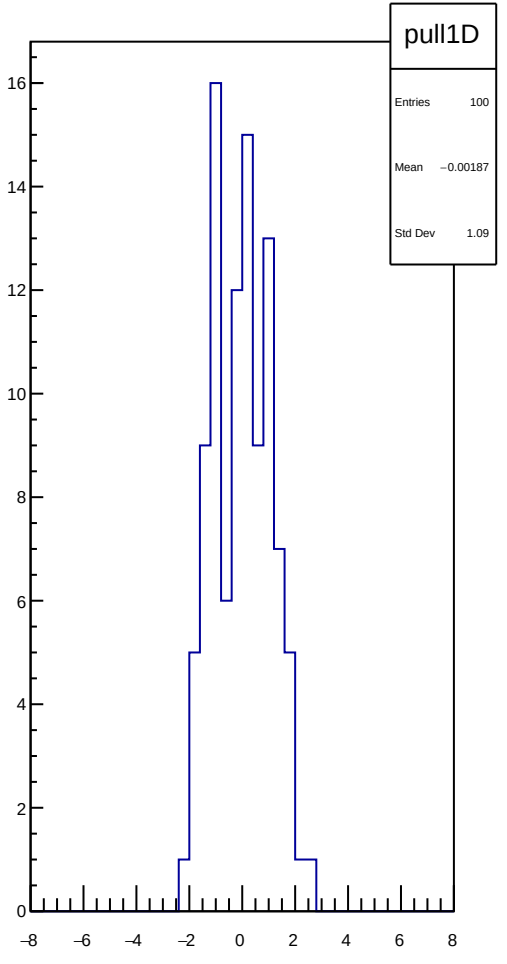

diff_bpm0l03X_rms vs run
χ^2 / ndf 7.954e+05 / 99
p0 2105 ± 1.98
90000
80000
70000
60000
50000
40000
30000
20000
10000

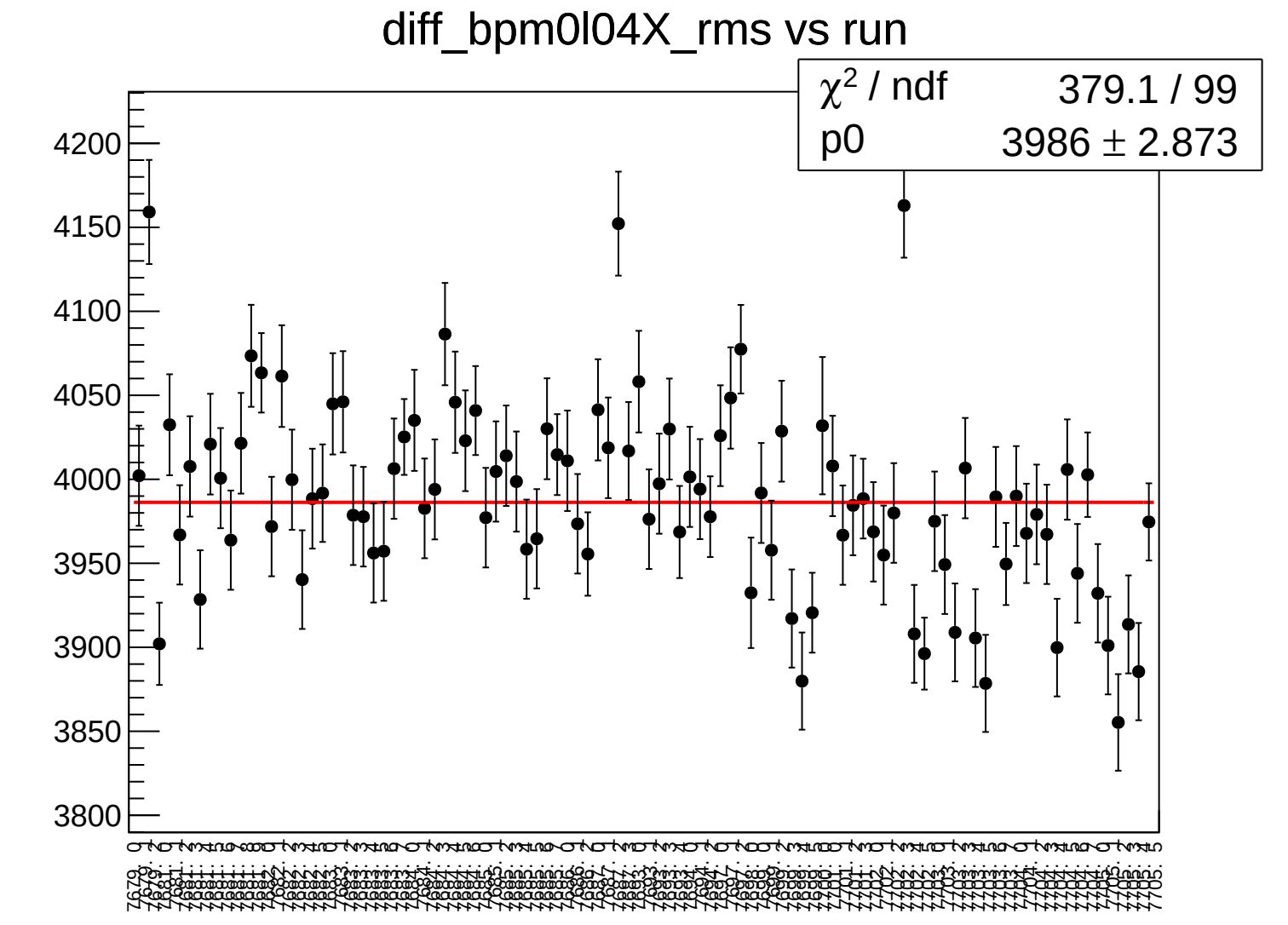

diff_bpm0l03Y_mean vs run
χ² / ndf 175 / 99
p0 −63.93 ± 2.529
pull
Entries 100
Mean 178.2
Std Dev 0

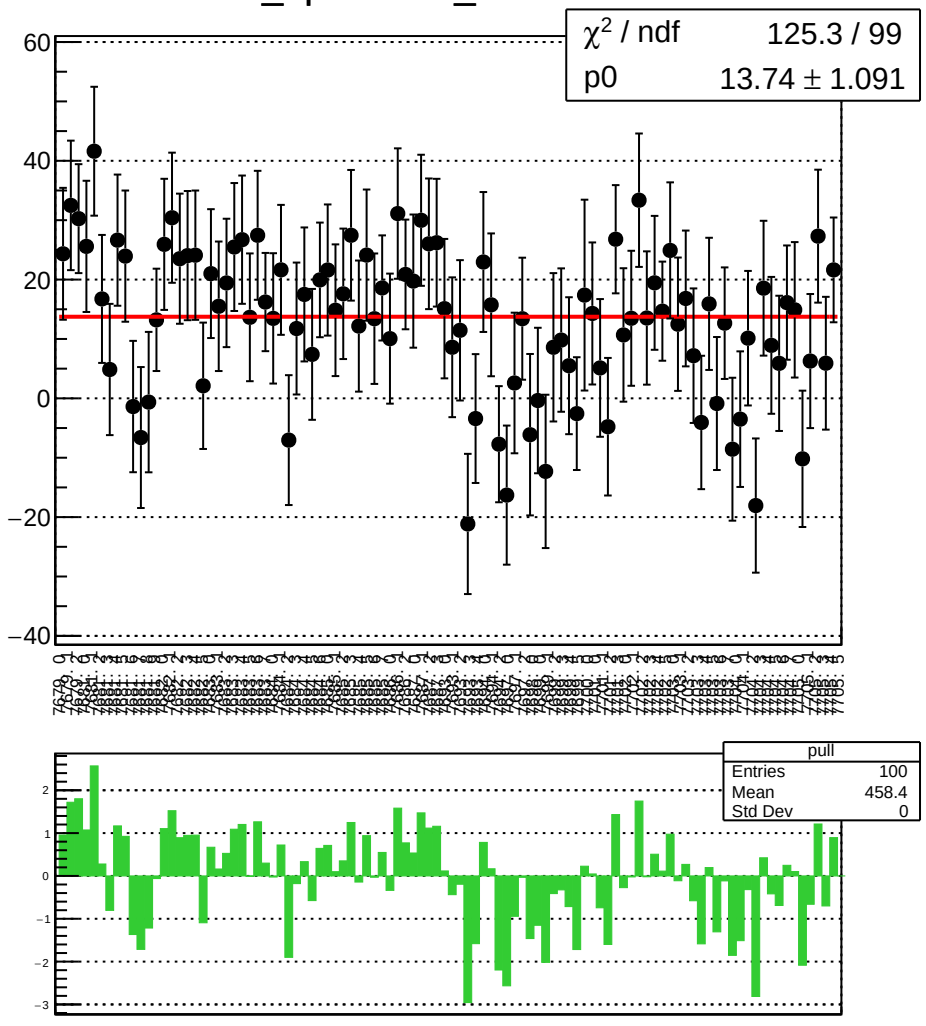

pull1D
Entries 100
Mean 0.08412
Std Dev 1.32

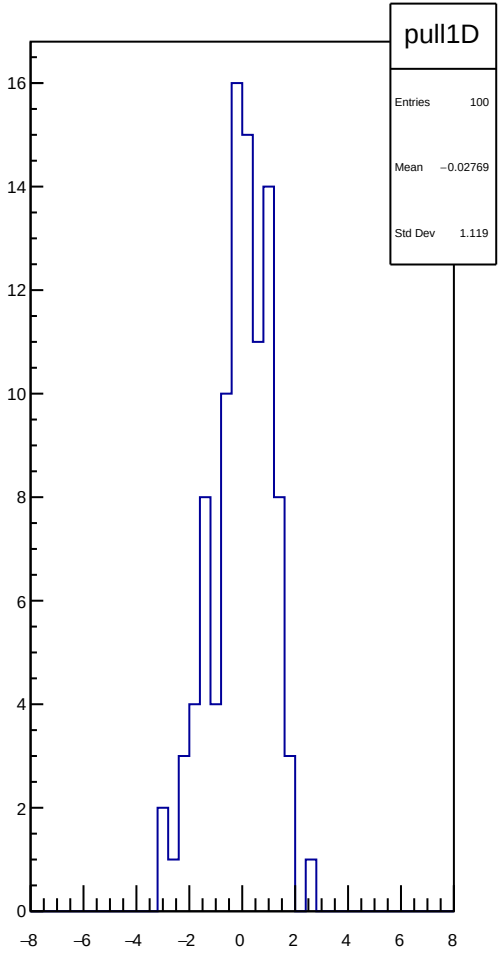

diff_bpm0l03Y_rms vs run
χ^2 / ndf 8.25e+05 / 99
p0 1876 ± 1.788
90000
80000
70000
60000
50000
40000
30000
20000
10000

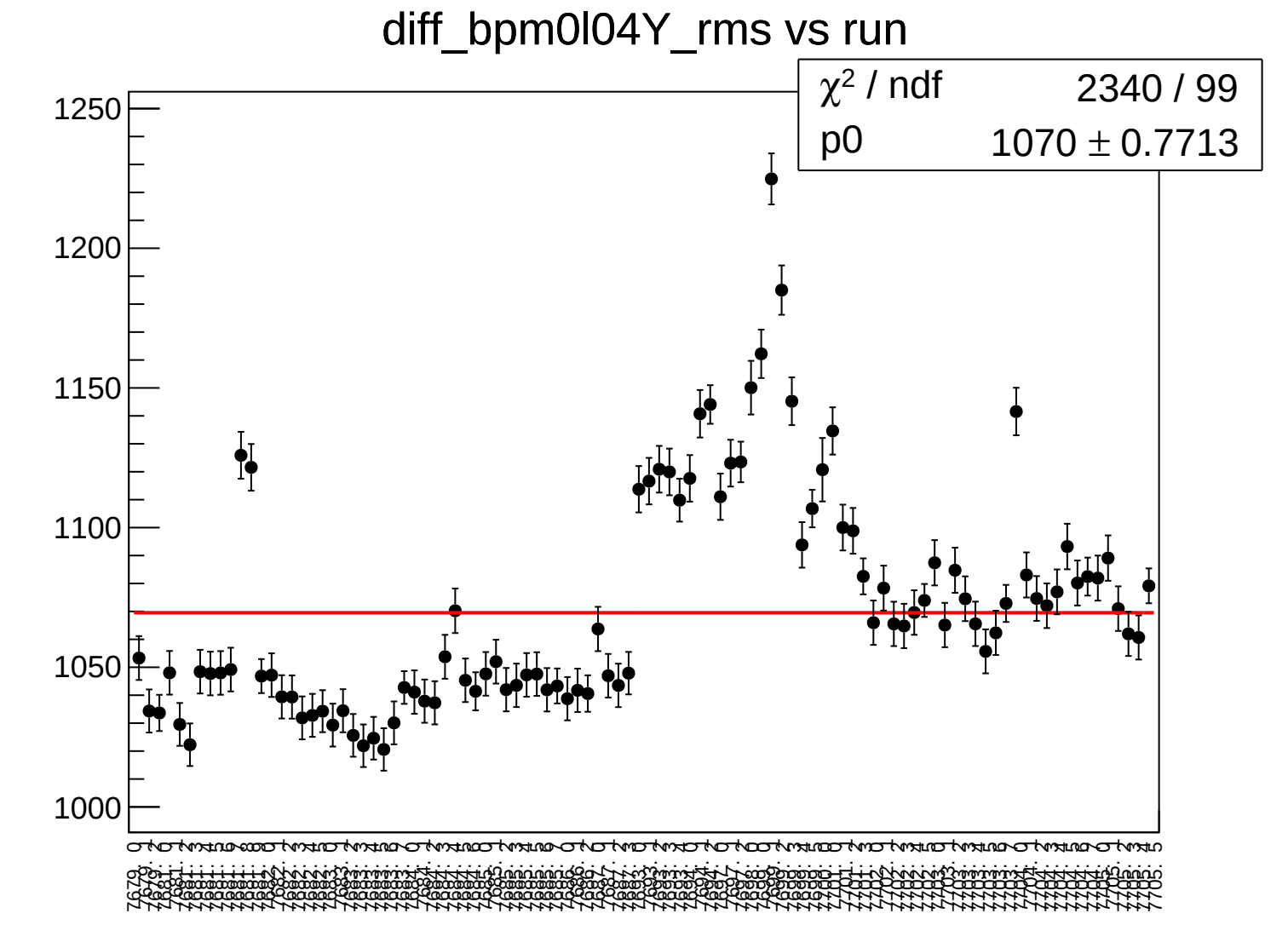

diff_bpm0l04X_mean vs run
χ² / ndf 118.8 / 99
p0 −100.3 ± 4.063
pull
Entries 100
Mean −4153
Std Dev 0

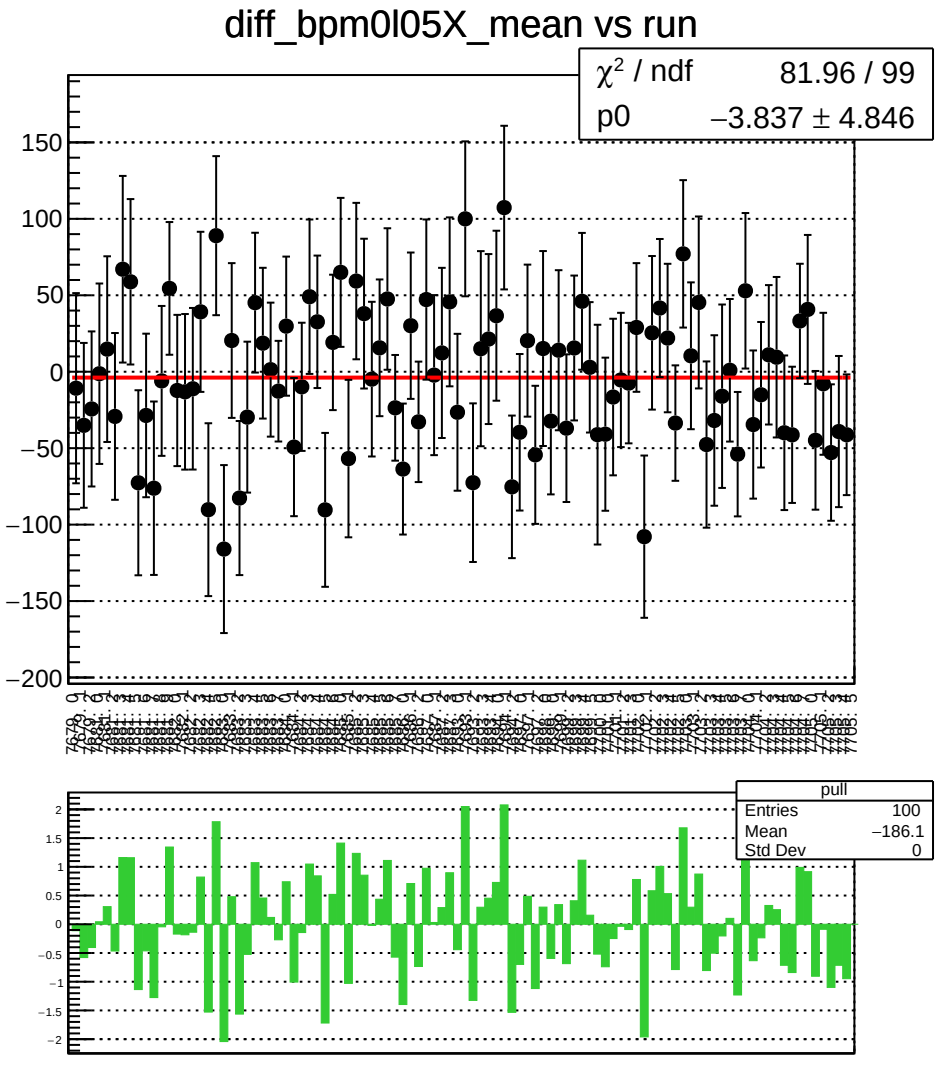

pull1D
Entries 100
Mean −0.00187
Std Dev 1.09

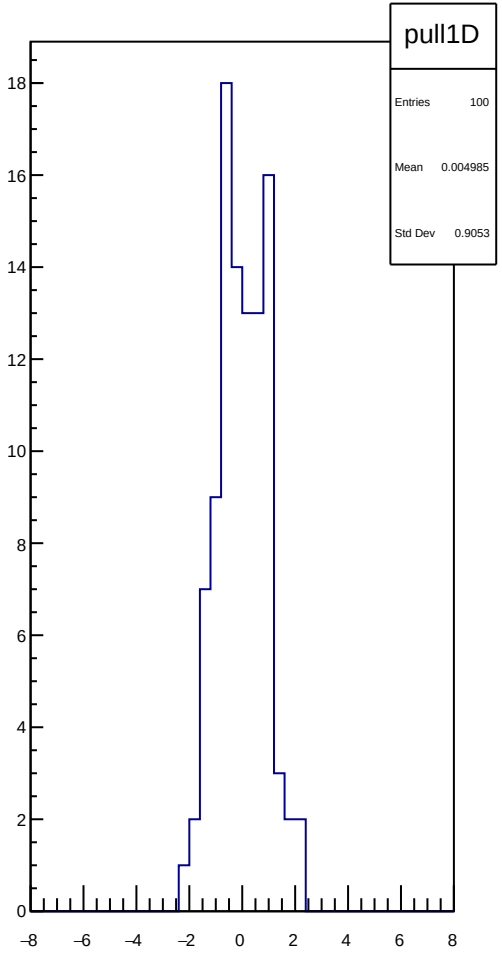

diff_bpm0l04X_rms vs run
χ² / ndf 379.1 / 99
p0 3986 ± 2.873
4200
4150
4100
4050
4000
3950
3900
3850
3800

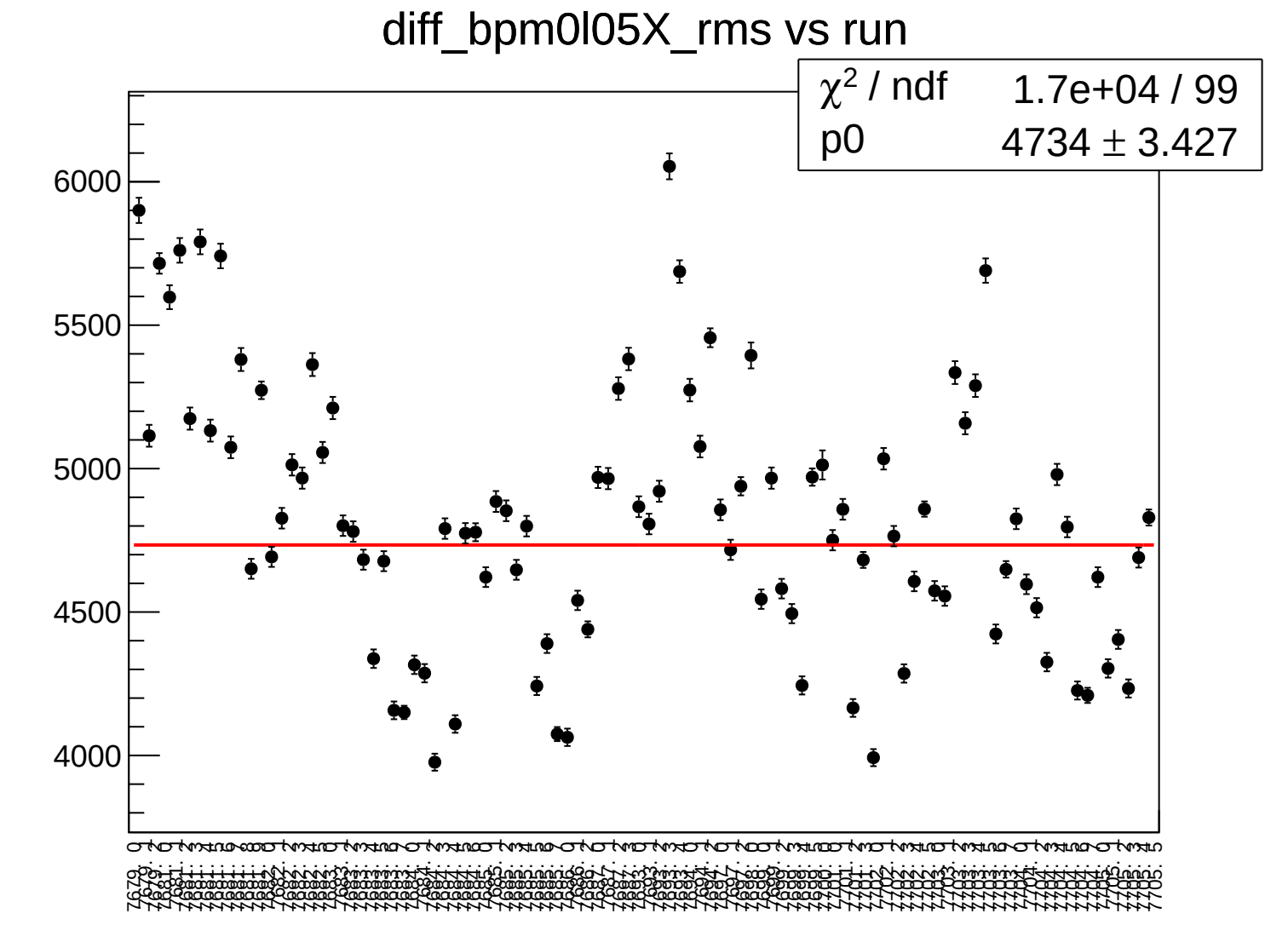

diff_bpm0l04Y_mean vs run
χ^2 / ndf 125.3 / 99
p0 13.74 ± 1.091
pull
Entries 100
Mean 458.4
Std Dev 0

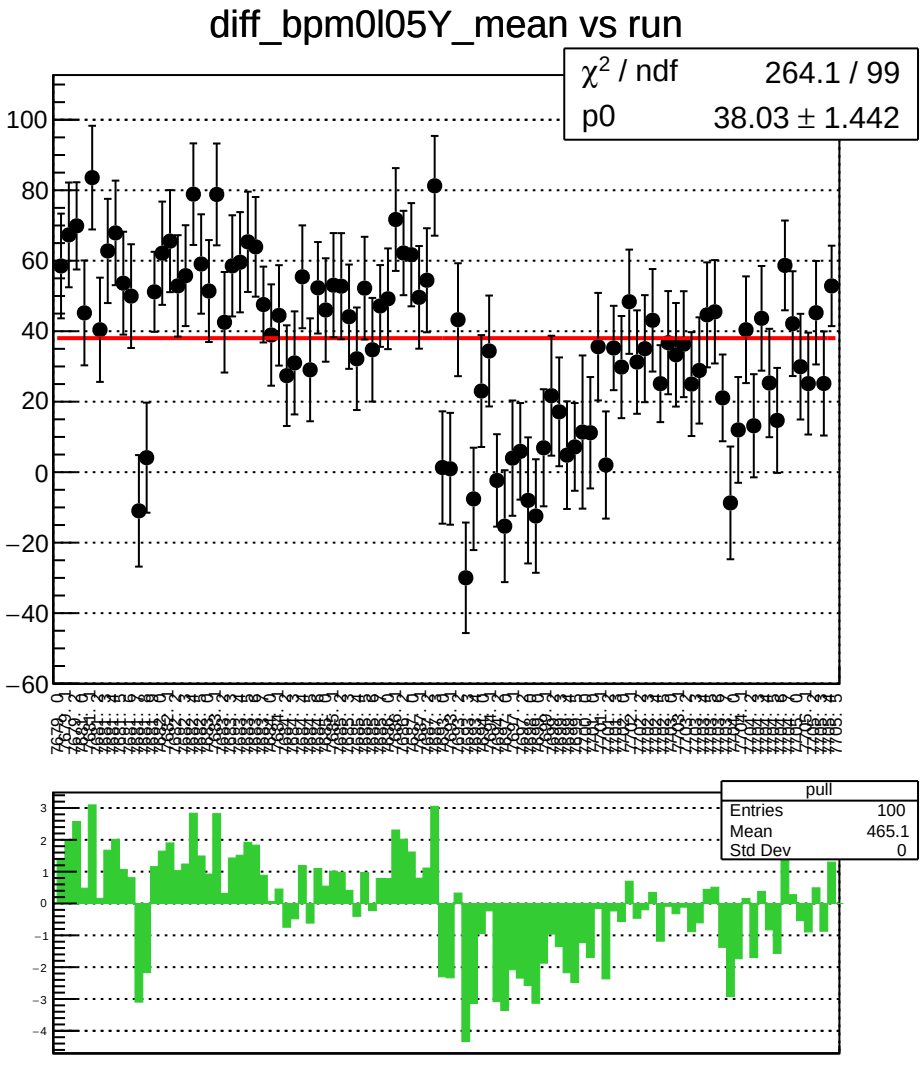

pull1D
Entries 100
Mean −0.02769
Std Dev 1.119

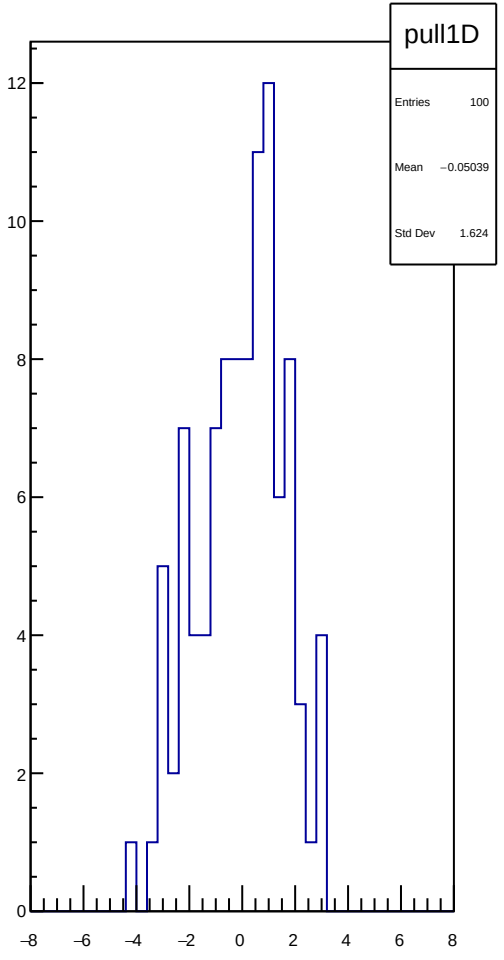

diff_bpm0l04Y_rms vs run
χ² / ndf 2340 / 99
p0 1070 ± 0.7713
1250
1200
1150
1100
1050
1000

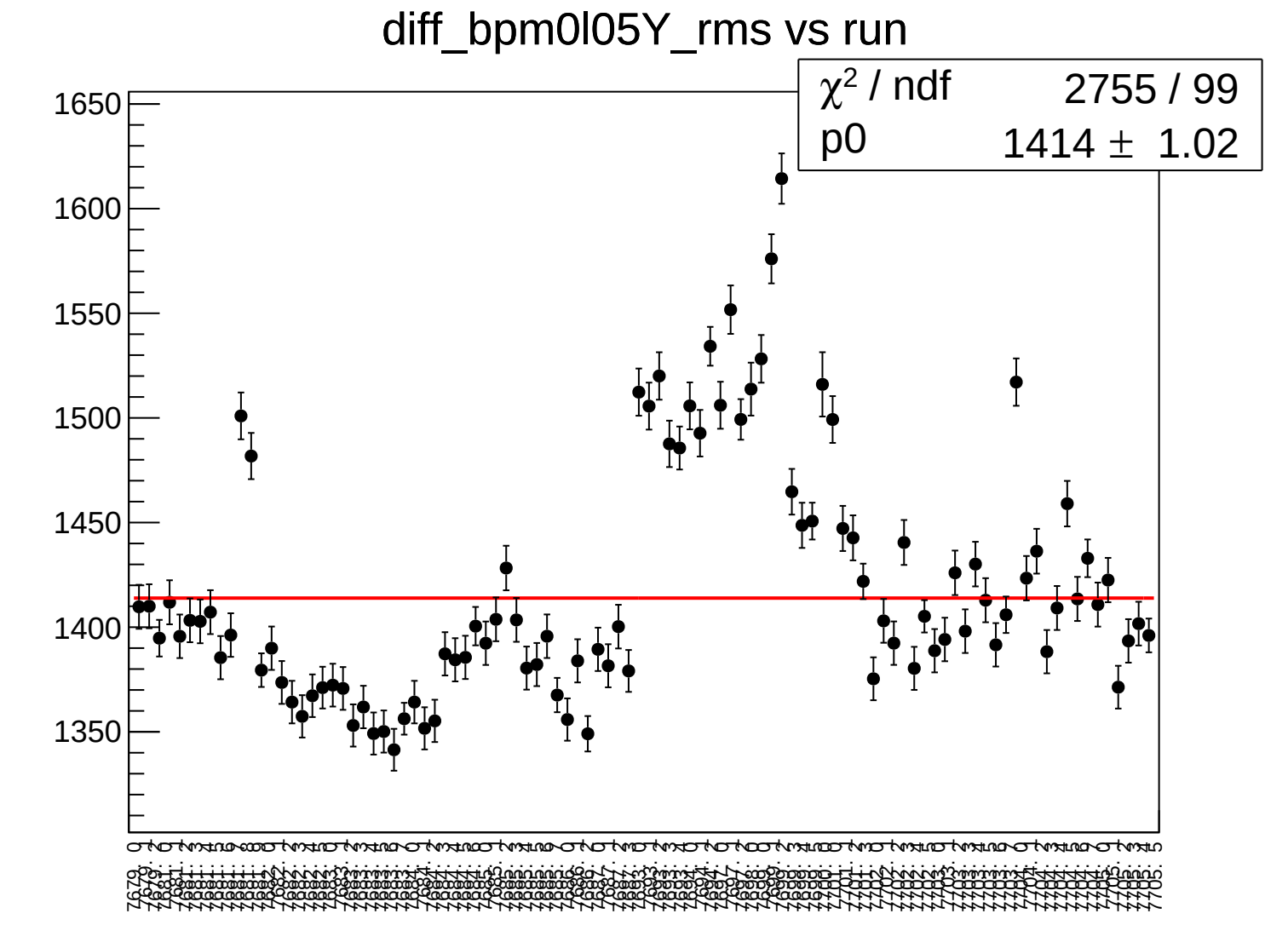

diff_bpm0l05X_mean vs run
χ² / ndf 81.96 / 99
p0 −3.837 ± 4.846
pull
Entries 100
Mean −186.1
Std Dev 0

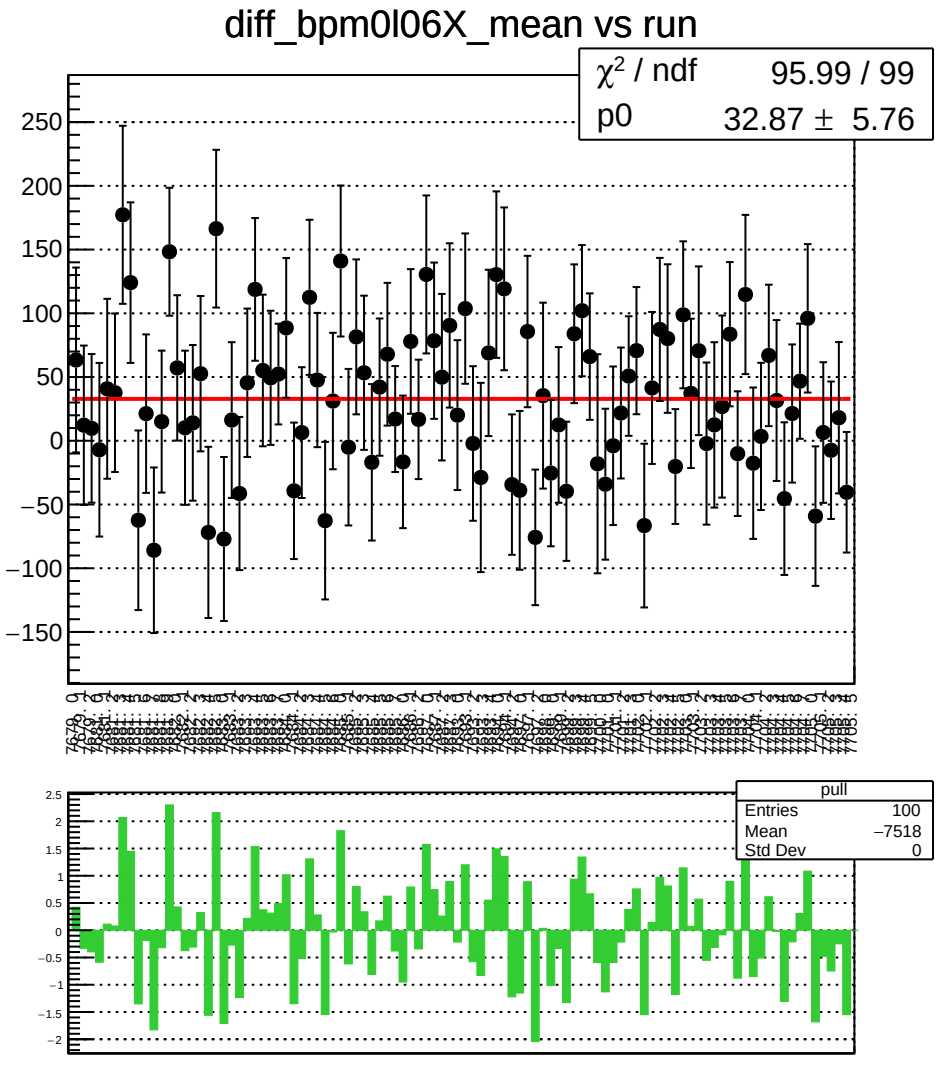

pull1D
Entries 100
Mean 0.004985
Std Dev 0.9053

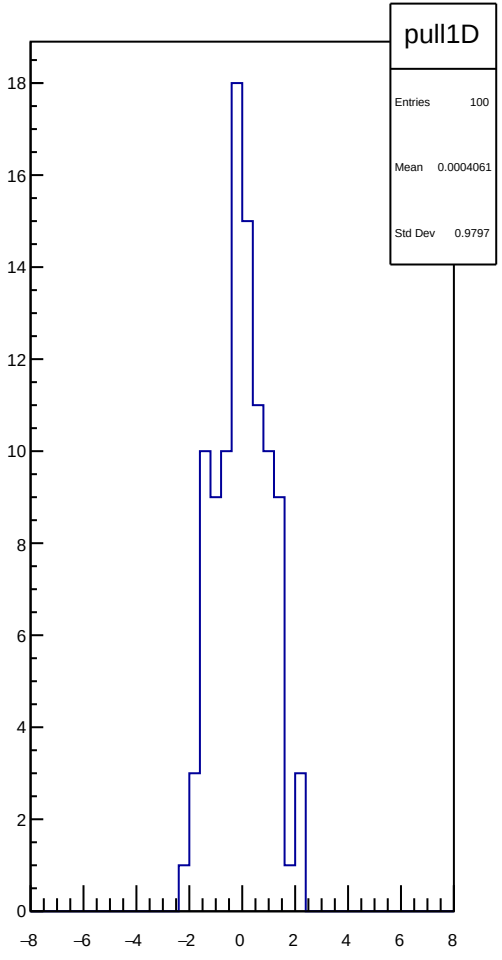

diff_bpm0l05X_rms vs run
χ² / ndf 1.7e+04 / 99
p0 4734 ± 3.427
6000
5500
5000
4500
4000

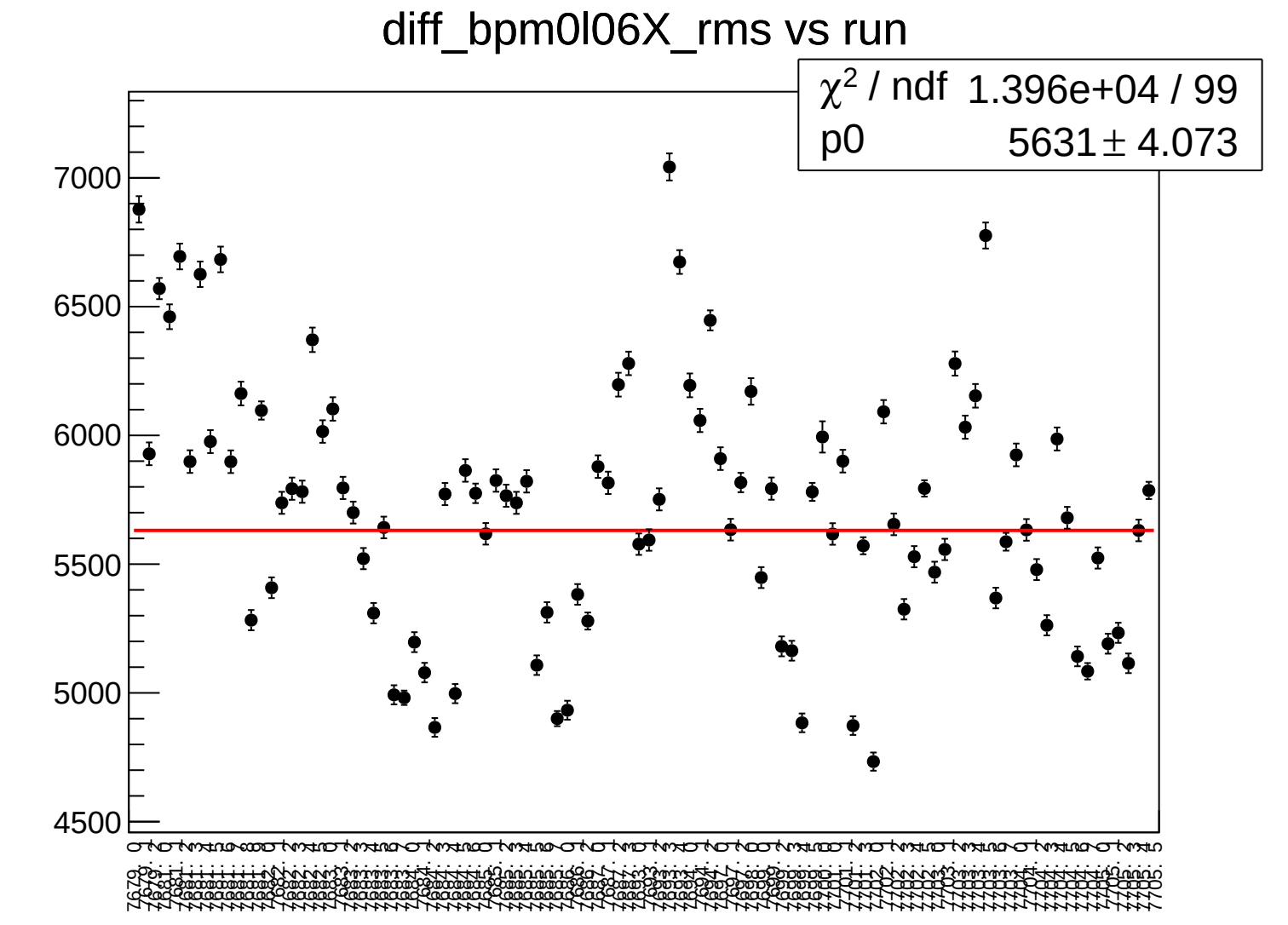

diff_bpm0l05Y_mean vs run
χ² / ndf 264.1 / 99
p0 38.03 ± 1.442
pull
Entries 100
Mean 465.1
Std Dev 0

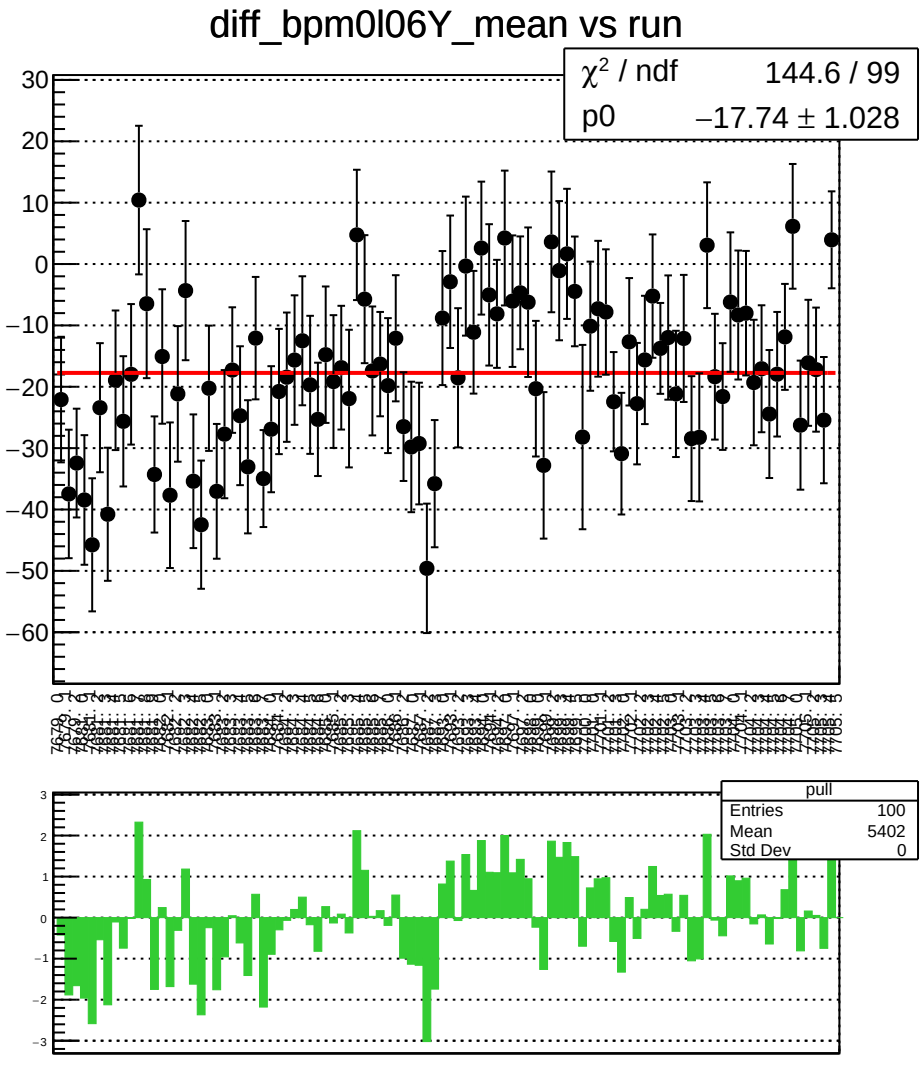

pull1D
Entries 100
Mean −0.05039
Std Dev 1.624

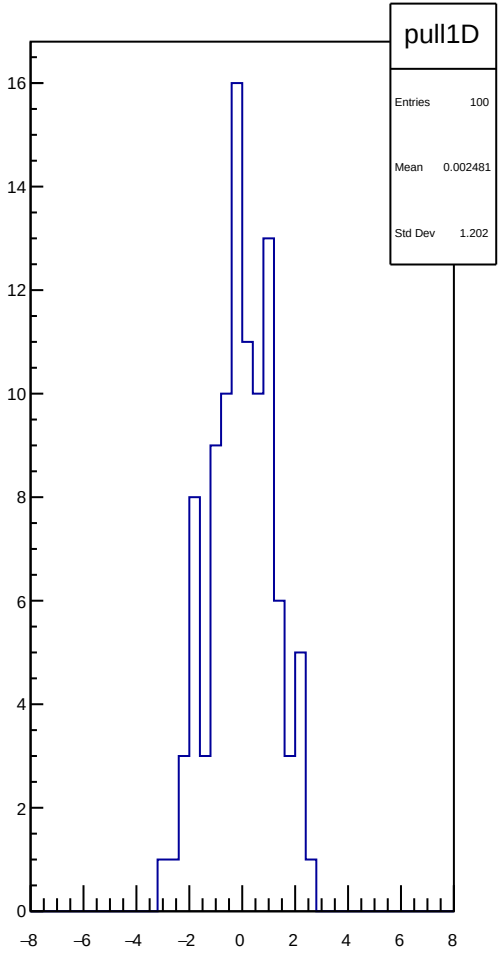

diff_bpm0l05Y_rms vs run
χ² / ndf 2755 / 99
p0 1414 ± 1.02
1650
1600
1550
1500
1450
1400
1350

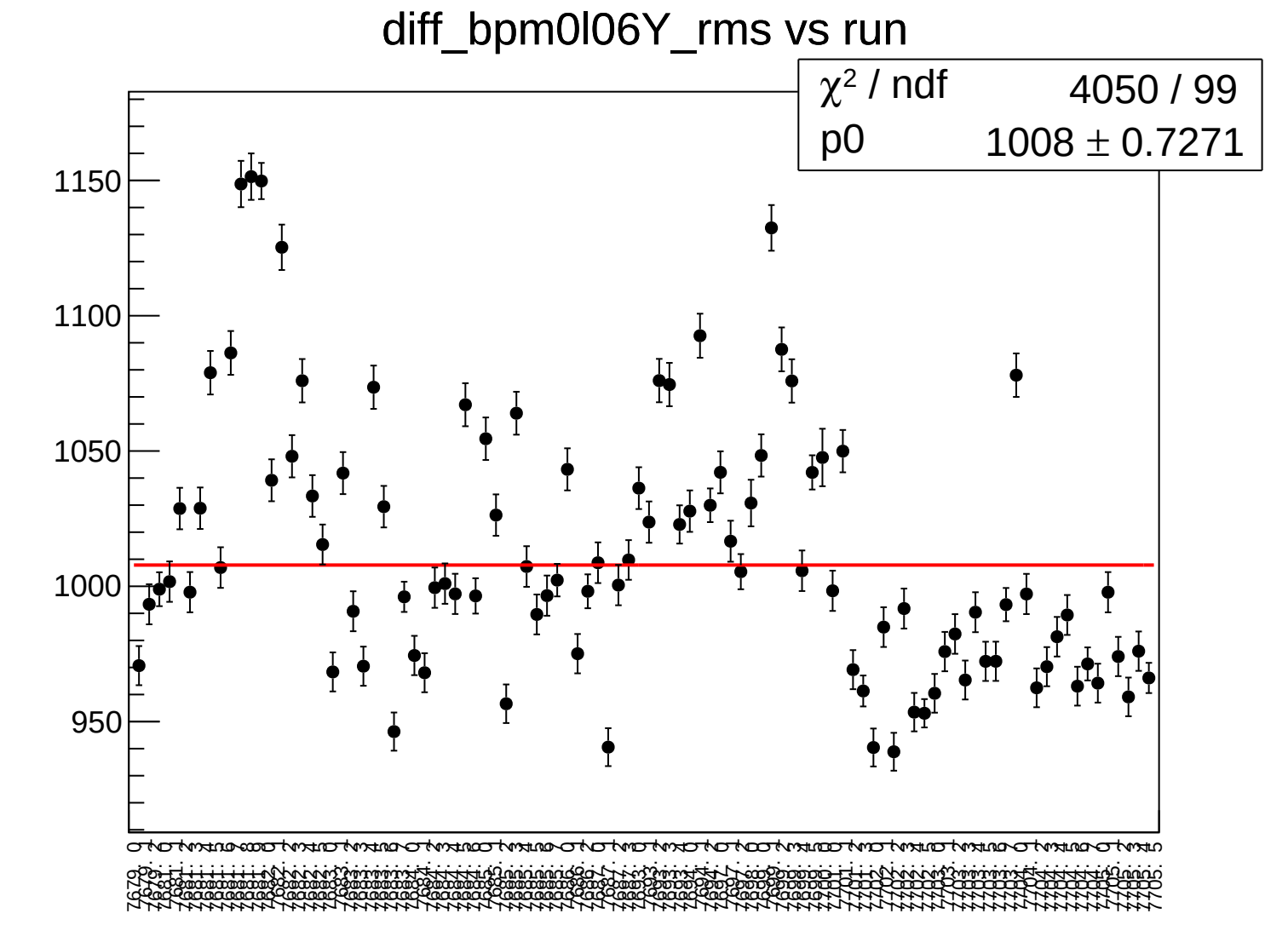

diff_bpm0l06X_mean vs run
χ² / ndf 95.99 / 99
p0 32.87 ± 5.76
pull
Entries 100
Mean −7518
Std Dev 0

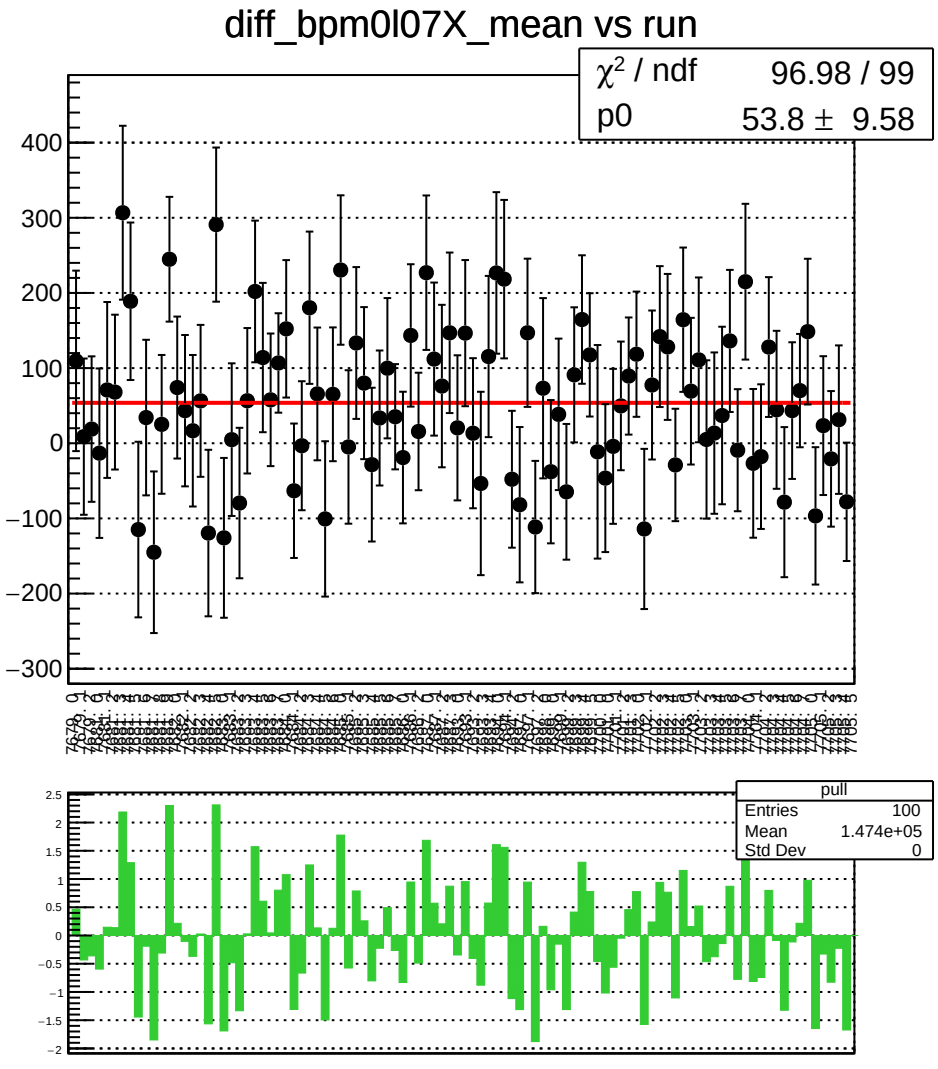

pull1D
Entries 100
Mean 0.0004061
Std Dev 0.9797

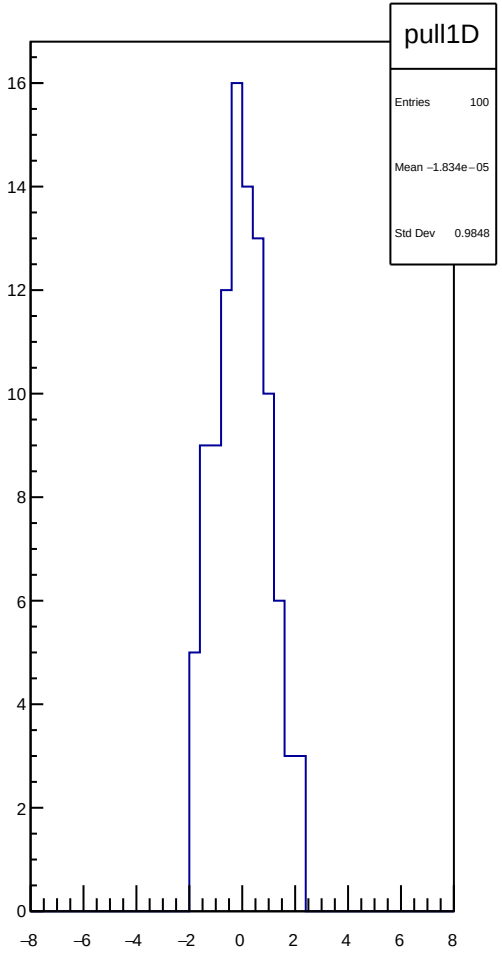

diff_bpm0l06X_rms vs run
χ² / ndf 1.396e+04 / 99
p0 5631 ± 4.073
7000
6500
6000
5500
5000
4500

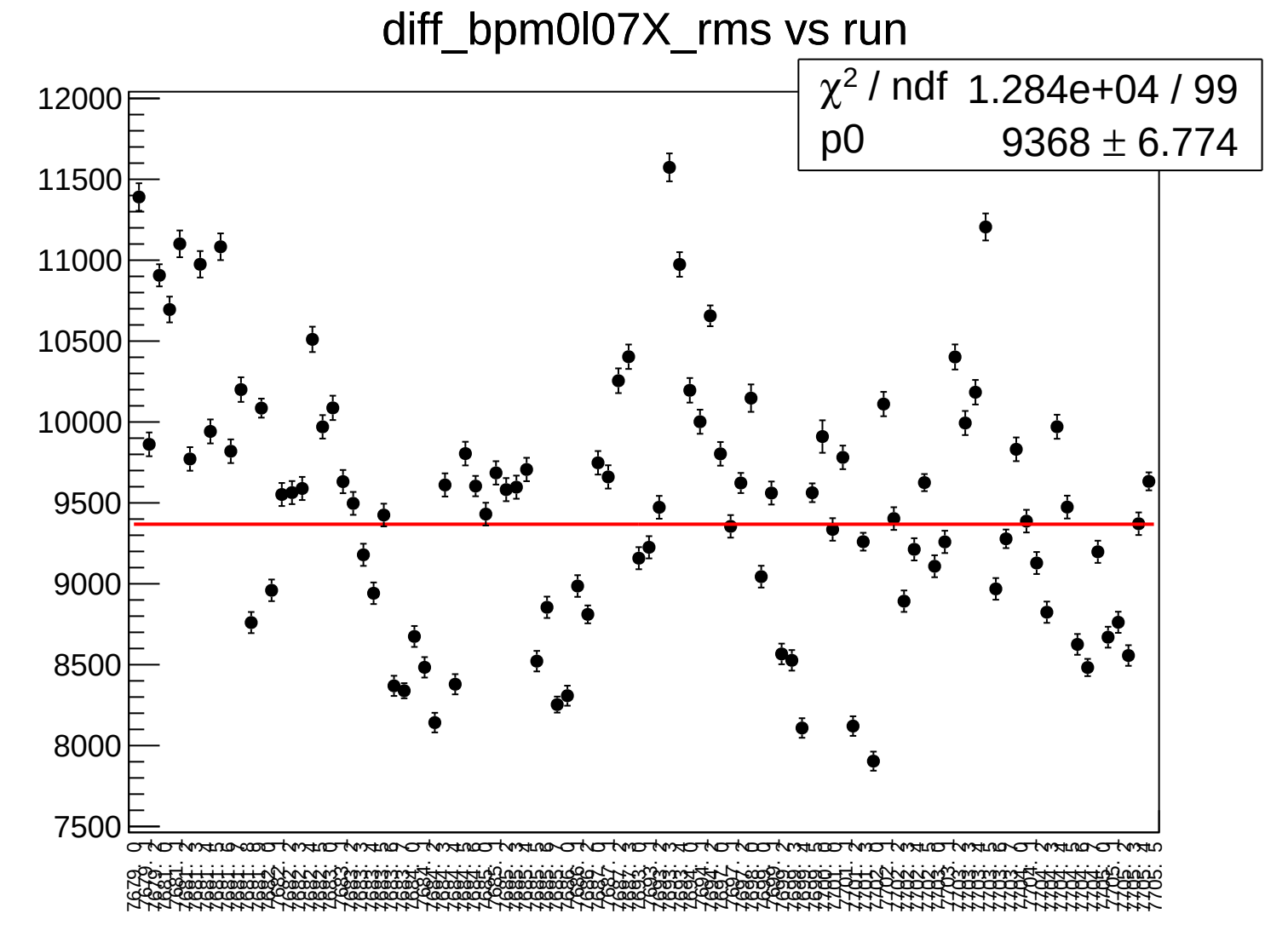

diff_bpm0l06Y_mean vs run
χ² / ndf 144.6 / 99
p0 −17.74 ± 1.028
pull
Entries 100
Mean 5402
Std Dev 0

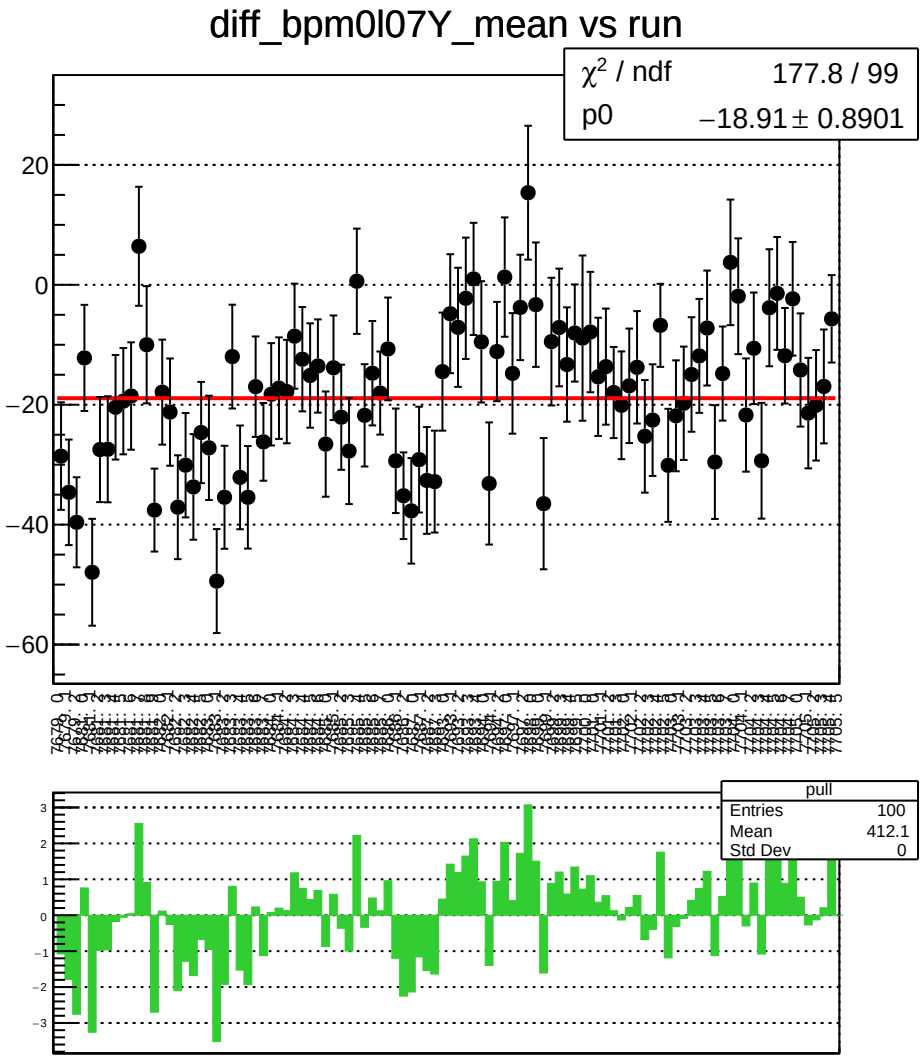

pull1D
Entries 100
Mean 0.002481
Std Dev 1.202

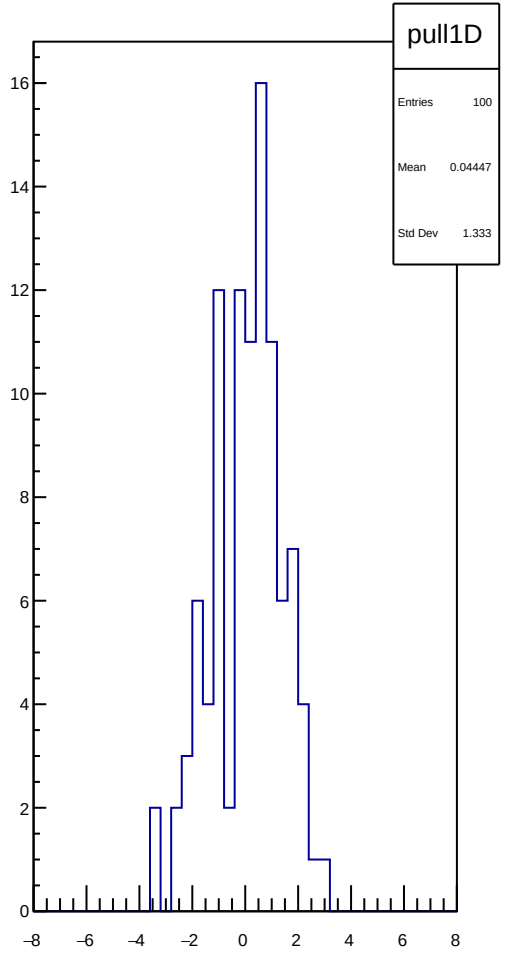

diff_bpm0l06Y_rms vs run
χ² / ndf 4050 / 99
p0 1008 ± 0.7271
1150
1100
1050
1000
950

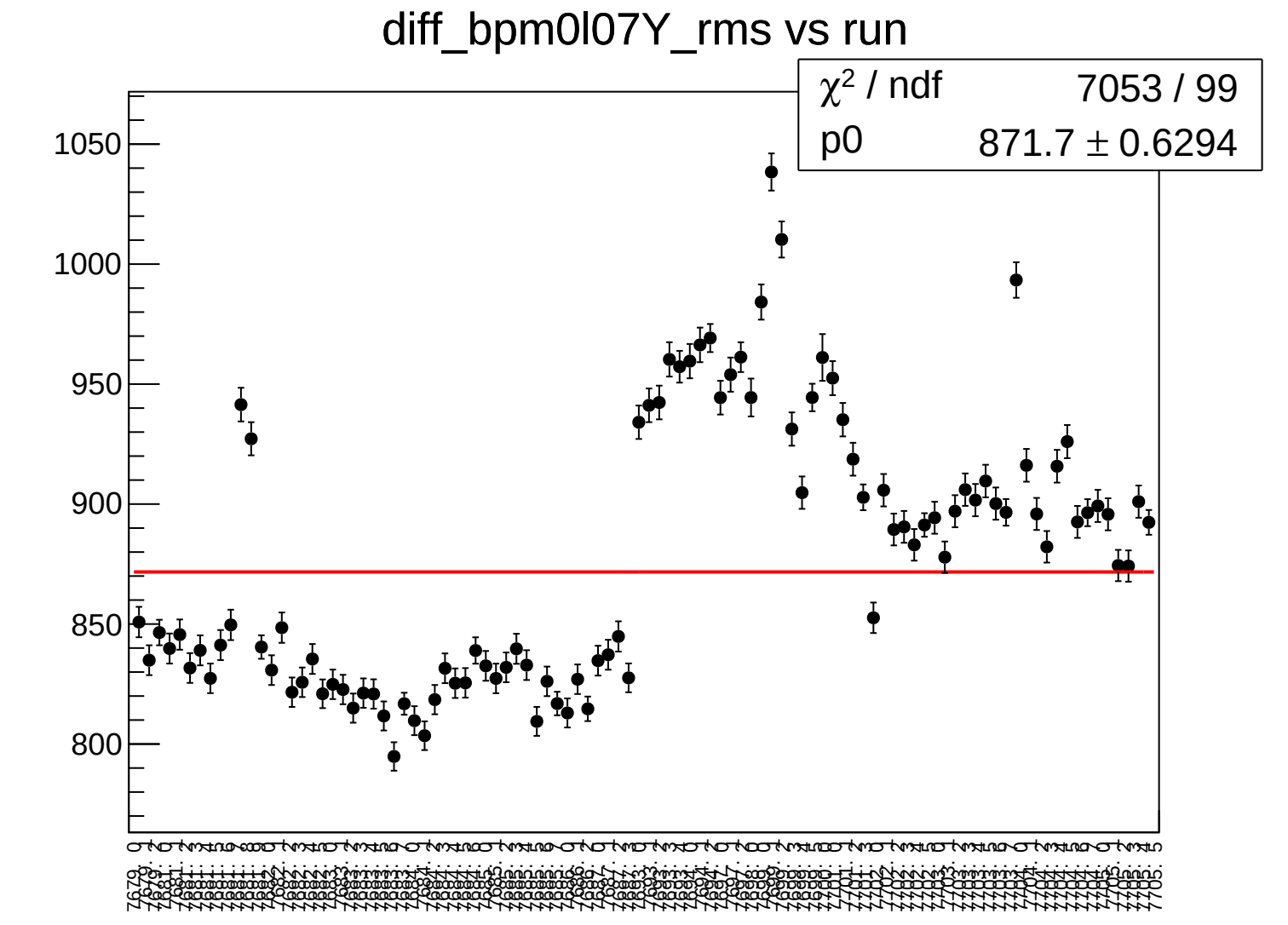

diff_bpm0l07X_mean vs run
χ² / ndf 96.98 / 99
p0 53.8 ± 9.58
pull
Entries 100
Mean 1.474e+05
Std Dev 0

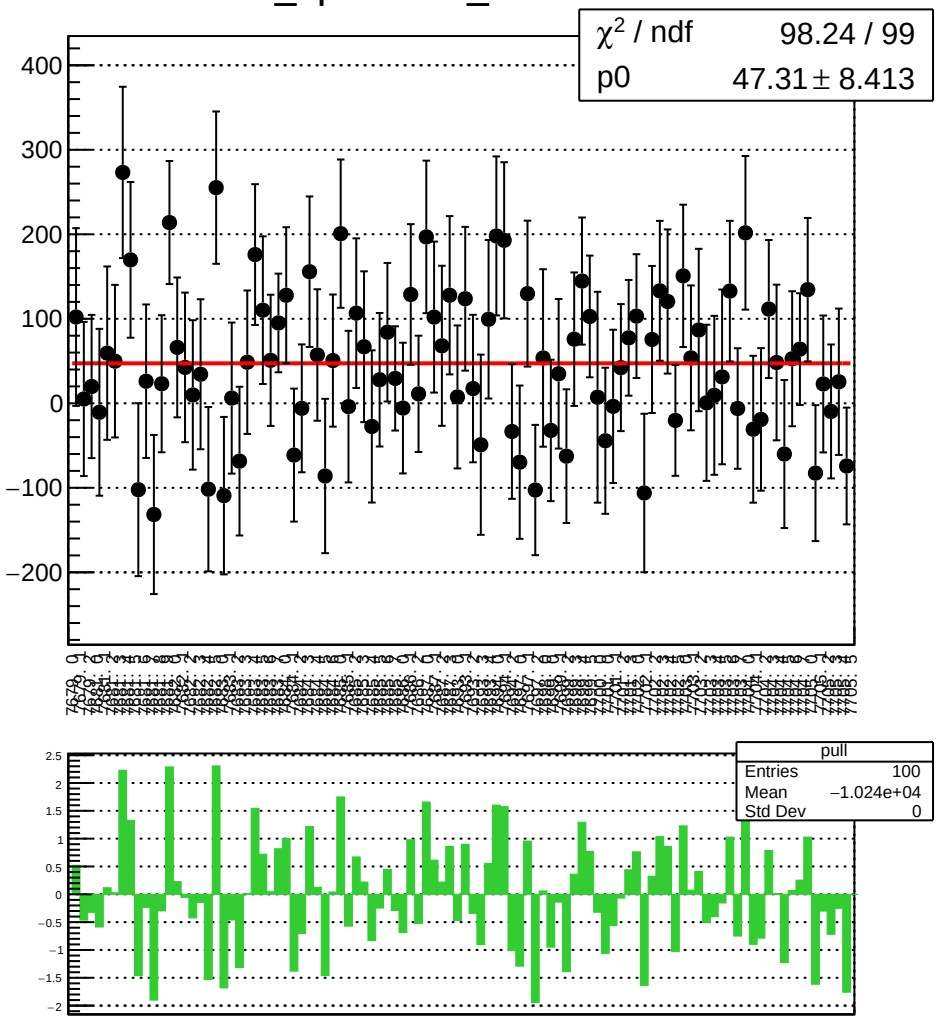

pull1D
Entries 100
Mean −1.834e−05
Std Dev 0.9848

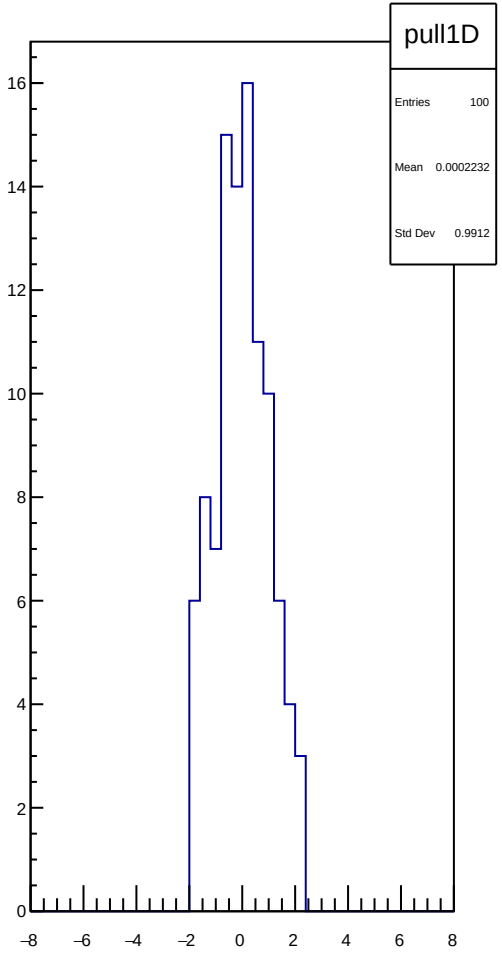

diff_bpm0l07X_rms vs run
χ² / ndf 1.284e+04 / 99
p0 9368 ± 6.774
12000
11500
11000
10500
10000
9500
9000
8500
8000
7500

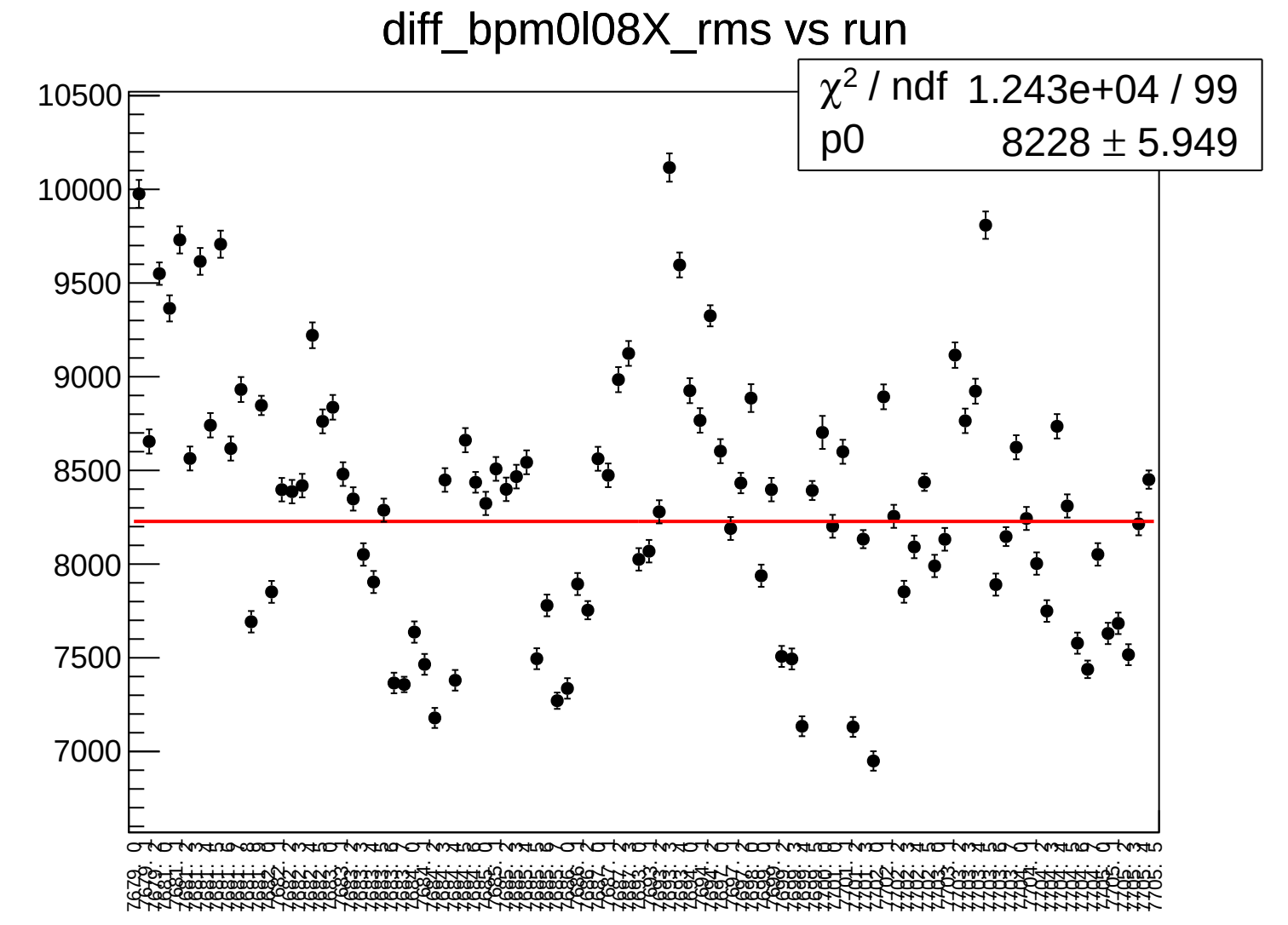

diff_bpm0l07Y_mean vs run
χ² / ndf 177.8 / 99
p0 −18.91 ± 0.8901
20
0
−20
−40
−60
pull
Entries 100
Mean 412.1
Std Dev 0
3
2
1
0
−1
−2
−3

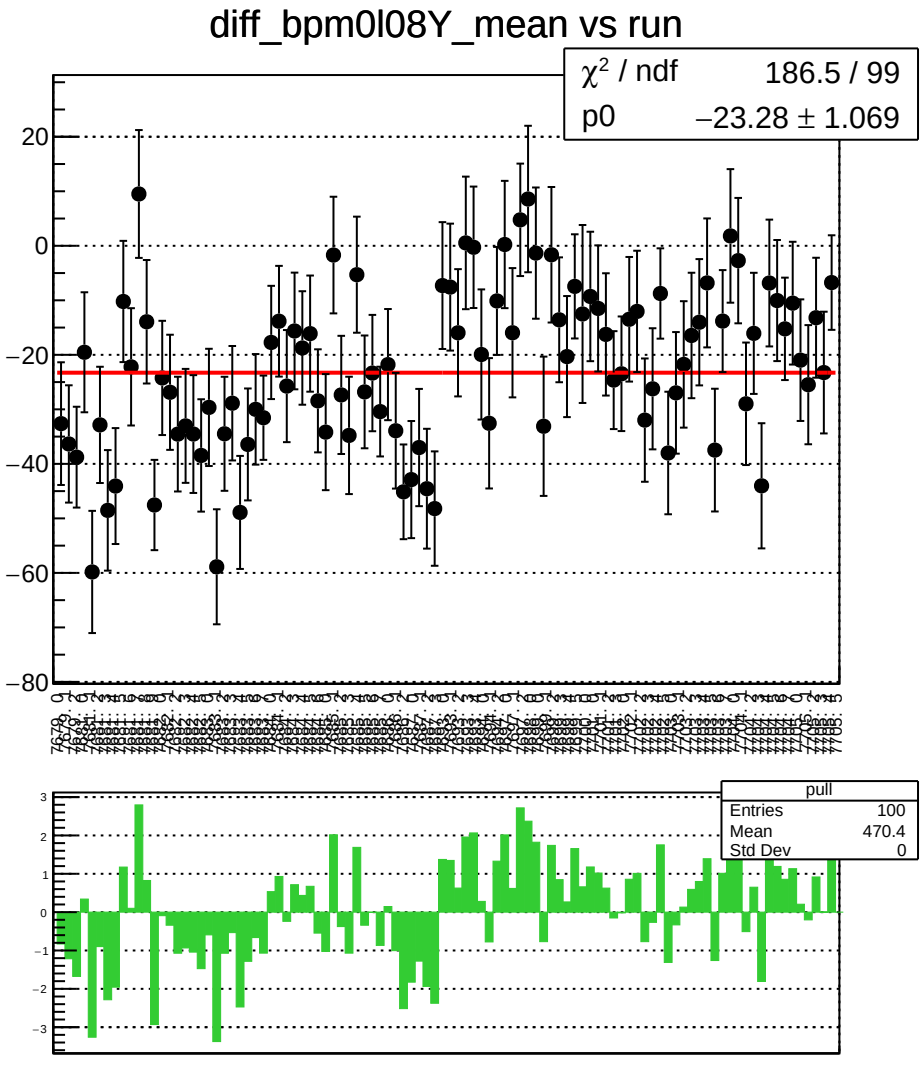

pull1D
Entries 100
Mean 0.04447
Std Dev 1.333
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

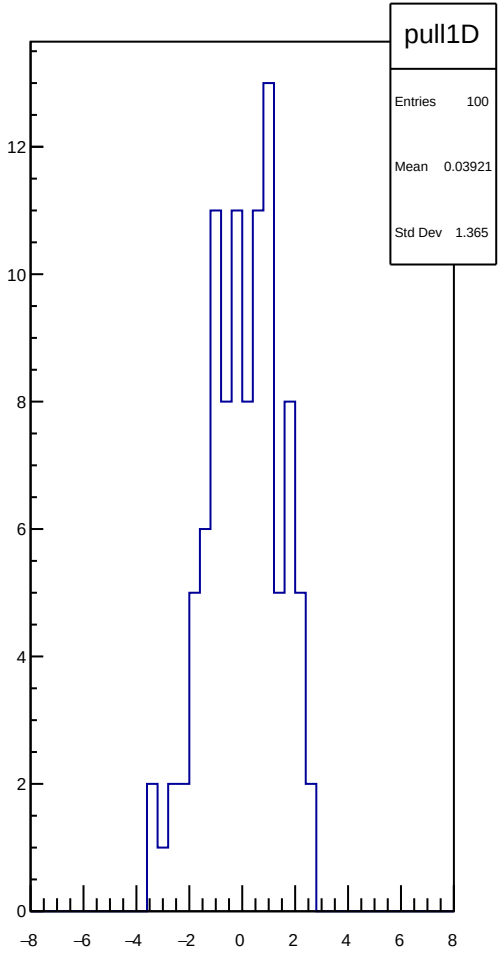

diff_bpm0l07Y_rms vs run
χ² / ndf 7053 / 99
p0 871.7 ± 0.6294
1050
1000
950
900
850
800

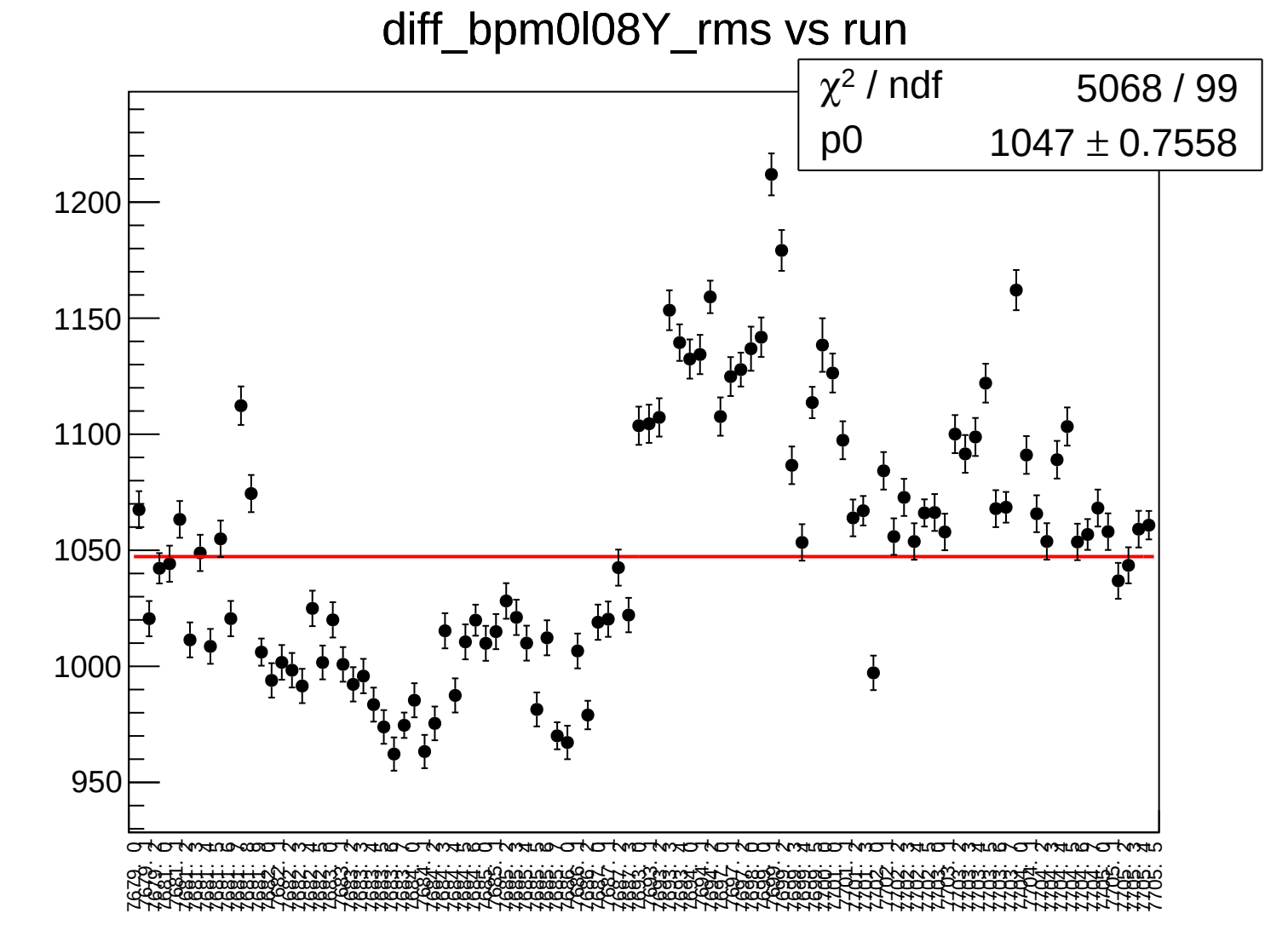

diff_bpm0l08X_mean vs run
χ^2 / ndf 98.24 / 99
p0 47.31 ± 8.413
pull
Entries 100
Mean −1.024e+04
Std Dev 0

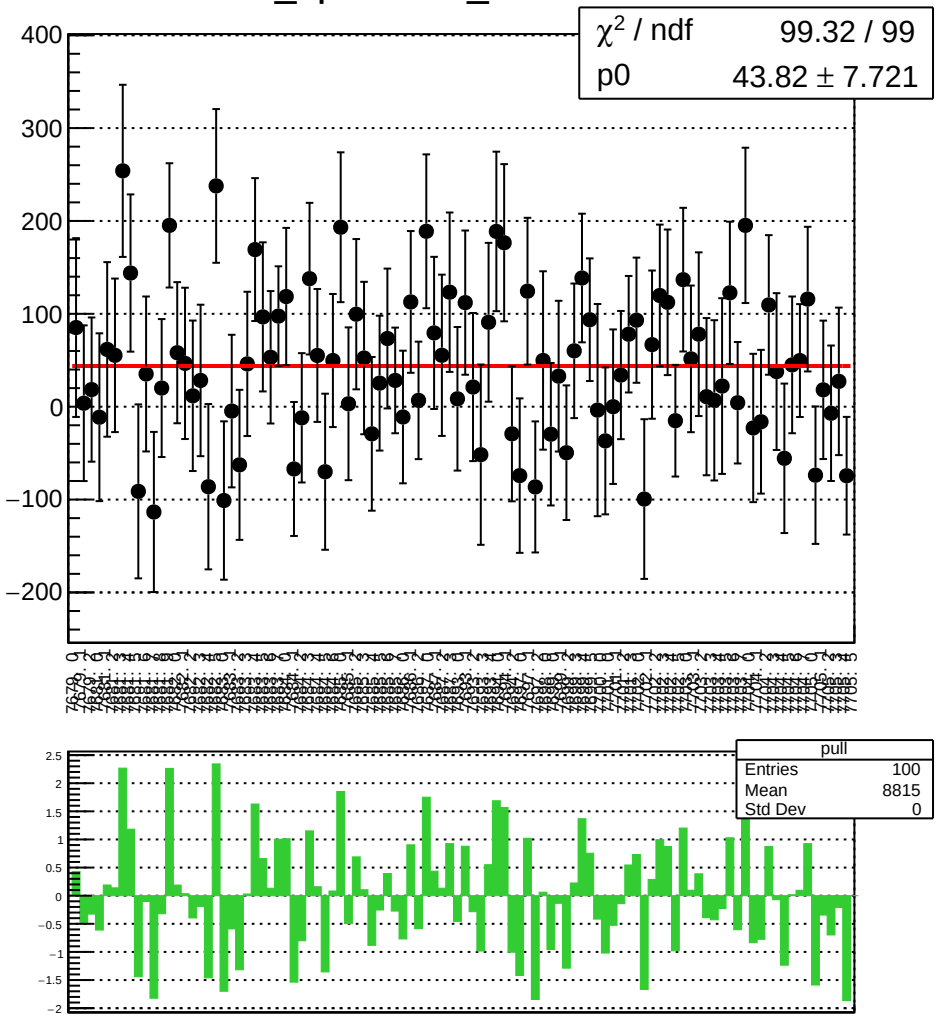

pull1D
Entries 100
Mean 0.0002232
Std Dev 0.9912

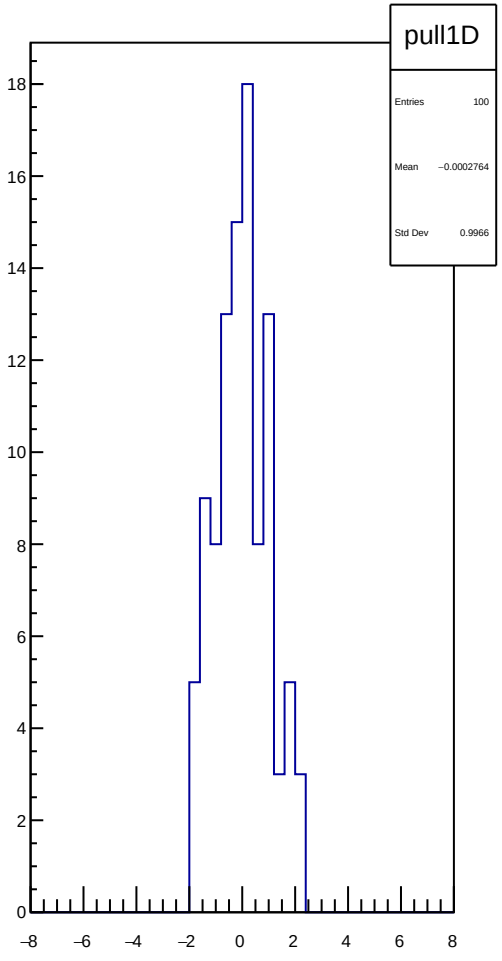

diff_bpm0l08X_rms vs run
χ^2 / ndf 1.243e+04 / 99
p0 8228 ± 5.949
10500
10000
9500
9000
8500
8000
7500
7000

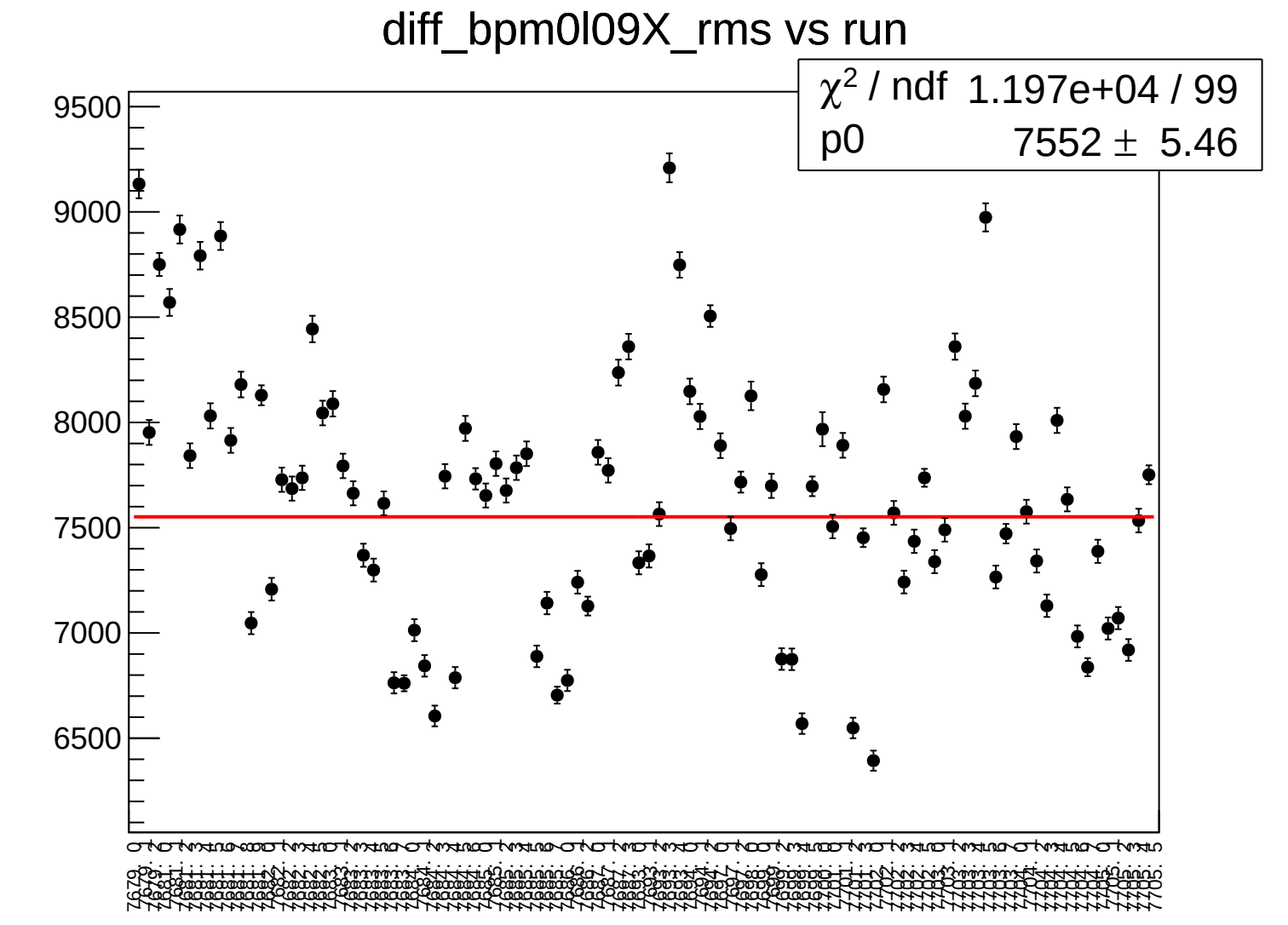

diff_bpm0l08Y_mean vs run
χ² / ndf 186.5 / 99
p0 −23.28 ± 1.069
pull
Entries 100
Mean 470.4
Std Dev 0

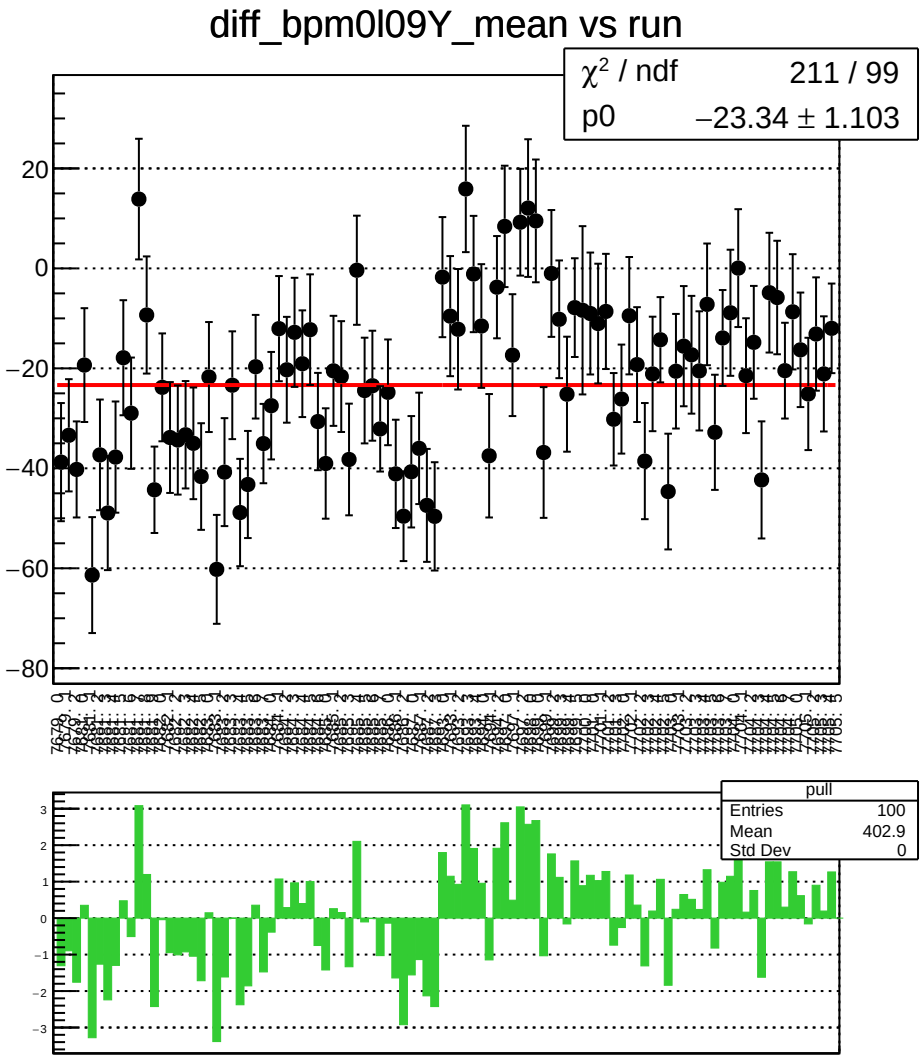

pull1D
Entries 100
Mean 0.03921
Std Dev 1.365

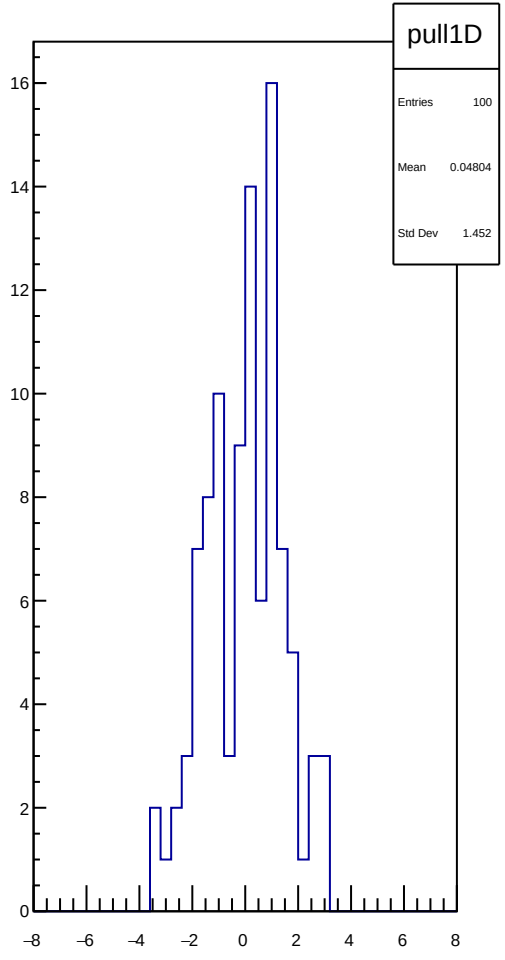

diff_bpm0l08Y_rms vs run
χ² / ndf 5068 / 99
p0 1047 ± 0.7558
1200
1150
1100
1050
1000
950

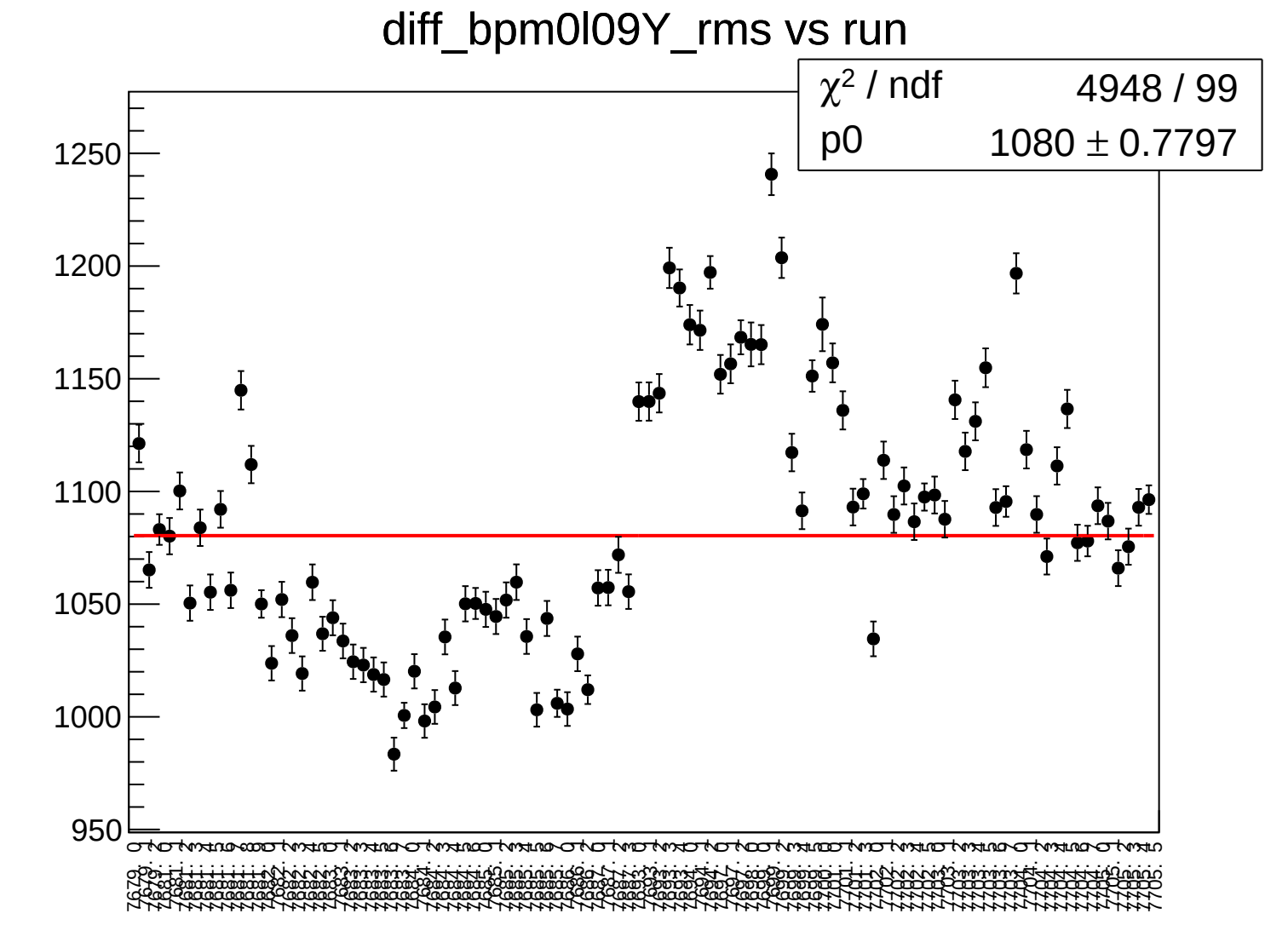

diff_bpm0l09X_mean vs run
χ² / ndf 99.32 / 99
p0 43.82 ± 7.721
pull
Entries 100
Mean 8815
Std Dev 0

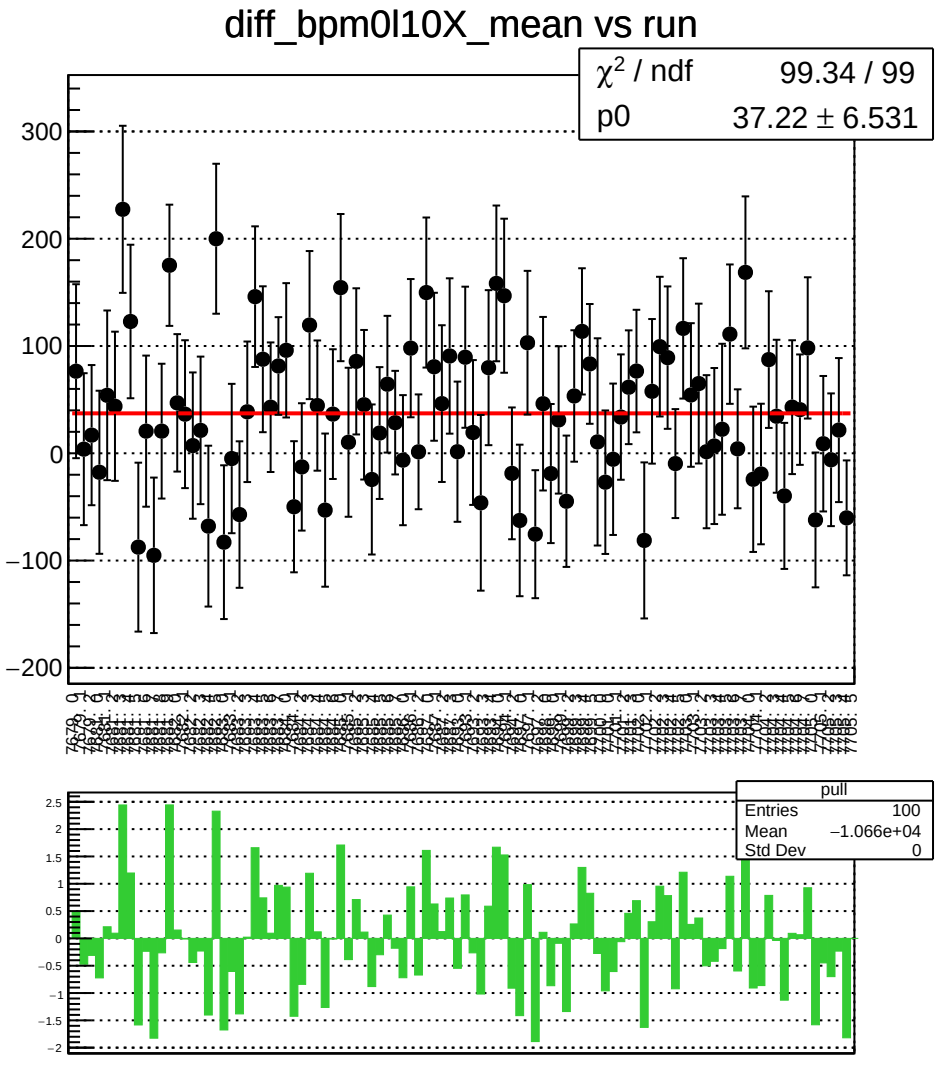

pull1D
Entries 100
Mean −0.0002764
Std Dev 0.9966

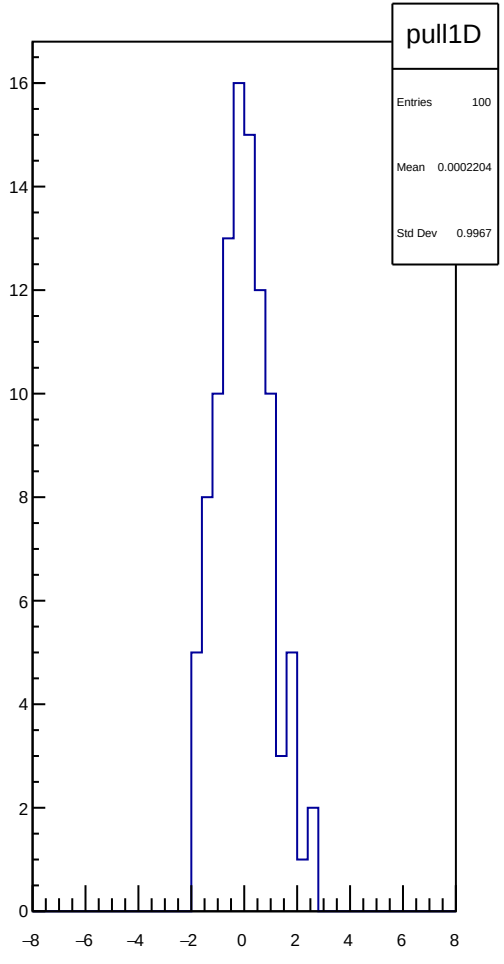

diff_bpm0l09X_rms vs run
χ² / ndf 1.197e+04 / 99
p0 7552 ± 5.46
9500
9000
8500
8000
7500
7000
6500

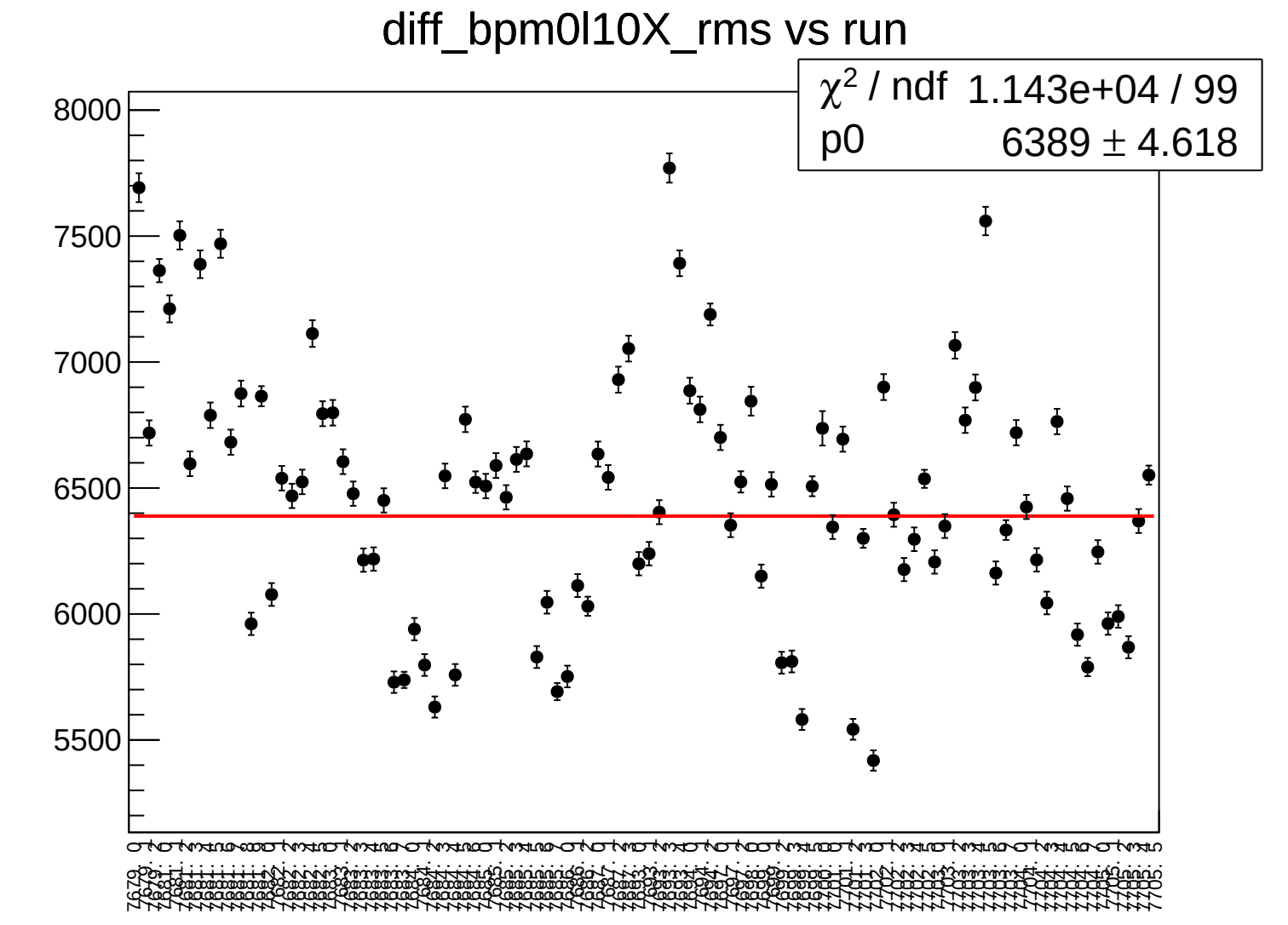

diff_bpm0l09Y_mean vs run
χ² / ndf 211 / 99
p0 −23.34 ± 1.103
20
0
−20
−40
−60
−80
pull
Entries 100
Mean 402.9
Std Dev 0
3
2
1
0
−1
−2
−3

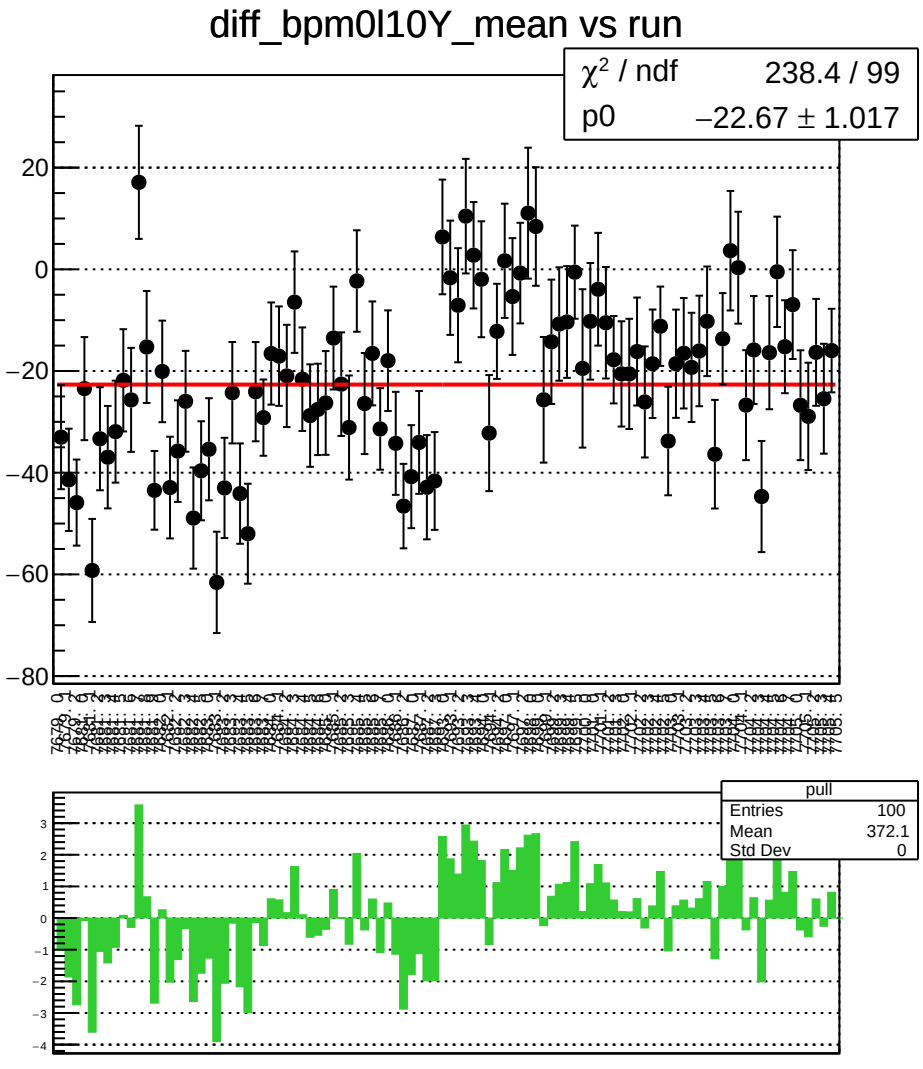

pull1D
Entries 100
Mean 0.04804
Std Dev 1.452
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

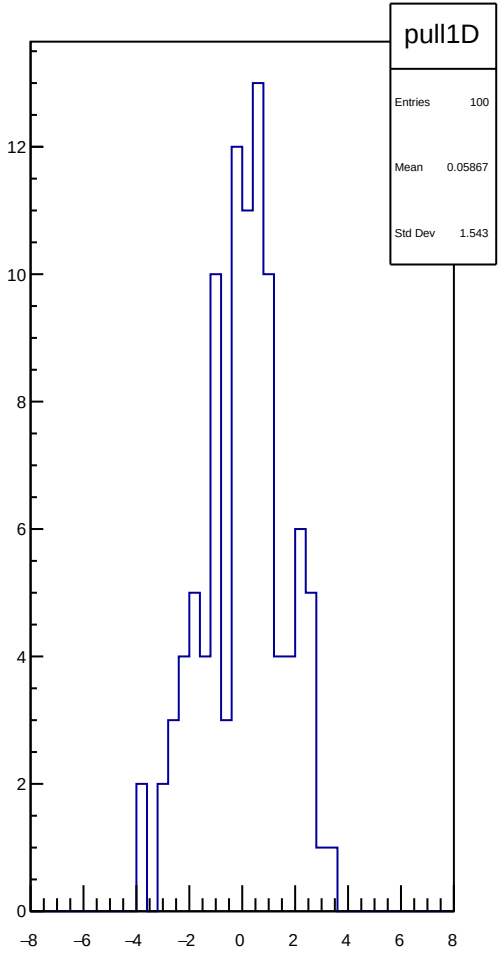

diff_bpm0l09Y_rms vs run
χ² / ndf 4948 / 99
p0 1080 ± 0.7797
1250
1200
1150
1100
1050
1000
950

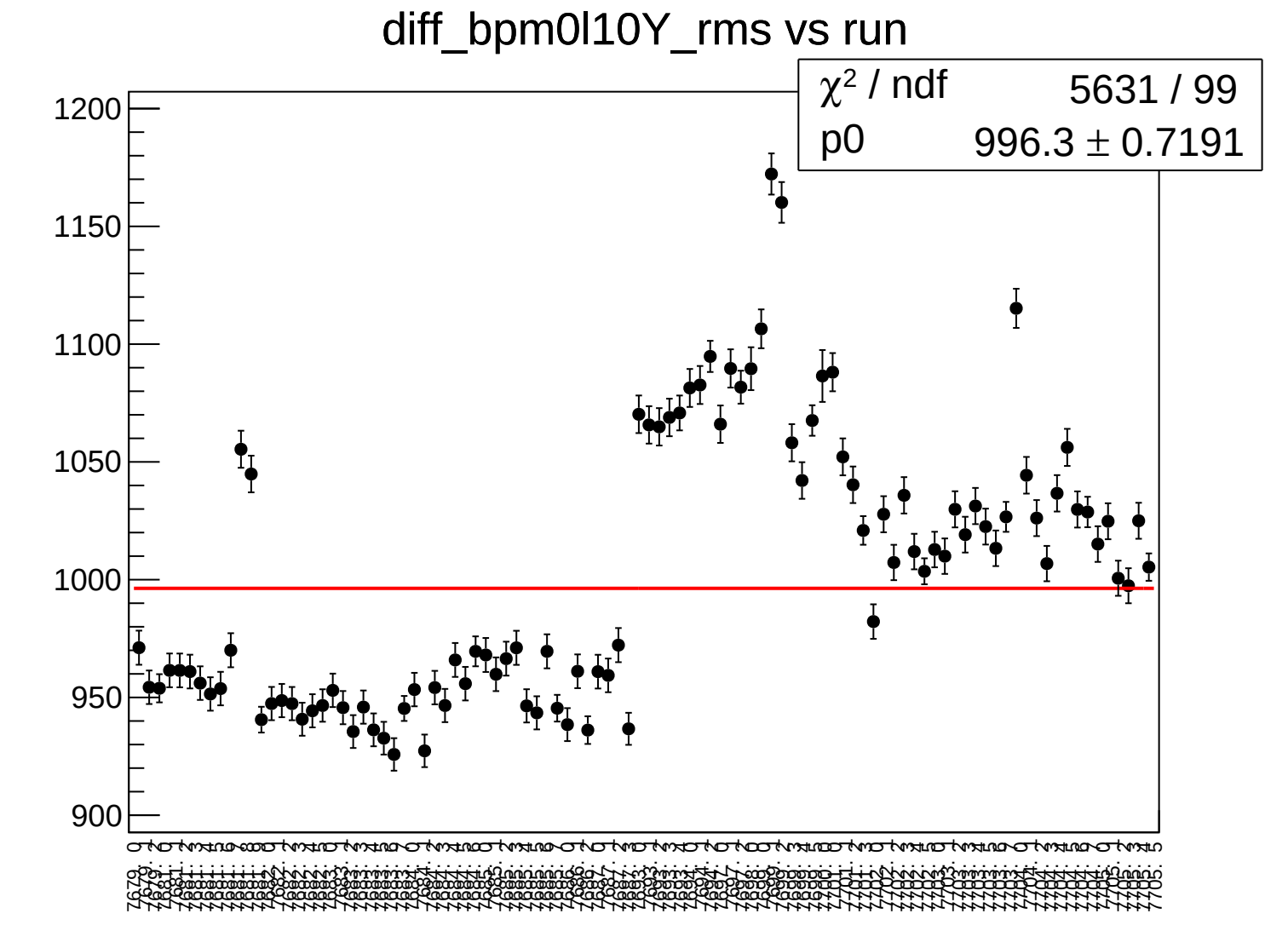

diff_bpm0l10X_mean vs run
χ² / ndf 99.34 / 99
p0 37.22 ± 6.531
300
200
100
0
−100
−200
pull
Entries 100
Mean −1.066e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

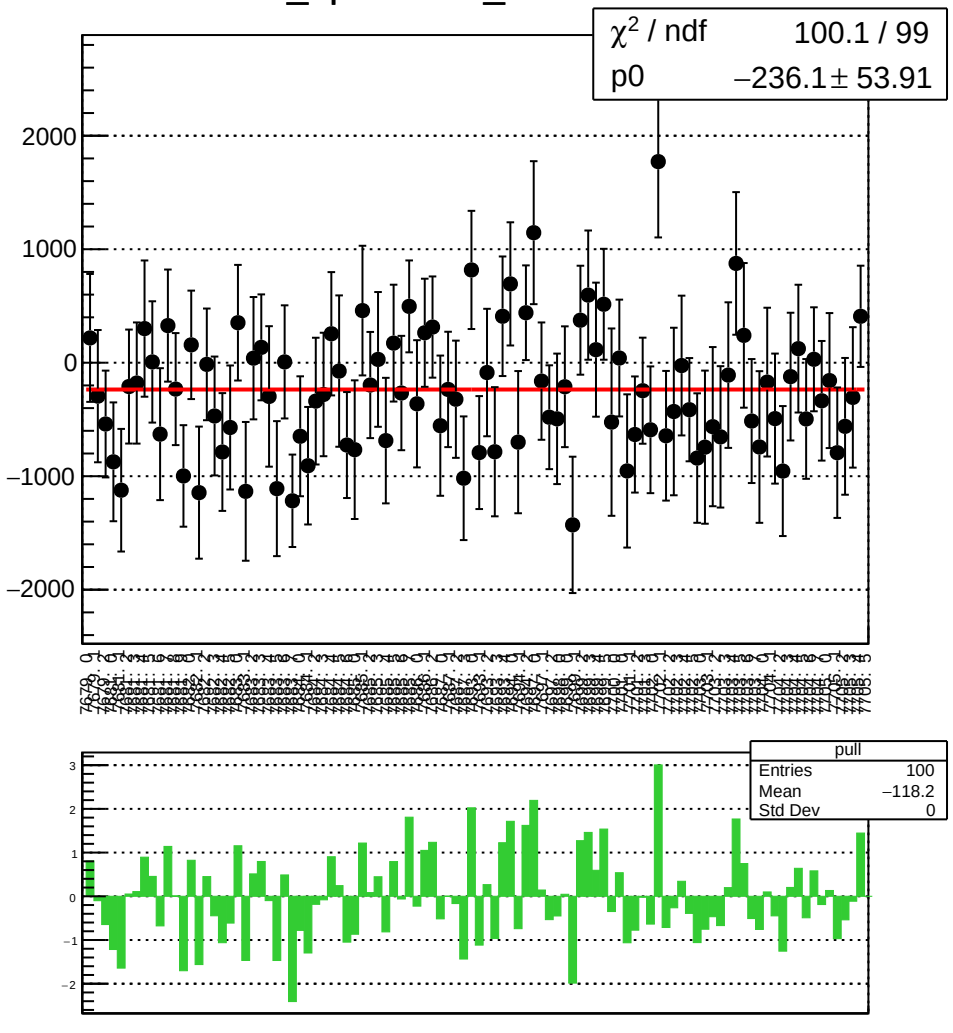

pull1D
Entries 100
Mean 0.0002204
Std Dev 0.9967
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

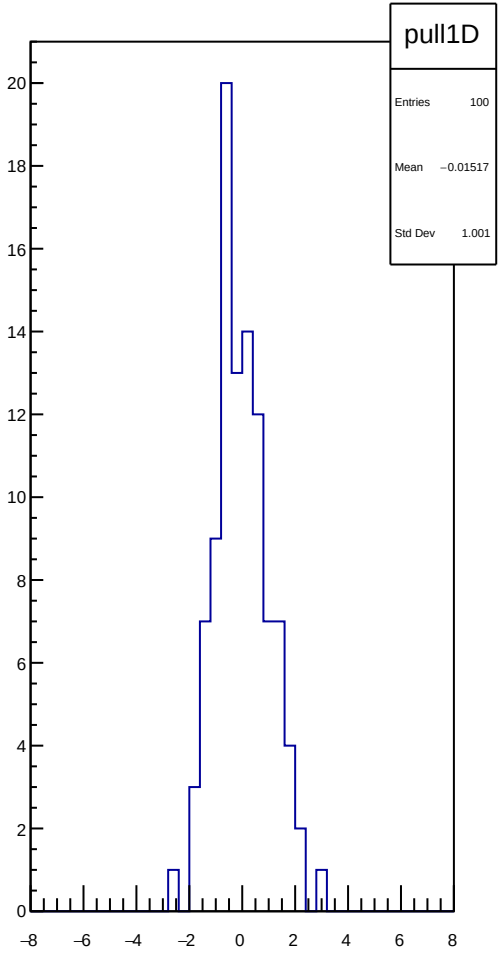

diff_bpm0l10X_rms vs run
χ² / ndf 1.143e+04 / 99
p0 6389 ± 4.618
8000
7500
7000
6500
6000
5500

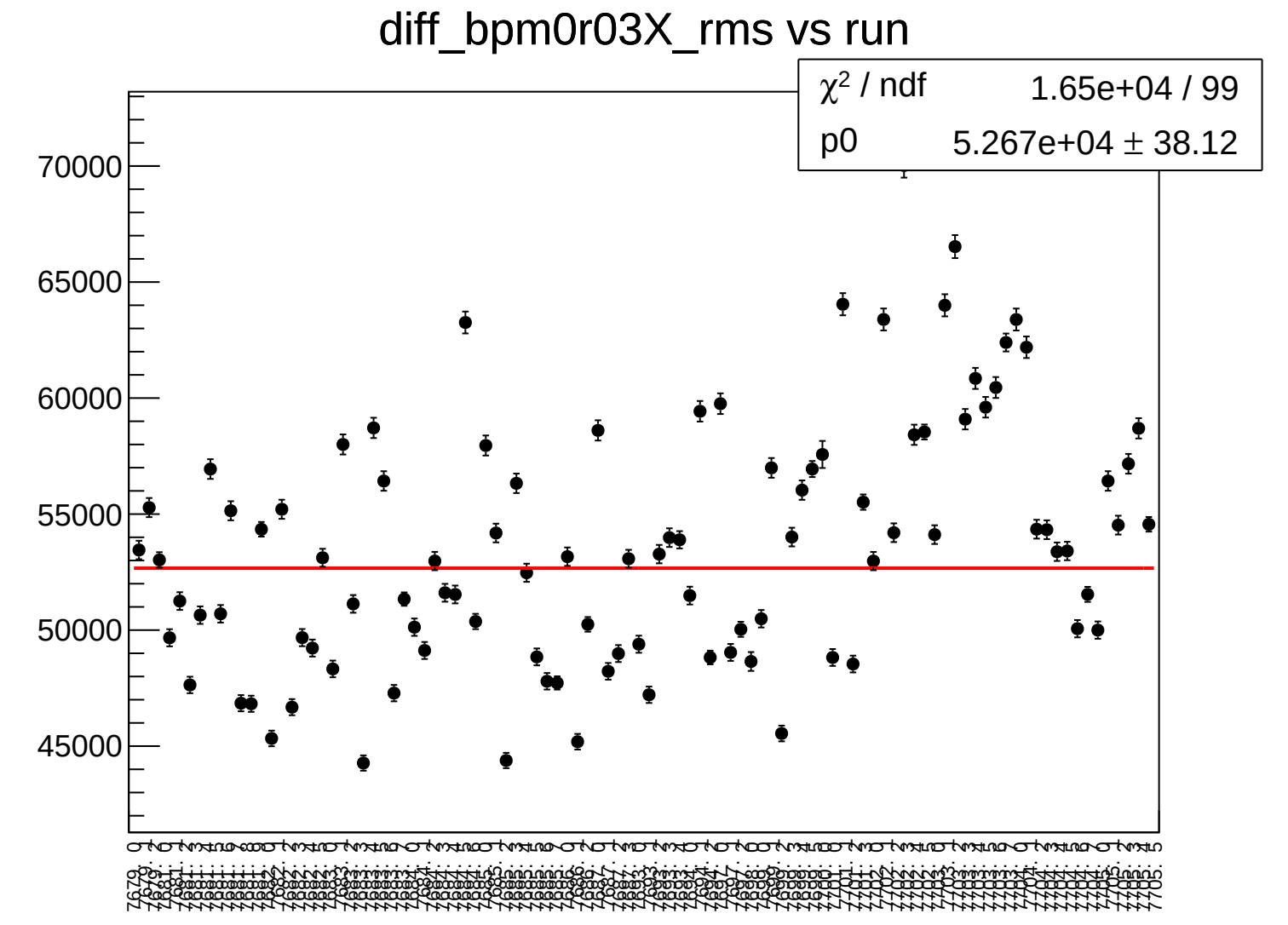

diff_bpm0l10Y_mean vs run
χ² / ndf 238.4 / 99
p0 −22.67 ± 1.017
20
0
−20
−40
−60
−80
pull
Entries 100
Mean 372.1
Std Dev 0
3
2
1
0
−1
−2
−3
−4

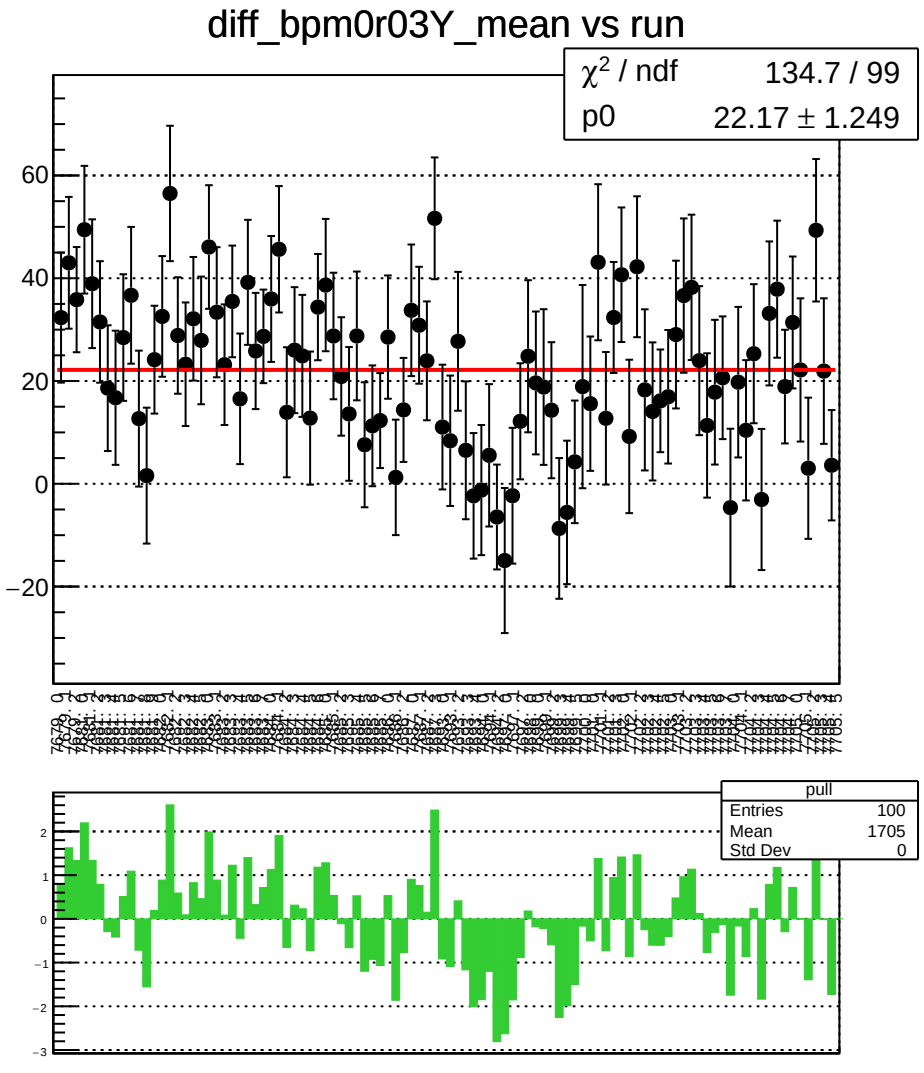

pull1D
Entries 100
Mean 0.05867
Std Dev 1.543
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

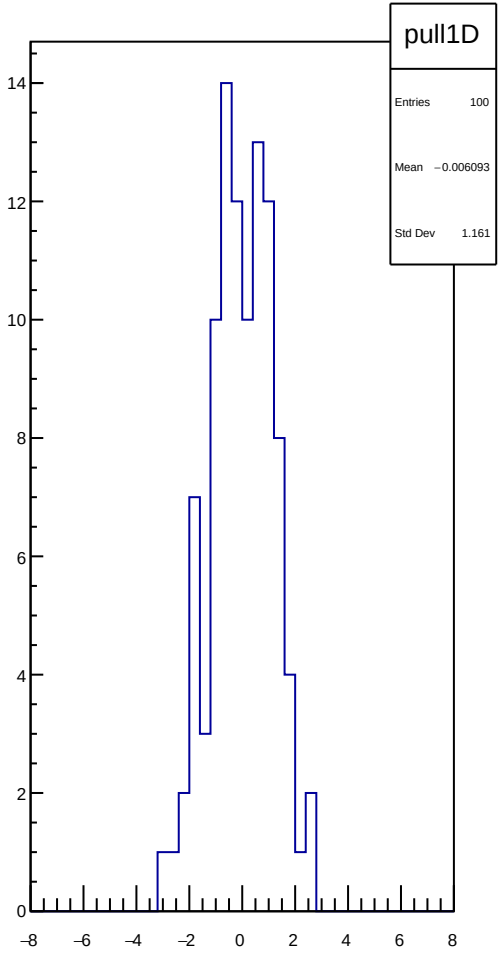

diff_bpm0l10Y_rms vs run
χ² / ndf 5631 / 99
p0 996.3 ± 0.7191
1200
1150
1100
1050
1000
950
900

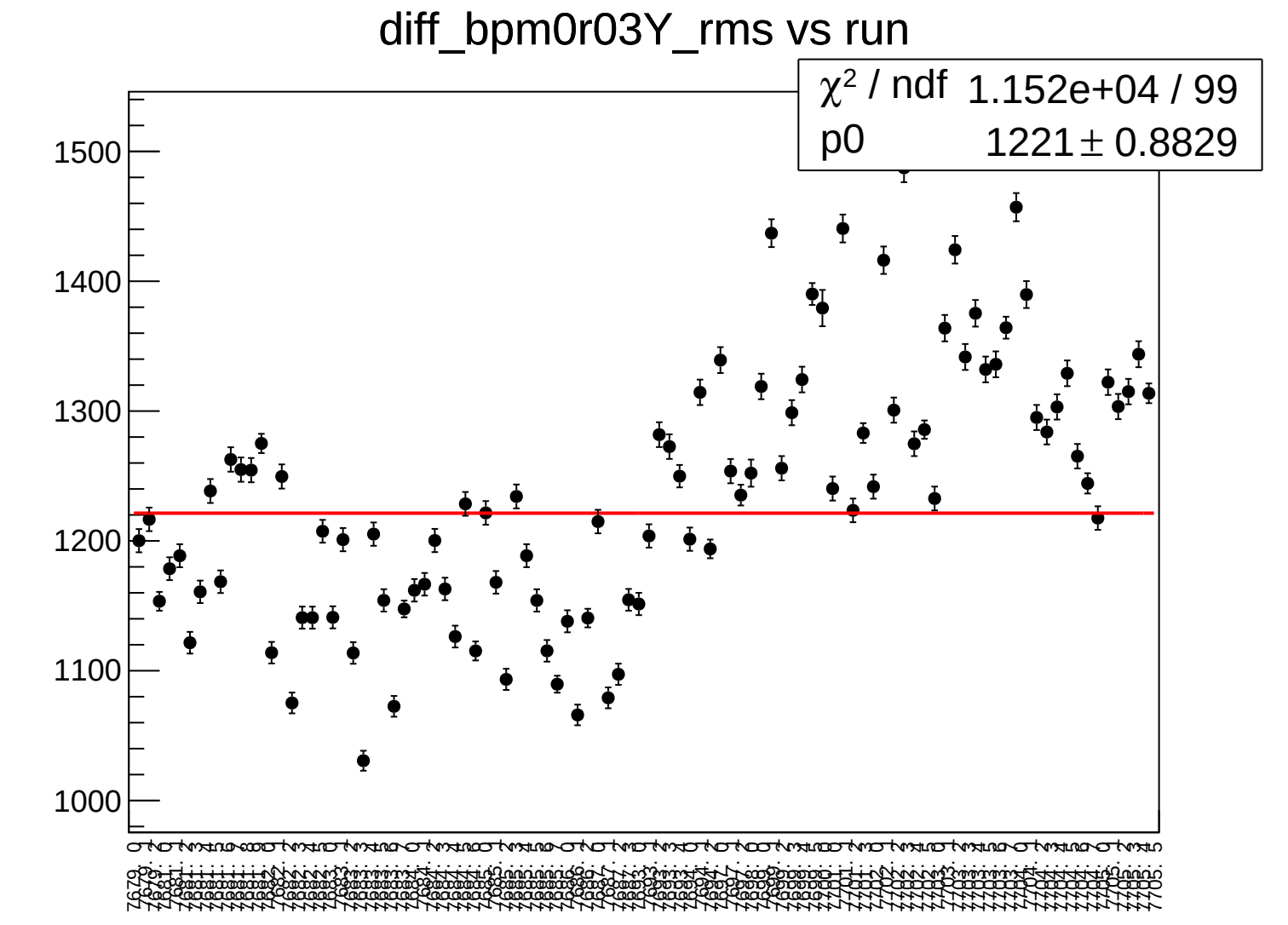

diff_bpm0r03X_mean vs run
χ^2 / ndf 100.1 / 99
p0 −236.1 ± 53.91
2000
1000
0
−1000
−2000
pull
Entries 100
Mean −118.2
Std Dev 0
3
2
1
0
−1
−2

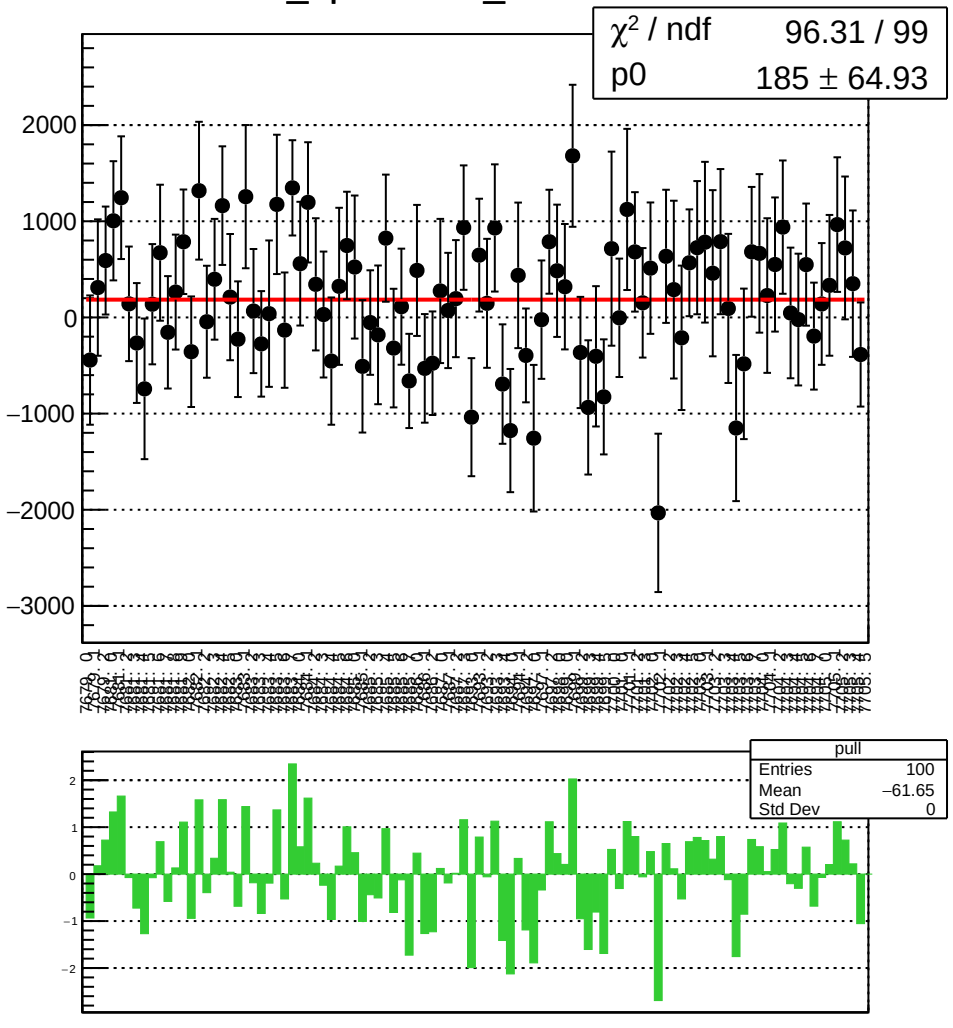

pull1D
Entries 100
Mean −0.01517
Std Dev 1.001
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

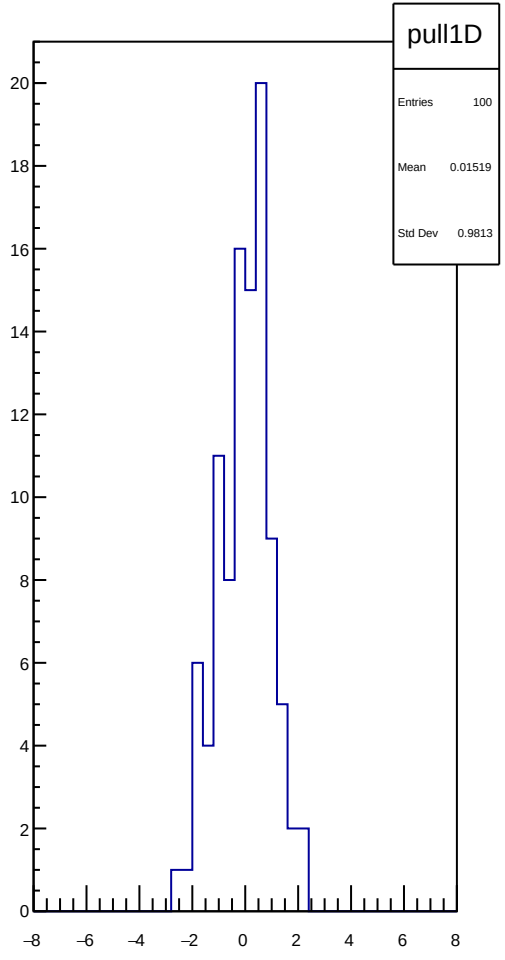

diff_bpm0r03X_rms vs run
χ² / ndf 1.65e+04 / 99
p0 5.267e+04 ± 38.12
70000
65000
60000
55000
50000
45000

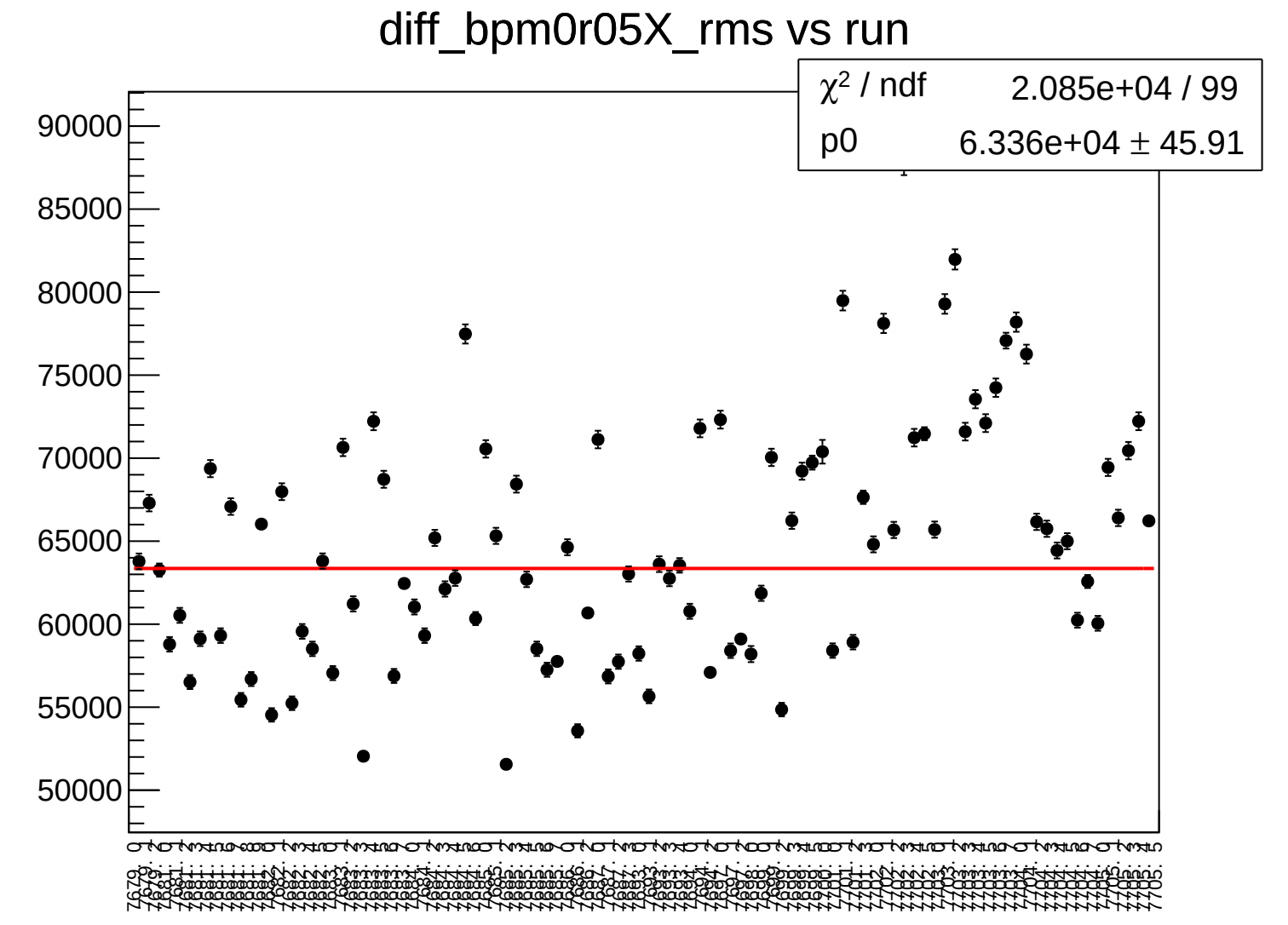

diff_bpm0r03Y_mean vs run
χ² / ndf 134.7 / 99
p0 22.17 ± 1.249
60
40
20
0
−20
pull
Entries 100
Mean 1705
Std Dev 0
2
1
0
−1
−2
−3

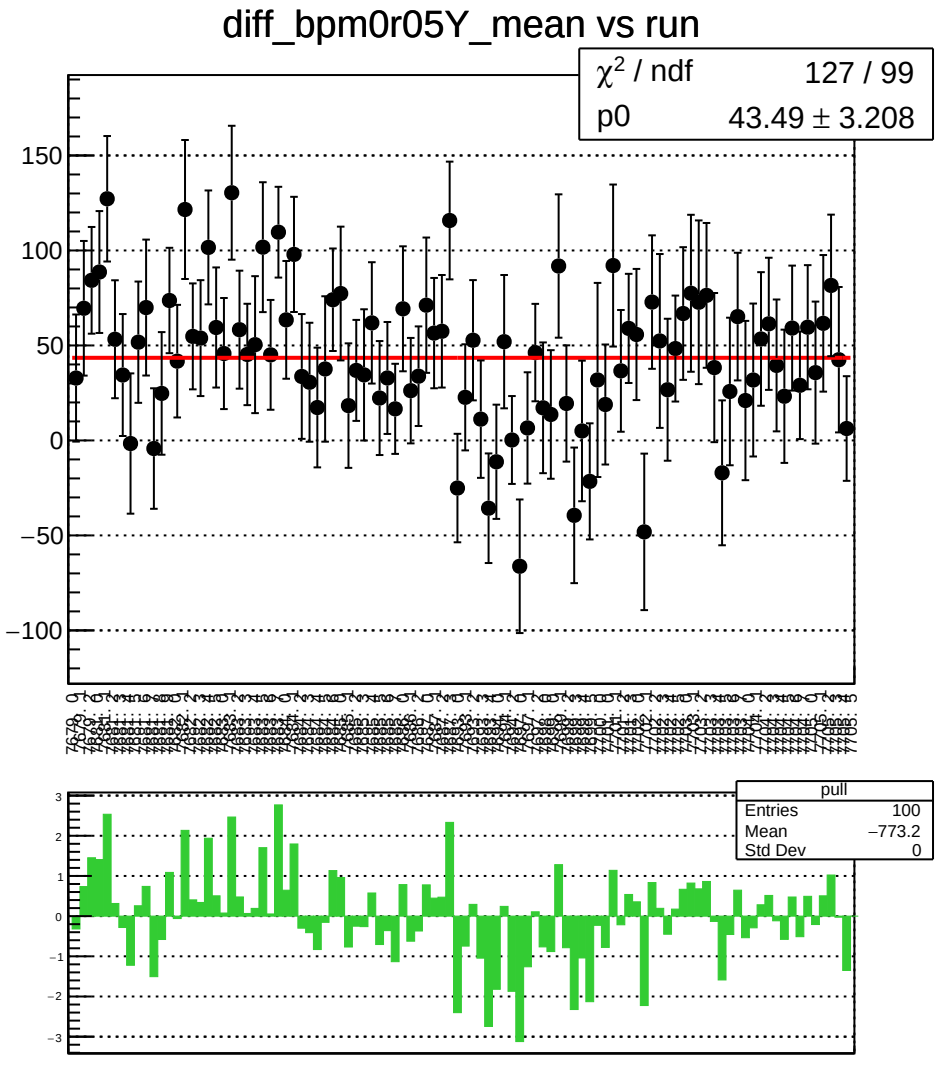

pull1D
Entries 100
Mean −0.006093
Std Dev 1.161
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

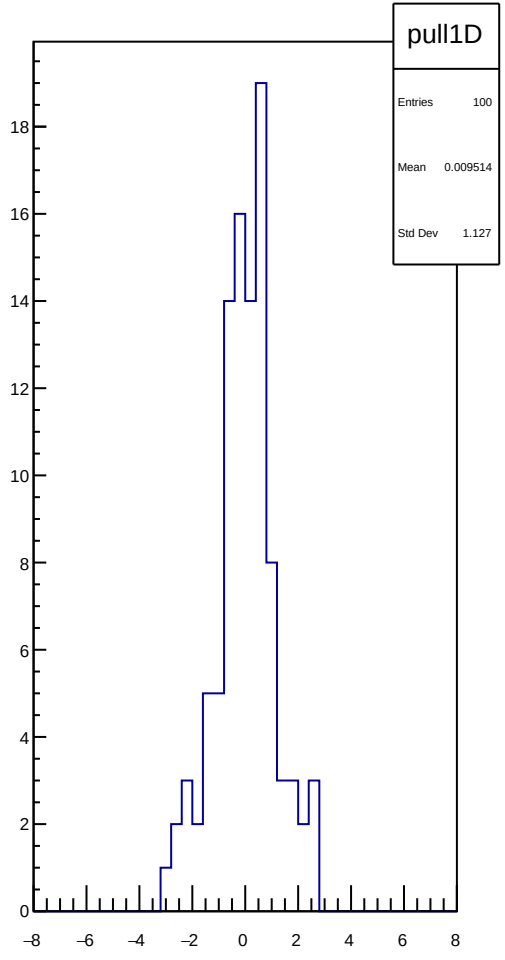

diff_bpm0r03Y_rms vs run
χ² / ndf 1.152e+04 / 99
p0 1221 ± 0.8829
1500
1400
1300
1200
1100
1000

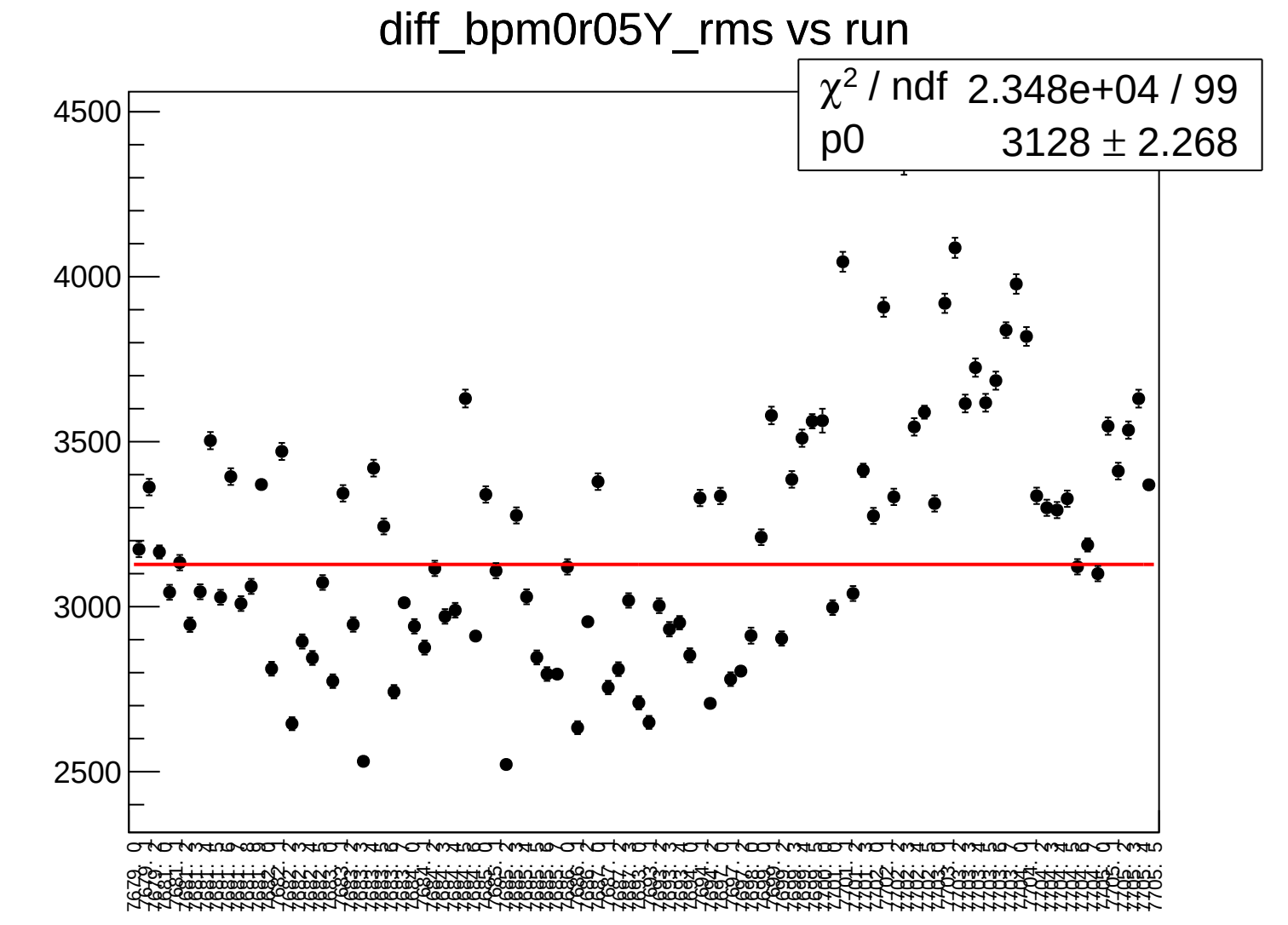

diff_bpm0r05X_mean vs run
χ² / ndf 96.31 / 99
p0 185 ± 64.93
2000
1000
0
−1000
−2000
−3000
pull
Entries 100
Mean −61.65
Std Dev 0
2
1
0
−1
−2

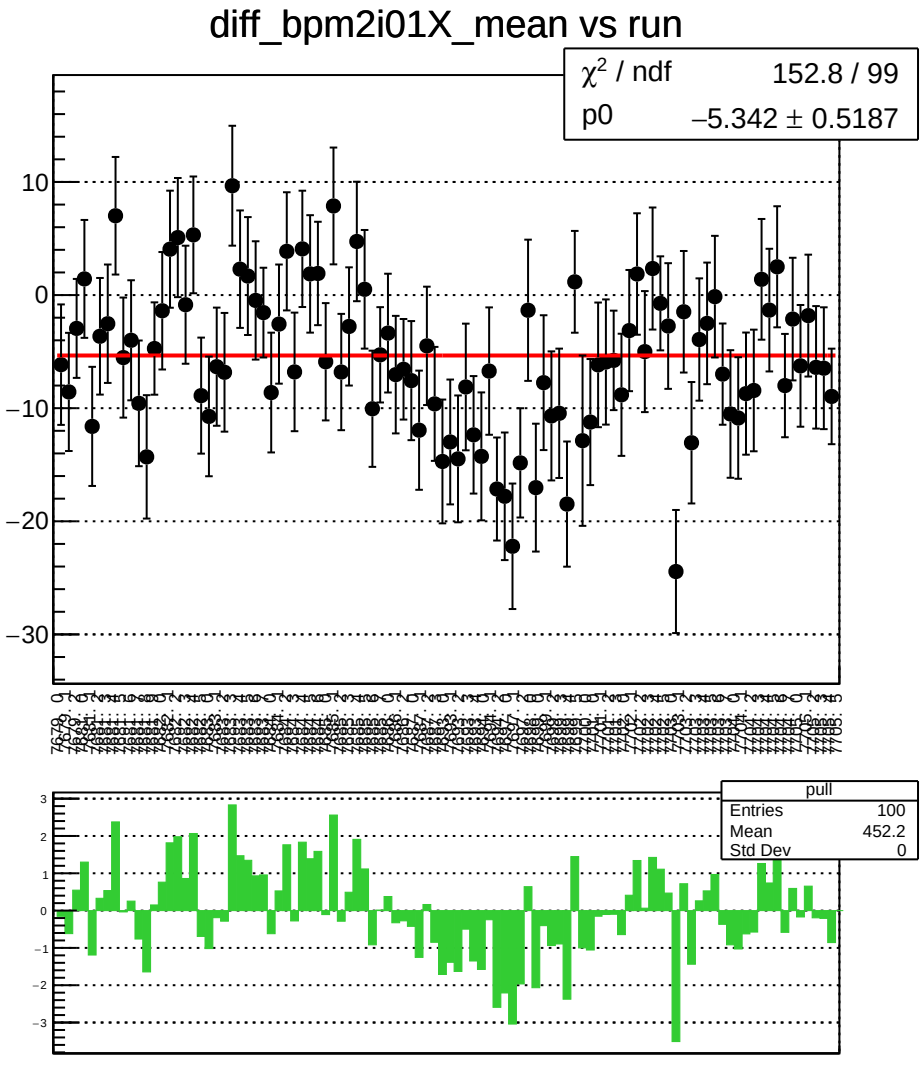

pull1D
Entries 100
Mean 0.01519
Std Dev 0.9813
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

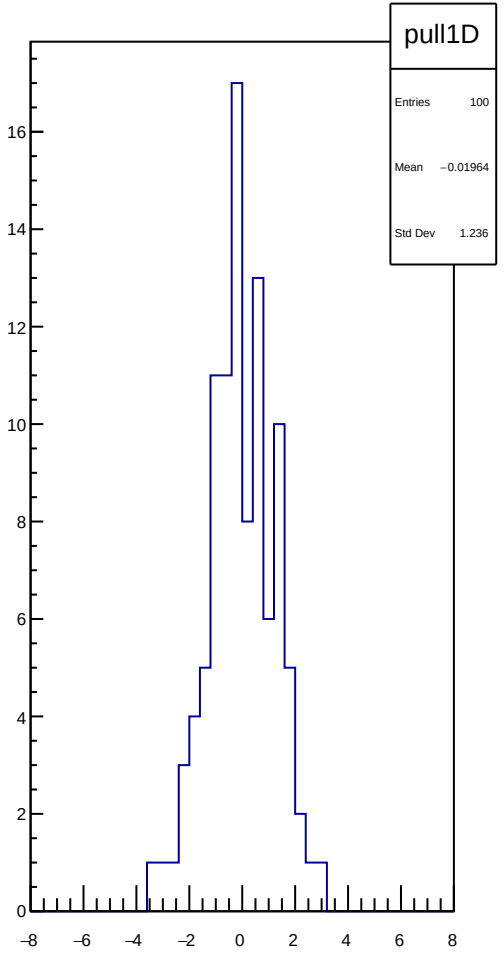

diff_bpm0r05X_rms vs run
χ^2 / ndf 2.085e+04 / 99
p0 6.336e+04 ± 45.91
90000
85000
80000
75000
70000
65000
60000
55000
50000

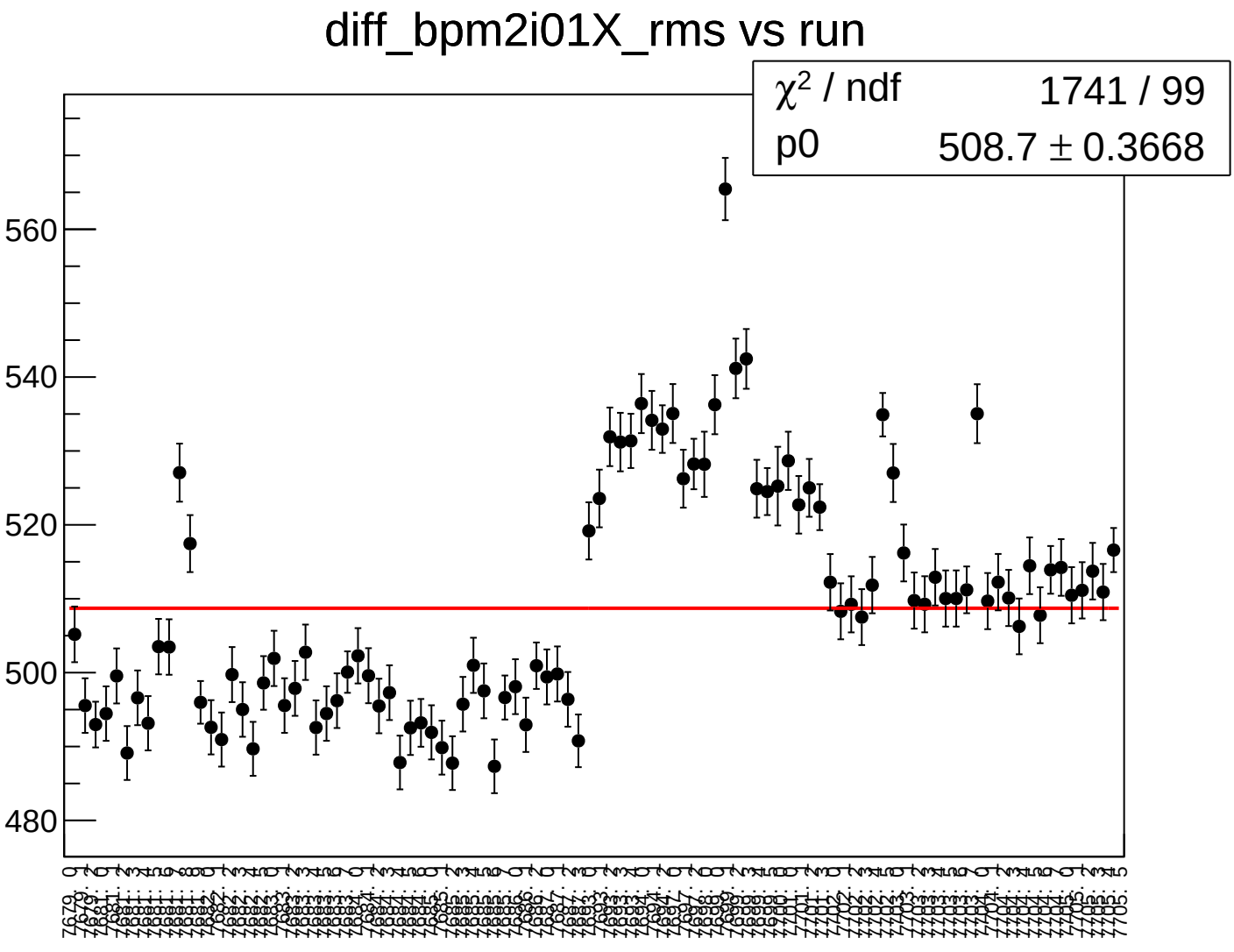

diff_bpm0r05Y_mean vs run
χ² / ndf 127 / 99
p0 43.49 ± 3.208
150
100
50
0
−50
−100
pull
Entries 100
Mean −773.2
Std Dev 0
3
2
1
0
−1
−2
−3

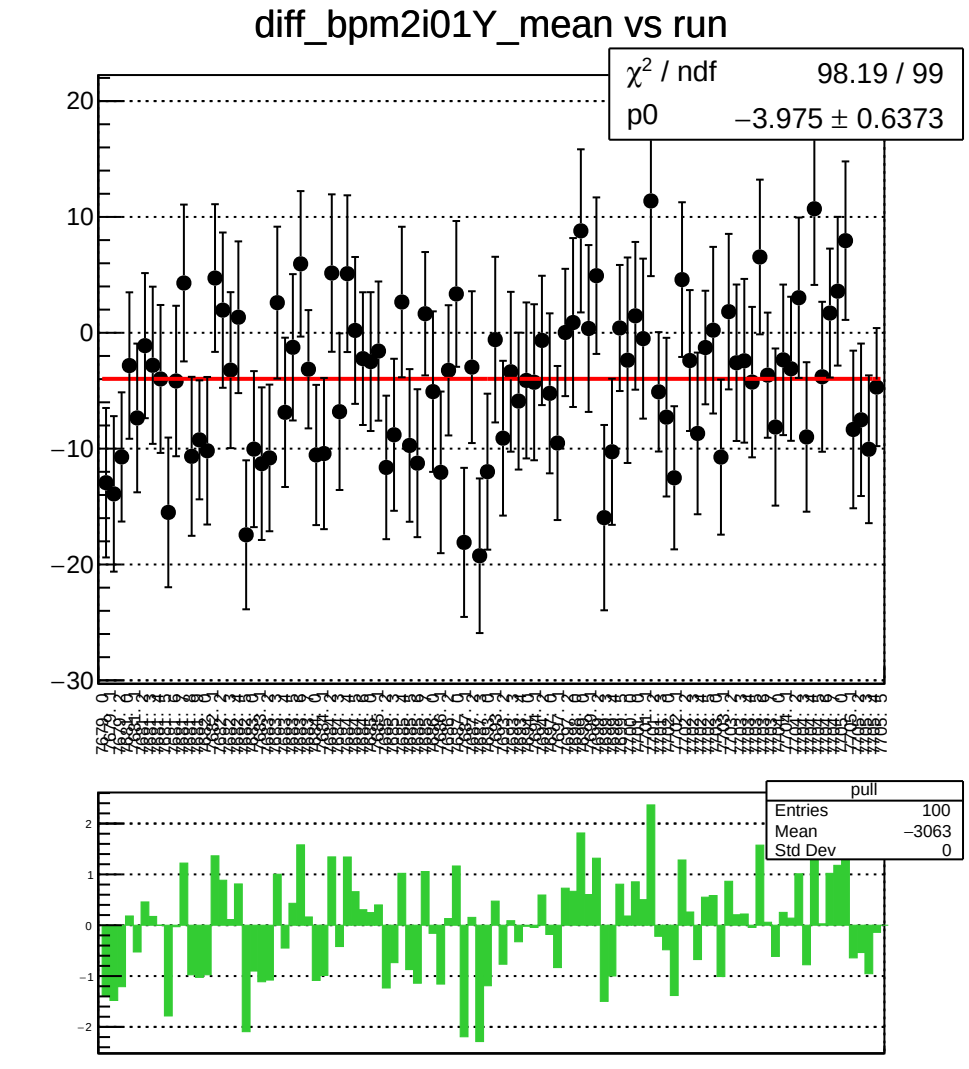

pull1D
Entries 100
Mean 0.009514
Std Dev 1.127
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

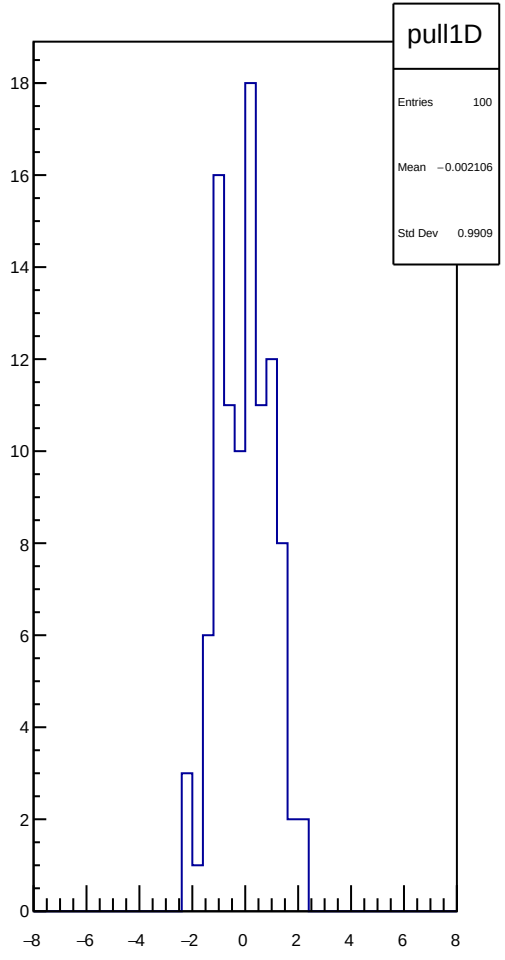

diff_bpm0r05Y_rms vs run
χ² / ndf 2.348e+04 / 99
p0 3128 ± 2.268
4500
4000
3500
3000
2500

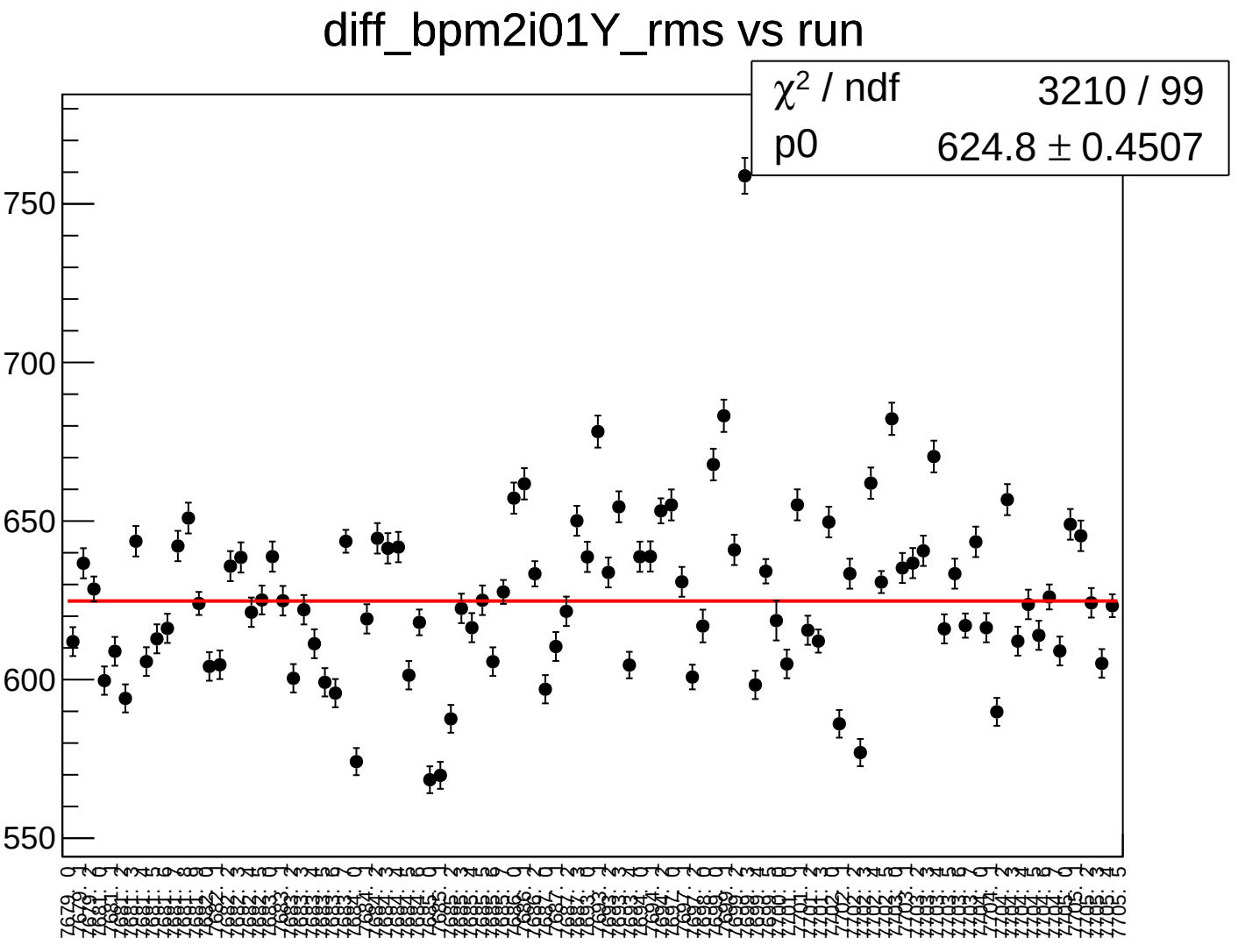

diff_bpm2i01X_mean vs run
χ² / ndf 152.8 / 99
p0 −5.342 ± 0.5187
10
0
−10
−20
−30
pull
Entries 100
Mean 452.2
Std Dev 0
3
2
1
0
−1
−2
−3

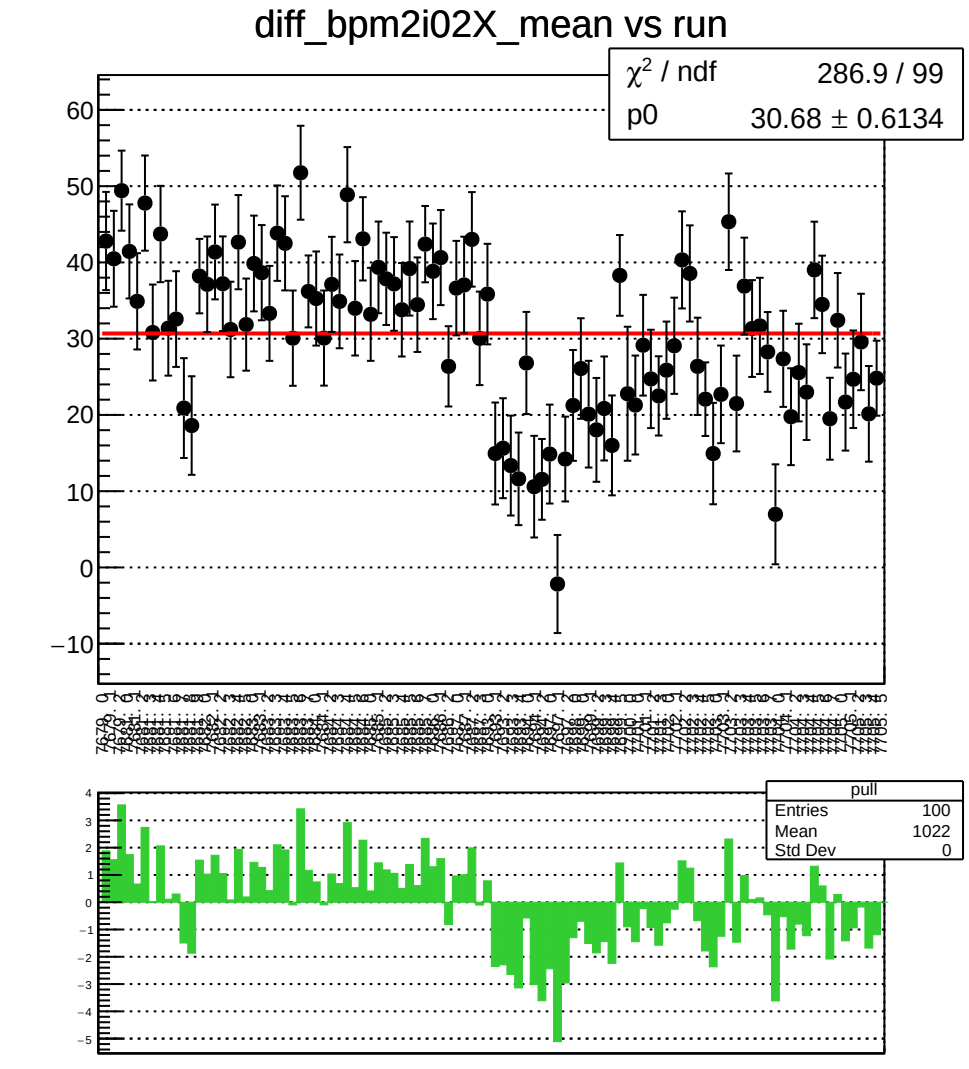

pull1D
Entries 100
Mean −0.01964
Std Dev 1.236
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

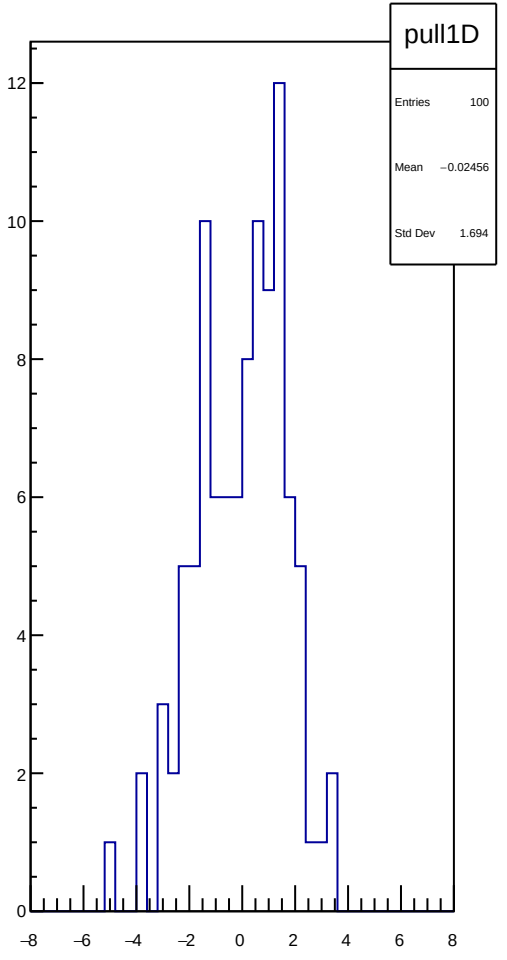

diff_bpm2i01X_rms vs run
χ² / ndf 1741 / 99
p0 508.7 ± 0.3668
560
540
520
500
480

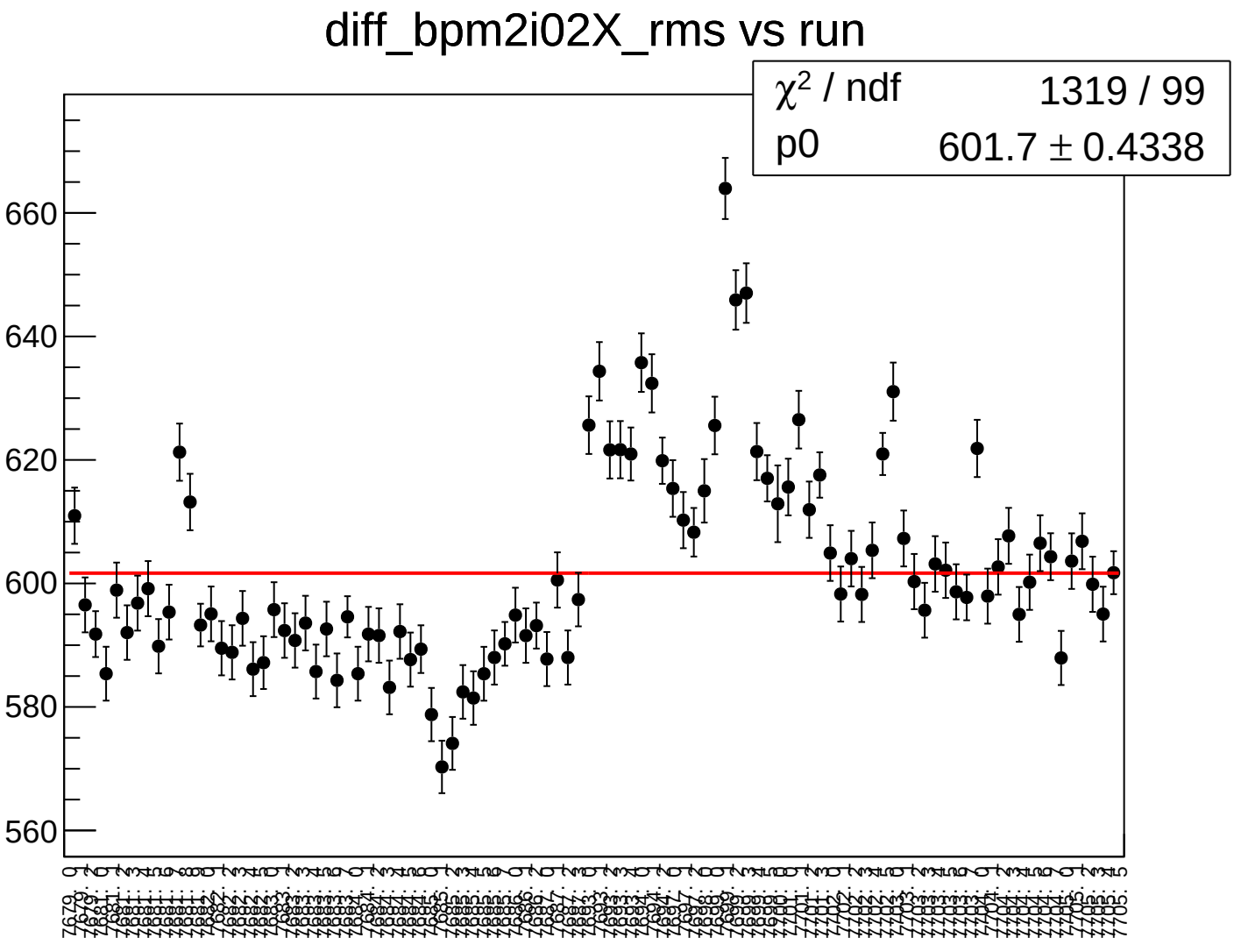

diff_bpm2i01Y_mean vs run
χ² / ndf 98.19 / 99
p0 −3.975 ± 0.6373
pull
Entries 100
Mean −3063
Std Dev 0

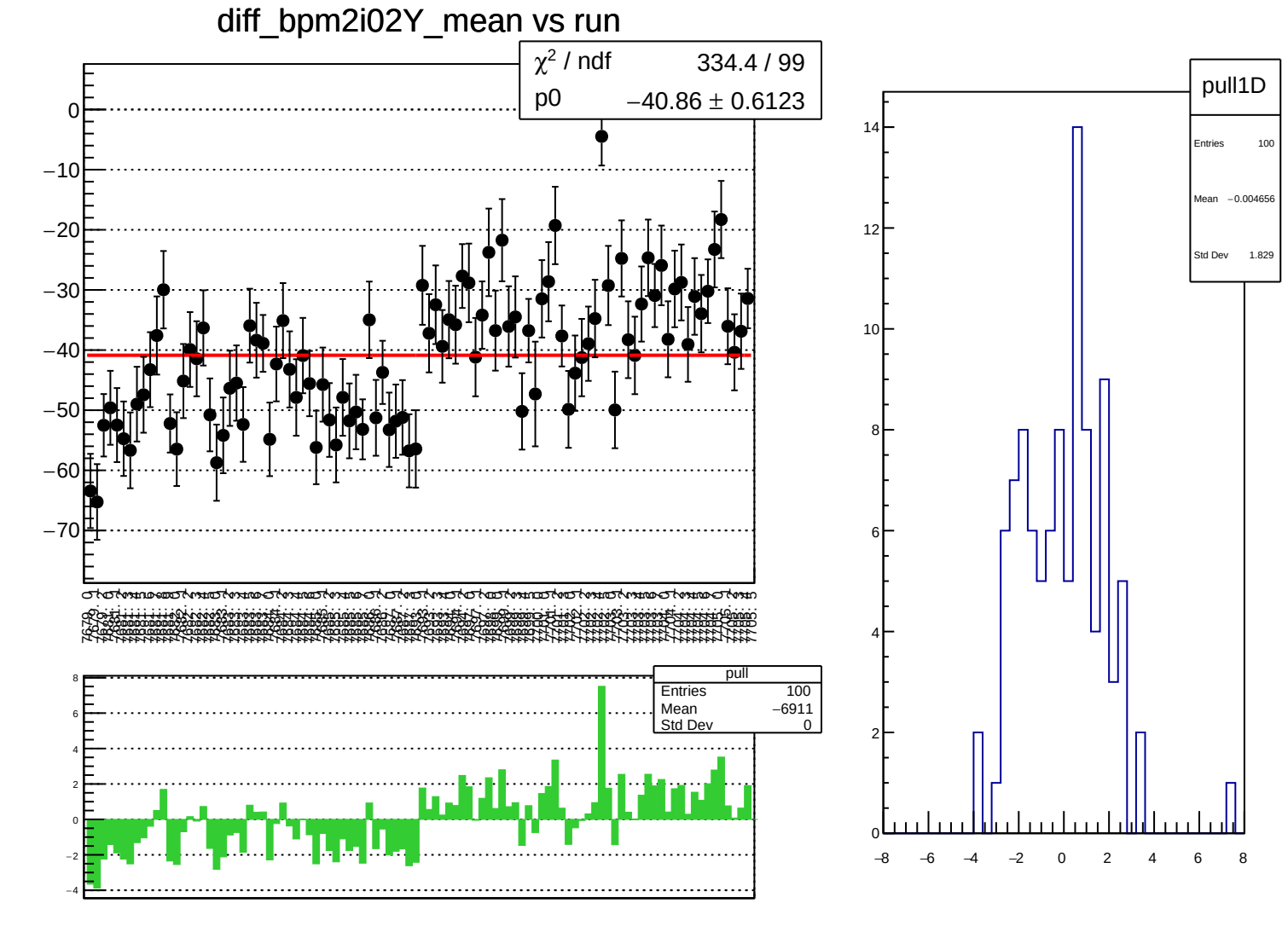

pull1D
Entries 100
Mean −0.002106
Std Dev 0.9909

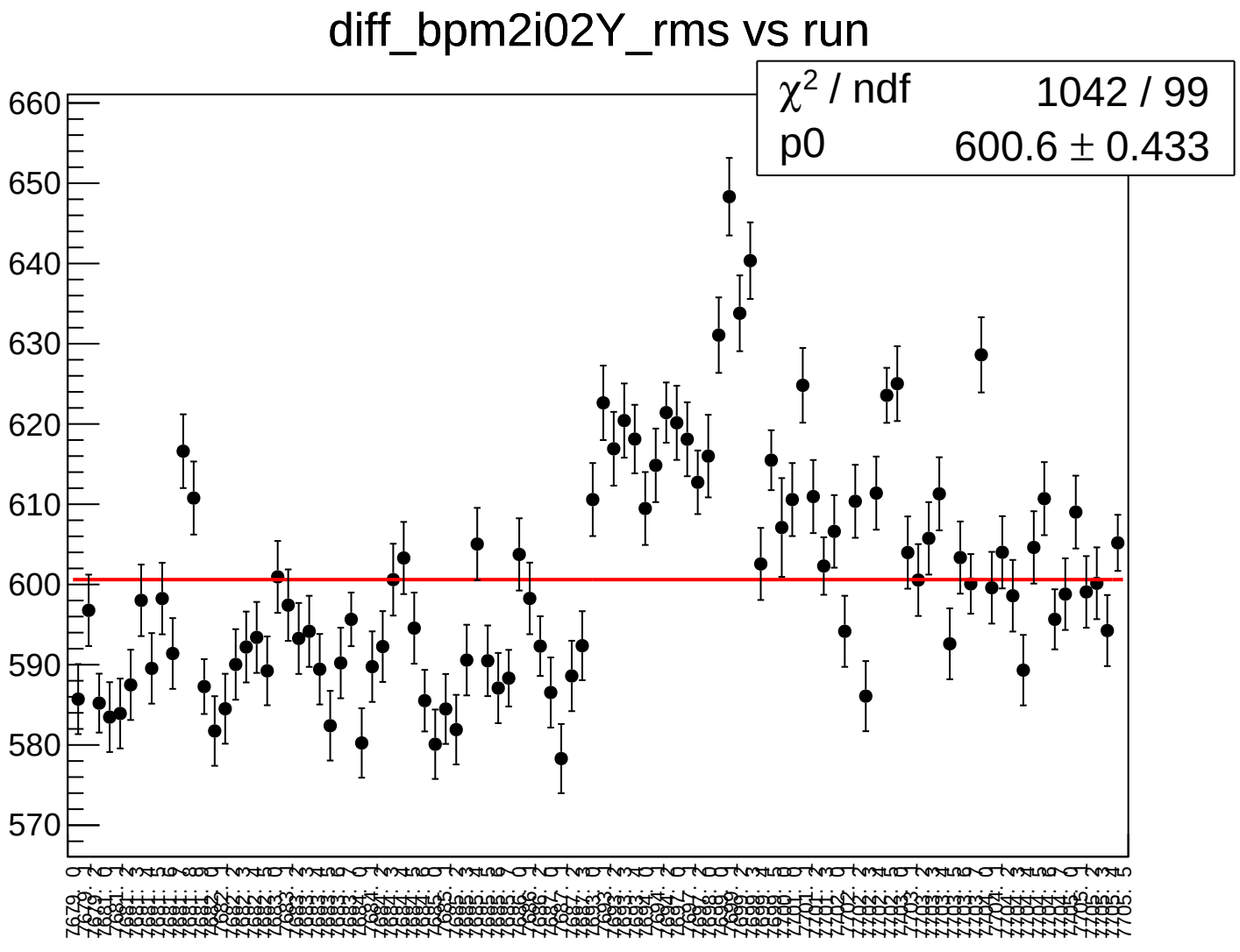

diff_bpm2i01Y_rms vs run
χ² / ndf 3210 / 99
p0 624.8 ± 0.4507
750
700
650
600
550

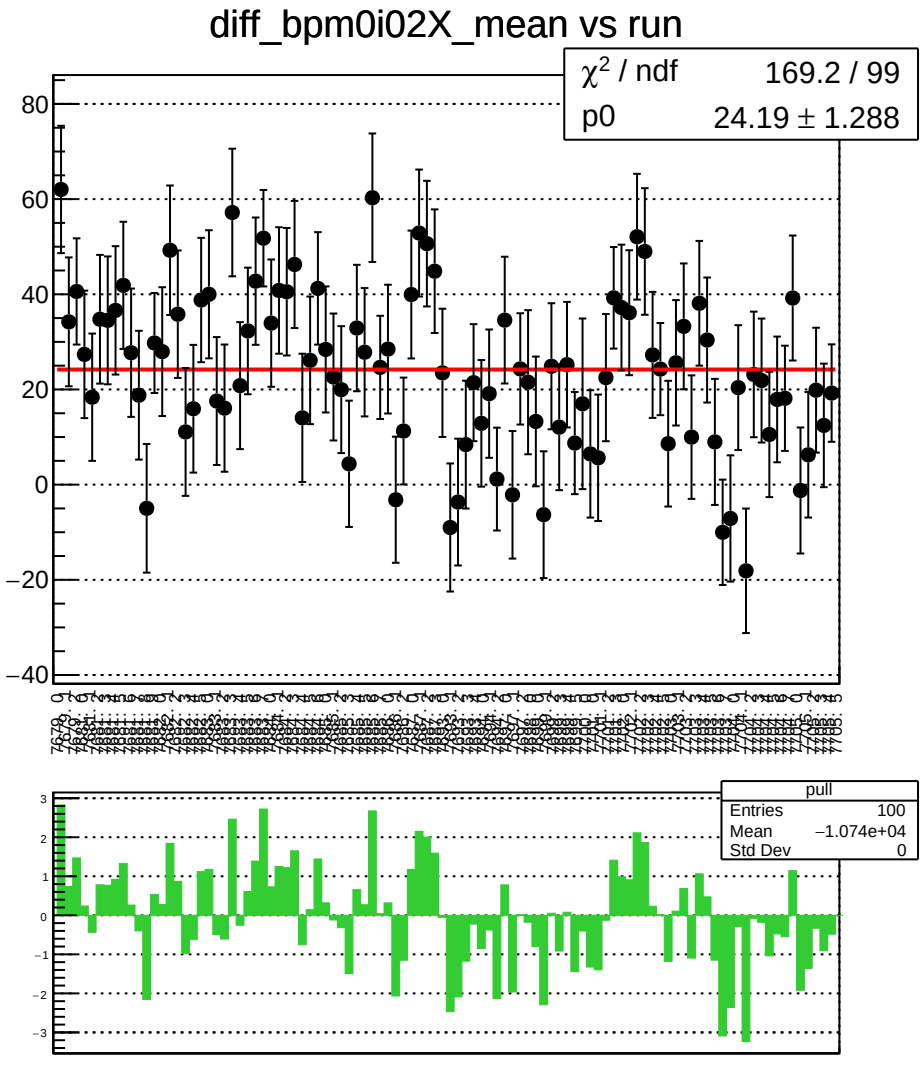

diff_bpm2i02X_mean vs run
χ² / ndf 286.9 / 99
p0 30.68 ± 0.6134
pull
Entries 100
Mean 1022
Std Dev 0

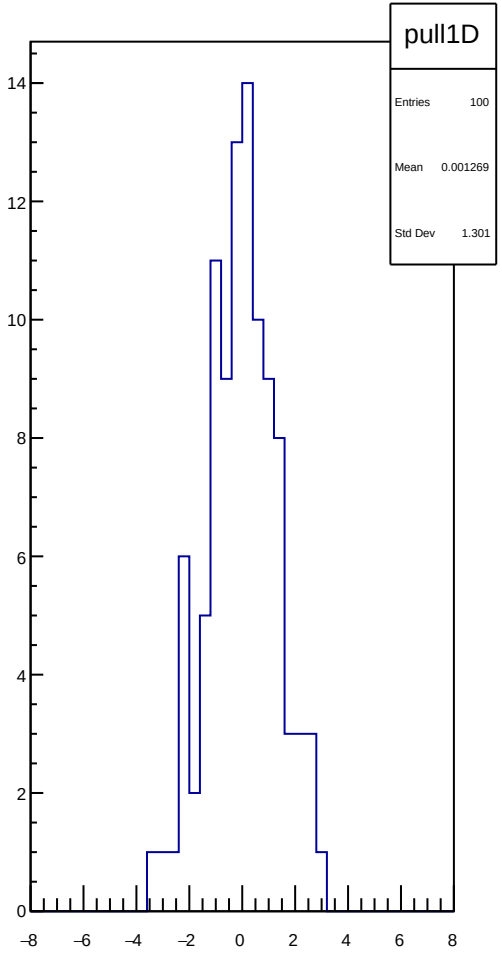

pull1D
Entries 100
Mean −0.02456
Std Dev 1.694

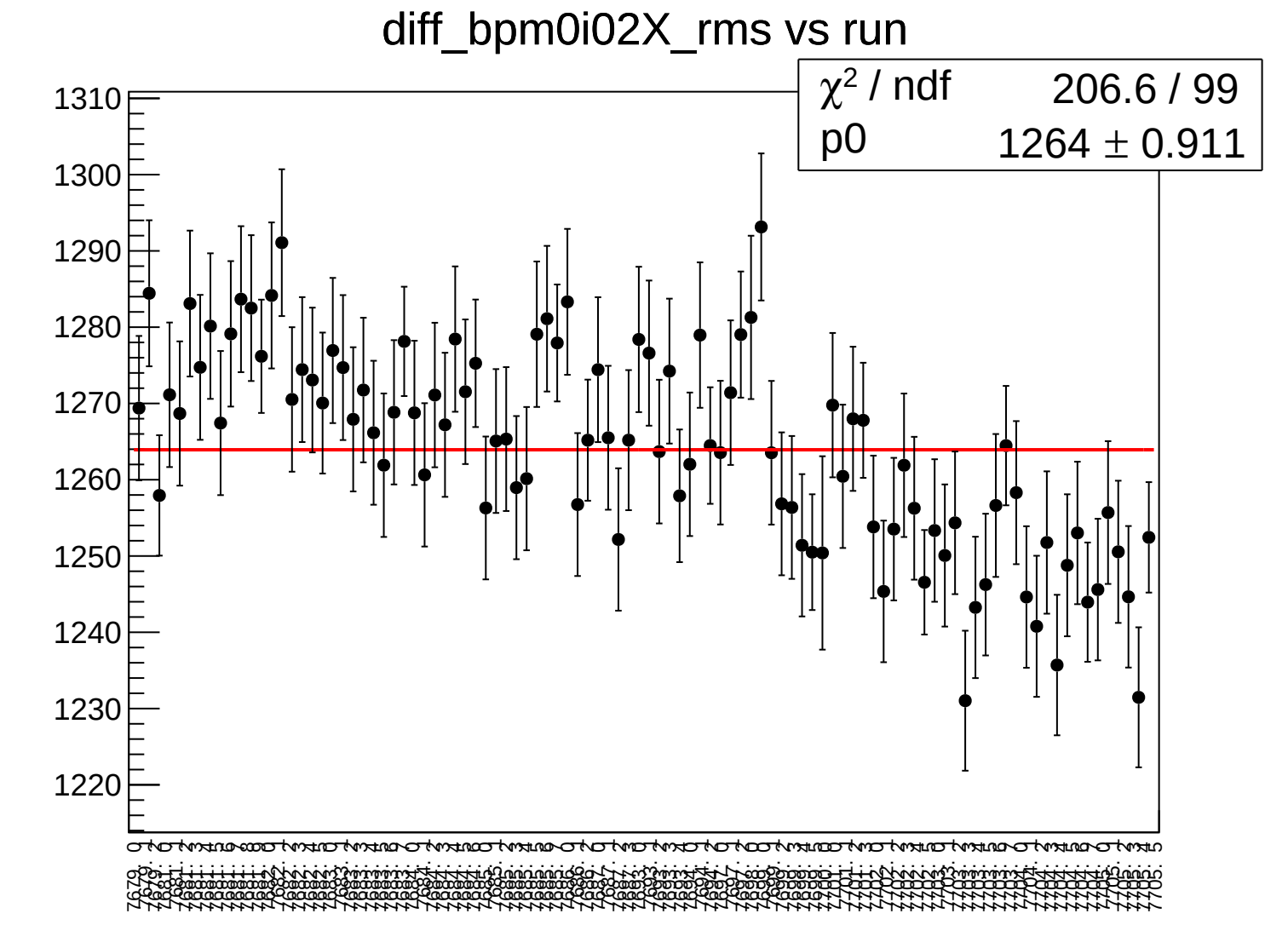

diff_bpm2i02X_rms vs run
χ² / ndf 1319 / 99
p0 601.7 ± 0.4338
660
640
620
600
580
560

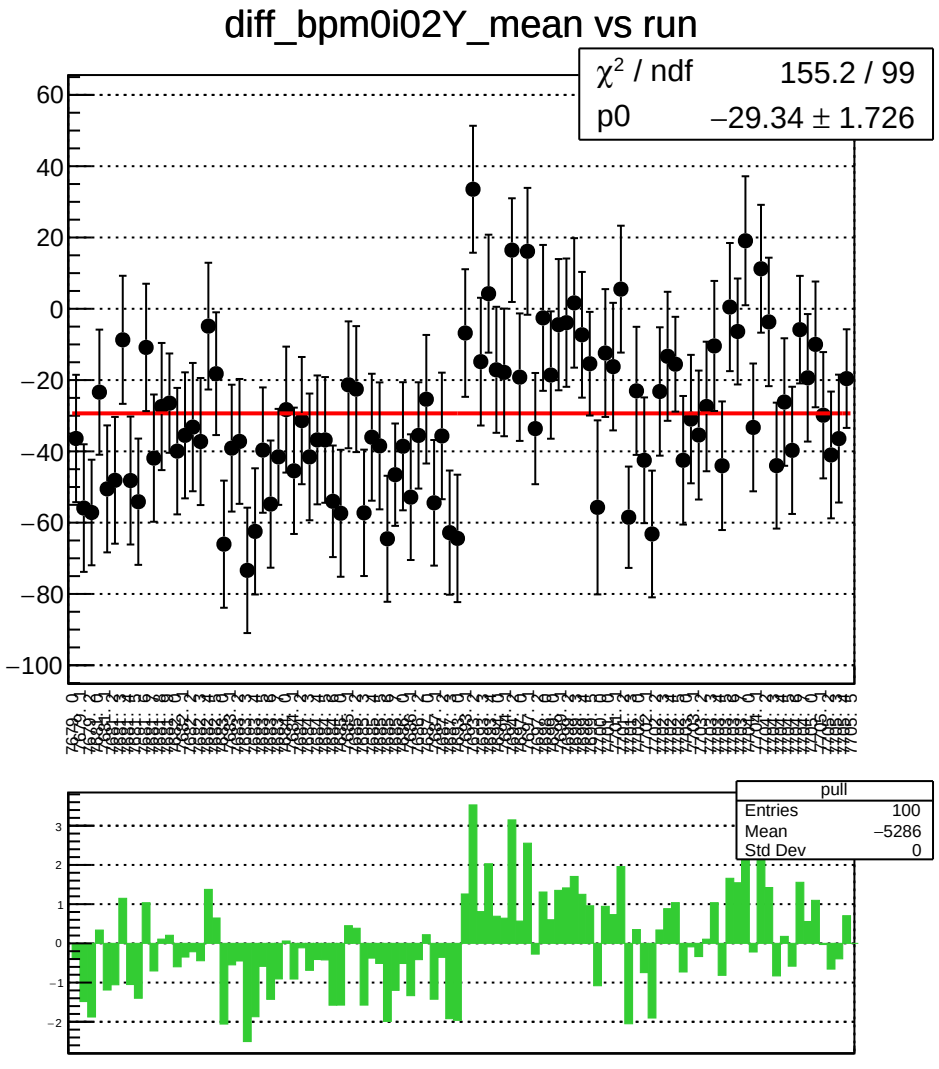

diff_bpm2i02Y_mean vs run
χ² / ndf 334.4 / 99
p0 −40.86 ± 0.6123
pull
Entries 100
Mean −6911
Std Dev 0
pull1D
Entries 100
Mean −0.004656
Std Dev 1.829

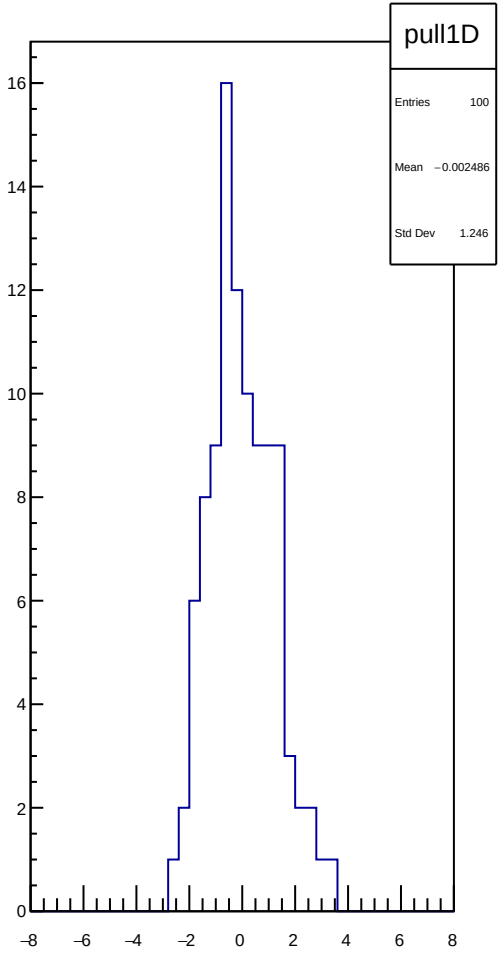

diff_bpm2i02Y_rms vs run
χ² / ndf 1042 / 99
p0 600.6 ± 0.433
660
650
640
630
620
610
600
590
580
570

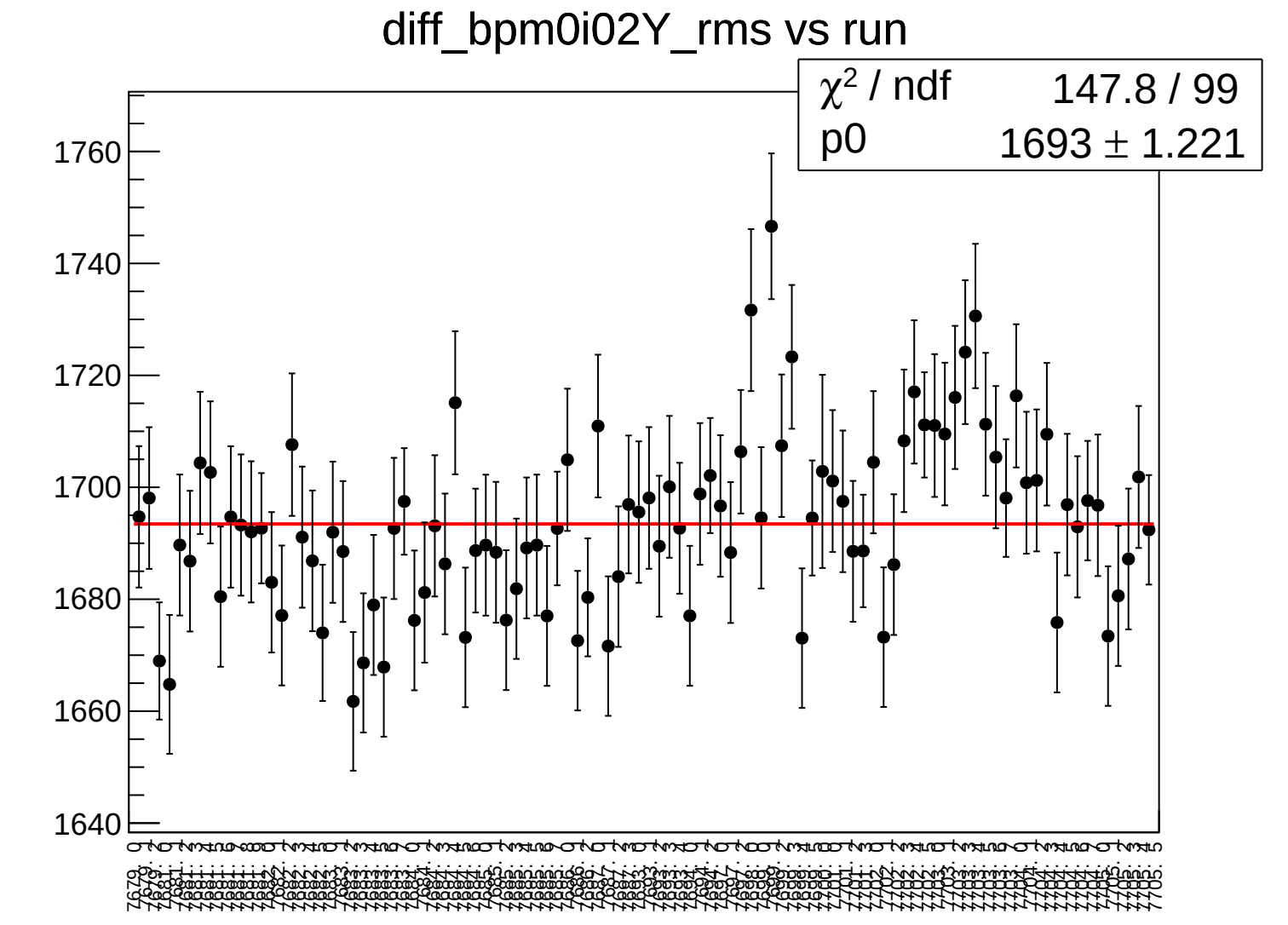

diff_bpm0i02X_mean vs run
χ² / ndf 169.2 / 99
p0 24.19 ± 1.288
pull
Entries 100
Mean −1.074e+04
Std Dev 0

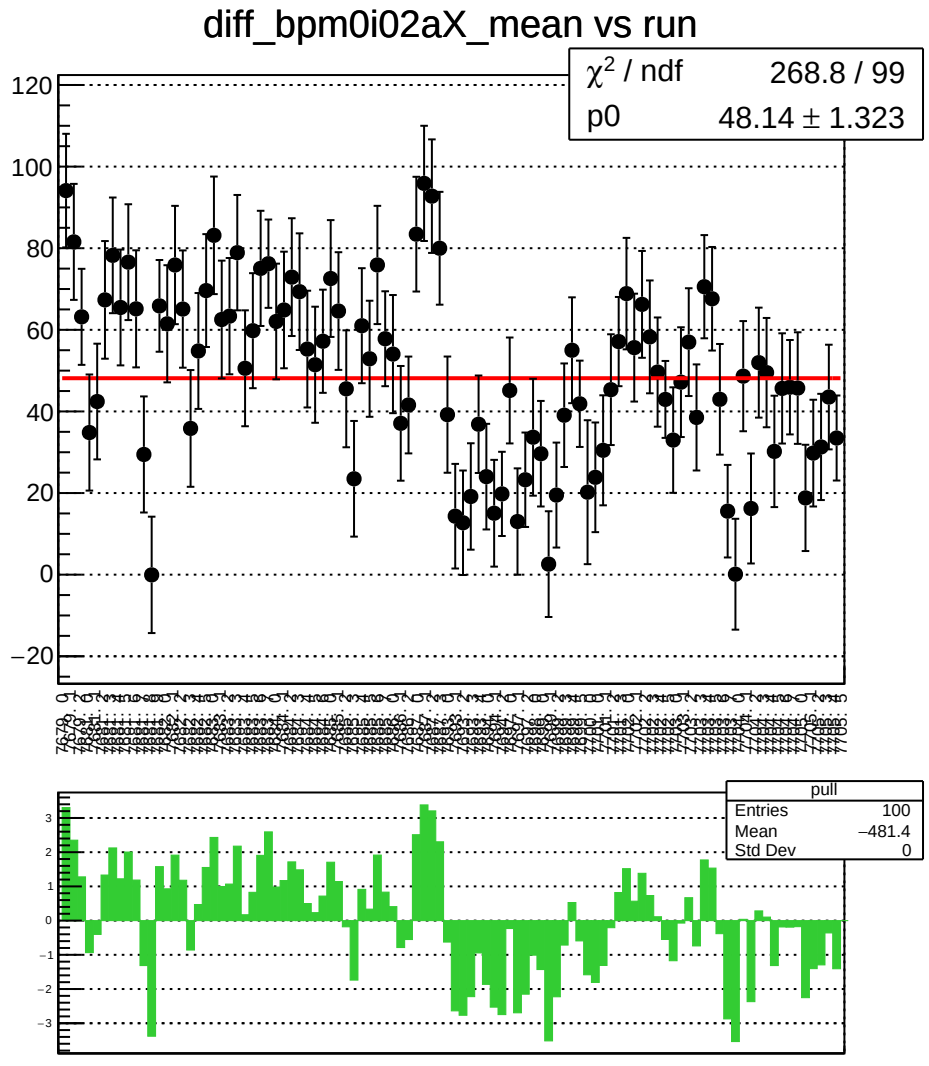

pull1D
Entries 100
Mean 0.001269
Std Dev 1.301

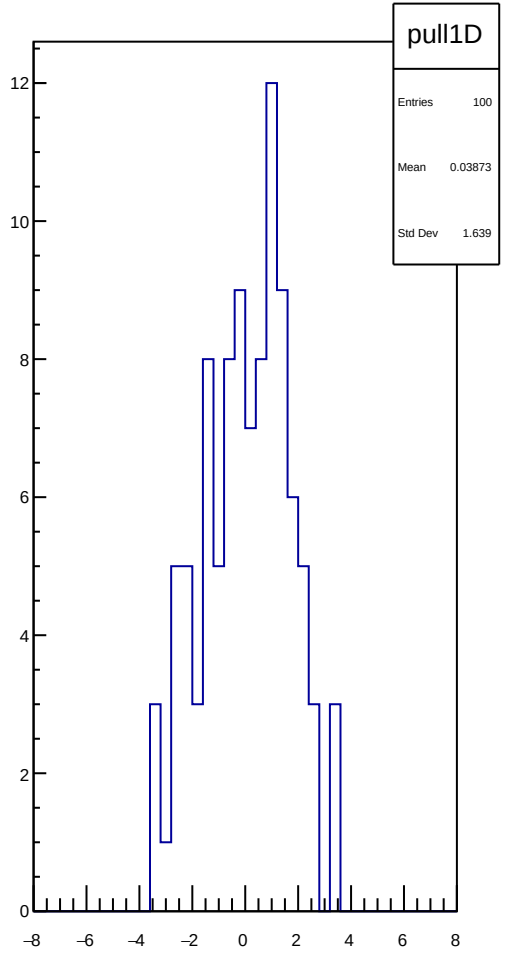

diff_bpm0i02X_rms vs run
χ² / ndf 206.6 / 99
p0 1264 ± 0.911
1310
1300
1290
1280
1270
1260
1250
1240
1230
1220

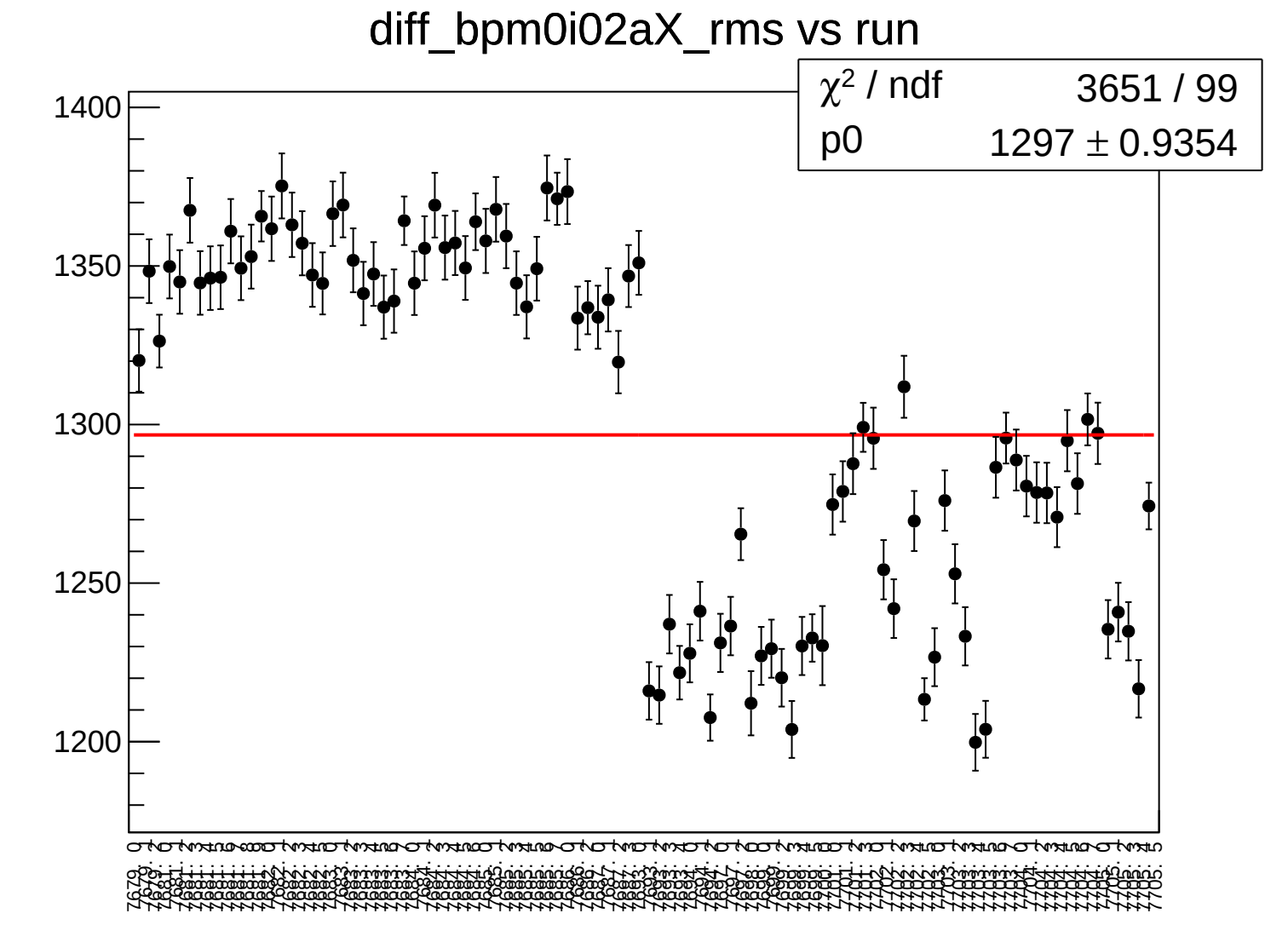

diff_bpm0i02Y_mean vs run
χ² / ndf 155.2 / 99
p0 −29.34 ± 1.726
pull
Entries 100
Mean −5286
Std Dev 0

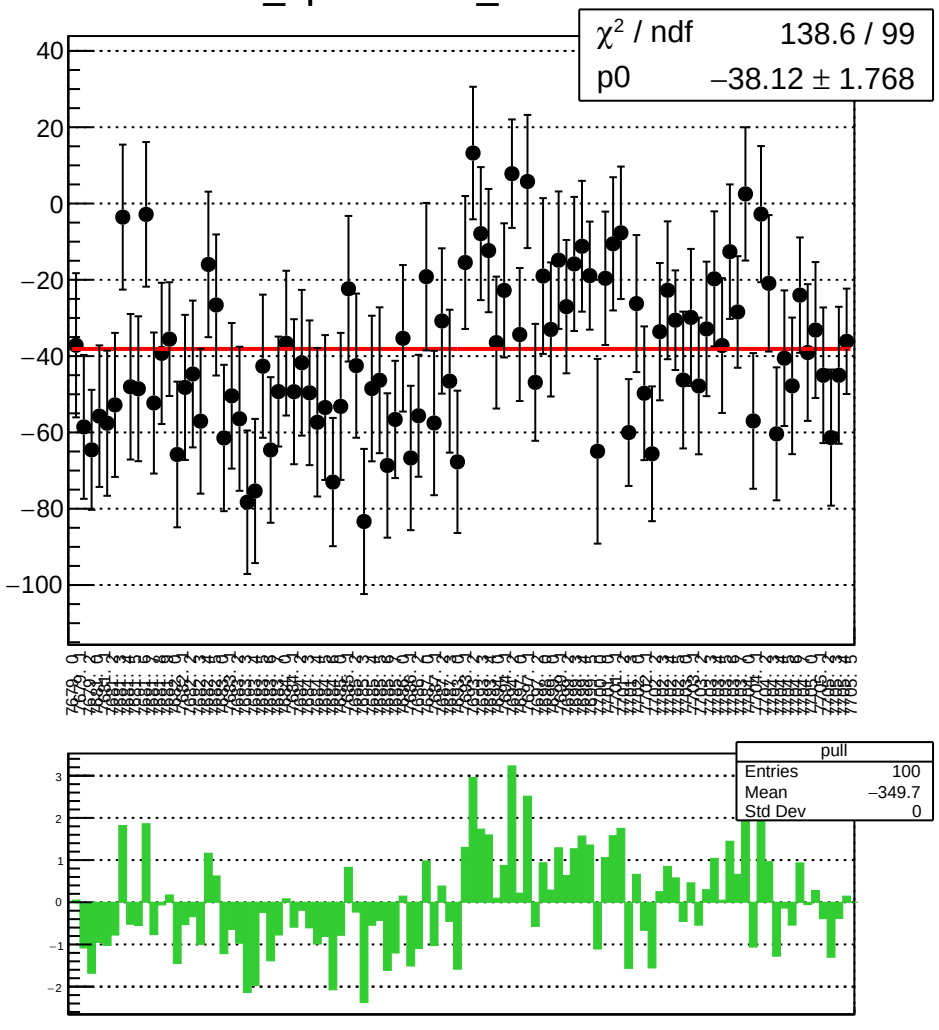

pull1D
Entries 100
Mean −0.002486
Std Dev 1.246

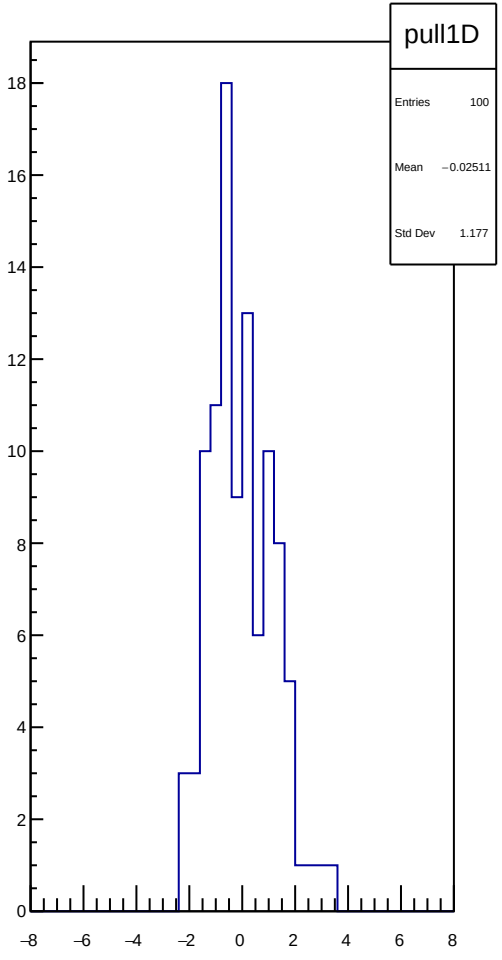

diff_bpm0i02Y_rms vs run
χ² / ndf 147.8 / 99
p0 1693 ± 1.221
1760
1740
1720
1700
1680
1660
1640

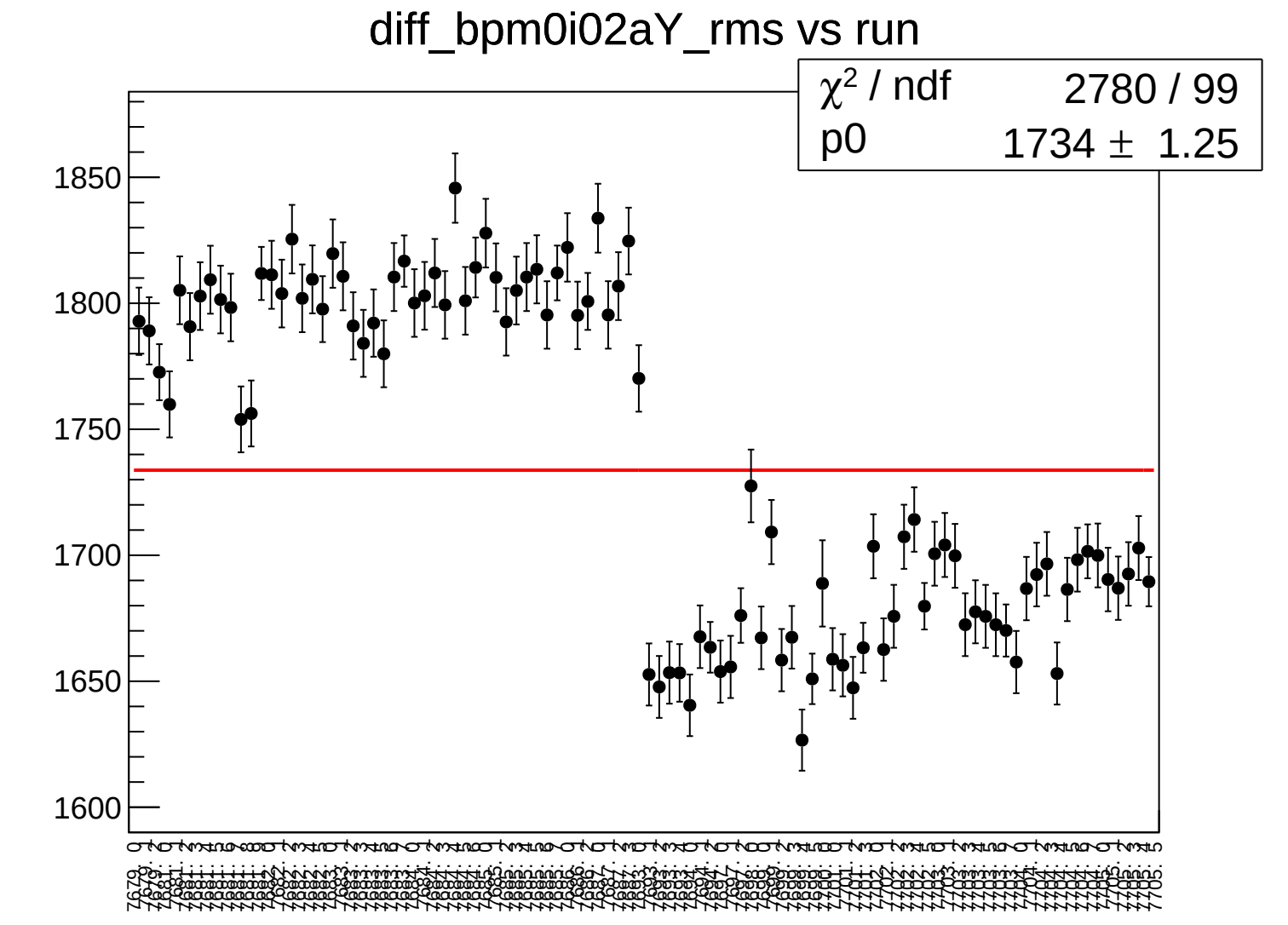

diff_bpm0i02aX_mean vs run
χ² / ndf 268.8 / 99
p0 48.14 ± 1.323
120
100
80
60
40
20
0
−20
pull
Entries 100
Mean −481.4
Std Dev 0
3
2
1
0
−1
−2
−3

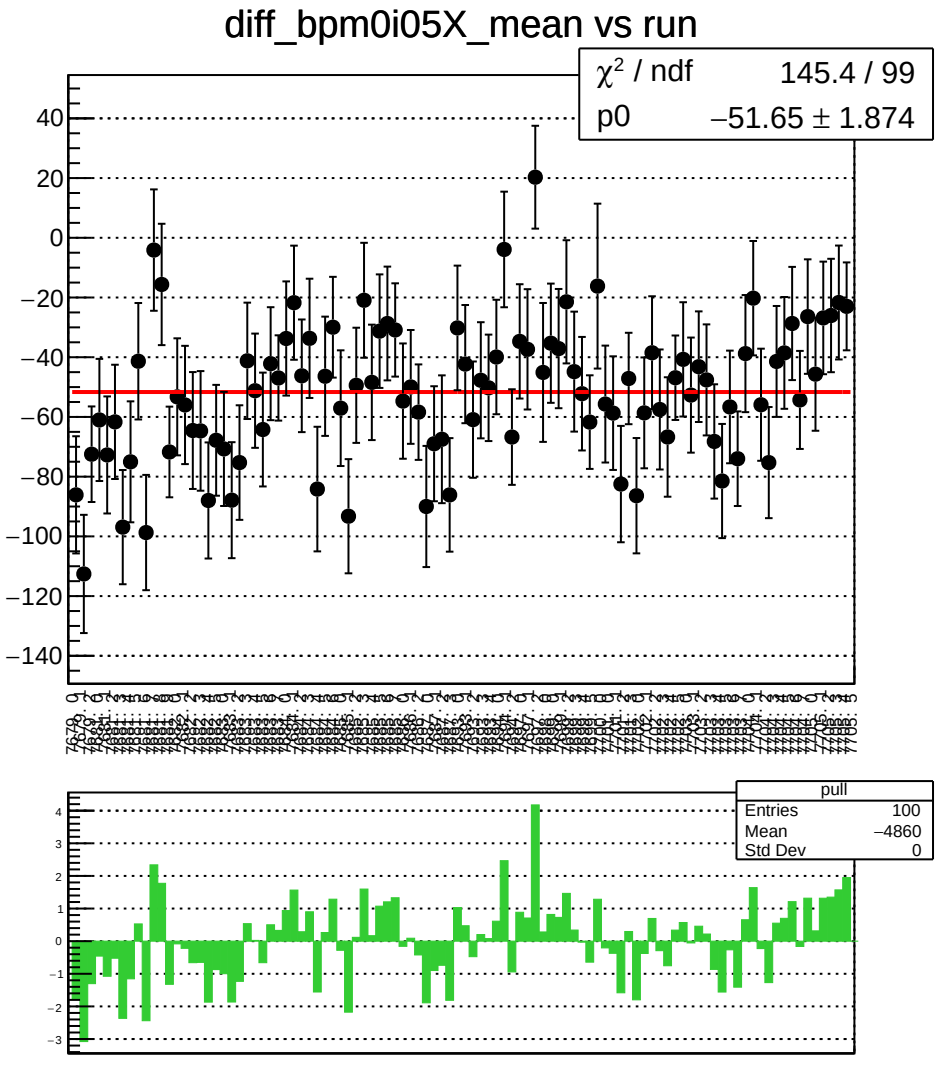

pull1D
Entries 100
Mean 0.03873
Std Dev 1.639
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

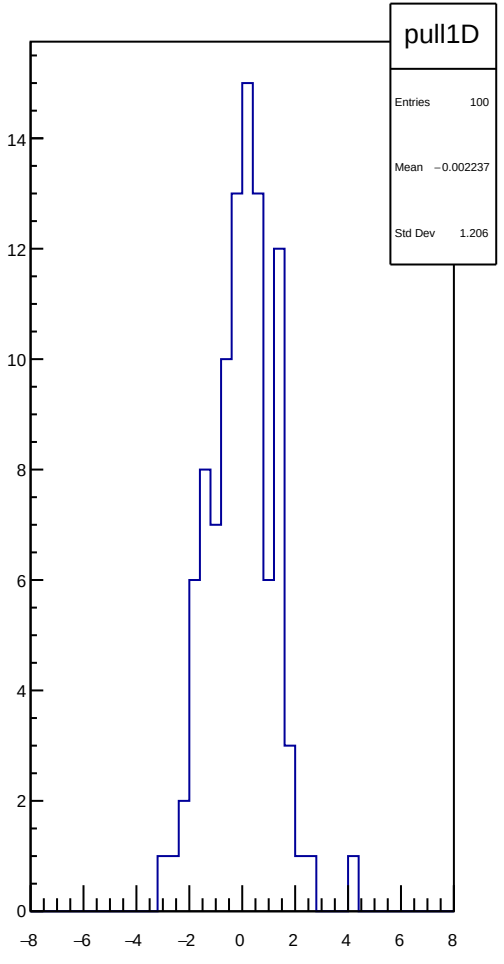

diff_bpm0i02aX_rms vs run
χ² / ndf 3651 / 99
p0 1297 ± 0.9354
1400
1350
1300
1250
1200

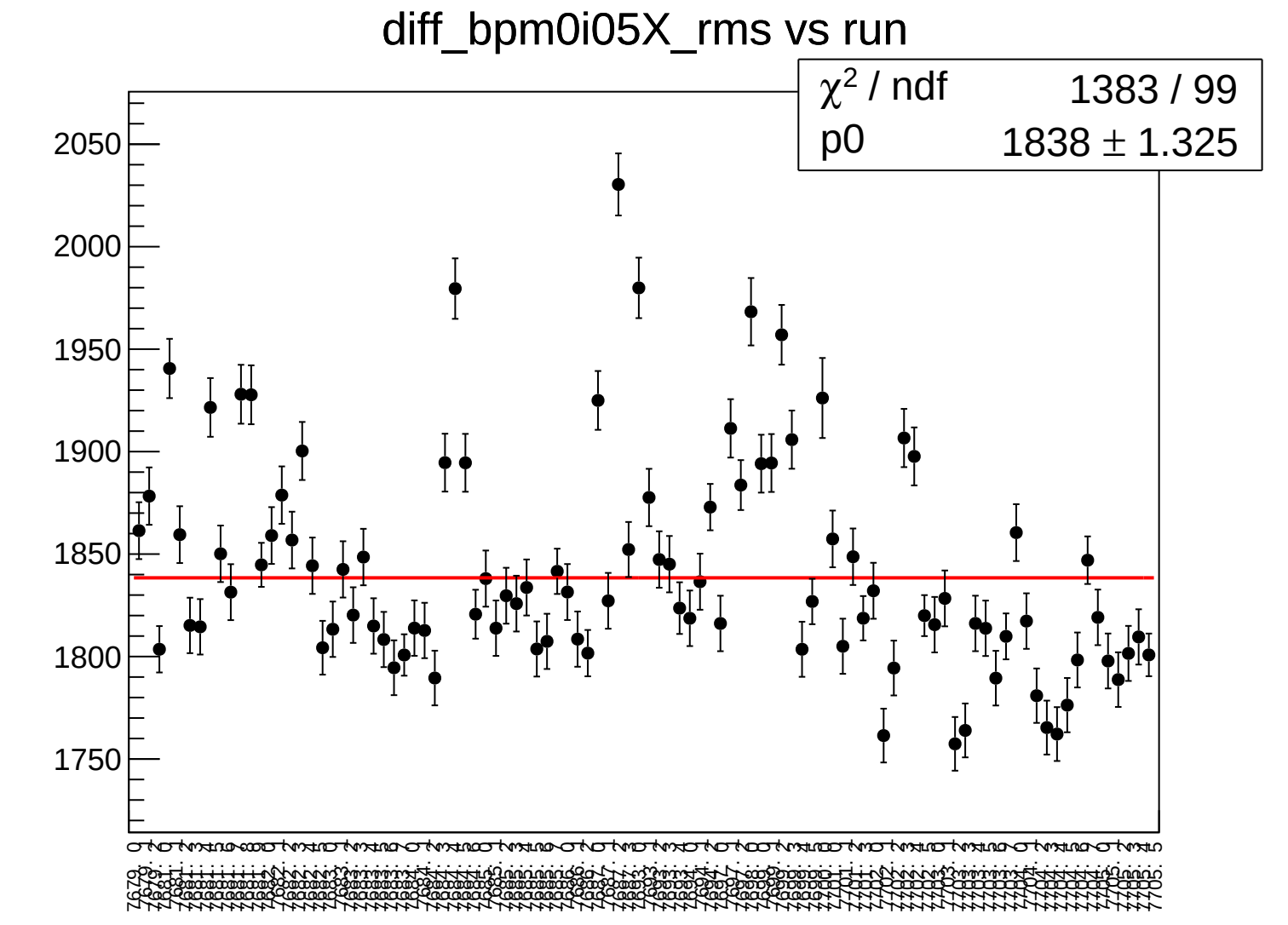

diff_bpm0i02aY_mean vs run
χ² / ndf 138.6 / 99
p0 −38.12 ± 1.768
pull
Entries 100
Mean −349.7
Std Dev 0

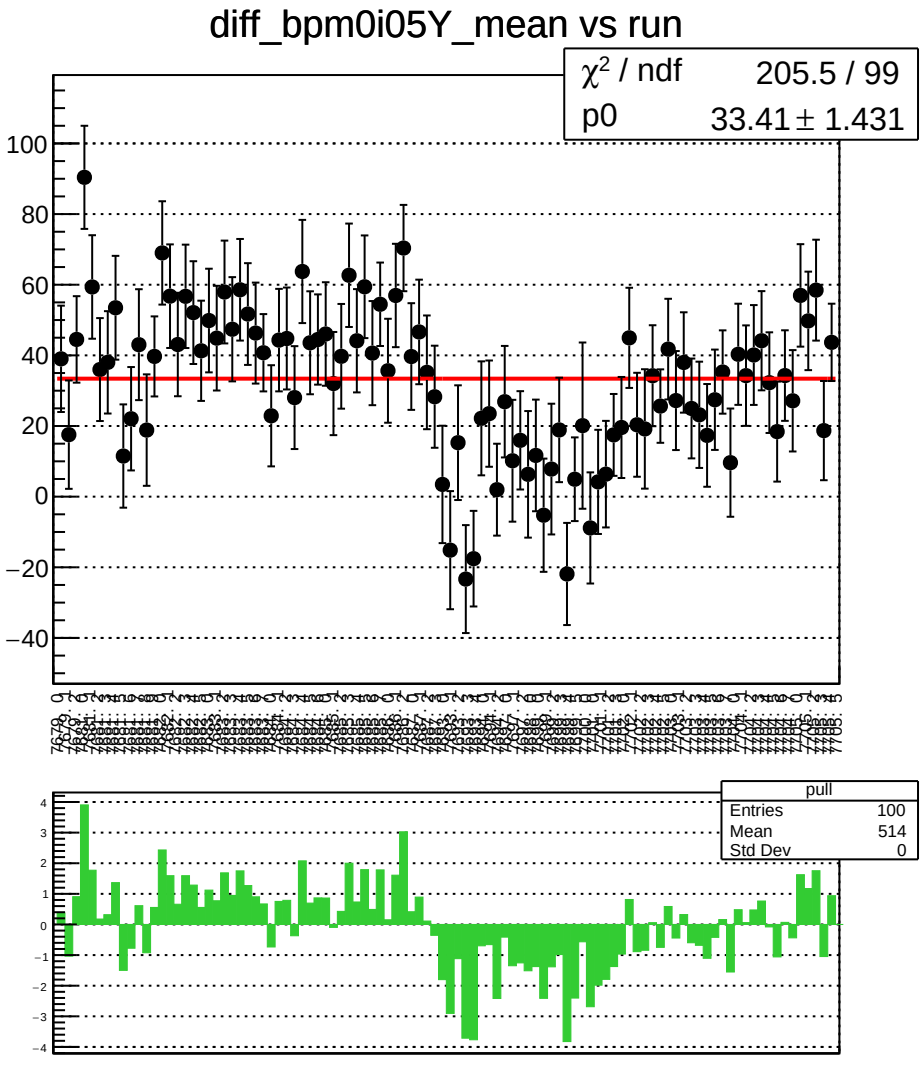

pull1D
Entries 100
Mean −0.02511
Std Dev 1.177

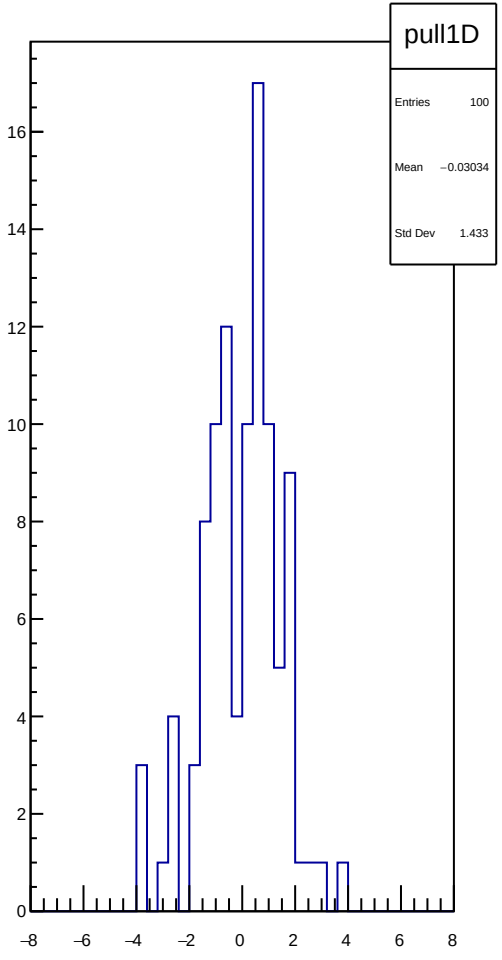

diff_bpm0i02aY_rms vs run
χ² / ndf 2780 / 99
p0 1734 ± 1.25
1850
1800
1750
1700
1650
1600

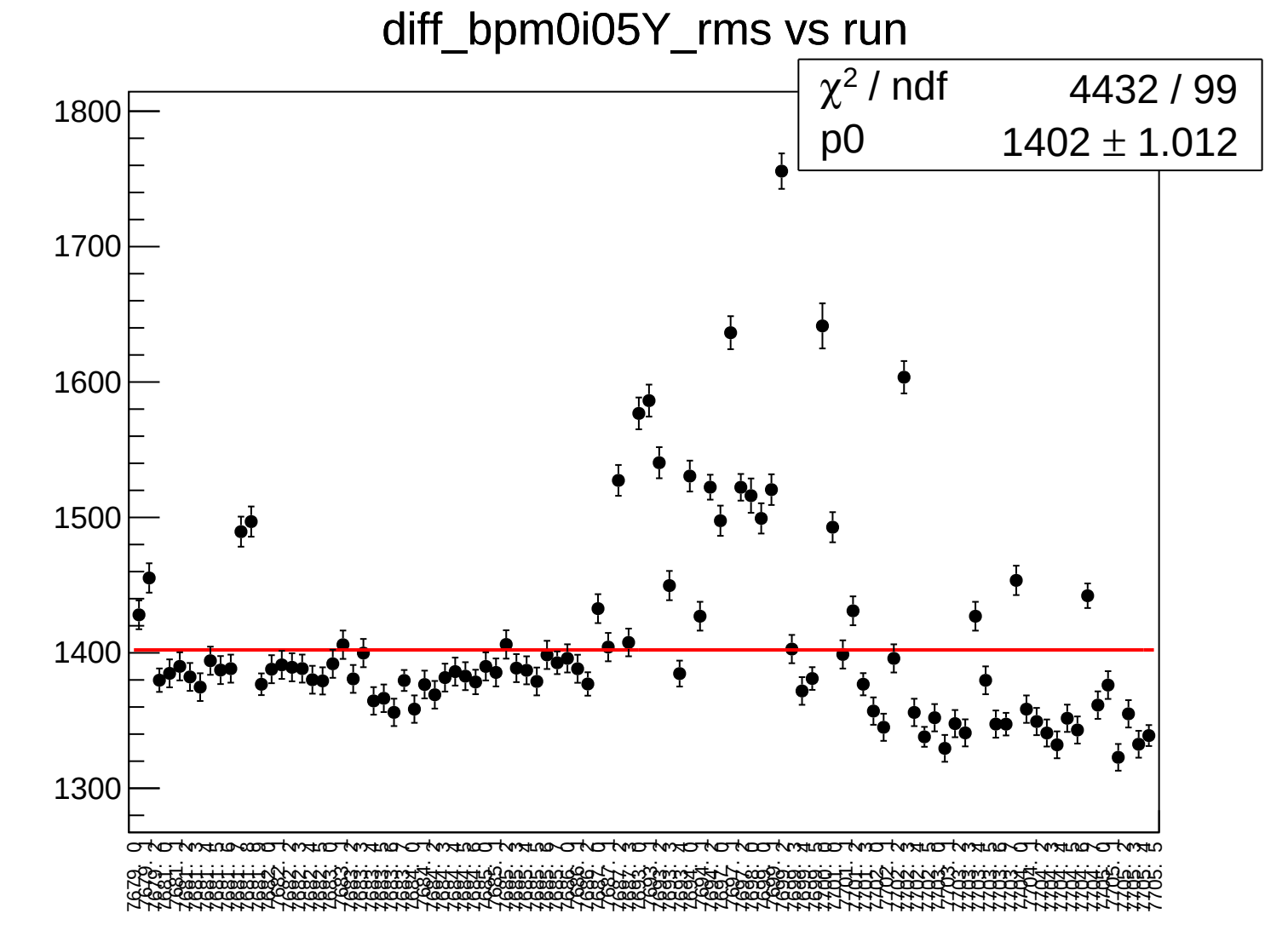

diff_bpm0i05X_mean vs run
χ² / ndf 145.4 / 99
p0 −51.65 ± 1.874
pull
Entries 100
Mean −4860
Std Dev 0

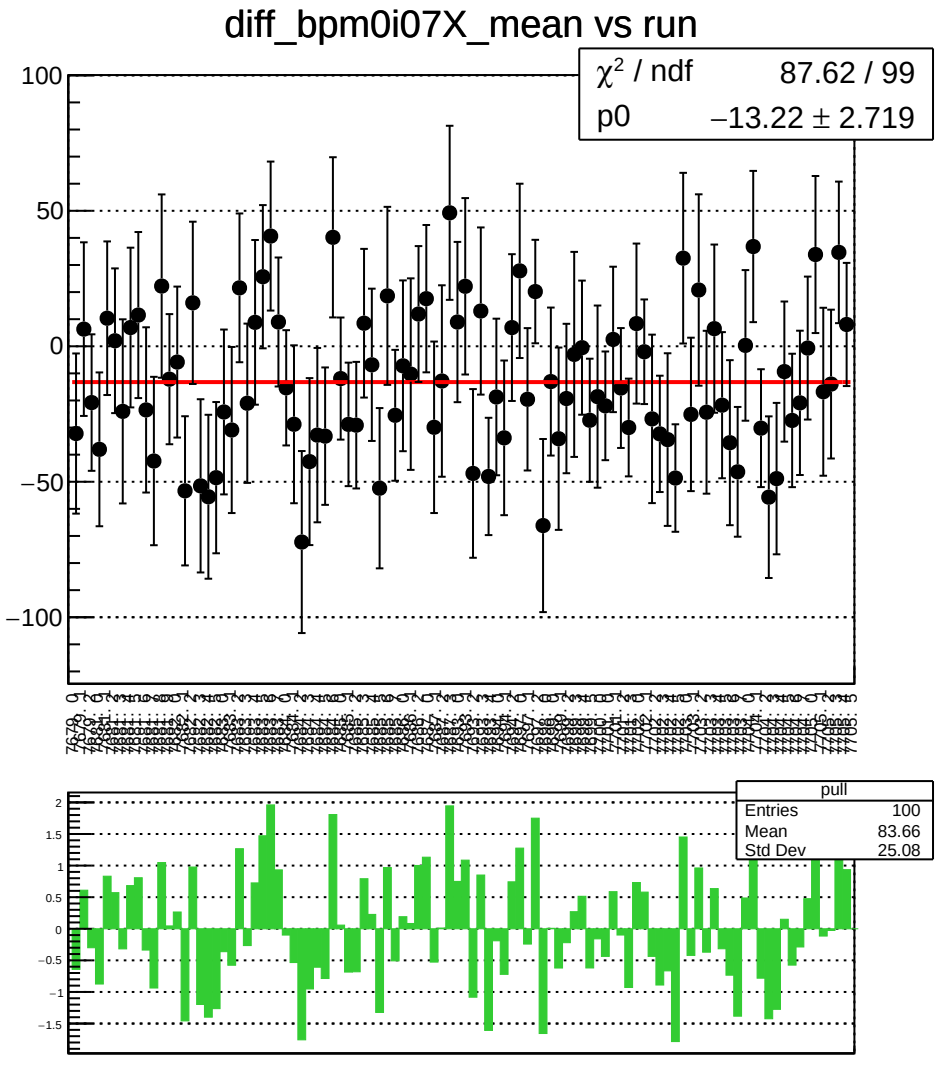

pull1D
Entries 100
Mean −0.002237
Std Dev 1.206

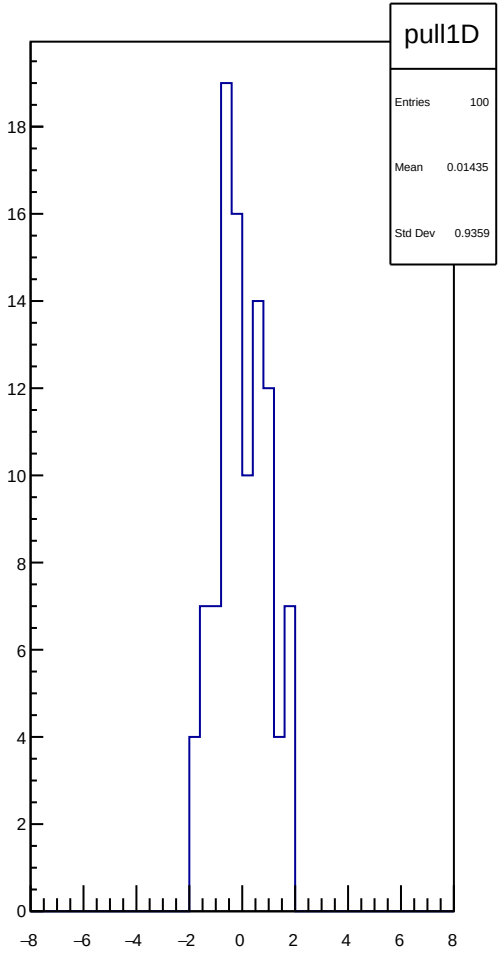

diff_bpm0i05X_rms vs run
χ² / ndf 1383 / 99
p0 1838 ± 1.325
2050
2000
1950
1900
1850
1800
1750

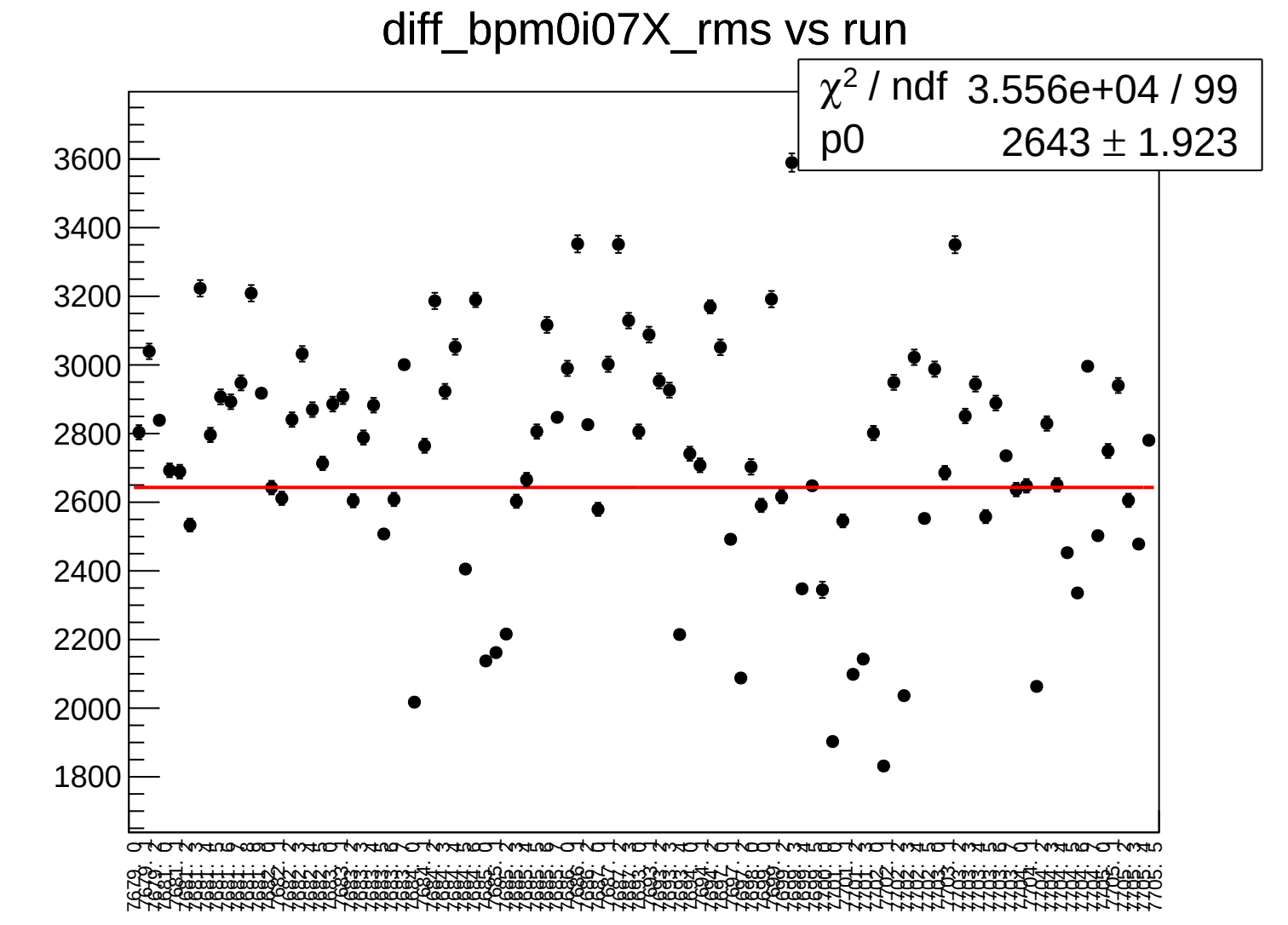

diff_bpm0i05Y_mean vs run
χ² / ndf 205.5 / 99
p0 33.41 ± 1.431
pull
Entries 100
Mean 514
Std Dev 0

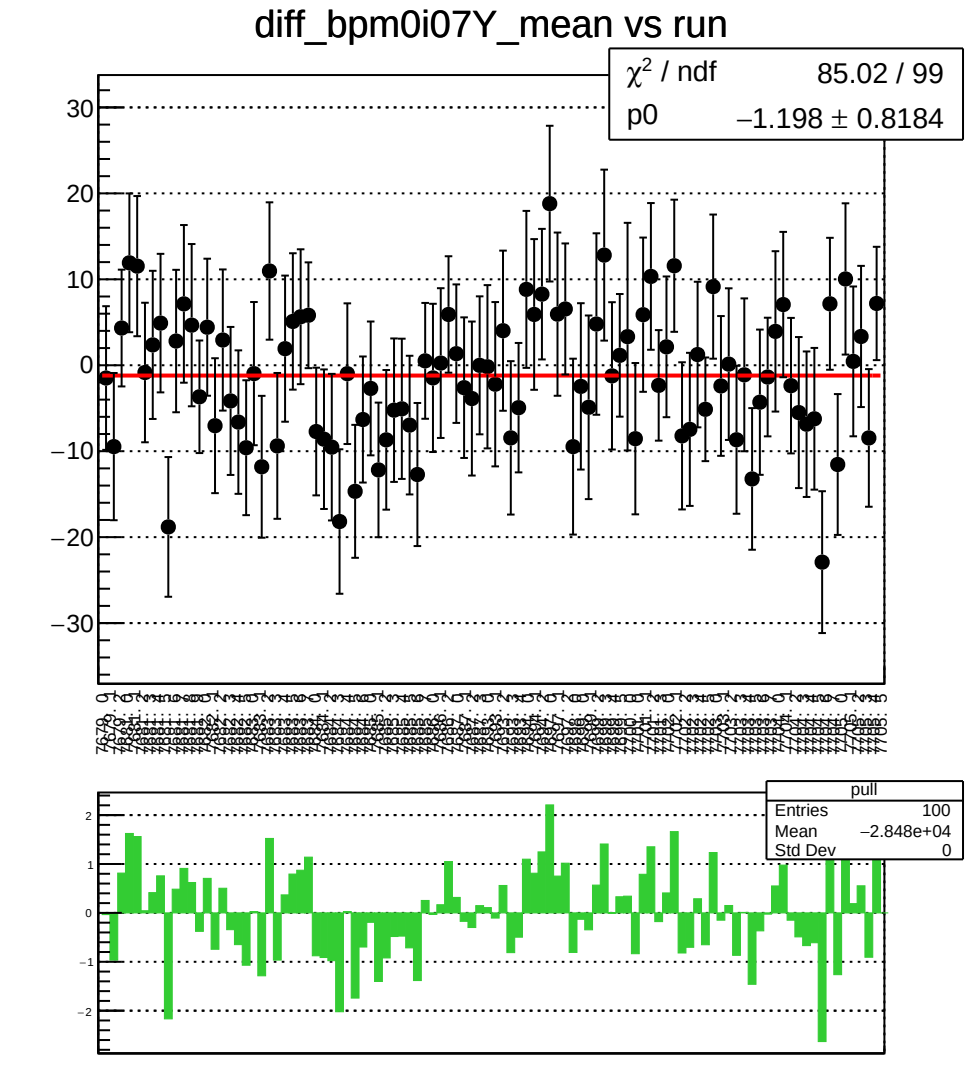

pull1D
Entries 100
Mean −0.03034
Std Dev 1.433

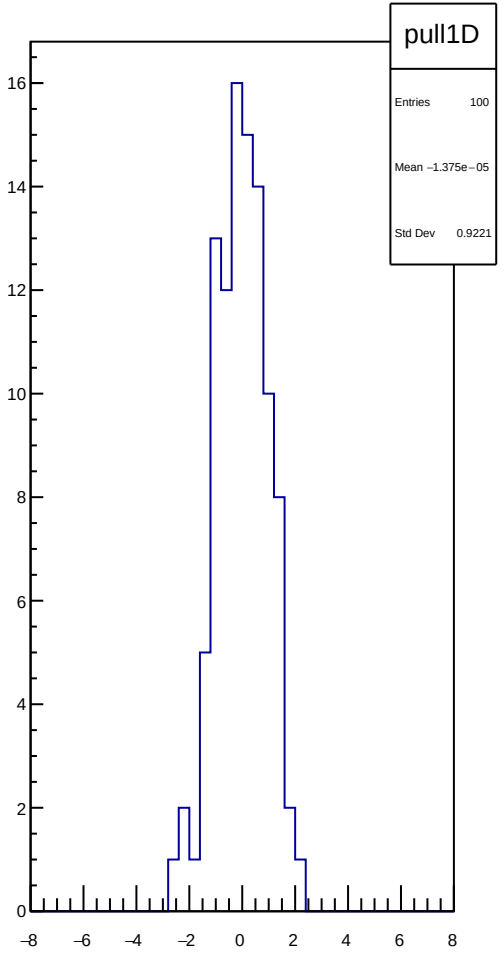

diff_bpm0i05Y_rms vs run
χ² / ndf 4432 / 99
p0 1402 ± 1.012
1800
1700
1600
1500
1400
1300

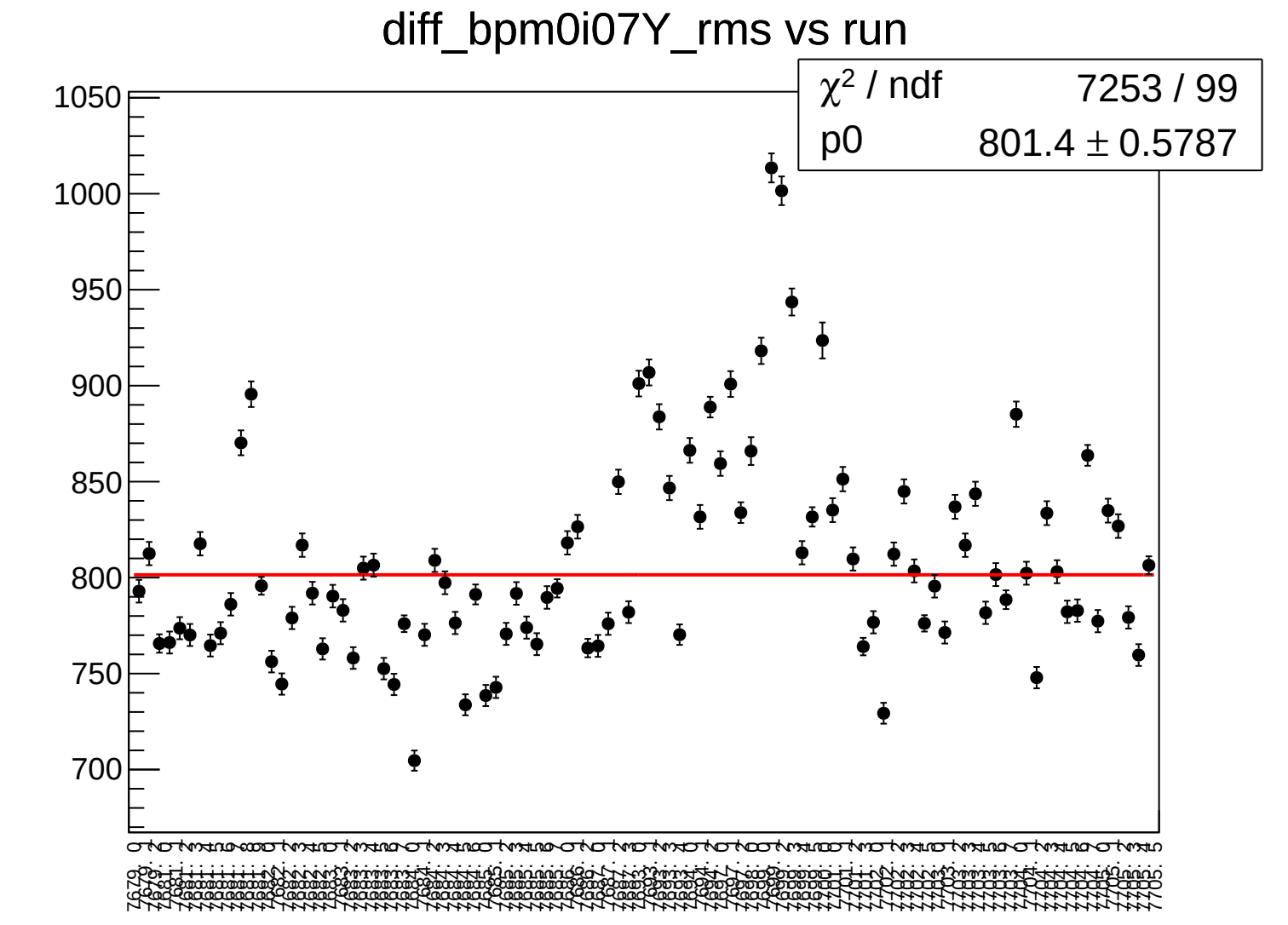

diff_bpm0i07X_mean vs run
χ² / ndf 87.62 / 99
p0 −13.22 ± 2.719
100
50
0
−50
−100
pull
Entries 100
Mean 83.66
Std Dev 25.08
2
1.5
1
0.5
0
−0.5
−1
−1.5

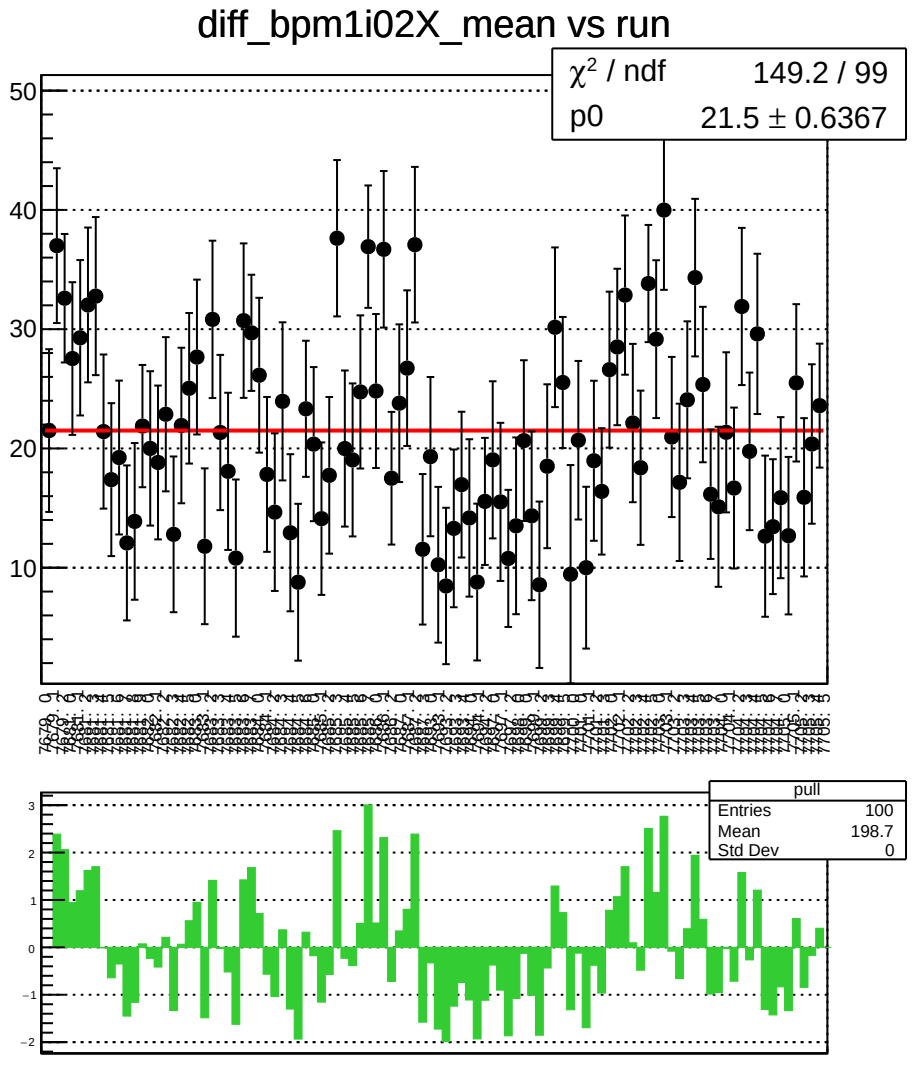

pull1D
Entries 100
Mean 0.01435
Std Dev 0.9359
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

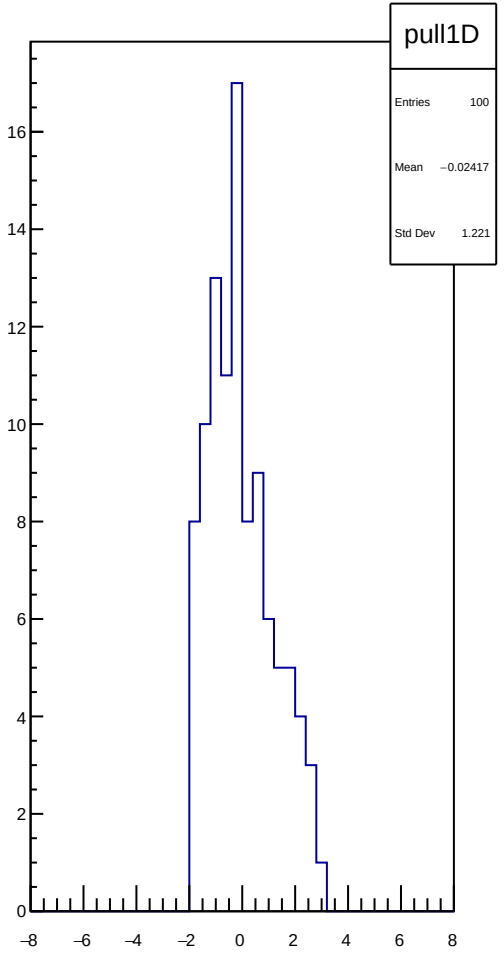

diff_bpm0i07X_rms vs run
χ² / ndf 3.556e+04 / 99
p0 2643 ± 1.923
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

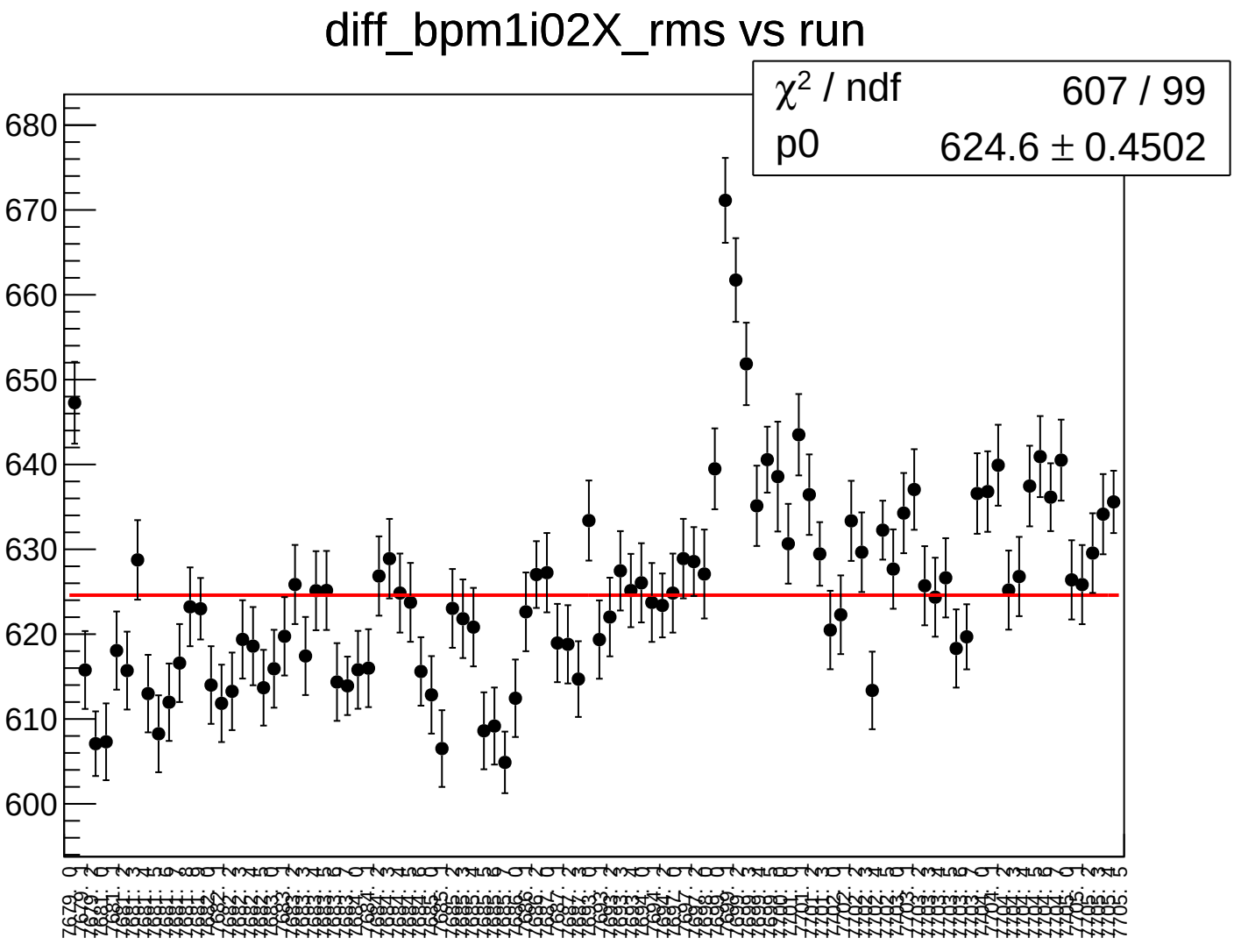

diff_bpm0i07Y_mean vs run
χ² / ndf 85.02 / 99
p0 −1.198 ± 0.8184
pull
Entries 100
Mean −2.848e+04
Std Dev 0

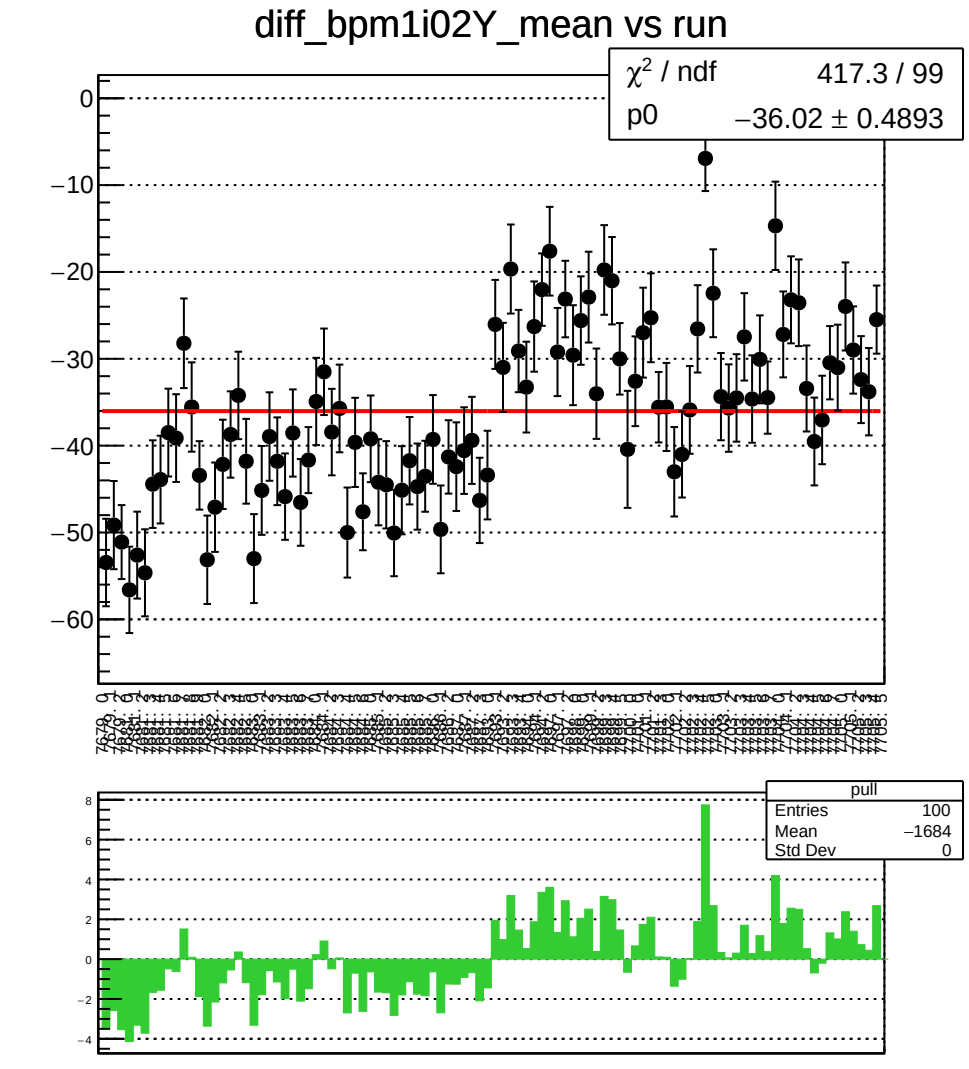

pull1D
Entries 100
Mean −1.375e−05
Std Dev 0.9221

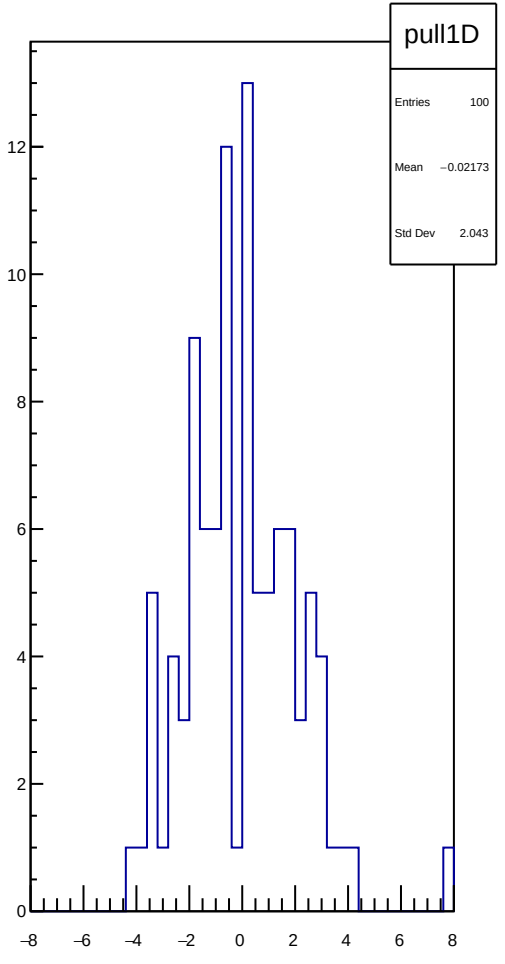

diff_bpm0i07Y_rms vs run
χ² / ndf 7253 / 99
p0 801.4 ± 0.5787
1050
1000
950
900
850
800
750
700

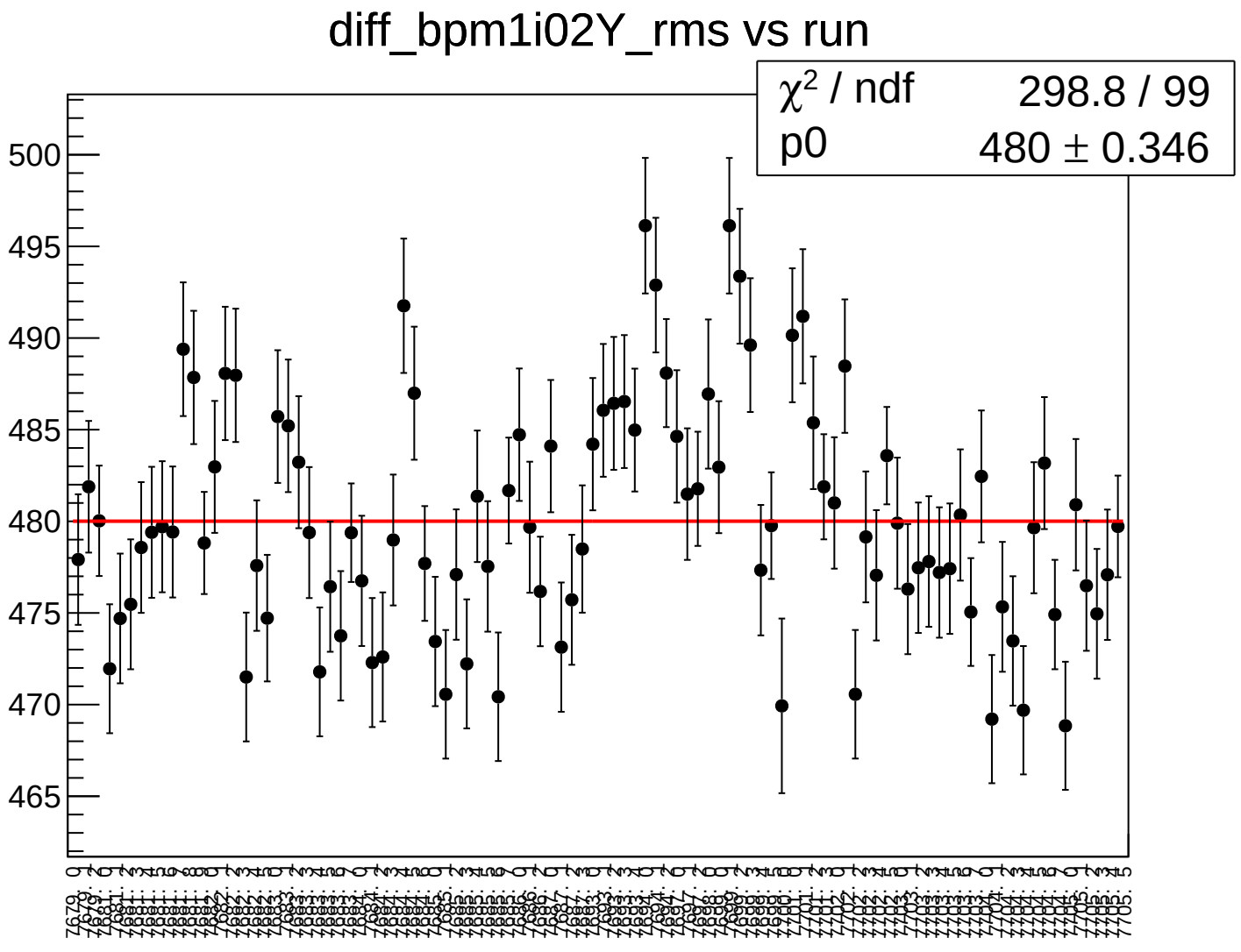

diff_bpm1i02X_mean vs run
χ² / ndf 149.2 / 99
p0 21.5 ± 0.6367
pull
Entries 100
Mean 198.7
Std Dev 0

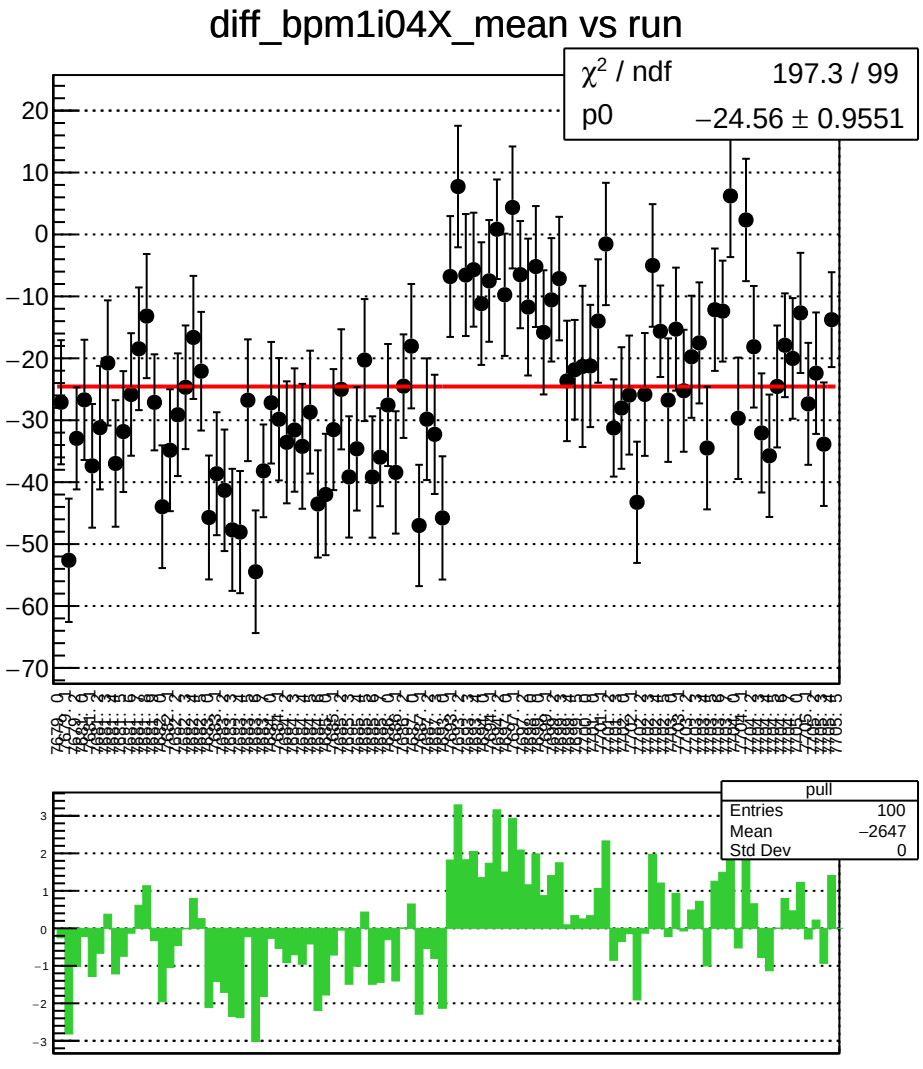

pull1D
Entries 100
Mean −0.02417
Std Dev 1.221

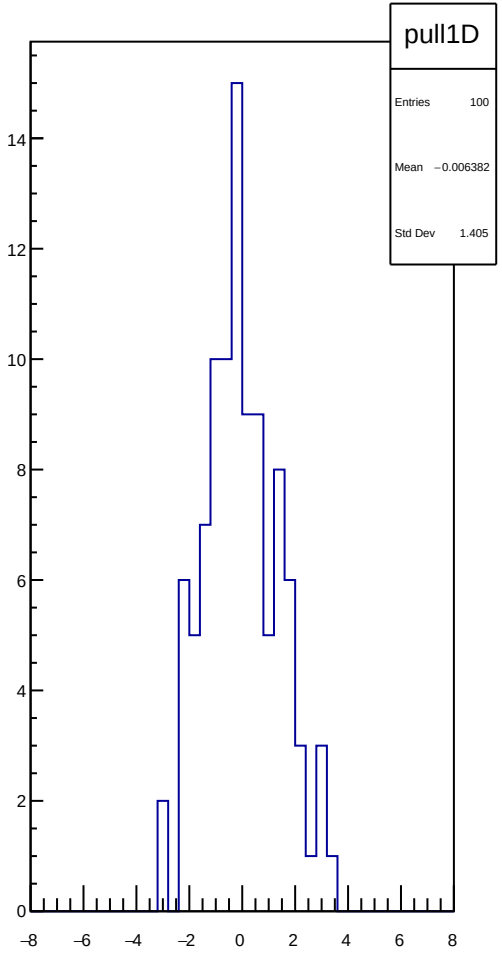

diff_bpm1i02X_rms vs run
χ² / ndf 607 / 99
p0 624.6 ± 0.4502
680
670
660
650
640
630
620
610
600

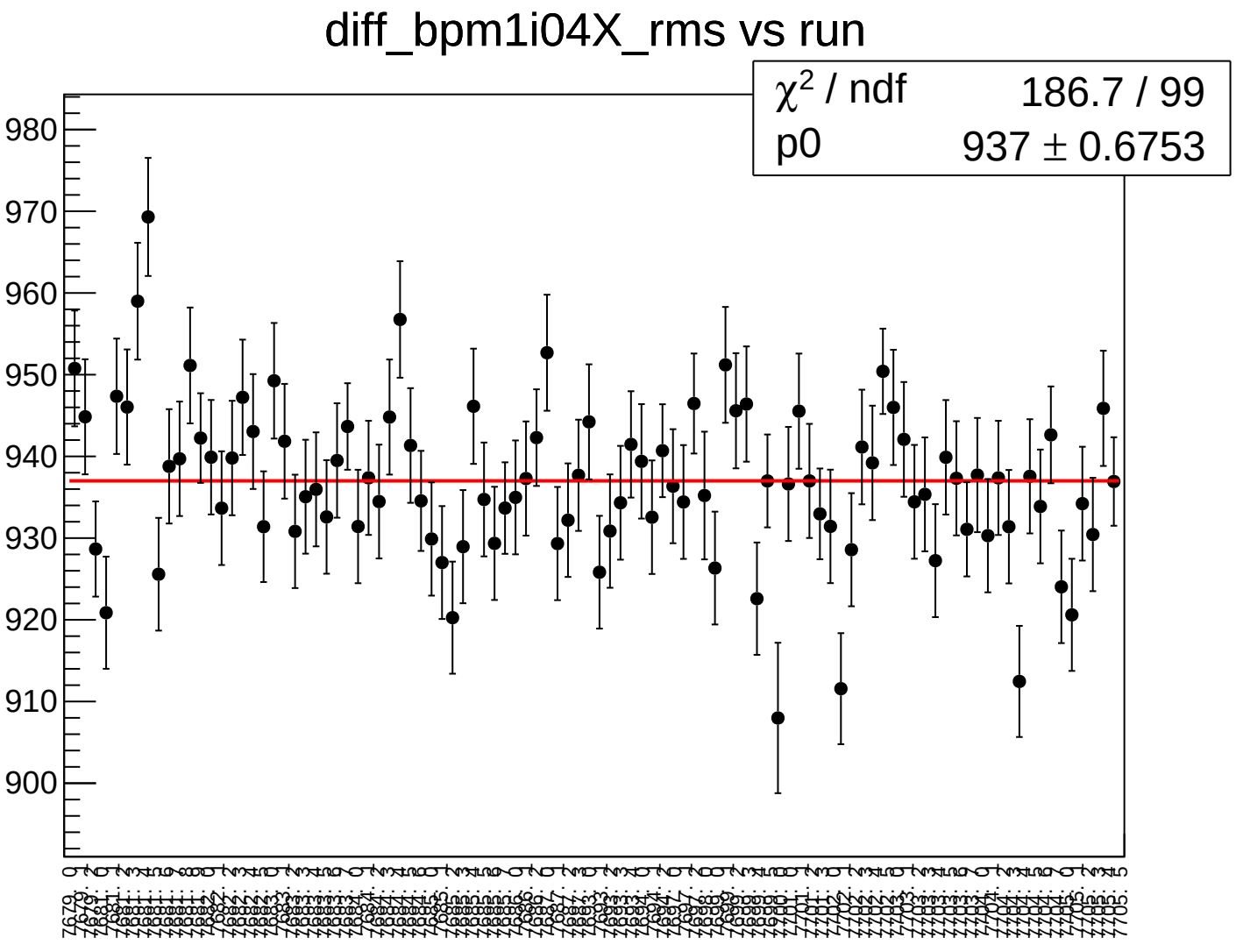

diff_bpm1i02Y_mean vs run
χ² / ndf 417.3 / 99
p0 −36.02 ± 0.4893
pull
Entries 100
Mean −1684
Std Dev 0

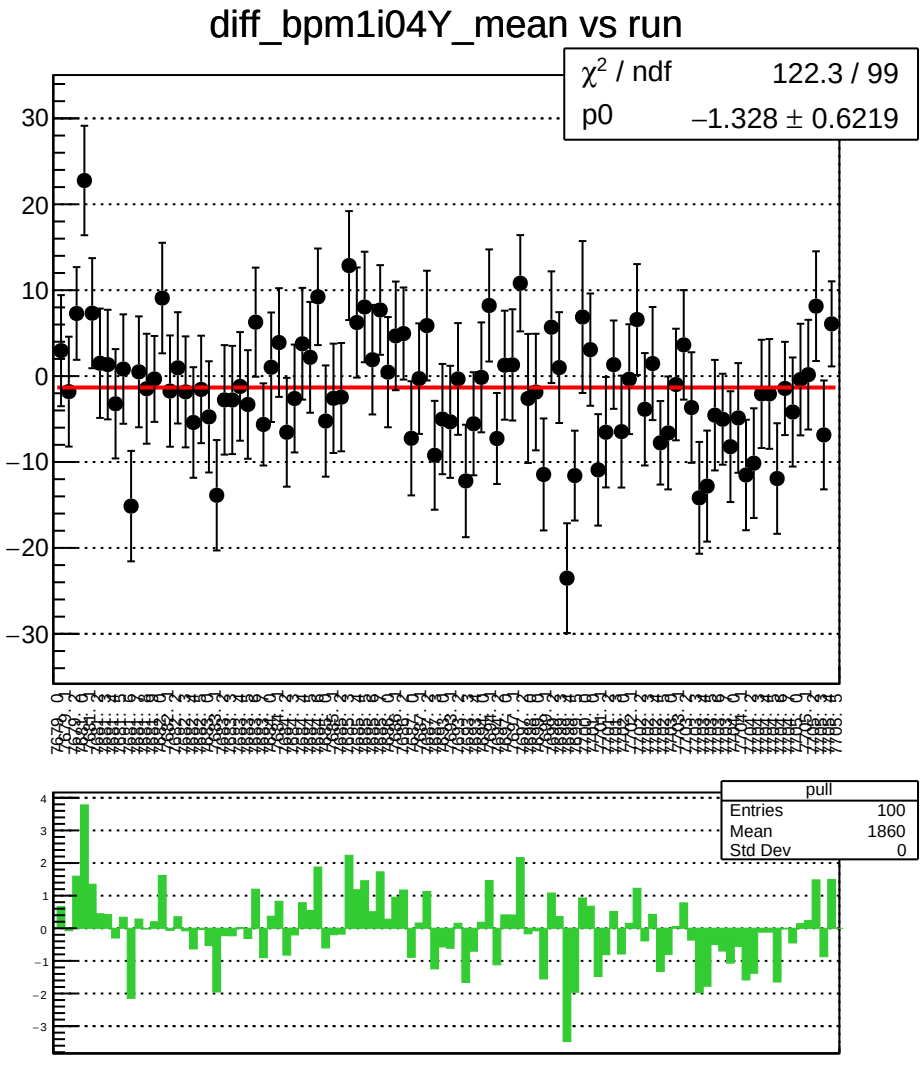

pull1D
Entries 100
Mean −0.02173
Std Dev 2.043

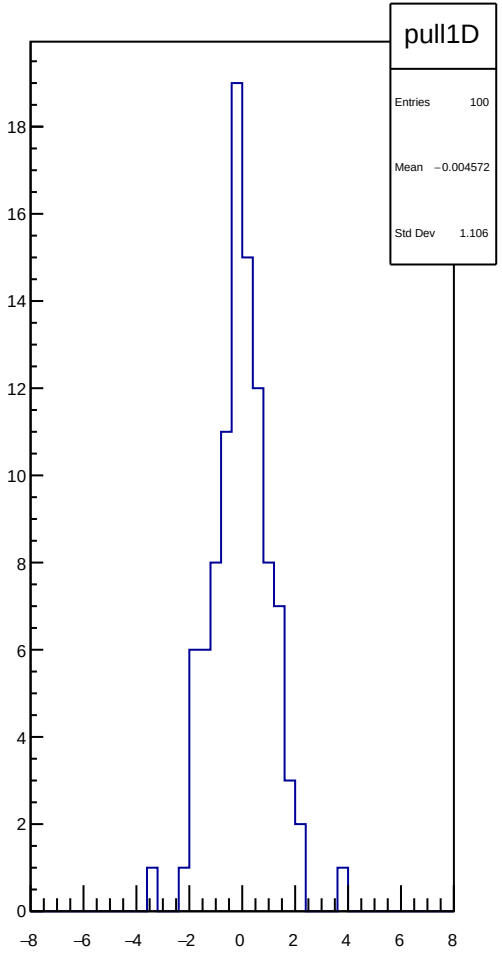

diff_bpm1i02Y_rms vs run
χ² / ndf 298.8 / 99
p0 480 ± 0.346
500
495
490
485
480
475
470
465

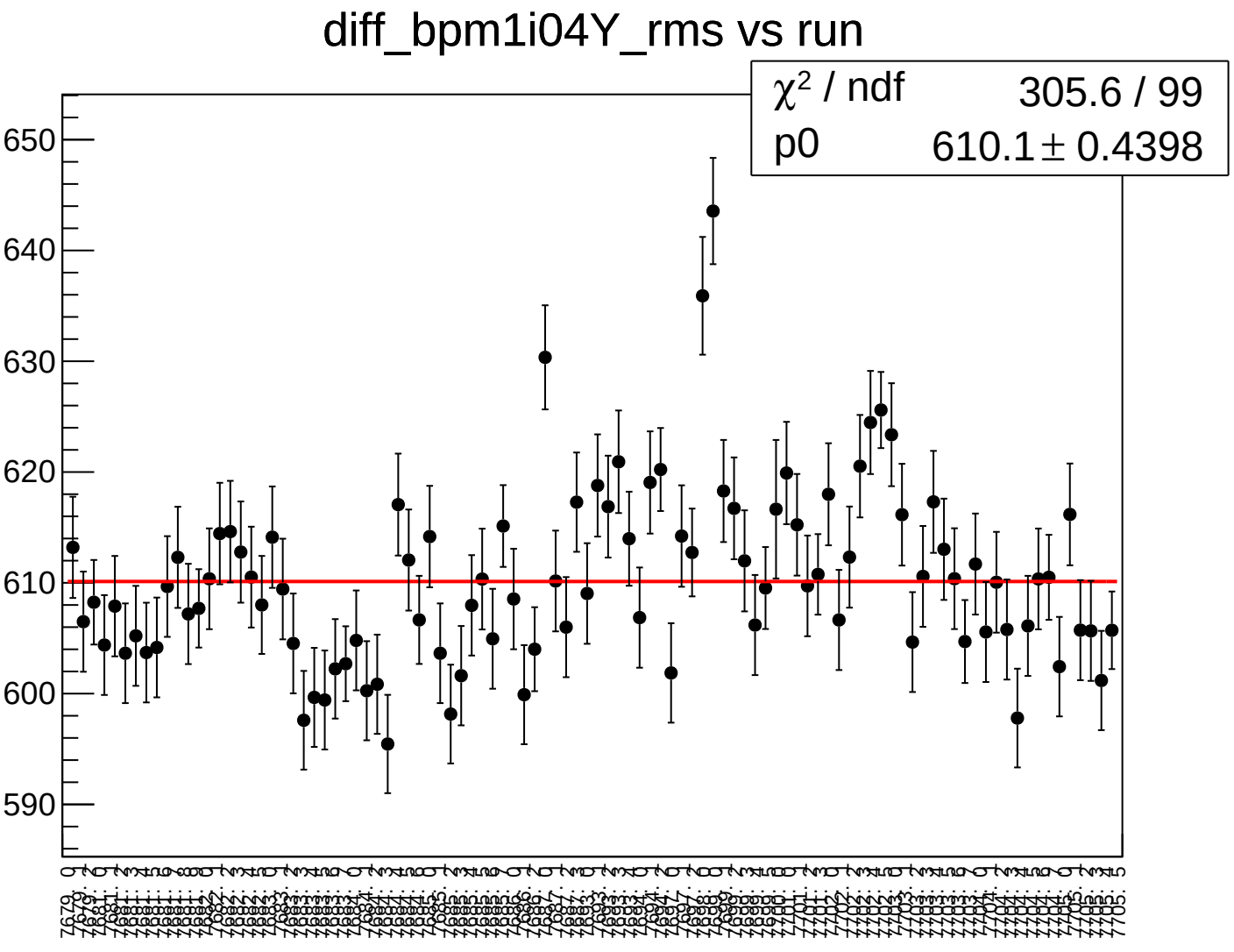

diff_bpm1i04X_mean vs run
χ² / ndf 197.3 / 99
p0 −24.56 ± 0.9551
pull
Entries 100
Mean −2647
Std Dev 0

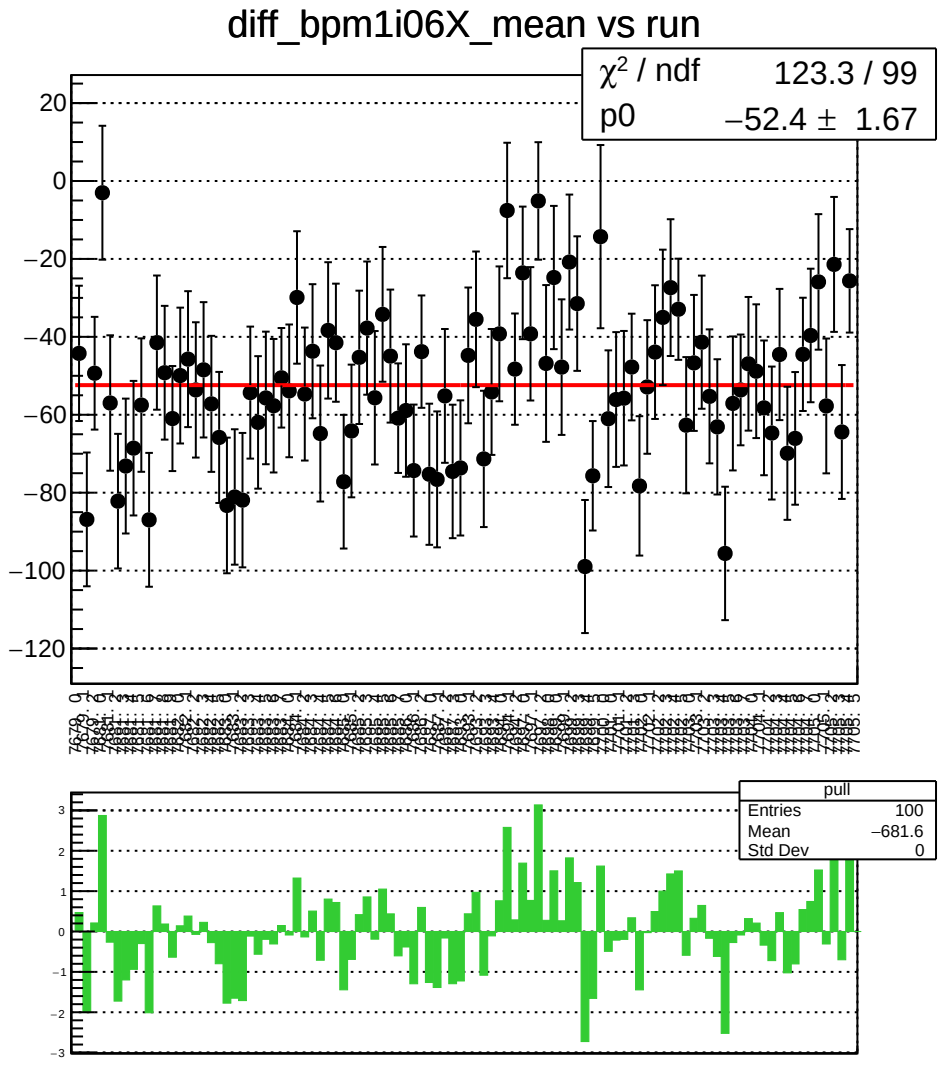

pull1D
Entries 100
Mean −0.006382
Std Dev 1.405

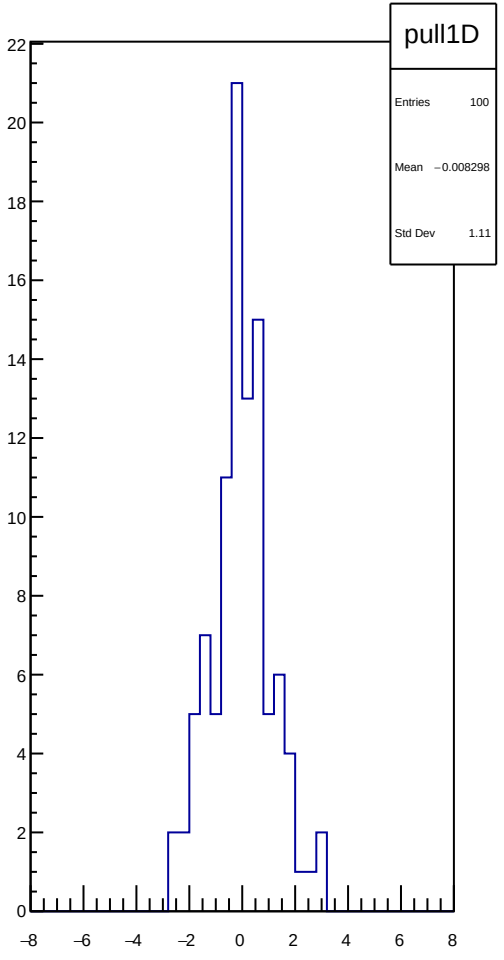

diff_bpm1i04X_rms vs run
χ² / ndf 186.7 / 99
p0 937 ± 0.6753
980
970
960
950
940
930
920
910
900

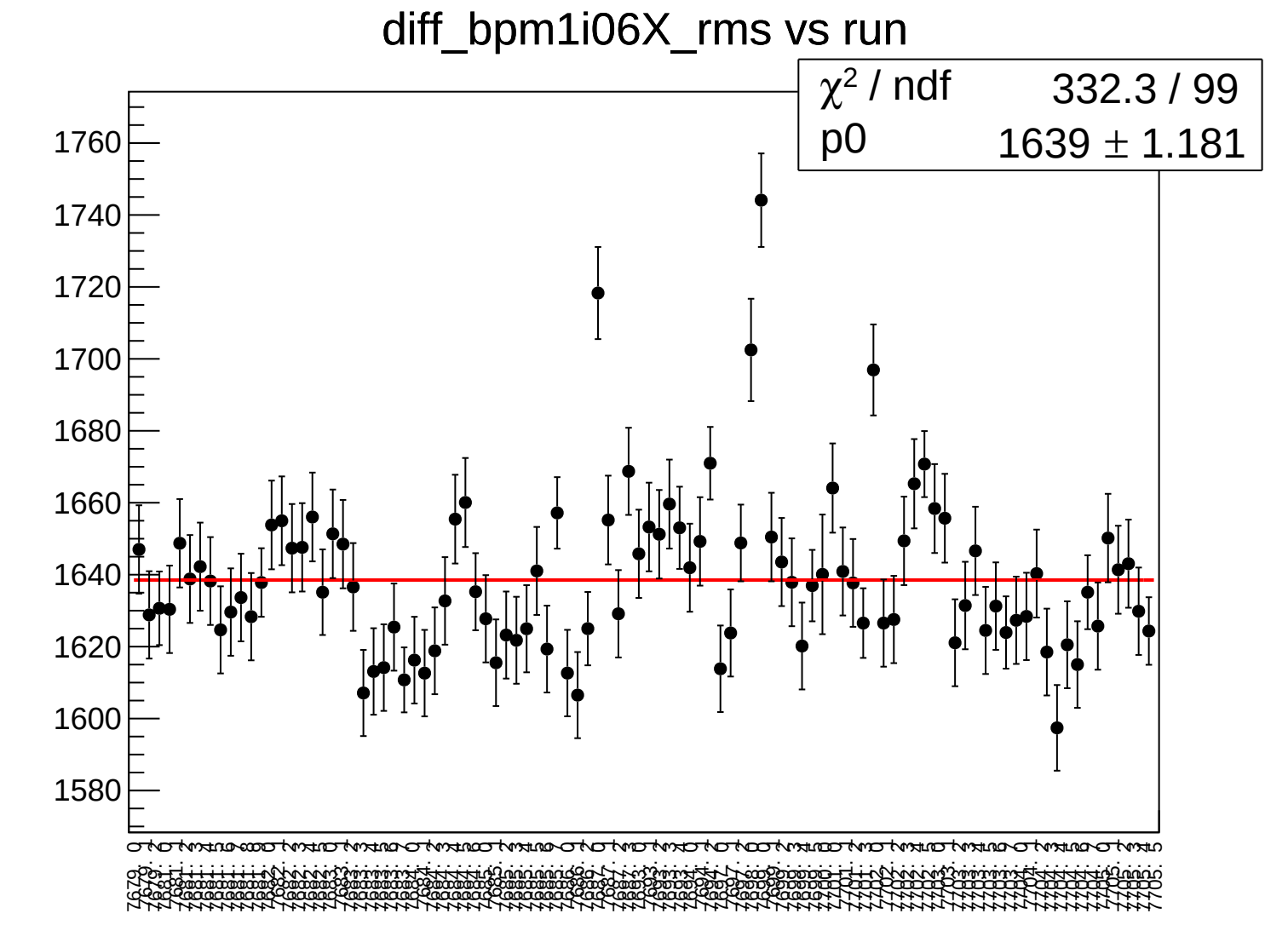

diff_bpm1i04Y_mean vs run
χ² / ndf 122.3 / 99
p0 −1.328 ± 0.6219
pull
Entries 100
Mean 1860
Std Dev 0

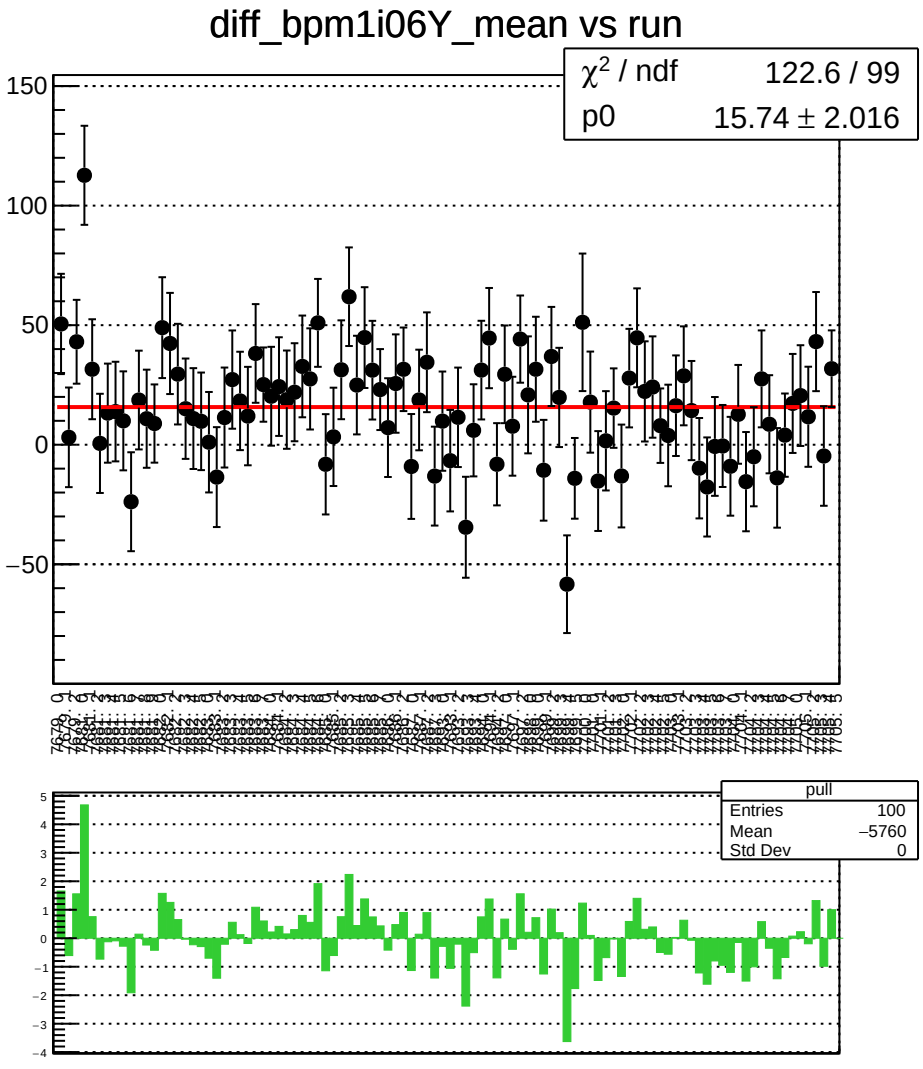

pull1D
Entries 100
Mean −0.004572
Std Dev 1.106

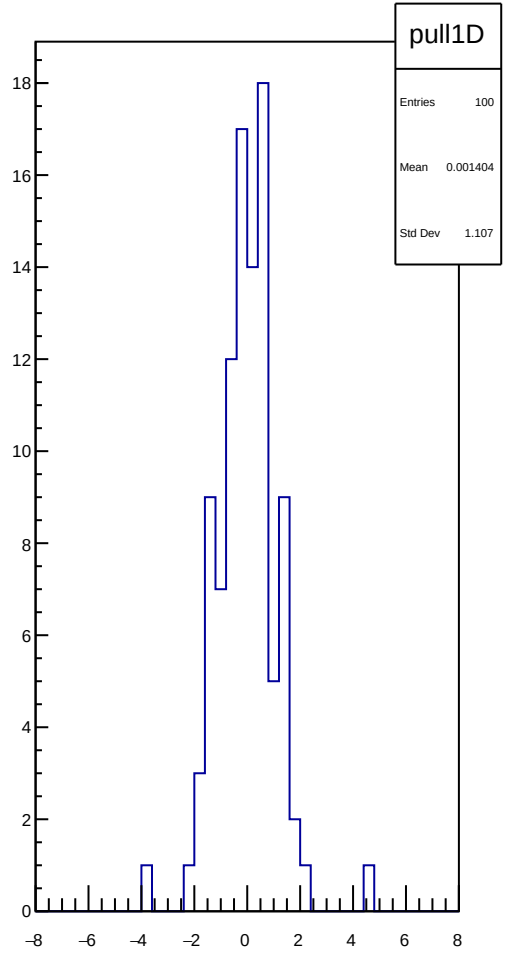

diff_bpm1i04Y_rms vs run
χ² / ndf 305.6 / 99
p0 610.1 ± 0.4398
650
640
630
620
610
600
590

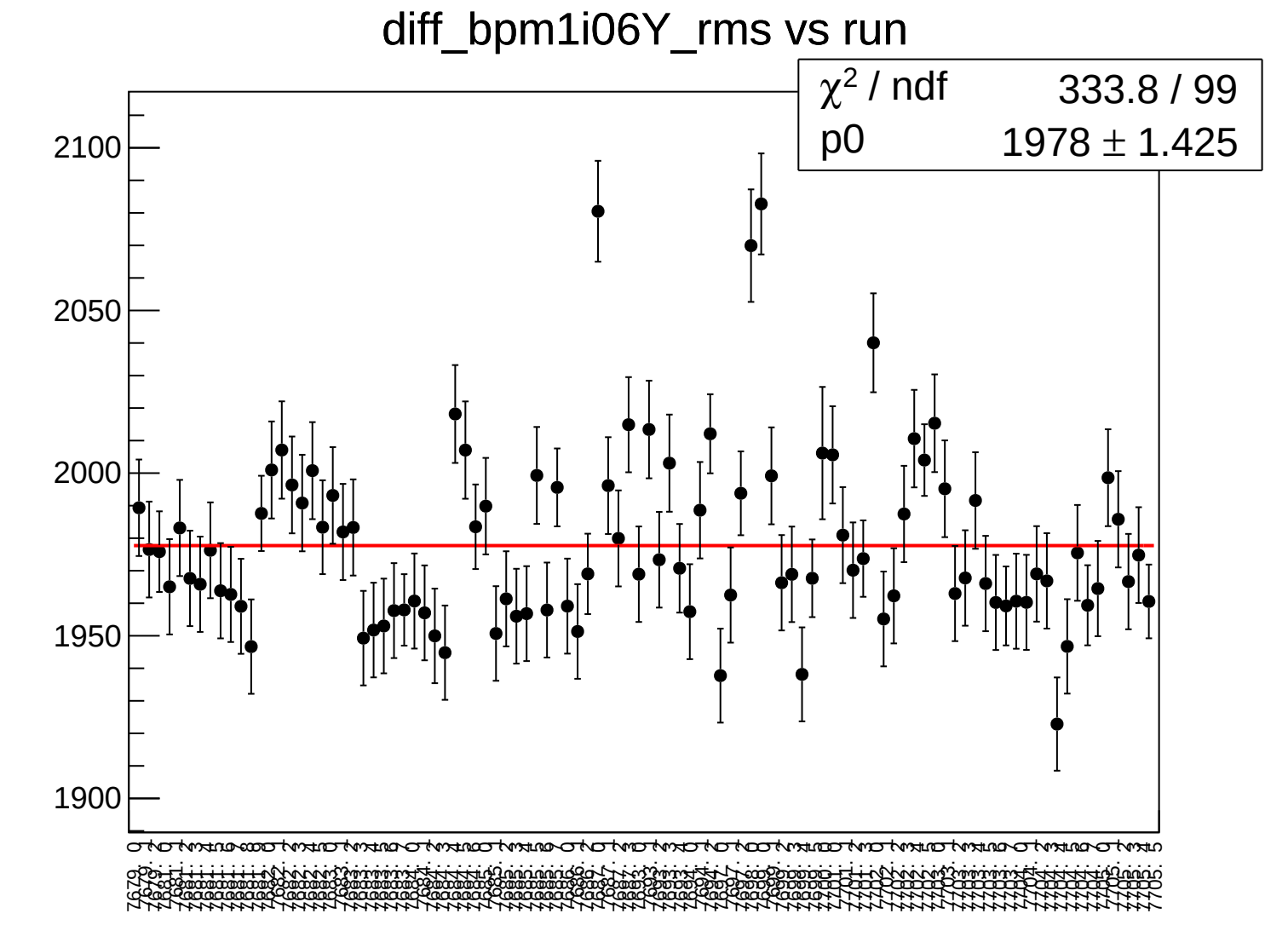

diff_bpm1i06X_mean vs run
χ² / ndf 123.3 / 99
p0 −52.4 ± 1.67
pull
Entries 100
Mean −681.6
Std Dev 0

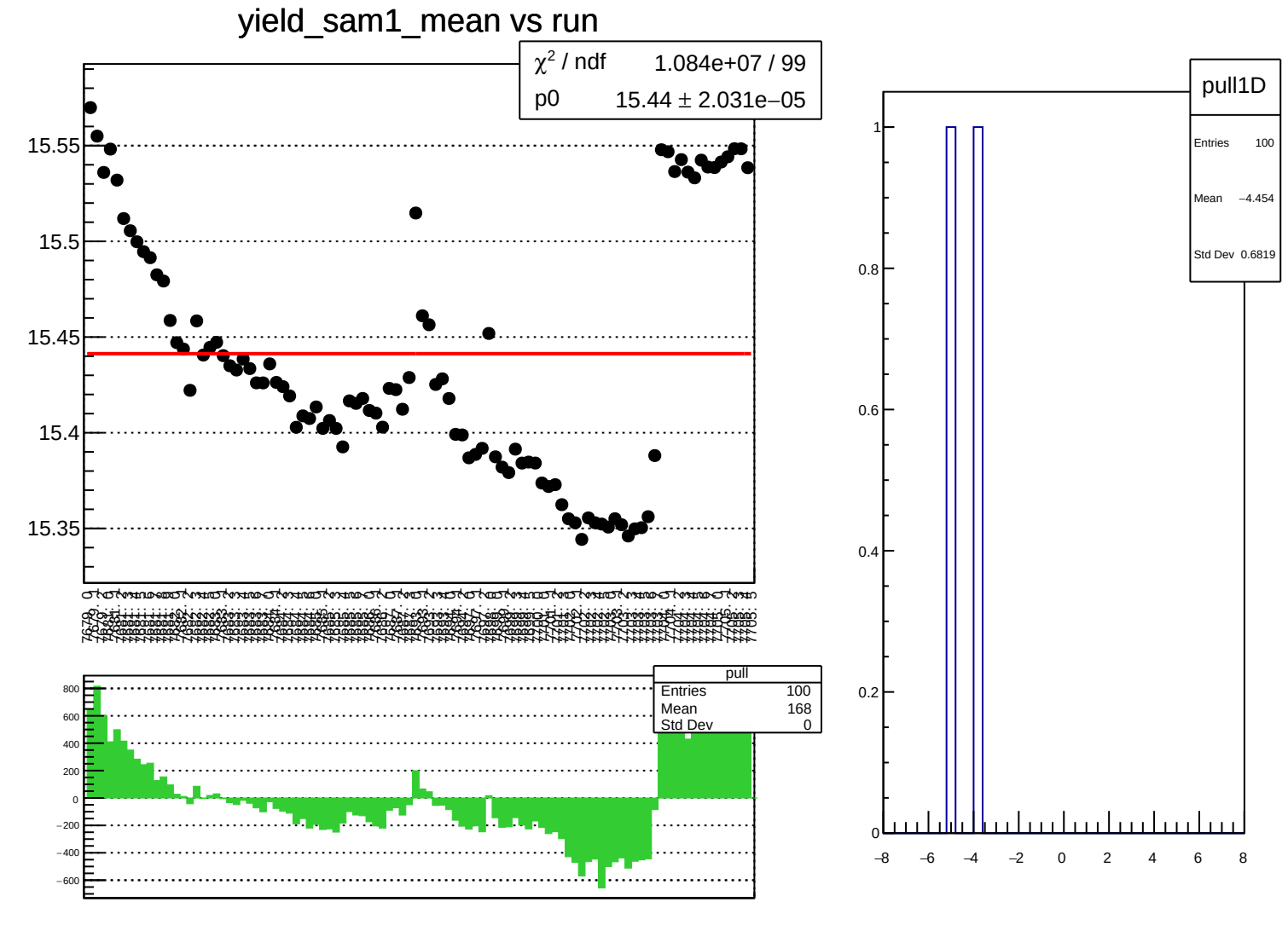

pull1D
Entries 100
Mean −0.008298
Std Dev 1.11

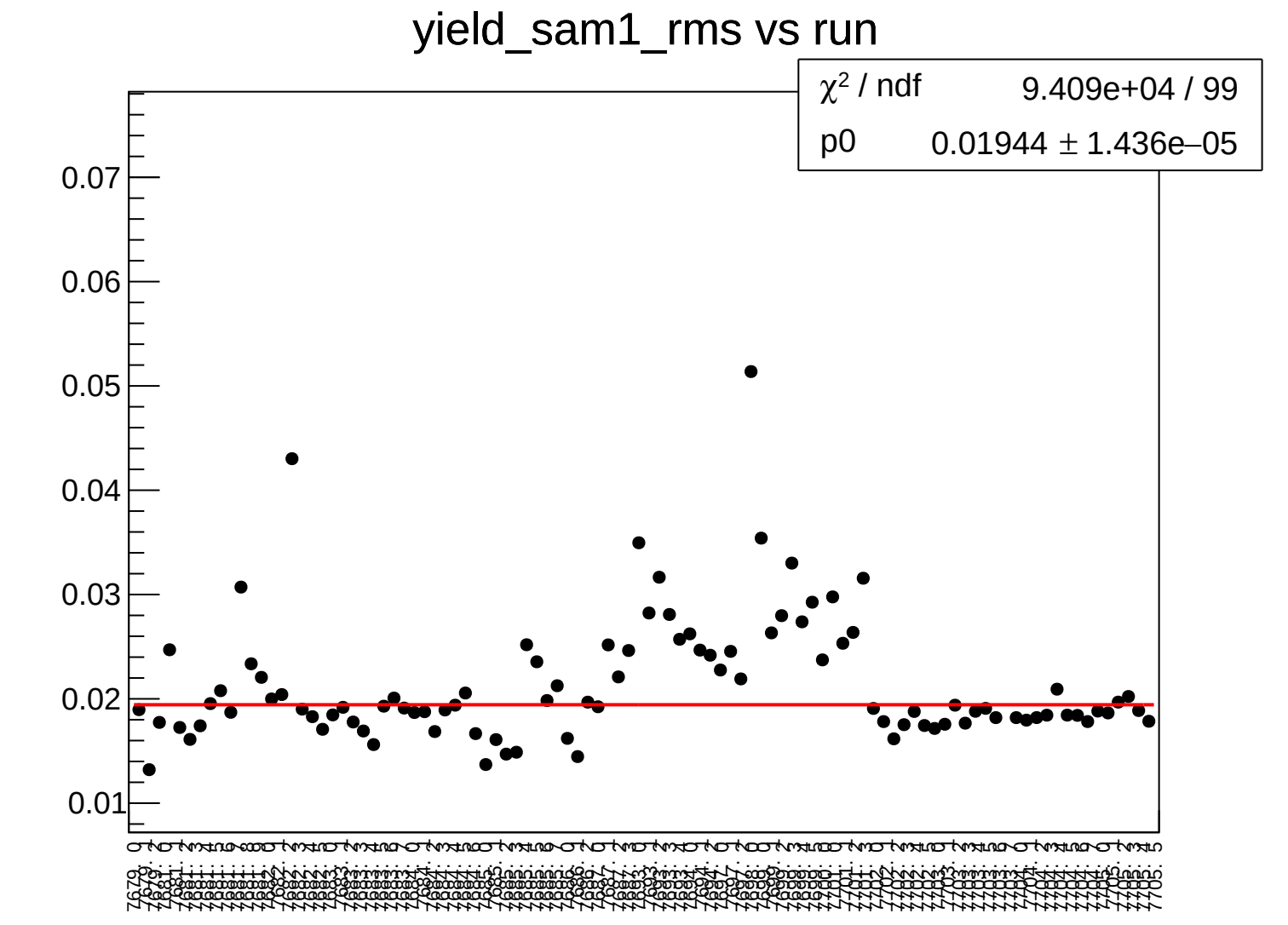

diff_bpm1i06X_rms vs run
χ² / ndf 332.3 / 99
p0 1639 ± 1.181
1760
1740
1720
1700
1680
1660
1640
1620
1600
1580

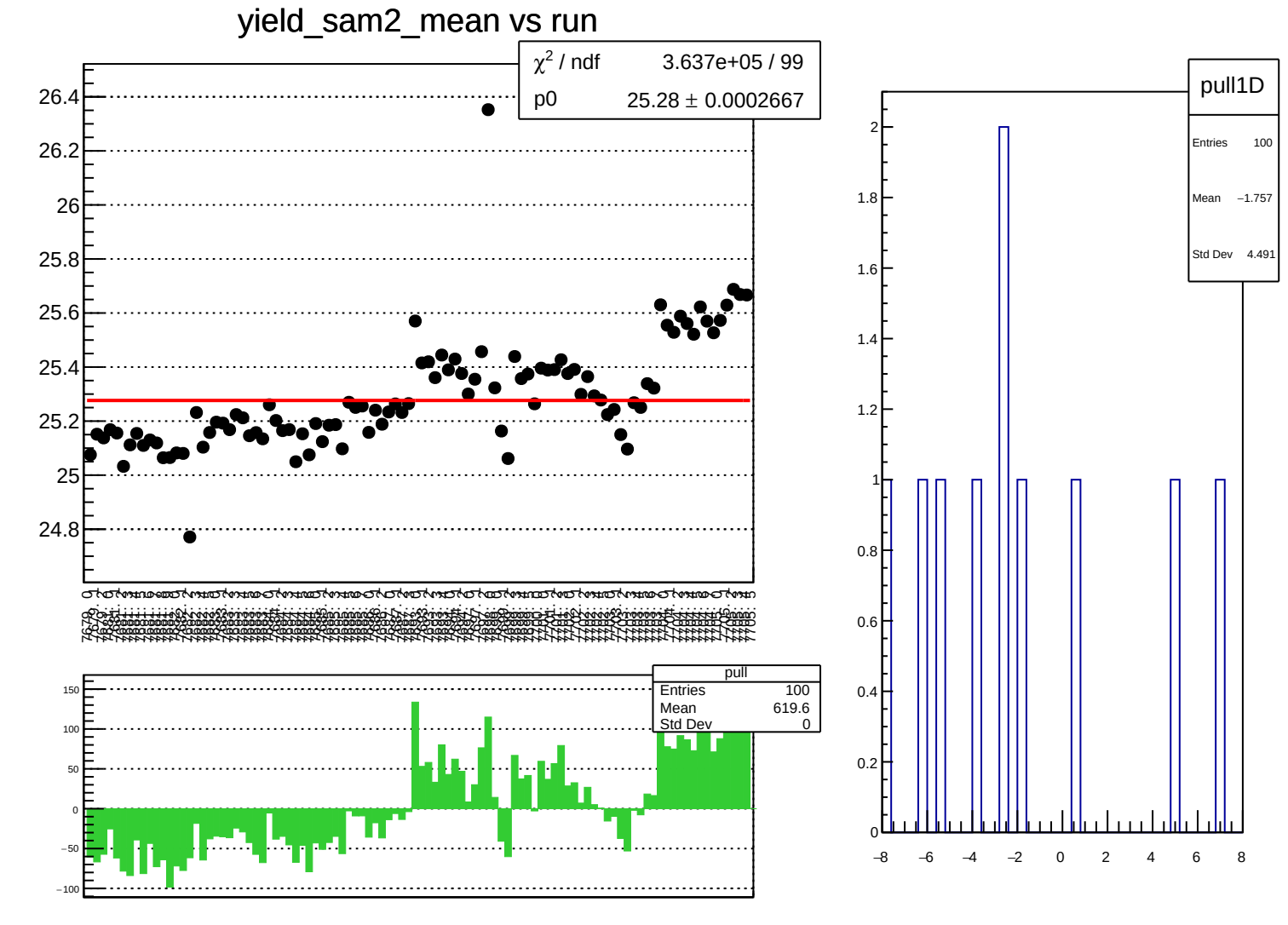

diff_bpm1i06Y_mean vs run
χ^2 / ndf 122.6 / 99
p0 15.74 ± 2.016
150
100
50
0
−50
pull
Entries 100
Mean −5760
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
−4

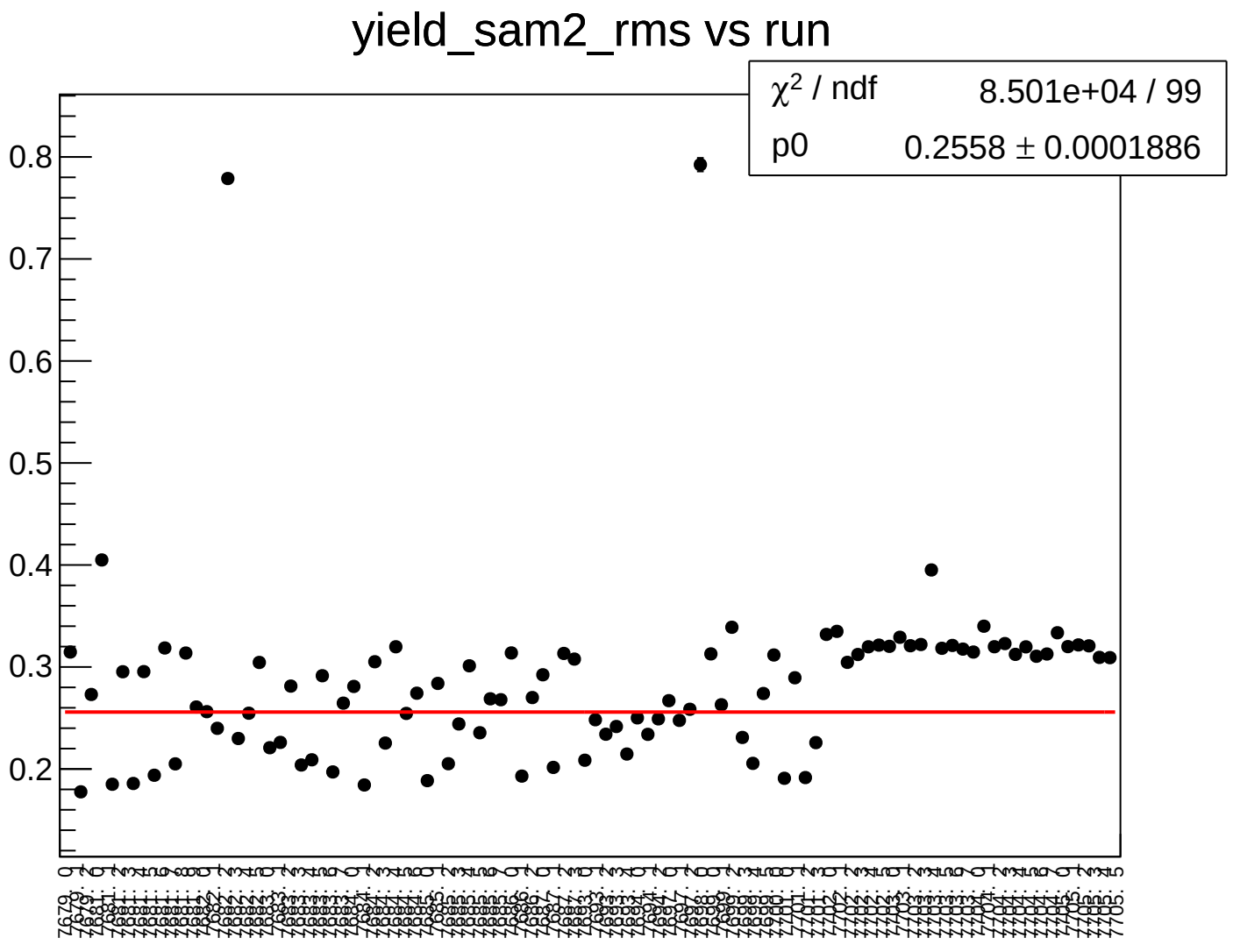

pull1D
Entries 100
Mean 0.001404
Std Dev 1.107
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

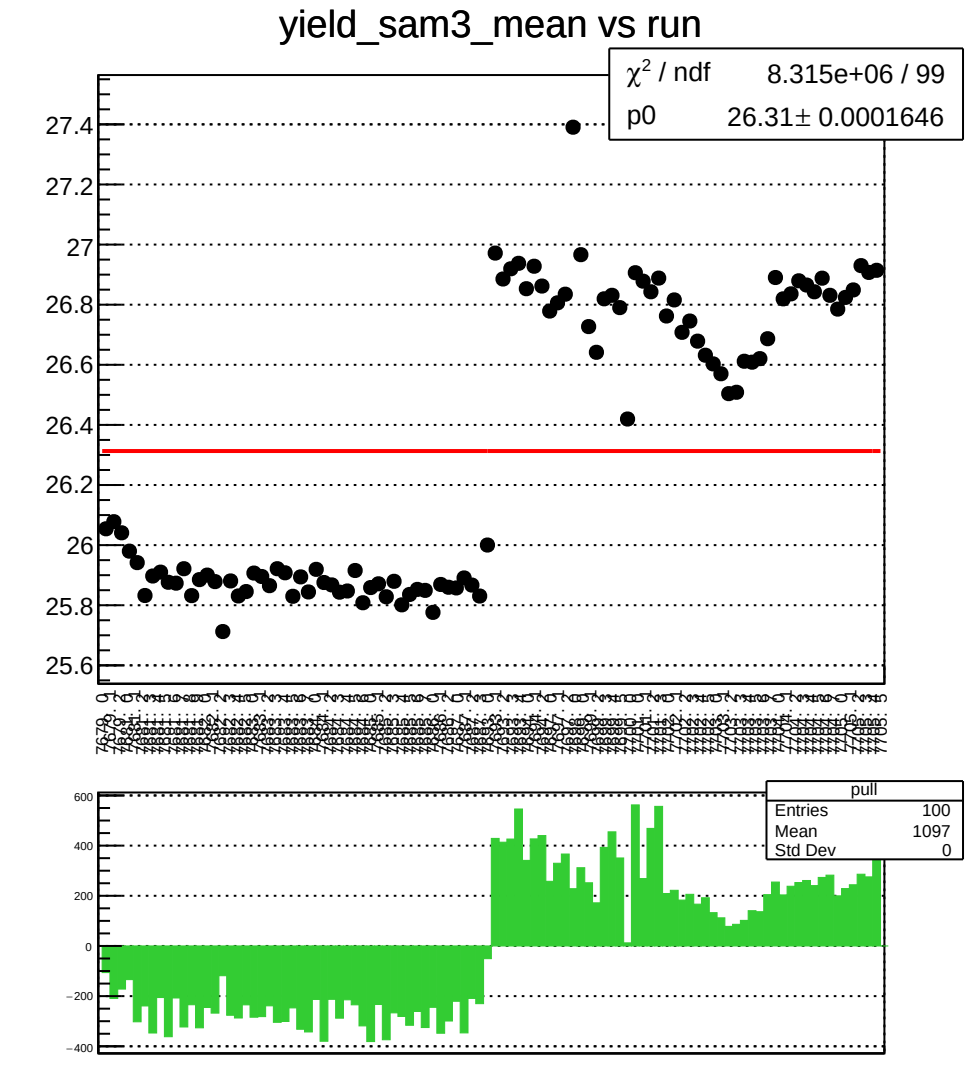

diff_bpm1i06Y_rms vs run
χ^2 / ndf 333.8 / 99
p0 1978 ± 1.425
2100
2050
2000
1950
1900

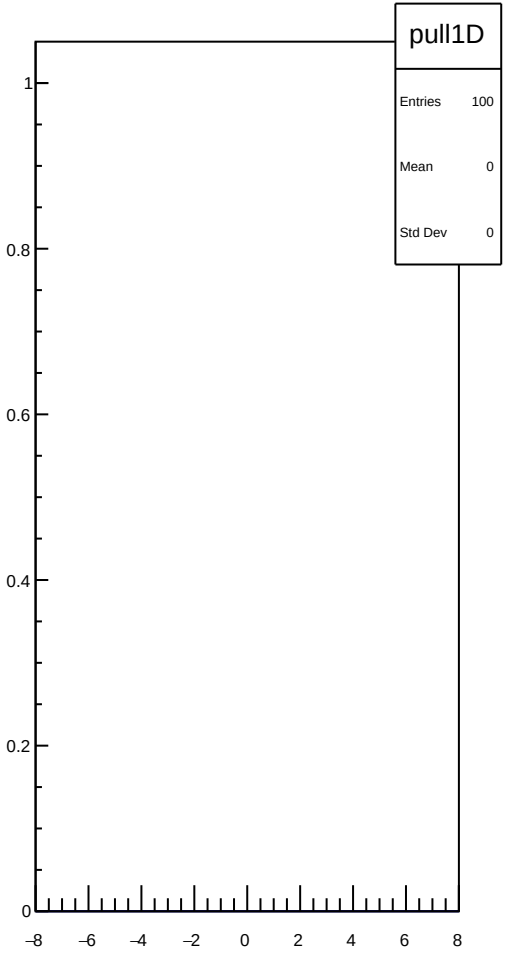

yield_sam1_mean vs run
χ² / ndf 1.084e+07 / 99
p0 15.44 ± 2.031e−05
15.55
15.5
15.45
15.4
15.35
pull
Entries 100
Mean 168
Std Dev 0
800
600
400
200
0
−200
−400
−600
pull1D
Entries 100
Mean −4.454
Std Dev 0.6819
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

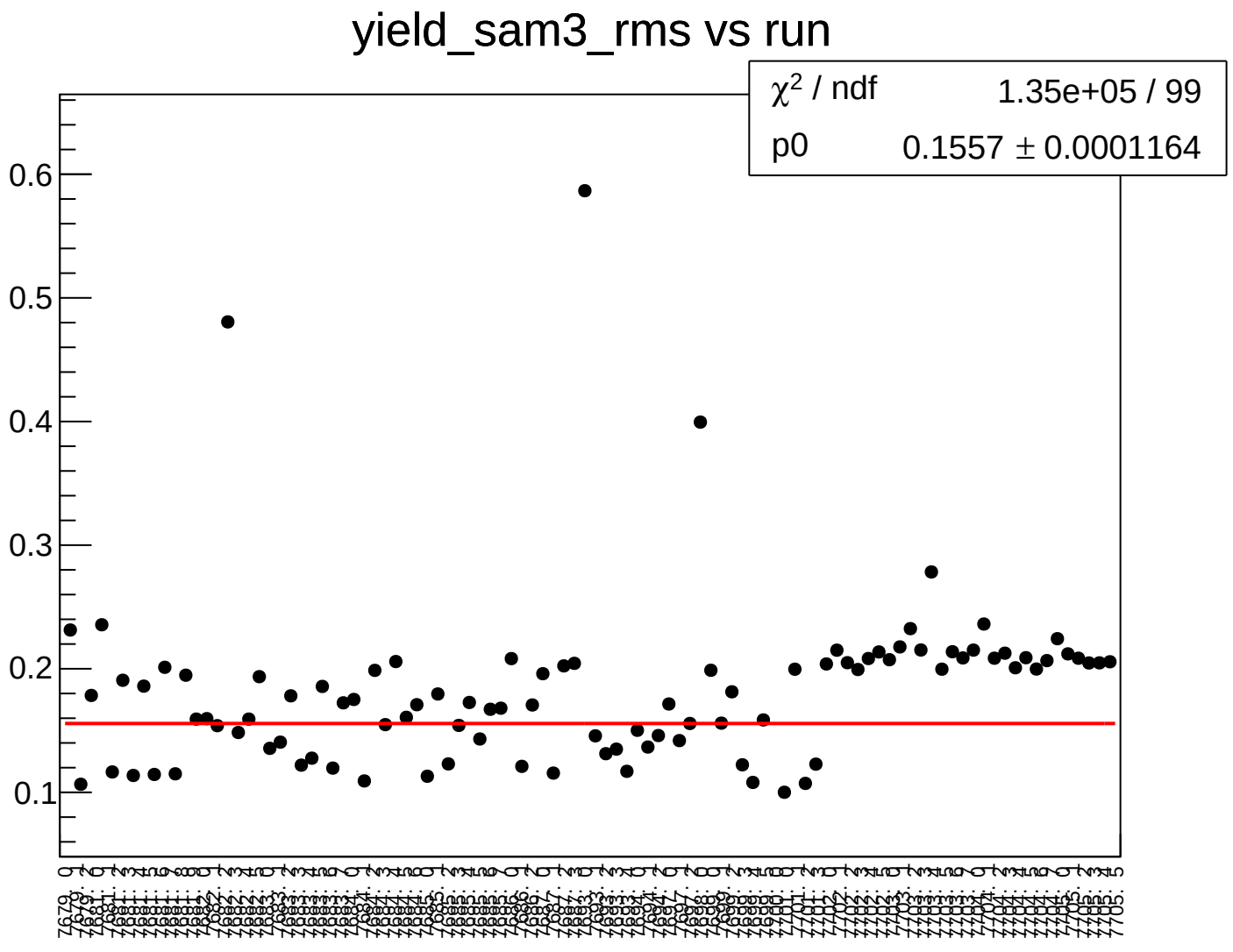

yield_sam1_rms vs run
χ^2 / ndf 9.409e+04 / 99
p0 0.01944 ± 1.436e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

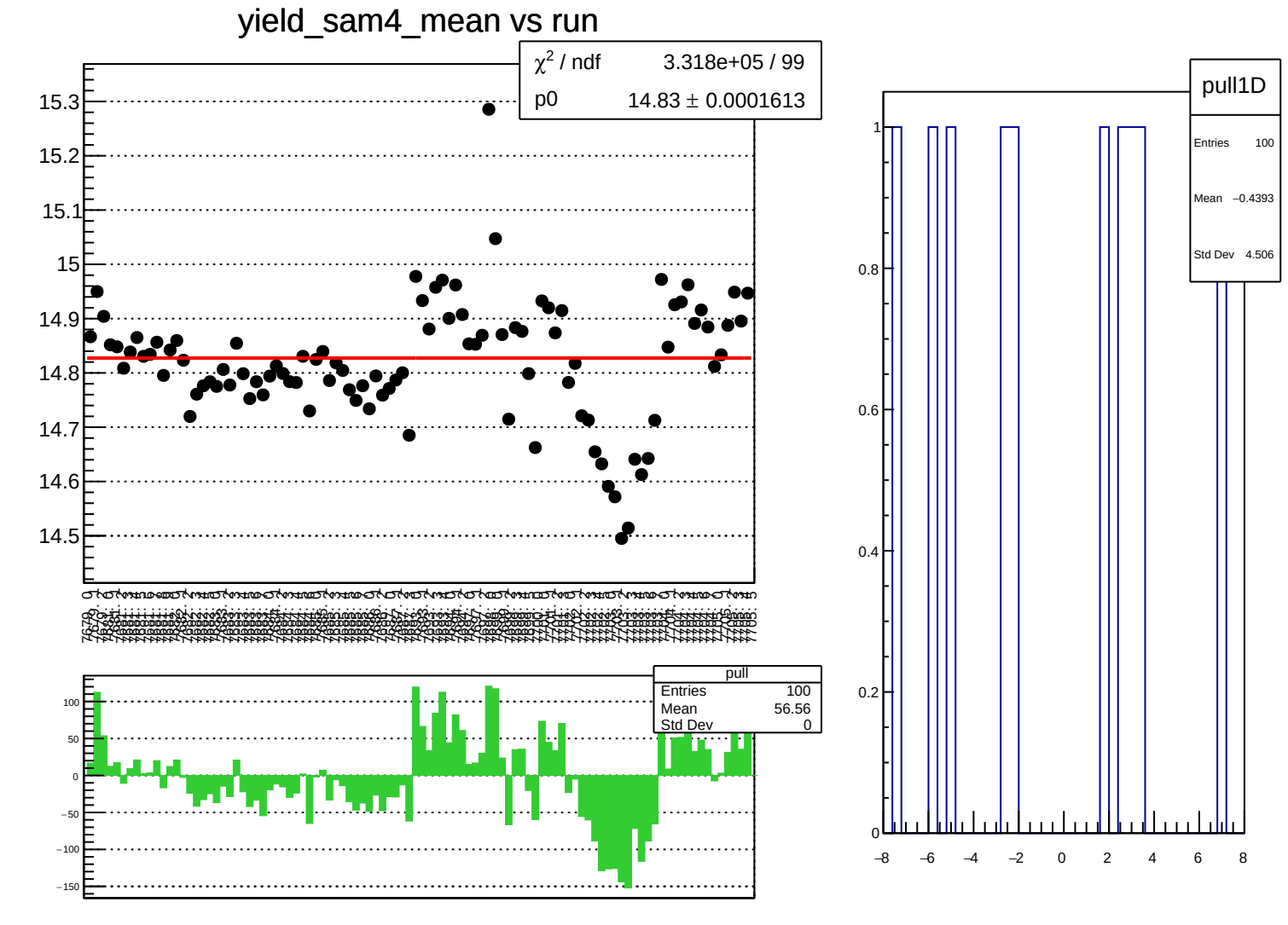

yield_sam2_mean vs run
χ² / ndf 3.637e+05 / 99
p0 25.28 ± 0.0002667
pull
Entries 100
Mean 619.6
Std Dev 0
pull1D
Entries 100
Mean −1.757
Std Dev 4.491

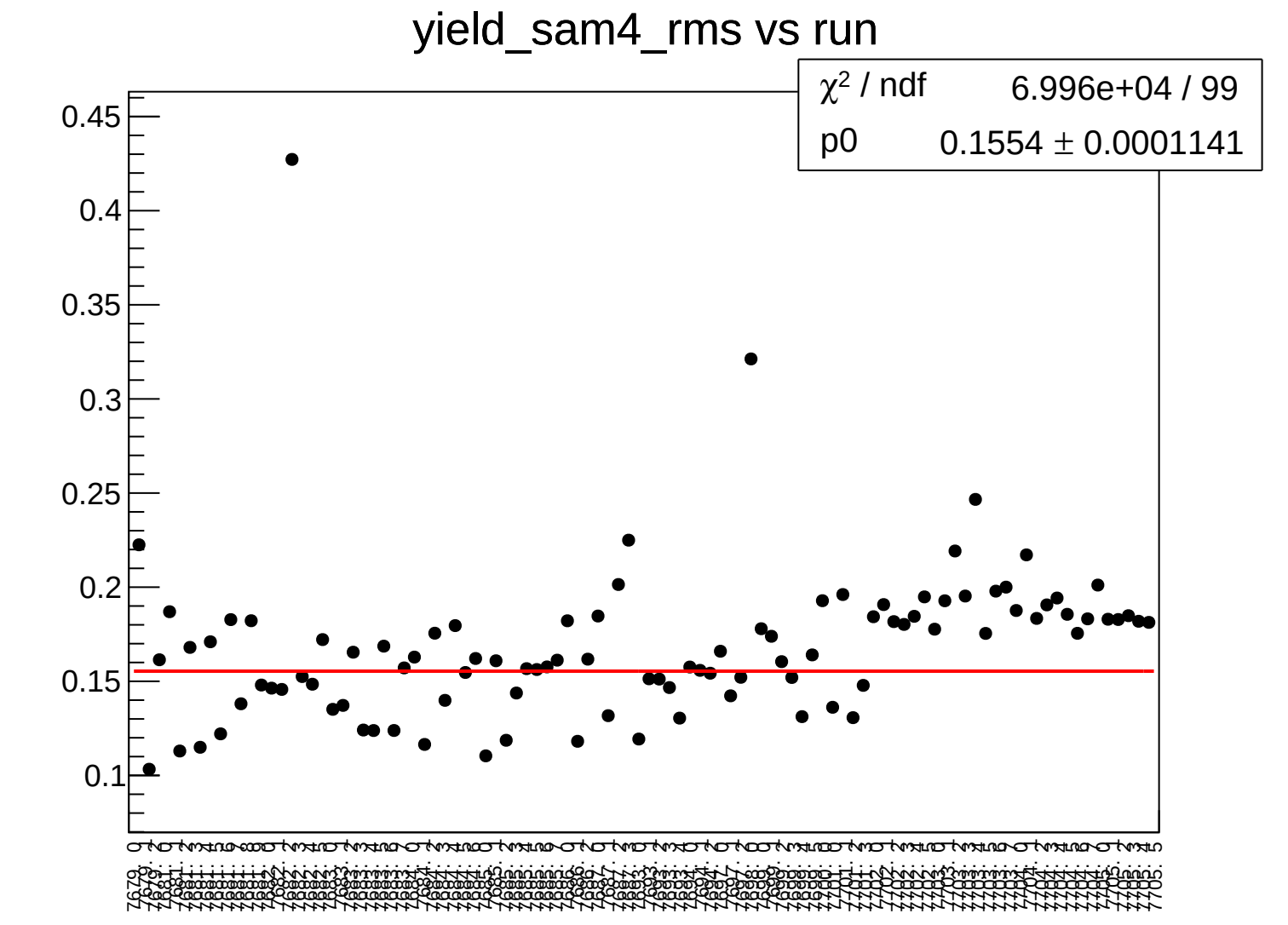

yield_sam2_rms vs run
χ² / ndf 8.501e+04 / 99
p0 0.2558 ± 0.0001886
0.8
0.7
0.6
0.5
0.4
0.3
0.2

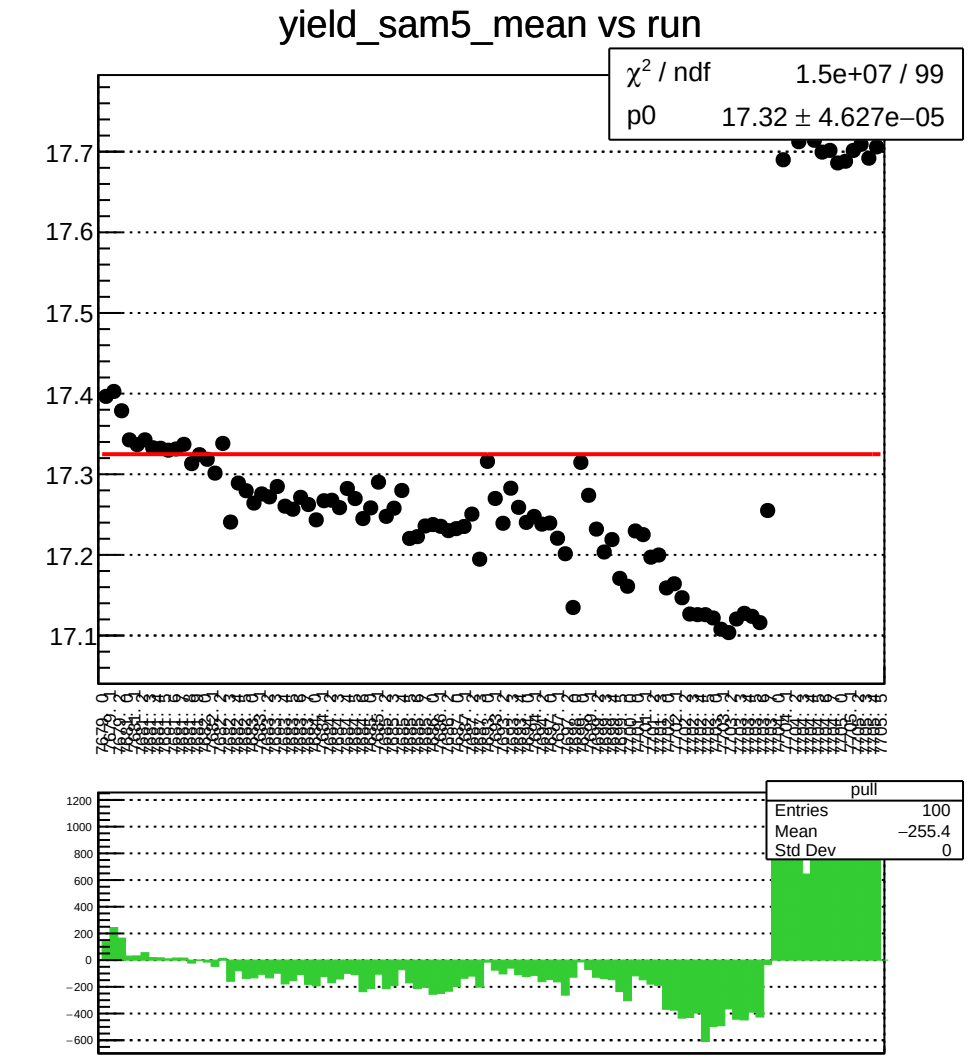

yield_sam3_mean vs run
χ² / ndf 8.315e+06 / 99
p0 26.31± 0.0001646
27.4
27.2
27
26.8
26.6
26.4
26.2
26
25.8
25.6
pull
Entries 100
Mean 1097
Std Dev 0
600
400
200
0
−200
−400

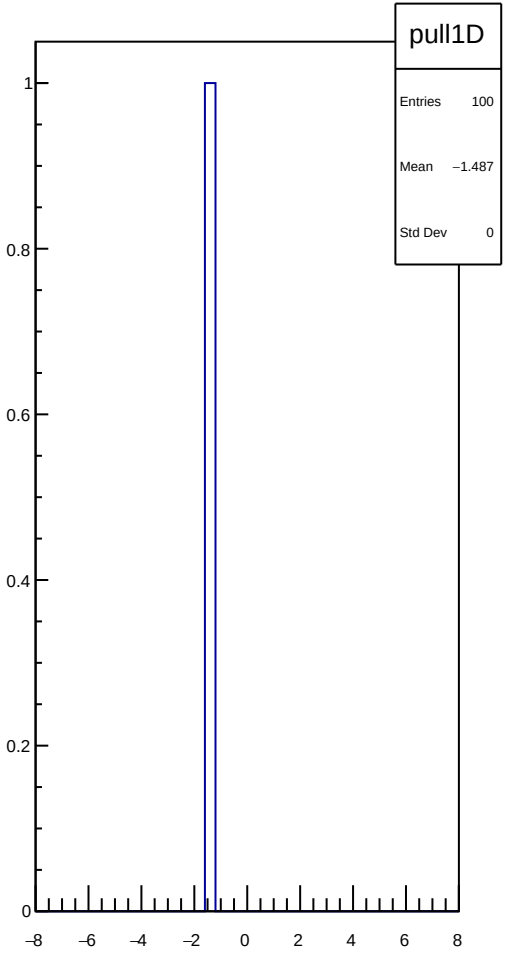

pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

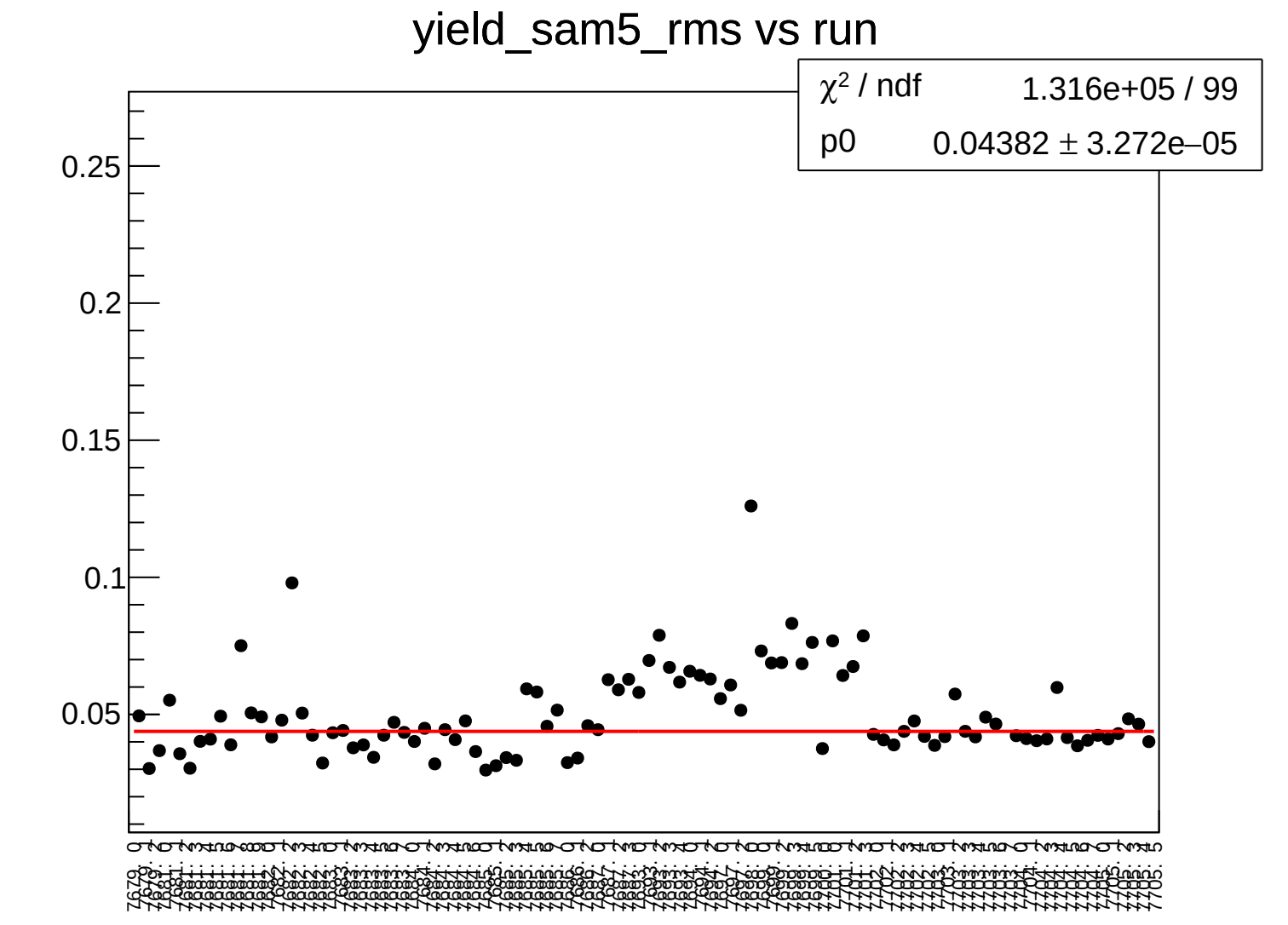

yield_sam3_rms vs run
χ² / ndf 1.35e+05 / 99
p0 0.1557 ± 0.0001164
0.6
0.5
0.4
0.3
0.2
0.1

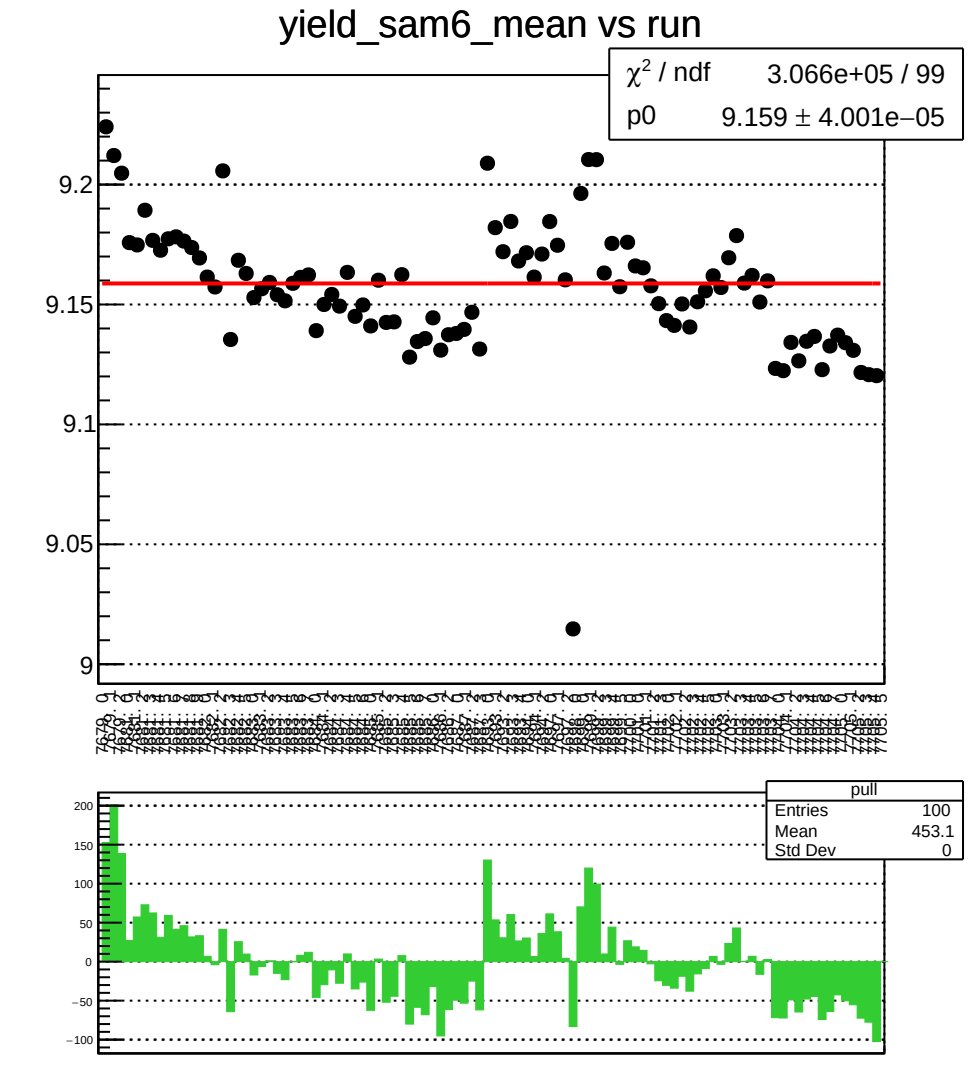

yield_sam4_mean vs run
χ² / ndf 3.318e+05 / 99
p0 14.83 ± 0.0001613
15.3
15.2
15.1
15
14.9
14.8
14.7
14.6
14.5
pull
Entries 100
Mean 56.56
Std Dev 0
100
50
0
−50
−100
−150
pull1D
Entries 100
Mean −0.4393
Std Dev 4.506
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

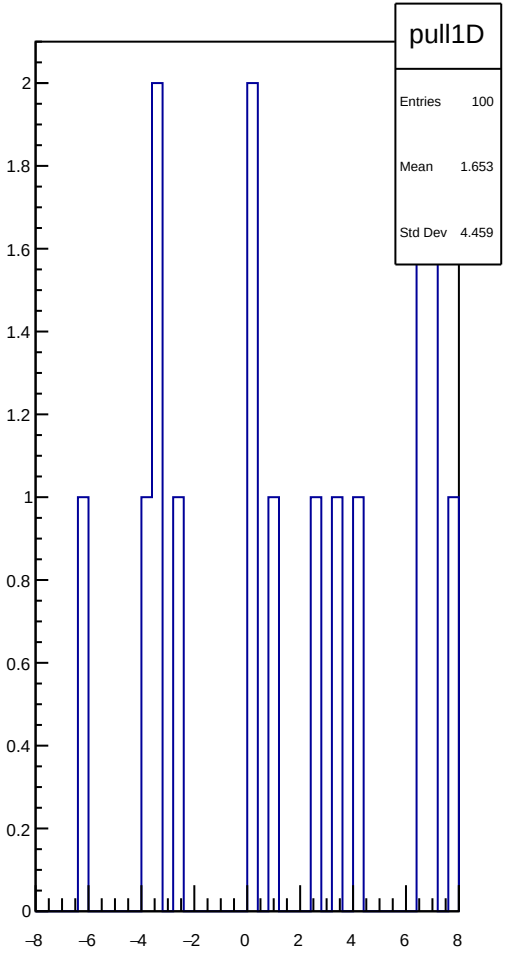

yield_sam4_rms vs run
χ² / ndf 6.996e+04 / 99
p0 0.1554 ± 0.0001141
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1

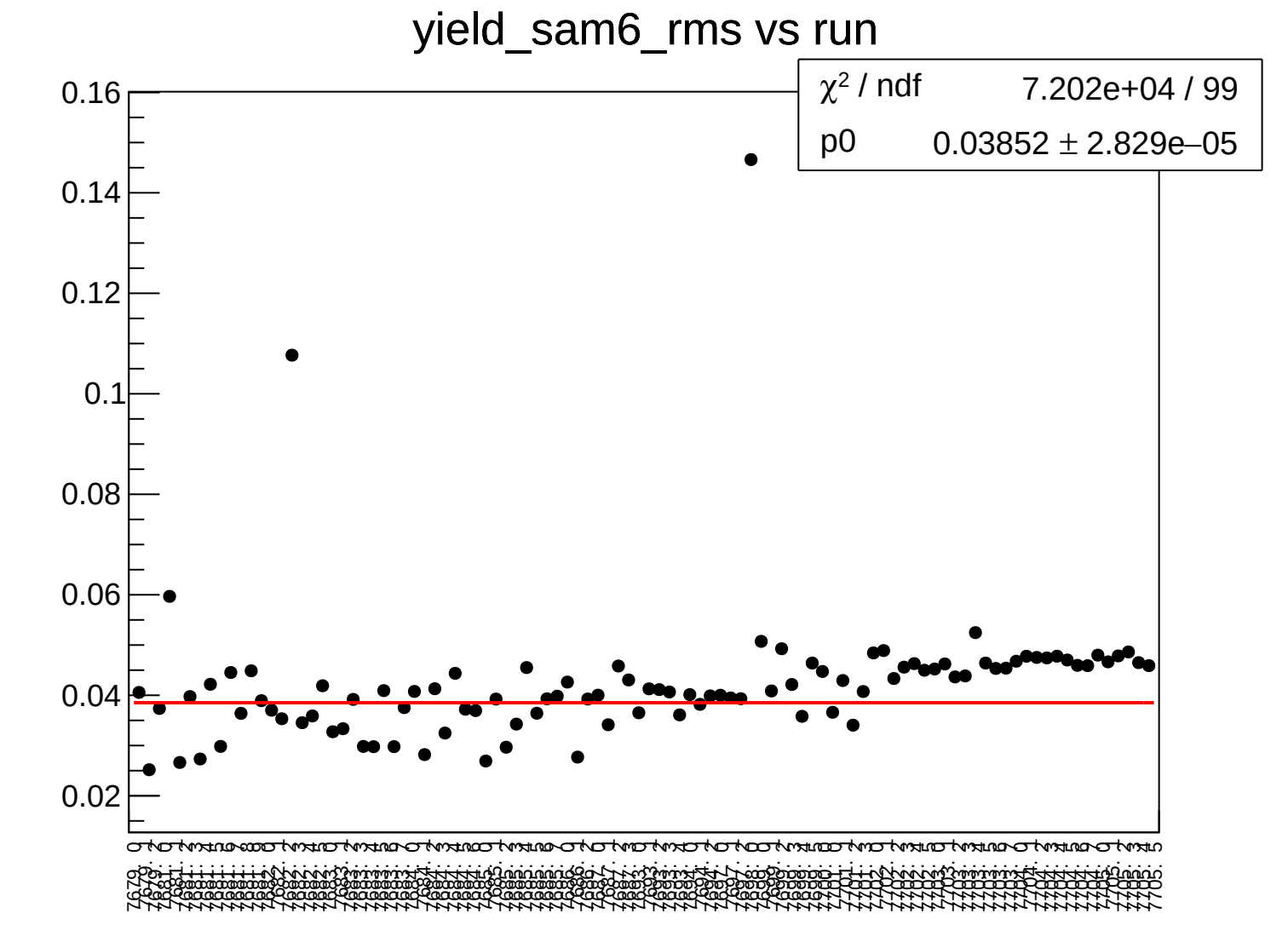

yield_sam5_mean vs run
χ² / ndf 1.5e+07 / 99
p0 17.32 ± 4.627e−05
17.7
17.6
17.5
17.4
17.3
17.2
17.1
pull
Entries 100
Mean −255.4
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600

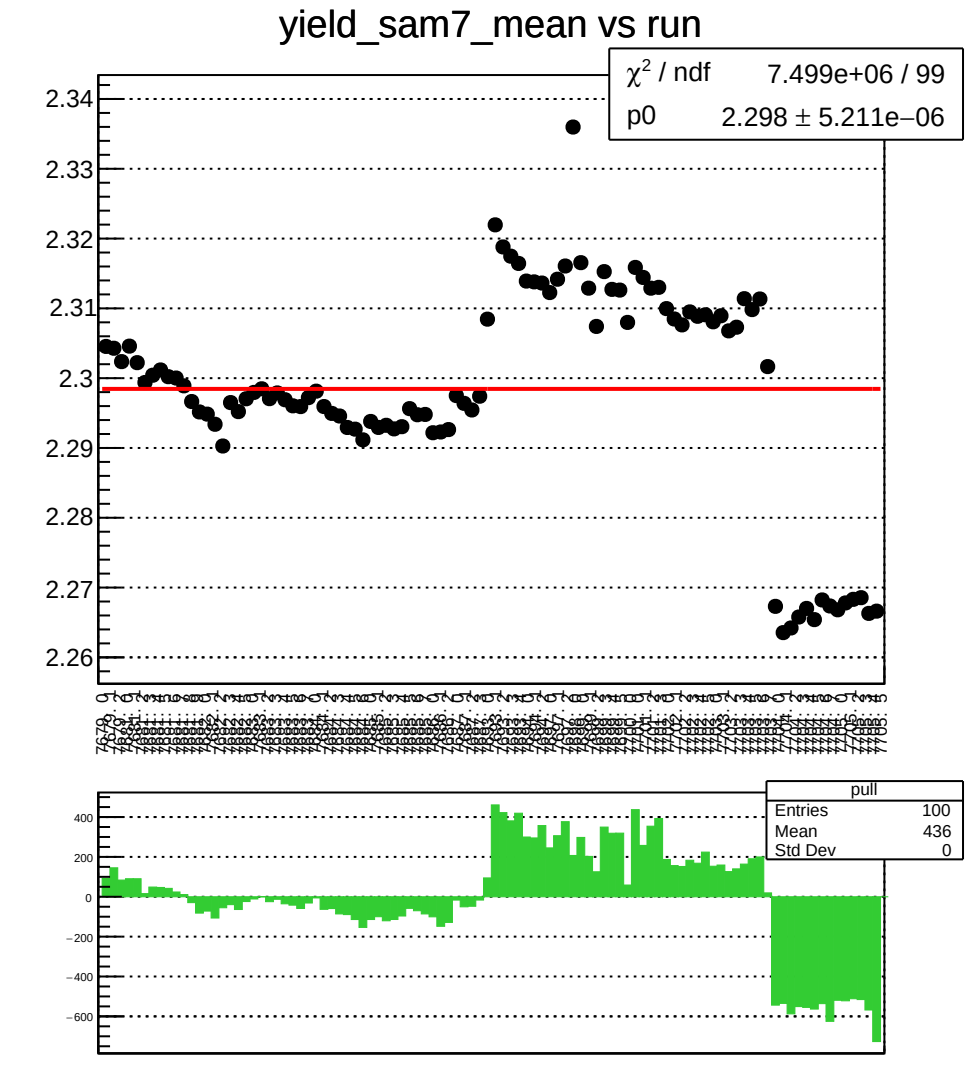

pull1D
Entries 100
Mean −1.487
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

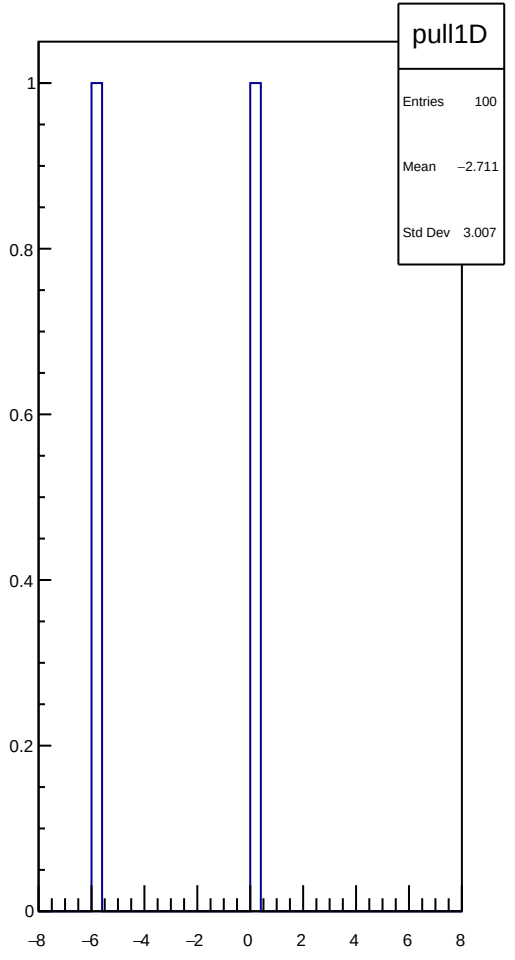

yield_sam5_rms vs run
χ² / ndf 1.316e+05 / 99
p0 0.04382 ± 3.272e–05
0.25
0.2
0.15
0.1
0.05

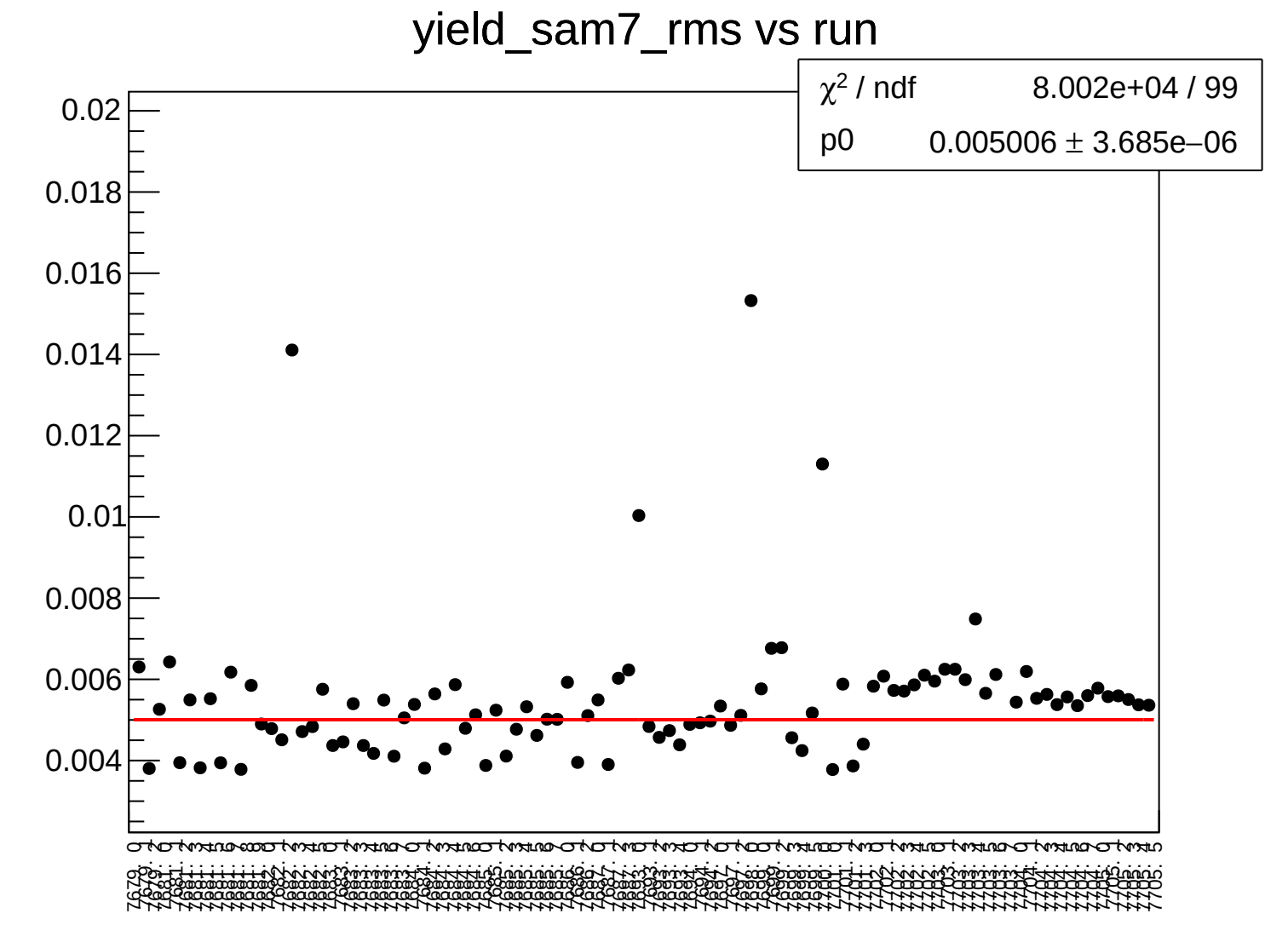

yield_sam6_mean vs run
χ² / ndf 3.066e+05 / 99
p0 9.159 ± 4.001e−05
9.2
9.15
9.1
9.05
9
pull
Entries 100
Mean 453.1
Std Dev 0
200
150
100
50
0
−50
−100

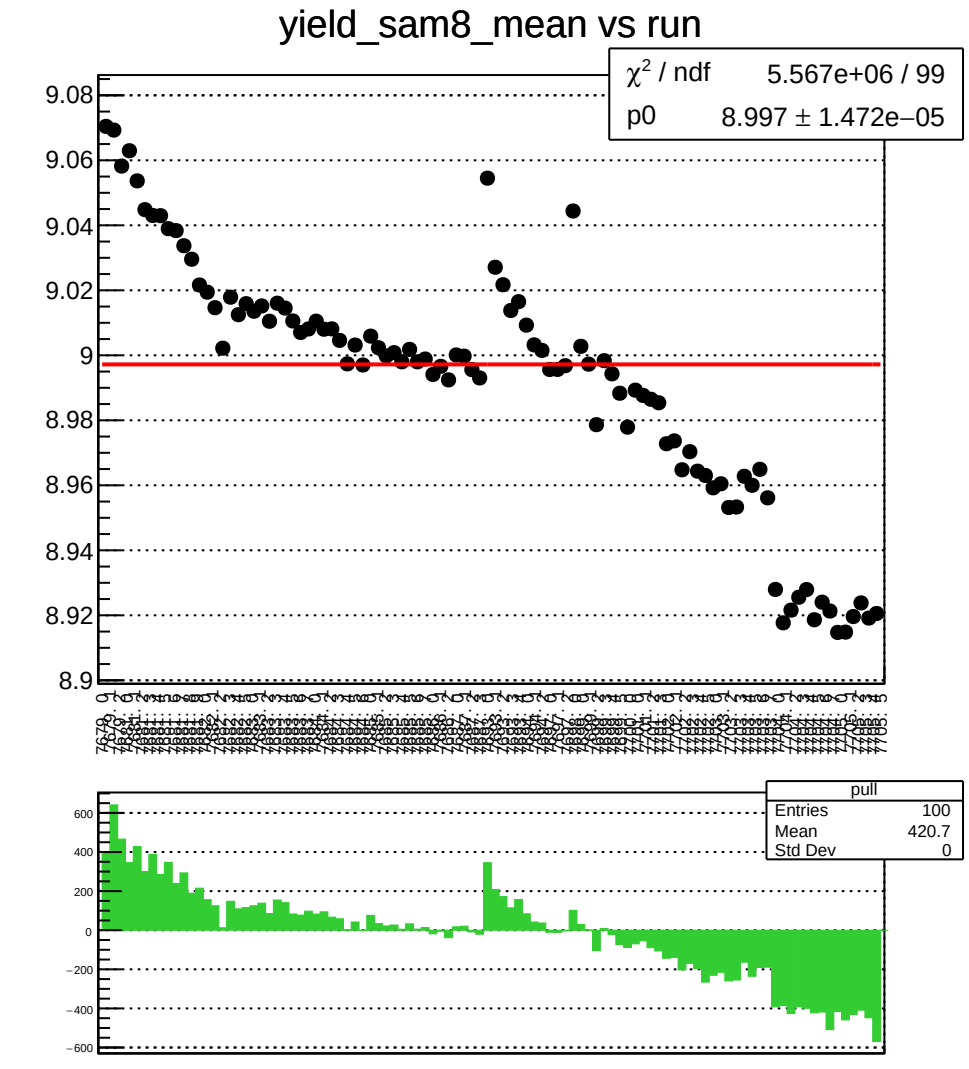

pull1D
Entries 100
Mean 1.653
Std Dev 4.459
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

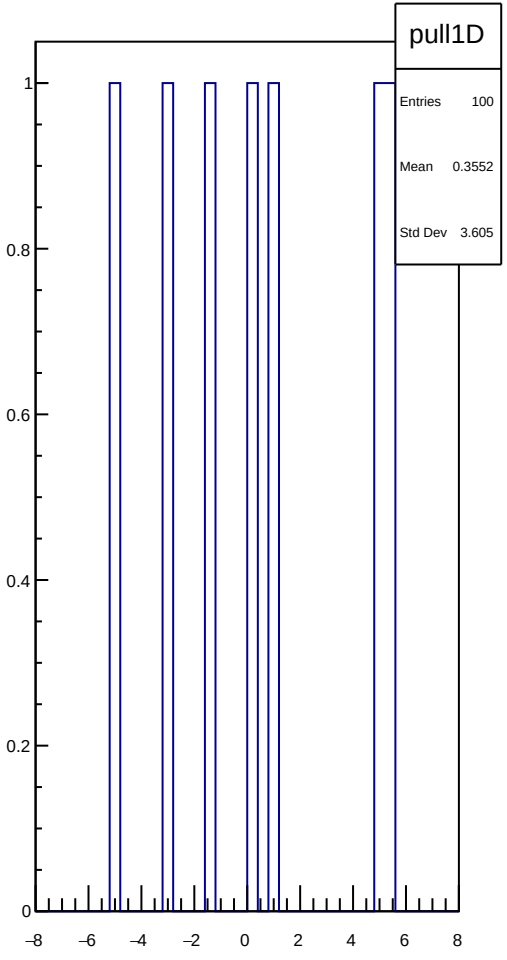

yield_sam6_rms vs run
χ² / ndf 7.202e+04 / 99
p0 0.03852 ± 2.829e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

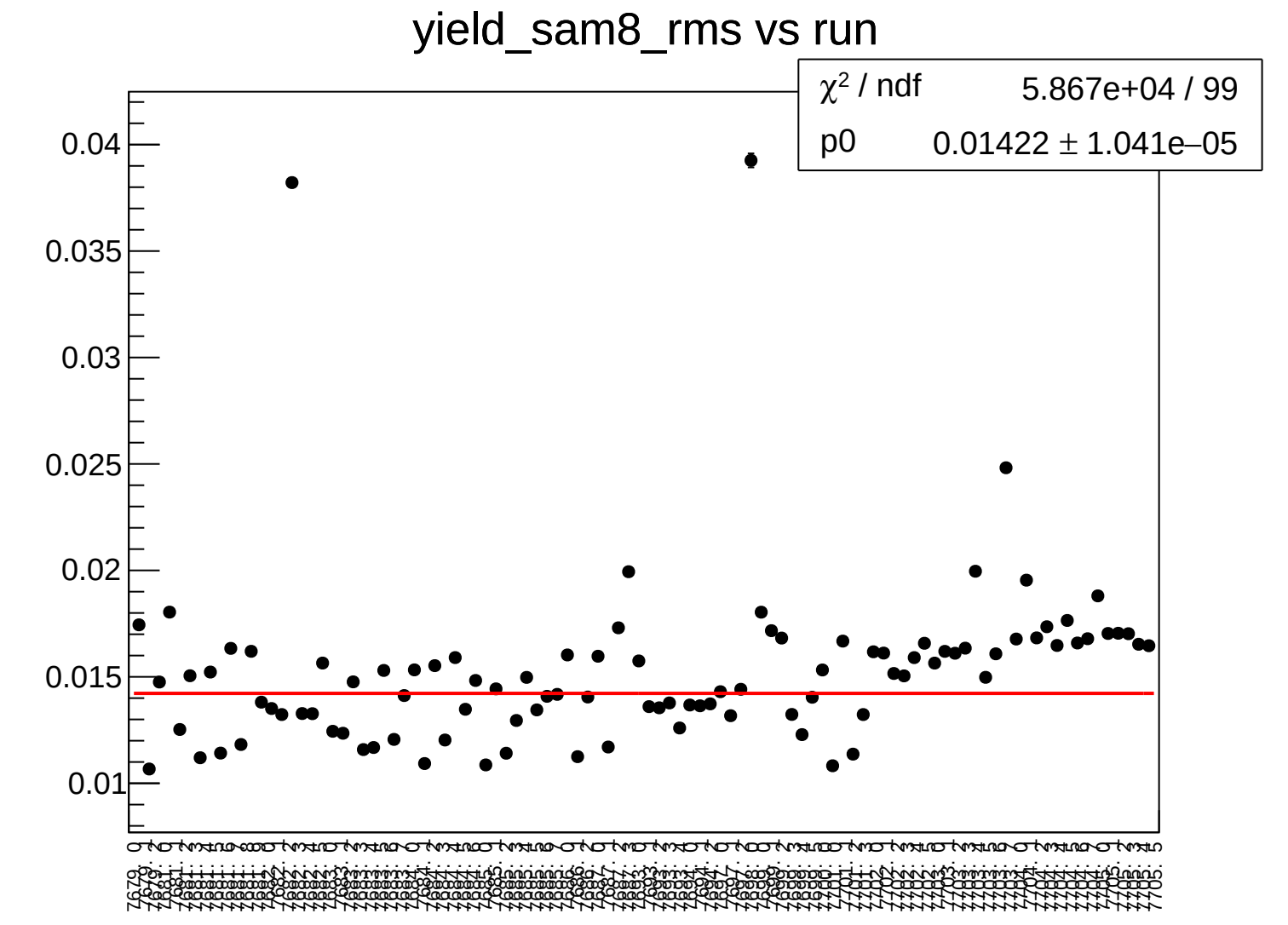

yield_sam7_mean vs run
χ² / ndf 7.499e+06 / 99
p0 2.298 ± 5.211e−06
2.34
2.33
2.32
2.31
2.3
2.29
2.28
2.27
2.26
pull
Entries 100
Mean 436
Std Dev 0
400
200
0
−200
−400
−600

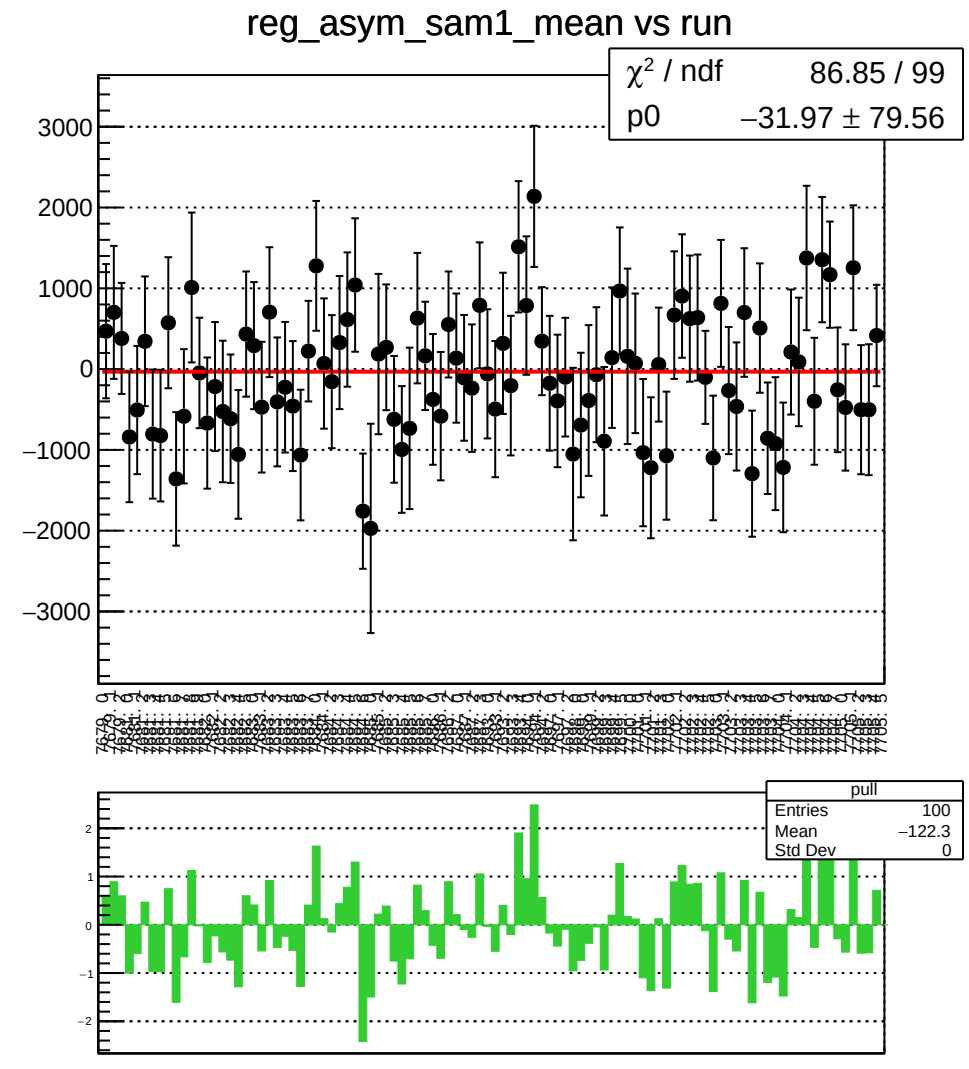

pull1D
Entries 100
Mean −2.711
Std Dev 3.007
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

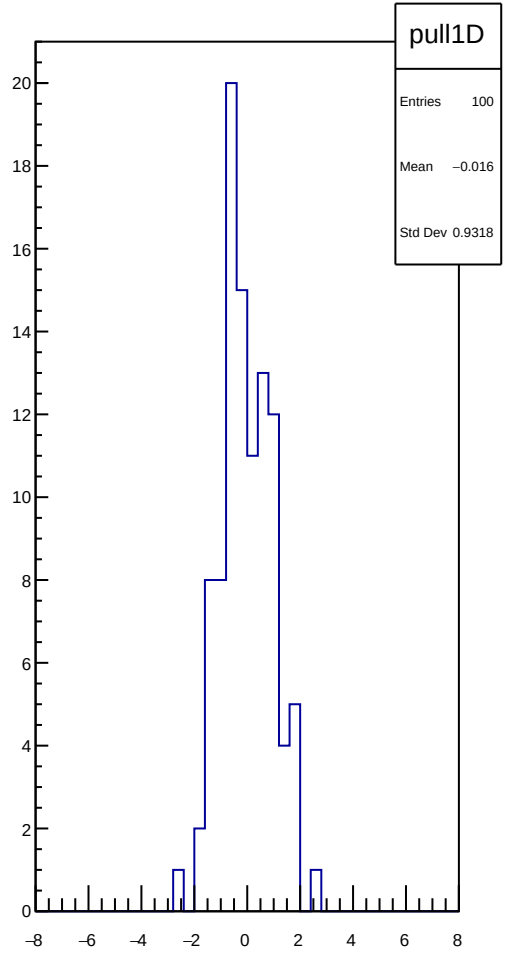

yield_sam7_rms vs run
χ^2 / ndf 8.002e+04 / 99
p0 0.005006 ± 3.685e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

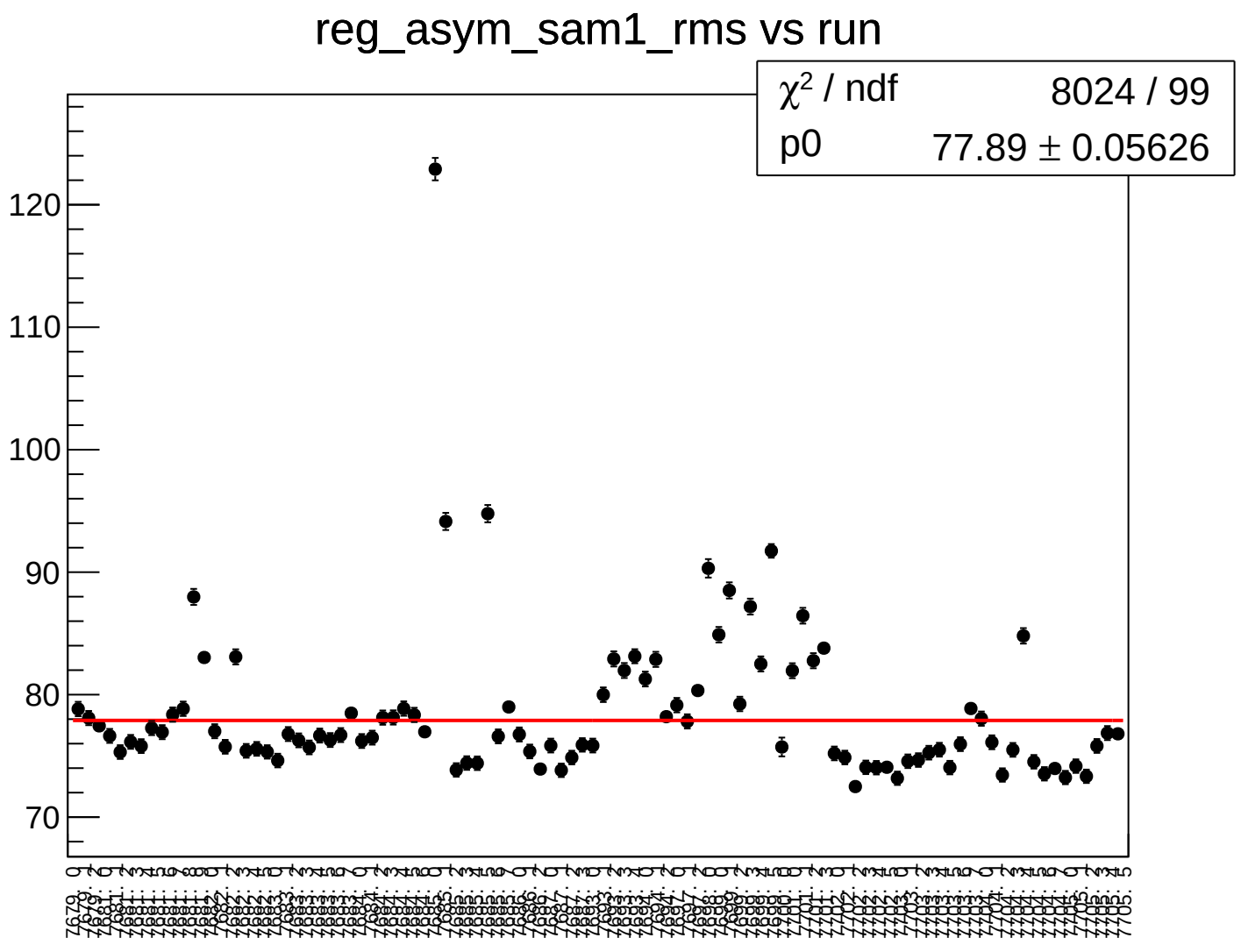

yield_sam8_mean vs run
χ² / ndf 5.567e+06 / 99
p0 8.997 ± 1.472e−05
9.08
9.06
9.04
9.02
9
8.98
8.96
8.94
8.92
8.9
pull
Entries 100
Mean 420.7
Std Dev 0
600
400
200
0
−200
−400
−600

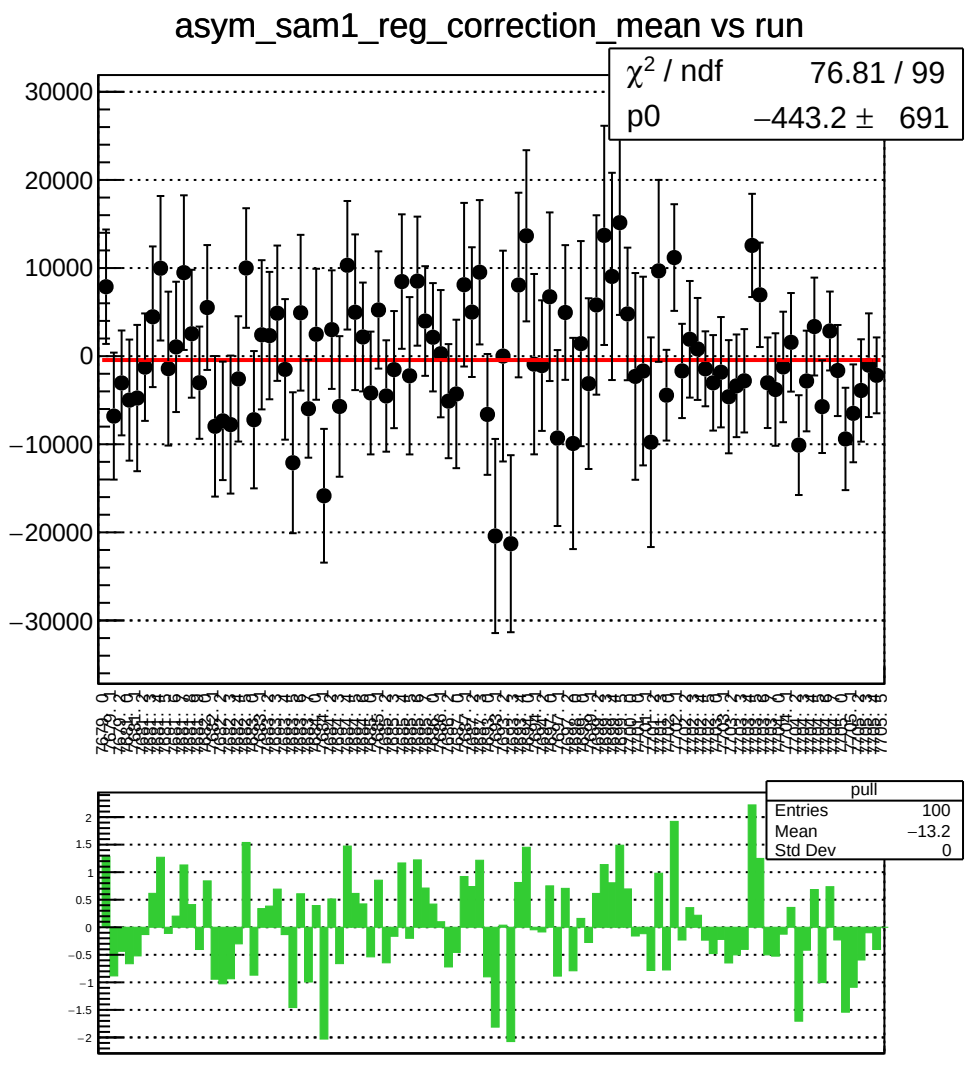

pull1D
Entries 100
Mean 0.3552
Std Dev 3.605
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

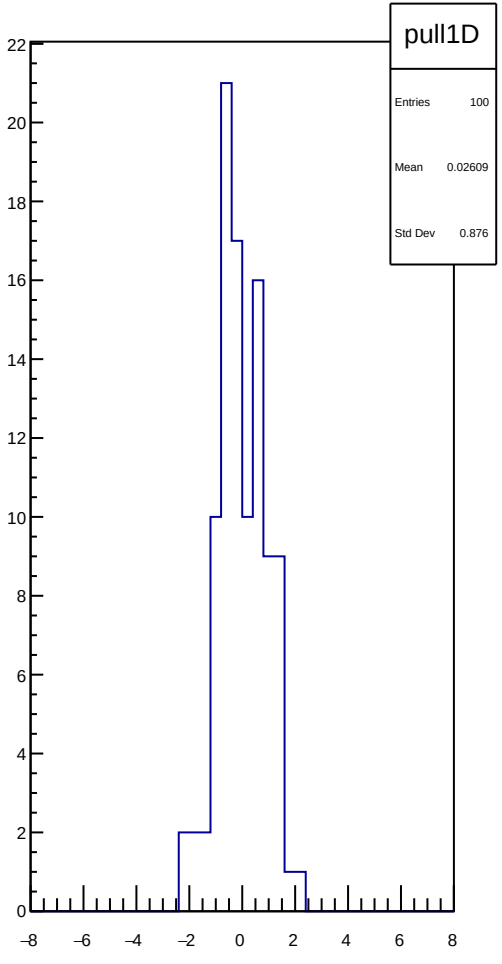

yield_sam8_rms vs run
χ² / ndf 5.867e+04 / 99
p0 0.01422 ± 1.041e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

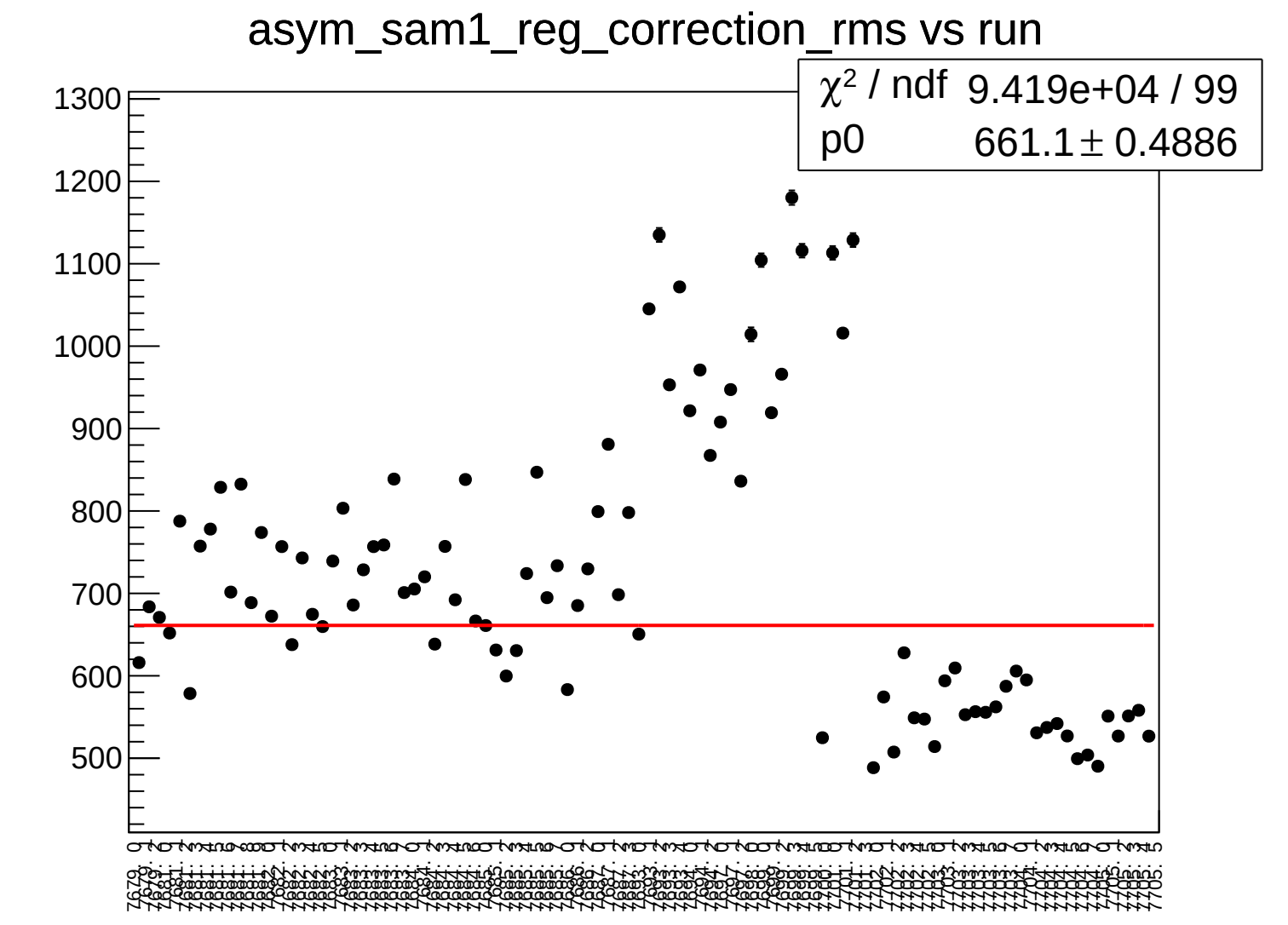

reg_asym_sam1_mean vs run
χ² / ndf 86.85 / 99
p0 −31.97 ± 79.56
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 100
Mean −122.3
Std Dev 0
2
1
0
−1
−2

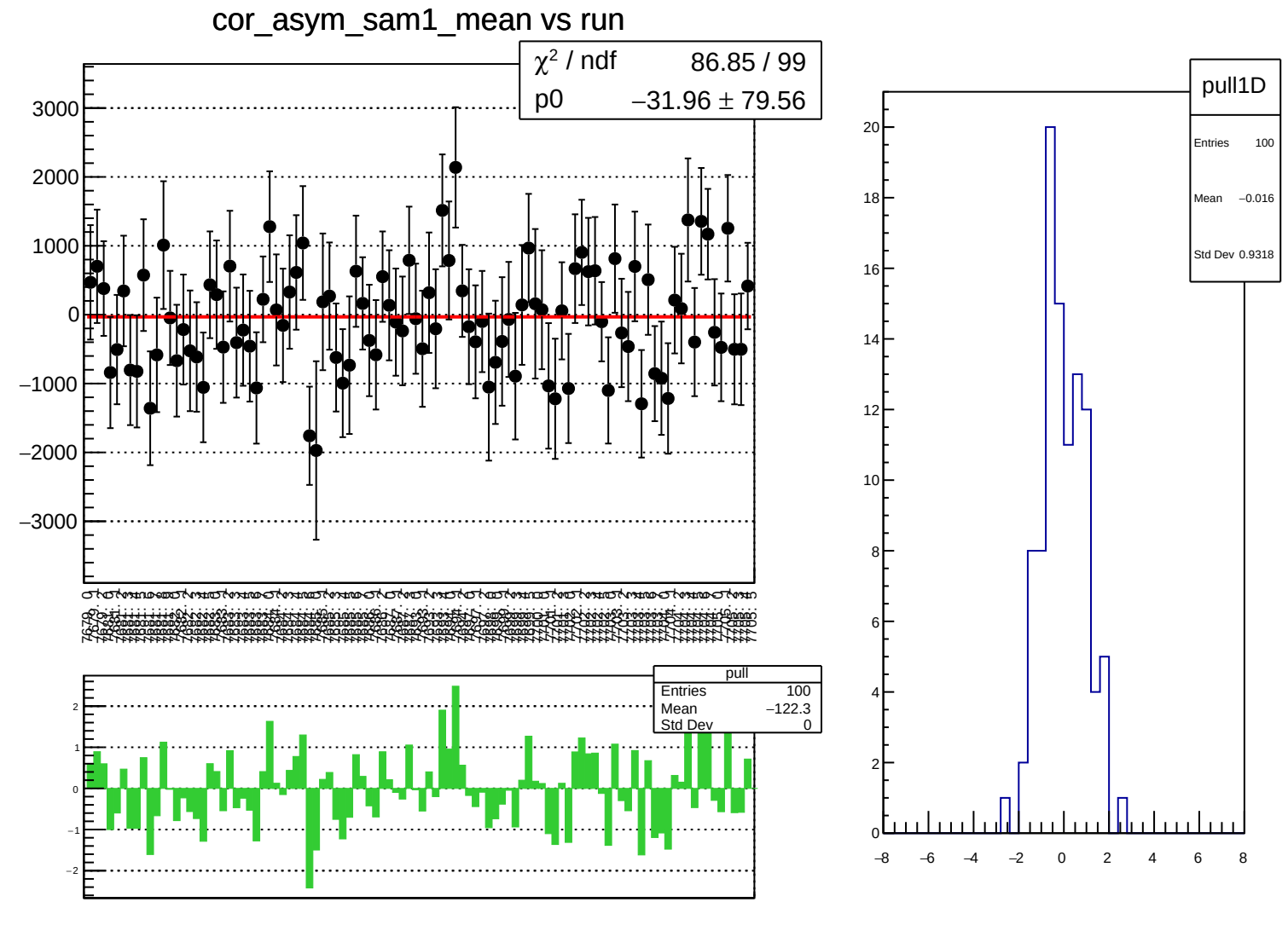

pull1D
Entries 100
Mean −0.016
Std Dev 0.9318
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

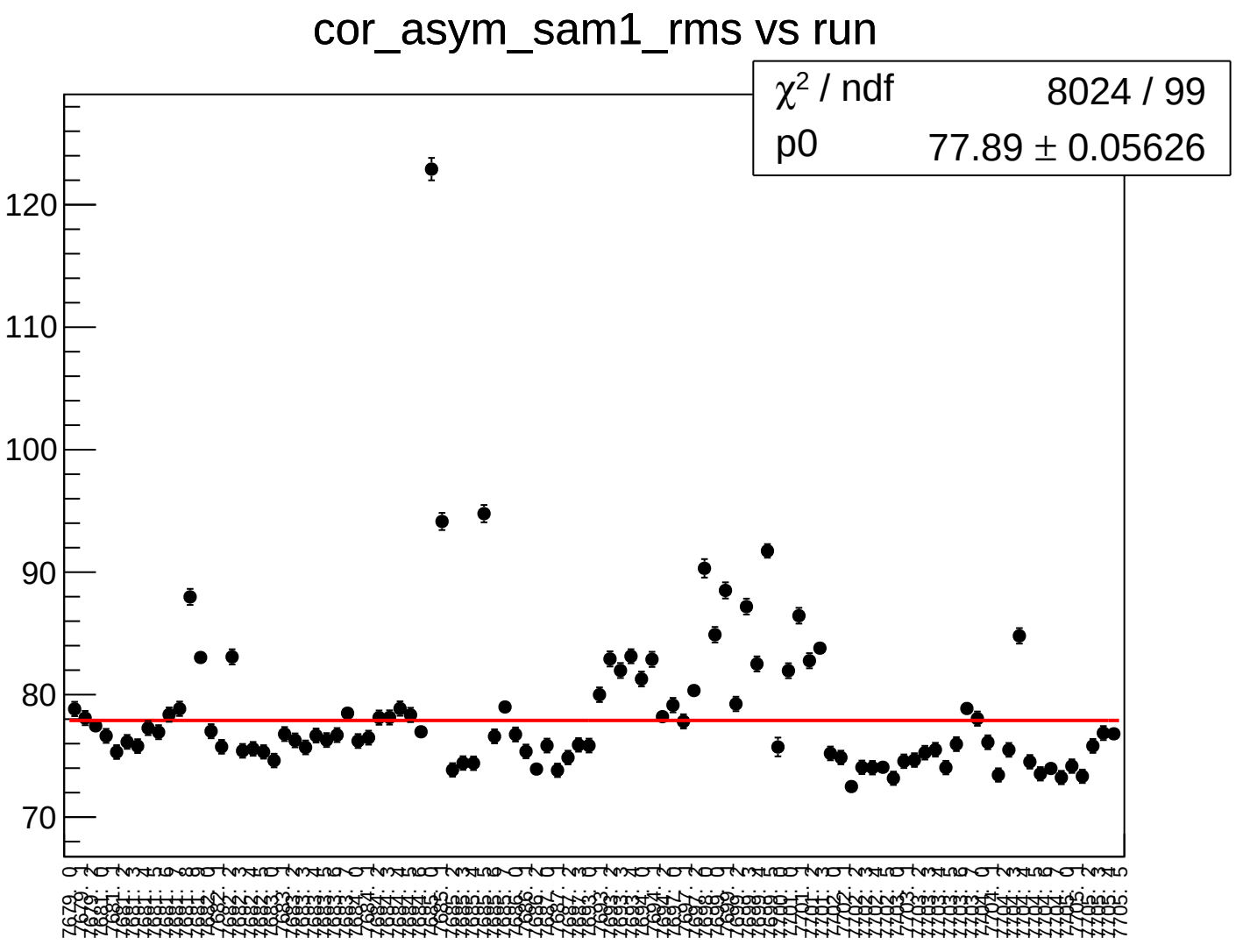

reg_asym_sam1_rms vs run
χ^2 / ndf 8024 / 99
p0 77.89 ± 0.05626
120
110
100
90
80
70

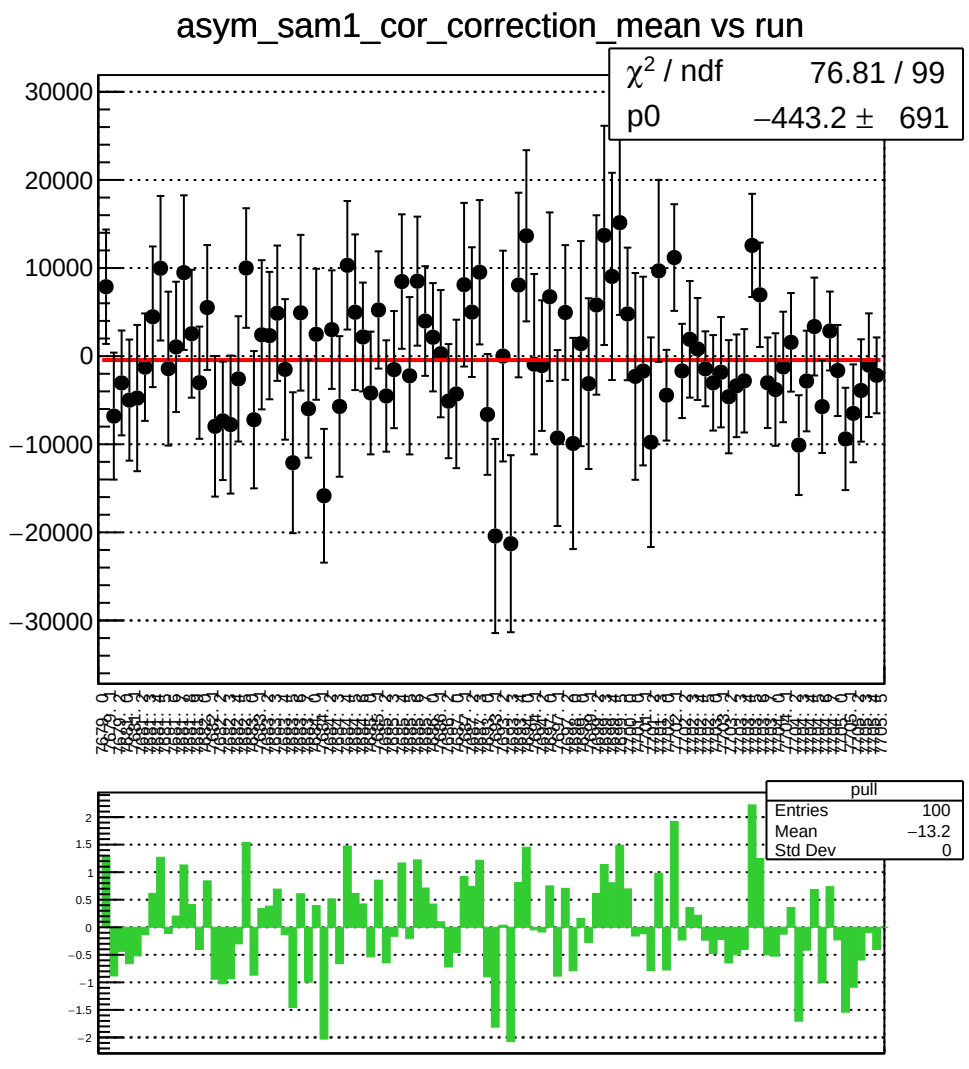

asym_sam1_reg_correction_mean vs run
χ² / ndf 76.81 / 99
p0 −443.2 ± 691
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 100
Mean −13.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

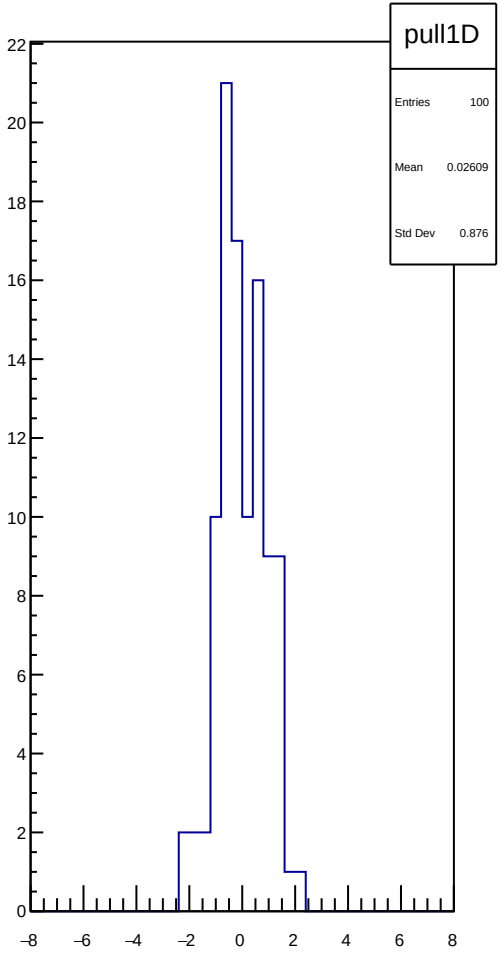

pull1D
Entries 100
Mean 0.02609
Std Dev 0.876
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

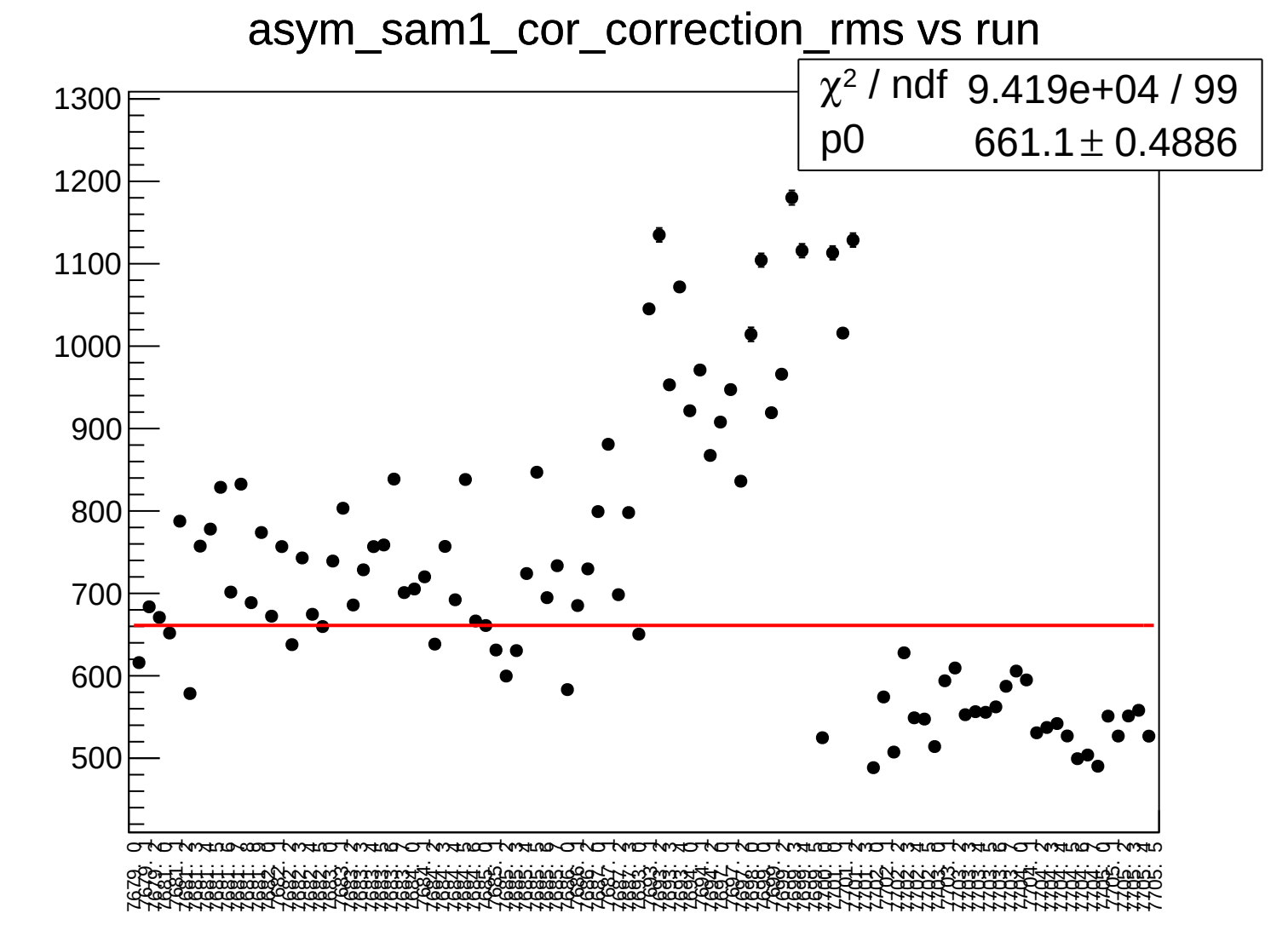

asym_sam1_reg_correction_rms vs run
χ² / ndf 9.419e+04 / 99
p0 661.1 ± 0.4886
1300
1200
1100
1000
900
800
700
600
500

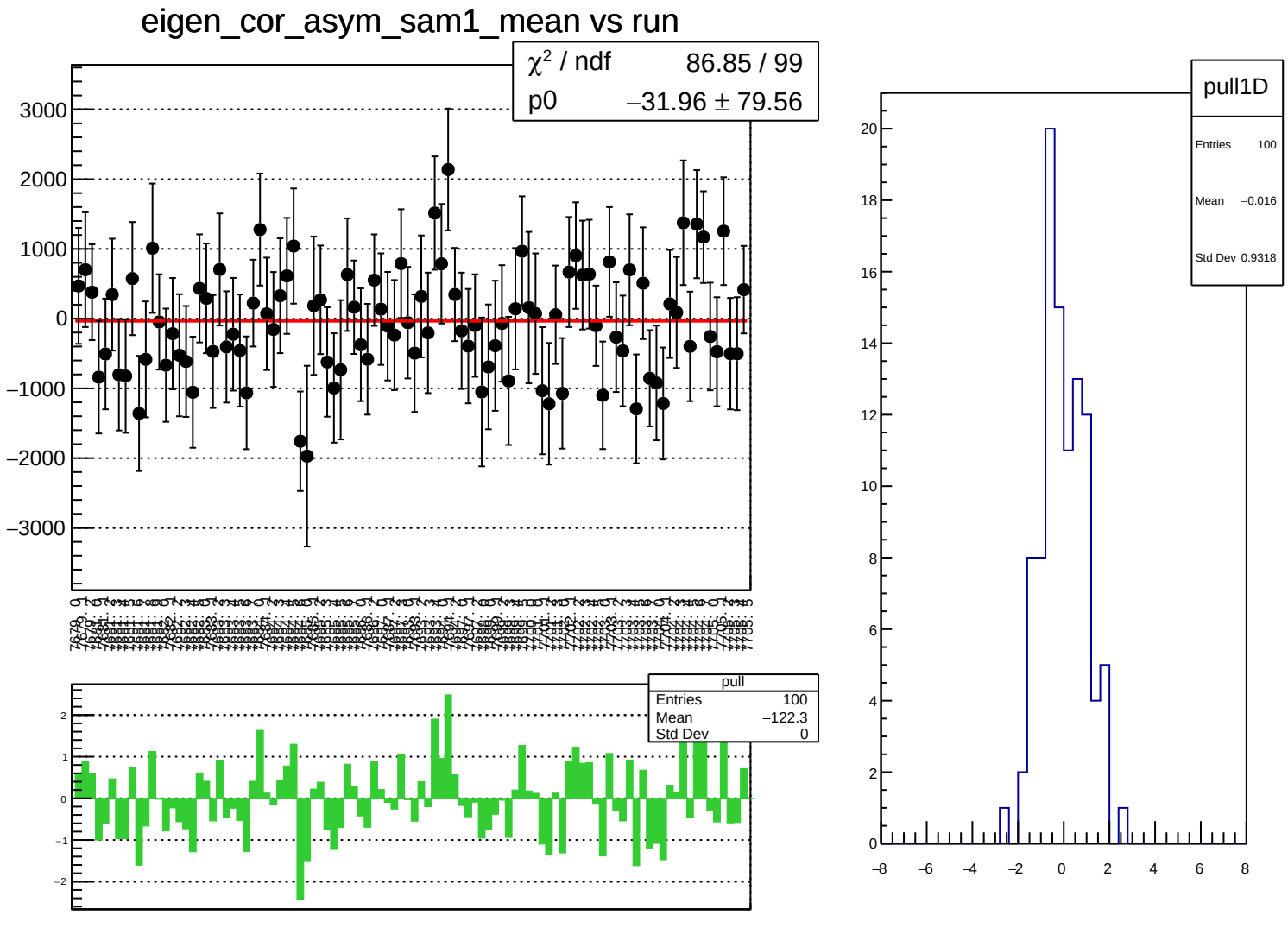

cor_asym_sam1_mean vs run
χ² / ndf 86.85 / 99
p0 −31.96 ± 79.56
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 100
Mean −122.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.016
Std Dev 0.9318
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

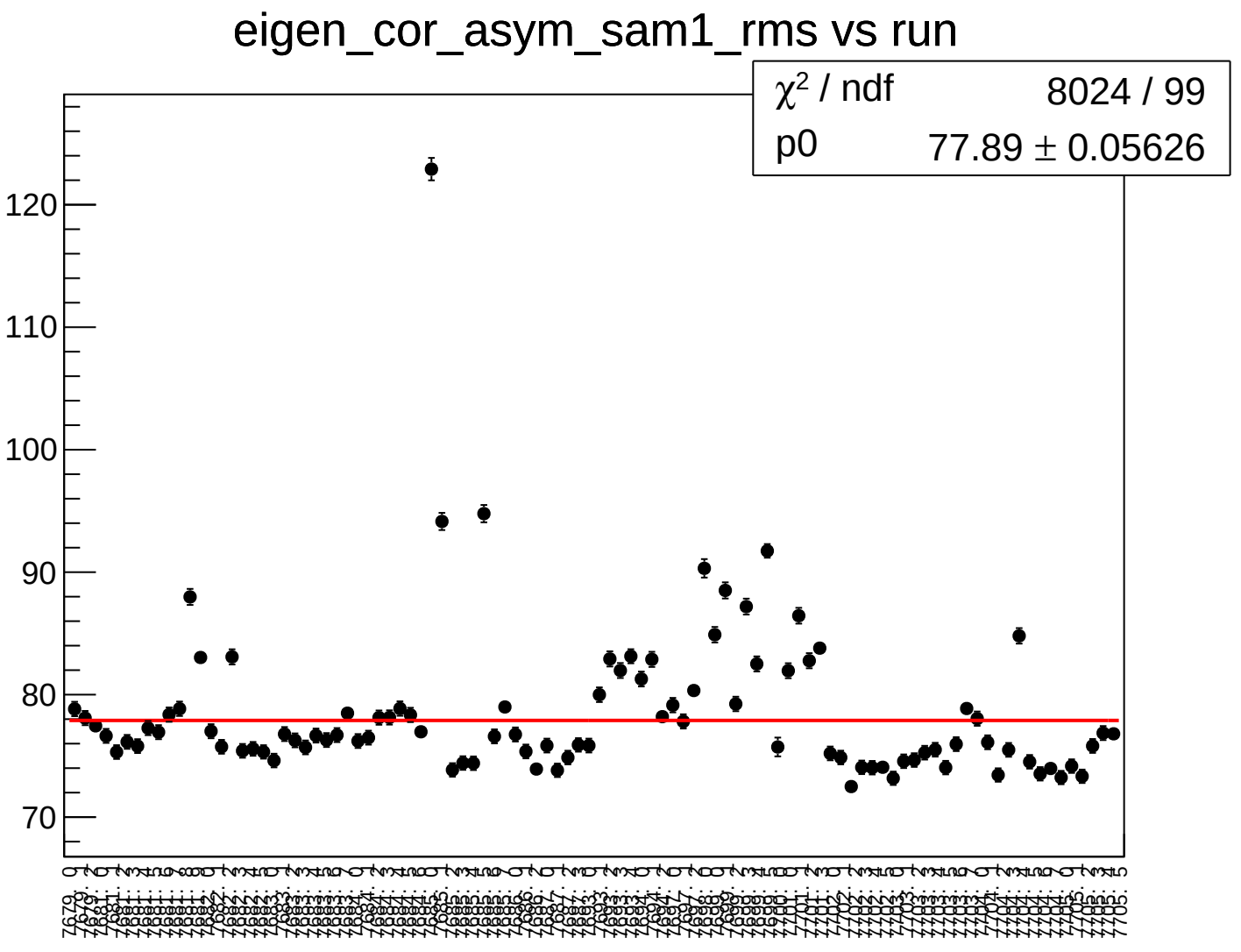

cor_asym_sam1_rms vs run
χ^2 / ndf 8024 / 99
p0 77.89 ± 0.05626
120
110
100
90
80
70

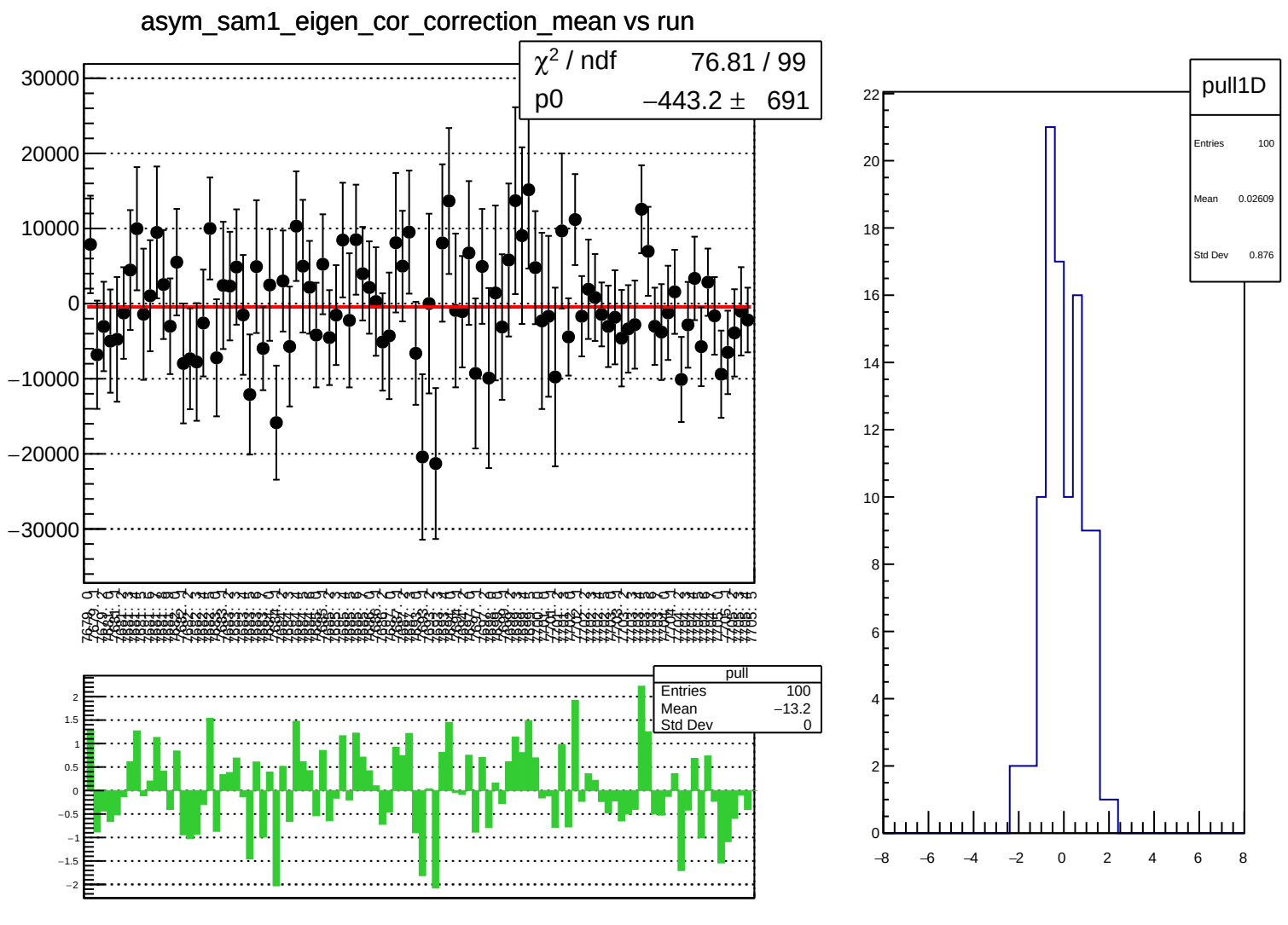

asym_sam1_cor_correction_mean vs run
χ² / ndf 76.81 / 99
p0 −443.2 ± 691
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 100
Mean −13.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

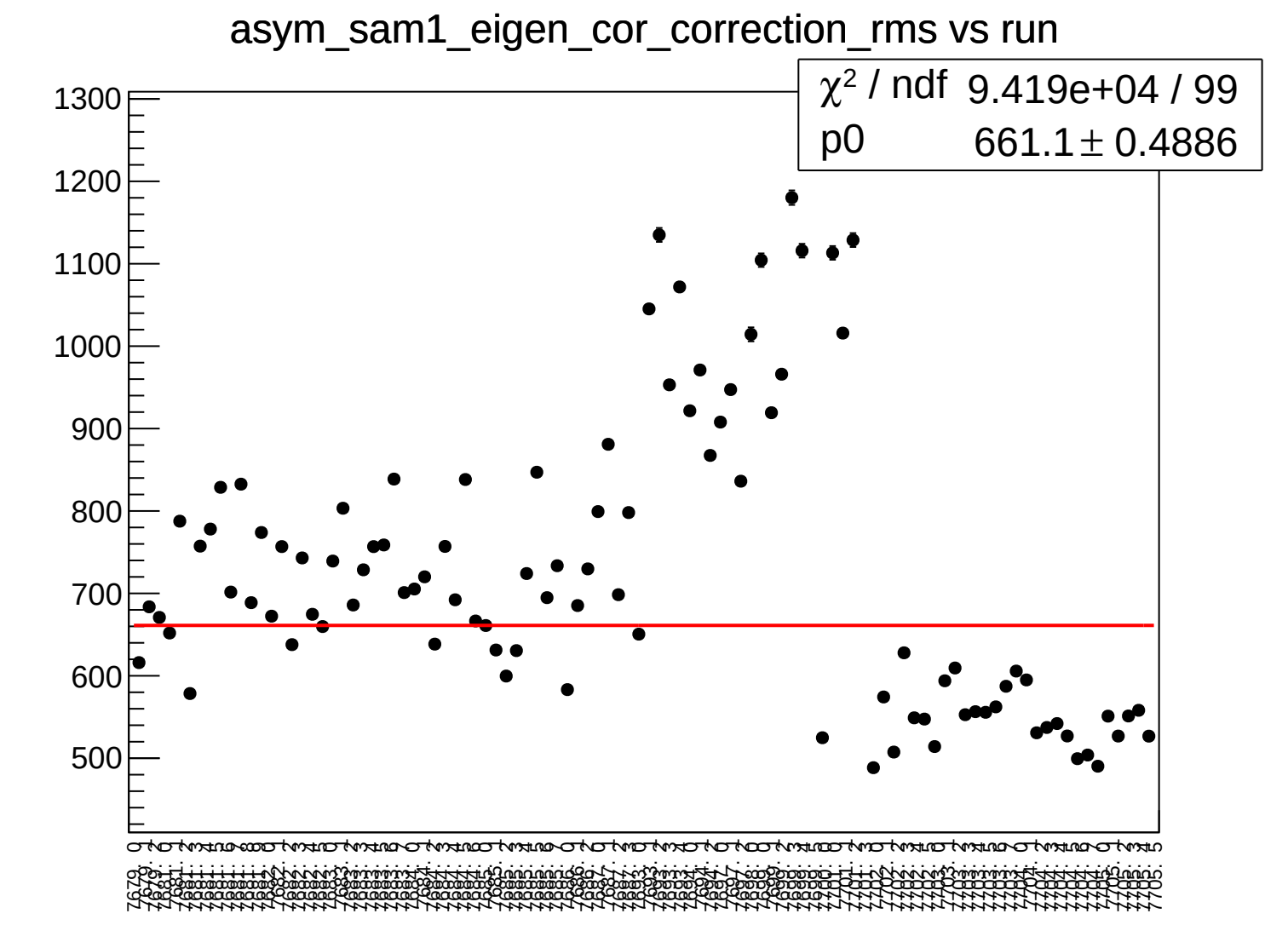

pull1D
Entries 100
Mean 0.02609
Std Dev 0.876
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

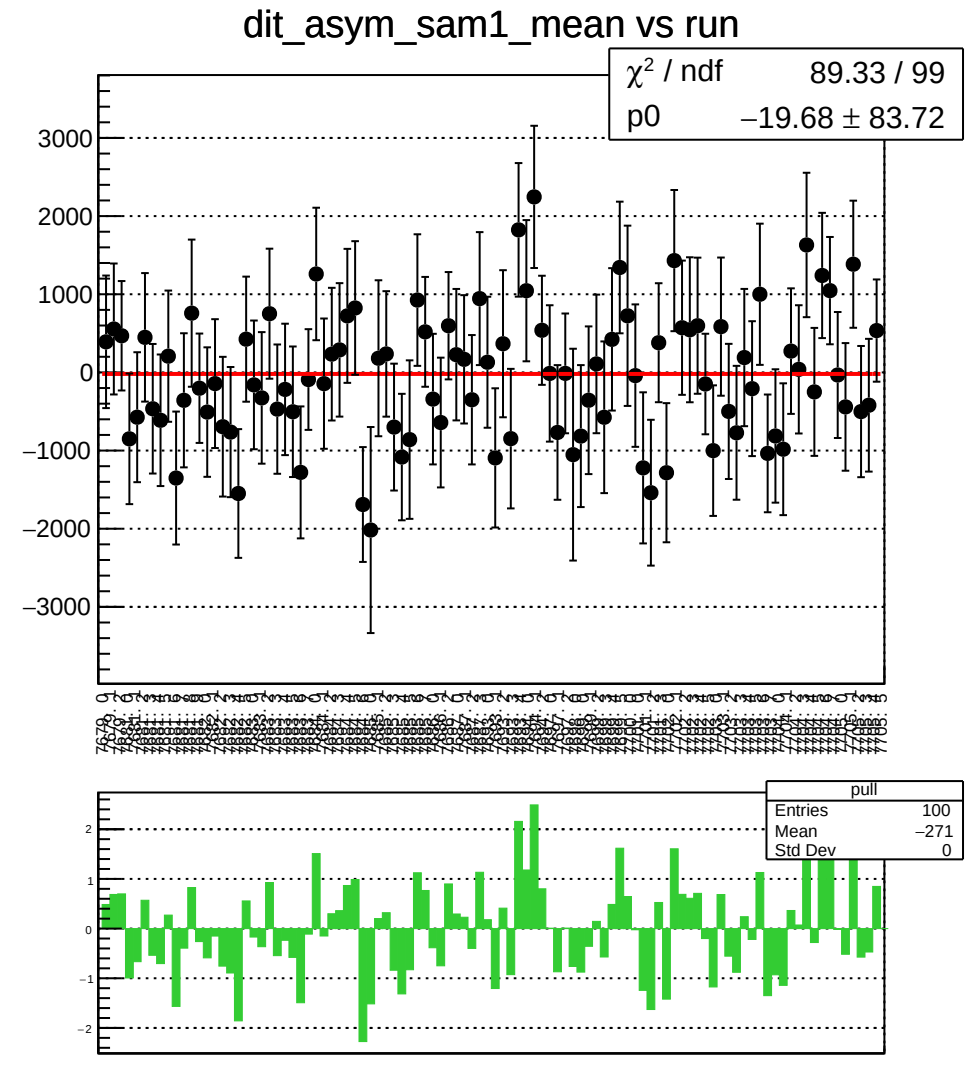

asym_sam1_cor_correction_rms vs run
χ² / ndf 9.419e+04 / 99
p0 661.1 ± 0.4886
1300
1200
1100
1000
900
800
700
600
500

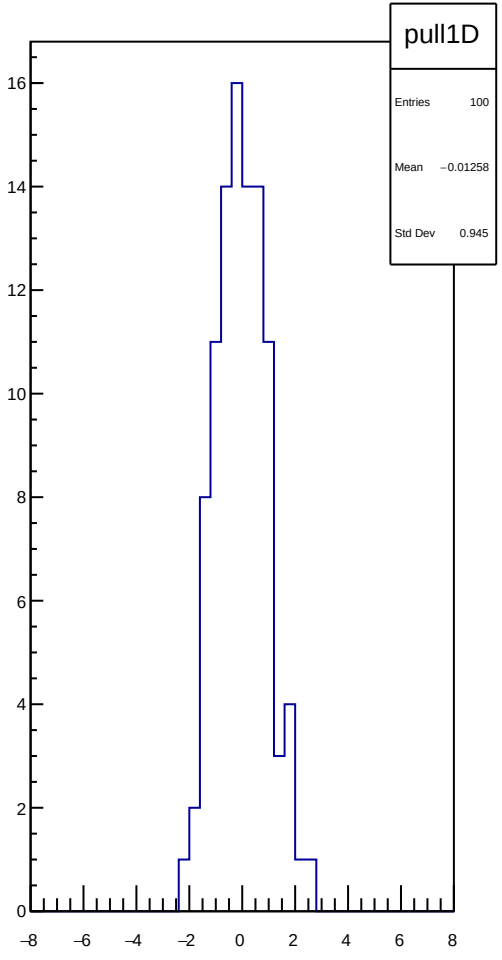

eigen_cor_asym_sam1_mean vs run
χ² / ndf 86.85 / 99
p0 −31.96 ± 79.56
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 100
Mean −122.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.016
Std Dev 0.9318
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

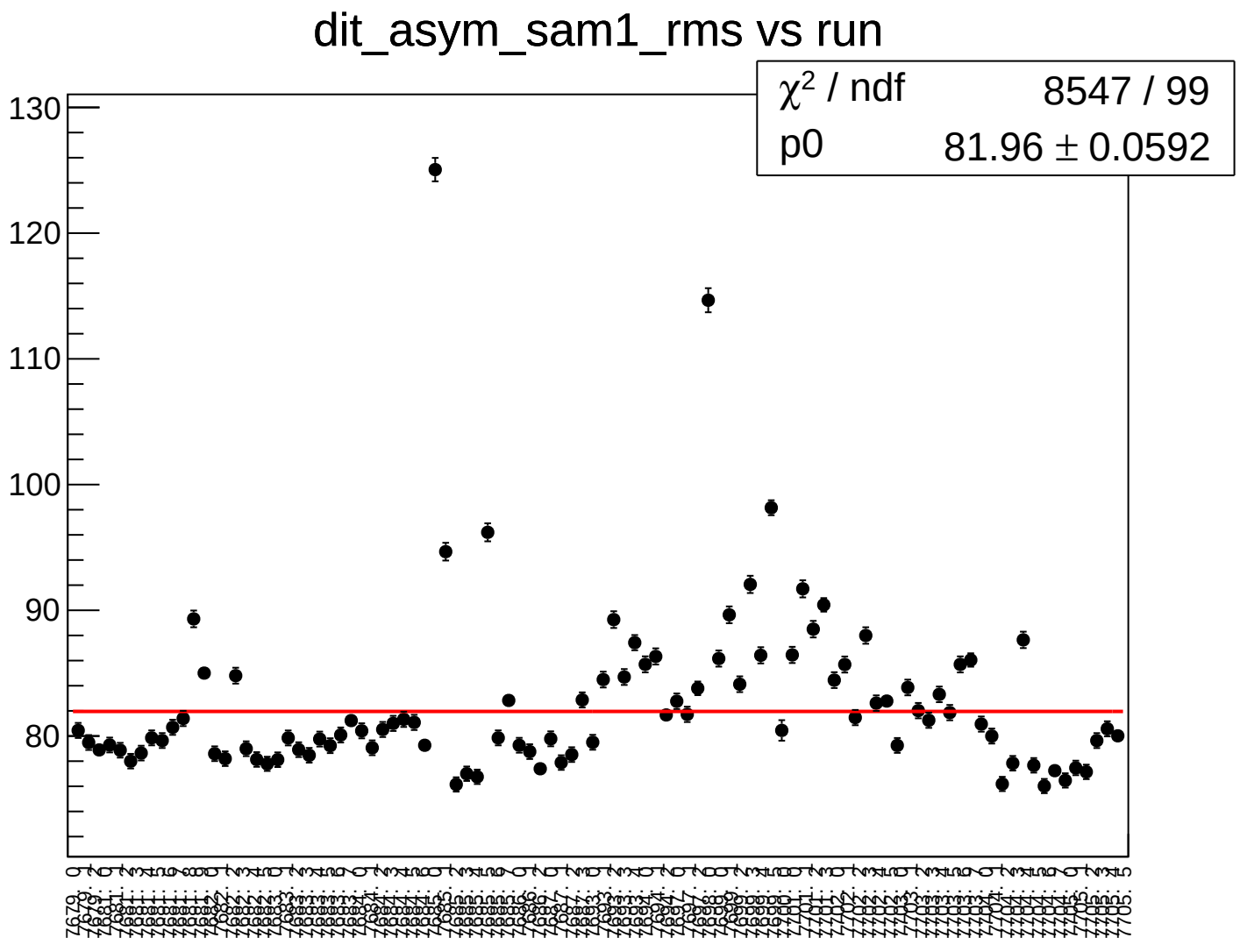

eigen_cor_asym_sam1_rms vs run
χ² / ndf 8024 / 99
p0 77.89 ± 0.05626
120
110
100
90
80
70

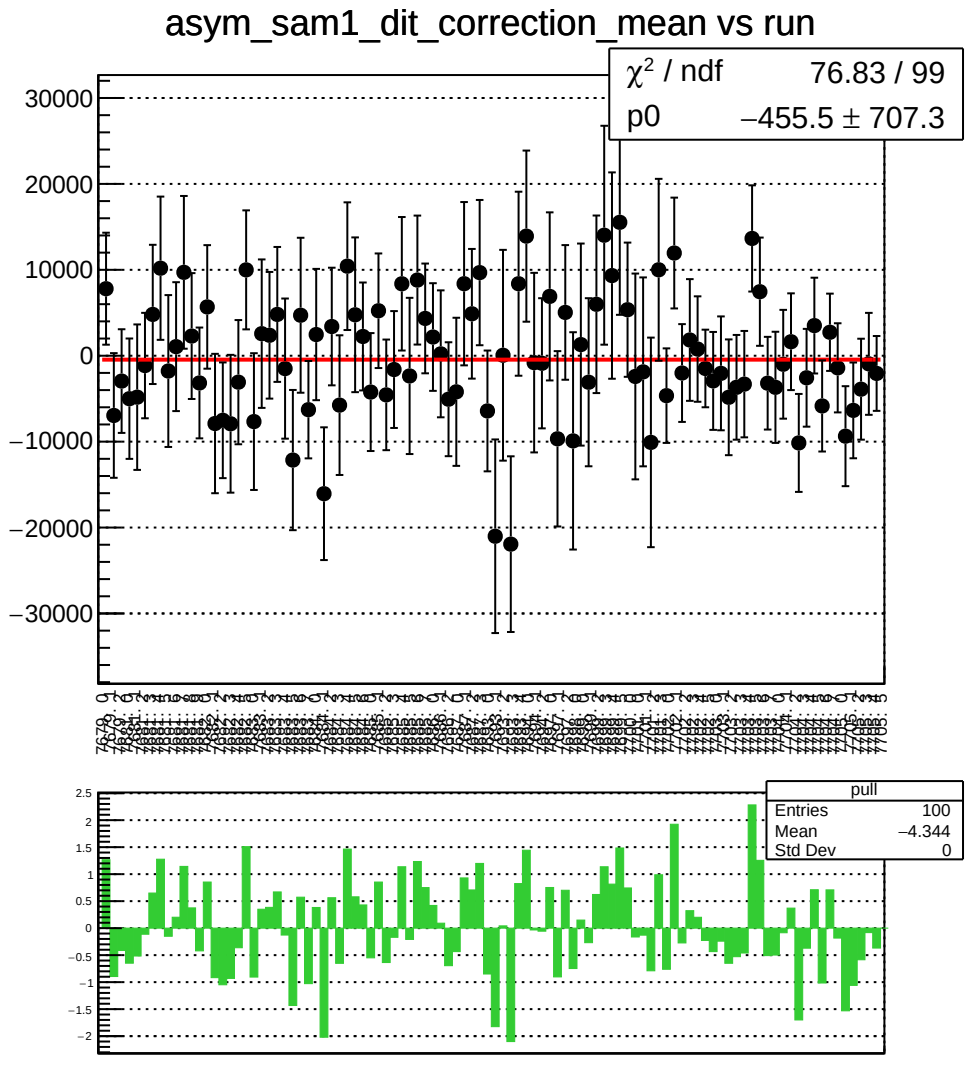

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 76.81 / 99
p0 −443.2 ± 691
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 100
Mean −13.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 100
Mean 0.02609
Std Dev 0.876
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

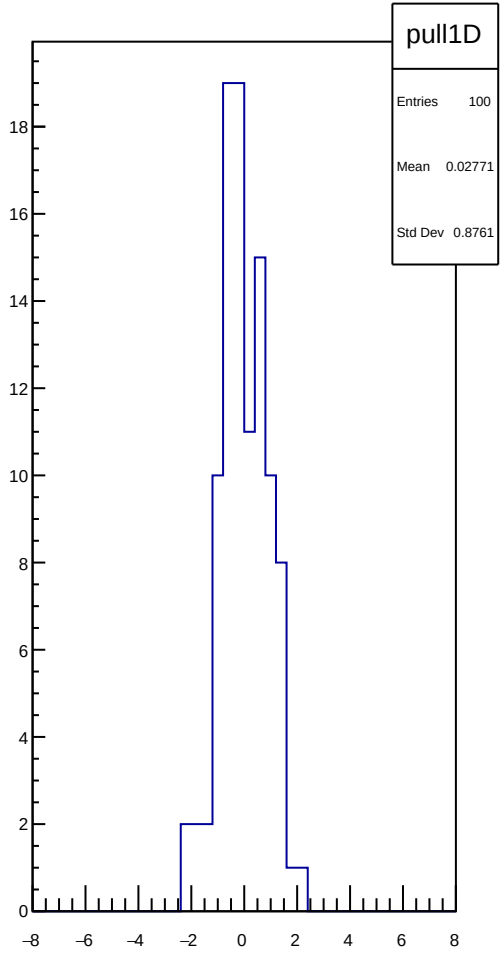

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 9.419e+04 / 99
p0 661.1 ± 0.4886
1300
1200
1100
1000
900
800
700
600
500

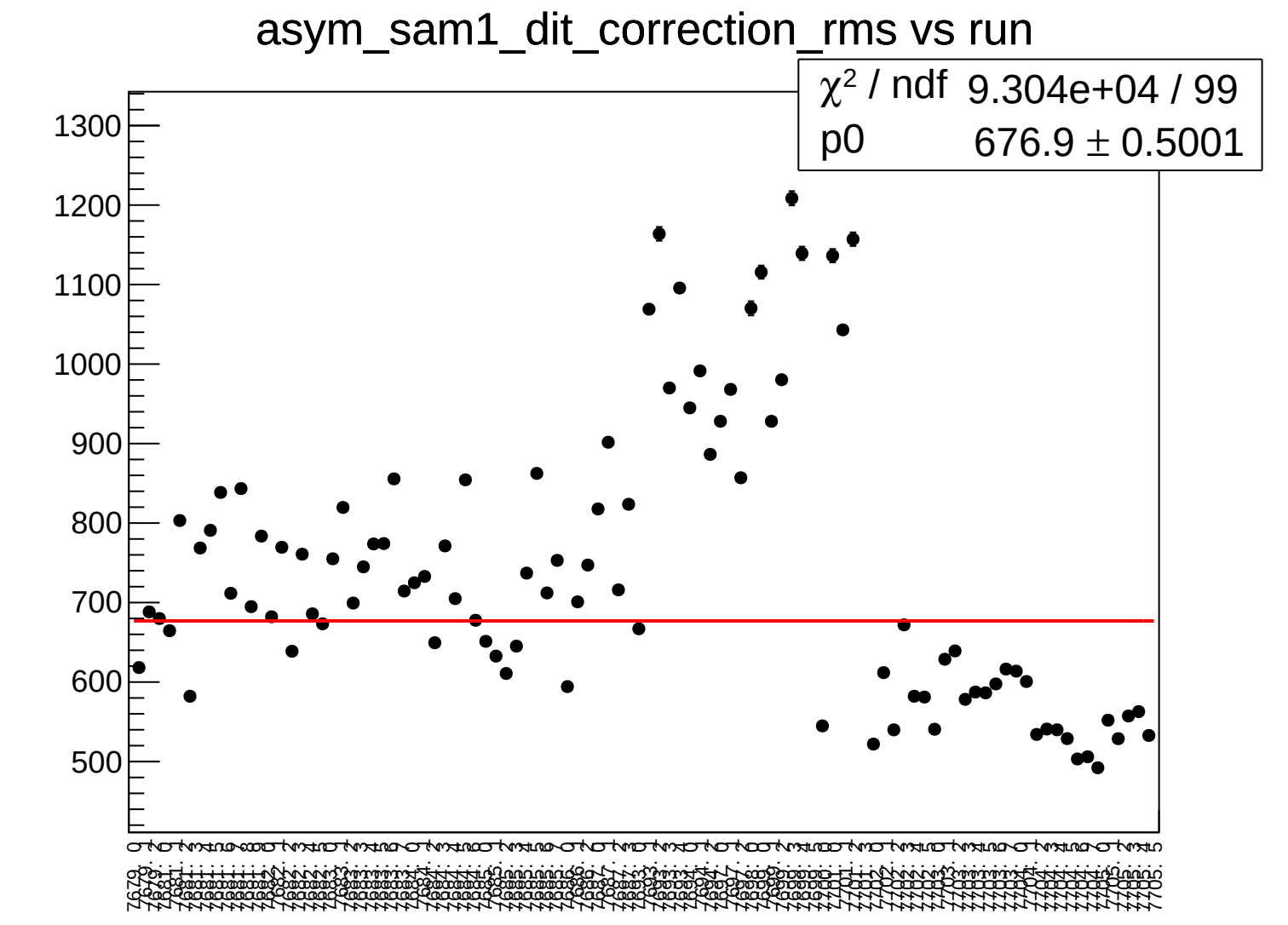

dit_asym_sam1_mean vs run
χ² / ndf 89.33 / 99
p0 −19.68 ± 83.72
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 100
Mean −271
Std Dev 0
2
1
0
−1
−2

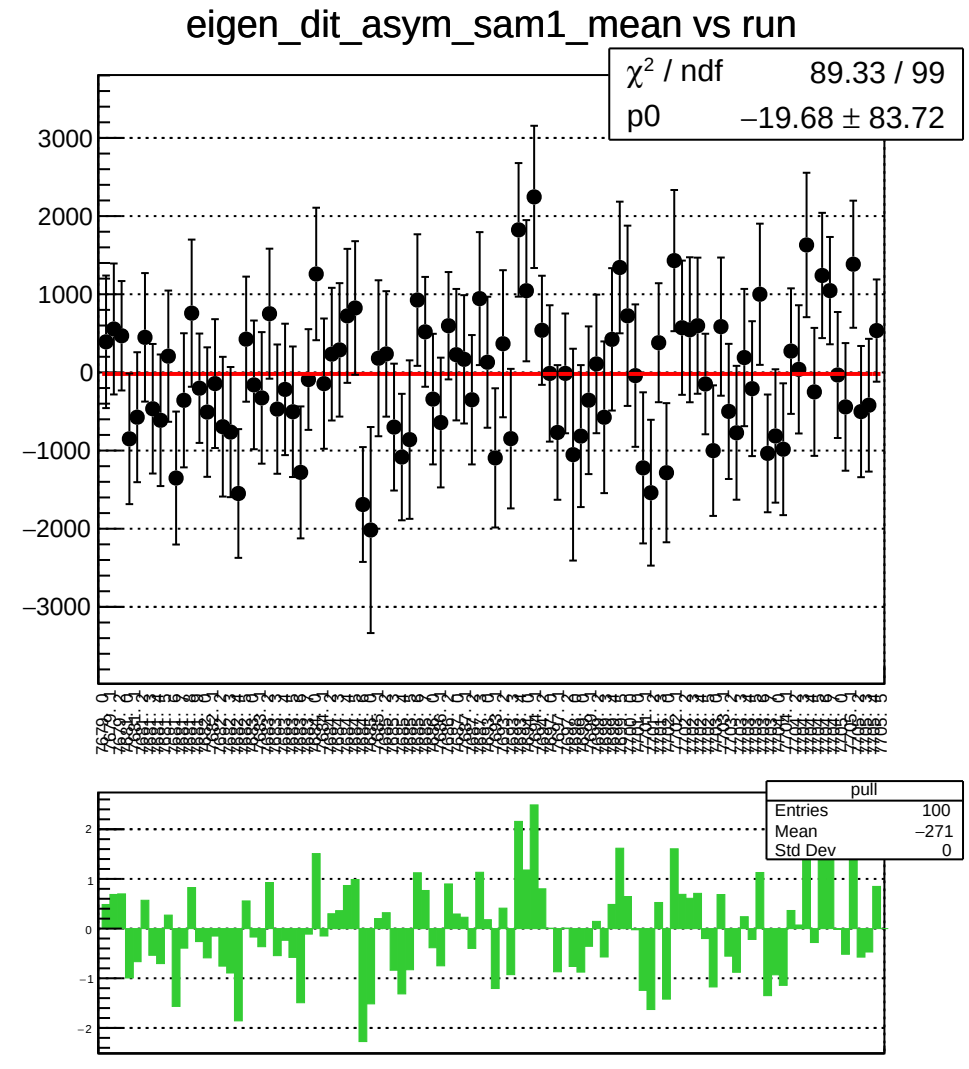

pull1D
Entries 100
Mean −0.01258
Std Dev 0.945
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

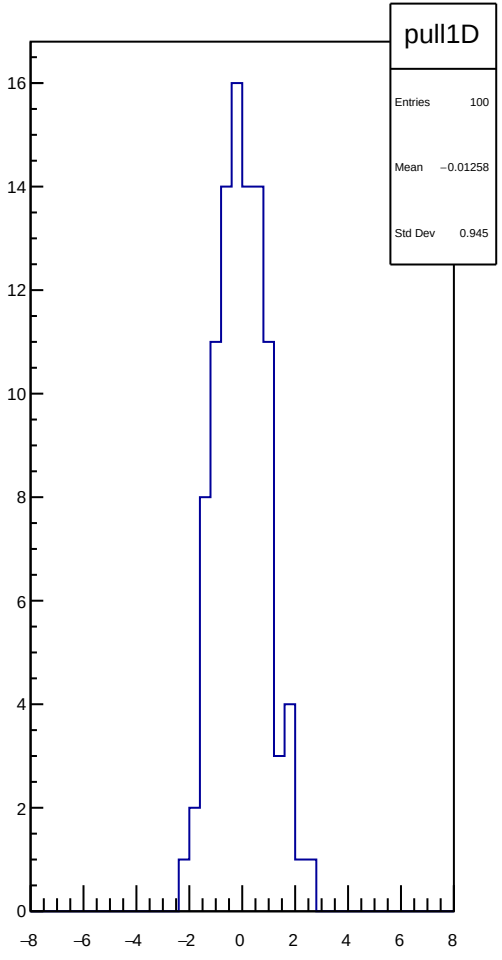

dit_asym_sam1_rms vs run
χ² / ndf 8547 / 99
p0 81.96 ± 0.0592
130
120
110
100
90
80

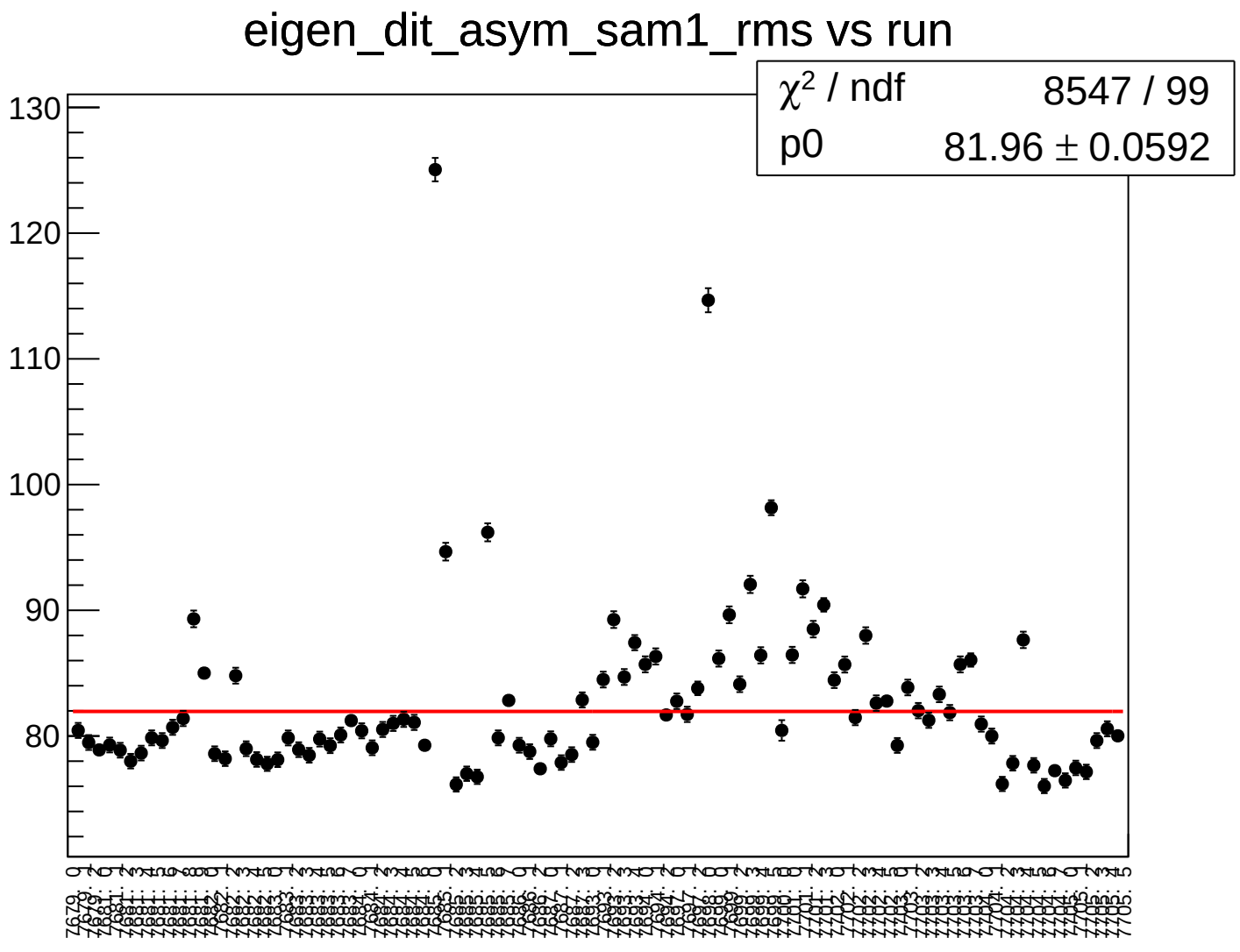

asym_sam1_dit_correction_mean vs run
χ² / ndf 76.83 / 99
p0 −455.5 ± 707.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 100
Mean −4.344
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

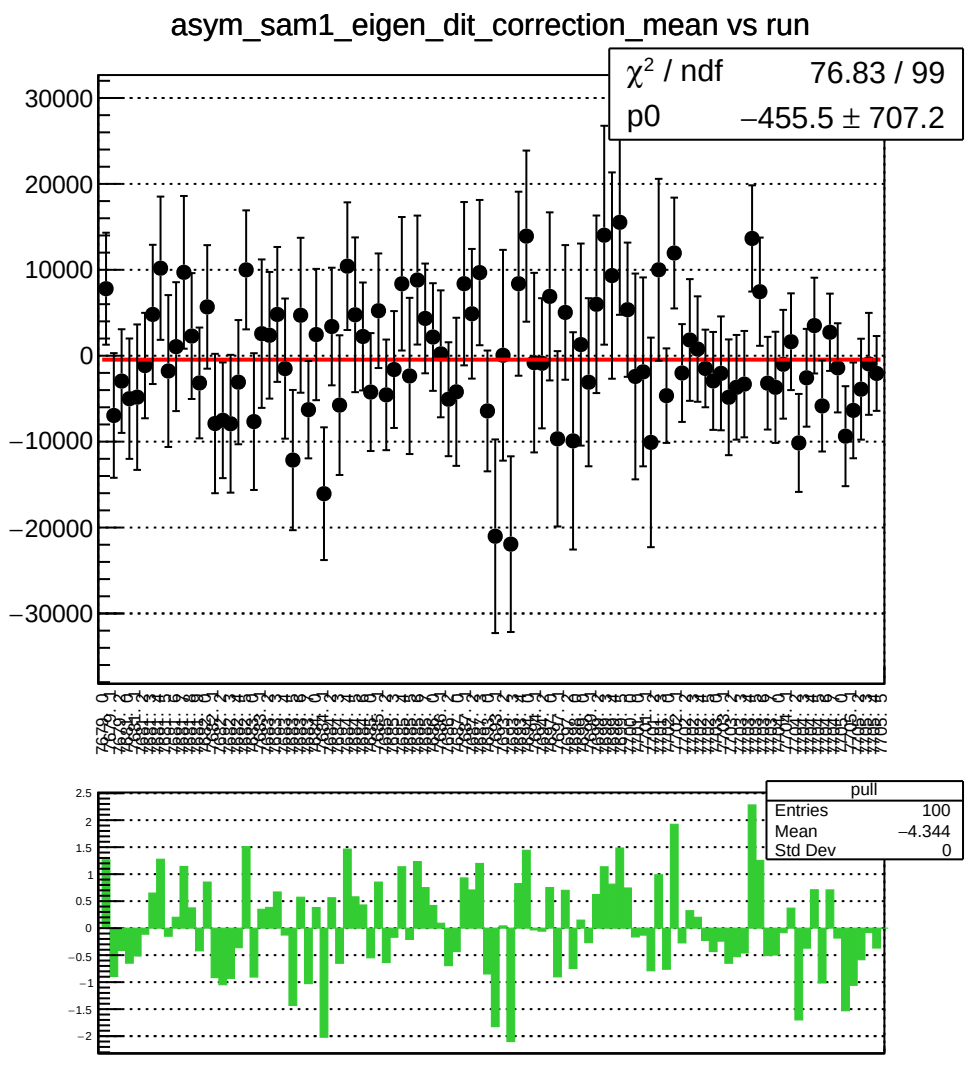

pull1D
Entries 100
Mean 0.02771
Std Dev 0.8761
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

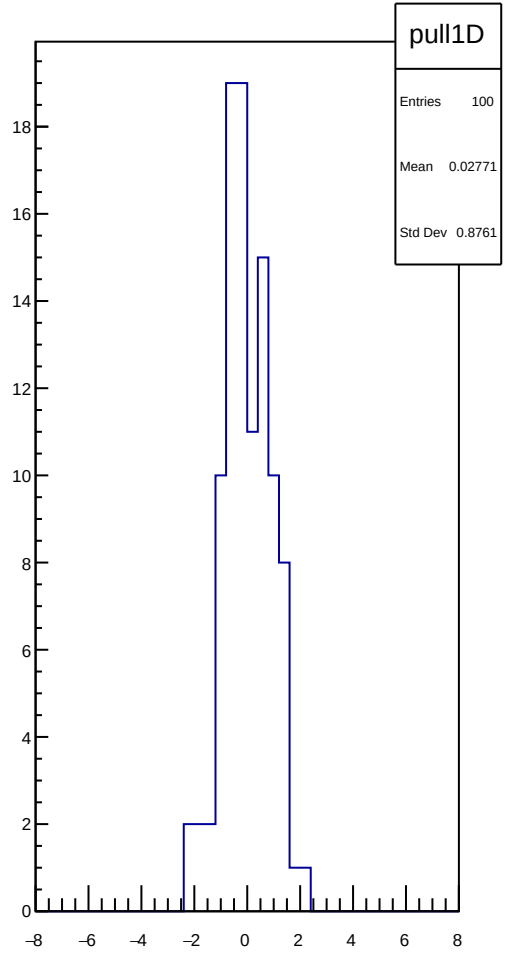

asym_sam1_dit_correction_rms vs run
χ² / ndf 9.304e+04 / 99
p0 676.9 ± 0.5001
1300
1200
1100
1000
900
800
700
600
500


eigen_dit_asym_sam1_mean vs run
χ² / ndf 89.33 / 99
p0 −19.68 ± 83.72
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 100
Mean −271
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 100
Mean −0.01258
Std Dev 0.945
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
χ² / ndf 8547 / 99
p0 81.96 ± 0.0592
130
120
110
100
90
80


asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 76.83 / 99
p0 −455.5 ± 707.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 100
Mean −4.344
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 100
Mean 0.02771
Std Dev 0.8761
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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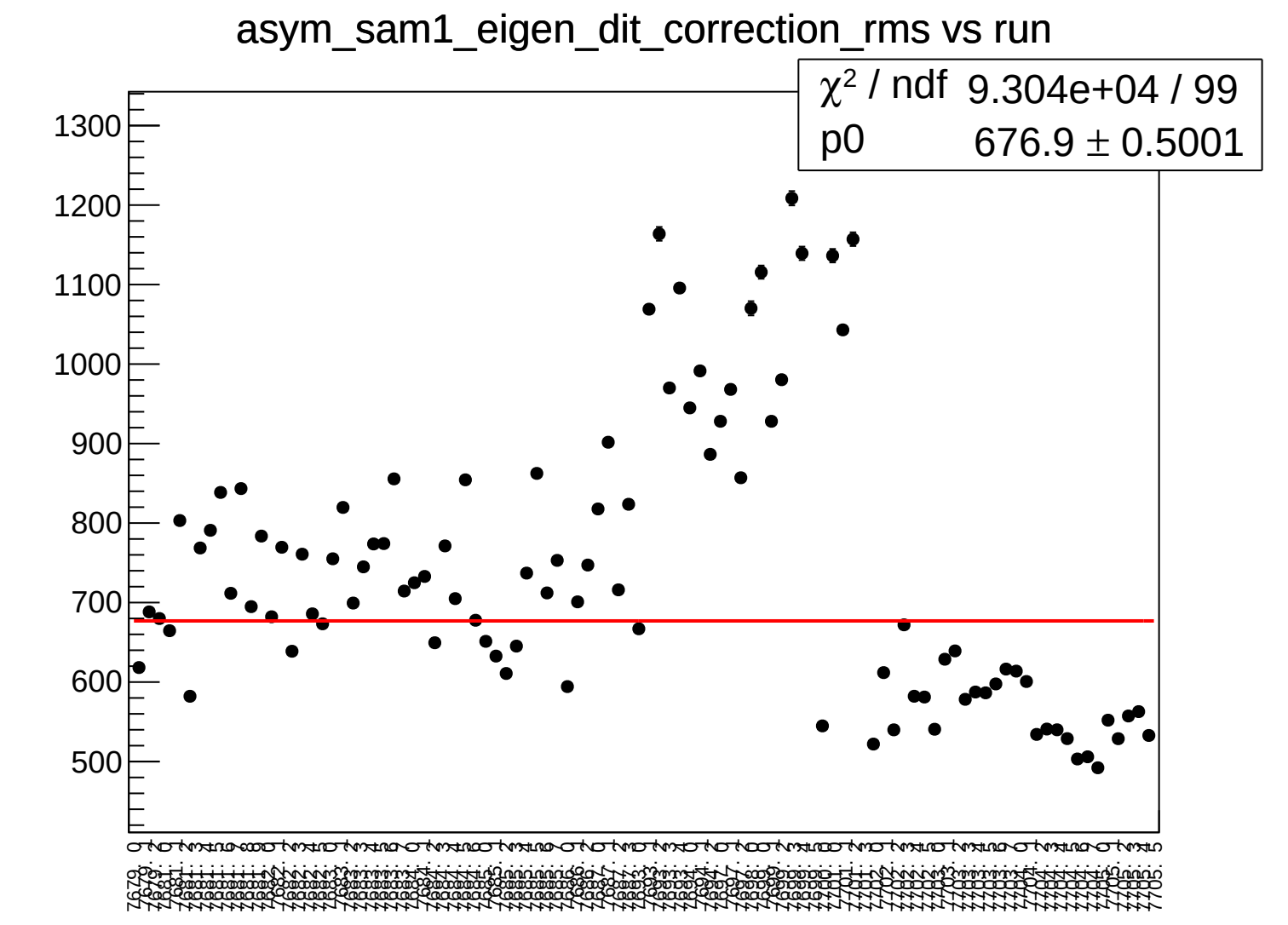
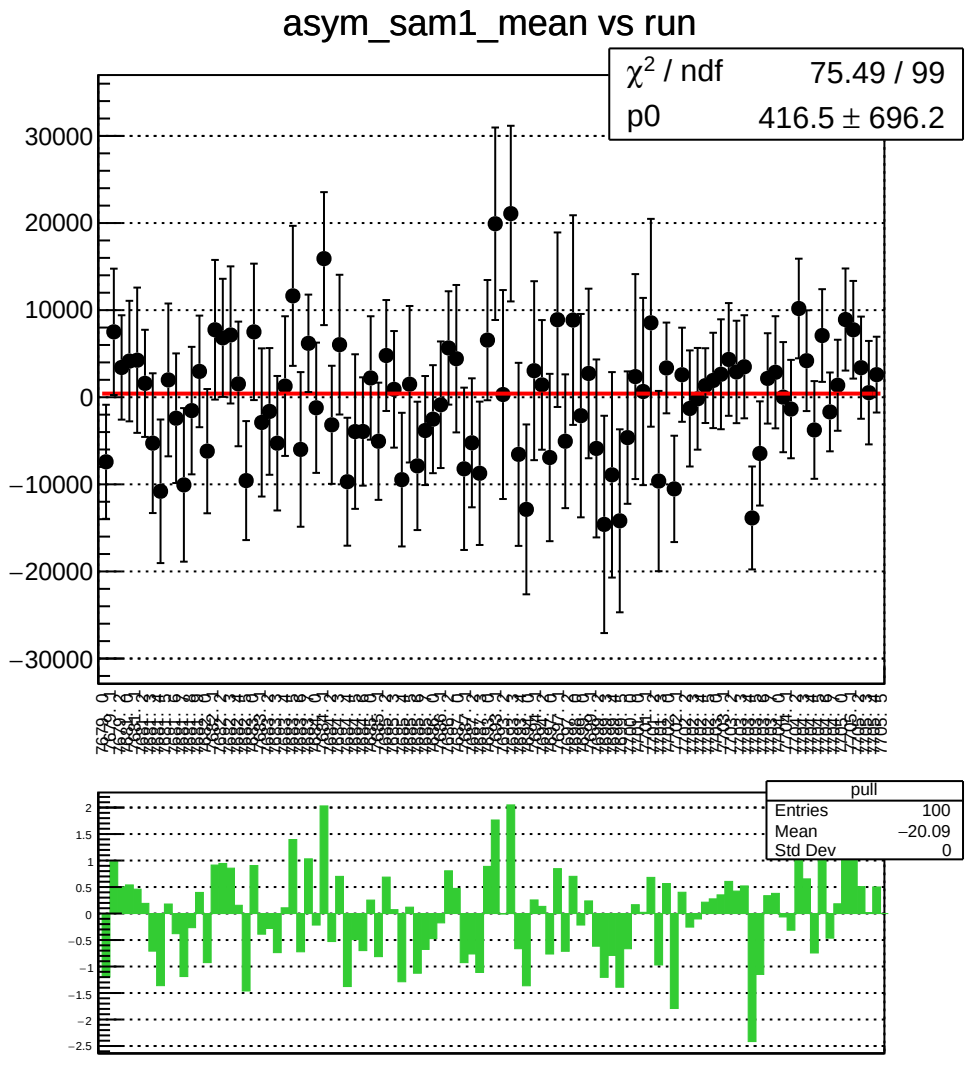
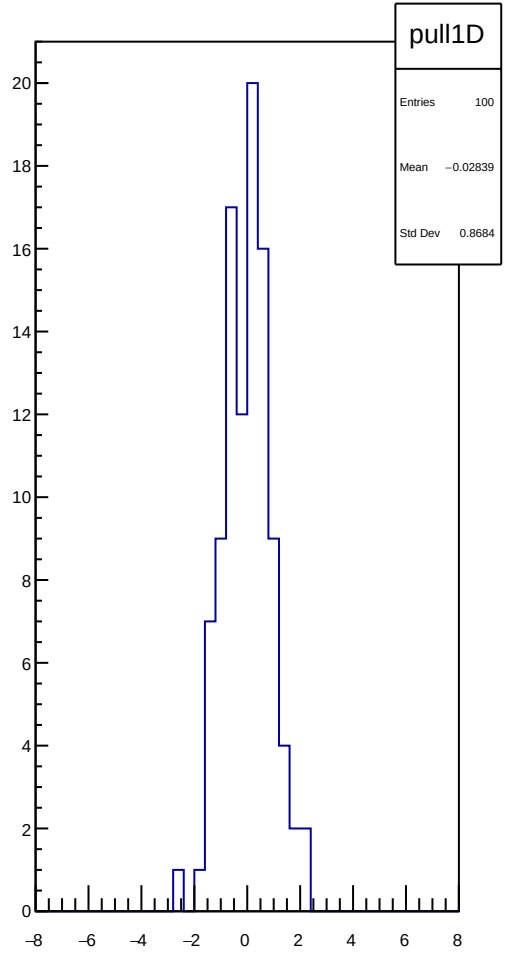
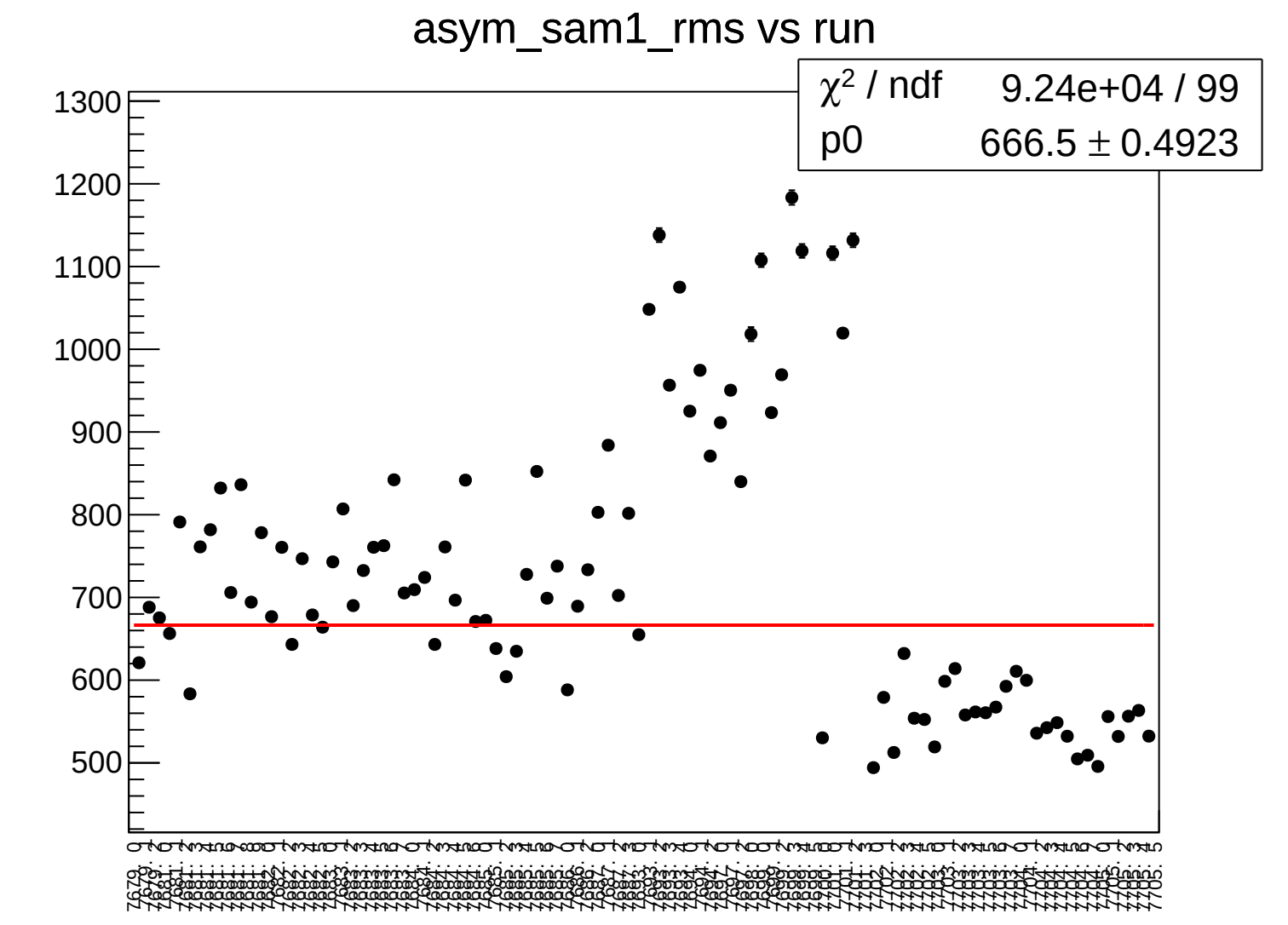
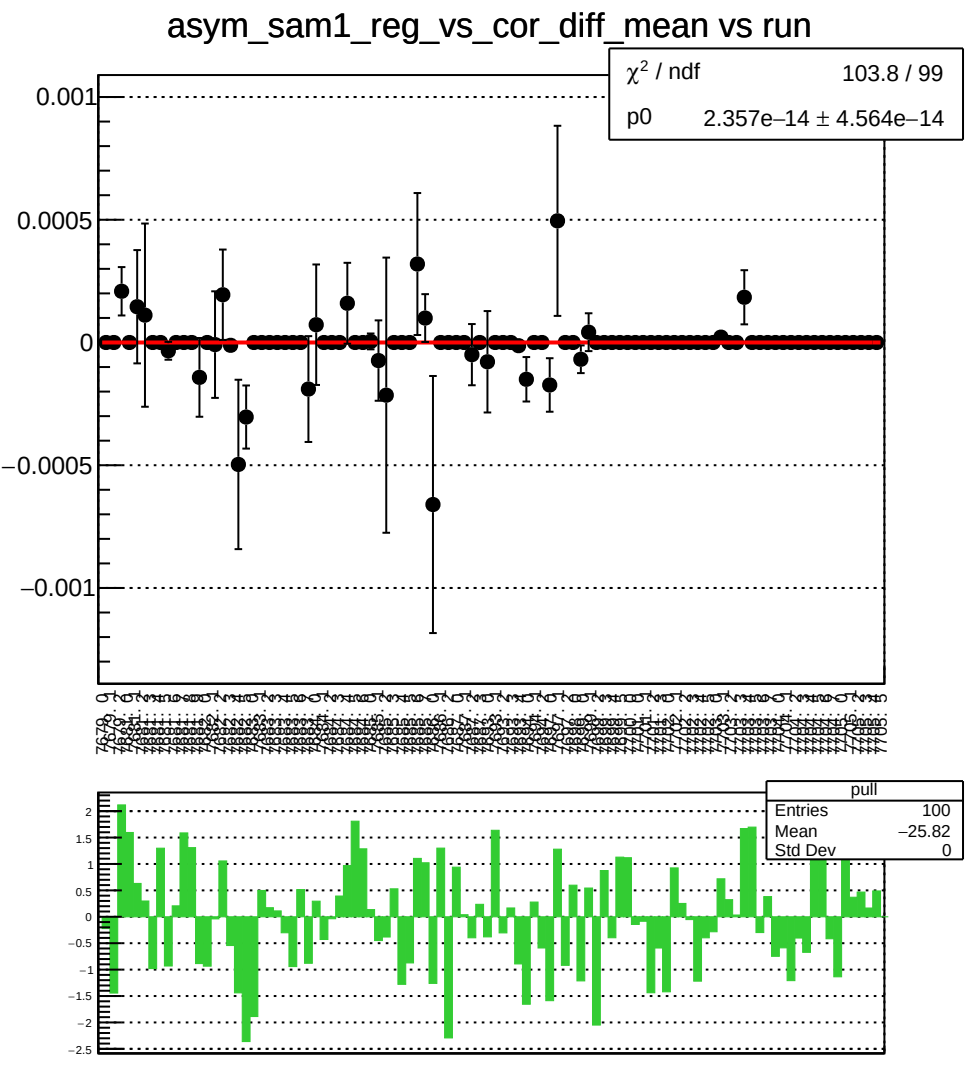
0
2
4
6
8

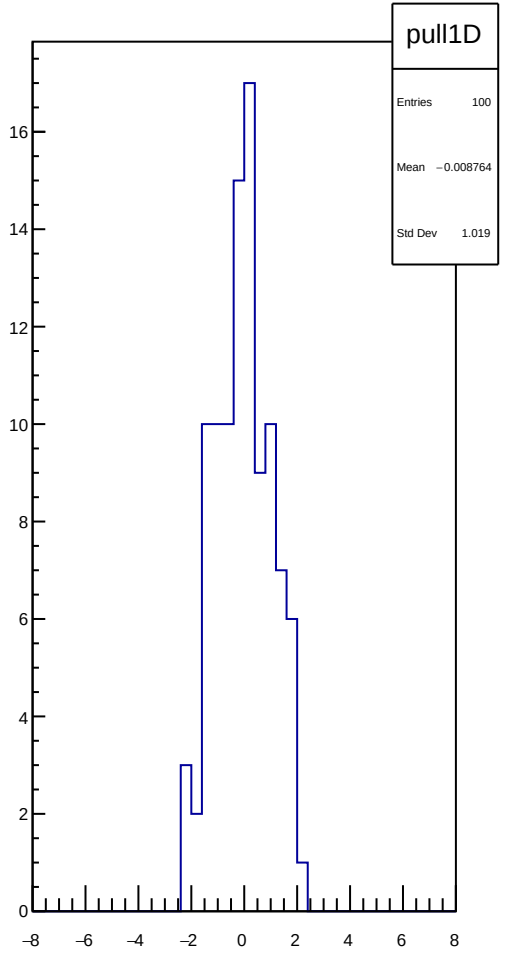

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 9.304e+04 / 99
p0 676.9 ± 0.5001
1300
1200
1100
1000
900
800
700
600
500

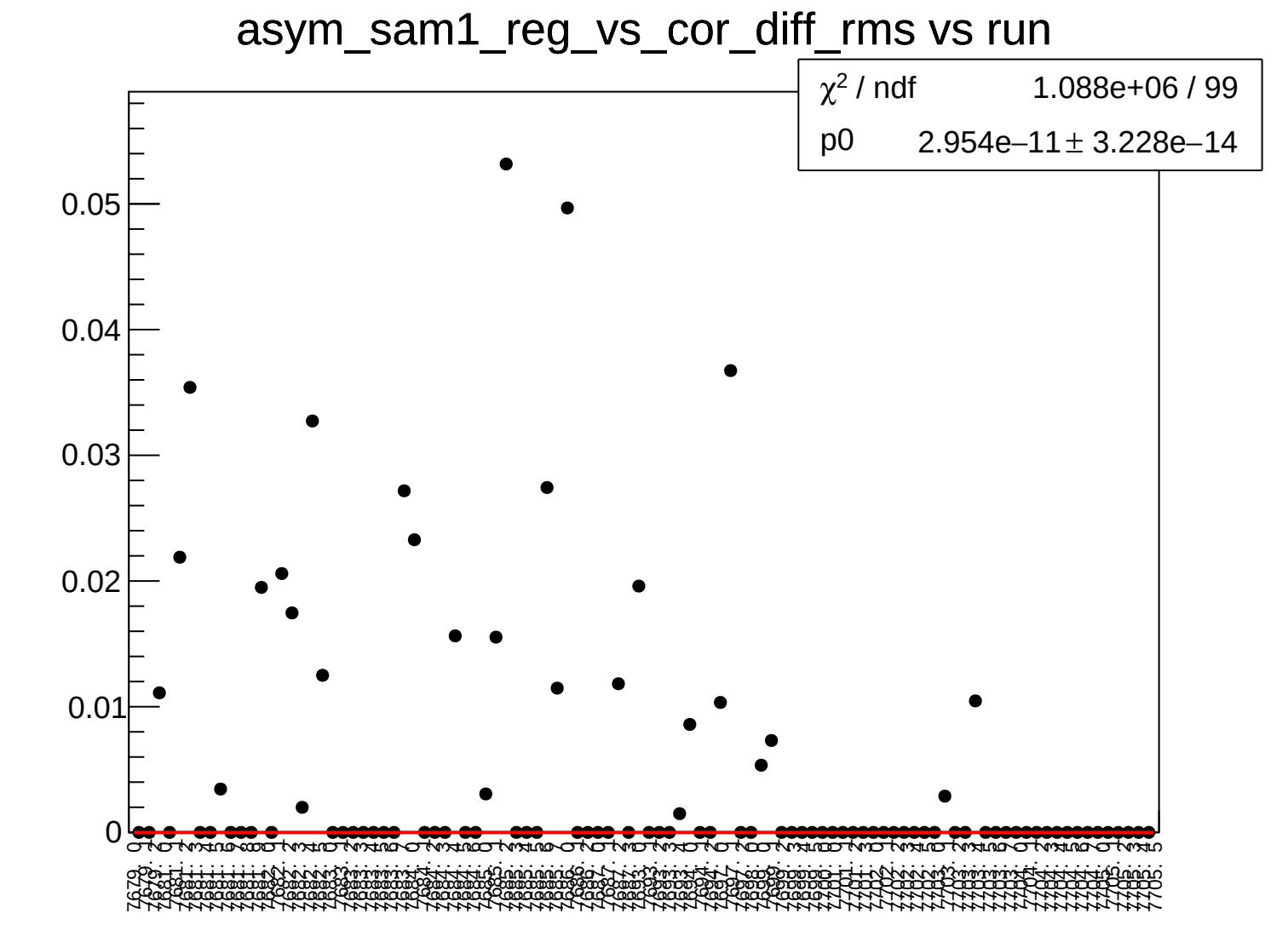

asym_sam1_mean vs run
χ^2 / ndf 75.49 / 99
p0 416.5 ± 696.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 100
Mean −20.09
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

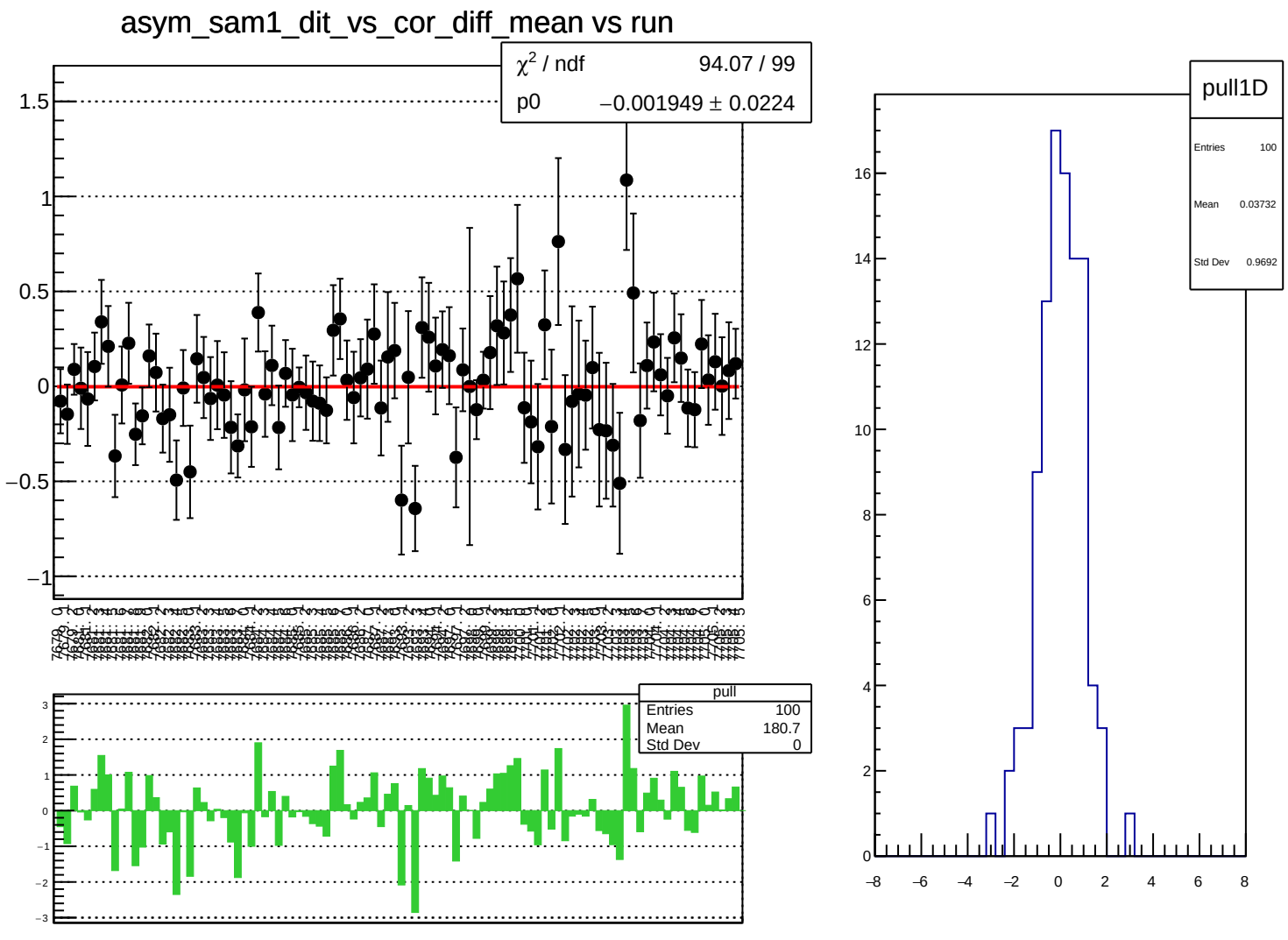

pull1D
Entries 100
Mean −0.02839
Std Dev 0.8684
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

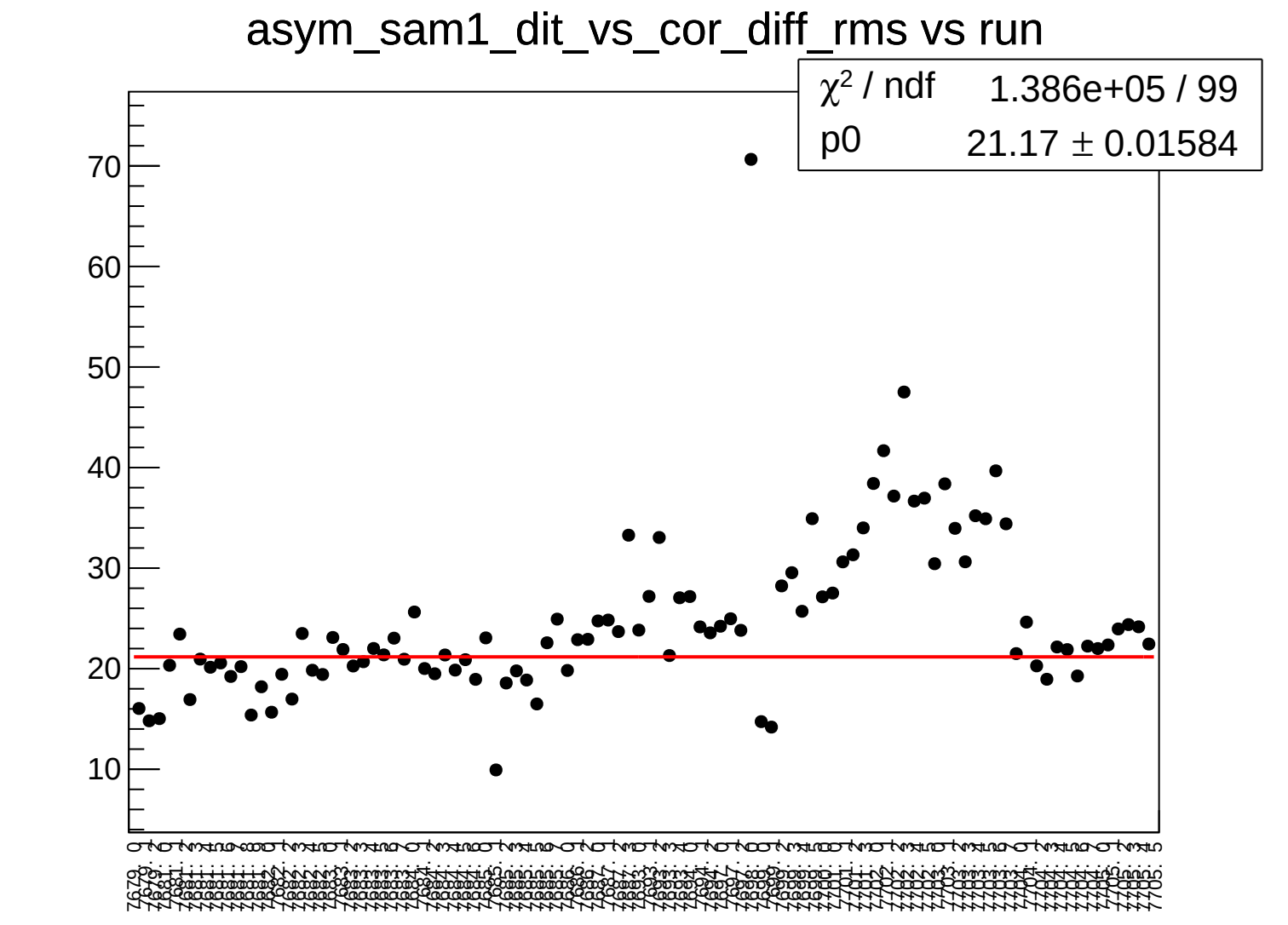

asym_sam1_rms vs run
χ² / ndf 9.24e+04 / 99
p0 666.5 ± 0.4923
1300
1200
1100
1000
900
800
700
600
500

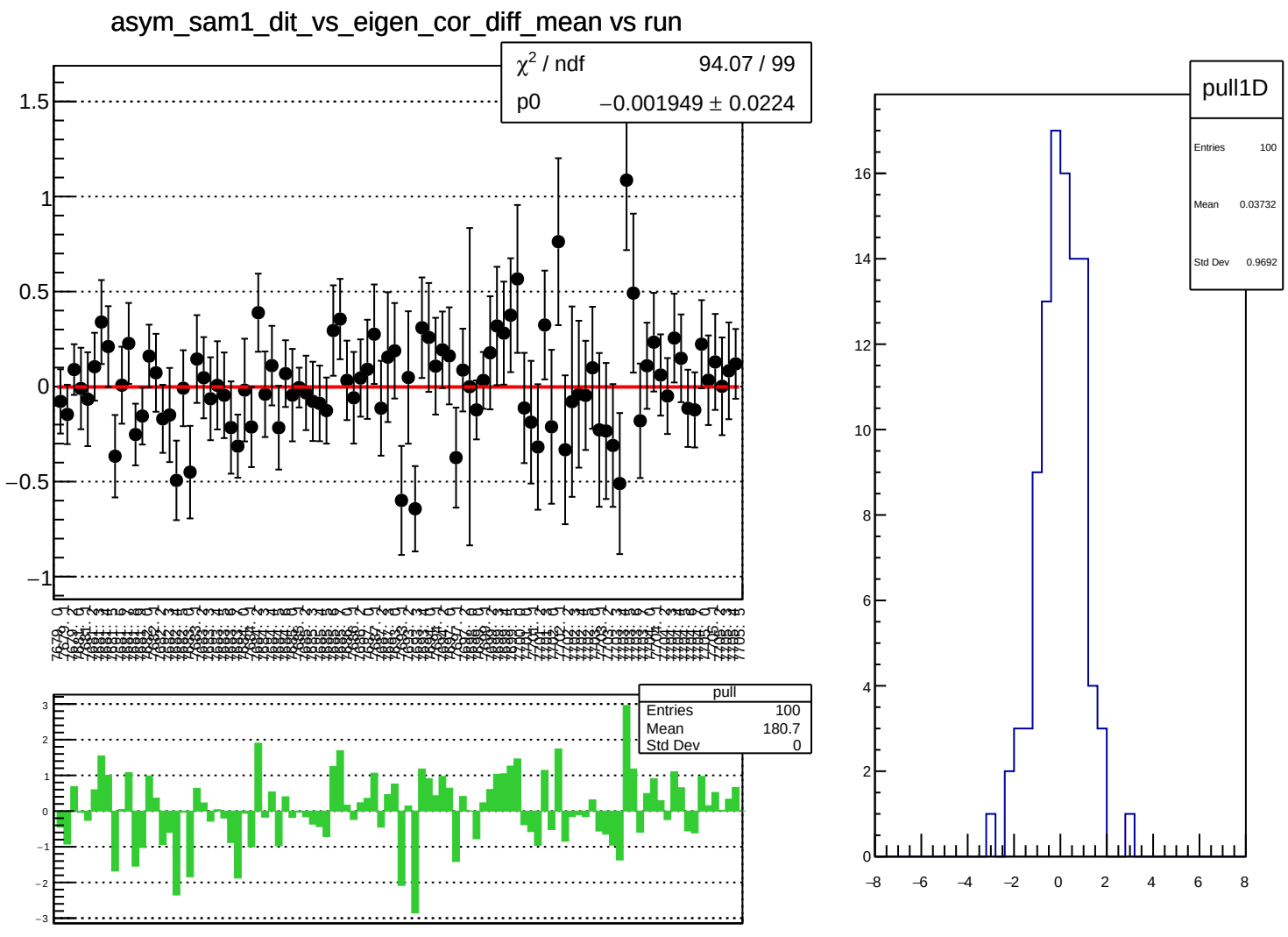

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 103.8 / 99
p0 2.357e−14 ± 4.564e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 100
Mean −25.82
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

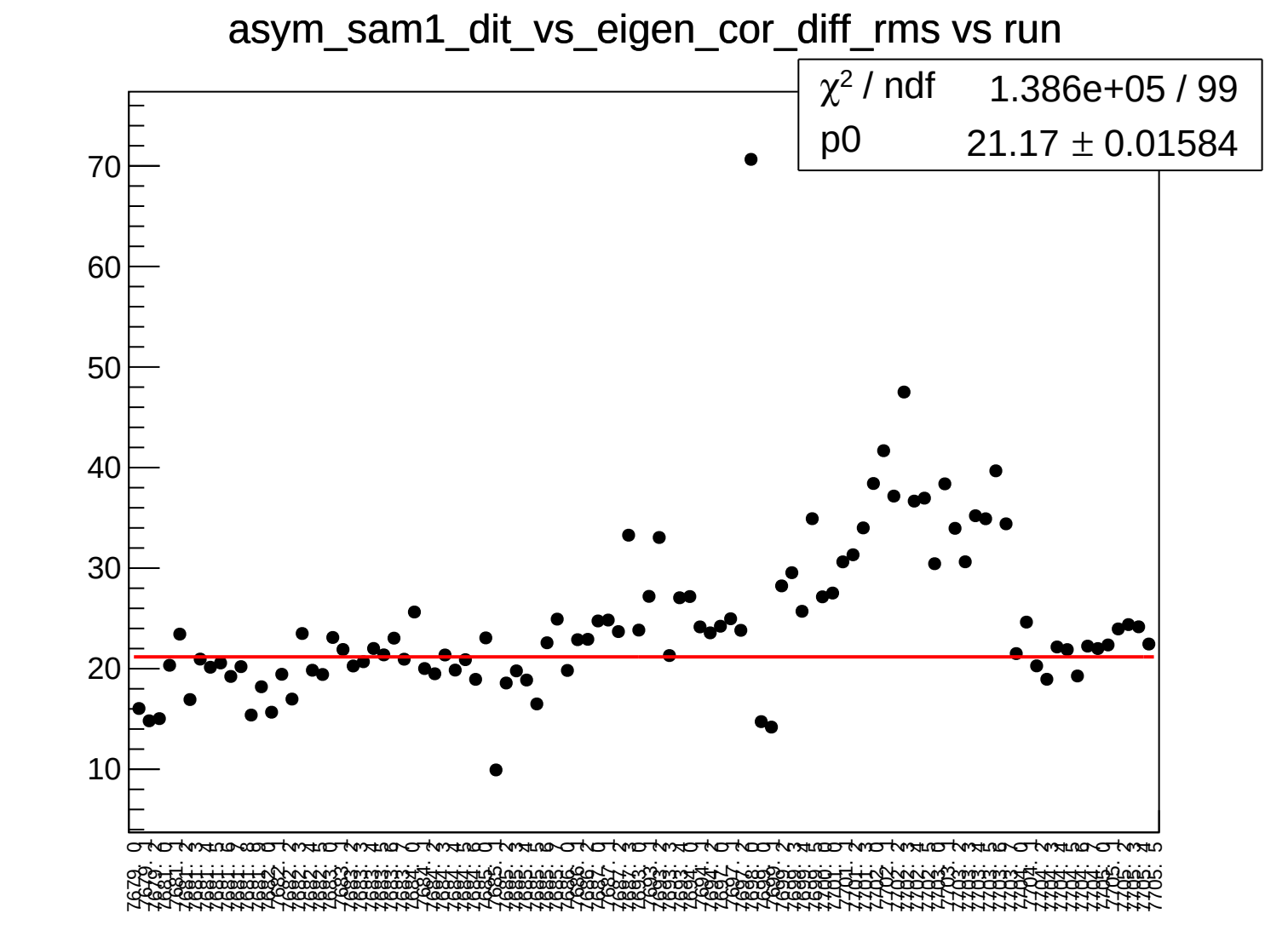

pull1D
Entries 100
Mean −0.008764
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

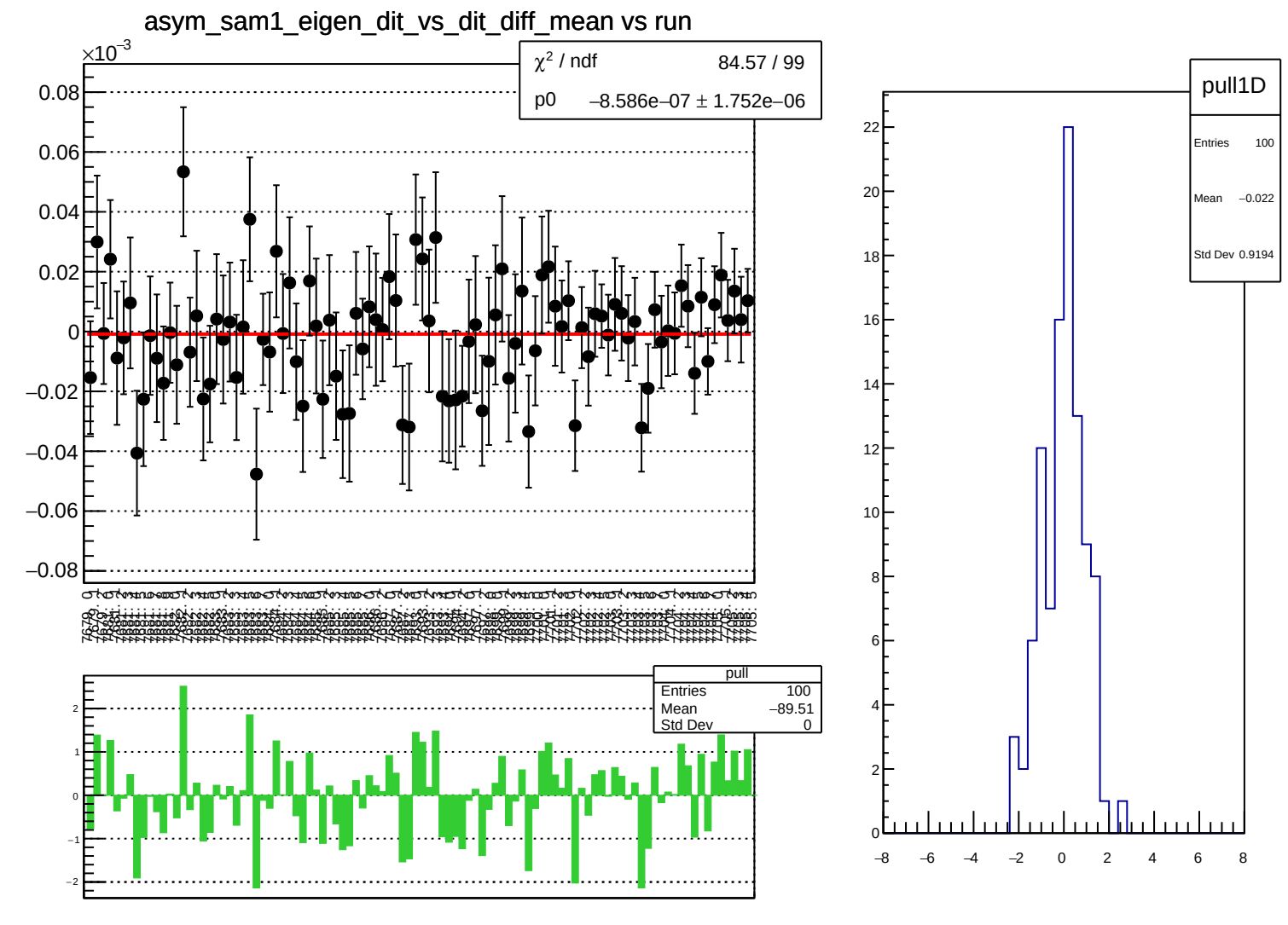

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.088e+06 / 99
p0 2.954e−11 ± 3.228e−14
0.05
0.04
0.03
0.02
0.01
0

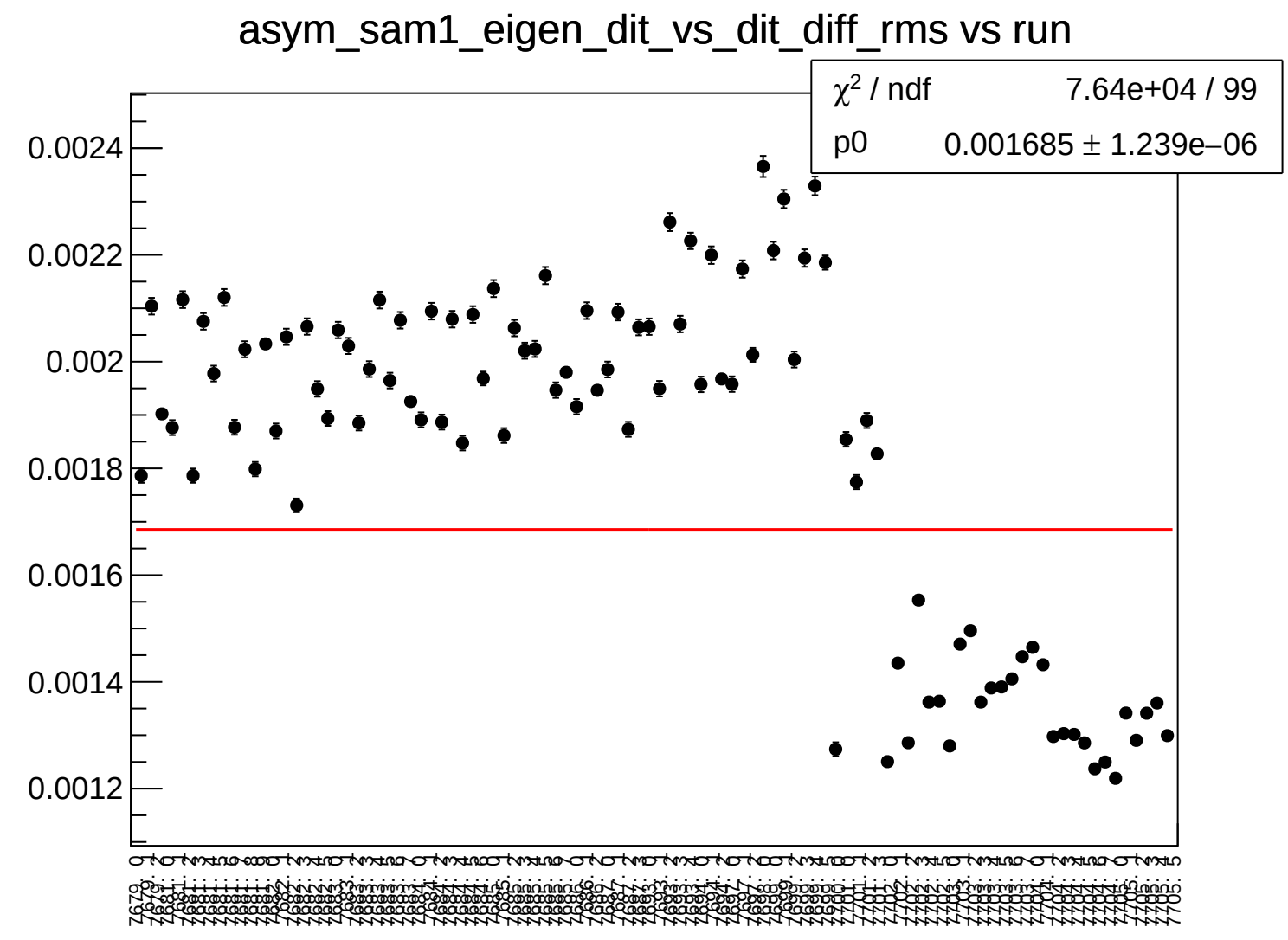

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 94.07 / 99
p0 −0.001949 ± 0.0224
pull
Entries 100
Mean 180.7
Std Dev 0
pull1D
Entries 100
Mean 0.03732
Std Dev 0.9692

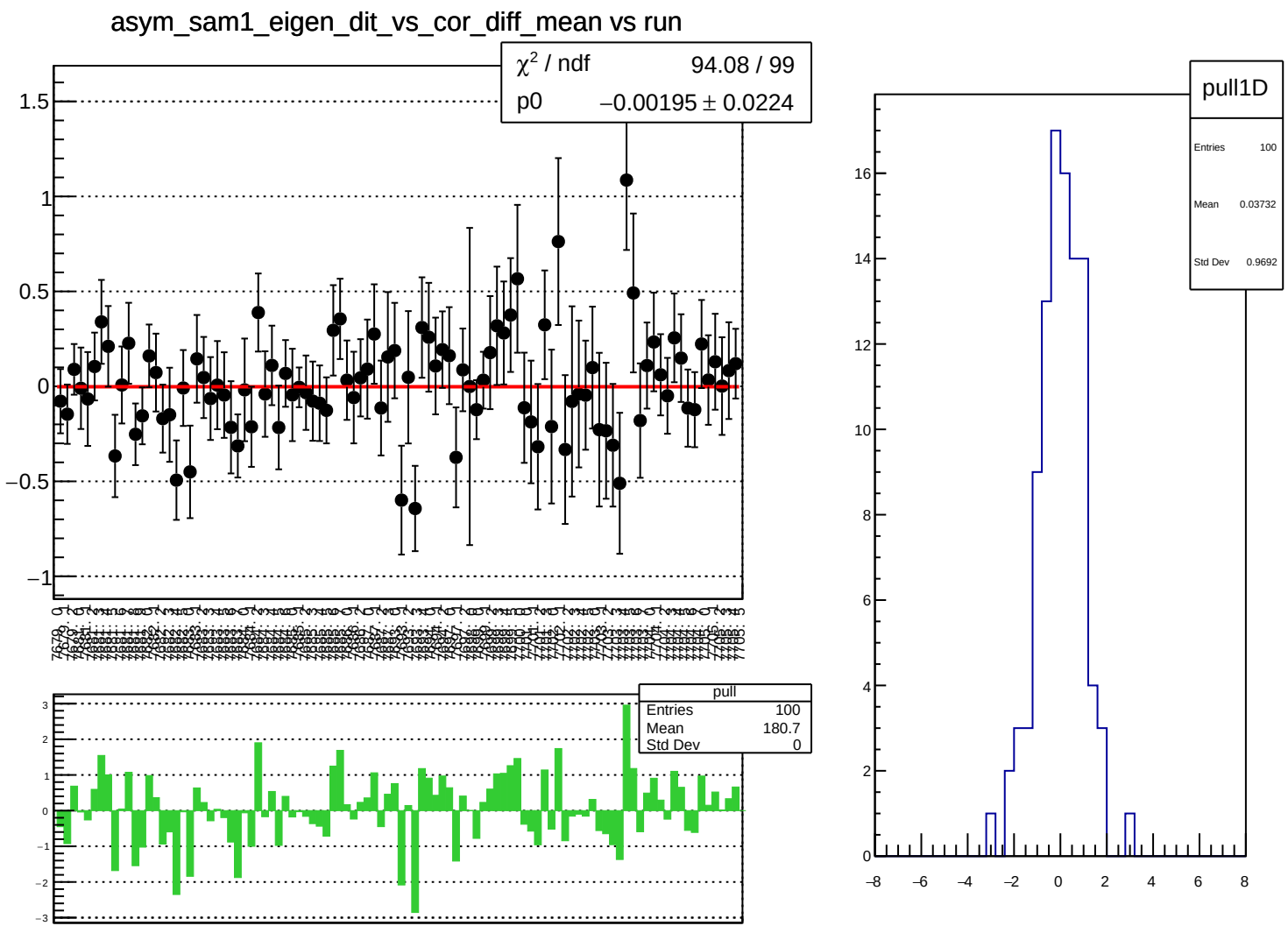

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 1.386e+05 / 99
p0 21.17 ± 0.01584
70
60
50
40
30
20
10

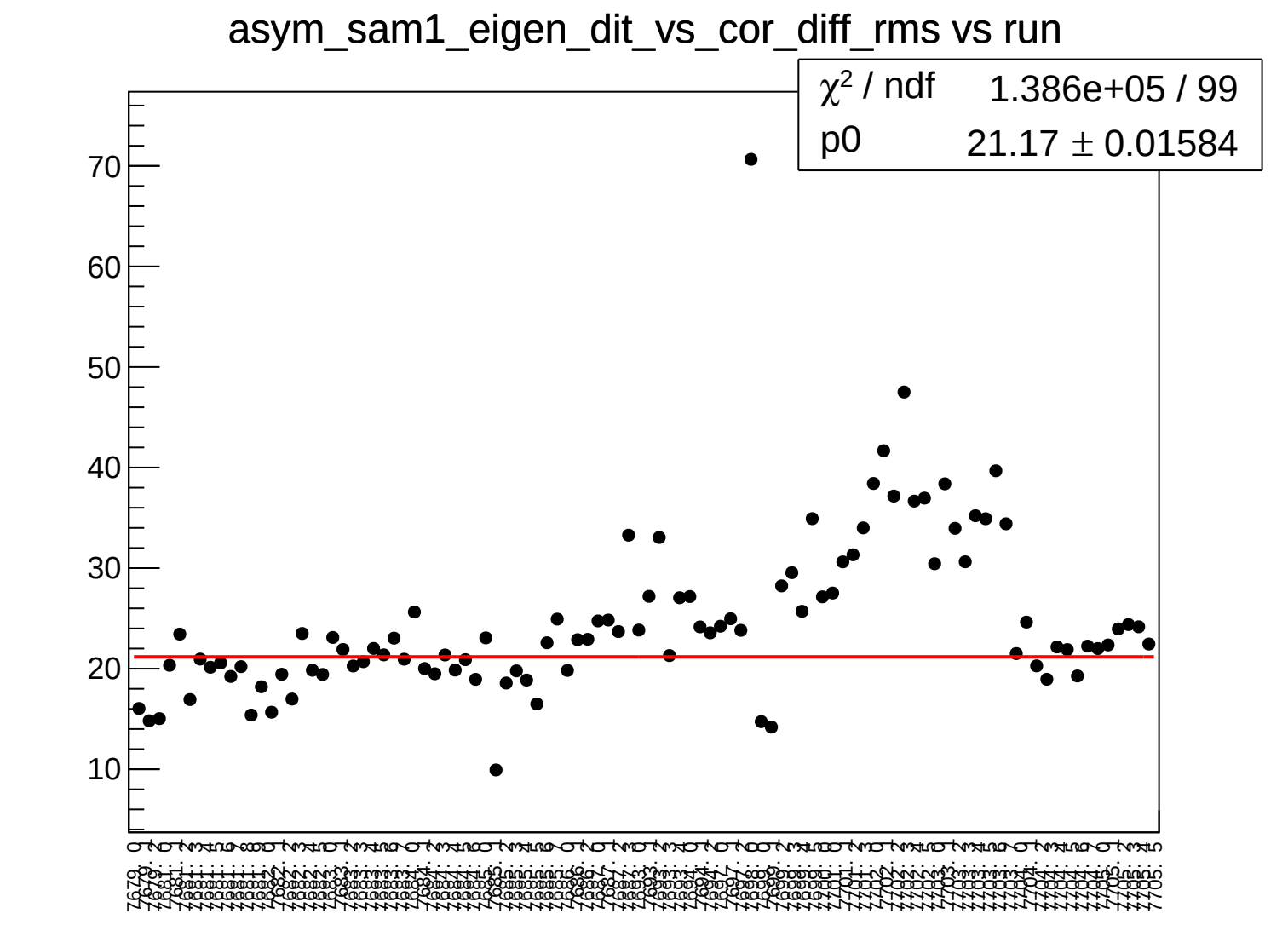

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.07 / 99
p0 −0.001949 ± 0.0224
pull
Entries 100
Mean 180.7
Std Dev 0
pull1D
Entries 100
Mean 0.03732
Std Dev 0.9692

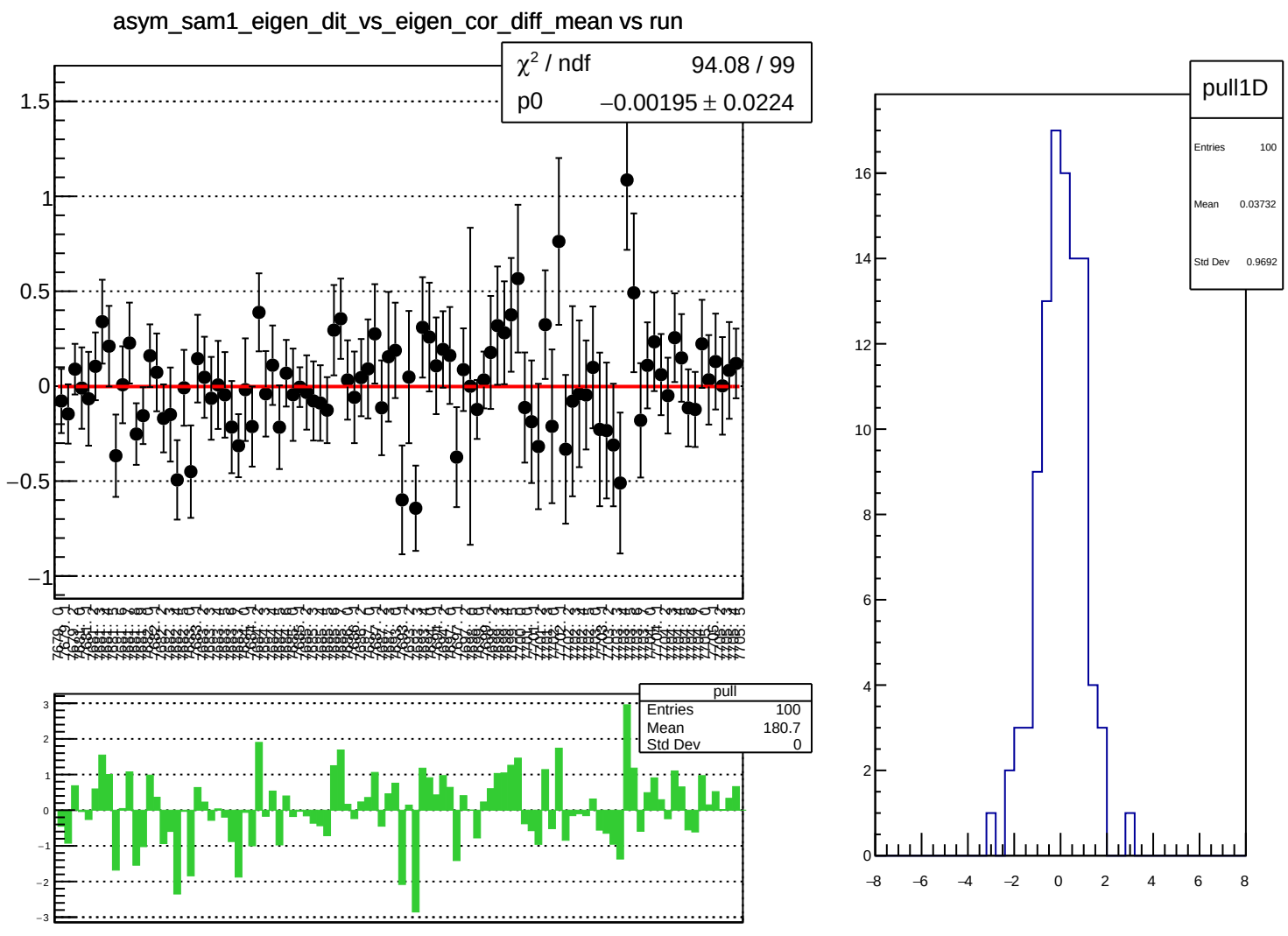

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.386e+05 / 99
p0 21.17 ± 0.01584
70
60
50
40
30
20
10

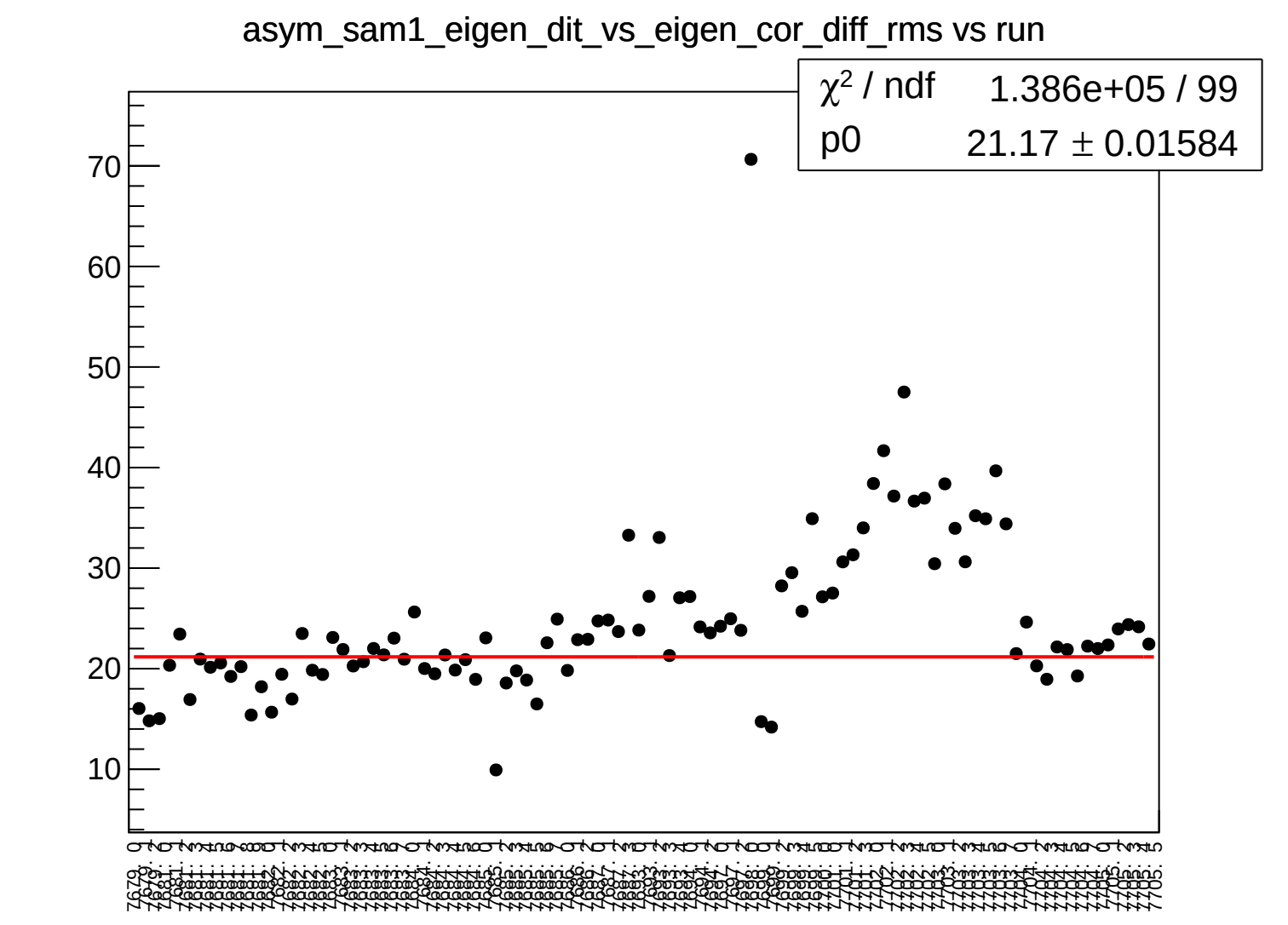

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.57 / 99
p0 −8.586e−07 ± 1.752e−06
pull
Entries 100
Mean −89.51
Std Dev 0
pull1D
Entries 100
Mean −0.022
Std Dev 0.9194

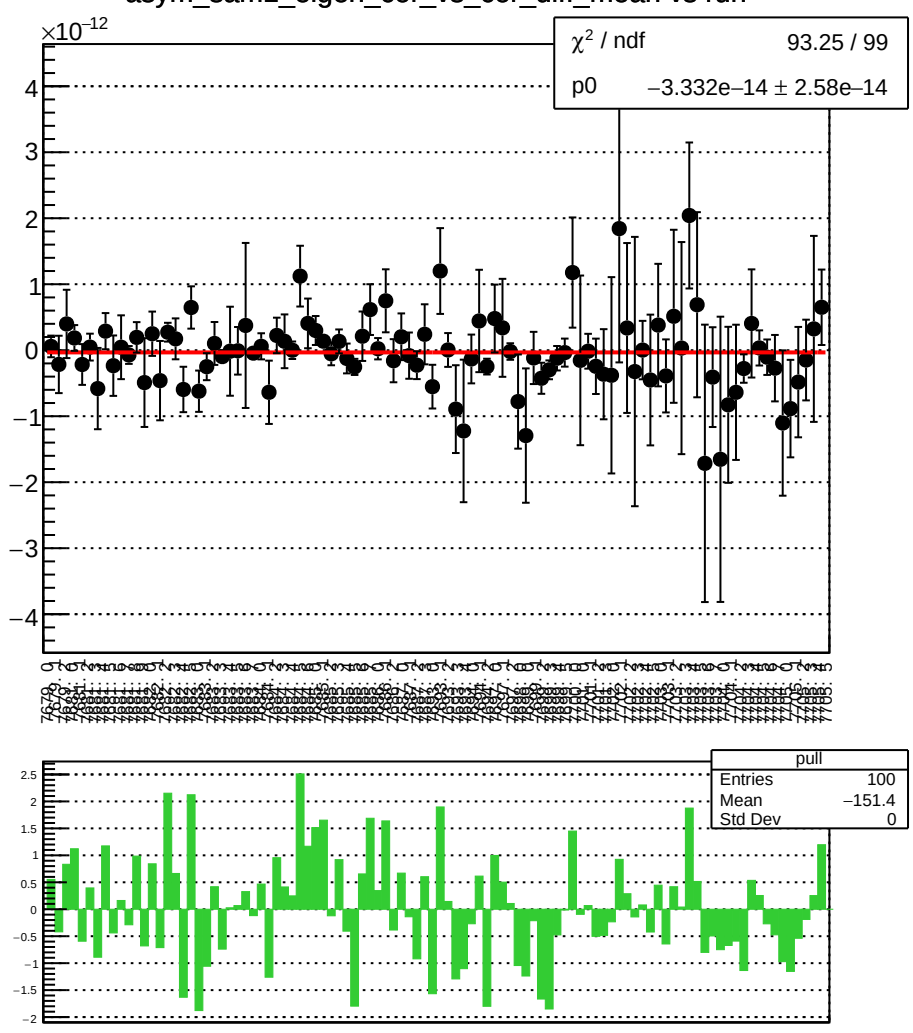

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.64e+04 / 99
p0 0.001685 ± 1.239e−06
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

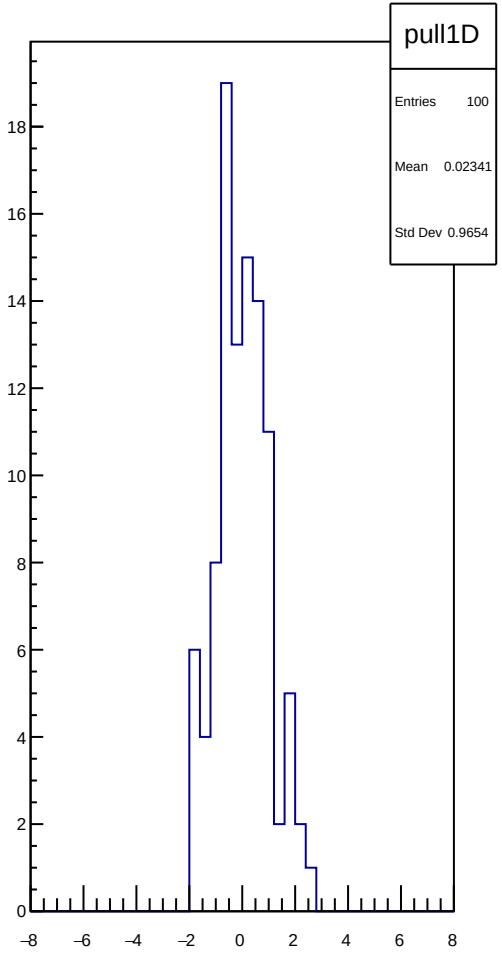

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.08 / 99
p0 −0.00195 ± 0.0224
pull
Entries 100
Mean 180.7
Std Dev 0
pull1D
Entries 100
Mean 0.03732
Std Dev 0.9692

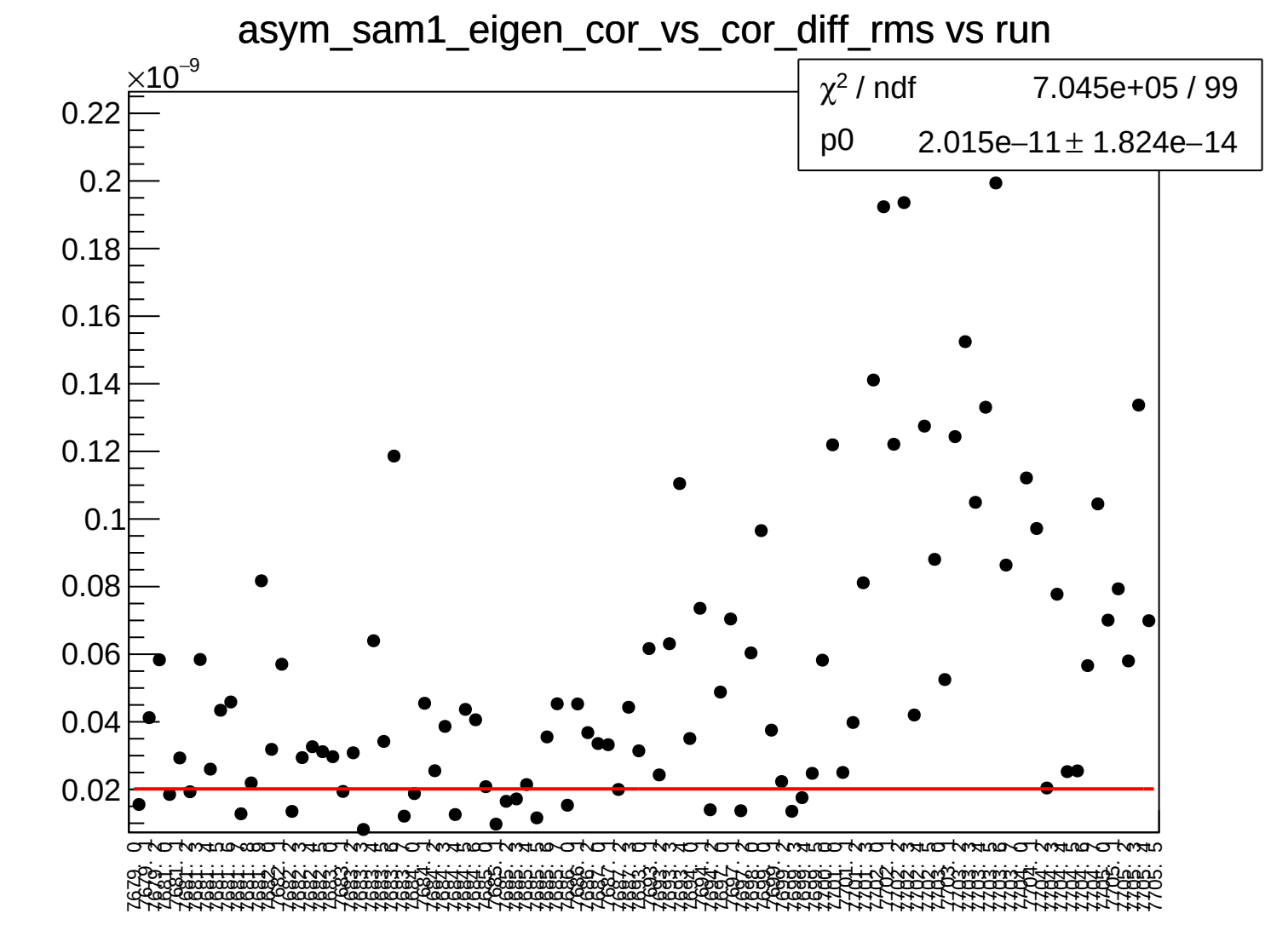

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.386e+05 / 99
p0 21.17 ± 0.01584
70
60
50
40
30
20
10

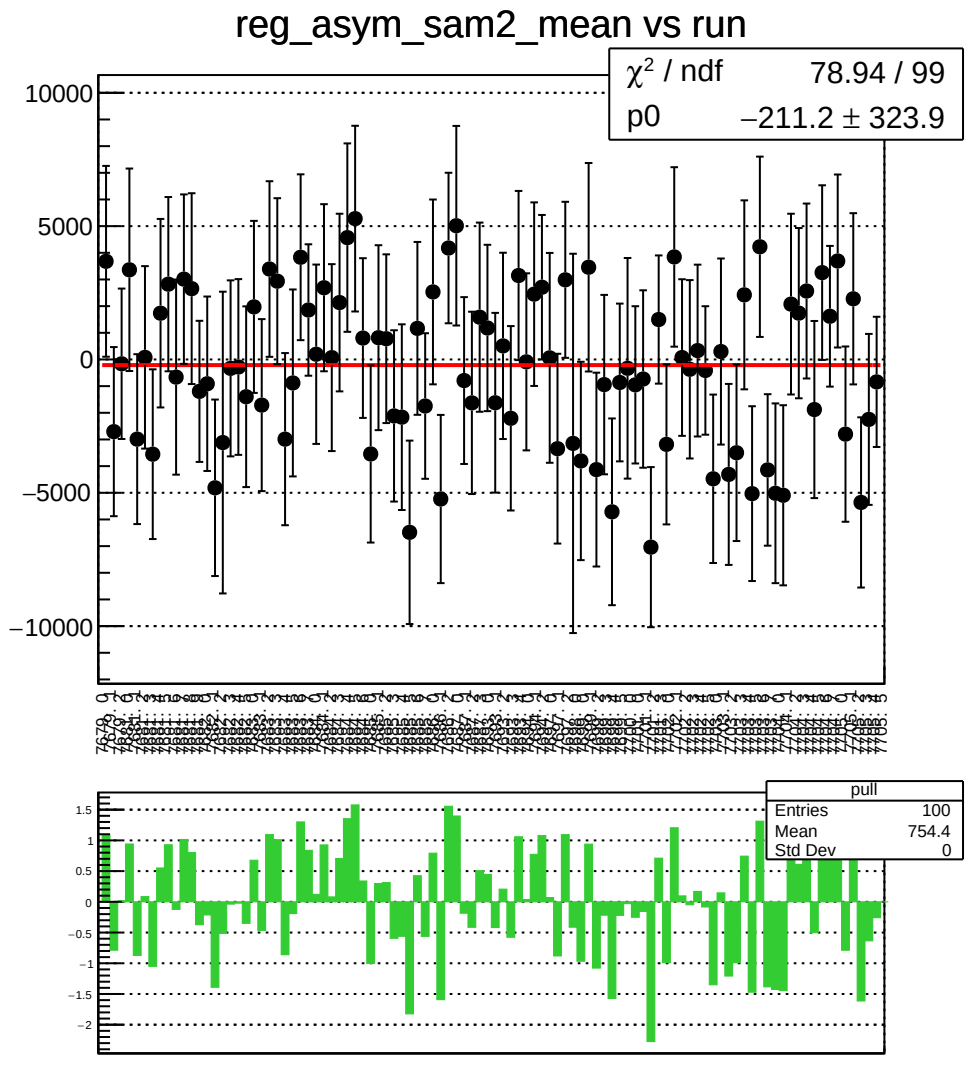

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.08 / 99
p0 −0.00195 ± 0.0224
pull
Entries 100
Mean 180.7
Std Dev 0
pull1D
Entries 100
Mean 0.03732
Std Dev 0.9692

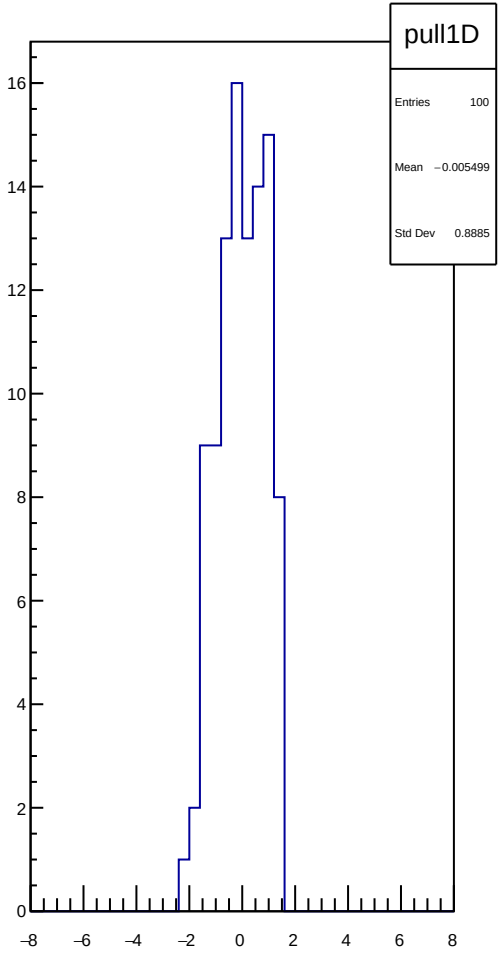

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.386e+05 / 99
p0 21.17 ± 0.01584
70
60
50
40
30
20
10

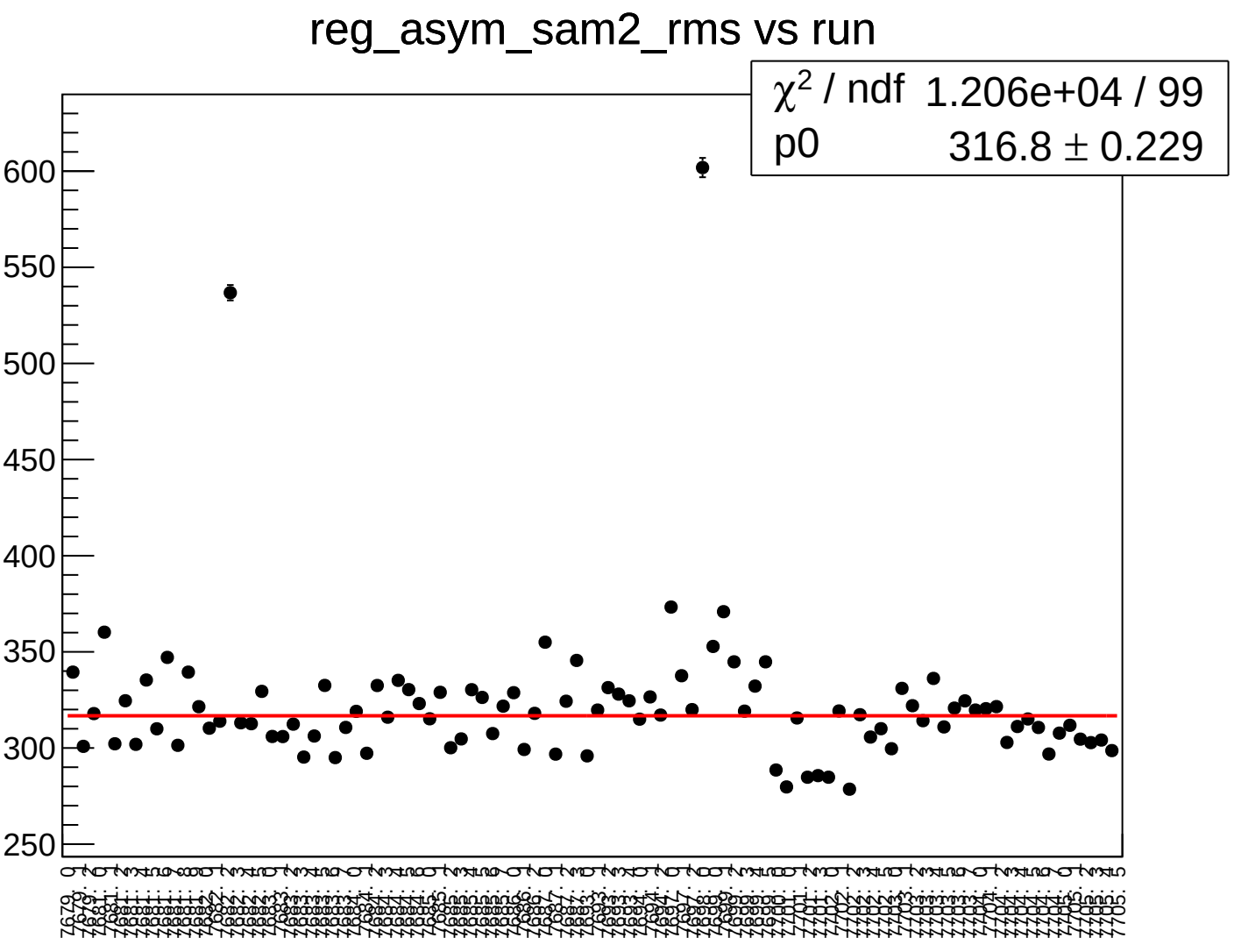

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.25 / 99
p0 −3.332e−14 ± 2.58e−14
pull
Entries 100
Mean −151.4
Std Dev 0

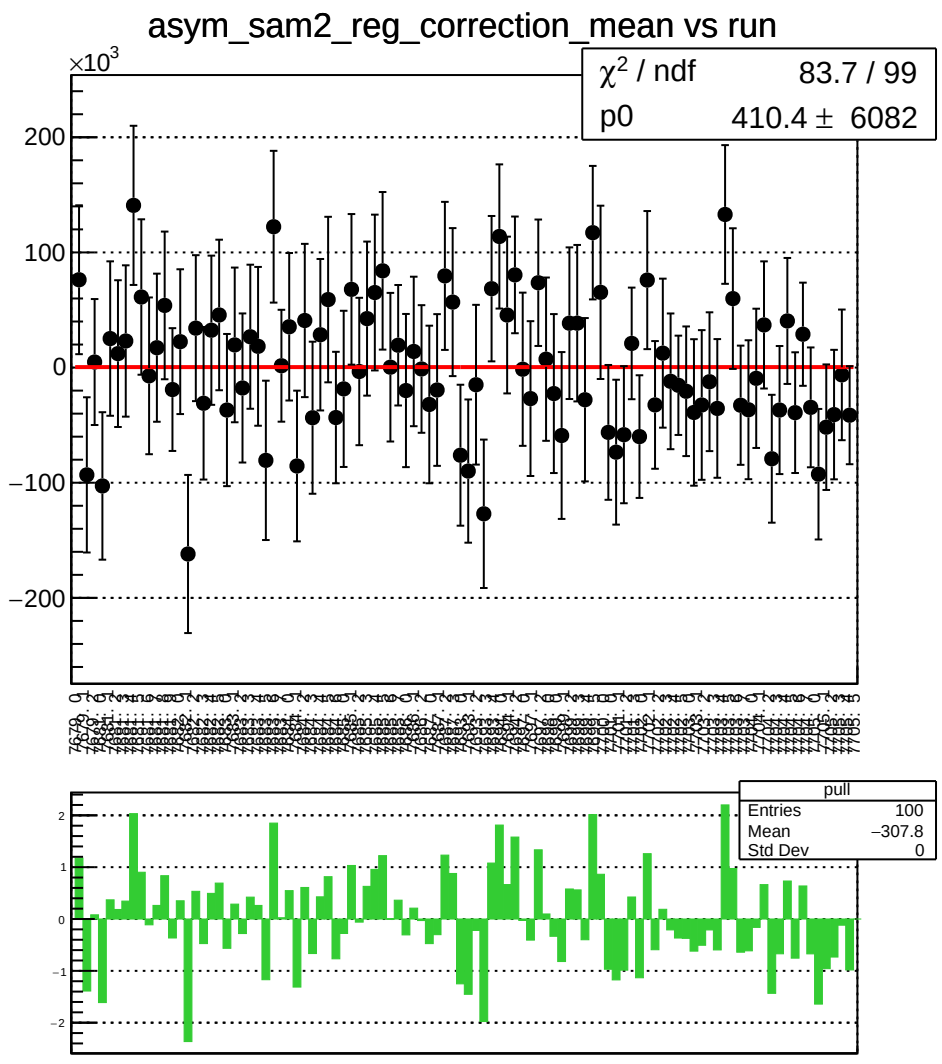

pull1D
Entries 100
Mean 0.02341
Std Dev 0.9654

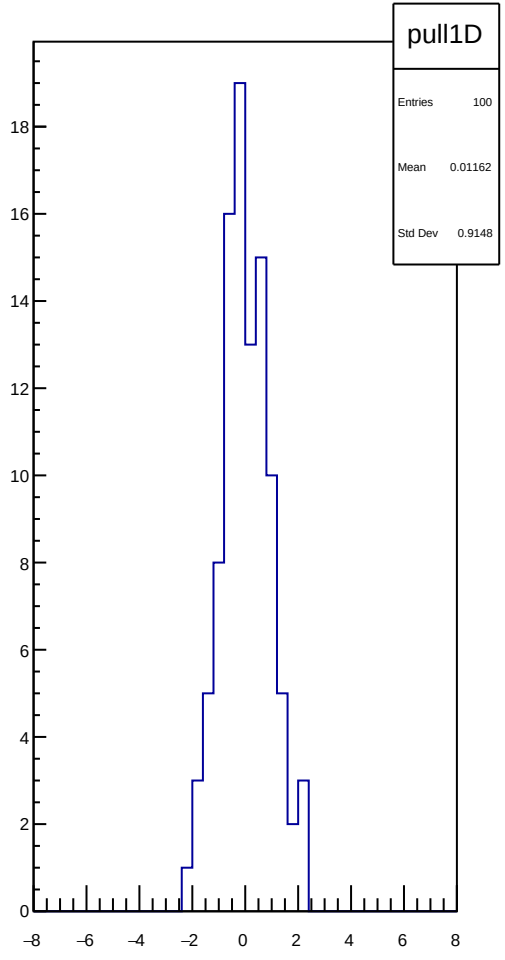

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.045e+05 / 99
p0 2.015e−11 ± 1.824e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

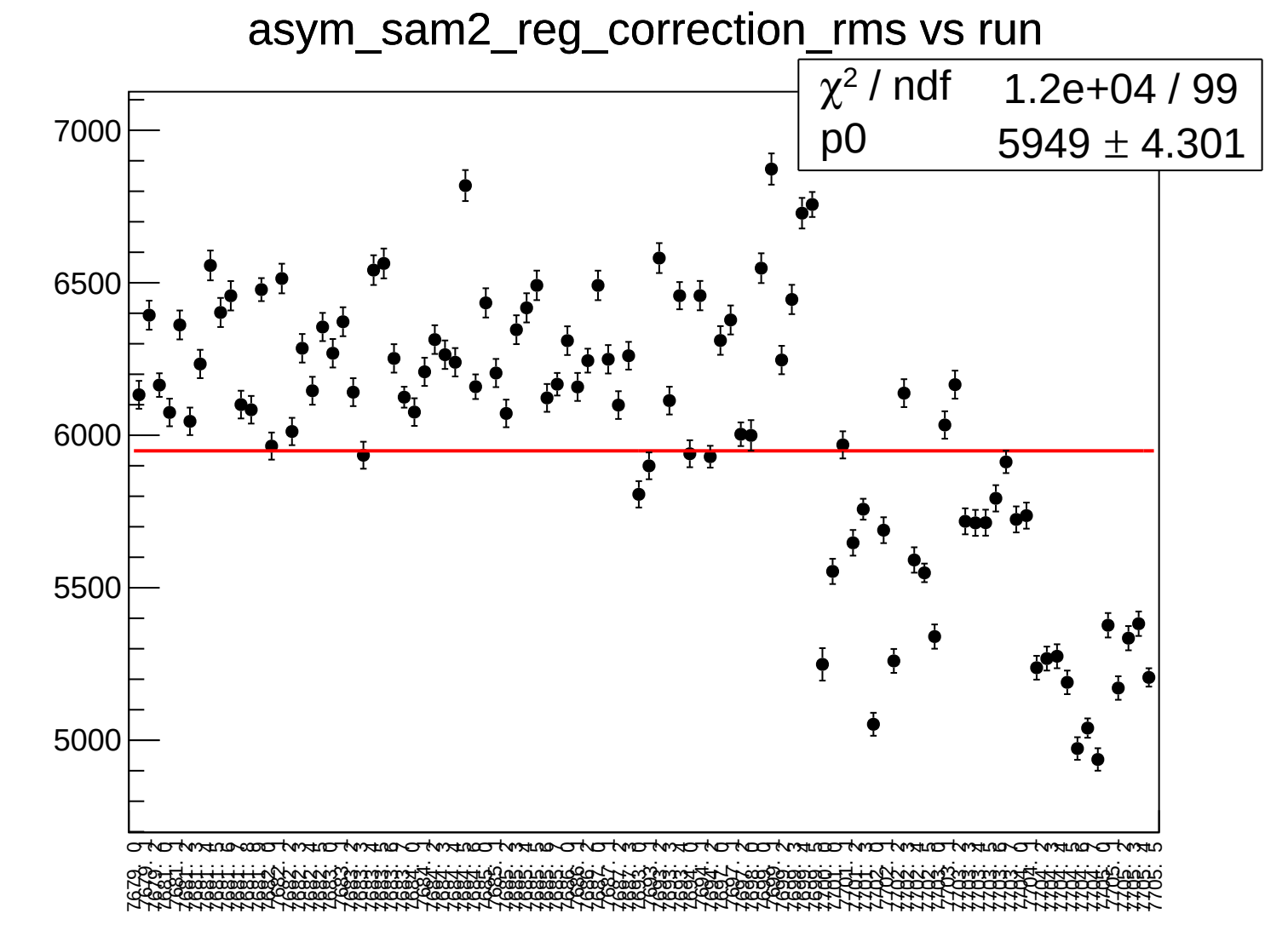

reg_asym_sam2_mean vs run
χ² / ndf 78.94 / 99
p0 −211.2 ± 323.9
10000
5000
0
−5000
−10000
pull
Entries 100
Mean 754.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

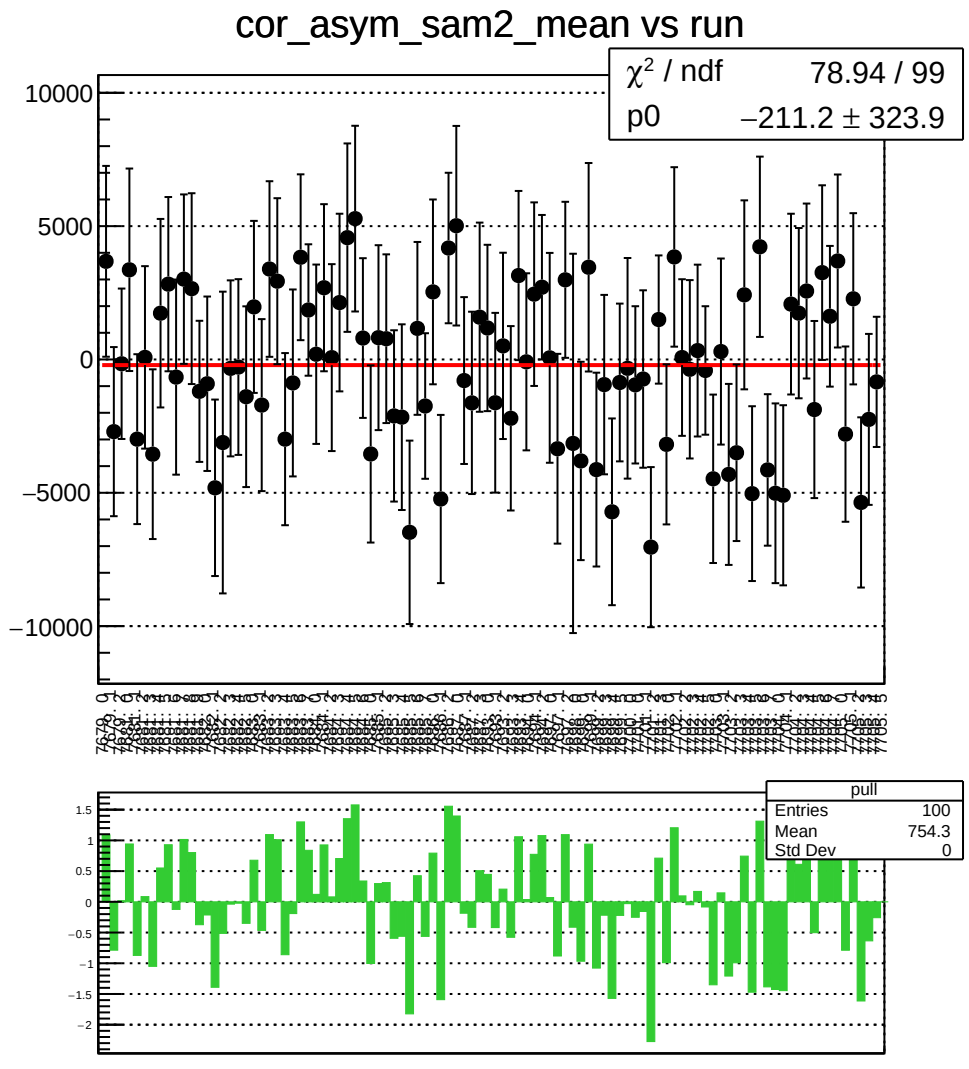

pull1D
Entries 100
Mean −0.005499
Std Dev 0.8885
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

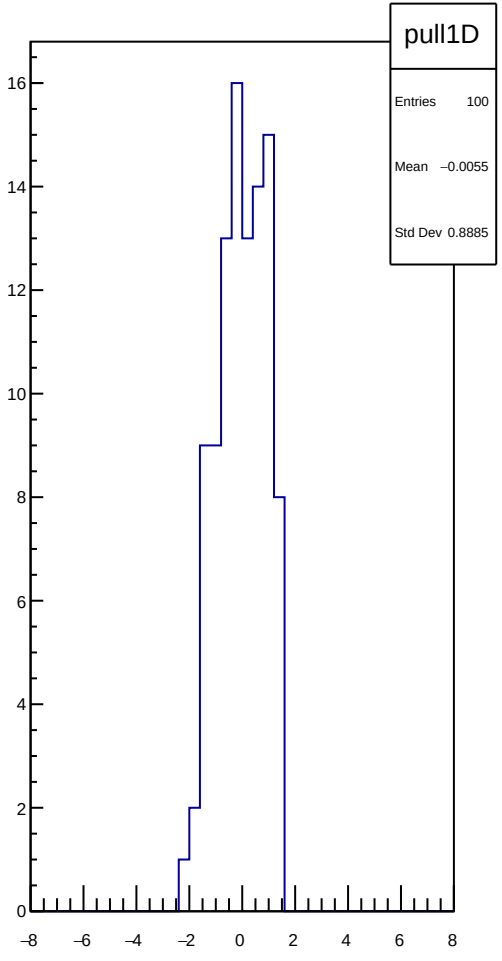

reg_asym_sam2_rms vs run
χ² / ndf 1.206e+04 / 99
p0 316.8 ± 0.229
600
550
500
450
400
350
300
250

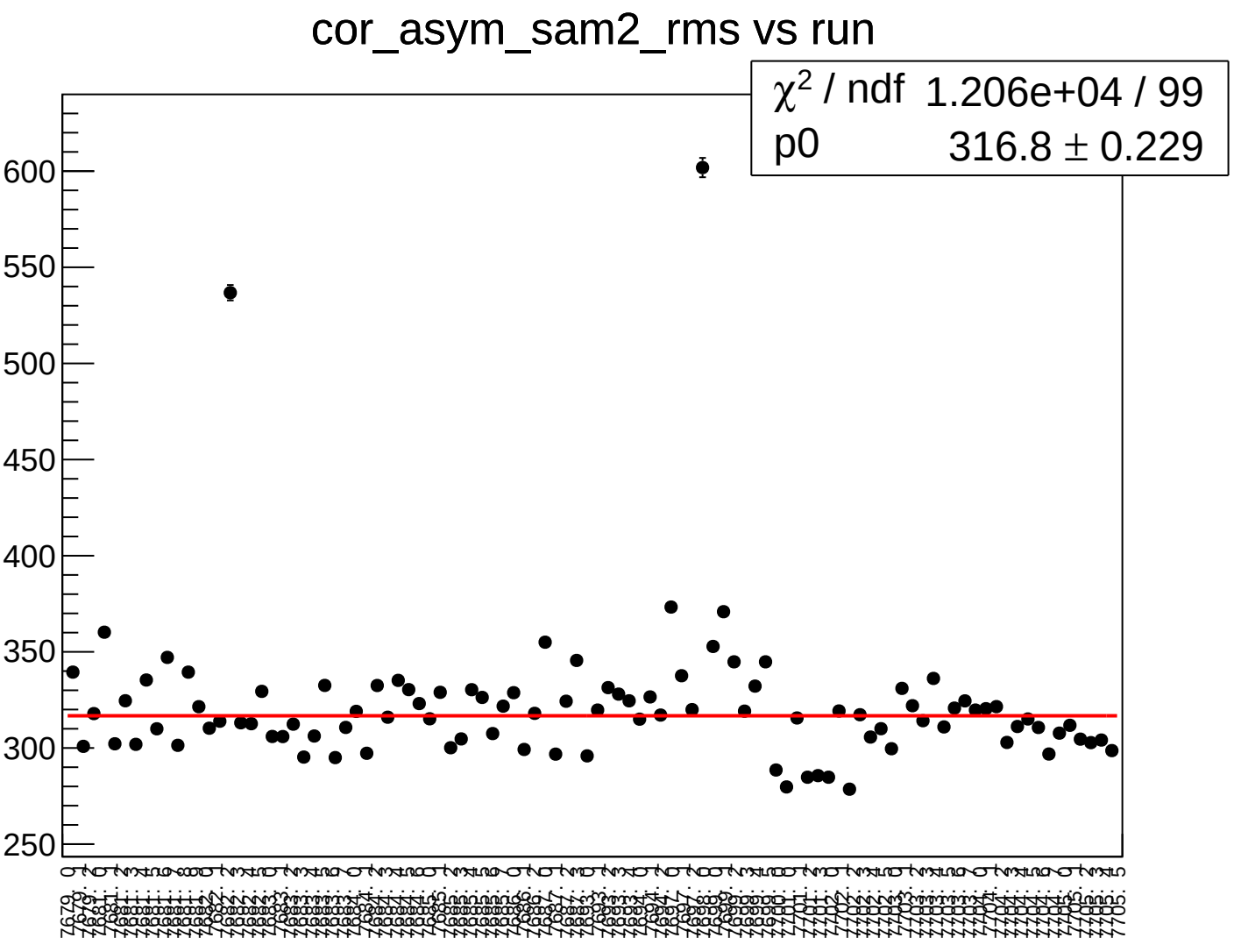

asym_sam2_reg_correction_mean vs run
×10^3
χ^2 / ndf 83.7 / 99
p0 410.4 ± 6082
200
100
0
−100
−200
pull
Entries 100
Mean −307.8
Std Dev 0
2
1
0
−1
−2

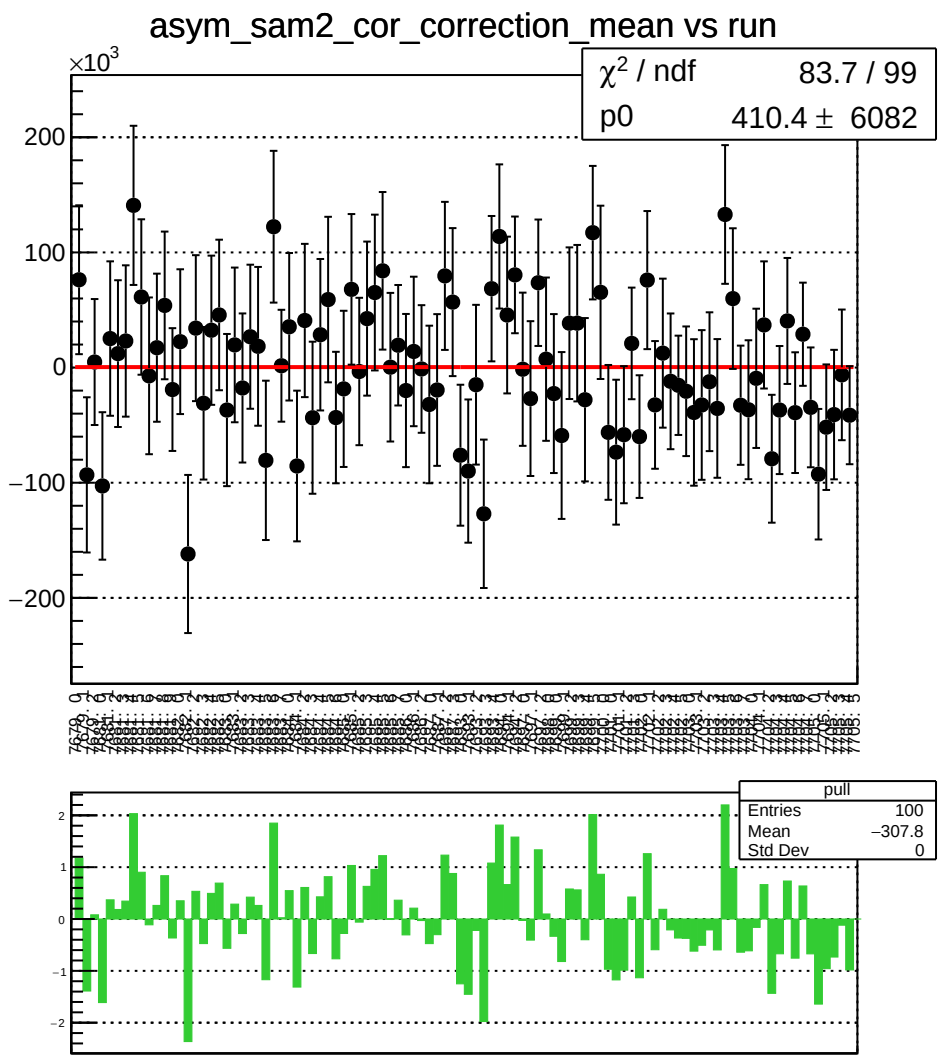

pull1D
Entries 100
Mean 0.01162
Std Dev 0.9148
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

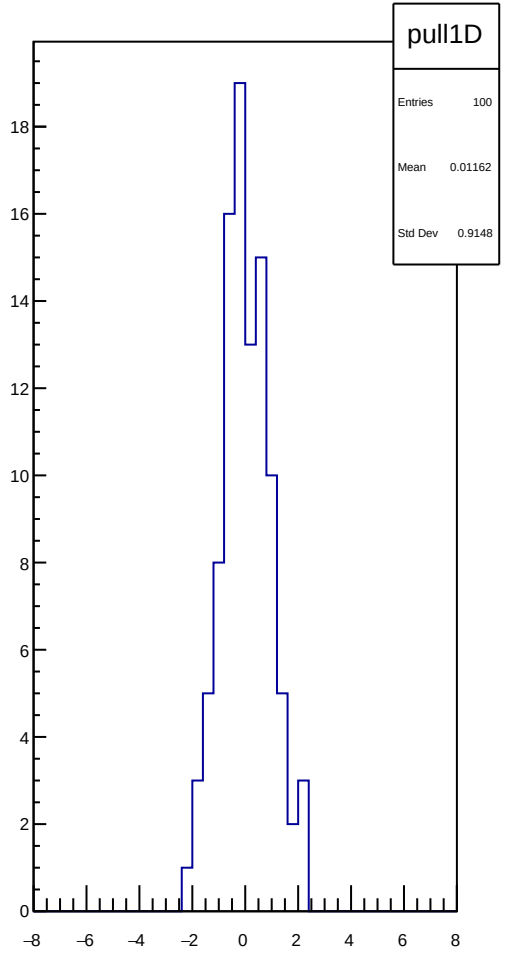

asym_sam2_reg_correction_rms vs run
χ^2 / ndf 1.2e+04 / 99
p0 5949 ± 4.301
7000
6500
6000
5500
5000

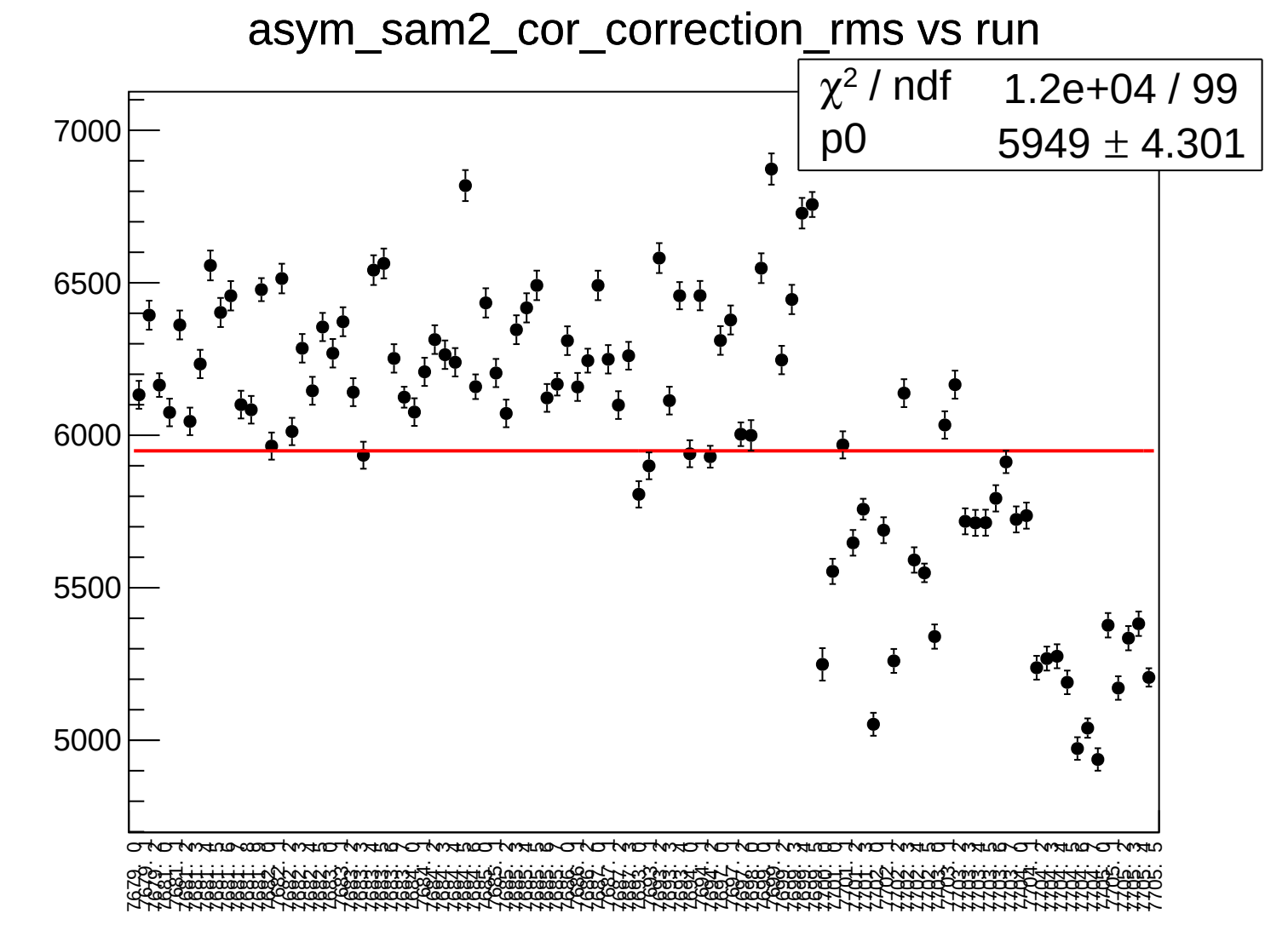

cor_asym_sam2_mean vs run
χ² / ndf 78.94 / 99
p0 −211.2 ± 323.9
10000
5000
0
−5000
−10000
pull
Entries 100
Mean 754.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

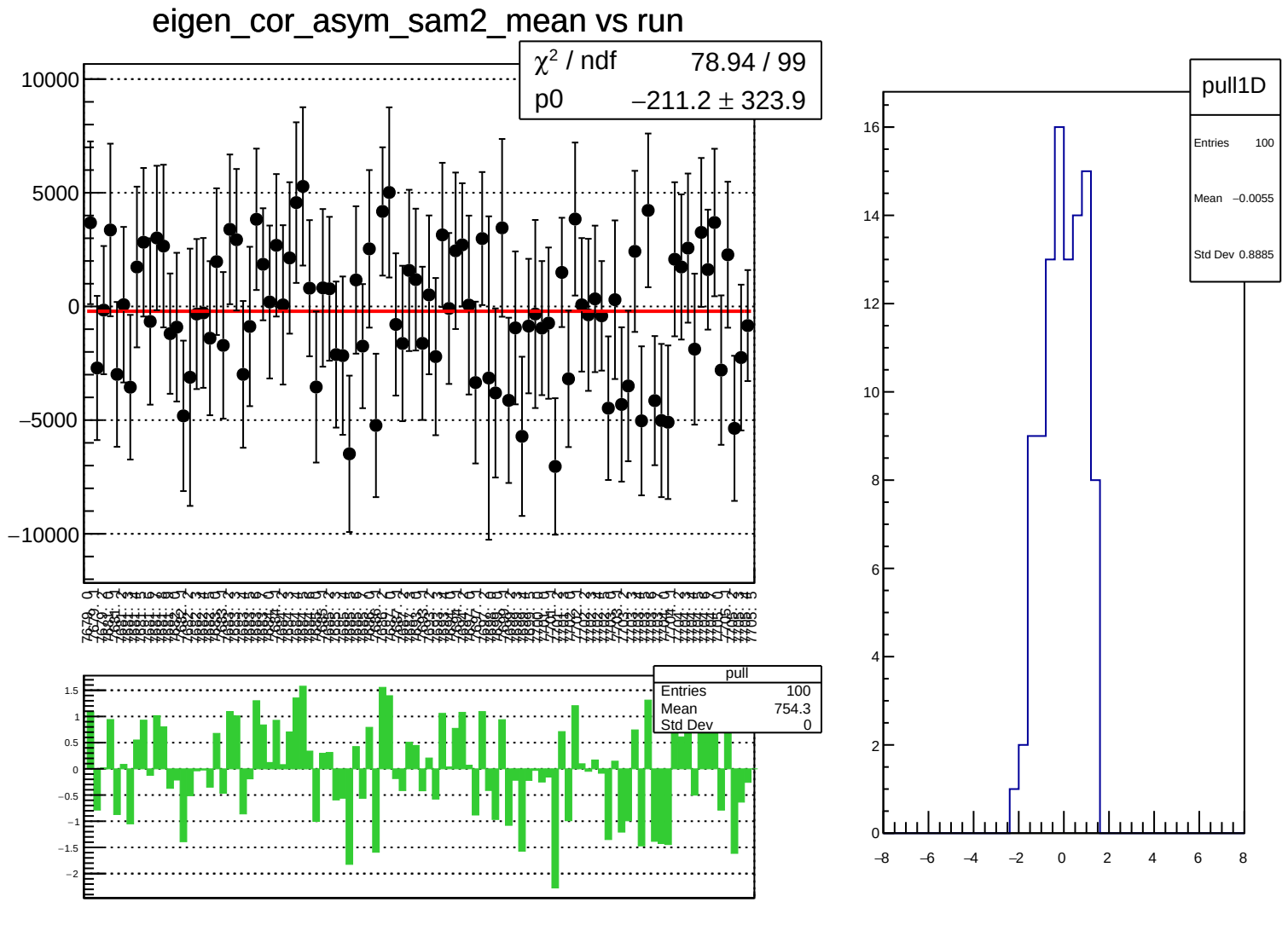

pull1D
Entries 100
Mean −0.0055
Std Dev 0.8885
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam2_rms vs run
χ^2 / ndf 1.206e+04 / 99
p0 316.8 ± 0.229
600
550
500
450
400
350
300
250


asym_sam2_cor_correction_mean vs run
×10^3
χ² / ndf 83.7 / 99
p0 410.4 ± 6082
200
100
0
−100
−200
pull
Entries 100
Mean −307.8
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 100
Mean 0.01162
Std Dev 0.9148
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam2_cor_correction_rms vs run
χ² / ndf 1.2e+04 / 99
p0 5949 ± 4.301
7000
6500
6000
5500
5000


eigen_cor_asym_sam2_mean vs run
χ² / ndf 78.94 / 99
p0 −211.2 ± 323.9
10000
5000
0
−5000
−10000
pull
Entries 100
Mean 754.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 100
Mean −0.0055
Std Dev 0.8885
16
14
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10
8
6
4
2
0
−8
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−4
−2
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2
4
6
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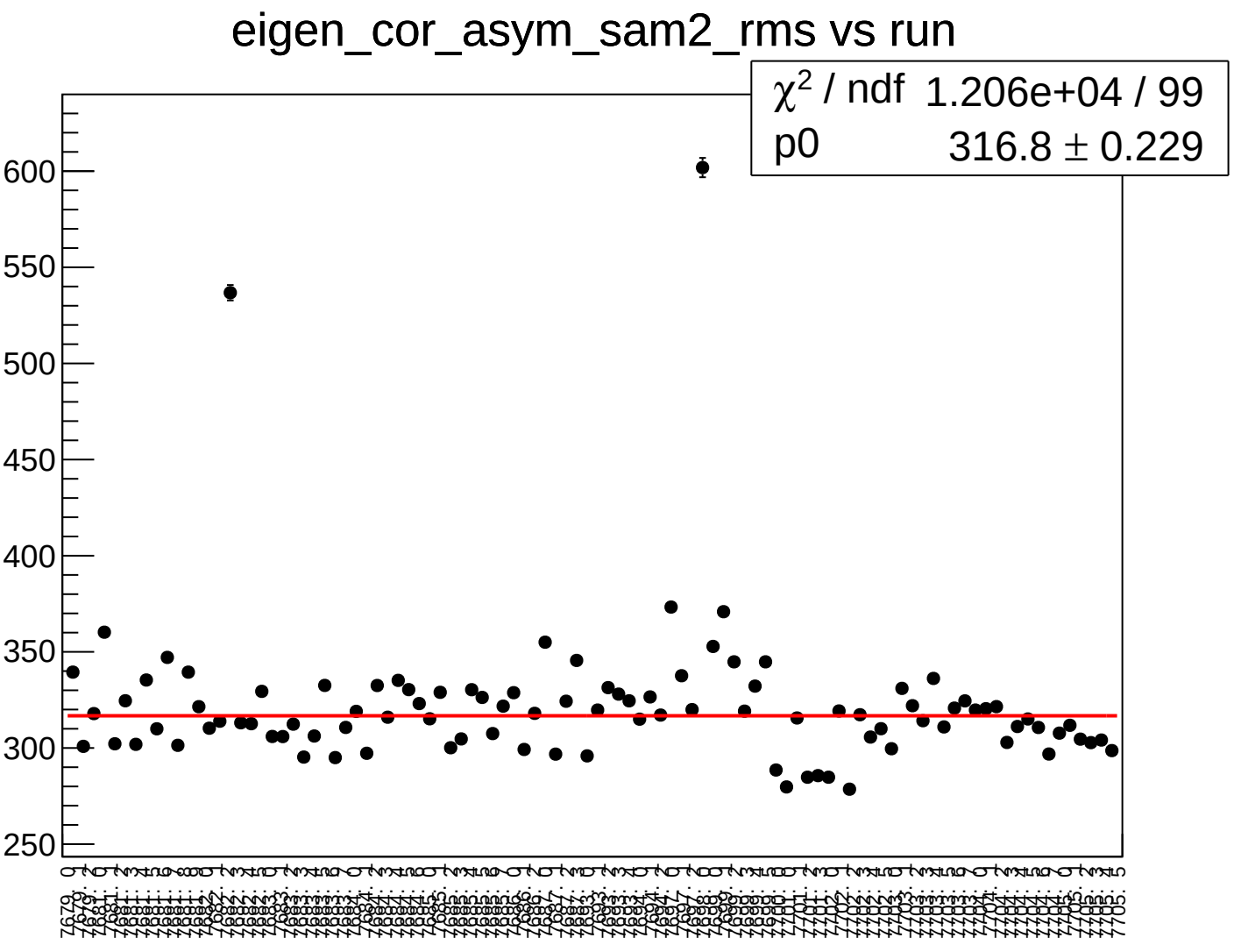
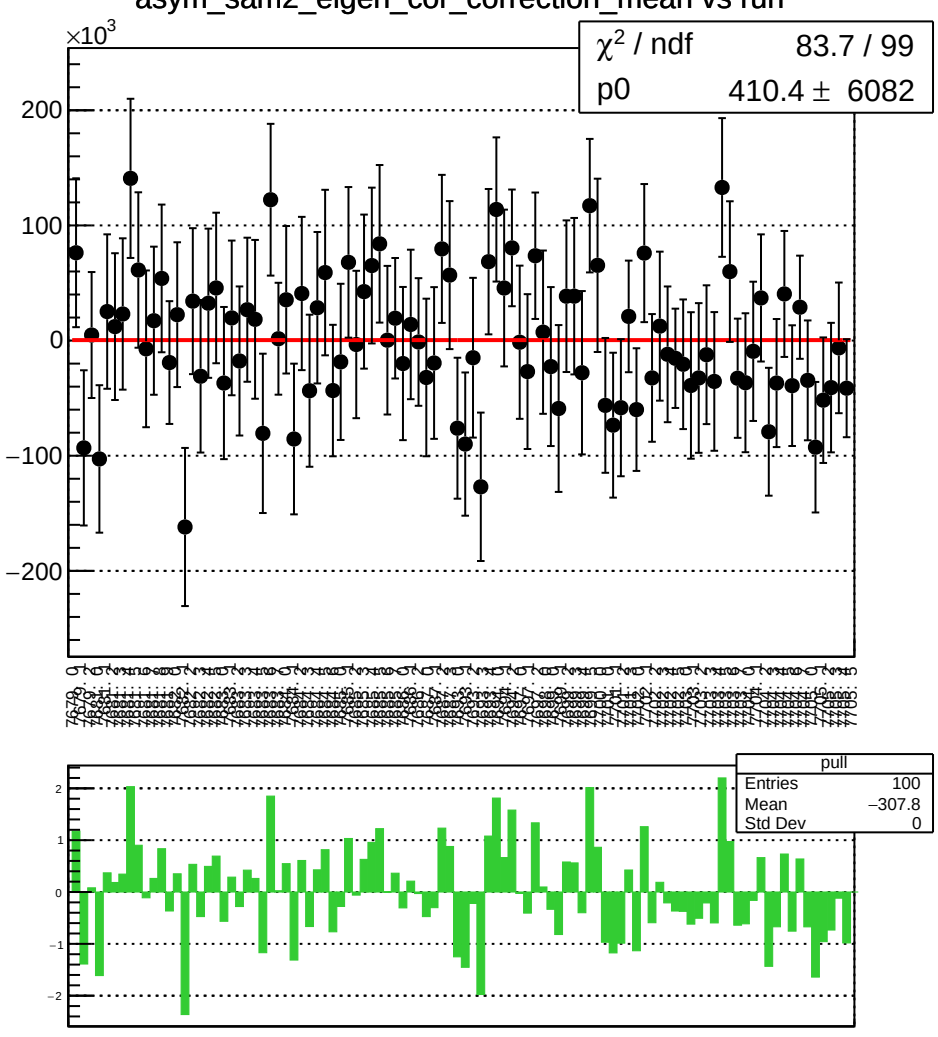
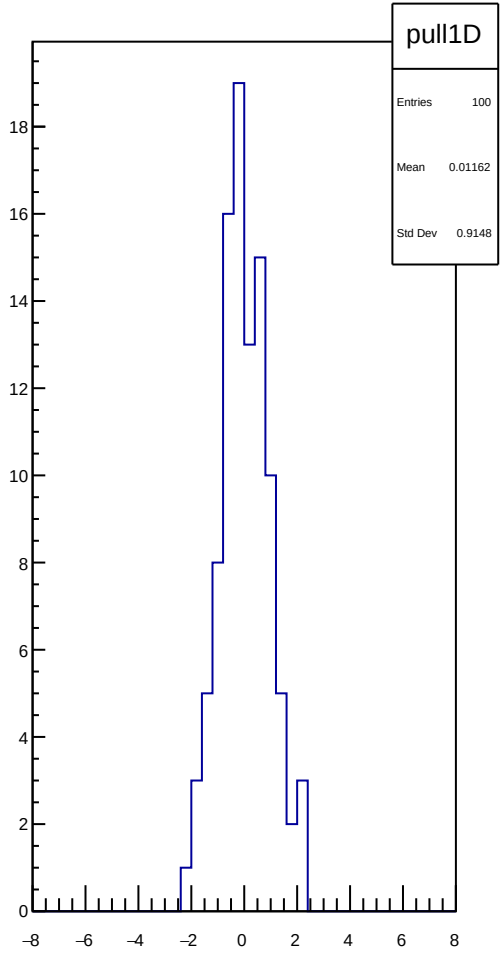

eigen_cor_asym_sam2_rms vs run
χ² / ndf 1.206e+04 / 99
p0 316.8 ± 0.229
600
550
500
450
400
350
300
250


asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 83.7 / 99
p0 410.4 ± 6082
200
100
0
−100
−200
pull
Entries 100
Mean −307.8
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 100
Mean 0.01162
Std Dev 0.9148
18
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8
6
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2
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−8
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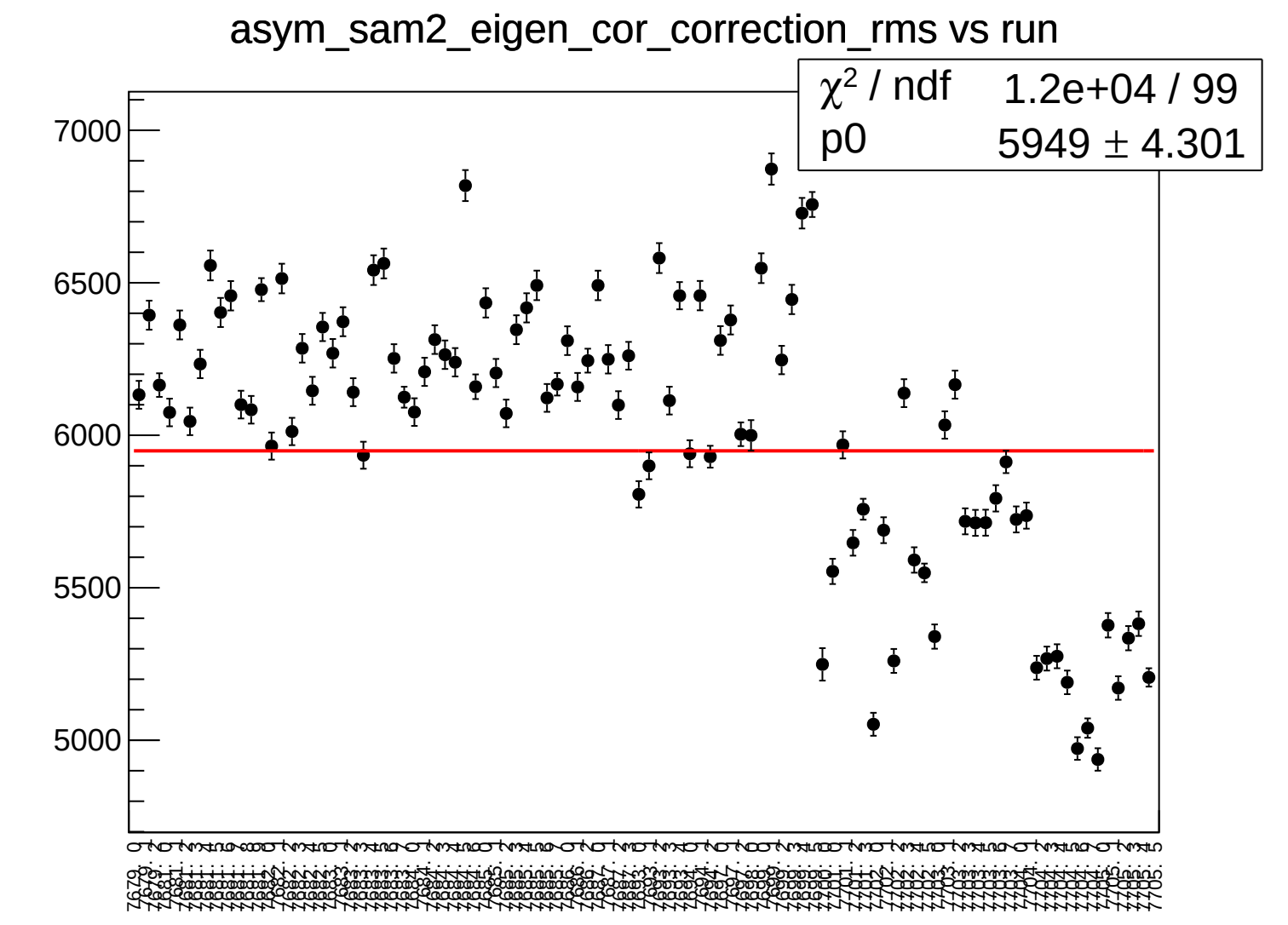
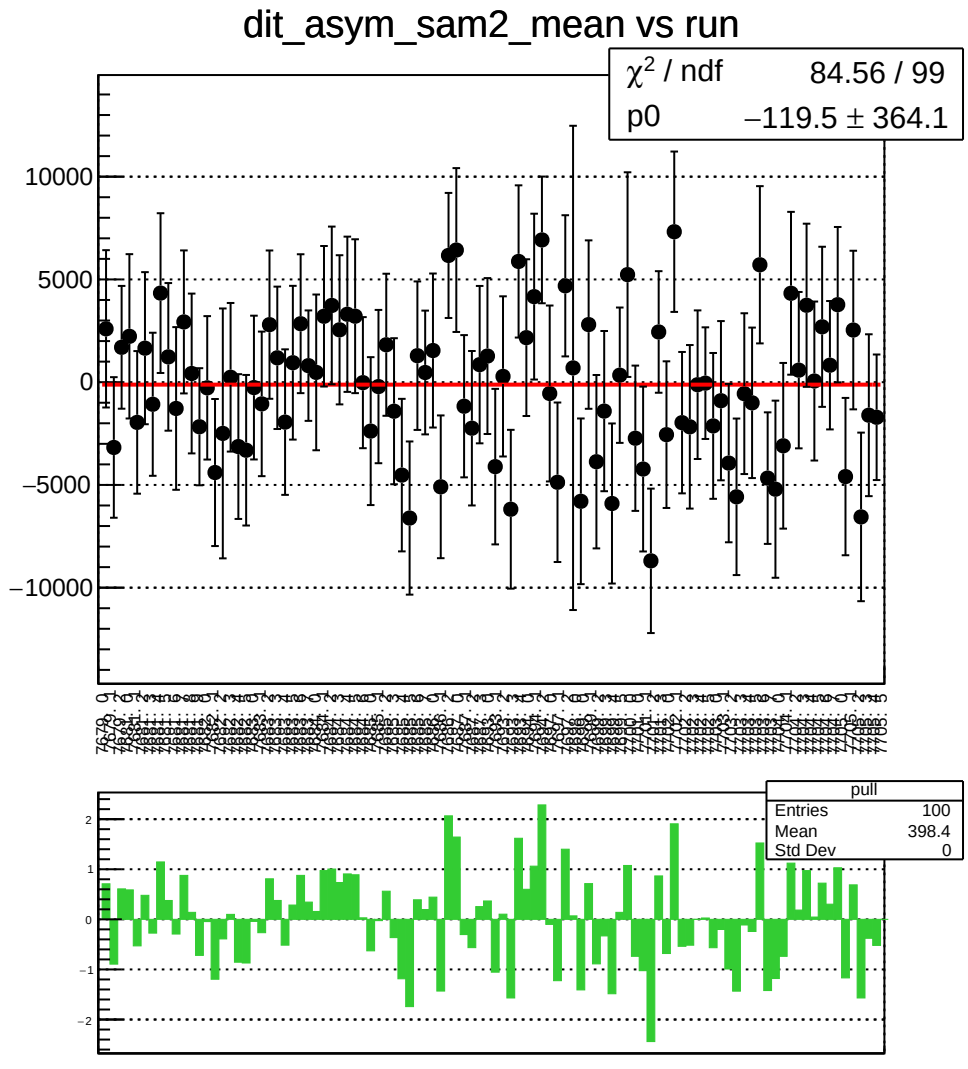
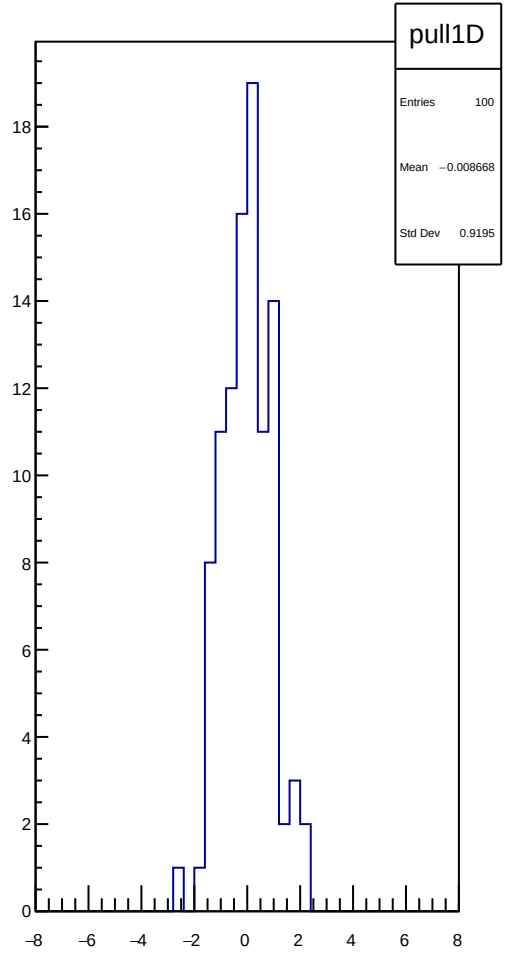
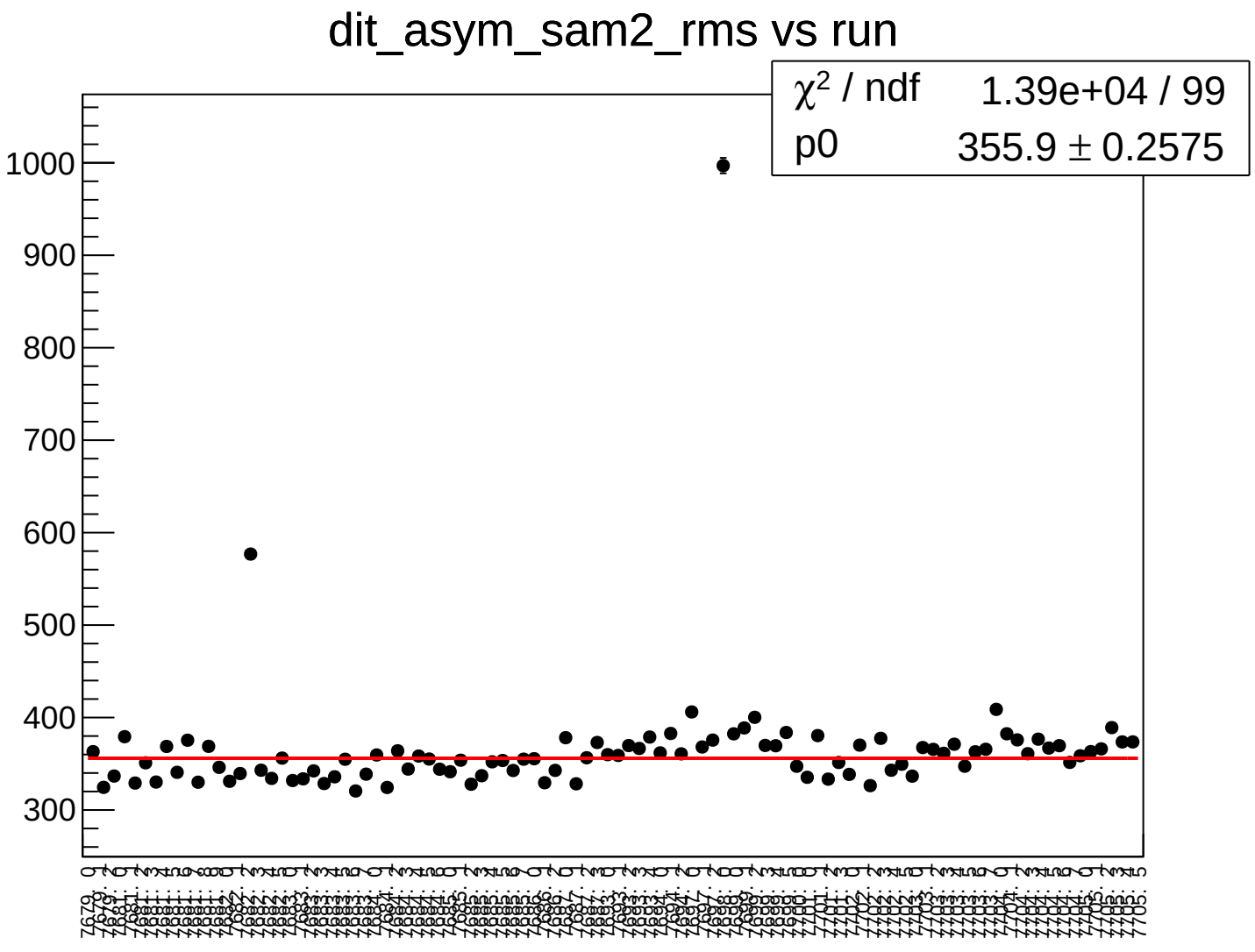
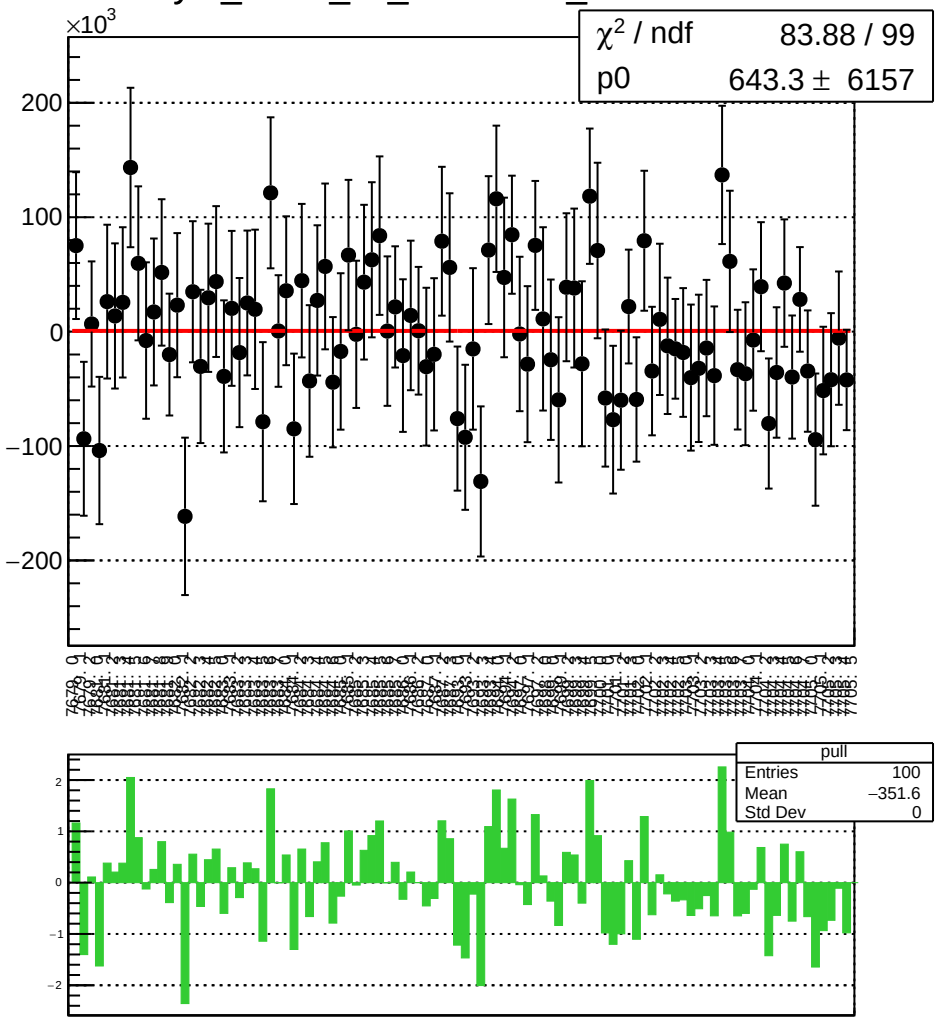
2
4
6
8

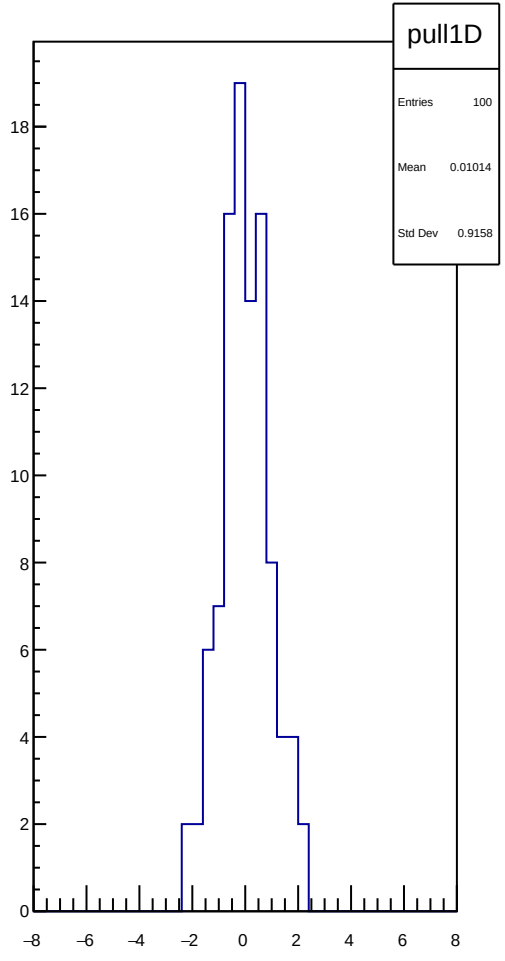

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 1.2e+04 / 99
p0 5949 ± 4.301
7000
6500
6000
5500
5000

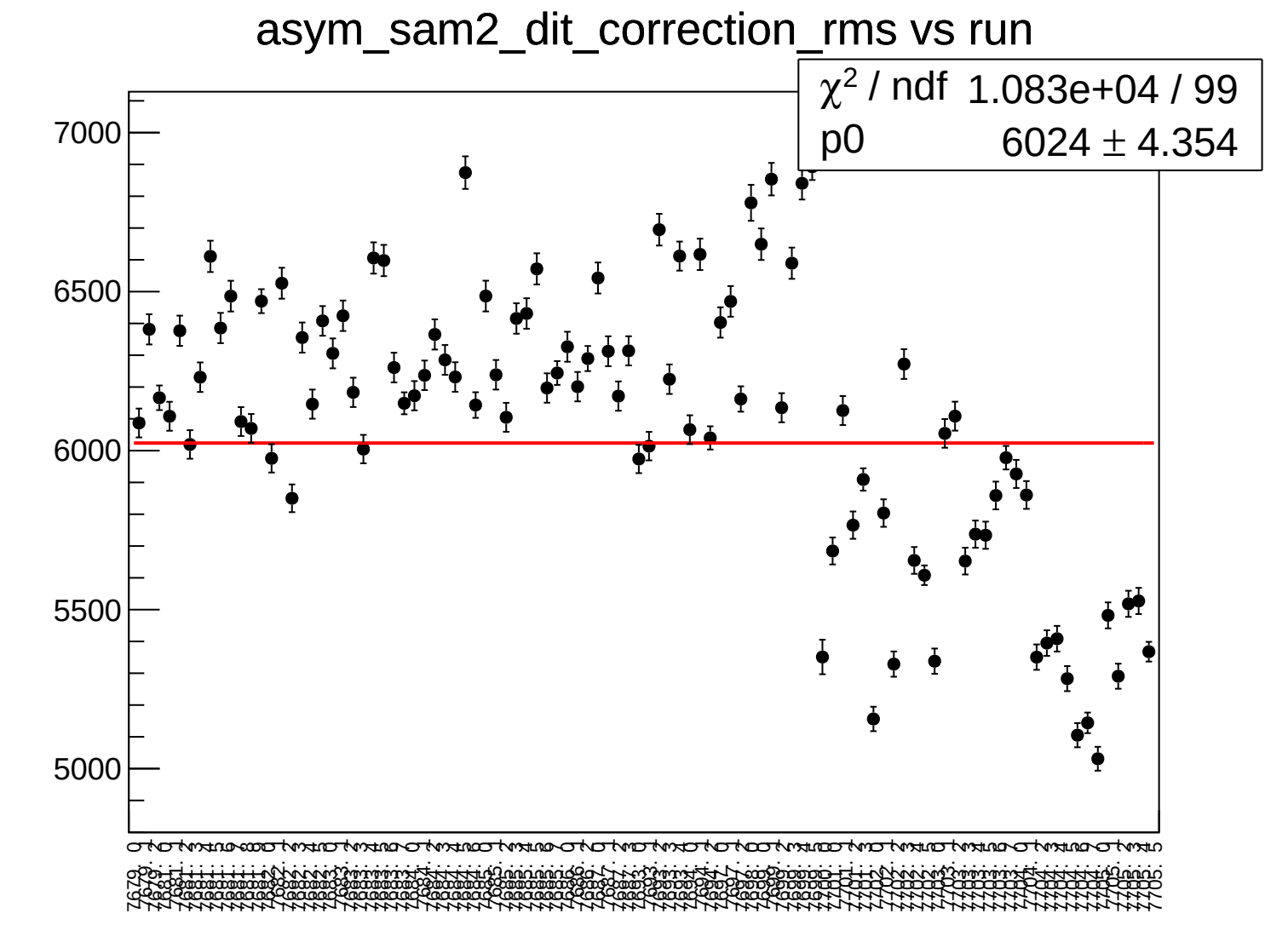

dit_asym_sam2_mean vs run
χ² / ndf 84.56 / 99
p0 −119.5 ± 364.1
10000
5000
0
−5000
−10000
pull
Entries 100
Mean 398.4
Std Dev 0
2
1
0
−1
−2

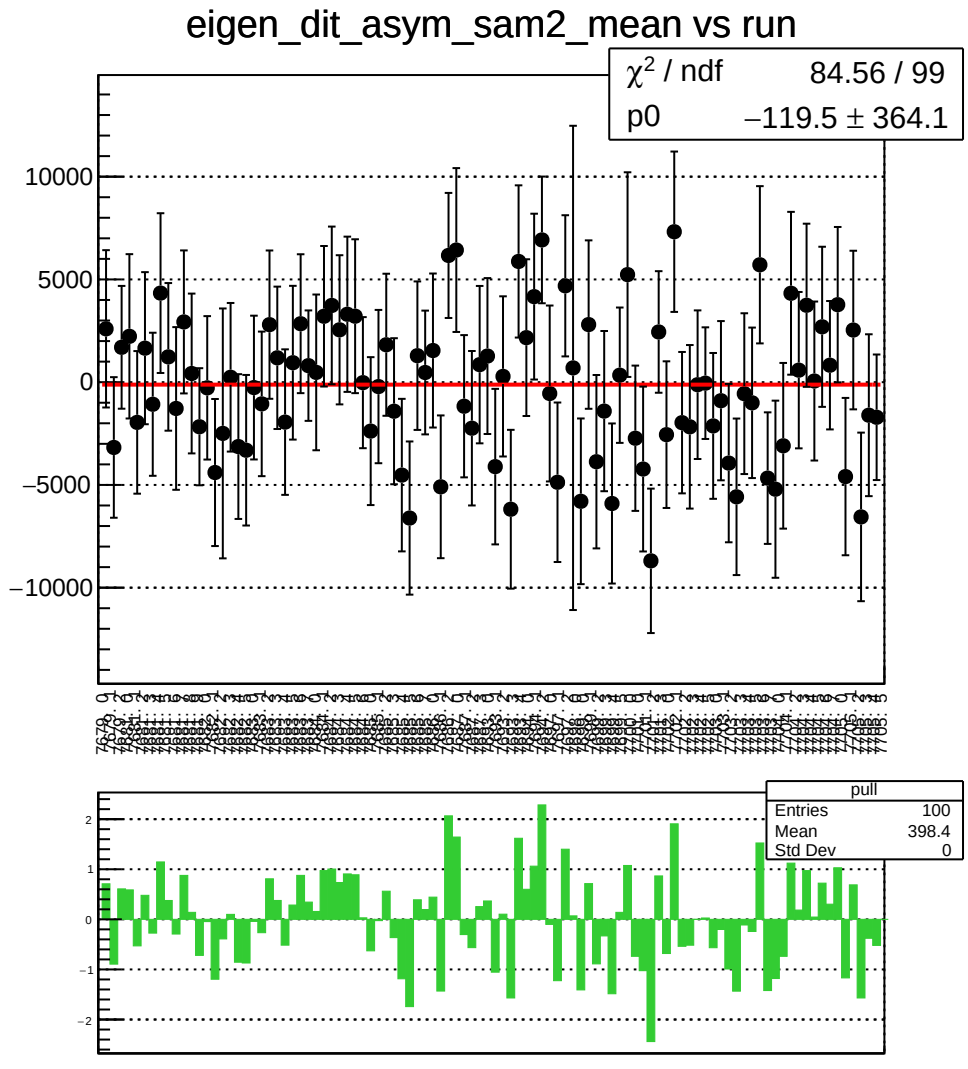

pull1D
Entries 100
Mean −0.008668
Std Dev 0.9195
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

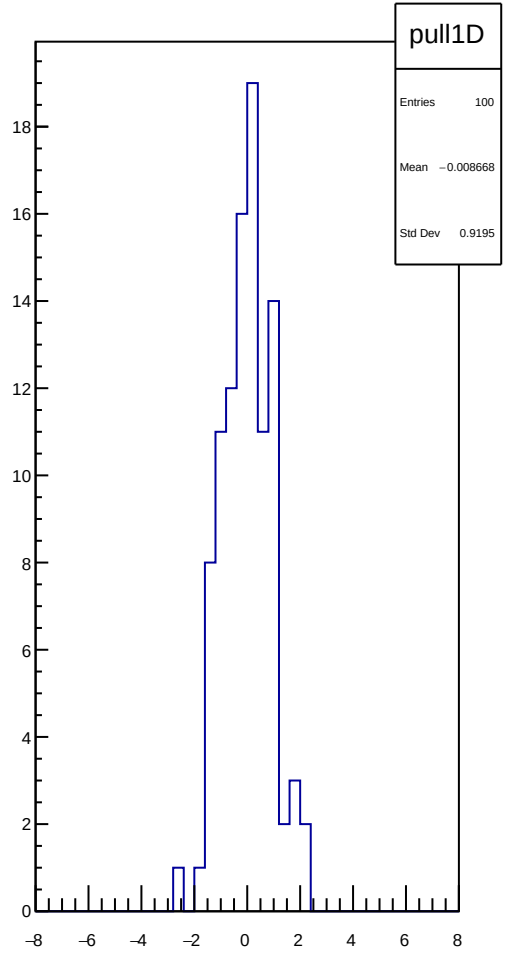

dit_asym_sam2_rms vs run
χ² / ndf 1.39e+04 / 99
p0 355.9 ± 0.2575
1000
900
800
700
600
500
400
300


asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 83.88 / 99
p0 643.3 ± 6157
200
100
0
−100
−200
pull
Entries 100
Mean −351.6
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 100
Mean 0.01014
Std Dev 0.9158
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam2_dit_correction_rms vs run
χ² / ndf 1.083e+04 / 99
p0 6024 ± 4.354
7000
6500
6000
5500
5000


eigen_dit_asym_sam2_mean vs run
χ² / ndf 84.56 / 99
p0 −119.5 ± 364.1
10000
5000
0
−5000
−10000
pull
Entries 100
Mean 398.4
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 100
Mean −0.008668
Std Dev 0.9195
18
16
14
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10
8
6
4
2
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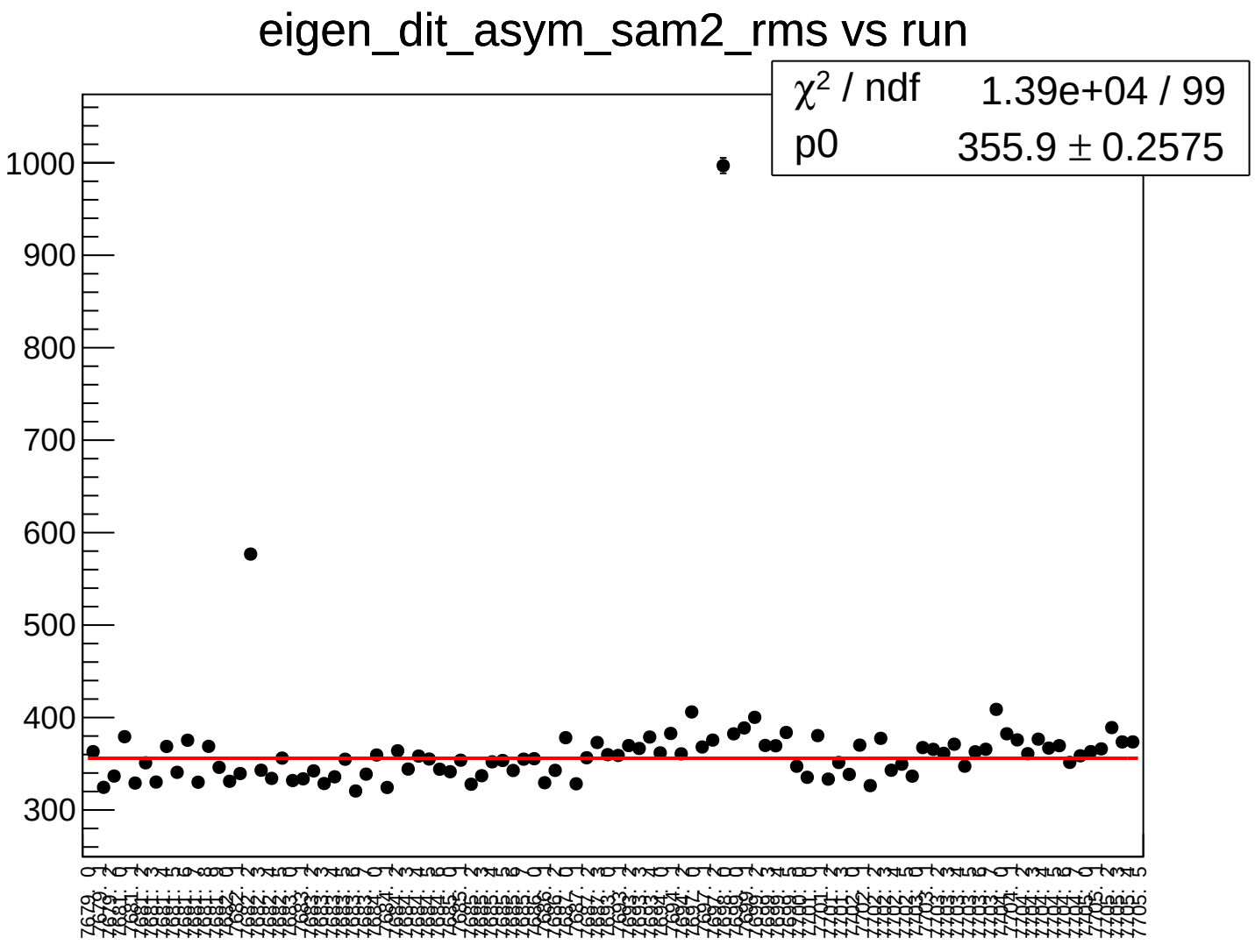
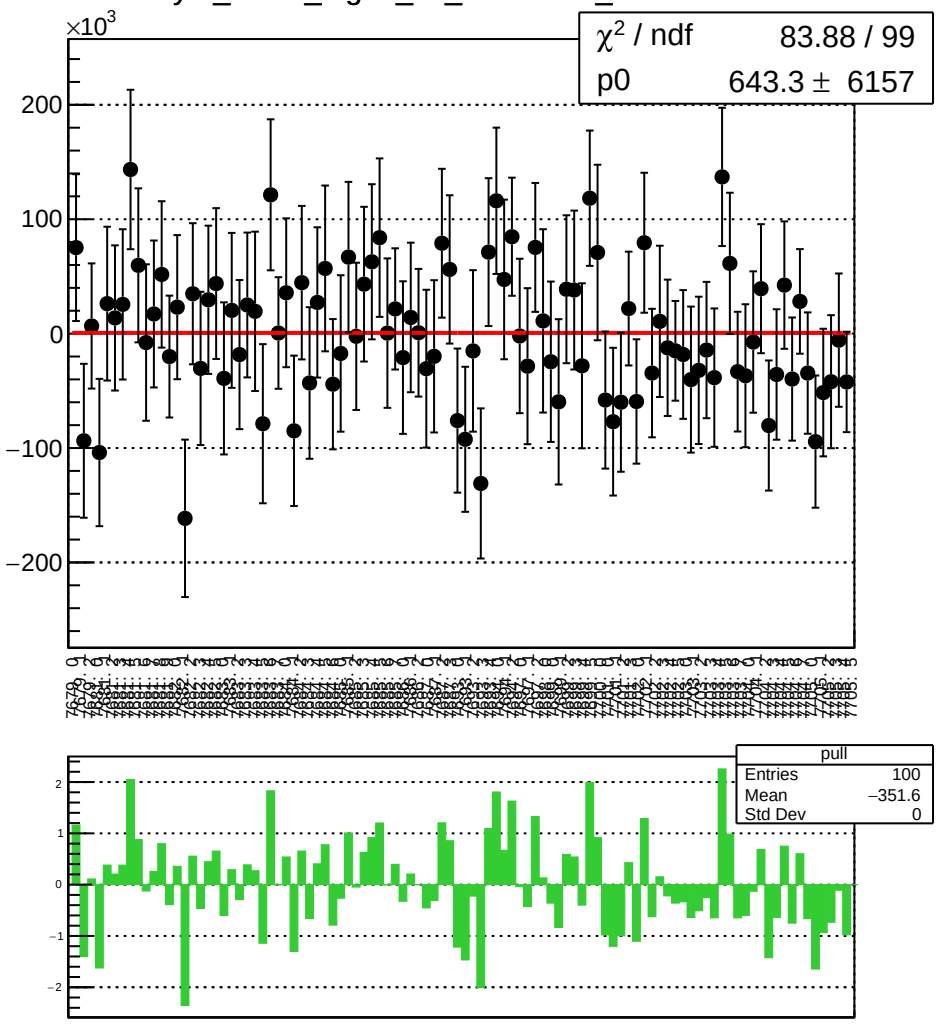
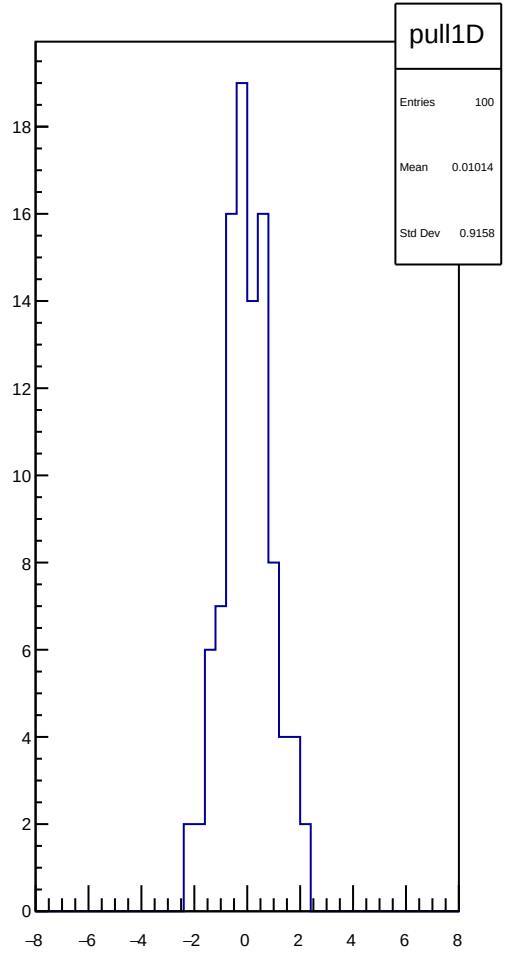
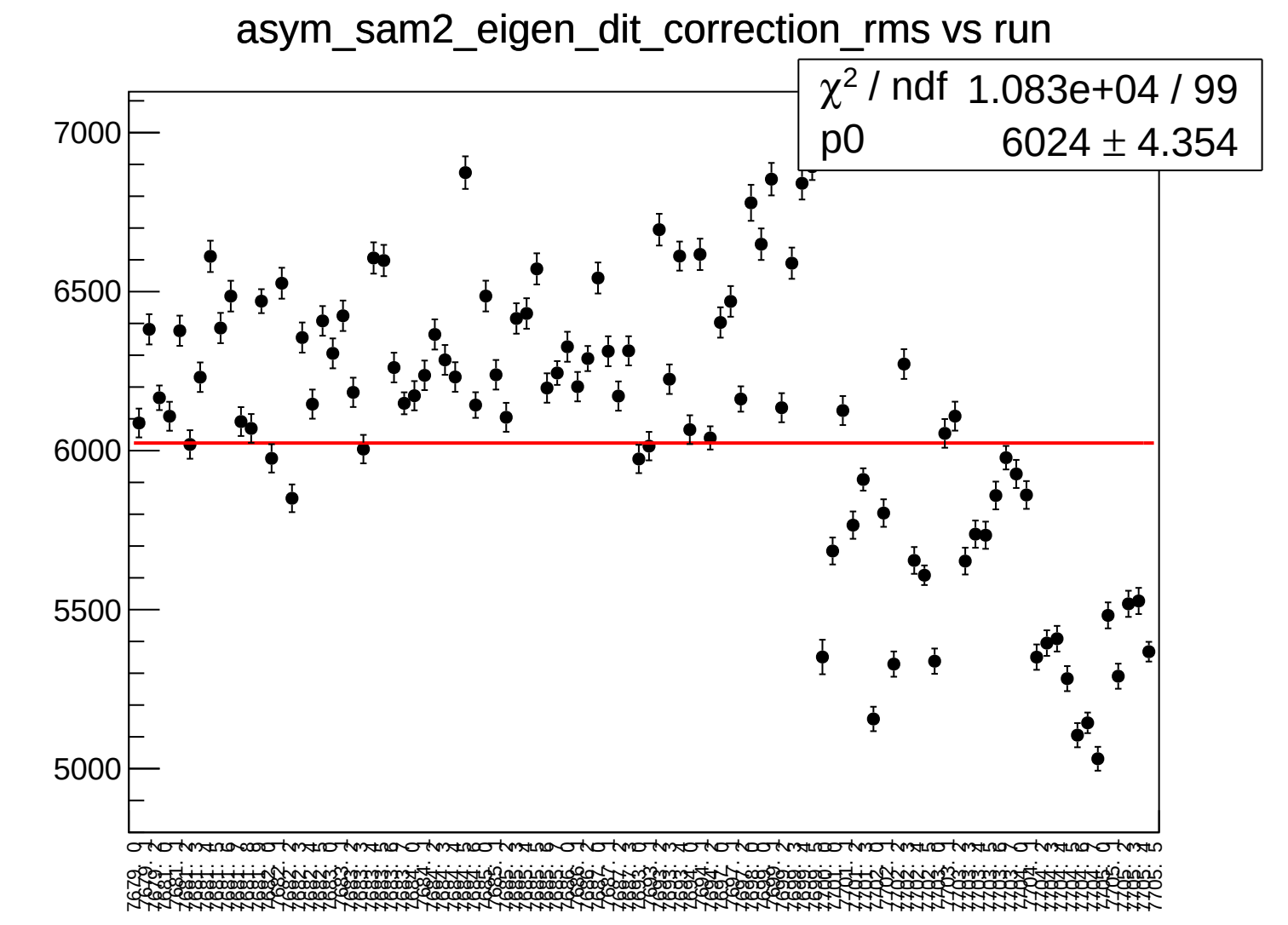
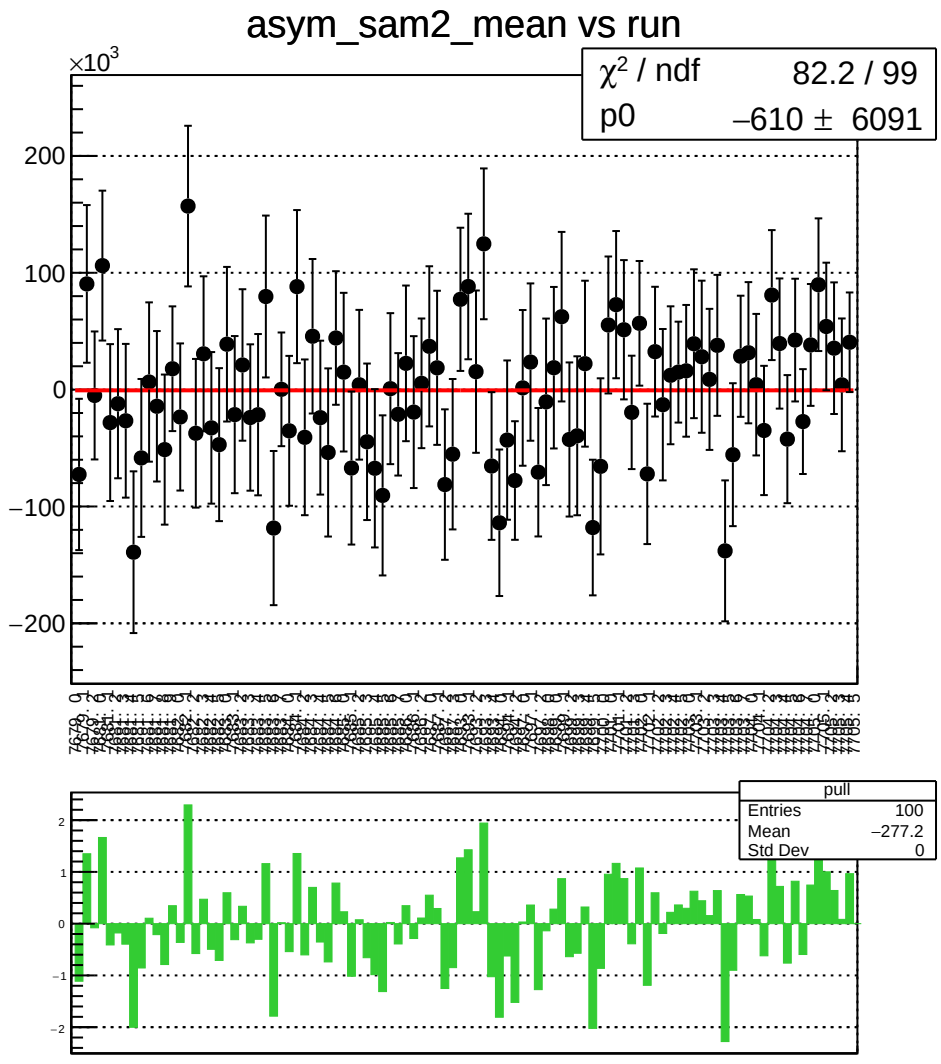
−8
−6
−4
−2
0
2
4
6
8

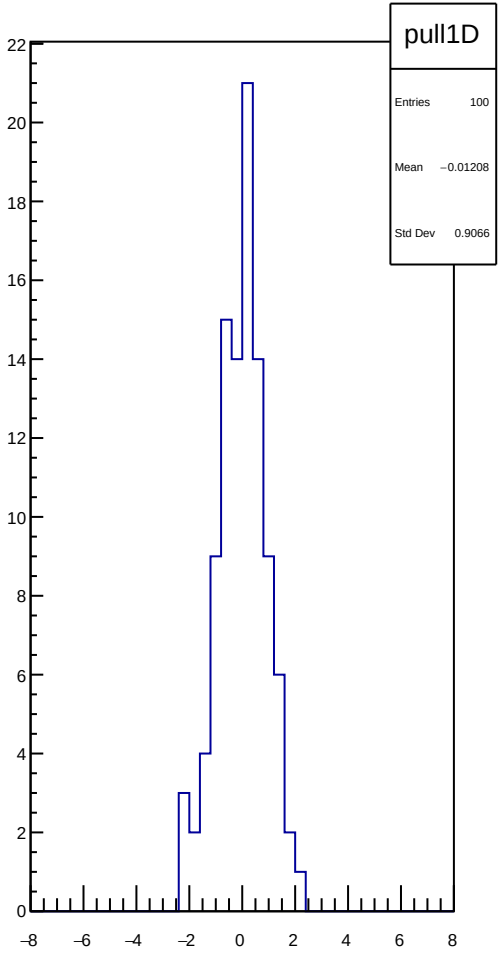

eigen_dit_asym_sam2_rms vs run
χ² / ndf 1.39e+04 / 99
p0 355.9 ± 0.2575
1000
900
800
700
600
500
400
300

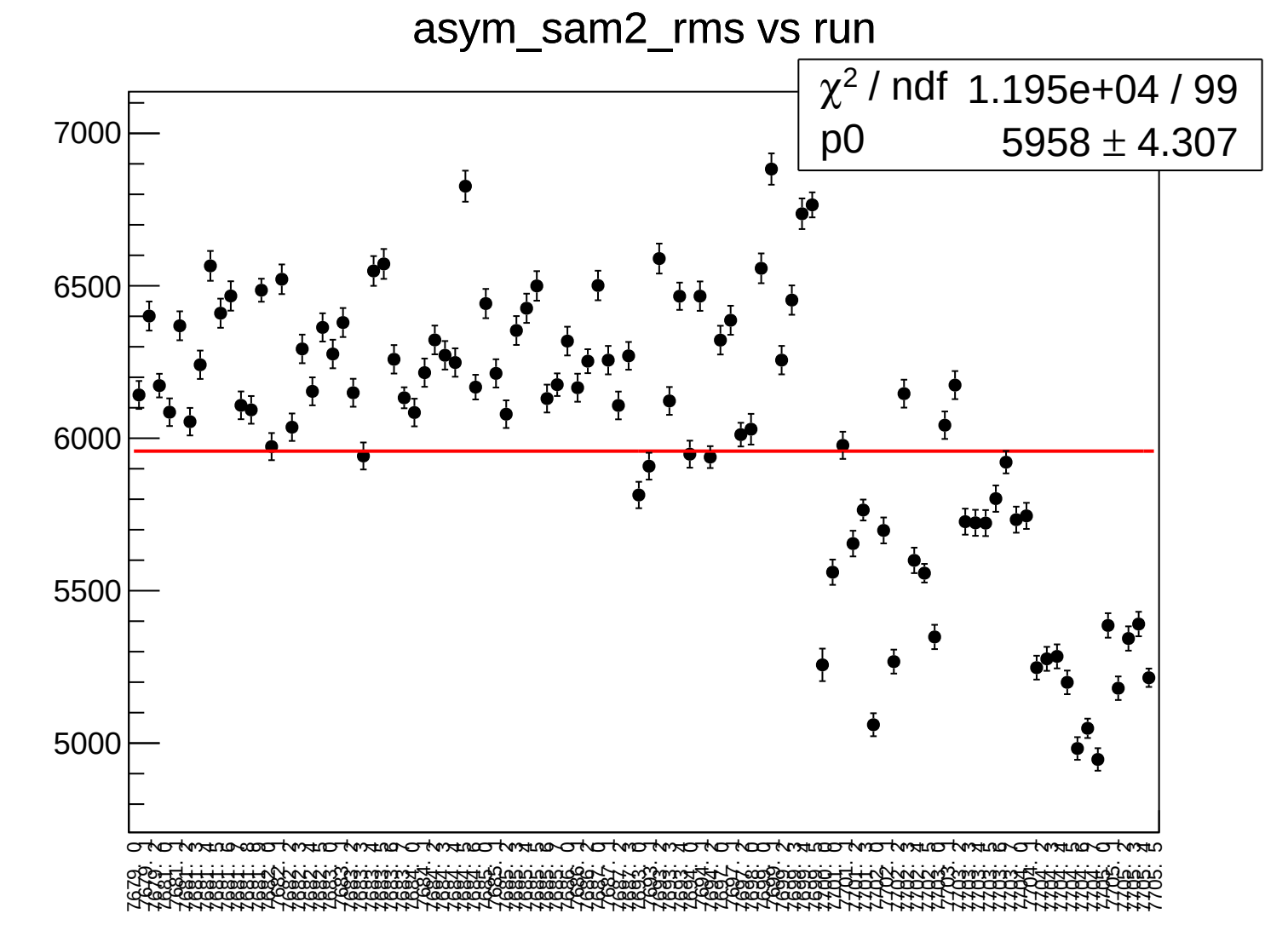

asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 83.88 / 99
p0 643.3 ± 6157
200
100
0
−100
−200
pull
Entries 100
Mean −351.6
Std Dev 0
2
1
0
−1
−2

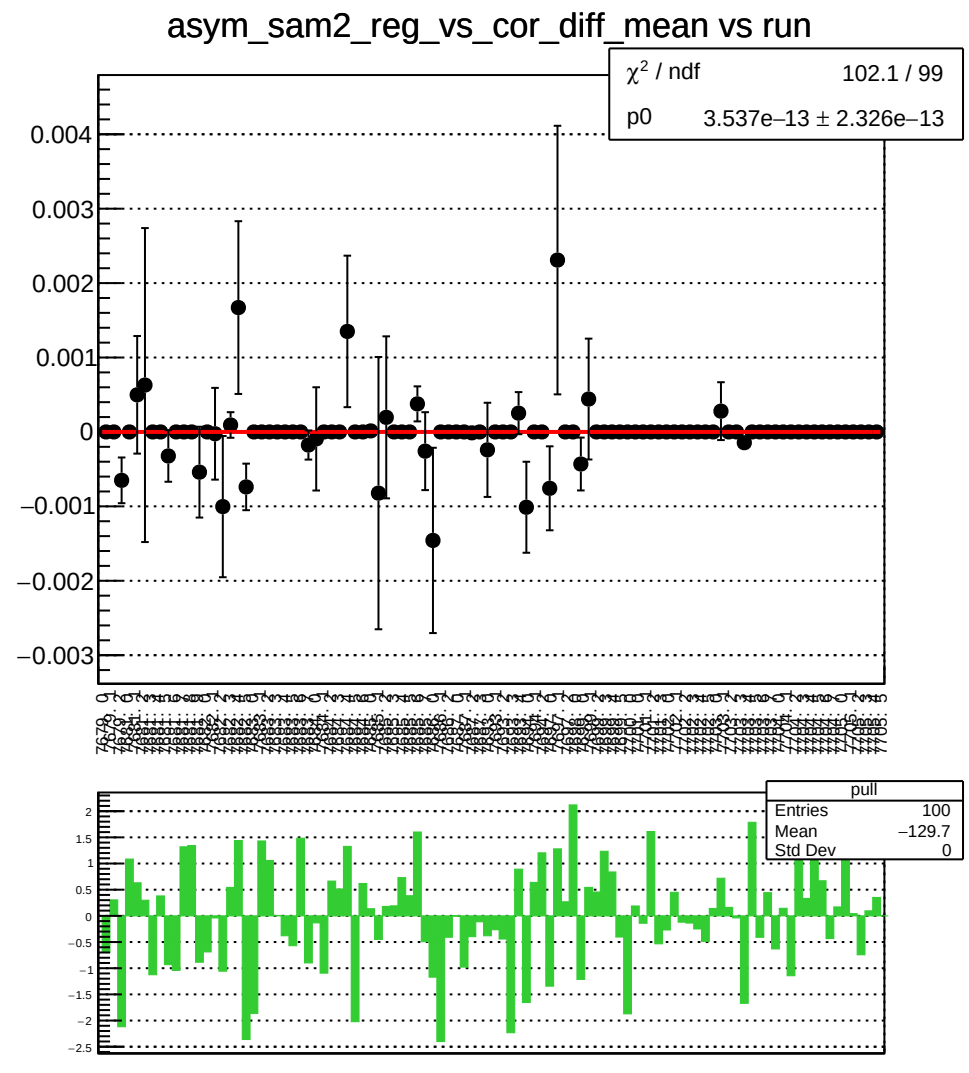

pull1D
Entries 100
Mean 0.01014
Std Dev 0.9158
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

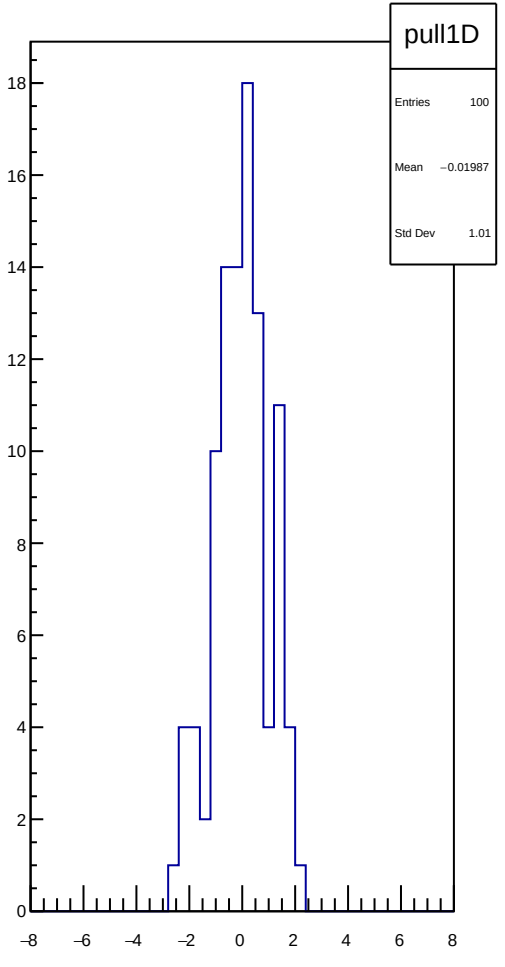

asym_sam2_eigen_dit_correction_rms vs run
χ^2 / ndf 1.083e+04 / 99
p0 6024 ± 4.354
7000
6500
6000
5500
5000

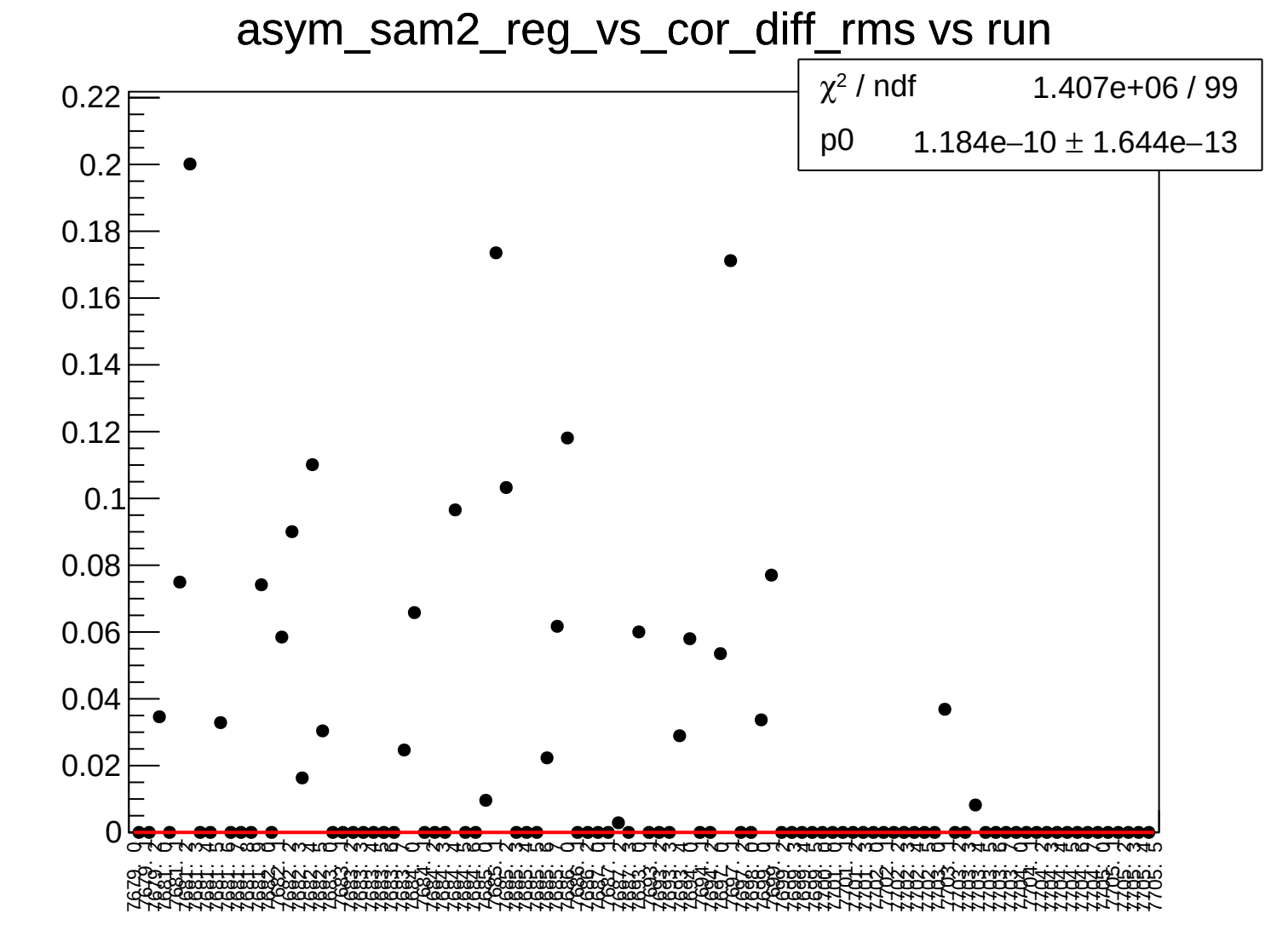

asym_sam2_mean vs run
×10^3
χ^2 / ndf 82.2 / 99
p0 −610 ± 6091
200
100
0
−100
−200
pull
Entries 100
Mean −277.2
Std Dev 0
2
1
0
−1
−2

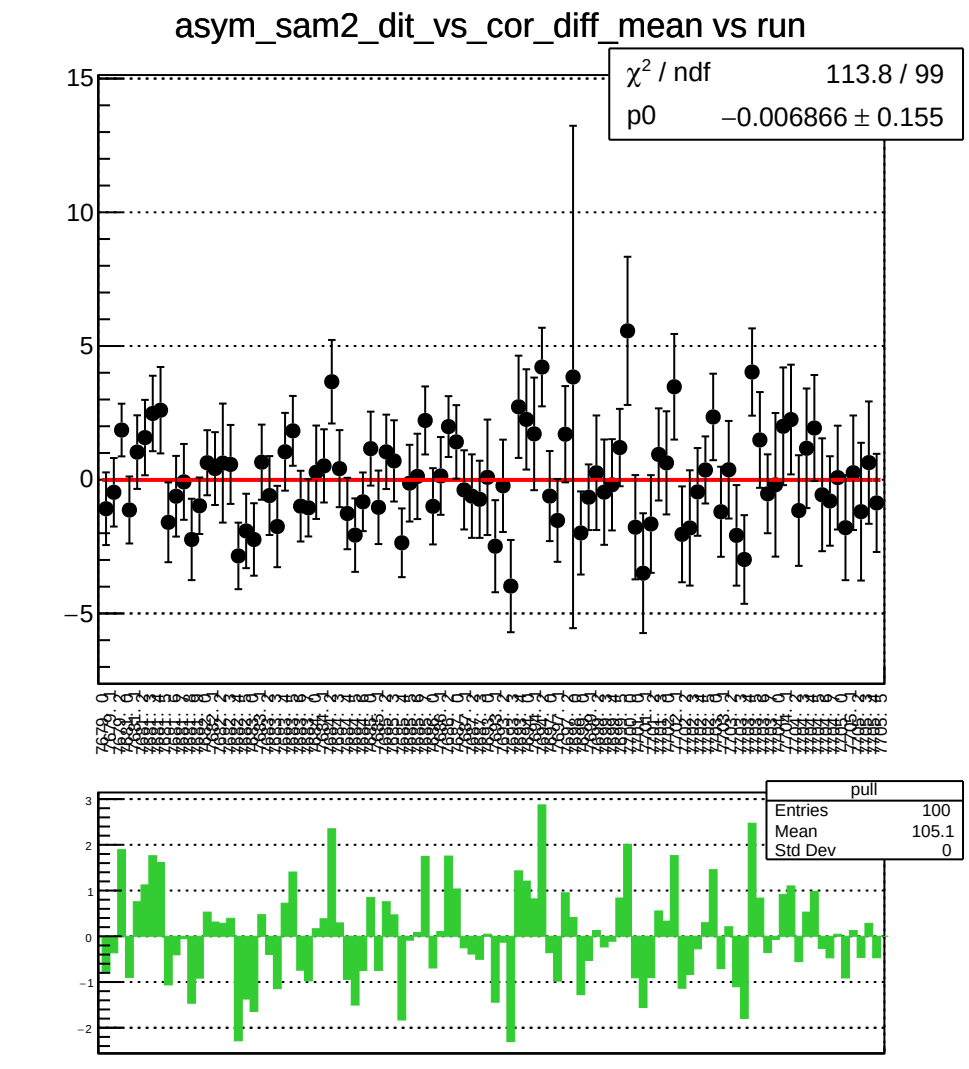

pull1D
Entries 100
Mean −0.01208
Std Dev 0.9066
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

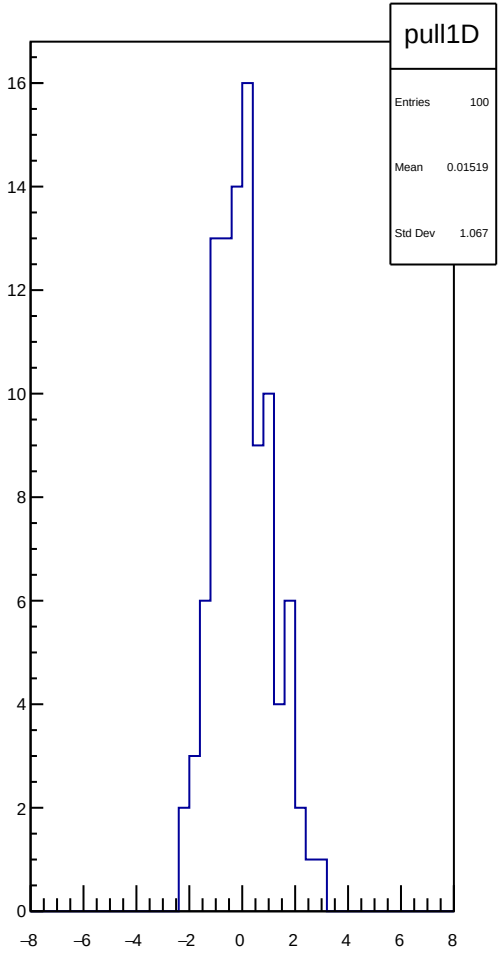

asym_sam2_rms vs run
χ^2 / ndf 1.195e+04 / 99
p0 5958 ± 4.307
7000
6500
6000
5500
5000

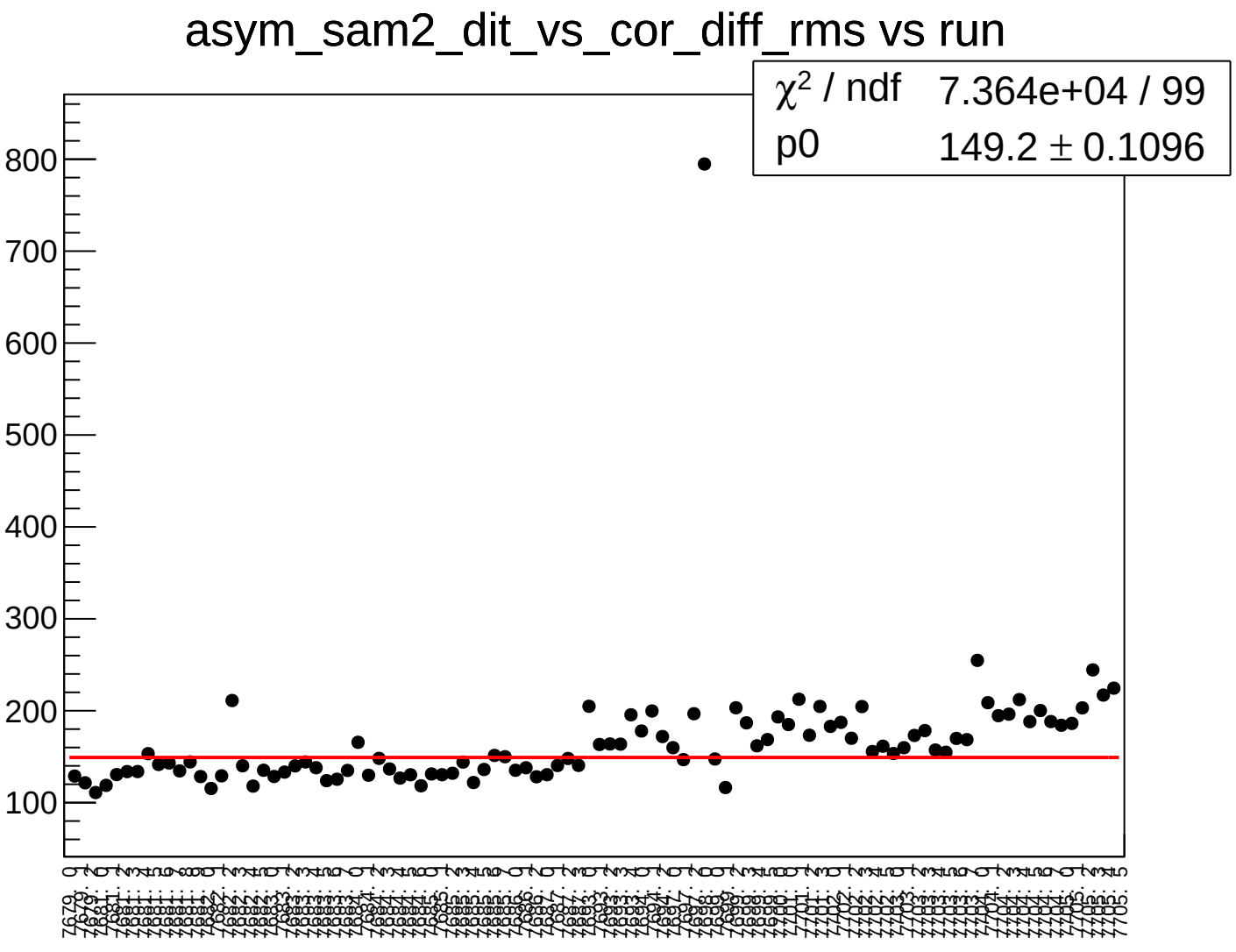

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 102.1 / 99
p0 3.537e−13 ± 2.326e−13
0.004
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 100
Mean −129.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

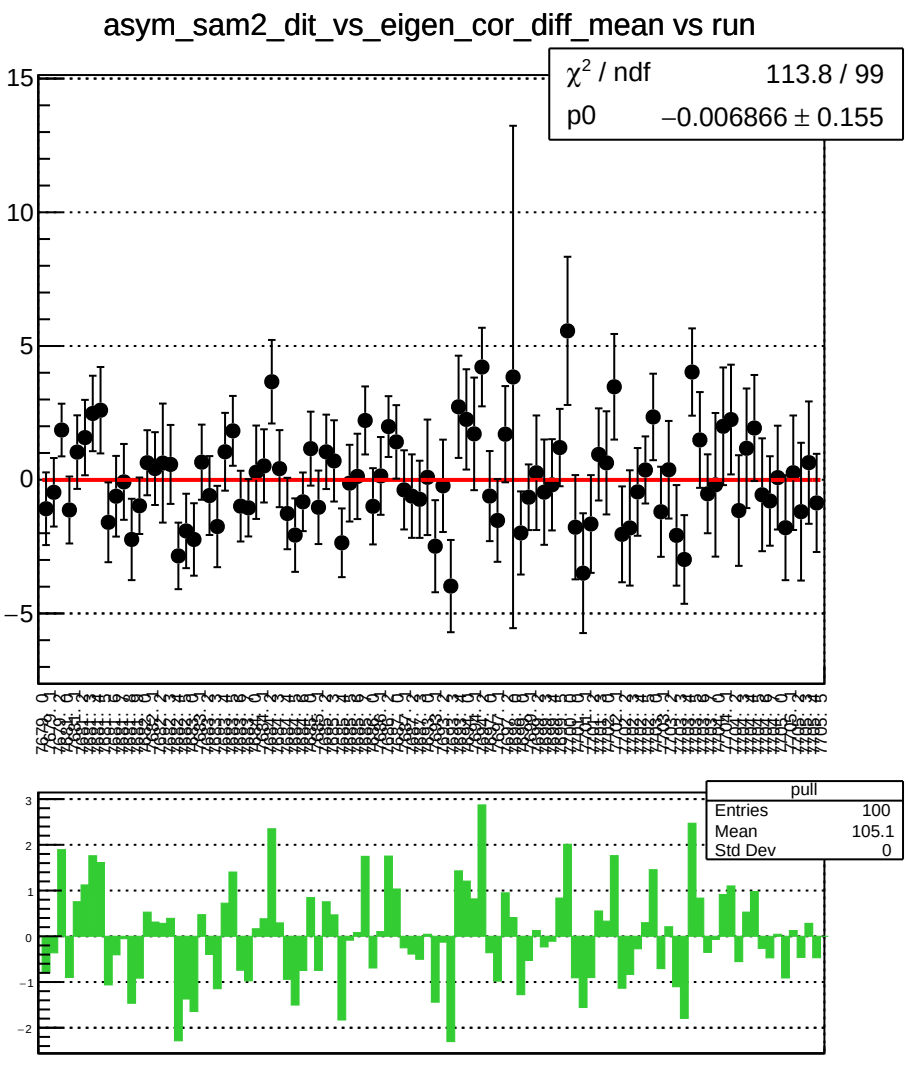

pull1D
Entries 100
Mean −0.01987
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

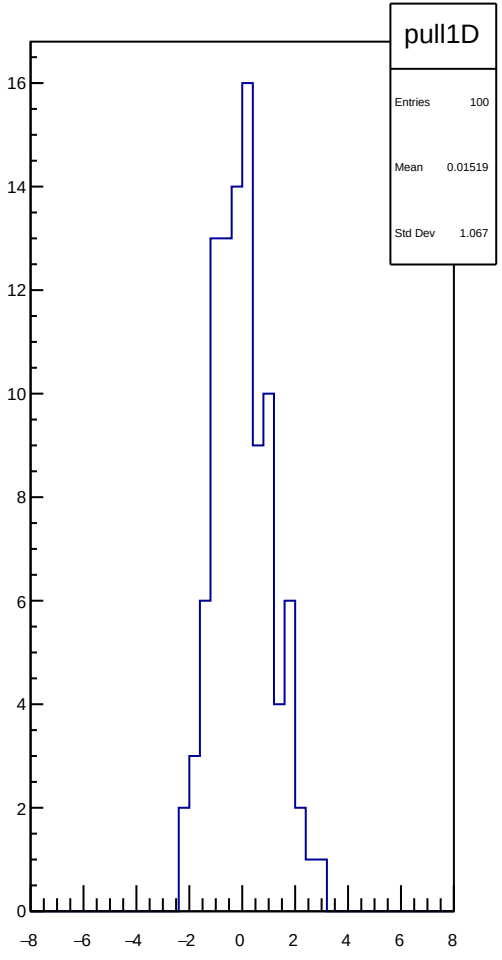

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.407e+06 / 99
p0 1.184e−10 ± 1.644e−13
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

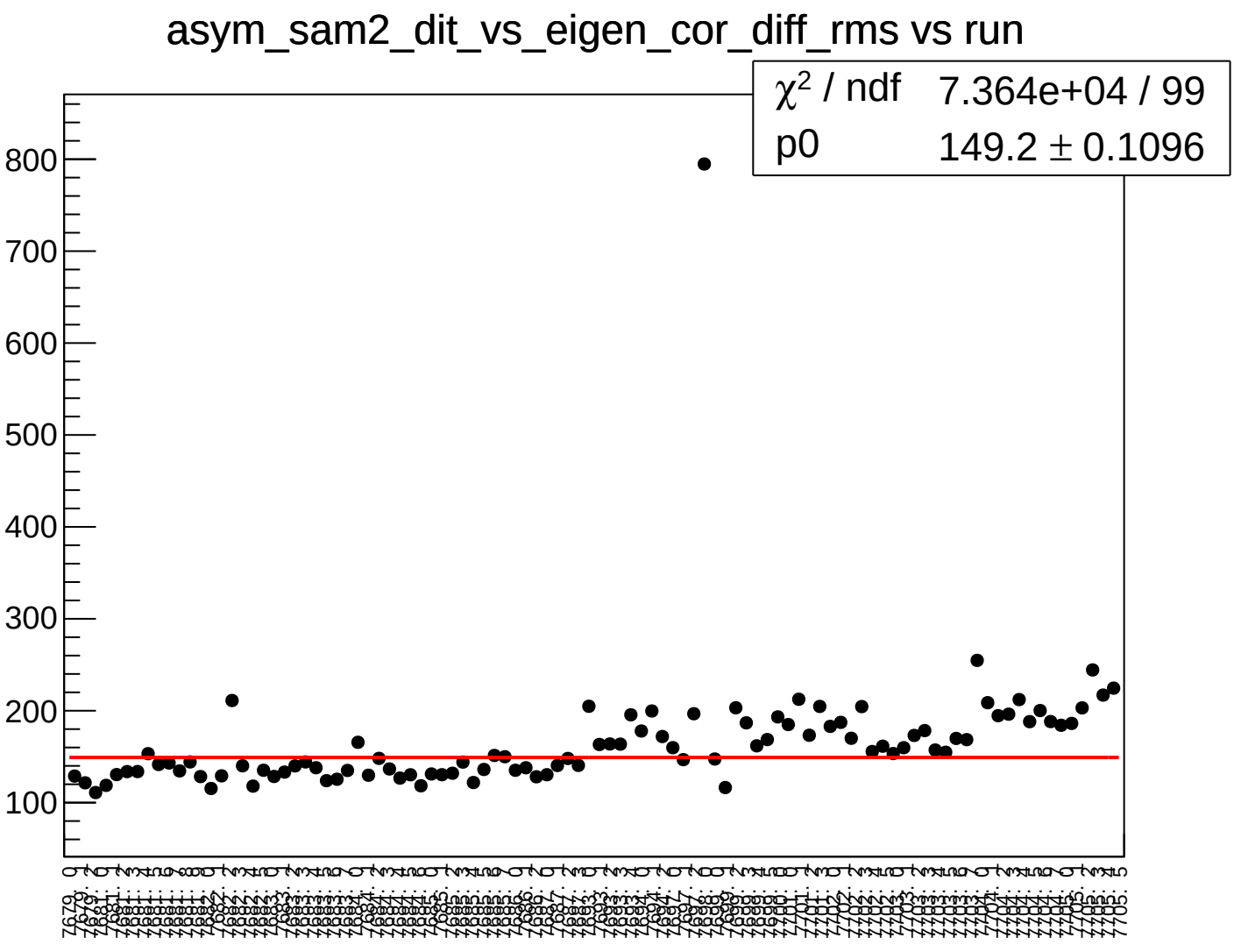

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 113.8 / 99
p0 −0.006866 ± 0.155
pull
Entries 100
Mean 105.1
Std Dev 0

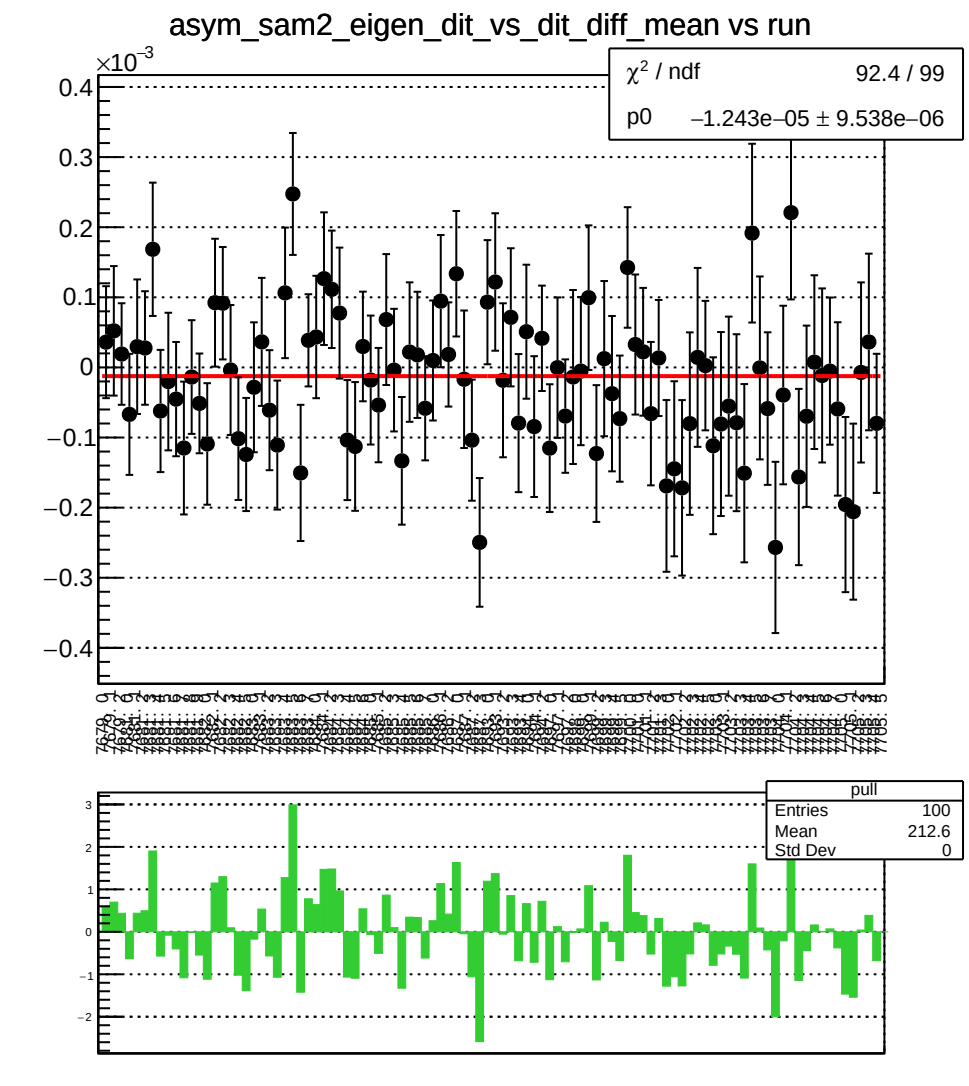

pull1D
Entries 100
Mean 0.01519
Std Dev 1.067

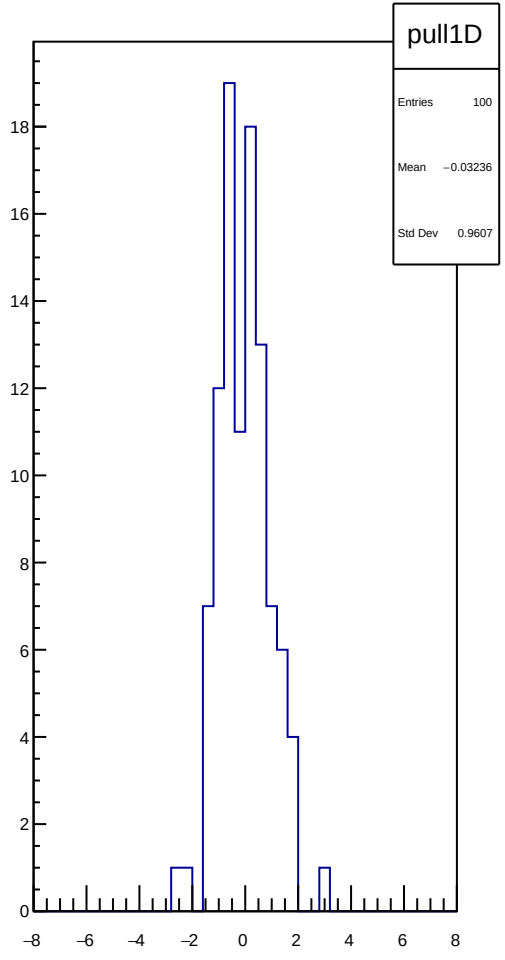

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 7.364e+04 / 99
p0 149.2 ± 0.1096
800
700
600
500
400
300
200
100

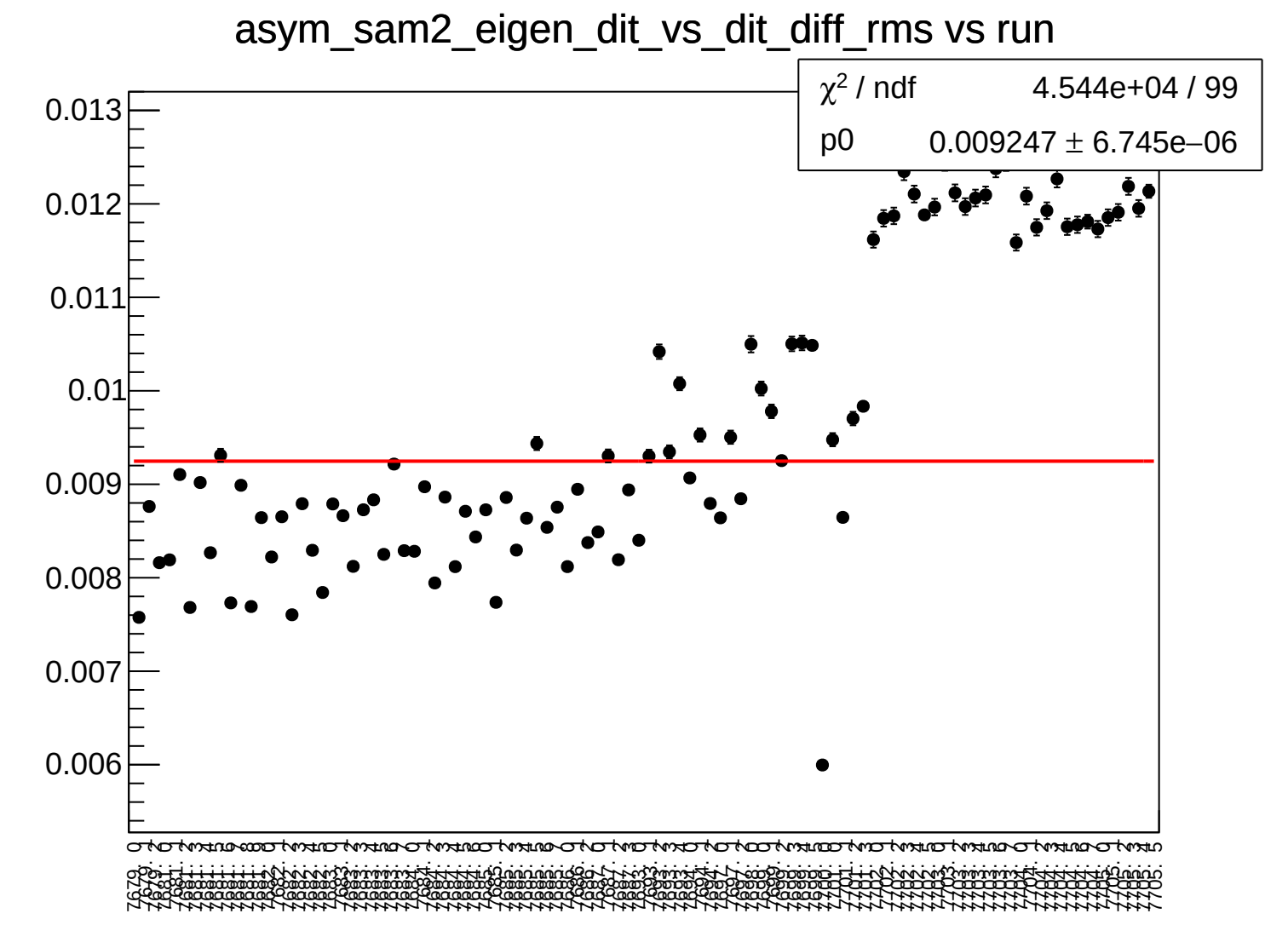

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.8 / 99
p0 −0.006866 ± 0.155
15
10
5
0
−5
pull
Entries 100
Mean 105.1
Std Dev 0
3
2
1
0
−1
−2

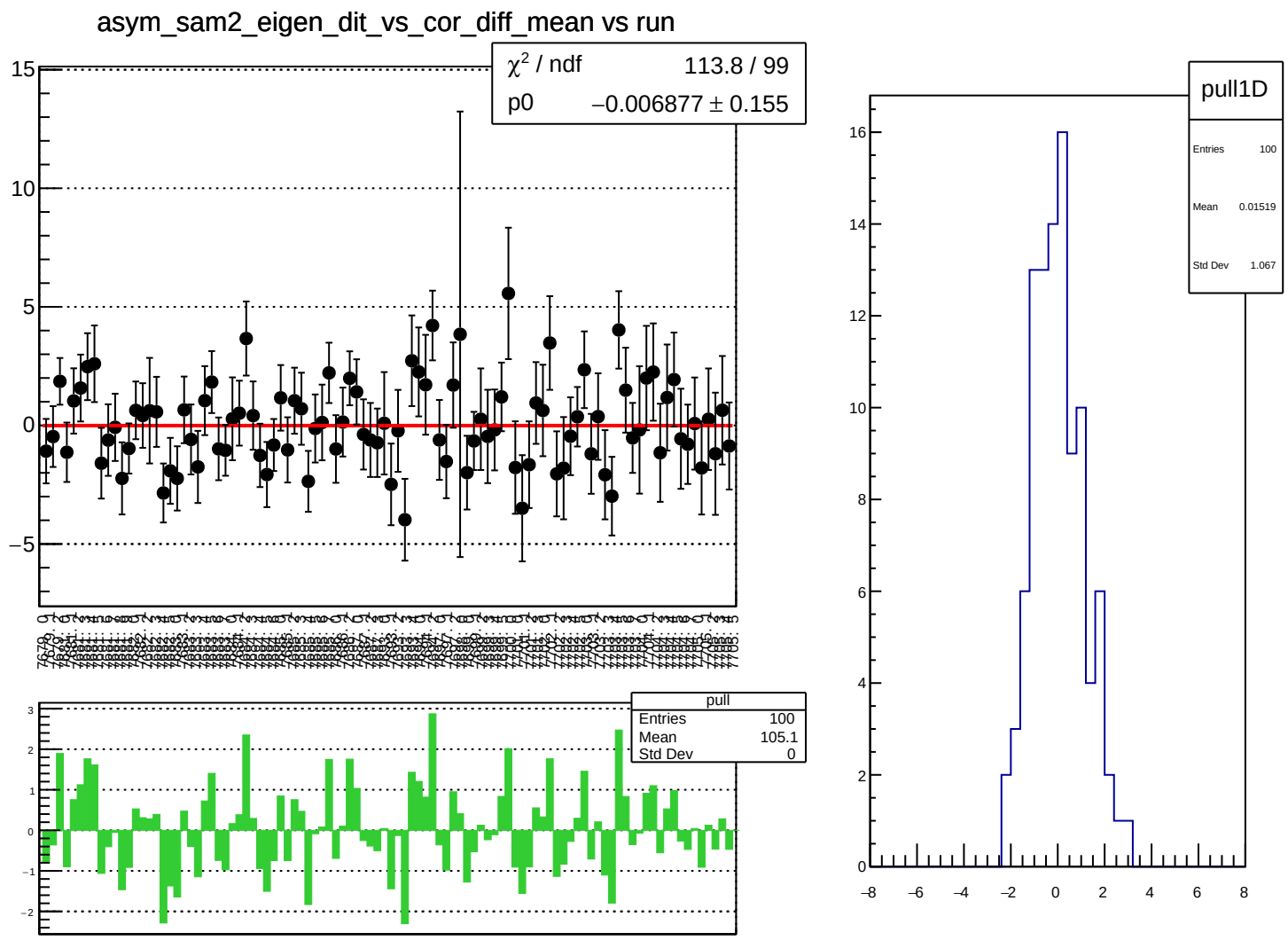

pull1D
Entries 100
Mean 0.01519
Std Dev 1.067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

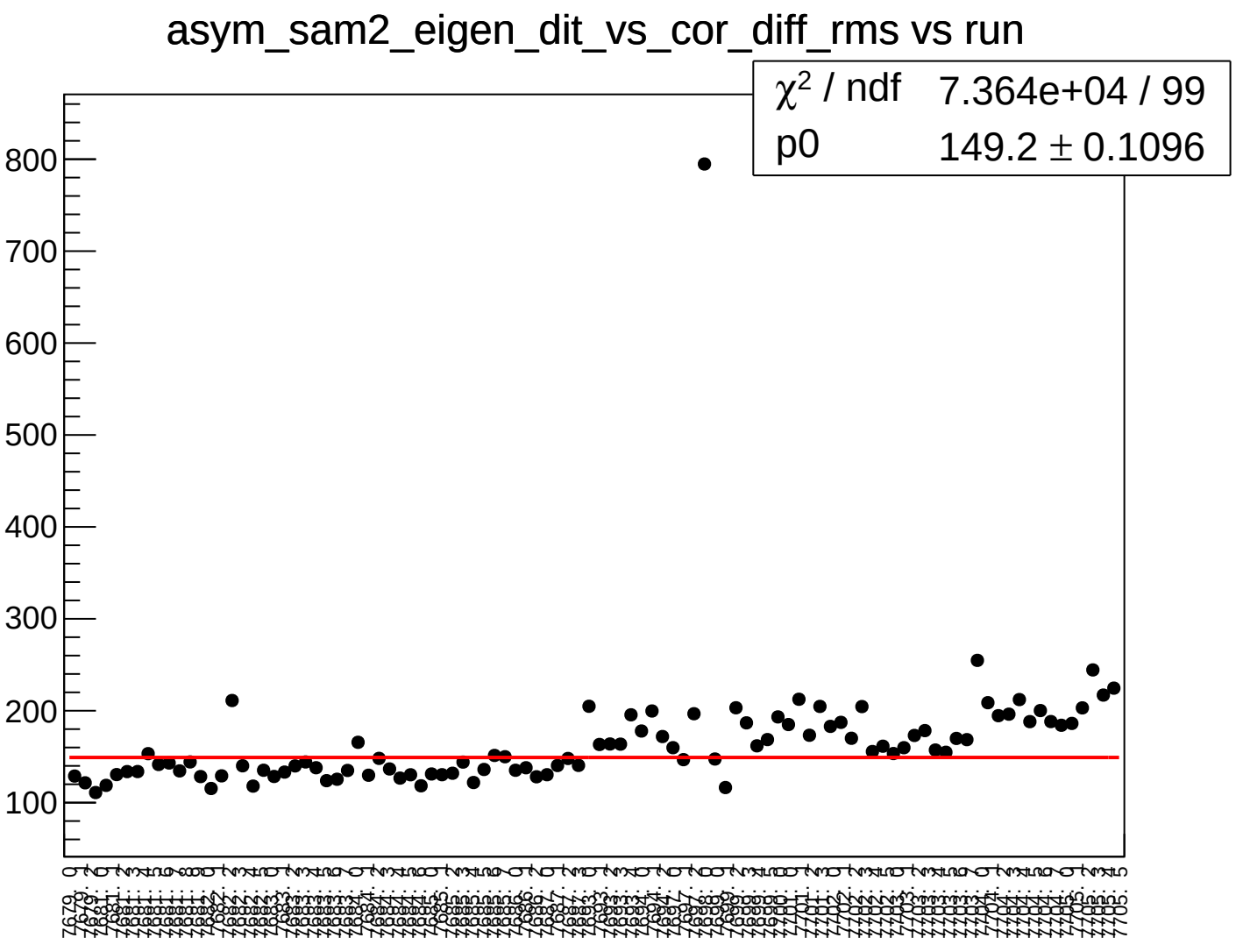

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.364e+04 / 99
p0 149.2 ± 0.1096
800
700
600
500
400
300
200
100

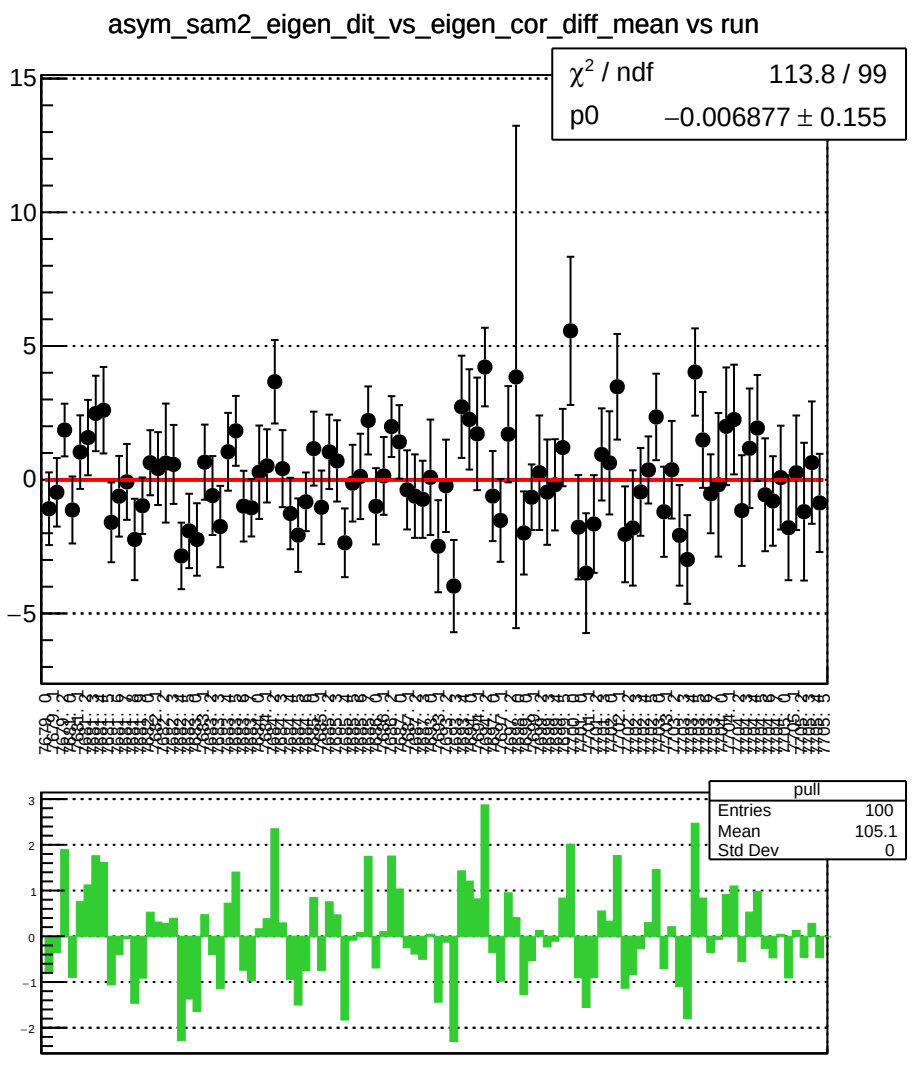

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.4 / 99
p0 −1.243e−05 ± 9.538e−06
pull
Entries 100
Mean 212.6
Std Dev 0

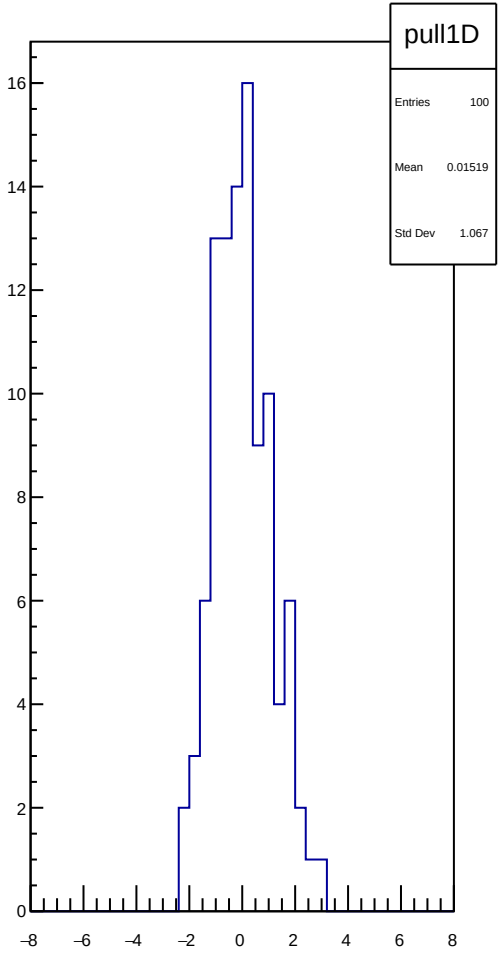

pull1D
Entries 100
Mean −0.03236
Std Dev 0.9607

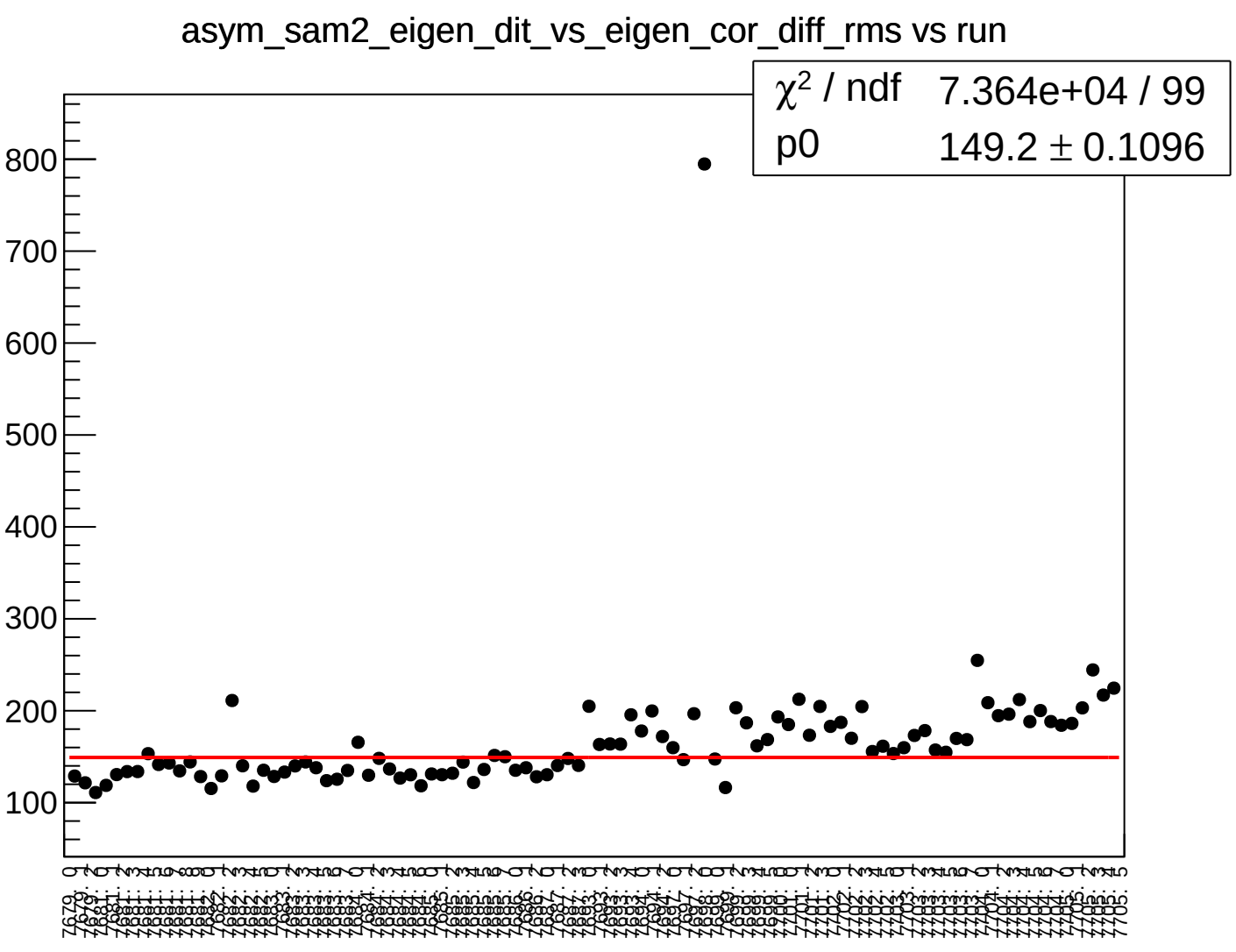

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.544e+04 / 99
p0 0.009247 ± 6.745e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

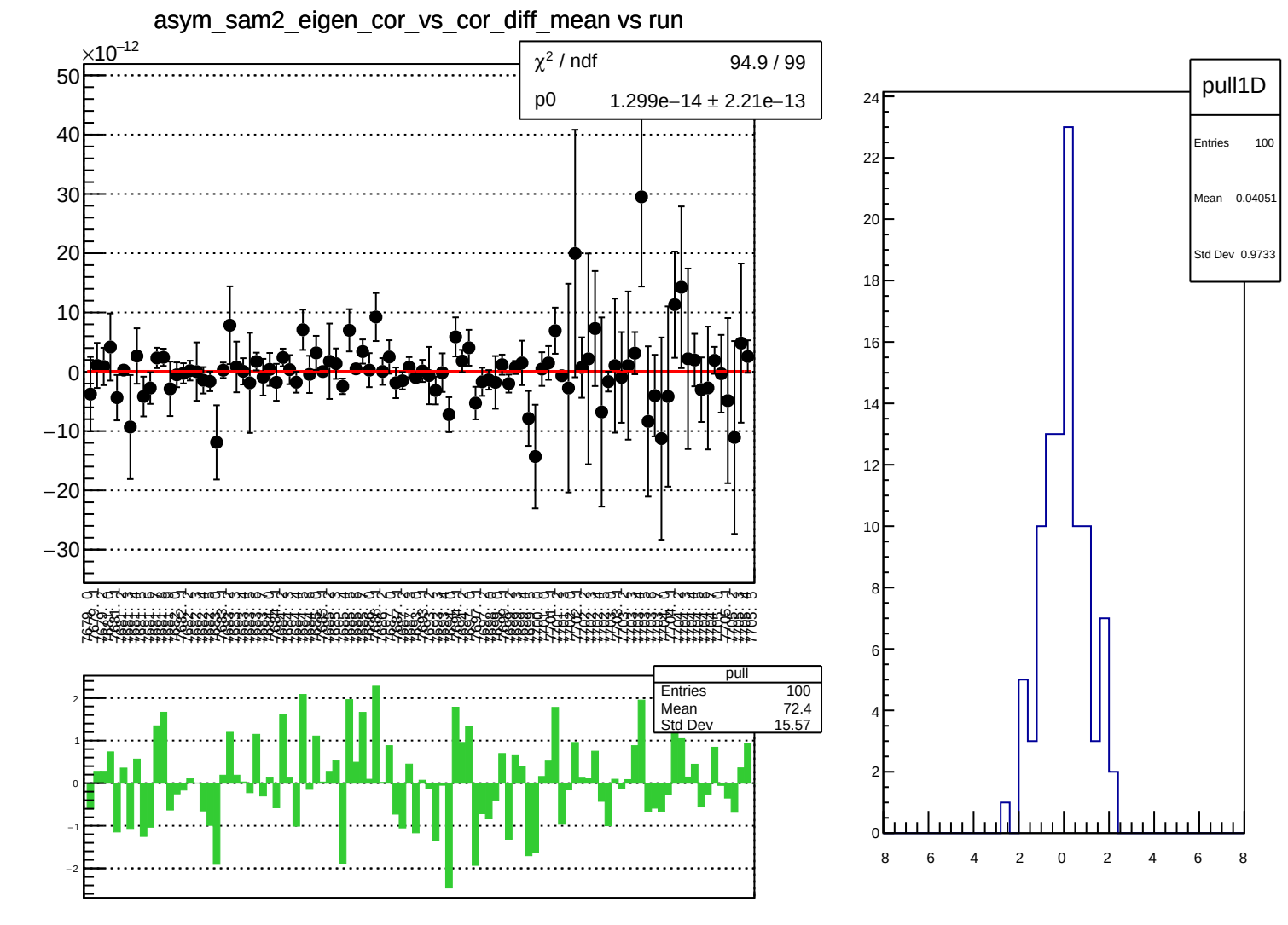

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 113.8 / 99
p0 −0.006877 ± 0.155
pull
Entries 100
Mean 105.1
Std Dev 0
pull1D
Entries 100
Mean 0.01519
Std Dev 1.067

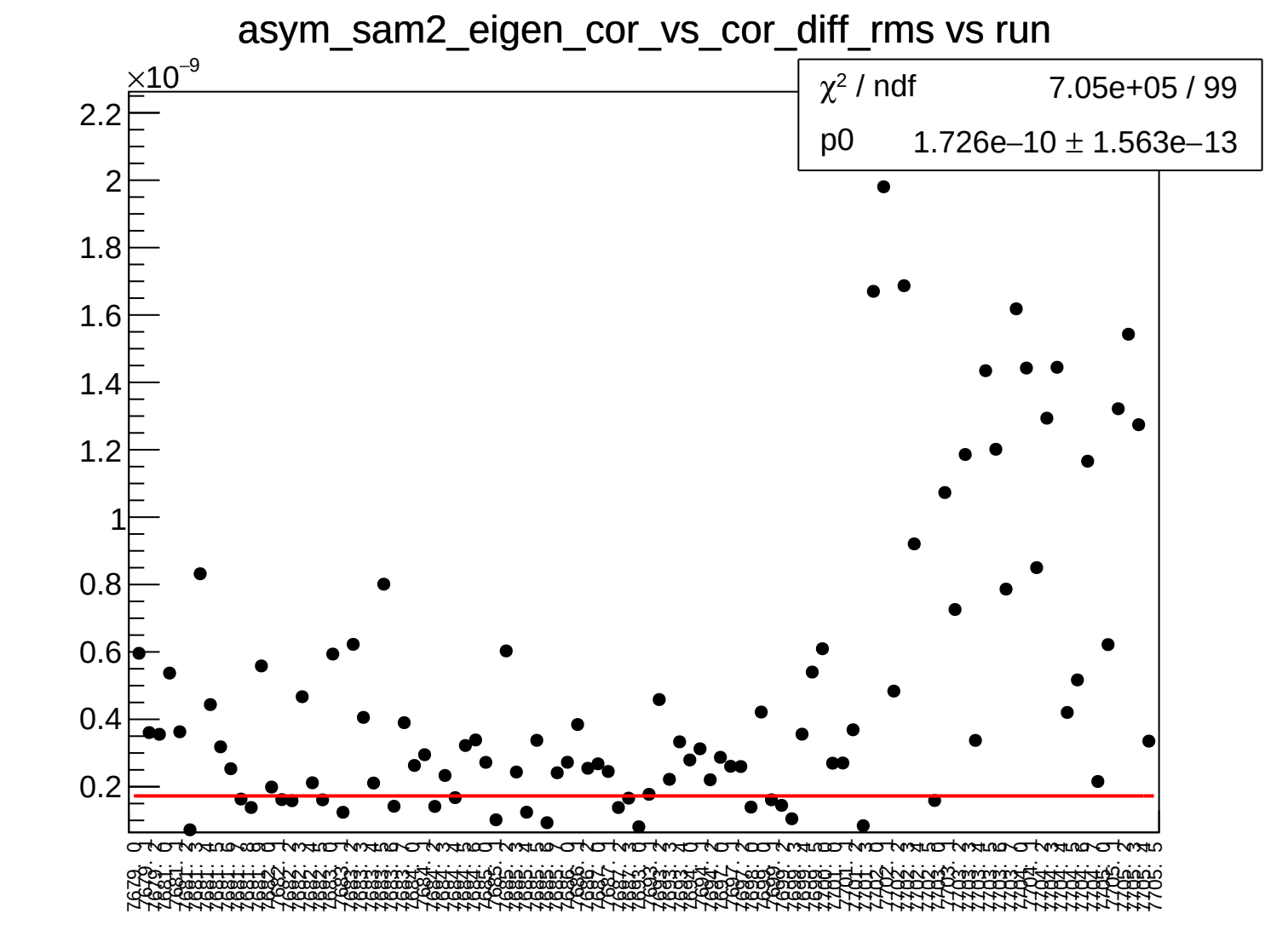

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.364e+04 / 99
p0 149.2 ± 0.1096
800
700
600
500
400
300
200
100

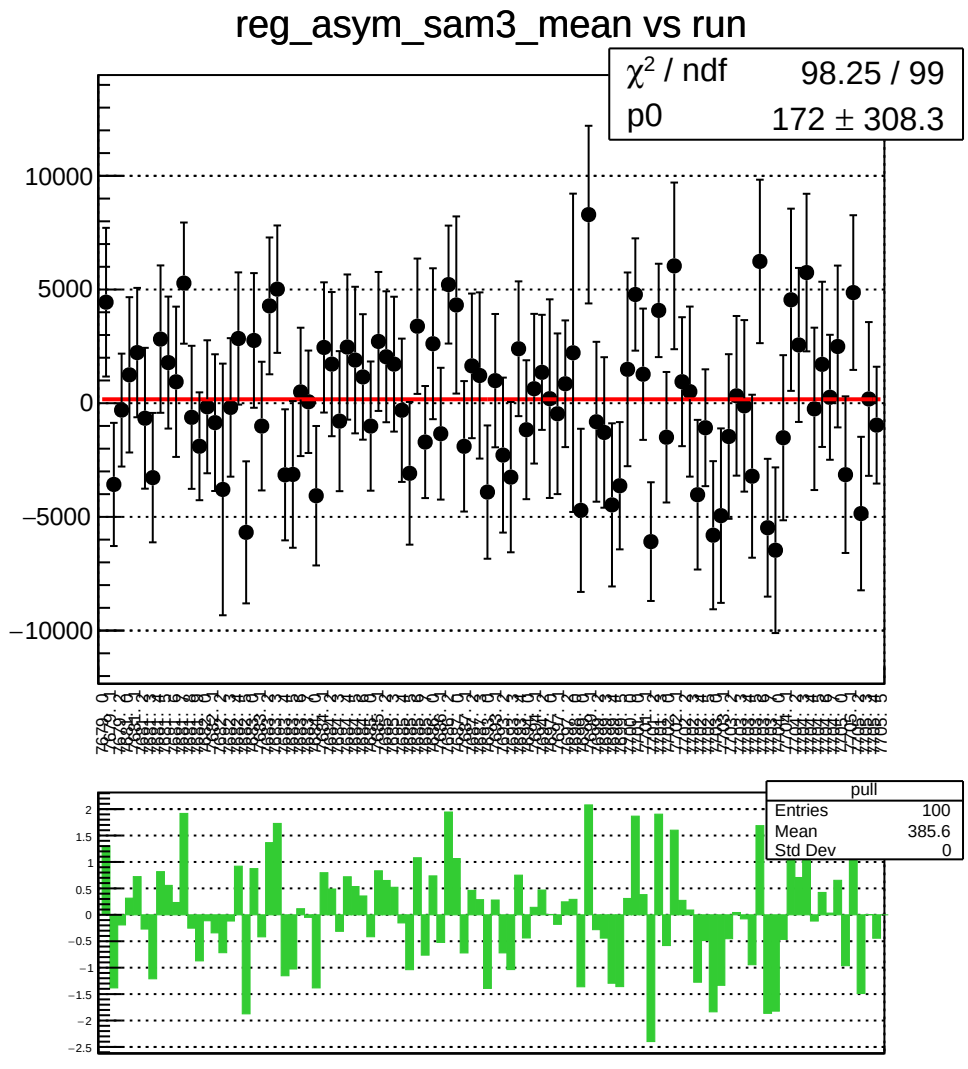

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.8 / 99
p0 −0.006877 ± 0.155
pull
Entries 100
Mean 105.1
Std Dev 0

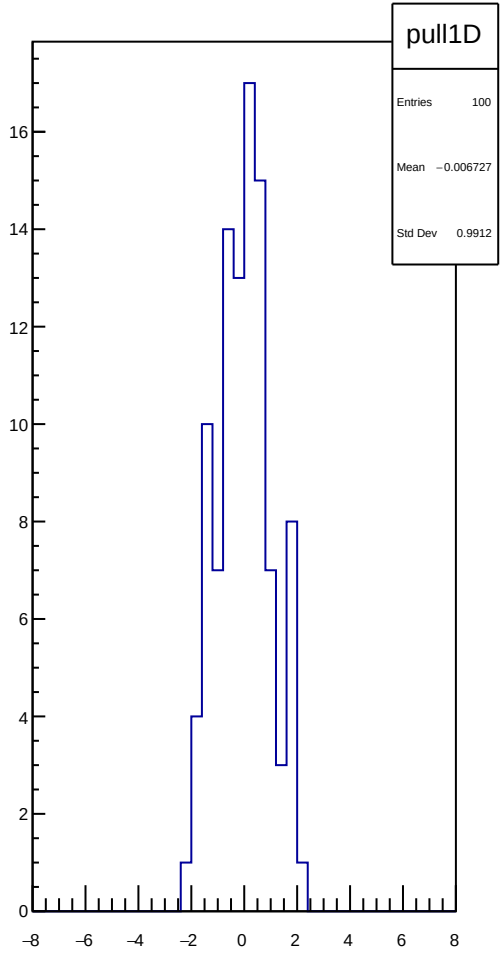

pull1D
Entries 100
Mean 0.01519
Std Dev 1.067

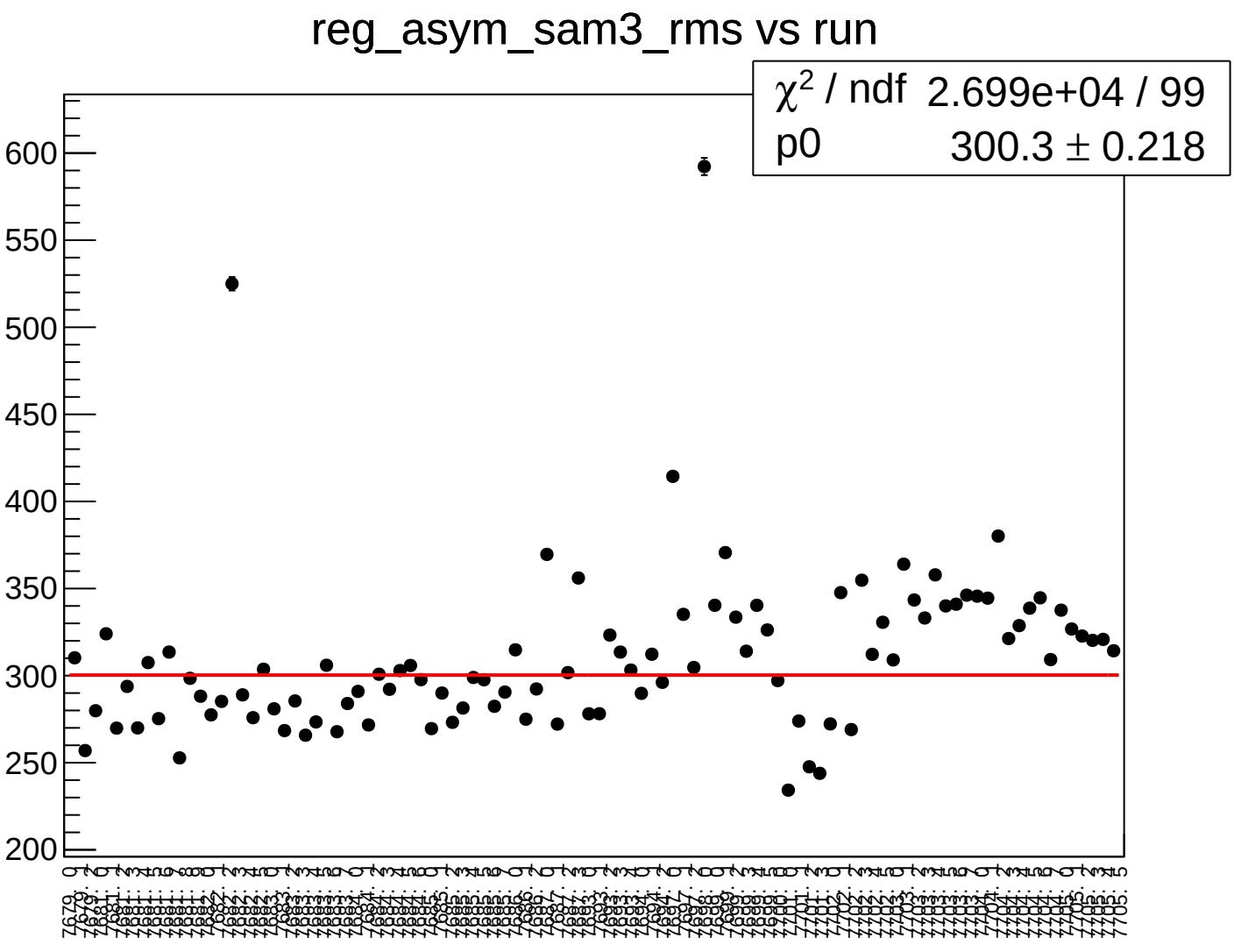

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.364e+04 / 99
p0 149.2 ± 0.1096
800
700
600
500
400
300
200
100

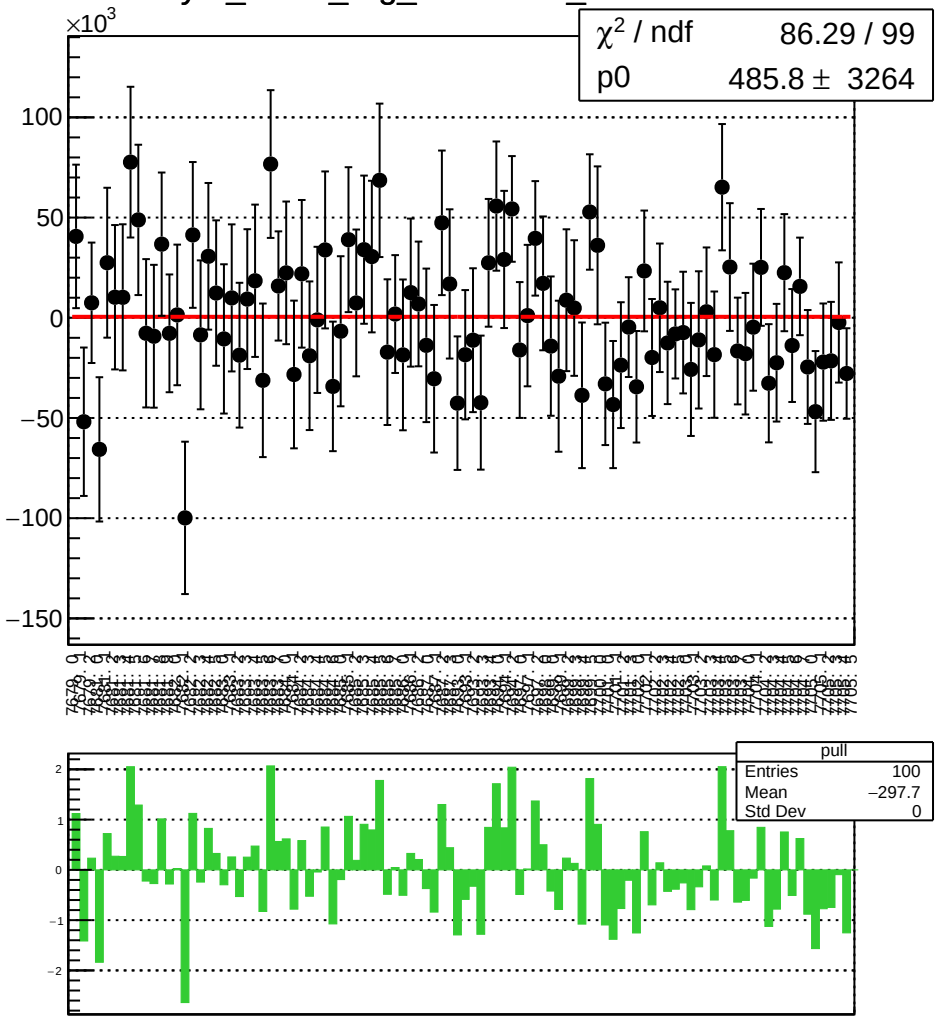

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.9 / 99
p0 1.299e−14 ± 2.21e−13
50
40
30
20
10
0
−10
−20
−30
pull
Entries 100
Mean 72.4
Std Dev 15.57
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.04051
Std Dev 0.9733
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

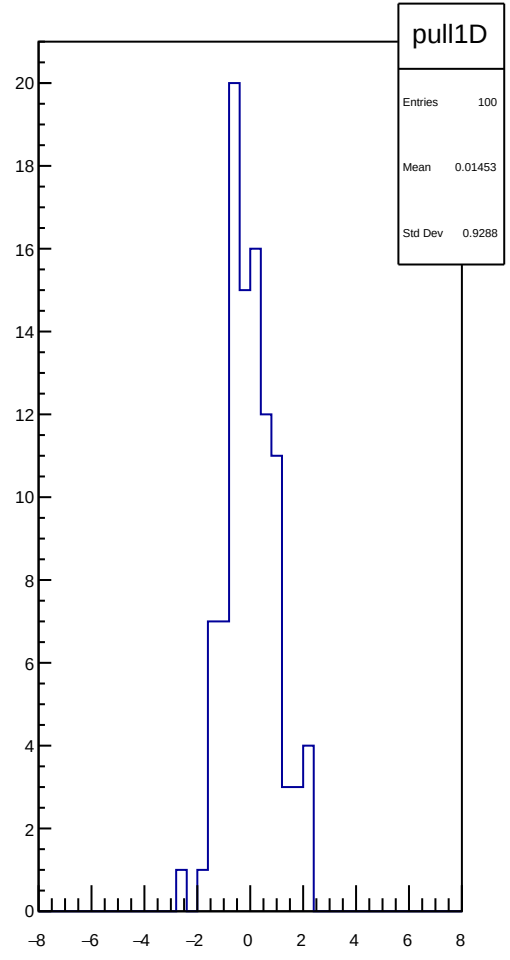

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.05e+05 / 99
p0 1.726e−10 ± 1.563e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

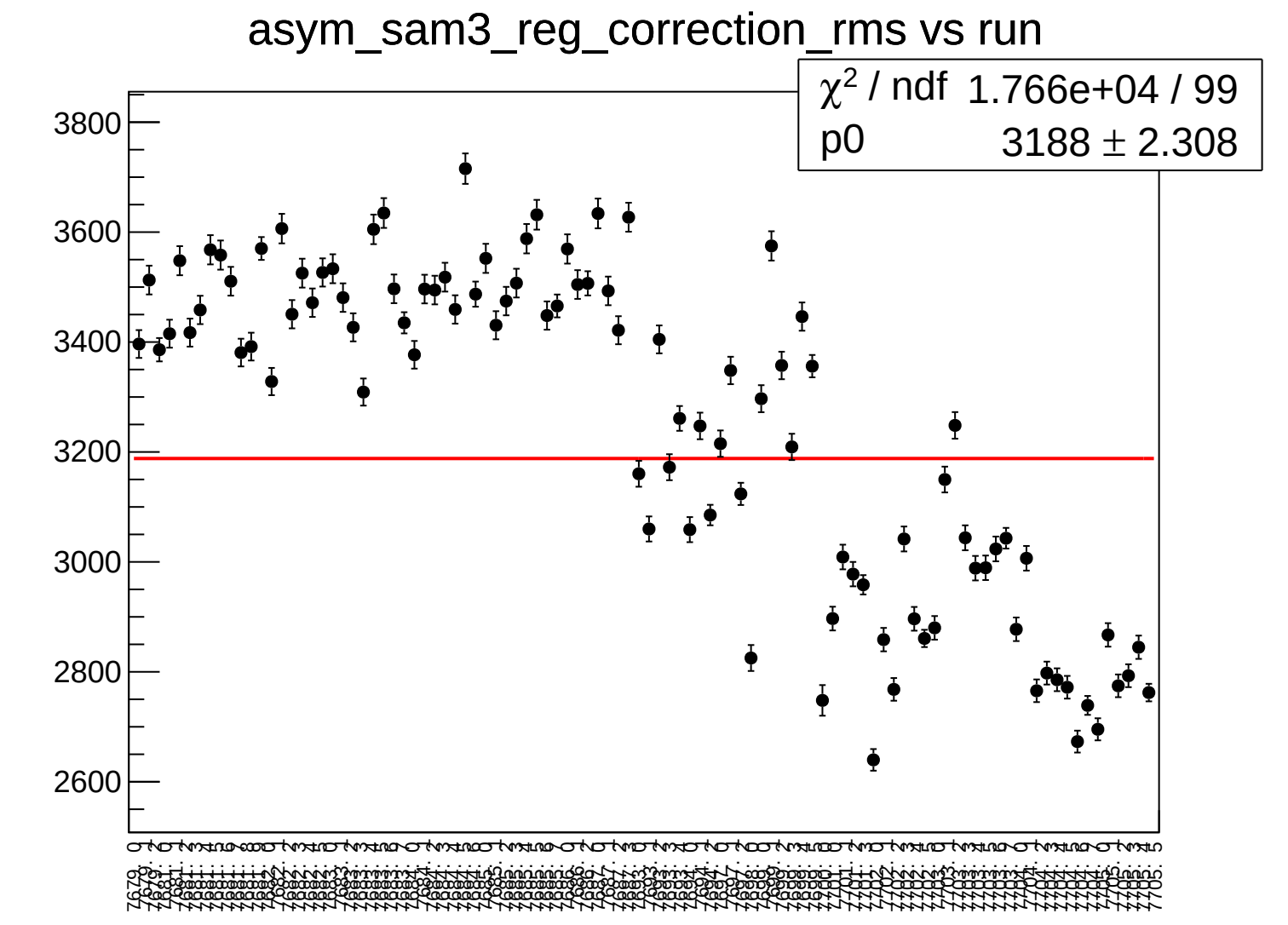

reg_asym_sam3_mean vs run
χ² / ndf 98.25 / 99
p0 172 ± 308.3
10000
5000
0
−5000
−10000
pull
Entries 100
Mean 385.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

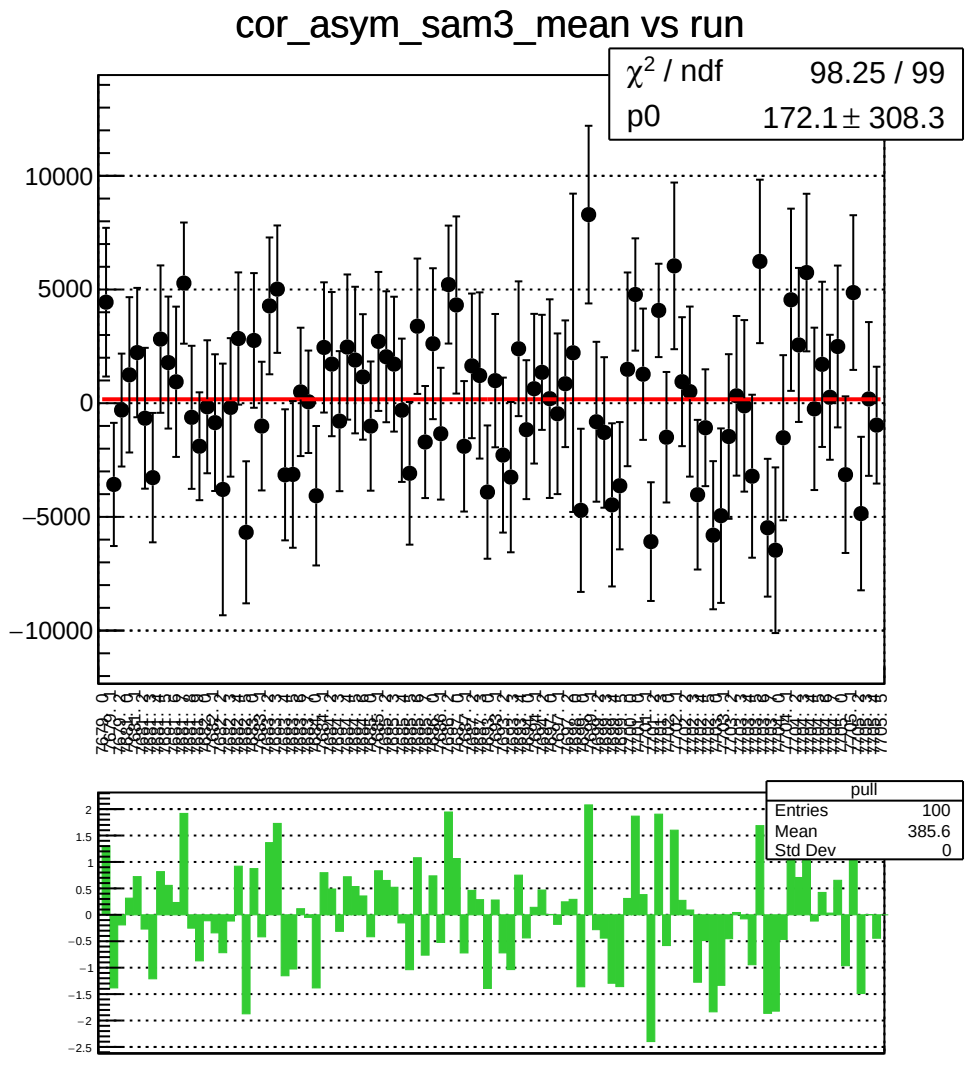

pull1D
Entries 100
Mean −0.006727
Std Dev 0.9912
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

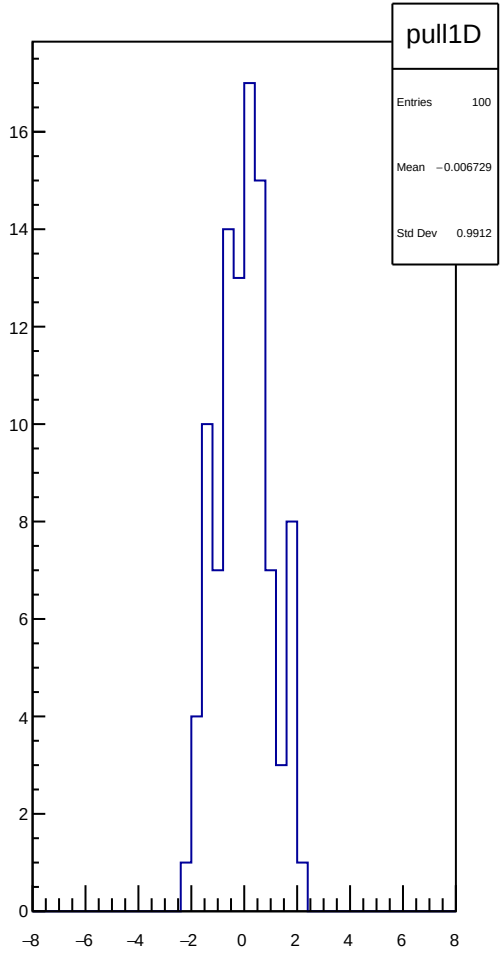

reg_asym_sam3_rms vs run
χ^2 / ndf 2.699e+04 / 99
p0 300.3 ± 0.218
600
550
500
450
400
350
300
250
200

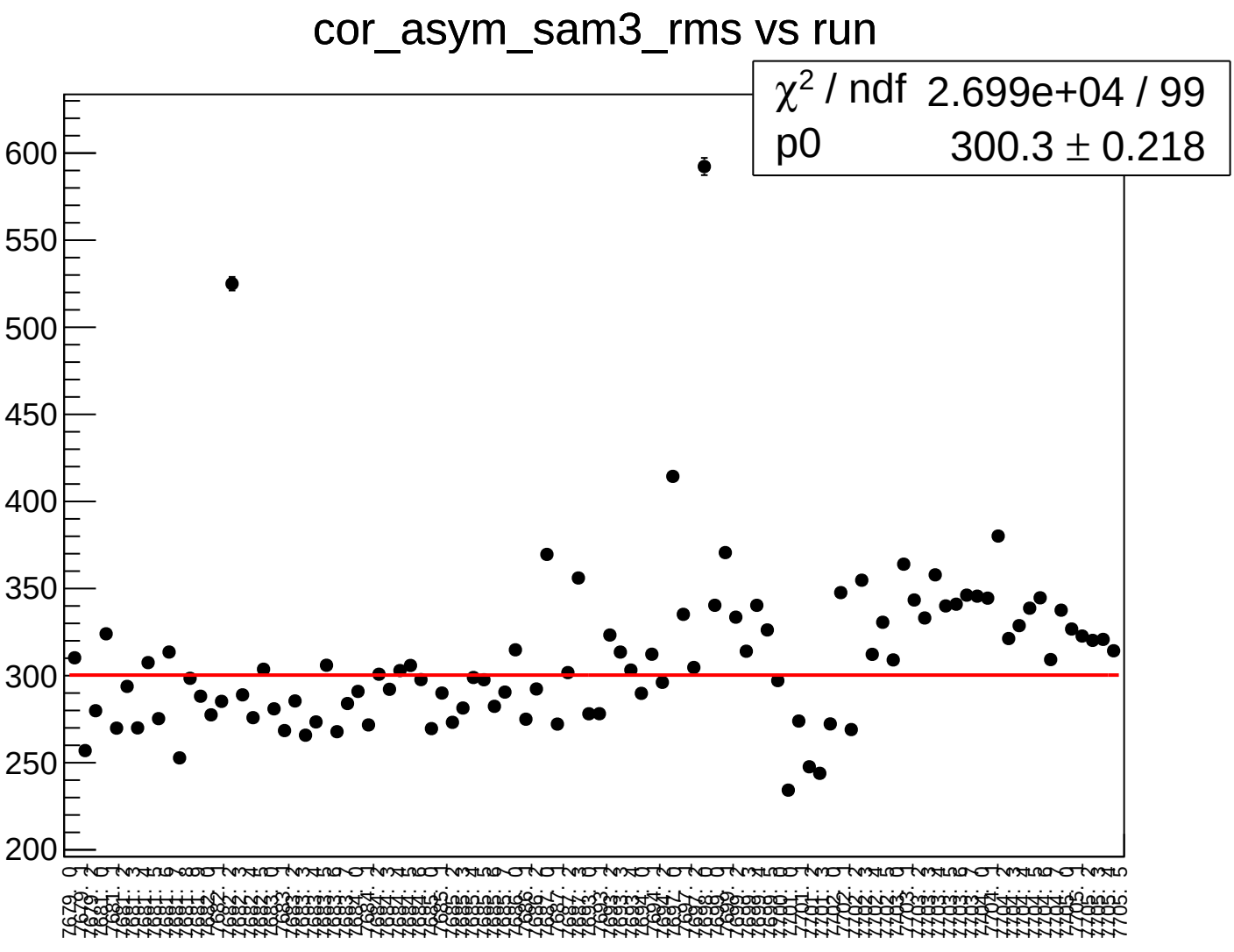

asym_sam3_reg_correction_mean vs run
χ² / ndf 86.29 / 99
p0 485.8 ± 3264
×10³
pull
Entries 100
Mean −297.7
Std Dev 0

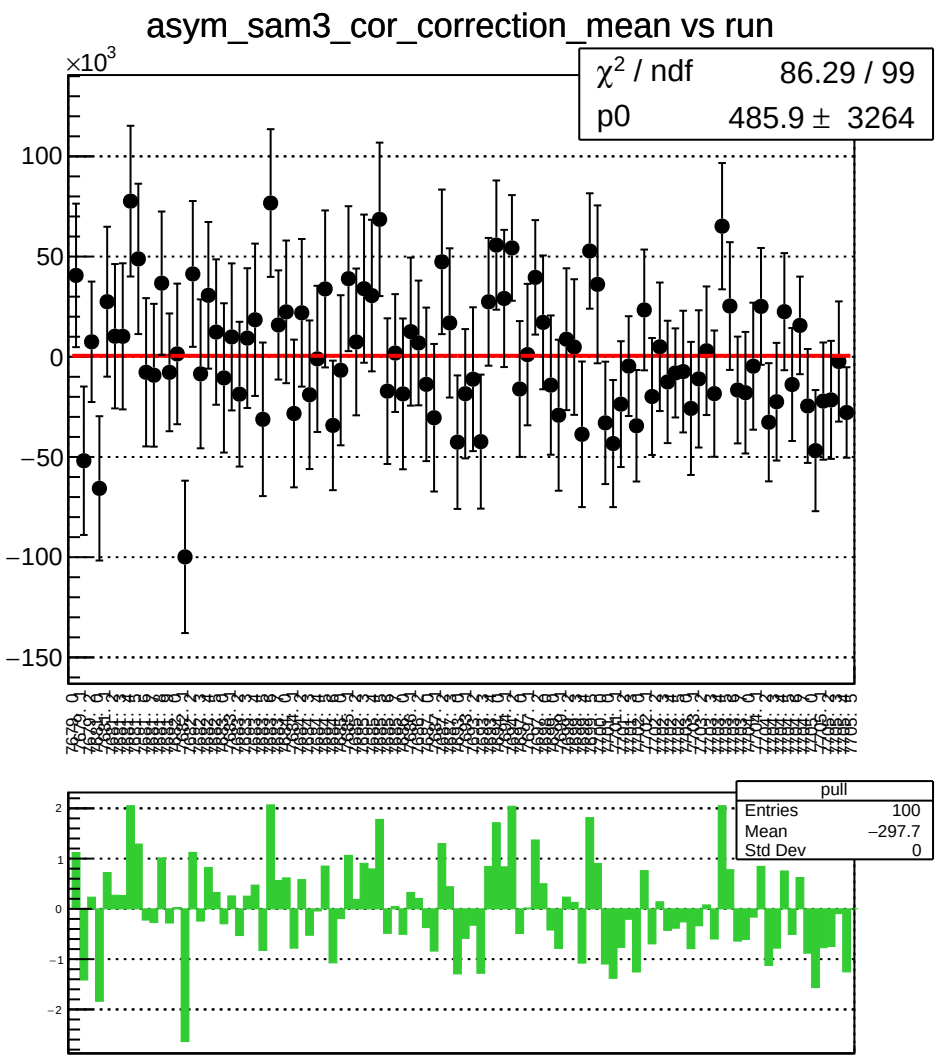

pull1D
Entries 100
Mean 0.01453
Std Dev 0.9288

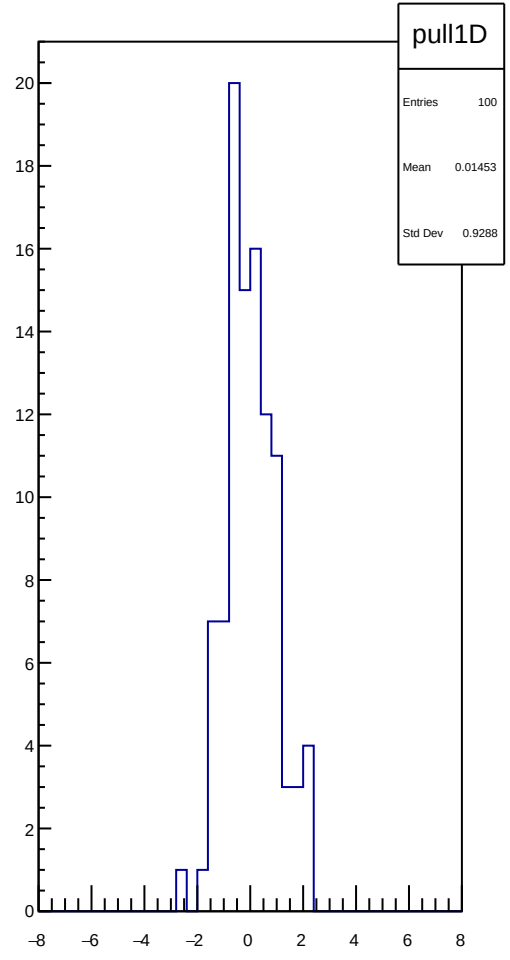

asym_sam3_reg_correction_rms vs run
χ² / ndf 1.766e+04 / 99
p0 3188 ± 2.308
3800
3600
3400
3200
3000
2800
2600


cor_asym_sam3_mean vs run
χ² / ndf 98.25 / 99
p0 172.1 ± 308.3
10000
5000
0
−5000
−10000
pull
Entries 100
Mean 385.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

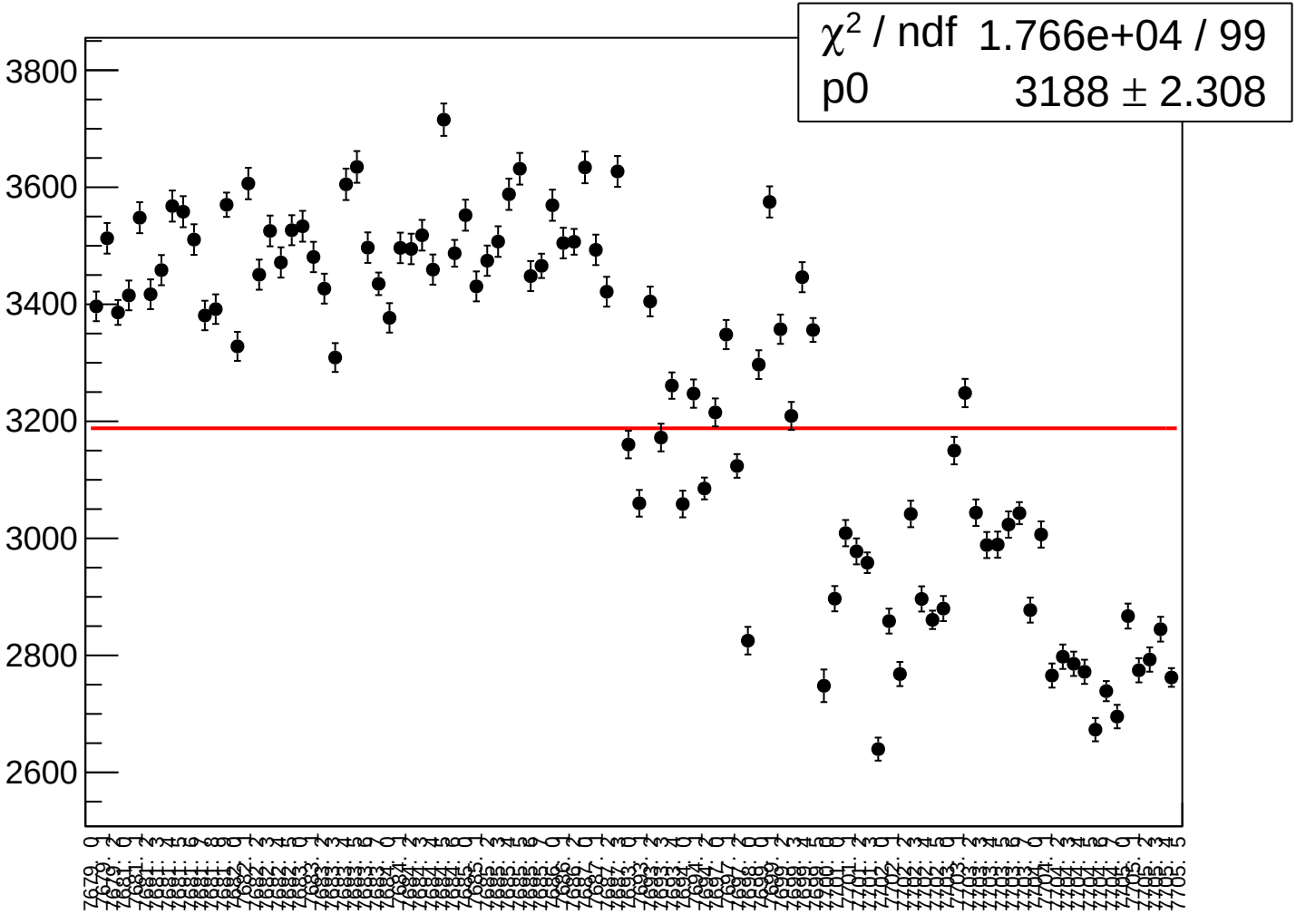

pull1D
Entries 100
Mean −0.006729
Std Dev 0.9912
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

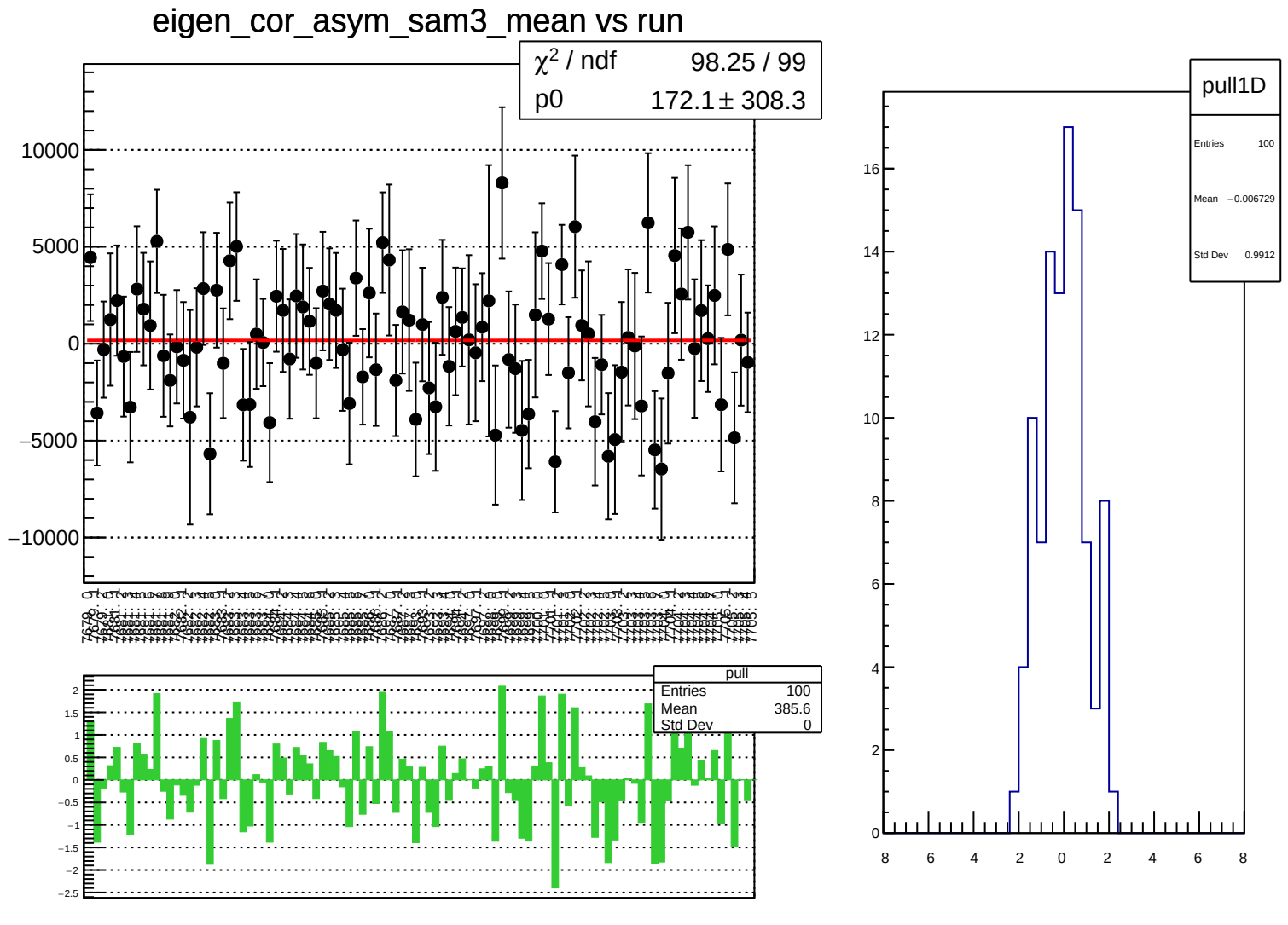

cor_asym_sam3_rms vs run
χ^2 / ndf 2.699e+04 / 99
p0 300.3 ± 0.218
600
550
500
450
400
350
300
250
200

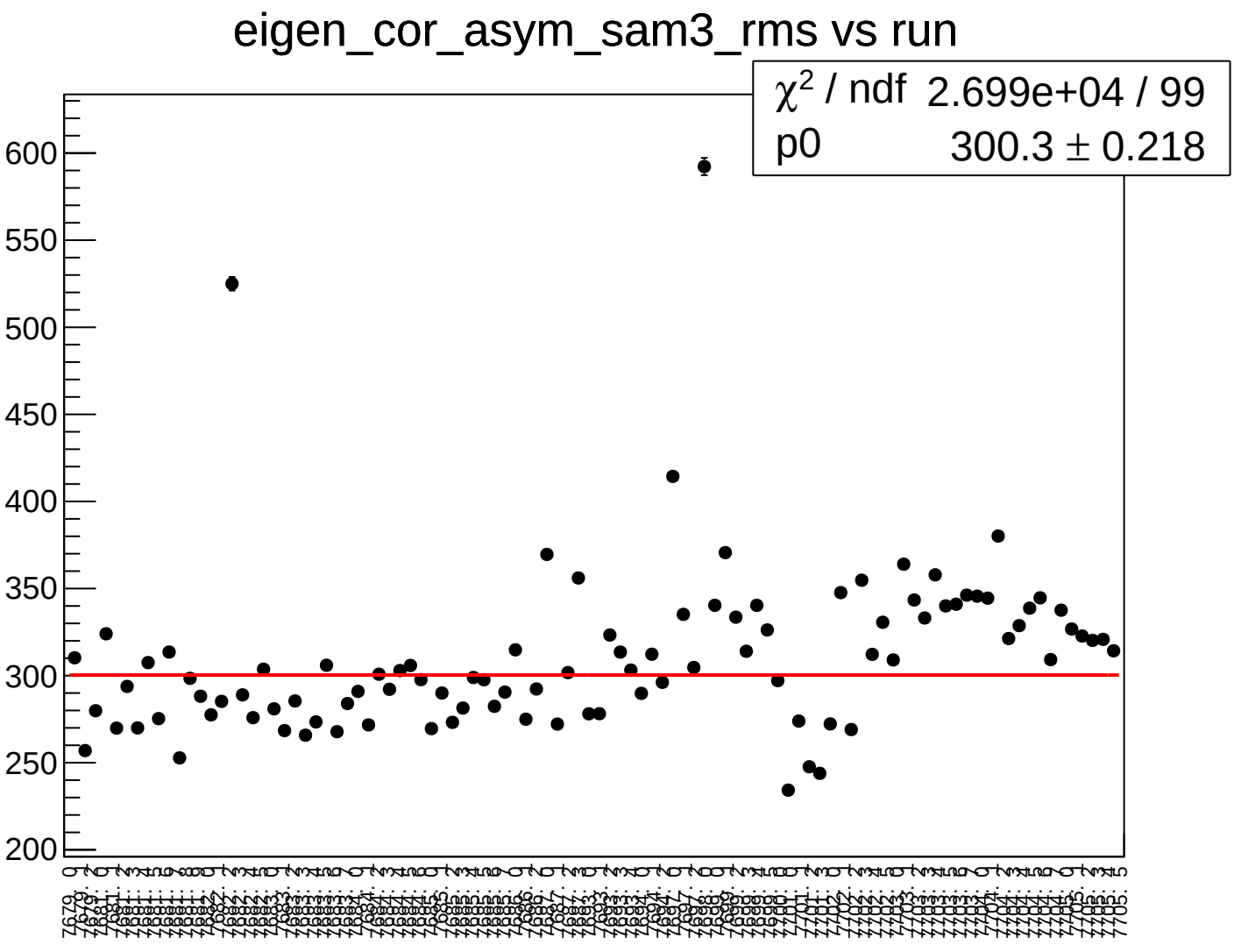

asym_sam3_cor_correction_mean vs run
χ² / ndf 86.29 / 99
p0 485.9 ± 3264
×10³
pull
Entries 100
Mean −297.7
Std Dev 0

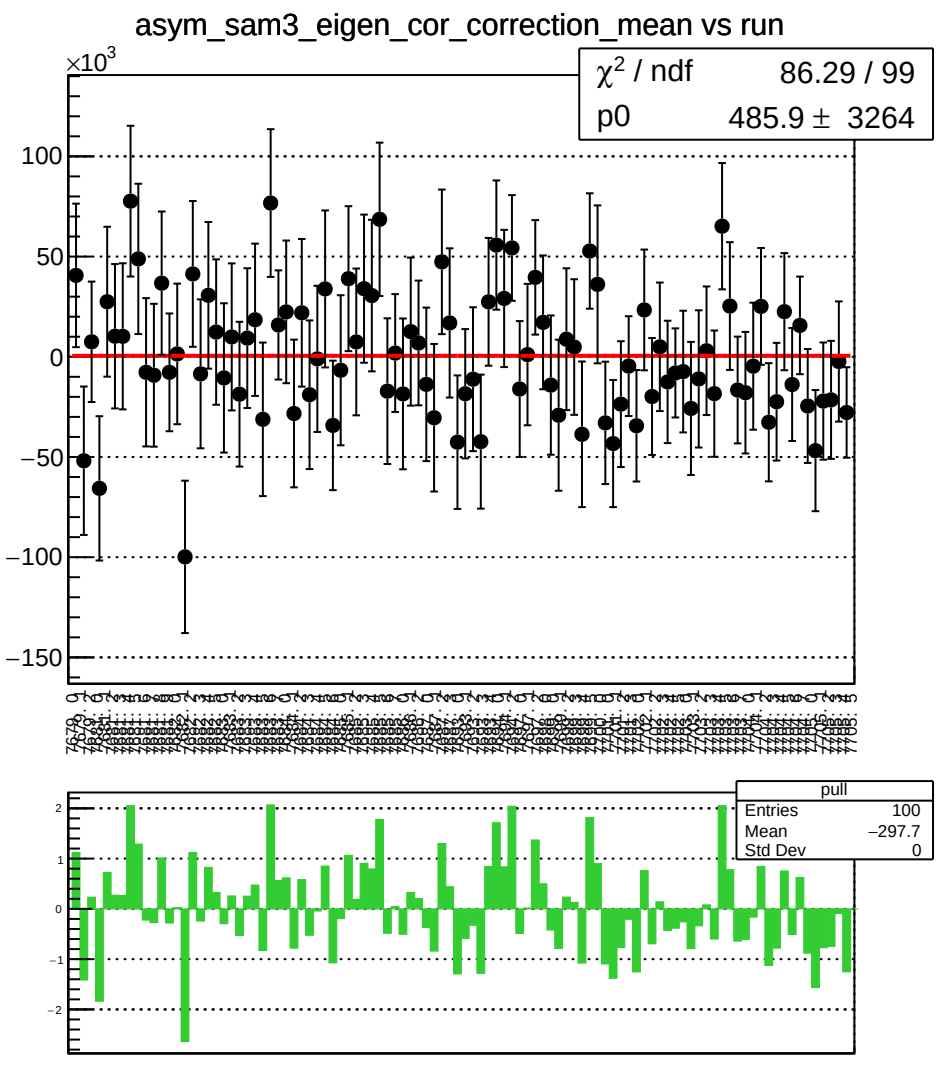

pull1D
Entries 100
Mean 0.01453
Std Dev 0.9288

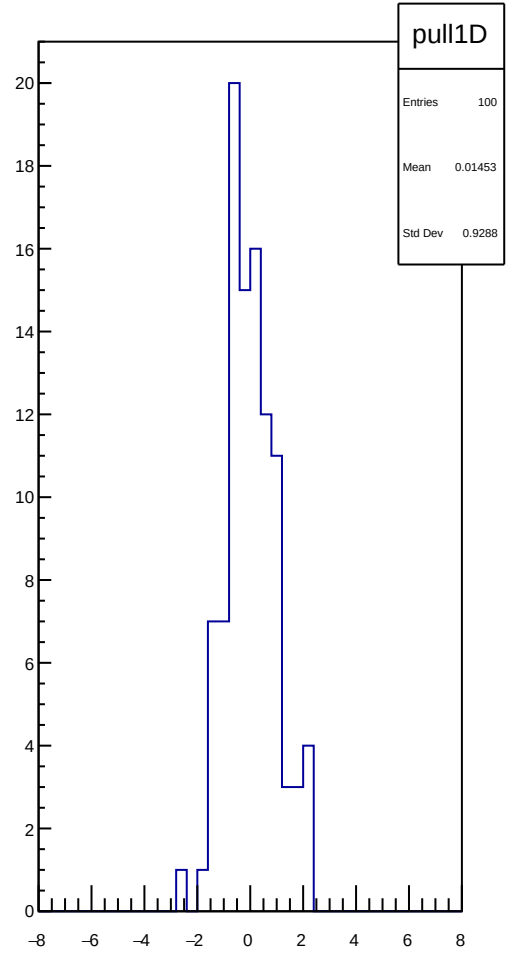
asym_sam3_cor_correction_rms vs run

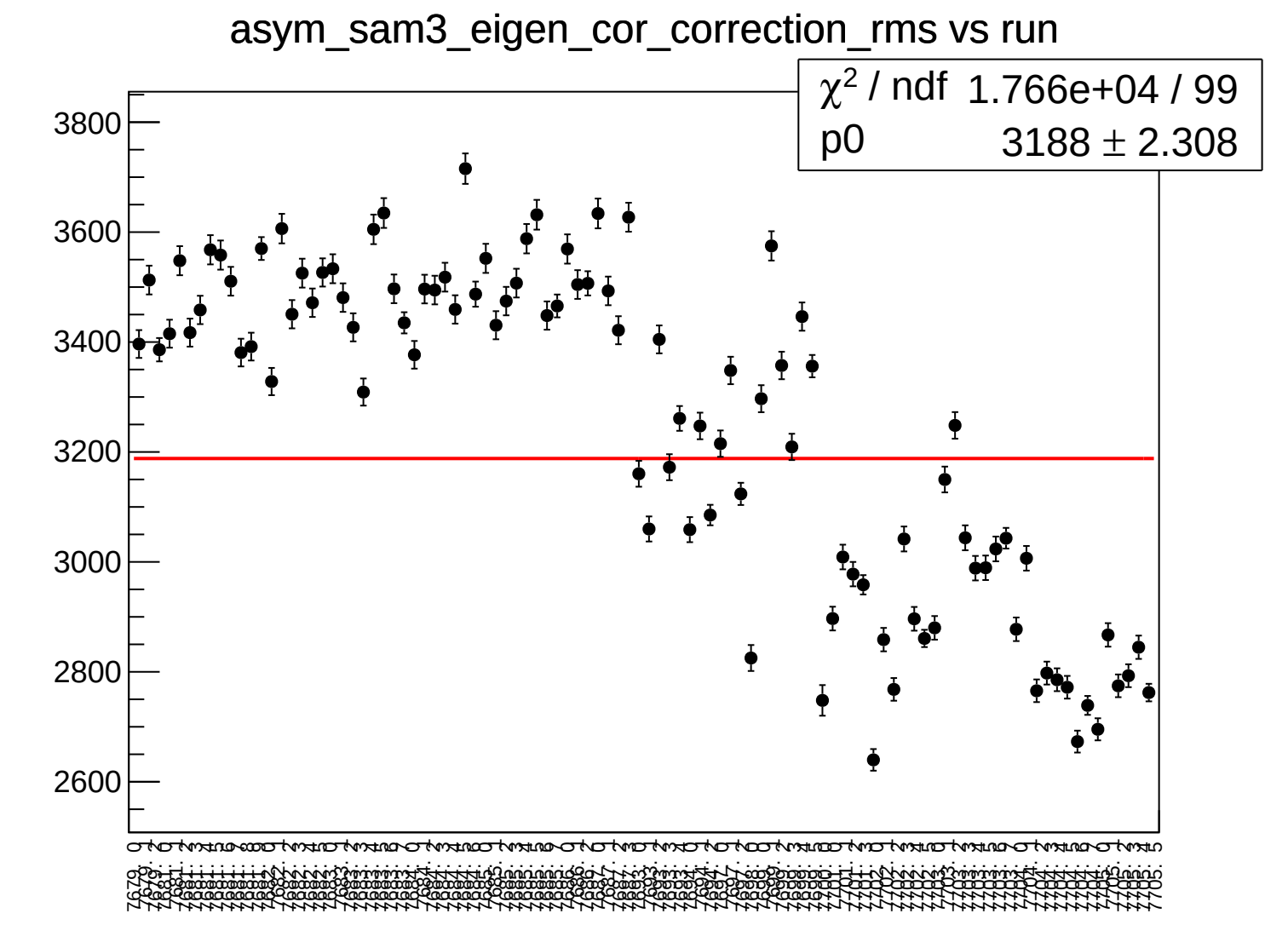


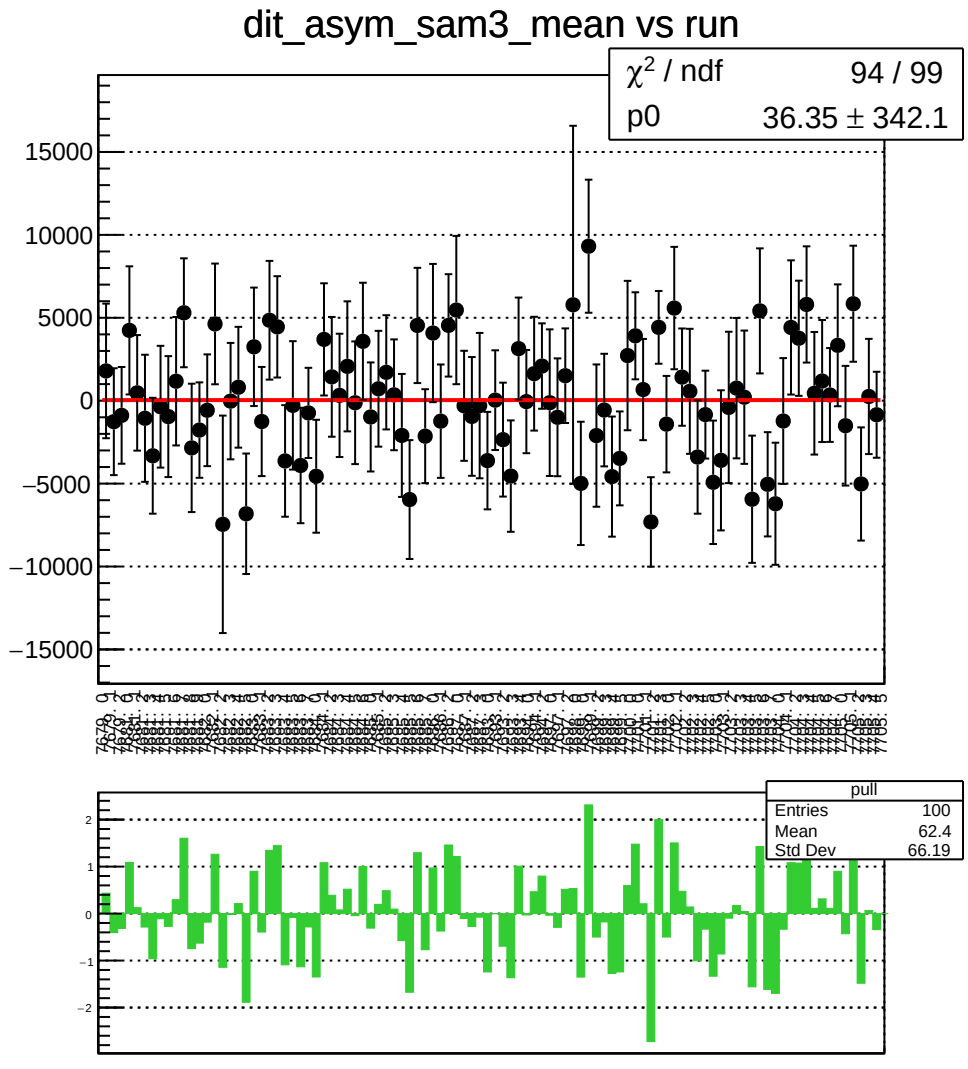

eigen_cor_asym_sam3_mean vs run
χ² / ndf 98.25 / 99
p0 172.1 ± 308.3
10000
5000
0
−5000
−10000
pull
Entries 100
Mean 385.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 100
Mean −0.006729
Std Dev 0.9912
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

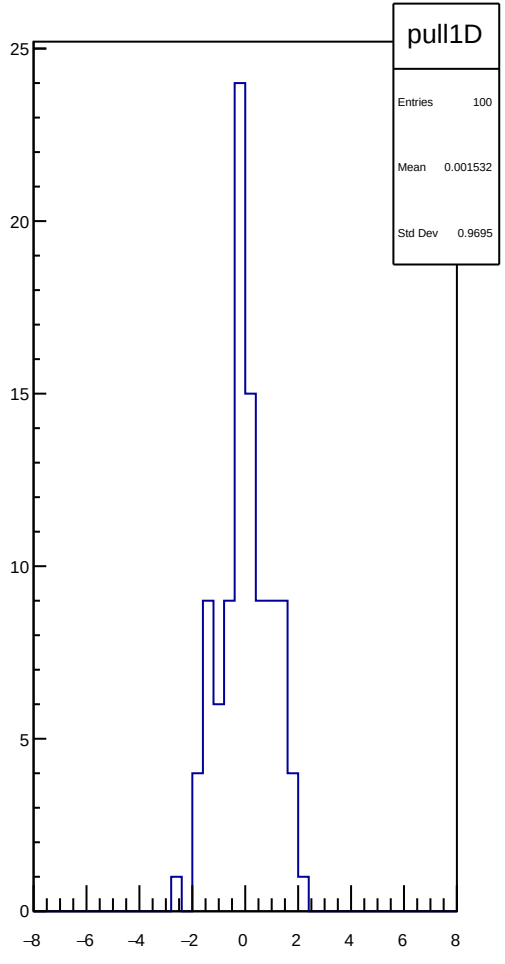

eigen_cor_asym_sam3_rms vs run
χ^2 / ndf 2.699e+04 / 99
p0 300.3 ± 0.218
600
550
500
450
400
350
300
250
200

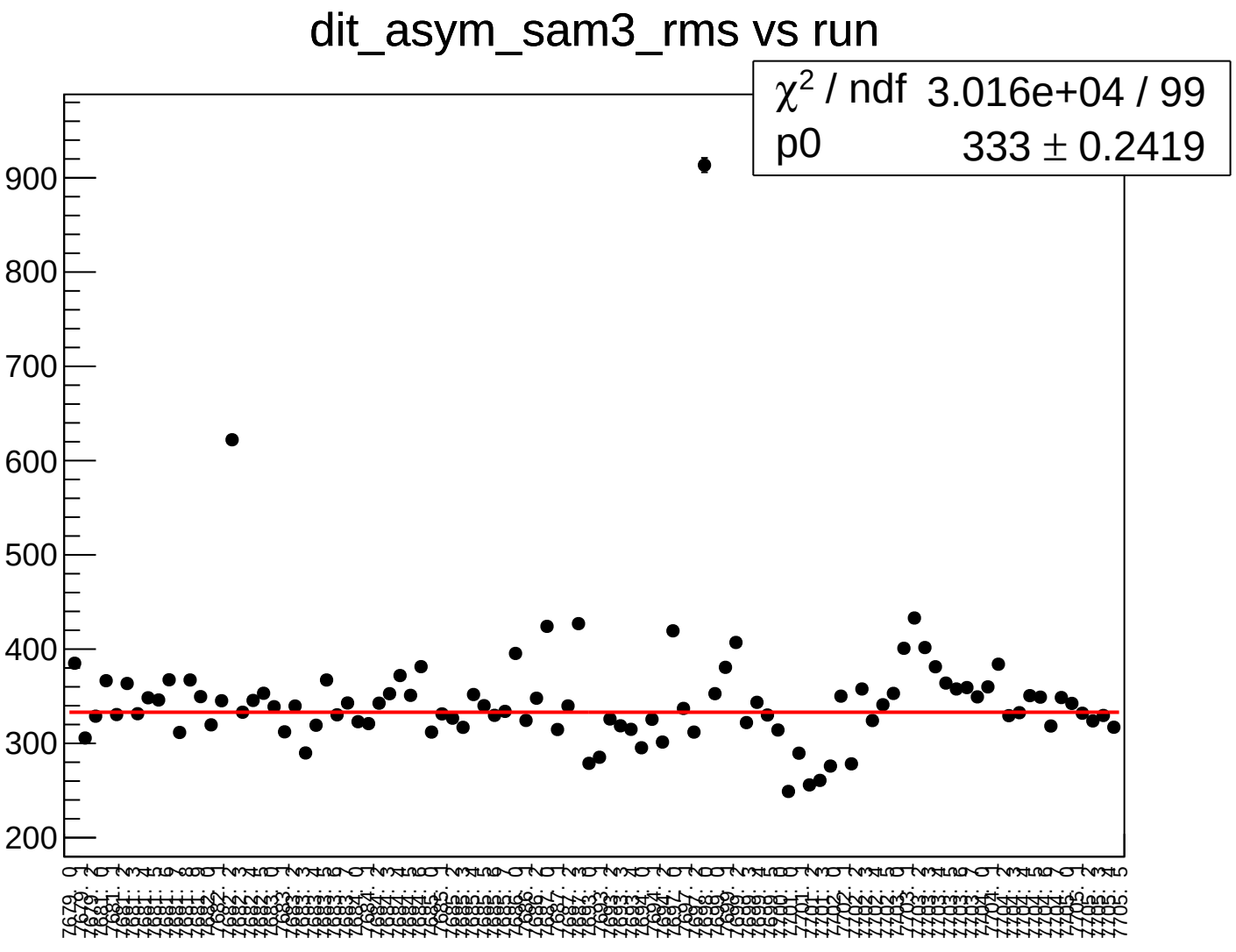

asym_sam3_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 86.29 / 99
p0 485.9 ± 3264
100
50
0
−50
−100
−150
pull
Entries 100
Mean −297.7
Std Dev 0
2
1
0
−1
−2

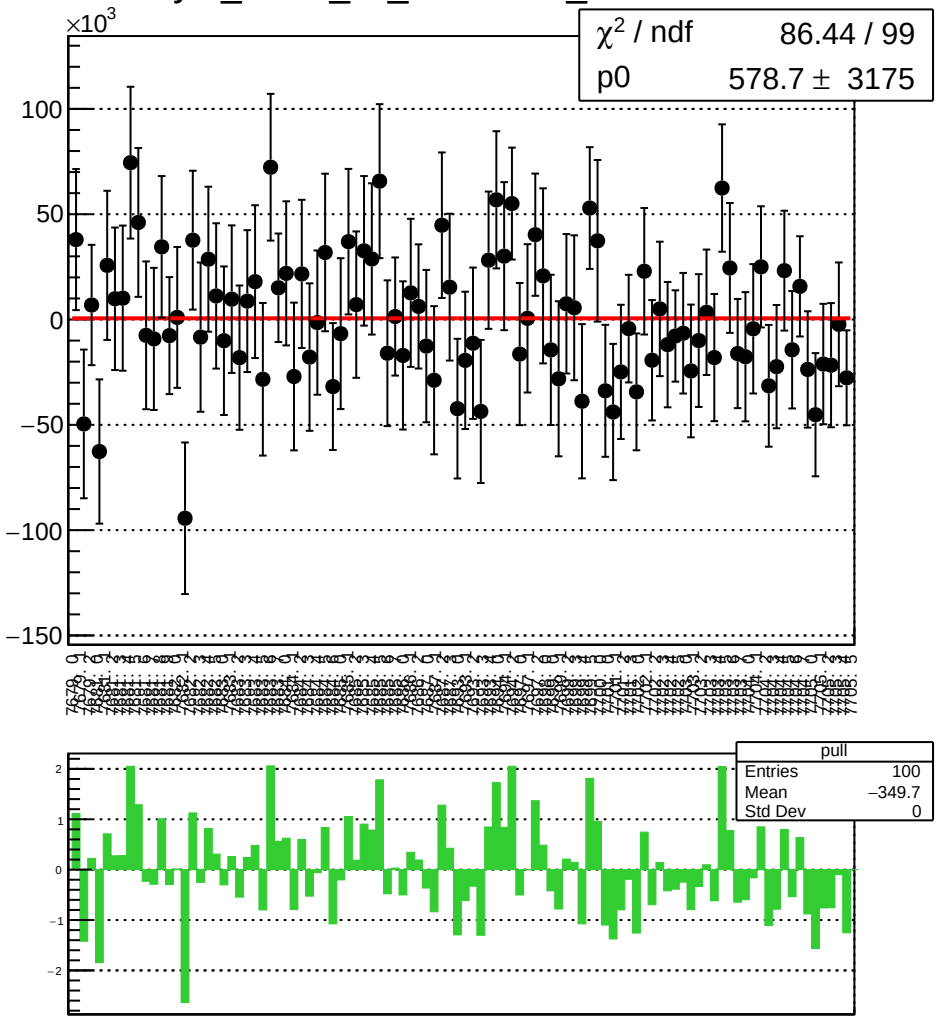

pull1D
Entries 100
Mean 0.01453
Std Dev 0.9288
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

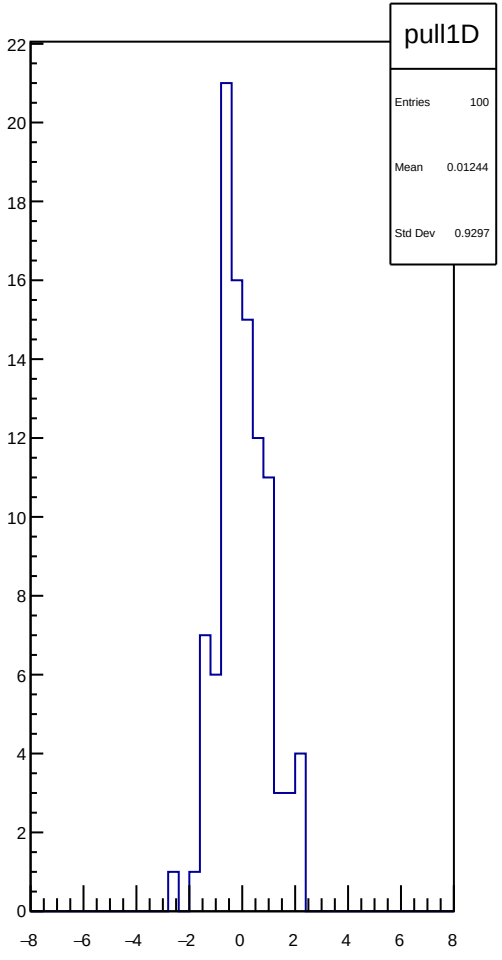

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 1.766e+04 / 99
p0 3188 ± 2.308
3800
3600
3400
3200
3000
2800
2600

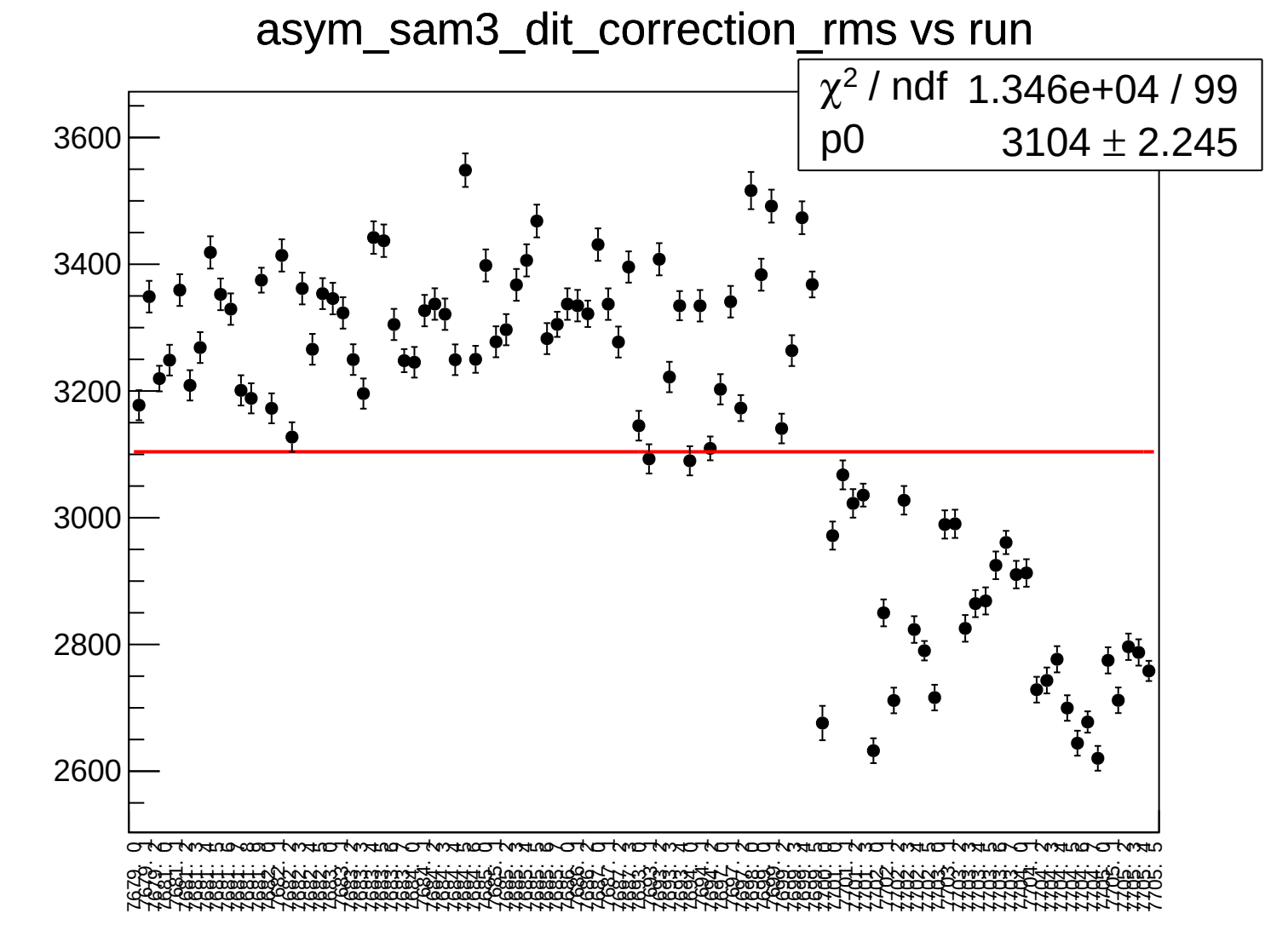

dit_asym_sam3_mean vs run
χ² / ndf 94 / 99
p0 36.35 ± 342.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 100
Mean 62.4
Std Dev 66.19
2
1
0
−1
−2

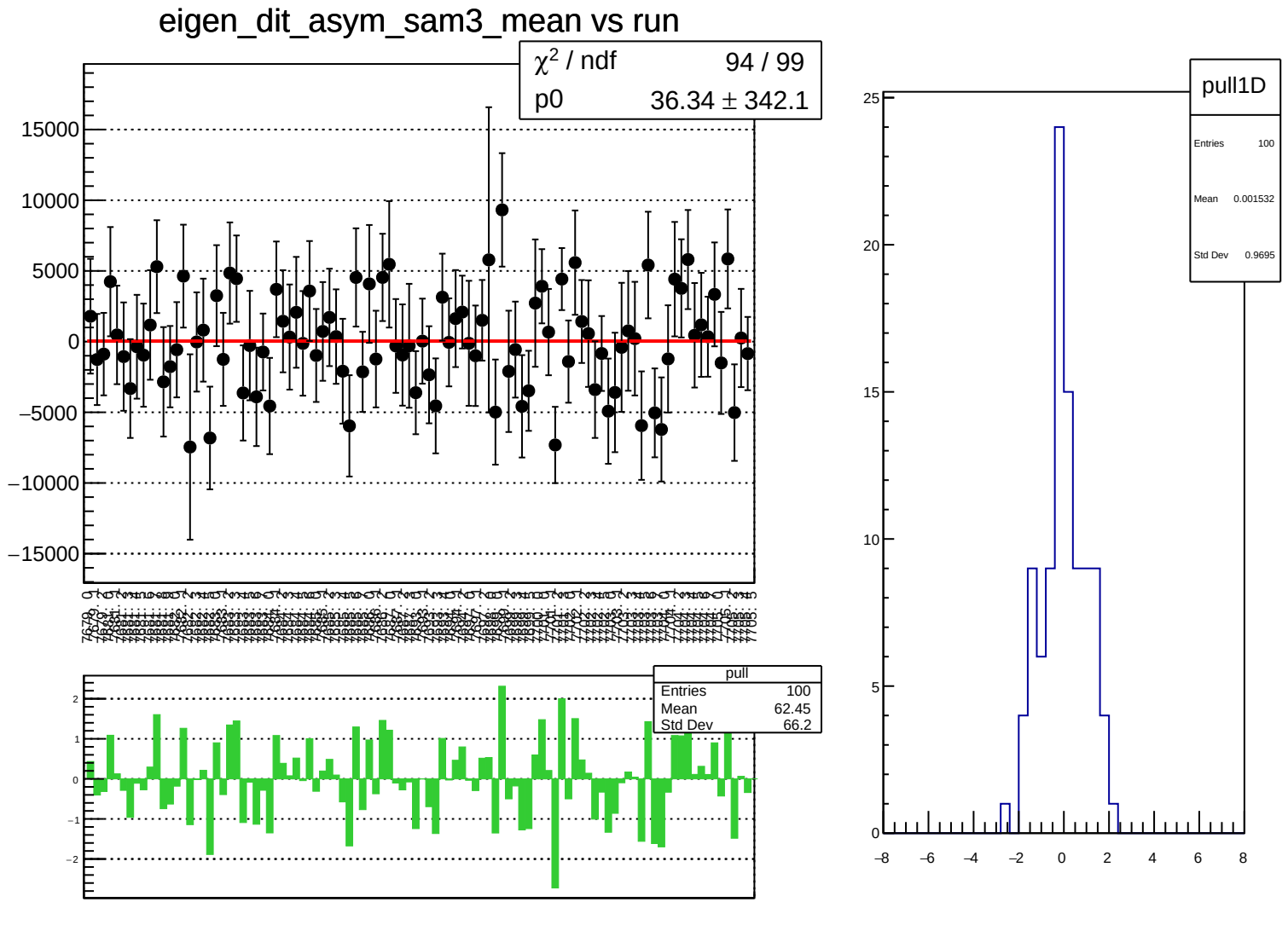

pull1D
Entries 100
Mean 0.001532
Std Dev 0.9695
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

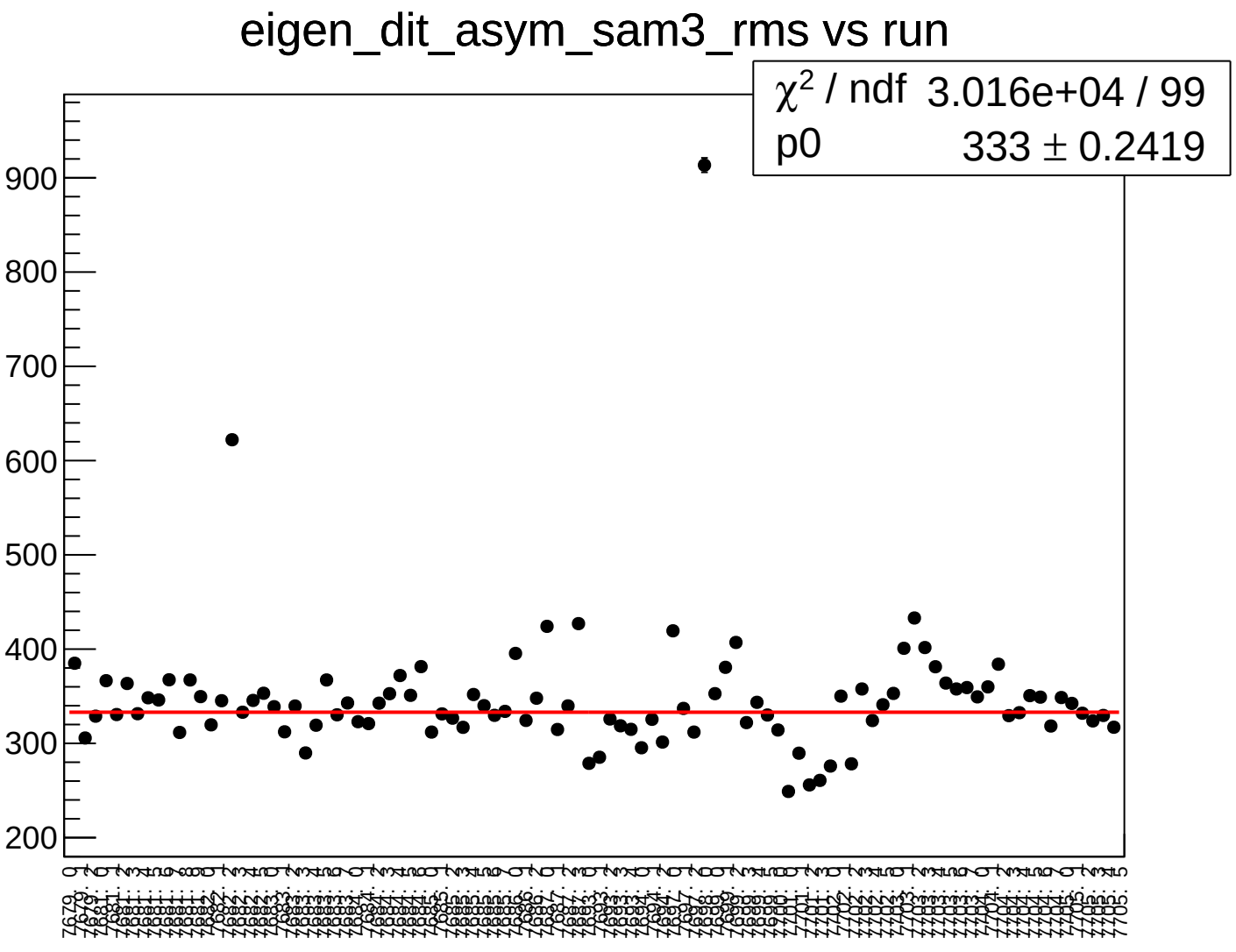

dit_asym_sam3_rms vs run
χ^2 / ndf 3.016e+04 / 99
p0 333 ± 0.2419
900
800
700
600
500
400
300
200

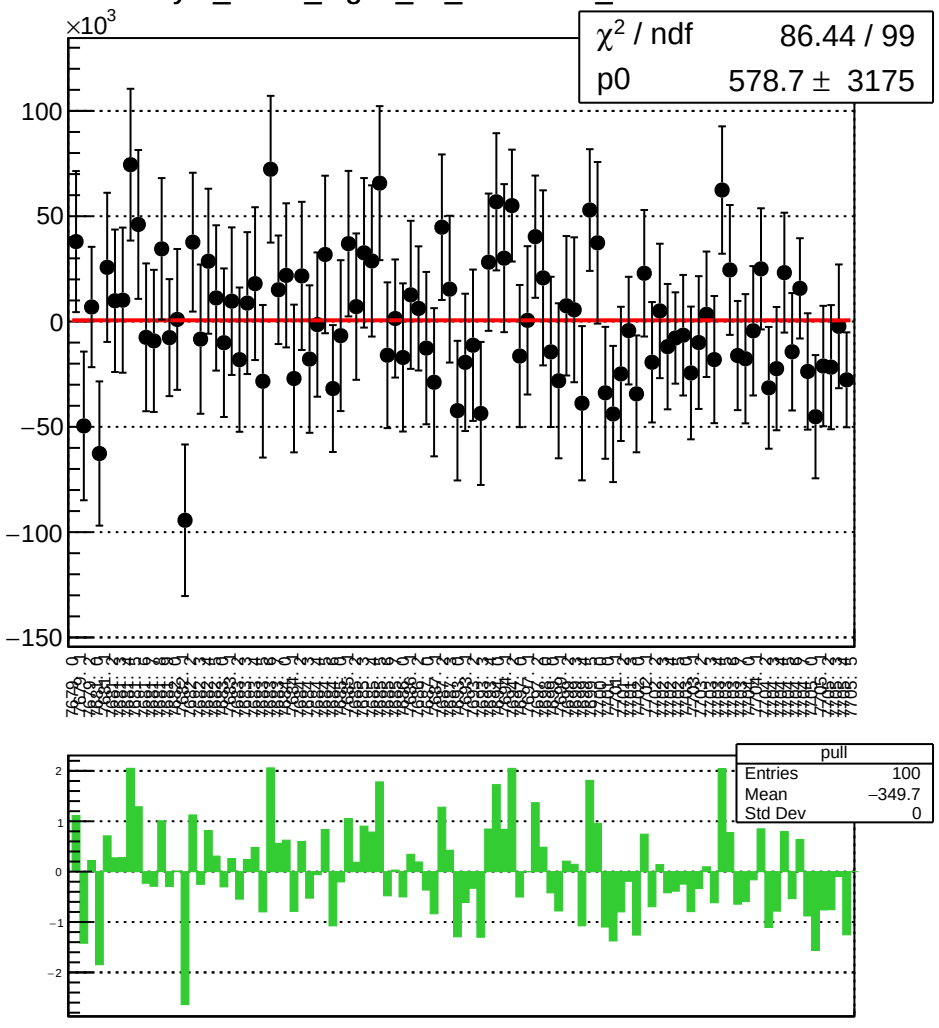

asym_sam3_dit_correction_mean vs run
×10^3
χ^2 / ndf 86.44 / 99
p0 578.7 ± 3175
100
50
0
−50
−100
−150
pull
Entries 100
Mean −349.7
Std Dev 0
2
1
0
−1
−2

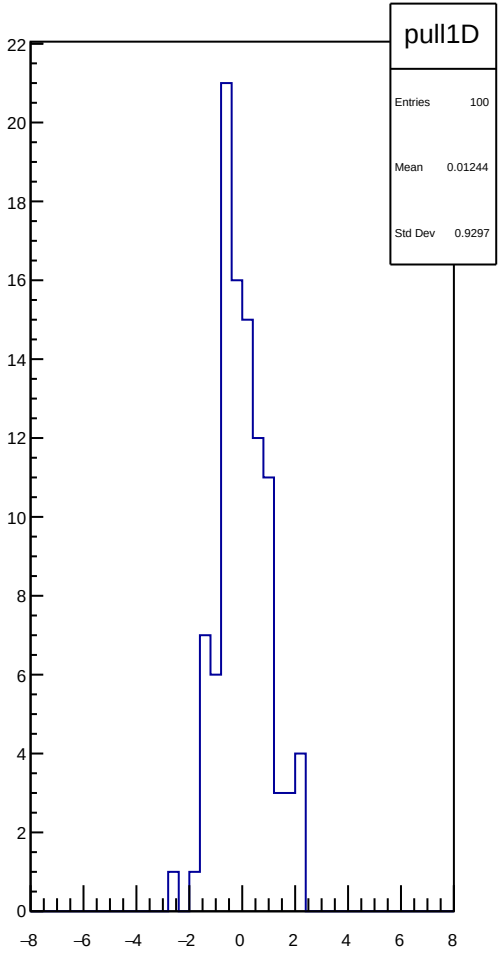

pull1D
Entries 100
Mean 0.01244
Std Dev 0.9297
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

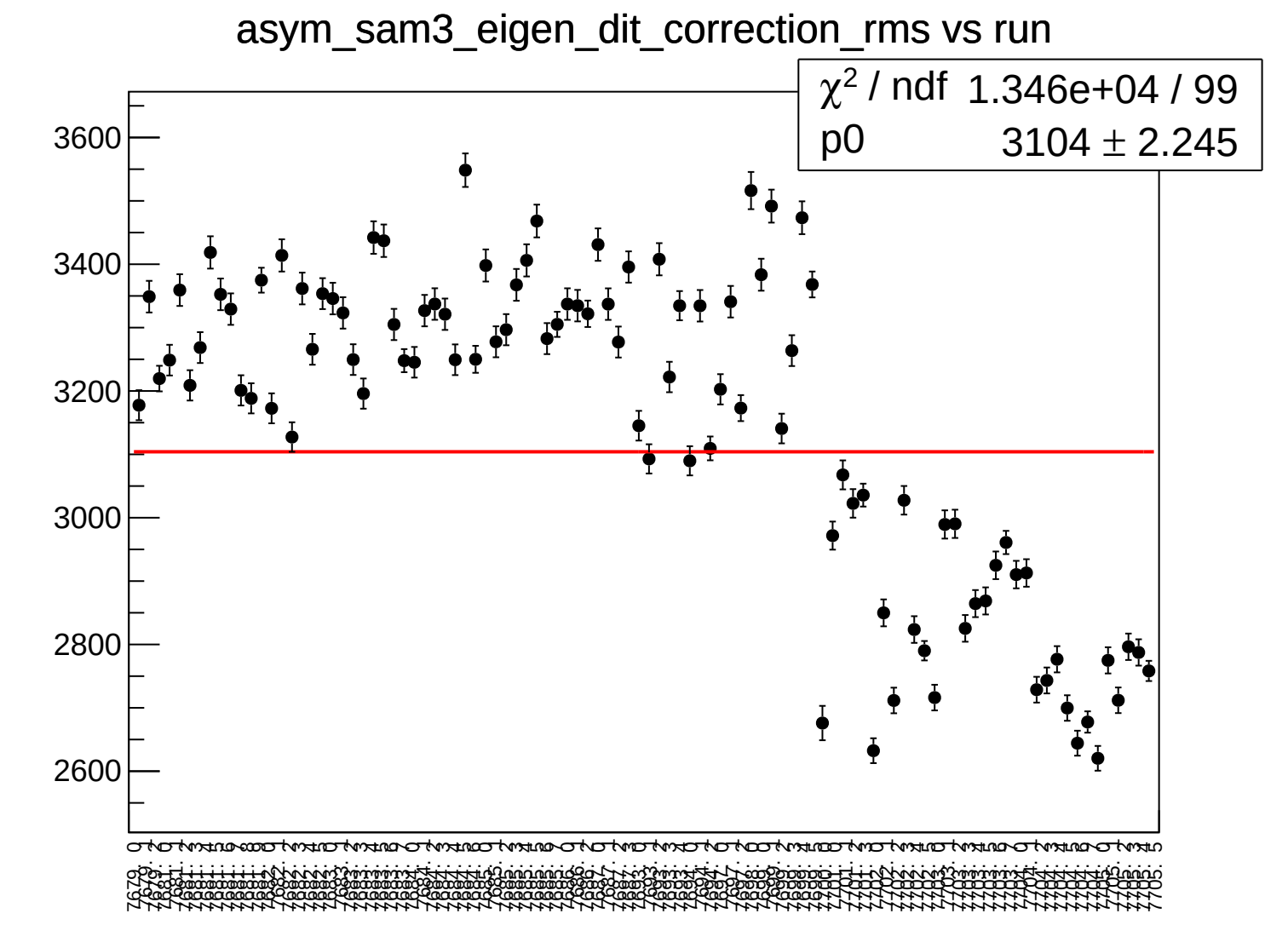

asym_sam3_dit_correction_rms vs run
χ² / ndf 1.346e+04 / 99
p0 3104 ± 2.245
3600
3400
3200
3000
2800
2600

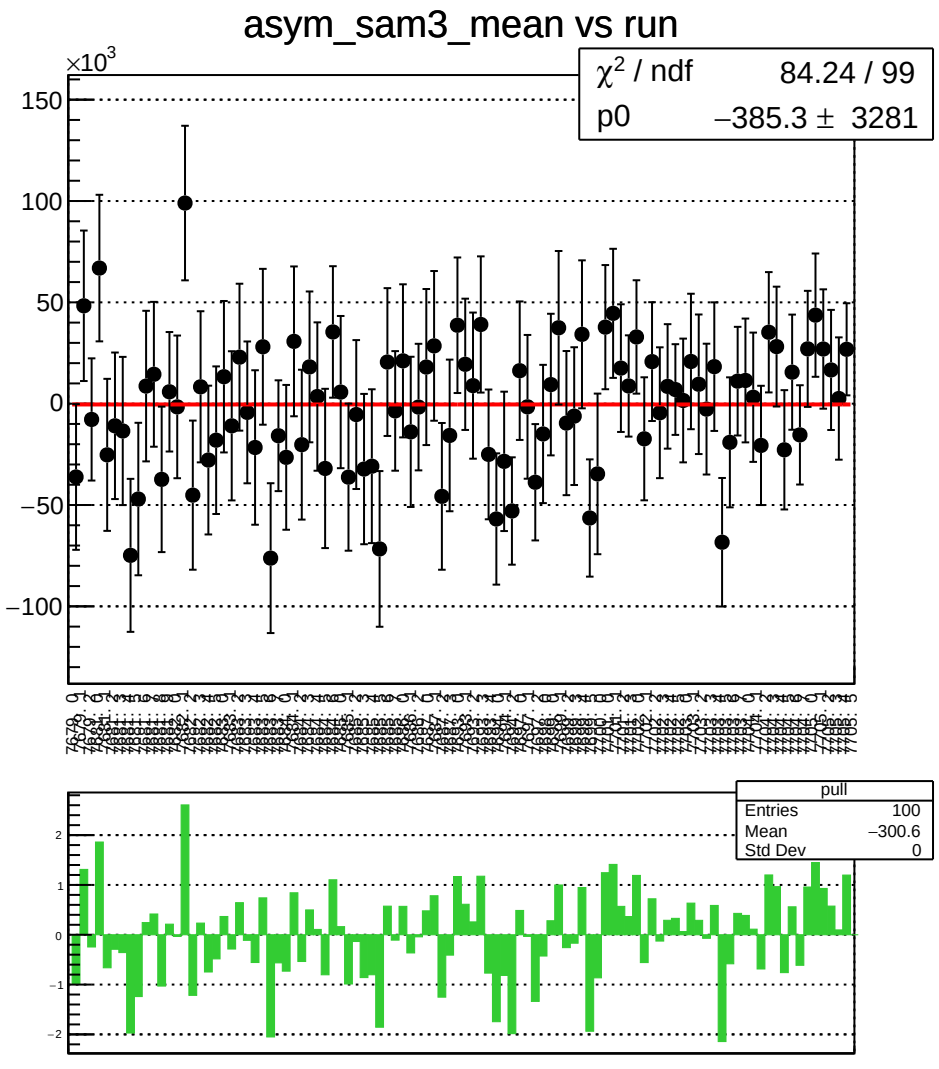

eigen_dit_asym_sam3_mean vs run
χ² / ndf 94 / 99
p0 36.34 ± 342.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 100
Mean 62.45
Std Dev 66.2
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.001532
Std Dev 0.9695
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

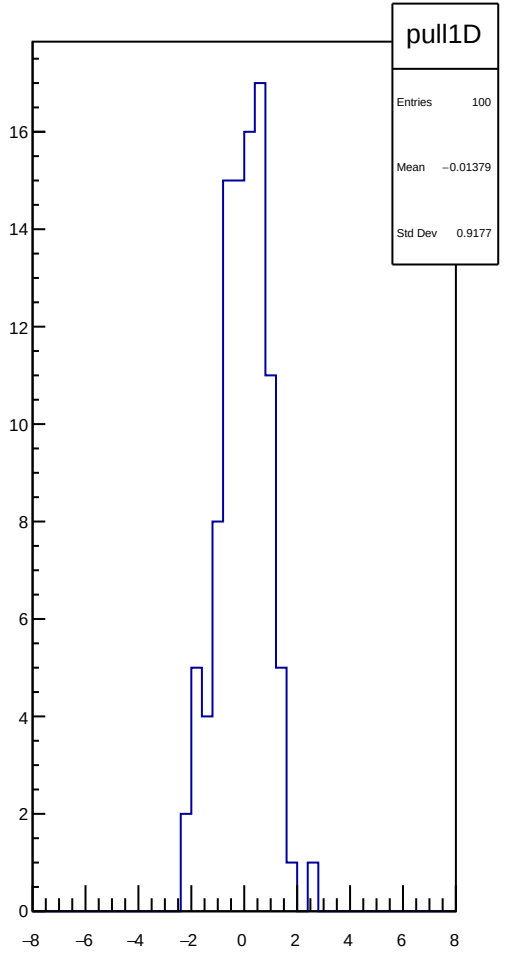

eigen_dit_asym_sam3_rms vs run
χ^2 / ndf 3.016e+04 / 99
p0 333 ± 0.2419
900
800
700
600
500
400
300
200

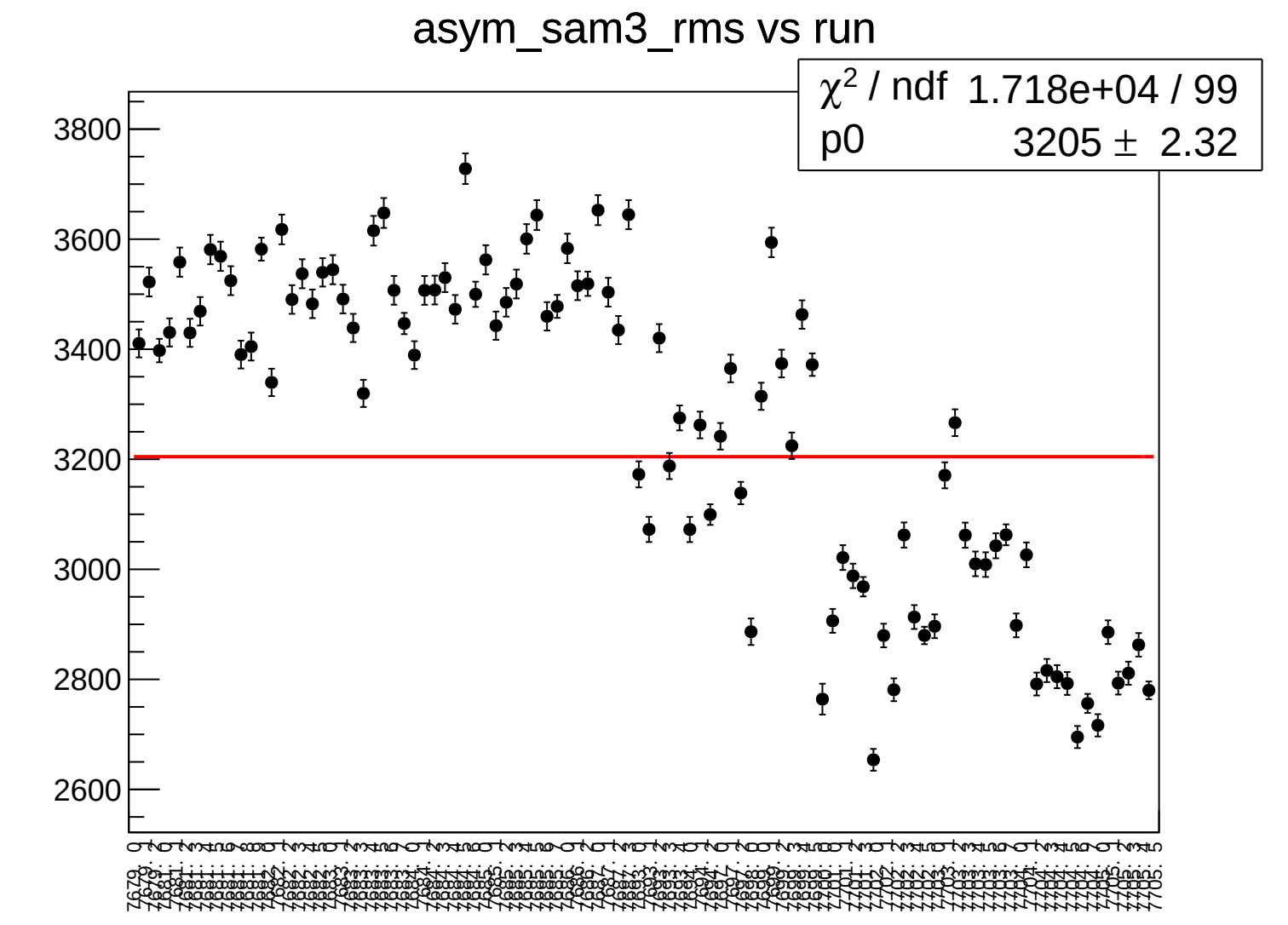

asym_sam3_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 86.44 / 99
p0 578.7 ± 3175
100
50
0
−50
−100
−150
pull
Entries 100
Mean −349.7
Std Dev 0
2
1
0
−1
−2

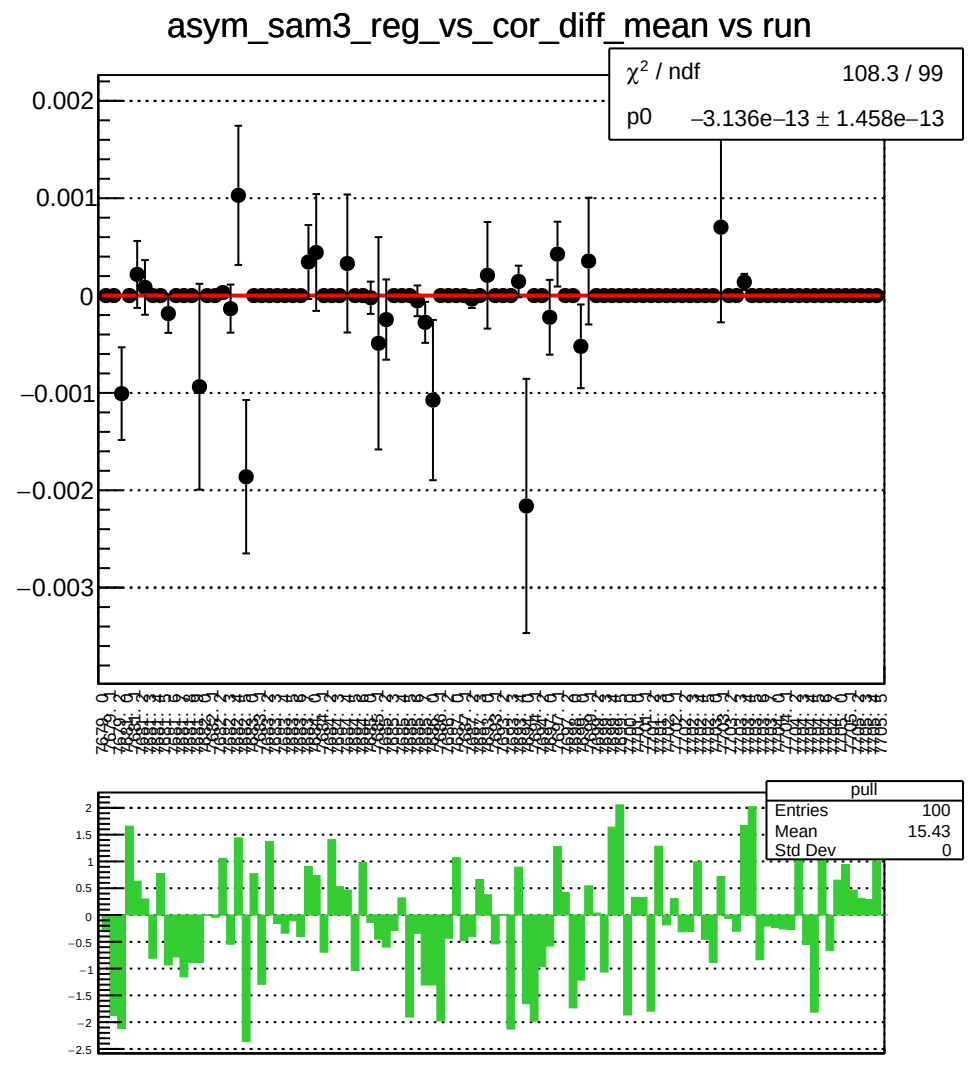

pull1D
Entries 100
Mean 0.01244
Std Dev 0.9297
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

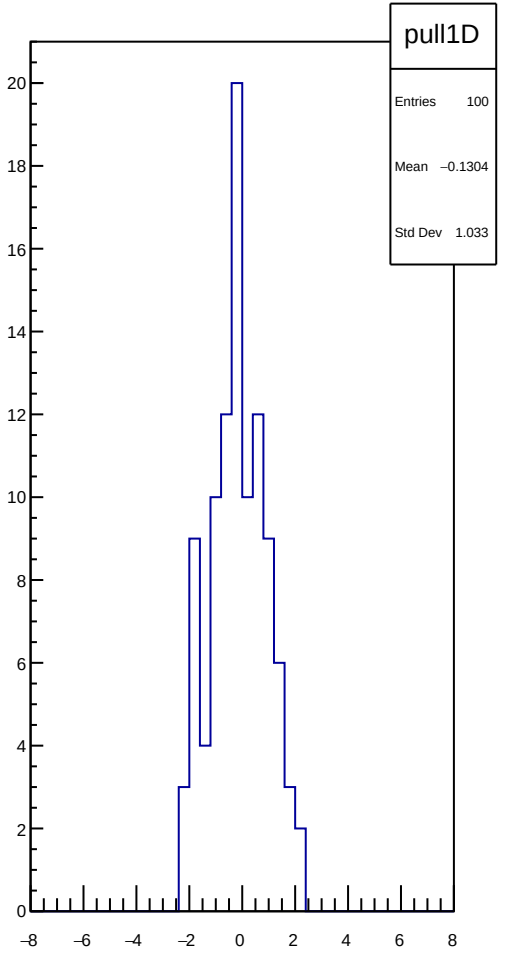

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 1.346e+04 / 99
p0 3104 ± 2.245
3600
3400
3200
3000
2800
2600

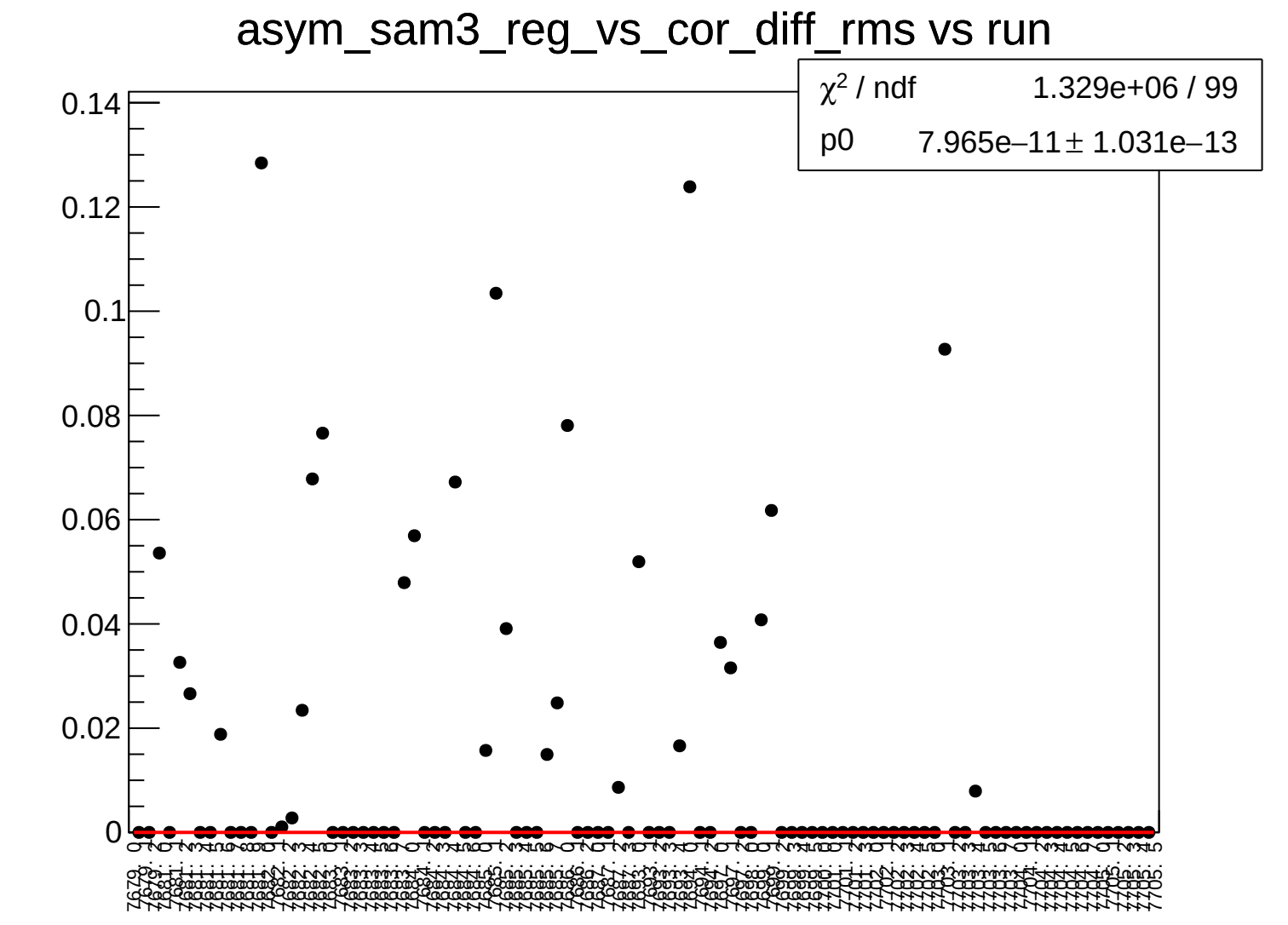

asym_sam3_mean vs run
×10^3
χ² / ndf 84.24 / 99
p0 −385.3 ± 3281
150
100
50
0
−50
−100
pull
Entries 100
Mean −300.6
Std Dev 0
2
1
0
−1
−2

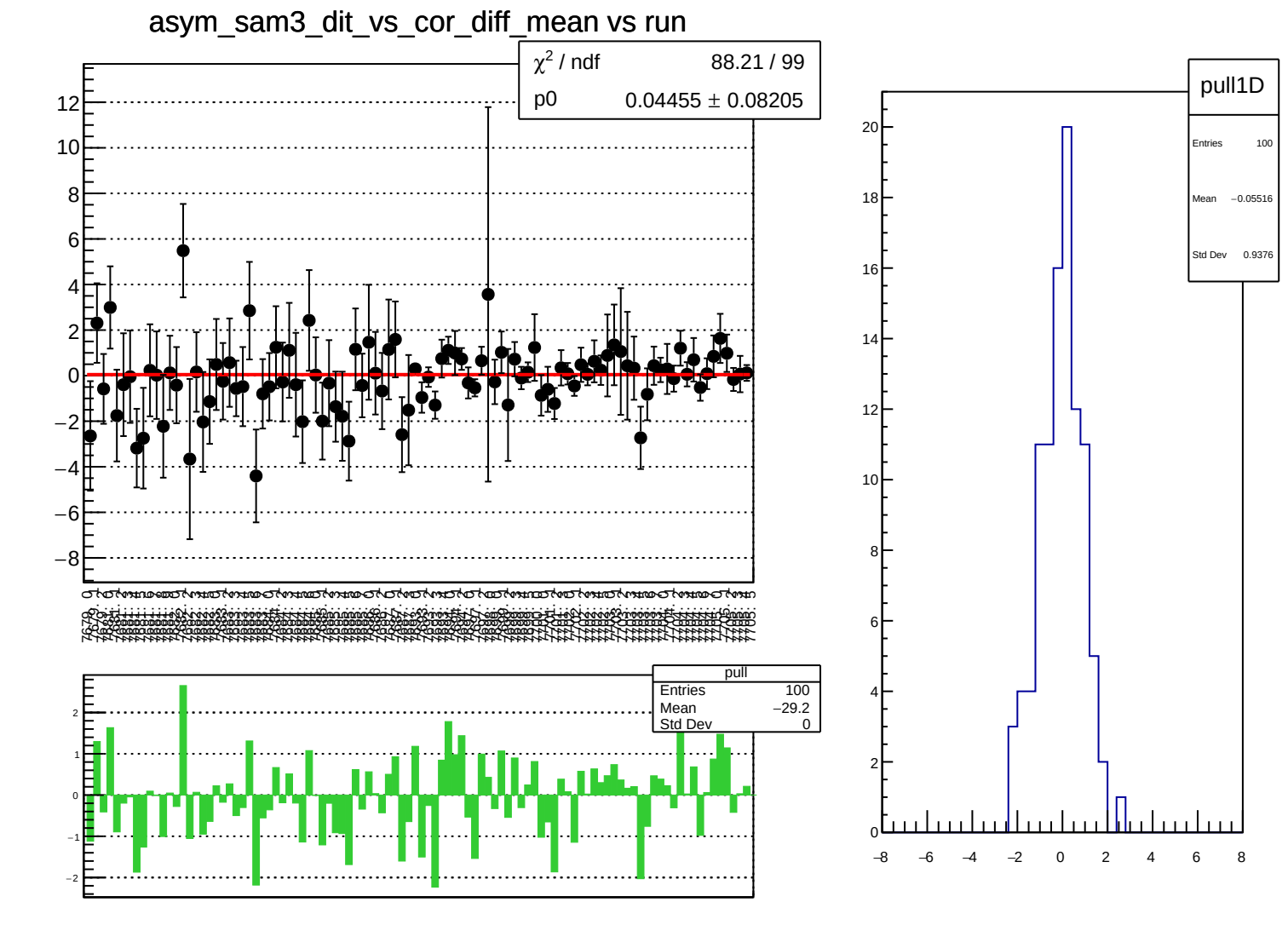

pull1D
Entries 100
Mean −0.01379
Std Dev 0.9177
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

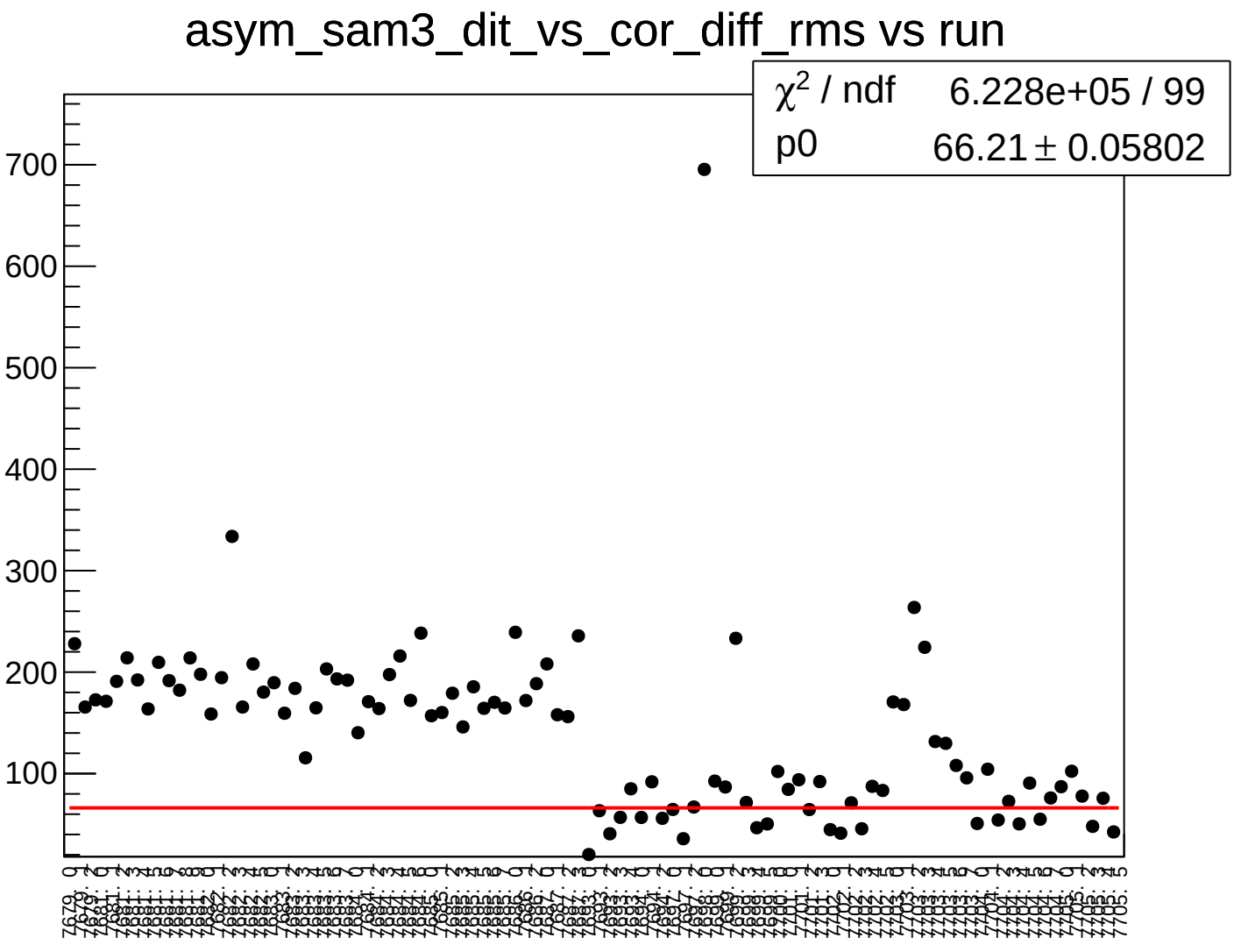

asym_sam3_rms vs run
χ² / ndf 1.718e+04 / 99
p0 3205 ± 2.32
3800
3600
3400
3200
3000
2800
2600

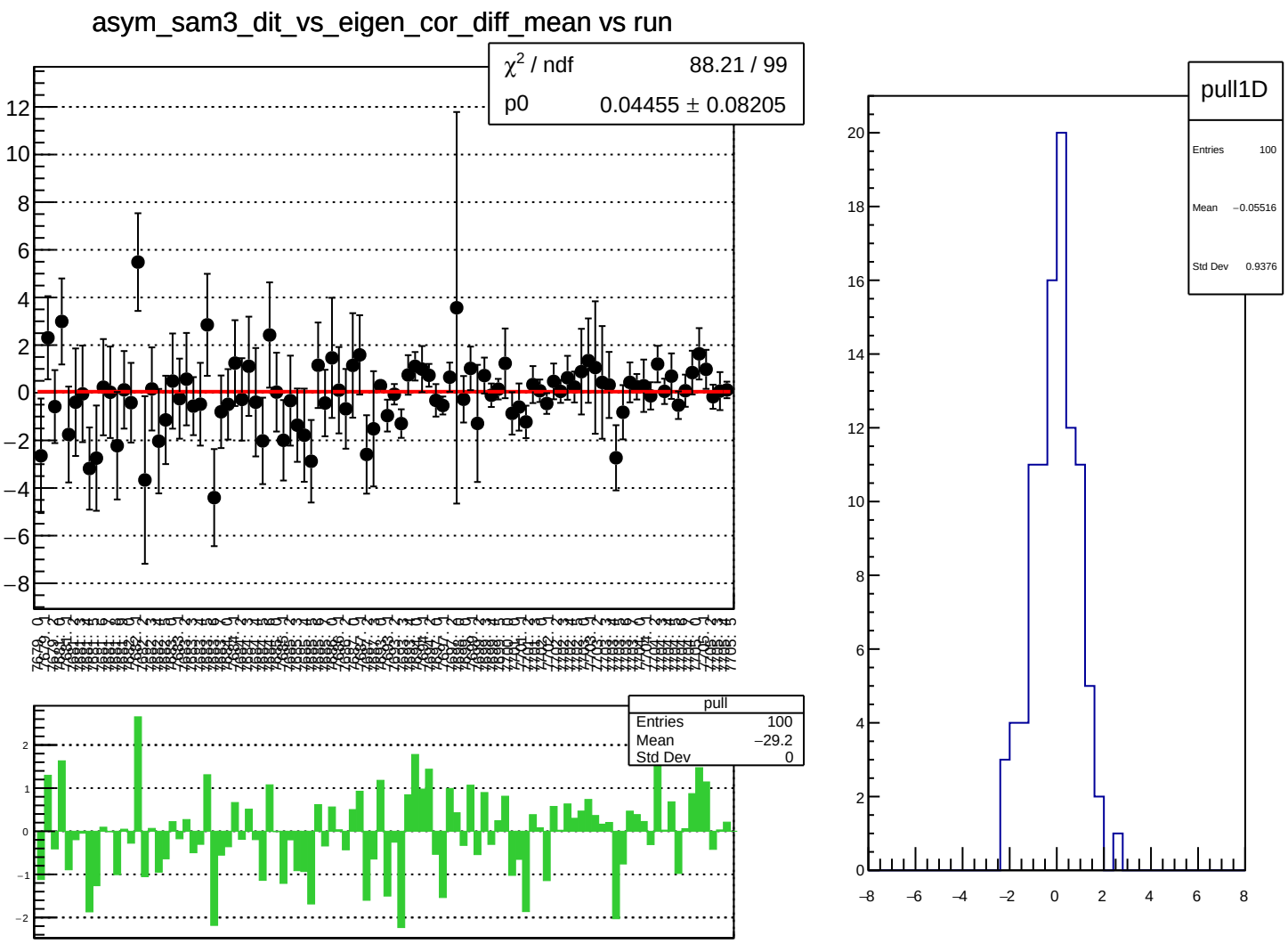

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 108.3 / 99
p0 −3.136e−13 ± 1.458e−13
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 100
Mean 15.43
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

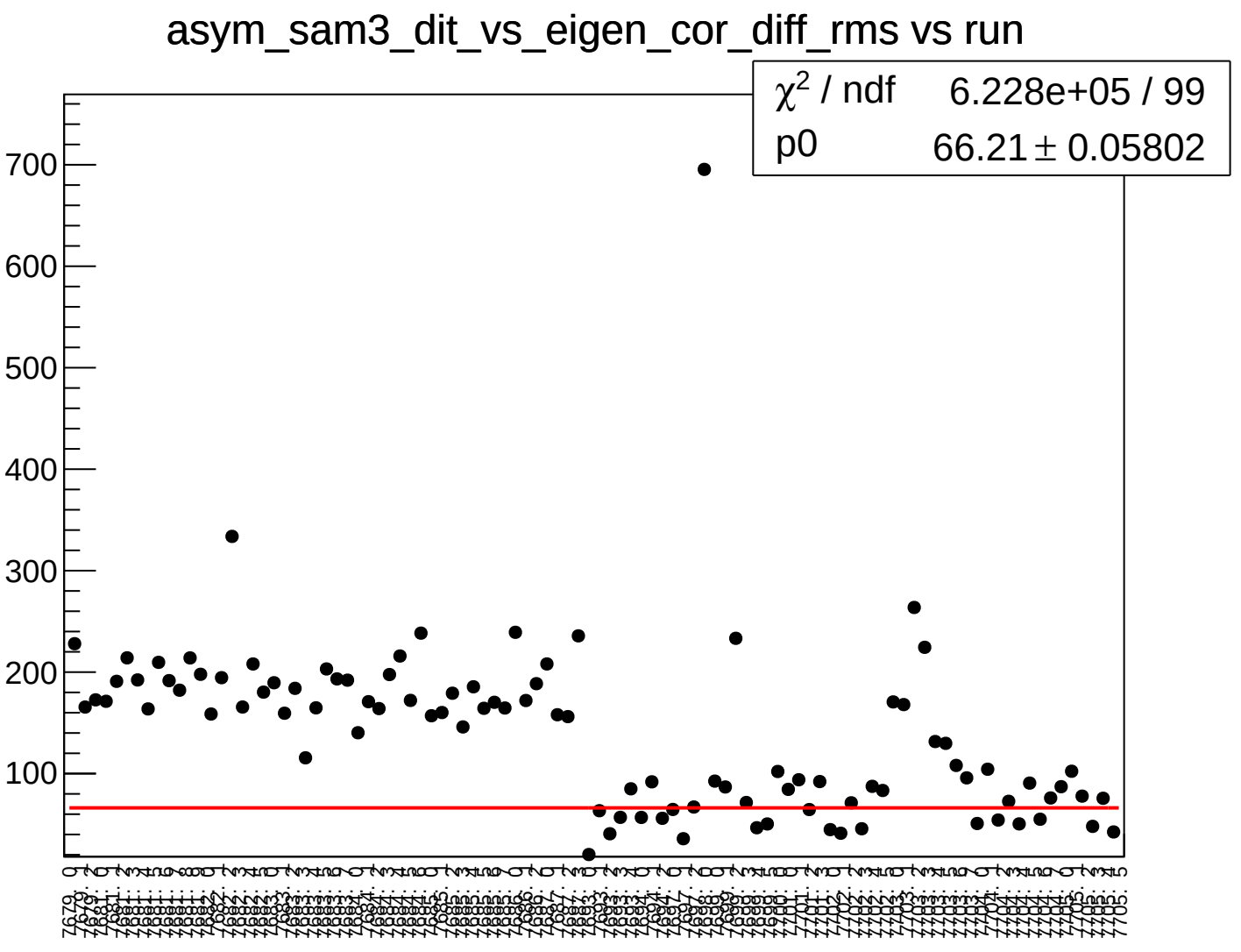

pull1D
Entries 100
Mean −0.1304
Std Dev 1.033
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

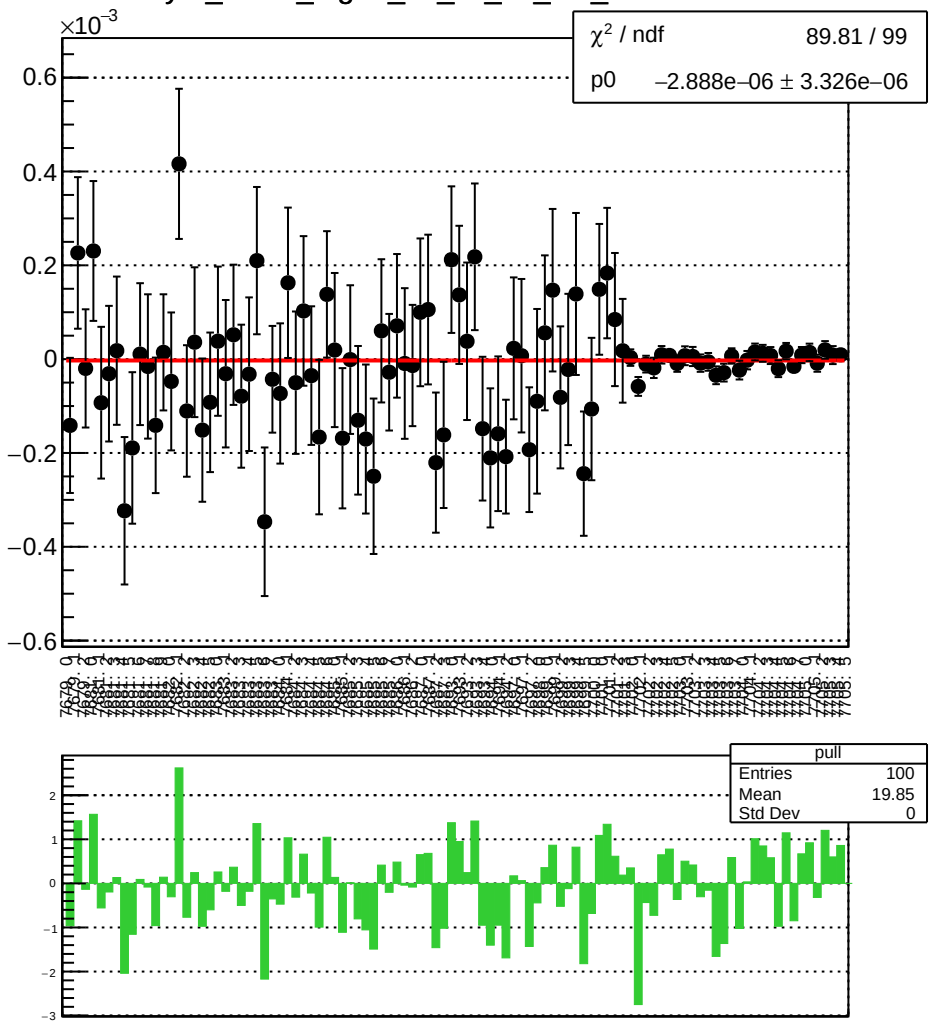

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 1.329e+06 / 99
p0 7.965e−11 ± 1.031e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

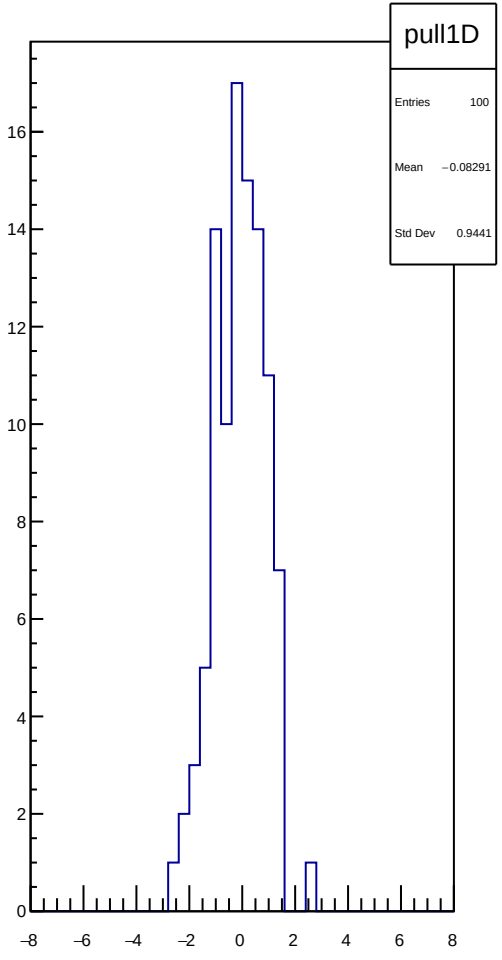

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 88.21 / 99
p0 0.04455 ± 0.08205
pull
Entries 100
Mean −29.2
Std Dev 0
pull1D
Entries 100
Mean −0.05516
Std Dev 0.9376

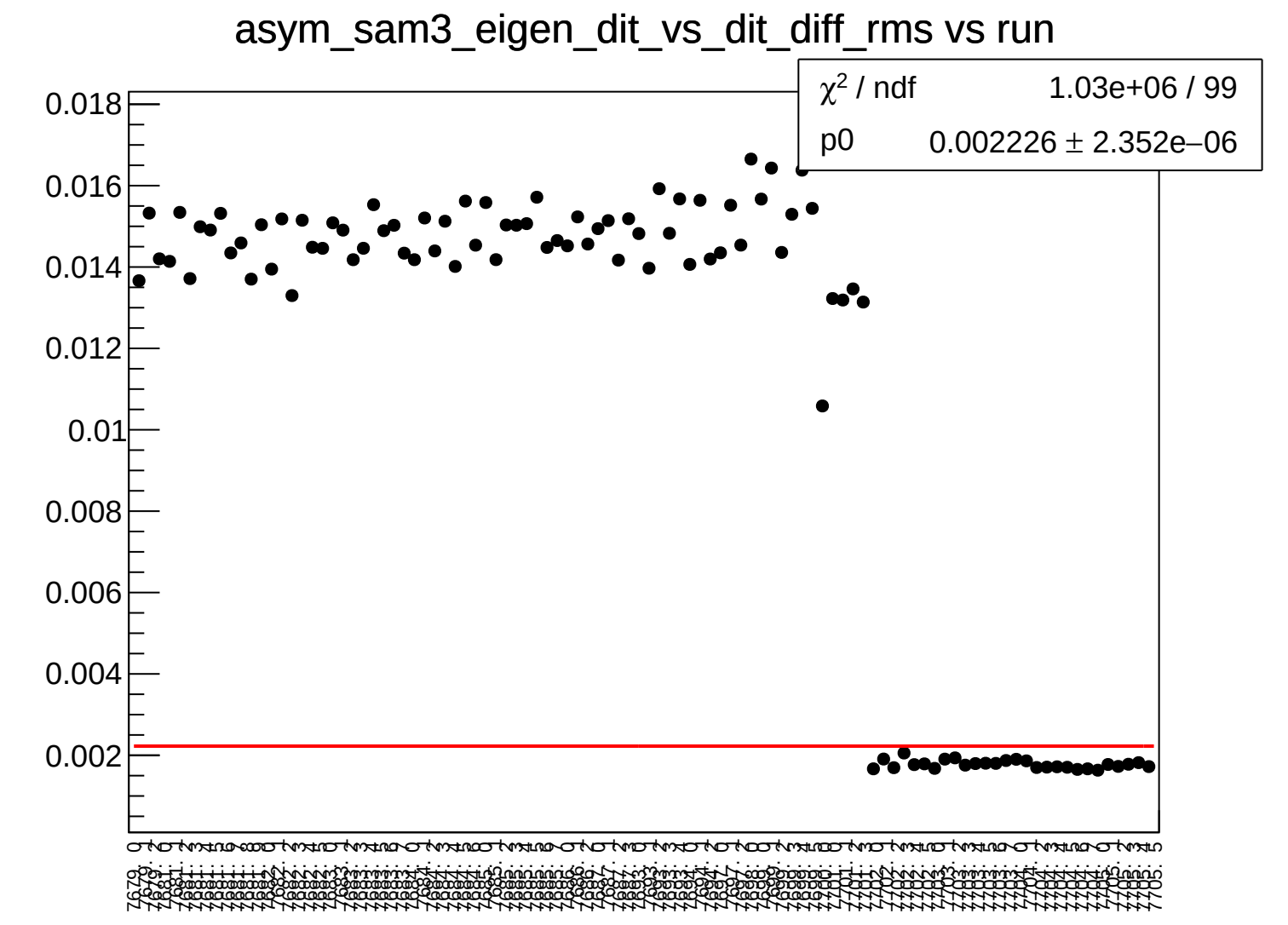

asym_sam3_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.228e+05 / 99
p0 66.21 ± 0.05802
700
600
500
400
300
200
100

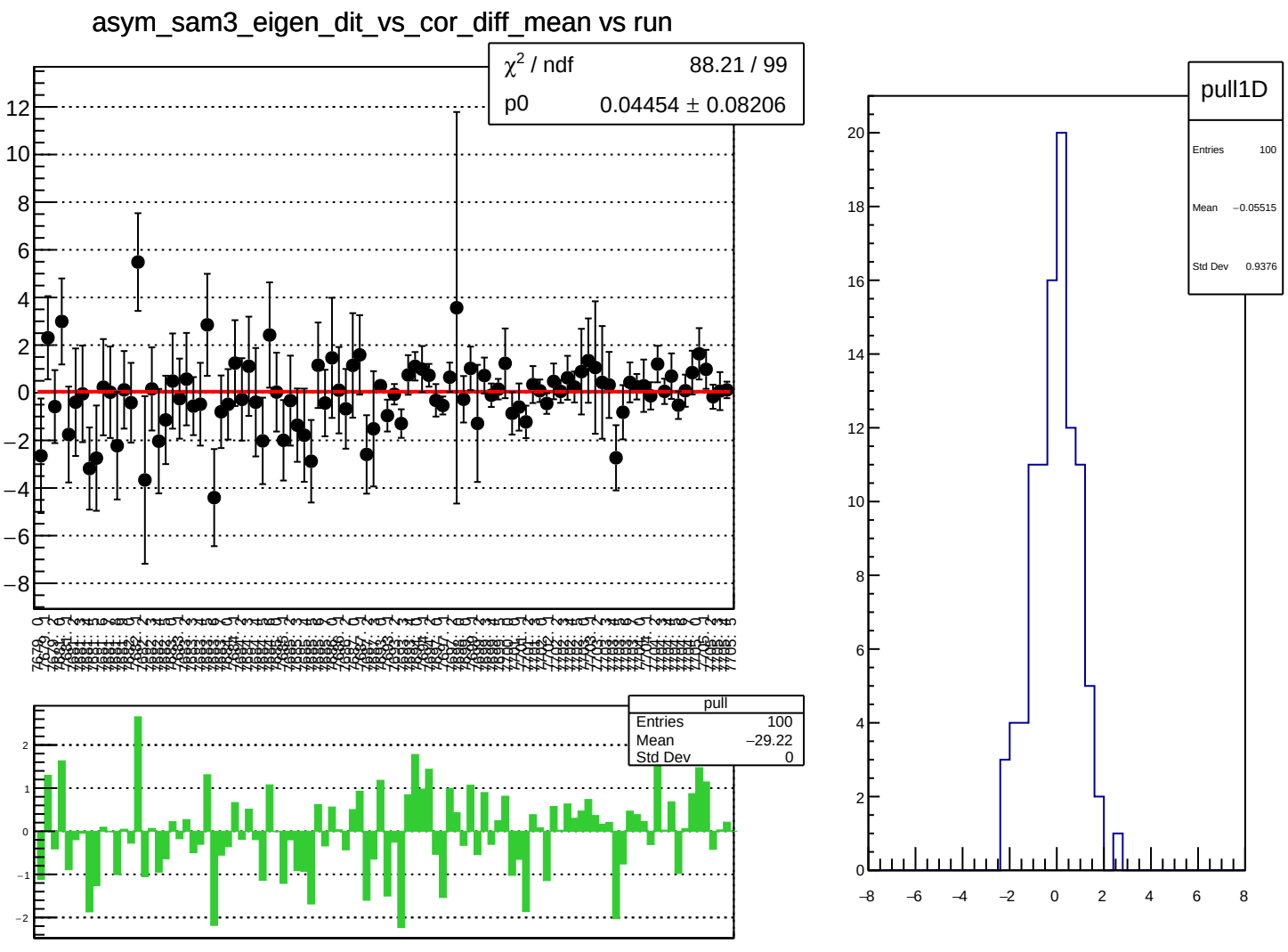

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.21 / 99
p0 0.04455 ± 0.08205
pull
Entries 100
Mean −29.2
Std Dev 0
pull1D
Entries 100
Mean −0.05516
Std Dev 0.9376

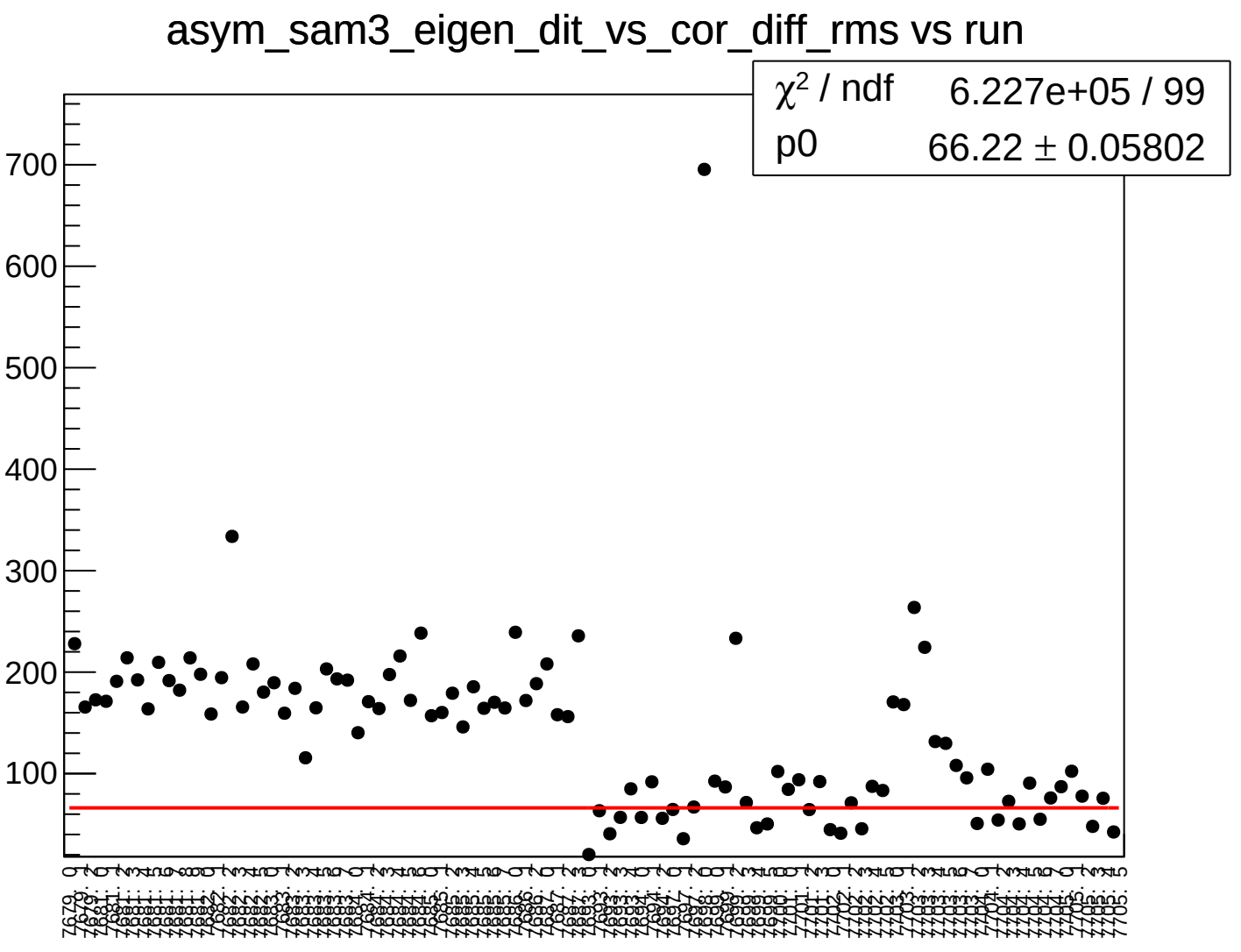

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 6.228e+05 / 99
p0 66.21 ± 0.05802
700
600
500
400
300
200
100

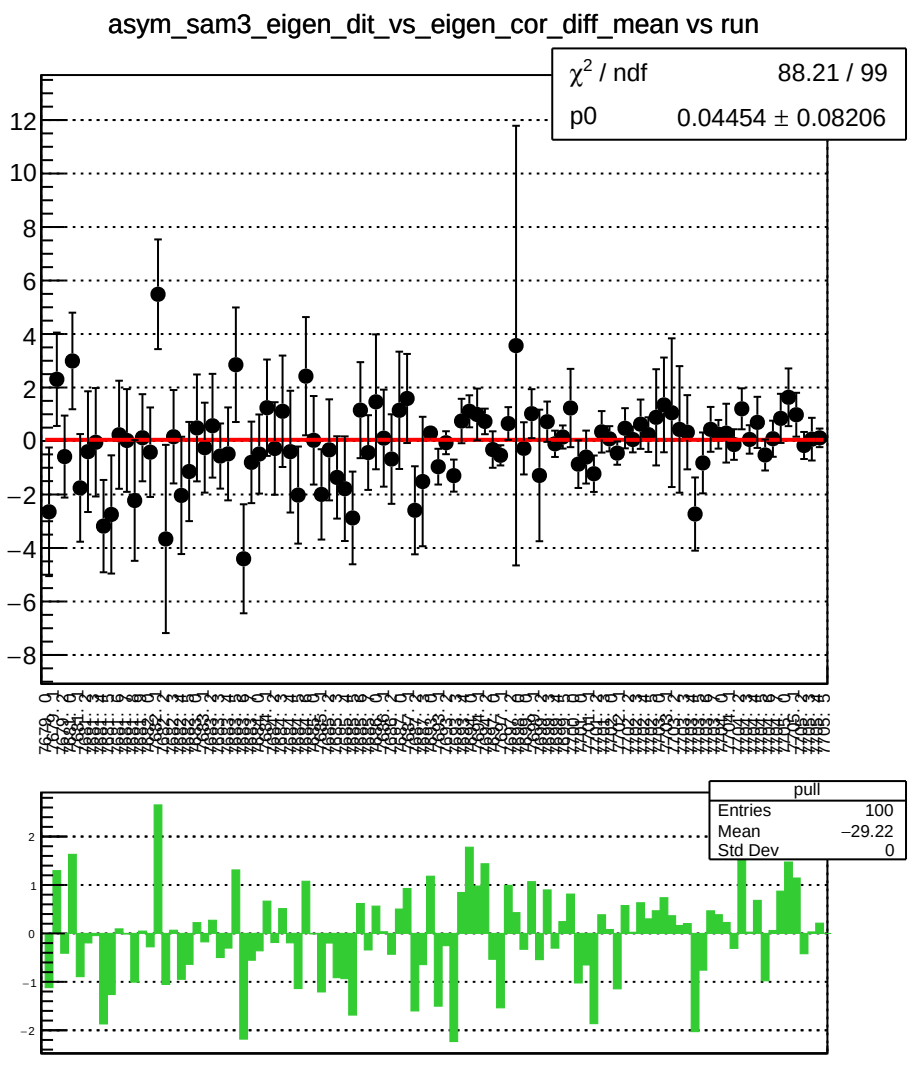

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.81 / 99
p0 −2.888e−06 ± 3.326e−06
pull
Entries 100
Mean 19.85
Std Dev 0

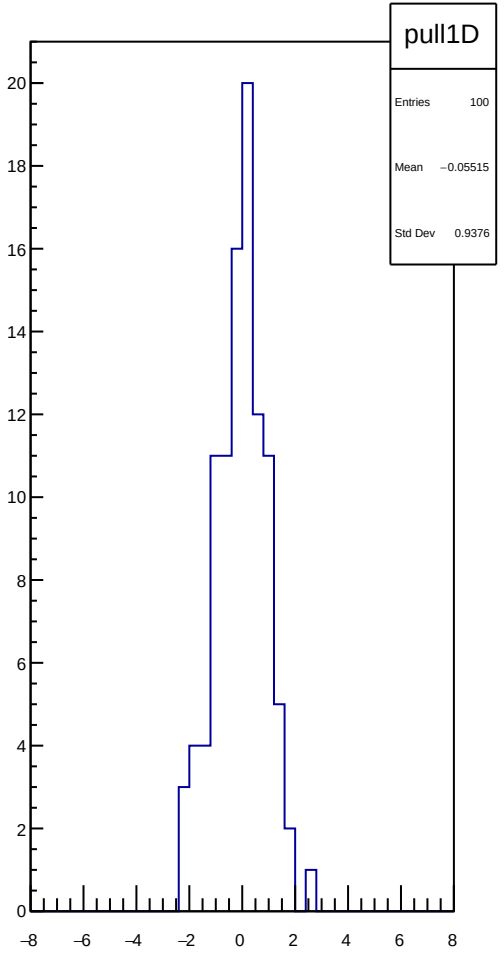

pull1D
Entries 100
Mean −0.08291
Std Dev 0.9441

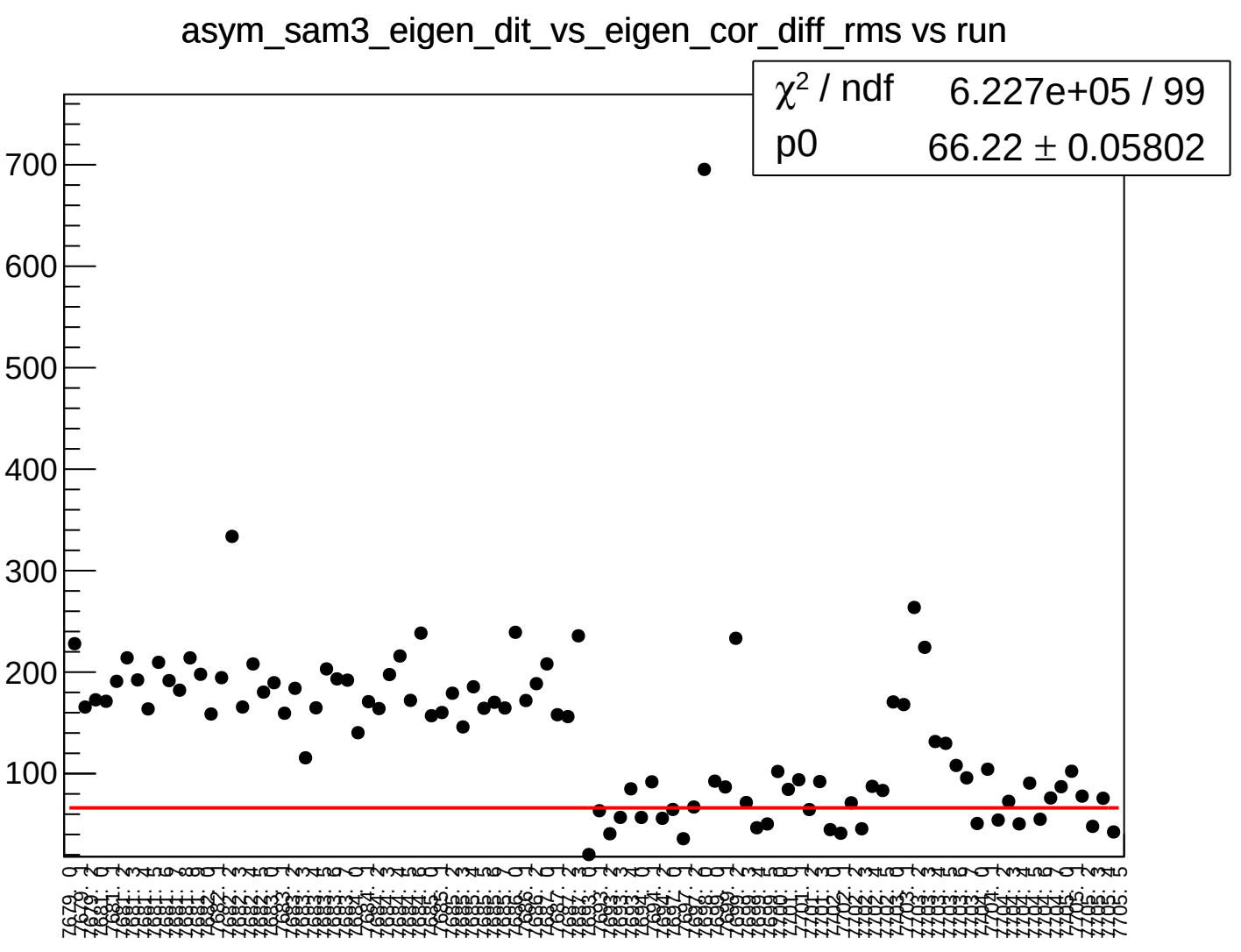

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.03e+06 / 99
p0 0.002226 ± 2.352e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

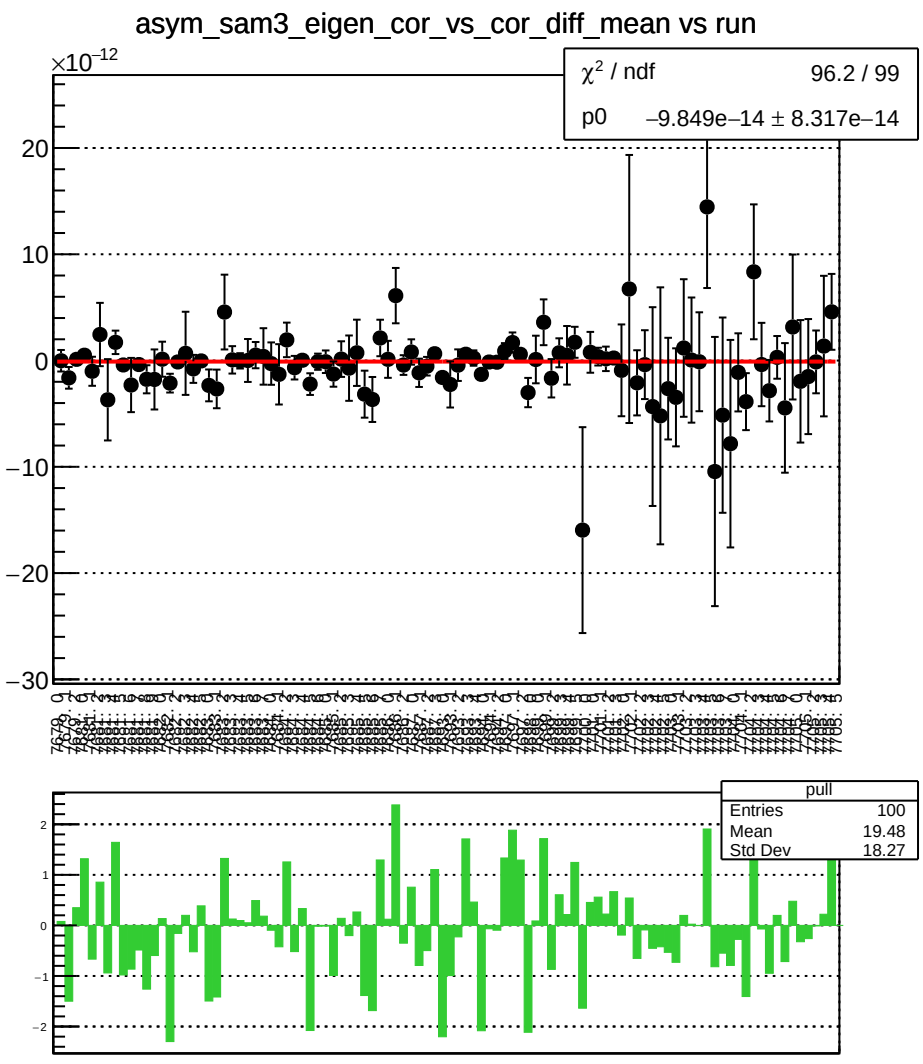

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.21 / 99
p0 0.04454 ± 0.08206
pull
Entries 100
Mean −29.22
Std Dev 0
pull1D
Entries 100
Mean −0.05515
Std Dev 0.9376

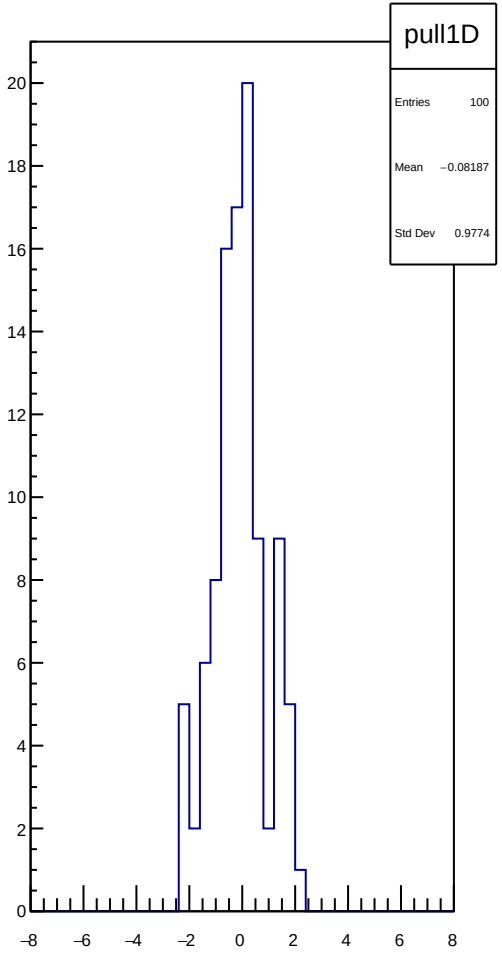

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.227e+05 / 99
p0 66.22 ± 0.05802
700
600
500
400
300
200
100

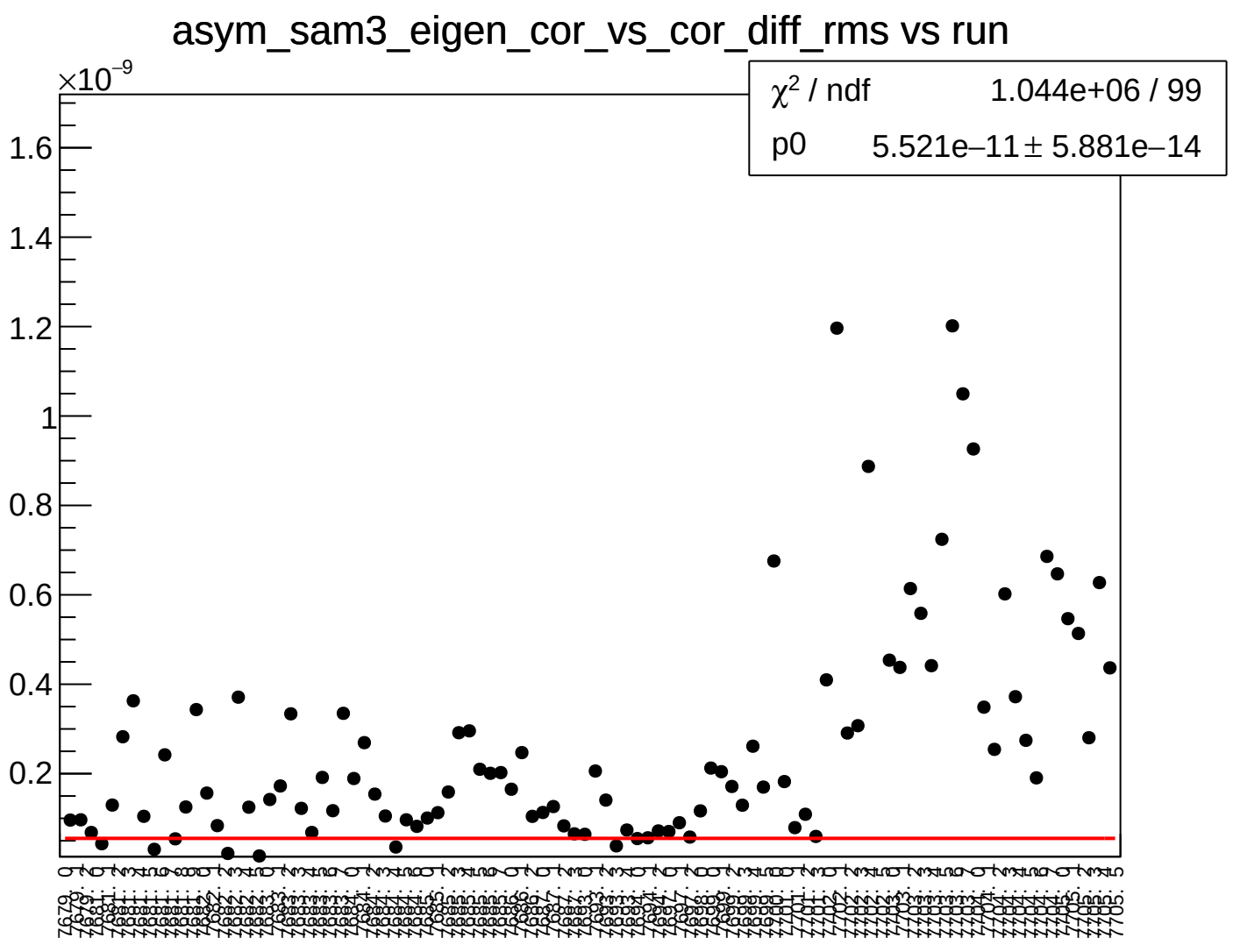

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.21 / 99
p0 0.04454 ± 0.08206
pull
Entries 100
Mean −29.22
Std Dev 0

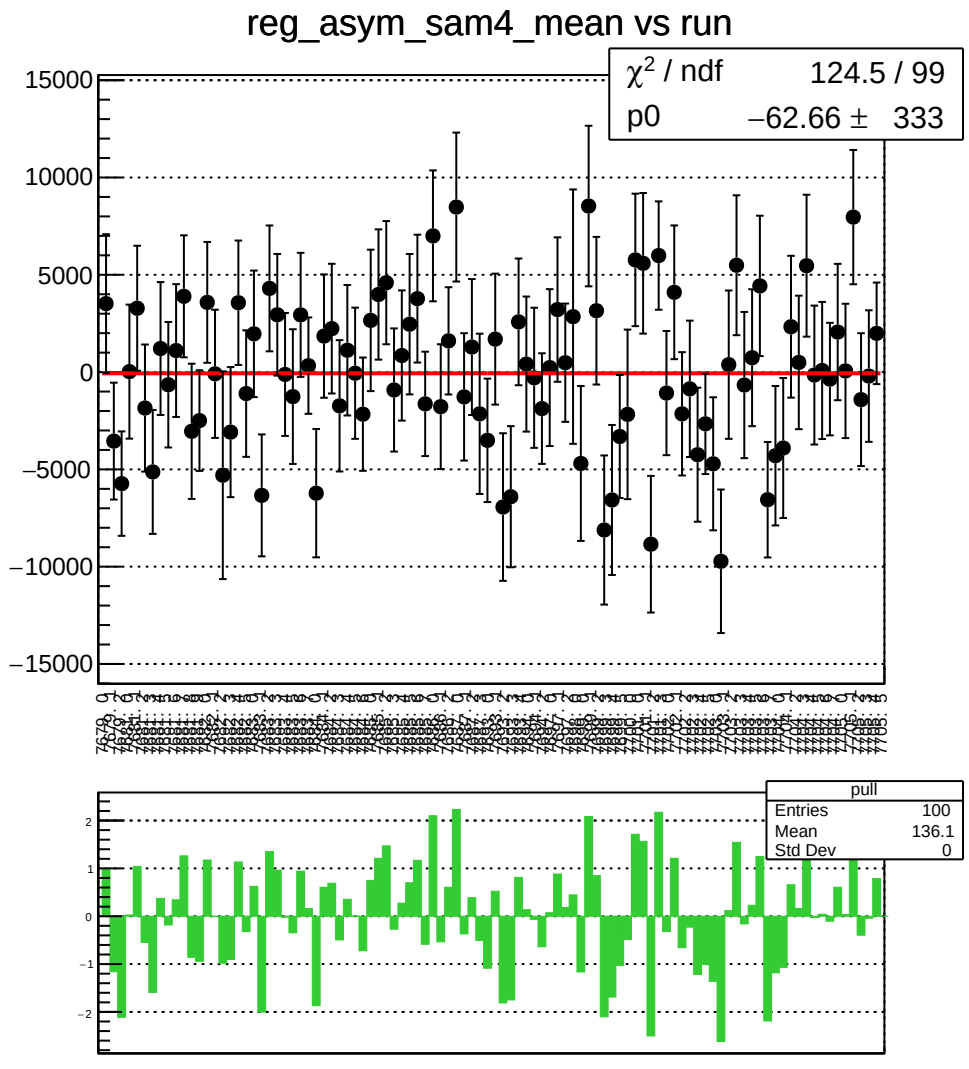

pull1D
Entries 100
Mean −0.05515
Std Dev 0.9376

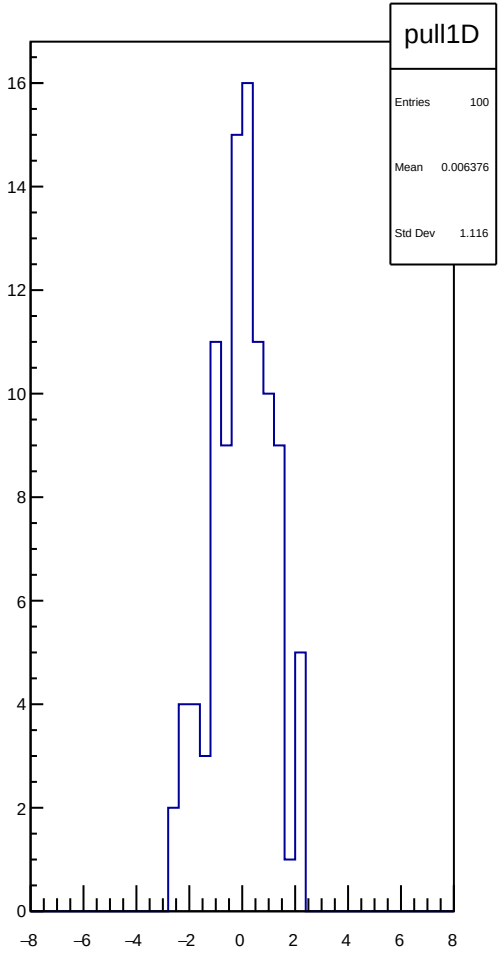

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.227e+05 / 99
p0 66.22 ± 0.05802
700
600
500
400
300
200
100

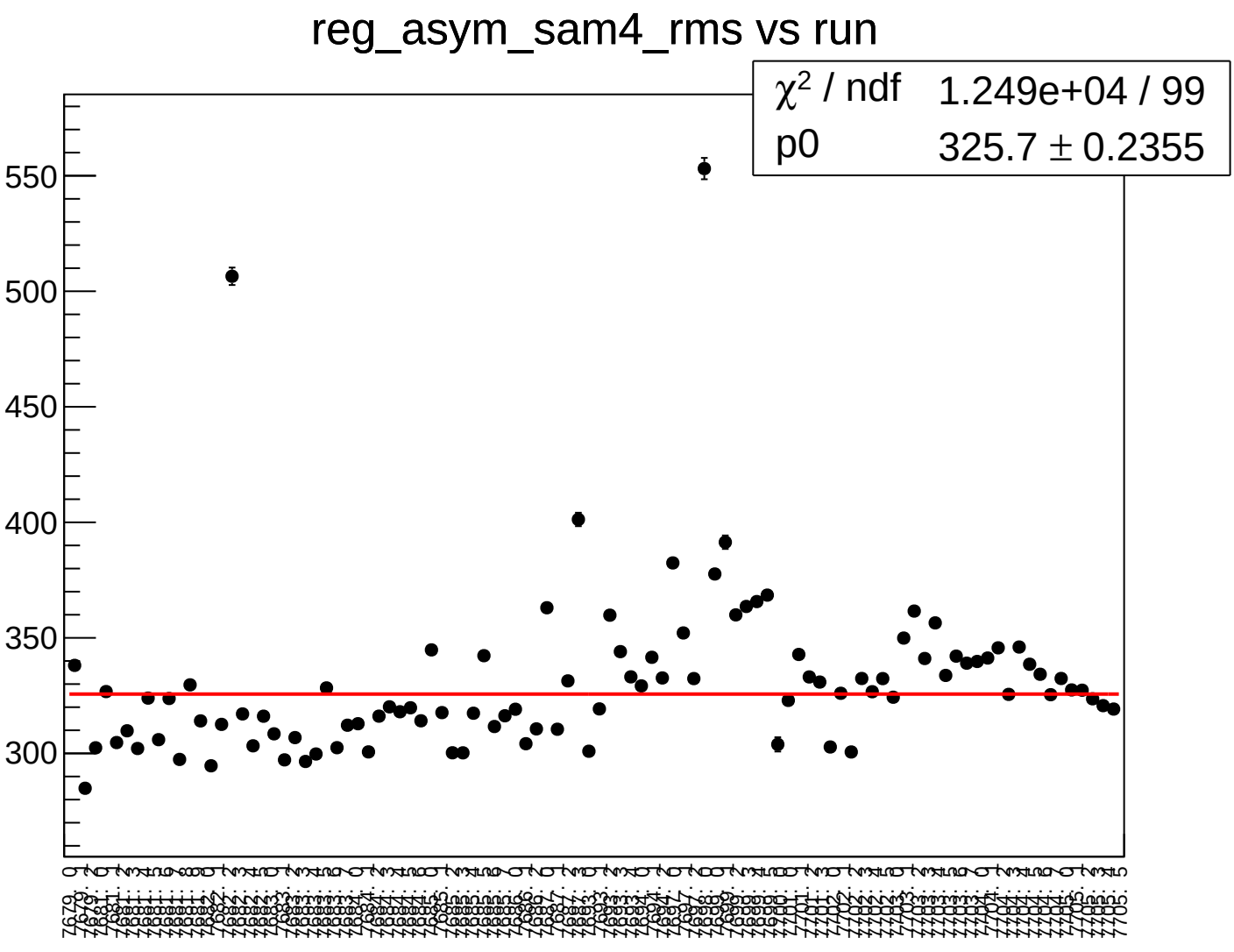

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.2 / 99
p0 −9.849e−14 ± 8.317e−14
pull
Entries 100
Mean 19.48
Std Dev 18.27

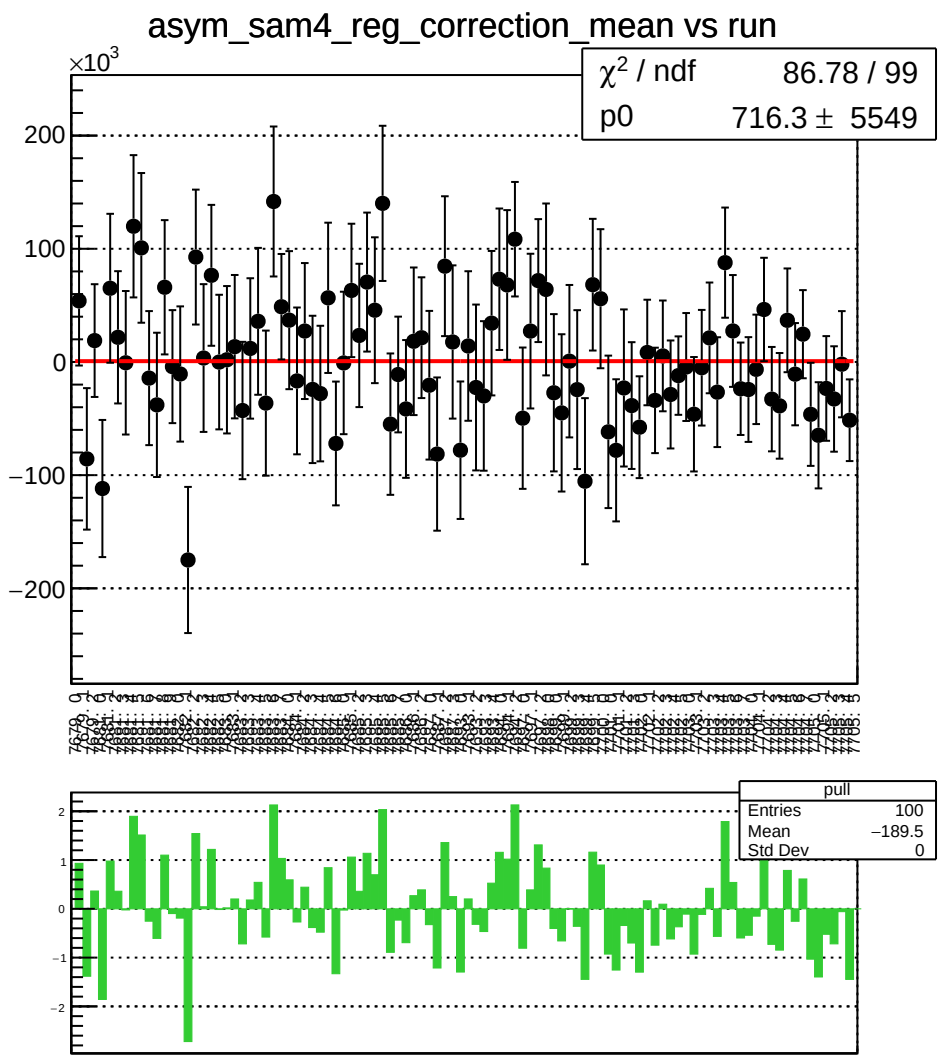

pull1D
Entries 100
Mean −0.08187
Std Dev 0.9774

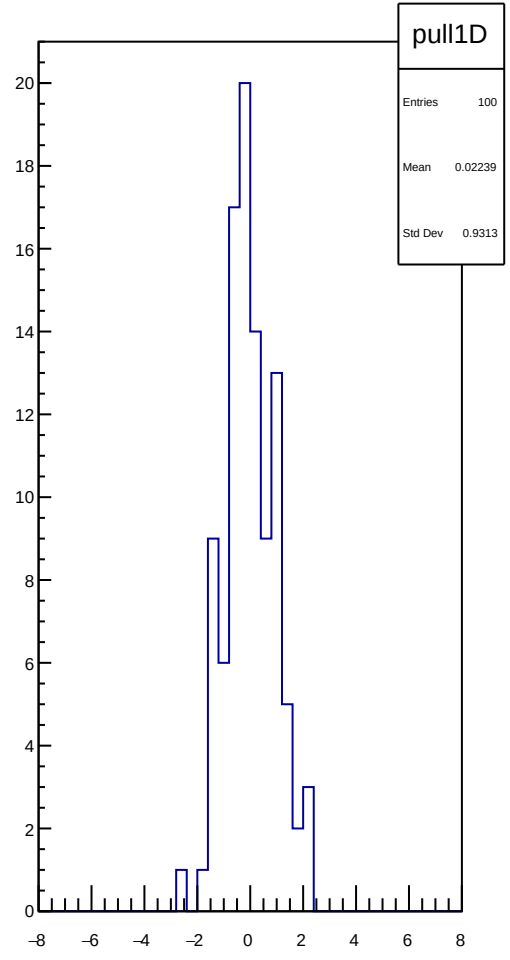

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.044e+06 / 99
p0 5.521e−11 ± 5.881e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

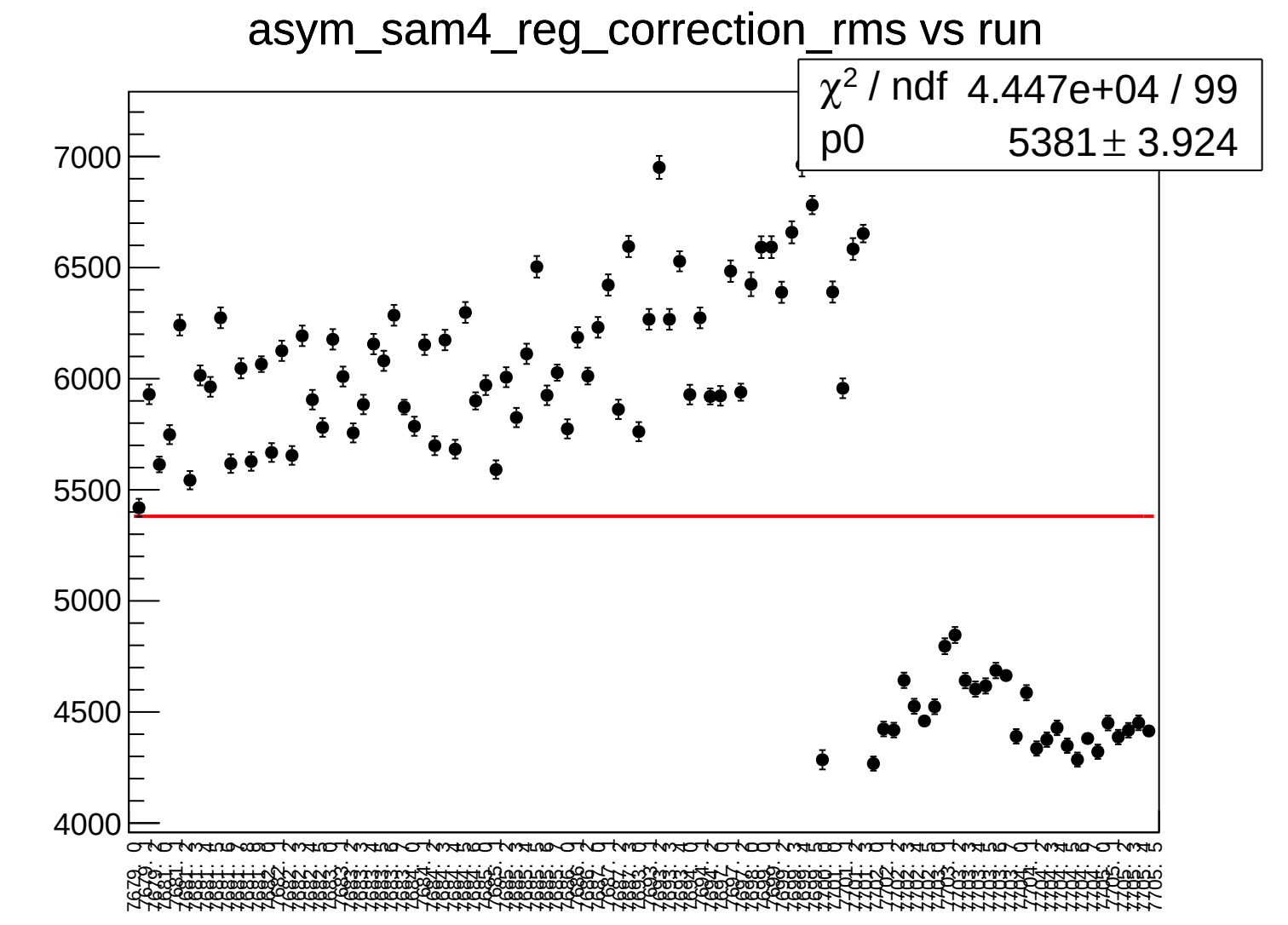

reg_asym_sam4_mean vs run
χ² / ndf 124.5 / 99
p0 −62.66 ± 333
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 100
Mean 136.1
Std Dev 0
2
1
0
−1
−2

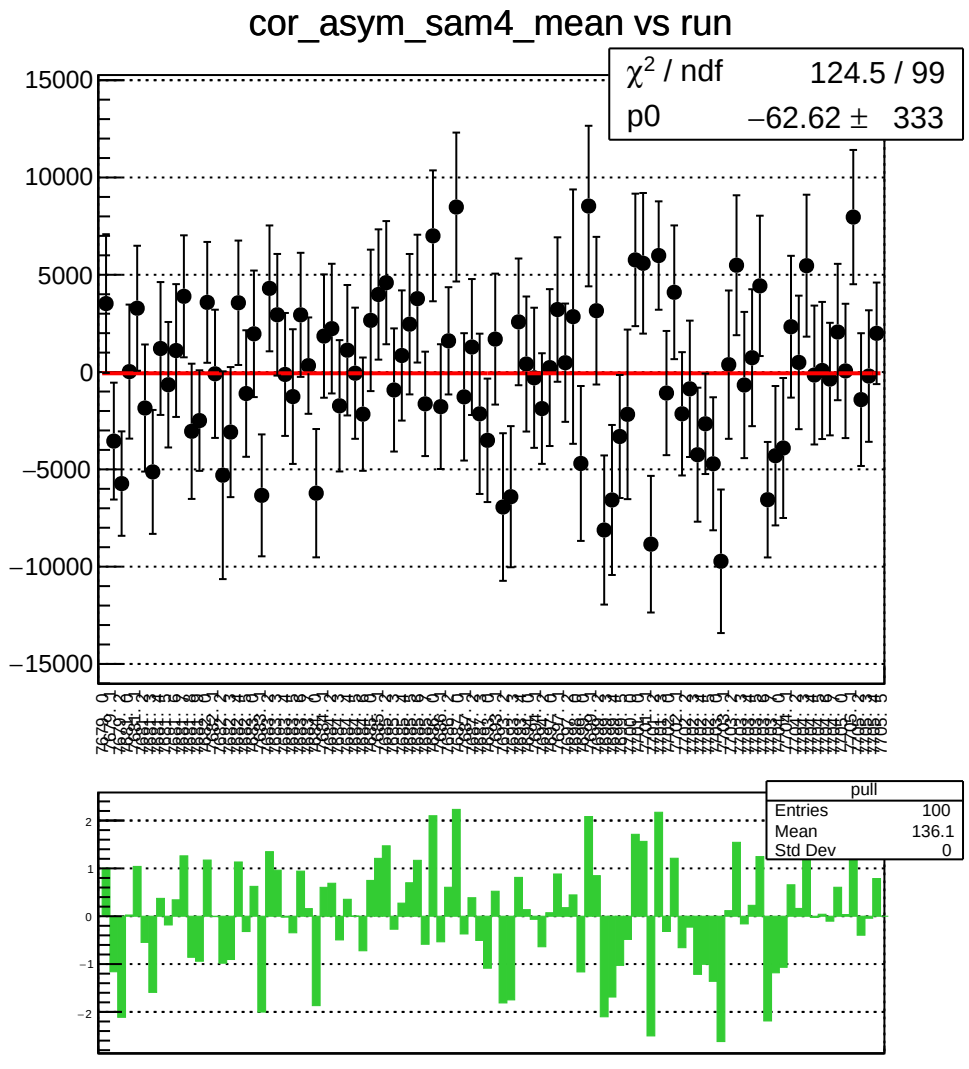

pull1D
Entries 100
Mean 0.006376
Std Dev 1.116
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

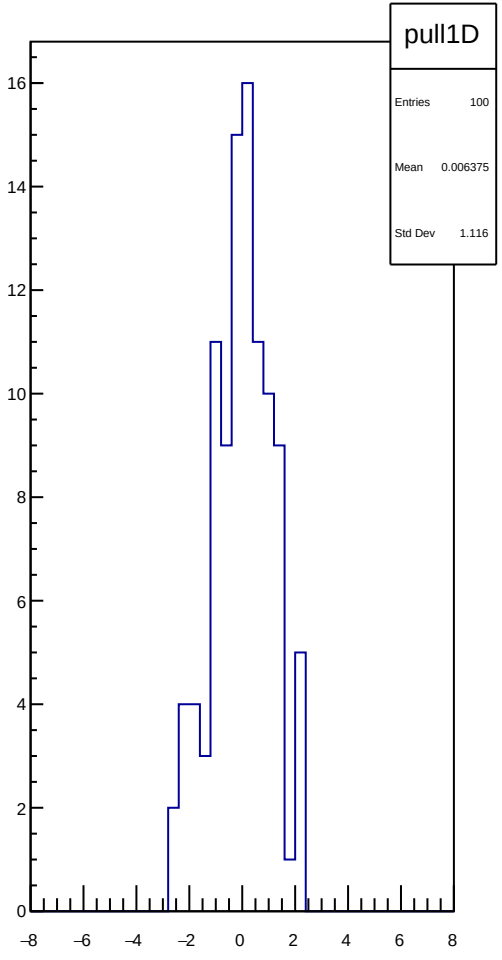

reg_asym_sam4_rms vs run
χ² / ndf 1.249e+04 / 99
p0 325.7 ± 0.2355
550
500
450
400
350
300

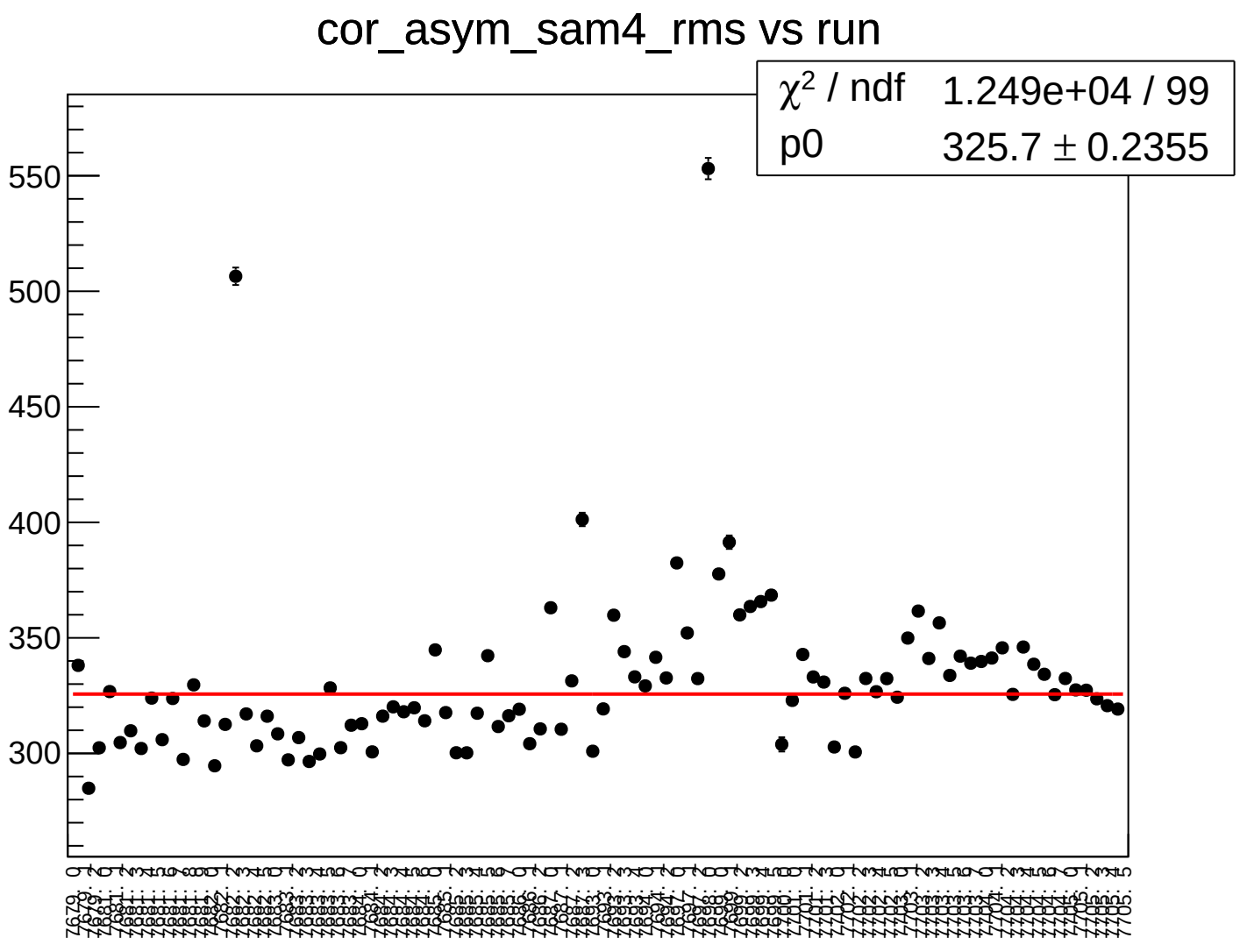

asym_sam4_reg_correction_mean vs run
×10^3
χ² / ndf 86.78 / 99
p0 716.3 ± 5549
200
100
0
−100
−200
pull
Entries 100
Mean −189.5
Std Dev 0
2
1
0
−1
−2

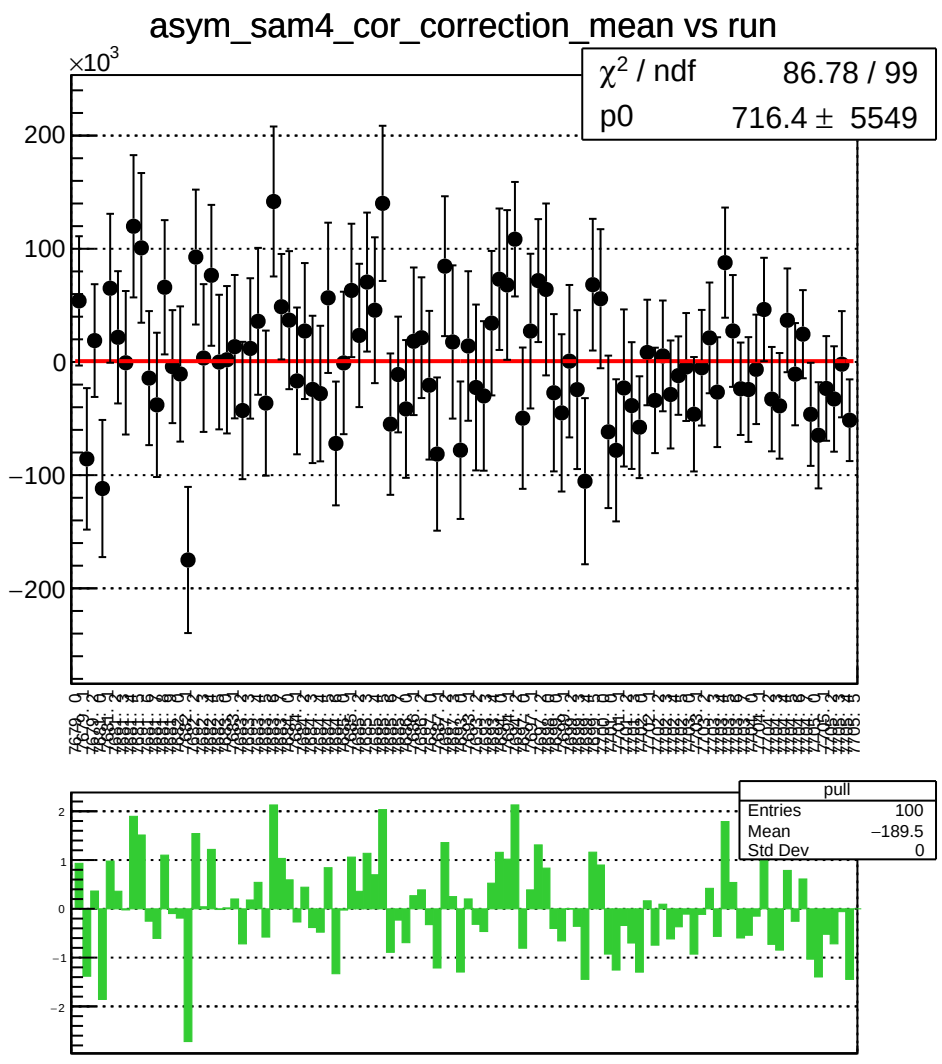

pull1D
Entries 100
Mean 0.02239
Std Dev 0.9313
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

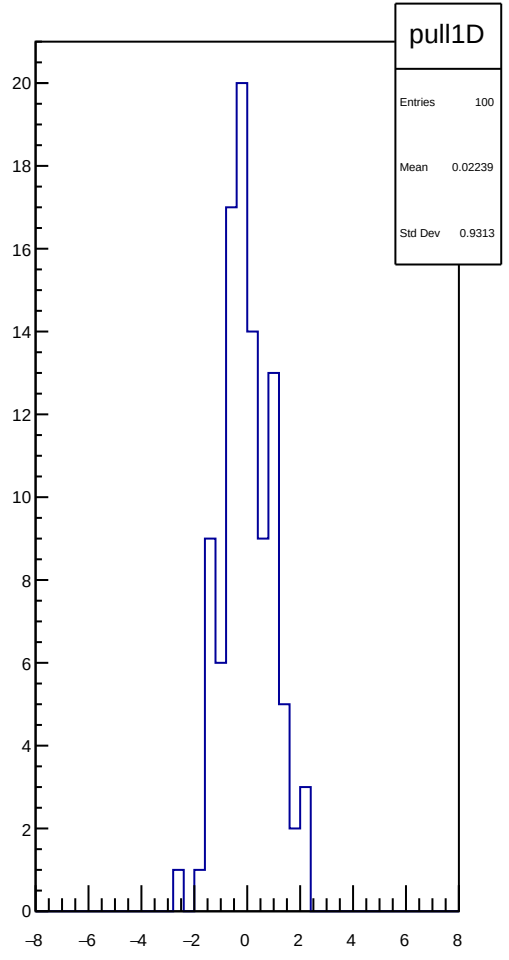

asym_sam4_reg_correction_rms vs run
χ² / ndf 4.447e+04 / 99
p0 5381 ± 3.924
7000
6500
6000
5500
5000
4500
4000

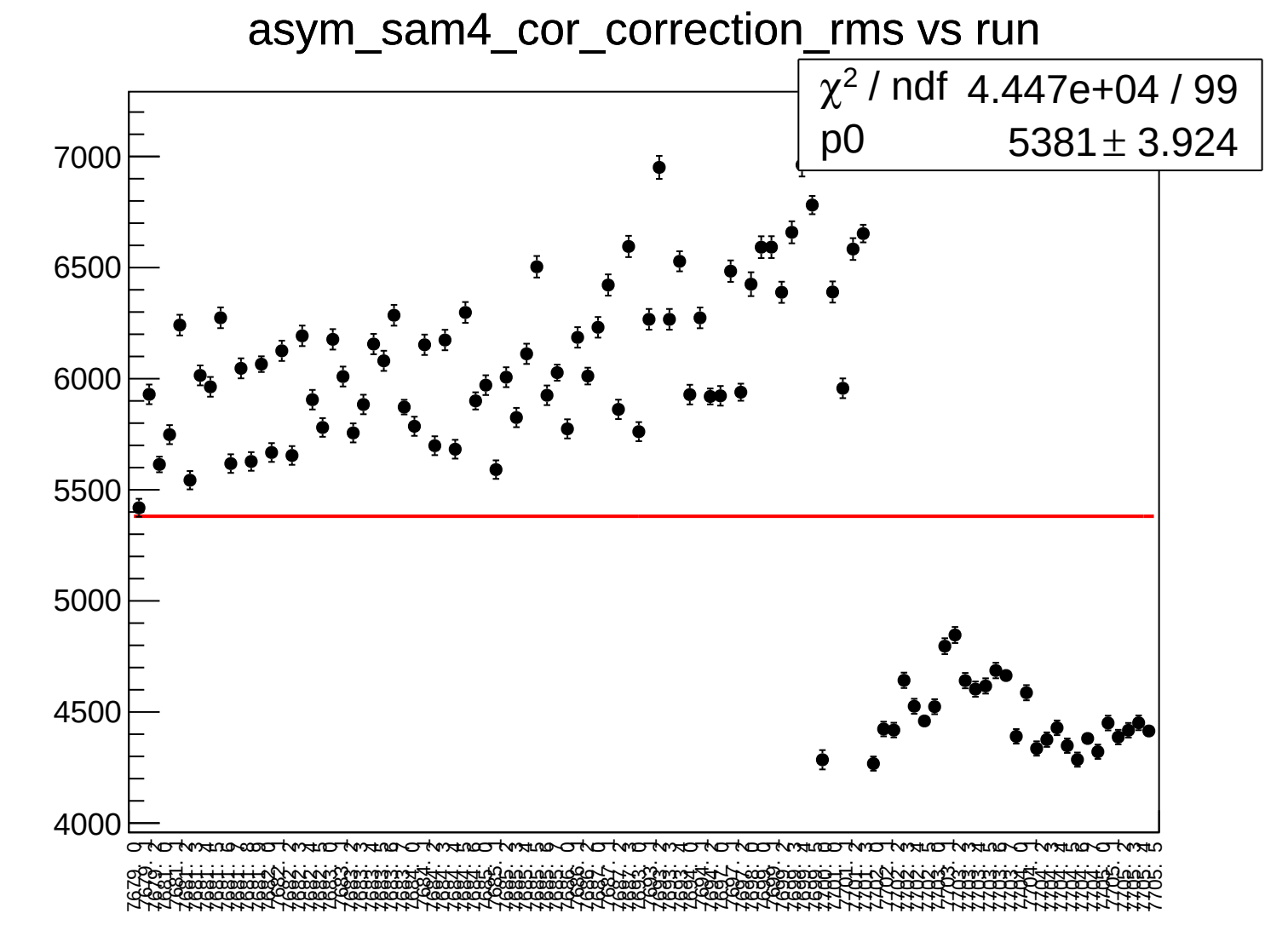

cor_asym_sam4_mean vs run
χ² / ndf 124.5 / 99
p0 −62.62 ± 333
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 100
Mean 136.1
Std Dev 0
2
1
0
−1
−2

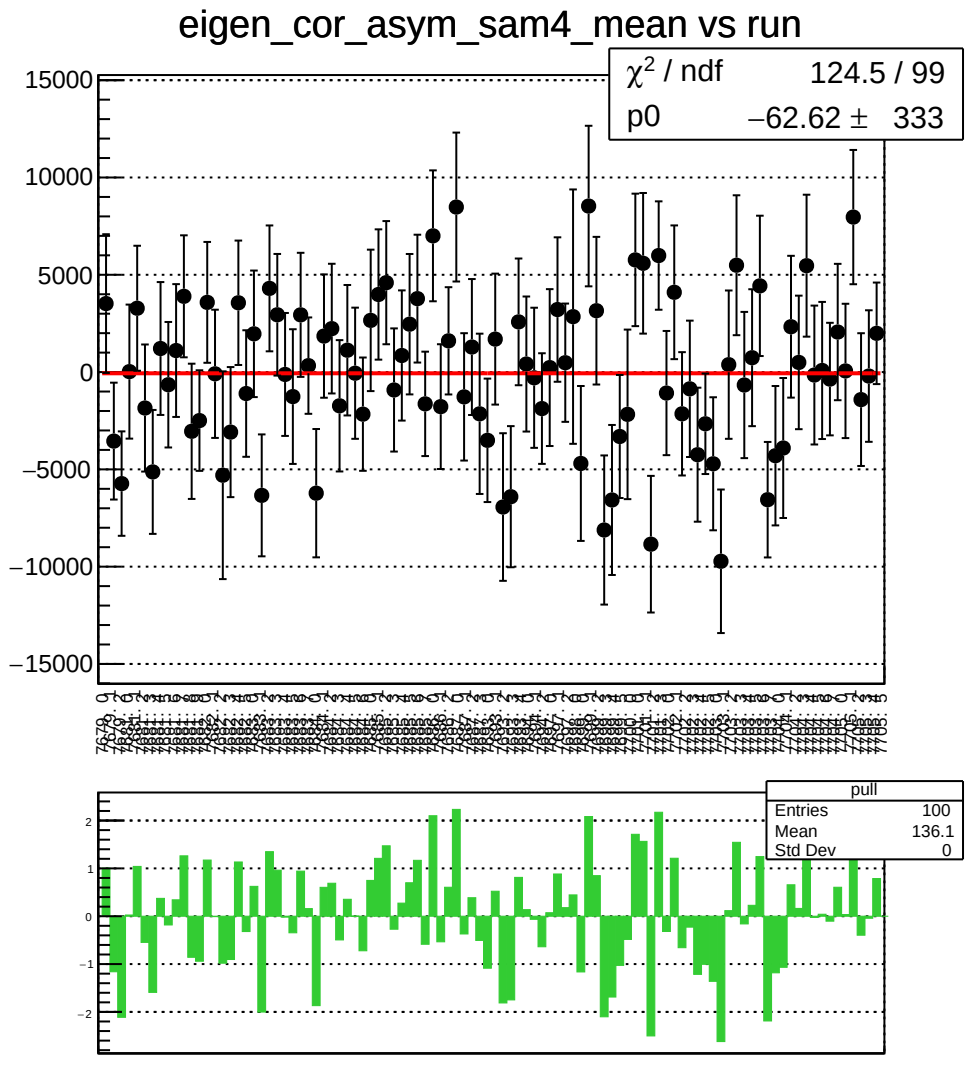

pull1D
Entries 100
Mean 0.006375
Std Dev 1.116
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

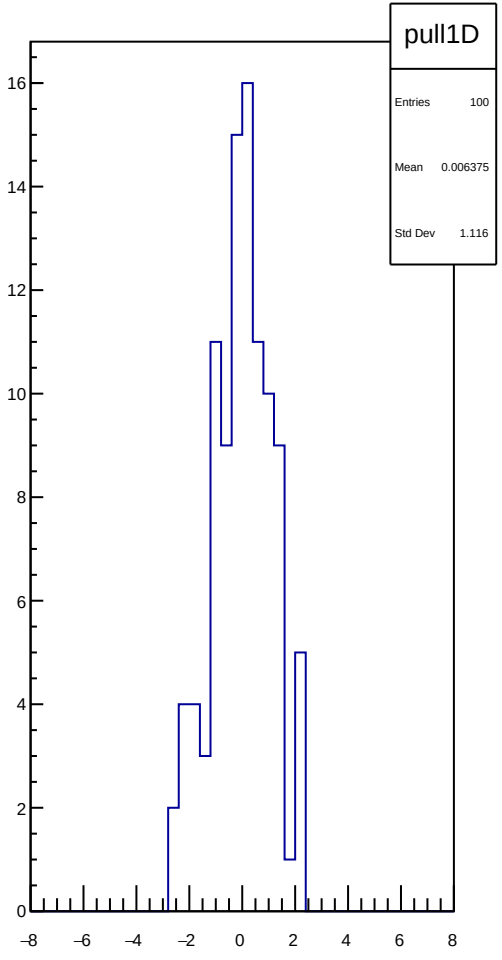

cor_asym_sam4_rms vs run
χ² / ndf 1.249e+04 / 99
p0 325.7 ± 0.2355
550
500
450
400
350
300

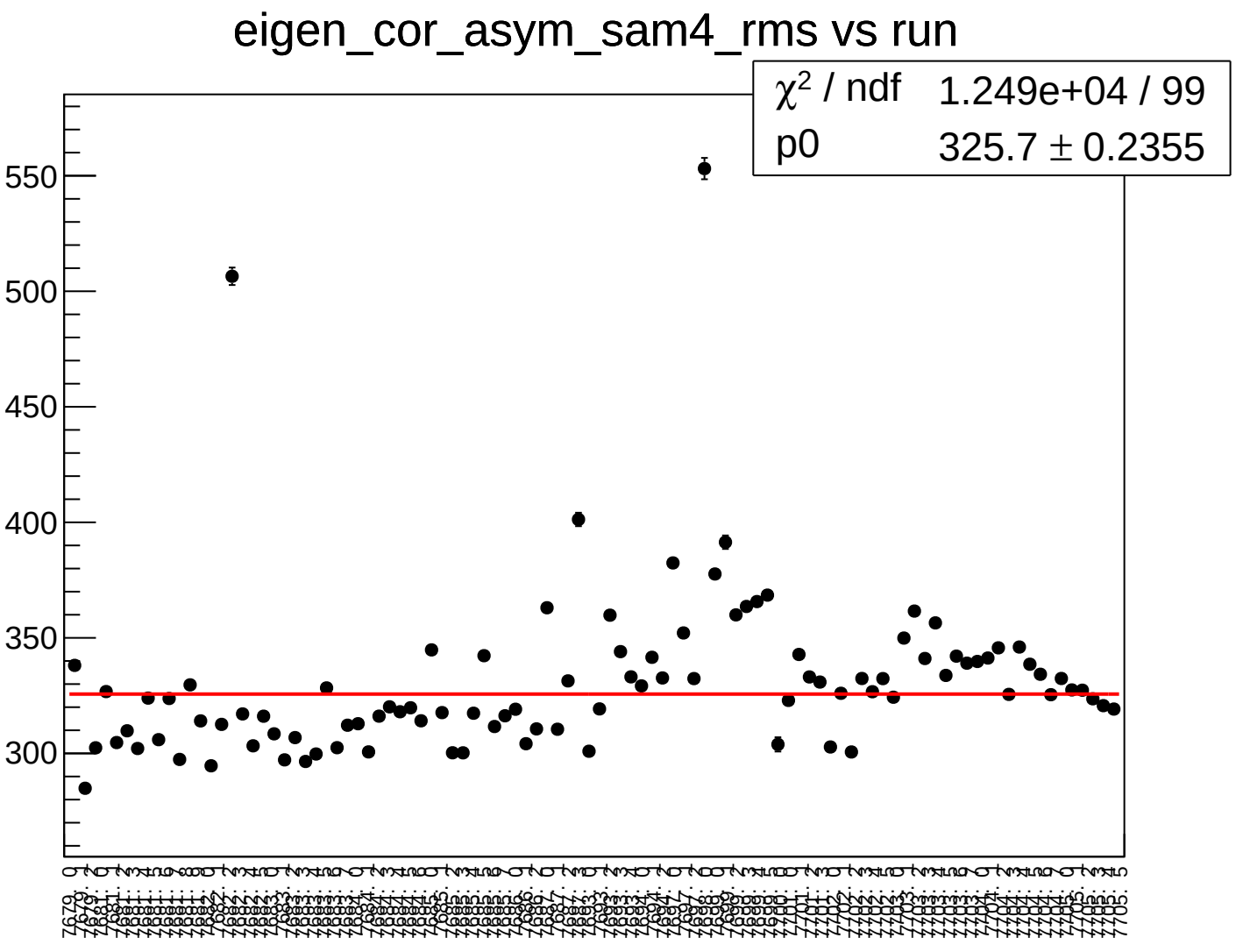

asym_sam4_cor_correction_mean vs run
×10^3
χ^2 / ndf 86.78 / 99
p0 716.4 ± 5549
200
100
0
−100
−200
pull
Entries 100
Mean −189.5
Std Dev 0
2
1
0
−1
−2

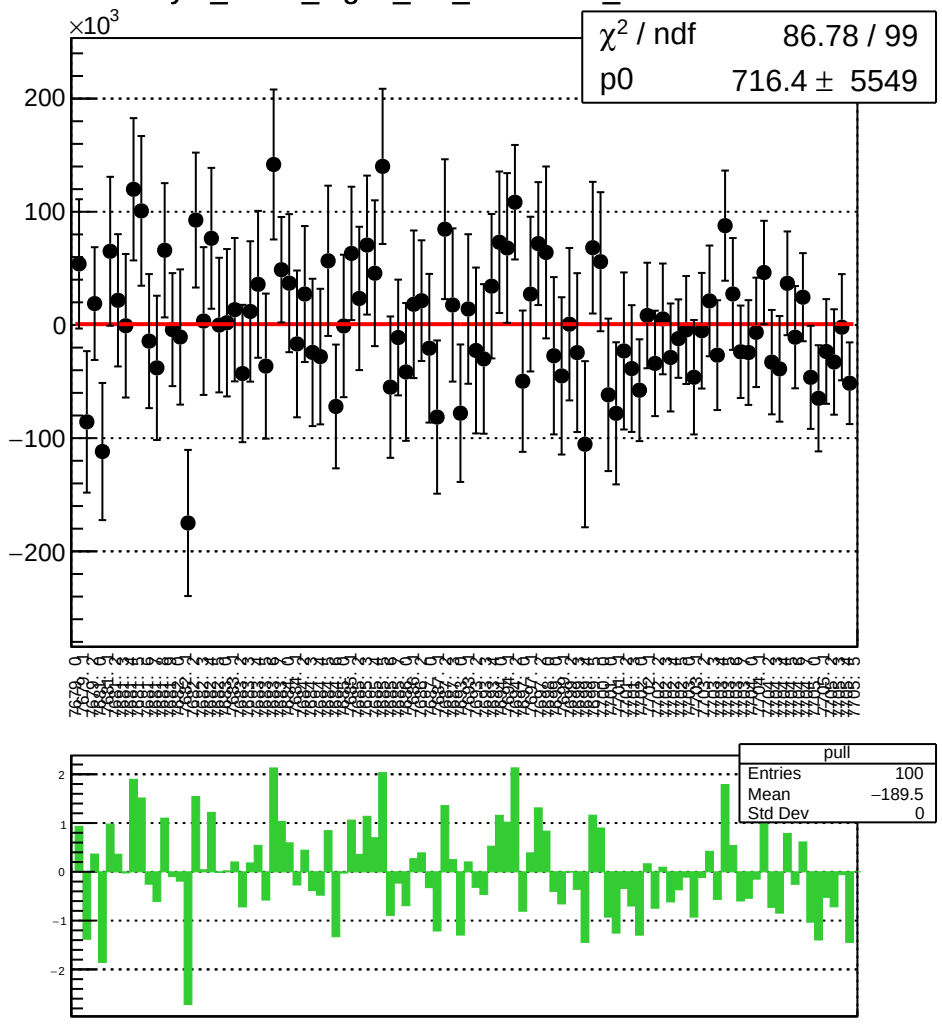

pull1D
Entries 100
Mean 0.02239
Std Dev 0.9313
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

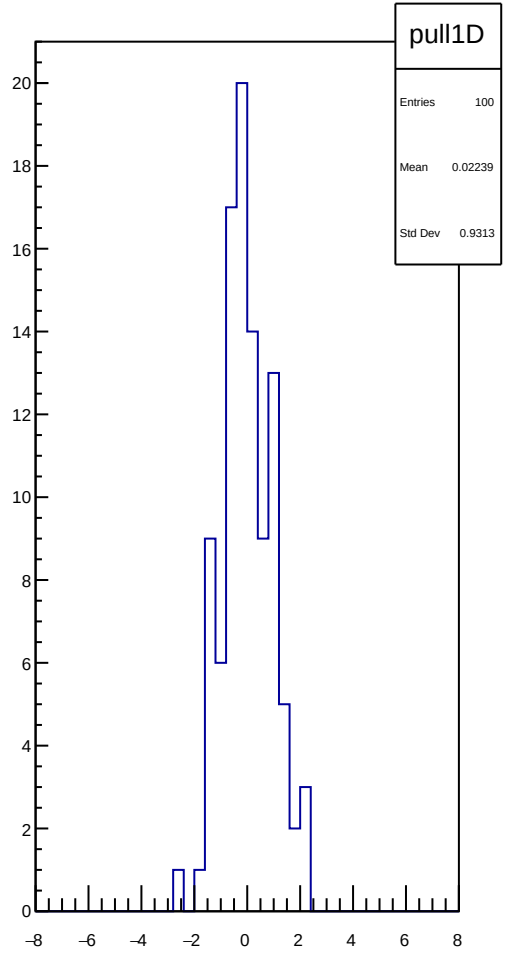

asym_sam4_cor_correction_rms vs run
χ² / ndf 4.447e+04 / 99
p0 5381 ± 3.924
7000
6500
6000
5500
5000
4500
4000

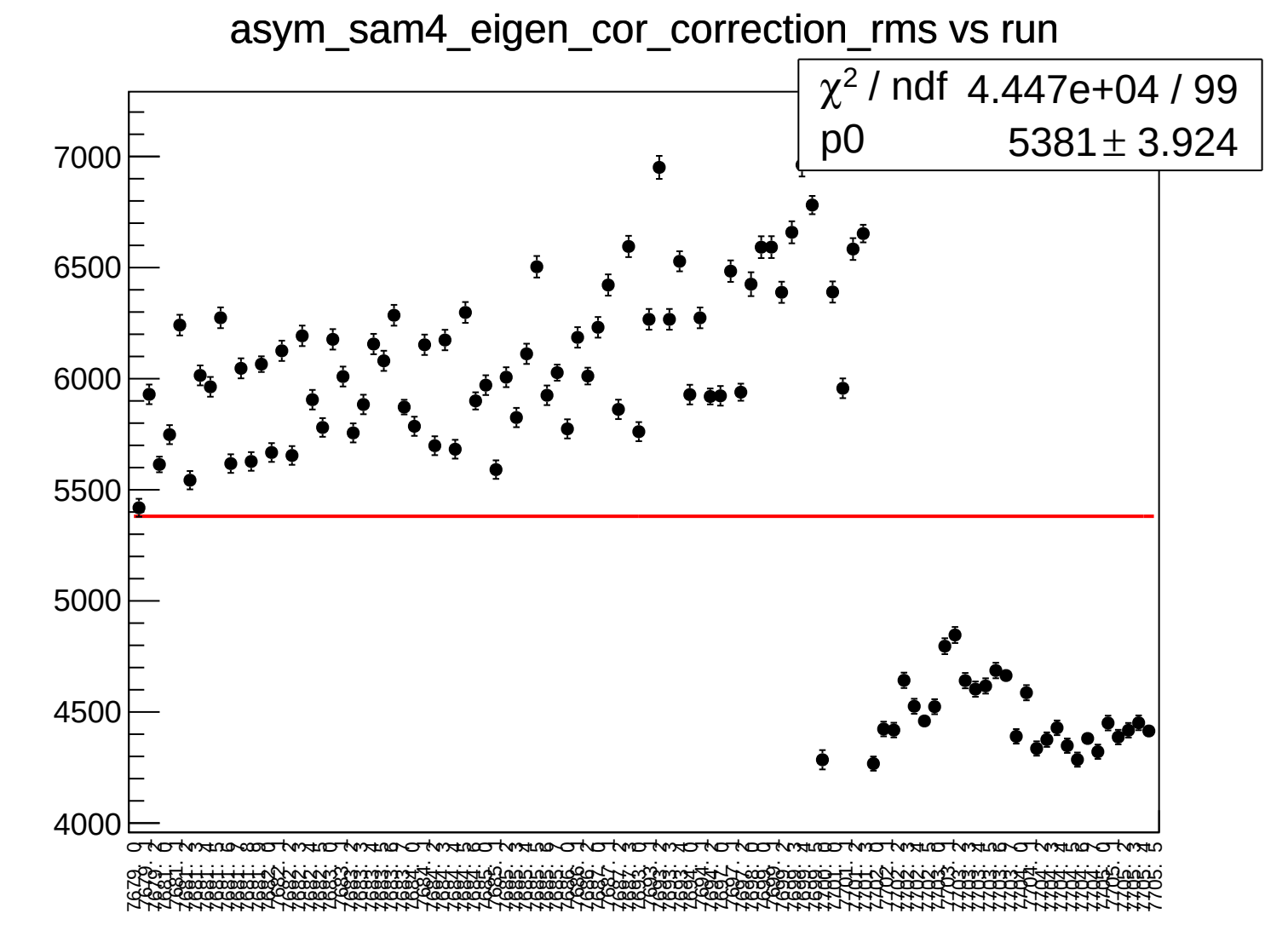

eigen_cor_asym_sam4_mean vs run
χ² / ndf 124.5 / 99
p0 −62.62 ± 333
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 100
Mean 136.1
Std Dev 0
2
1
0
−1
−2

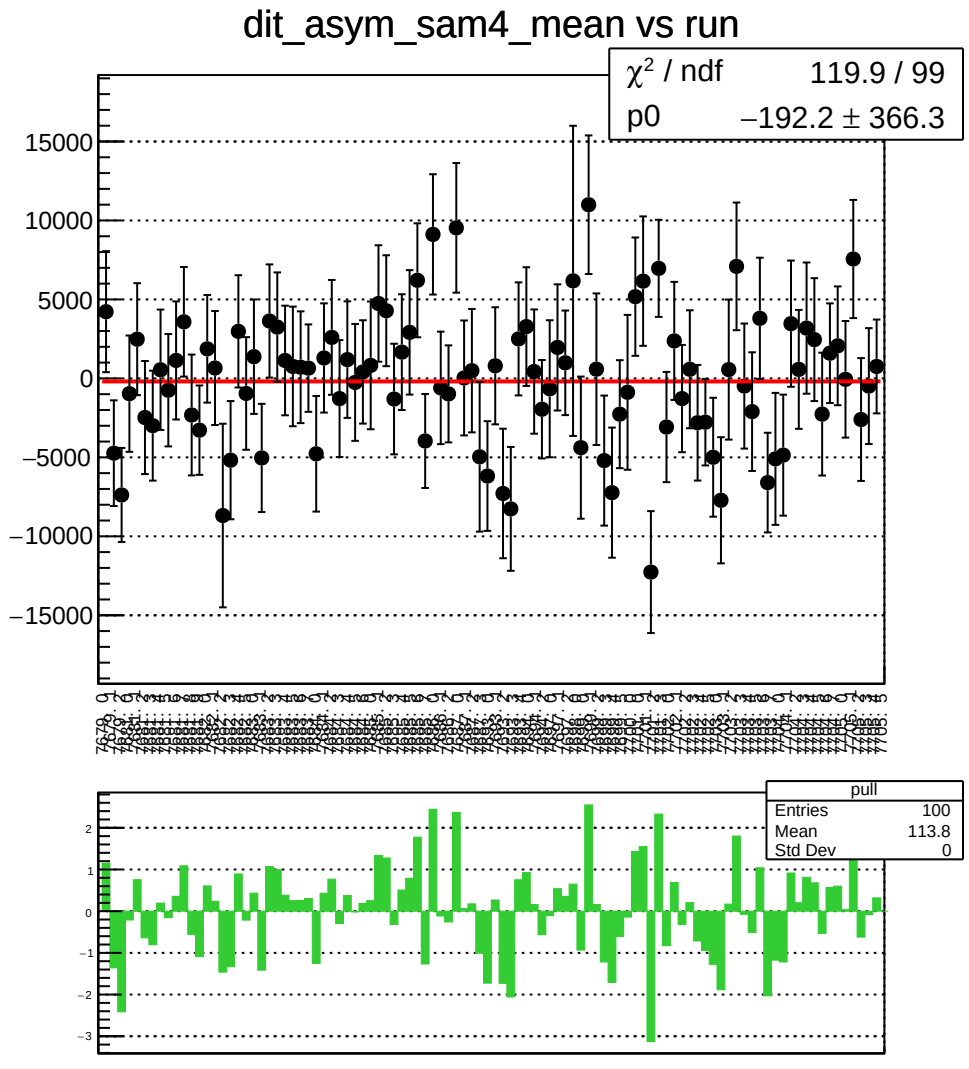

pull1D
Entries 100
Mean 0.006375
Std Dev 1.116
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

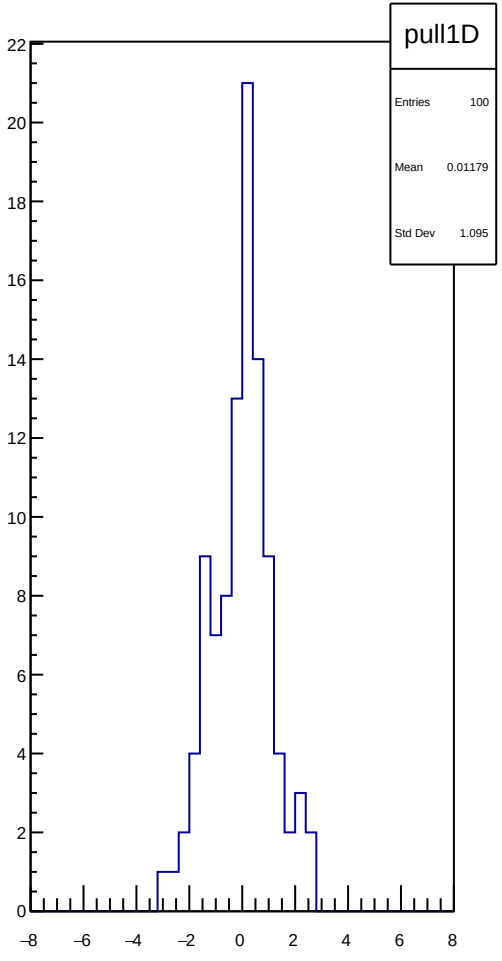

eigen_cor_asym_sam4_rms vs run
χ² / ndf 1.249e+04 / 99
p0 325.7 ± 0.2355
550
500
450
400
350
300

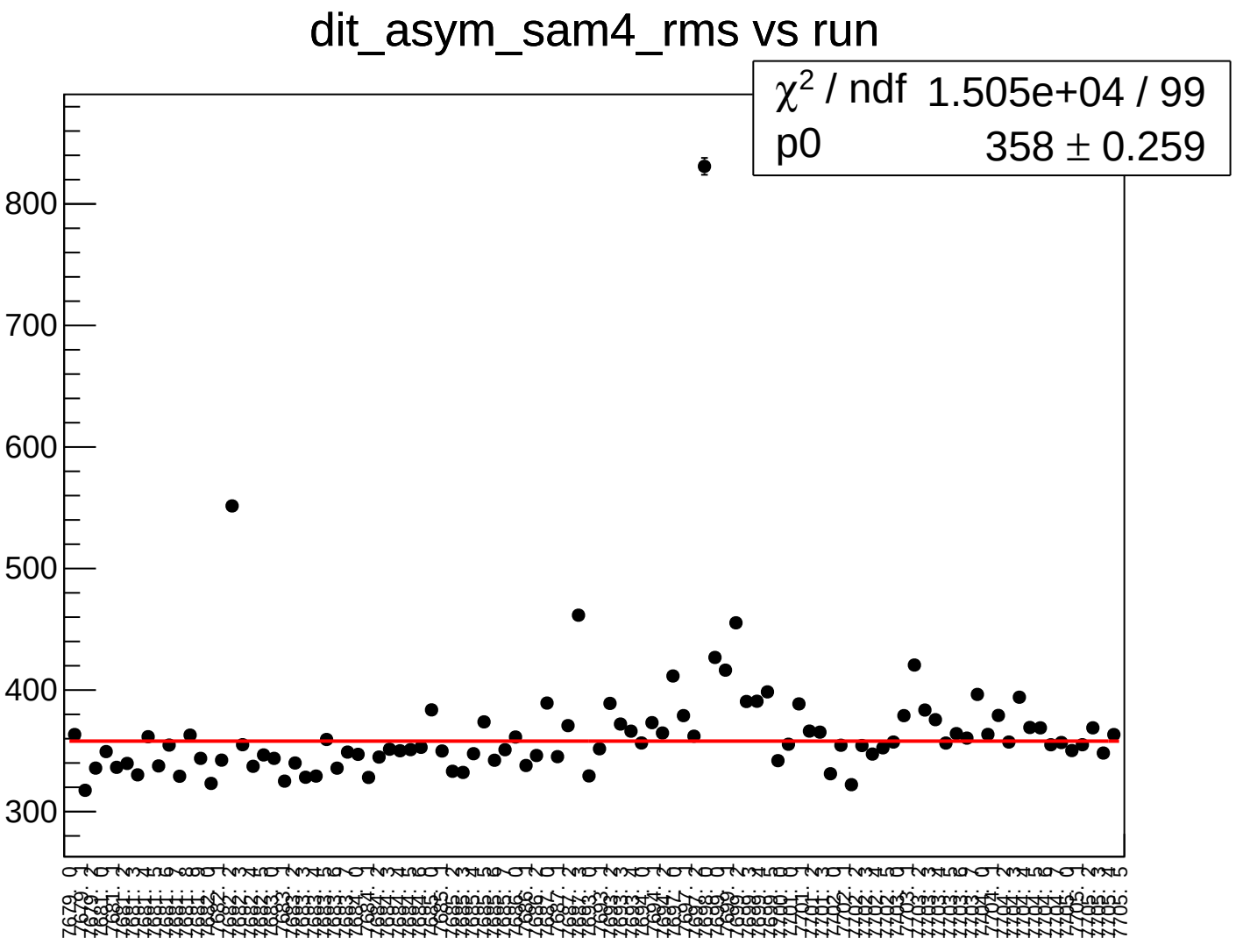

asym_sam4_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 86.78 / 99
p0 716.4 ± 5549
200
100
0
−100
−200
pull
Entries 100
Mean −189.5
Std Dev 0
2
1
0
−1
−2

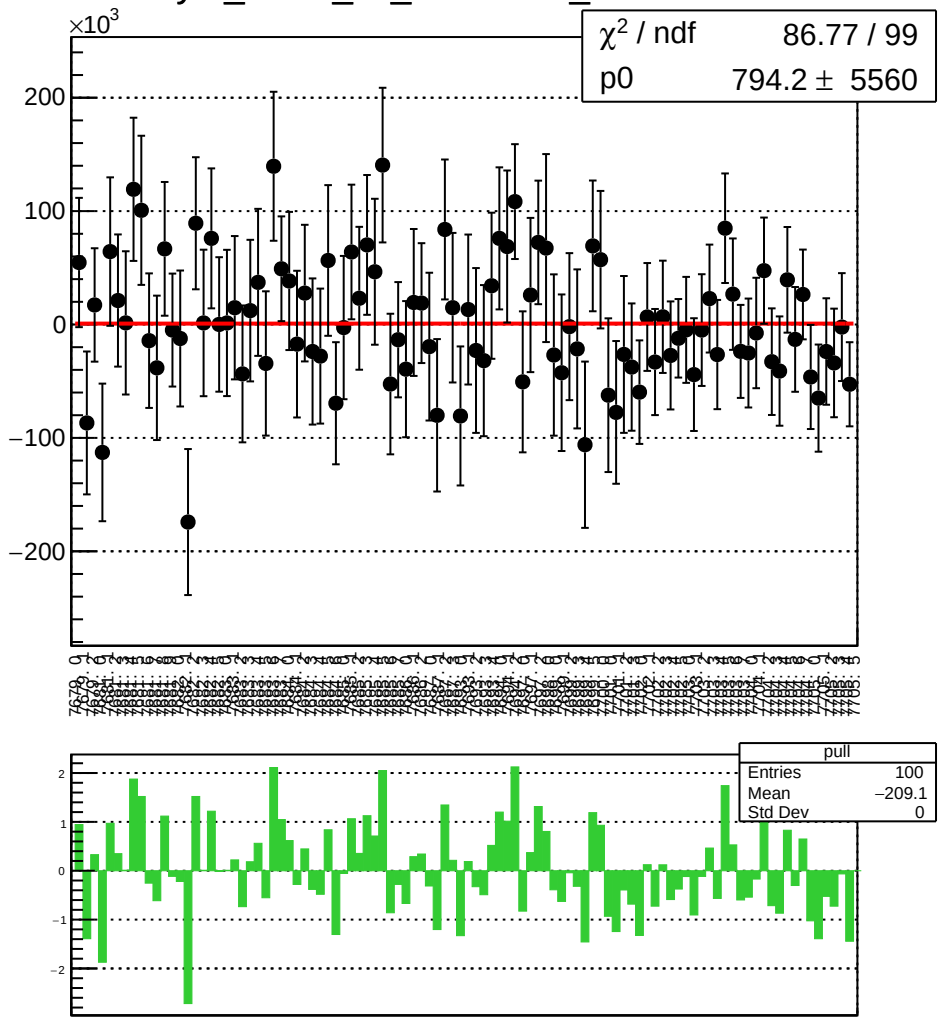

pull1D
Entries 100
Mean 0.02239
Std Dev 0.9313
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

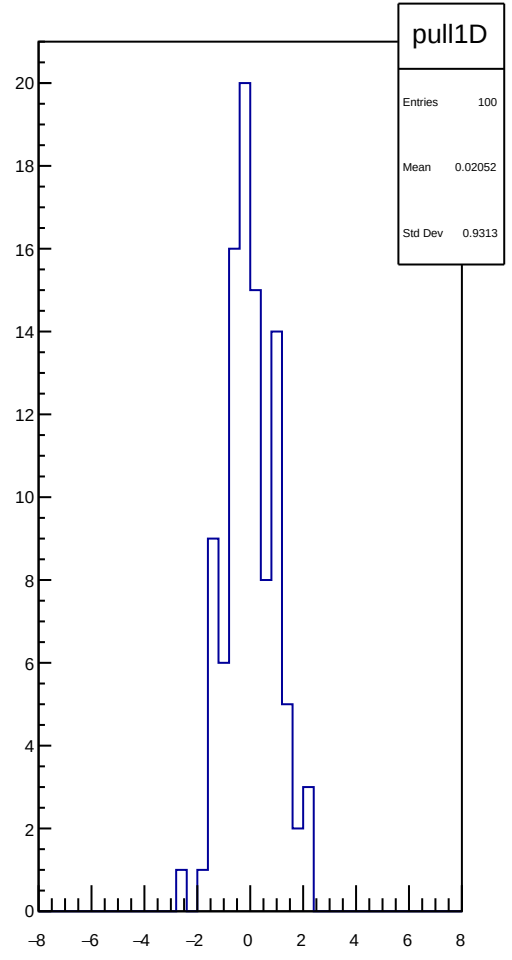

asym_sam4_eigen_cor_correction_rms vs run
χ^2 / ndf 4.447e+04 / 99
p0 5381 ± 3.924
7000
6500
6000
5500
5000
4500
4000

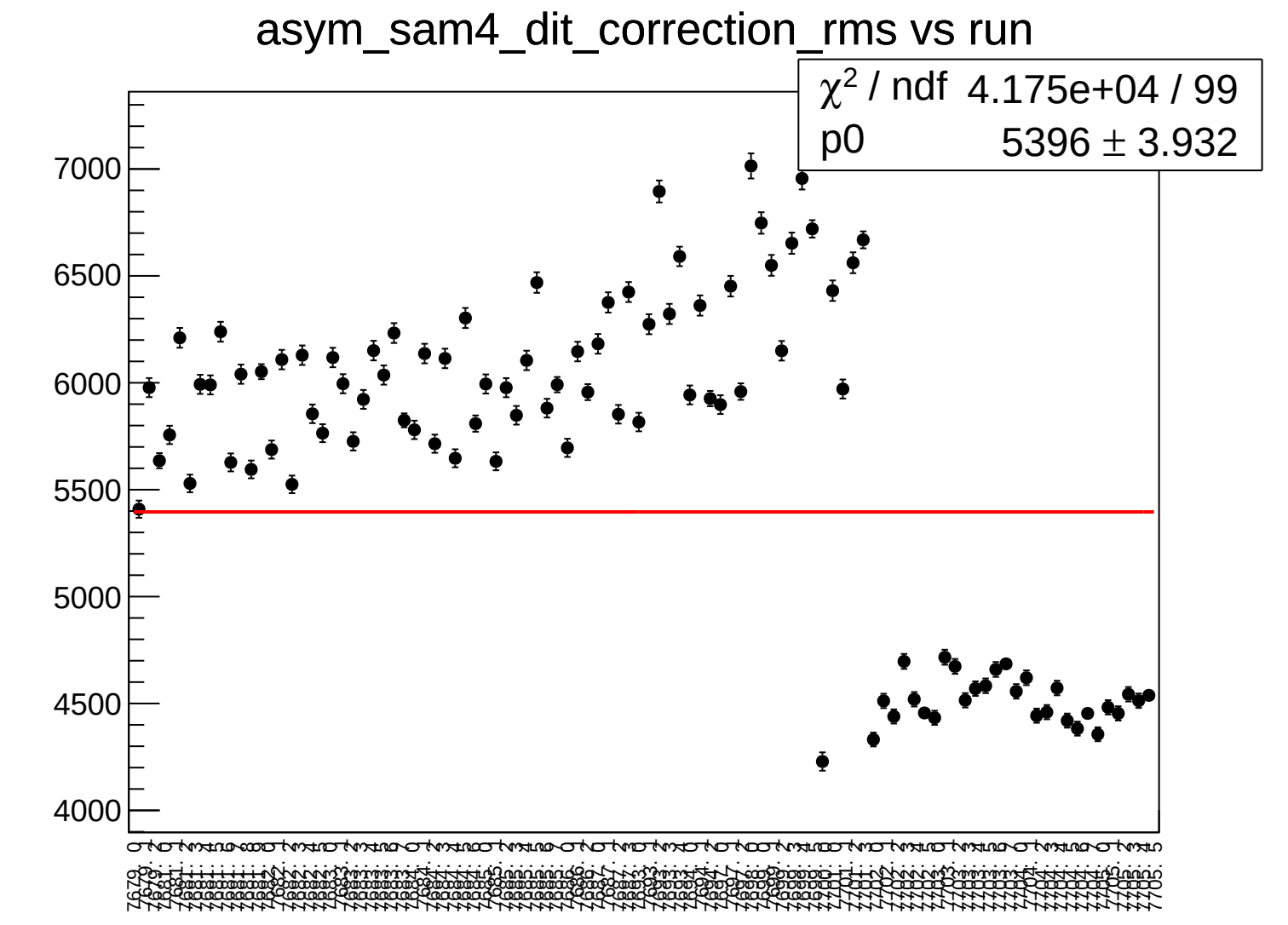

dit_asym_sam4_mean vs run
χ² / ndf 119.9 / 99
p0 −192.2 ± 366.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 100
Mean 113.8
Std Dev 0
2
1
0
−1
−2
−3

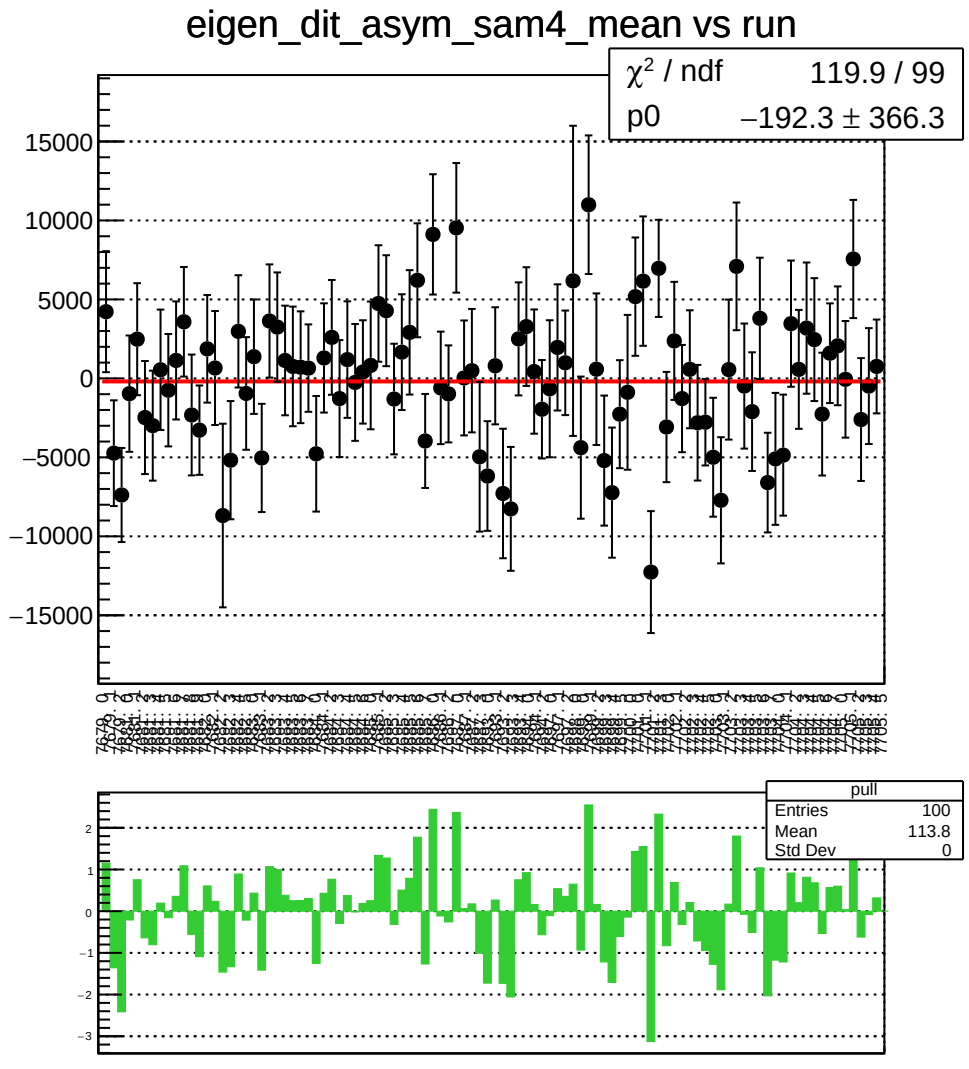

pull1D
Entries 100
Mean 0.01179
Std Dev 1.095
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

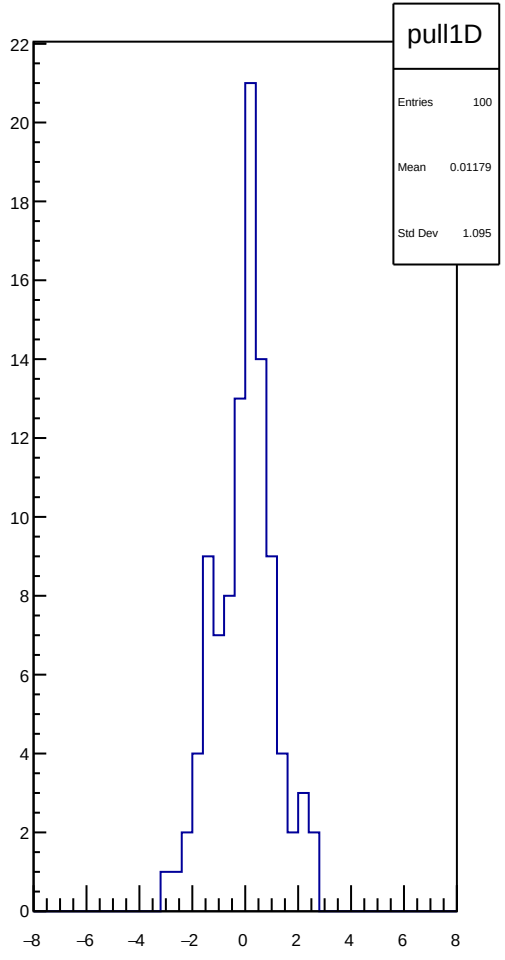

dit_asym_sam4_rms vs run
χ² / ndf 1.505e+04 / 99
p0 358 ± 0.259
800
700
600
500
400
300

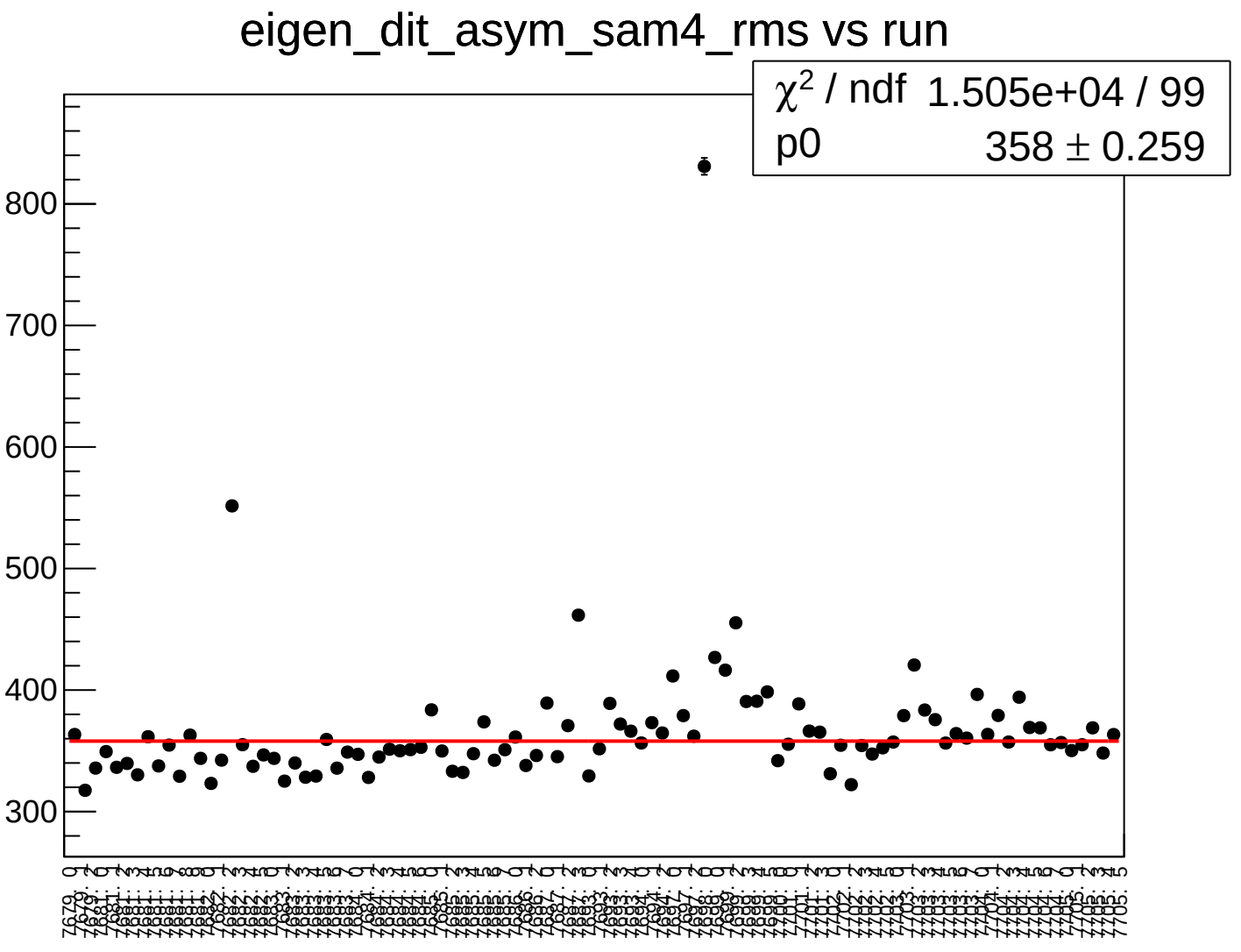

asym_sam4_dit_correction_mean vs run
×10^3
χ² / ndf 86.77 / 99
p0 794.2 ± 5560
200
100
0
−100
−200
pull
Entries 100
Mean −209.1
Std Dev 0
2
1
0
−1
−2

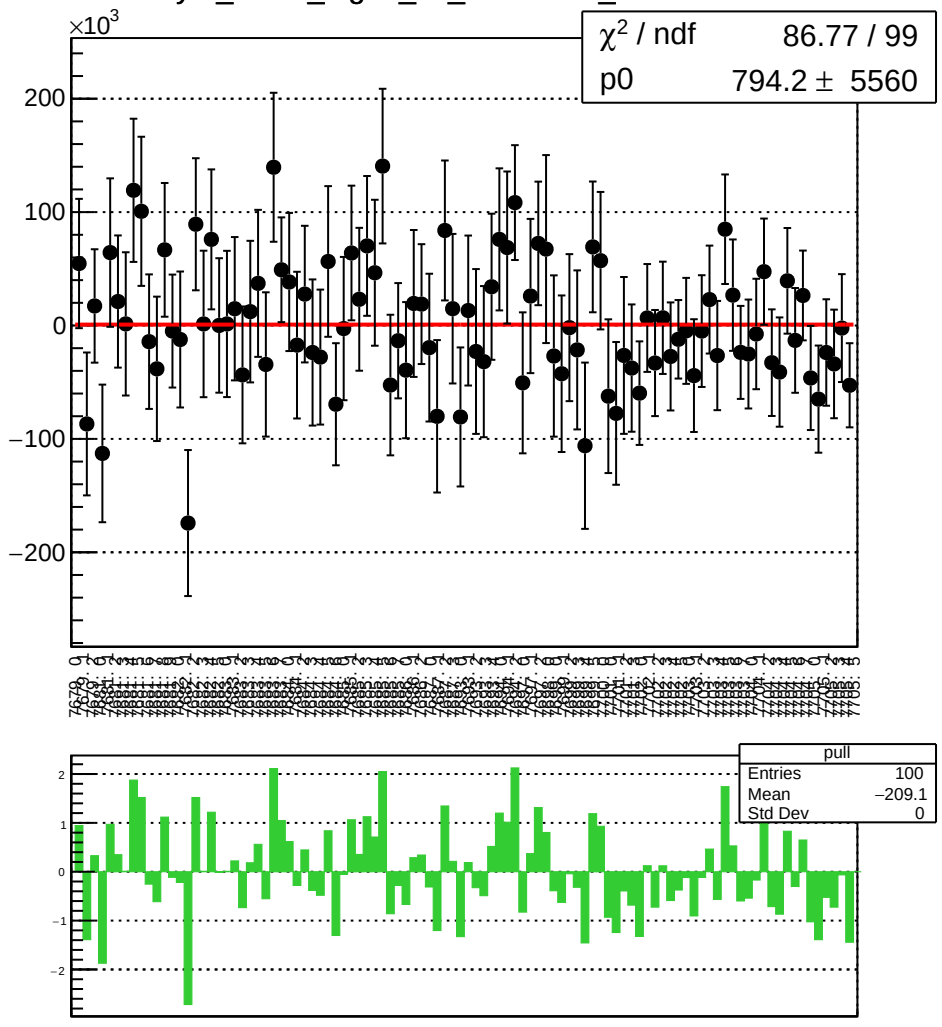

pull1D
Entries 100
Mean 0.02052
Std Dev 0.9313
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

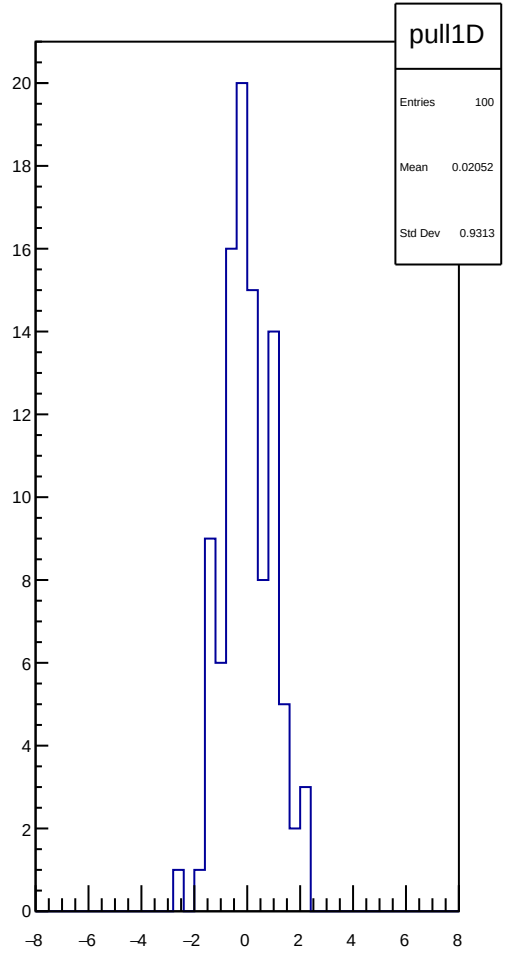

asym_sam4_dit_correction_rms vs run
χ² / ndf 4.175e+04 / 99
p0 5396 ± 3.932
7000
6500
6000
5500
5000
4500
4000

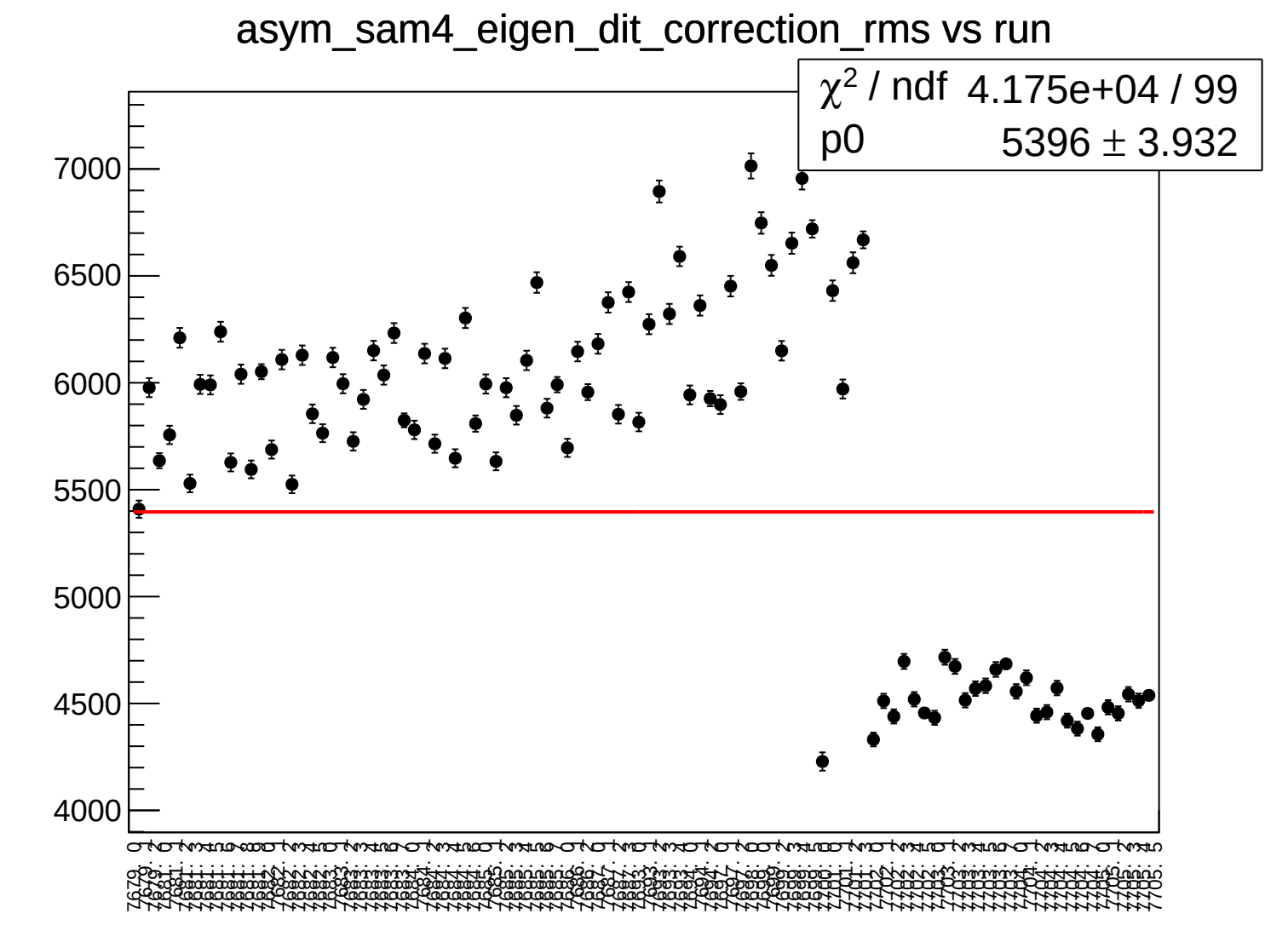

eigen_dit_asym_sam4_mean vs run
χ² / ndf 119.9 / 99
p0 −192.3 ± 366.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 100
Mean 113.8
Std Dev 0
2
1
0
−1
−2
−3

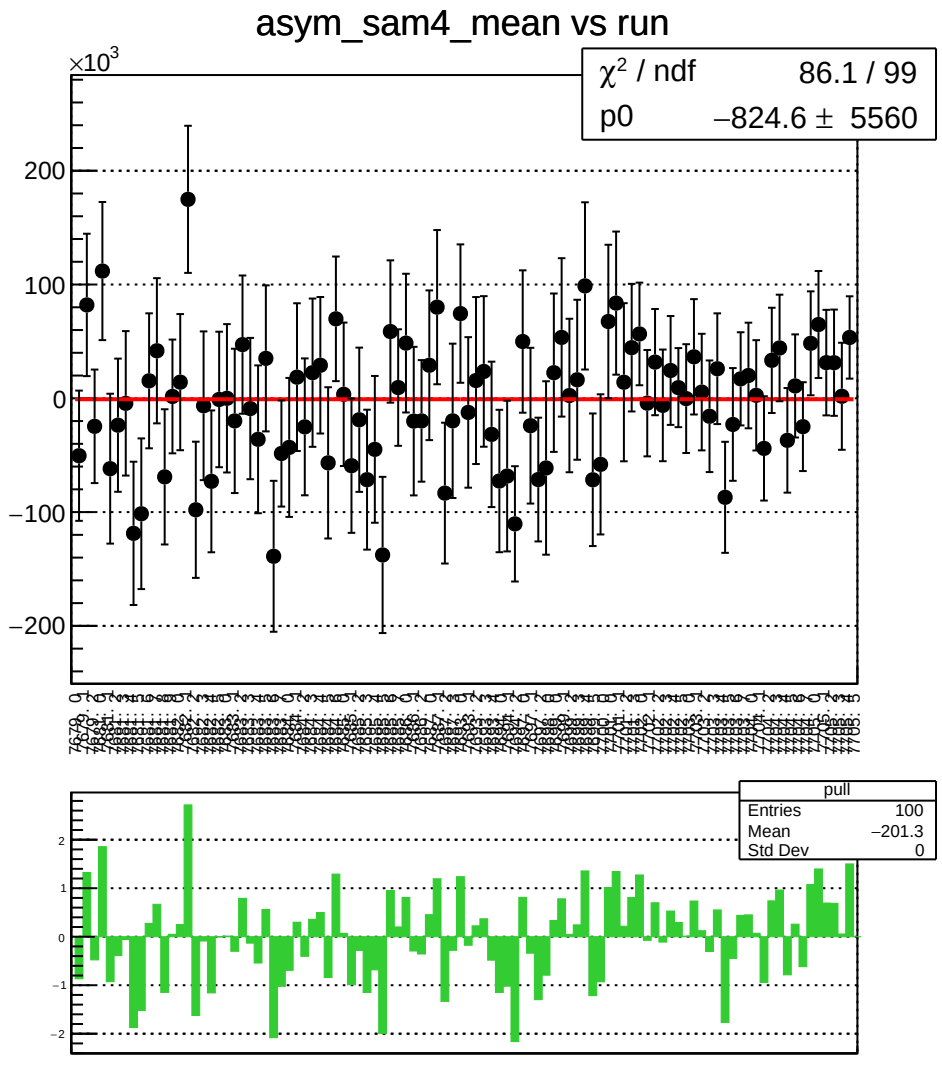

pull1D
Entries 100
Mean 0.01179
Std Dev 1.095
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

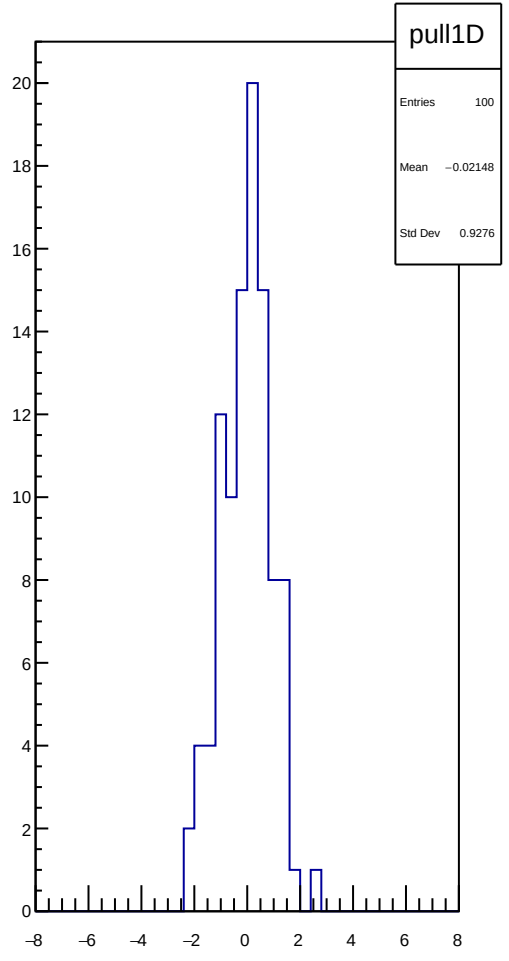

eigen_dit_asym_sam4_rms vs run
χ^2 / ndf 1.505e+04 / 99
p0 358 ± 0.259
800
700
600
500
400
300

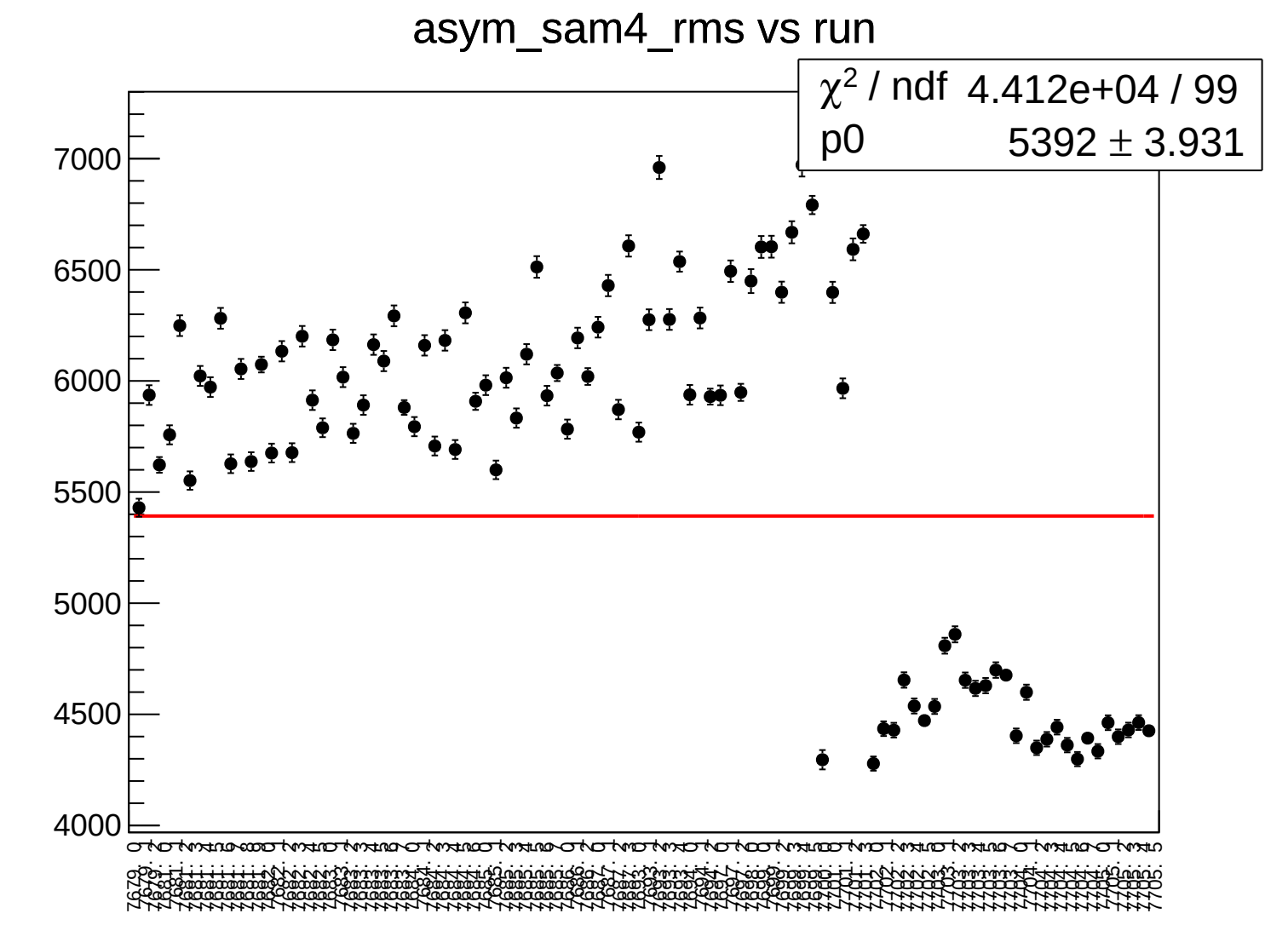

asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.77 / 99
p0 794.2 ± 5560
200
100
0
−100
−200
pull
Entries 100
Mean −209.1
Std Dev 0
2
1
0
−1
−2

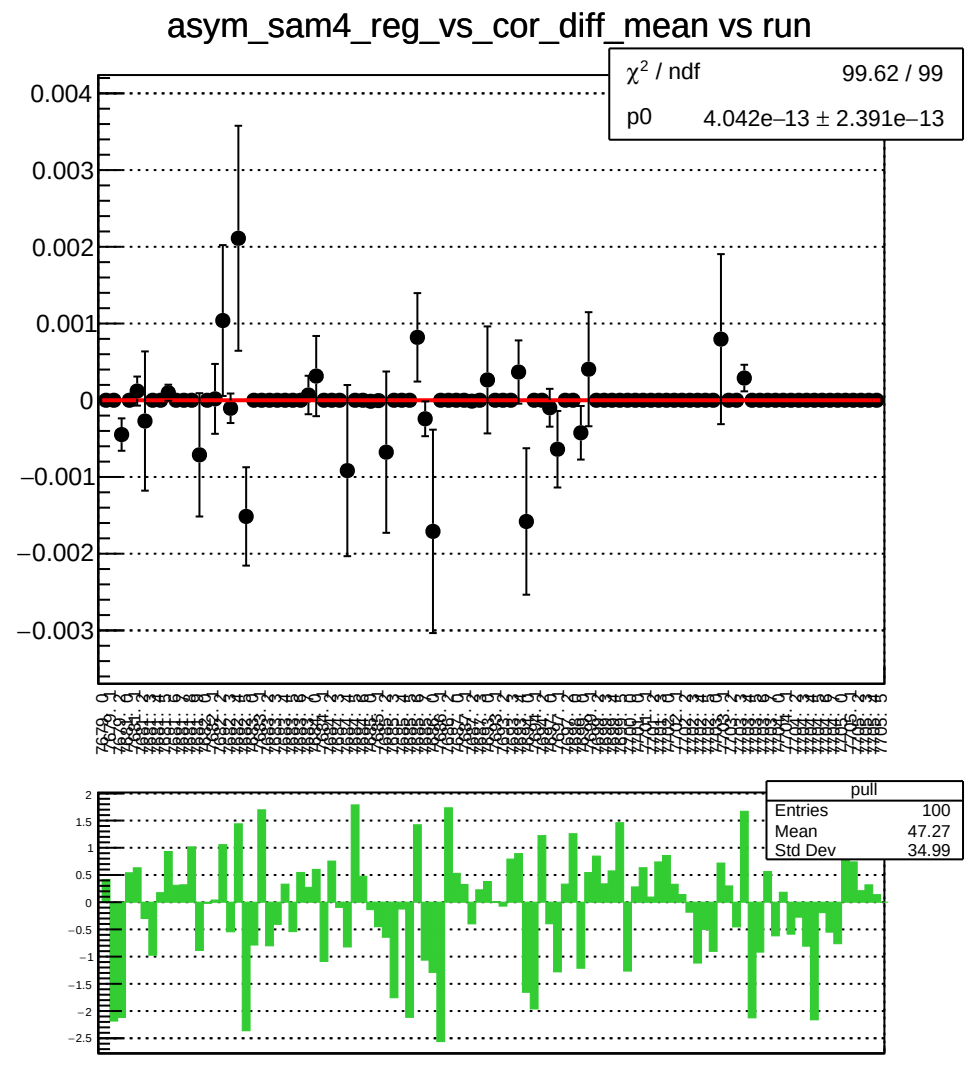

pull1D
Entries 100
Mean 0.02052
Std Dev 0.9313
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

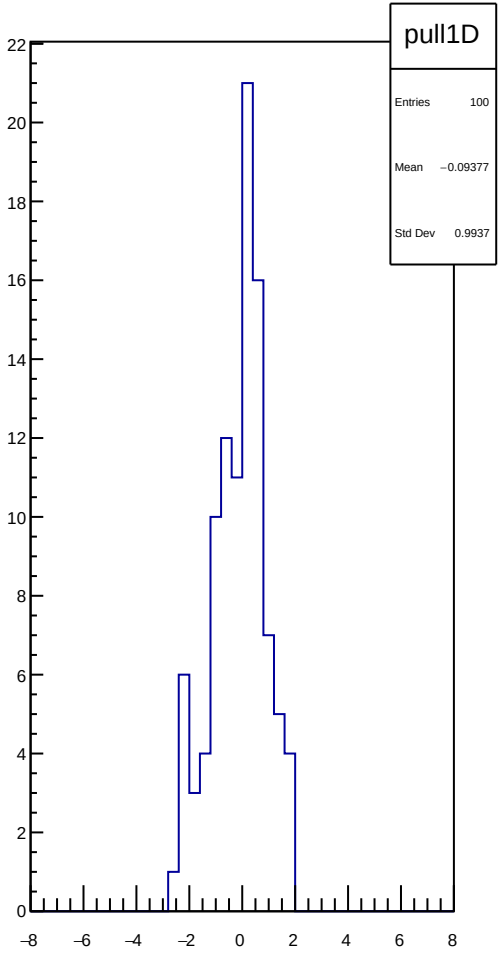

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 4.175e+04 / 99
p0 5396 ± 3.932
7000
6500
6000
5500
5000
4500
4000

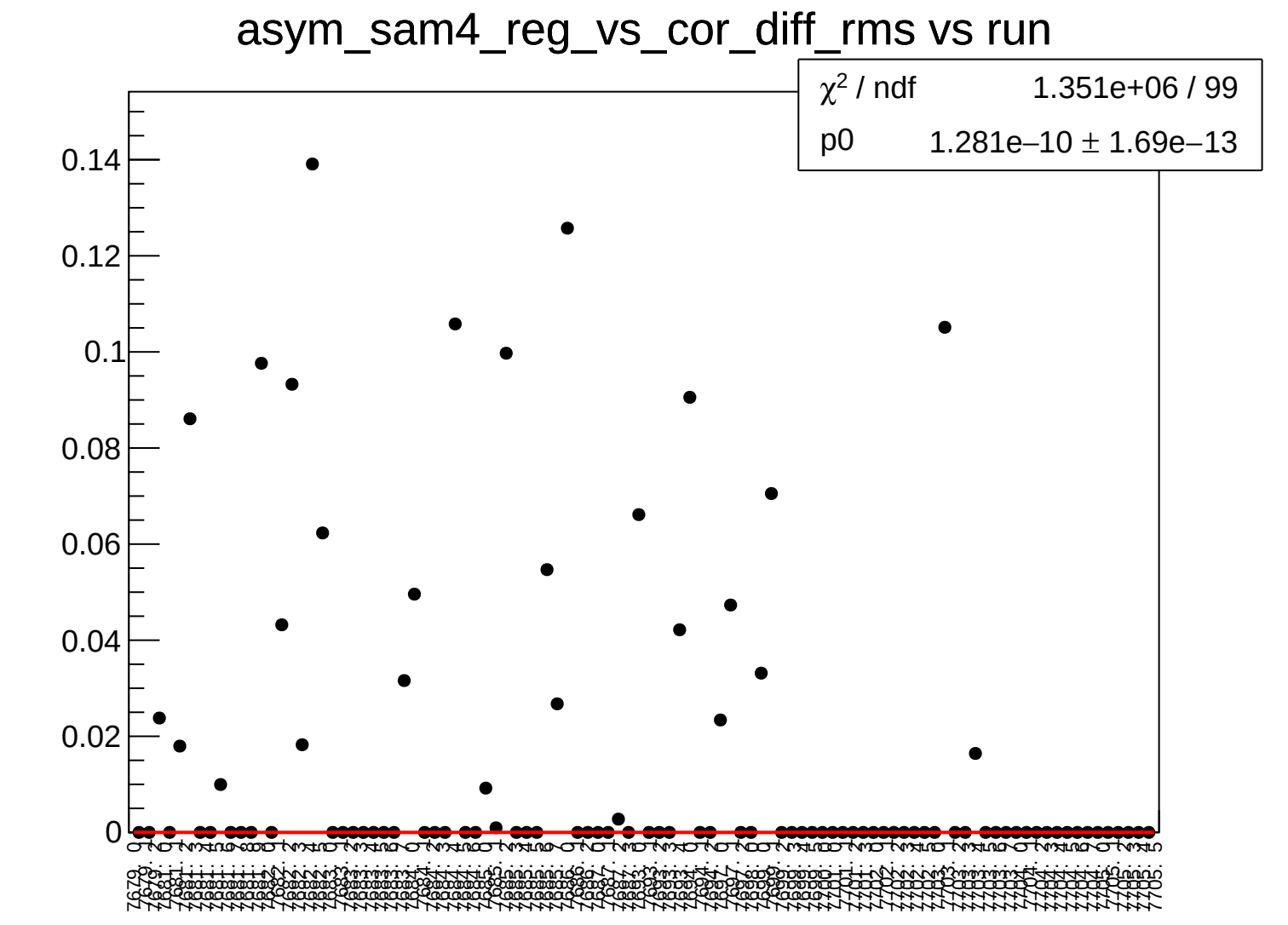

asym_sam4_mean vs run
×10^3
χ² / ndf 86.1 / 99
p0 −824.6 ± 5560
200
100
0
−100
−200
pull
Entries 100
Mean −201.3
Std Dev 0
2
1
0
−1
−2

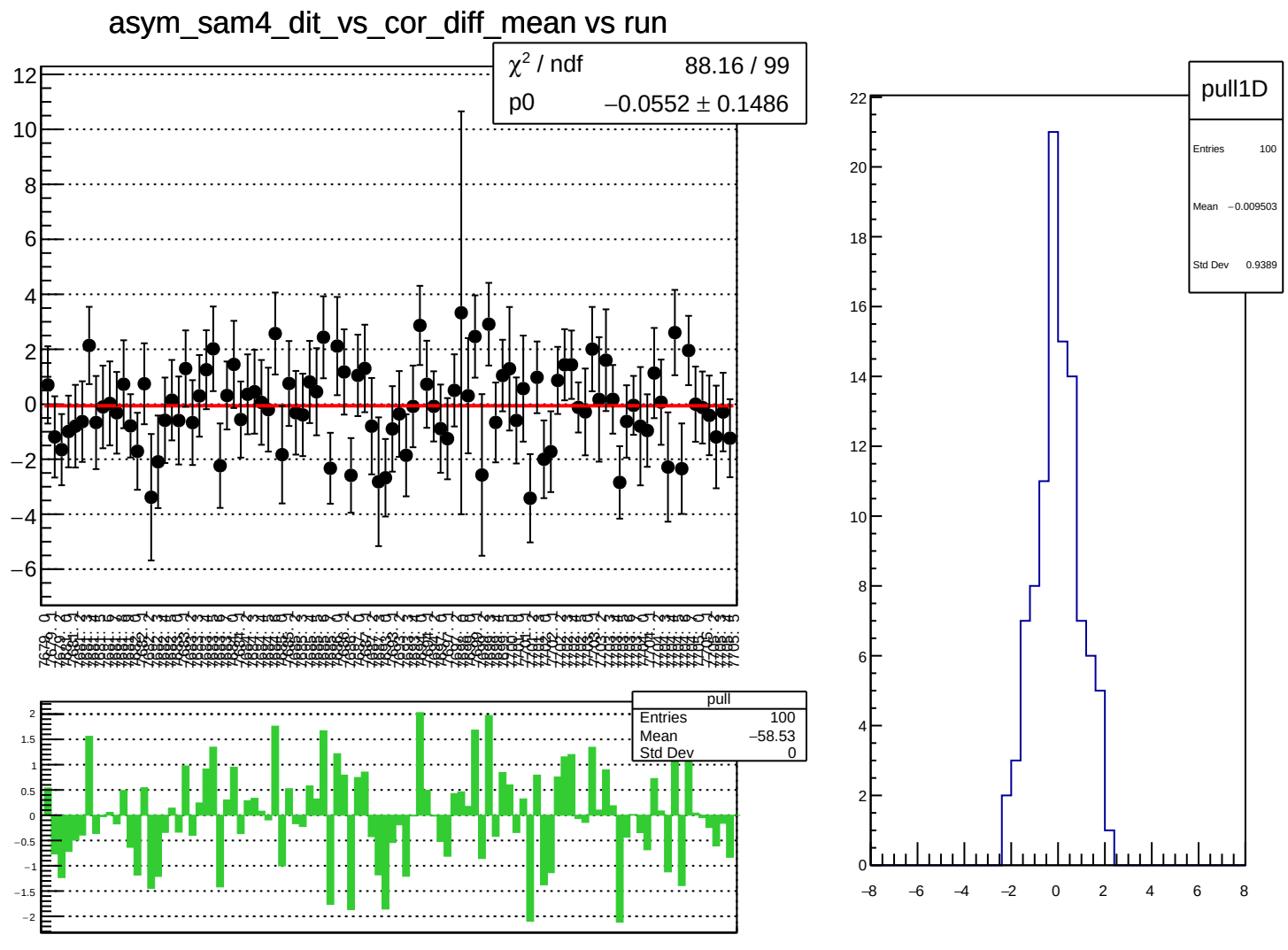

pull1D
Entries 100
Mean −0.02148
Std Dev 0.9276
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

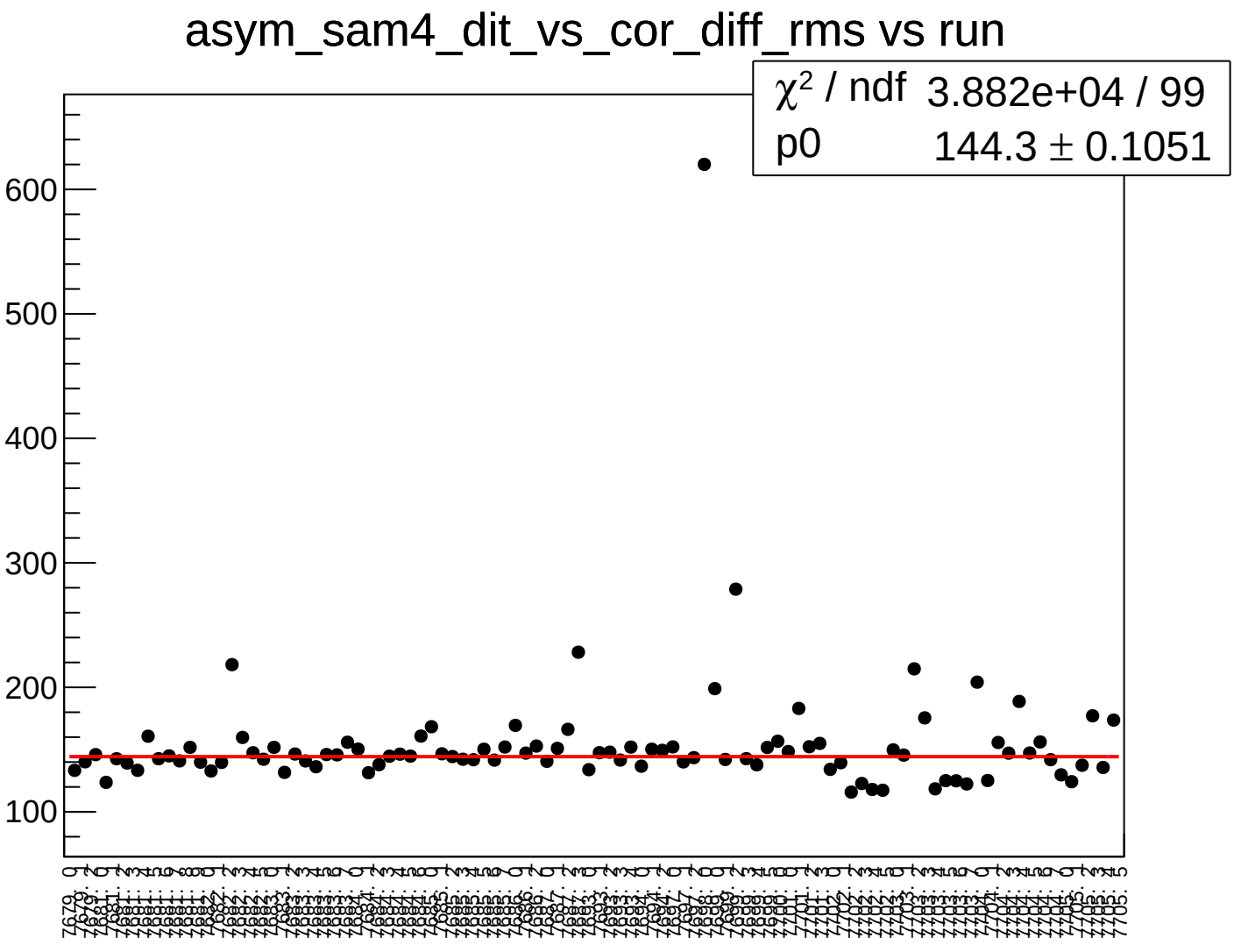

asym_sam4_rms vs run
χ^2 / ndf 4.412e+04 / 99
p0 5392 ± 3.931
7000
6500
6000
5500
5000
4500
4000

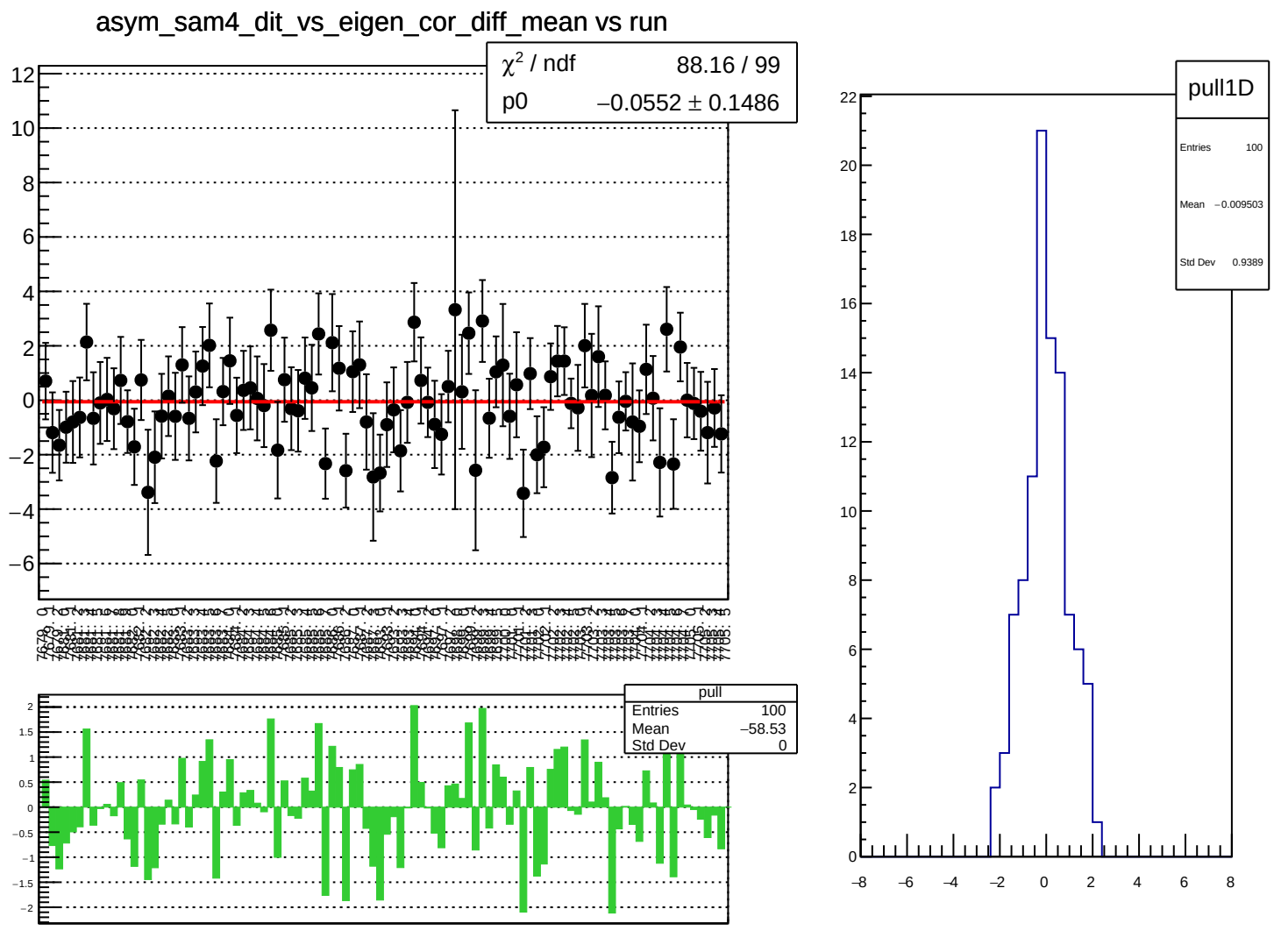

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 99.62 / 99
p0 4.042e−13 ± 2.391e−13
pull
Entries 100
Mean 47.27
Std Dev 34.99

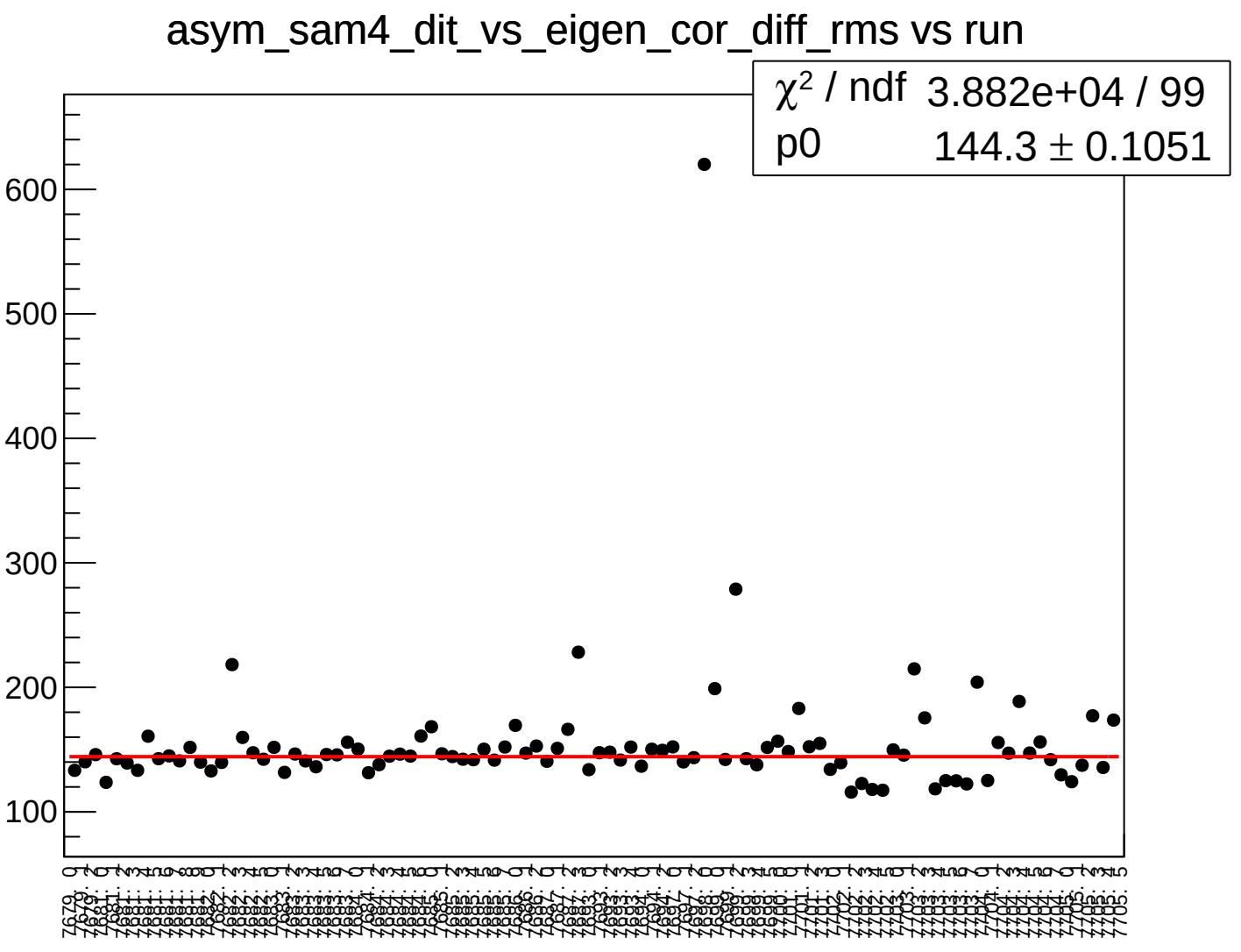

pull1D
Entries 100
Mean −0.09377
Std Dev 0.9937

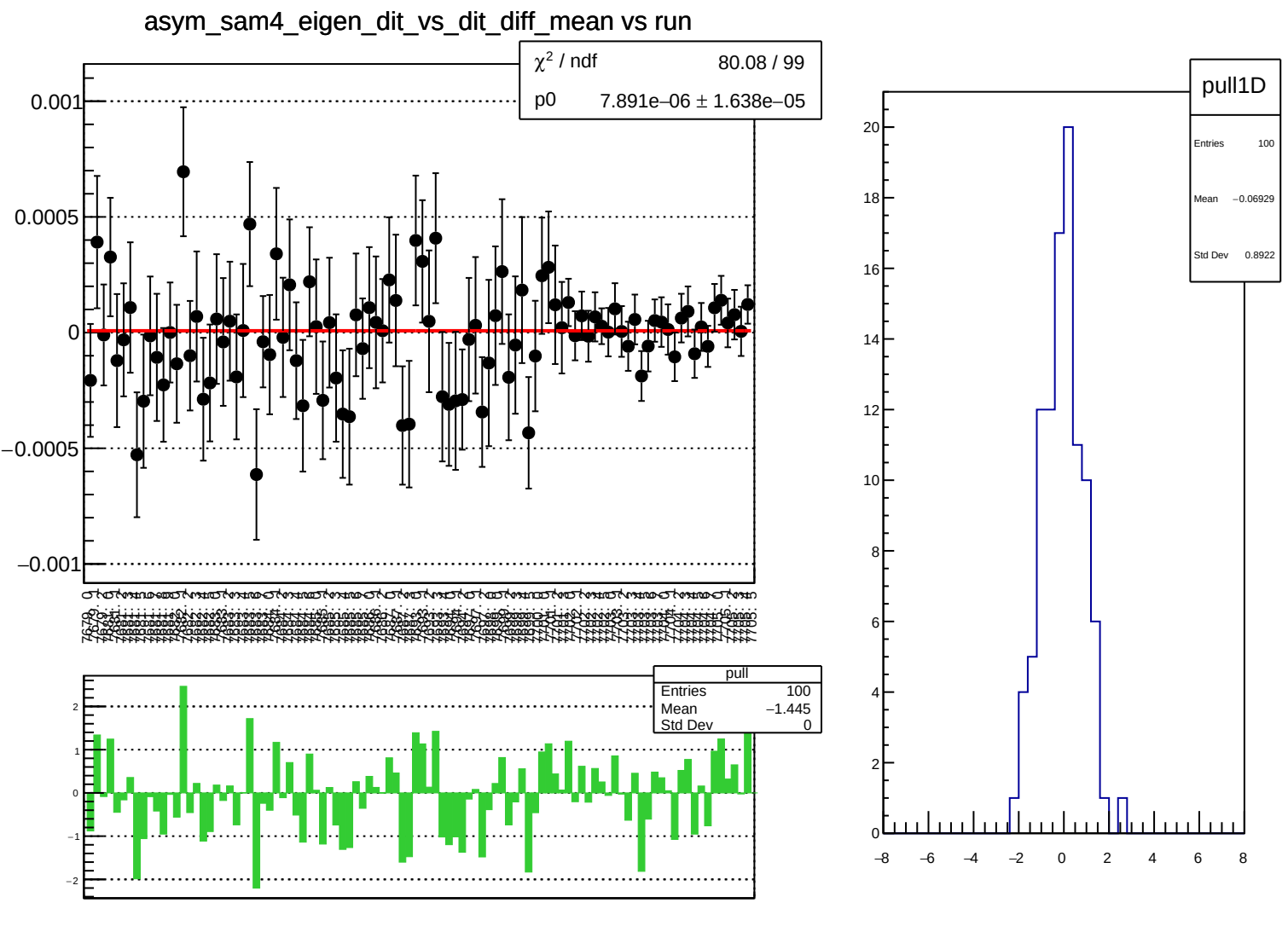

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 1.351e+06 / 99
p0 1.281e−10 ± 1.69e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

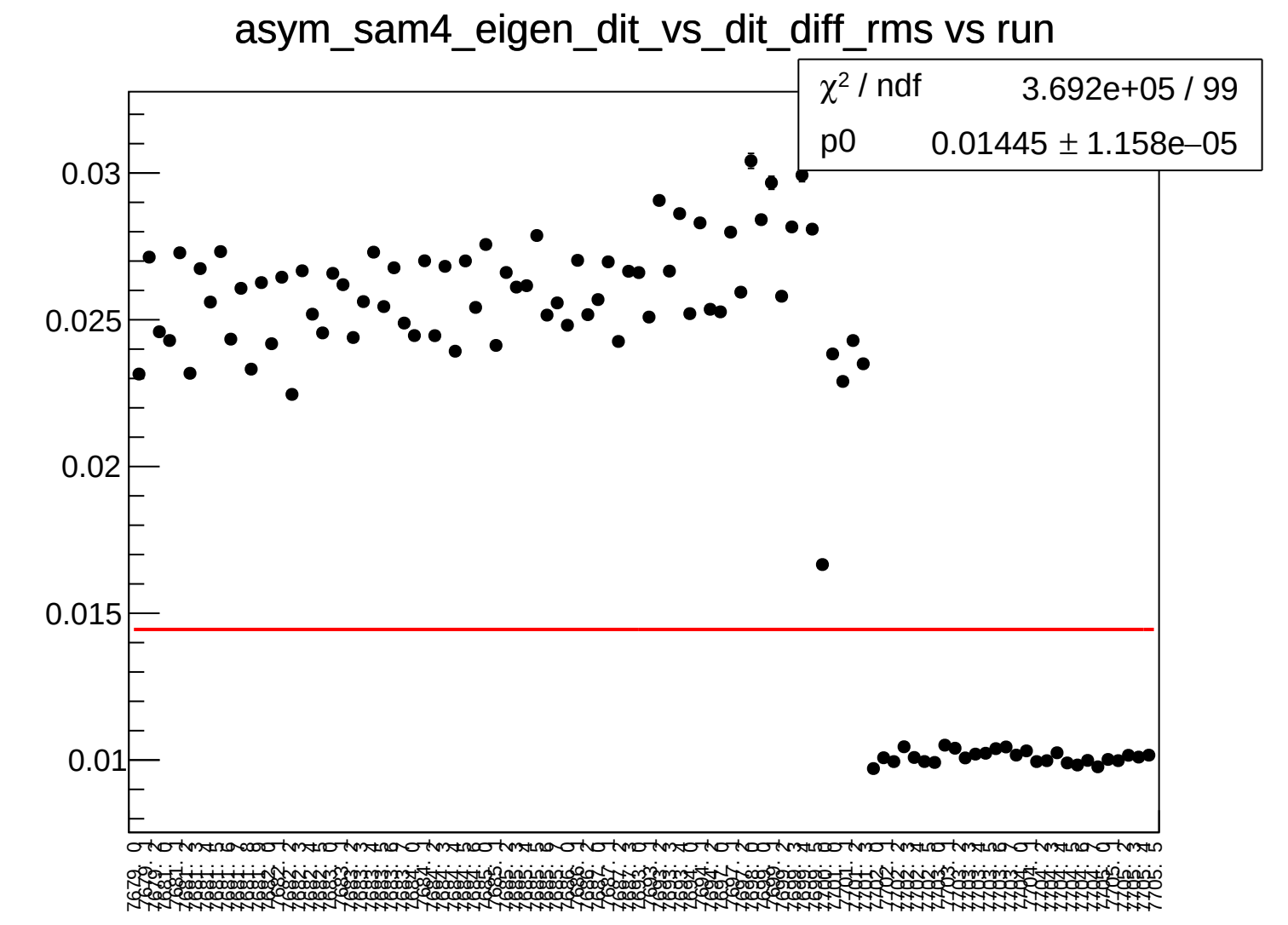

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 88.16 / 99
p0 −0.0552 ± 0.1486
pull
Entries 100
Mean −58.53
Std Dev 0
pull1D
Entries 100
Mean −0.009503
Std Dev 0.9389

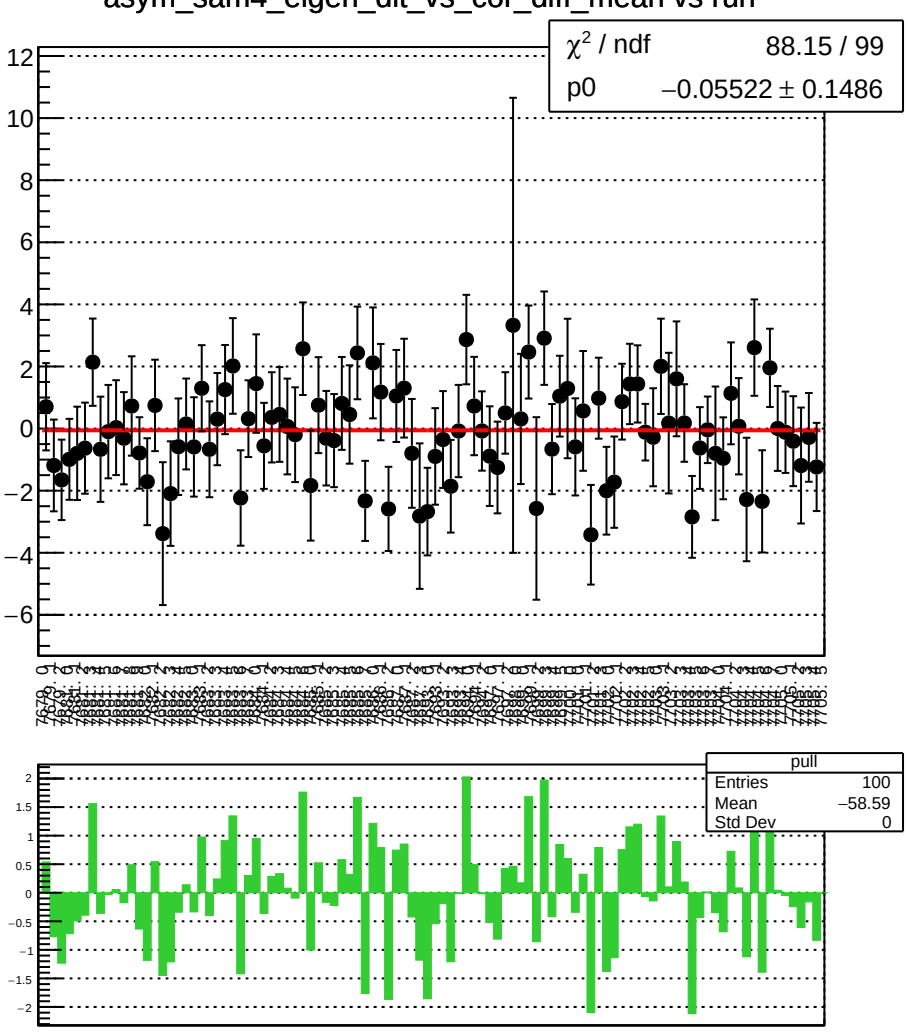

asym_sam4_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.882e+04 / 99
p0 144.3 ± 0.1051
600
500
400
300
200
100

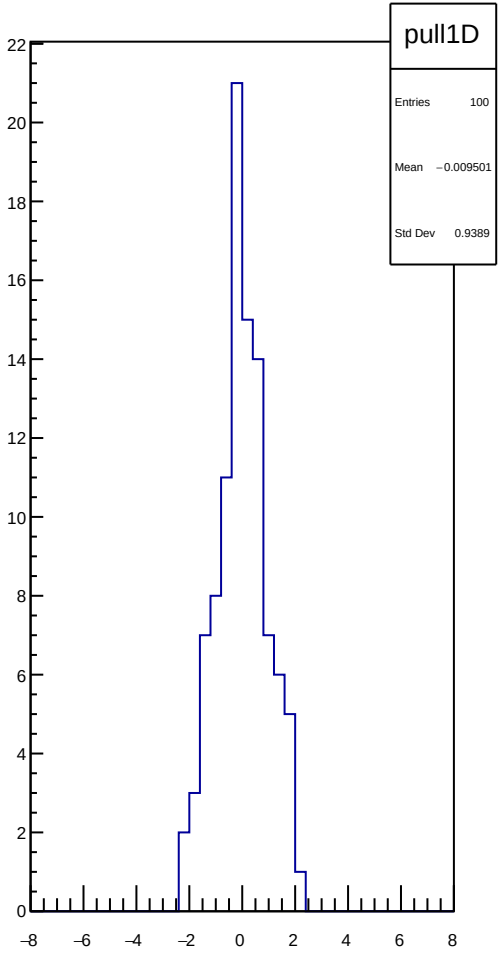

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.16 / 99
p0 −0.0552 ± 0.1486
pull
Entries 100
Mean −58.53
Std Dev 0
pull1D
Entries 100
Mean −0.009503
Std Dev 0.9389

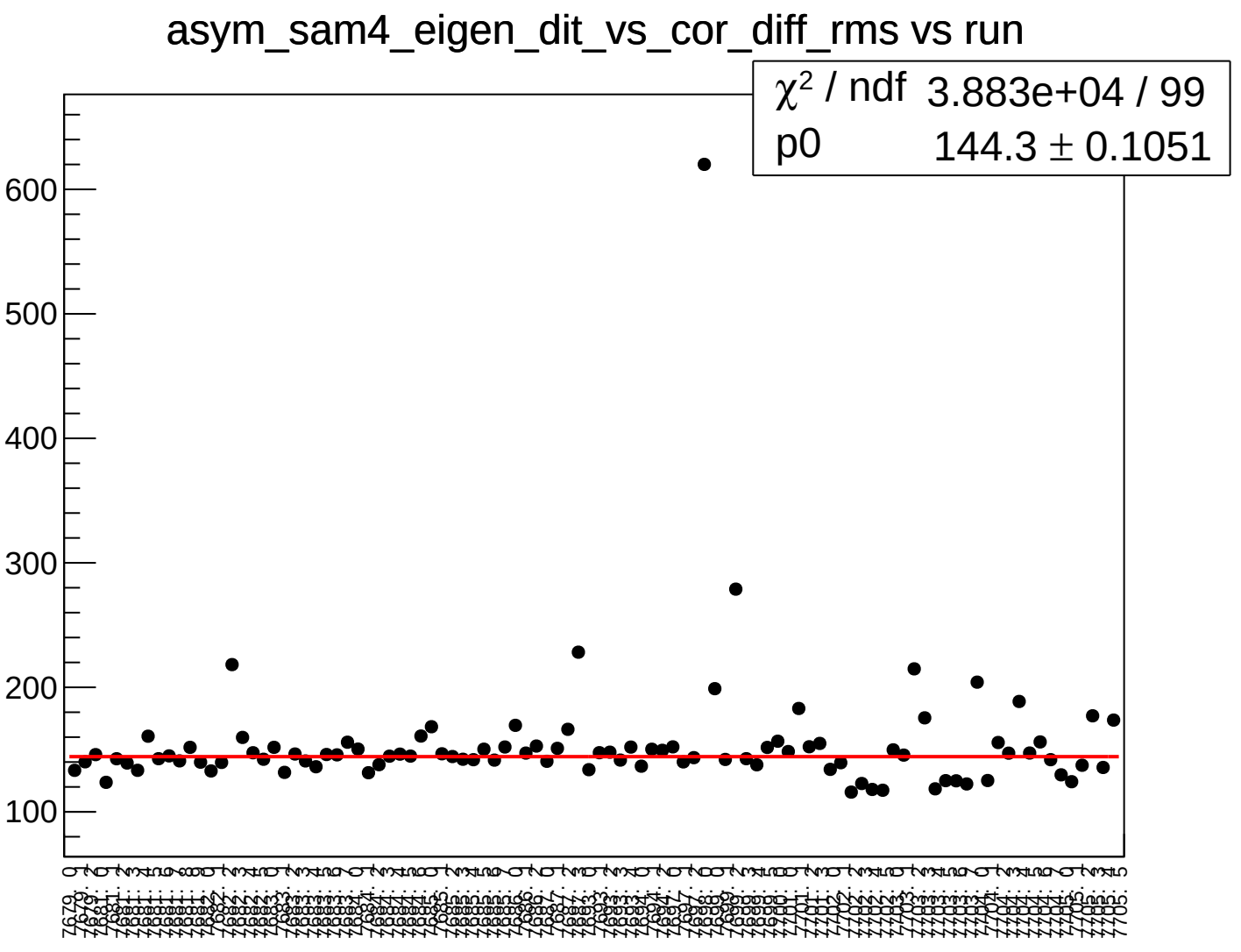

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.882e+04 / 99
p0 144.3 ± 0.1051
600
500
400
300
200
100

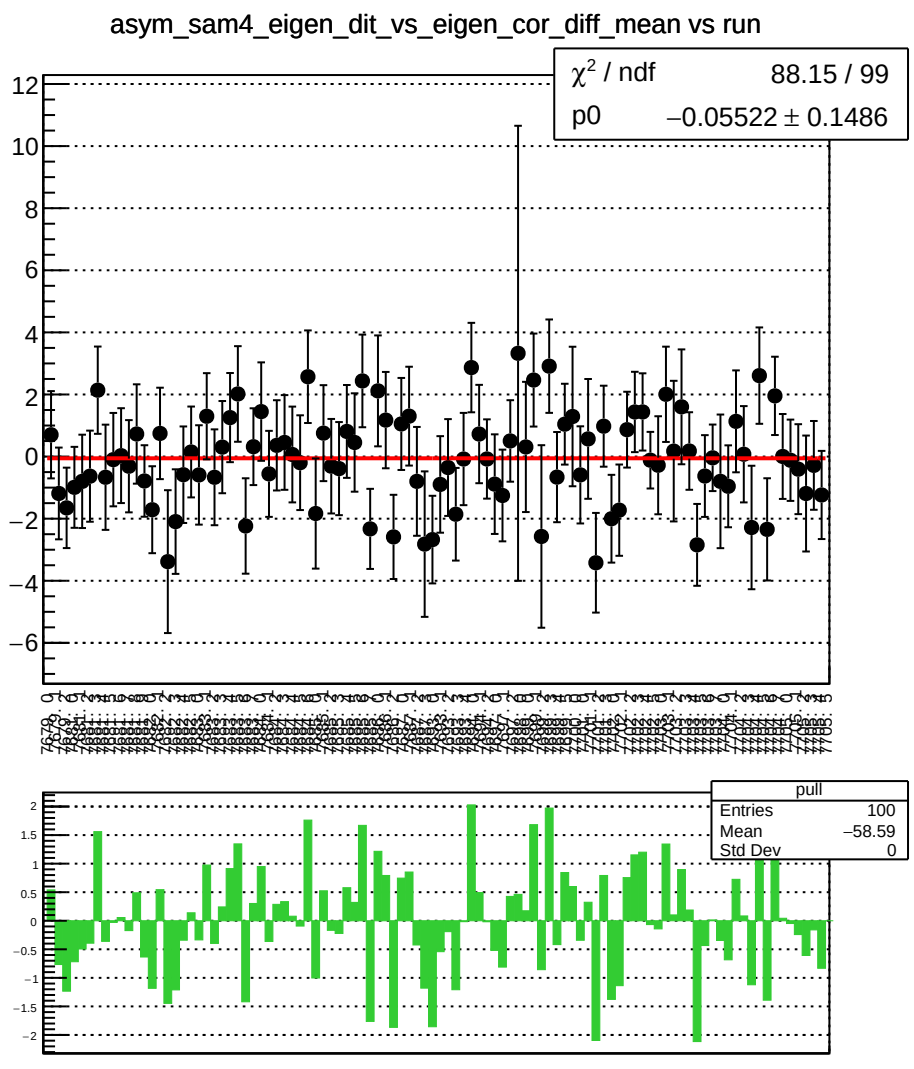

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 80.08 / 99
p0 7.891e−06 ± 1.638e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 100
Mean −1.445
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.06929
Std Dev 0.8922
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

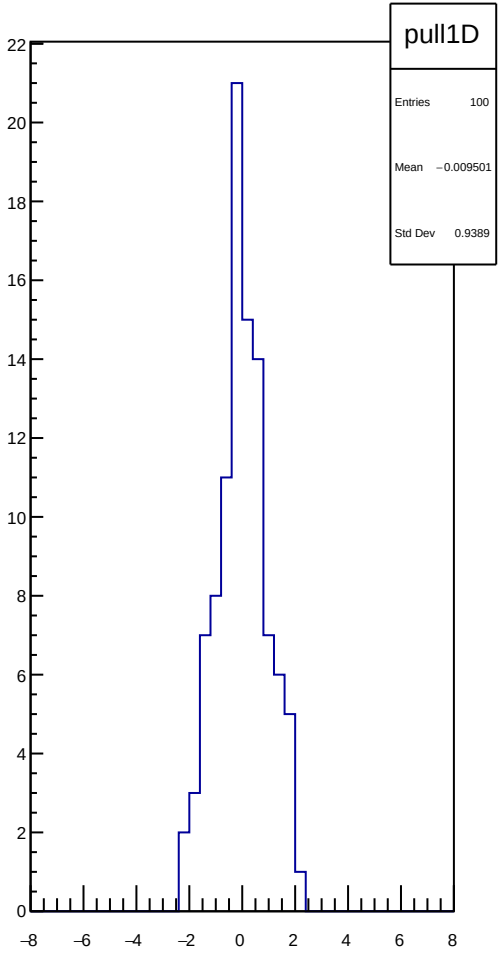

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.692e+05 / 99
p0 0.01445 ± 1.158e−05
0.03
0.025
0.02
0.015
0.01

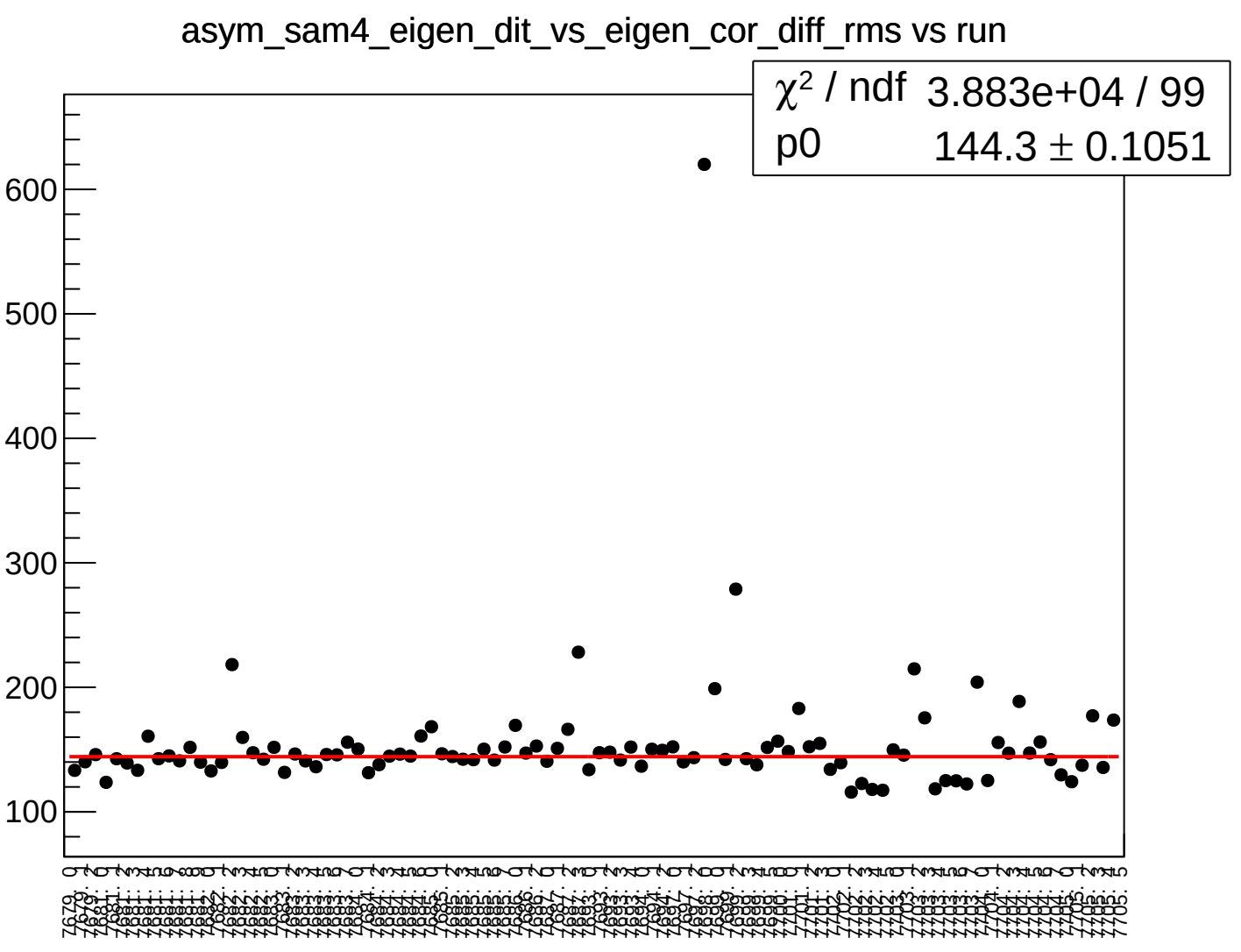

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.15 / 99
p0 −0.05522 ± 0.1486
pull
Entries 100
Mean −58.59
Std Dev 0

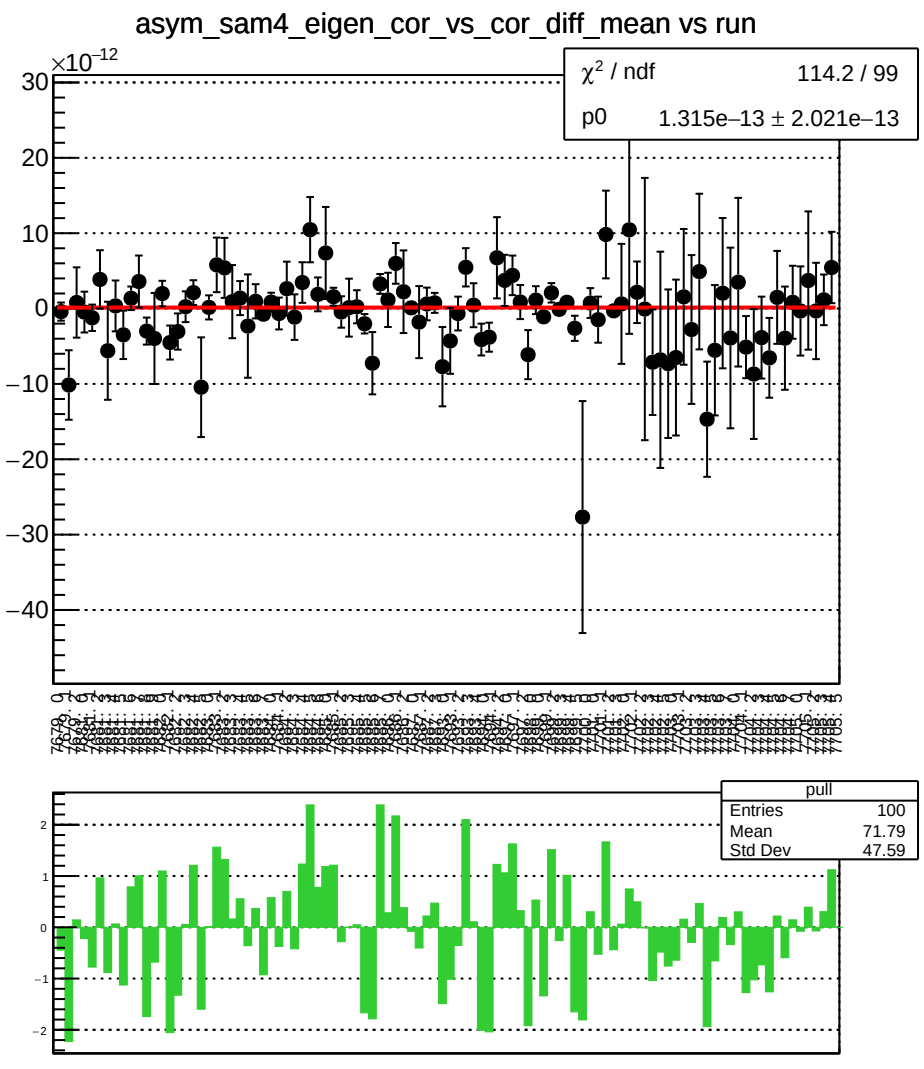

pull1D
Entries 100
Mean −0.009501
Std Dev 0.9389

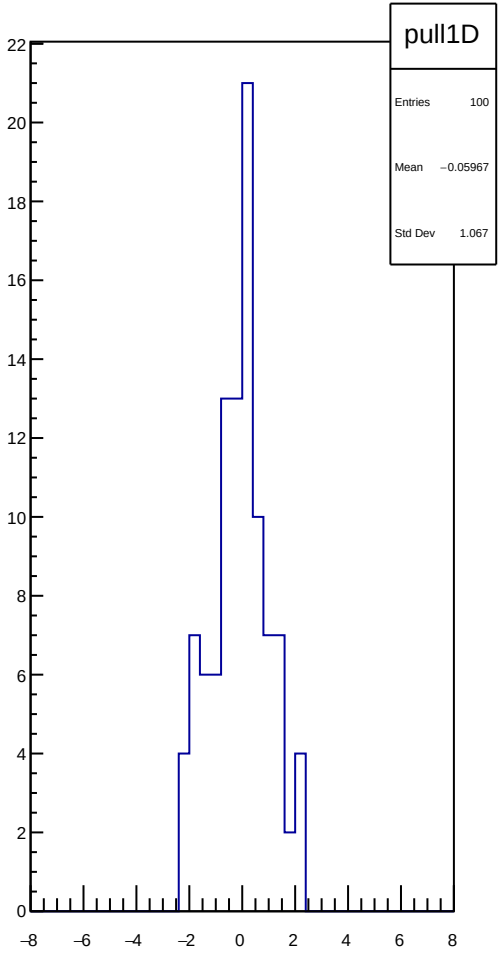

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.883e+04 / 99
p0 144.3 ± 0.1051
600
500
400
300
200
100

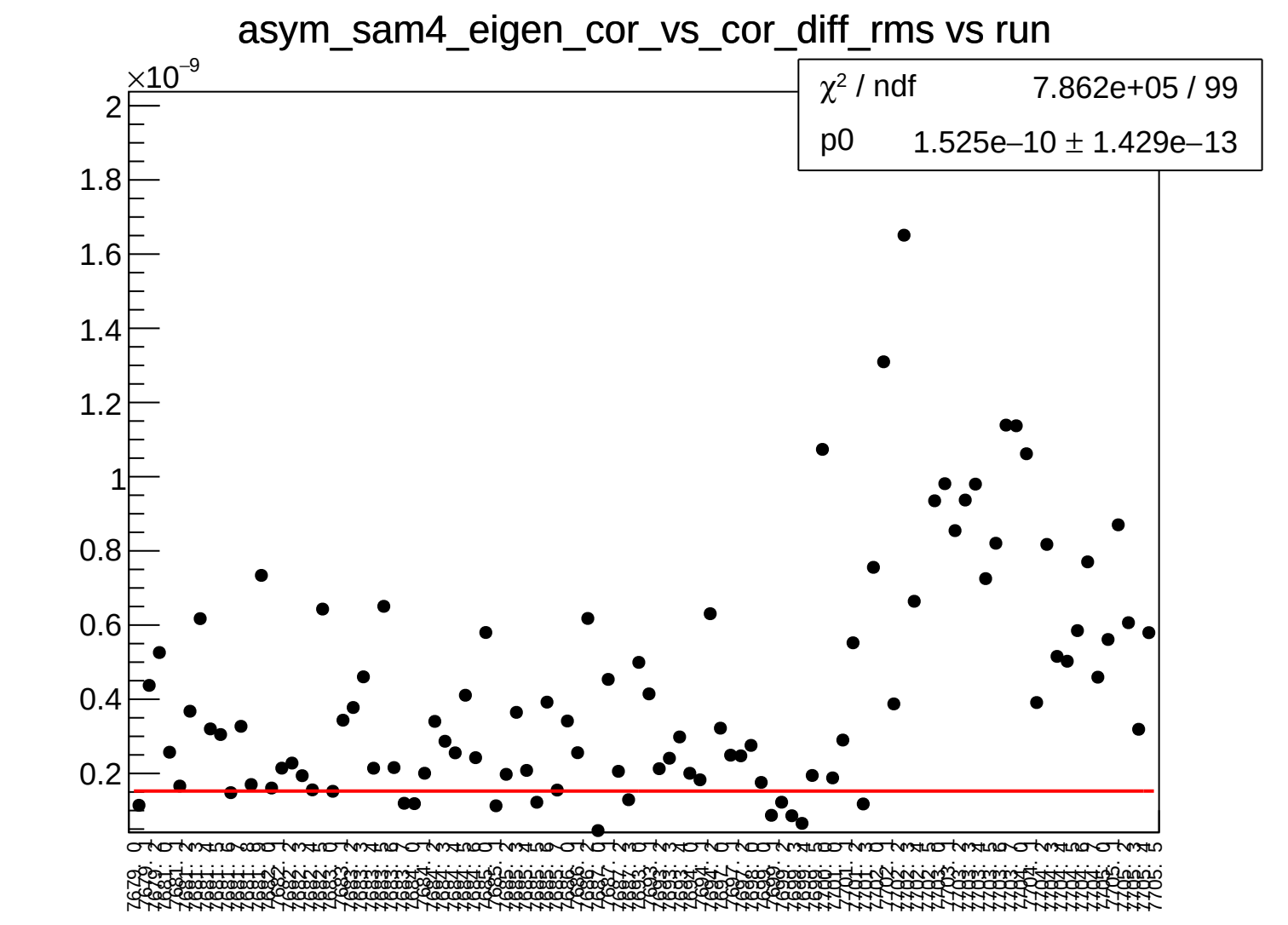

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.15 / 99
p0 −0.05522 ± 0.1486
pull
Entries 100
Mean −58.59
Std Dev 0

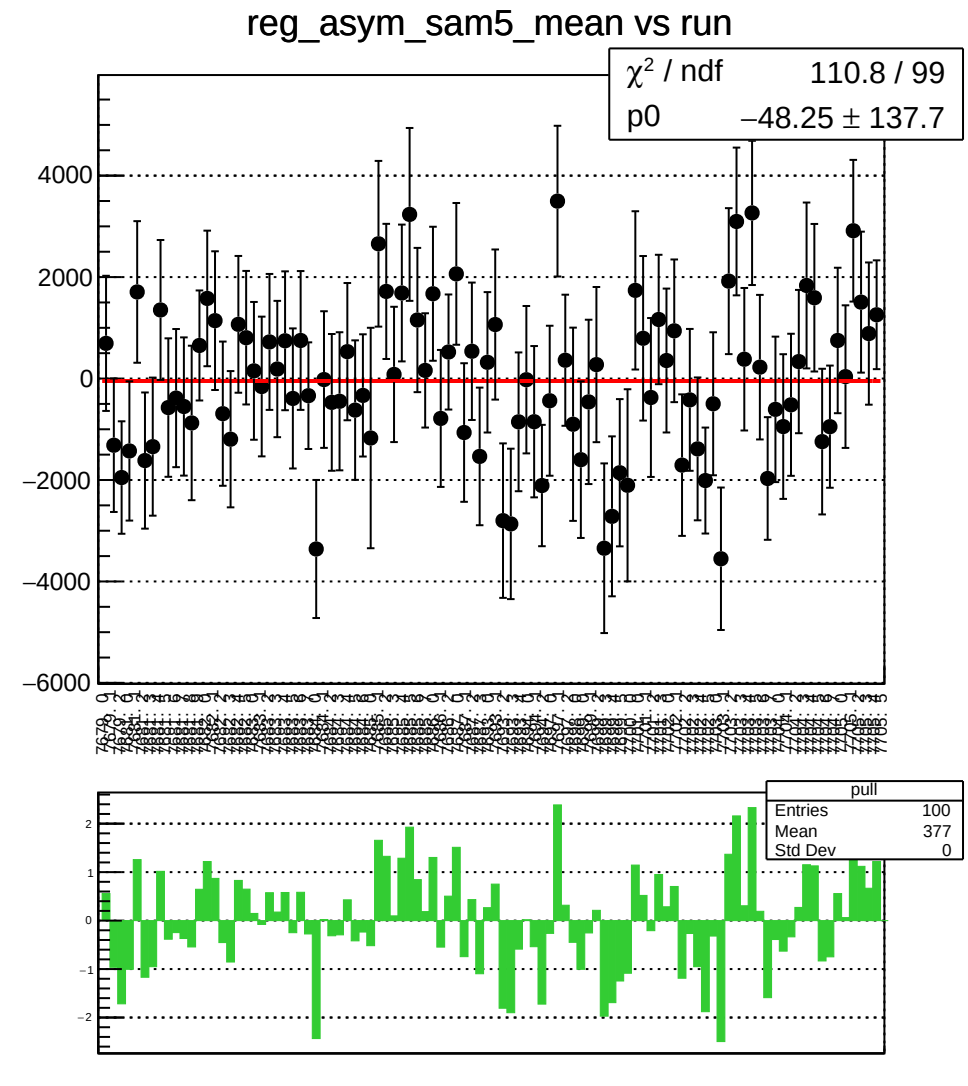

pull1D
Entries 100
Mean −0.009501
Std Dev 0.9389

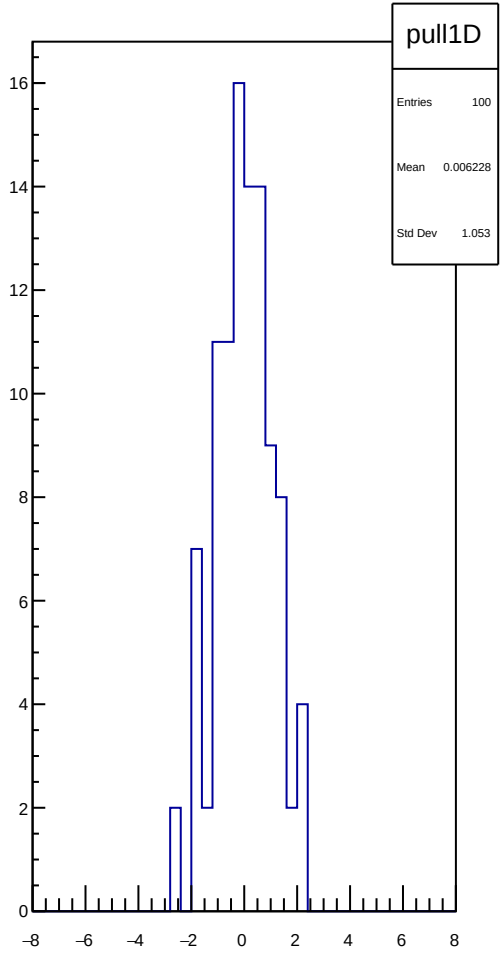

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.883e+04 / 99
p0 144.3 ± 0.1051
600
500
400
300
200
100

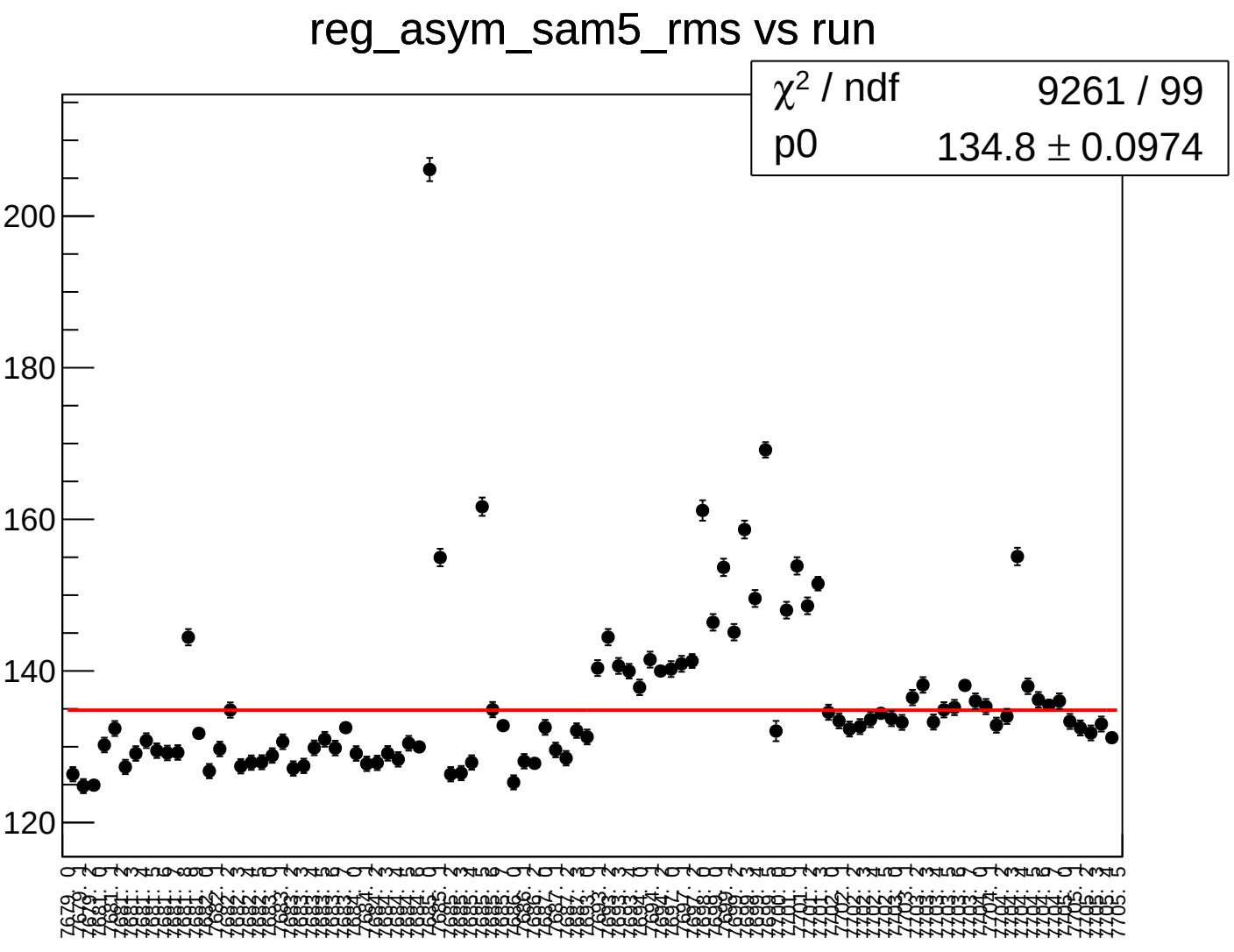

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 114.2 / 99
p0 1.315e−13 ± 2.021e−13
pull
Entries 100
Mean 71.79
Std Dev 47.59

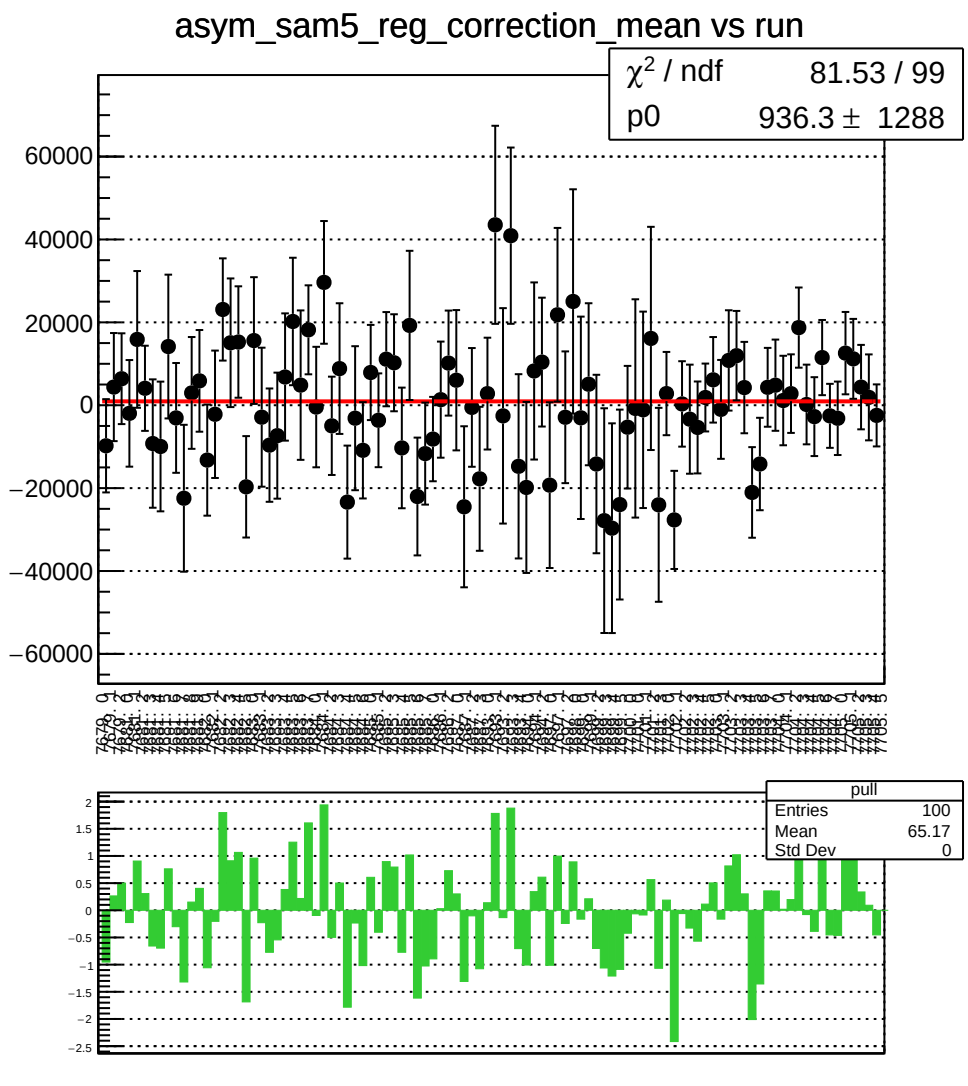

pull1D
Entries 100
Mean −0.05967
Std Dev 1.067

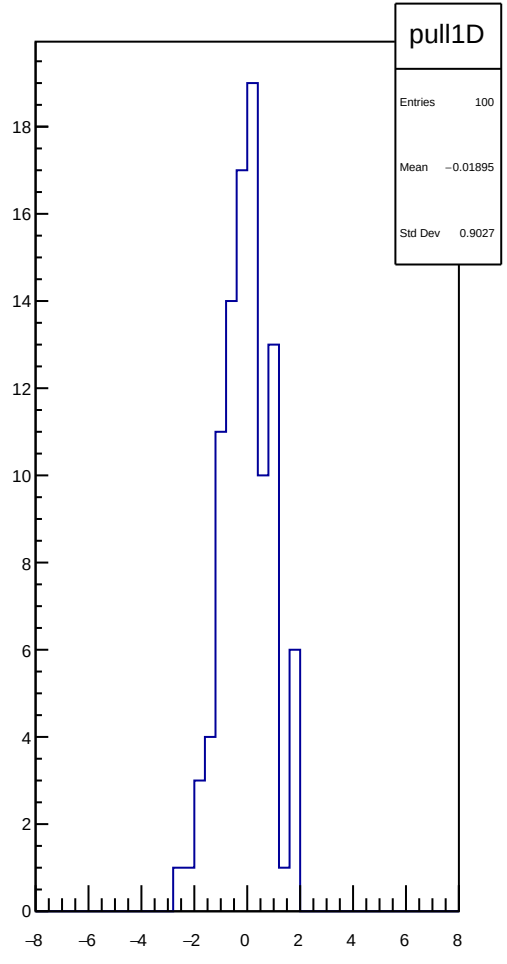

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.862e+05 / 99
p0 1.525e−10 ± 1.429e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

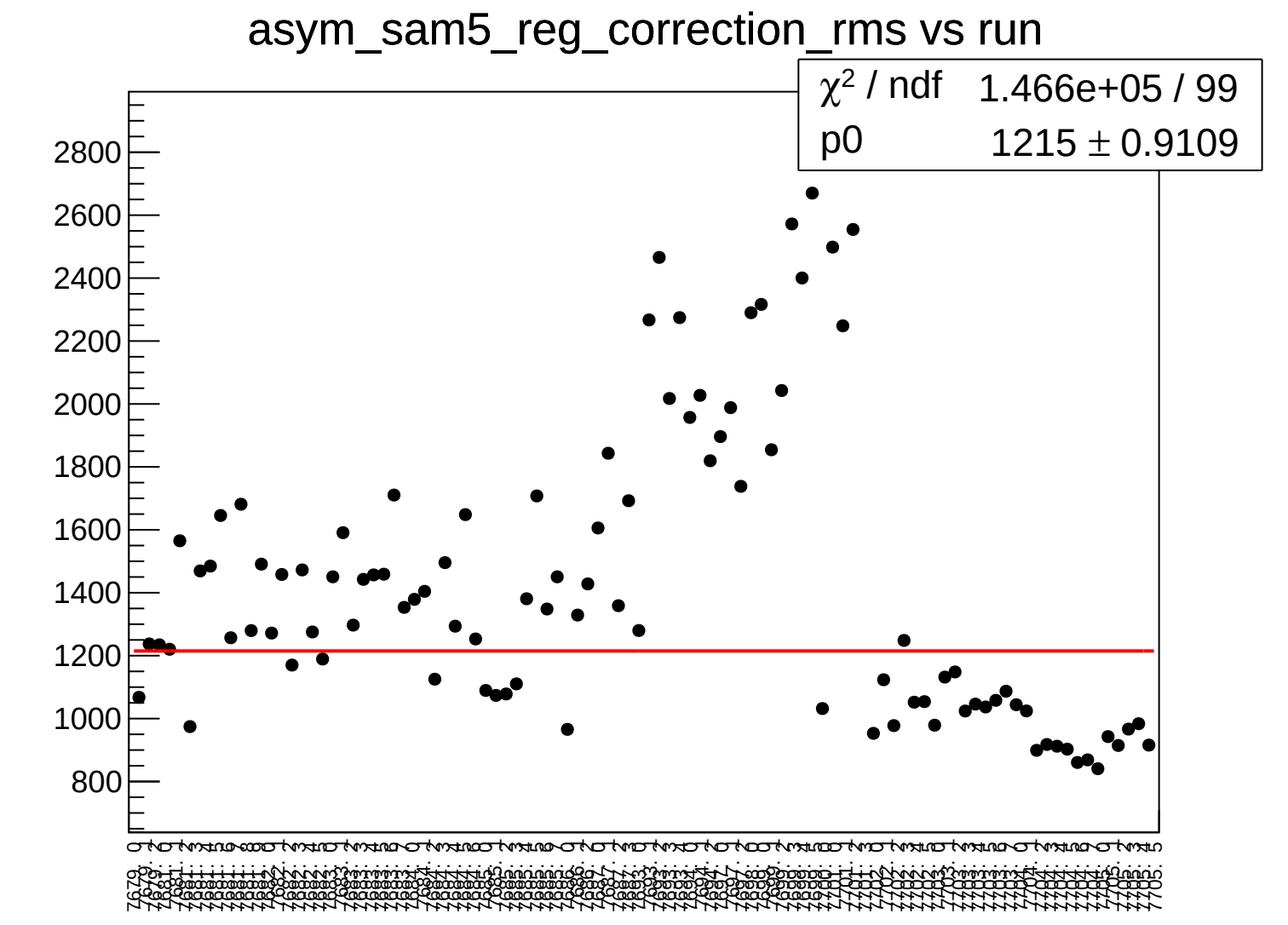

reg_asym_sam5_mean vs run
χ² / ndf 110.8 / 99
p0 −48.25 ± 137.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 377
Std Dev 0
2
1
0
−1
−2

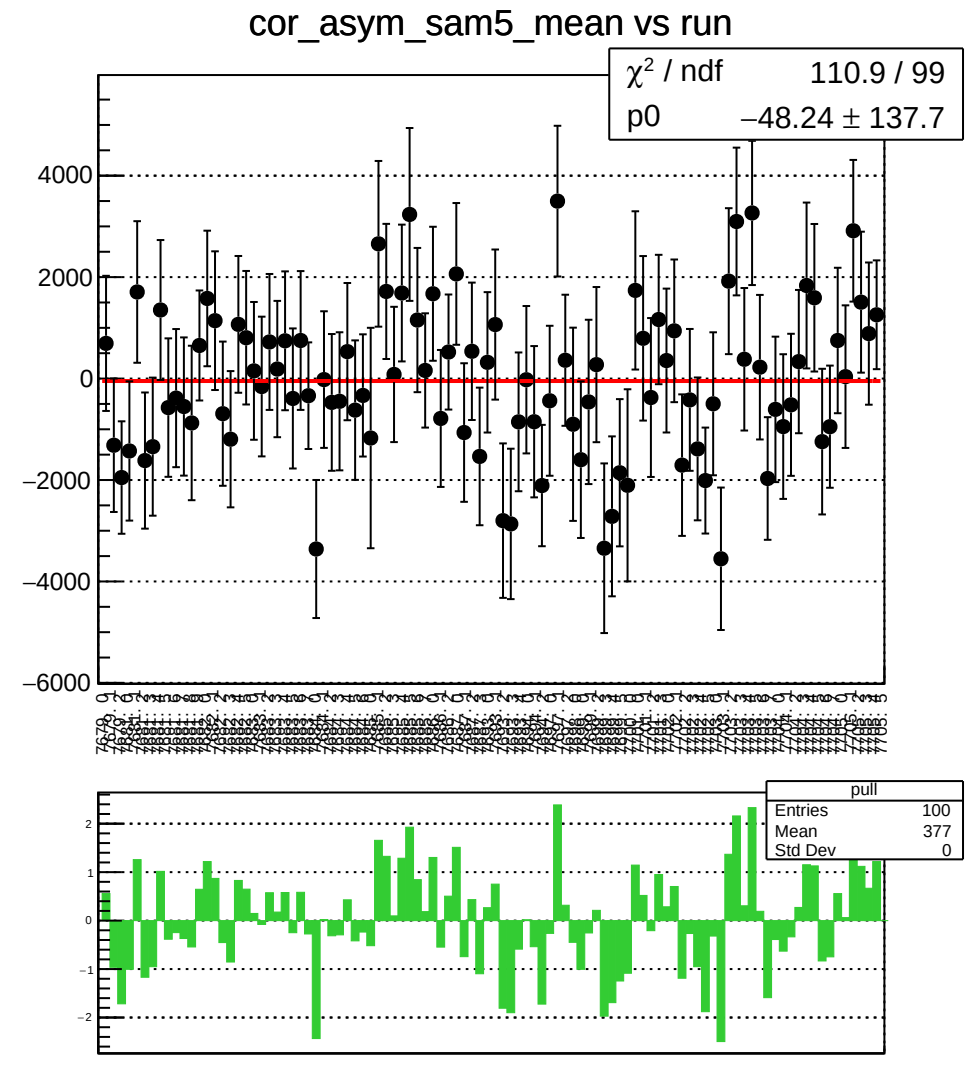

pull1D
Entries 100
Mean 0.006228
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

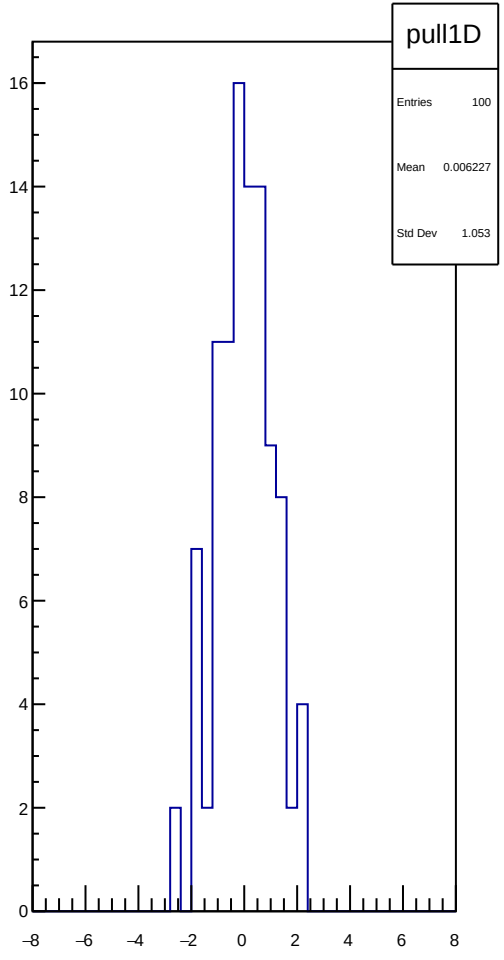

reg_asym_sam5_rms vs run
χ² / ndf 9261 / 99
p0 134.8 ± 0.0974
200
180
160
140
120

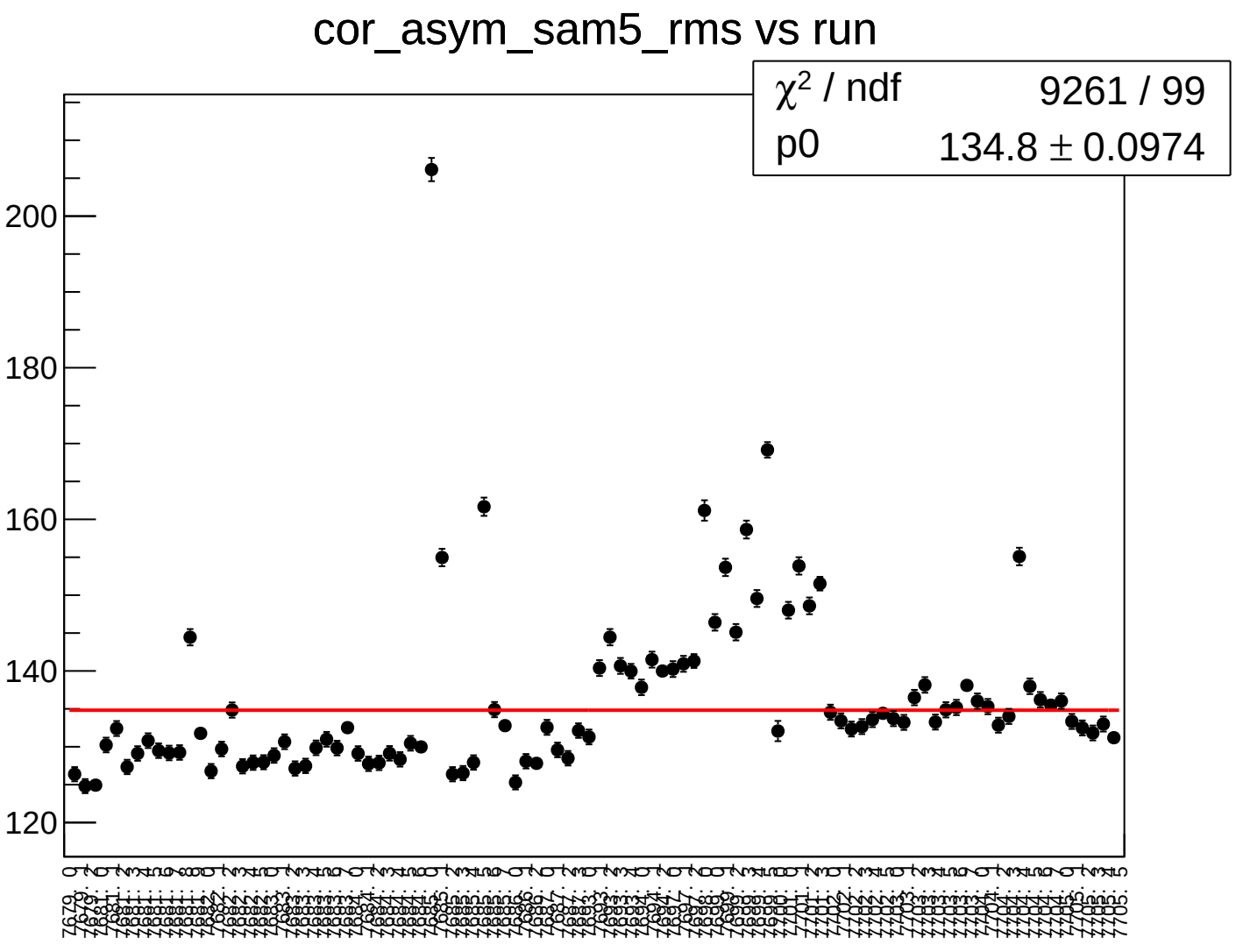

asym_sam5_reg_correction_mean vs run
χ² / ndf 81.53 / 99
p0 936.3 ± 1288
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean 65.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

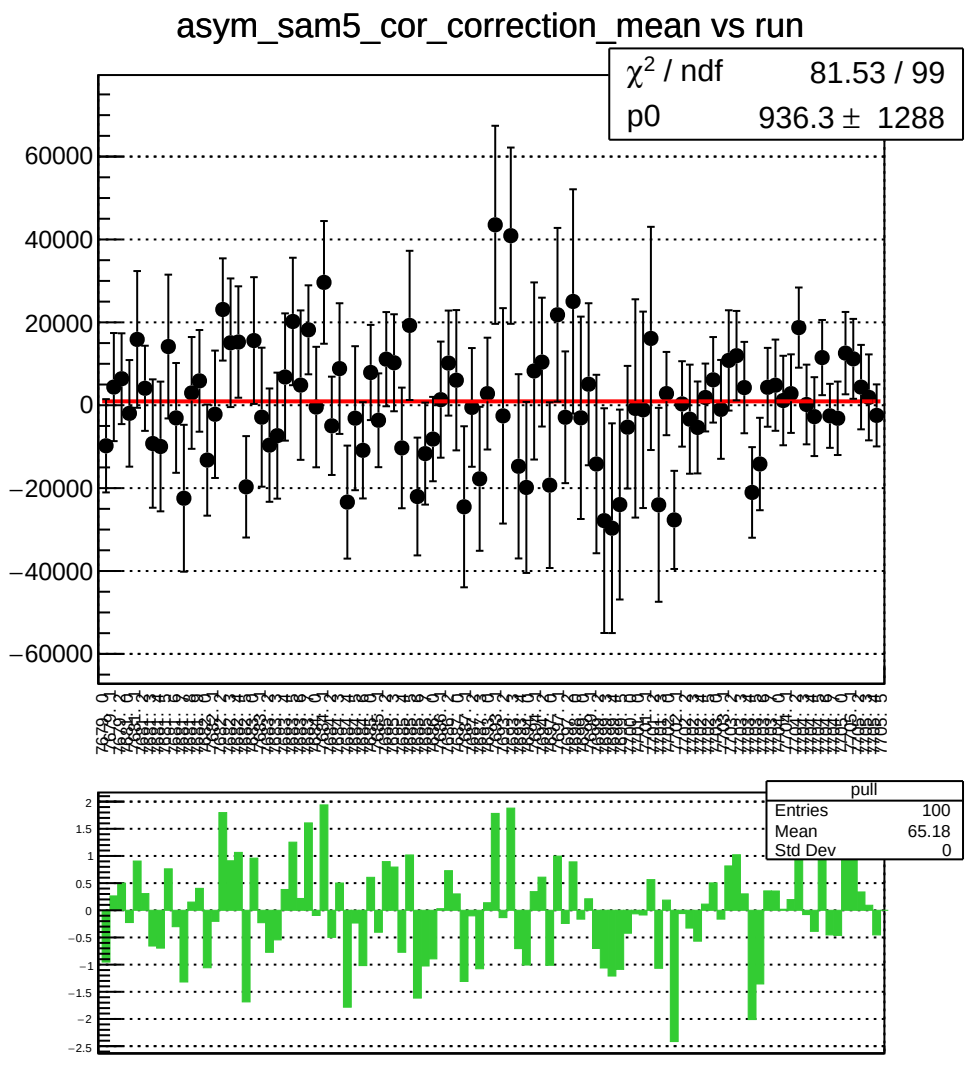

pull1D
Entries 100
Mean −0.01895
Std Dev 0.9027
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

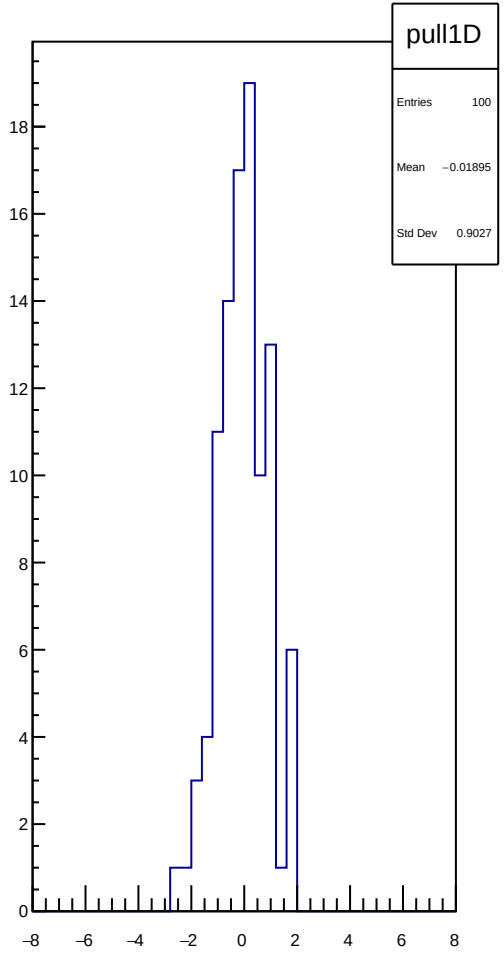

asym_sam5_reg_correction_rms vs run
χ² / ndf 1.466e+05 / 99
p0 1215 ± 0.9109
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800


cor_asym_sam5_mean vs run
χ² / ndf 110.9 / 99
p0 −48.24 ± 137.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 377
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 100
Mean 0.006227
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam5_rms vs run
χ^2 / ndf 9261 / 99
p0 134.8 ± 0.0974
200
180
160
140
120


asym_sam5_cor_correction_mean vs run
χ² / ndf 81.53 / 99
p0 936.3 ± 1288
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean 65.18
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 100
Mean −0.01895
Std Dev 0.9027
18
16
14
12
10
8
6
4
2
0
−8
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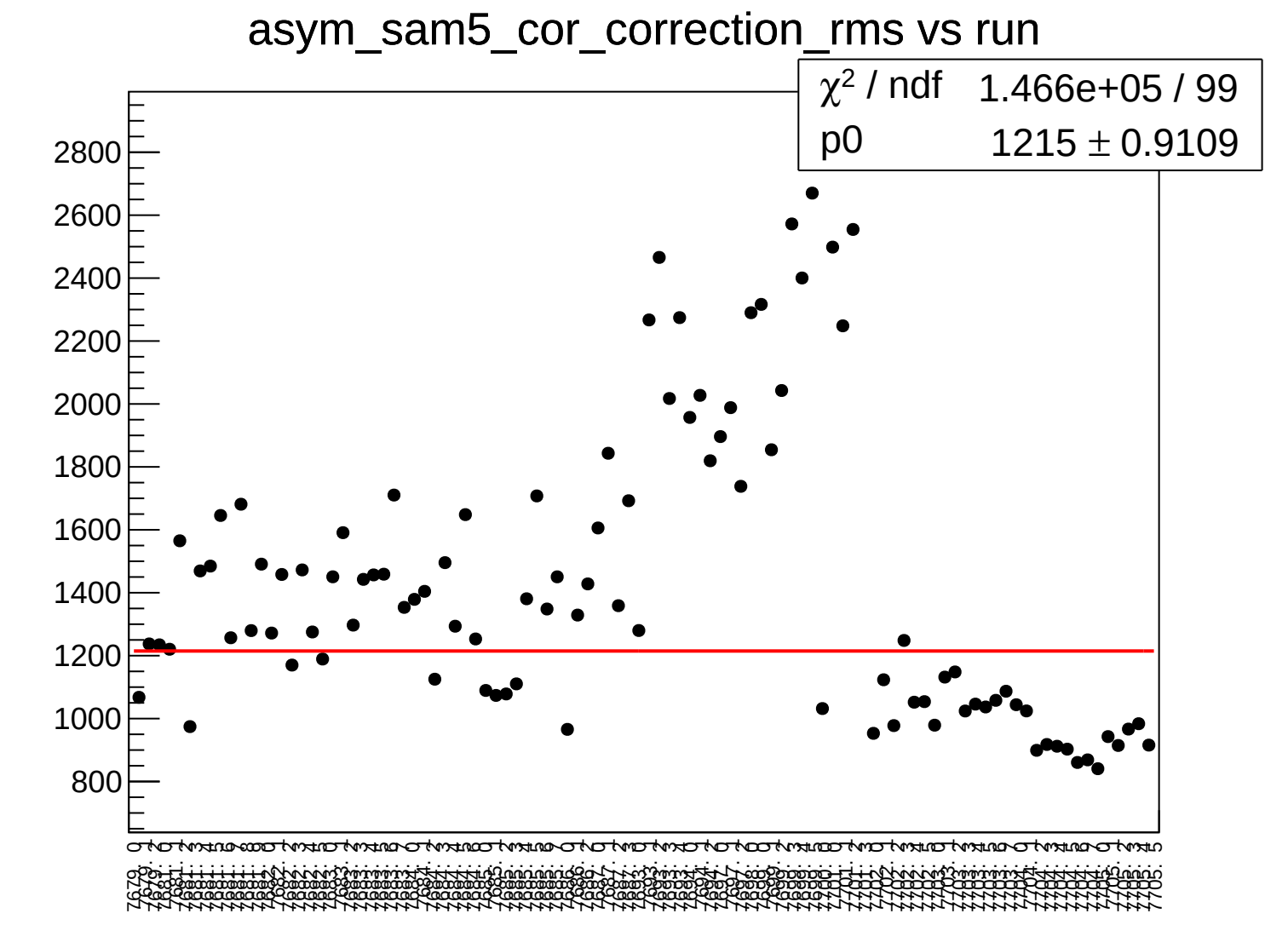
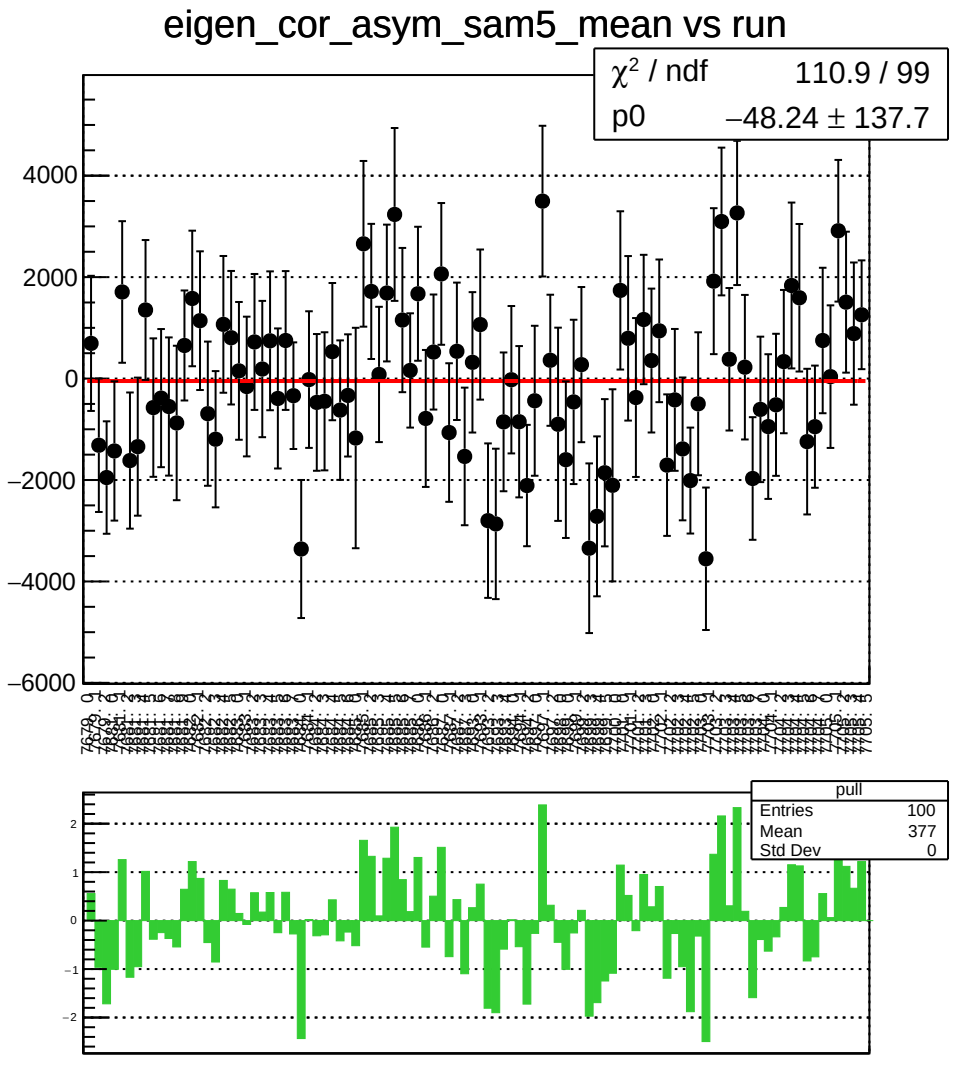
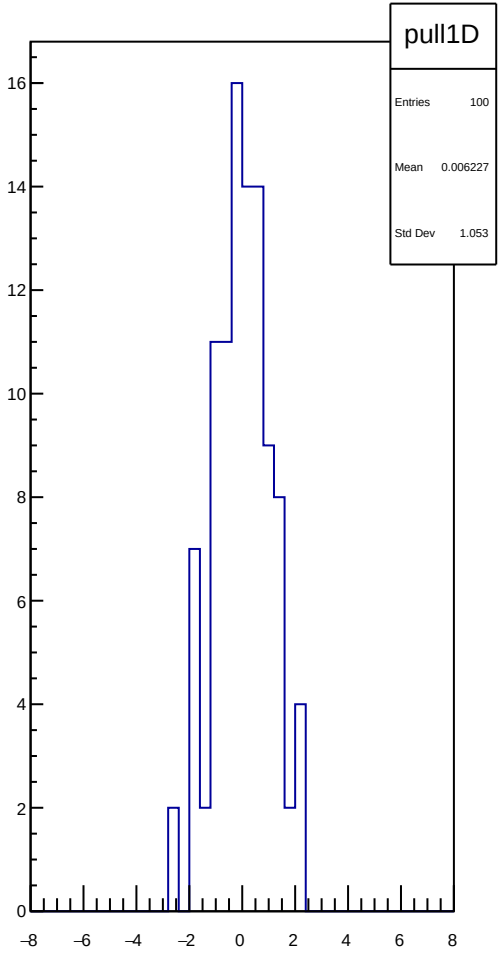
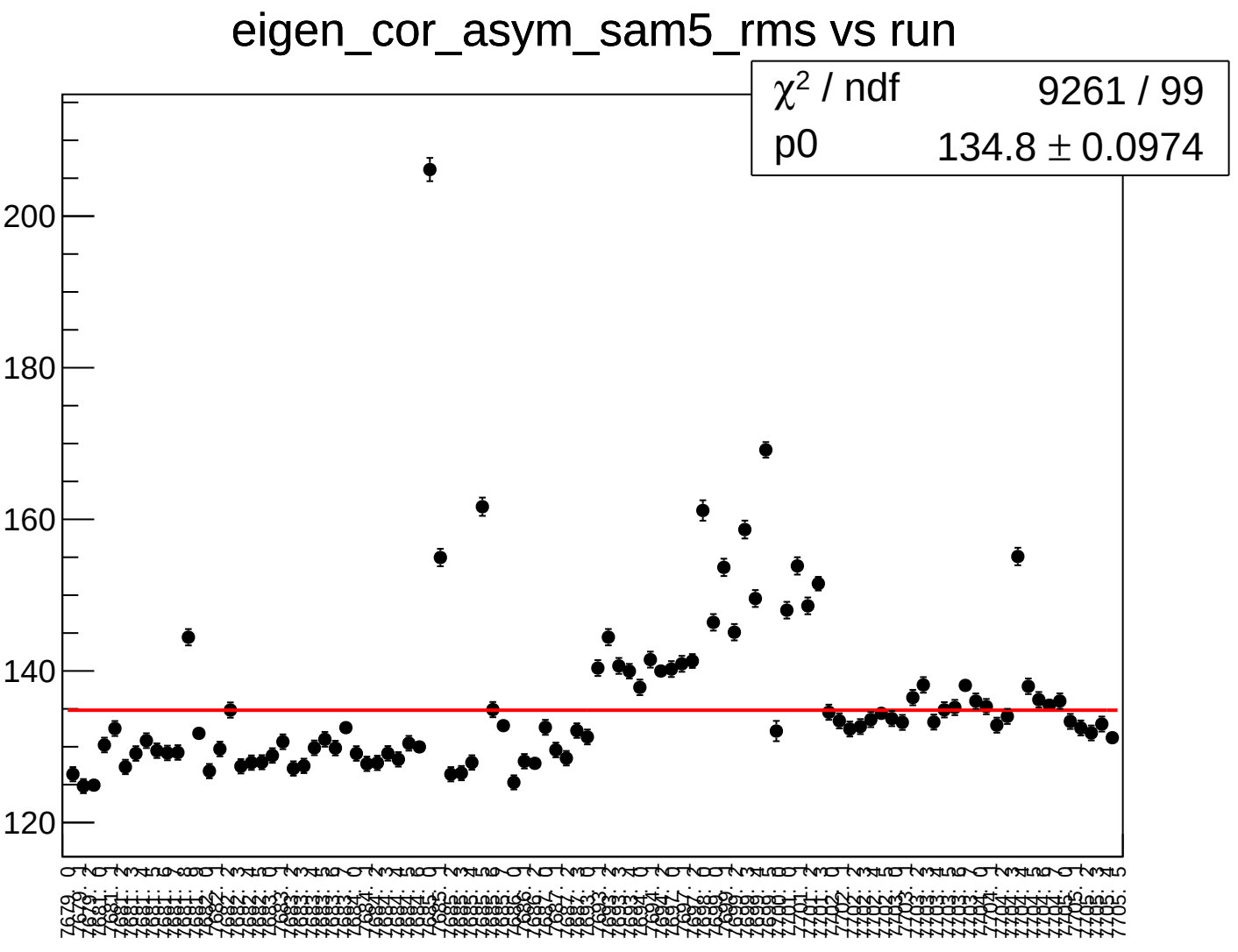
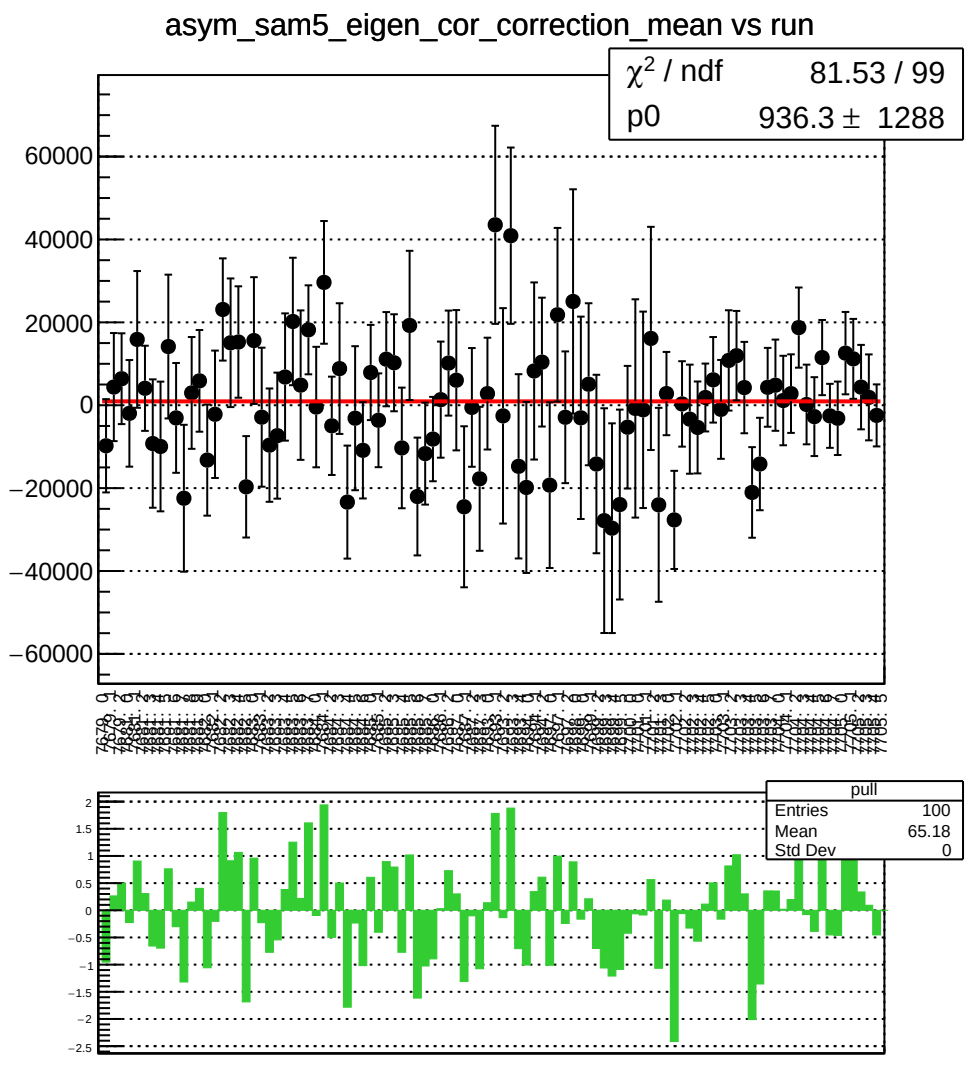
0
2
4
6
8

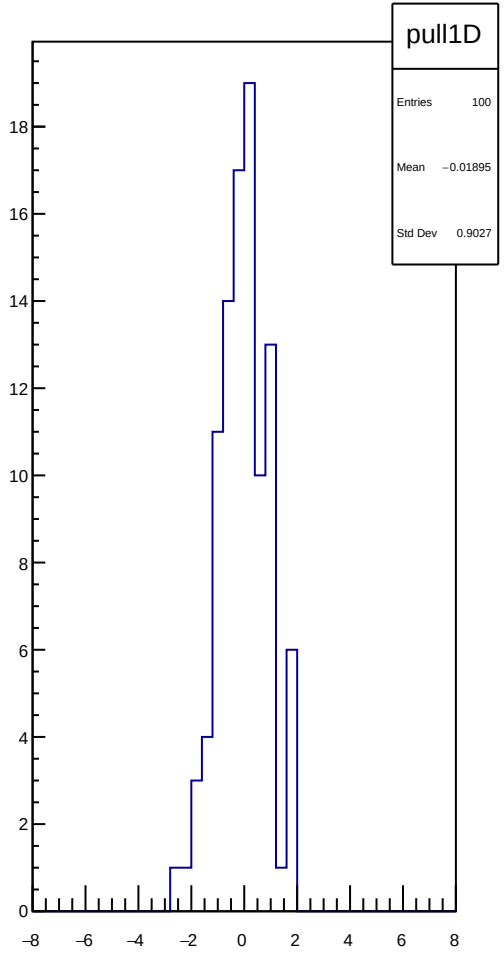

asym_sam5_cor_correction_rms vs run
χ² / ndf 1.466e+05 / 99
p0 1215 ± 0.9109
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800

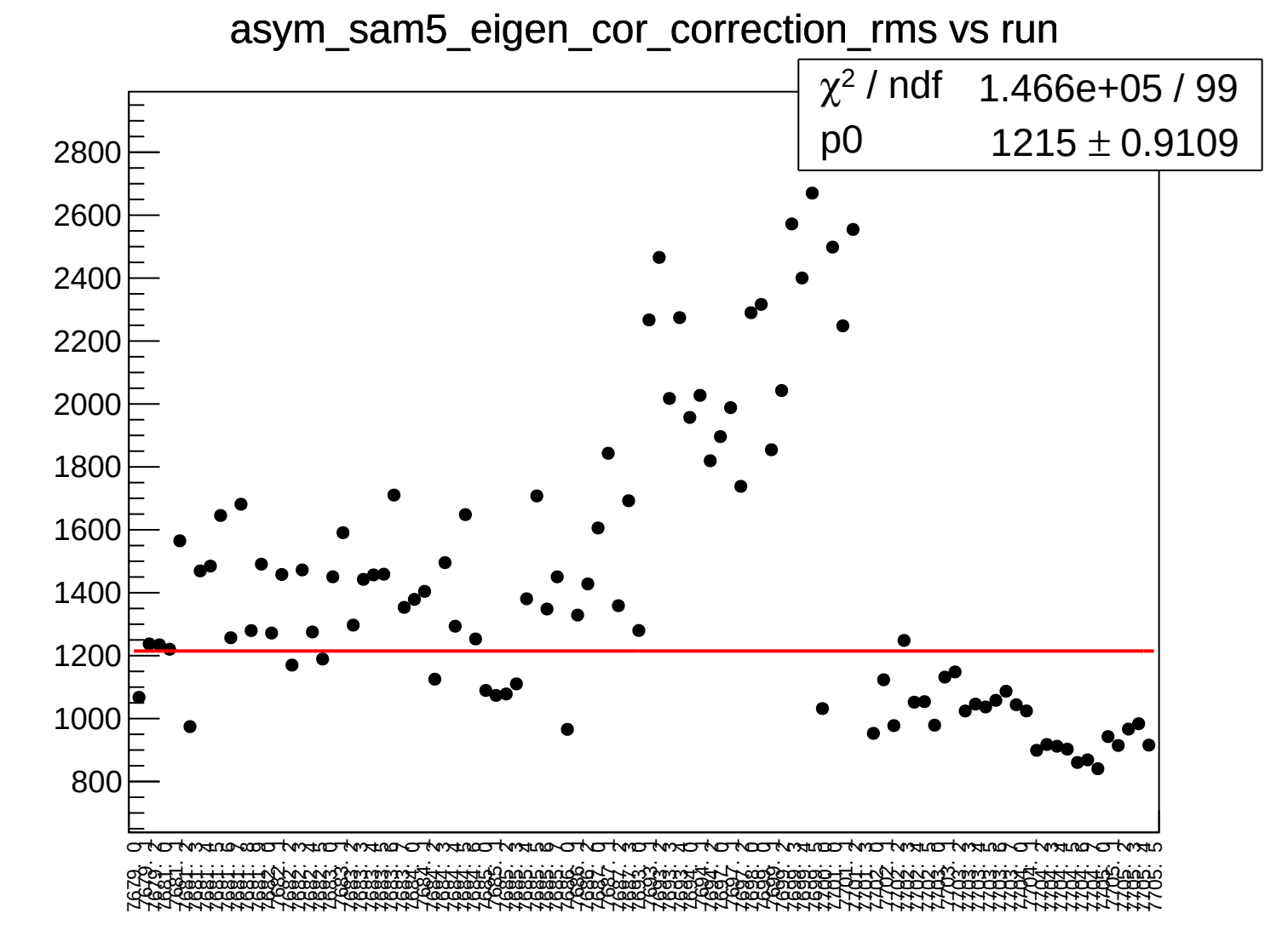

eigen_cor_asym_sam5_mean vs run
χ² / ndf 110.9 / 99
p0 −48.24 ± 137.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 377
Std Dev 0
2
1
0
−1
−2

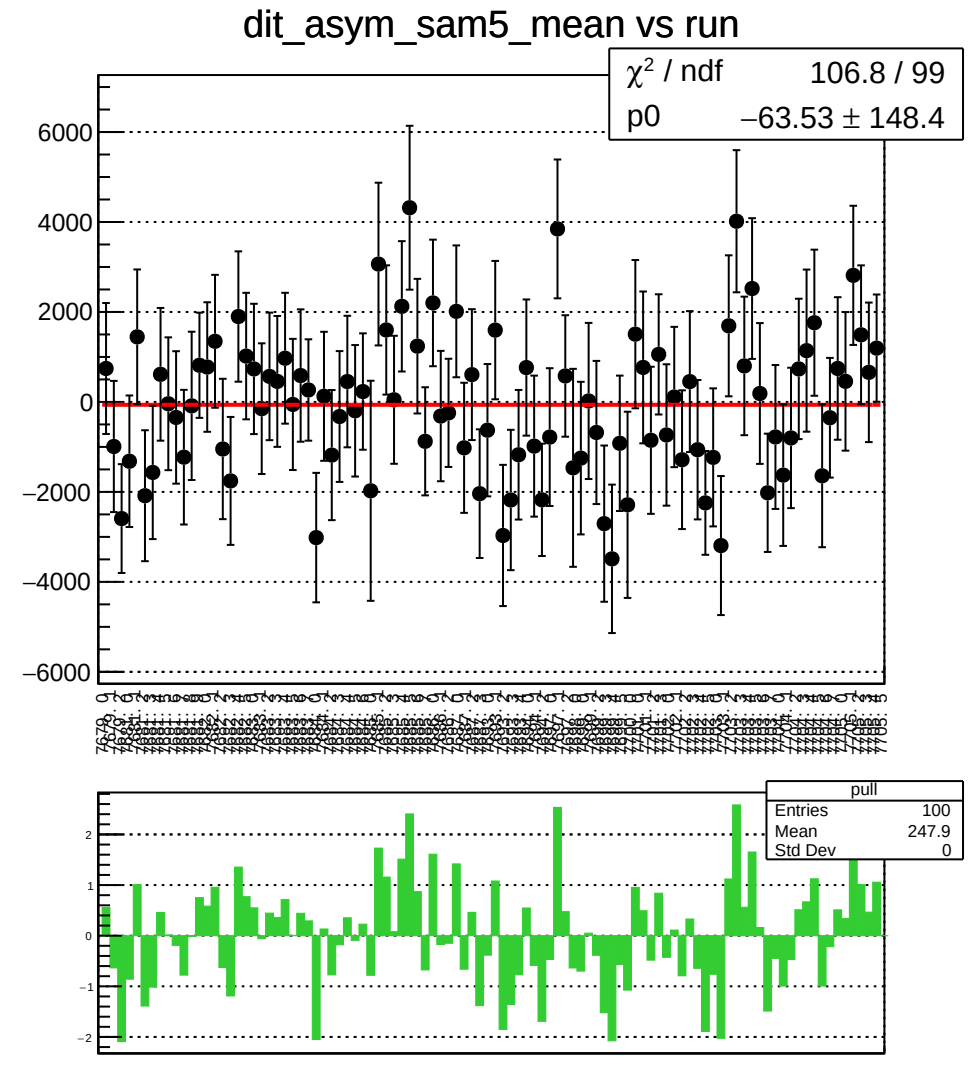

pull1D
Entries 100
Mean 0.006227
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

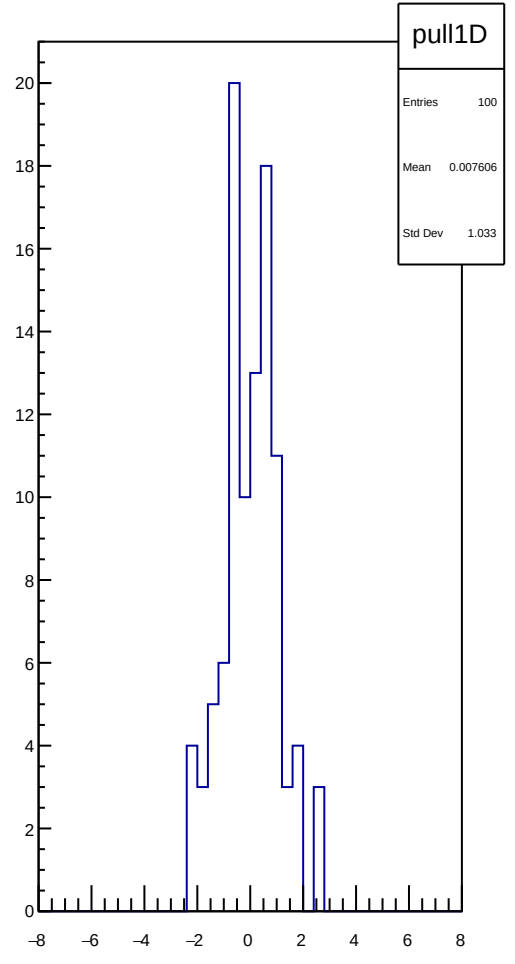

eigen_cor_asym_sam5_rms vs run
χ² / ndf 9261 / 99
p0 134.8 ± 0.0974
200
180
160
140
120

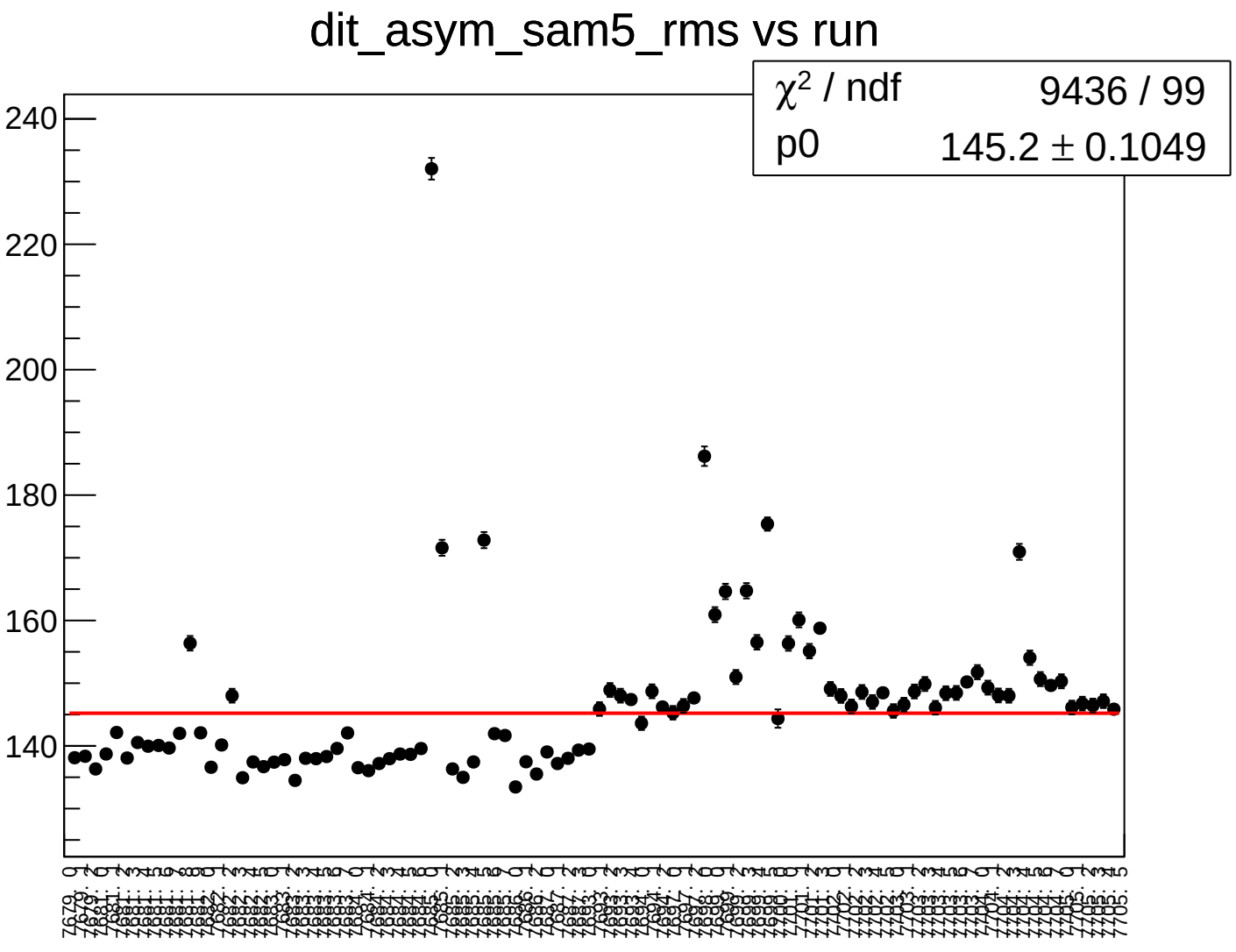

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 81.53 / 99
p0 936.3 ± 1288
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean 65.18
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

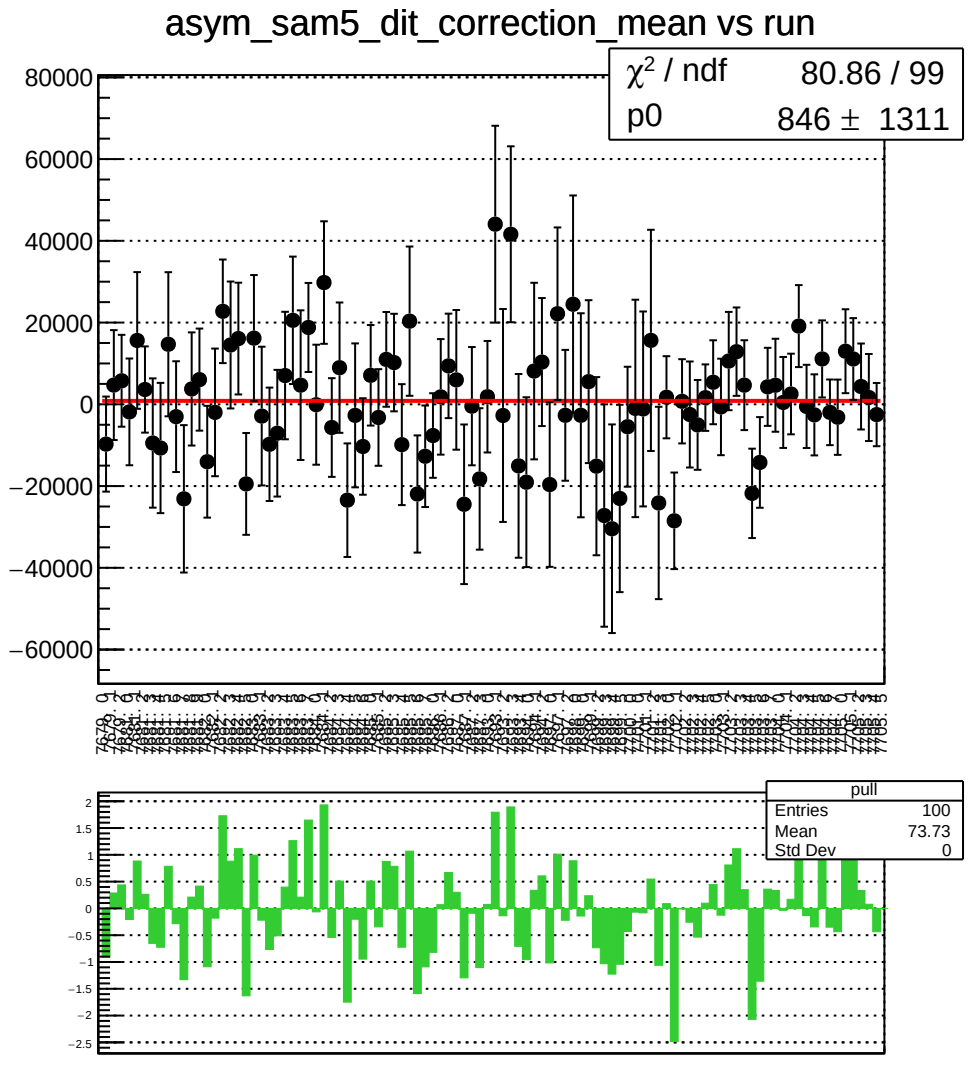

pull1D
Entries 100
Mean −0.01895
Std Dev 0.9027
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

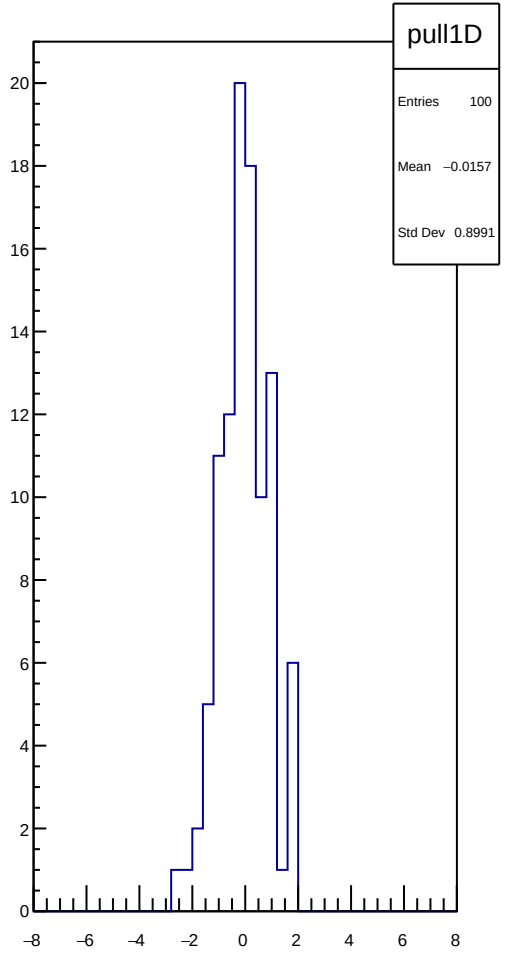

asym_sam5_eigen_cor_correction_rms vs run
χ^2 / ndf 1.466e+05 / 99
p0 1215 ± 0.9109
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800

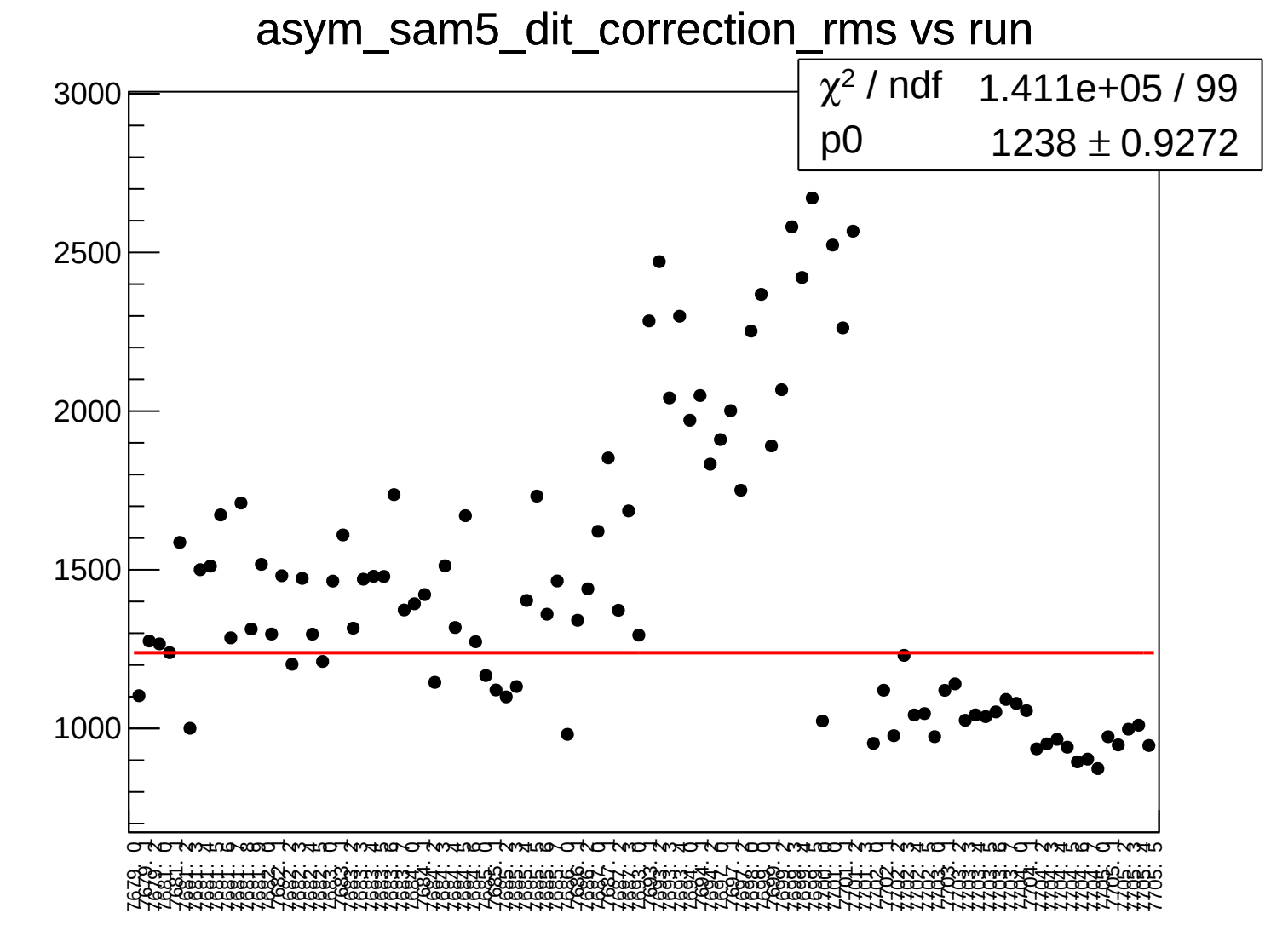

dit_asym_sam5_mean vs run
χ² / ndf 106.8 / 99
p0 −63.53 ± 148.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 247.9
Std Dev 0
2
1
0
−1
−2

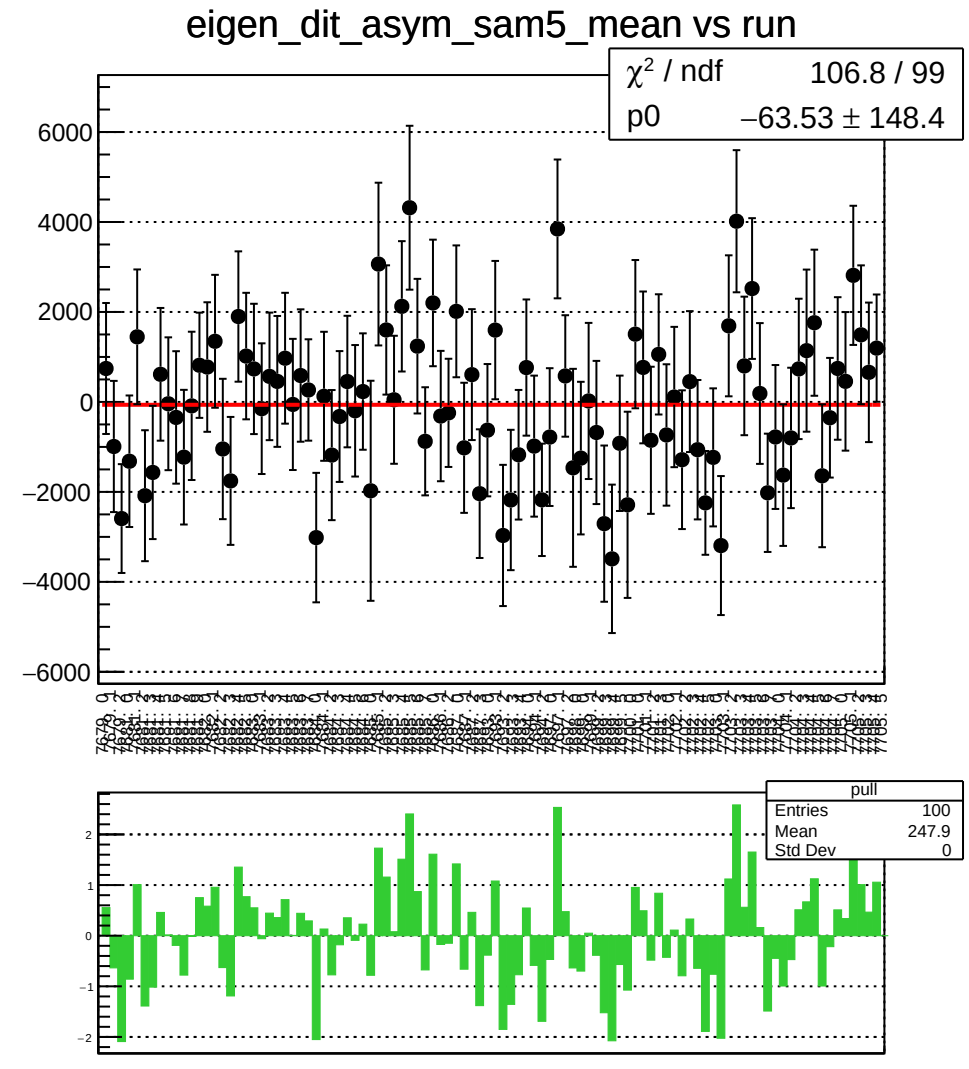

pull1D
Entries 100
Mean 0.007606
Std Dev 1.033
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

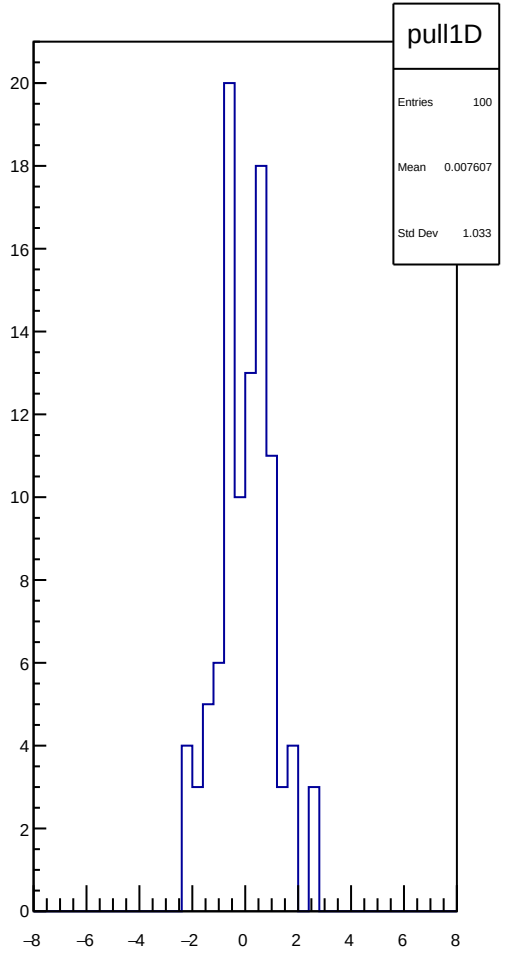

dit_asym_sam5_rms vs run
χ² / ndf 9436 / 99
p0 145.2 ± 0.1049
240
220
200
180
160
140

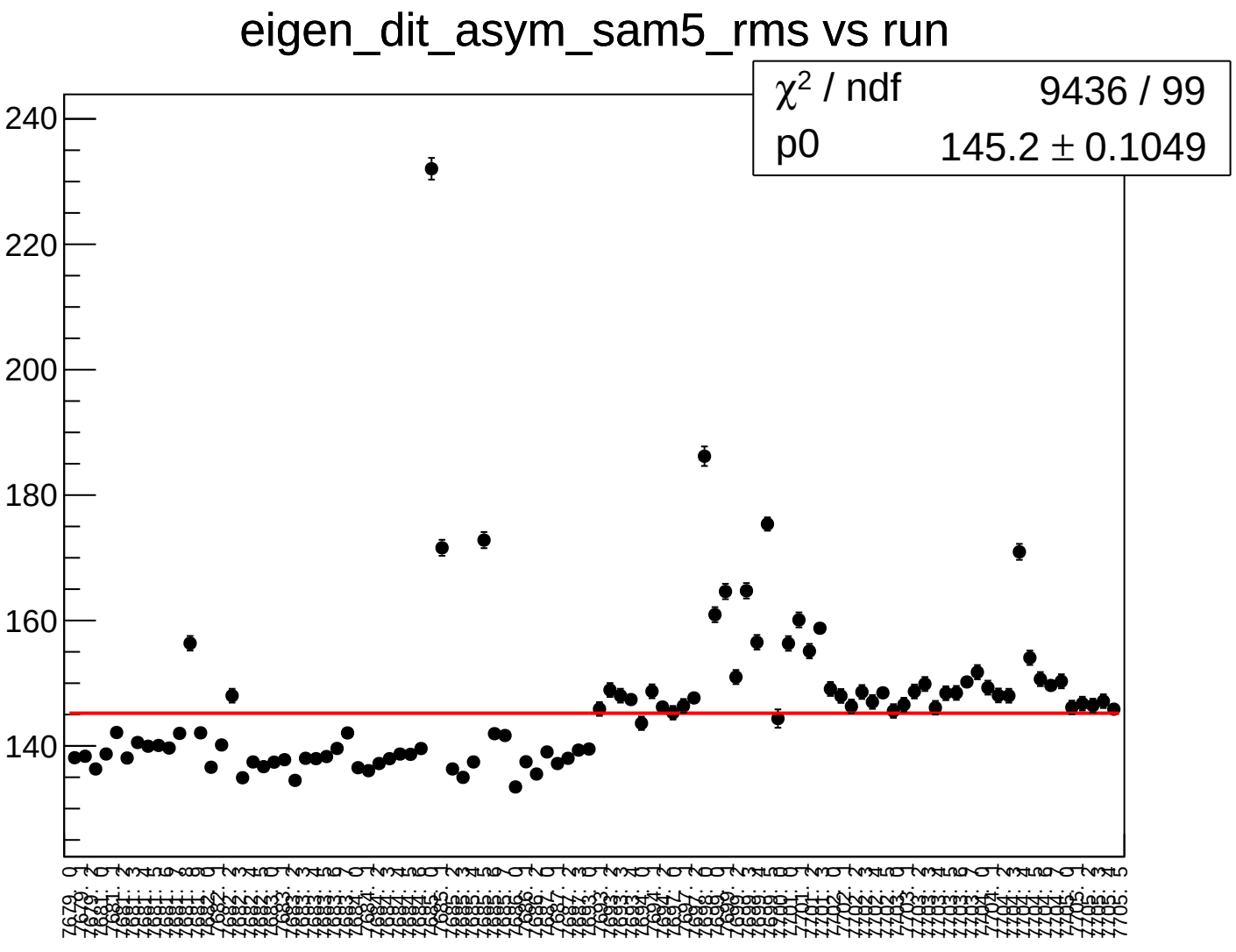

asym_sam5_dit_correction_mean vs run
χ² / ndf 80.86 / 99
p0 846 ± 1311
pull
Entries 100
Mean 73.73
Std Dev 0

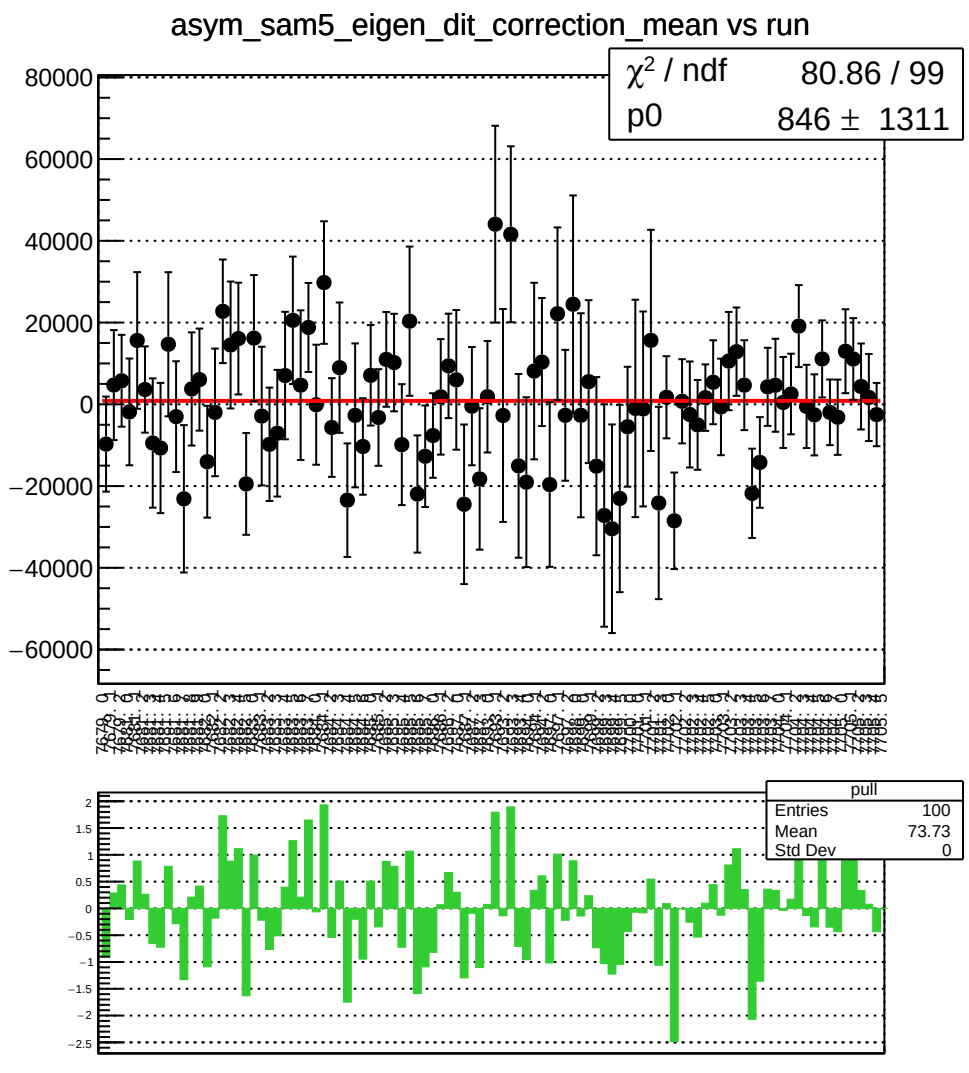

pull1D
Entries 100
Mean −0.0157
Std Dev 0.8991

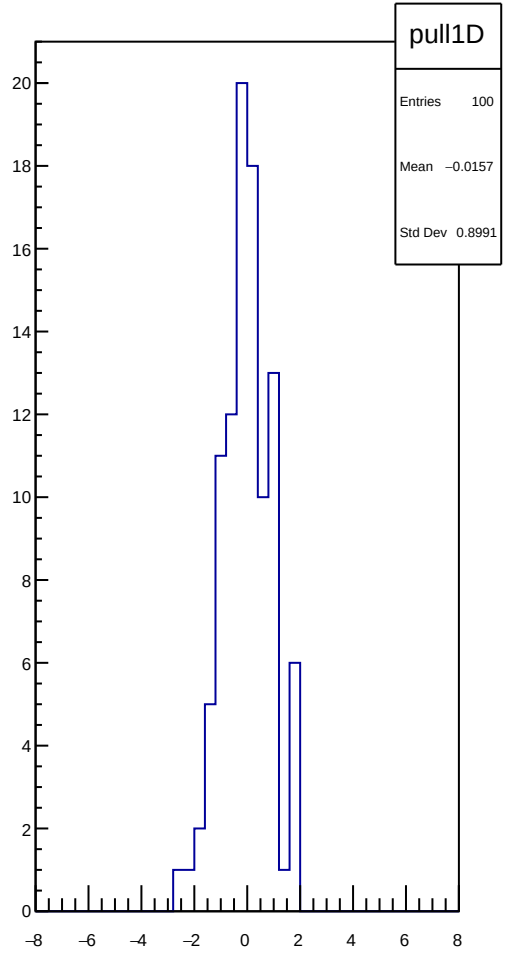

asym_sam5_dit_correction_rms vs run
χ^2 / ndf 1.411e+05 / 99
p0 1238 ± 0.9272
3000
2500
2000
1500
1000

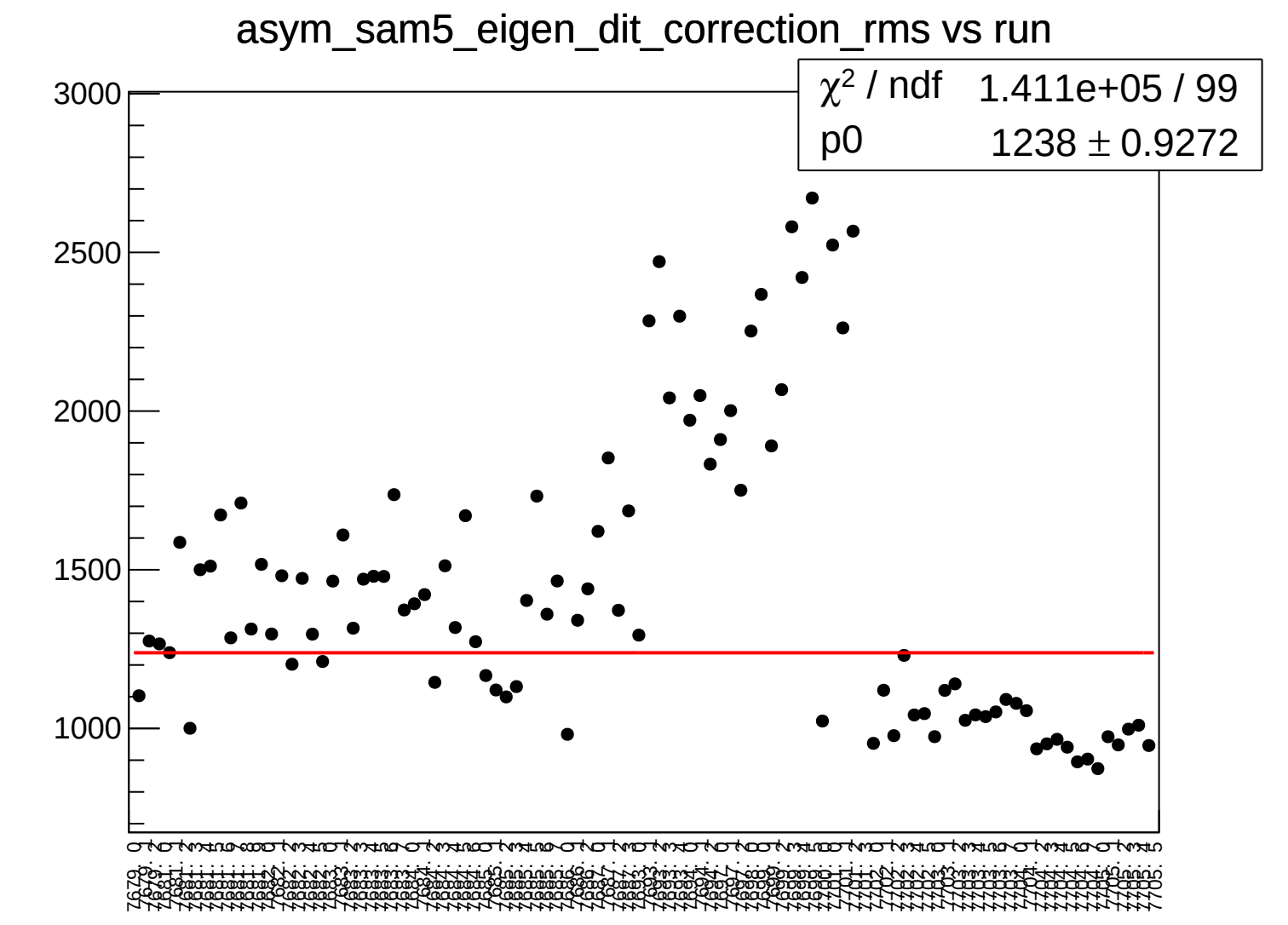

eigen_dit_asym_sam5_mean vs run
χ² / ndf 106.8 / 99
p0 −63.53 ± 148.4
pull
Entries 100
Mean 247.9
Std Dev 0

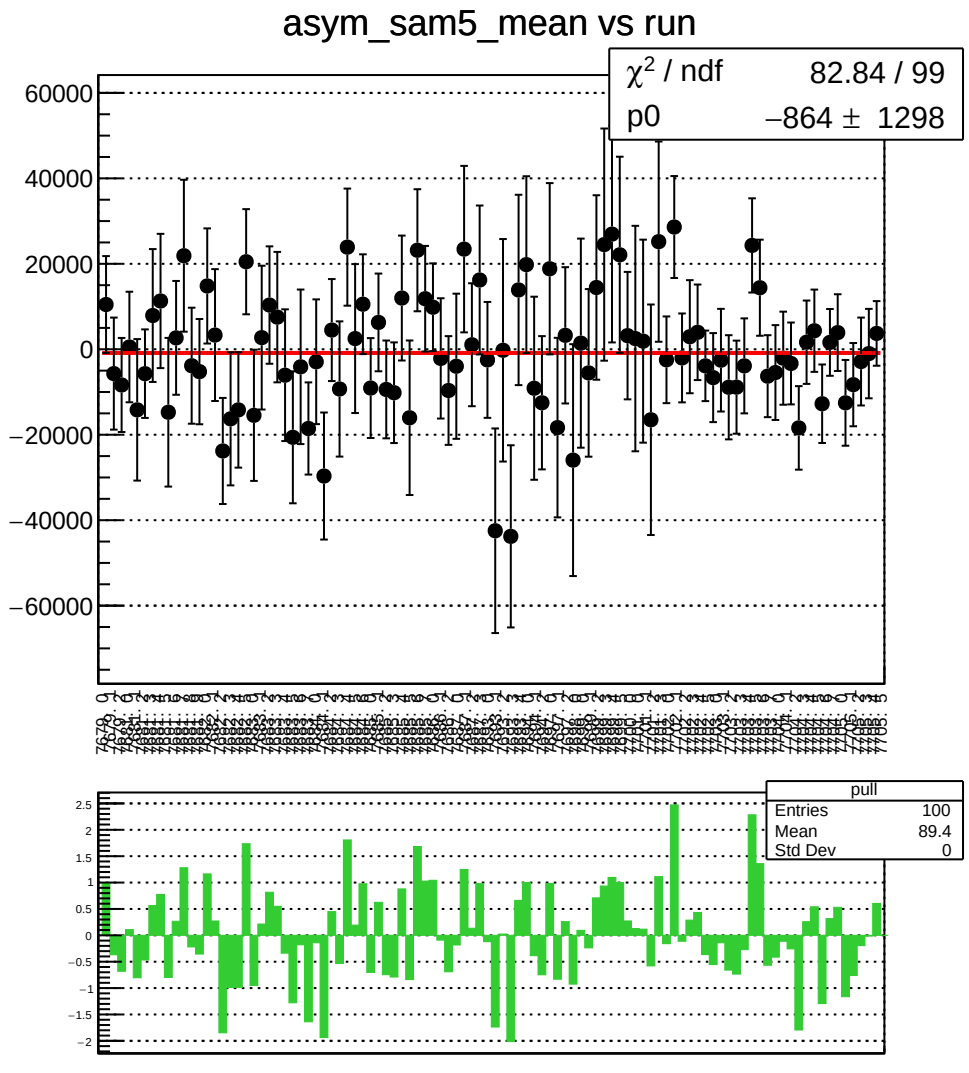

pull1D
Entries 100
Mean 0.007607
Std Dev 1.033

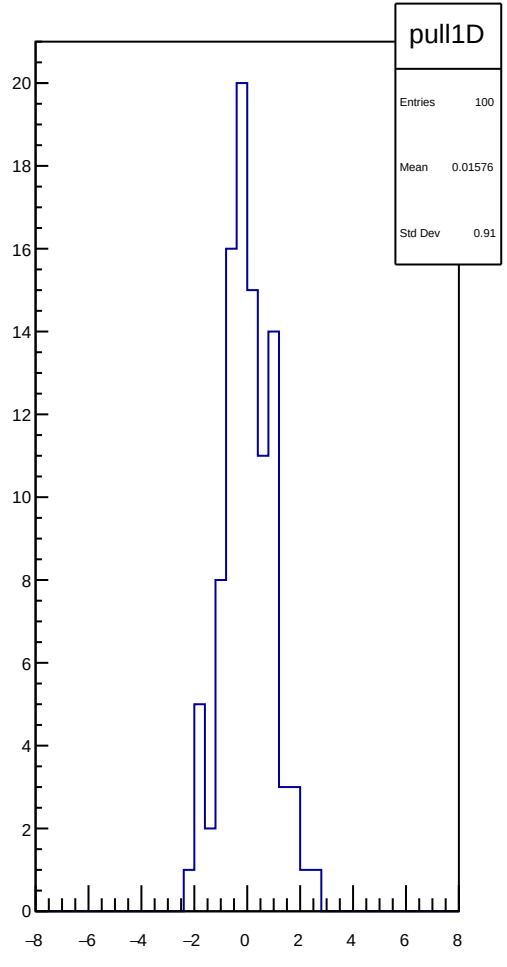

eigen_dit_asym_sam5_rms vs run
χ² / ndf 9436 / 99
p0 145.2 ± 0.1049
240
220
200
180
160
140

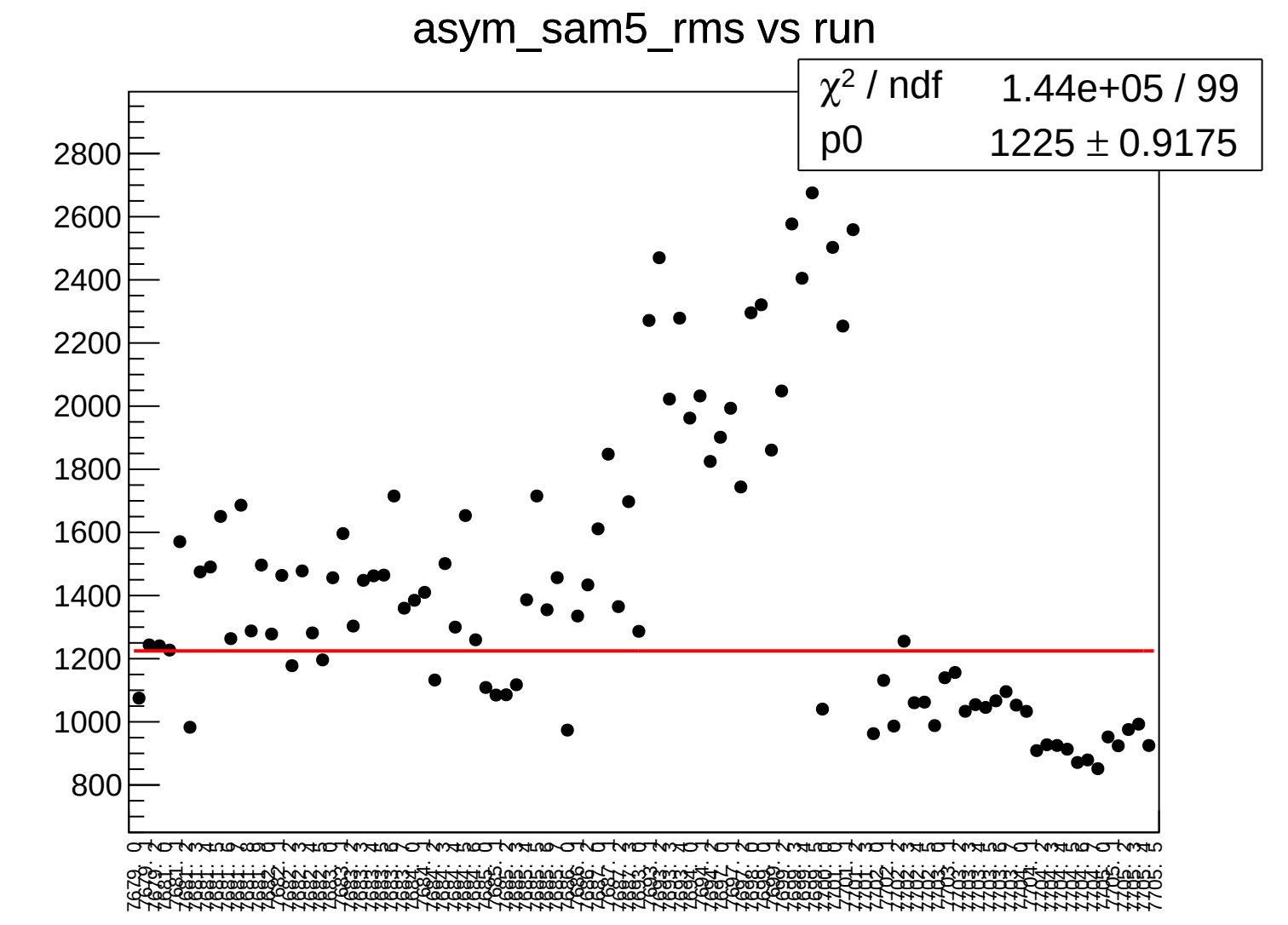

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 80.86 / 99
p0 846 ± 1311
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean 73.73
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

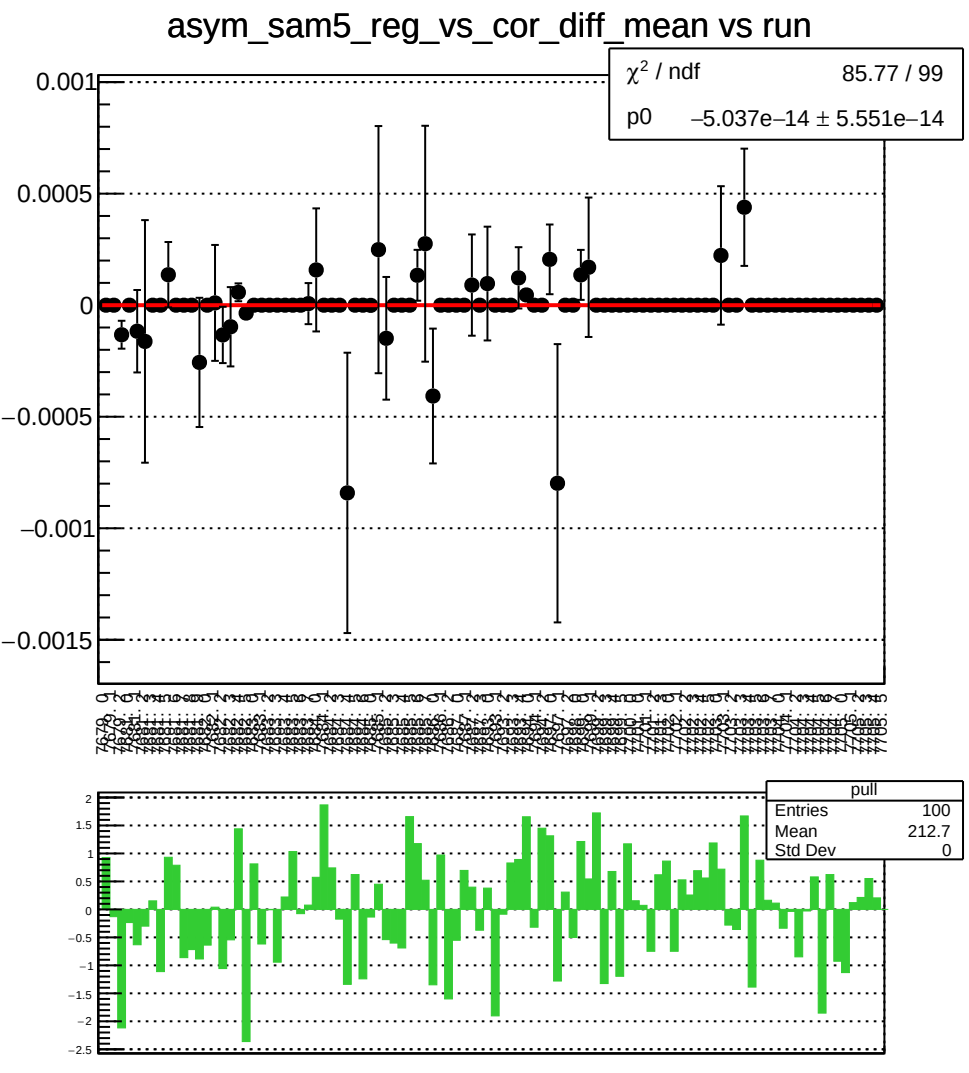

pull1D
Entries 100
Mean −0.0157
Std Dev 0.8991
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

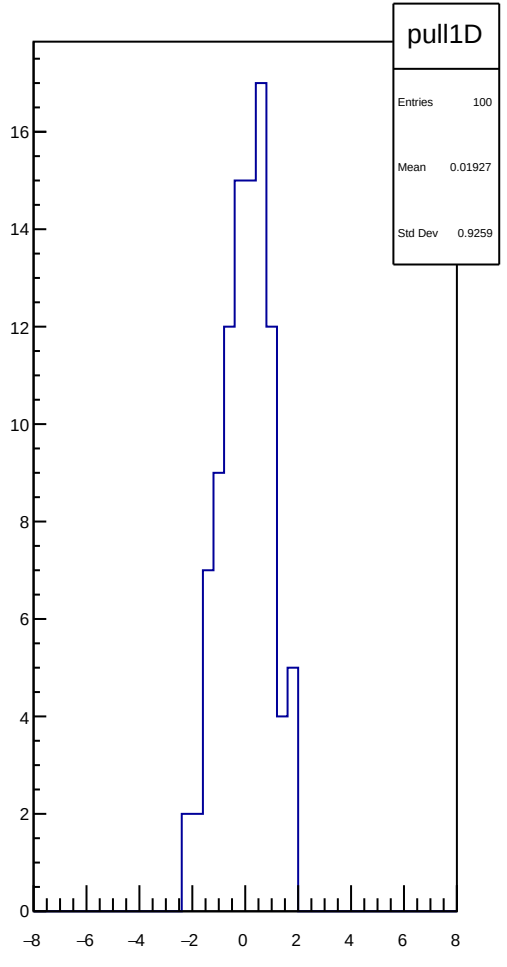

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 1.411e+05 / 99
p0 1238 ± 0.9272
3000
2500
2000
1500
1000

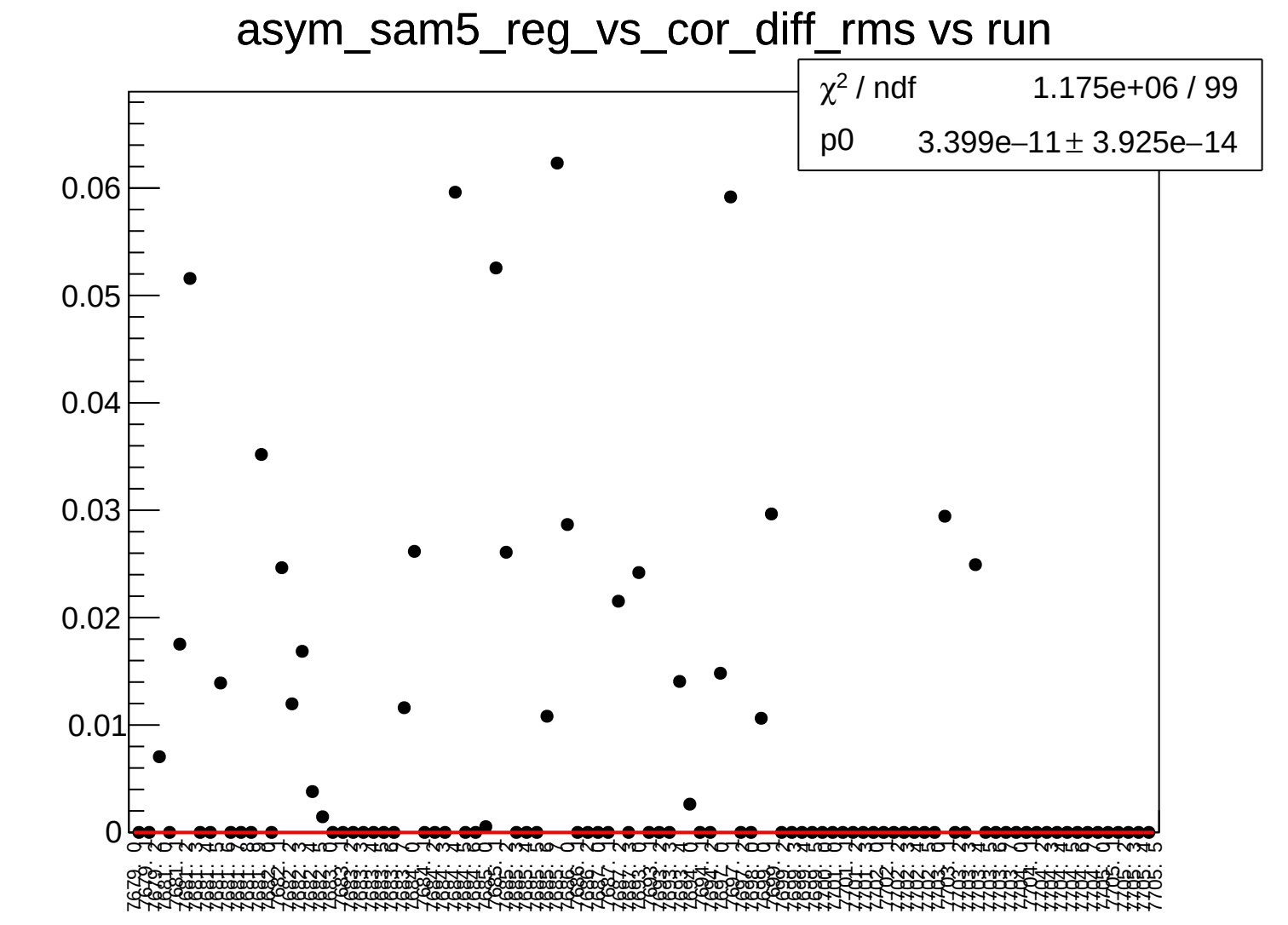

asym_sam5_mean vs run
χ² / ndf 82.84 / 99
p0 −864 ± 1298
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean 89.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

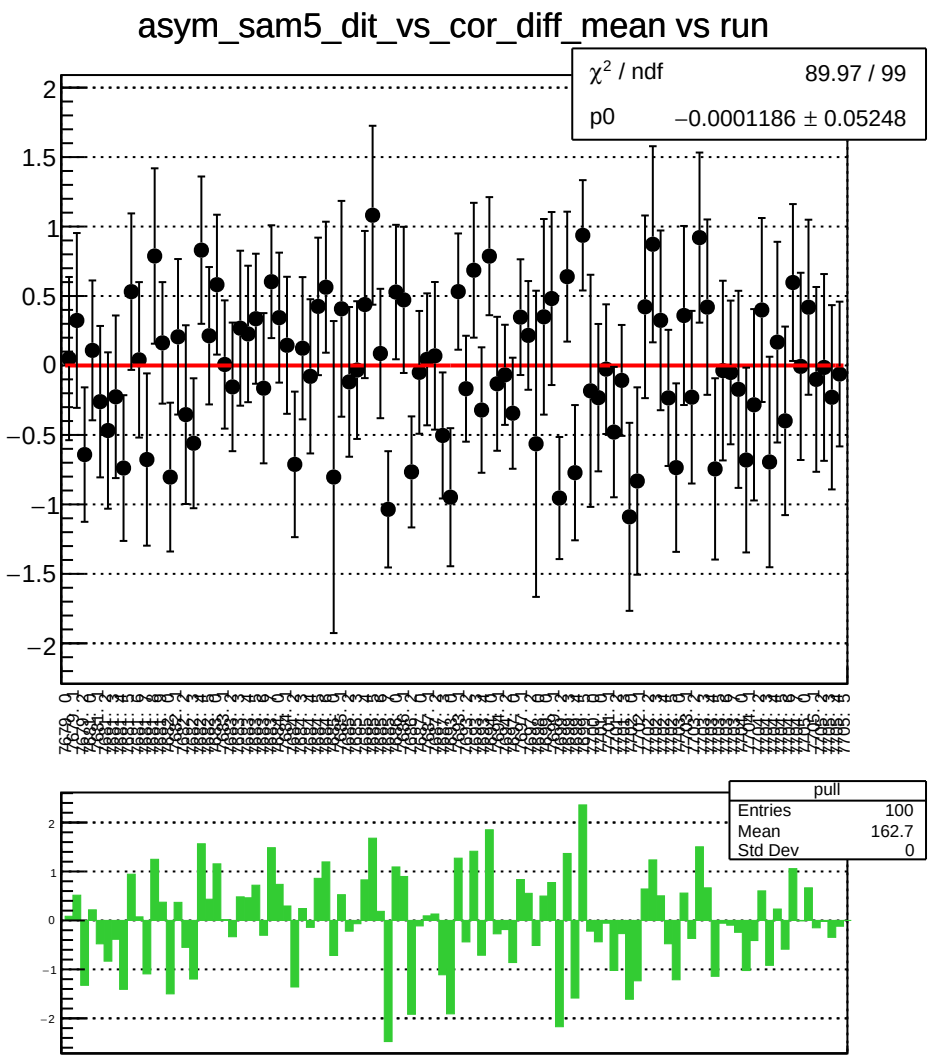

pull1D
Entries 100
Mean 0.01576
Std Dev 0.91
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

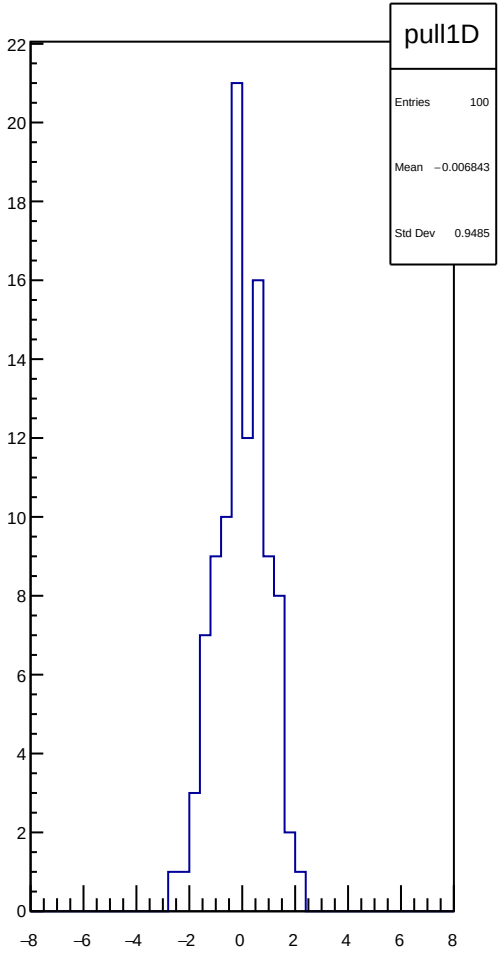

asym_sam5_rms vs run
χ^2 / ndf 1.44e+05 / 99
p0 1225 ± 0.9175
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800

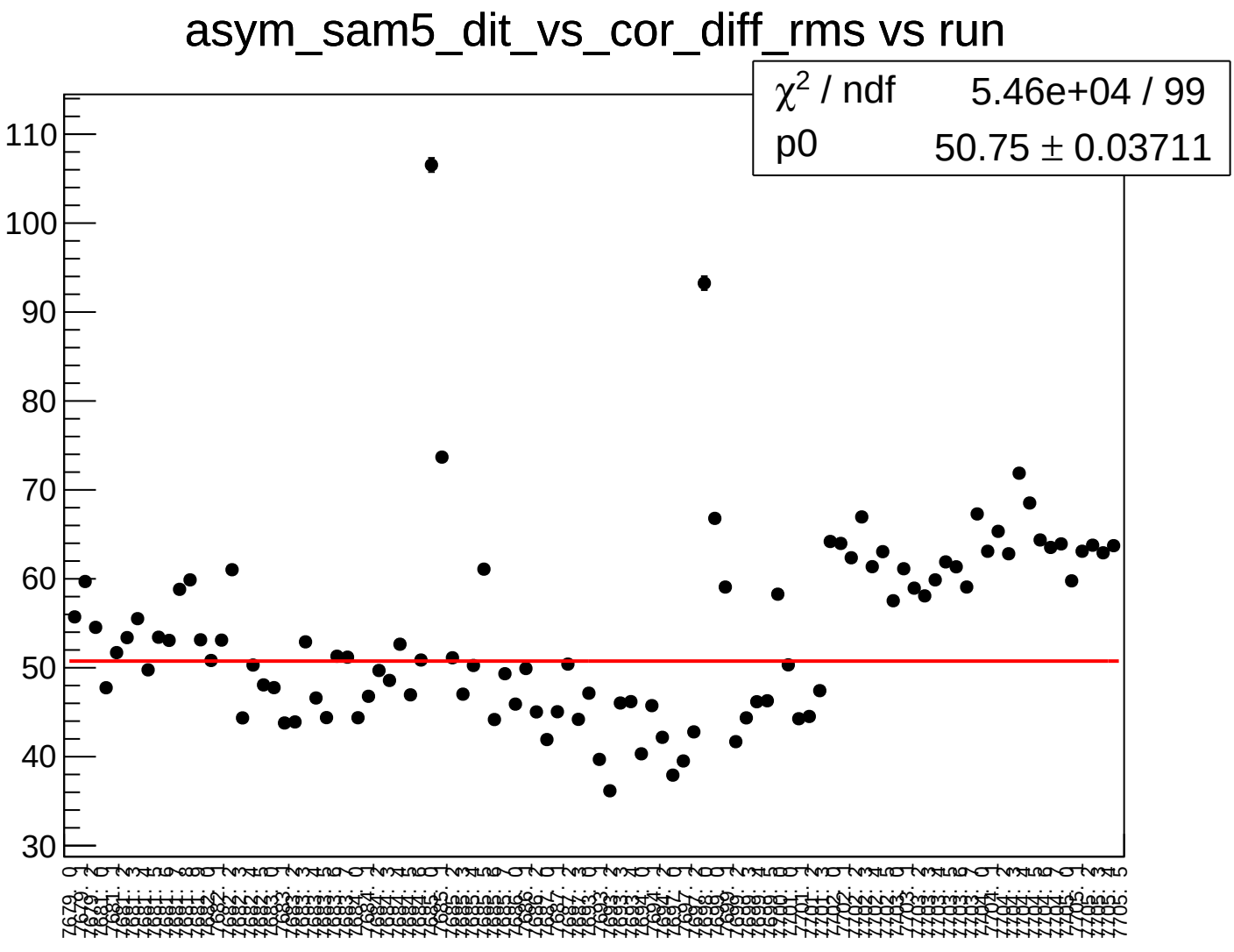

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 85.77 / 99
p0 −5.037e−14 ± 5.551e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 100
Mean 212.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

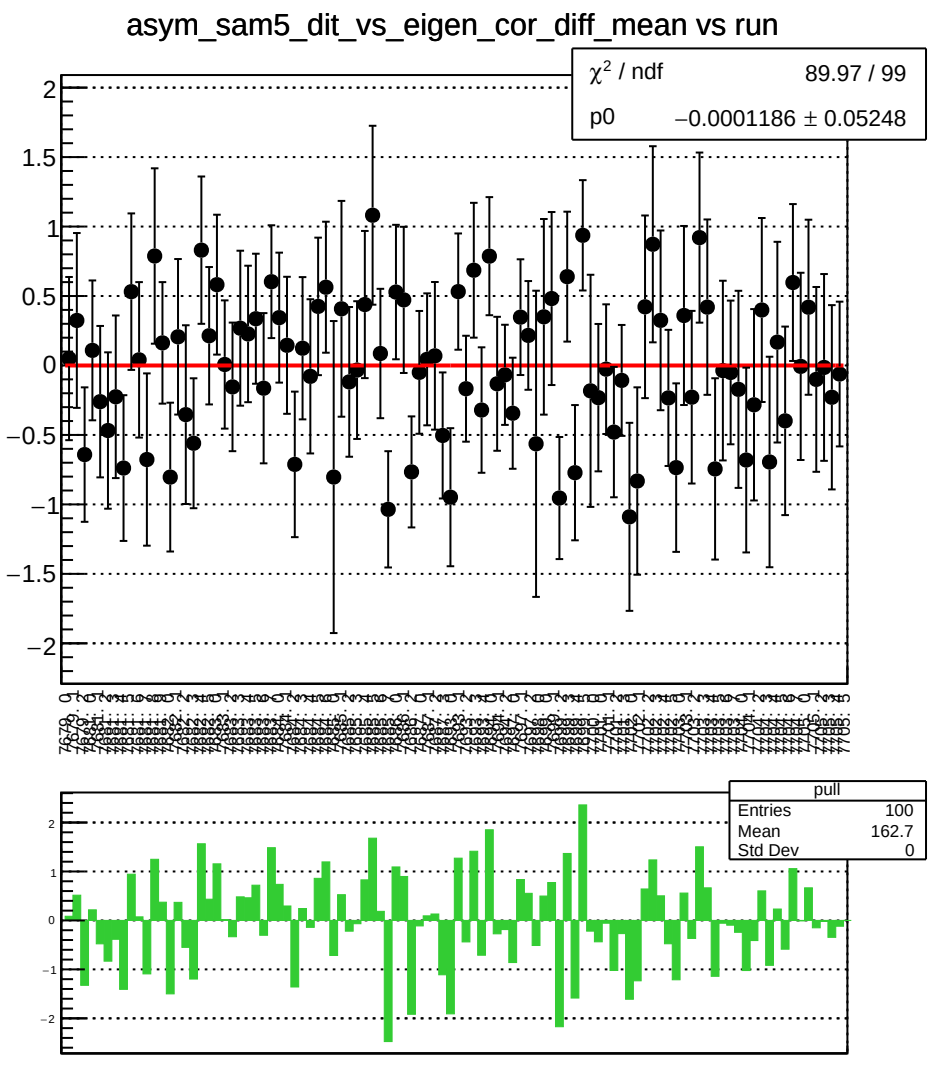

pull1D
Entries 100
Mean 0.01927
Std Dev 0.9259
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

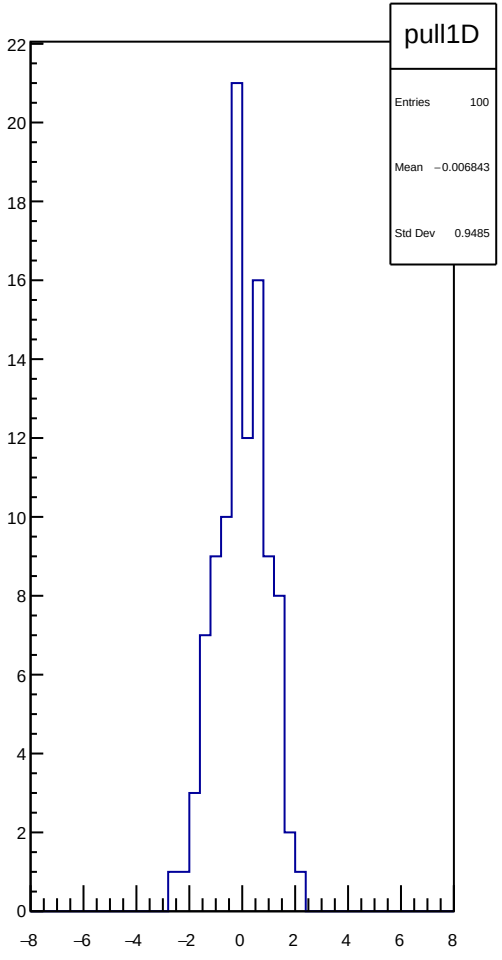

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 1.175e+06 / 99
p0 3.399e−11 ± 3.925e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

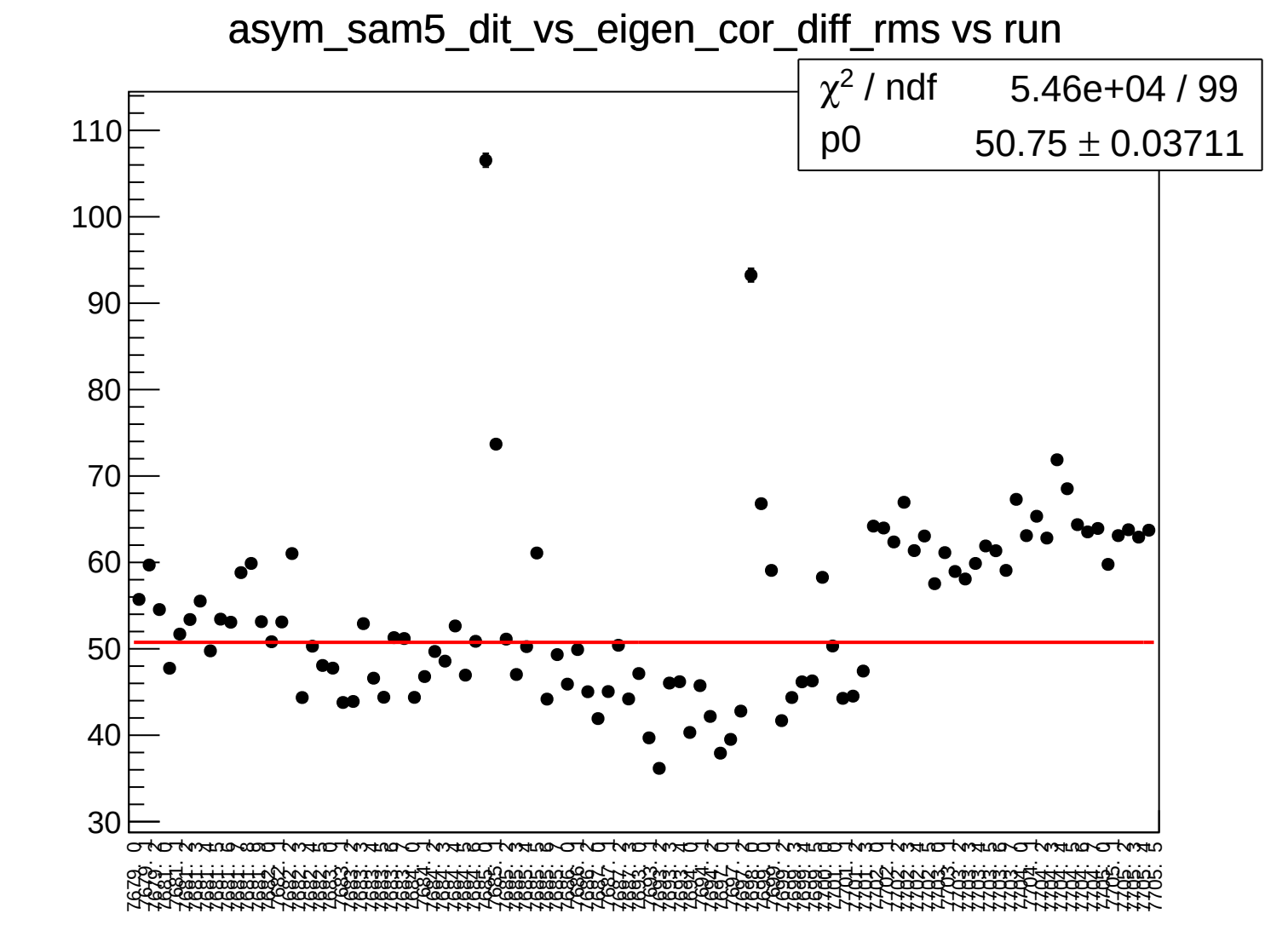

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 89.97 / 99
p0 −0.0001186 ± 0.05248
pull
Entries 100
Mean 162.7
Std Dev 0

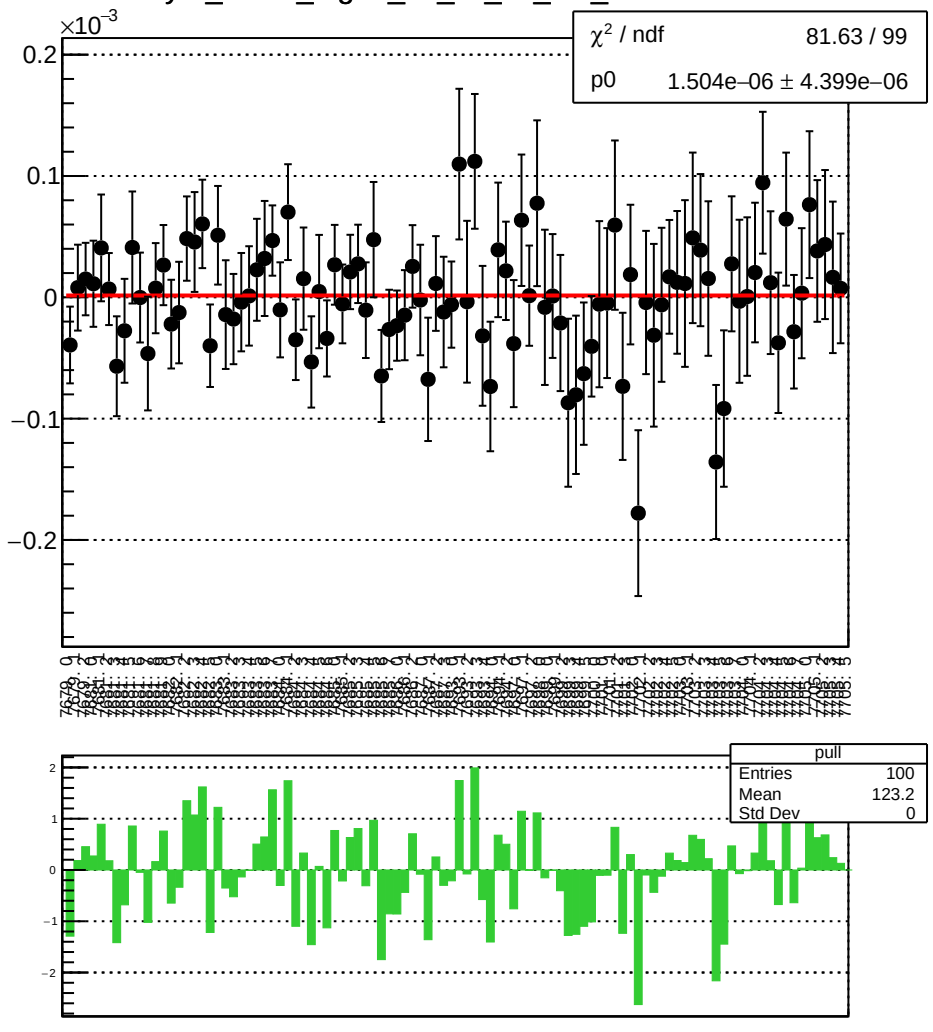

pull1D
Entries 100
Mean −0.006843
Std Dev 0.9485

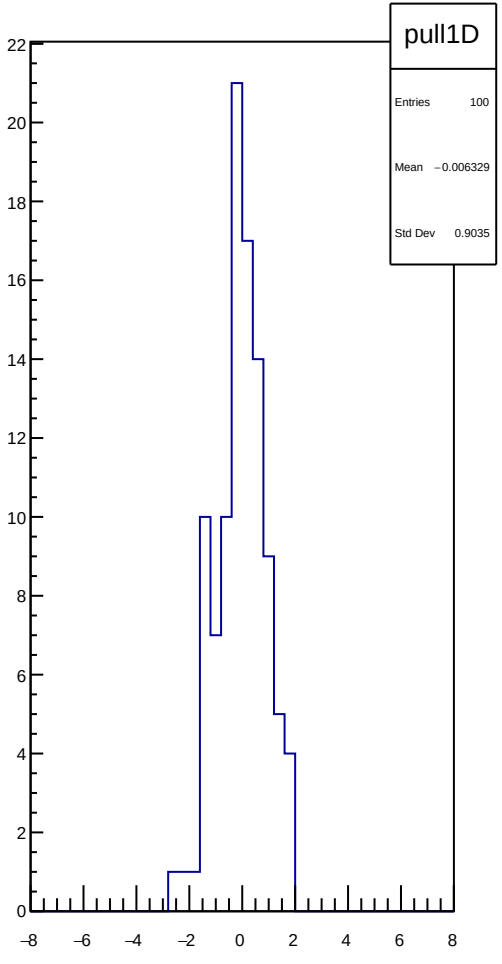

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 5.46e+04 / 99
p0 50.75 ± 0.03711
110
100
90
80
70
60
50
40
30

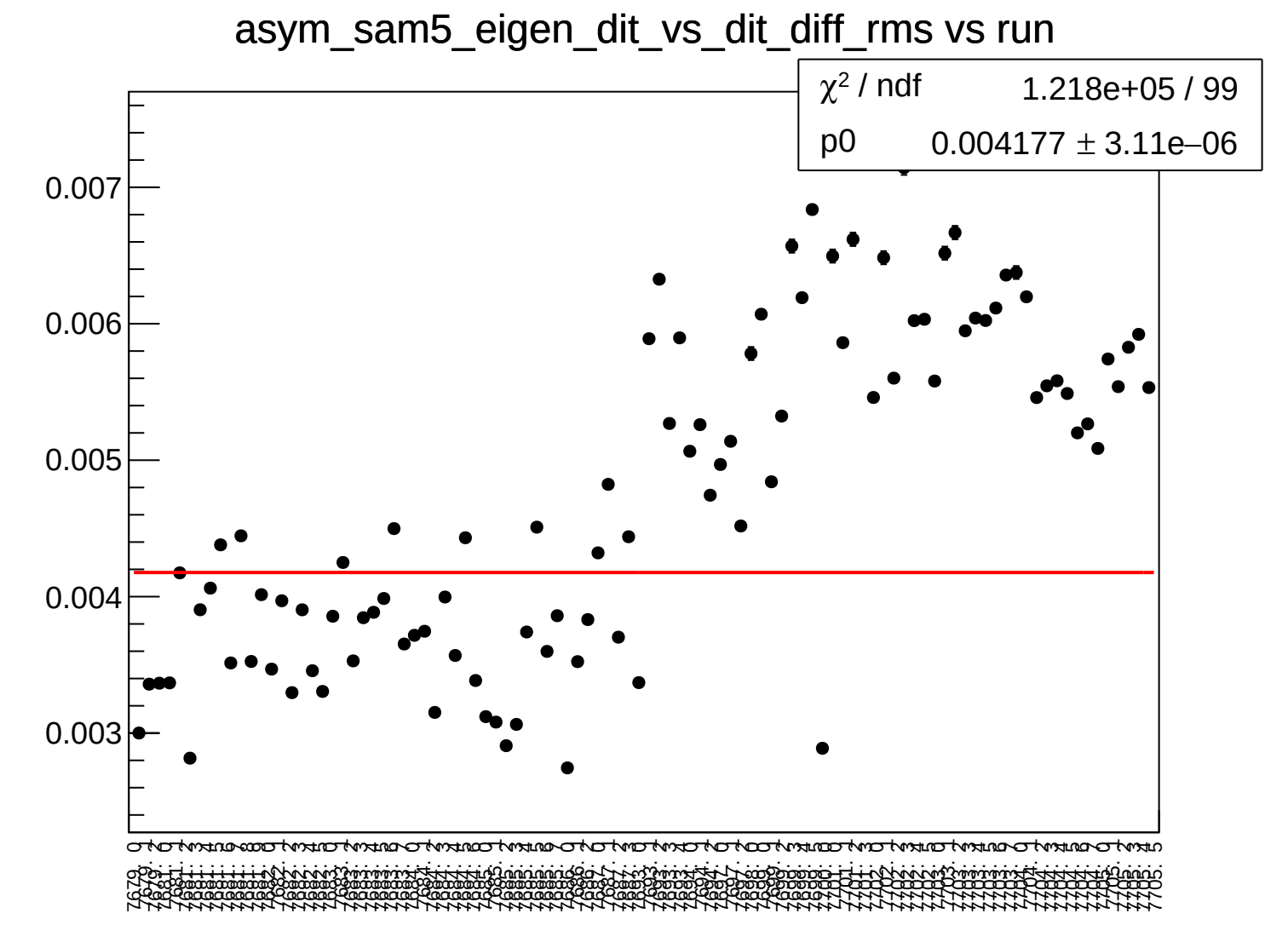

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.97 / 99
p0 −0.0001186 ± 0.05248
pull
Entries 100
Mean 162.7
Std Dev 0

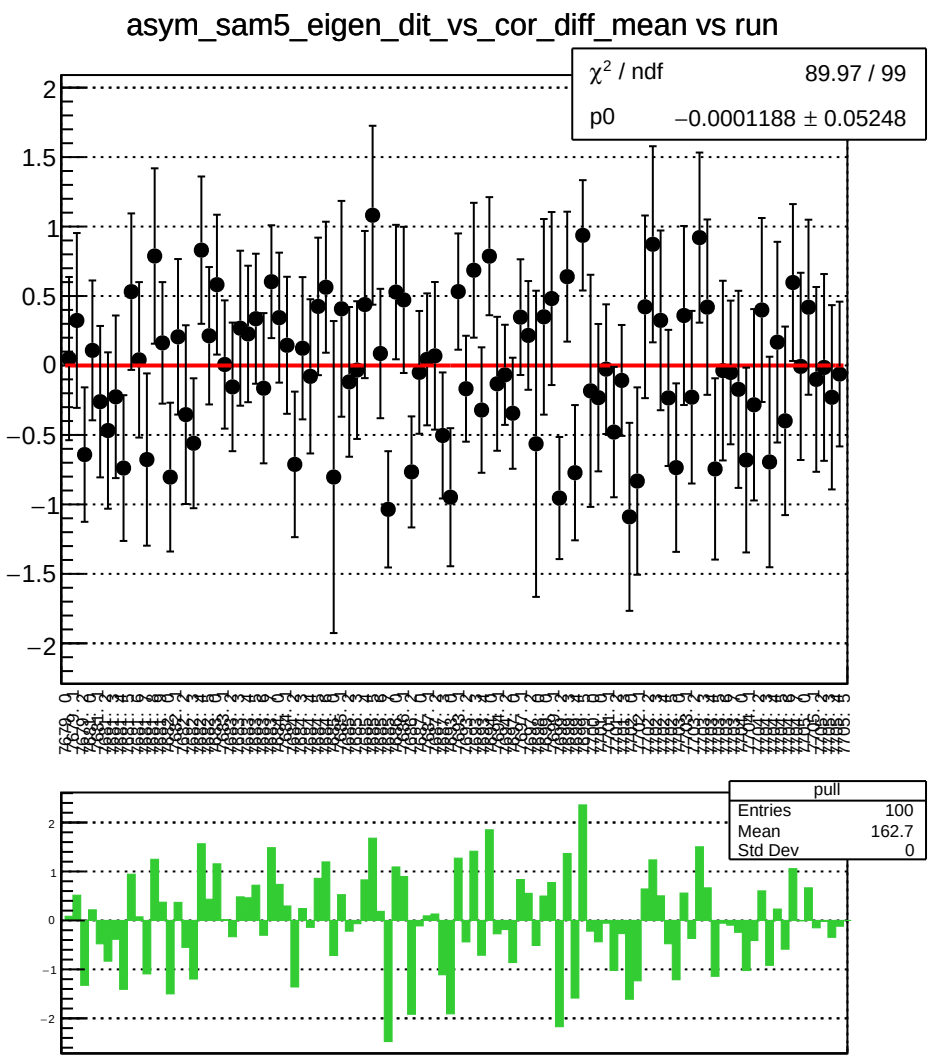

pull1D
Entries 100
Mean −0.006843
Std Dev 0.9485

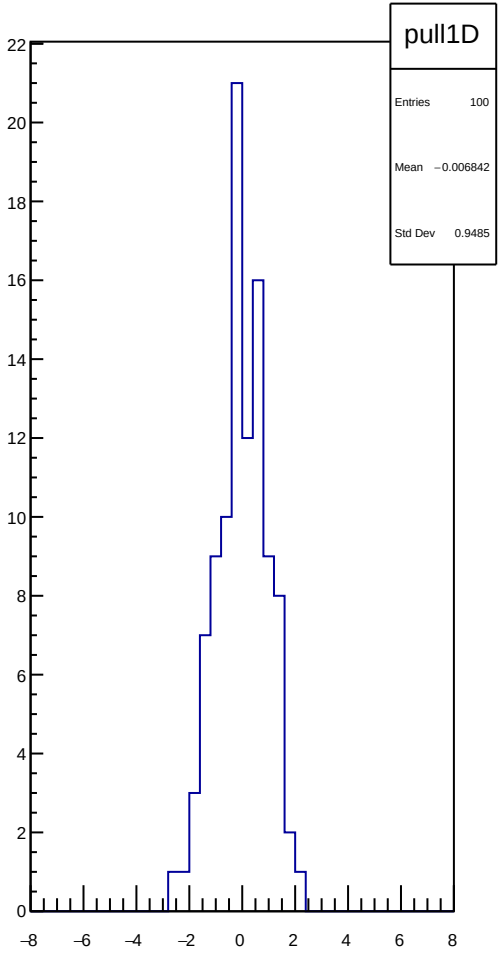

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.46e+04 / 99
p0 50.75 ± 0.03711
110
100
90
80
70
60
50
40
30

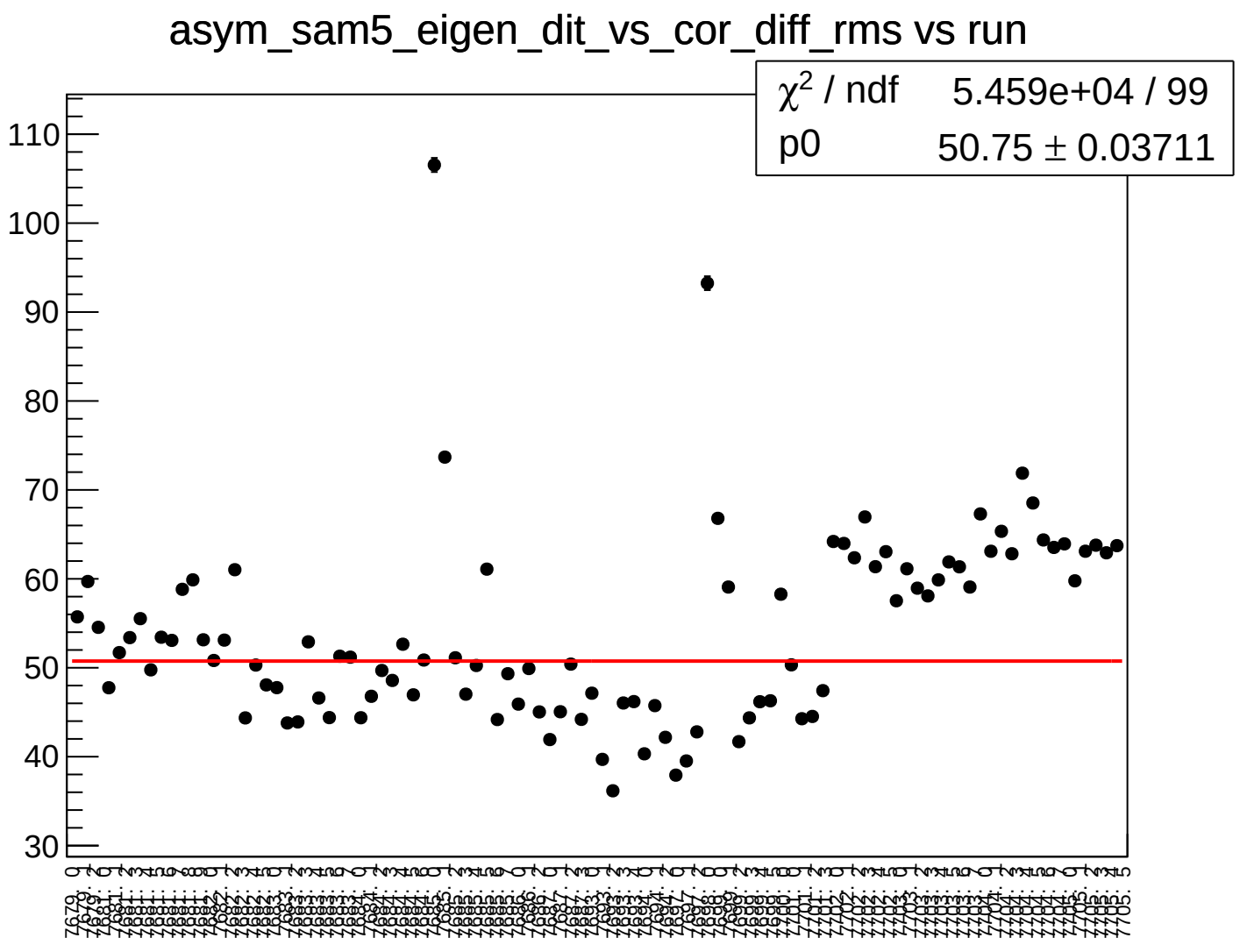

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.63 / 99
p0 1.504e−06 ± 4.399e−06
pull
Entries 100
Mean 123.2
Std Dev 0

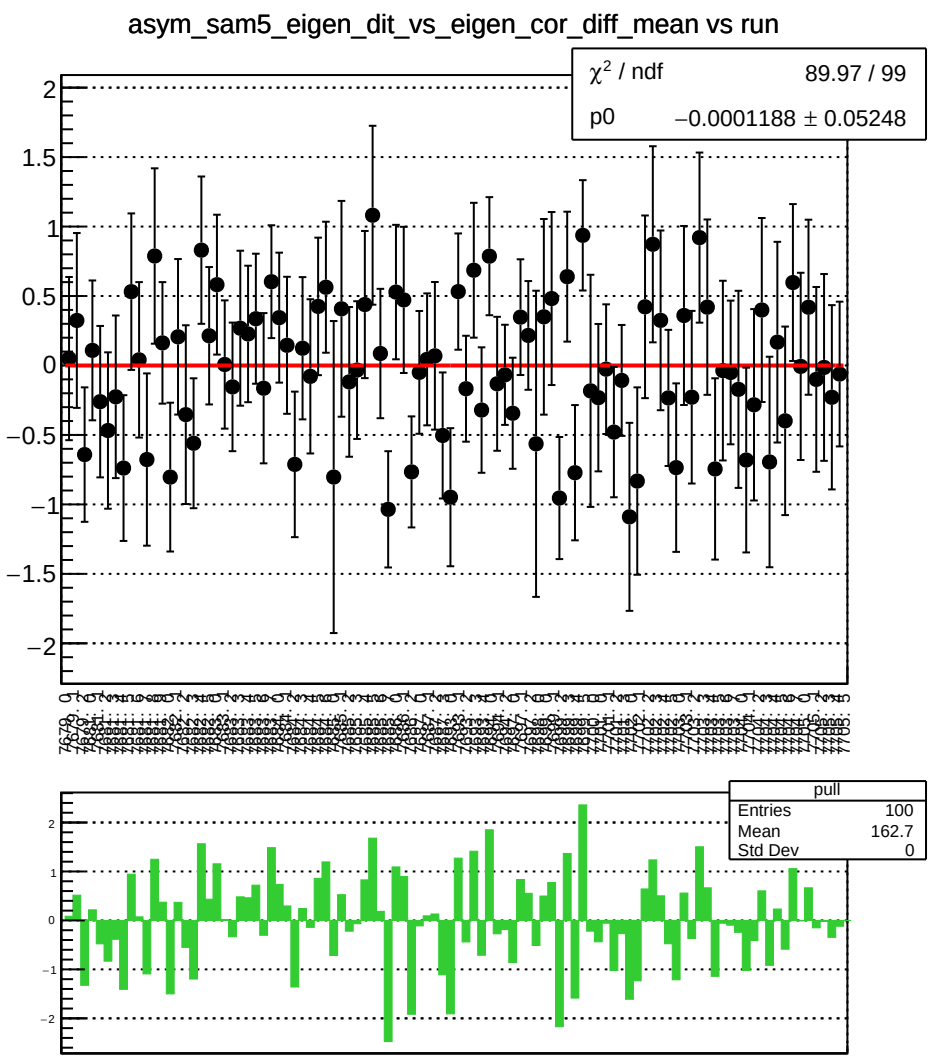

pull1D
Entries 100
Mean −0.006329
Std Dev 0.9035

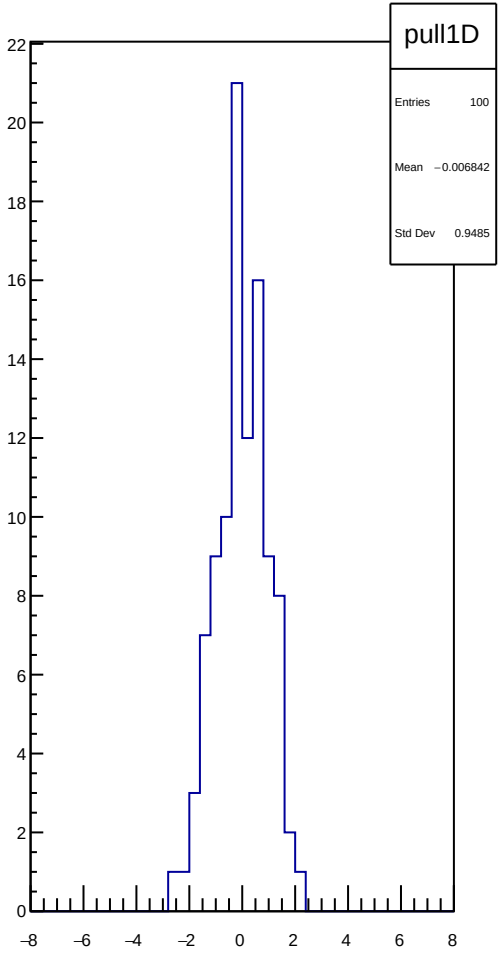

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.218e+05 / 99
p0 0.004177 ± 3.11e−06
0.007
0.006
0.005
0.004
0.003

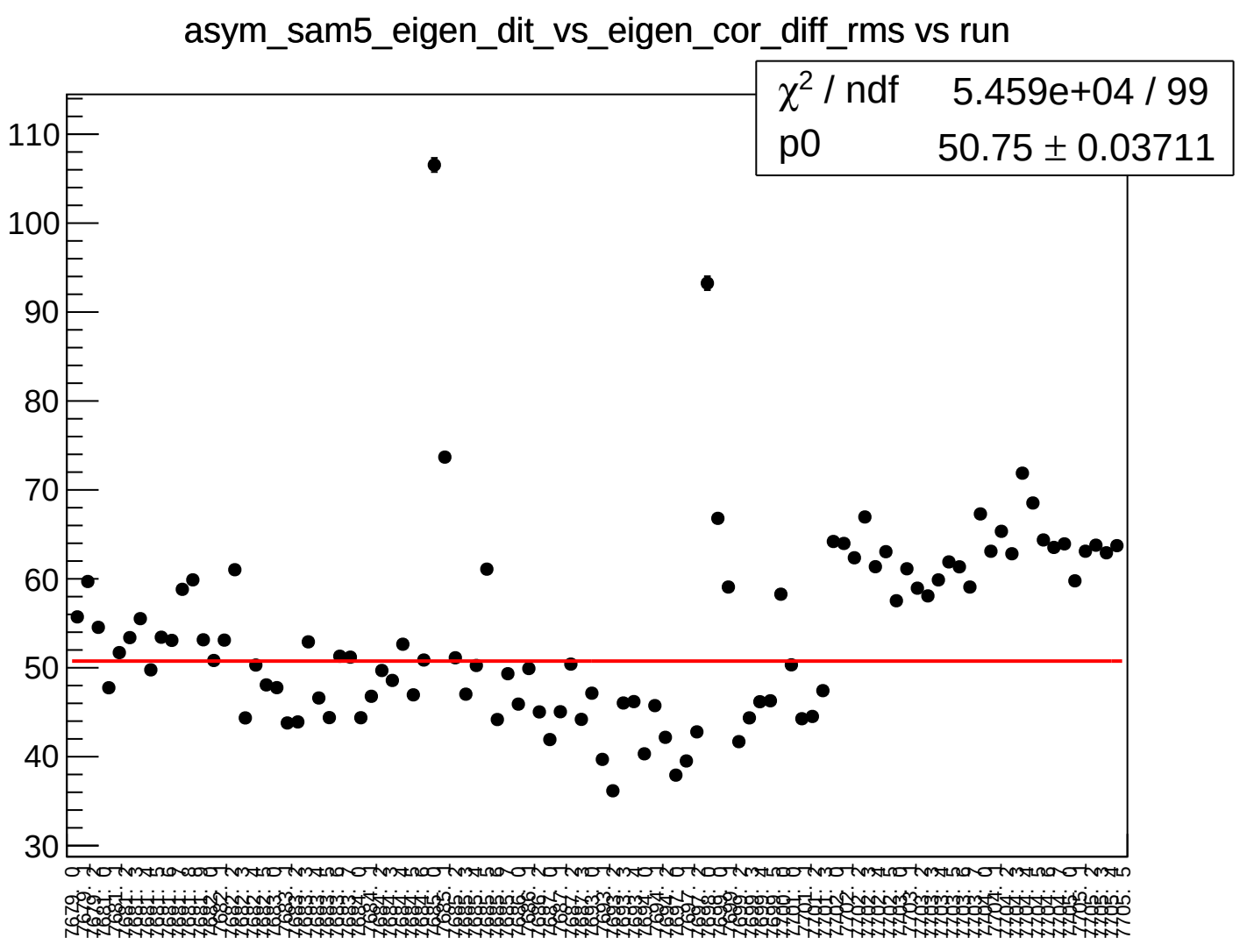

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.97 / 99
p0 −0.0001188 ± 0.05248
pull
Entries 100
Mean 162.7
Std Dev 0

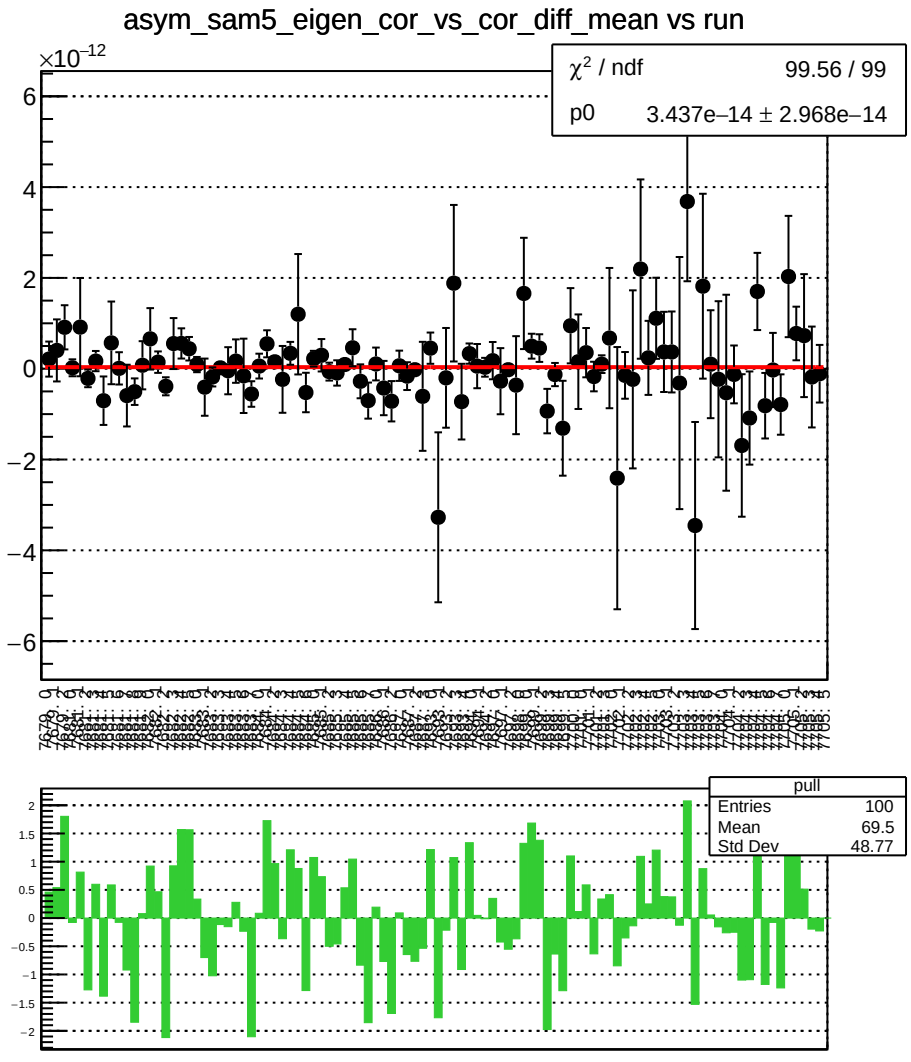

pull1D
Entries 100
Mean −0.006842
Std Dev 0.9485

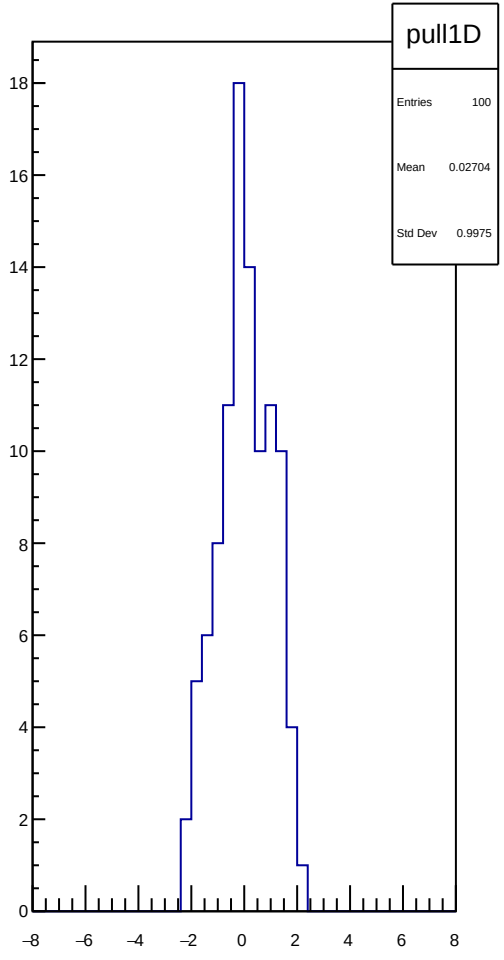

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.459e+04 / 99
p0 50.75 ± 0.03711
110
100
90
80
70
60
50
40
30

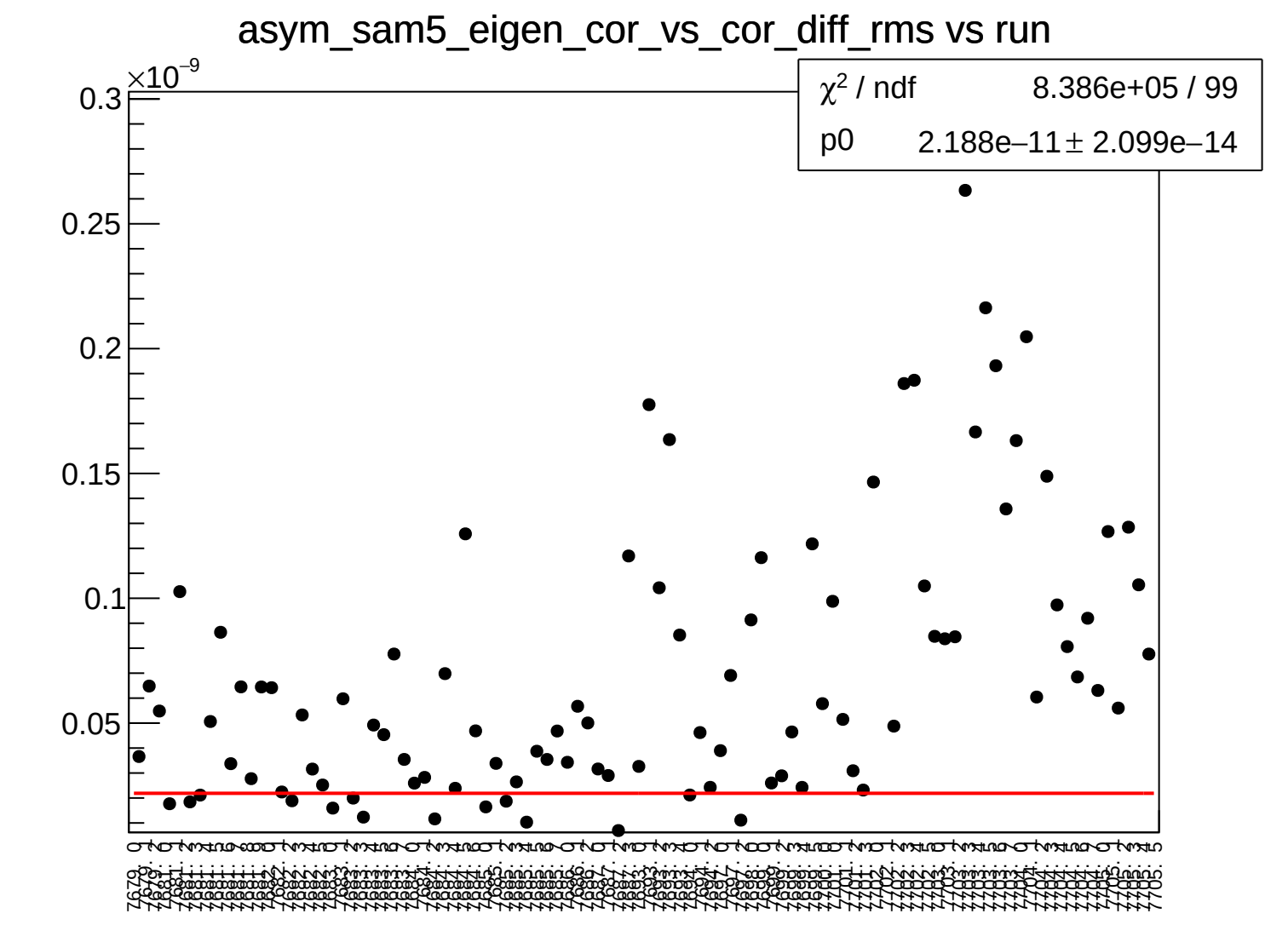

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.97 / 99
p0 −0.0001188 ± 0.05248
pull
Entries 100
Mean 162.7
Std Dev 0

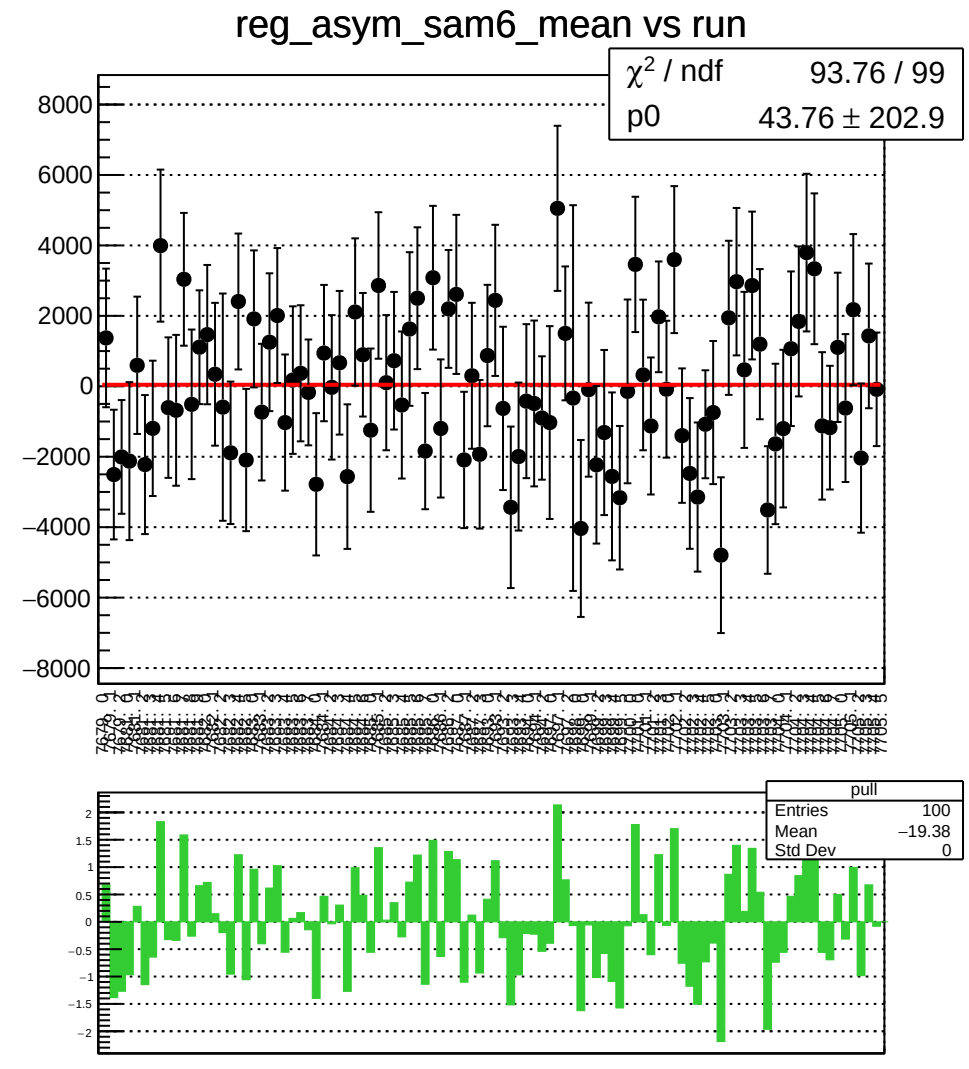

pull1D
Entries 100
Mean −0.006842
Std Dev 0.9485

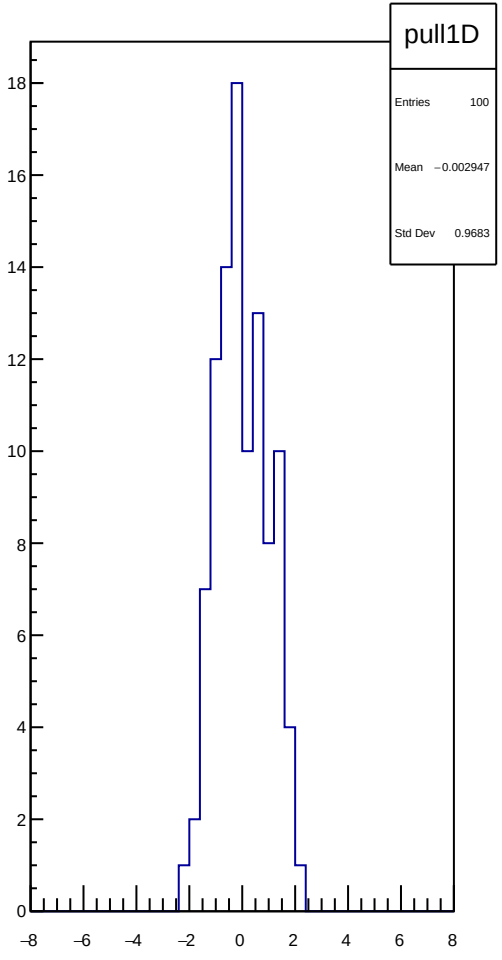

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.459e+04 / 99
p0 50.75 ± 0.03711
110
100
90
80
70
60
50
40
30

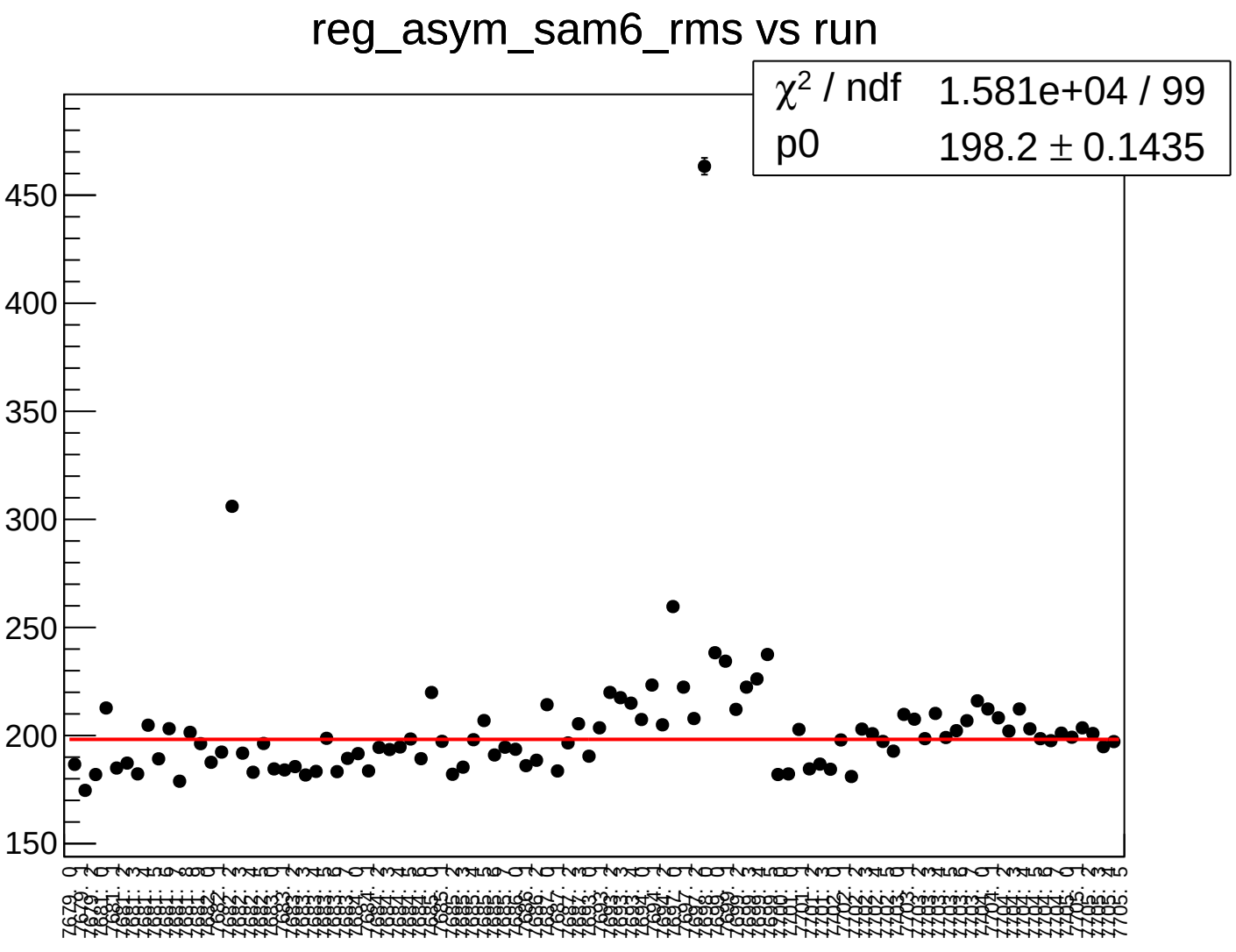

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.56 / 99
p0 3.437e−14 ± 2.968e−14
pull
Entries 100
Mean 69.5
Std Dev 48.77

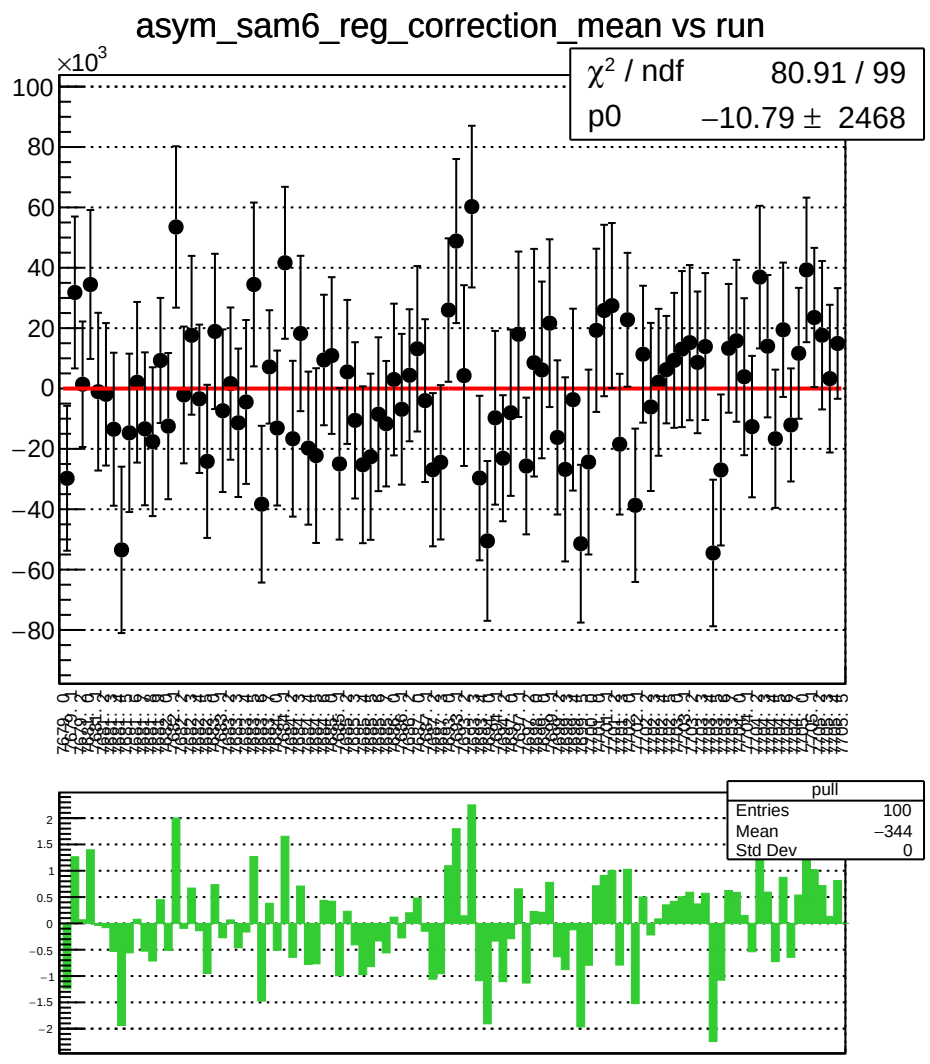

pull1D
Entries 100
Mean 0.02704
Std Dev 0.9975

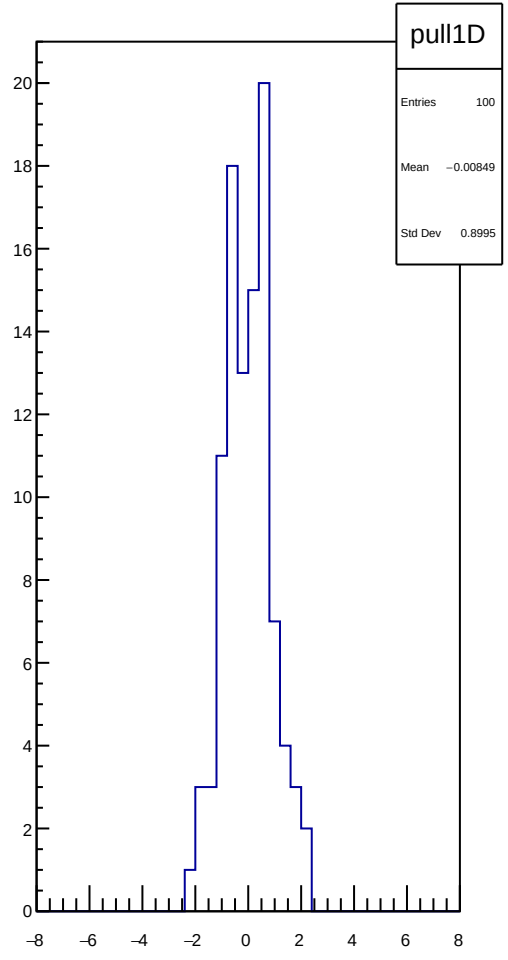

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 8.386e+05 / 99
p0 2.188e−11 ± 2.099e−14

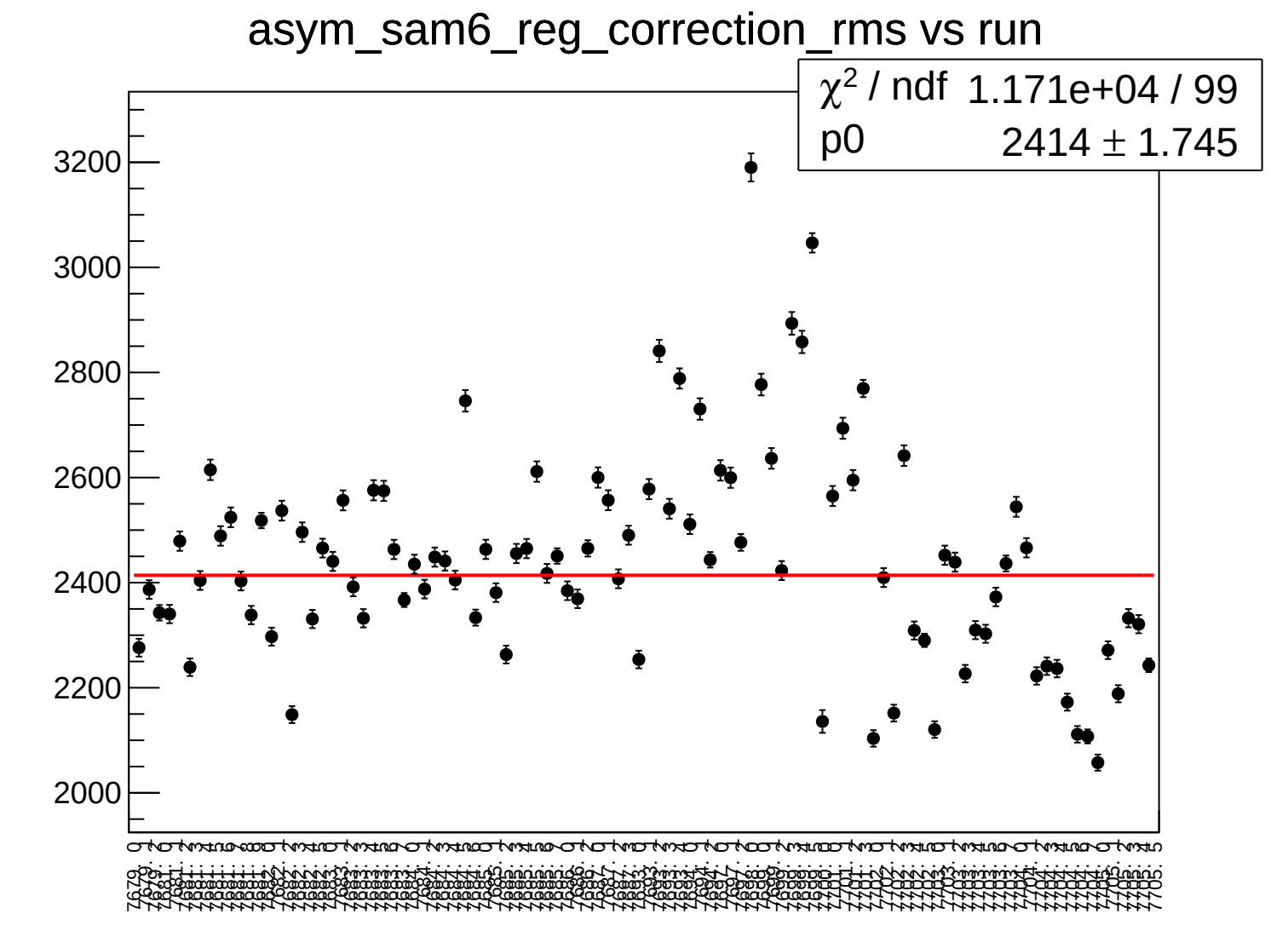

reg_asym_sam6_mean vs run
χ^2 / ndf 93.76 / 99
p0 43.76 ± 202.9
pull
Entries 100
Mean −19.38
Std Dev 0

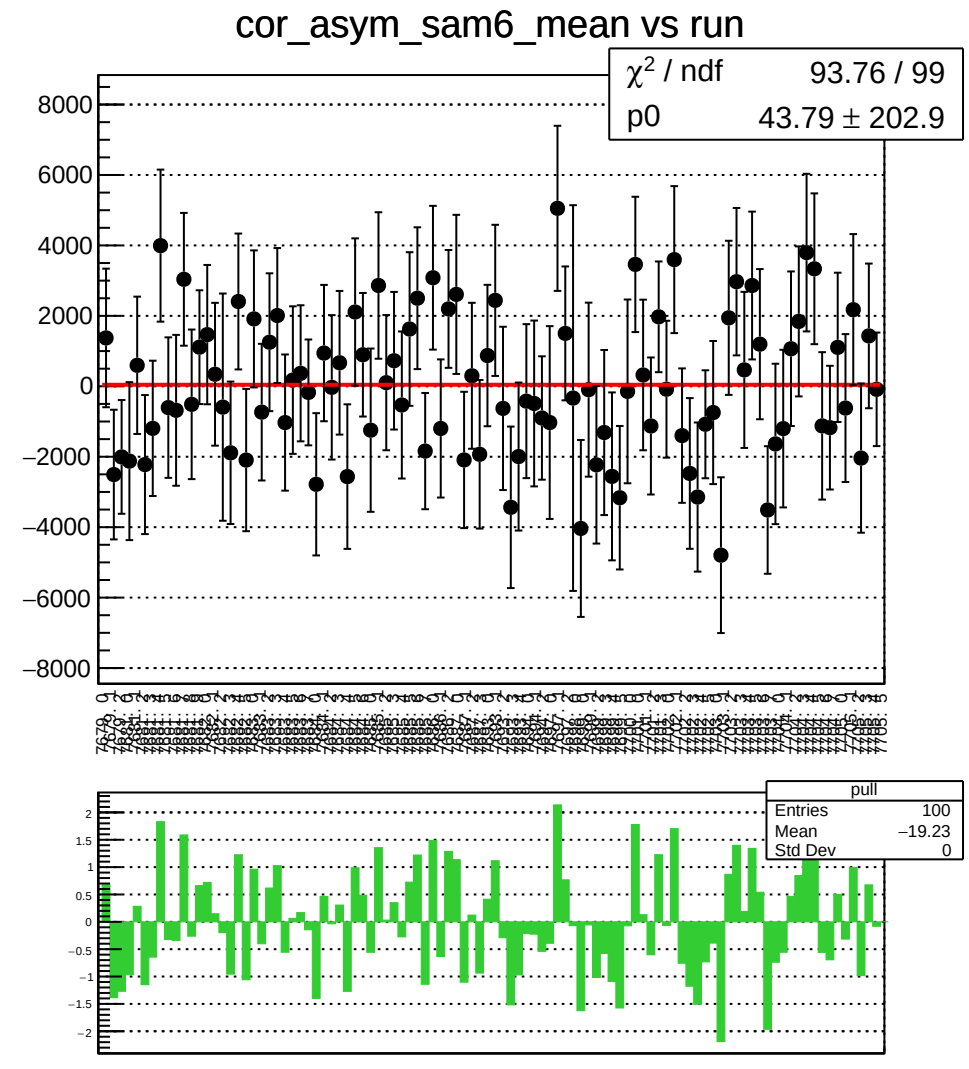

pull1D
Entries 100
Mean −0.002947
Std Dev 0.9683

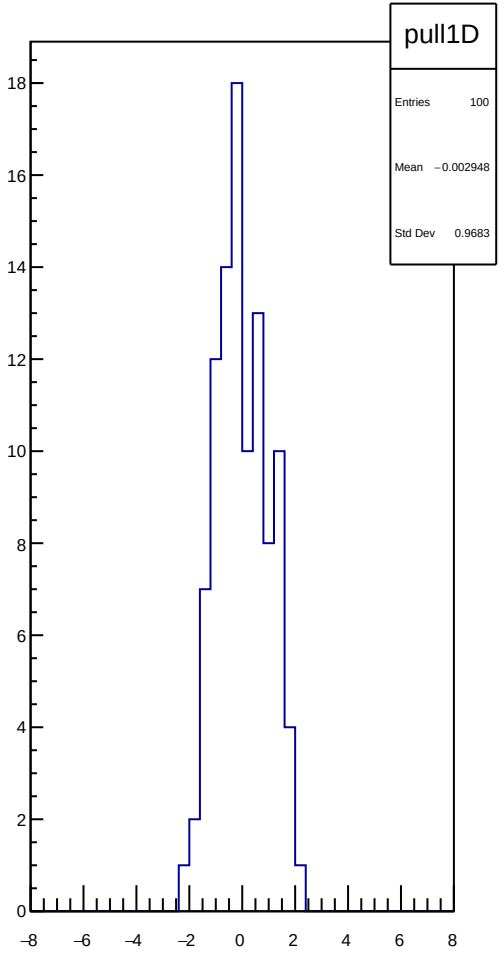

reg_asym_sam6_rms vs run
χ^2 / ndf 1.581e+04 / 99
p0 198.2 ± 0.1435
450
400
350
300
250
200
150

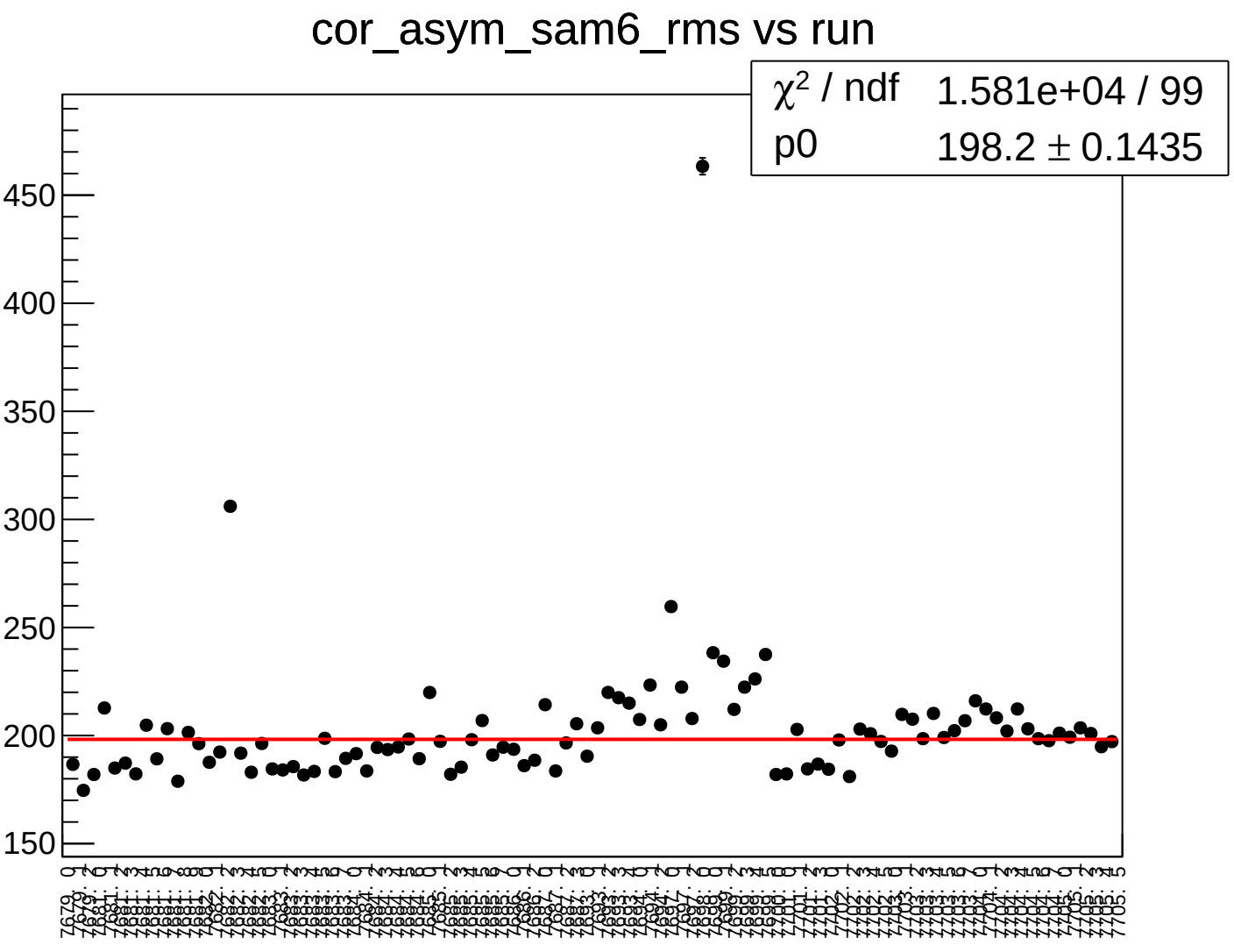

asym_sam6_reg_correction_mean vs run
×10^3
χ² / ndf 80.91 / 99
p0 −10.79 ± 2468
pull
Entries 100
Mean −344
Std Dev 0

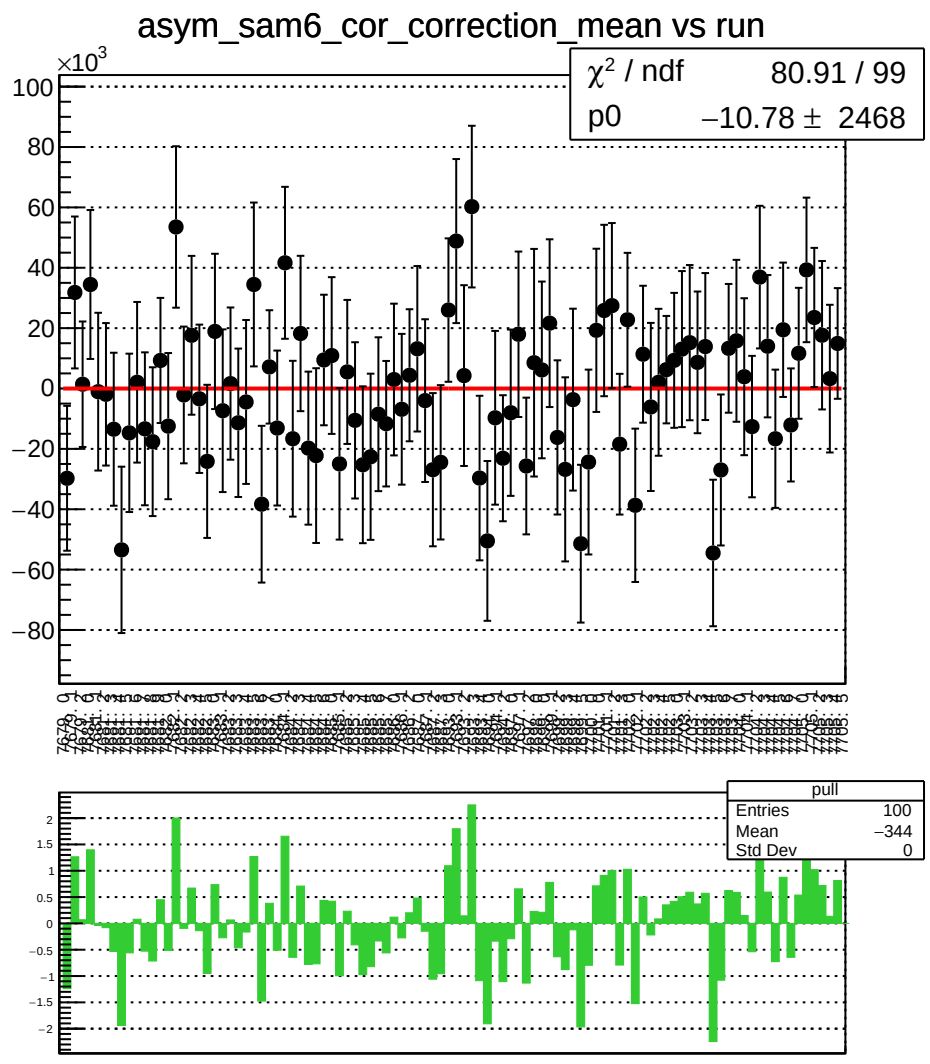

pull1D
Entries 100
Mean −0.00849
Std Dev 0.8995

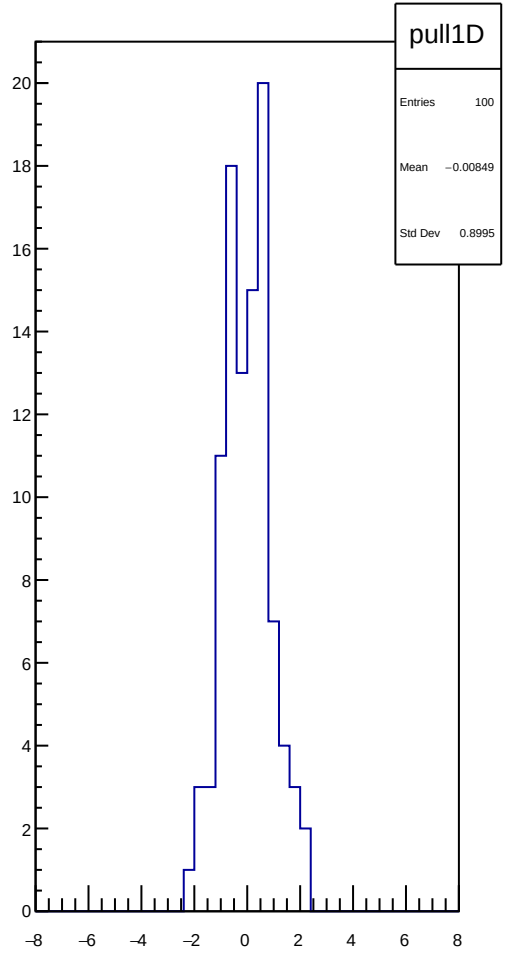

asym_sam6_reg_correction_rms vs run
χ² / ndf 1.171e+04 / 99
p0 2414 ± 1.745
3200
3000
2800
2600
2400
2200
2000

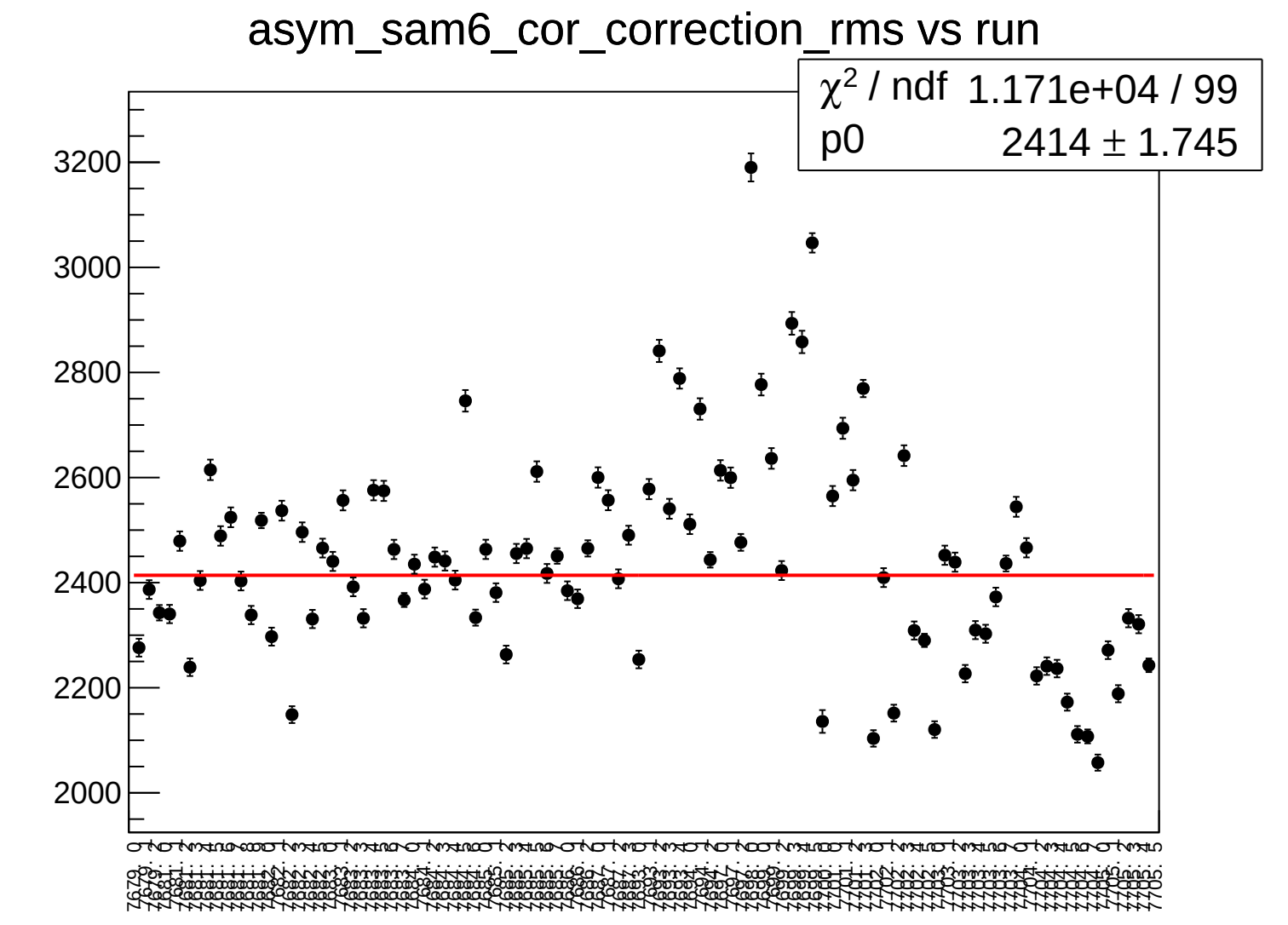

cor_asym_sam6_mean vs run
χ² / ndf 93.76 / 99
p0 43.79 ± 202.9
pull
Entries 100
Mean −19.23
Std Dev 0

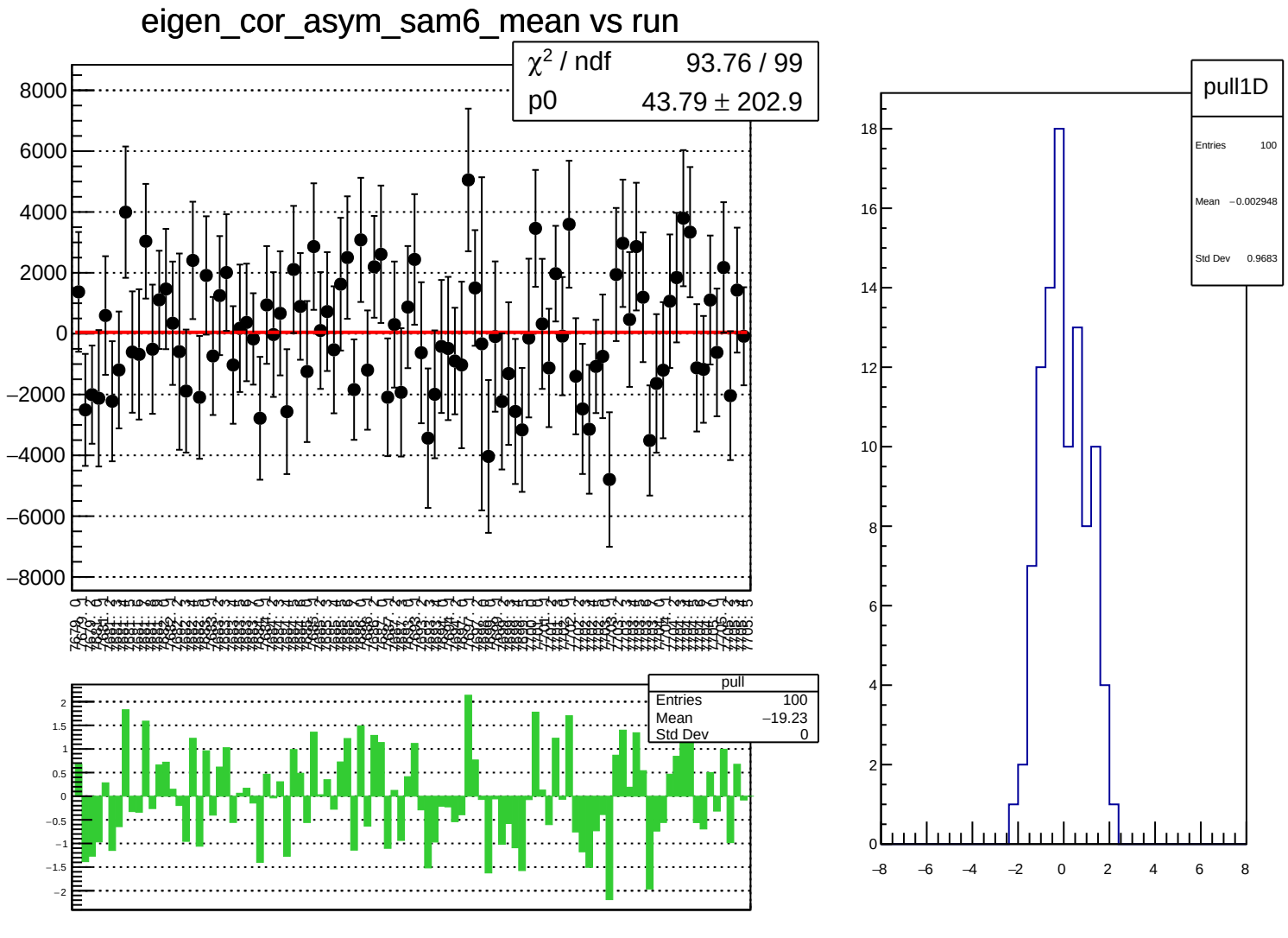

pull1D
Entries 100
Mean −0.002948
Std Dev 0.9683

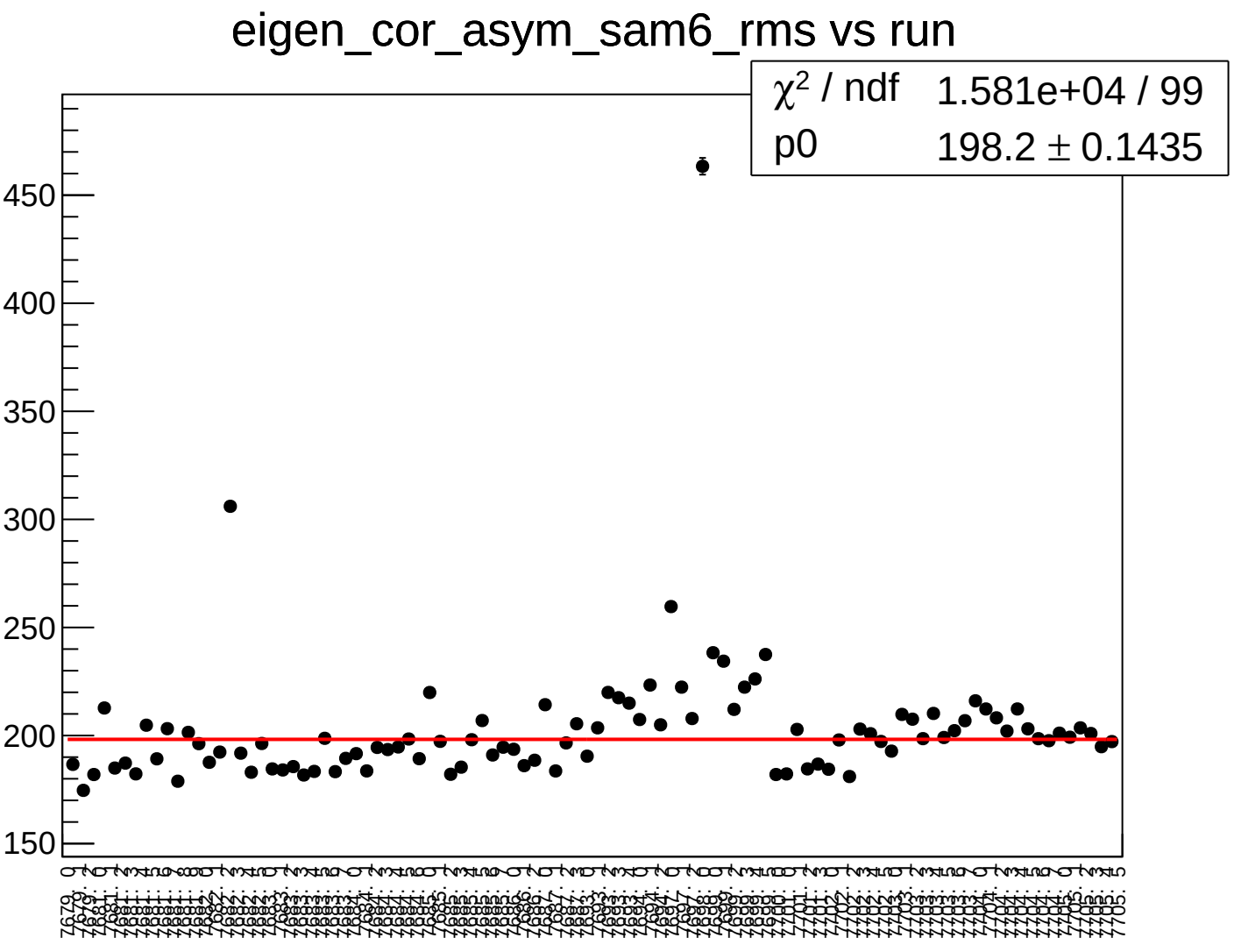

cor_asym_sam6_rms vs run
χ² / ndf 1.581e+04 / 99
p0 198.2 ± 0.1435
450
400
350
300
250
200
150

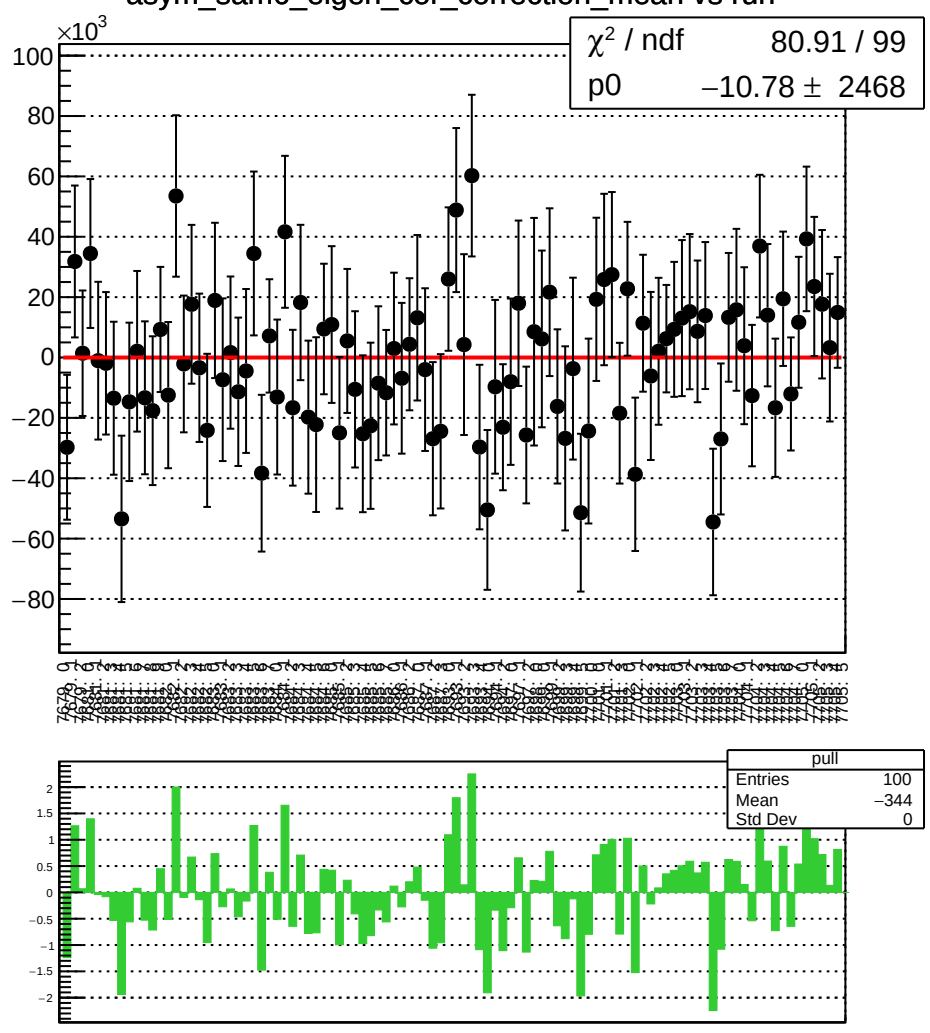

asym_sam6_cor_correction_mean vs run
×10^3
χ² / ndf 80.91 / 99
p0 −10.78 ± 2468
pull
Entries 100
Mean −344
Std Dev 0

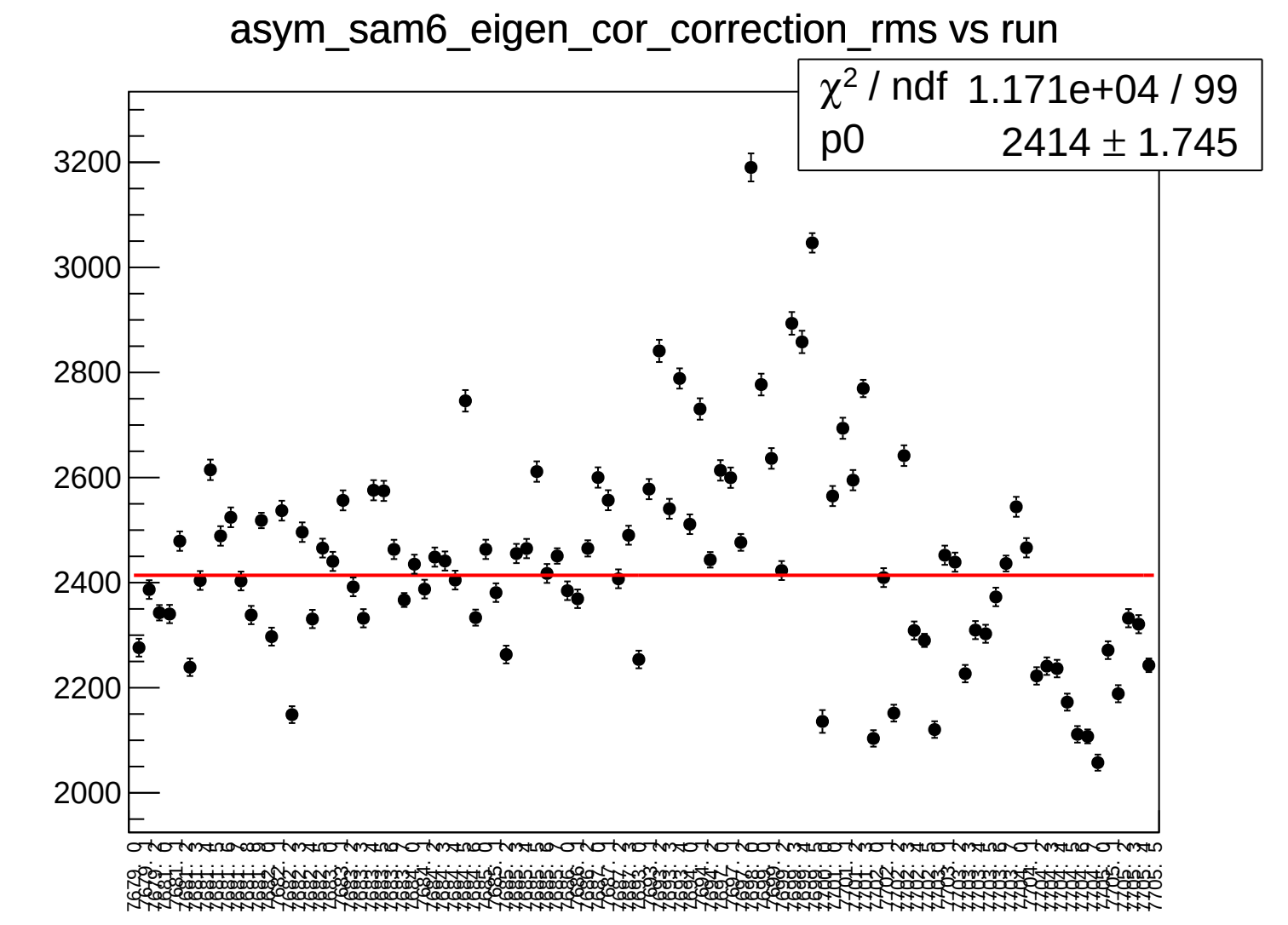

pull1D
Entries 100
Mean −0.00849
Std Dev 0.8995

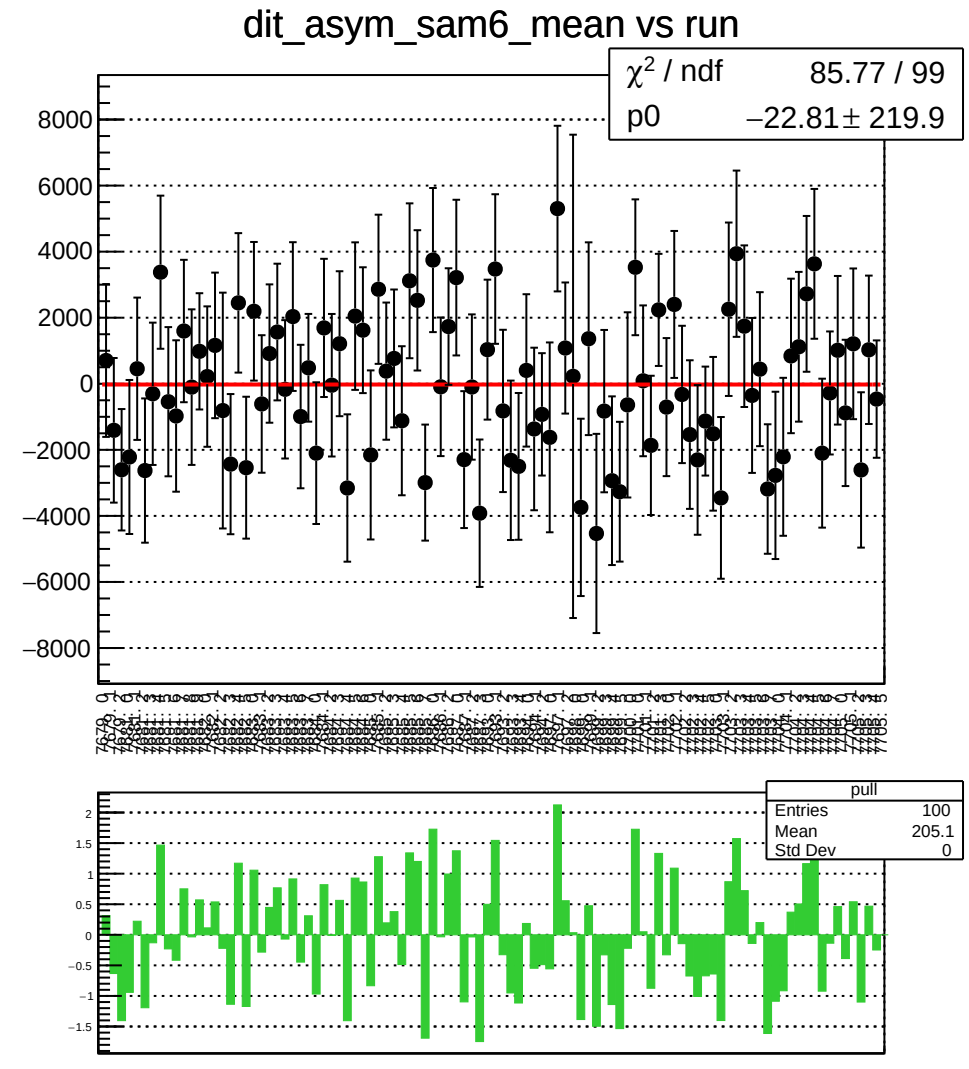

asym_sam6_cor_correction_rms vs run
χ² / ndf 1.171e+04 / 99
p0 2414 ± 1.745
3200
3000
2800
2600
2400
2200
2000

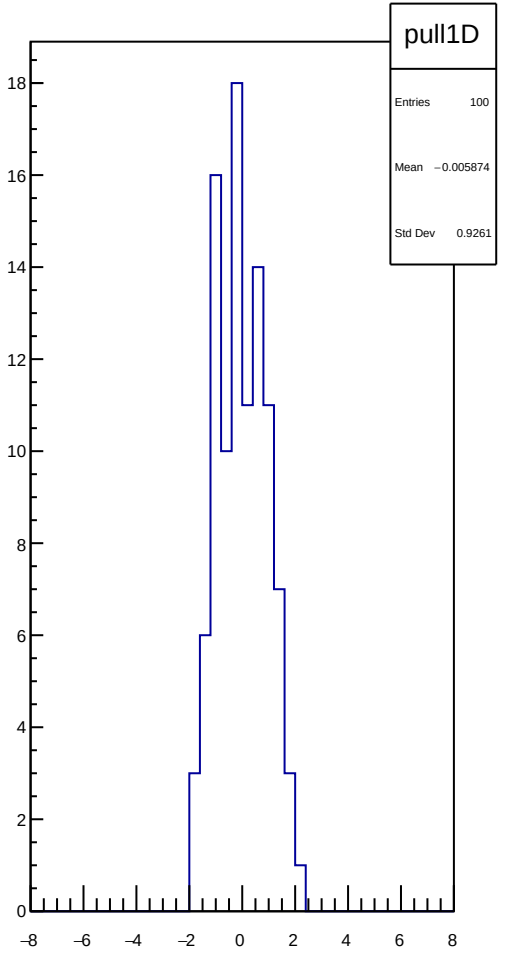

eigen_cor_asym_sam6_mean vs run
χ² / ndf 93.76 / 99
p0 43.79 ± 202.9
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 100
Mean −19.23
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 100
Mean −0.002948
Std Dev 0.9683
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

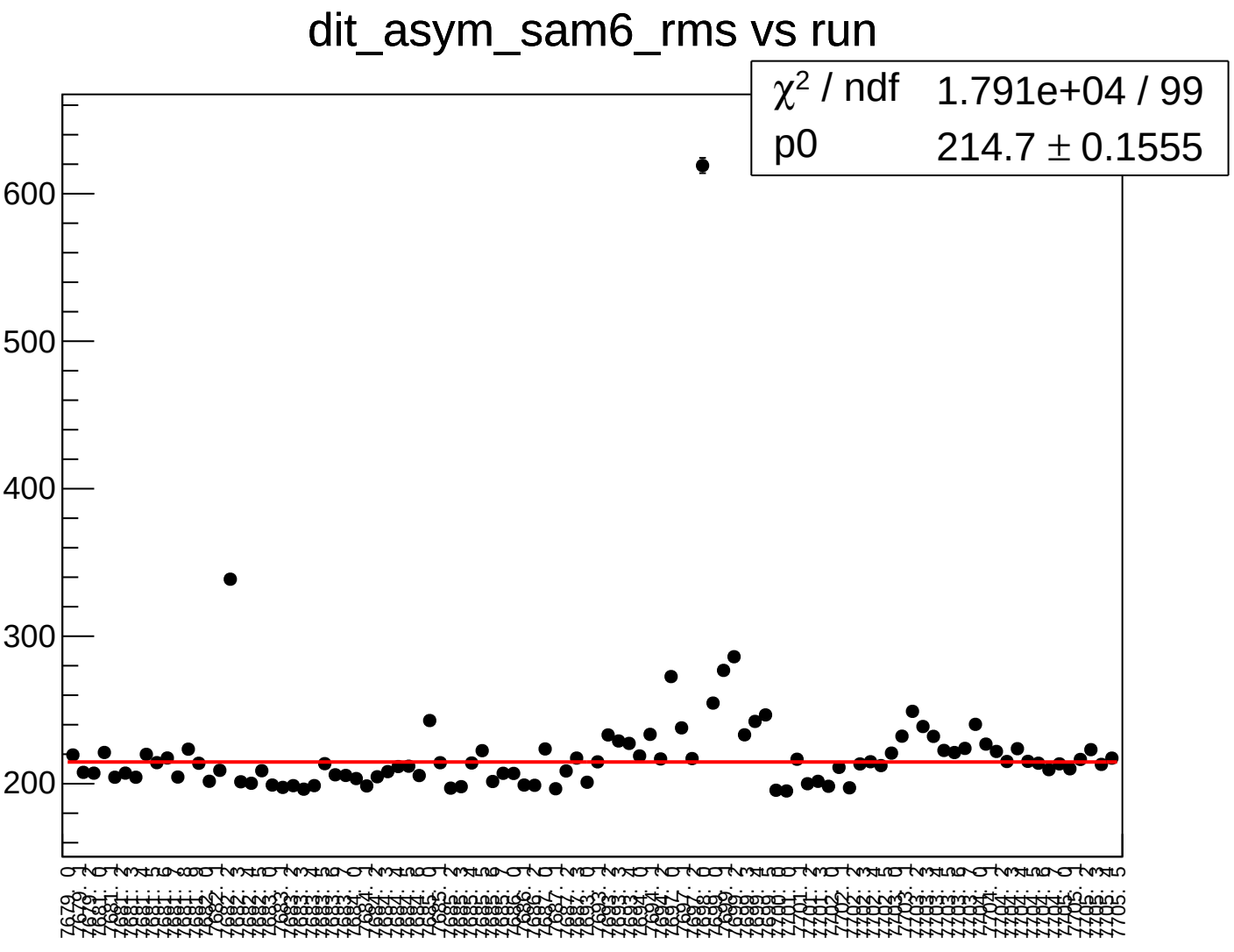

eigen_cor_asym_sam6_rms vs run
χ² / ndf 1.581e+04 / 99
p0 198.2 ± 0.1435
450
400
350
300
250
200
150

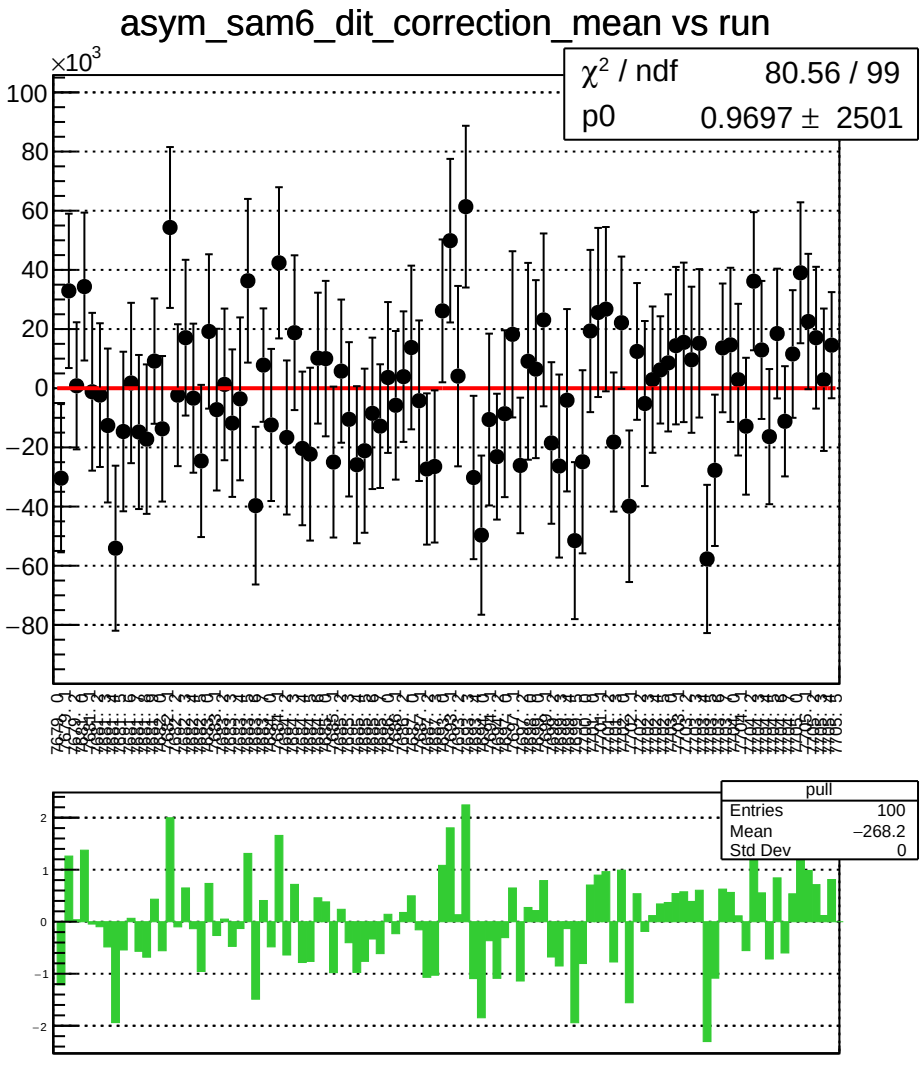

asym_sam6_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 80.91 / 99
p0 −10.78 ± 2468
pull
Entries 100
Mean −344
Std Dev 0
pull1D
Entries 100
Mean −0.00849
Std Dev 0.8995

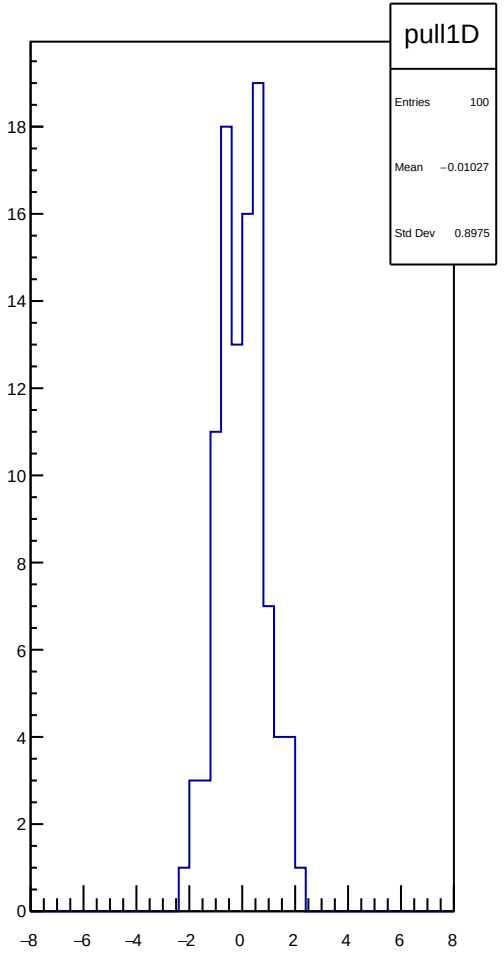

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 1.171e+04 / 99
p0 2414 ± 1.745
3200
3000
2800
2600
2400
2200
2000


dit_asym_sam6_mean vs run
χ² / ndf 85.77 / 99
p0 −22.81 ± 219.9
pull
Entries 100
Mean 205.1
Std Dev 0

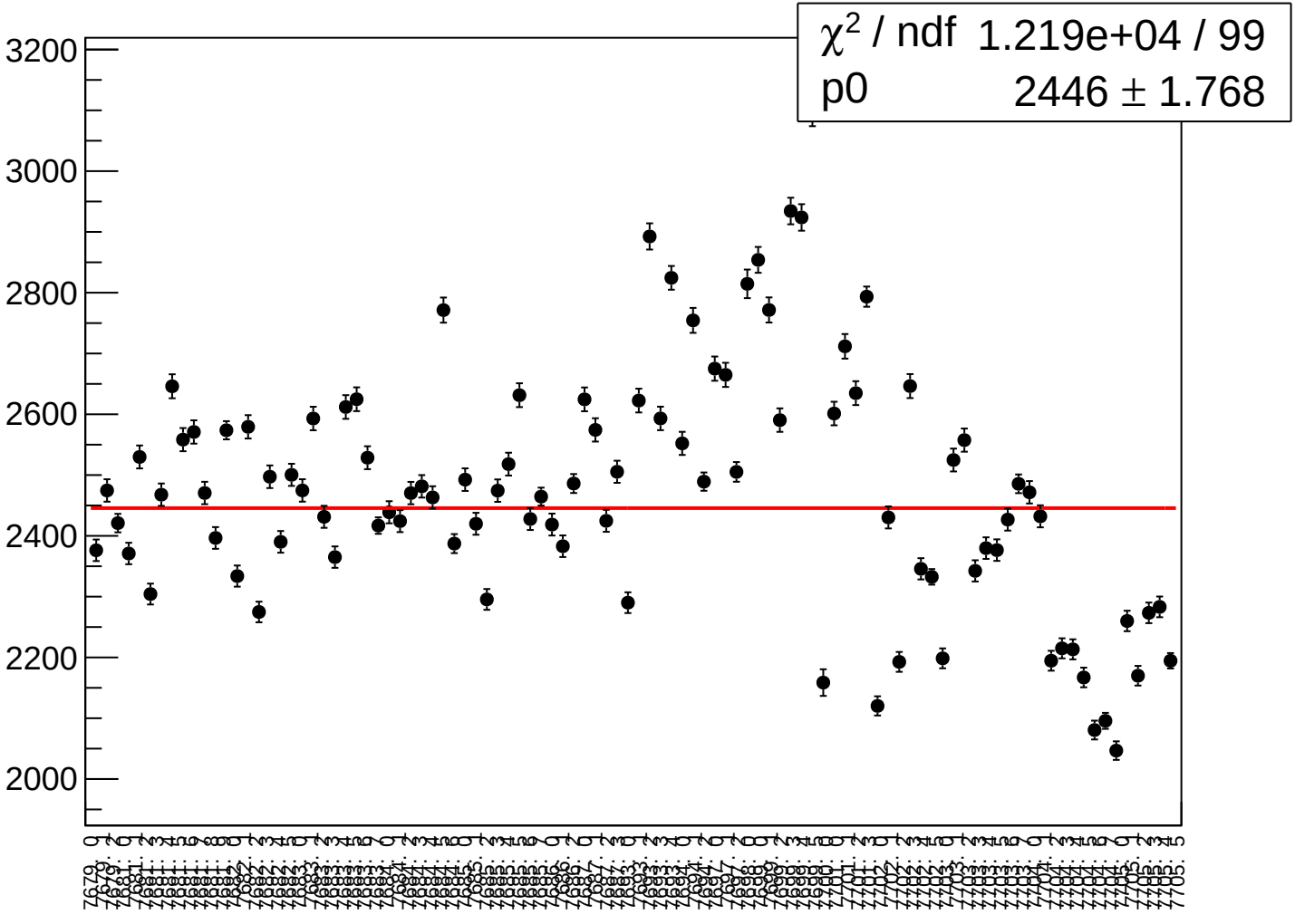

pull1D
Entries 100
Mean −0.005874
Std Dev 0.9261

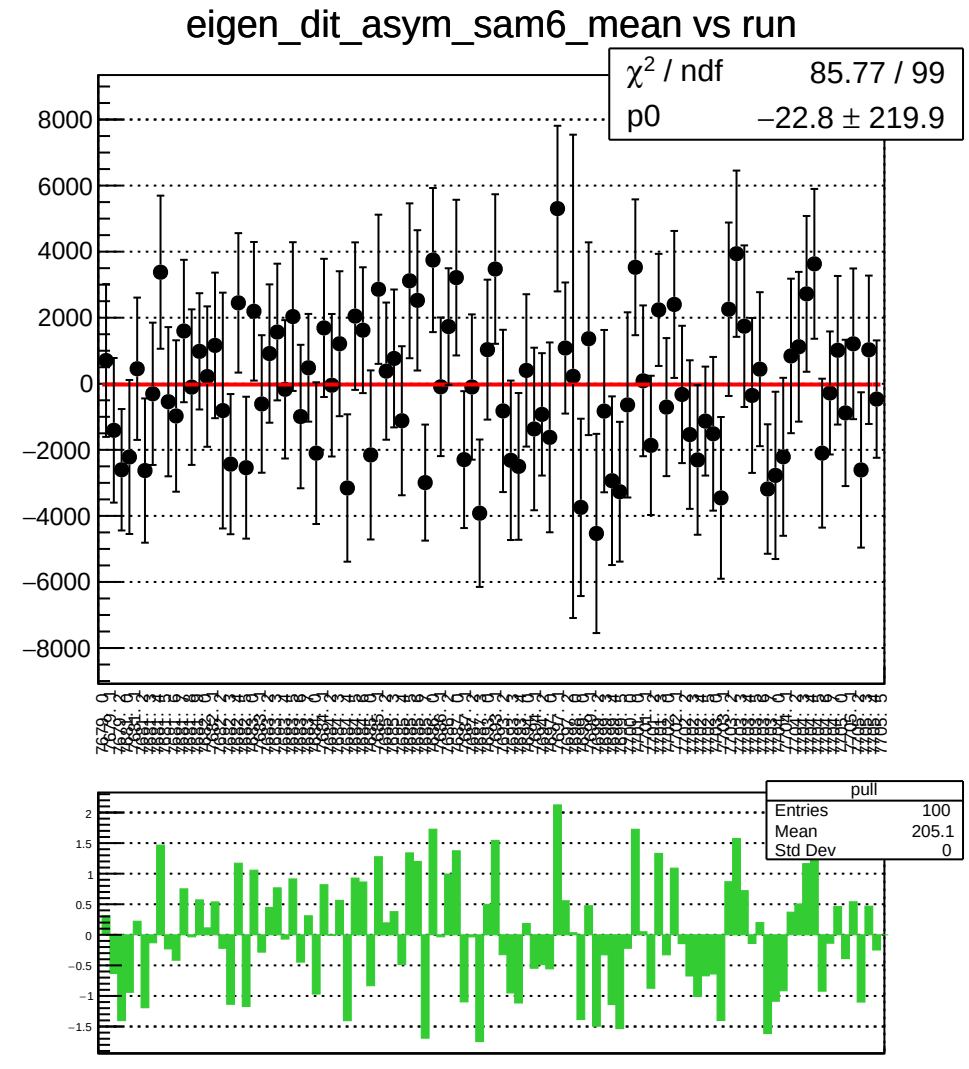

dit_asym_sam6_rms vs run
χ² / ndf 1.791e+04 / 99
p0 214.7 ± 0.1555
600
500
400
300
200

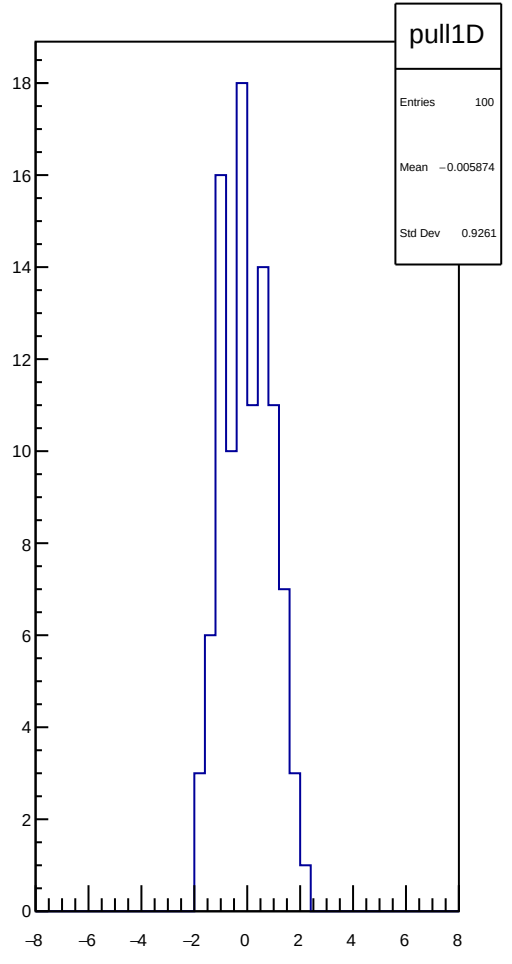

asym_sam6_dit_correction_mean vs run
×10^3
χ² / ndf 80.56 / 99
p0 0.9697 ± 2501
pull
Entries 100
Mean −268.2
Std Dev 0

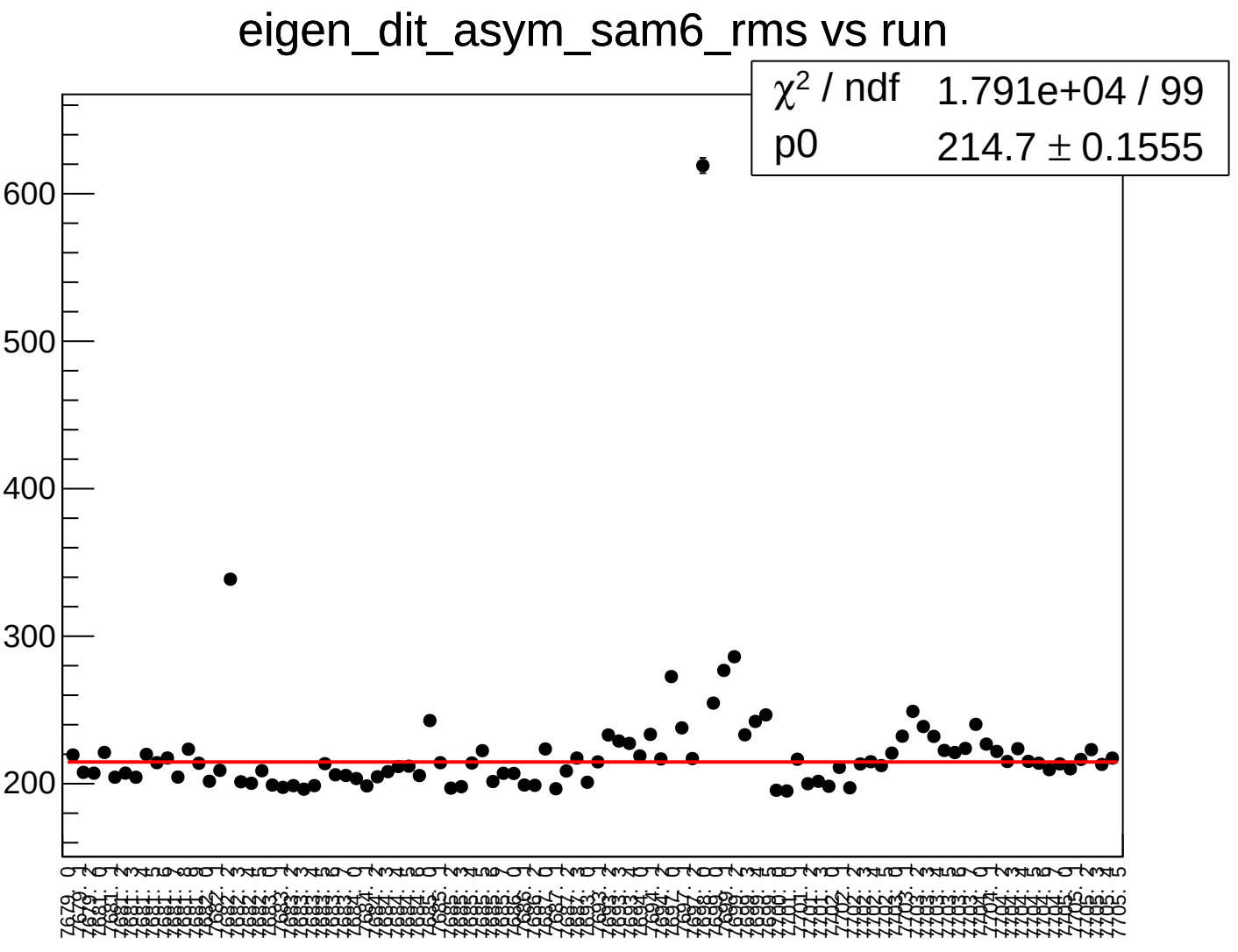

pull1D
Entries 100
Mean −0.01027
Std Dev 0.8975

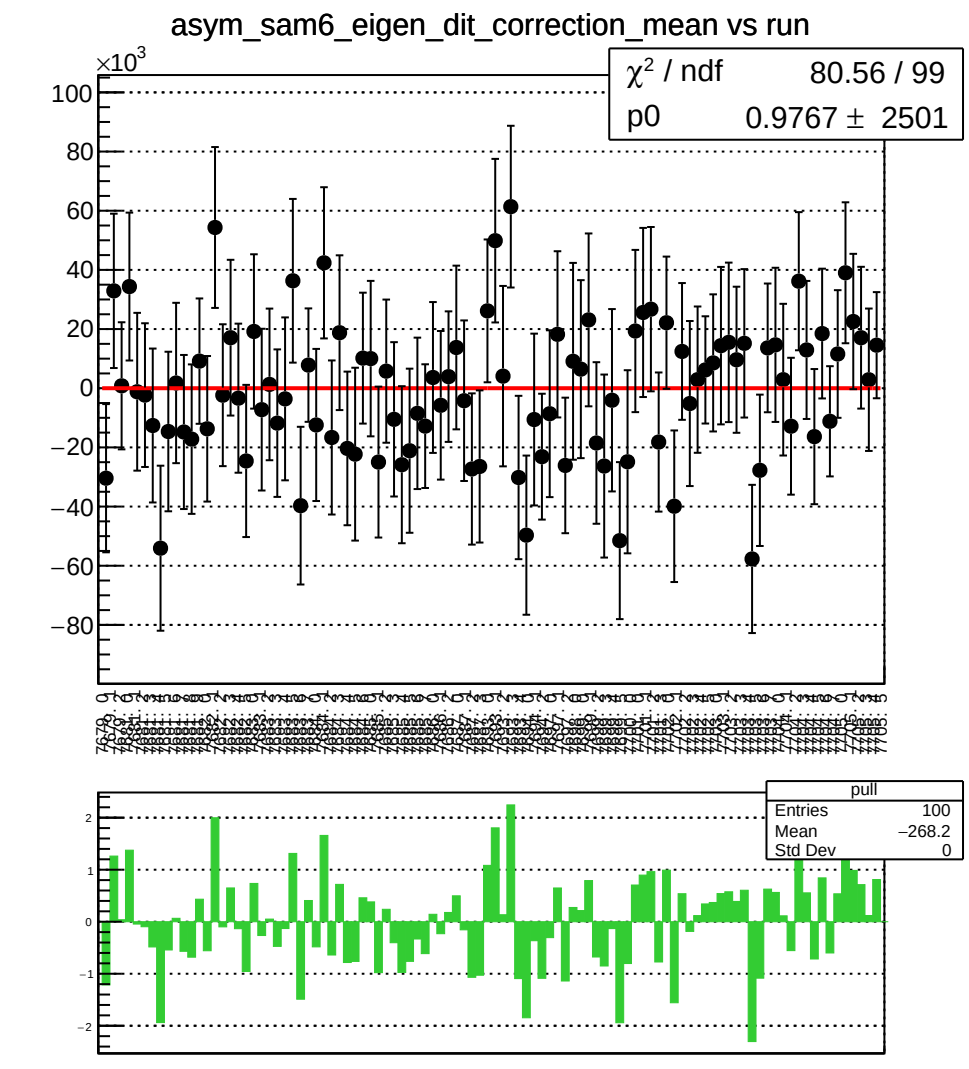
asym_sam6_dit_correction_rms vs run

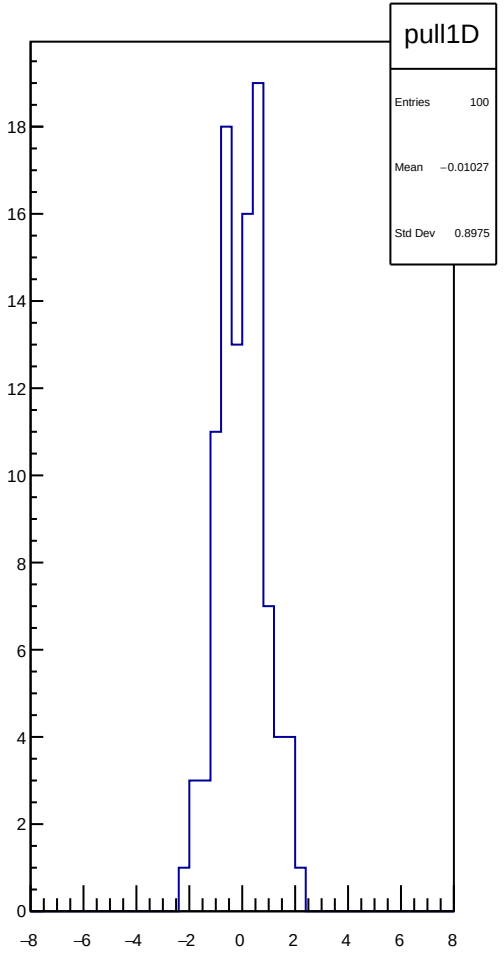


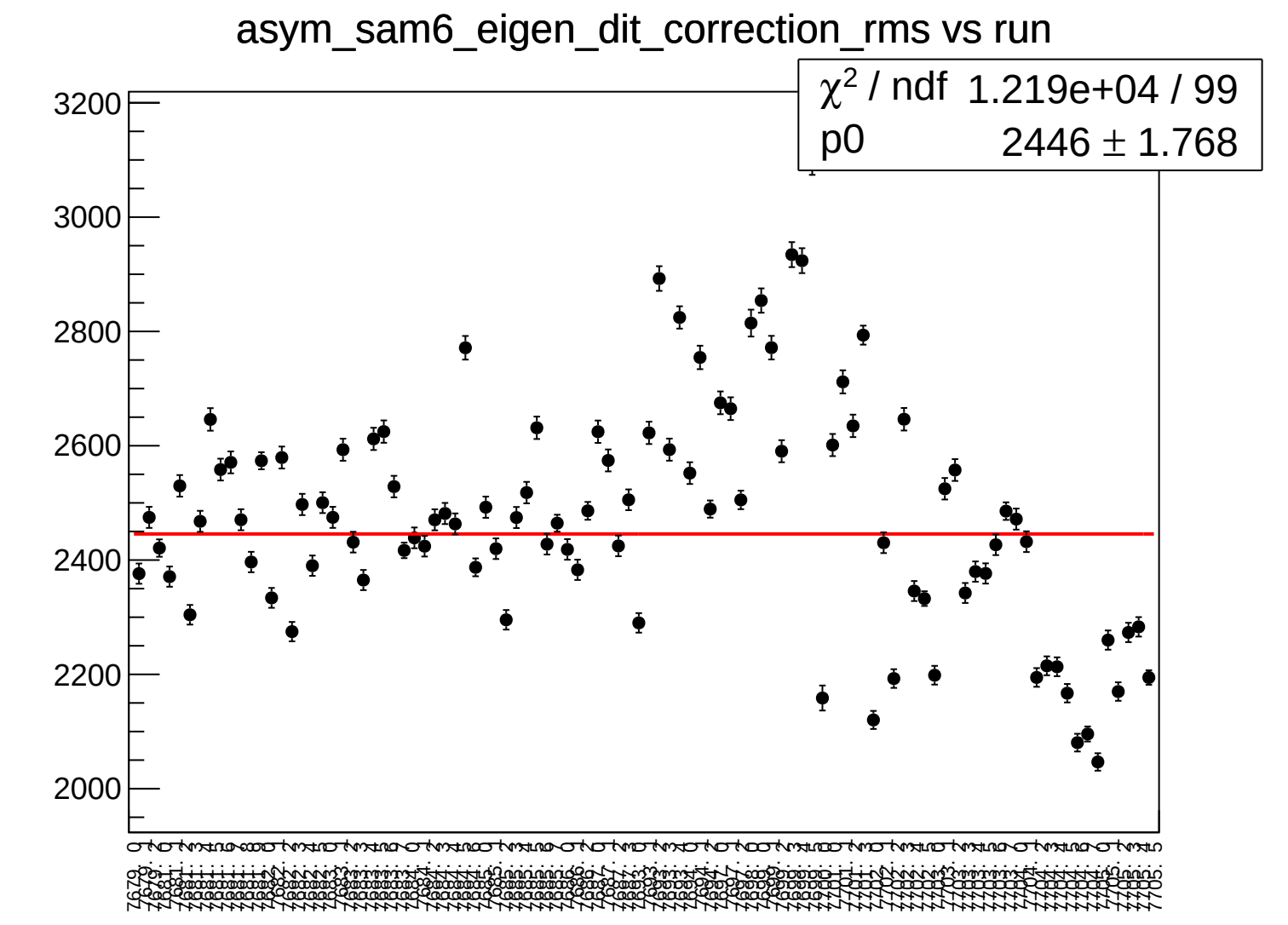

eigen_dit_asym_sam6_mean vs run
χ² / ndf 85.77 / 99
p0 −22.8 ± 219.9
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 100
Mean 205.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

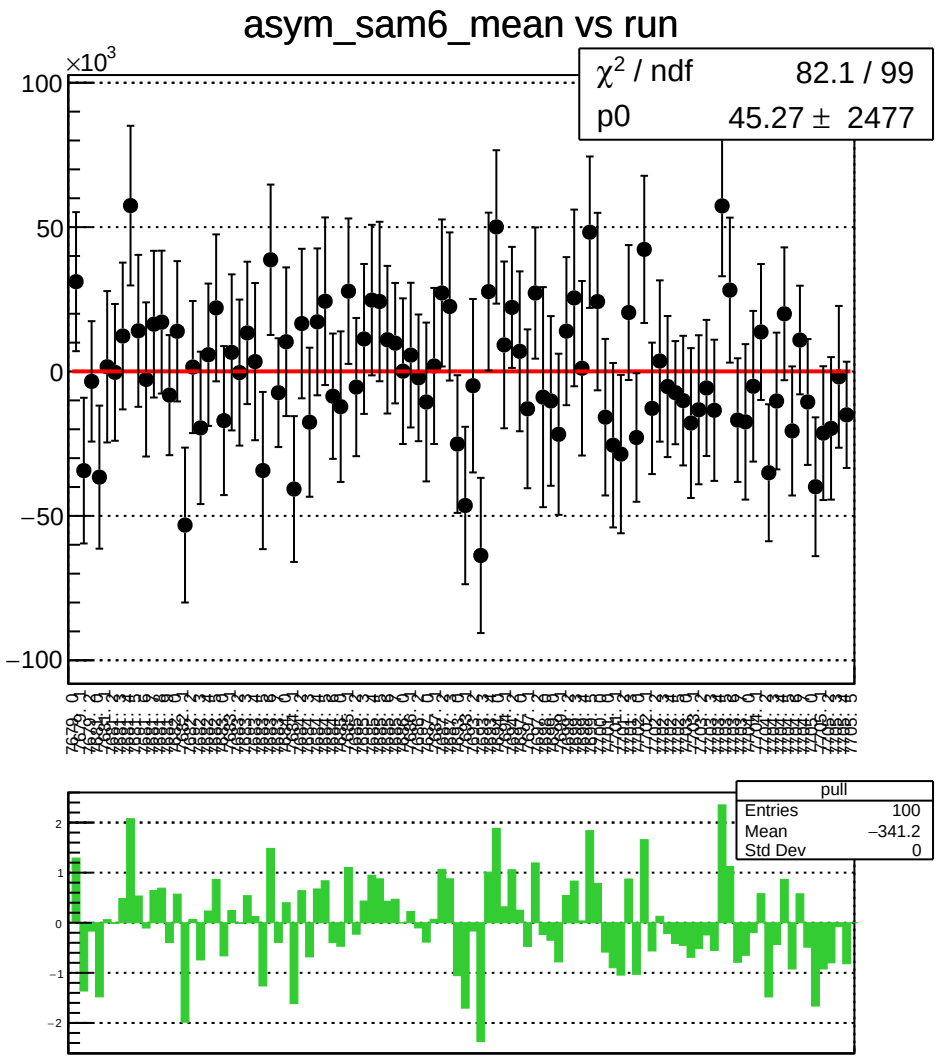

pull1D
Entries 100
Mean −0.005874
Std Dev 0.9261
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

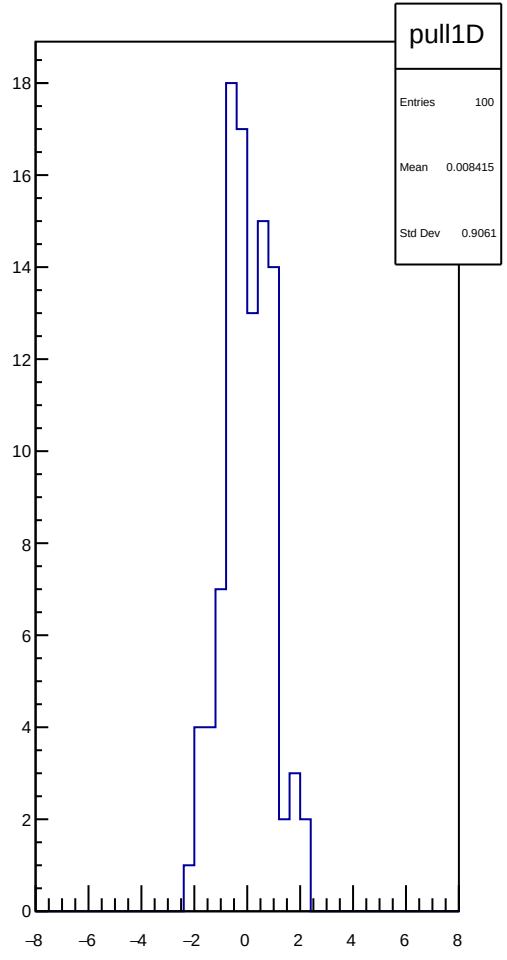

eigen_dit_asym_sam6_rms vs run
χ² / ndf 1.791e+04 / 99
p0 214.7 ± 0.1555
600
500
400
300
200

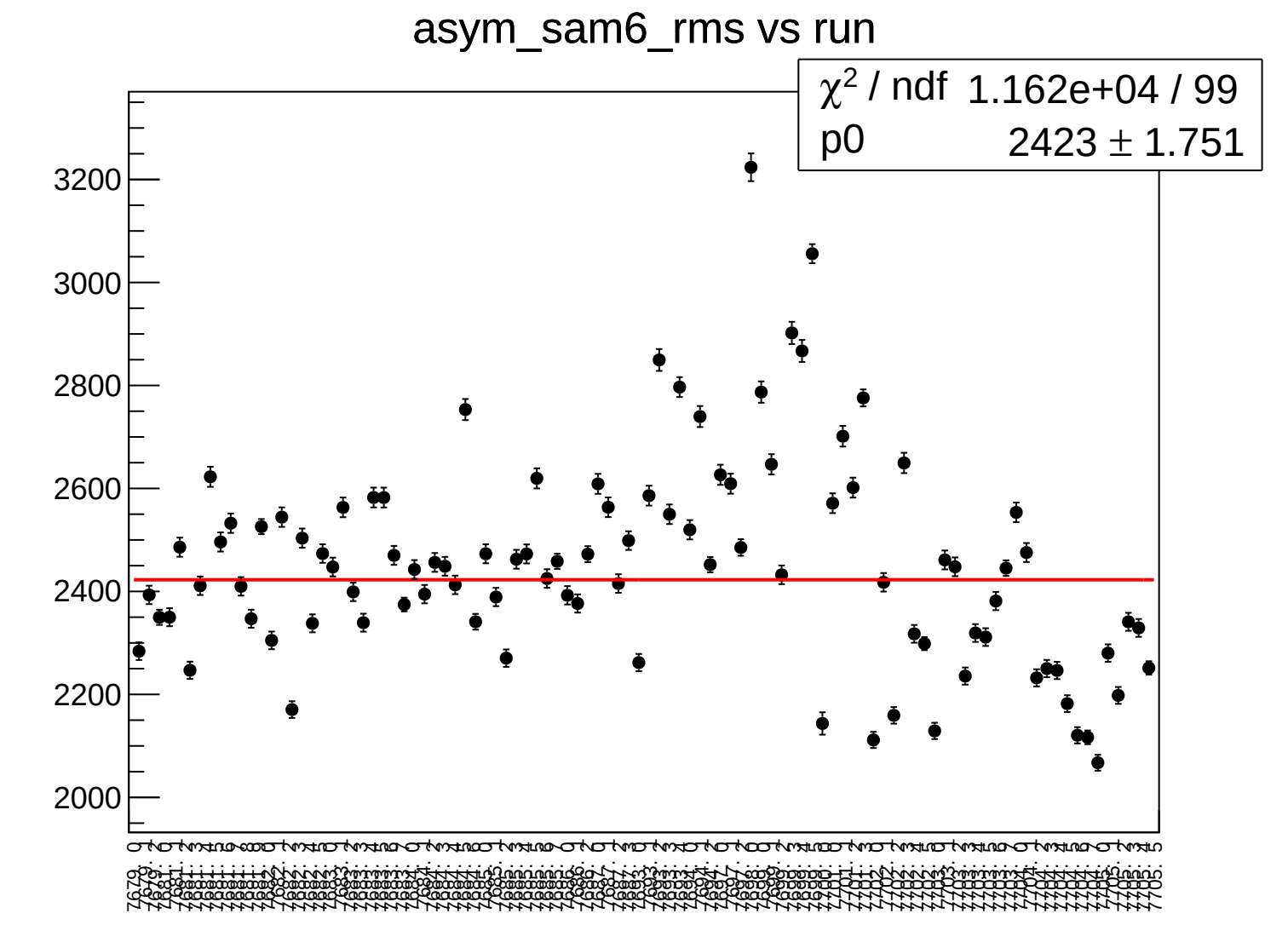

asym_sam6_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 80.56 / 99
p0 0.9767 ± 2501
pull
Entries 100
Mean −268.2
Std Dev 0

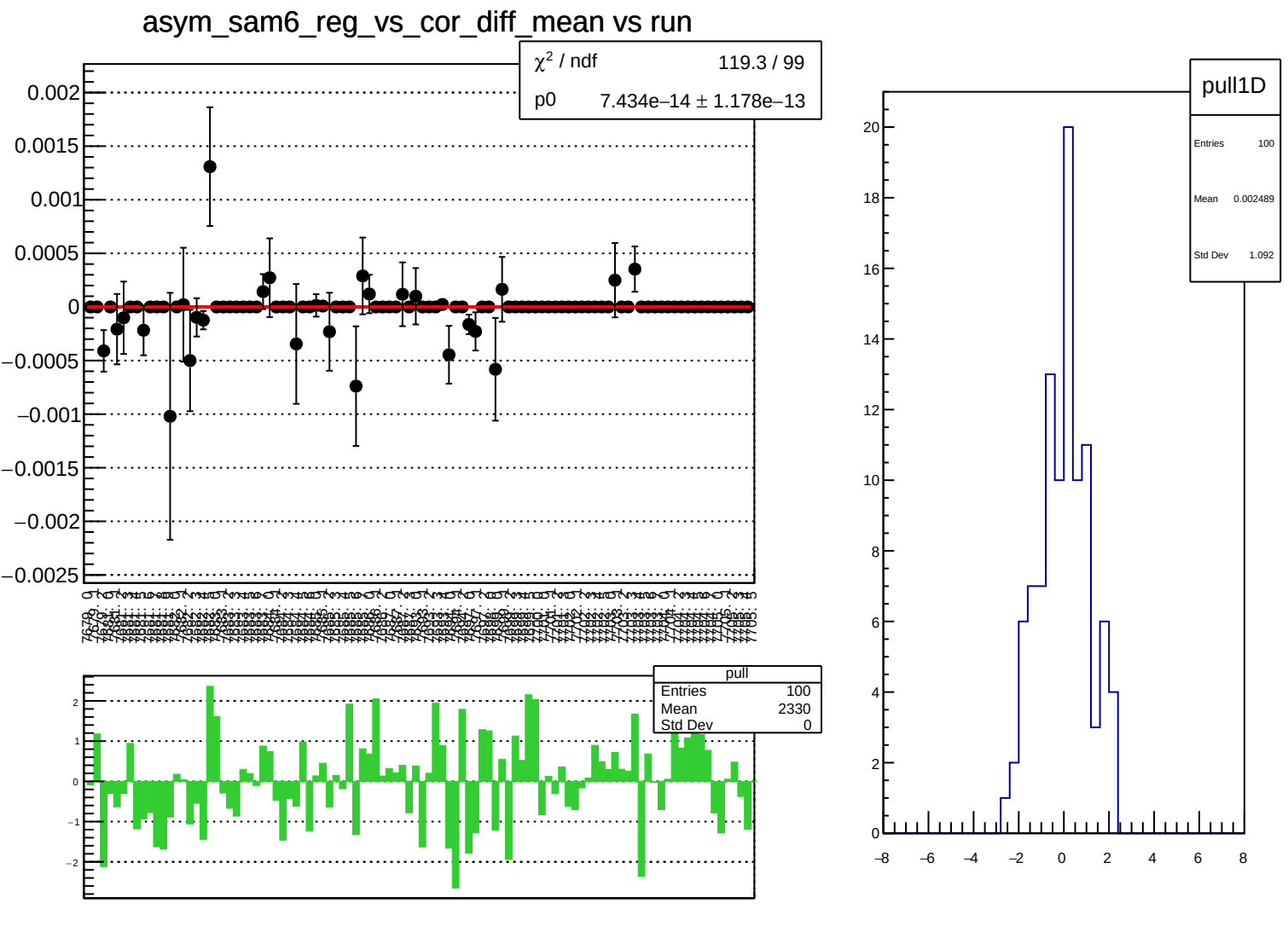

pull1D
Entries 100
Mean −0.01027
Std Dev 0.8975

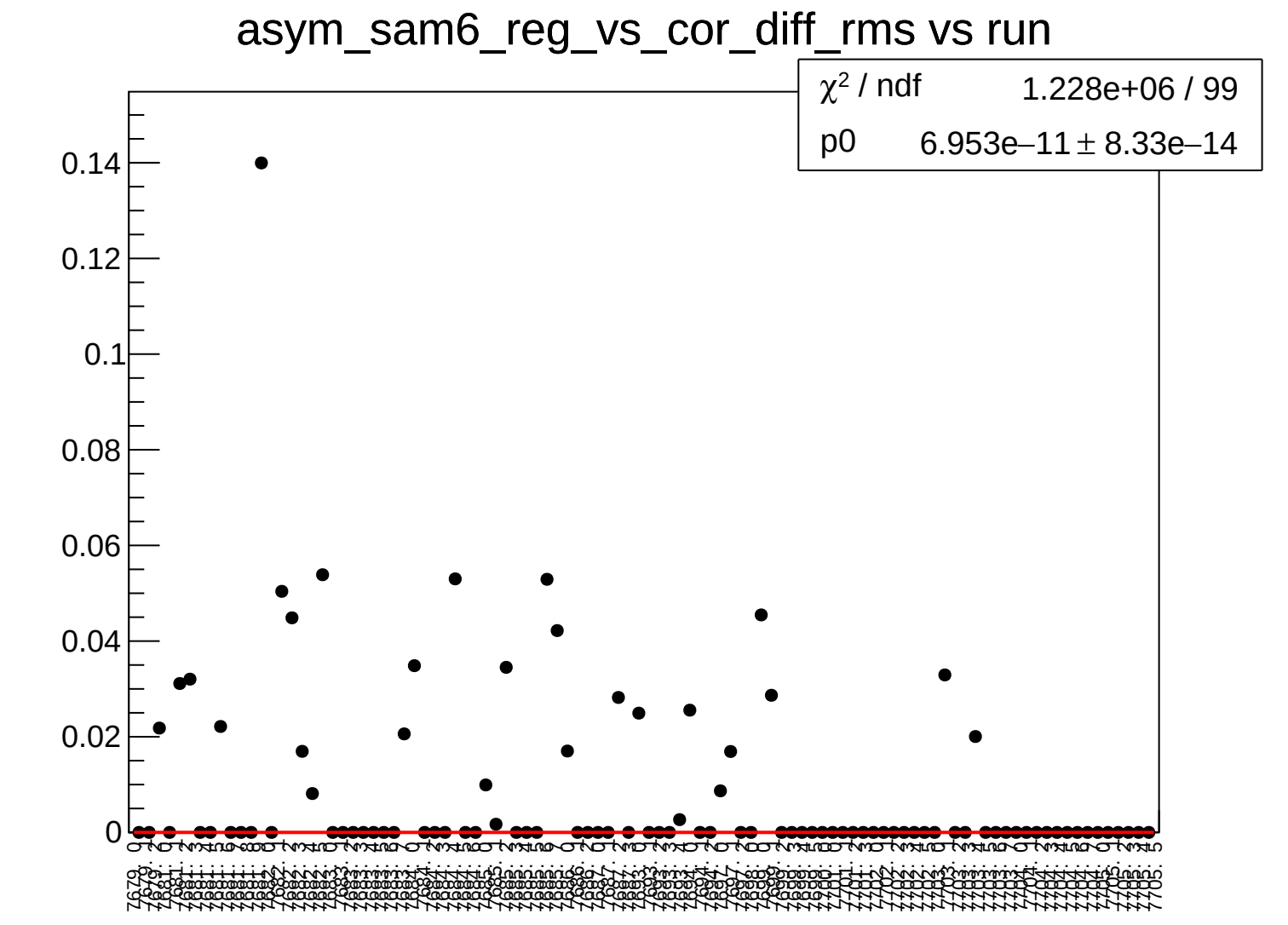

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 1.219e+04 / 99
p0 2446 ± 1.768
3200
3000
2800
2600
2400
2200
2000

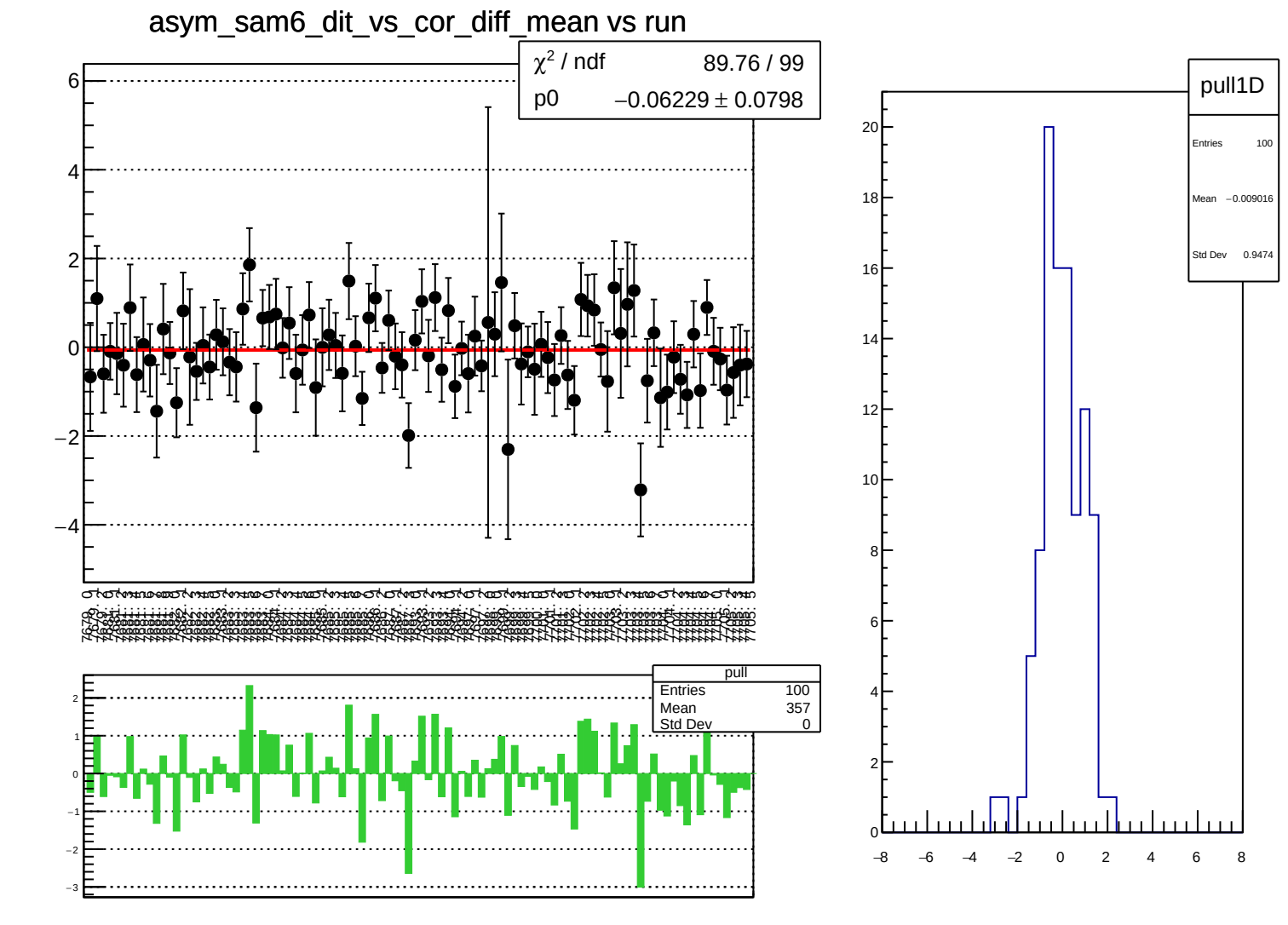

asym_sam6_mean vs run
χ² / ndf 82.1 / 99
p0 45.27 ± 2477
×10³
100
50
0
−50
−100
pull
Entries 100
Mean −341.2
Std Dev 0
2
1
0
−1
−2

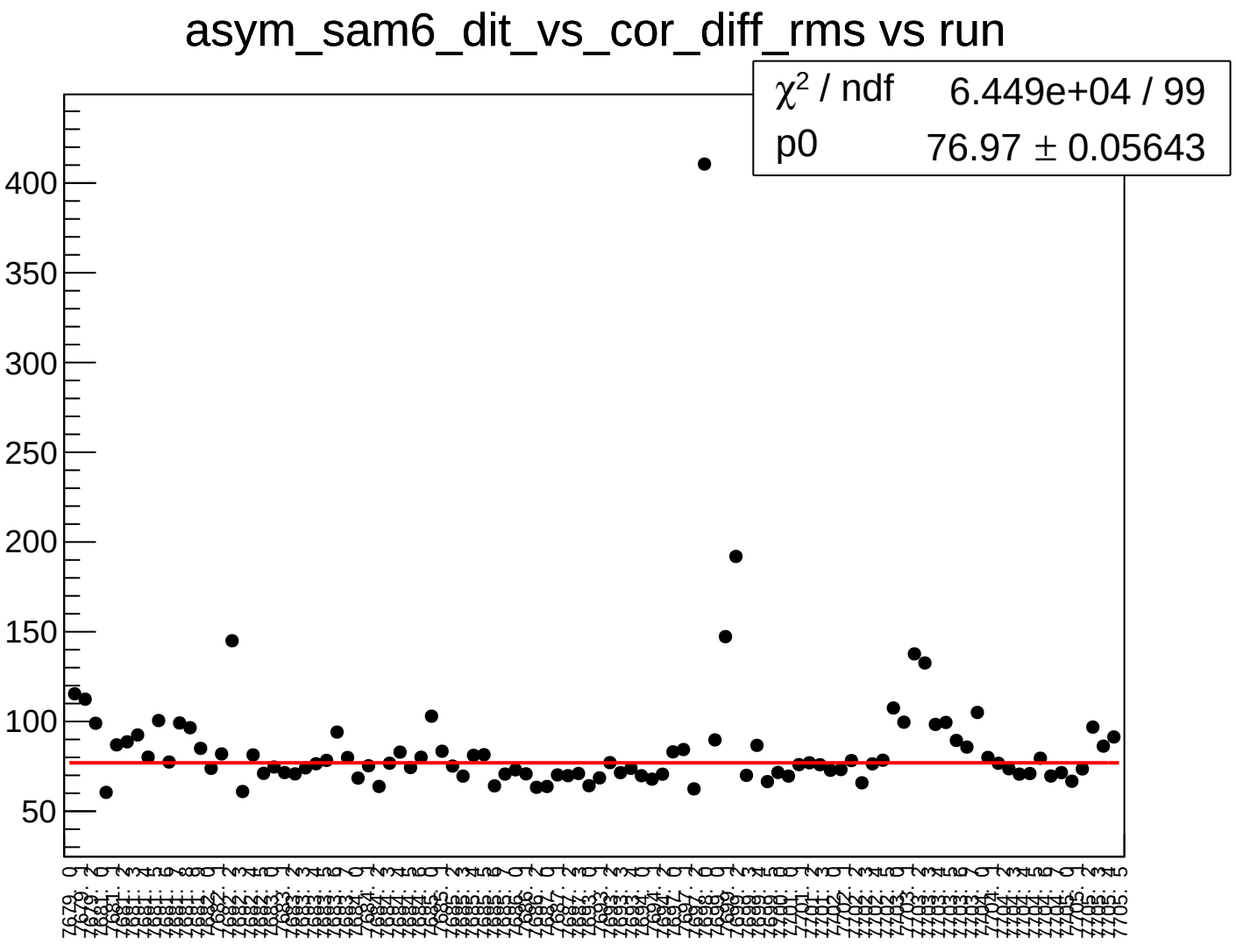

pull1D
Entries 100
Mean 0.008415
Std Dev 0.9061
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

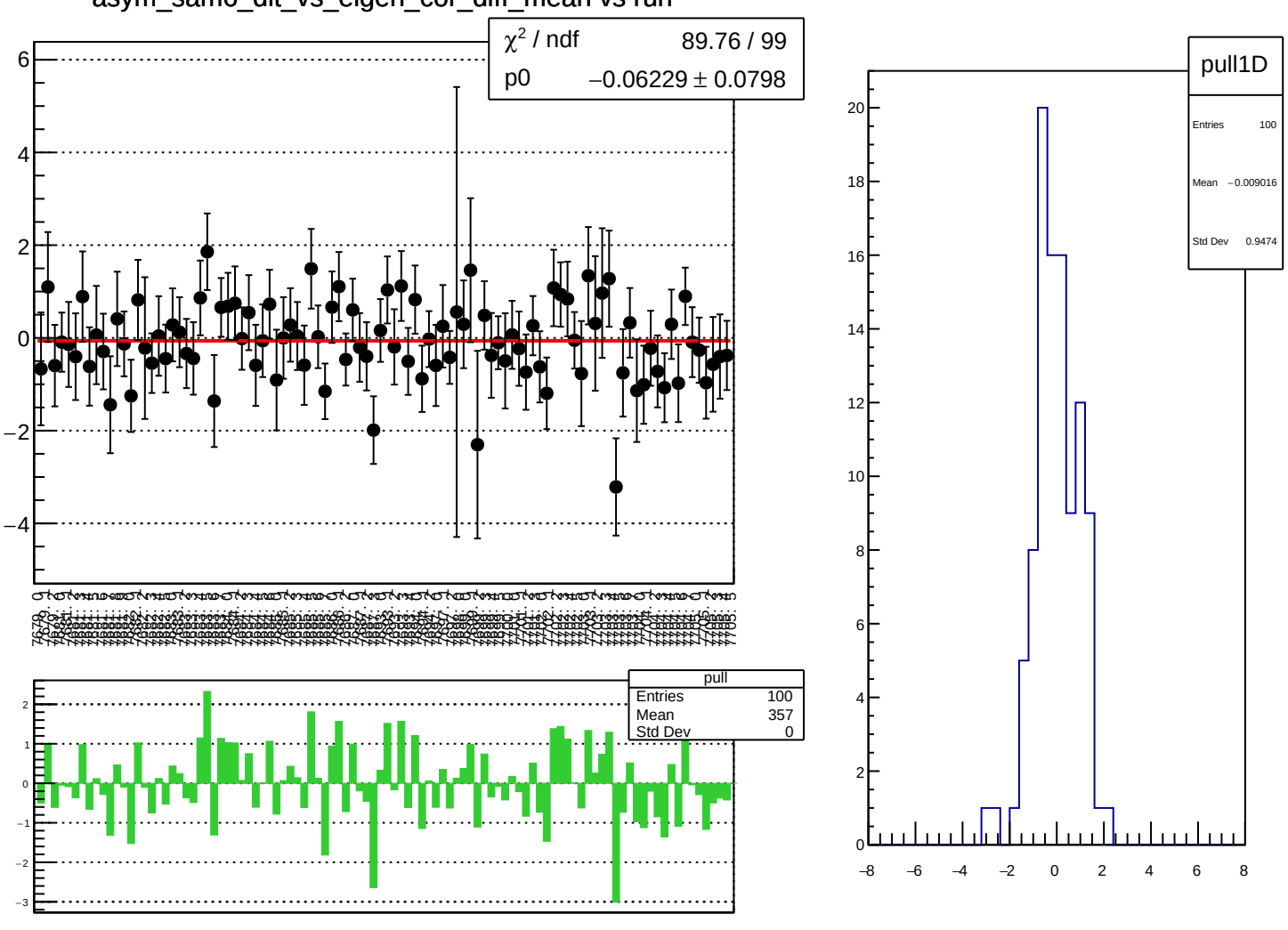

asym_sam6_rms vs run
χ^2 / ndf 1.162e+04 / 99
p0 2423 ± 1.751
3200
3000
2800
2600
2400
2200
2000

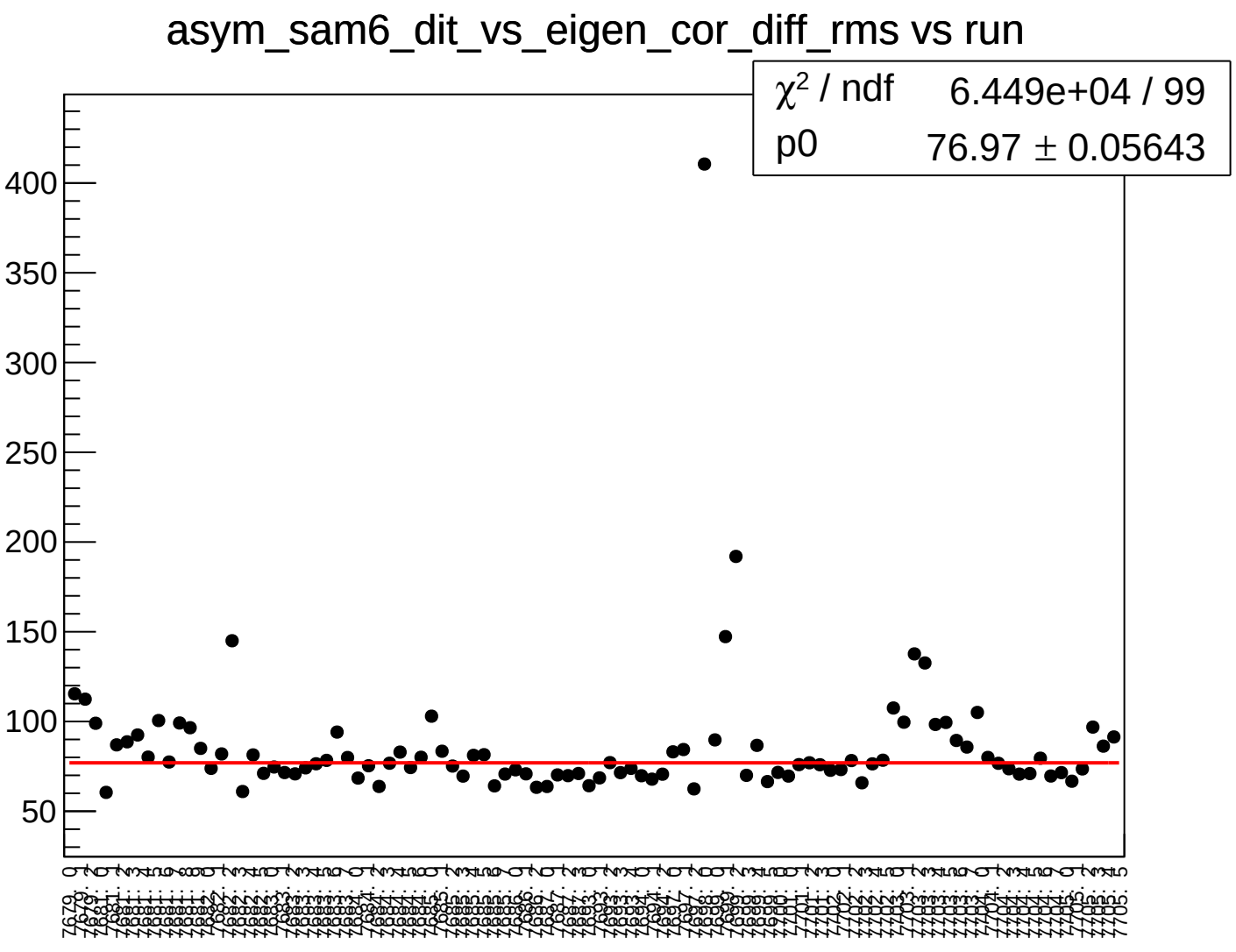

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 119.3 / 99
p0 7.434e−14 ± 1.178e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
pull
Entries 100
Mean 2330
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.002489
Std Dev 1.092
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

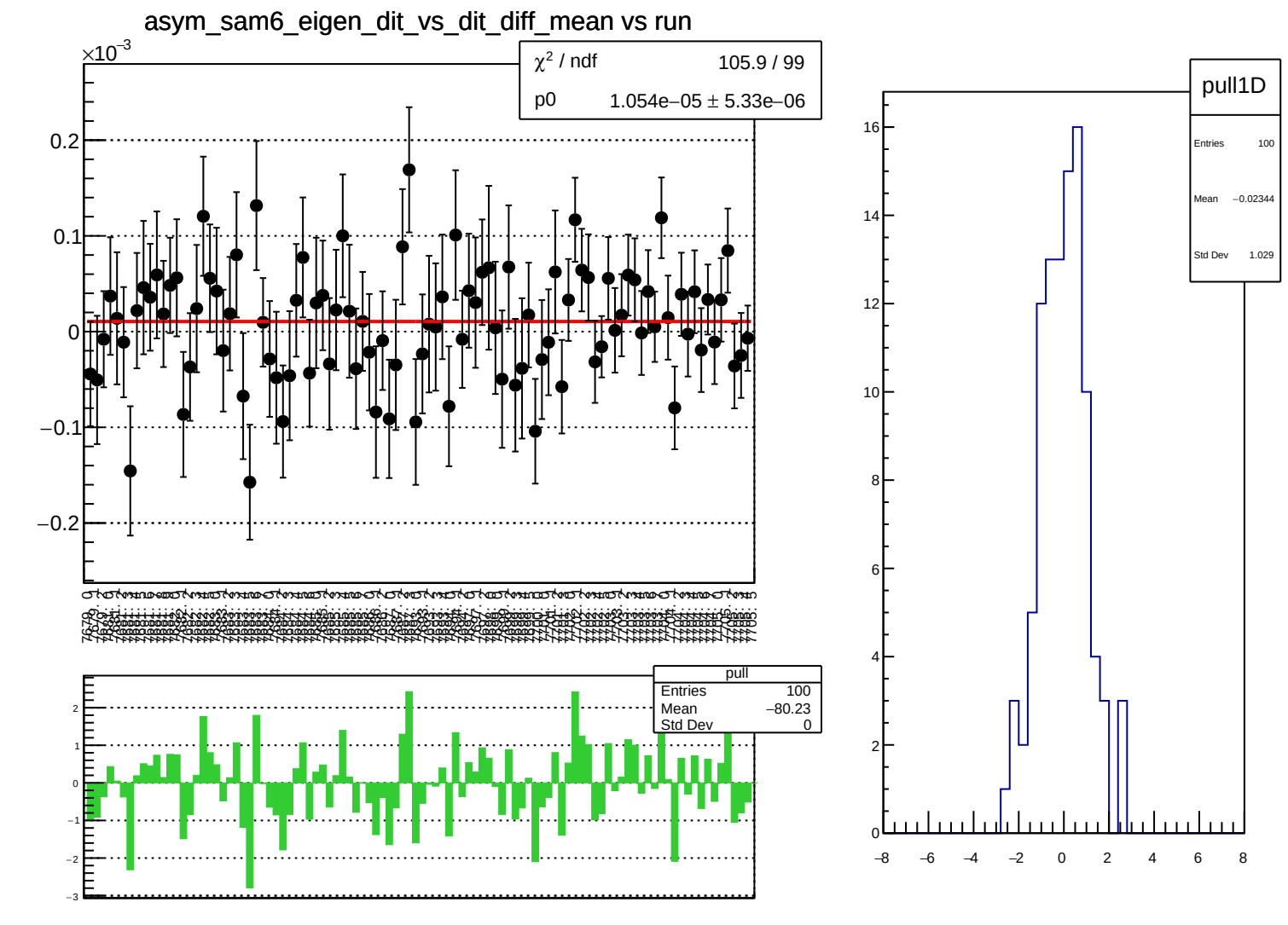

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 1.228e+06 / 99
p0 6.953e−11 ± 8.33e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

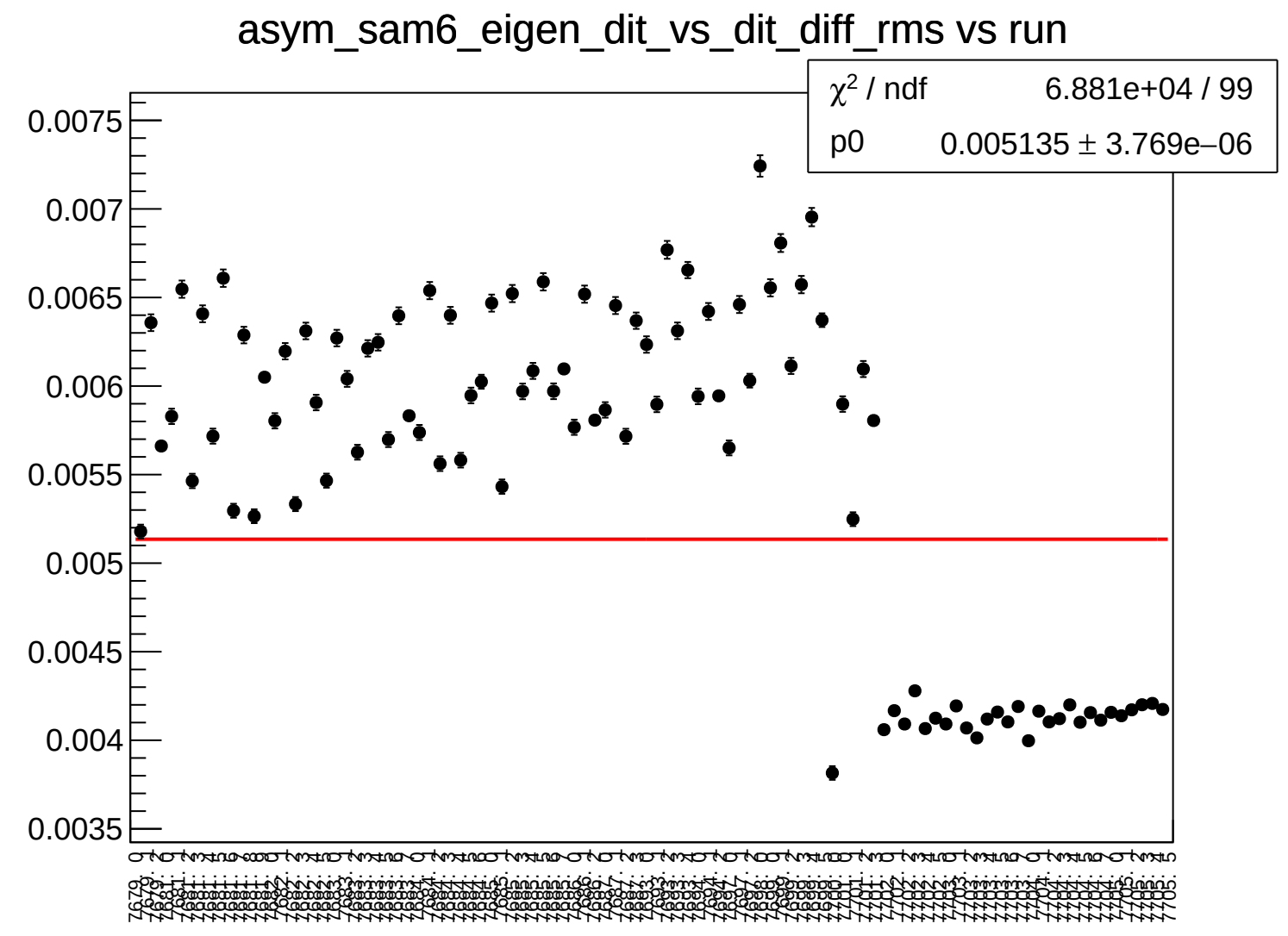

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 89.76 / 99
p0 −0.06229 ± 0.0798
pull
Entries 100
Mean 357
Std Dev 0
pull1D
Entries 100
Mean −0.009016
Std Dev 0.9474

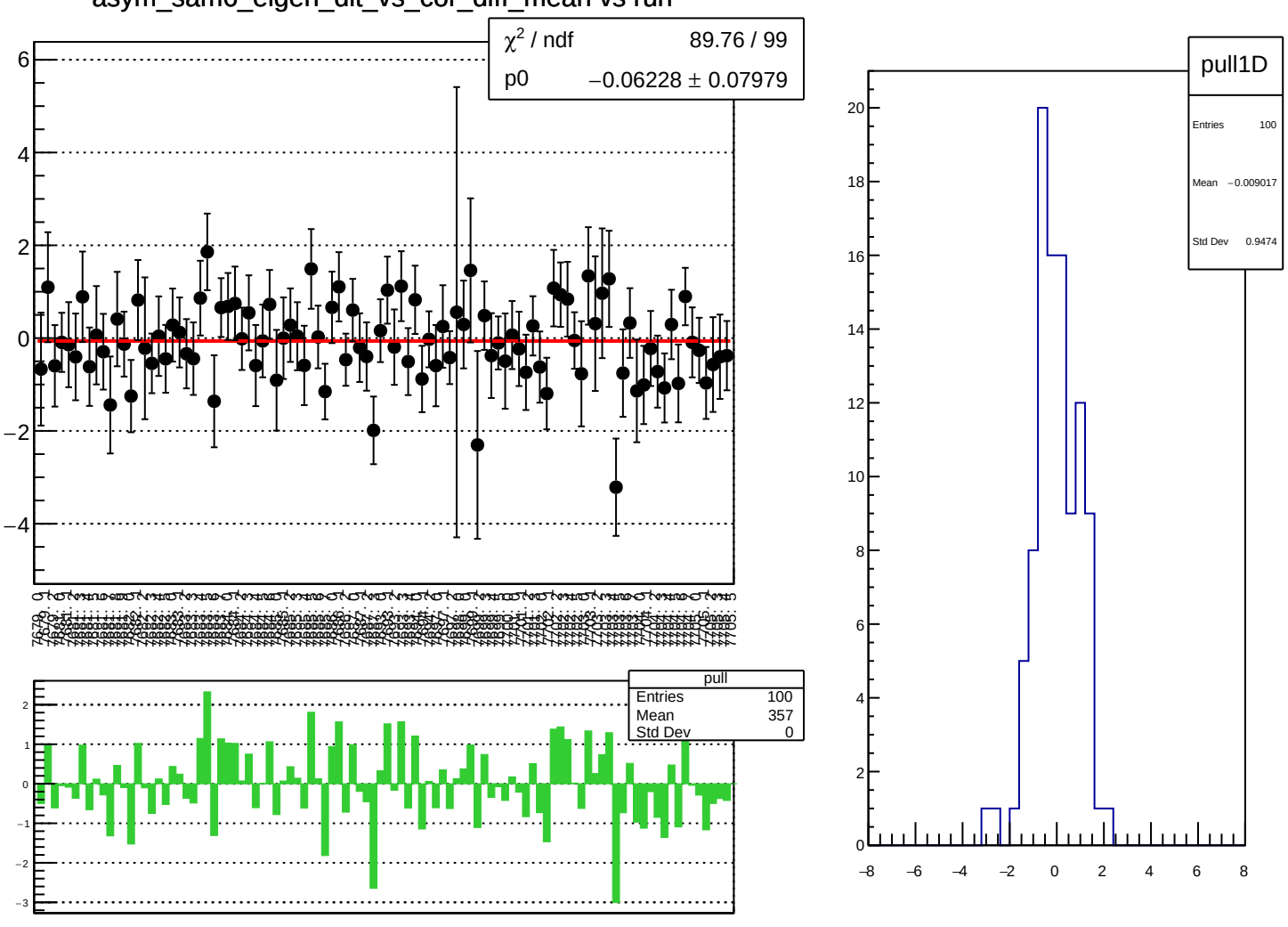

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 6.449e+04 / 99
p0 76.97 ± 0.05643
400
350
300
250
200
150
100
50

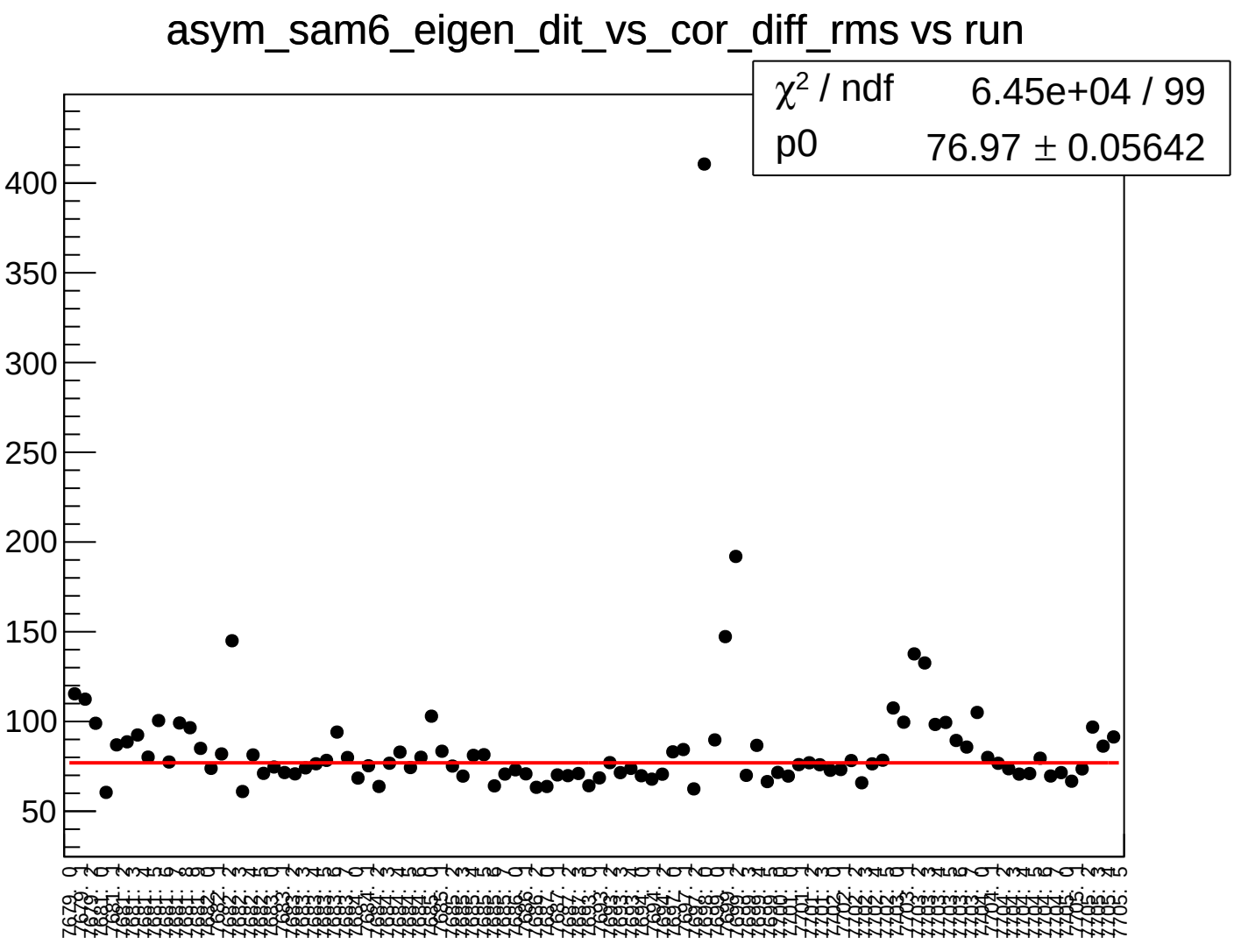

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.76 / 99
p0 −0.06229 ± 0.0798
pull
Entries 100
Mean 357
Std Dev 0
pull1D
Entries 100
Mean −0.009016
Std Dev 0.9474

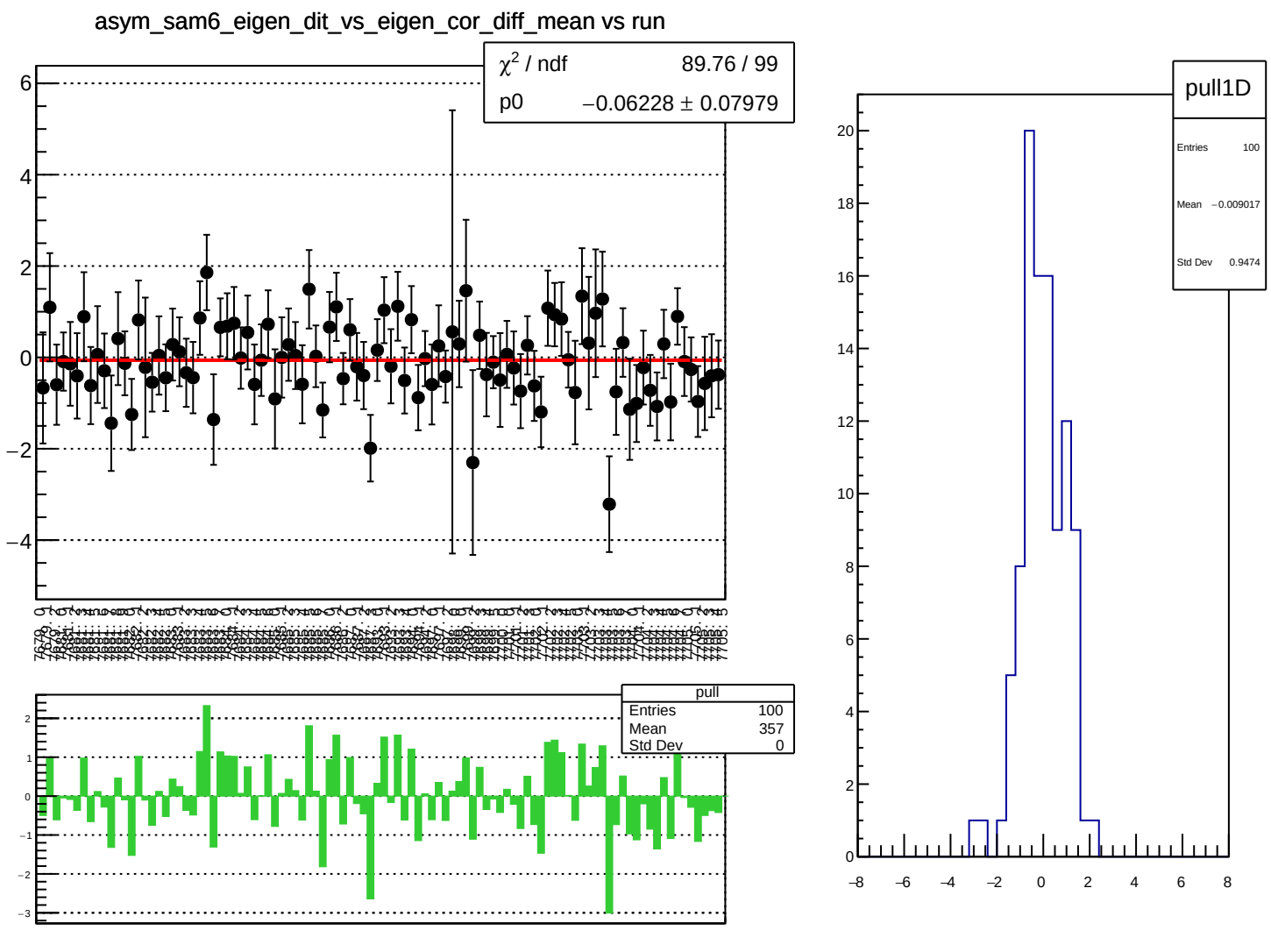

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.449e+04 / 99
p0 76.97 ± 0.05643
400
350
300
250
200
150
100
50

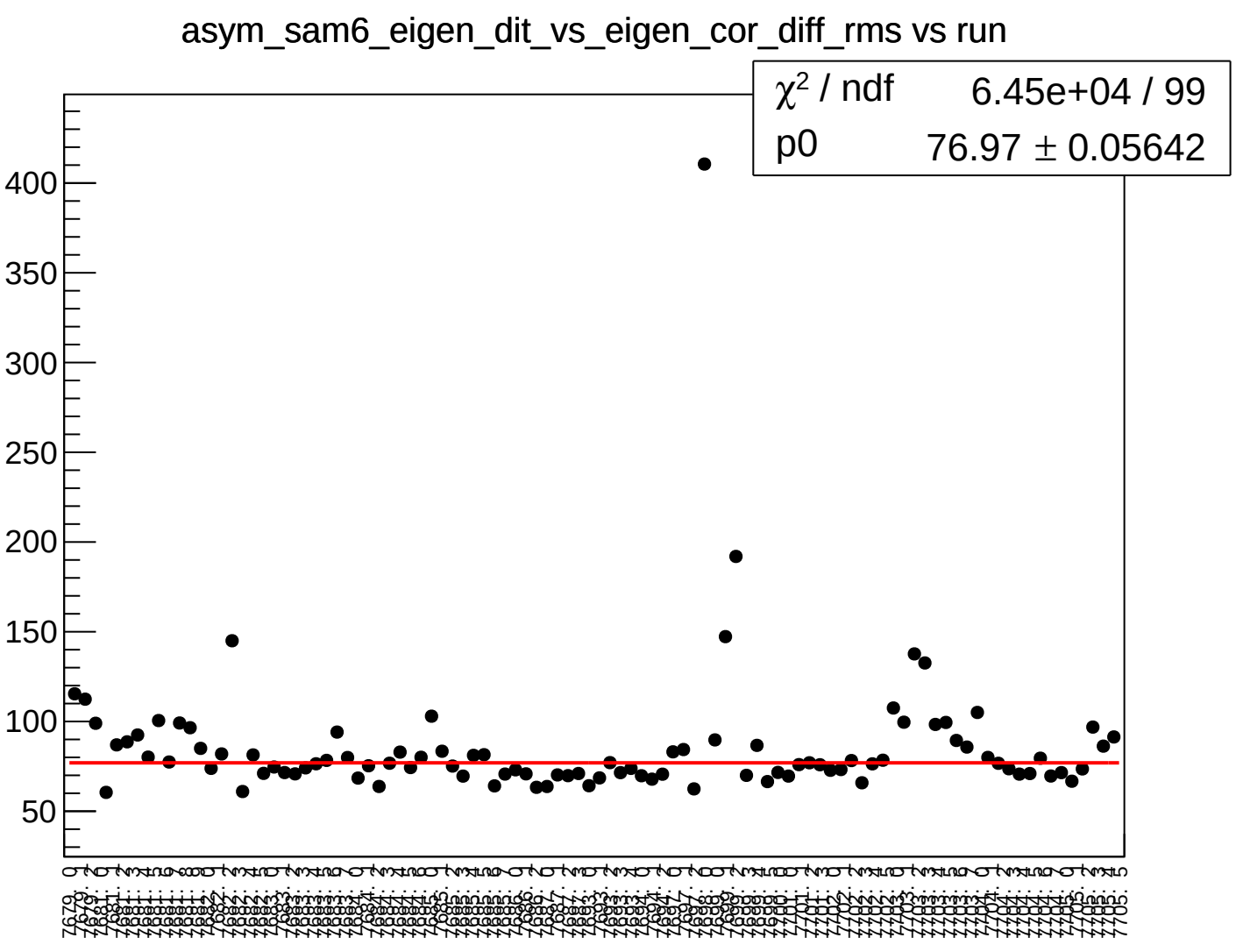

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 105.9 / 99
p0 1.054e−05 ± 5.33e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 100
Mean −80.23
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean −0.02344
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

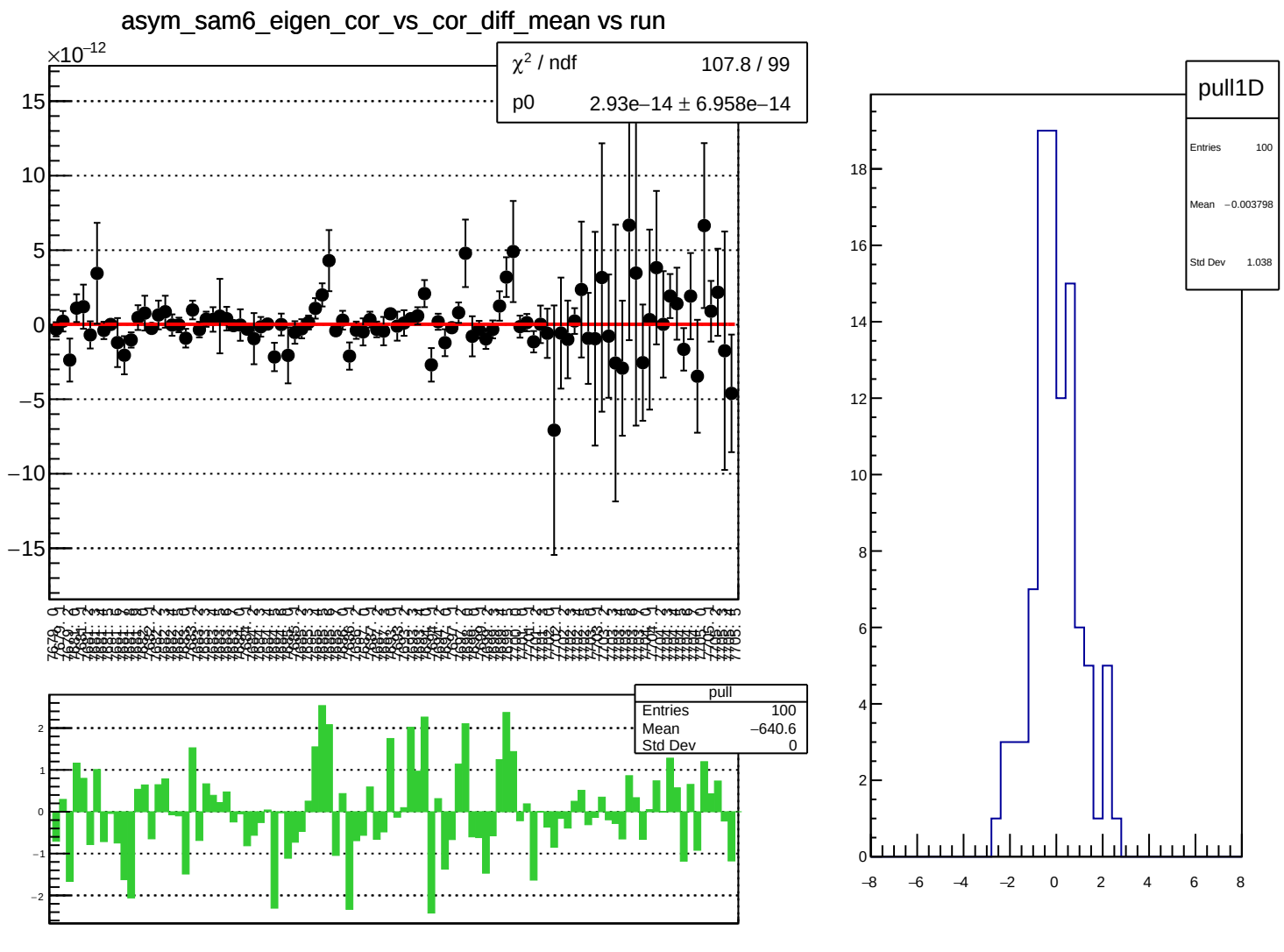

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.881e+04 / 99
p0 0.005135 ± 3.769e−06
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

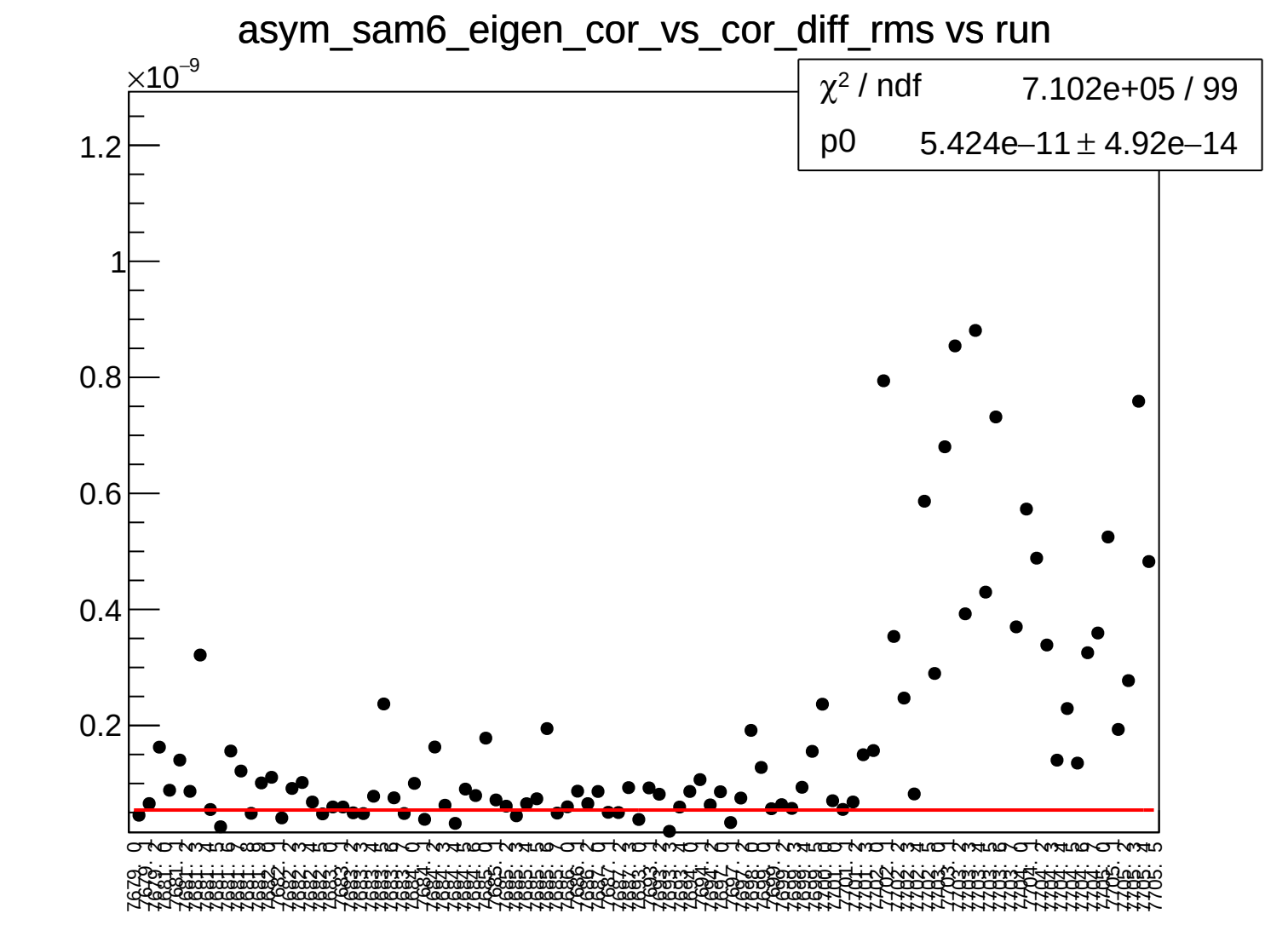

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.76 / 99
p0 −0.06228 ± 0.07979
pull
Entries 100
Mean 357
Std Dev 0
pull1D
Entries 100
Mean −0.009017
Std Dev 0.9474

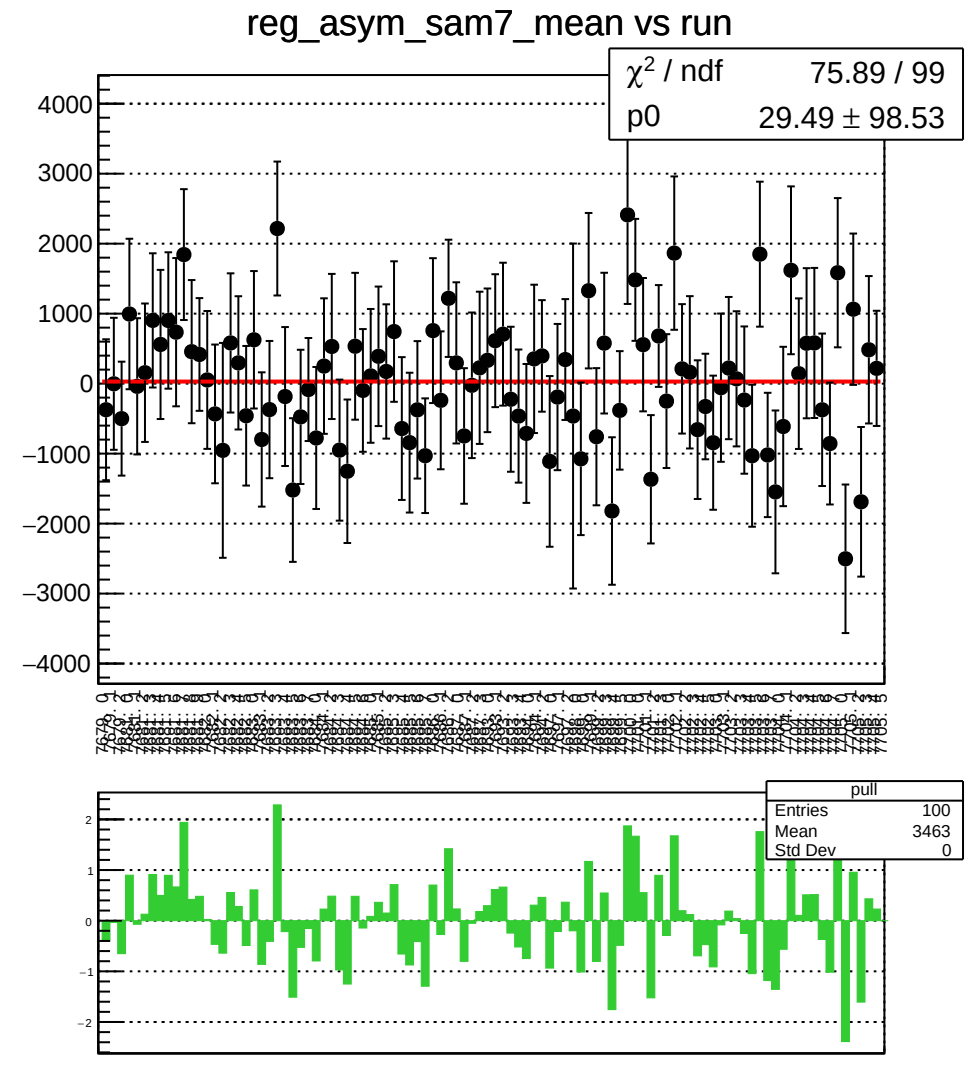

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.45e+04 / 99
p0 76.97 ± 0.05642
400
350
300
250
200
150
100
50

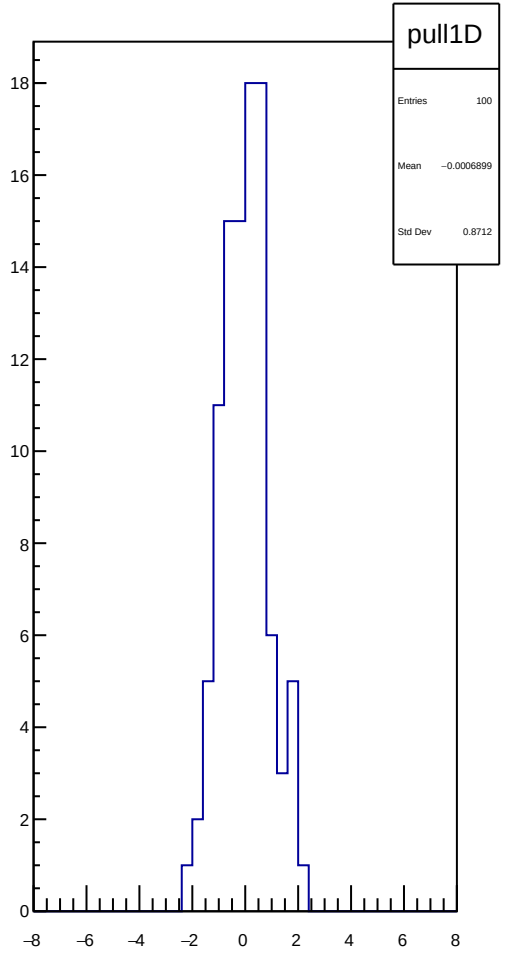

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.76 / 99
p0 −0.06228 ± 0.07979
pull
Entries 100
Mean 357
Std Dev 0
pull1D
Entries 100
Mean −0.009017
Std Dev 0.9474

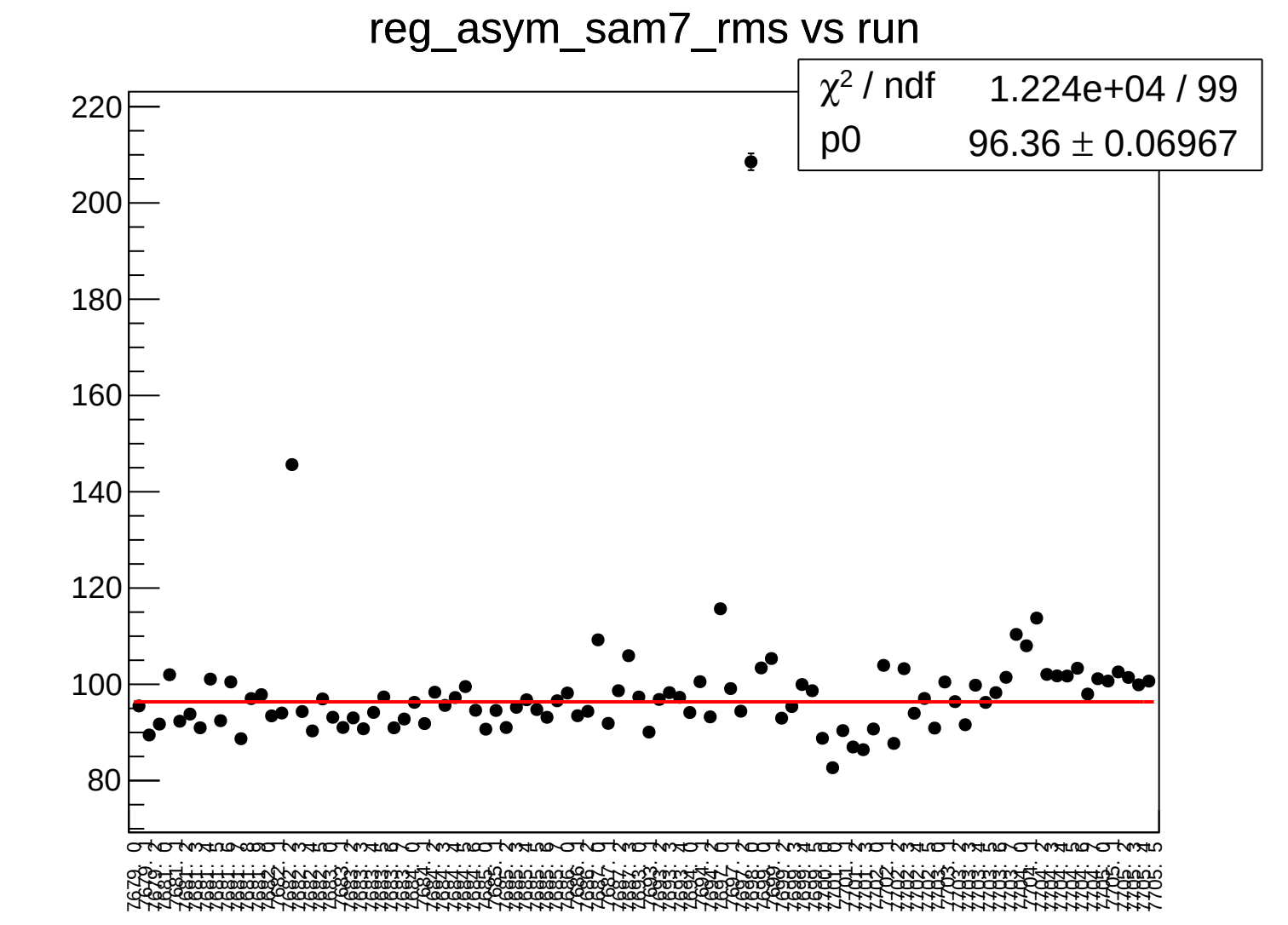

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.45e+04 / 99
p0 76.97 ± 0.05642
400
350
300
250
200
150
100
50

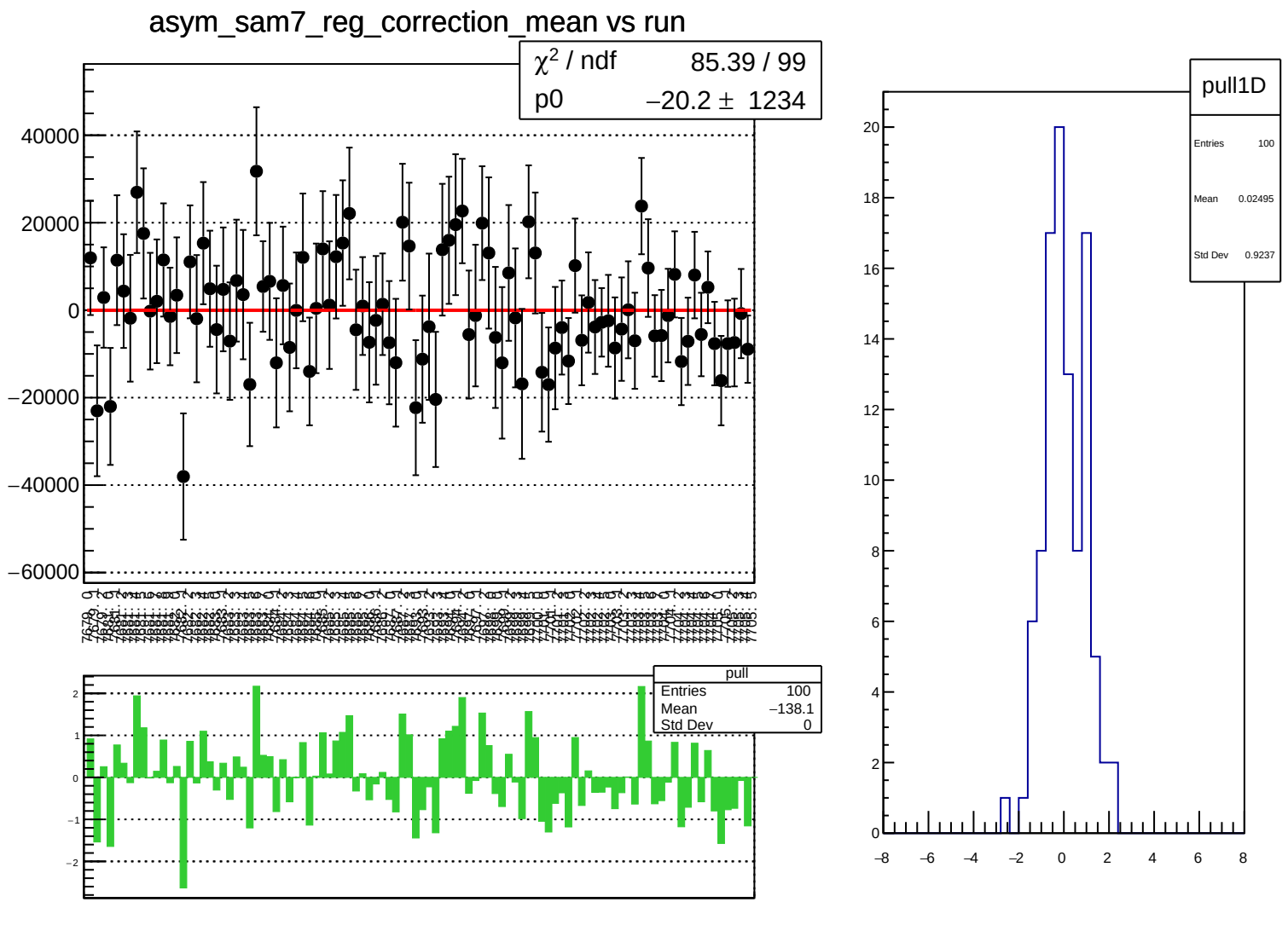

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 107.8 / 99
p0 2.93e−14 ± 6.958e−14
15
10
5
0
−5
−10
−15
pull
Entries 100
Mean −640.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.003798
Std Dev 1.038
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

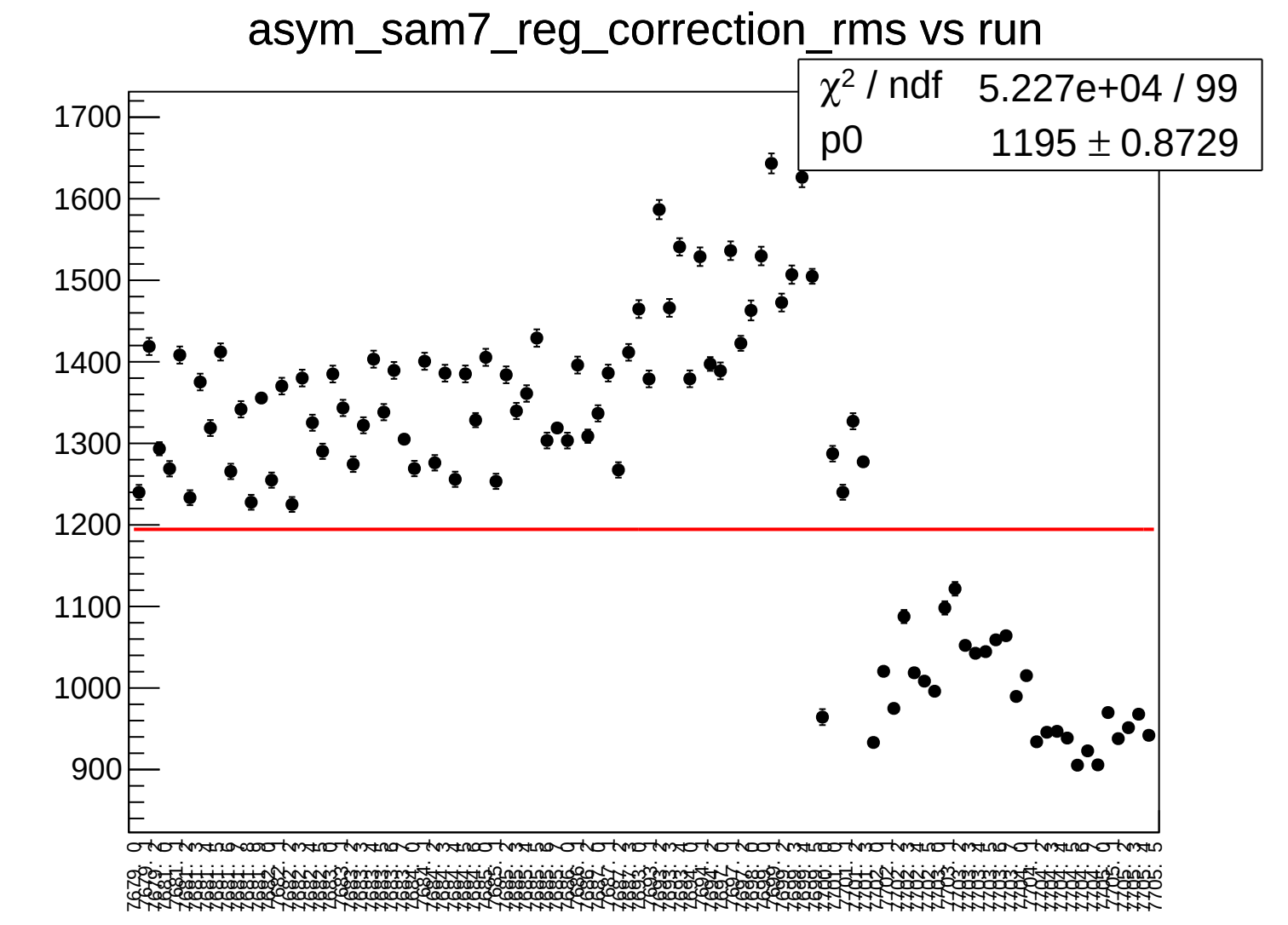

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.102e+05 / 99
p0 5.424e−11 ± 4.92e−14
1.2
1
0.8
0.6
0.4
0.2

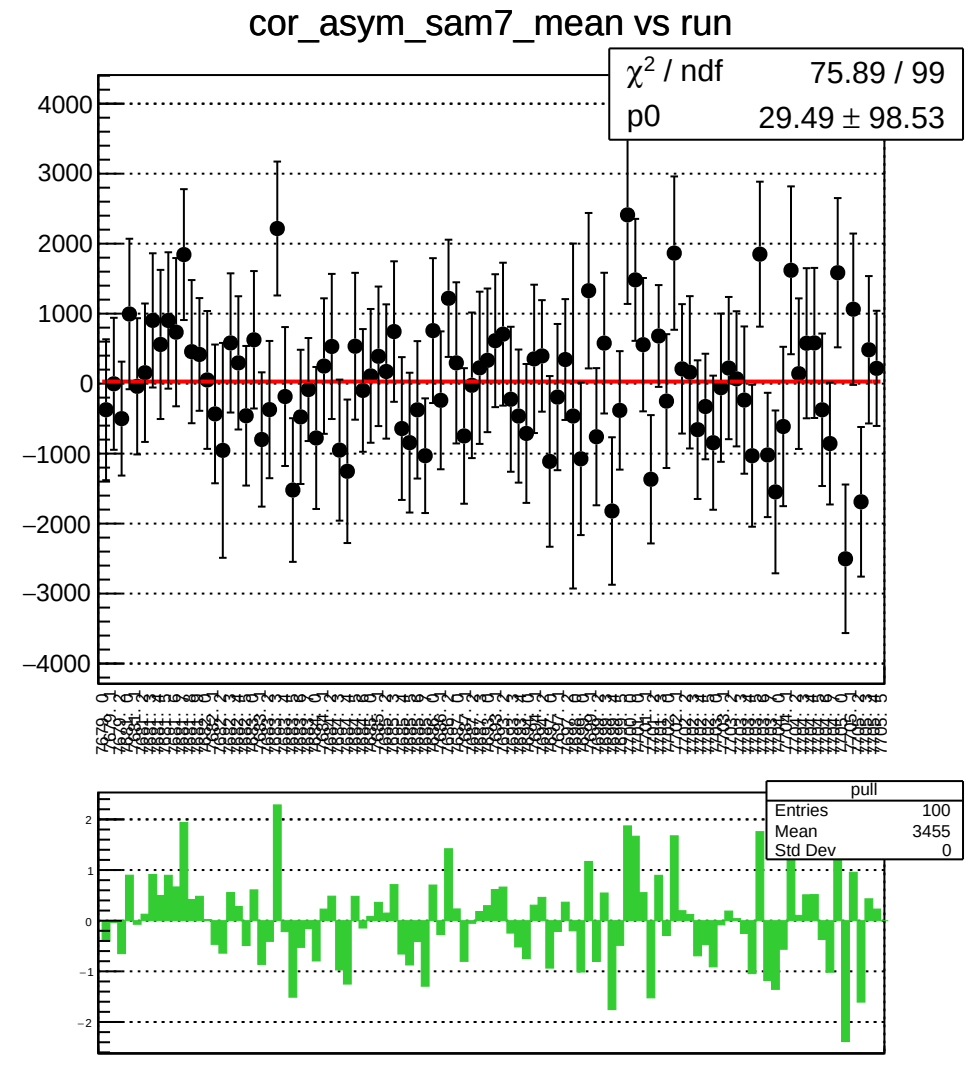

reg_asym_sam7_mean vs run
χ² / ndf 75.89 / 99
p0 29.49 ± 98.53
pull
Entries 100
Mean 3463
Std Dev 0

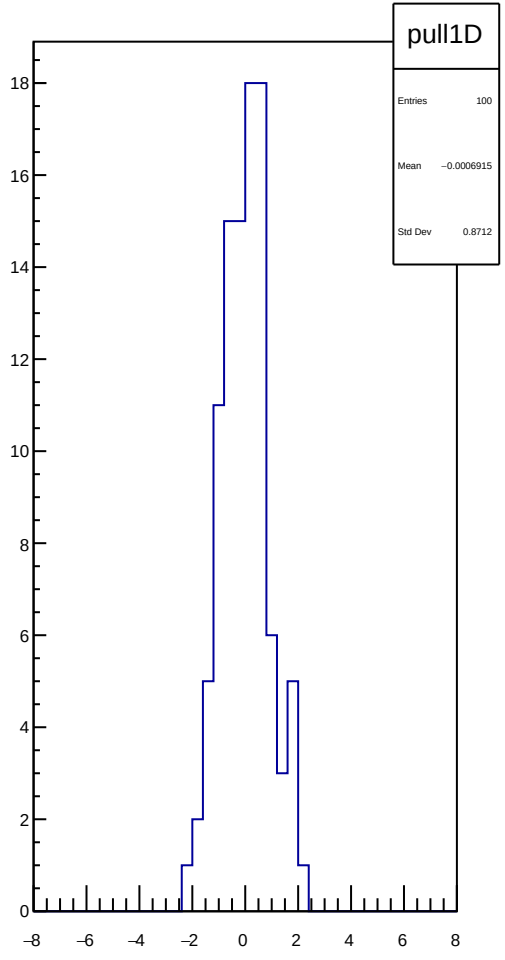

pull1D
Entries 100
Mean −0.0006899
Std Dev 0.8712

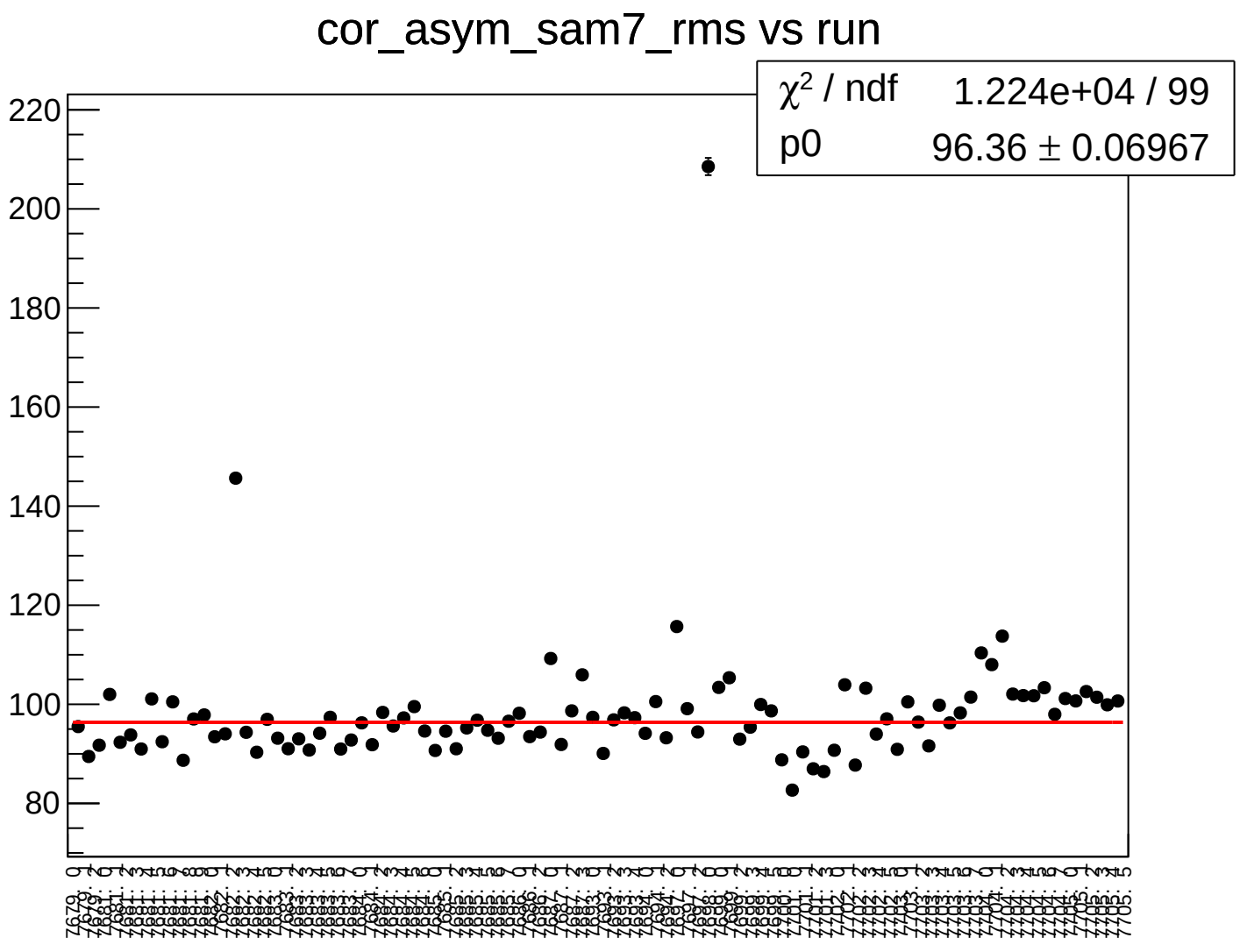

reg_asym_sam7_rms vs run
χ² / ndf 1.224e+04 / 99
p0 96.36 ± 0.06967
220
200
180
160
140
120
100
80

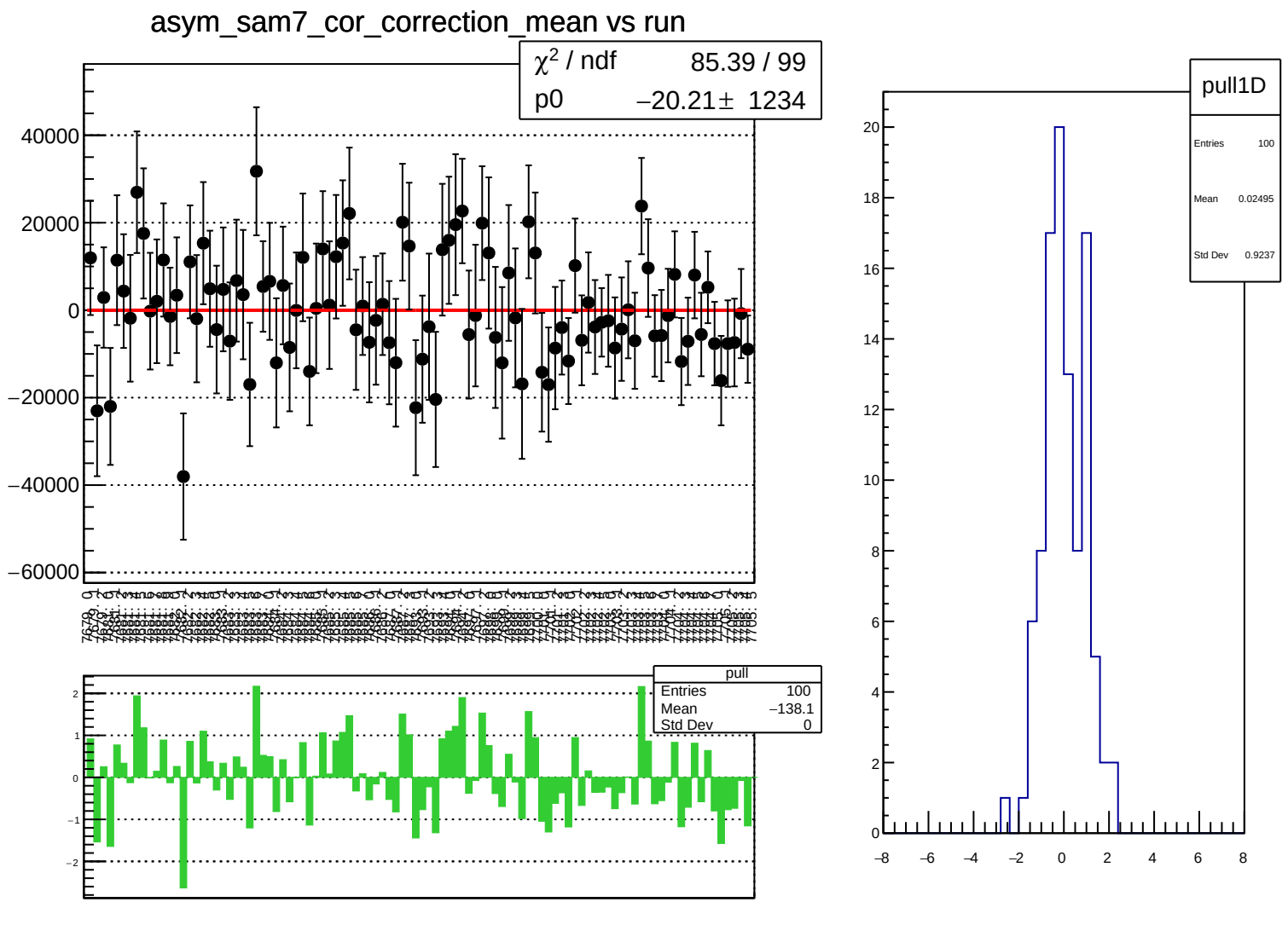

asym_sam7_reg_correction_mean vs run
χ² / ndf 85.39 / 99
p0 −20.2 ± 1234
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −138.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.02495
Std Dev 0.9237
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

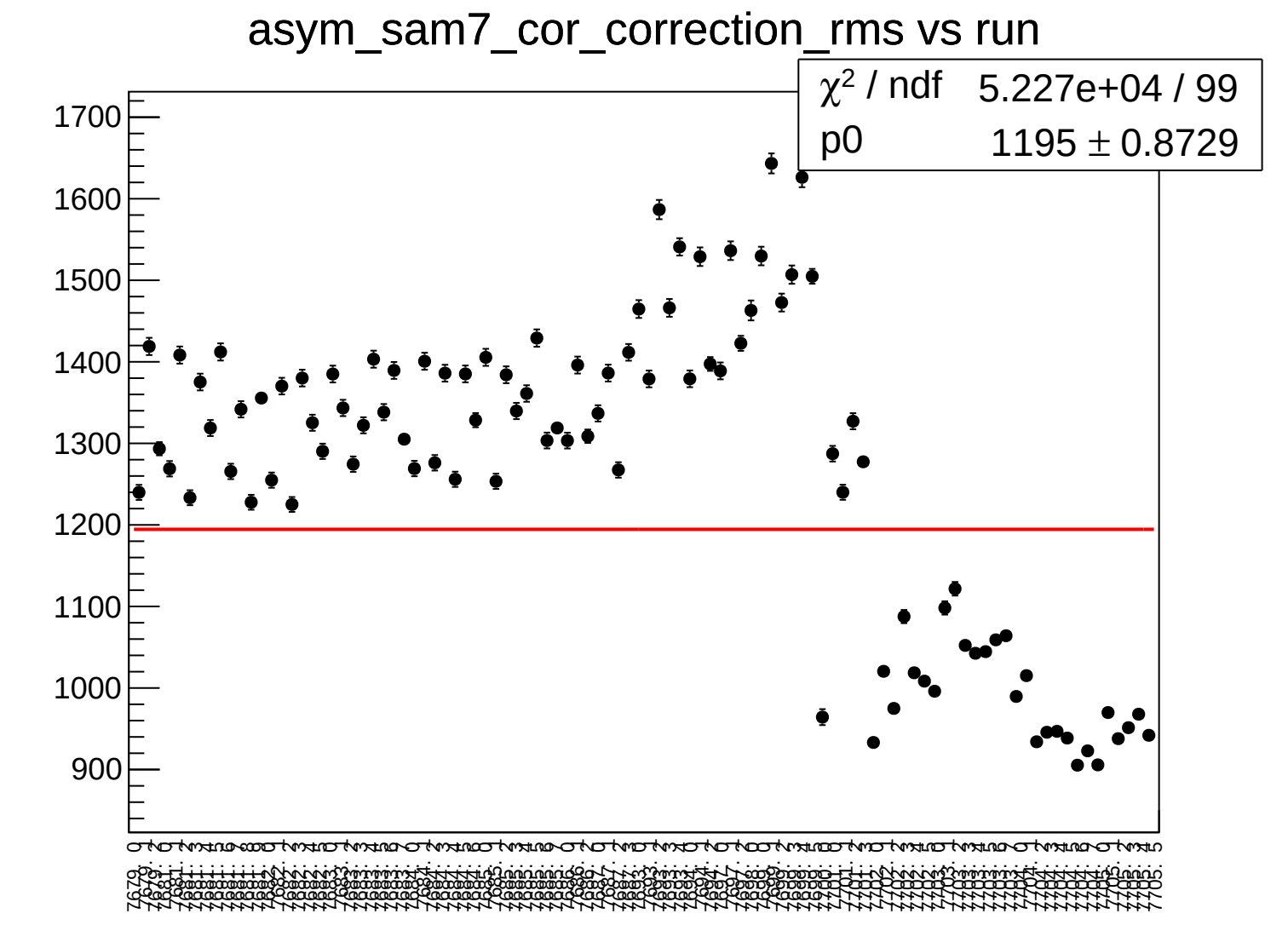

asym_sam7_reg_correction_rms vs run
χ^2 / ndf 5.227e+04 / 99
p0 1195 ± 0.8729
1700
1600
1500
1400
1300
1200
1100
1000
900

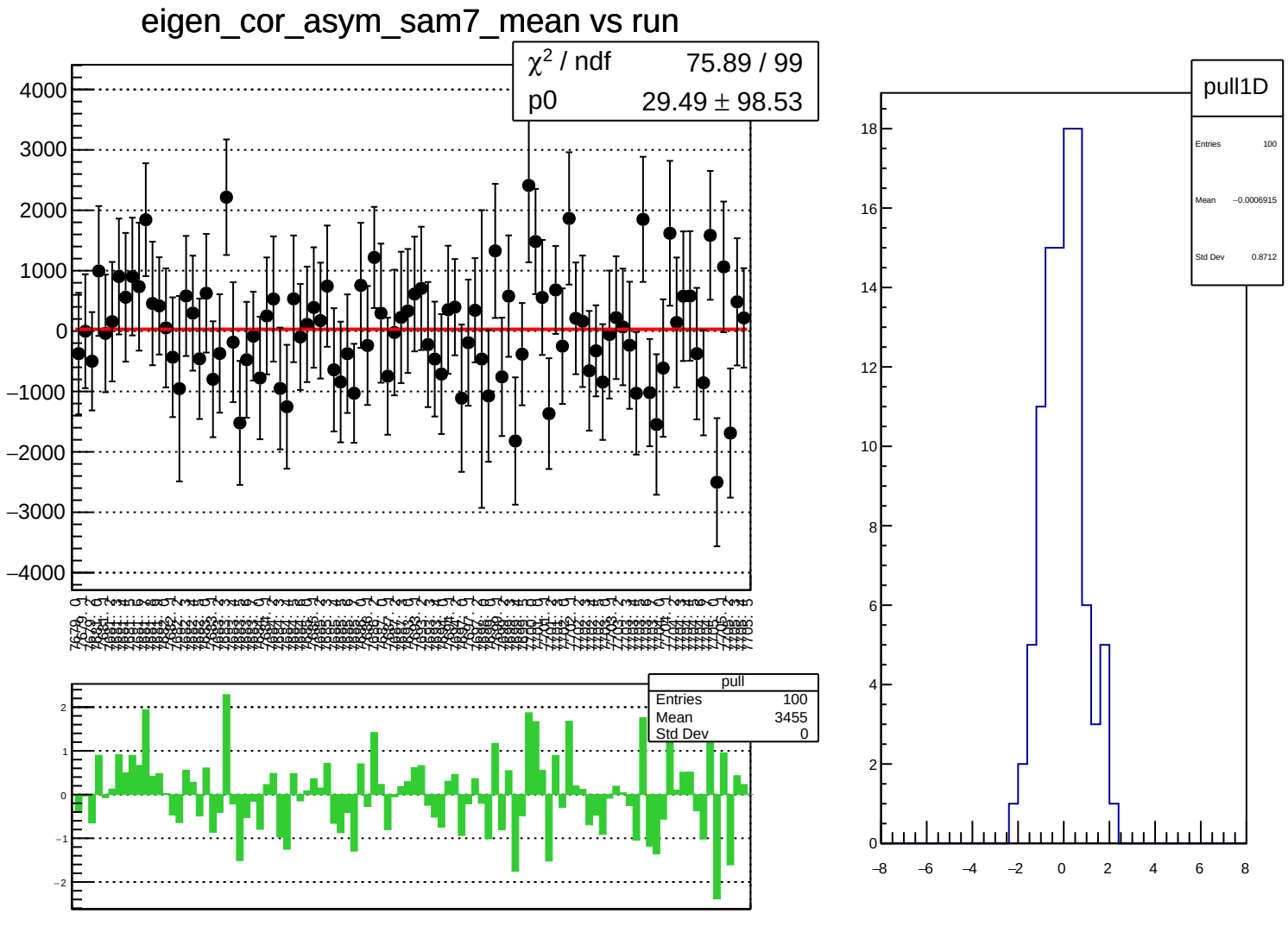

cor_asym_sam7_mean vs run
χ² / ndf 75.89 / 99
p0 29.49 ± 98.53
pull
Entries 100
Mean 3455
Std Dev 0

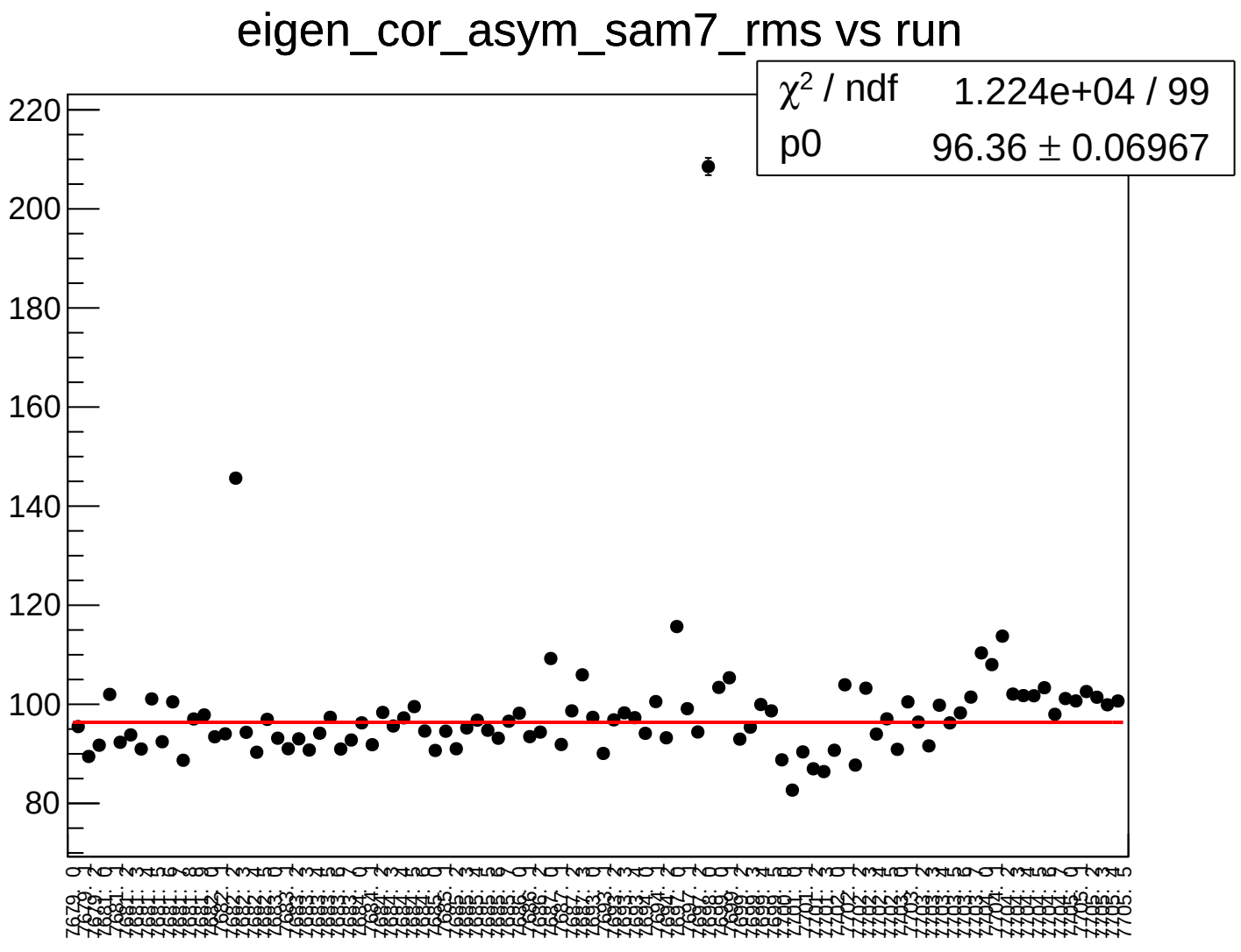

pull1D
Entries 100
Mean −0.0006915
Std Dev 0.8712

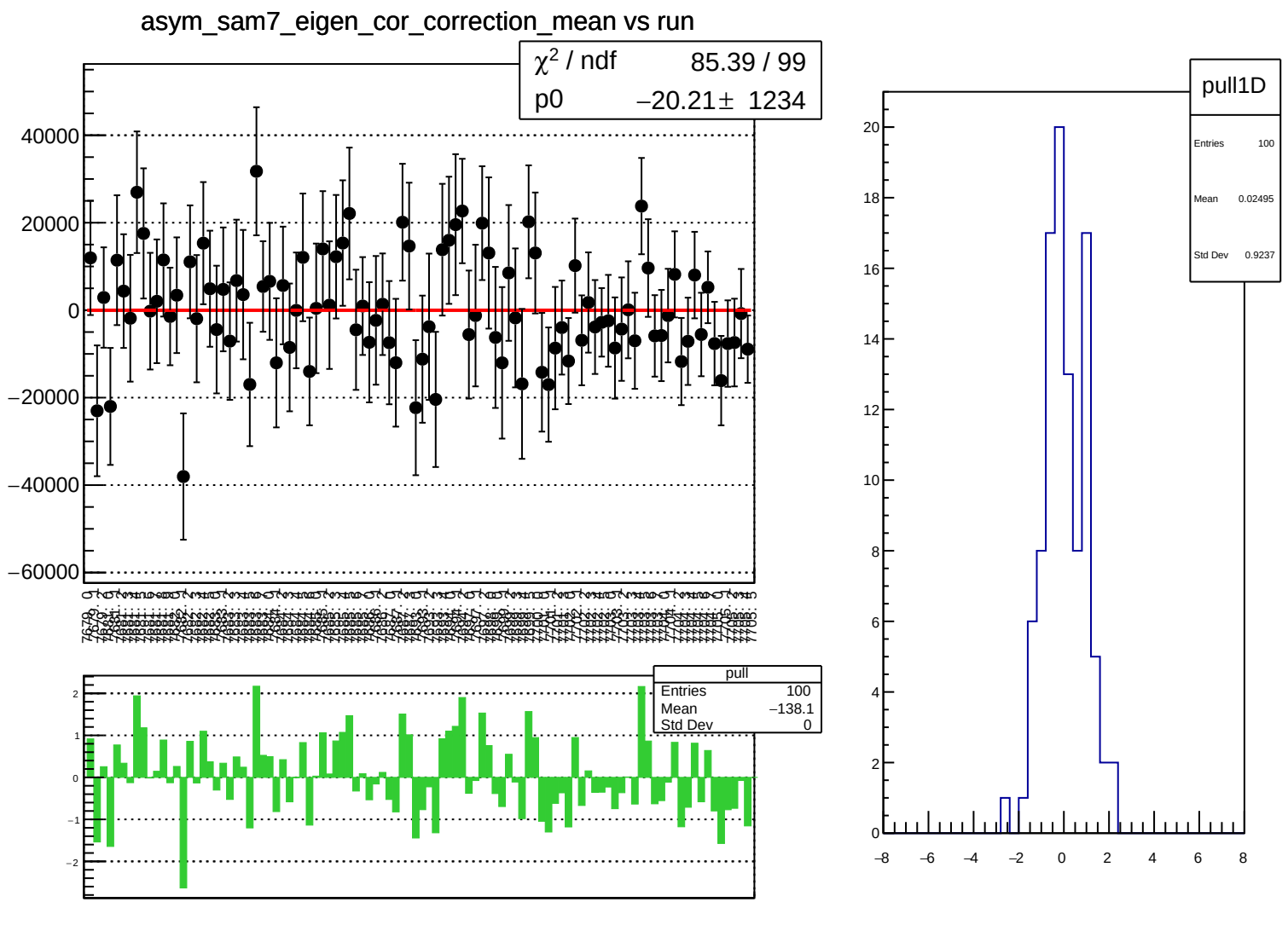

cor_asym_sam7_rms vs run
χ² / ndf 1.224e+04 / 99
p0 96.36 ± 0.06967
220
200
180
160
140
120
100
80

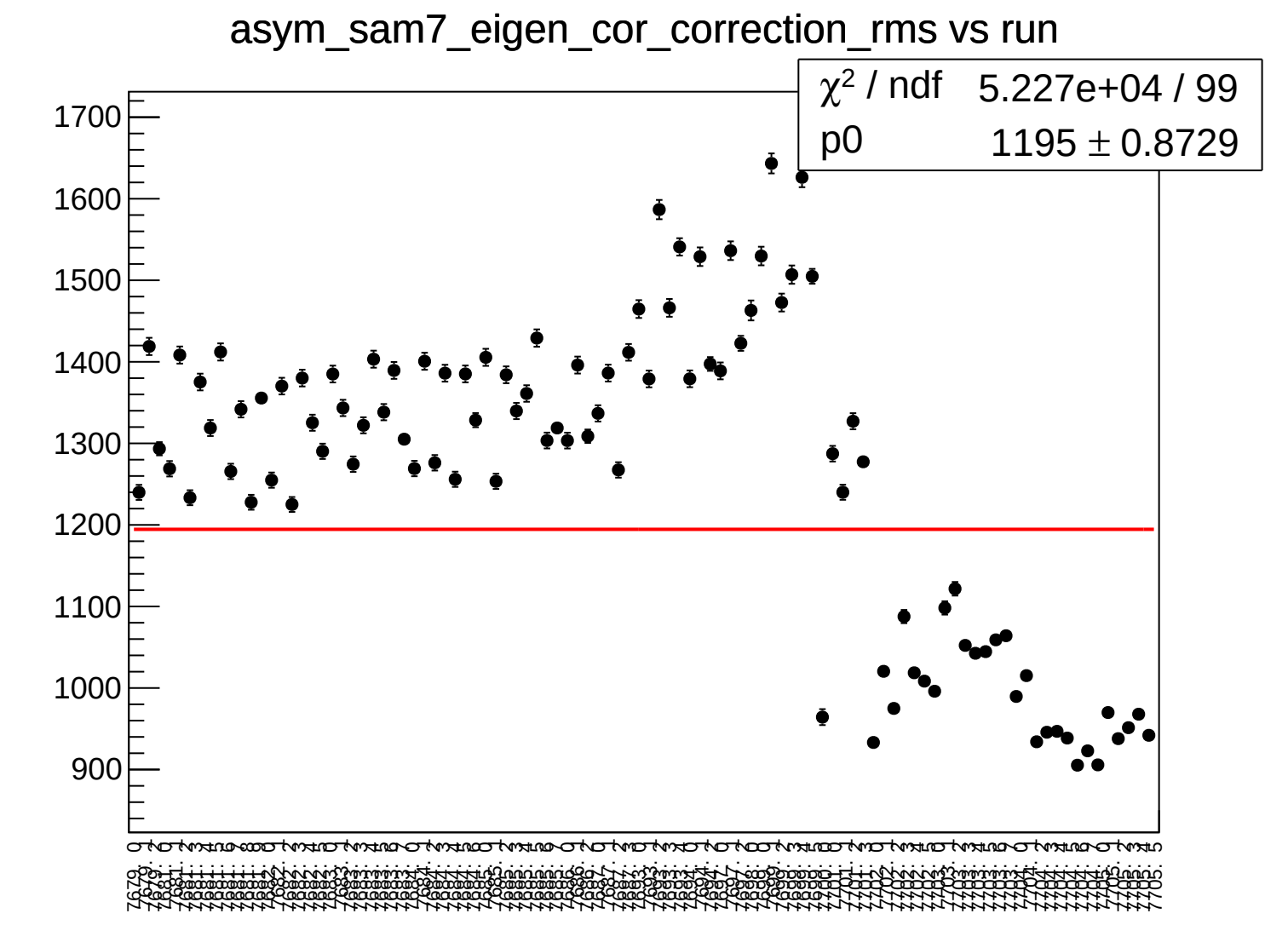

asym_sam7_cor_correction_mean vs run
χ² / ndf 85.39 / 99
p0 −20.21± 1234
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −138.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.02495
Std Dev 0.9237
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

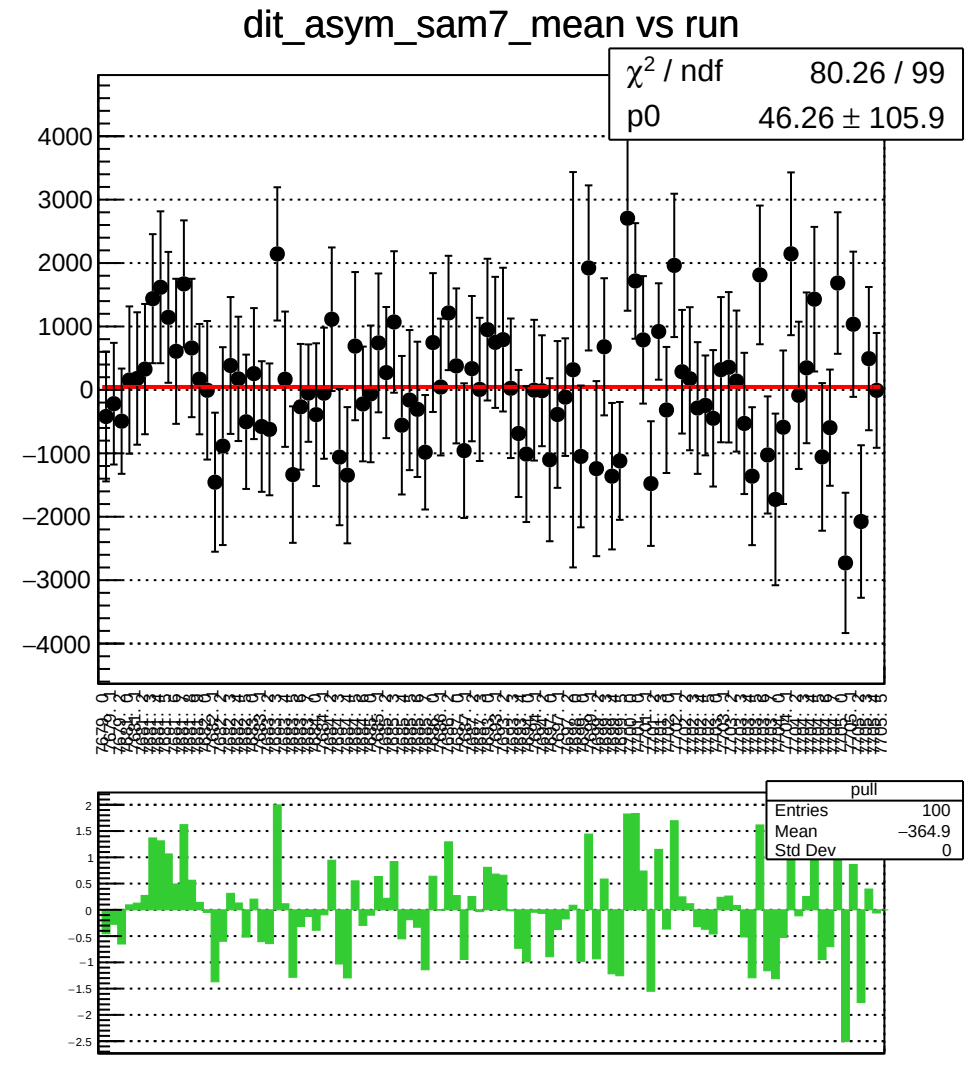

asym_sam7_cor_correction_rms vs run
χ^2 / ndf 5.227e+04 / 99
p0 1195 ± 0.8729
1700
1600
1500
1400
1300
1200
1100
1000
900

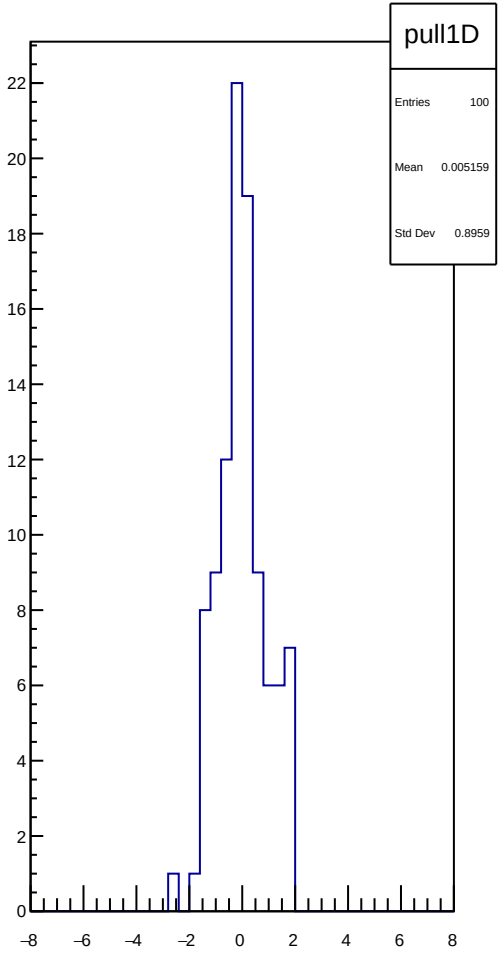

eigen_cor_asym_sam7_mean vs run
χ² / ndf 75.89 / 99
p0 29.49 ± 98.53
pull
Entries 100
Mean 3455
Std Dev 0
pull1D
Entries 100
Mean −0.0006915
Std Dev 0.8712

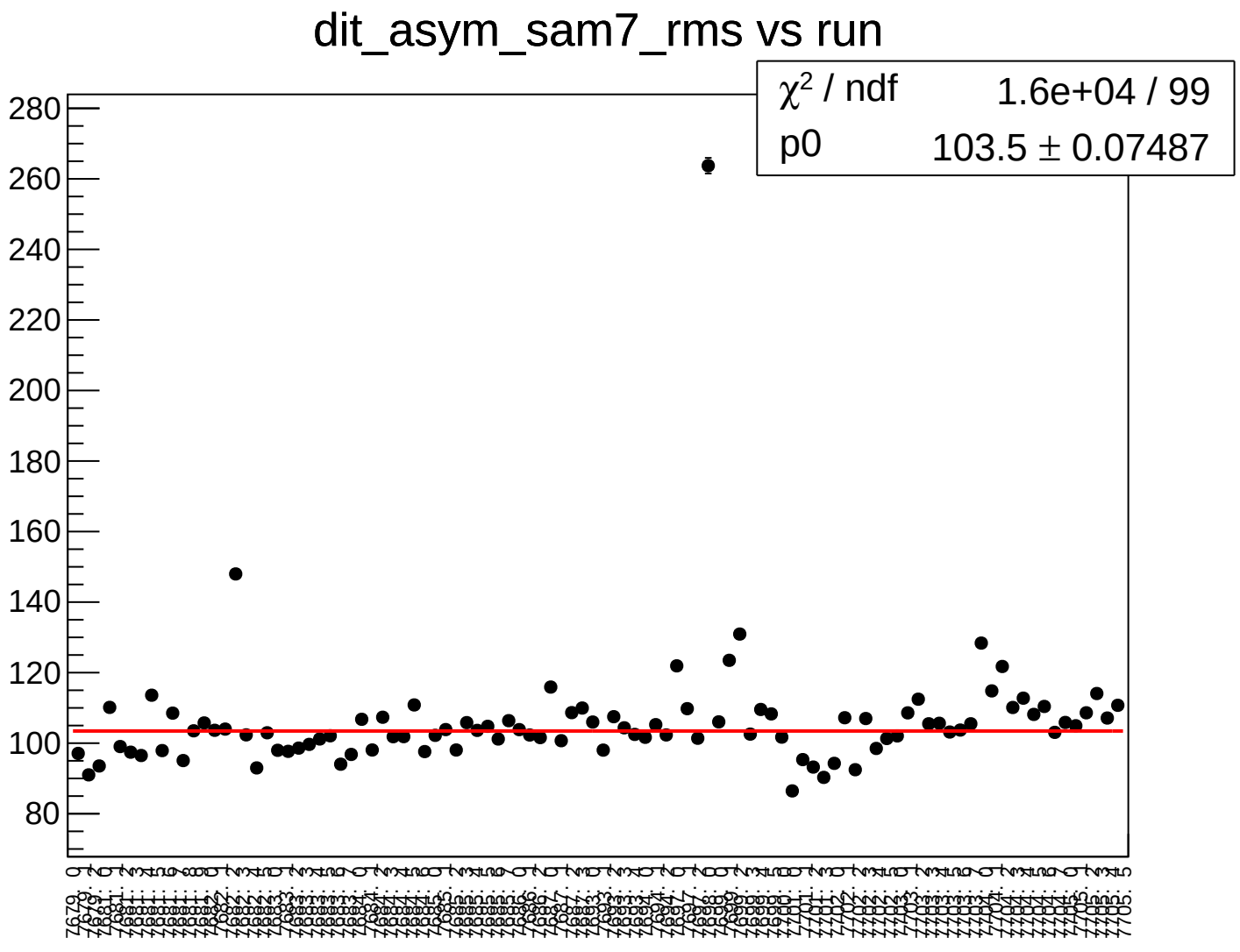

eigen_cor_asym_sam7_rms vs run
χ^2 / ndf 1.224e+04 / 99
p0 96.36 ± 0.06967
220
200
180
160
140
120
100
80

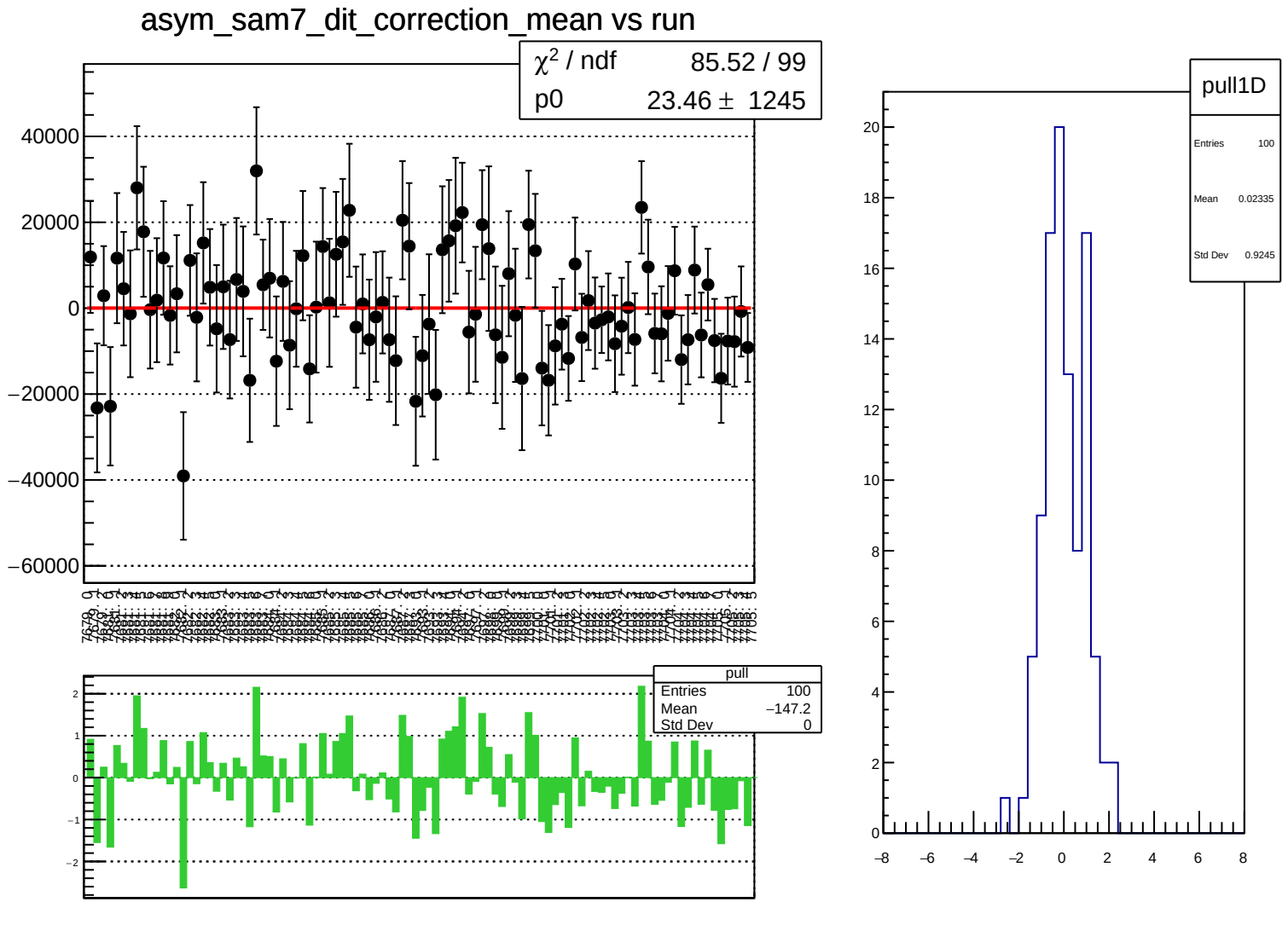

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 85.39 / 99
p0 −20.21± 1234
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −138.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.02495
Std Dev 0.9237
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

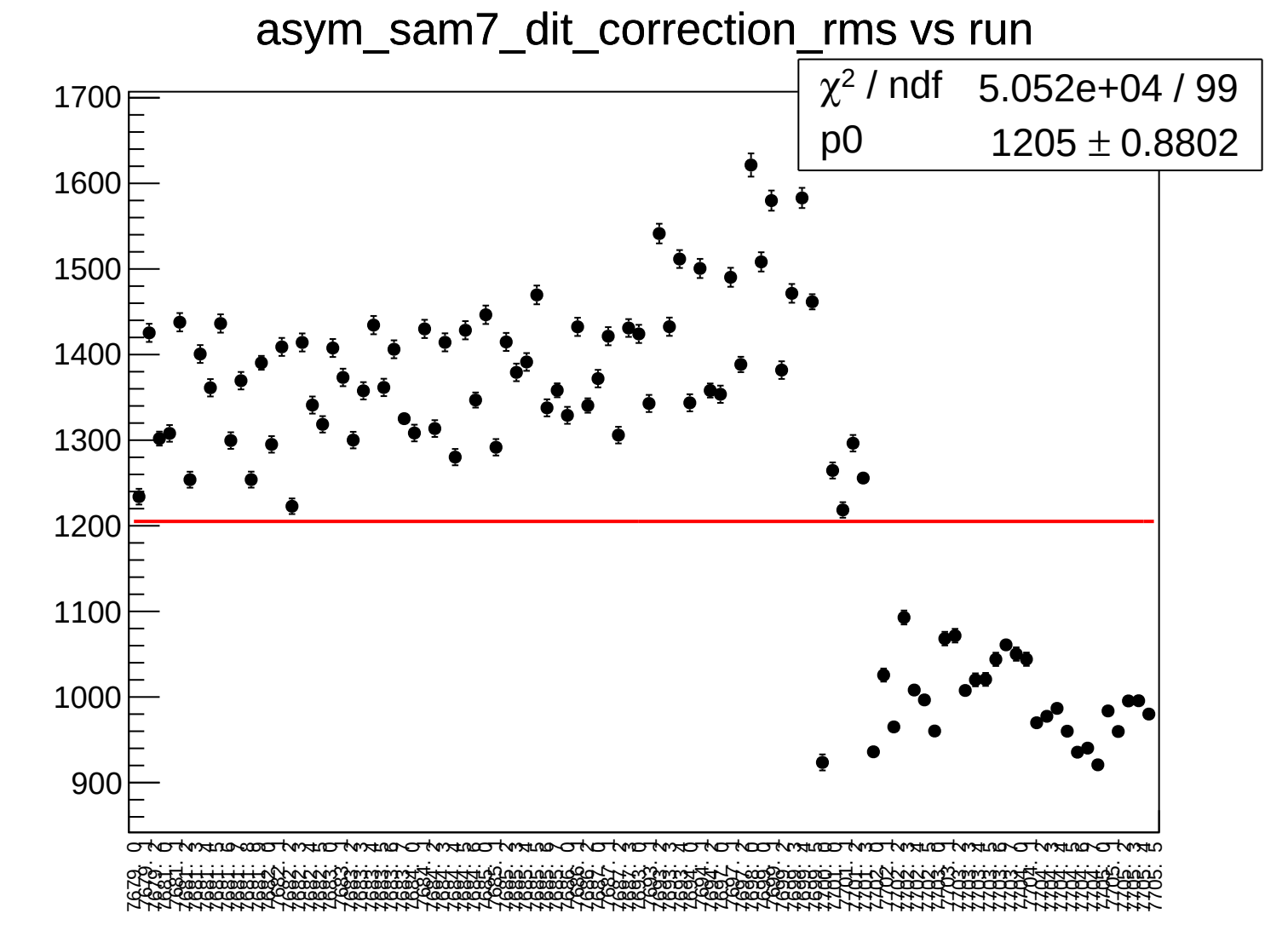

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 5.227e+04 / 99
p0 1195 ± 0.8729
1700
1600
1500
1400
1300
1200
1100
1000
900

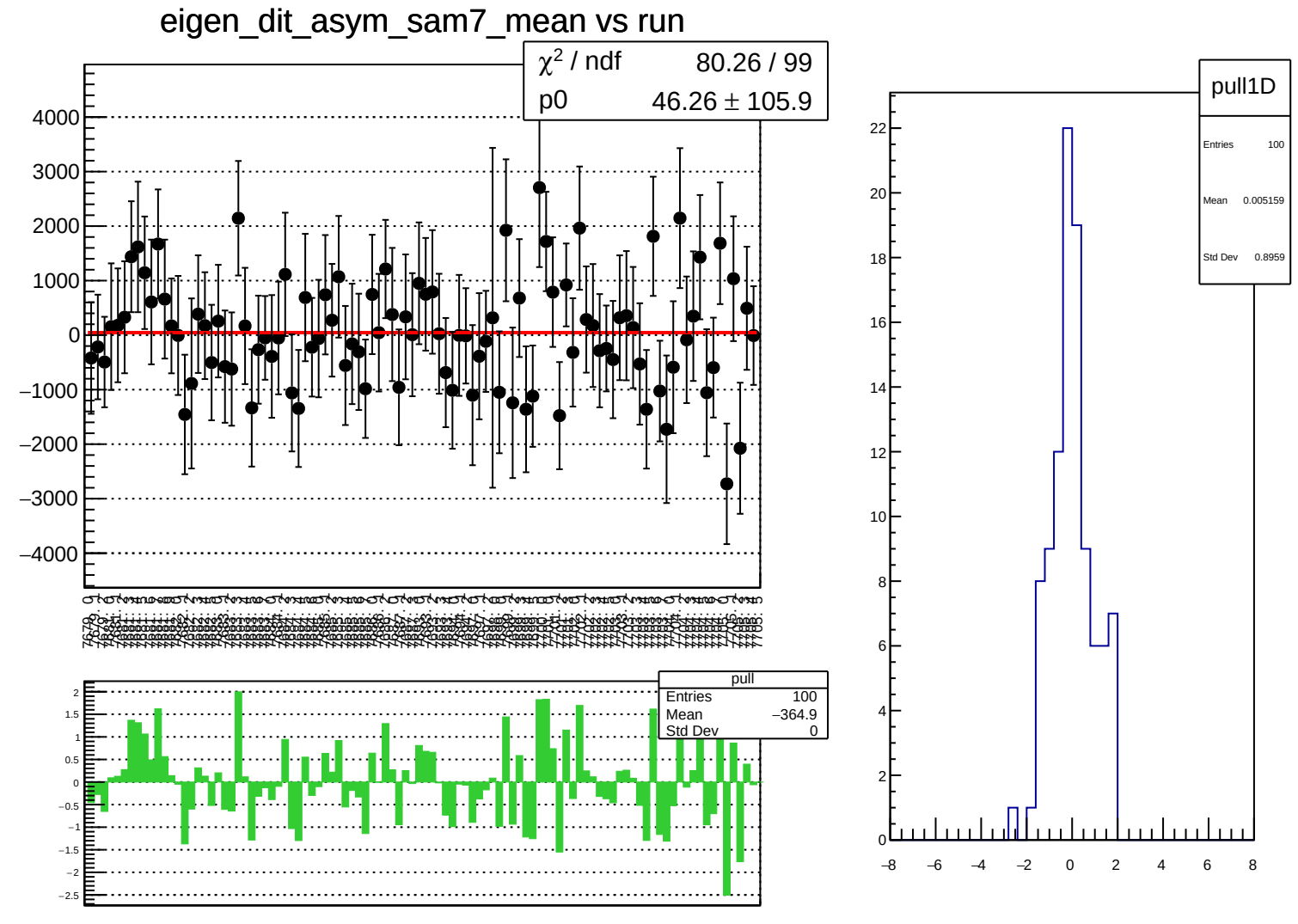

dit_asym_sam7_mean vs run
χ² / ndf 80.26 / 99
p0 46.26 ± 105.9
pull
Entries 100
Mean −364.9
Std Dev 0

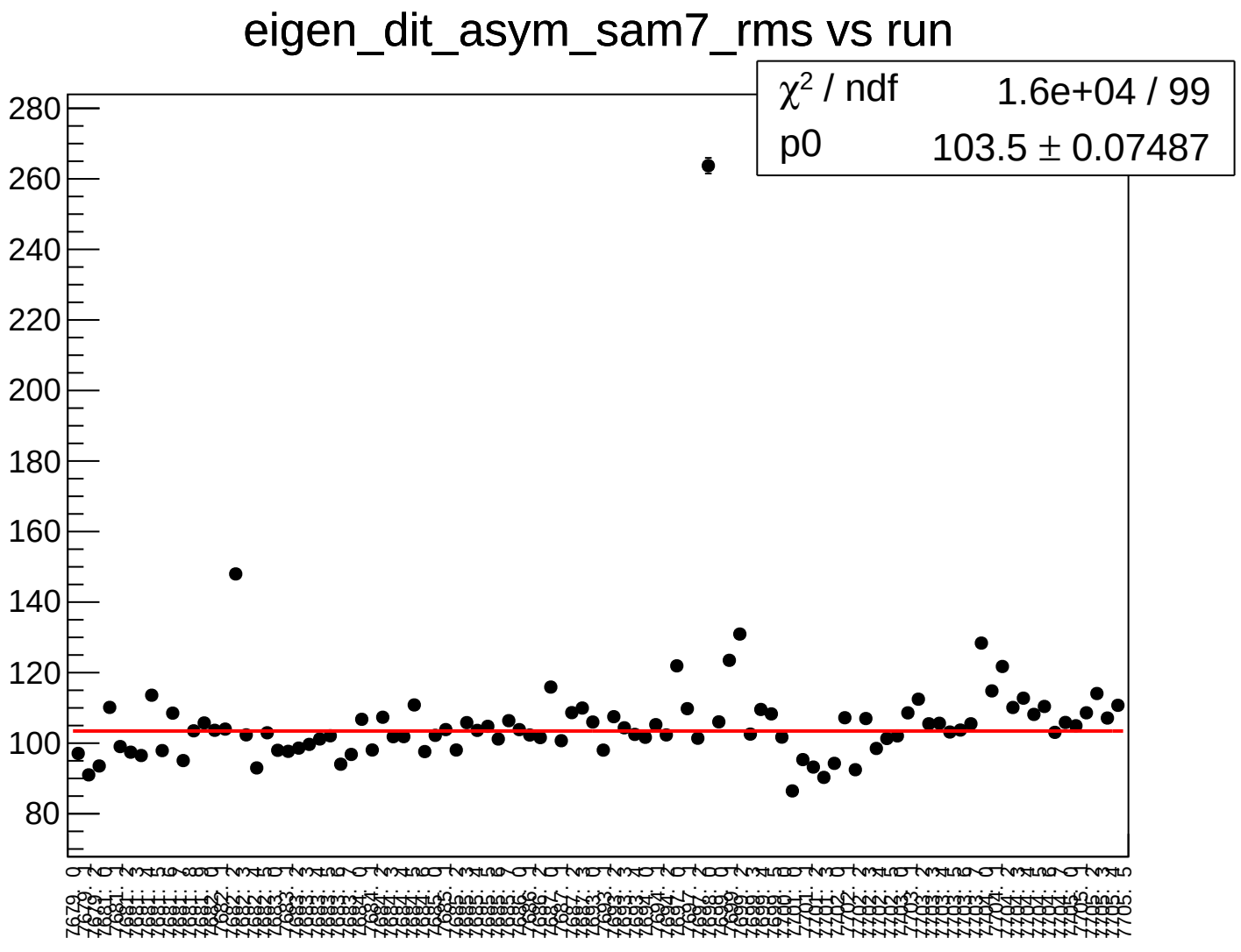

pull1D
Entries 100
Mean 0.005159
Std Dev 0.8959

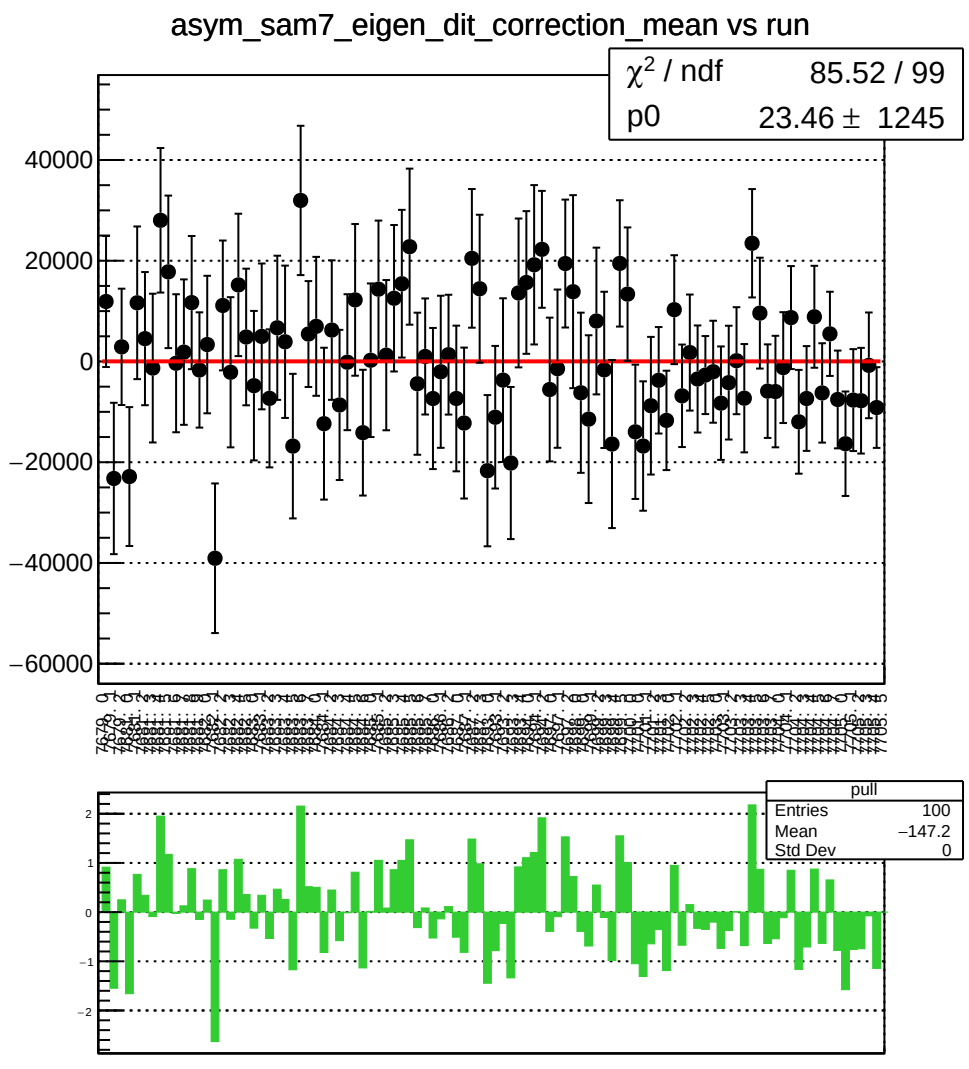

dit_asym_sam7_rms vs run
χ² / ndf 1.6e+04 / 99
p0 103.5 ± 0.07487
280
260
240
220
200
180
160
140
120
100
80

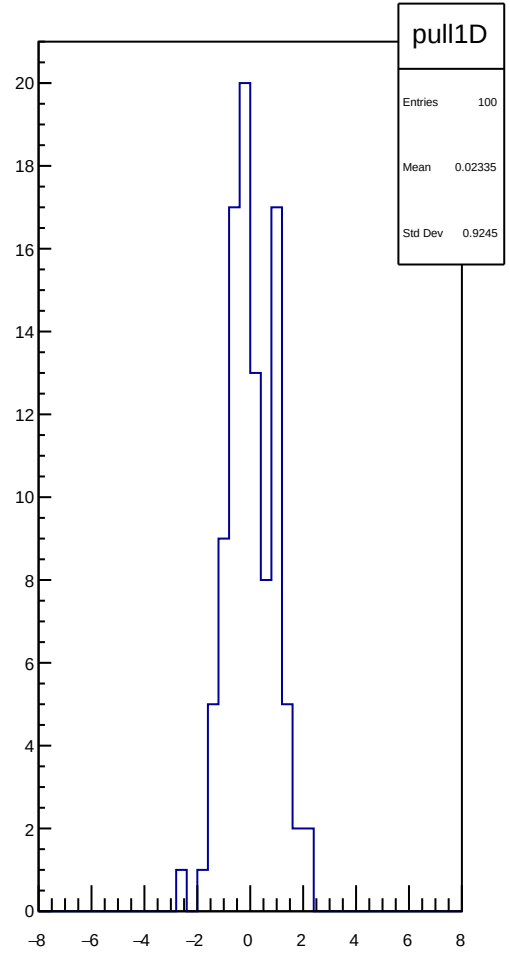

asym_sam7_dit_correction_mean vs run
χ² / ndf 85.52 / 99
p0 23.46 ± 1245
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −147.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.02335
Std Dev 0.9245
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

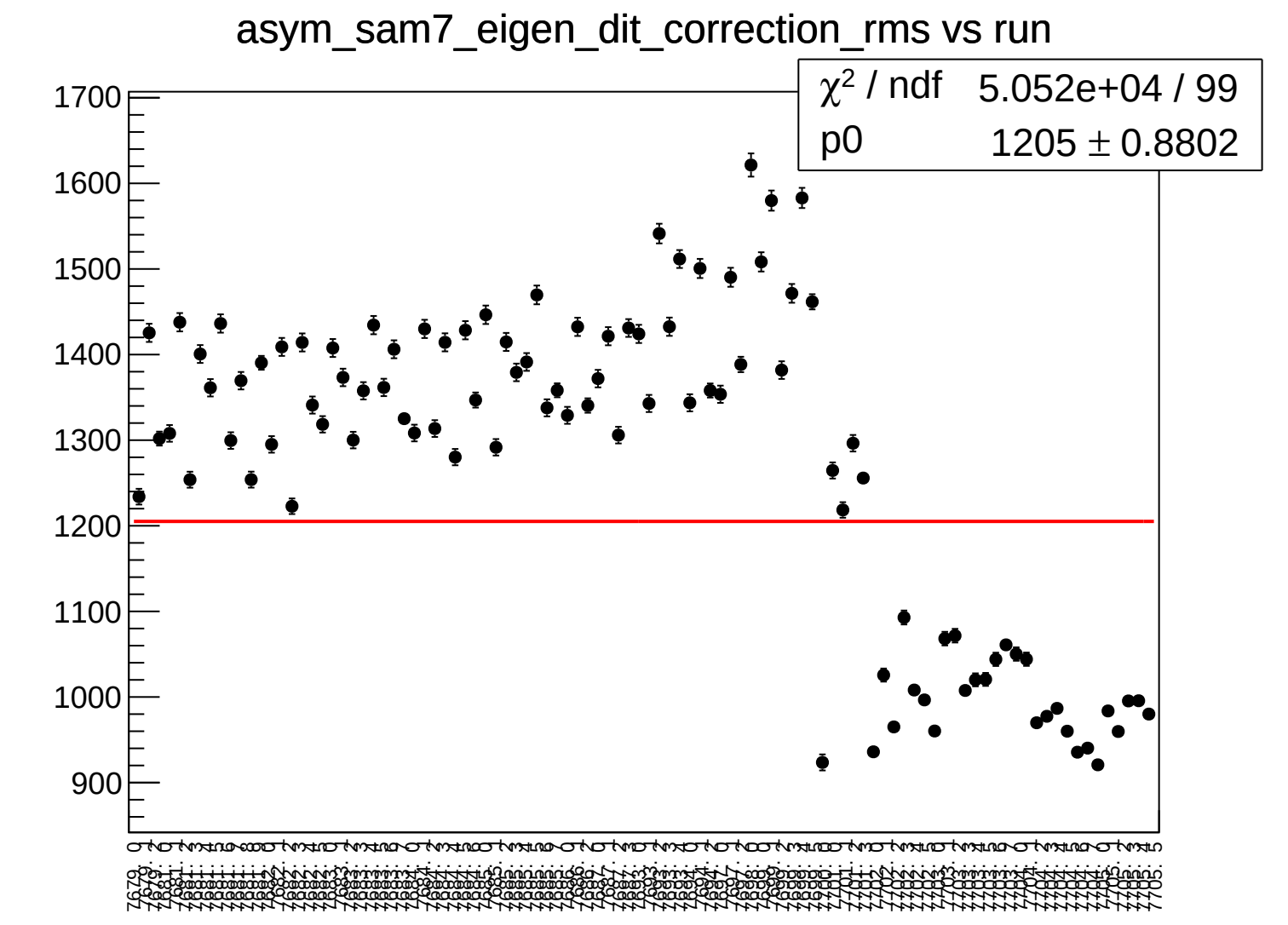

asym_sam7_dit_correction_rms vs run
χ² / ndf 5.052e+04 / 99
p0 1205 ± 0.8802
1700
1600
1500
1400
1300
1200
1100
1000
900

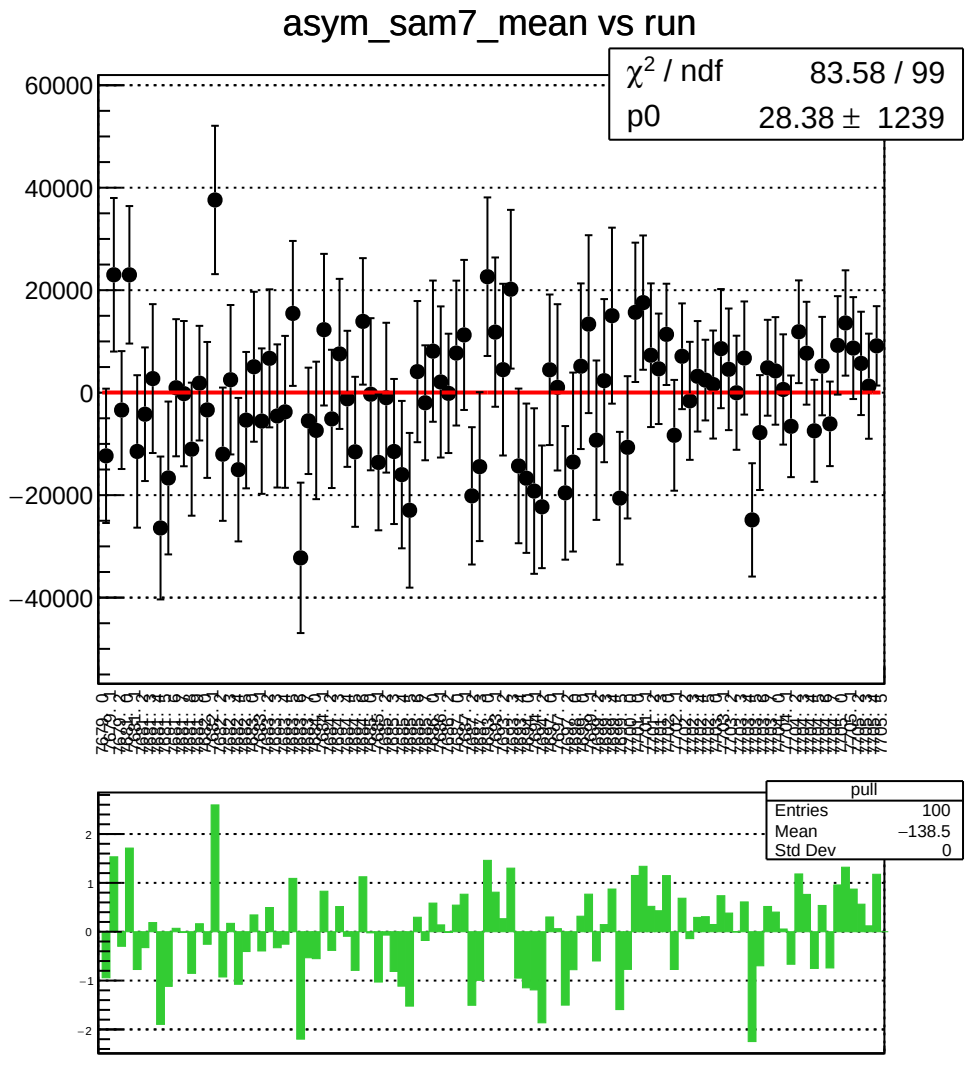

eigen_dit_asym_sam7_mean vs run
χ² / ndf 80.26 / 99
p0 46.26 ± 105.9
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 100
Mean −364.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 100
Mean 0.005159
Std Dev 0.8959
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

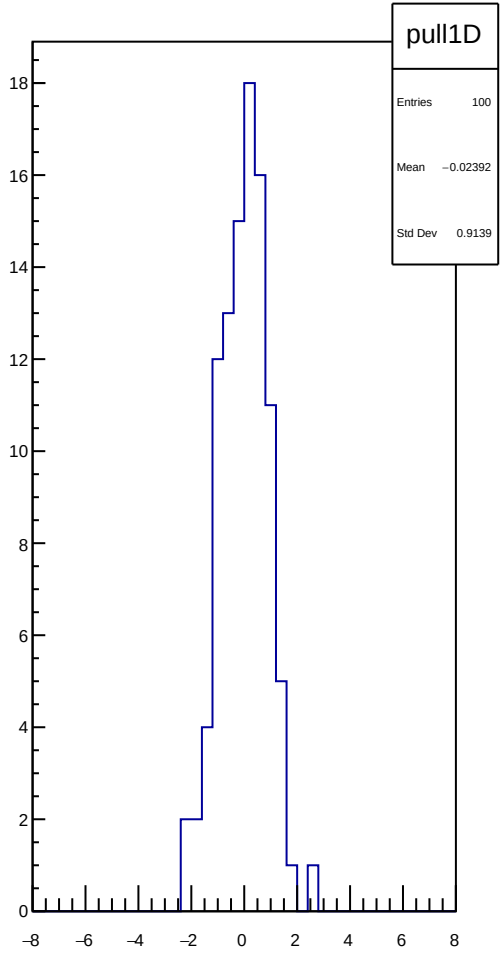

eigen_dit_asym_sam7_rms vs run
χ² / ndf 1.6e+04 / 99
p0 103.5 ± 0.07487
280
260
240
220
200
180
160
140
120
100
80

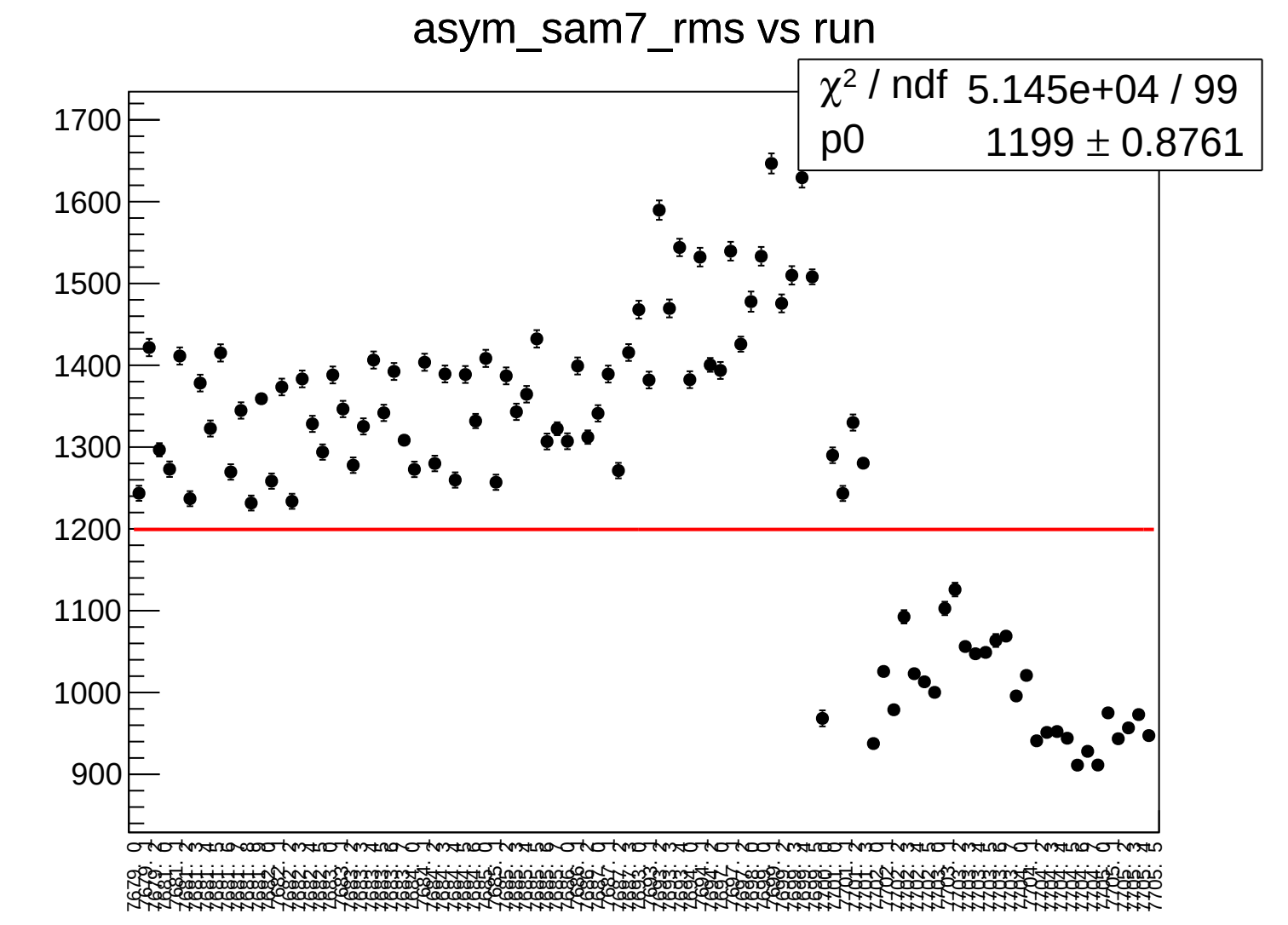

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 85.52 / 99
p0 23.46 ± 1245
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −147.2
Std Dev 0
2
1
0
−1
−2

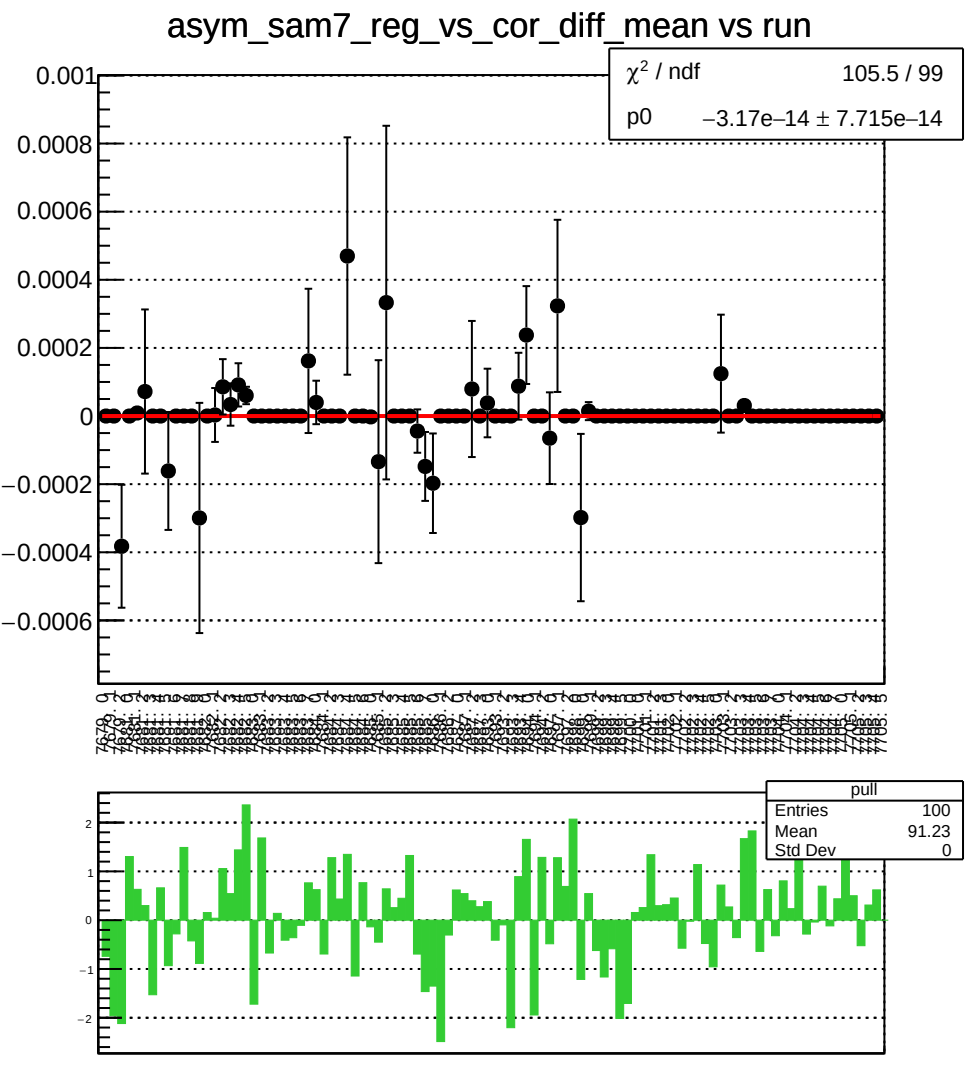

pull1D
Entries 100
Mean 0.02335
Std Dev 0.9245
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

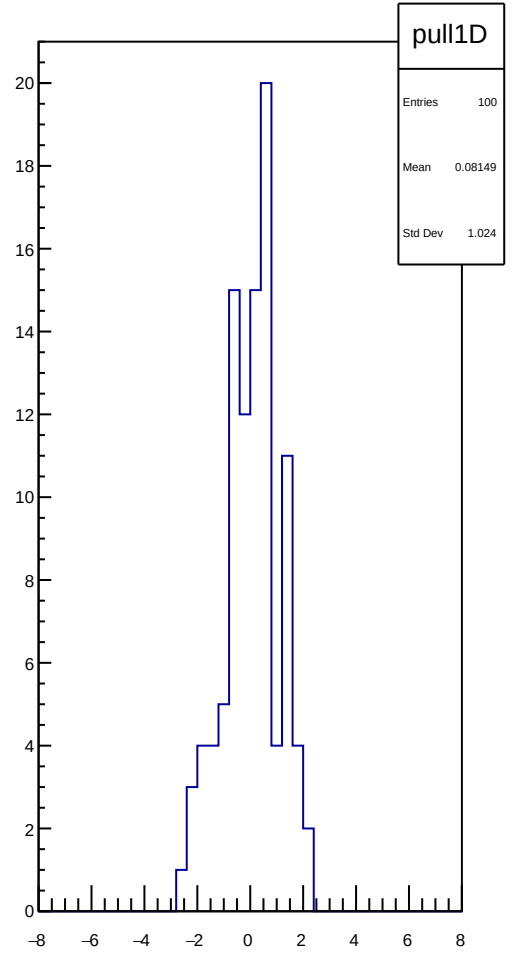

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 5.052e+04 / 99
p0 1205 ± 0.8802
1700
1600
1500
1400
1300
1200
1100
1000
900

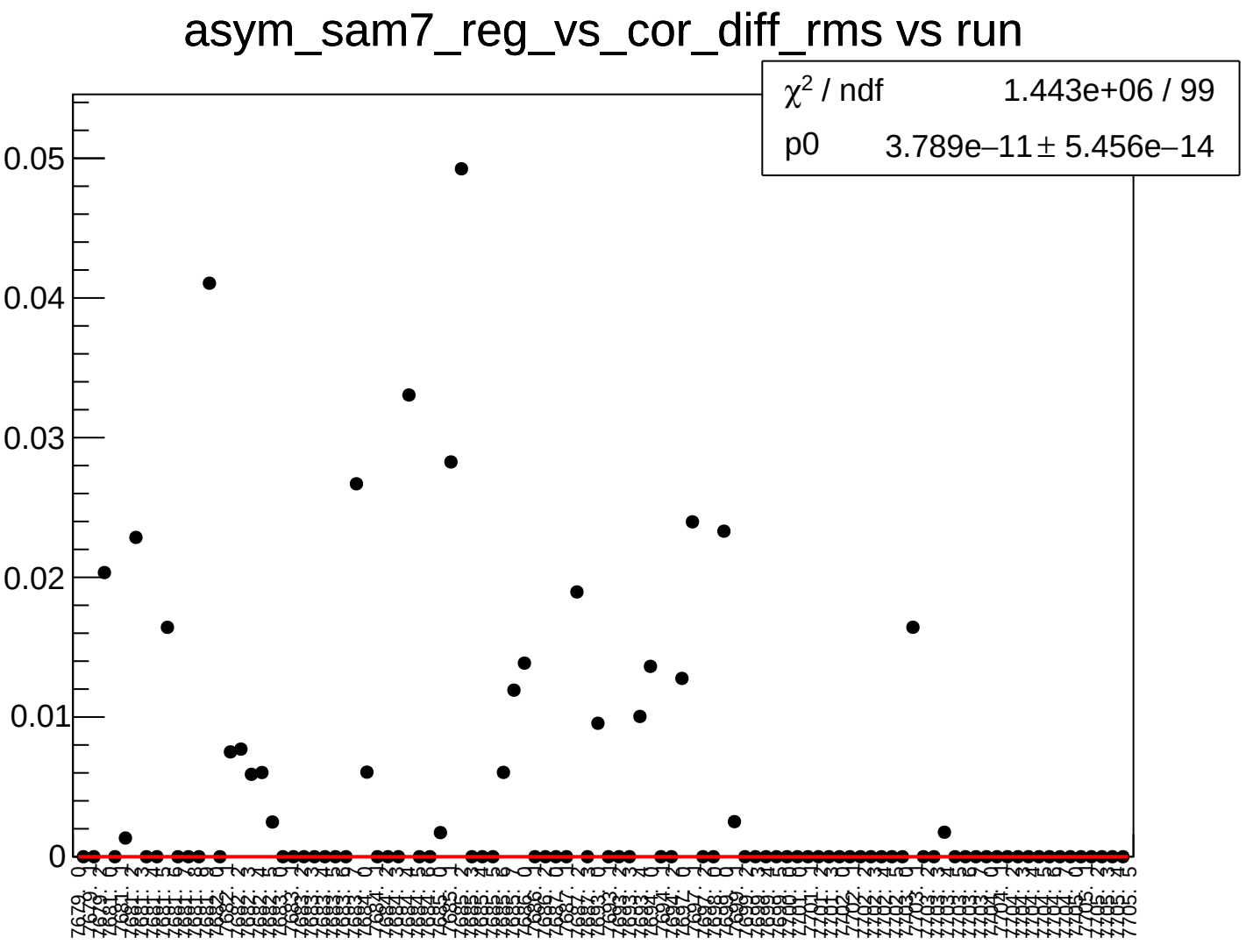

asym_sam7_mean vs run
χ² / ndf 83.58 / 99
p0 28.38 ± 1239
60000
40000
20000
0
−20000
−40000
pull
Entries 100
Mean −138.5
Std Dev 0
2
1
0
−1
−2

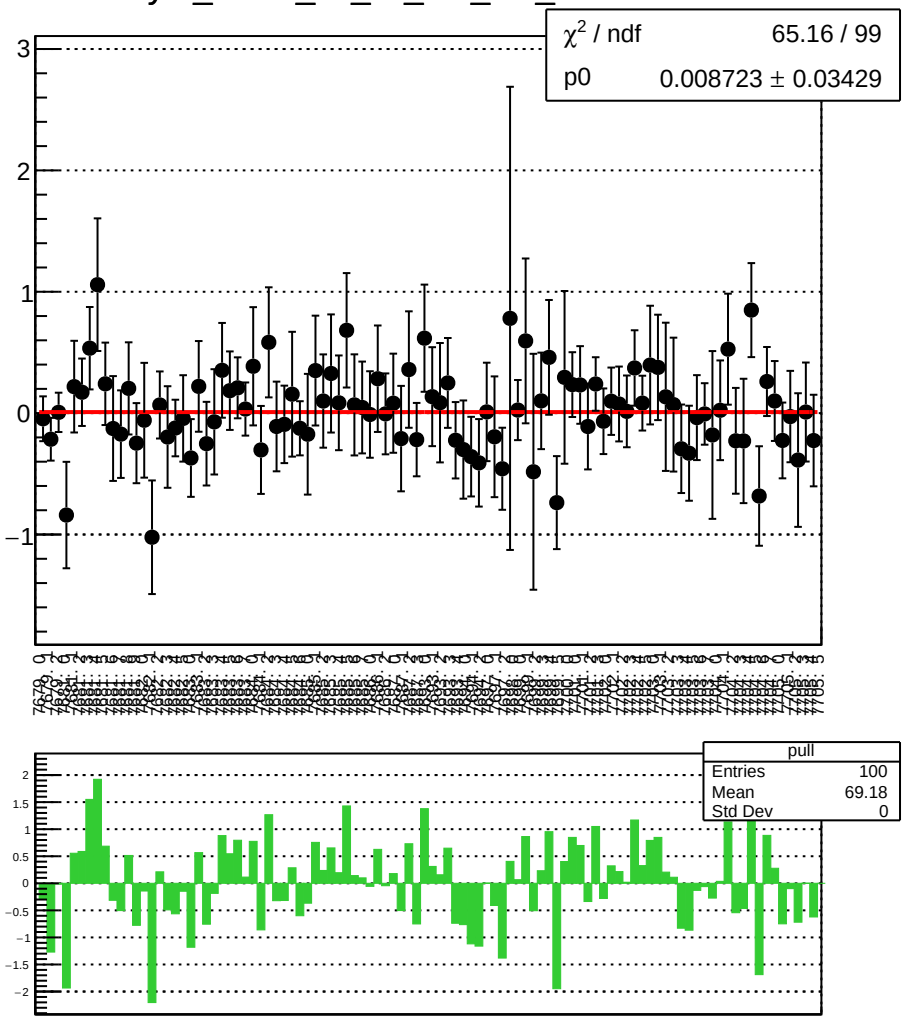

pull1D
Entries 100
Mean −0.02392
Std Dev 0.9139
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

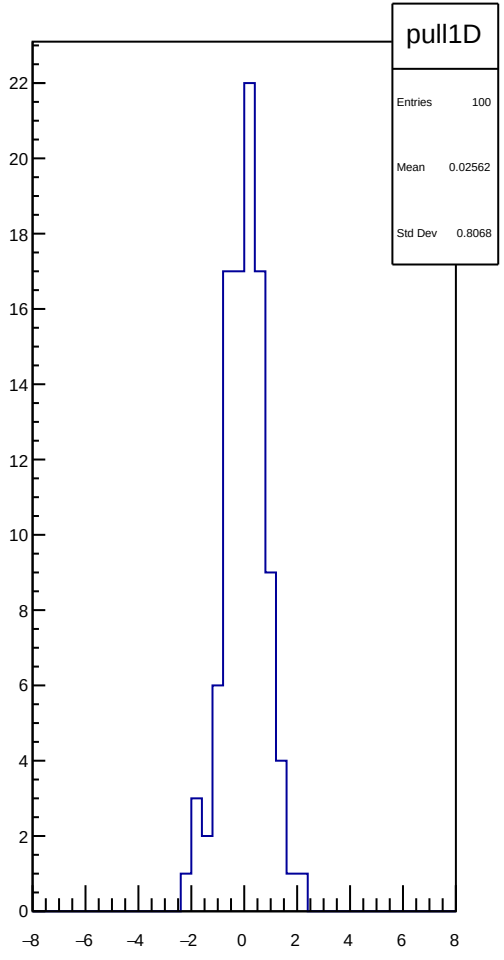

asym_sam7_rms vs run
χ² / ndf 5.145e+04 / 99
p0 1199 ± 0.8761
1700
1600
1500
1400
1300
1200
1100
1000
900

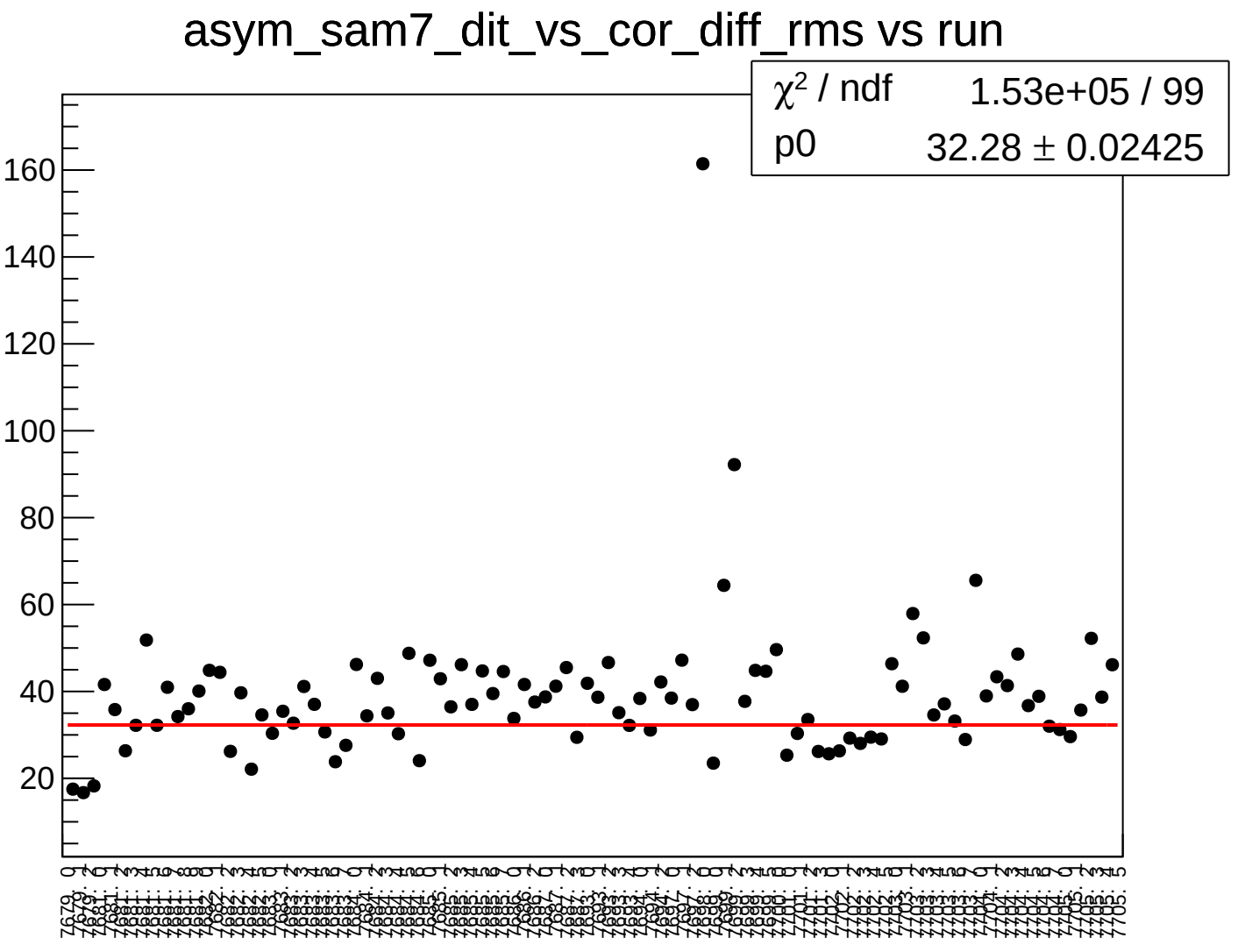

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 105.5 / 99
p0 −3.17e−14 ± 7.715e−14
pull
Entries 100
Mean 91.23
Std Dev 0

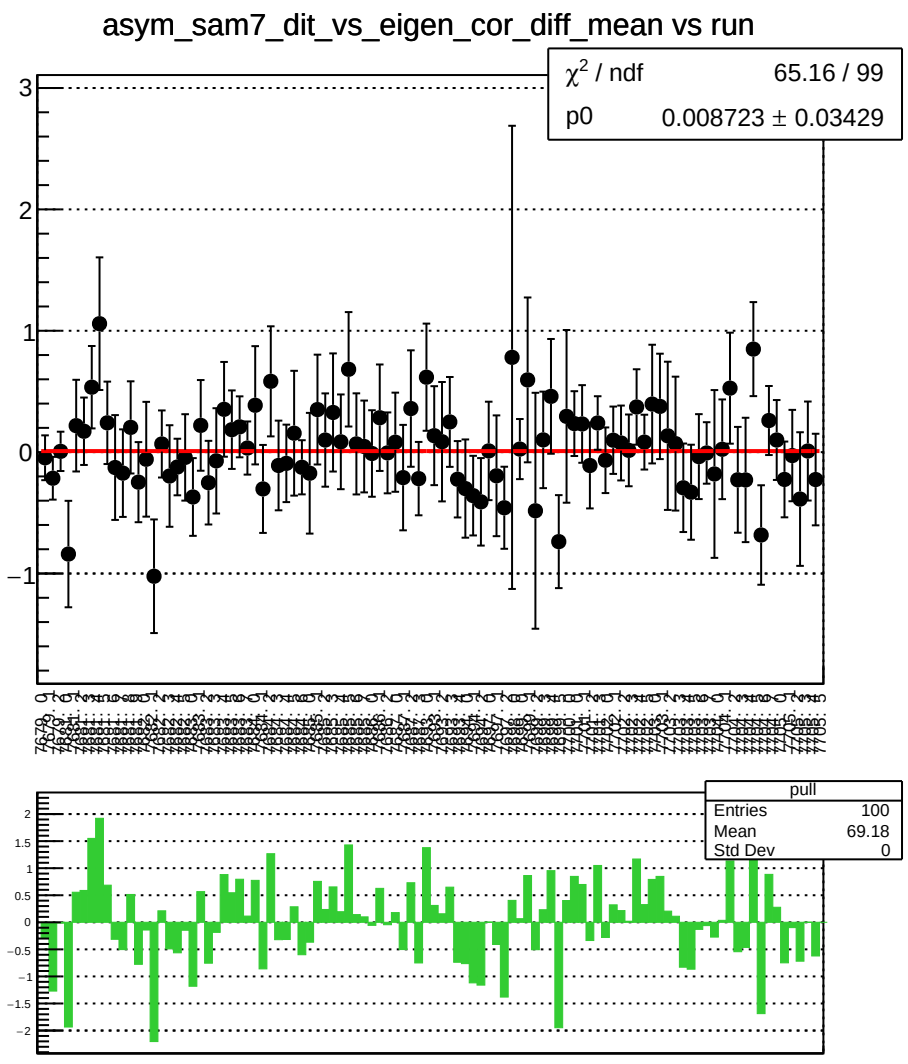

pull1D
Entries 100
Mean 0.08149
Std Dev 1.024

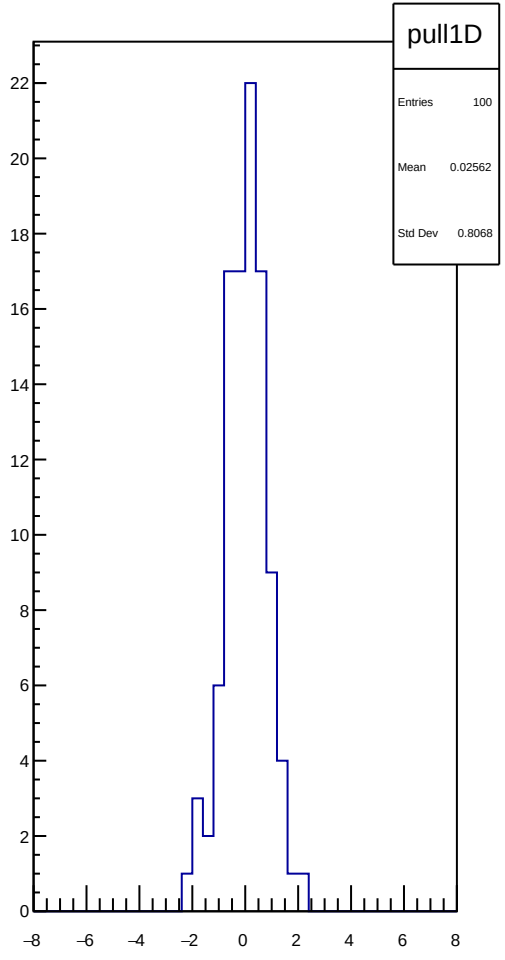

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 1.443e+06 / 99
p0 3.789e−11 ± 5.456e−14
0.05
0.04
0.03
0.02
0.01
0

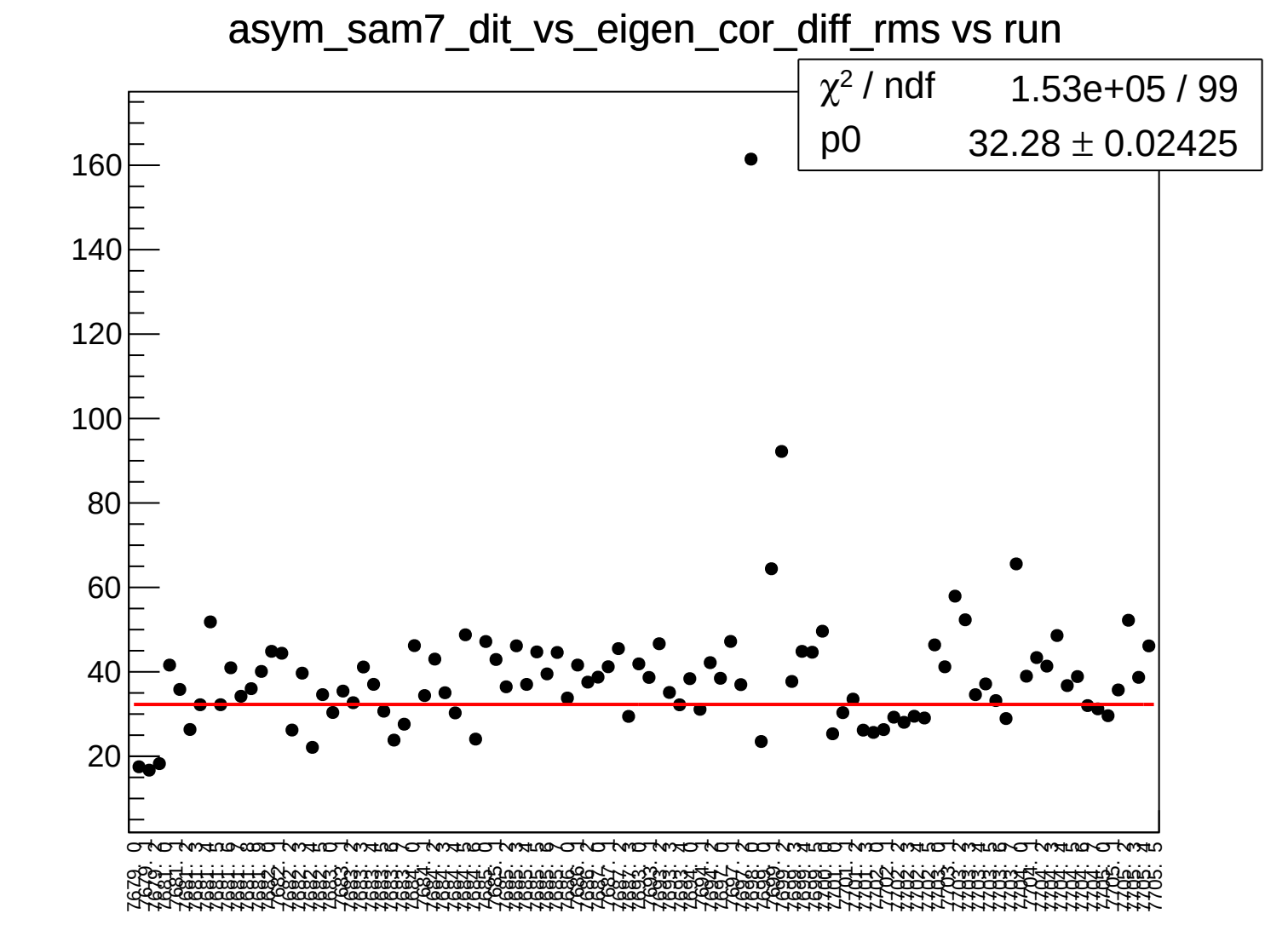

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 65.16 / 99
p0 0.008723 ± 0.03429
pull
Entries 100
Mean 69.18
Std Dev 0

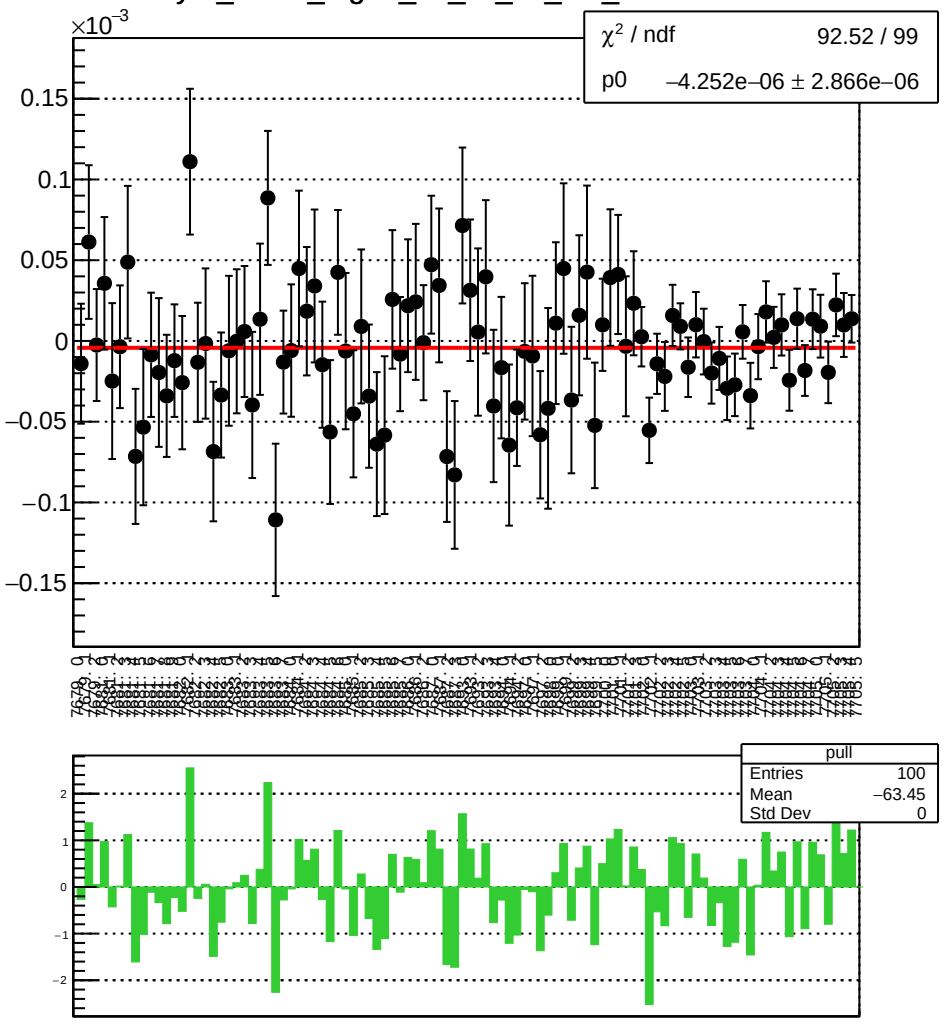

pull1D
Entries 100
Mean 0.02562
Std Dev 0.8068

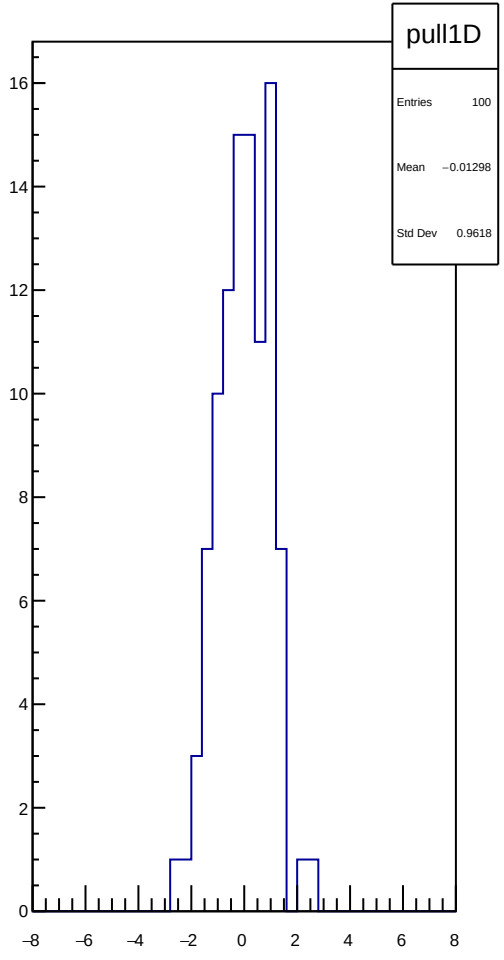

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 1.53e+05 / 99
p0 32.28 ± 0.02425
160
140
120
100
80
60
40
20

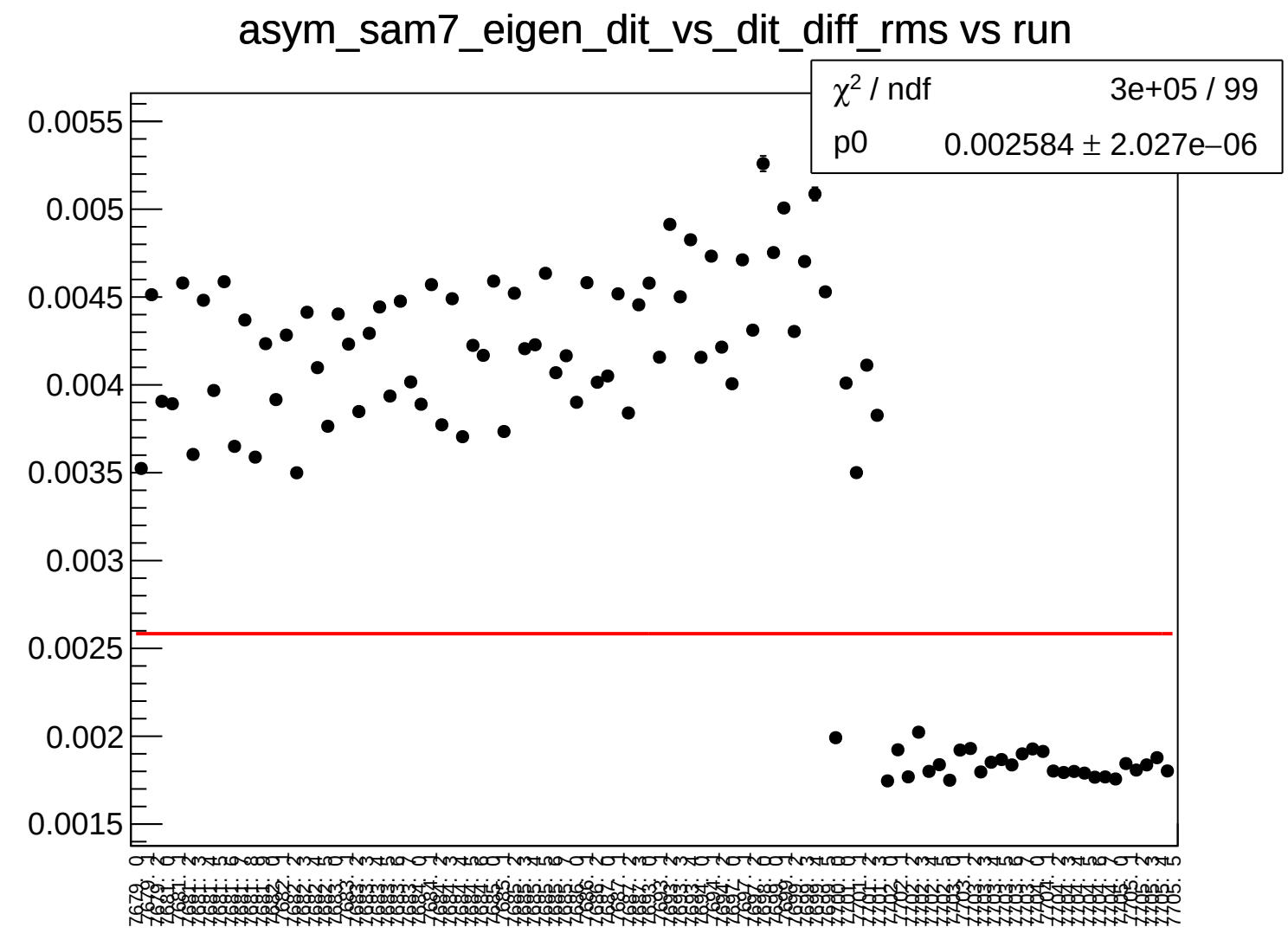

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.16 / 99
p0 0.008723 ± 0.03429
pull
Entries 100
Mean 69.18
Std Dev 0

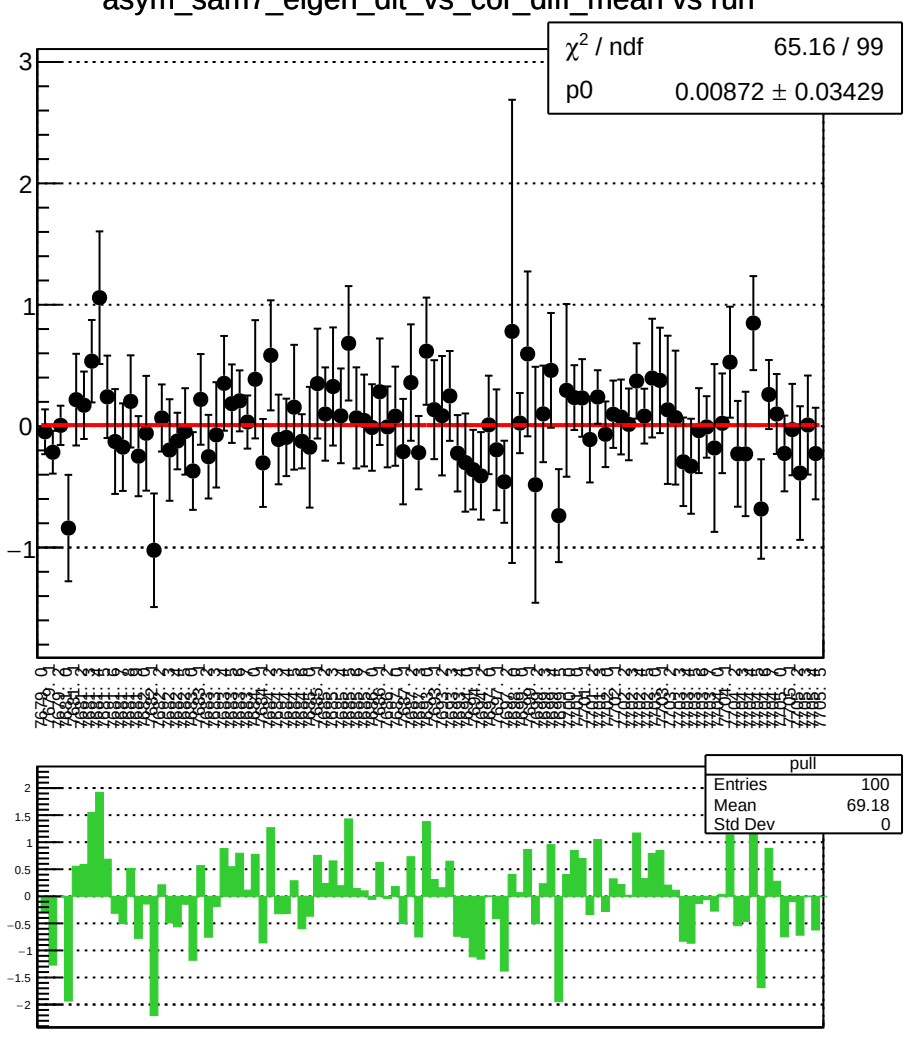

pull1D
Entries 100
Mean 0.02562
Std Dev 0.8068

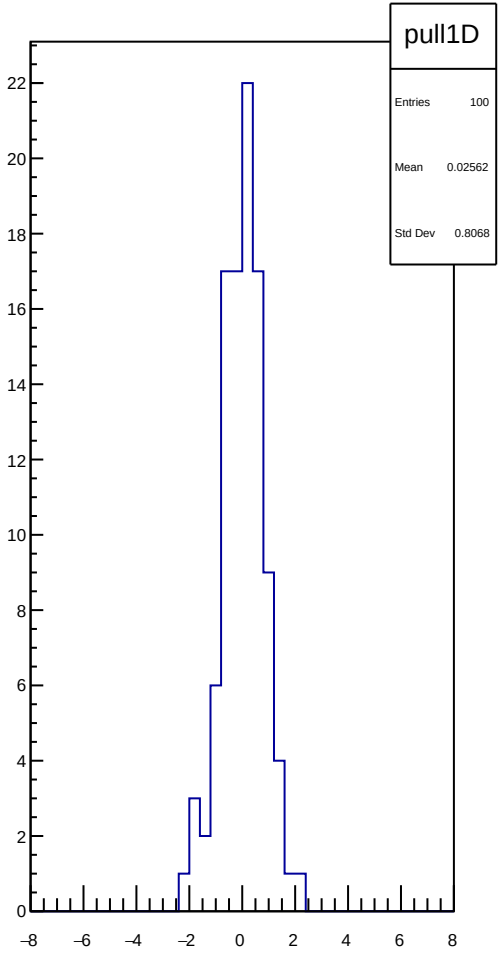

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.53e+05 / 99
p0 32.28 ± 0.02425
160
140
120
100
80
60
40
20

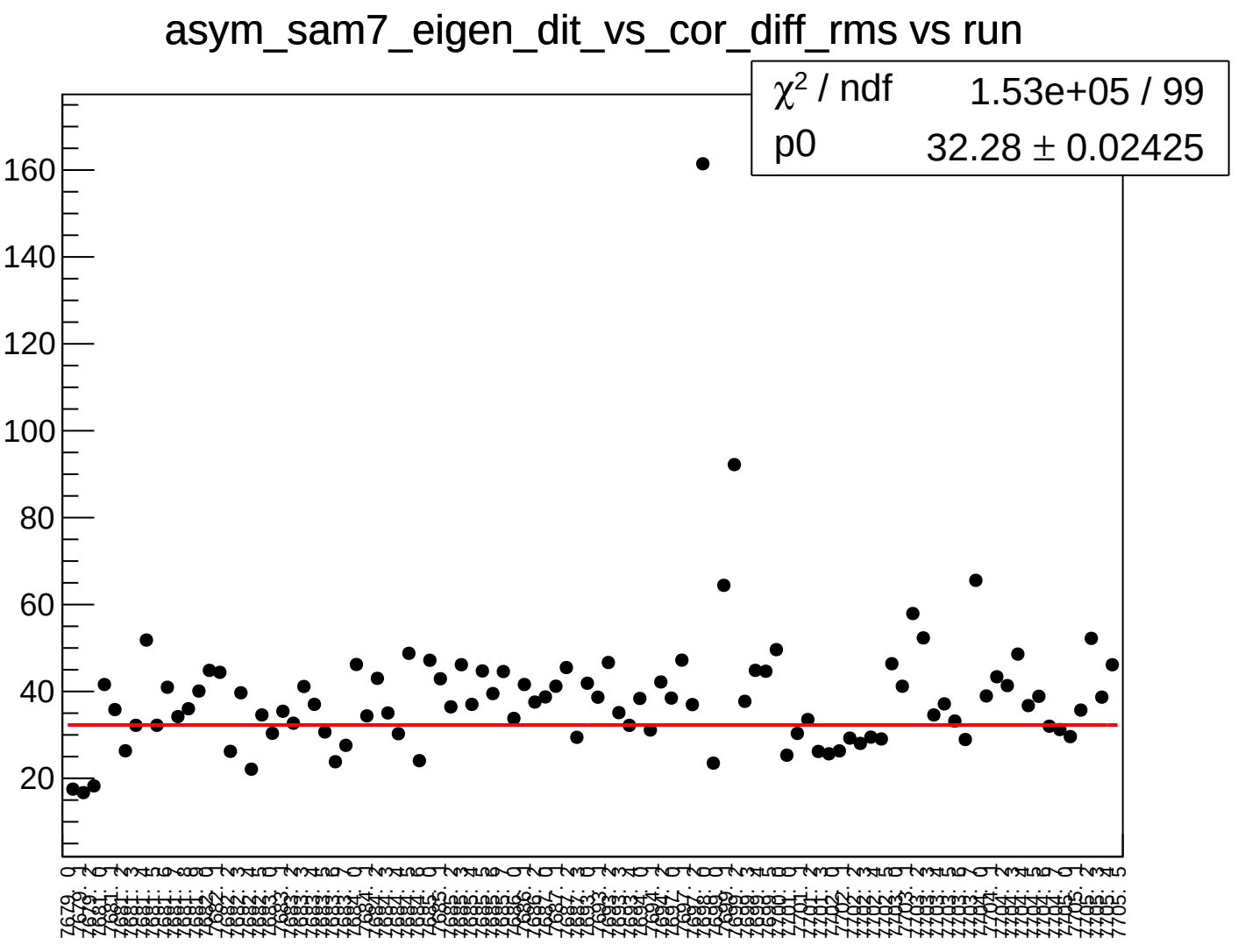

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.52 / 99
p0 −4.252e−06 ± 2.866e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 100
Mean −63.45
Std Dev 0
2
1
0
−1
−2

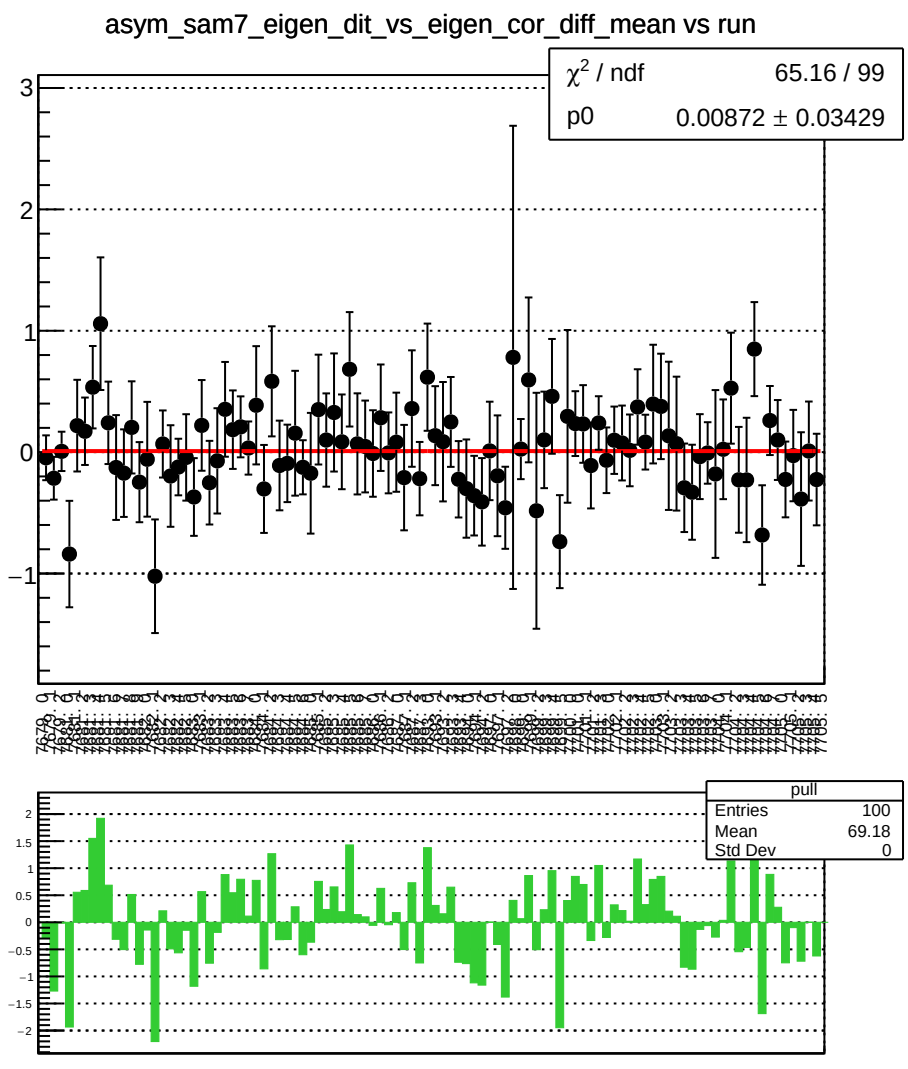

pull1D
Entries 100
Mean −0.01298
Std Dev 0.9618
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

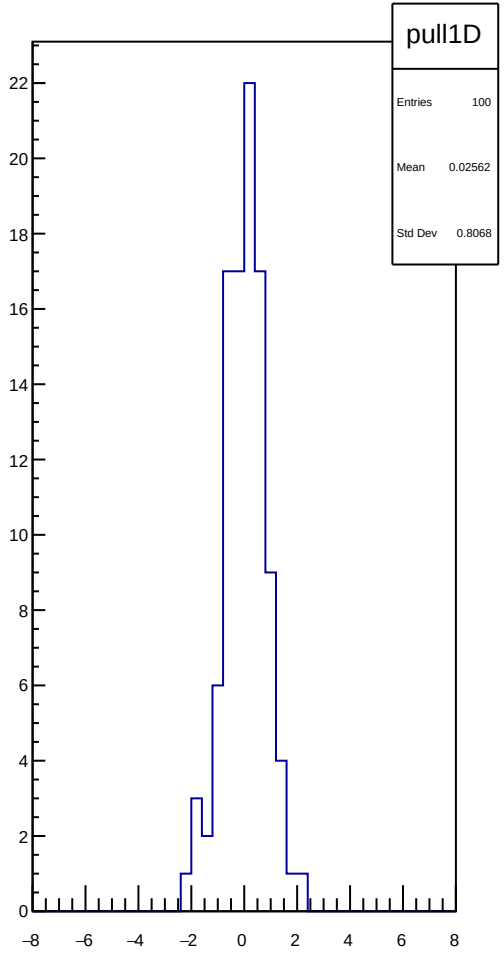

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3e+05 / 99
p0 0.002584 ± 2.027e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

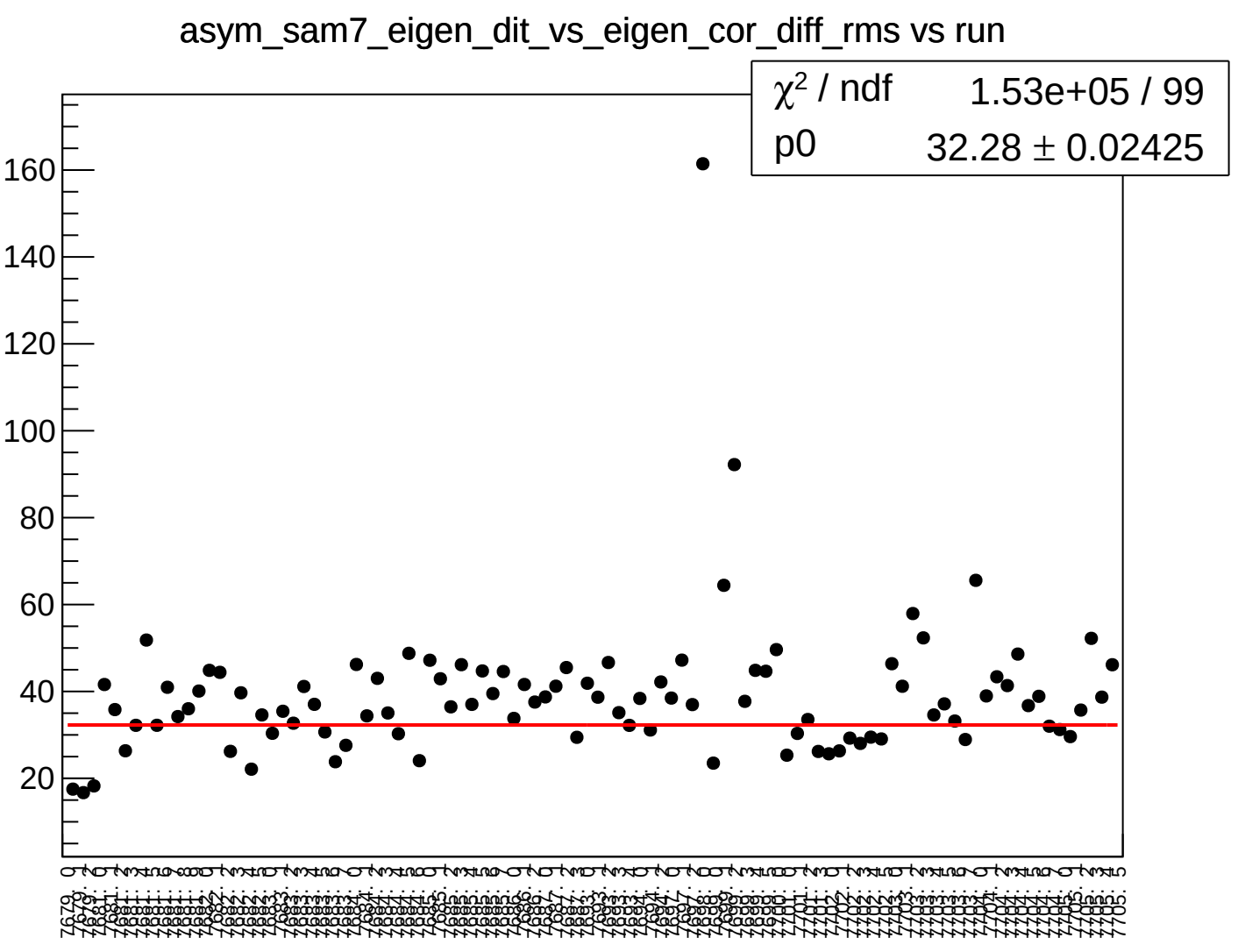

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 65.16 / 99
p0 0.00872 ± 0.03429
pull
Entries 100
Mean 69.18
Std Dev 0

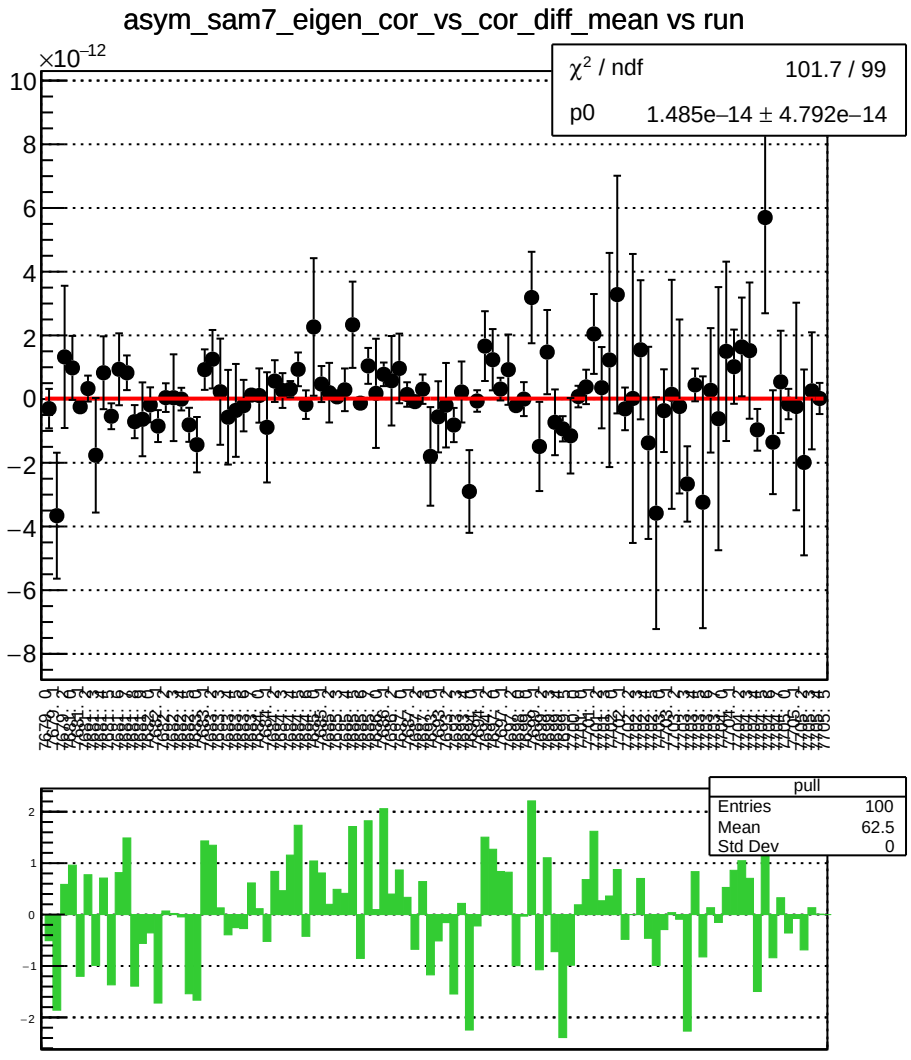

pull1D
Entries 100
Mean 0.02562
Std Dev 0.8068

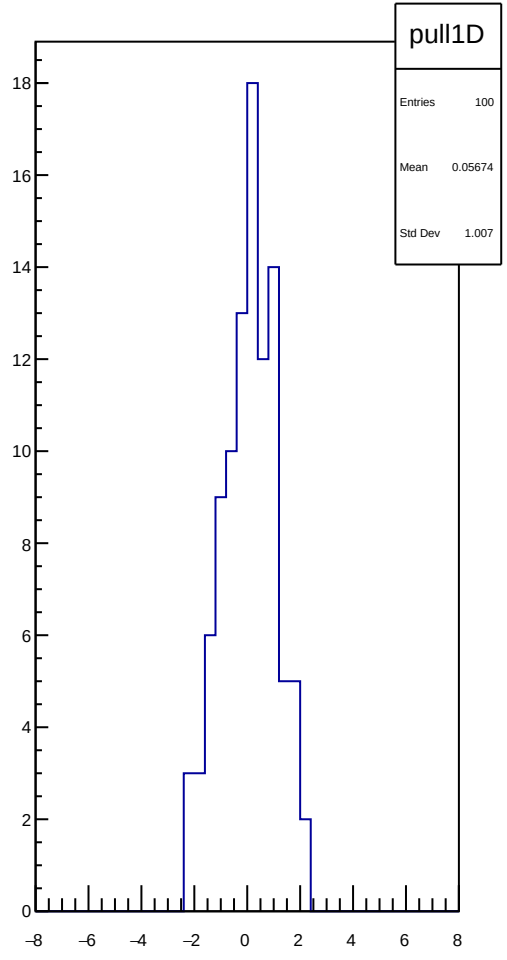

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.53e+05 / 99
p0 32.28 ± 0.02425
160
140
120
100
80
60
40
20

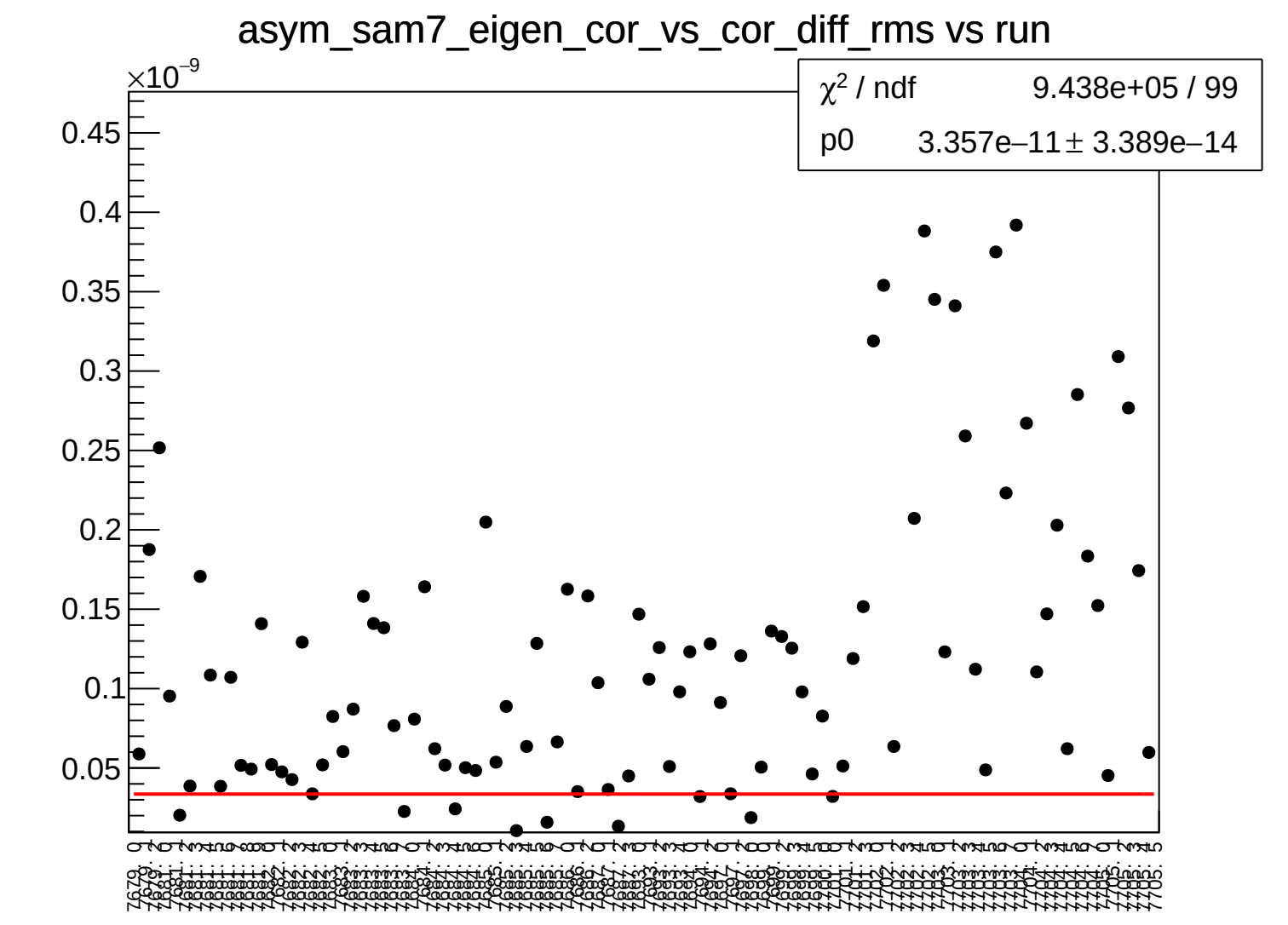

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.16 / 99
p0 0.00872 ± 0.03429
pull
Entries 100
Mean 69.18
Std Dev 0

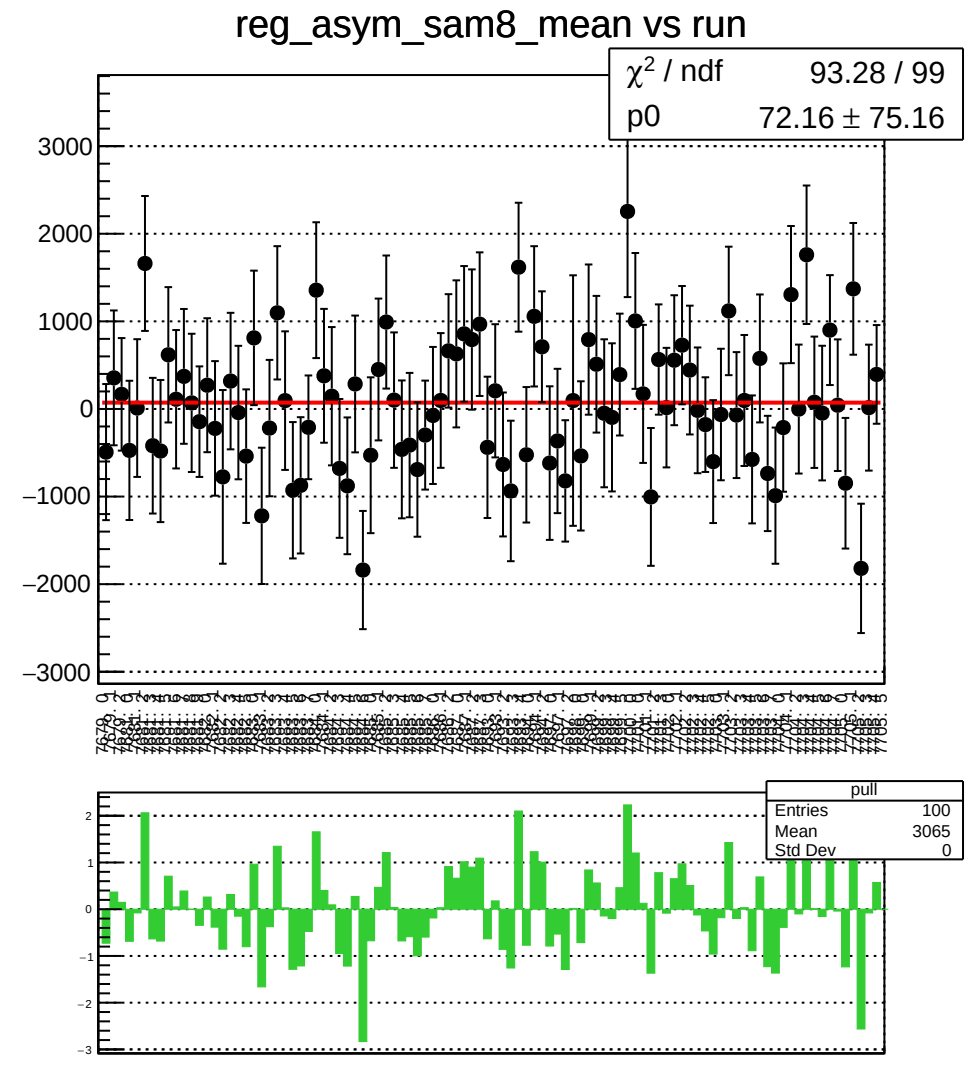

pull1D
Entries 100
Mean 0.02562
Std Dev 0.8068

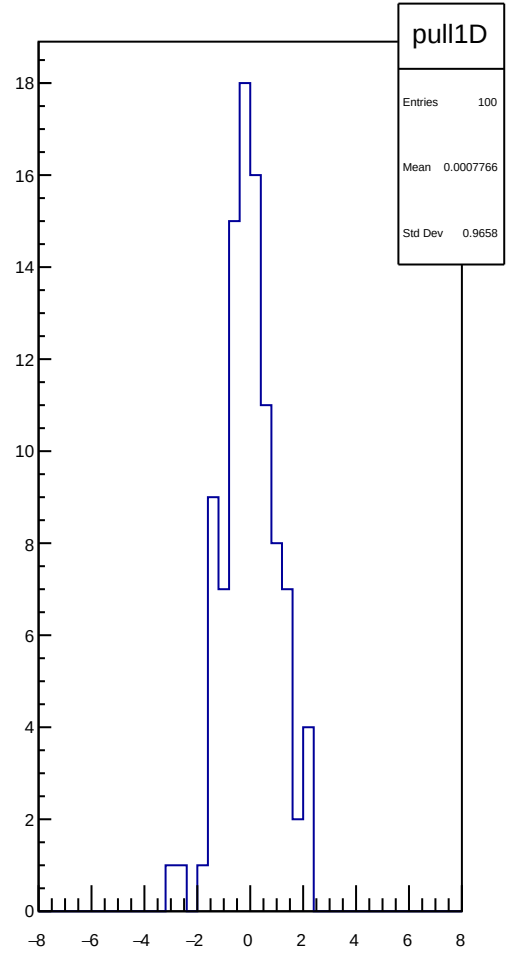

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.53e+05 / 99
p0 32.28 ± 0.02425
160
140
120
100
80
60
40
20

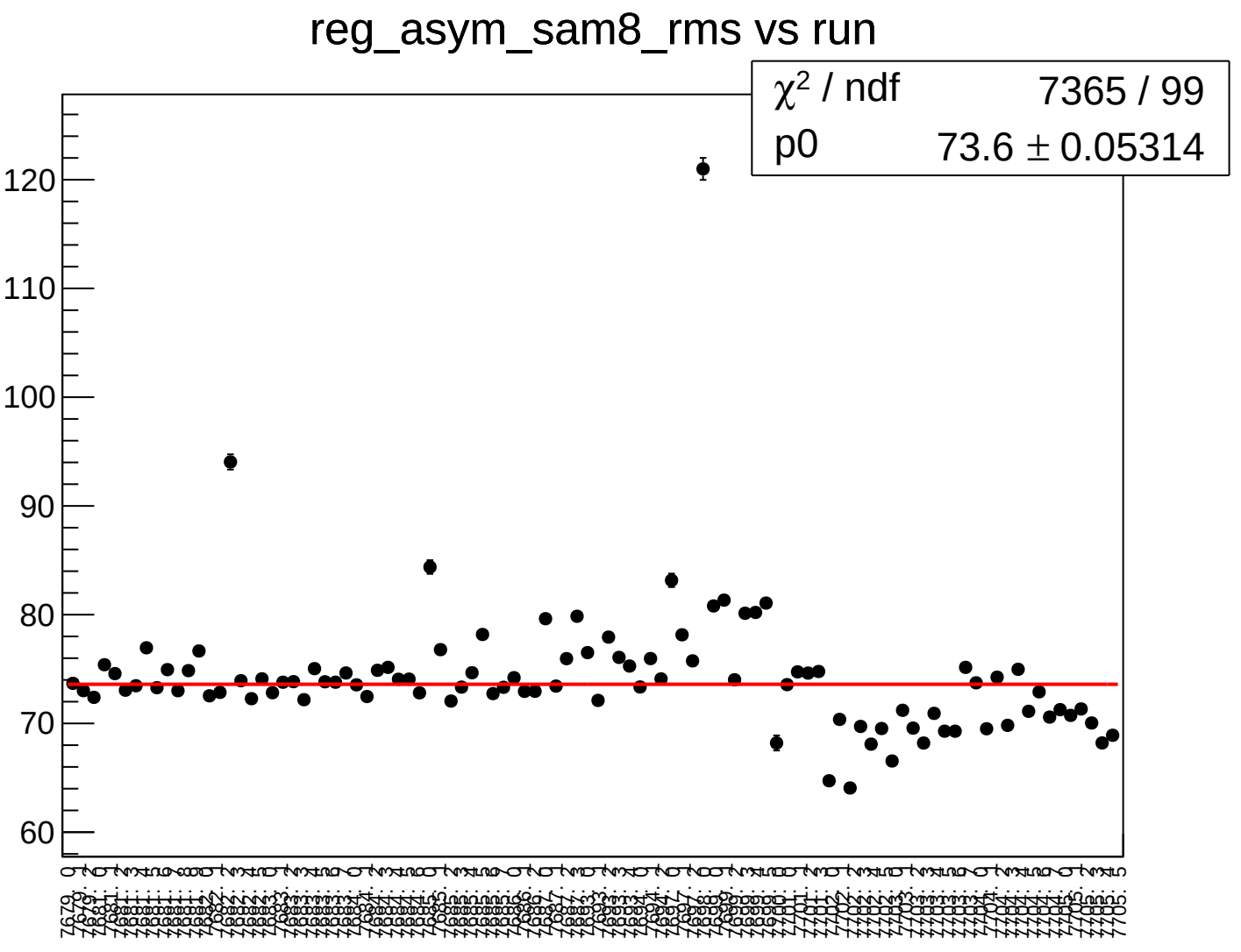

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.7 / 99
p0 1.485e−14 ± 4.792e−14
pull
Entries 100
Mean 62.5
Std Dev 0

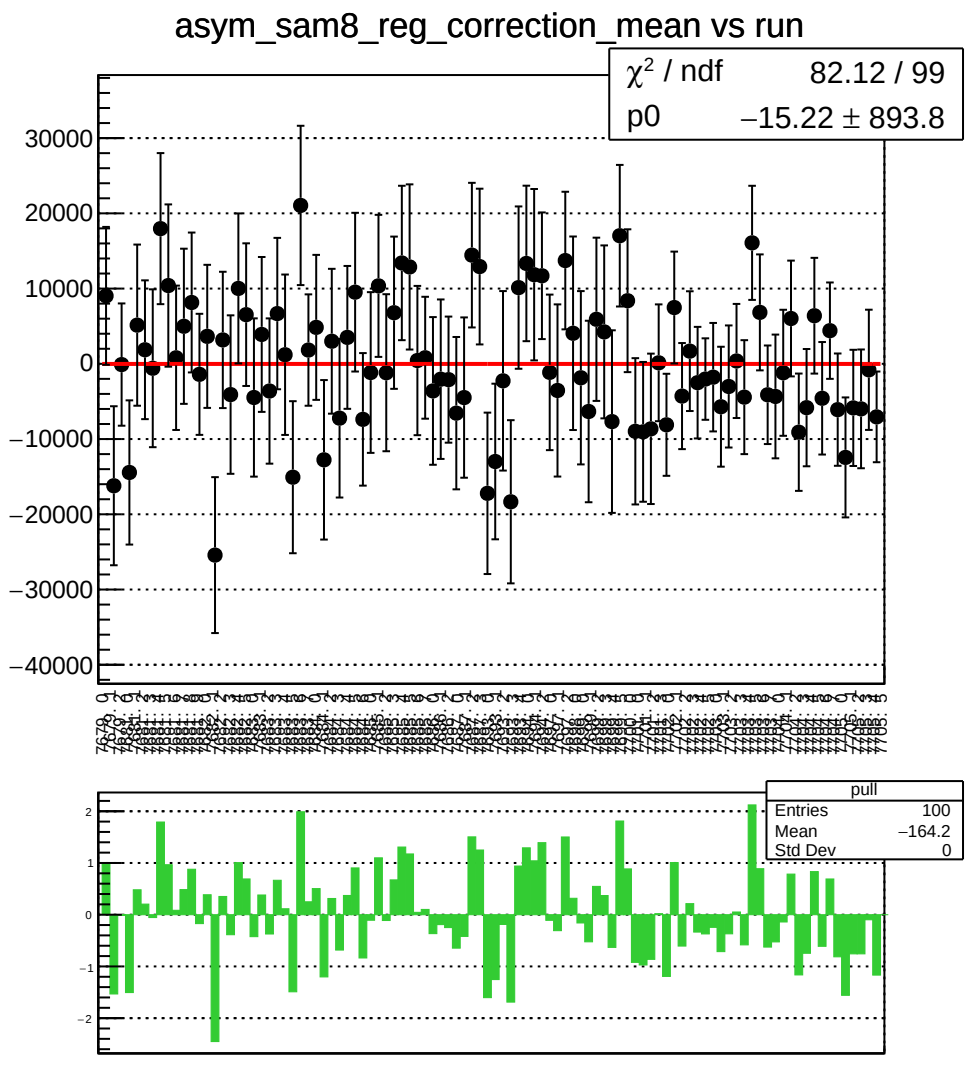

pull1D
Entries 100
Mean 0.05674
Std Dev 1.007

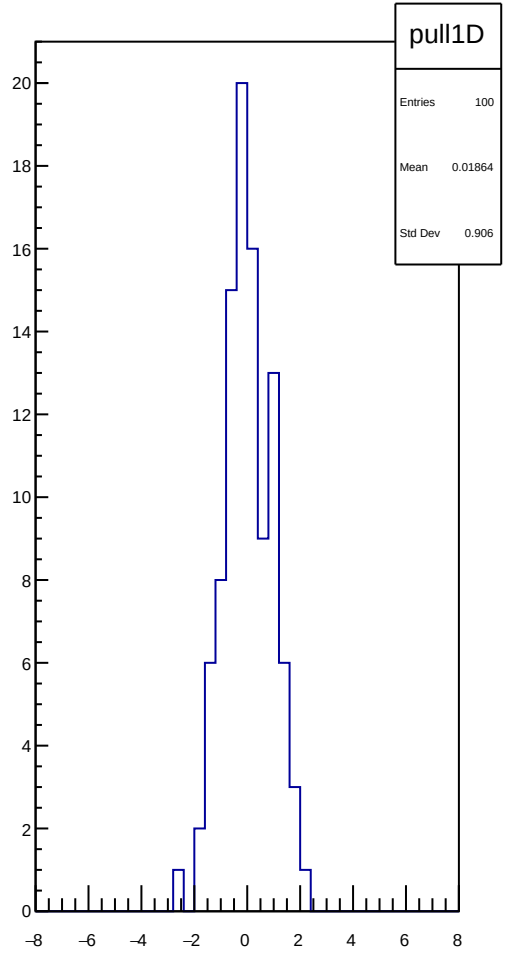

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.438e+05 / 99
p0 3.357e−11 ± 3.389e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

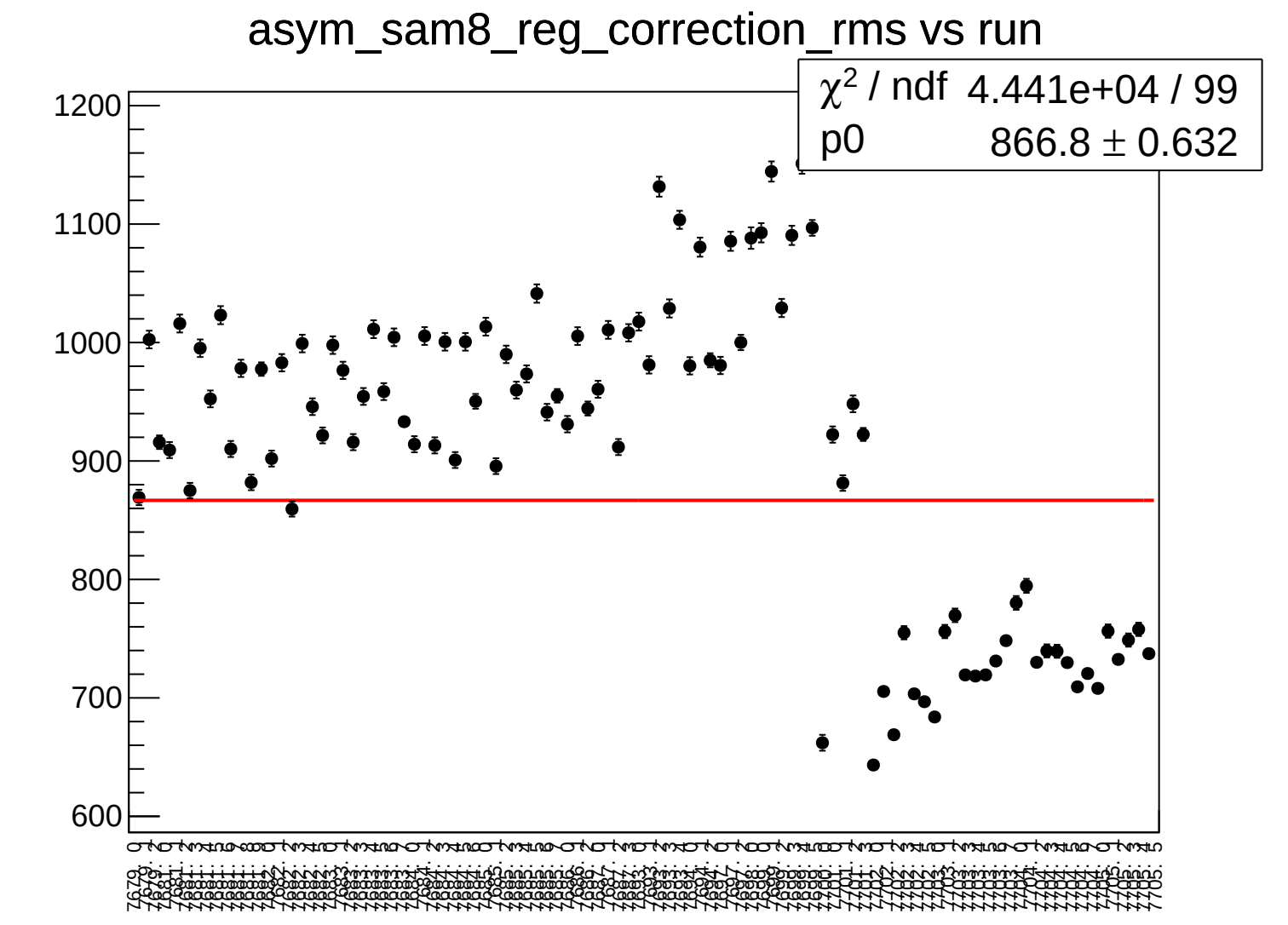

reg_asym_sam8_mean vs run
χ² / ndf 93.28 / 99
p0 72.16 ± 75.16
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 100
Mean 3065
Std Dev 0
2
1
0
−1
−2
−3

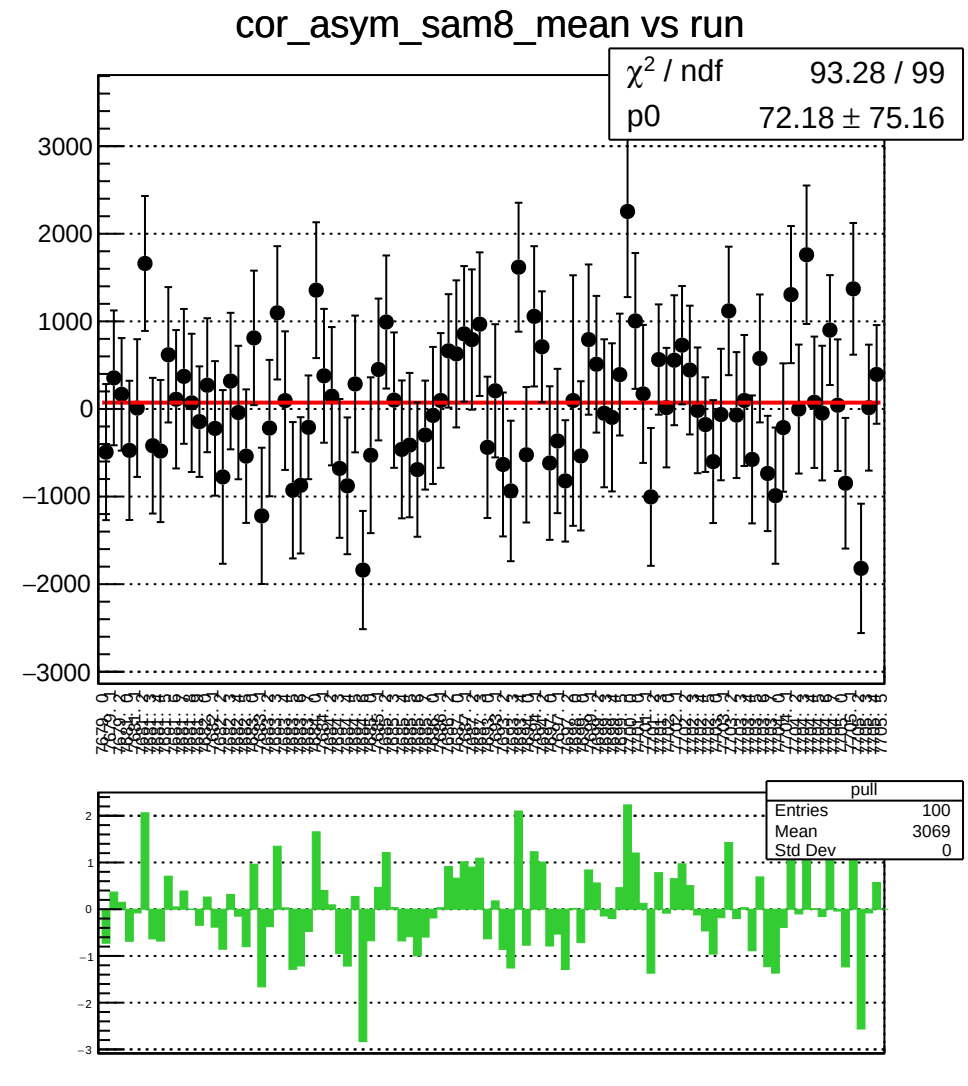

pull1D
Entries 100
Mean 0.0007766
Std Dev 0.9658
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

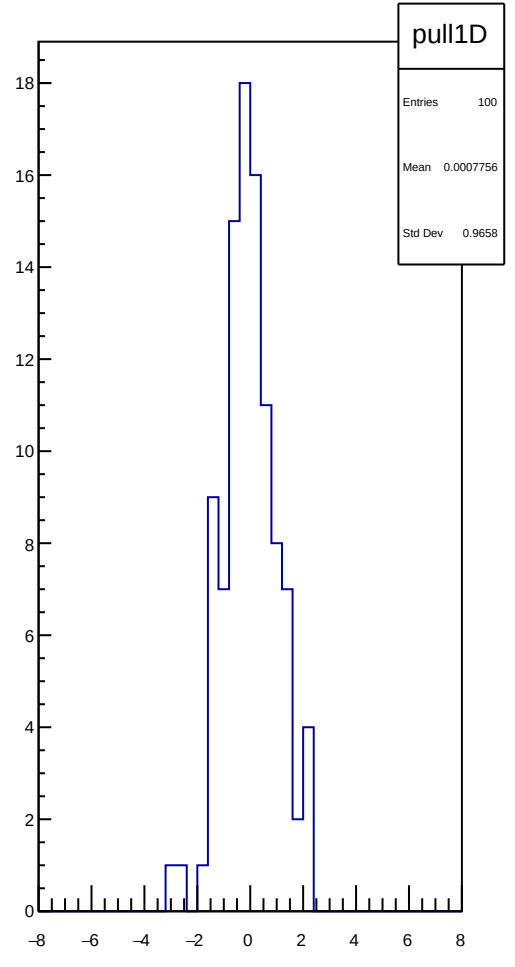

reg_asym_sam8_rms vs run
χ^2 / ndf 7365 / 99
p0 73.6 ± 0.05314
120
110
100
90
80
70
60

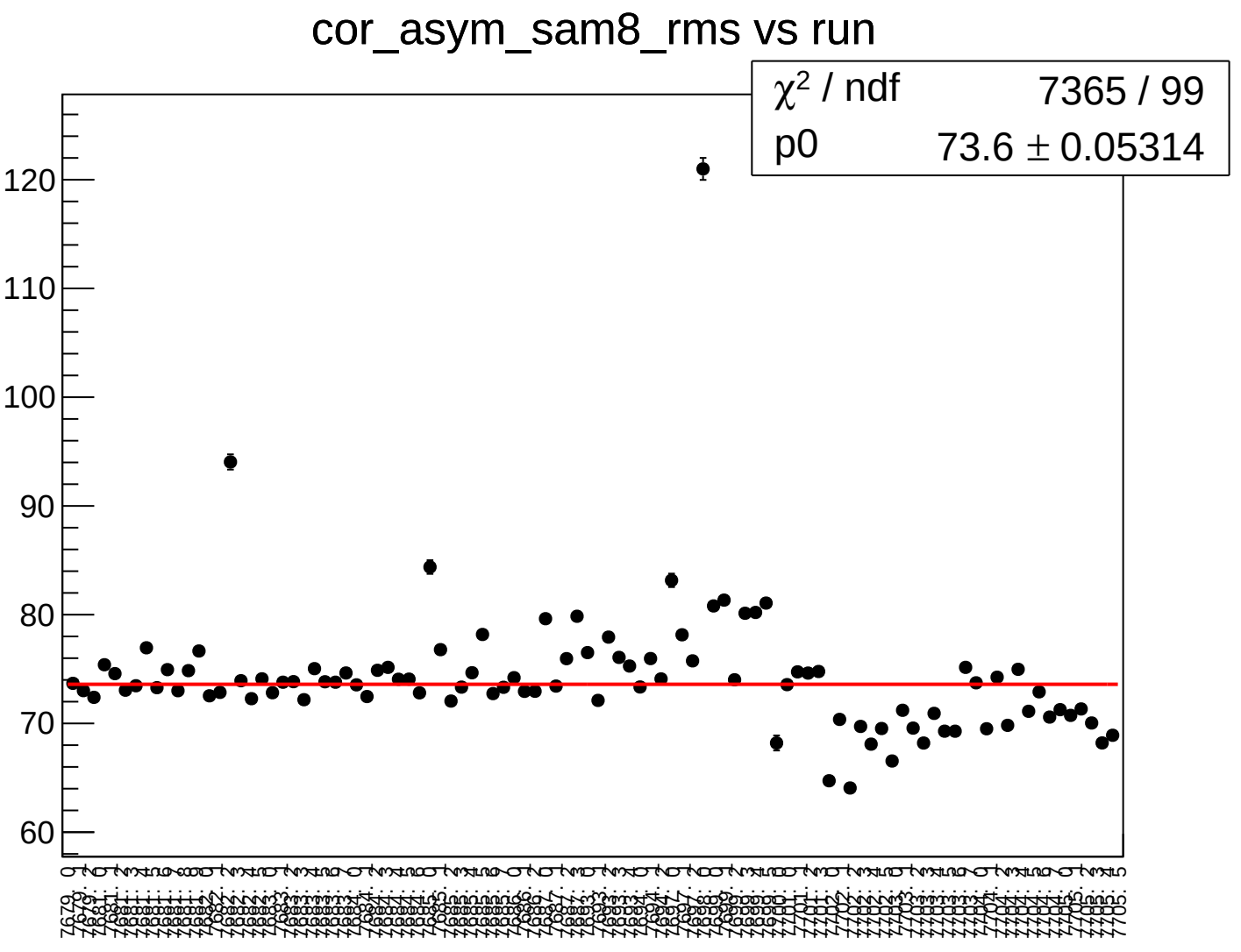

asym_sam8_reg_correction_mean vs run
χ² / ndf 82.12 / 99
p0 −15.22 ± 893.8
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 100
Mean −164.2
Std Dev 0
2
1
0
−1
−2

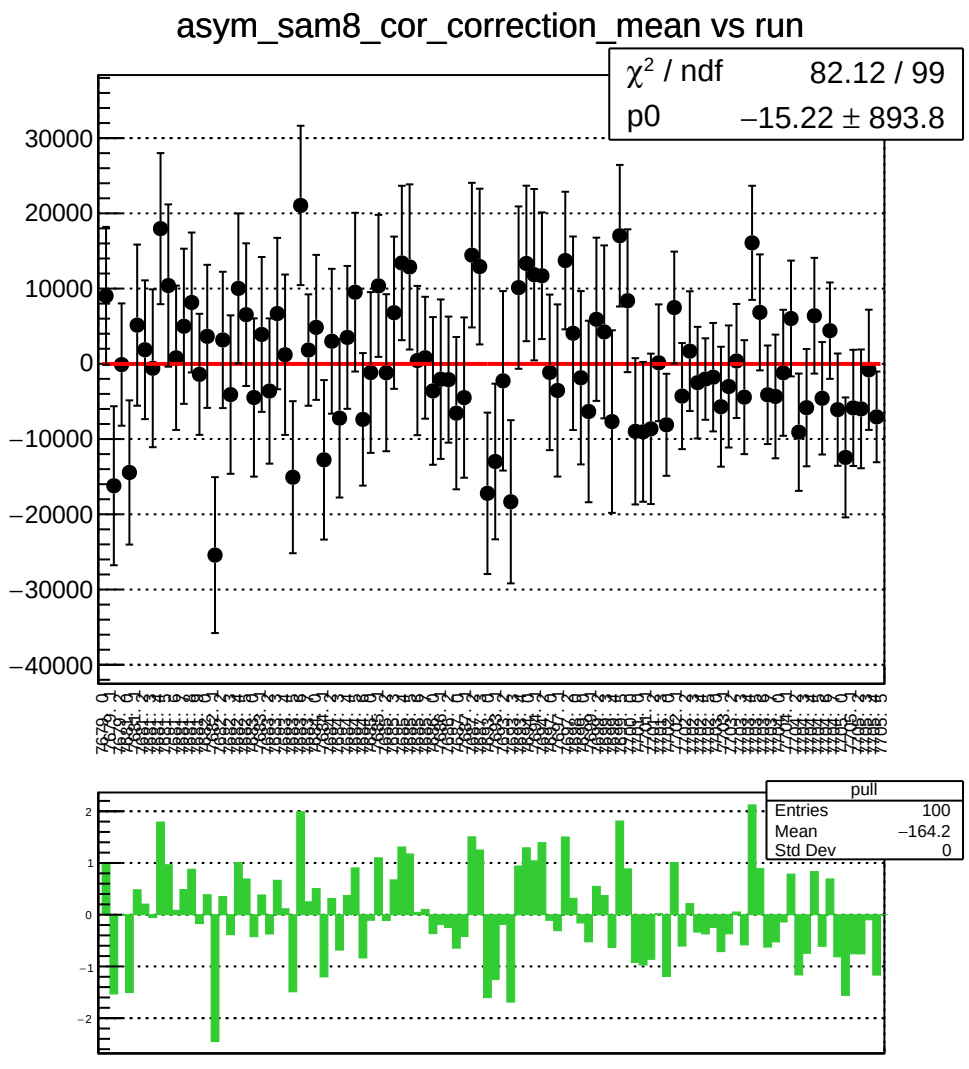

pull1D
Entries 100
Mean 0.01864
Std Dev 0.906
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

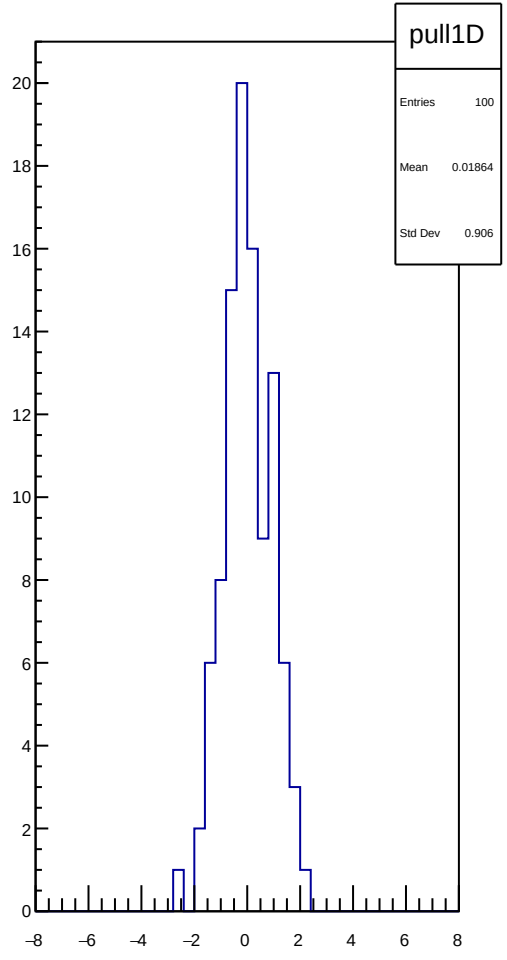

asym_sam8_reg_correction_rms vs run
χ² / ndf 4.441e+04 / 99
p0 866.8 ± 0.632
1200
1100
1000
900
800
700
600

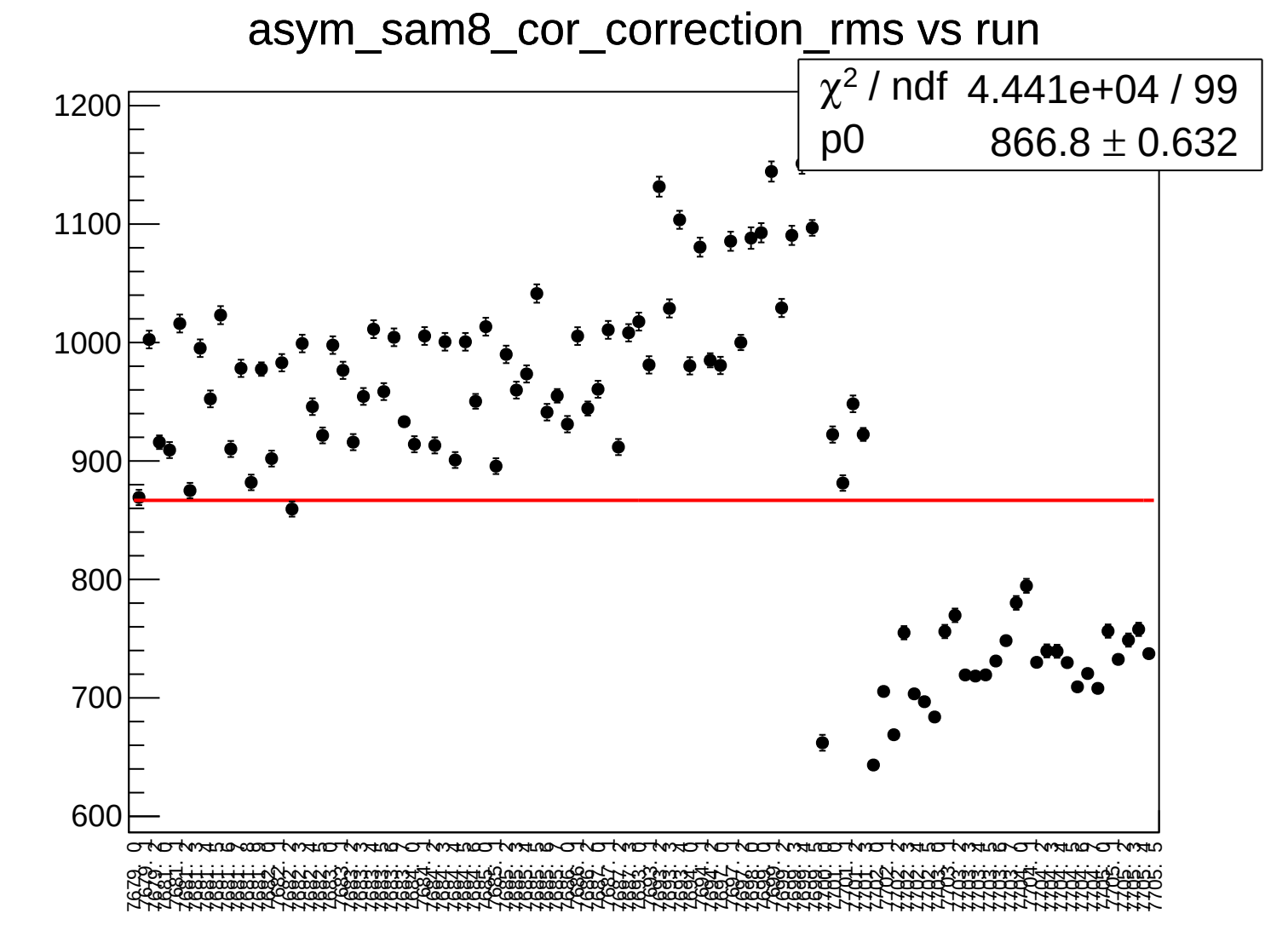

cor_asym_sam8_mean vs run
χ² / ndf 93.28 / 99
p0 72.18 ± 75.16
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 100
Mean 3069
Std Dev 0
2
1
0
−1
−2
−3

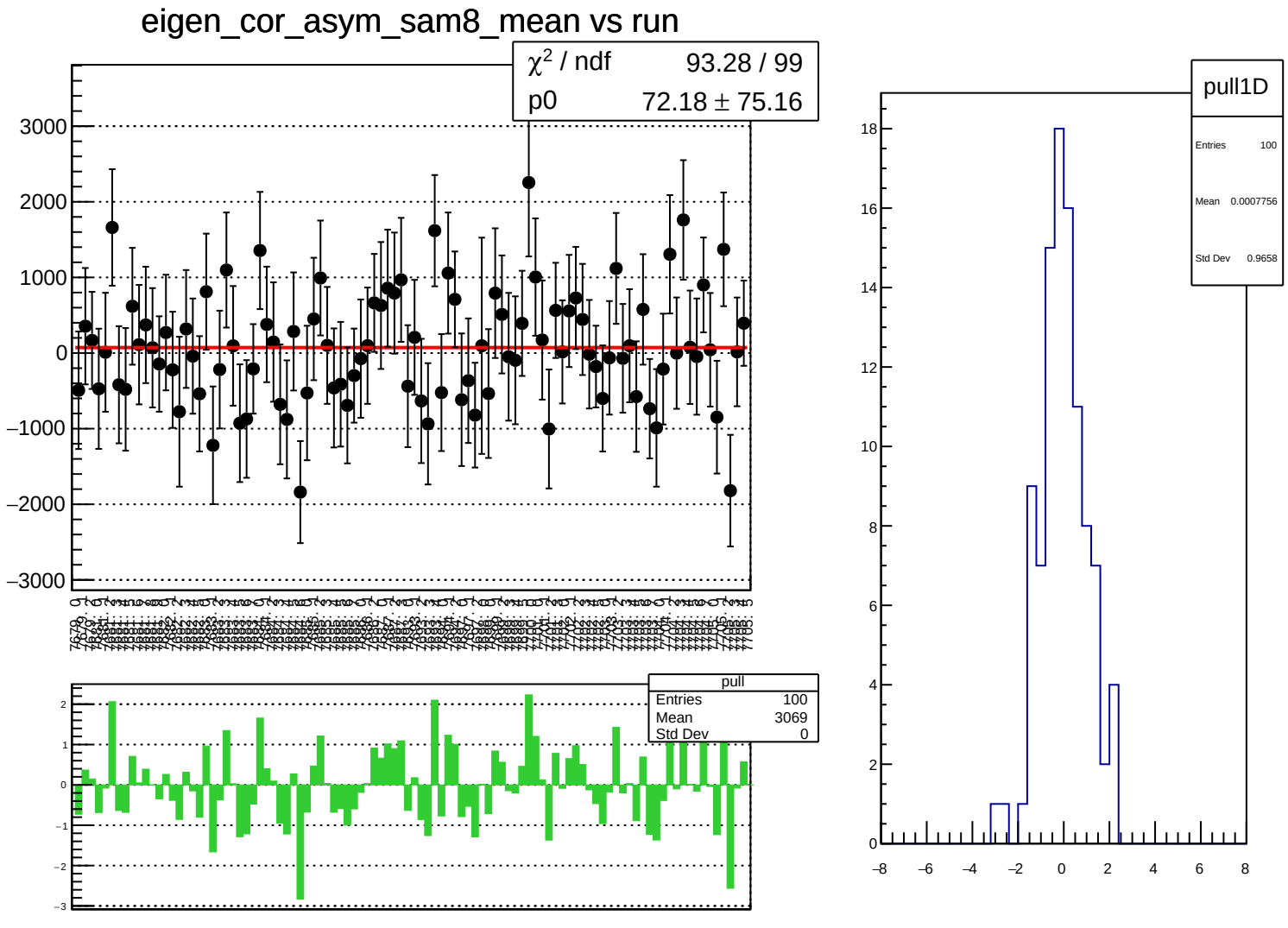

pull1D
Entries 100
Mean 0.0007756
Std Dev 0.9658
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

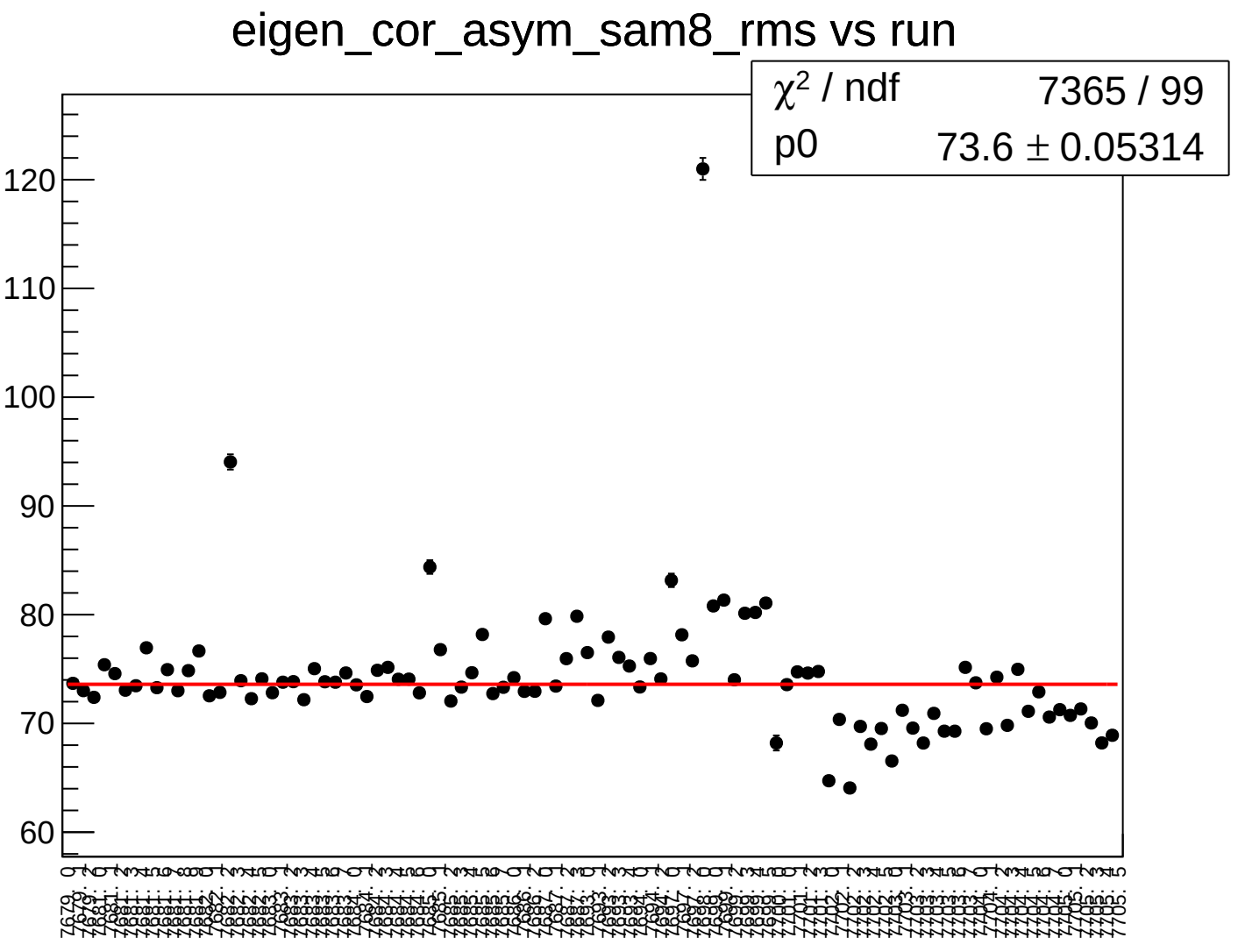

cor_asym_sam8_rms vs run
χ^2 / ndf 7365 / 99
p0 73.6 ± 0.05314
120
110
100
90
80
70
60

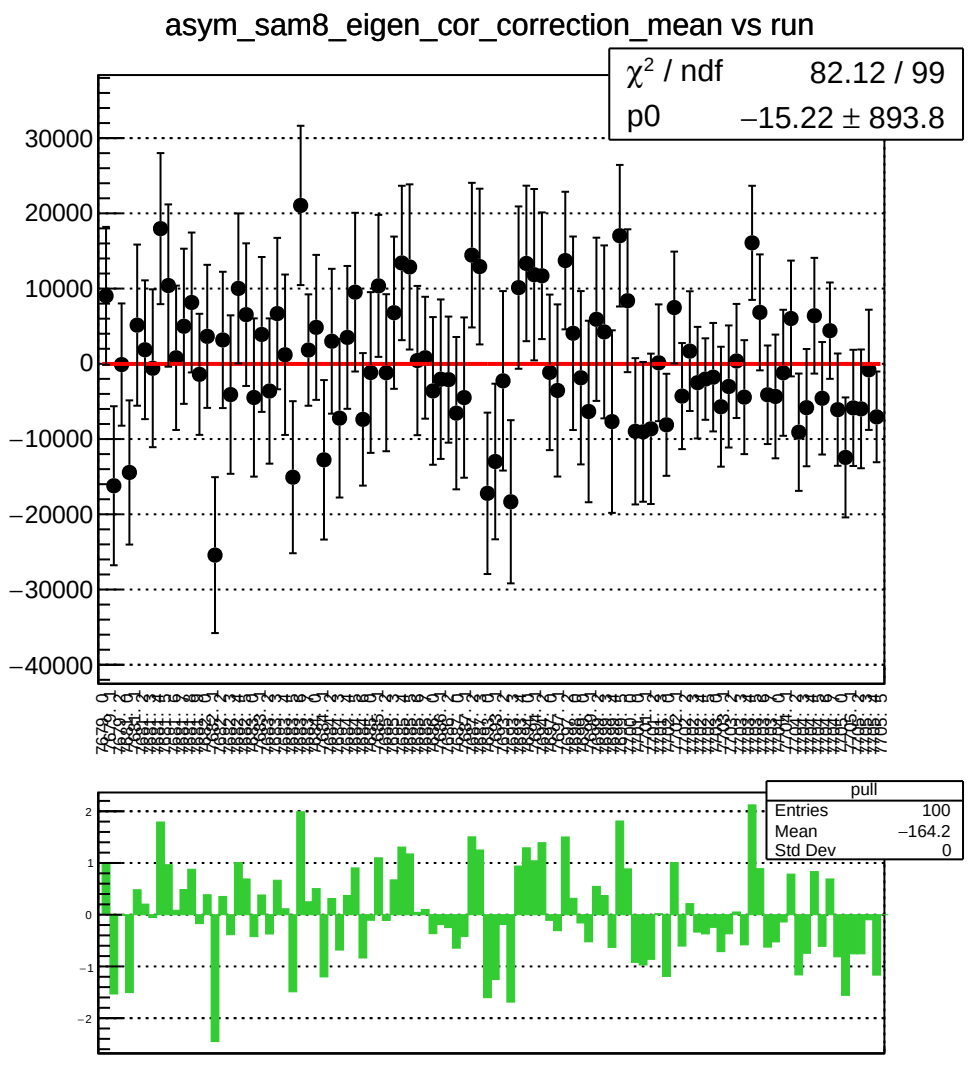

asym_sam8_cor_correction_mean vs run
χ² / ndf 82.12 / 99
p0 −15.22 ± 893.8
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 100
Mean −164.2
Std Dev 0
2
1
0
−1
−2

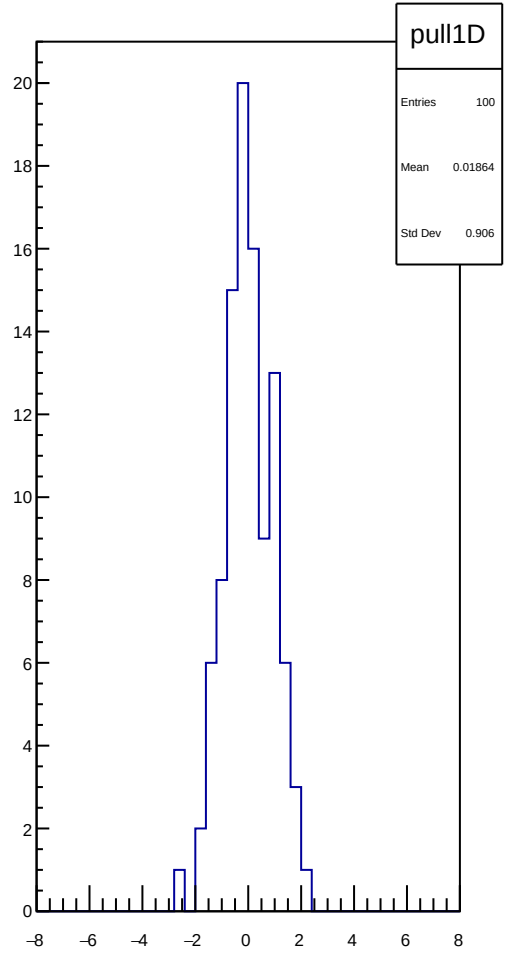

pull1D
Entries 100
Mean 0.01864
Std Dev 0.906
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

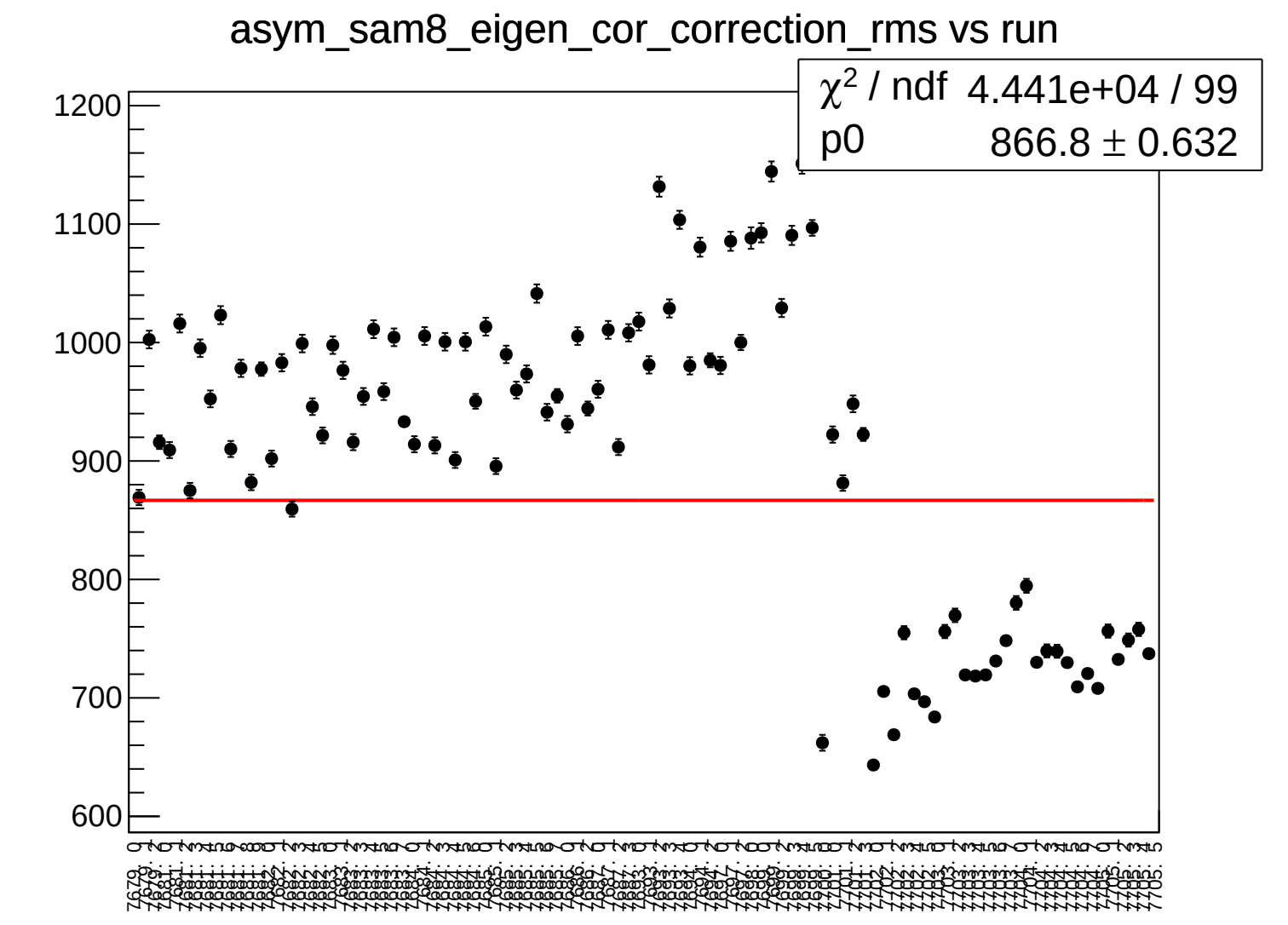

asym_sam8_cor_correction_rms vs run
χ^2 / ndf 4.441e+04 / 99
p0 866.8 ± 0.632
1200
1100
1000
900
800
700
600

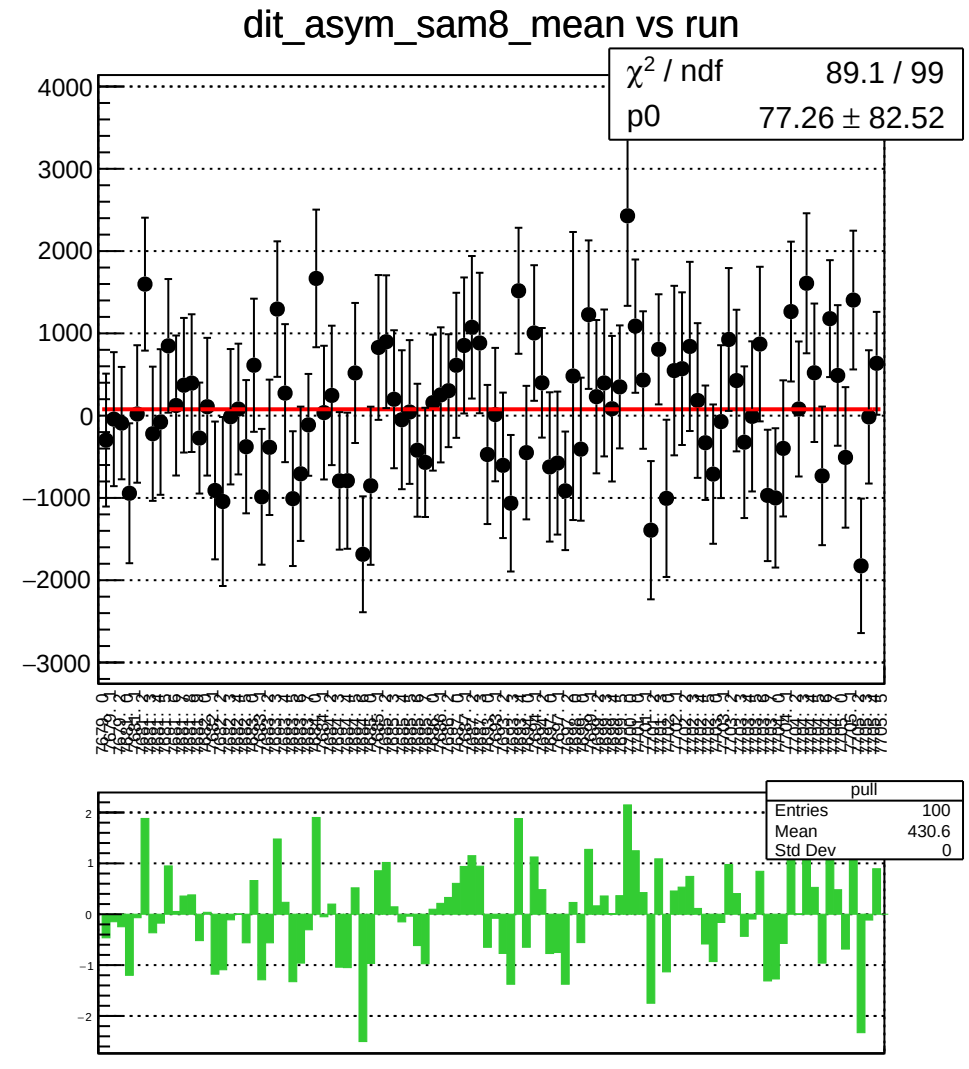

eigen_cor_asym_sam8_mean vs run
χ² / ndf 93.28 / 99
p0 72.18 ± 75.16
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 100
Mean 3069
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean 0.0007756
Std Dev 0.9658
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

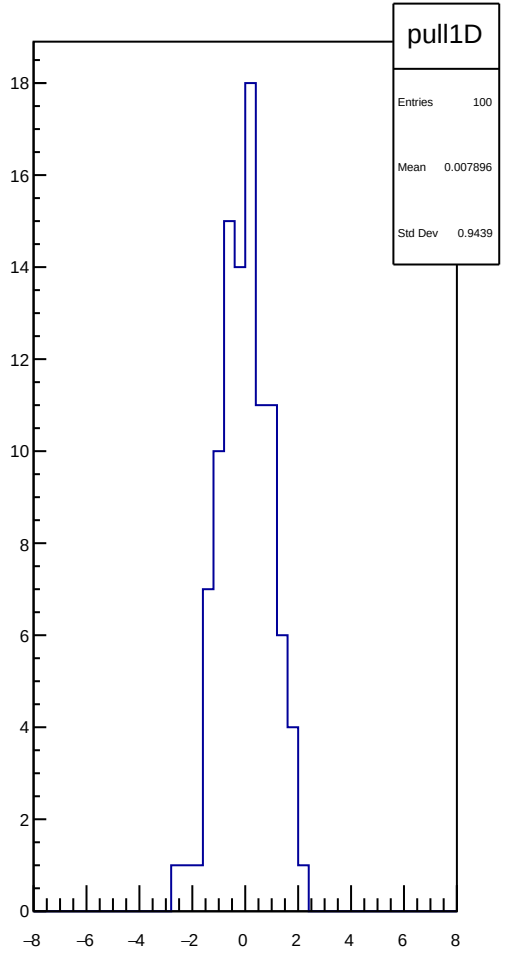

eigen_cor_asym_sam8_rms vs run
χ^2 / ndf 7365 / 99
p0 73.6 ± 0.05314
120
110
100
90
80
70
60

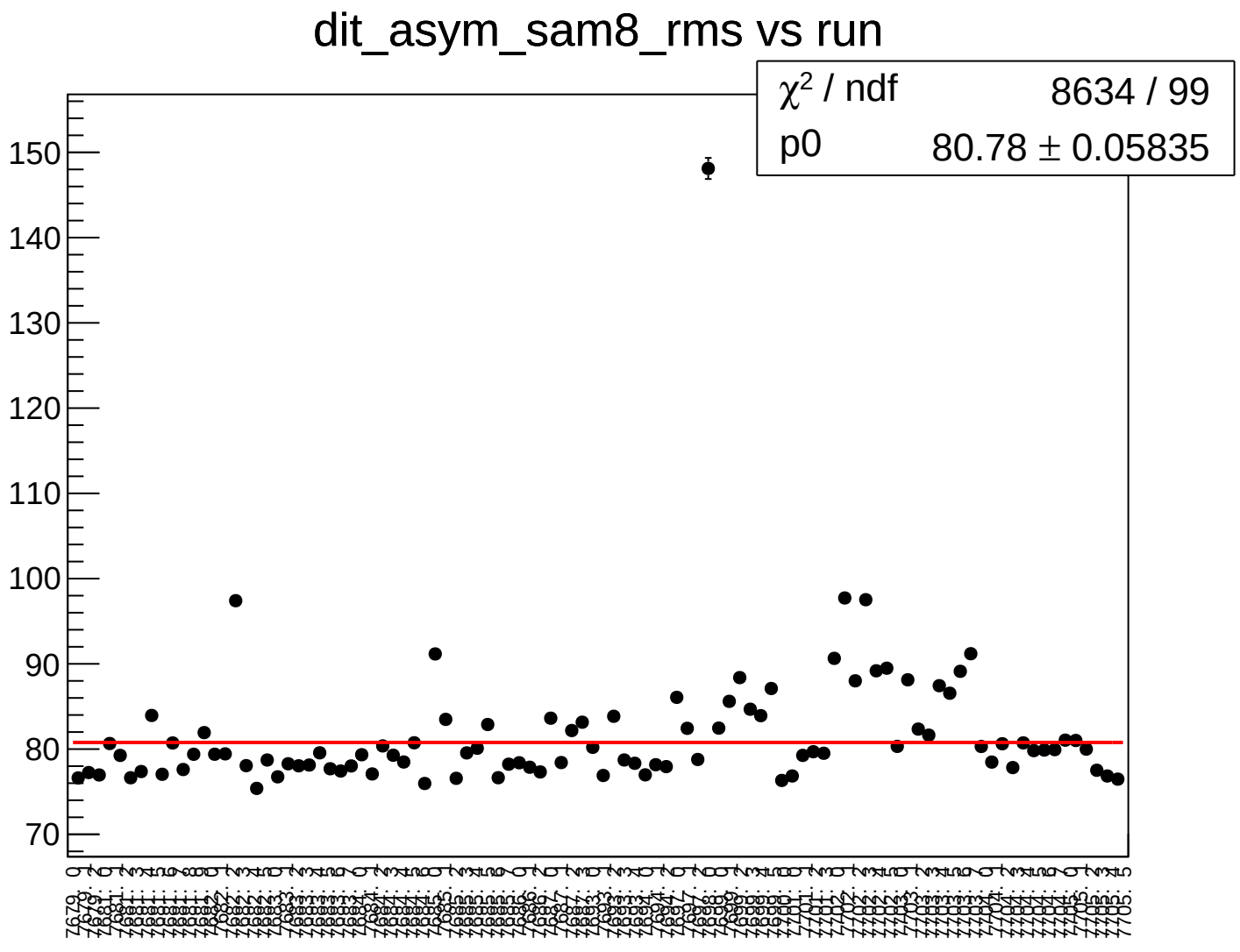

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 82.12 / 99
p0 −15.22 ± 893.8
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 100
Mean −164.2
Std Dev 0
2
1
0
−1
−2

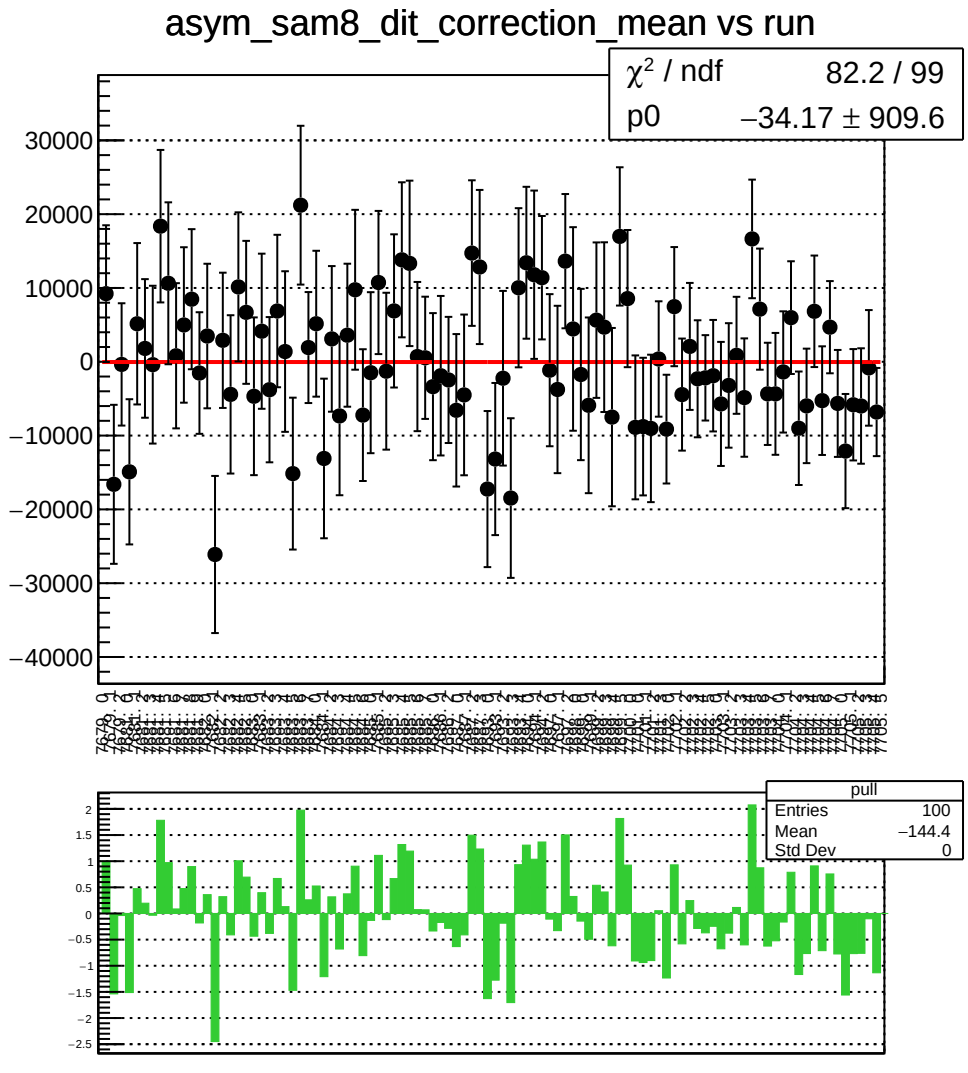

pull1D
Entries 100
Mean 0.01864
Std Dev 0.906
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

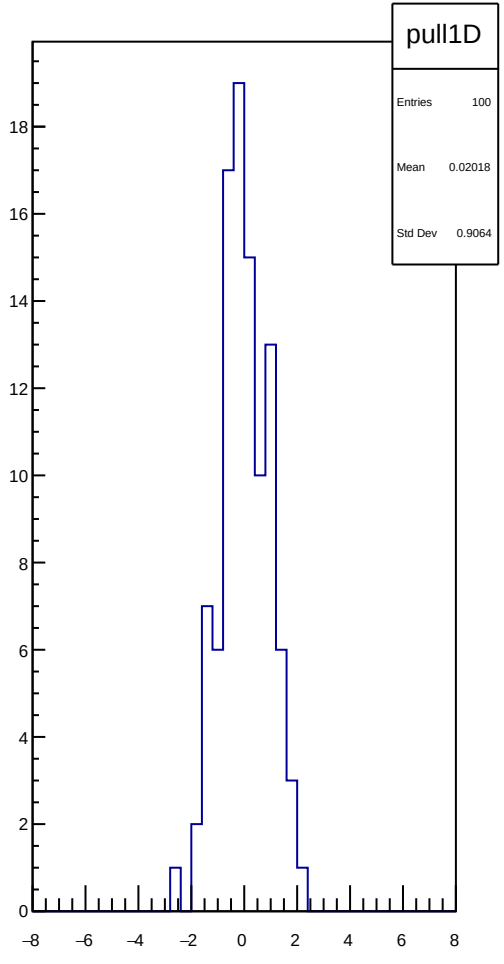

asym_sam8_eigen_cor_correction_rms vs run
χ^2 / ndf 4.441e+04 / 99
p0 866.8 ± 0.632
1200
1100
1000
900
800
700
600

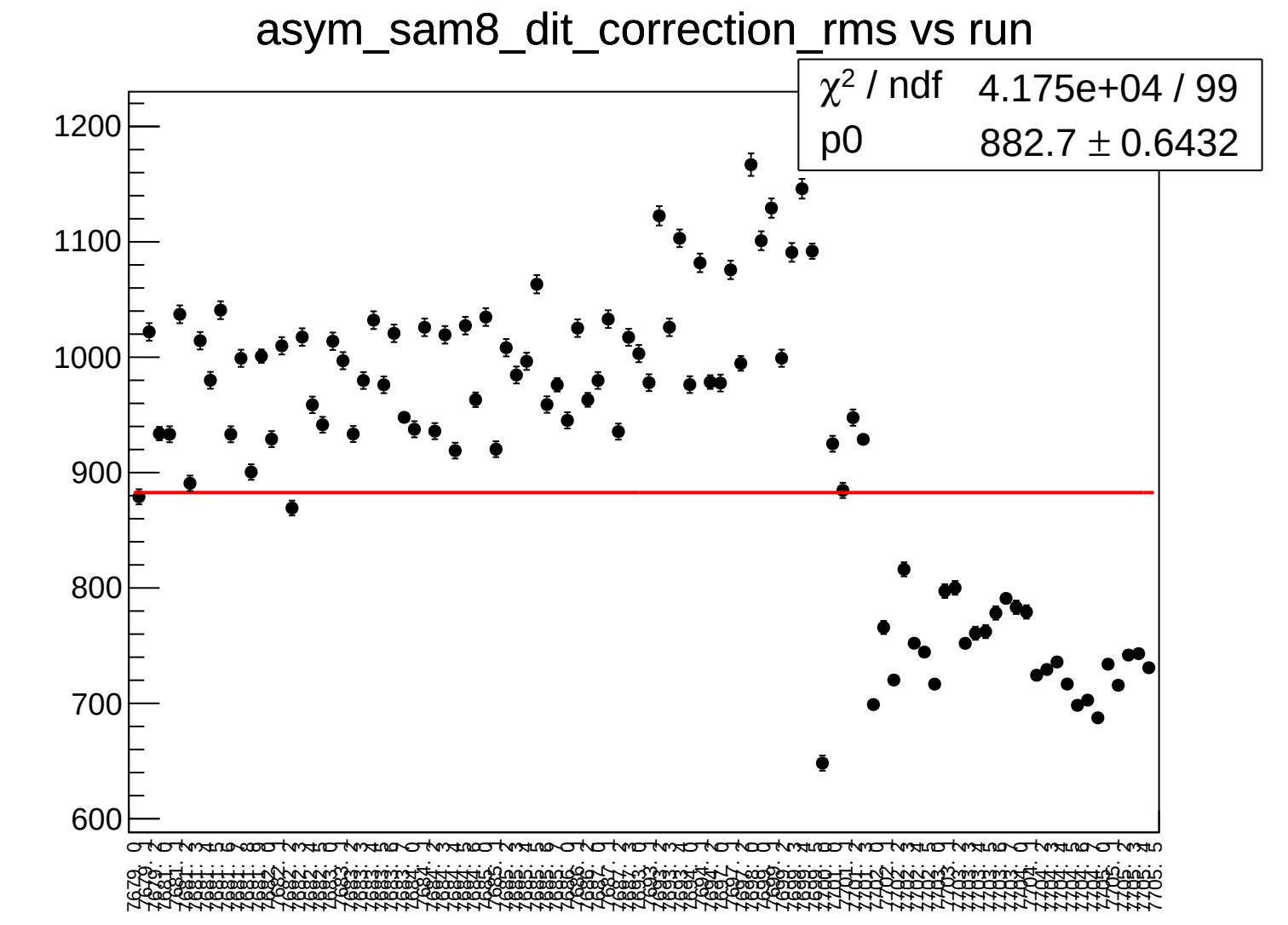

dit_asym_sam8_mean vs run
χ² / ndf 89.1 / 99
p0 77.26 ± 82.52
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 100
Mean 430.6
Std Dev 0
2
1
0
−1
−2

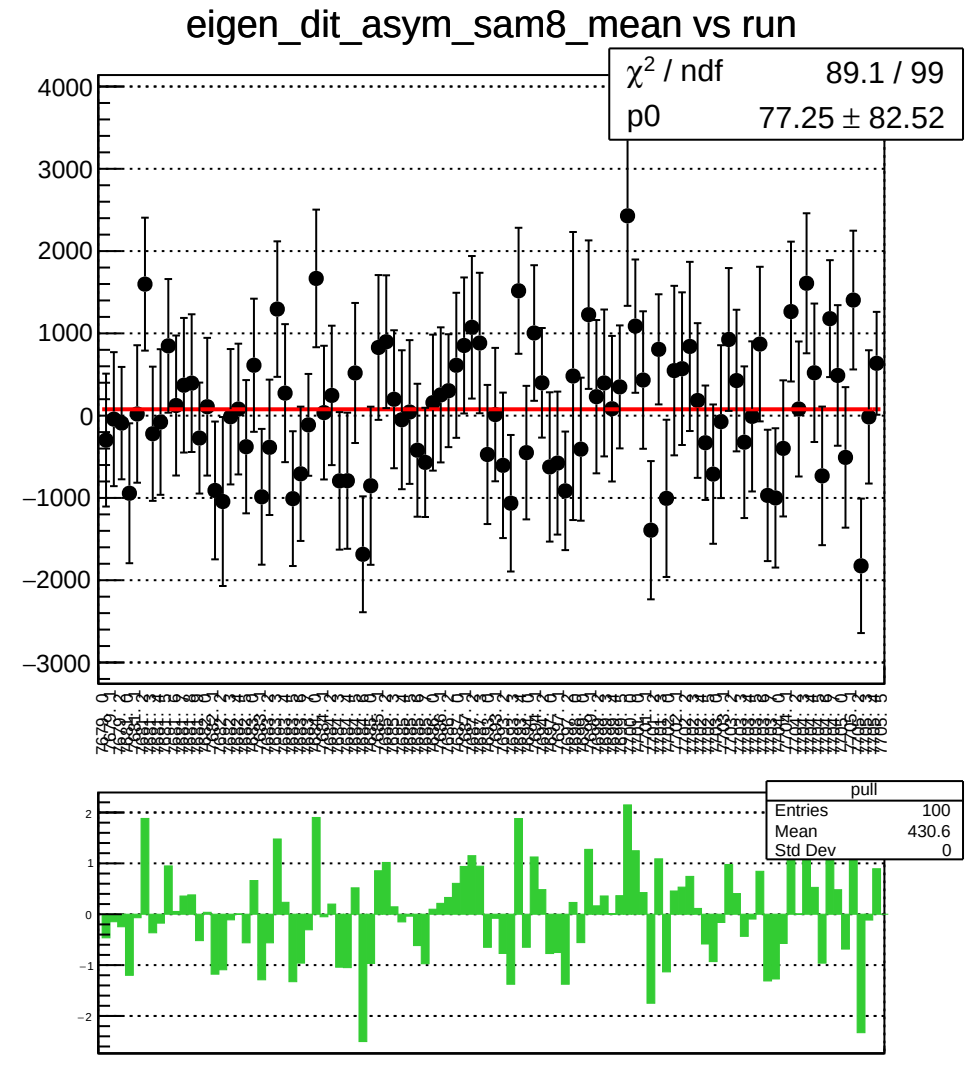

pull1D
Entries 100
Mean 0.007896
Std Dev 0.9439
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

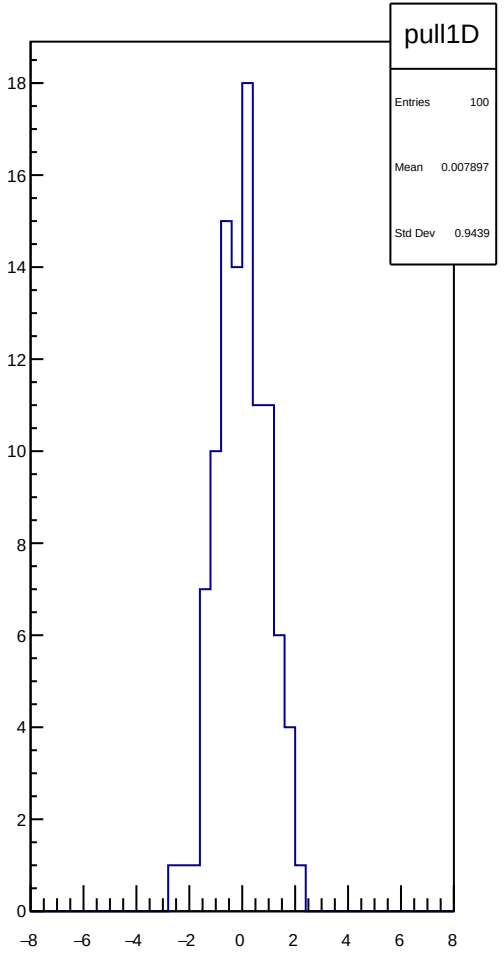

dit_asym_sam8_rms vs run
χ² / ndf 8634 / 99
p0 80.78 ± 0.05835
150
140
130
120
110
100
90
80
70

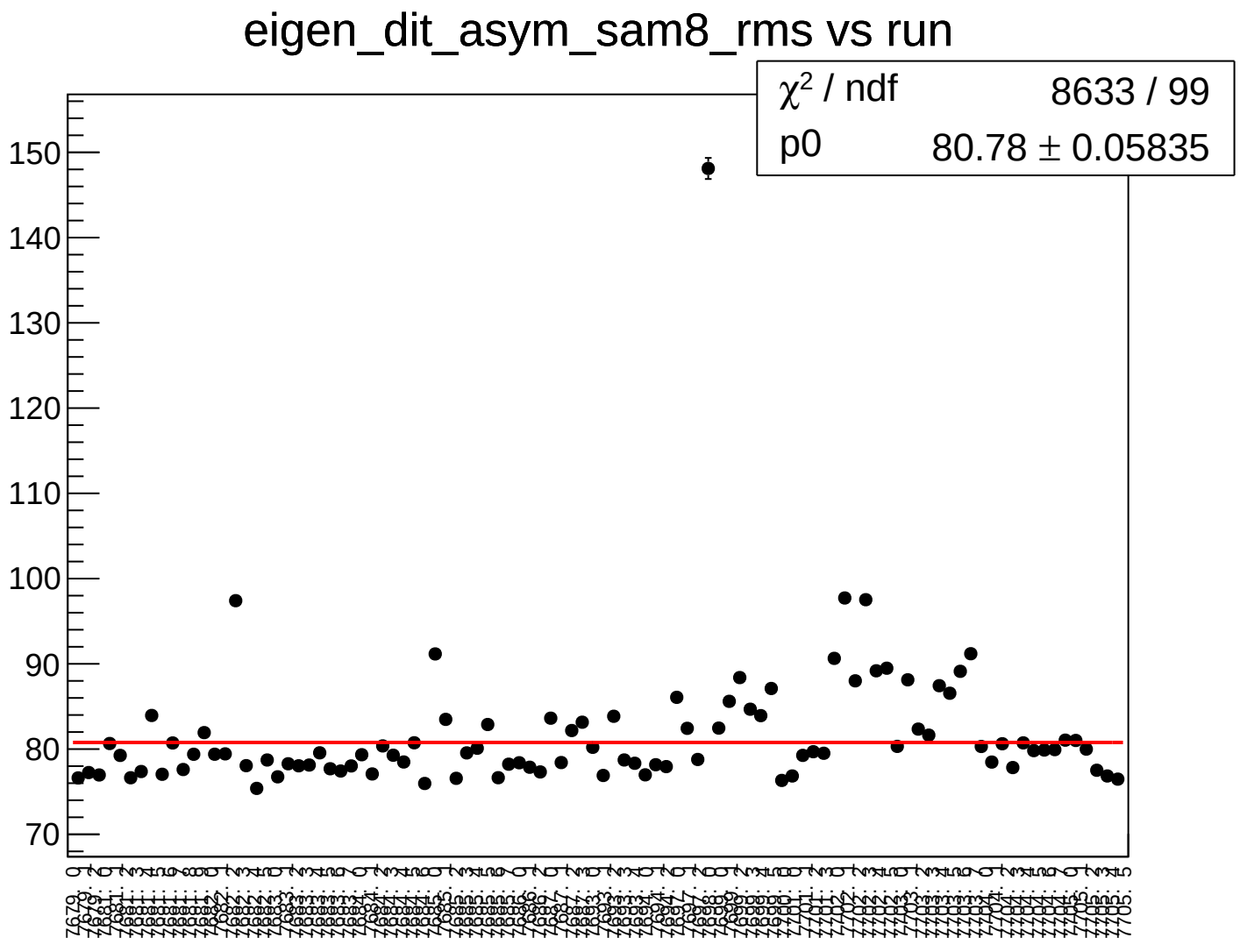

asym_sam8_dit_correction_mean vs run
χ² / ndf 82.2 / 99
p0 −34.17 ± 909.6
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 100
Mean −144.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

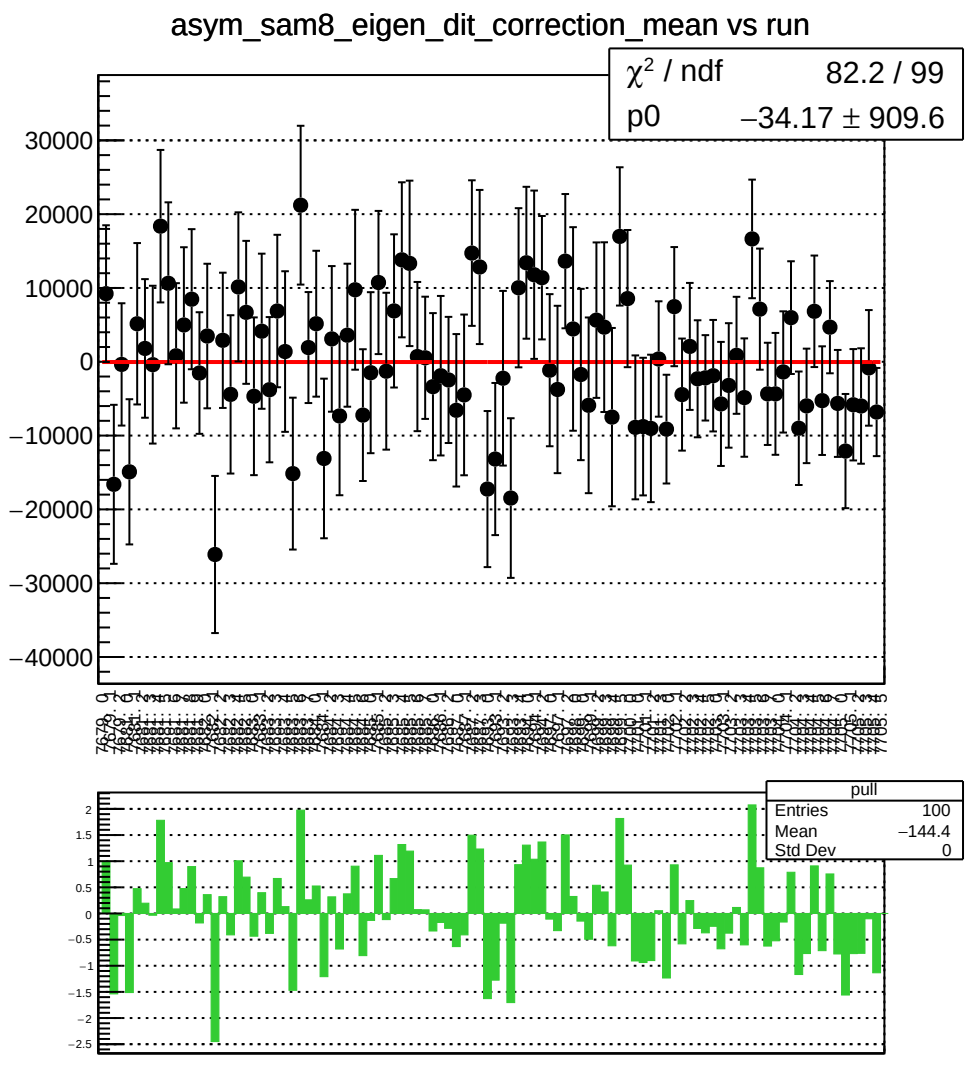

pull1D
Entries 100
Mean 0.02018
Std Dev 0.9064
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

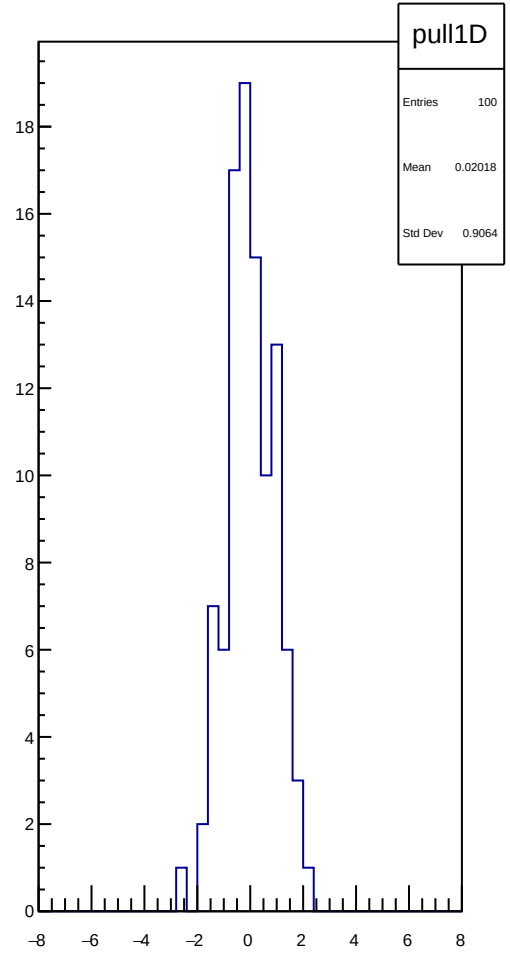

asym_sam8_dit_correction_rms vs run
χ² / ndf 4.175e+04 / 99
p0 882.7 ± 0.6432
1200
1100
1000
900
800
700
600

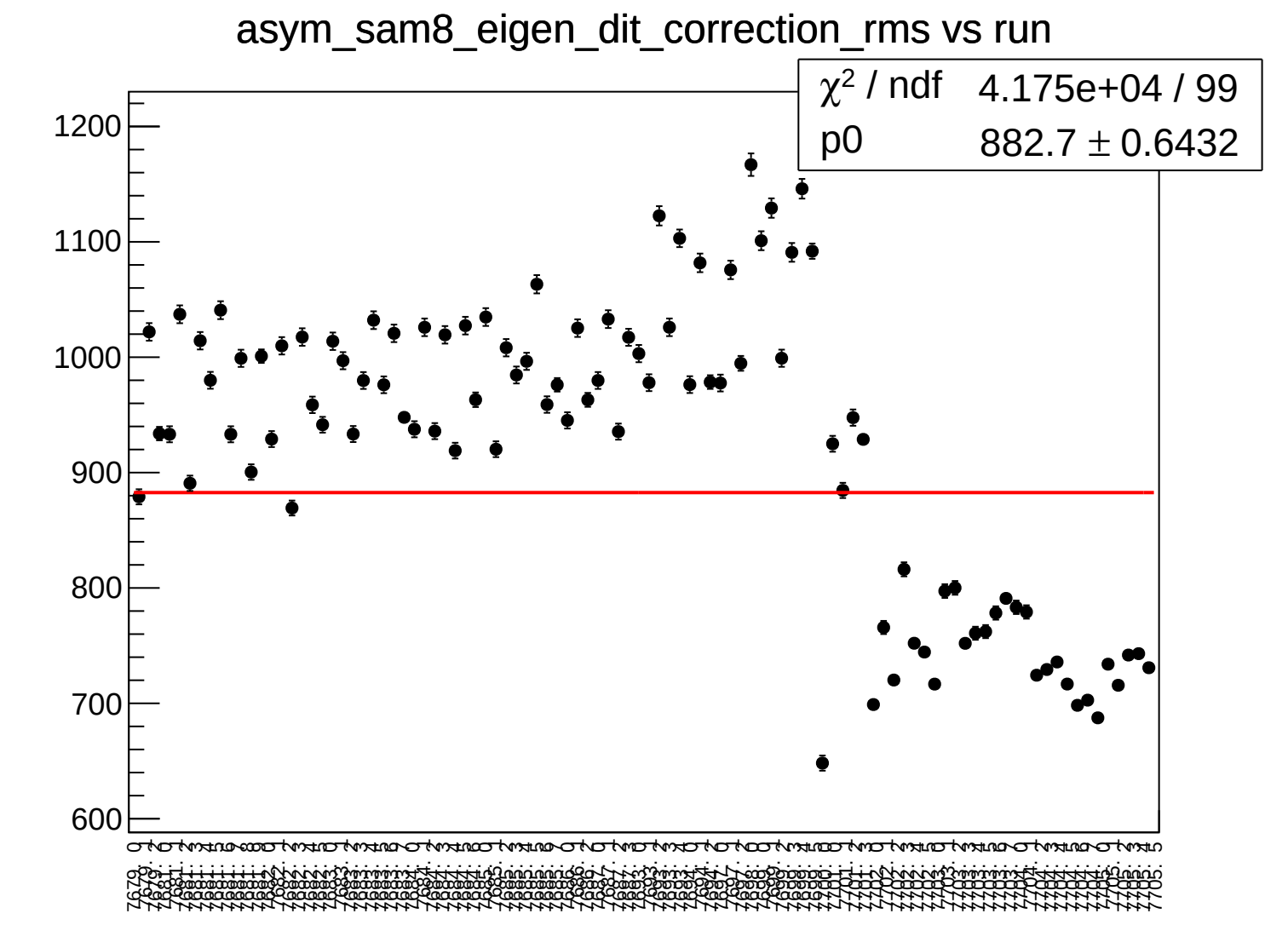

eigen_dit_asym_sam8_mean vs run
χ² / ndf 89.1 / 99
p0 77.25 ± 82.52
pull
Entries 100
Mean 430.6
Std Dev 0

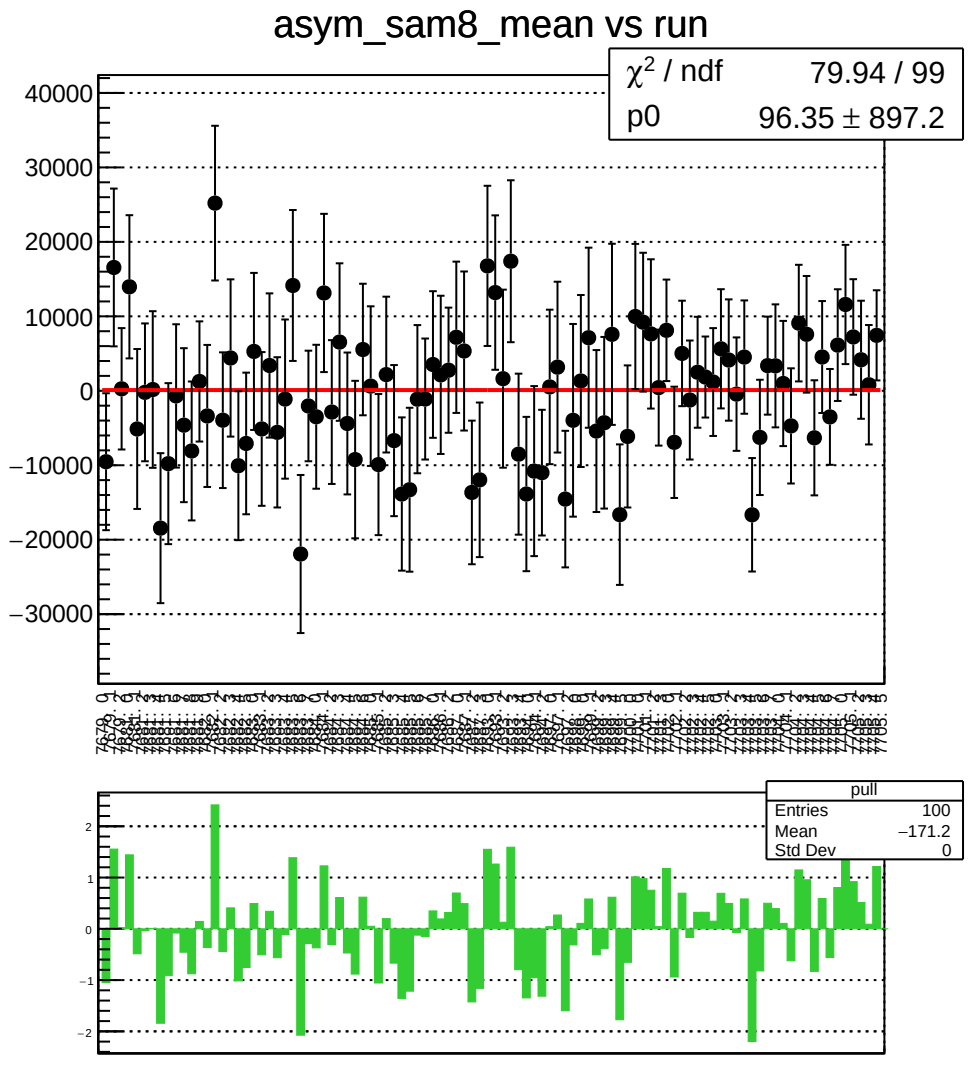

pull1D
Entries 100
Mean 0.007897
Std Dev 0.9439

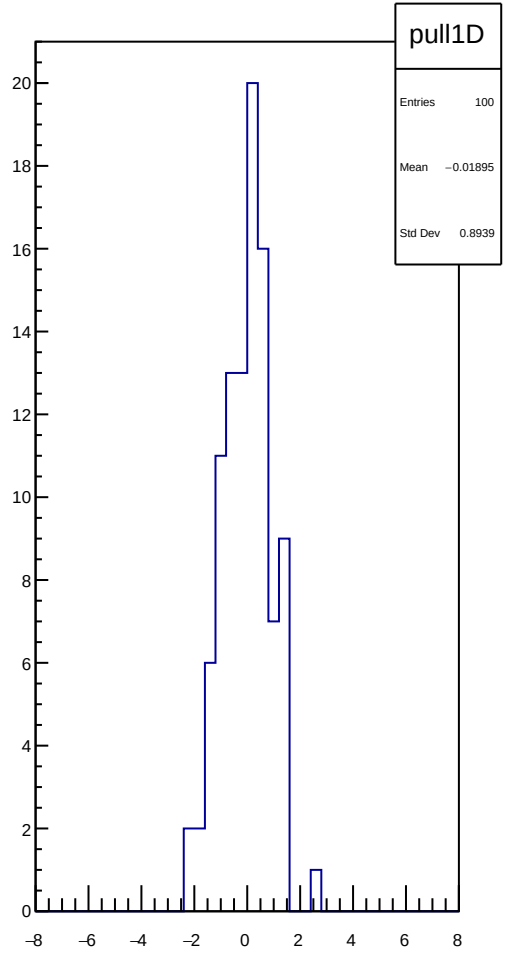

eigen_dit_asym_sam8_rms vs run
χ^2 / ndf 8633 / 99
p0 80.78 ± 0.05835
150
140
130
120
110
100
90
80
70

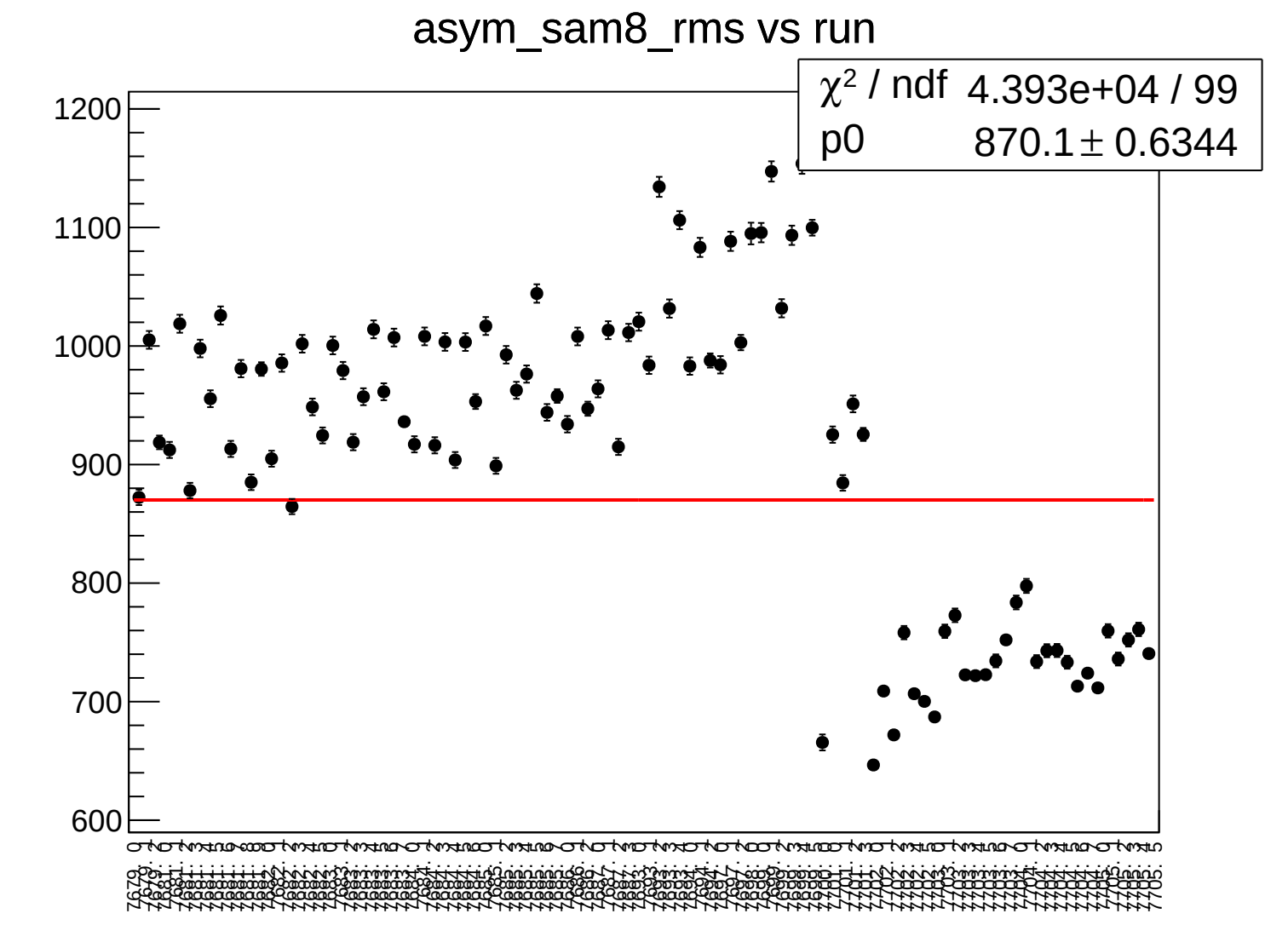

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 82.2 / 99
p0 −34.17 ± 909.6
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 100
Mean −144.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

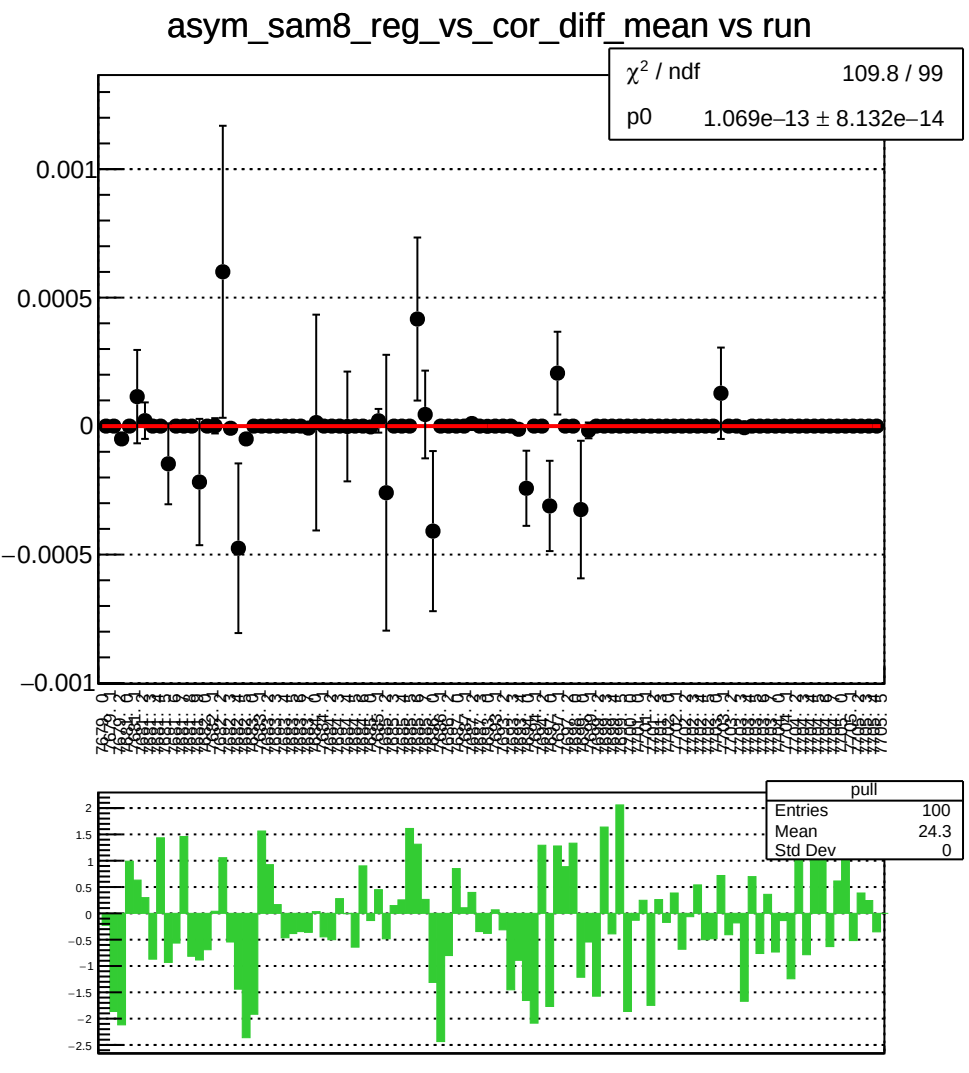

pull1D
Entries 100
Mean 0.02018
Std Dev 0.9064
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

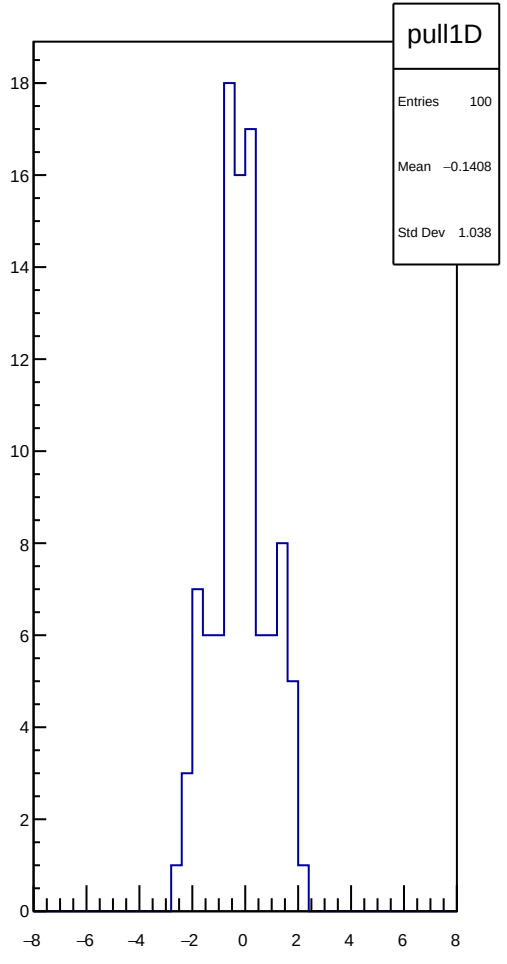

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 4.175e+04 / 99
p0 882.7 ± 0.6432
1200
1100
1000
900
800
700
600

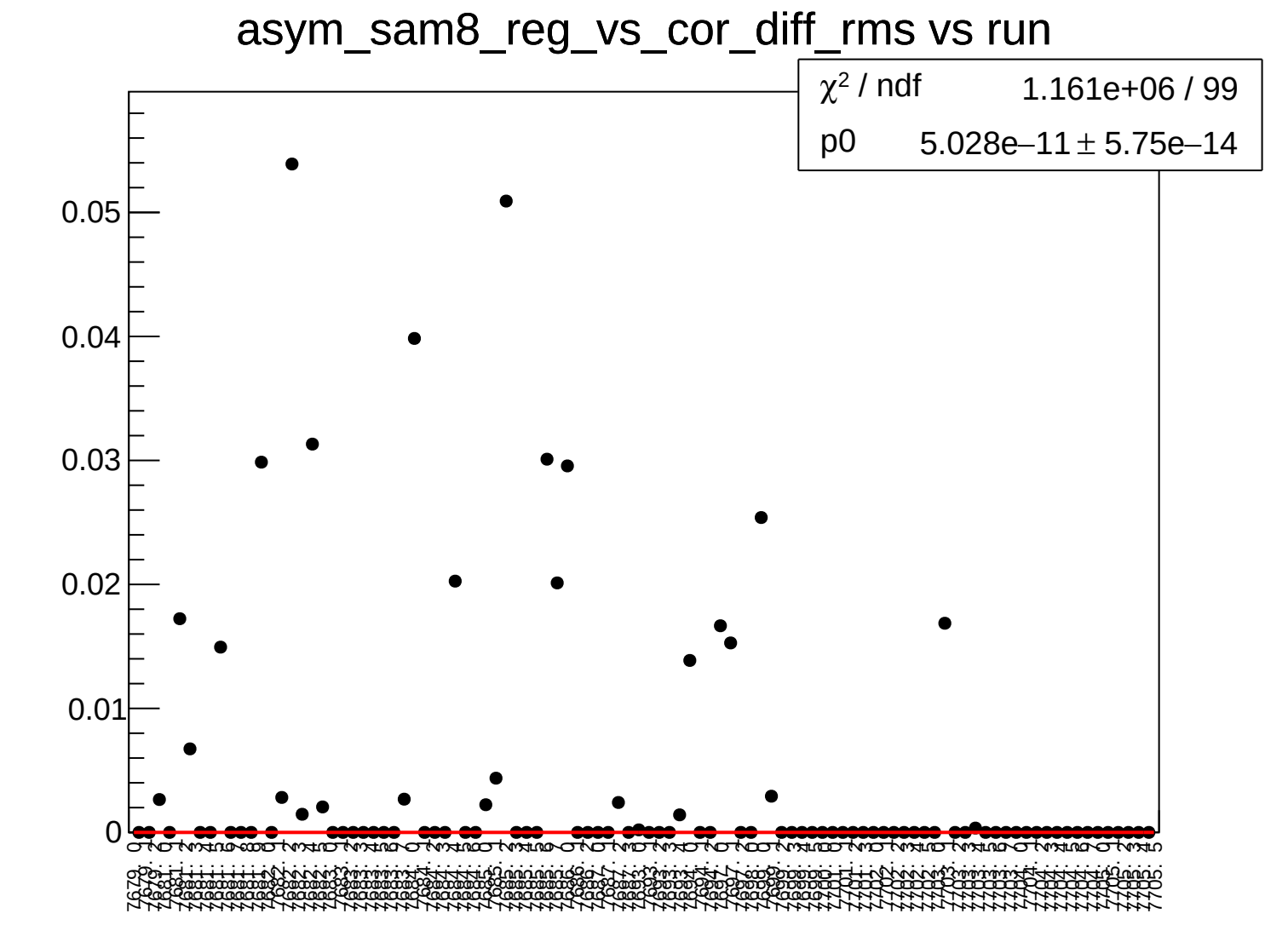

asym_sam8_mean vs run
χ² / ndf 79.94 / 99
p0 96.35 ± 897.2
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 100
Mean −171.2
Std Dev 0
2
1
0
−1
−2

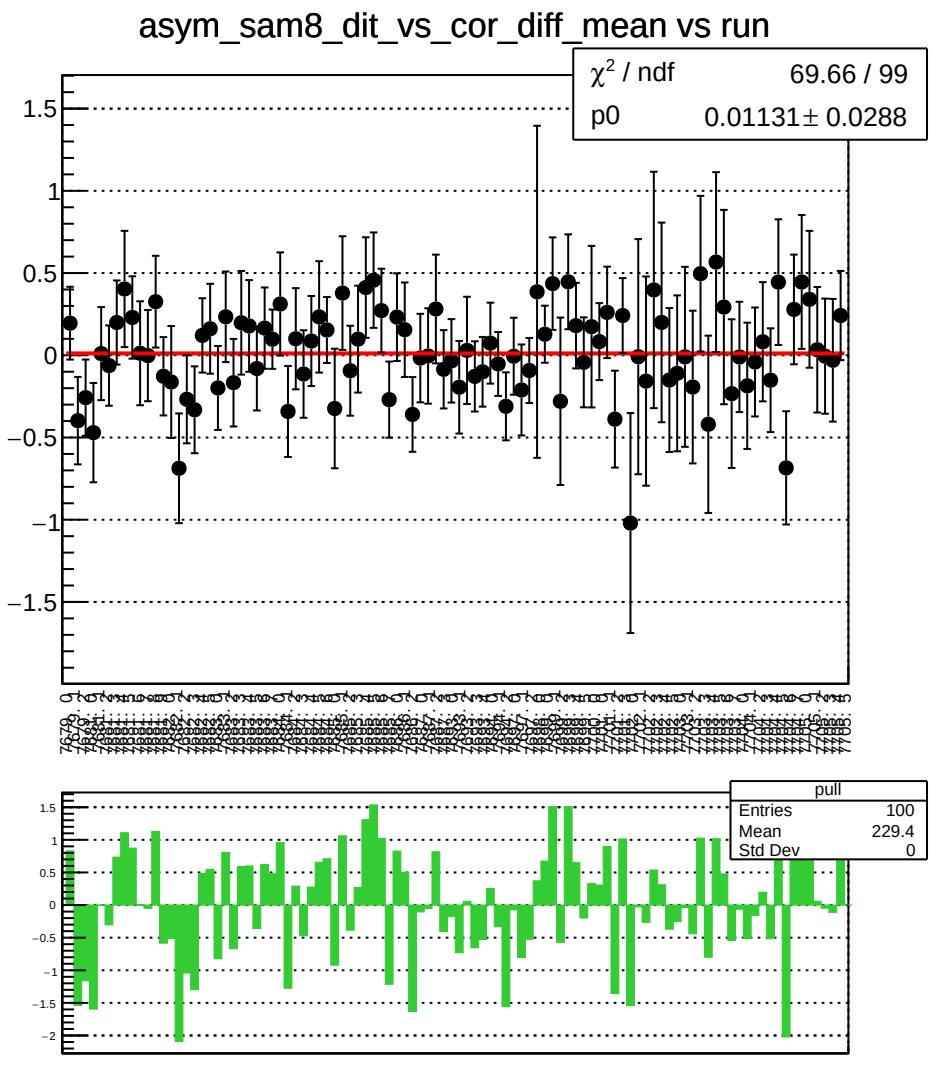

pull1D
Entries 100
Mean −0.01895
Std Dev 0.8939
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

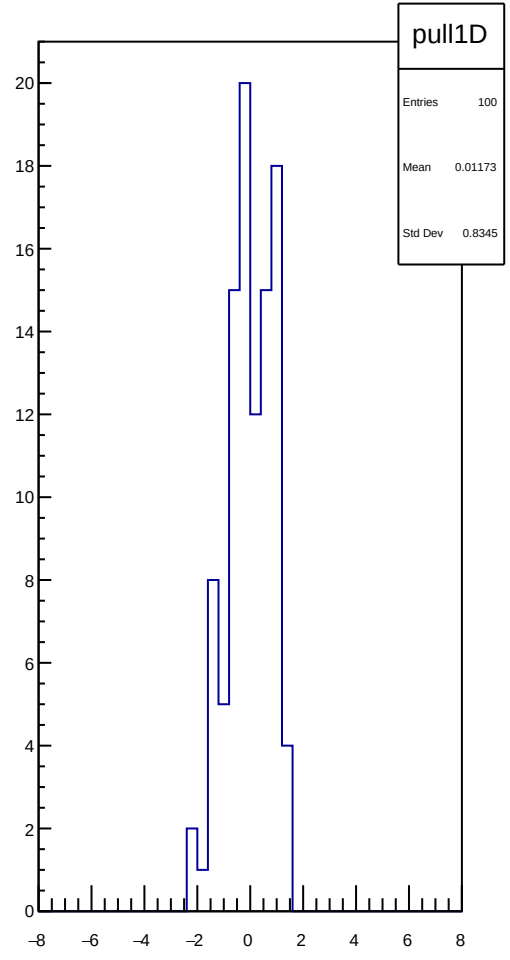

asym_sam8_rms vs run
χ² / ndf 4.393e+04 / 99
p0 870.1 ± 0.6344
1200
1100
1000
900
800
700
600

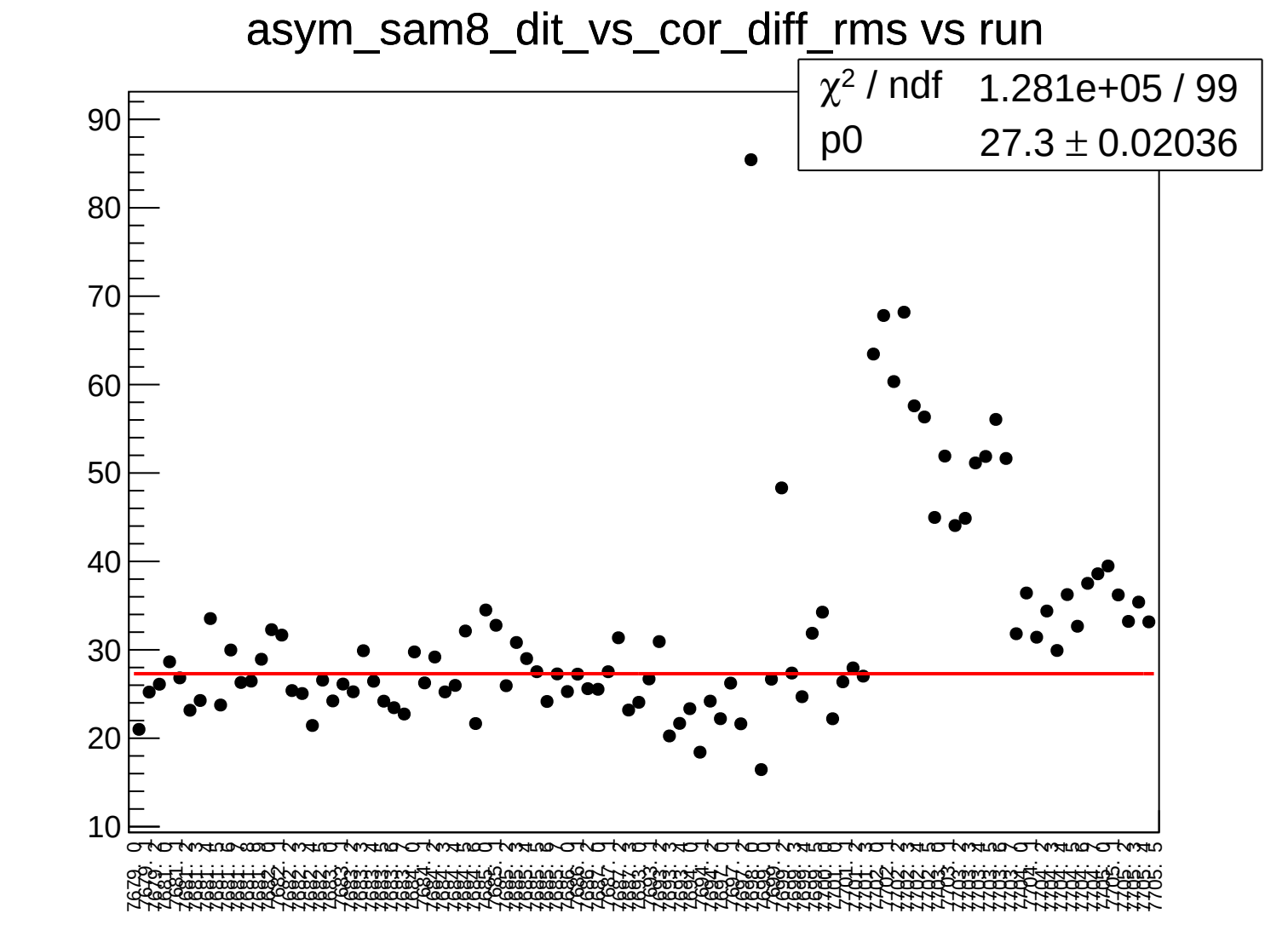

asym_sam8_reg_vs_cor_diff_mean vs run
χ² / ndf 109.8 / 99
p0 1.069e−13 ± 8.132e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 100
Mean 24.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

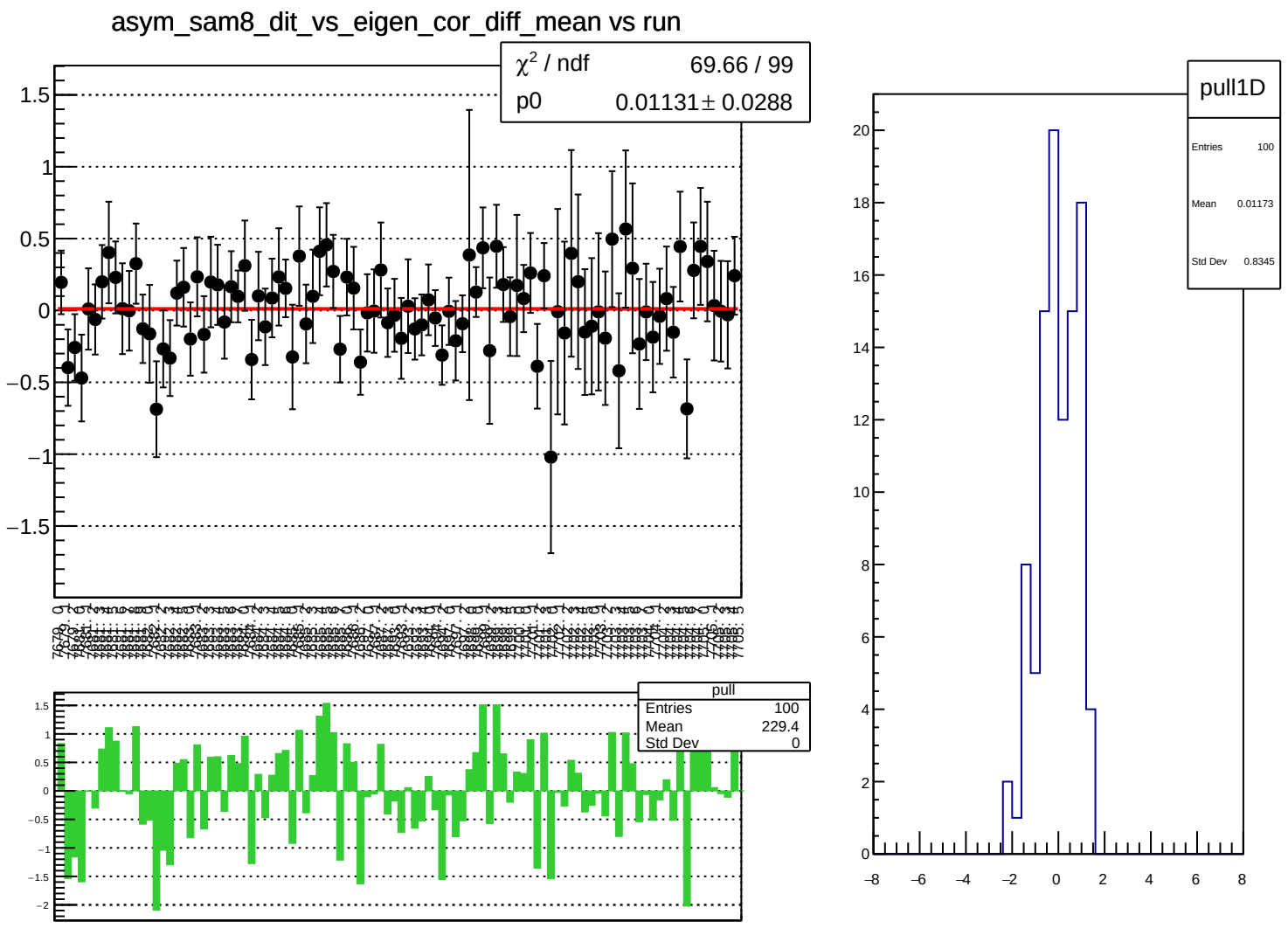

pull1D
Entries 100
Mean −0.1408
Std Dev 1.038
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

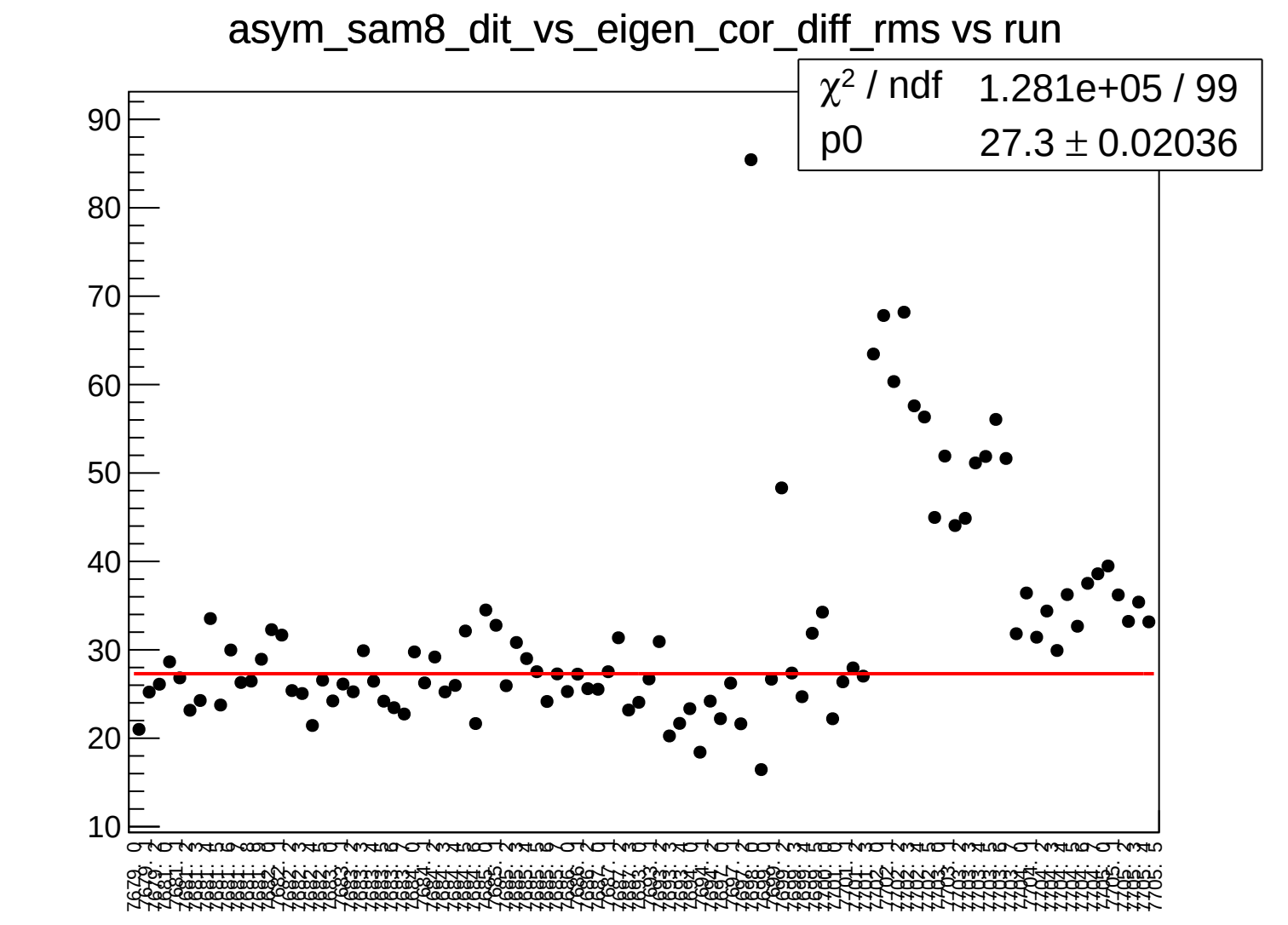

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 1.161e+06 / 99
p0 5.028e−11 ± 5.75e−14
0.05
0.04
0.03
0.02
0.01
0

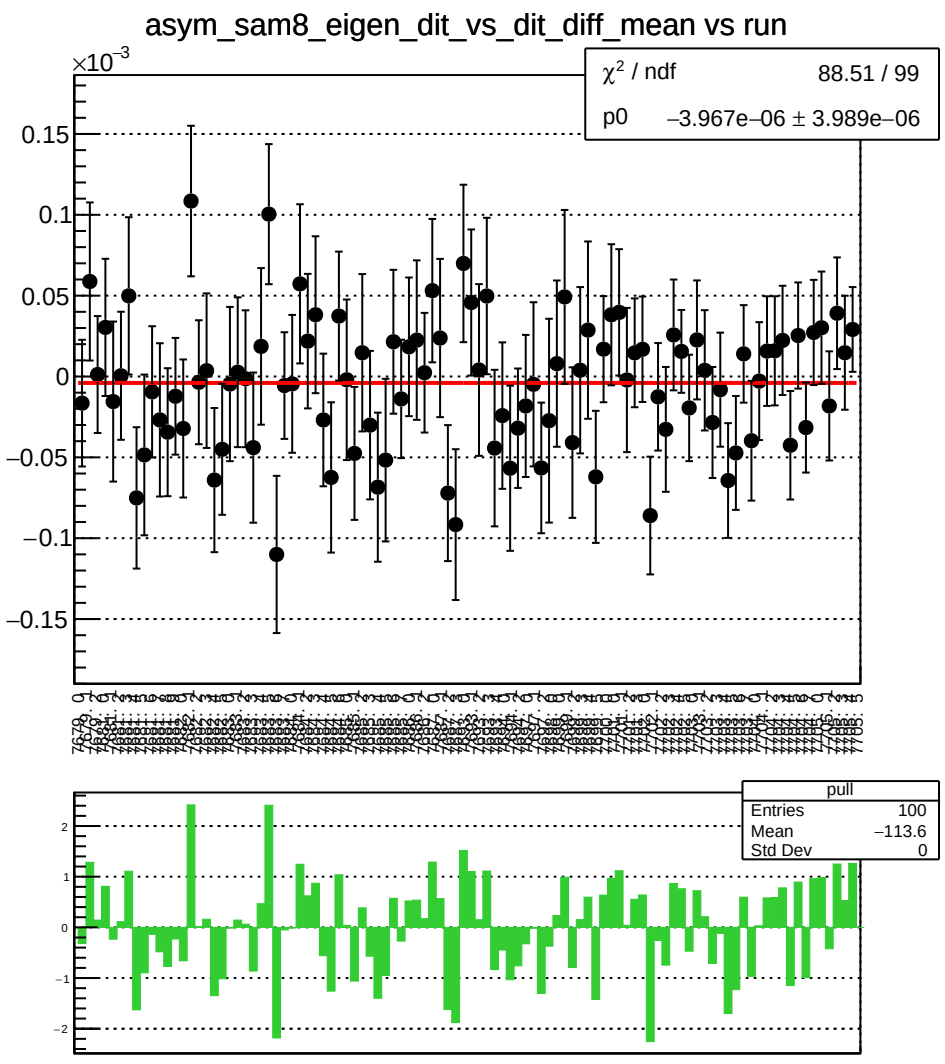

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 69.66 / 99
p0 0.01131 ± 0.0288
pull
Entries 100
Mean 229.4
Std Dev 0

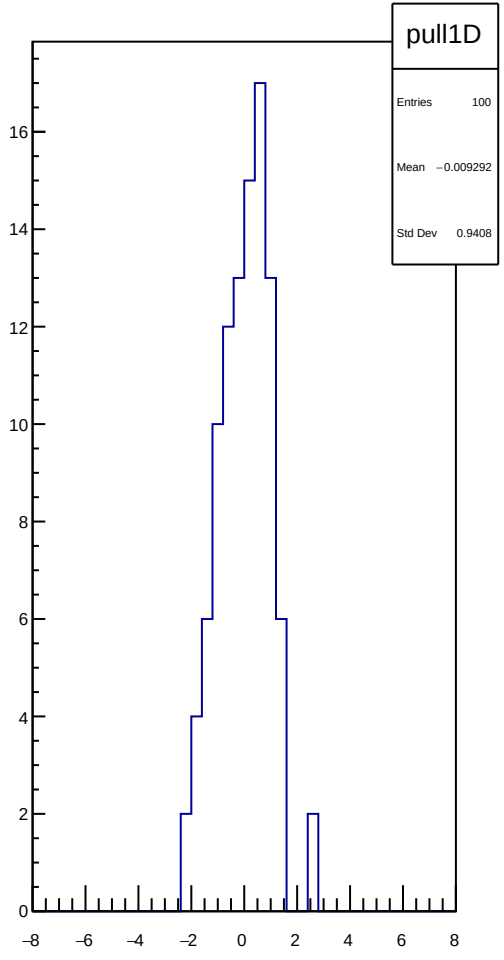

pull1D
Entries 100
Mean 0.01173
Std Dev 0.8345

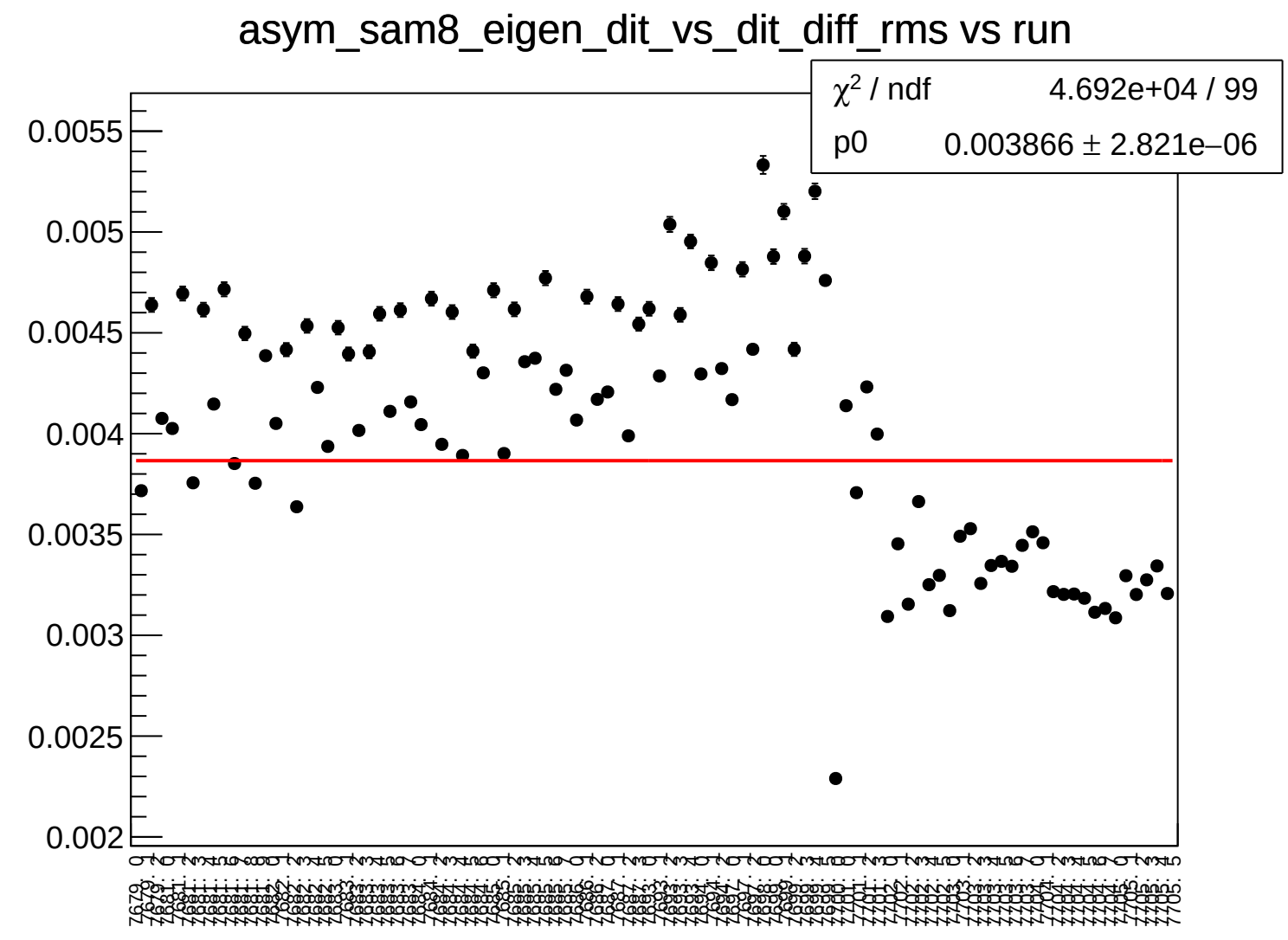

asym_sam8_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.281e+05 / 99
p0 27.3 ± 0.02036
90
80
70
60
50
40
30
20
10

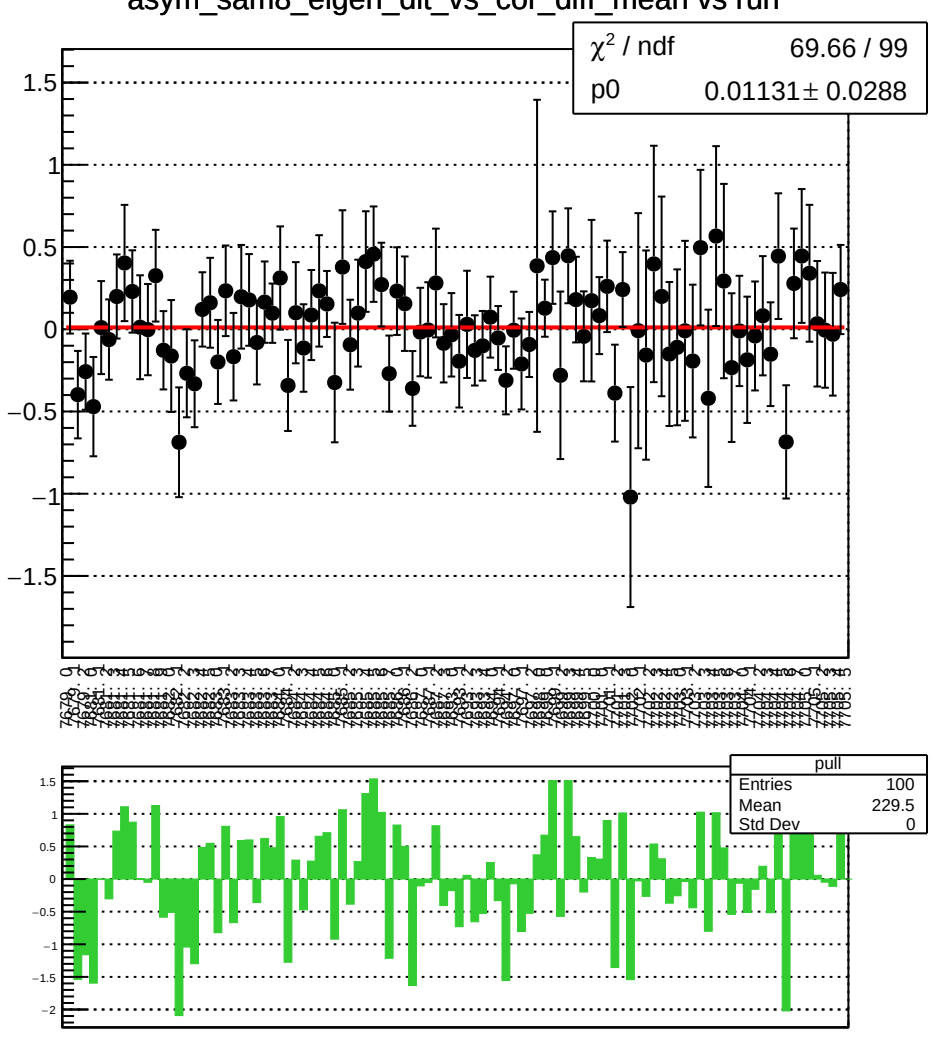

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.66 / 99
p0 0.01131 ± 0.0288
pull
Entries 100
Mean 229.4
Std Dev 0
pull1D
Entries 100
Mean 0.01173
Std Dev 0.8345

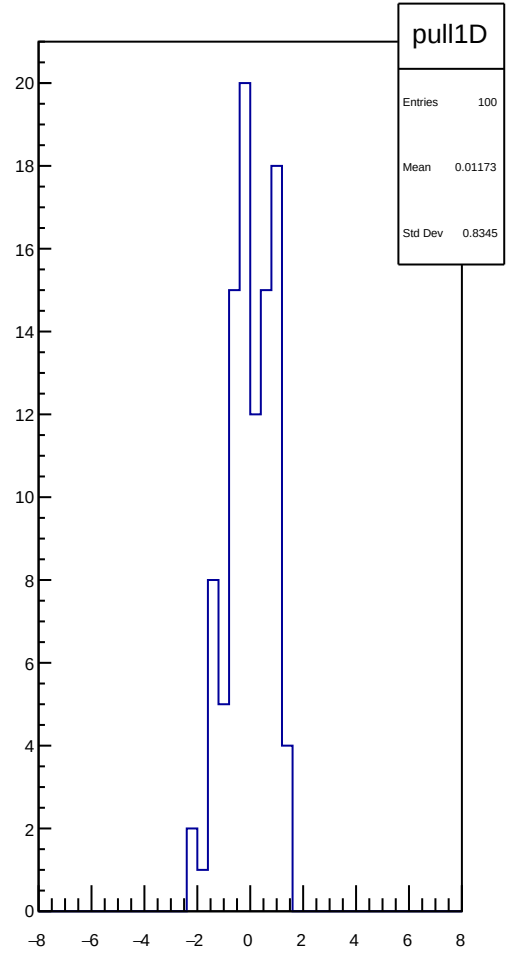

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.281e+05 / 99
p0 27.3 ± 0.02036
90
80
70
60
50
40
30
20
10

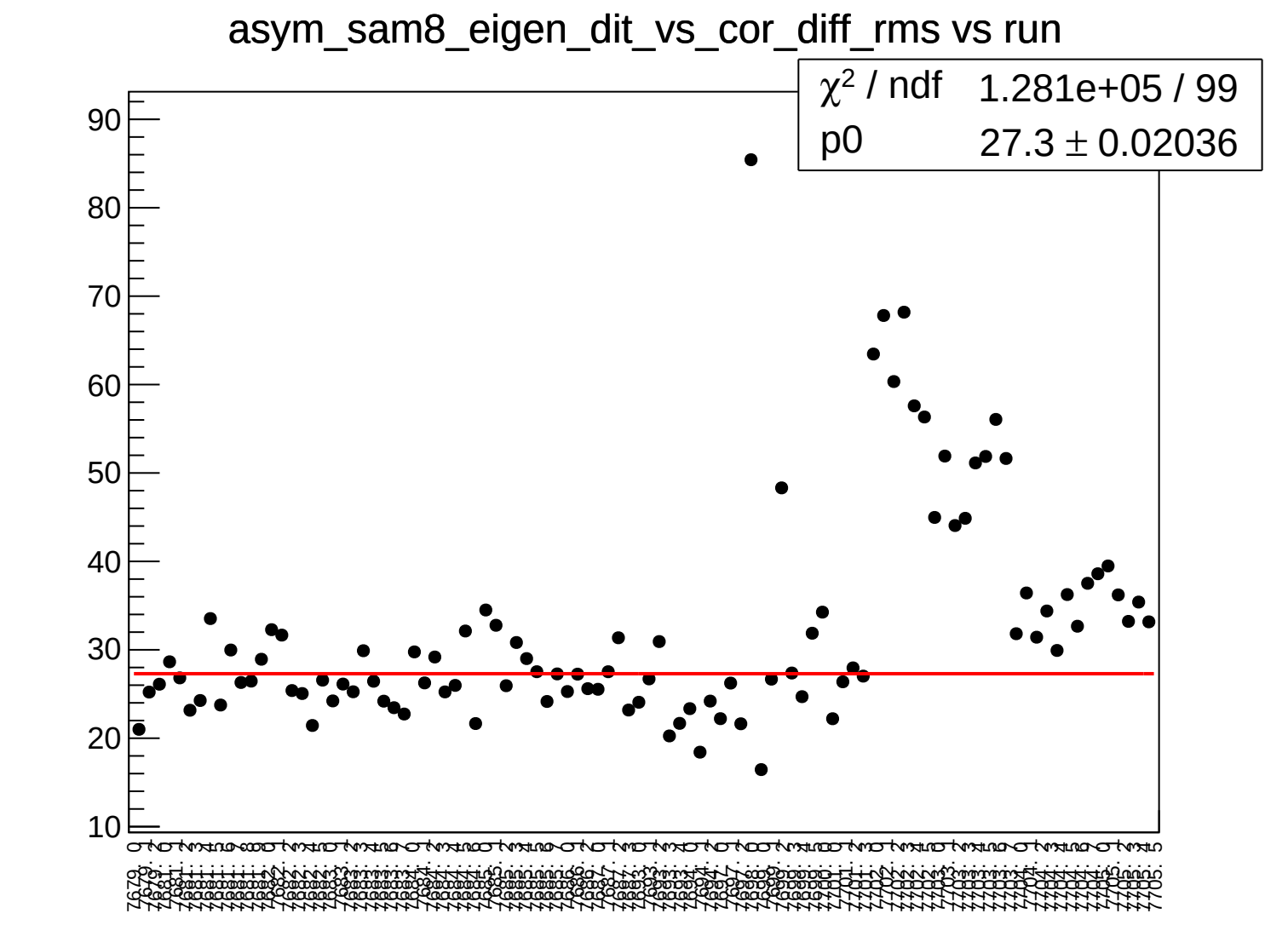

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.51 / 99
p0 −3.967e−06 ± 3.989e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 100
Mean −113.6
Std Dev 0
2
1
0
−1
−2

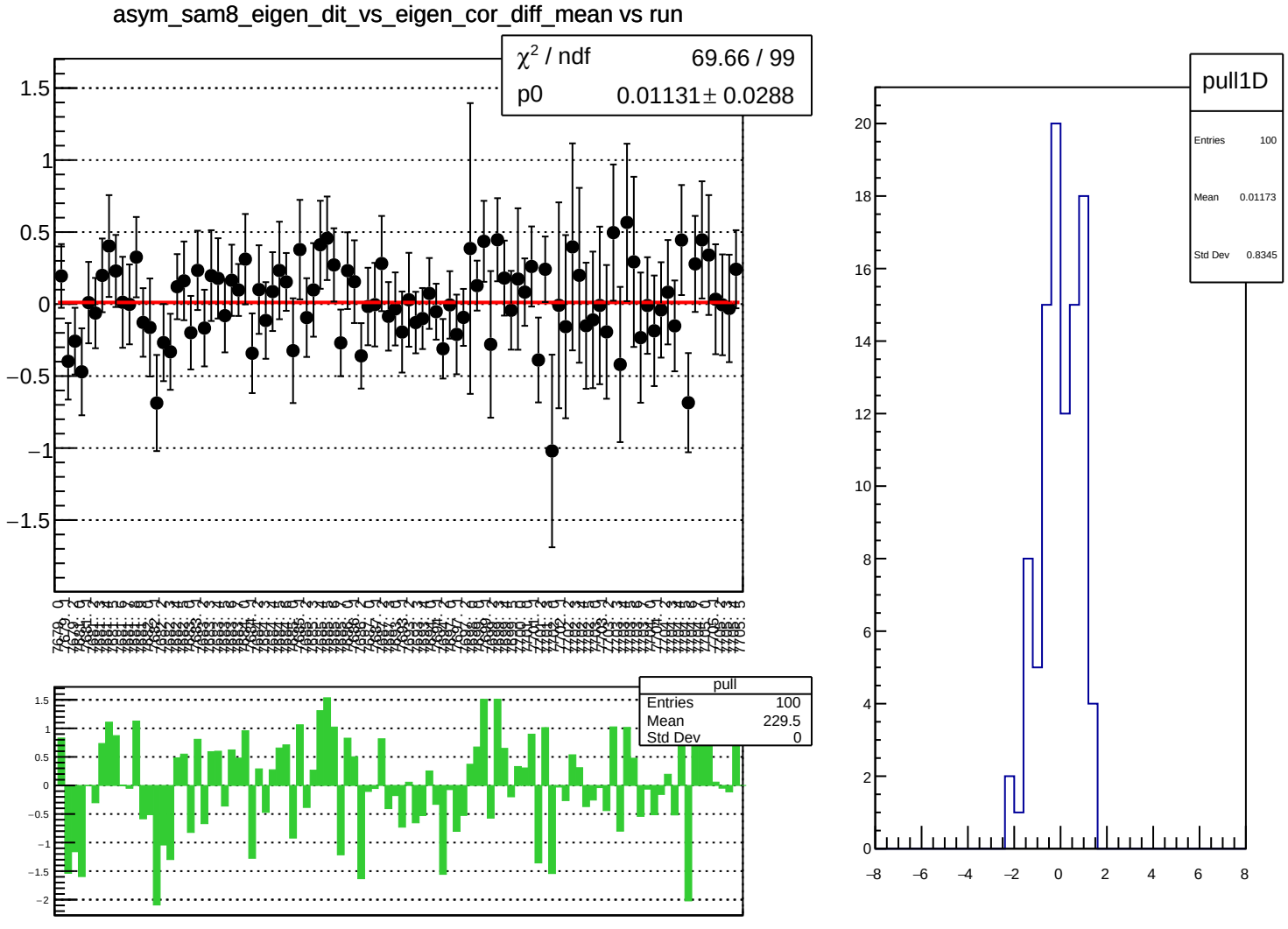

pull1D
Entries 100
Mean −0.009292
Std Dev 0.9408
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

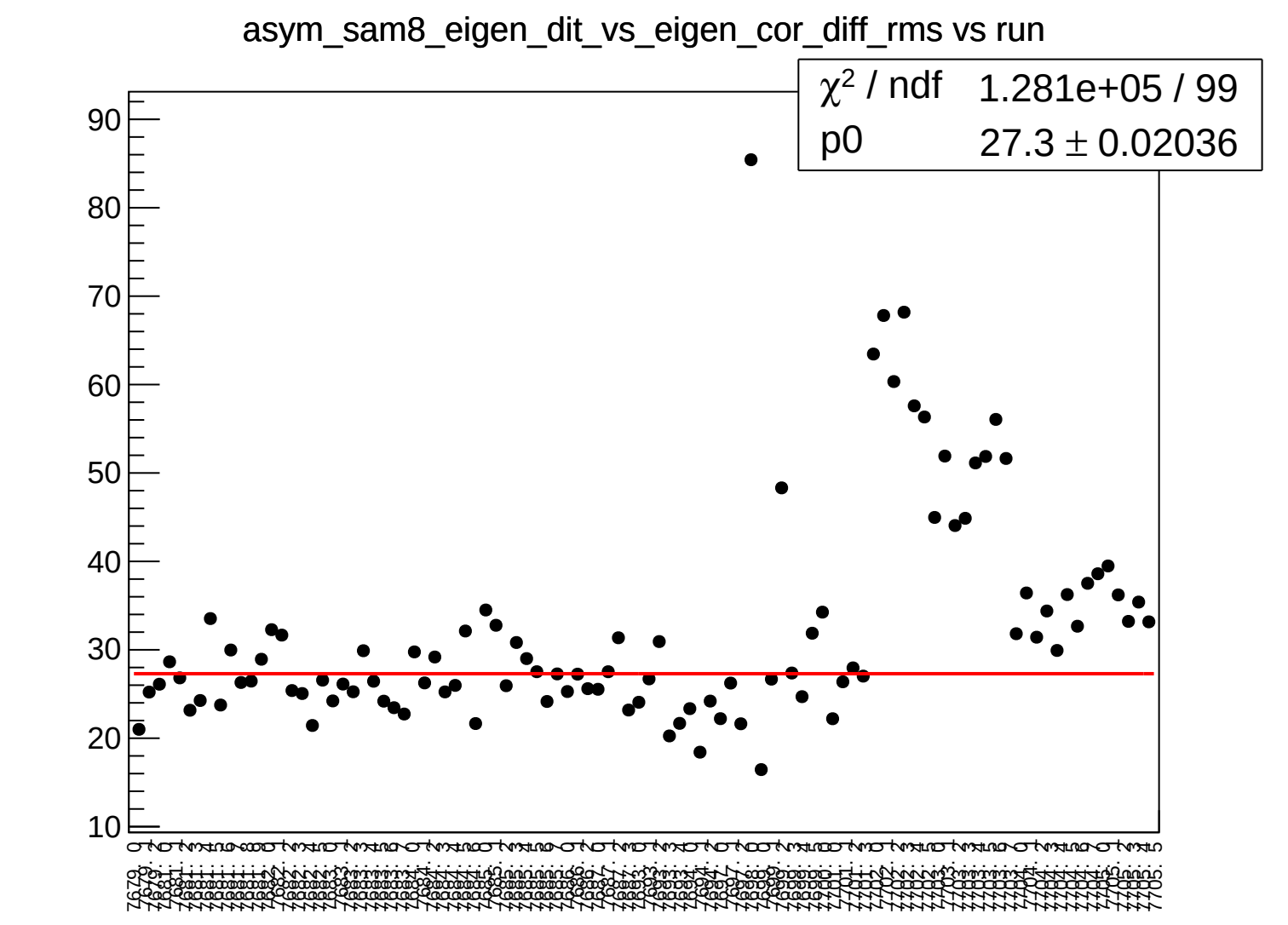

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.692e+04 / 99
p0 0.003866 ± 2.821e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

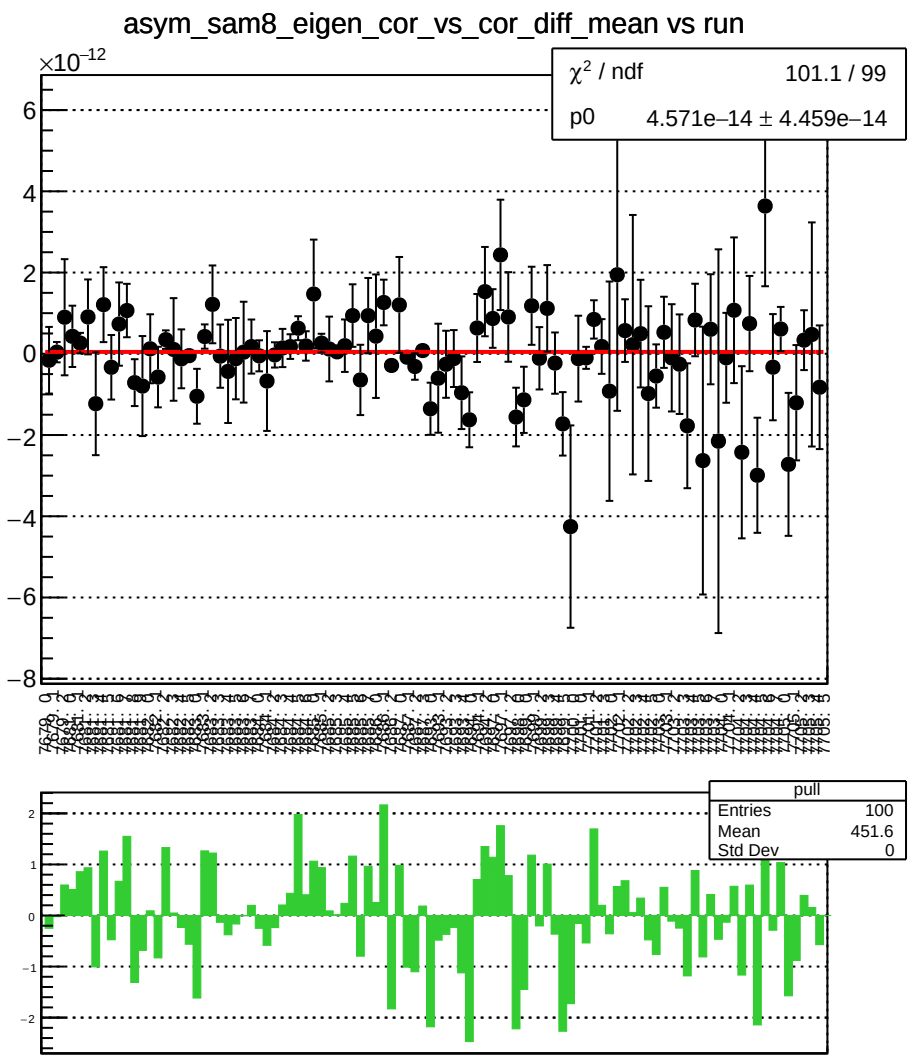

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.66 / 99
p0 0.01131 ± 0.0288
pull
Entries 100
Mean 229.5
Std Dev 0

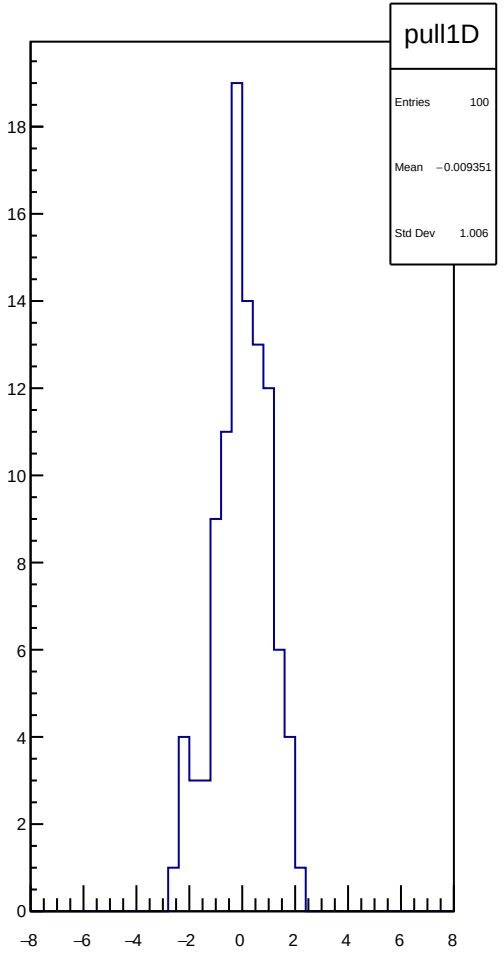

pull1D
Entries 100
Mean 0.01173
Std Dev 0.8345

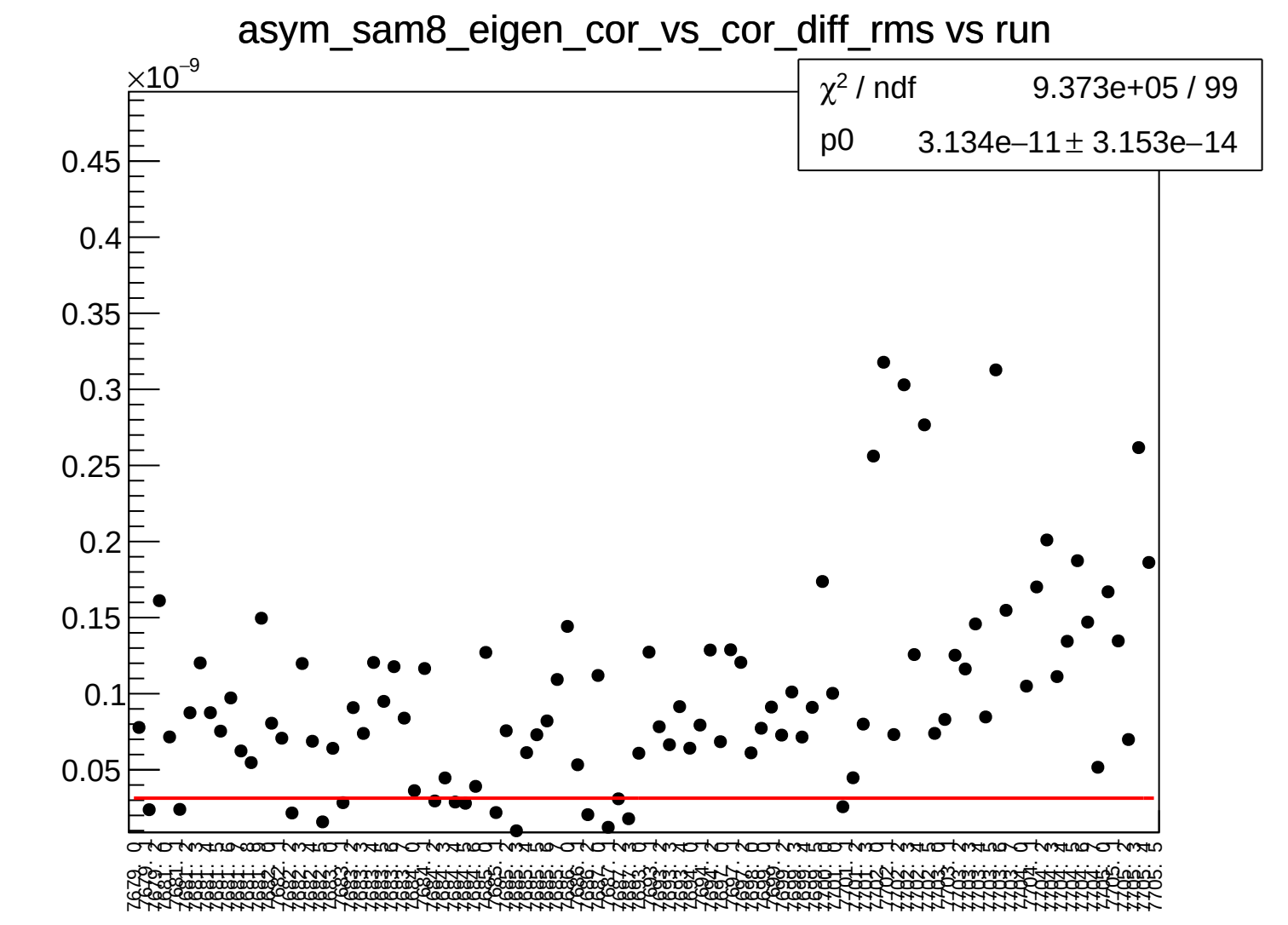

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.281e+05 / 99
p0 27.3 ± 0.02036
90
80
70
60
50
40
30
20
10

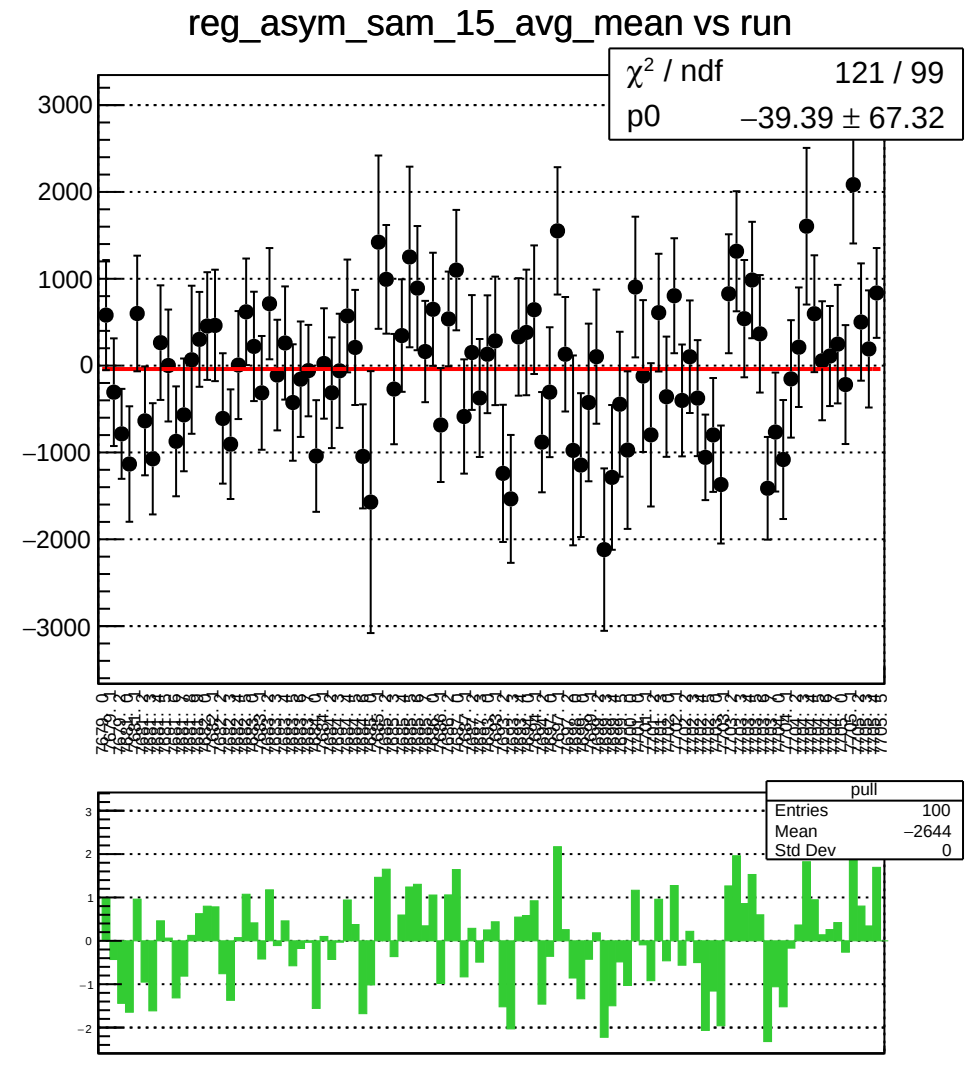

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.66 / 99
p0 0.01131 ± 0.0288
pull
Entries 100
Mean 229.5
Std Dev 0
pull1D
Entries 100
Mean 0.01173
Std Dev 0.8345

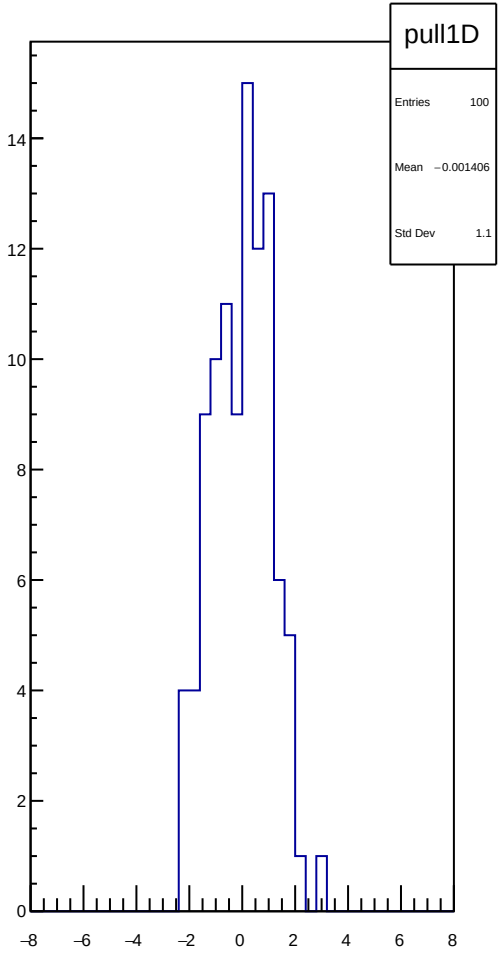

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.281e+05 / 99
p0 27.3 ± 0.02036
90
80
70
60
50
40
30
20
10

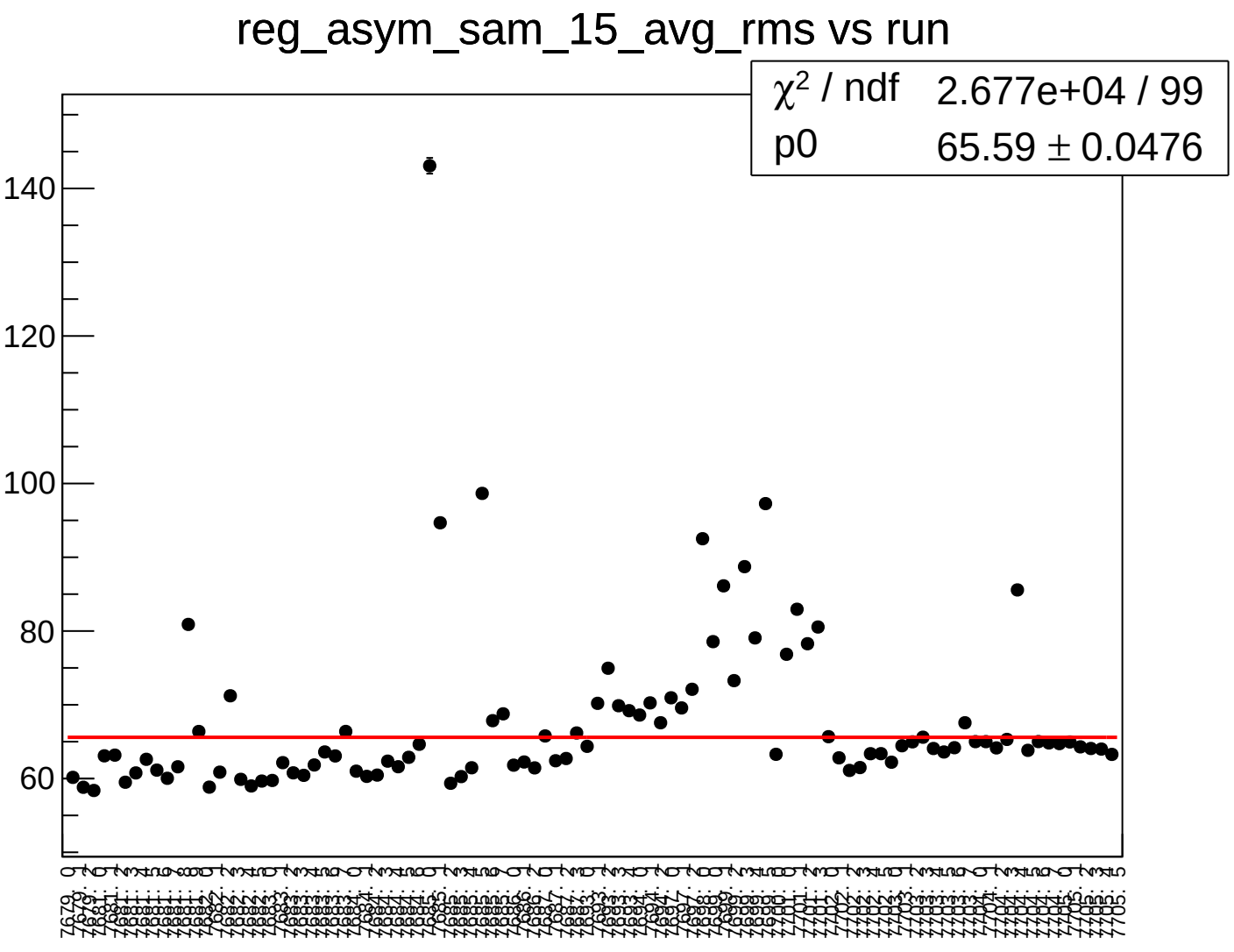

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.1 / 99
p0 4.571e−14 ± 4.459e−14
pull
Entries 100
Mean 451.6
Std Dev 0

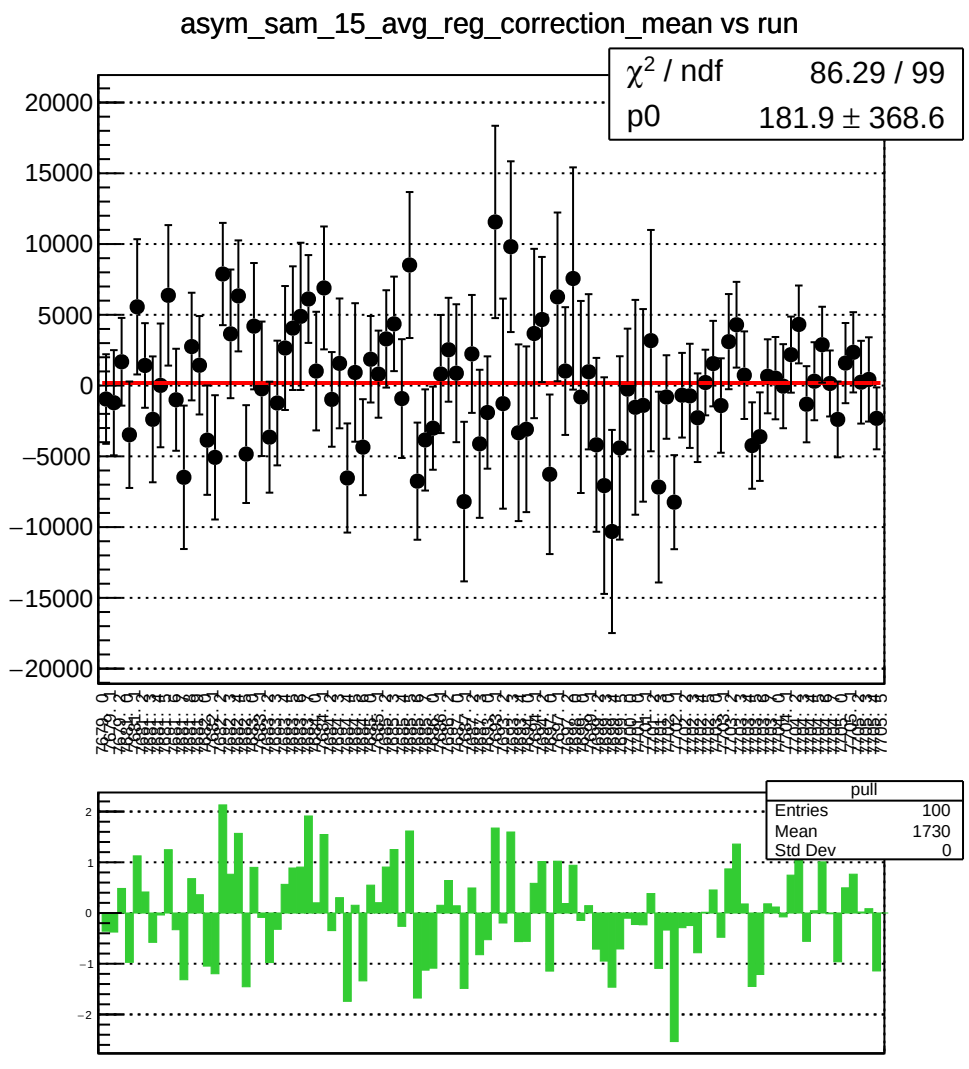

pull1D
Entries 100
Mean −0.009351
Std Dev 1.006

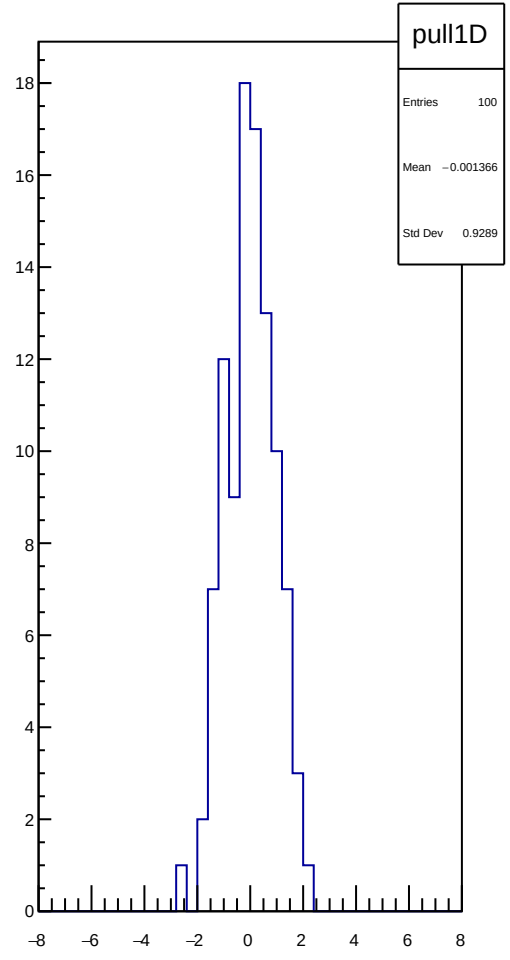

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.373e+05 / 99
p0 3.134e−11 ± 3.153e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

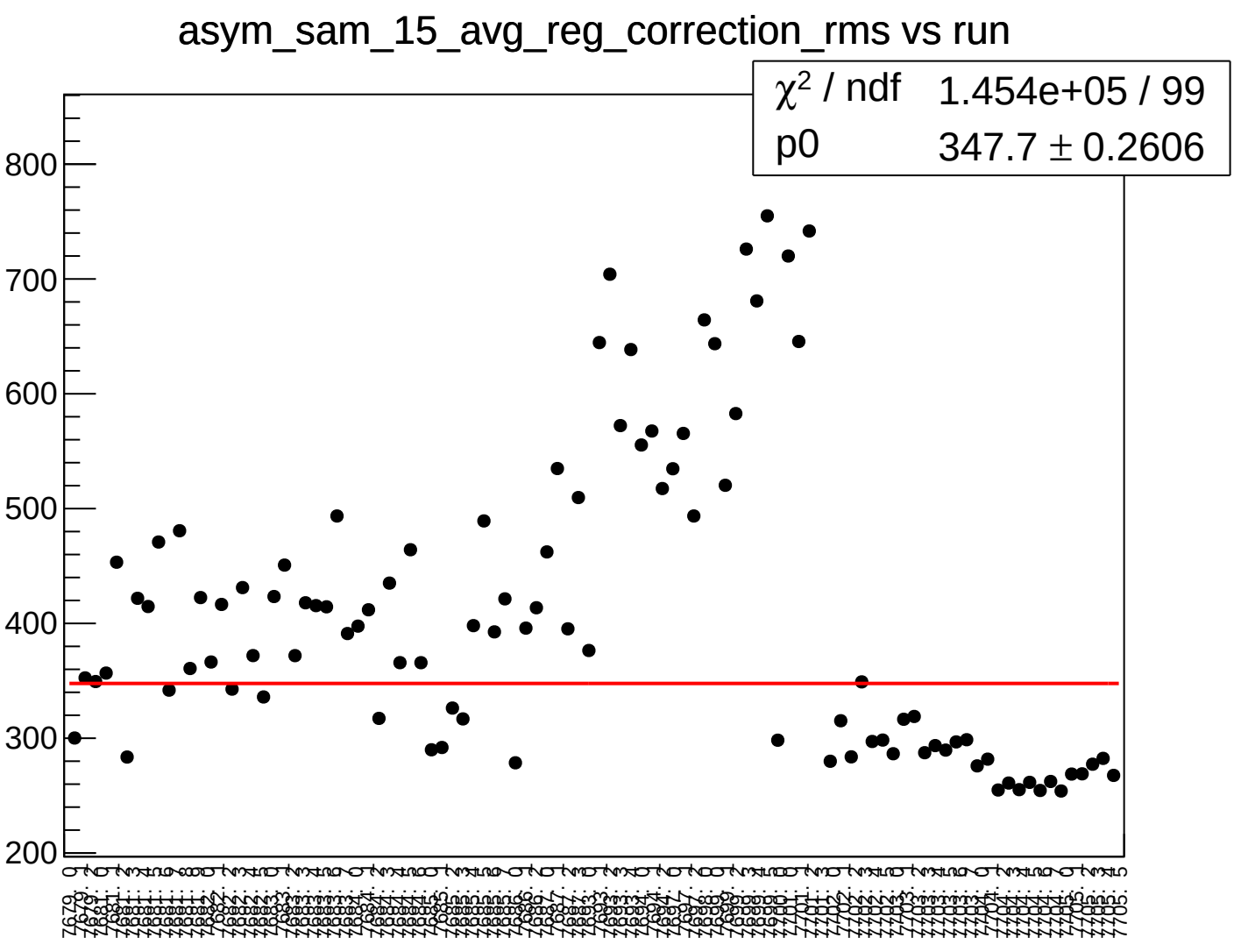

reg_asym_sam_15_avg_mean vs run
χ² / ndf 121 / 99
p0 −39.39 ± 67.32
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 100
Mean −2644
Std Dev 0
3
2
1
0
−1
−2

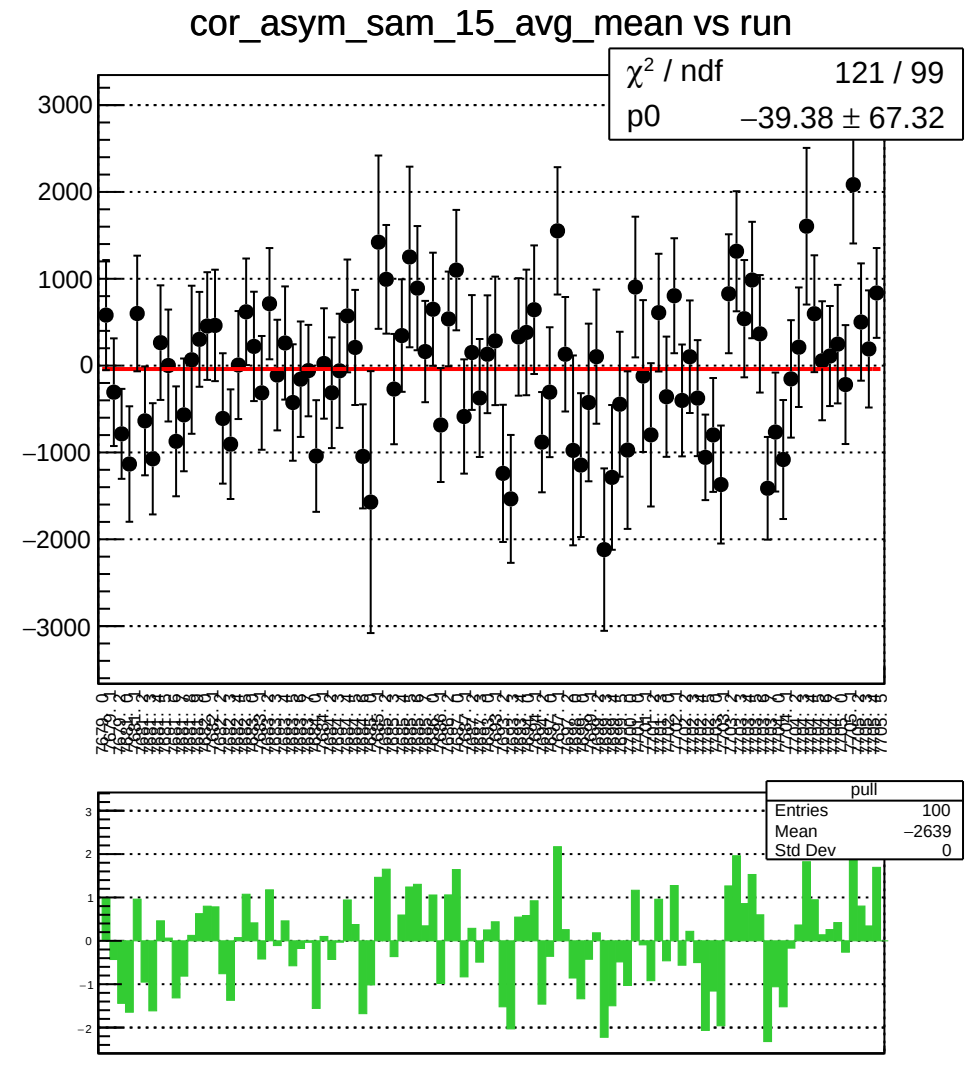

pull1D
Entries 100
Mean −0.001406
Std Dev 1.1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

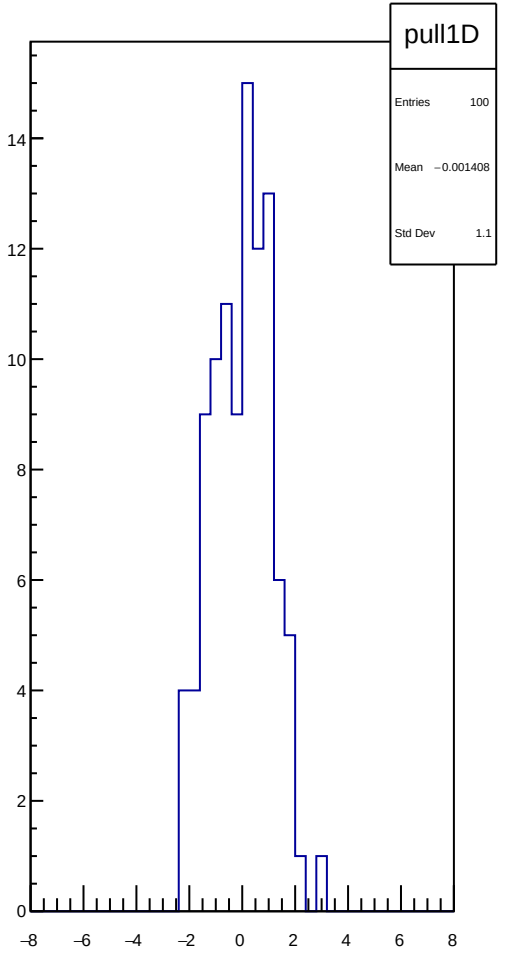

reg_asym_sam_15_avg_rms vs run
χ² / ndf 2.677e+04 / 99
p0 65.59 ± 0.0476
140
120
100
80
60

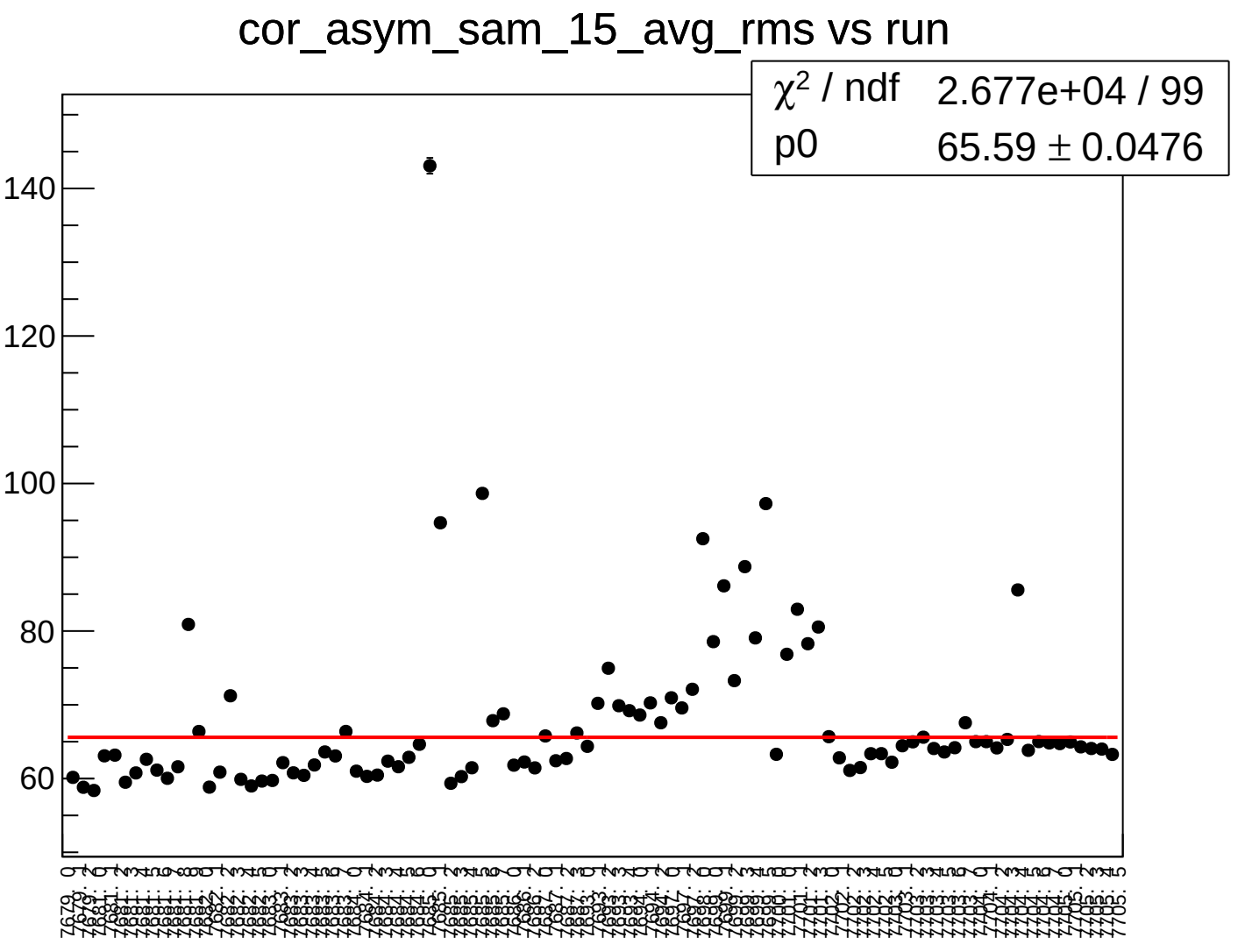

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 86.29 / 99
p0 181.9 ± 368.6
pull
Entries 100
Mean 1730
Std Dev 0

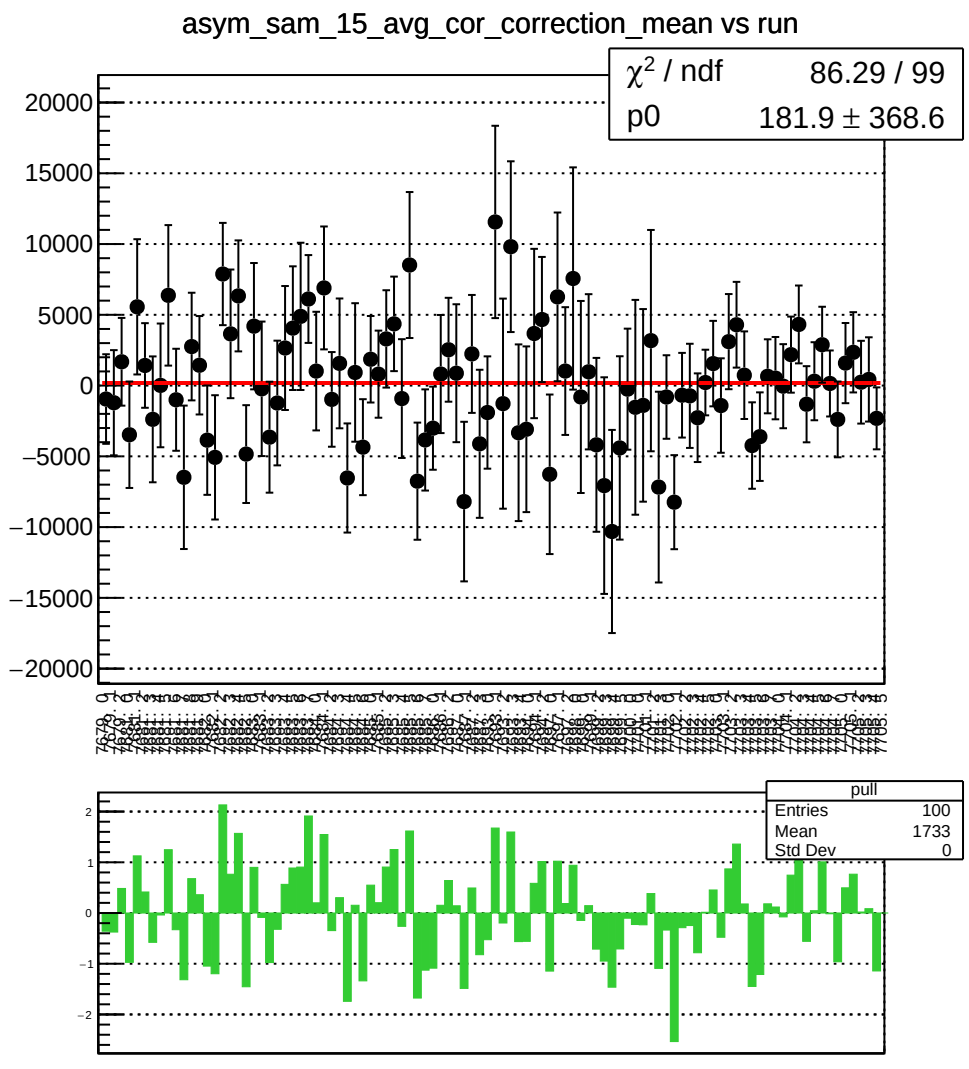

pull1D
Entries 100
Mean −0.001366
Std Dev 0.9289

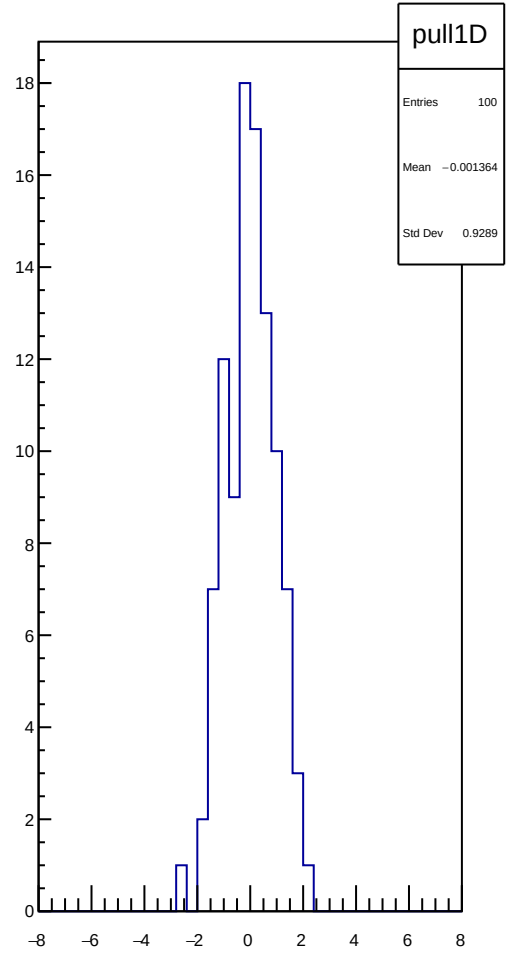

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 1.454e+05 / 99
p0 347.7 ± 0.2606
800
700
600
500
400
300
200

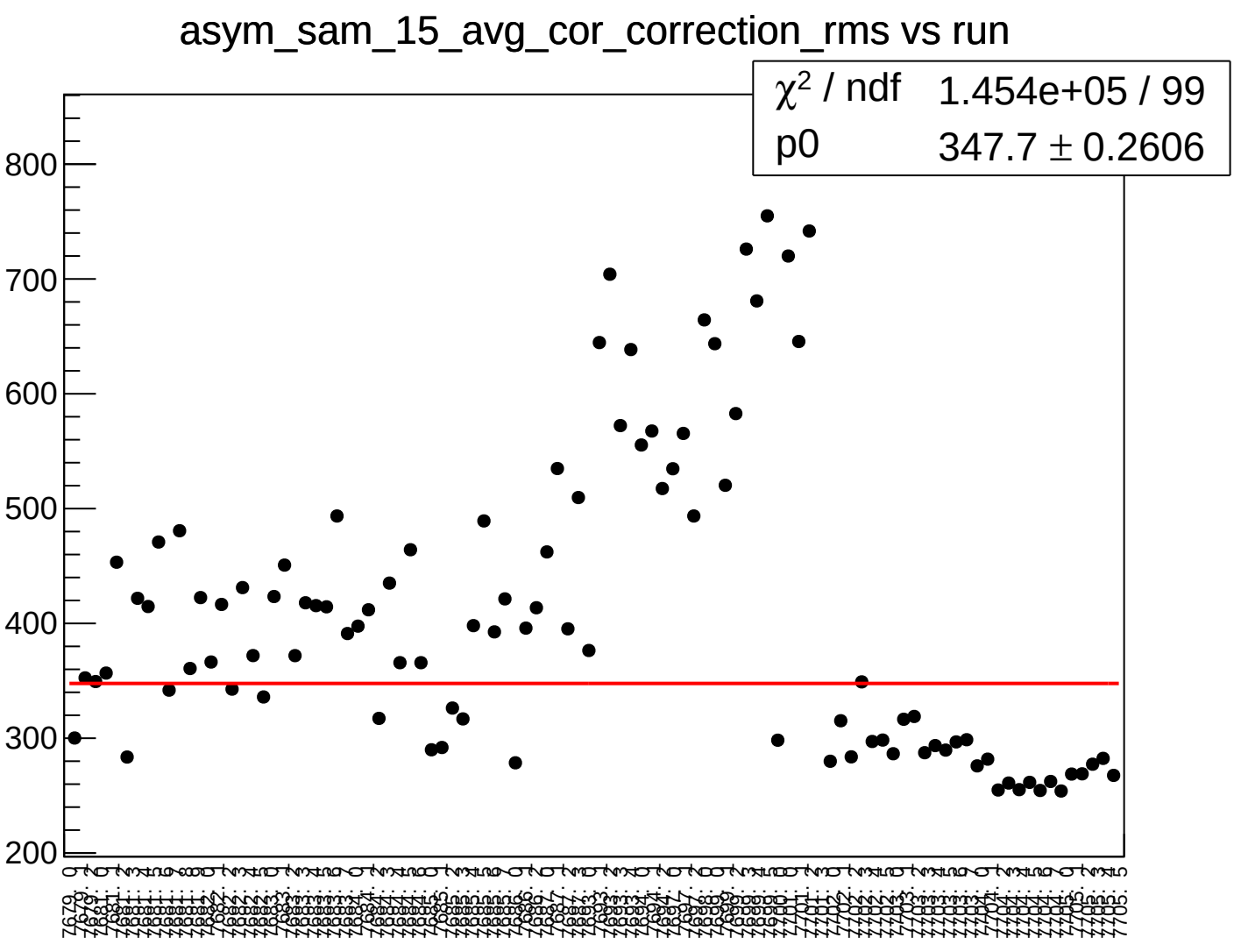

cor_asym_sam_15_avg_mean vs run
χ² / ndf 121 / 99
p0 −39.38 ± 67.32
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 100
Mean −2639
Std Dev 0
3
2
1
0
−1
−2

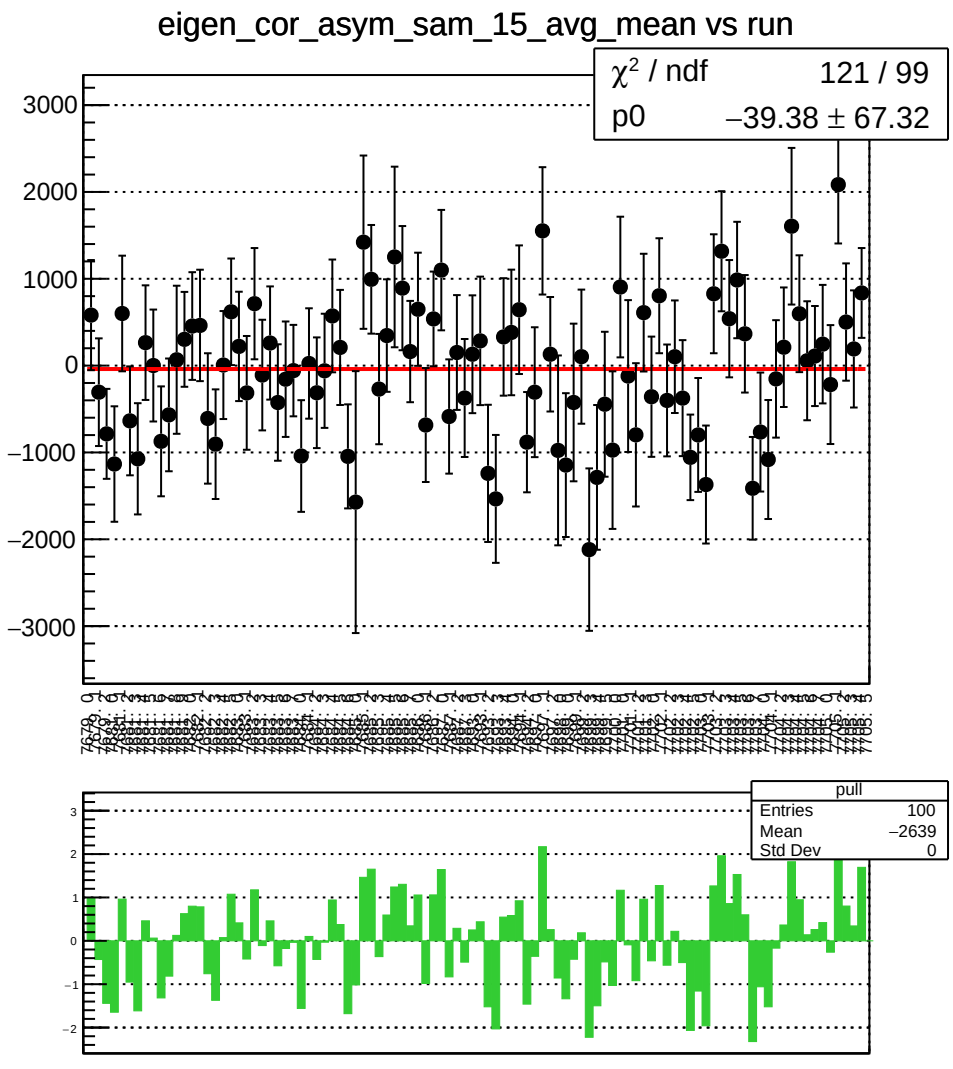

pull1D
Entries 100
Mean −0.001408
Std Dev 1.1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

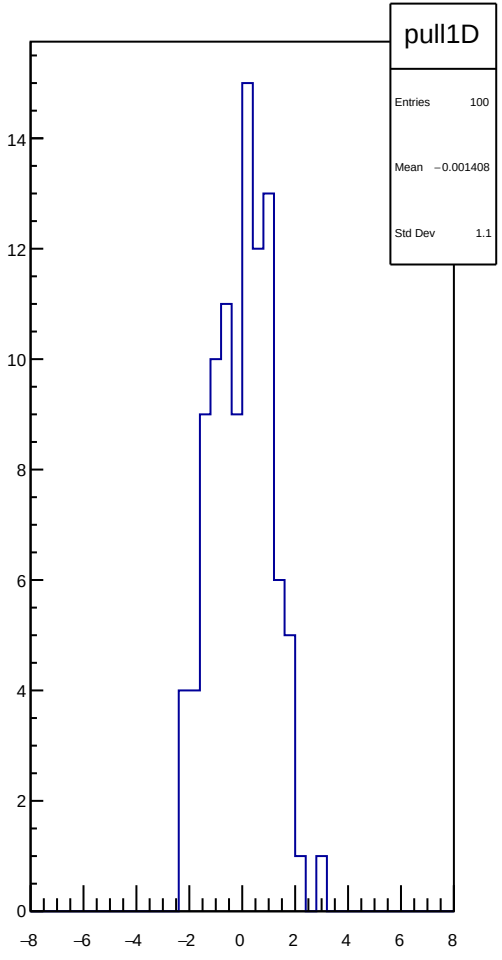

cor_asym_sam_15_avg_rms vs run
χ² / ndf 2.677e+04 / 99
p0 65.59 ± 0.0476
140
120
100
80
60

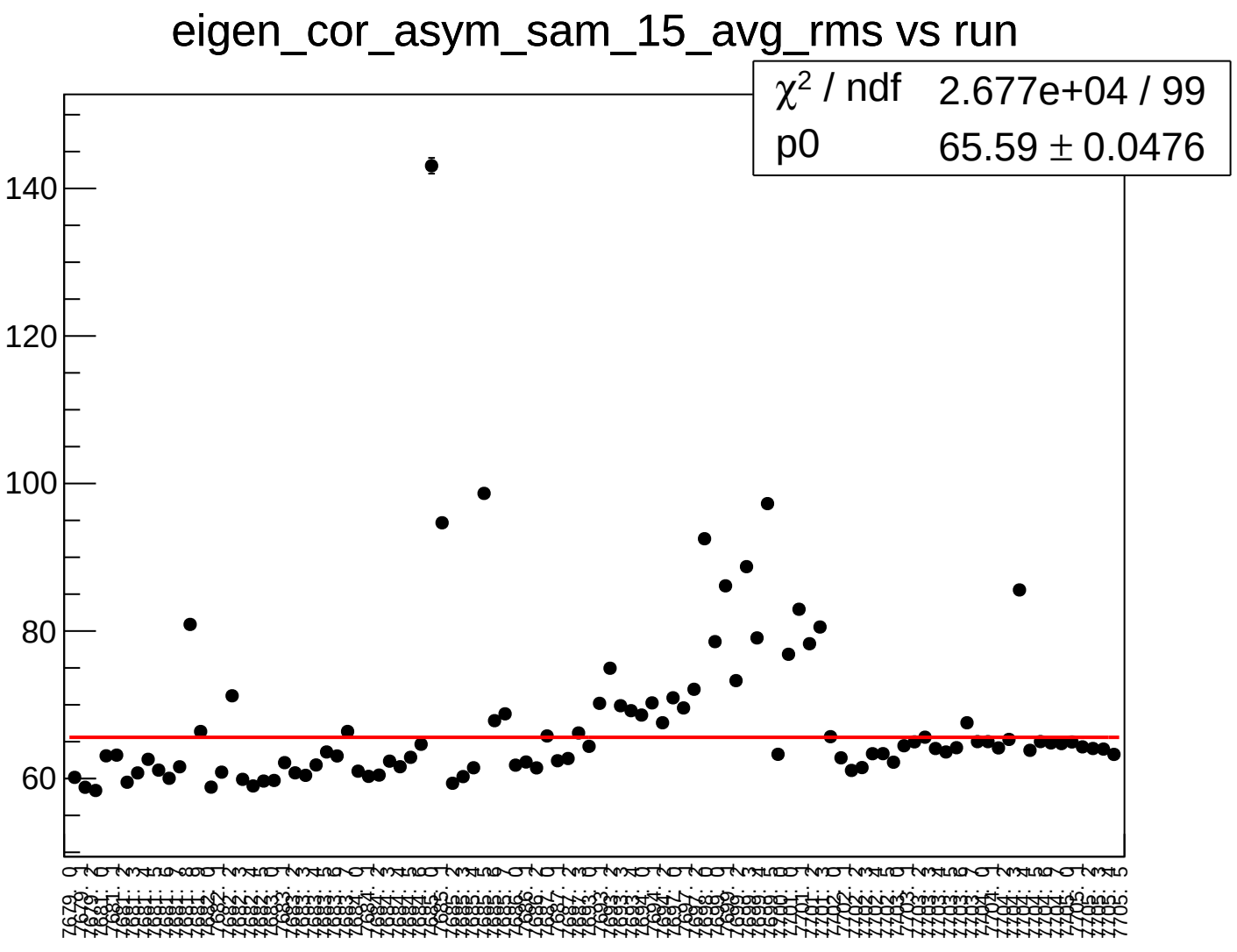

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 86.29 / 99
p0 181.9 ± 368.6
pull
Entries 100
Mean 1733
Std Dev 0

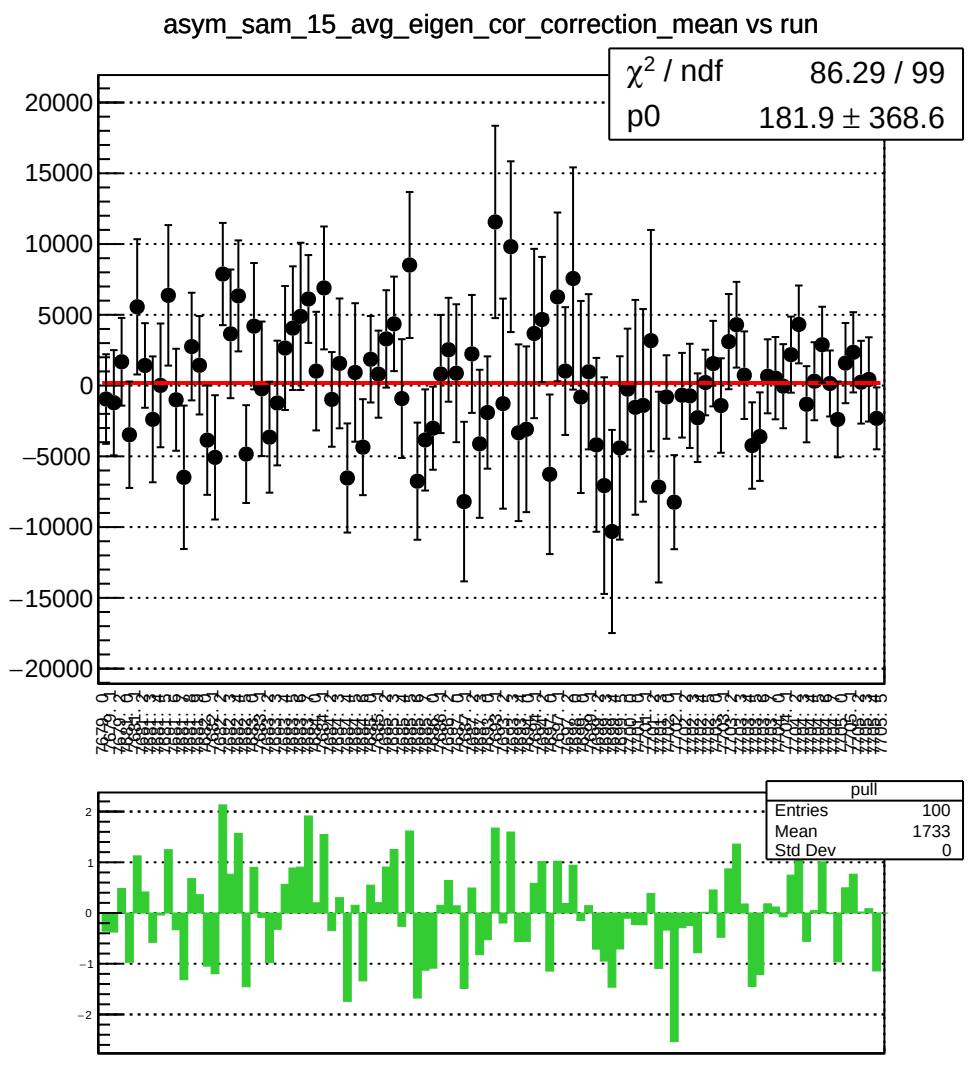

pull1D
Entries 100
Mean −0.001364
Std Dev 0.9289

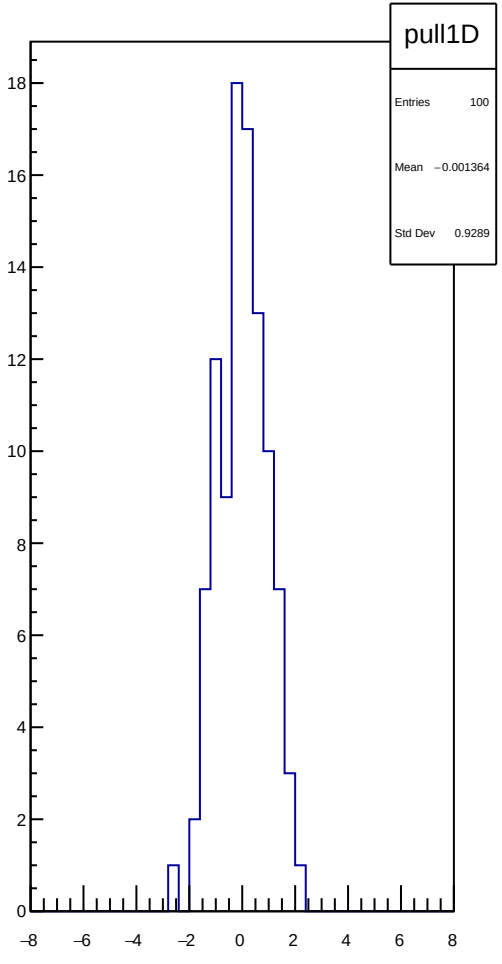

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 1.454e+05 / 99
p0 347.7 ± 0.2606
800
700
600
500
400
300
200

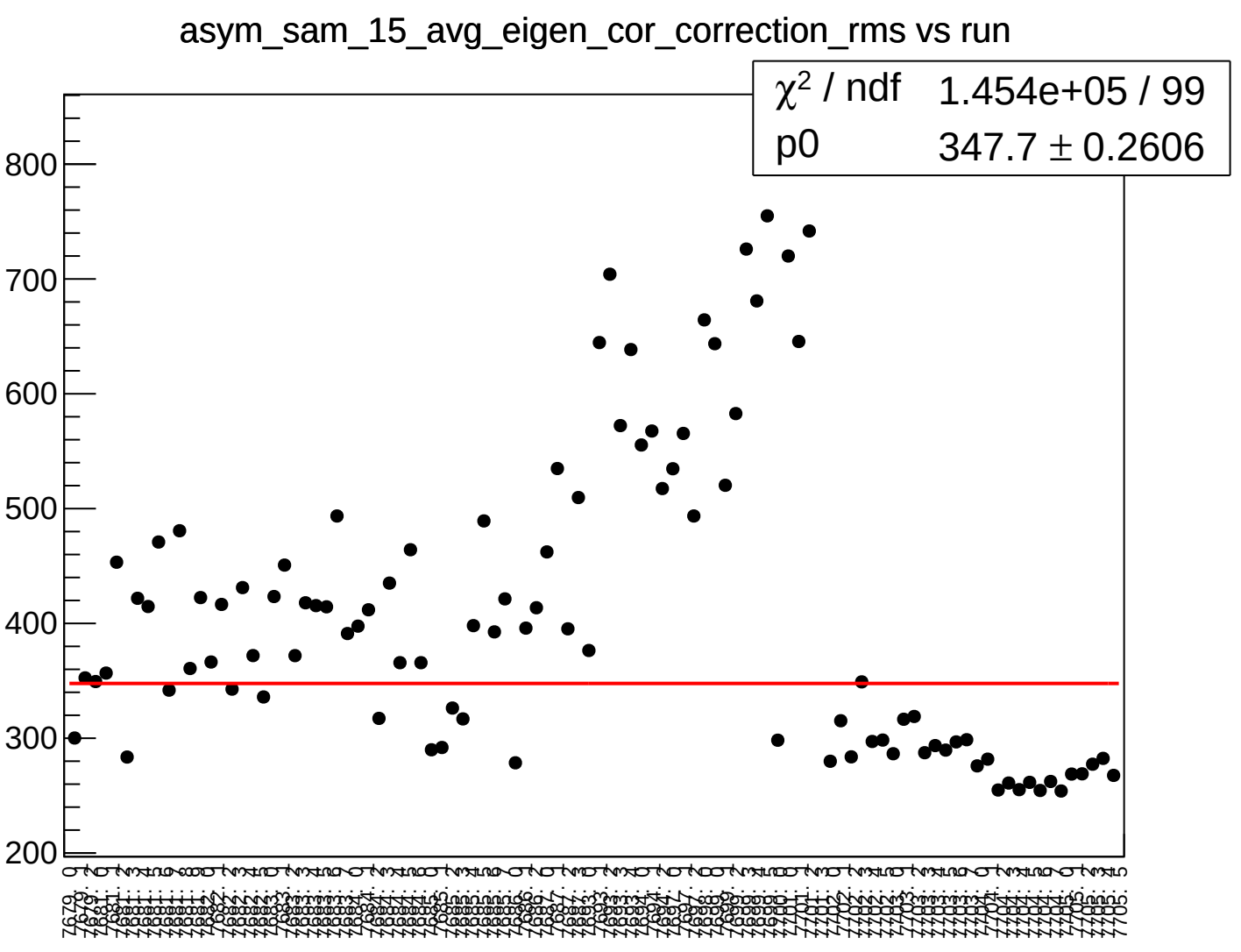

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 121 / 99
p0 −39.38 ± 67.32
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 100
Mean −2639
Std Dev 0
3
2
1
0
−1
−2

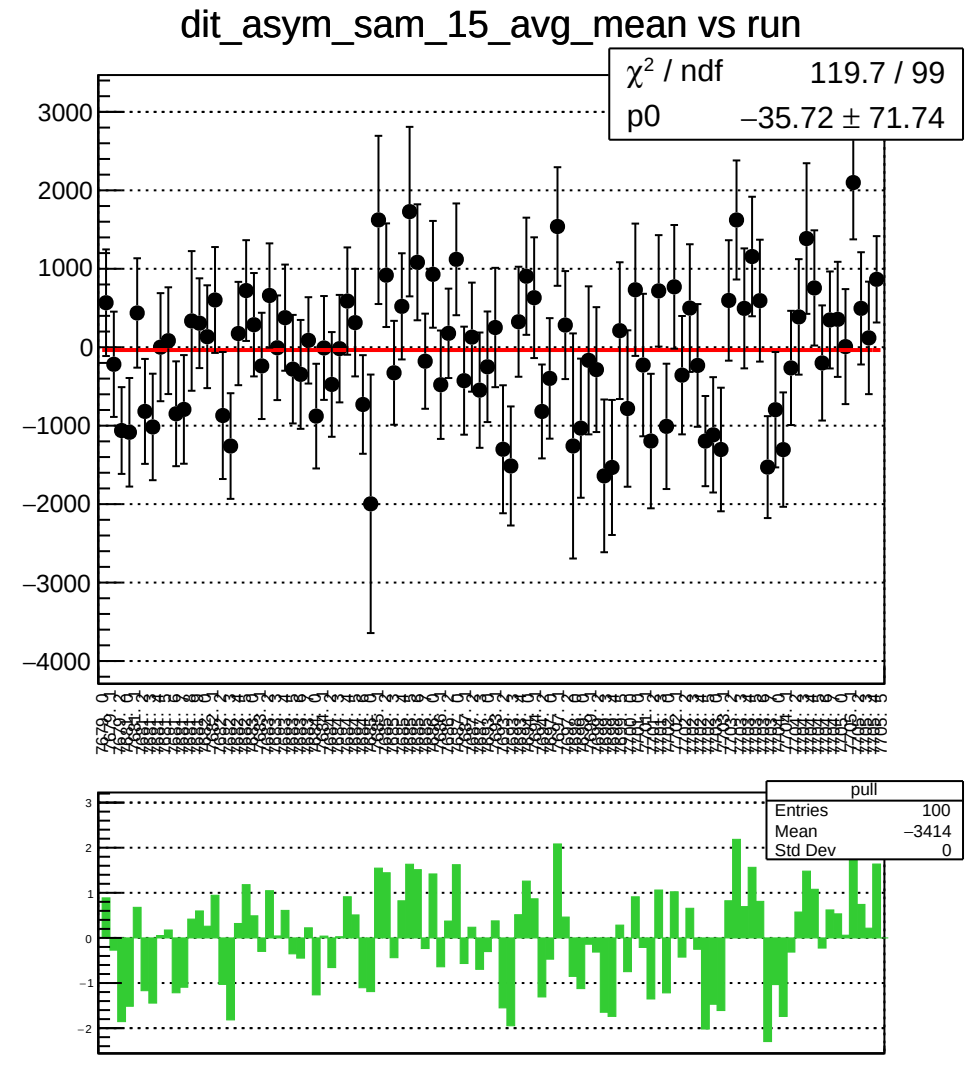

pull1D
Entries 100
Mean −0.001408
Std Dev 1.1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

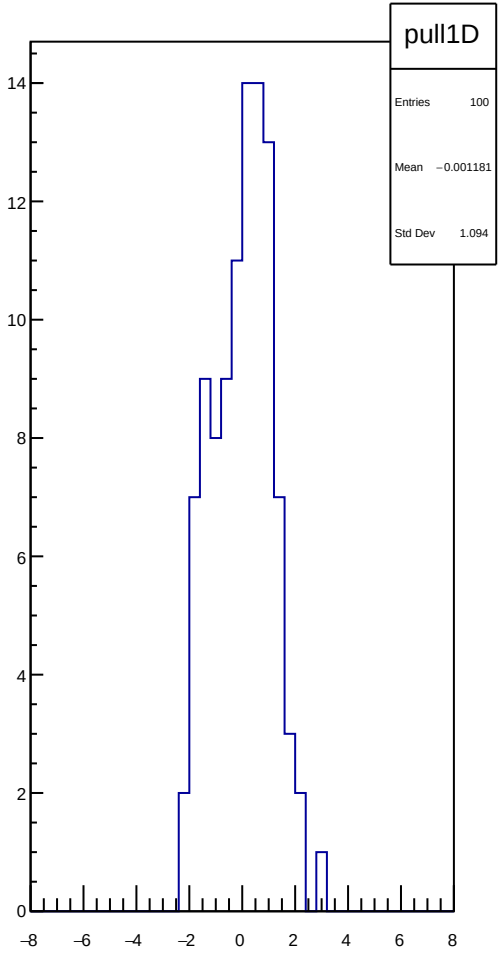

eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 2.677e+04 / 99
p0 65.59 ± 0.0476
140
120
100
80
60

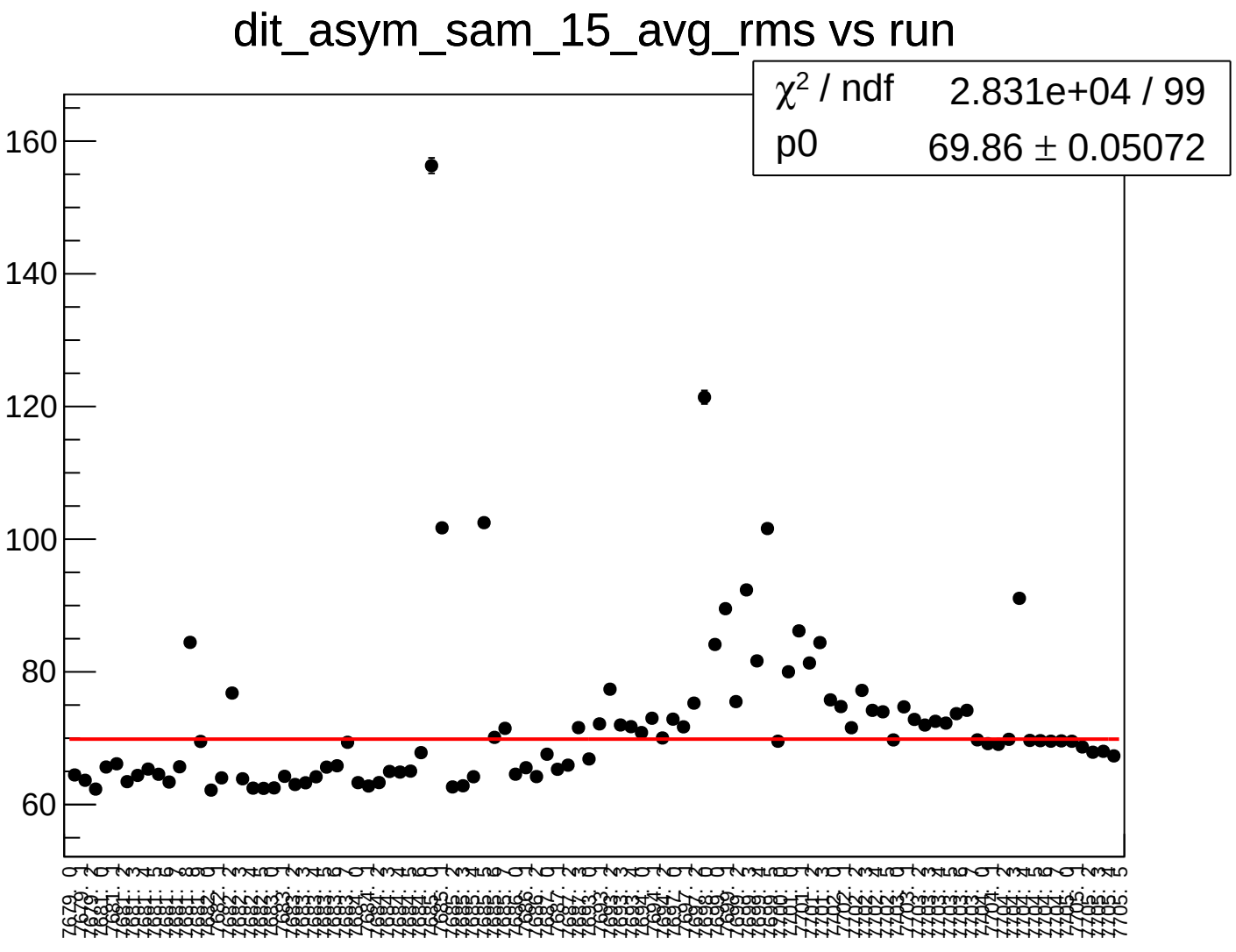

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 86.29 / 99
p0 181.9 ± 368.6
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 100
Mean 1733
Std Dev 0
2
1
0
−1
−2

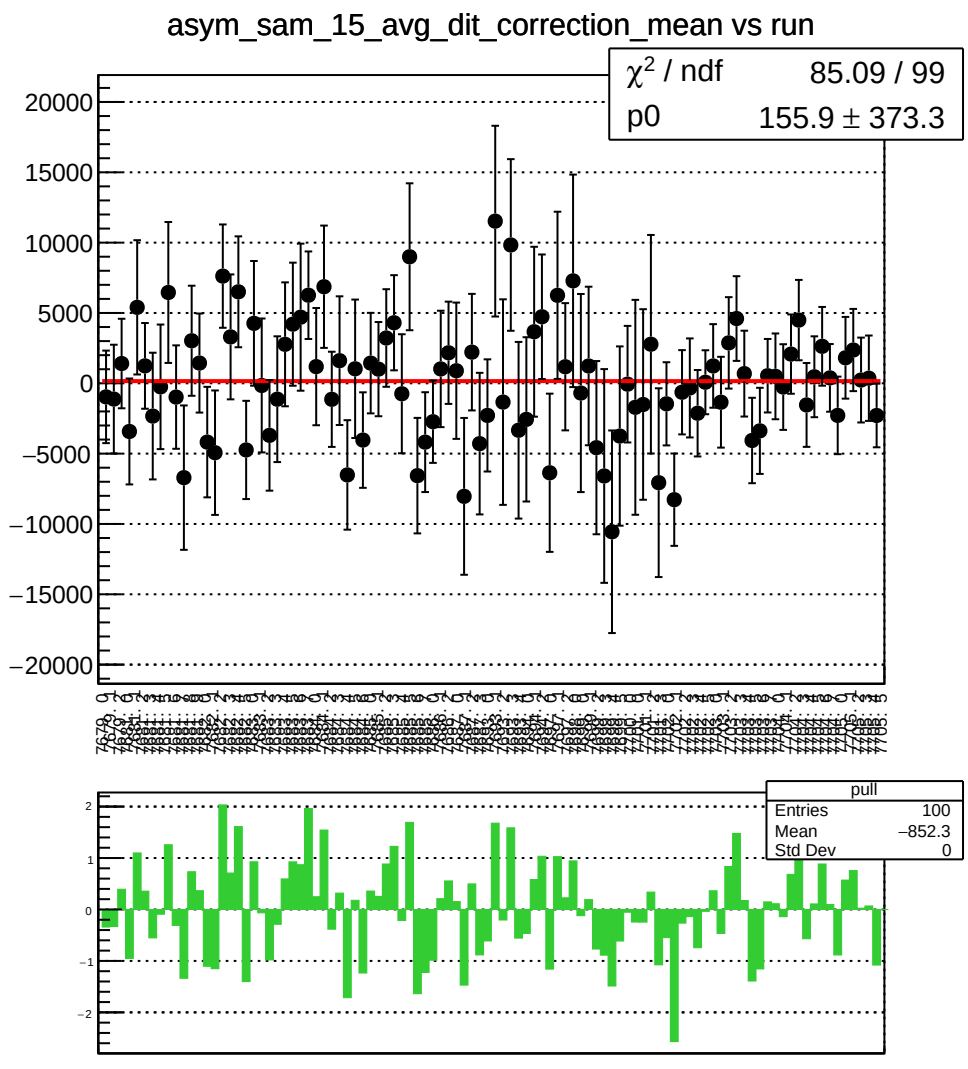

pull1D
Entries 100
Mean −0.001364
Std Dev 0.9289
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

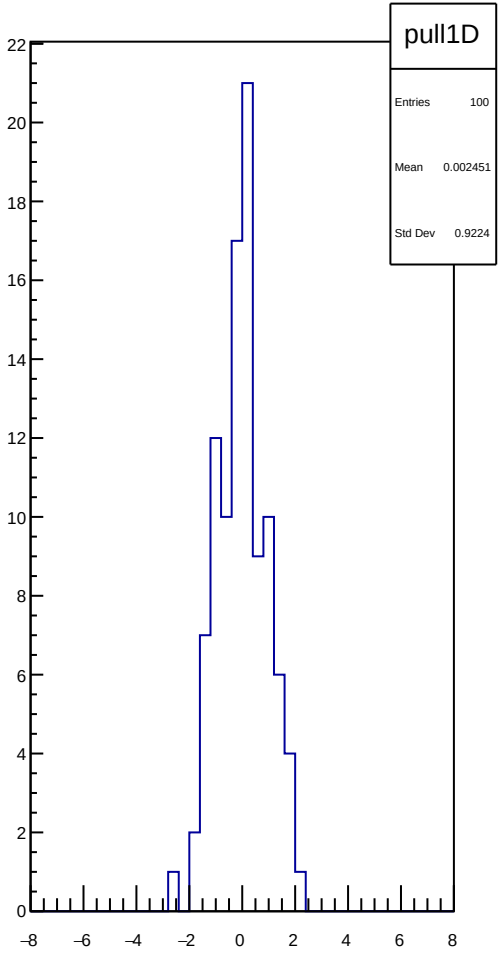

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.454e+05 / 99
p0 347.7 ± 0.2606
800
700
600
500
400
300
200

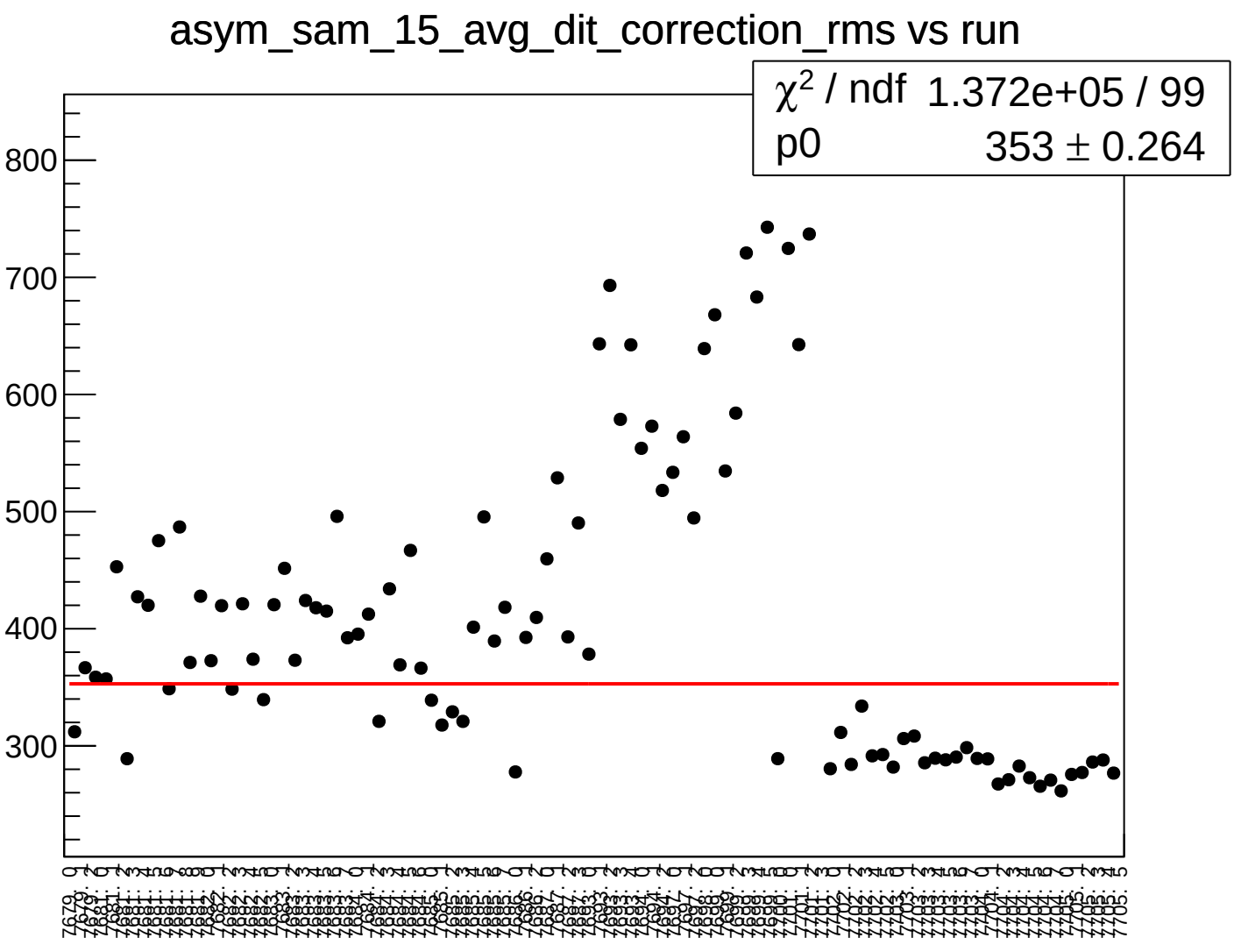

dit_asym_sam_15_avg_mean vs run
χ² / ndf 119.7 / 99
p0 −35.72 ± 71.74
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 100
Mean −3414
Std Dev 0
3
2
1
0
−1
−2

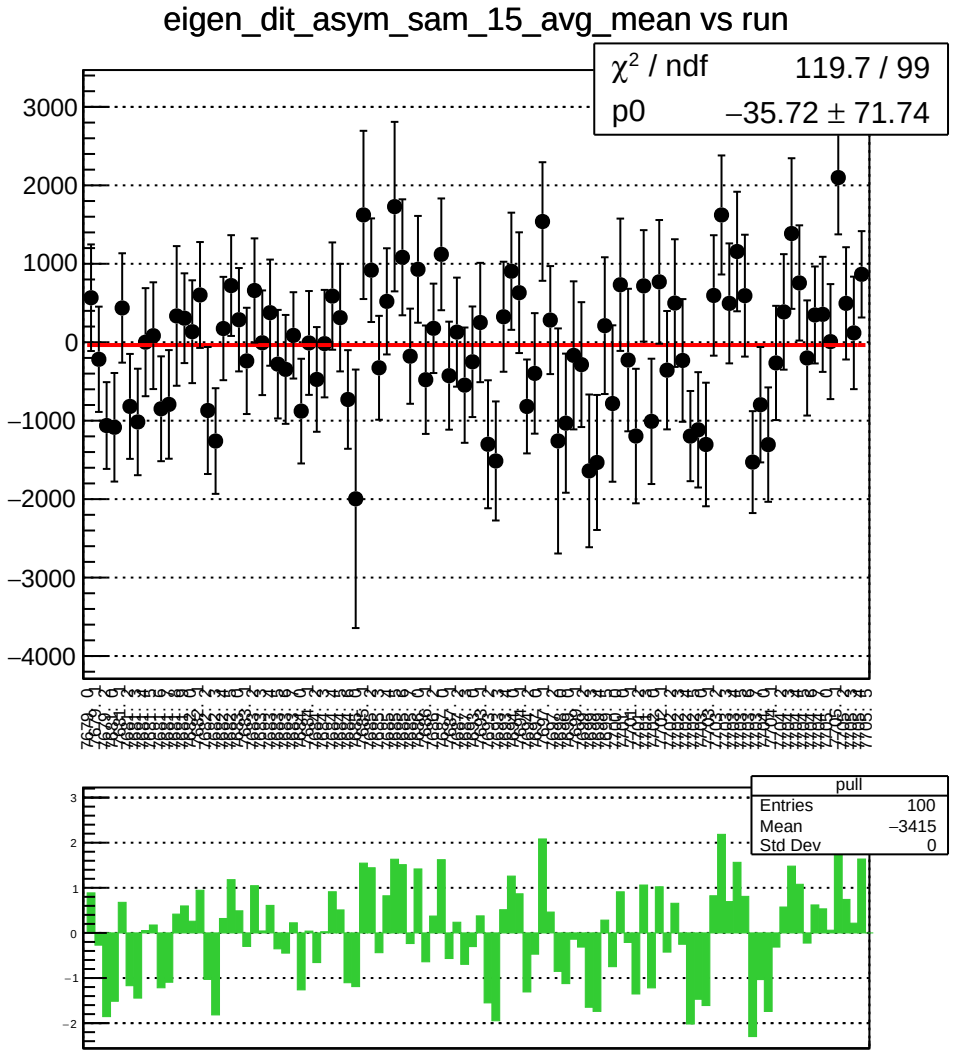

pull1D
Entries 100
Mean −0.001181
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

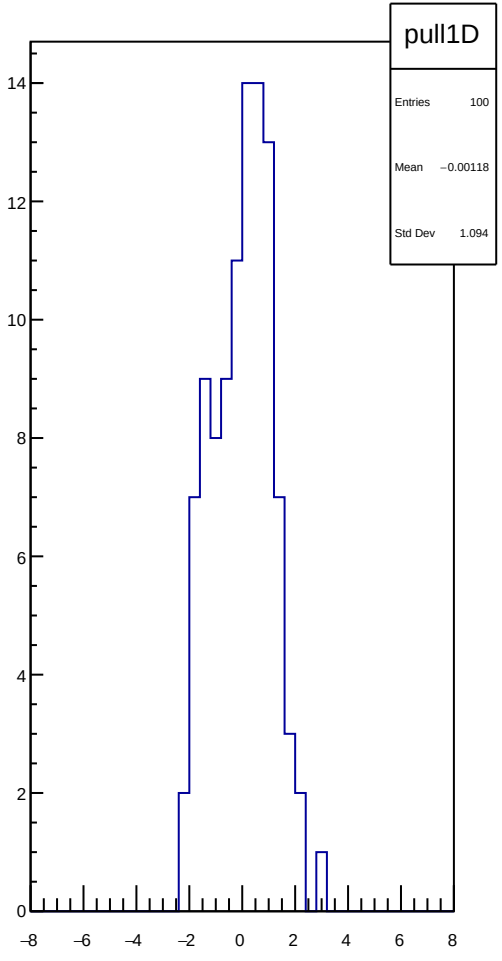

dit_asym_sam_15_avg_rms vs run
χ² / ndf 2.831e+04 / 99
p0 69.86 ± 0.05072
160
140
120
100
80
60

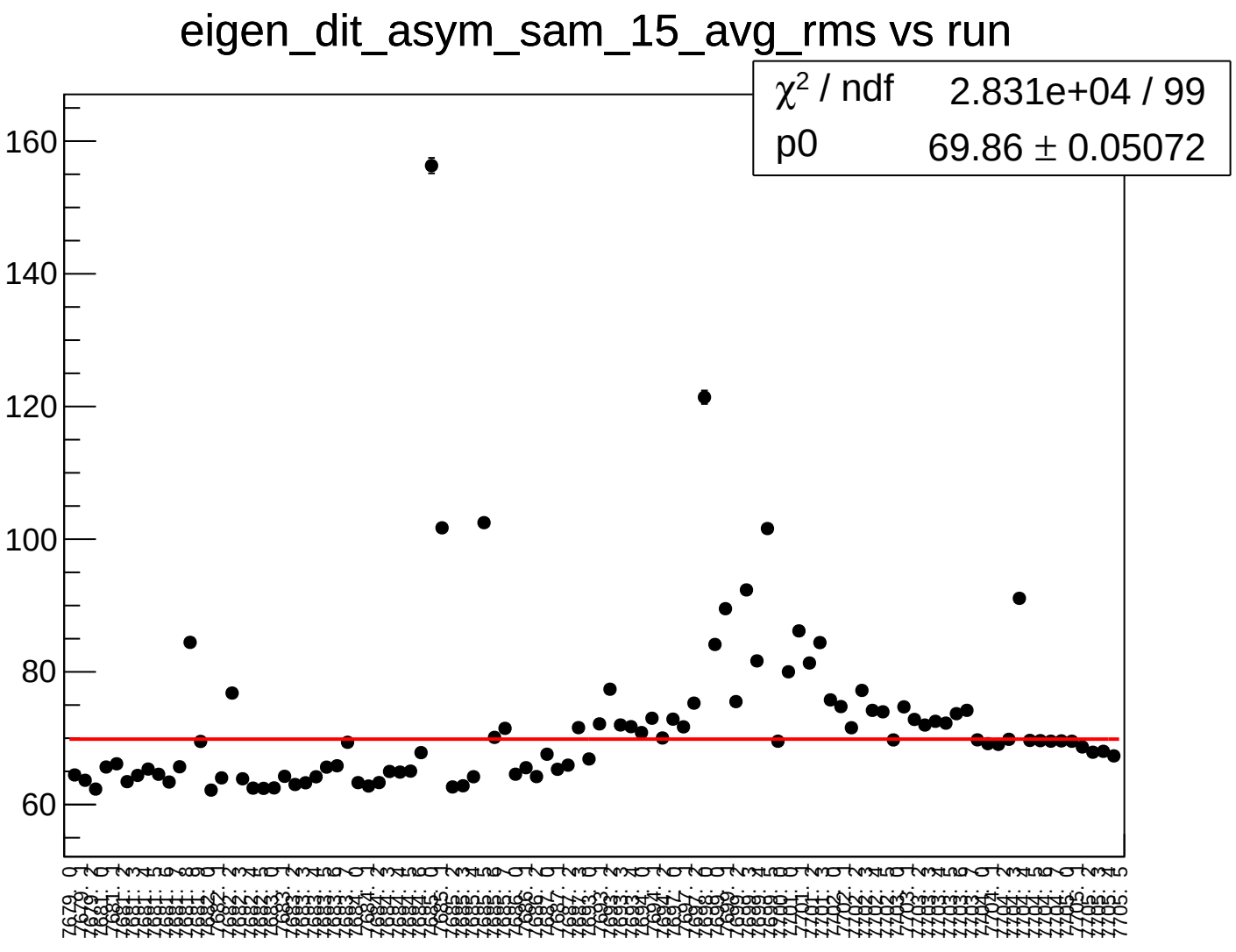

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 85.09 / 99
p0 155.9 ± 373.3
pull
Entries 100
Mean −852.3
Std Dev 0

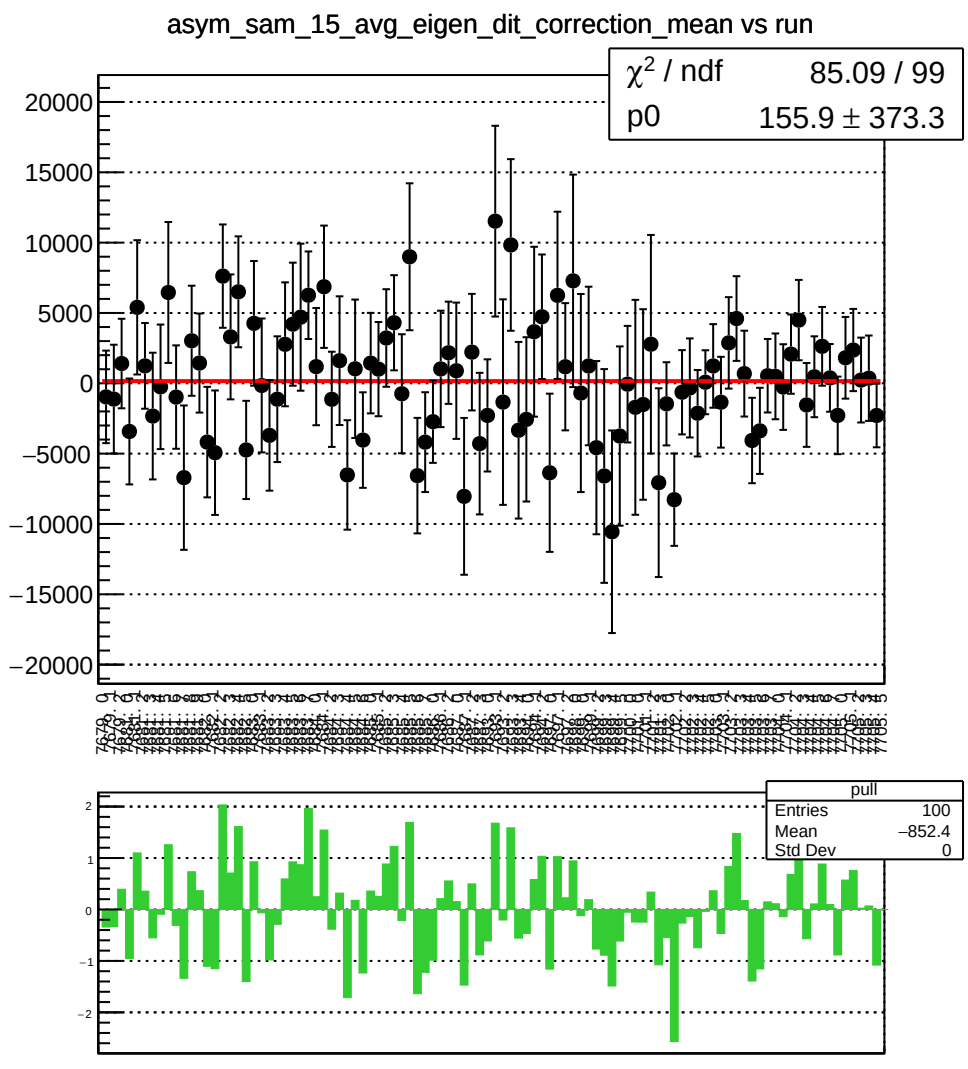

pull1D
Entries 100
Mean 0.002451
Std Dev 0.9224

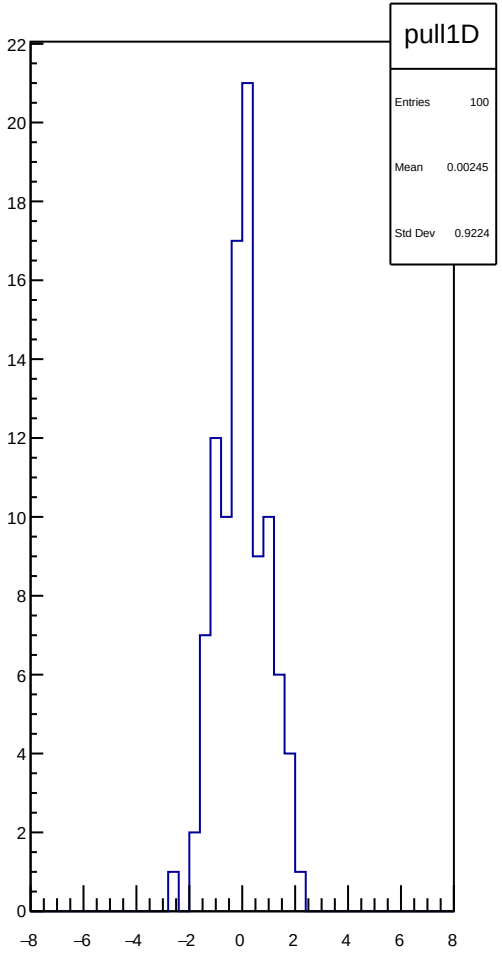

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 1.372e+05 / 99
p0 353 ± 0.264
800
700
600
500
400
300

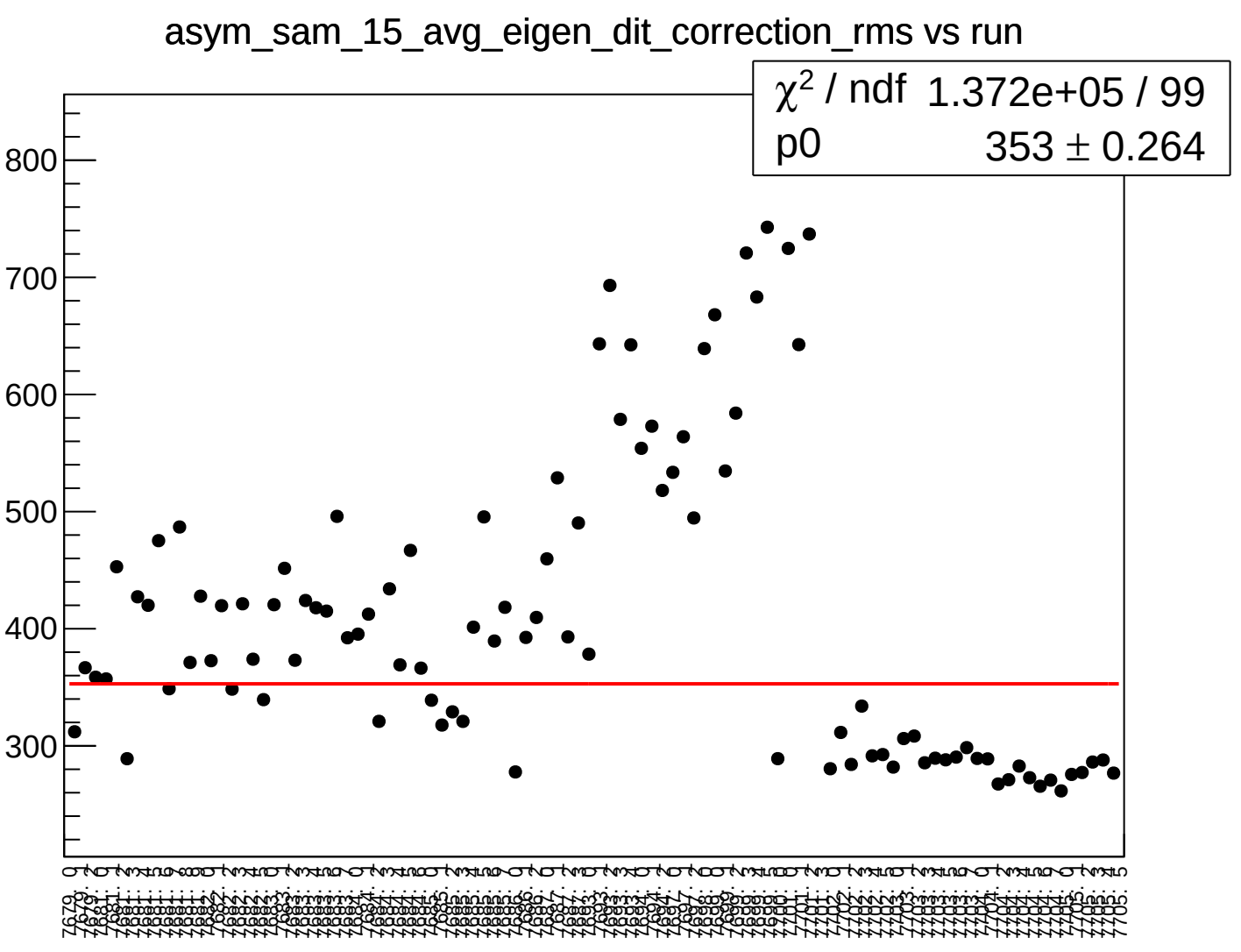

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 119.7 / 99
p0 −35.72 ± 71.74
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 100
Mean −3415
Std Dev 0
3
2
1
0
−1
−2

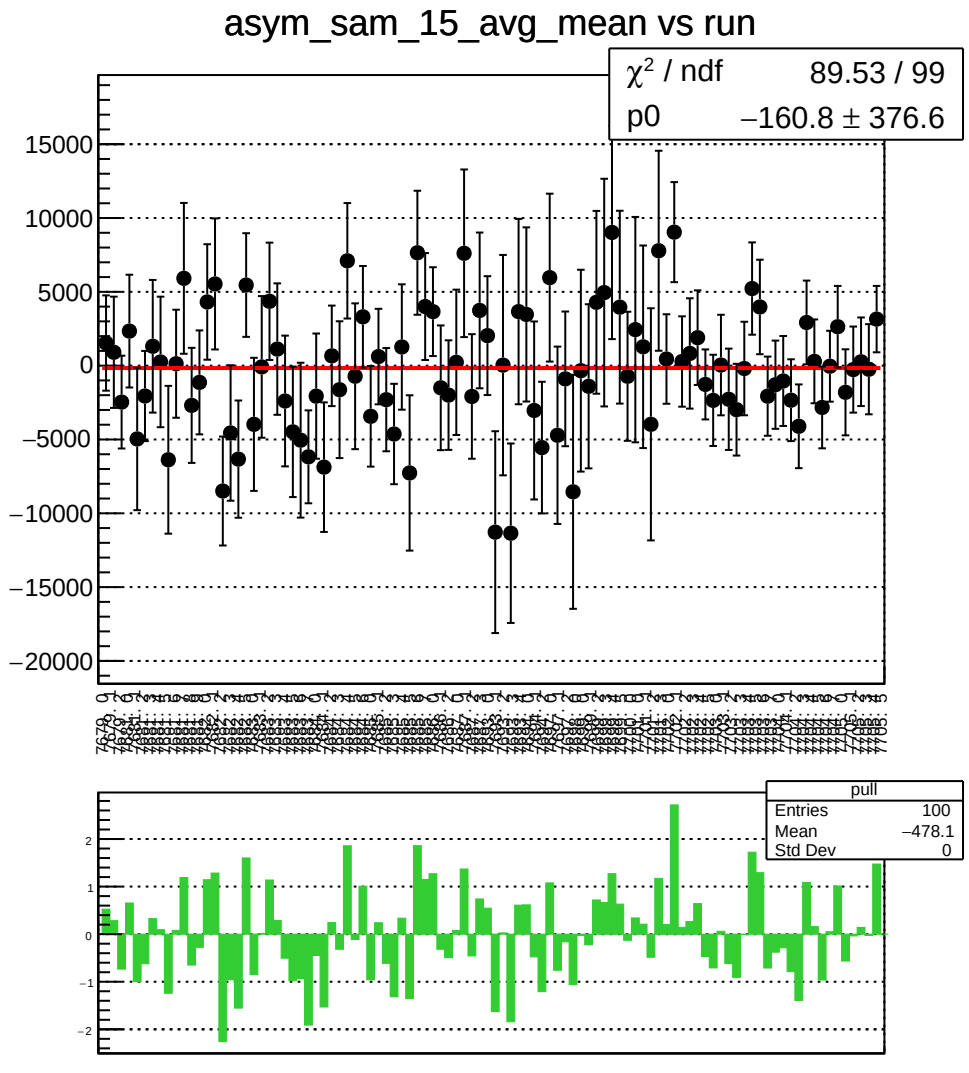

pull1D
Entries 100
Mean −0.00118
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

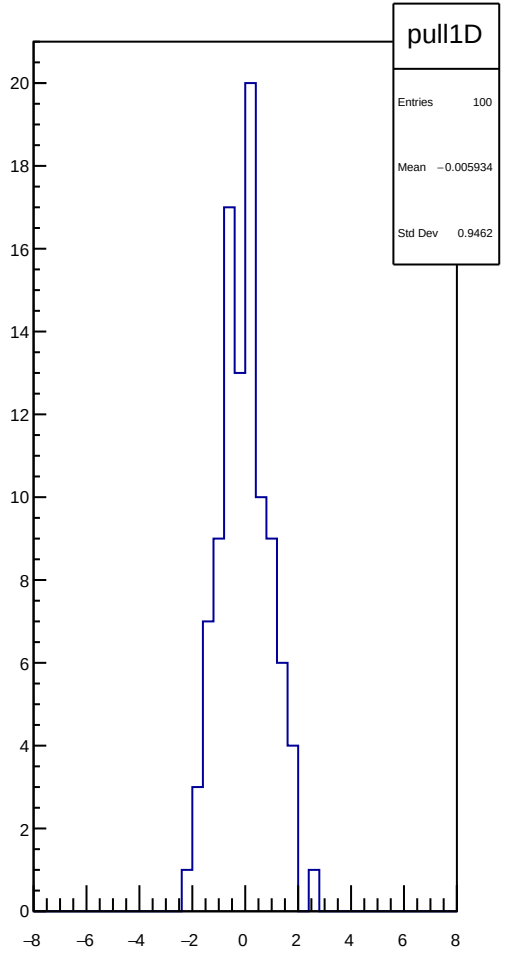

eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 2.831e+04 / 99
p0 69.86 ± 0.05072
160
140
120
100
80
60

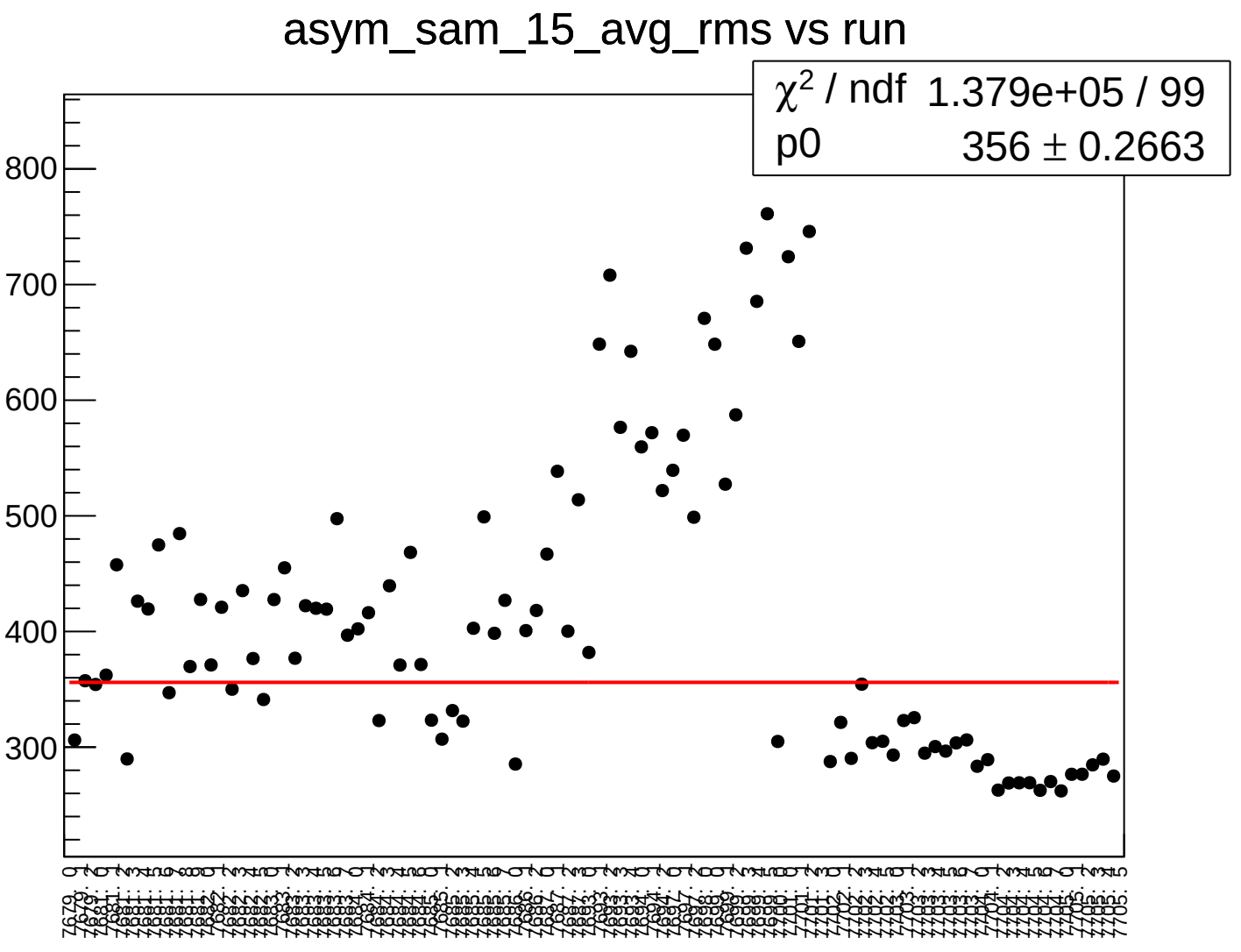

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 85.09 / 99
p0 155.9 ± 373.3
pull
Entries 100
Mean −852.4
Std Dev 0

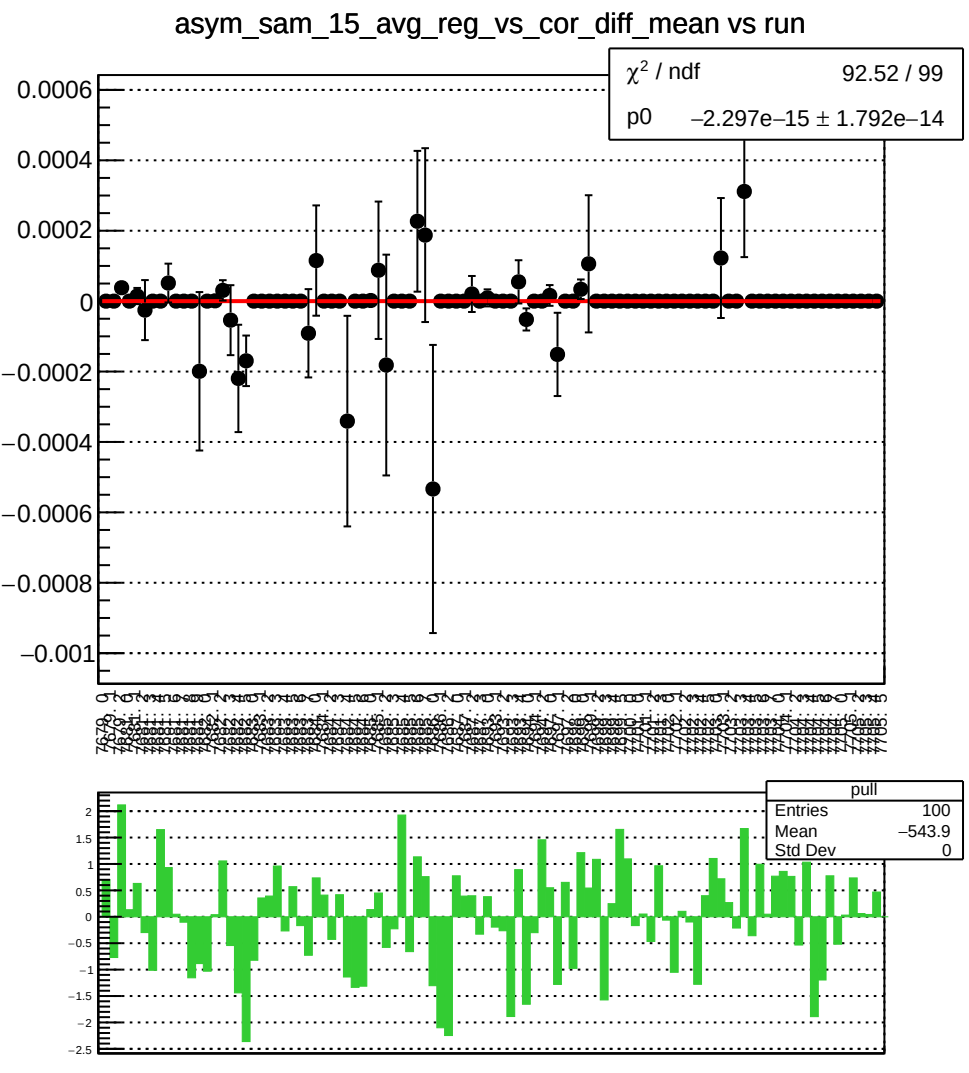

pull1D
Entries 100
Mean 0.00245
Std Dev 0.9224

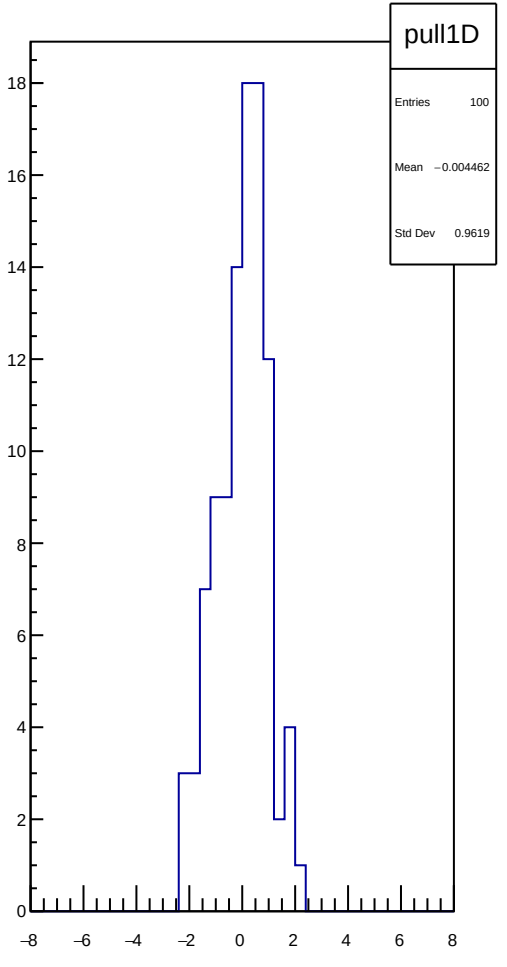

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.372e+05 / 99
p0 353 ± 0.264
800
700
600
500
400
300

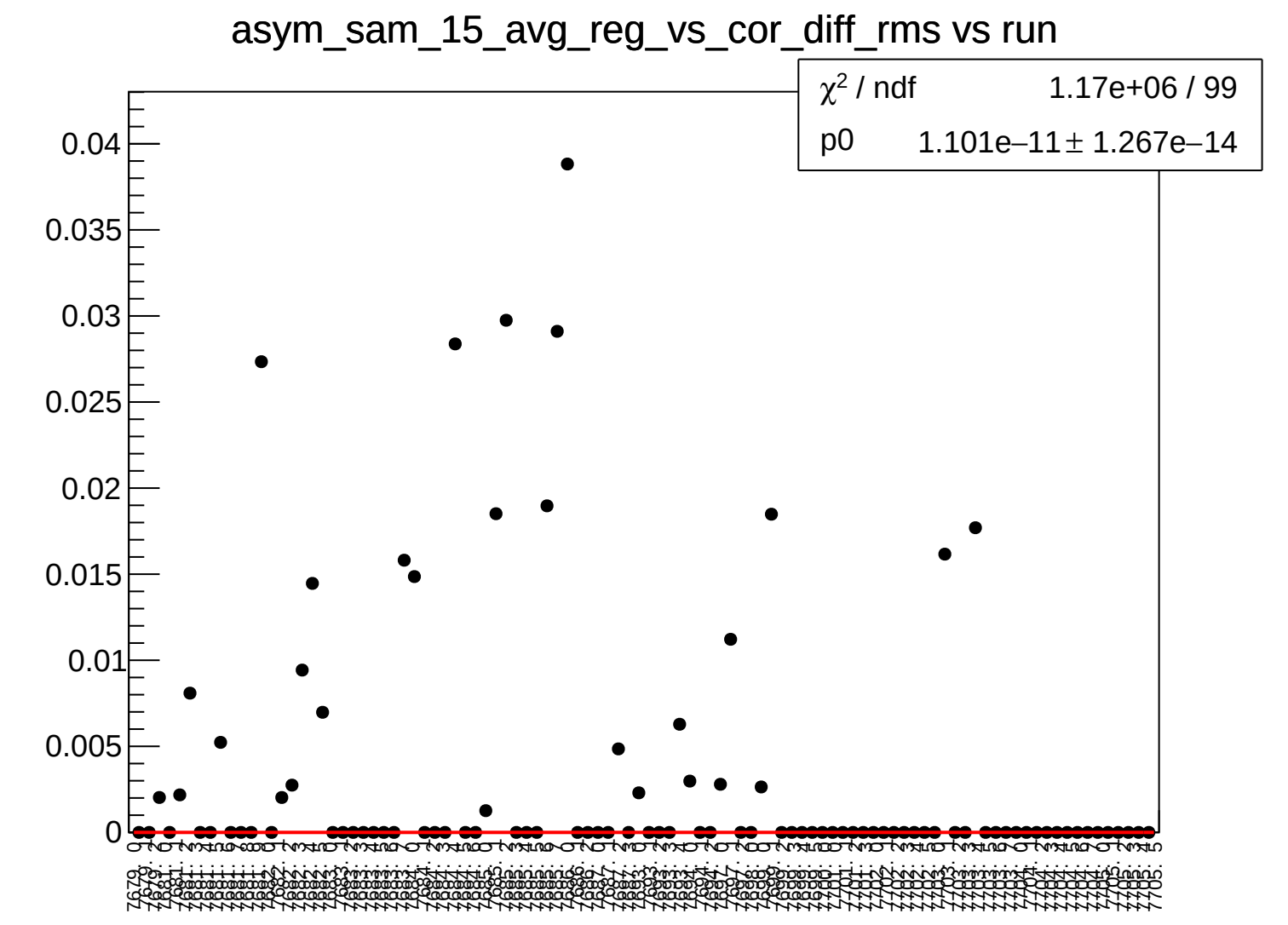

asym_sam_15_avg_mean vs run
χ² / ndf 89.53 / 99
p0 −160.8 ± 376.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 100
Mean −478.1
Std Dev 0
2
1
0
−1
−2

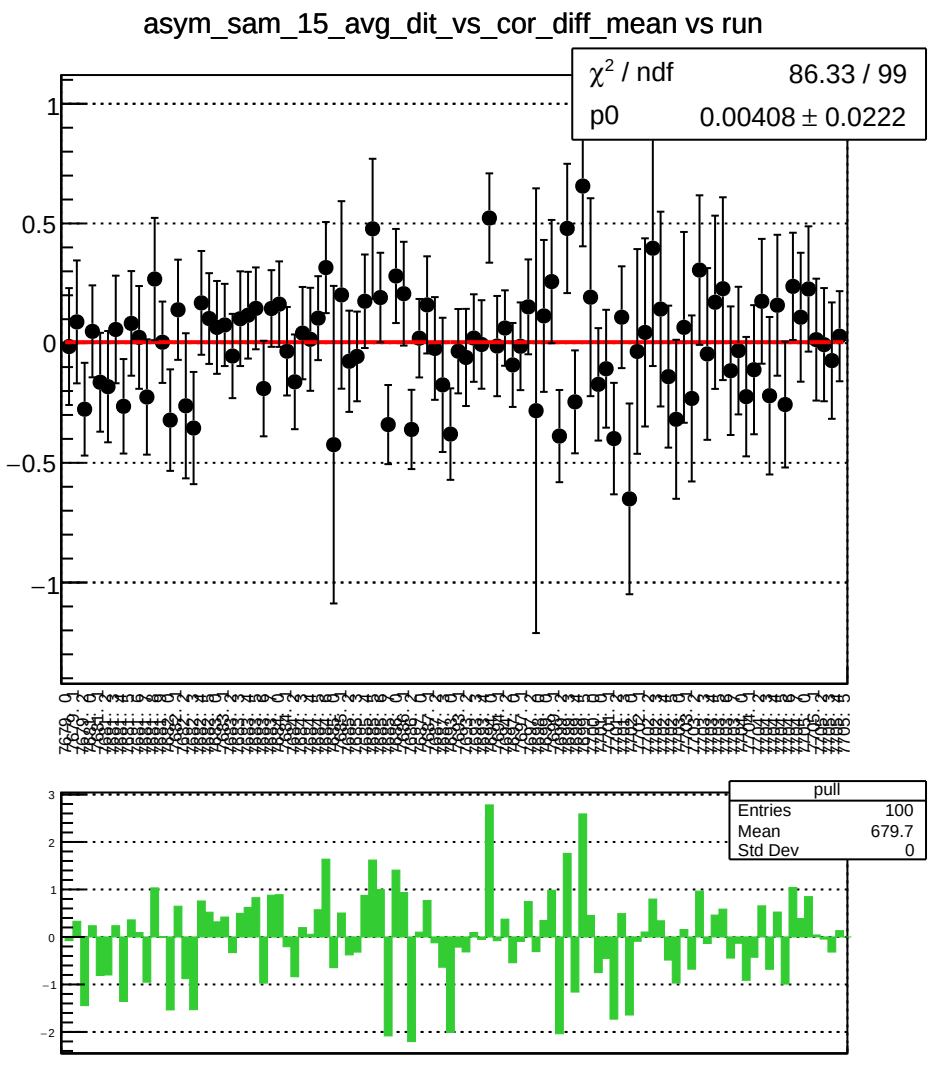

pull1D
Entries 100
Mean −0.005934
Std Dev 0.9462
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

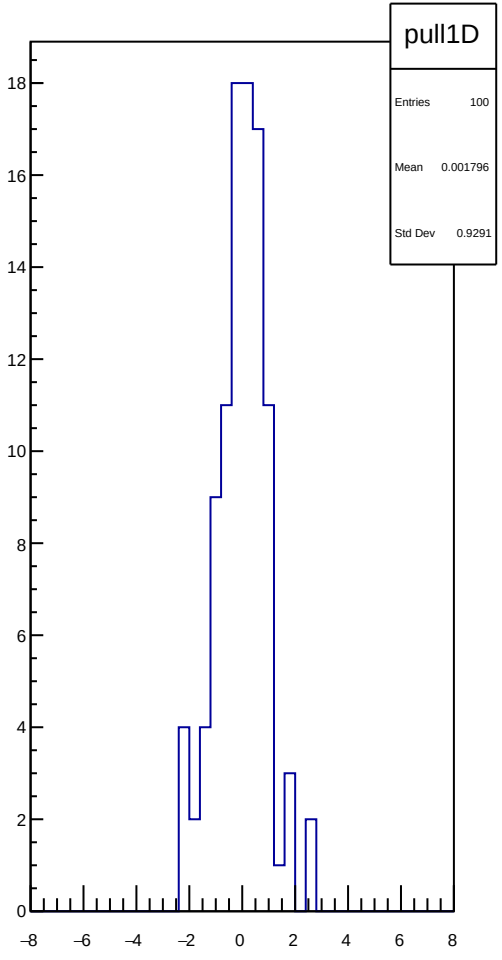

asym_sam_15_avg_rms vs run
χ² / ndf 1.379e+05 / 99
p0 356 ± 0.2663
800
700
600
500
400
300

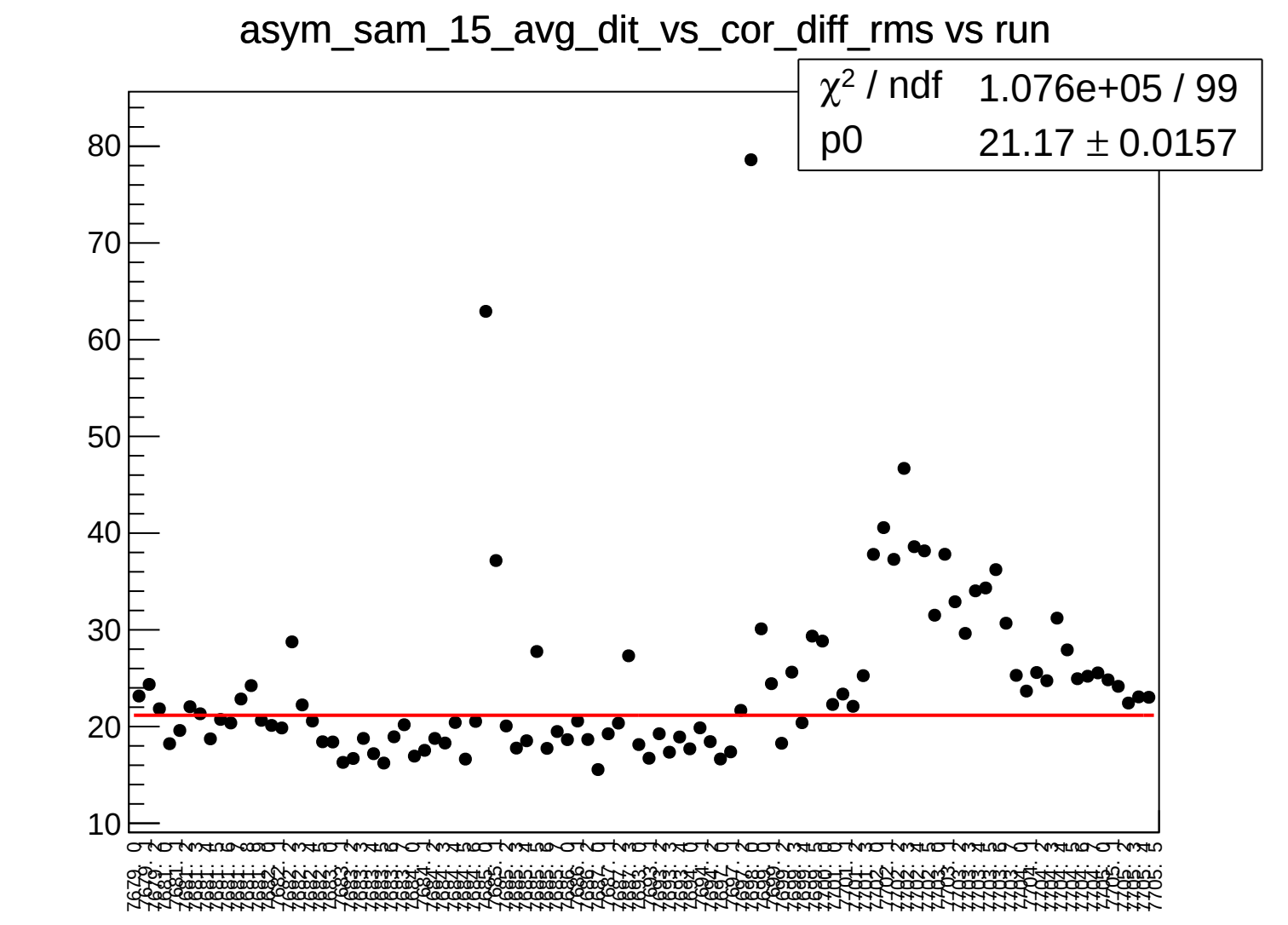

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 92.52 / 99
p0 −2.297e−15 ± 1.792e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 100
Mean −543.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

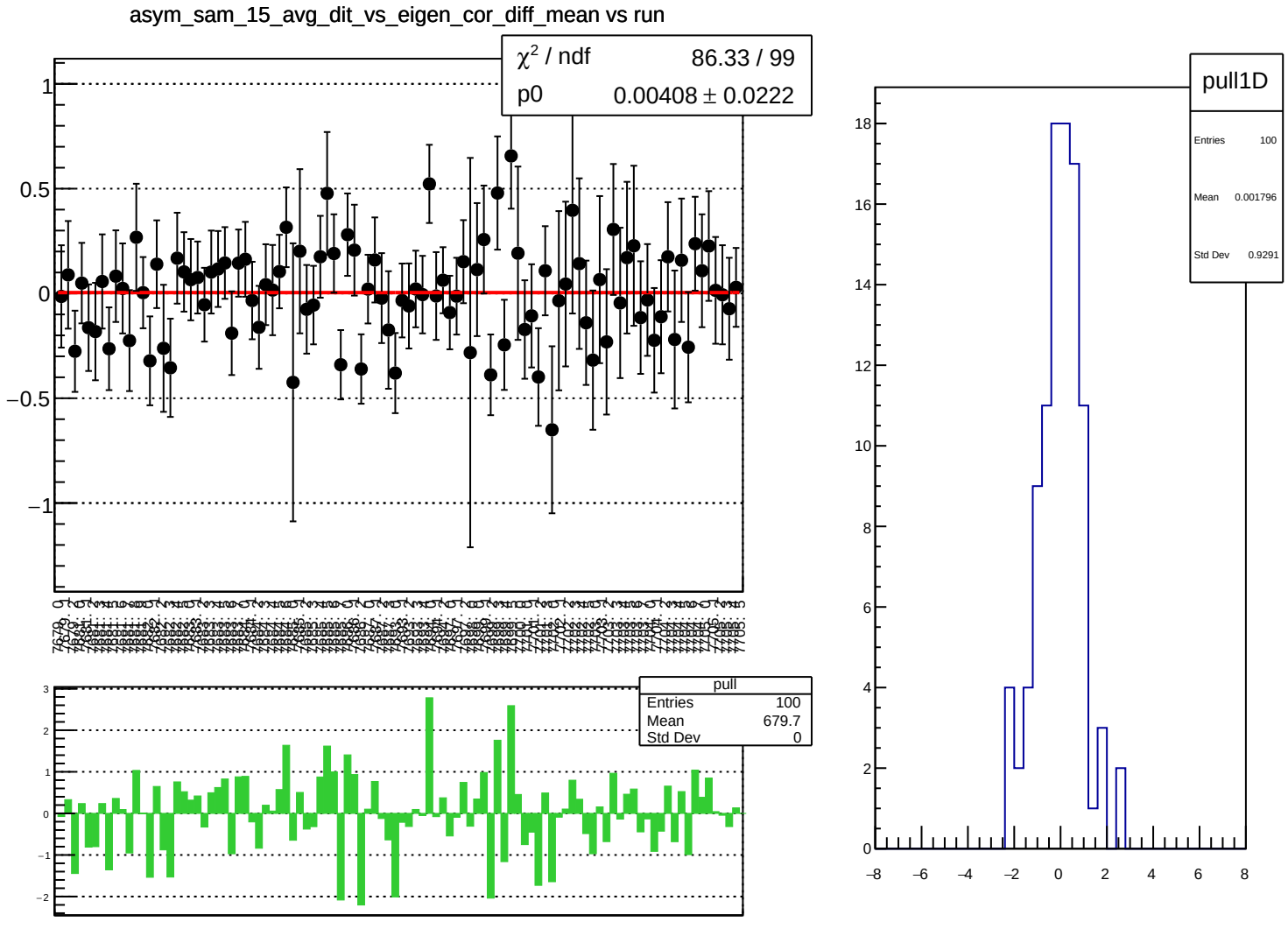

pull1D
Entries 100
Mean −0.004462
Std Dev 0.9619
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

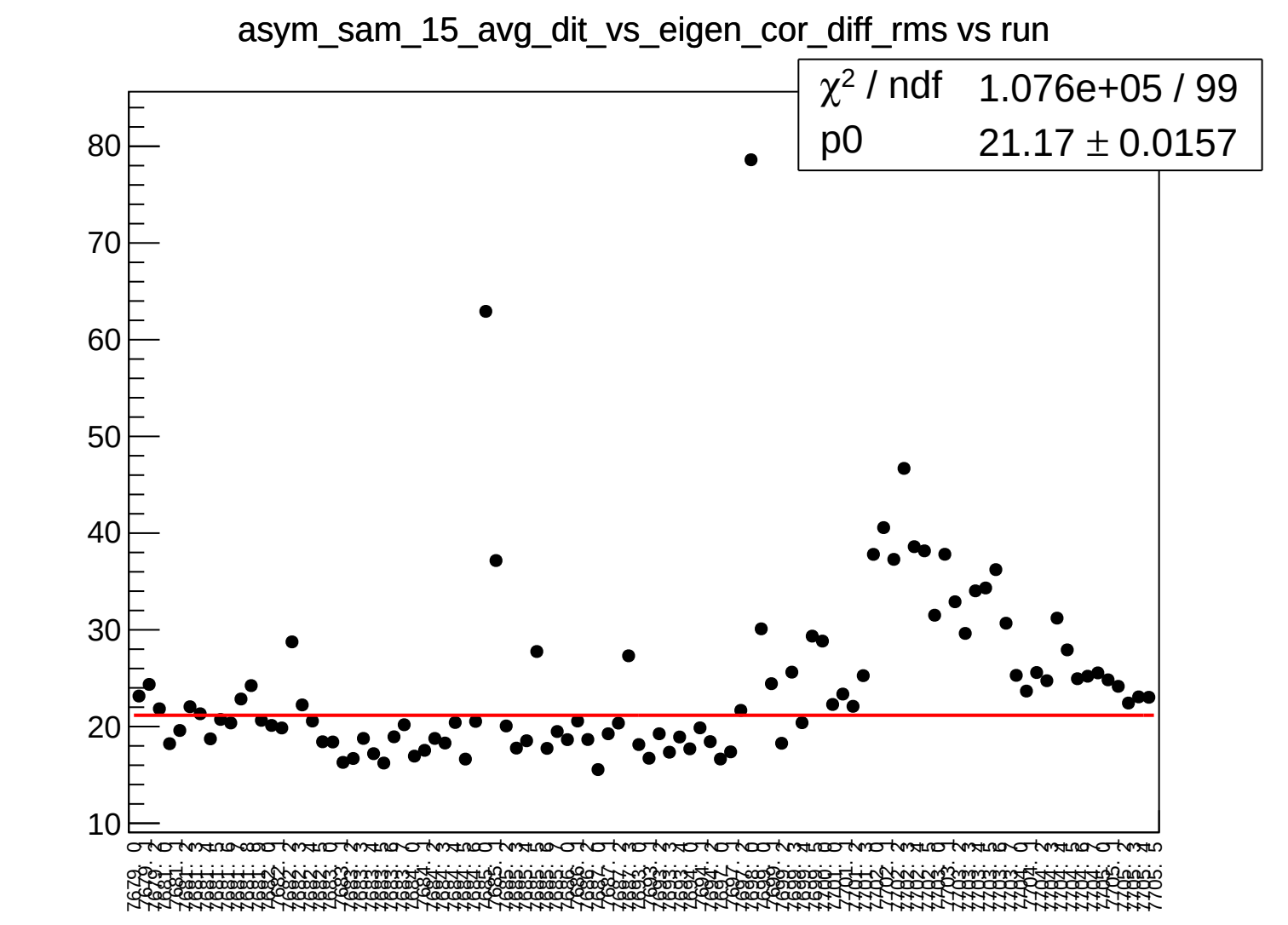

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.17e+06 / 99
p0 1.101e−11 ± 1.267e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

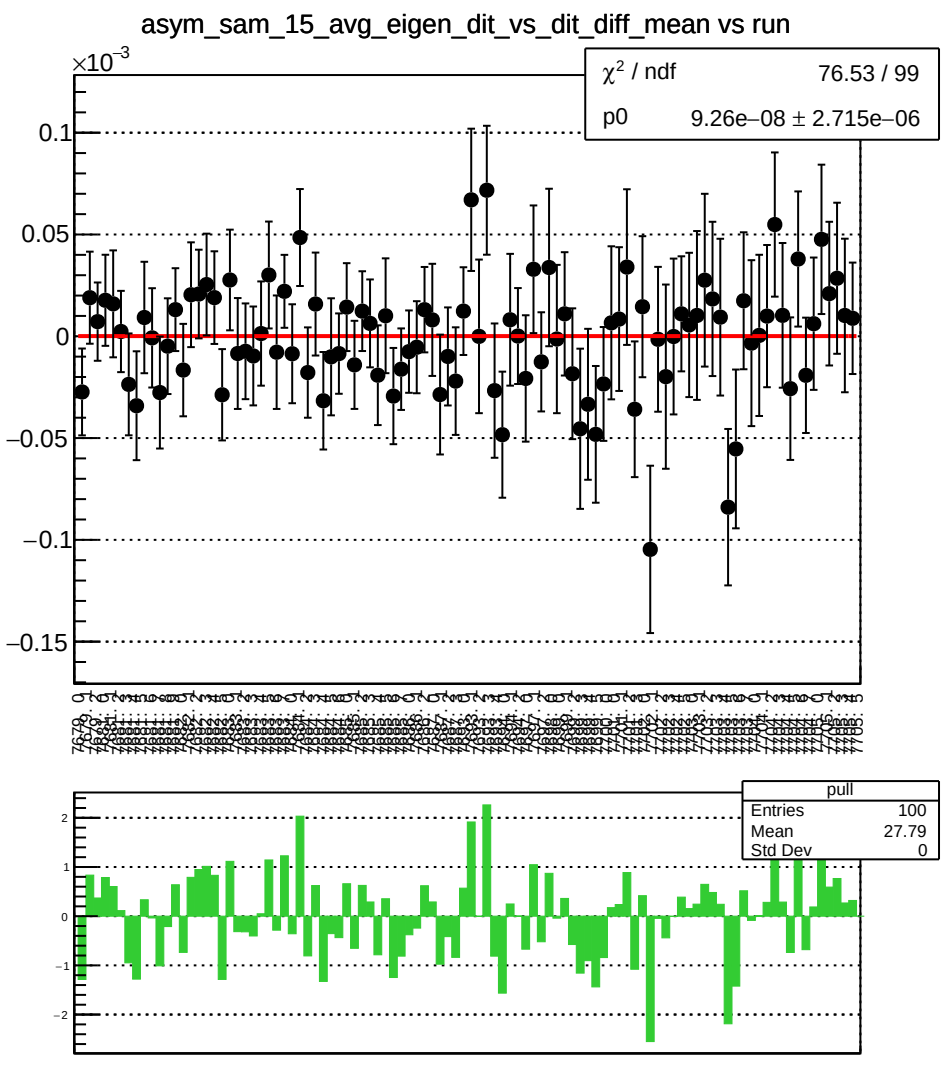

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.33 / 99
p0 0.00408 ± 0.0222
pull
Entries 100
Mean 679.7
Std Dev 0

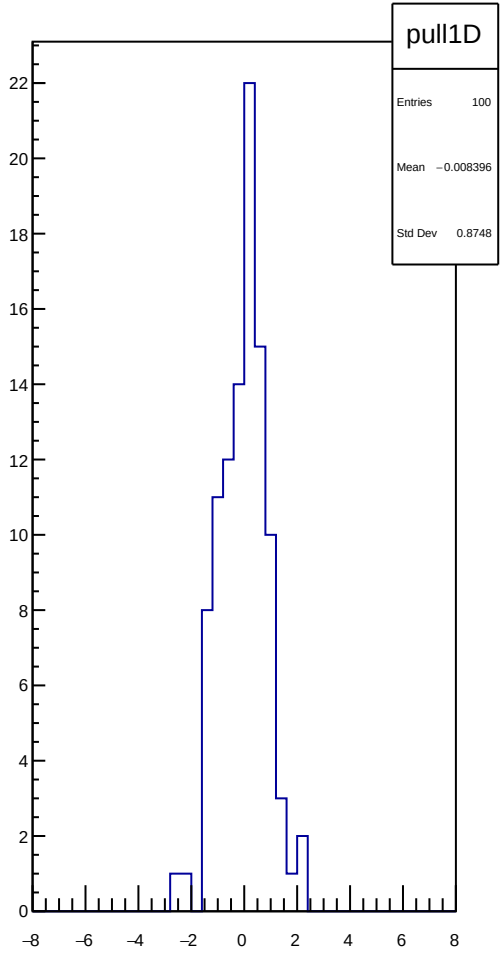

pull1D
Entries 100
Mean 0.001796
Std Dev 0.9291

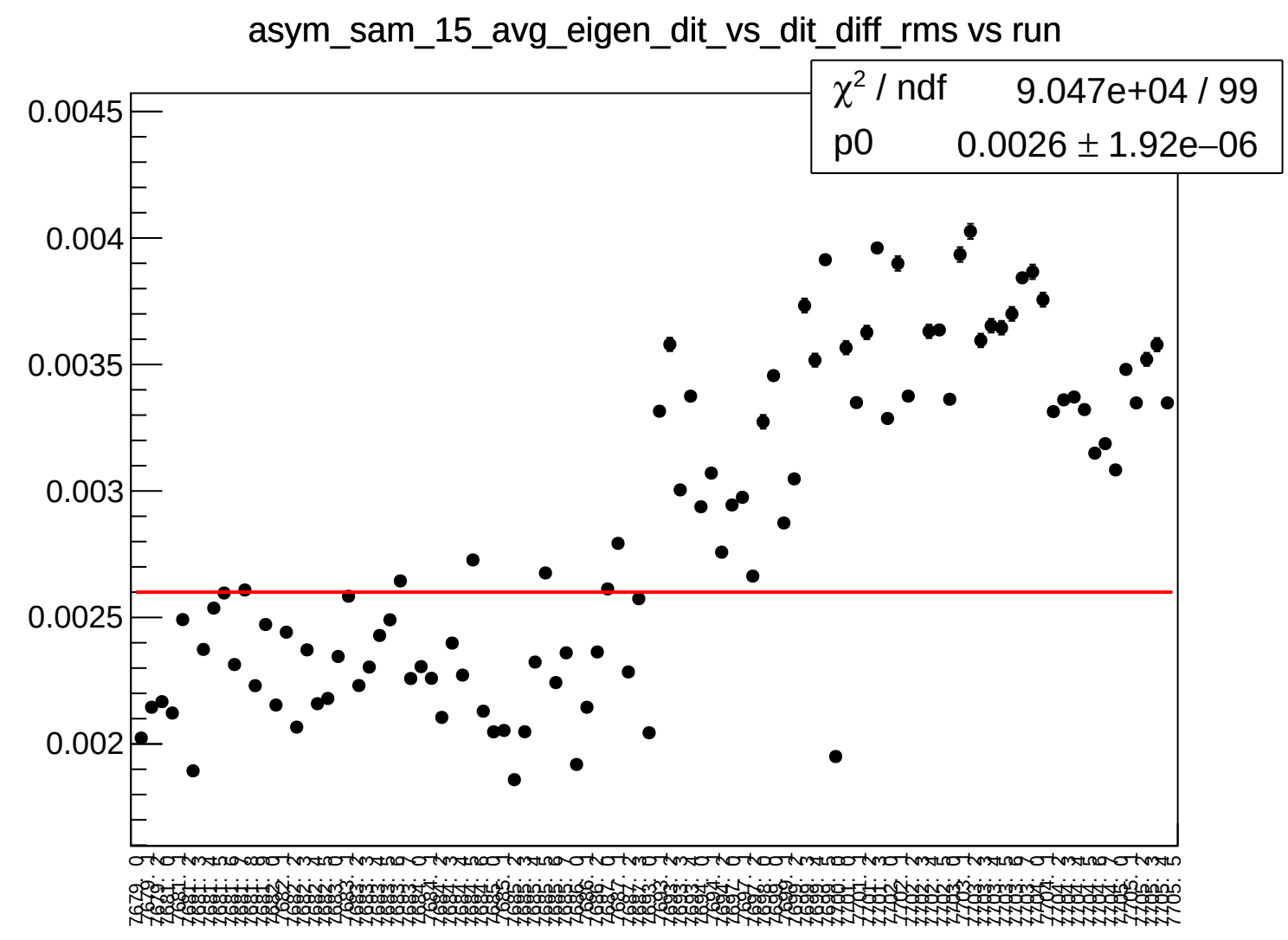

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.076e+05 / 99
p0 21.17 ± 0.0157
80
70
60
50
40
30
20
10

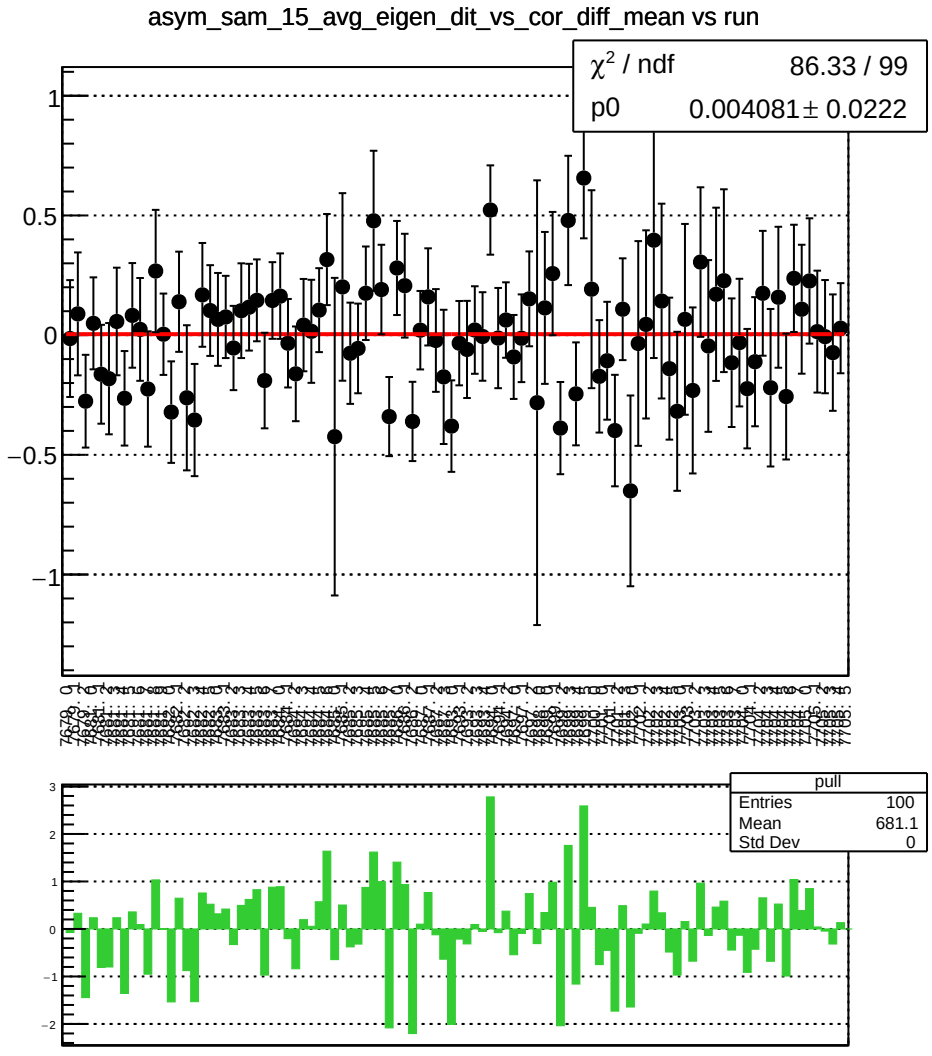

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.33 / 99
p0 0.00408 ± 0.0222
pull
Entries 100
Mean 679.7
Std Dev 0
pull1D
Entries 100
Mean 0.001796
Std Dev 0.9291

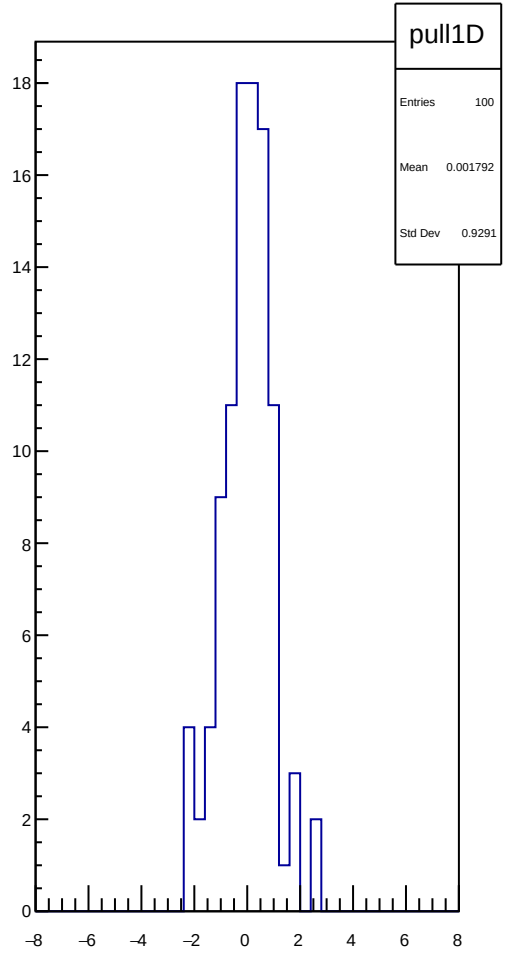

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.076e+05 / 99
p0 21.17 ± 0.0157
80
70
60
50
40
30
20
10

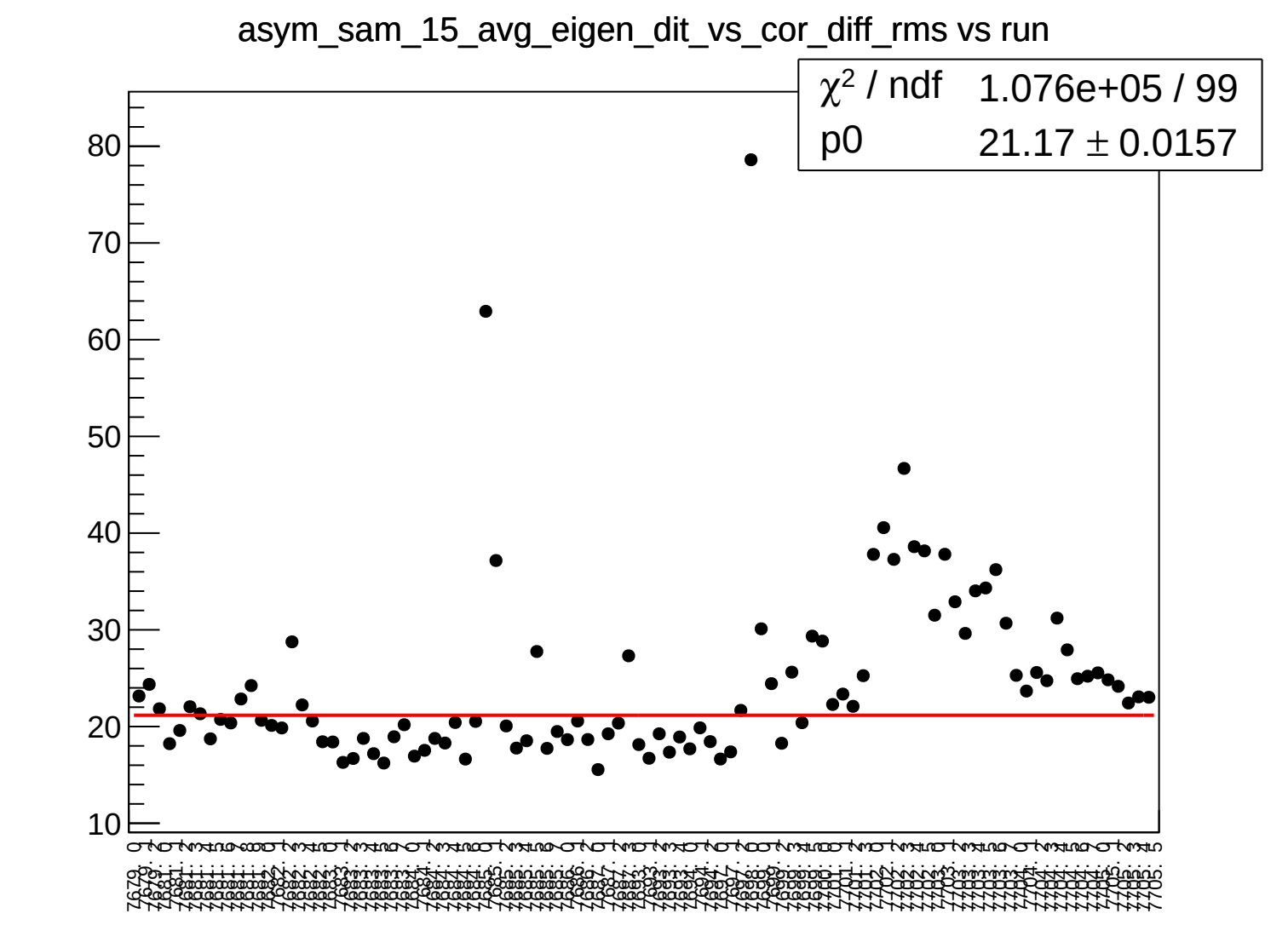

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.53 / 99
p0 9.26e−08 ± 2.715e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 100
Mean 27.79
Std Dev 0
2
1
0
−1
−2

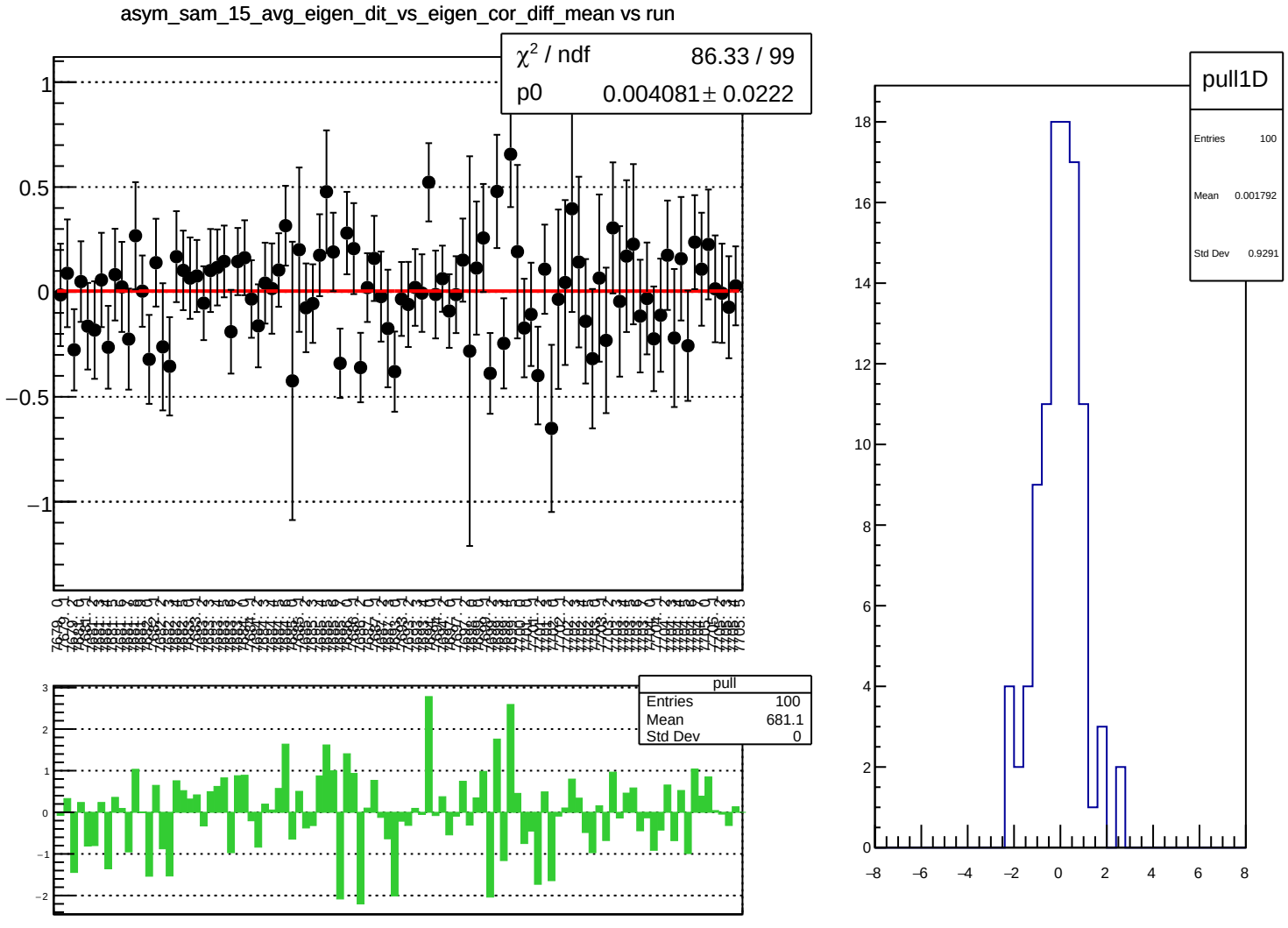

pull1D
Entries 100
Mean −0.008396
Std Dev 0.8748
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

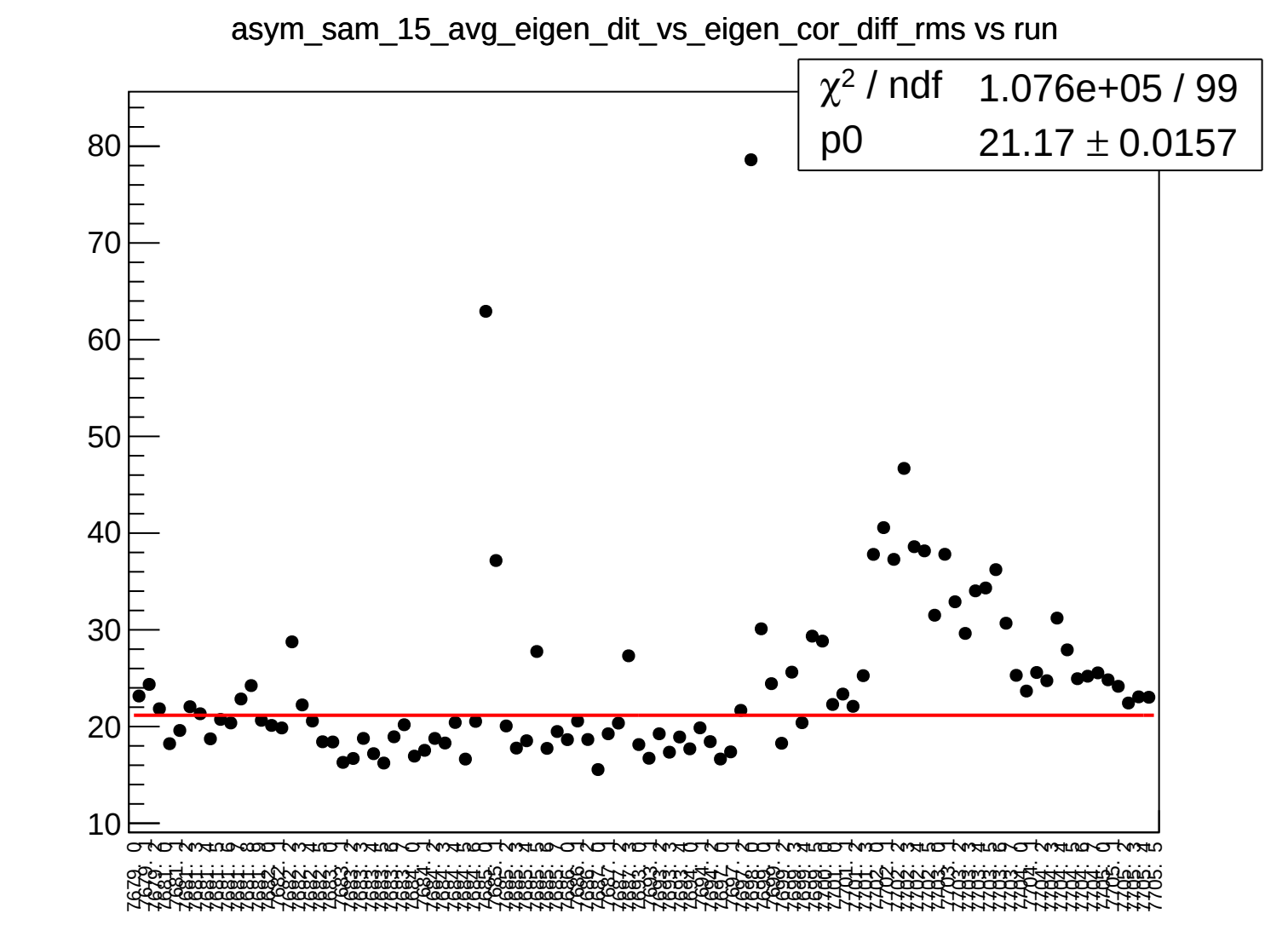

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.047e+04 / 99
p0 0.0026 ± 1.92e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002

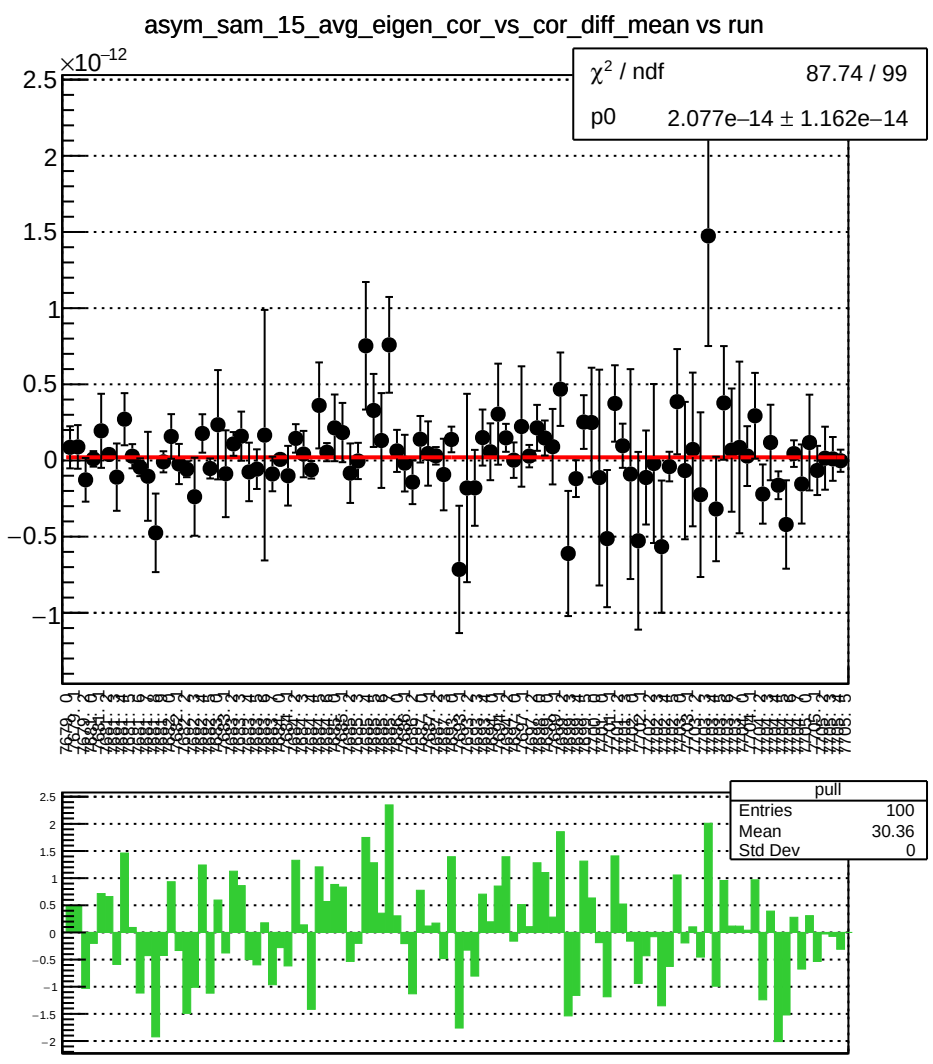

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.33 / 99
p0 0.004081 ± 0.0222
pull
Entries 100
Mean 681.1
Std Dev 0

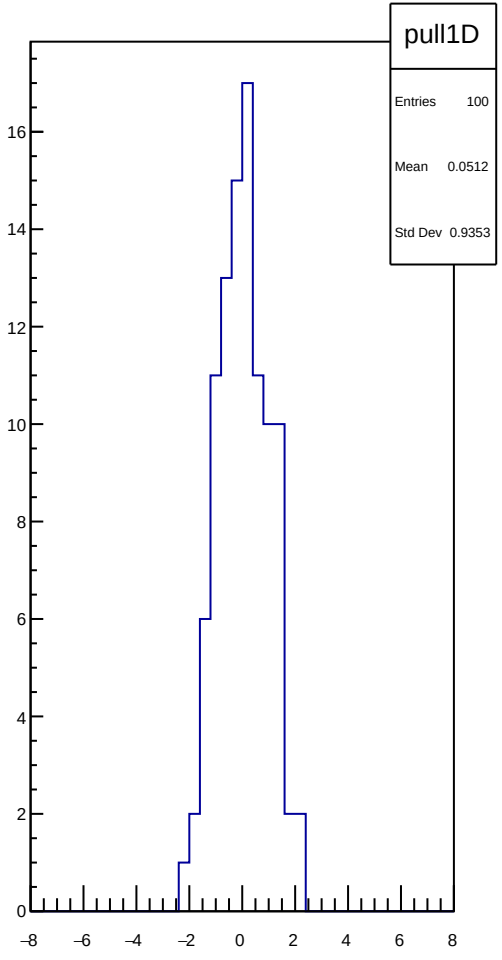

pull1D
Entries 100
Mean 0.001792
Std Dev 0.9291

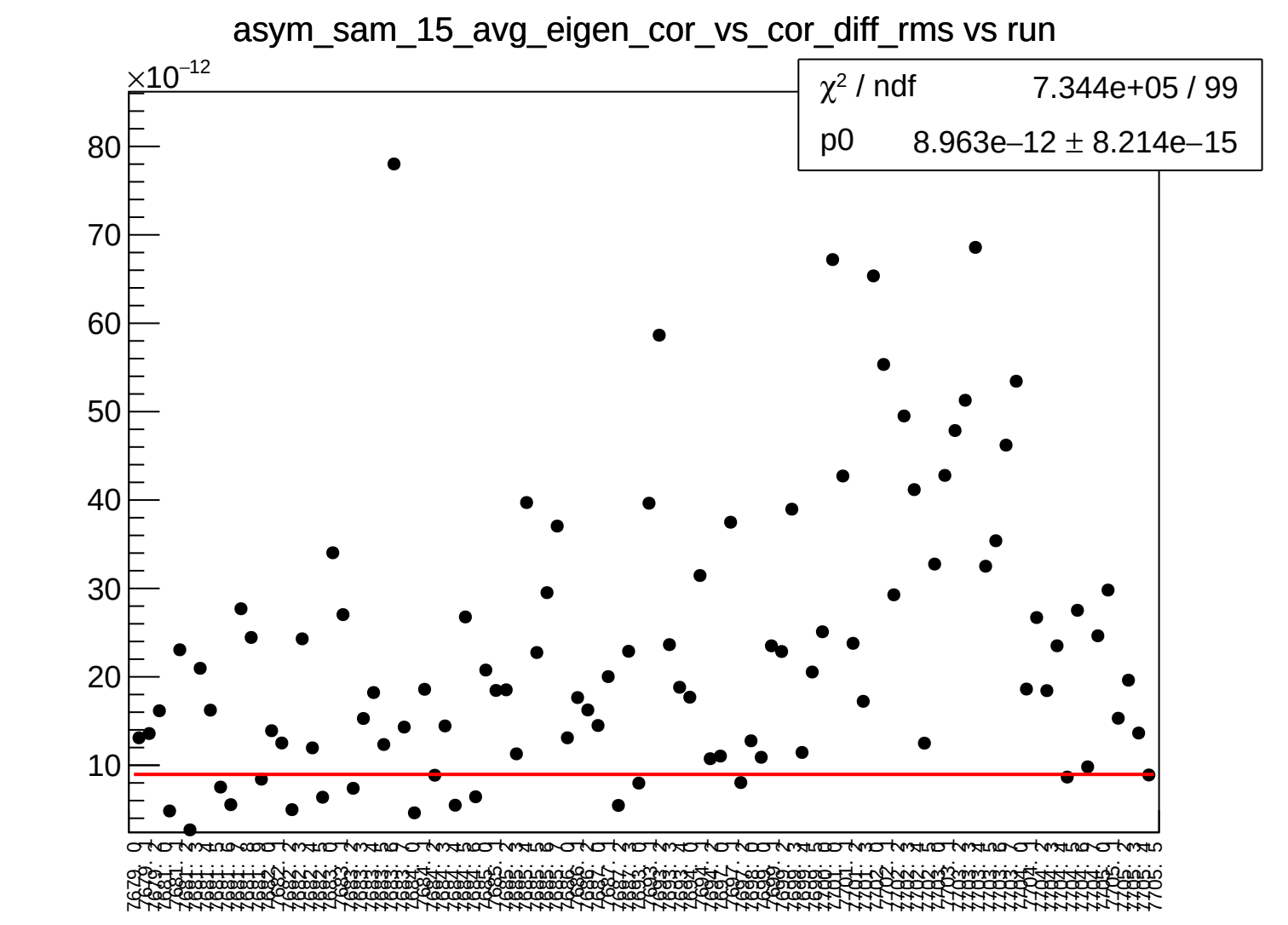

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.076e+05 / 99
p0 21.17 ± 0.0157
80
70
60
50
40
30
20
10

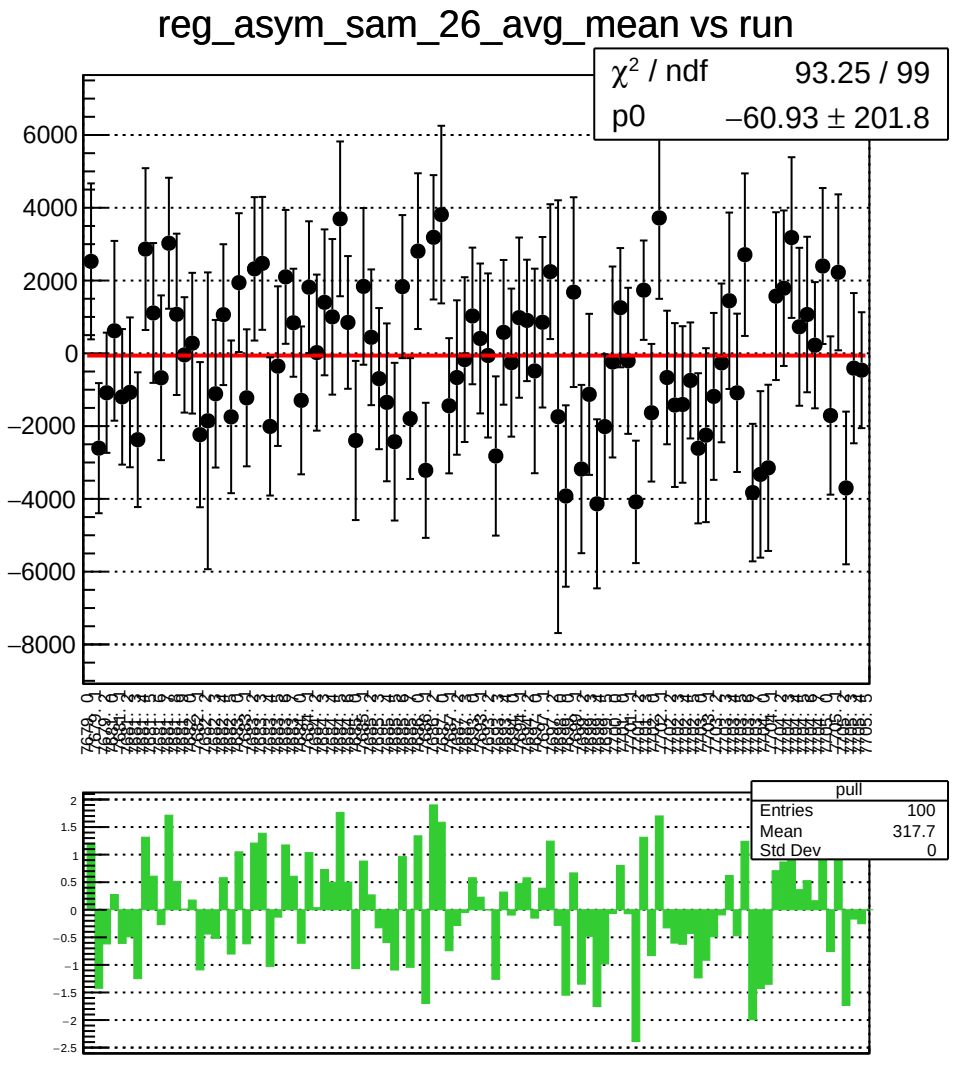

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.33 / 99
p0 0.004081 ± 0.0222
pull
Entries 100
Mean 681.1
Std Dev 0
pull1D
Entries 100
Mean 0.001792
Std Dev 0.9291

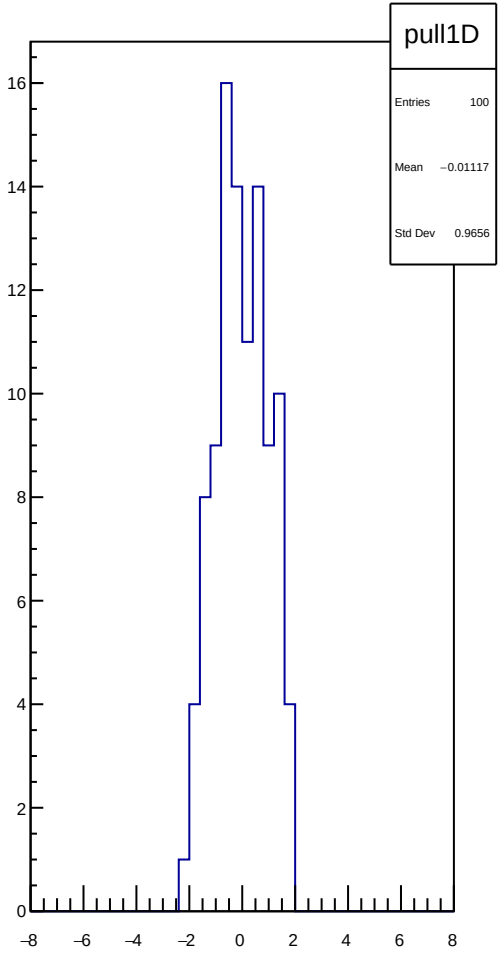

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.076e+05 / 99
p0 21.17 ± 0.0157
80
70
60
50
40
30
20
10

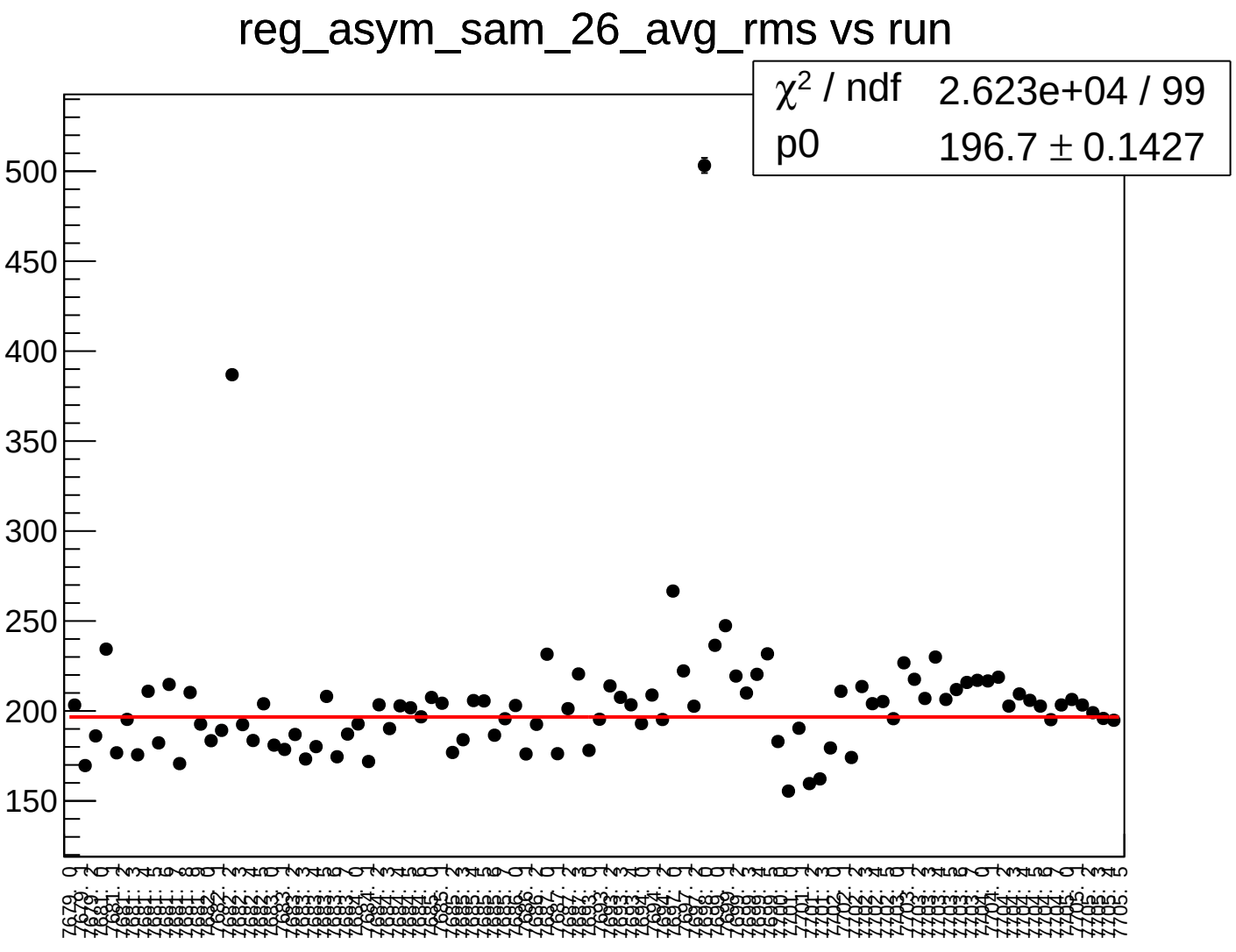

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.74 / 99
p0 2.077e−14 ± 1.162e−14
pull
Entries 100
Mean 30.36
Std Dev 0

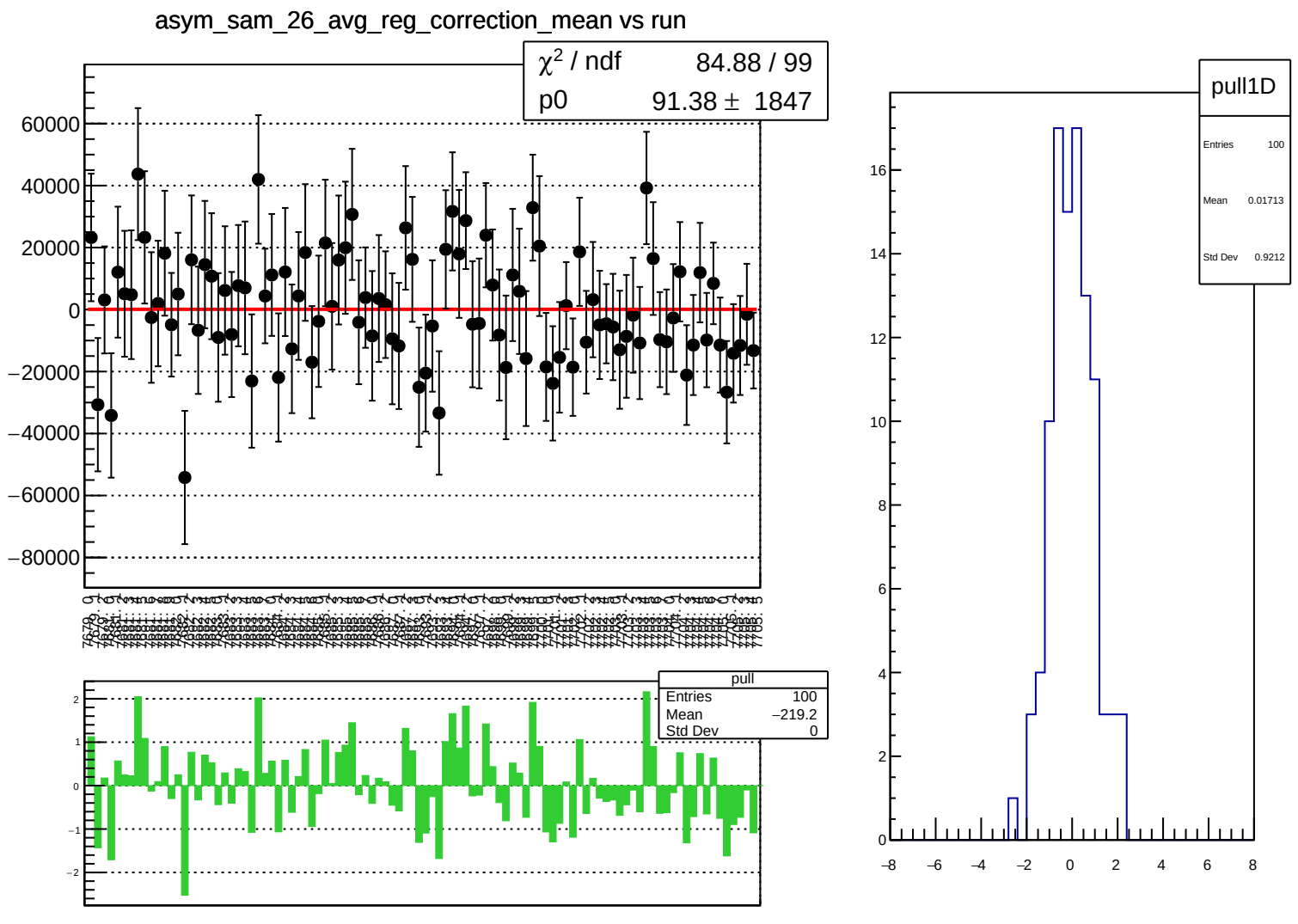

pull1D
Entries 100
Mean 0.0512
Std Dev 0.9353

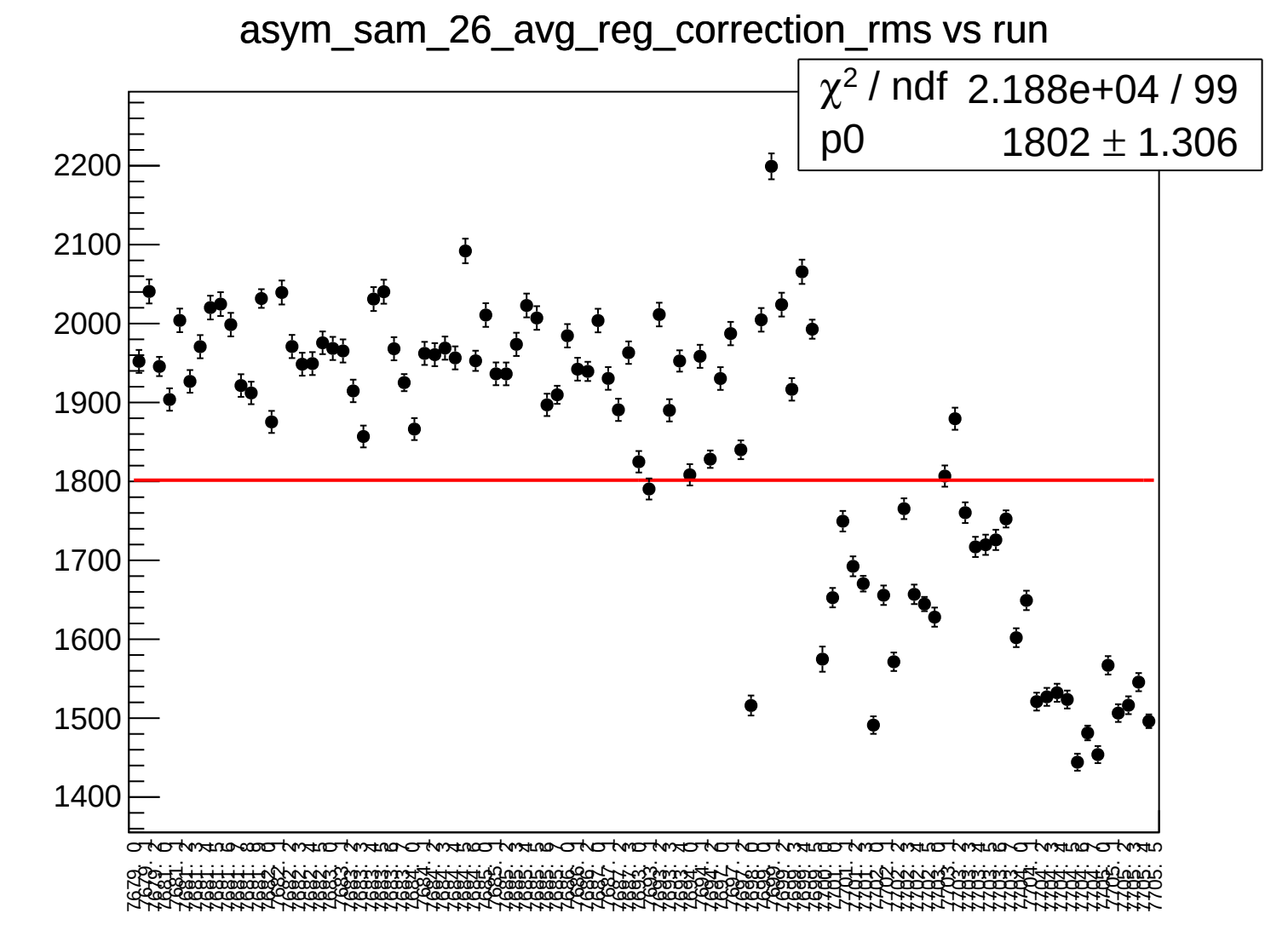

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.344e+05 / 99
p0 8.963e−12 ± 8.214e−15
80
70
60
50
40
30
20
10

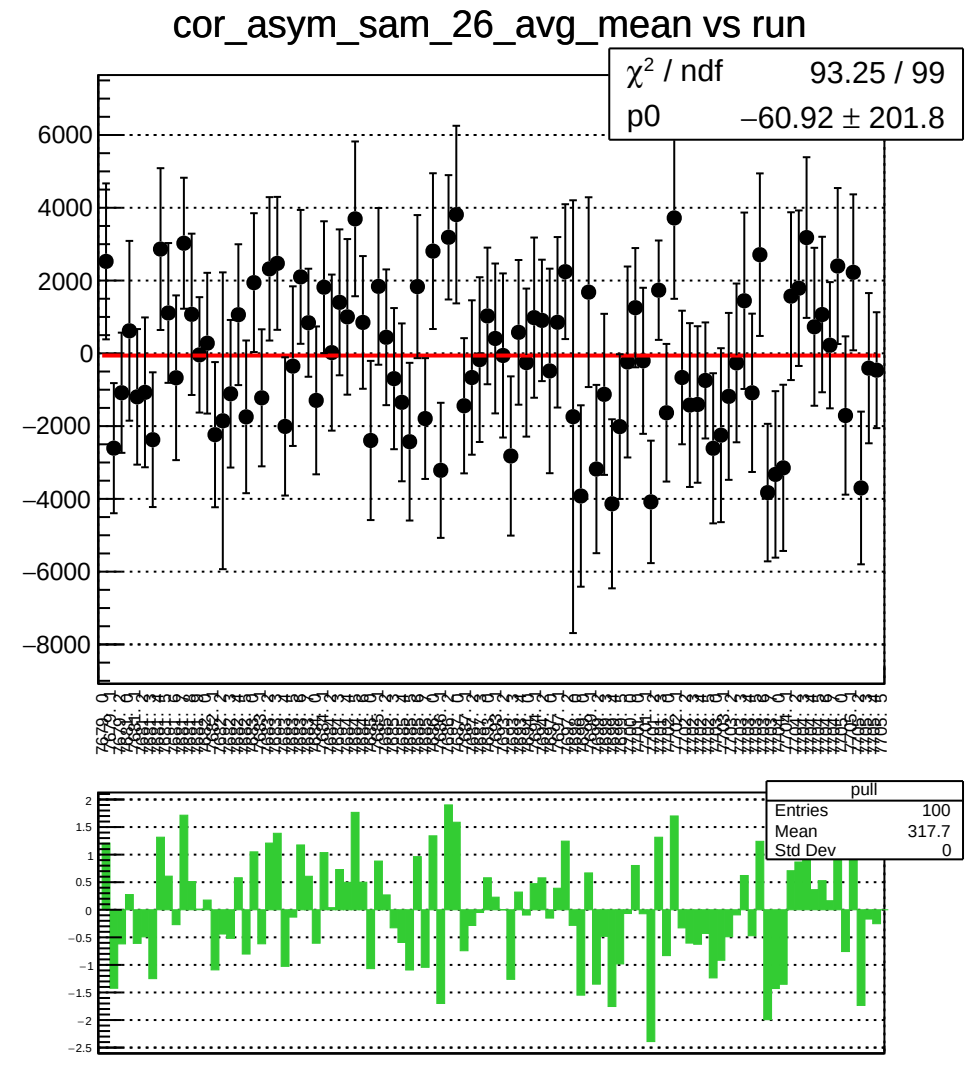

reg_asym_sam_26_avg_mean vs run
χ² / ndf 93.25 / 99
p0 −60.93 ± 201.8
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 100
Mean 317.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

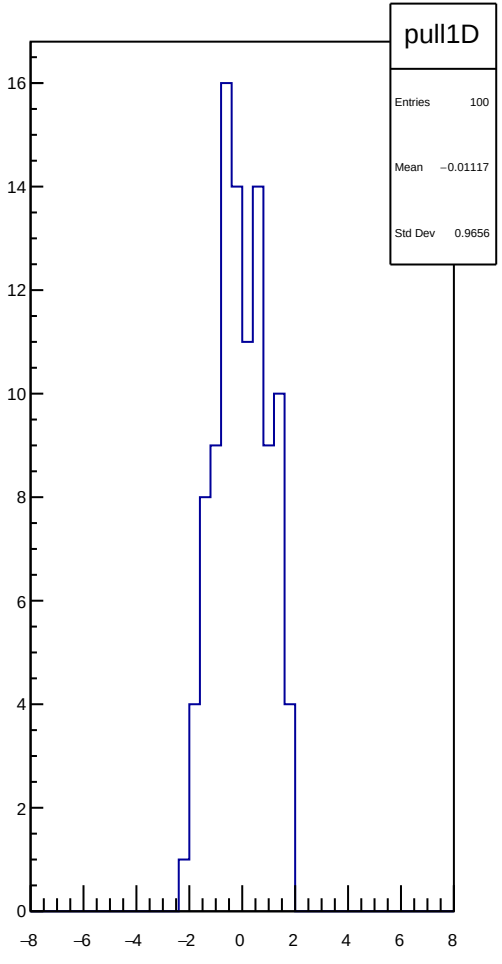

pull1D
Entries 100
Mean −0.01117
Std Dev 0.9656
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

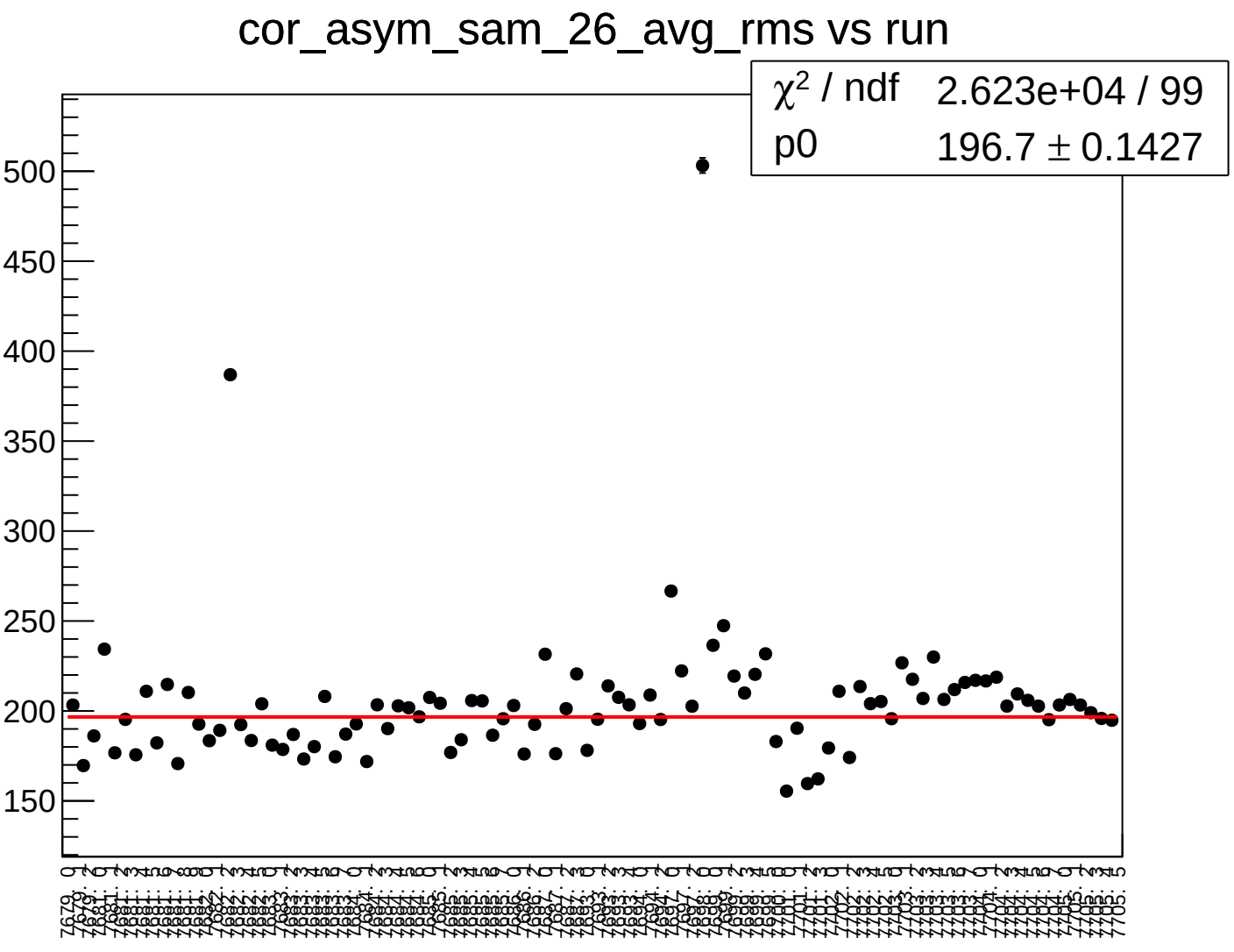

reg_asym_sam_26_avg_rms vs run
χ² / ndf 2.623e+04 / 99
p0 196.7 ± 0.1427
500
450
400
350
300
250
200
150

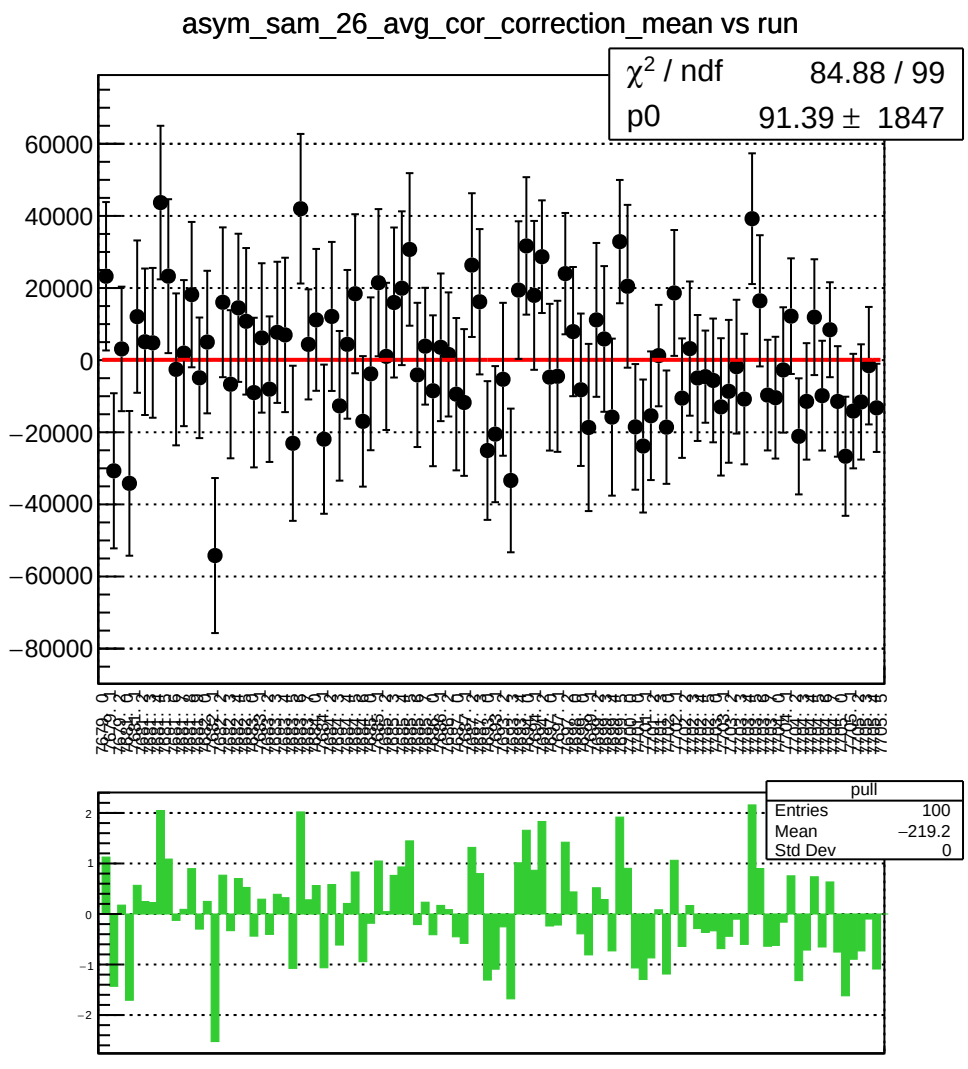

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 84.88 / 99
p0 91.38 ± 1847
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −219.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.01713
Std Dev 0.9212
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

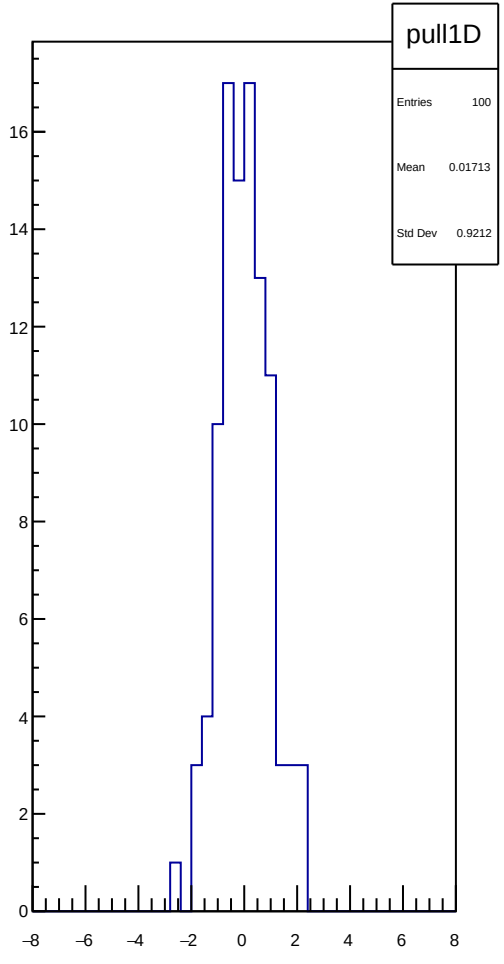

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 2.188e+04 / 99
p0 1802 ± 1.306
2200
2100
2000
1900
1800
1700
1600
1500
1400

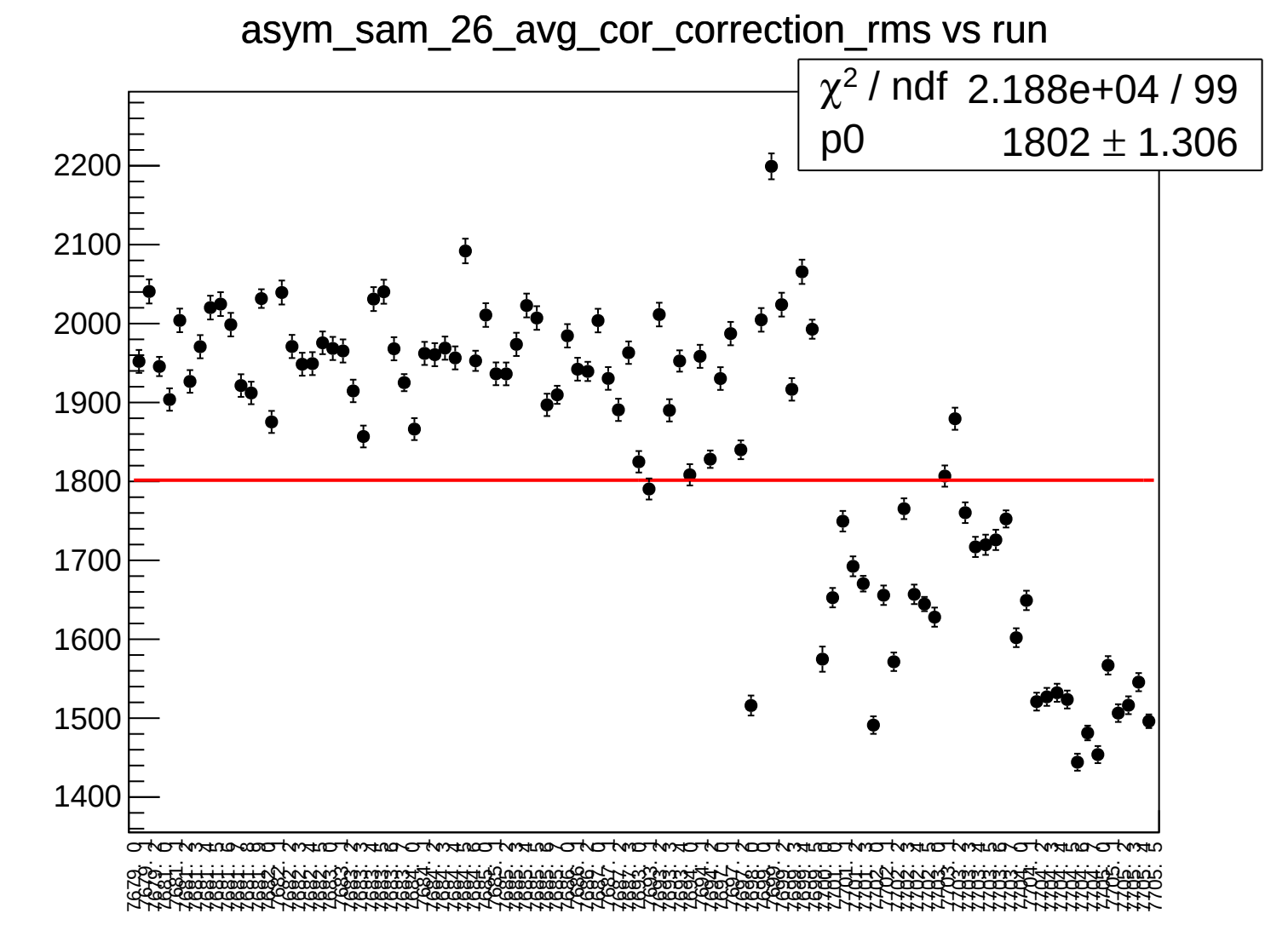

cor_asym_sam_26_avg_mean vs run
χ² / ndf 93.25 / 99
p0 −60.92 ± 201.8
pull
Entries 100
Mean 317.7
Std Dev 0

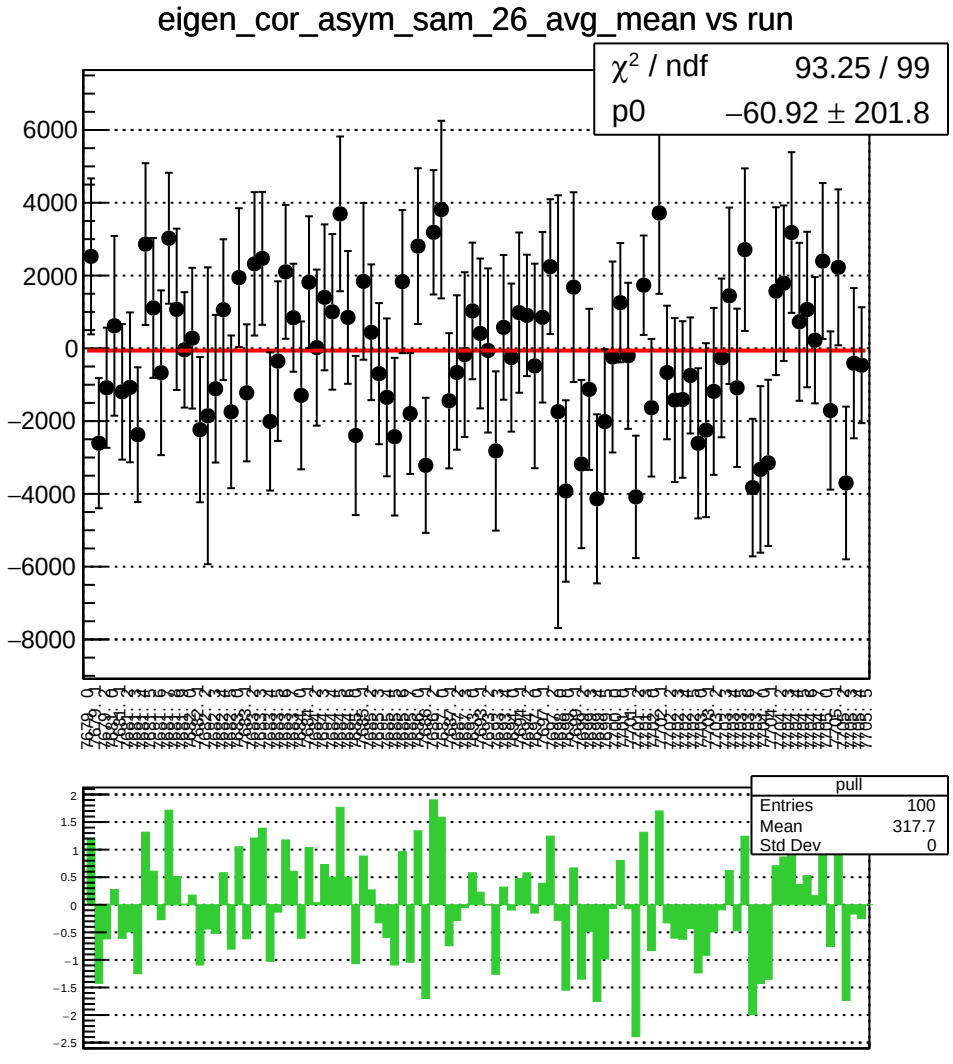

pull1D
Entries 100
Mean −0.01117
Std Dev 0.9656

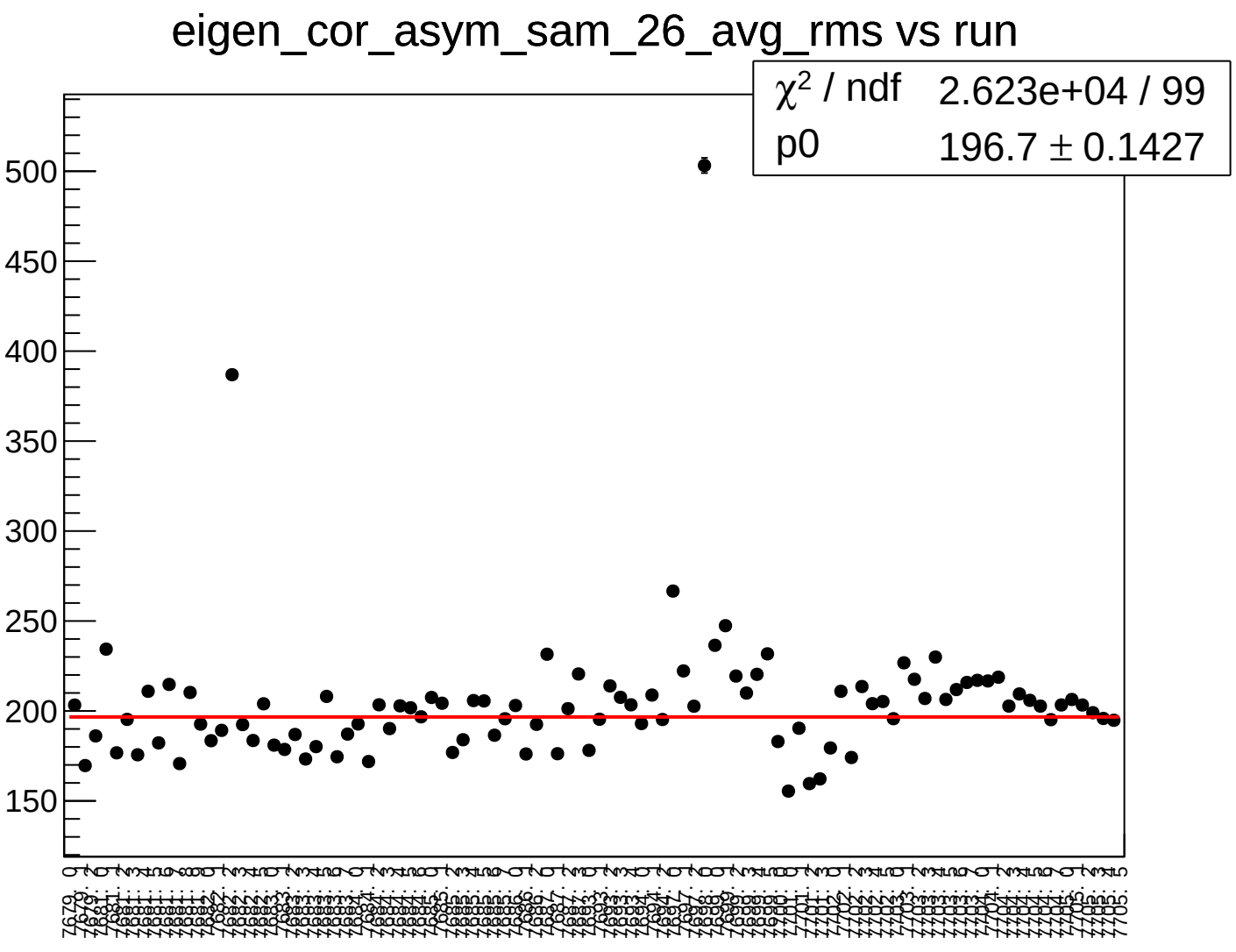

cor_asym_sam_26_avg_rms vs run
χ² / ndf 2.623e+04 / 99
p0 196.7 ± 0.1427
500
450
400
350
300
250
200
150

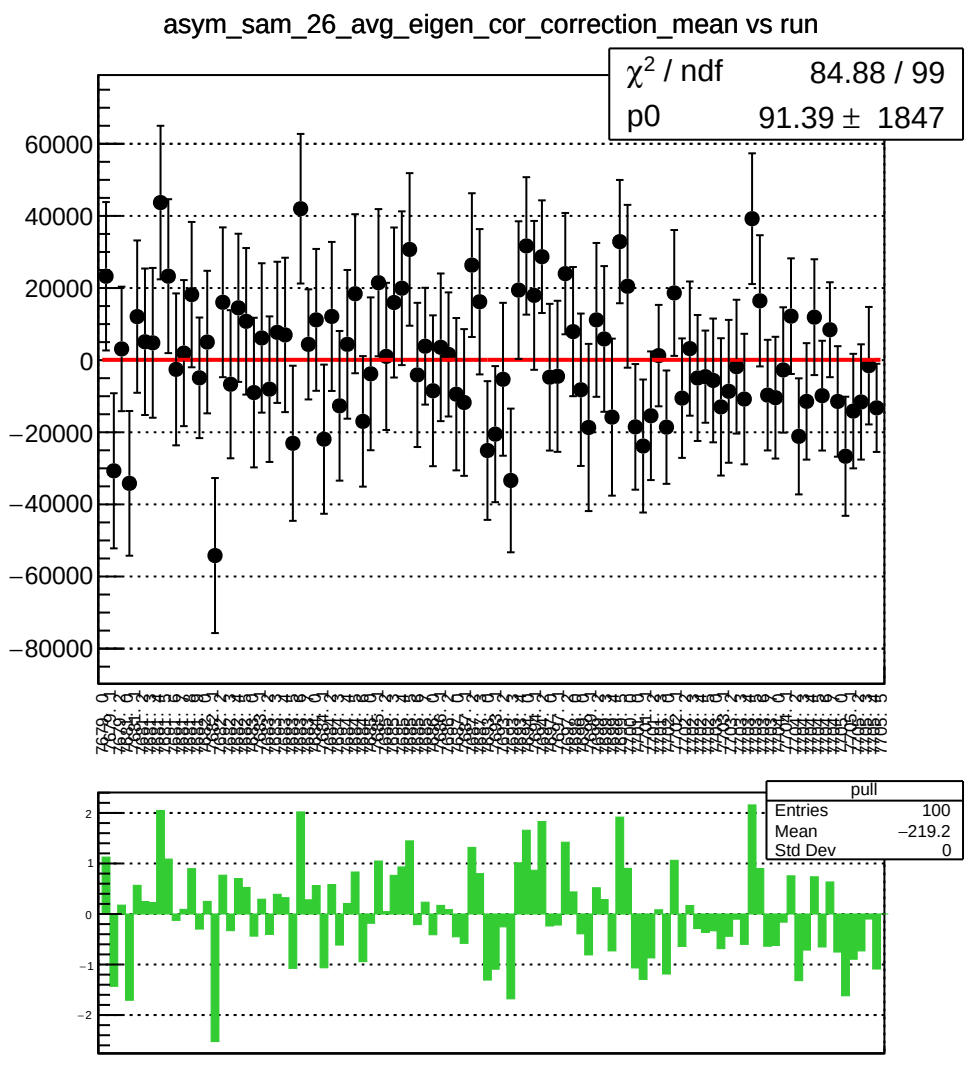

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 84.88 / 99
p0 91.39 ± 1847
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −219.2
Std Dev 0
2
1
0
−1
−2

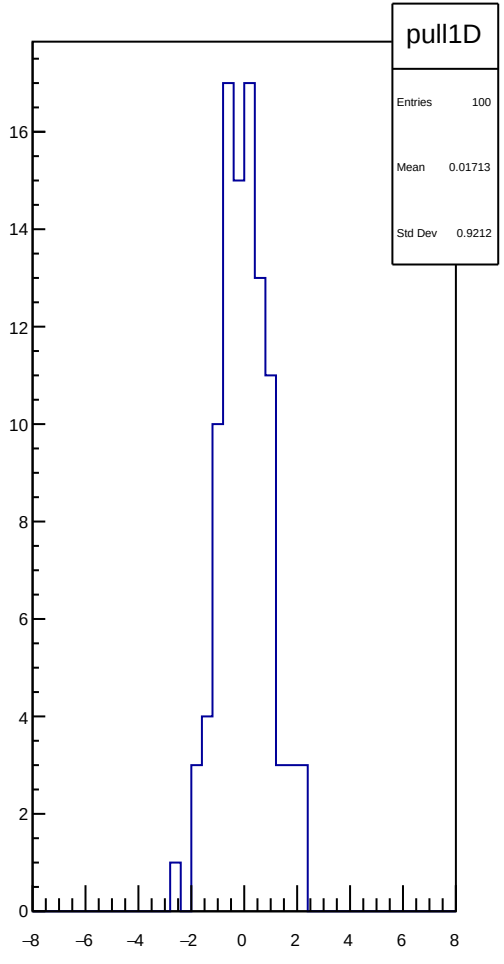

pull1D
Entries 100
Mean 0.01713
Std Dev 0.9212
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

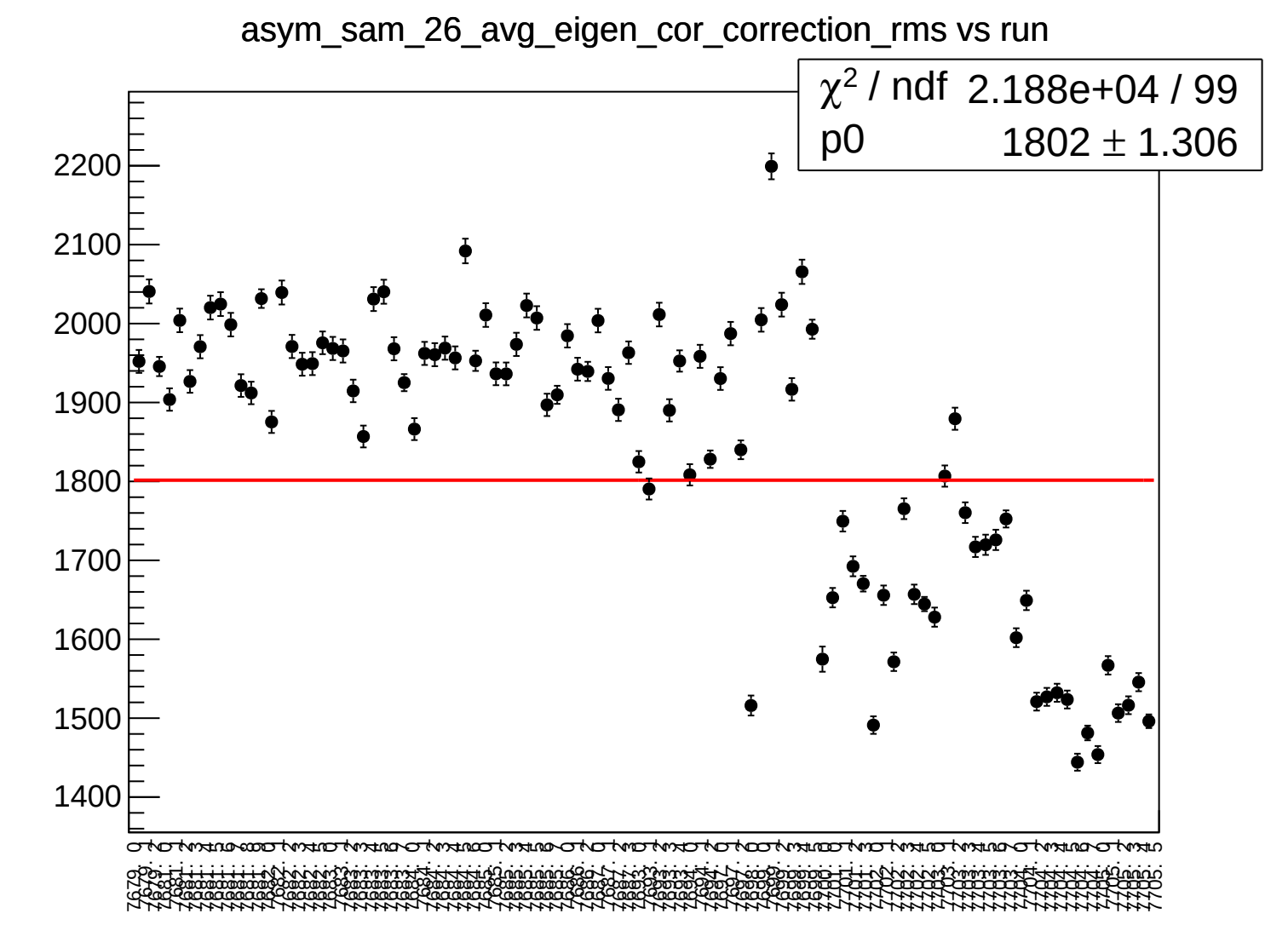

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 2.188e+04 / 99
p0 1802 ± 1.306
2200
2100
2000
1900
1800
1700
1600
1500
1400

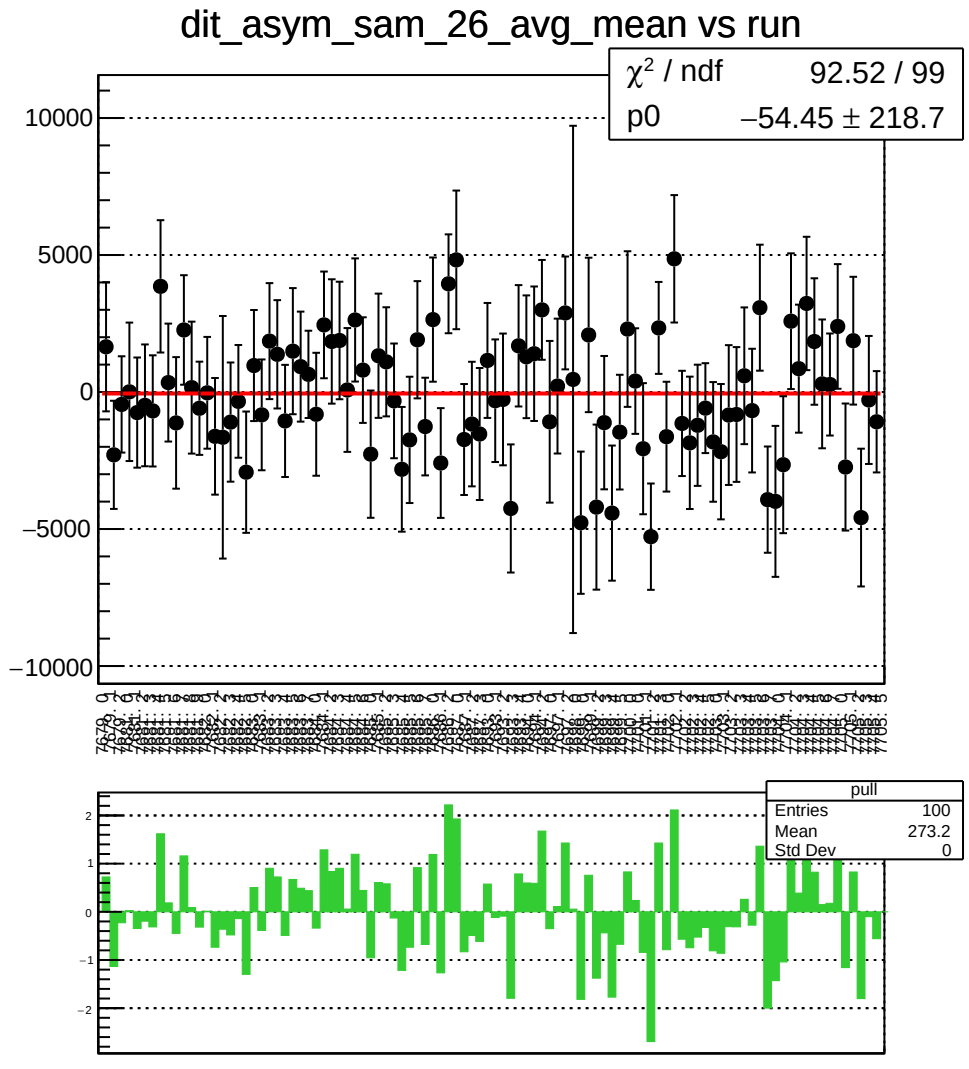

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 93.25 / 99
p0 −60.92 ± 201.8
pull
Entries 100
Mean 317.7
Std Dev 0
pull1D
Entries 100
Mean −0.01117
Std Dev 0.9656

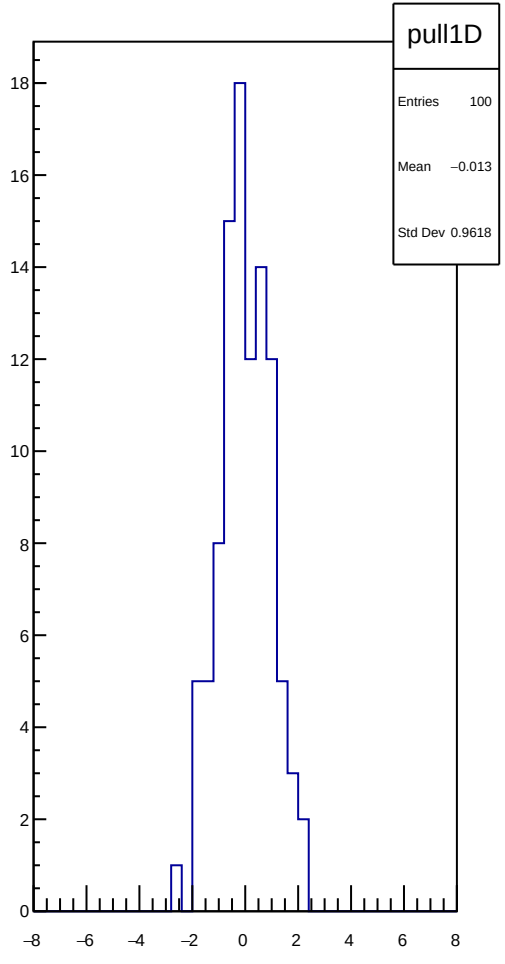

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 2.623e+04 / 99
p0 196.7 ± 0.1427
500
450
400
350
300
250
200
150

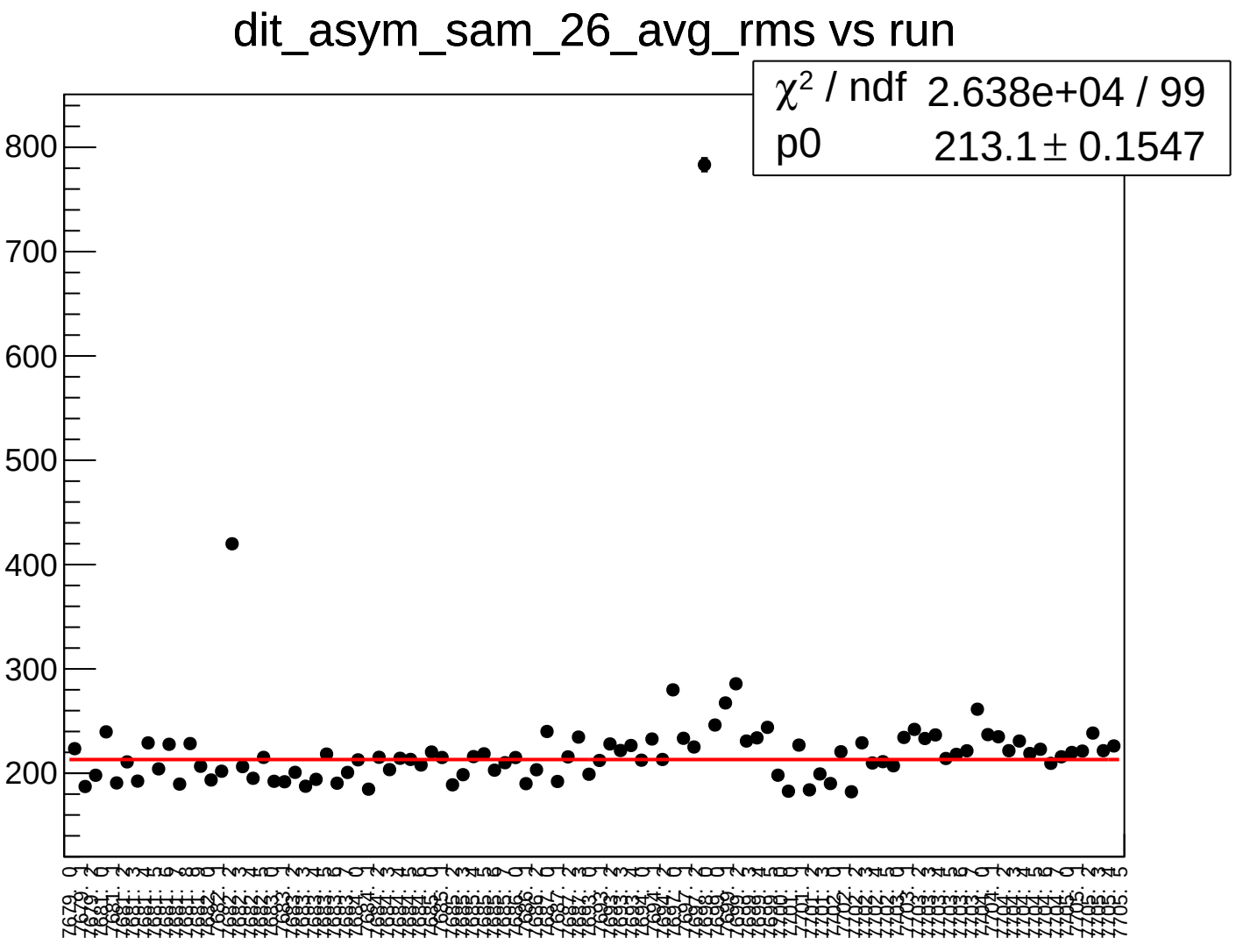

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 84.88 / 99
p0 91.39 ± 1847
pull
Entries 100
Mean −219.2
Std Dev 0

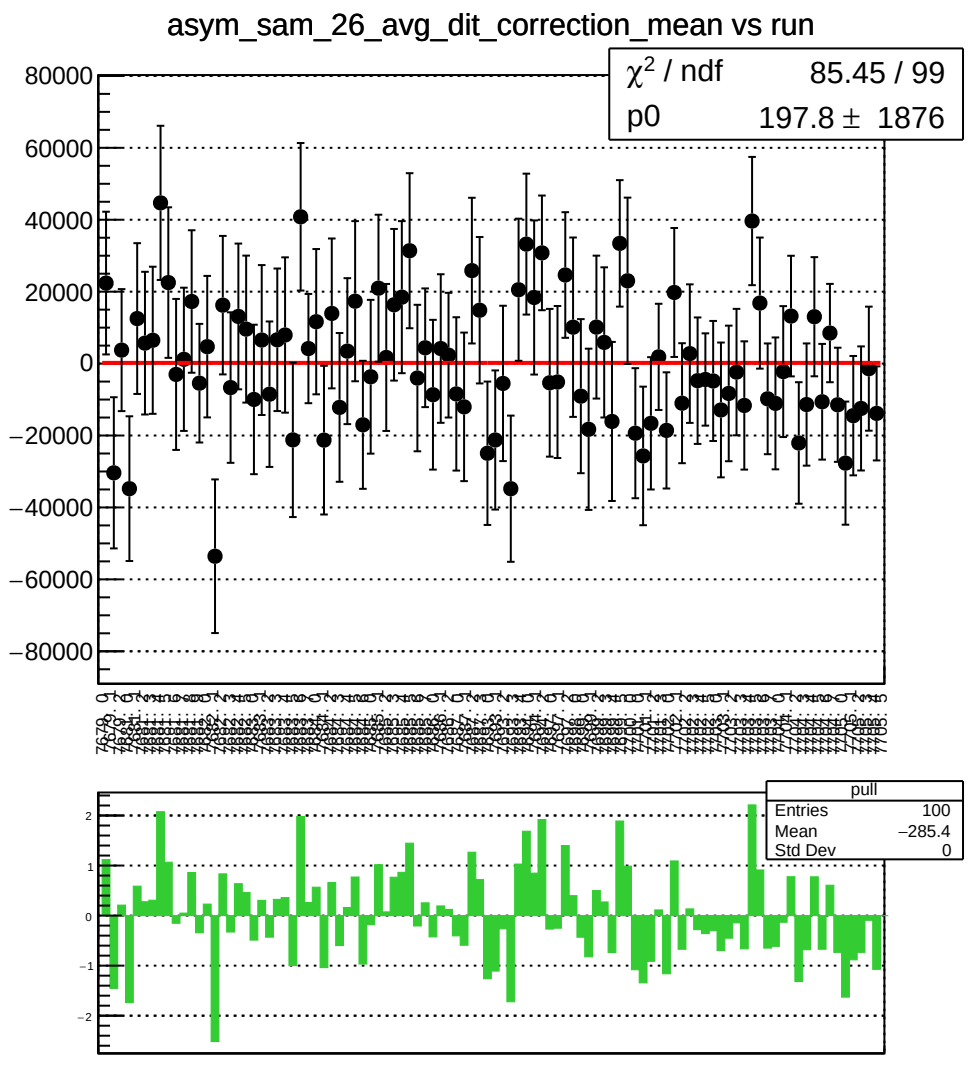

pull1D
Entries 100
Mean 0.01713
Std Dev 0.9212

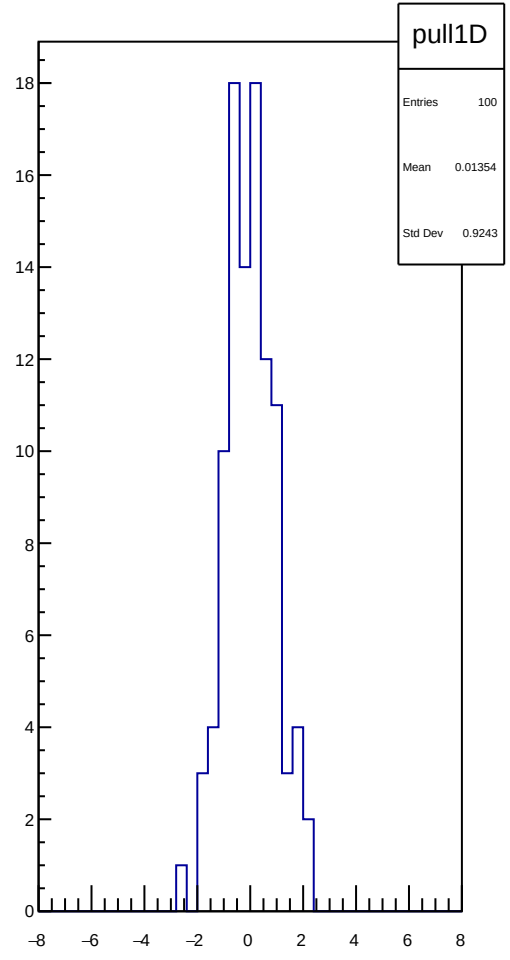

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.188e+04 / 99
p0 1802 ± 1.306
2200
2100
2000
1900
1800
1700
1600
1500
1400

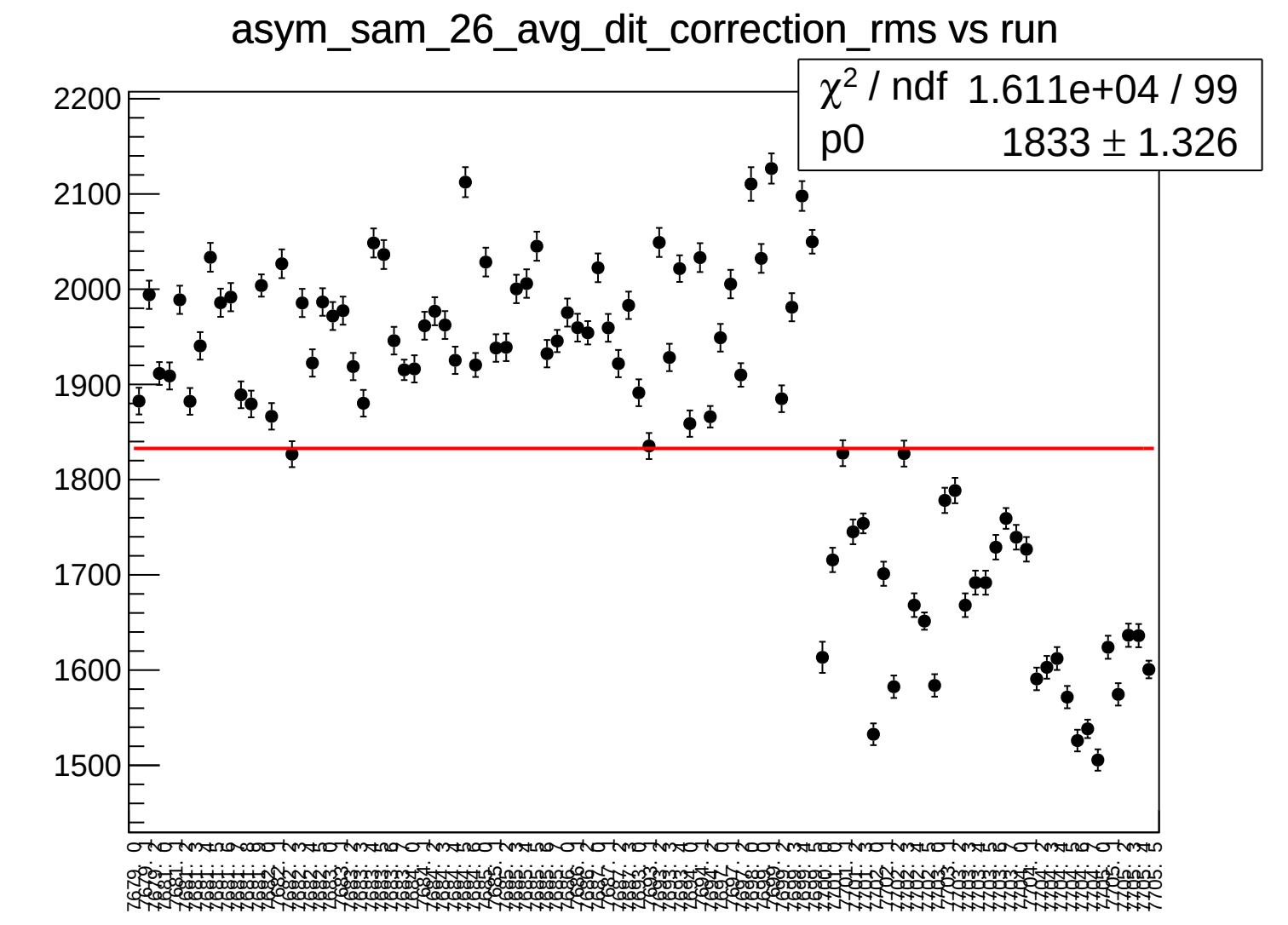

dit_asym_sam_26_avg_mean vs run
χ² / ndf 92.52 / 99
p0 −54.45 ± 218.7
10000
5000
0
−5000
−10000
pull
Entries 100
Mean 273.2
Std Dev 0
2
1
0
−1
−2

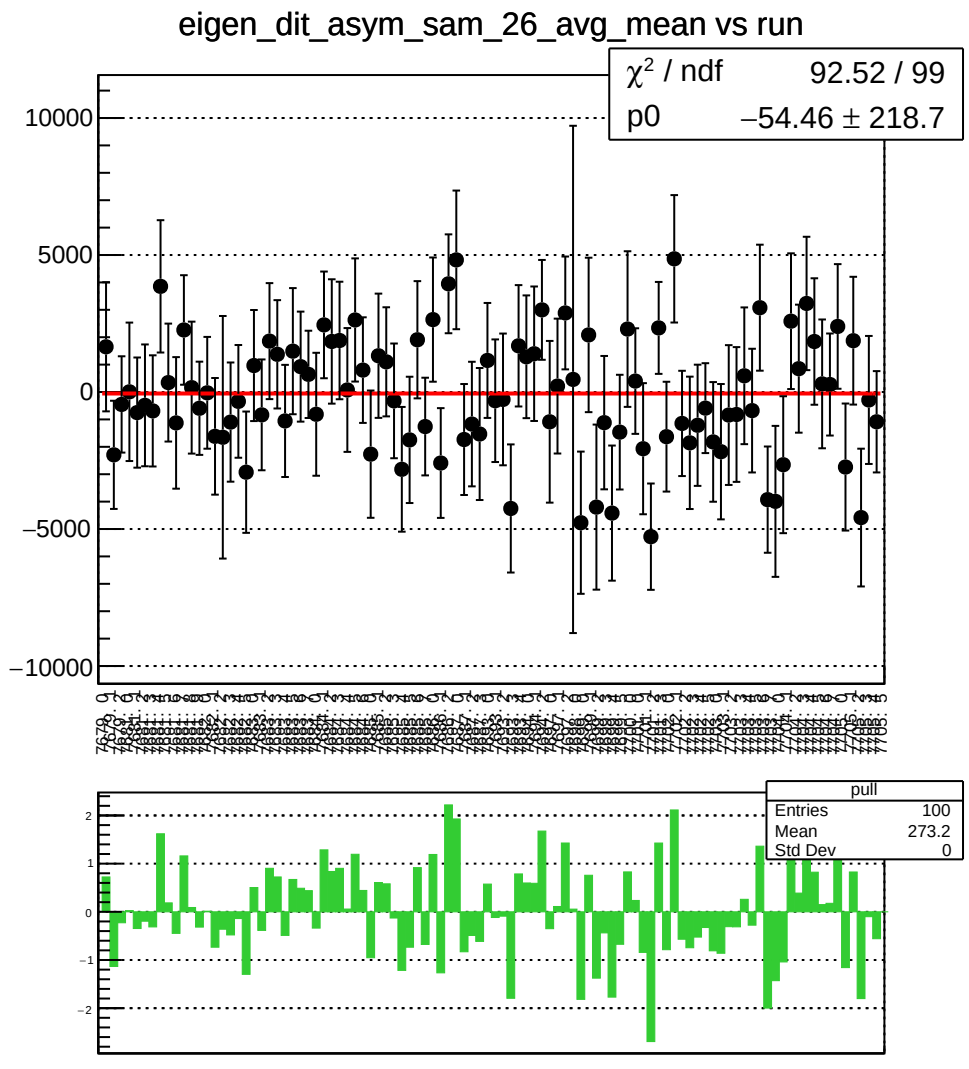

pull1D
Entries 100
Mean −0.013
Std Dev 0.9618
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

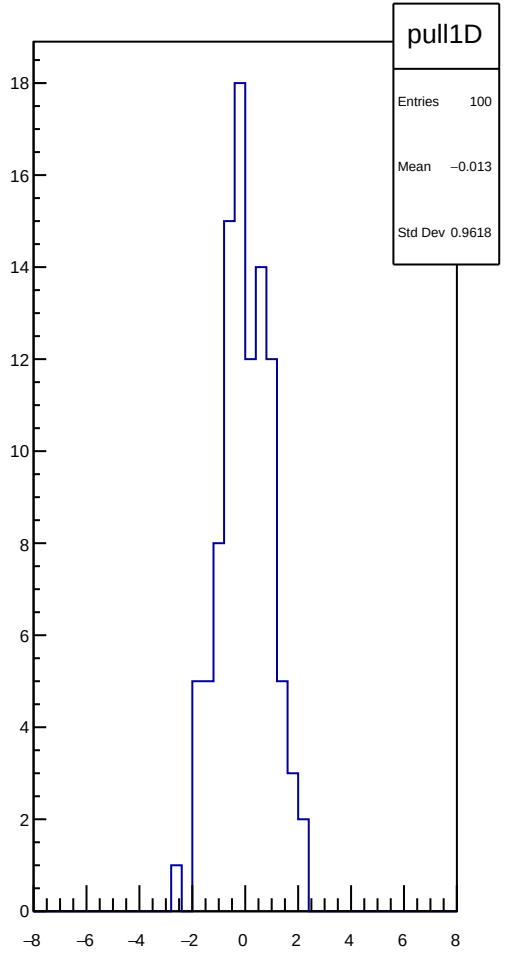

dit_asym_sam_26_avg_rms vs run
χ² / ndf 2.638e+04 / 99
p0 213.1 ± 0.1547
800
700
600
500
400
300
200

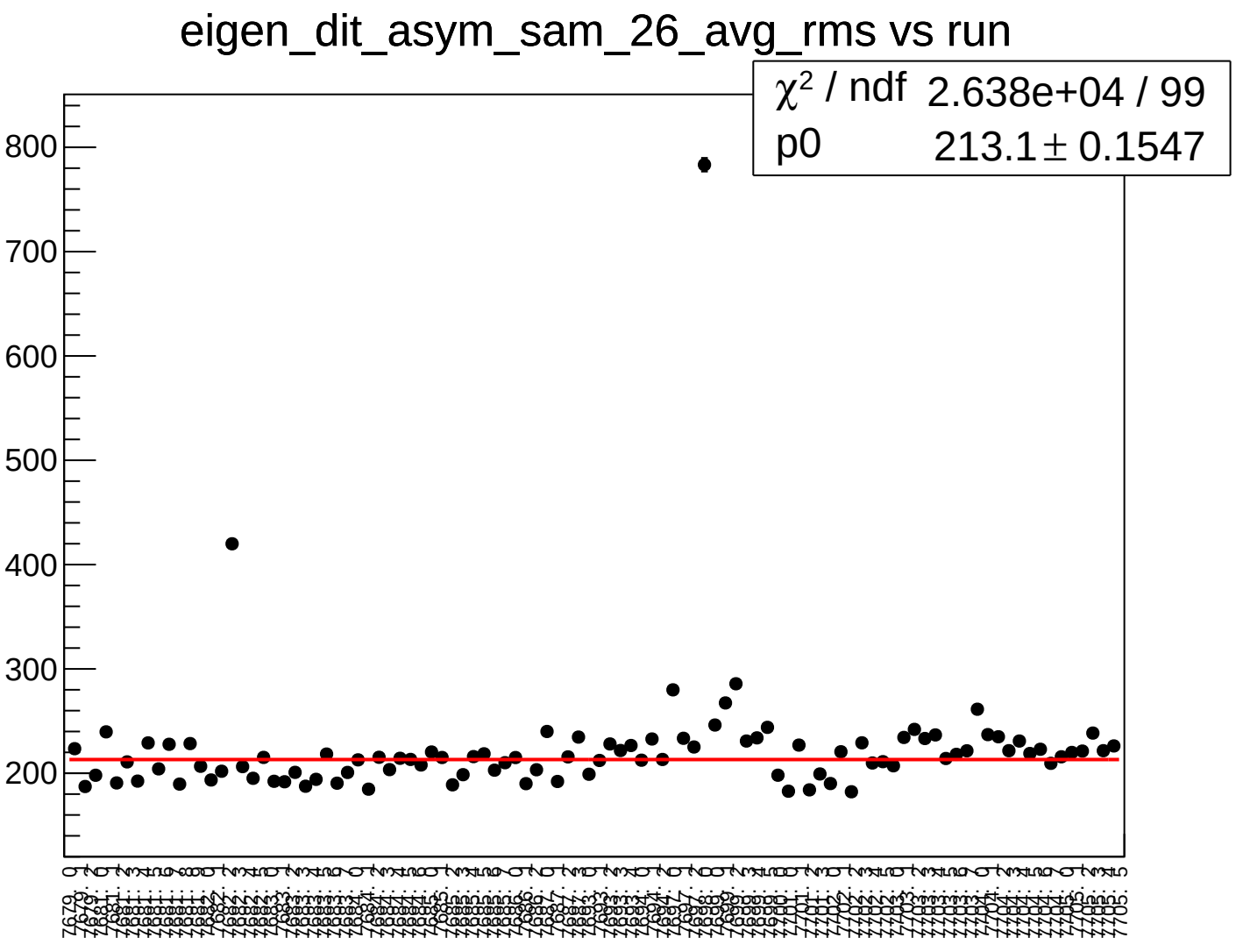

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 85.45 / 99
p0 197.8 ± 1876
pull
Entries 100
Mean −285.4
Std Dev 0

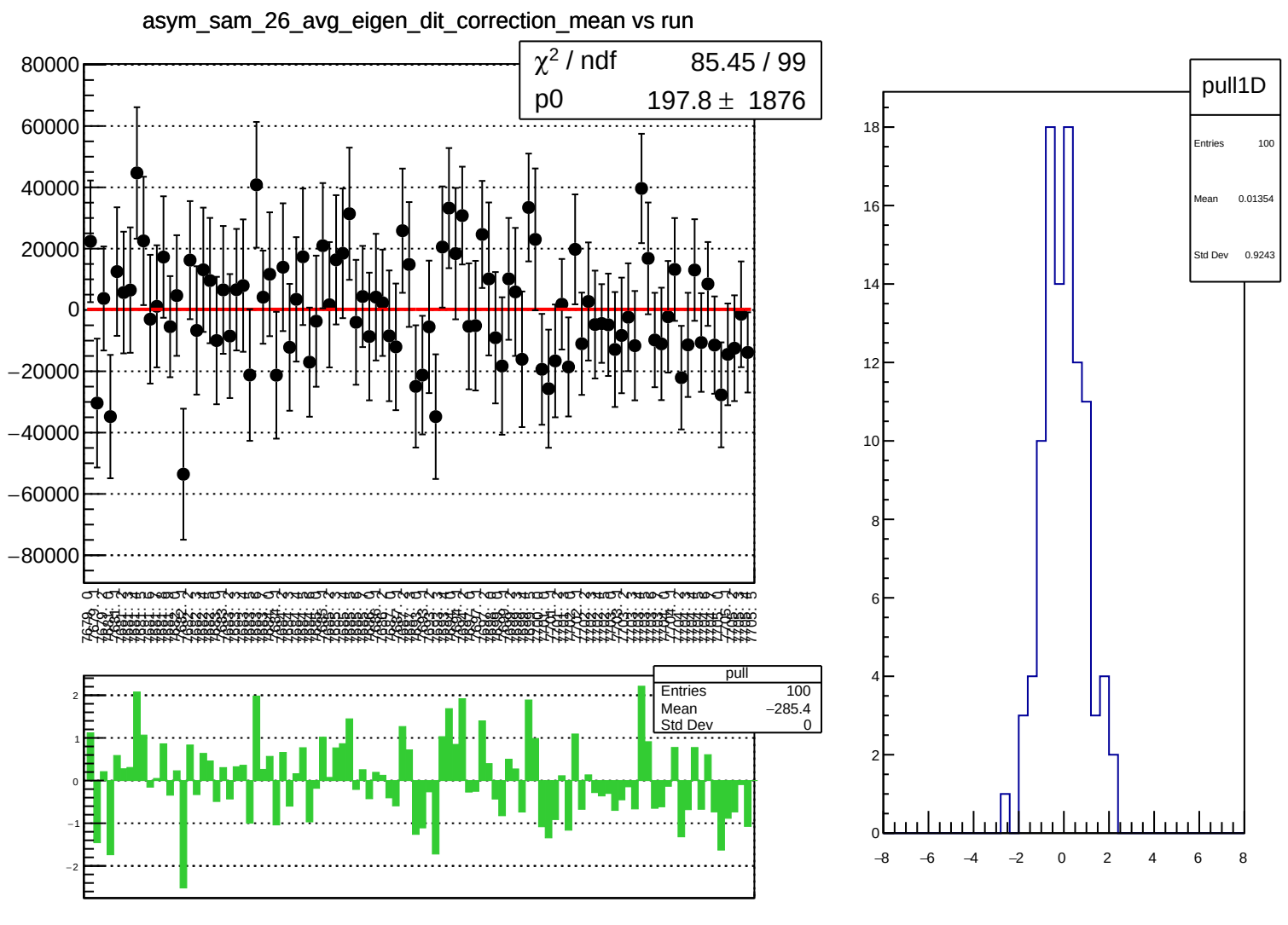

pull1D
Entries 100
Mean 0.01354
Std Dev 0.9243

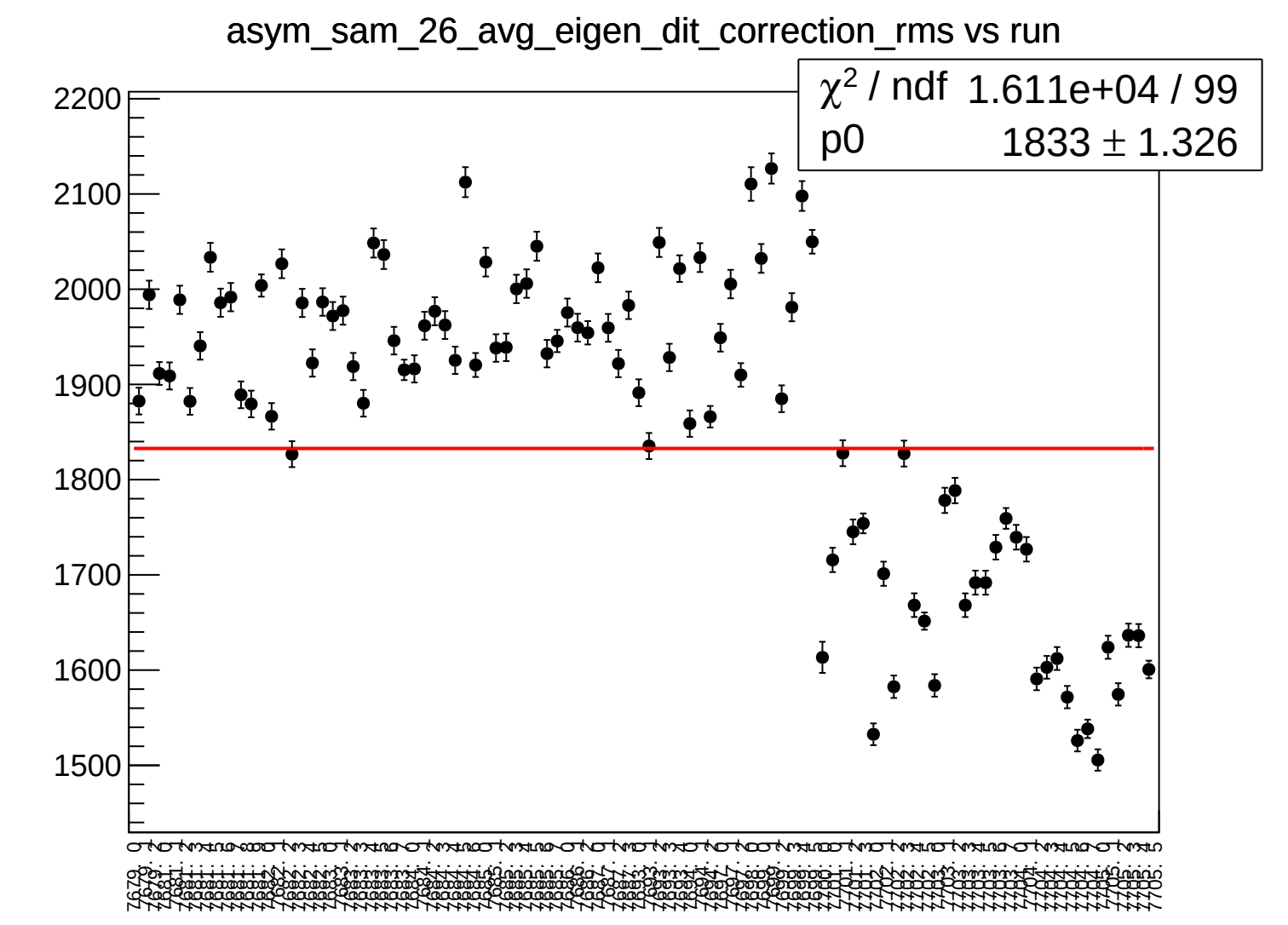

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 1.611e+04 / 99
p0 1833 ± 1.326
2200
2100
2000
1900
1800
1700
1600
1500

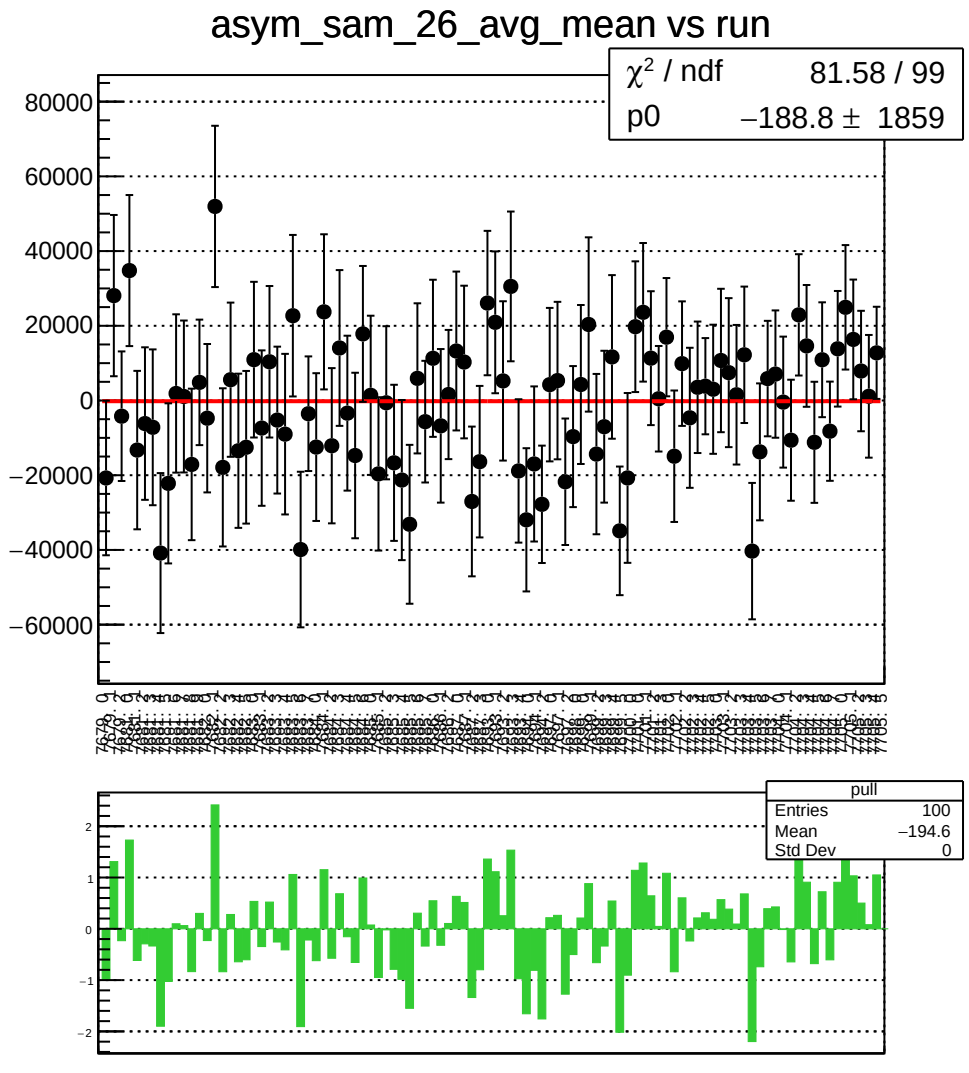

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 92.52 / 99
p0 −54.46 ± 218.7
10000
5000
0
−5000
−10000
pull
Entries 100
Mean 273.2
Std Dev 0
2
1
0
−1
−2

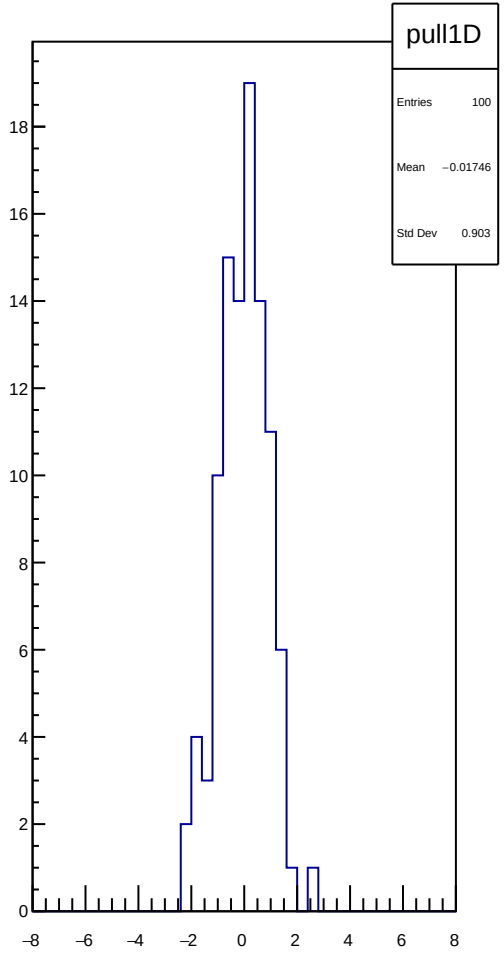

pull1D
Entries 100
Mean −0.013
Std Dev 0.9618
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

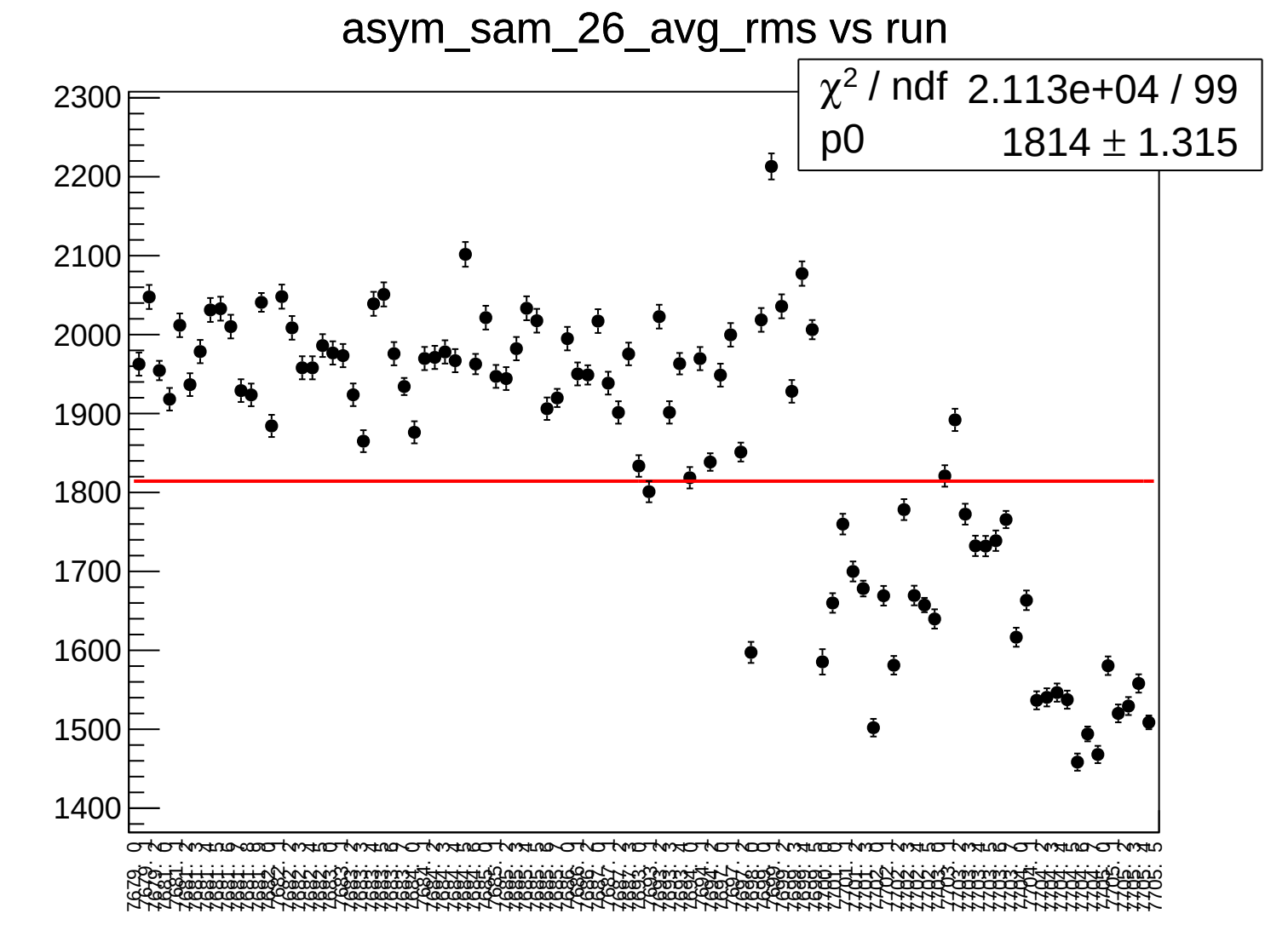

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 2.638e+04 / 99
p0 213.1 ± 0.1547
800
700
600
500
400
300
200

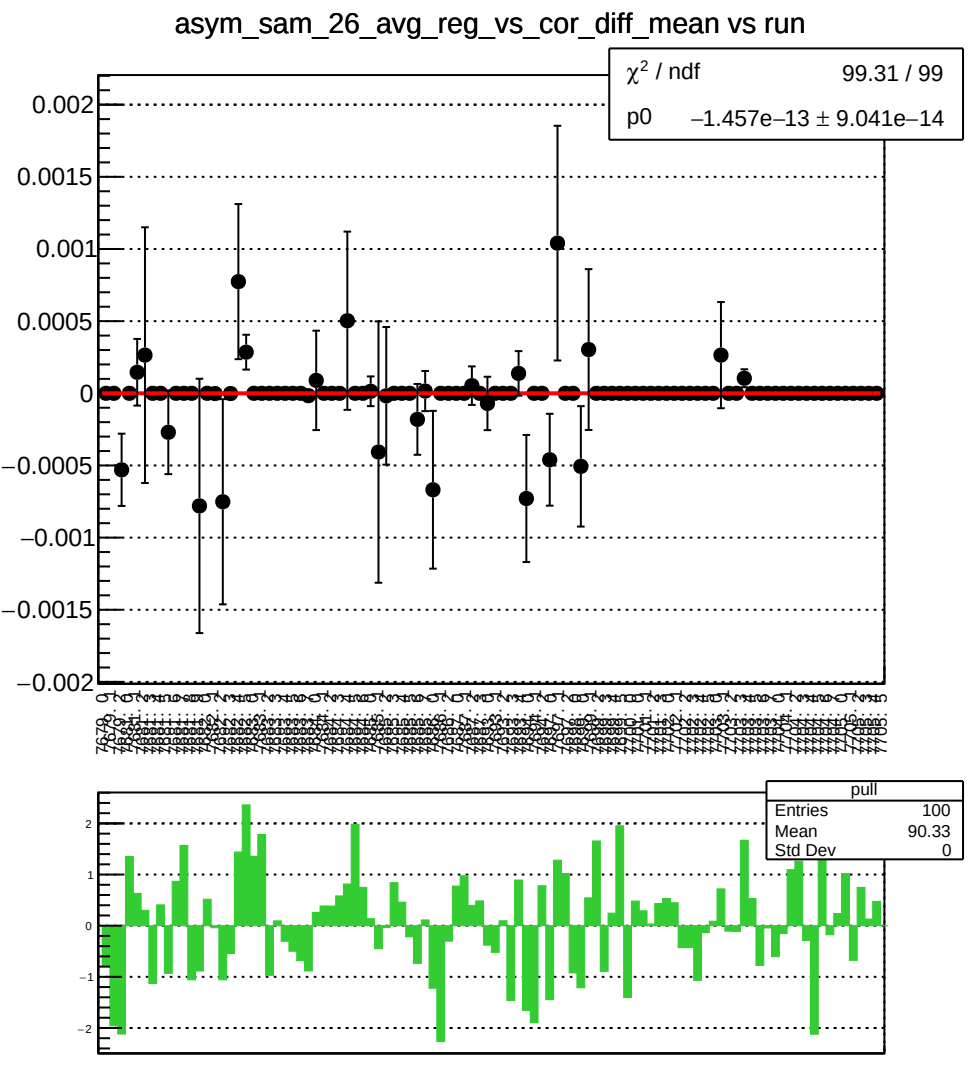

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 85.45 / 99
p0 197.8 ± 1876
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −285.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.01354
Std Dev 0.9243
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

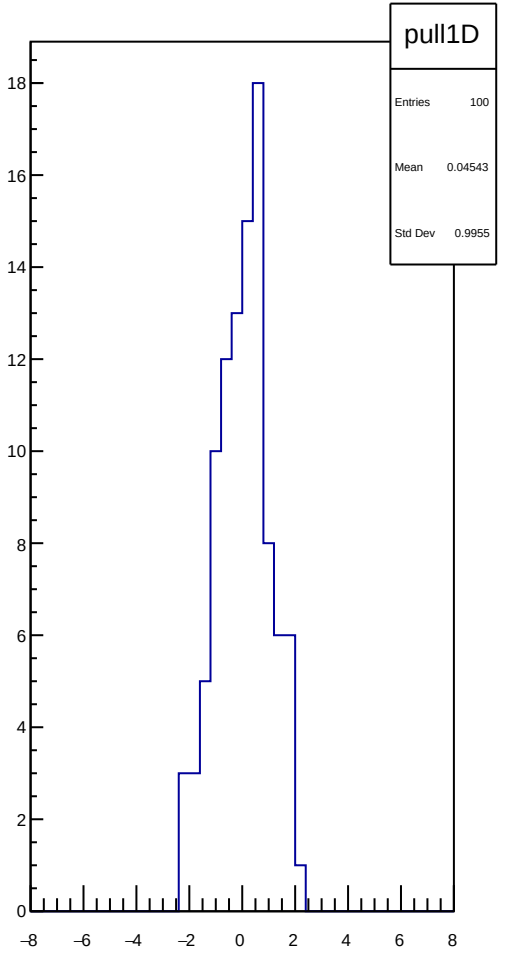

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.611e+04 / 99
p0 1833 ± 1.326
2200
2100
2000
1900
1800
1700
1600
1500

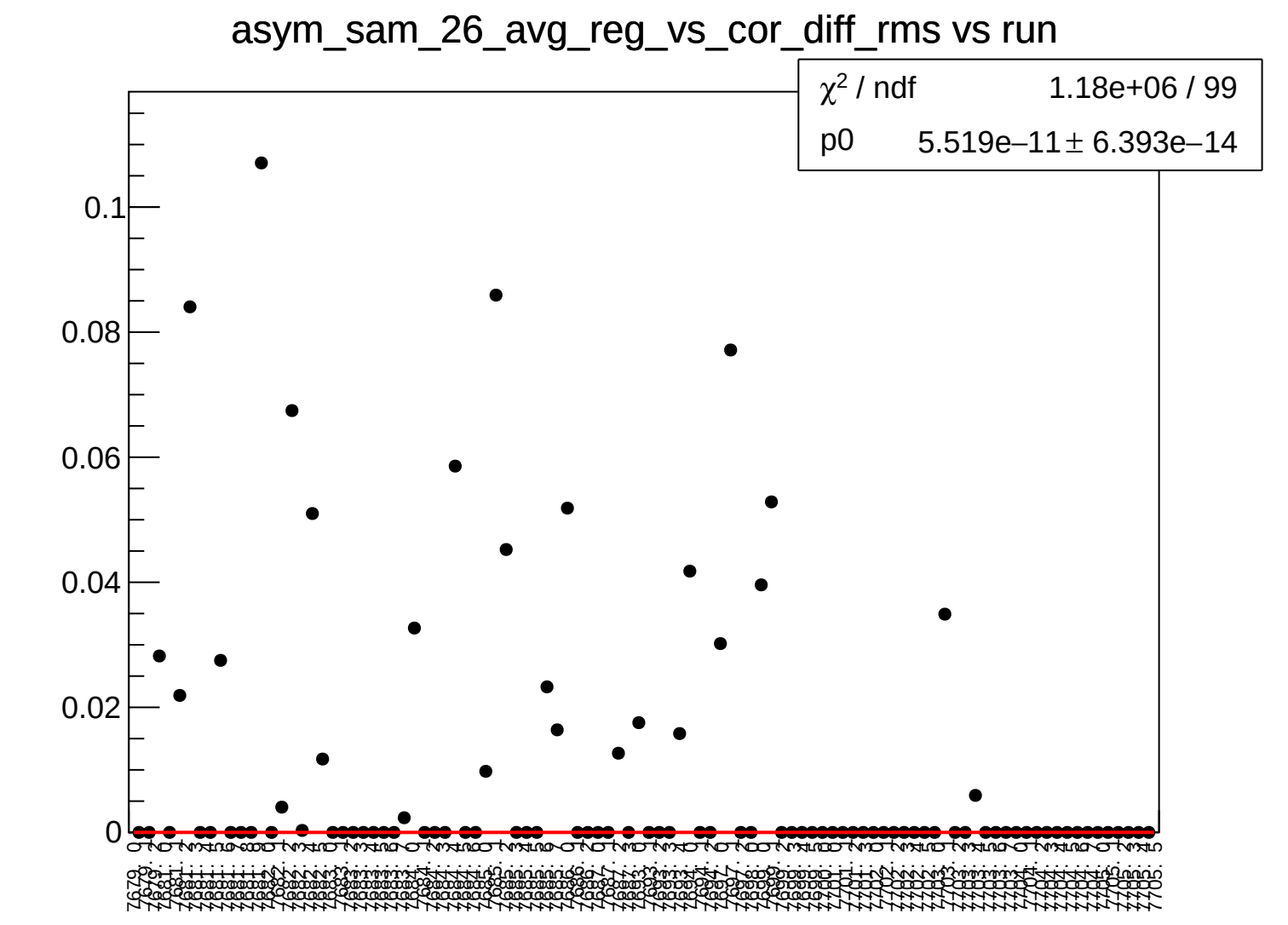

asym_sam_26_avg_mean vs run
χ² / ndf 81.58 / 99
p0 −188.8 ± 1859
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −194.6
Std Dev 0
2
1
0
−1
−2

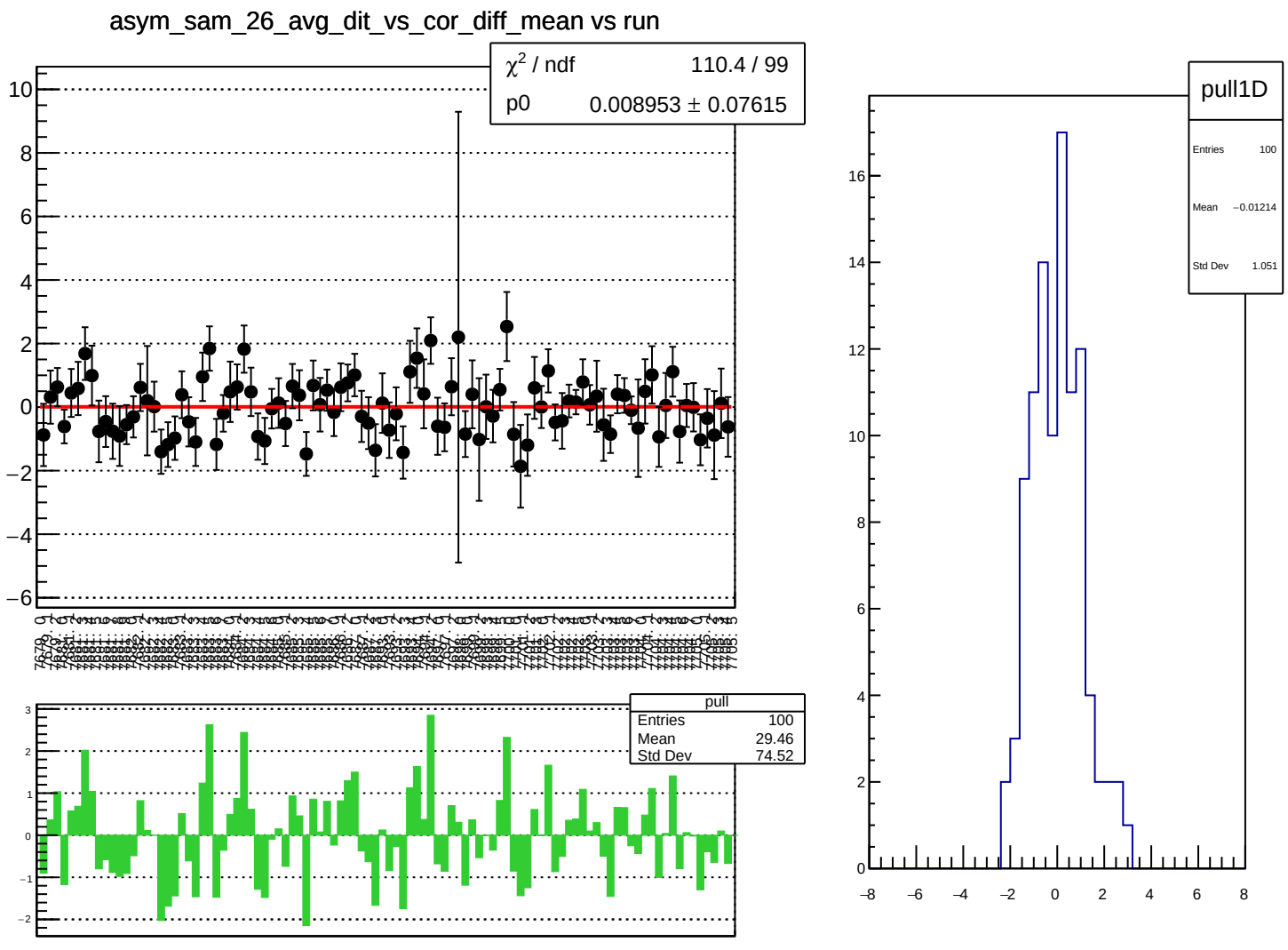

pull1D
Entries 100
Mean −0.01746
Std Dev 0.903
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

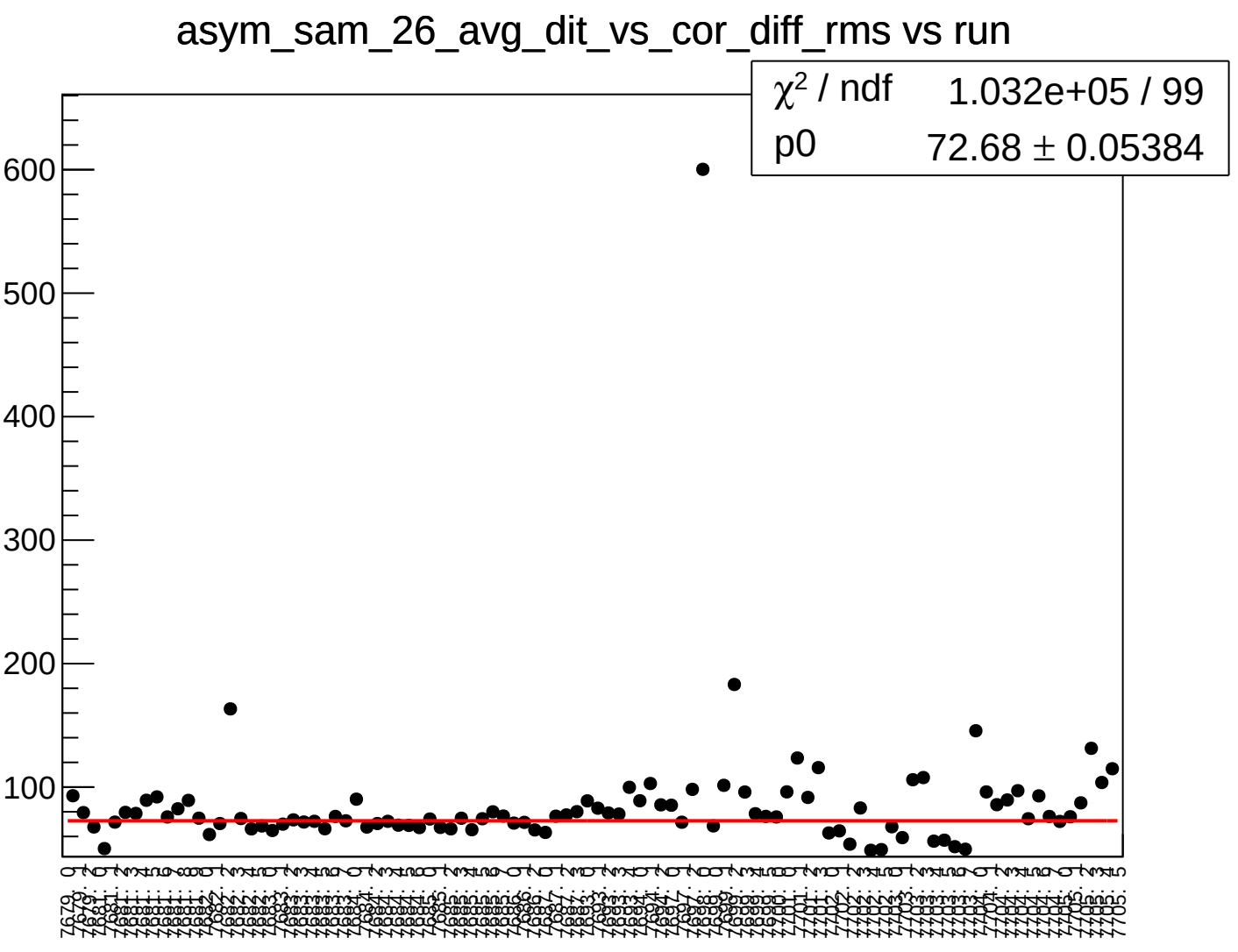

asym_sam_26_avg_rms vs run
χ^2 / ndf 2.113e+04 / 99
p0 1814 ± 1.315
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400

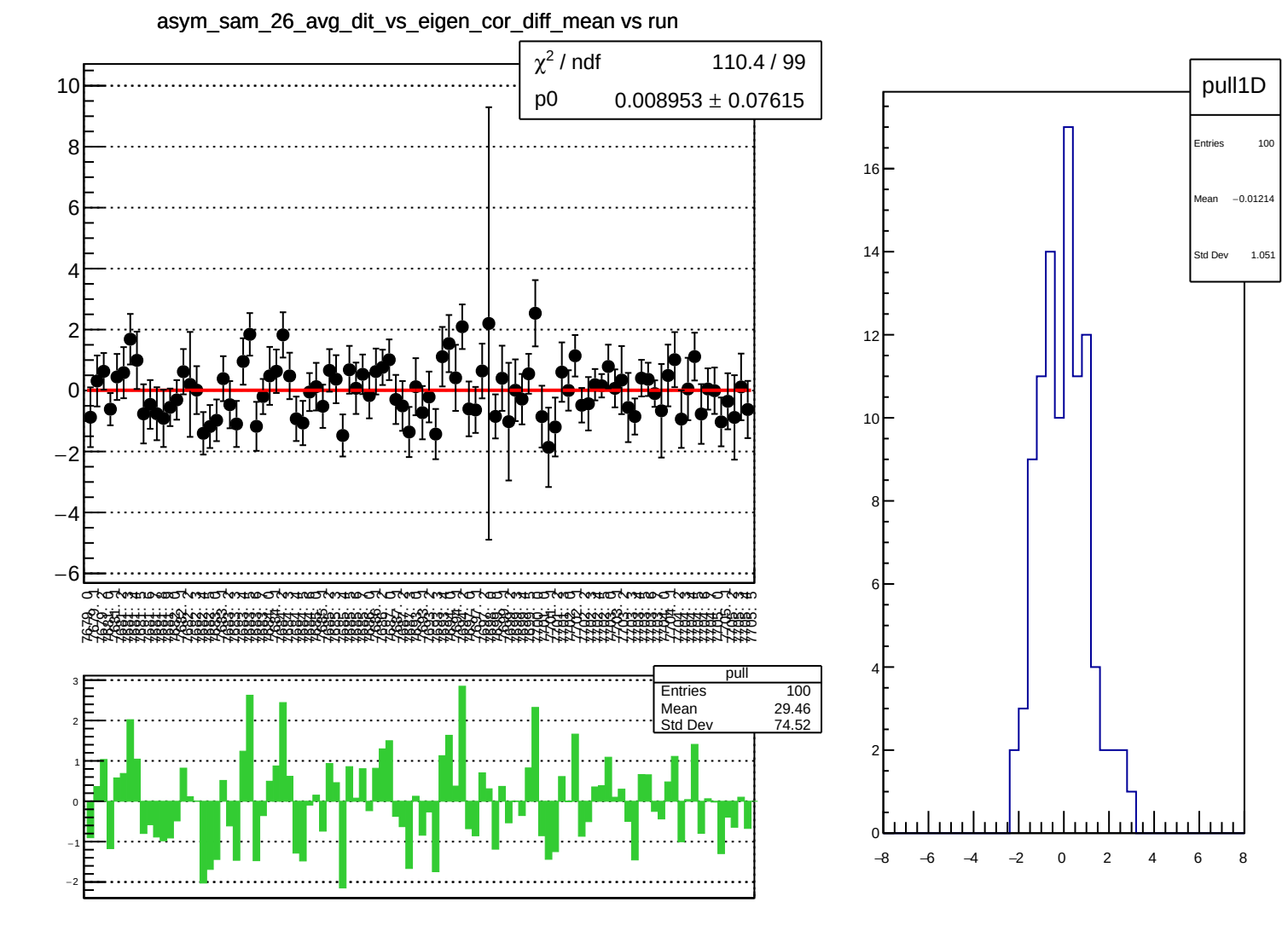

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 99.31 / 99
p0 −1.457e−13 ± 9.041e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 100
Mean 90.33
Std Dev 0
2
1
0
−1
−2

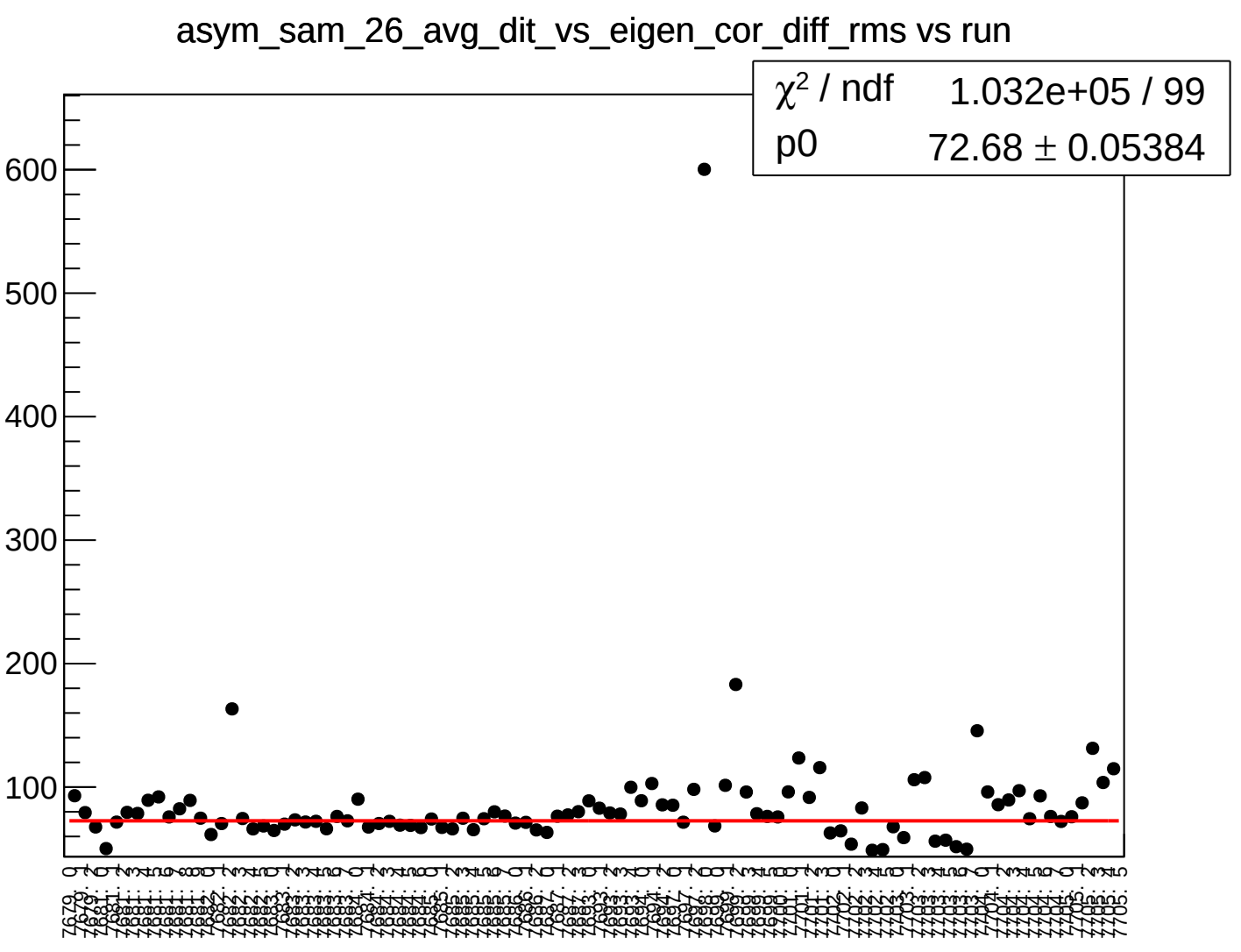

pull1D
Entries 100
Mean 0.04543
Std Dev 0.9955
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

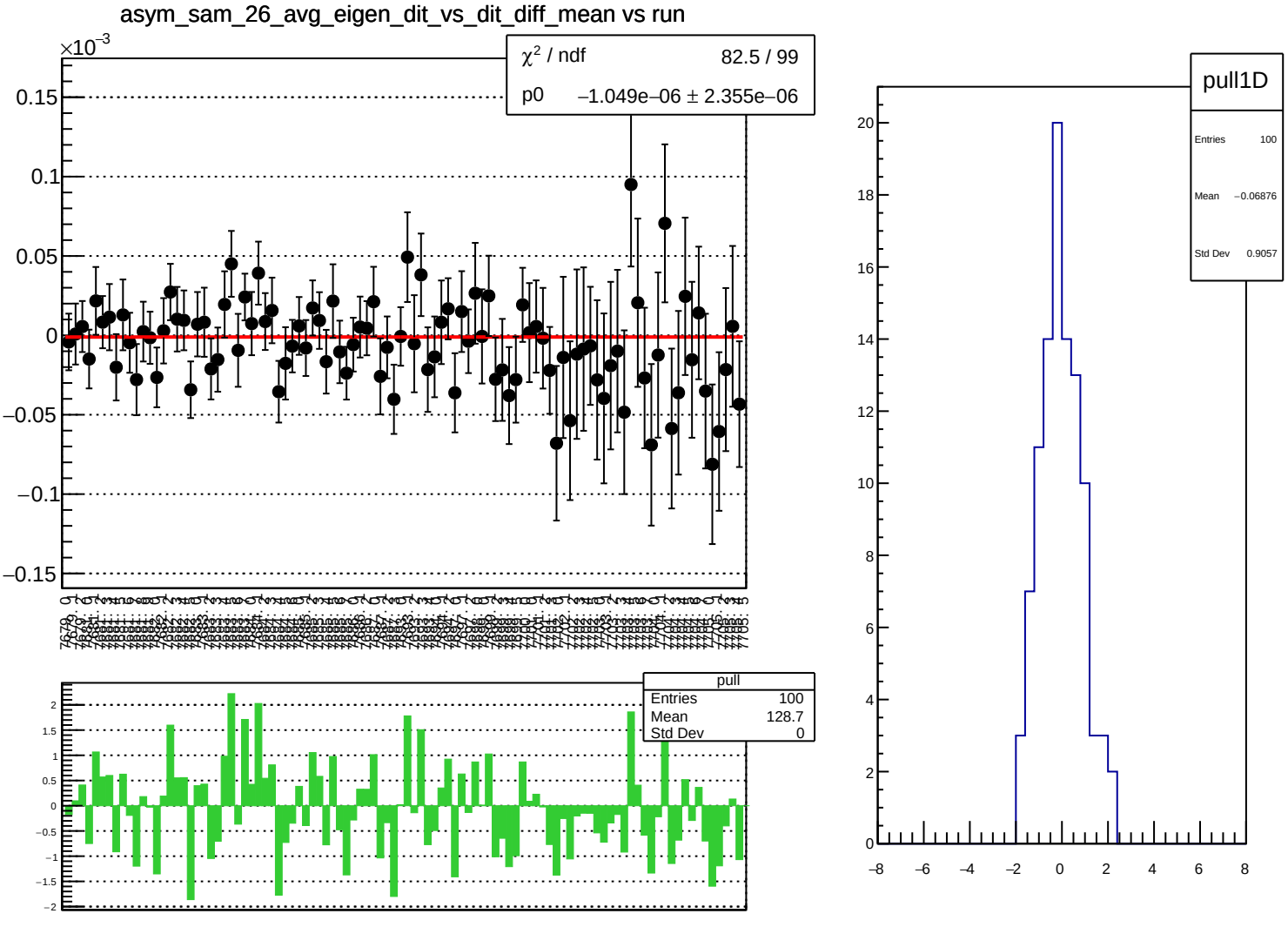

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.18e+06 / 99
p0 5.519e−11 ± 6.393e−14
0.1
0.08
0.06
0.04
0.02
0

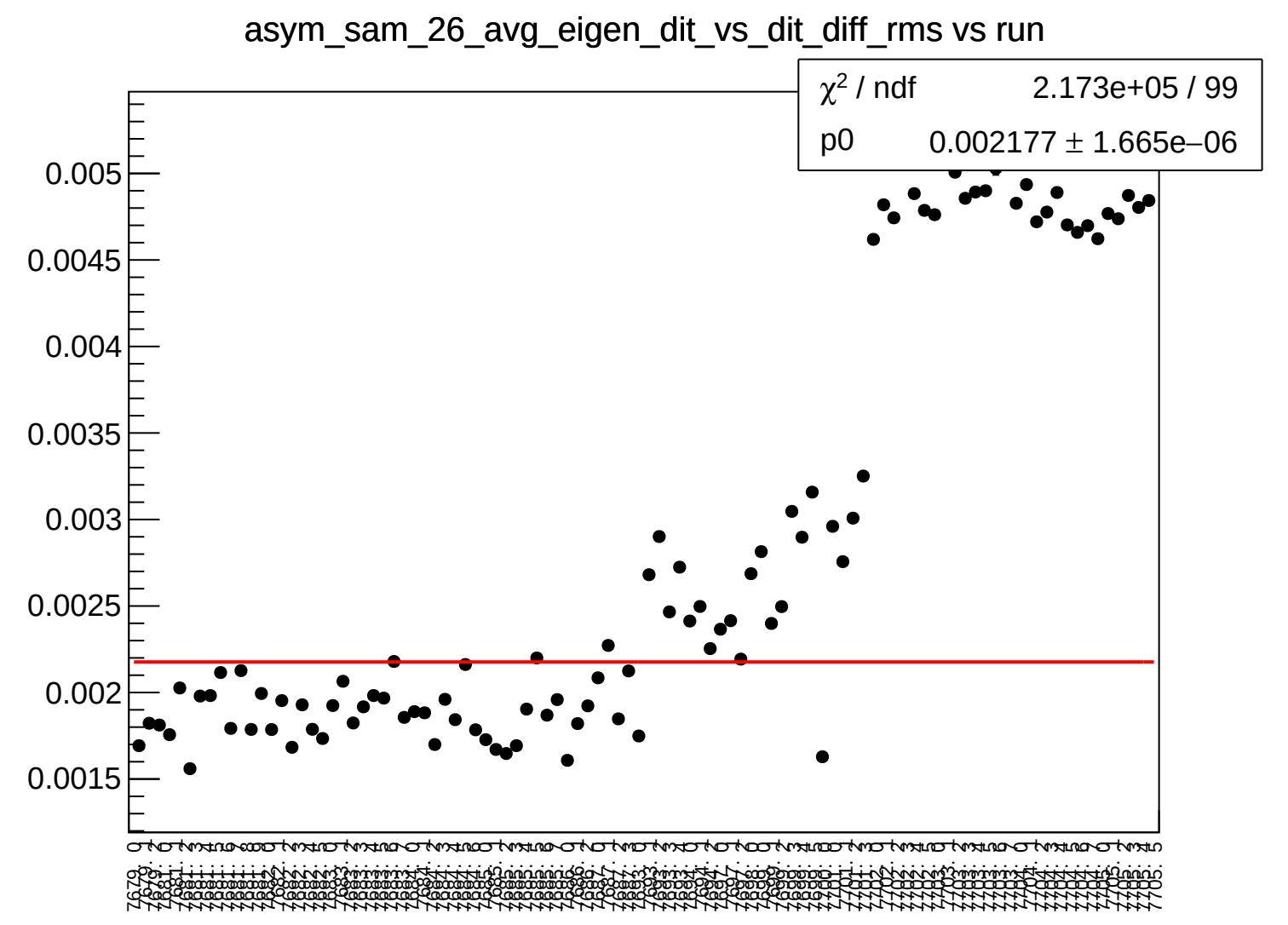

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 110.4 / 99
p0 0.008953 ± 0.07615
pull
Entries 100
Mean 29.46
Std Dev 74.52
pull1D
Entries 100
Mean −0.01214
Std Dev 1.051

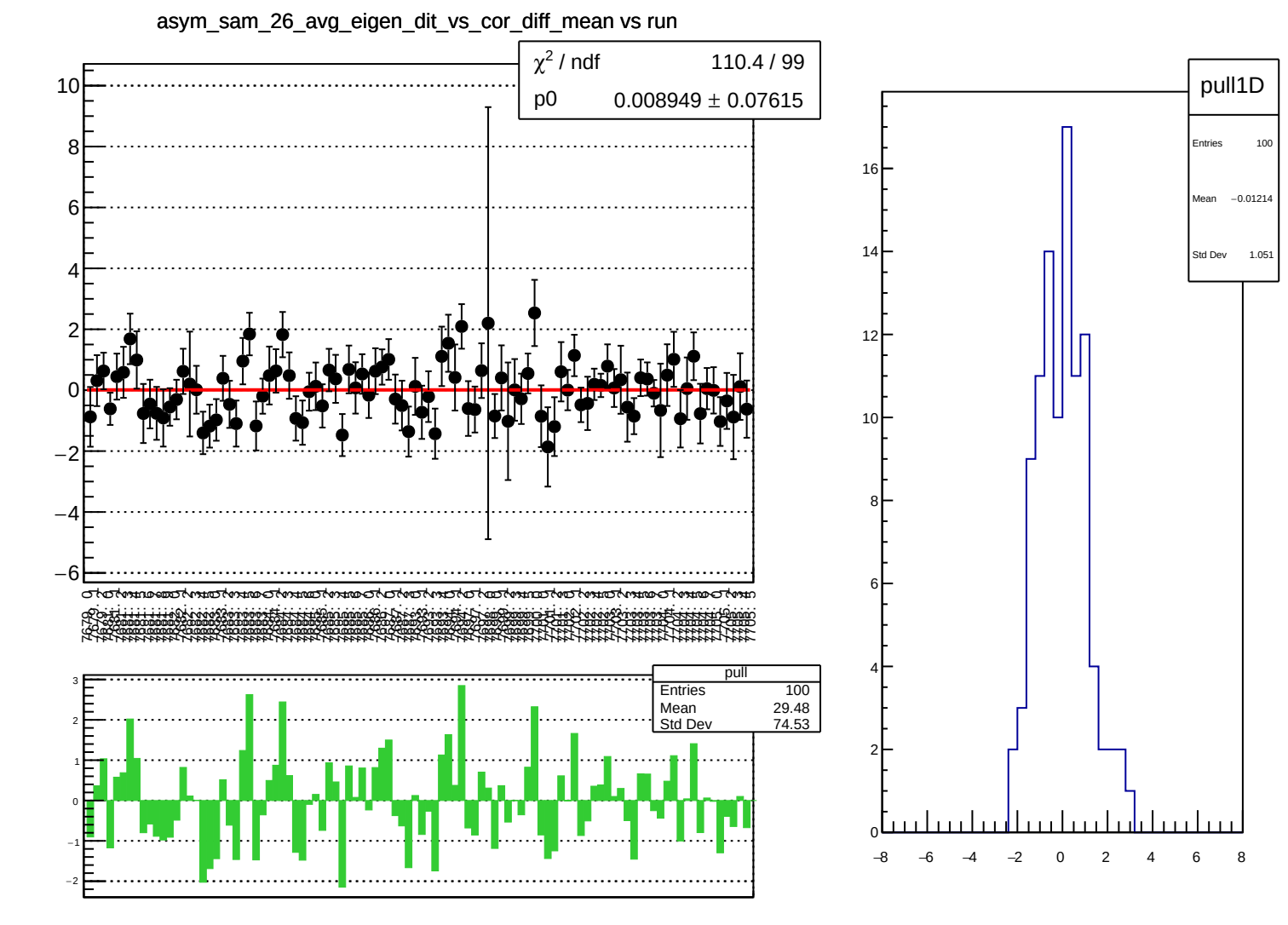

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.032e+05 / 99
p0 72.68 ± 0.05384
600
500
400
300
200
100

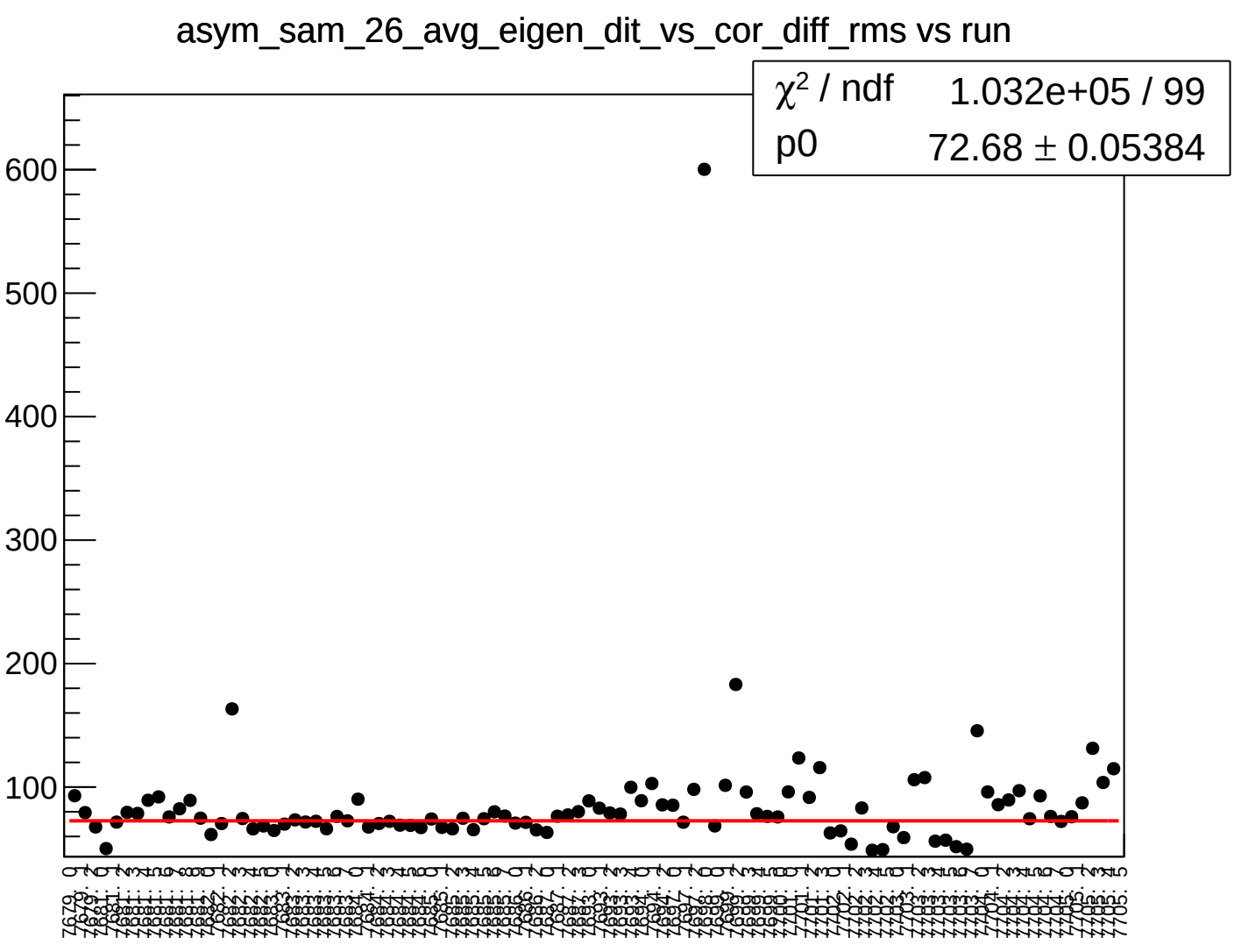

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.4 / 99
p0 0.008953 ± 0.07615
pull
Entries 100
Mean 29.46
Std Dev 74.52
pull1D
Entries 100
Mean −0.01214
Std Dev 1.051

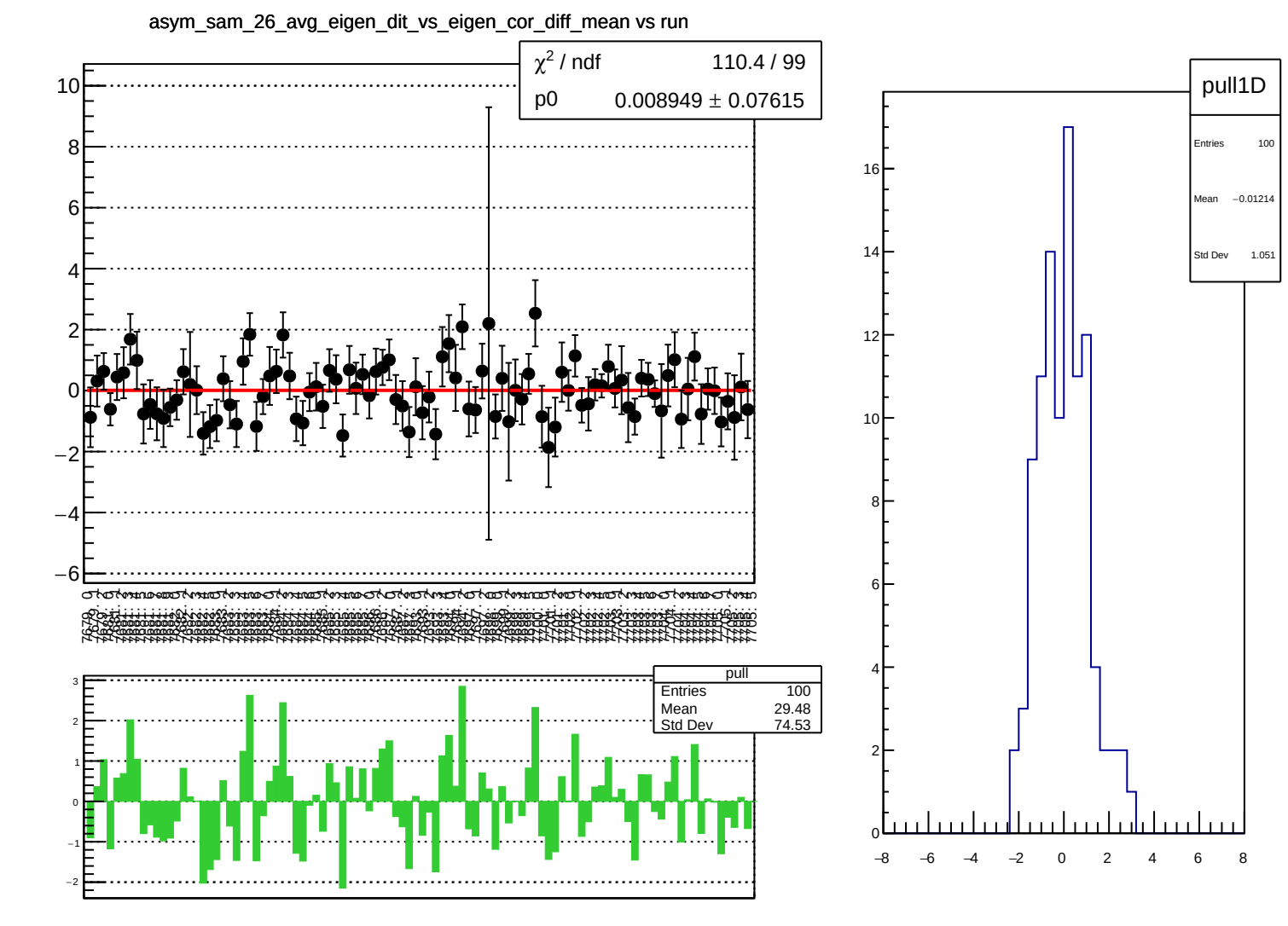

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.032e+05 / 99
p0 72.68 ± 0.05384
600
500
400
300
200
100

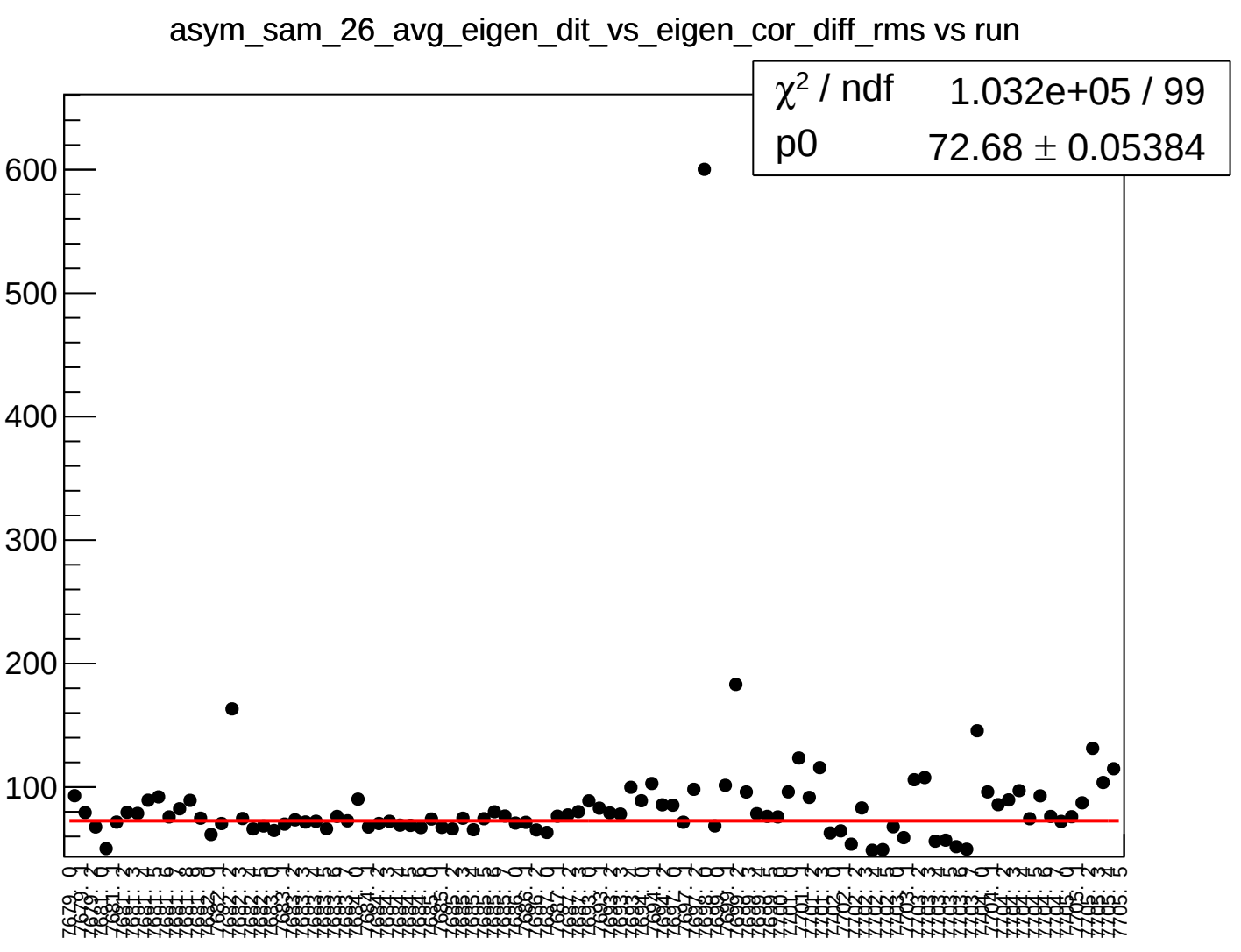

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 82.5 / 99
p0 −1.049e−06 ± 2.355e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 100
Mean 128.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 100
Mean −0.06876
Std Dev 0.9057
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

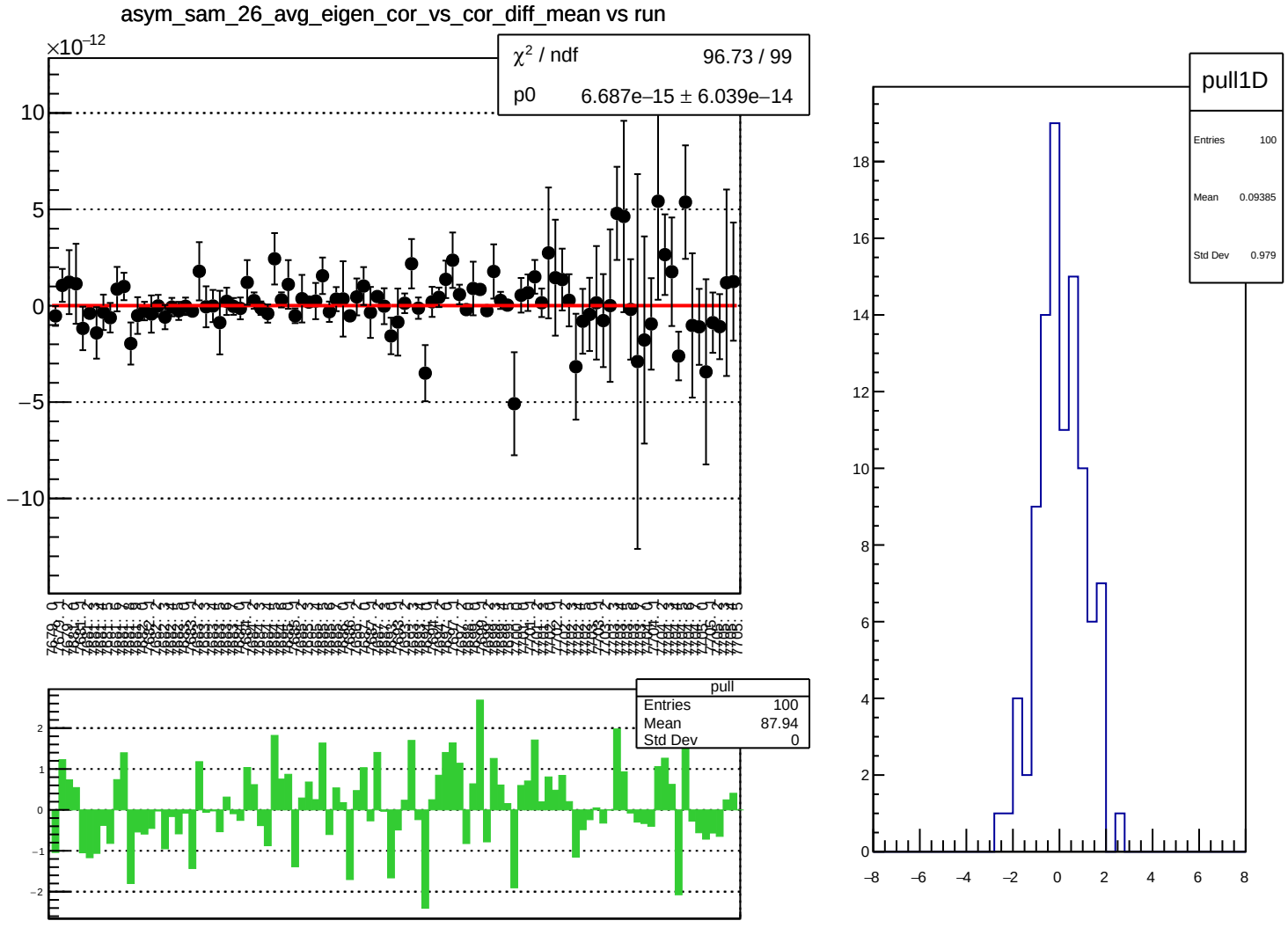

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.173e+05 / 99
p0 0.002177 ± 1.665e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

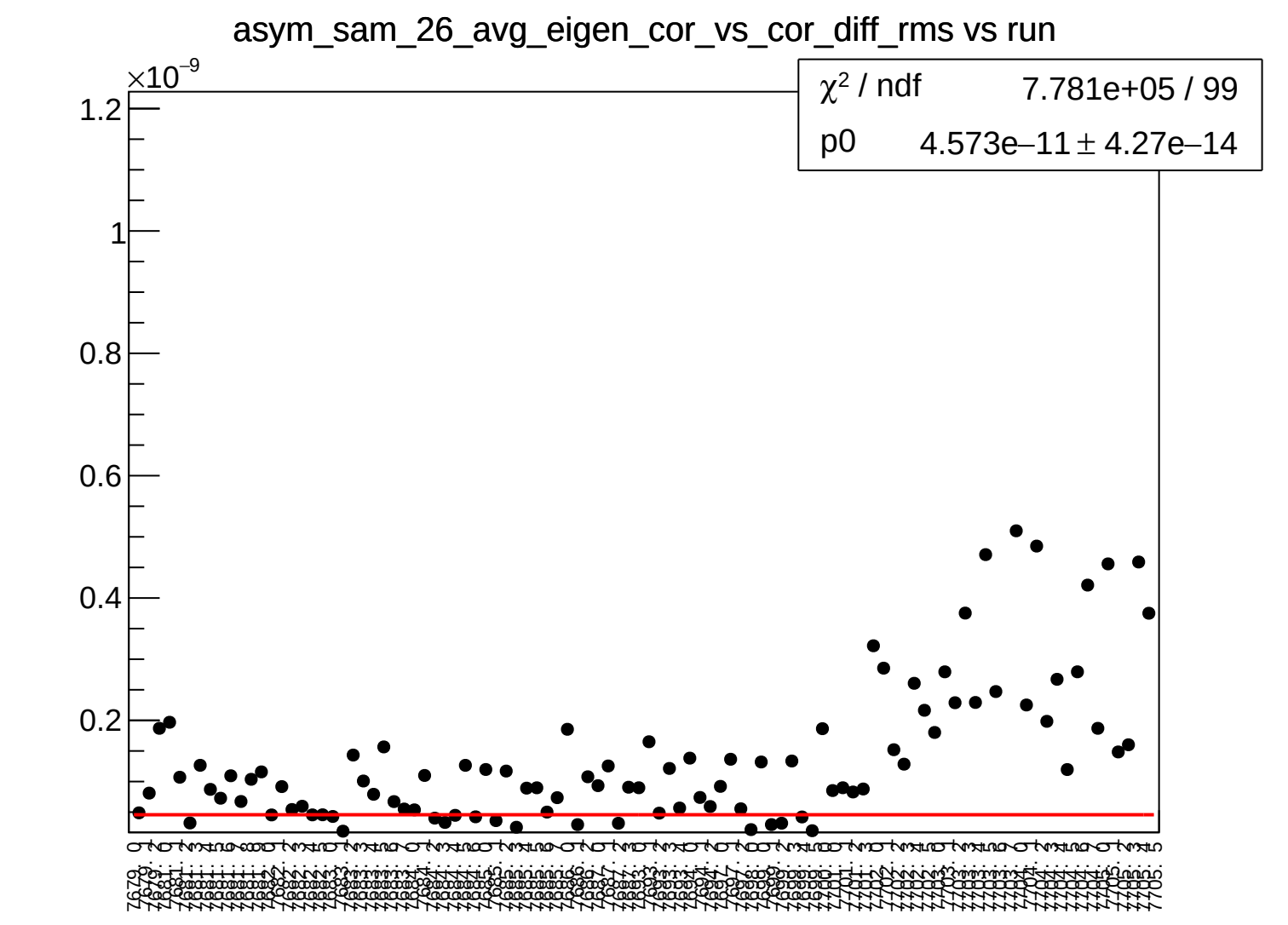

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 110.4 / 99
p0 0.008949 ± 0.07615
pull
Entries 100
Mean 29.48
Std Dev 74.53
pull1D
Entries 100
Mean −0.01214
Std Dev 1.051

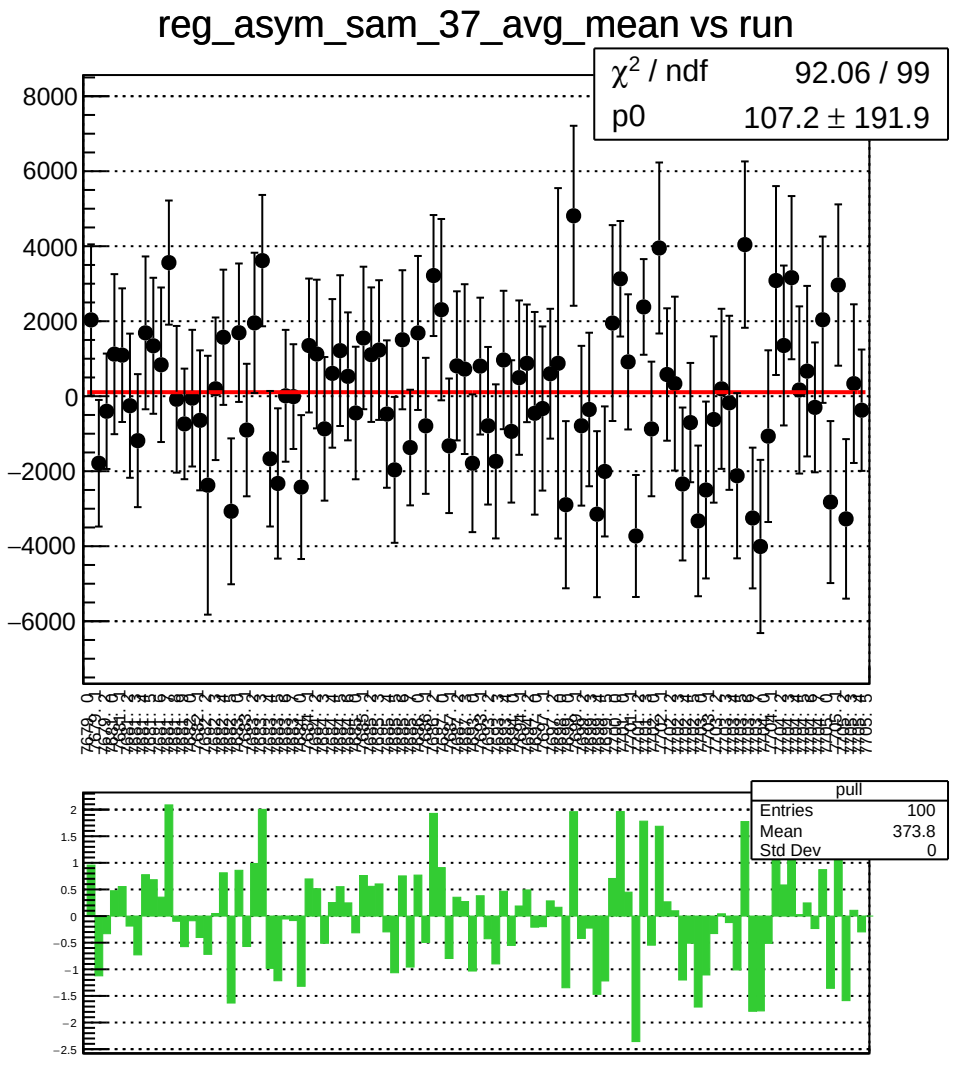

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.032e+05 / 99
p0 72.68 ± 0.05384
600
500
400
300
200
100

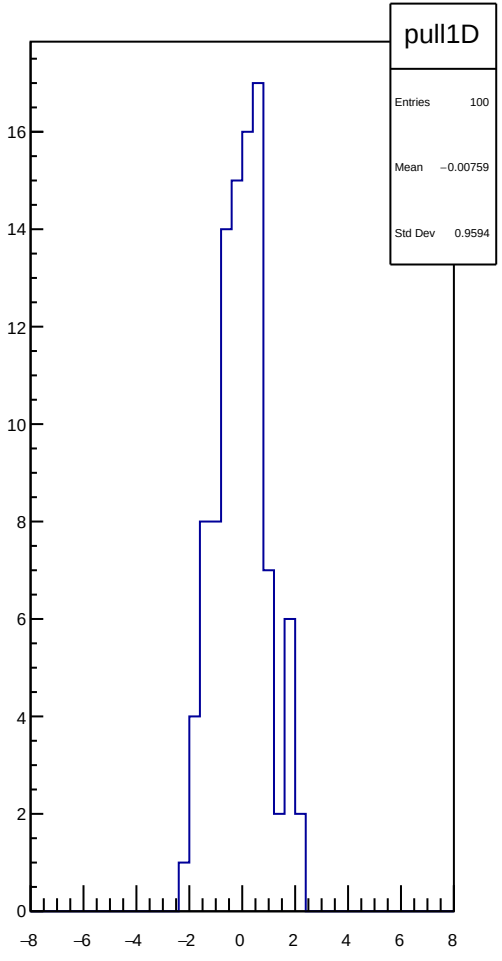

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.4 / 99
p0 0.008949 ± 0.07615
pull
Entries 100
Mean 29.48
Std Dev 74.53
pull1D
Entries 100
Mean −0.01214
Std Dev 1.051

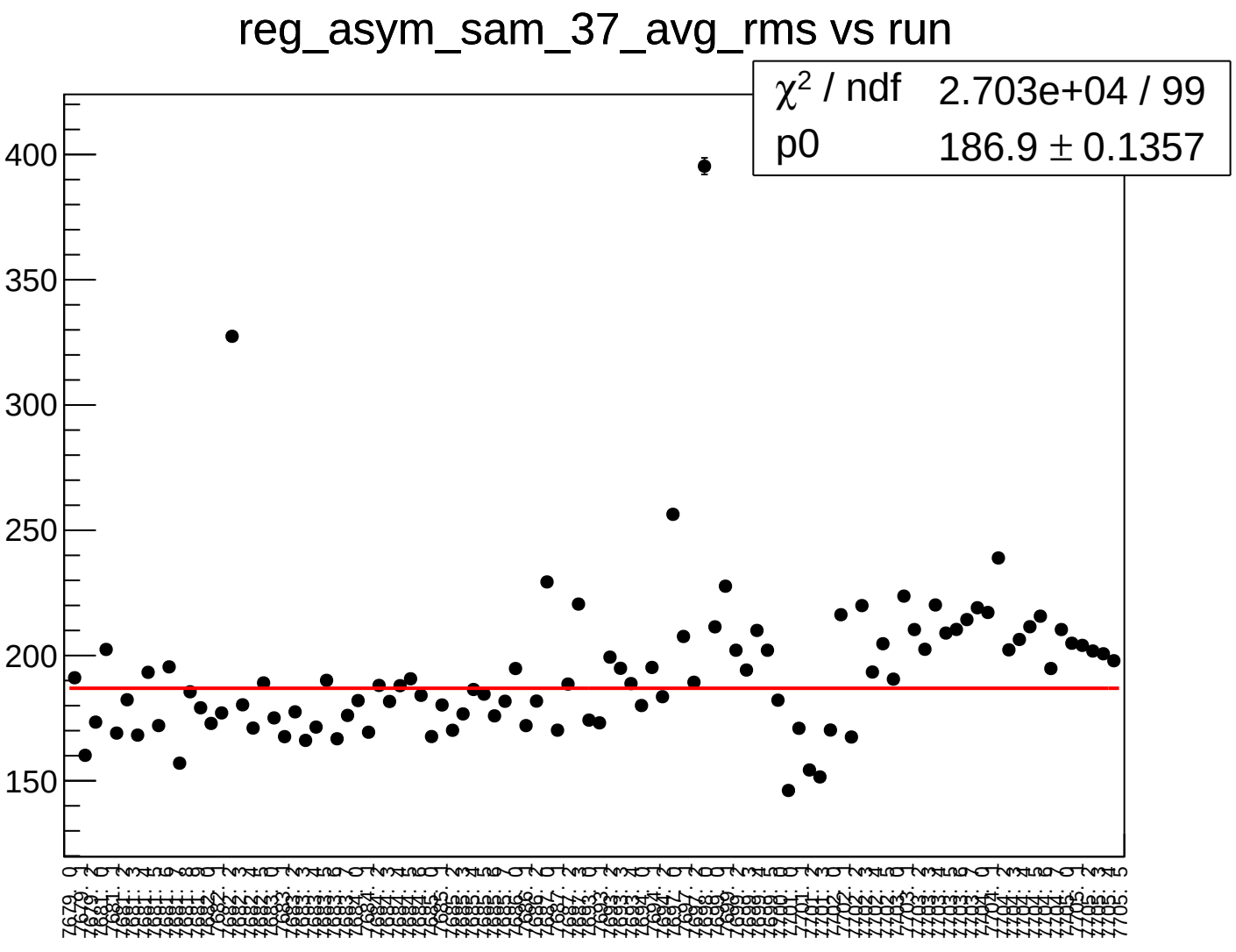

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.032e+05 / 99
p0 72.68 ± 0.05384
600
500
400
300
200
100

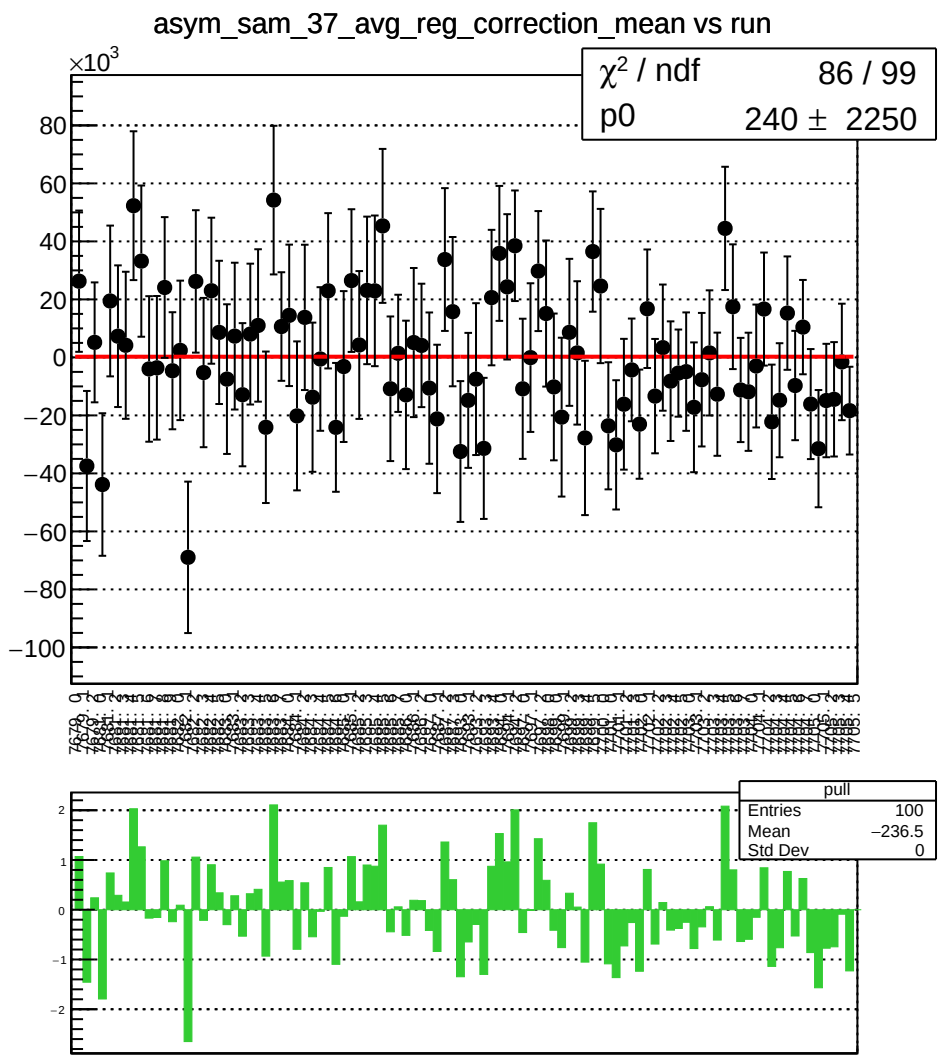

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 96.73 / 99
p0 6.687e−15 ± 6.039e−14
10
5
0
−5
−10
pull
Entries 100
Mean 87.94
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.09385
Std Dev 0.979
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

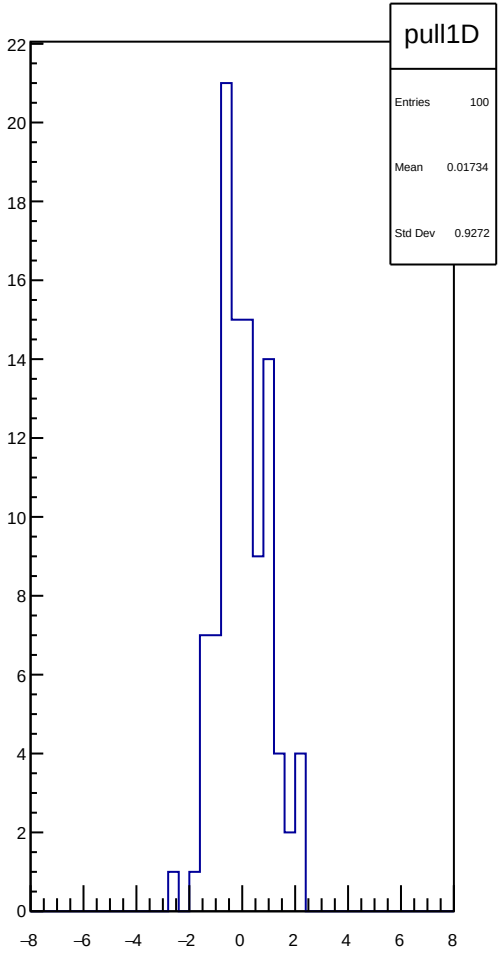

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
1.2
1
0.8
0.6
0.4
0.2
χ² / ndf 7.781e+05 / 99
p0 4.573e−11 ± 4.27e−14

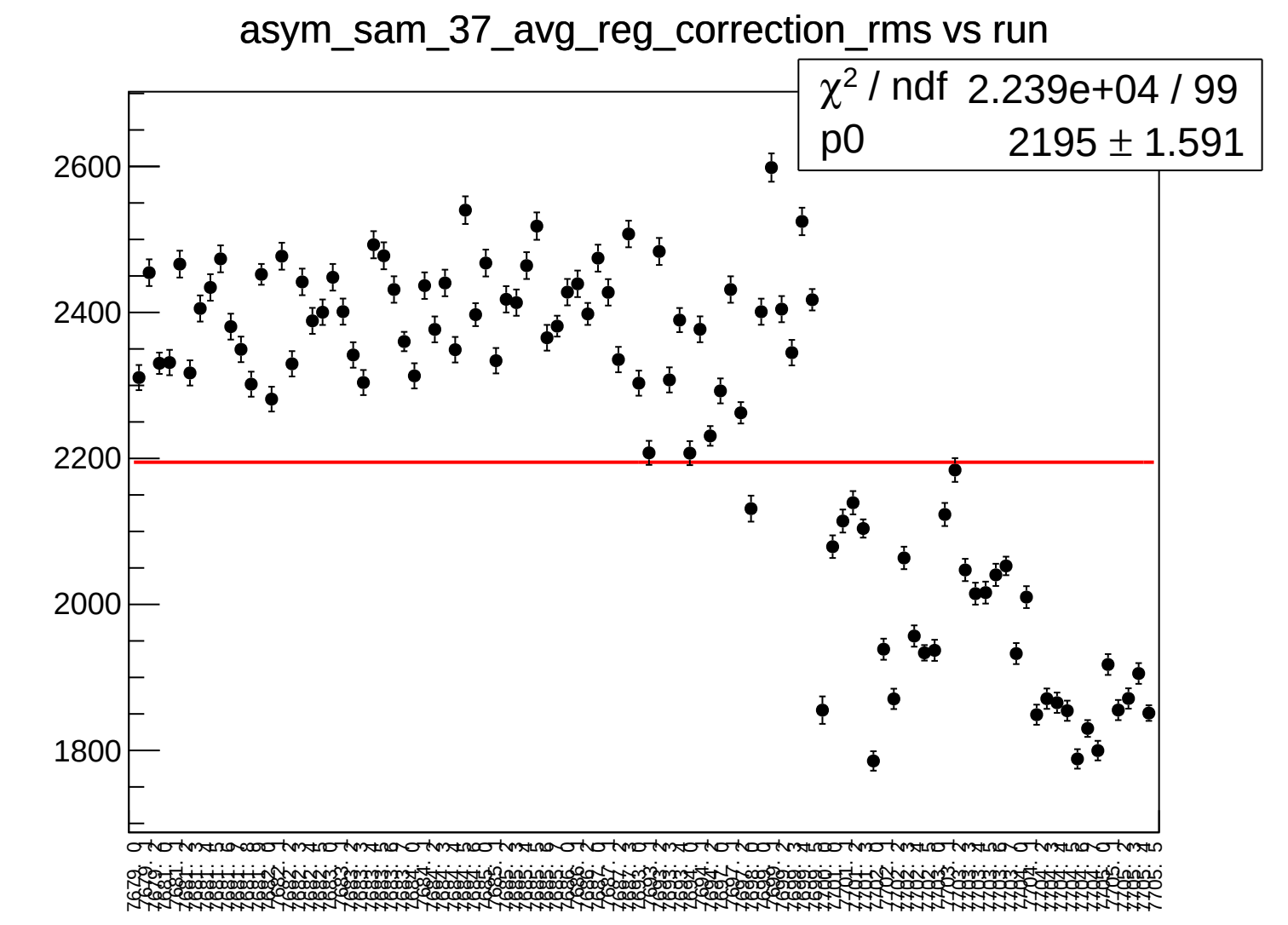

reg_asym_sam_37_avg_mean vs run
χ² / ndf 92.06 / 99
p0 107.2 ± 191.9
pull
Entries 100
Mean 373.8
Std Dev 0

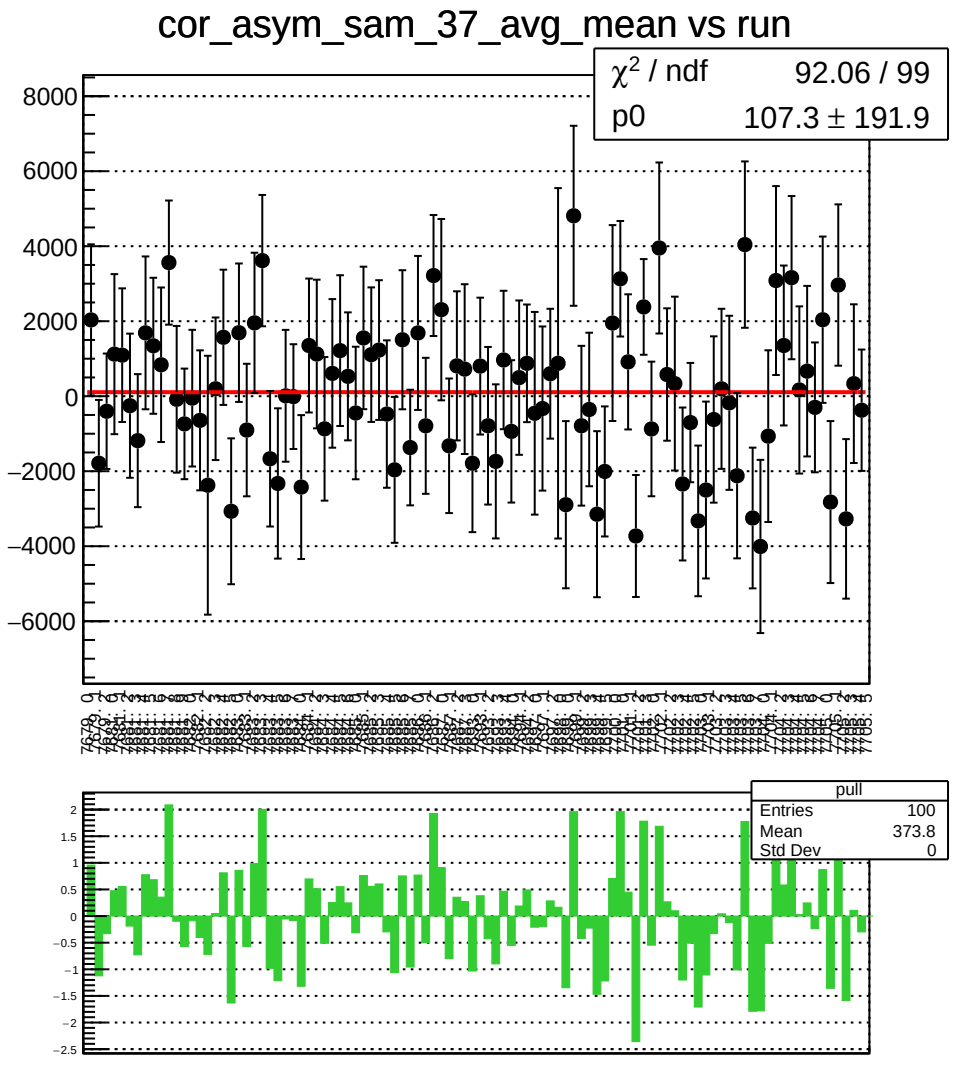

pull1D
Entries 100
Mean −0.00759
Std Dev 0.9594

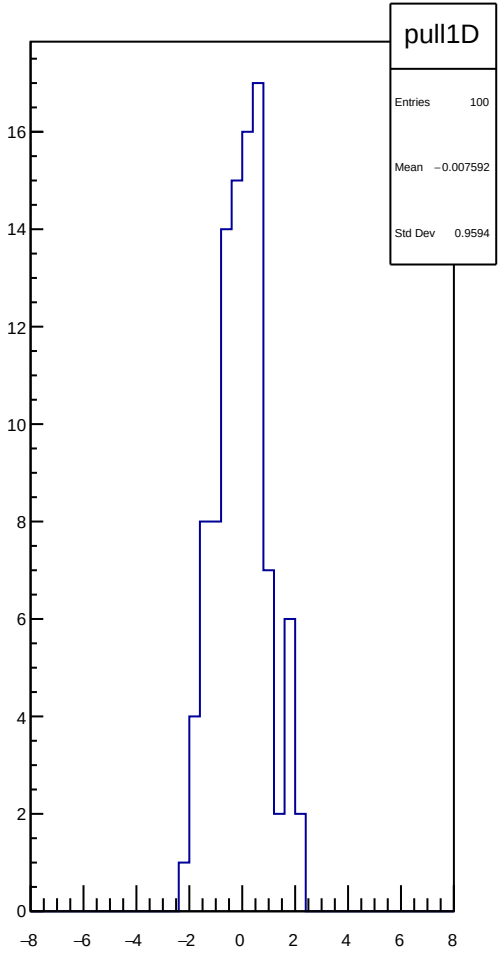

reg_asym_sam_37_avg_rms vs run
χ² / ndf 2.703e+04 / 99
p0 186.9 ± 0.1357
400
350
300
250
200
150

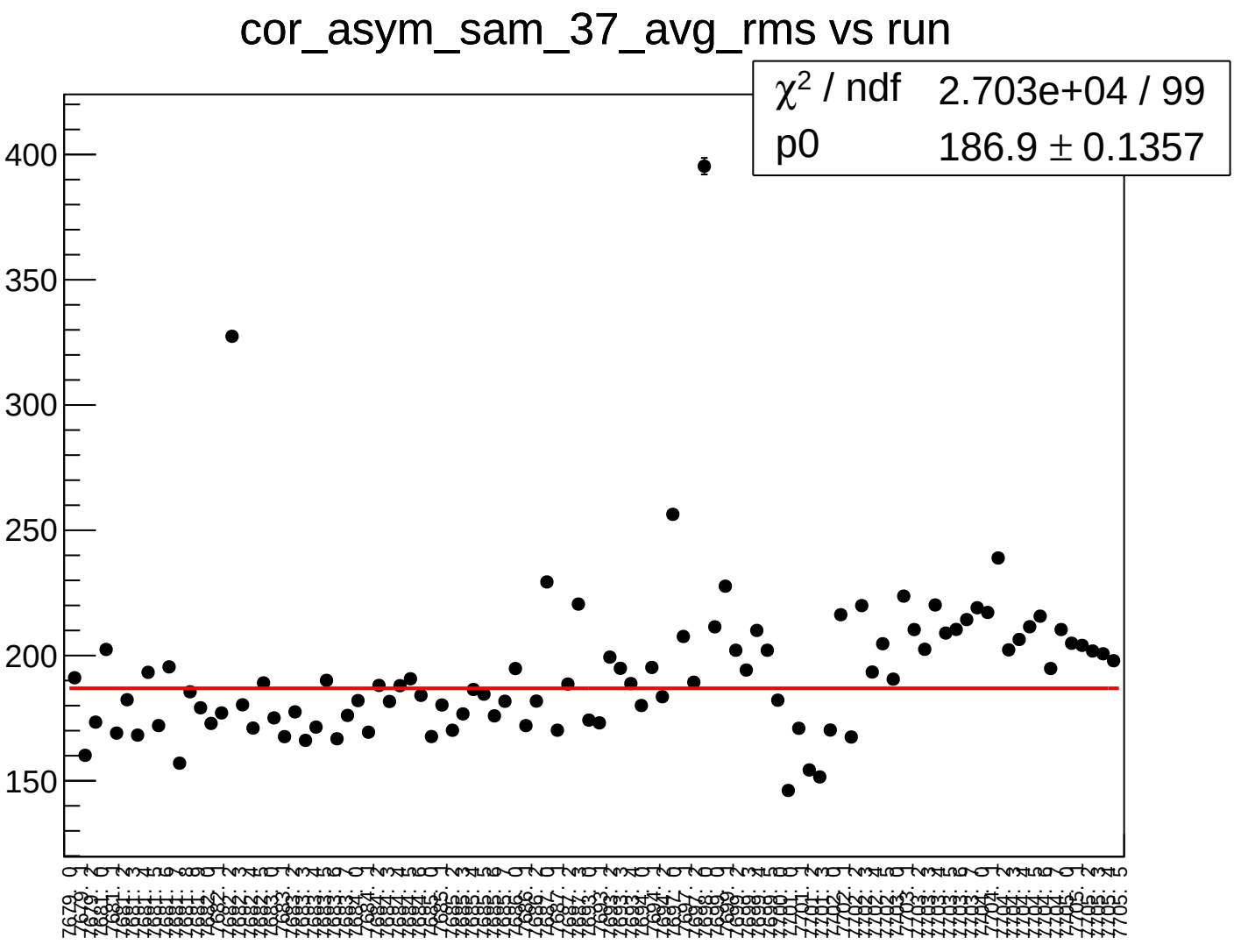

asym_sam_37_avg_reg_correction_mean vs run
×10^3
χ² / ndf 86 / 99
p0 240 ± 2250
pull
Entries 100
Mean −236.5
Std Dev 0

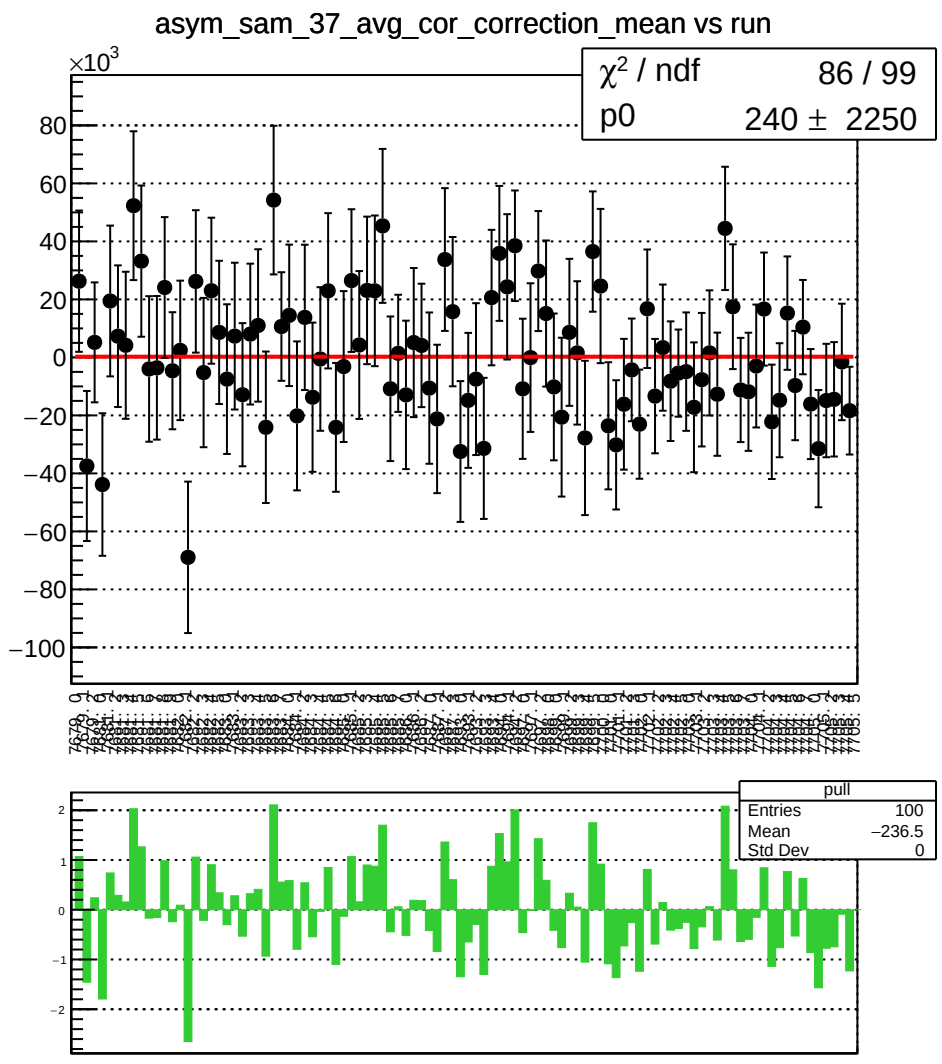

pull1D
Entries 100
Mean 0.01734
Std Dev 0.9272

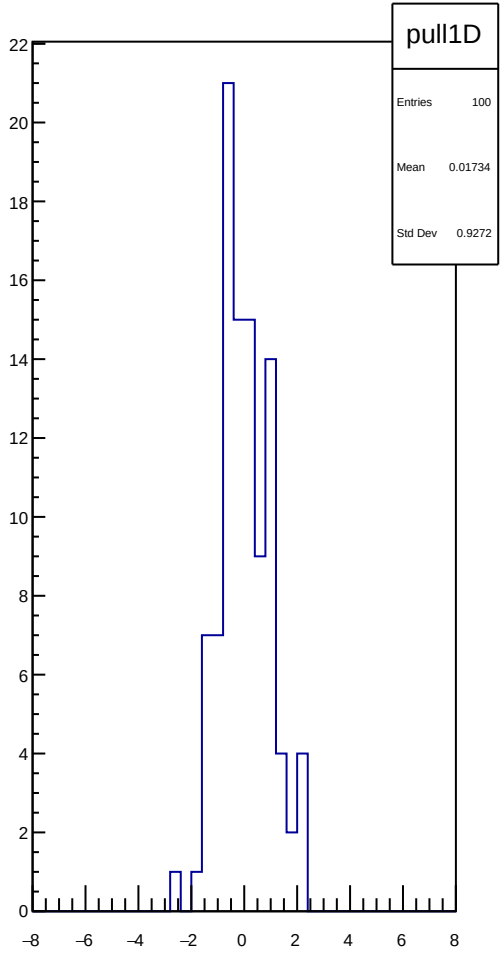

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 2.239e+04 / 99
p0 2195 ± 1.591
2600
2400
2200
2000
1800

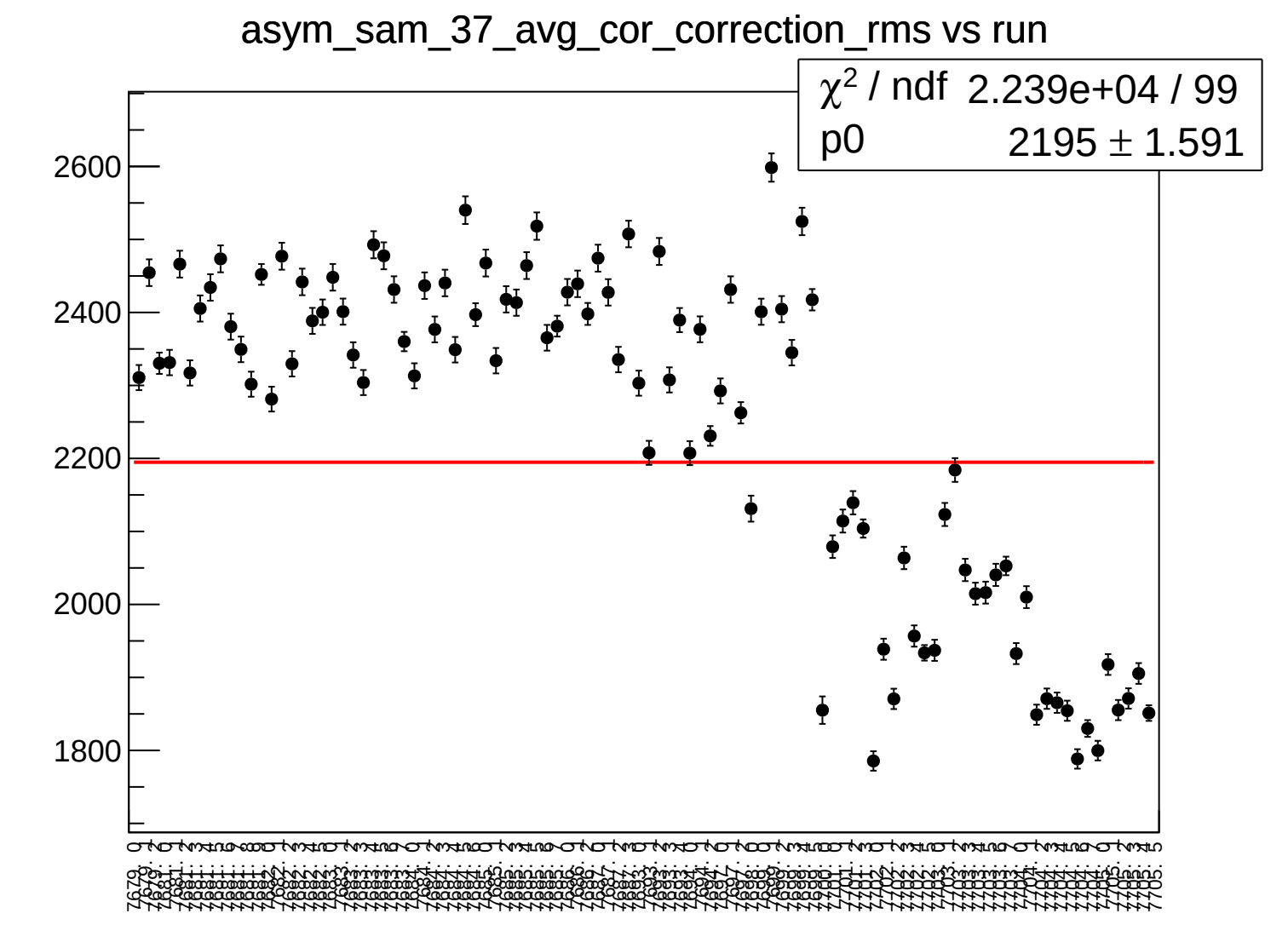

cor_asym_sam_37_avg_mean vs run
χ² / ndf 92.06 / 99
p0 107.3 ± 191.9
pull
Entries 100
Mean 373.8
Std Dev 0

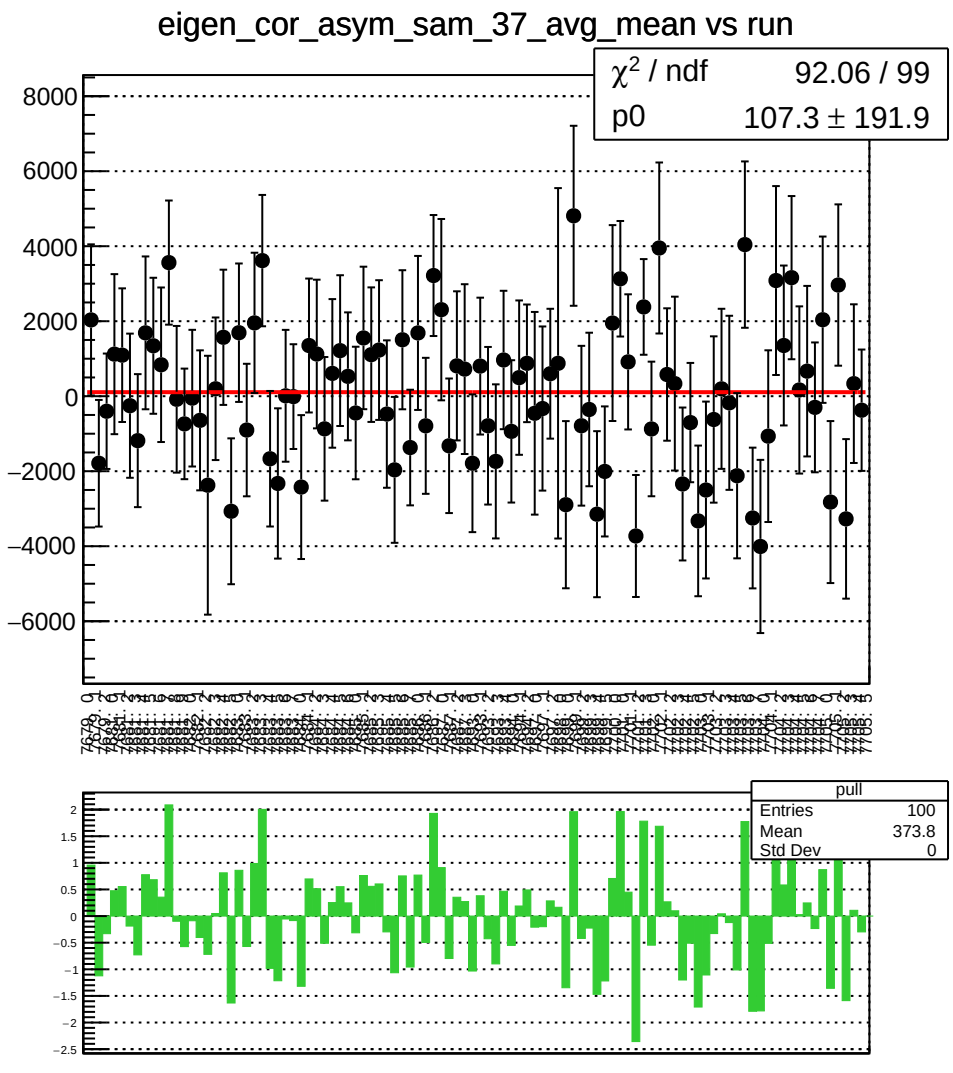

pull1D
Entries 100
Mean −0.007592
Std Dev 0.9594

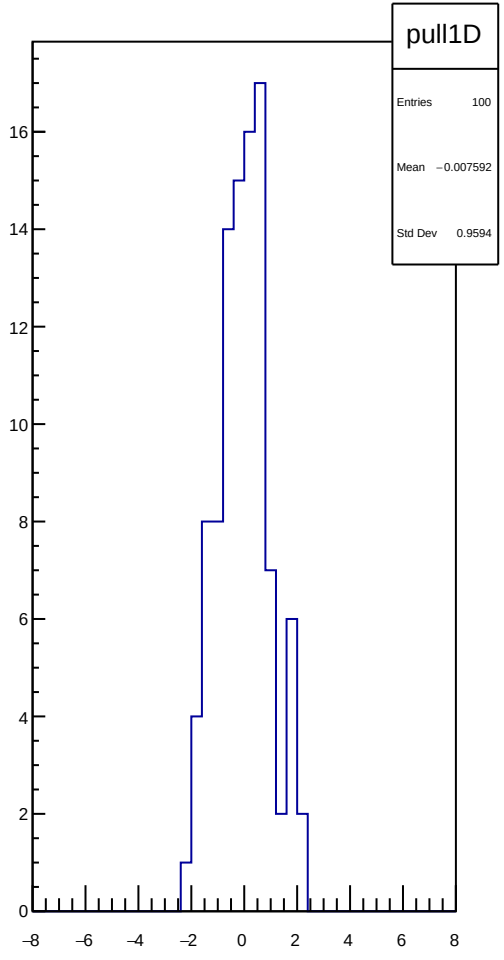

cor_asym_sam_37_avg_rms vs run
χ² / ndf 2.703e+04 / 99
p0 186.9 ± 0.1357
400
350
300
250
200
150

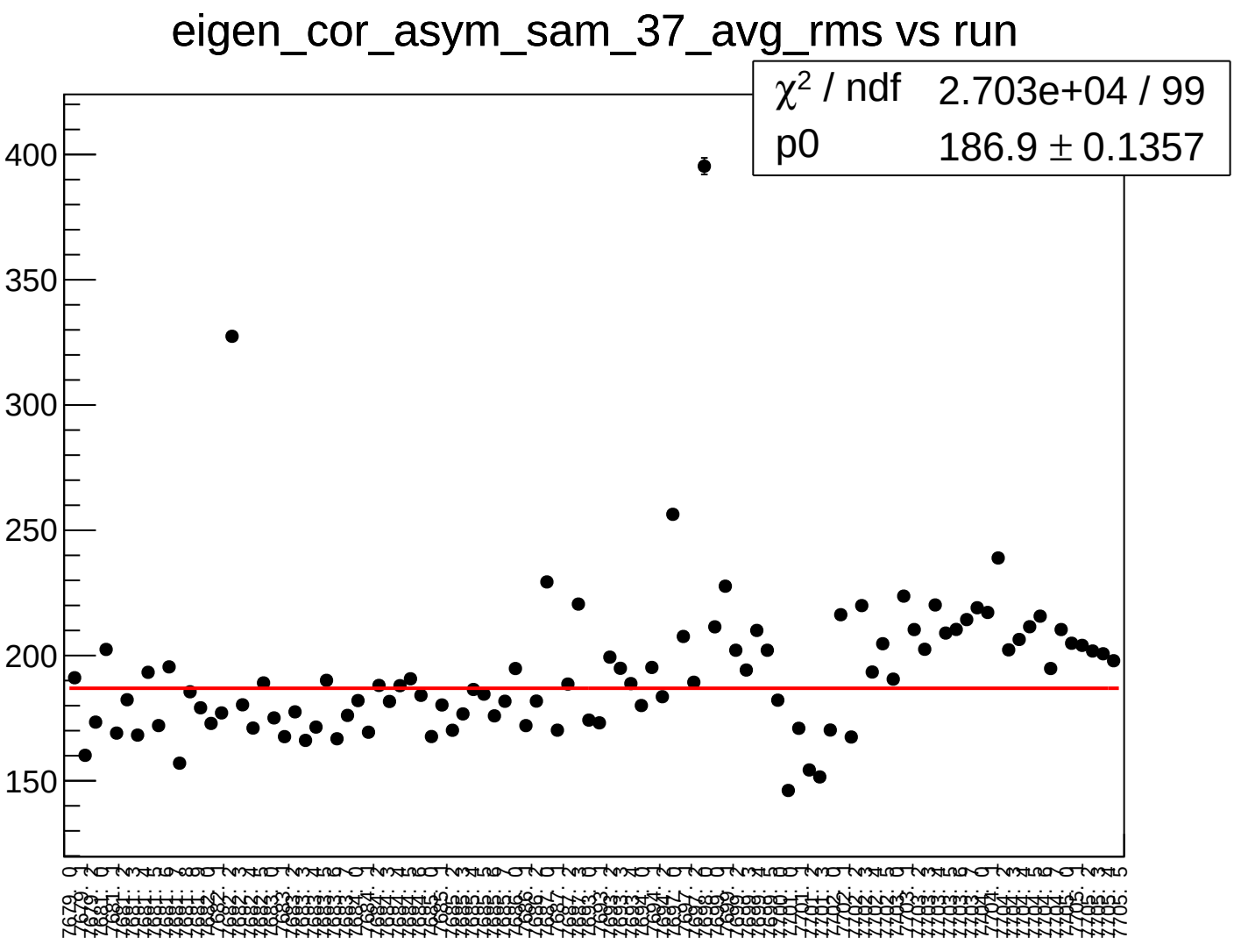

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 86 / 99
p0 240 ± 2250
×10³
pull
Entries 100
Mean −236.5
Std Dev 0

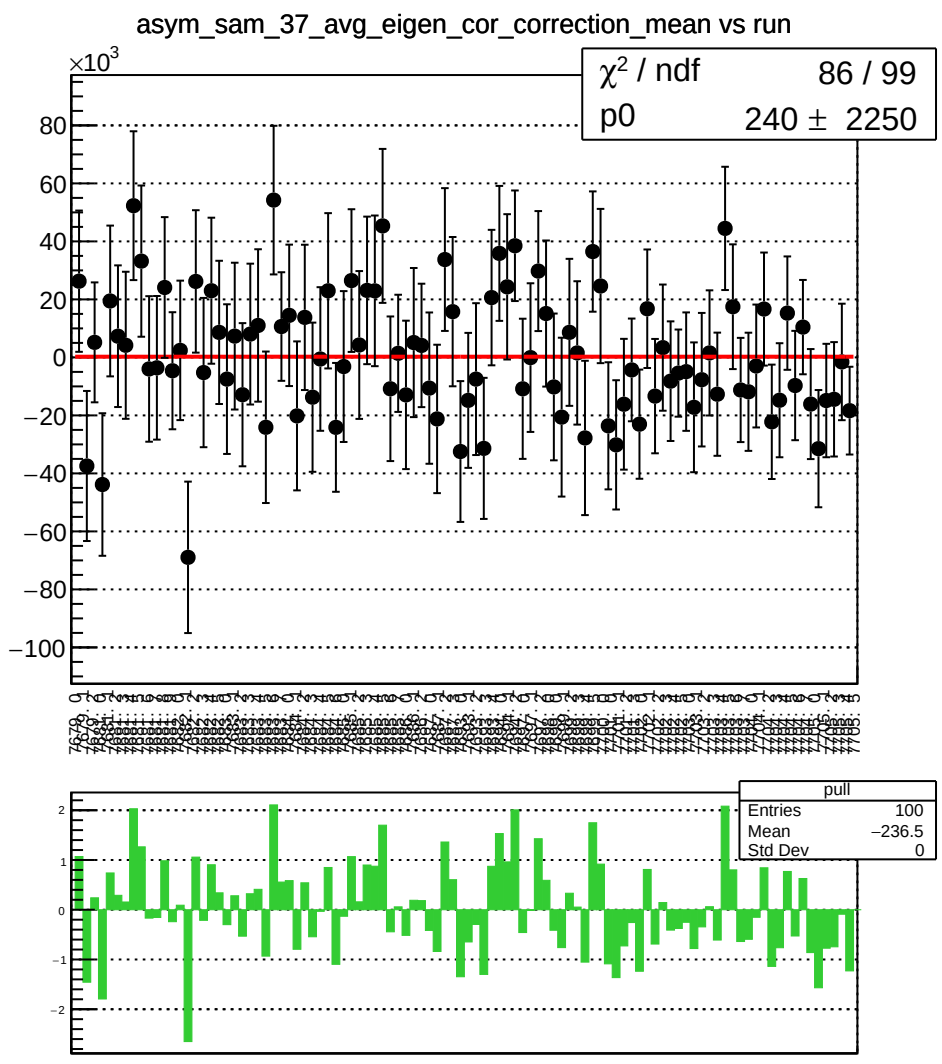

pull1D
Entries 100
Mean 0.01734
Std Dev 0.9272

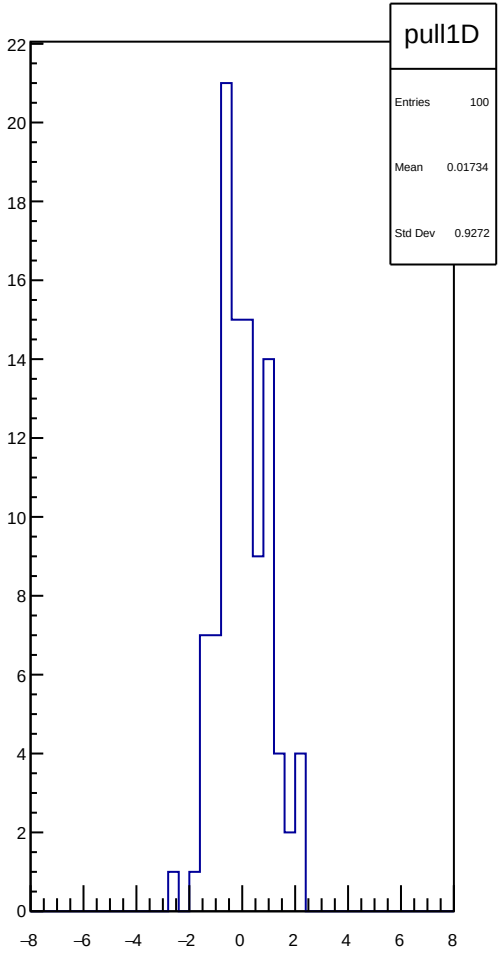

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 2.239e+04 / 99
p0 2195 ± 1.591
2600
2400
2200
2000
1800

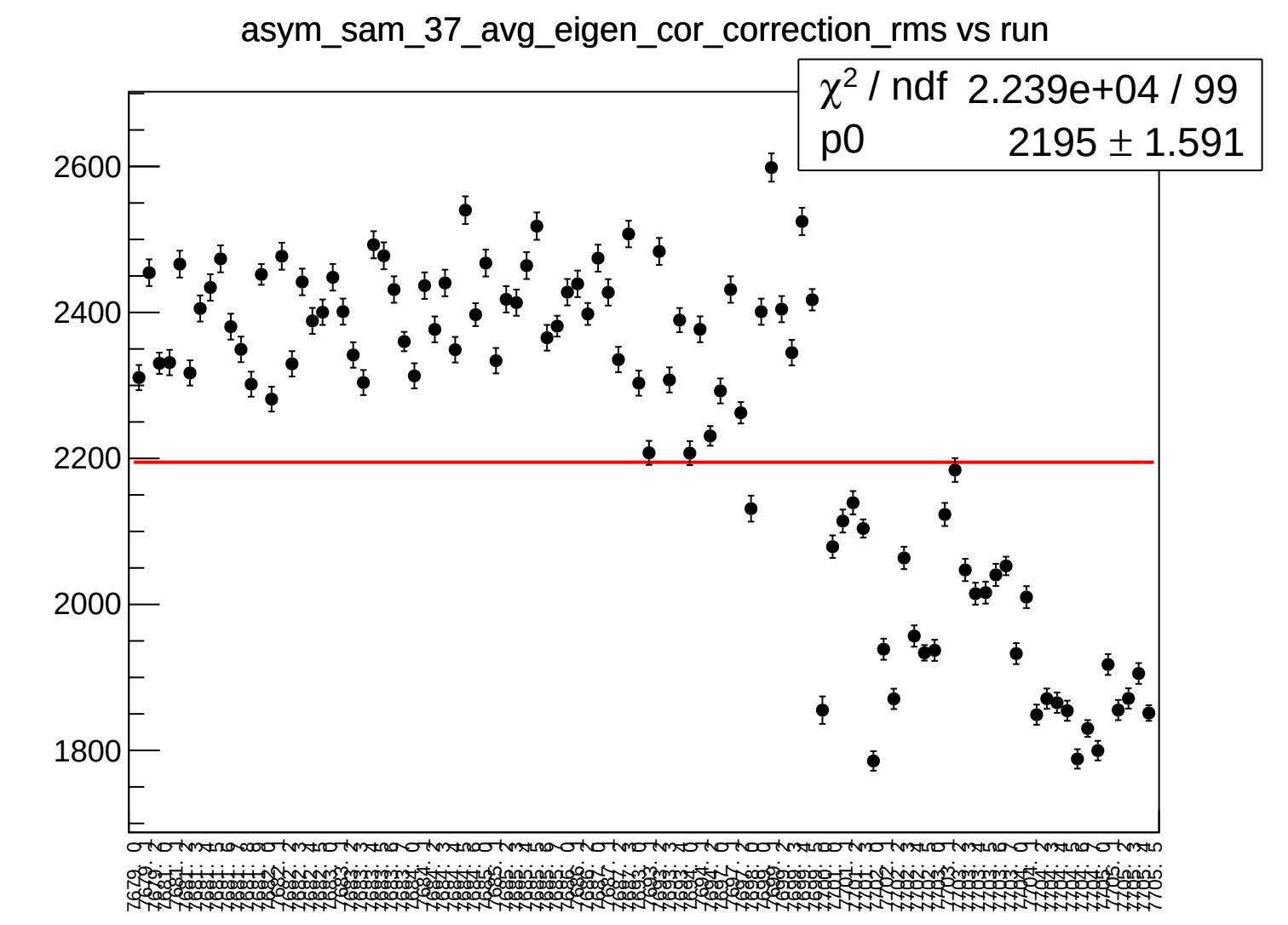

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 92.06 / 99
p0 107.3 ± 191.9
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 373.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

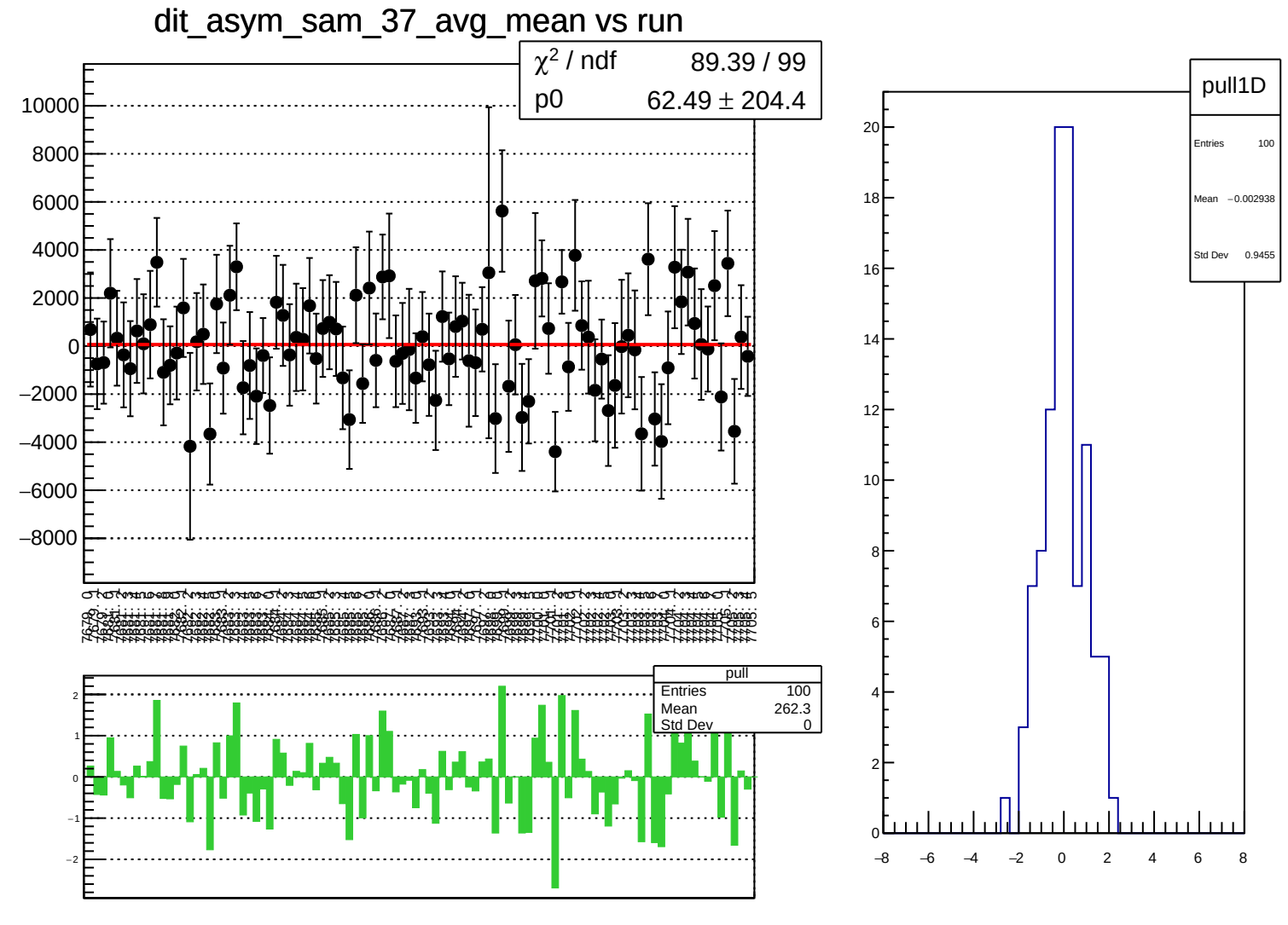

pull1D
Entries 100
Mean −0.007592
Std Dev 0.9594
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

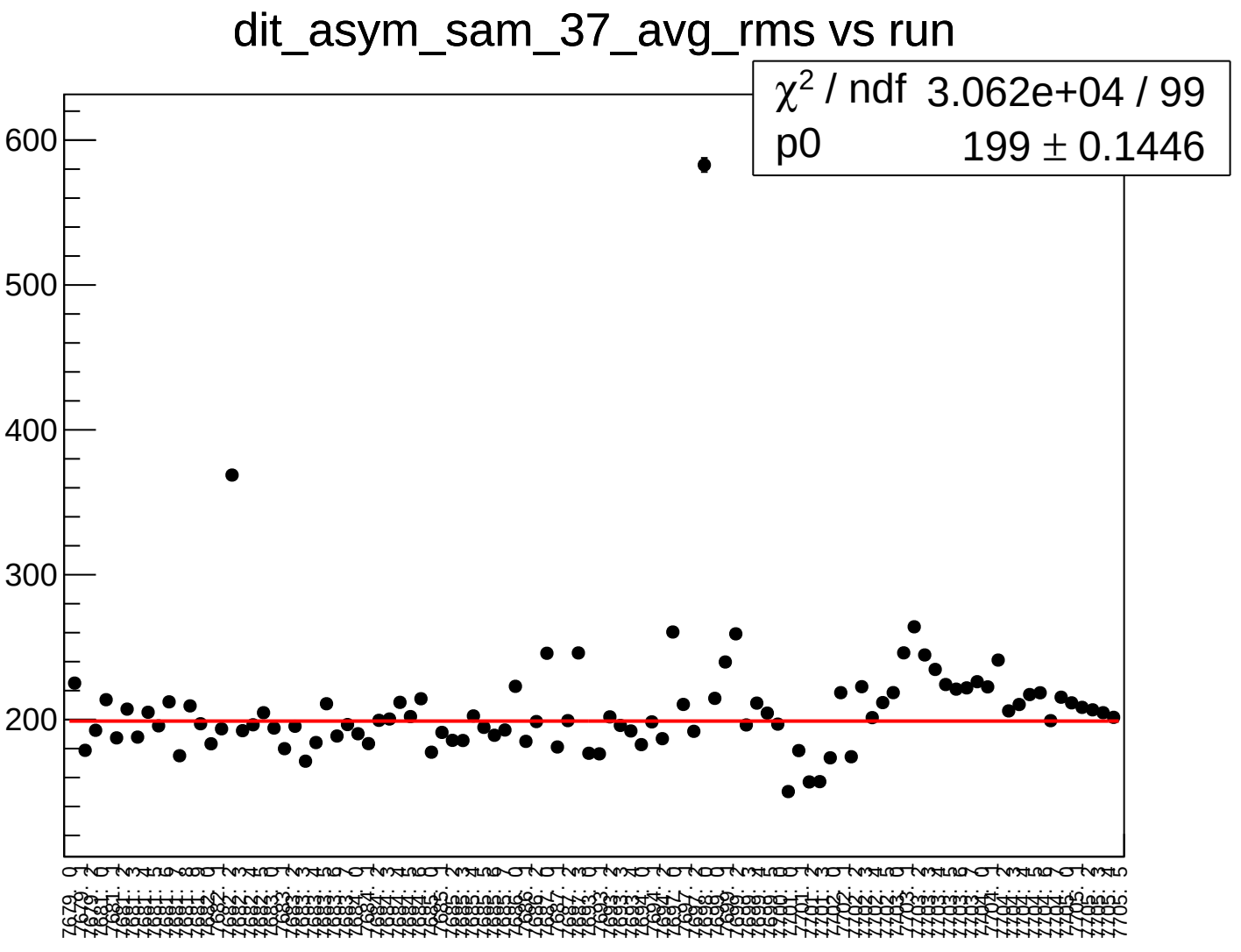

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 2.703e+04 / 99
p0 186.9 ± 0.1357
400
350
300
250
200
150

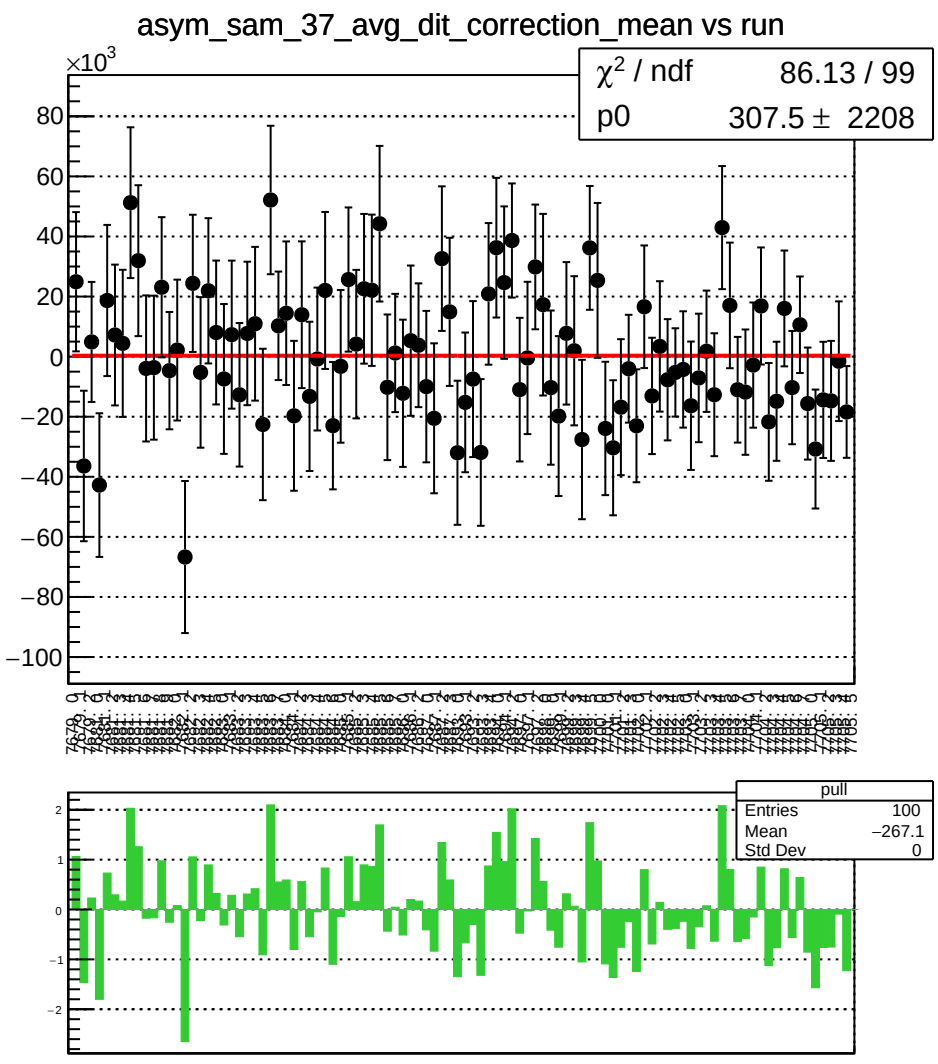

asym_sam_37_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 86 / 99
p0 240 ± 2250
pull
Entries 100
Mean −236.5
Std Dev 0

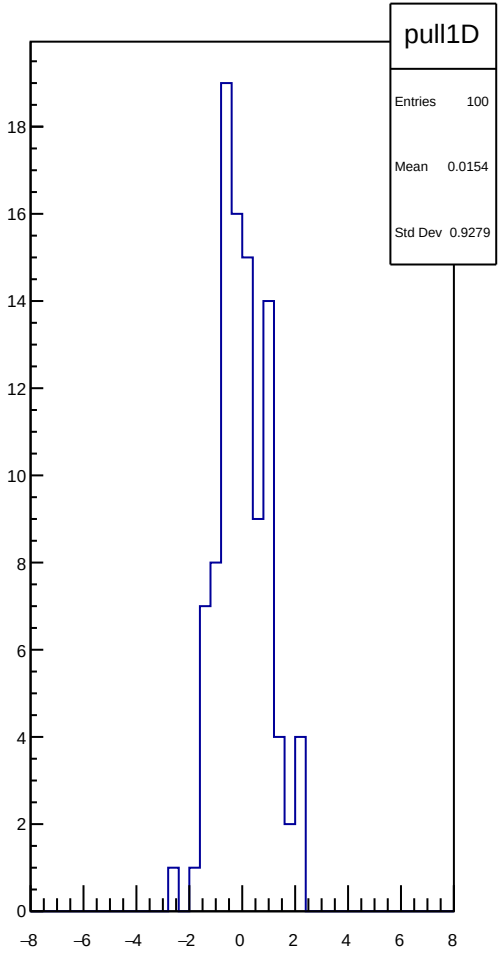

pull1D
Entries 100
Mean 0.01734
Std Dev 0.9272

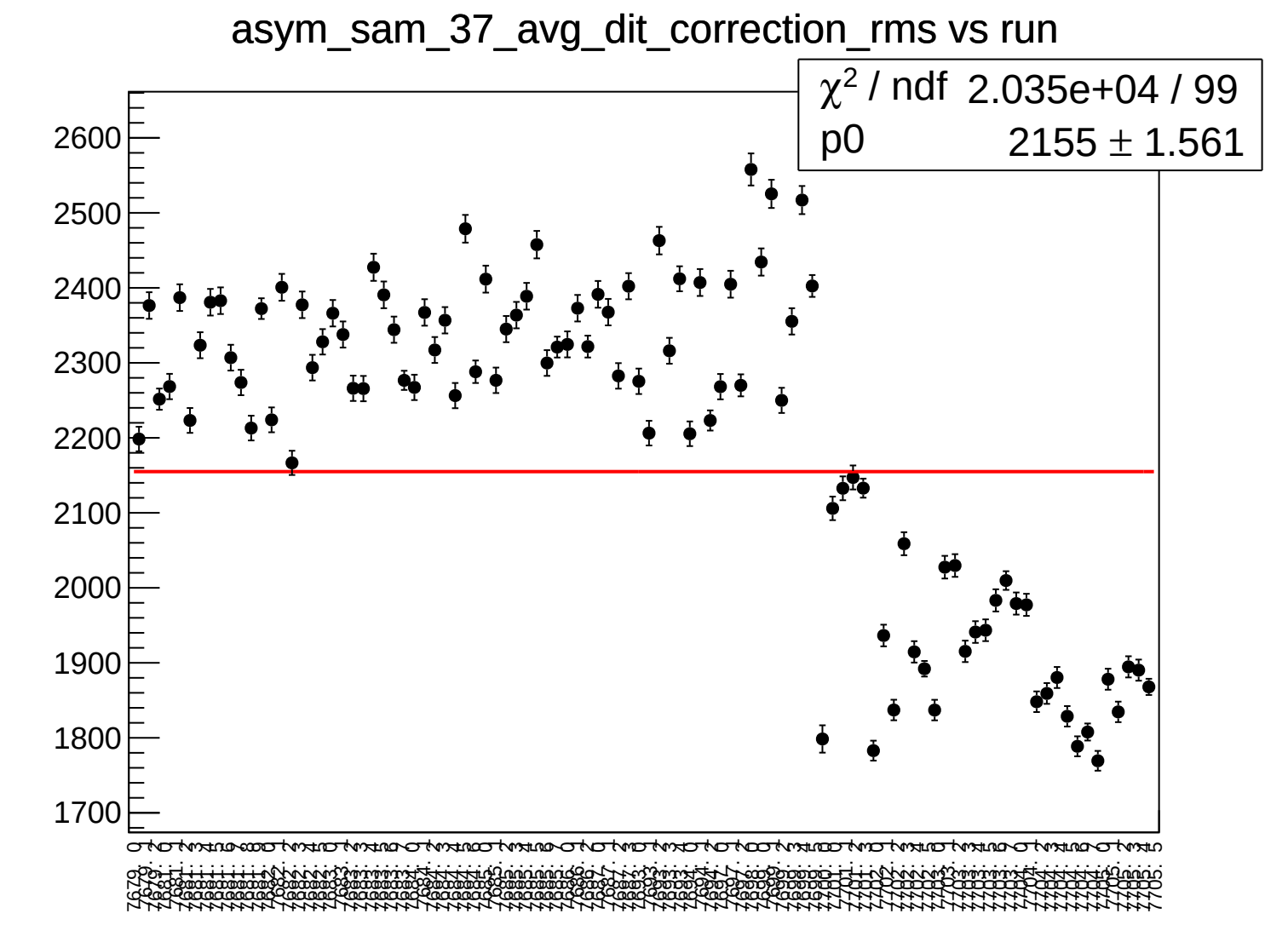

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 2.239e+04 / 99
p0 2195 ± 1.591
2600
2400
2200
2000
1800

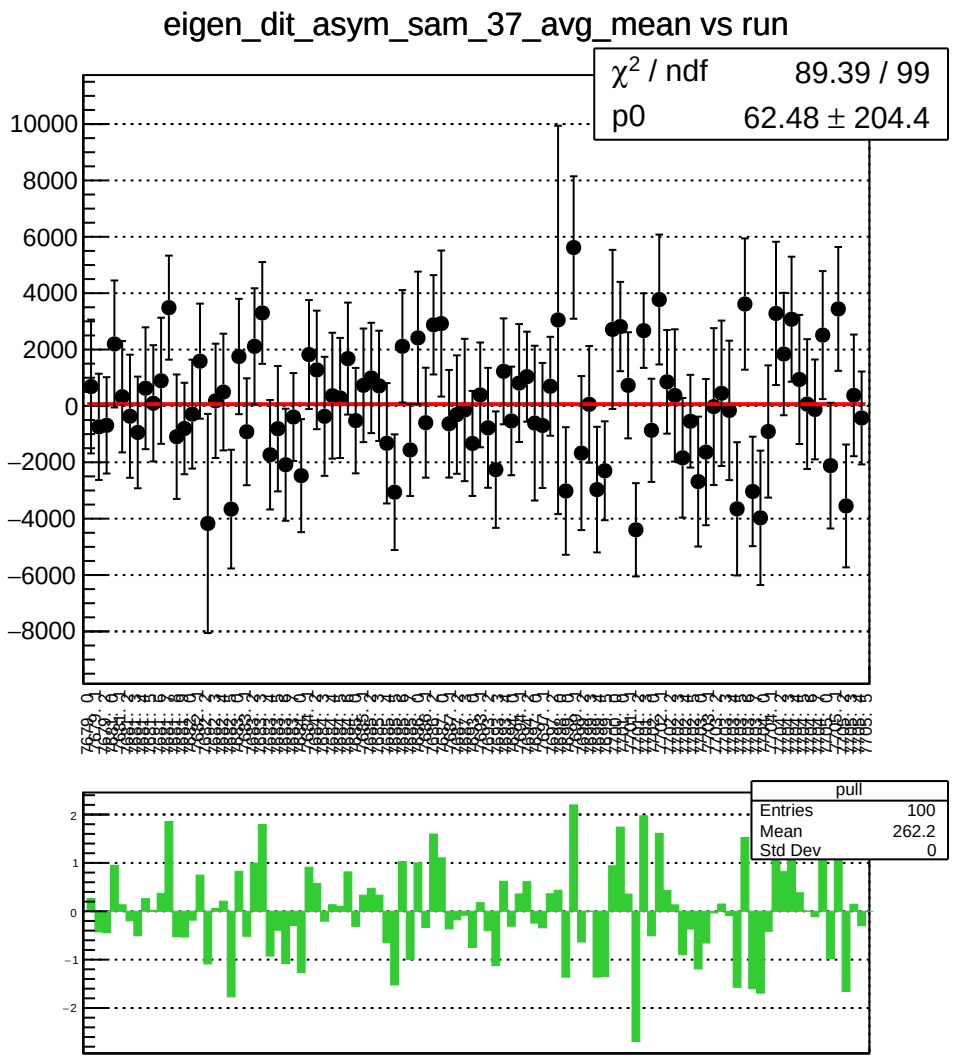

dit_asym_sam_37_avg_mean vs run
χ² / ndf 89.39 / 99
p0 62.49 ± 204.4
pull
Entries 100
Mean 262.3
Std Dev 0
pull1D
Entries 100
Mean −0.002938
Std Dev 0.9455

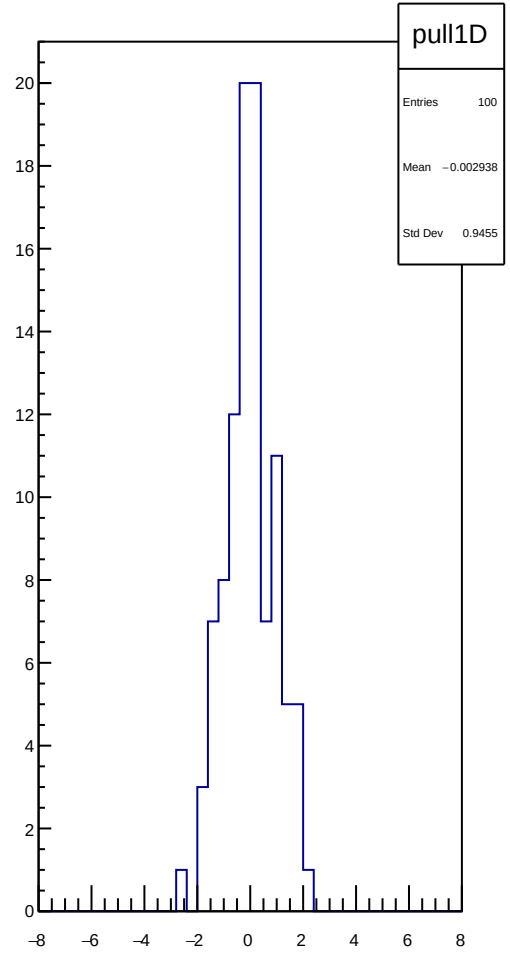

dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 3.062e+04 / 99
p0 199 ± 0.1446
600
500
400
300
200

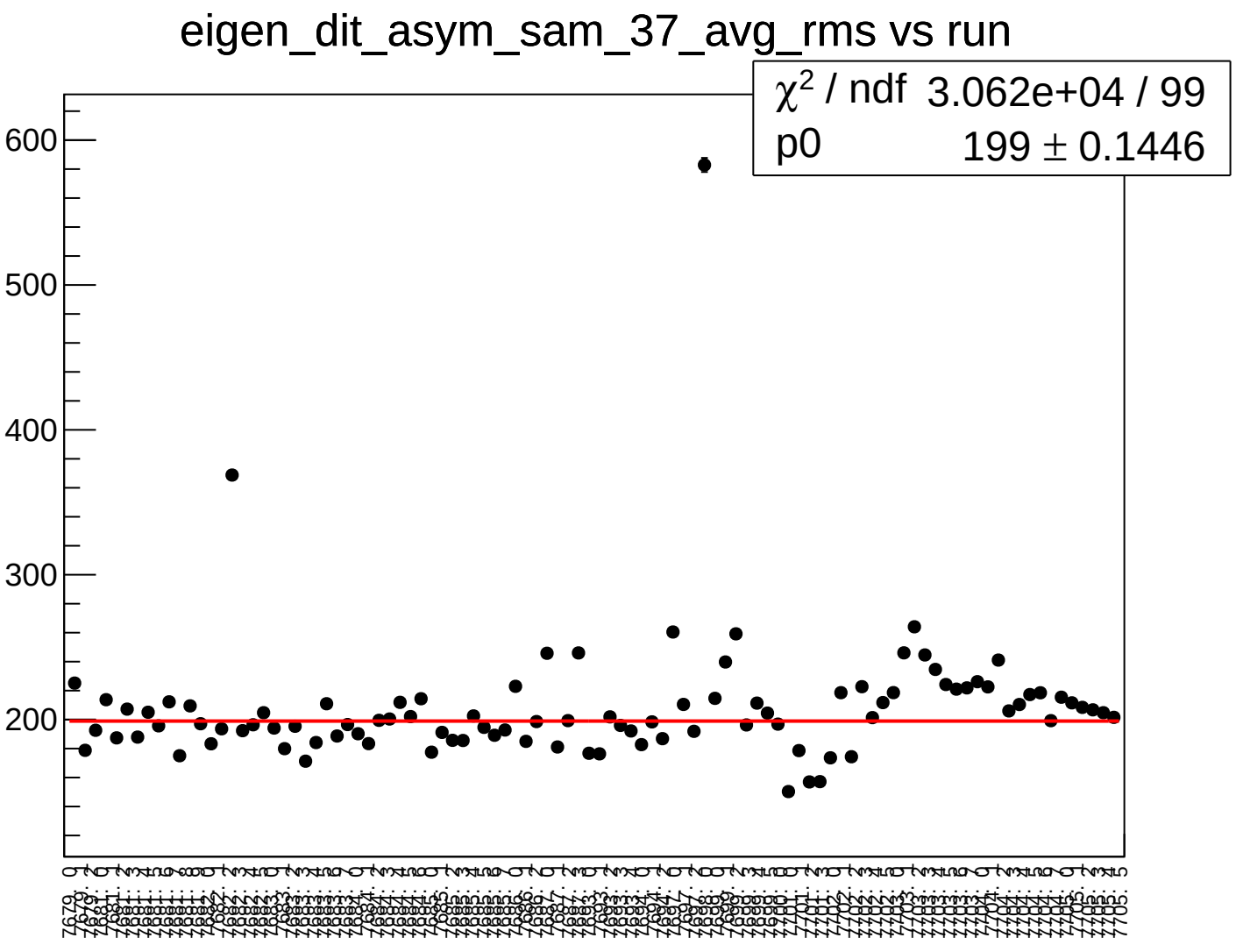

asym_sam_37_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 86.13 / 99
p0 307.5 ± 2208
pull
Entries 100
Mean −267.1
Std Dev 0

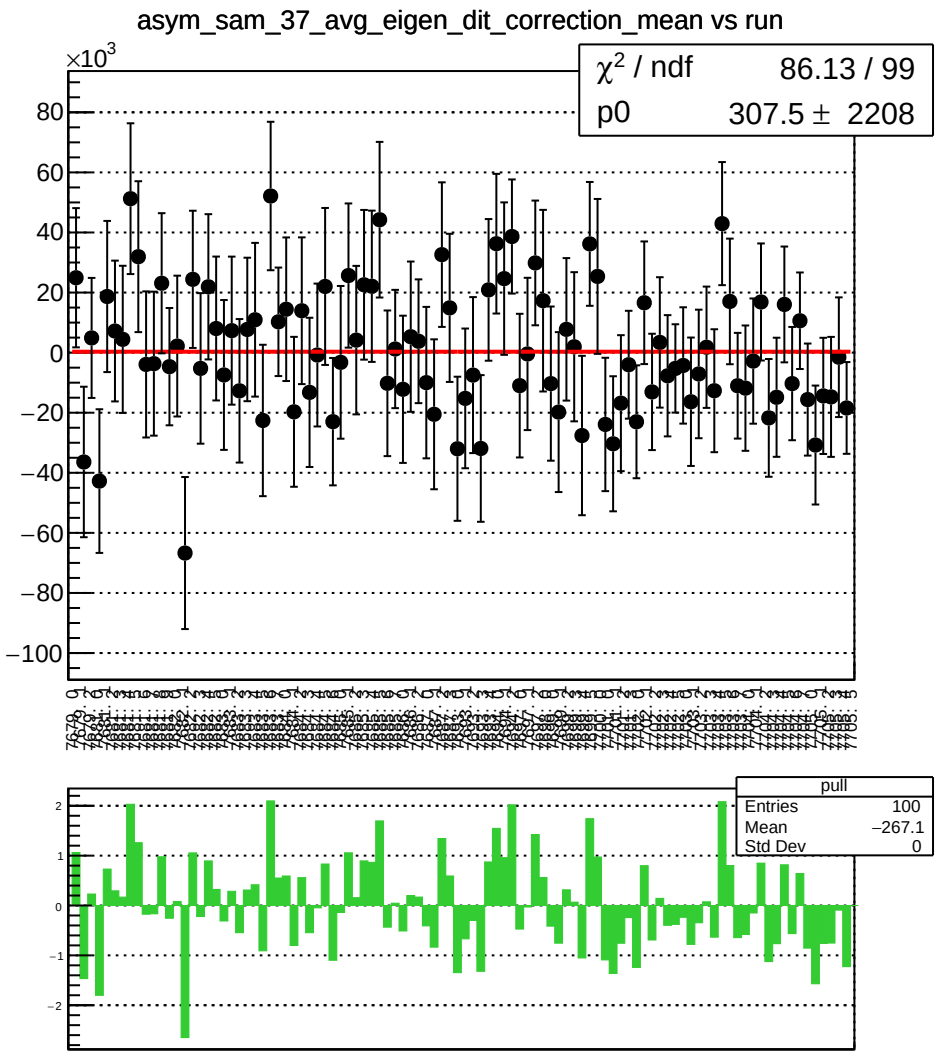

pull1D
Entries 100
Mean 0.0154
Std Dev 0.9279

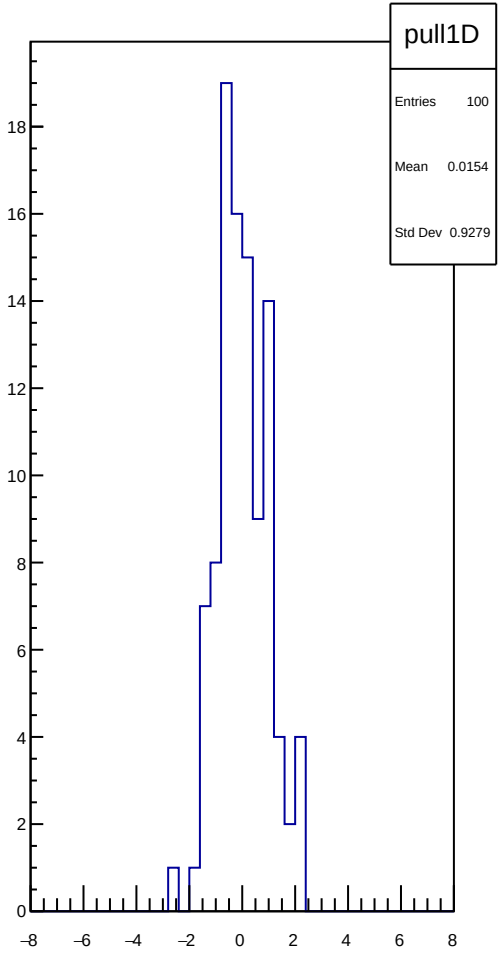

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 2.035e+04 / 99
p0 2155 ± 1.561
2600
2500
2400
2300
2200
2100
2000
1900
1800
1700

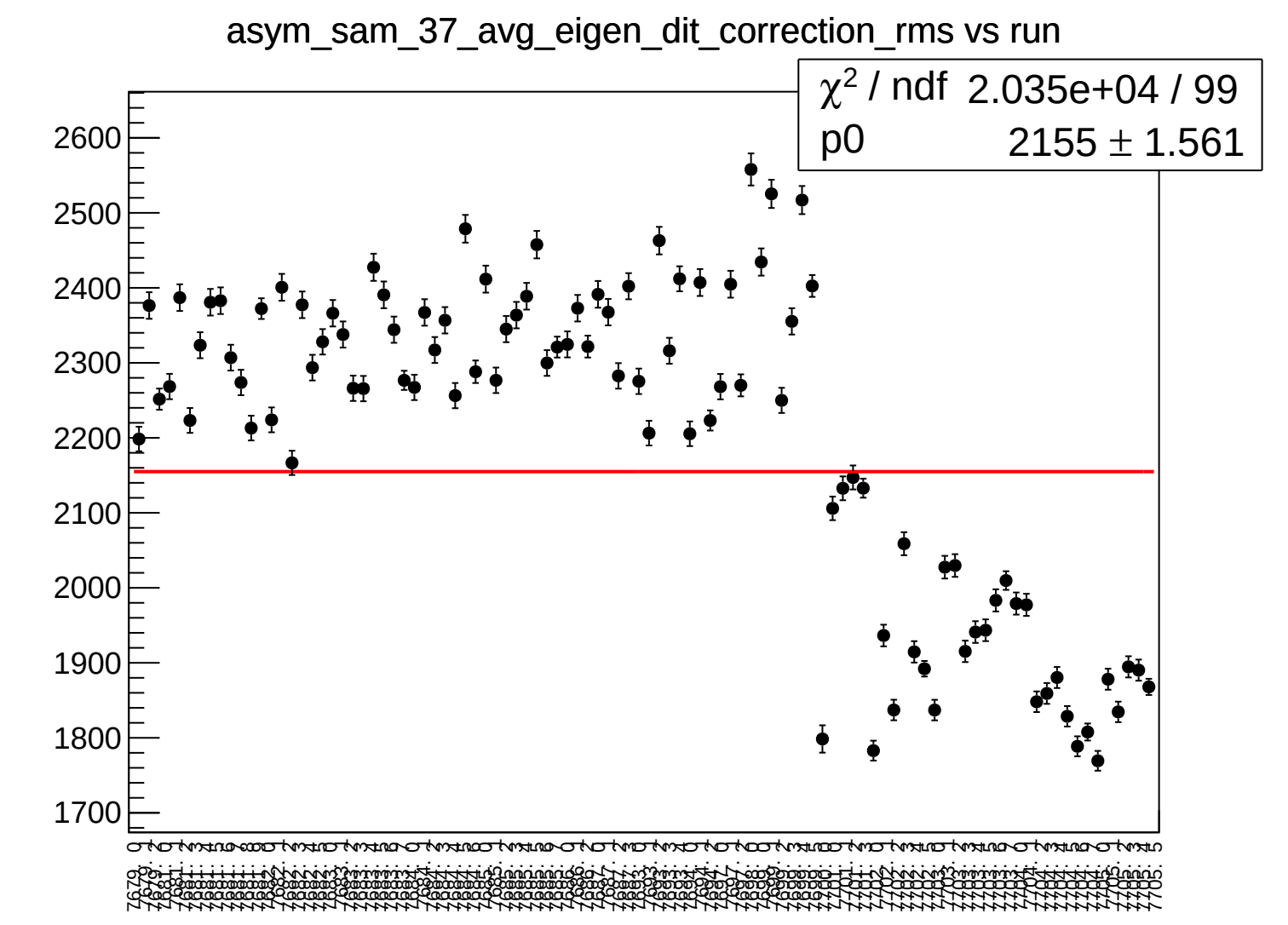

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 89.39 / 99
p0 62.48 ± 204.4
pull
Entries 100
Mean 262.2
Std Dev 0

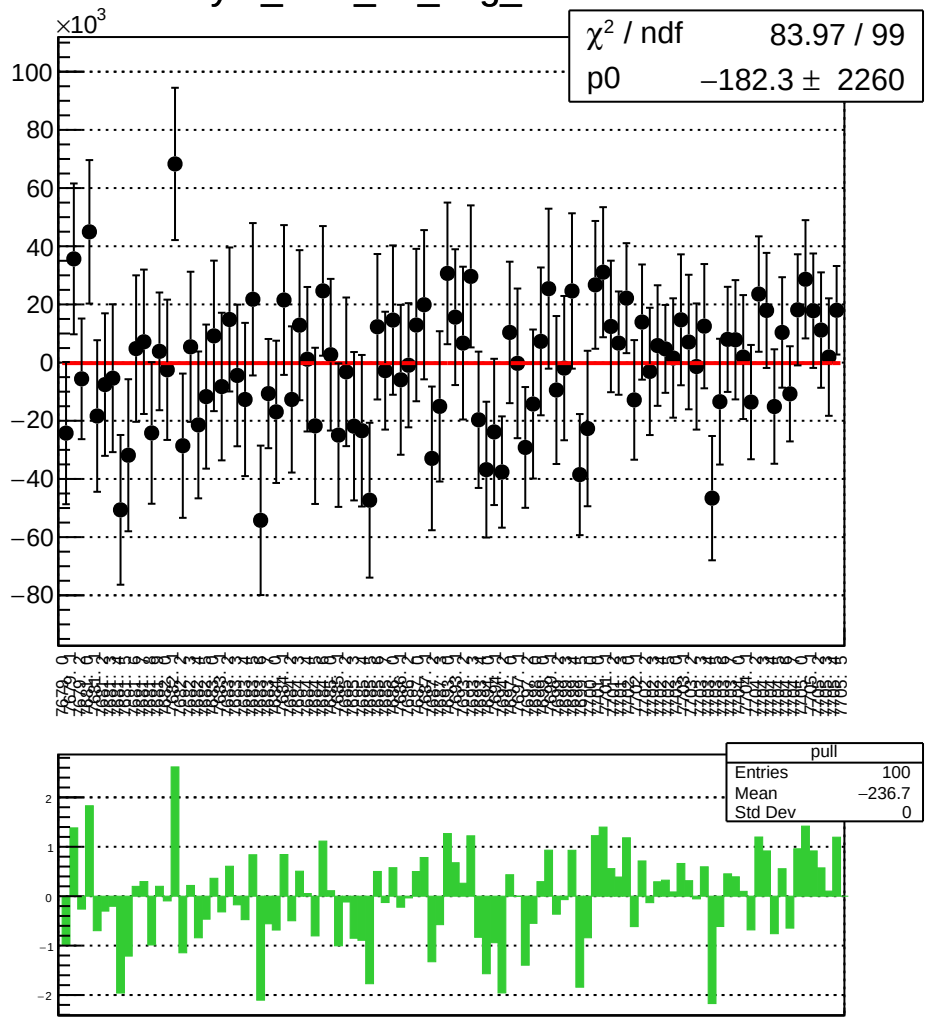

pull1D
Entries 100
Mean −0.002938
Std Dev 0.9455

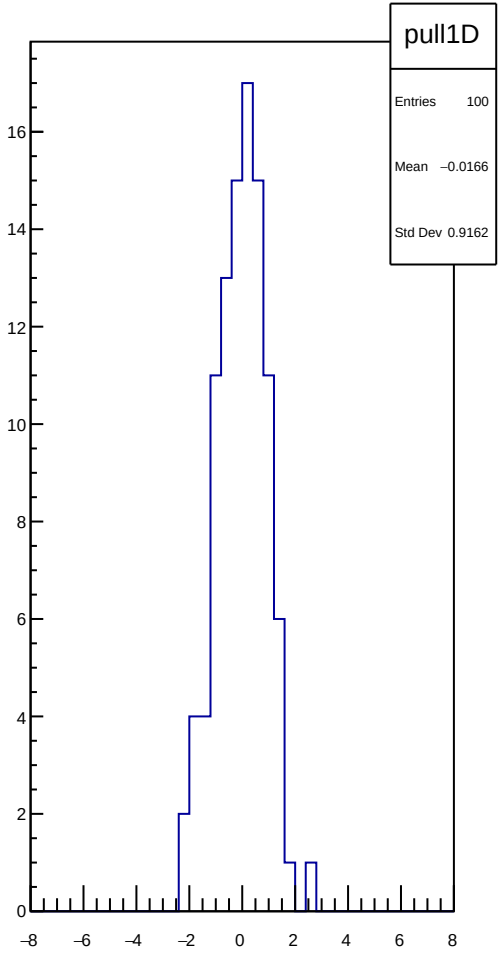

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 3.062e+04 / 99
p0 199 ± 0.1446
600
500
400
300
200

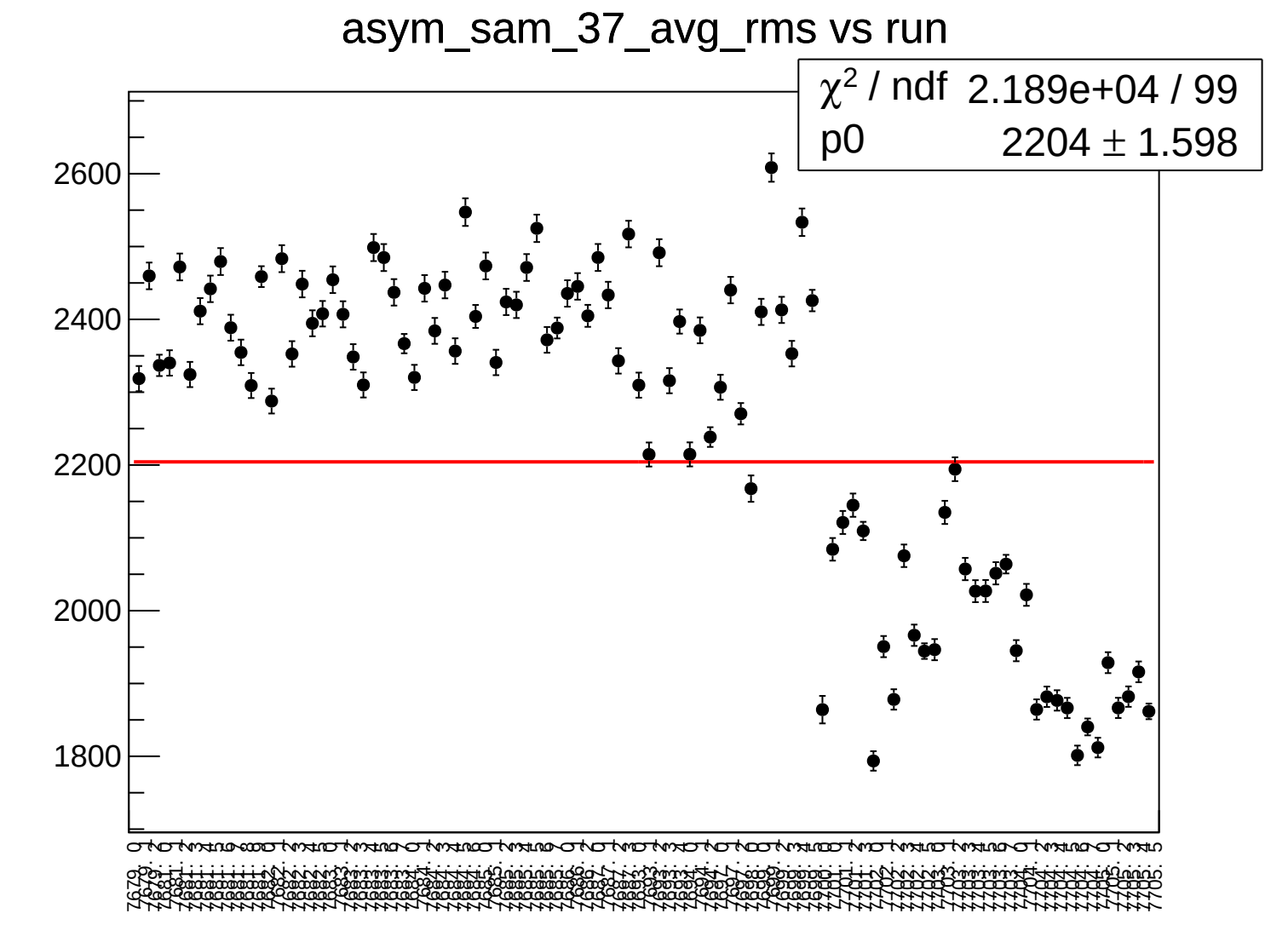

asym_sam_37_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 86.13 / 99
p0 307.5 ± 2208
pull
Entries 100
Mean −267.1
Std Dev 0

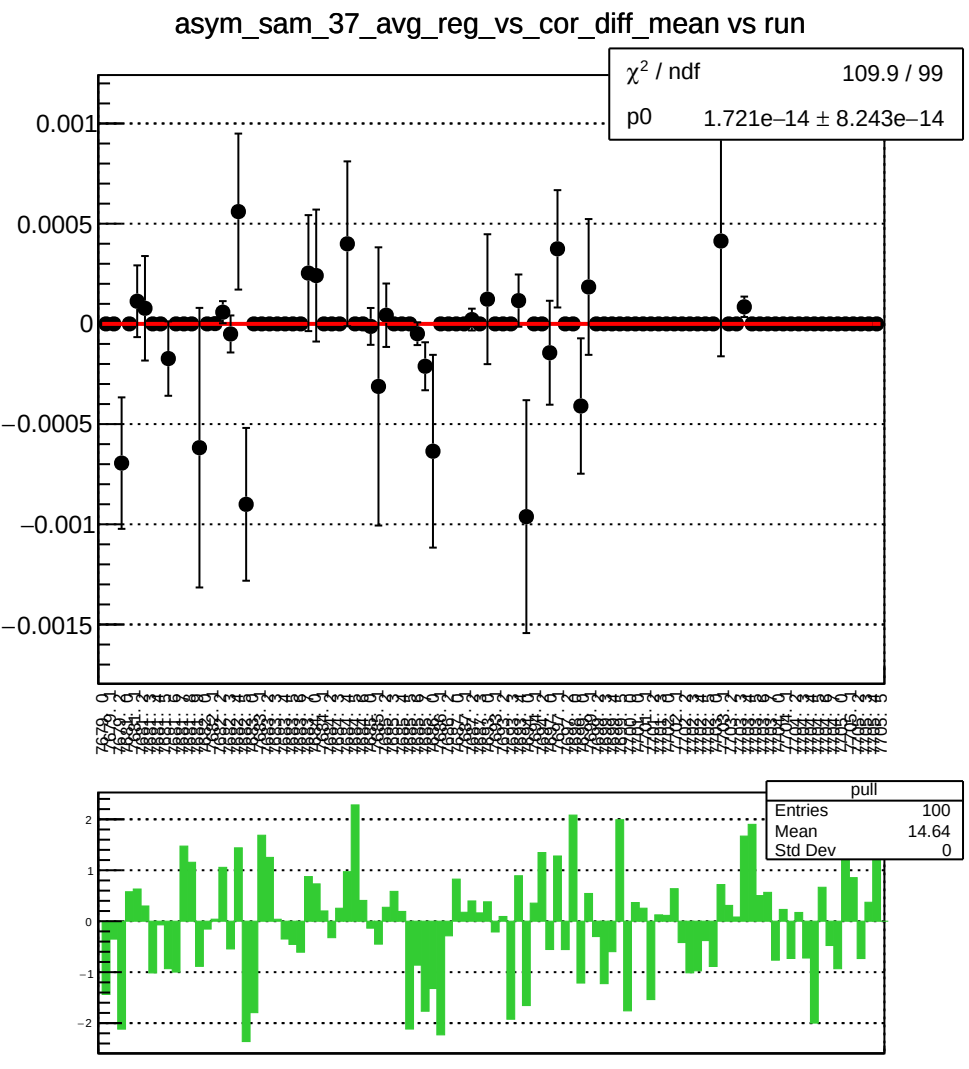

pull1D
Entries 100
Mean 0.0154
Std Dev 0.9279

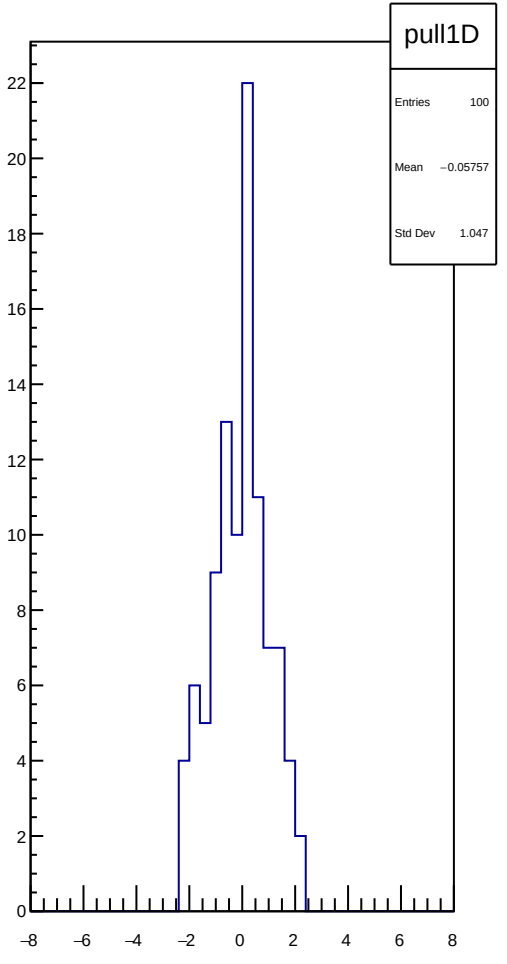

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.035e+04 / 99
p0 2155 ± 1.561
2600
2500
2400
2300
2200
2100
2000
1900
1800
1700

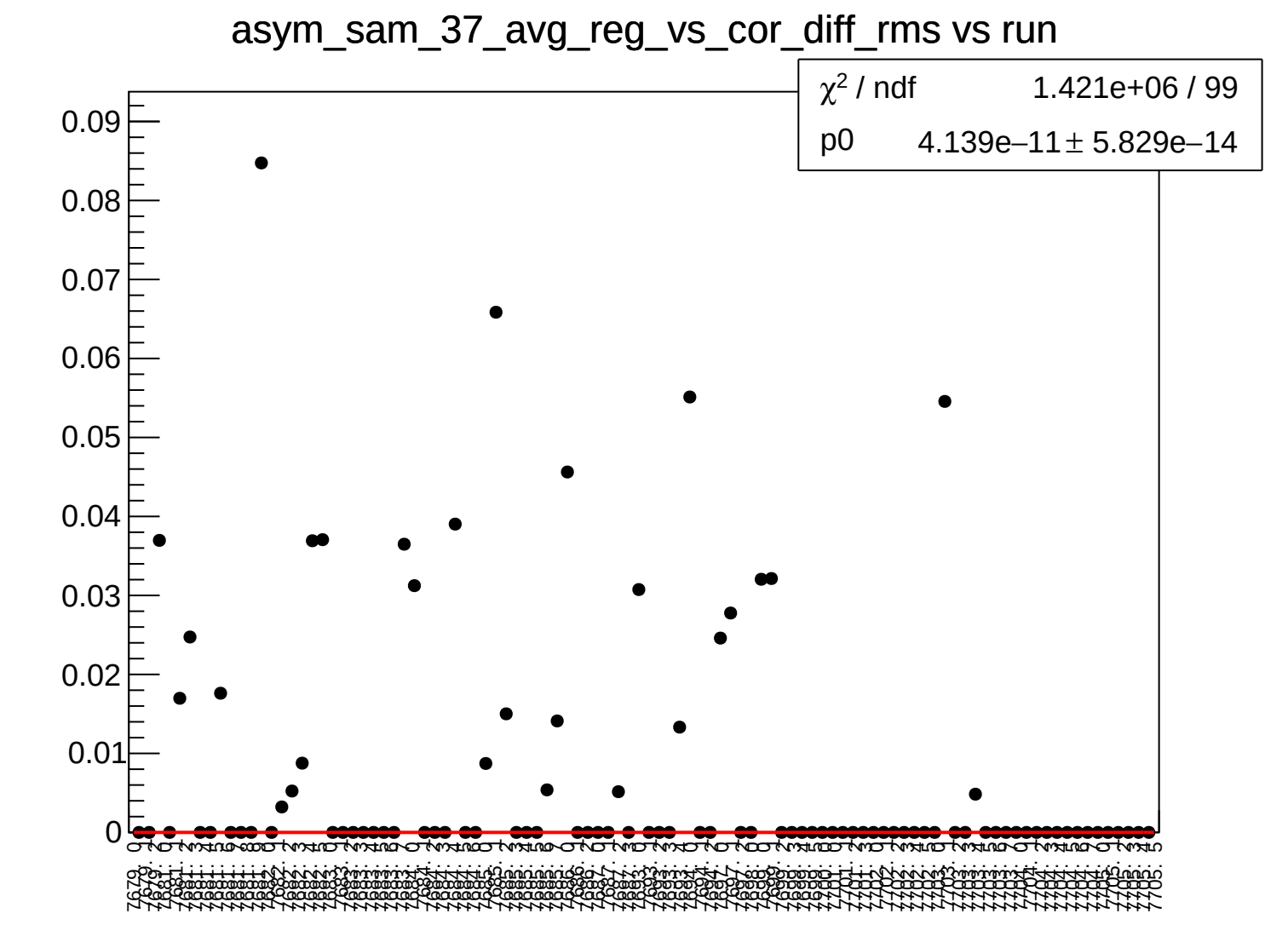

asym_sam_37_avg_mean vs run
×10^3
χ² / ndf 83.97 / 99
p0 −182.3 ± 2260
pull
Entries 100
Mean −236.7
Std Dev 0

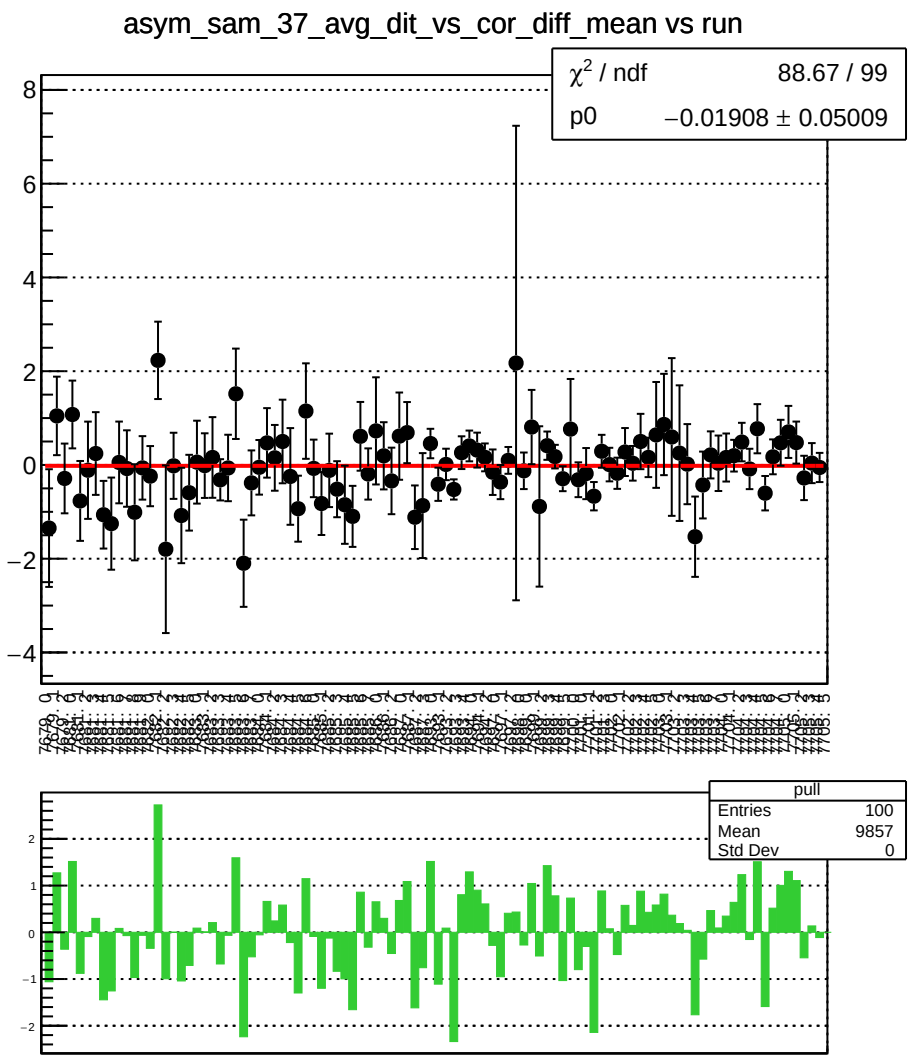

pull1D
Entries 100
Mean −0.0166
Std Dev 0.9162

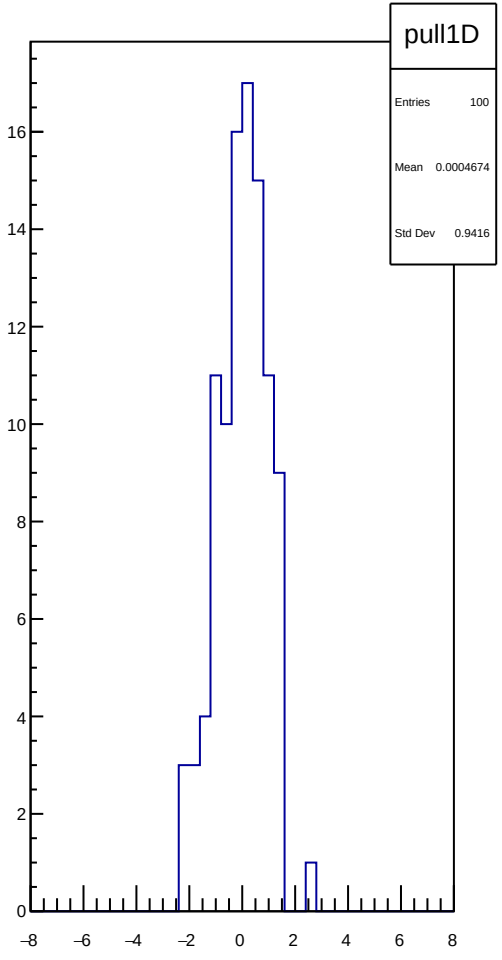

asym_sam_37_avg_rms vs run
χ² / ndf 2.189e+04 / 99
p0 2204 ± 1.598
2600
2400
2200
2000
1800

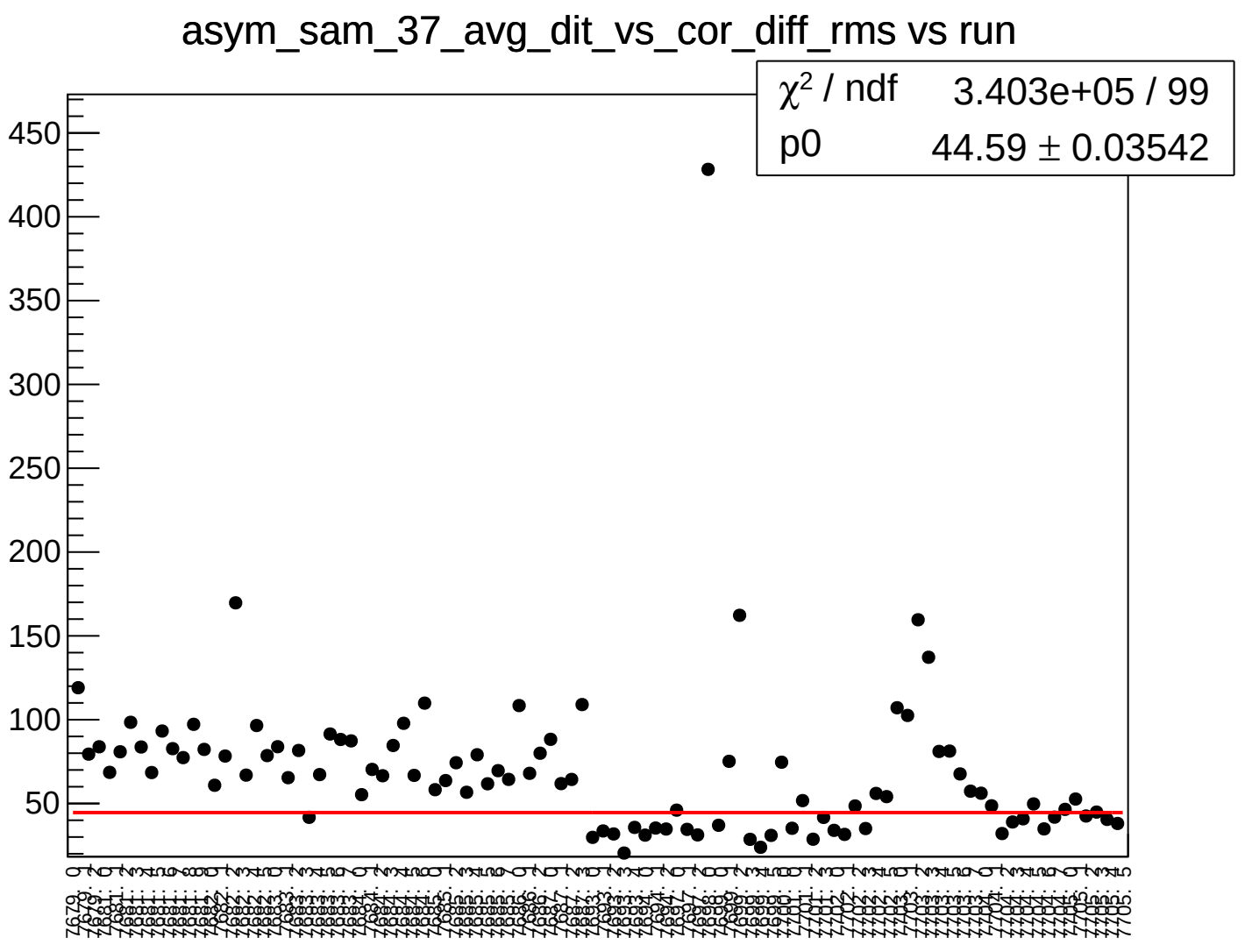

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 109.9 / 99
p0 1.721e−14 ± 8.243e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 100
Mean 14.64
Std Dev 0
2
1
0
−1
−2

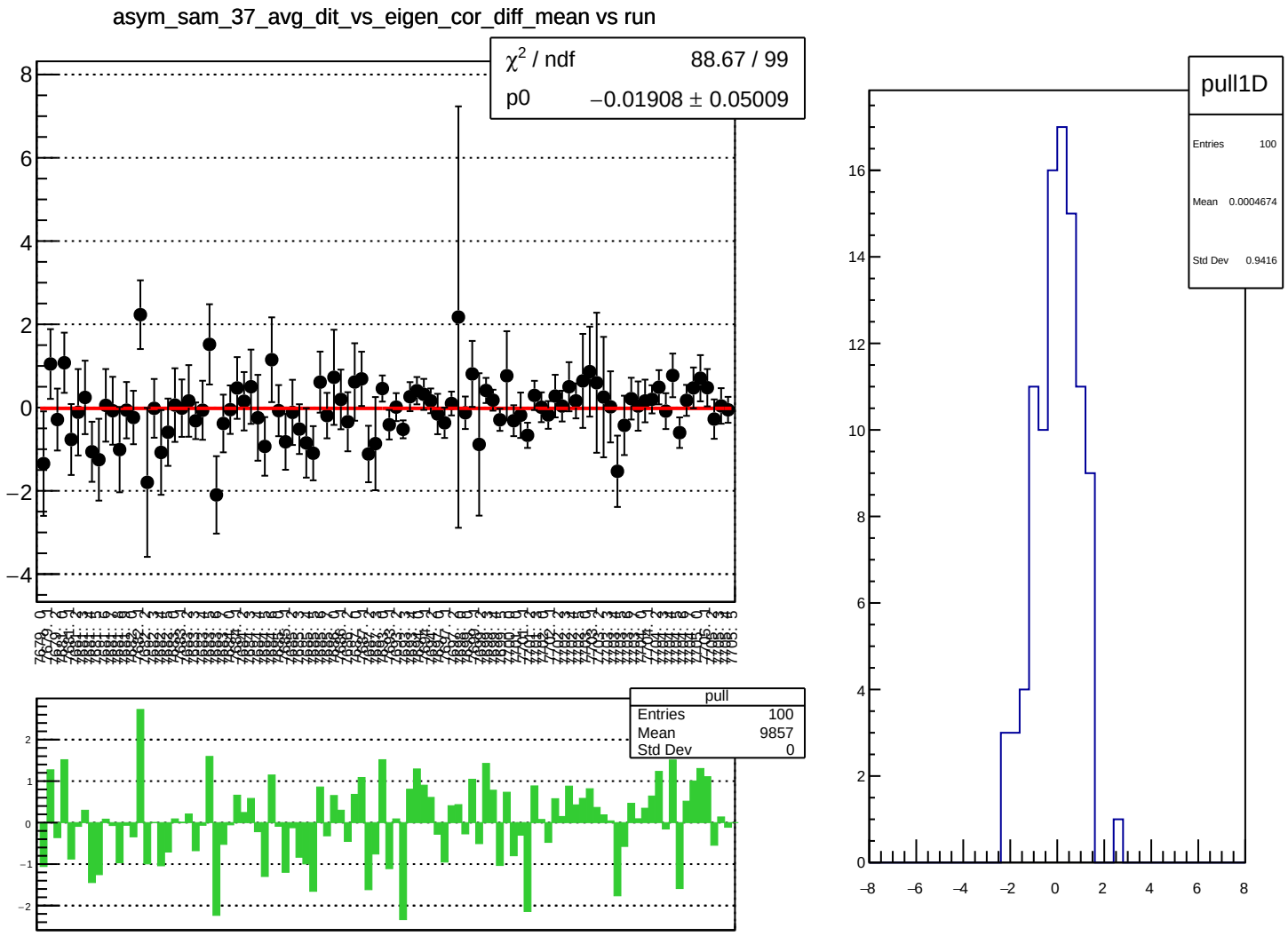

pull1D
Entries 100
Mean −0.05757
Std Dev 1.047
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

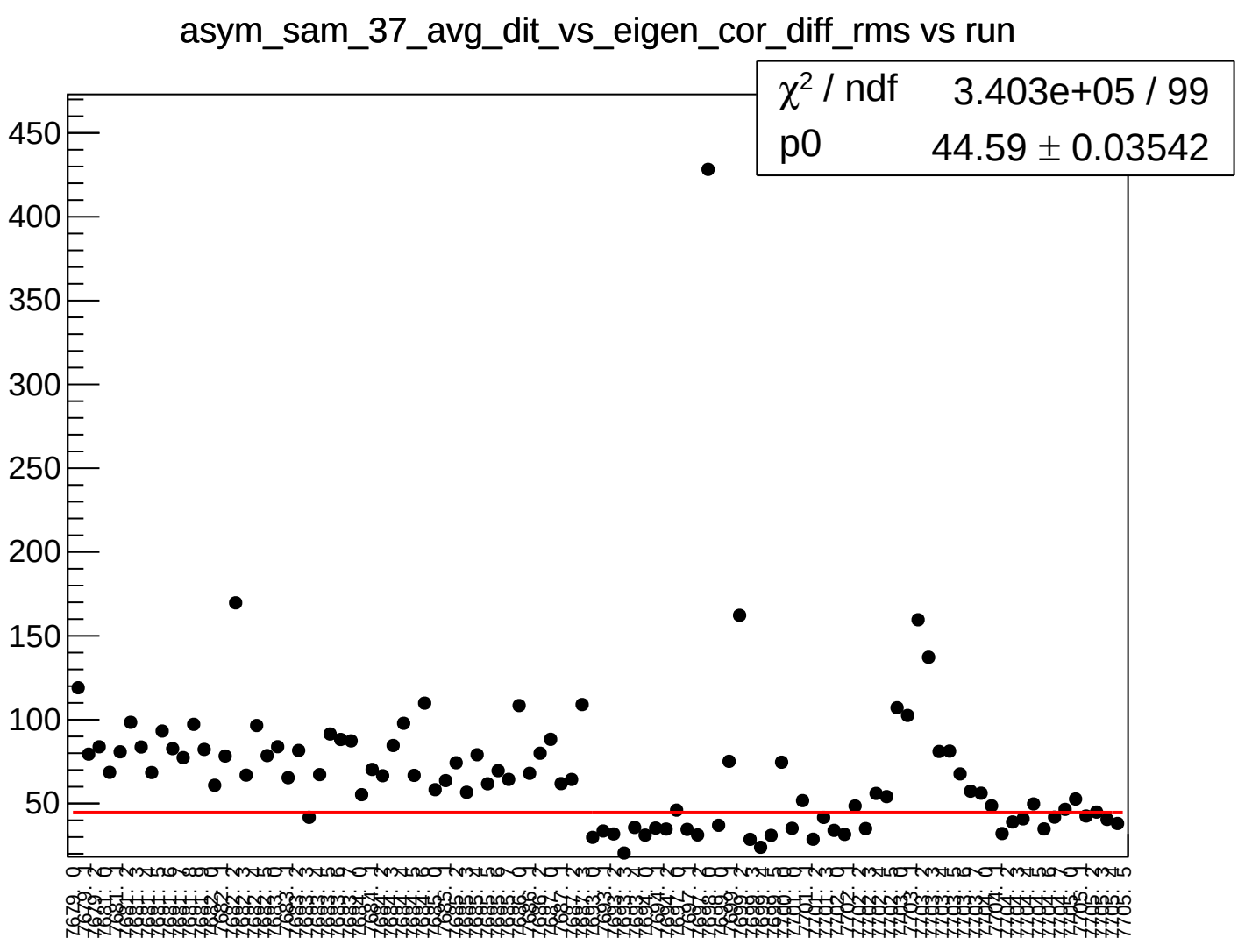

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.421e+06 / 99
p0 4.139e−11 ± 5.829e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

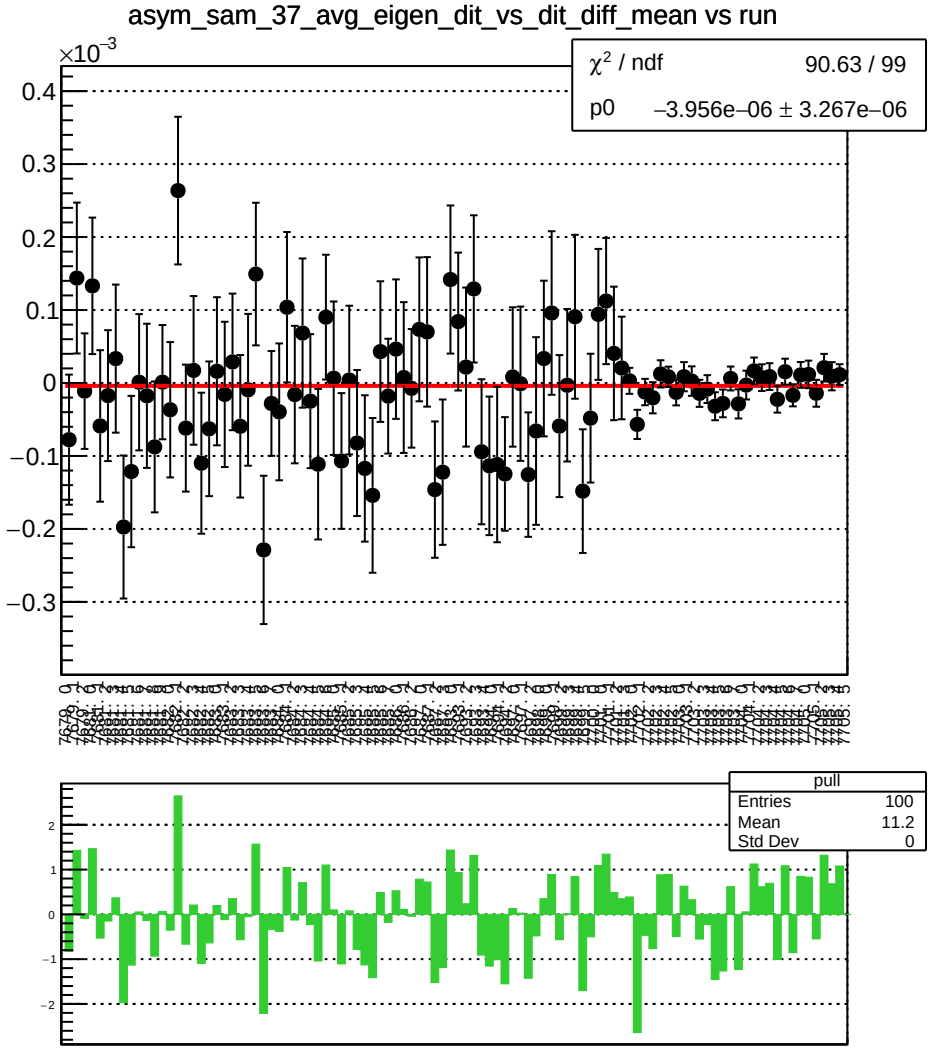

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.67 / 99
p0 −0.01908 ± 0.05009
pull
Entries 100
Mean 9857
Std Dev 0

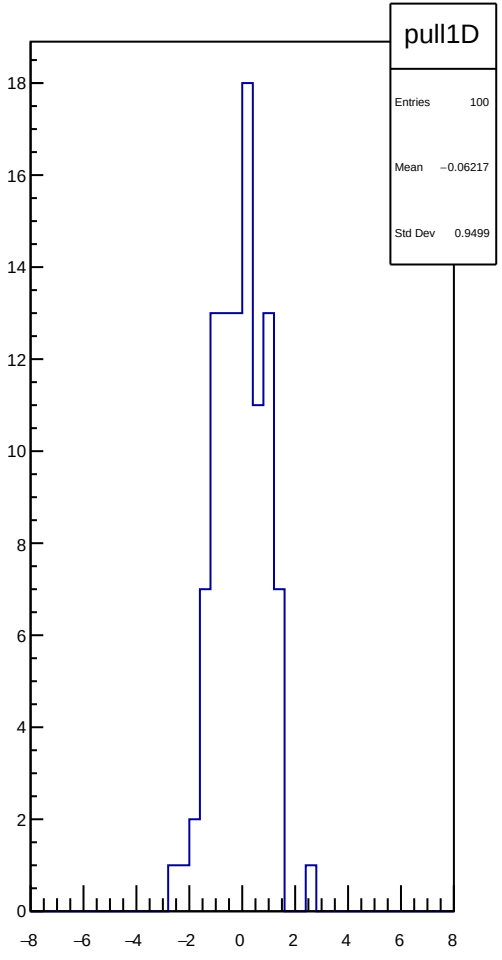

pull1D
Entries 100
Mean 0.0004674
Std Dev 0.9416

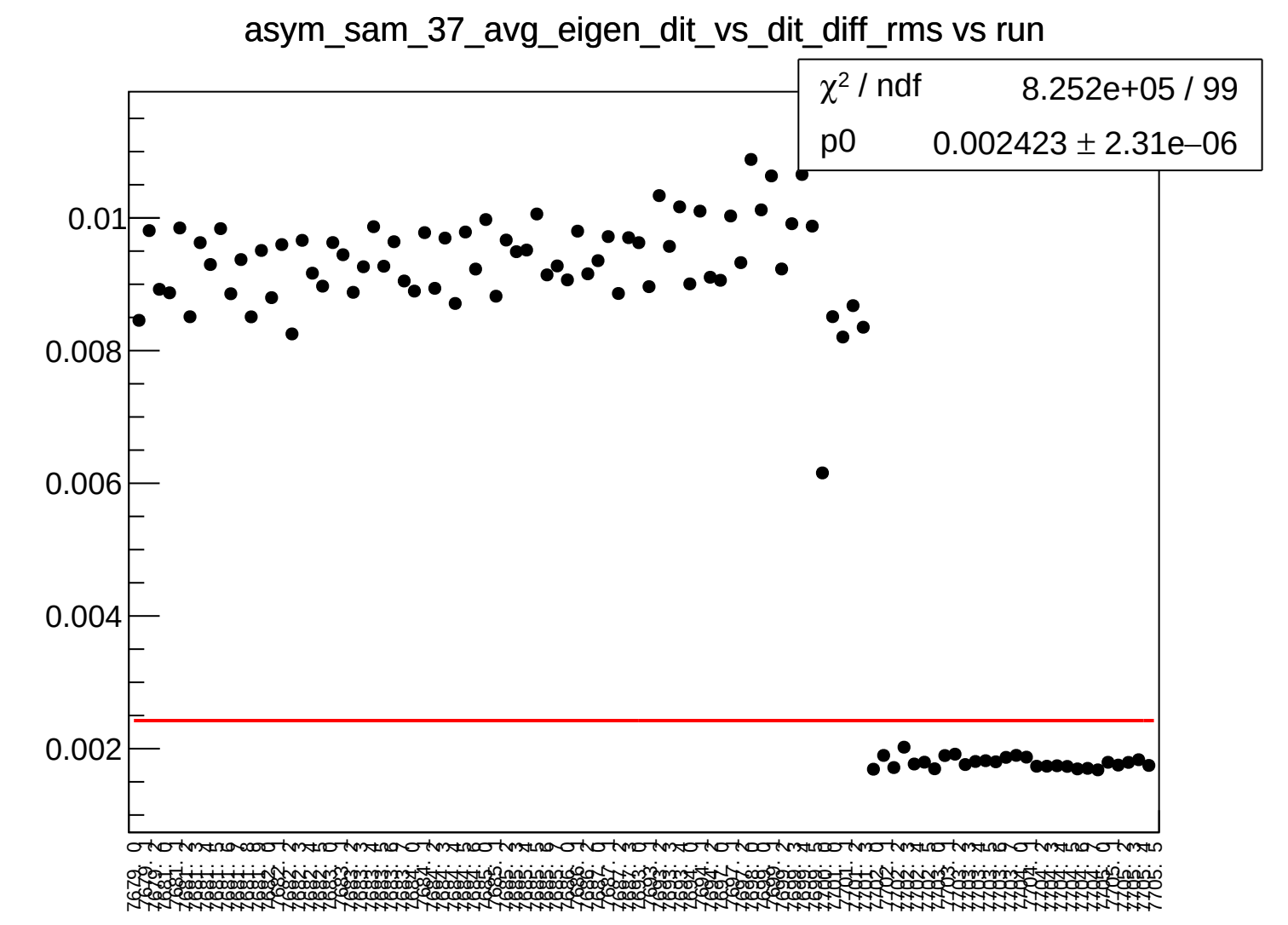

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.403e+05 / 99
p0 44.59 ± 0.03542
450
400
350
300
250
200
150
100
50

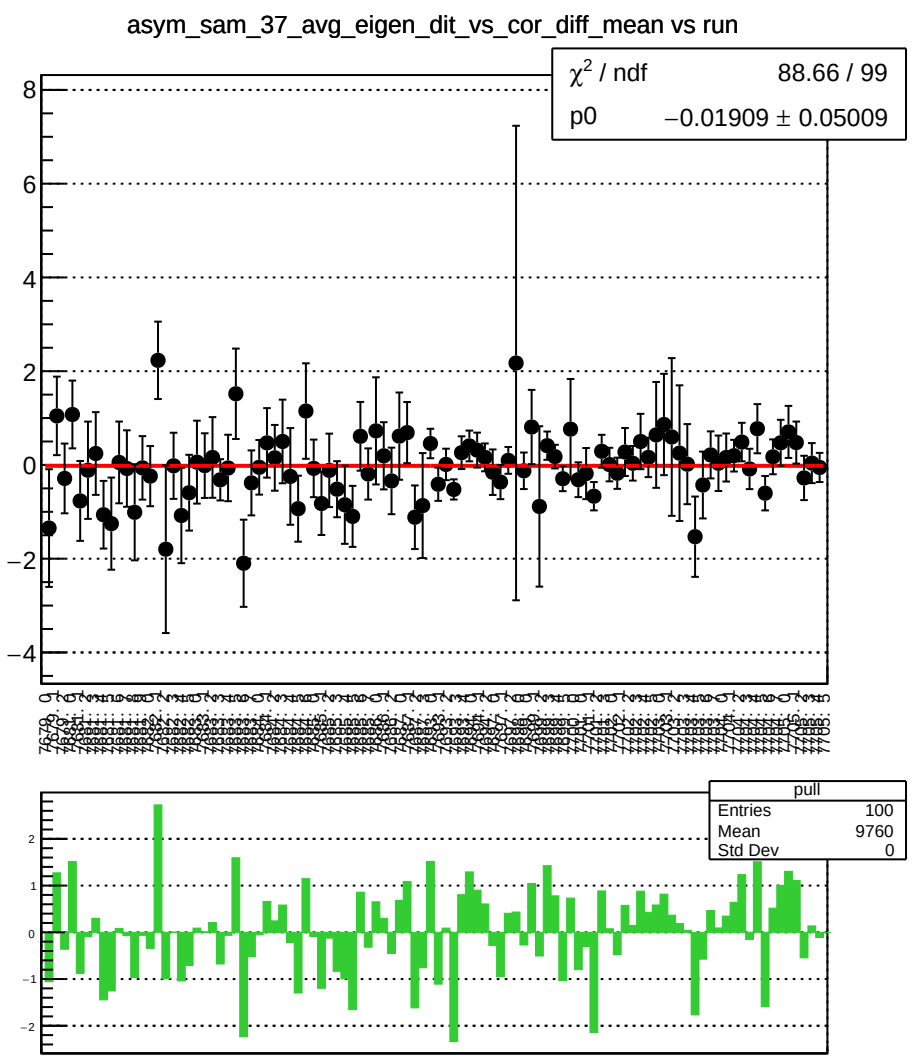

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.67 / 99
p0 −0.01908 ± 0.05009
pull
Entries 100
Mean 9857
Std Dev 0
pull1D
Entries 100
Mean 0.0004674
Std Dev 0.9416

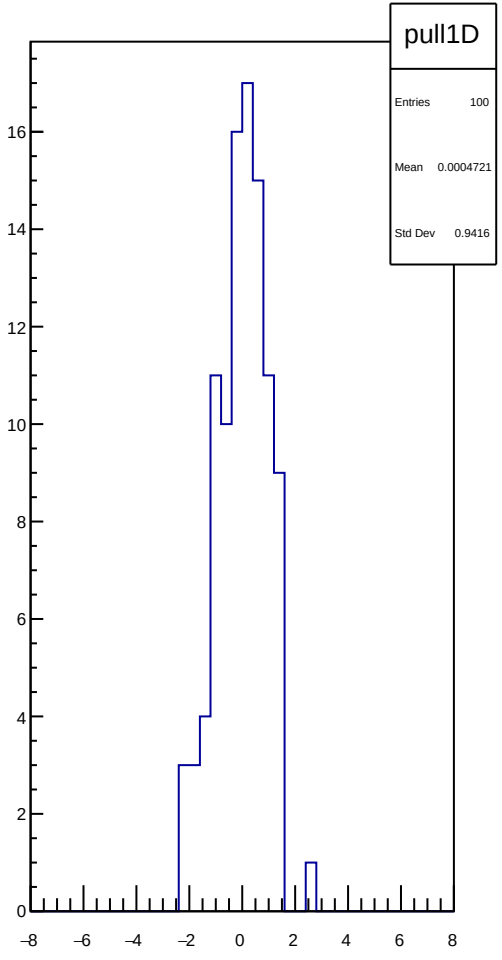

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.403e+05 / 99
p0 44.59 ± 0.03542
450
400
350
300
250
200
150
100
50

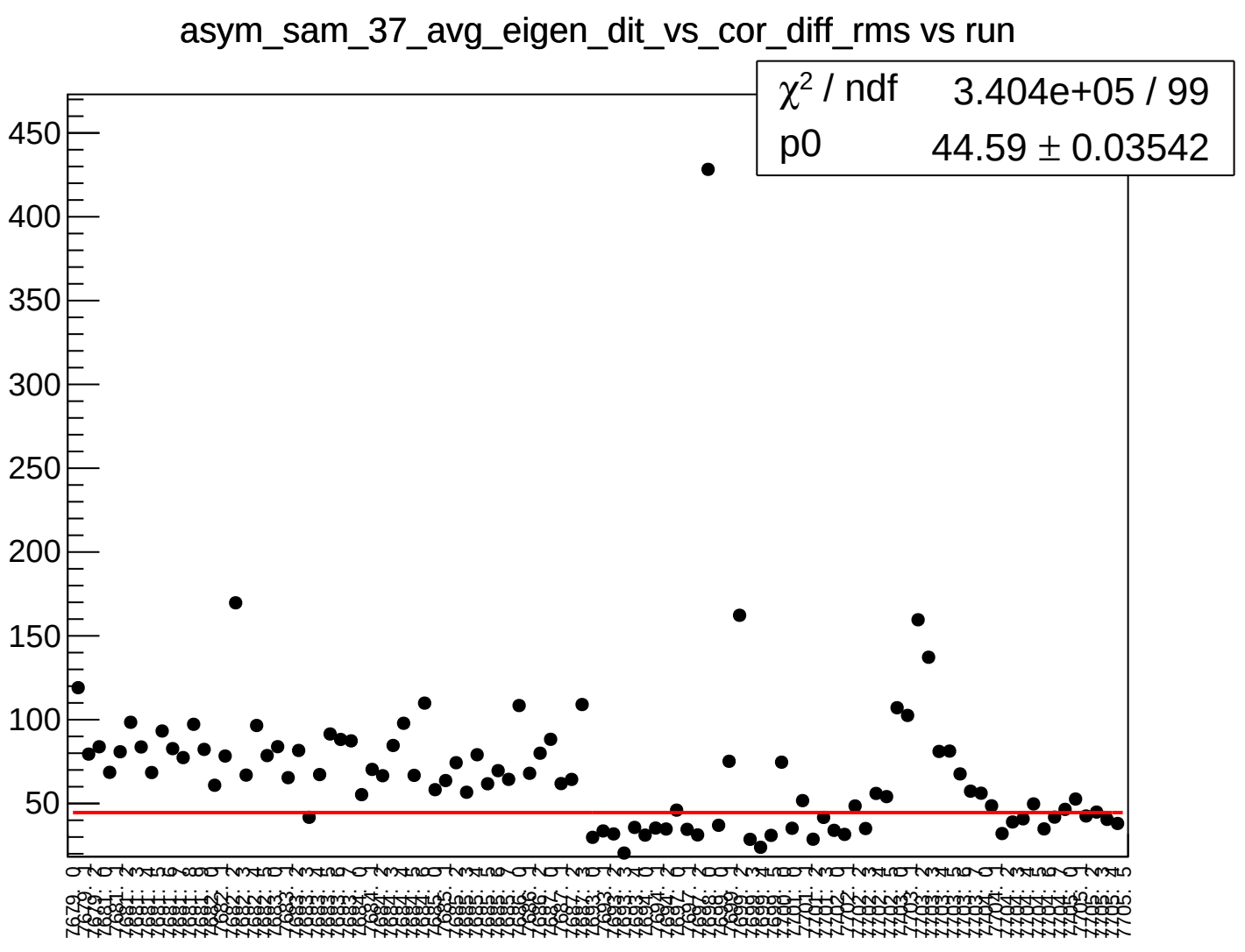

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.63 / 99
p0 −3.956e−06 ± 3.267e−06
pull
Entries 100
Mean 11.2
Std Dev 0

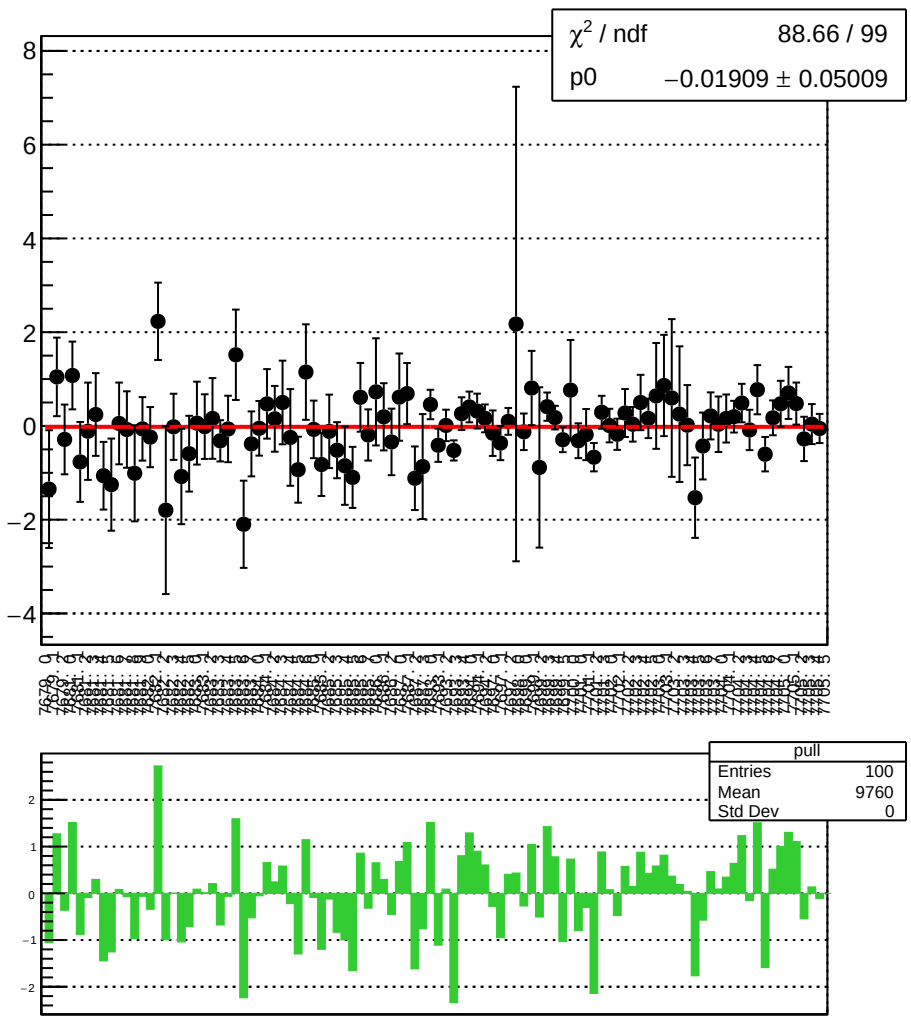

pull1D
Entries 100
Mean −0.06217
Std Dev 0.9499

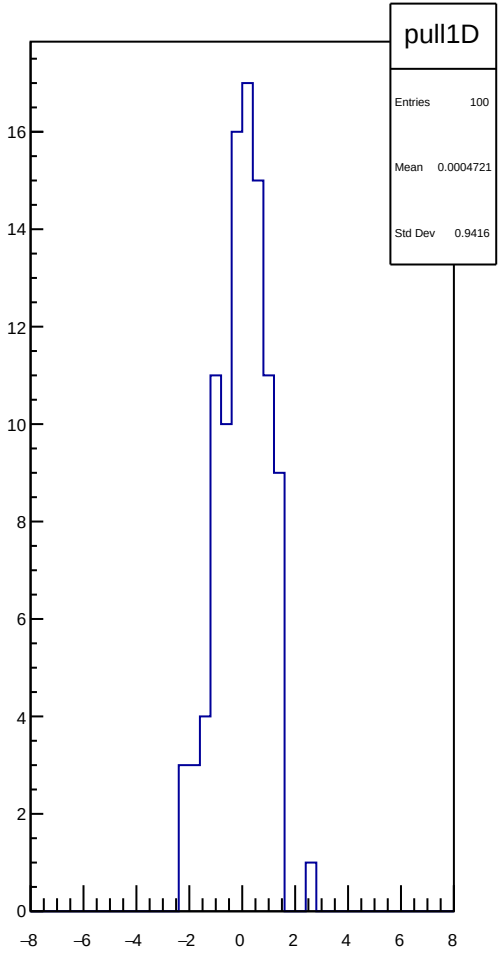

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.252e+05 / 99
p0 0.002423 ± 2.31e−06
0.01
0.008
0.006
0.004
0.002

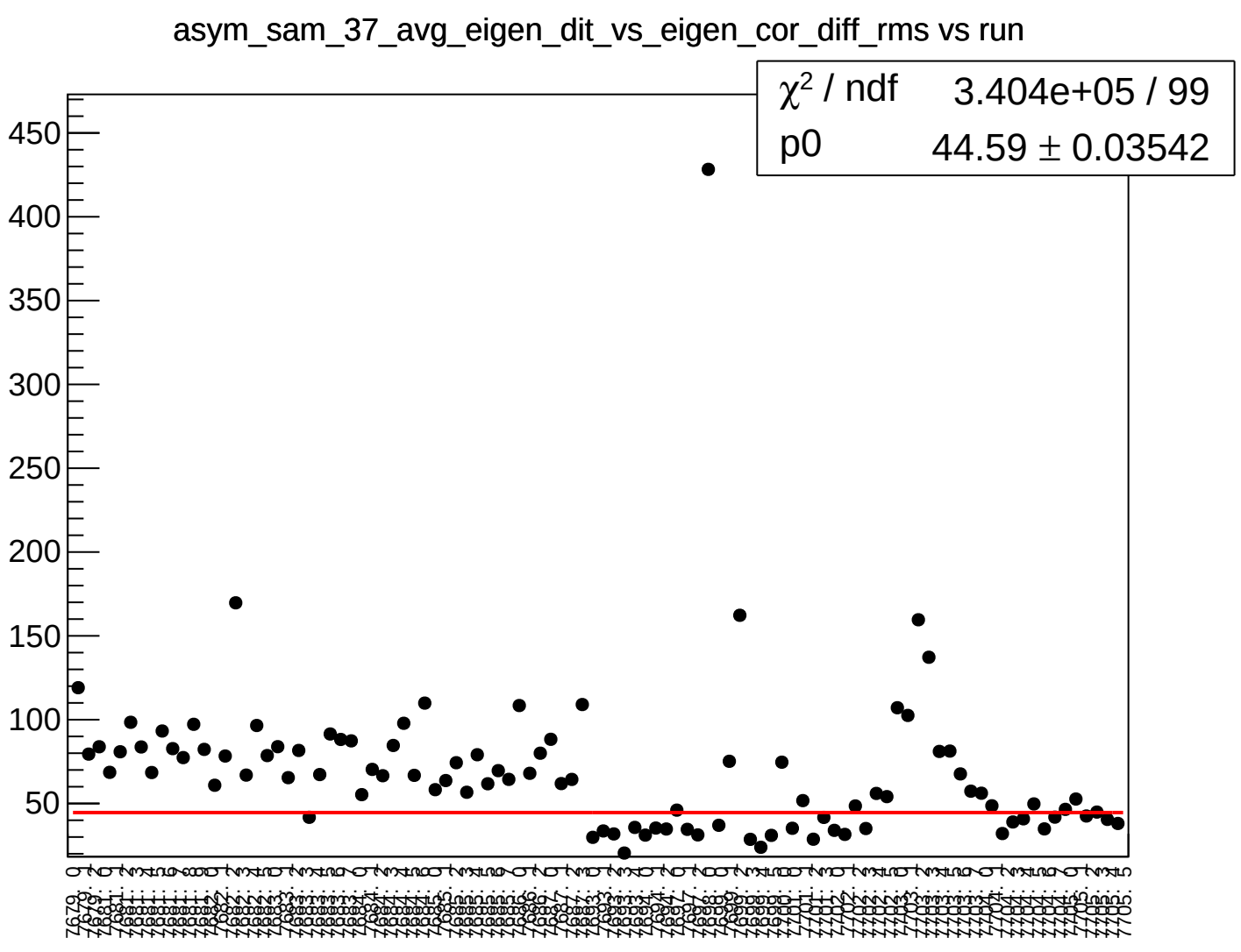

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.66 / 99
p0 −0.01909 ± 0.05009
pull
Entries 100
Mean 9760
Std Dev 0

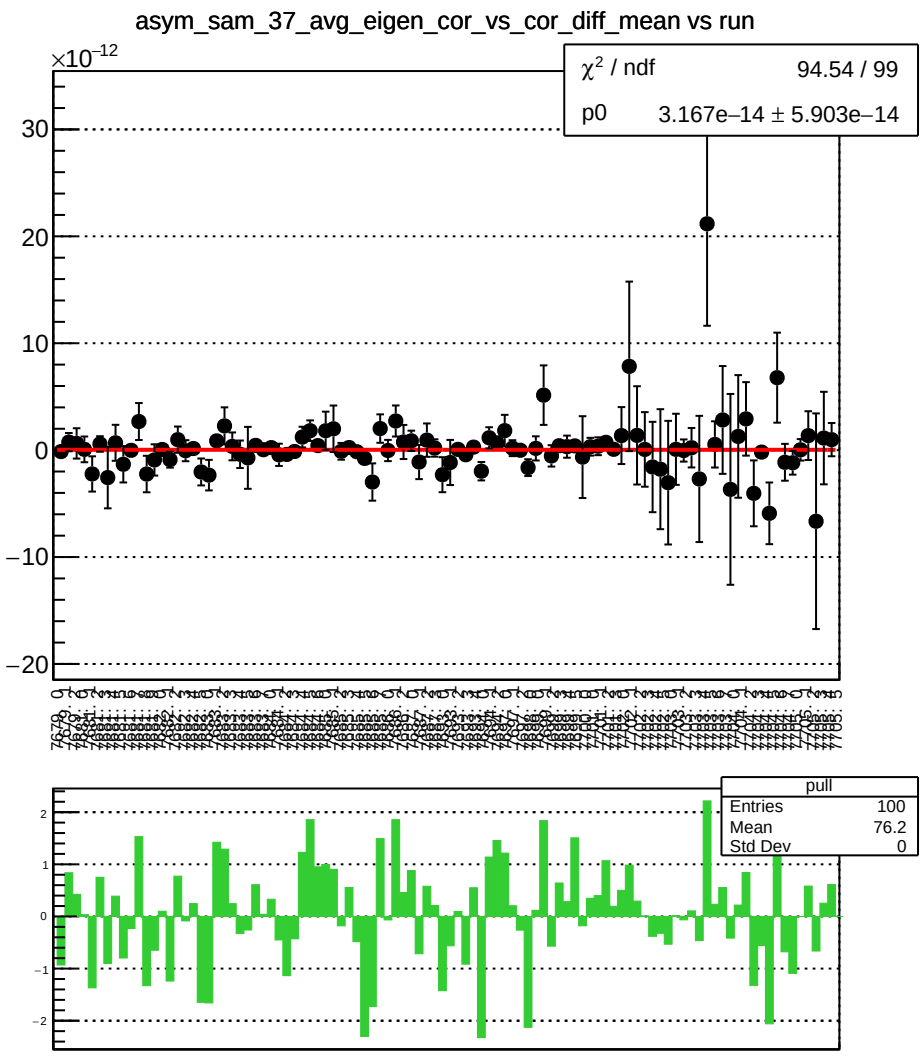

pull1D
Entries 100
Mean 0.0004721
Std Dev 0.9416

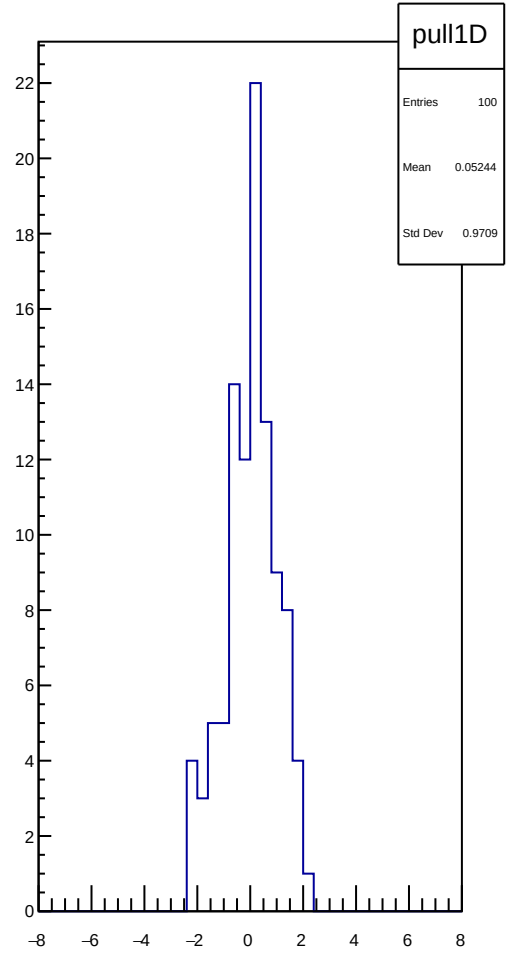

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.404e+05 / 99
p0 44.59 ± 0.03542
450
400
350
300
250
200
150
100
50

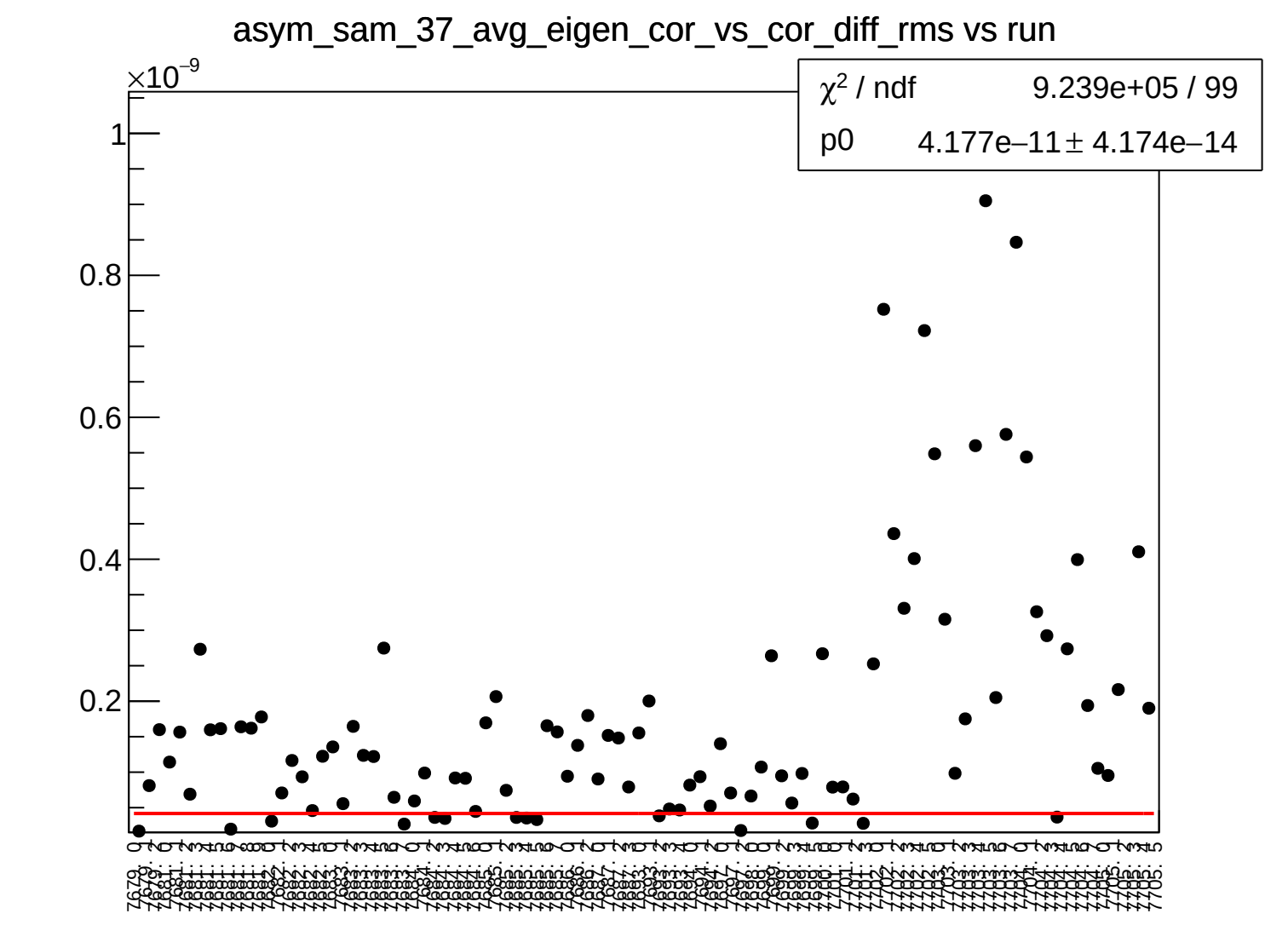

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.66 / 99
p0 −0.01909 ± 0.05009
pull
Entries 100
Mean 9760
Std Dev 0

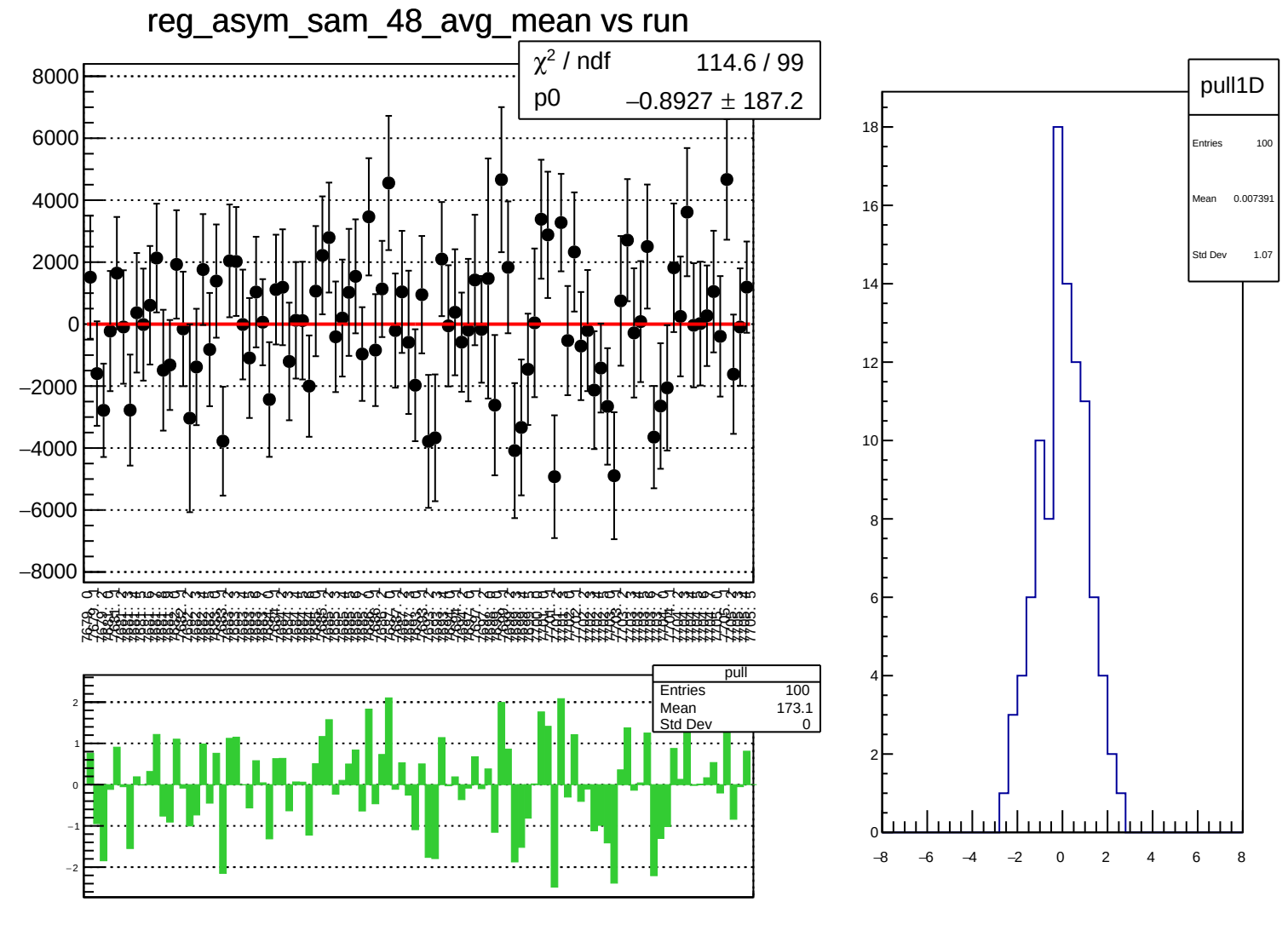

pull1D
Entries 100
Mean 0.0004721
Std Dev 0.9416

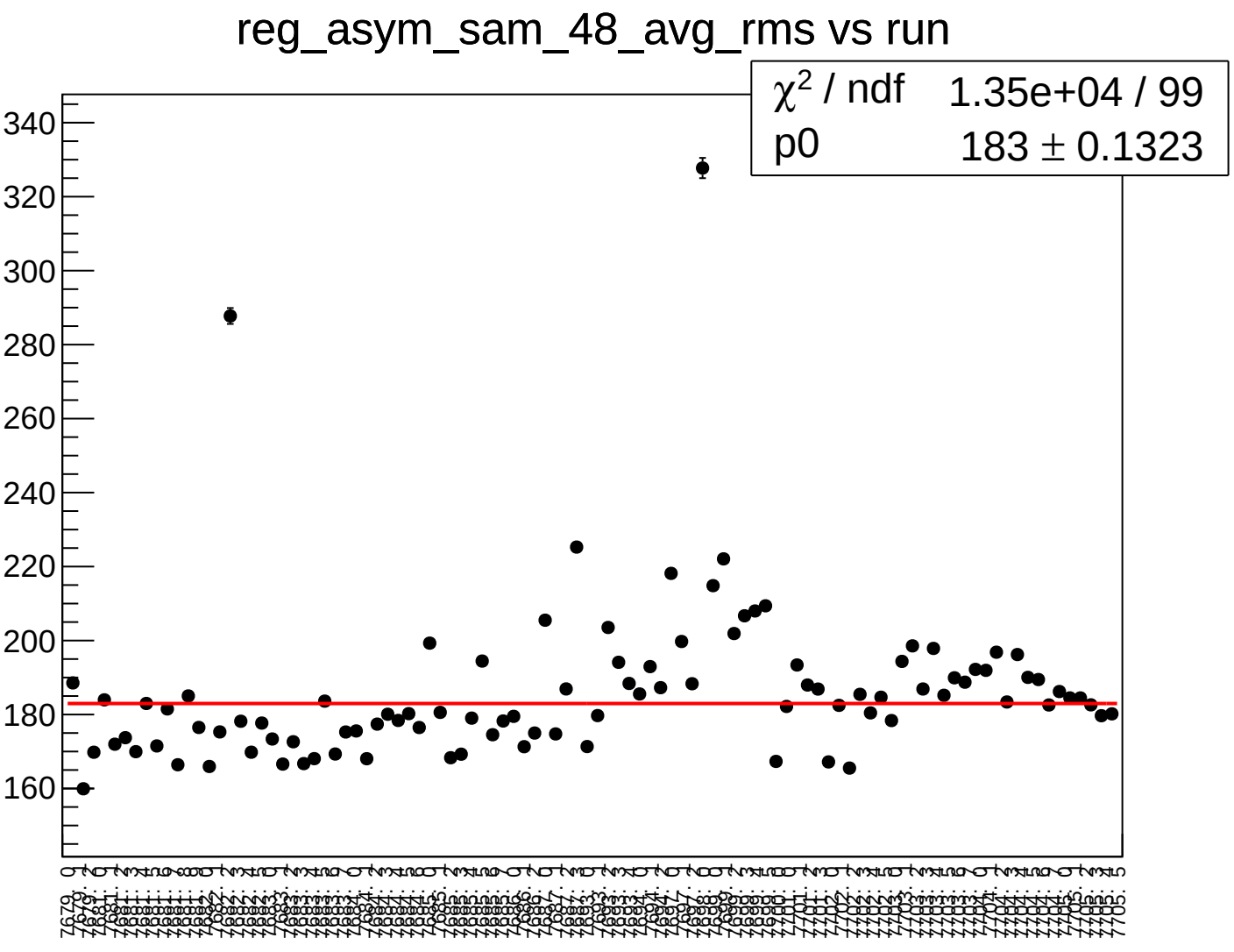

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.404e+05 / 99
p0 44.59 ± 0.03542
450
400
350
300
250
200
150
100
50

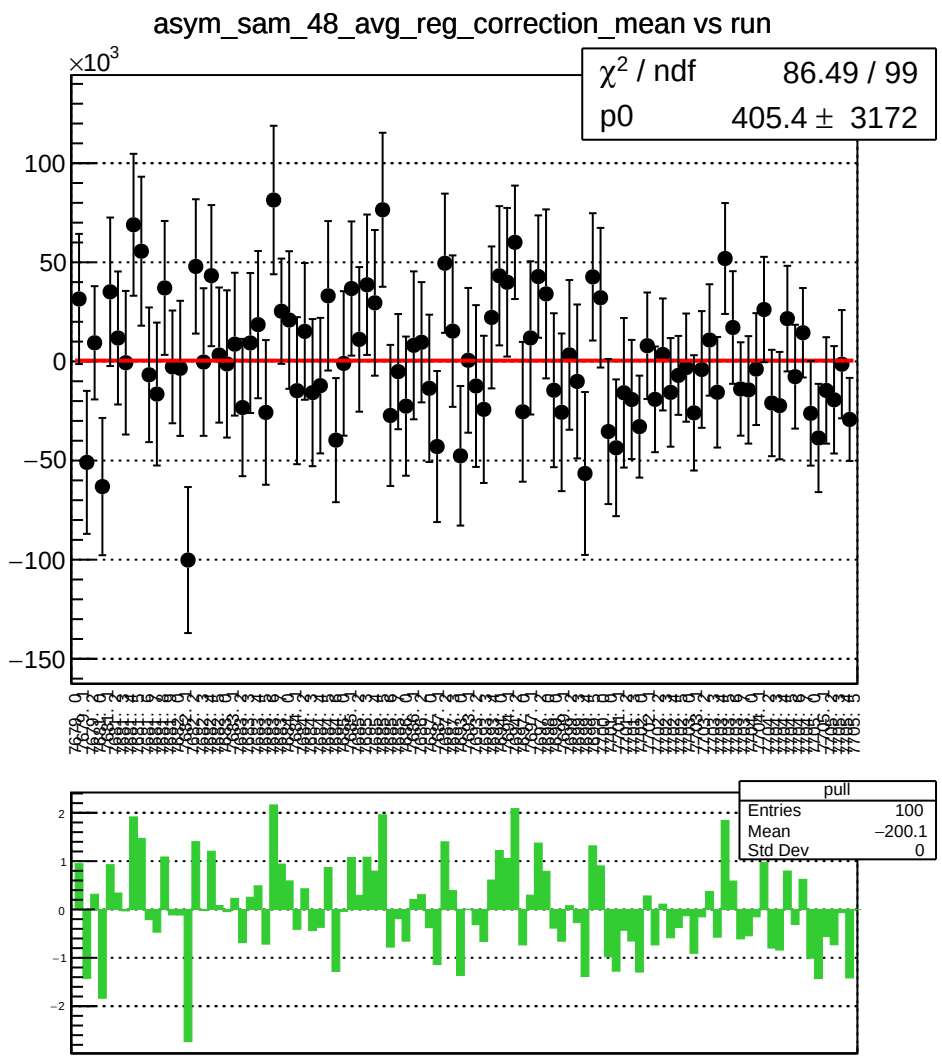

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.54 / 99
p0 3.167e−14 ± 5.903e−14
30
20
10
0
−10
−20
pull
Entries 100
Mean 76.2
Std Dev 0
2
1
0
−1
−2

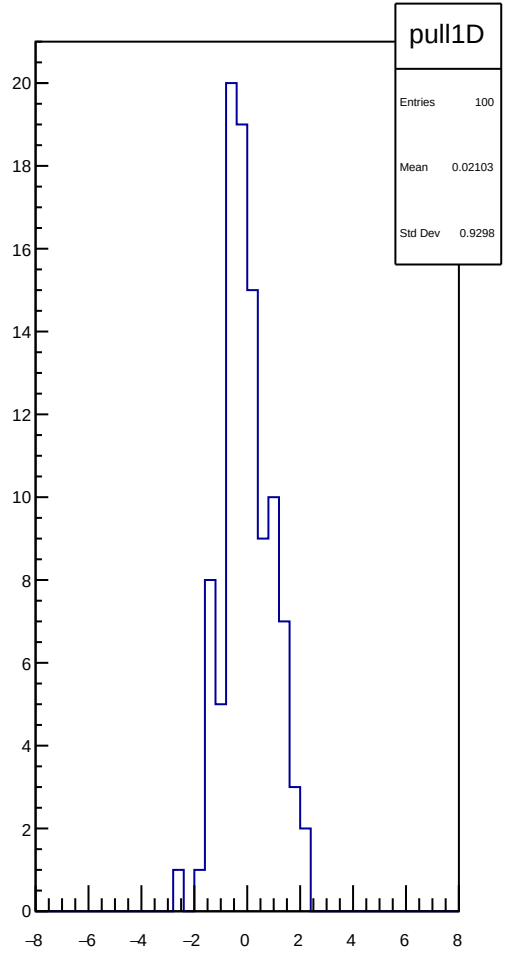

pull1D
Entries 100
Mean 0.05244
Std Dev 0.9709
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

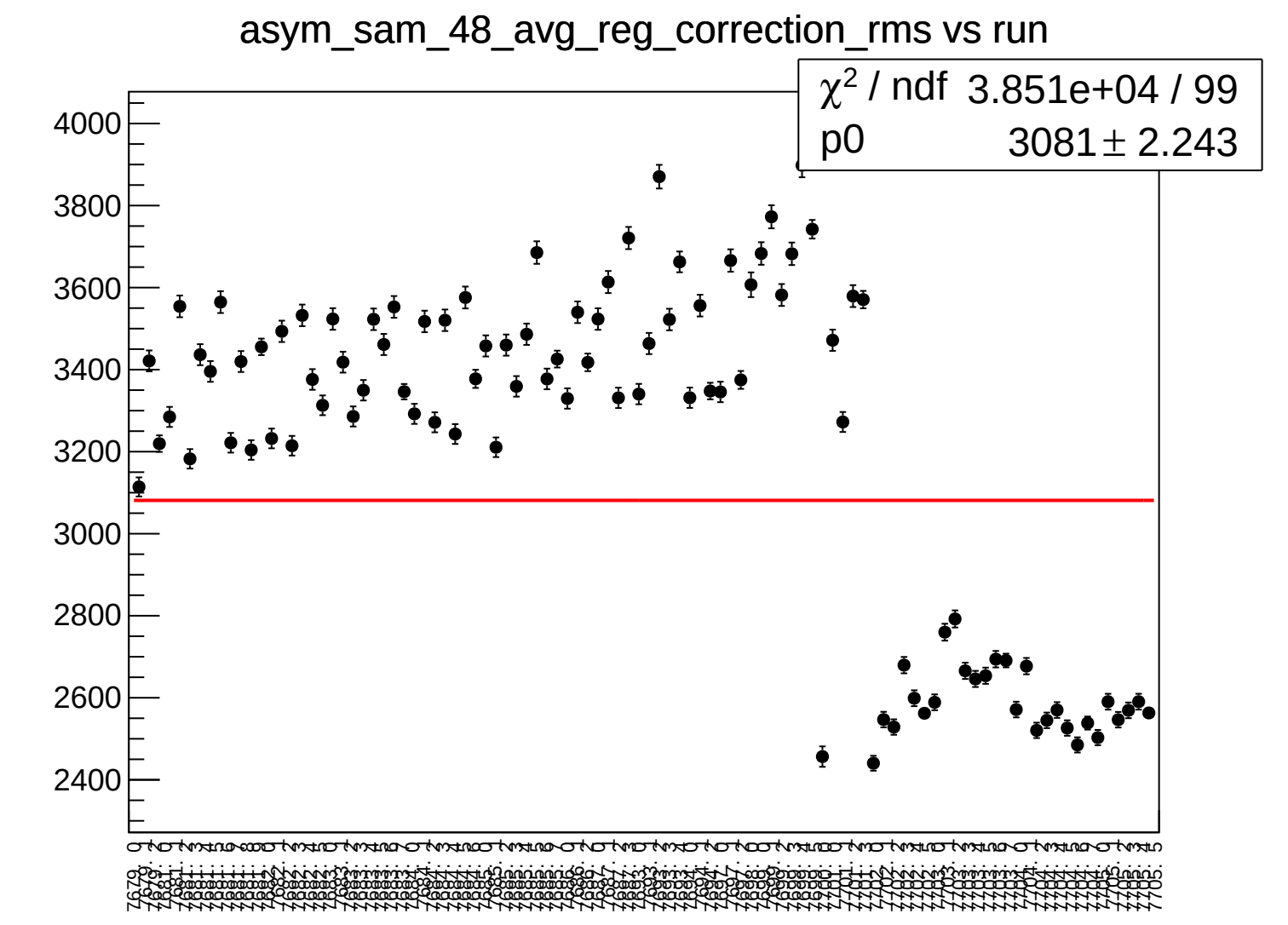

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.239e+05 / 99
p0 4.177e−11 ± 4.174e−14
1
0.8
0.6
0.4
0.2

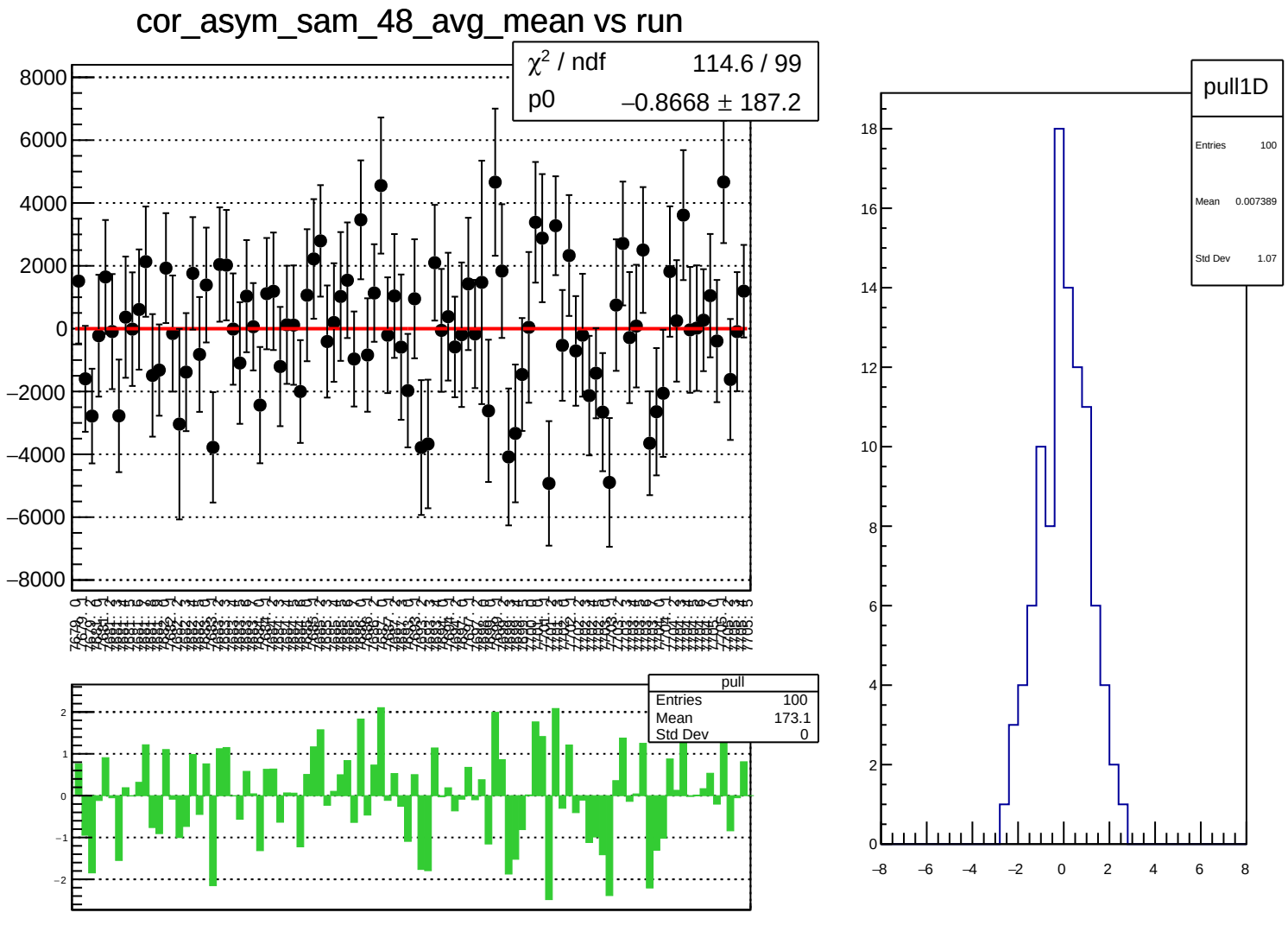

reg_asym_sam_48_avg_mean vs run
χ² / ndf 114.6 / 99
p0 −0.8927 ± 187.2
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 100
Mean 173.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.007391
Std Dev 1.07
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

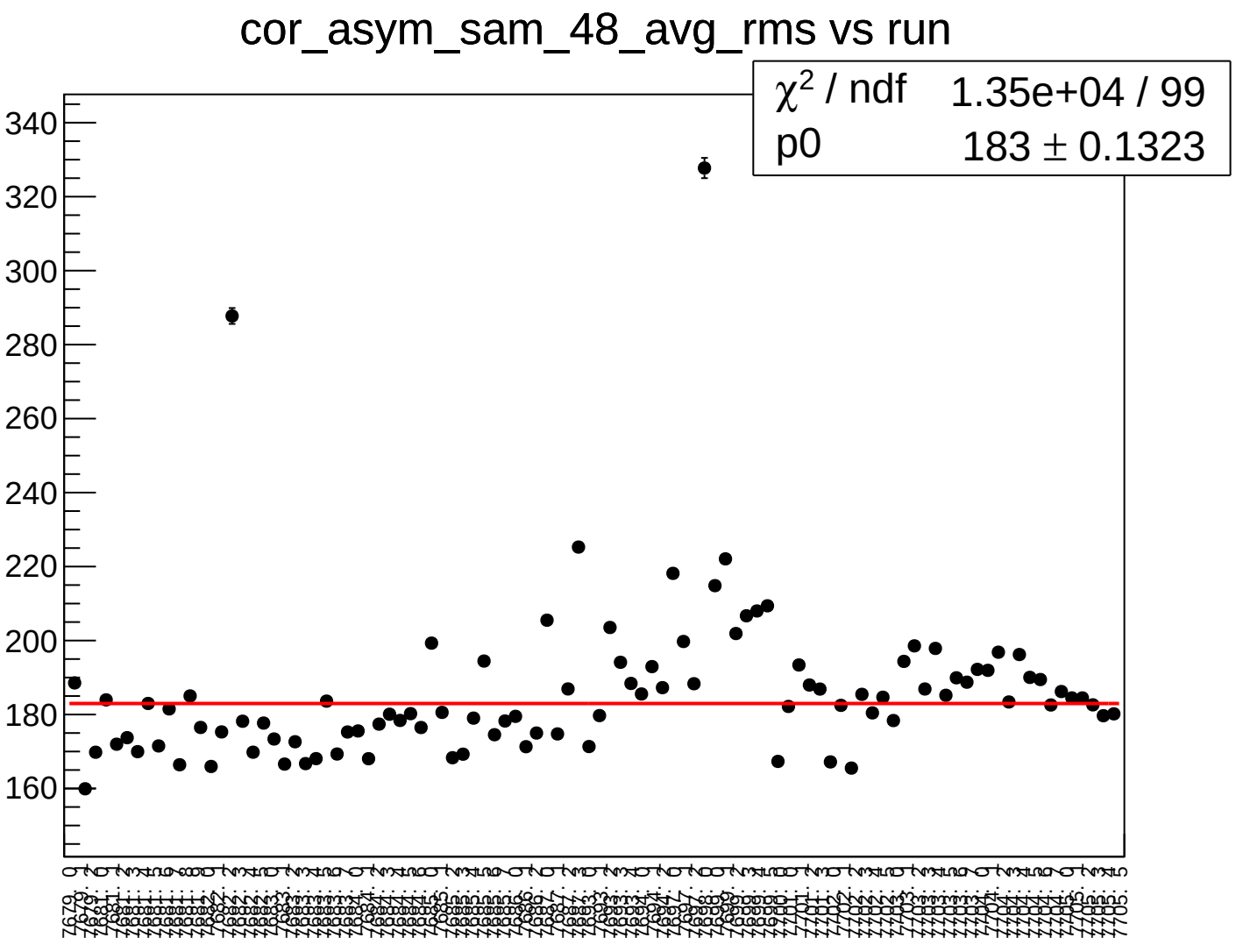

reg_asym_sam_48_avg_rms vs run
χ² / ndf 1.35e+04 / 99
p0 183 ± 0.1323
340
320
300
280
260
240
220
200
180
160

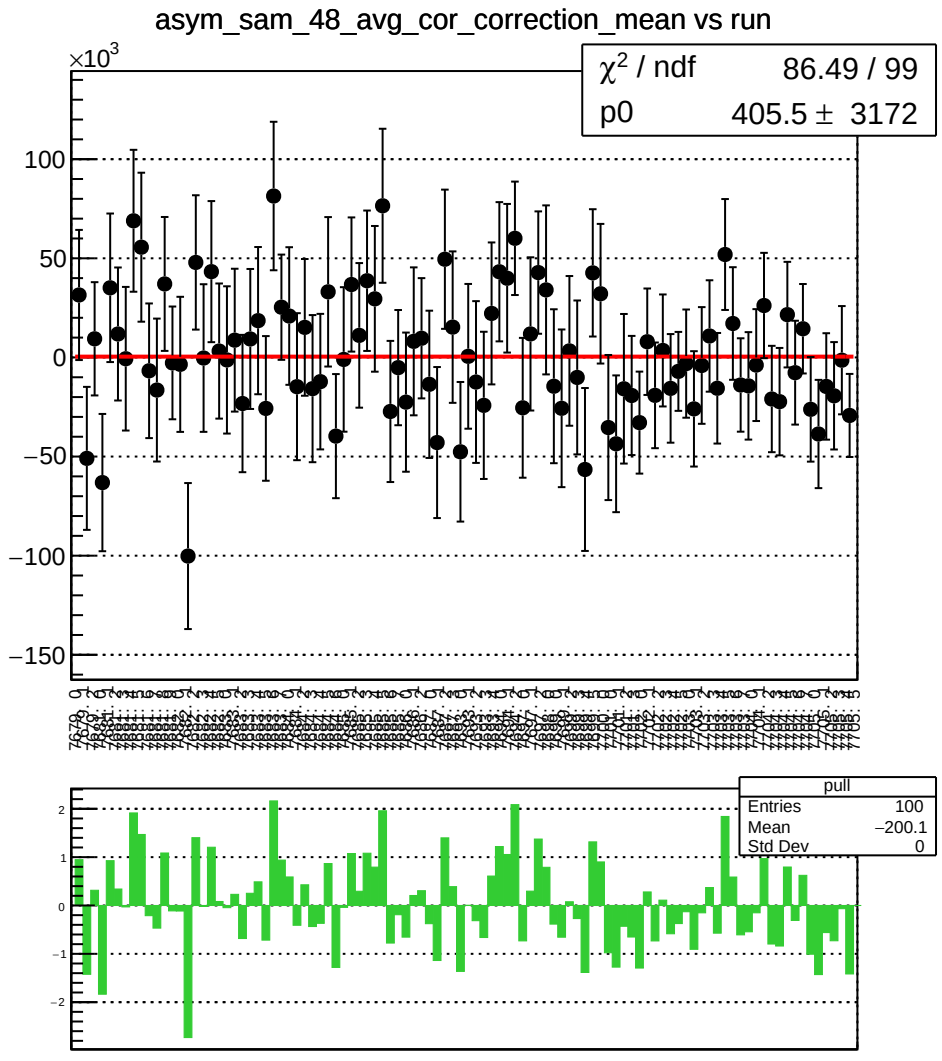

asym_sam_48_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 86.49 / 99
p0 405.4 ± 3172
100
50
0
−50
−100
−150
pull
Entries 100
Mean −200.1
Std Dev 0
2
1
0
−1
−2

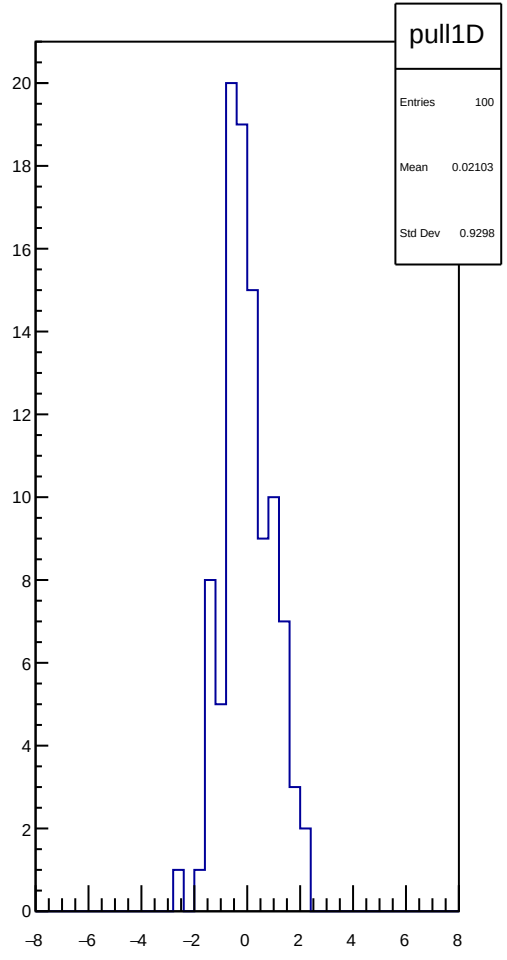

pull1D
Entries 100
Mean 0.02103
Std Dev 0.9298
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

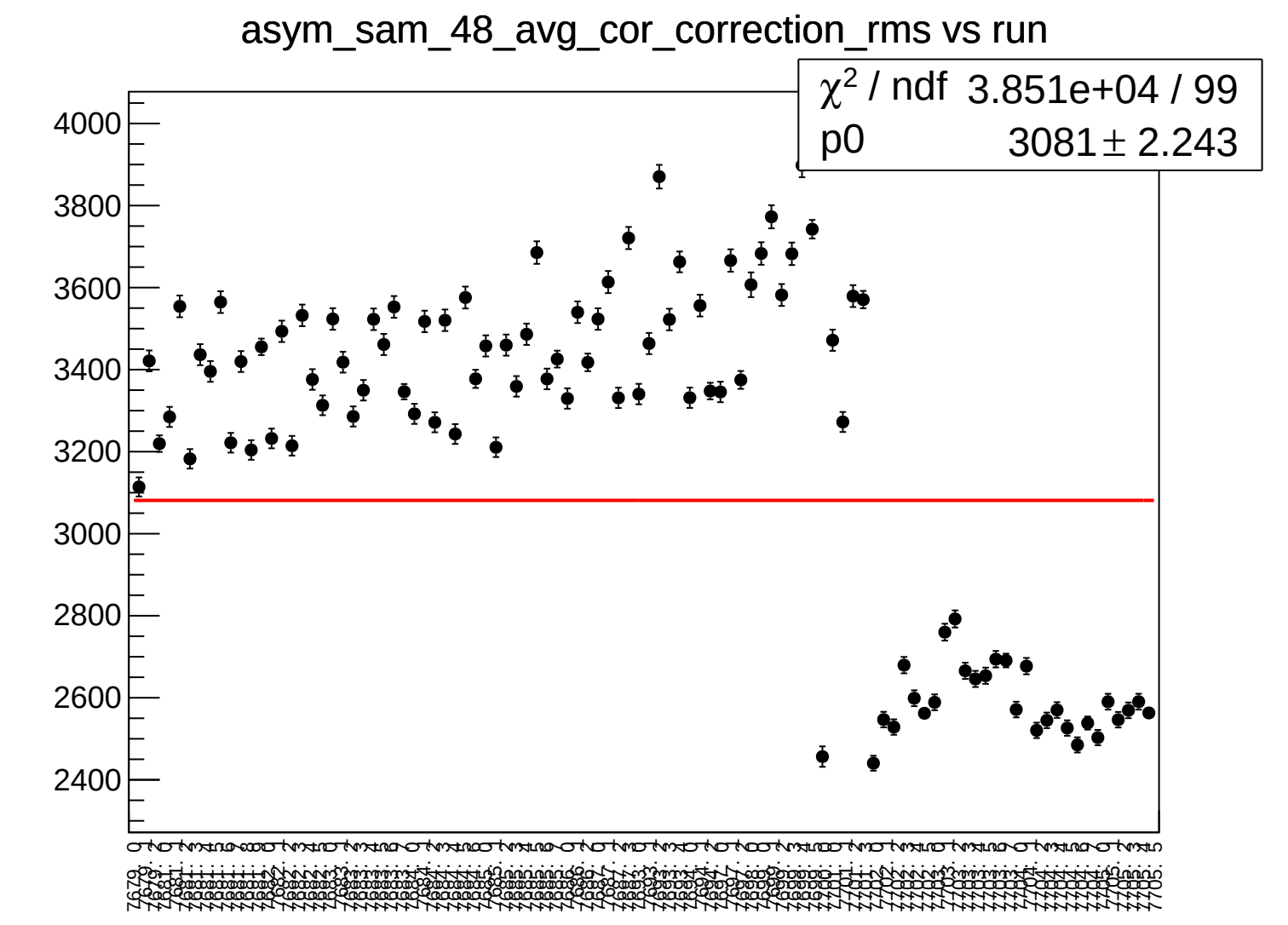

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 3.851e+04 / 99
p0 3081 ± 2.243
4000
3800
3600
3400
3200
3000
2800
2600
2400

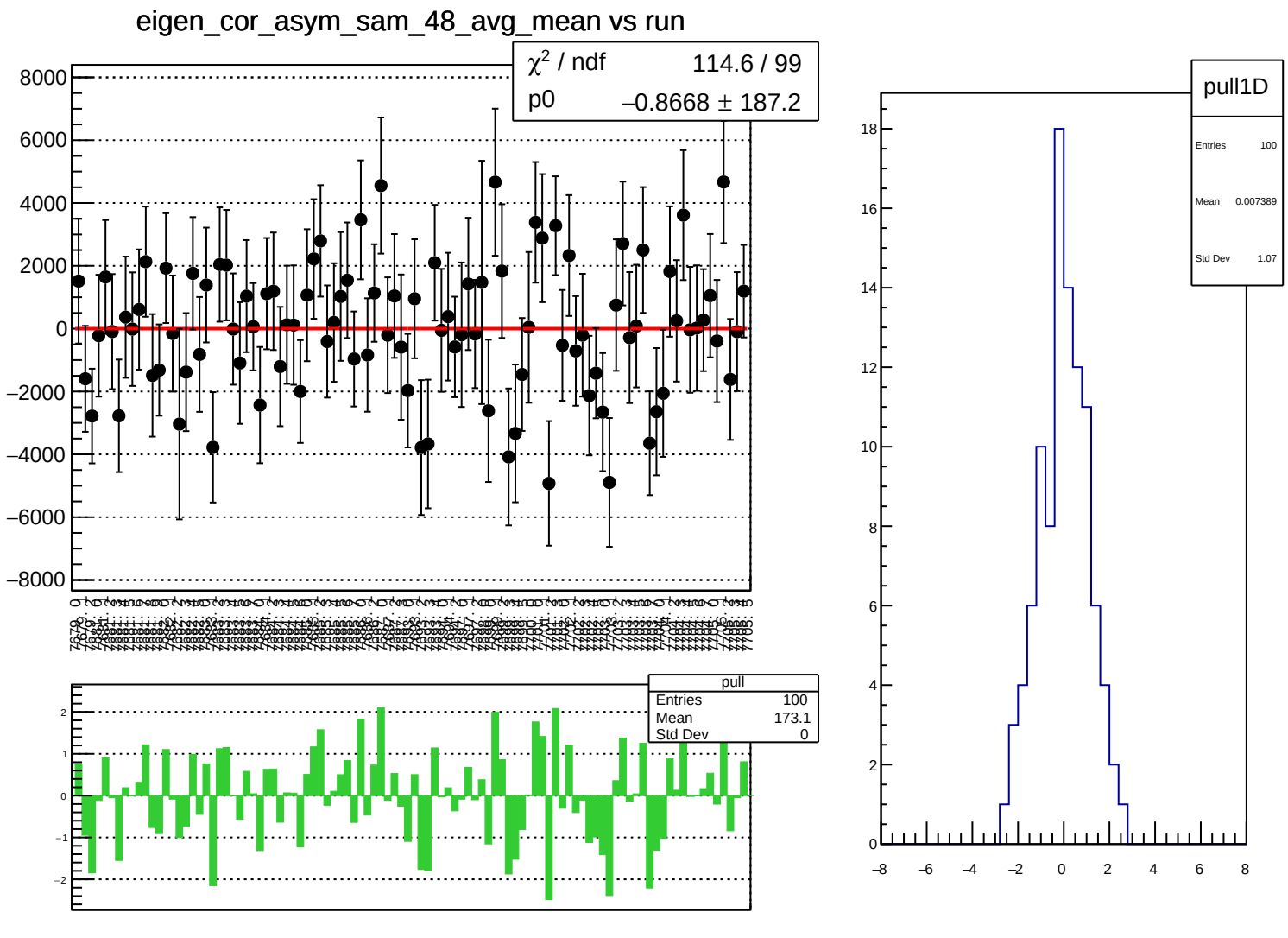

cor_asym_sam_48_avg_mean vs run
χ² / ndf 114.6 / 99
p0 −0.8668 ± 187.2
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 100
Mean 173.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.007389
Std Dev 1.07
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

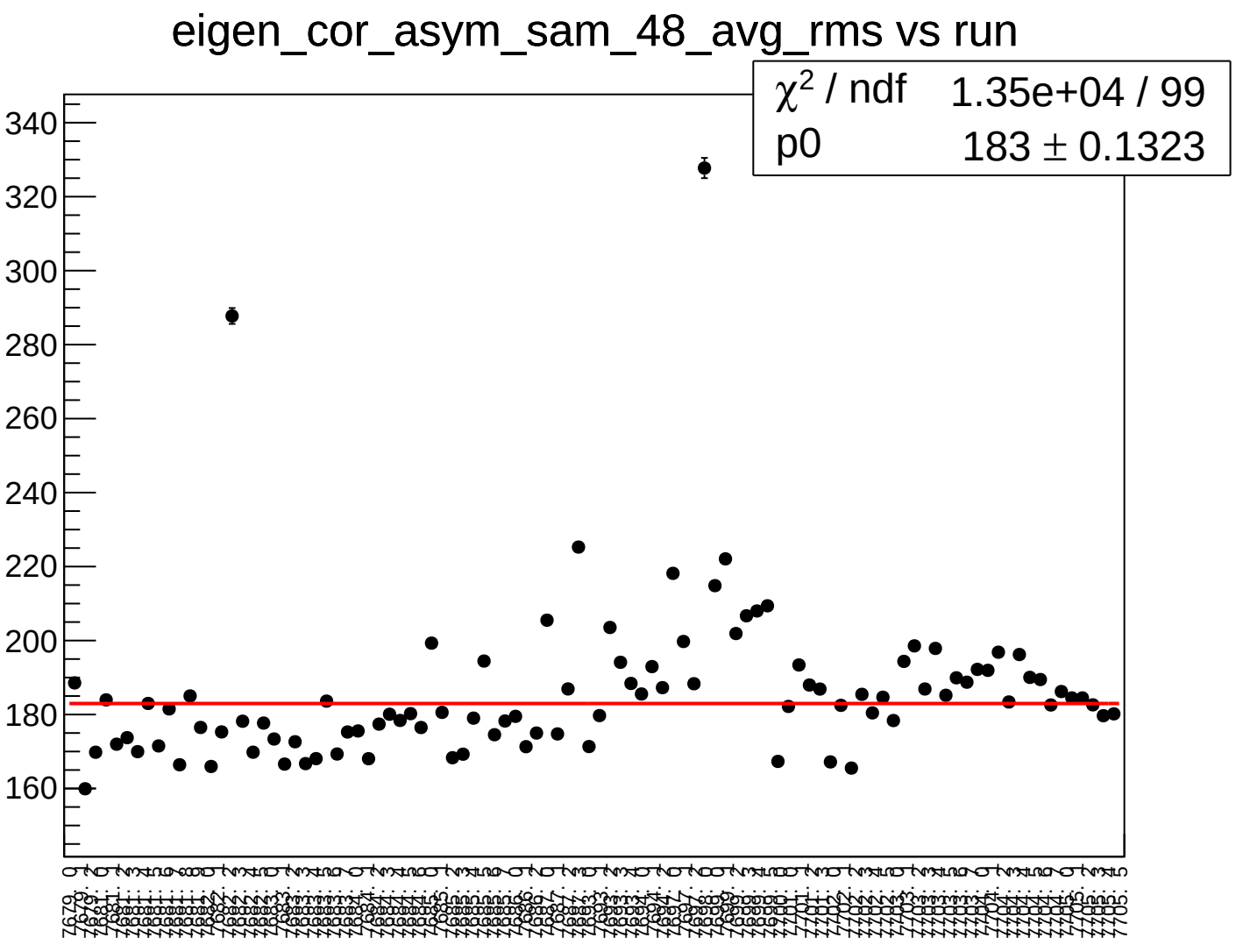

cor_asym_sam_48_avg_rms vs run
χ^2 / ndf 1.35e+04 / 99
p0 183 ± 0.1323
340
320
300
280
260
240
220
200
180
160

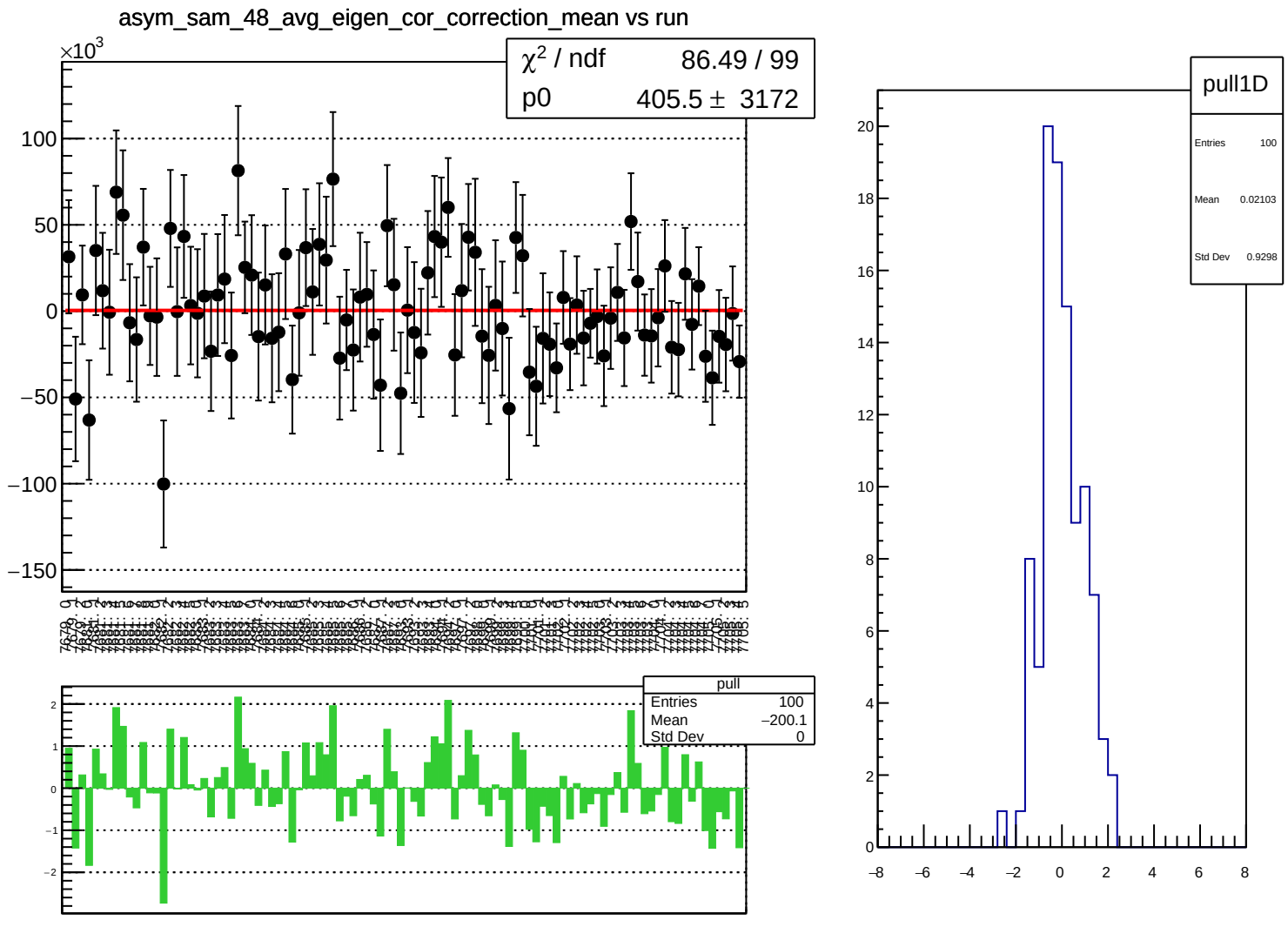

asym_sam_48_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 86.49 / 99
p0 405.5 ± 3172
100
50
0
−50
−100
−150
pull
Entries 100
Mean −200.1
Std Dev 0
2
1
0
−1
−2

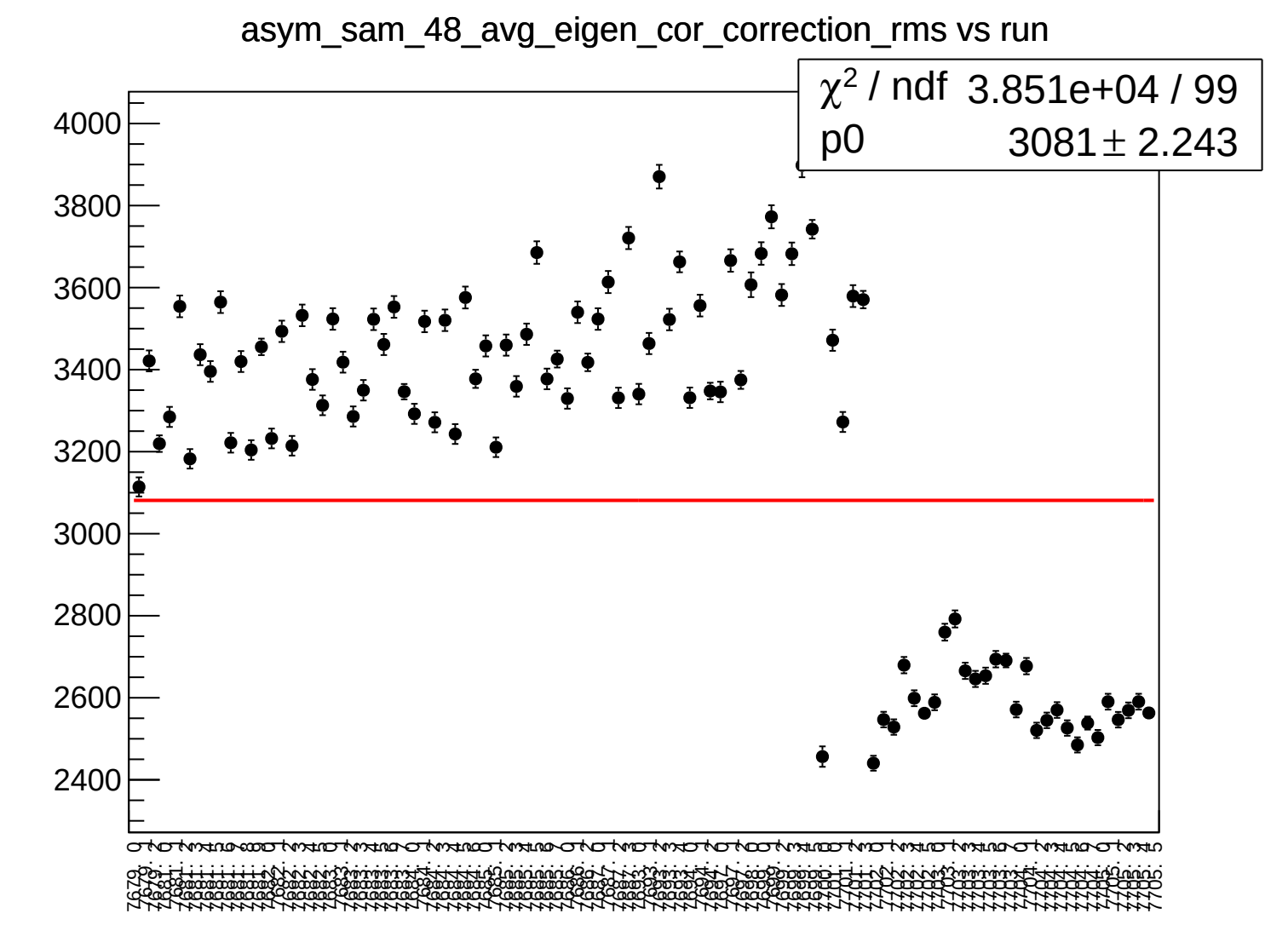

pull1D
Entries 100
Mean 0.02103
Std Dev 0.9298
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

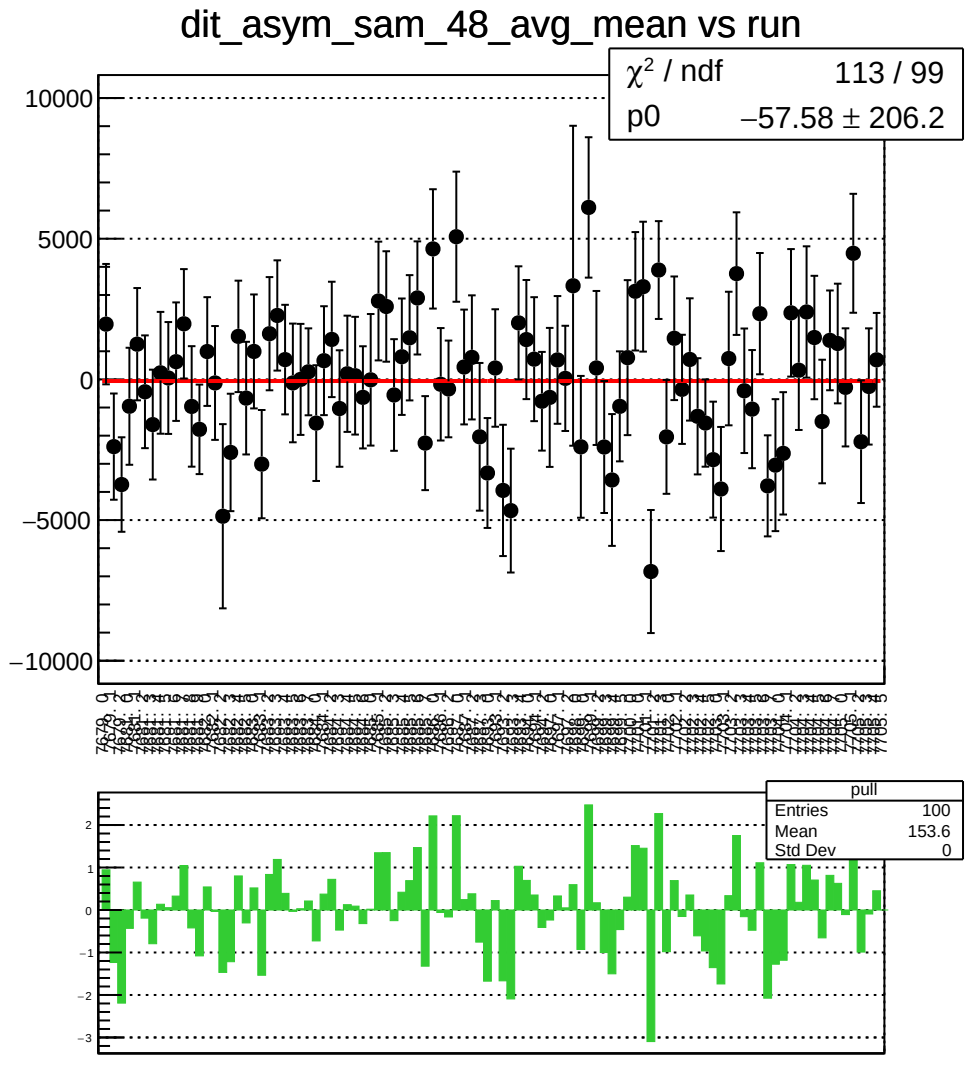

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 3.851e+04 / 99
p0 3081 ± 2.243
4000
3800
3600
3400
3200
3000
2800
2600
2400

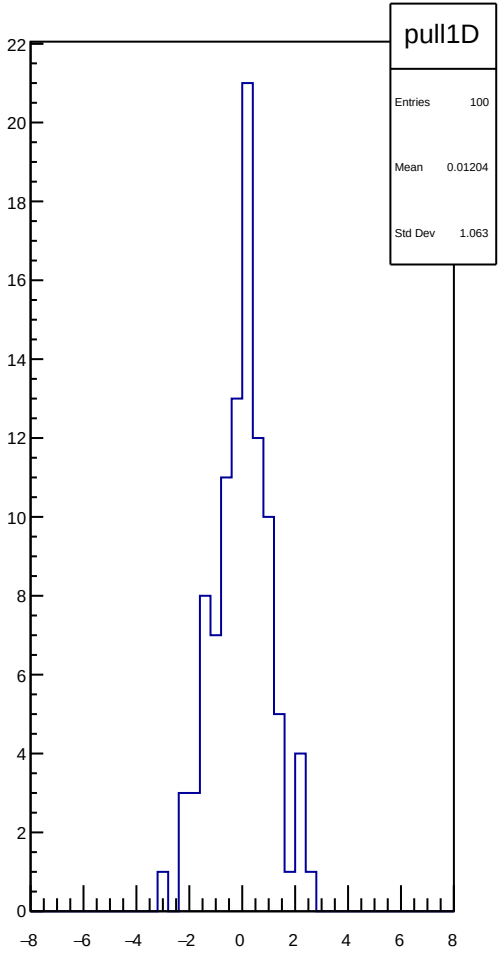

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 114.6 / 99
p0 −0.8668 ± 187.2
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 100
Mean 173.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.007389
Std Dev 1.07
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

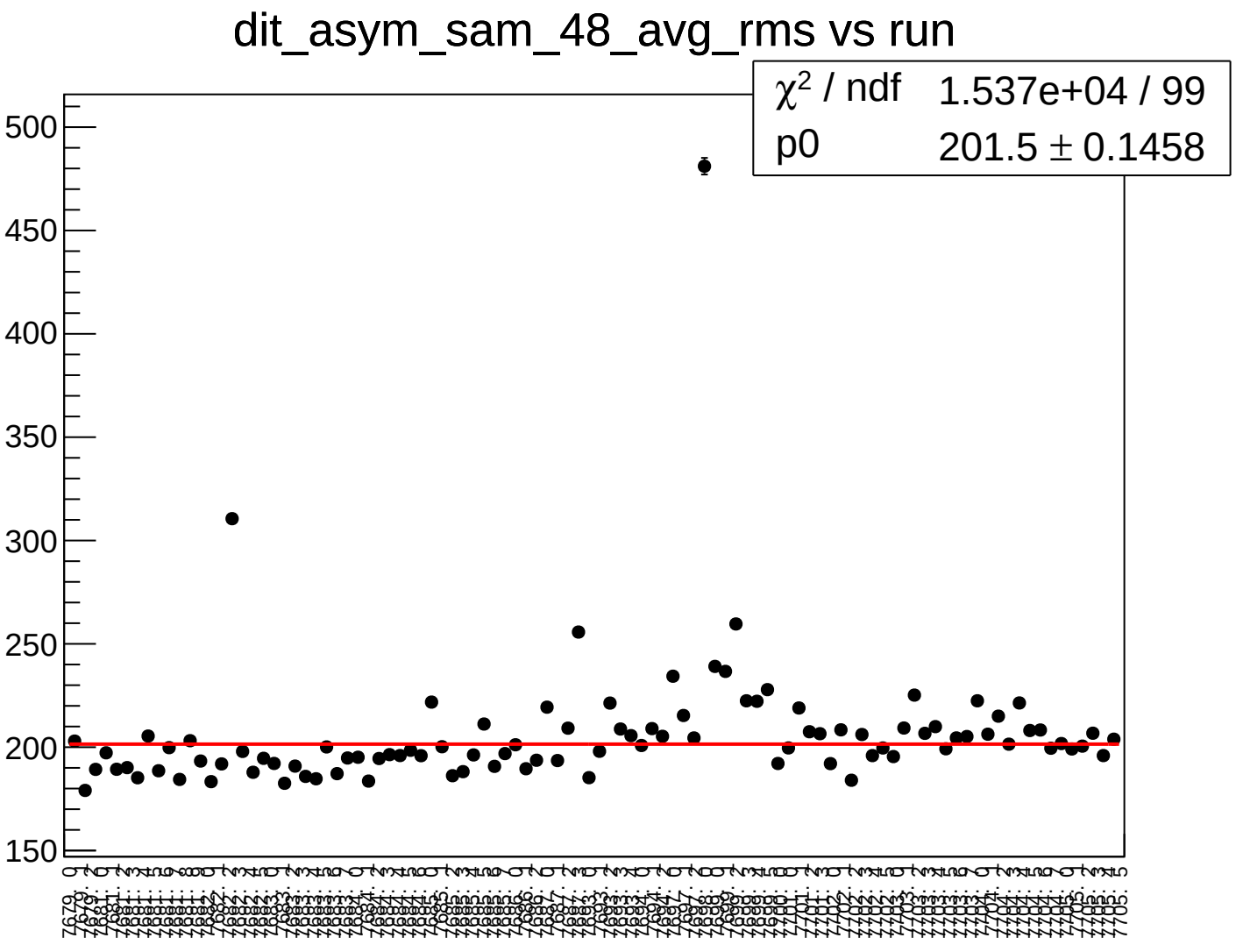

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 1.35e+04 / 99
p0 183 ± 0.1323
340
320
300
280
260
240
220
200
180
160

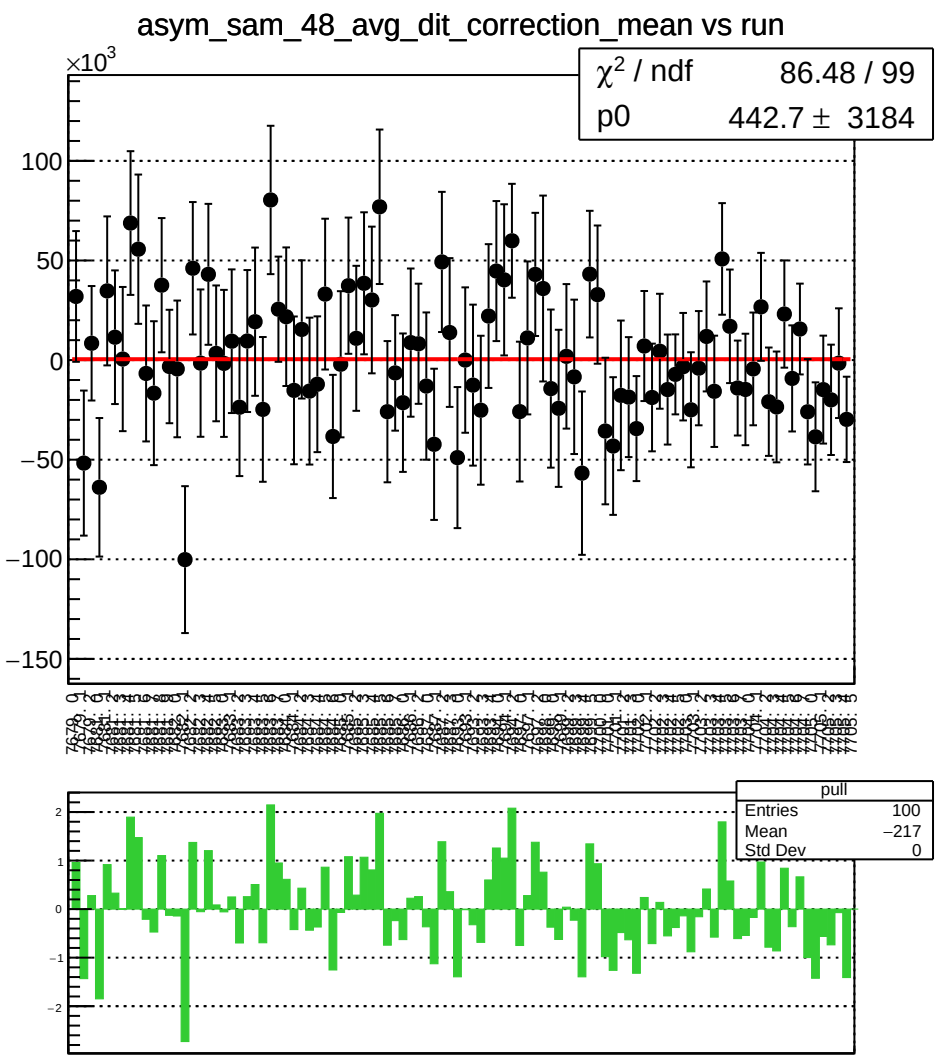

asym_sam_48_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 86.49 / 99
p0 405.5 ± 3172
100
50
0
−50
−100
−150
pull
Entries 100
Mean −200.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.02103
Std Dev 0.9298
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

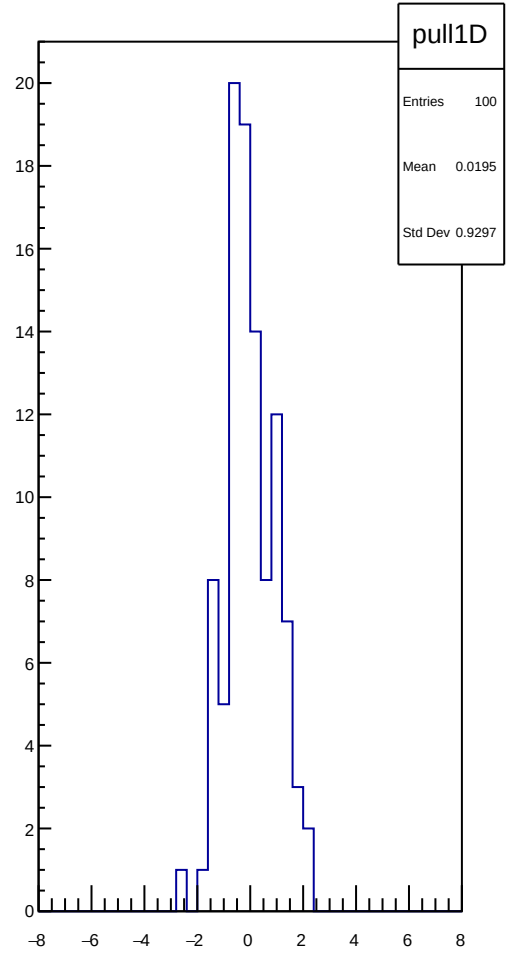

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.851e+04 / 99
p0 3081 ± 2.243
4000
3800
3600
3400
3200
3000
2800
2600
2400

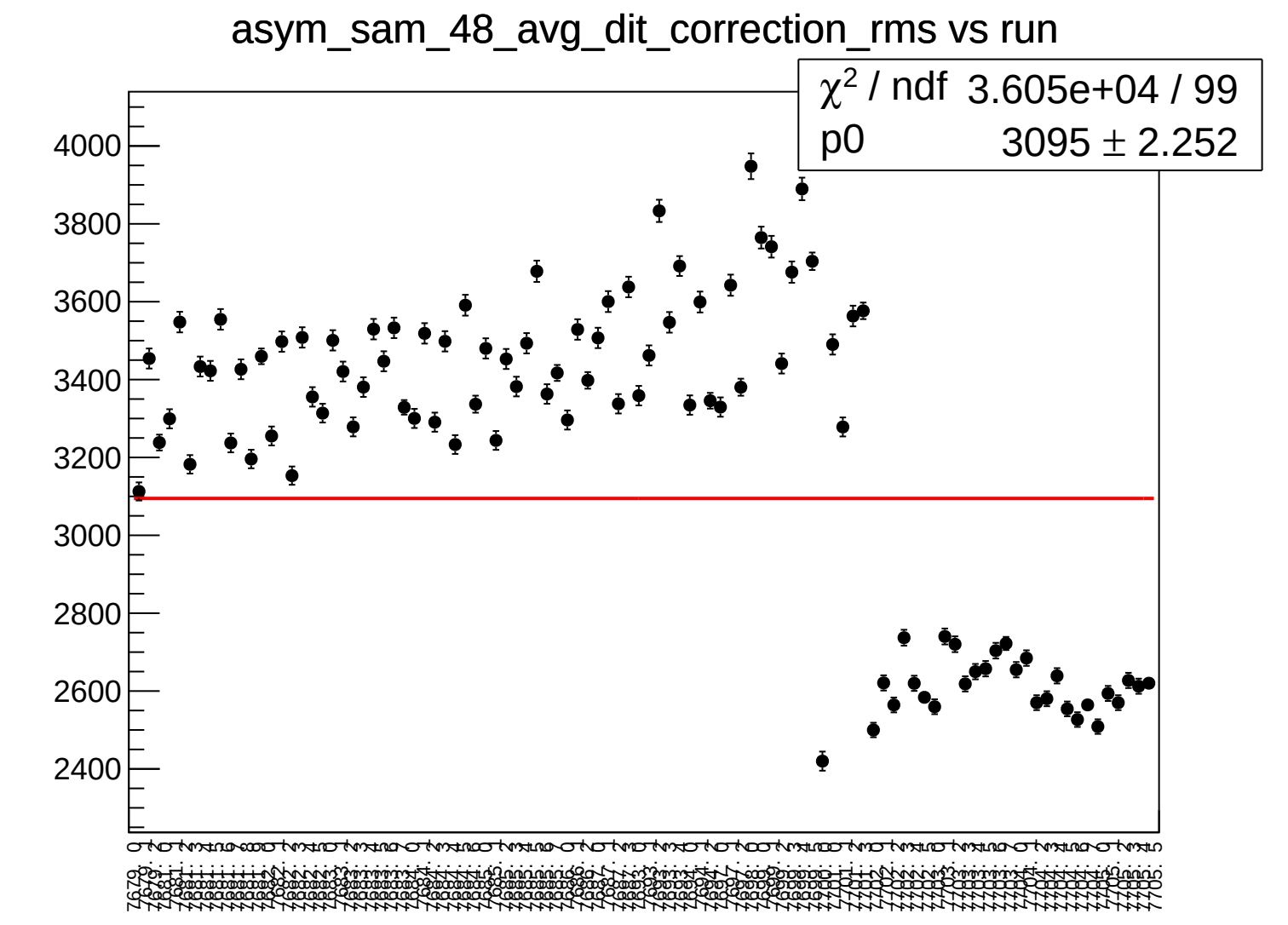

dit_asym_sam_48_avg_mean vs run
χ² / ndf 113 / 99
p0 −57.58 ± 206.2
10000
5000
0
−5000
−10000
pull
Entries 100
Mean 153.6
Std Dev 0
2
1
0
−1
−2
−3

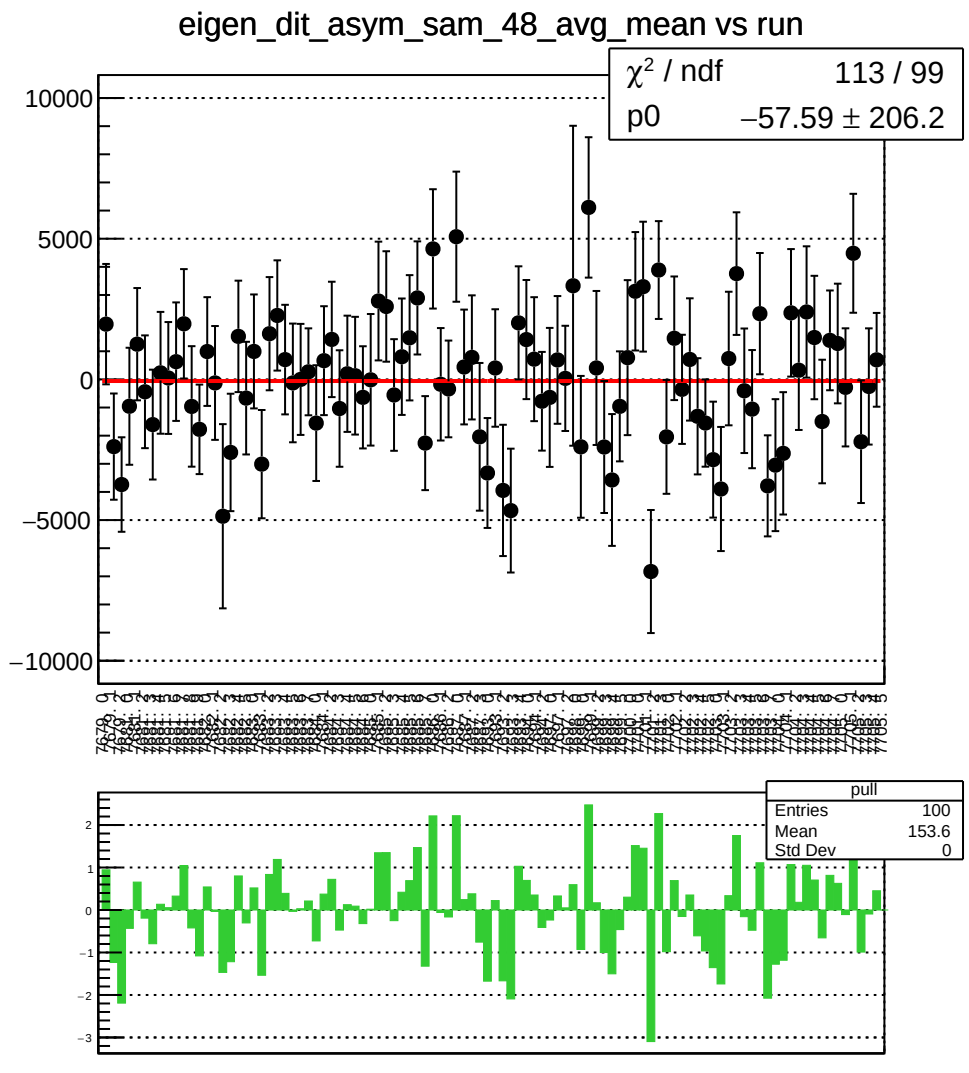

pull1D
Entries 100
Mean 0.01204
Std Dev 1.063
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

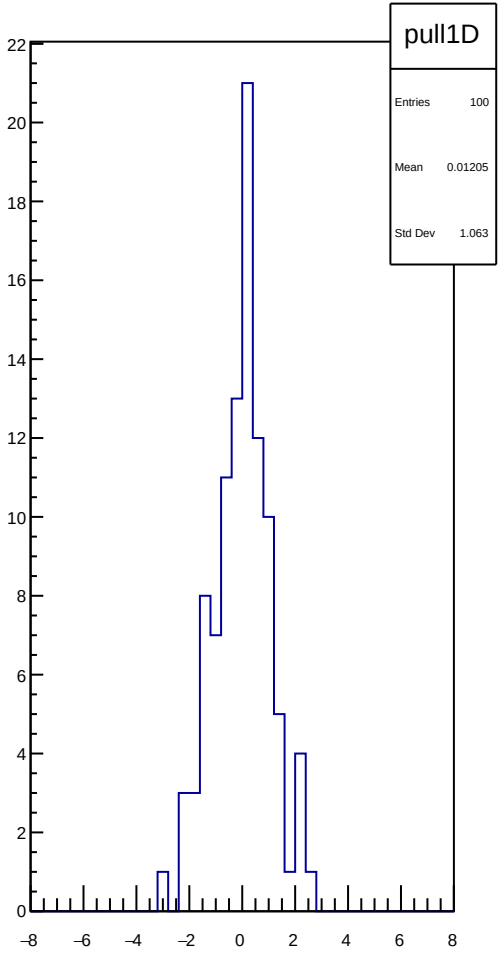

dit_asym_sam_48_avg_rms vs run
χ² / ndf 1.537e+04 / 99
p0 201.5 ± 0.1458
500
450
400
350
300
250
200
150

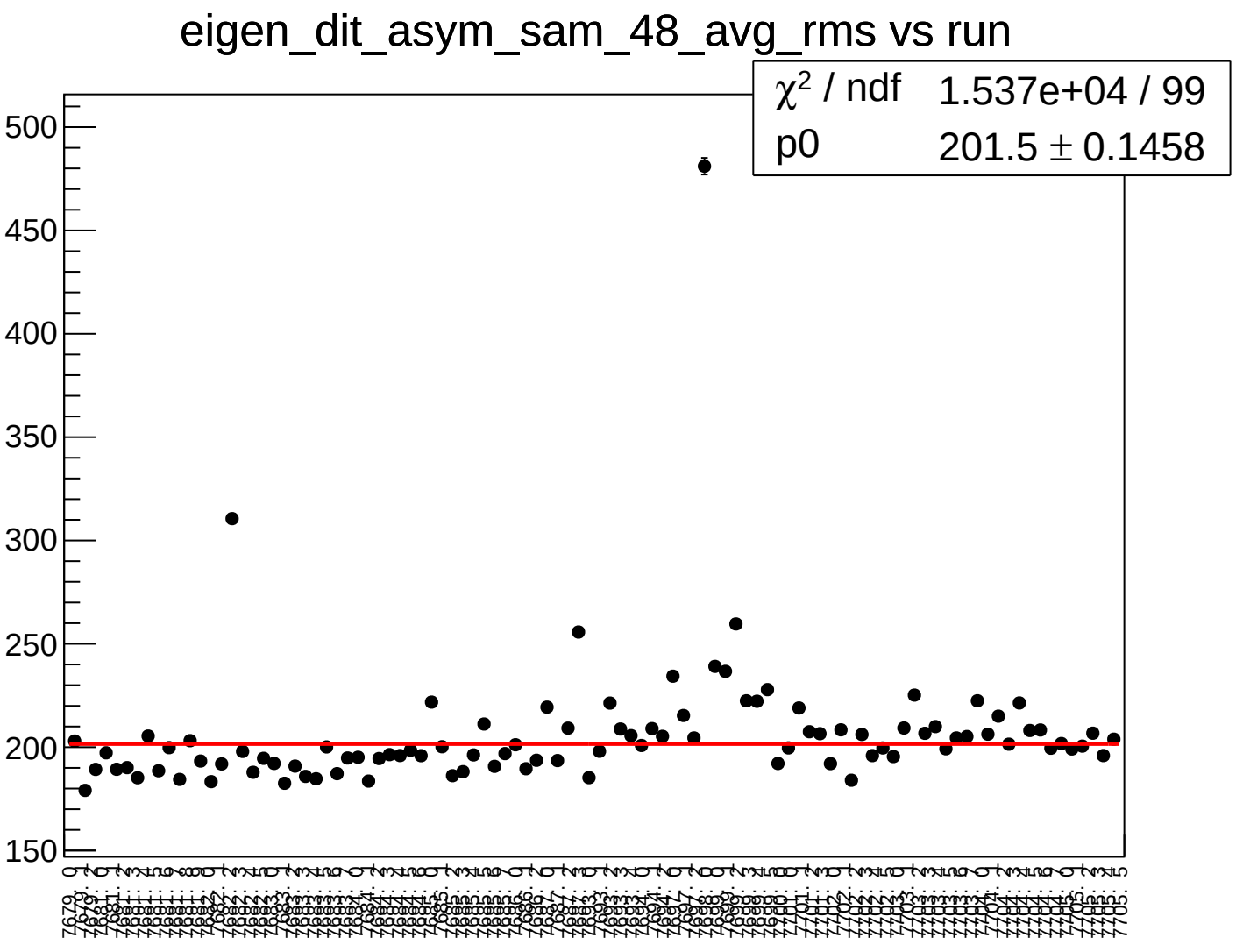

asym_sam_48_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 86.48 / 99
p0 442.7 ± 3184
100
50
0
−50
−100
−150
pull
Entries 100
Mean −217
Std Dev 0
2
1
0
−1
−2

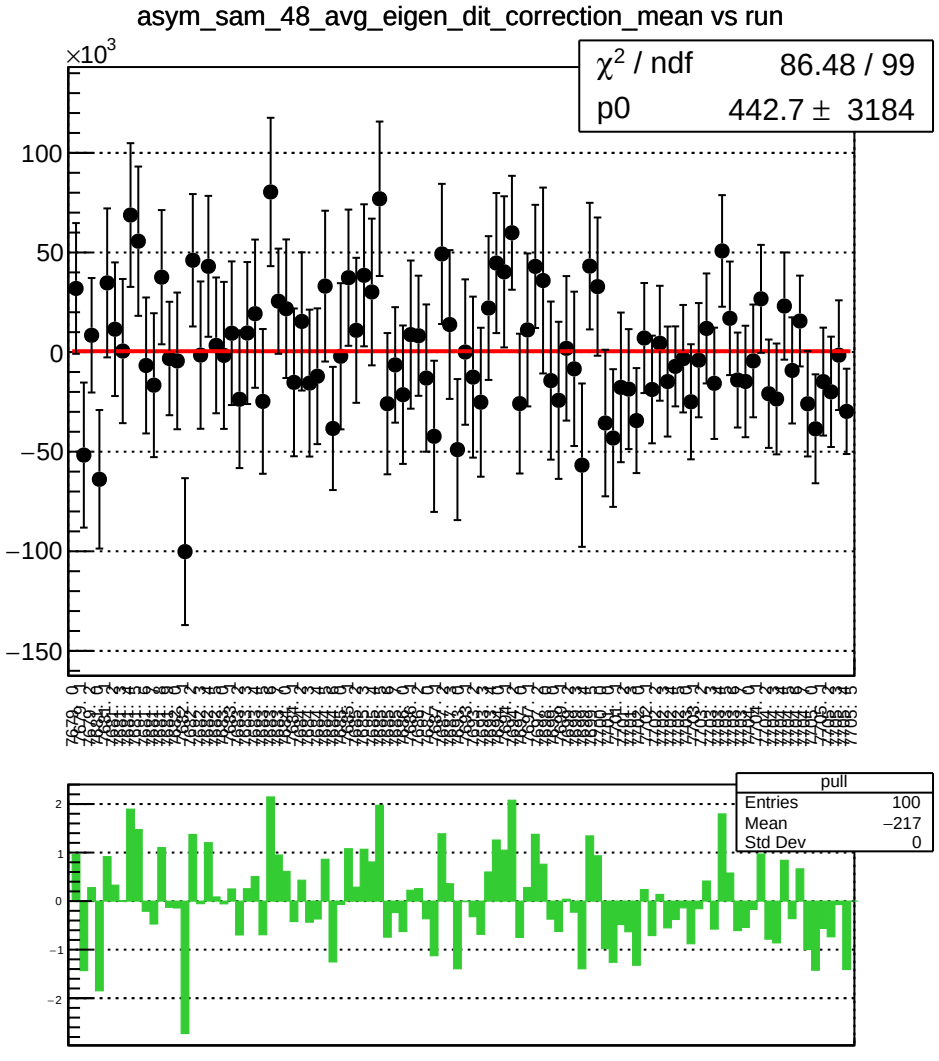

pull1D
Entries 100
Mean 0.0195
Std Dev 0.9297
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

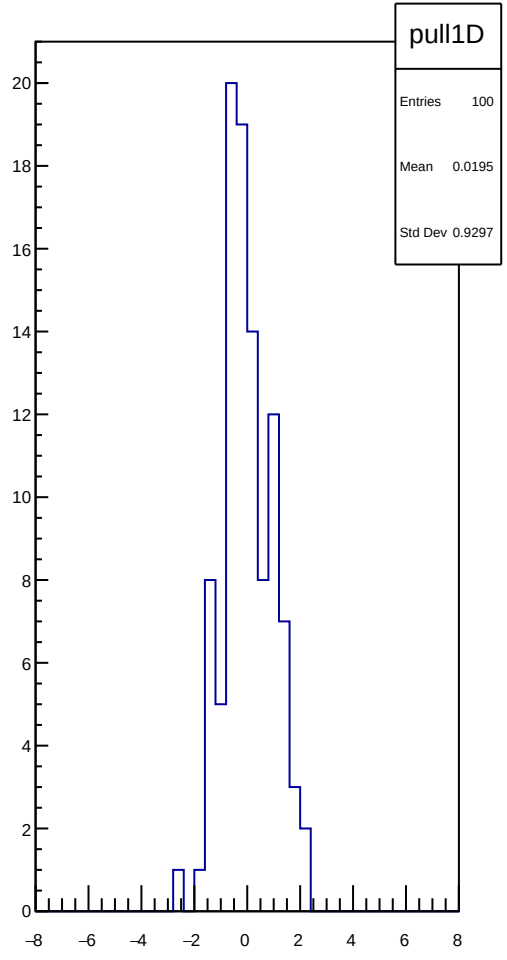

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 3.605e+04 / 99
p0 3095 ± 2.252
4000
3800
3600
3400
3200
3000
2800
2600
2400

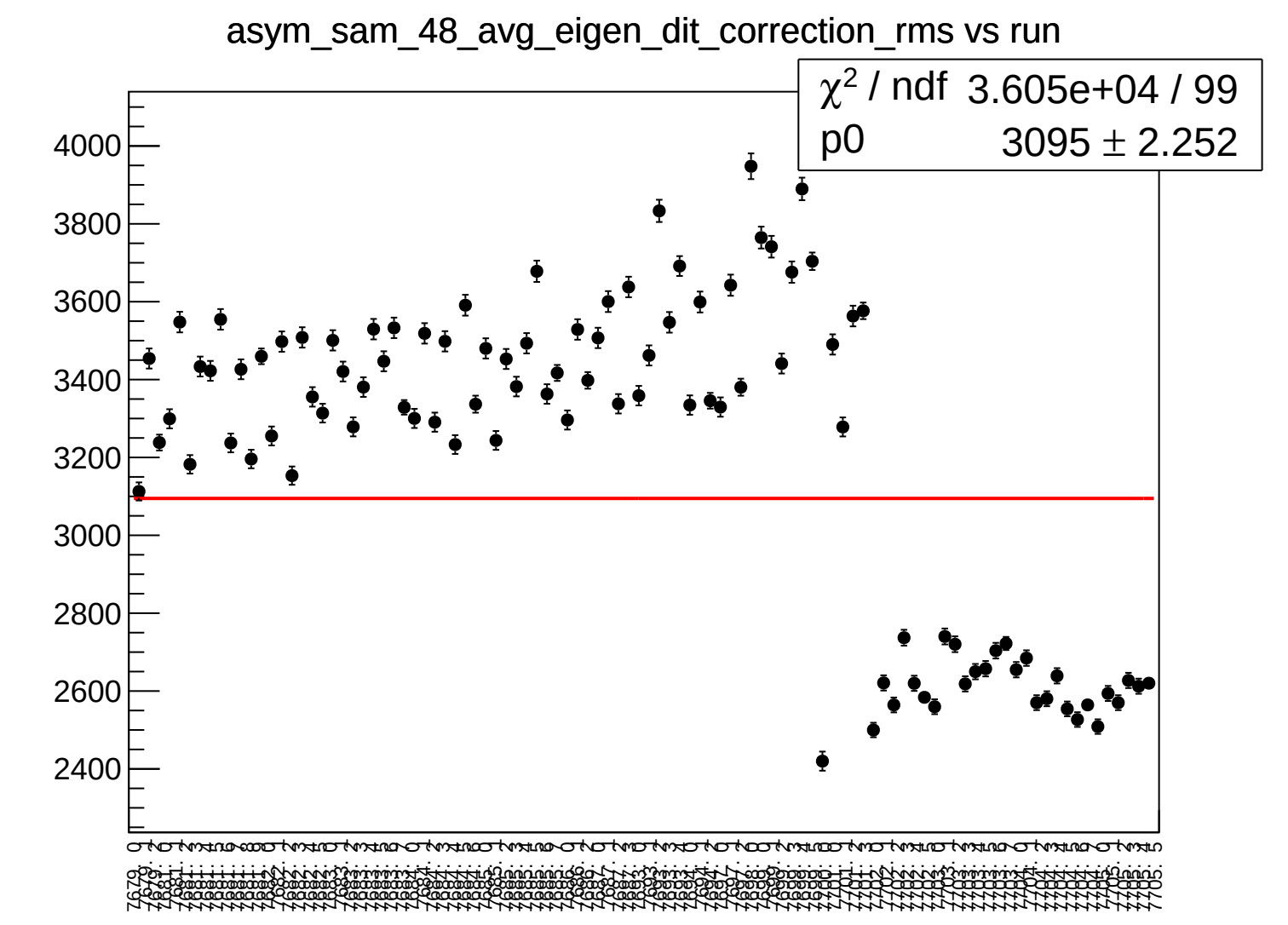

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 113 / 99
p0 −57.59 ± 206.2
10000
5000
0
−5000
−10000
pull
Entries 100
Mean 153.6
Std Dev 0
2
1
0
−1
−2
−3

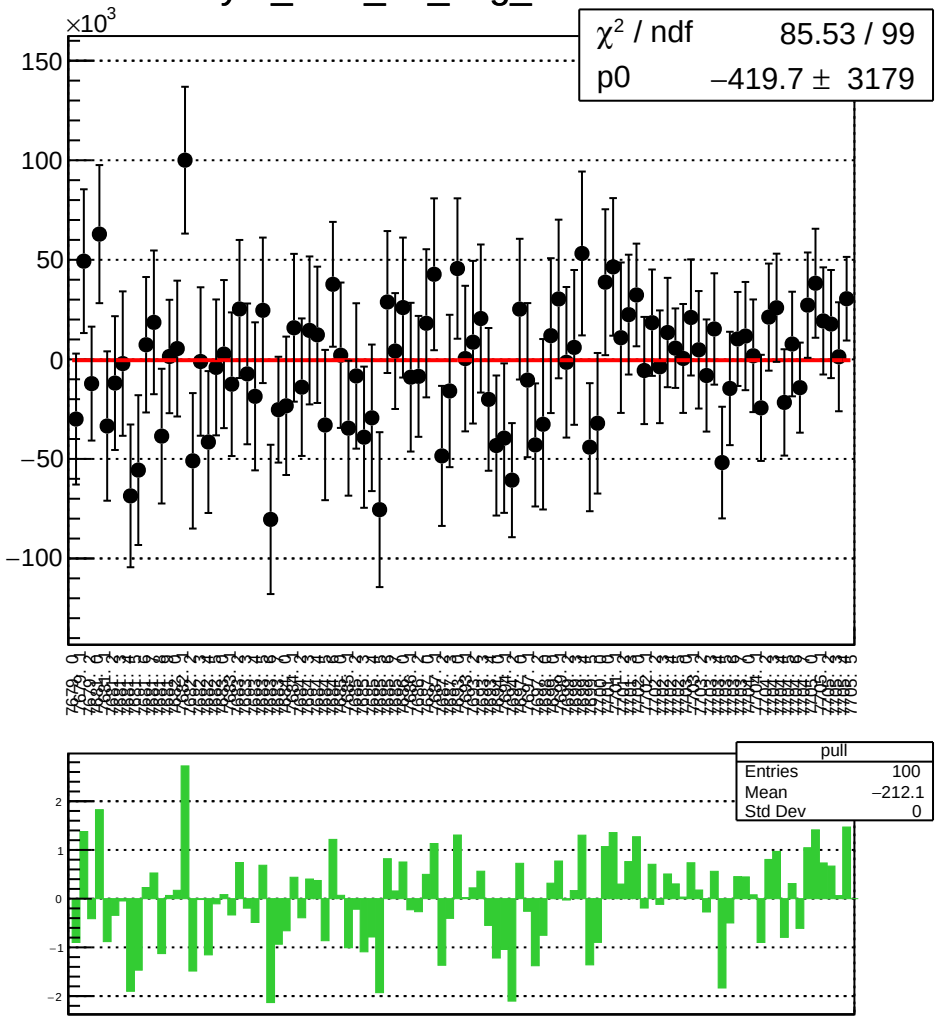

pull1D
Entries 100
Mean 0.01205
Std Dev 1.063
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

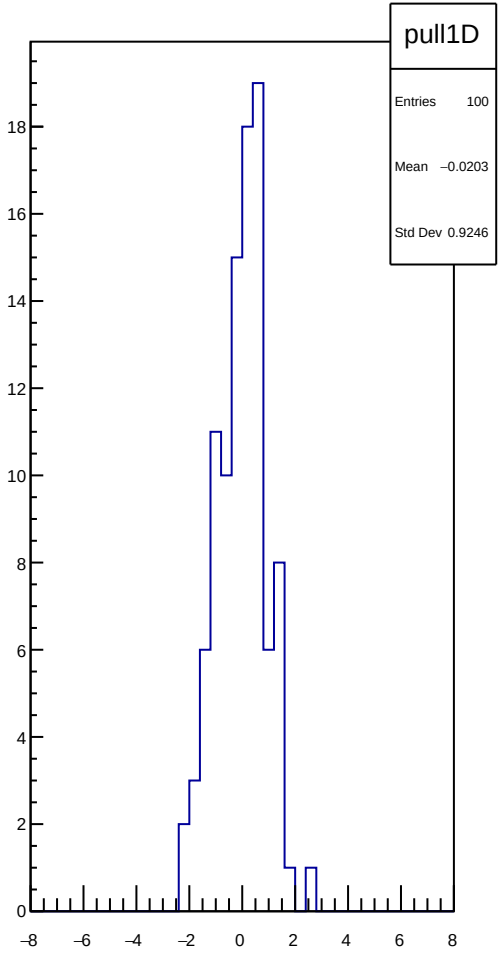

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 1.537e+04 / 99
p0 201.5 ± 0.1458
500
450
400
350
300
250
200
150

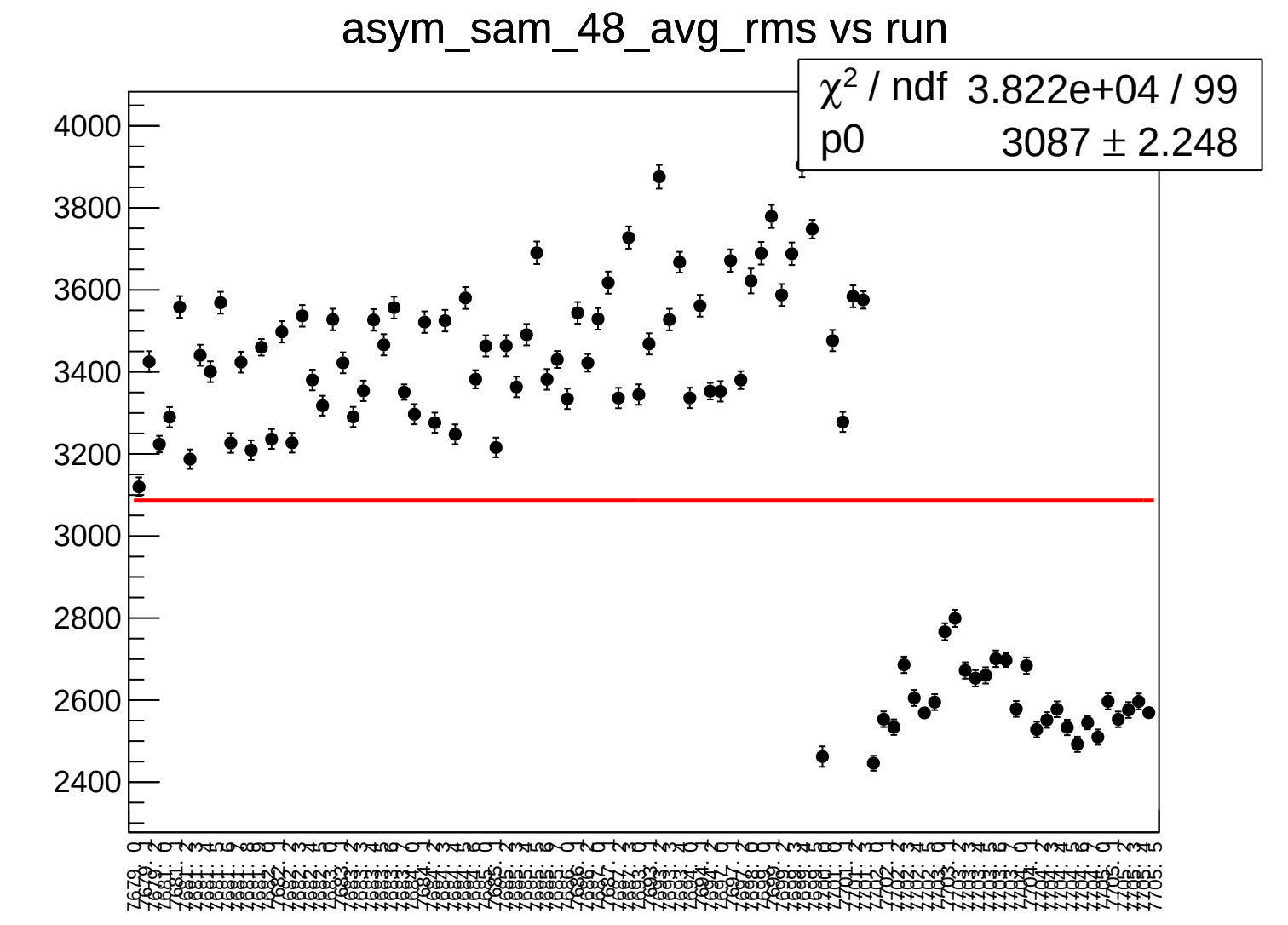

asym_sam_48_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 86.48 / 99
p0 442.7 ± 3184
100
50
0
−50
−100
−150
pull
Entries 100
Mean −217
Std Dev 0
2
1
0
−1
−2

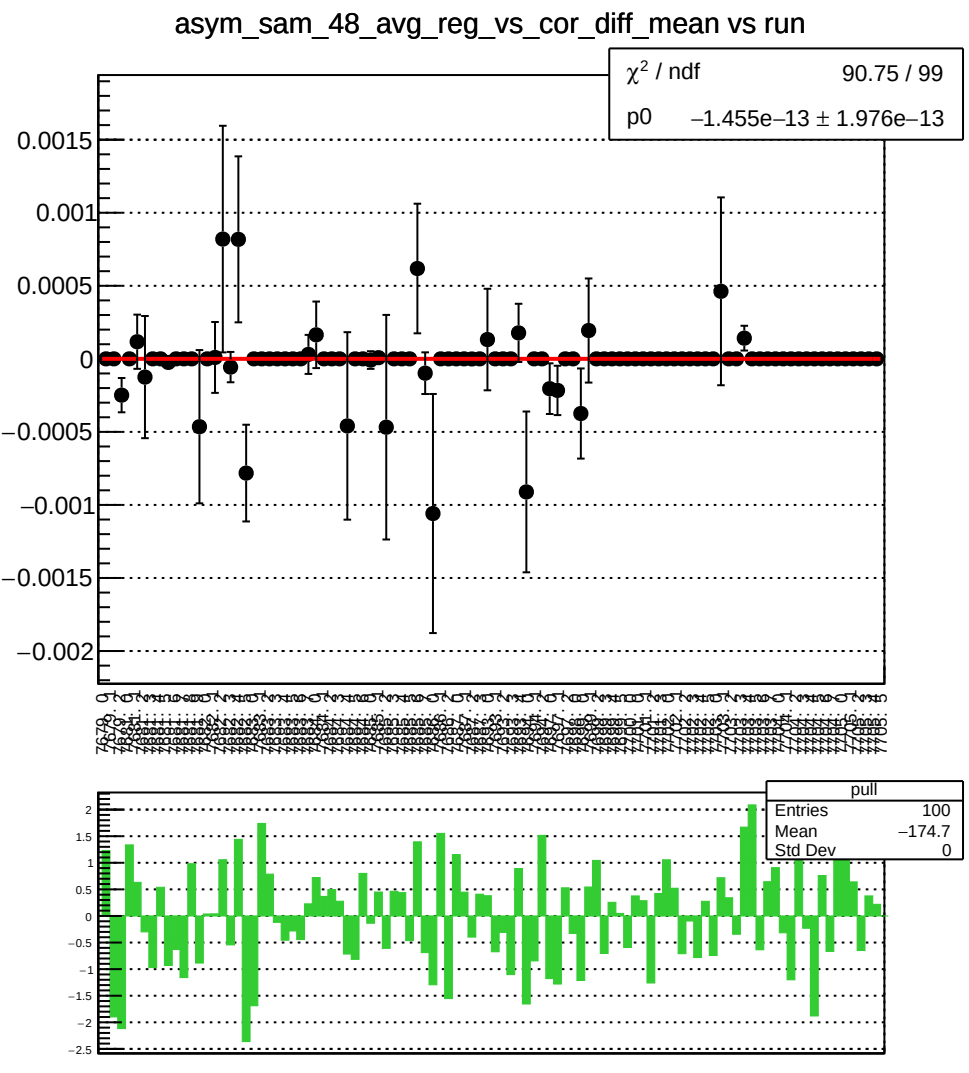

pull1D
Entries 100
Mean 0.0195
Std Dev 0.9297
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

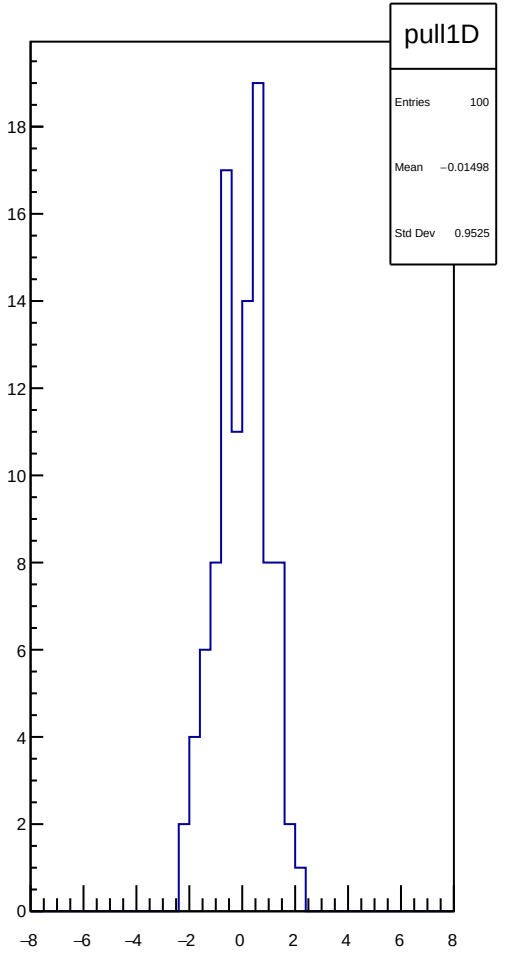

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.605e+04 / 99
p0 3095 ± 2.252
4000
3800
3600
3400
3200
3000
2800
2600
2400

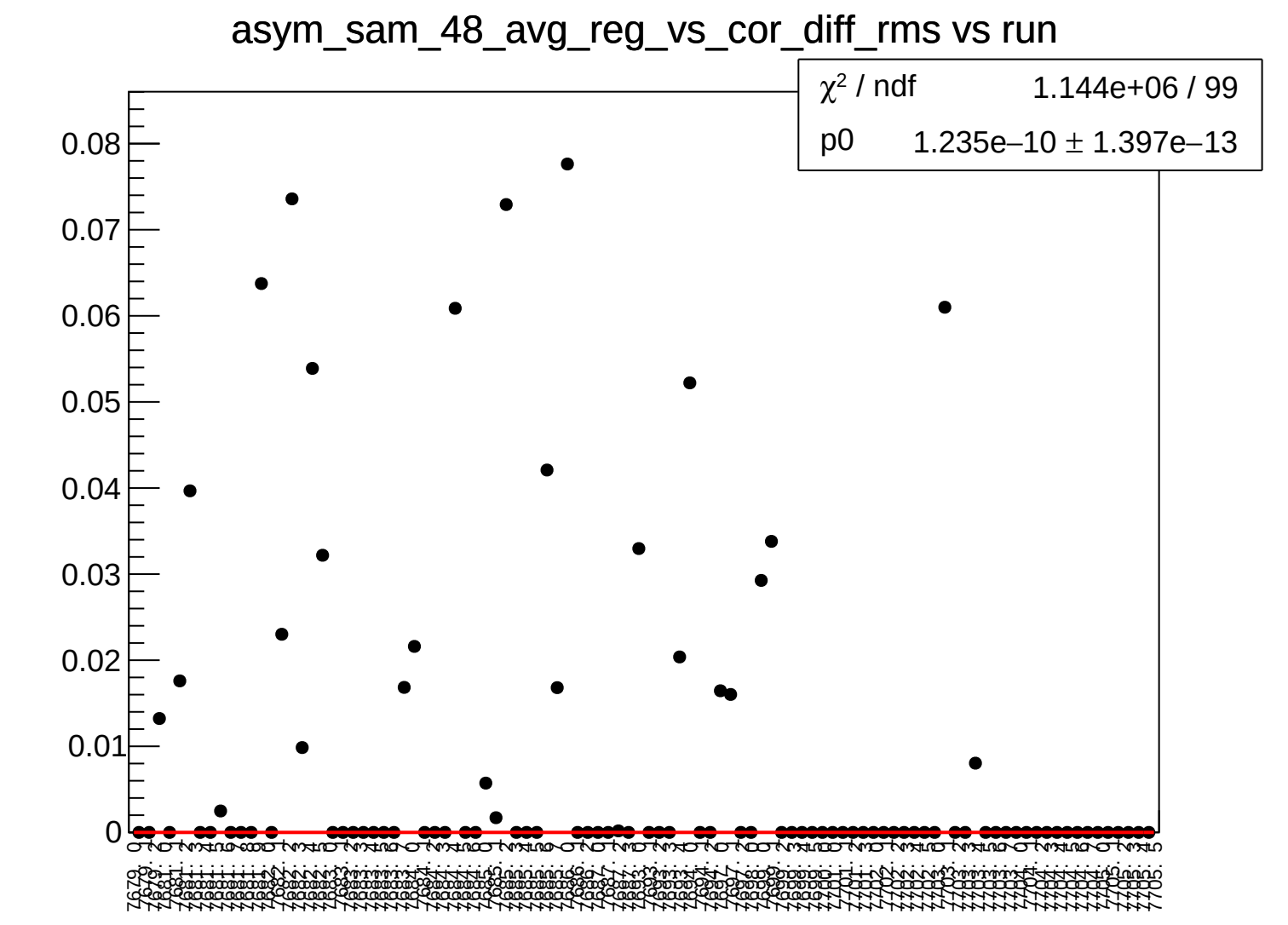

asym_sam_48_avg_mean vs run
×10^3
χ² / ndf 85.53 / 99
p0 −419.7 ± 3179
150
100
50
0
−50
−100
pull
Entries 100
Mean −212.1
Std Dev 0
2
1
0
−1
−2

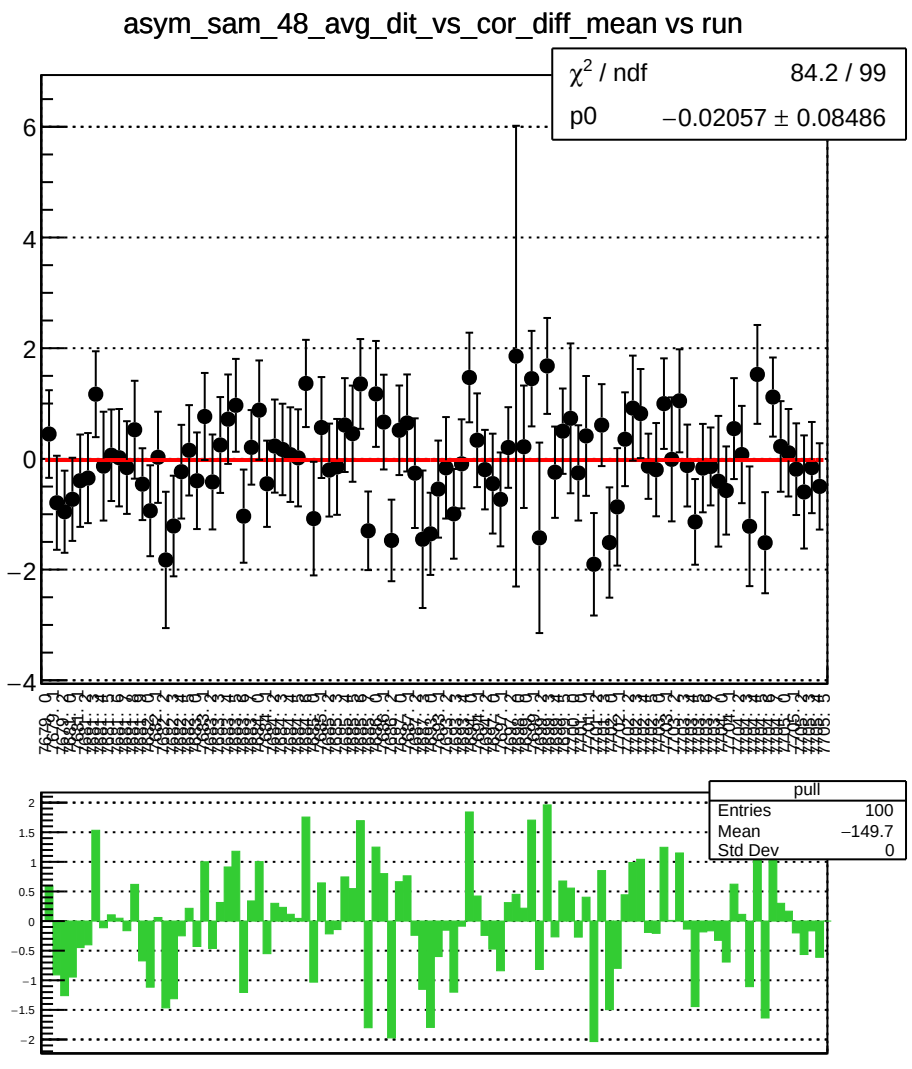

pull1D
Entries 100
Mean −0.0203
Std Dev 0.9246
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

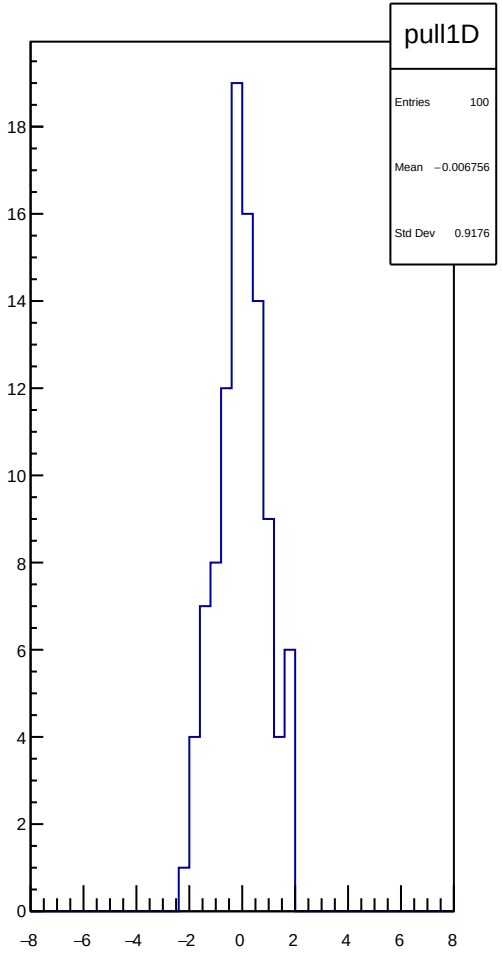

asym_sam_48_avg_rms vs run
χ² / ndf 3.822e+04 / 99
p0 3087 ± 2.248
4000
3800
3600
3400
3200
3000
2800
2600
2400

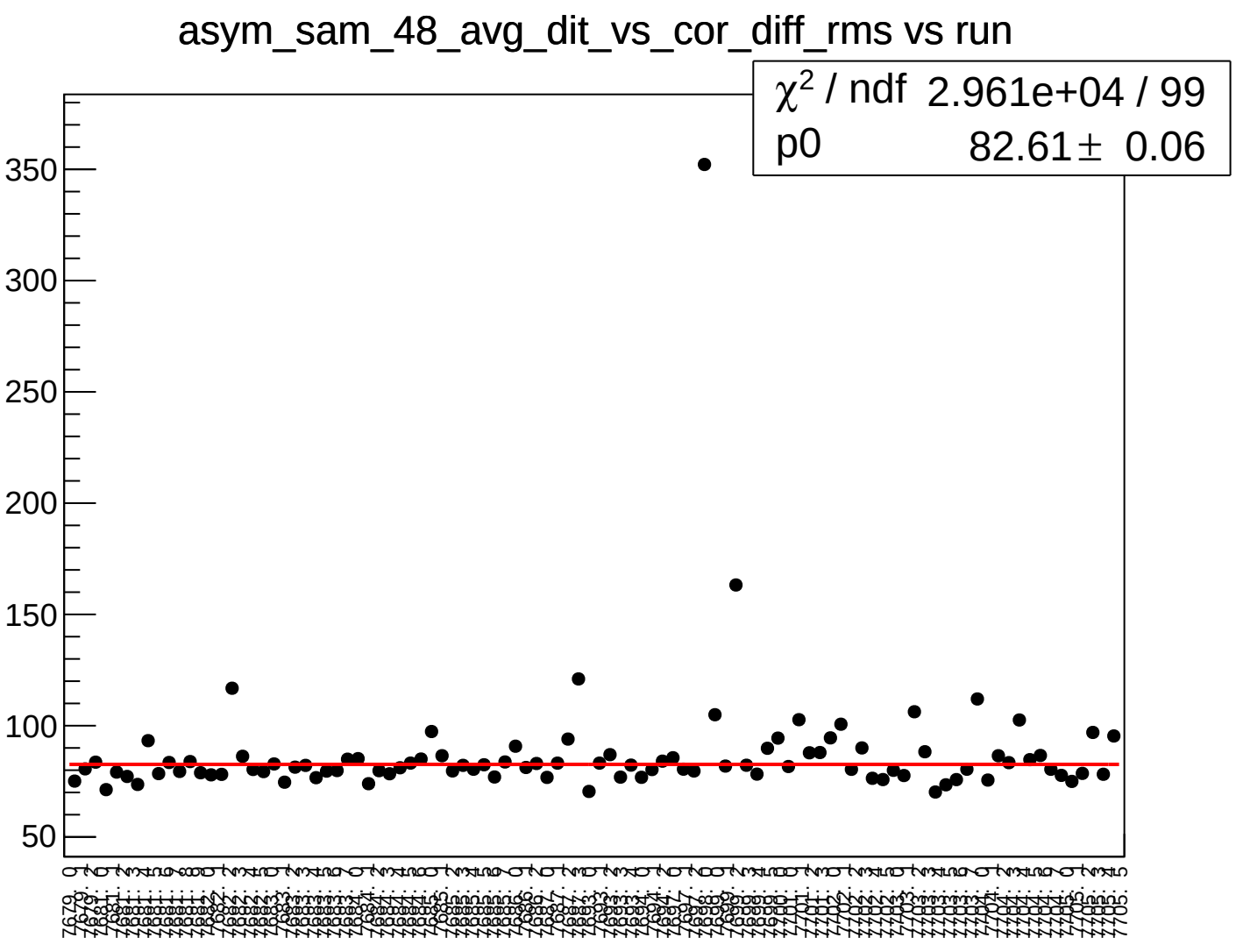

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.75 / 99
p0 −1.455e−13 ± 1.976e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 100
Mean −174.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

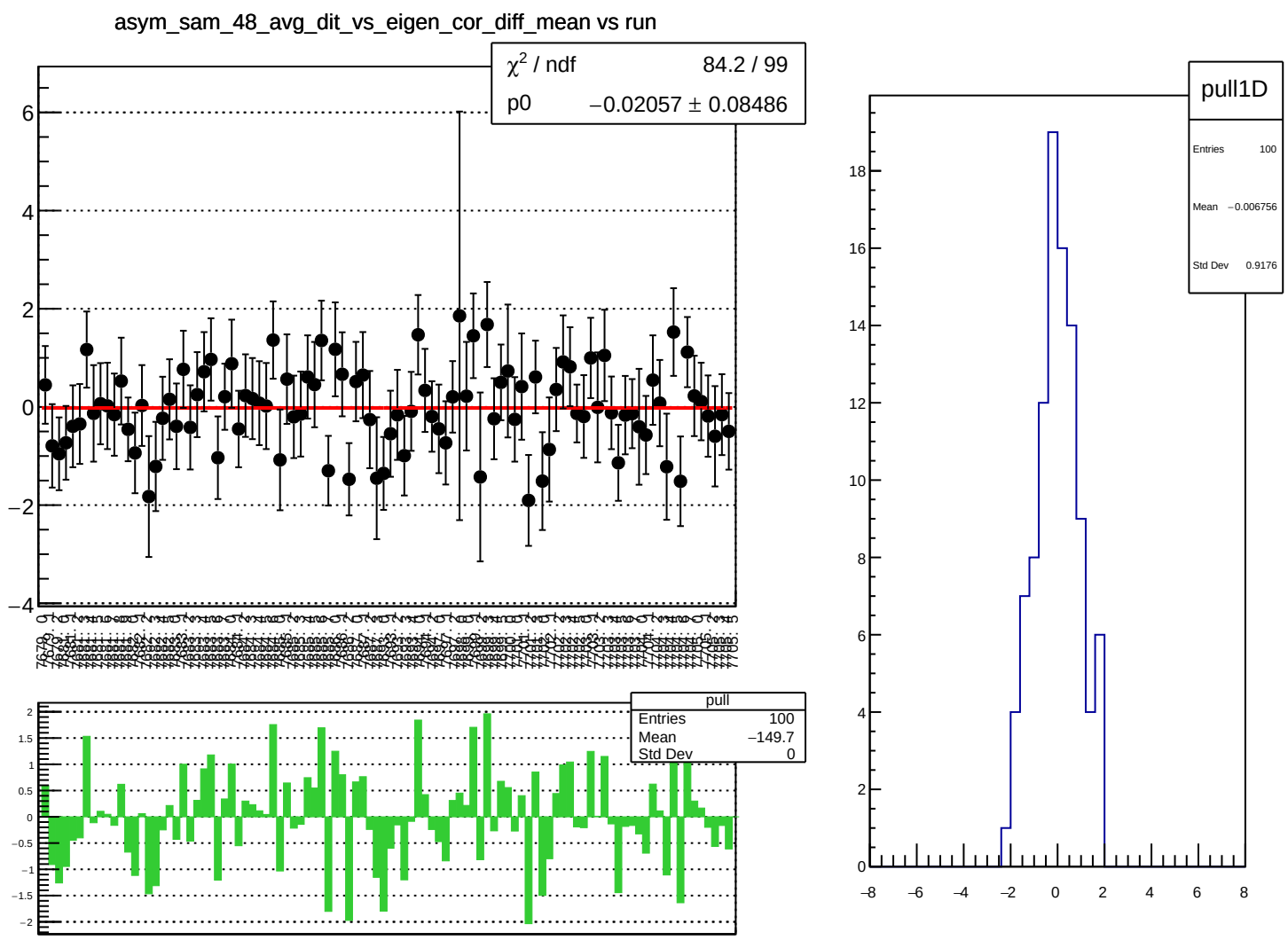

pull1D
Entries 100
Mean −0.01498
Std Dev 0.9525
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

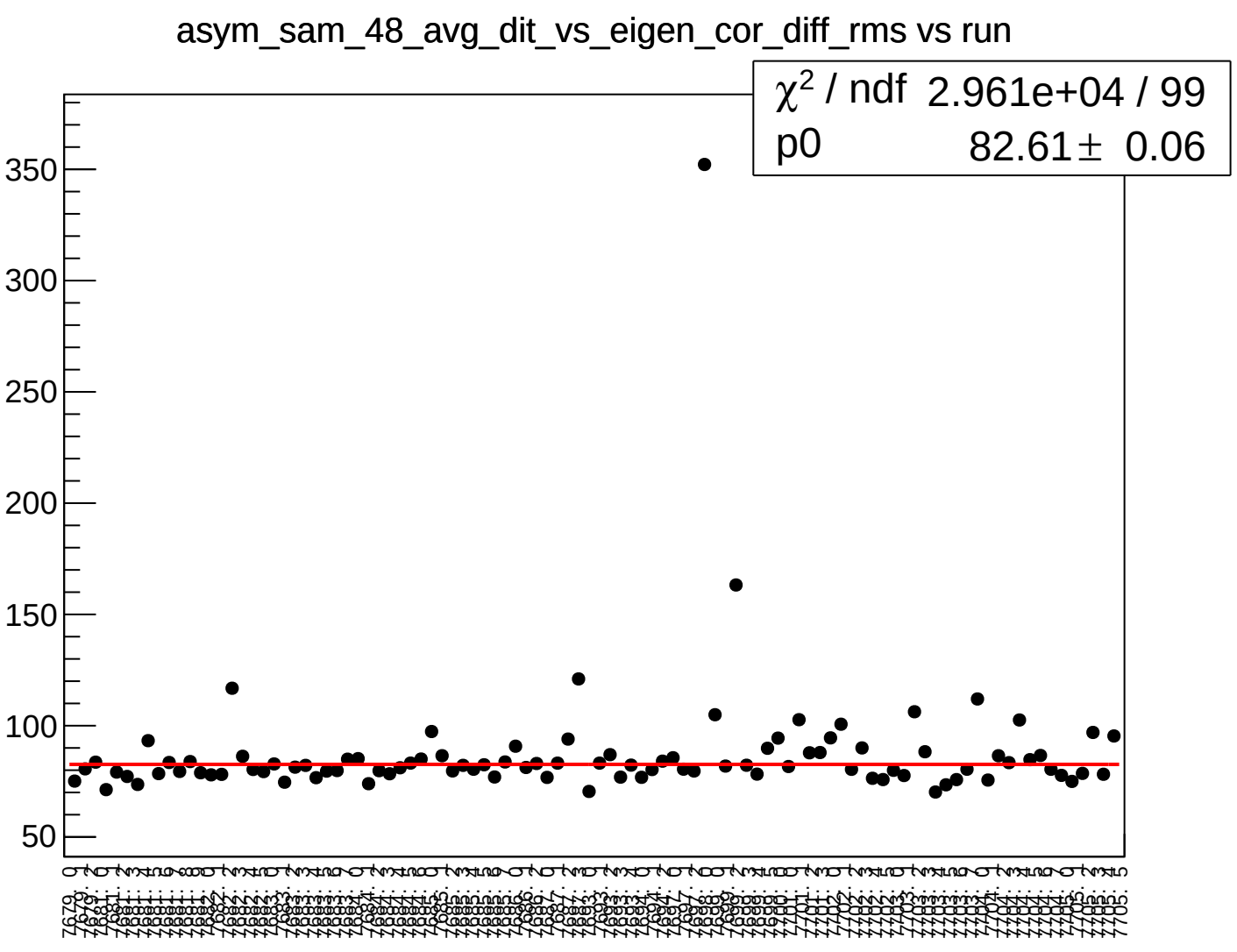

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.144e+06 / 99
p0 1.235e−10 ± 1.397e−13
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

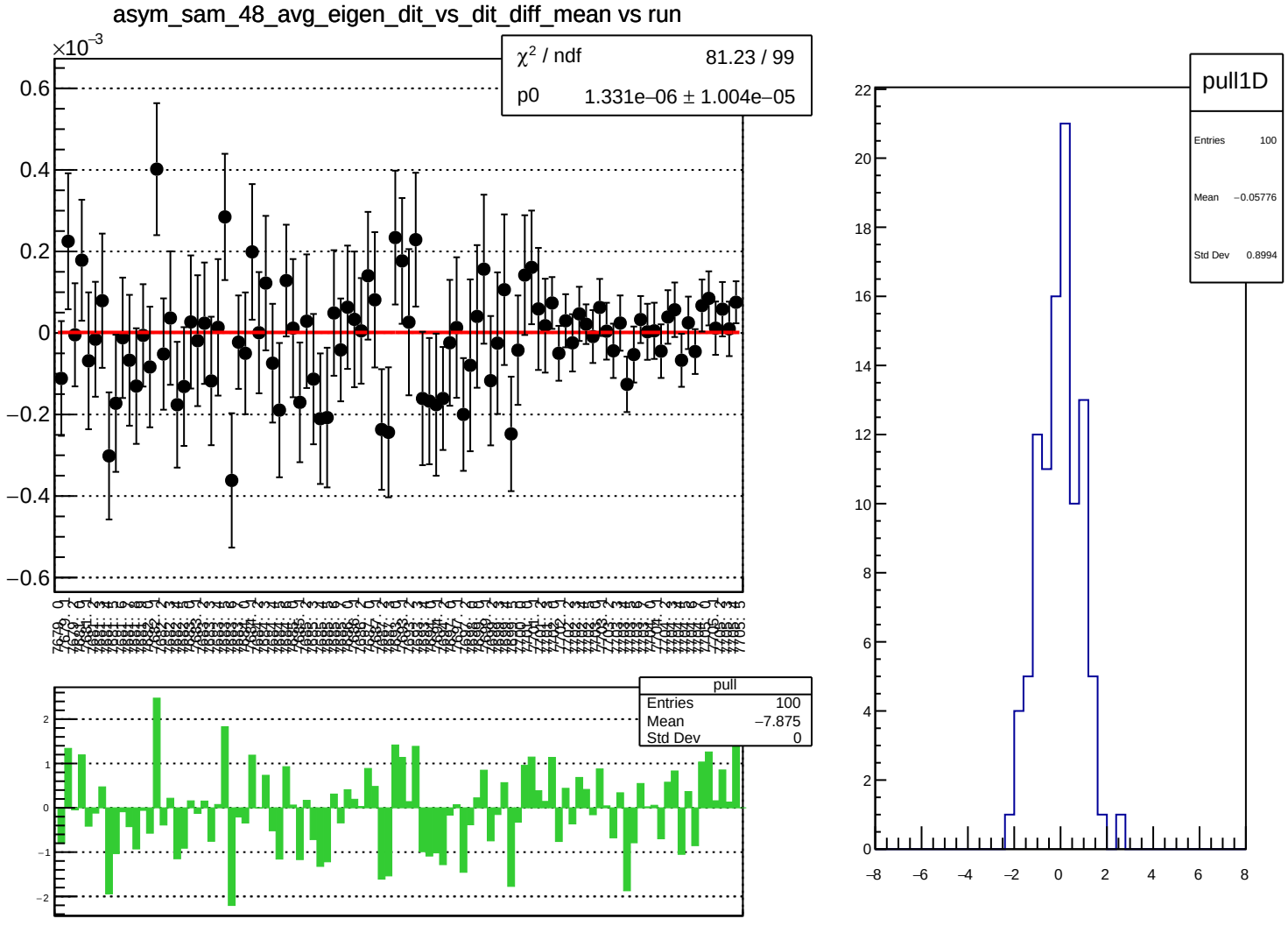

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.2 / 99
p0 −0.02057 ± 0.08486
pull
Entries 100
Mean −149.7
Std Dev 0

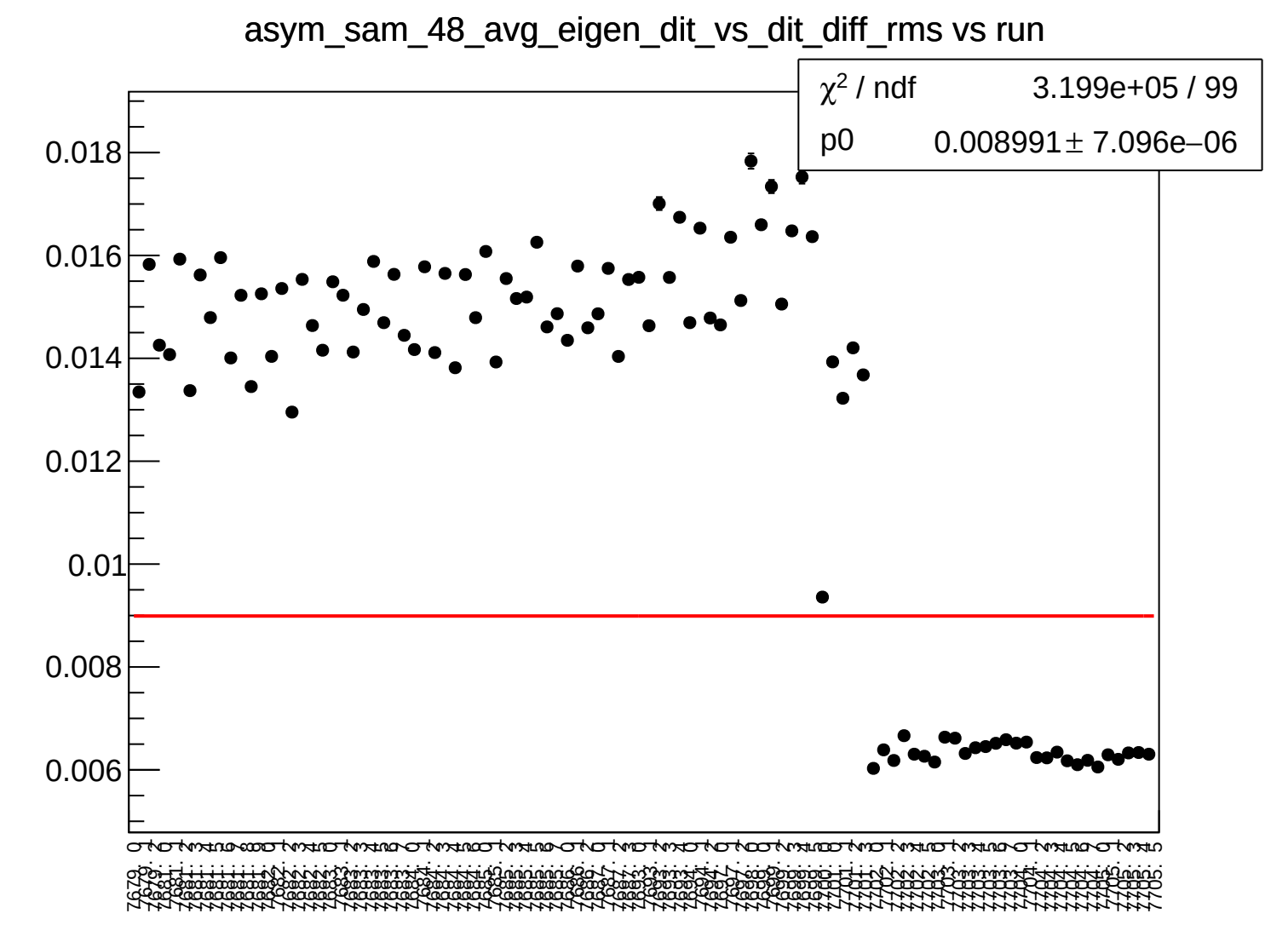

pull1D
Entries 100
Mean −0.006756
Std Dev 0.9176

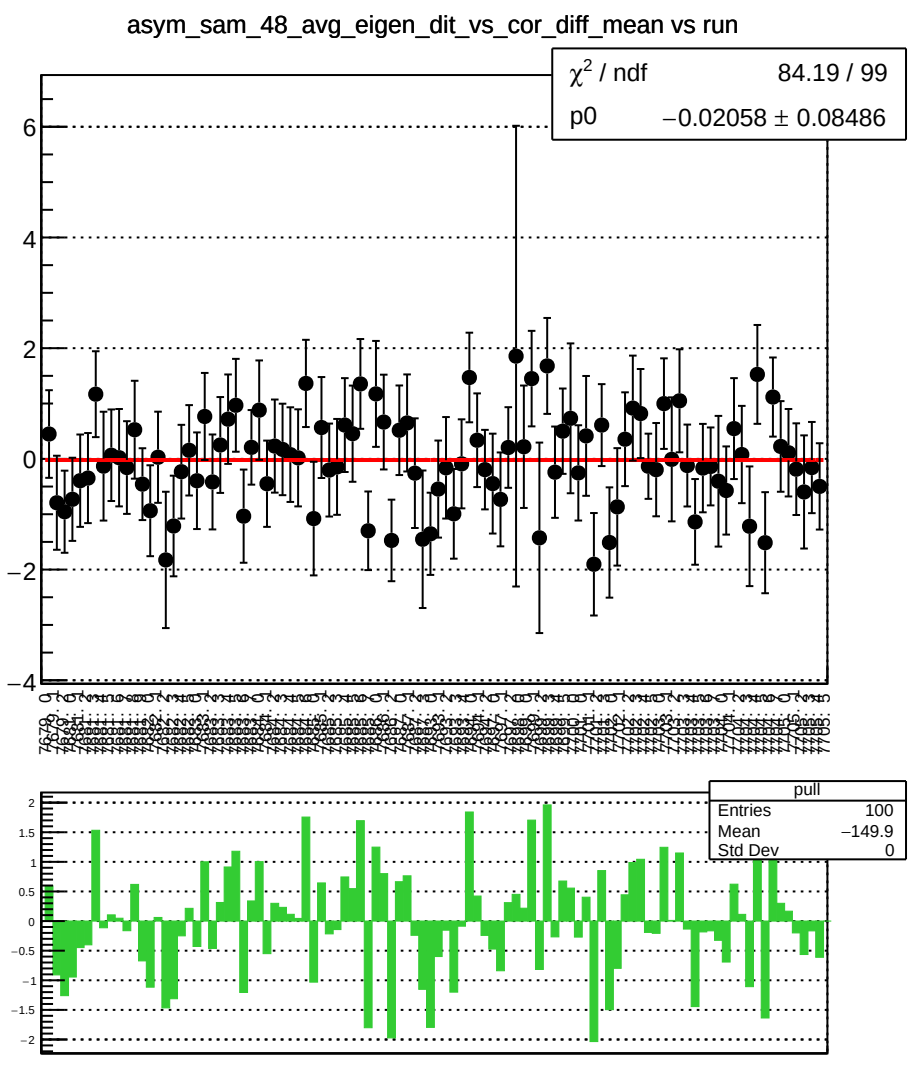

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.961e+04 / 99
p0 82.61 ± 0.06
350
300
250
200
150
100
50

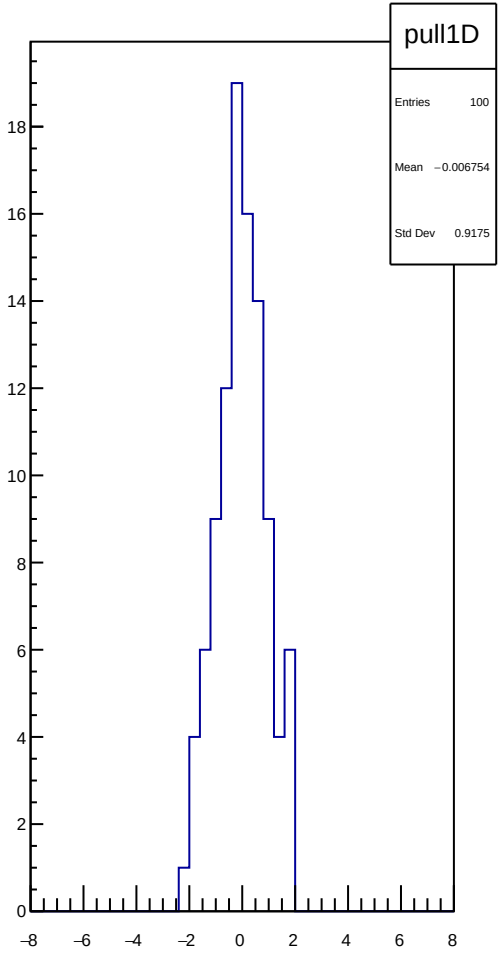

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.2 / 99
p0 −0.02057 ± 0.08486
pull
Entries 100
Mean −149.7
Std Dev 0
pull1D
Entries 100
Mean −0.006756
Std Dev 0.9176

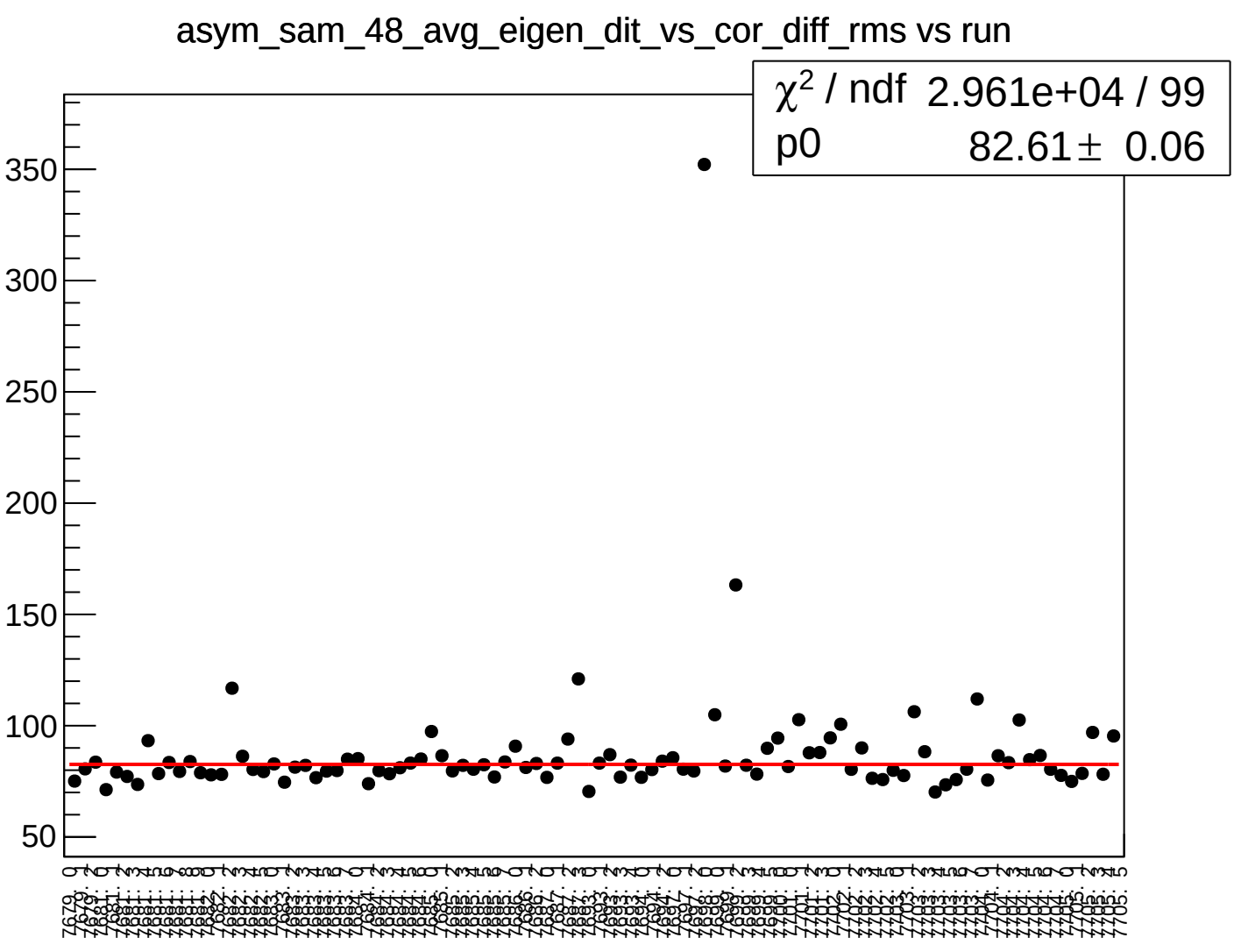

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.961e+04 / 99
p0 82.61 ± 0.06
350
300
250
200
150
100
50

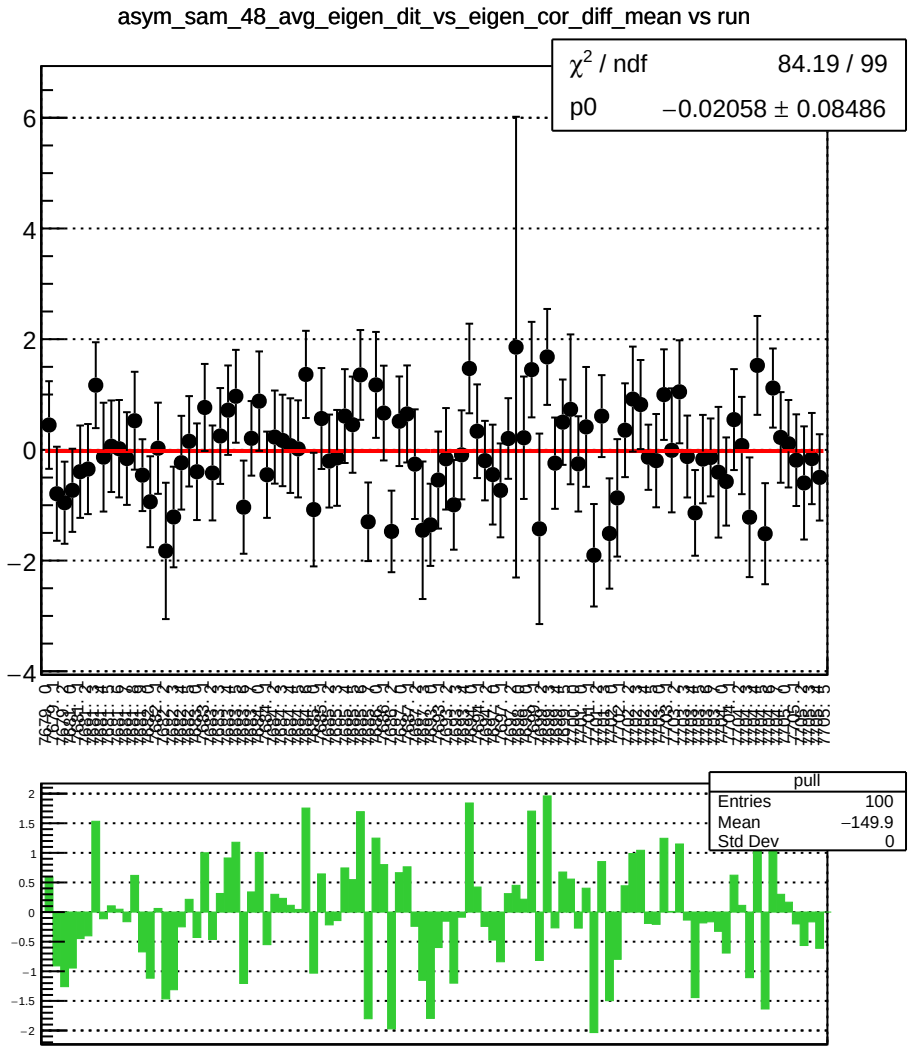

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.23 / 99
p0 1.331e−06 ± 1.004e−05
pull
Entries 100
Mean −7.875
Std Dev 0
pull1D
Entries 100
Mean −0.05776
Std Dev 0.8994

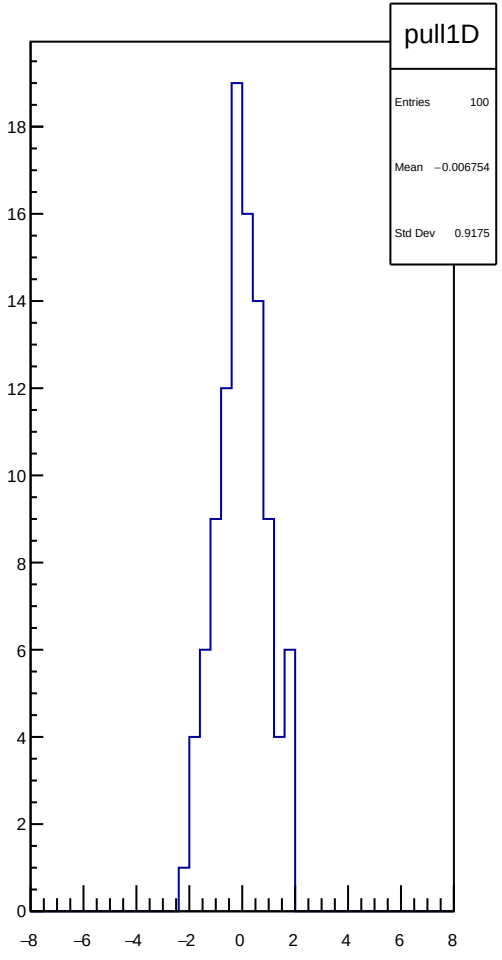

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.199e+05 / 99
p0 0.008991 ± 7.096e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

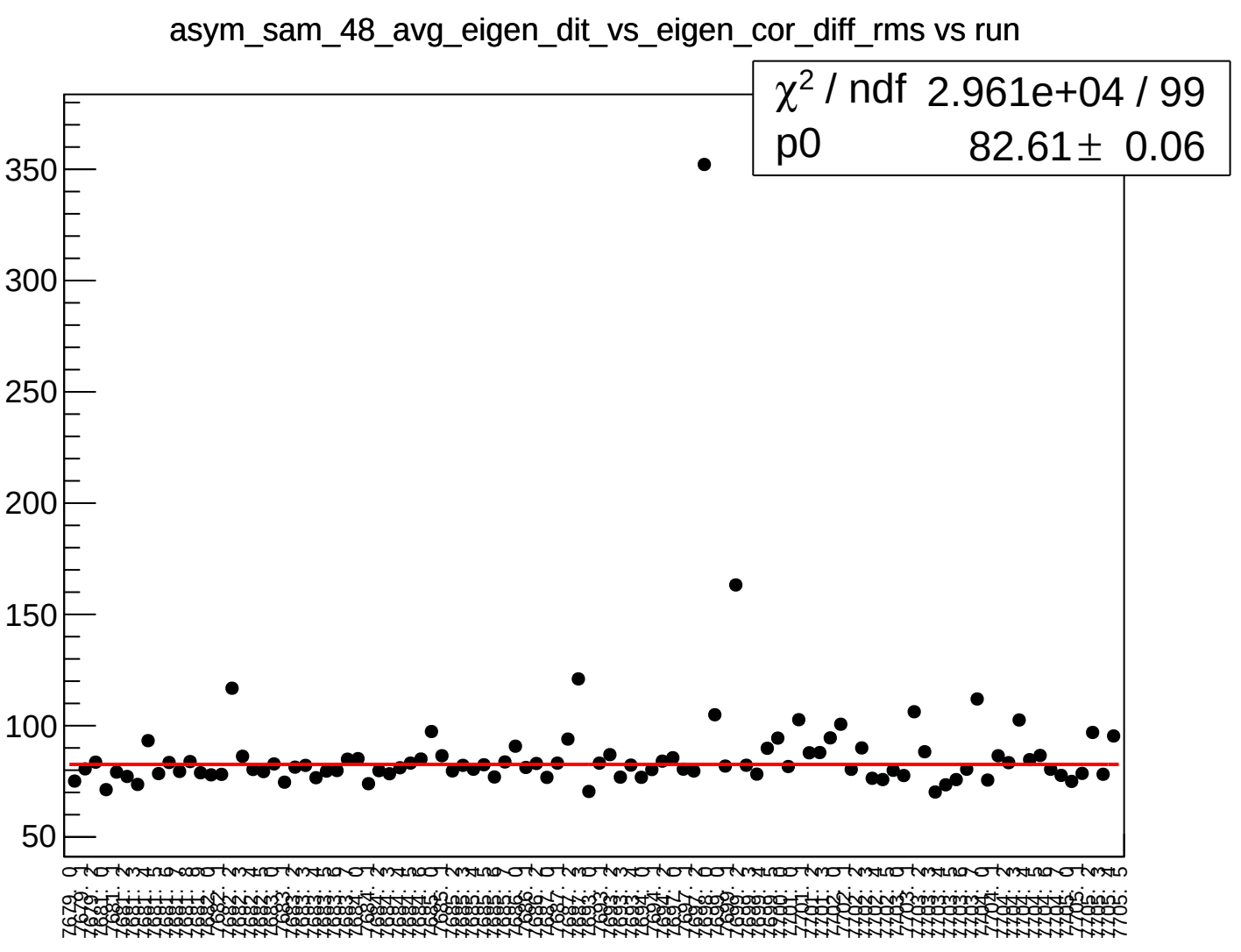

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.19 / 99
p0 −0.02058 ± 0.08486
pull
Entries 100
Mean −149.9
Std Dev 0

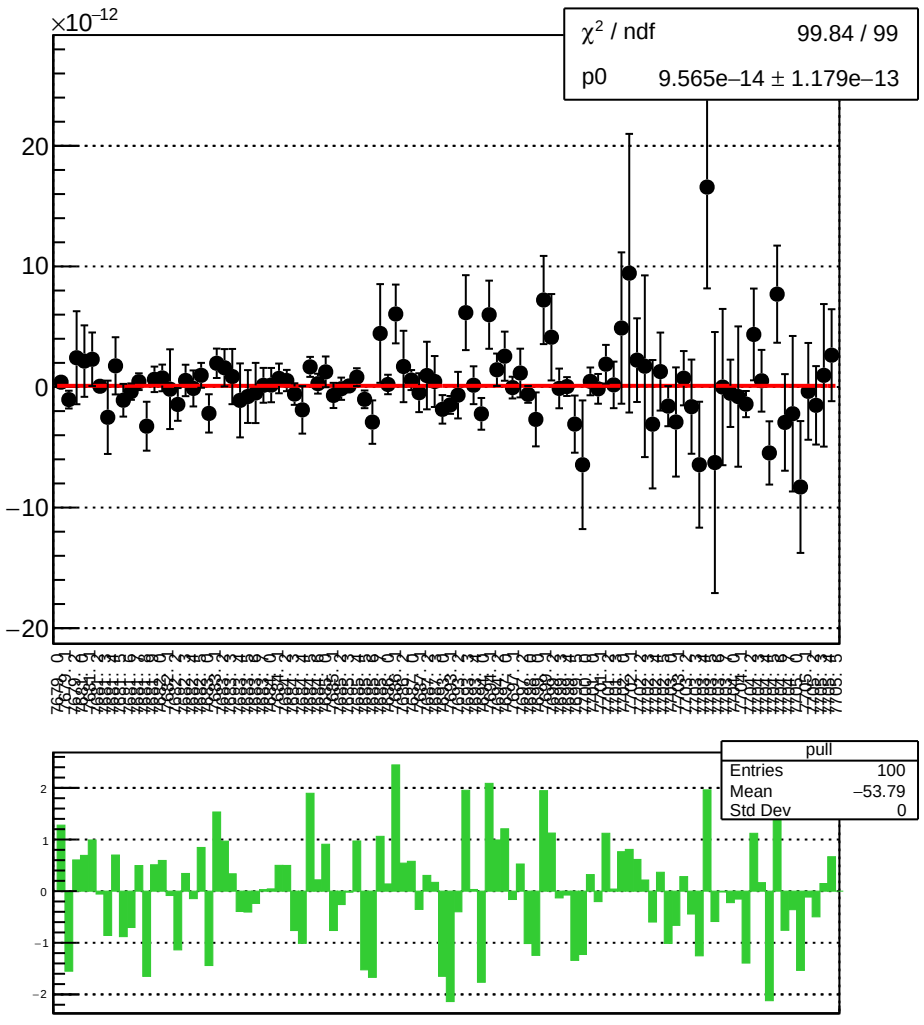

pull1D
Entries 100
Mean −0.006754
Std Dev 0.9175

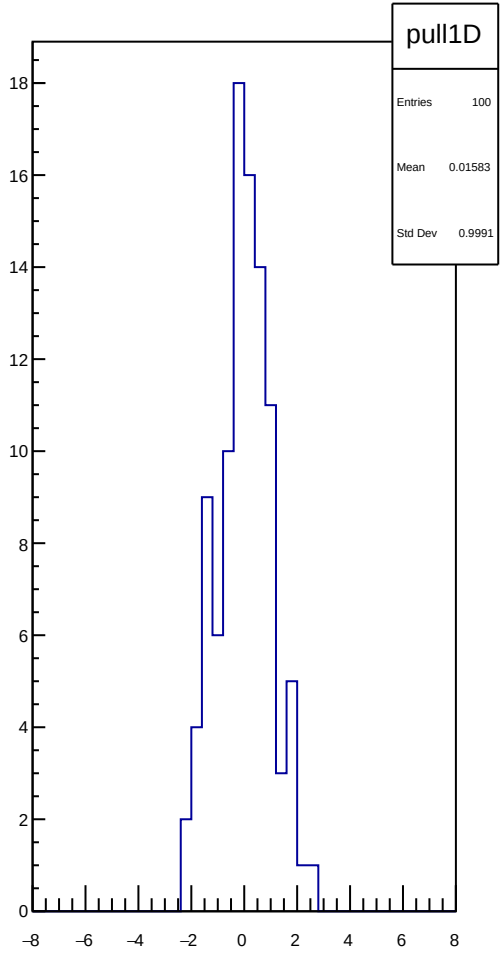

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.961e+04 / 99
p0 82.61 ± 0.06
350
300
250
200
150
100
50

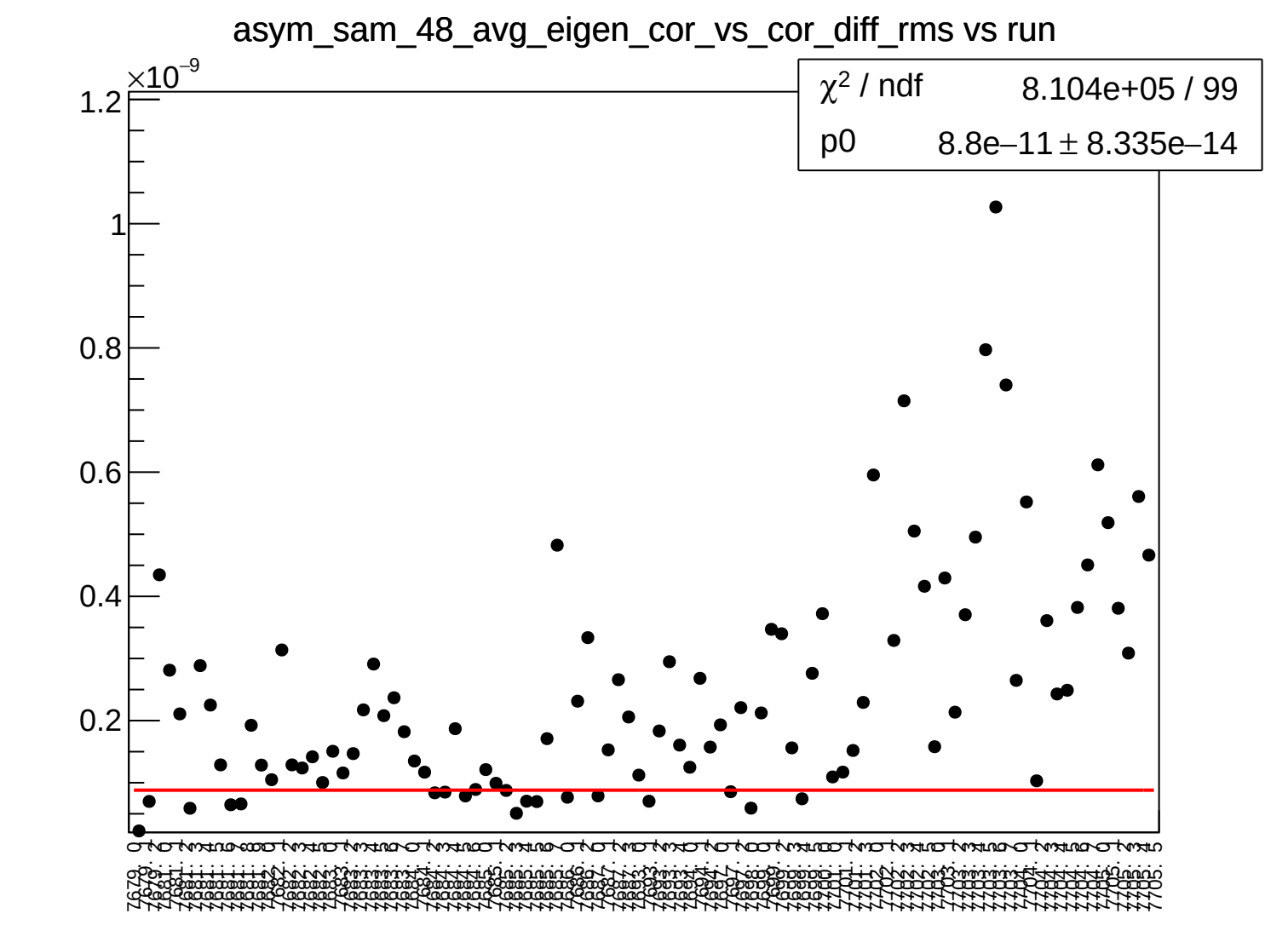

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.19 / 99
p0 −0.02058 ± 0.08486
pull
Entries 100
Mean −149.9
Std Dev 0

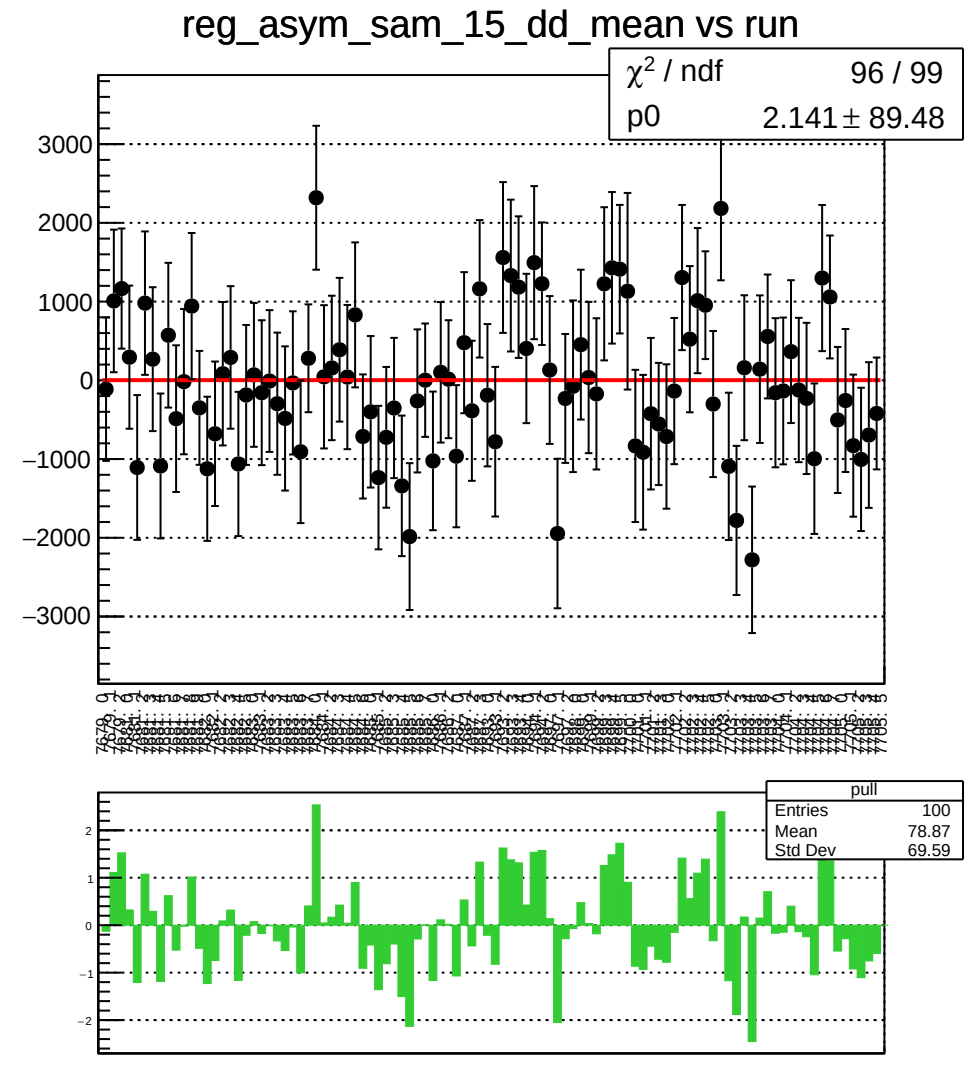

pull1D
Entries 100
Mean −0.006754
Std Dev 0.9175

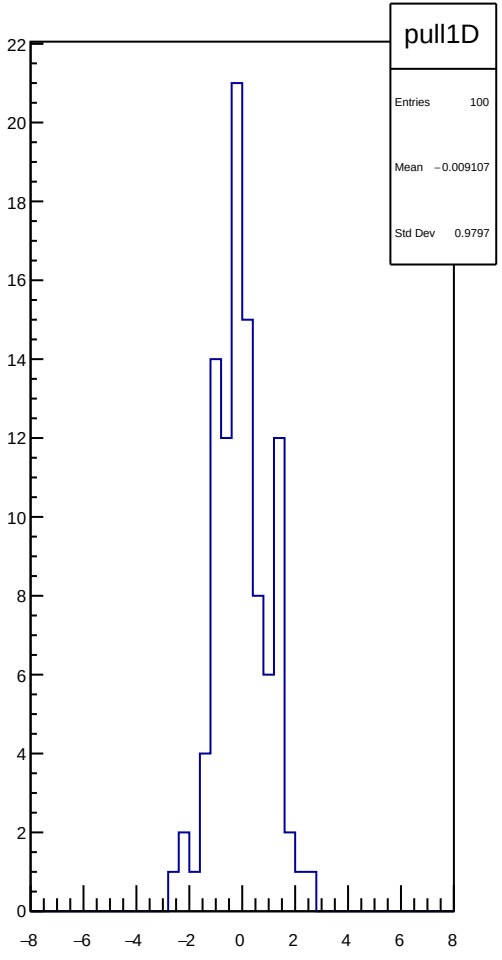

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.961e+04 / 99
p0 82.61 ± 0.06
350
300
250
200
150
100
50

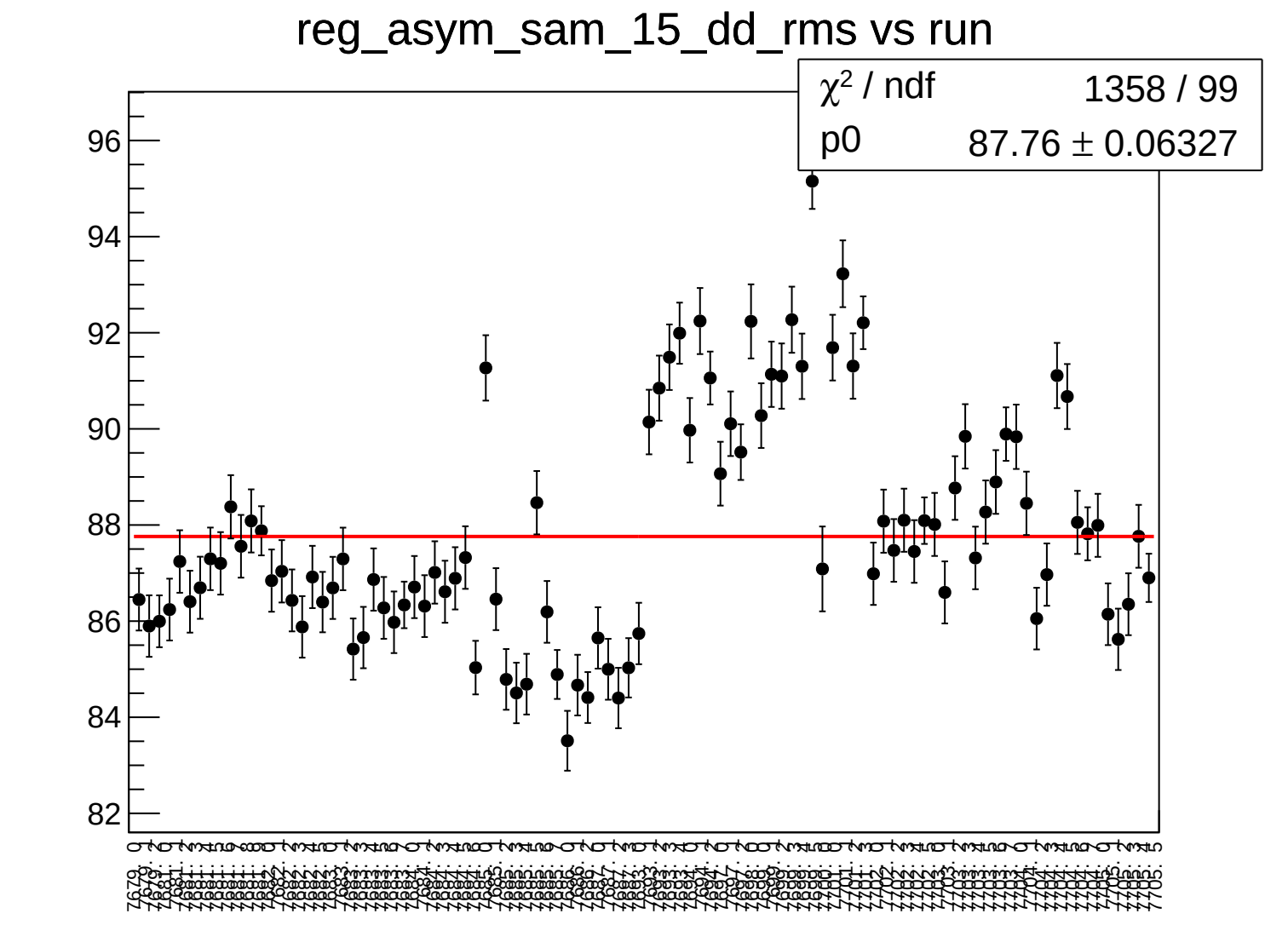

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.84 / 99
p0 9.565e−14 ± 1.179e−13
20
10
0
−10
−20
pull
Entries 100
Mean −53.79
Std Dev 0
2
1
0
−1
−2

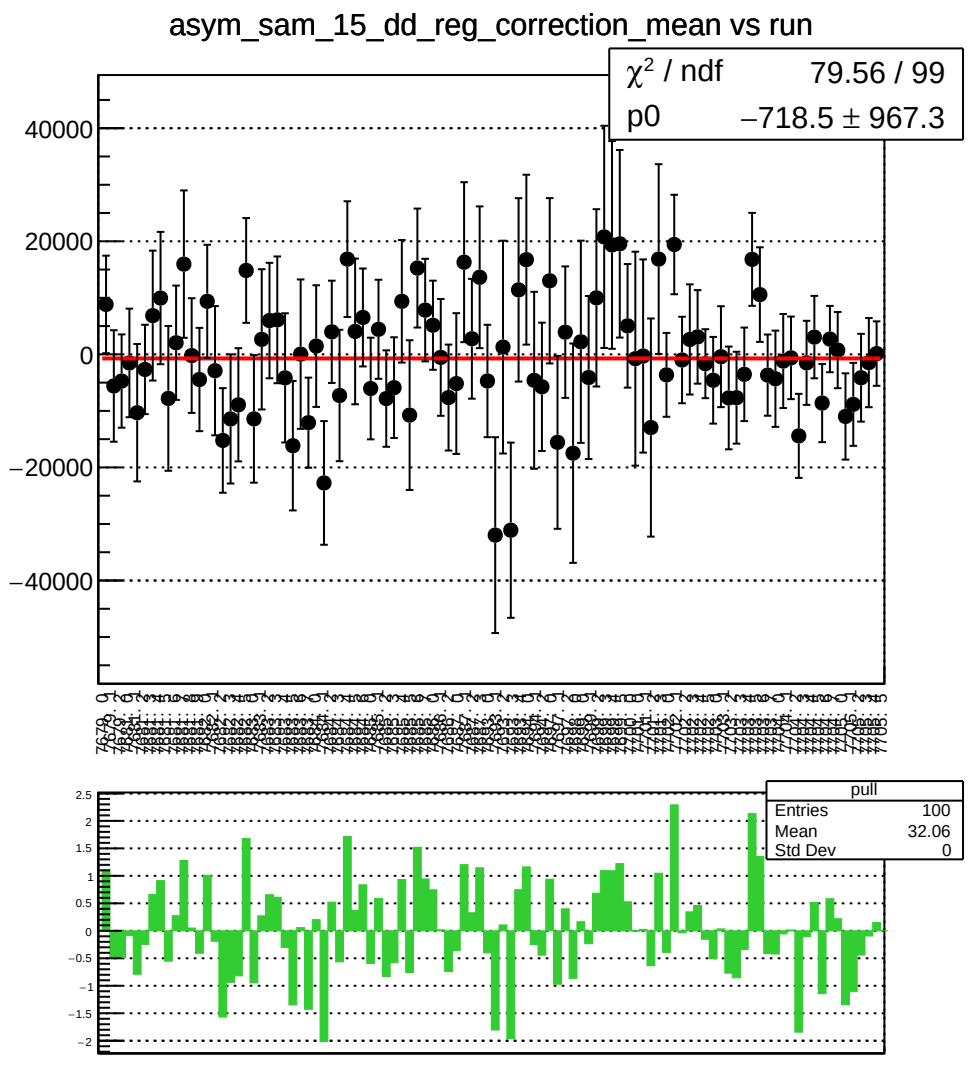

pull1D
Entries 100
Mean 0.01583
Std Dev 0.9991
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

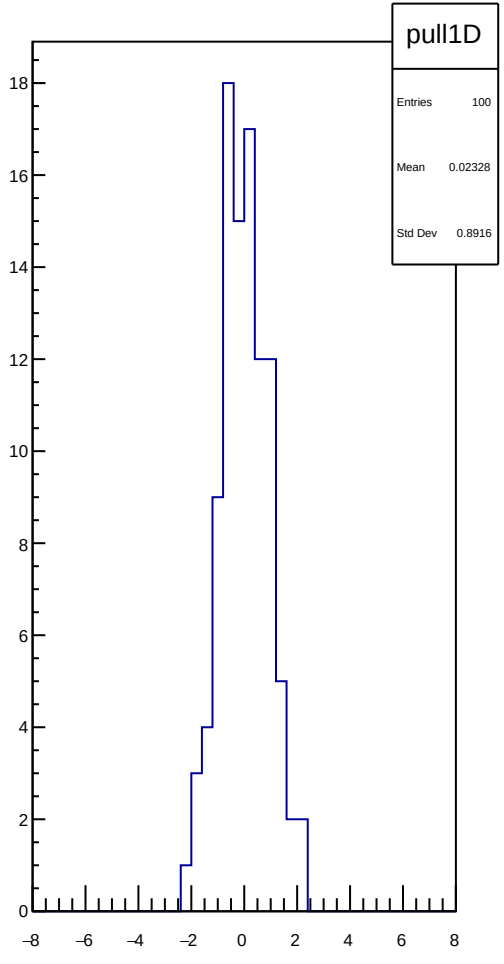

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
1.2
1
0.8
0.6
0.4
0.2
χ² / ndf 8.104e+05 / 99
p0 8.8e−11 ± 8.335e−14

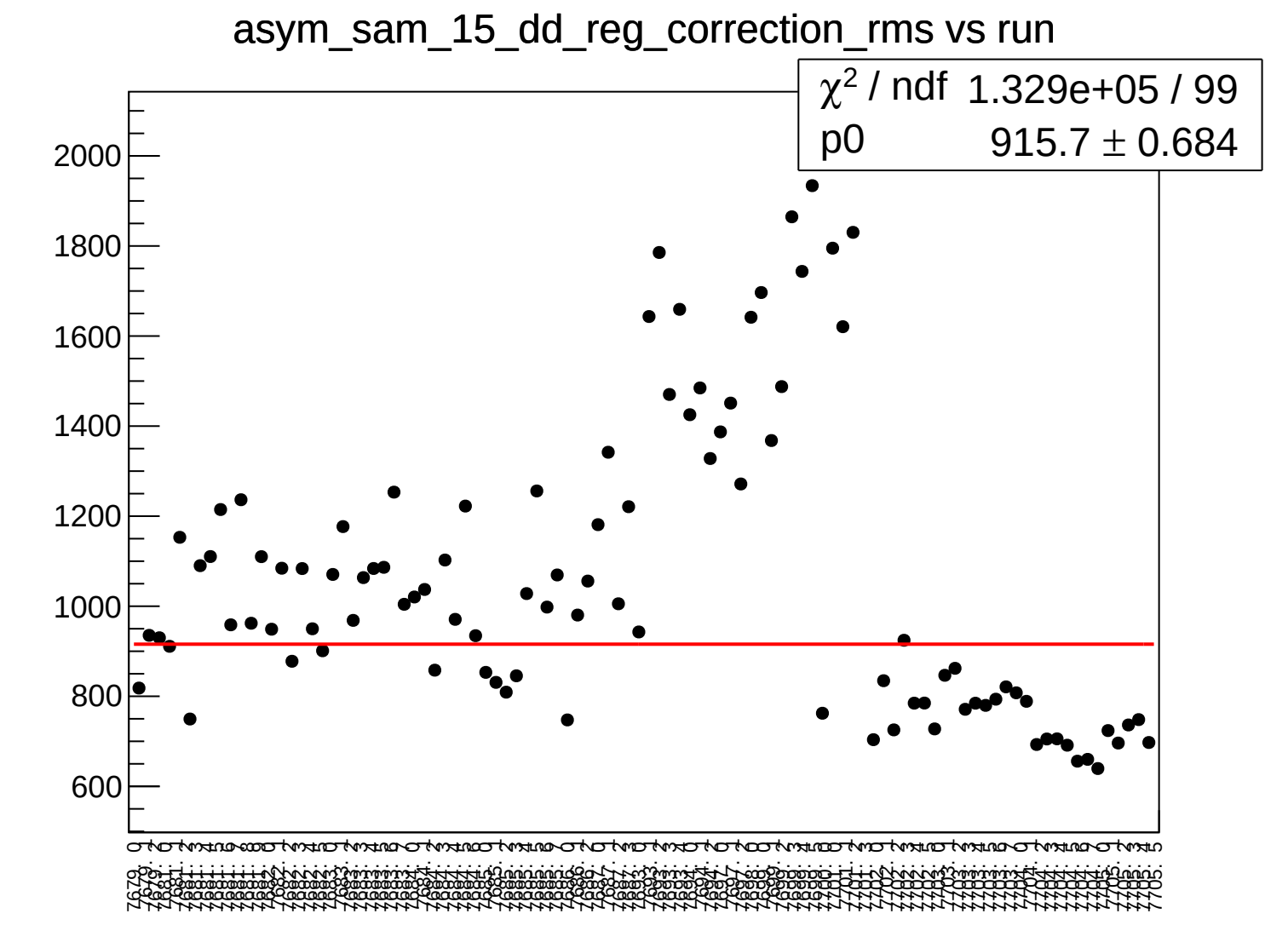

reg_asym_sam_15_dd_mean vs run
χ² / ndf 96 / 99
p0 2.141 ± 89.48
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 100
Mean 78.87
Std Dev 69.59
2
1
0
−1
−2

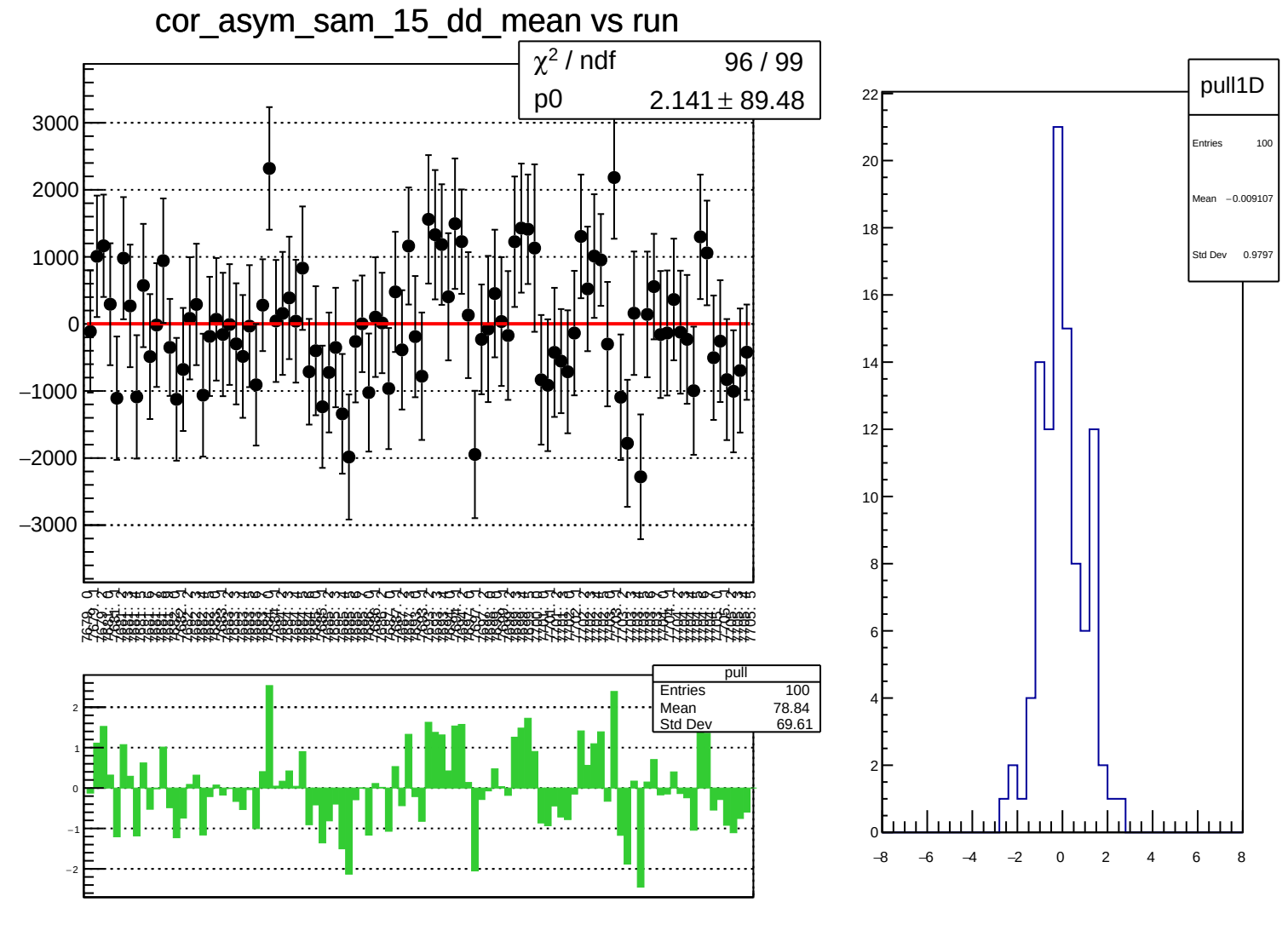

pull1D
Entries 100
Mean −0.009107
Std Dev 0.9797
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

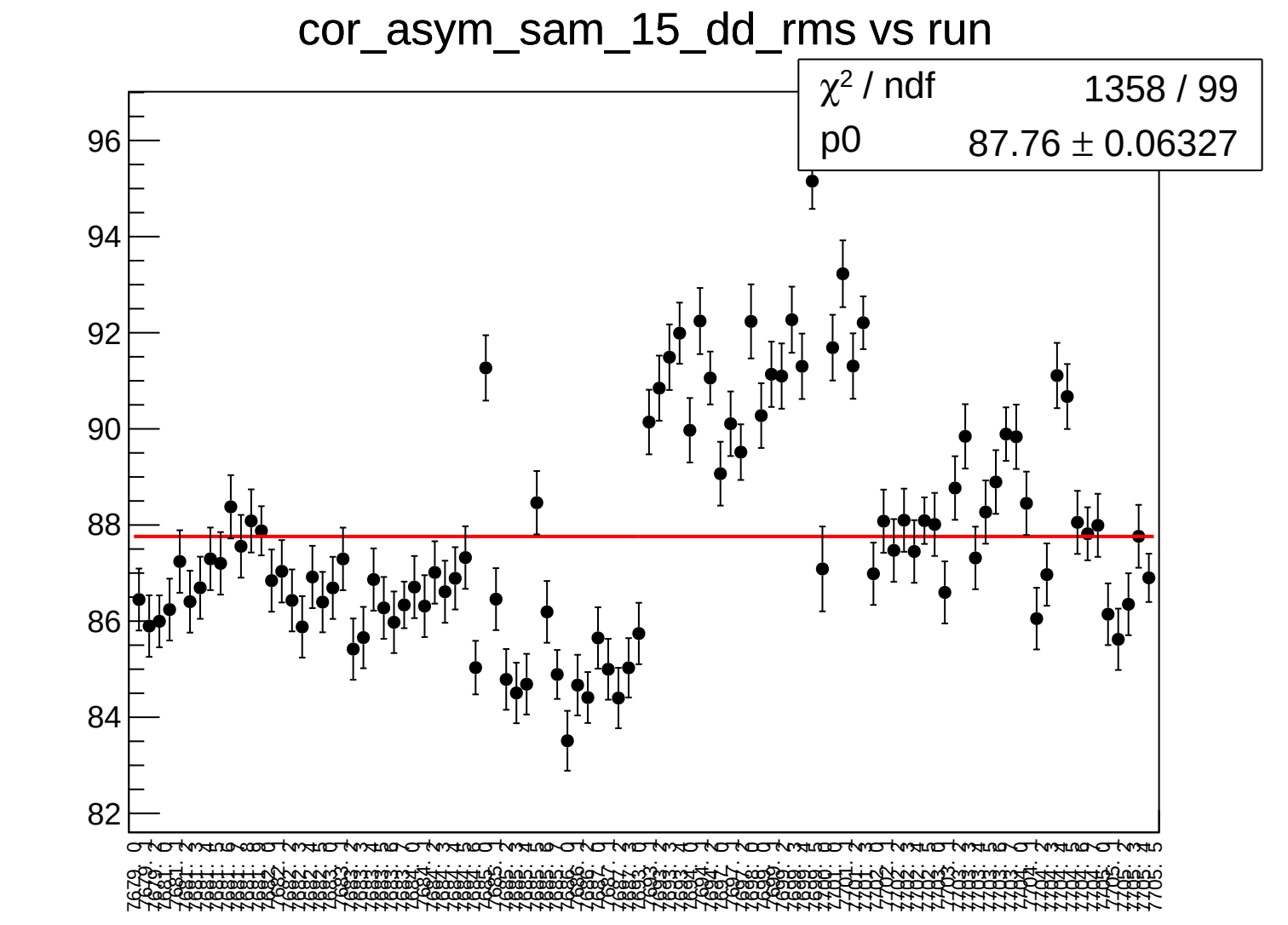

reg_asym_sam_15_dd_rms vs run
χ^2 / ndf 1358 / 99
p0 87.76 ± 0.06327
96
94
92
90
88
86
84
82

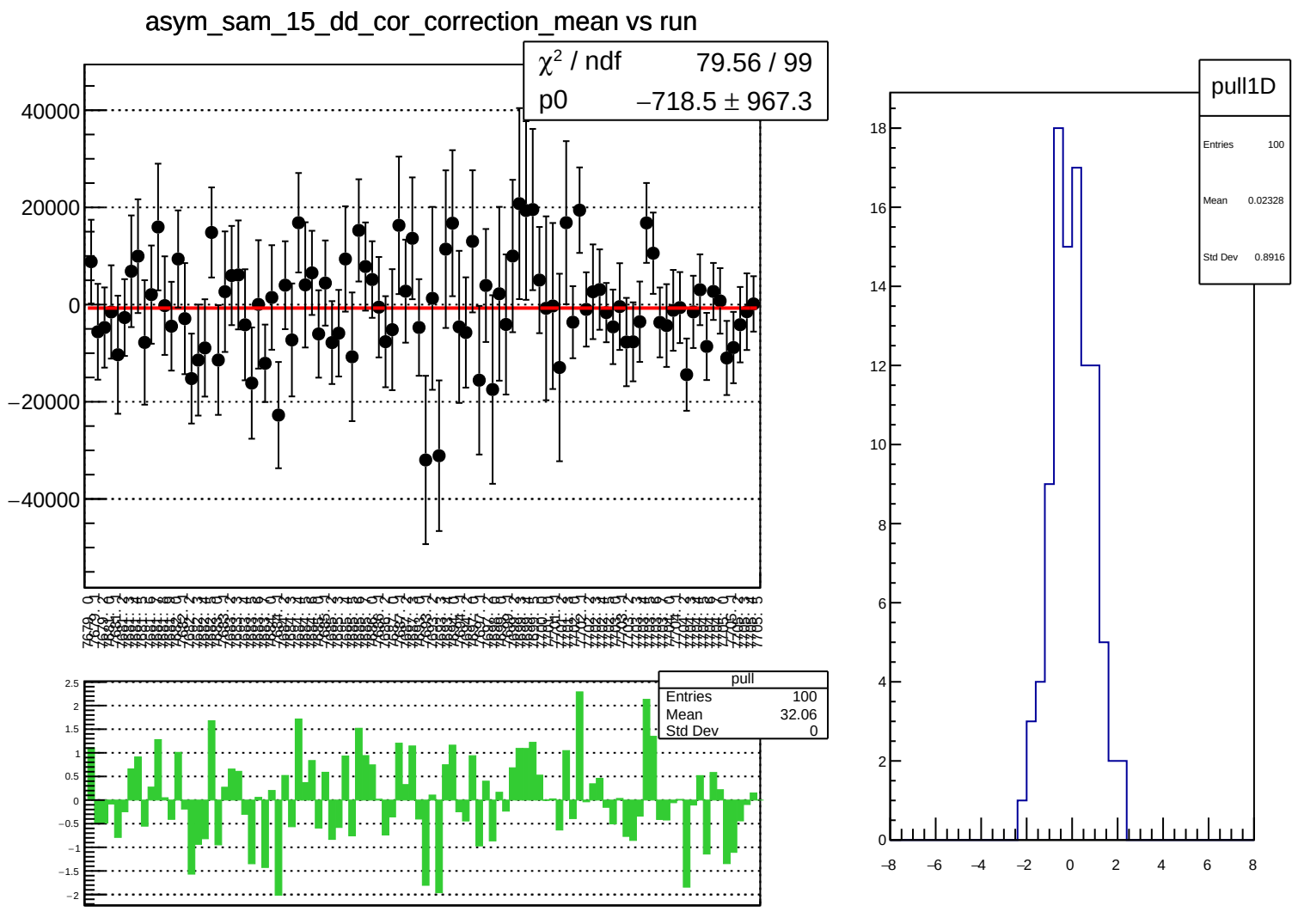

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 79.56 / 99
p0 −718.5 ± 967.3
40000
20000
0
−20000
−40000
pull
Entries 100
Mean 32.06
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

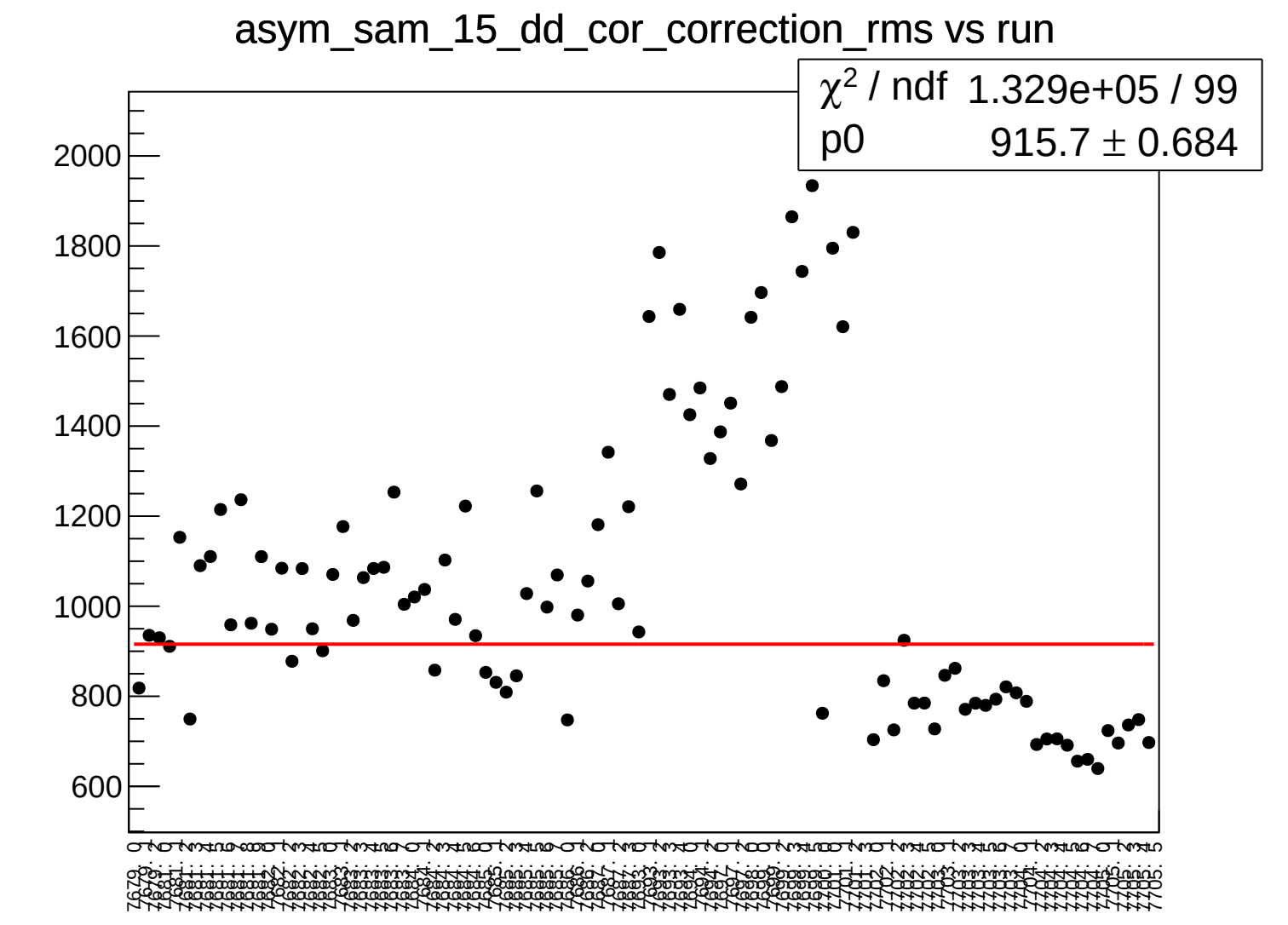

pull1D
Entries 100
Mean 0.02328
Std Dev 0.8916
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

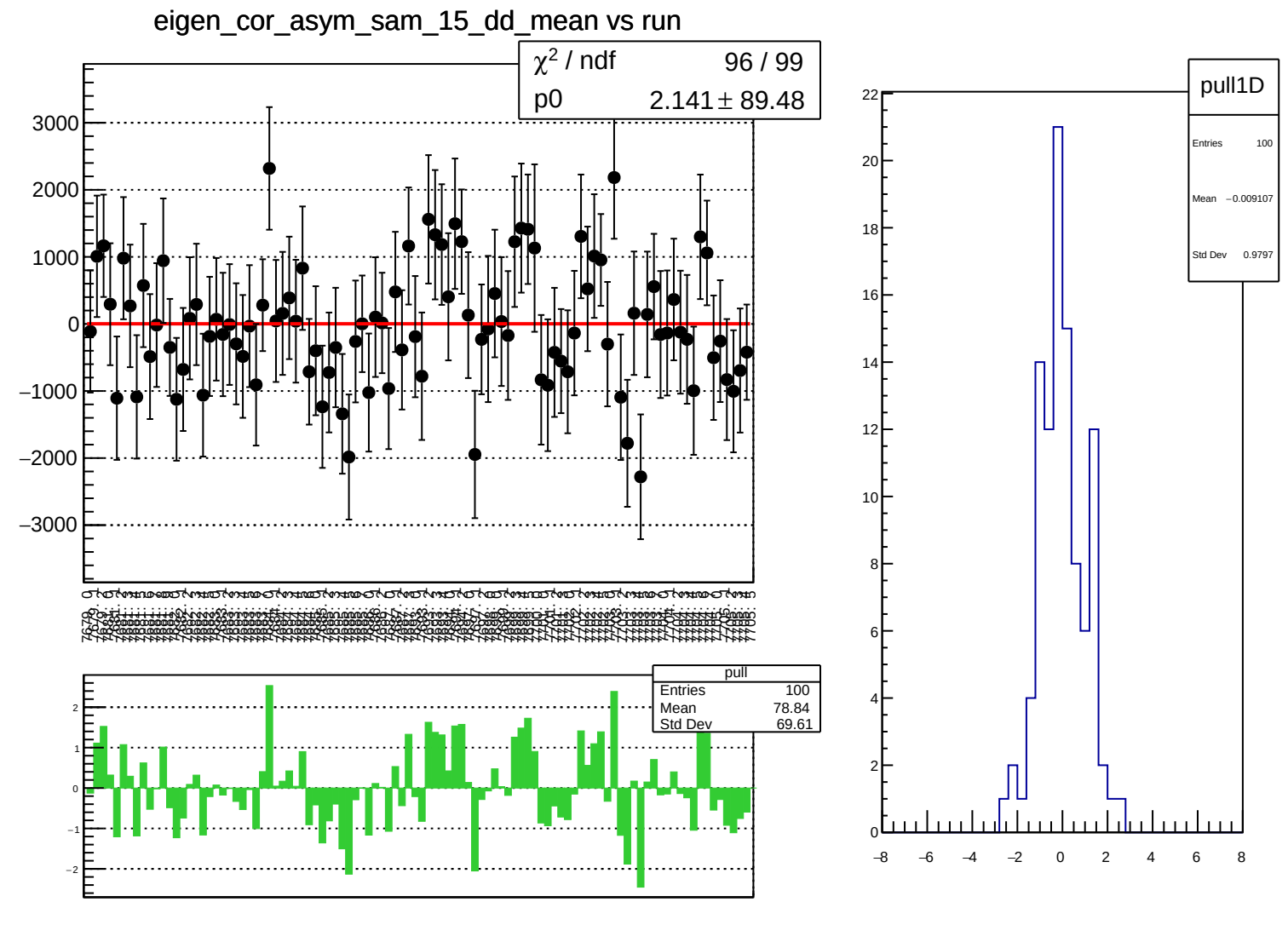

asym_sam_15_dd_reg_correction_rms vs run
χ^2 / ndf 1.329e+05 / 99
p0 915.7 ± 0.684
2000
1800
1600
1400
1200
1000
800
600

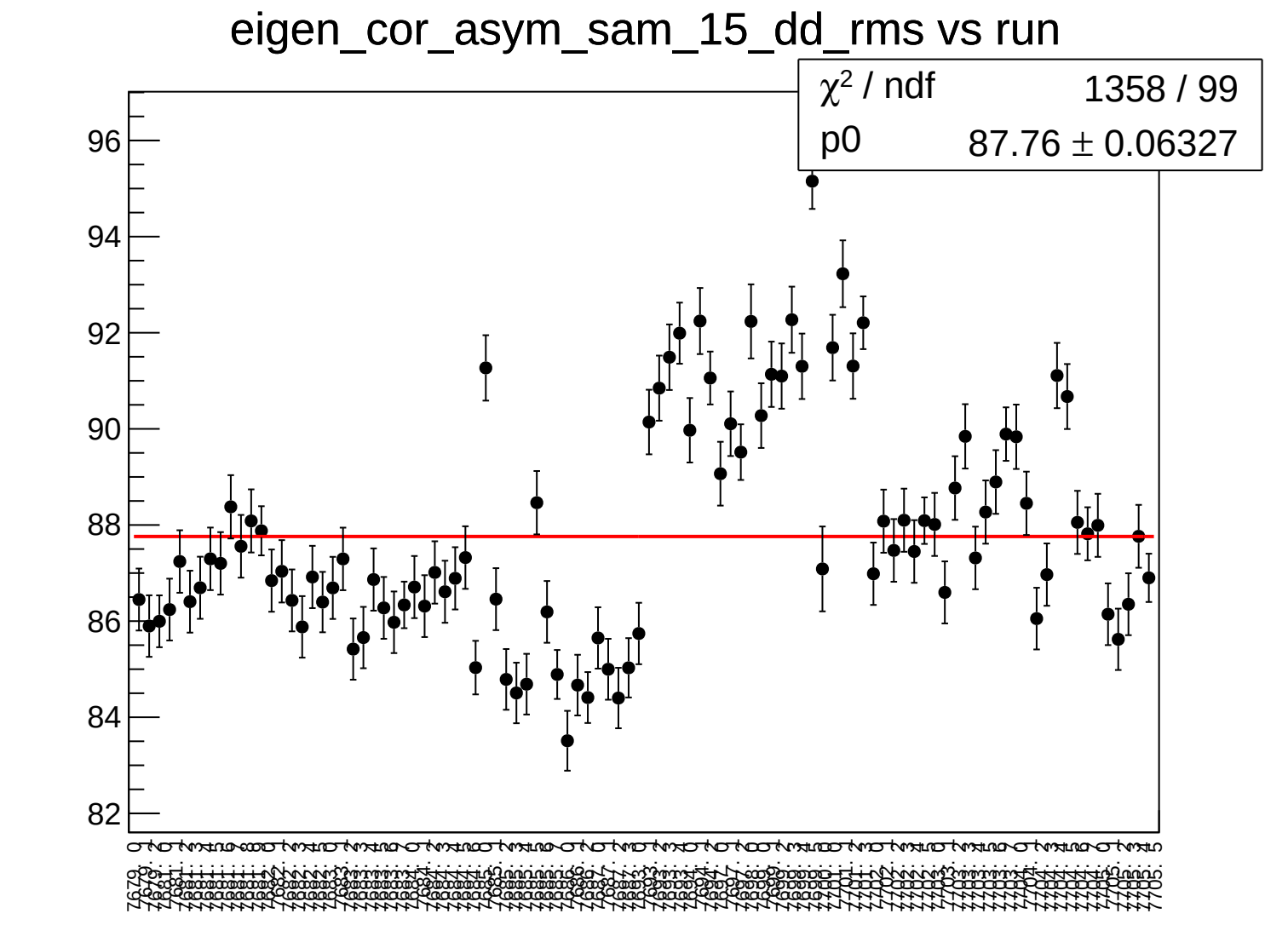

cor_asym_sam_15_dd_mean vs run
χ² / ndf 96 / 99
p0 2.141 ± 89.48
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 100
Mean 78.84
Std Dev 69.61
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.009107
Std Dev 0.9797
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

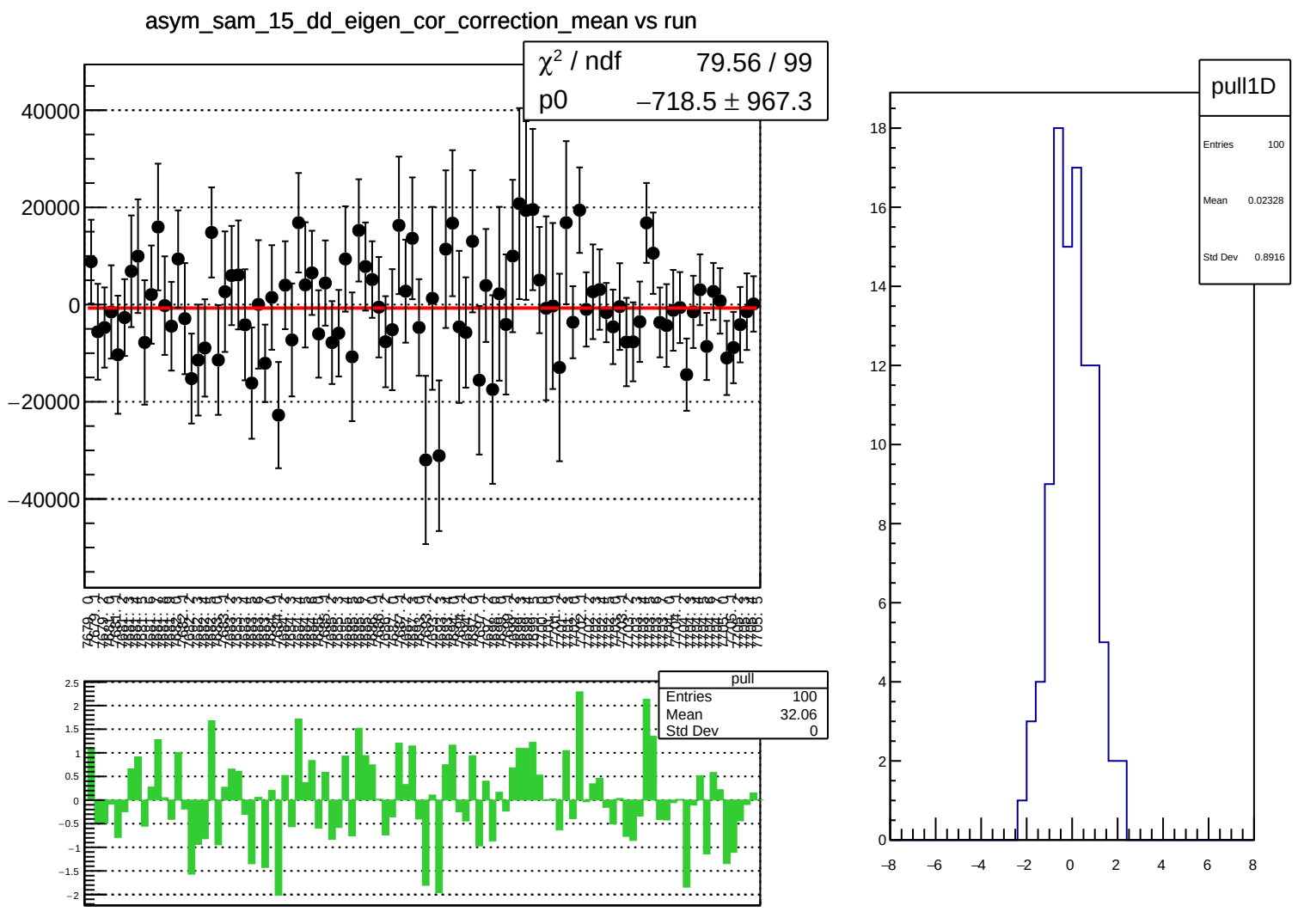

cor_asym_sam_15_dd_rms vs run
χ^2 / ndf 1358 / 99
p0 87.76 ± 0.06327
96
94
92
90
88
86
84
82

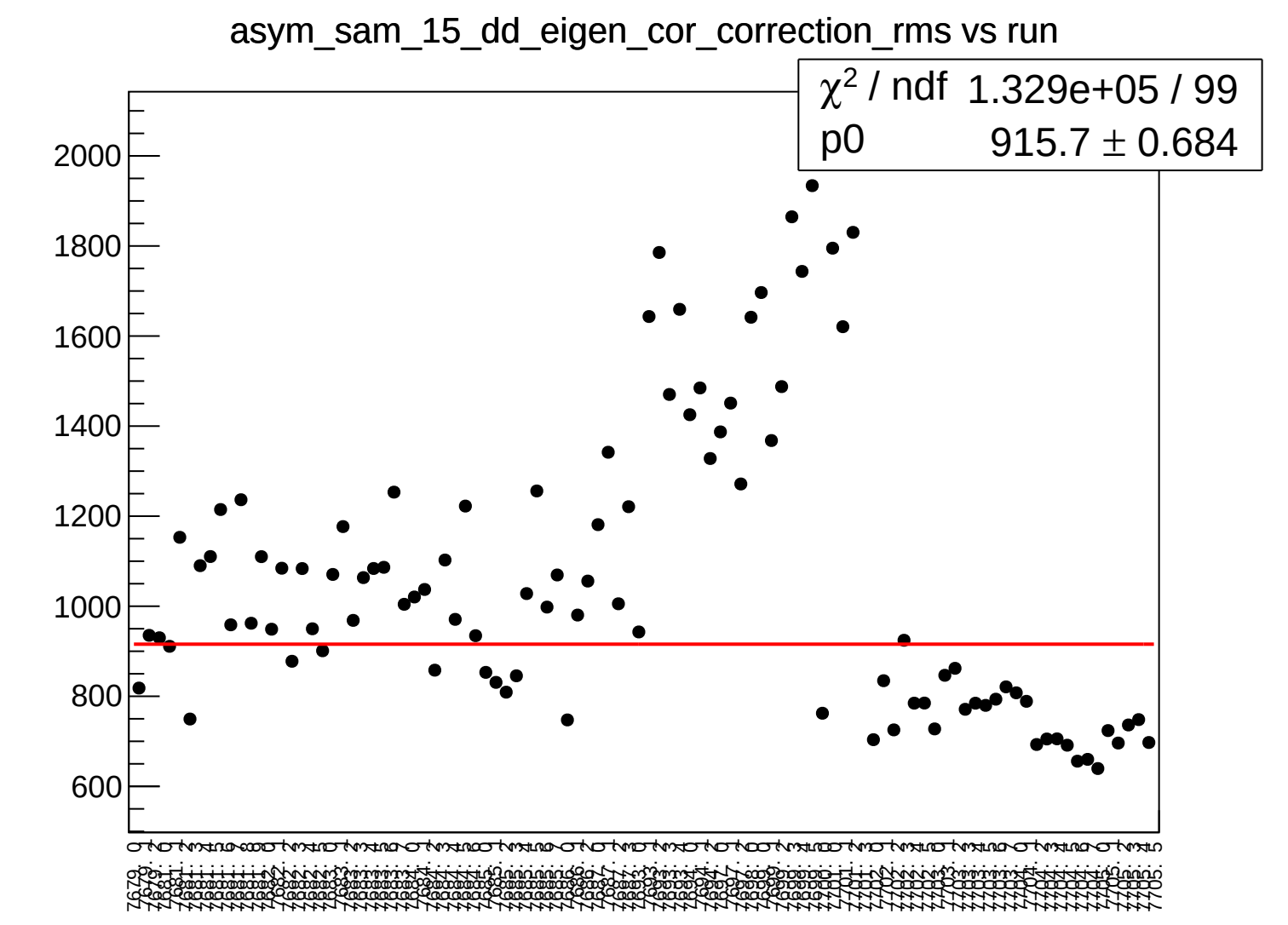

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 79.56 / 99
p0 −718.5 ± 967.3
40000
20000
0
−20000
−40000
pull
Entries 100
Mean 32.06
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 100
Mean 0.02328
Std Dev 0.8916
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

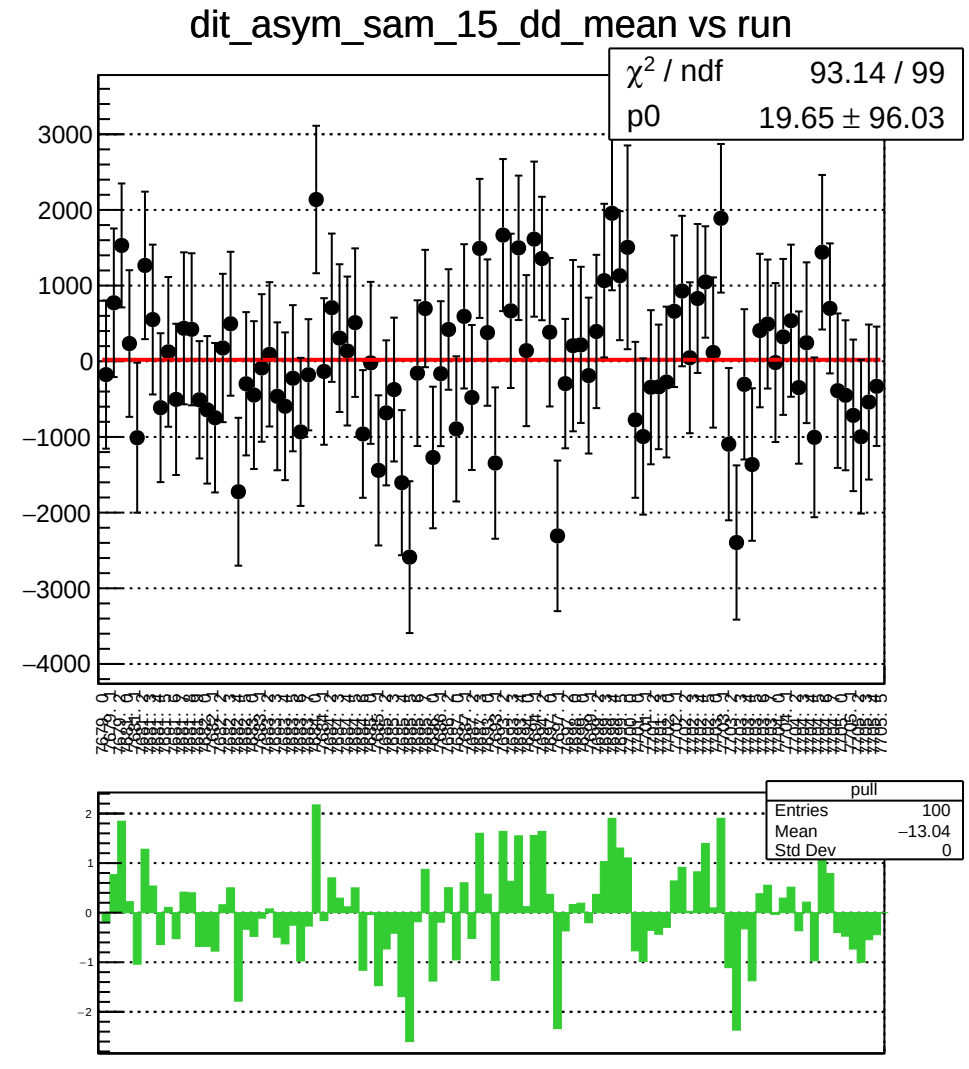

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 1.329e+05 / 99
p0 915.7 ± 0.684
2000
1800
1600
1400
1200
1000
800
600

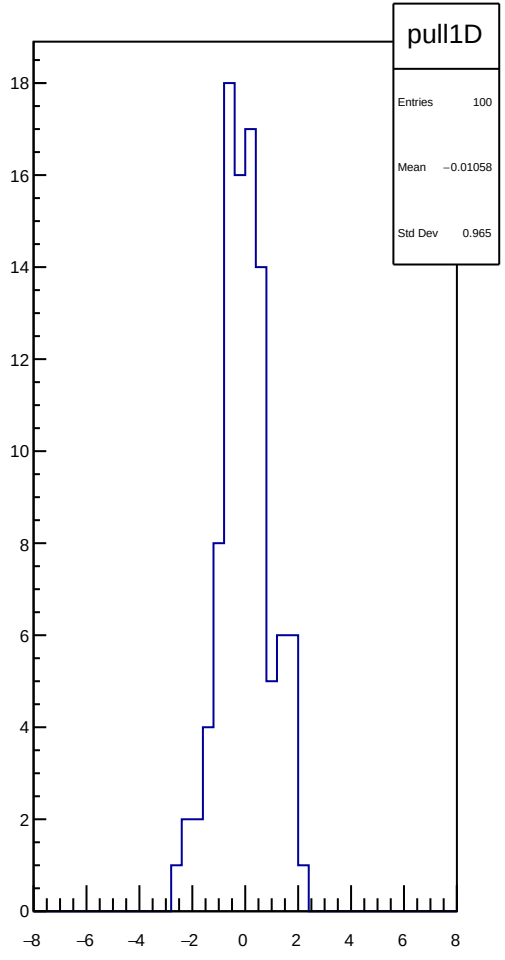

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 96 / 99
p0 2.141 ± 89.48
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 100
Mean 78.84
Std Dev 69.61
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.009107
Std Dev 0.9797
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

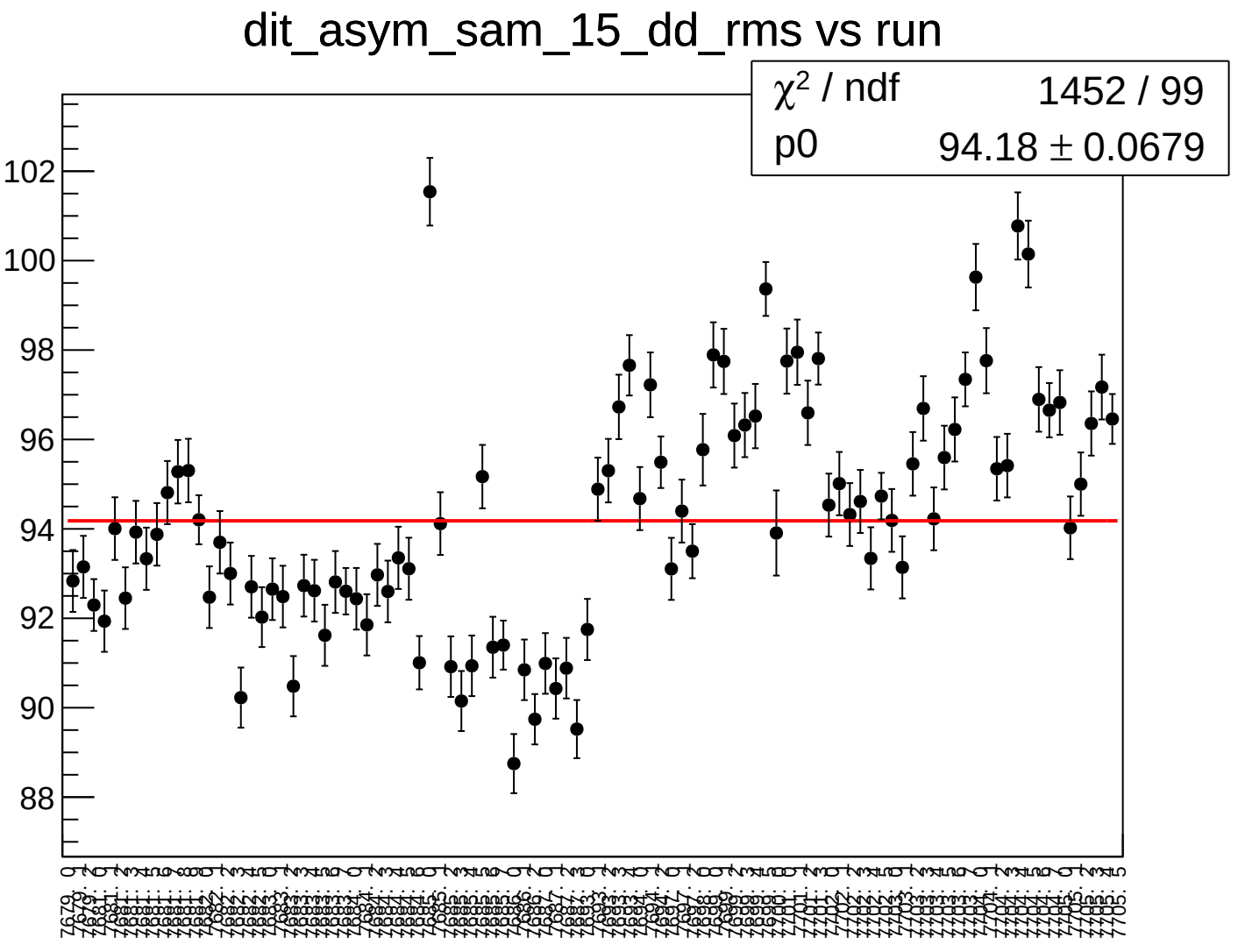

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 1358 / 99
p0 87.76 ± 0.06327
96
94
92
90
88
86
84
82

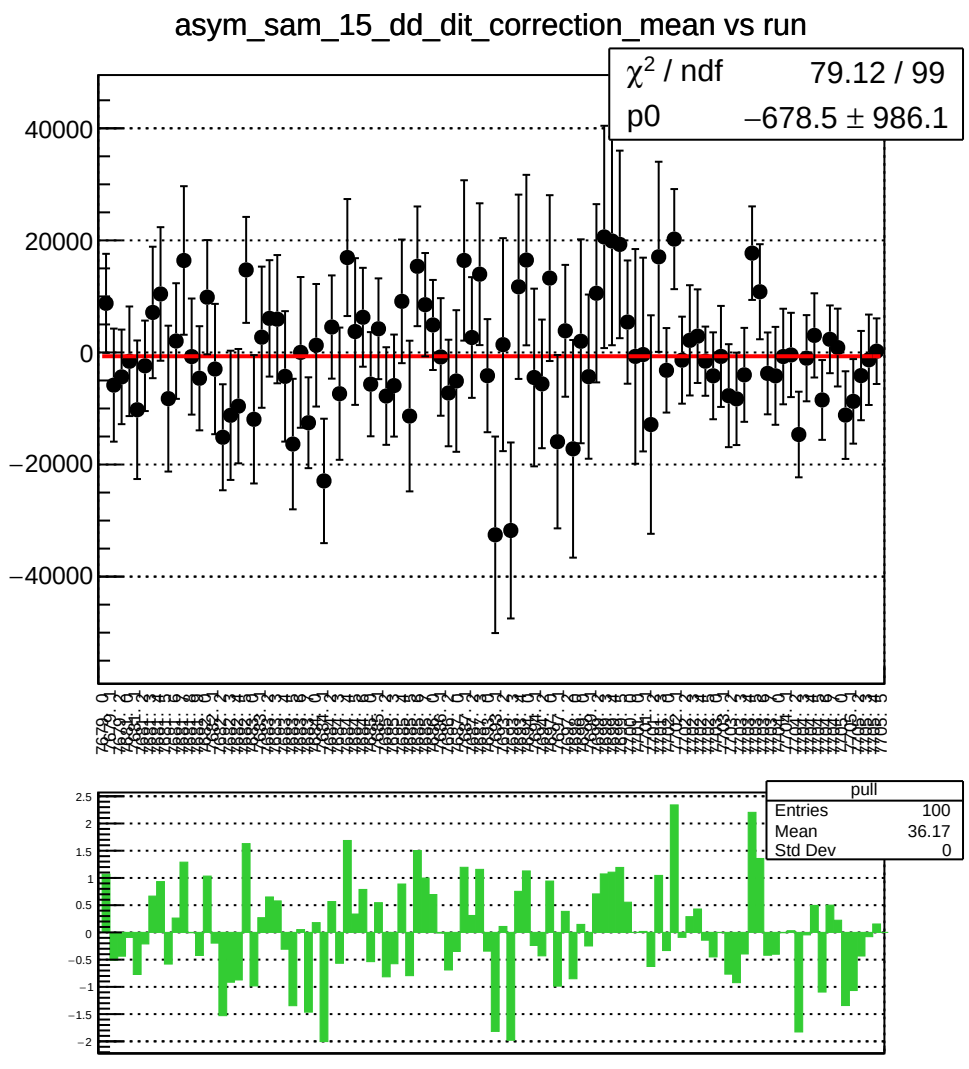

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 79.56 / 99
p0 −718.5 ± 967.3
40000
20000
0
−20000
−40000
pull
Entries 100
Mean 32.06
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 100
Mean 0.02328
Std Dev 0.8916
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

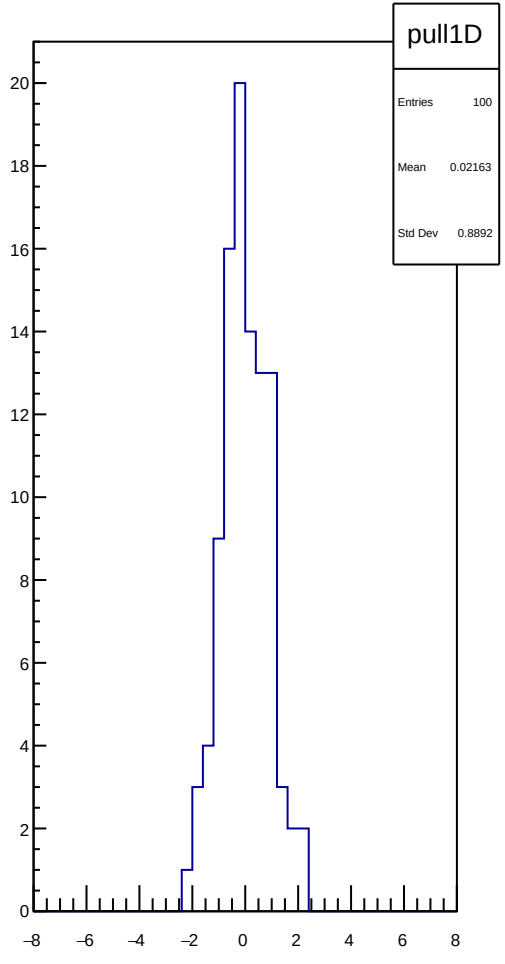

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.329e+05 / 99
p0 915.7 ± 0.684
2000
1800
1600
1400
1200
1000
800
600

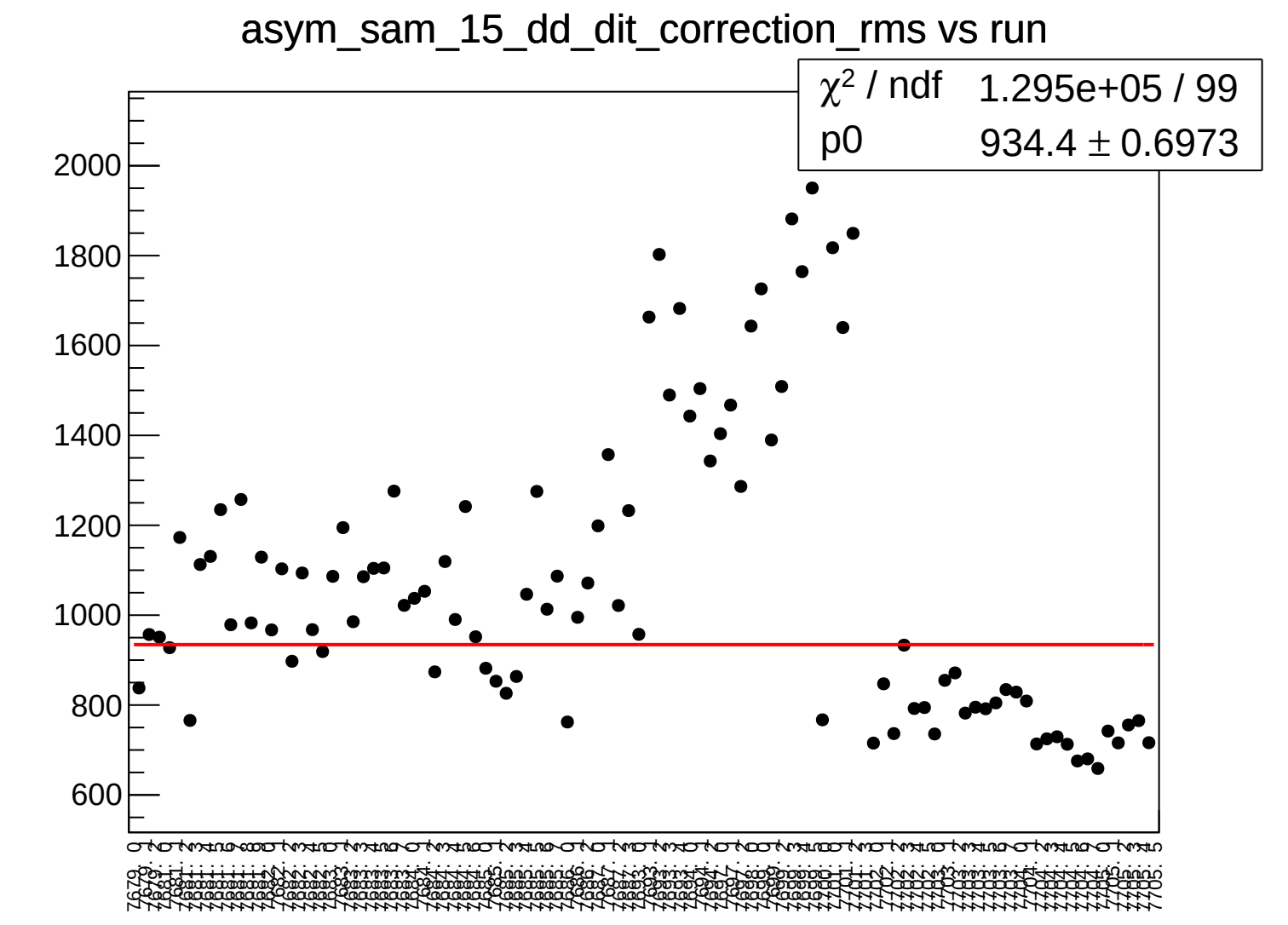

dit_asym_sam_15_dd_mean vs run
χ^2 / ndf 93.14 / 99
p0 19.65 ± 96.03
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 100
Mean −13.04
Std Dev 0
2
1
0
−1
−2

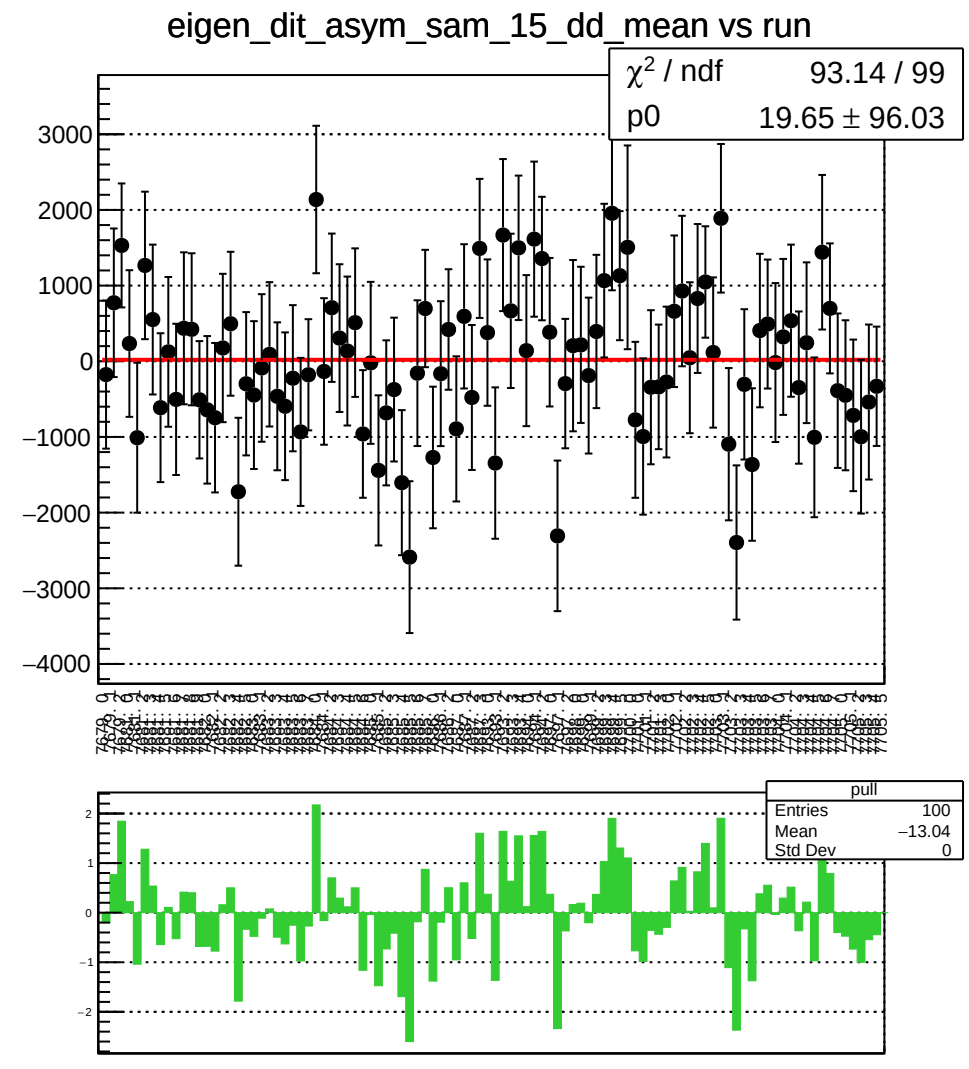

pull1D
Entries 100
Mean −0.01058
Std Dev 0.965
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

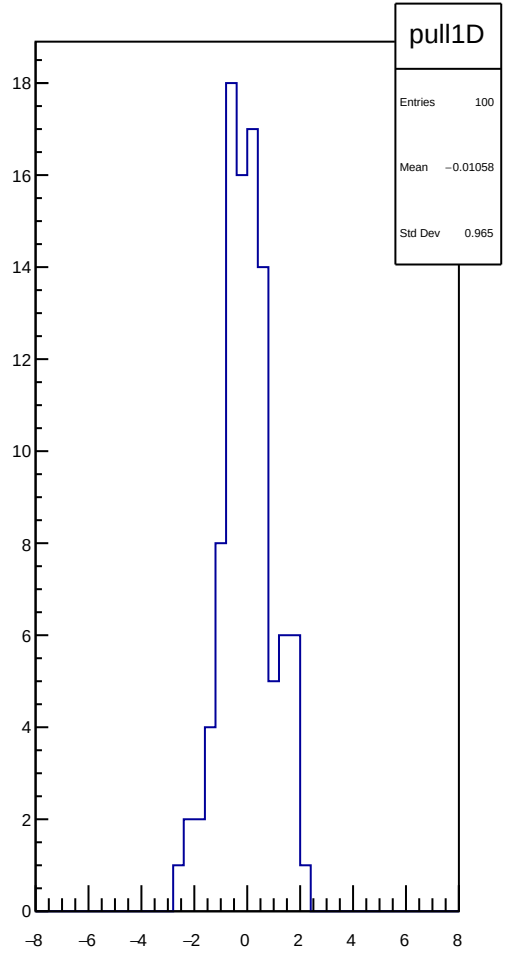

dit_asym_sam_15_dd_rms vs run
χ² / ndf 1452 / 99
p0 94.18 ± 0.0679
102
100
98
96
94
92
90
88

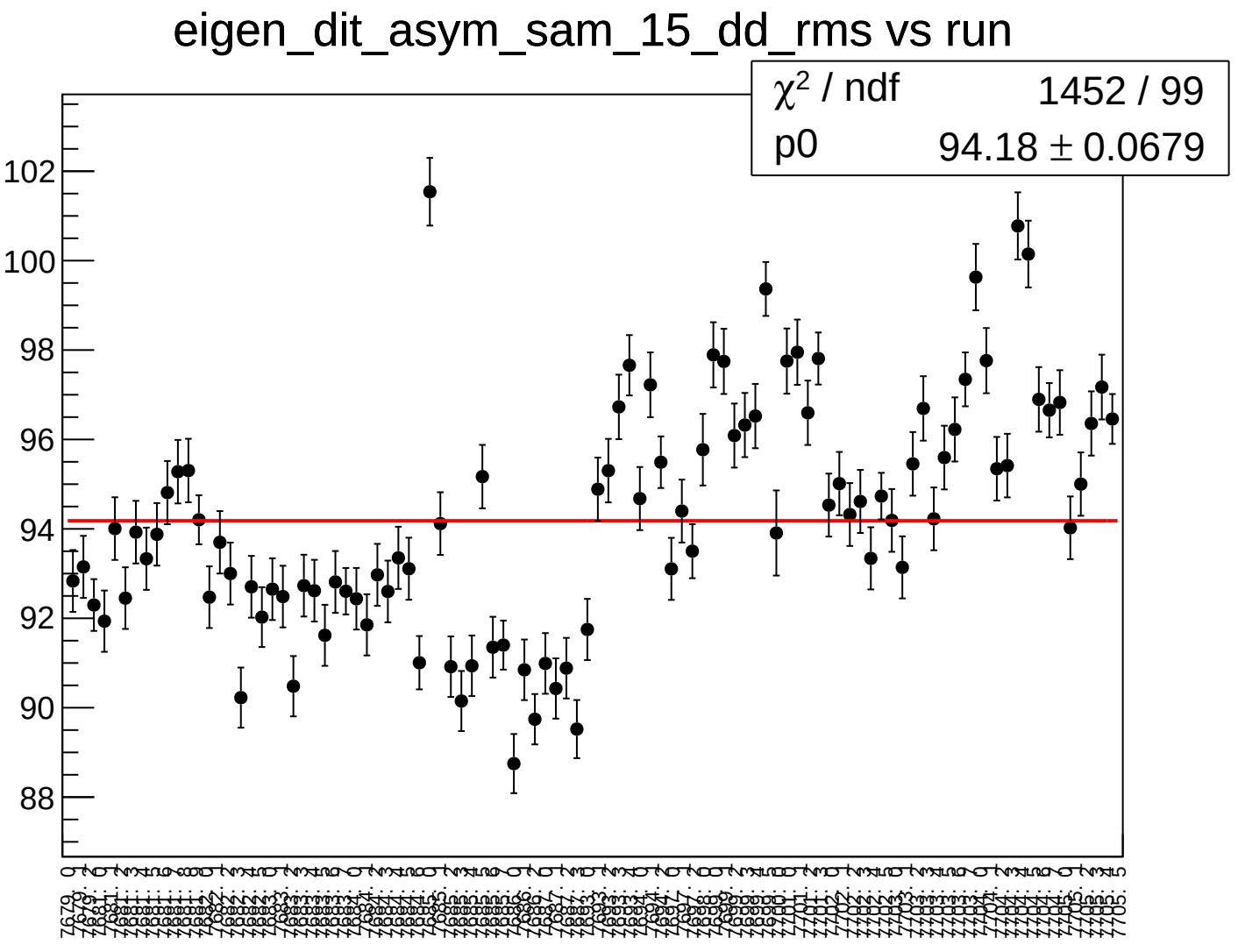

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 79.12 / 99
p0 −678.5 ± 986.1
40000
20000
0
−20000
−40000
pull
Entries 100
Mean 36.17
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

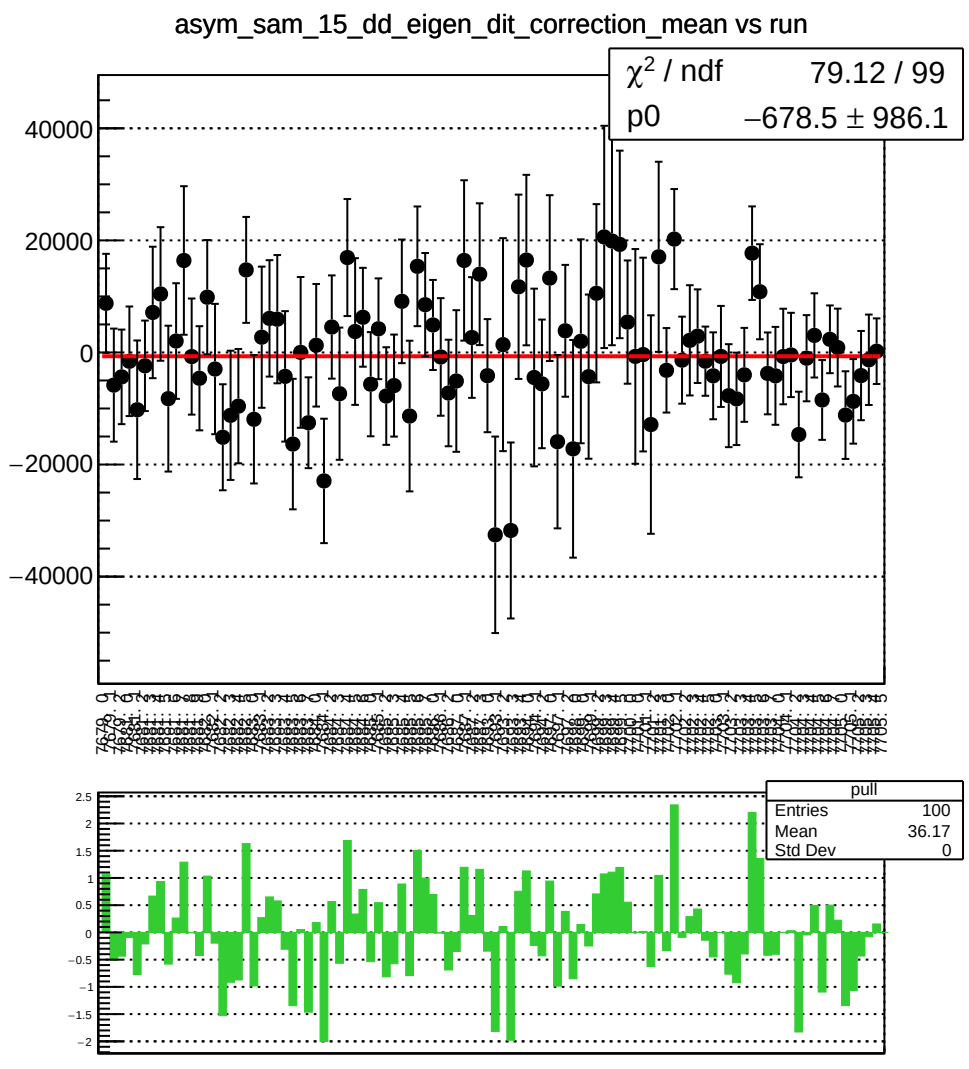

pull1D
Entries 100
Mean 0.02163
Std Dev 0.8892
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

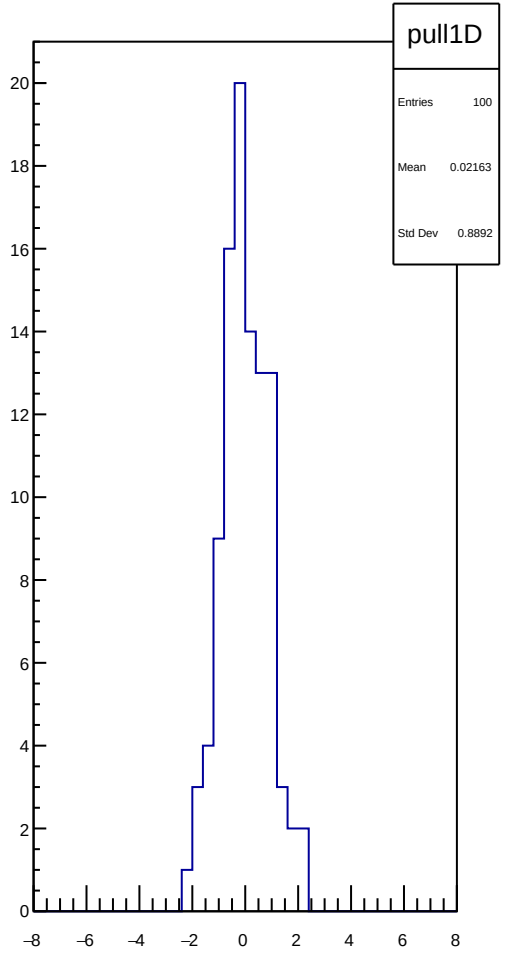

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 1.295e+05 / 99
p0 934.4 ± 0.6973
2000
1800
1600
1400
1200
1000
800
600

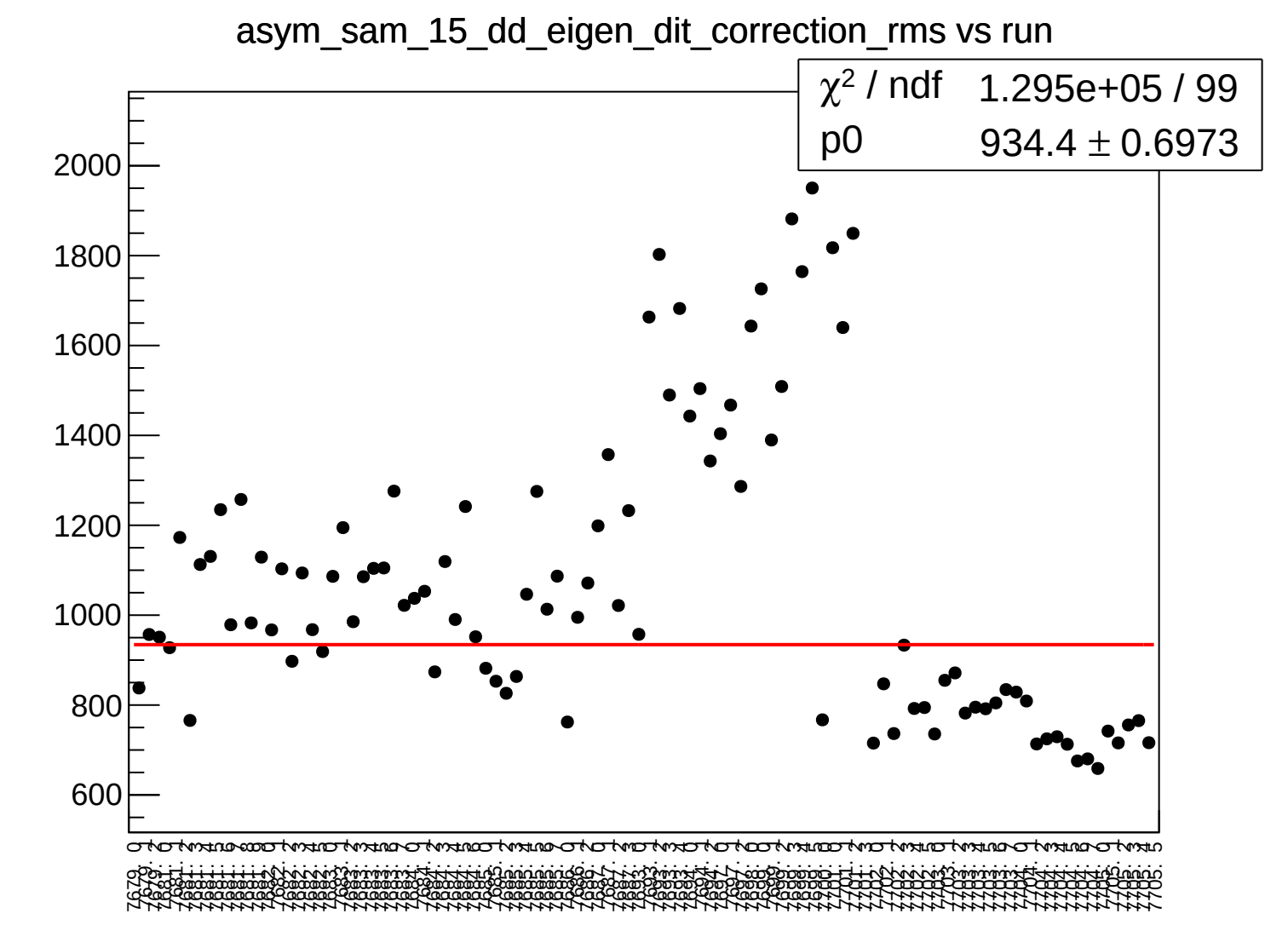

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 93.14 / 99
p0 19.65 ± 96.03
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 100
Mean −13.04
Std Dev 0
2
1
0
−1
−2

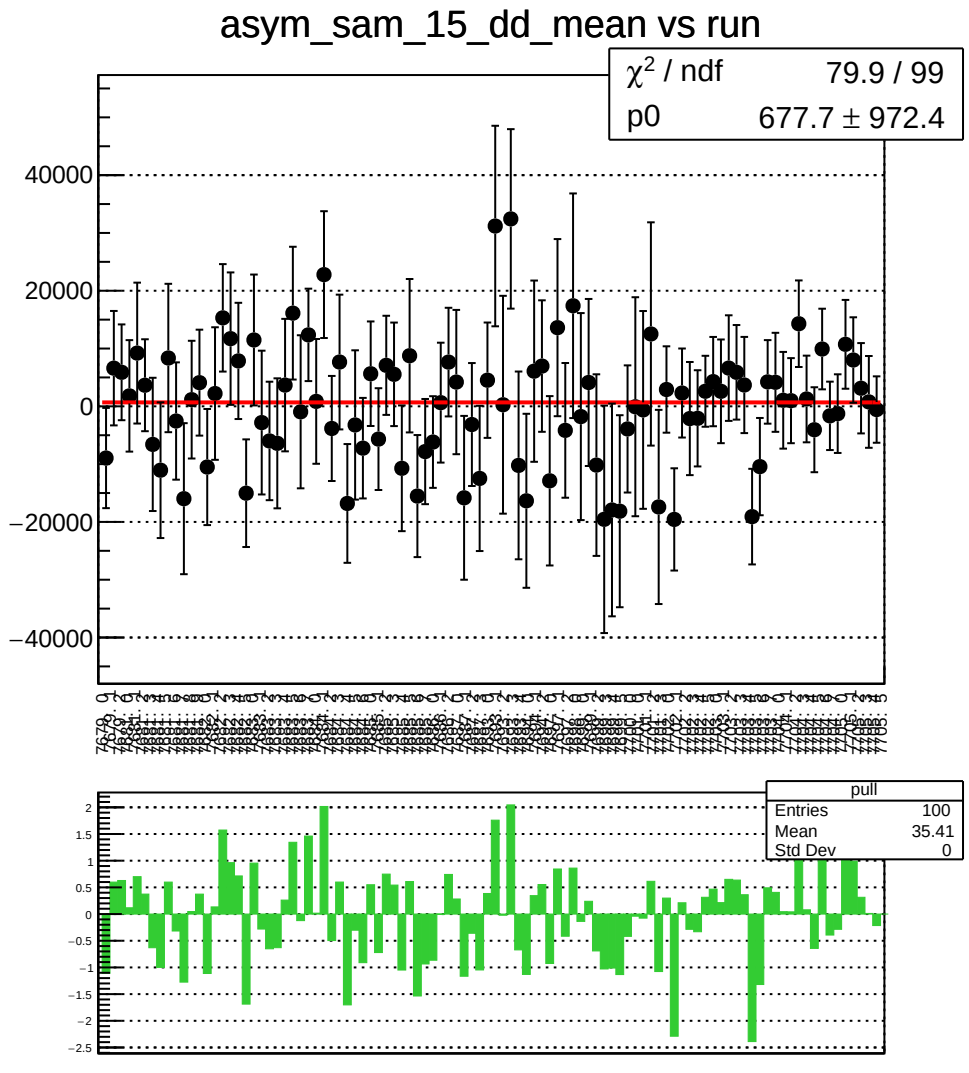

pull1D
Entries 100
Mean −0.01058
Std Dev 0.965
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

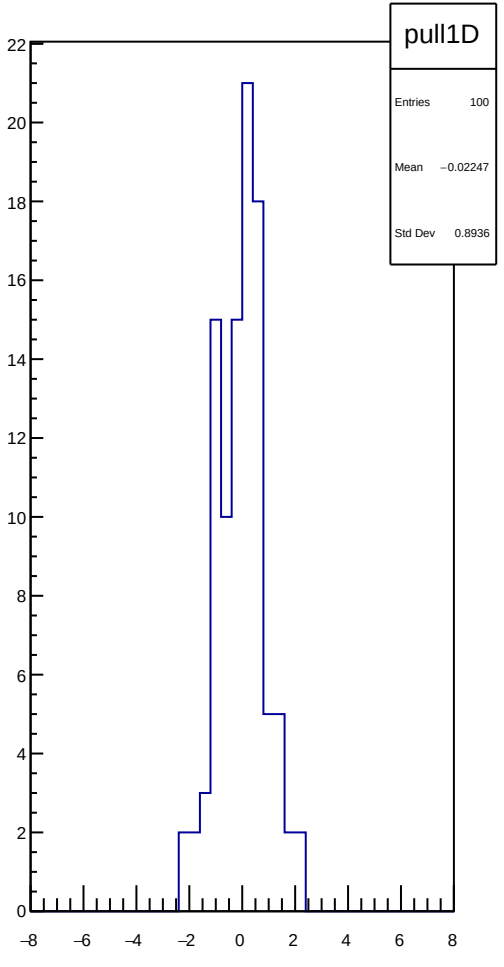

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 1452 / 99
p0 94.18 ± 0.0679
102
100
98
96
94
92
90
88

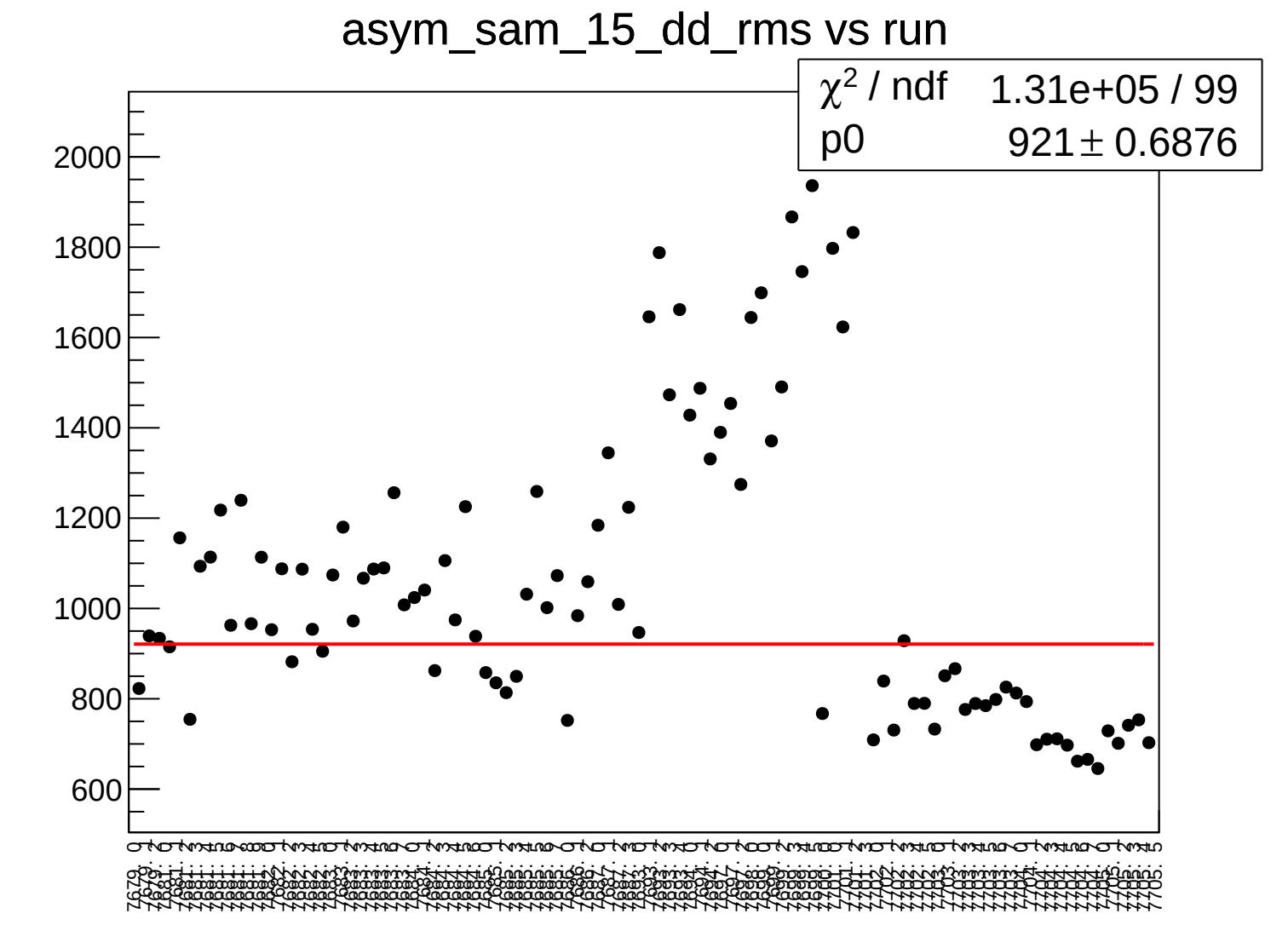

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.12 / 99
p0 −678.5 ± 986.1
40000
20000
0
−20000
−40000
pull
Entries 100
Mean 36.17
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

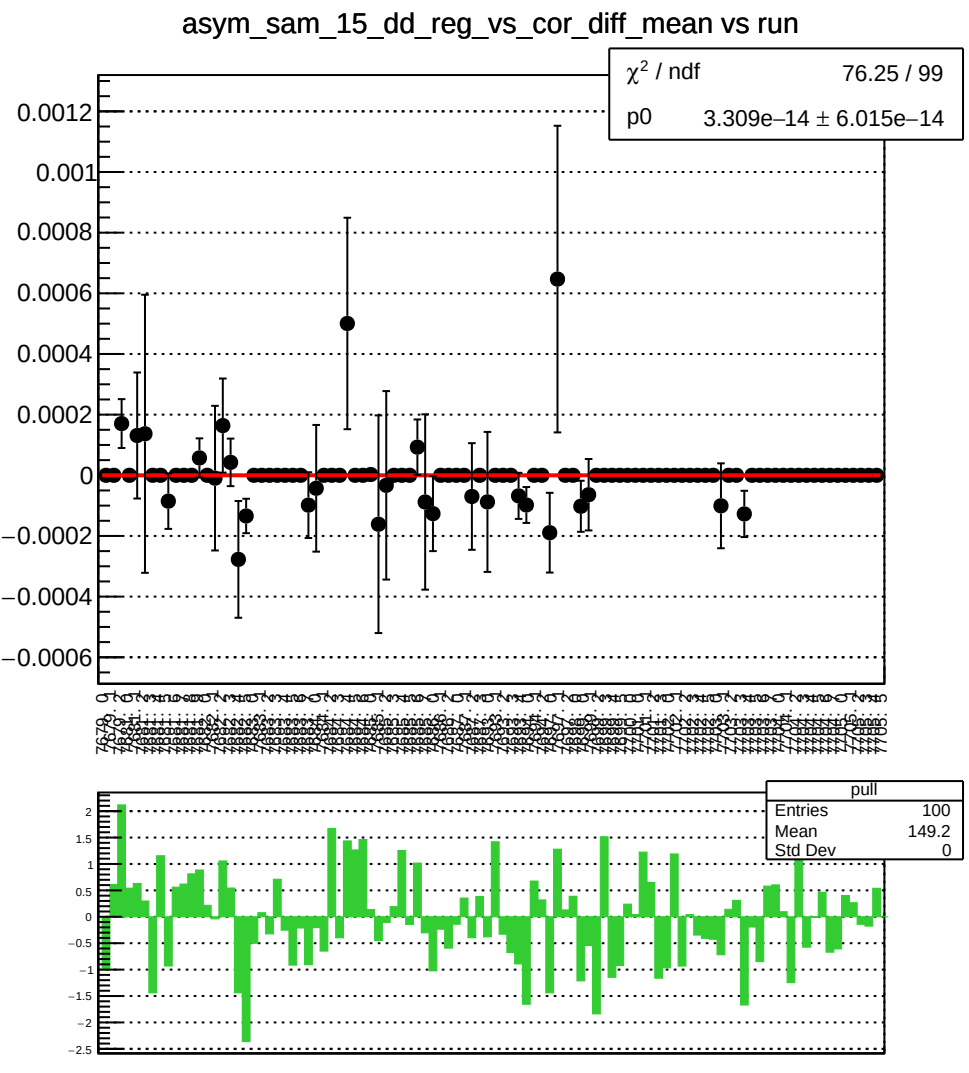

pull1D
Entries 100
Mean 0.02163
Std Dev 0.8892
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

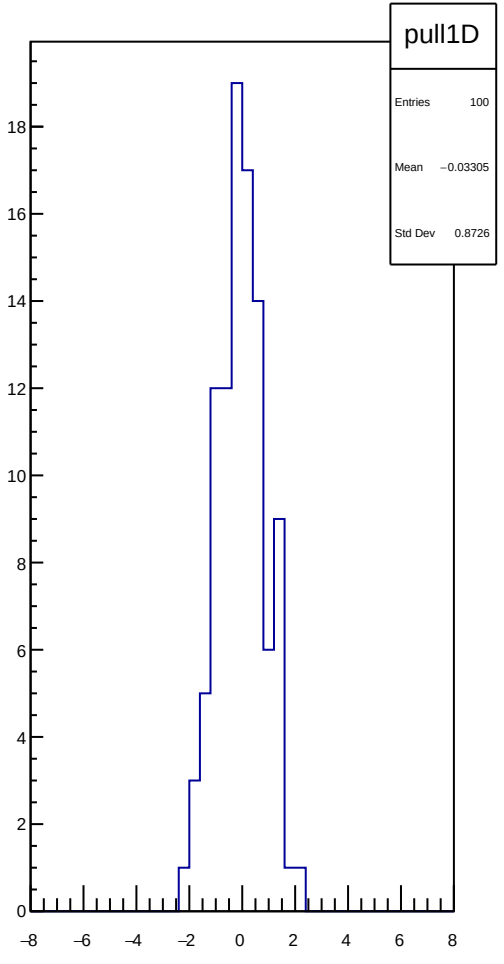

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.295e+05 / 99
p0 934.4 ± 0.6973
2000
1800
1600
1400
1200
1000
800
600

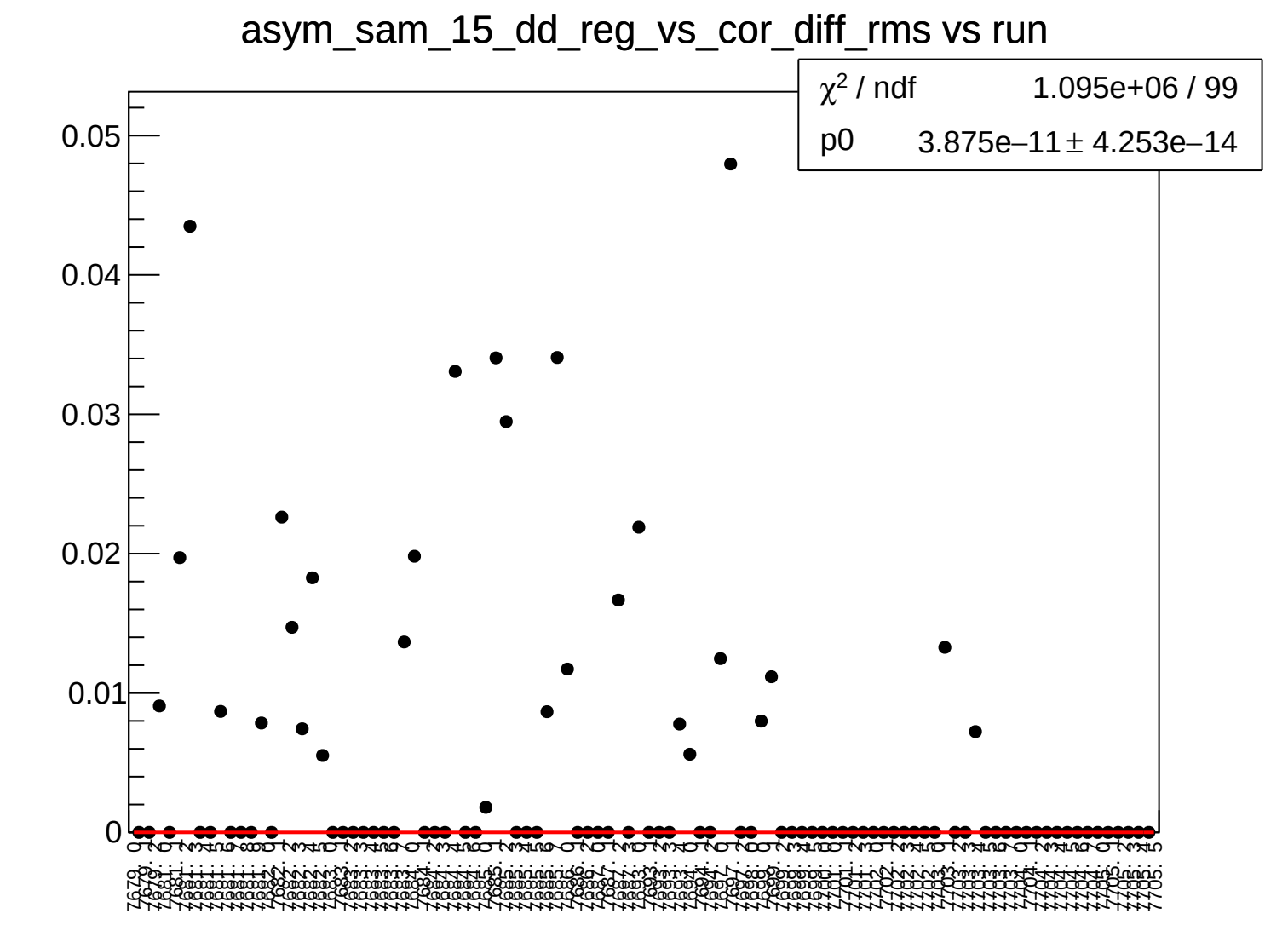

asym_sam_15_dd_mean vs run
χ² / ndf 79.9 / 99
p0 677.7 ± 972.4
40000
20000
0
−20000
−40000
pull
Entries 100
Mean 35.41
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

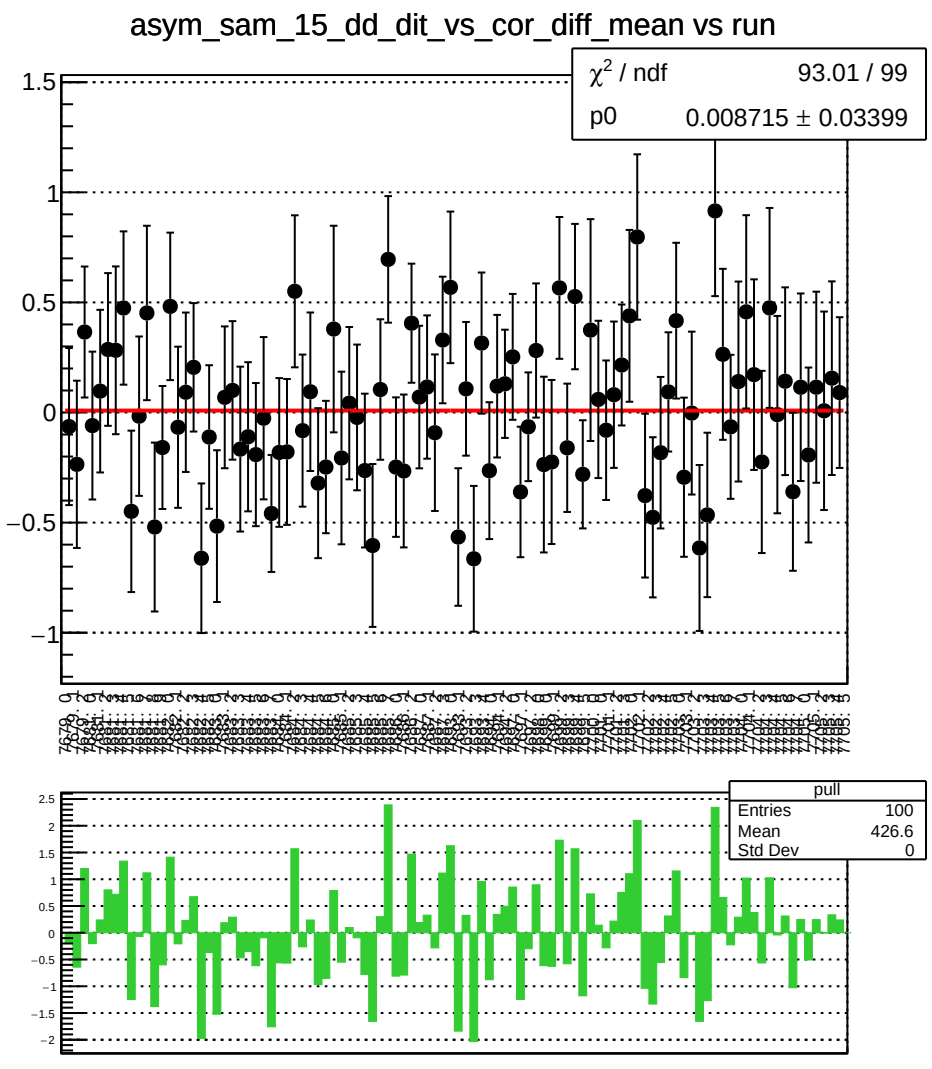

pull1D
Entries 100
Mean −0.02247
Std Dev 0.8936
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

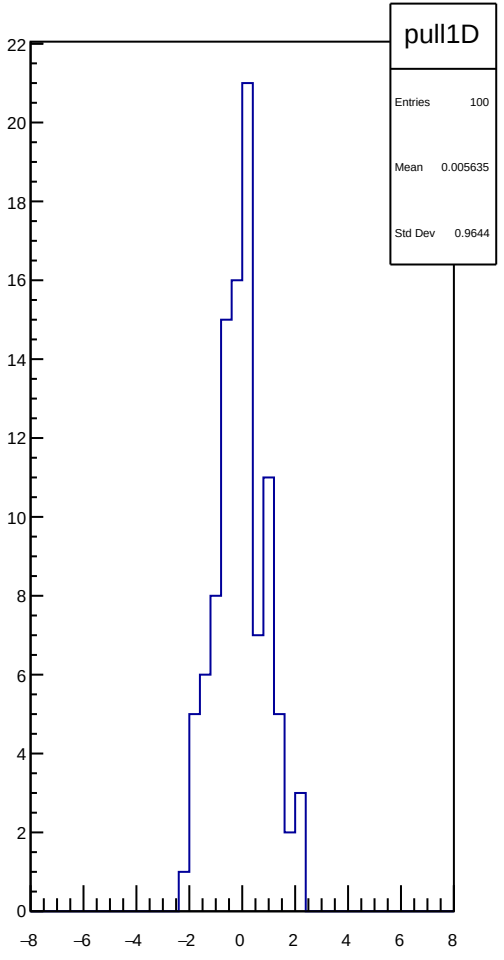

asym_sam_15_dd_rms vs run
χ^2 / ndf 1.31e+05 / 99
p0 921 ± 0.6876
2000
1800
1600
1400
1200
1000
800
600

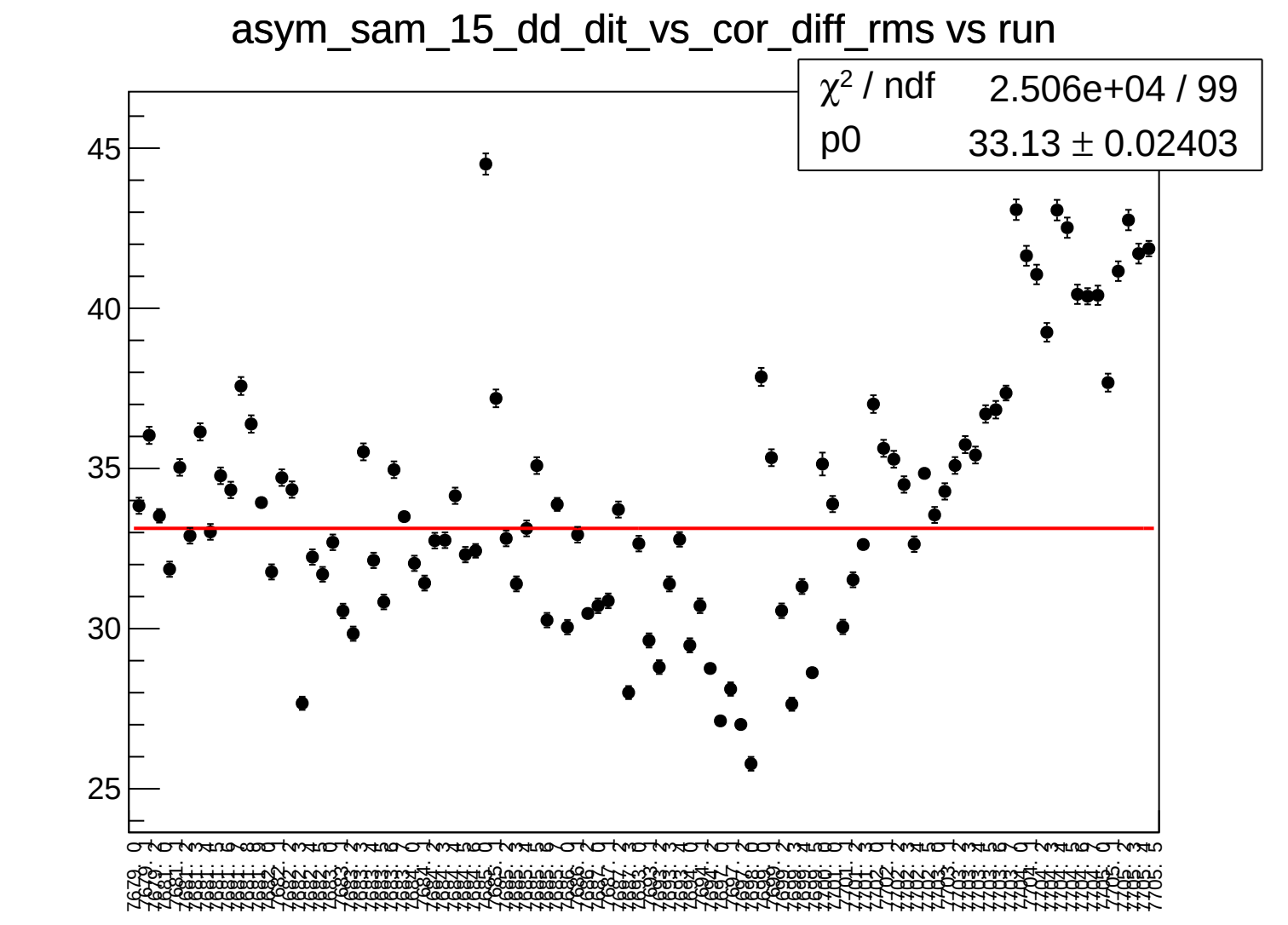

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 76.25 / 99
p0 3.309e−14 ± 6.015e−14
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
pull
Entries 100
Mean 149.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

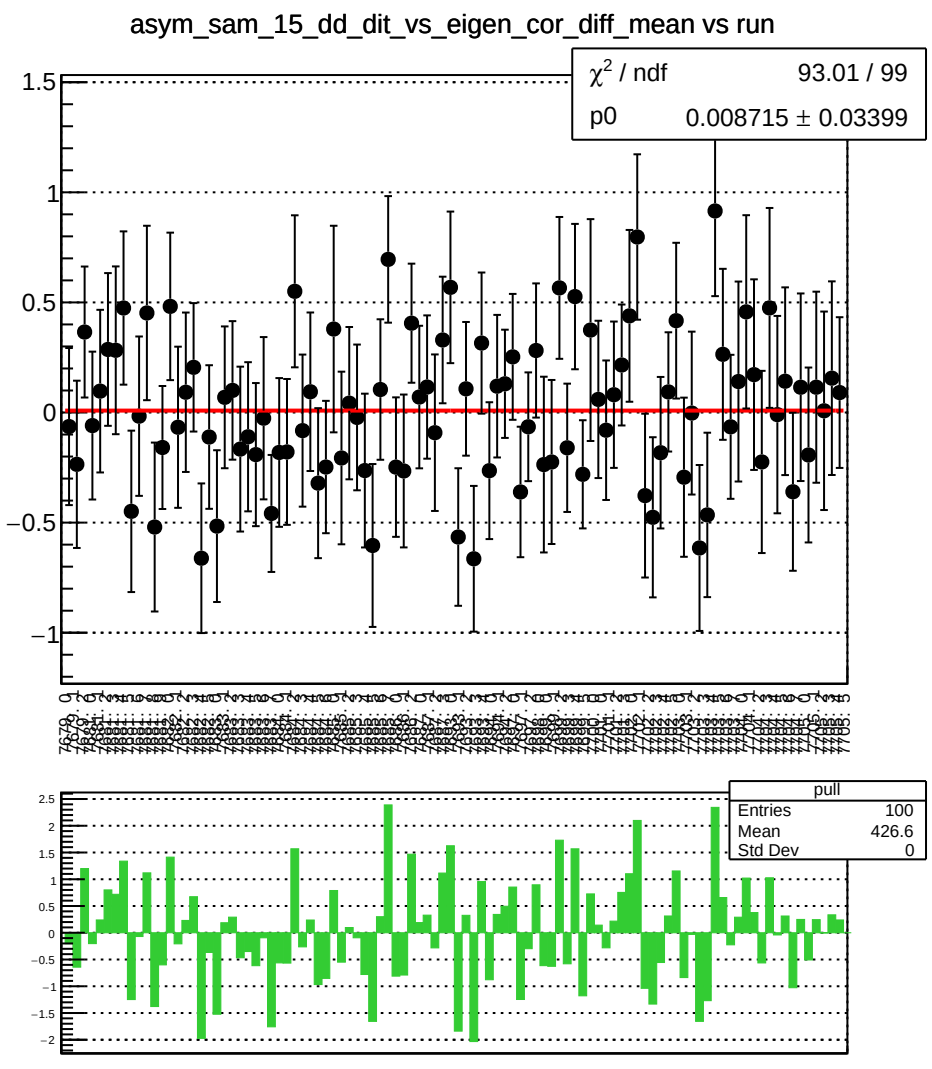

pull1D
Entries 100
Mean −0.03305
Std Dev 0.8726
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

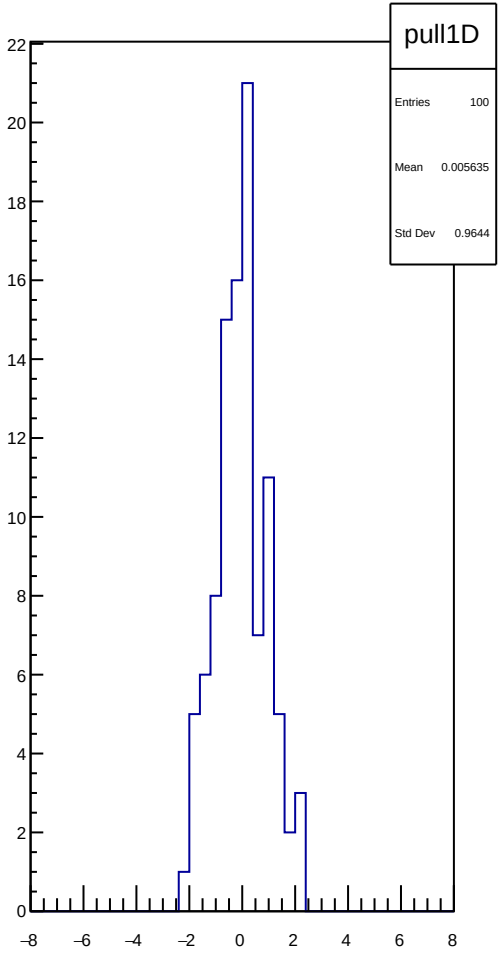

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.095e+06 / 99
p0 3.875e−11 ± 4.253e−14
0.05
0.04
0.03
0.02
0.01
0

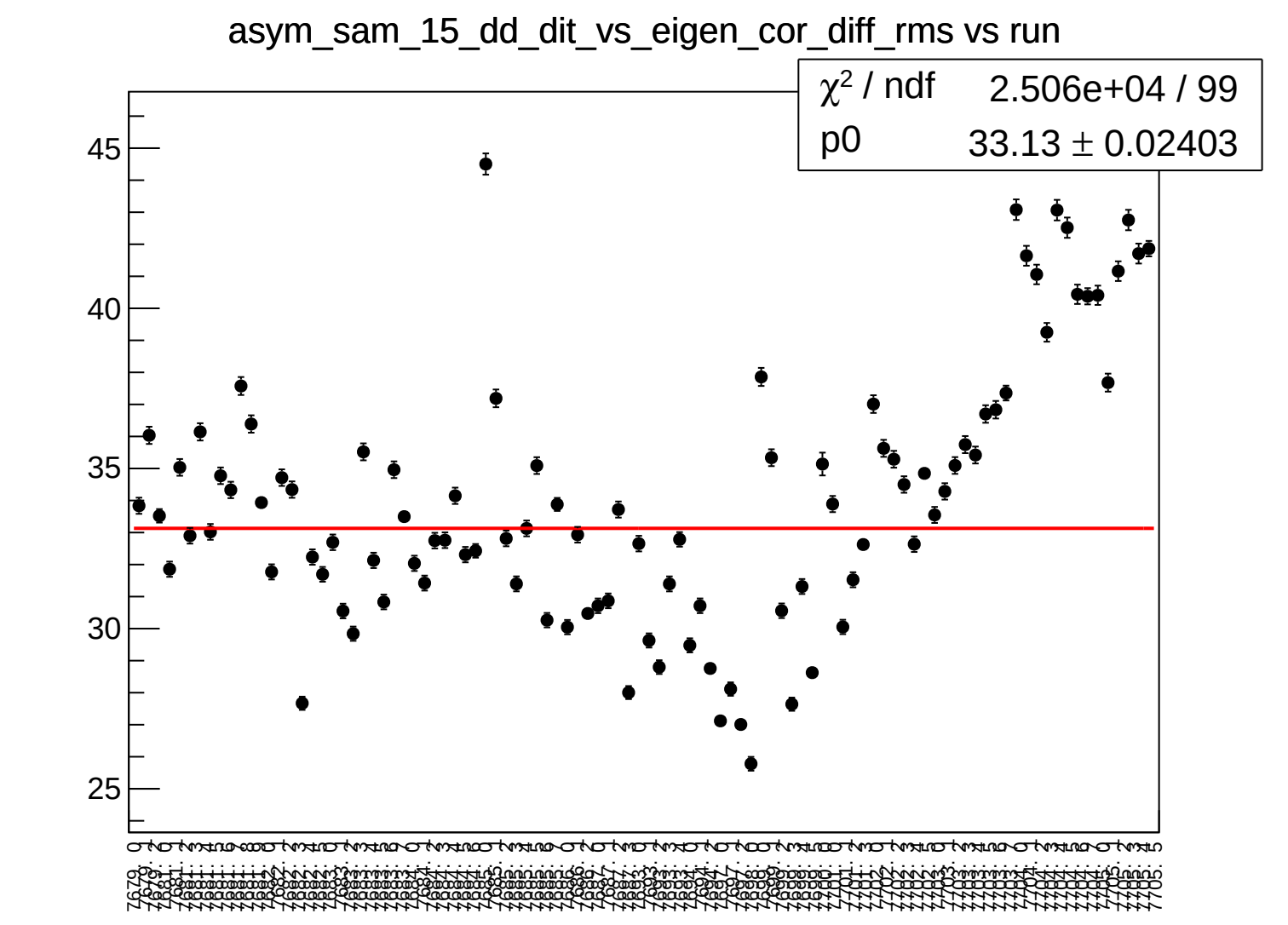

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.01 / 99
p0 0.008715 ± 0.03399
pull
Entries 100
Mean 426.6
Std Dev 0

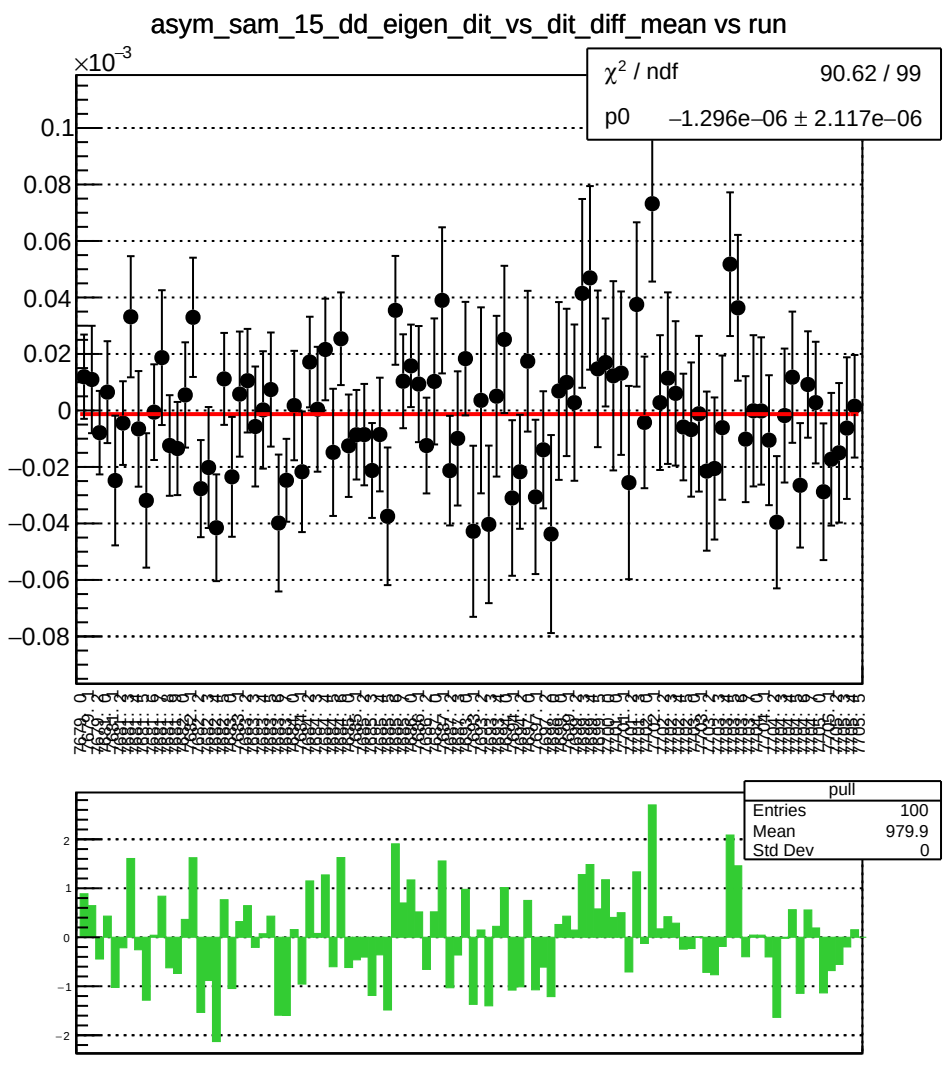

pull1D
Entries 100
Mean 0.005635
Std Dev 0.9644

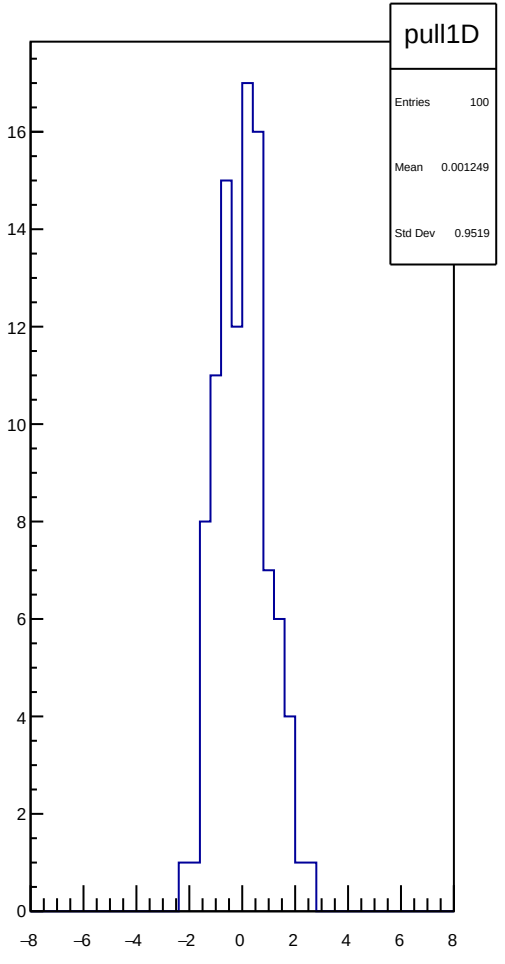

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.506e+04 / 99
p0 33.13 ± 0.02403
45
40
35
30
25

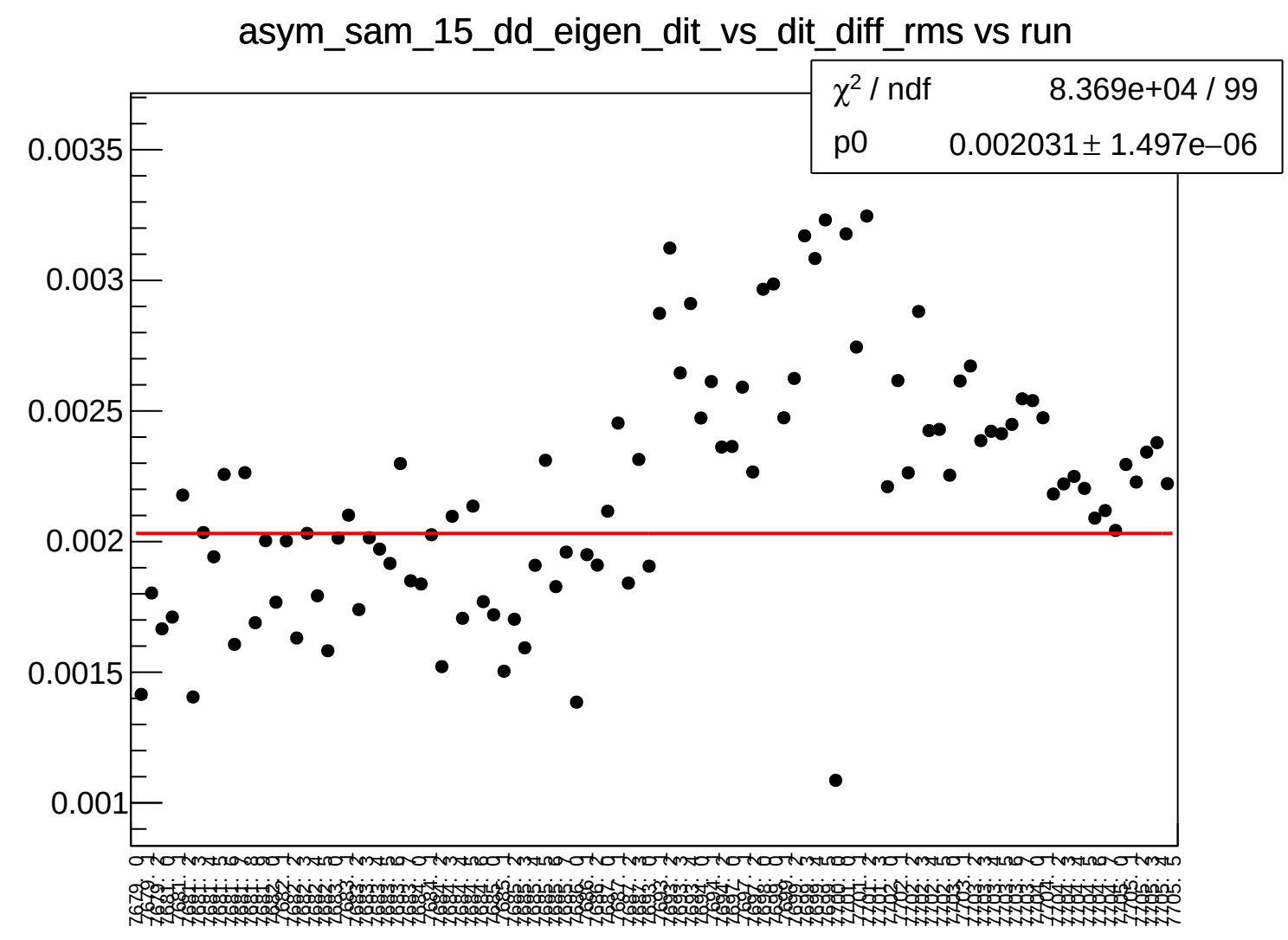

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.01 / 99
p0 0.008715 ± 0.03399
pull
Entries 100
Mean 426.6
Std Dev 0

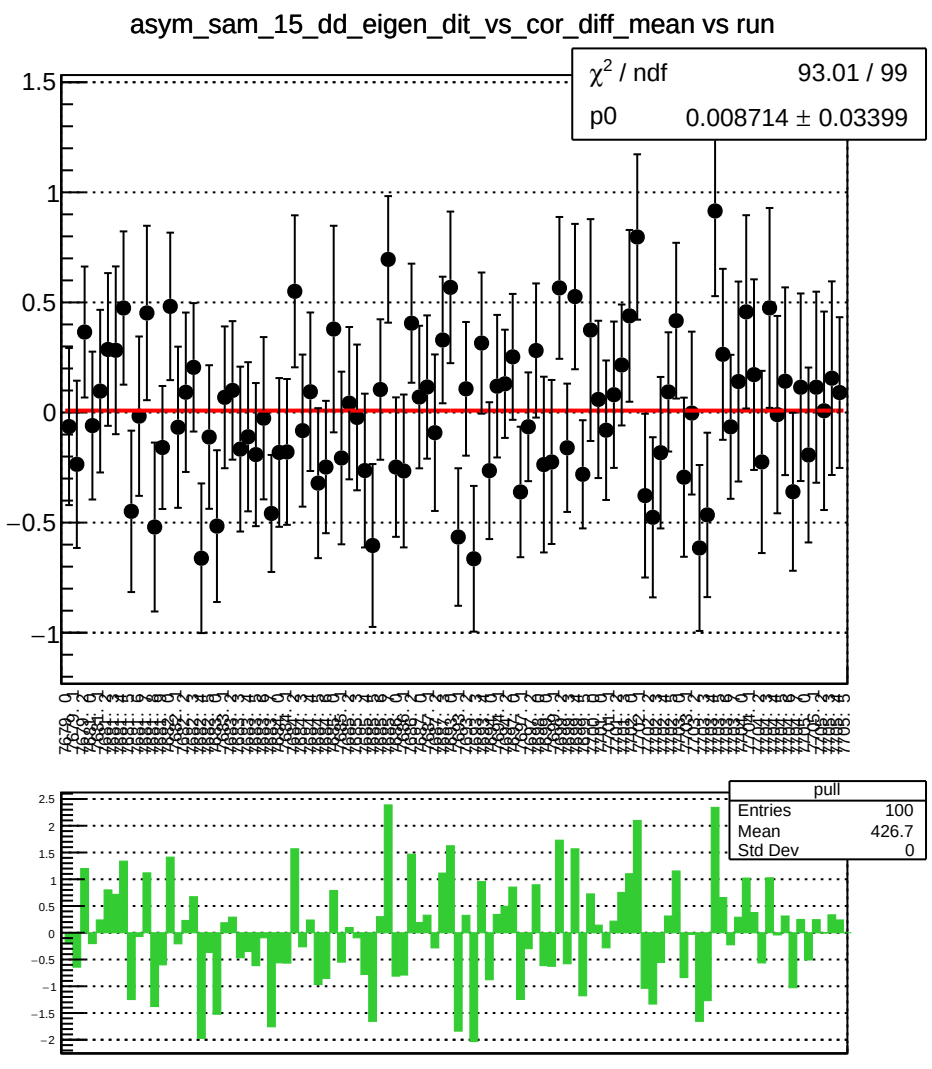

pull1D
Entries 100
Mean 0.005635
Std Dev 0.9644

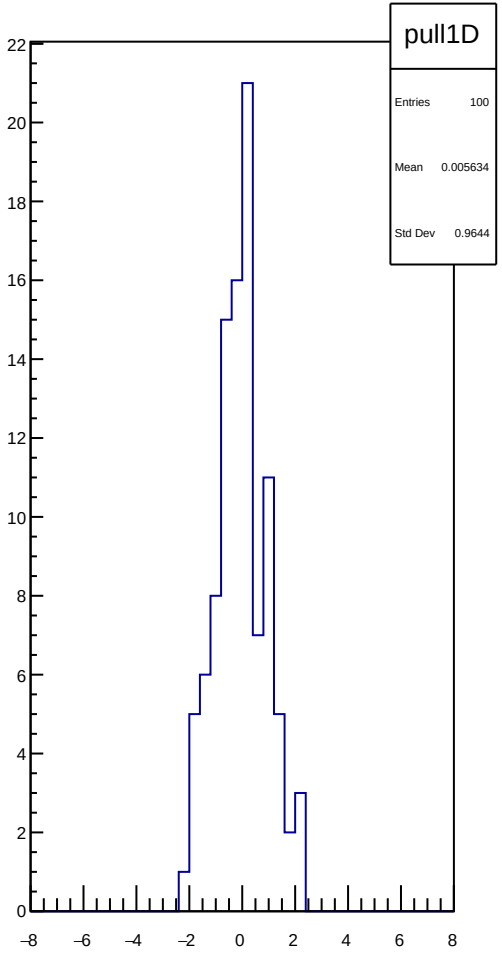

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.506e+04 / 99
p0 33.13 ± 0.02403
45
40
35
30
25

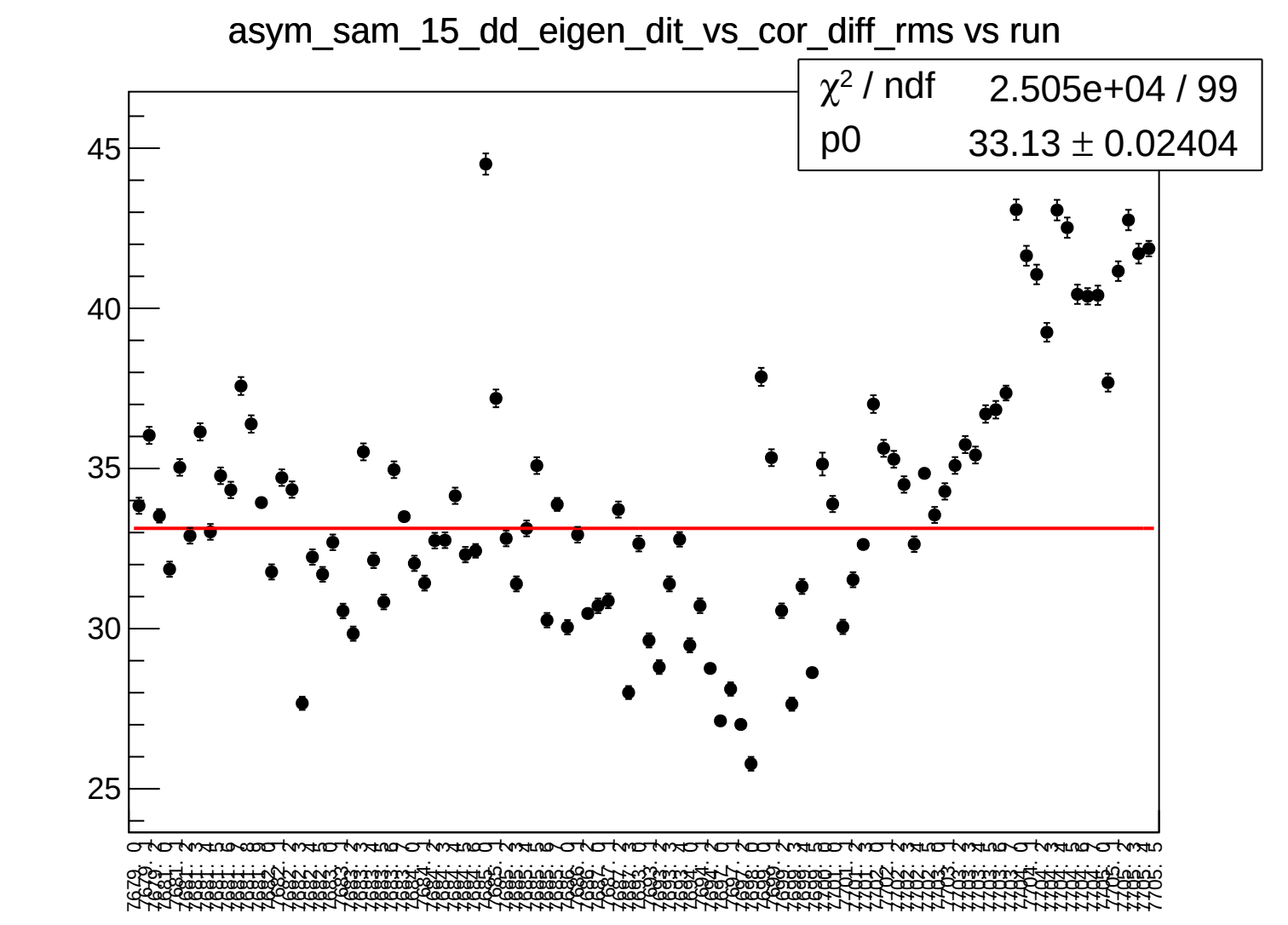

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.62 / 99
p0 −1.296e−06 ± 2.117e−06
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 100
Mean 979.9
Std Dev 0
2
1
0
−1
−2

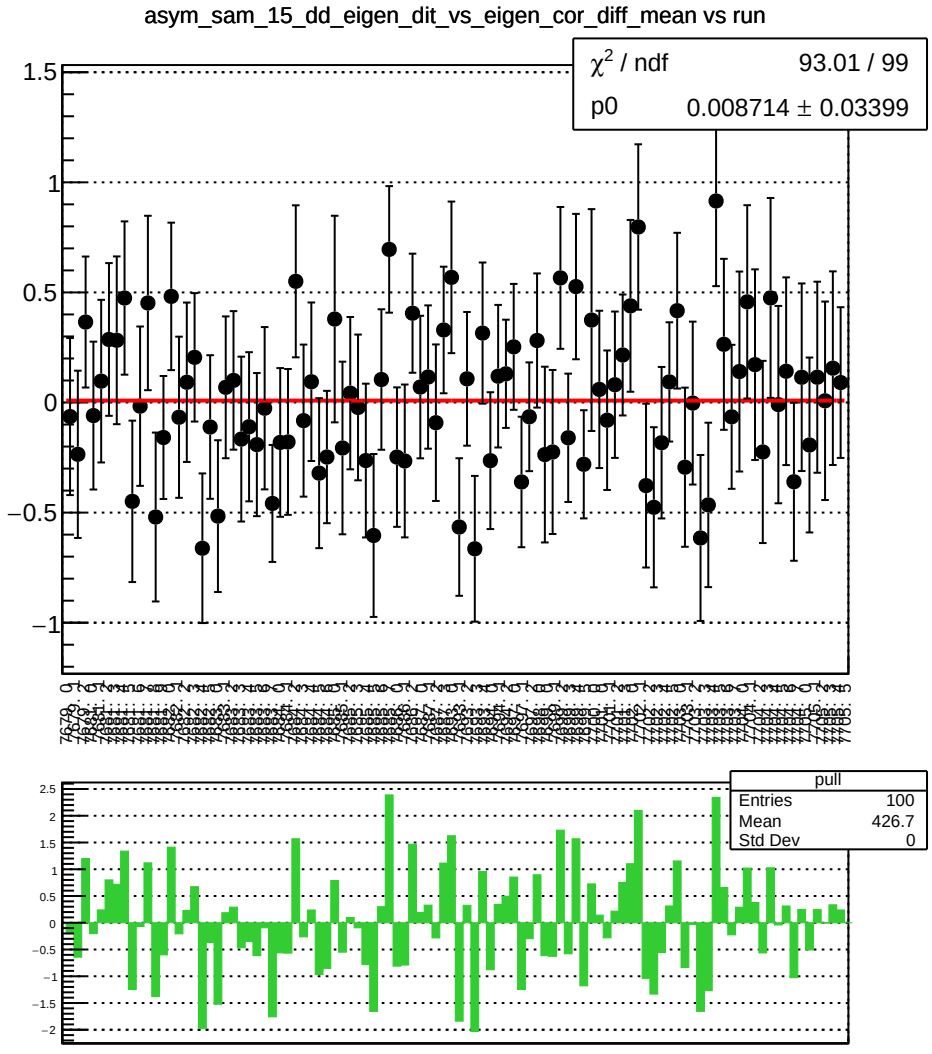

pull1D
Entries 100
Mean 0.001249
Std Dev 0.9519
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

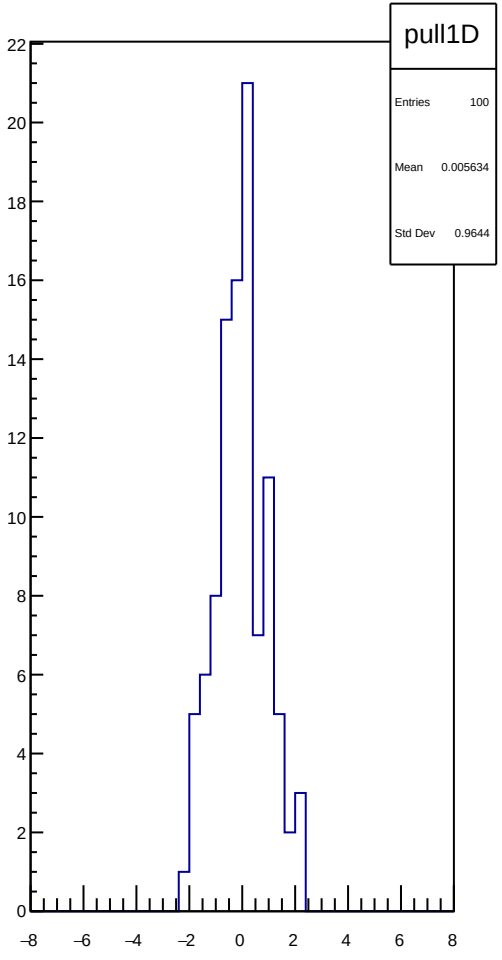

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.369e+04 / 99
p0 0.002031 ± 1.497e−06
0.0035
0.003
0.0025
0.002
0.0015
0.001

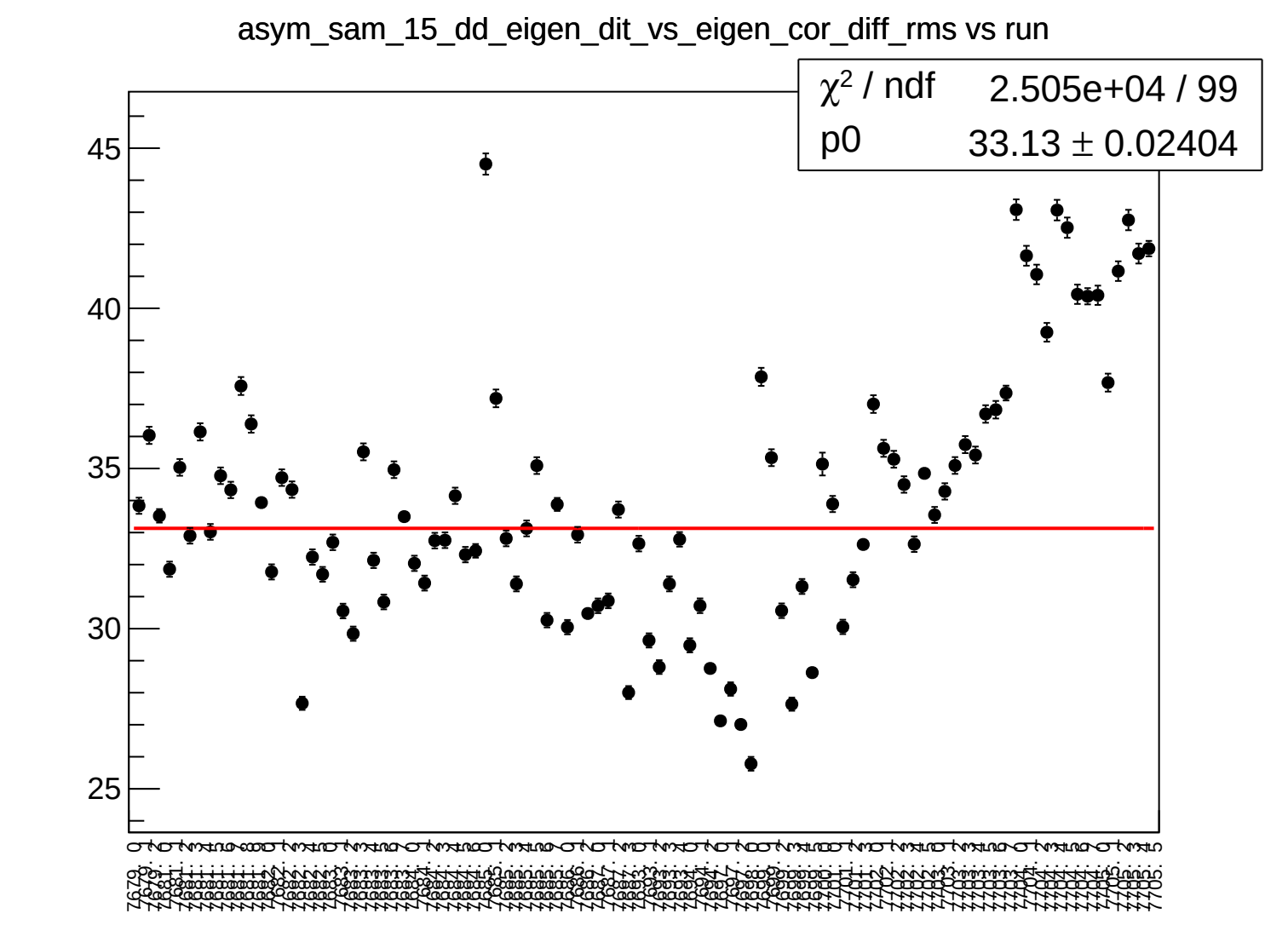

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.01 / 99
p0 0.008714 ± 0.03399
pull
Entries 100
Mean 426.7
Std Dev 0

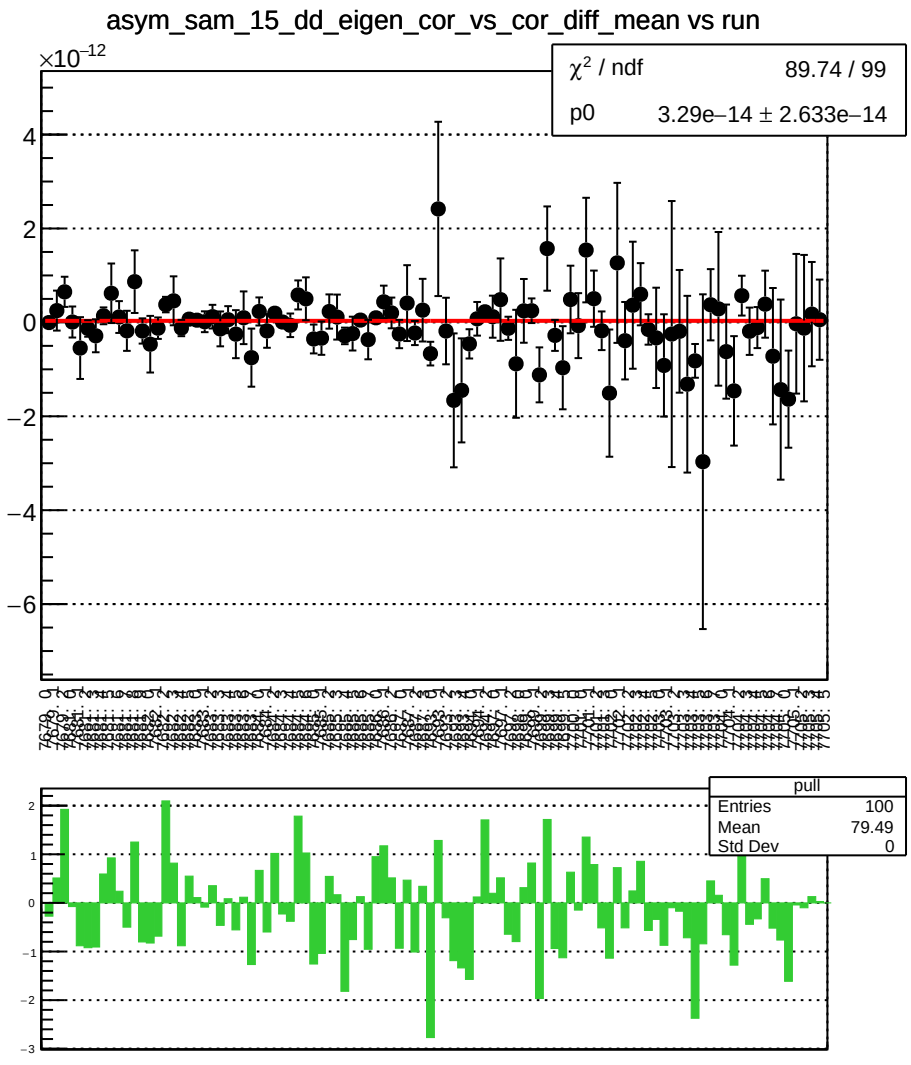

pull1D
Entries 100
Mean 0.005634
Std Dev 0.9644

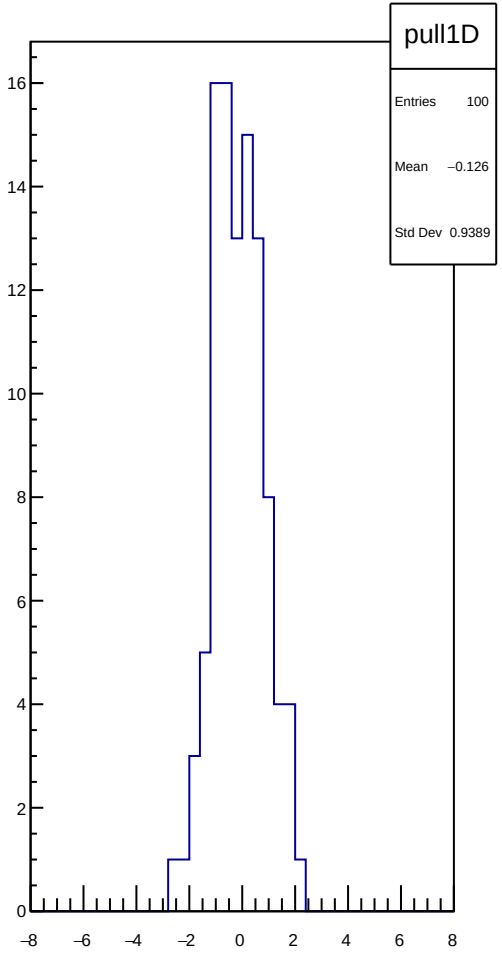

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.505e+04 / 99
p0 33.13 ± 0.02404
45
40
35
30
25

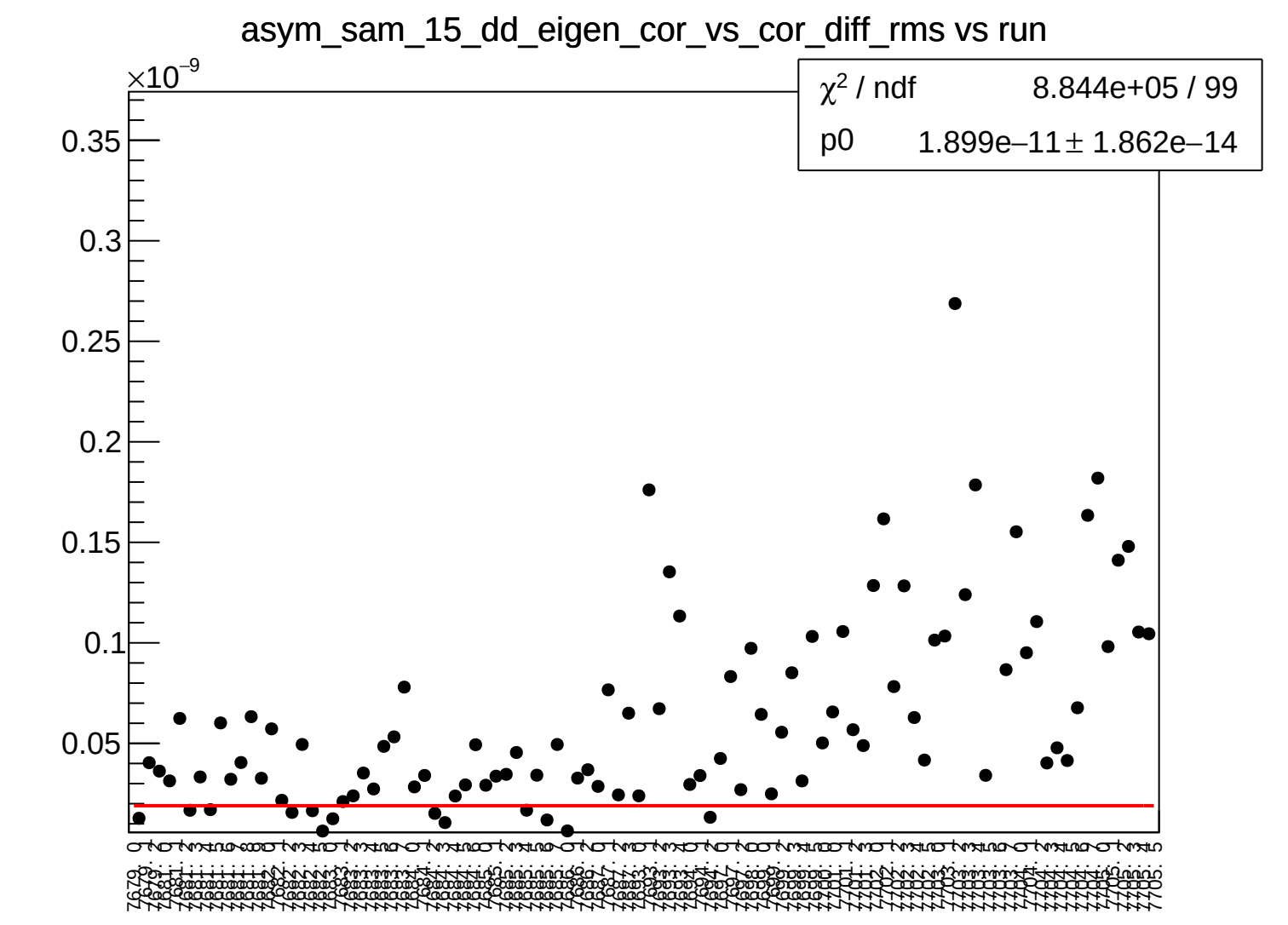

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.01 / 99
p0 0.008714 ± 0.03399
pull
Entries 100
Mean 426.7
Std Dev 0

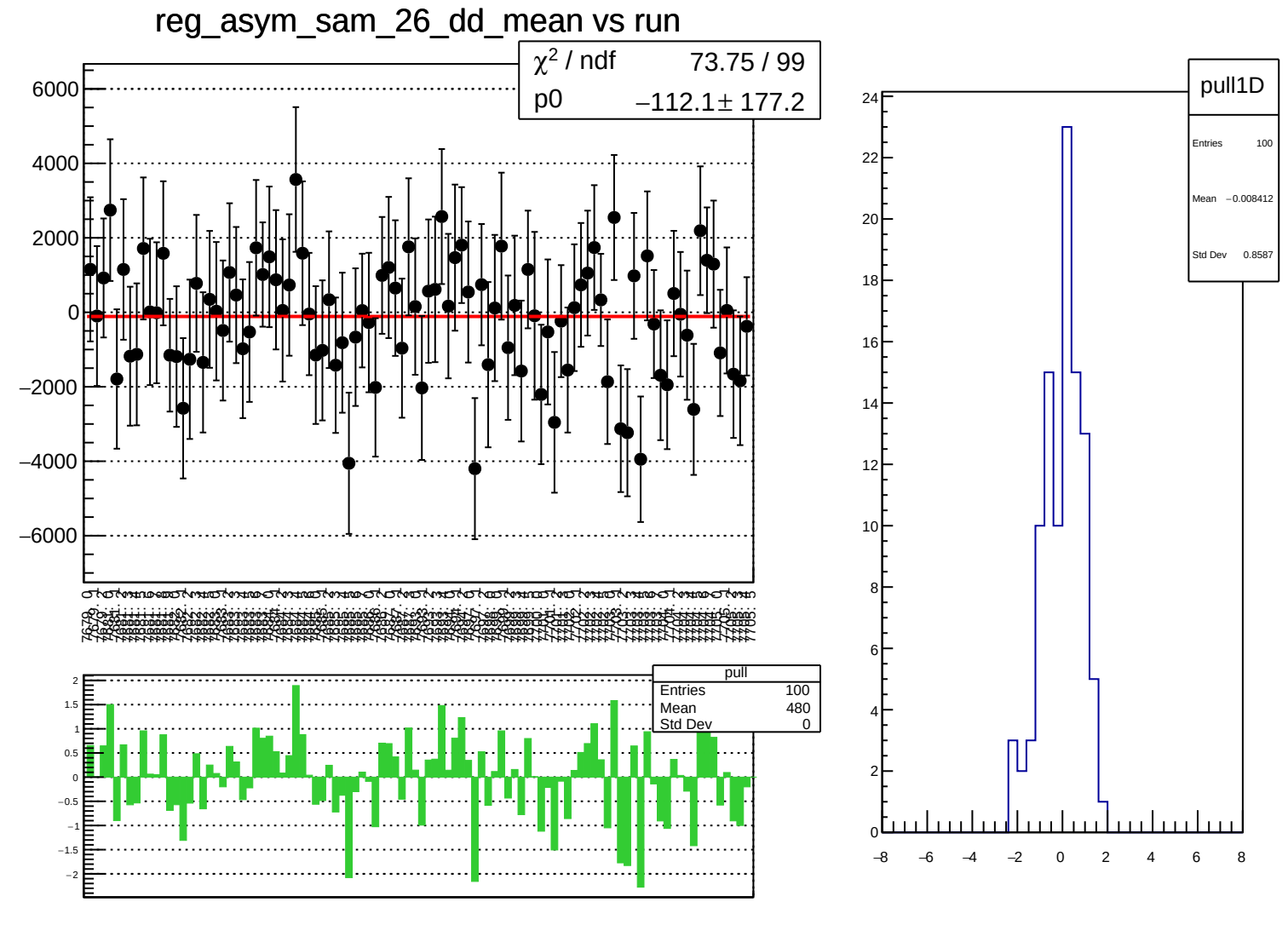

pull1D
Entries 100
Mean 0.005634
Std Dev 0.9644

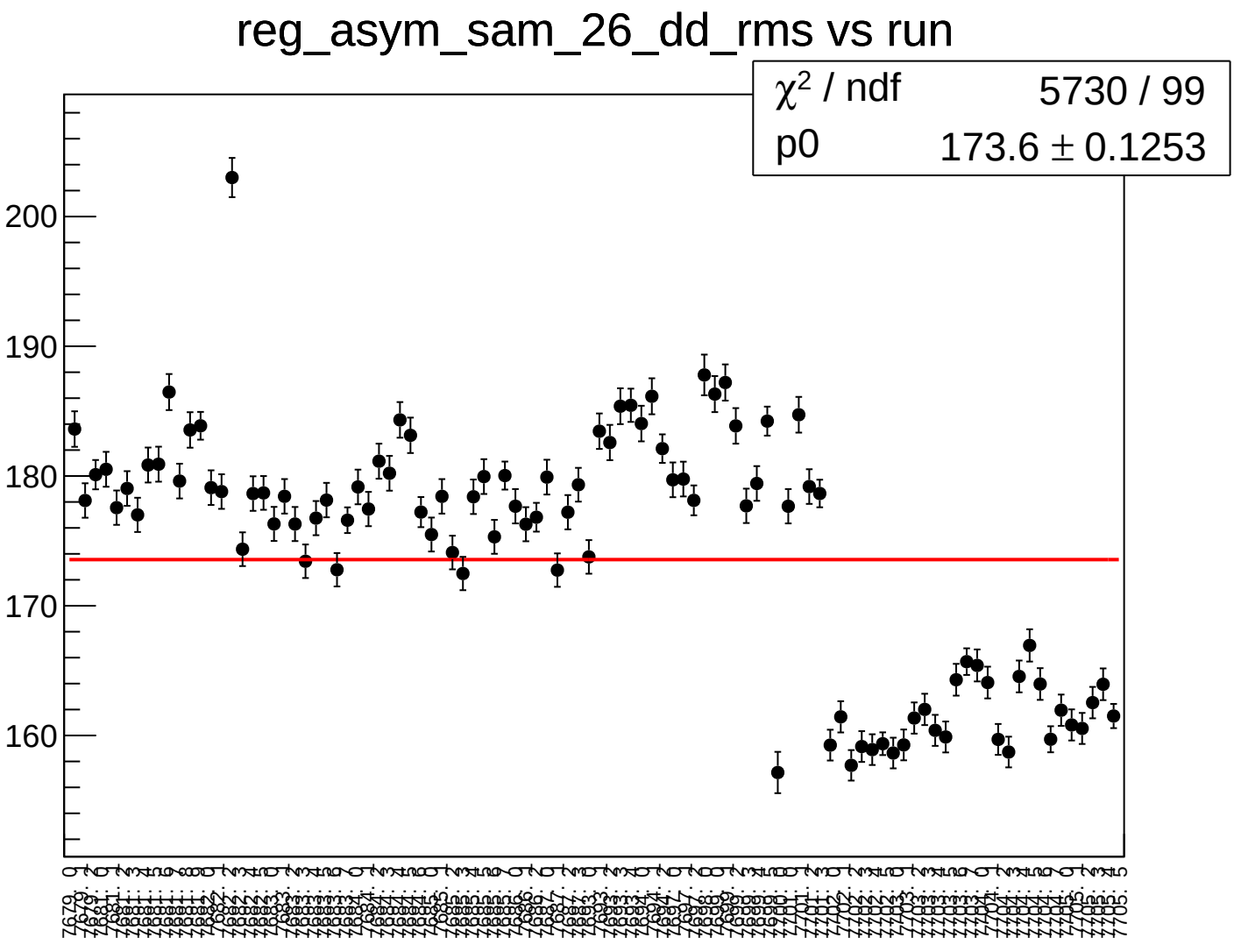

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.505e+04 / 99
p0 33.13 ± 0.02404
45
40
35
30
25

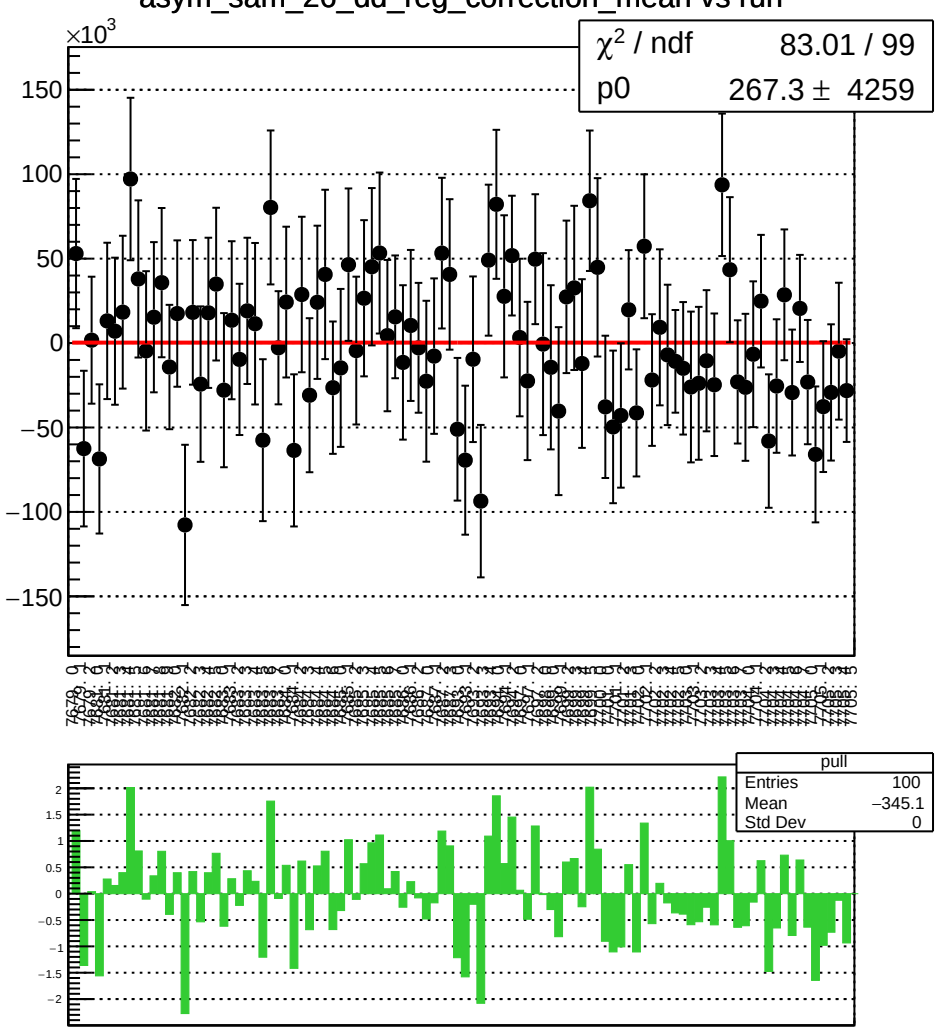

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.74 / 99
p0 3.29e−14 ± 2.633e−14
pull
Entries 100
Mean 79.49
Std Dev 0

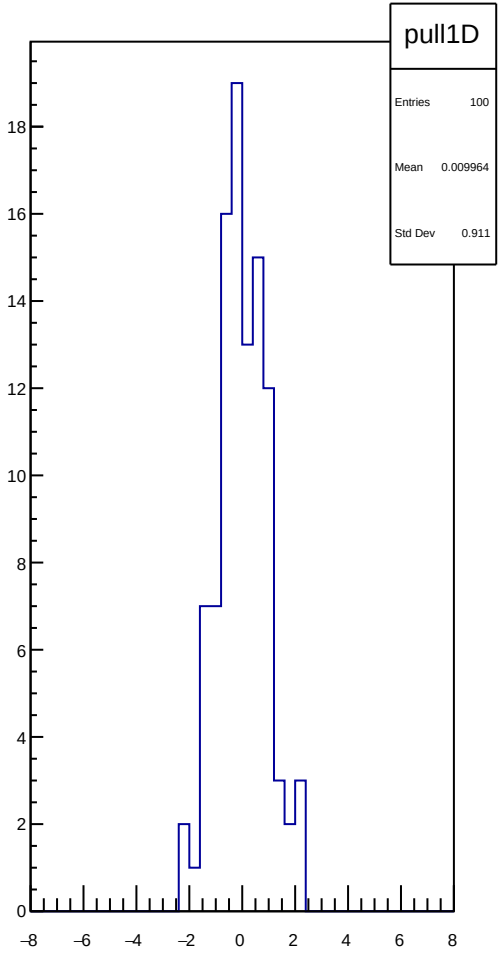

pull1D
Entries 100
Mean −0.126
Std Dev 0.9389

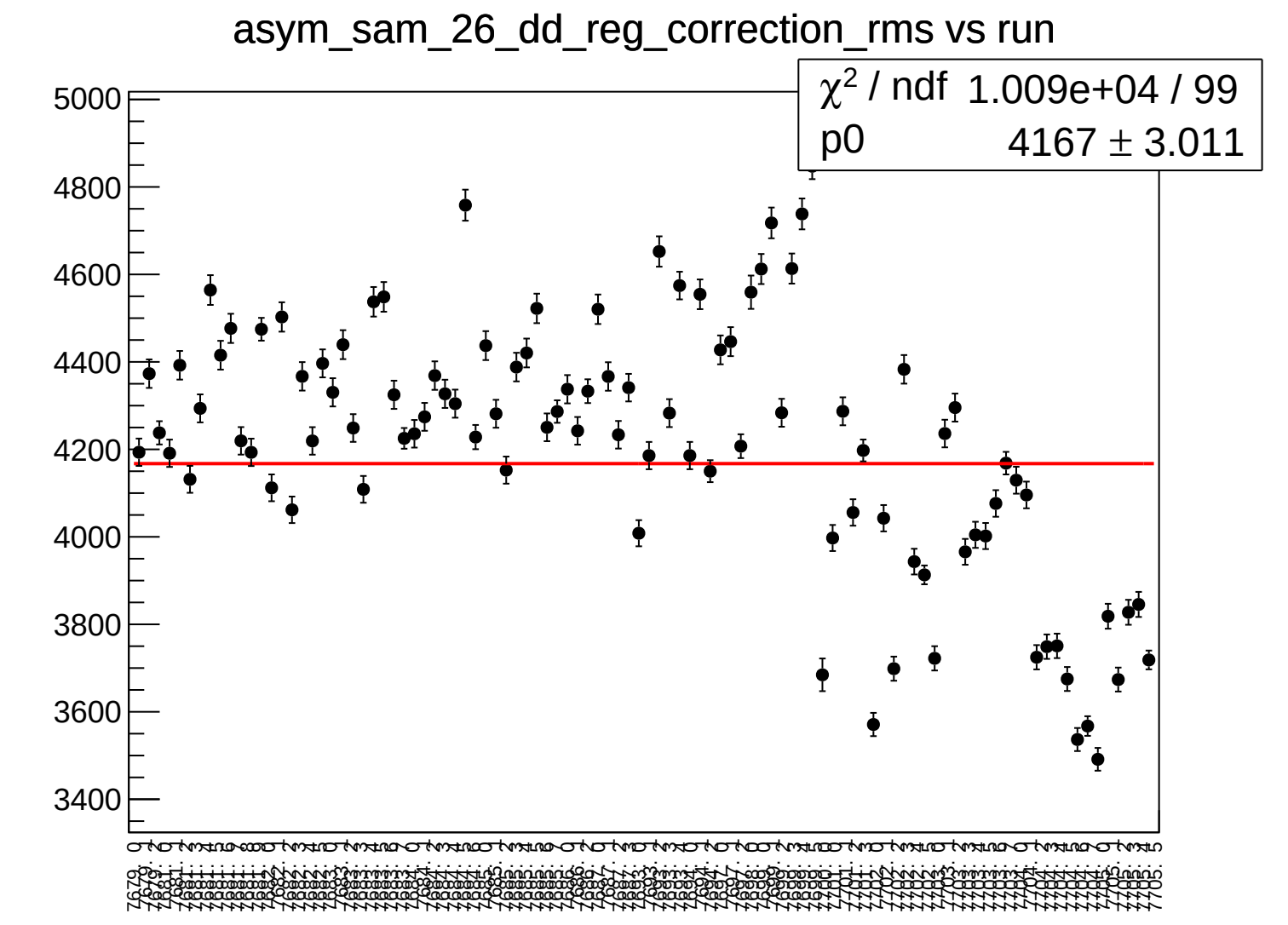

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.844e+05 / 99
p0 1.899e−11 ± 1.862e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

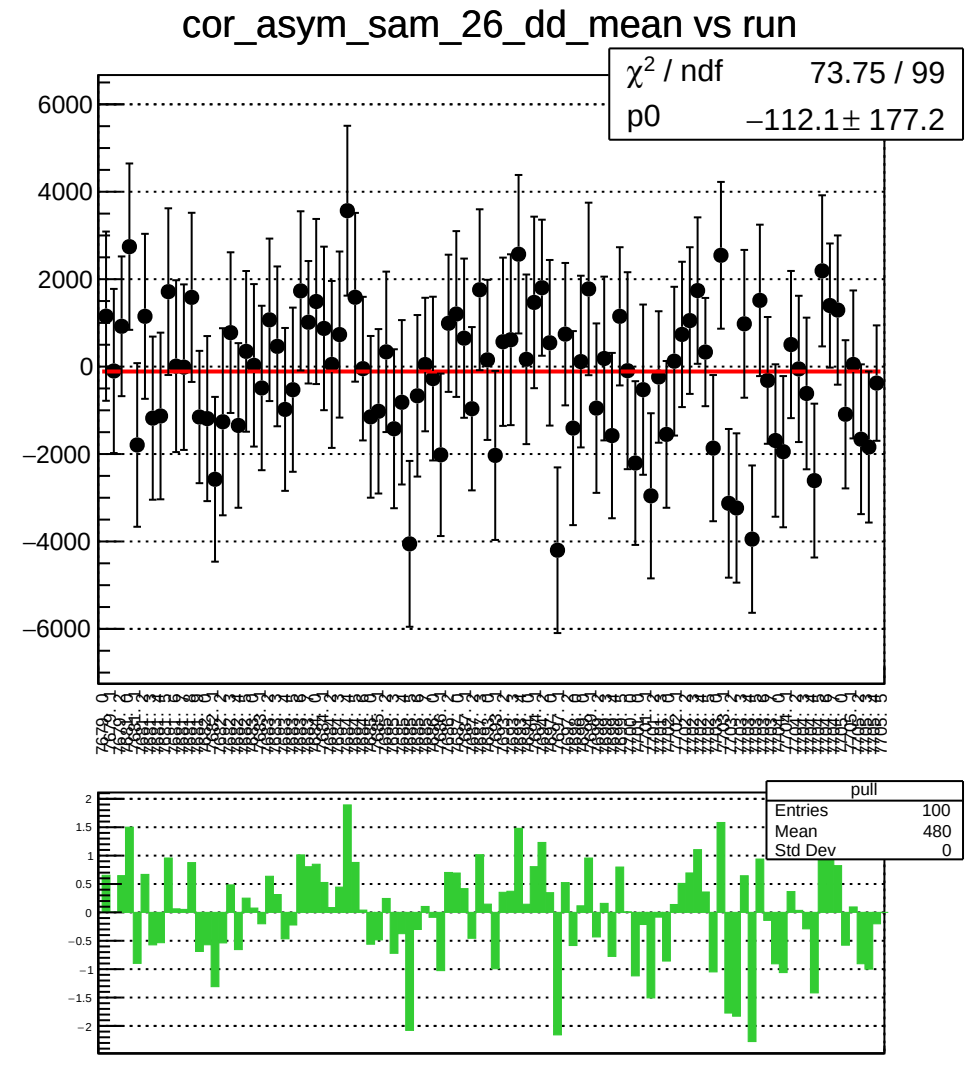

reg_asym_sam_26_dd_mean vs run
χ² / ndf 73.75 / 99
p0 −112.1 ± 177.2
pull
Entries 100
Mean 480
Std Dev 0
pull1D
Entries 100
Mean −0.008412
Std Dev 0.8587

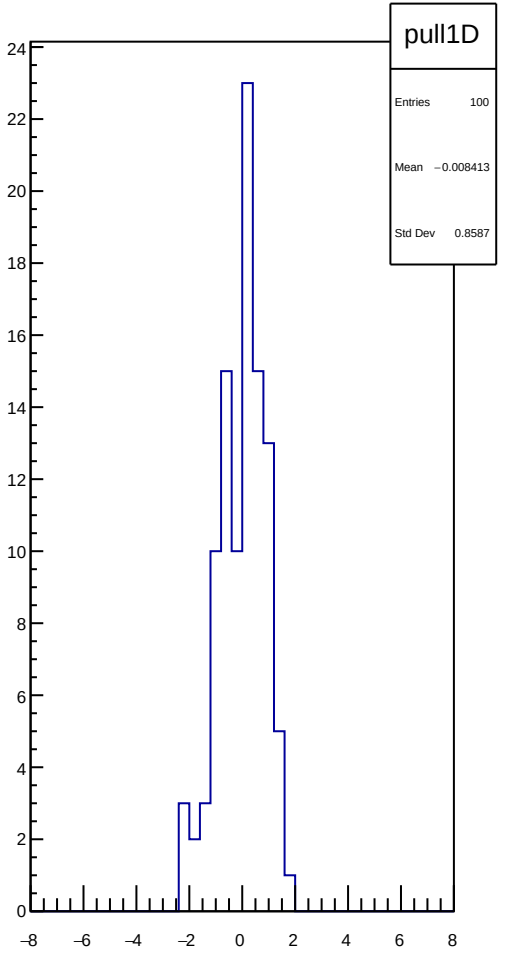

reg_asym_sam_26_dd_rms vs run
χ² / ndf 5730 / 99
p0 173.6 ± 0.1253
200
190
180
170
160

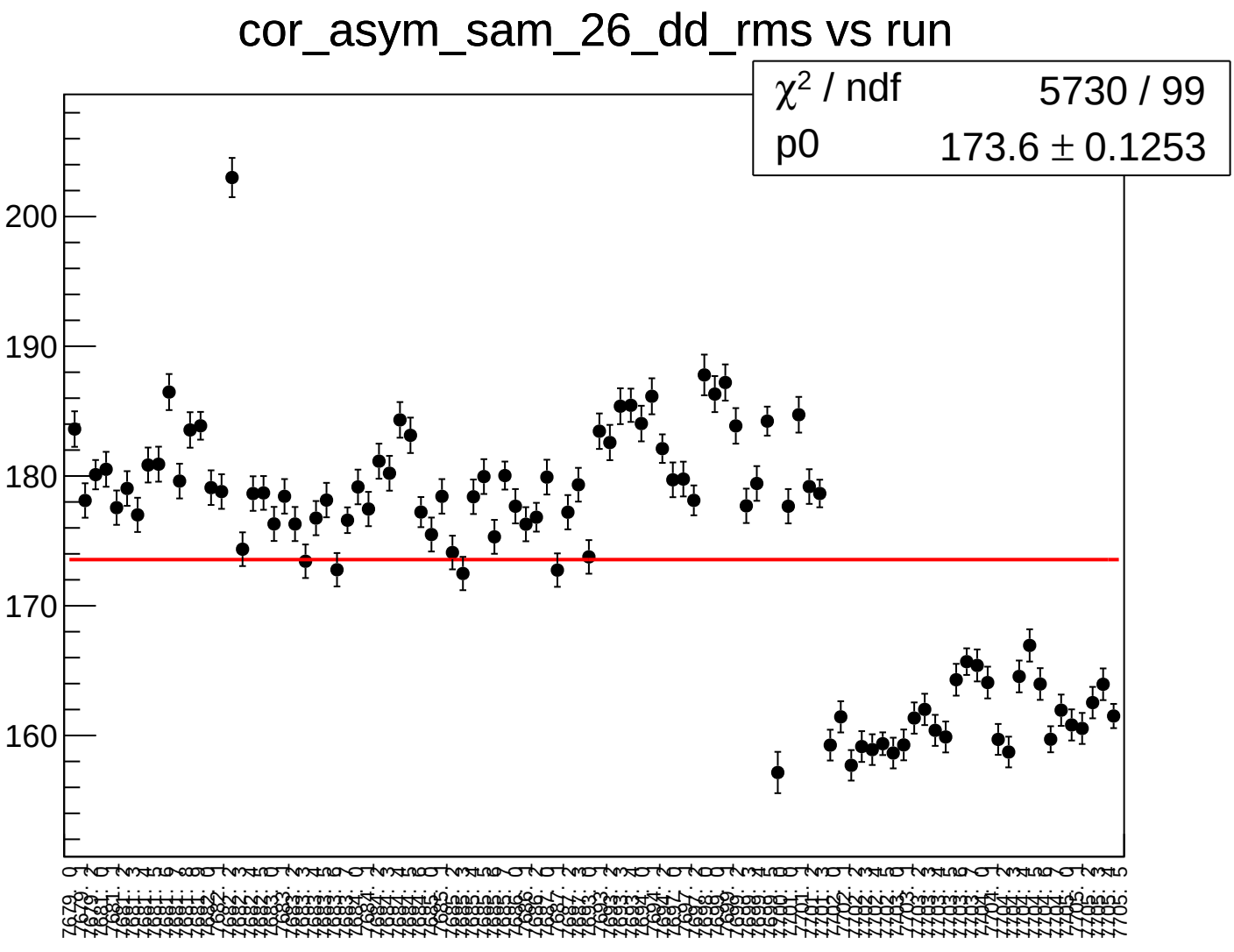

asym_sam_26_dd_reg_correction_mean vs run
χ² / ndf 83.01 / 99
p0 267.3 ± 4259
×10³
pull
Entries 100
Mean −345.1
Std Dev 0

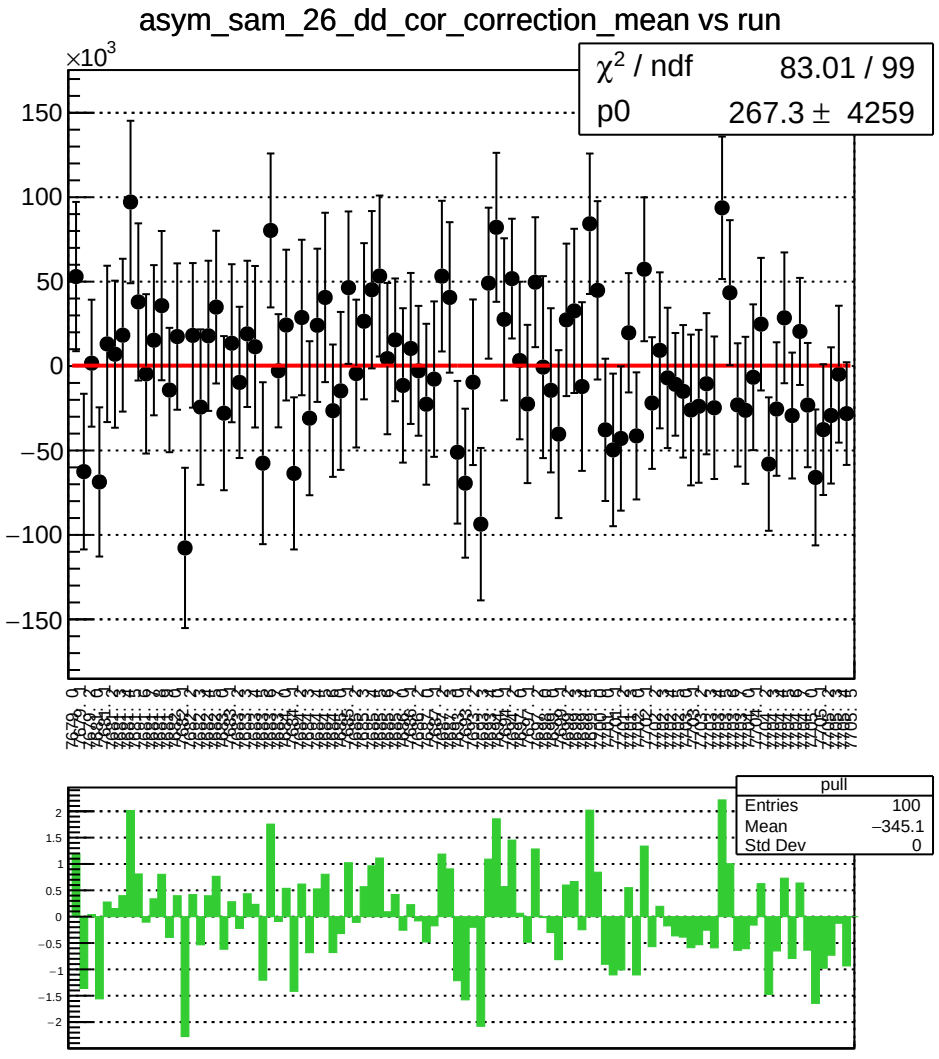

pull1D
Entries 100
Mean 0.009964
Std Dev 0.911

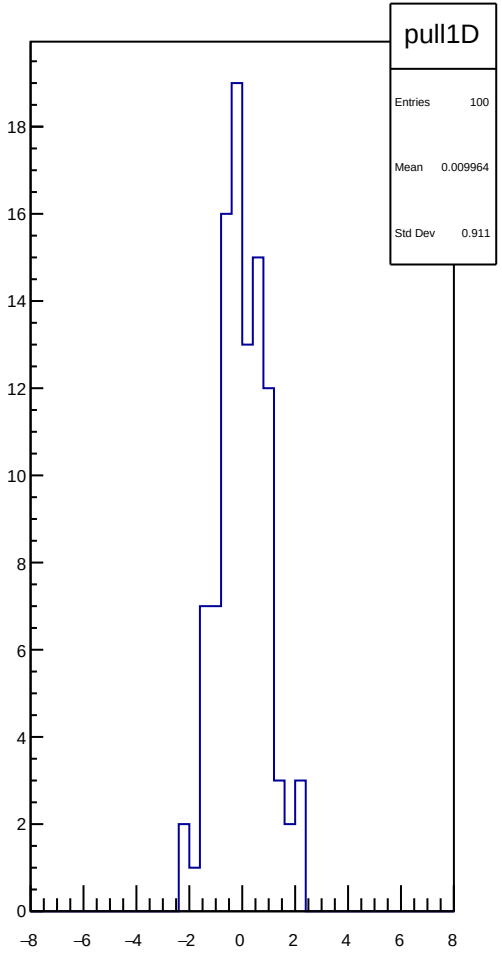

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 1.009e+04 / 99
p0 4167 ± 3.011
5000
4800
4600
4400
4200
4000
3800
3600
3400


cor_asym_sam_26_dd_mean vs run
χ² / ndf 73.75 / 99
p0 −112.1 ± 177.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 480
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 100
Mean −0.008413
Std Dev 0.8587
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_26_dd_rms vs run
χ² / ndf 5730 / 99
p0 173.6 ± 0.1253
200
190
180
170
160


asym_sam_26_dd_cor_correction_mean vs run
×10^3
χ² / ndf 83.01 / 99
p0 267.3 ± 4259
150
100
50
0
−50
−100
−150
pull
Entries 100
Mean −345.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 100
Mean 0.009964
Std Dev 0.911
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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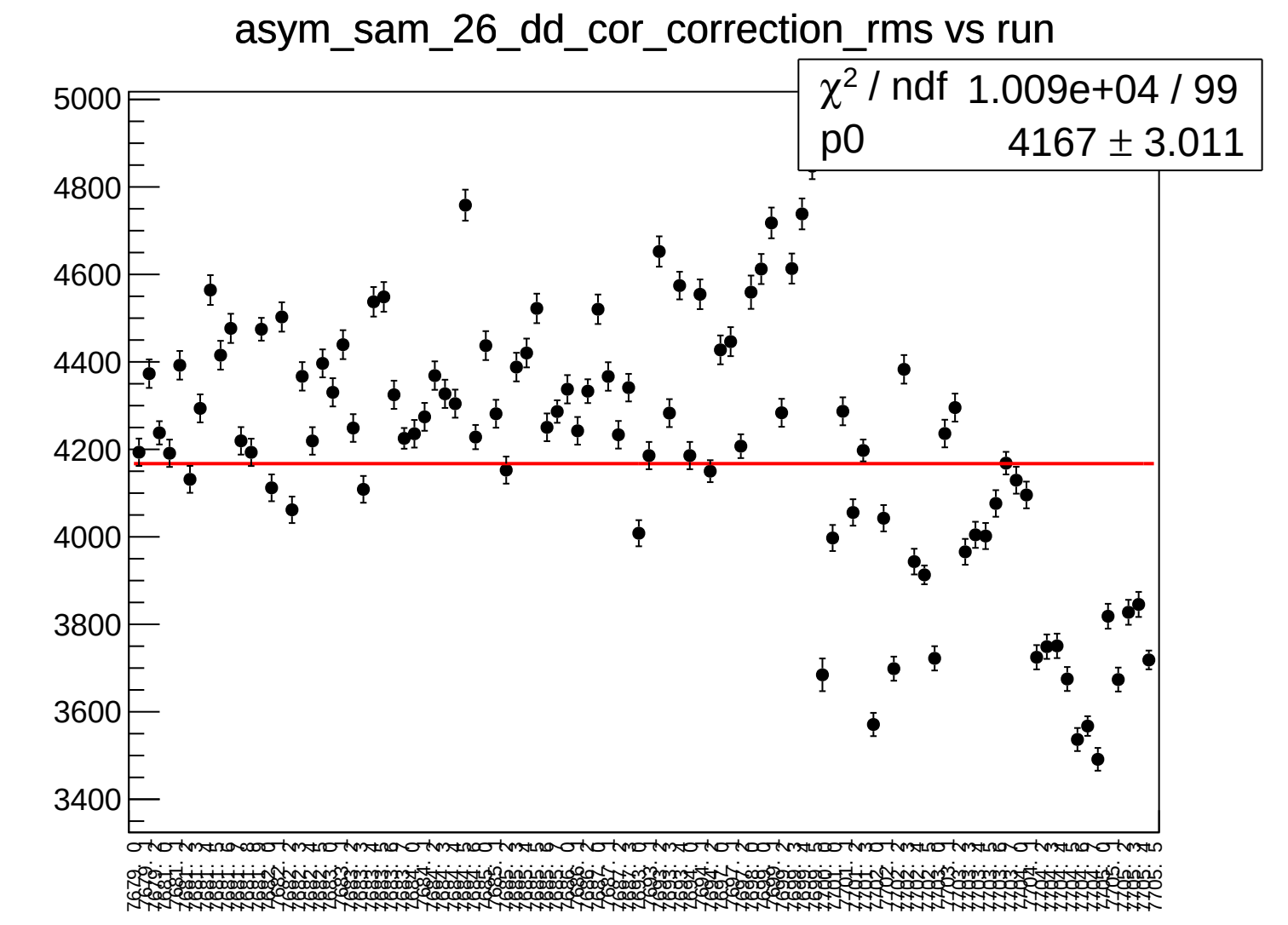
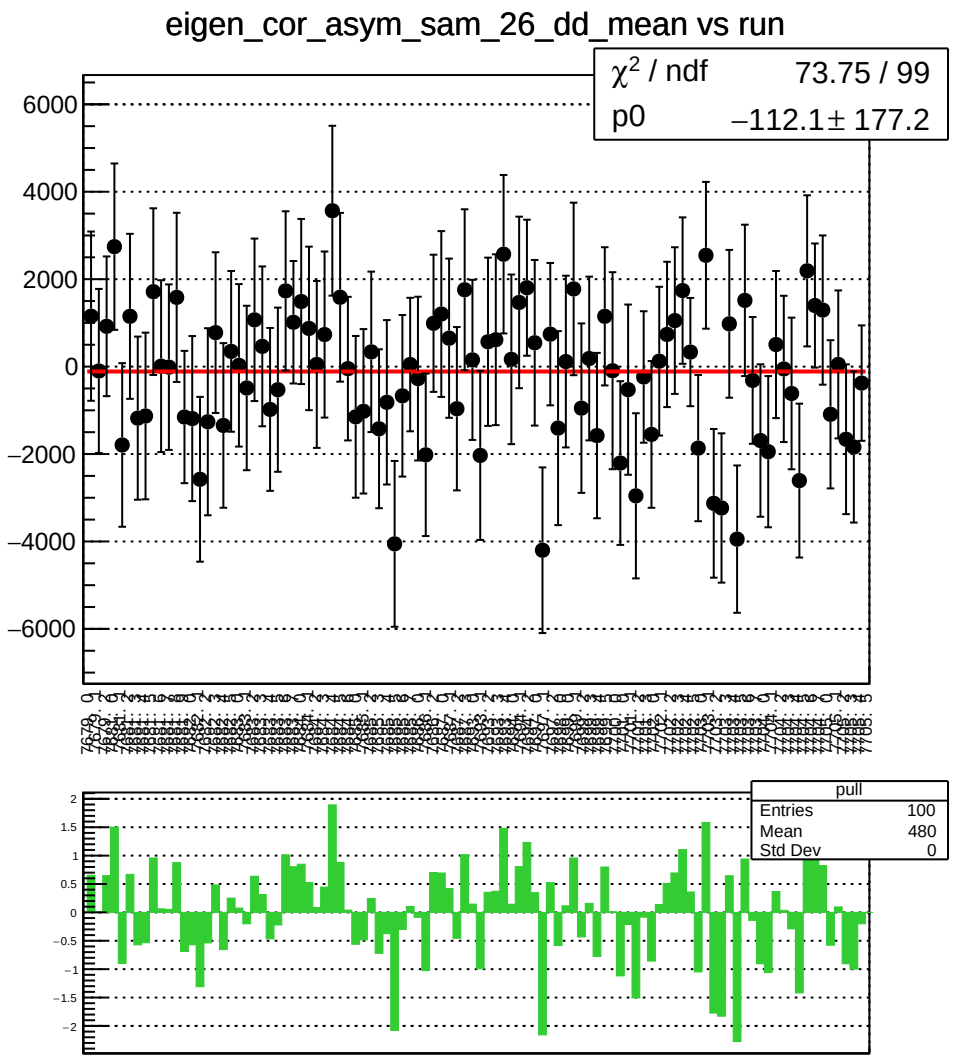
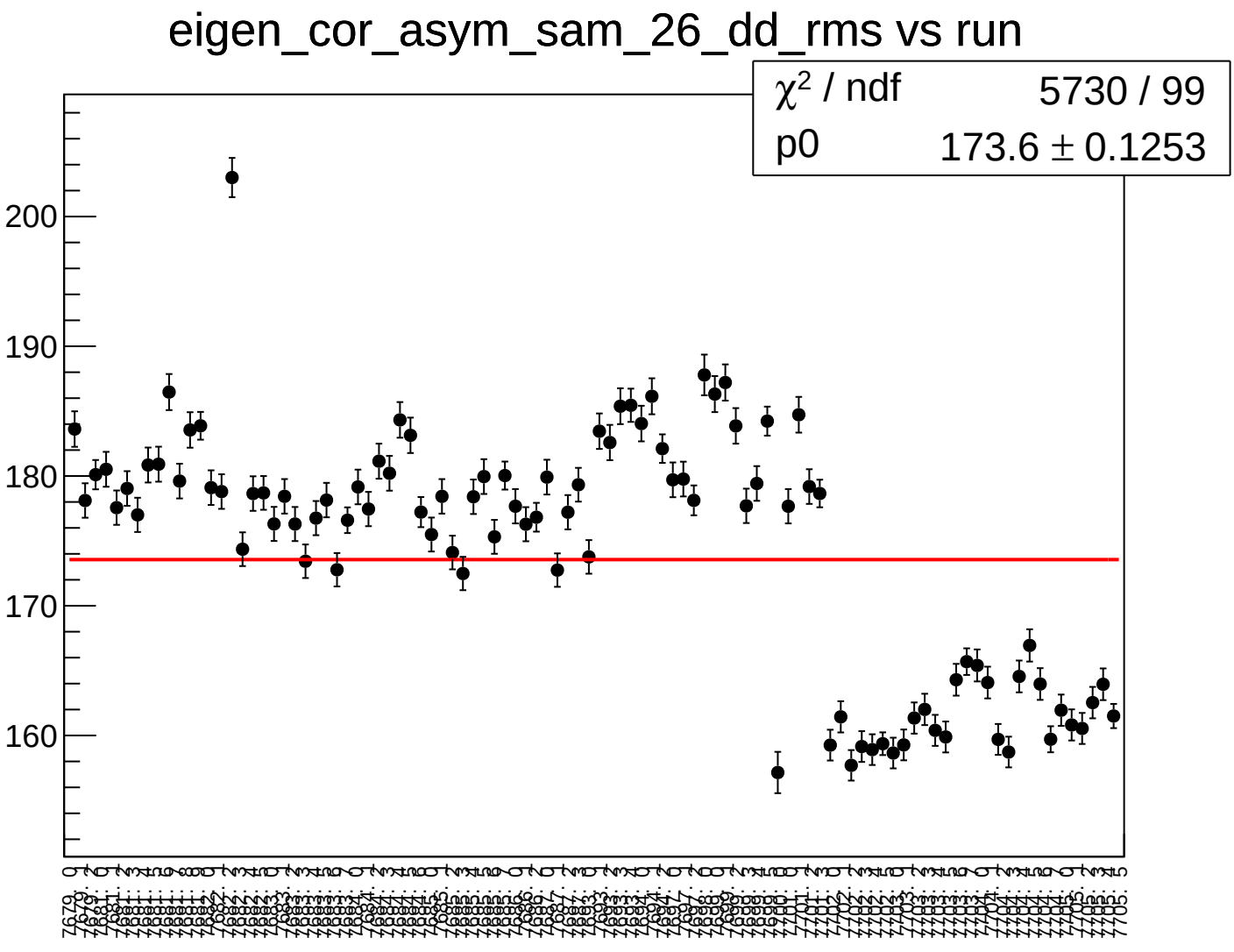
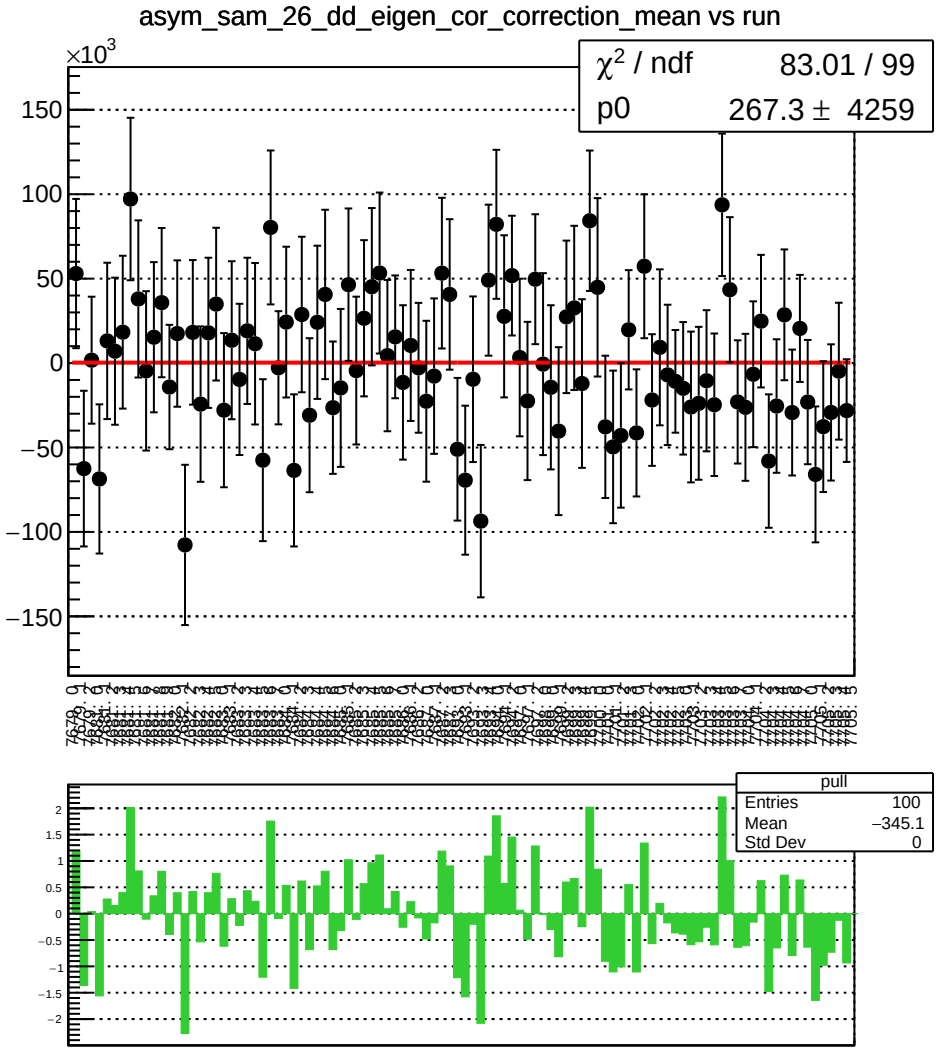
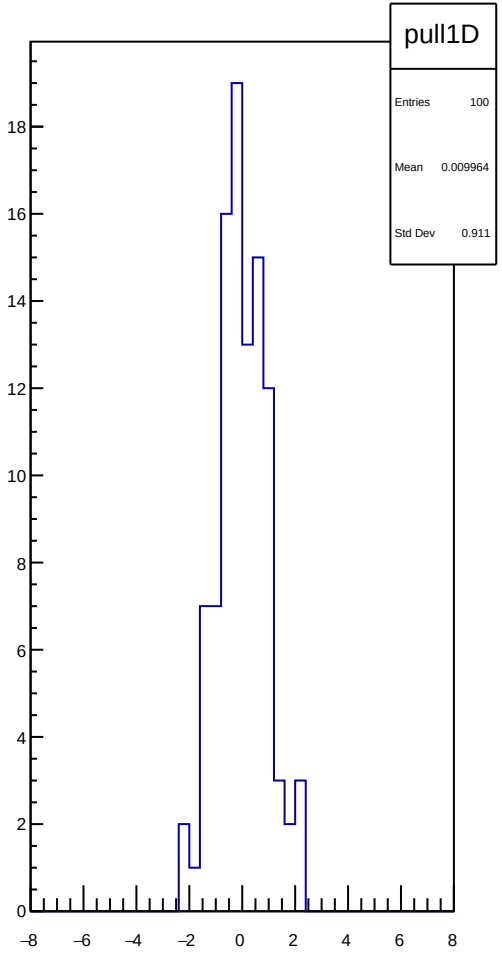
0
2
4
6
8

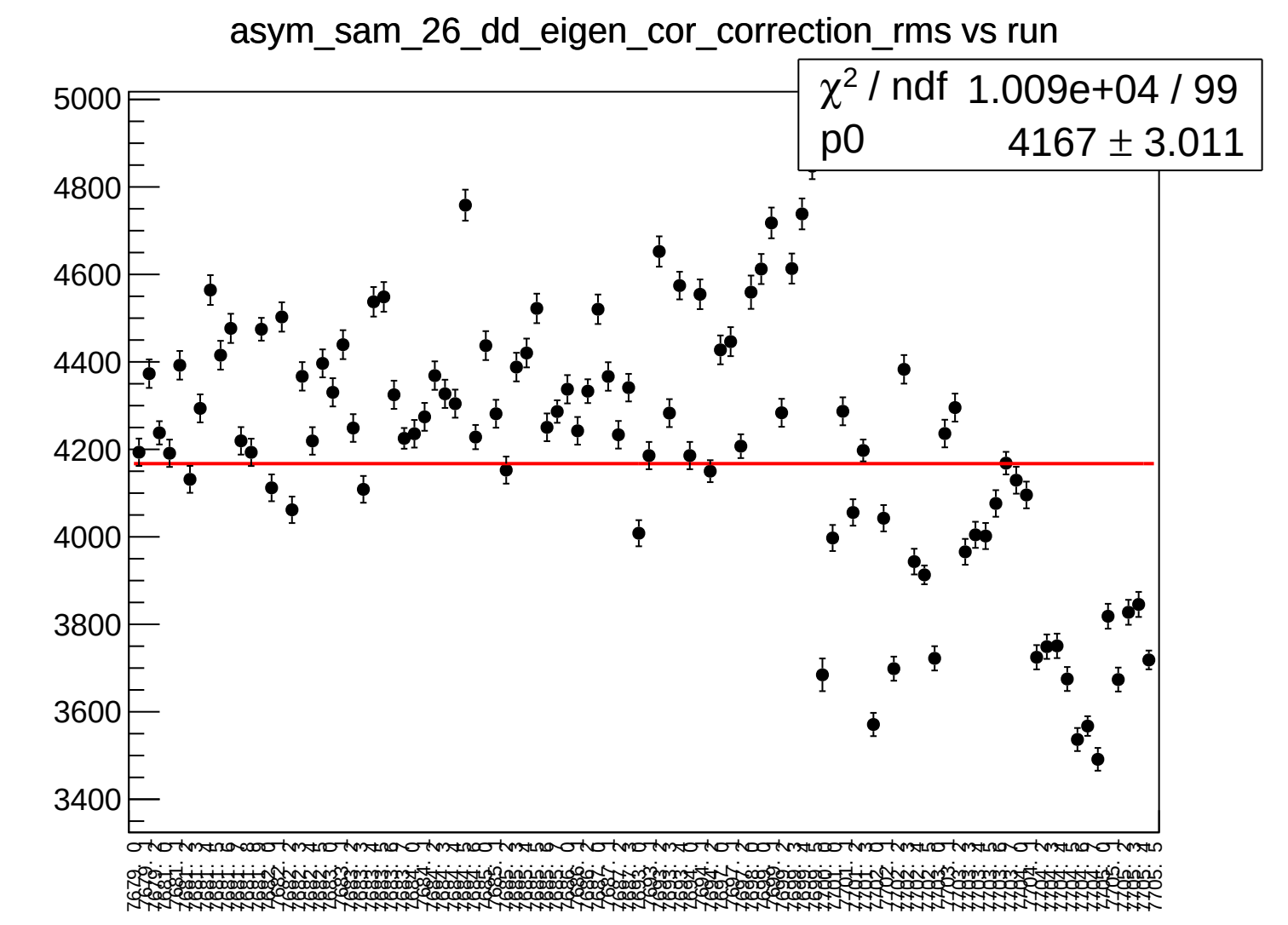

asym_sam_26_dd_cor_correction_rms vs run
χ^2 / ndf 1.009e+04 / 99
p0 4167 ± 3.011
5000
4800
4600
4400
4200
4000
3800
3600
3400

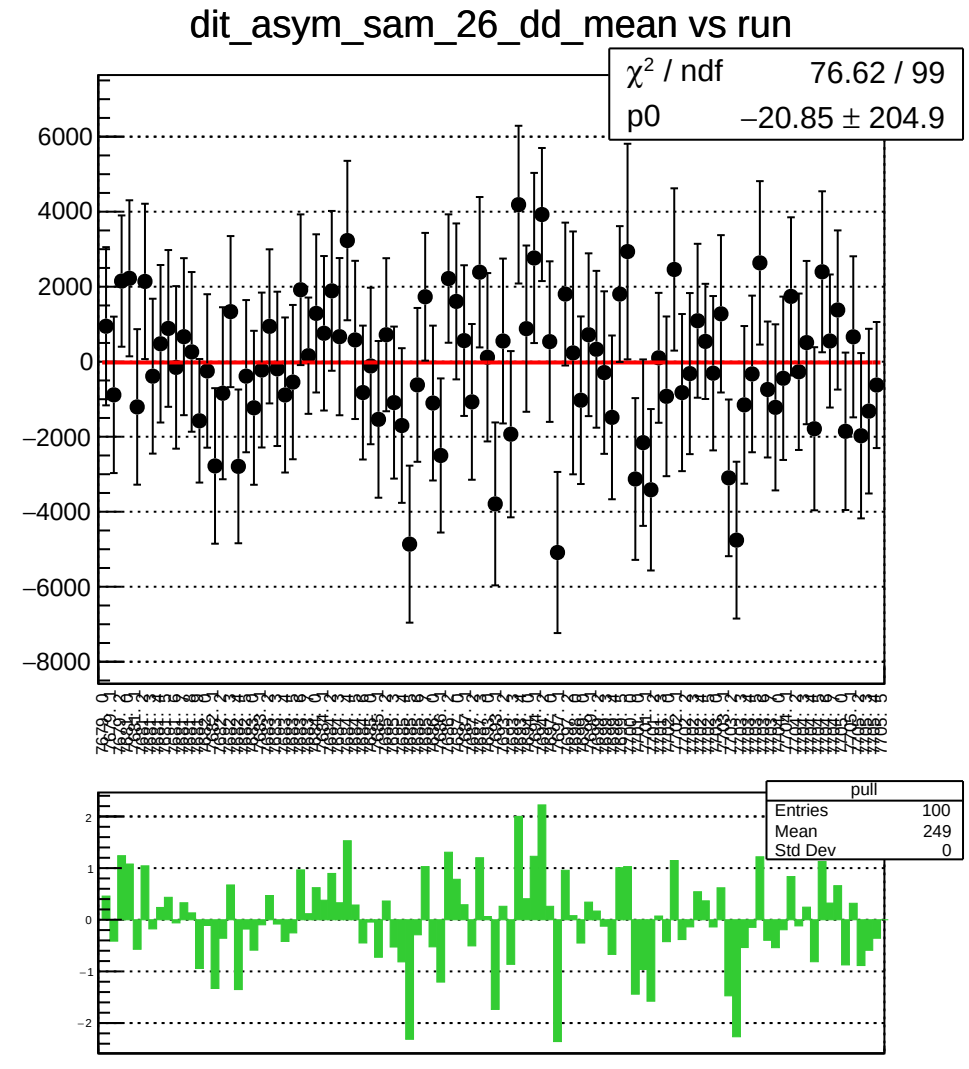

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 73.75 / 99
p0 −112.1 ± 177.2
pull
Entries 100
Mean 480
Std Dev 0
pull1D
Entries 100
Mean −0.008413
Std Dev 0.8587

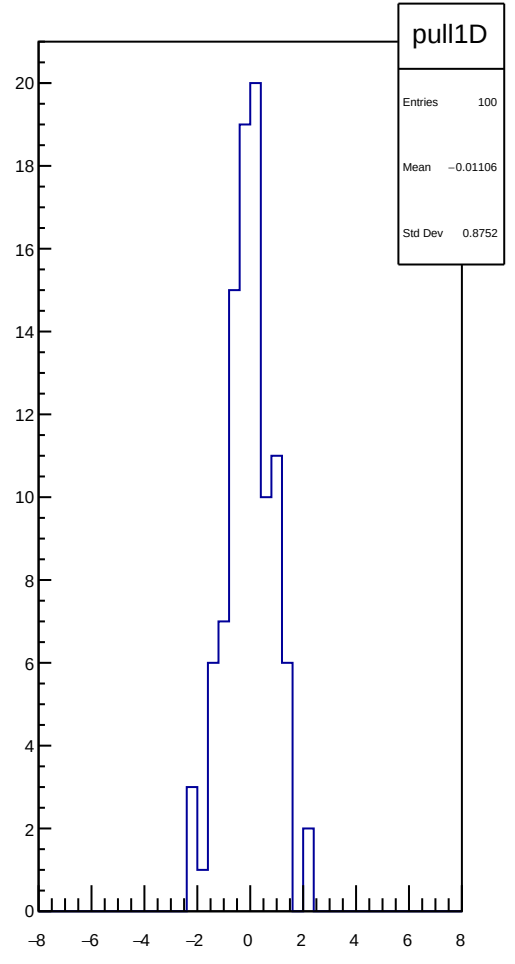

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 5730 / 99
p0 173.6 ± 0.1253
200
190
180
170
160

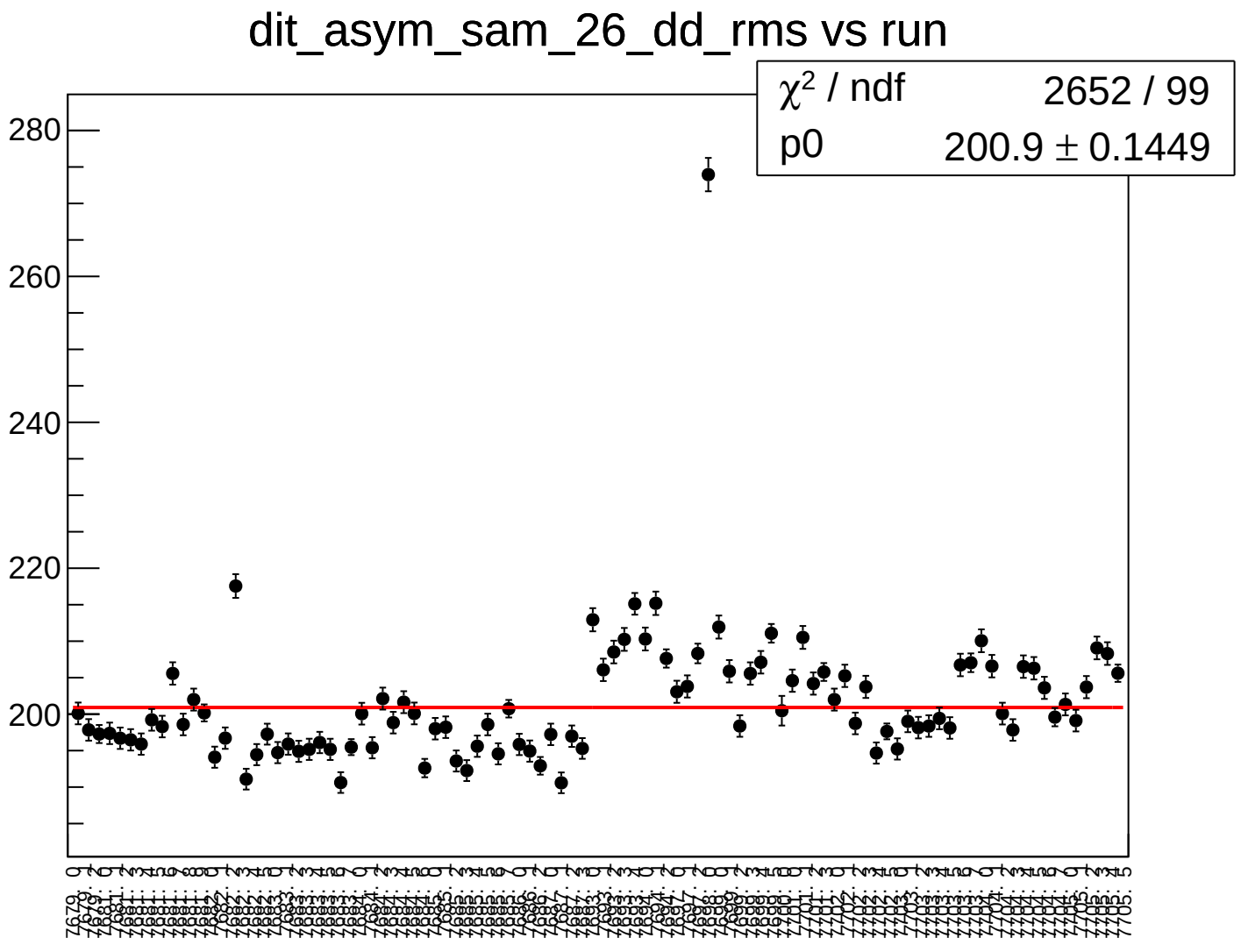

asym_sam_26_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 83.01 / 99
p0 267.3 ± 4259
150
100
50
0
−50
−100
−150
pull
Entries 100
Mean −345.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

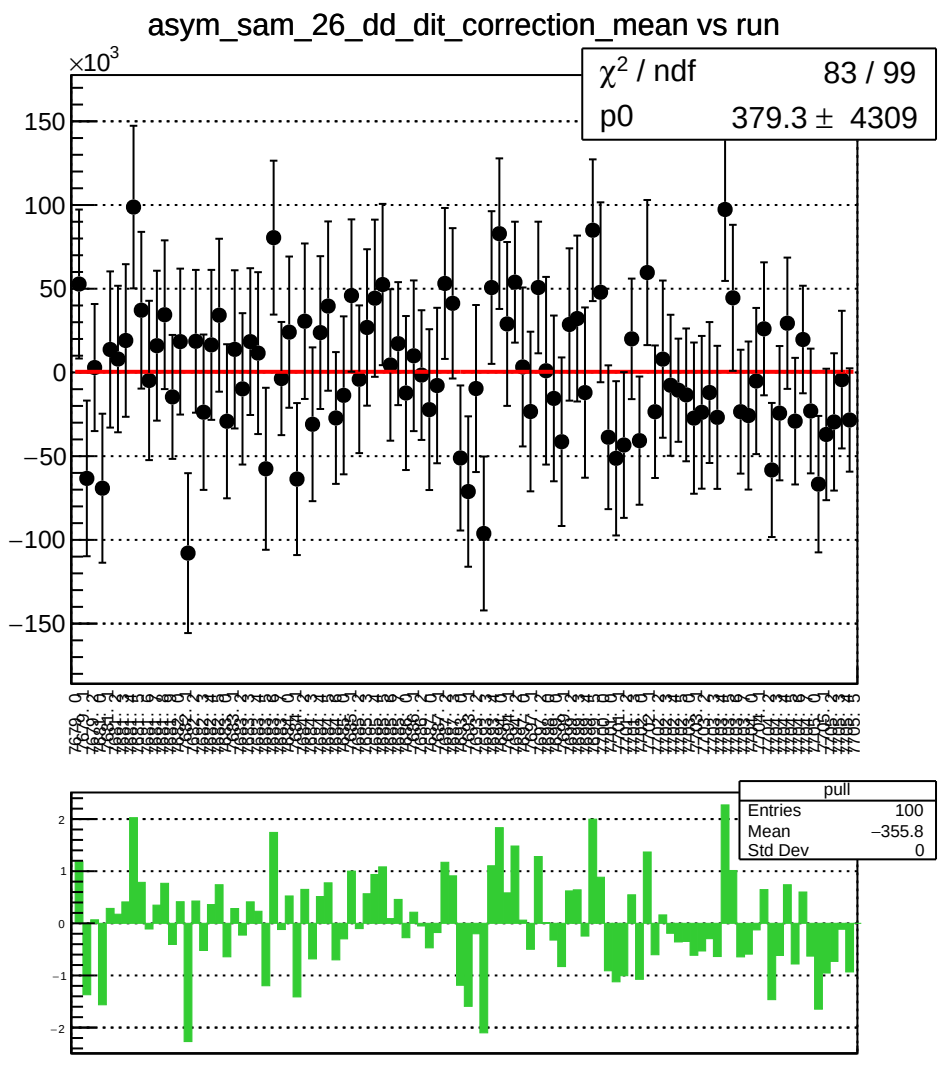

pull1D
Entries 100
Mean 0.009964
Std Dev 0.911
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

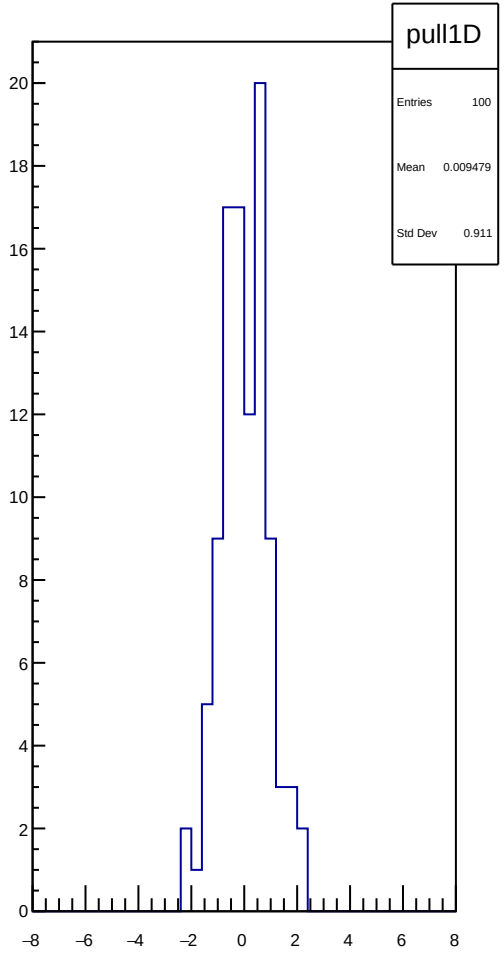

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.009e+04 / 99
p0 4167 ± 3.011
5000
4800
4600
4400
4200
4000
3800
3600
3400

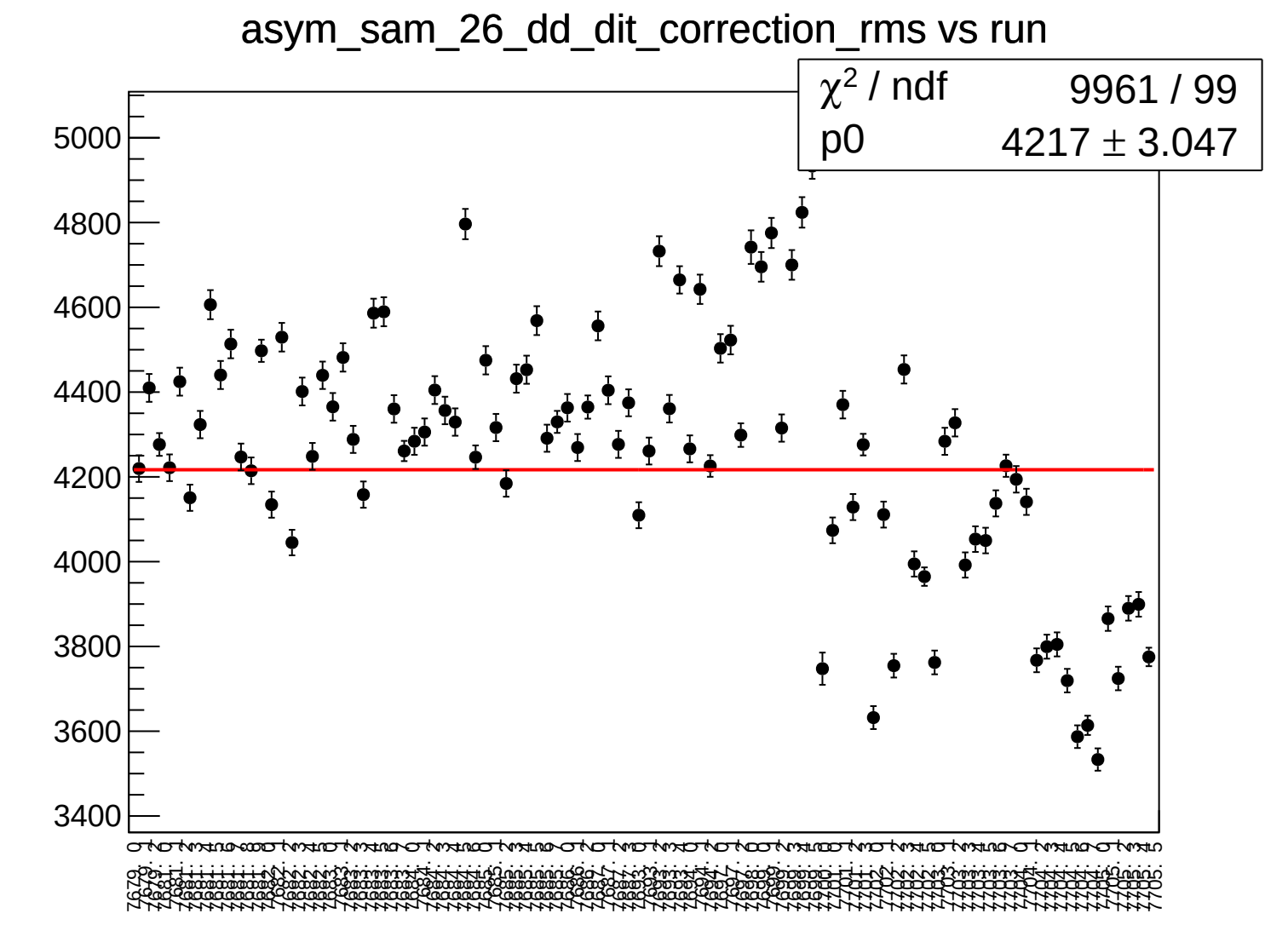

dit_asym_sam_26_dd_mean vs run
χ² / ndf 76.62 / 99
p0 −20.85 ± 204.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 100
Mean 249
Std Dev 0
2
1
0
−1
−2

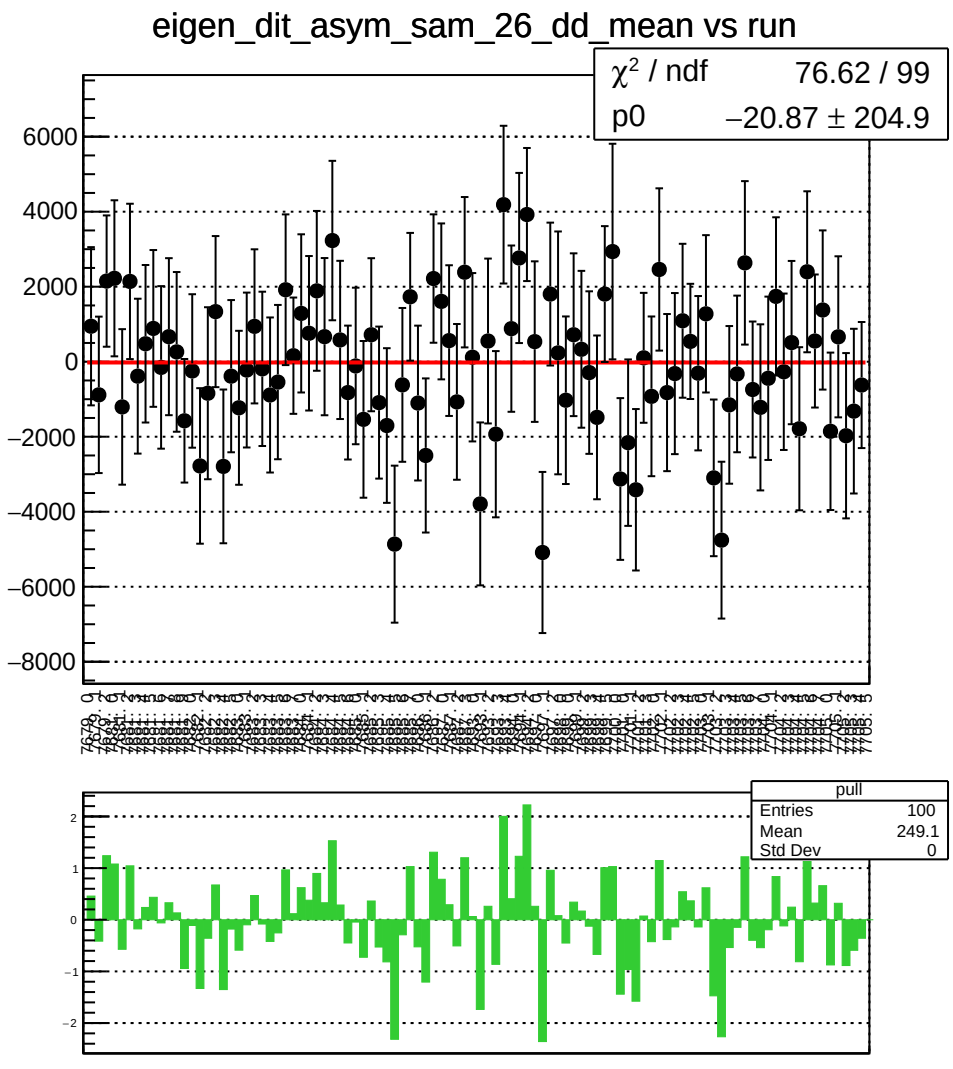

pull1D
Entries 100
Mean −0.01106
Std Dev 0.8752
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

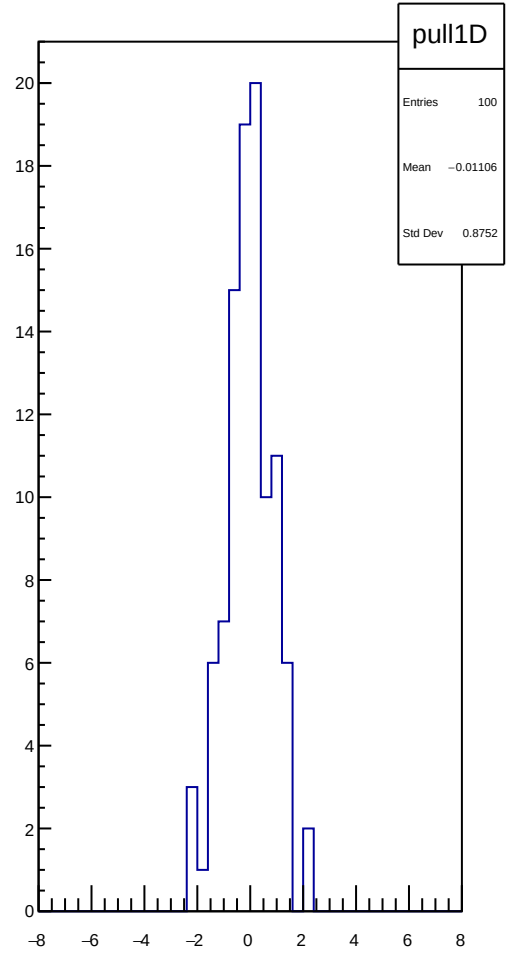

dit_asym_sam_26_dd_rms vs run
χ² / ndf 2652 / 99
p0 200.9 ± 0.1449
280
260
240
220
200

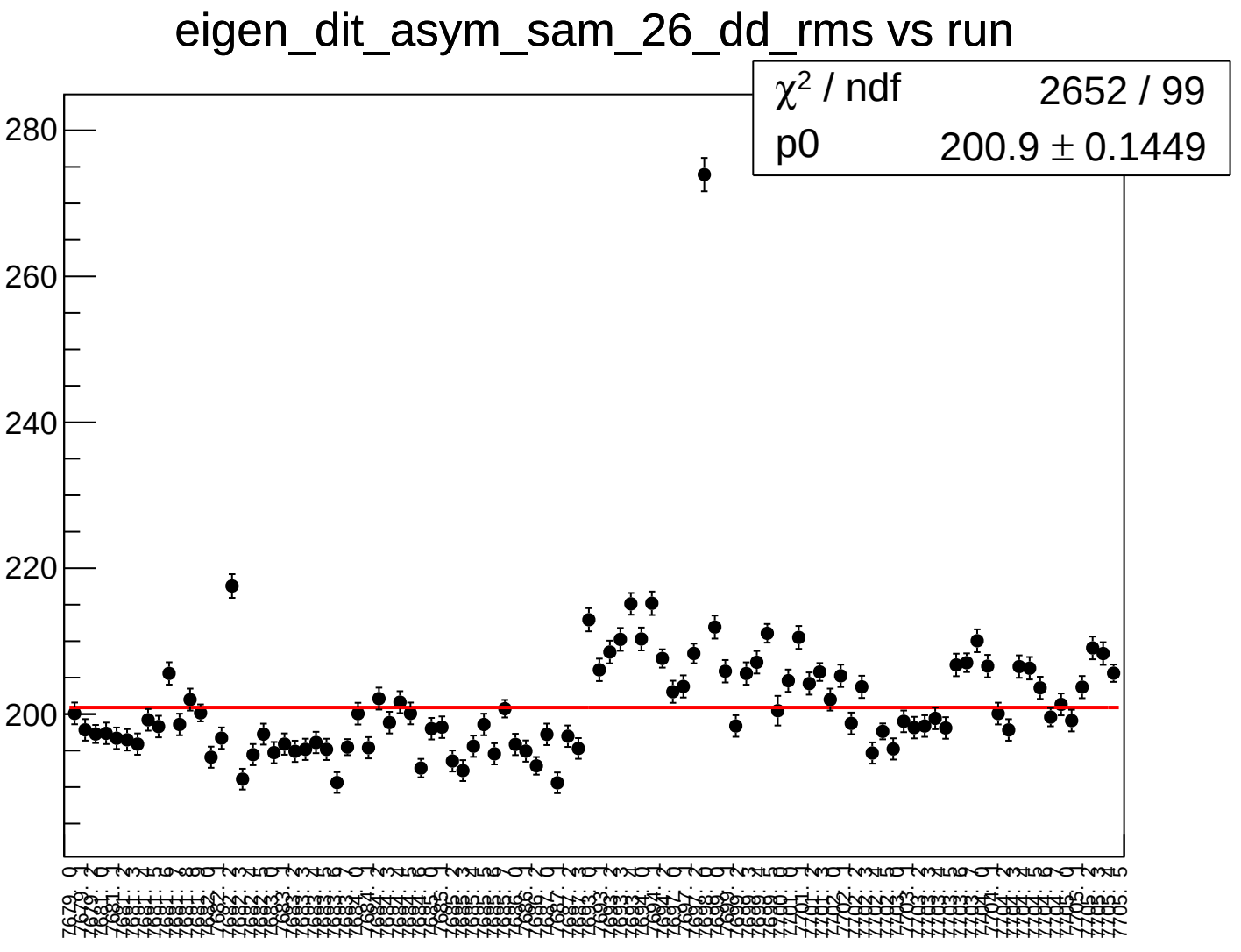

asym_sam_26_dd_dit_correction_mean vs run
×10^3
χ² / ndf 83 / 99
p0 379.3 ± 4309
150
100
50
0
−50
−100
−150
pull
Entries 100
Mean −355.8
Std Dev 0
2
1
0
−1
−2

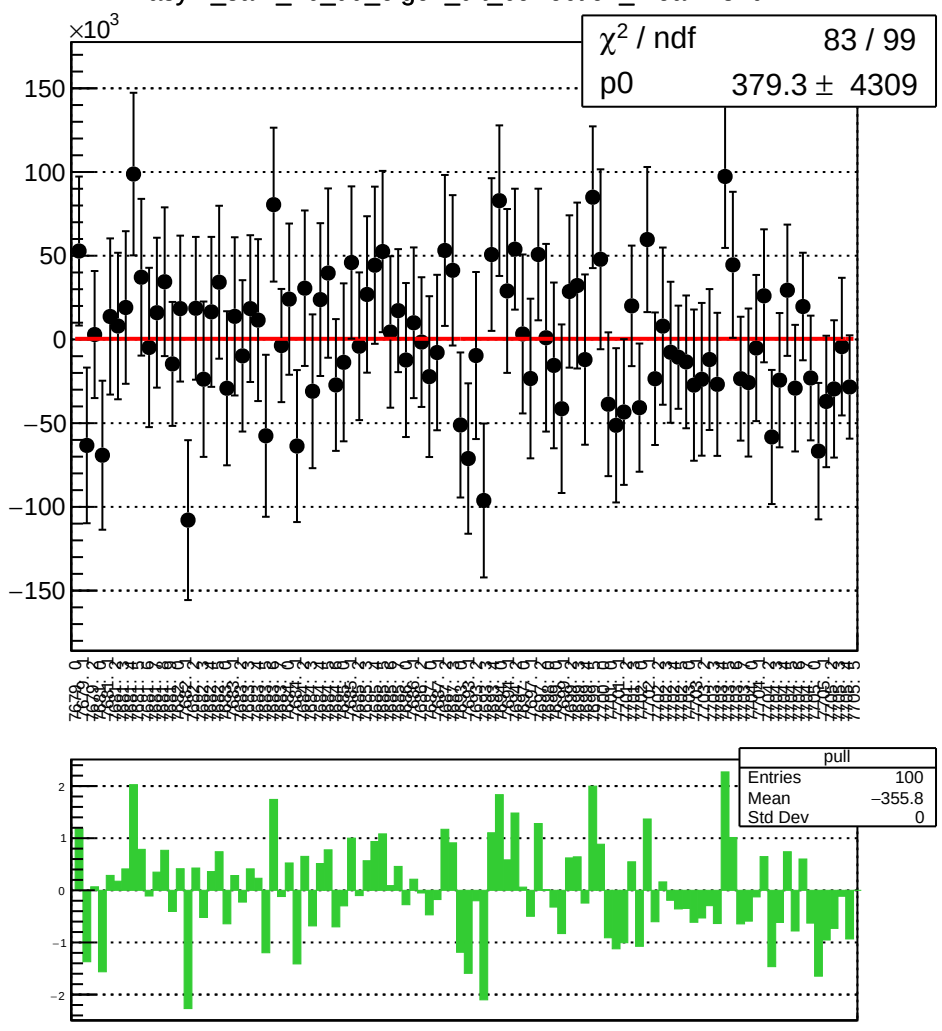

pull1D
Entries 100
Mean 0.009479
Std Dev 0.911
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

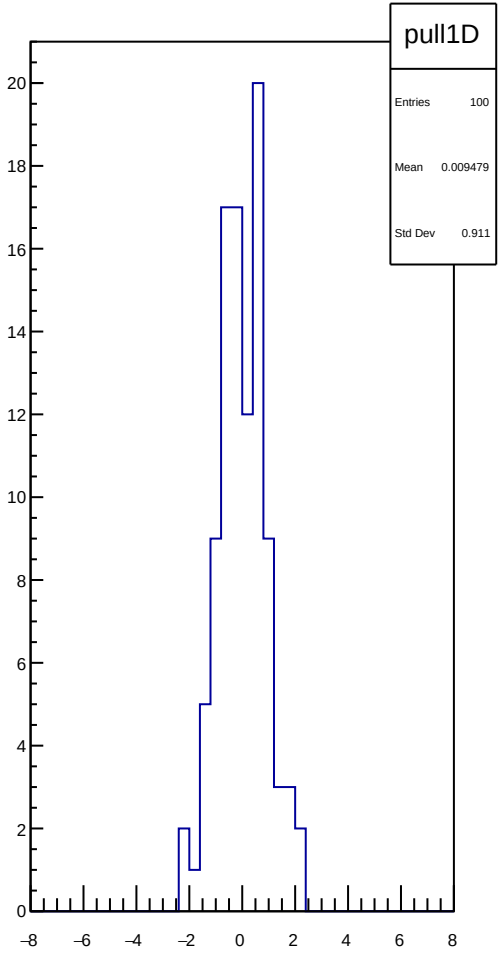

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 9961 / 99
p0 4217 ± 3.047
5000
4800
4600
4400
4200
4000
3800
3600
3400

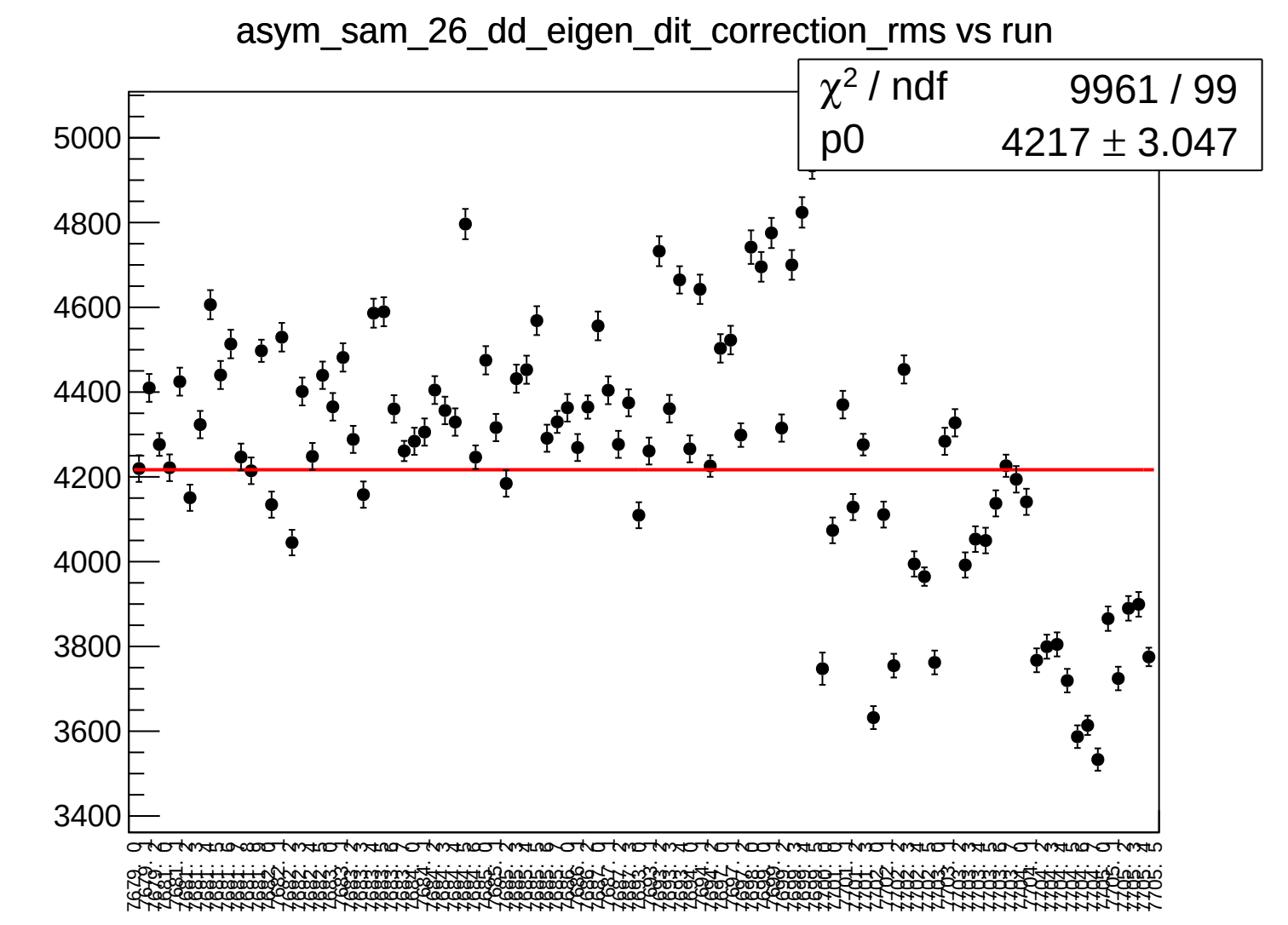

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 76.62 / 99
p0 −20.87 ± 204.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 100
Mean 249.1
Std Dev 0
2
1
0
−1
−2

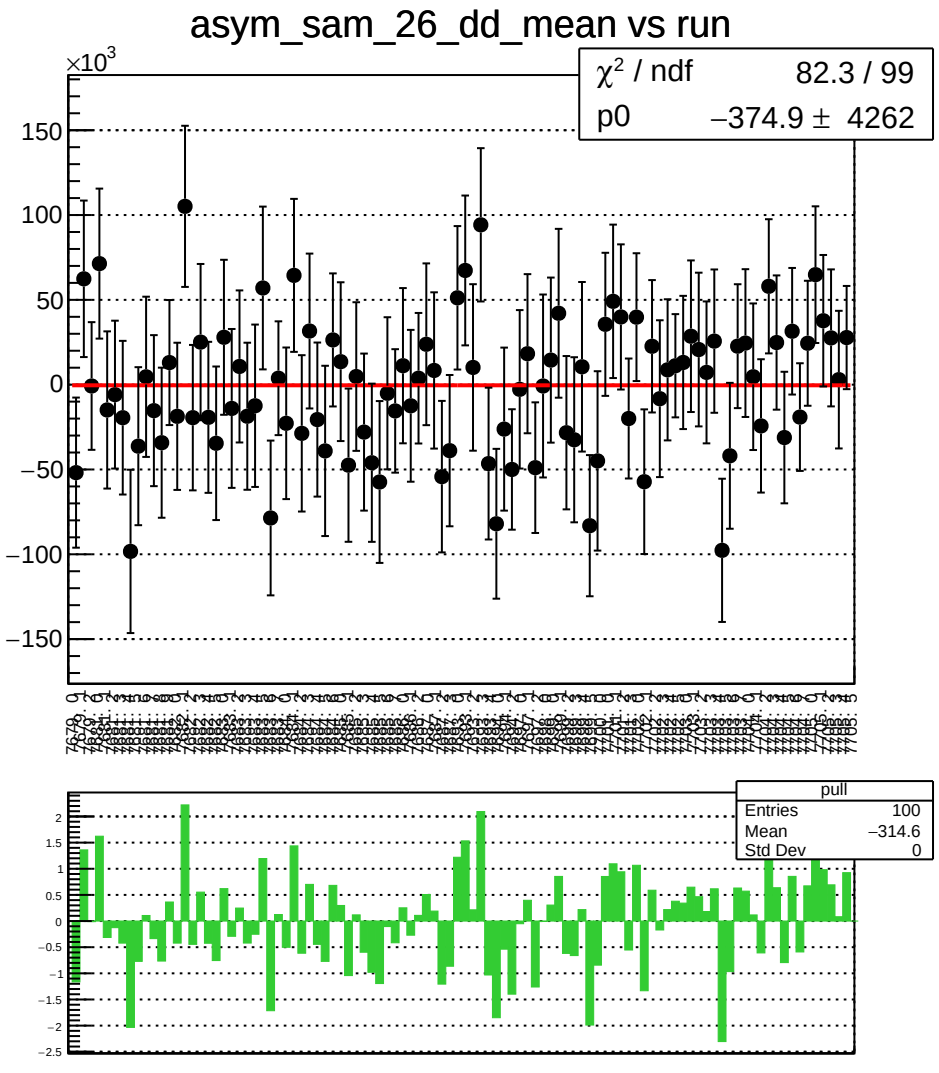

pull1D
Entries 100
Mean −0.01106
Std Dev 0.8752
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

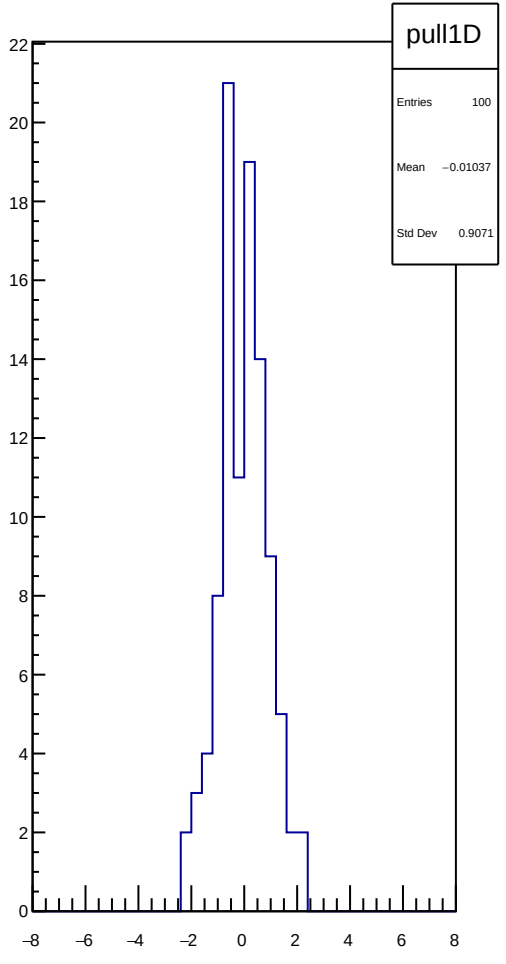

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 2652 / 99
p0 200.9 ± 0.1449
280
260
240
220
200

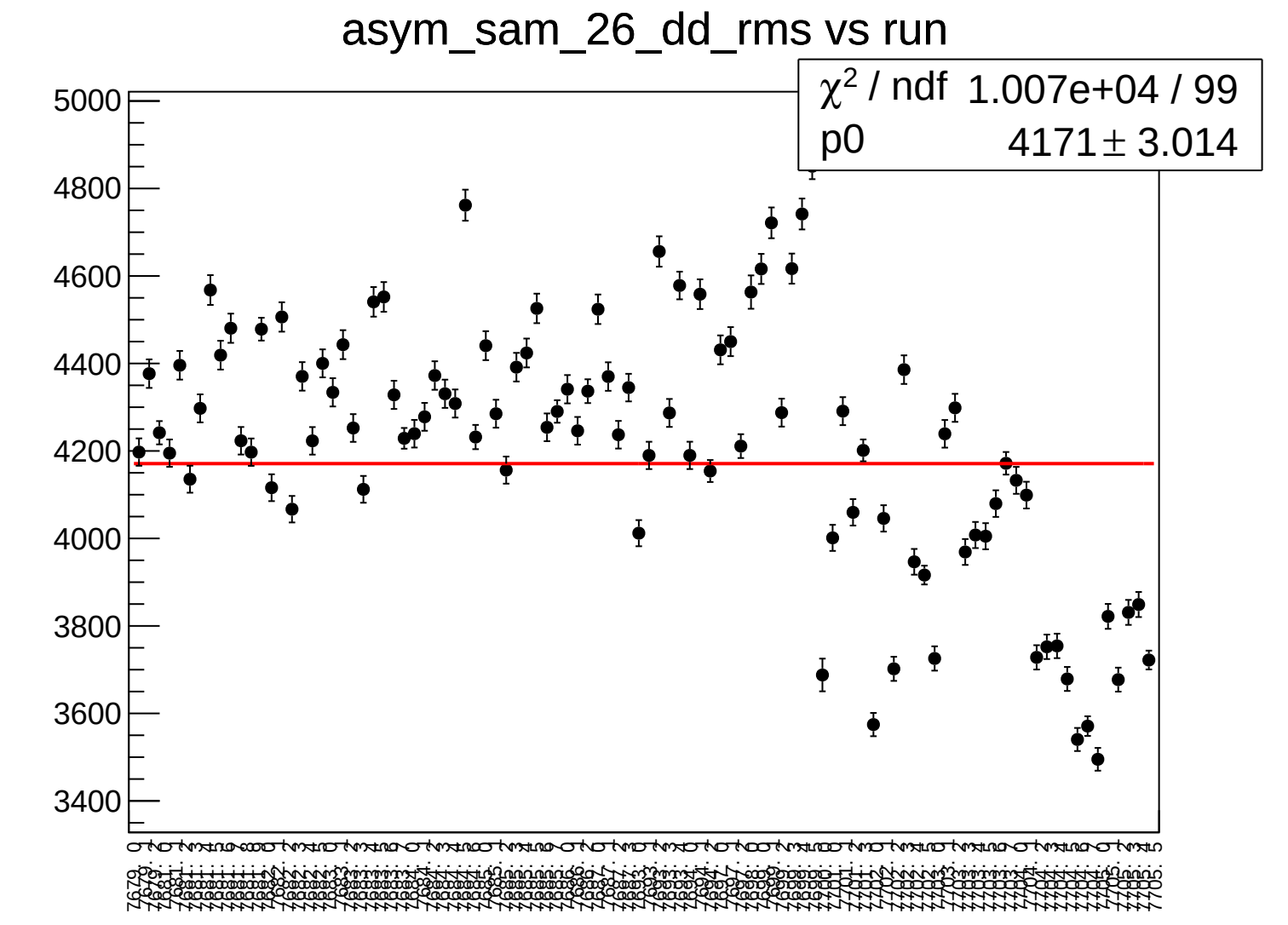

asym_sam_26_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 83 / 99
p0 379.3 ± 4309
150
100
50
0
−50
−100
−150
pull
Entries 100
Mean −355.8
Std Dev 0
2
1
0
−1
−2

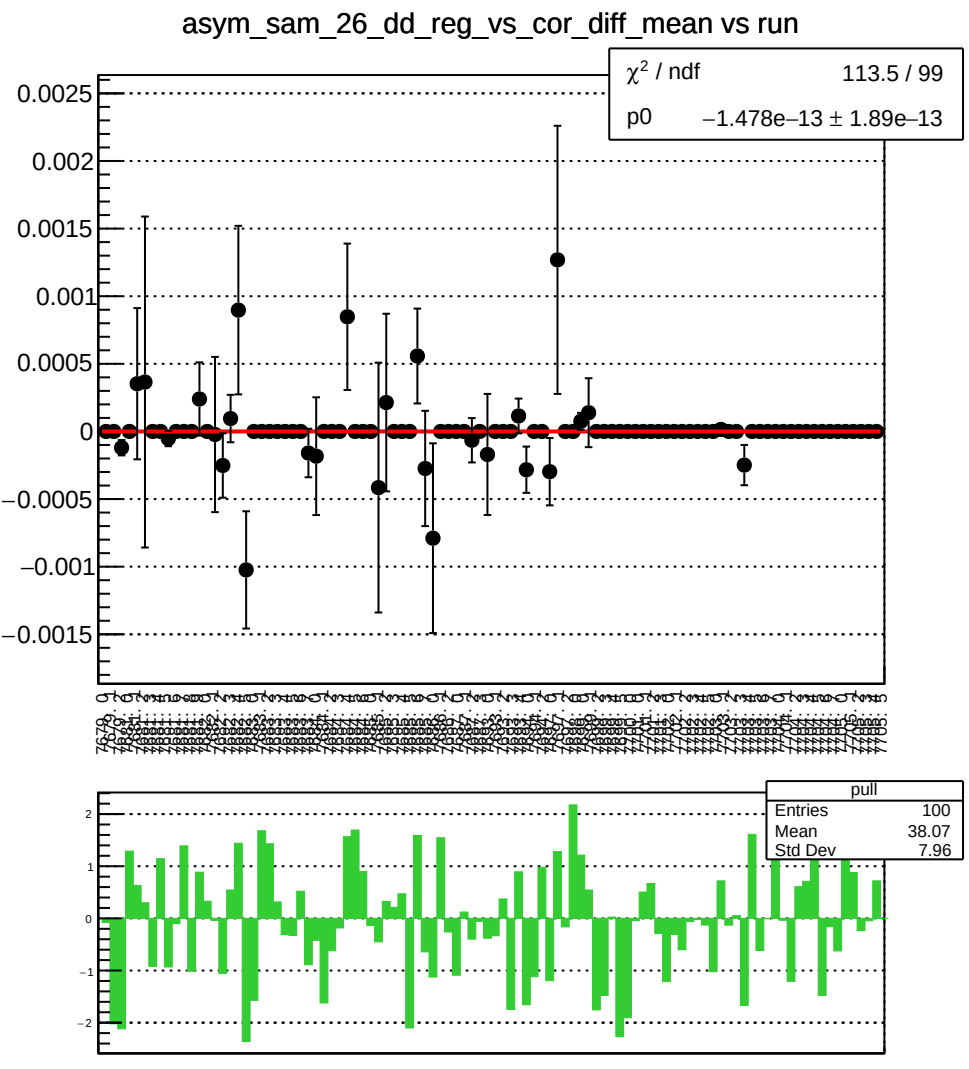

pull1D
Entries 100
Mean 0.009479
Std Dev 0.911
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

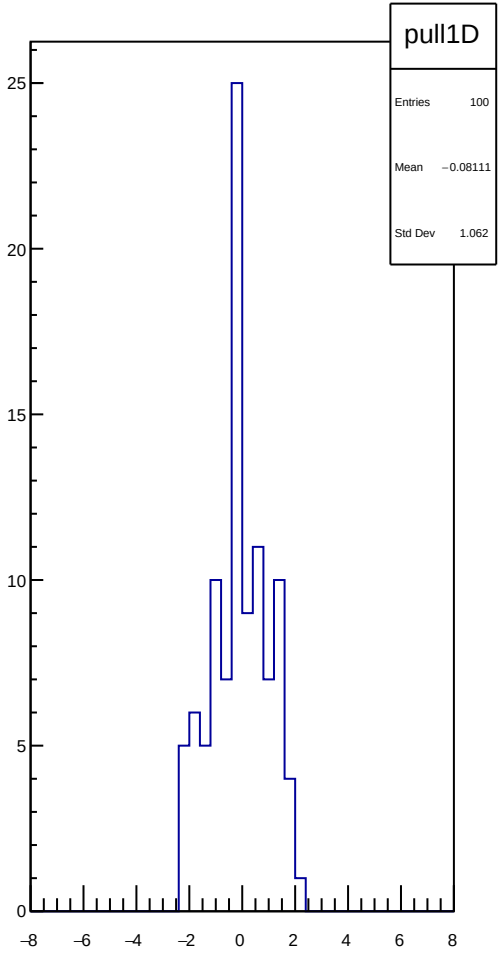

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 9961 / 99
p0 4217 ± 3.047
5000
4800
4600
4400
4200
4000
3800
3600
3400

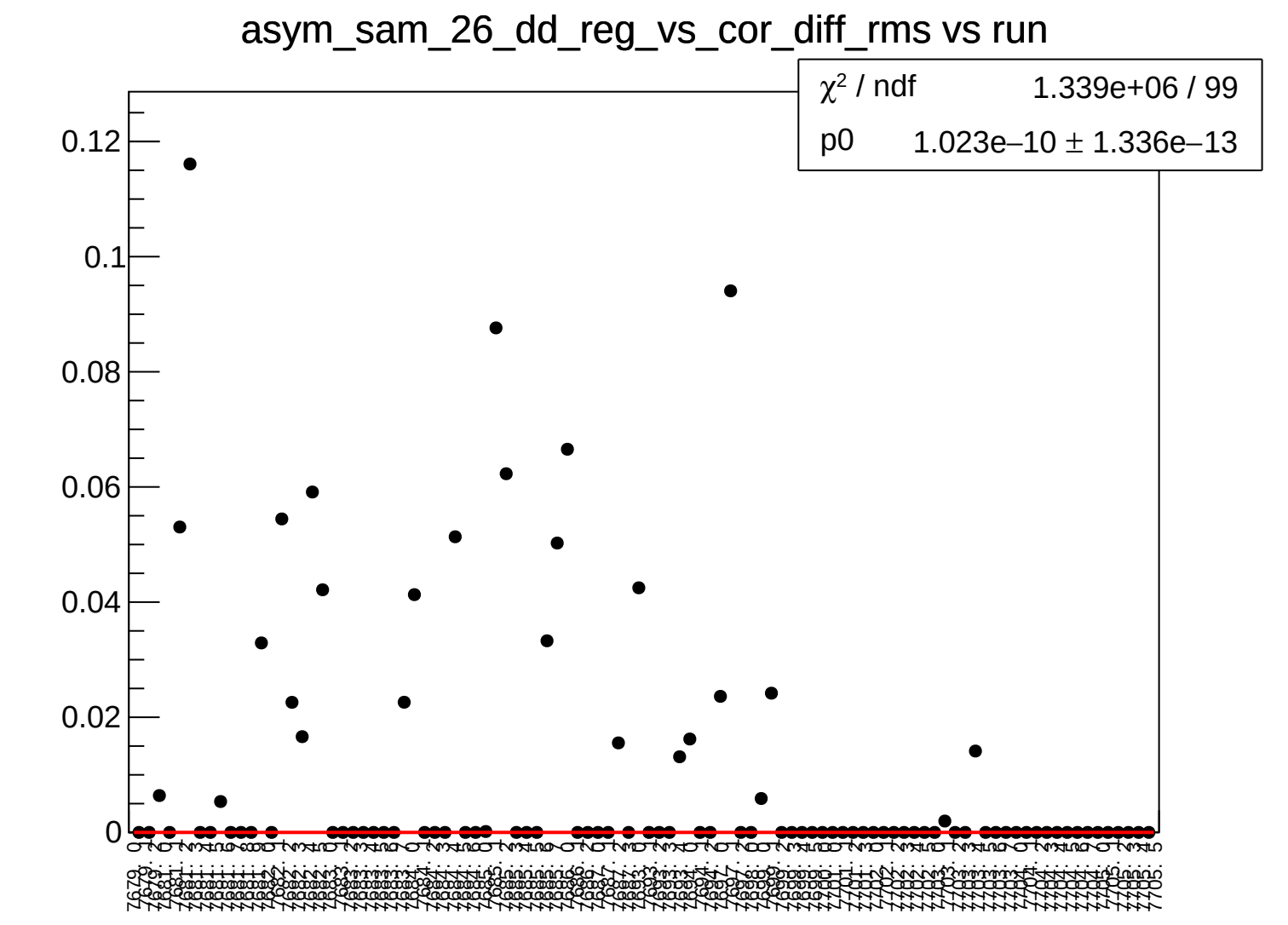

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 82.3 / 99
p0 −374.9 ± 4262
150
100
50
0
−50
−100
−150
pull
Entries 100
Mean −314.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

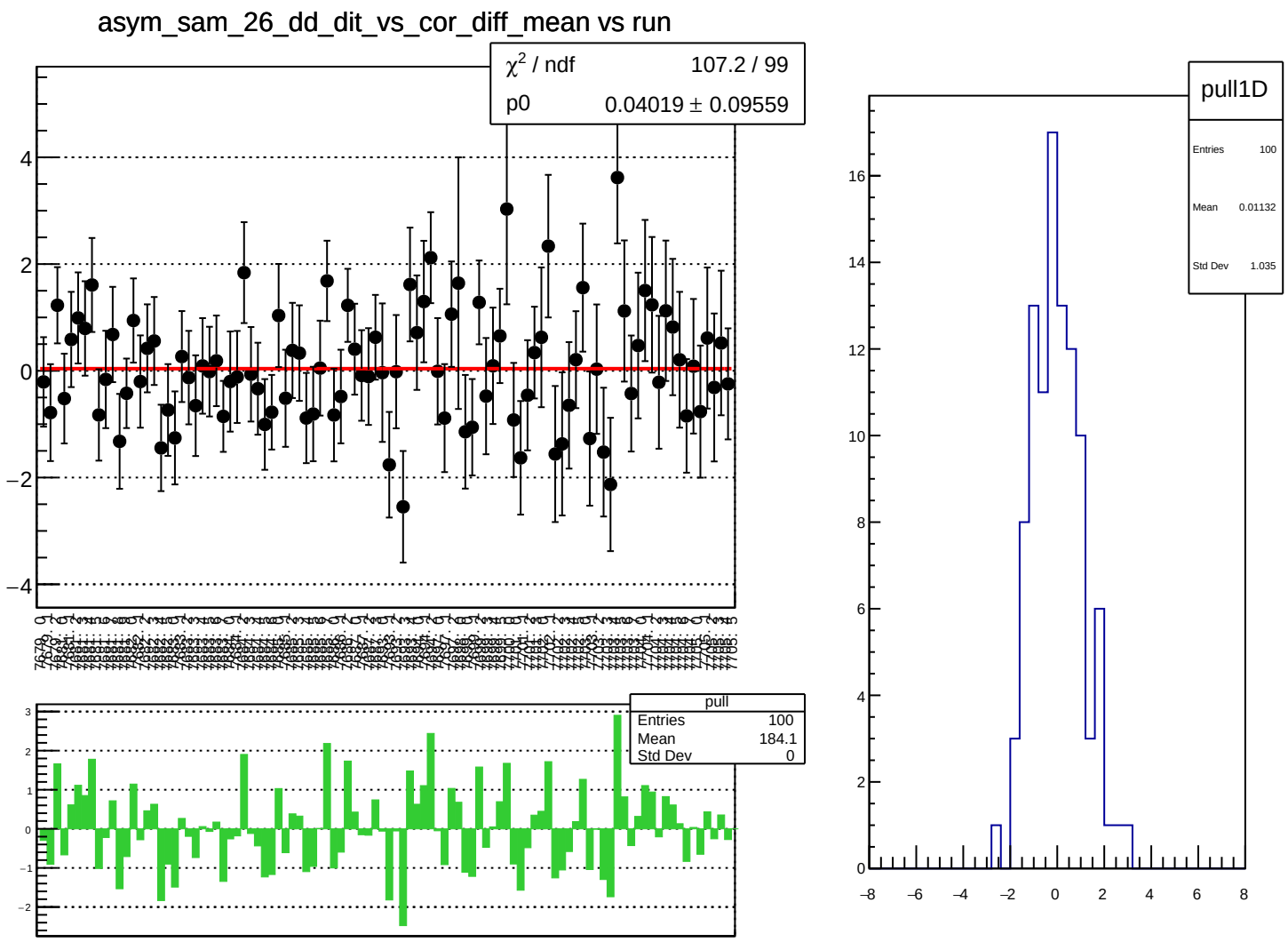

pull1D
Entries 100
Mean −0.01037
Std Dev 0.9071
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

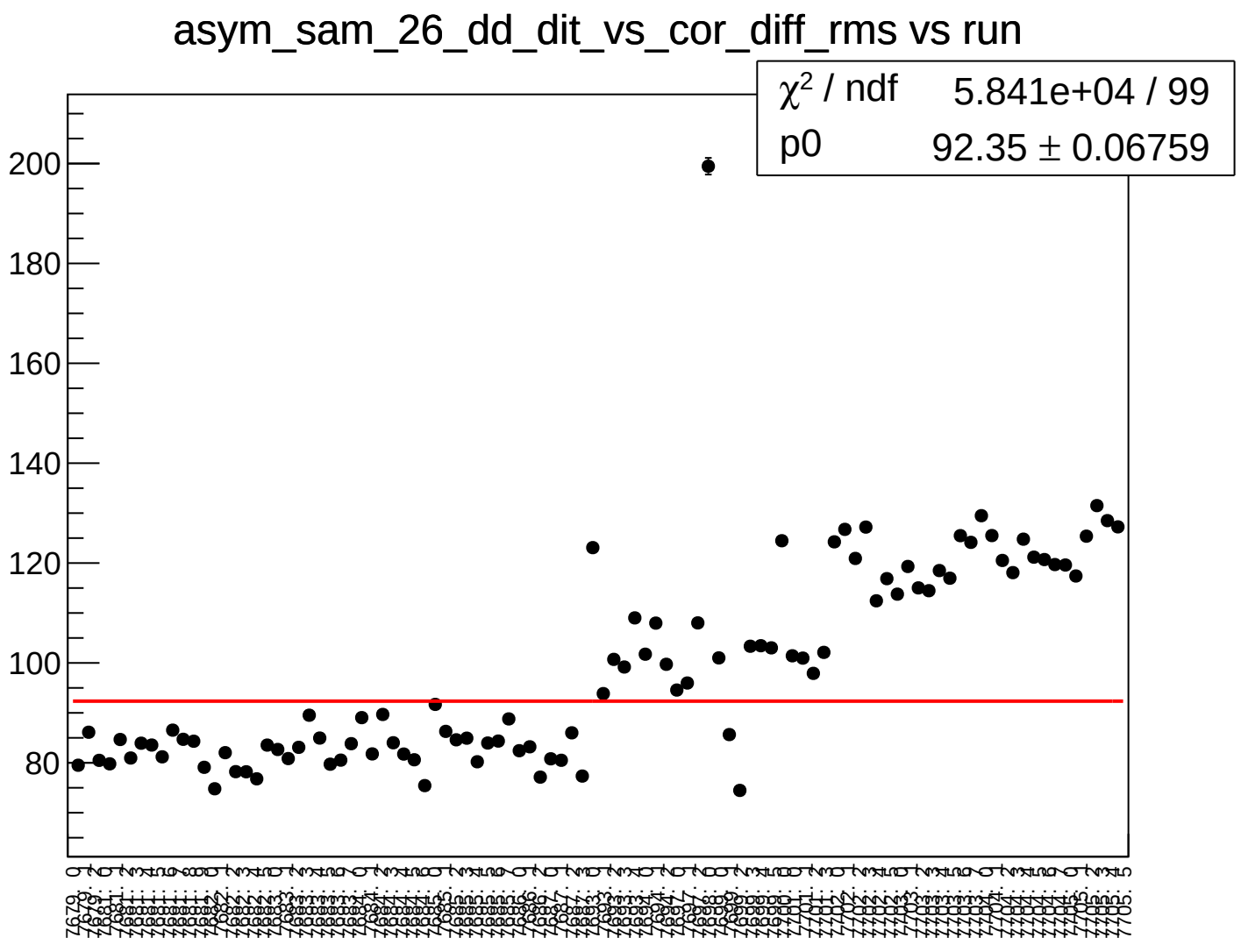

asym_sam_26_dd_rms vs run
χ² / ndf 1.007e+04 / 99
p0 4171 ± 3.014
5000
4800
4600
4400
4200
4000
3800
3600
3400

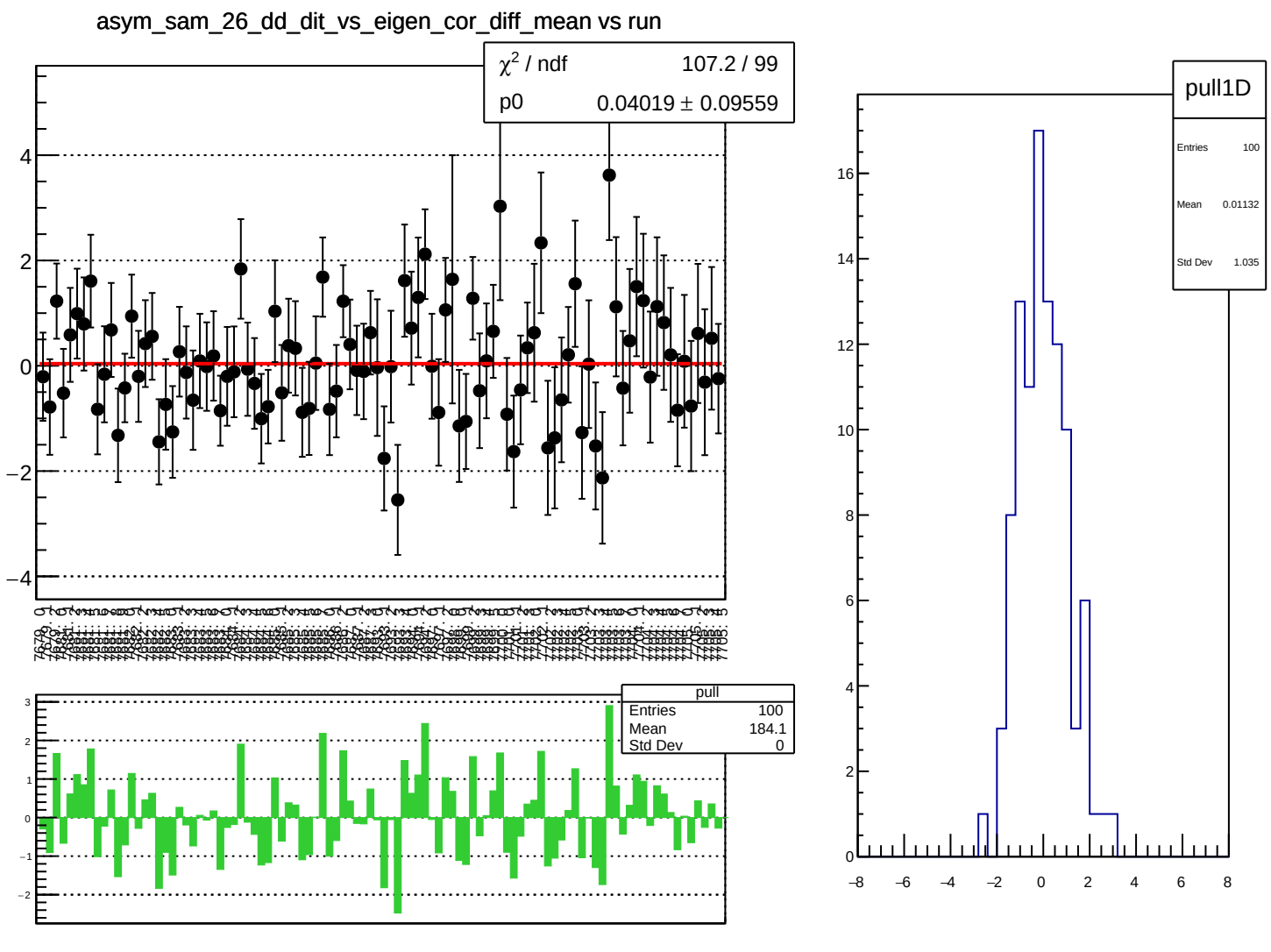

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 113.5 / 99
p0 −1.478e−13 ± 1.89e−13
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 100
Mean 38.07
Std Dev 7.96
2
1
0
−1
−2

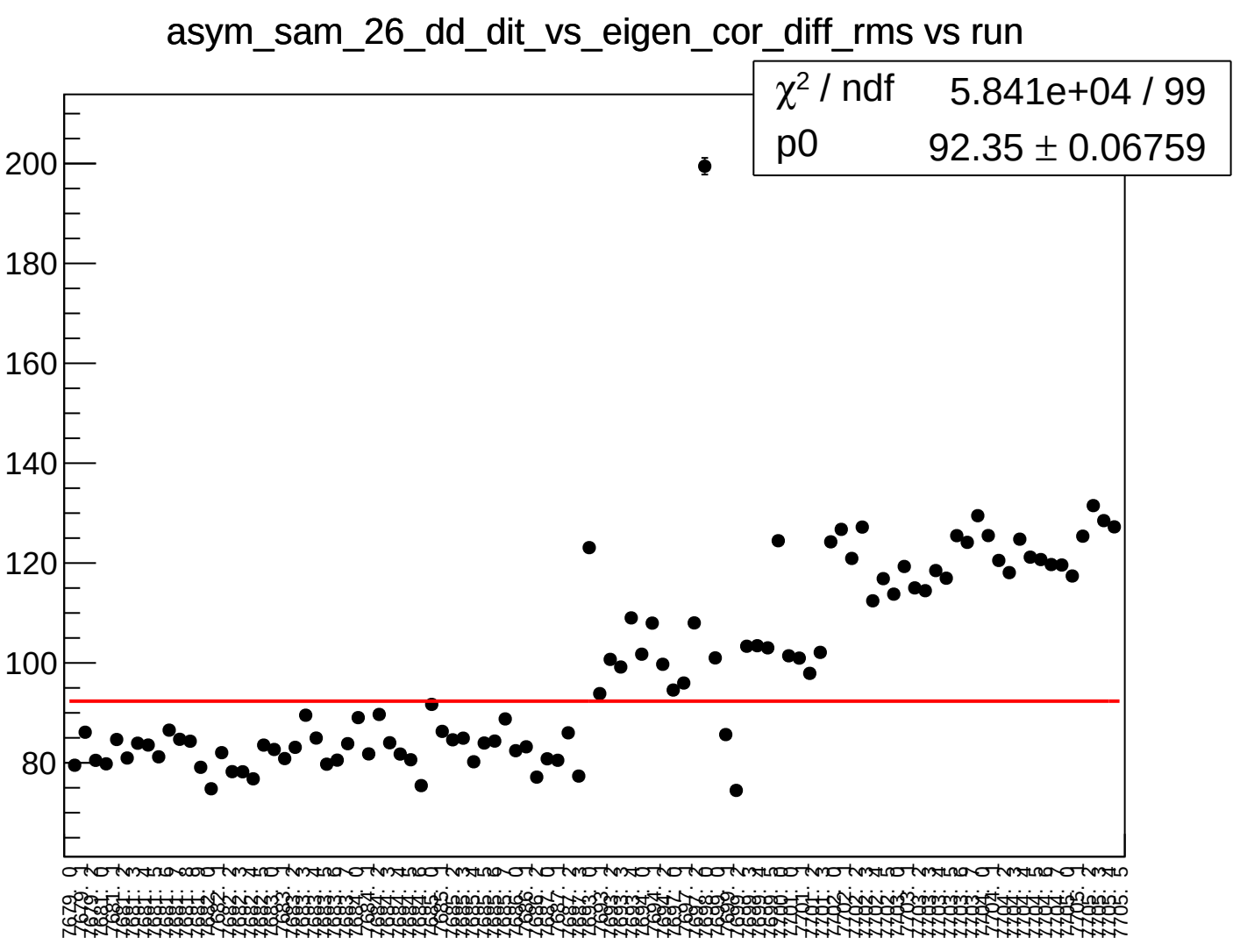

pull1D
Entries 100
Mean −0.08111
Std Dev 1.062
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

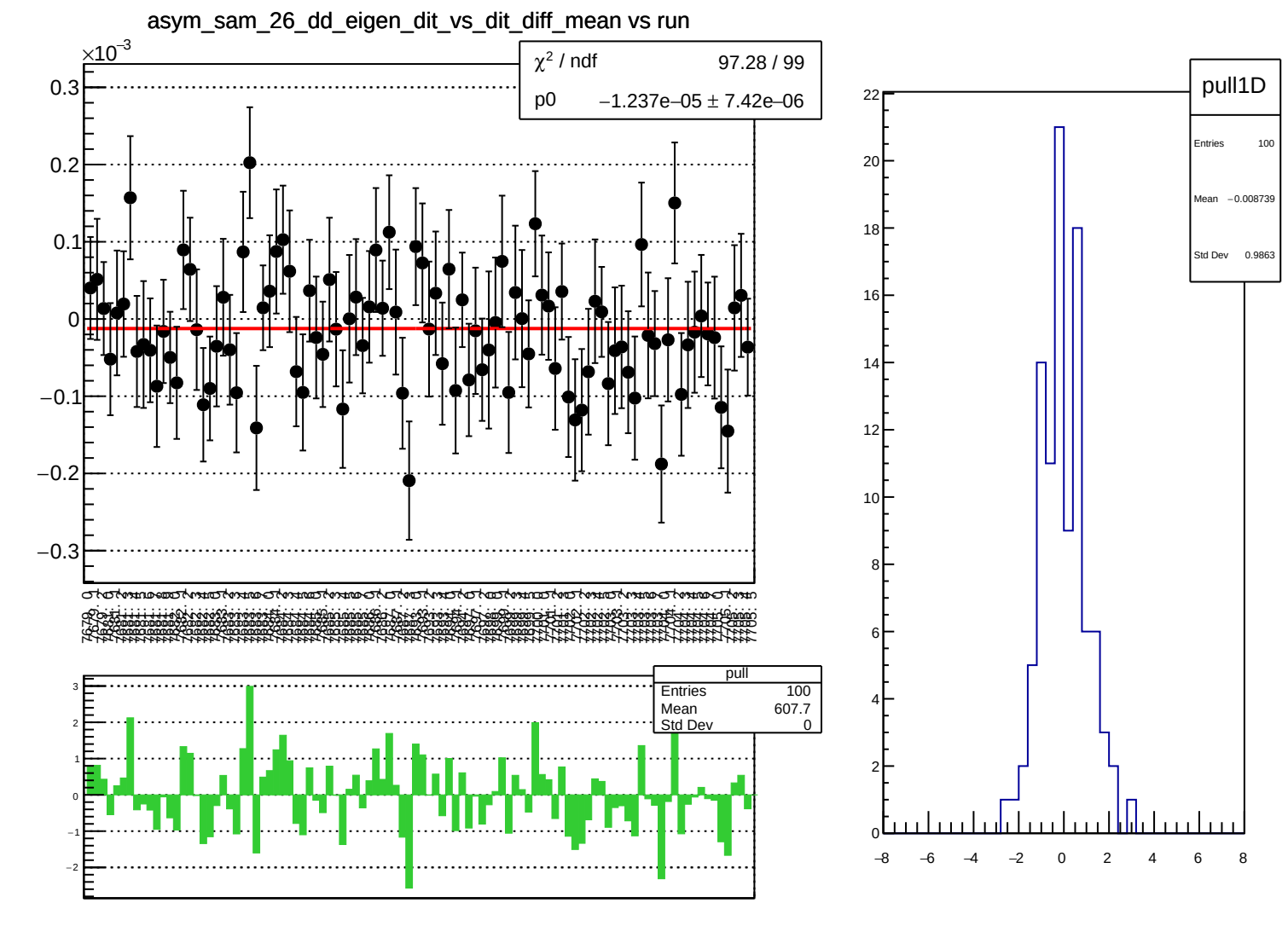

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.339e+06 / 99
p0 1.023e−10 ± 1.336e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

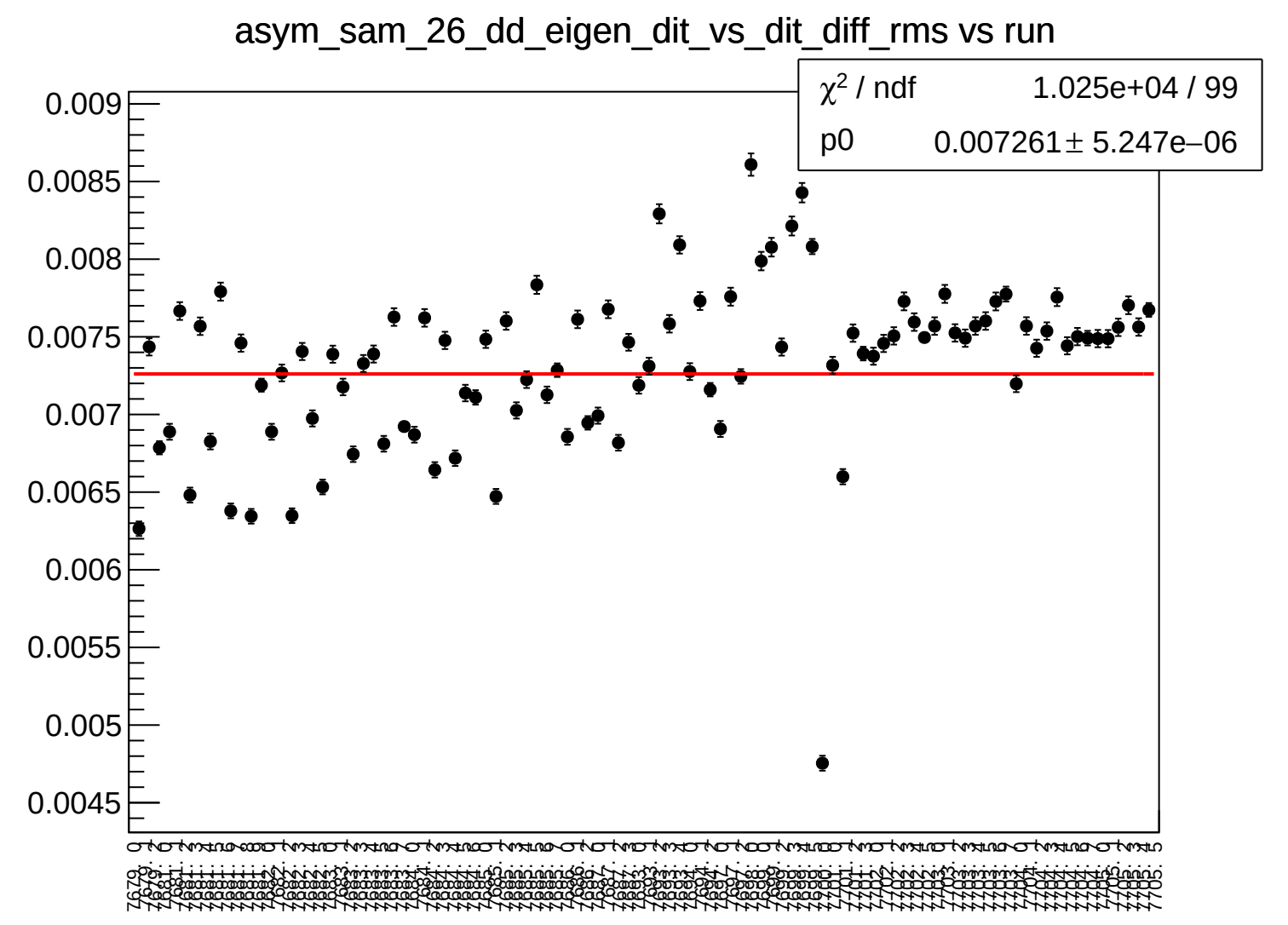

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 107.2 / 99
p0 0.04019 ± 0.09559
pull
Entries 100
Mean 184.1
Std Dev 0
pull1D
Entries 100
Mean 0.01132
Std Dev 1.035

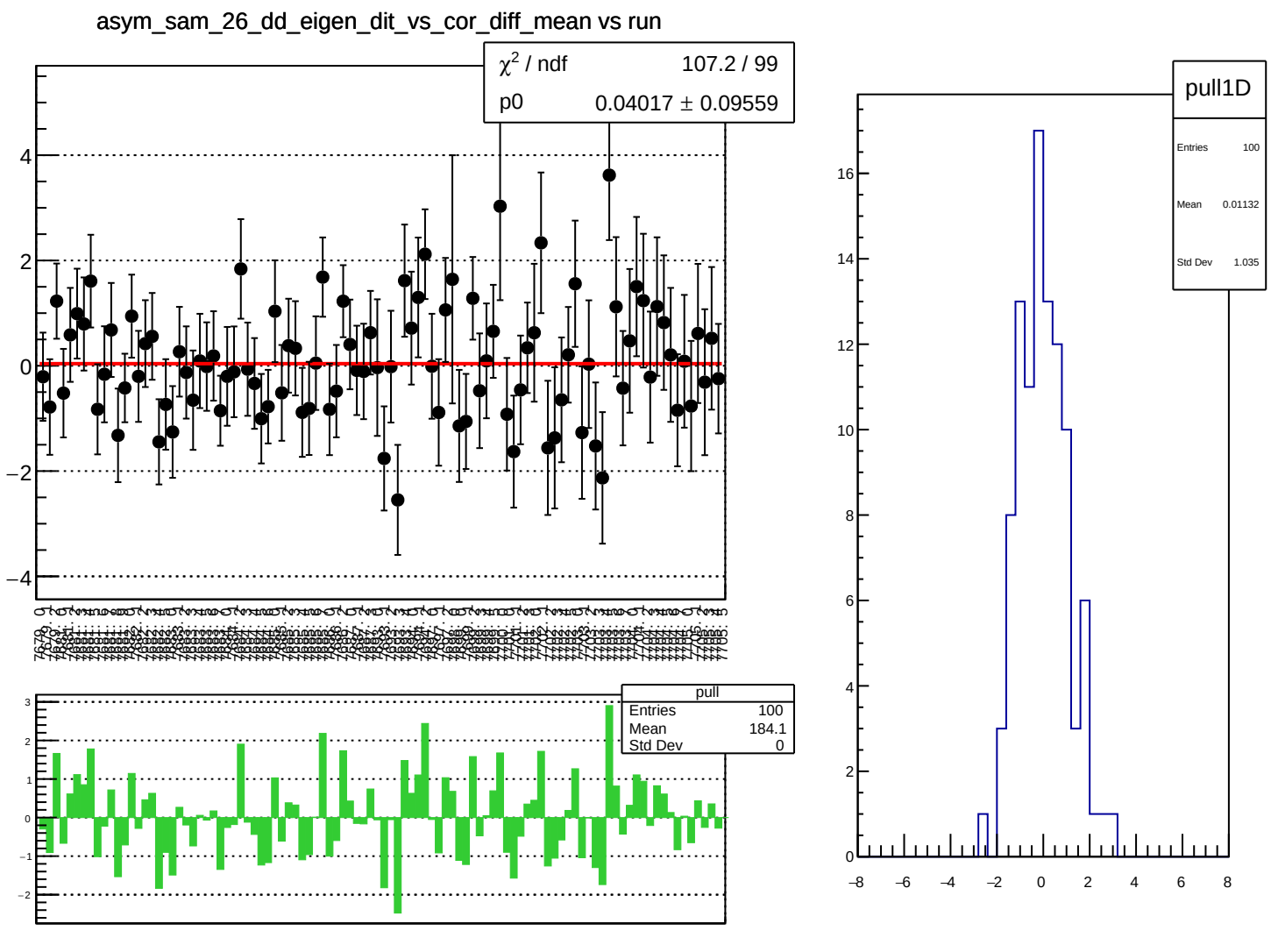

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.841e+04 / 99
p0 92.35 ± 0.06759
200
180
160
140
120
100
80

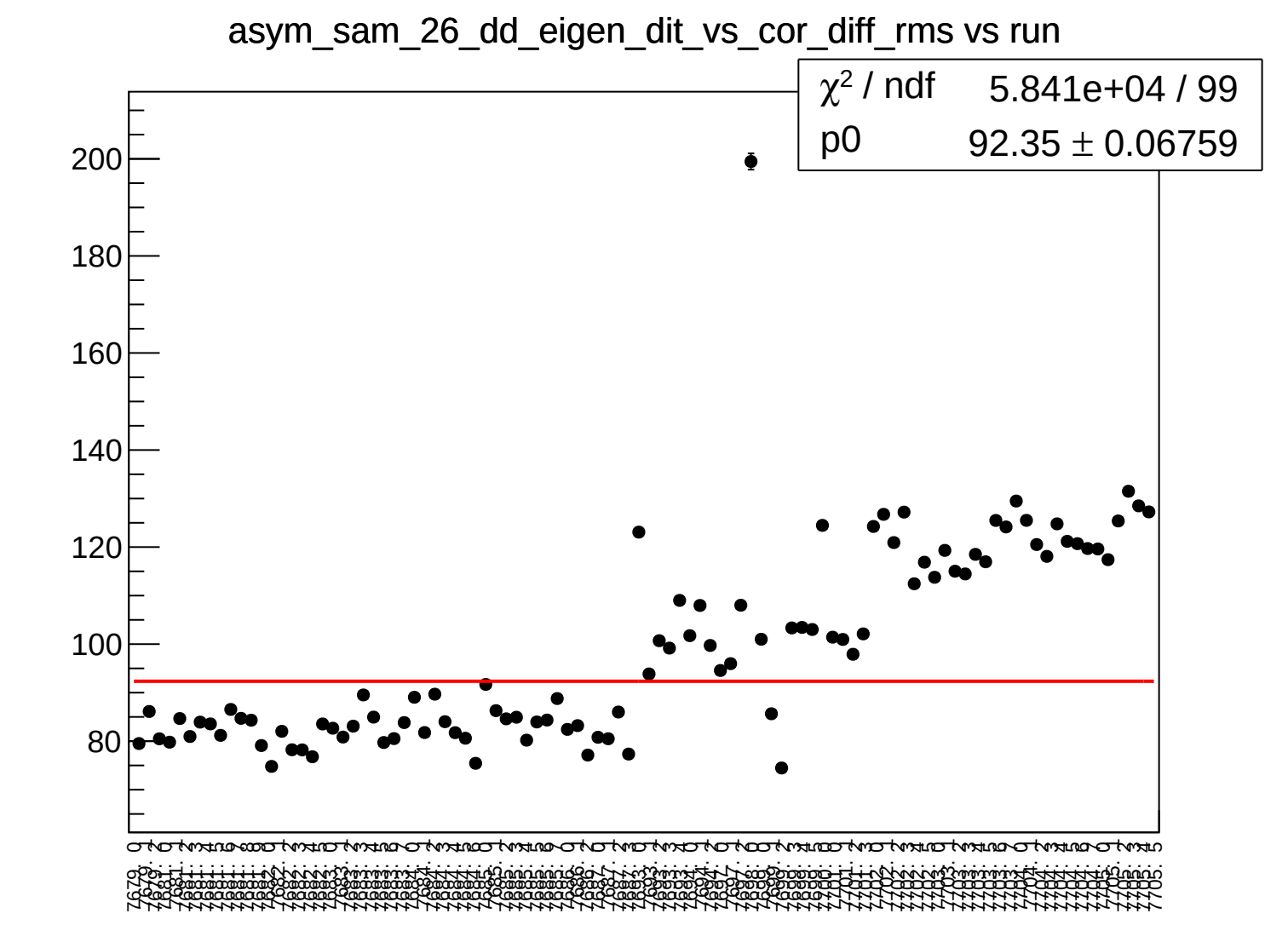

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.2 / 99
p0 0.04019 ± 0.09559
pull
Entries 100
Mean 184.1
Std Dev 0
pull1D
Entries 100
Mean 0.01132
Std Dev 1.035

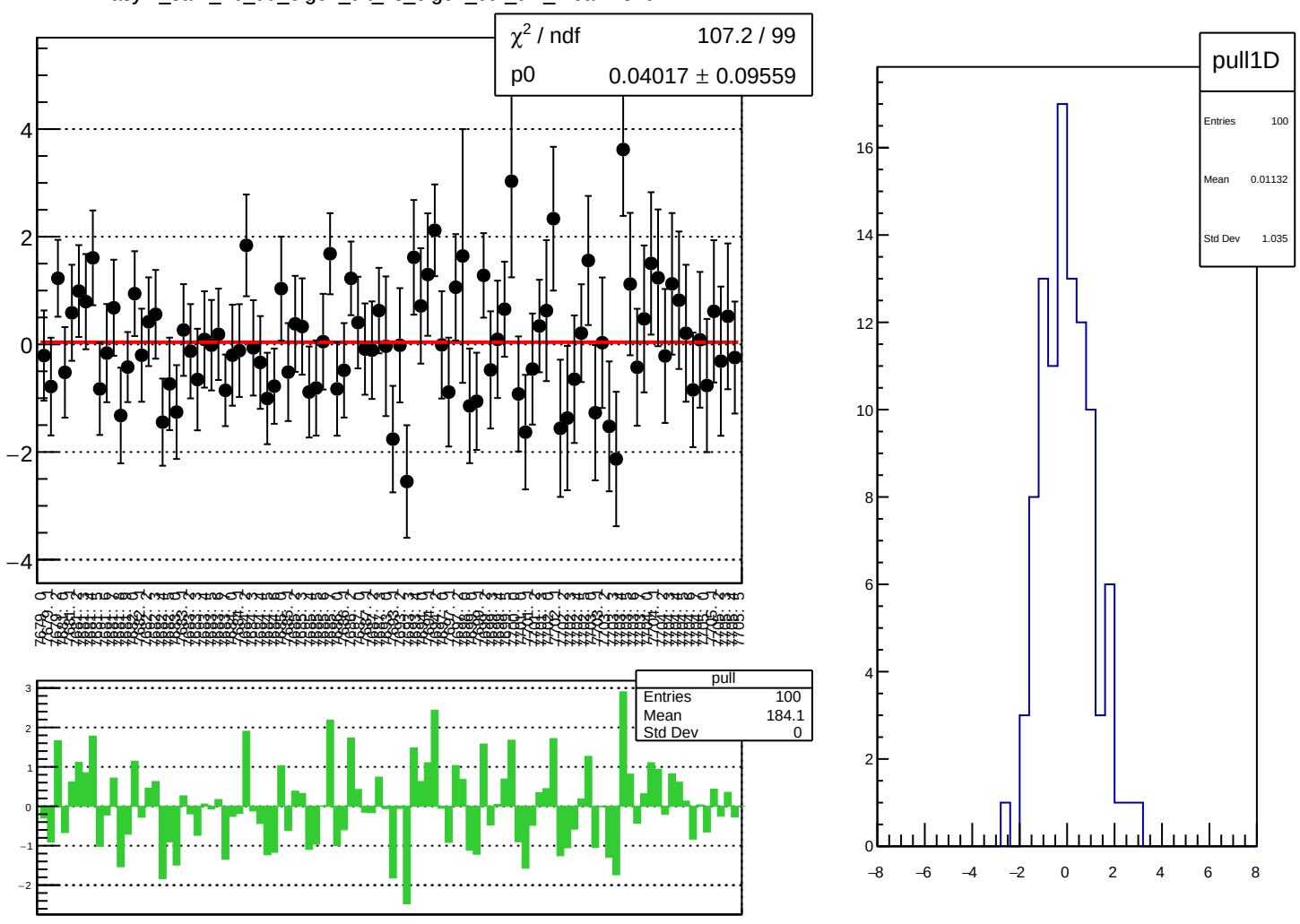

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.841e+04 / 99
p0 92.35 ± 0.06759
200
180
160
140
120
100
80

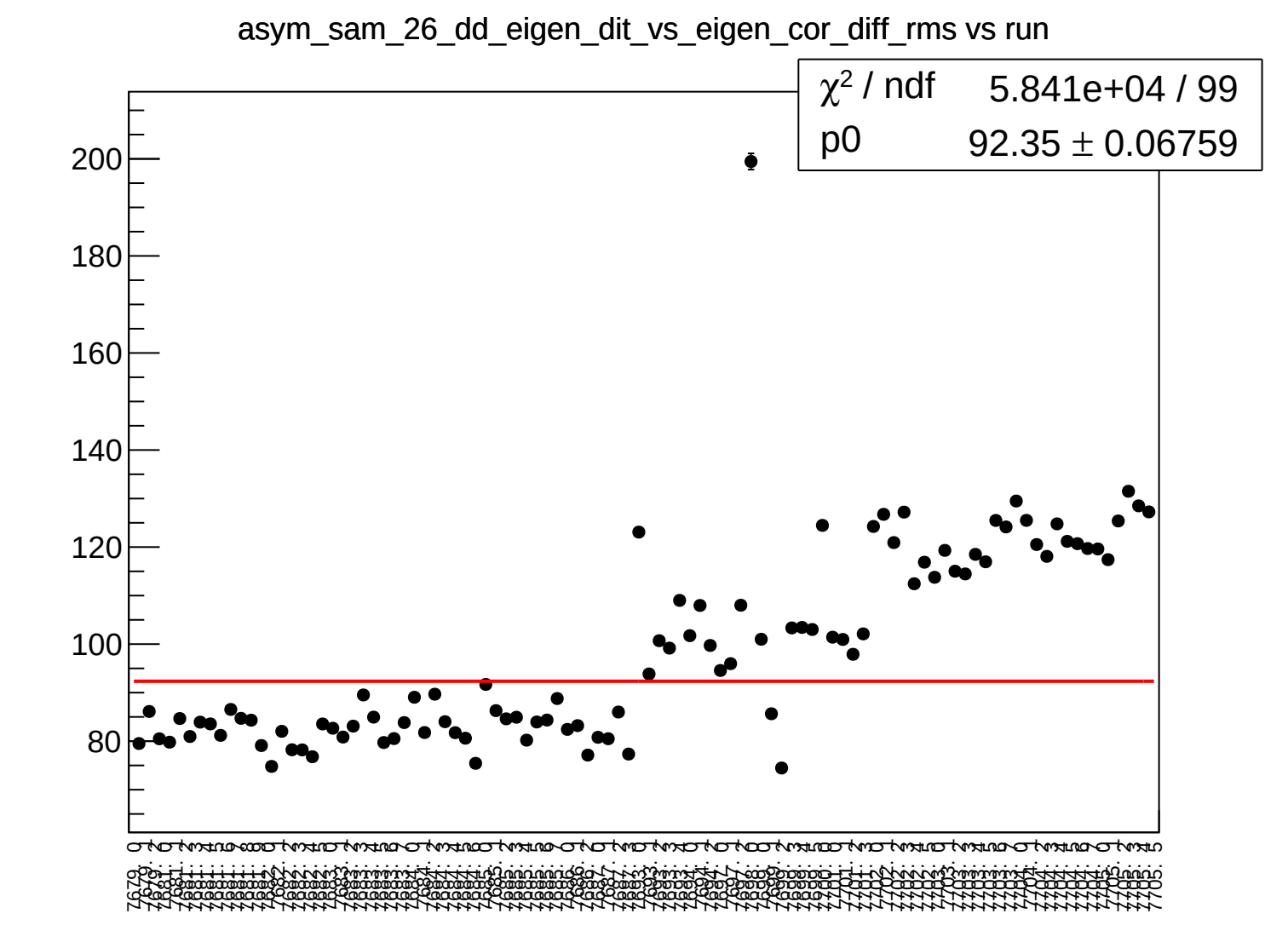

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.28 / 99
p0 −1.237e−05 ± 7.42e−06
pull
Entries 100
Mean 607.7
Std Dev 0
pull1D
Entries 100
Mean −0.008739
Std Dev 0.9863

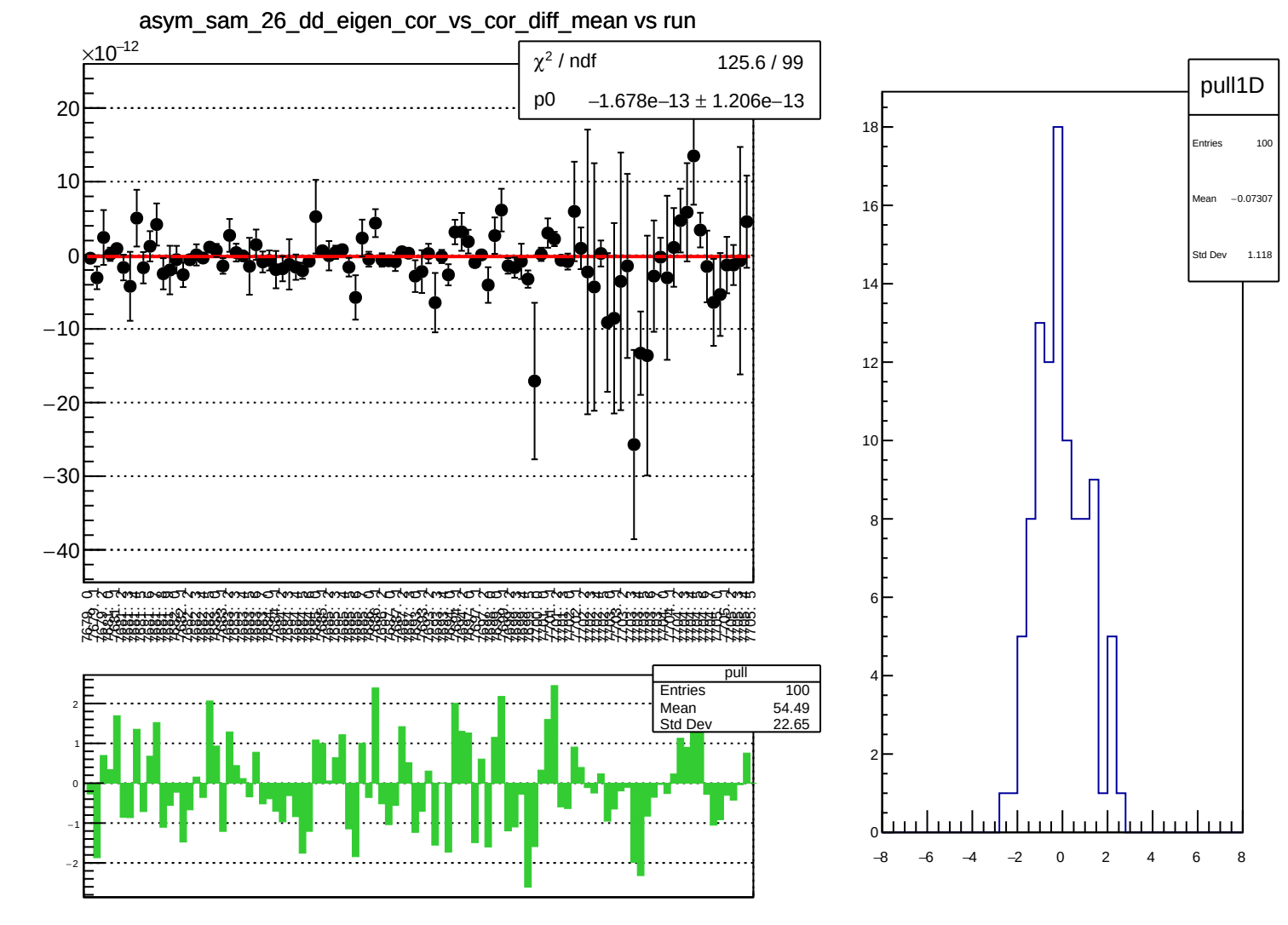

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.025e+04 / 99
p0 0.007261 ± 5.247e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045

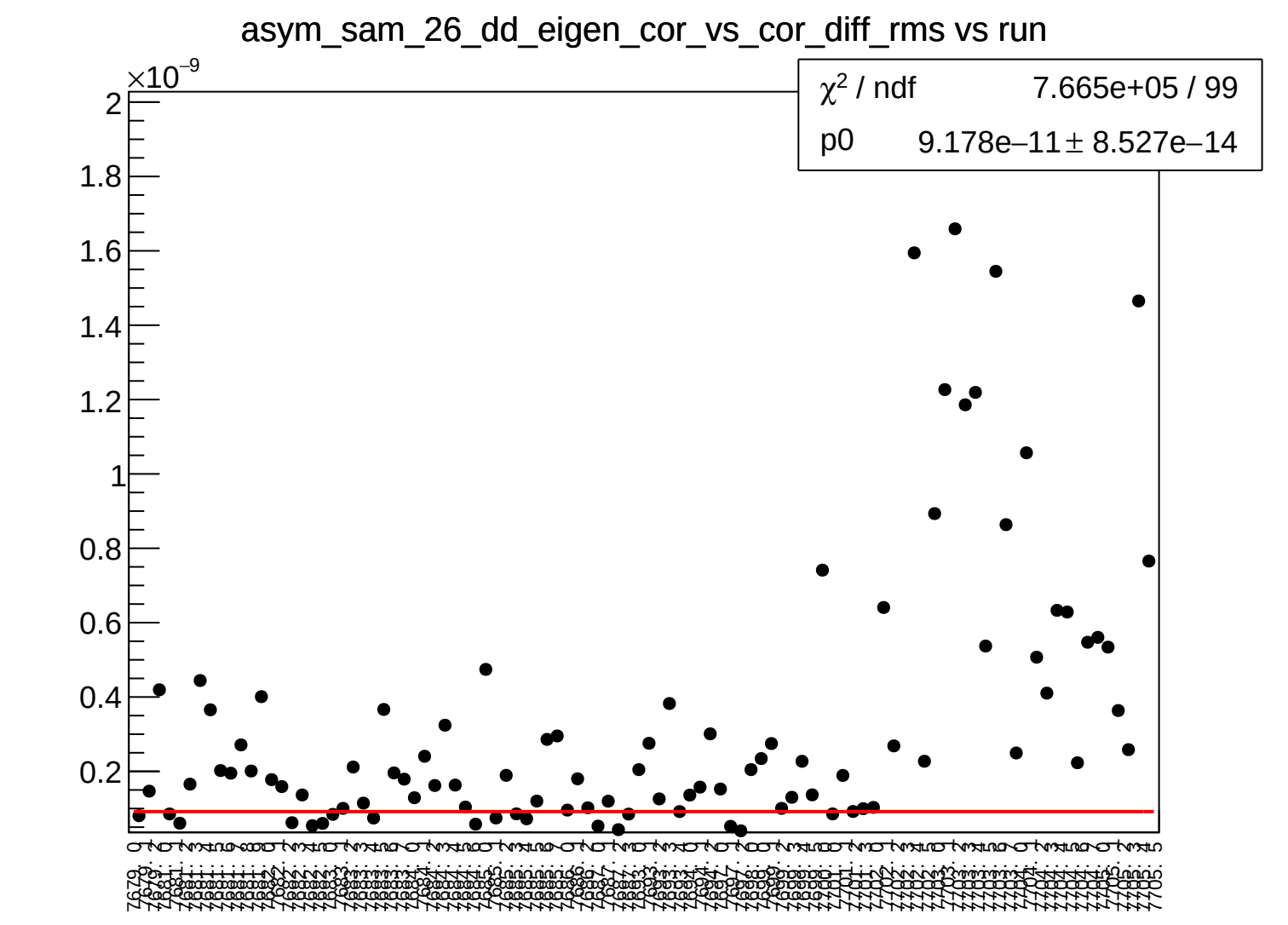

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.2 / 99
p0 0.04017 ± 0.09559
pull
Entries 100
Mean 184.1
Std Dev 0
pull1D
Entries 100
Mean 0.01132
Std Dev 1.035

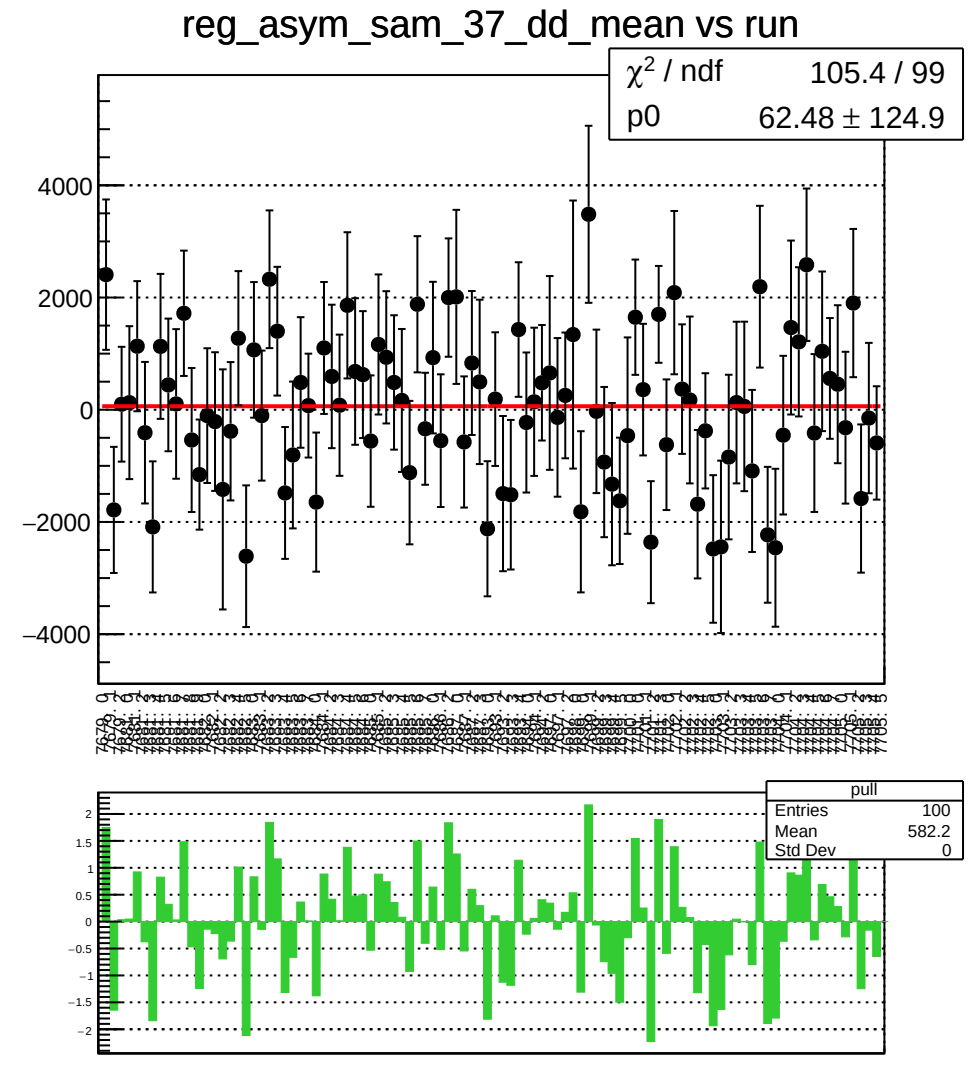

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.841e+04 / 99
p0 92.35 ± 0.06759
200
180
160
140
120
100
80

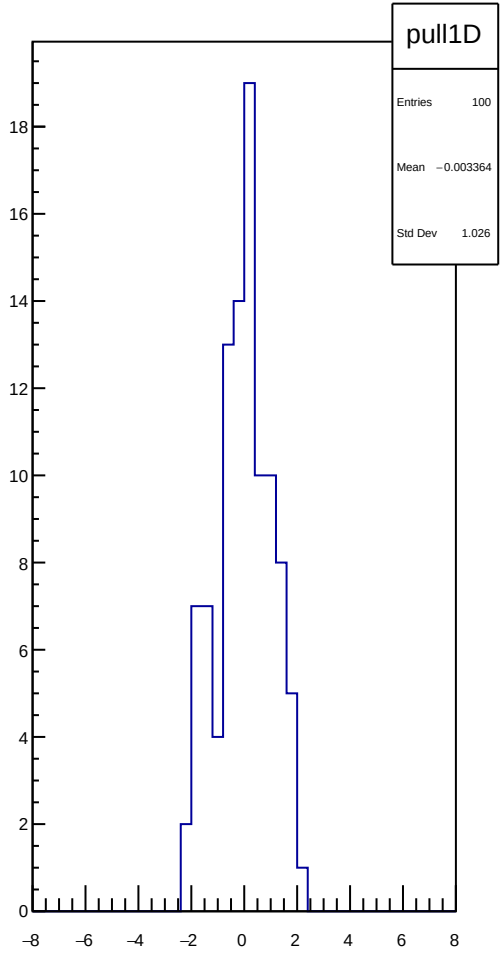

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.2 / 99
p0 0.04017 ± 0.09559
pull
Entries 100
Mean 184.1
Std Dev 0
pull1D
Entries 100
Mean 0.01132
Std Dev 1.035

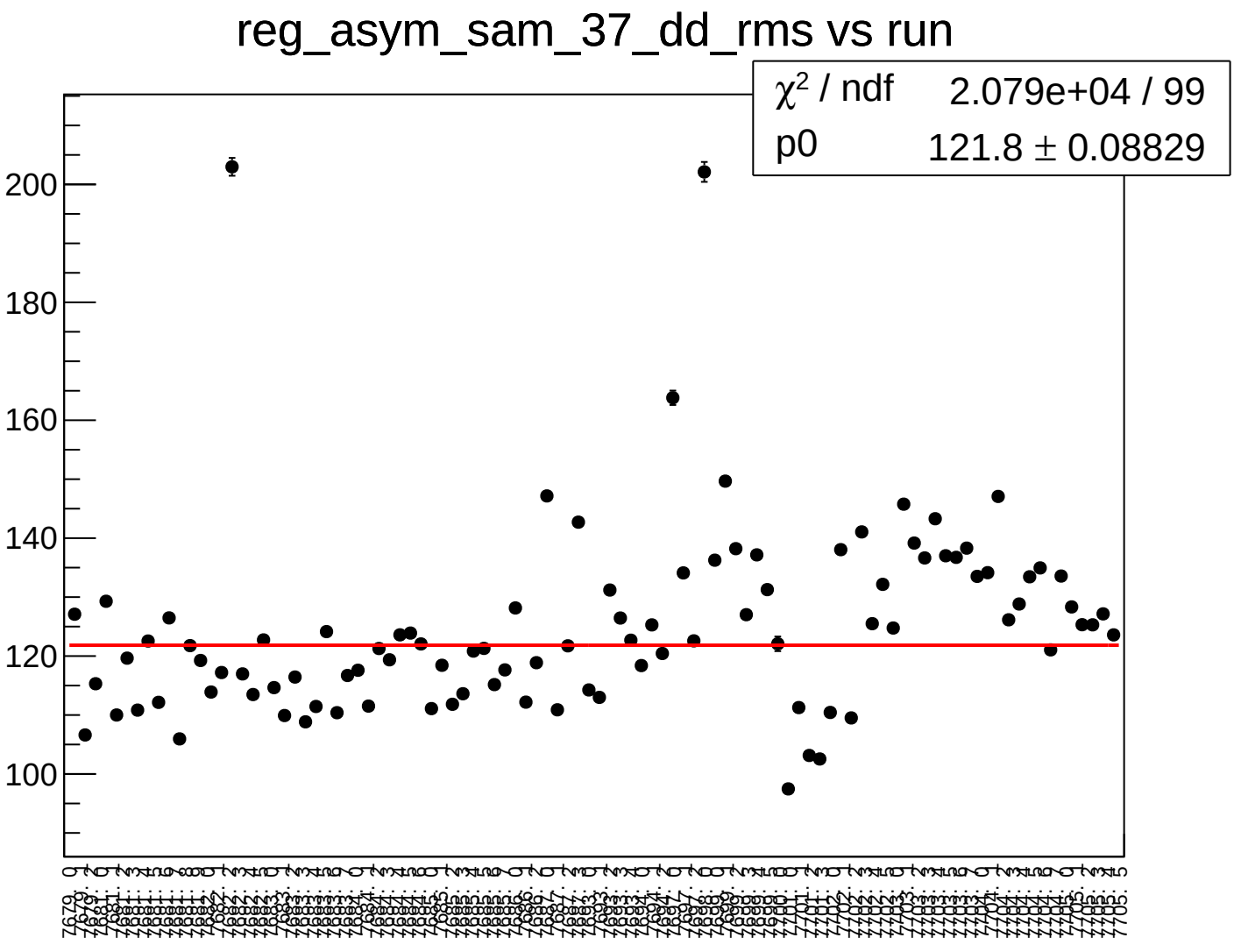

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.841e+04 / 99
p0 92.35 ± 0.06759
200
180
160
140
120
100
80

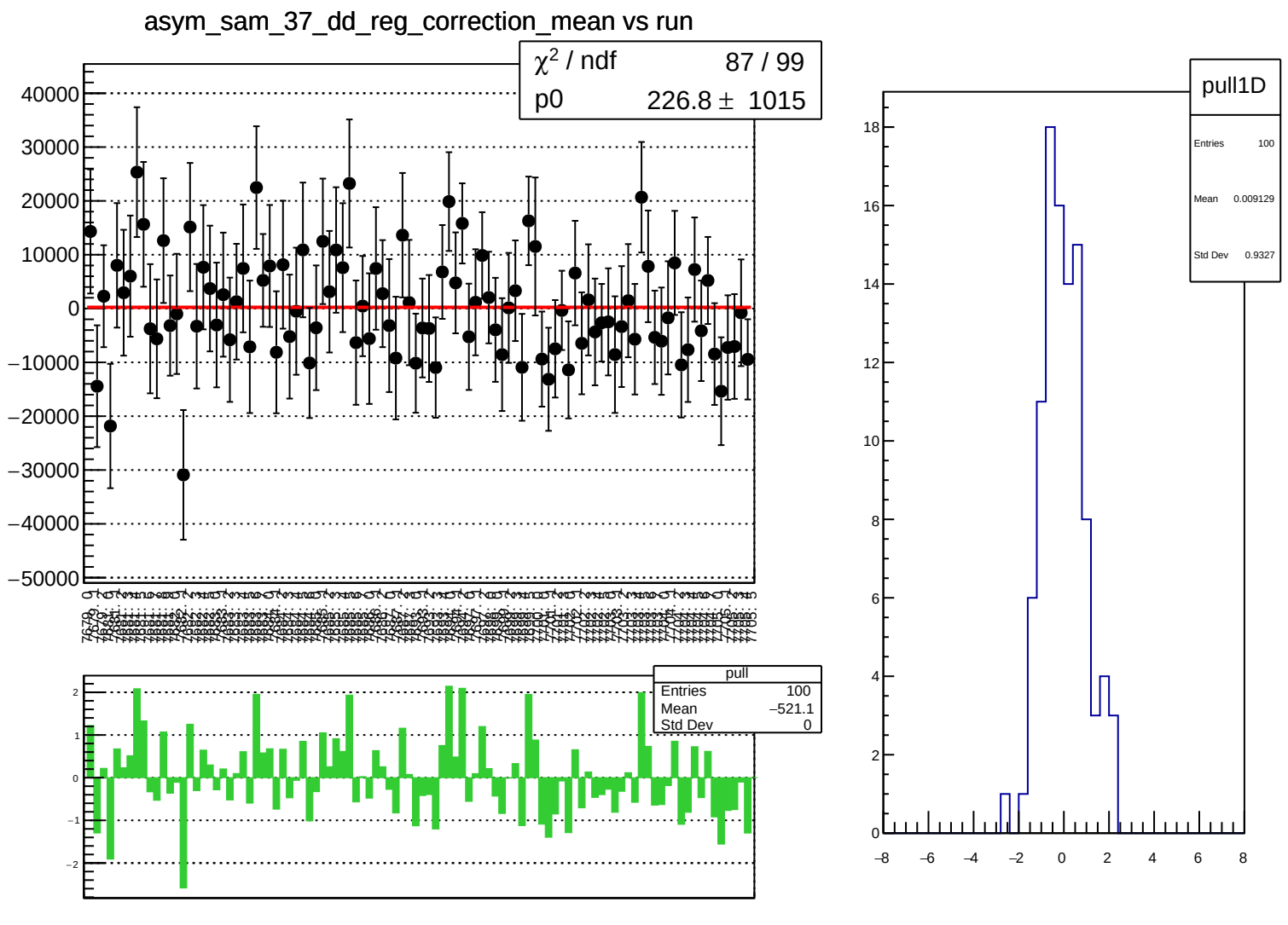

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 125.6 / 99
p0 −1.678e−13 ± 1.206e−13
pull
Entries 100
Mean 54.49
Std Dev 22.65
pull1D
Entries 100
Mean −0.07307
Std Dev 1.118

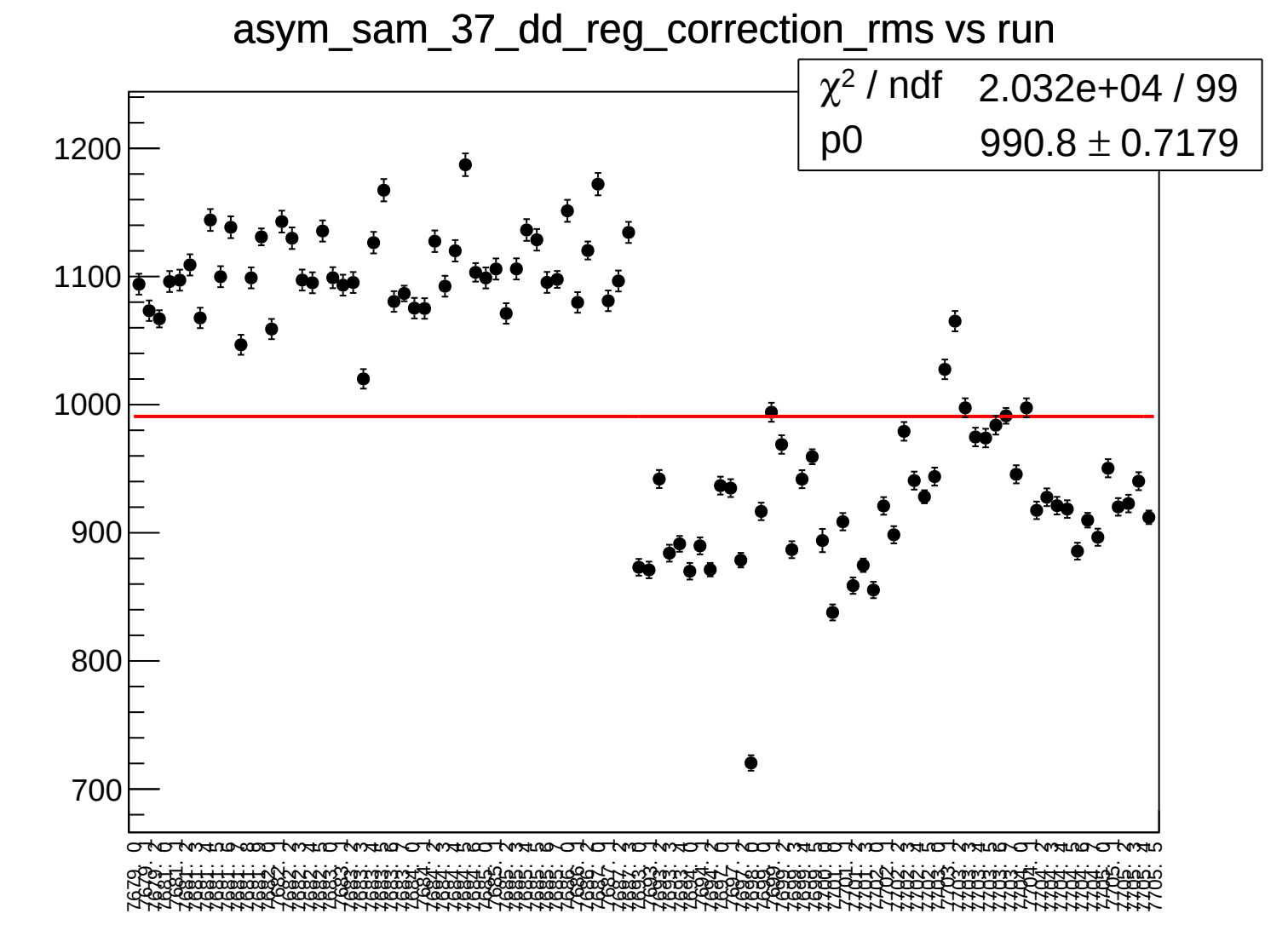

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.665e+05 / 99
p0 9.178e−11 ± 8.527e−14
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

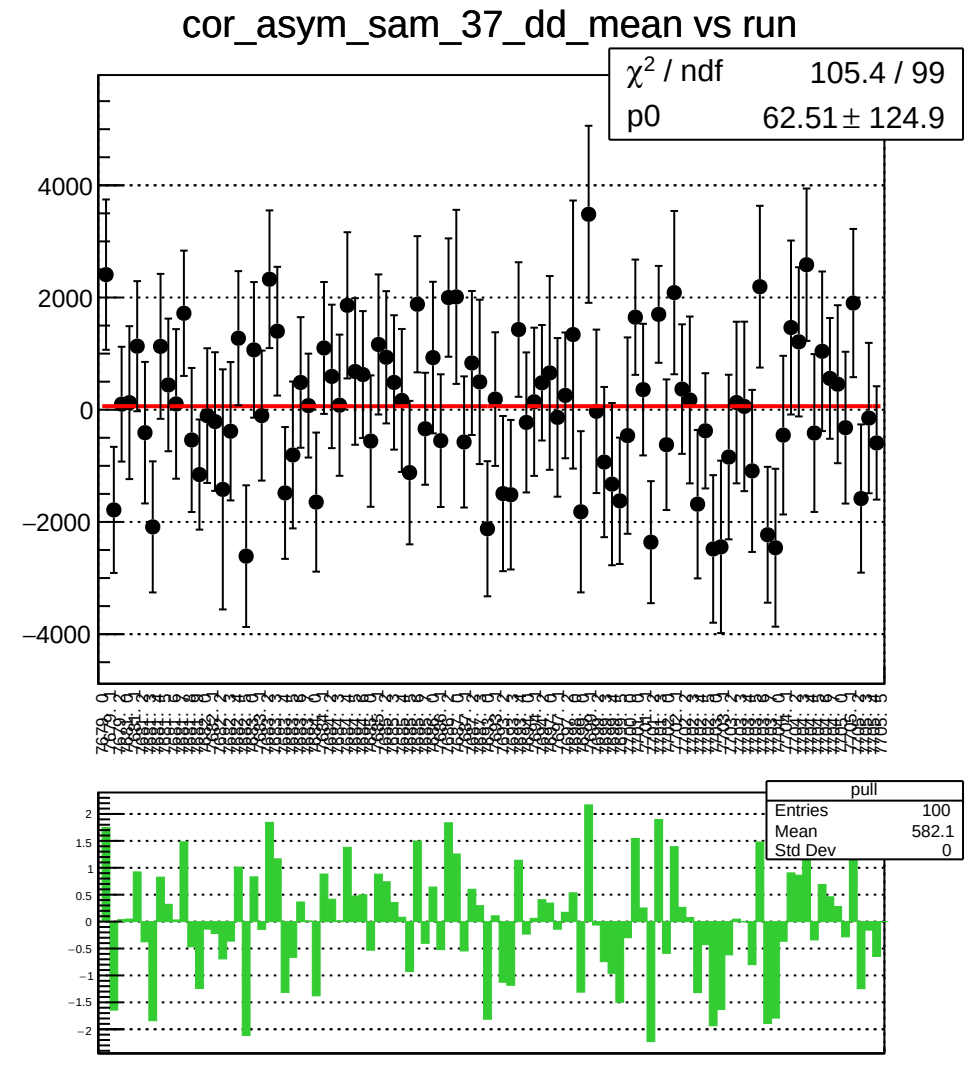

reg_asym_sam_37_dd_mean vs run
χ^2 / ndf 105.4 / 99
p0 62.48 ± 124.9
4000
2000
0
−2000
−4000
pull
Entries 100
Mean 582.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

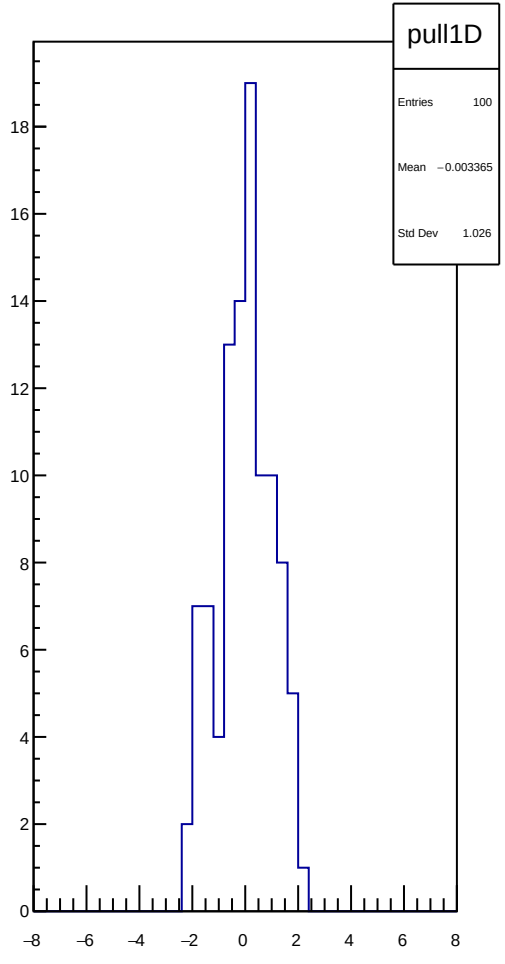

pull1D
Entries 100
Mean −0.003364
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

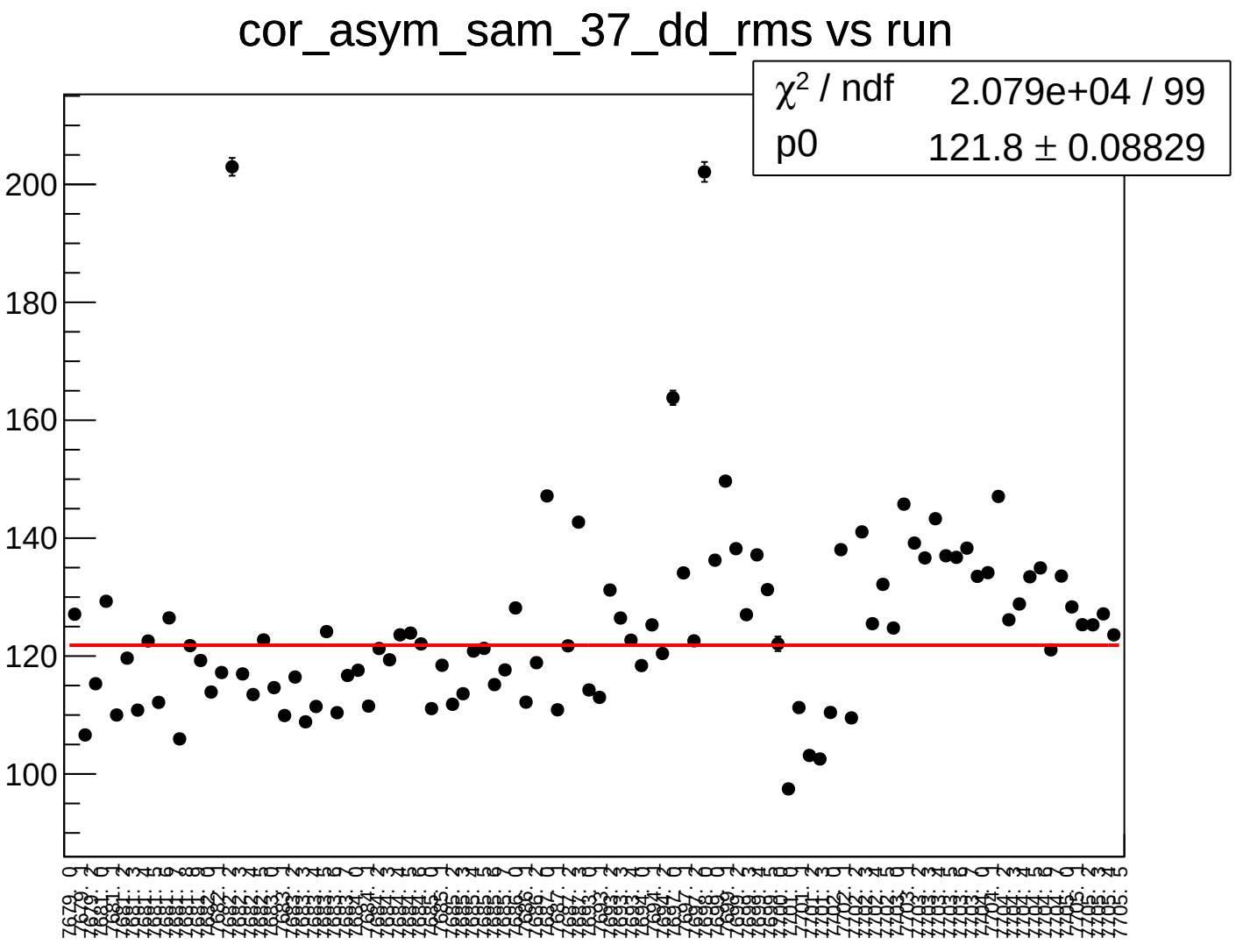

reg_asym_sam_37_dd_rms vs run
χ² / ndf 2.079e+04 / 99
p0 121.8 ± 0.08829
200
180
160
140
120
100

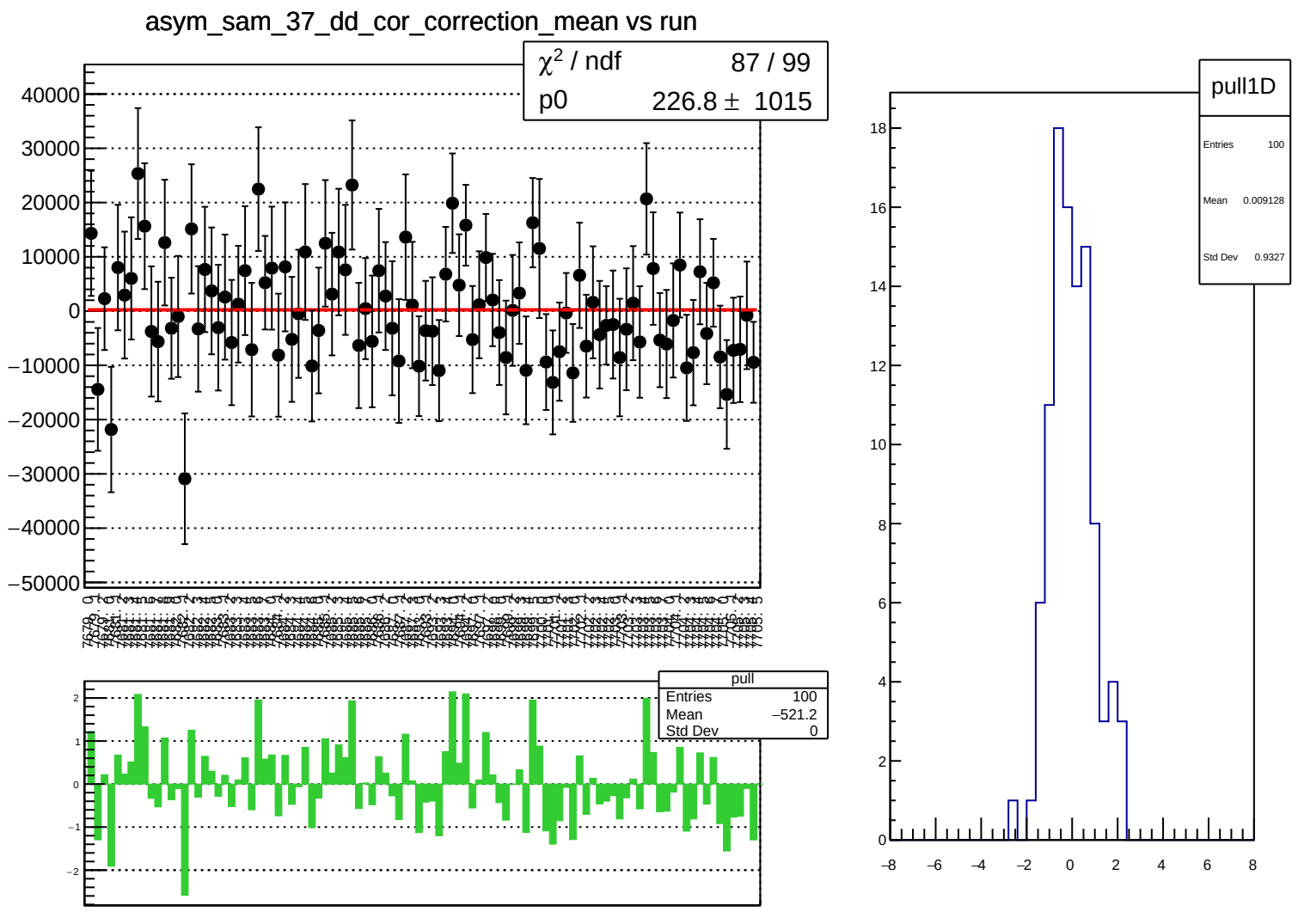

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 87 / 99
p0 226.8 ± 1015
pull
Entries 100
Mean −521.1
Std Dev 0
pull1D
Entries 100
Mean 0.009129
Std Dev 0.9327

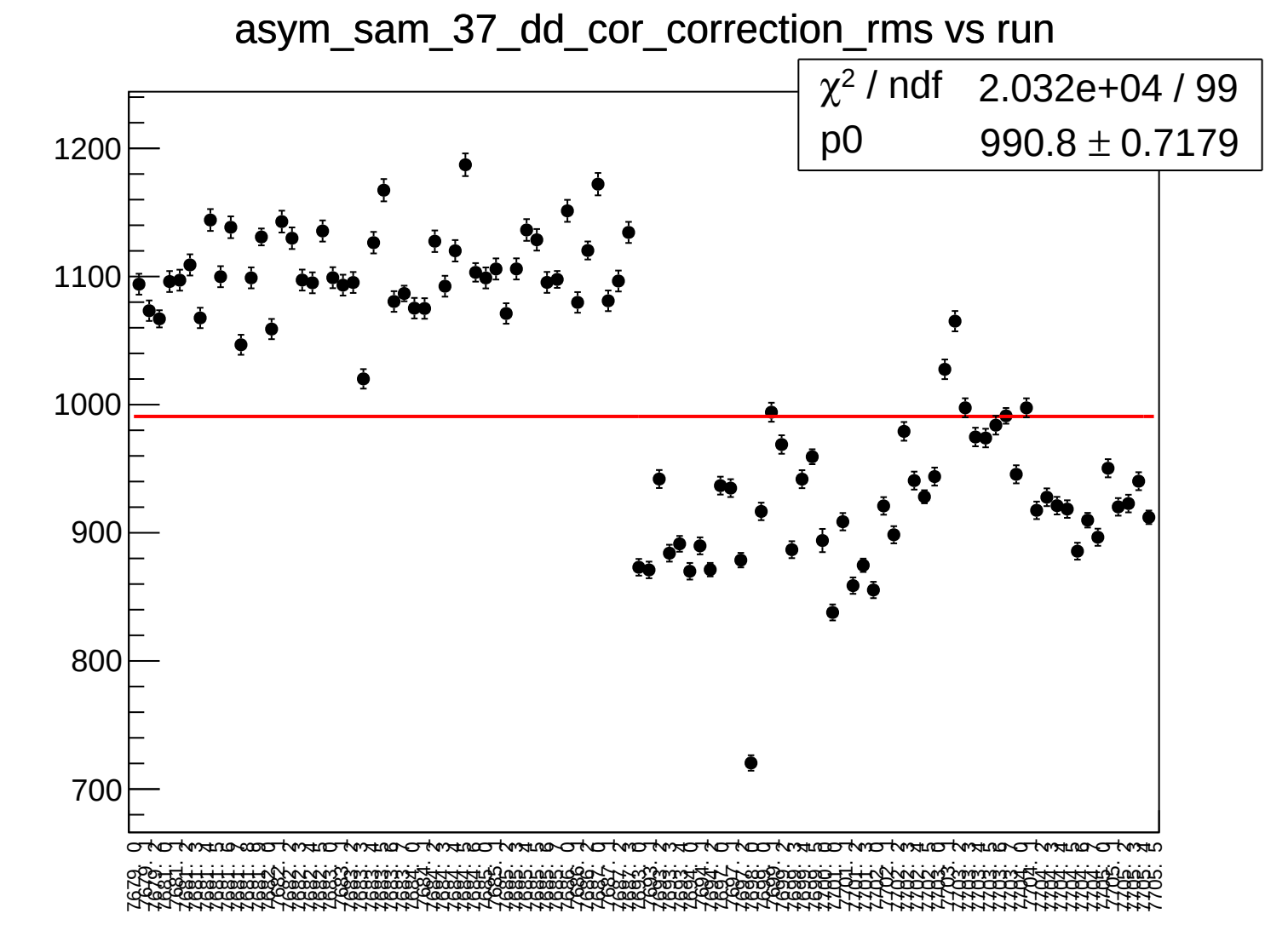

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 2.032e+04 / 99
p0 990.8 ± 0.7179
1200
1100
1000
900
800
700

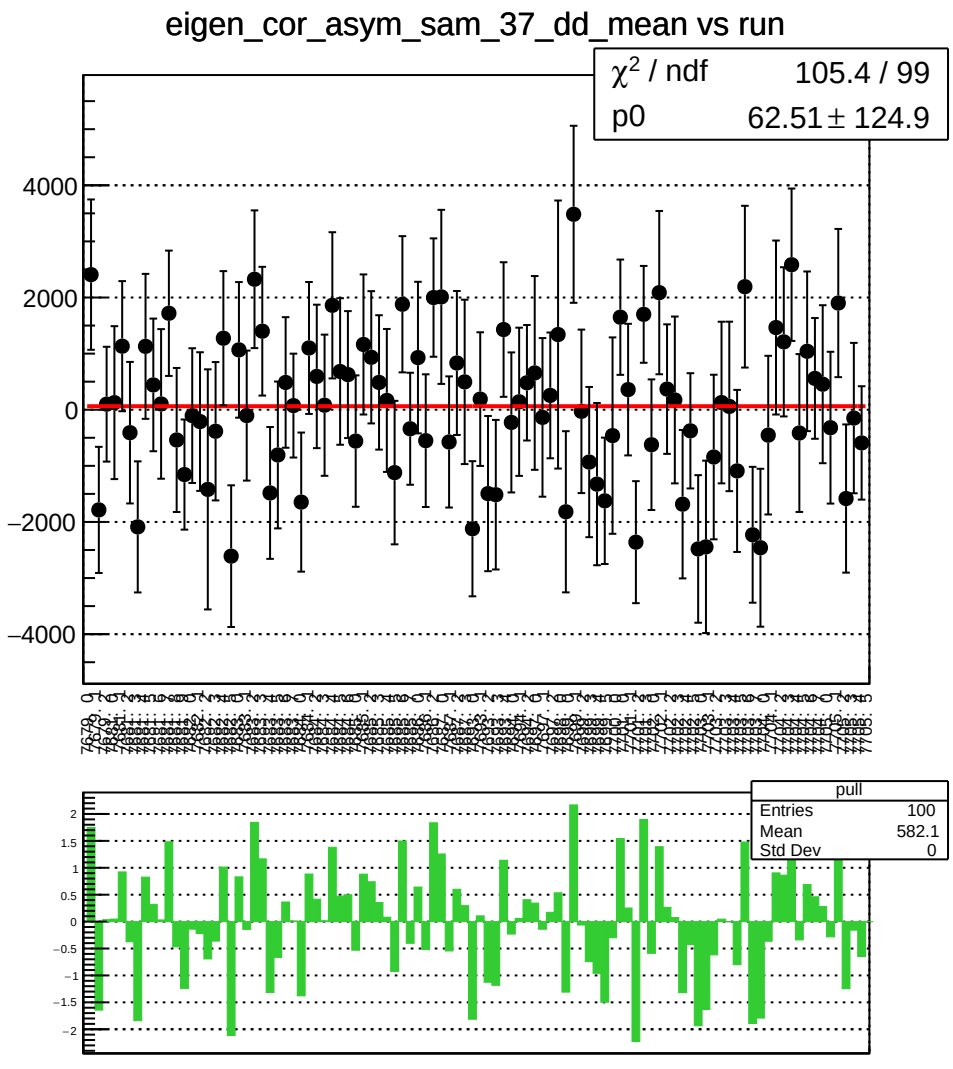

cor_asym_sam_37_dd_mean vs run
χ² / ndf 105.4 / 99
p0 62.51 ± 124.9
4000
2000
0
−2000
−4000
pull
Entries 100
Mean 582.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

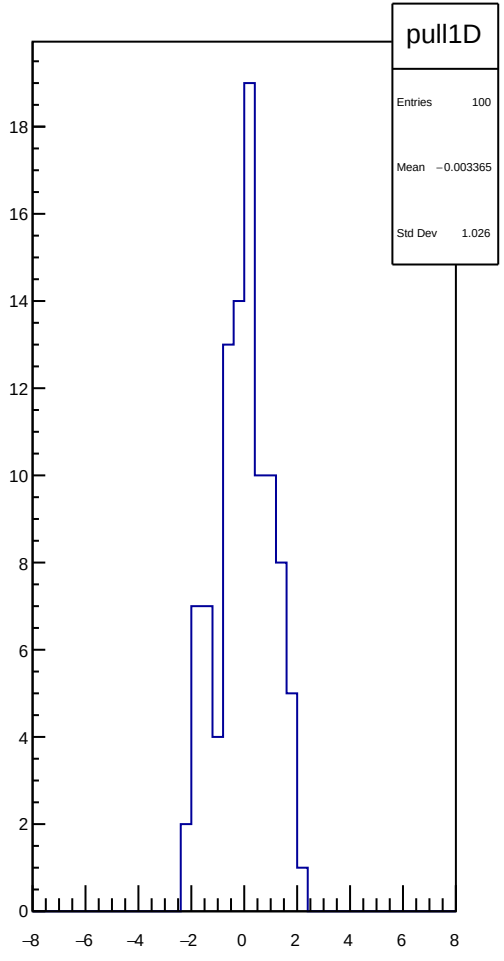

pull1D
Entries 100
Mean −0.003365
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

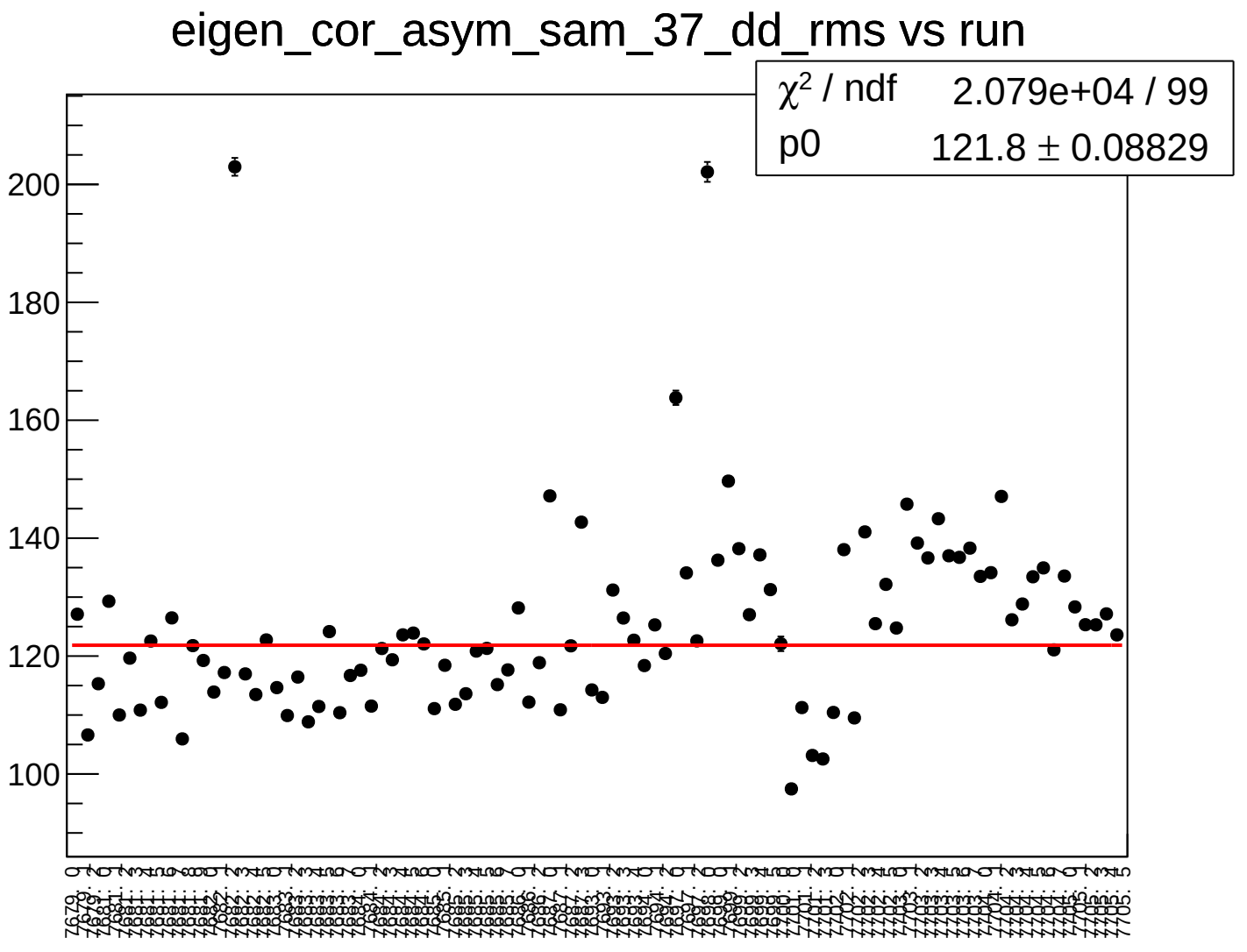

cor_asym_sam_37_dd_rms vs run
χ^2 / ndf 2.079e+04 / 99
p0 121.8 ± 0.08829
200
180
160
140
120
100

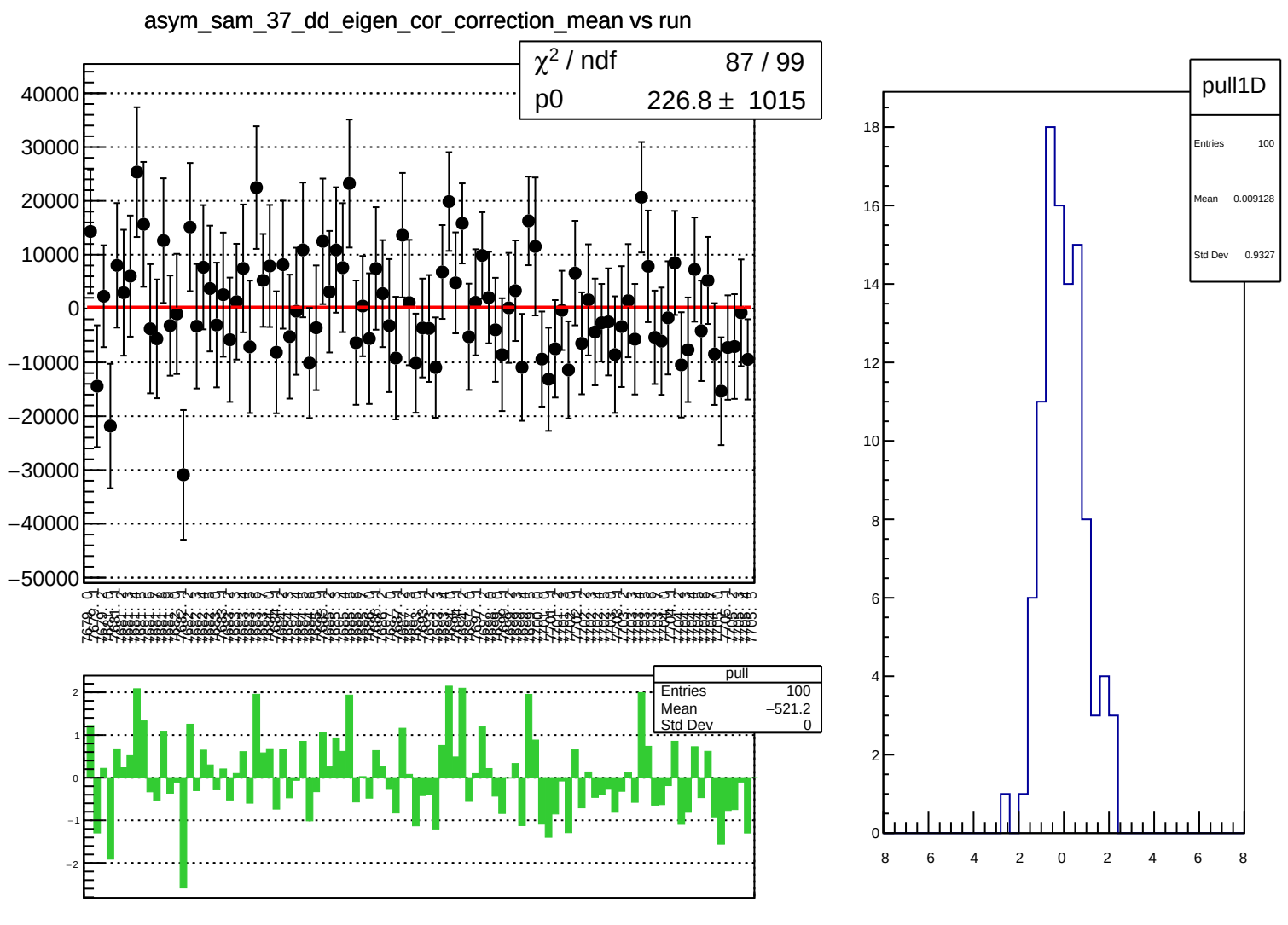

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 87 / 99
p0 226.8 ± 1015
pull
Entries 100
Mean −521.2
Std Dev 0
pull1D
Entries 100
Mean 0.009128
Std Dev 0.9327

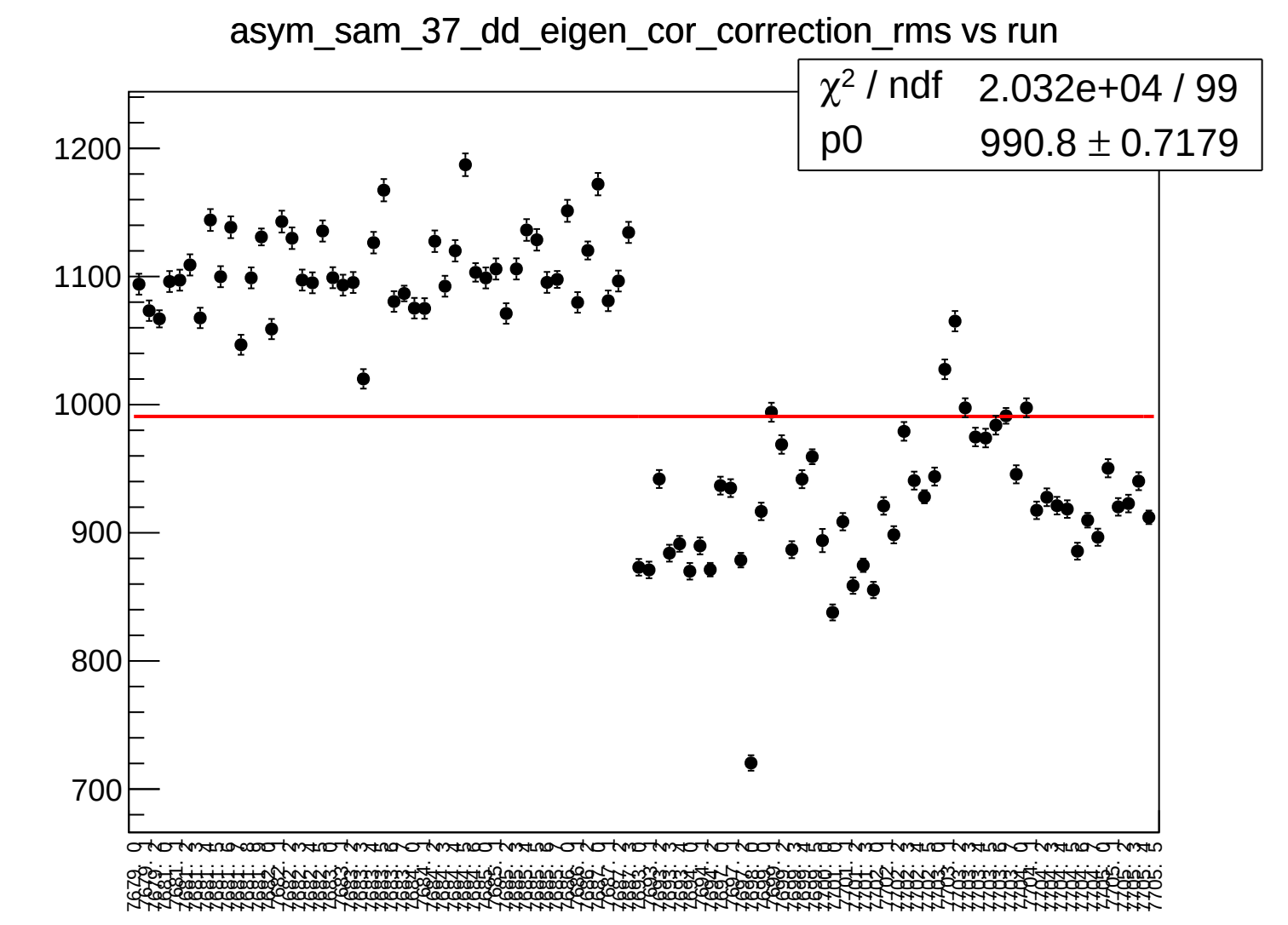

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 2.032e+04 / 99
p0 990.8 ± 0.7179
1200
1100
1000
900
800
700

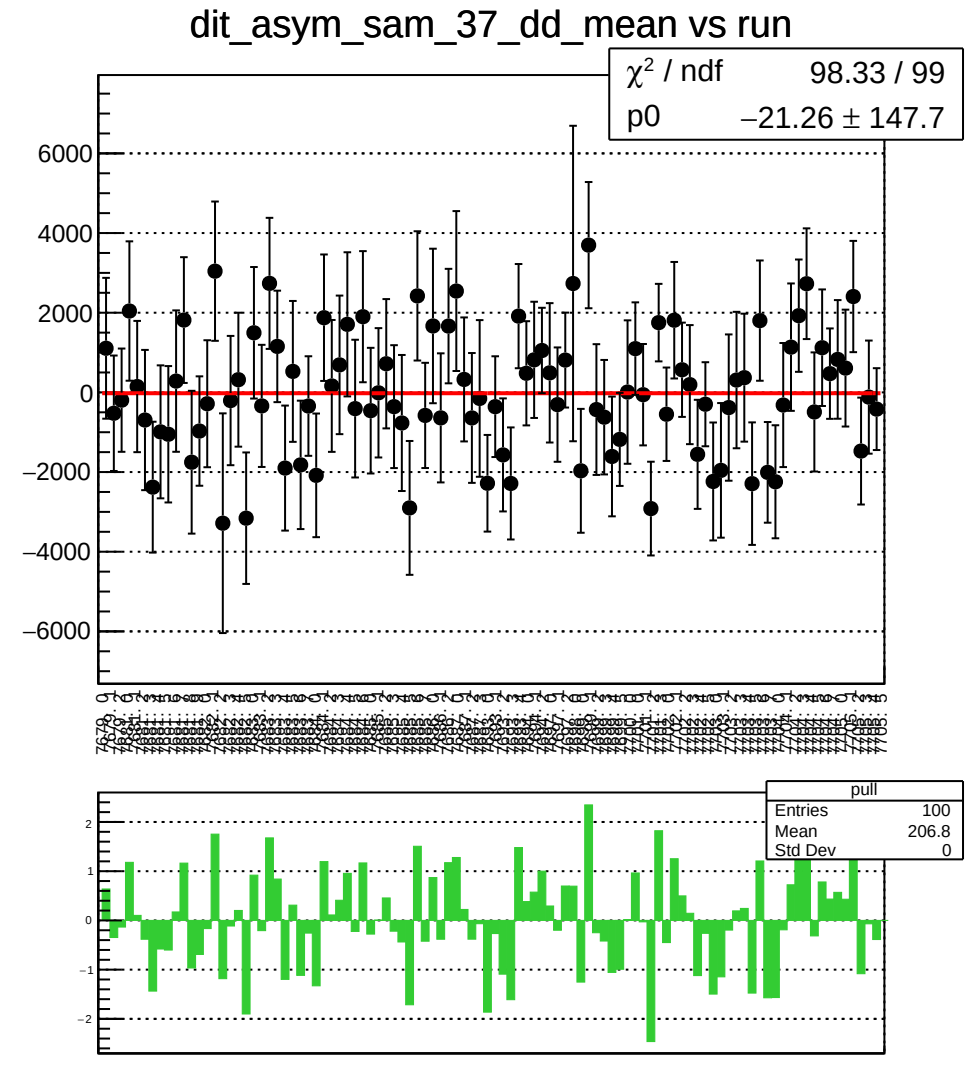

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 105.4 / 99
p0 62.51 ± 124.9
4000
2000
0
−2000
−4000
pull
Entries 100
Mean 582.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

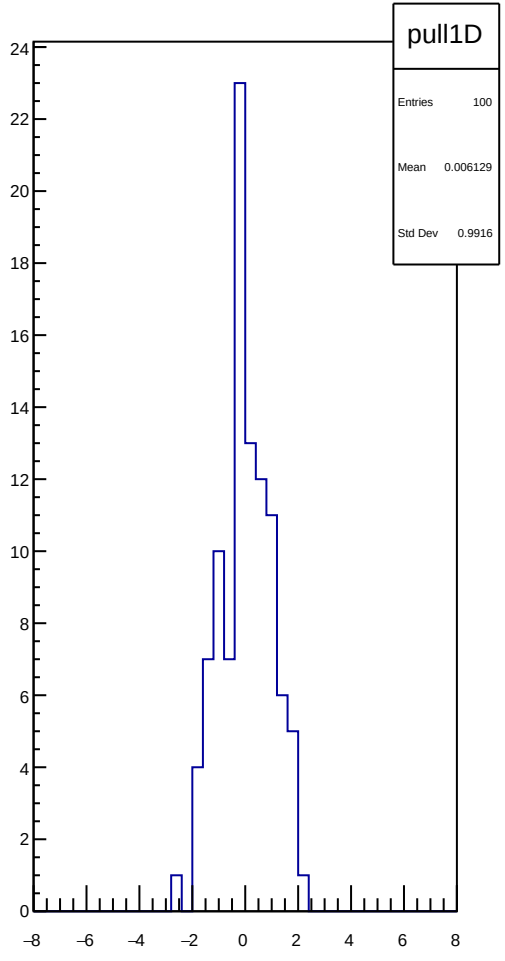

pull1D
Entries 100
Mean −0.003365
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

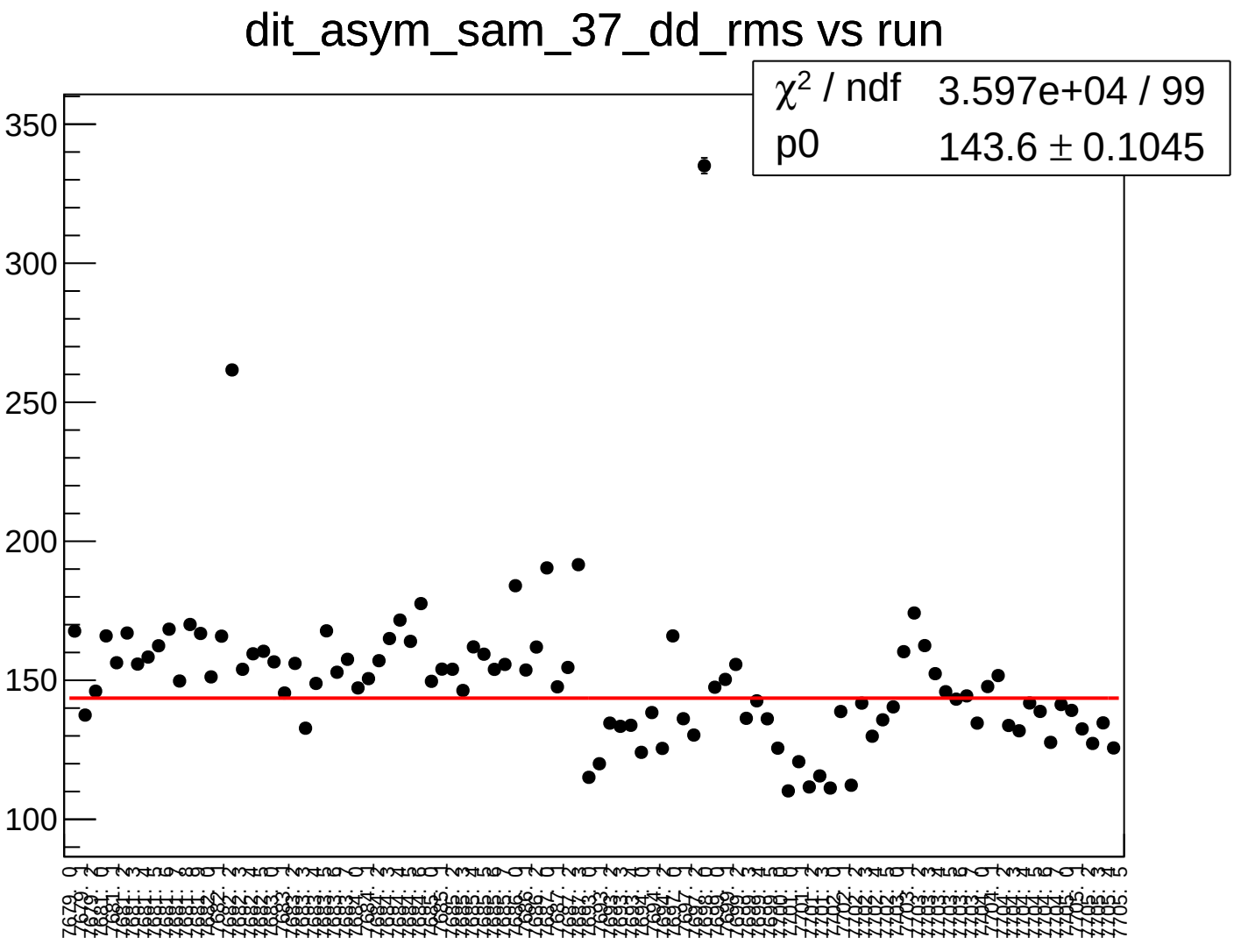

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 2.079e+04 / 99
p0 121.8 ± 0.08829
200
180
160
140
120
100

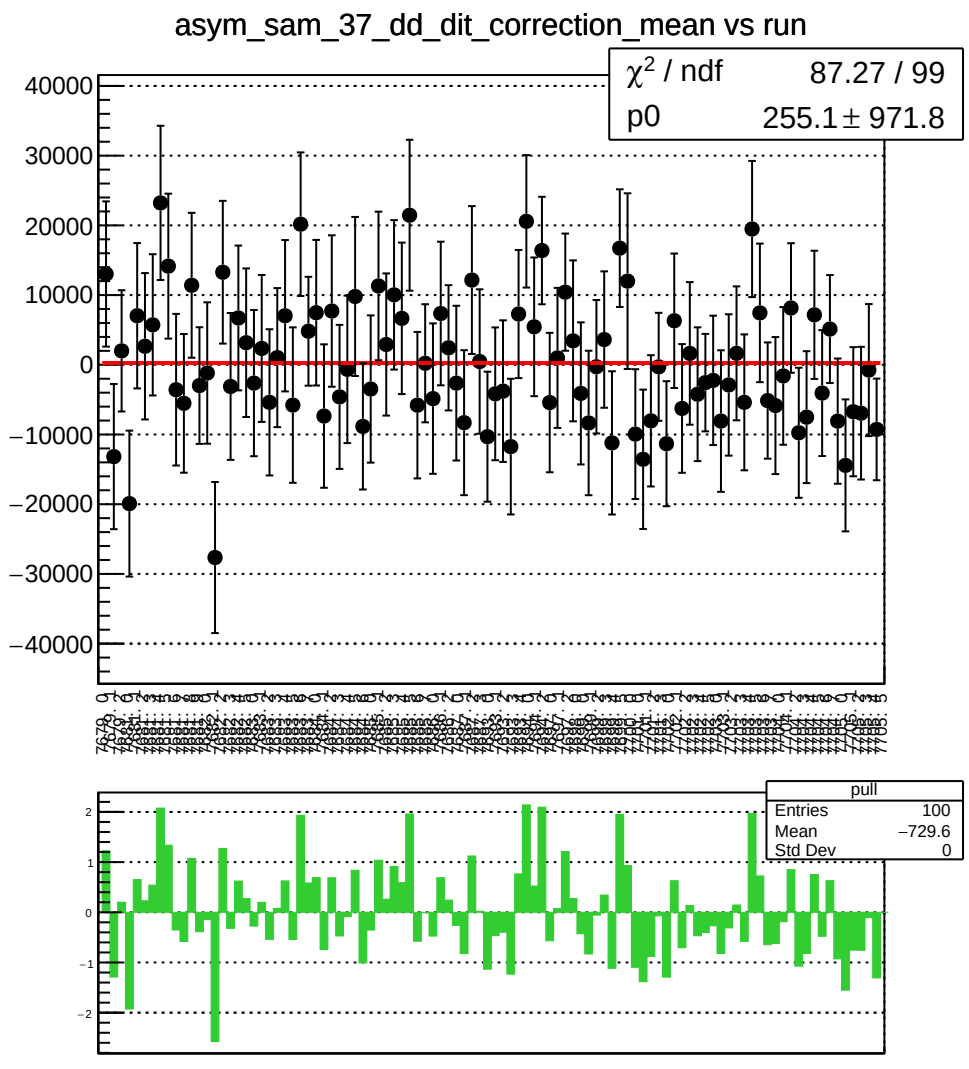

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 87 / 99
p0 226.8 ± 1015
pull
Entries 100
Mean −521.2
Std Dev 0
pull1D
Entries 100
Mean 0.009128
Std Dev 0.9327

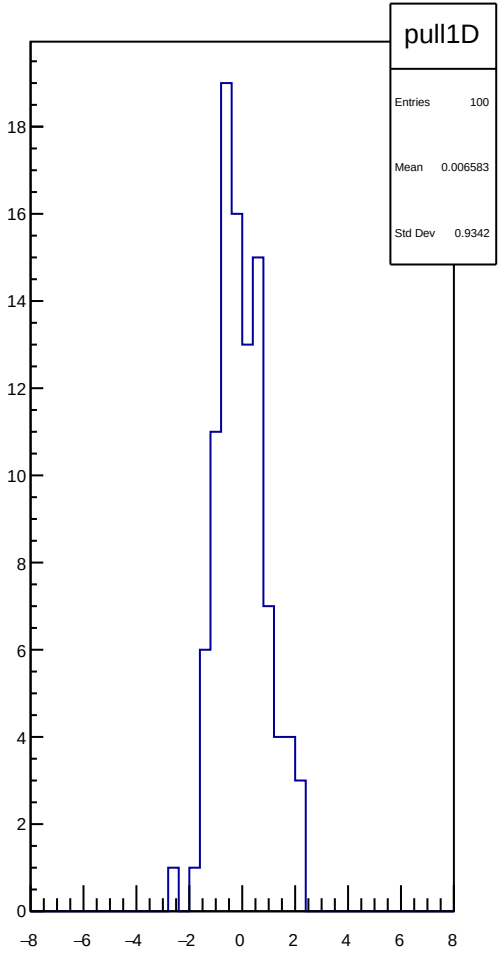

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.032e+04 / 99
p0 990.8 ± 0.7179
1200
1100
1000
900
800
700

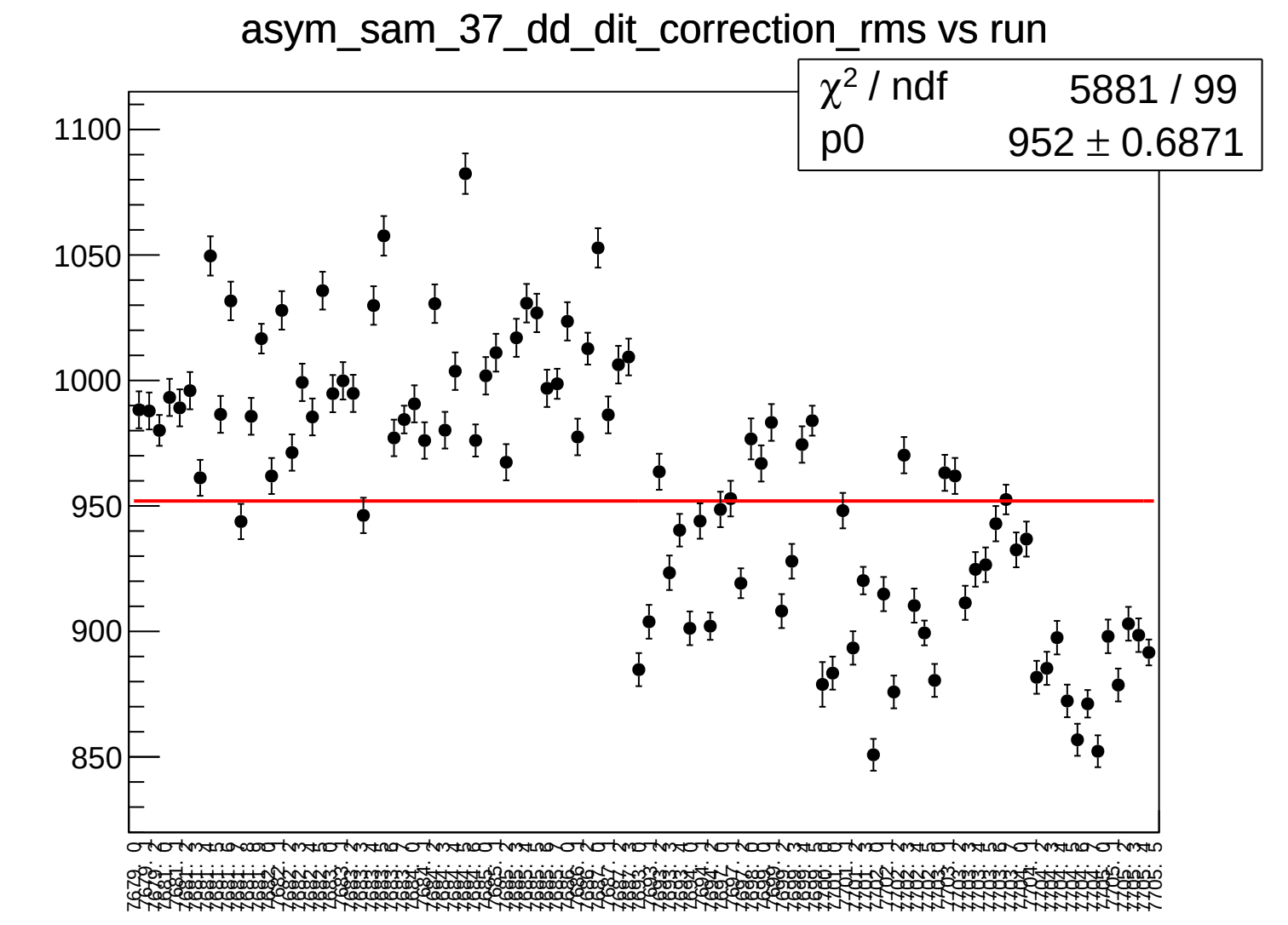

dit_asym_sam_37_dd_mean vs run
χ² / ndf 98.33 / 99
p0 −21.26 ± 147.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 206.8
Std Dev 0
2
1
0
−1
−2

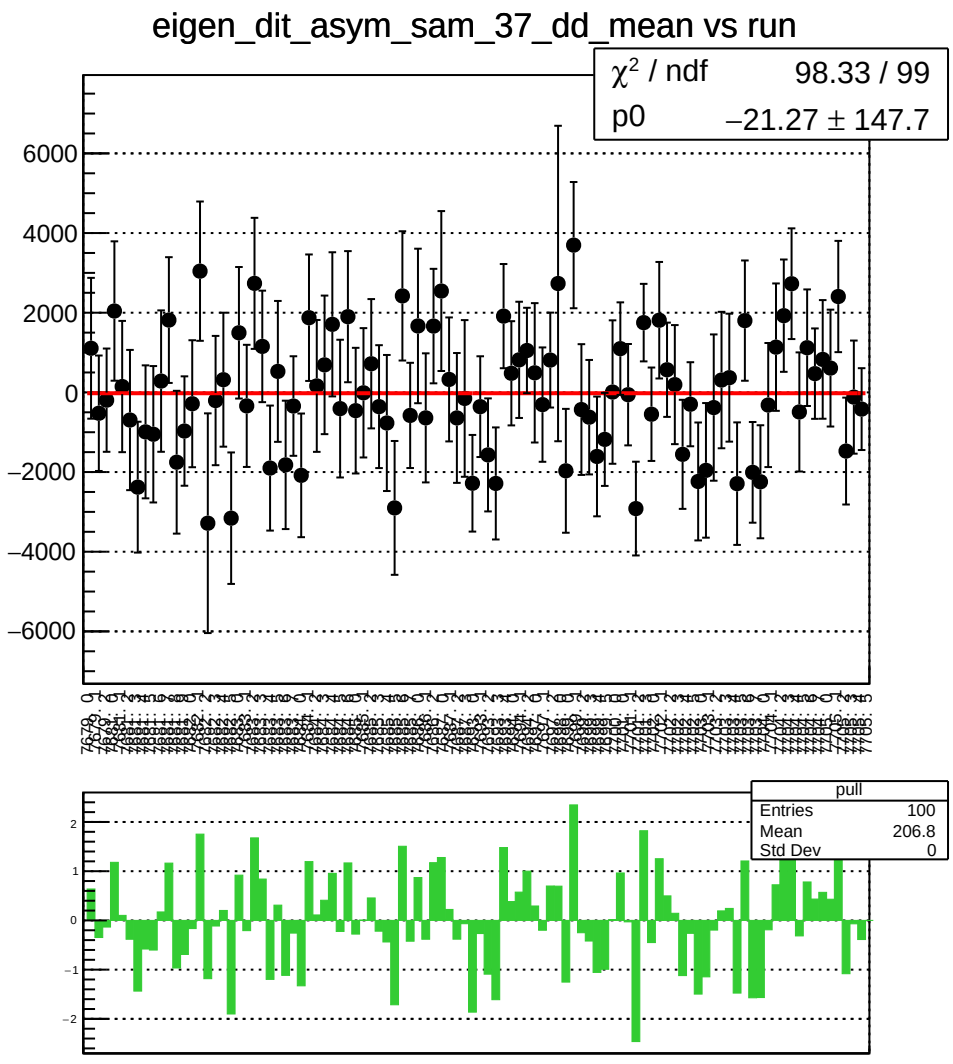

pull1D
Entries 100
Mean 0.006129
Std Dev 0.9916
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

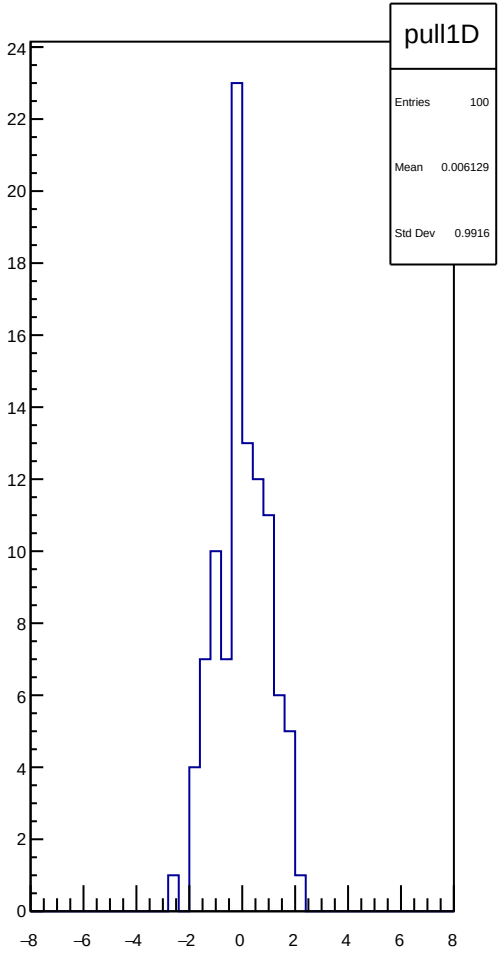

dit_asym_sam_37_dd_rms vs run
χ² / ndf 3.597e+04 / 99
p0 143.6 ± 0.1045
350
300
250
200
150
100

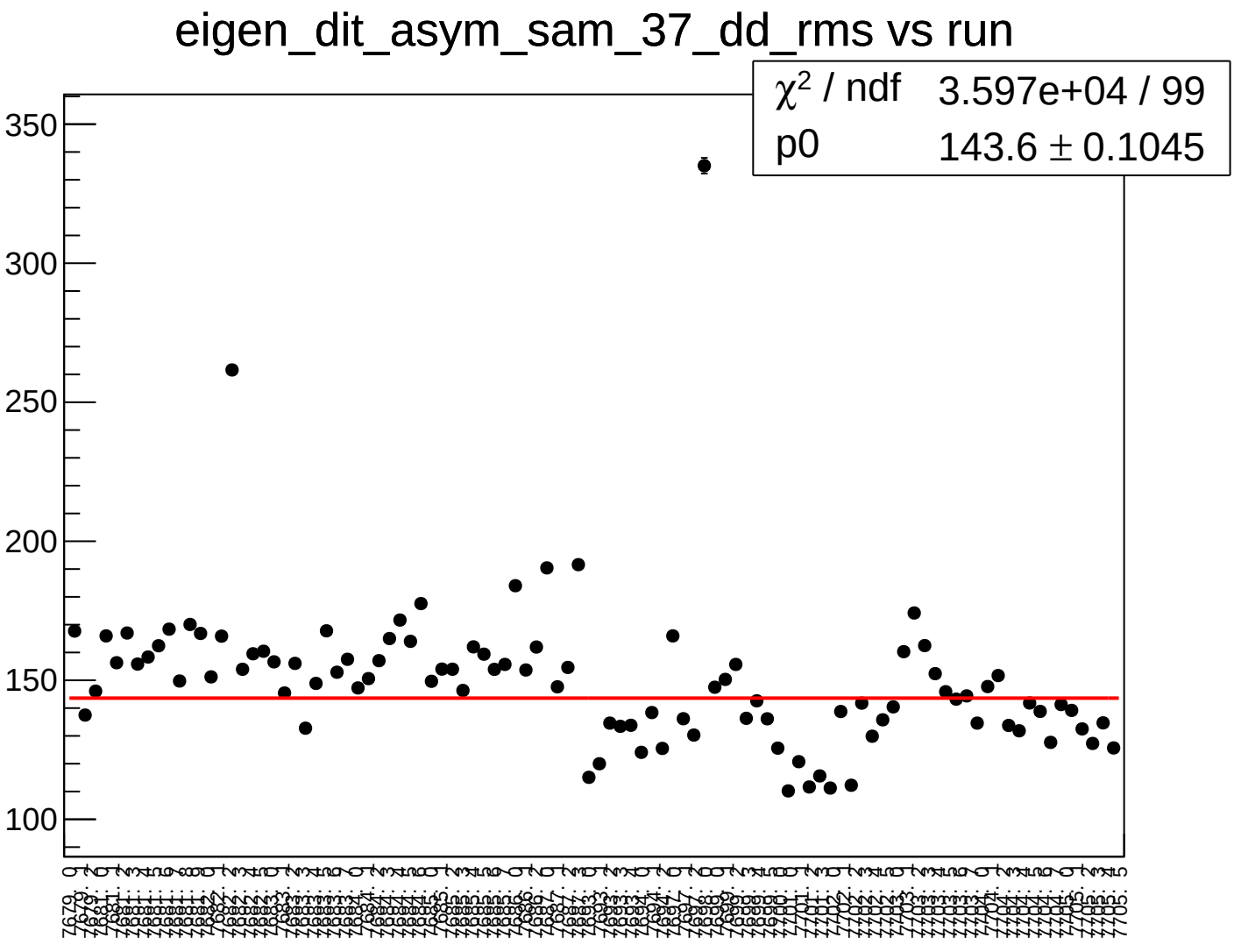

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 87.27 / 99
p0 255.1 ± 971.8
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 100
Mean −729.6
Std Dev 0
2
1
0
−1
−2

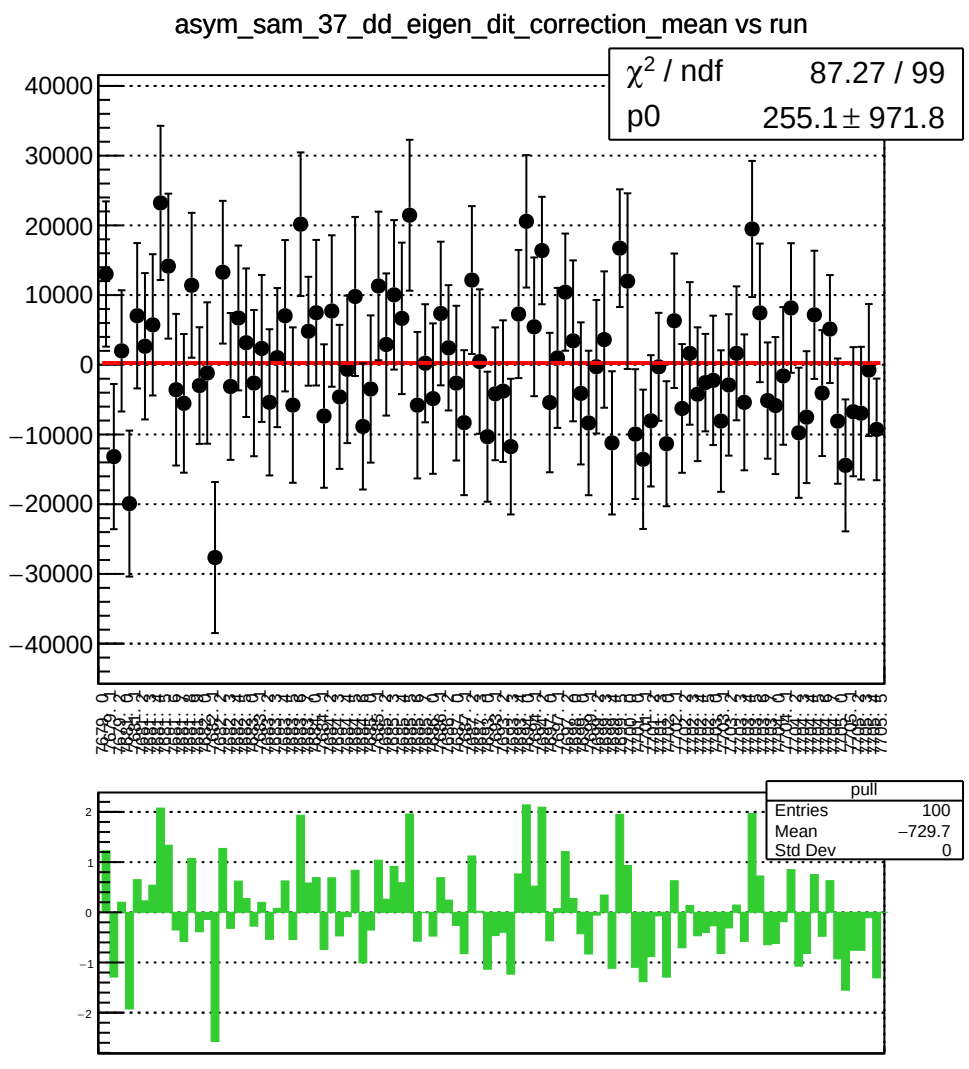

pull1D
Entries 100
Mean 0.006583
Std Dev 0.9342
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

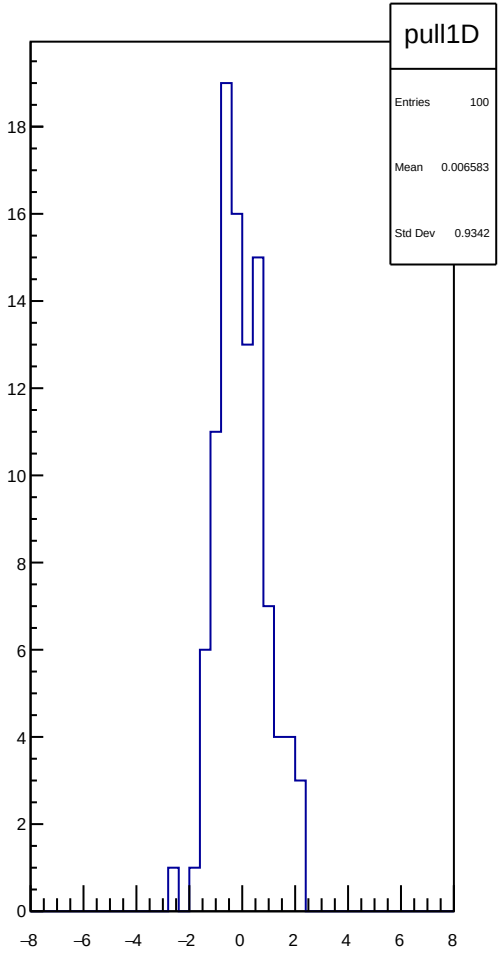

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 5881 / 99
p0 952 ± 0.6871
1100
1050
1000
950
900
850

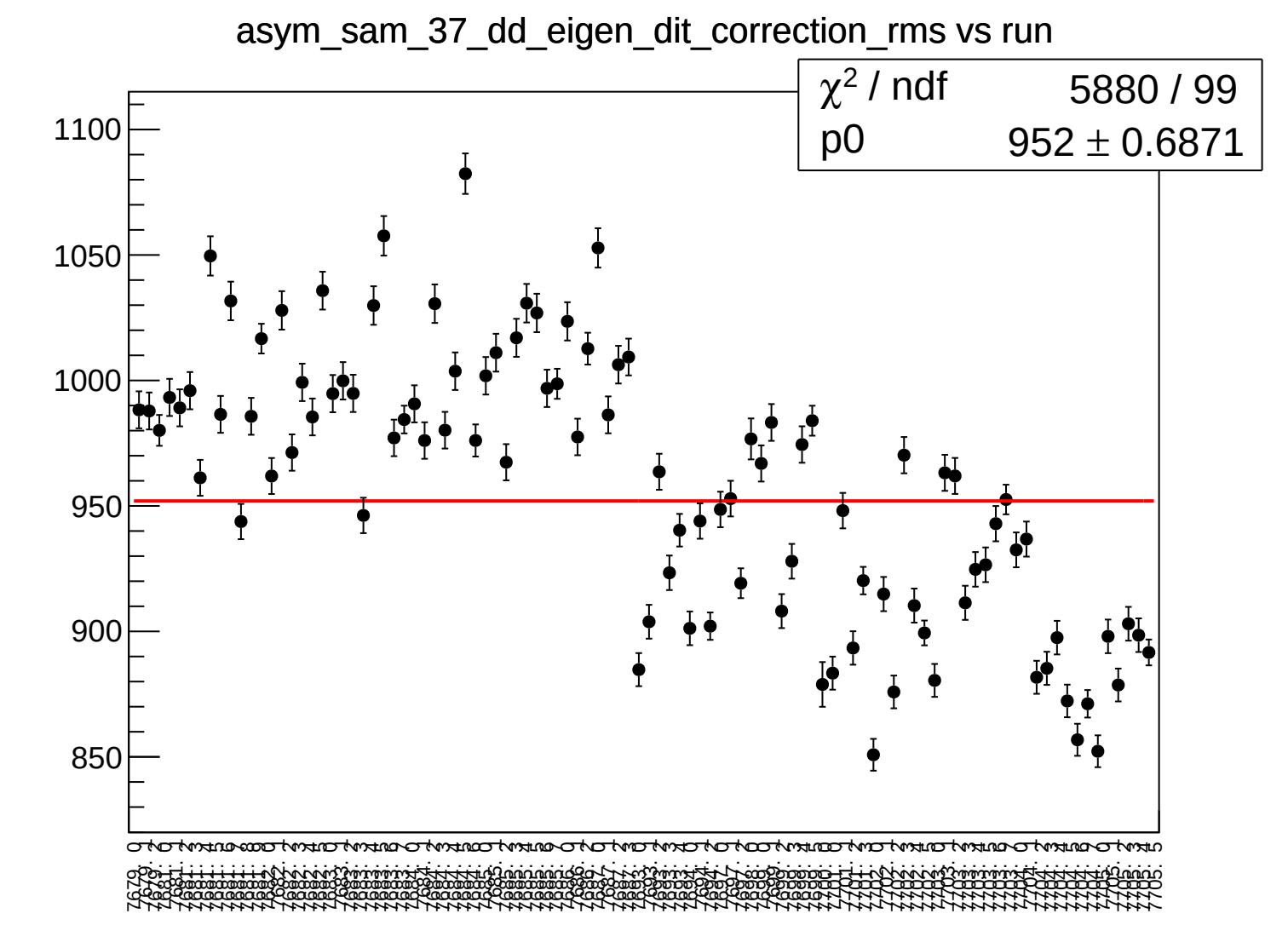

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 98.33 / 99
p0 −21.27 ± 147.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 206.8
Std Dev 0
2
1
0
−1
−2

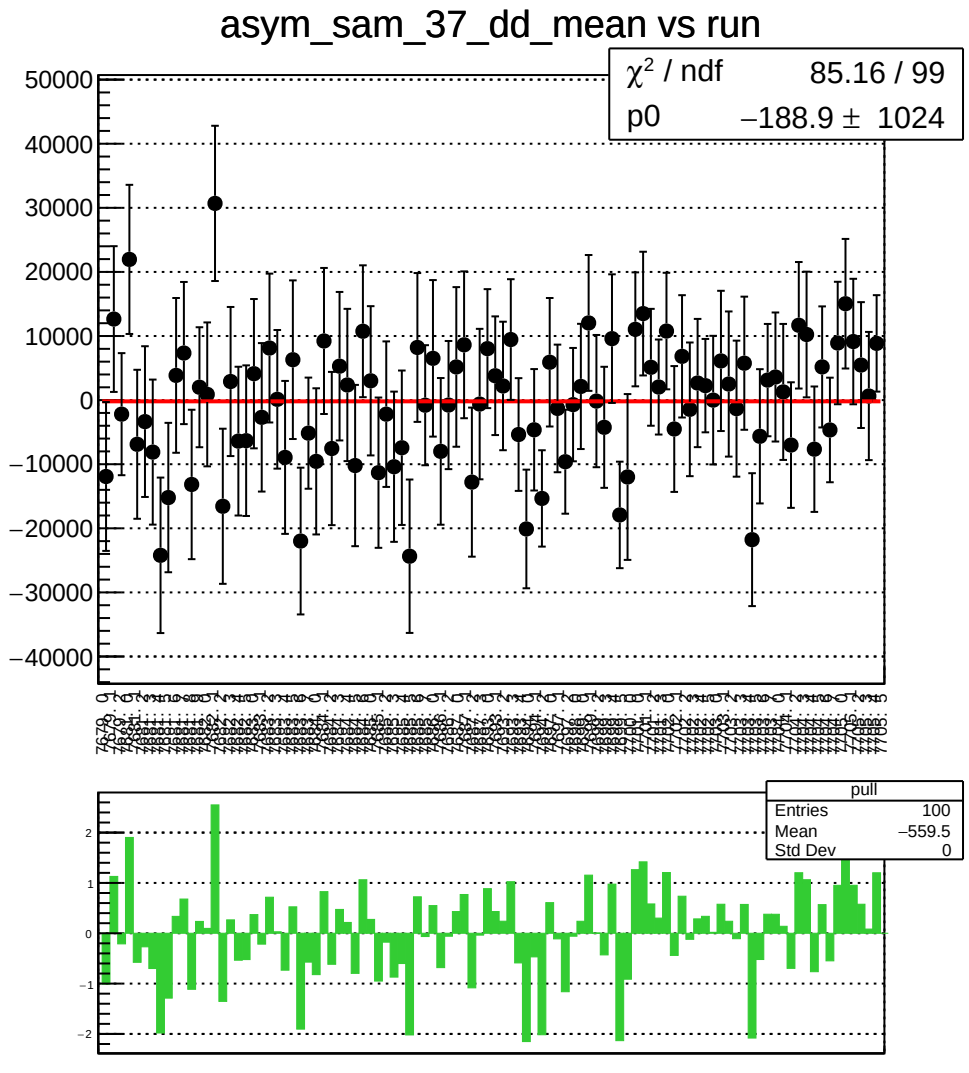

pull1D
Entries 100
Mean 0.006129
Std Dev 0.9916
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

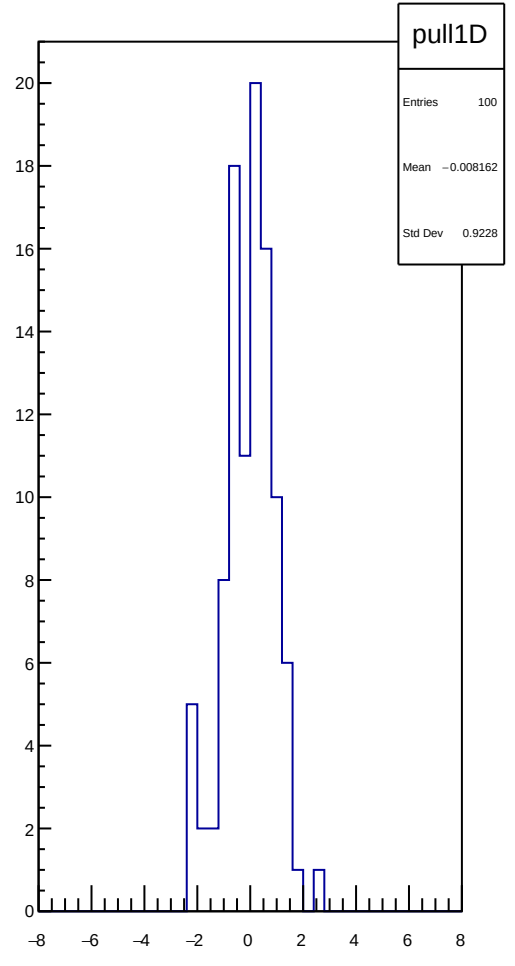

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 3.597e+04 / 99
p0 143.6 ± 0.1045
350
300
250
200
150
100

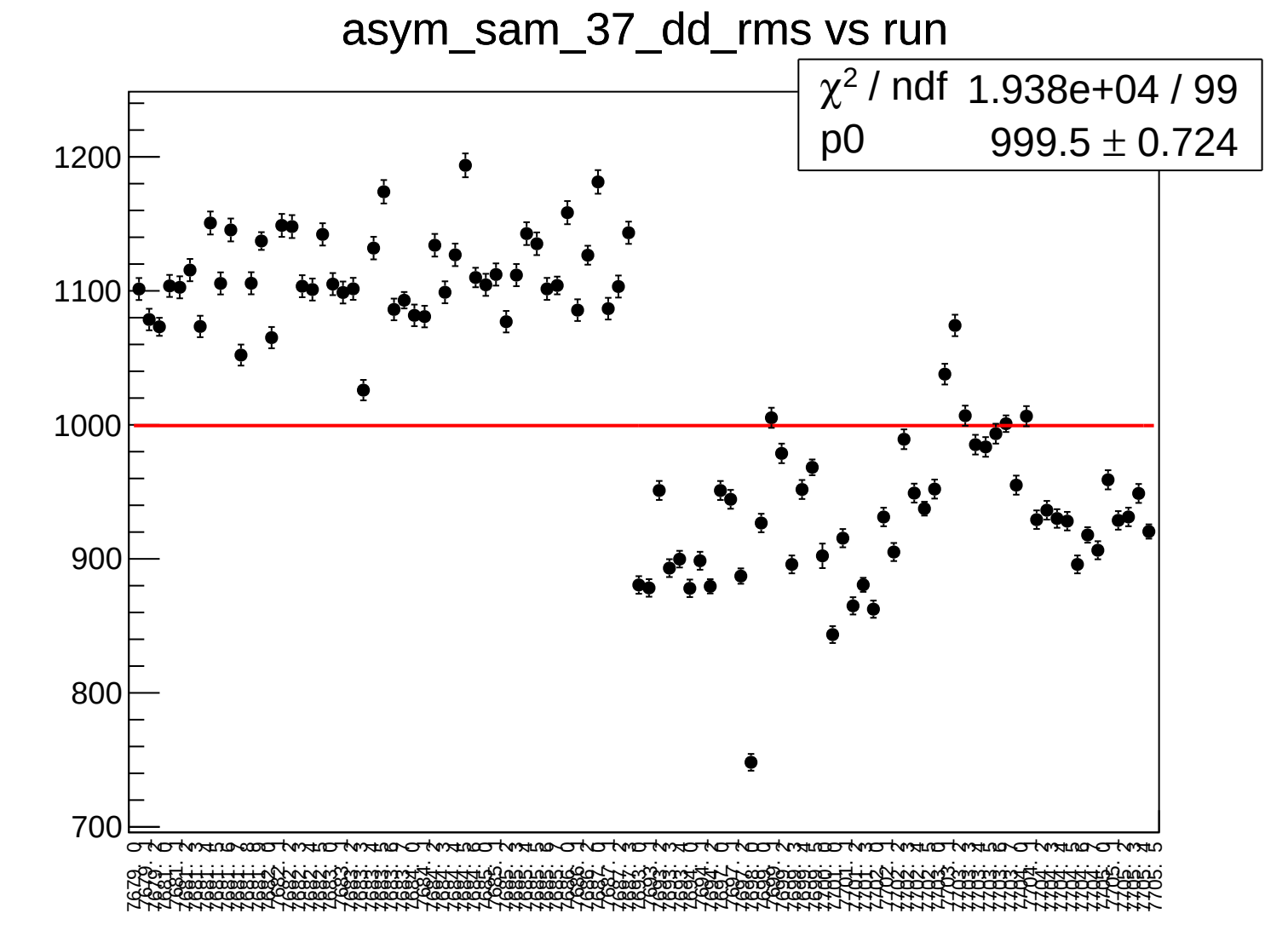

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 87.27 / 99
p0 255.1 ± 971.8
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 100
Mean −729.7
Std Dev 0
2
1
0
−1
−2

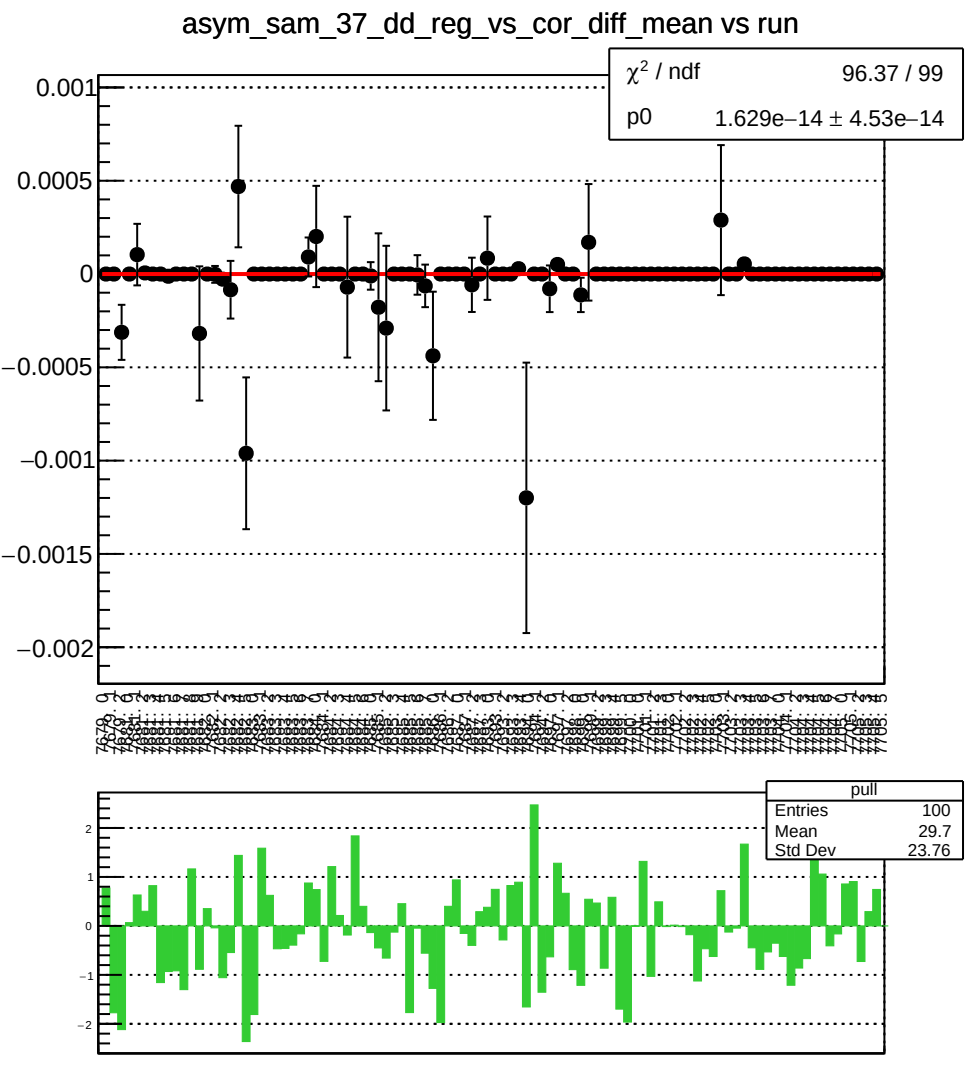

pull1D
Entries 100
Mean 0.006583
Std Dev 0.9342
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

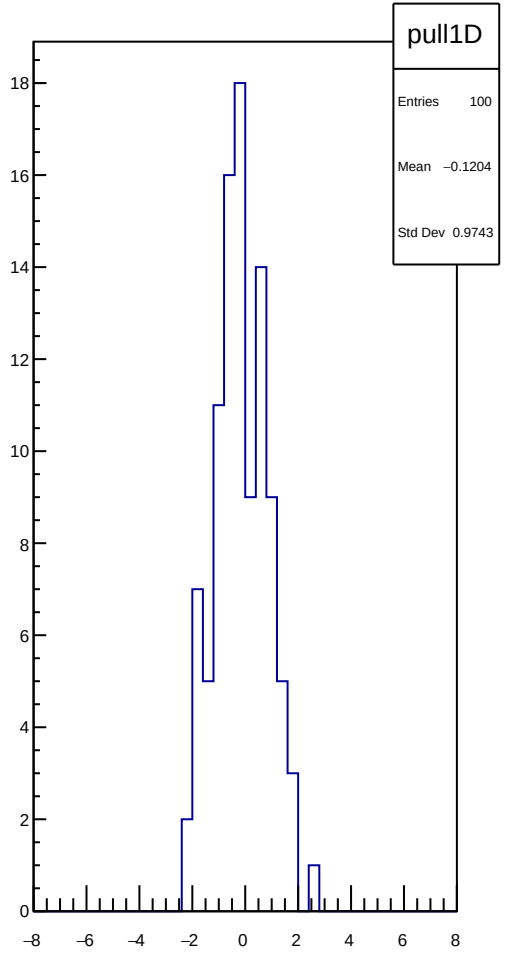

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 5880 / 99
p0 952 ± 0.6871
1100
1050
1000
950
900
850

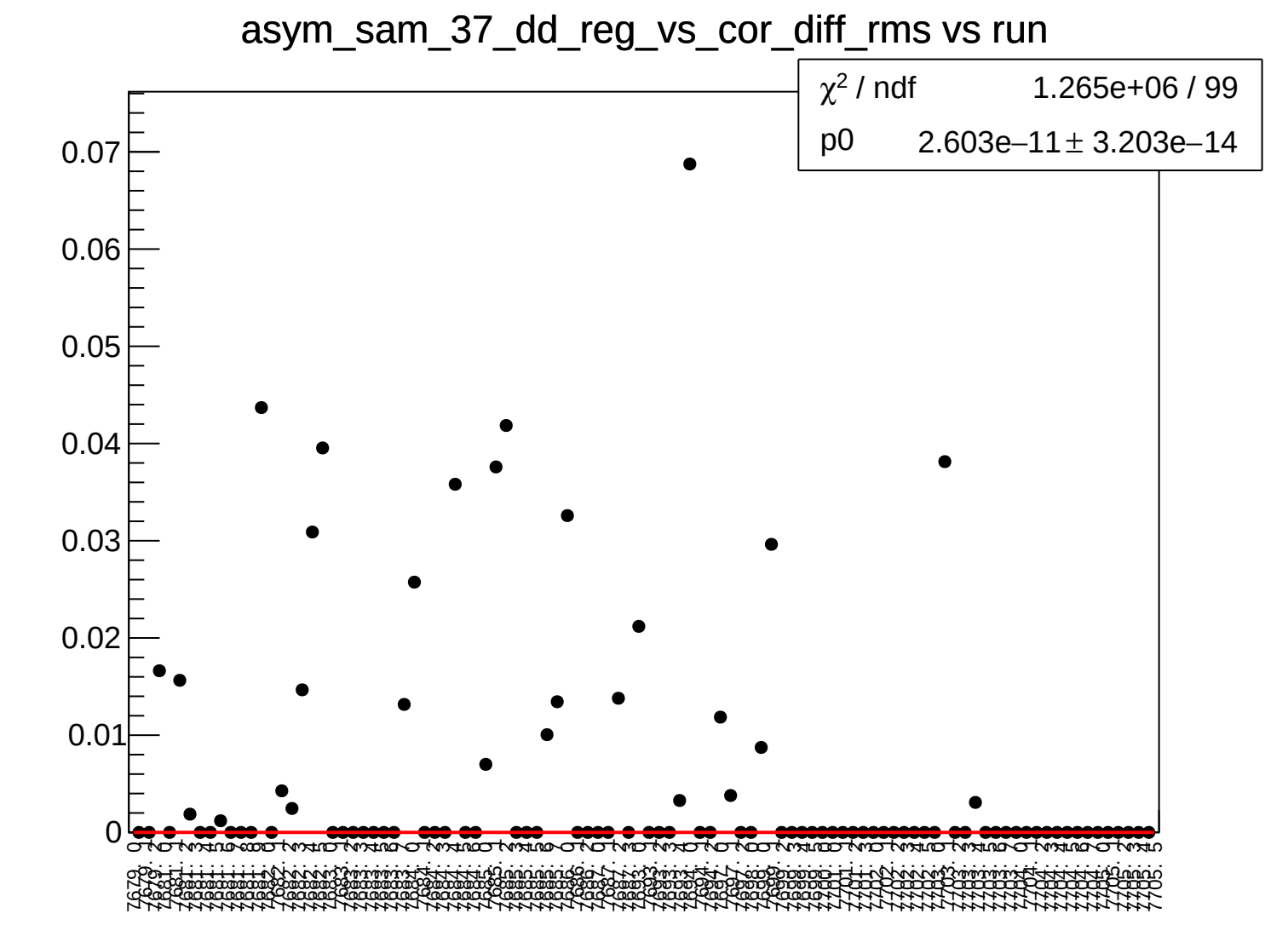

asym_sam_37_dd_mean vs run
χ² / ndf 85.16 / 99
p0 −188.9 ± 1024
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 100
Mean −559.5
Std Dev 0
2
1
0
−1
−2

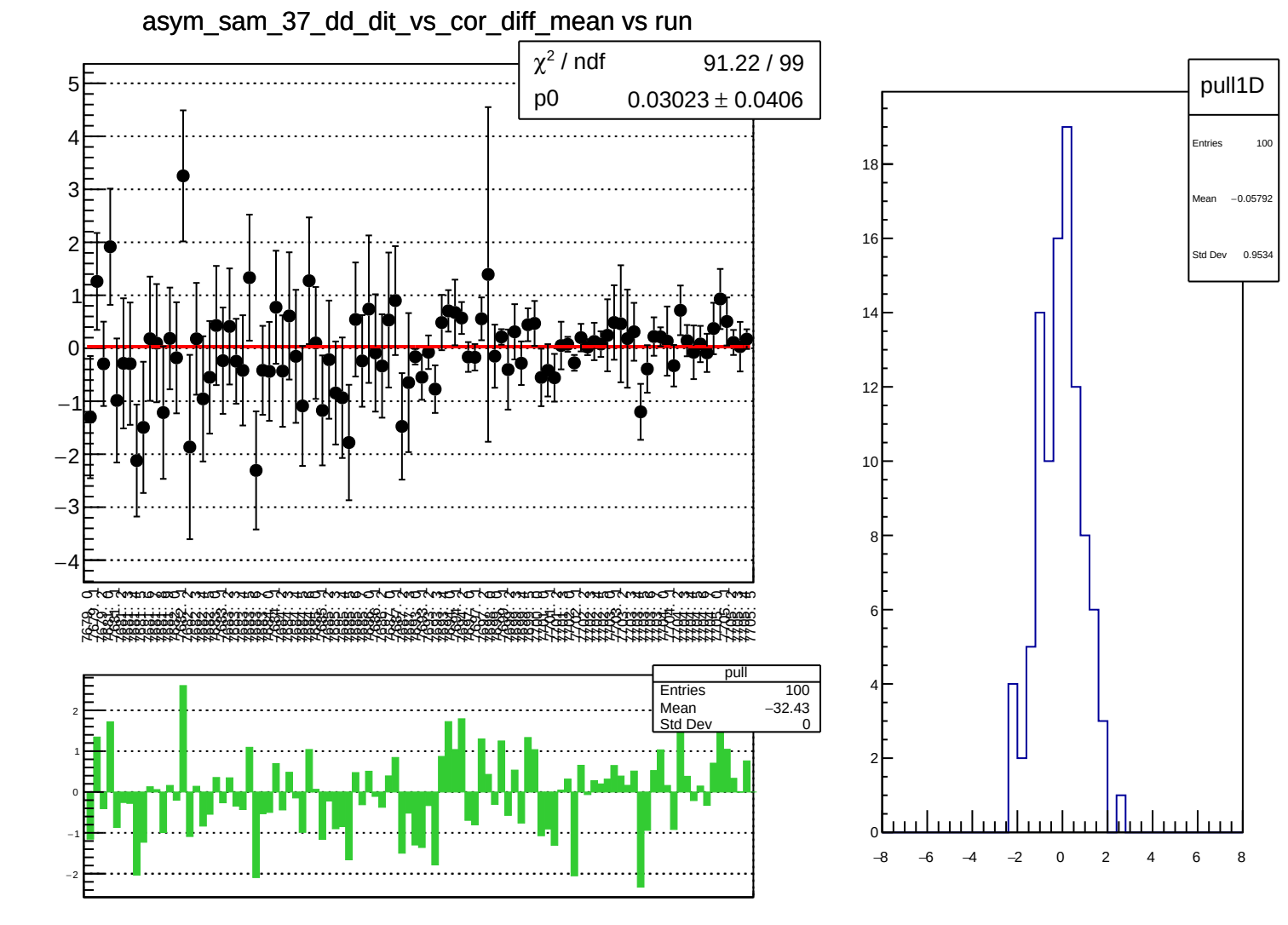

pull1D
Entries 100
Mean −0.008162
Std Dev 0.9228
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

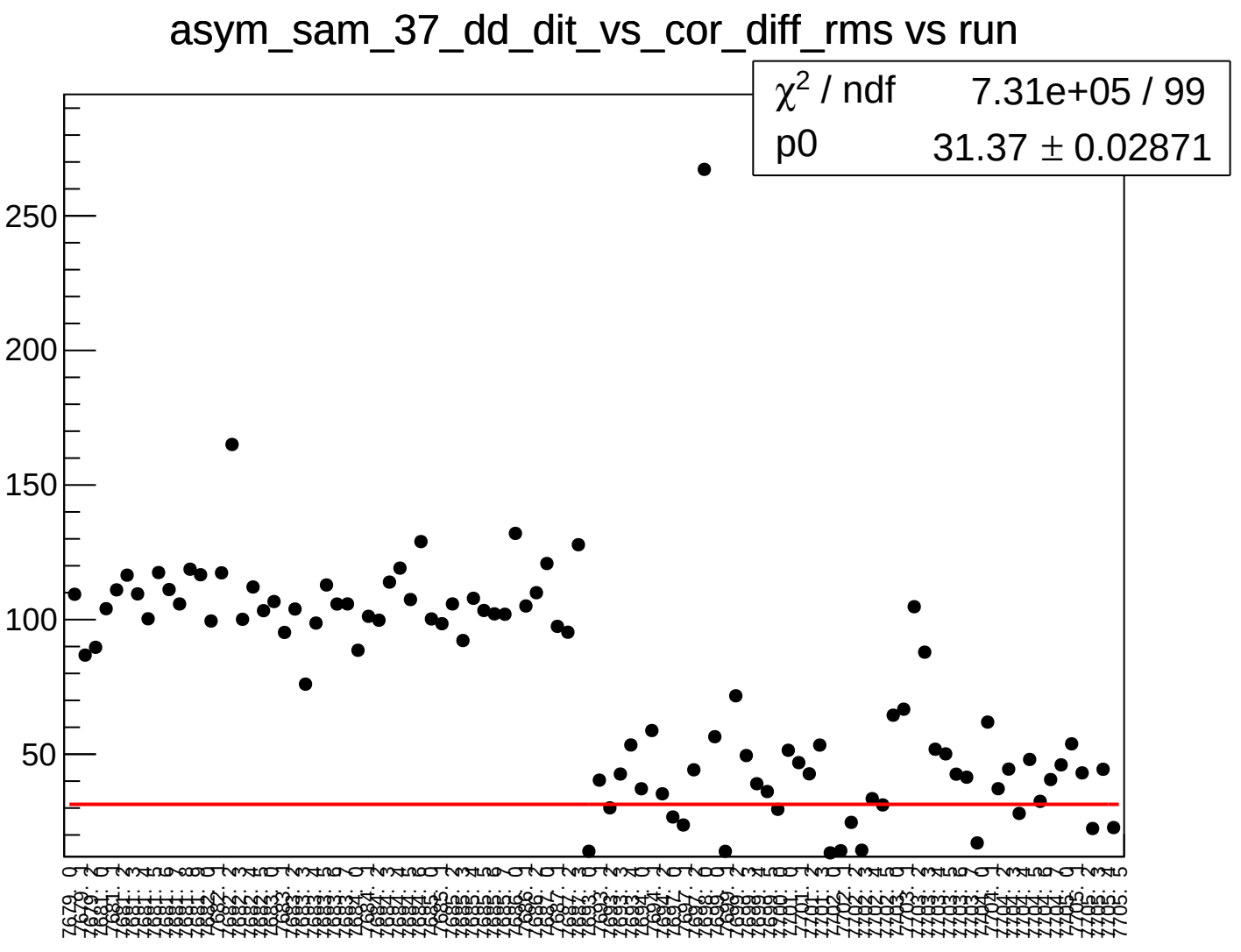

asym_sam_37_dd_rms vs run
χ² / ndf 1.938e+04 / 99
p0 999.5 ± 0.724
1200
1100
1000
900
800
700

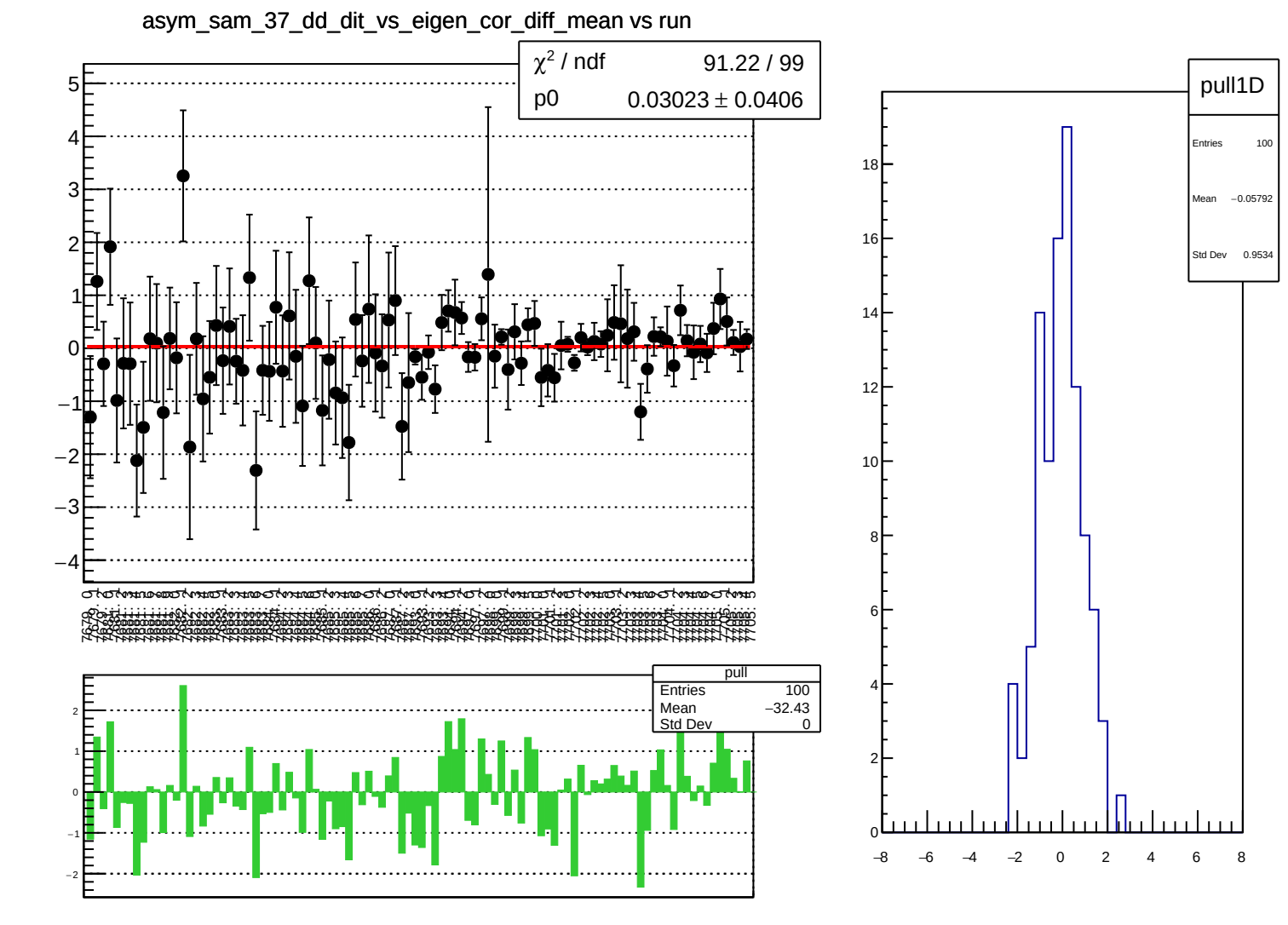

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 96.37 / 99
p0 1.629e−14 ± 4.53e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 100
Mean 29.7
Std Dev 23.76
2
1
0
−1
−2

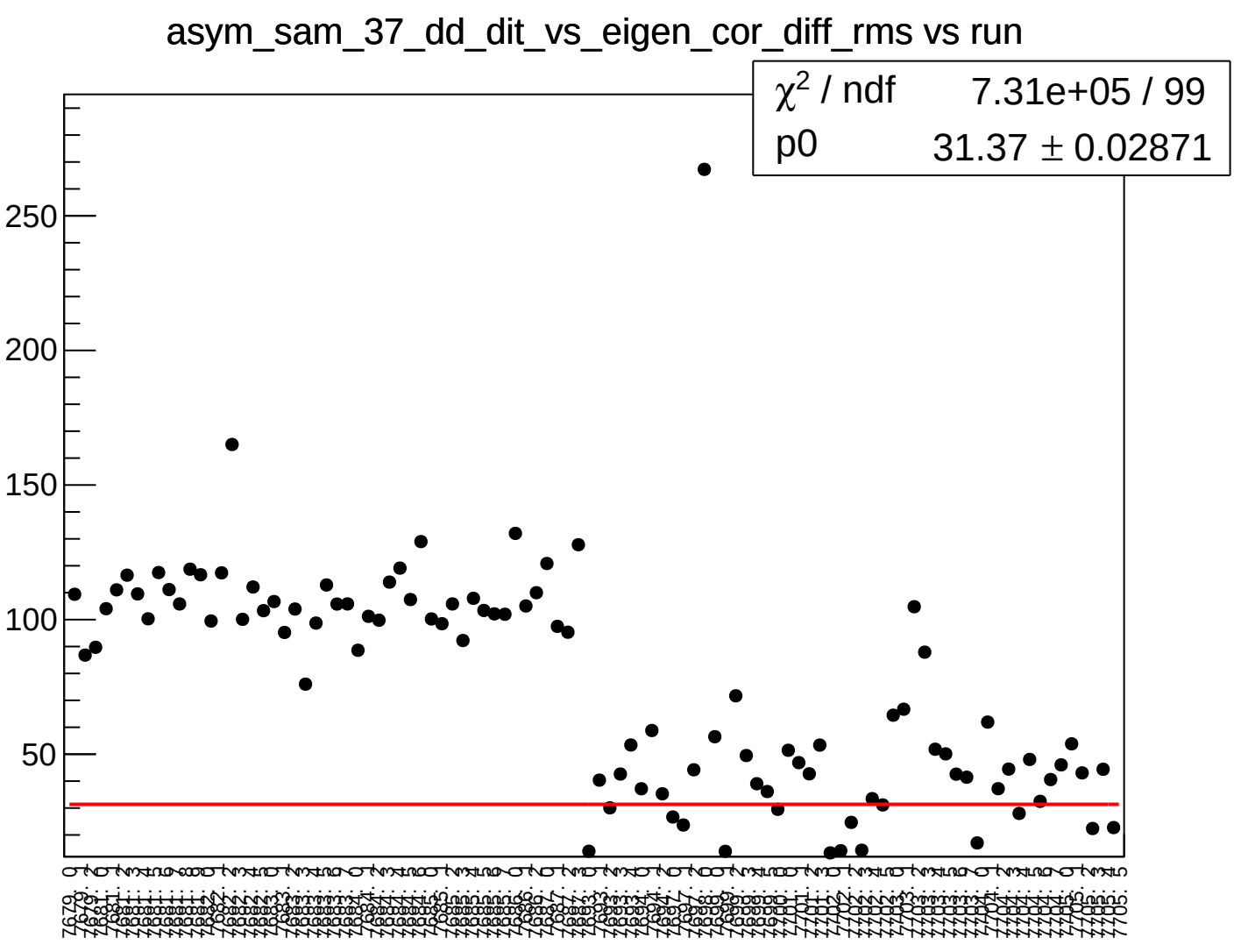

pull1D
Entries 100
Mean −0.1204
Std Dev 0.9743
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

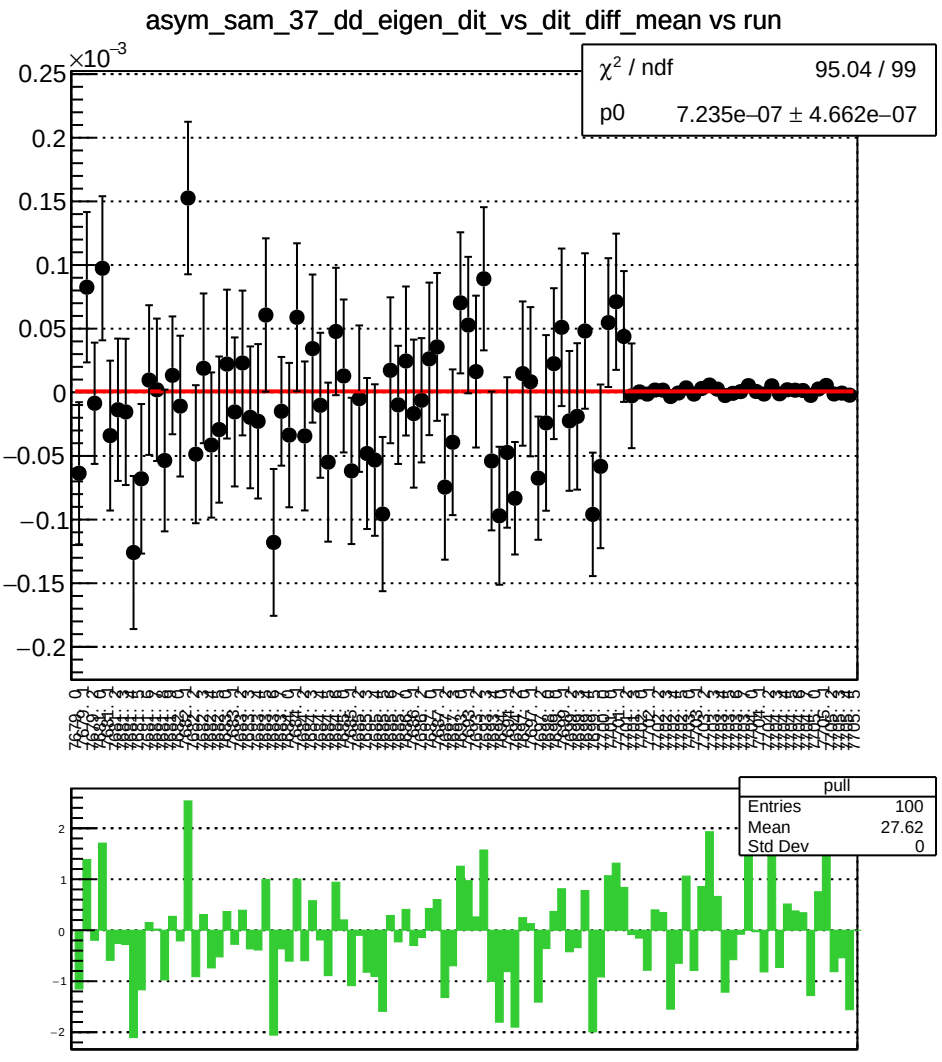

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.265e+06 / 99
p0 2.603e−11 ± 3.203e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

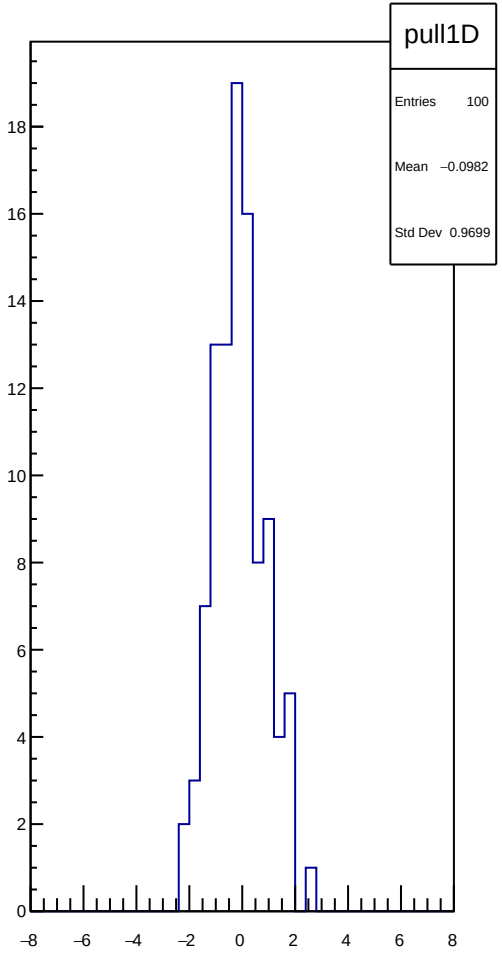

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.22 / 99
p0 0.03023 ± 0.0406
pull
Entries 100
Mean −32.43
Std Dev 0
pull1D
Entries 100
Mean −0.05792
Std Dev 0.9534

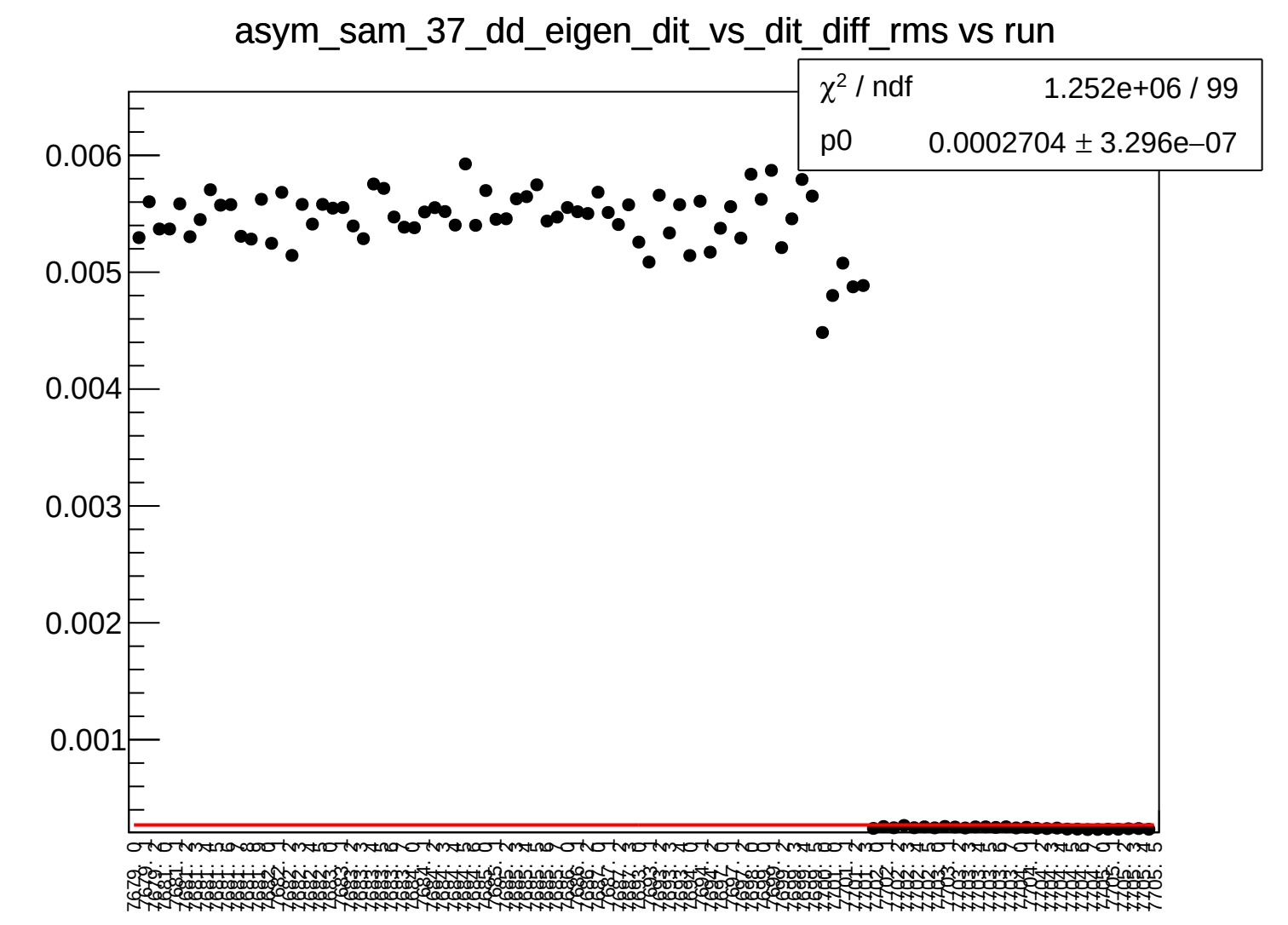

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 7.31e+05 / 99
p0 31.37 ± 0.02871
250
200
150
100
50

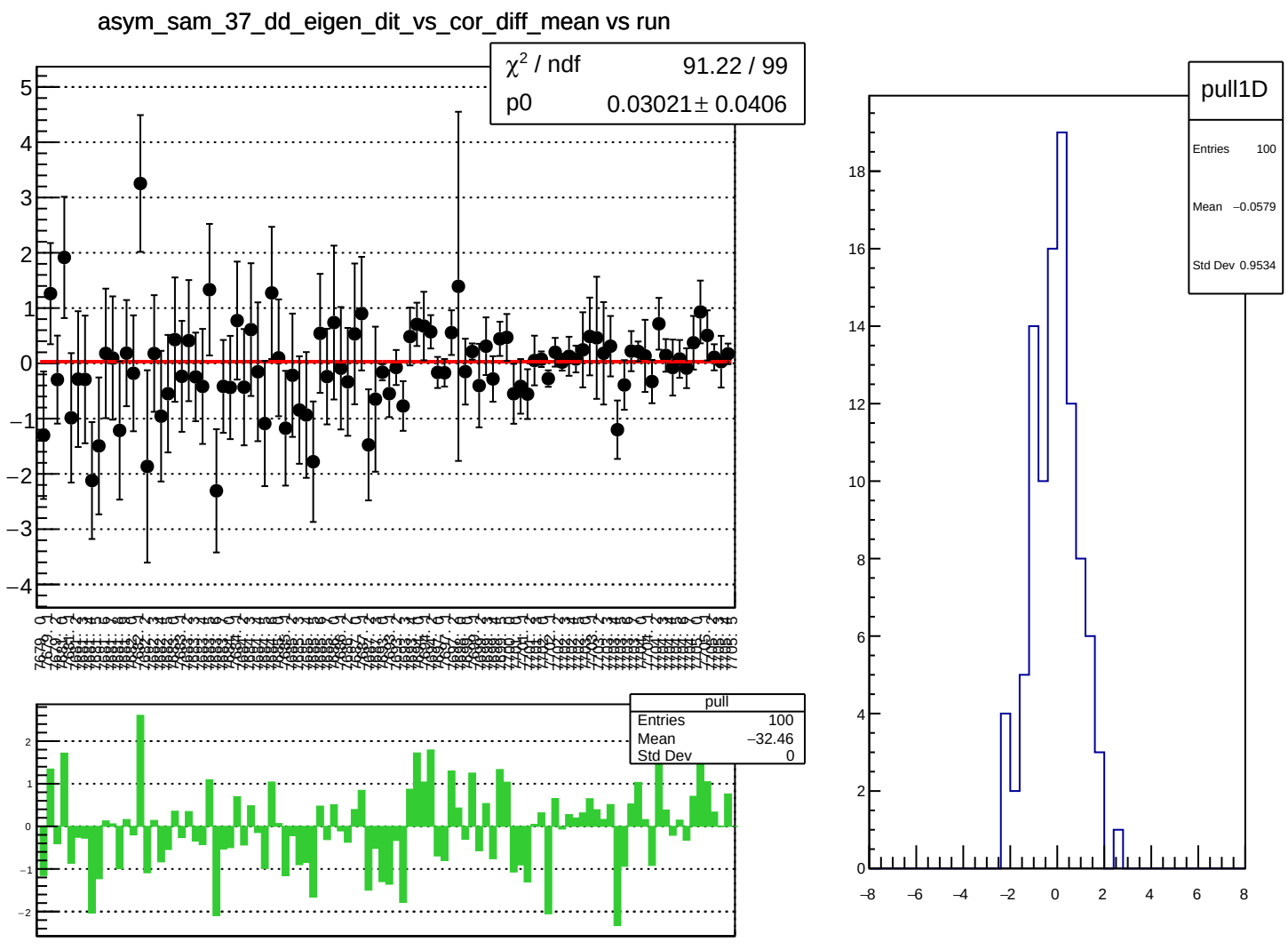

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.22 / 99
p0 0.03023 ± 0.0406
pull
Entries 100
Mean −32.43
Std Dev 0
pull1D
Entries 100
Mean −0.05792
Std Dev 0.9534

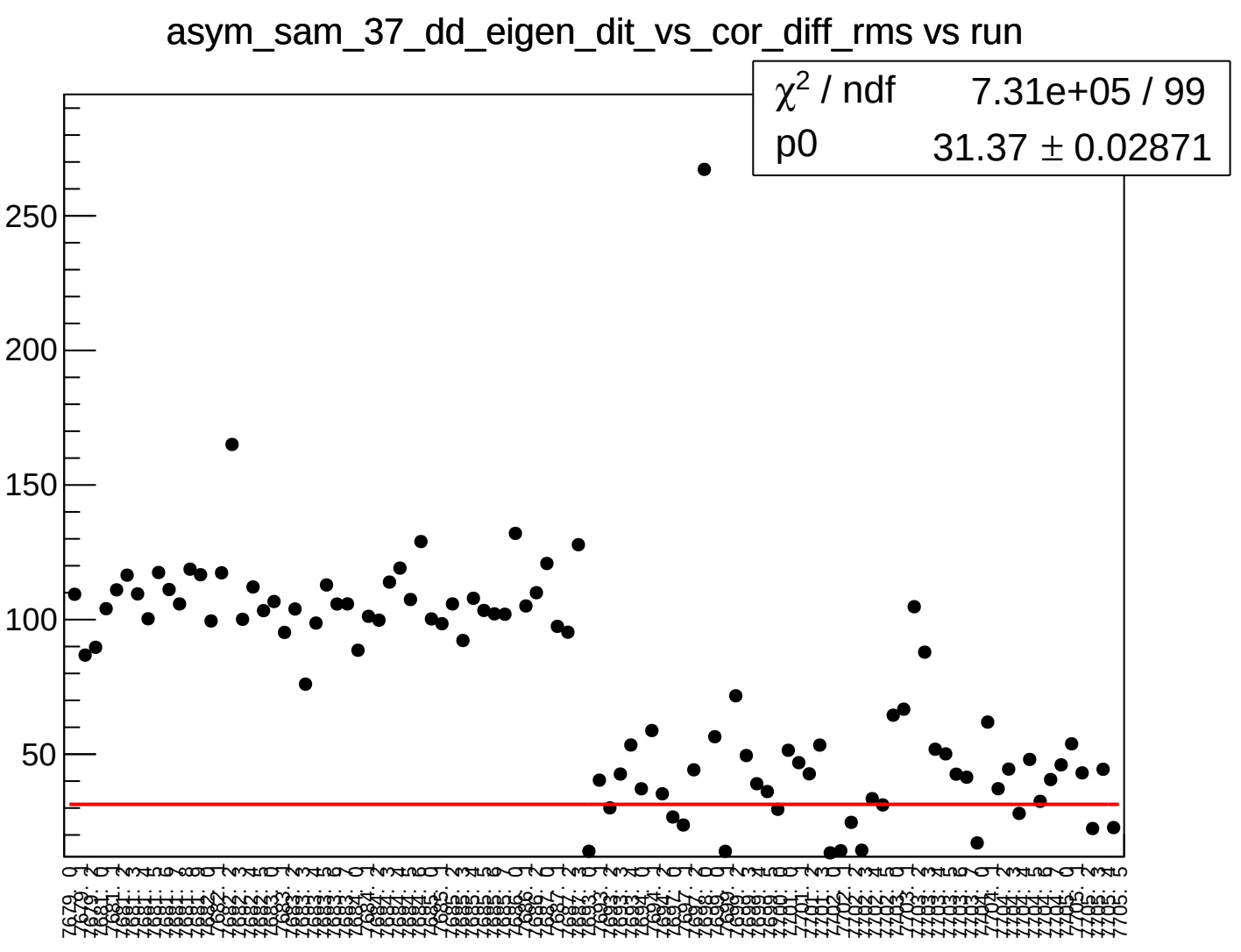

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.31e+05 / 99
p0 31.37 ± 0.02871
250
200
150
100
50

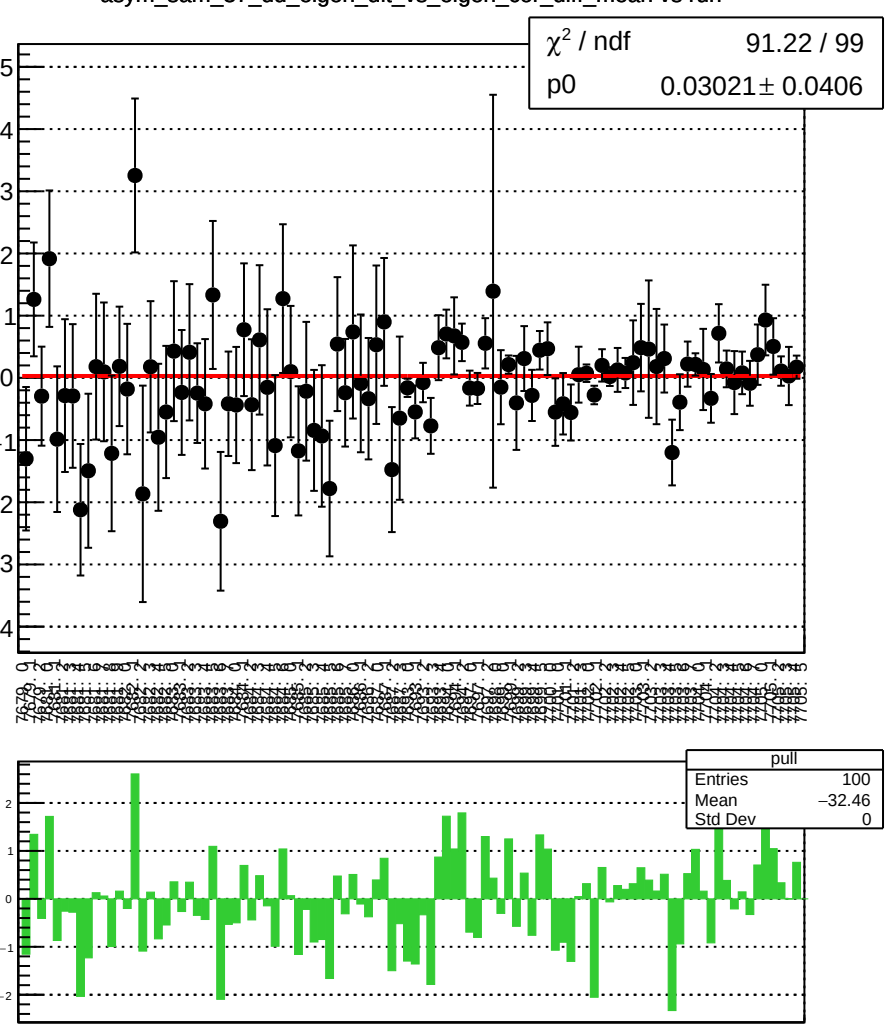

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.04 / 99
p0 7.235e−07 ± 4.662e−07
pull
Entries 100
Mean 27.62
Std Dev 0

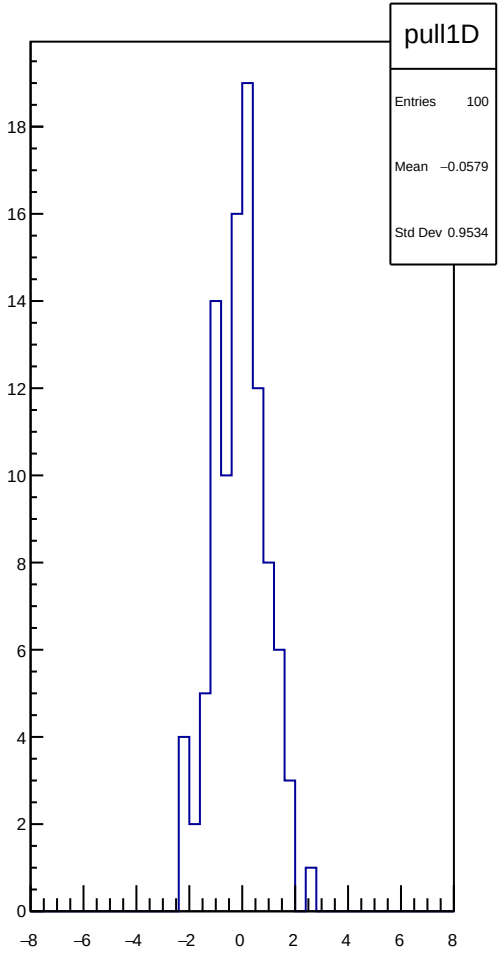

pull1D
Entries 100
Mean −0.0982
Std Dev 0.9699

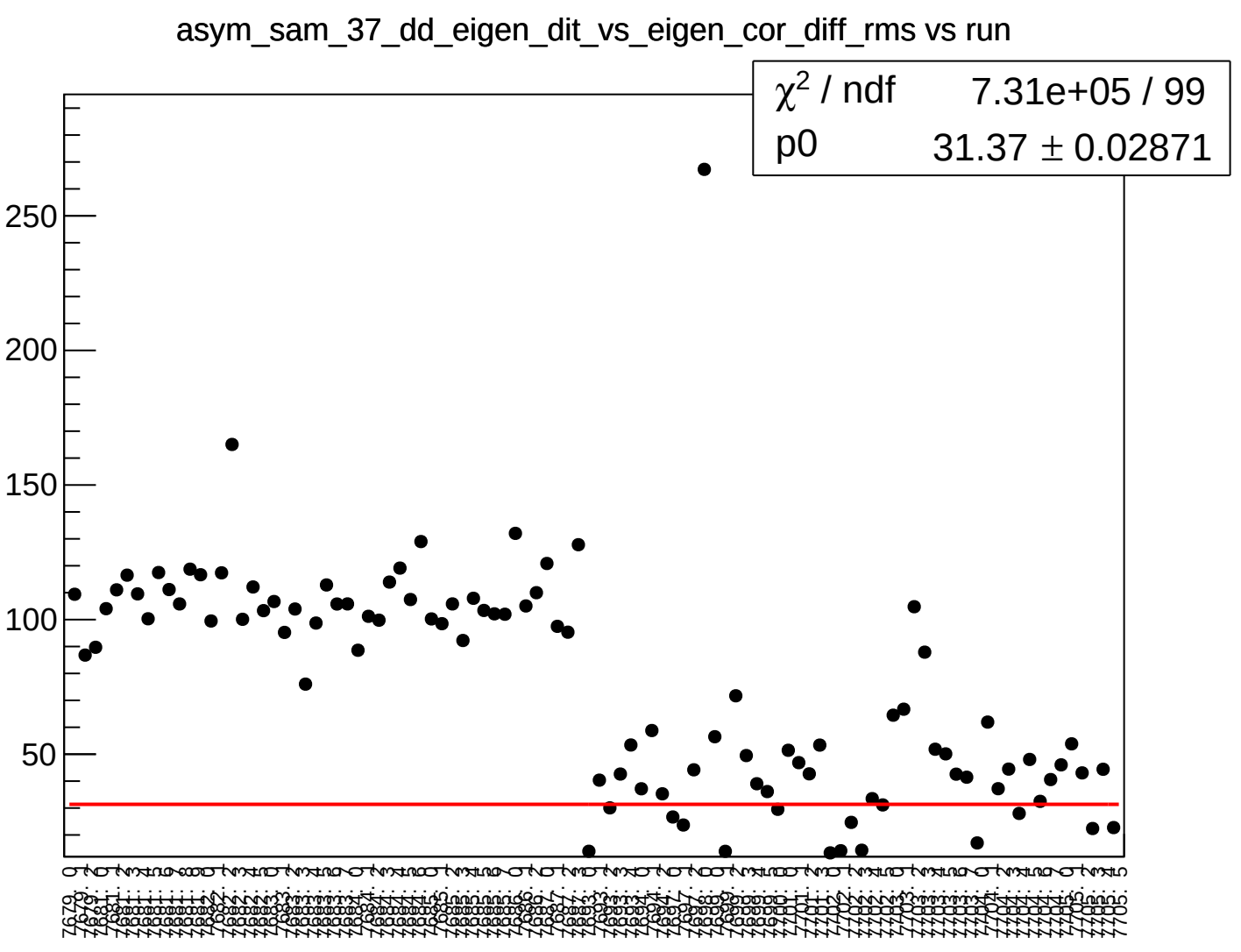

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.252e+06 / 99
p0 0.0002704 ± 3.296e−07
0.006
0.005
0.004
0.003
0.002
0.001

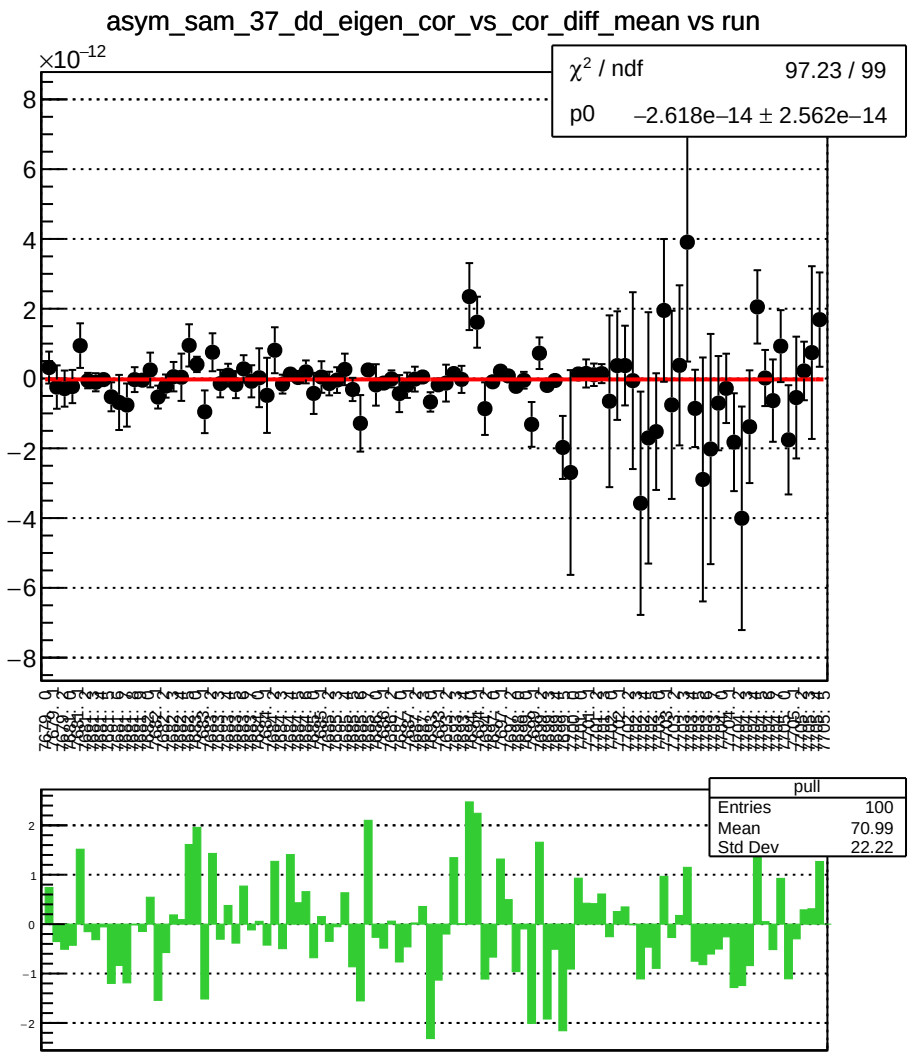

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.22 / 99
p0 0.03021 ± 0.0406
pull
Entries 100
Mean −32.46
Std Dev 0
pull1D
Entries 100
Mean −0.0579
Std Dev 0.9534

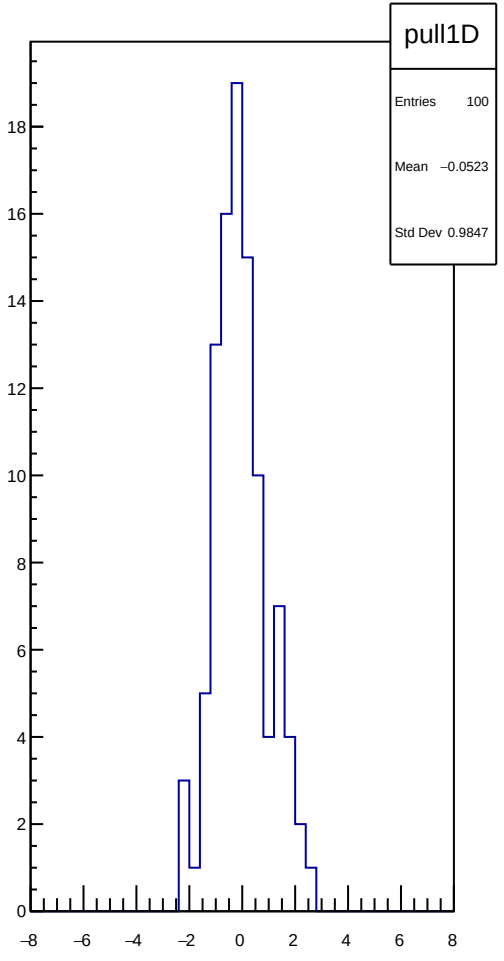

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.31e+05 / 99
p0 31.37 ± 0.02871
250
200
150
100
50

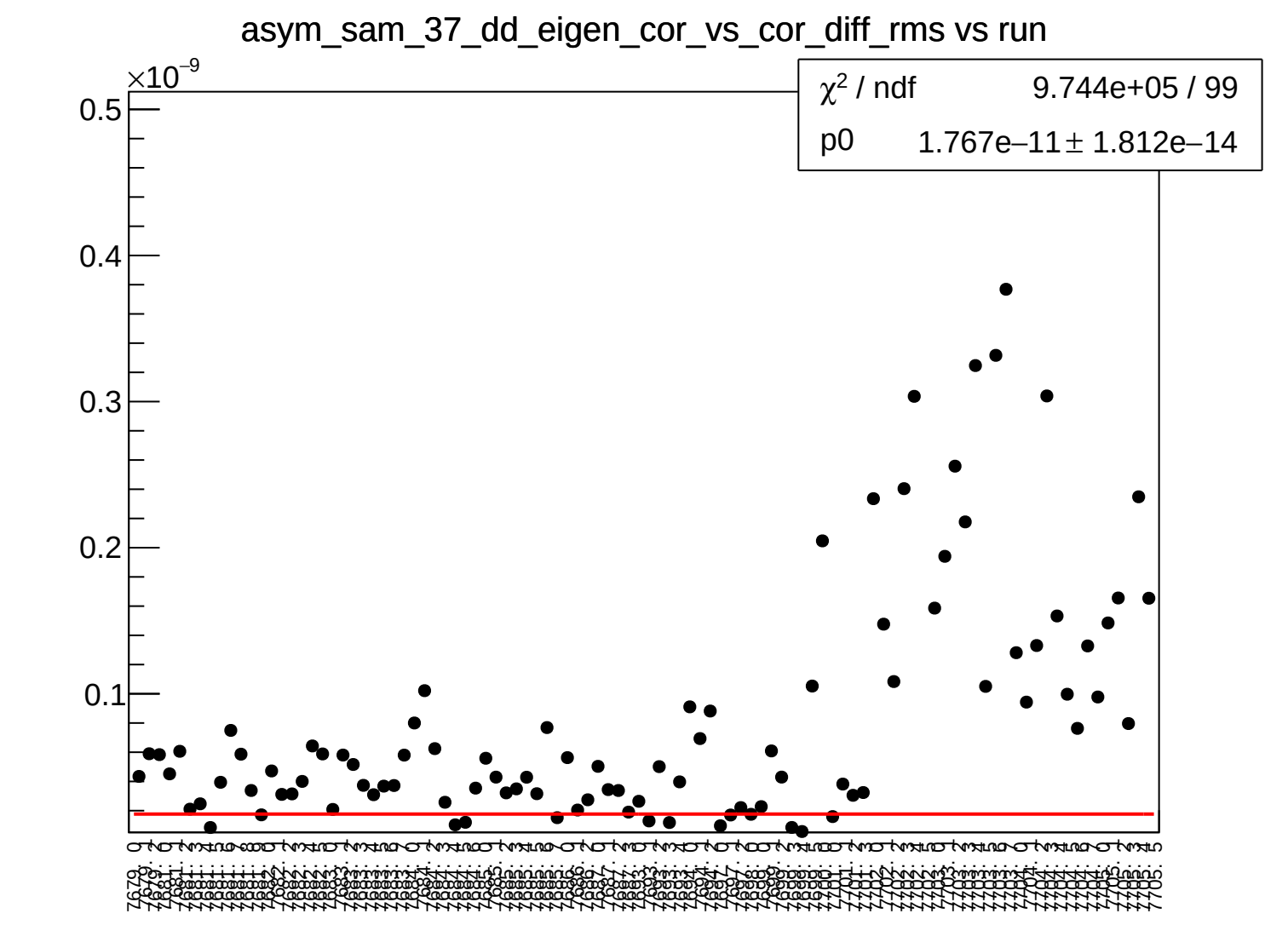

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.22 / 99
p0 0.03021 ± 0.0406
pull
Entries 100
Mean −32.46
Std Dev 0

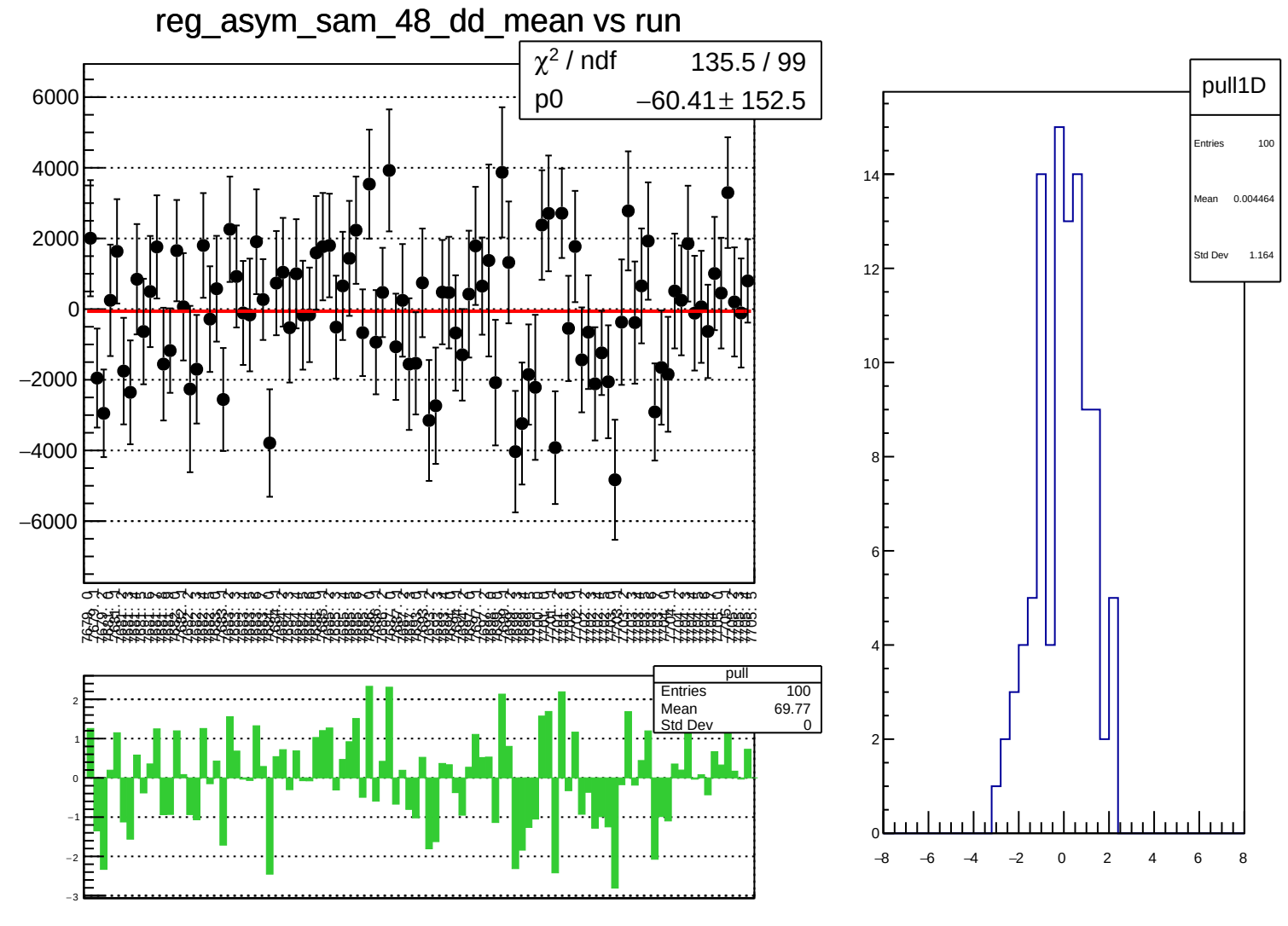

pull1D
Entries 100
Mean −0.0579
Std Dev 0.9534

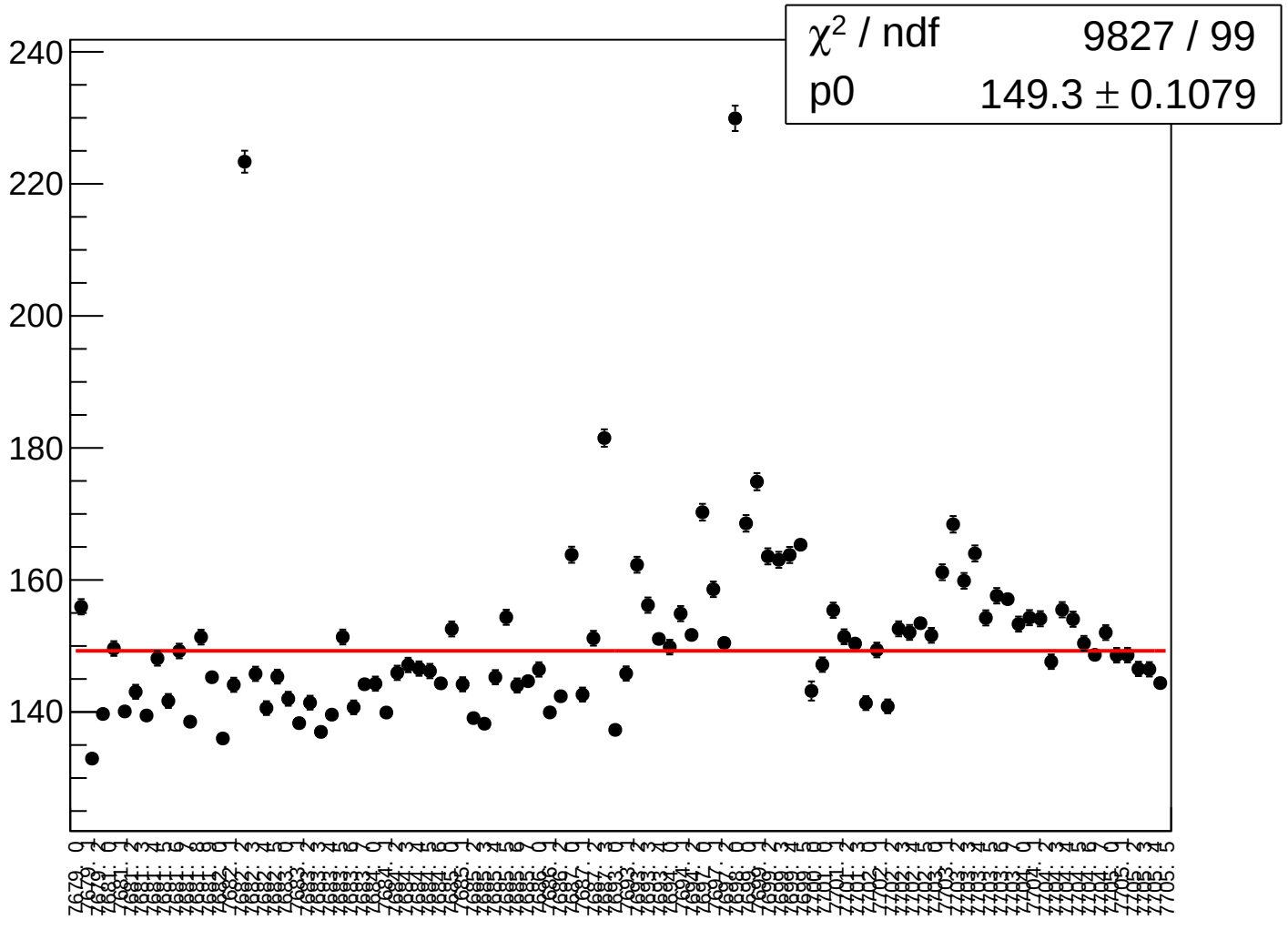

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.31e+05 / 99
p0 31.37 ± 0.02871
250
200
150
100
50

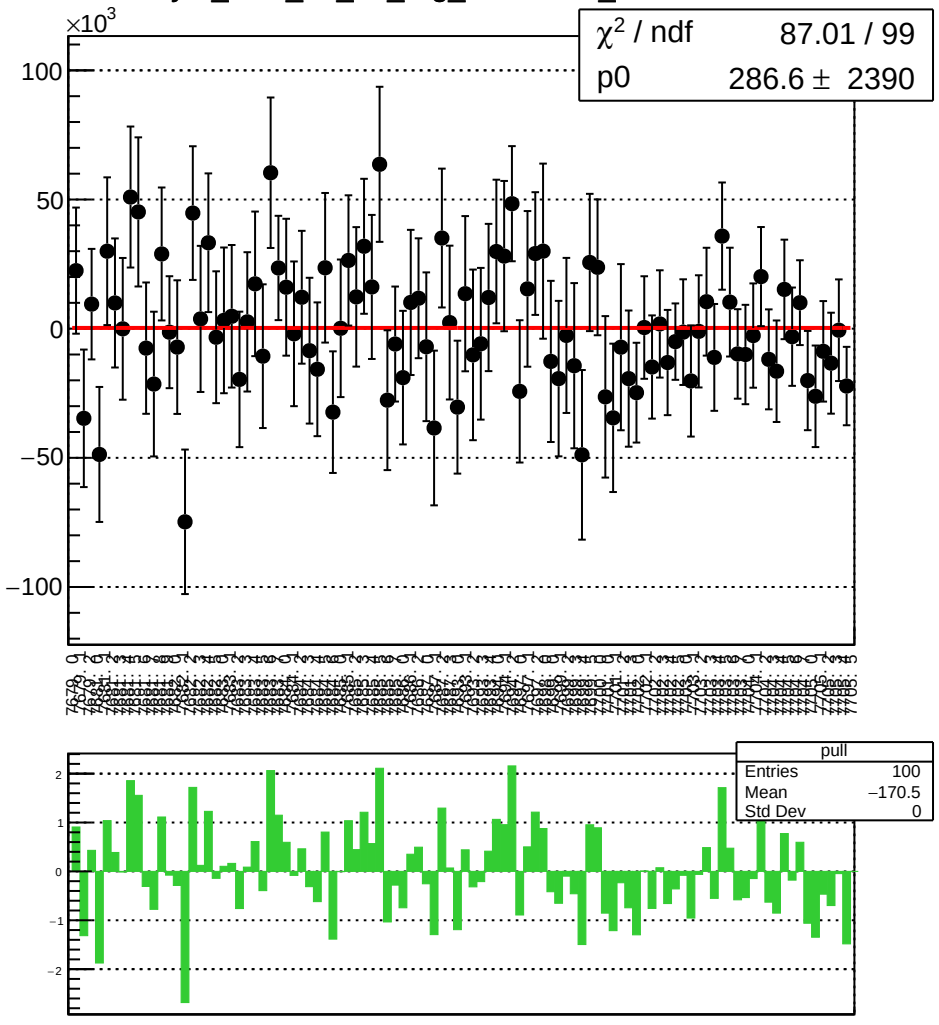

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 97.23 / 99
p0 −2.618e−14 ± 2.562e−14
pull
Entries 100
Mean 70.99
Std Dev 22.22

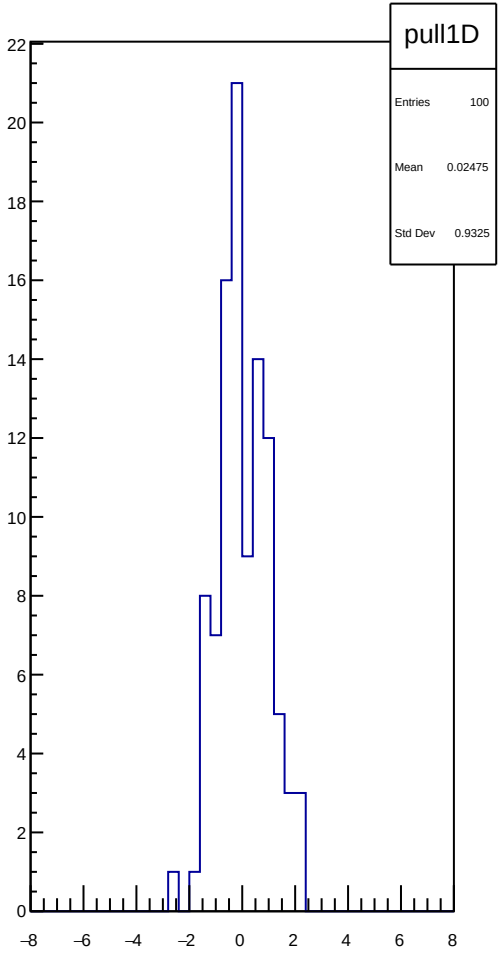

pull1D
Entries 100
Mean −0.0523
Std Dev 0.9847

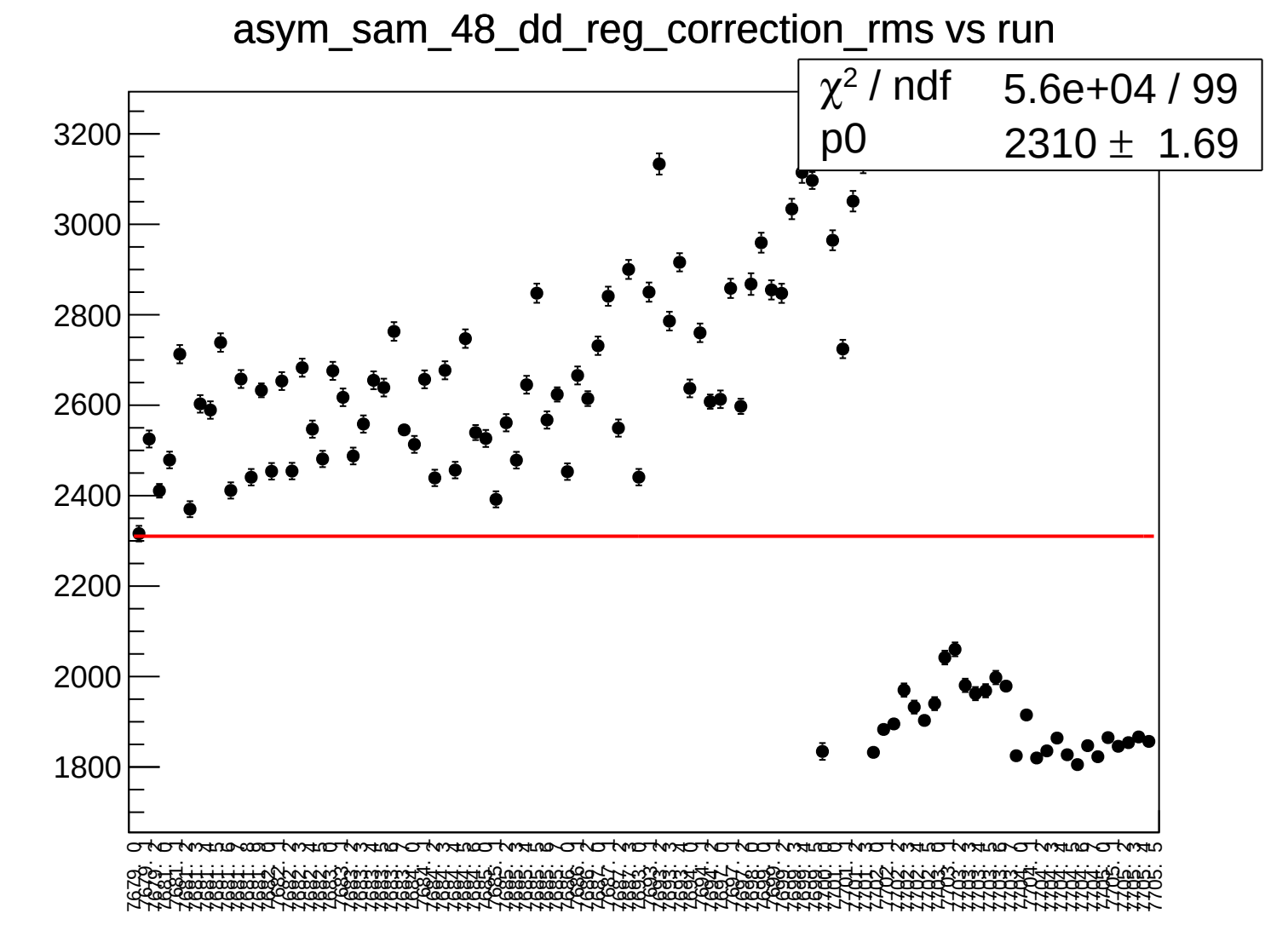

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.5
0.4
0.3
0.2
0.1
χ² / ndf 9.744e+05 / 99
p0 1.767e−11 ± 1.812e−14

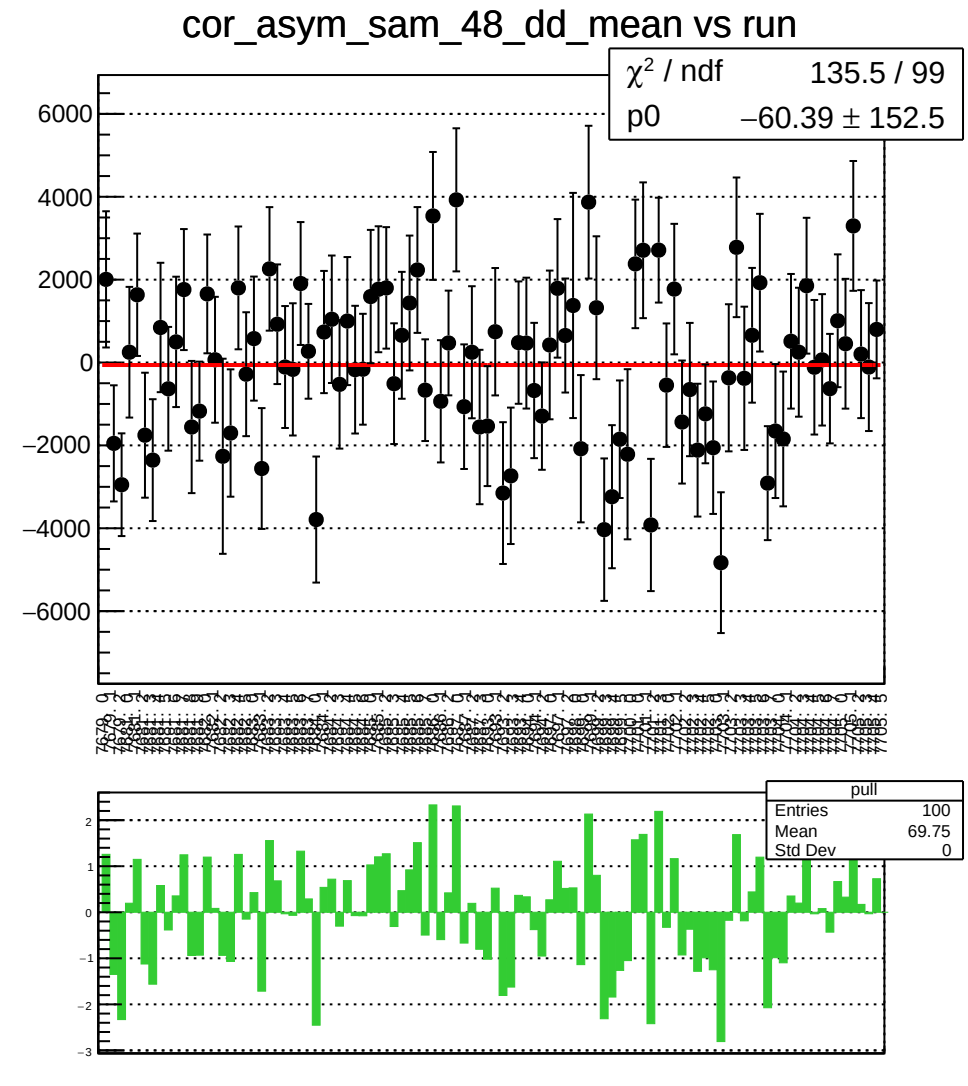

reg_asym_sam_48_dd_mean vs run
χ² / ndf 135.5 / 99
p0 −60.41 ± 152.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 69.77
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean 0.004464
Std Dev 1.164
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

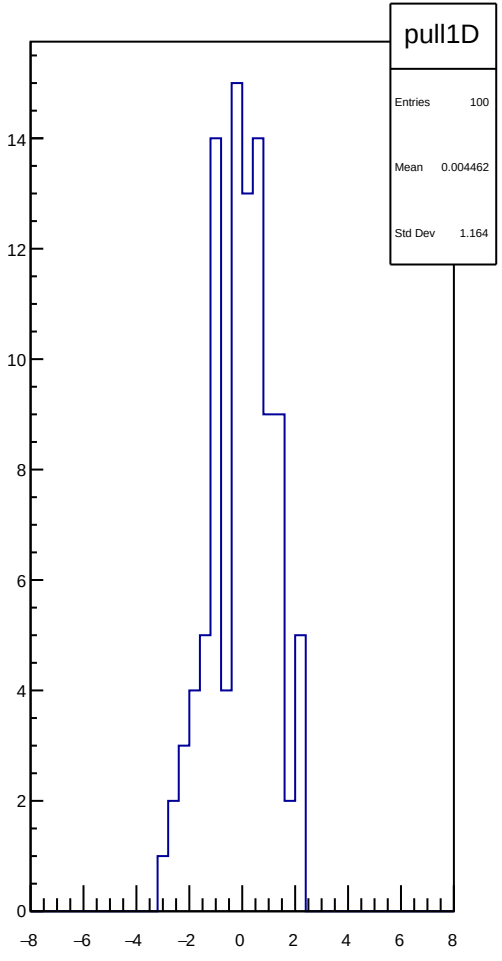

reg_asym_sam_48_dd_rms vs run
χ² / ndf 9827 / 99
p0 149.3 ± 0.1079
240
220
200
180
160
140

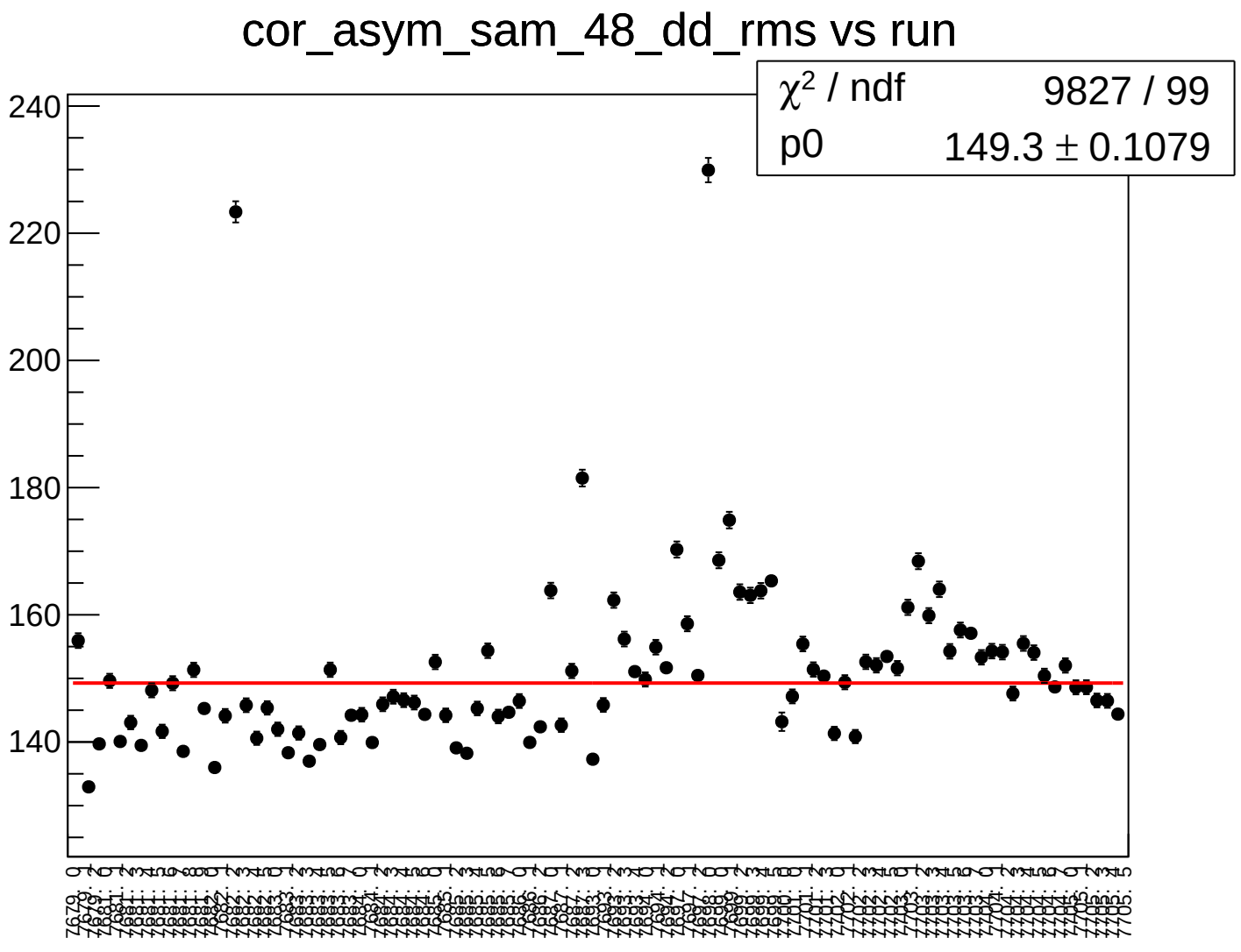

asym_sam_48_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 87.01 / 99
p0 286.6 ± 2390
pull
Entries 100
Mean −170.5
Std Dev 0

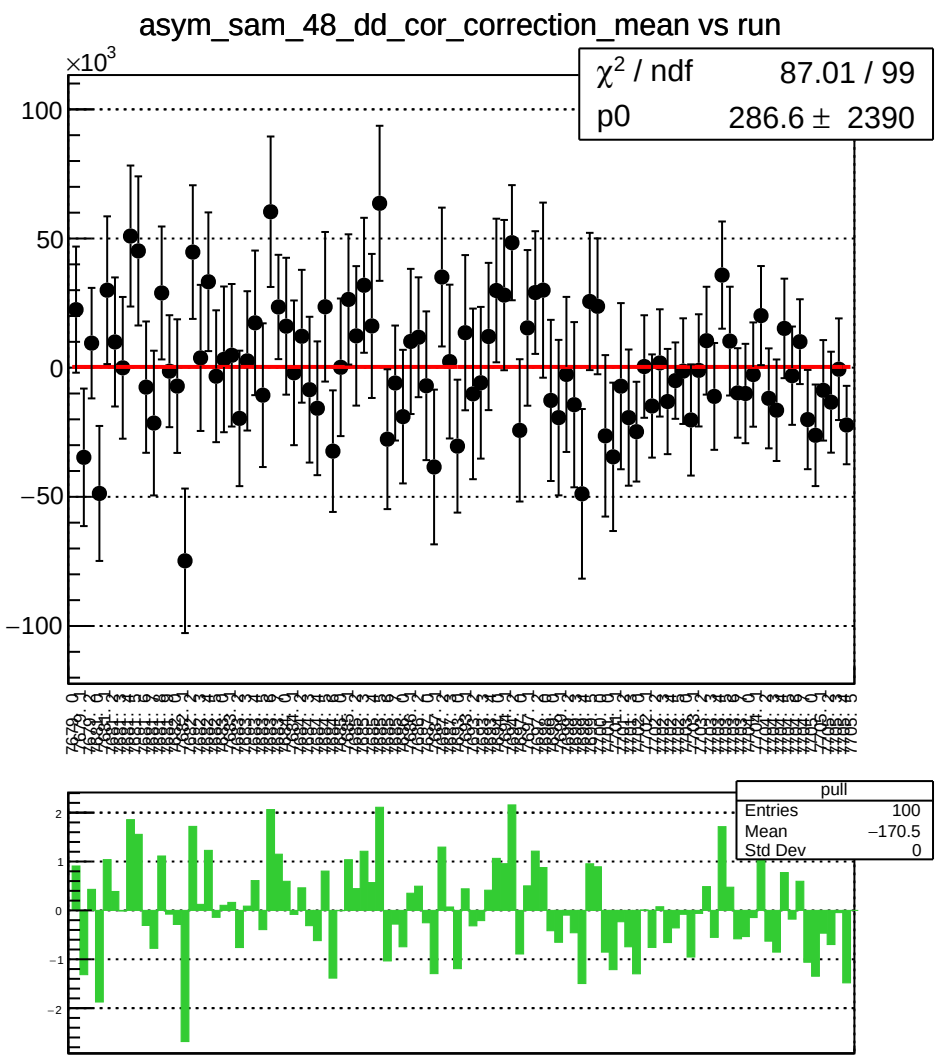

pull1D
Entries 100
Mean 0.02475
Std Dev 0.9325

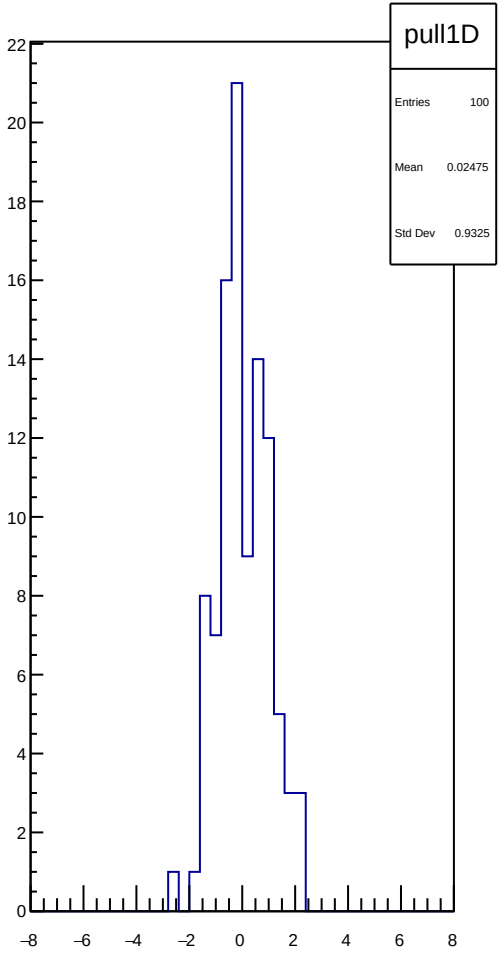

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 5.6e+04 / 99
p0 2310 ± 1.69
3200
3000
2800
2600
2400
2200
2000
1800

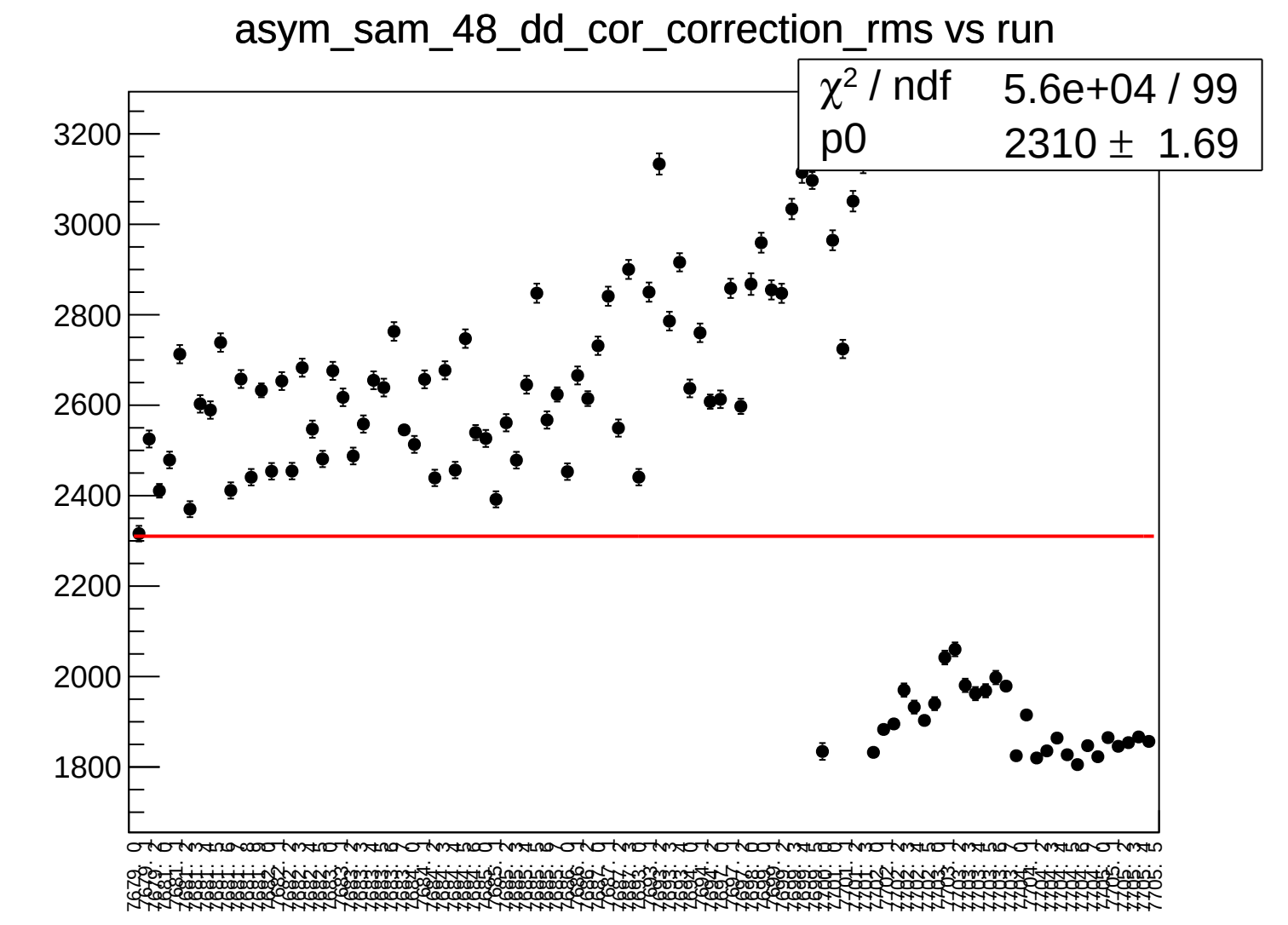

cor_asym_sam_48_dd_mean vs run
χ² / ndf 135.5 / 99
p0 −60.39 ± 152.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 69.75
Std Dev 0
2
1
0
−1
−2
−3

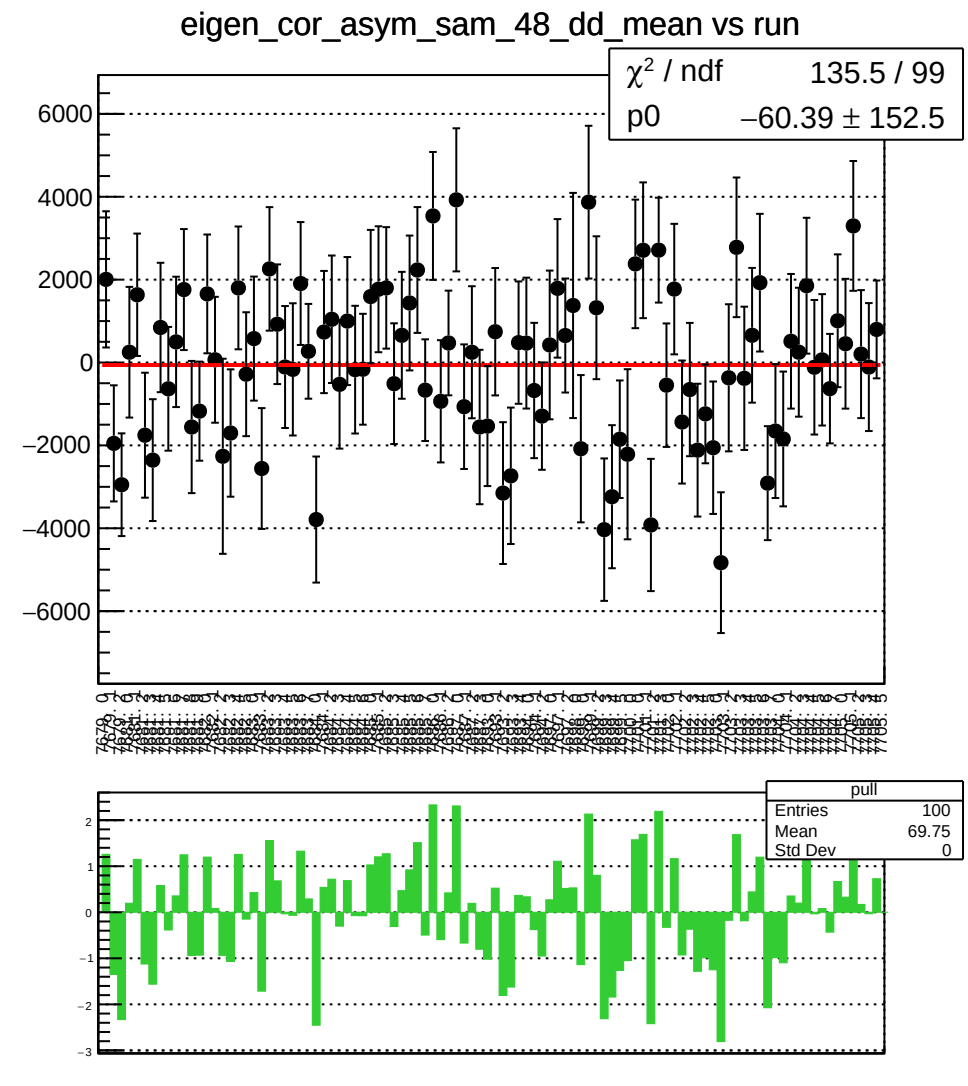

pull1D
Entries 100
Mean 0.004462
Std Dev 1.164
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

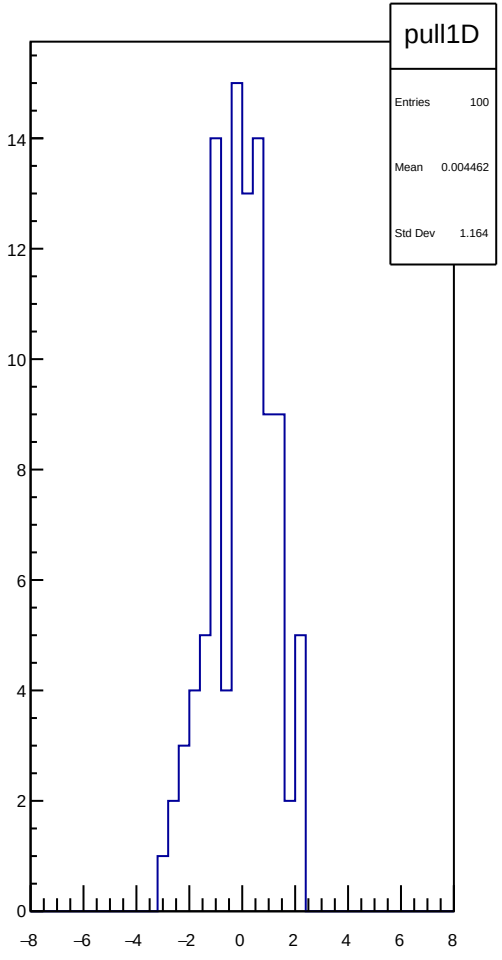

cor_asym_sam_48_dd_rms vs run
χ^2 / ndf 9827 / 99
p0 149.3 ± 0.1079
240
220
200
180
160
140

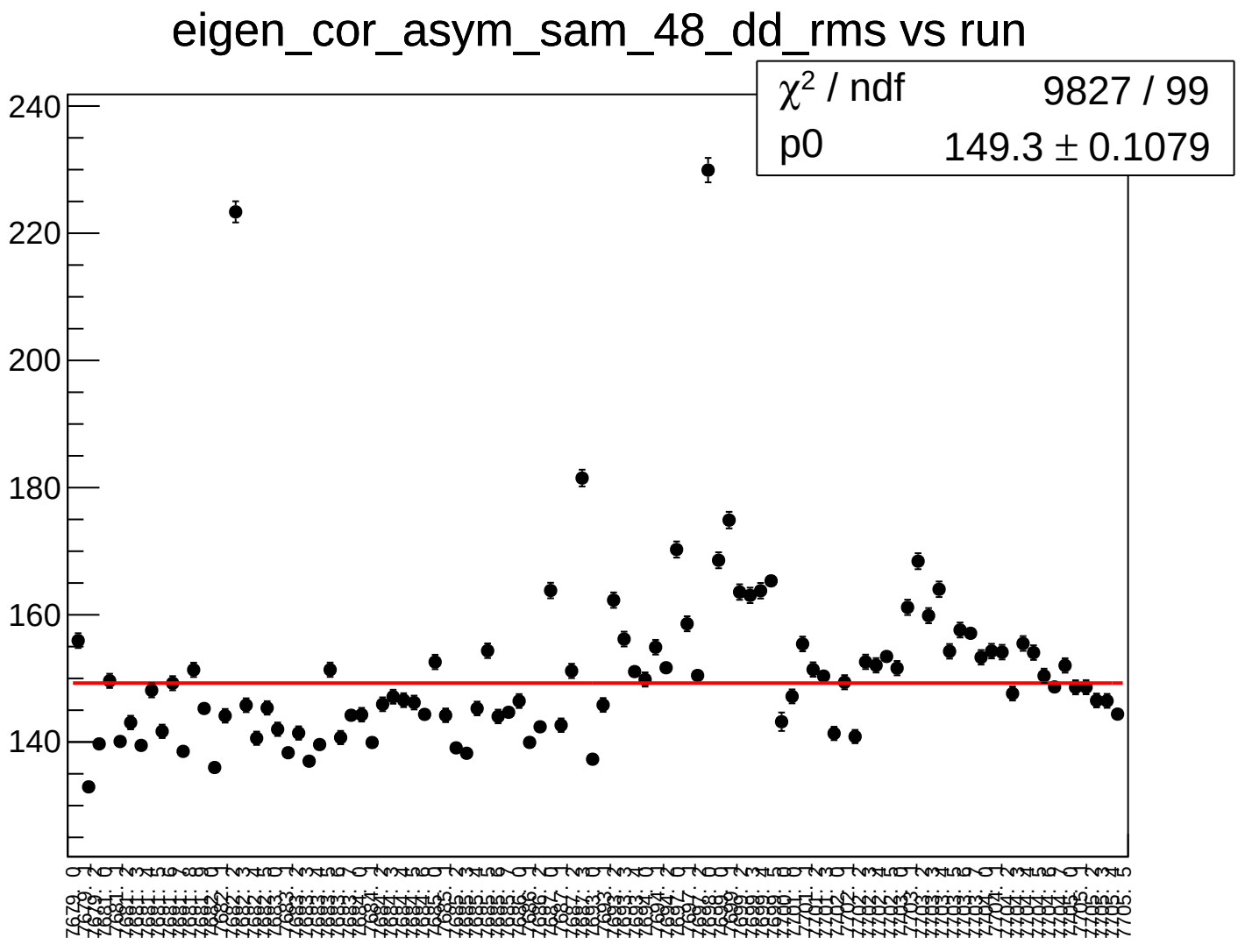

asym_sam_48_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 87.01 / 99
p0 286.6 ± 2390
100
50
0
−50
−100
pull
Entries 100
Mean −170.5
Std Dev 0
2
1
0
−1
−2

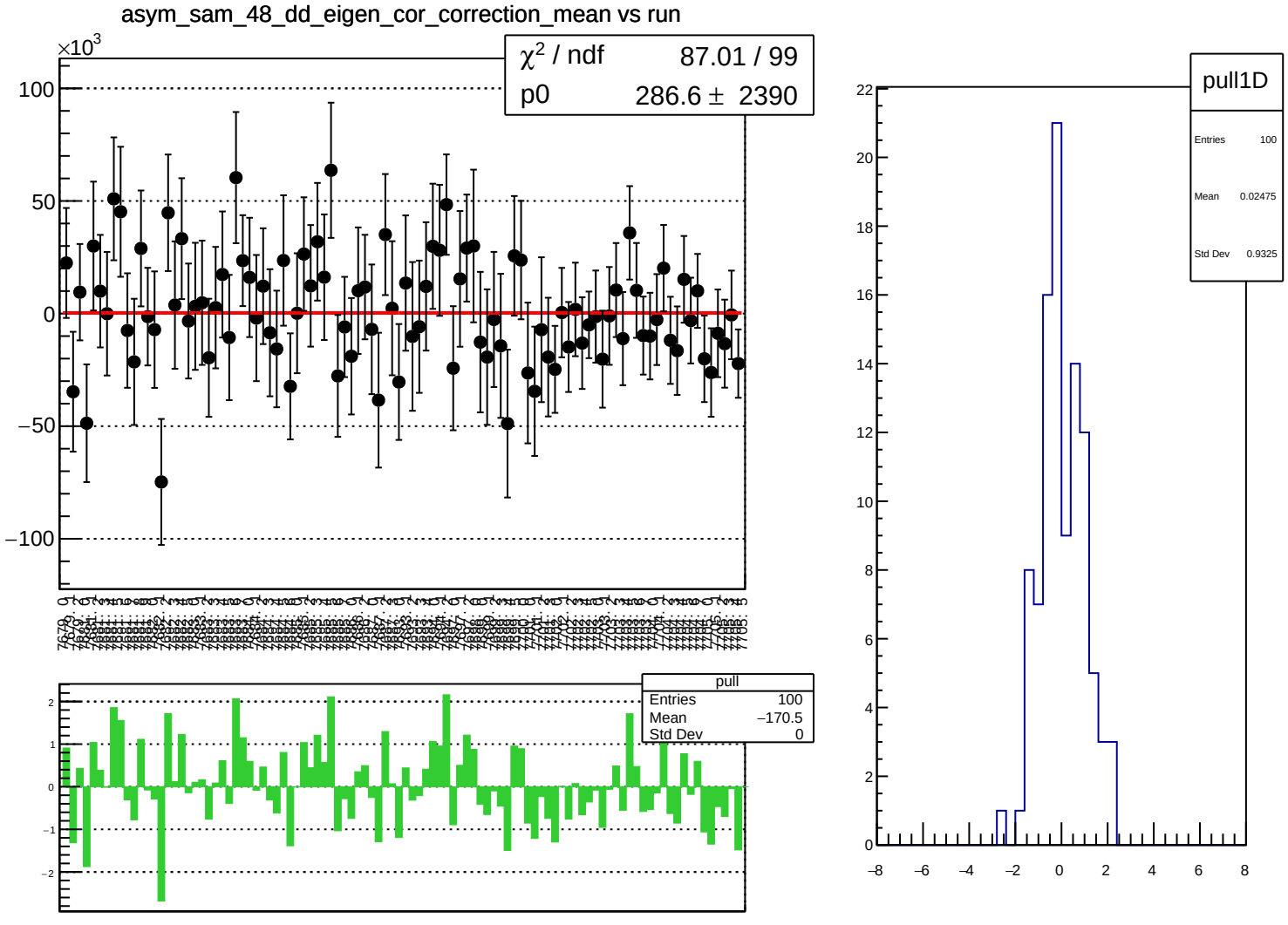

pull1D
Entries 100
Mean 0.02475
Std Dev 0.9325
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

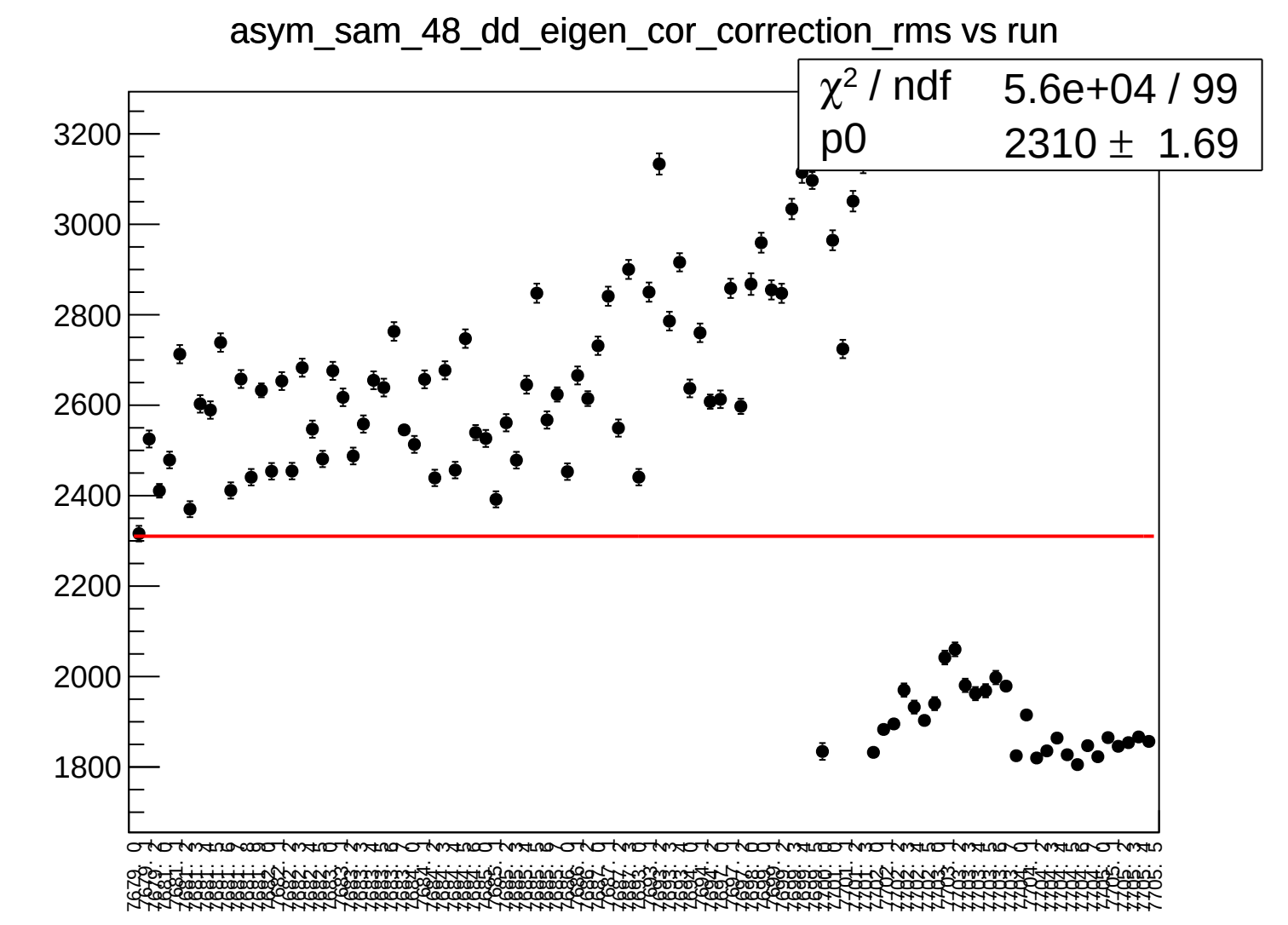

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 5.6e+04 / 99
p0 2310 ± 1.69
3200
3000
2800
2600
2400
2200
2000
1800

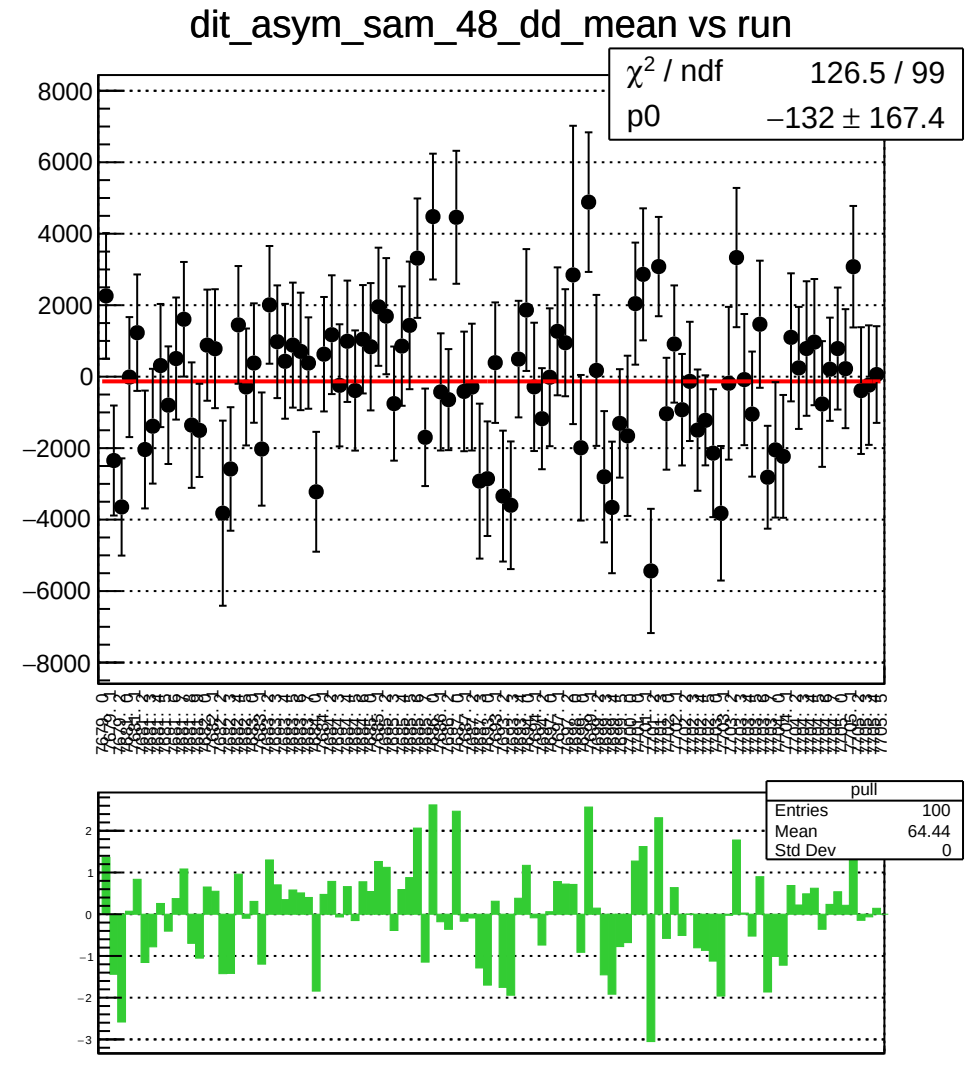

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 135.5 / 99
p0 −60.39 ± 152.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 69.75
Std Dev 0
2
1
0
−1
−2
−3

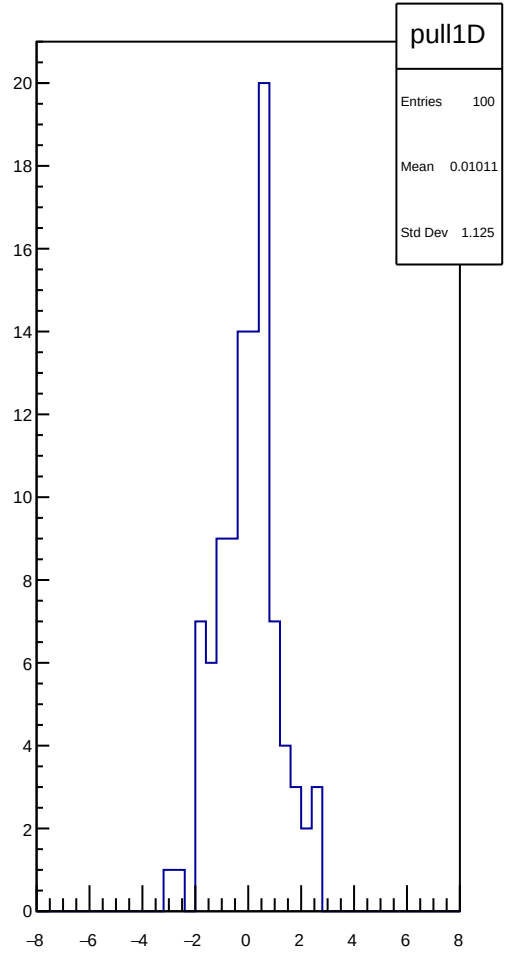

pull1D
Entries 100
Mean 0.004462
Std Dev 1.164
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

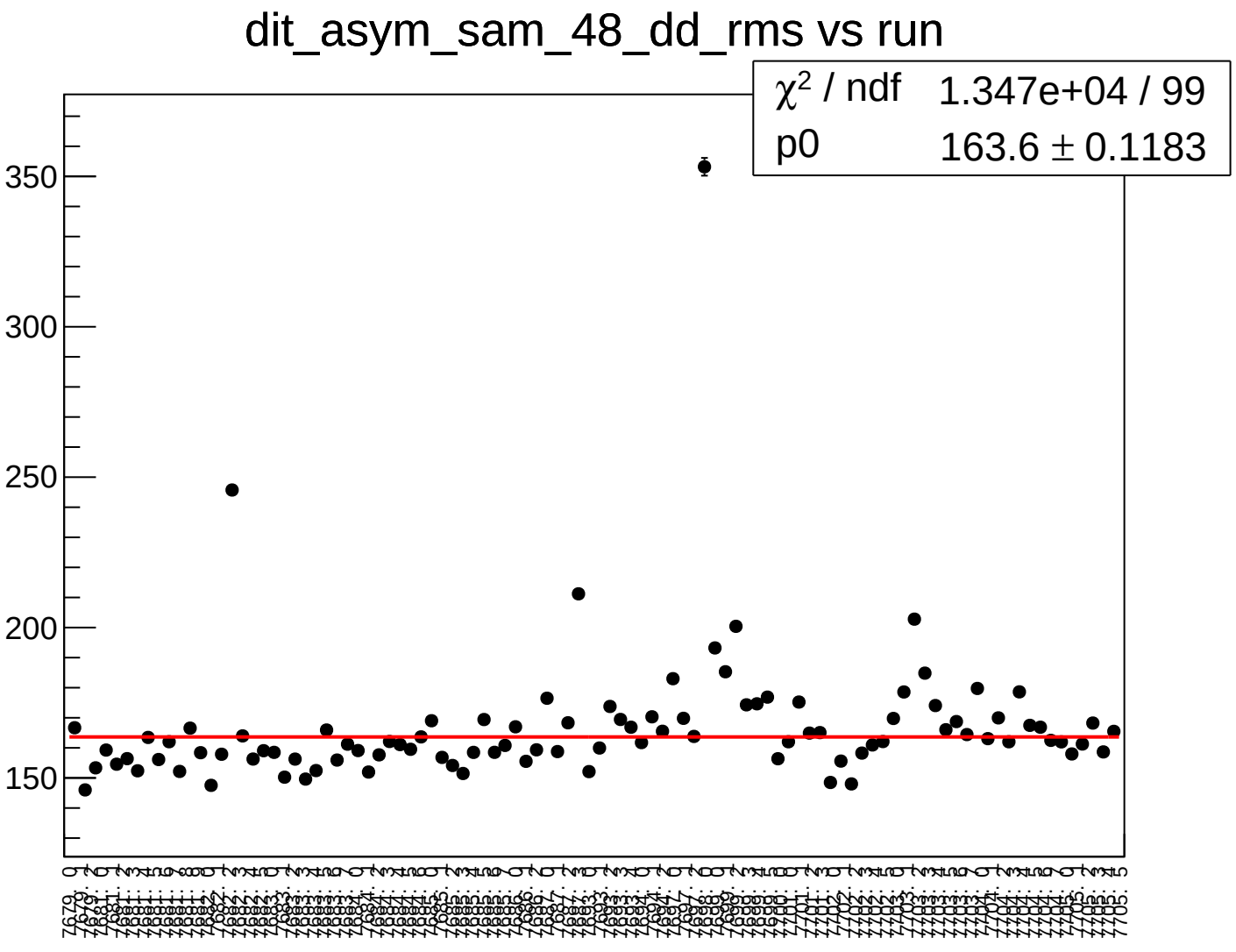

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 9827 / 99
p0 149.3 ± 0.1079
240
220
200
180
160
140

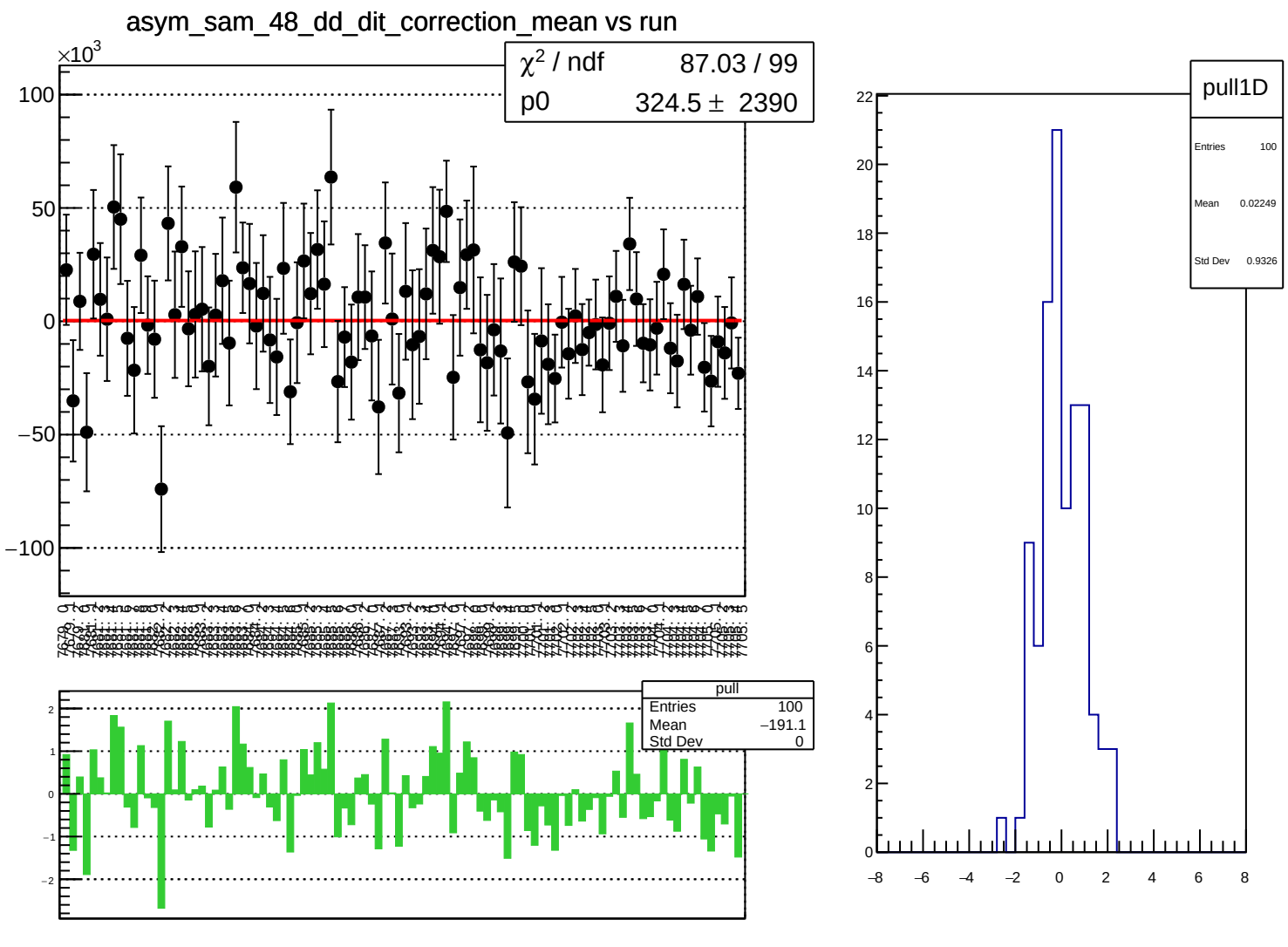

asym_sam_48_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 87.01 / 99
p0 286.6 ± 2390
100
50
0
−50
−100
pull
Entries 100
Mean −170.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.02475
Std Dev 0.9325
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

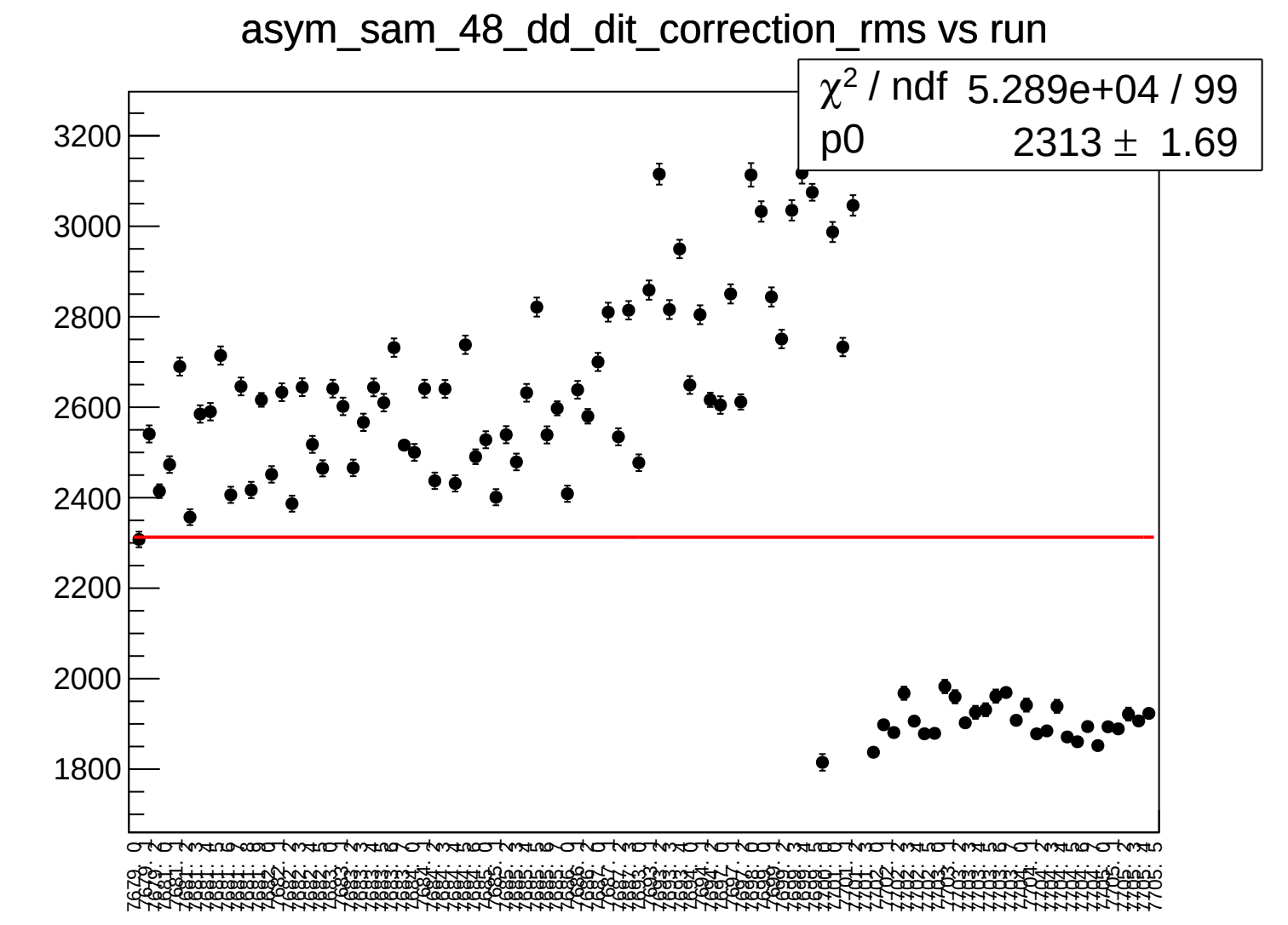

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 5.6e+04 / 99
p0 2310 ± 1.69
3200
3000
2800
2600
2400
2200
2000
1800

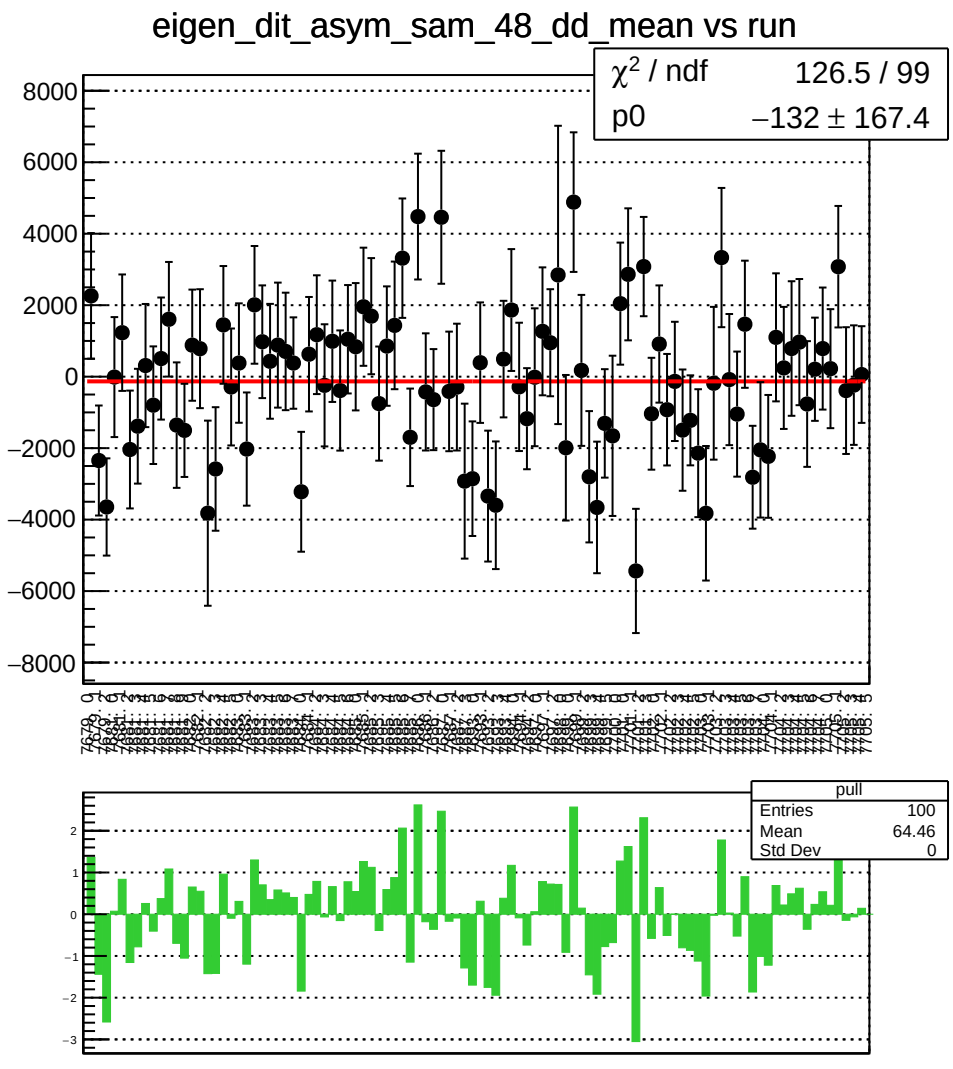

dit_asym_sam_48_dd_mean vs run
χ² / ndf 126.5 / 99
p0 −132 ± 167.4
pull
Entries 100
Mean 64.44
Std Dev 0

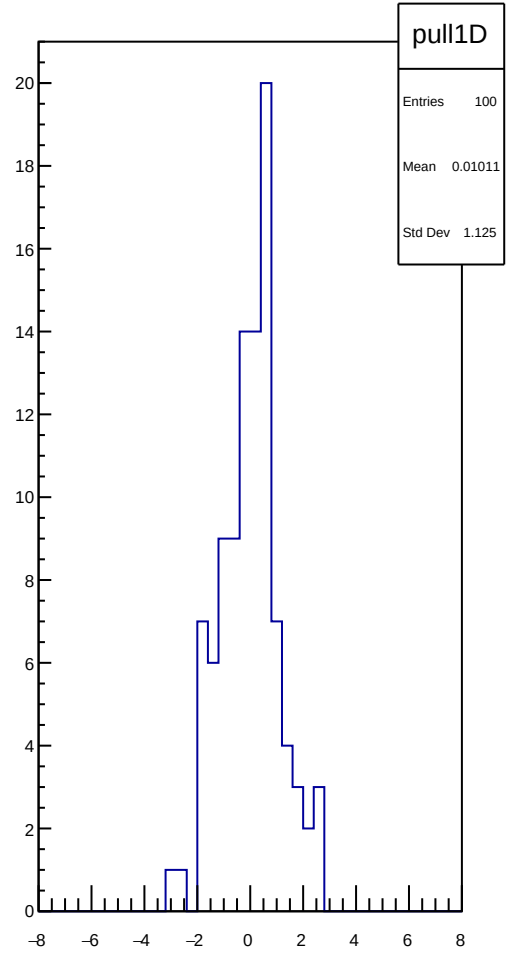

pull1D
Entries 100
Mean 0.01011
Std Dev 1.125

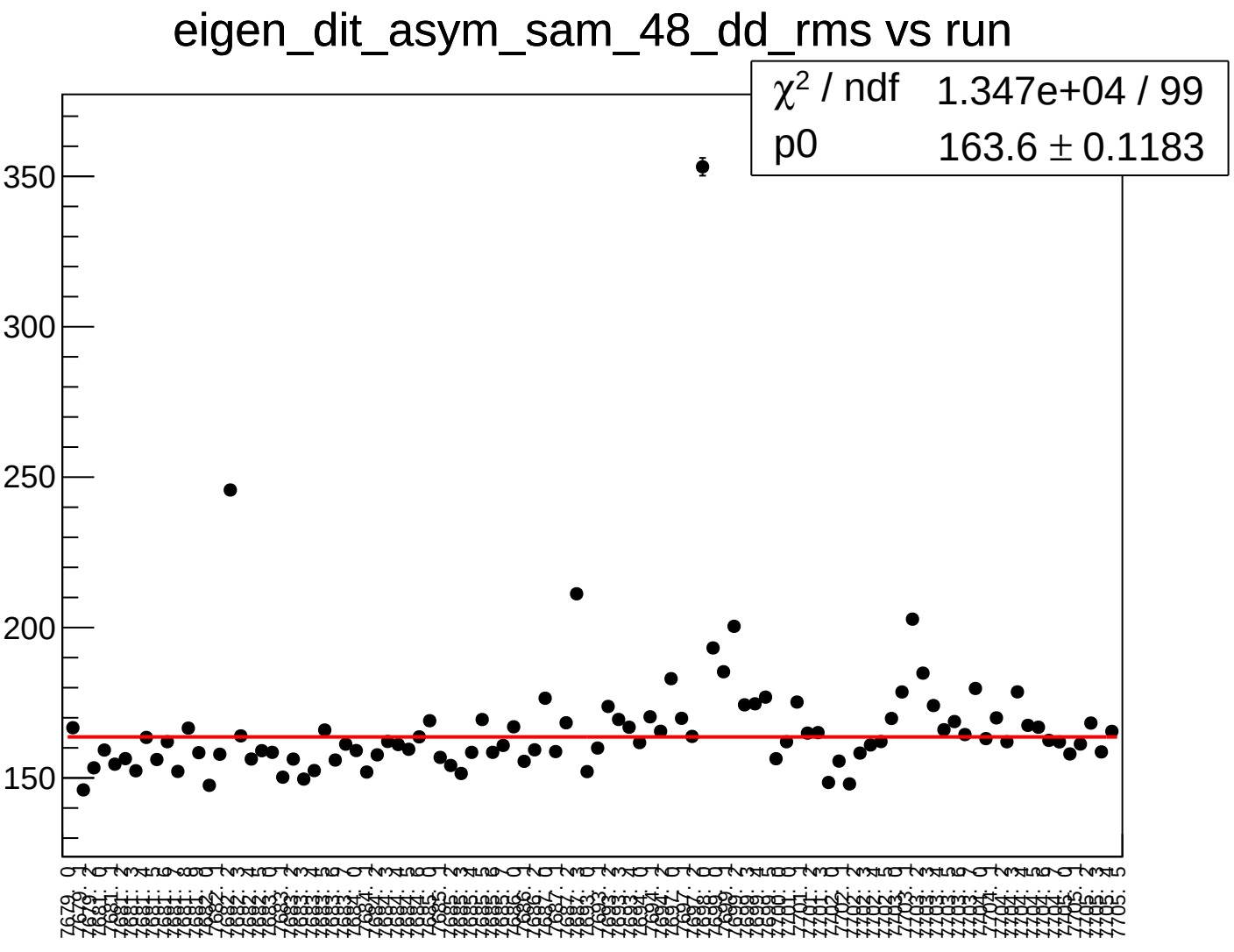

dit_asym_sam_48_dd_rms vs run
χ^2 / ndf 1.347e+04 / 99
p0 163.6 ± 0.1183
350
300
250
200
150

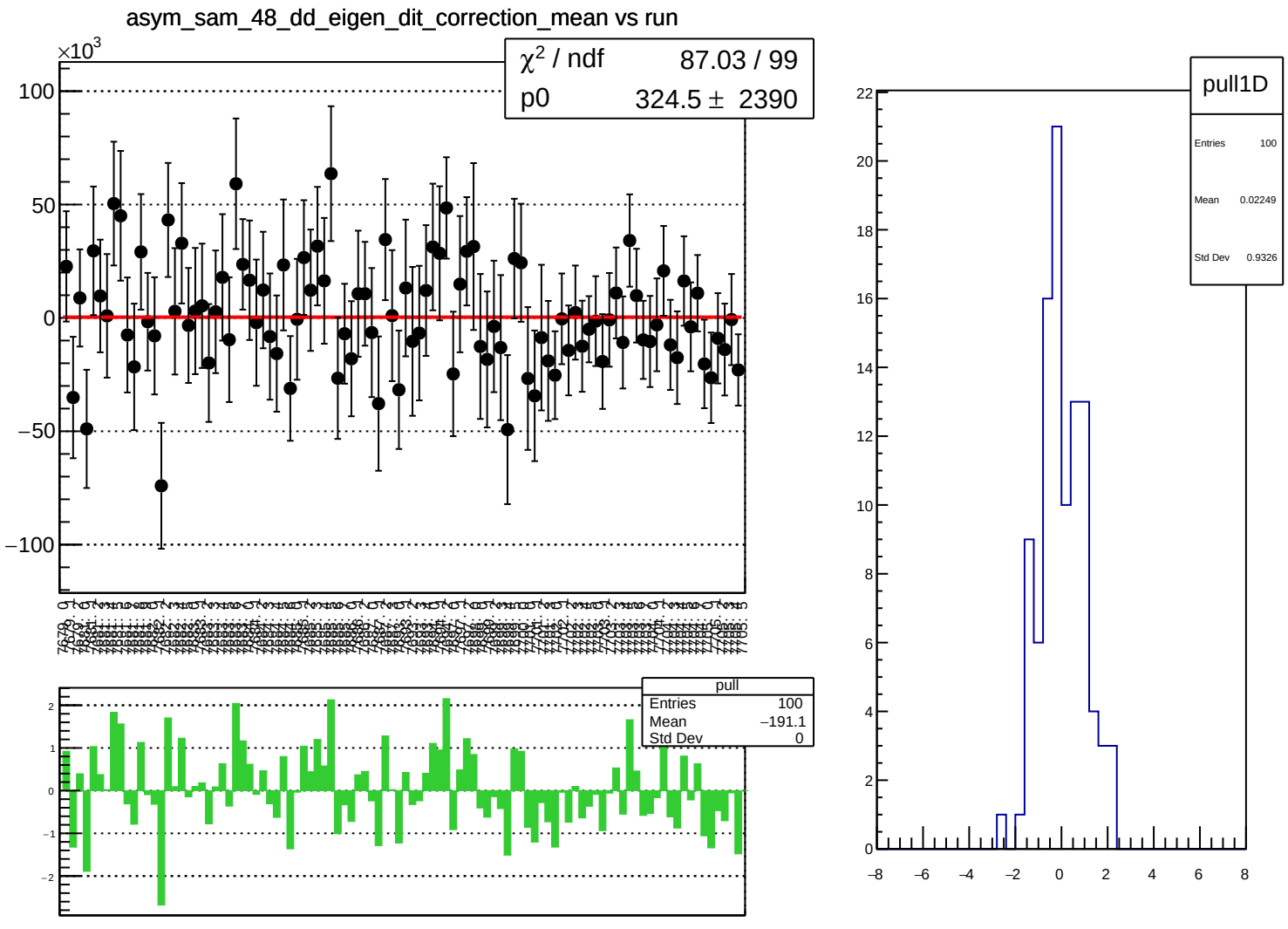

asym_sam_48_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 87.03 / 99
p0 324.5 ± 2390
100
50
0
−50
−100
pull
Entries 100
Mean −191.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.02249
Std Dev 0.9326
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

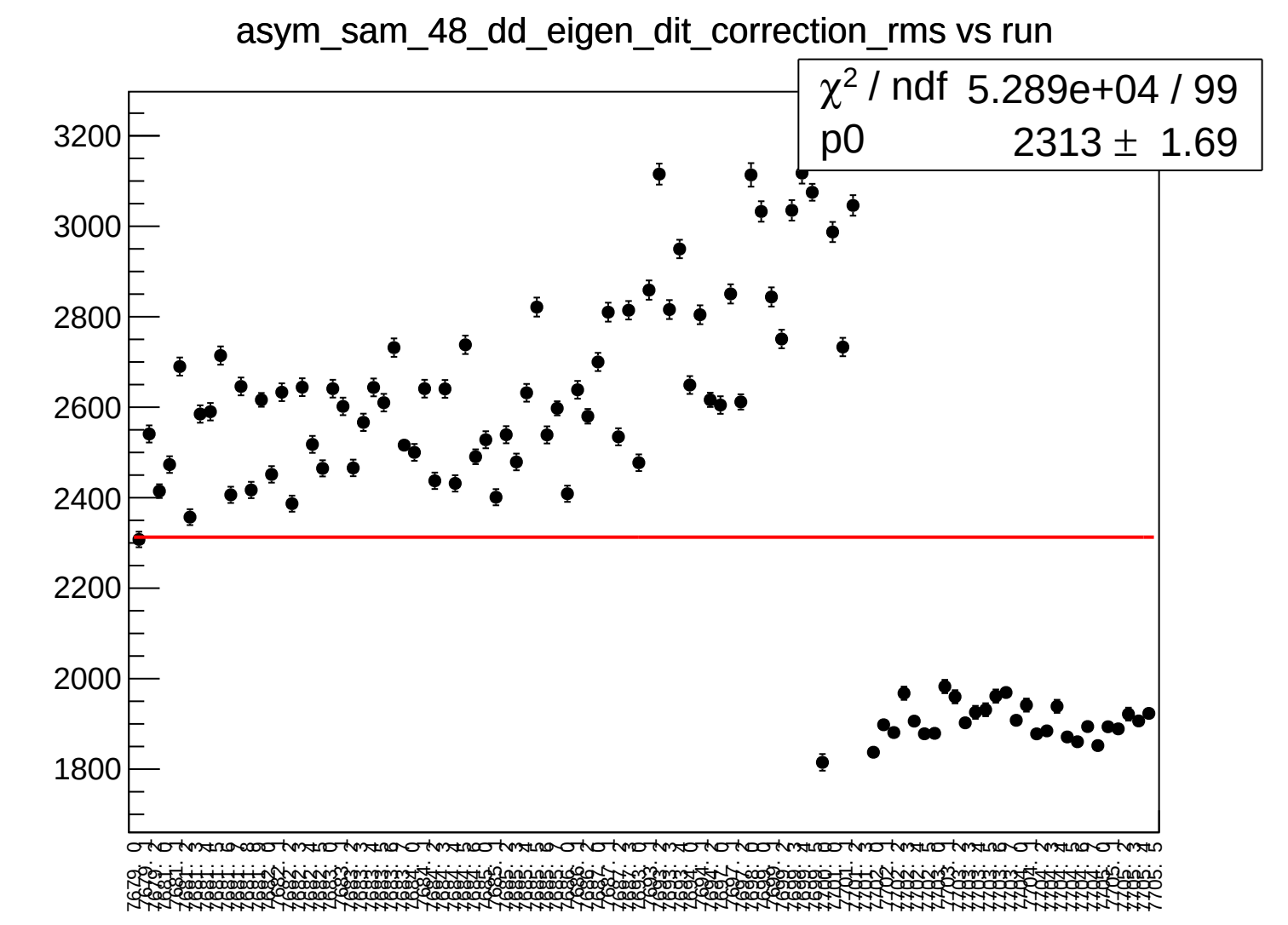

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 5.289e+04 / 99
p0 2313 ± 1.69
3200
3000
2800
2600
2400
2200
2000
1800

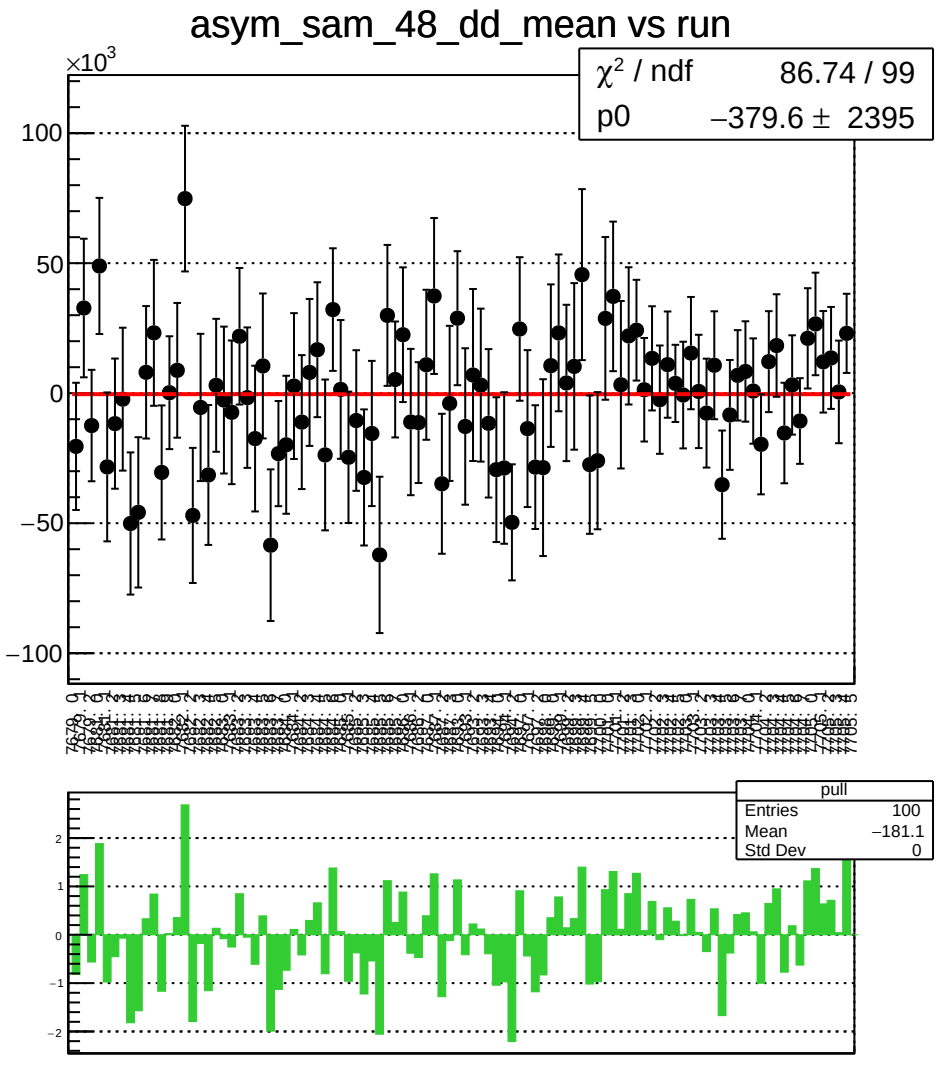

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 126.5 / 99
p0 −132 ± 167.4
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 100
Mean 64.46
Std Dev 0
2
1
0
−1
−2
−3

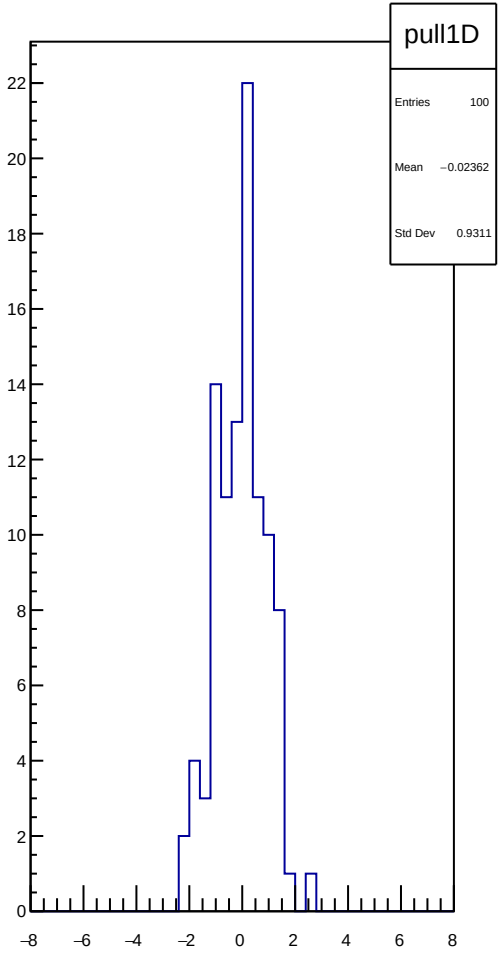

pull1D
Entries 100
Mean 0.01011
Std Dev 1.125
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

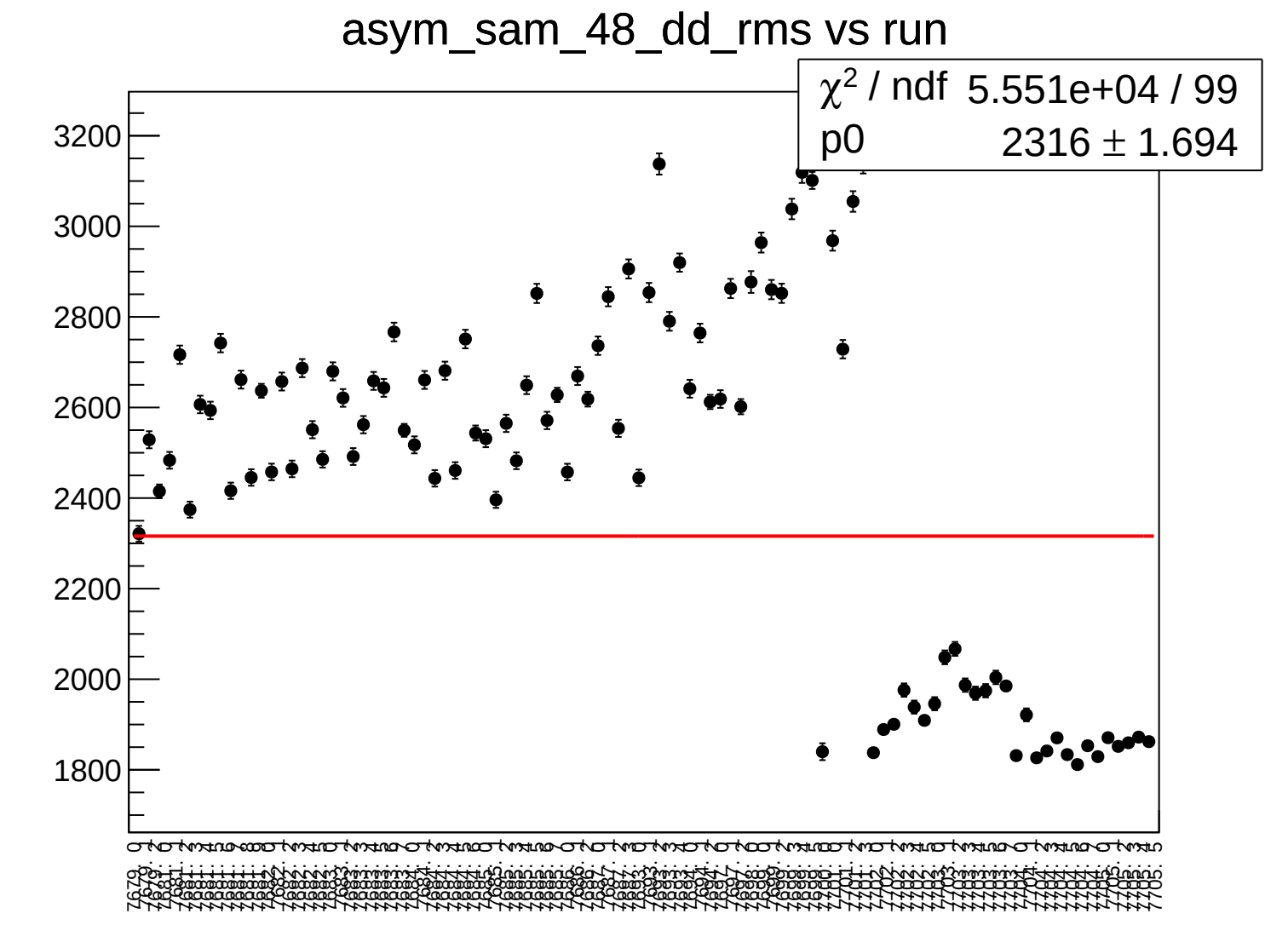

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 1.347e+04 / 99
p0 163.6 ± 0.1183
350
300
250
200
150

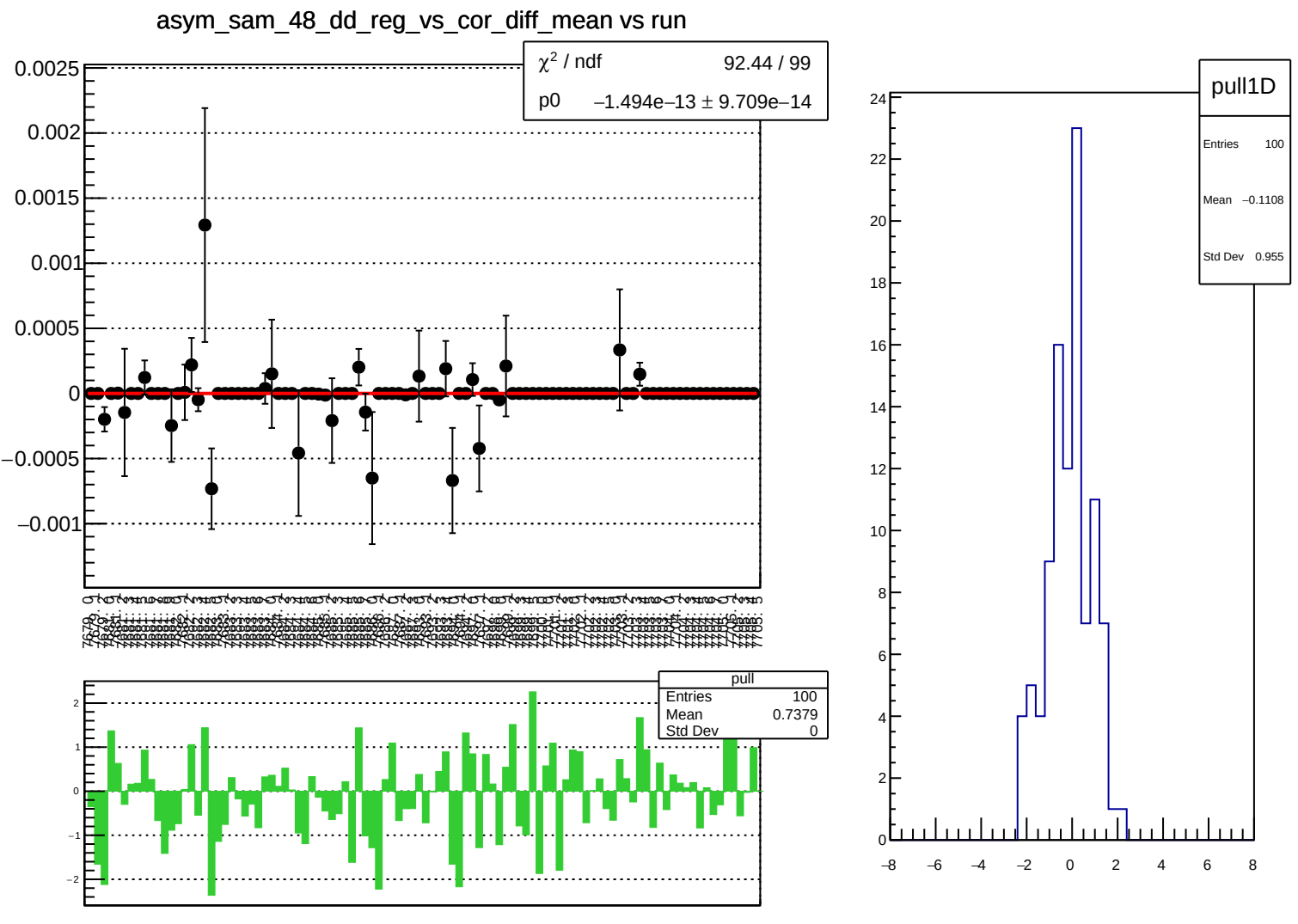

asym_sam_48_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 87.03 / 99
p0 324.5 ± 2390
100
50
0
−50
−100
pull
Entries 100
Mean −191.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.02249
Std Dev 0.9326
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

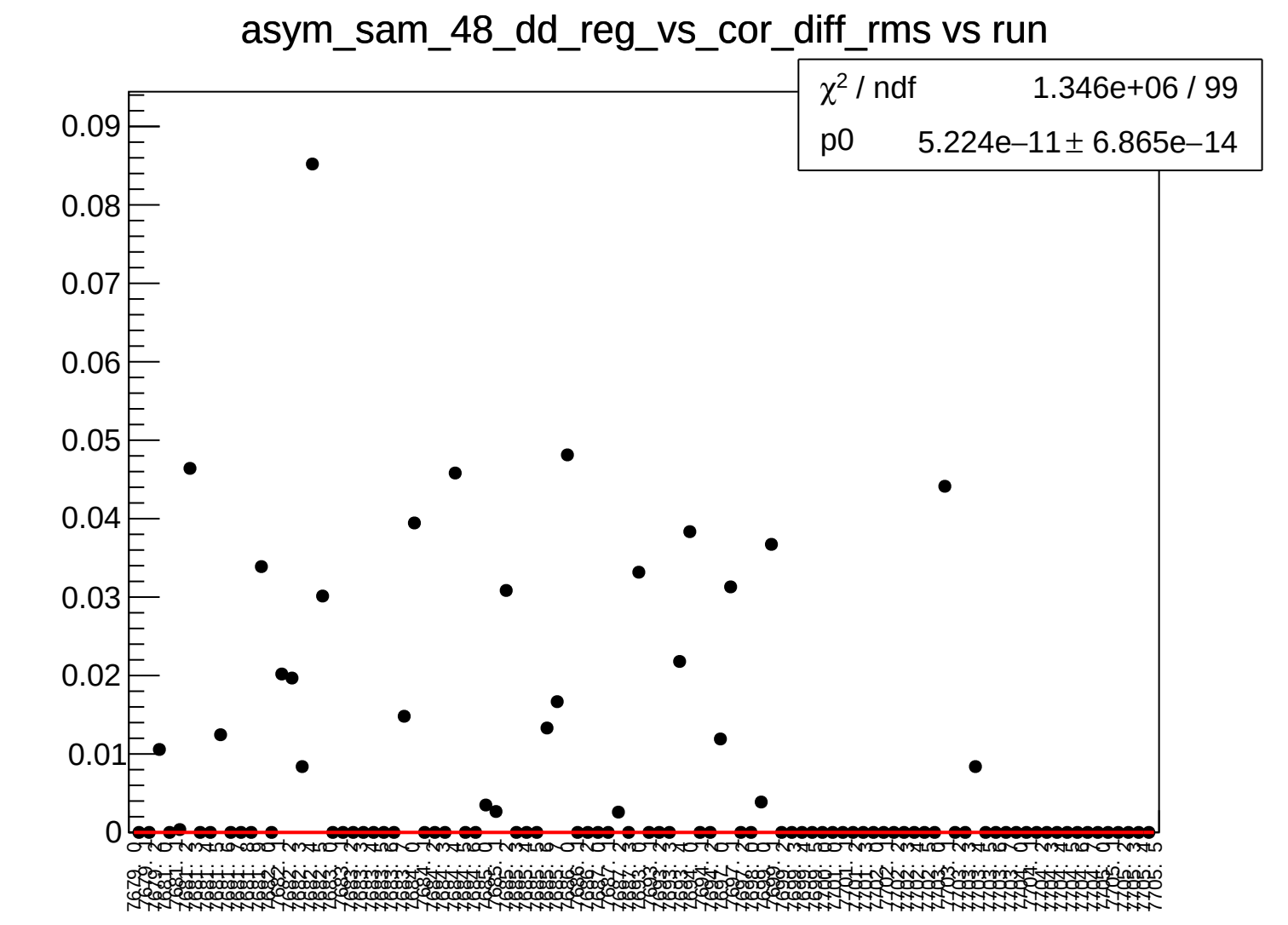

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 5.289e+04 / 99
p0 2313 ± 1.69
3200
3000
2800
2600
2400
2200
2000
1800

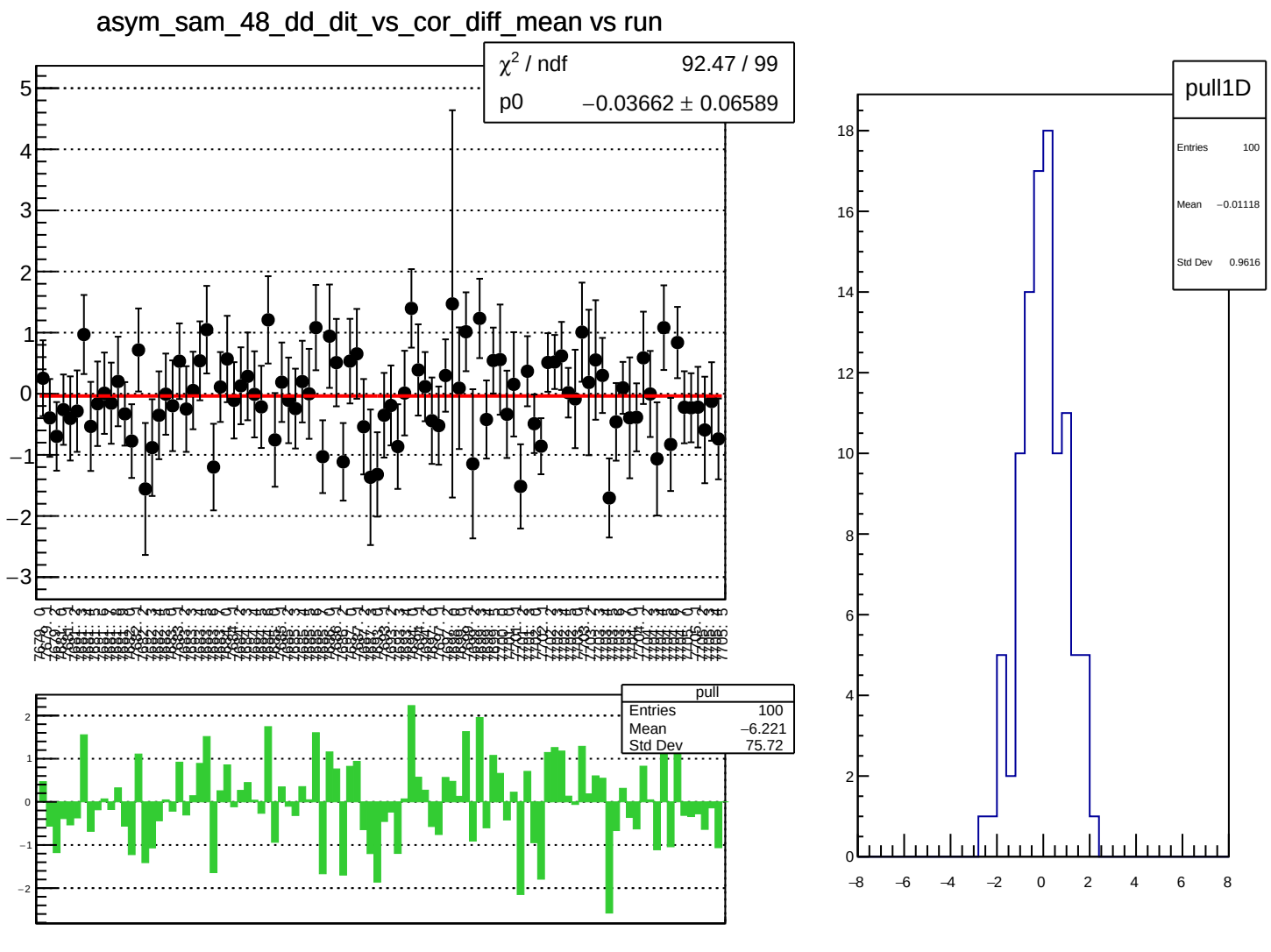

asym_sam_48_dd_mean vs run
×10^3
χ² / ndf 86.74 / 99
p0 −379.6 ± 2395
100
50
0
−50
−100
pull
Entries 100
Mean −181.1
Std Dev 0
2
1
0
−1
−2

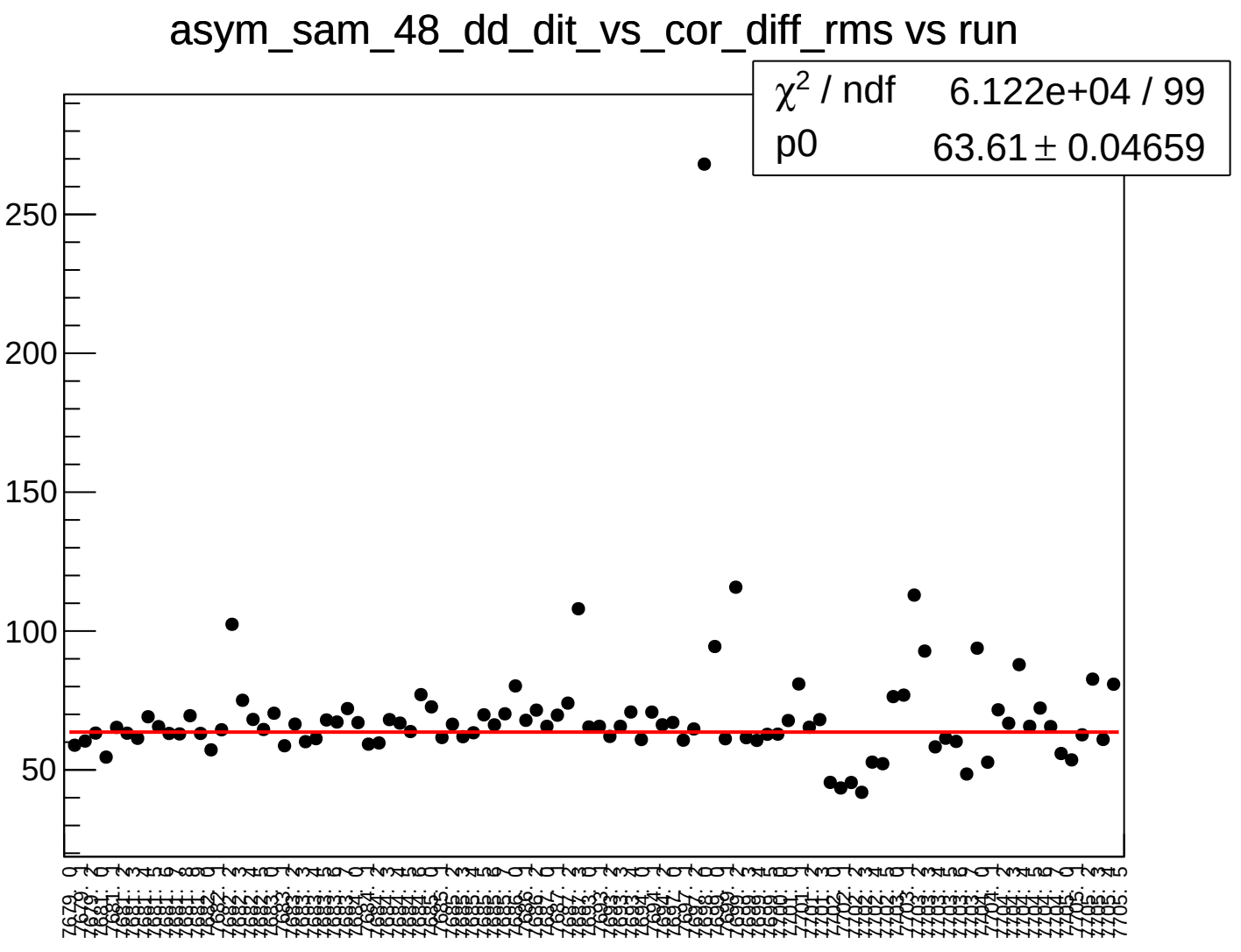

pull1D
Entries 100
Mean −0.02362
Std Dev 0.9311
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

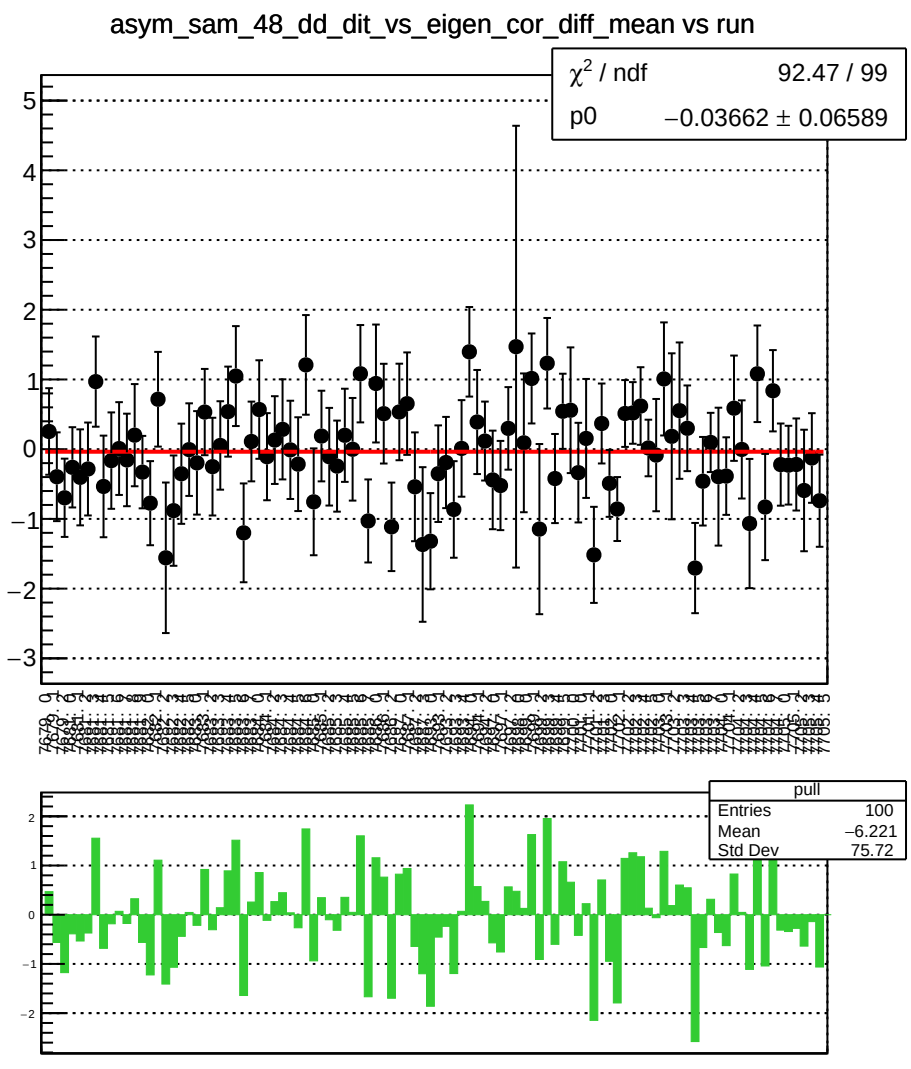

asym_sam_48_dd_rms vs run
χ^2 / ndf 5.551e+04 / 99
p0 2316 ± 1.694
3200
3000
2800
2600
2400
2200
2000
1800

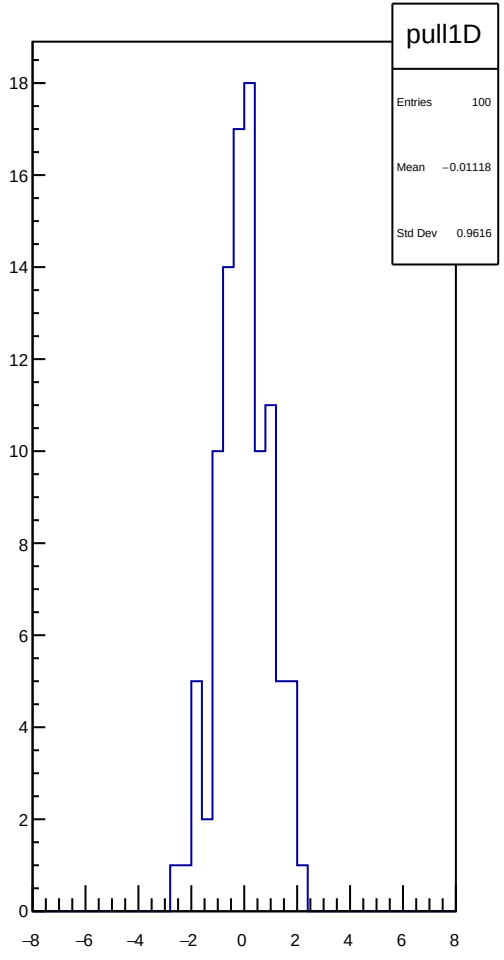

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 92.44 / 99
p0 −1.494e−13 ± 9.709e−14
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 100
Mean 0.7379
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.1108
Std Dev 0.955
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

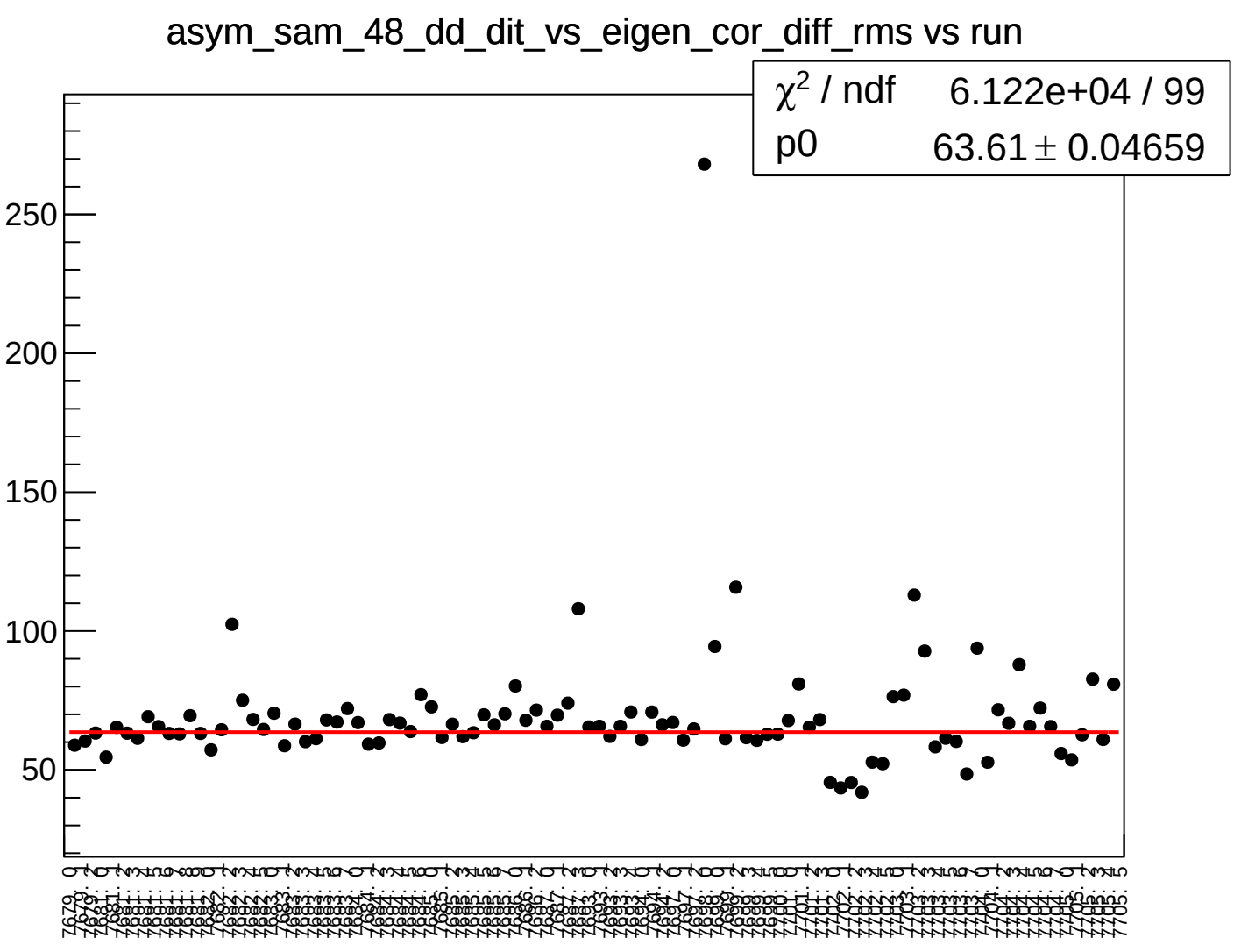

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.346e+06 / 99
p0 5.224e−11 ± 6.865e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

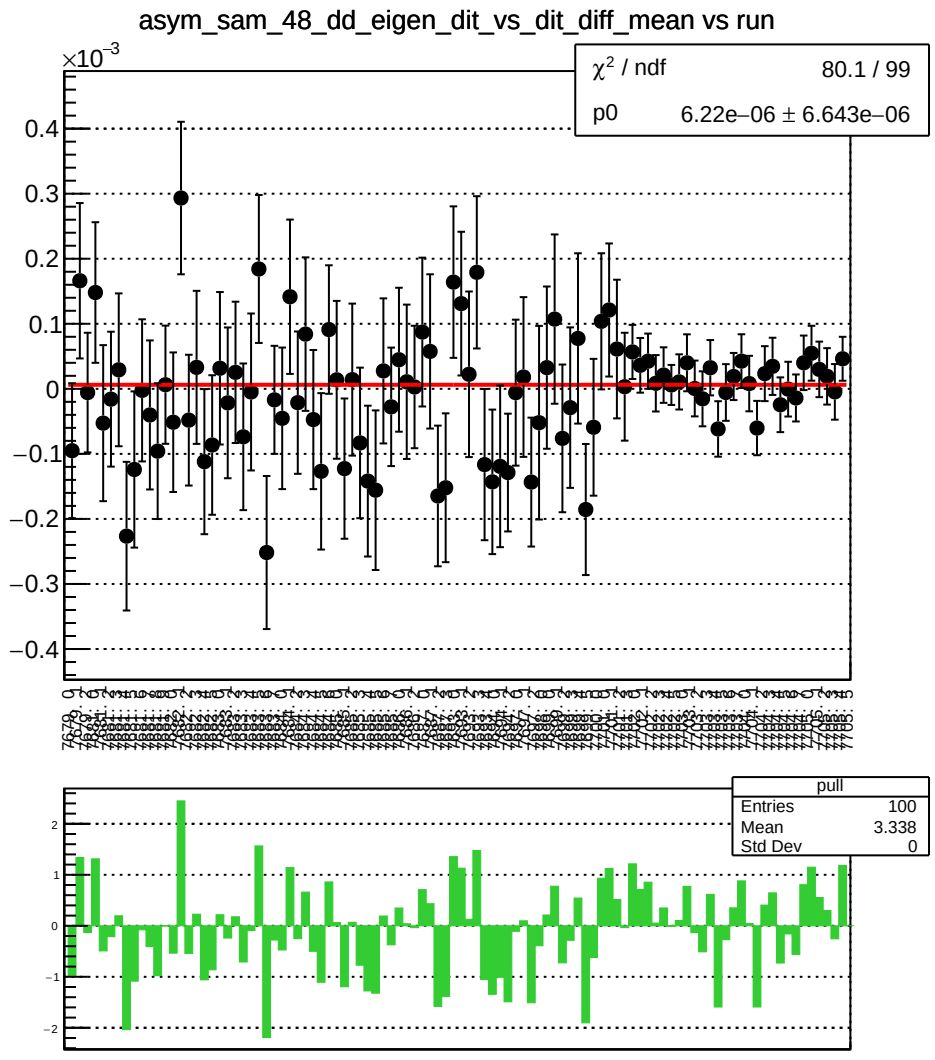

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.47 / 99
p0 −0.03662 ± 0.06589
pull
Entries 100
Mean −6.221
Std Dev 75.72
pull1D
Entries 100
Mean −0.01118
Std Dev 0.9616

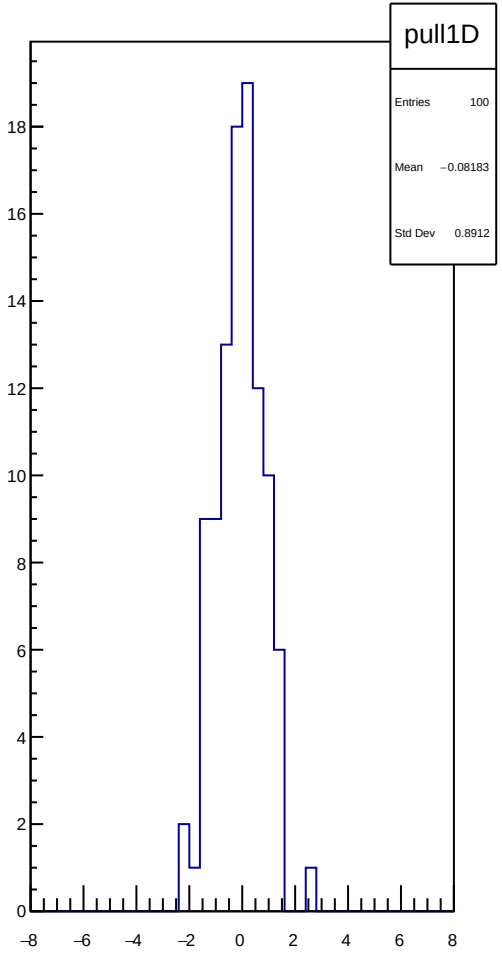

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.122e+04 / 99
p0 63.61 ± 0.04659
250
200
150
100
50

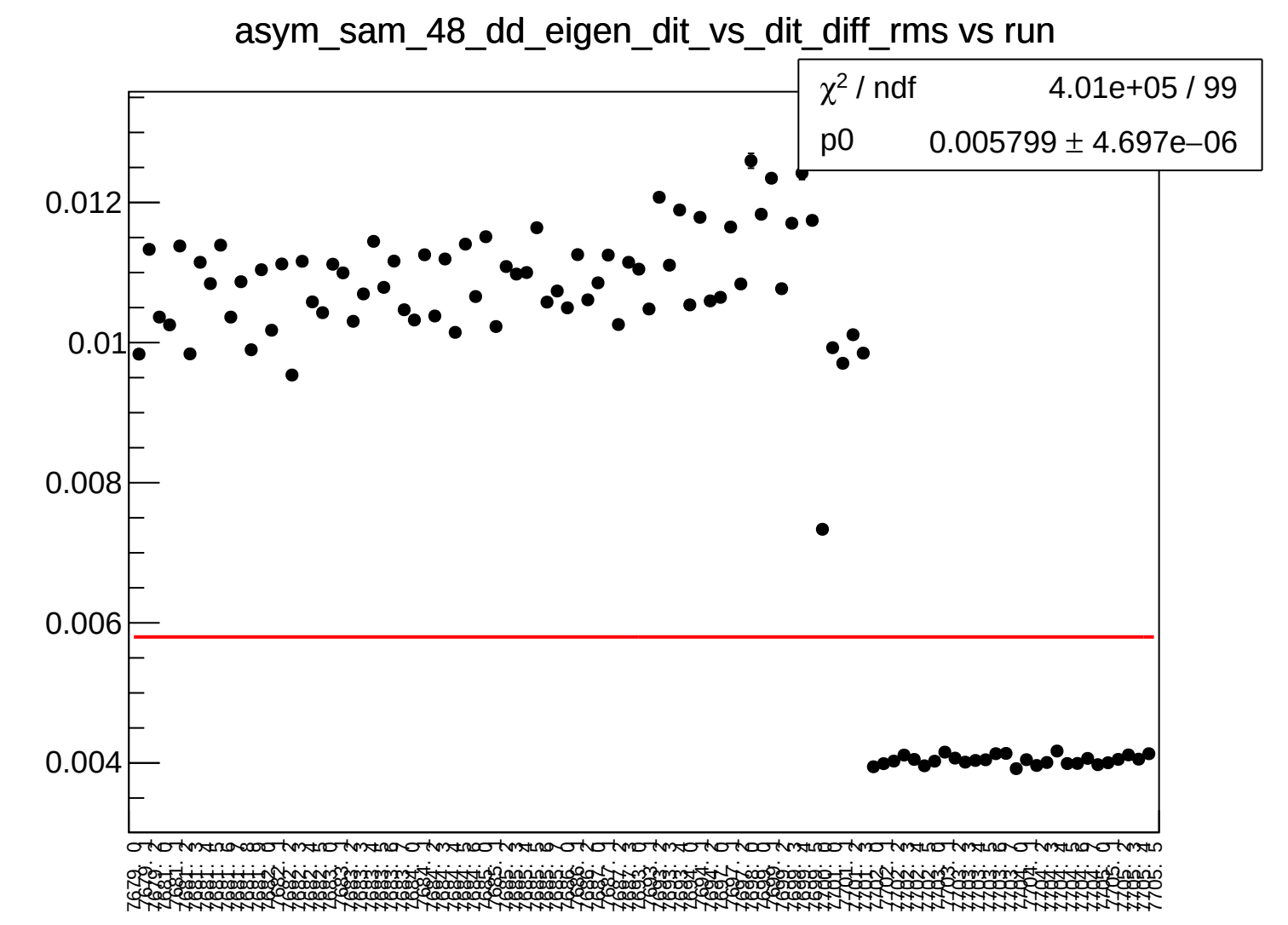

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.47 / 99
p0 −0.03662 ± 0.06589
pull
Entries 100
Mean −6.221
Std Dev 75.72

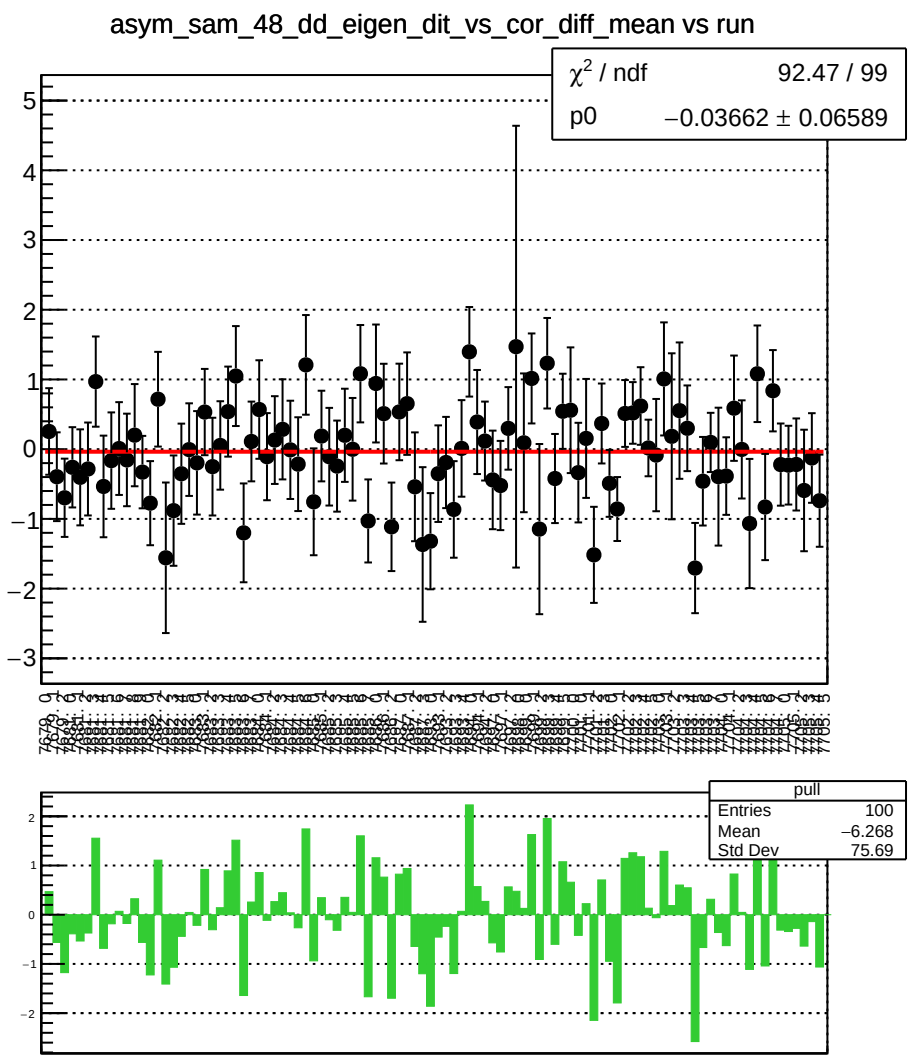

pull1D
Entries 100
Mean −0.01118
Std Dev 0.9616

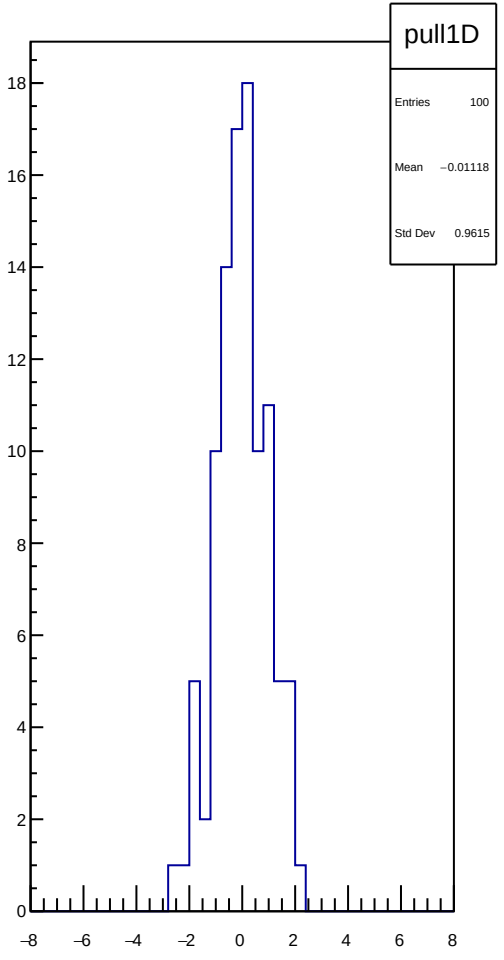

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 6.122e+04 / 99
p0 63.61 ± 0.04659
250
200
150
100
50

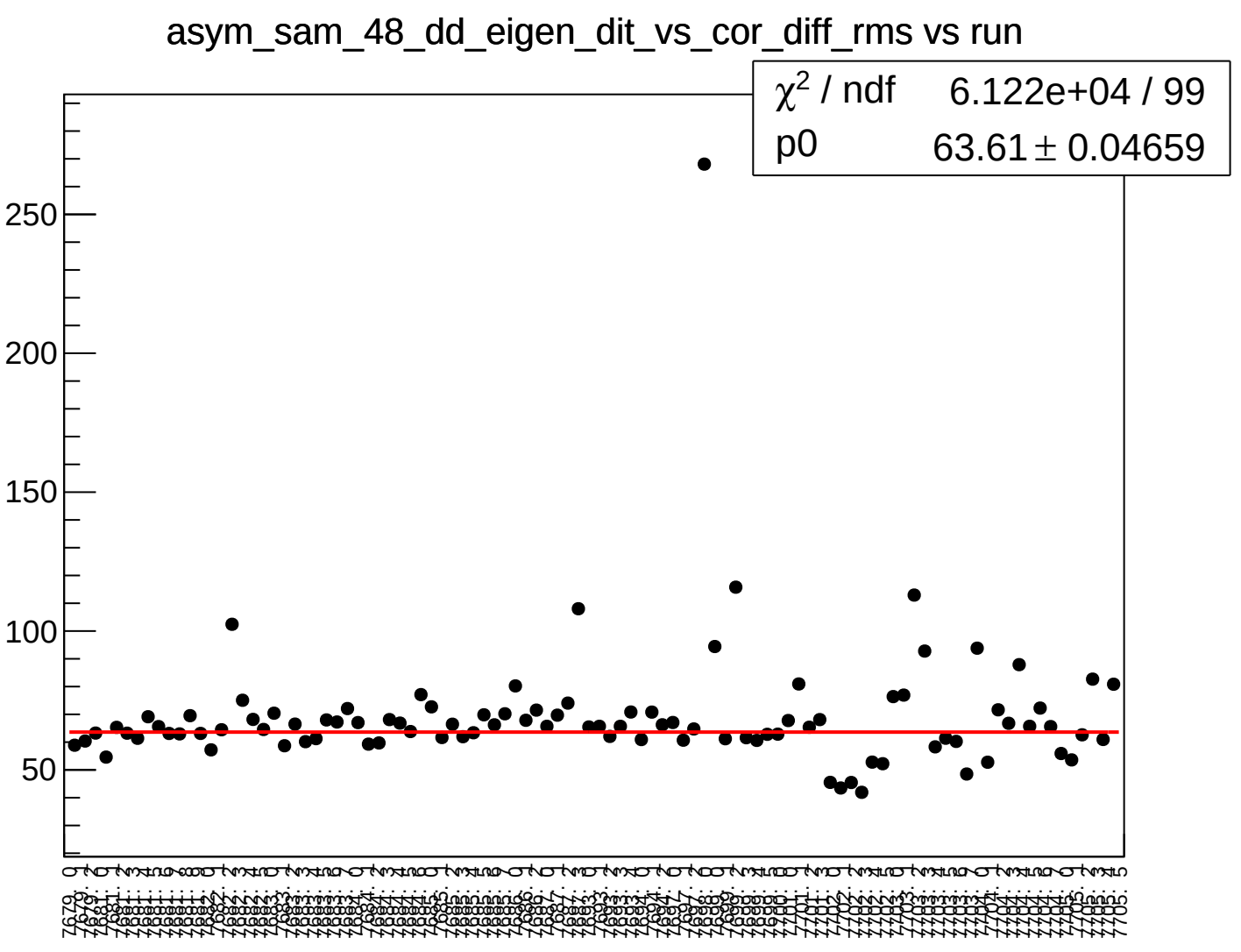

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.1 / 99
p0 6.22e−06 ± 6.643e−06
pull
Entries 100
Mean 3.338
Std Dev 0

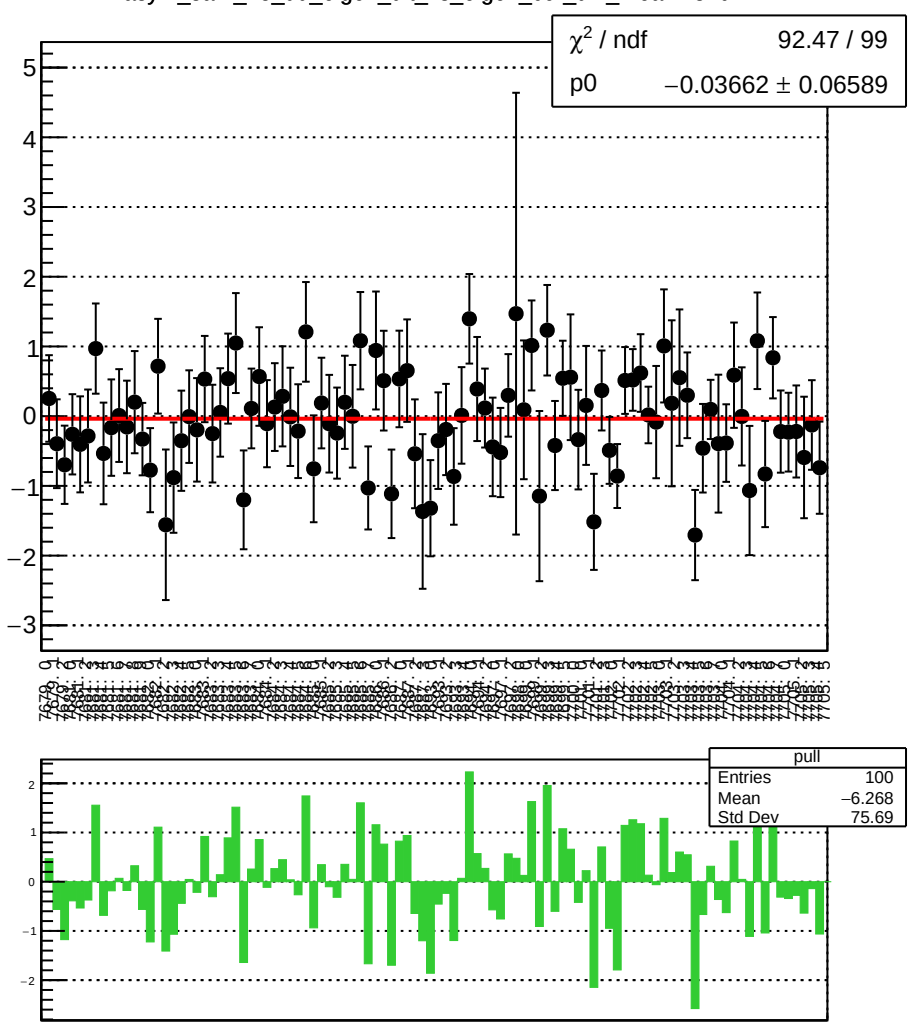

pull1D
Entries 100
Mean −0.08183
Std Dev 0.8912

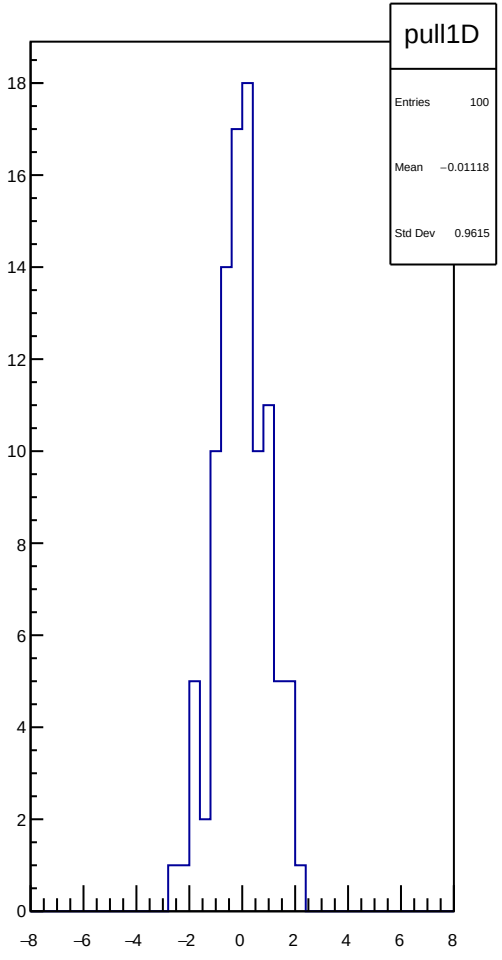

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.01e+05 / 99
p0 0.005799 ± 4.697e−06
0.012
0.01
0.008
0.006
0.004

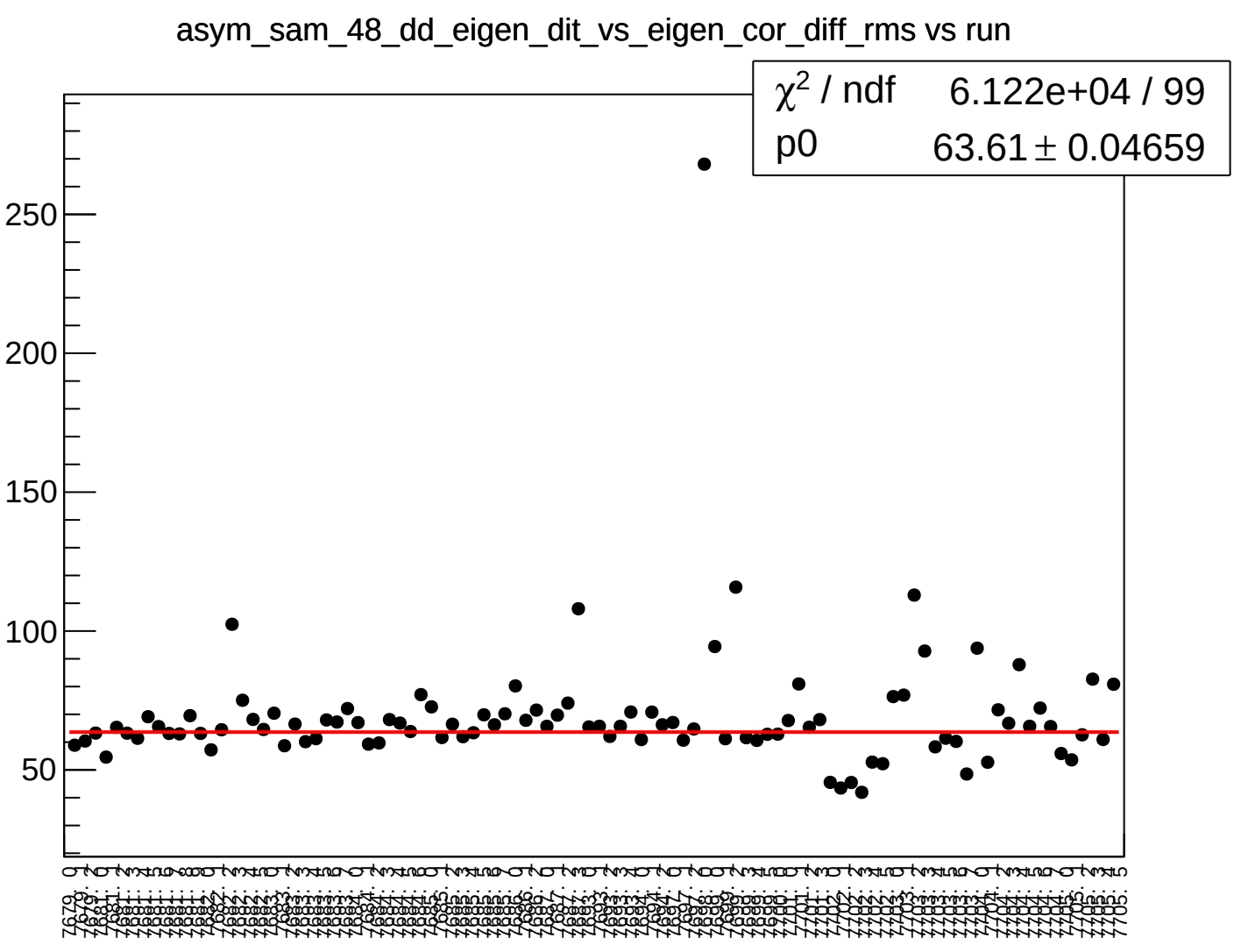

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.47 / 99
p0 −0.03662 ± 0.06589
pull
Entries 100
Mean −6.268
Std Dev 75.69

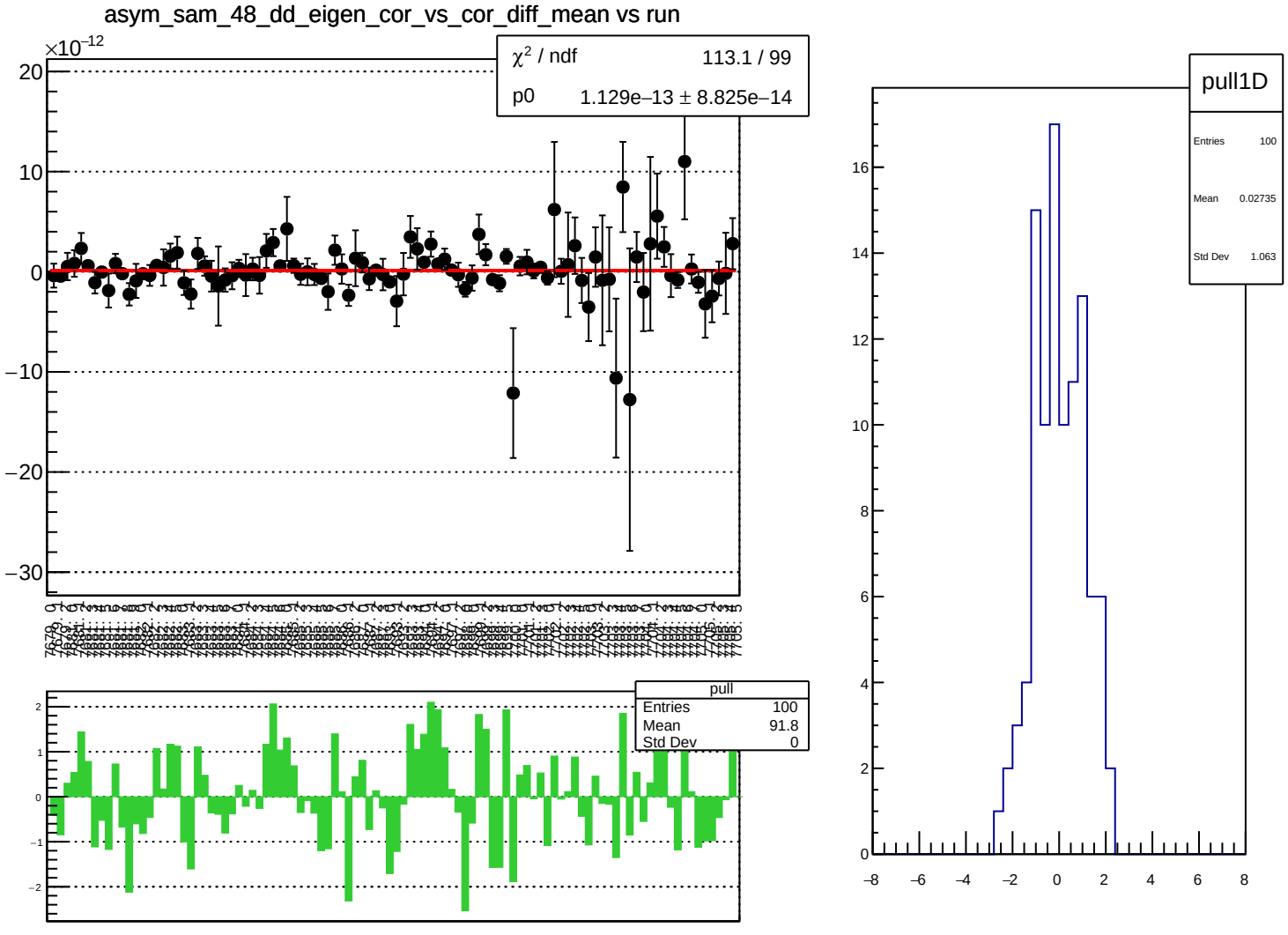

pull1D
Entries 100
Mean −0.01118
Std Dev 0.9615

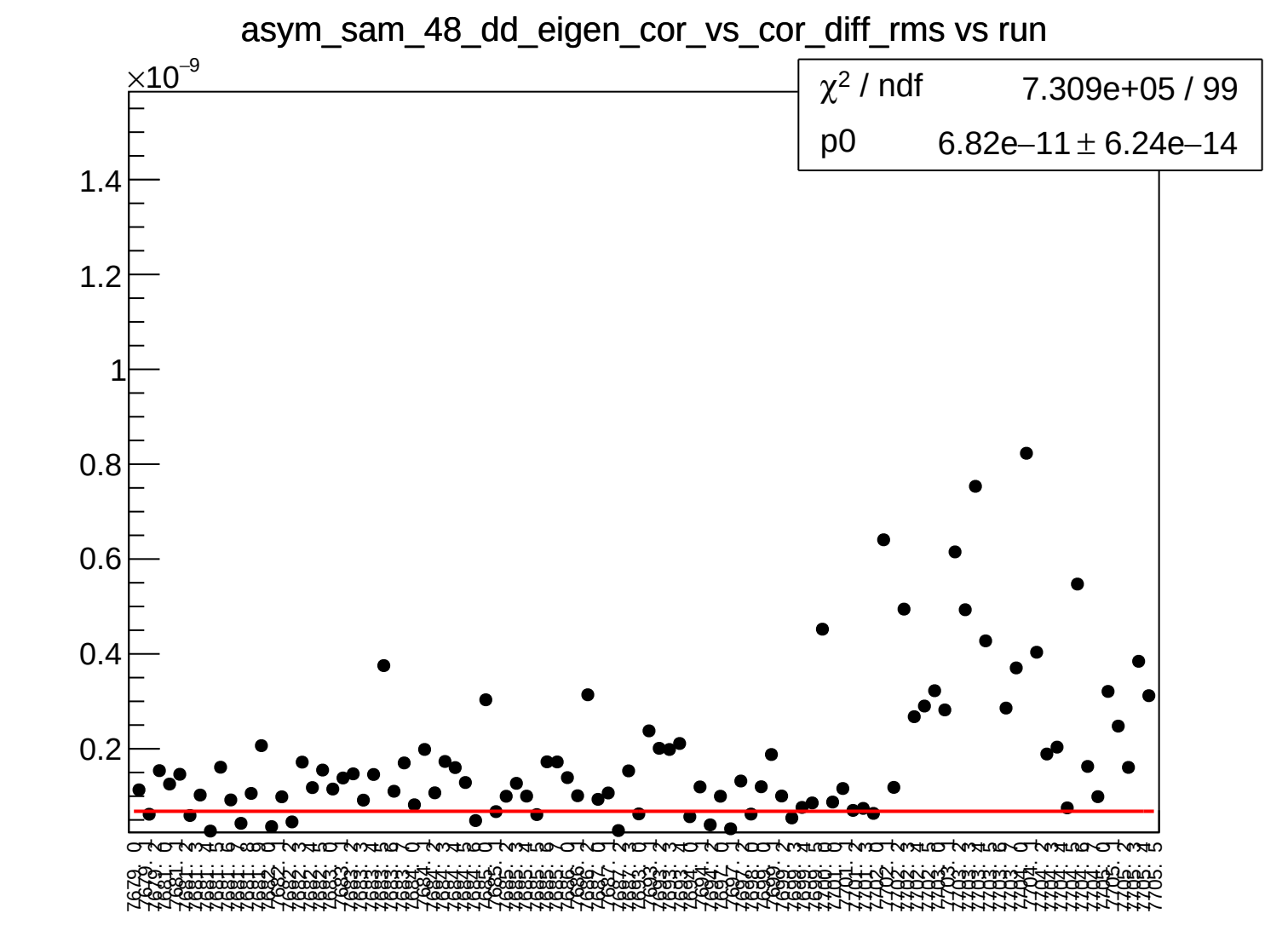

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.122e+04 / 99
p0 63.61 ± 0.04659
250
200
150
100
50

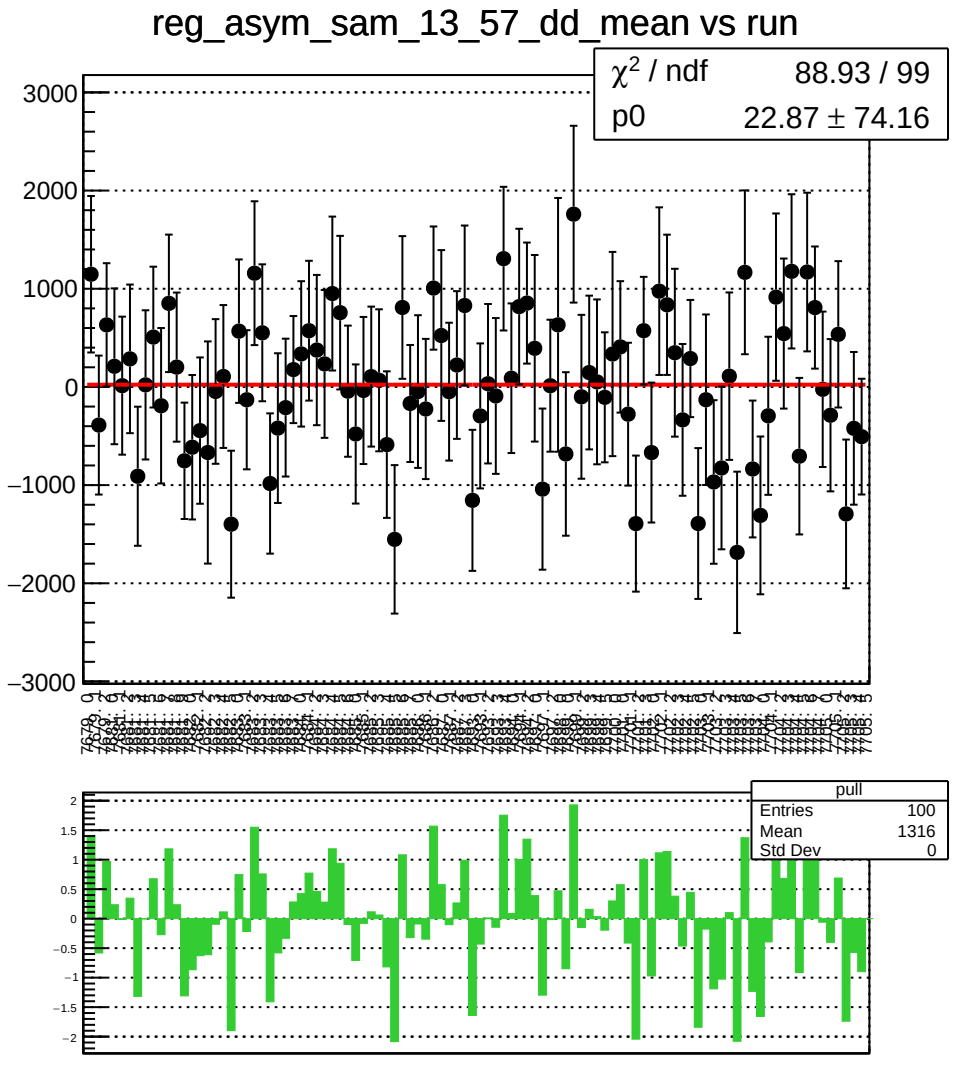

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.47 / 99
p0 −0.03662 ± 0.06589
pull
Entries 100
Mean −6.268
Std Dev 75.69

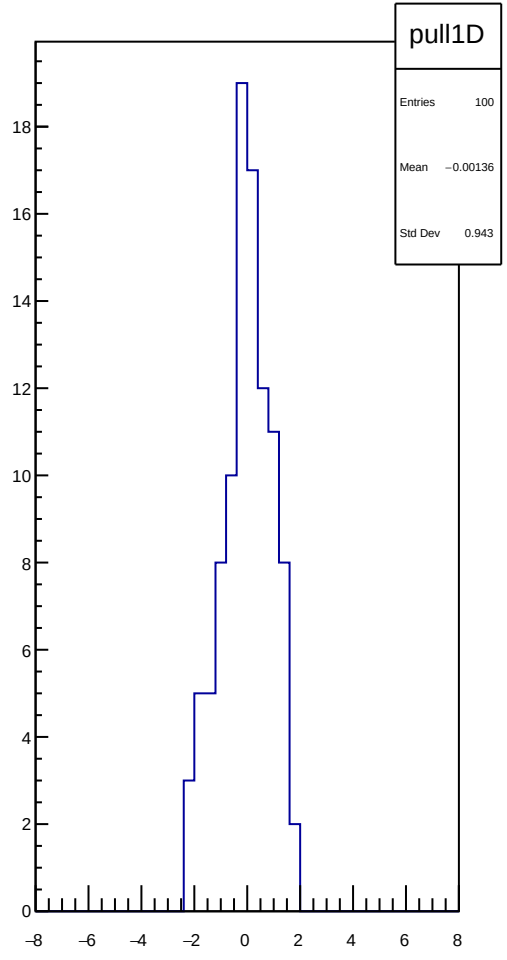

pull1D
Entries 100
Mean −0.01118
Std Dev 0.9615

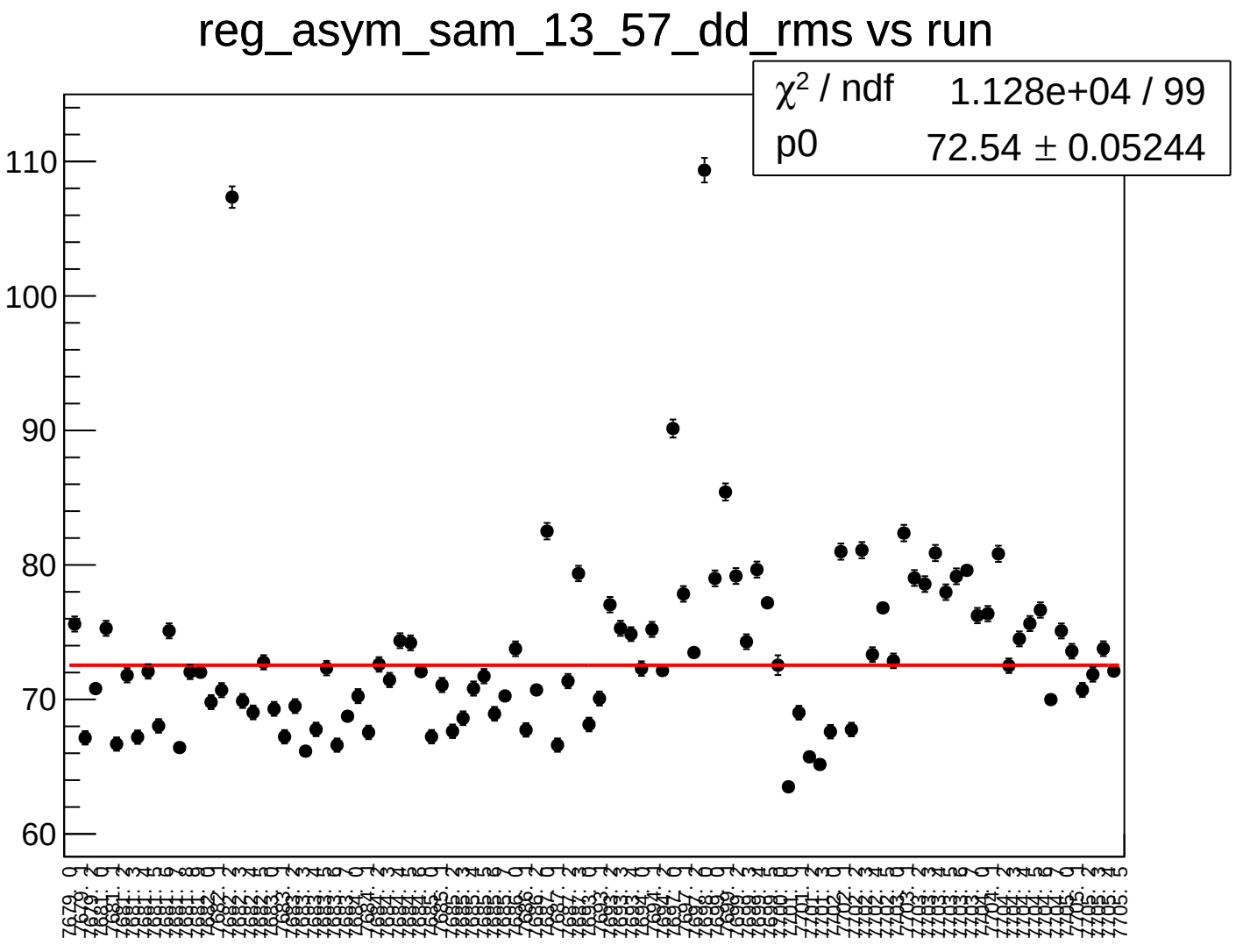

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.122e+04 / 99
p0 63.61 ± 0.04659
250
200
150
100
50

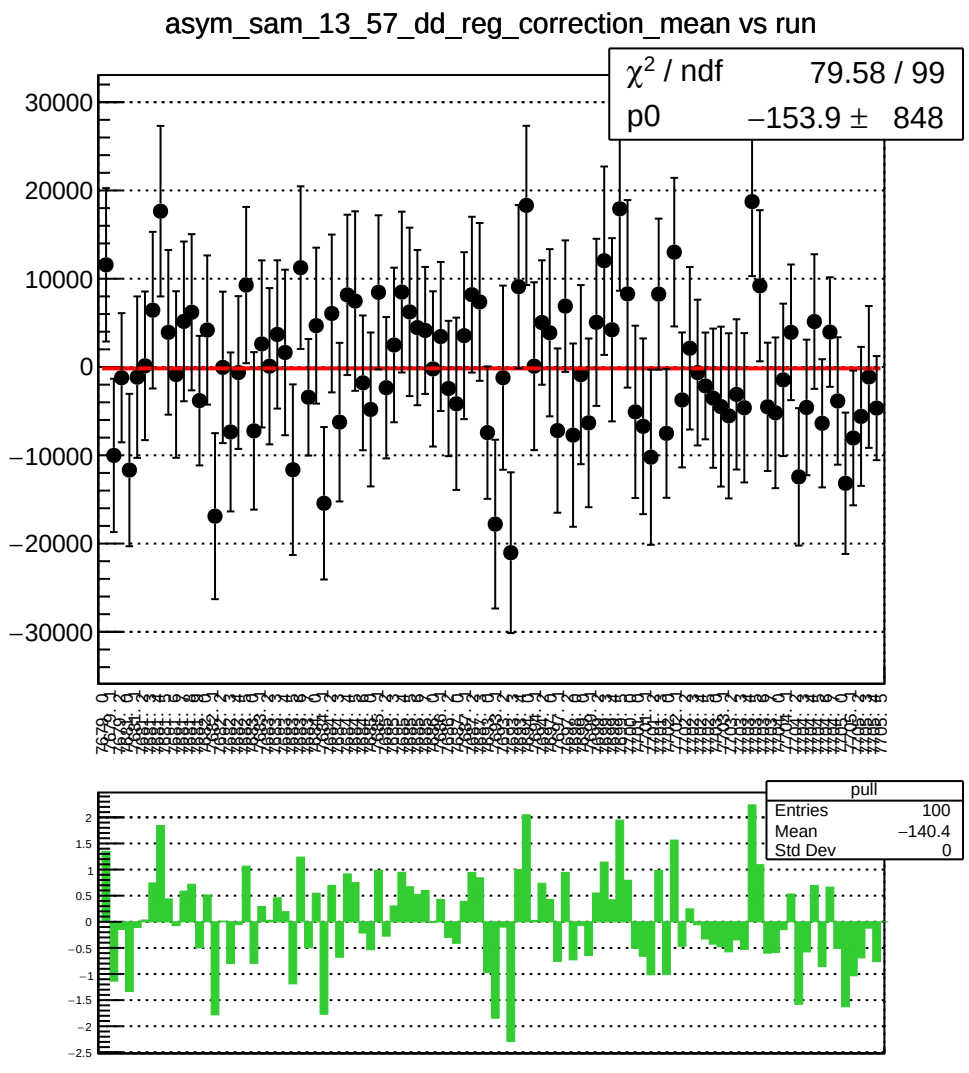

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 113.1 / 99
p0 1.129e−13 ± 8.825e−14
20
10
0
−10
−20
−30
pull
Entries 100
Mean 91.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.02735
Std Dev 1.063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

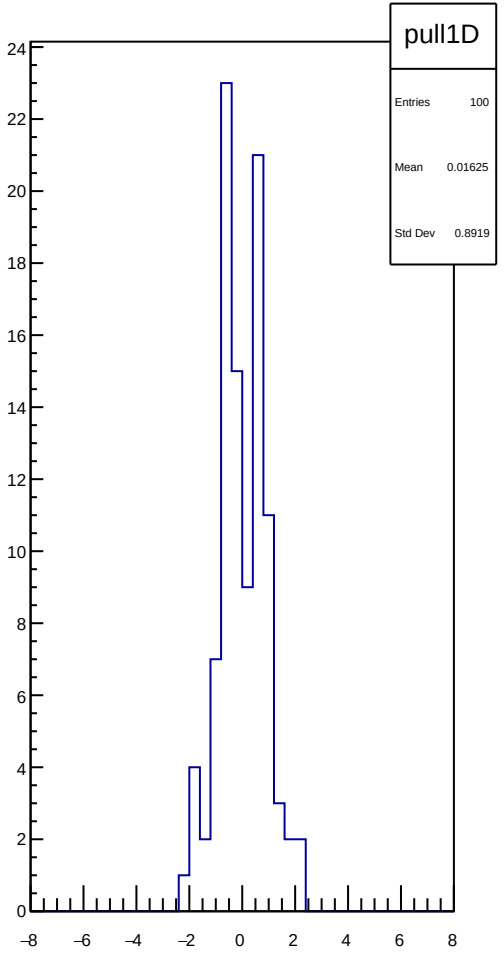

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.309e+05 / 99
p0 6.82e−11 ± 6.24e−14
1.4
1.2
1
0.8
0.6
0.4
0.2

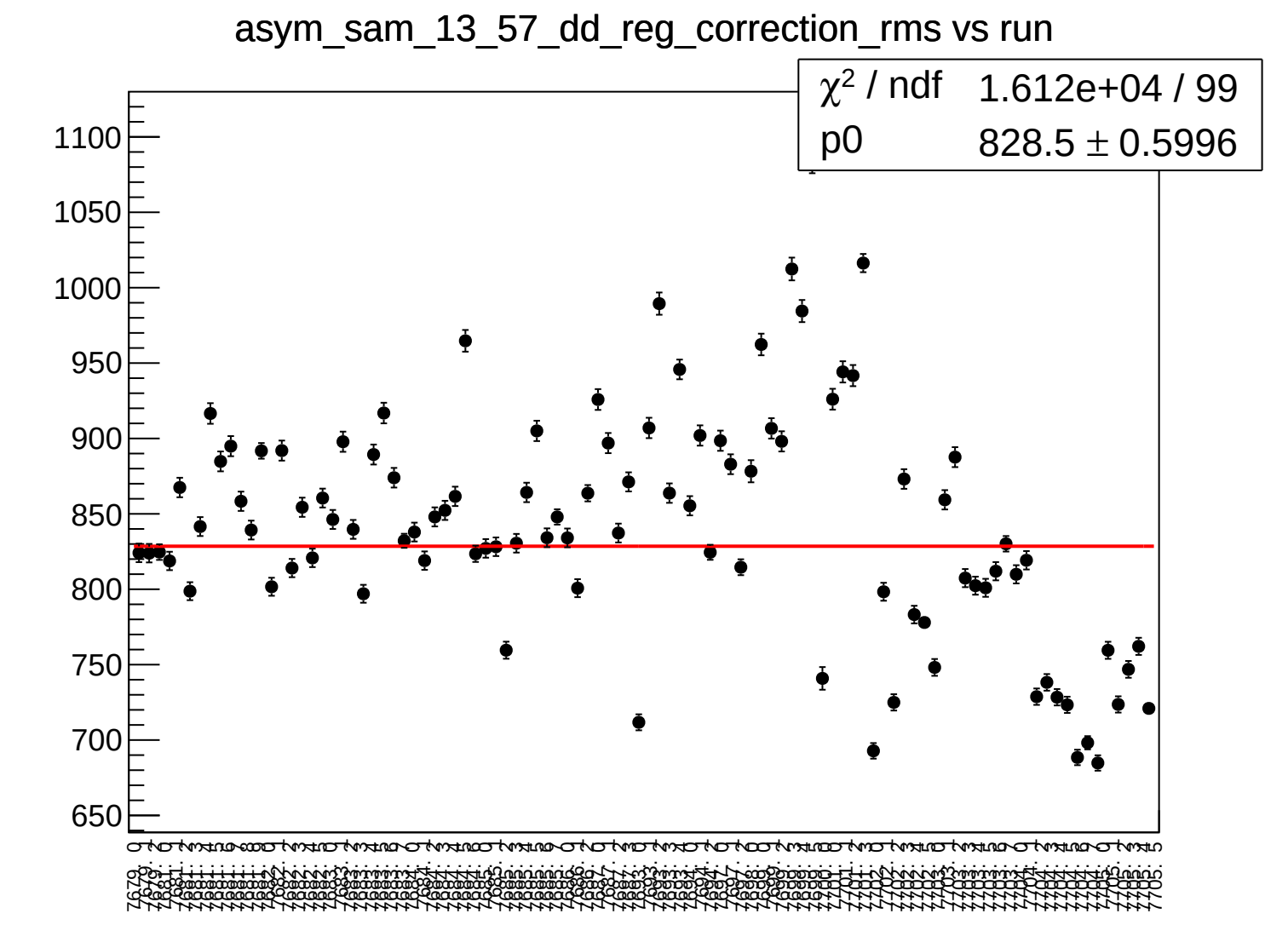

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 88.93 / 99
p0 22.87 ± 74.16
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 100
Mean 1316
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

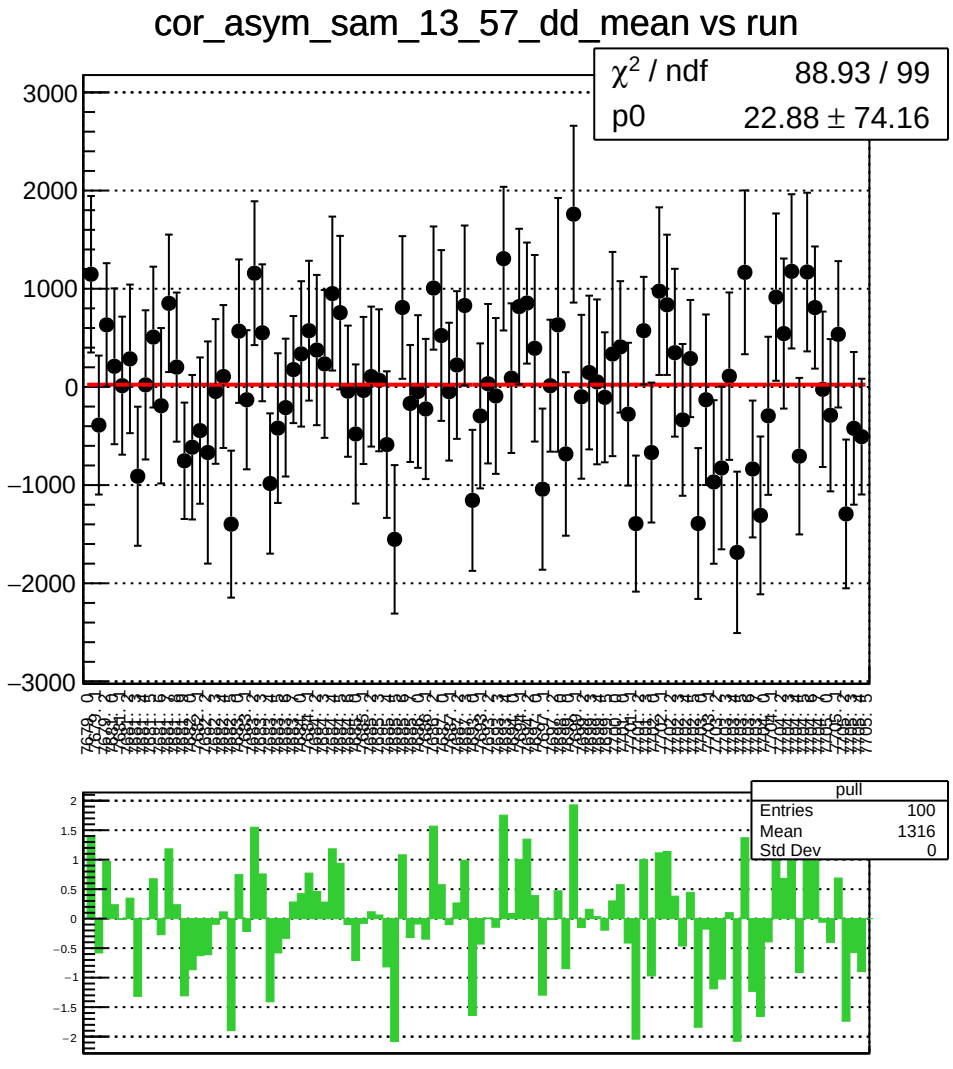

pull1D
Entries 100
Mean −0.00136
Std Dev 0.943
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

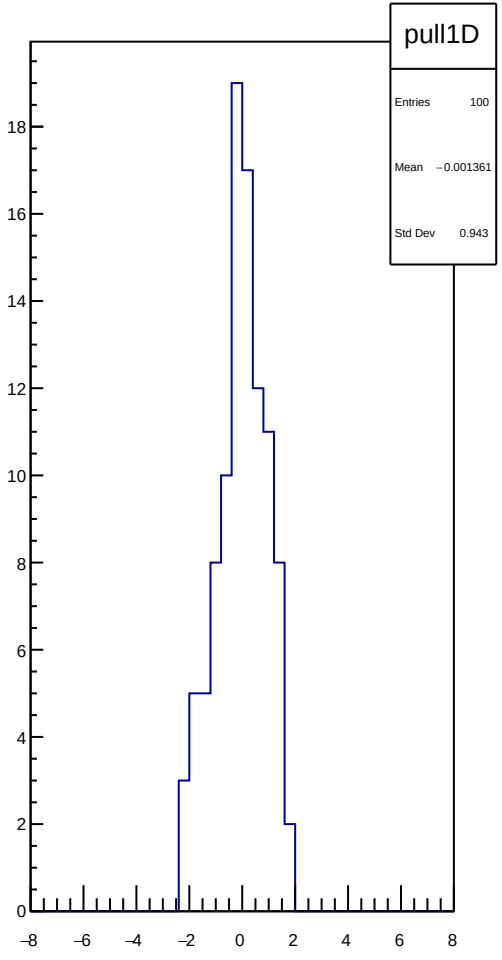

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.128e+04 / 99
p0 72.54 ± 0.05244
110
100
90
80
70
60

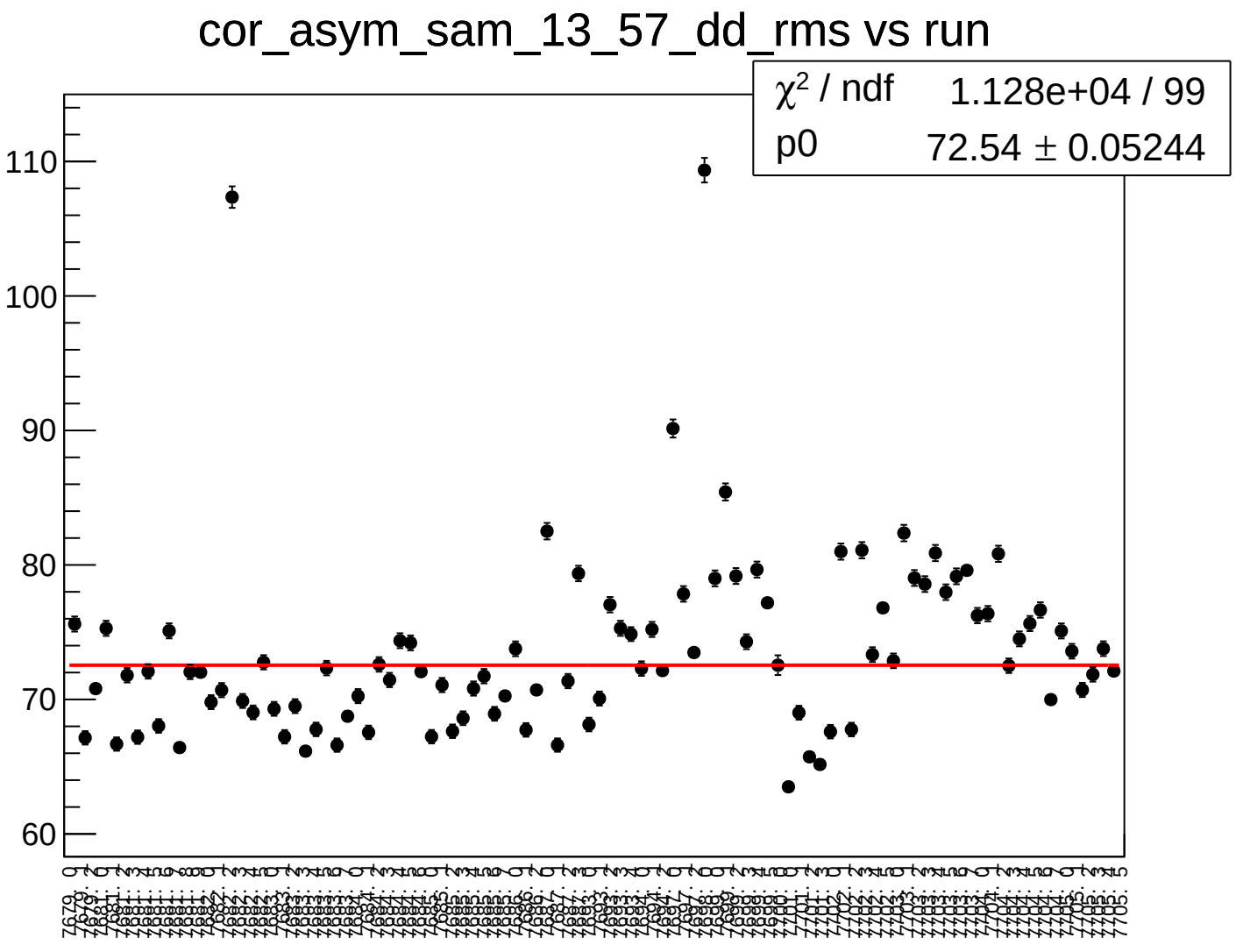

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 79.58 / 99
p0 −153.9 ± 848
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 100
Mean −140.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

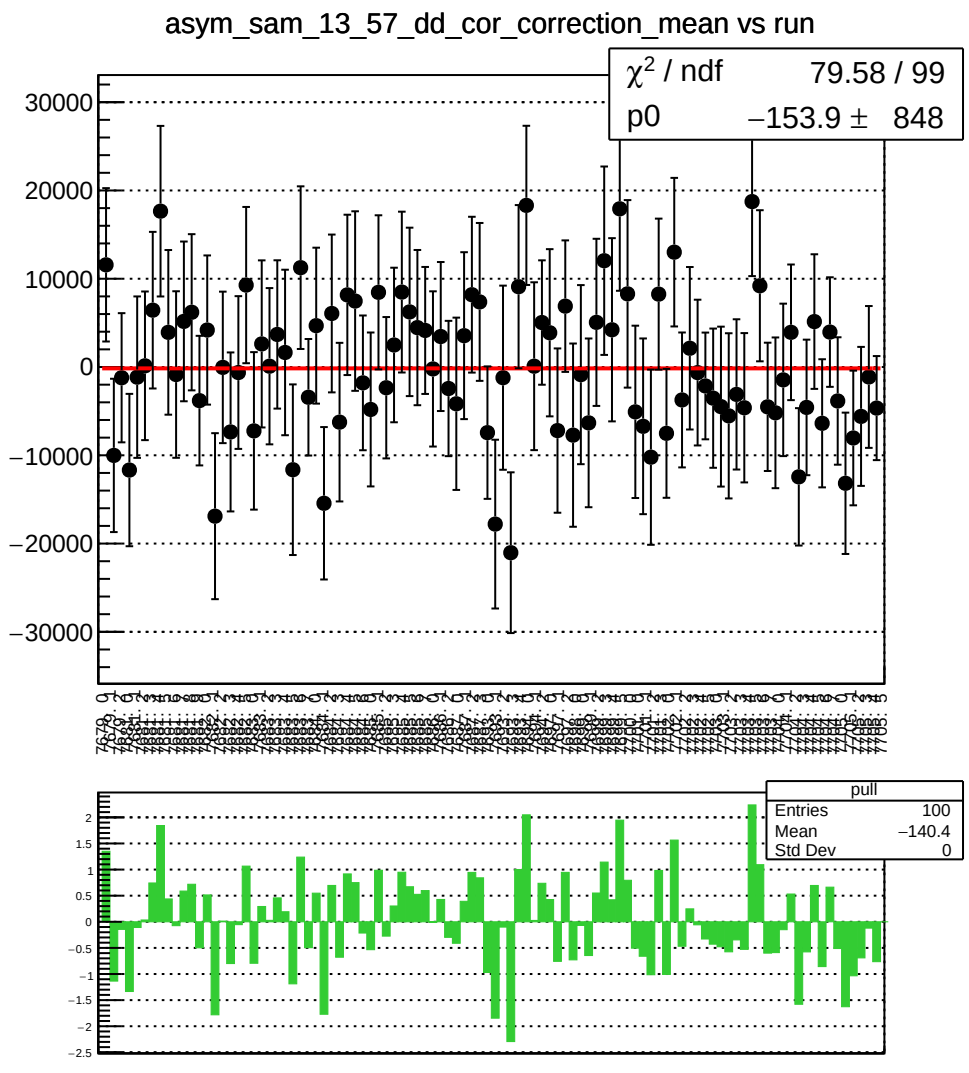

pull1D
Entries 100
Mean 0.01625
Std Dev 0.8919
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

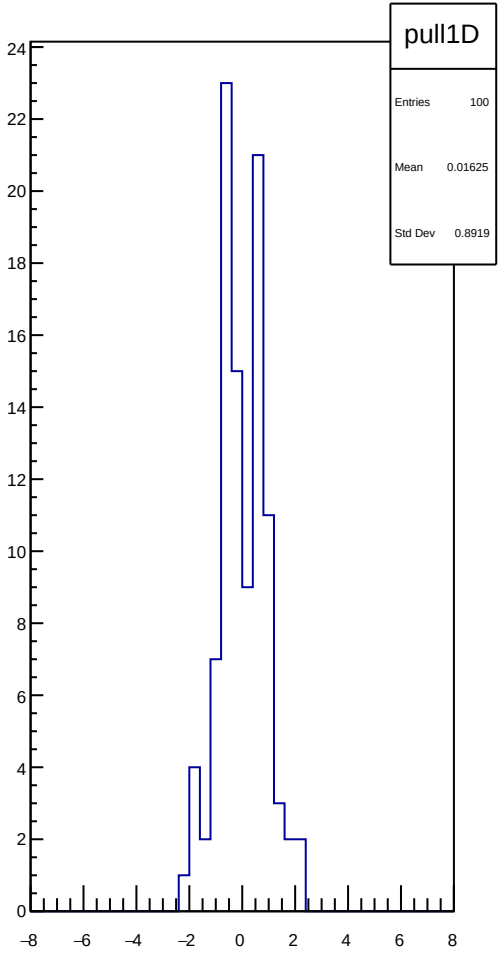

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 1.612e+04 / 99
p0 828.5 ± 0.5996
1100
1050
1000
950
900
850
800
750
700
650

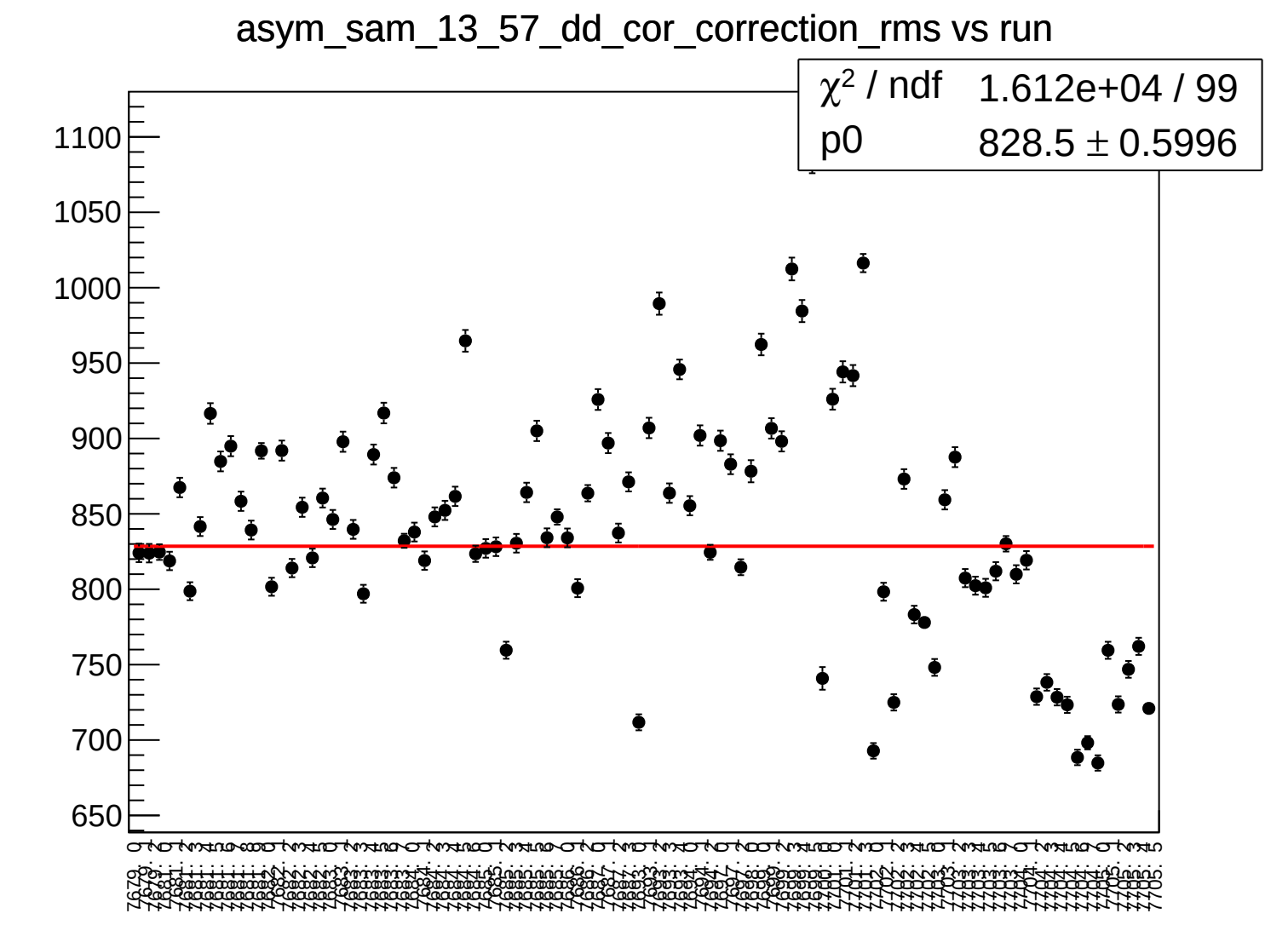

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 88.93 / 99
p0 22.88 ± 74.16
pull
Entries 100
Mean 1316
Std Dev 0

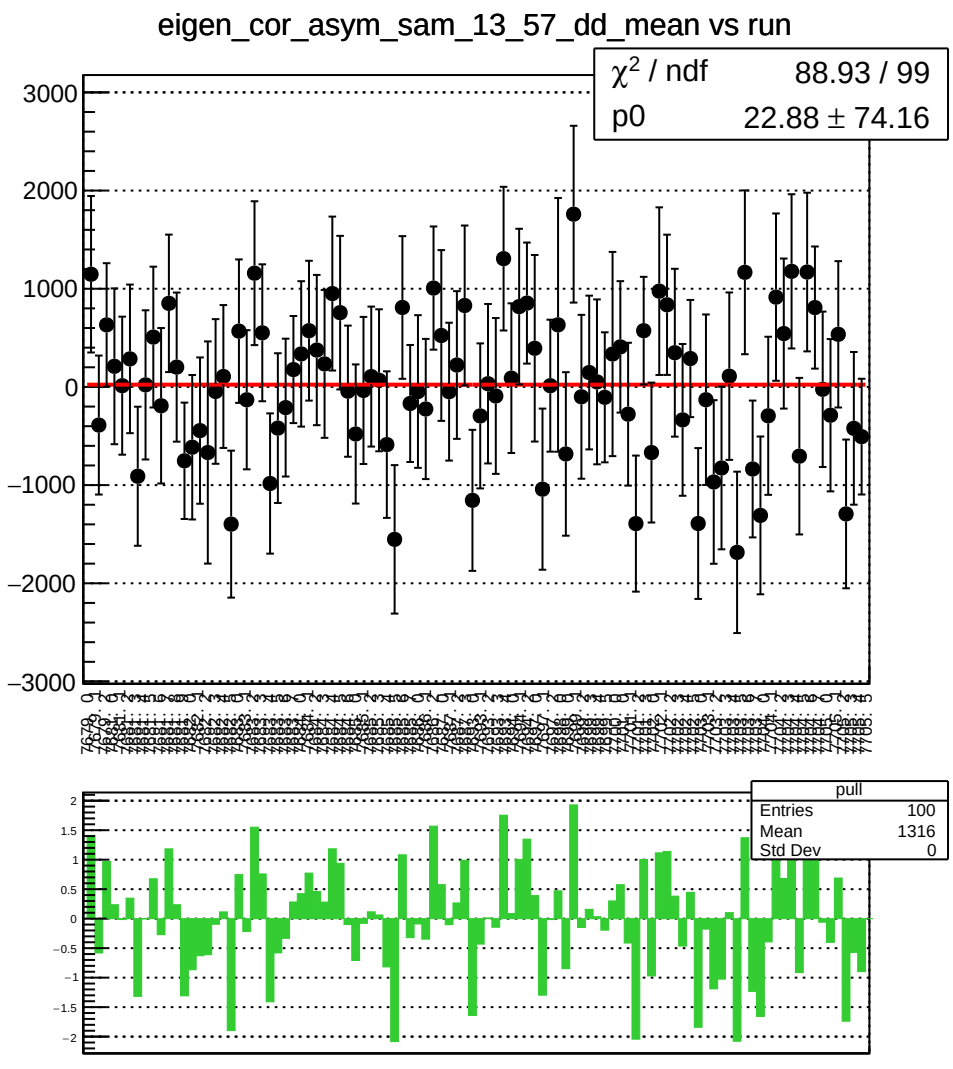

pull1D
Entries 100
Mean −0.001361
Std Dev 0.943

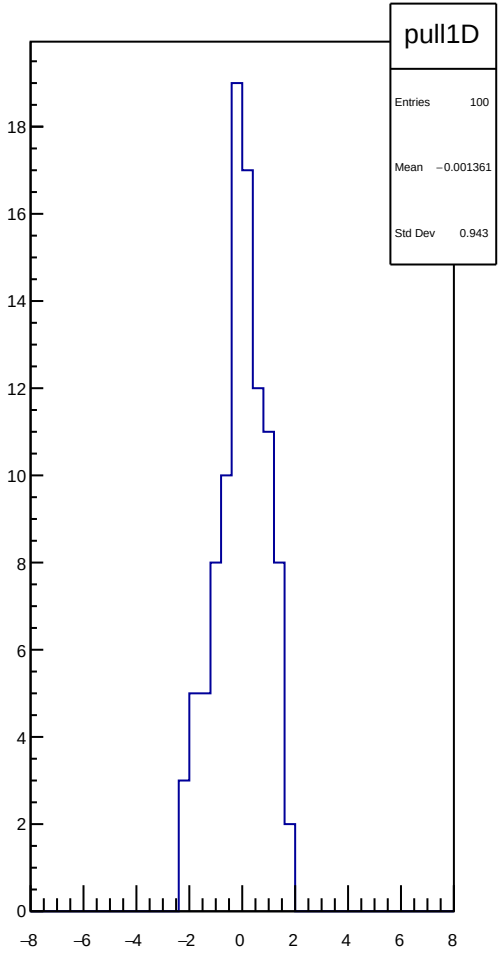

cor_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 1.128e+04 / 99
p0 72.54 ± 0.05244
110
100
90
80
70
60

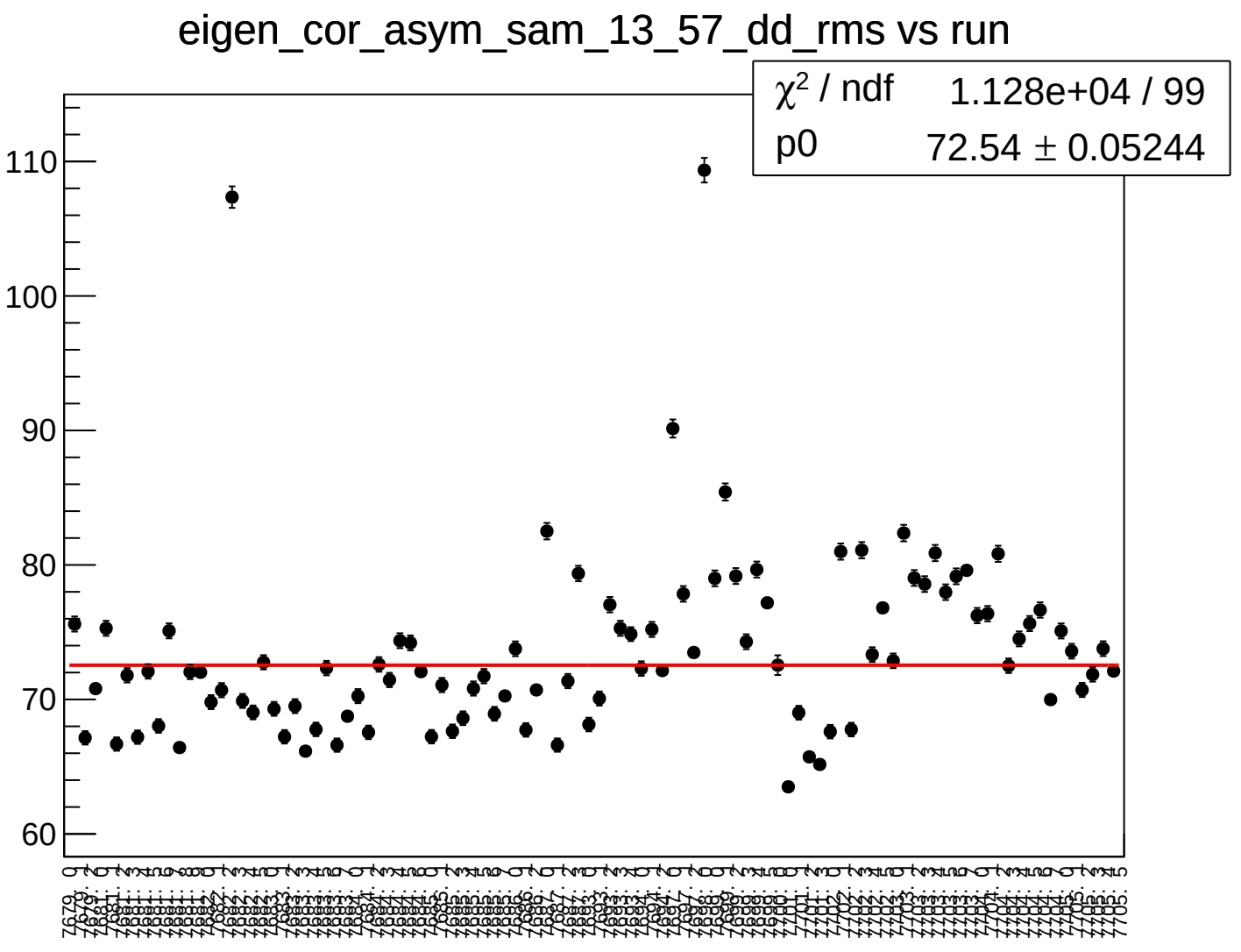

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 79.58 / 99
p0 −153.9 ± 848
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 100
Mean −140.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

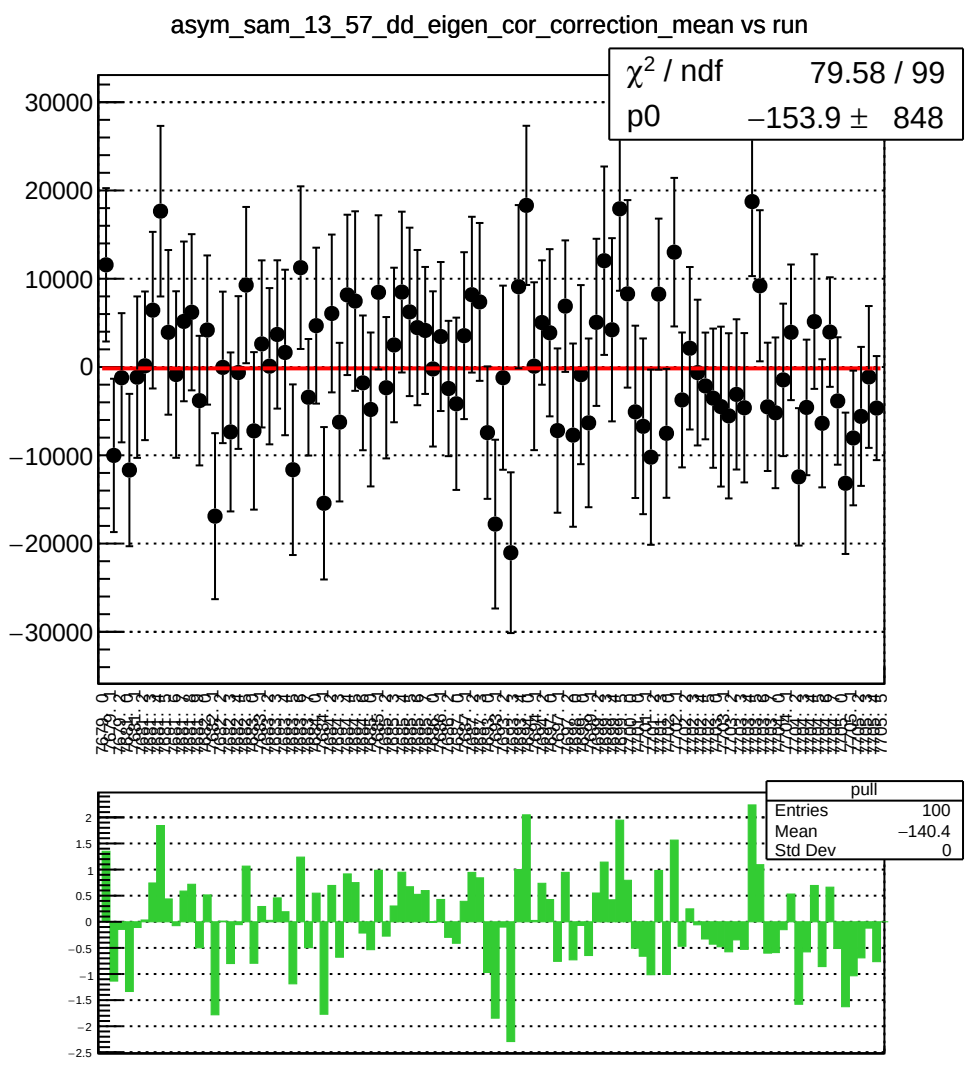

pull1D
Entries 100
Mean 0.01625
Std Dev 0.8919
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

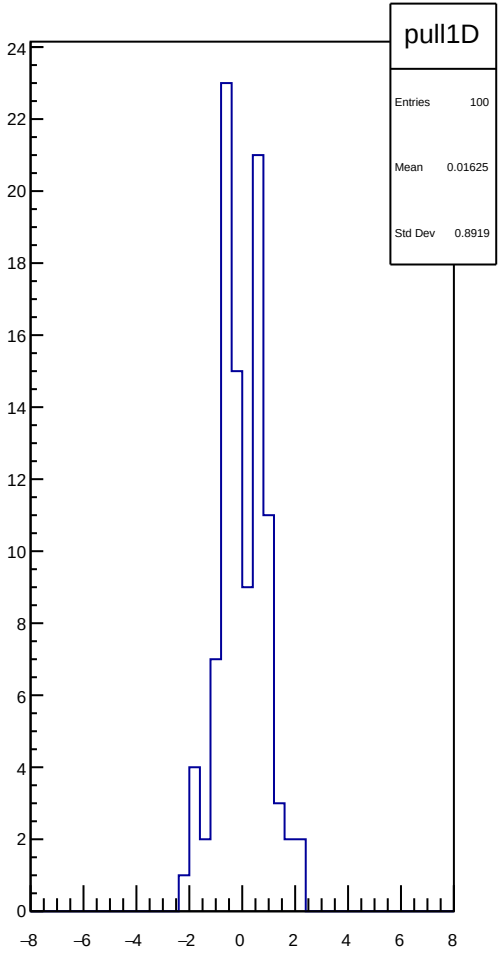

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 1.612e+04 / 99
p0 828.5 ± 0.5996
1100
1050
1000
950
900
850
800
750
700
650


eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 88.93 / 99
p0 22.88 ± 74.16
pull
Entries 100
Mean 1316
Std Dev 0


pull1D
Entries 100
Mean −0.001361
Std Dev 0.943


eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.128e+04 / 99
p0 72.54 ± 0.05244
110
100
90
80
70
60


asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 79.58 / 99
p0 −153.9 ± 848
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 100
Mean −140.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 100
Mean 0.01625
Std Dev 0.8919
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
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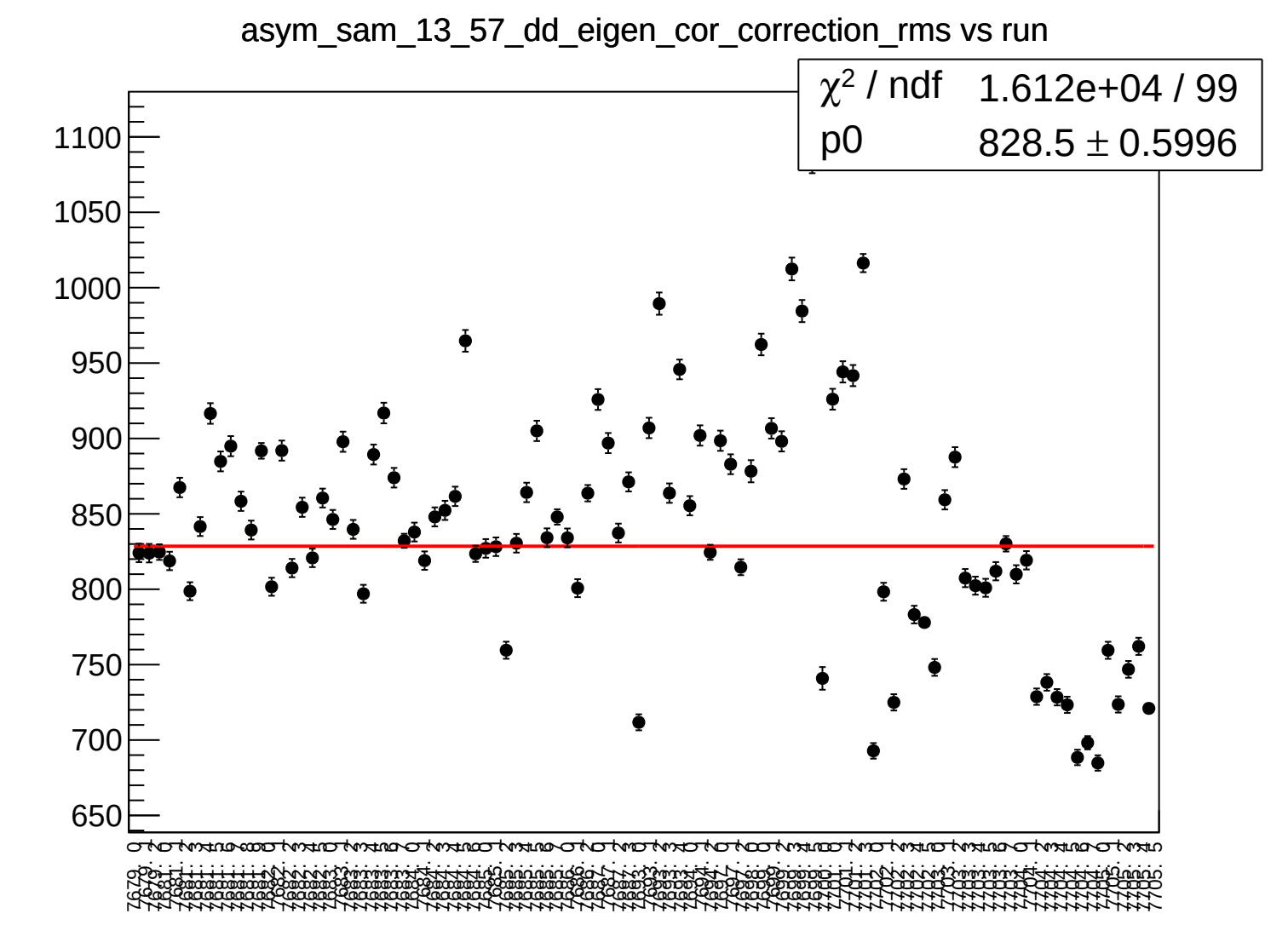
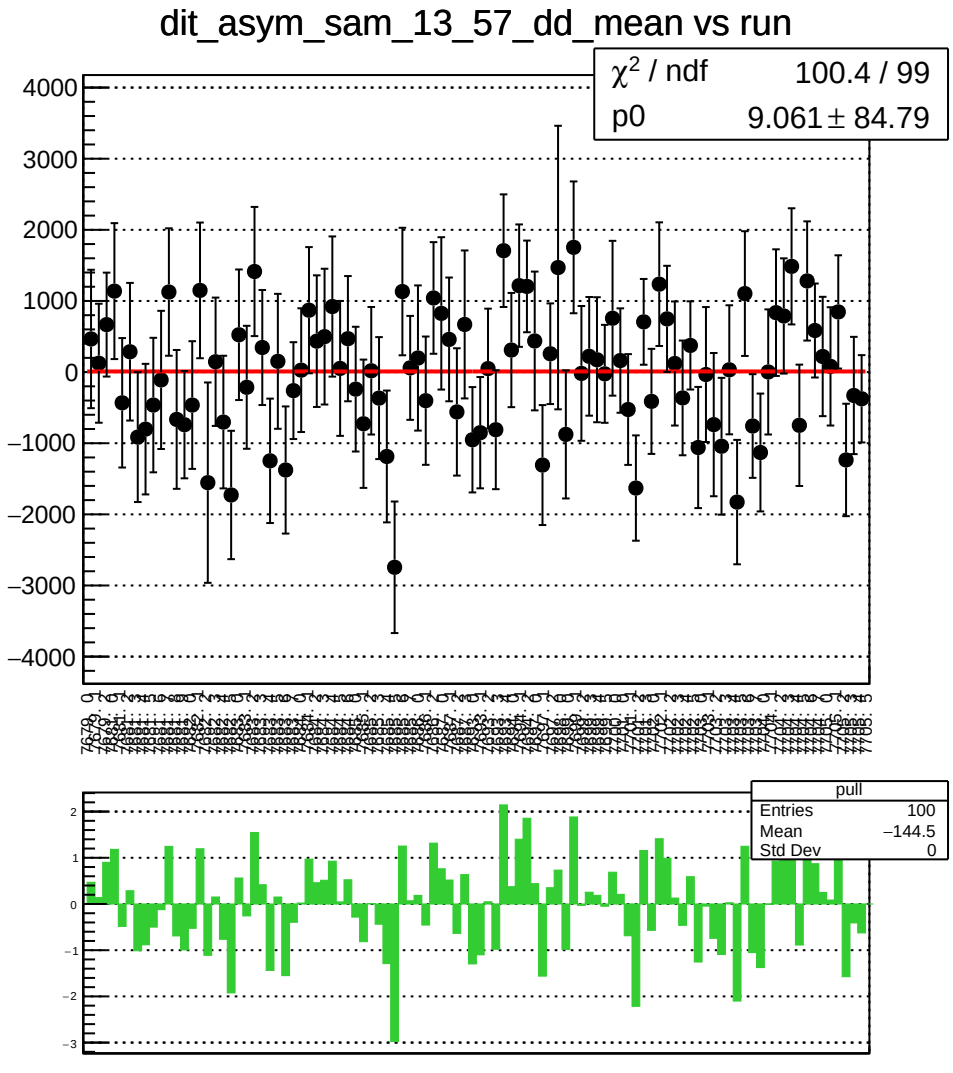
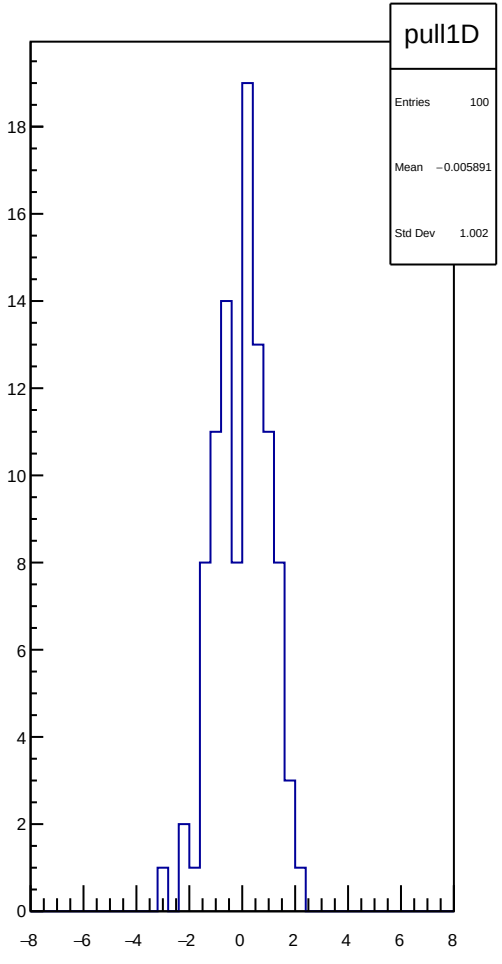
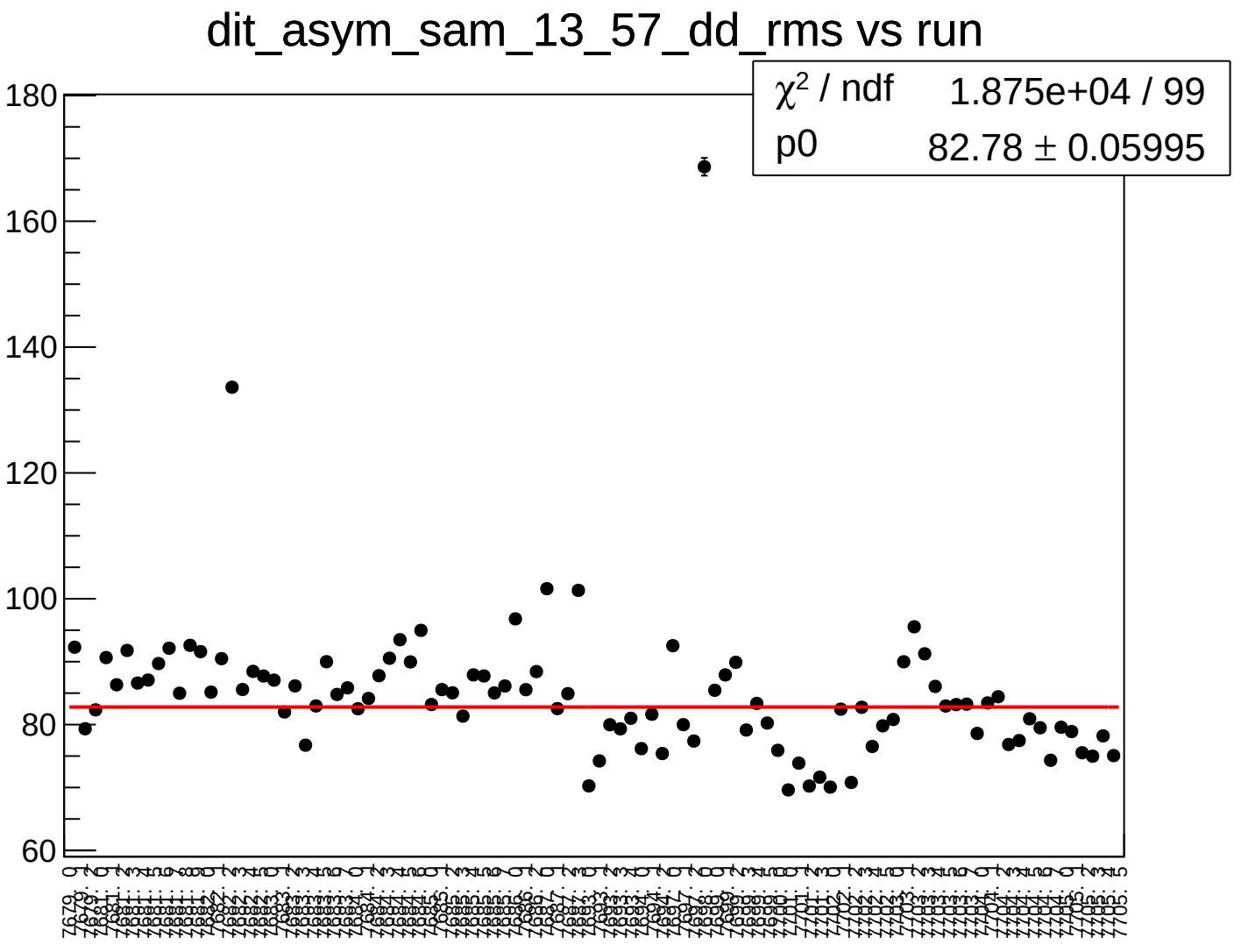
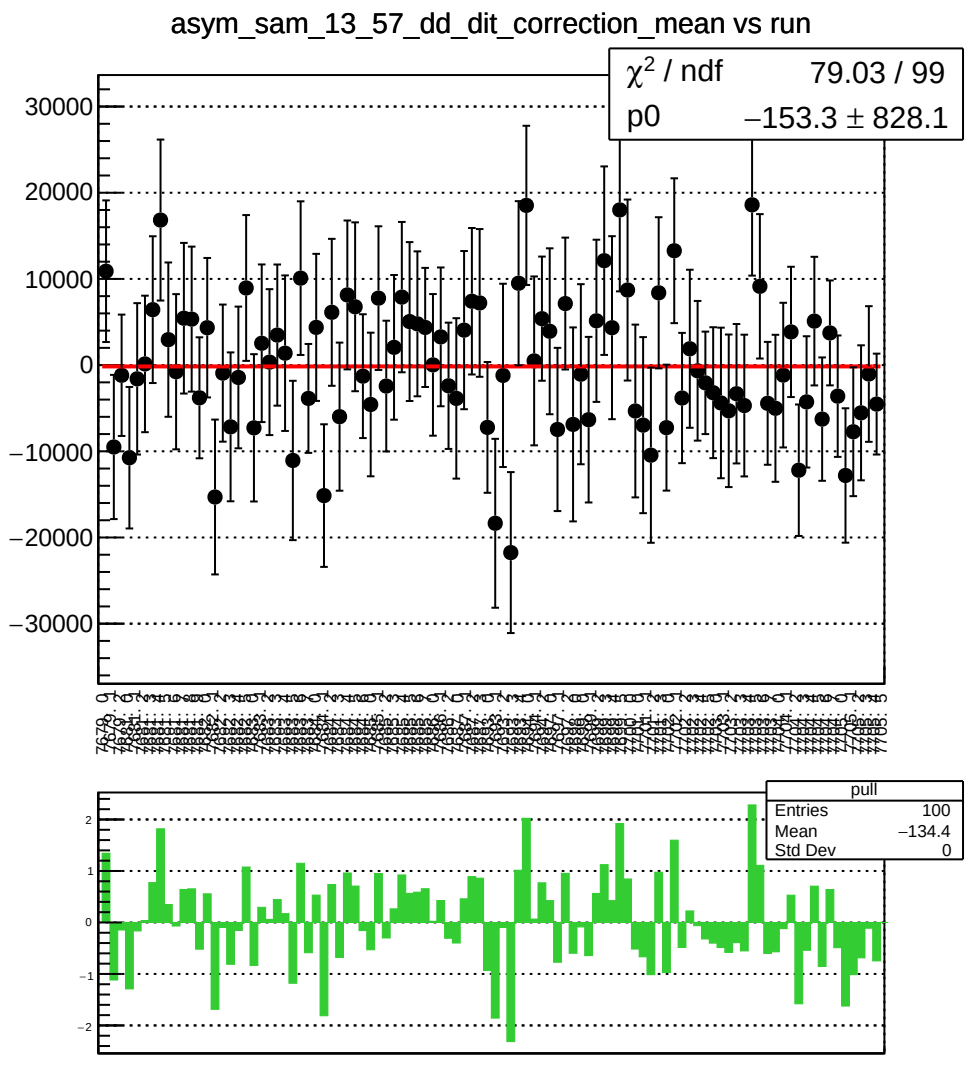
2
4
6
8

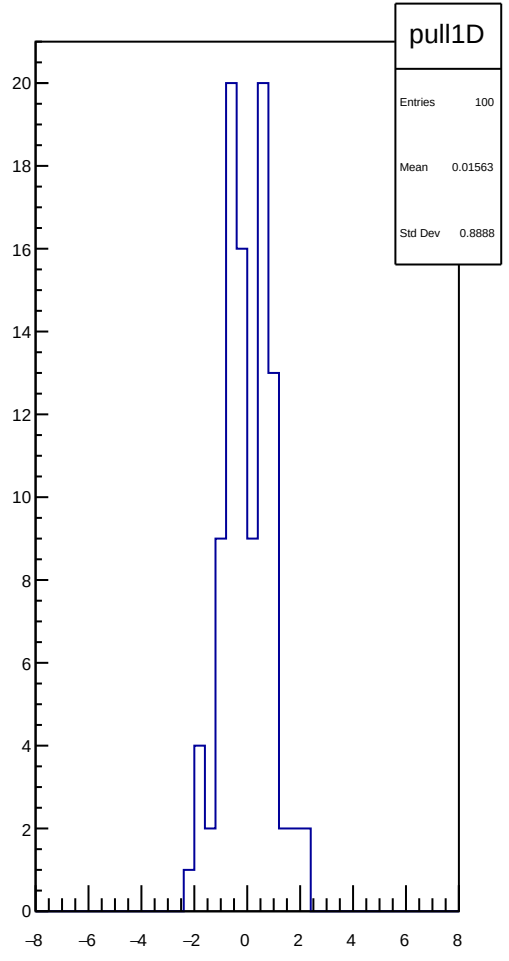

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.612e+04 / 99
p0 828.5 ± 0.5996
1100
1050
1000
950
900
850
800
750
700
650

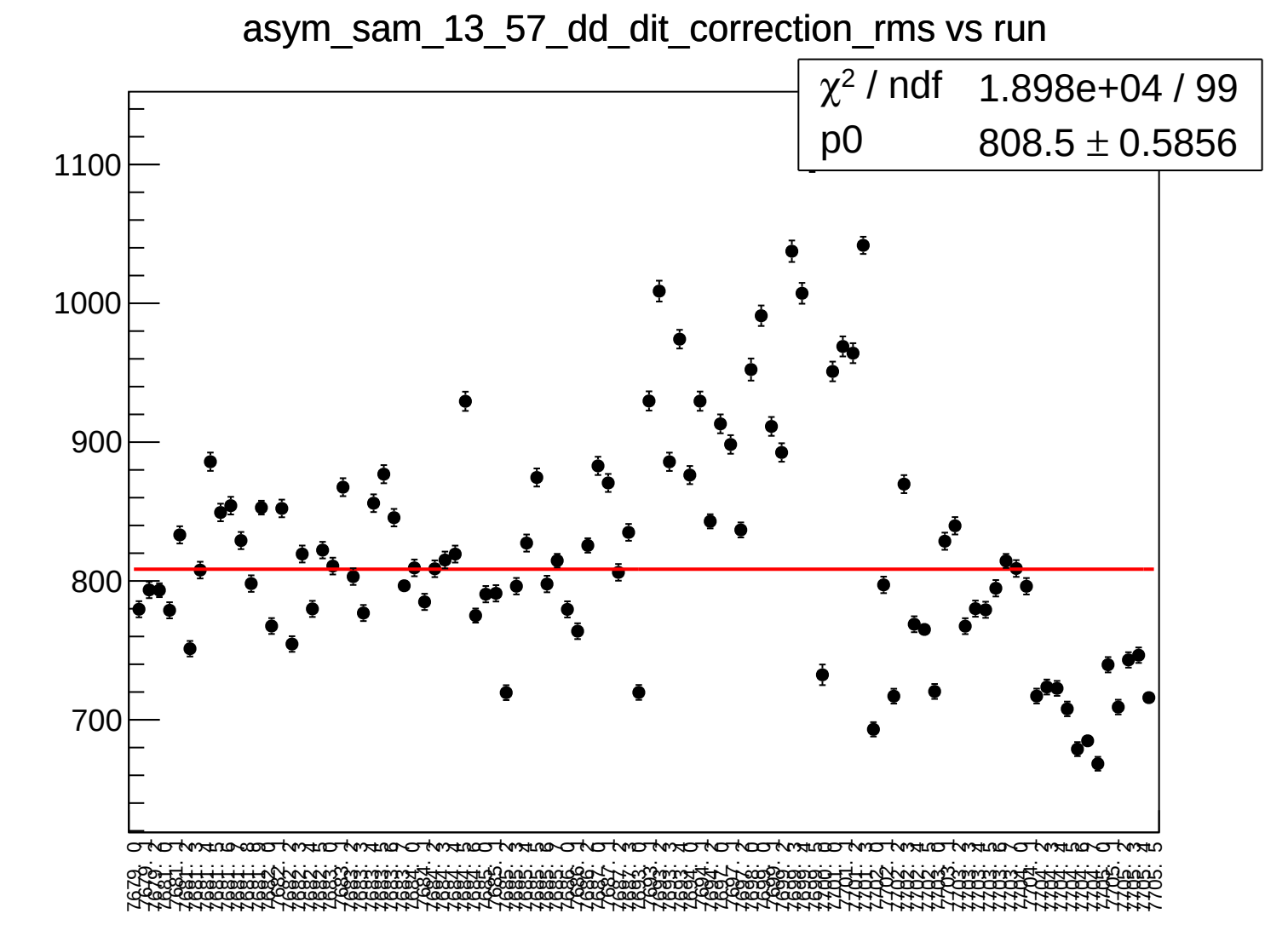

dit_asym_sam_13_57_dd_mean vs run
χ^2 / ndf 100.4 / 99
p0 9.061 ± 84.79
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 100
Mean −144.5
Std Dev 0
2
1
0
−1
−2
−3

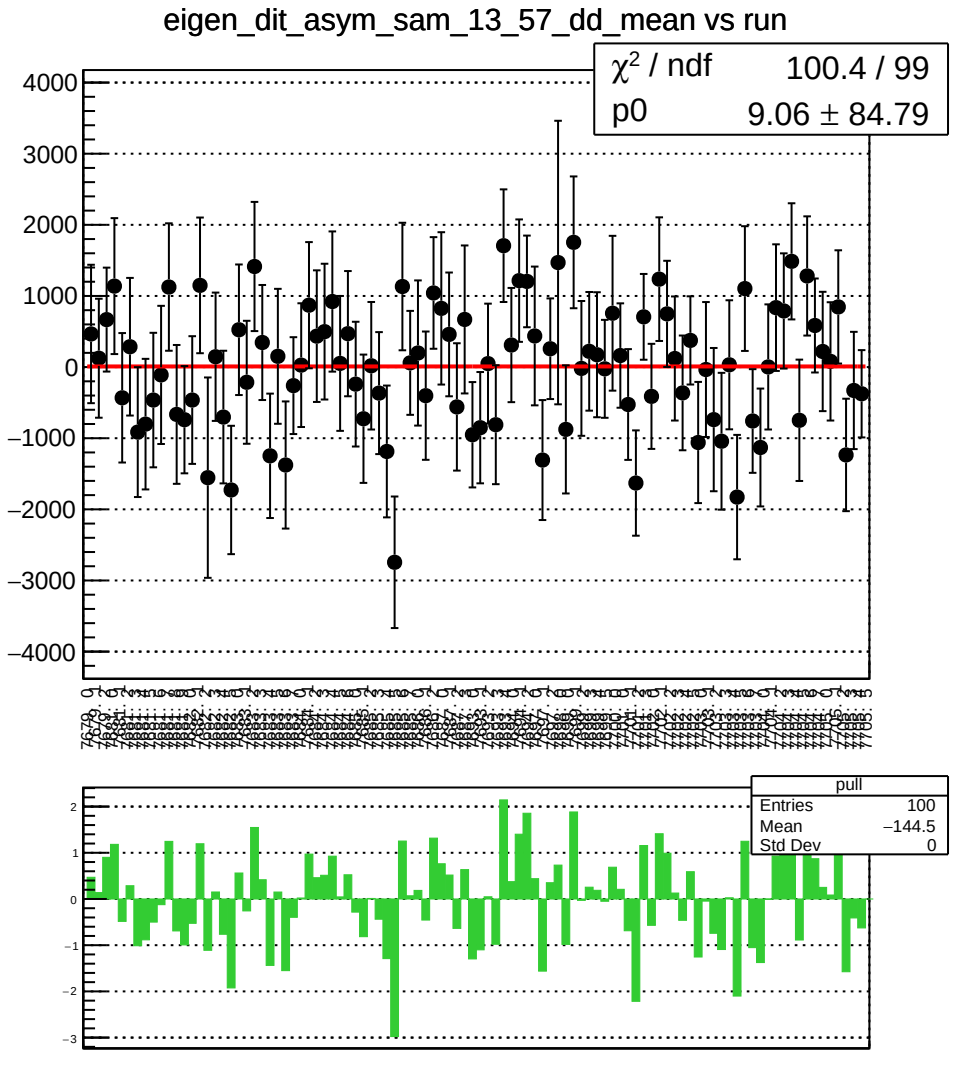

pull1D
Entries 100
Mean −0.005891
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

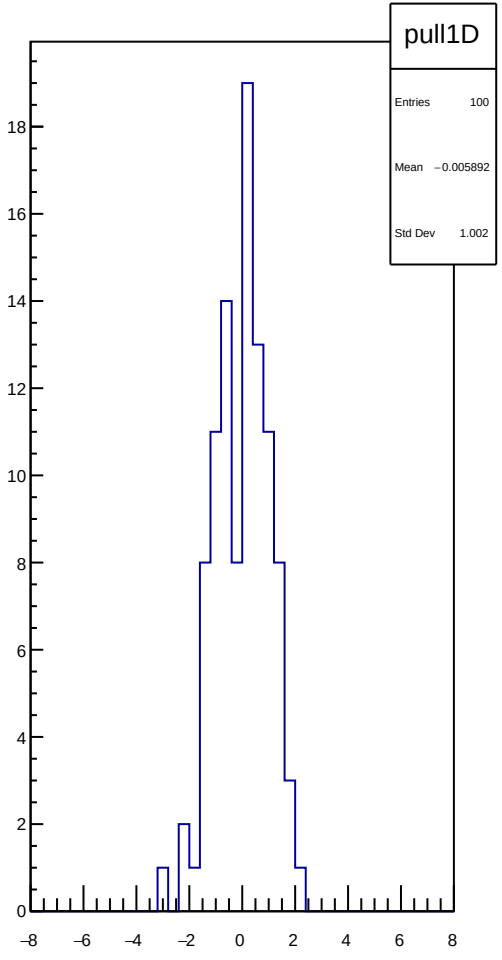

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.875e+04 / 99
p0 82.78 ± 0.05995
180
160
140
120
100
80
60

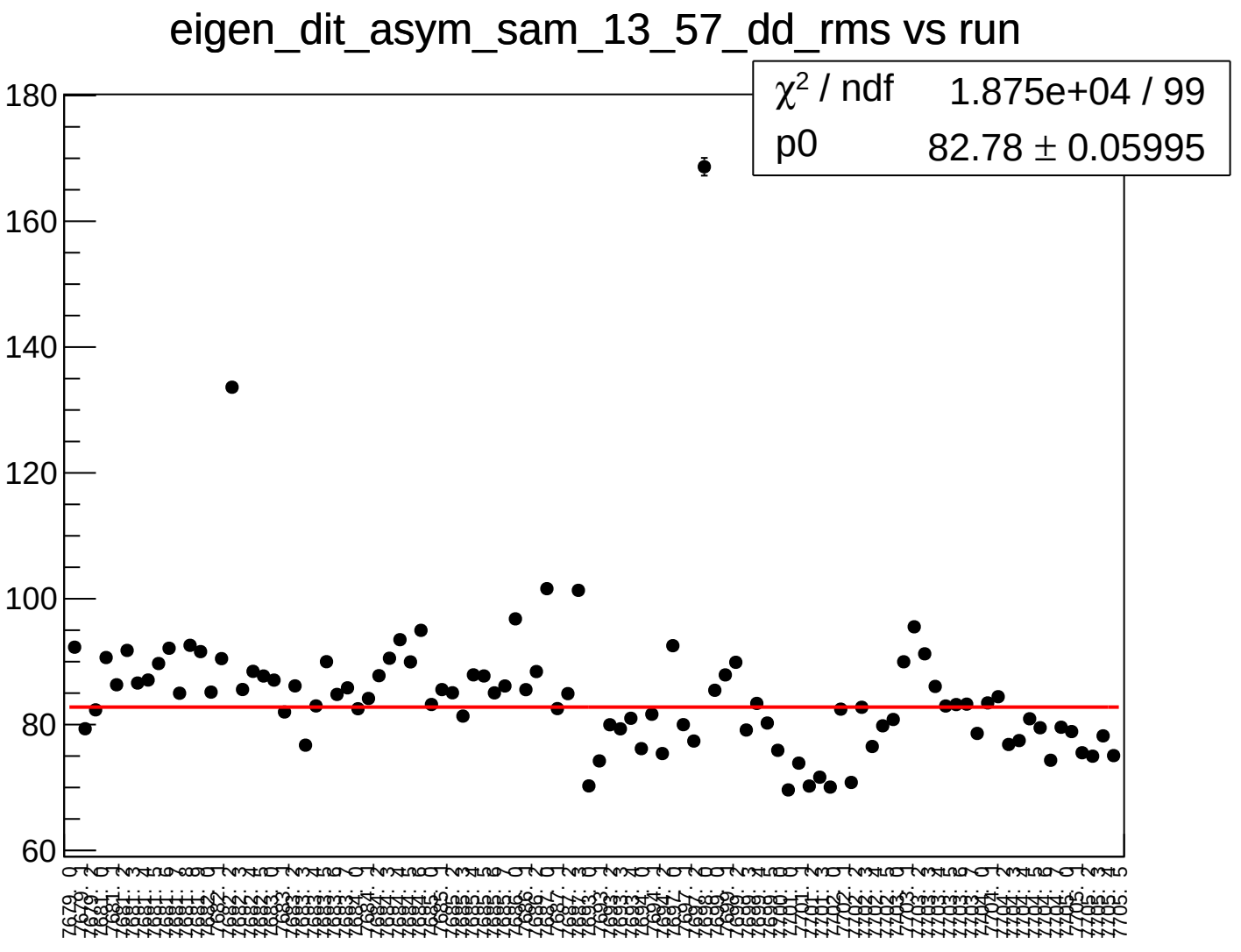

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 79.03 / 99
p0 −153.3 ± 828.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 100
Mean −134.4
Std Dev 0
2
1
0
−1
−2

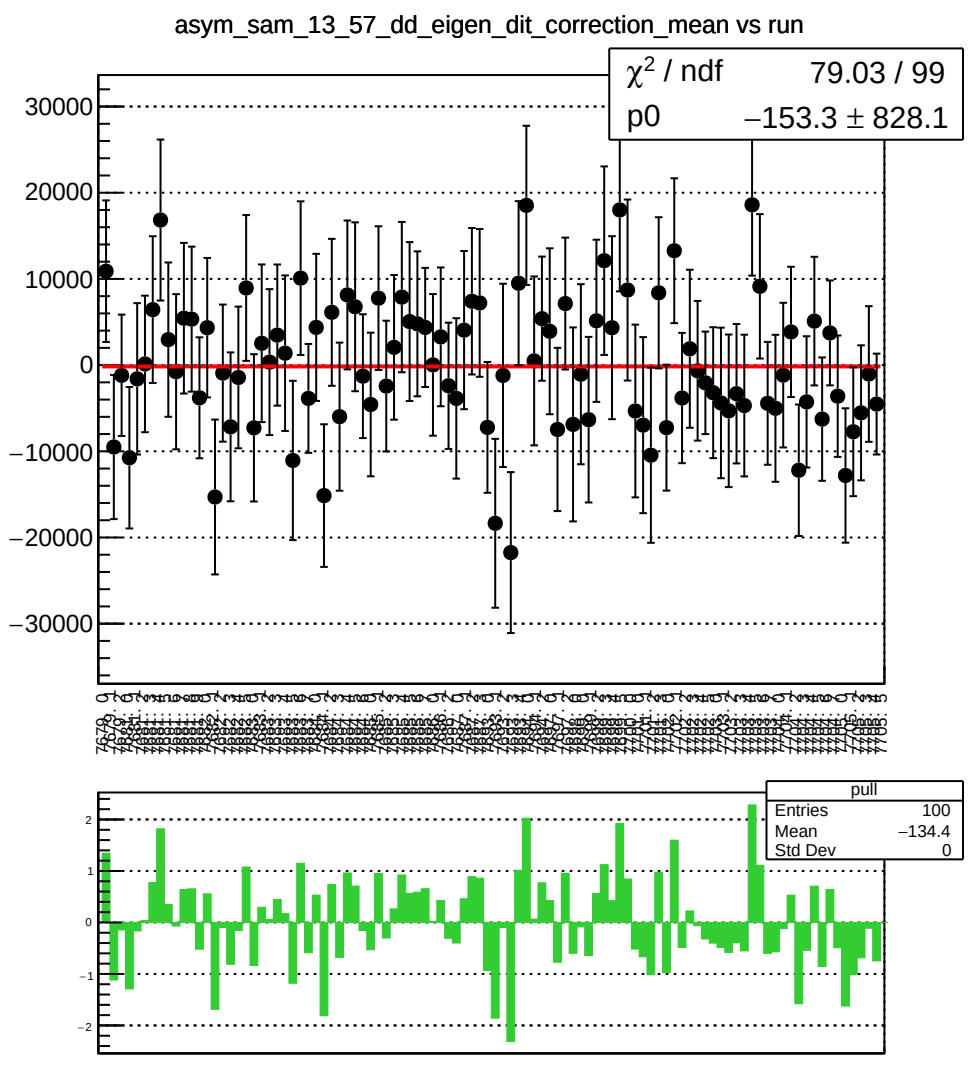

pull1D
Entries 100
Mean 0.01563
Std Dev 0.8888
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

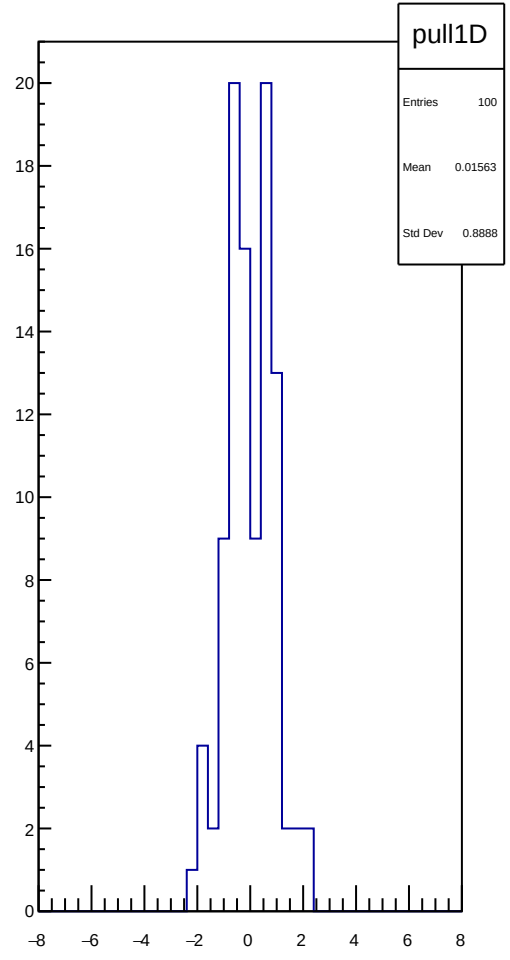

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 1.898e+04 / 99
p0 808.5 ± 0.5856
1100
1000
900
800
700

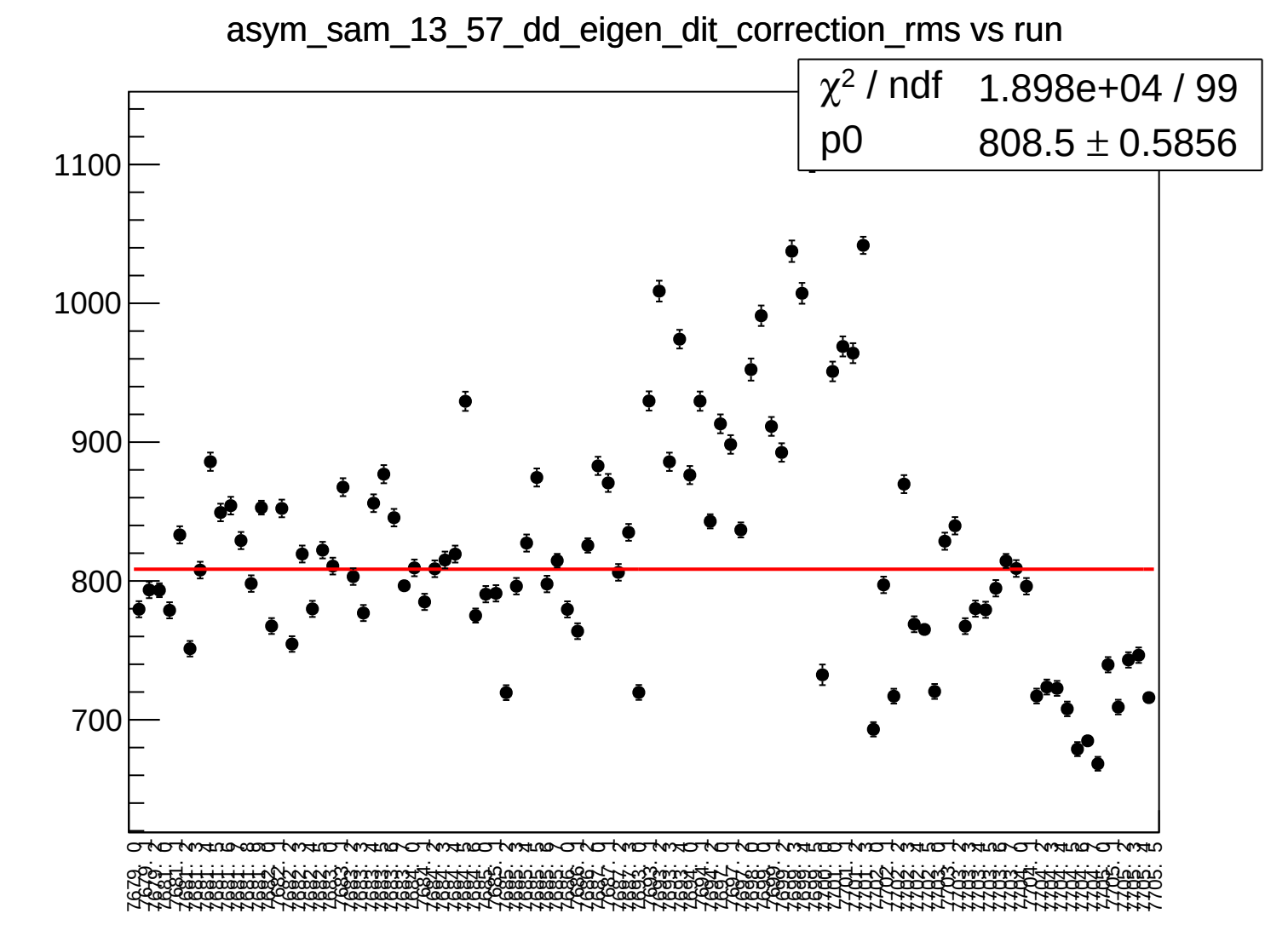

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 100.4 / 99
p0 9.06 ± 84.79
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 100
Mean −144.5
Std Dev 0
2
1
0
−1
−2
−3

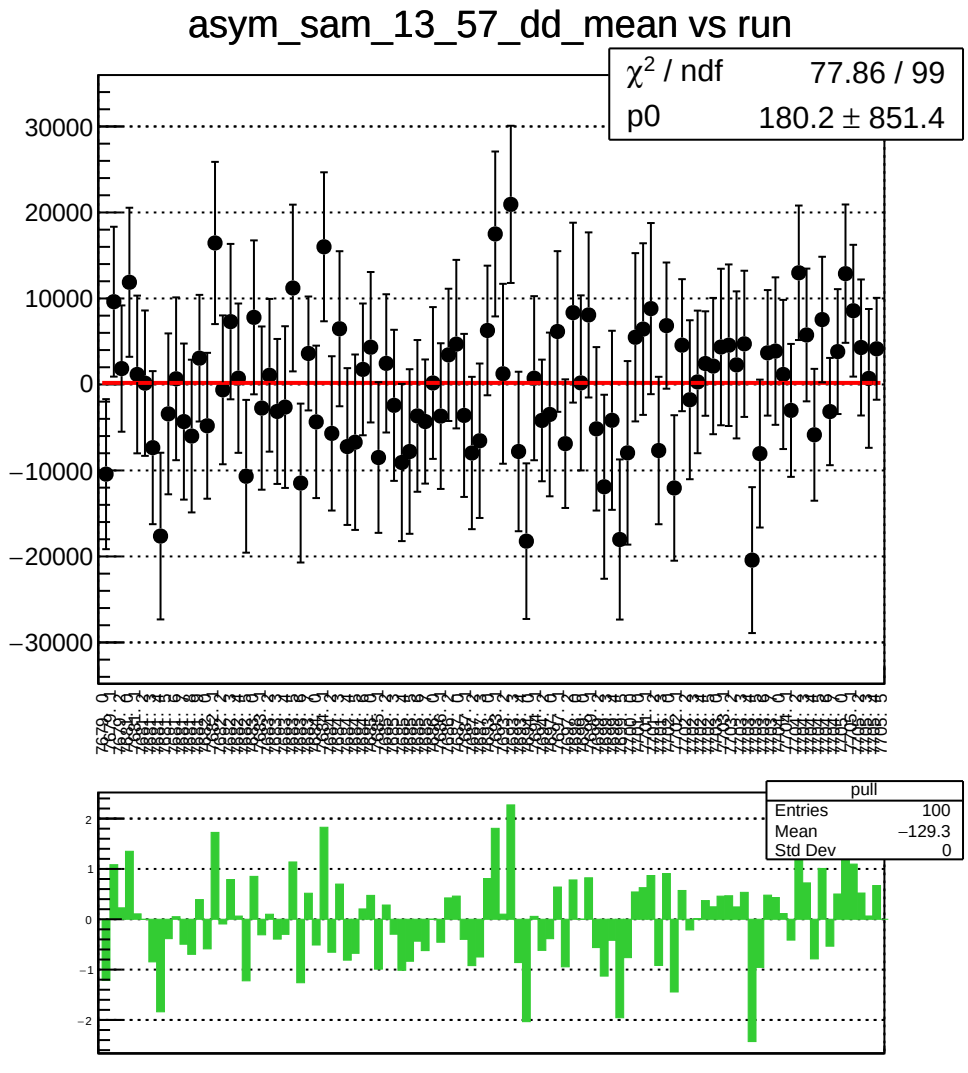

pull1D
Entries 100
Mean −0.005892
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

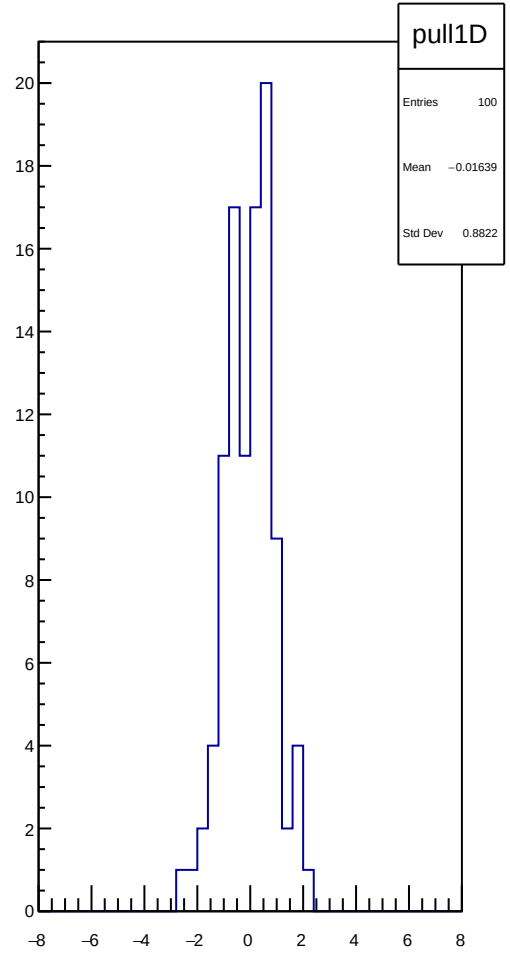

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.875e+04 / 99
p0 82.78 ± 0.05995
180
160
140
120
100
80
60

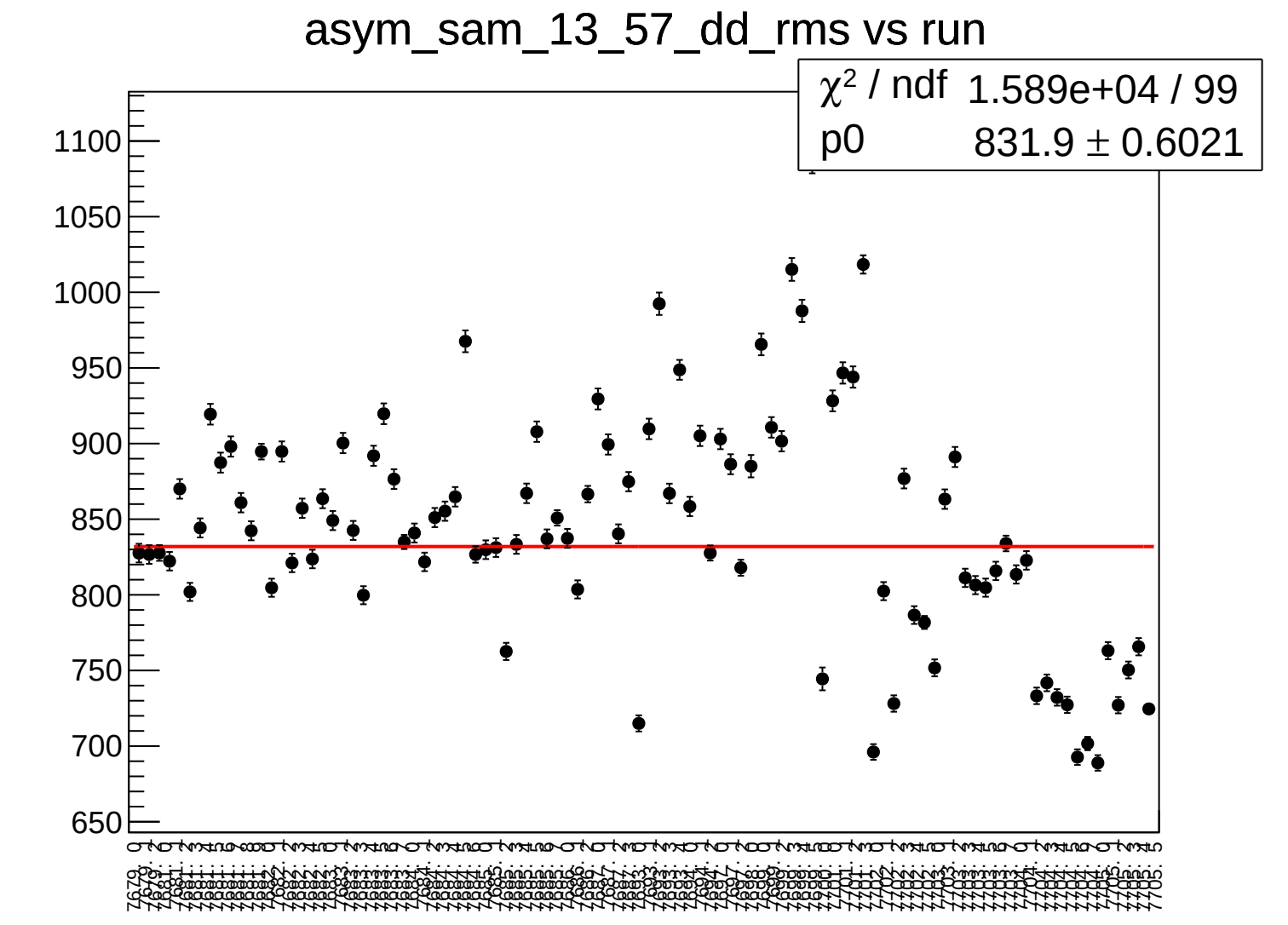

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.03 / 99
p0 −153.3 ± 828.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 100
Mean −134.4
Std Dev 0
2
1
0
−1
−2

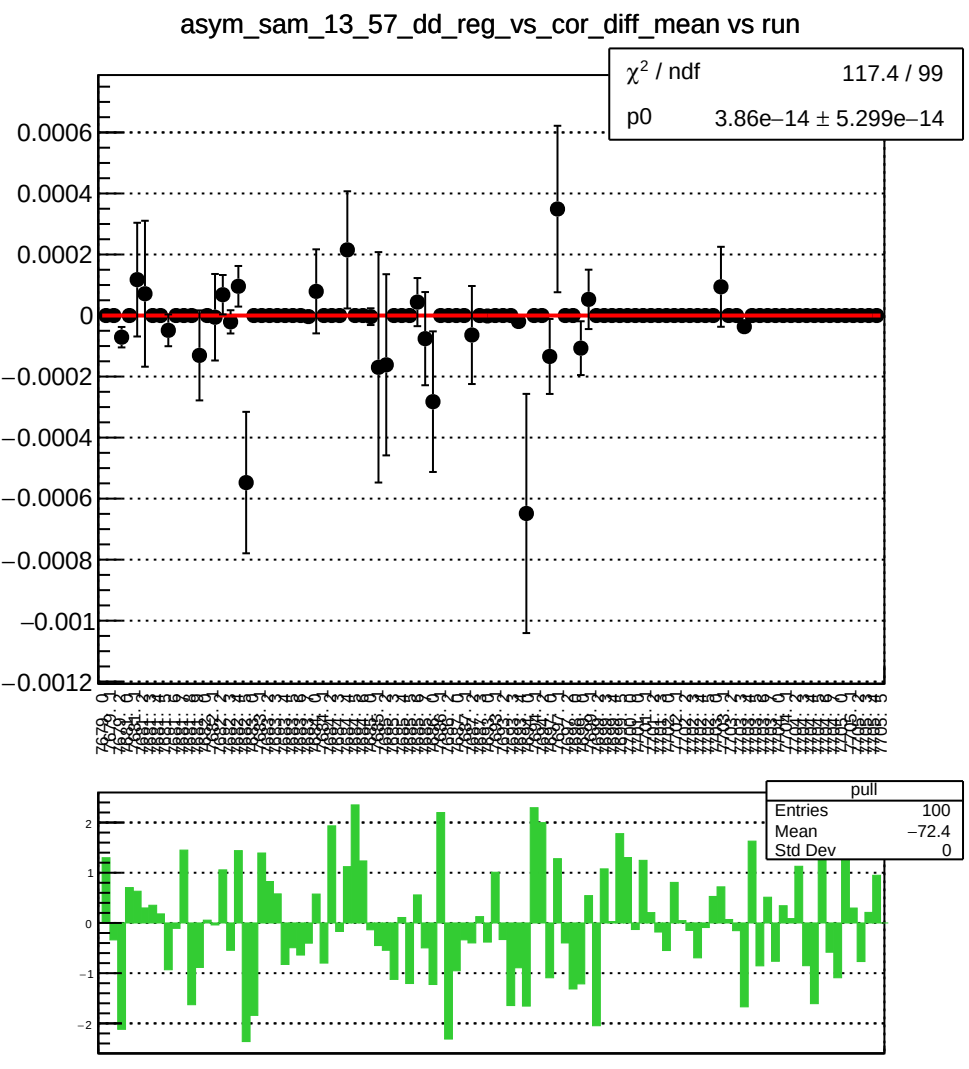

pull1D
Entries 100
Mean 0.01563
Std Dev 0.8888
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

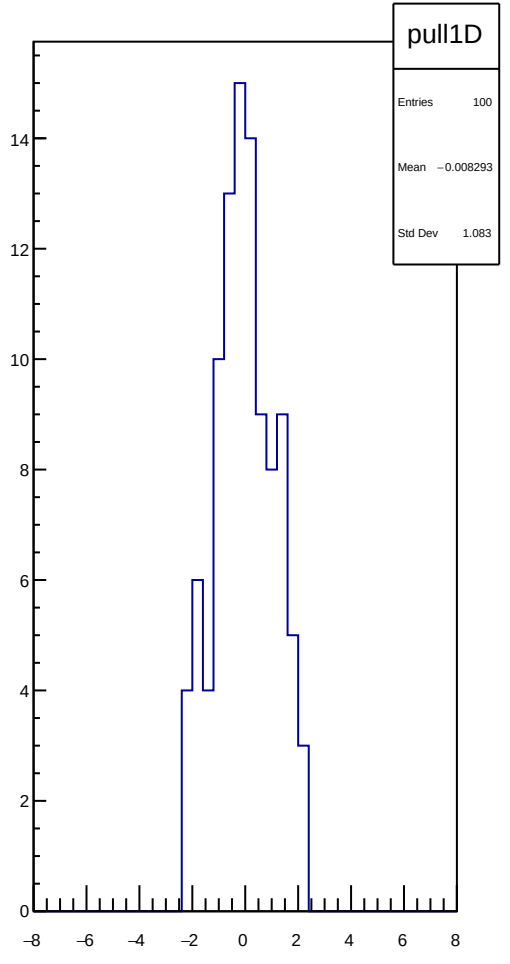

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.898e+04 / 99
p0 808.5 ± 0.5856
1100
1000
900
800
700

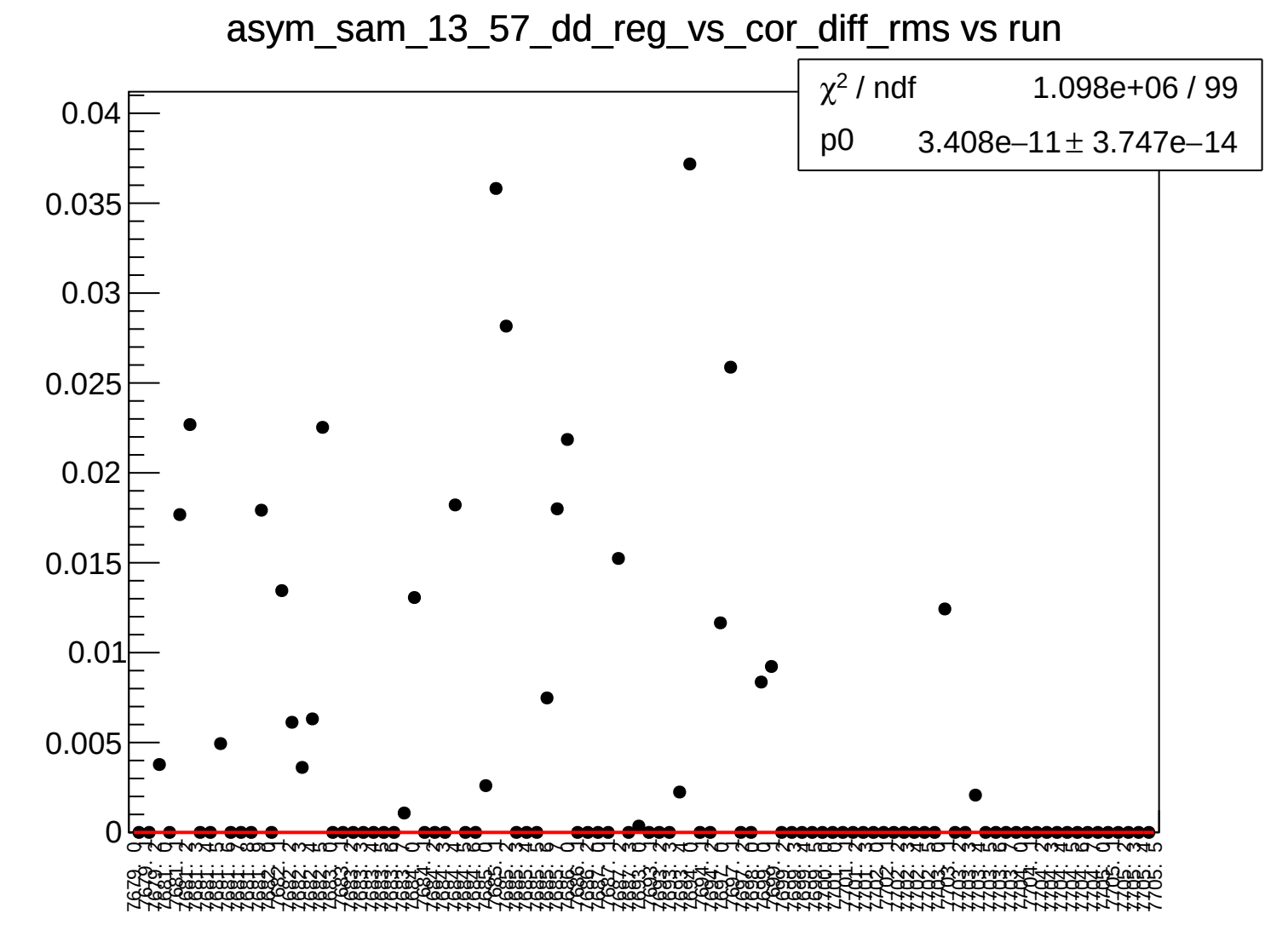

asym_sam_13_57_dd_mean vs run
χ² / ndf 77.86 / 99
p0 180.2 ± 851.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 100
Mean −129.3
Std Dev 0
2
1
0
−1
−2

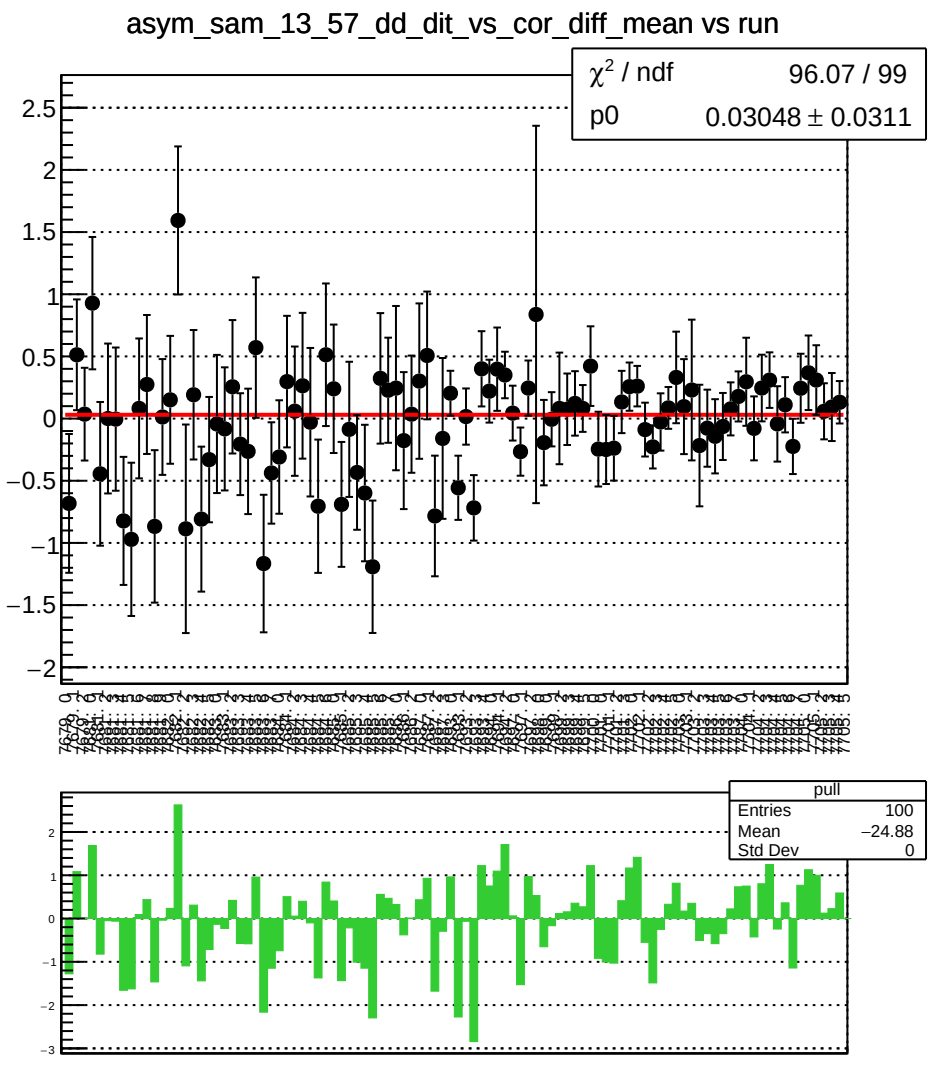

pull1D
Entries 100
Mean −0.01639
Std Dev 0.8822
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

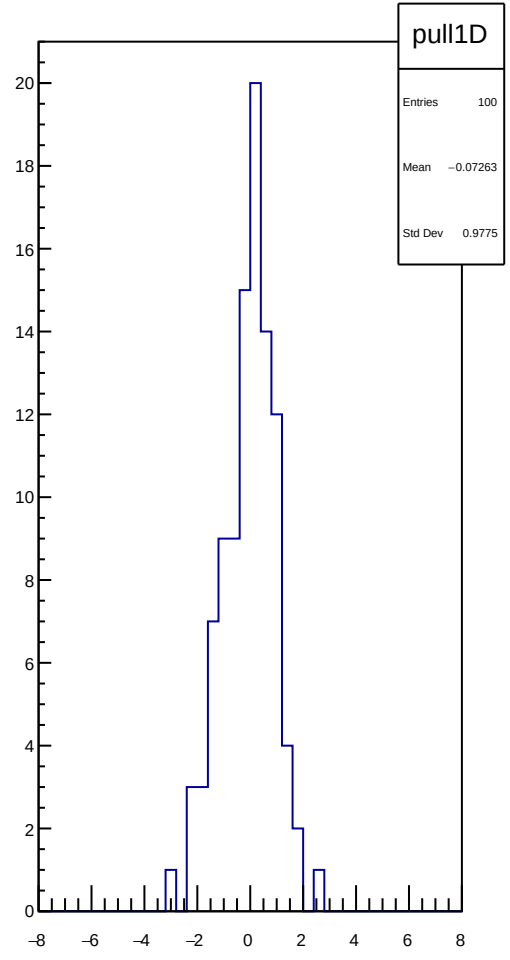

asym_sam_13_57_dd_rms vs run
χ² / ndf 1.589e+04 / 99
p0 831.9 ± 0.6021
1100
1050
1000
950
900
850
800
750
700
650

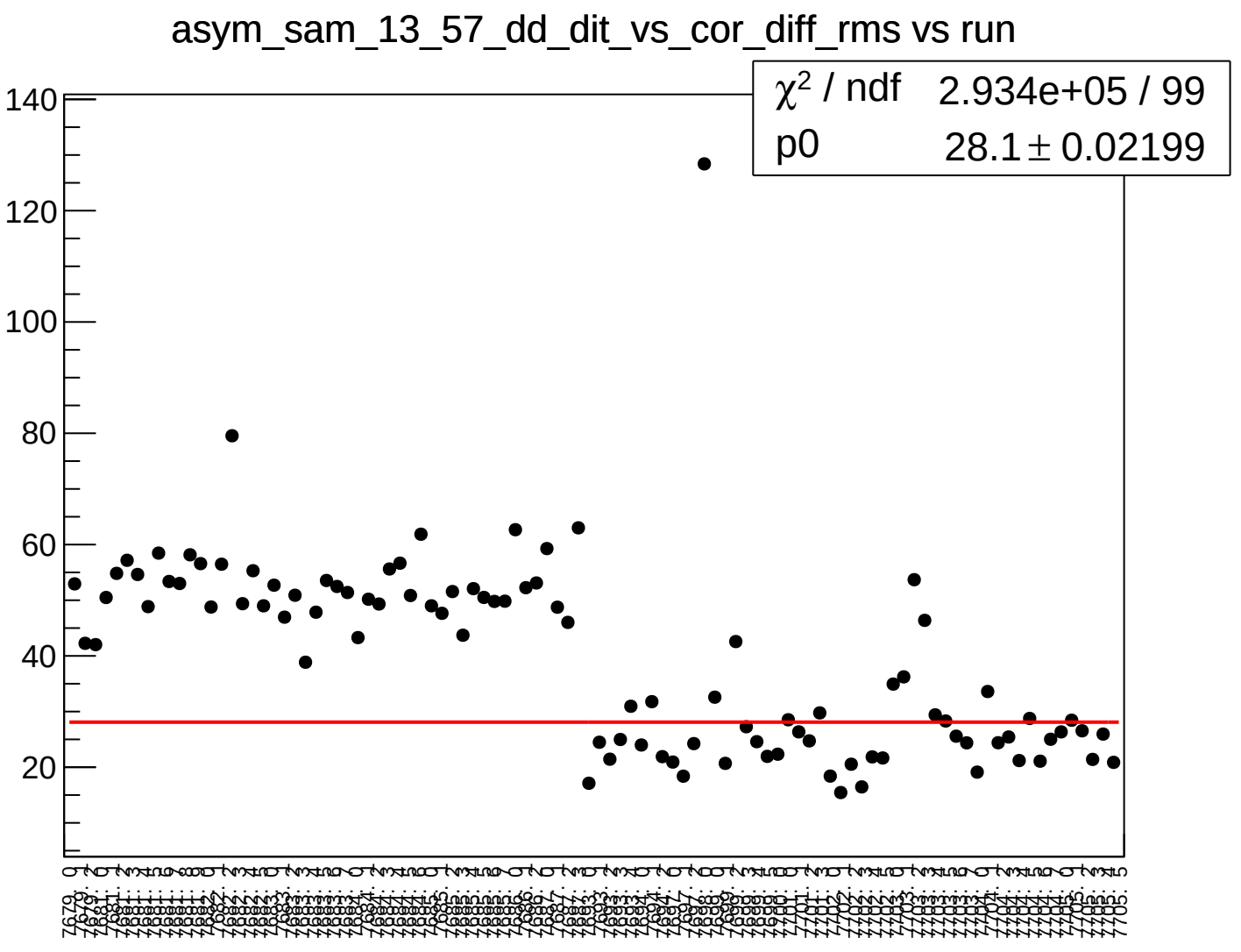

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 117.4 / 99
p0 3.86e−14 ± 5.299e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 100
Mean −72.4
Std Dev 0
2
1
0
−1
−2

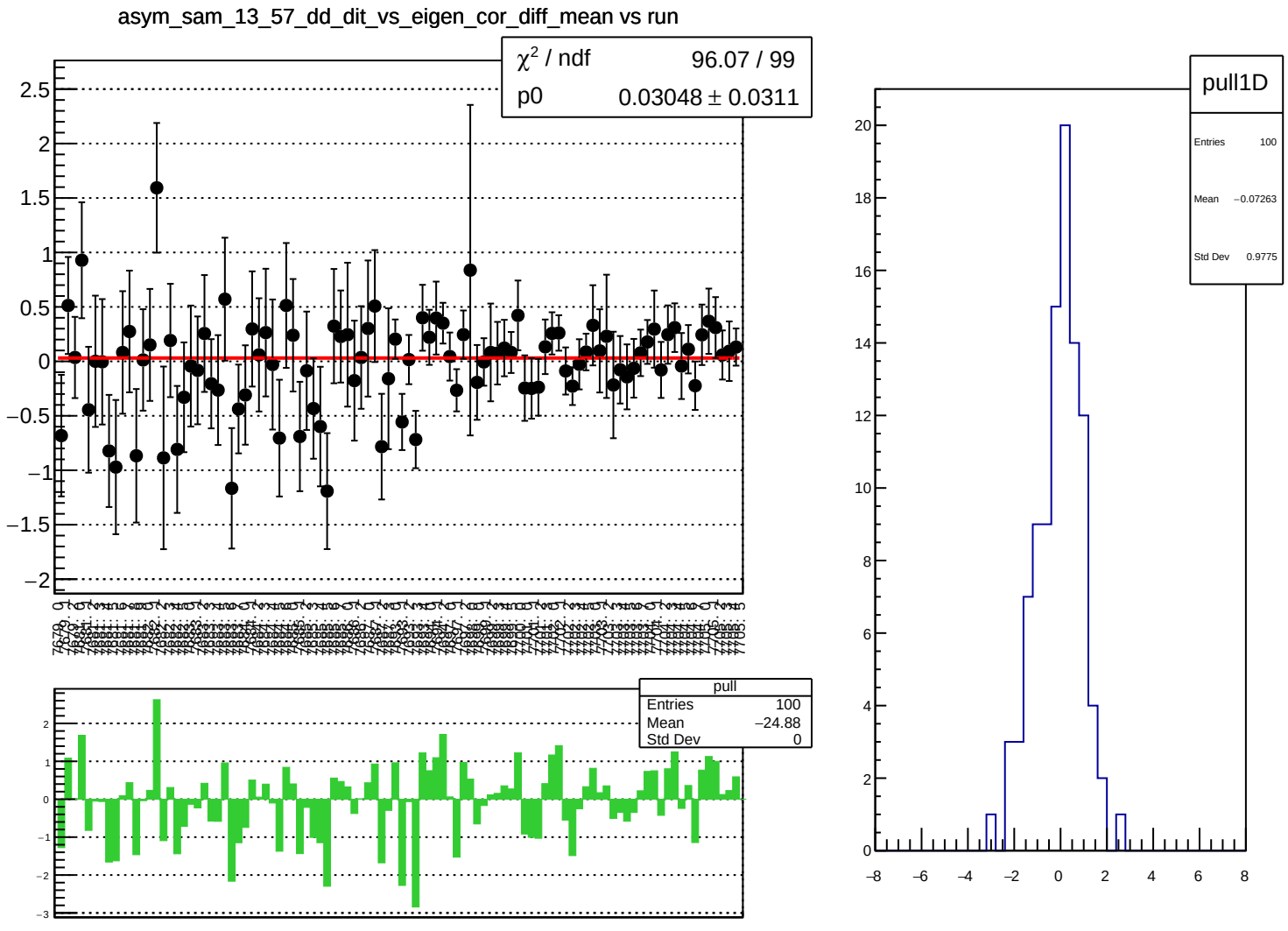

pull1D
Entries 100
Mean −0.008293
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

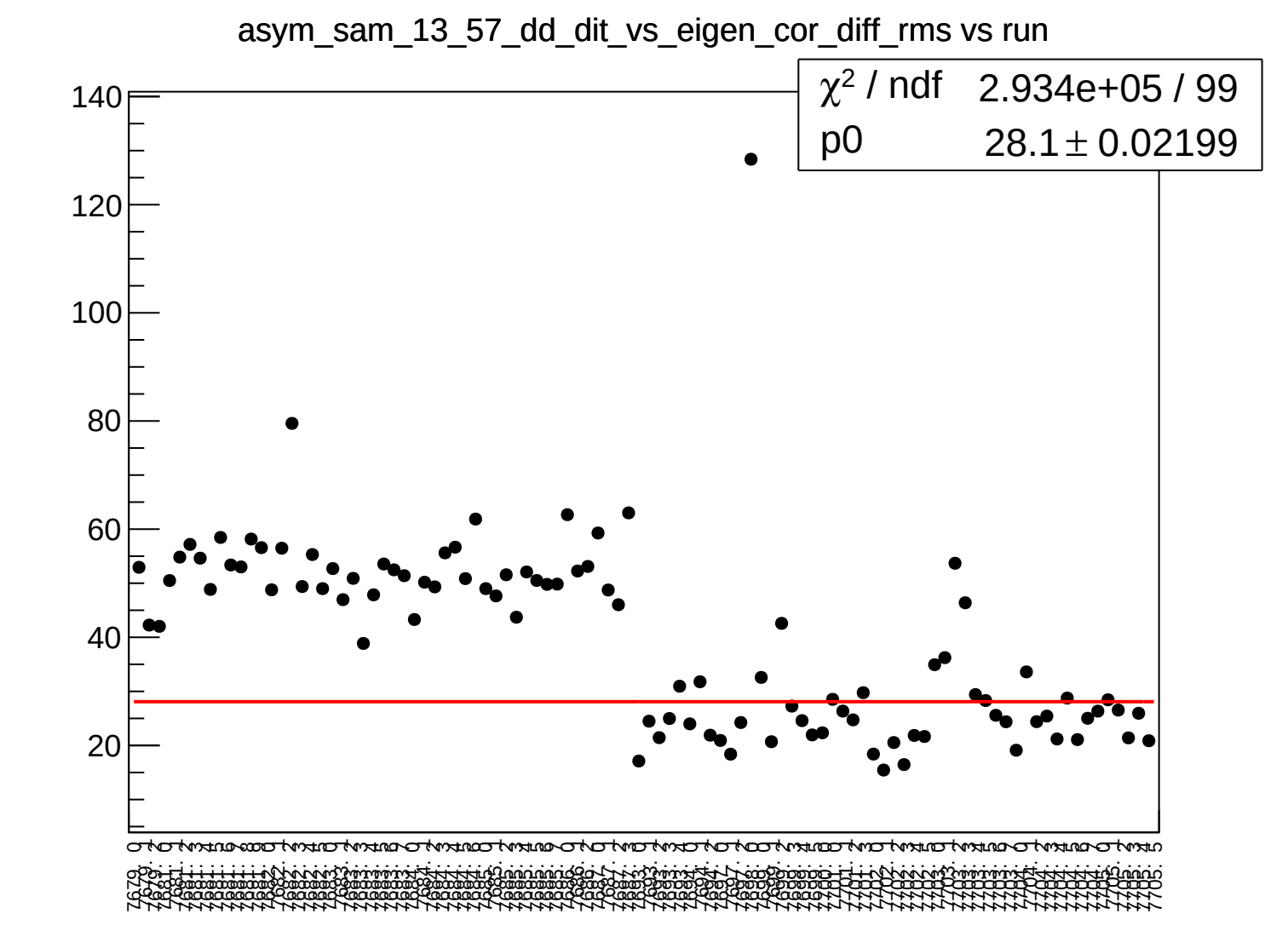

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.098e+06 / 99
p0 3.408e−11 ± 3.747e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

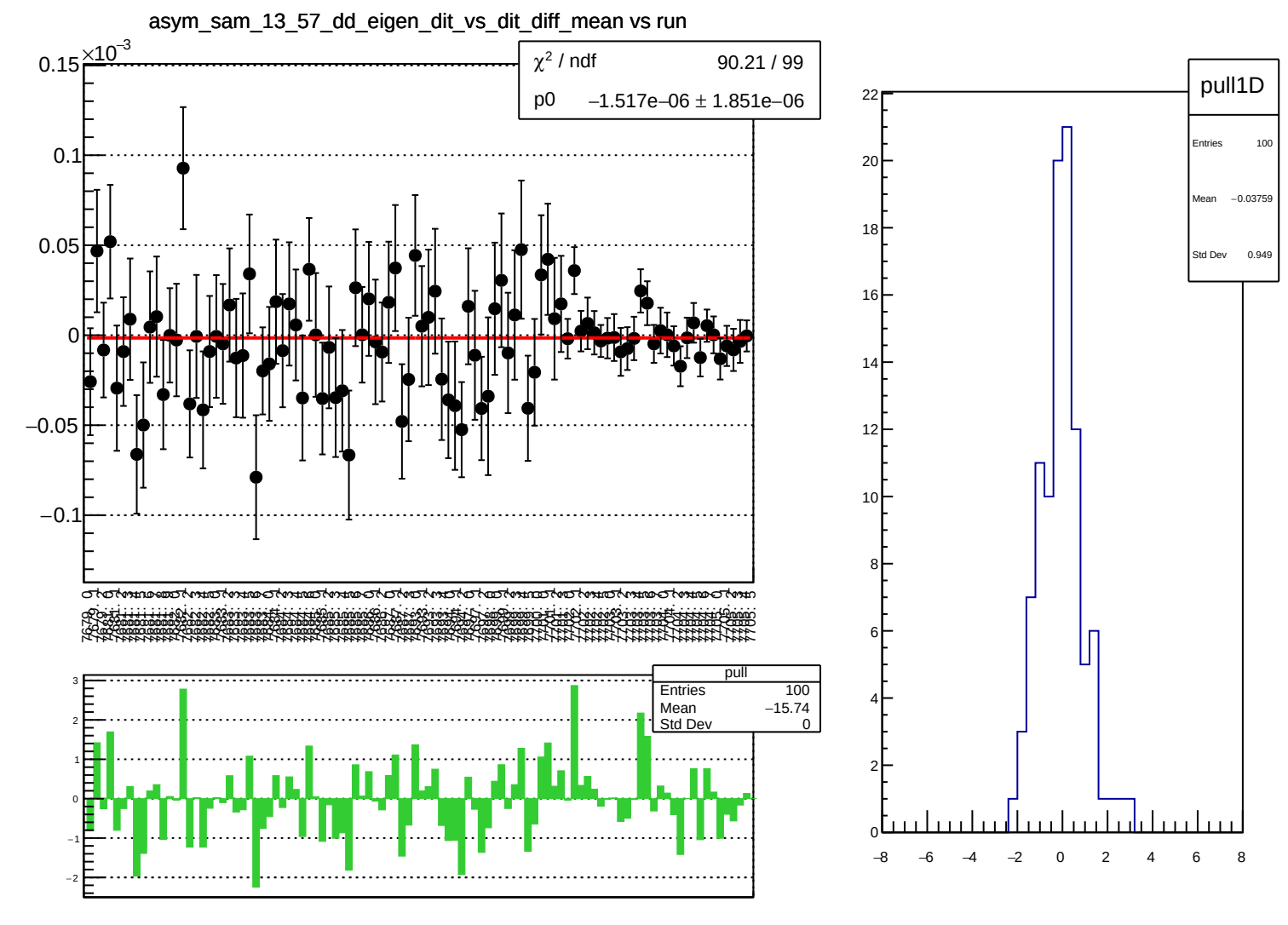

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 96.07 / 99
p0 0.03048 ± 0.0311
pull
Entries 100
Mean −24.88
Std Dev 0

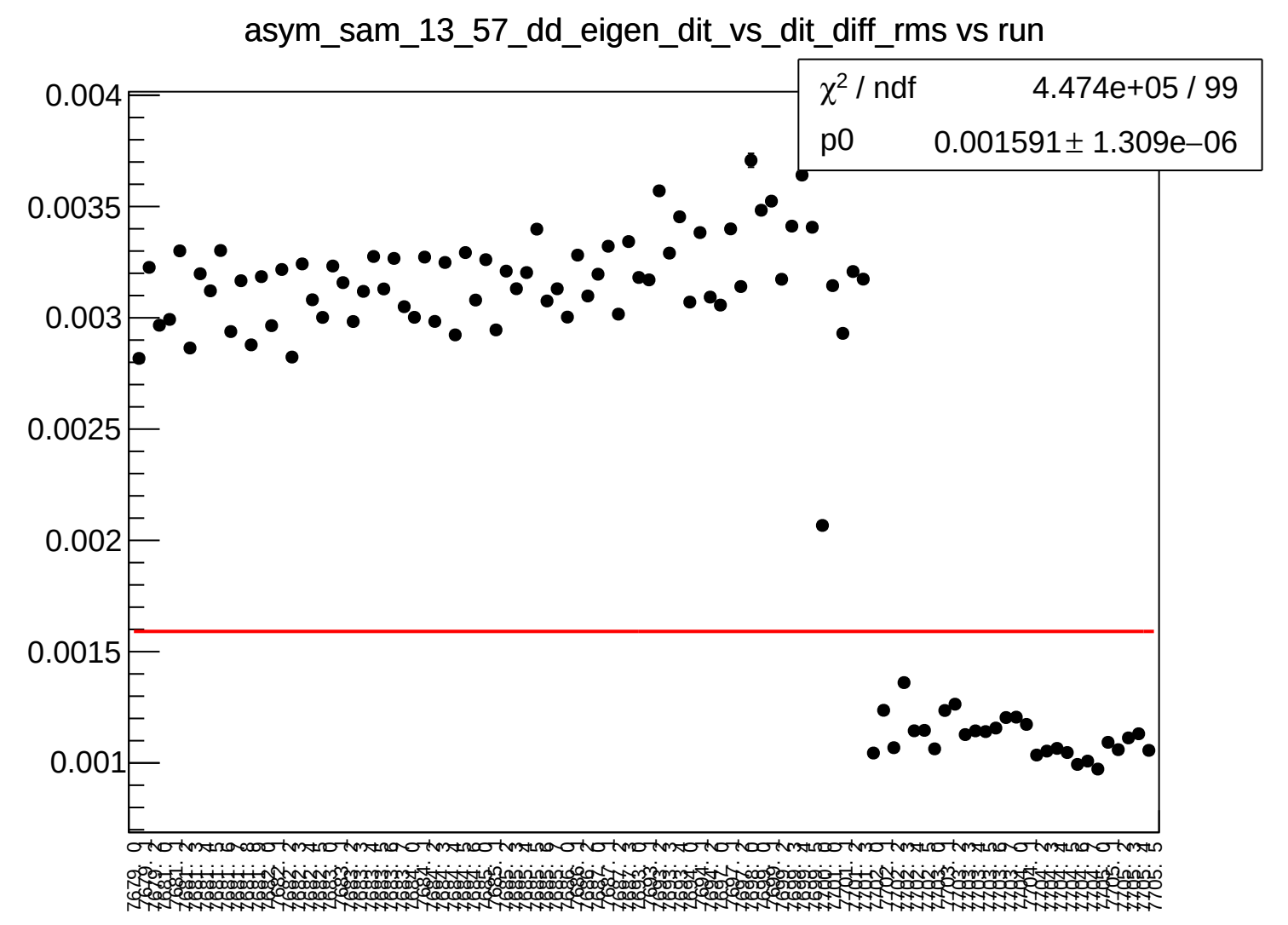

pull1D
Entries 100
Mean −0.07263
Std Dev 0.9775

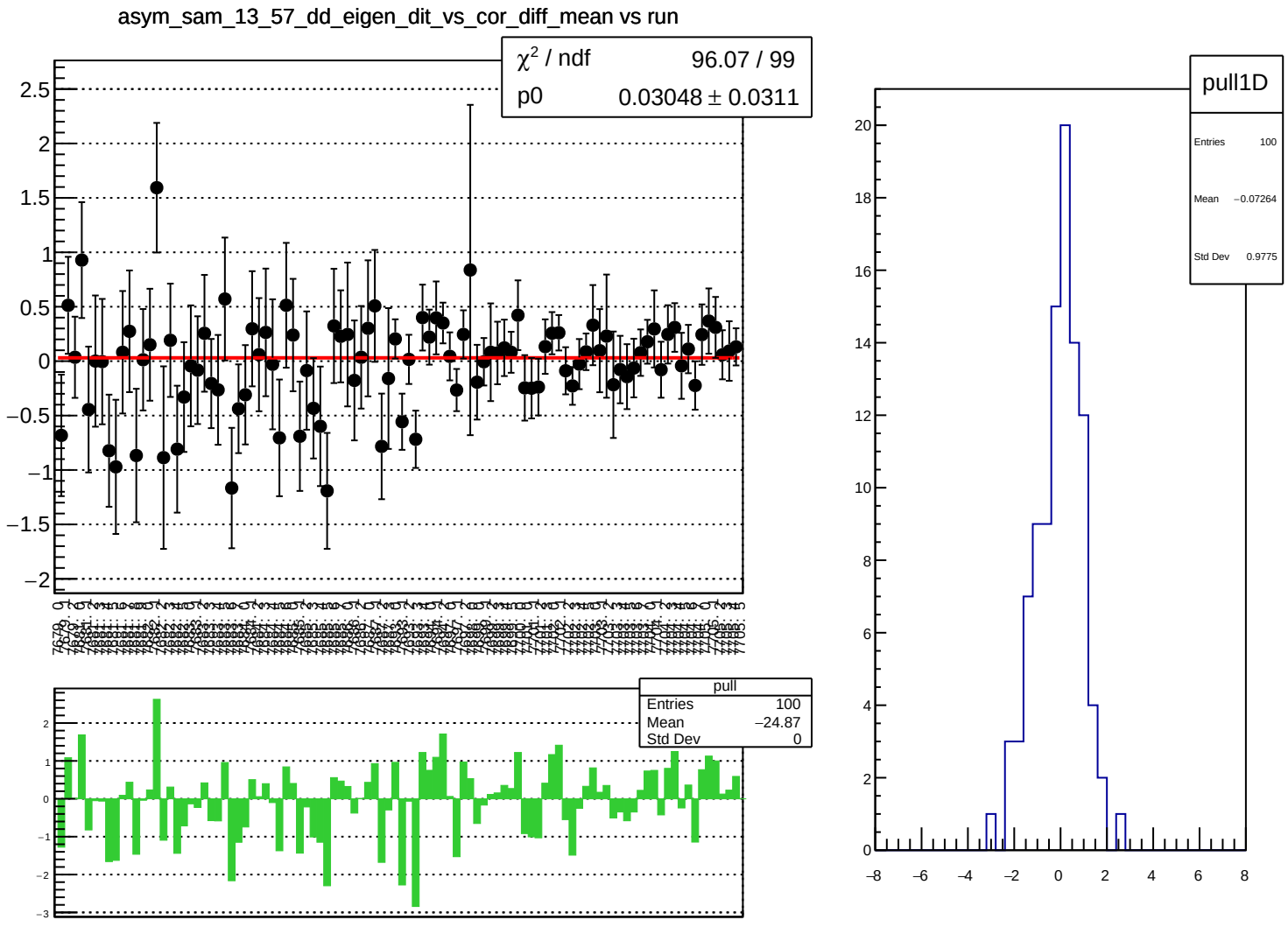

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.934e+05 / 99
p0 28.1 ± 0.02199
140
120
100
80
60
40
20

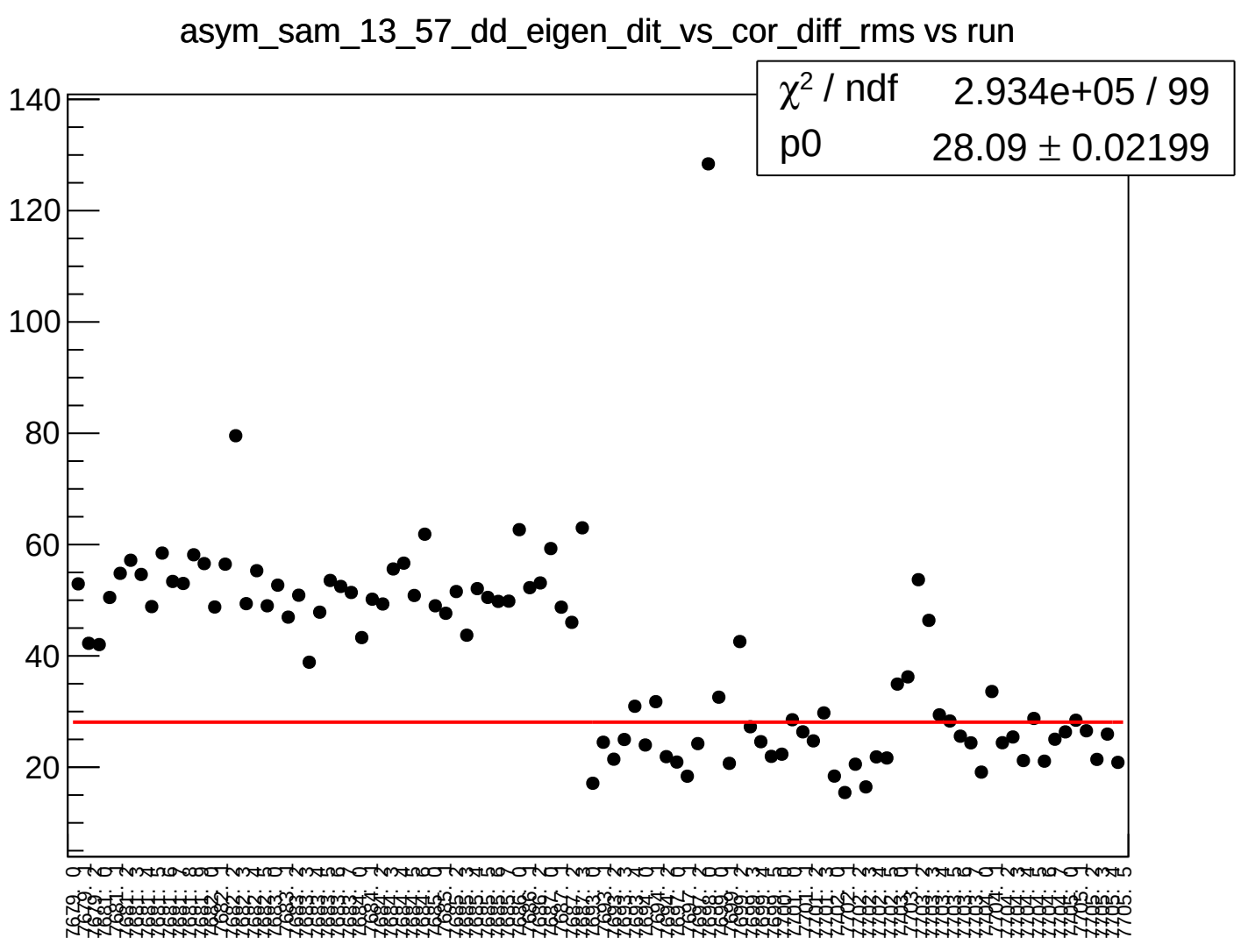

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.07 / 99
p0 0.03048 ± 0.0311
pull
Entries 100
Mean −24.88
Std Dev 0
pull1D
Entries 100
Mean −0.07263
Std Dev 0.9775

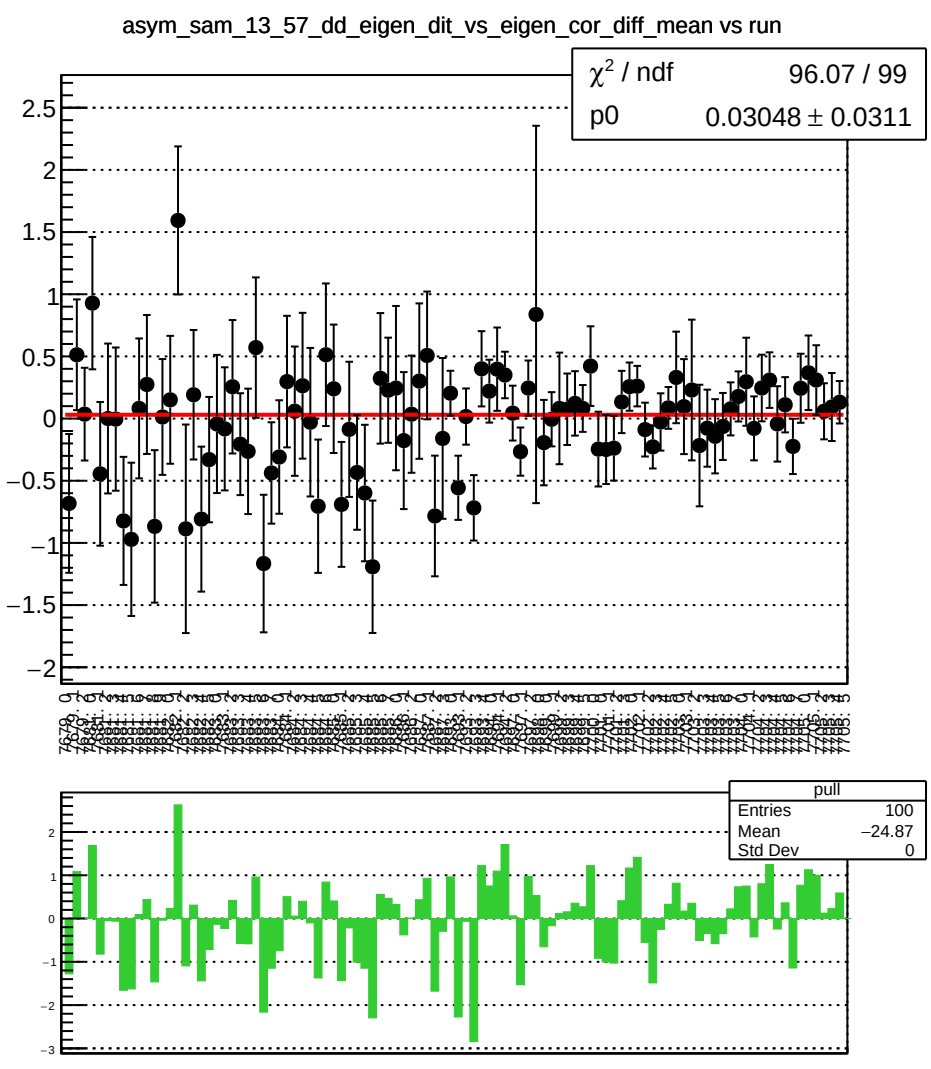

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.934e+05 / 99
p0 28.1 ± 0.02199
140
120
100
80
60
40
20

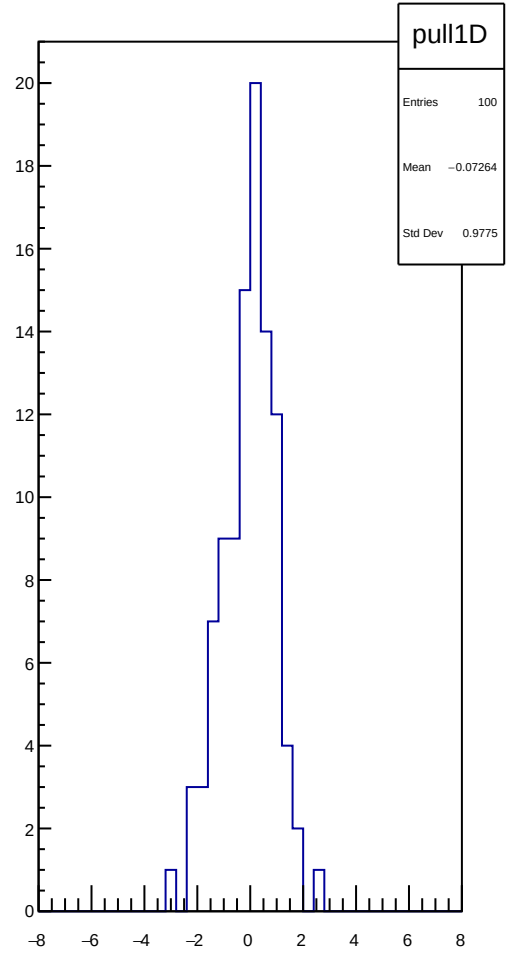

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 90.21 / 99
p0 −1.517e−06 ± 1.851e−06
×10⁻³
pull
Entries 100
Mean −15.74
Std Dev 0
pull1D
Entries 100
Mean −0.03759
Std Dev 0.949

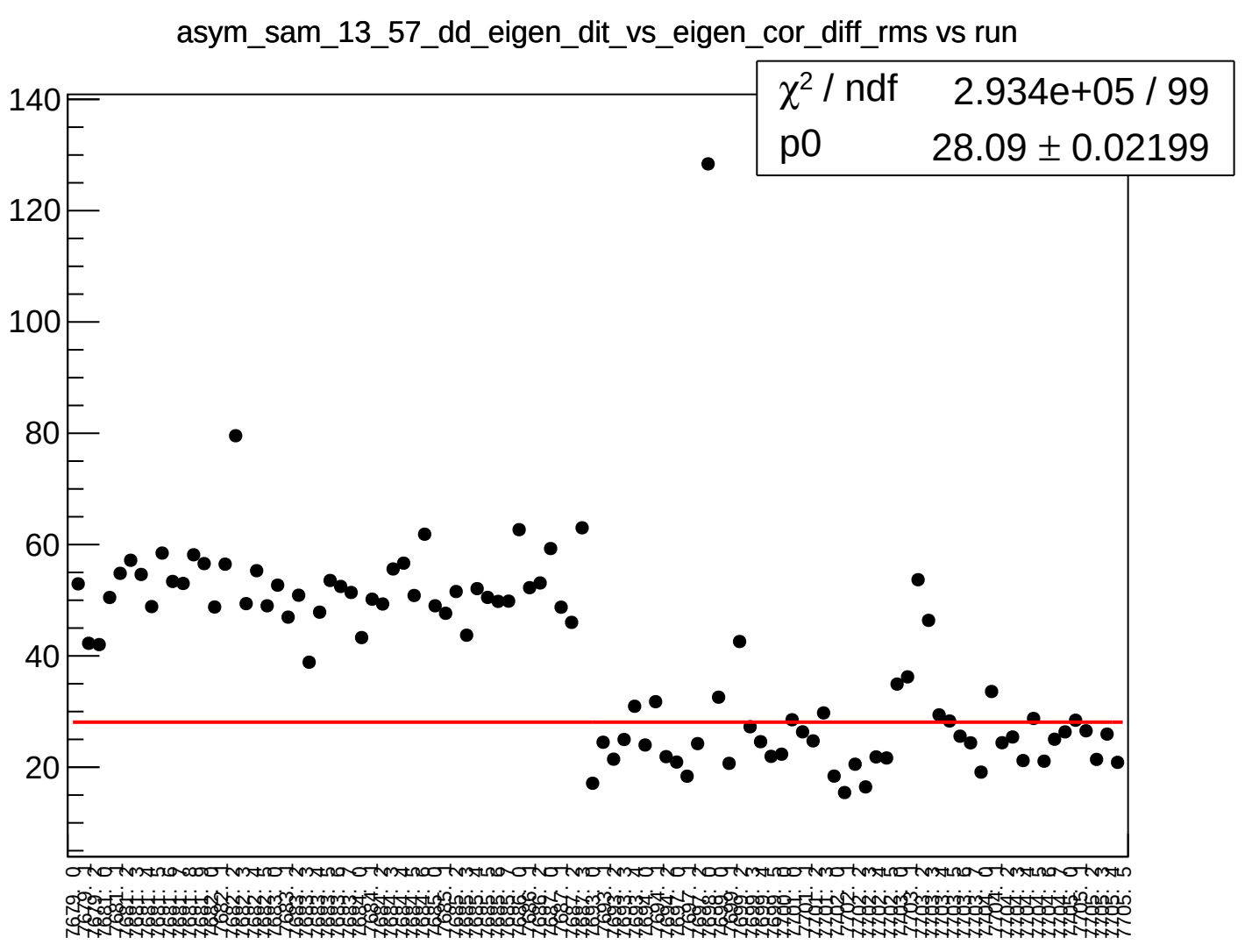

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.474e+05 / 99
p0 0.001591 ± 1.309e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

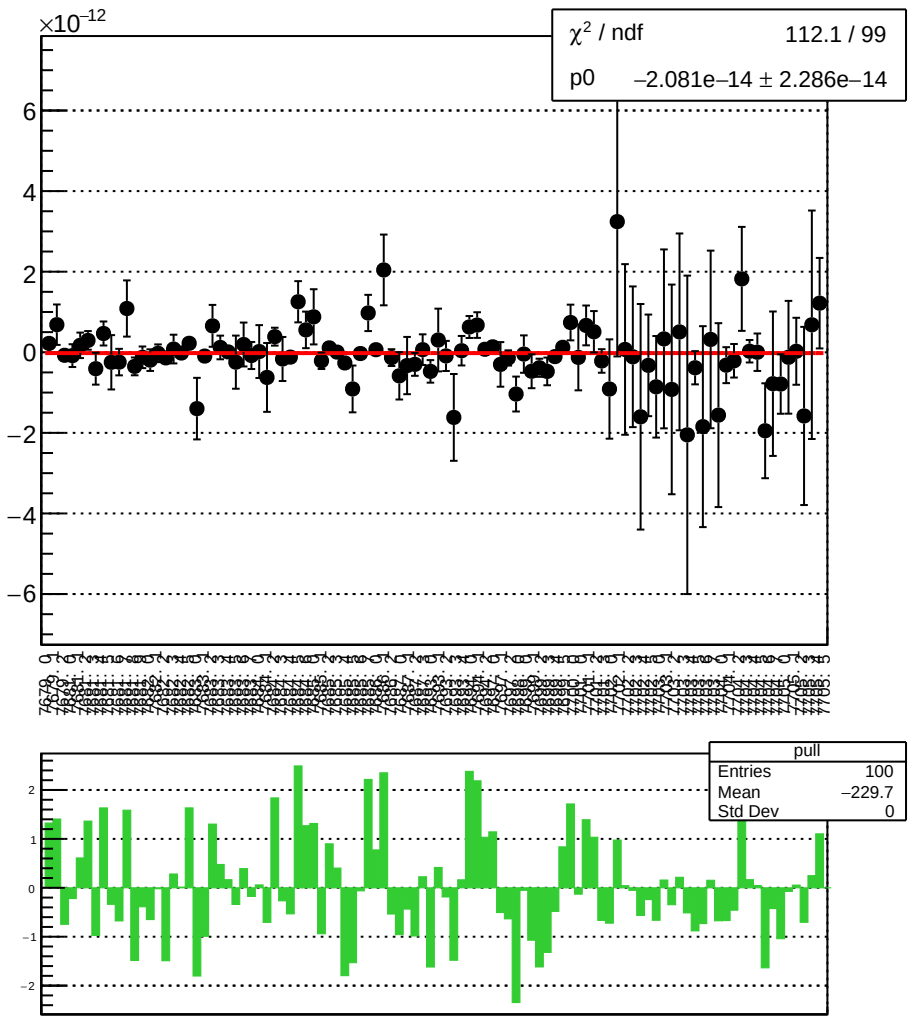

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.07 / 99
p0 0.03048 ± 0.0311
pull
Entries 100
Mean −24.87
Std Dev 0
pull1D
Entries 100
Mean −0.07264
Std Dev 0.9775

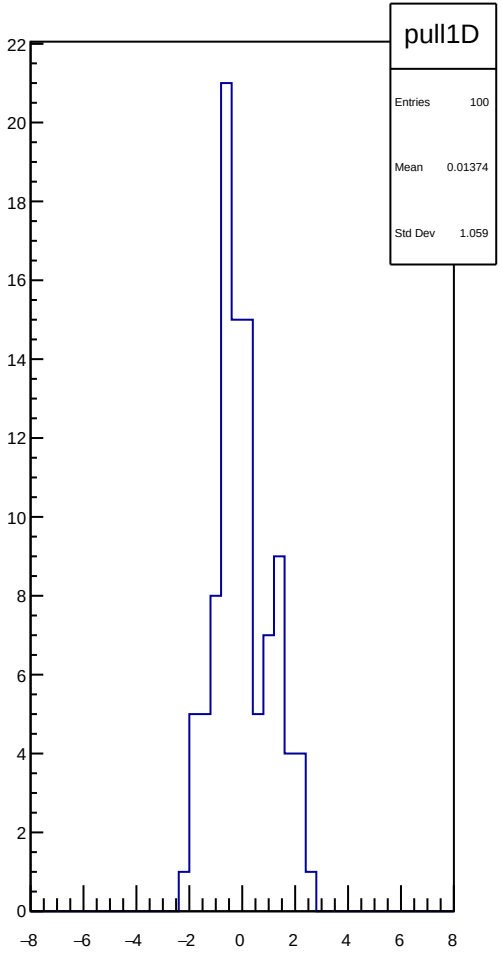

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.934e+05 / 99
p0 28.09 ± 0.02199
140
120
100
80
60
40
20

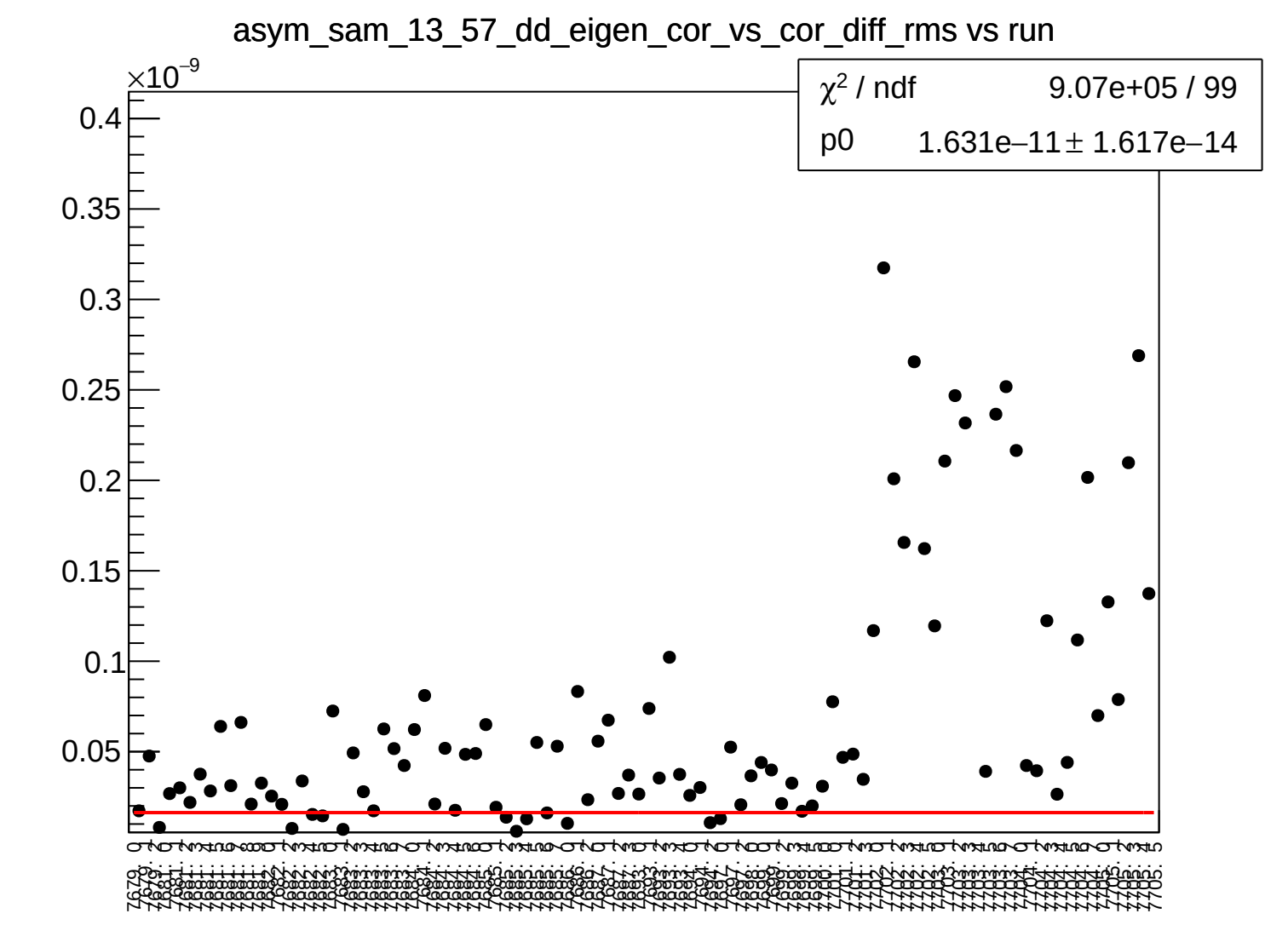

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.07 / 99
p0 0.03048 ± 0.0311
pull
Entries 100
Mean −24.87
Std Dev 0

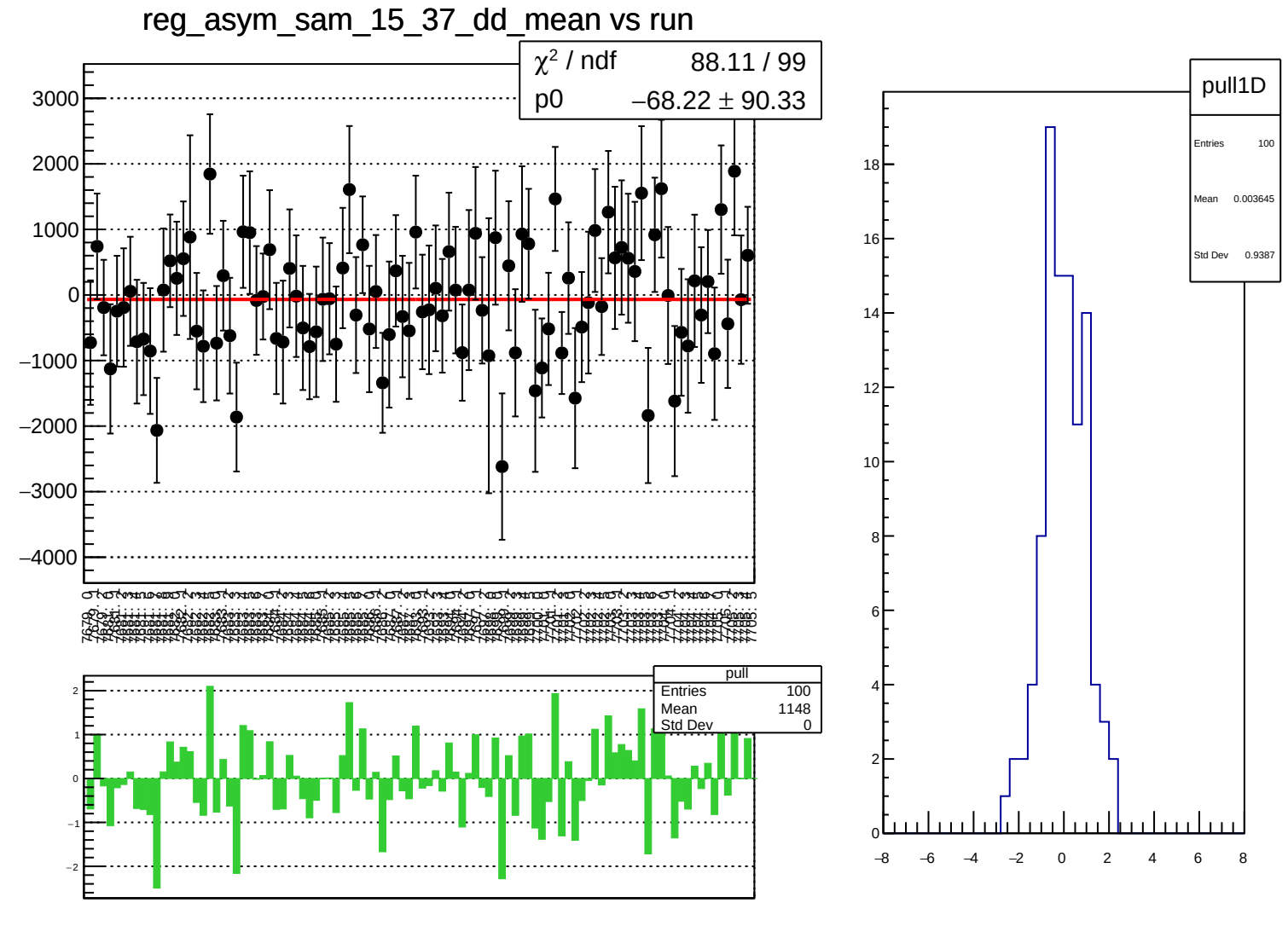

pull1D
Entries 100
Mean −0.07264
Std Dev 0.9775

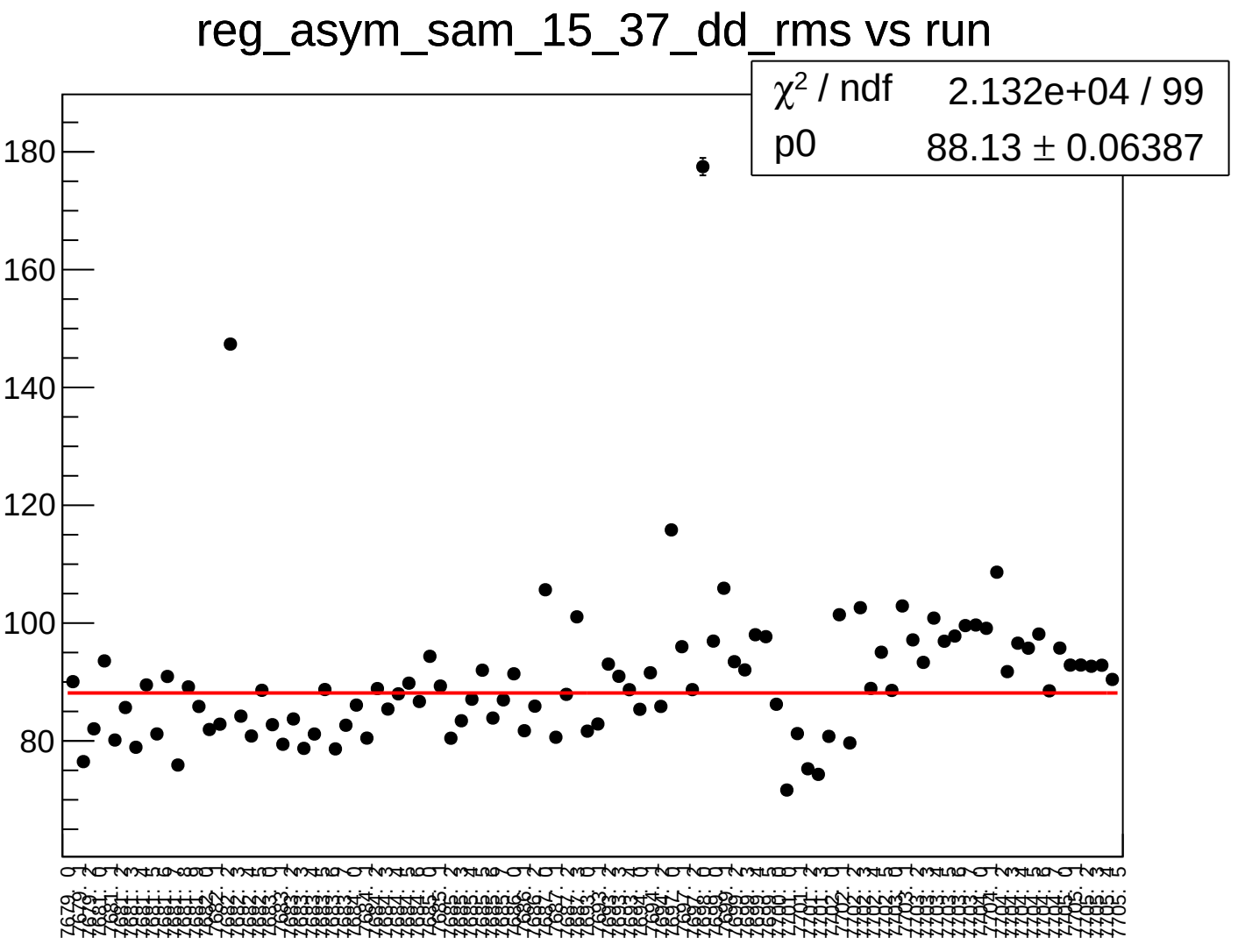

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.934e+05 / 99
p0 28.09 ± 0.02199
140
120
100
80
60
40
20

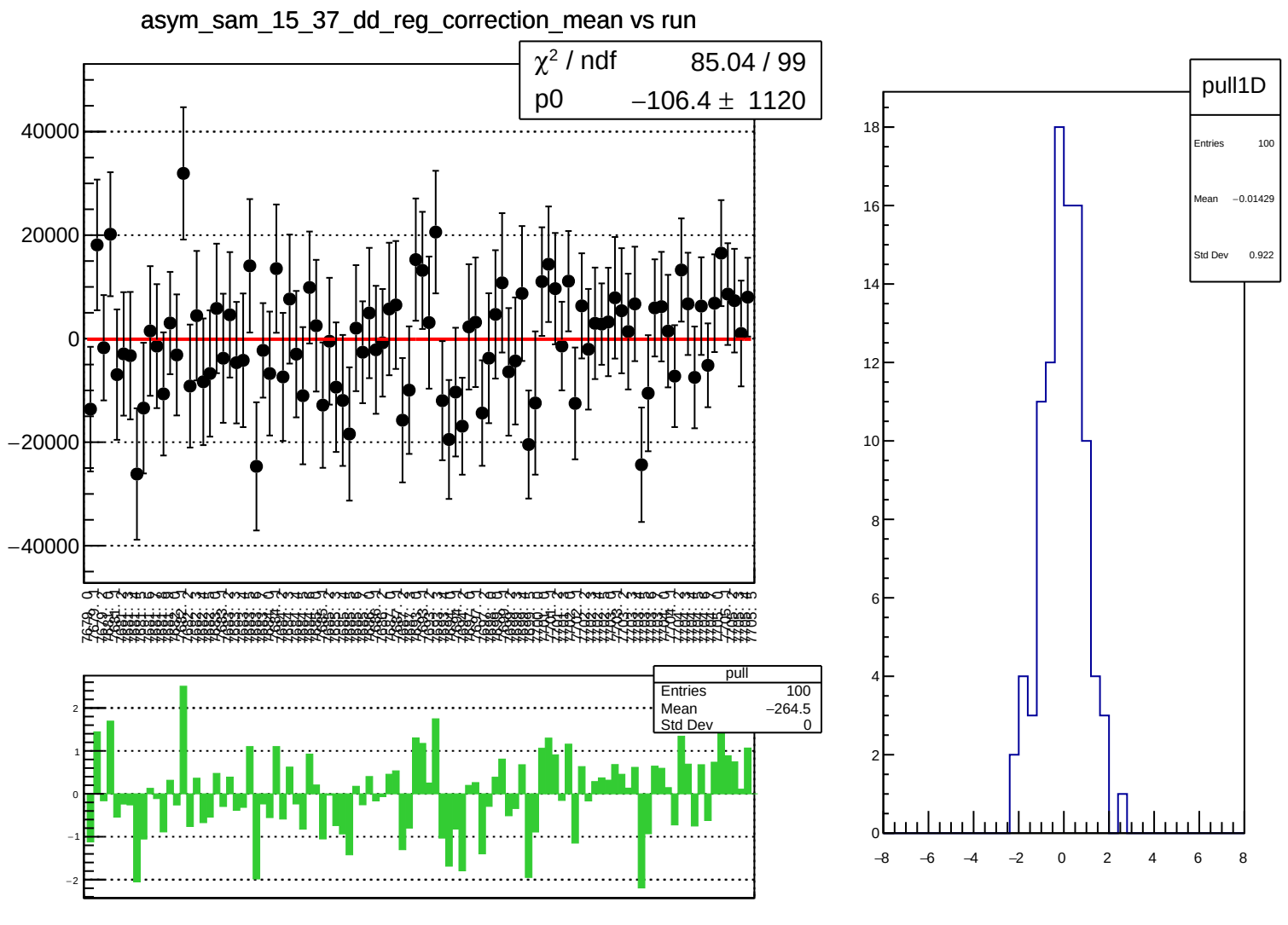

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 112.1 / 99
p0 −2.081e−14 ± 2.286e−14
pull
Entries 100
Mean −229.7
Std Dev 0

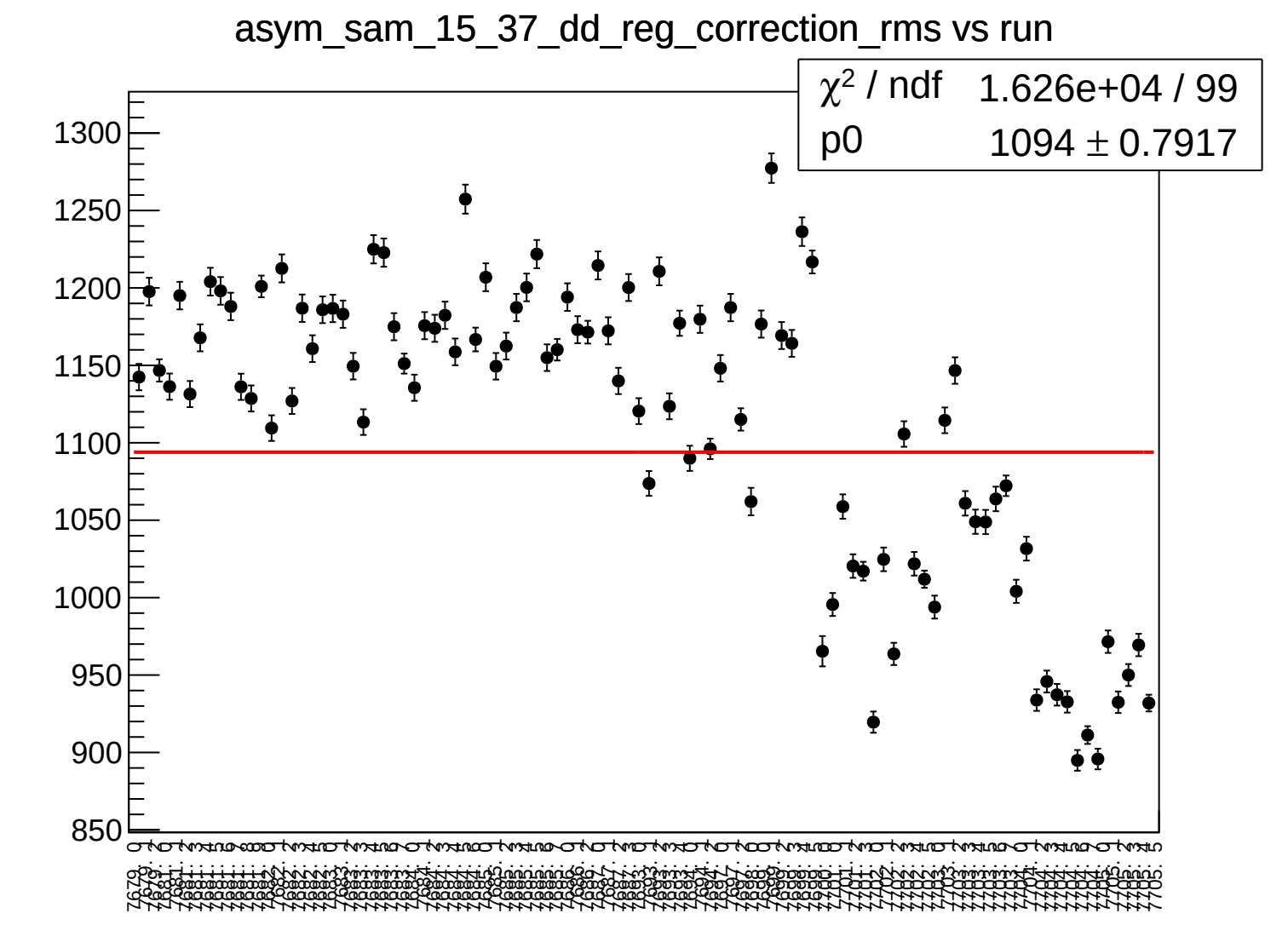

pull1D
Entries 100
Mean 0.01374
Std Dev 1.059

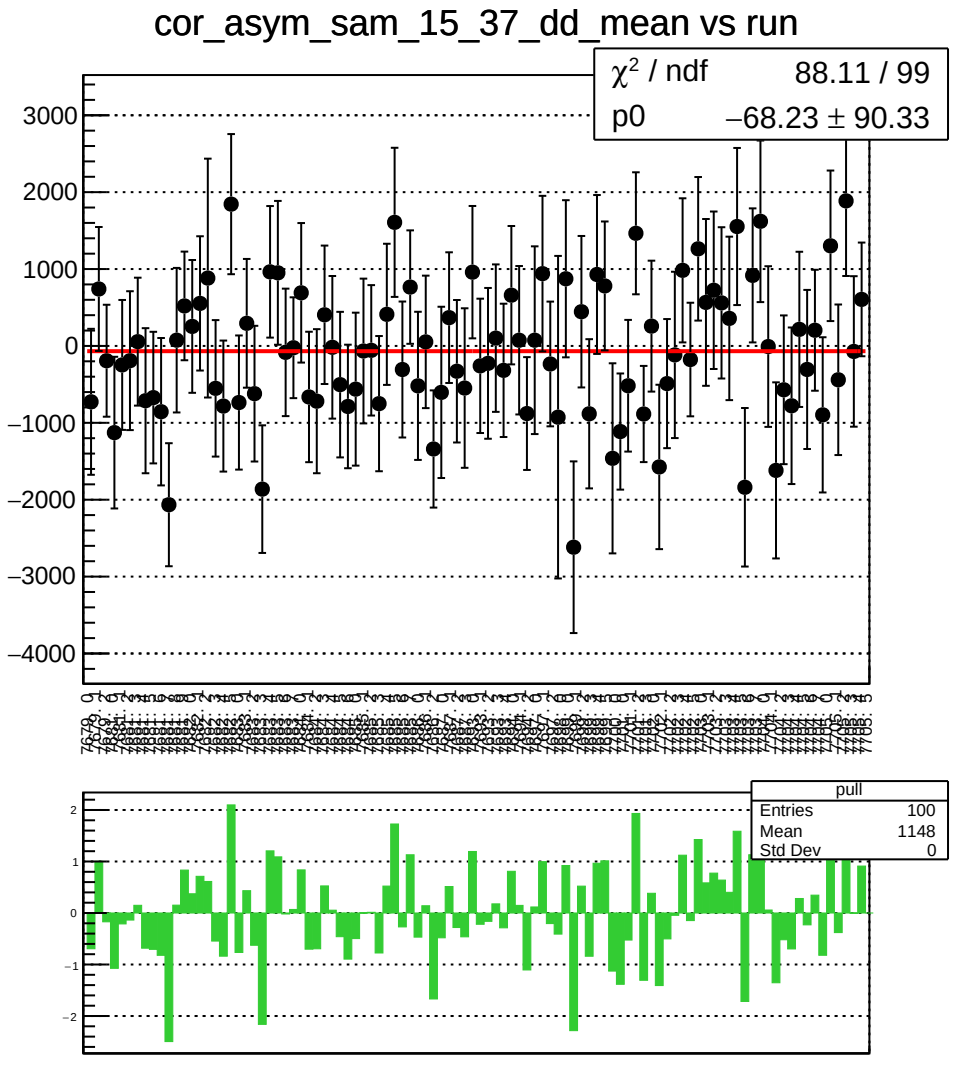

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 9.07e+05 / 99
p0 1.631e−11 ± 1.617e−14

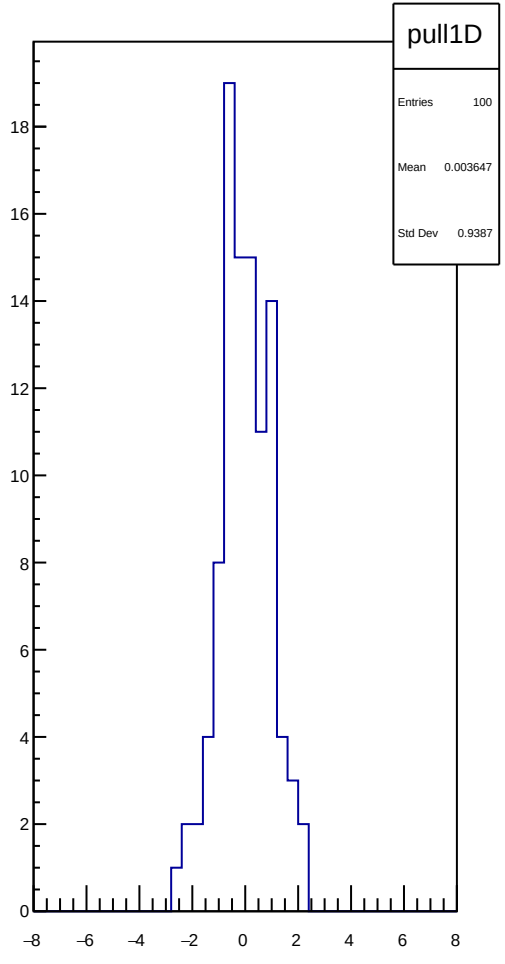

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 88.11 / 99
p0 −68.22 ± 90.33
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 100
Mean 1148
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.003645
Std Dev 0.9387
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.132e+04 / 99
p0 88.13 ± 0.06387
180
160
140
120
100
80


asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 85.04 / 99
p0 −106.4 ± 1120
40000
20000
0
−20000
−40000
pull
Entries 100
Mean −264.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.01429
Std Dev 0.922
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 1.626e+04 / 99
p0 1094 ± 0.7917
1300
1250
1200
1150
1100
1050
1000
950
900
850


cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 88.11 / 99
p0 −68.23 ± 90.33
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 100
Mean 1148
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 100
Mean 0.003647
Std Dev 0.9387
18
16
14
12
10
8
6
4
2
0
−8
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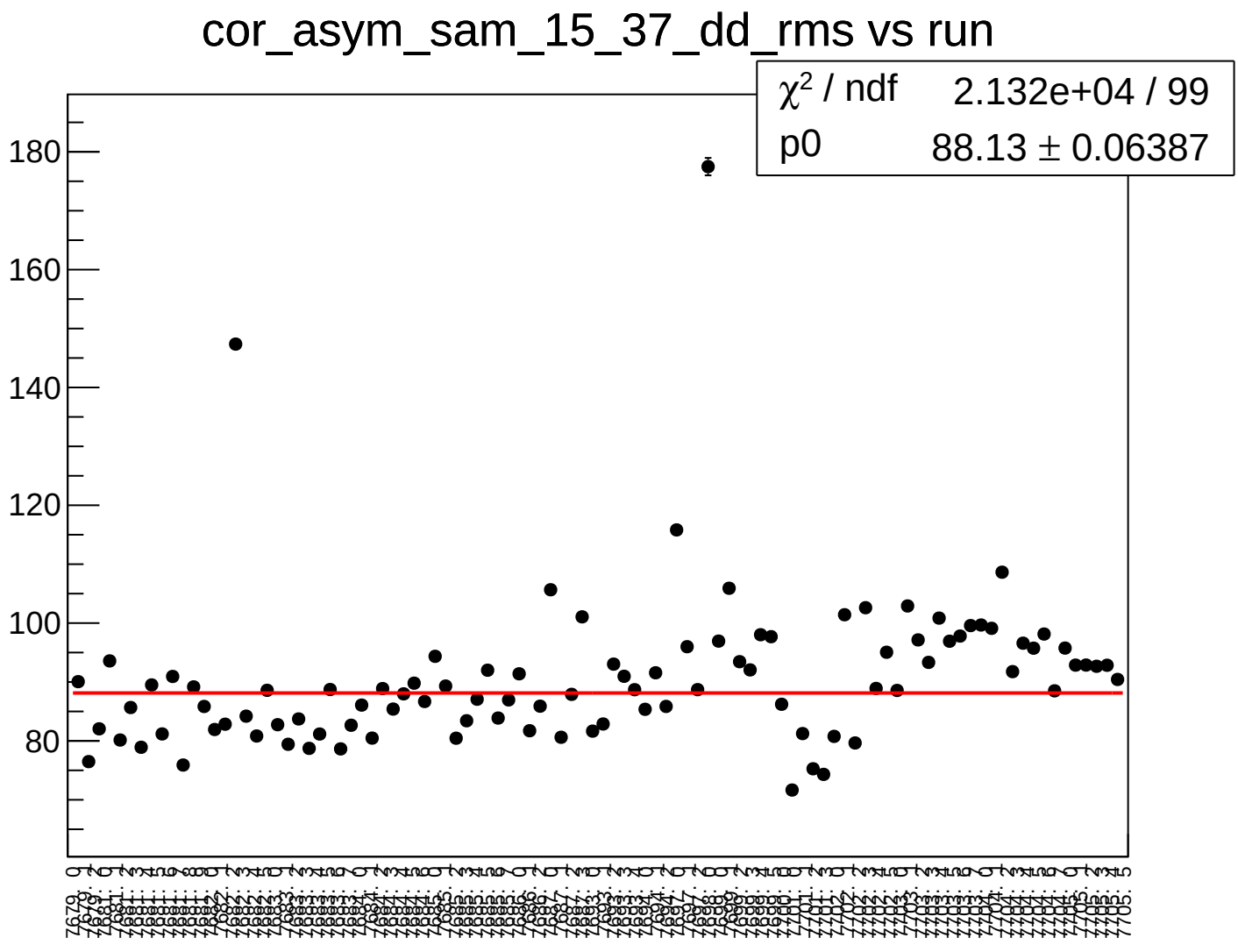
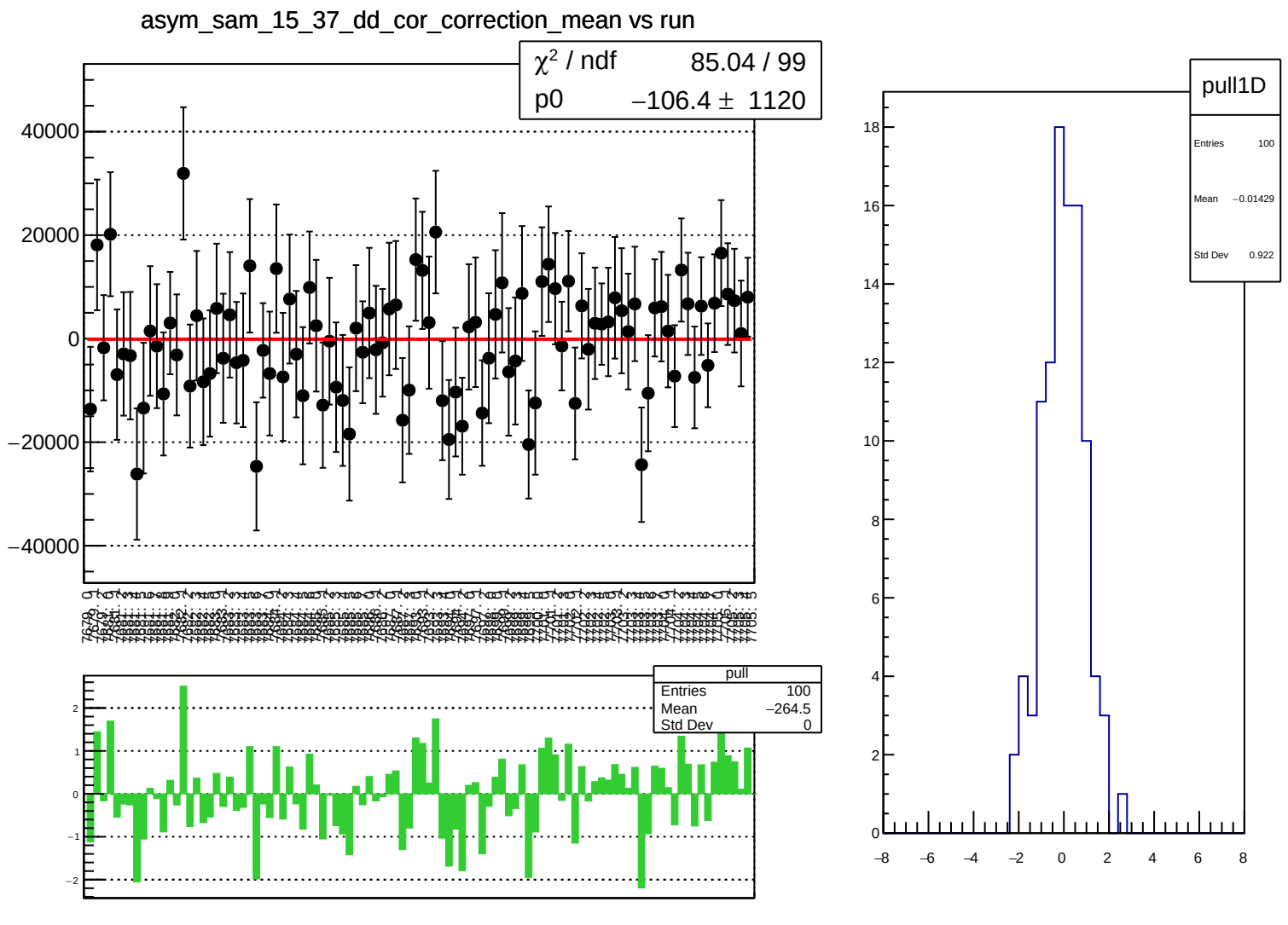
2
4
6
8


cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.132e+04 / 99
p0 88.13 ± 0.06387
180
160
140
120
100
80


asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 85.04 / 99
p0 −106.4 ± 1120
40000
20000
0
−20000
−40000
pull
Entries 100
Mean −264.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.01429
Std Dev 0.922
18
16
14
12
10
8
6
4
2
0
−8
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−4
−2
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2
4
6
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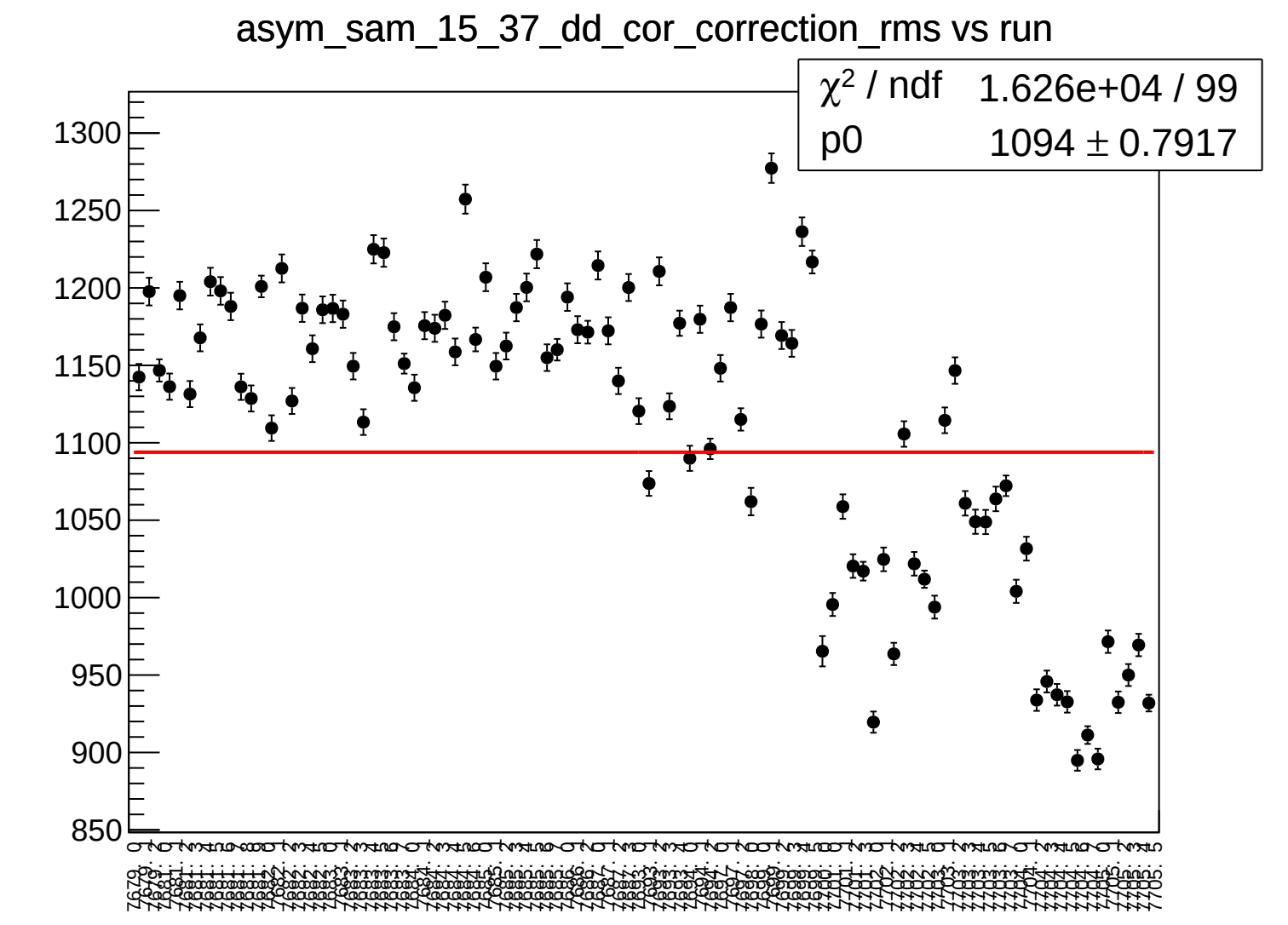
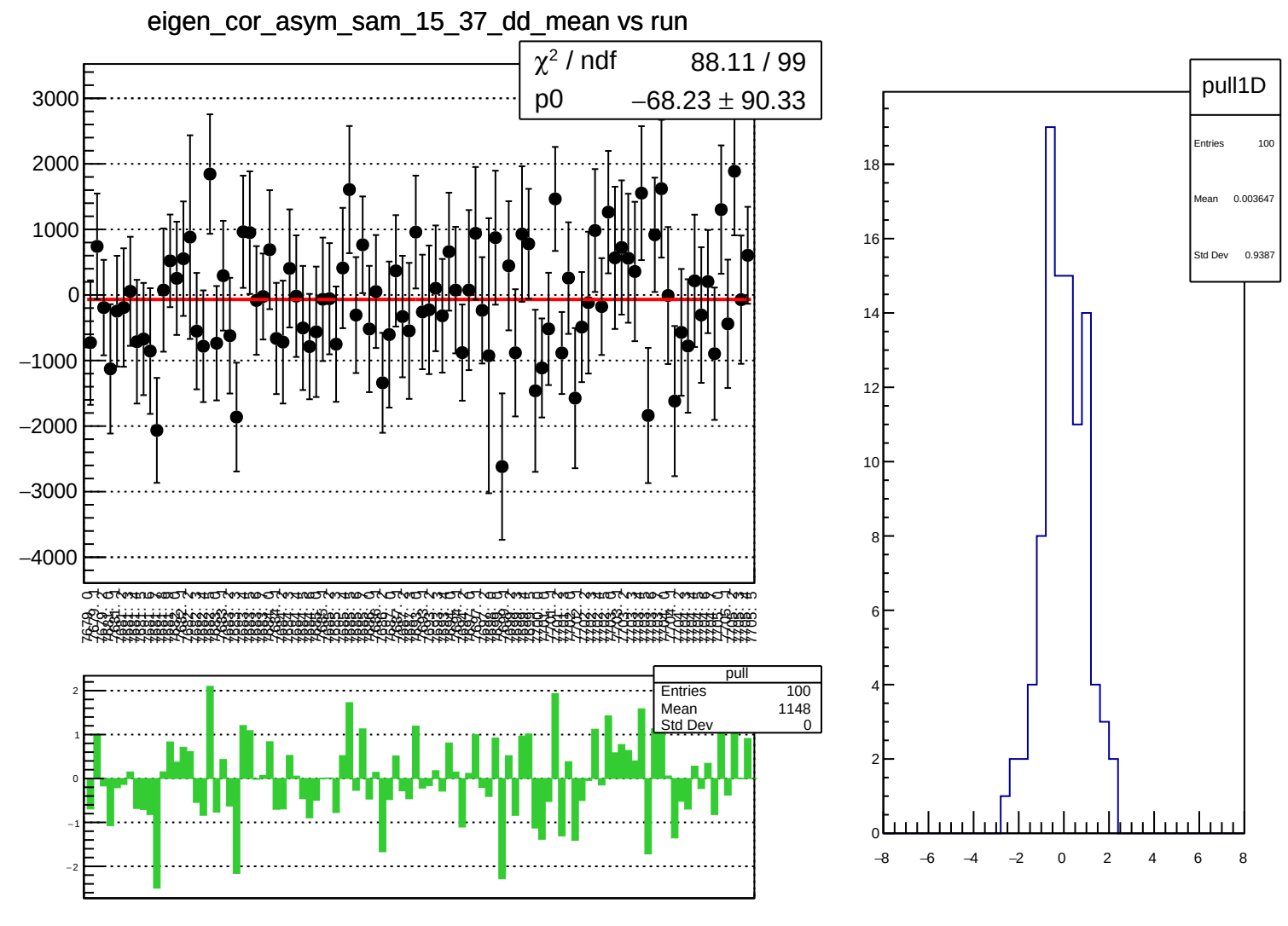

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 1.626e+04 / 99
p0 1094 ± 0.7917
1300
1250
1200
1150
1100
1050
1000
950
900
850


eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 88.11 / 99
p0 −68.23 ± 90.33
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 100
Mean 1148
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.003647
Std Dev 0.9387
18
16
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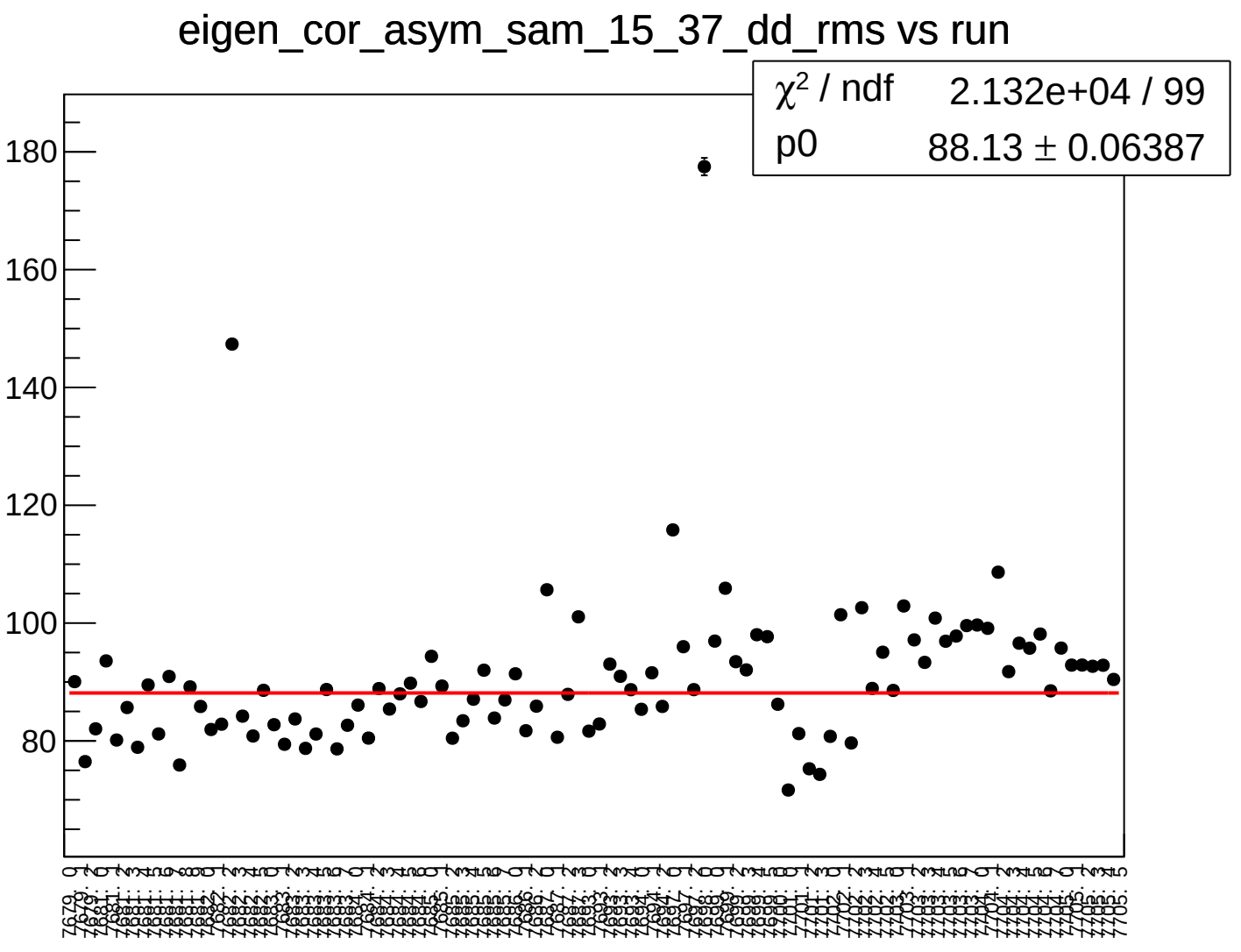
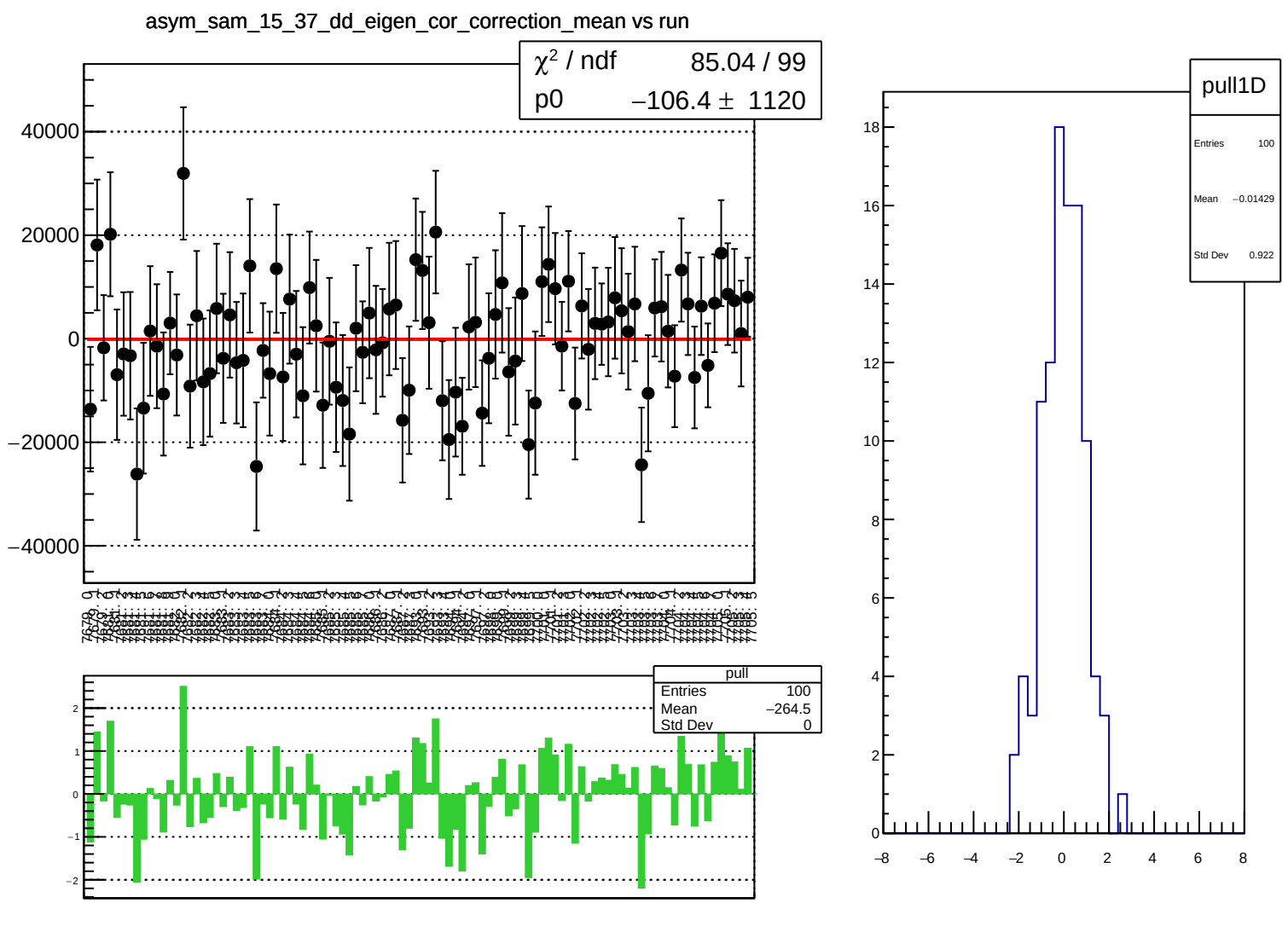
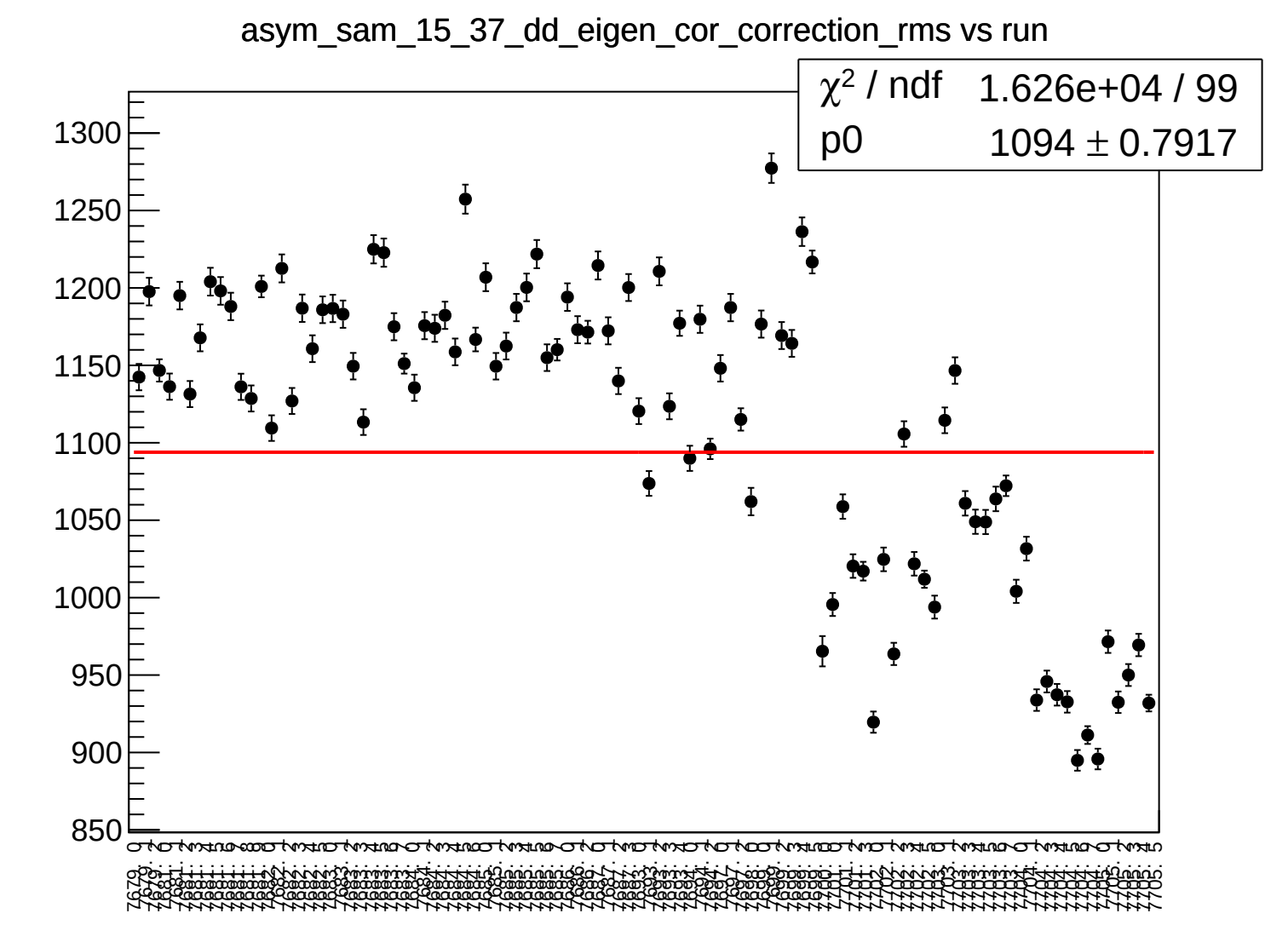
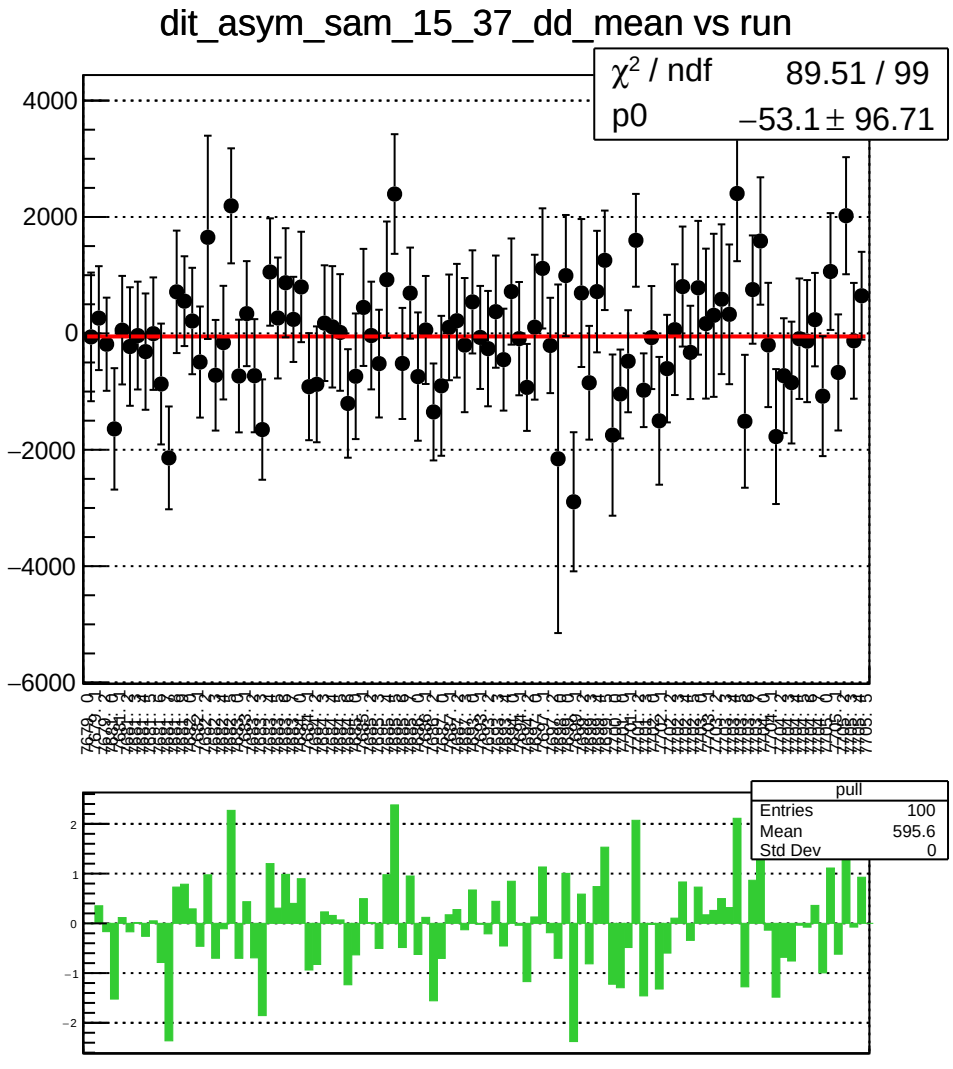
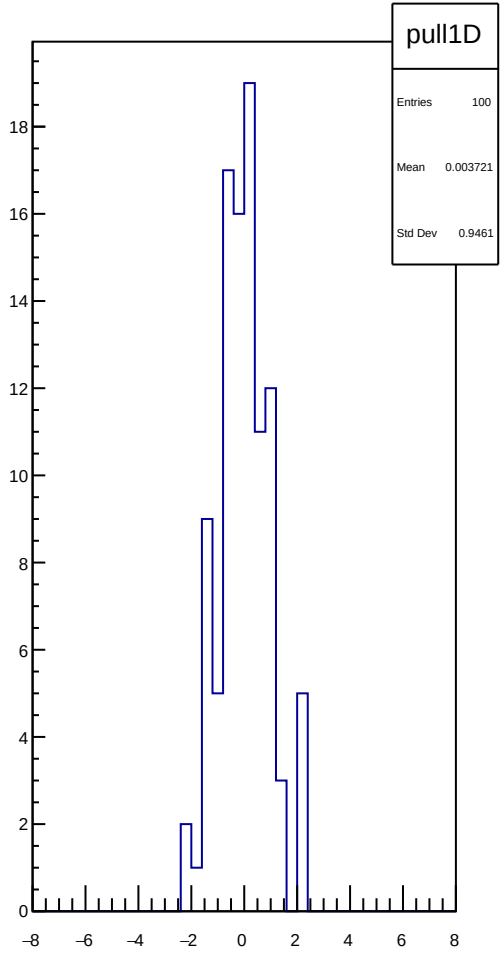
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

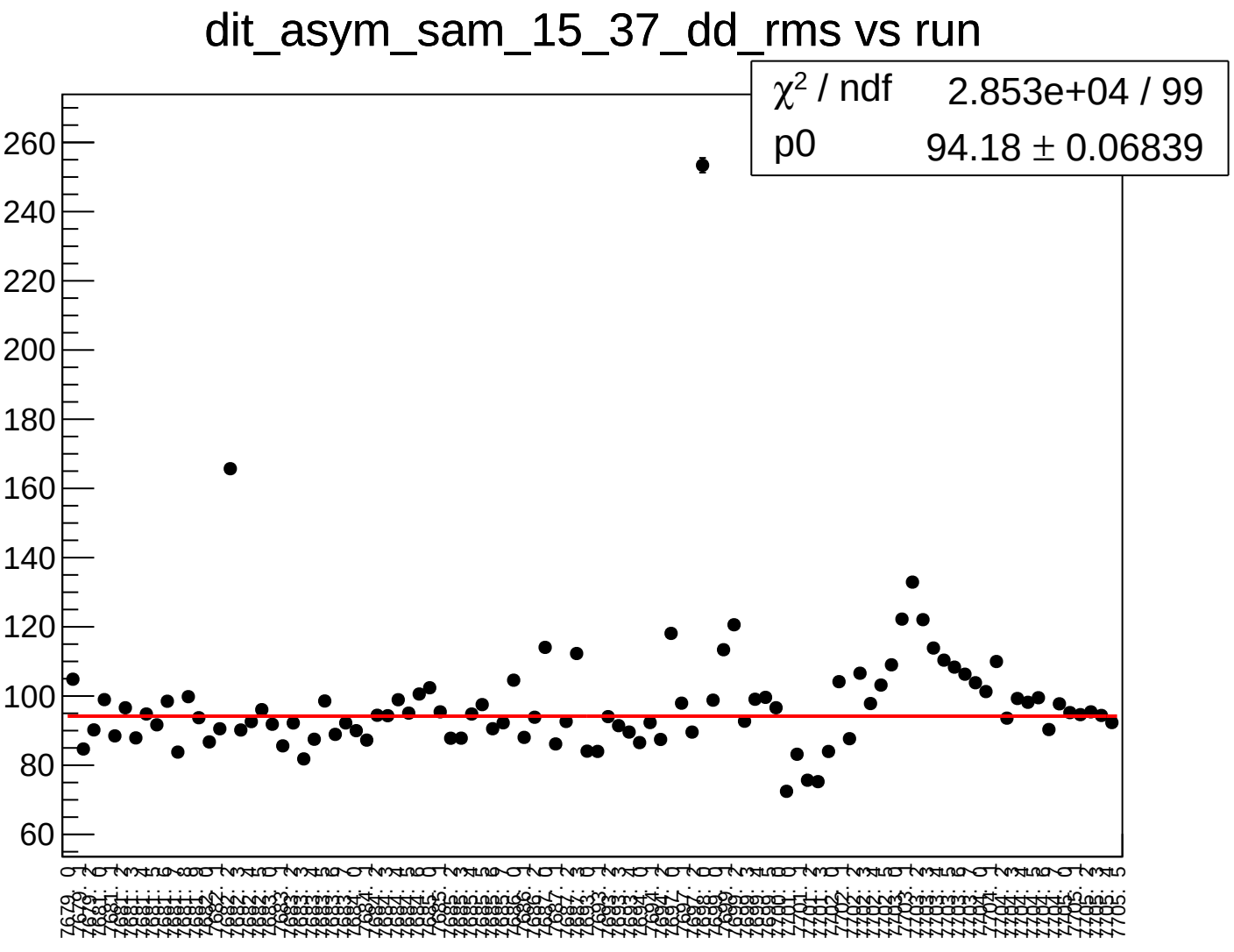

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.132e+04 / 99
p0 88.13 ± 0.06387
180
160
140
120
100
80

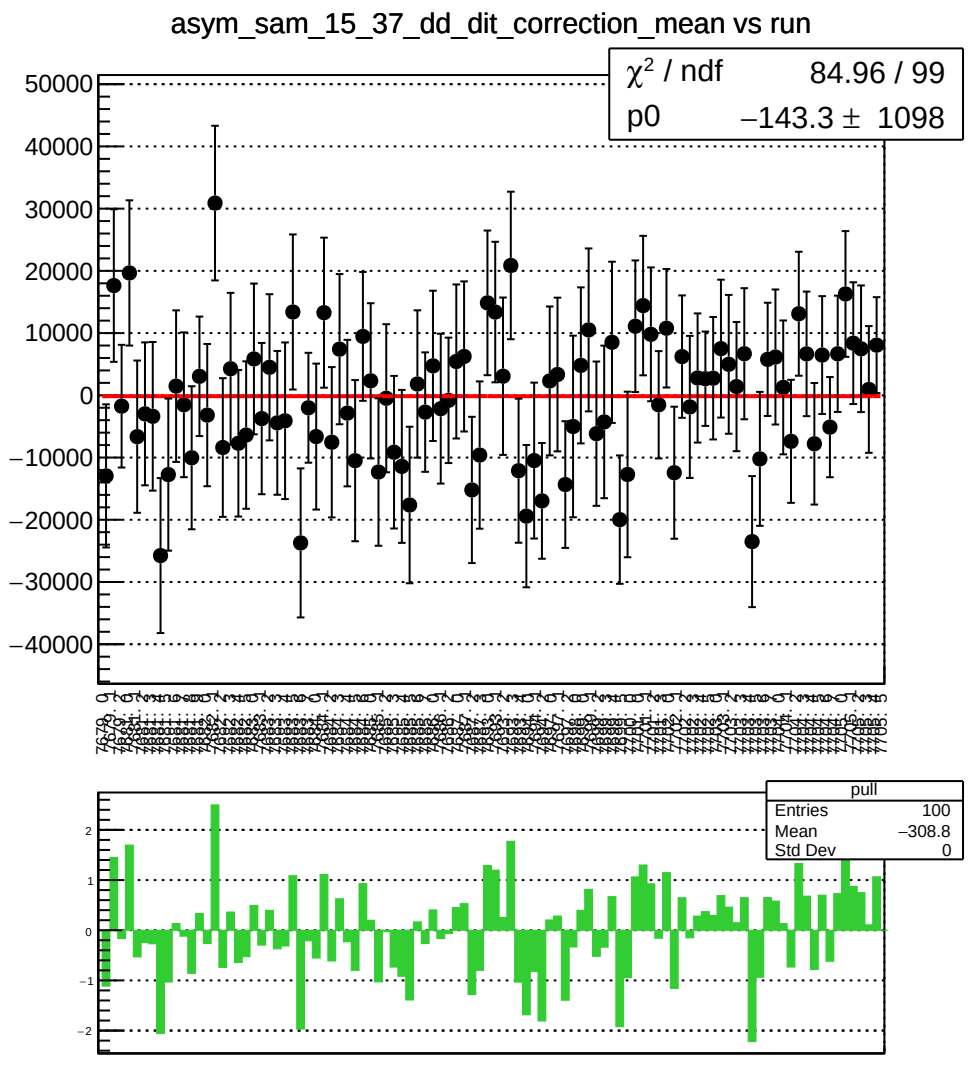

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 85.04 / 99
p0 −106.4 ± 1120
40000
20000
0
−20000
−40000
pull
Entries 100
Mean −264.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.01429
Std Dev 0.922
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

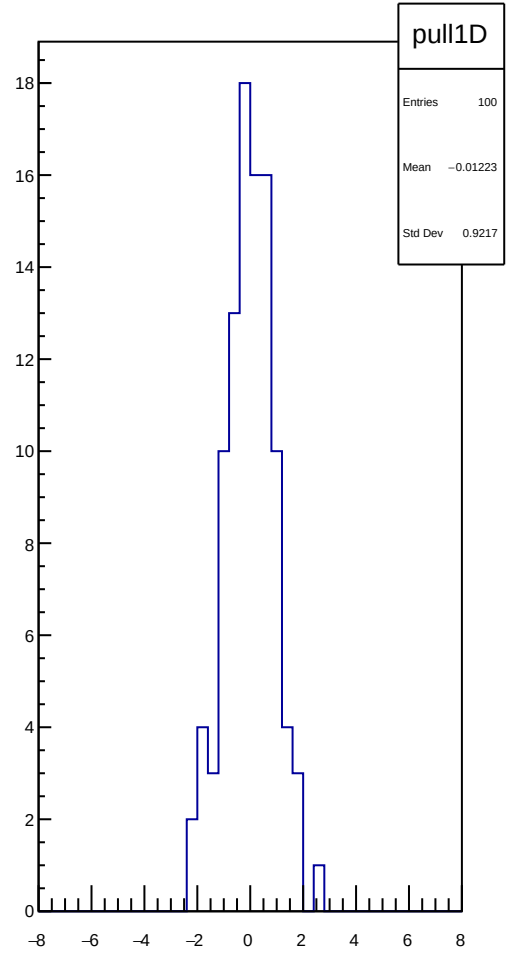

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.626e+04 / 99
p0 1094 ± 0.7917
1300
1250
1200
1150
1100
1050
1000
950
900
850

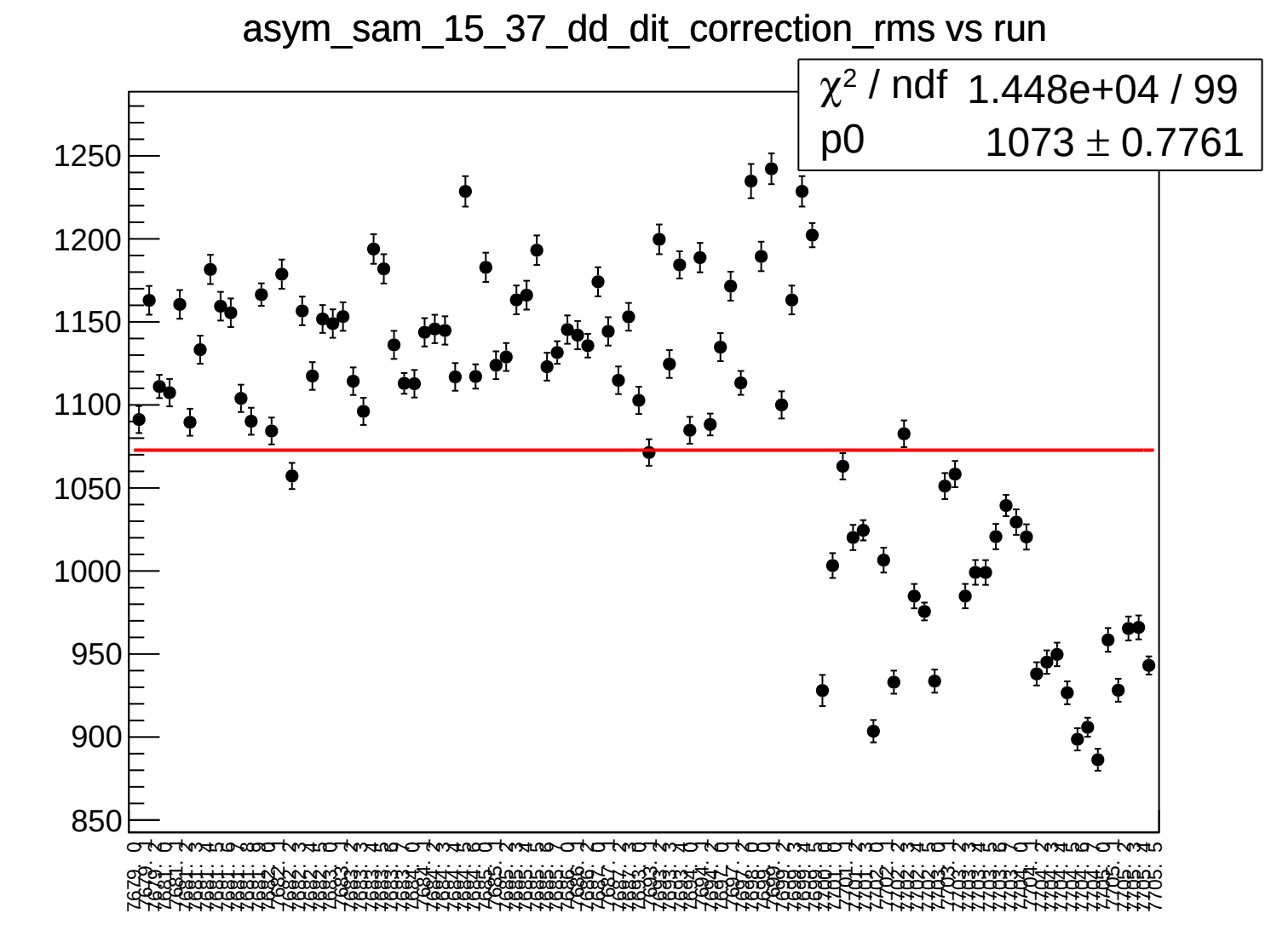

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 89.51 / 99
p0 −53.1 ± 96.71
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 595.6
Std Dev 0
2
1
0
−1
−2

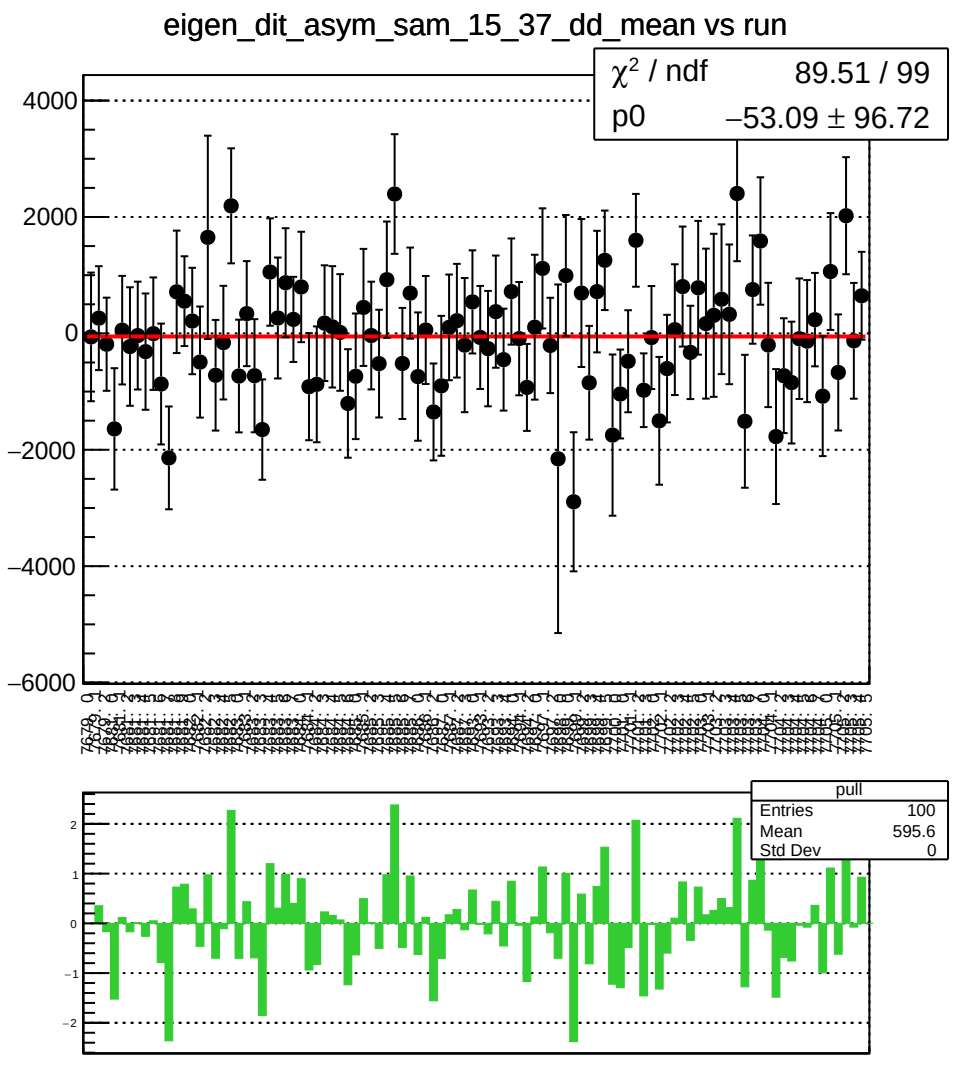

pull1D
Entries 100
Mean 0.003721
Std Dev 0.9461
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

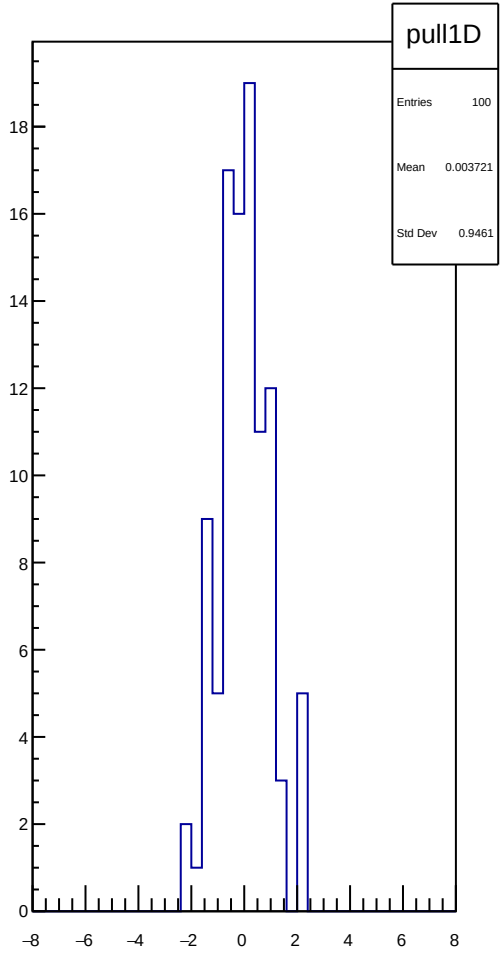

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.853e+04 / 99
p0 94.18 ± 0.06839
260
240
220
200
180
160
140
120
100
80
60

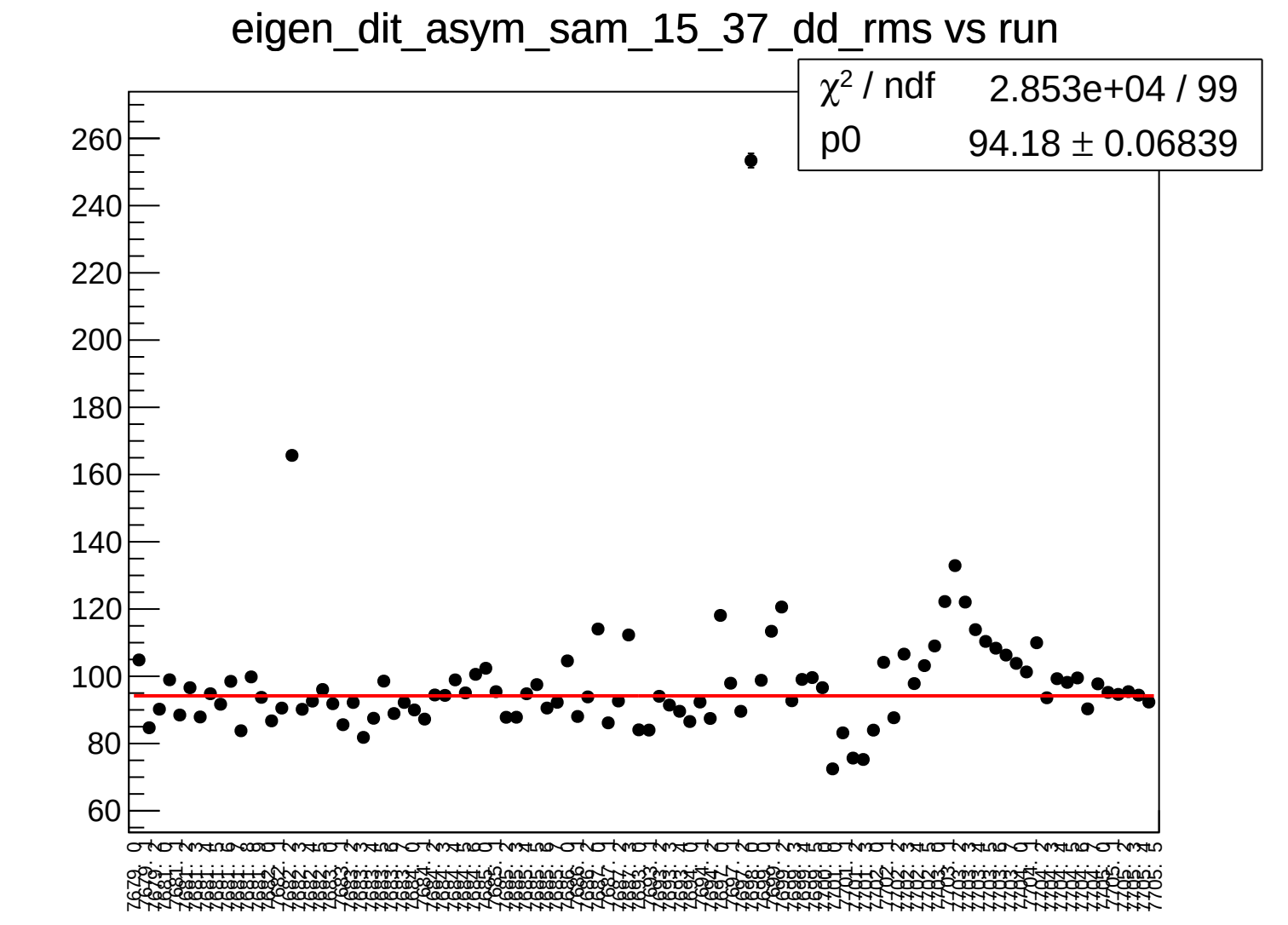

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 84.96 / 99
p0 −143.3 ± 1098
pull
Entries 100
Mean −308.8
Std Dev 0

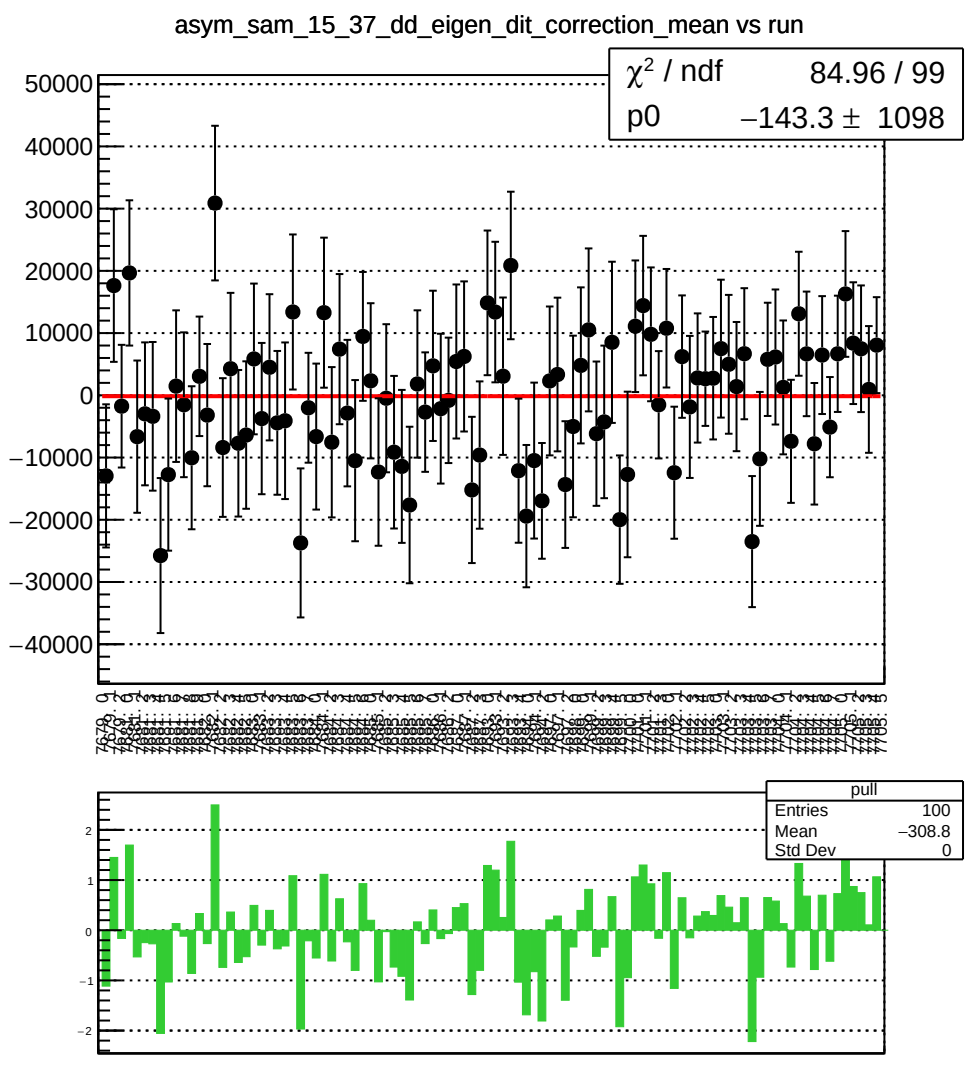

pull1D
Entries 100
Mean −0.01223
Std Dev 0.9217

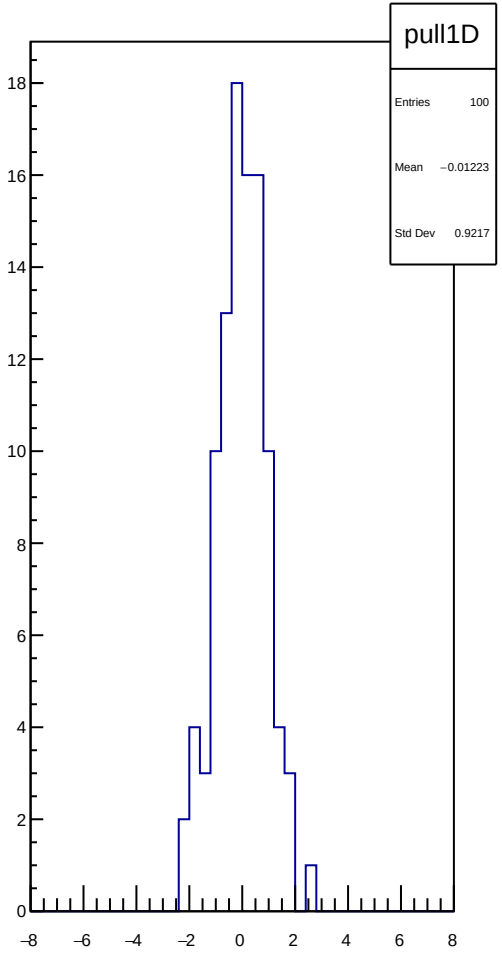

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 1.448e+04 / 99
p0 1073 ± 0.7761
1250
1200
1150
1100
1050
1000
950
900
850

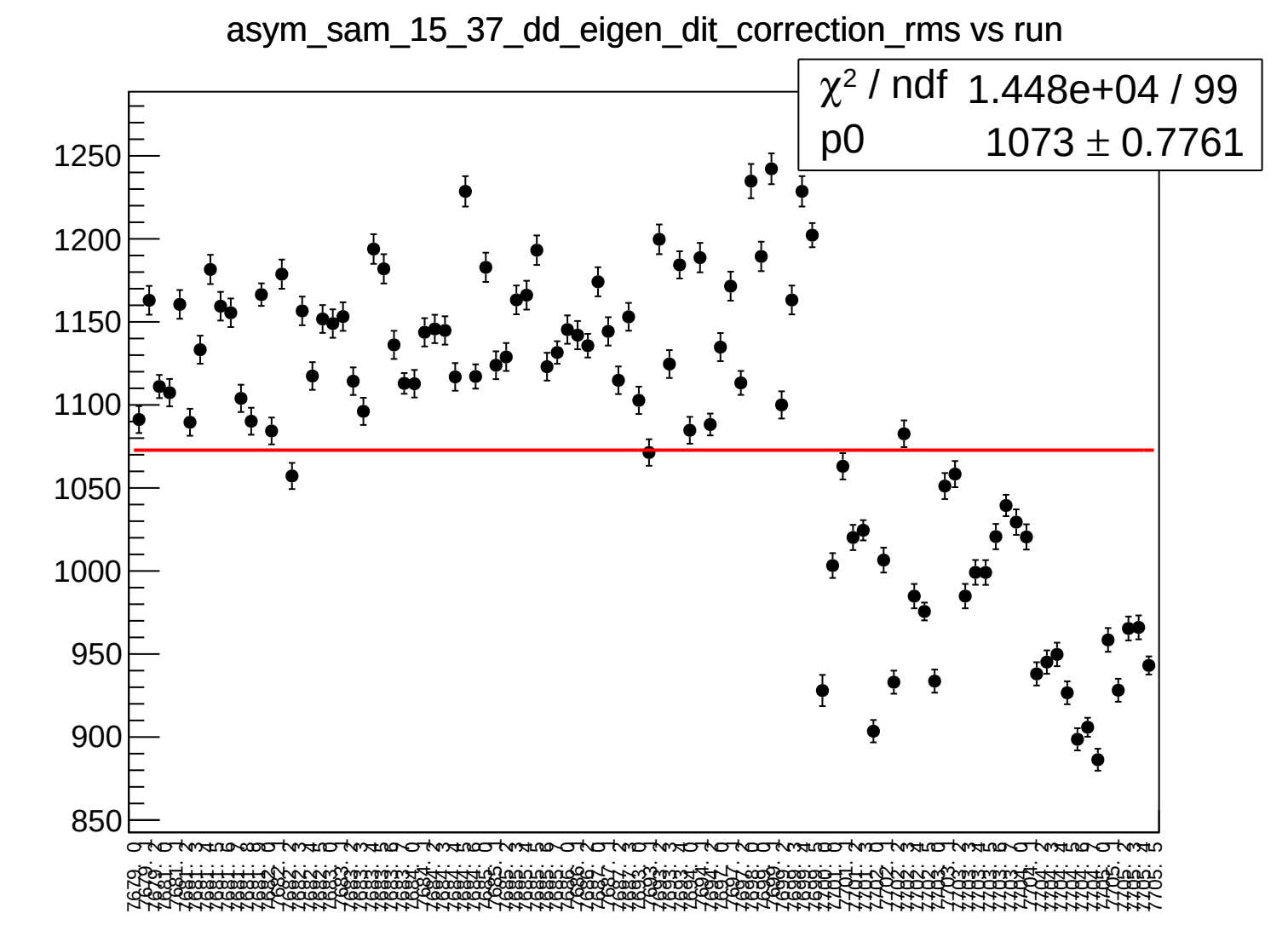

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 89.51 / 99
p0 −53.09 ± 96.72
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 595.6
Std Dev 0
2
1
0
−1
−2

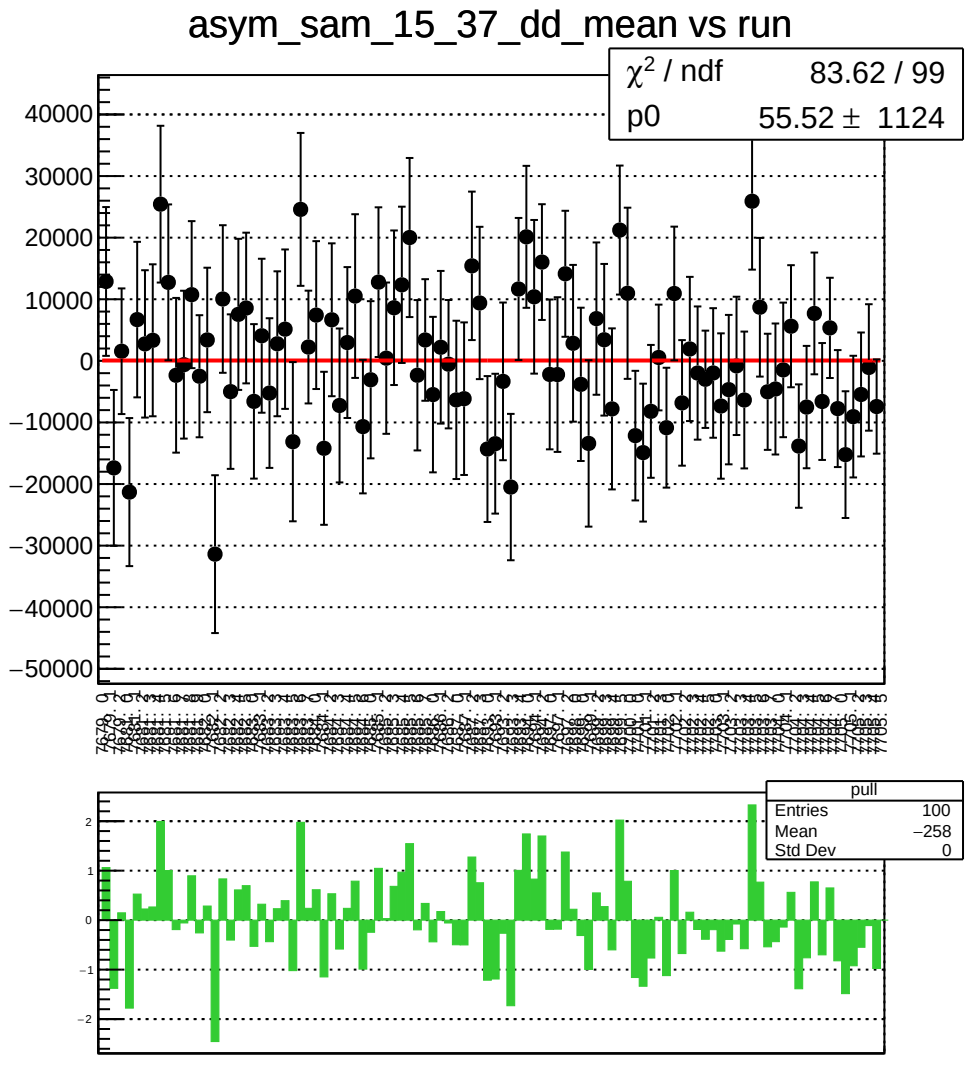

pull1D
Entries 100
Mean 0.003721
Std Dev 0.9461
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

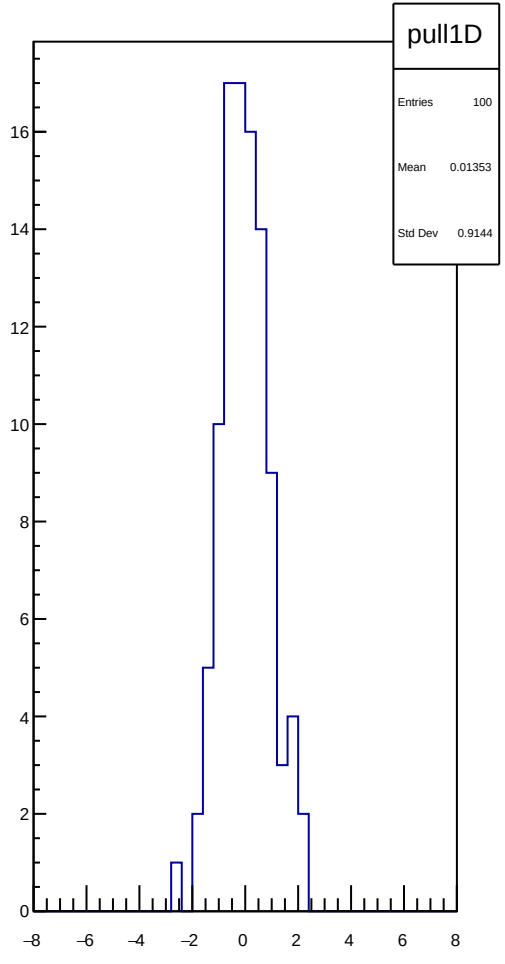

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.853e+04 / 99
p0 94.18 ± 0.06839
260
240
220
200
180
160
140
120
100
80
60

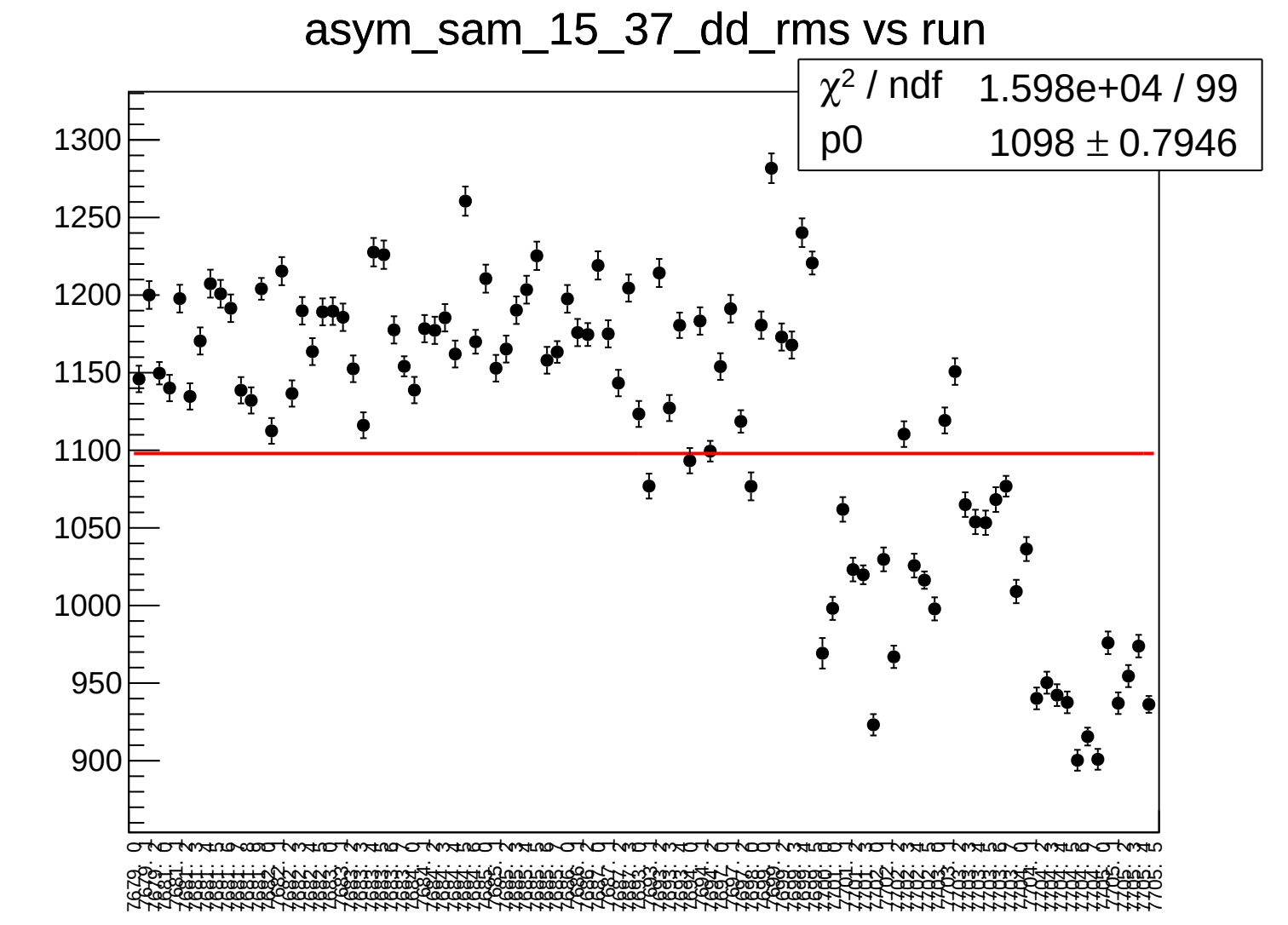

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 84.96 / 99
p0 −143.3 ± 1098
pull
Entries 100
Mean −308.8
Std Dev 0

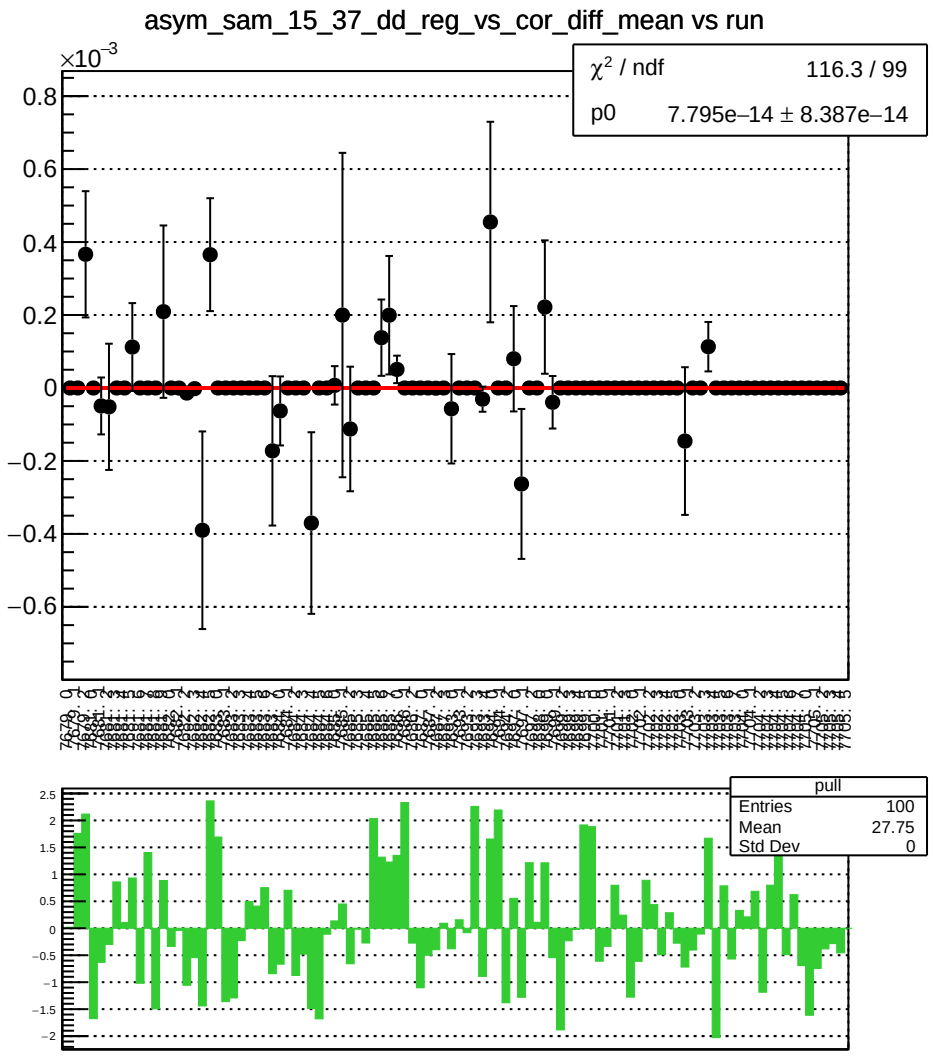

pull1D
Entries 100
Mean −0.01223
Std Dev 0.9217

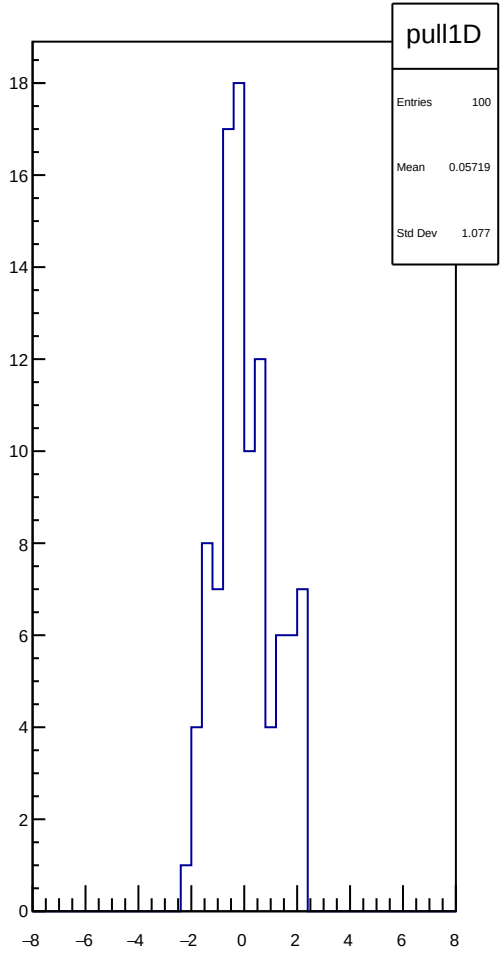

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.448e+04 / 99
p0 1073 ± 0.7761
1250
1200
1150
1100
1050
1000
950
900
850

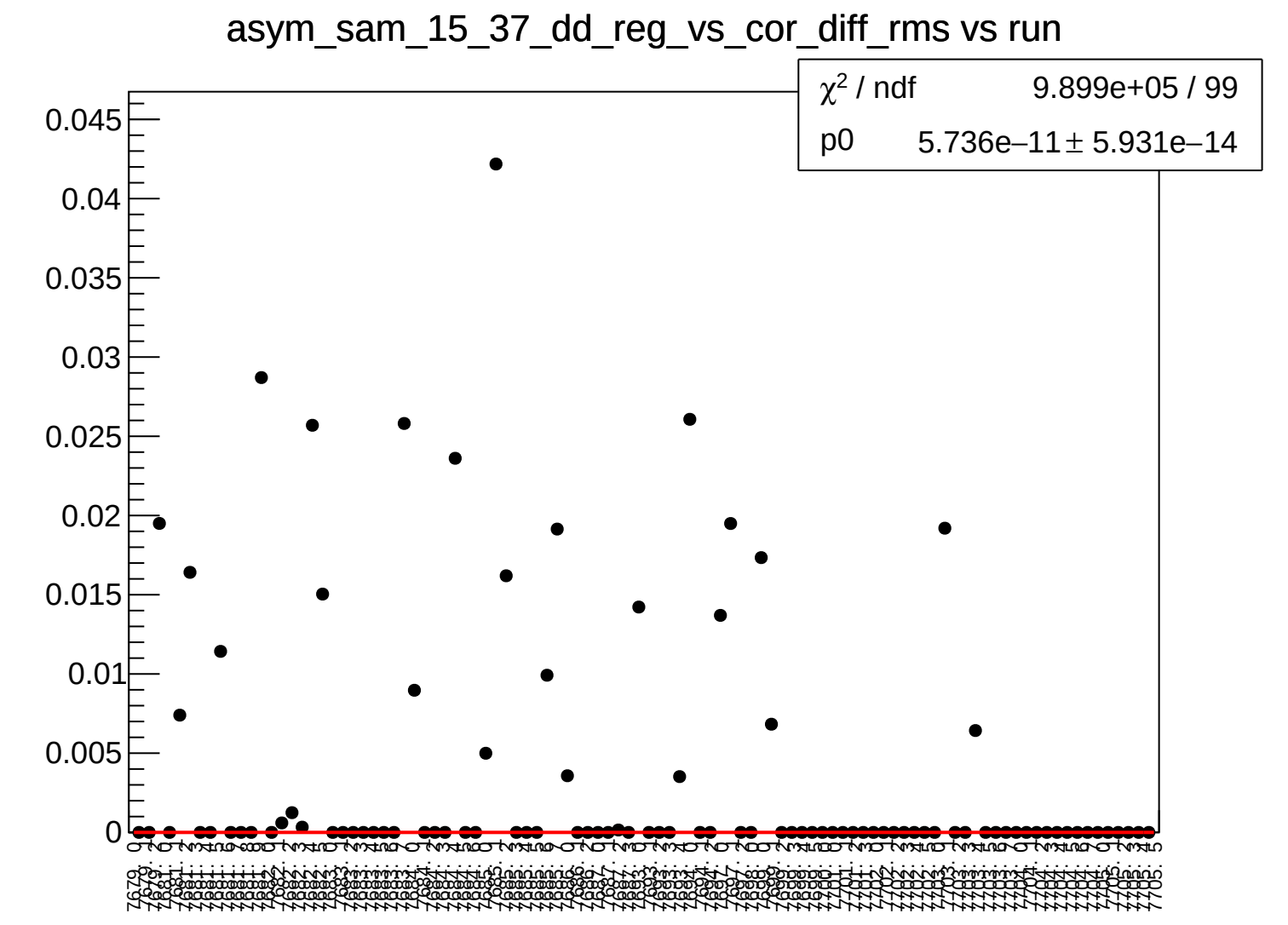

asym_sam_15_37_dd_mean vs run
χ² / ndf 83.62 / 99
p0 55.52 ± 1124
pull
Entries 100
Mean −258
Std Dev 0

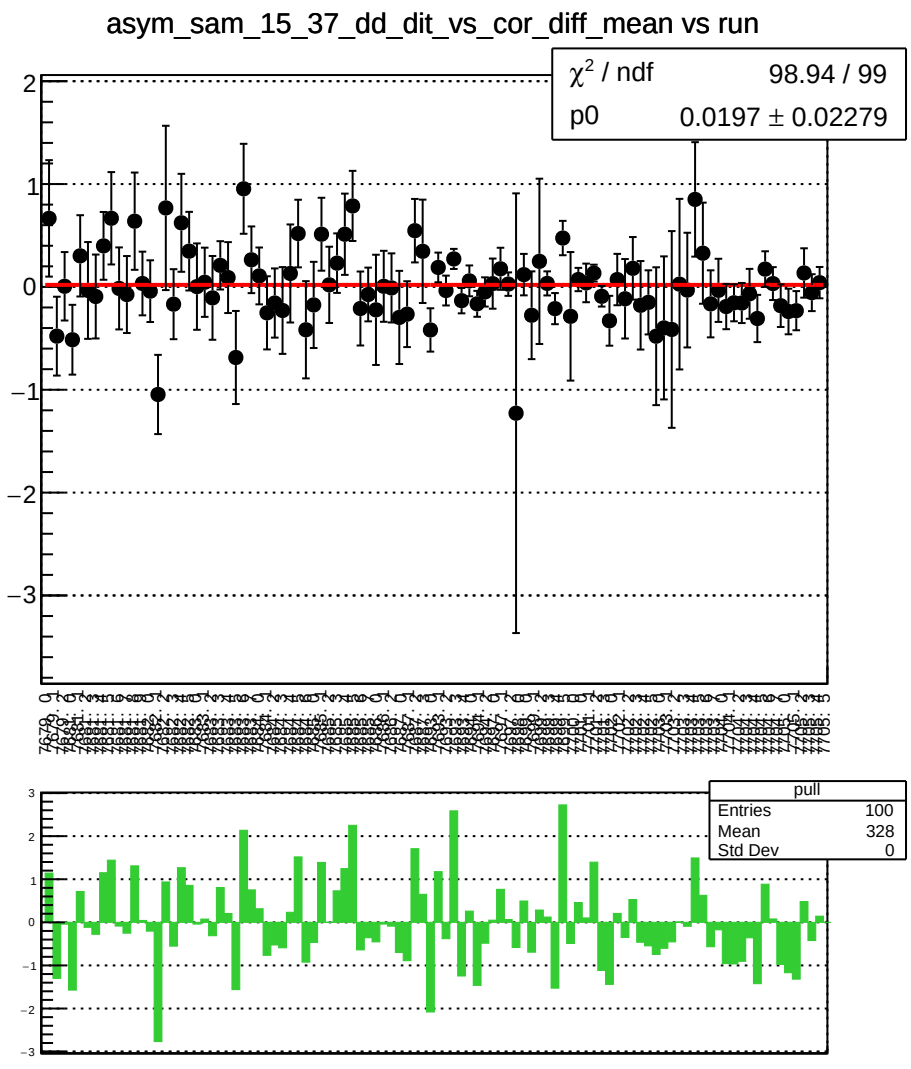

pull1D
Entries 100
Mean 0.01353
Std Dev 0.9144

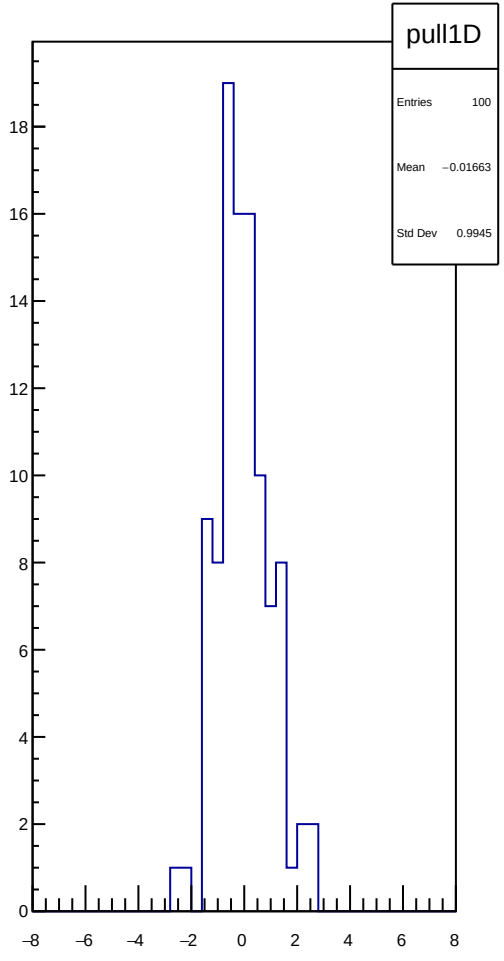

asym_sam_15_37_dd_rms vs run
χ² / ndf 1.598e+04 / 99
p0 1098 ± 0.7946
1300
1250
1200
1150
1100
1050
1000
950
900

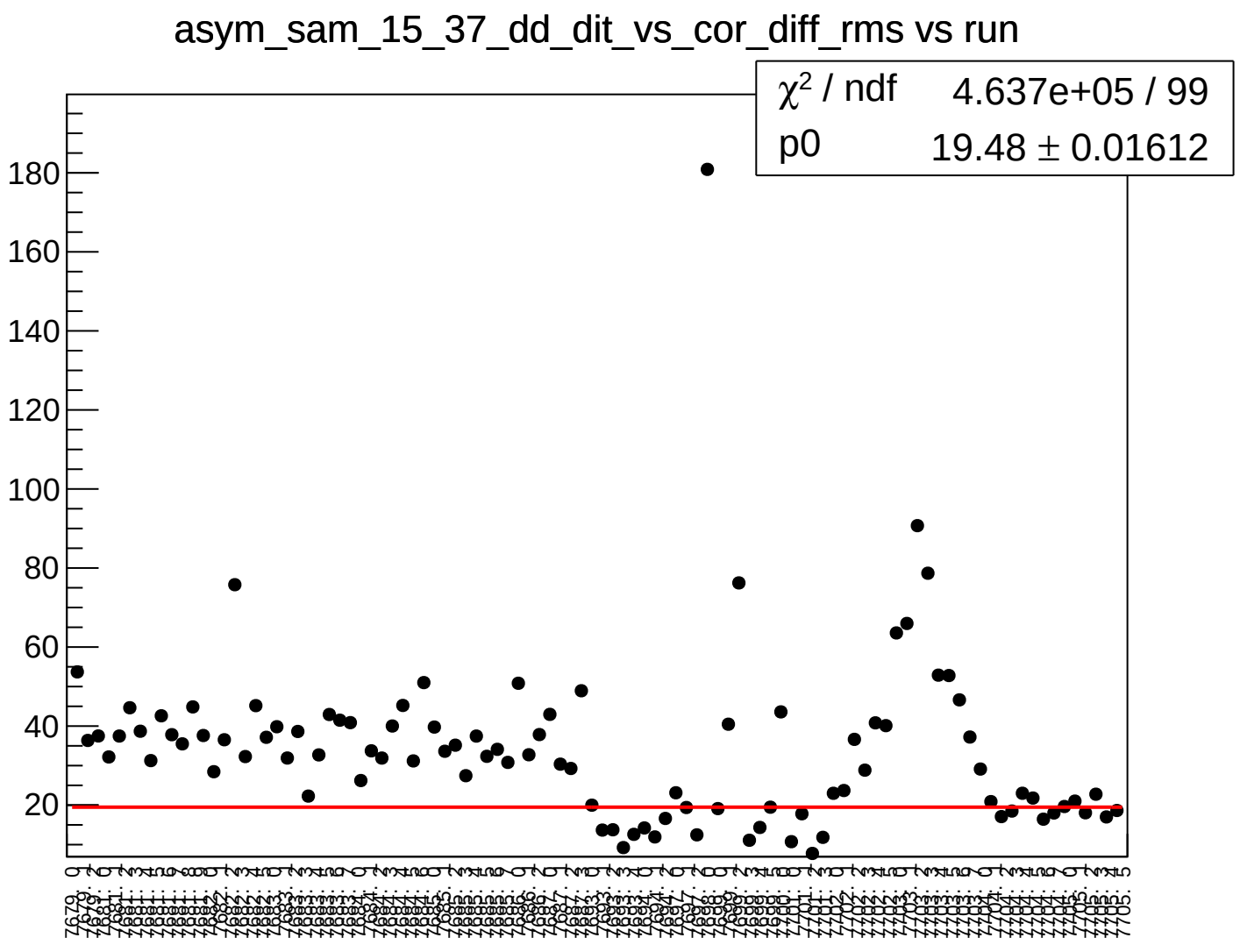

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 116.3 / 99
p0 7.795e−14 ± 8.387e−14
pull
Entries 100
Mean 27.75
Std Dev 0

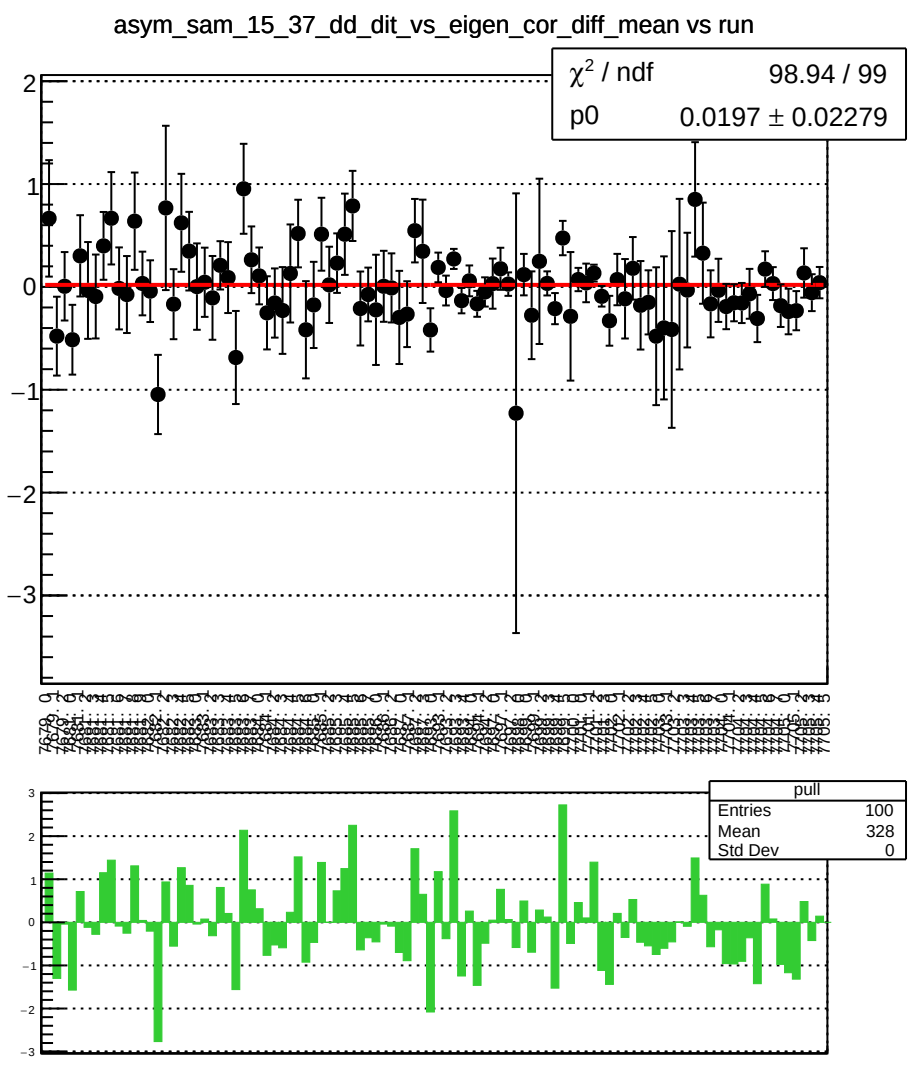

pull1D
Entries 100
Mean 0.05719
Std Dev 1.077

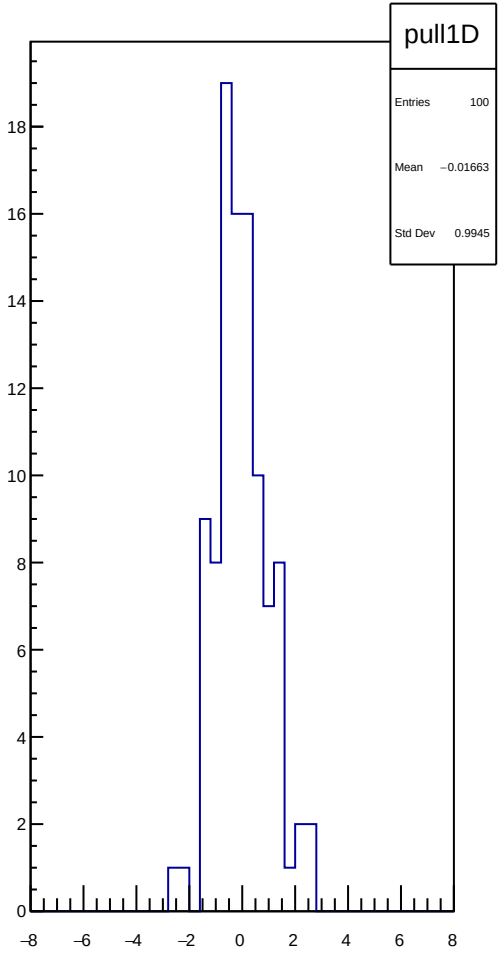

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.899e+05 / 99
p0 5.736e−11 ± 5.931e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

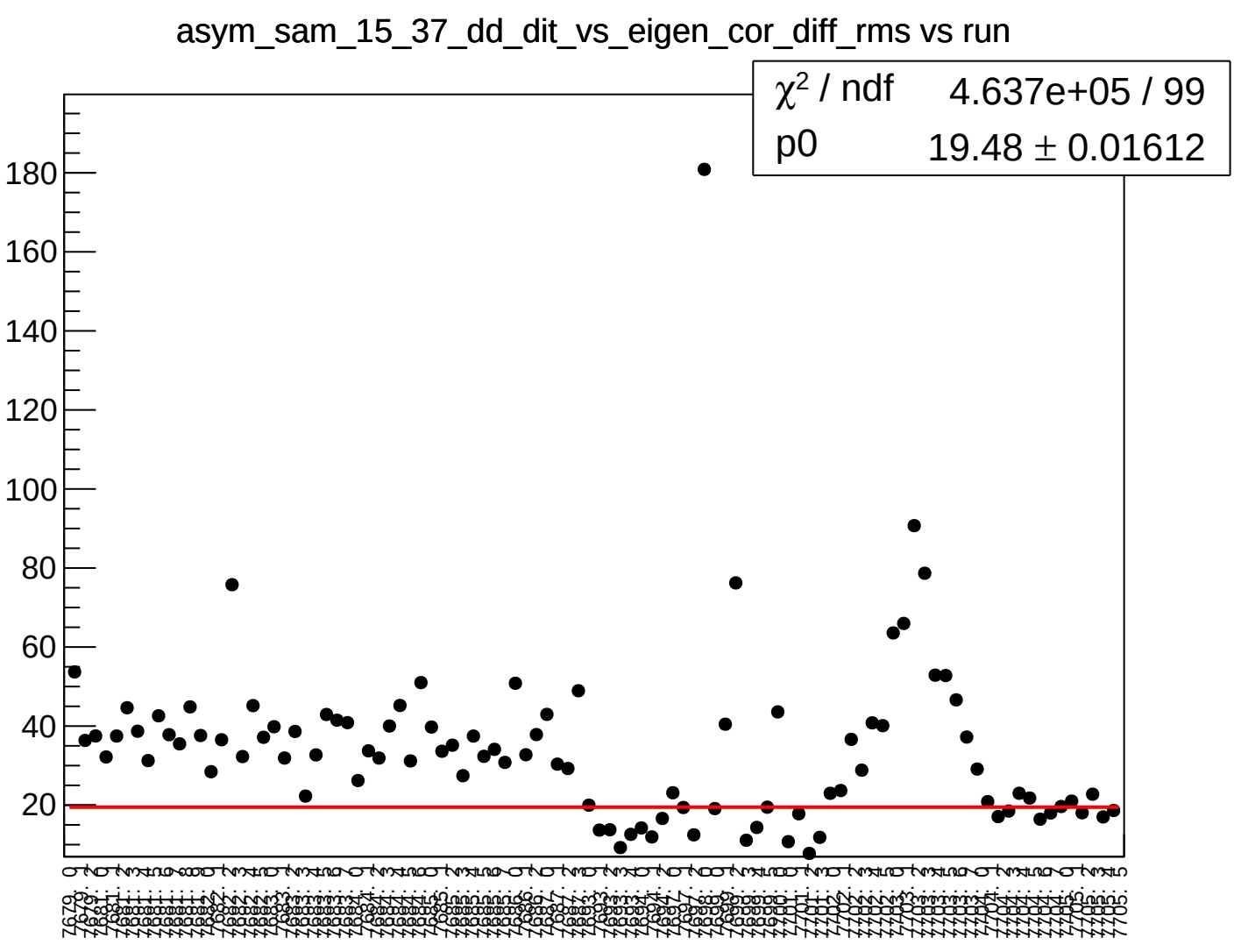

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 98.94 / 99
p0 0.0197 ± 0.02279
pull
Entries 100
Mean 328
Std Dev 0

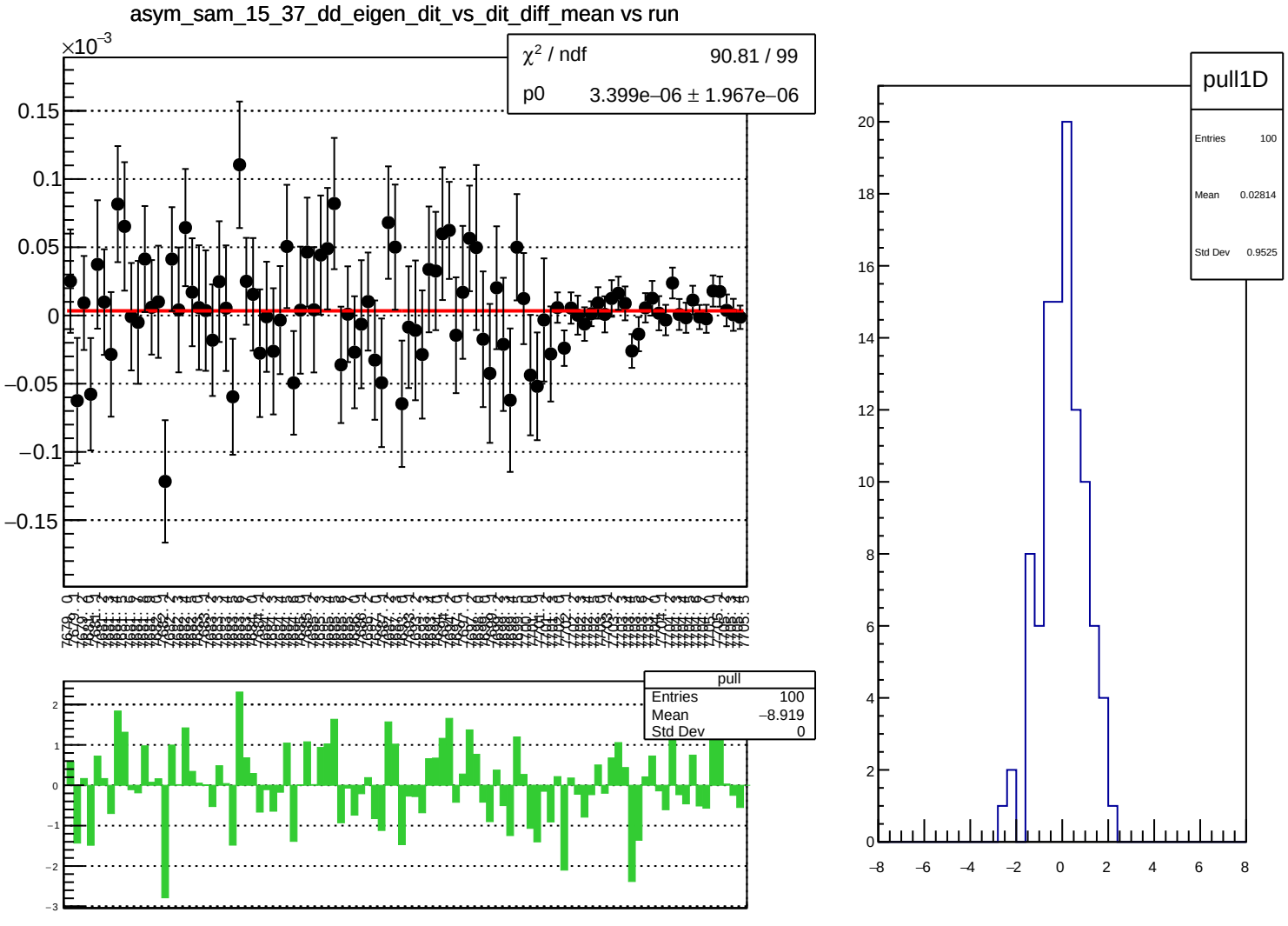

pull1D
Entries 100
Mean −0.01663
Std Dev 0.9945

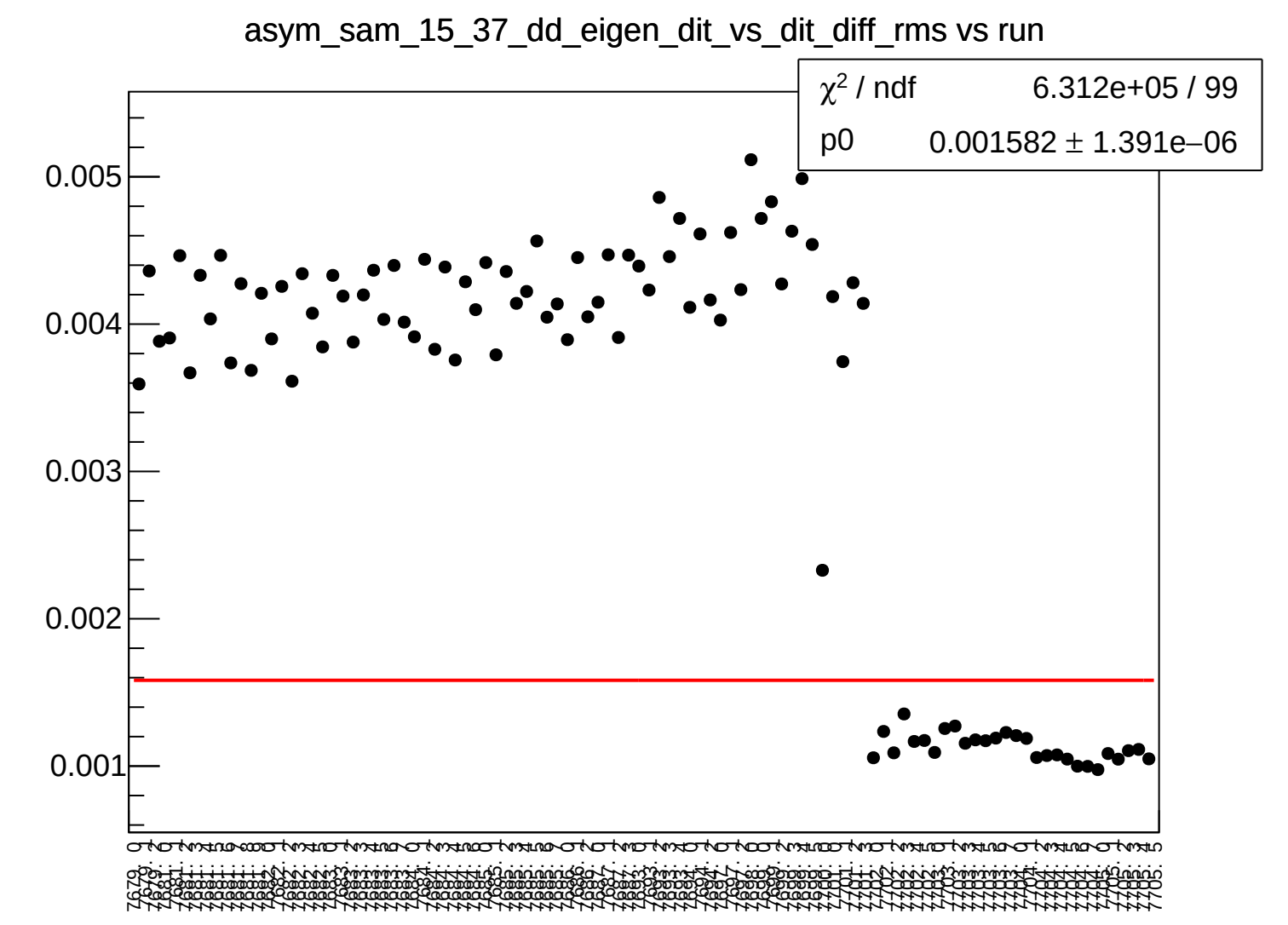

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.637e+05 / 99
p0 19.48 ± 0.01612
180
160
140
120
100
80
60
40
20

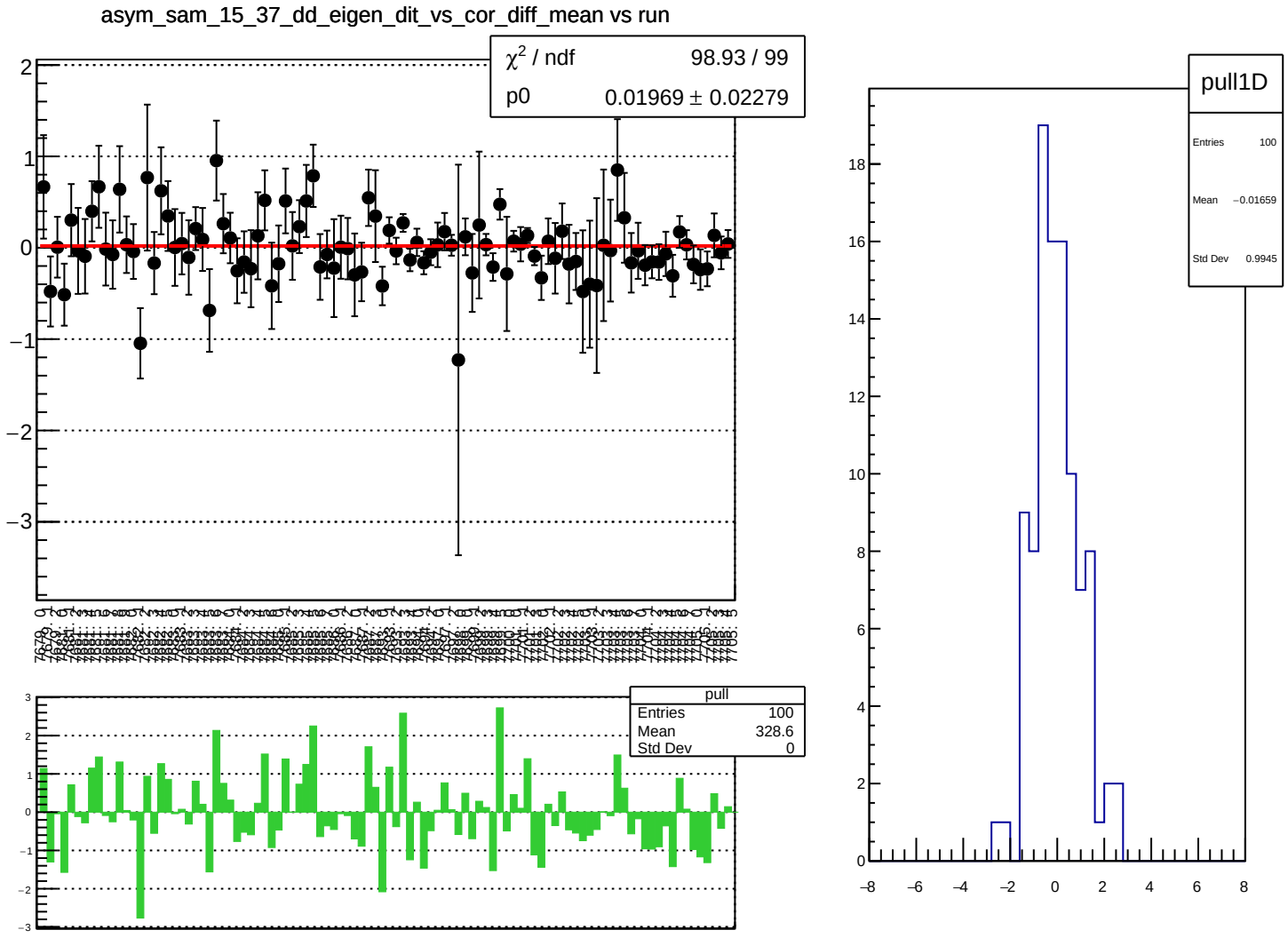

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.94 / 99
p0 0.0197 ± 0.02279
pull
Entries 100
Mean 328
Std Dev 0

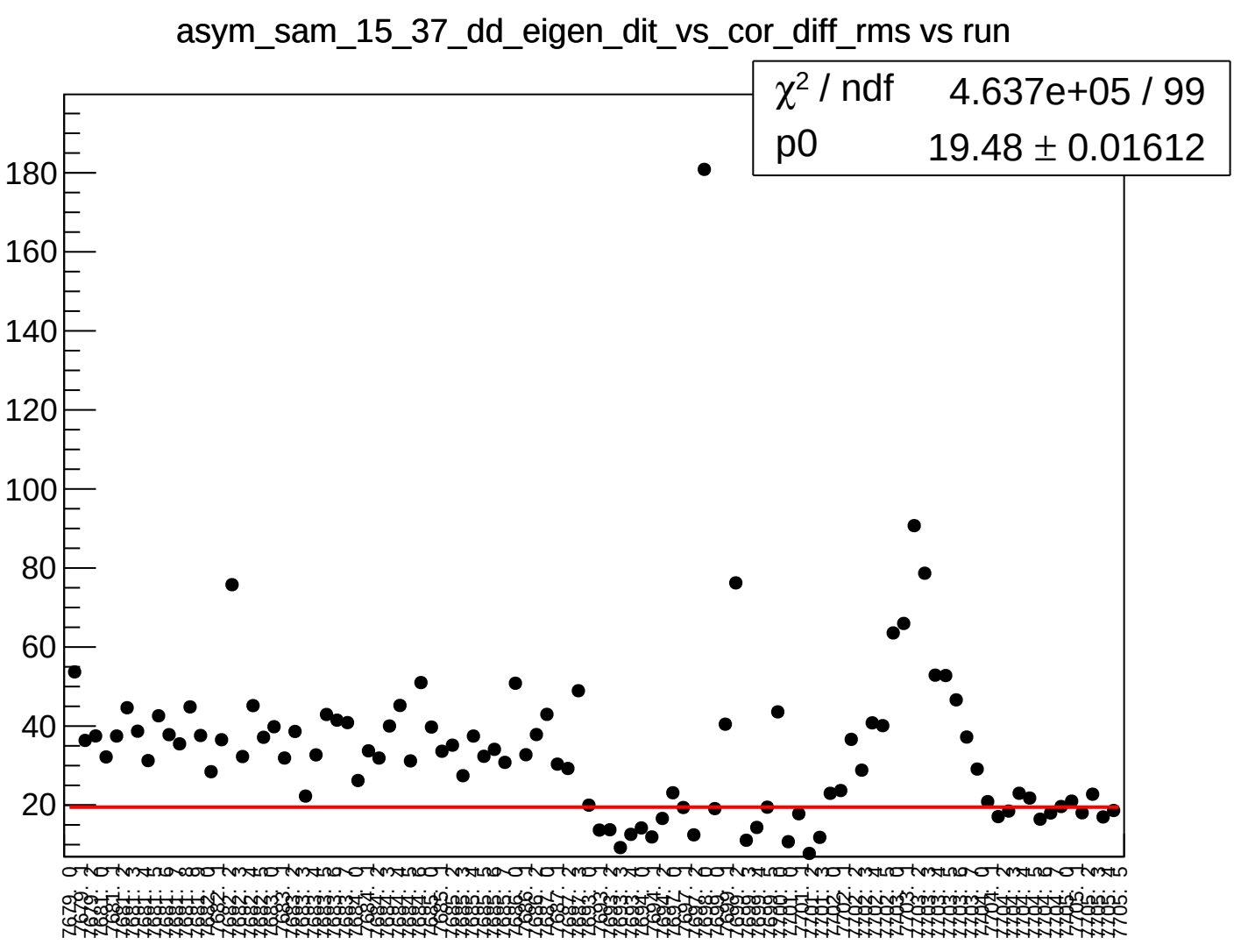

pull1D
Entries 100
Mean −0.01663
Std Dev 0.9945

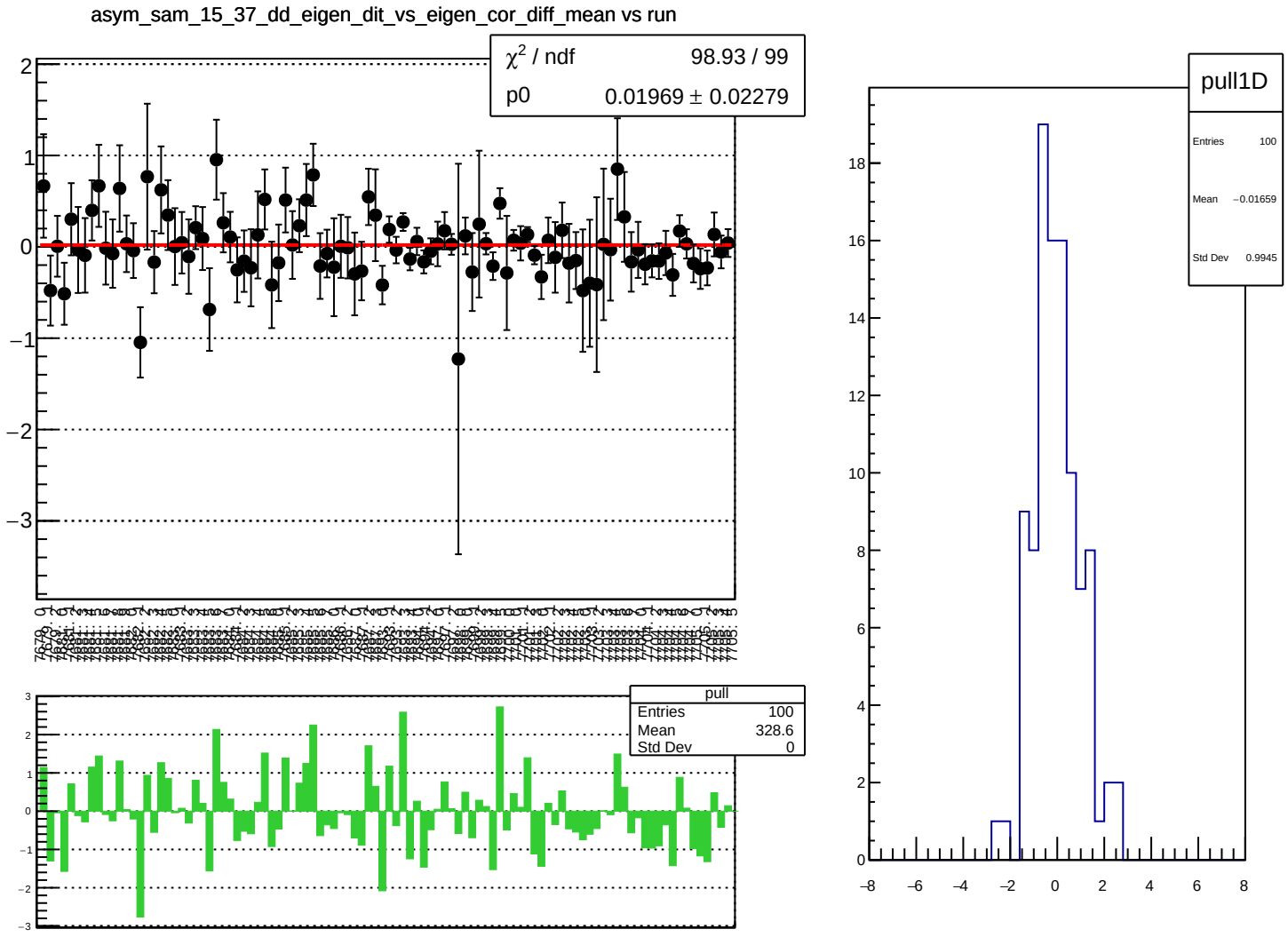

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.637e+05 / 99
p0 19.48 ± 0.01612
180
160
140
120
100
80
60
40
20

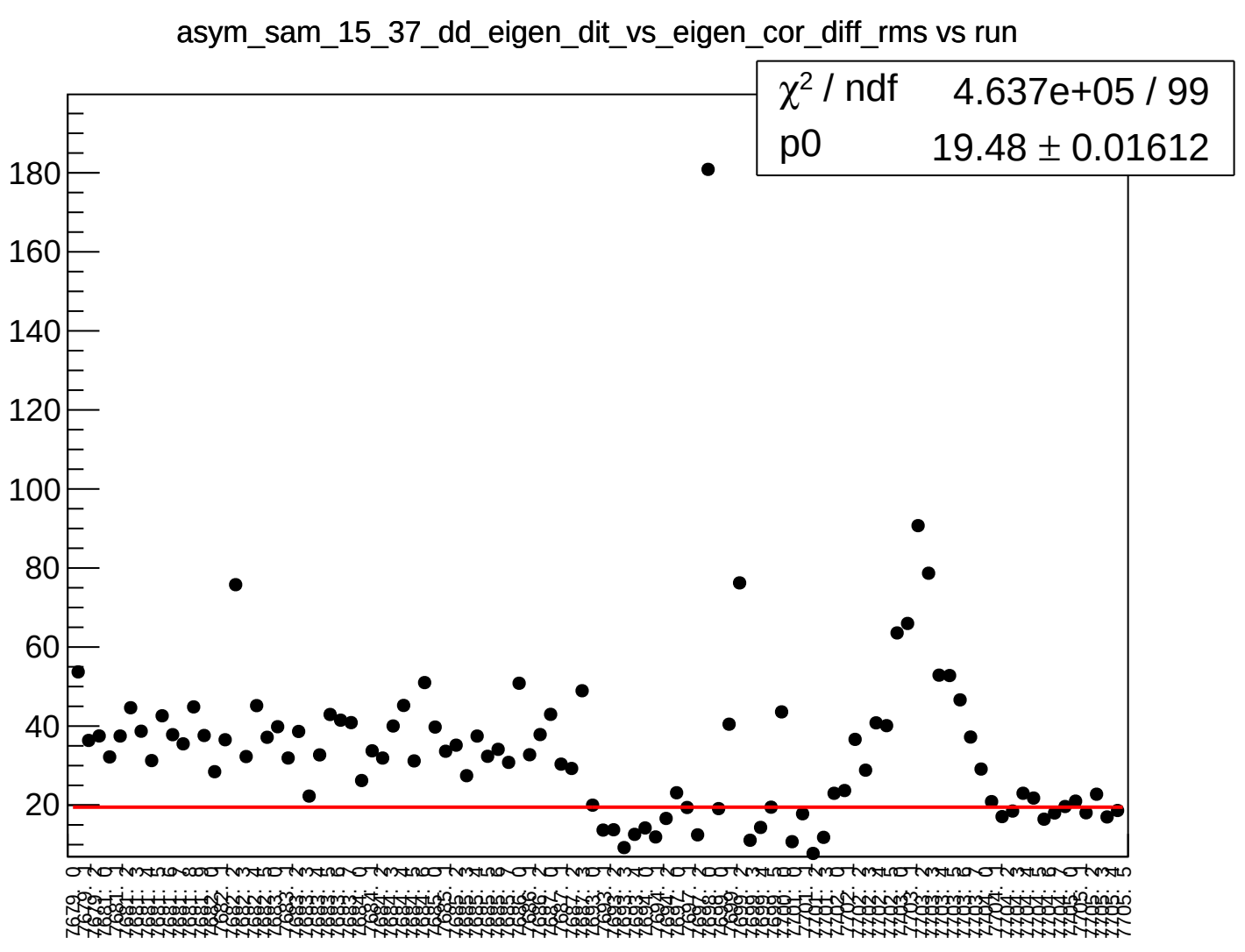

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.81 / 99
p0 3.399e−06 ± 1.967e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 100
Mean −8.919
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean 0.02814
Std Dev 0.9525
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

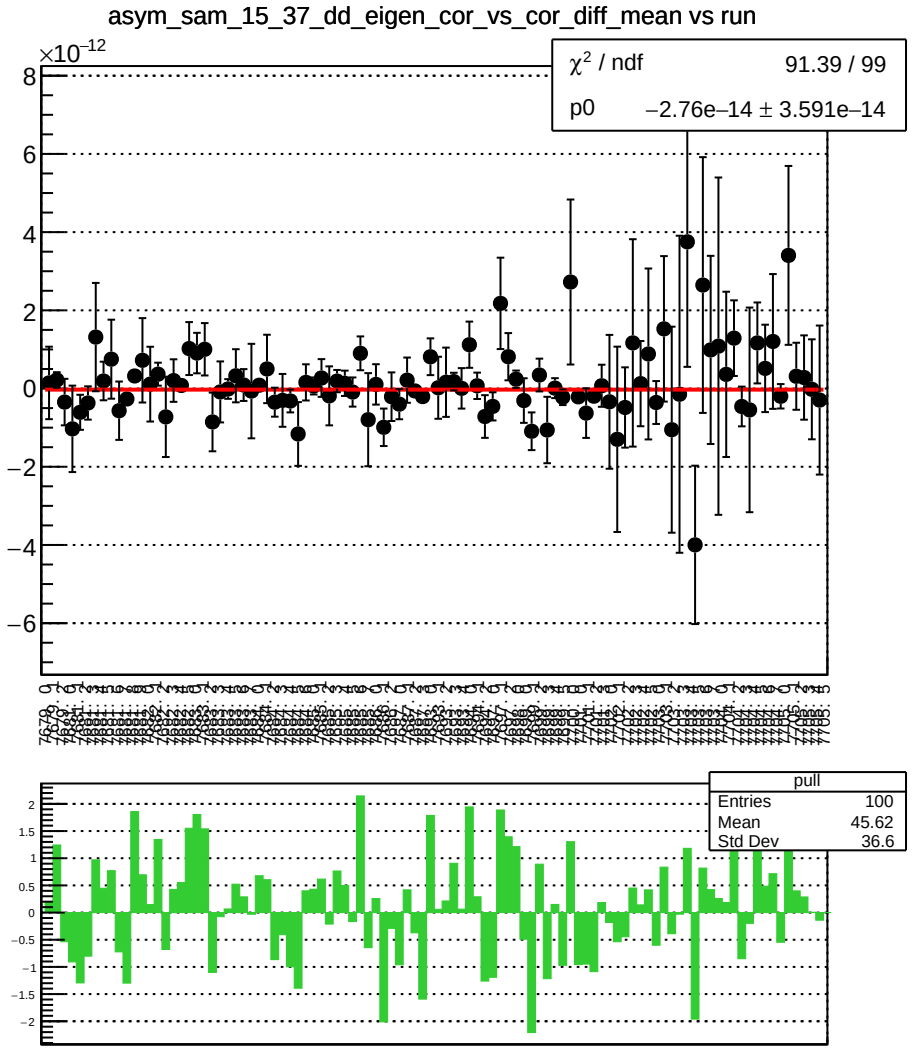

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.312e+05 / 99
p0 0.001582 ± 1.391e−06
0.005
0.004
0.003
0.002
0.001

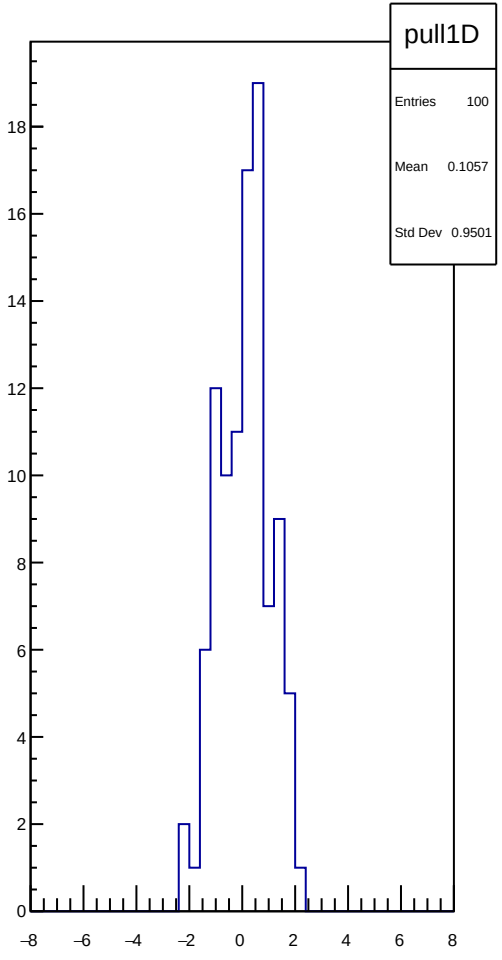

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.93 / 99
p0 0.01969 ± 0.02279
pull
Entries 100
Mean 328.6
Std Dev 0
pull1D
Entries 100
Mean −0.01659
Std Dev 0.9945

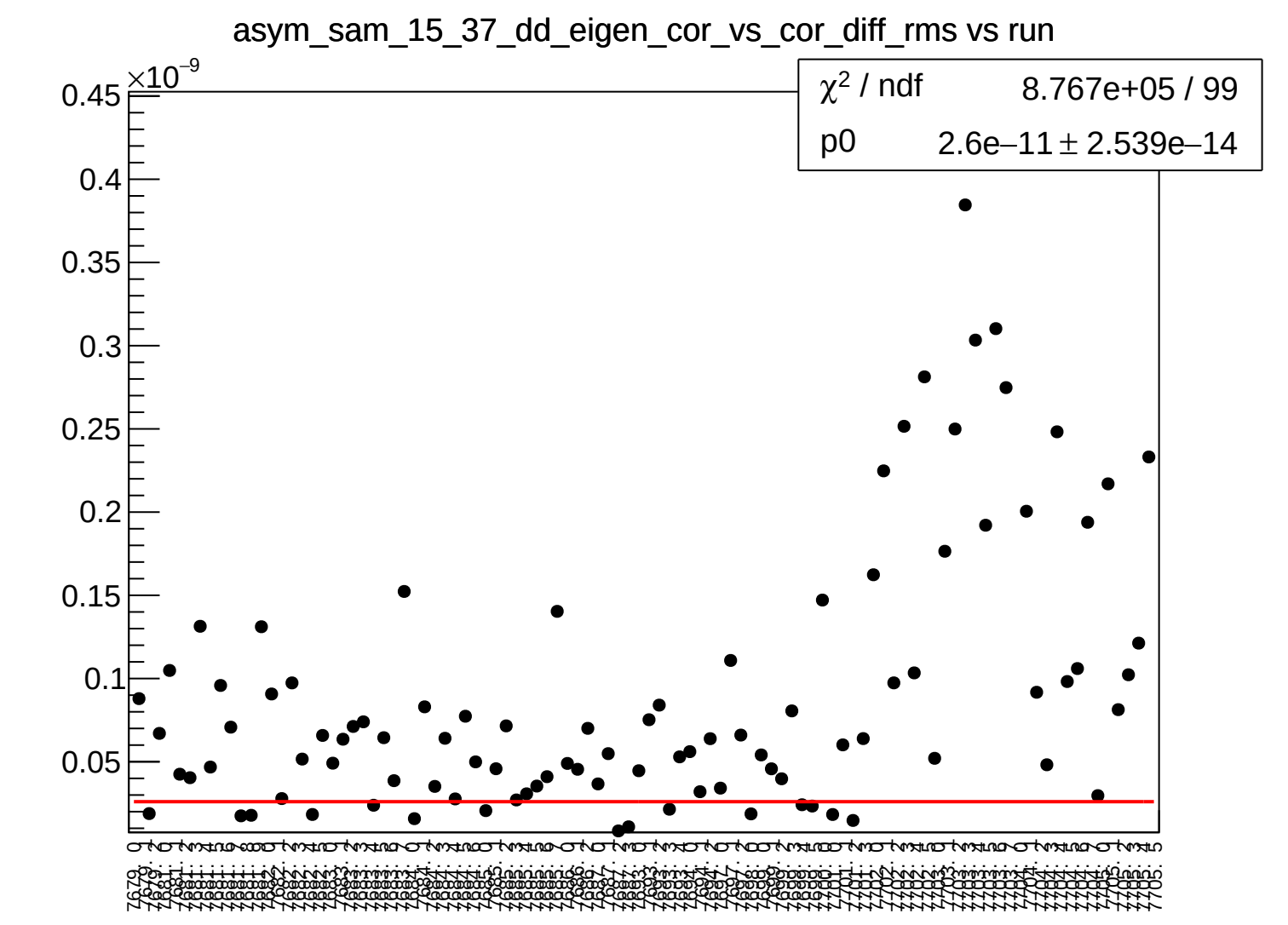

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.637e+05 / 99
p0 19.48 ± 0.01612
180
160
140
120
100
80
60
40
20

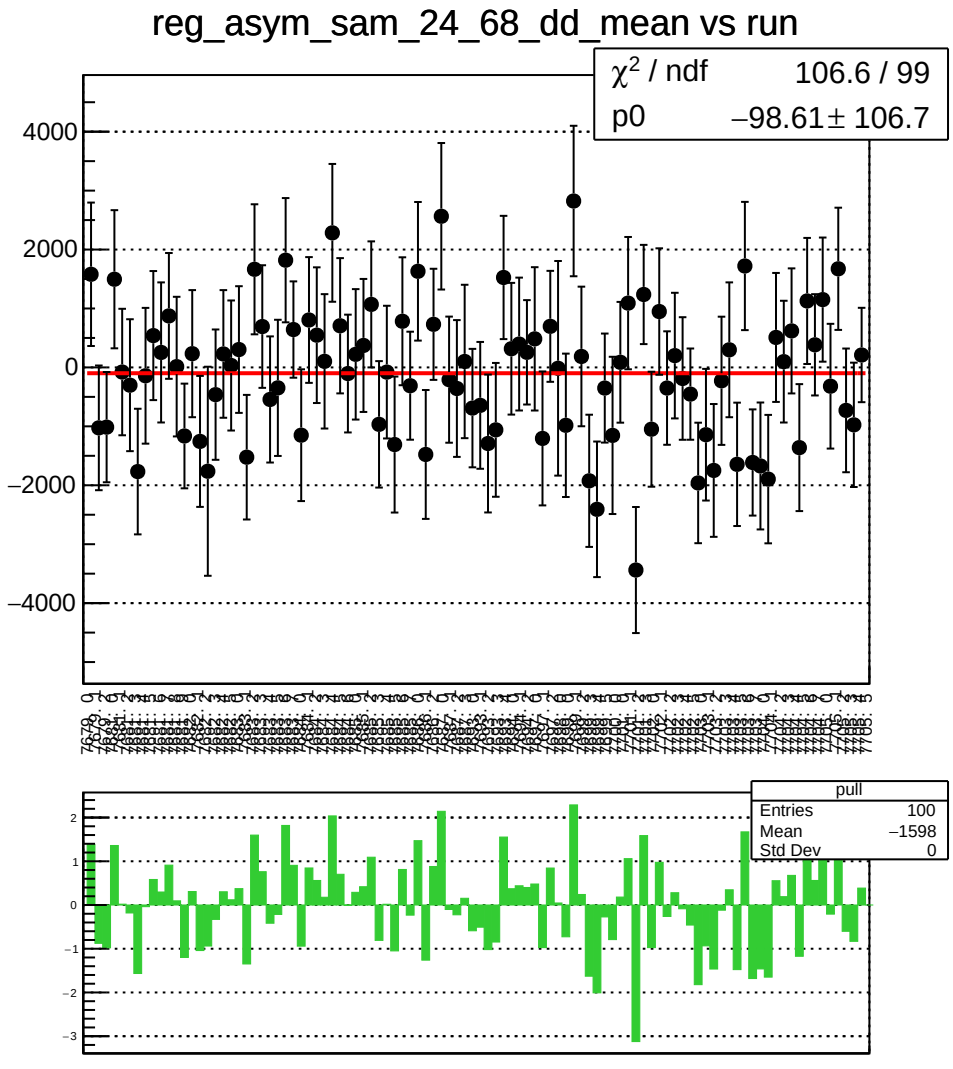

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.93 / 99
p0 0.01969 ± 0.02279
pull
Entries 100
Mean 328.6
Std Dev 0
pull1D
Entries 100
Mean −0.01659
Std Dev 0.9945

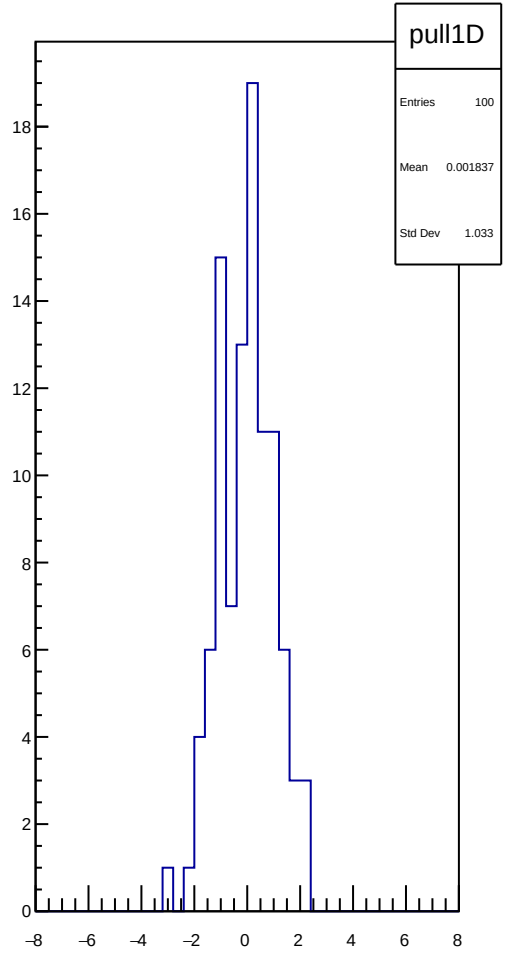

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.637e+05 / 99
p0 19.48 ± 0.01612
180
160
140
120
100
80
60
40
20

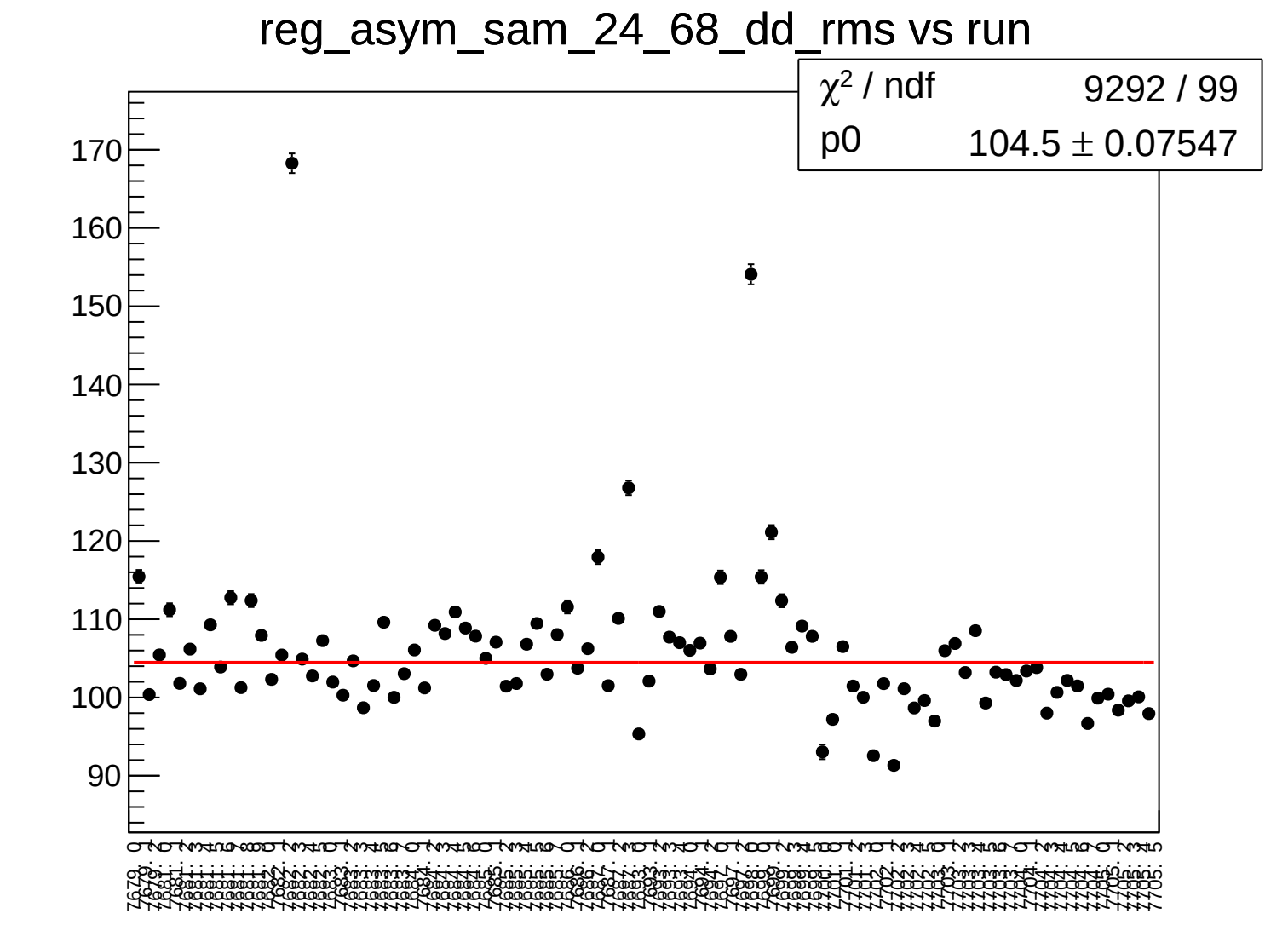

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 91.39 / 99
p0 −2.76e−14 ± 3.591e−14
pull
Entries 100
Mean 45.62
Std Dev 36.6

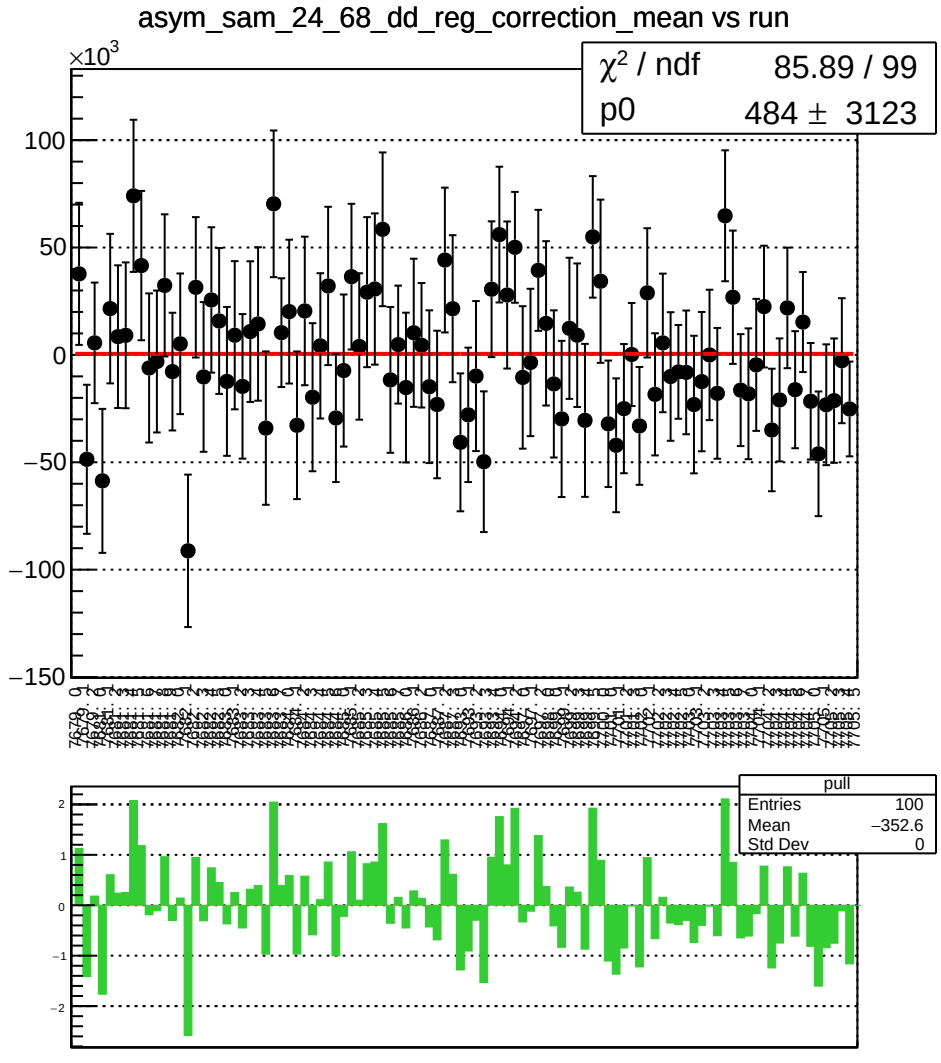

pull1D
Entries 100
Mean 0.1057
Std Dev 0.9501

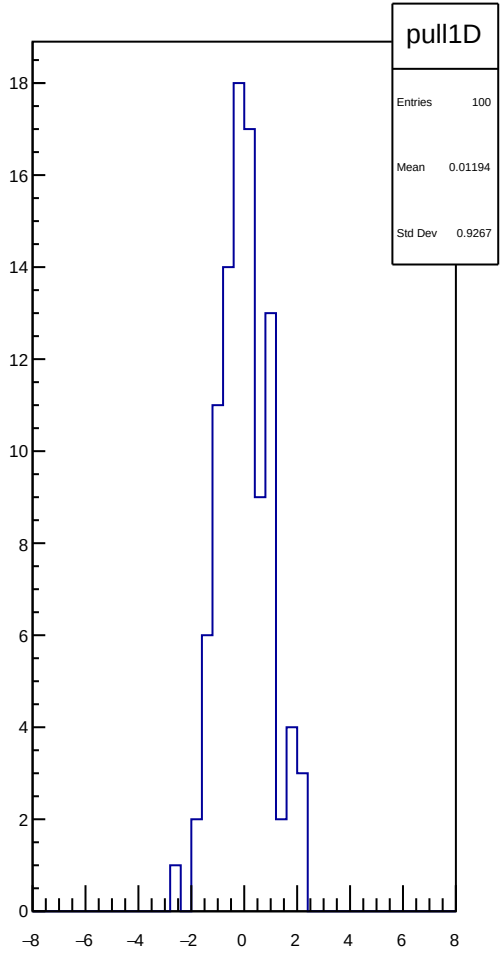

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 8.767e+05 / 99
p0 2.6e−11 ± 2.539e−14

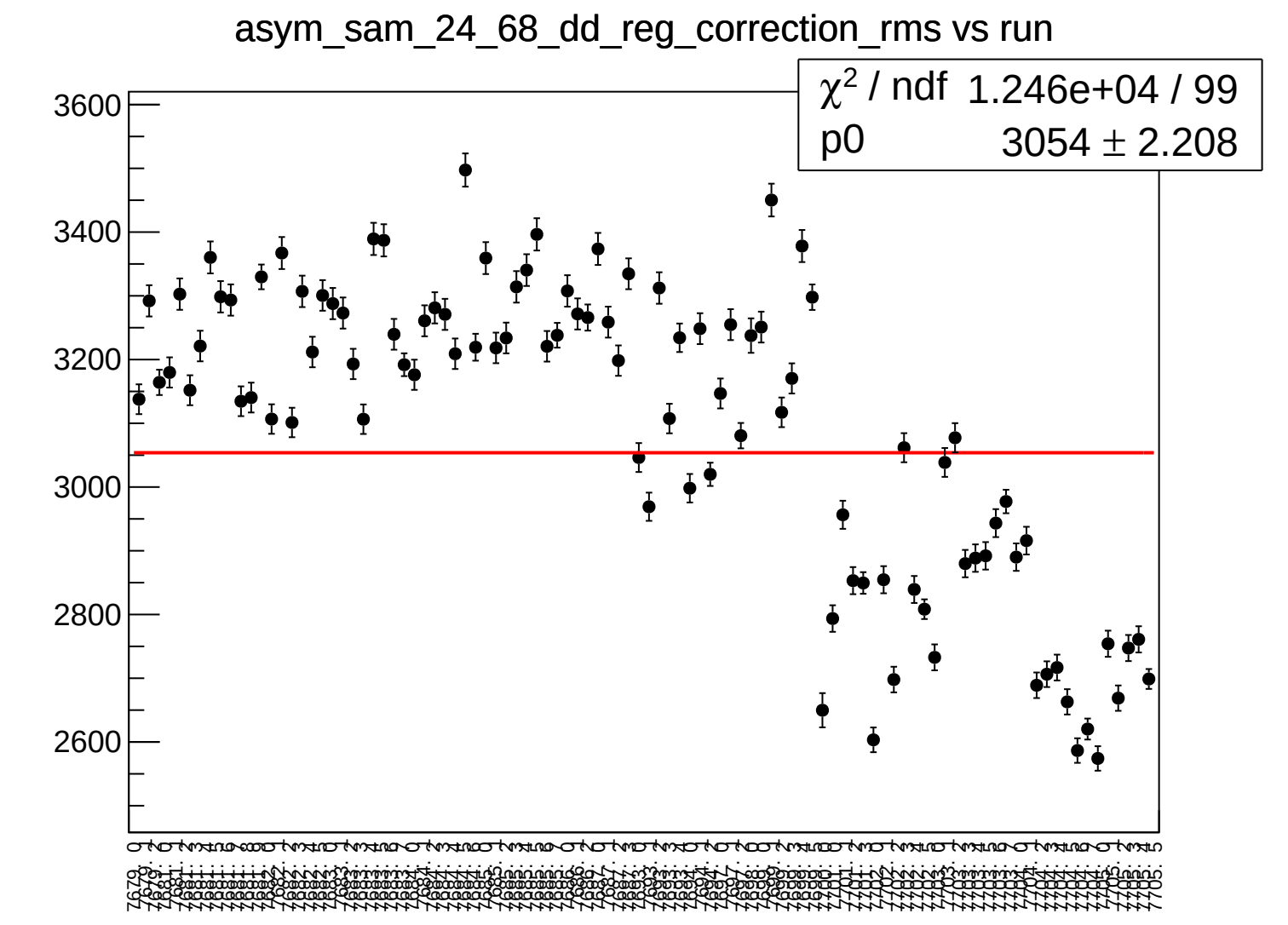

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 106.6 / 99
p0 −98.61 ± 106.7
4000
2000
0
−2000
−4000
pull
Entries 100
Mean −1598
Std Dev 0
2
1
0
−1
−2
−3

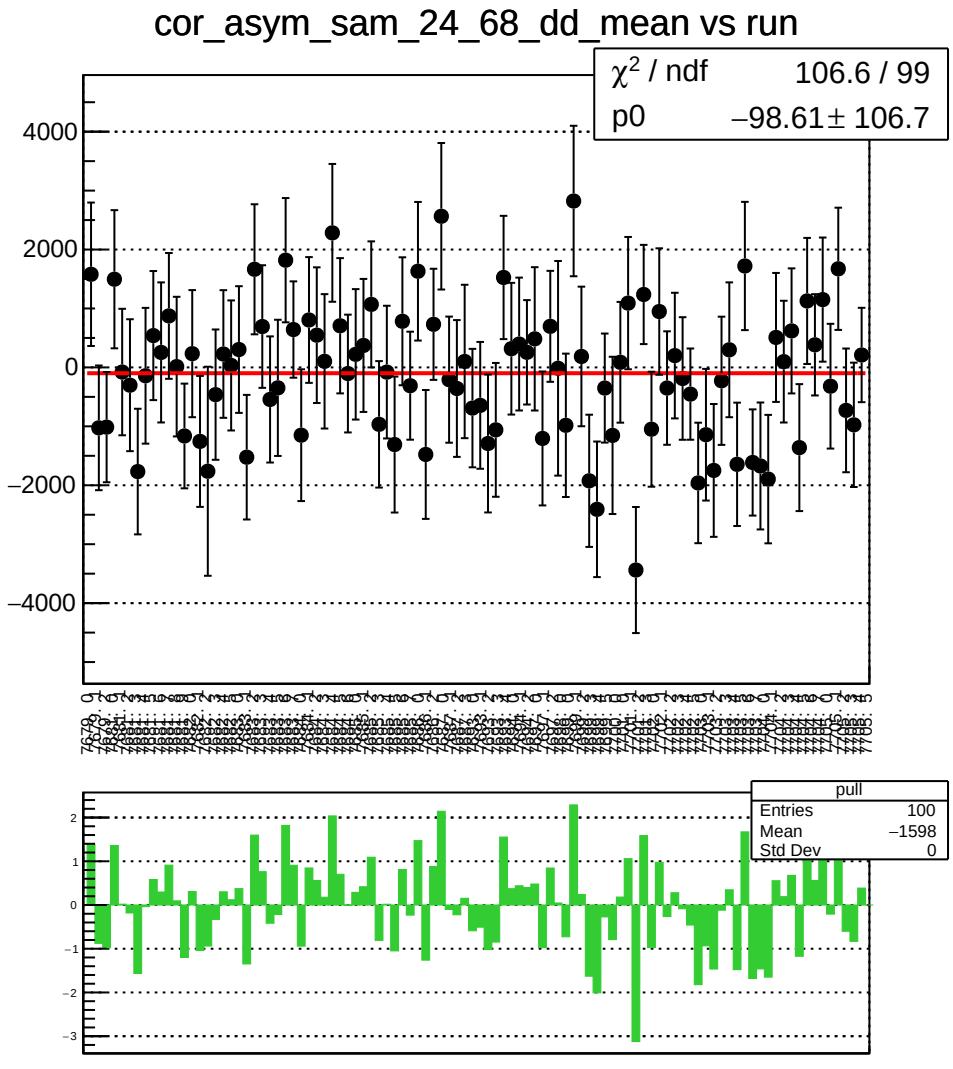

pull1D
Entries 100
Mean 0.001837
Std Dev 1.033
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

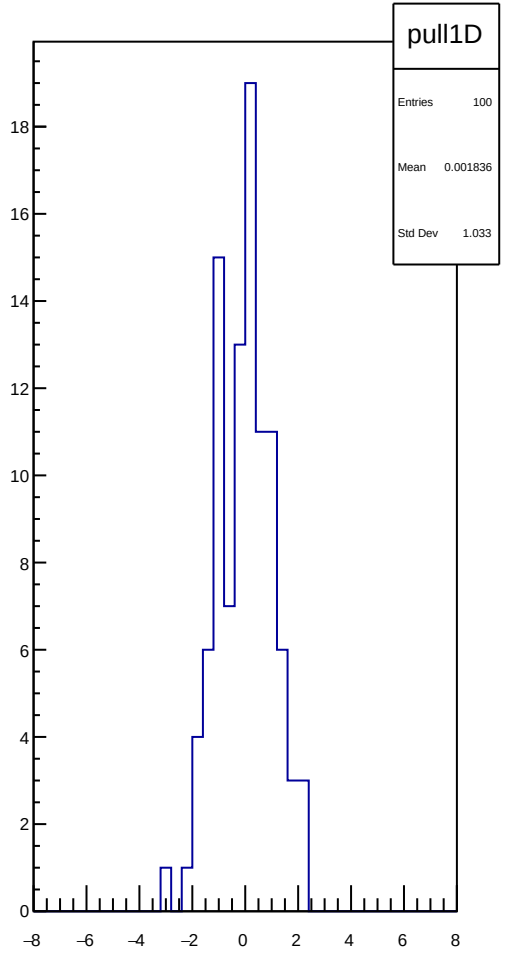

reg_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 9292 / 99
p0 104.5 ± 0.07547
170
160
150
140
130
120
110
100
90

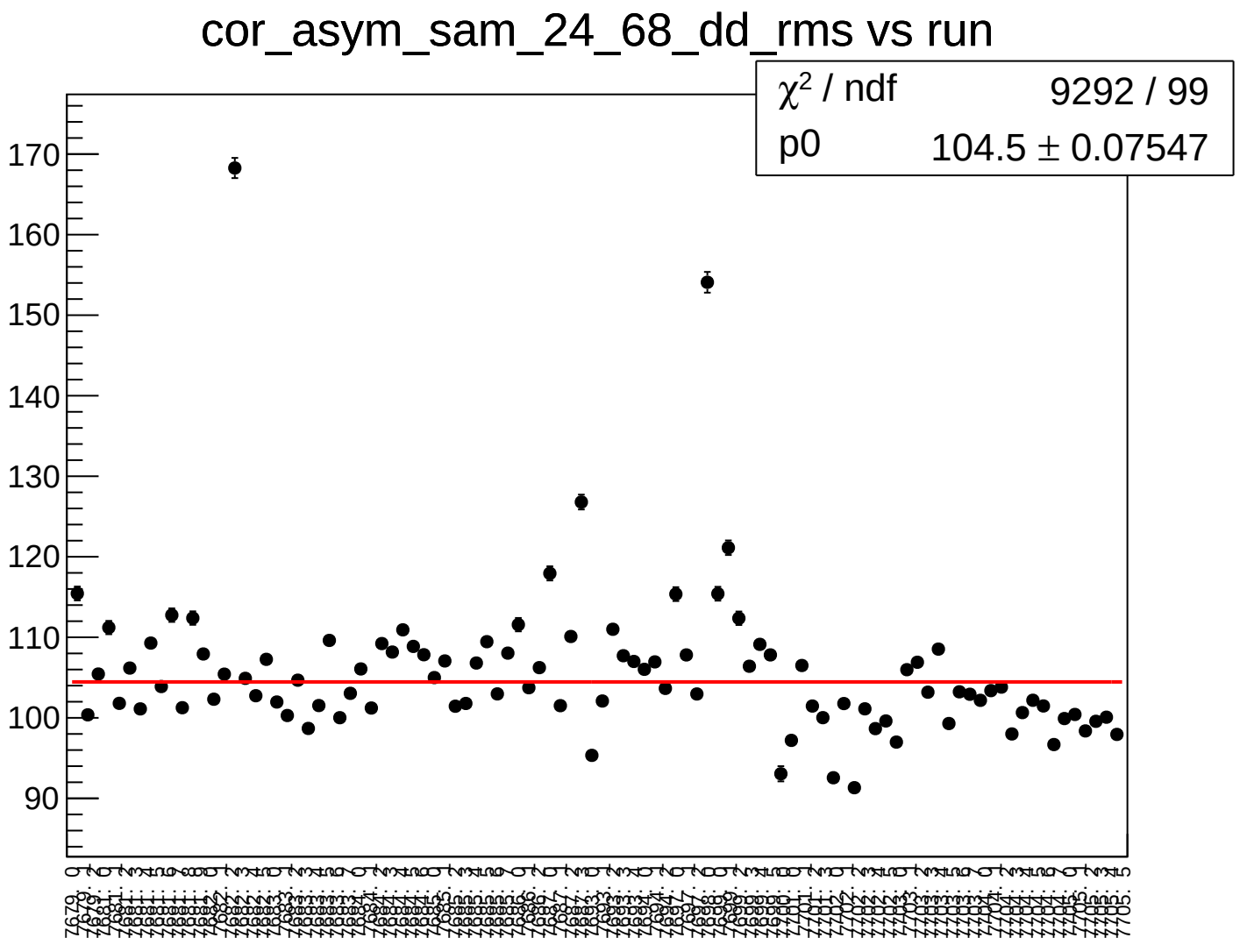

asym_sam_24_68_dd_reg_correction_mean vs run
×10^3
χ² / ndf 85.89 / 99
p0 484 ± 3123
100
50
0
−50
−100
−150
pull
Entries 100
Mean −352.6
Std Dev 0
2
1
0
−1
−2

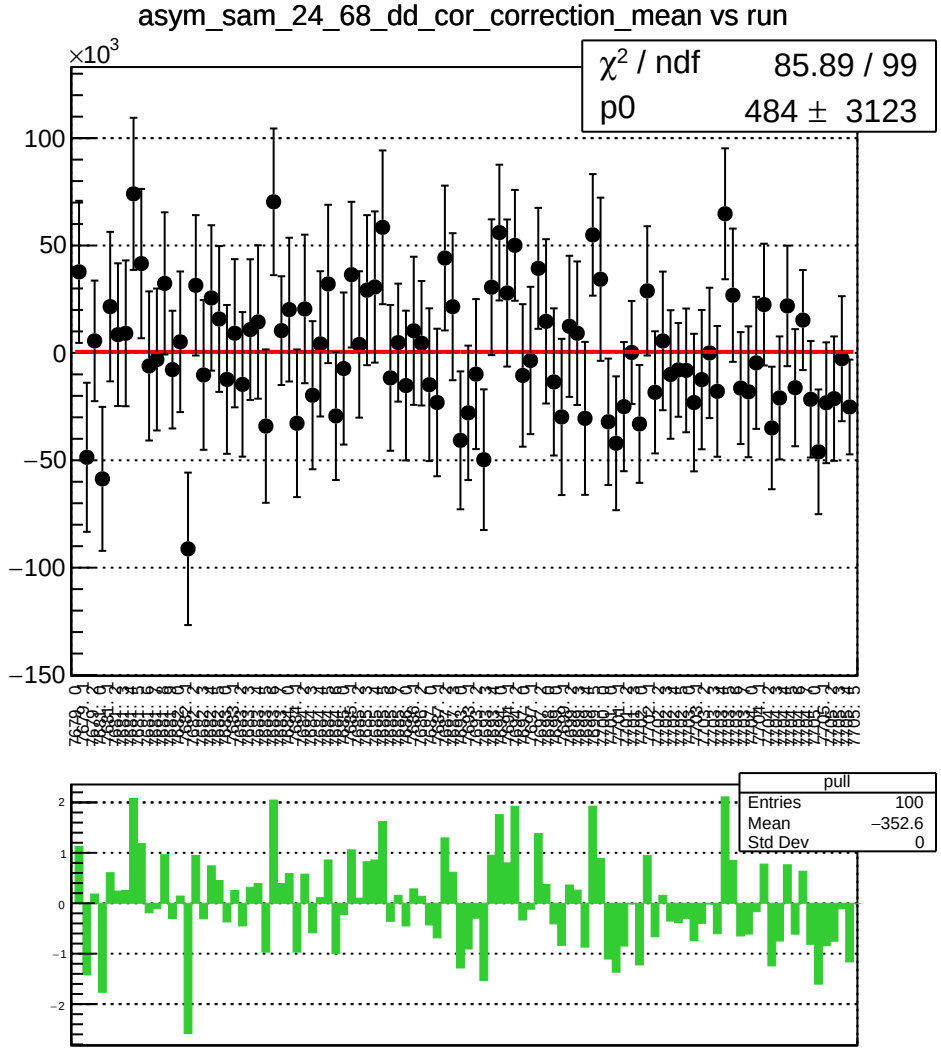

pull1D
Entries 100
Mean 0.01194
Std Dev 0.9267
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

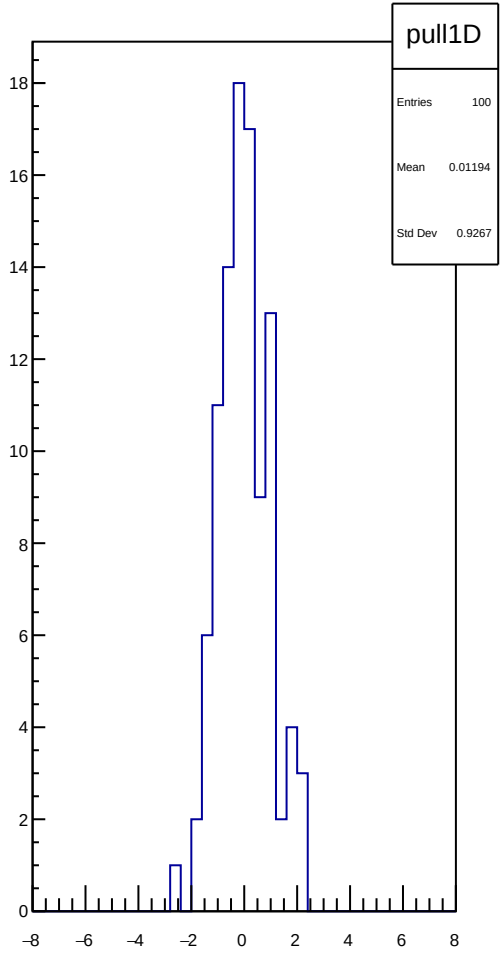

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 1.246e+04 / 99
p0 3054 ± 2.208
3600
3400
3200
3000
2800
2600

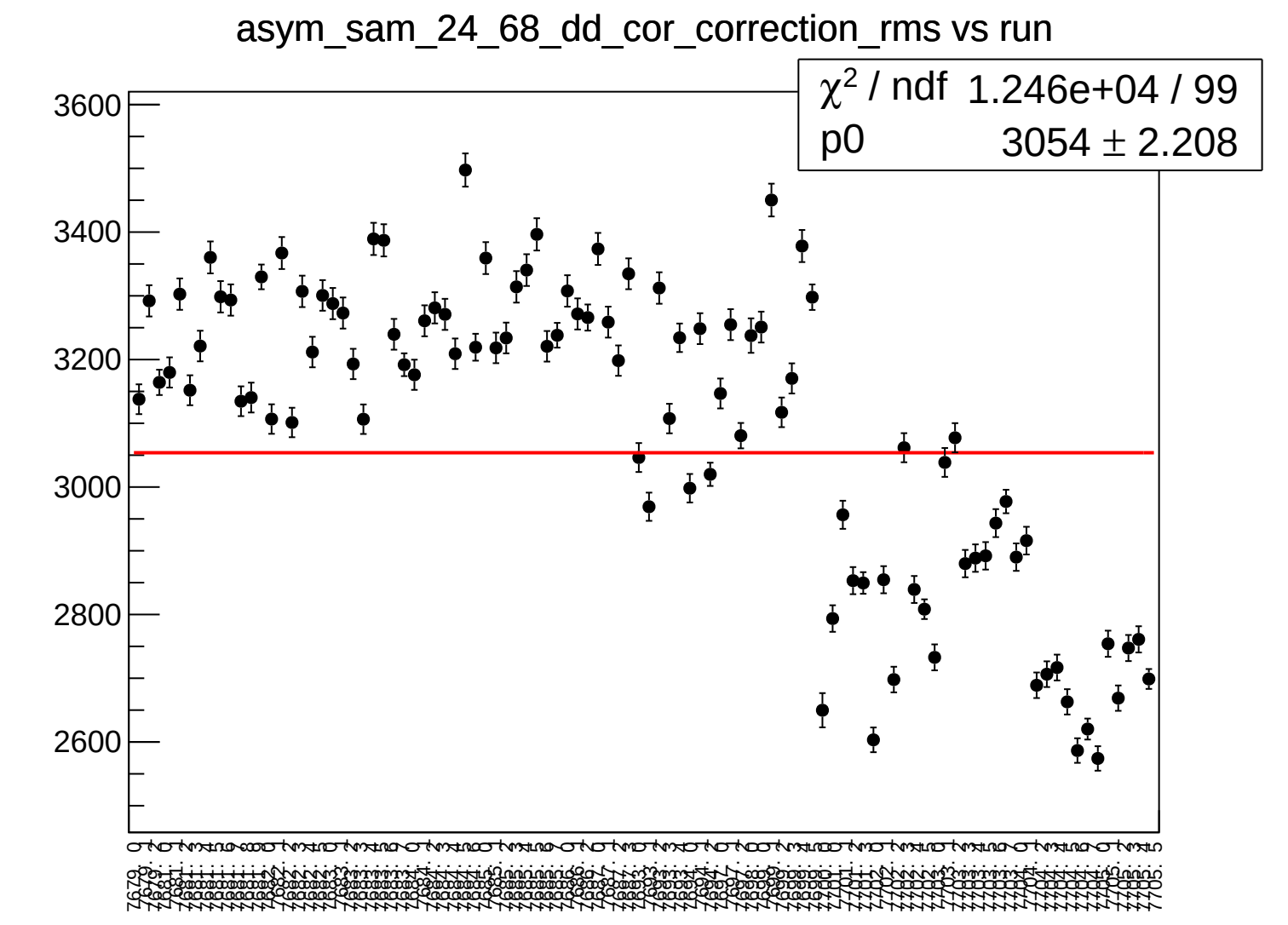

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 106.6 / 99
p0 −98.61 ± 106.7
4000
2000
0
−2000
−4000
pull
Entries 100
Mean −1598
Std Dev 0
2
1
0
−1
−2
−3

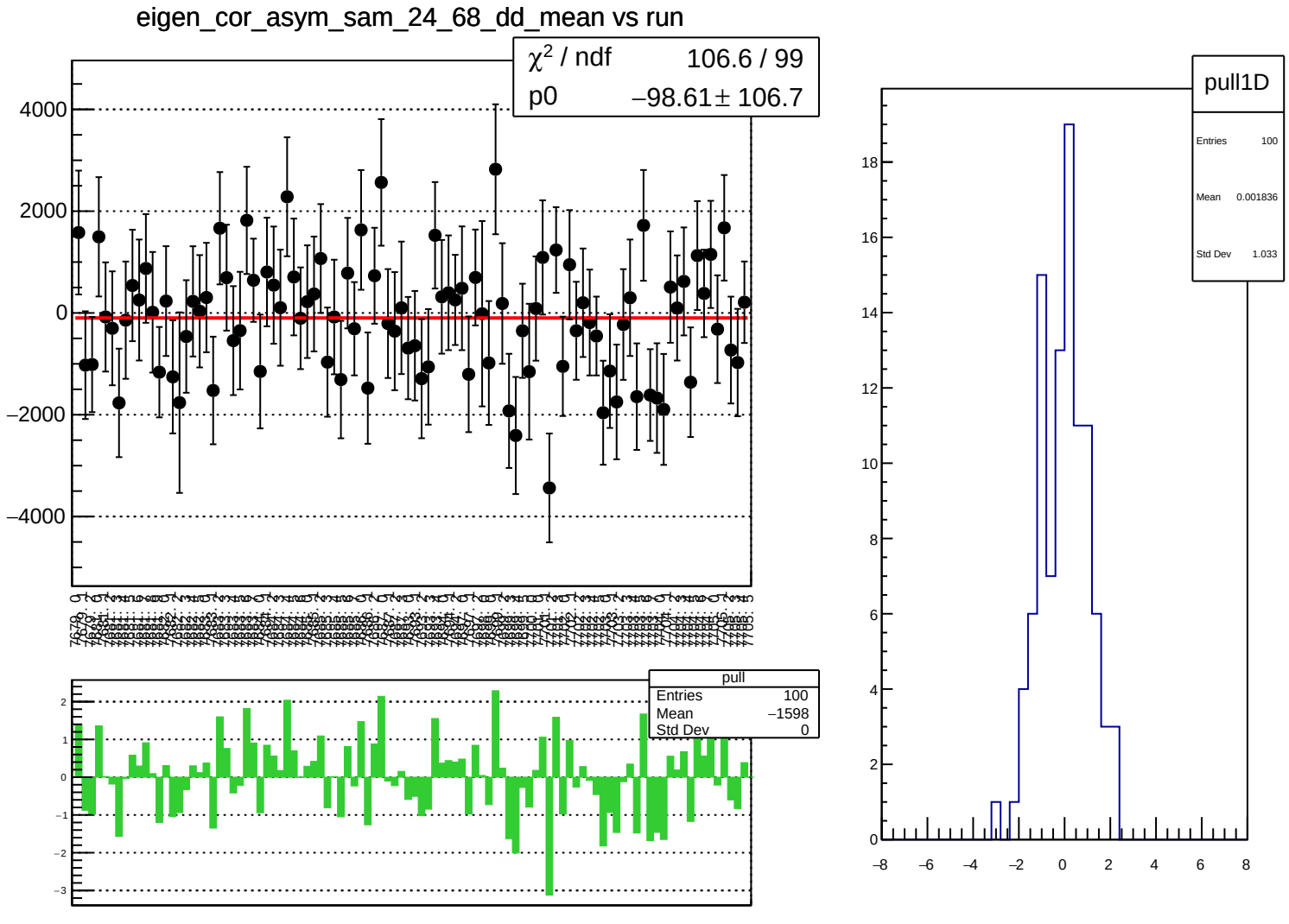

pull1D
Entries 100
Mean 0.001836
Std Dev 1.033
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

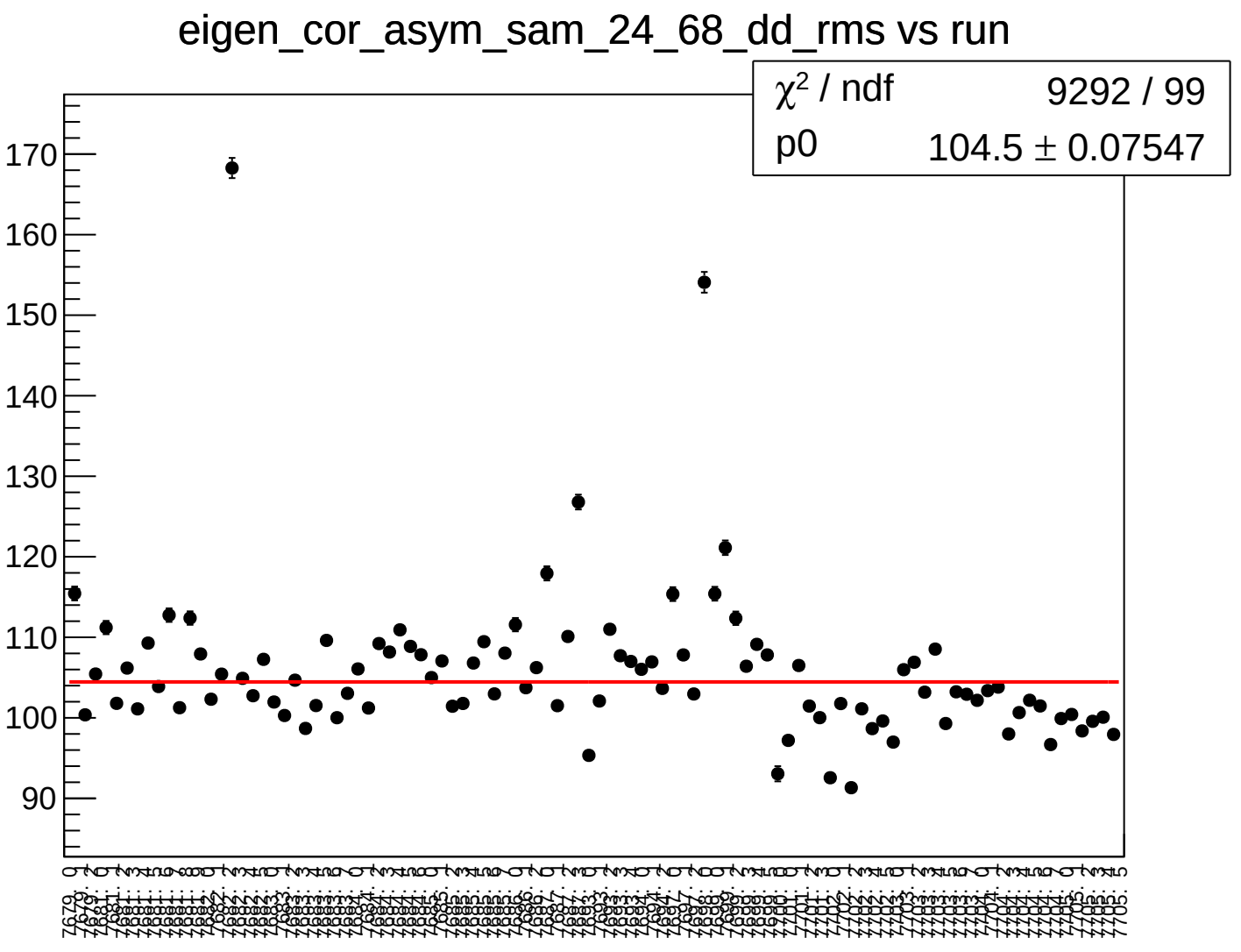

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 9292 / 99
p0 104.5 ± 0.07547
170
160
150
140
130
120
110
100
90

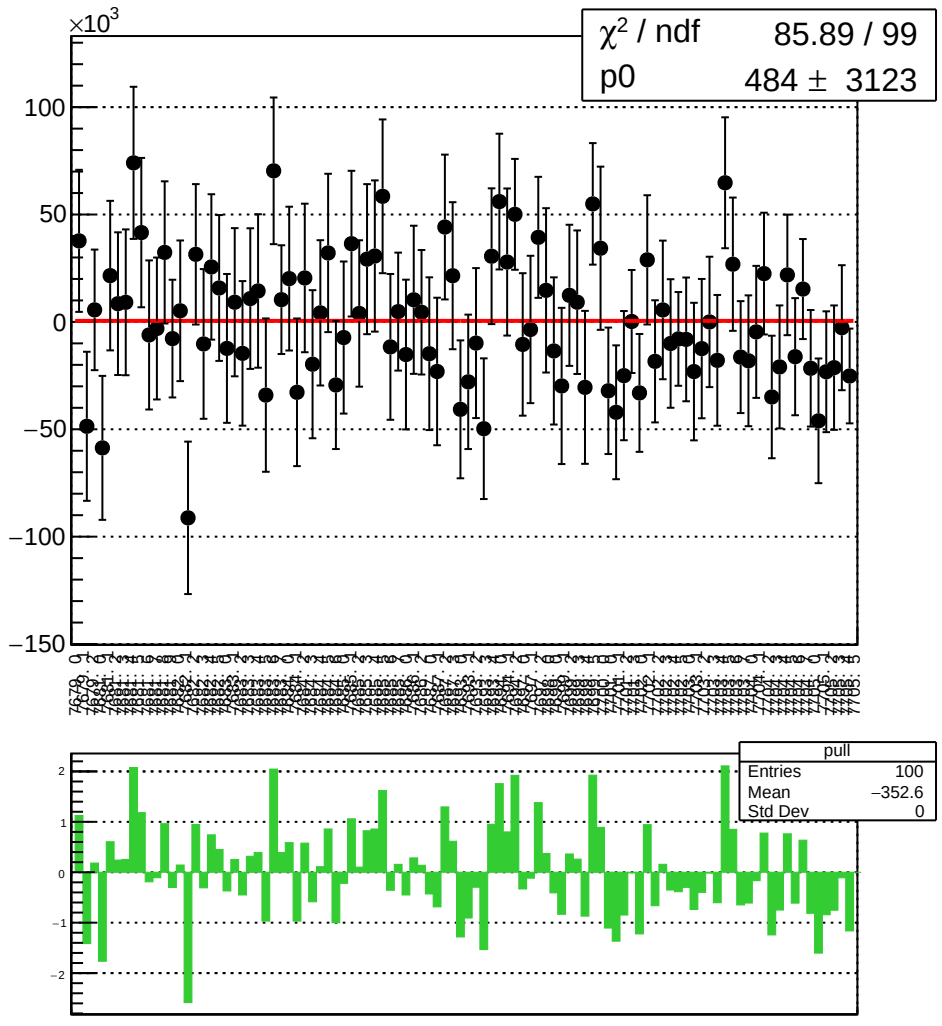

asym_sam_24_68_dd_cor_correction_mean vs run
×10^3
χ² / ndf 85.89 / 99
p0 484 ± 3123
100
50
0
−50
−100
−150
pull
Entries 100
Mean −352.6
Std Dev 0
2
1
0
−1
−2

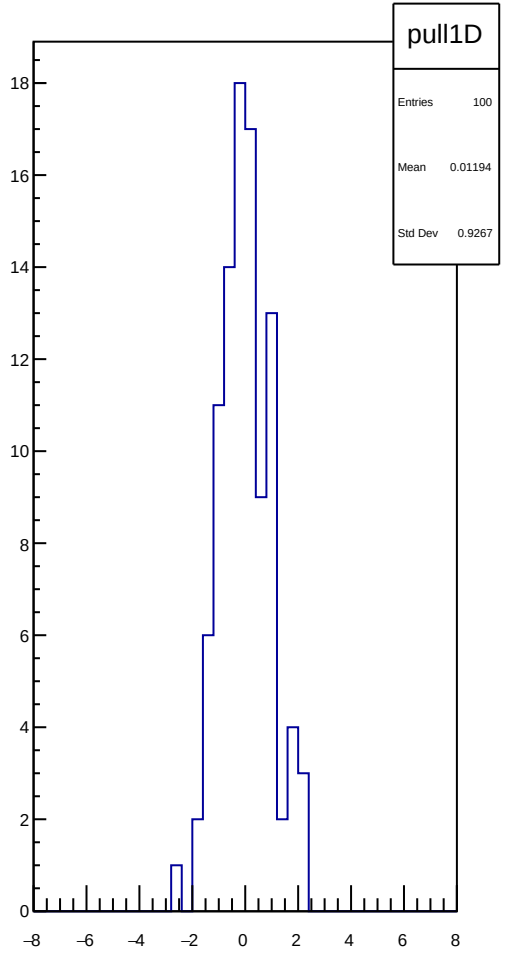

pull1D
Entries 100
Mean 0.01194
Std Dev 0.9267
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

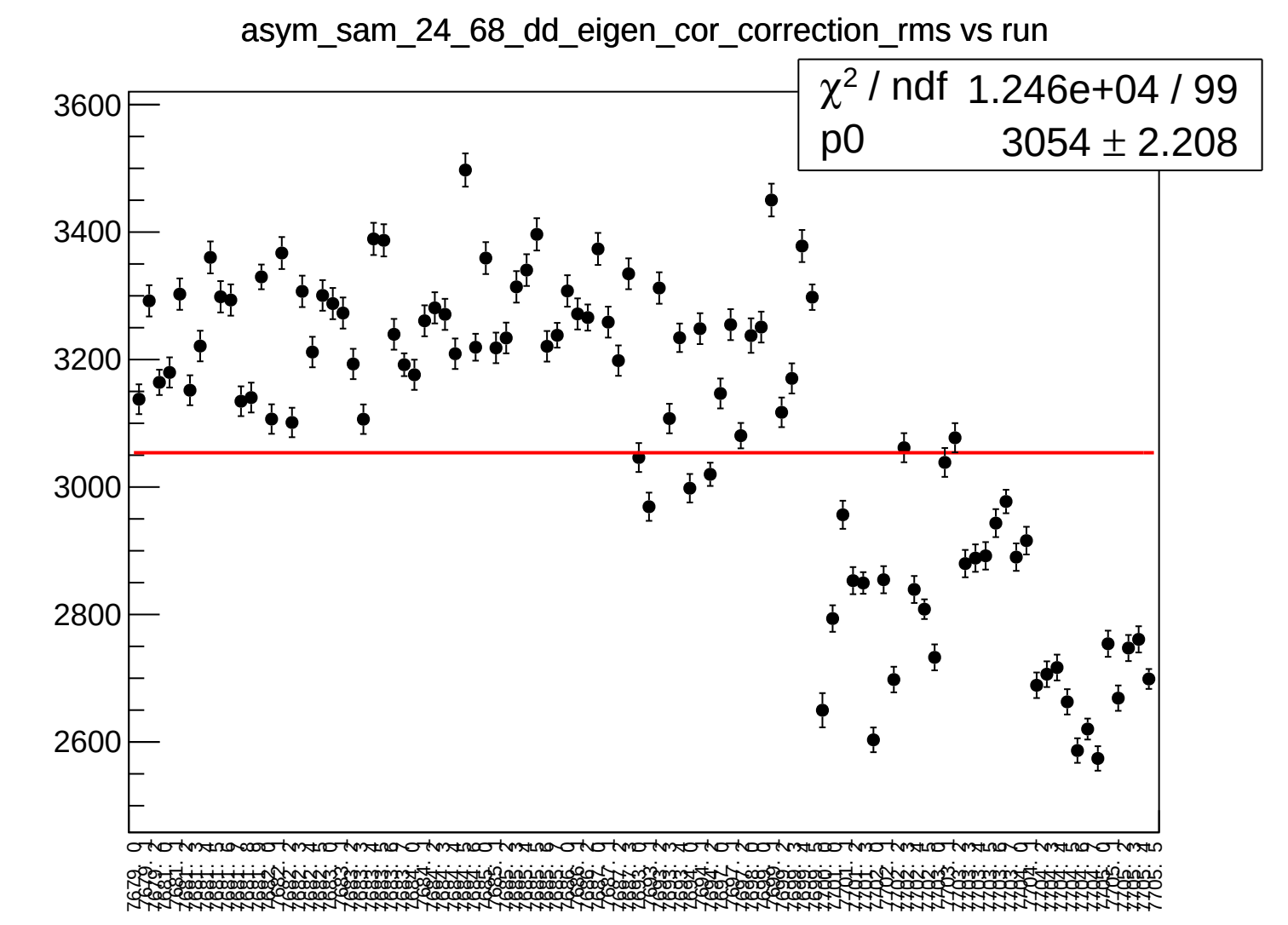

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 1.246e+04 / 99
p0 3054 ± 2.208
3600
3400
3200
3000
2800
2600

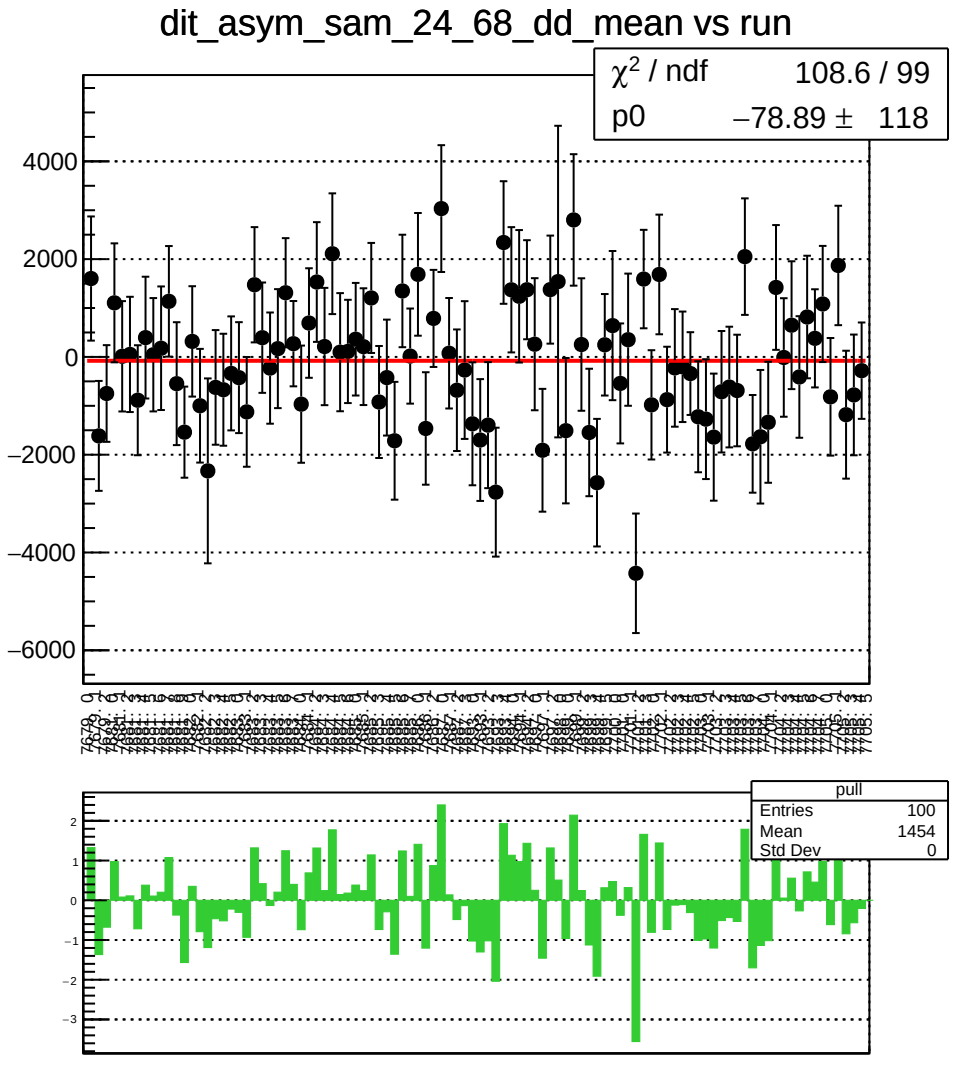

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 106.6 / 99
p0 −98.61± 106.7
4000
2000
0
−2000
−4000
pull
Entries 100
Mean −1598
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean 0.001836
Std Dev 1.033
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

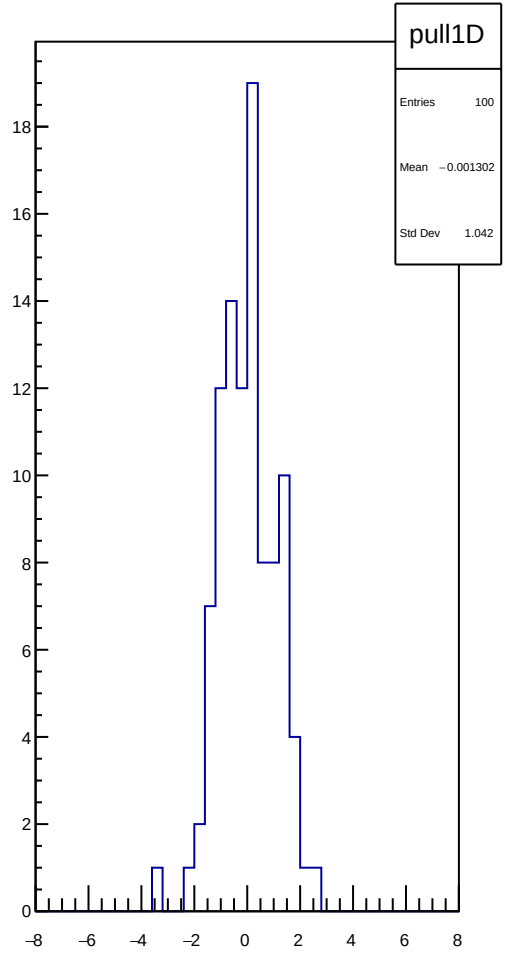

eigen_cor_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 9292 / 99
p0 104.5 ± 0.07547
170
160
150
140
130
120
110
100
90

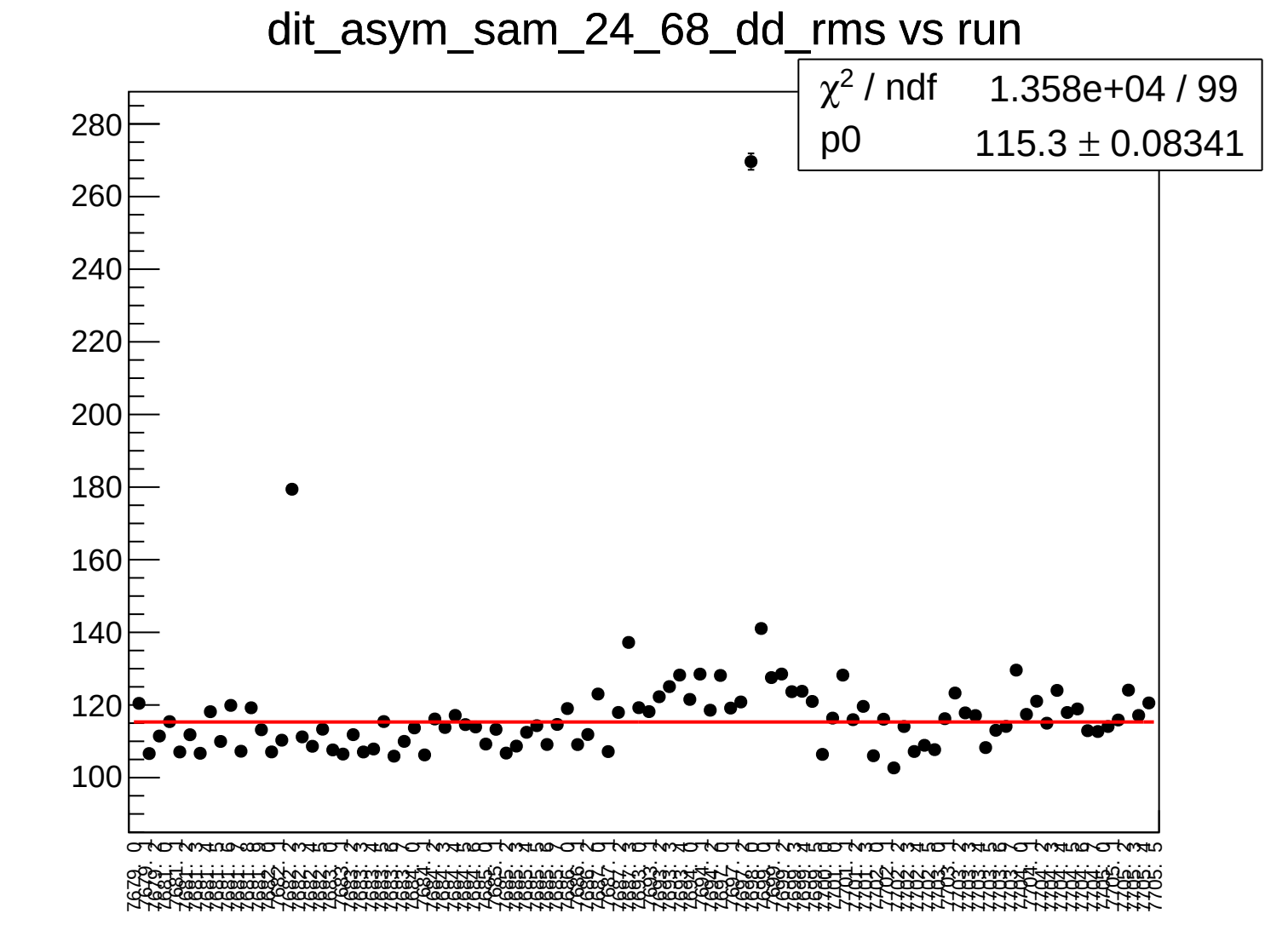

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 85.89 / 99
p0 484 ± 3123
100
50
0
−50
−100
−150
pull
Entries 100
Mean −352.6
Std Dev 0
2
1
0
−1
−2

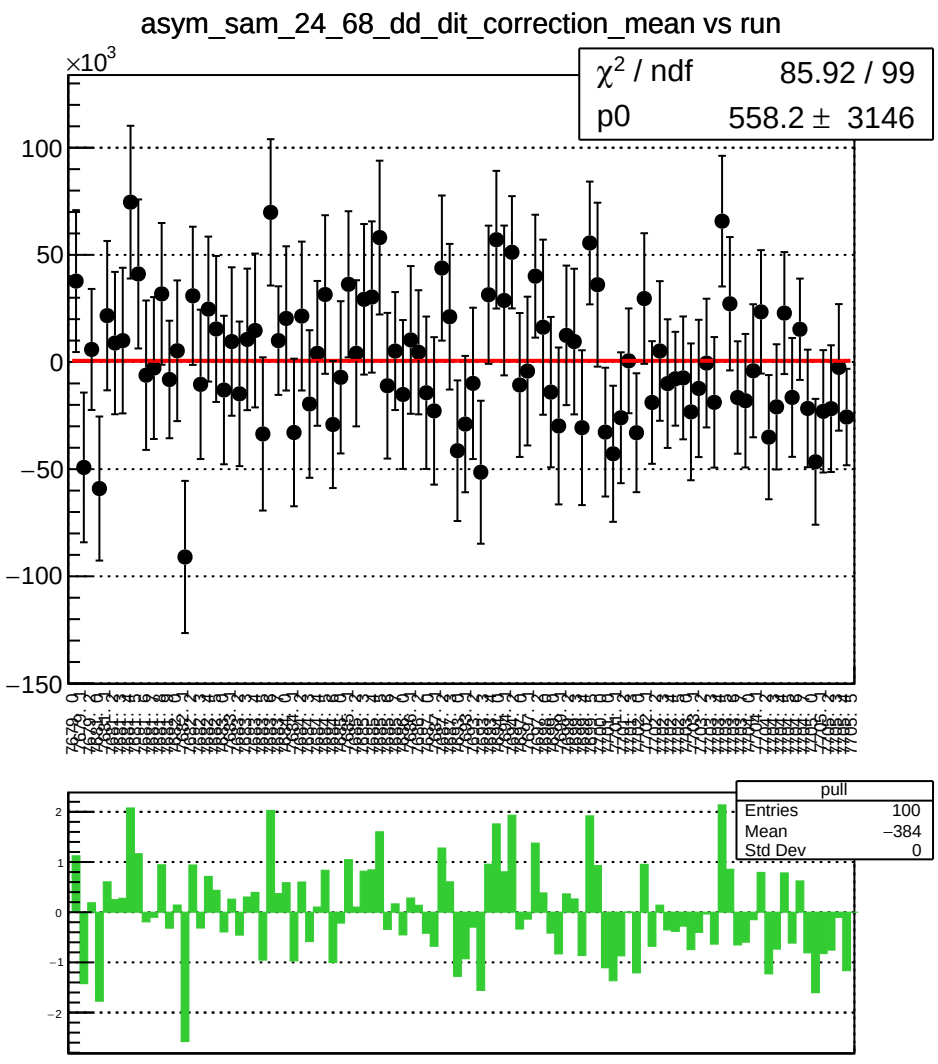

pull1D
Entries 100
Mean 0.01194
Std Dev 0.9267
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

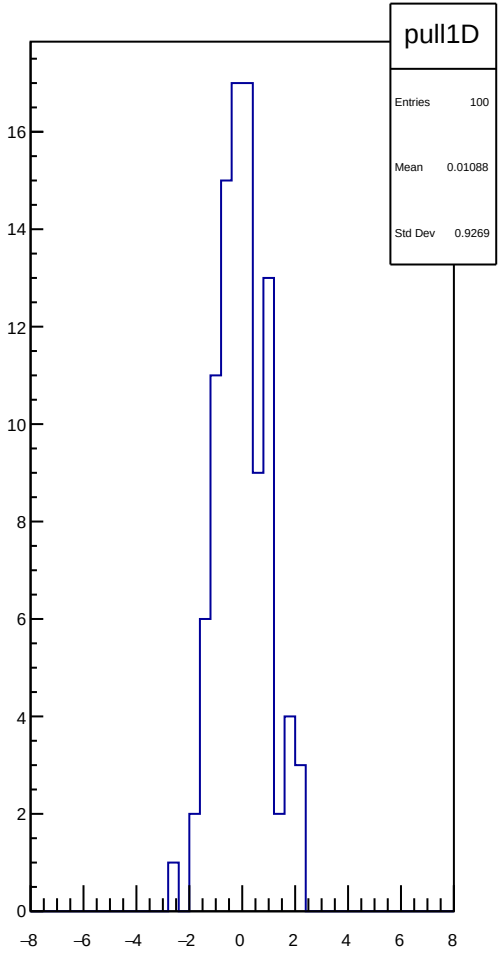

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.246e+04 / 99
p0 3054 ± 2.208
3600
3400
3200
3000
2800
2600

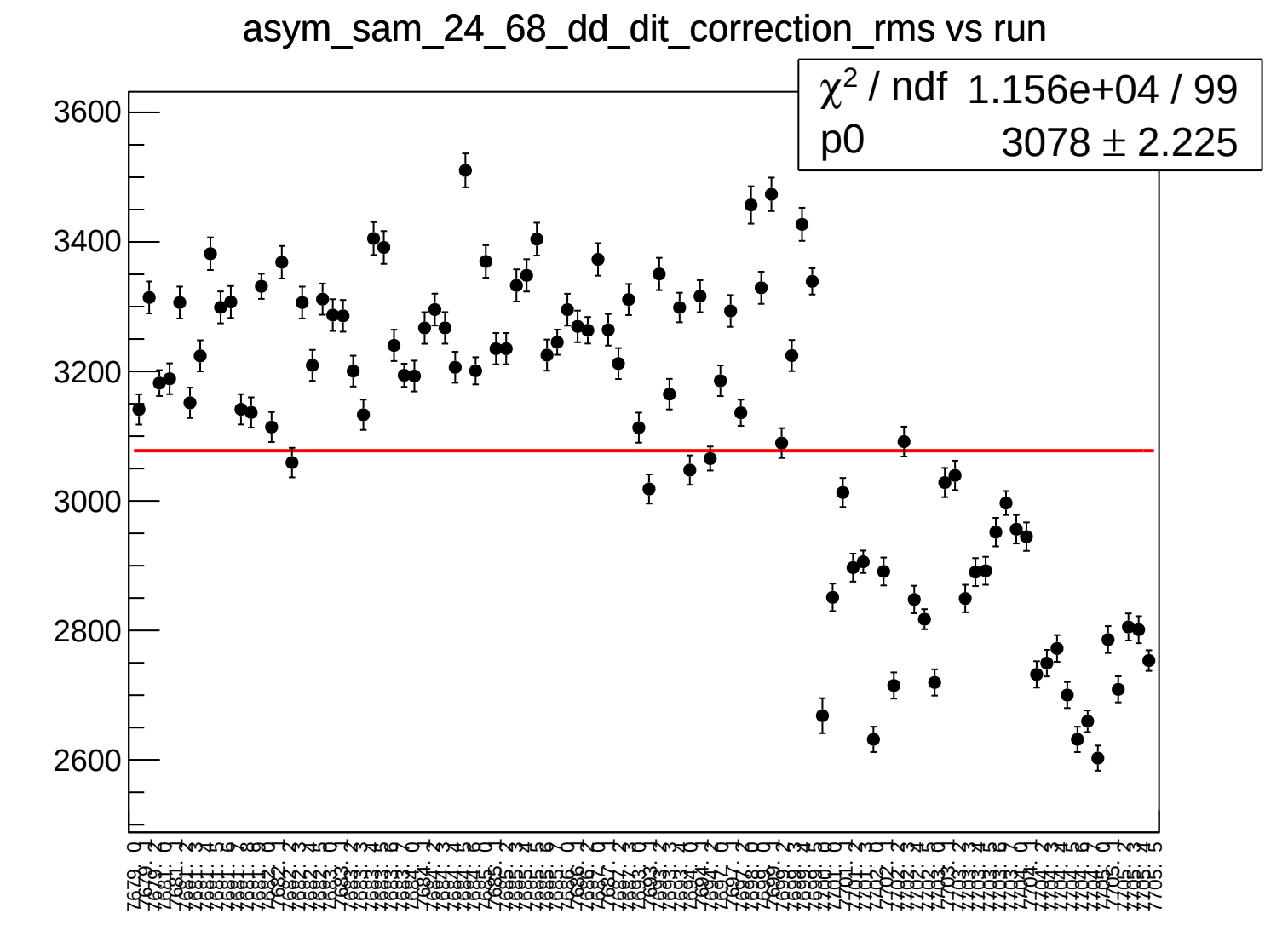

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 108.6 / 99
p0 −78.89 ± 118
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 1454
Std Dev 0
2
1
0
−1
−2
−3

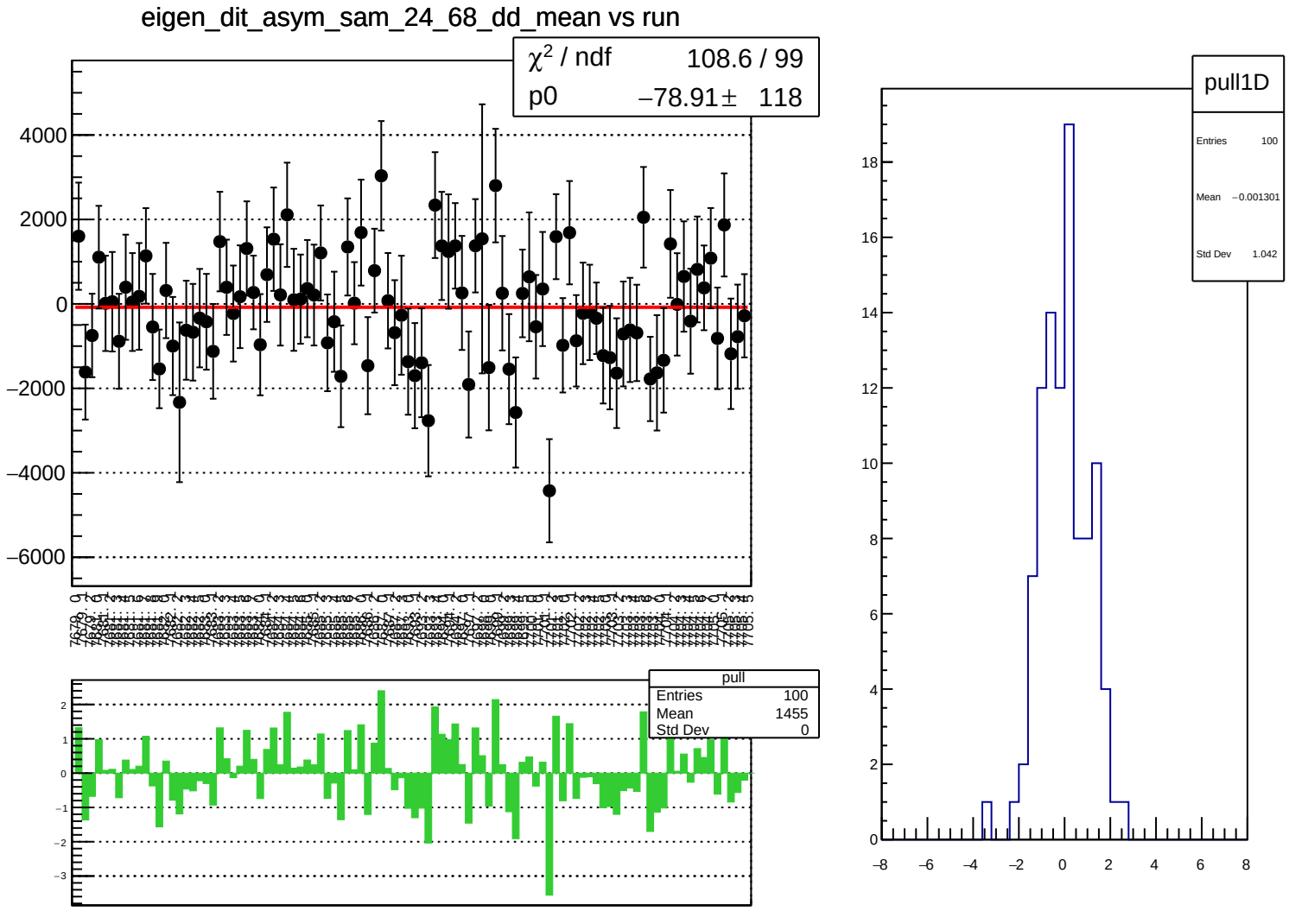

pull1D
Entries 100
Mean −0.001302
Std Dev 1.042
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

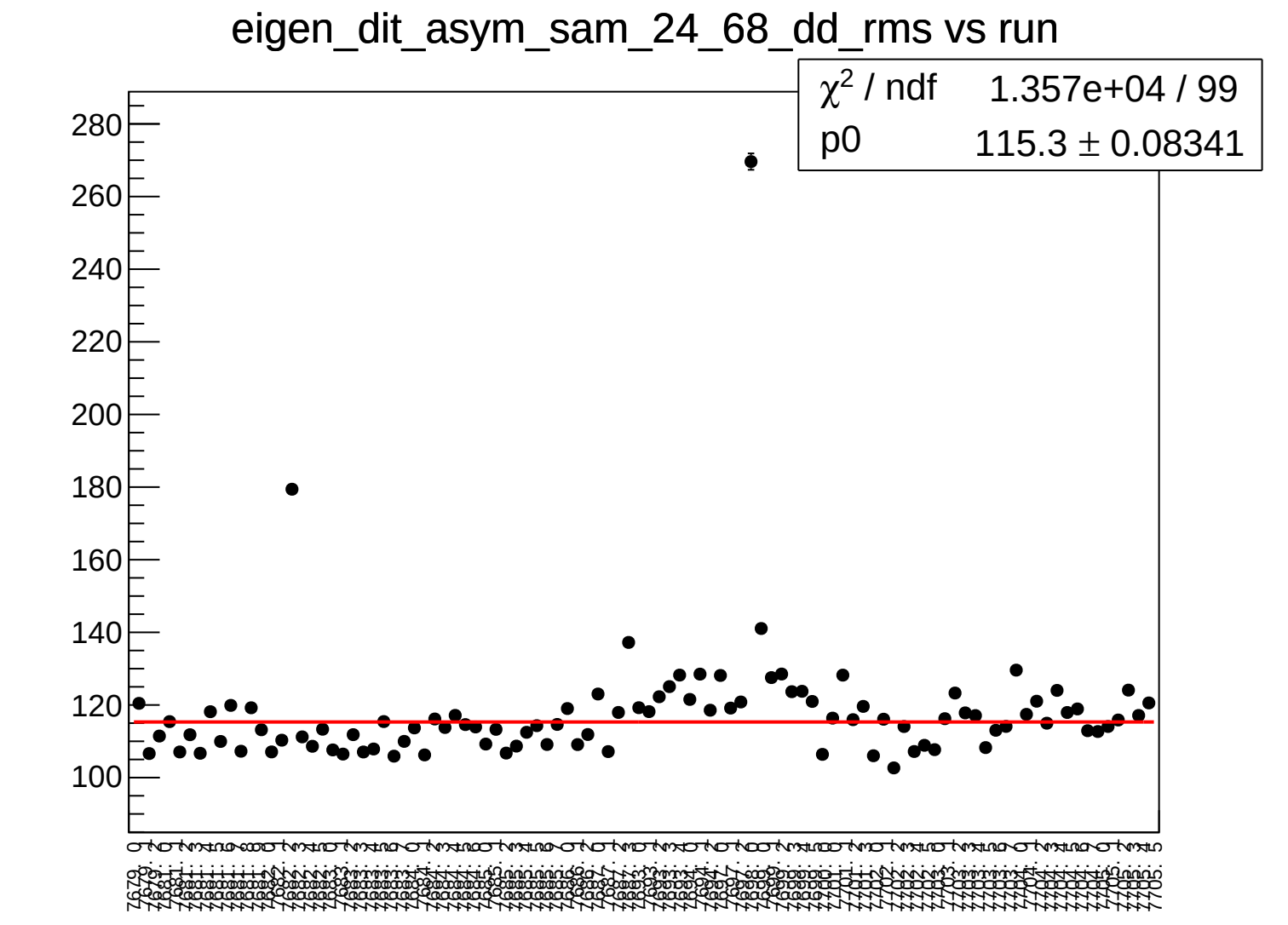

dit_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 1.358e+04 / 99
p0 115.3 ± 0.08341
280
260
240
220
200
180
160
140
120
100

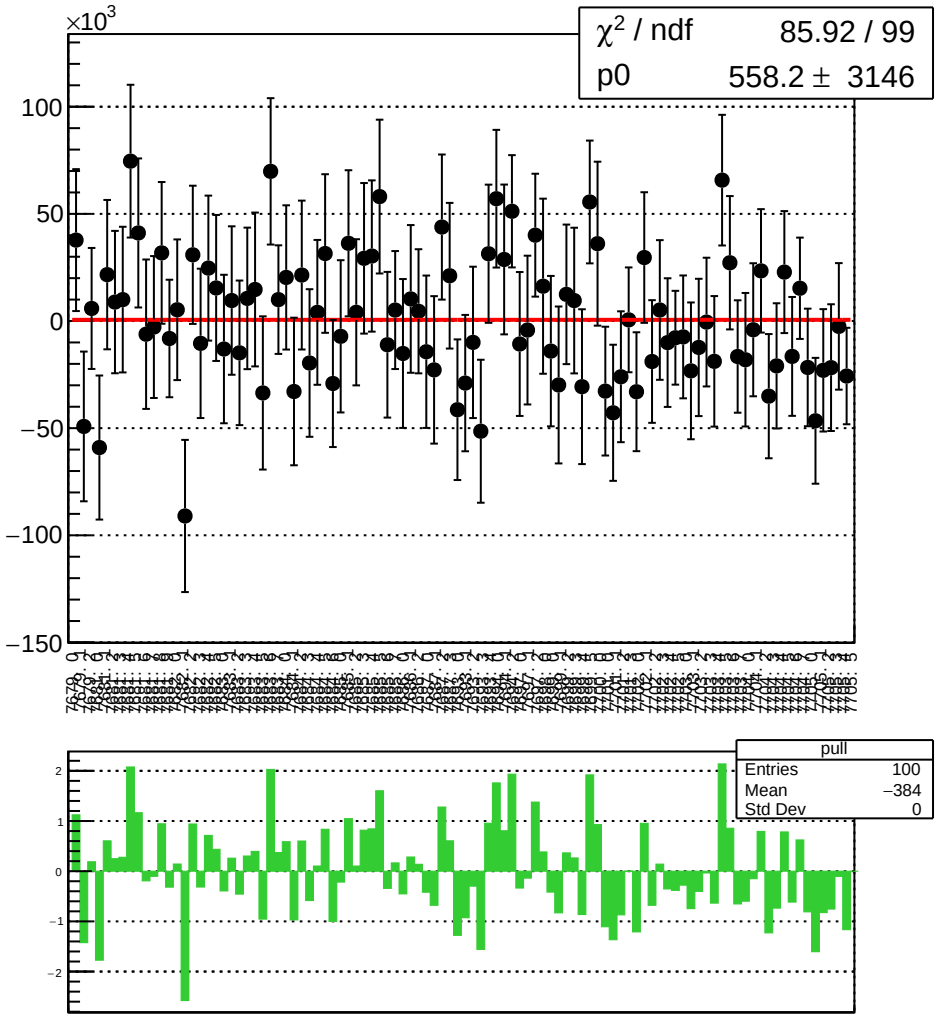

asym_sam_24_68_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 85.92 / 99
p0 558.2 ± 3146
100
50
0
−50
−100
−150
pull
Entries 100
Mean −384
Std Dev 0
2
1
0
−1
−2

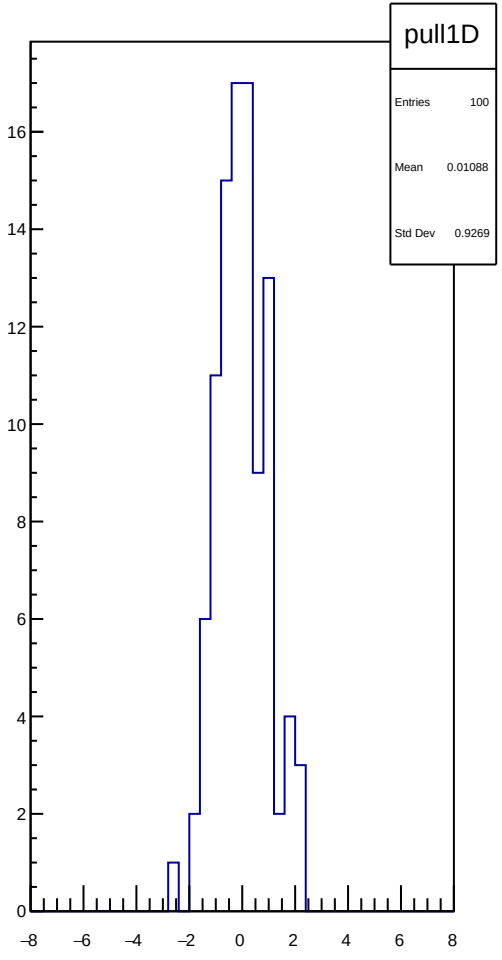

pull1D
Entries 100
Mean 0.01088
Std Dev 0.9269
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

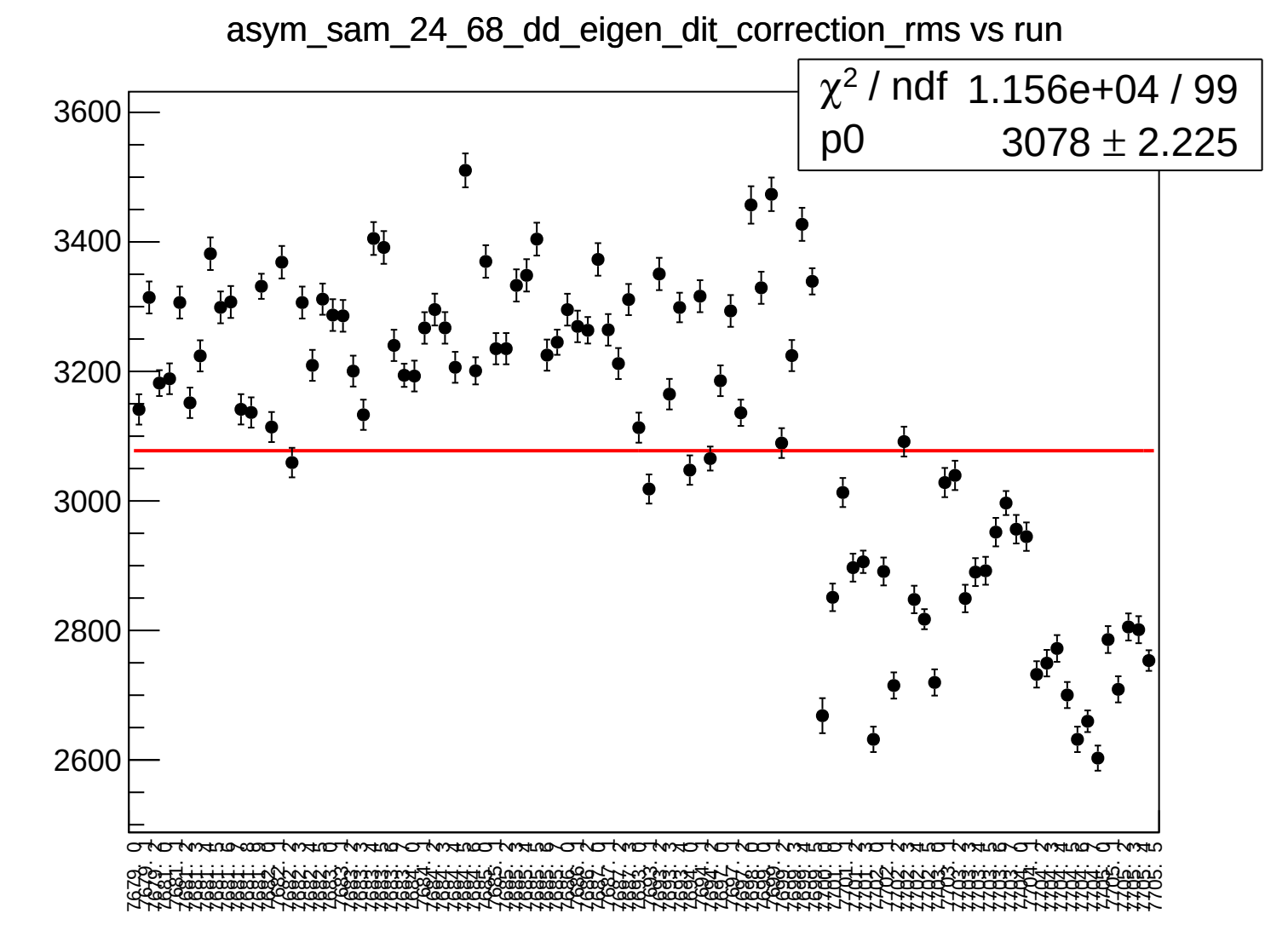

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 1.156e+04 / 99
p0 3078 ± 2.225
3600
3400
3200
3000
2800
2600

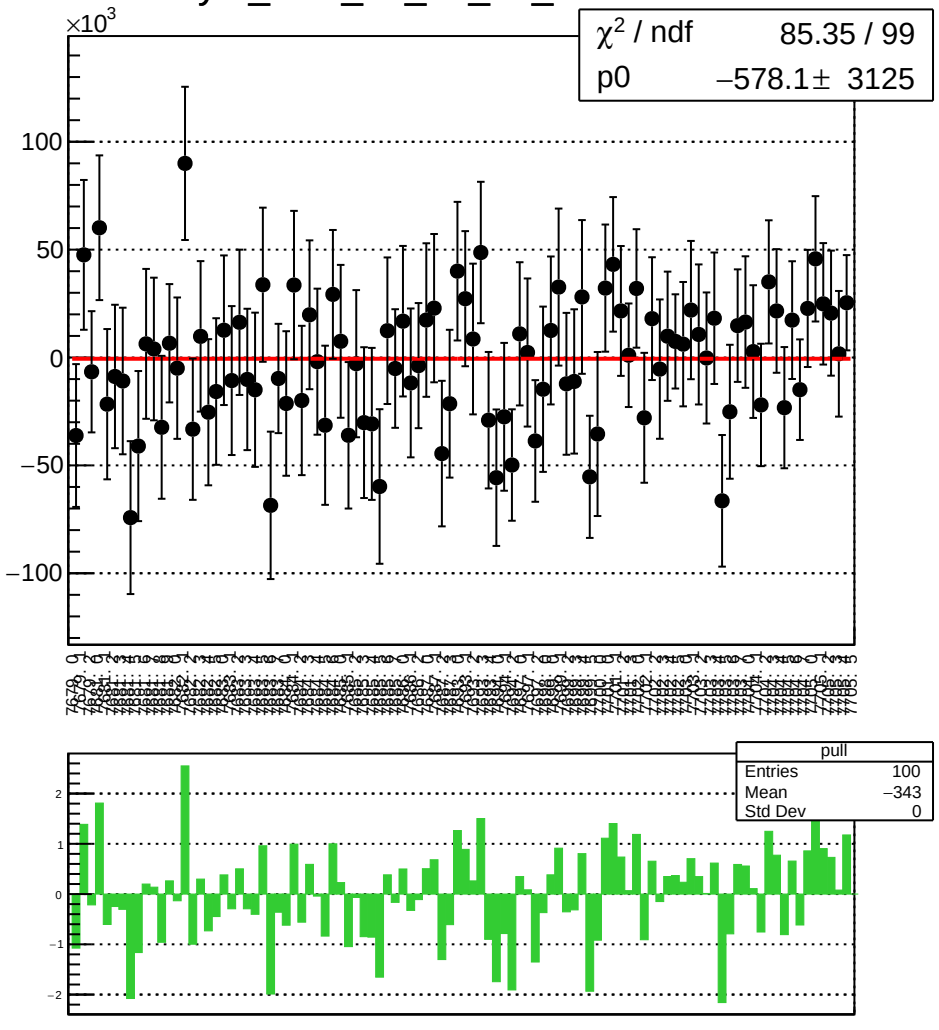

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 108.6 / 99
p0 −78.91 ± 118
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 1455
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean −0.001301
Std Dev 1.042
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

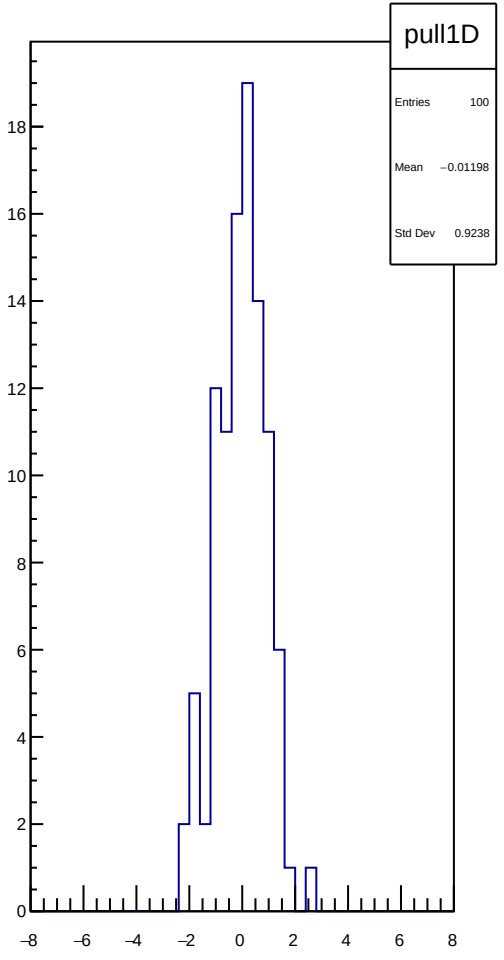

eigen_dit_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 1.357e+04 / 99
p0 115.3 ± 0.08341
280
260
240
220
200
180
160
140
120
100

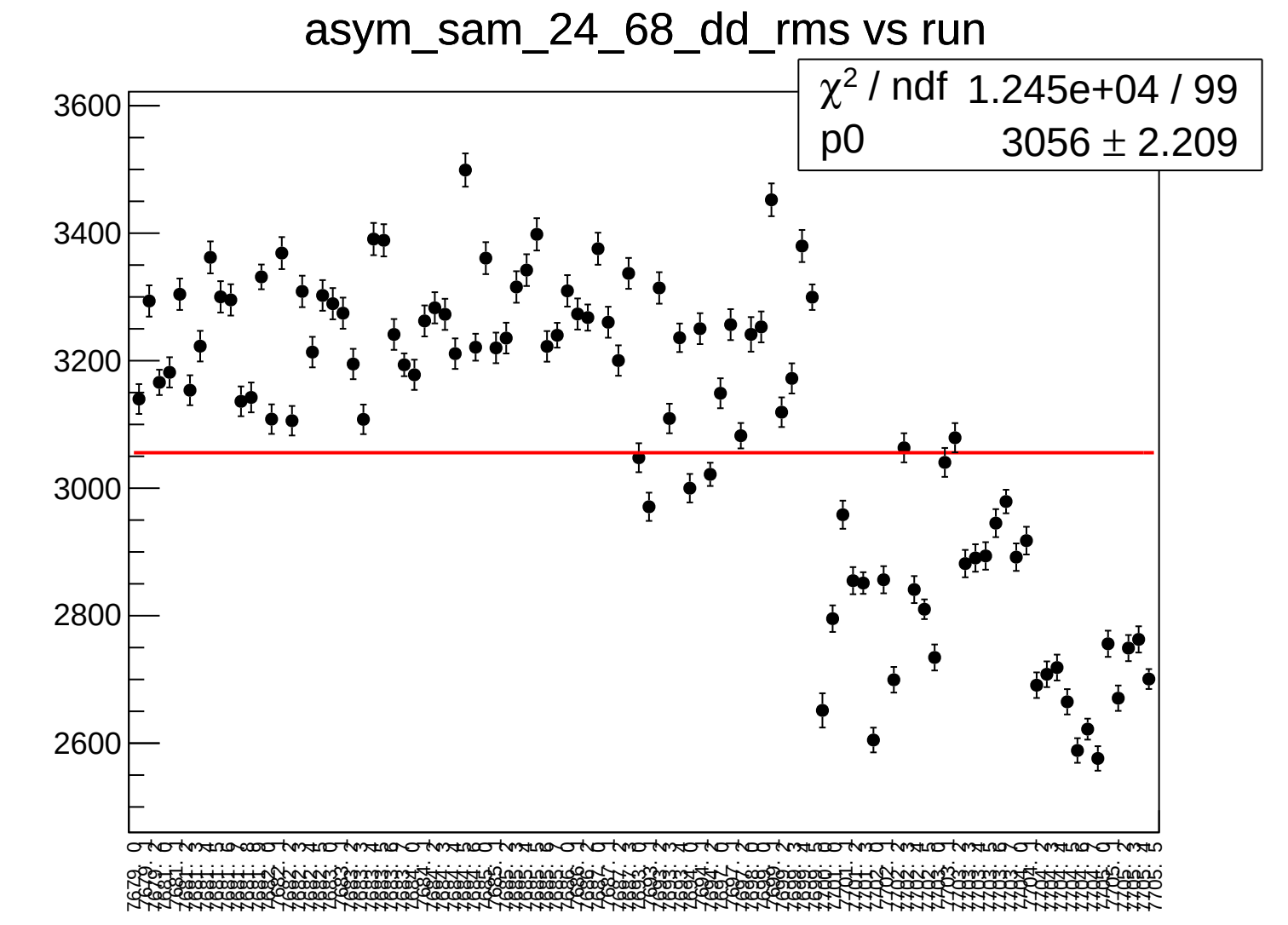

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 85.92 / 99
p0 558.2 ± 3146
100
50
0
−50
−100
−150
pull
Entries 100
Mean −384
Std Dev 0
2
1
0
−1
−2

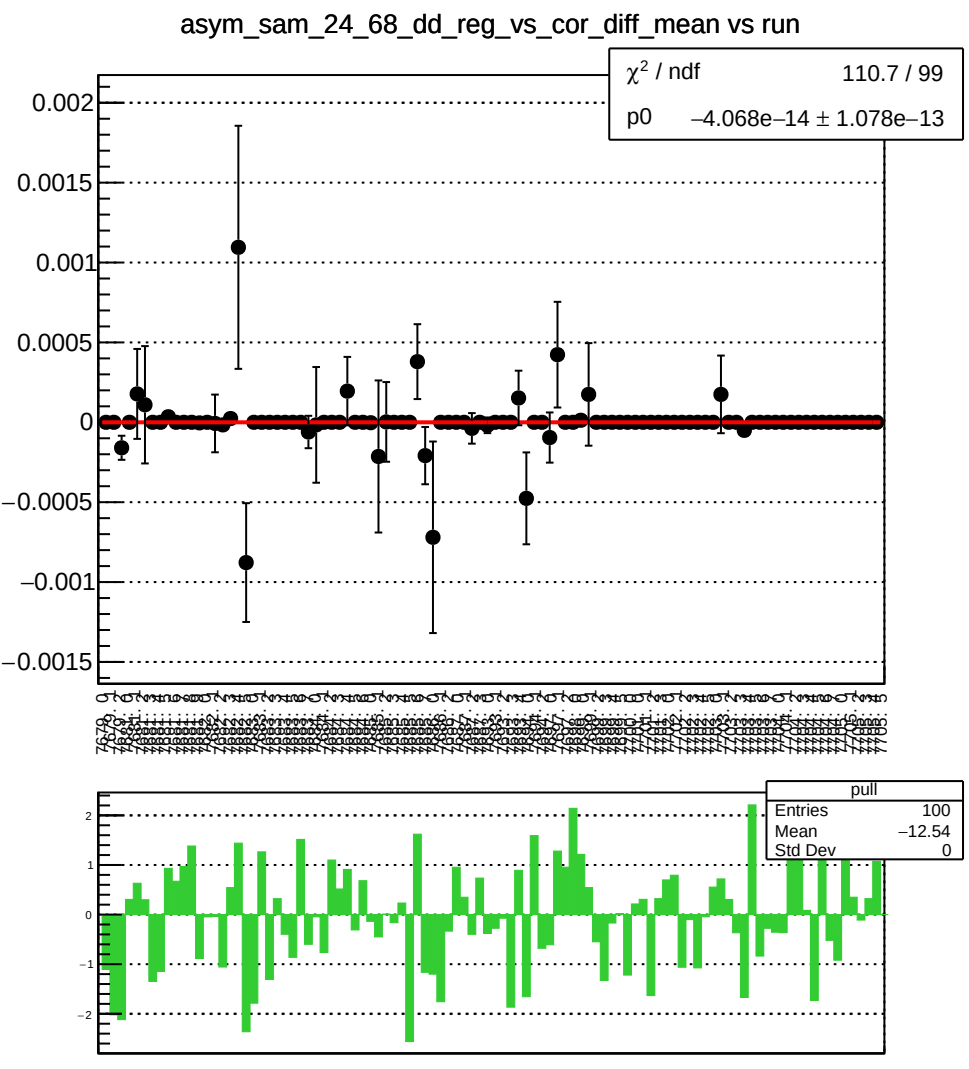

pull1D
Entries 100
Mean 0.01088
Std Dev 0.9269
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

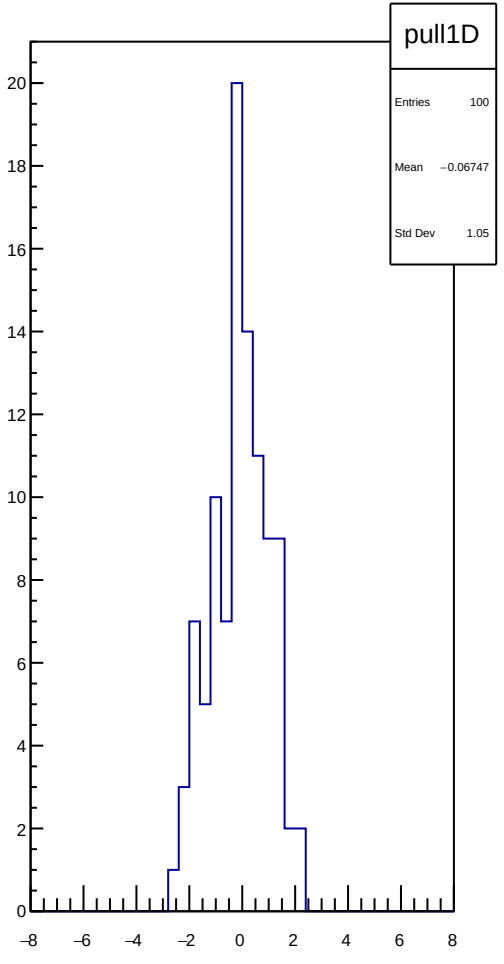

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.156e+04 / 99
p0 3078 ± 2.225
3600
3400
3200
3000
2800
2600

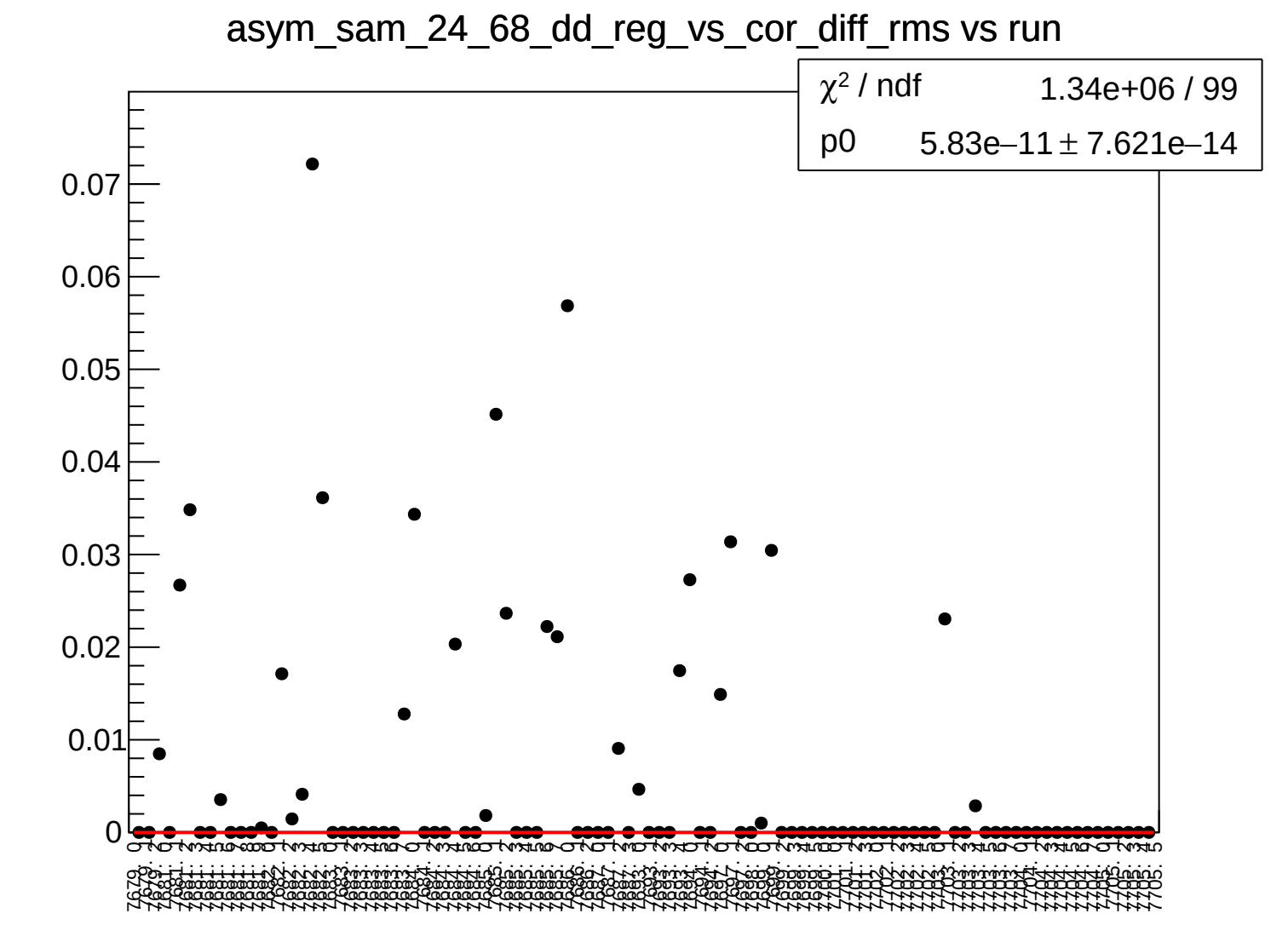

asym_sam_24_68_dd_mean vs run
×10^3
χ^2 / ndf 85.35 / 99
p0 −578.1± 3125
100
50
0
−50
−100
pull
Entries 100
Mean −343
Std Dev 0
2
1
0
−1
−2

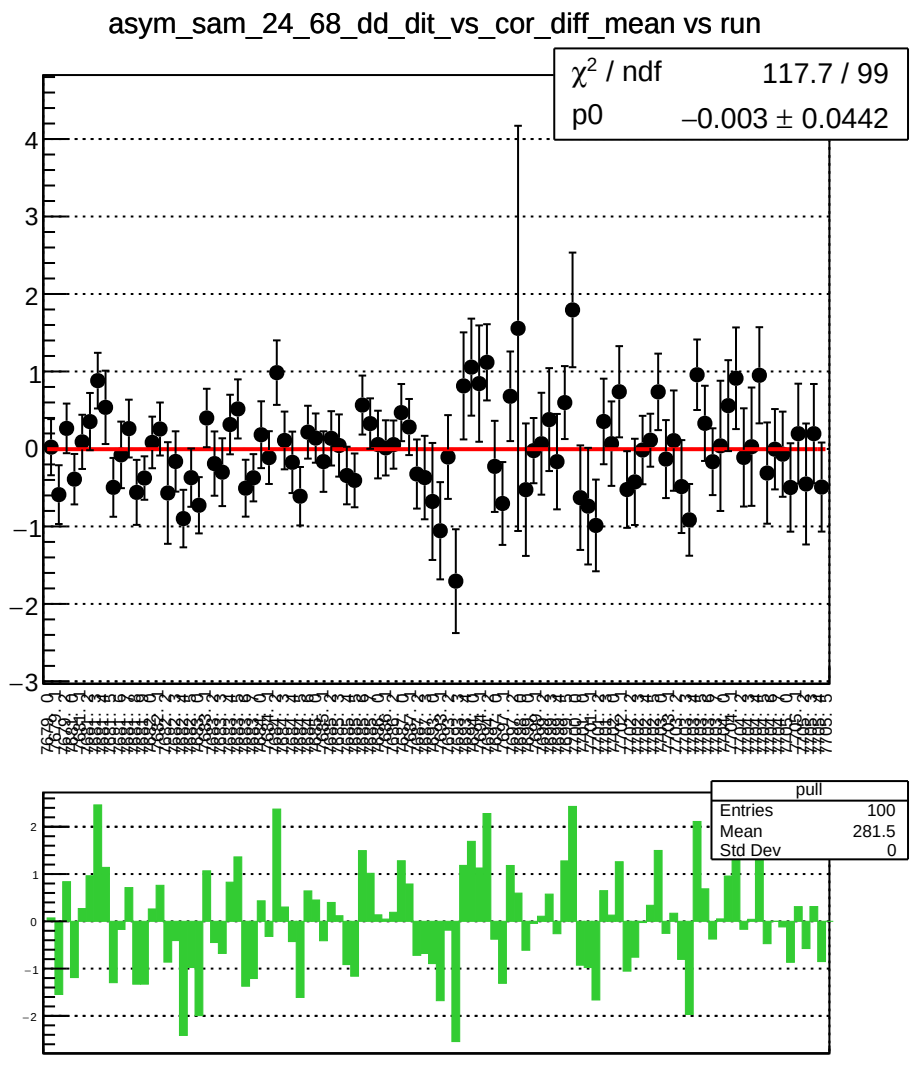

pull1D
Entries 100
Mean −0.01198
Std Dev 0.9238
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

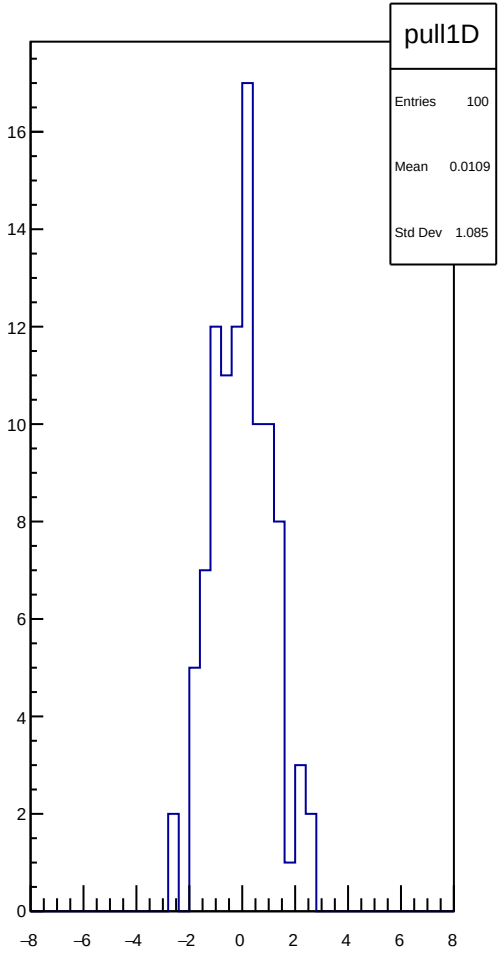

asym_sam_24_68_dd_rms vs run
χ² / ndf 1.245e+04 / 99
p0 3056 ± 2.209
3600
3400
3200
3000
2800
2600

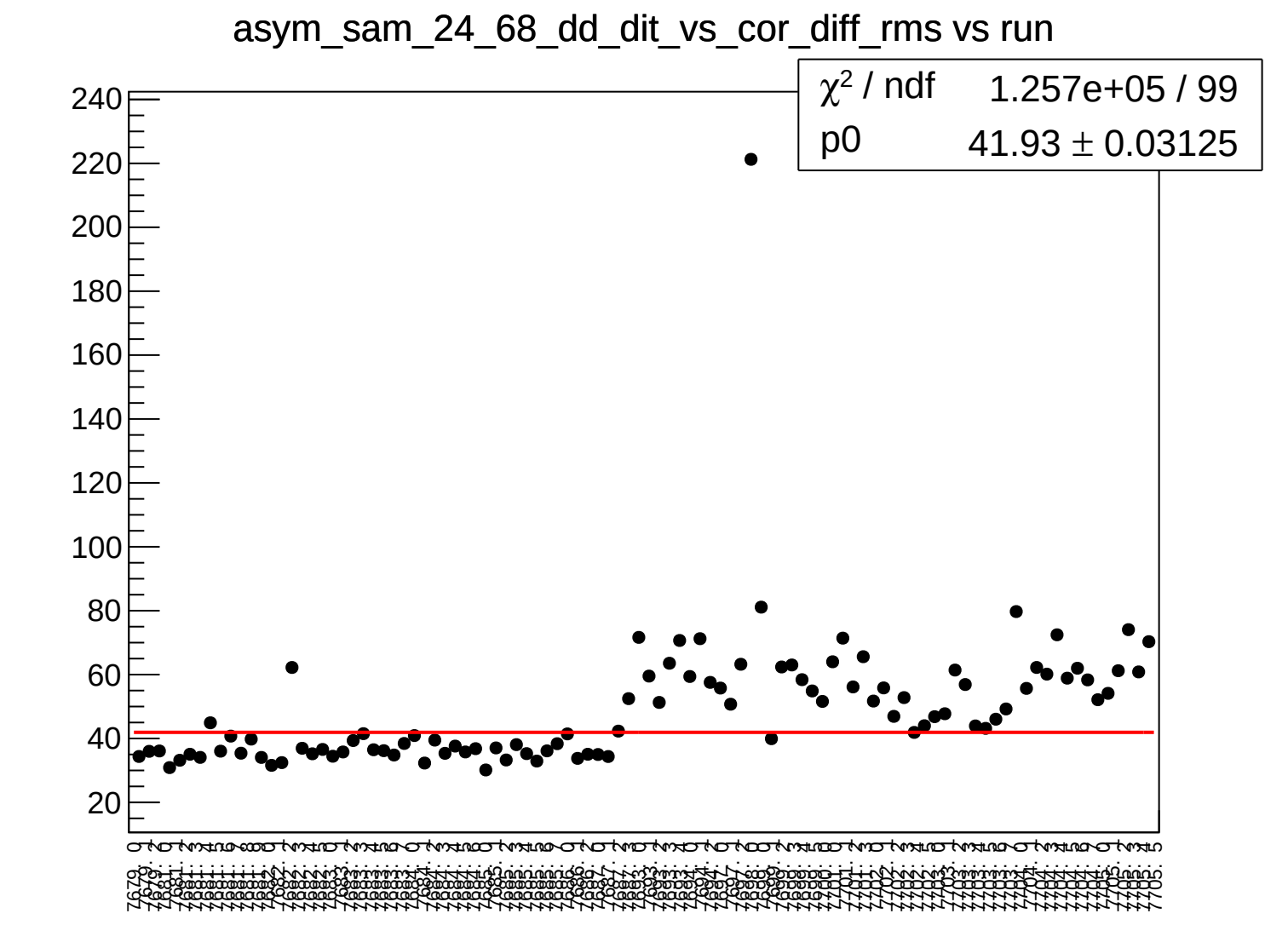

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 110.7 / 99
p0 −4.068e−14 ± 1.078e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 100
Mean −12.54
Std Dev 0
2
1
0
−1
−2

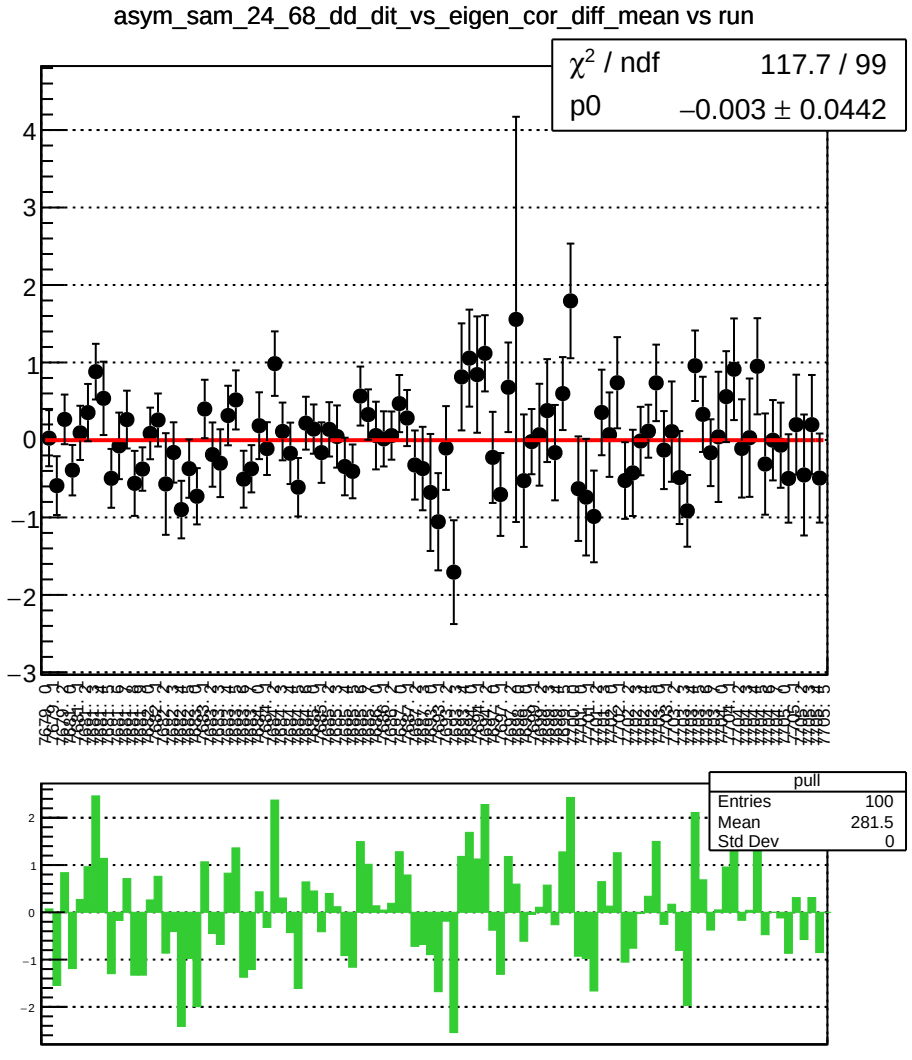

pull1D
Entries 100
Mean −0.06747
Std Dev 1.05
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

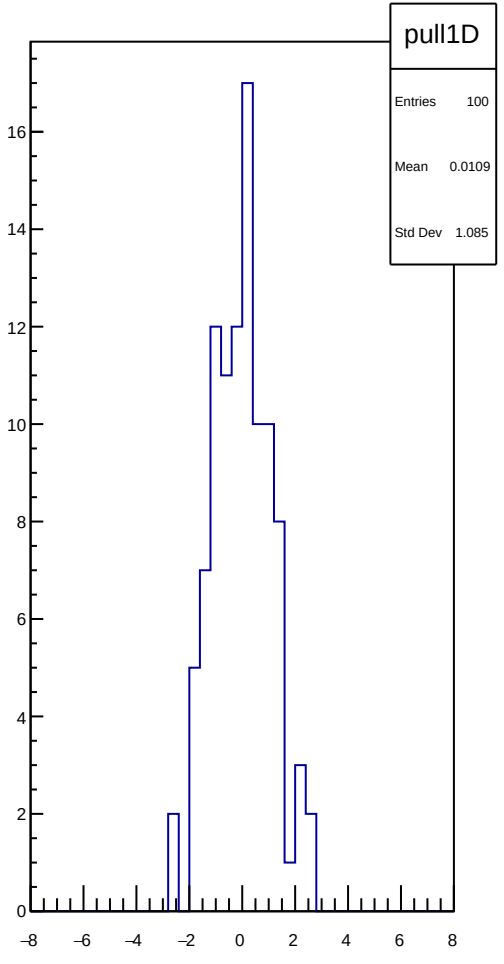

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.34e+06 / 99
p0 5.83e−11 ± 7.621e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

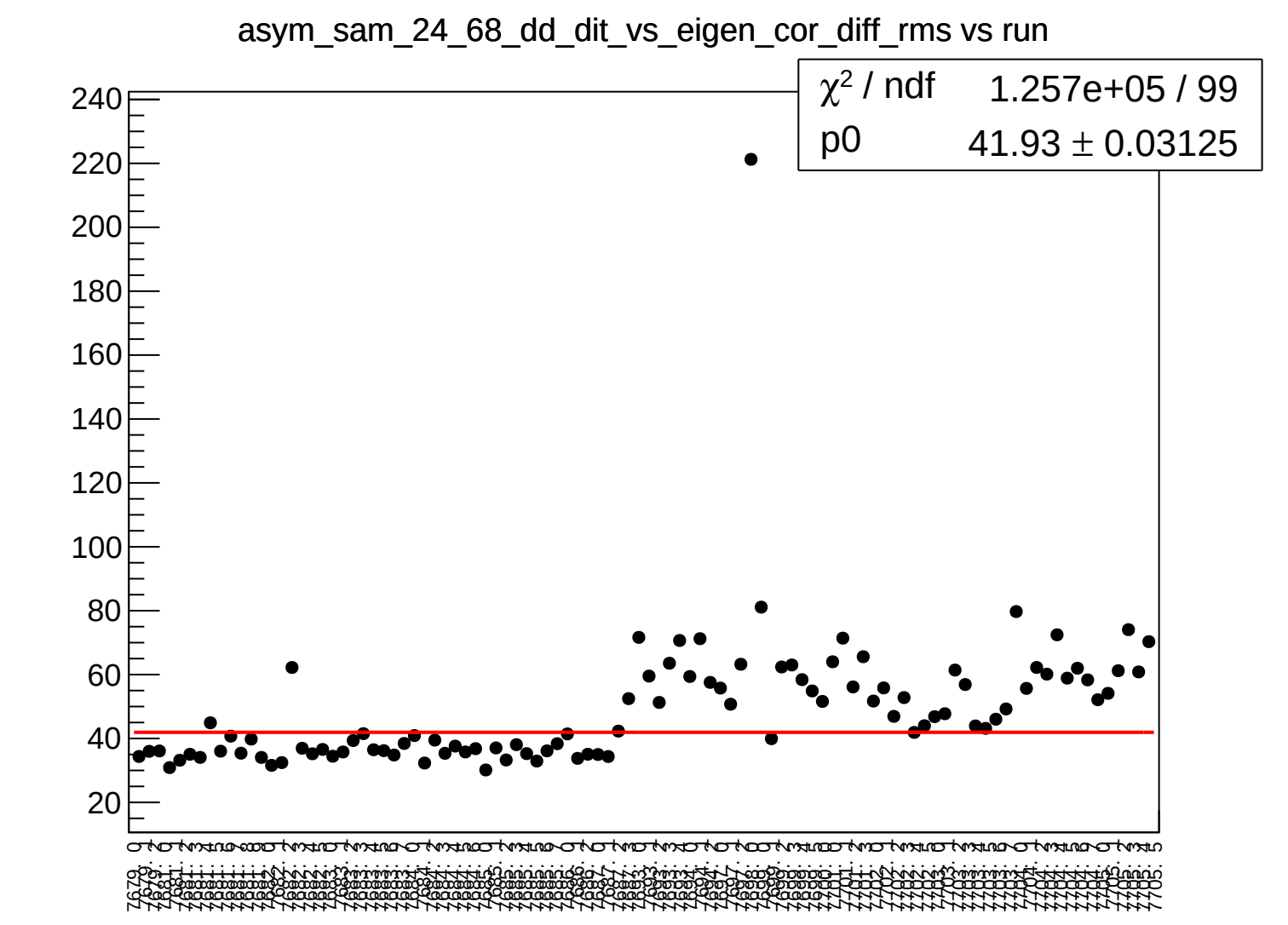

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 117.7 / 99
p0 −0.003 ± 0.0442
pull
Entries 100
Mean 281.5
Std Dev 0

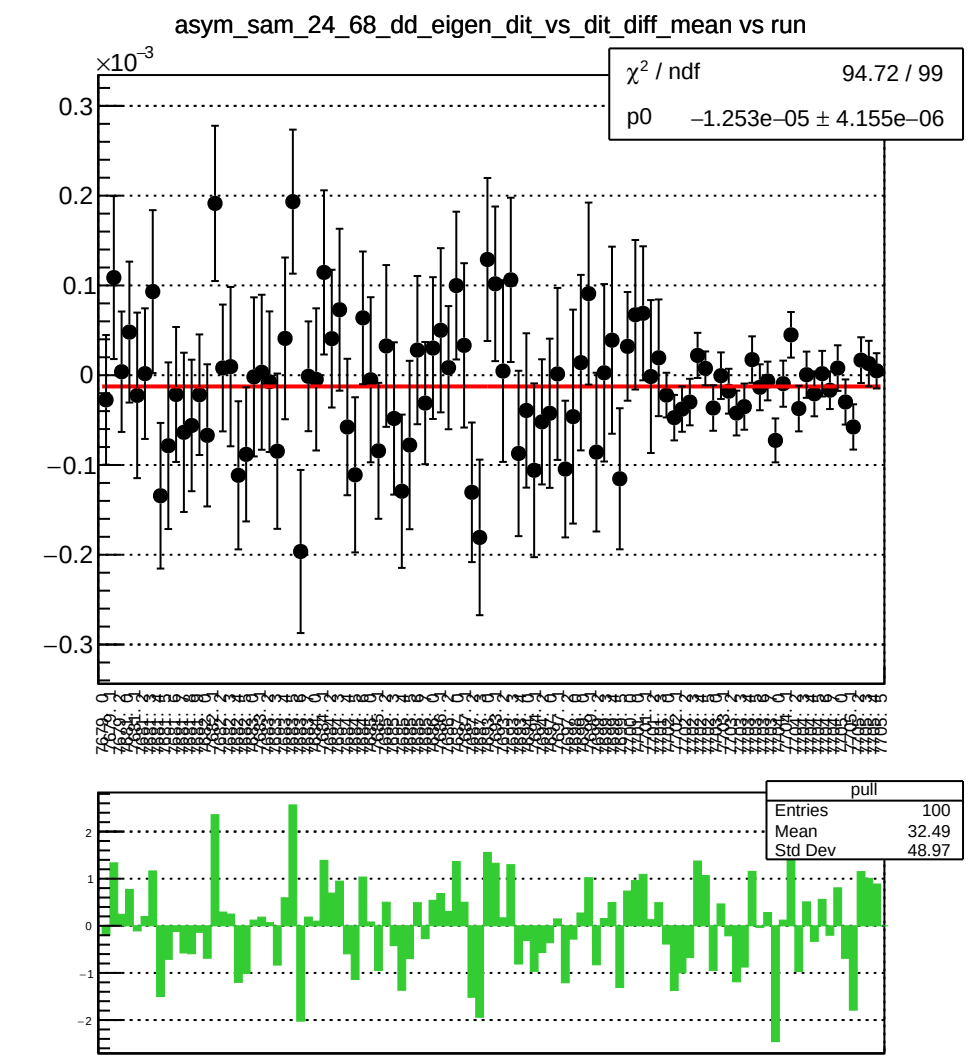

pull1D
Entries 100
Mean 0.0109
Std Dev 1.085

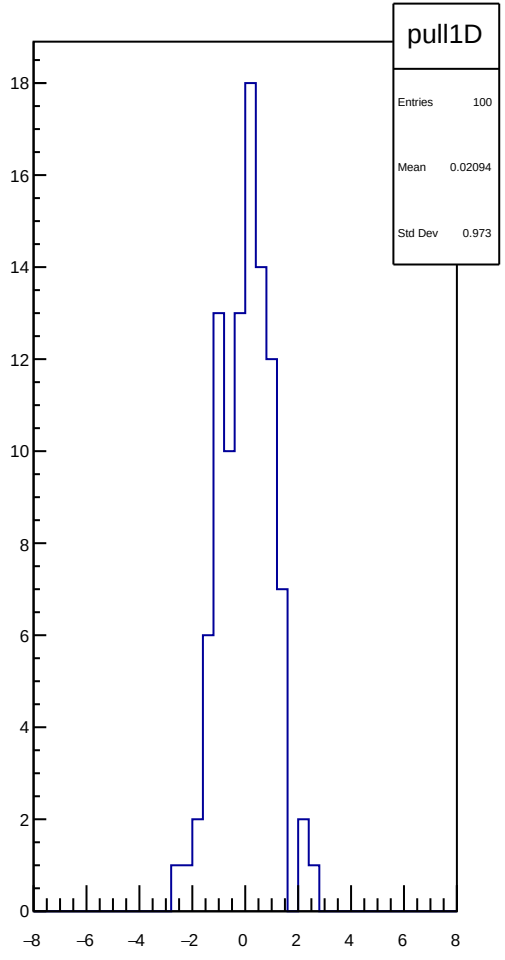

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.257e+05 / 99
p0 41.93 ± 0.03125
240
220
200
180
160
140
120
100
80
60
40
20

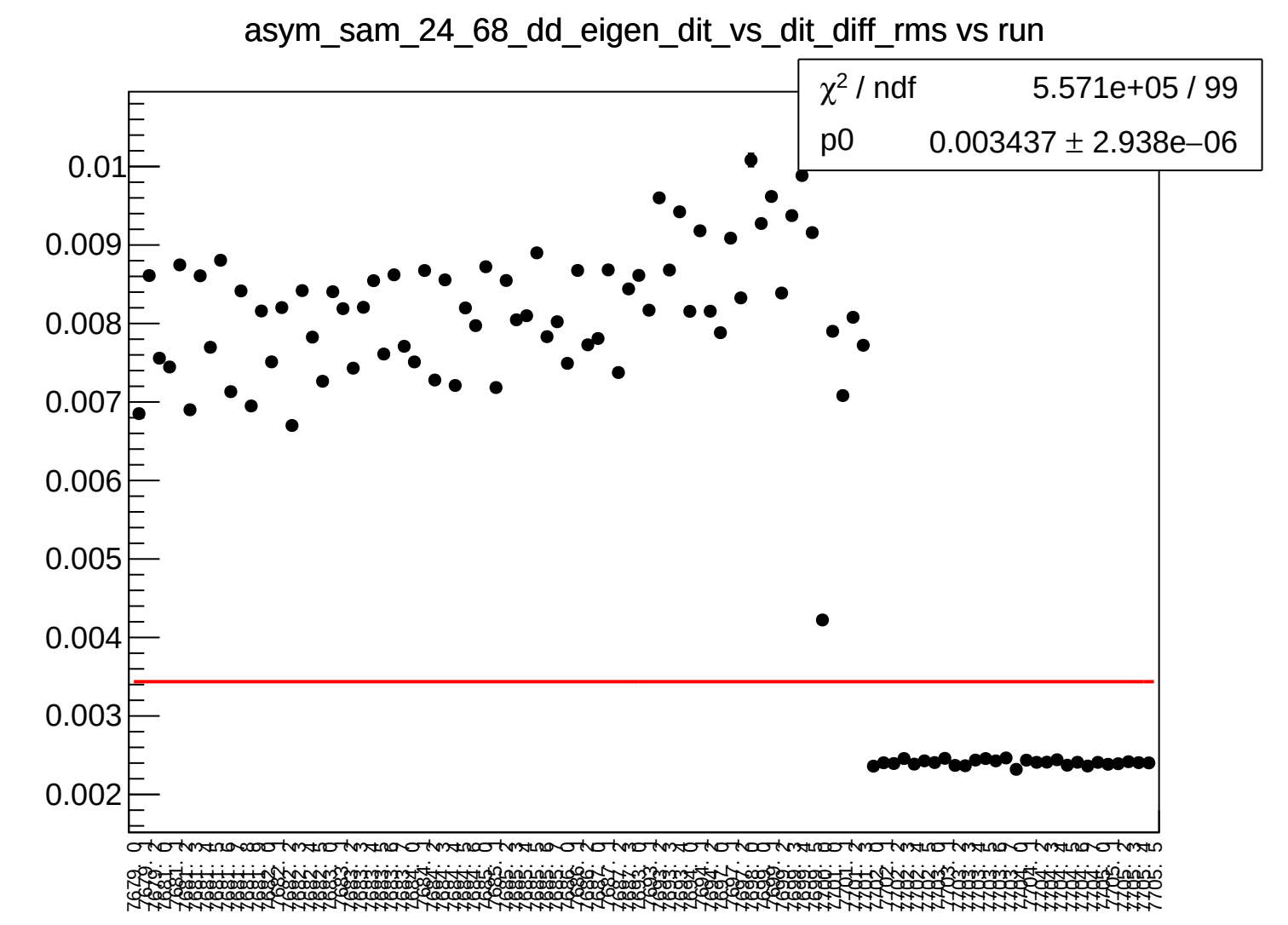

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 117.7 / 99
p0 −0.003 ± 0.0442
pull
Entries 100
Mean 281.5
Std Dev 0

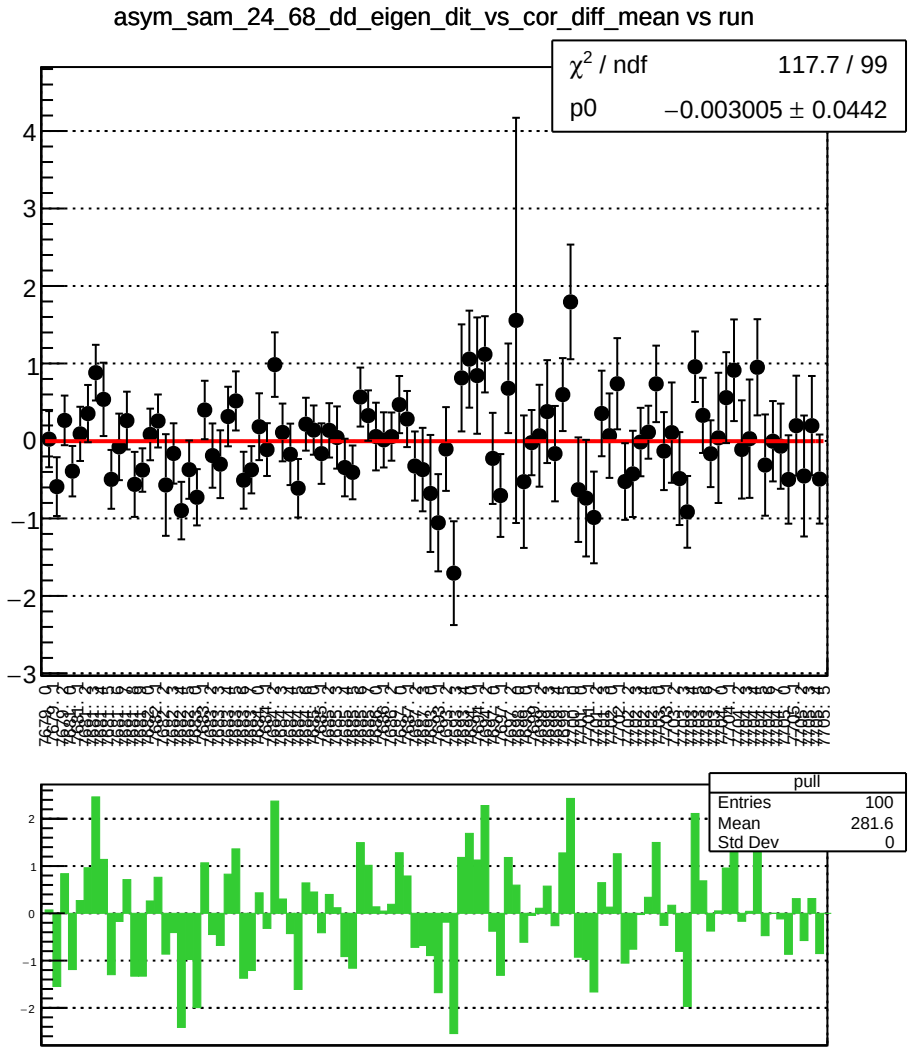

pull1D
Entries 100
Mean 0.0109
Std Dev 1.085

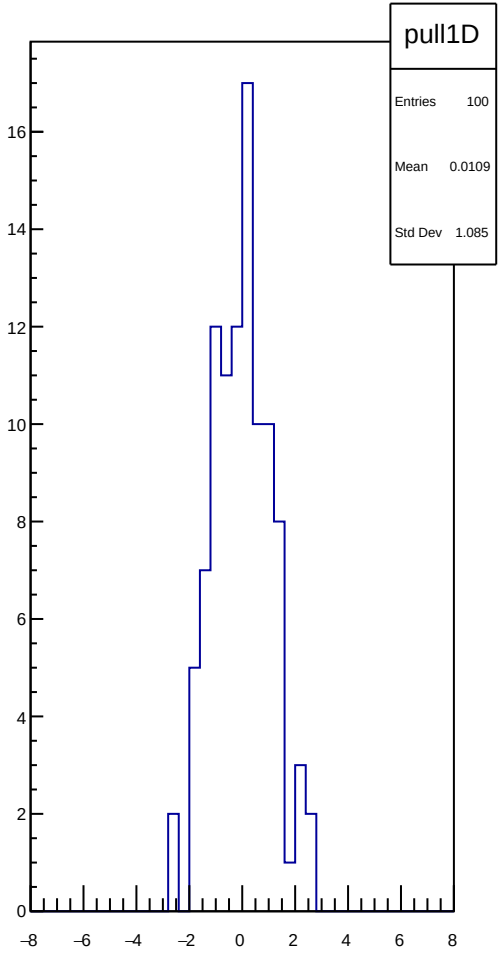

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.257e+05 / 99
p0 41.93 ± 0.03125
240
220
200
180
160
140
120
100
80
60
40
20

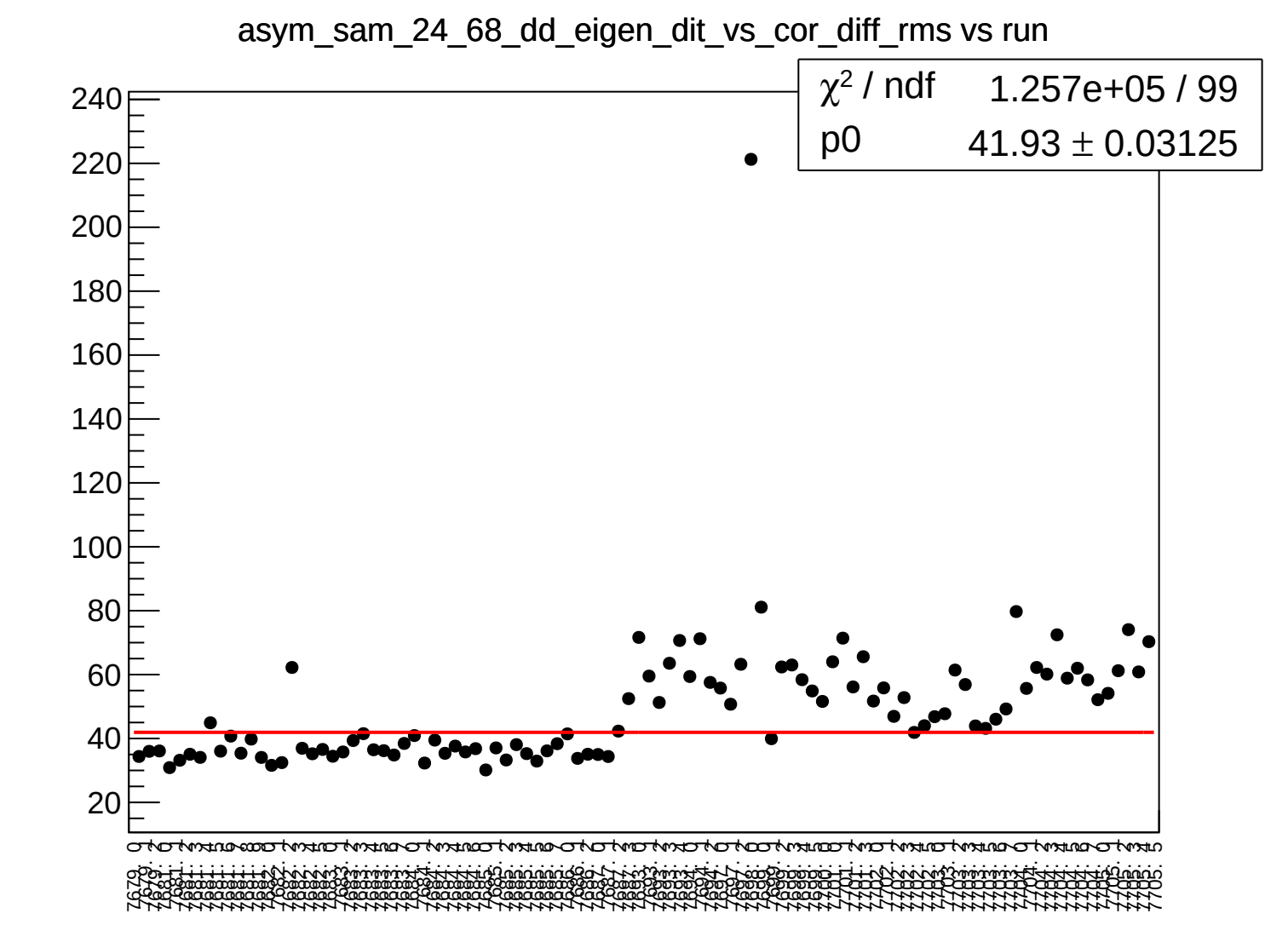

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.72 / 99
p0 −1.253e−05 ± 4.155e−06
pull
Entries 100
Mean 32.49
Std Dev 48.97

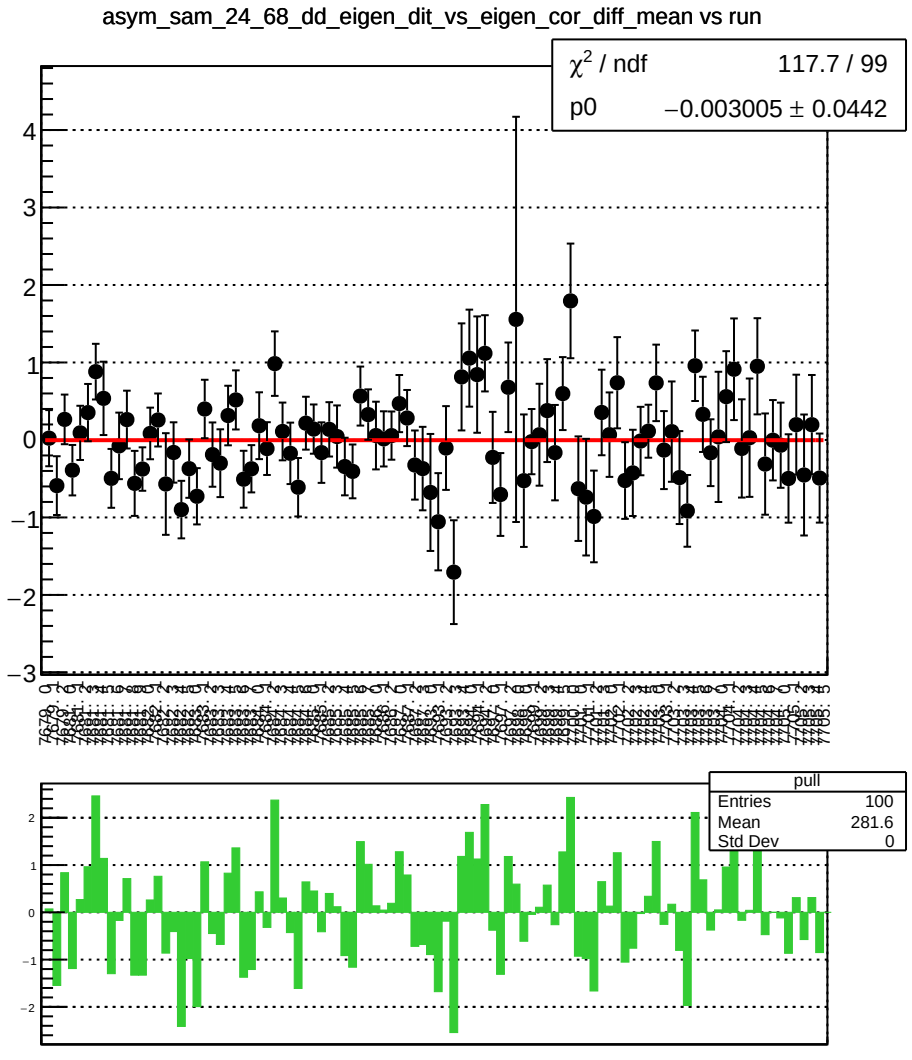

pull1D
Entries 100
Mean 0.02094
Std Dev 0.973

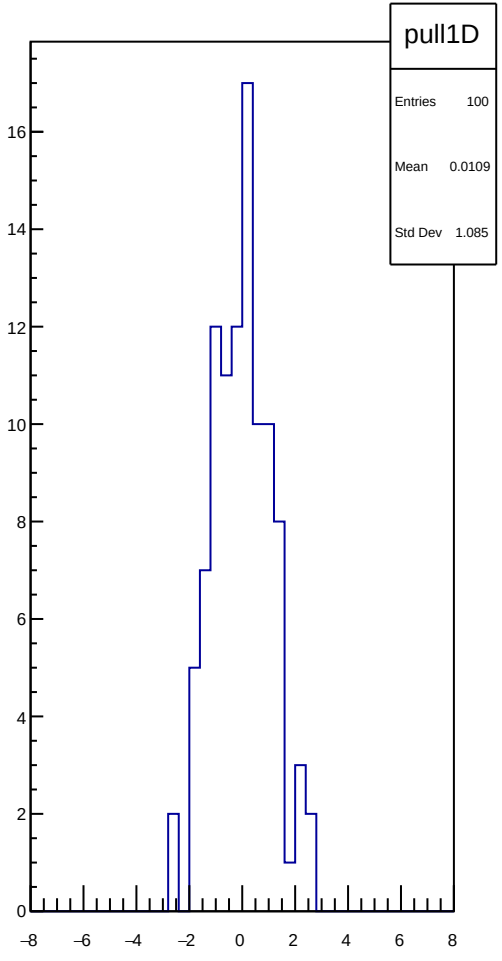

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.571e+05 / 99
p0 0.003437 ± 2.938e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

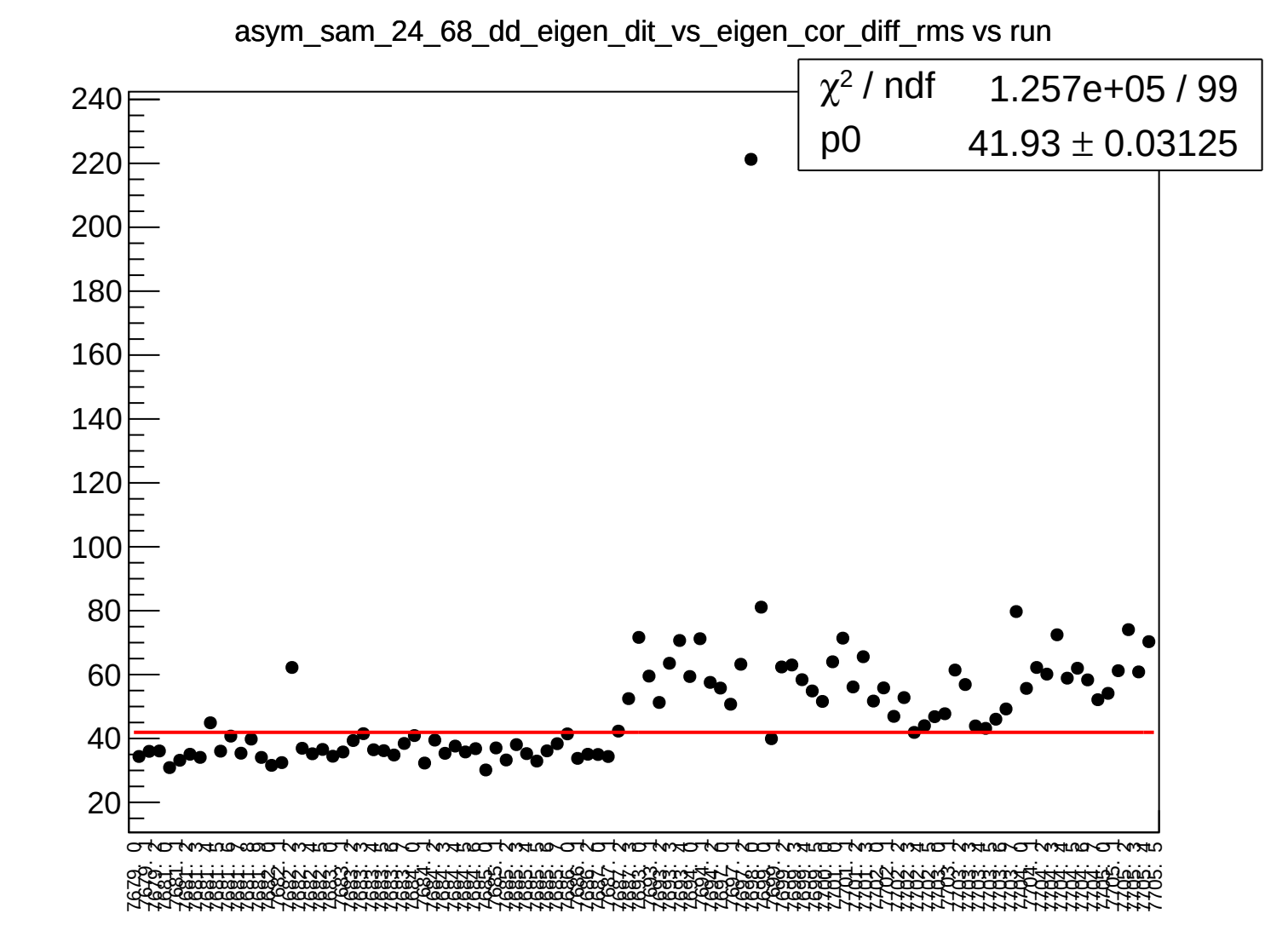

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 117.7 / 99
p0 −0.003005 ± 0.0442
pull
Entries 100
Mean 281.6
Std Dev 0

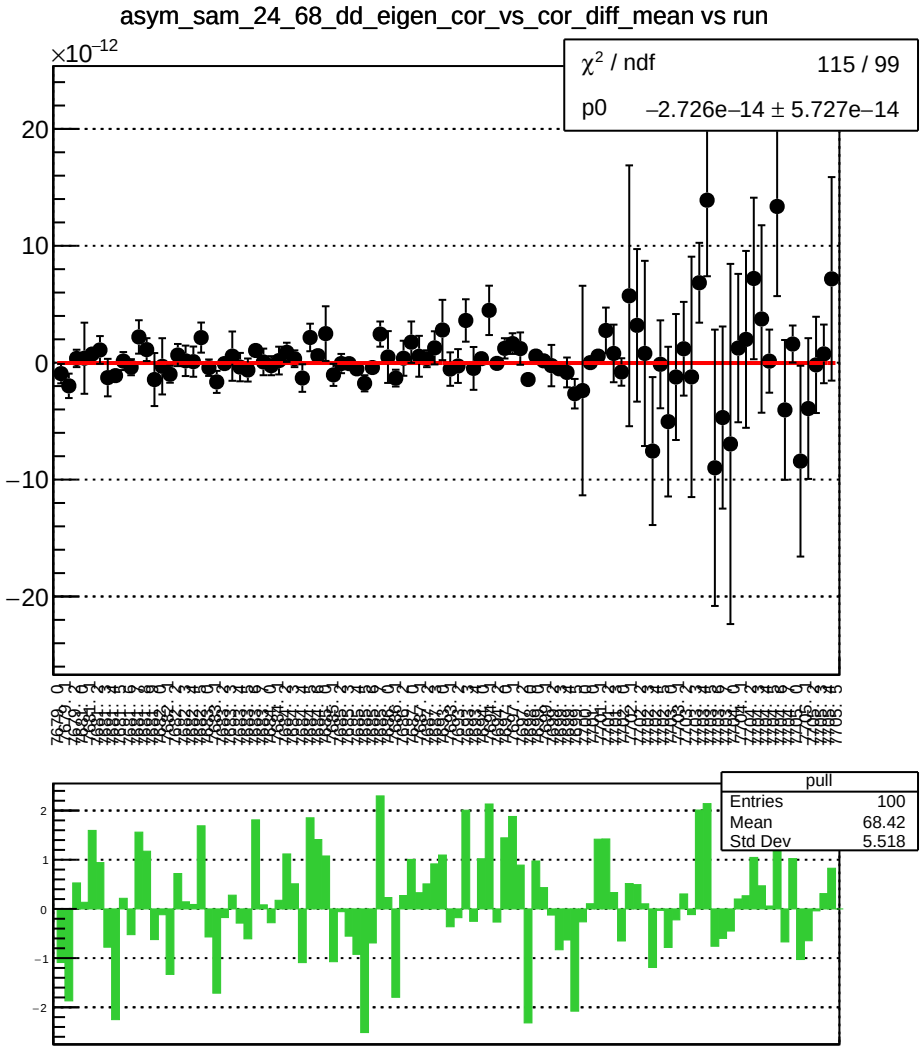

pull1D
Entries 100
Mean 0.0109
Std Dev 1.085

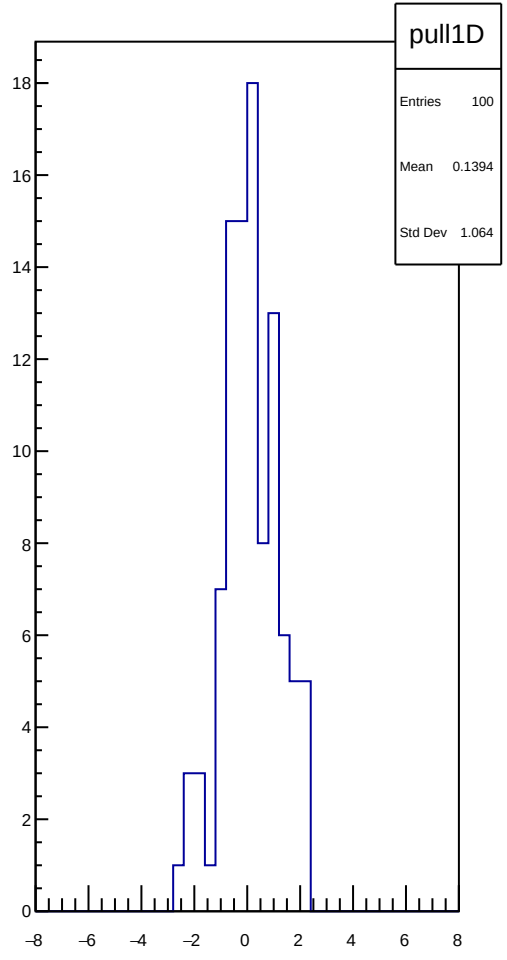

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.257e+05 / 99
p0 41.93 ± 0.03125
240
220
200
180
160
140
120
100
80
60
40
20

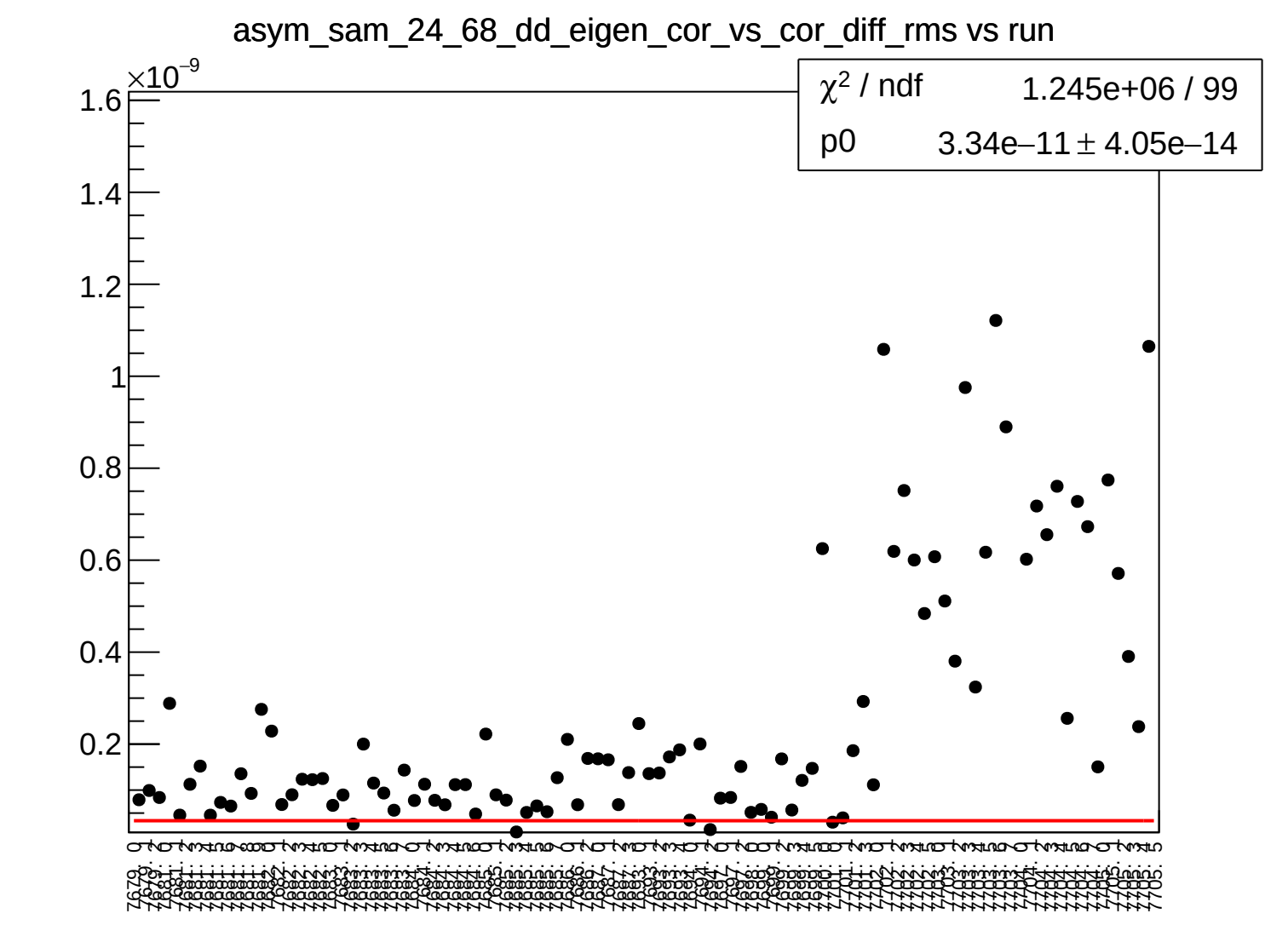

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 117.7 / 99
p0 −0.003005 ± 0.0442
pull
Entries 100
Mean 281.6
Std Dev 0

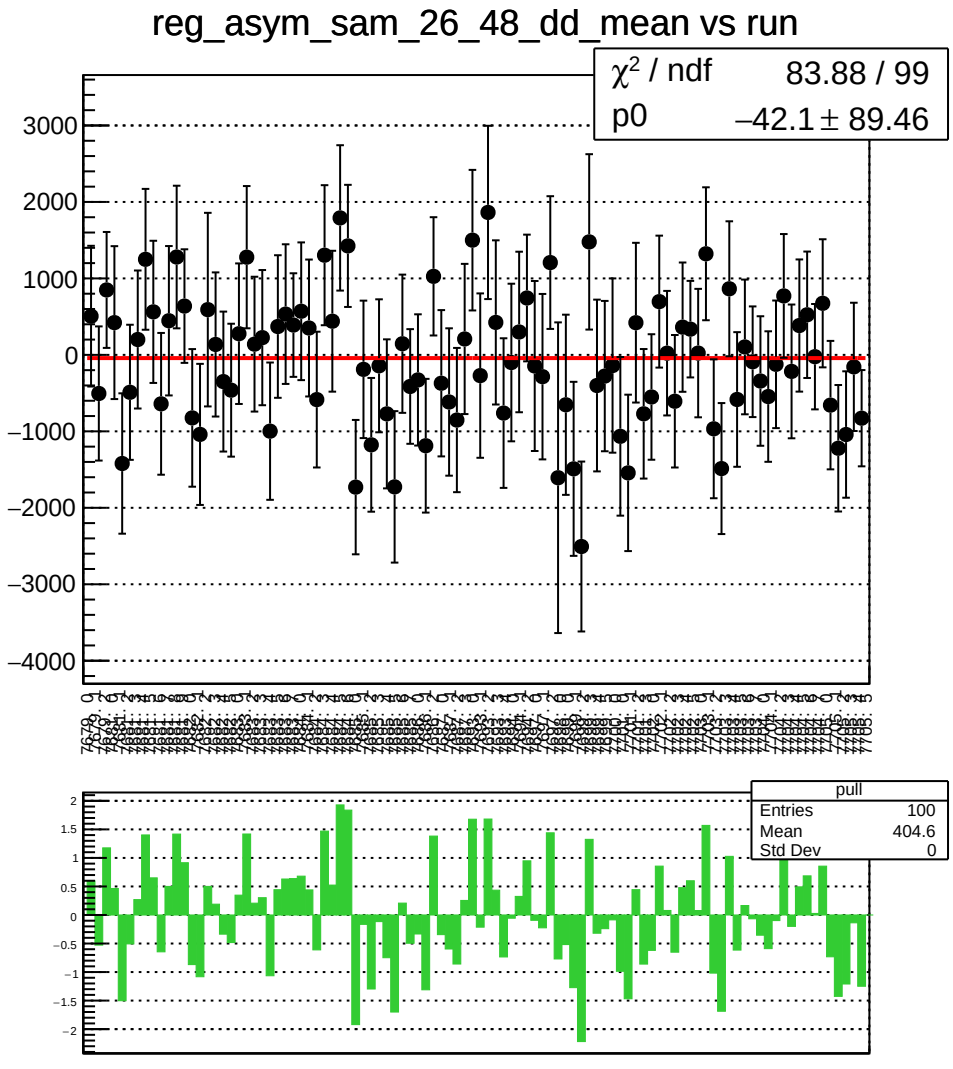

pull1D
Entries 100
Mean 0.0109
Std Dev 1.085

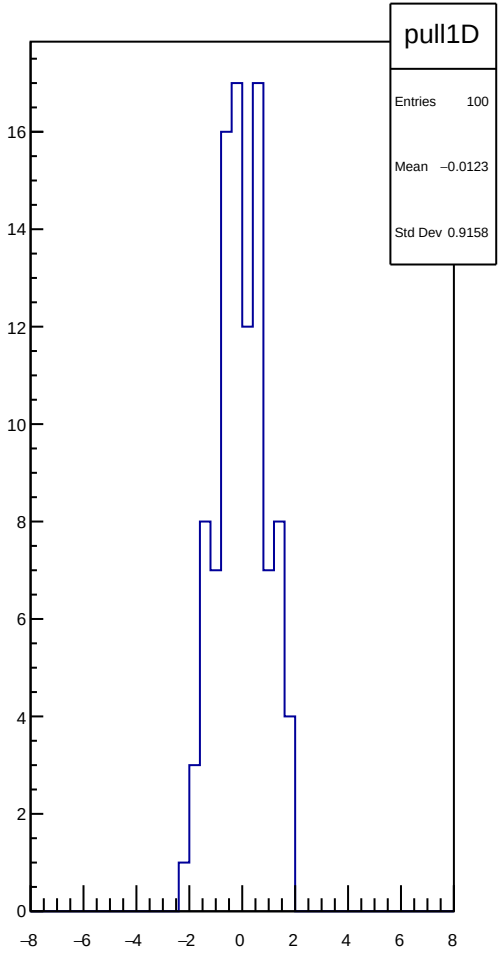

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.257e+05 / 99
p0 41.93 ± 0.03125
240
220
200
180
160
140
120
100
80
60
40
20

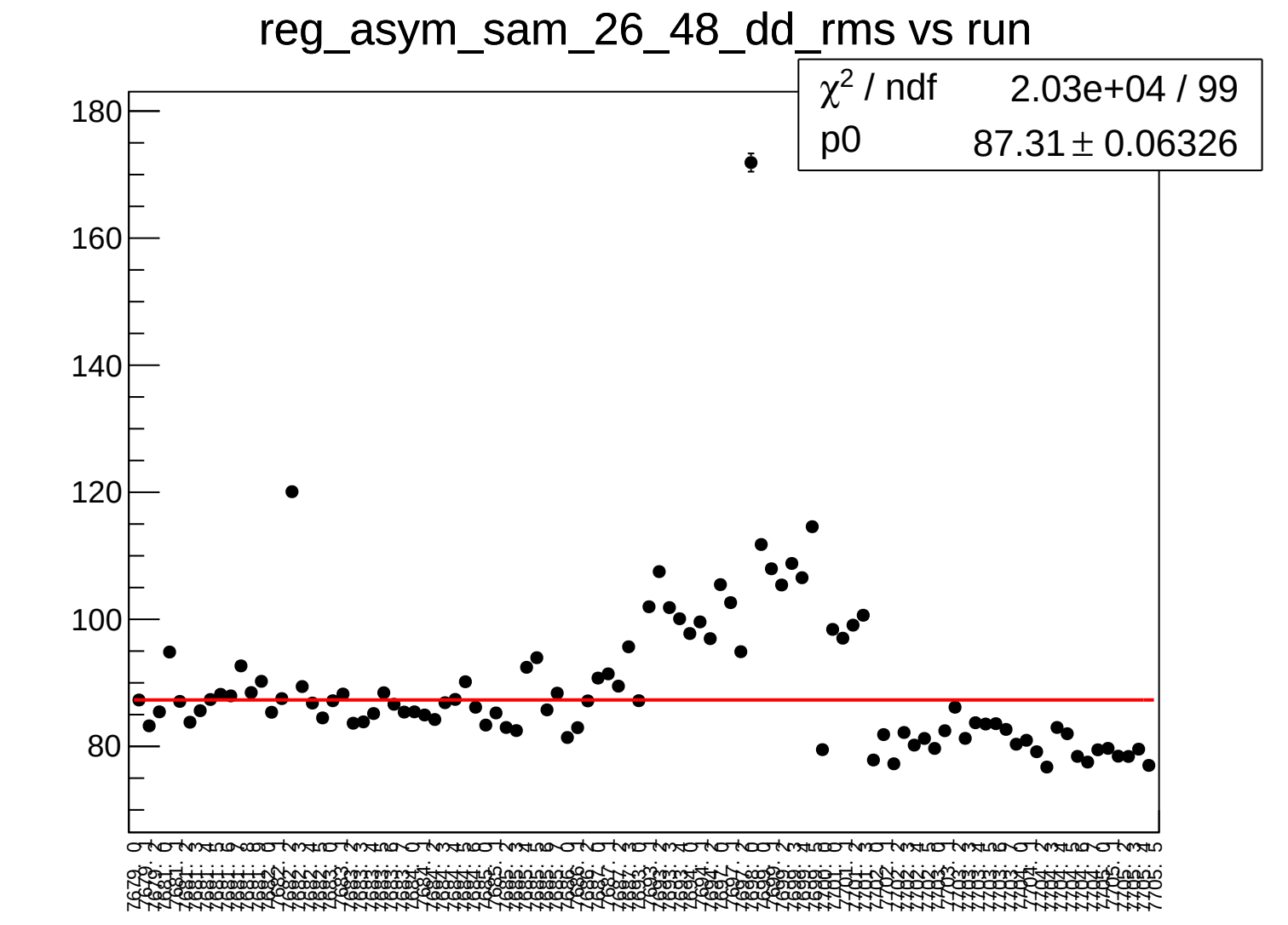

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 115 / 99
p0 −2.726e−14 ± 5.727e−14
20
10
0
−10
−20
pull
Entries 100
Mean 68.42
Std Dev 5.518
2
1
0
−1
−2

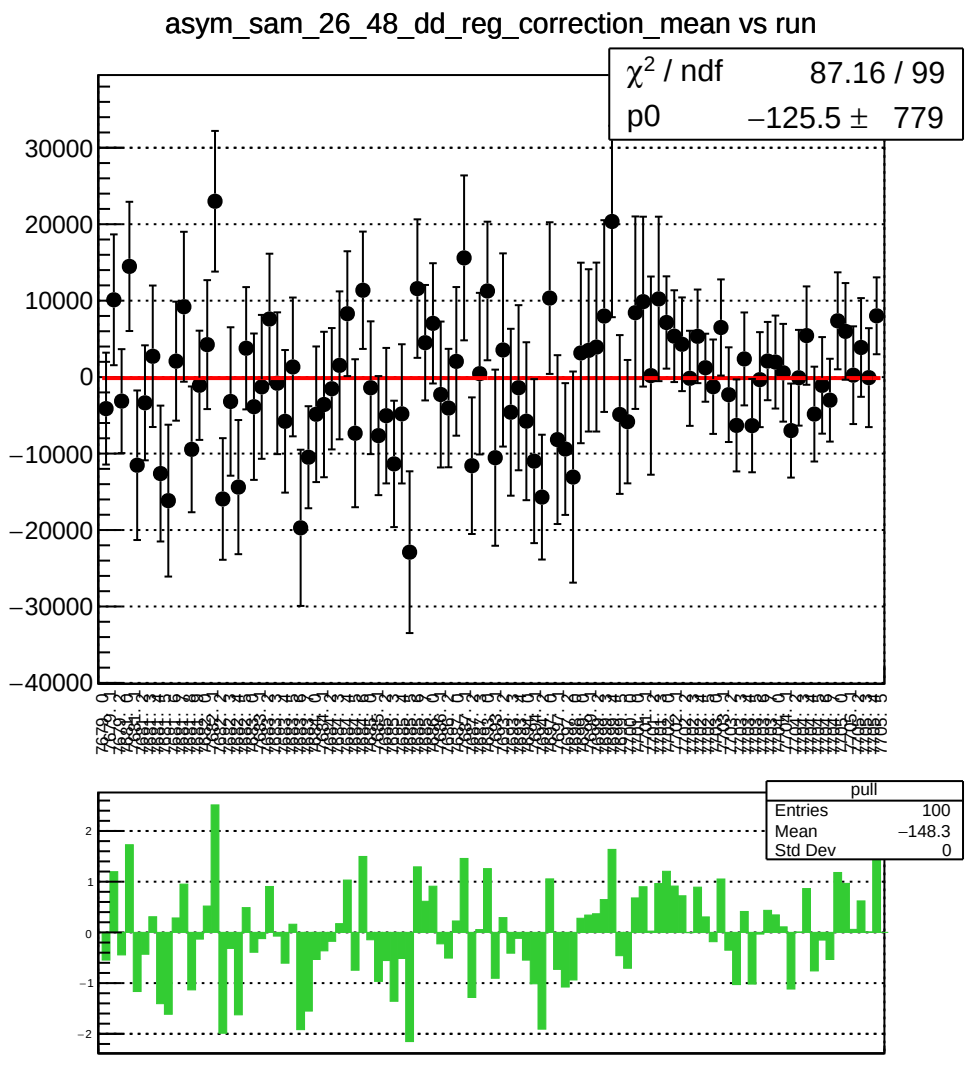

pull1D
Entries 100
Mean 0.1394
Std Dev 1.064
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

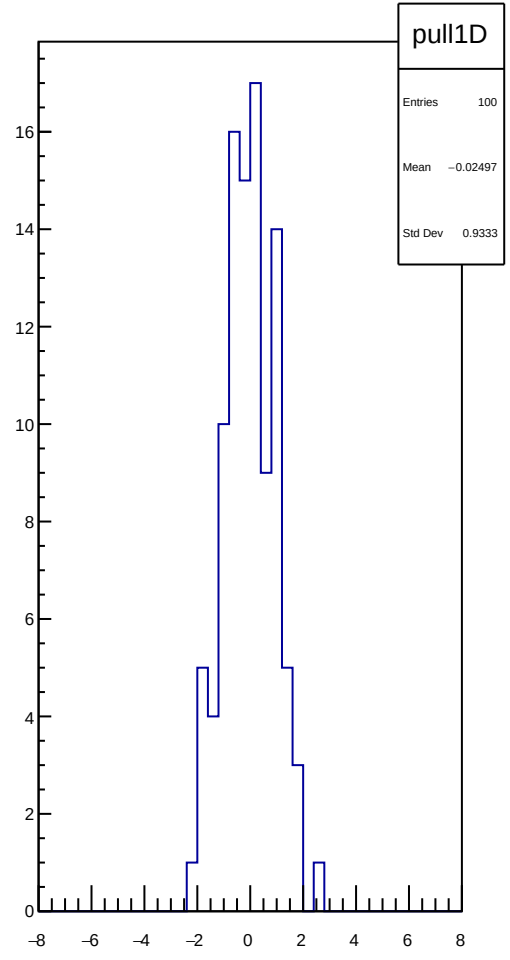

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
χ² / ndf 1.245e+06 / 99
p0 3.34e−11 ± 4.05e−14

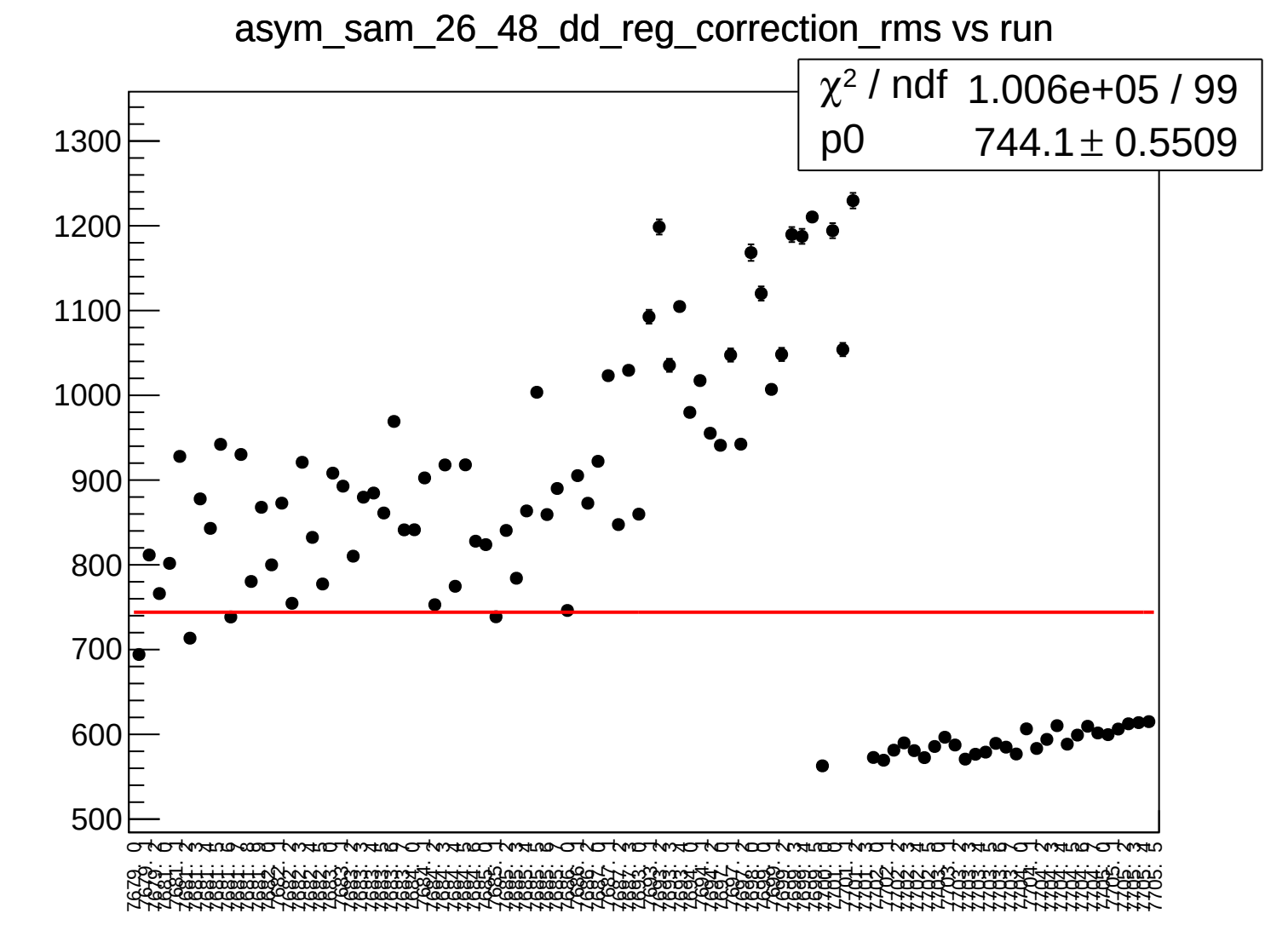

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 83.88 / 99
p0 −42.1 ± 89.46
pull
Entries 100
Mean 404.6
Std Dev 0

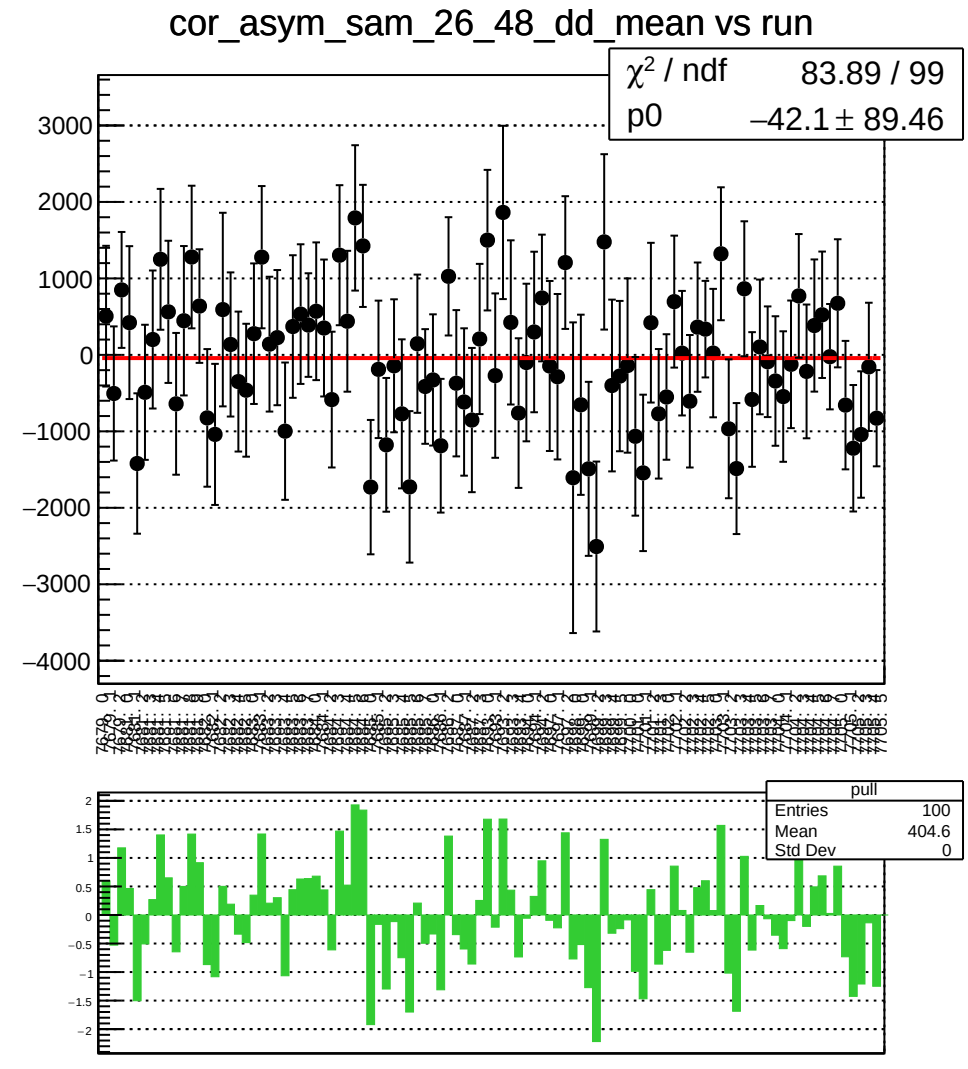

pull1D
Entries 100
Mean −0.0123
Std Dev 0.9158

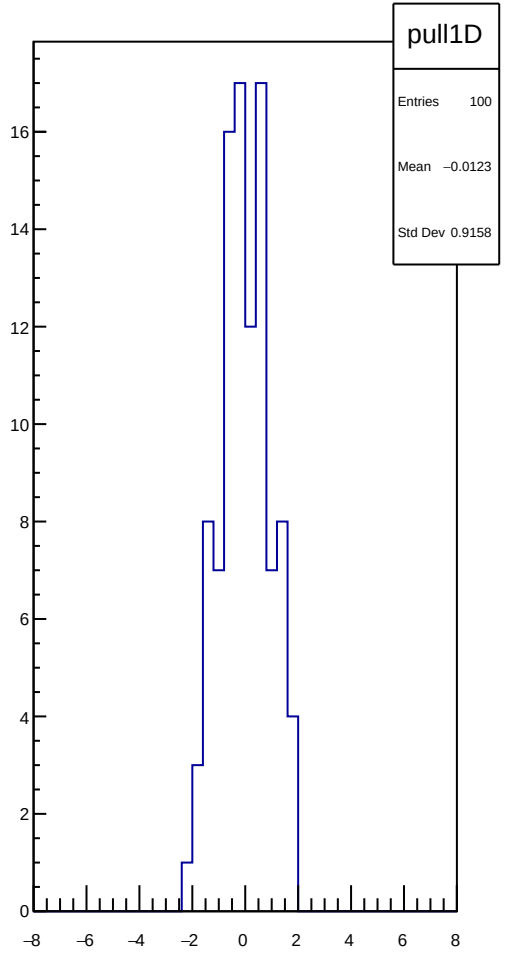

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 2.03e+04 / 99
p0 87.31 ± 0.06326
180
160
140
120
100
80

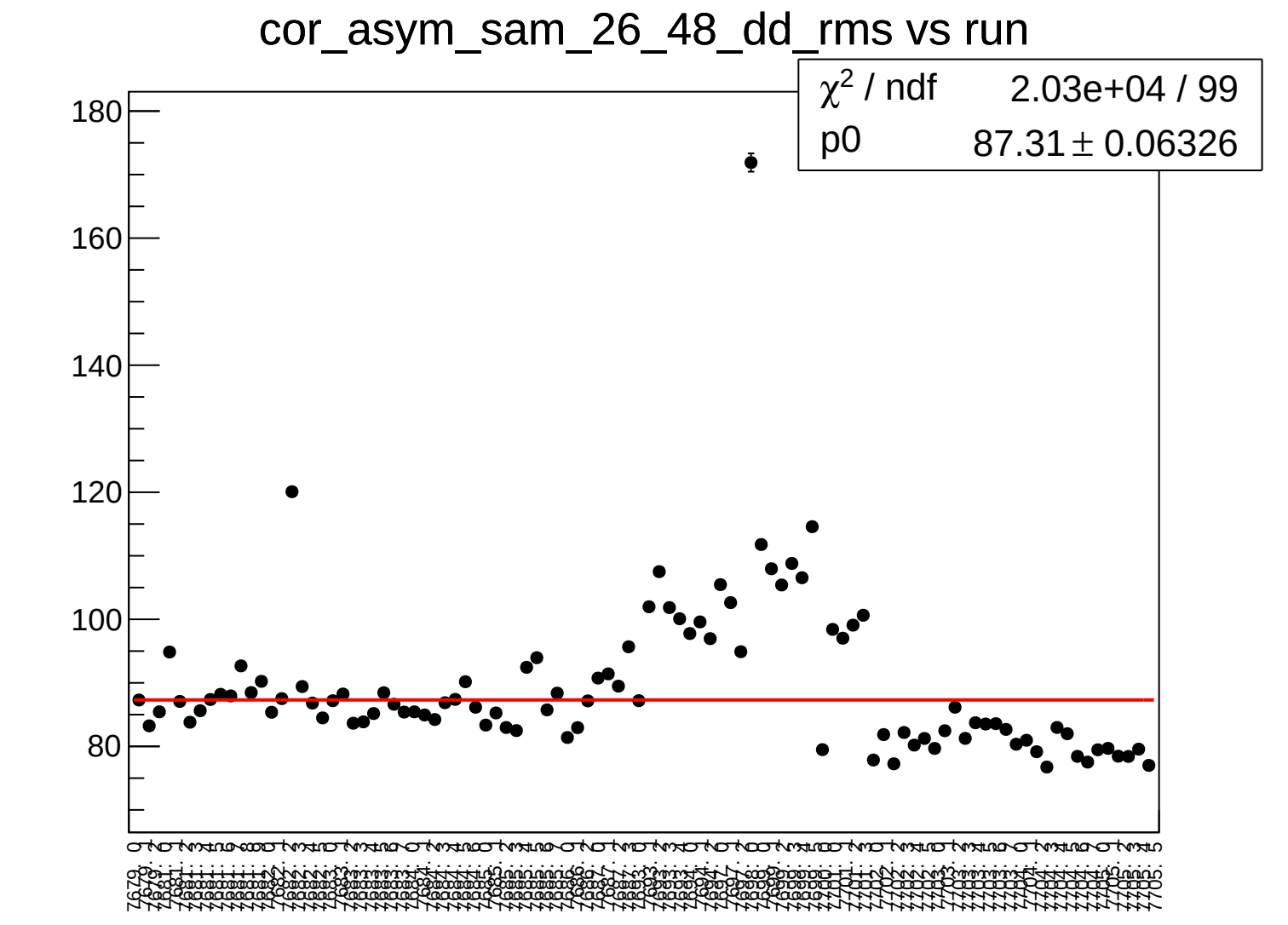

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 87.16 / 99
p0 −125.5 ± 779
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 100
Mean −148.3
Std Dev 0
2
1
0
−1
−2

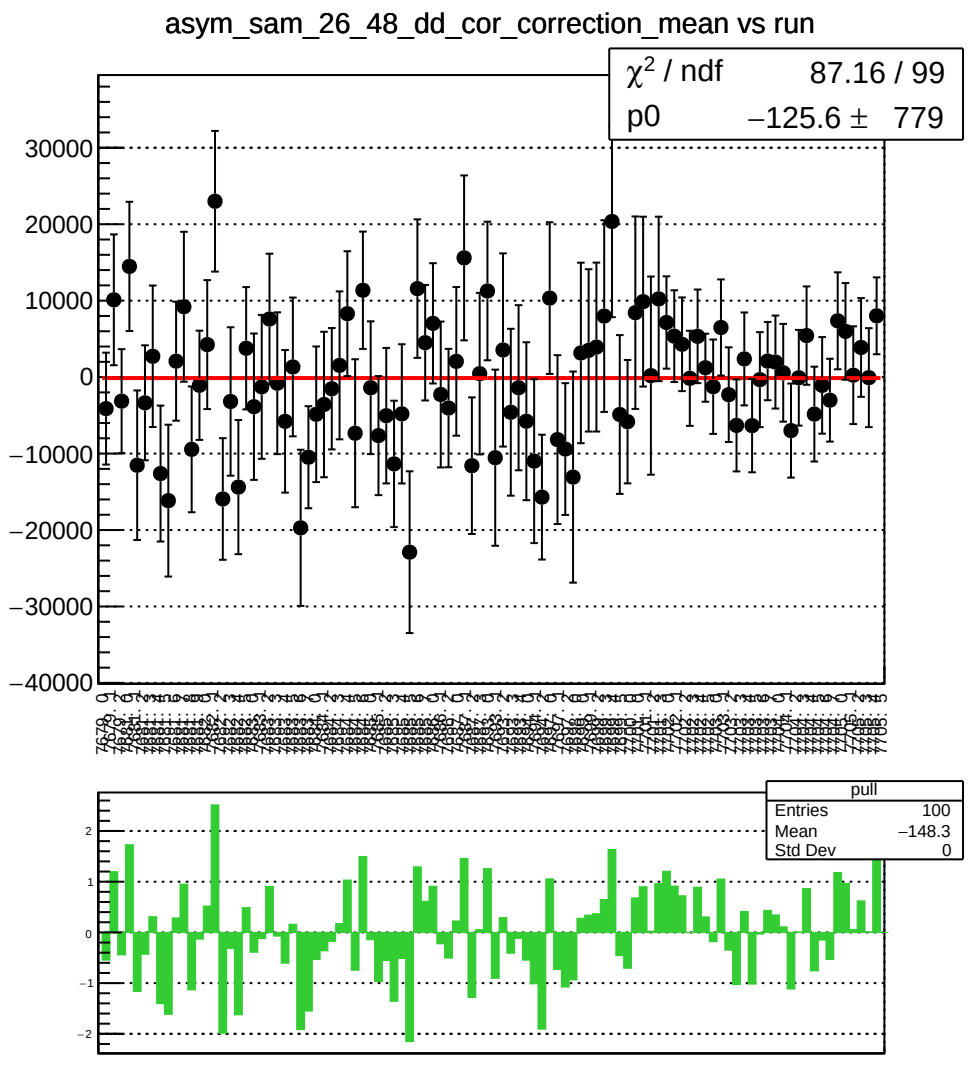

pull1D
Entries 100
Mean −0.02497
Std Dev 0.9333
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

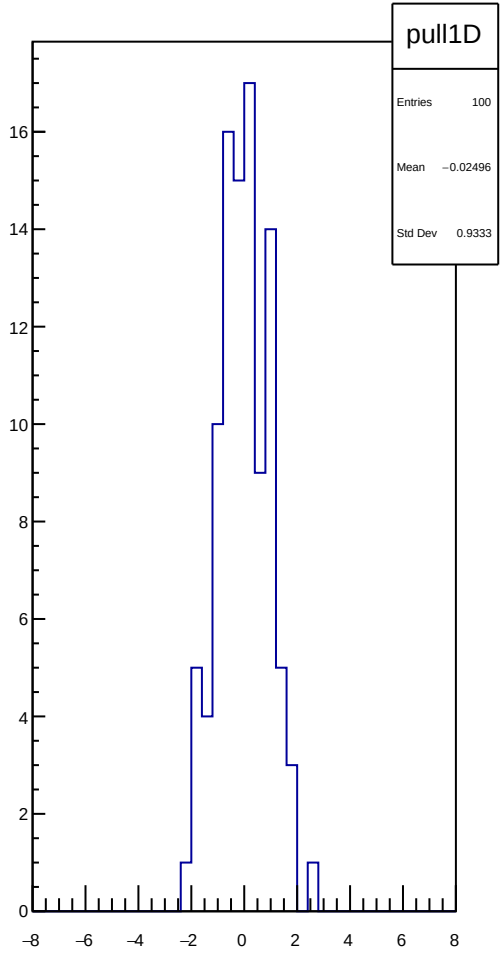

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 1.006e+05 / 99
p0 744.1 ± 0.5509
1300
1200
1100
1000
900
800
700
600
500

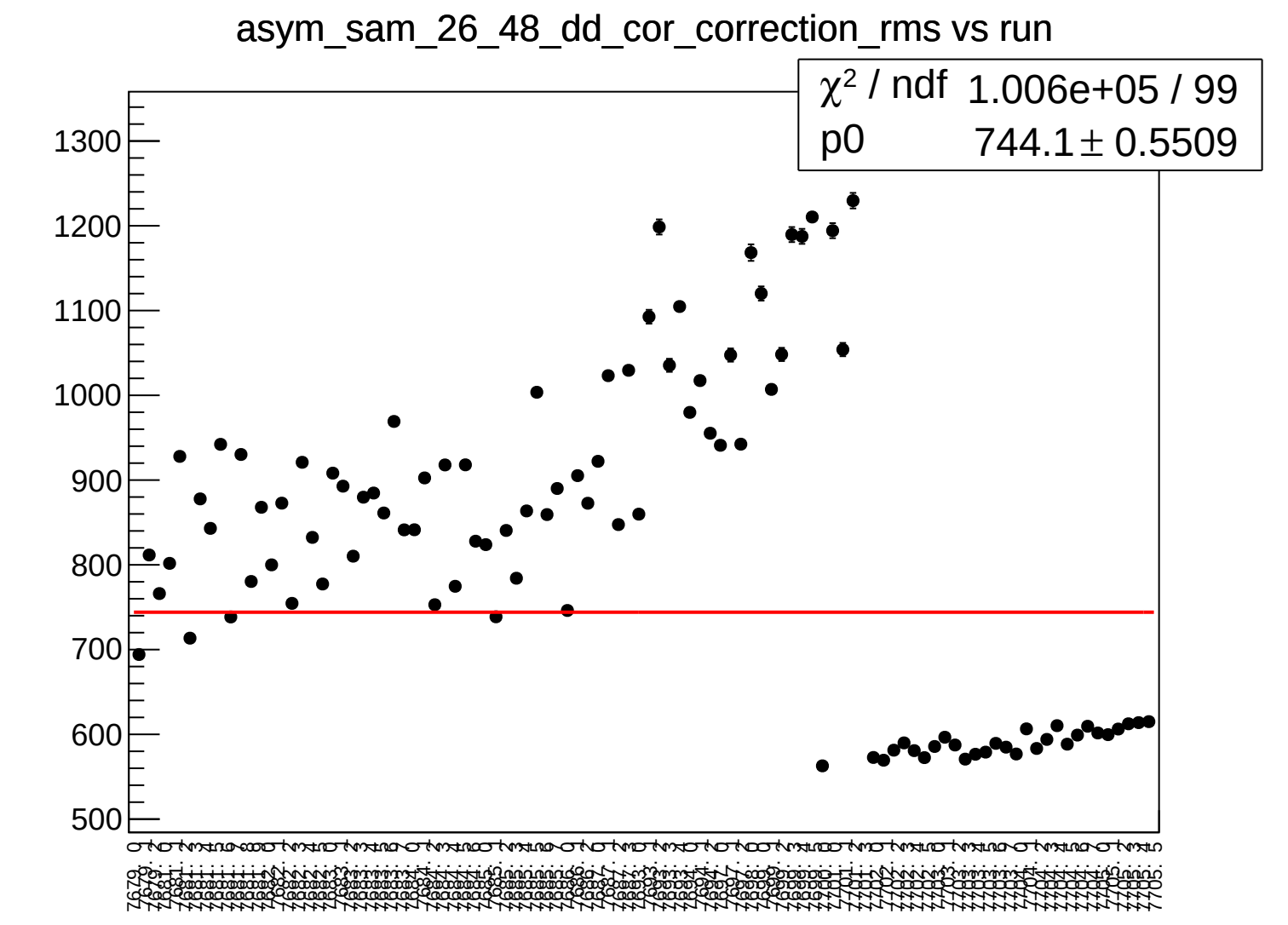

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 83.89 / 99
p0 −42.1 ± 89.46
pull
Entries 100
Mean 404.6
Std Dev 0

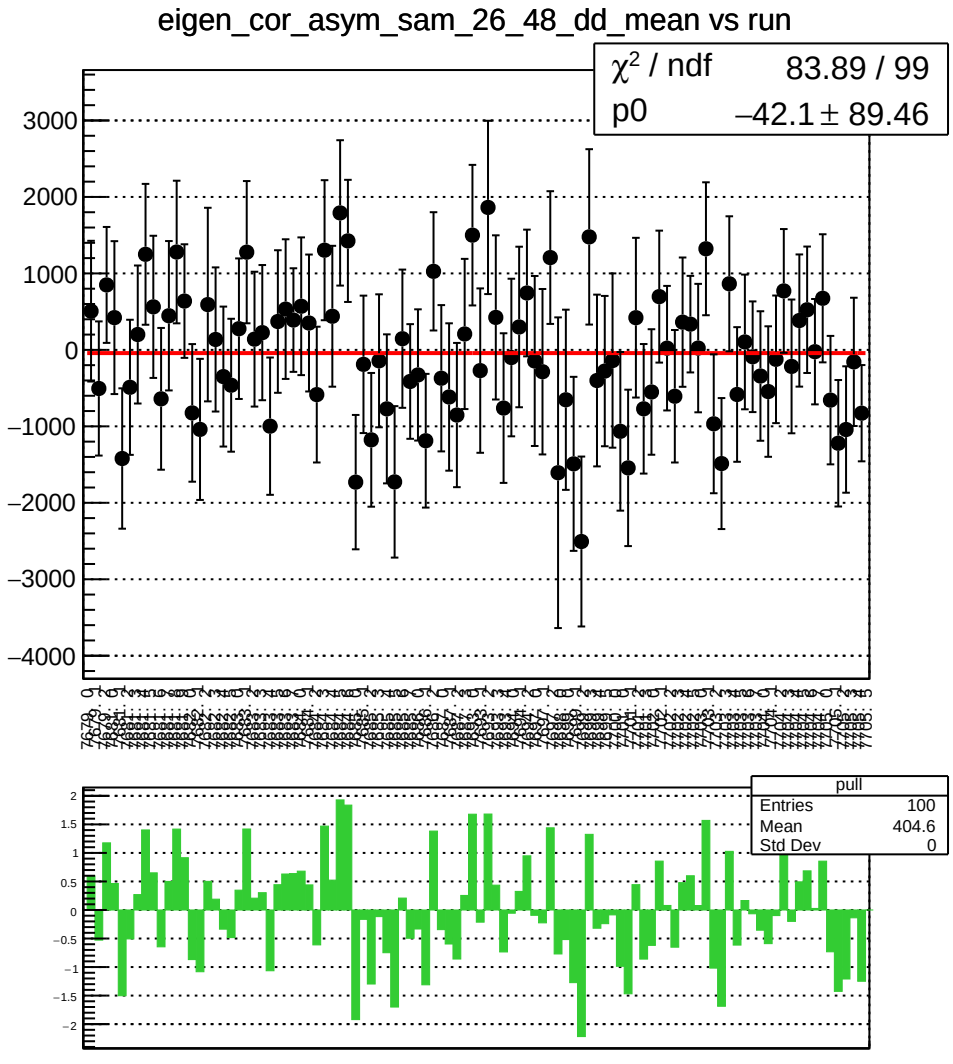

pull1D
Entries 100
Mean −0.0123
Std Dev 0.9158

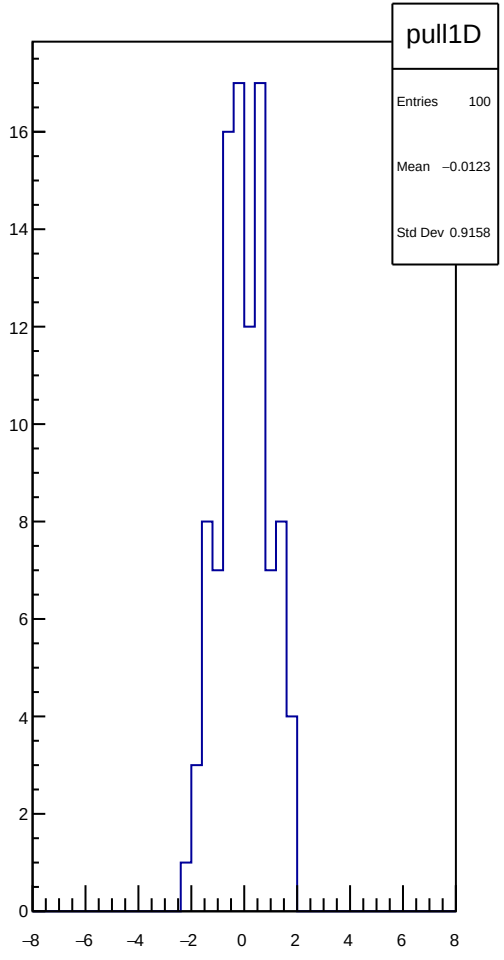

cor_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 2.03e+04 / 99
p0 87.31 ± 0.06326
180
160
140
120
100
80


asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 87.16 / 99
p0 −125.6 ± 779
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 100
Mean −148.3
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 100
Mean −0.02496
Std Dev 0.9333
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 1.006e+05 / 99
p0 744.1 ± 0.5509
1300
1200
1100
1000
900
800
700
600
500


eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 83.89 / 99
p0 −42.1 ± 89.46
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 100
Mean 404.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 100
Mean −0.0123
Std Dev 0.9158
16
14
12
10
8
6
4
2
0
−8
−6
−4
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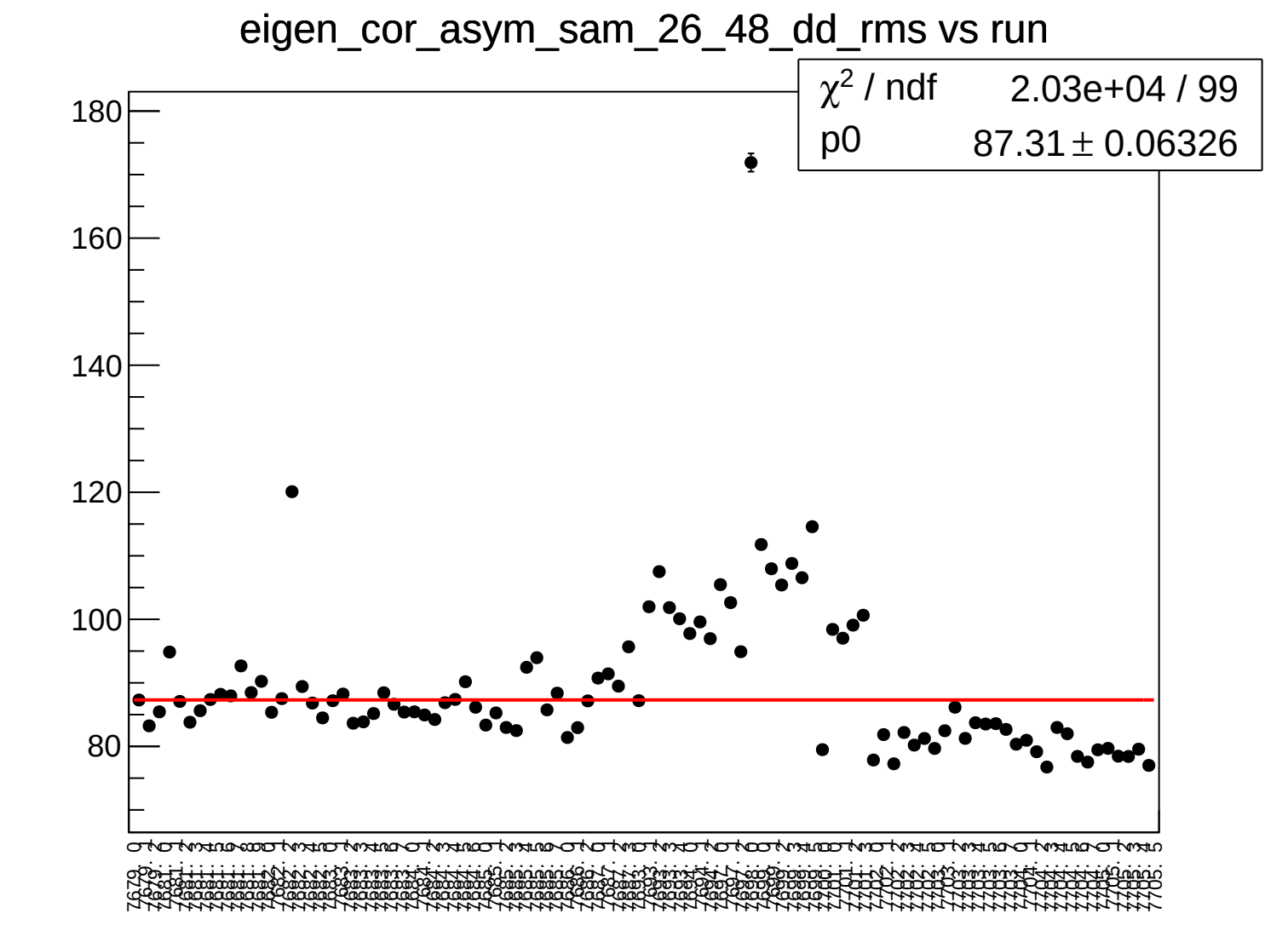
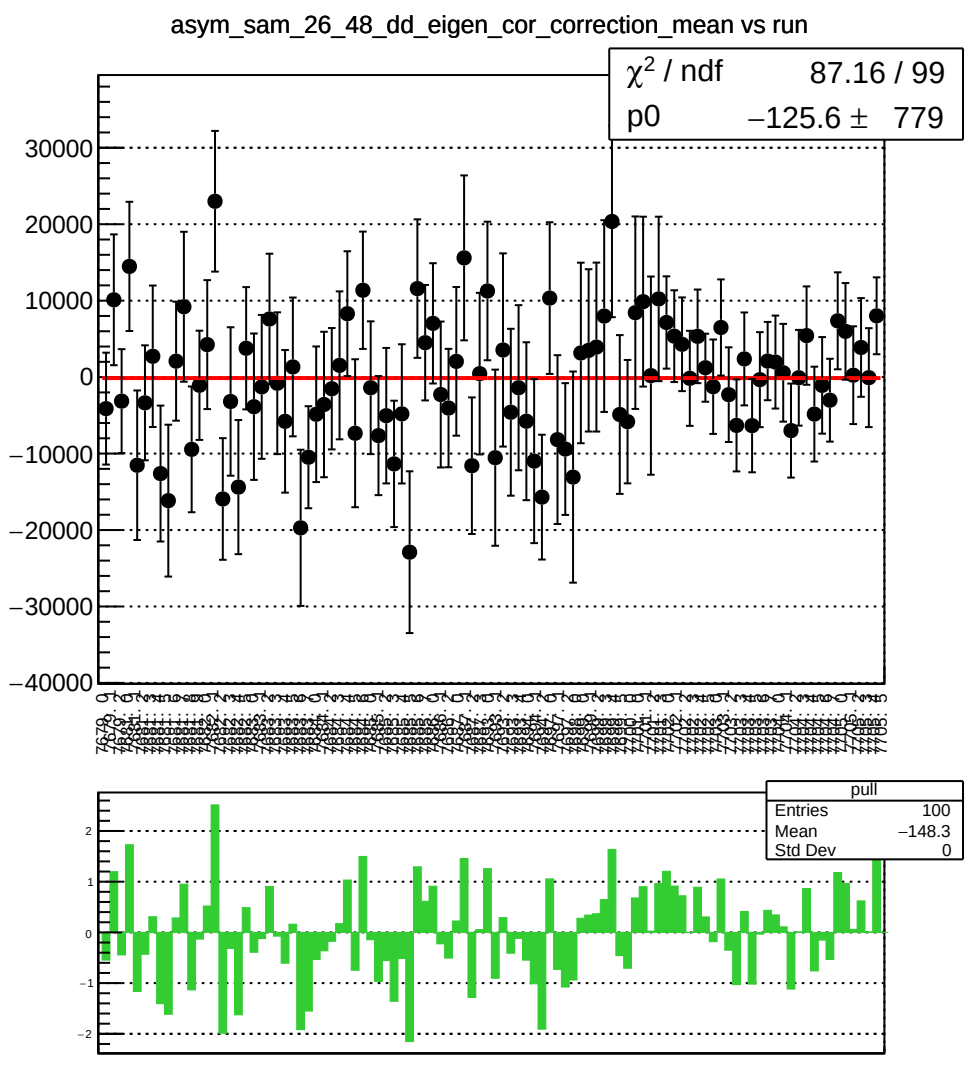
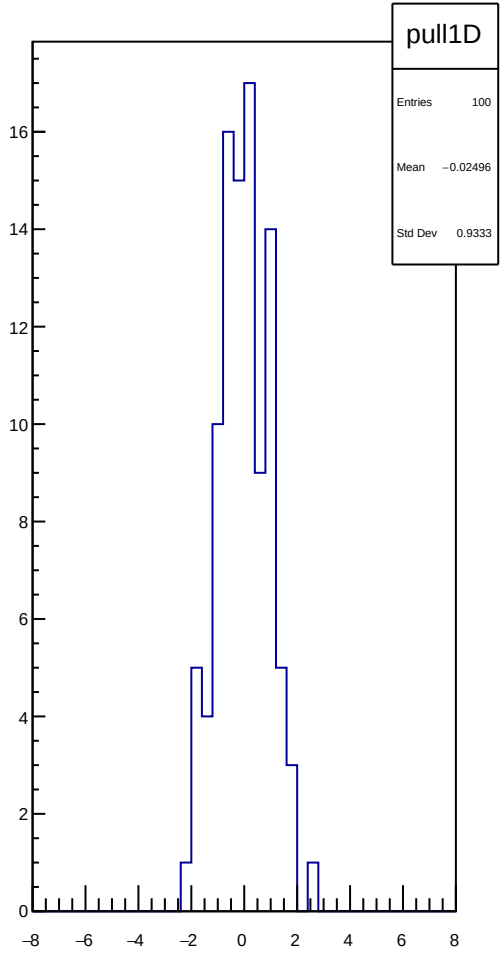
0
2
4
6
8


eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 2.03e+04 / 99
p0 87.31 ± 0.06326
180
160
140
120
100
80


asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 87.16 / 99
p0 −125.6 ± 779
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 100
Mean −148.3
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 100
Mean −0.02496
Std Dev 0.9333
16
14
12
10
8
6
4
2
0
−8
−6
−4
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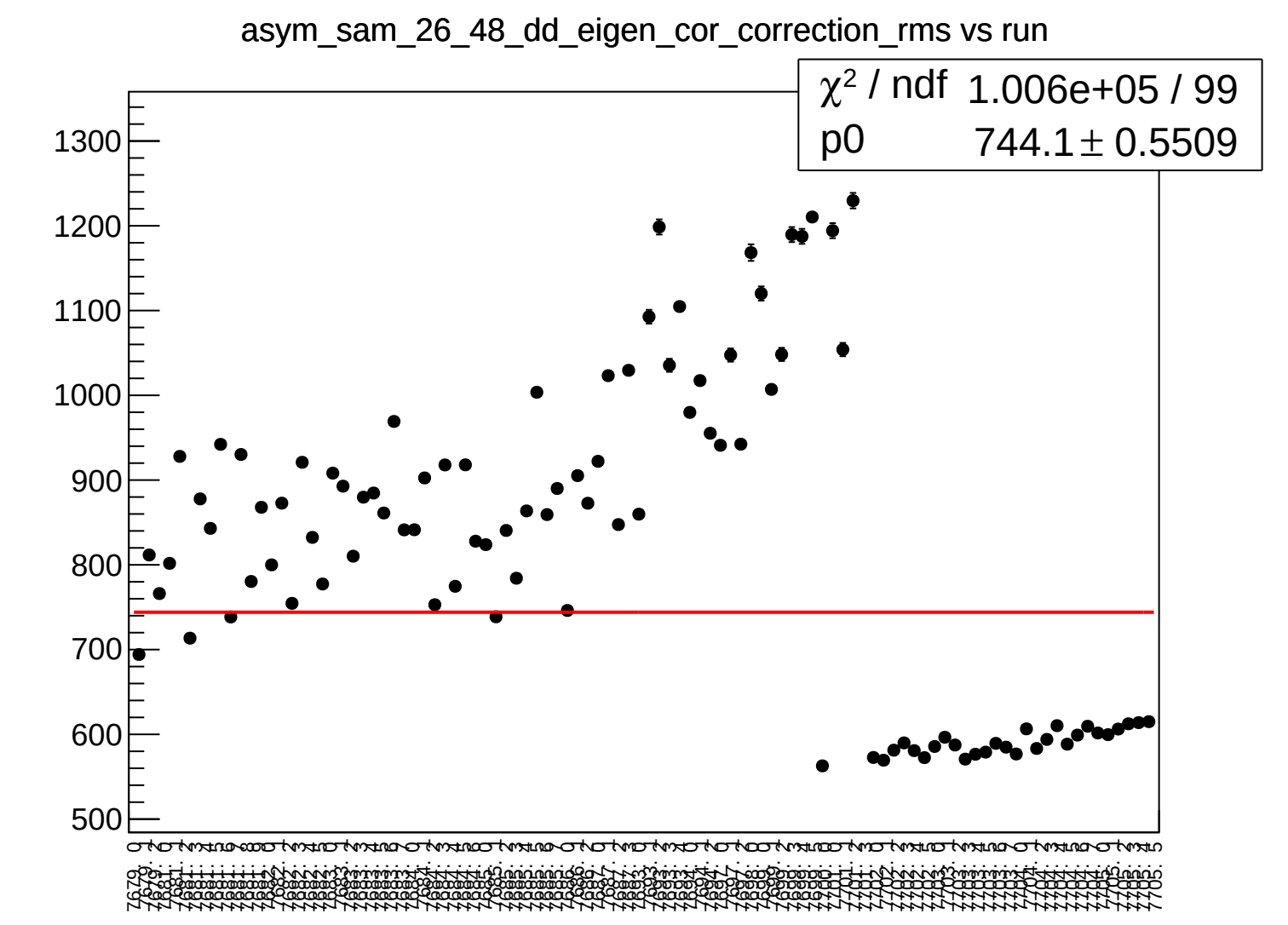
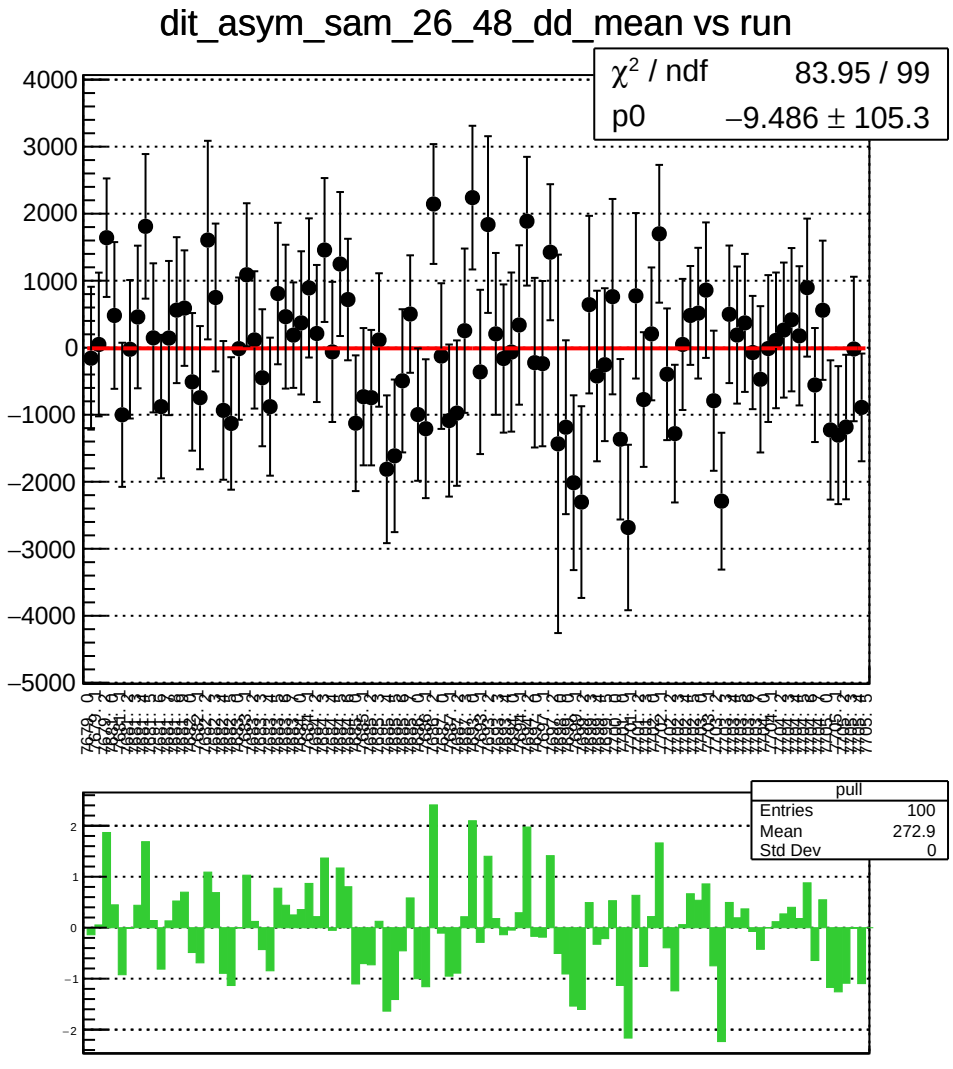
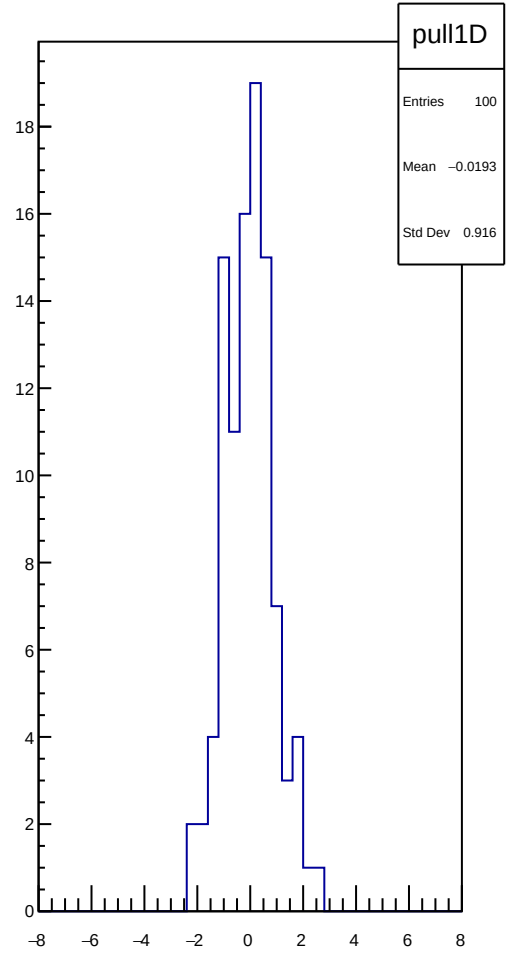
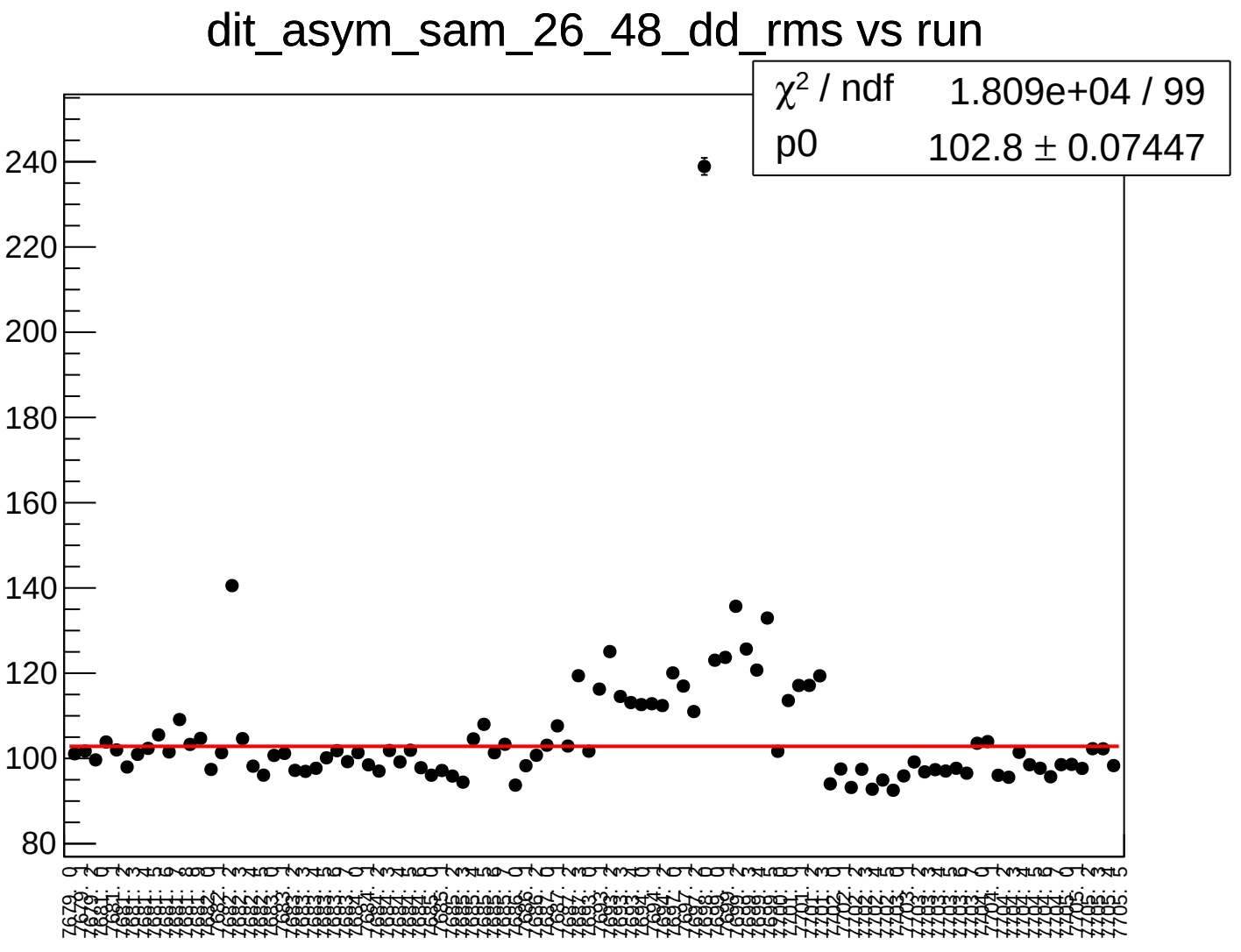
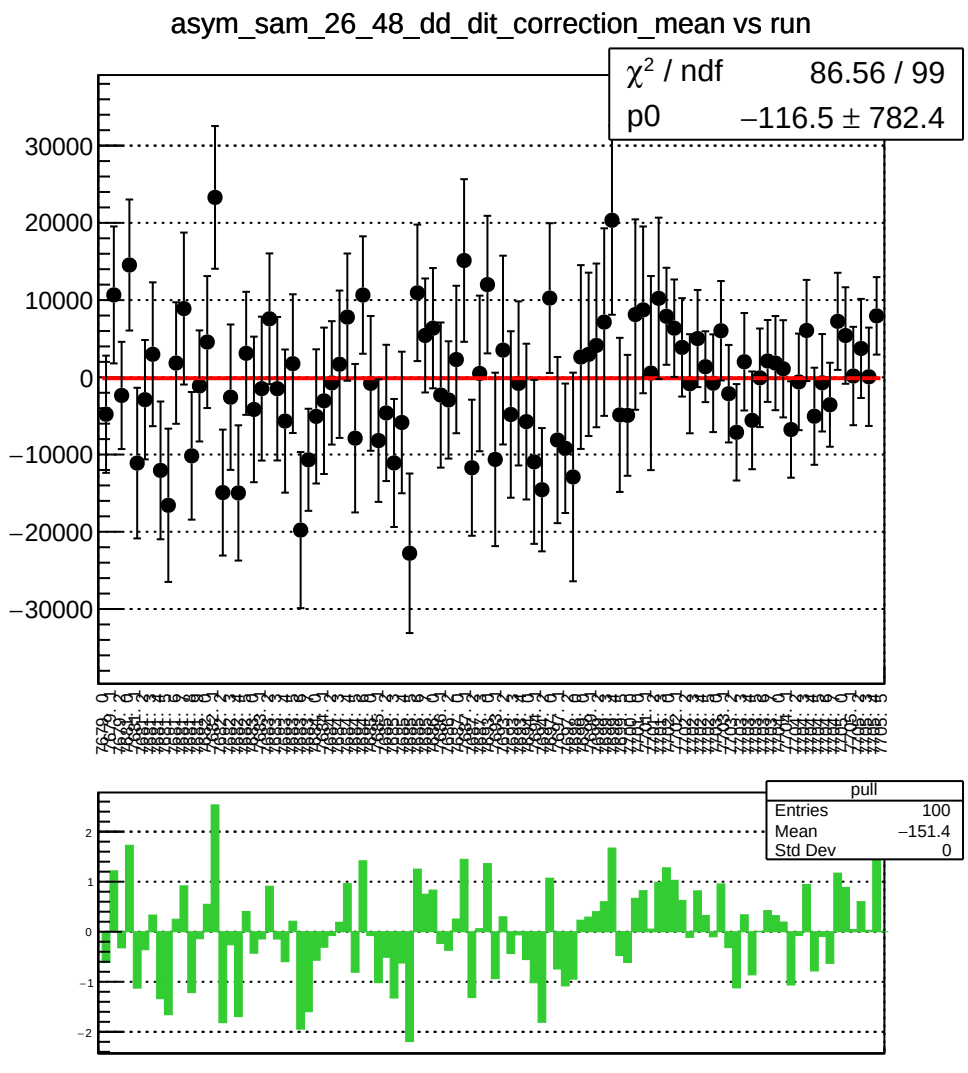
0
2
4
6
8

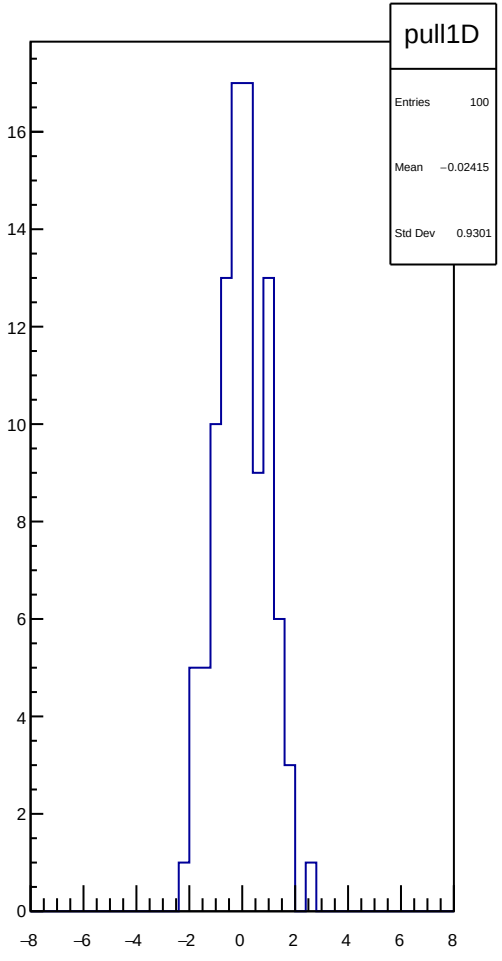

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.006e+05 / 99
p0 744.1 ± 0.5509
1300
1200
1100
1000
900
800
700
600
500

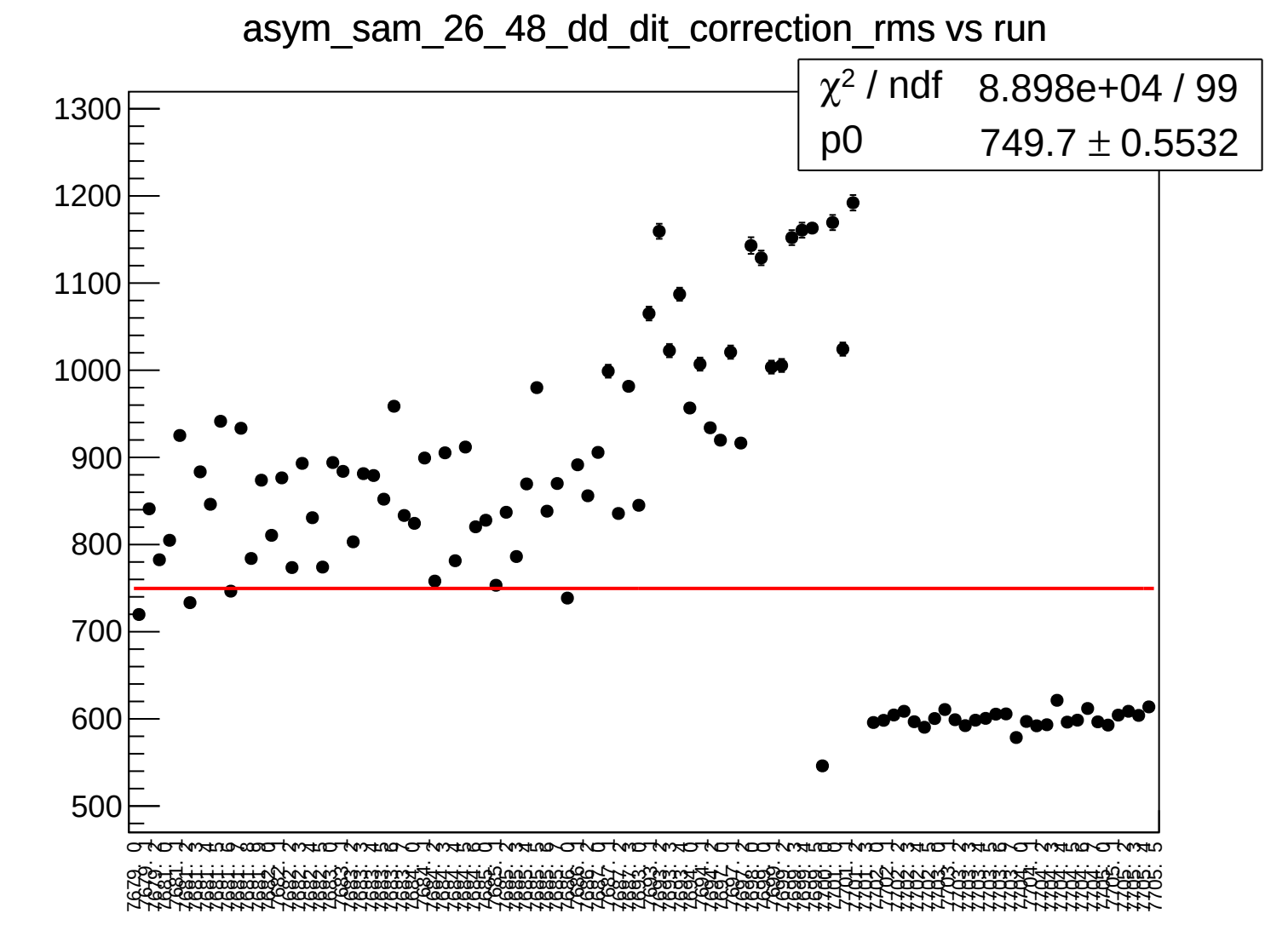

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 83.95 / 99
p0 −9.486 ± 105.3
pull
Entries 100
Mean 272.9
Std Dev 0

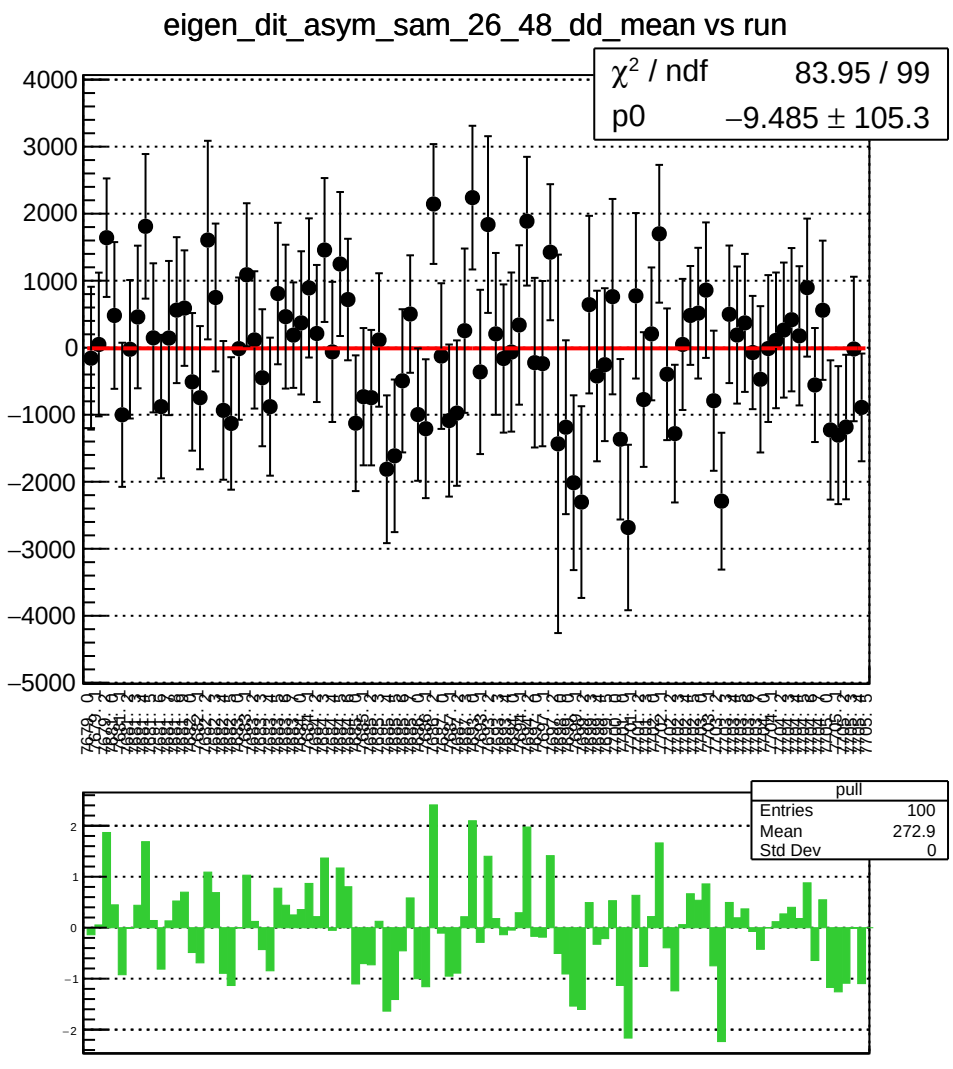

pull1D
Entries 100
Mean −0.0193
Std Dev 0.916

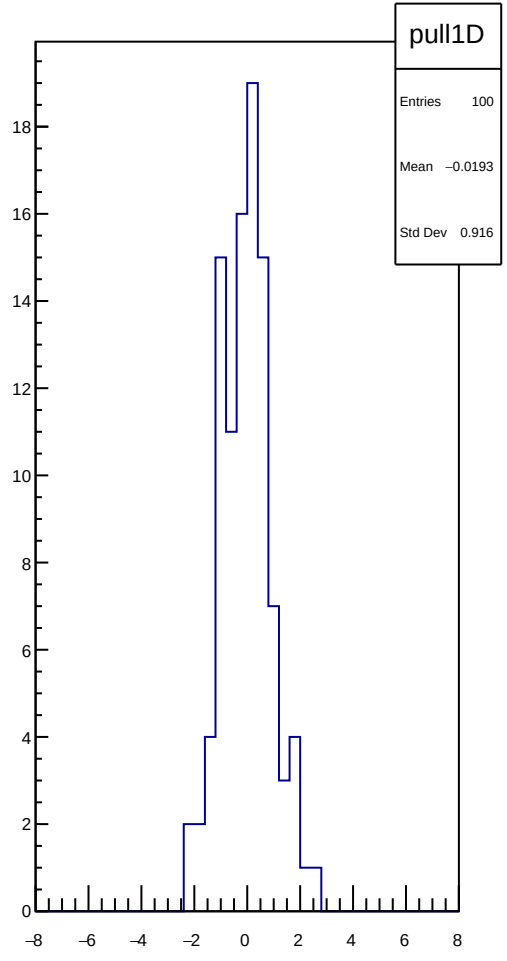

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 1.809e+04 / 99
p0 102.8 ± 0.07447
240
220
200
180
160
140
120
100
80

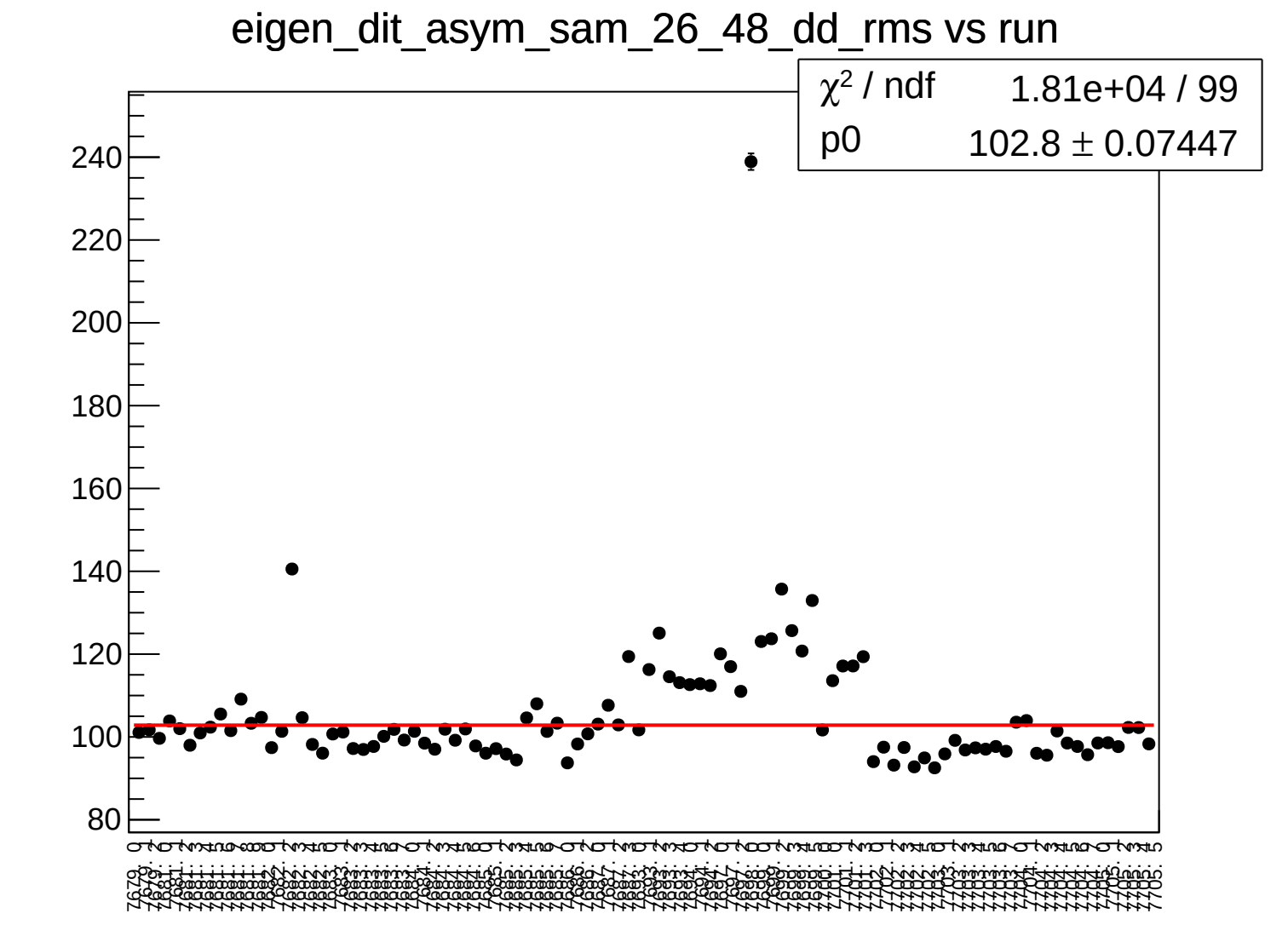

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 86.56 / 99
p0 −116.5 ± 782.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 100
Mean −151.4
Std Dev 0
2
1
0
−1
−2

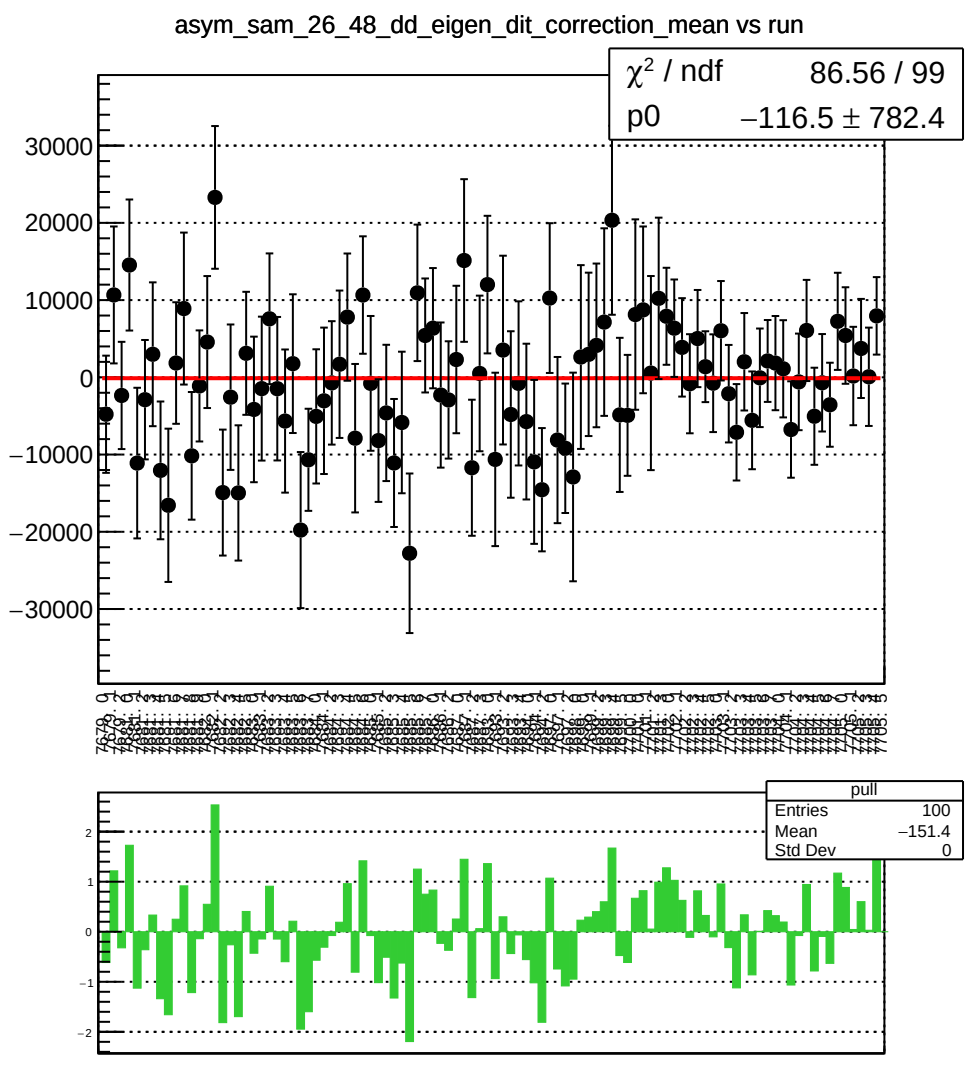

pull1D
Entries 100
Mean −0.02415
Std Dev 0.9301
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

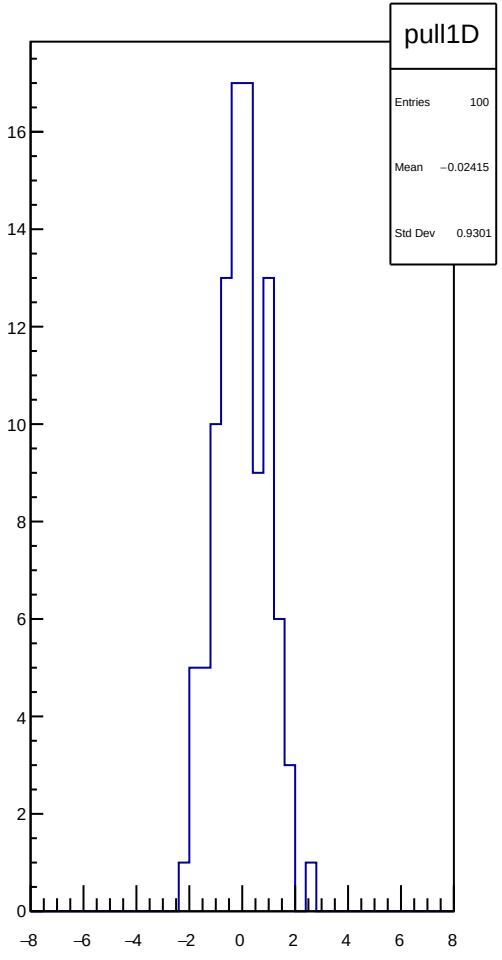

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 8.898e+04 / 99
p0 749.7 ± 0.5532
1300
1200
1100
1000
900
800
700
600
500

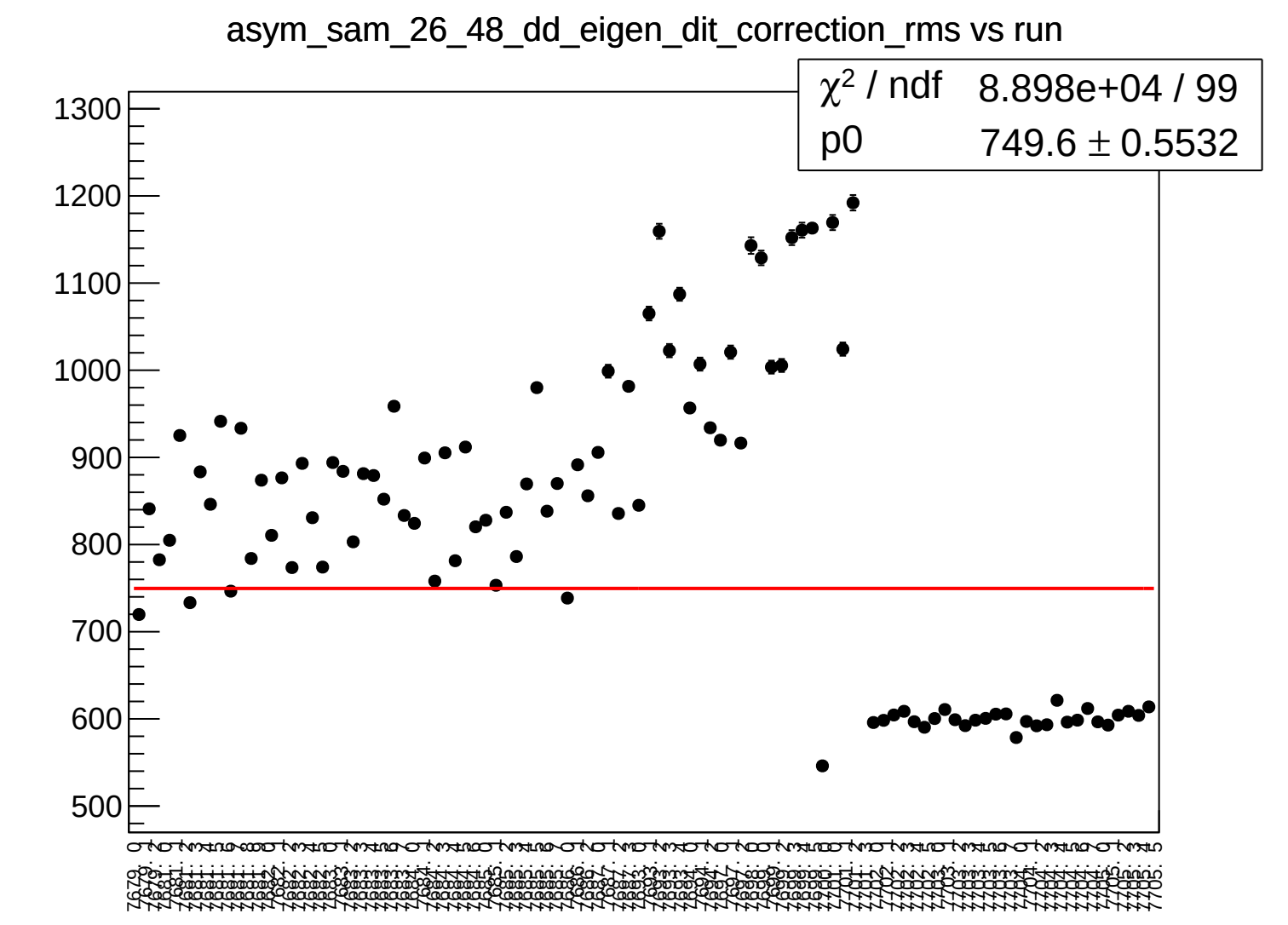

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 83.95 / 99
p0 −9.485 ± 105.3
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
pull
Entries 100
Mean 272.9
Std Dev 0
2
1
0
−1
−2

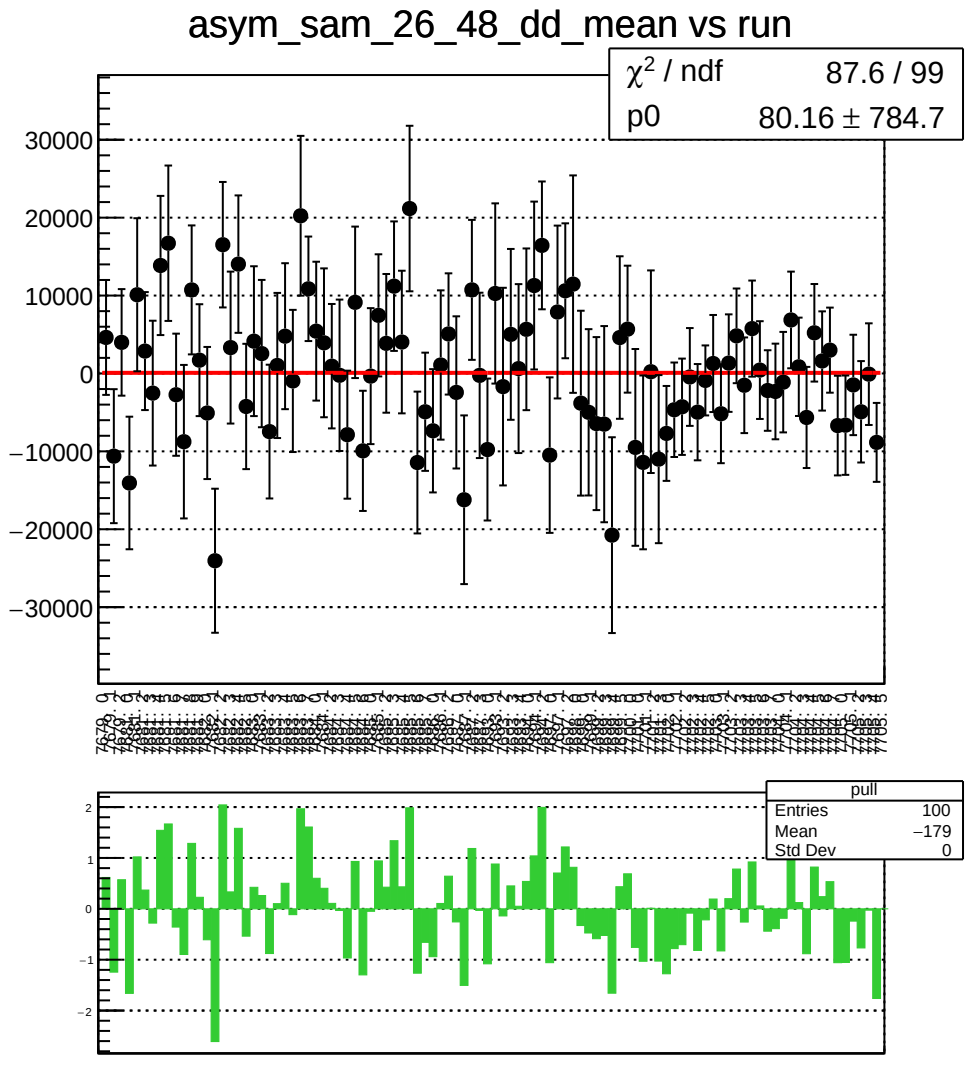

pull1D
Entries 100
Mean −0.0193
Std Dev 0.916
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

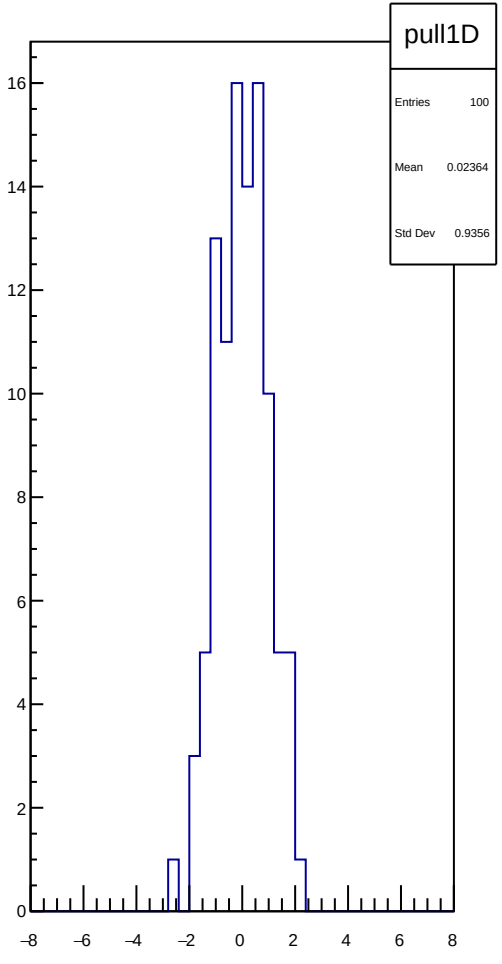

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 1.81e+04 / 99
p0 102.8 ± 0.07447
240
220
200
180
160
140
120
100
80

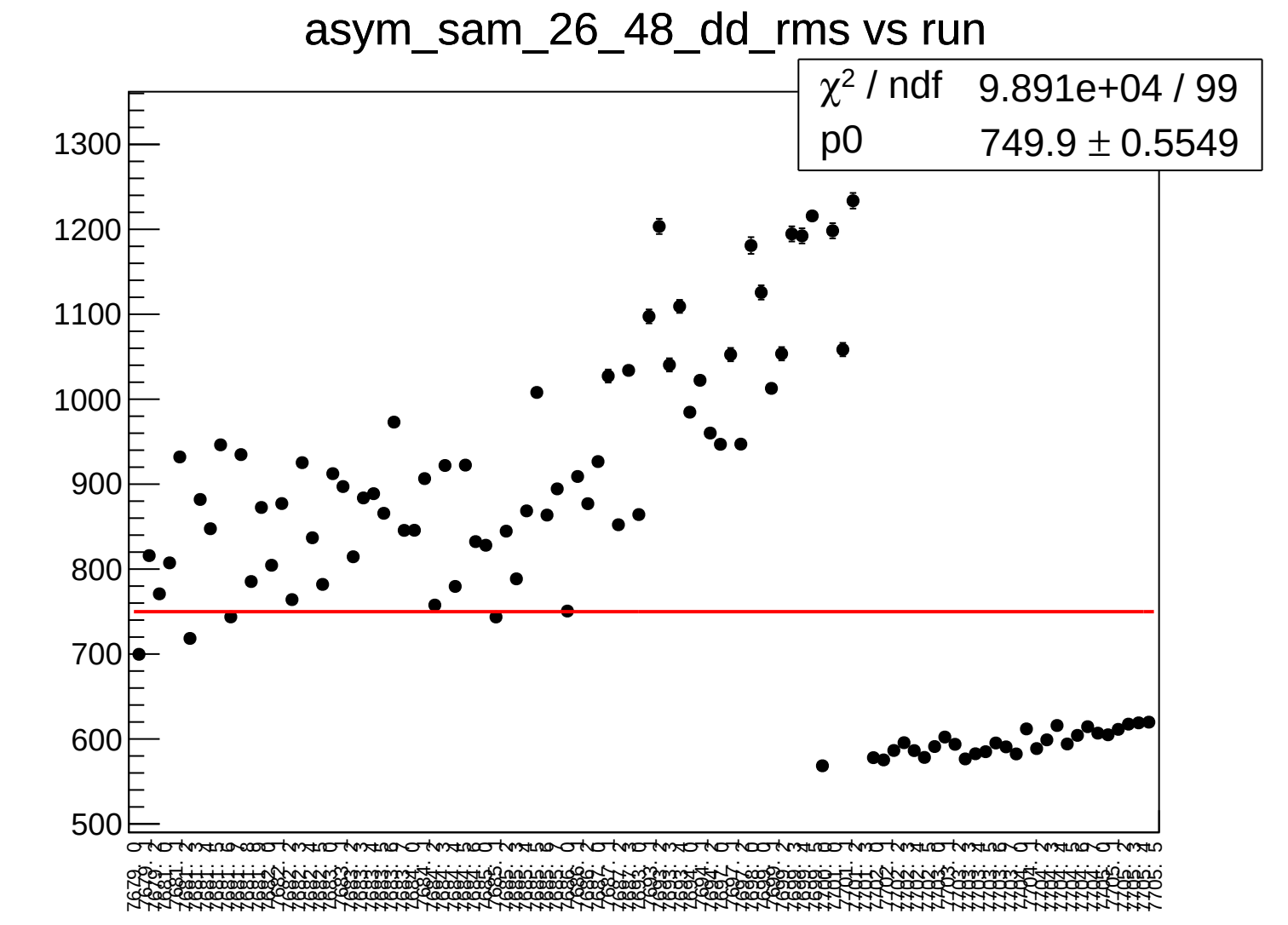

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 86.56 / 99
p0 −116.5 ± 782.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 100
Mean −151.4
Std Dev 0
2
1
0
−1
−2

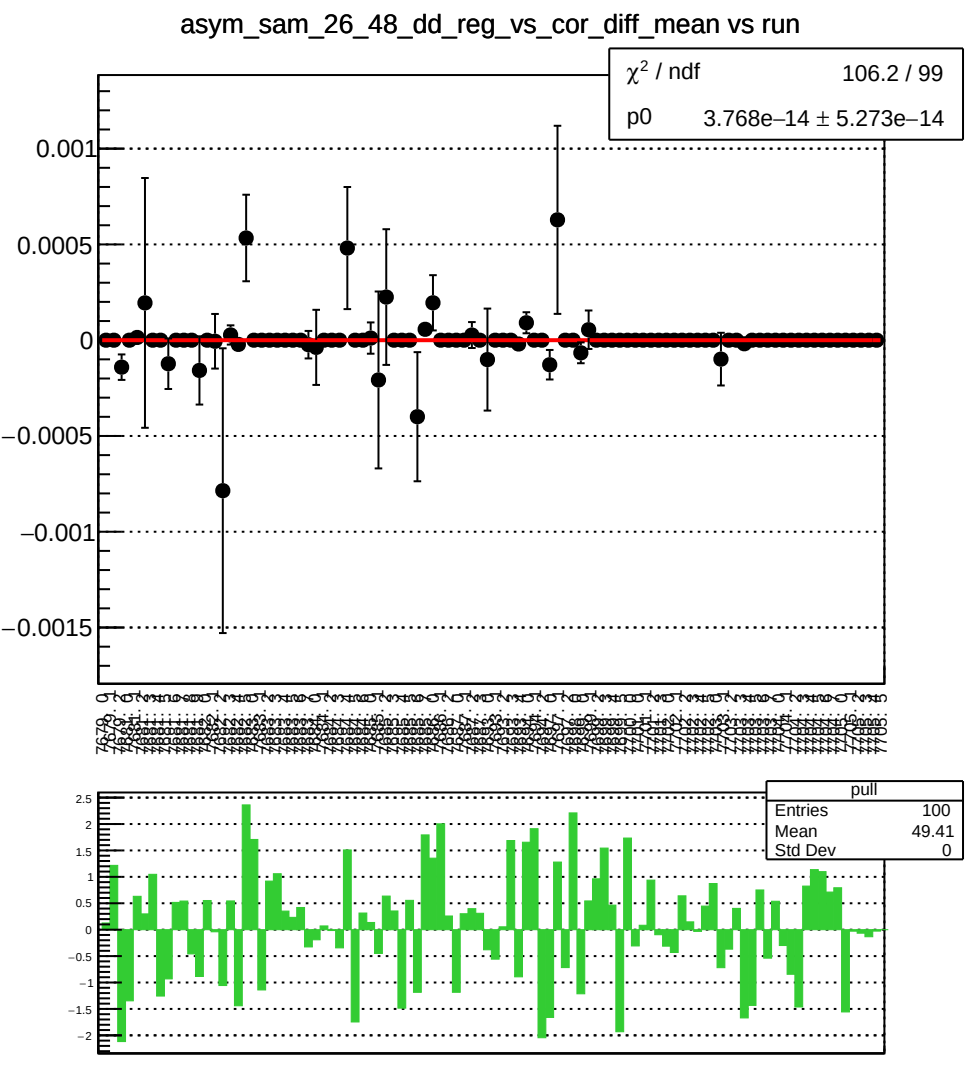

pull1D
Entries 100
Mean −0.02415
Std Dev 0.9301
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

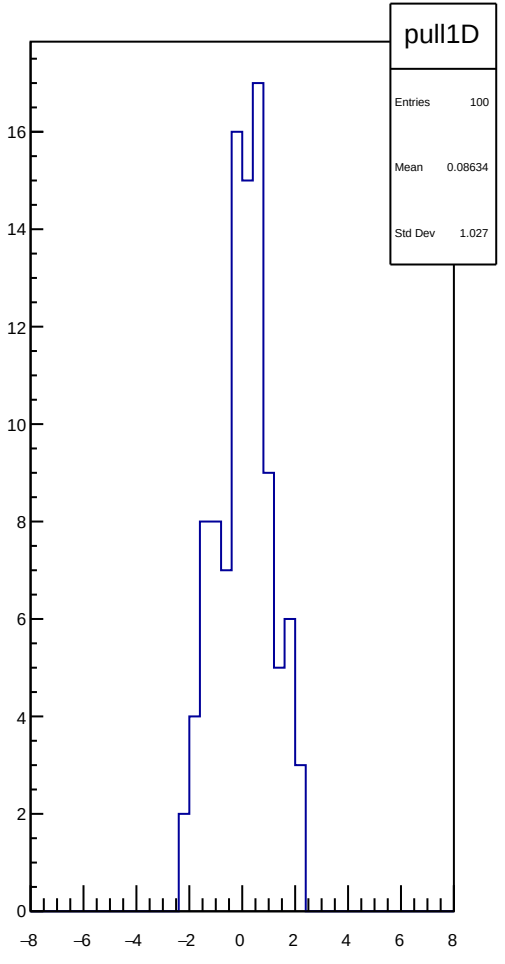

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 8.898e+04 / 99
p0 749.6 ± 0.5532
1300
1200
1100
1000
900
800
700
600
500

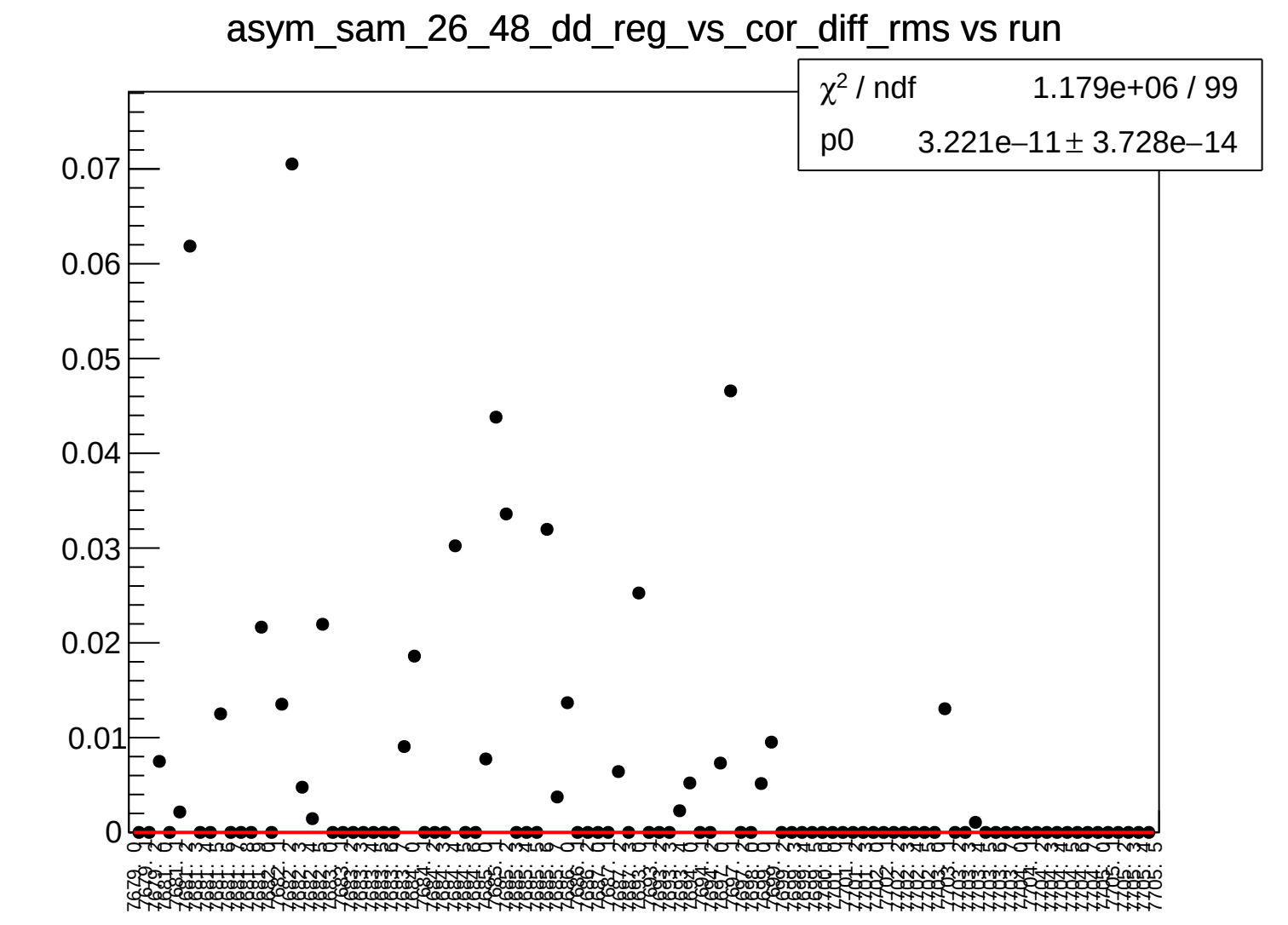

asym_sam_26_48_dd_mean vs run
χ² / ndf 87.6 / 99
p0 80.16 ± 784.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 100
Mean −179
Std Dev 0
2
1
0
−1
−2

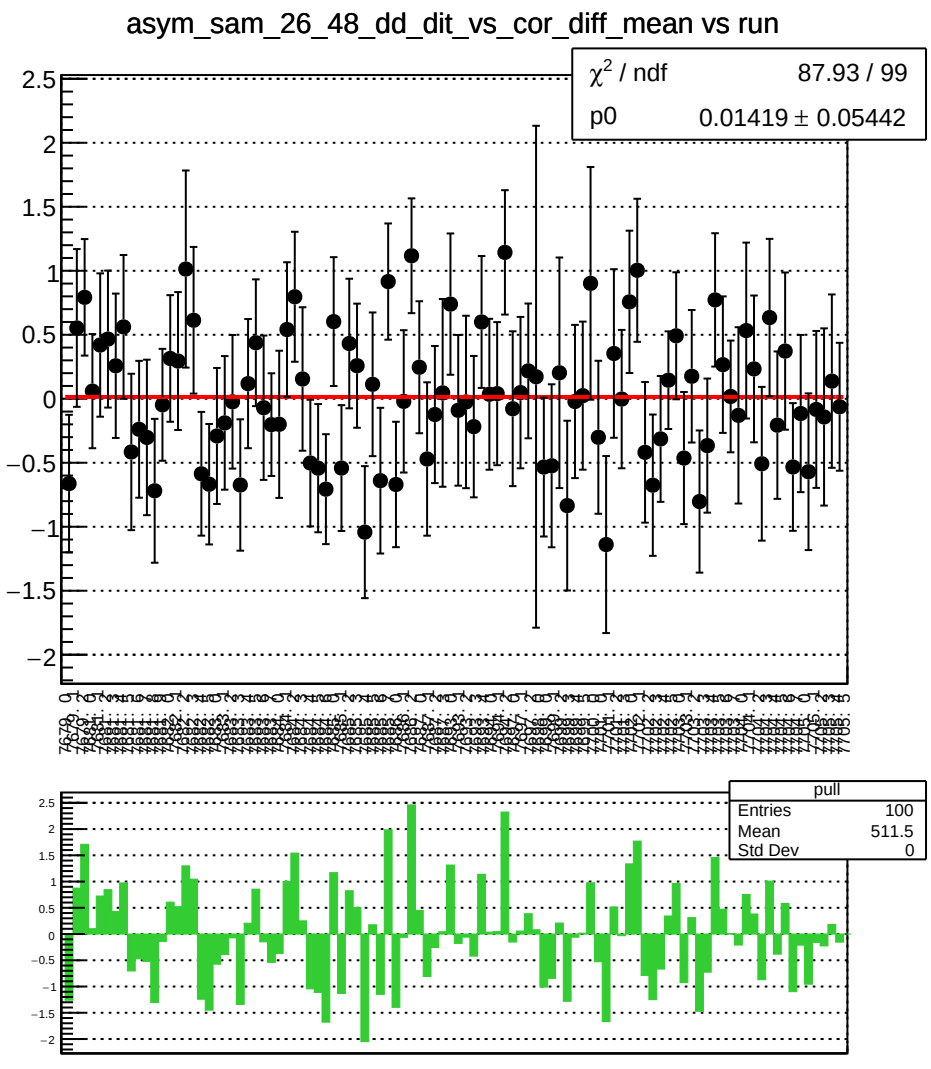

pull1D
Entries 100
Mean 0.02364
Std Dev 0.9356
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

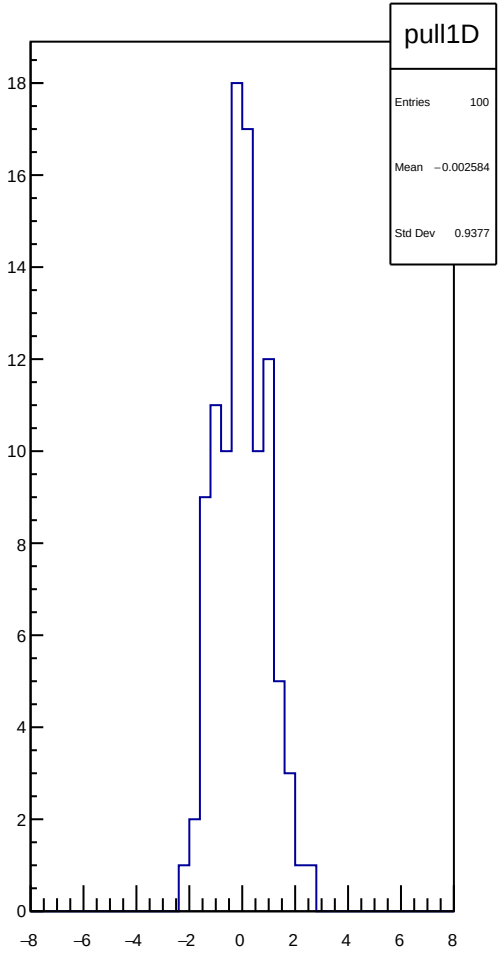

asym_sam_26_48_dd_rms vs run
χ^2 / ndf 9.891e+04 / 99
p0 749.9 ± 0.5549
1300
1200
1100
1000
900
800
700
600
500

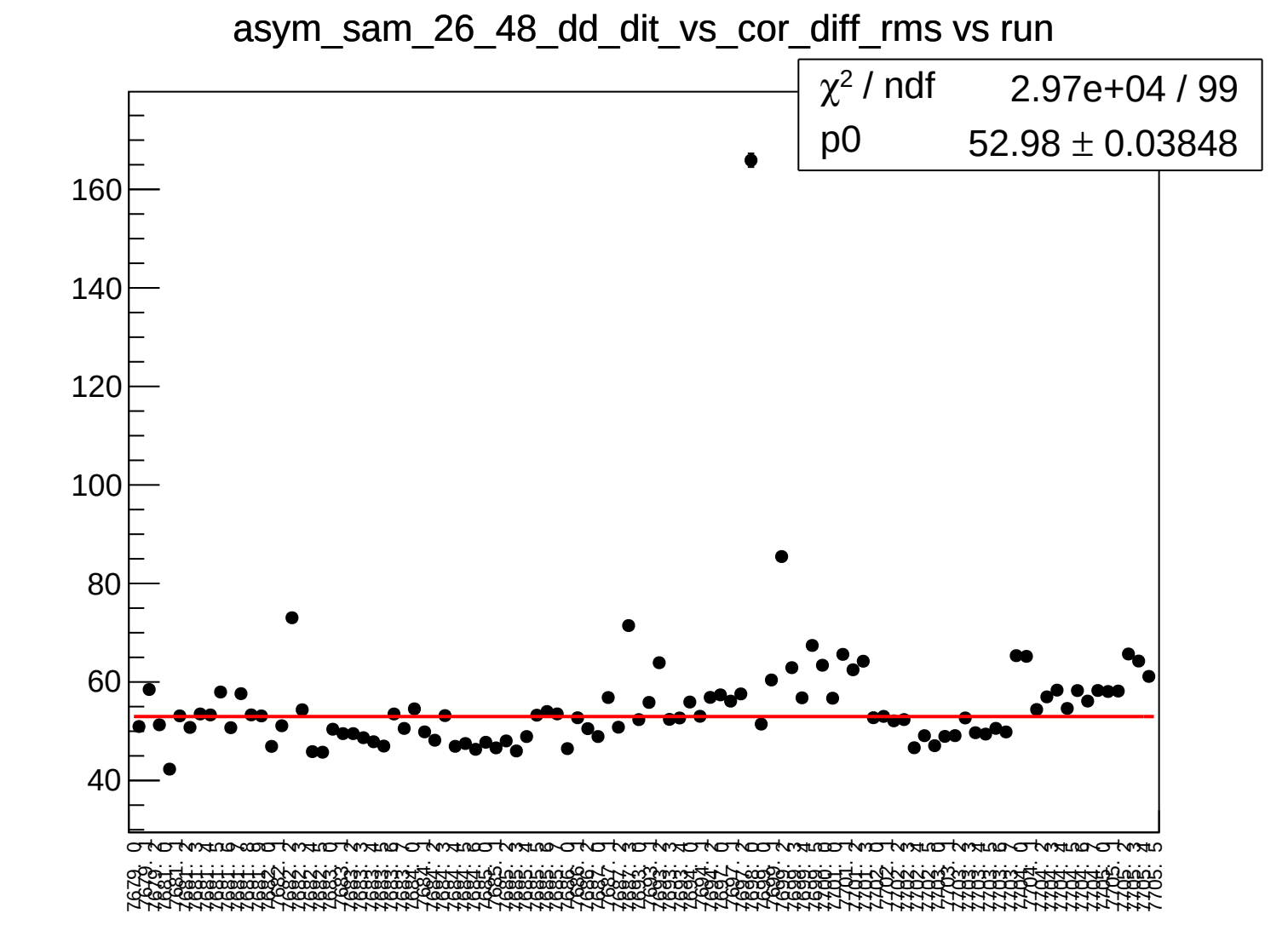

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 106.2 / 99
p0 3.768e−14 ± 5.273e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 100
Mean 49.41
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

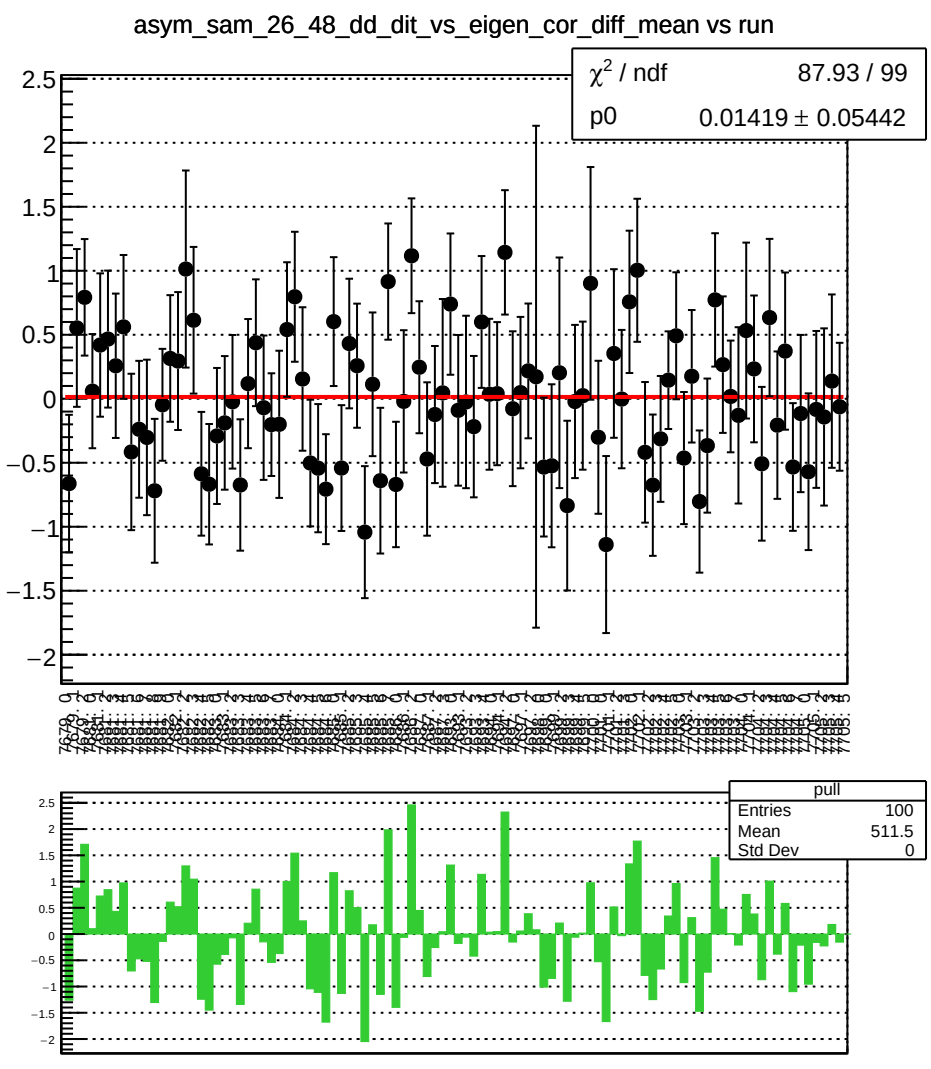

pull1D
Entries 100
Mean 0.08634
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

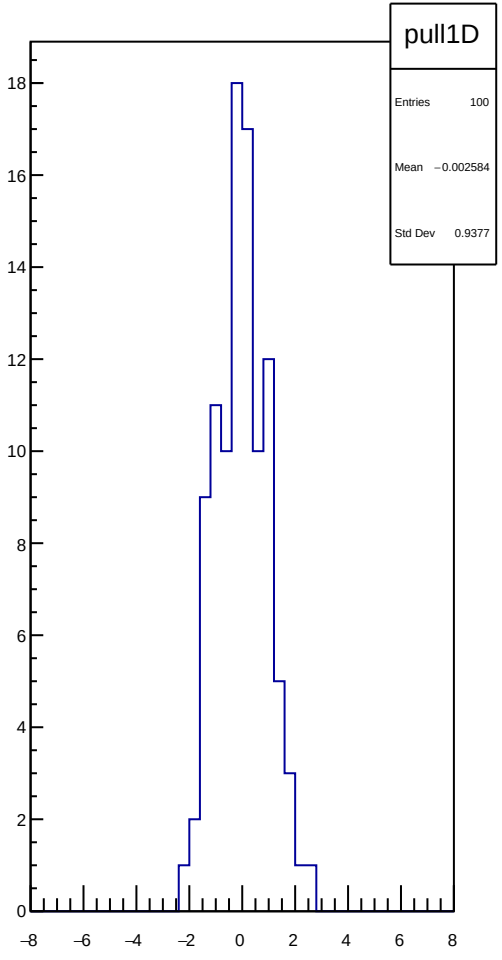

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.179e+06 / 99
p0 3.221e−11 ± 3.728e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

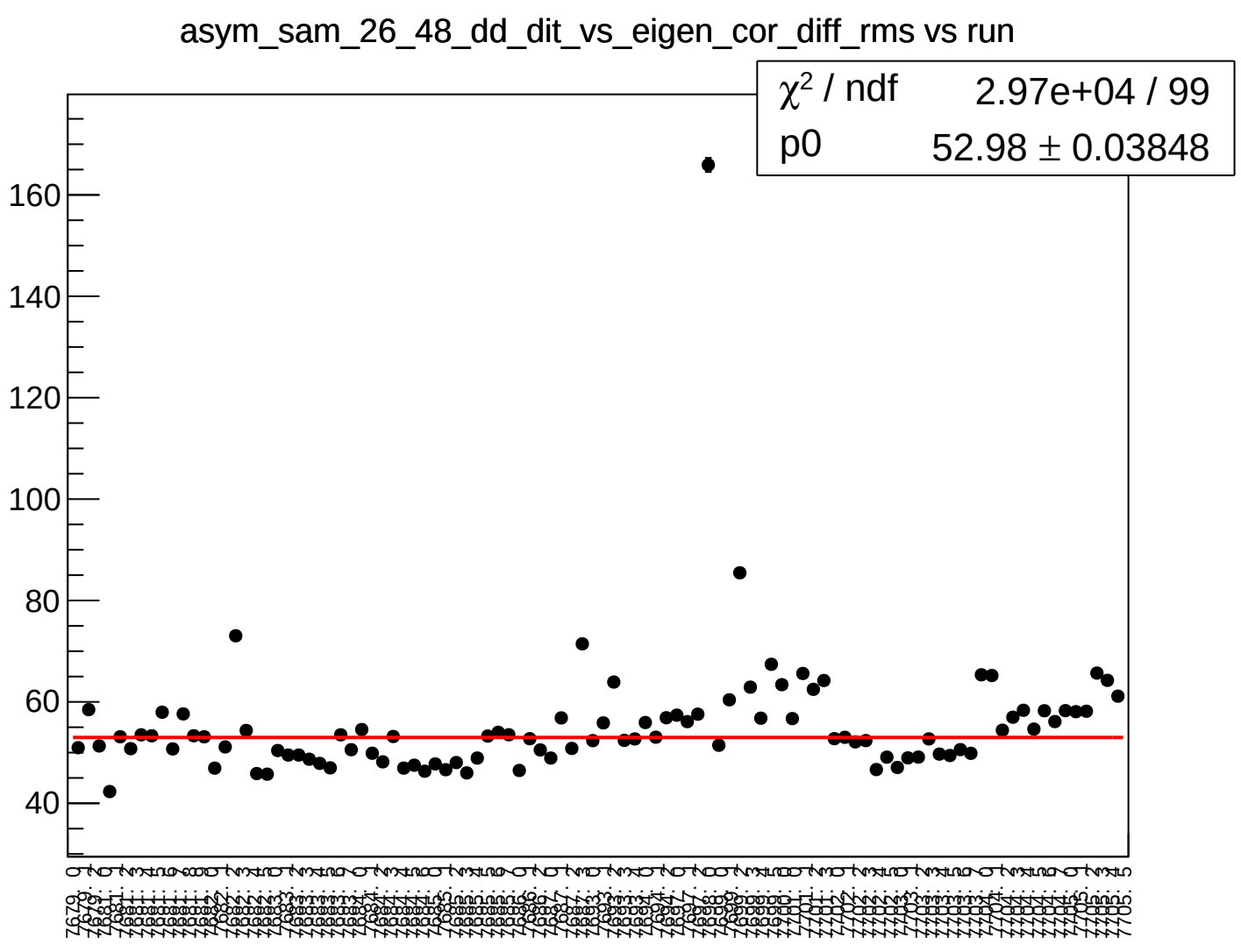

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.93 / 99
p0 0.01419 ± 0.05442
pull
Entries 100
Mean 511.5
Std Dev 0

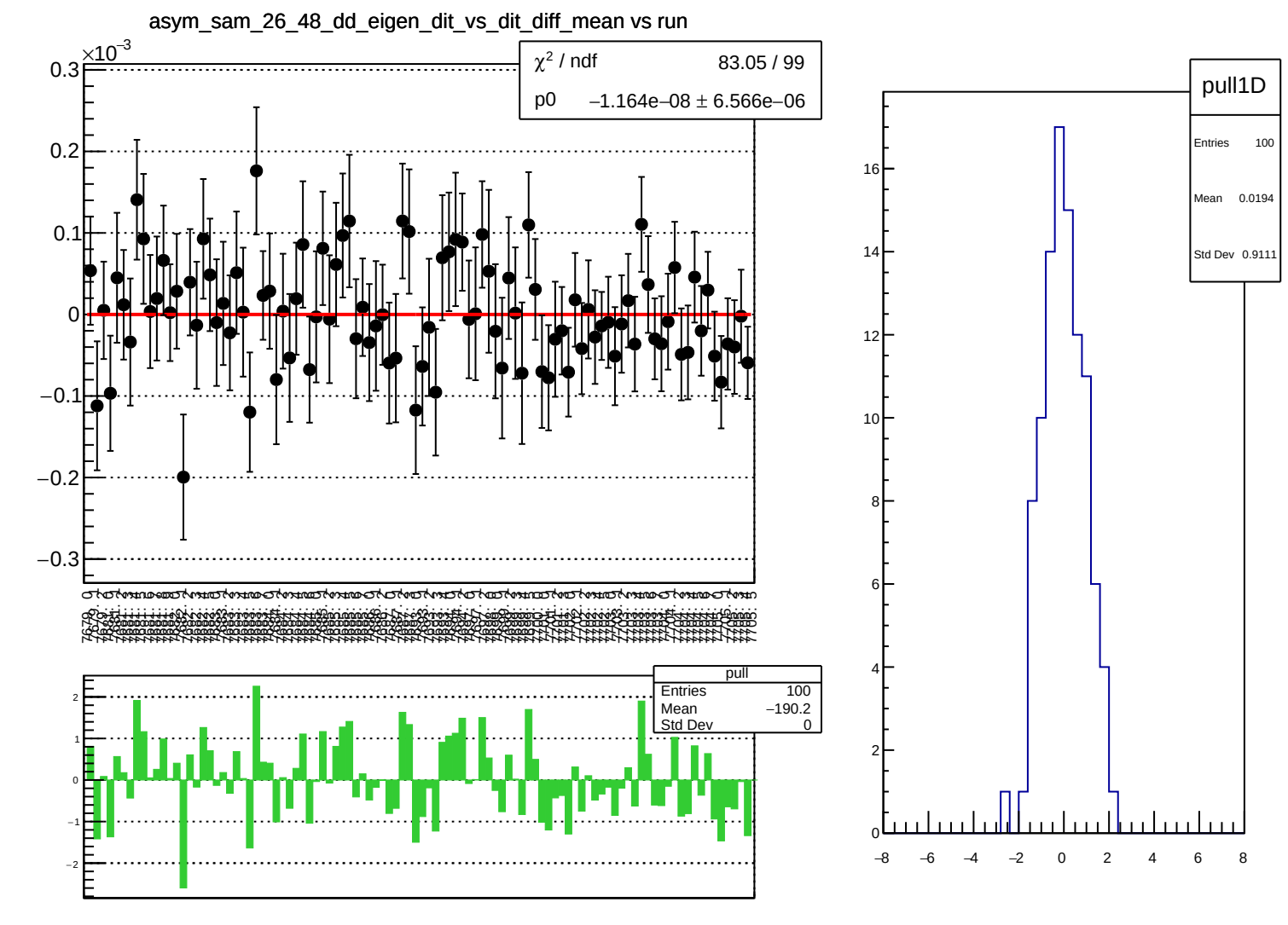

pull1D
Entries 100
Mean −0.002584
Std Dev 0.9377

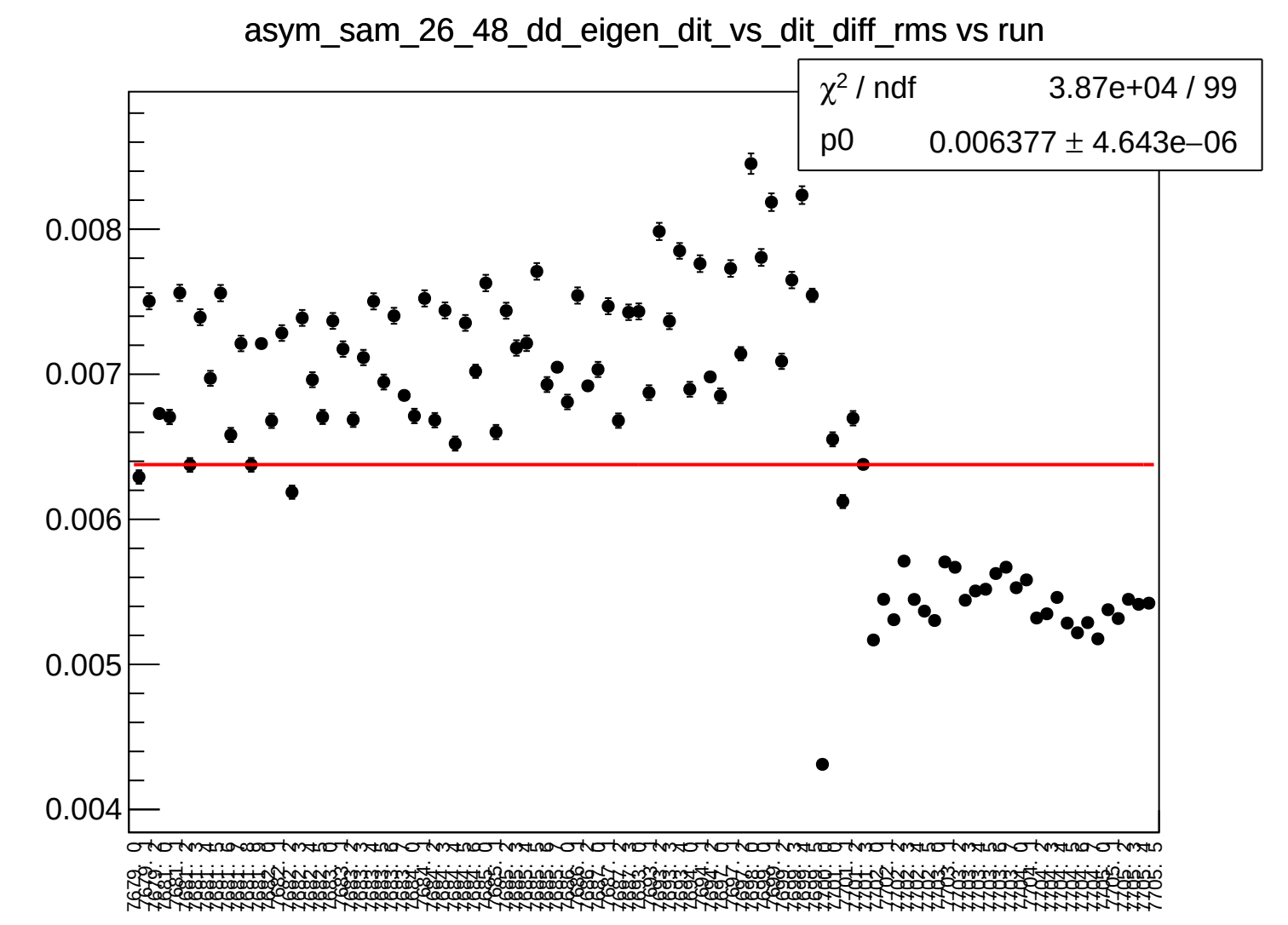

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.97e+04 / 99
p0 52.98 ± 0.03848
160
140
120
100
80
60
40

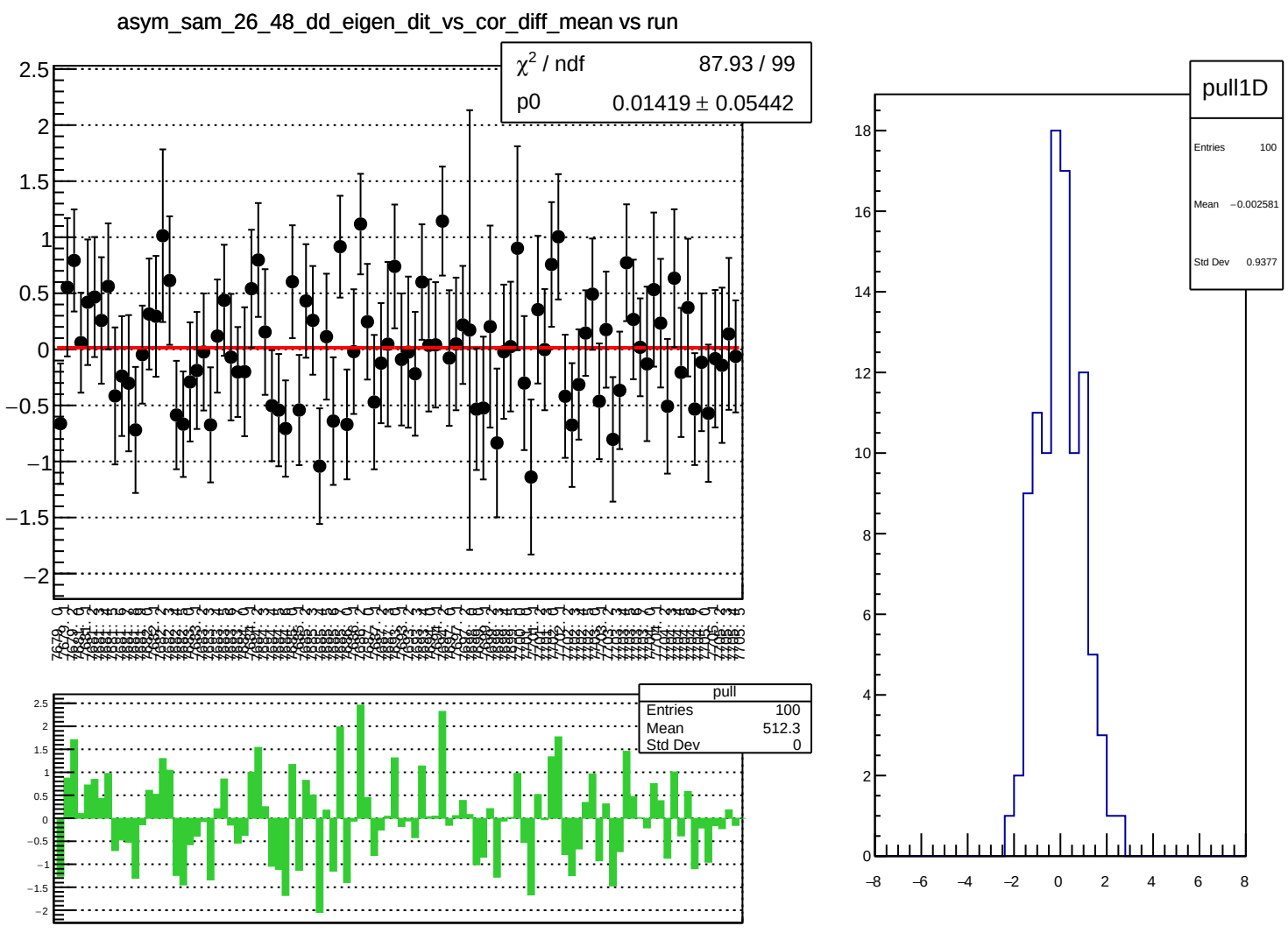

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.93 / 99
p0 0.01419 ± 0.05442
pull
Entries 100
Mean 511.5
Std Dev 0

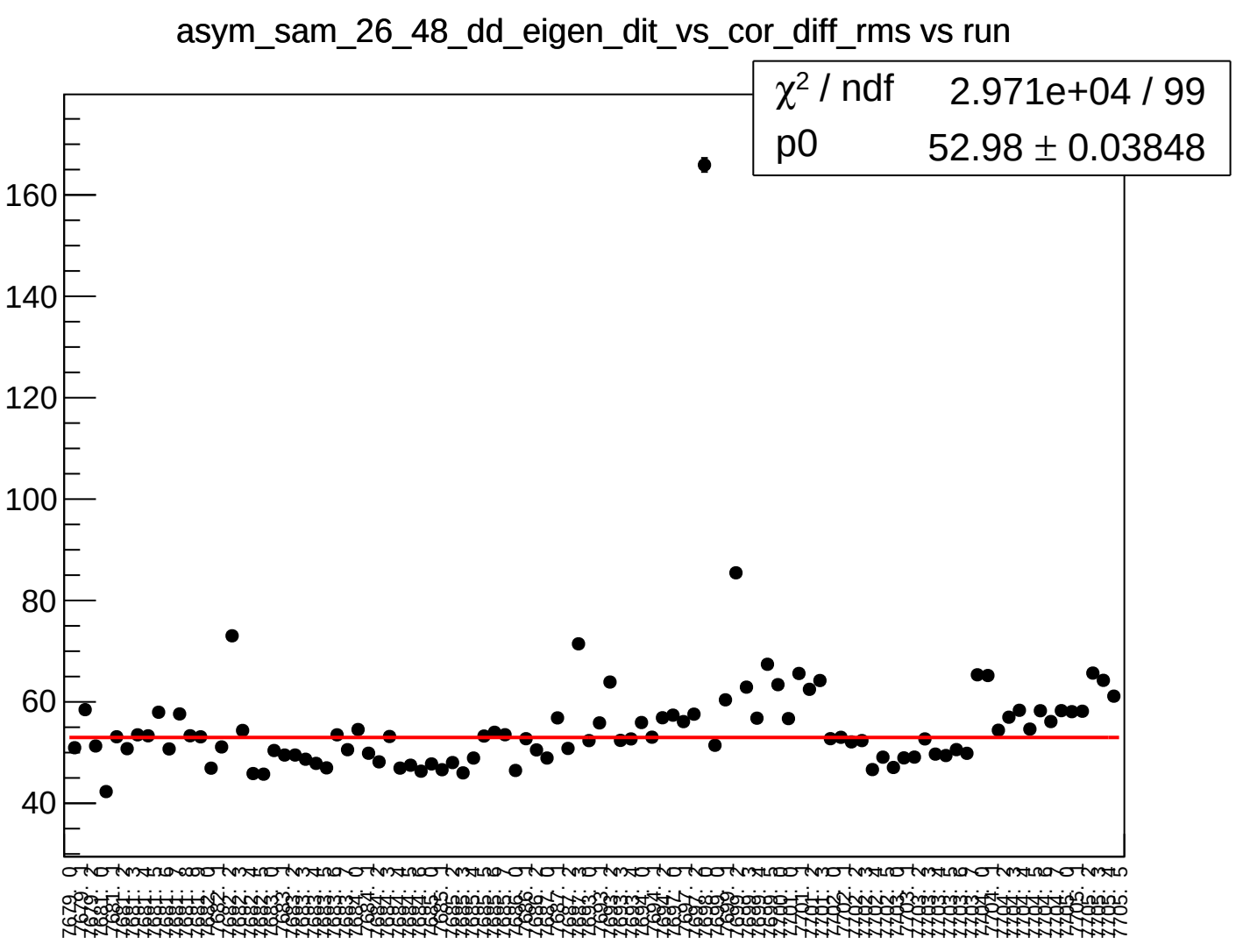

pull1D
Entries 100
Mean −0.002584
Std Dev 0.9377

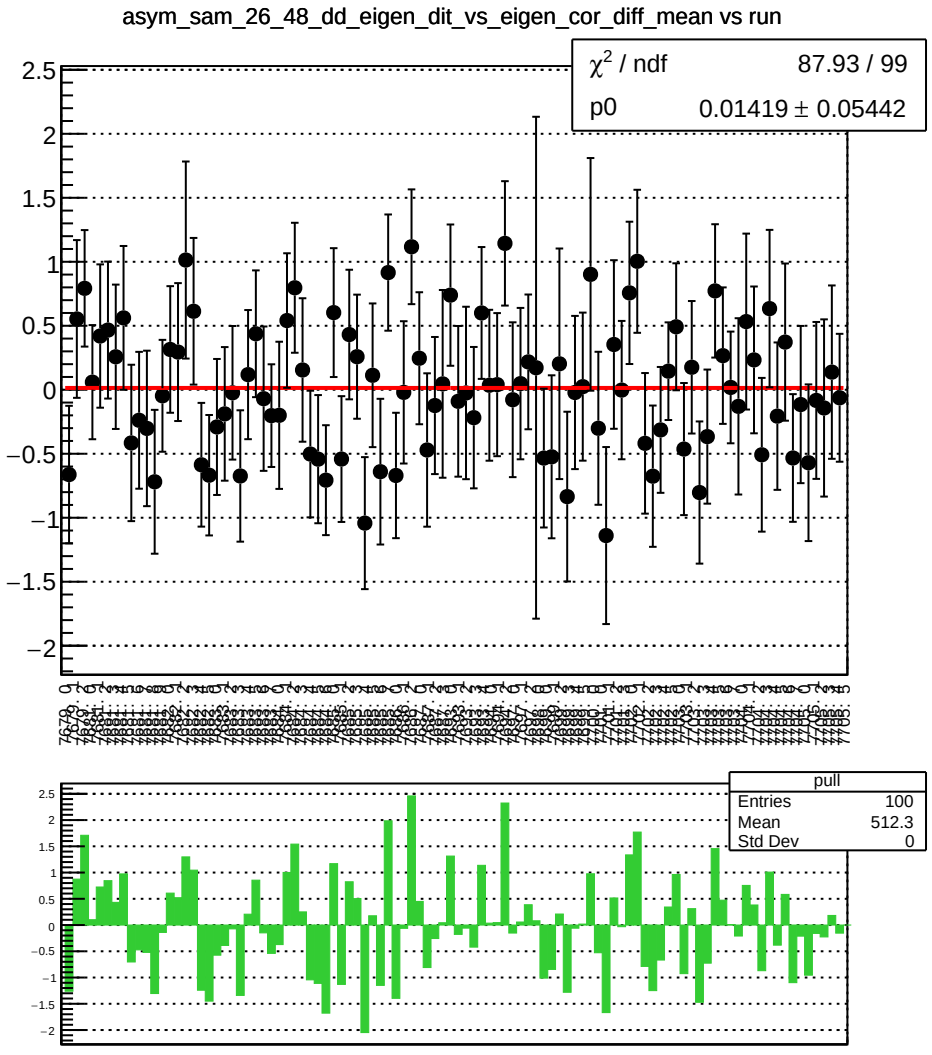

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.97e+04 / 99
p0 52.98 ± 0.03848
160
140
120
100
80
60
40

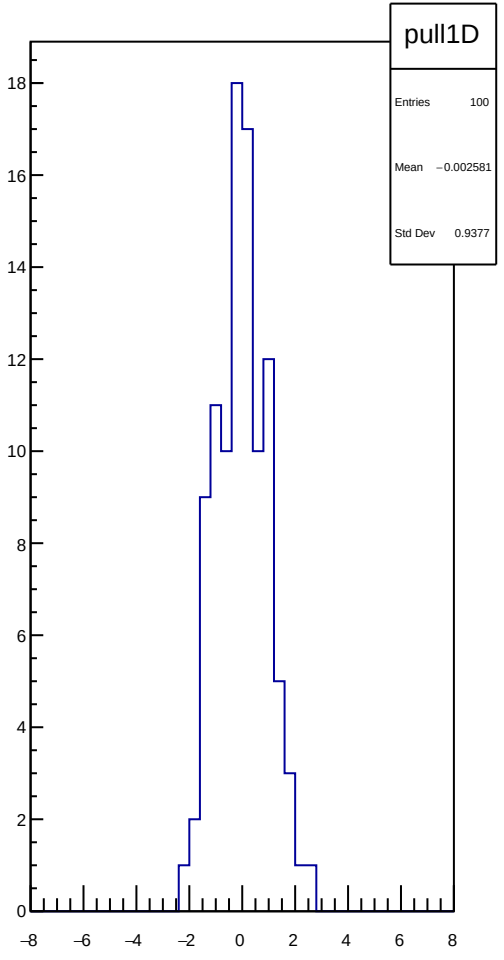

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.05 / 99
p0 −1.164e−08 ± 6.566e−06
pull
Entries 100
Mean −190.2
Std Dev 0
pull1D
Entries 100
Mean 0.0194
Std Dev 0.9111

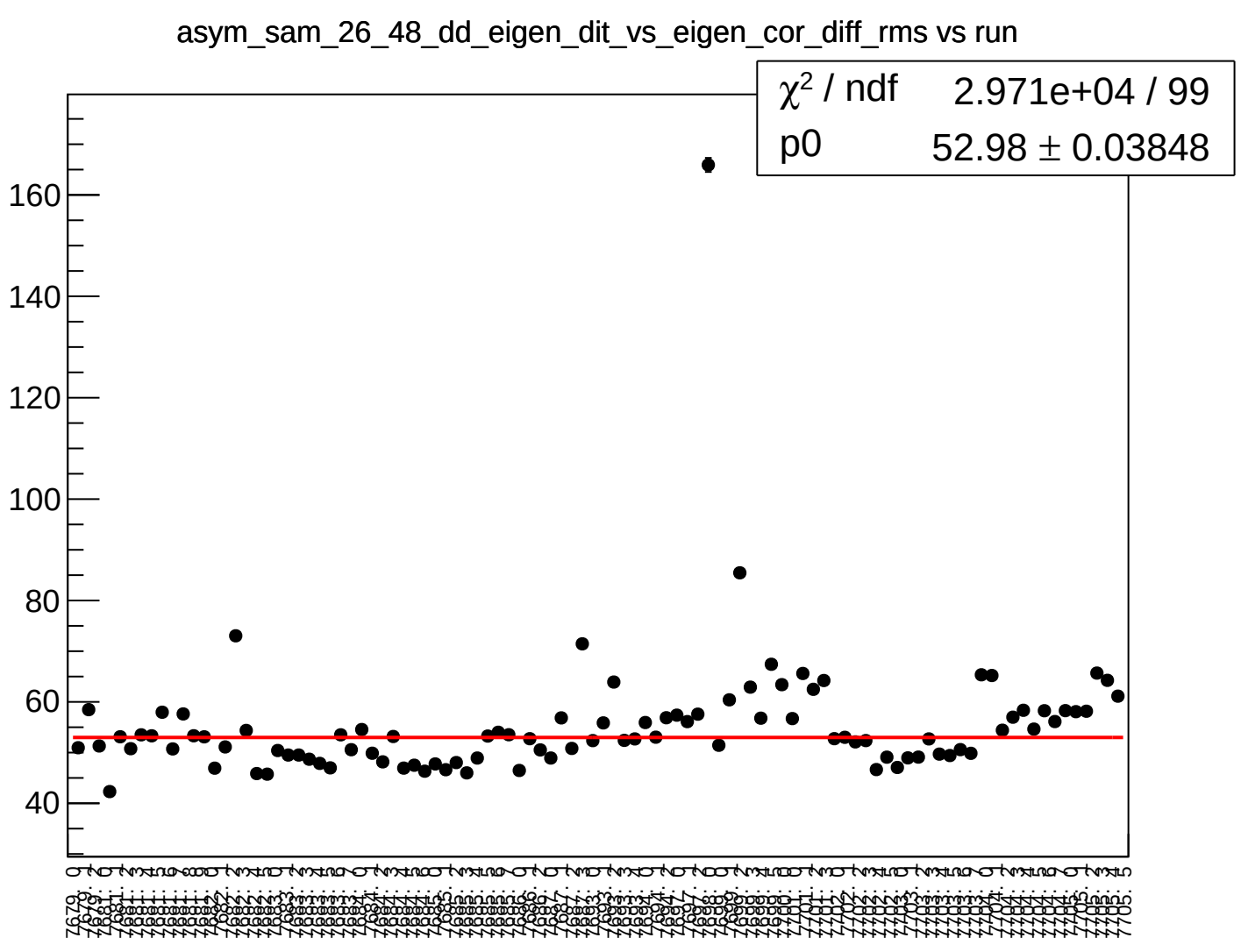

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.87e+04 / 99
p0 0.006377 ± 4.643e−06
0.008
0.007
0.006
0.005
0.004

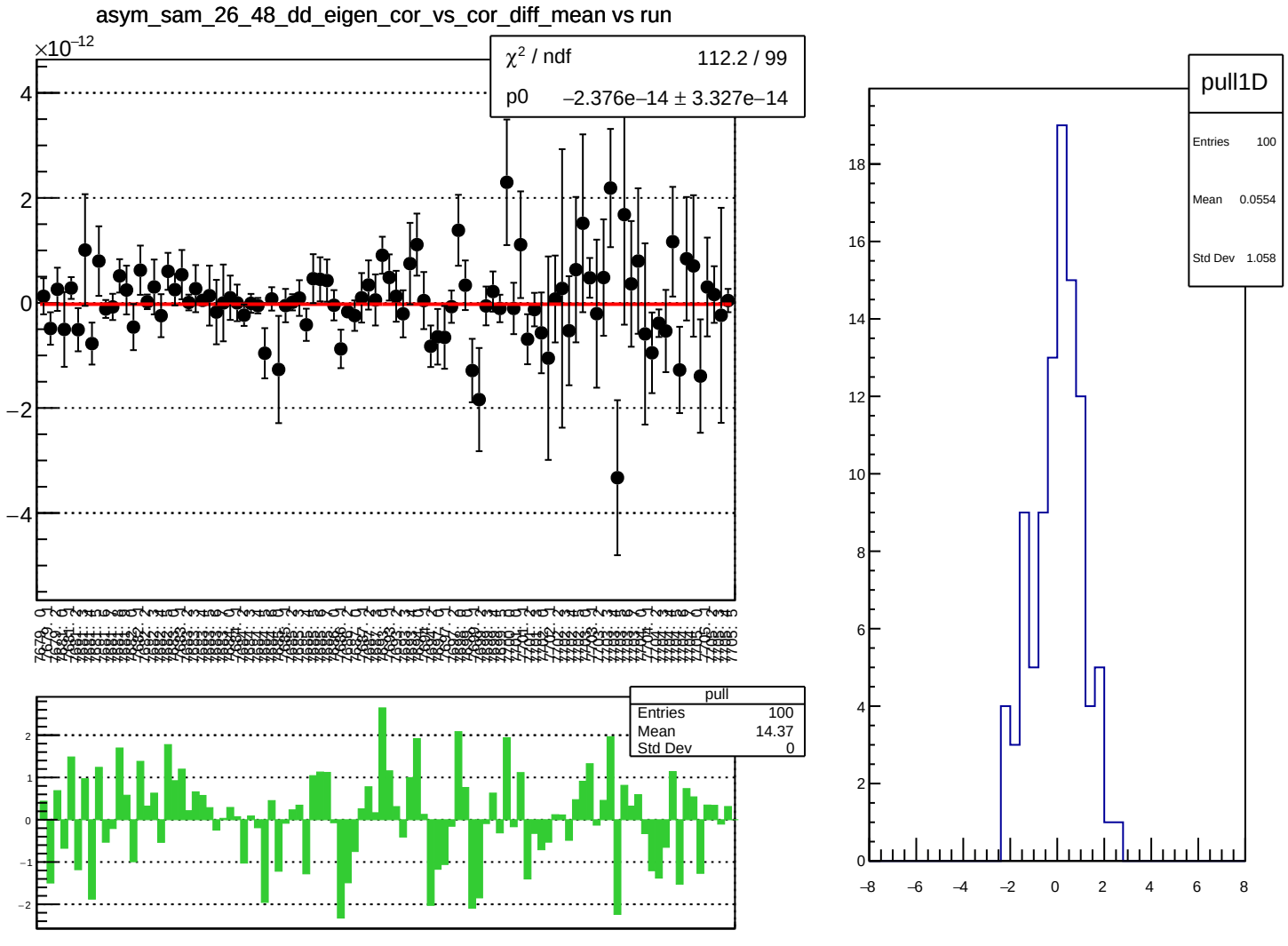

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.93 / 99
p0 0.01419 ± 0.05442
pull
Entries 100
Mean 512.3
Std Dev 0
pull1D
Entries 100
Mean −0.002581
Std Dev 0.9377

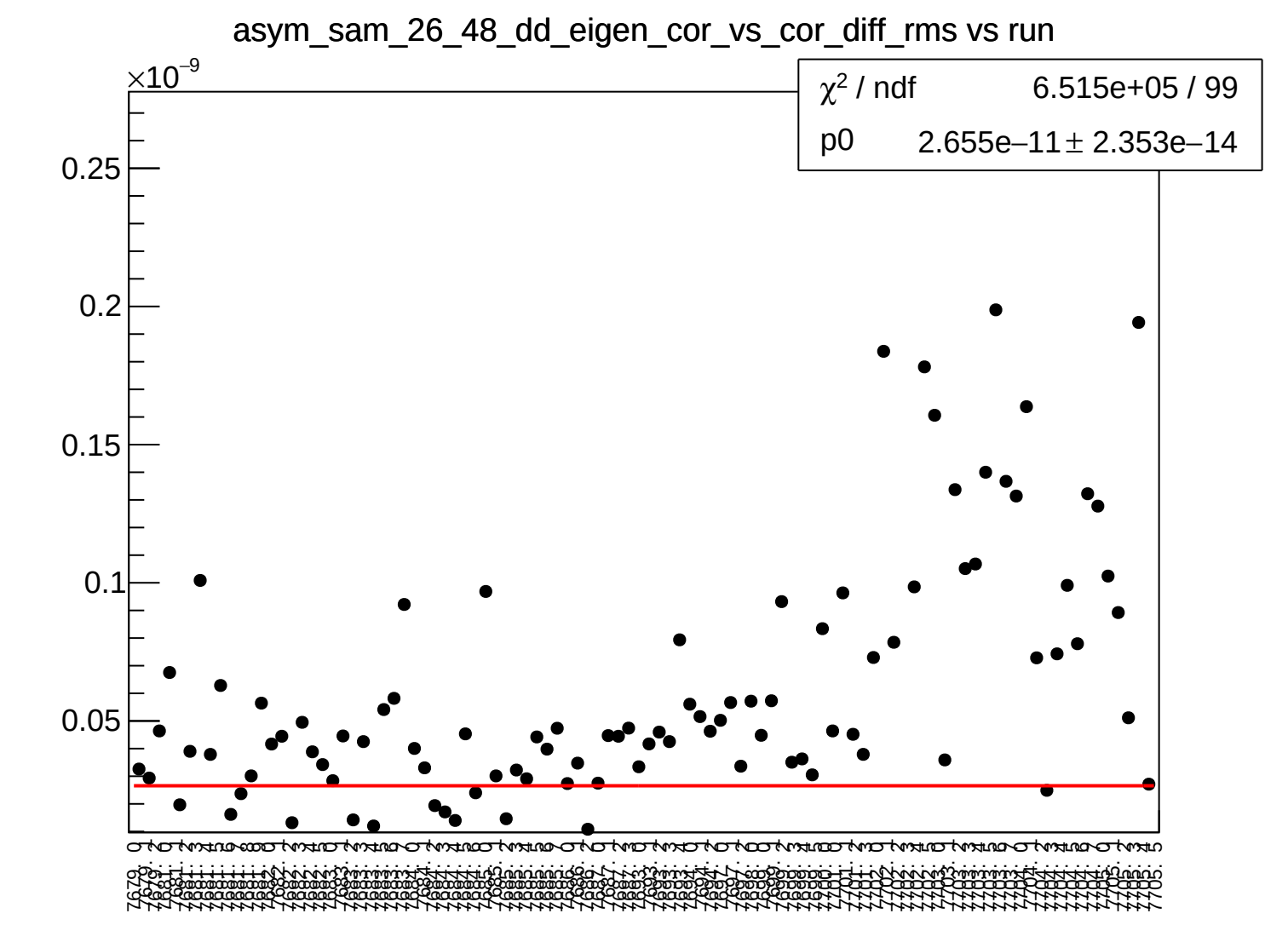

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.971e+04 / 99
p0 52.98 ± 0.03848
160
140
120
100
80
60
40

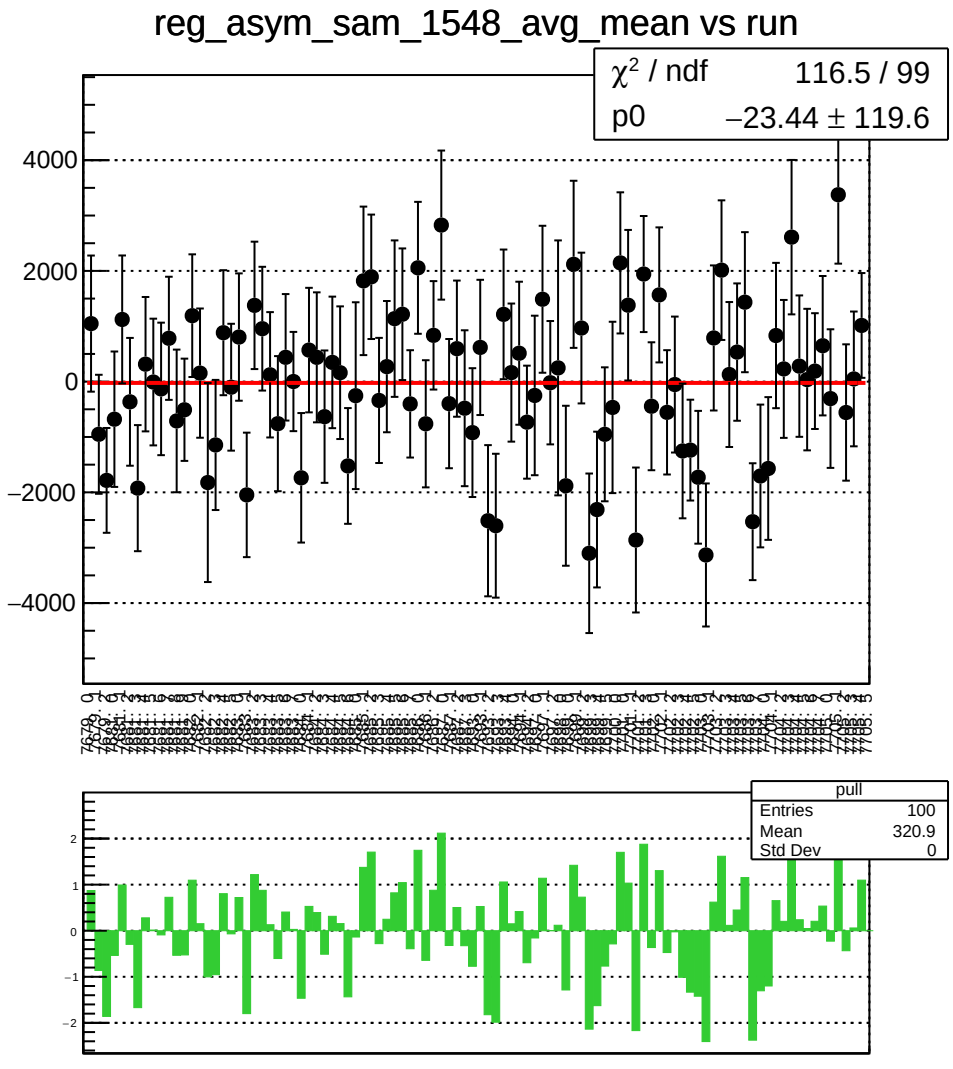

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.93 / 99
p0 0.01419 ± 0.05442
pull
Entries 100
Mean 512.3
Std Dev 0

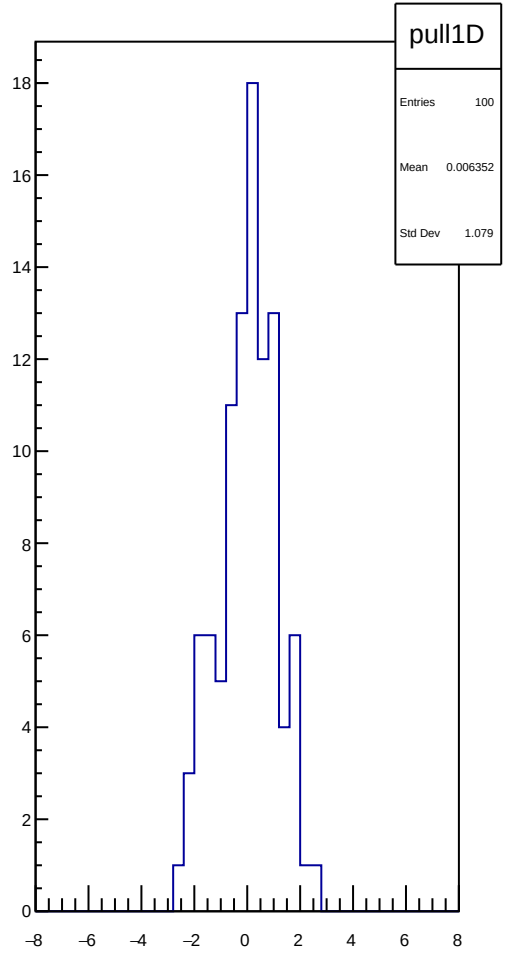

pull1D
Entries 100
Mean −0.002581
Std Dev 0.9377

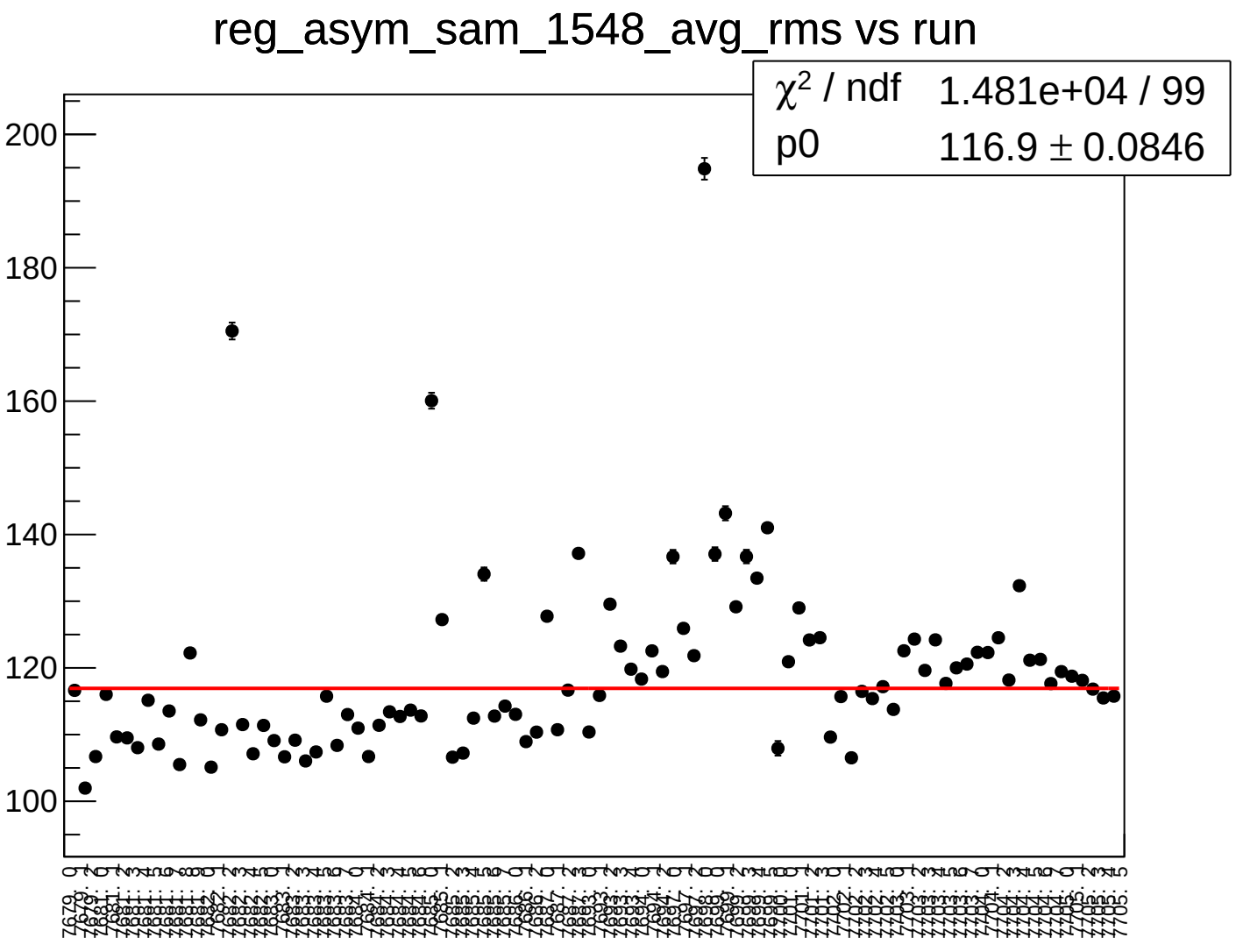

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.971e+04 / 99
p0 52.98 ± 0.03848
160
140
120
100
80
60
40

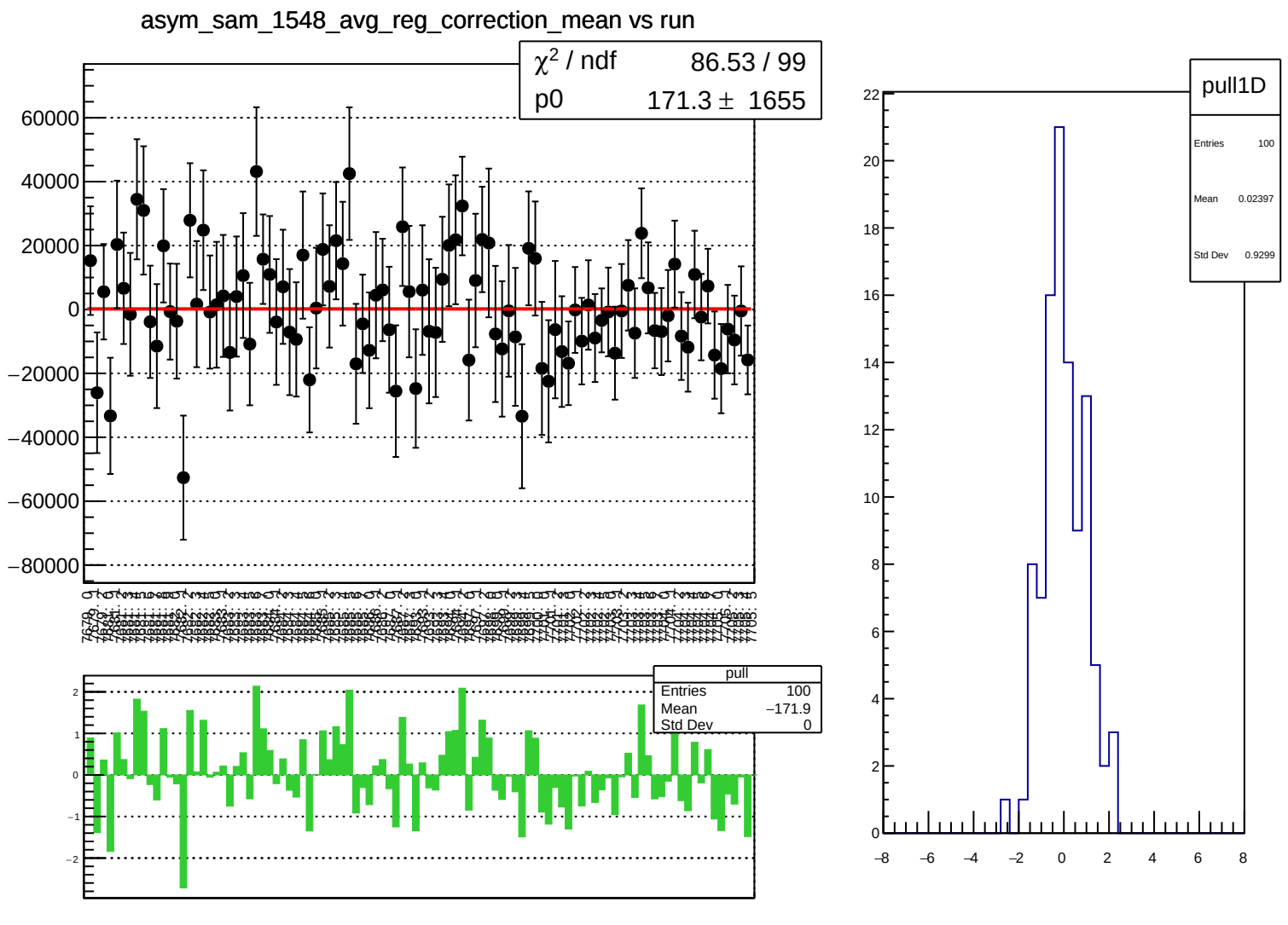

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 112.2 / 99
p0 −2.376e−14 ± 3.327e−14
pull
Entries 100
Mean 14.37
Std Dev 0
pull1D
Entries 100
Mean 0.0554
Std Dev 1.058

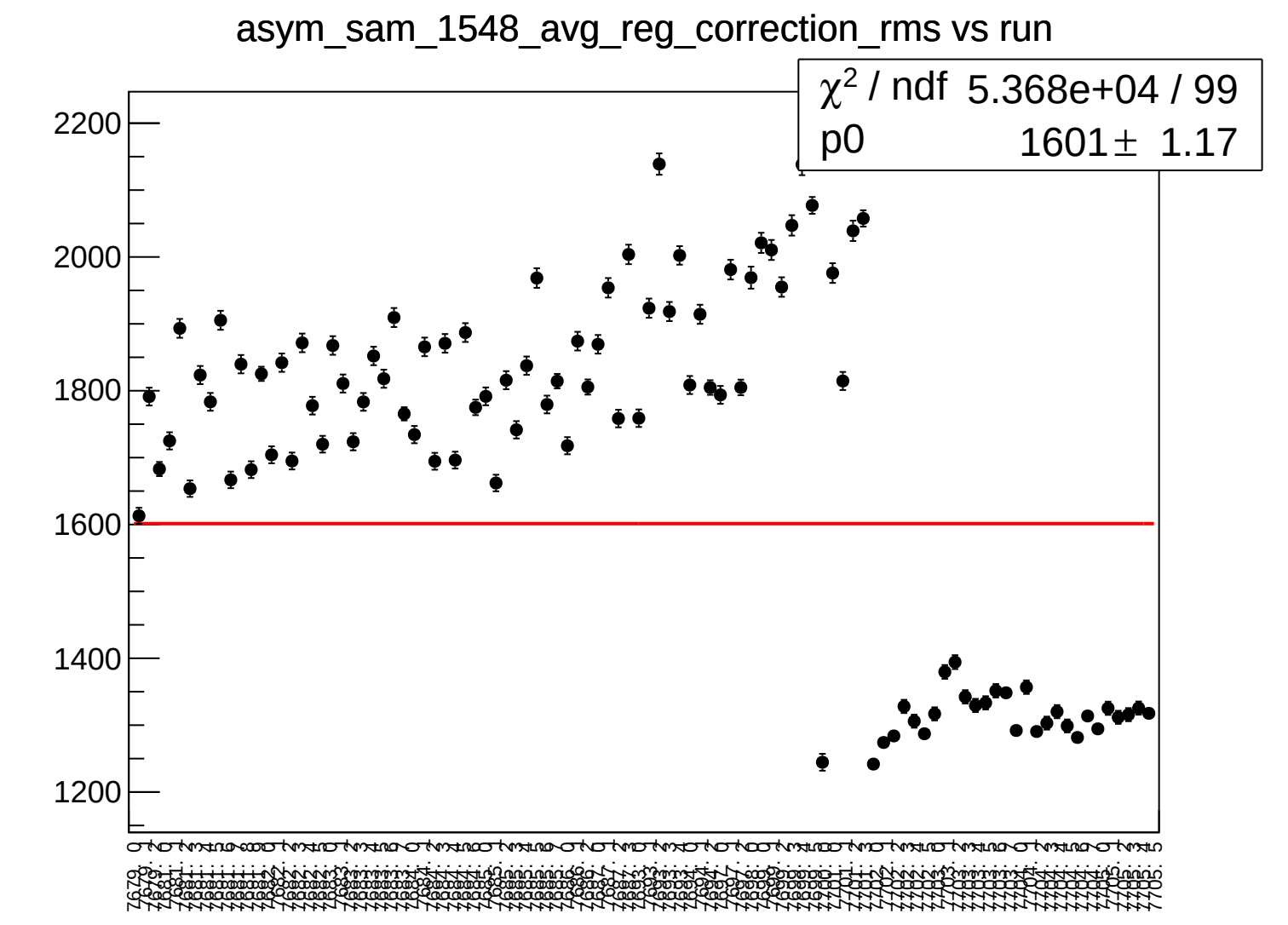

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.515e+05 / 99
p0 2.655e−11 ± 2.353e−14
0.25
0.2
0.15
0.1
0.05

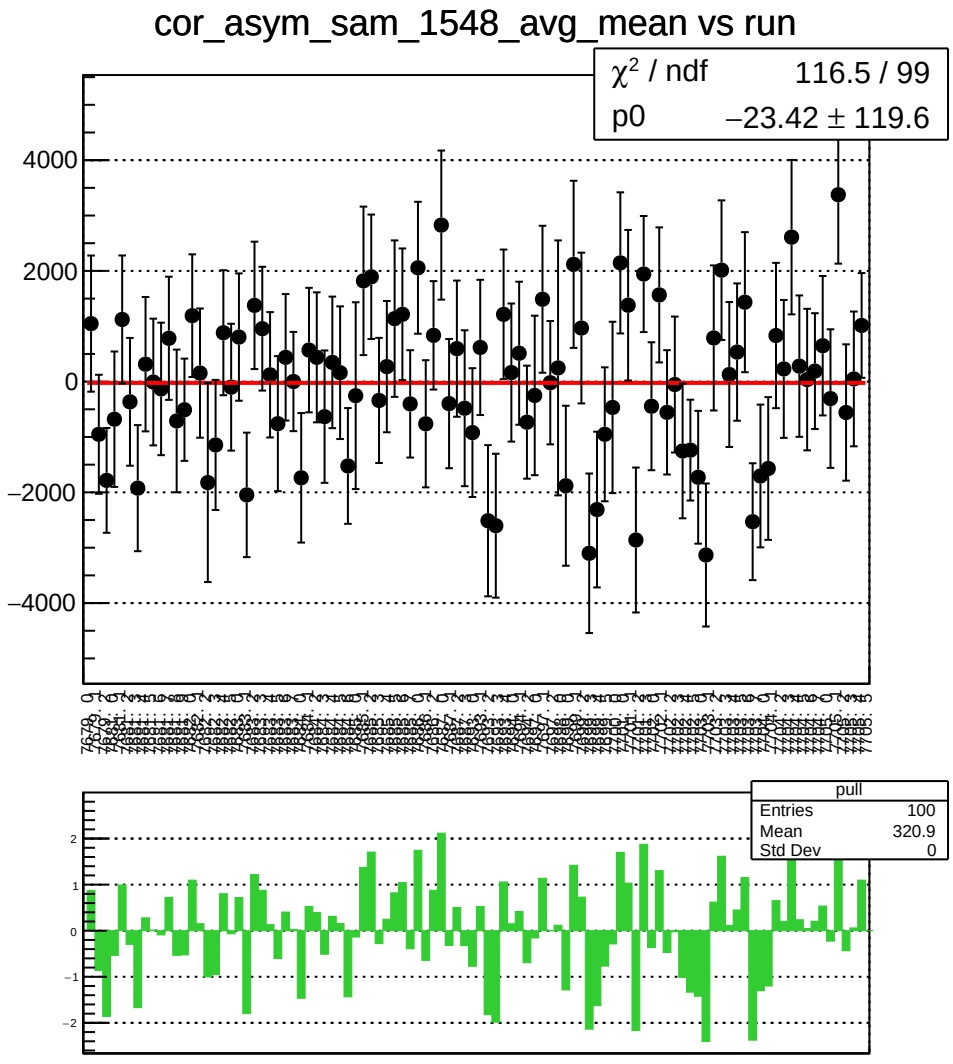

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 116.5 / 99
p0 −23.44 ± 119.6
4000
2000
0
−2000
−4000
pull
Entries 100
Mean 320.9
Std Dev 0
2
1
0
−1
−2

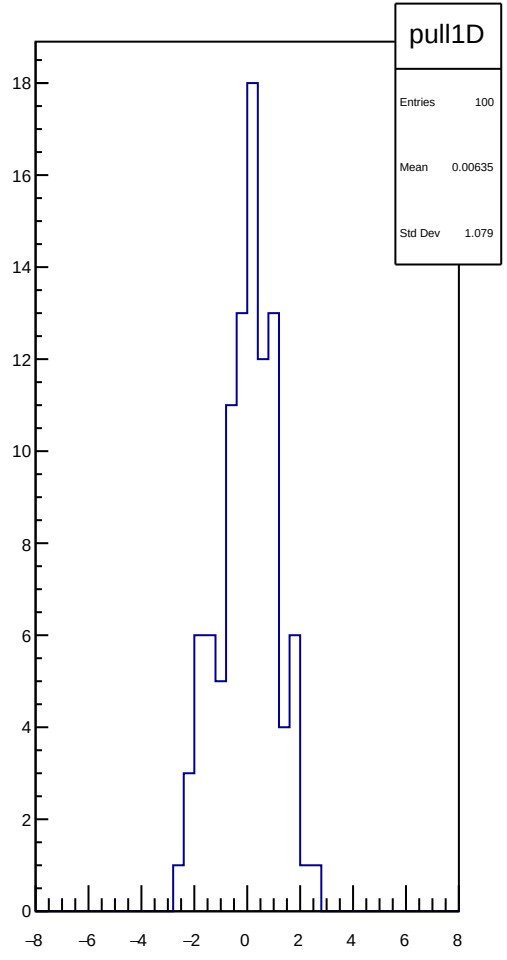

pull1D
Entries 100
Mean 0.006352
Std Dev 1.079
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

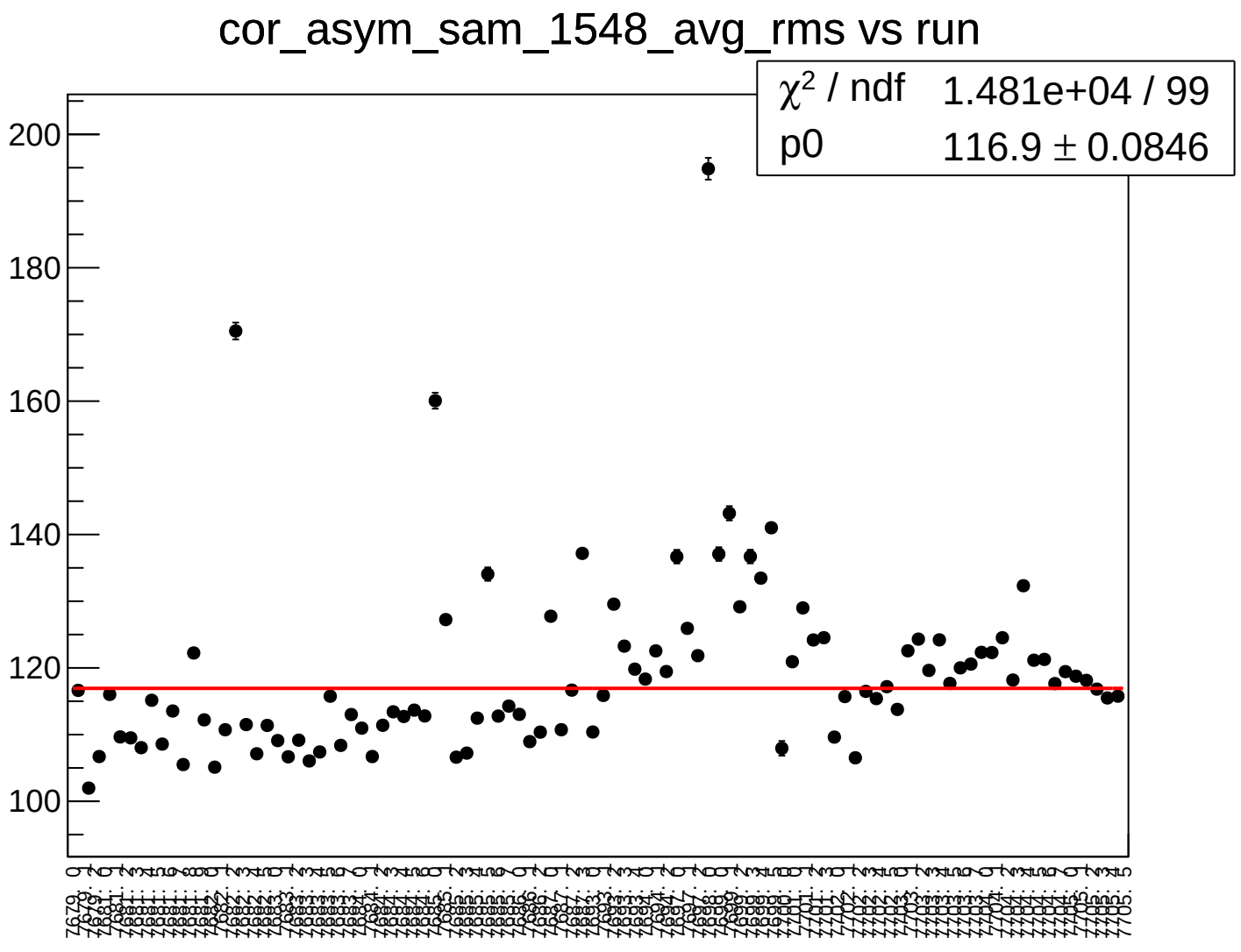

reg_asym_sam_1548_avg_rms vs run
χ^2 / ndf 1.481e+04 / 99
p0 116.9 ± 0.0846
200
180
160
140
120
100

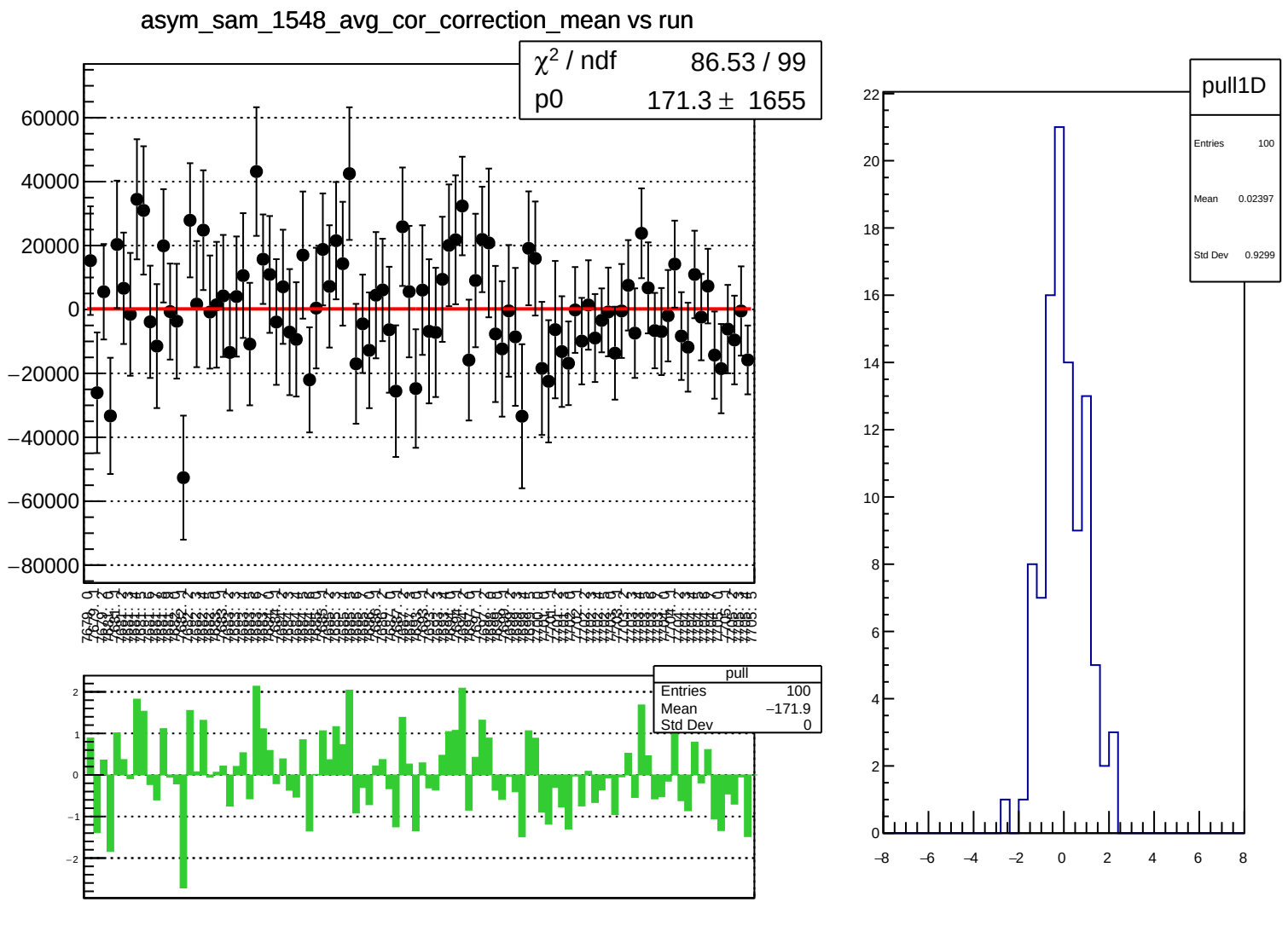

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 86.53 / 99
p0 171.3 ± 1655
pull
Entries 100
Mean −171.9
Std Dev 0
pull1D
Entries 100
Mean 0.02397
Std Dev 0.9299

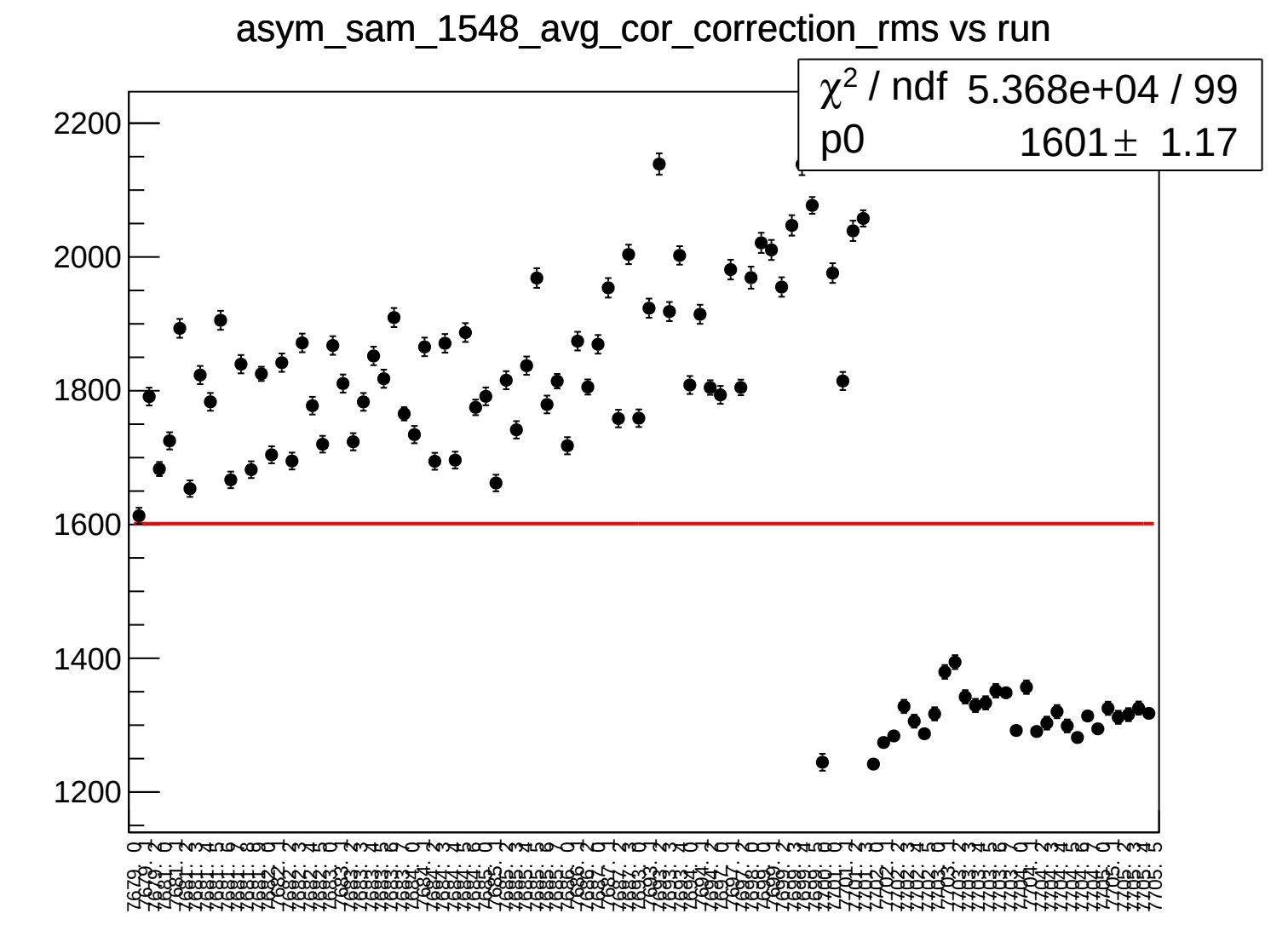

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 5.368e+04 / 99
p0 1601 ± 1.17
2200
2000
1800
1600
1400
1200

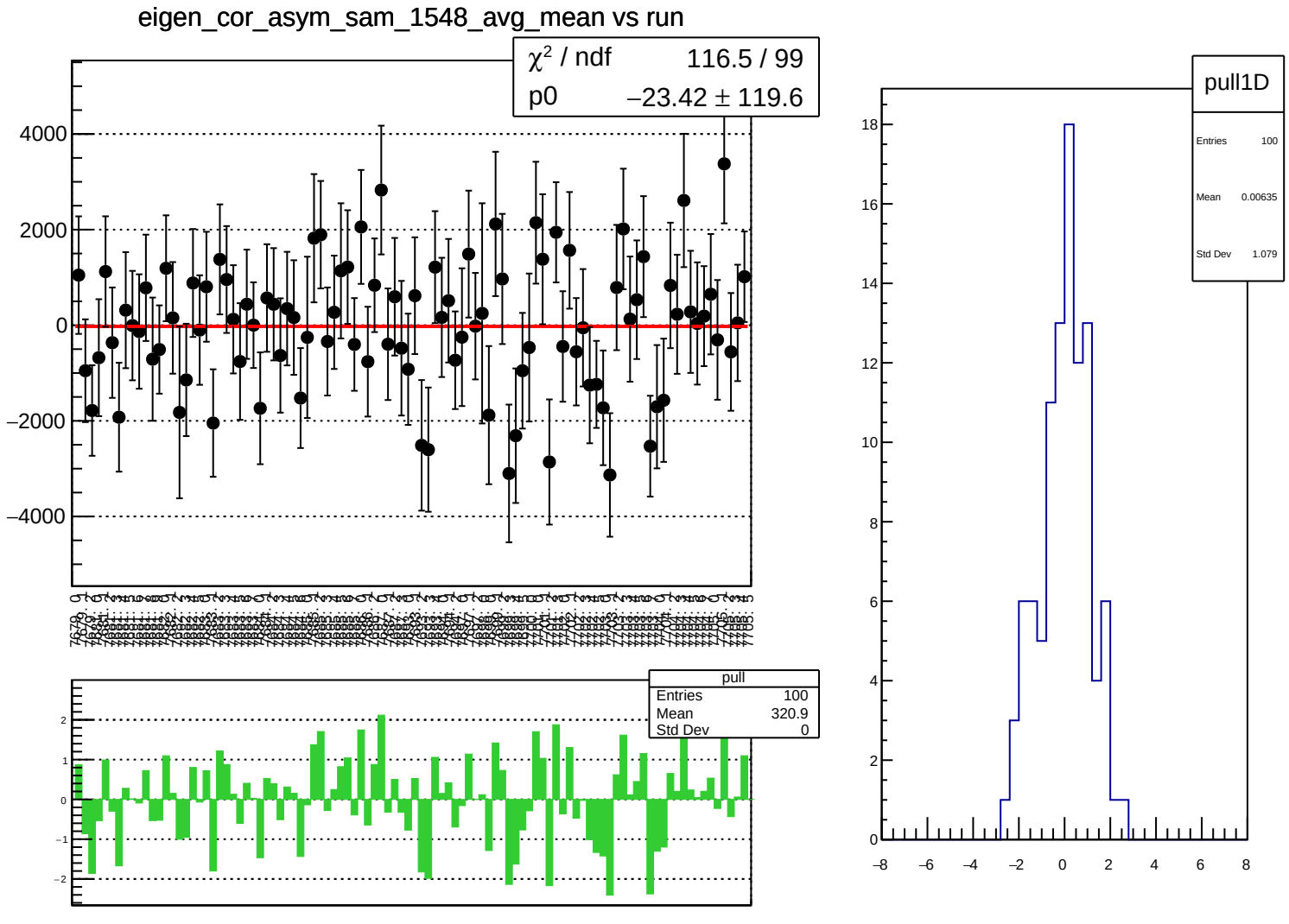

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 116.5 / 99
p0 −23.42 ± 119.6
4000
2000
0
−2000
−4000
pull
Entries 100
Mean 320.9
Std Dev 0
2
1
0
−1
−2

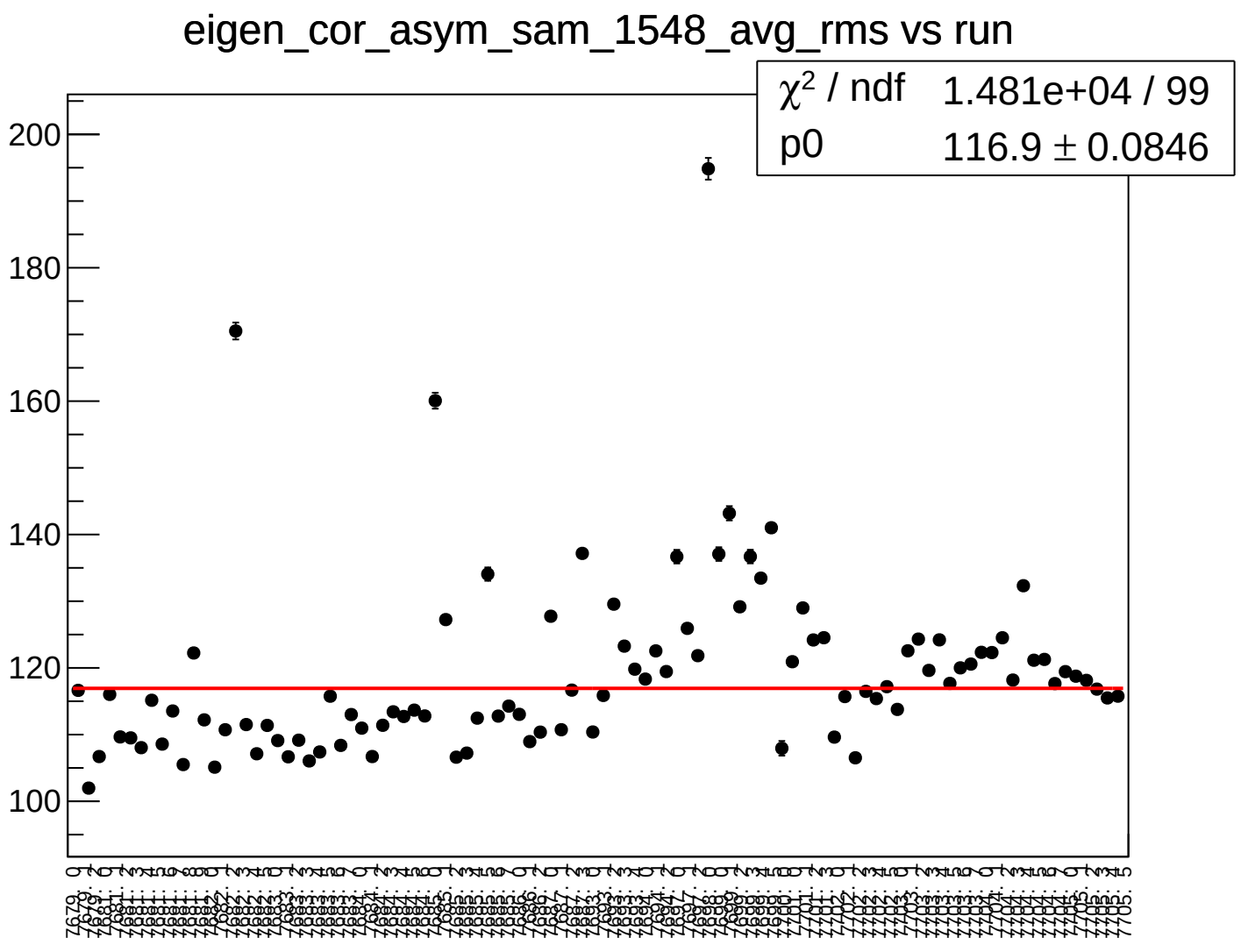

pull1D
Entries 100
Mean 0.00635
Std Dev 1.079
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

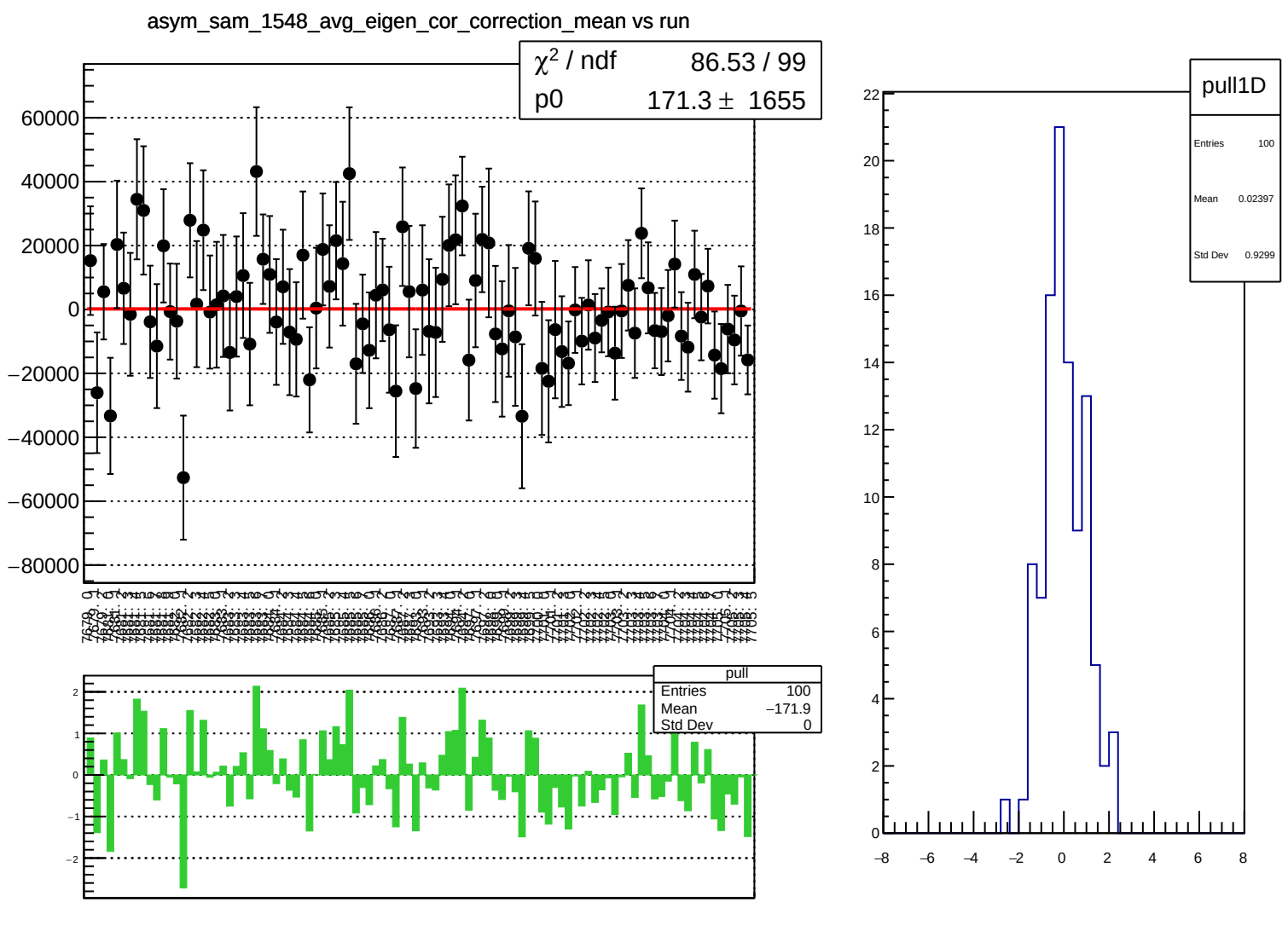

cor_asym_sam_1548_avg_rms vs run
χ² / ndf 1.481e+04 / 99
p0 116.9 ± 0.0846
200
180
160
140
120
100

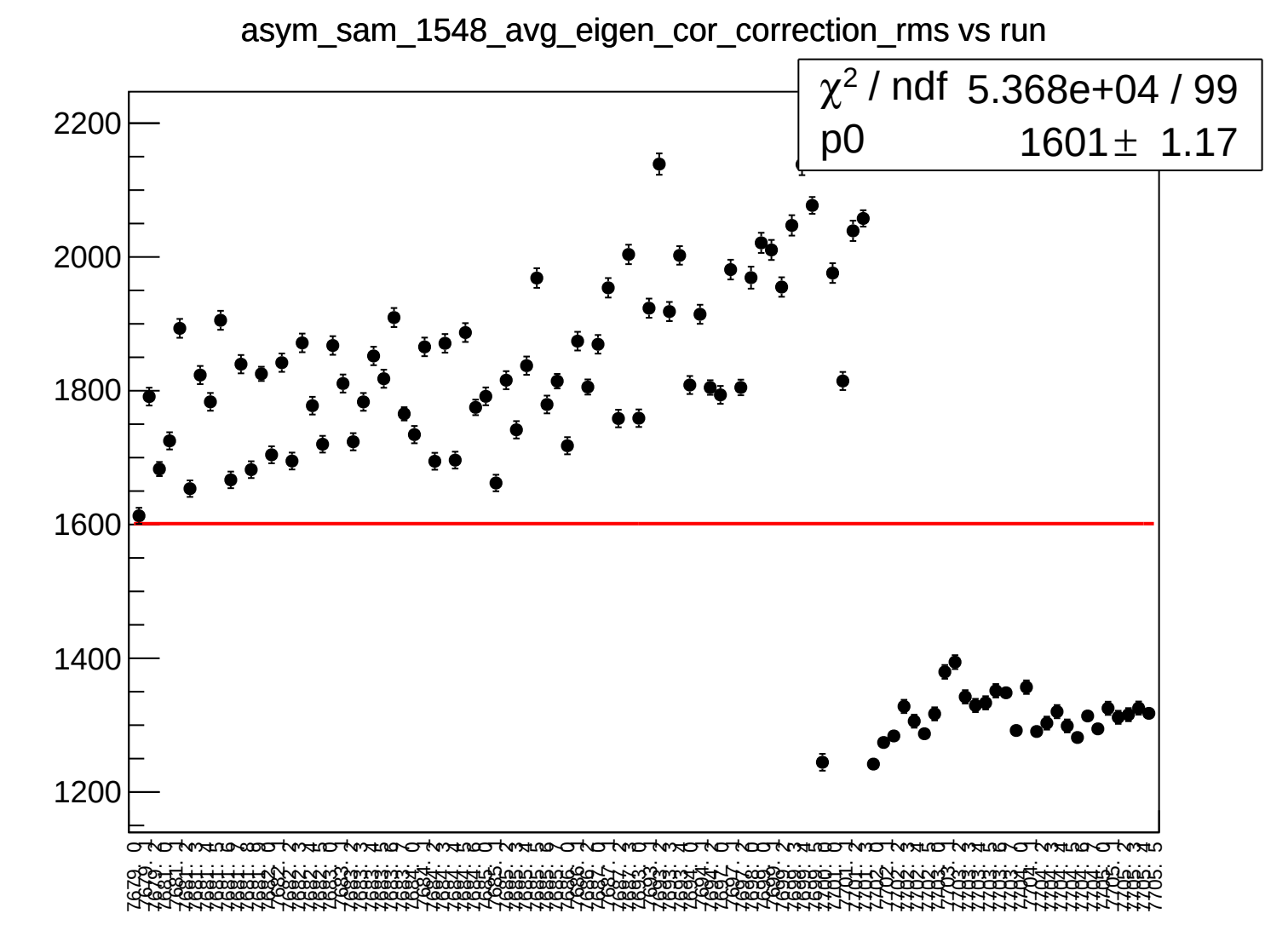

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 86.53 / 99
p0 171.3 ± 1655
pull
Entries 100
Mean −171.9
Std Dev 0
pull1D
Entries 100
Mean 0.02397
Std Dev 0.9299

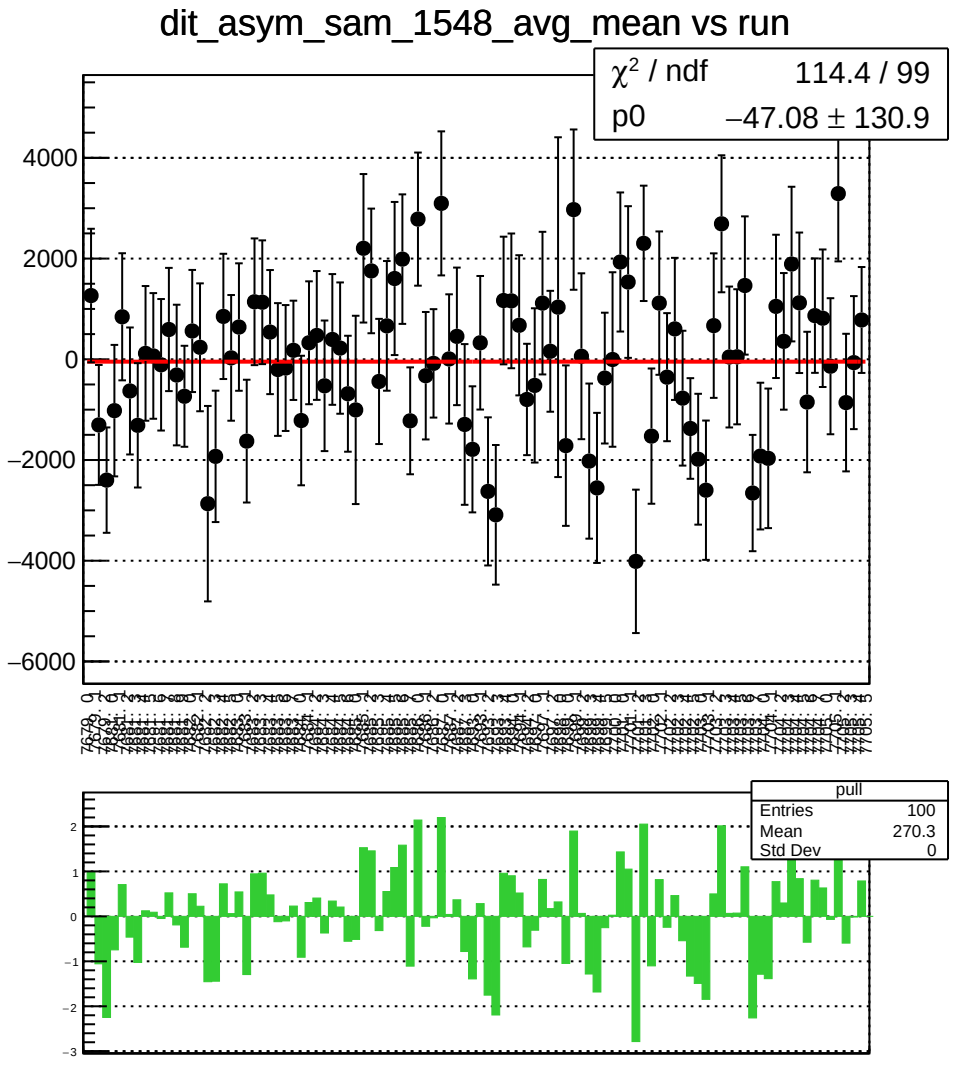

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 5.368e+04 / 99
p0 1601 ± 1.17
2200
2000
1800
1600
1400
1200

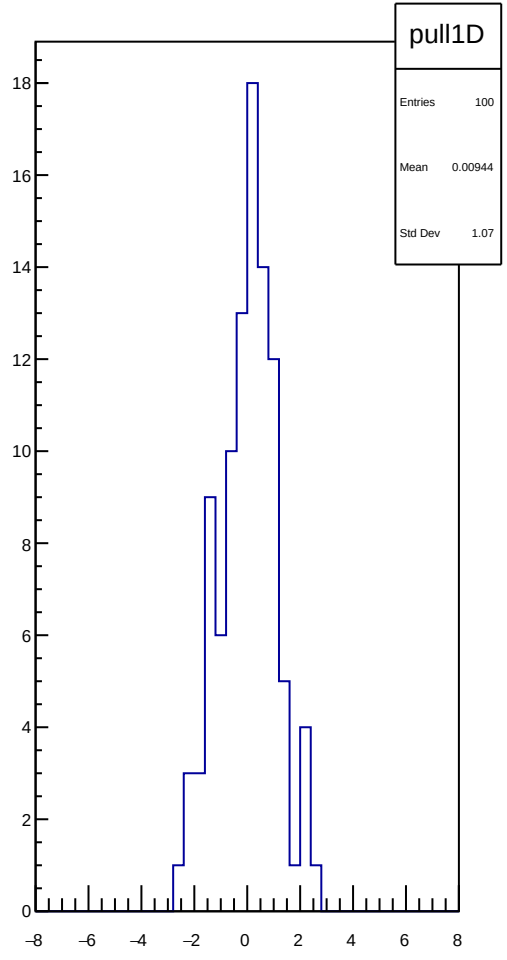

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 116.5 / 99
p0 −23.42 ± 119.6
4000
2000
0
−2000
−4000
pull
Entries 100
Mean 320.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.00635
Std Dev 1.079
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

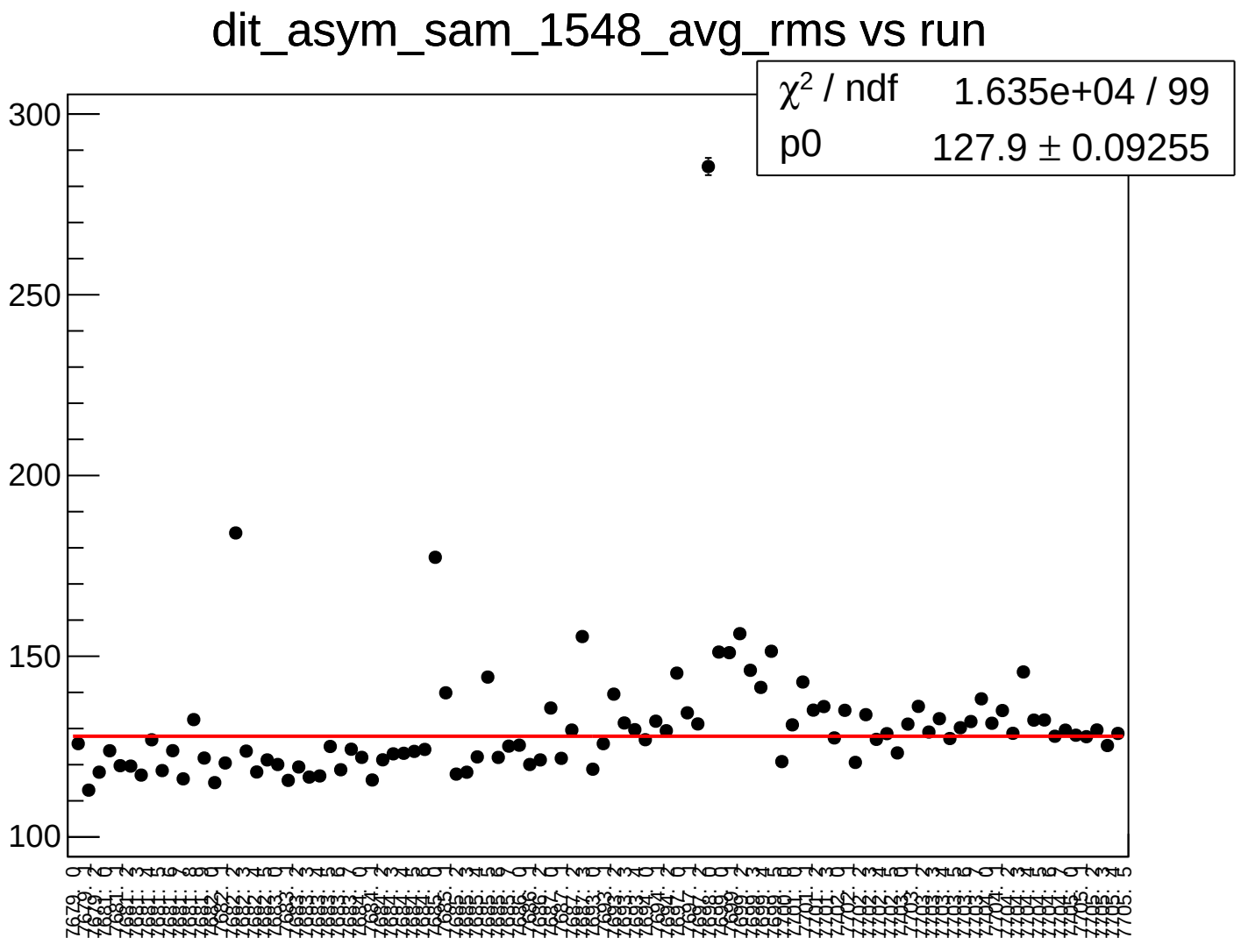

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 1.481e+04 / 99
p0 116.9 ± 0.0846
200
180
160
140
120
100

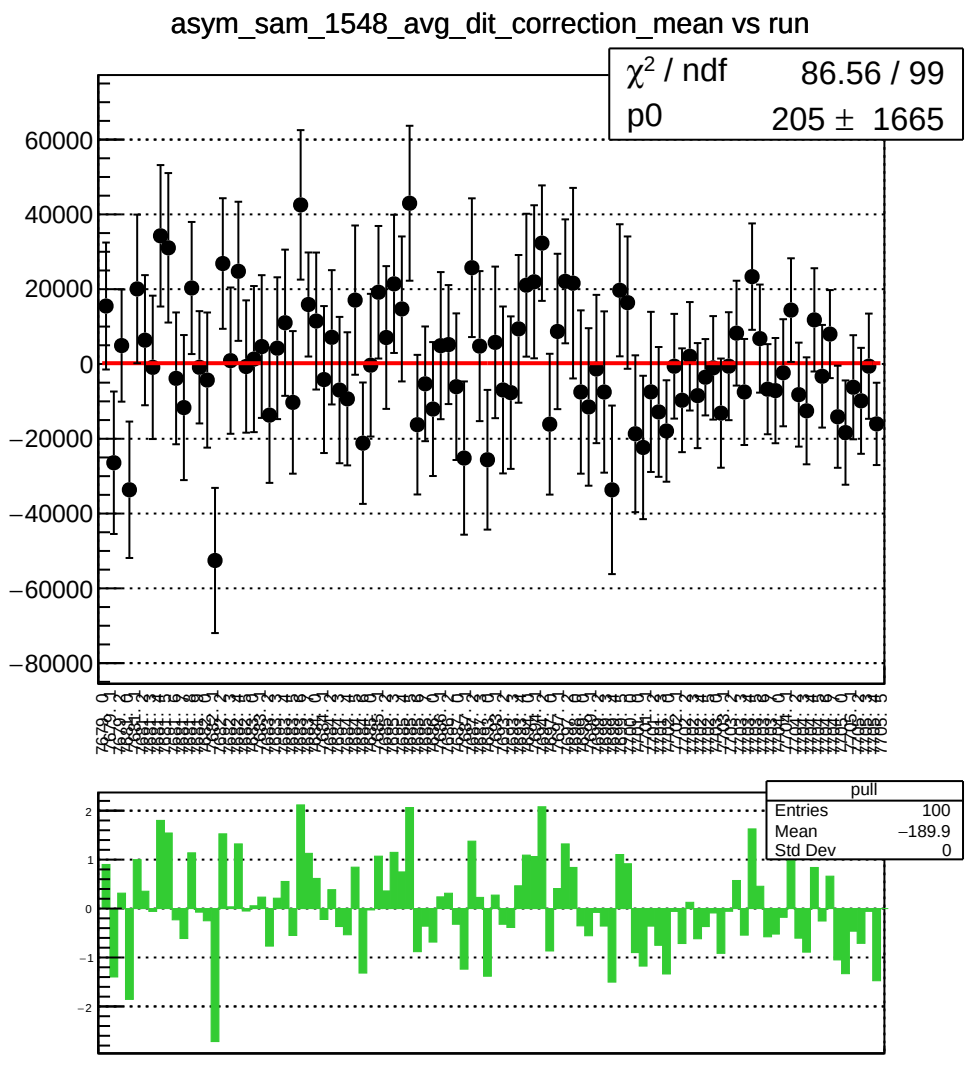

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 86.53 / 99
p0 171.3 ± 1655
pull
Entries 100
Mean −171.9
Std Dev 0
pull1D
Entries 100
Mean 0.02397
Std Dev 0.9299

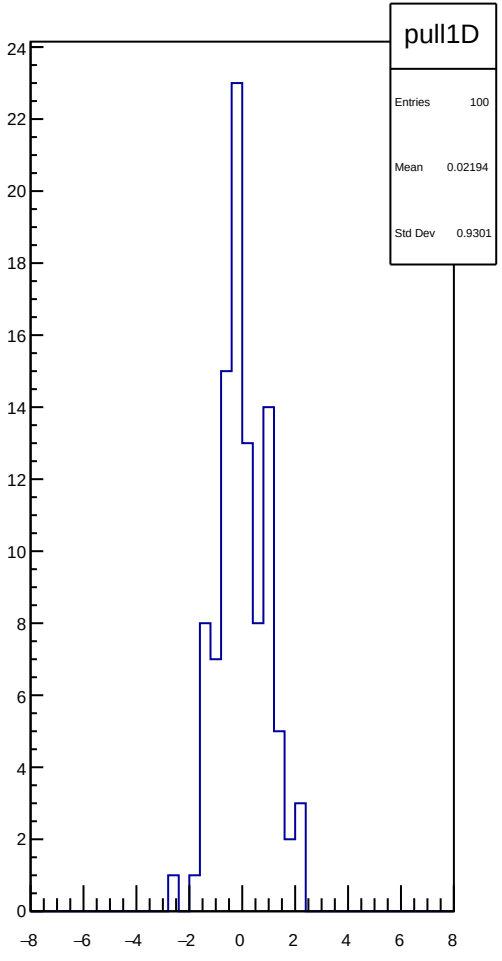

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.368e+04 / 99
p0 1601 ± 1.17
2200
2000
1800
1600
1400
1200

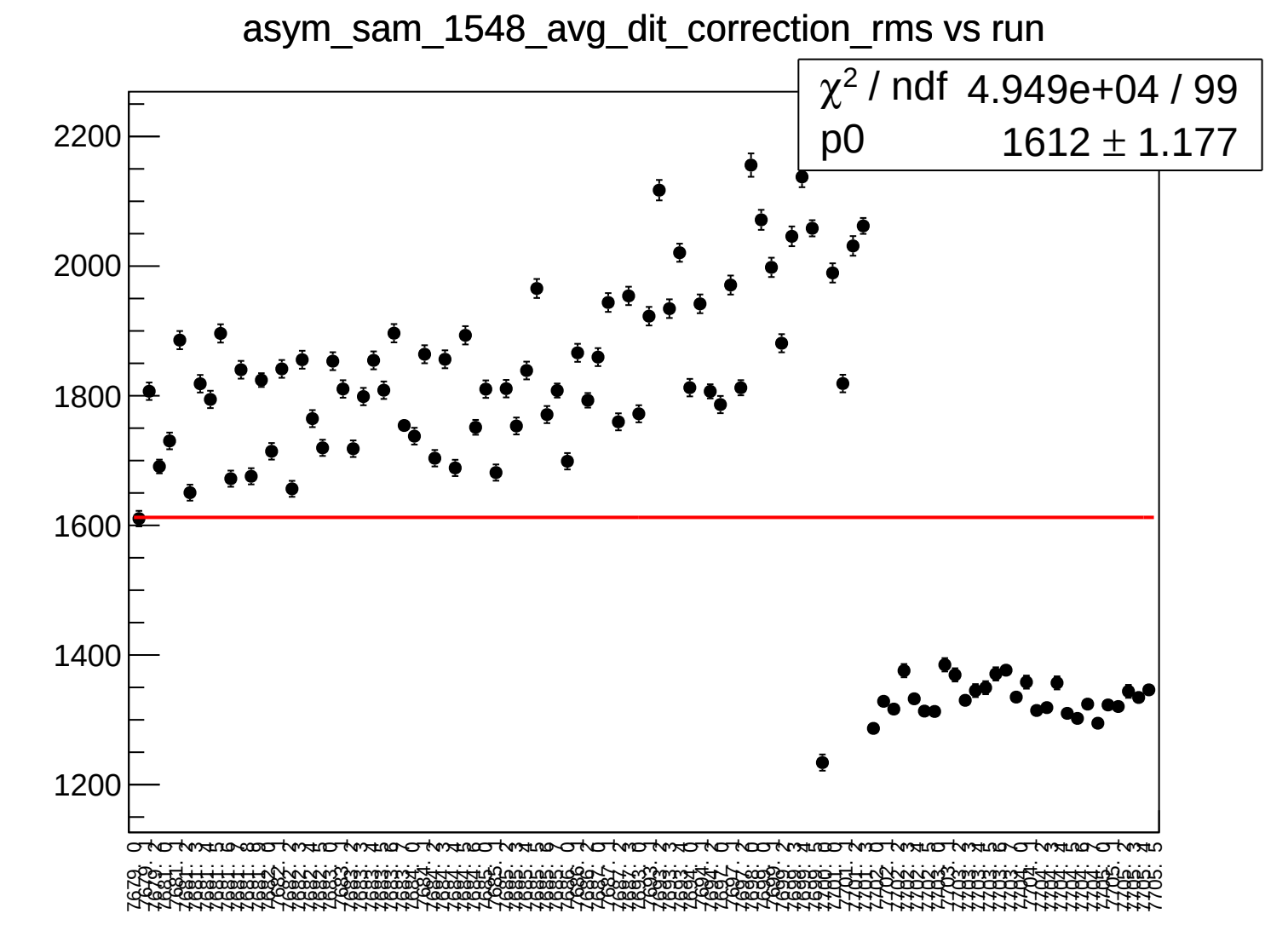

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 114.4 / 99
p0 −47.08 ± 130.9
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 270.3
Std Dev 0
2
1
0
−1
−2
−3

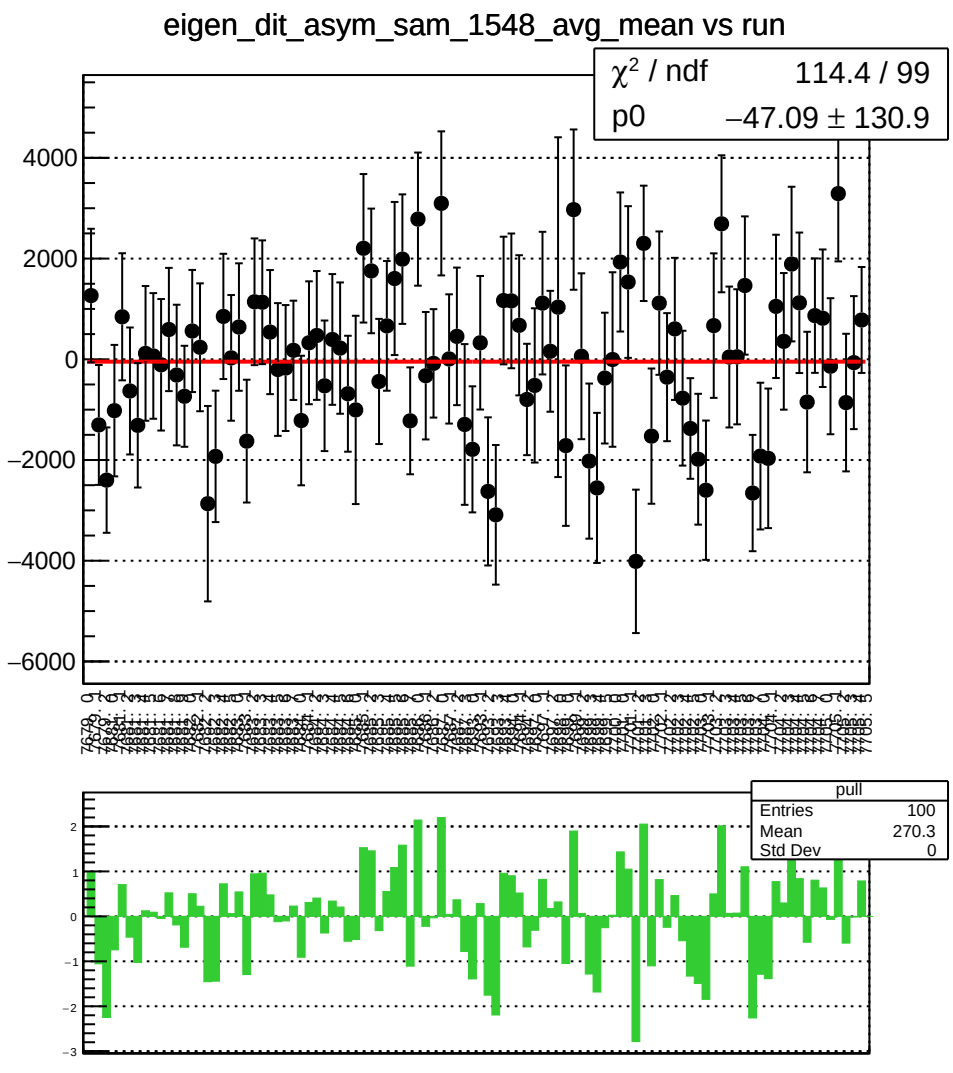

pull1D
Entries 100
Mean 0.00944
Std Dev 1.07
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

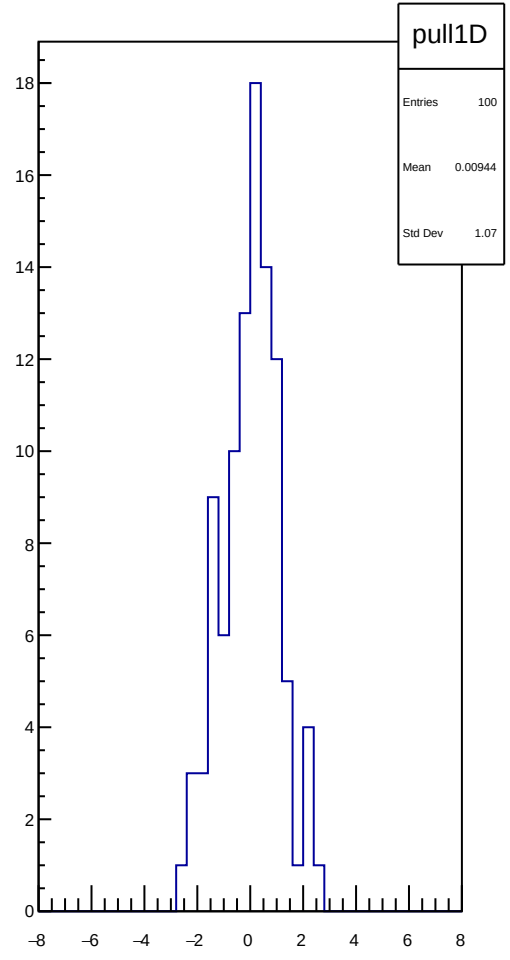

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 1.635e+04 / 99
p0 127.9 ± 0.09255
300
250
200
150
100

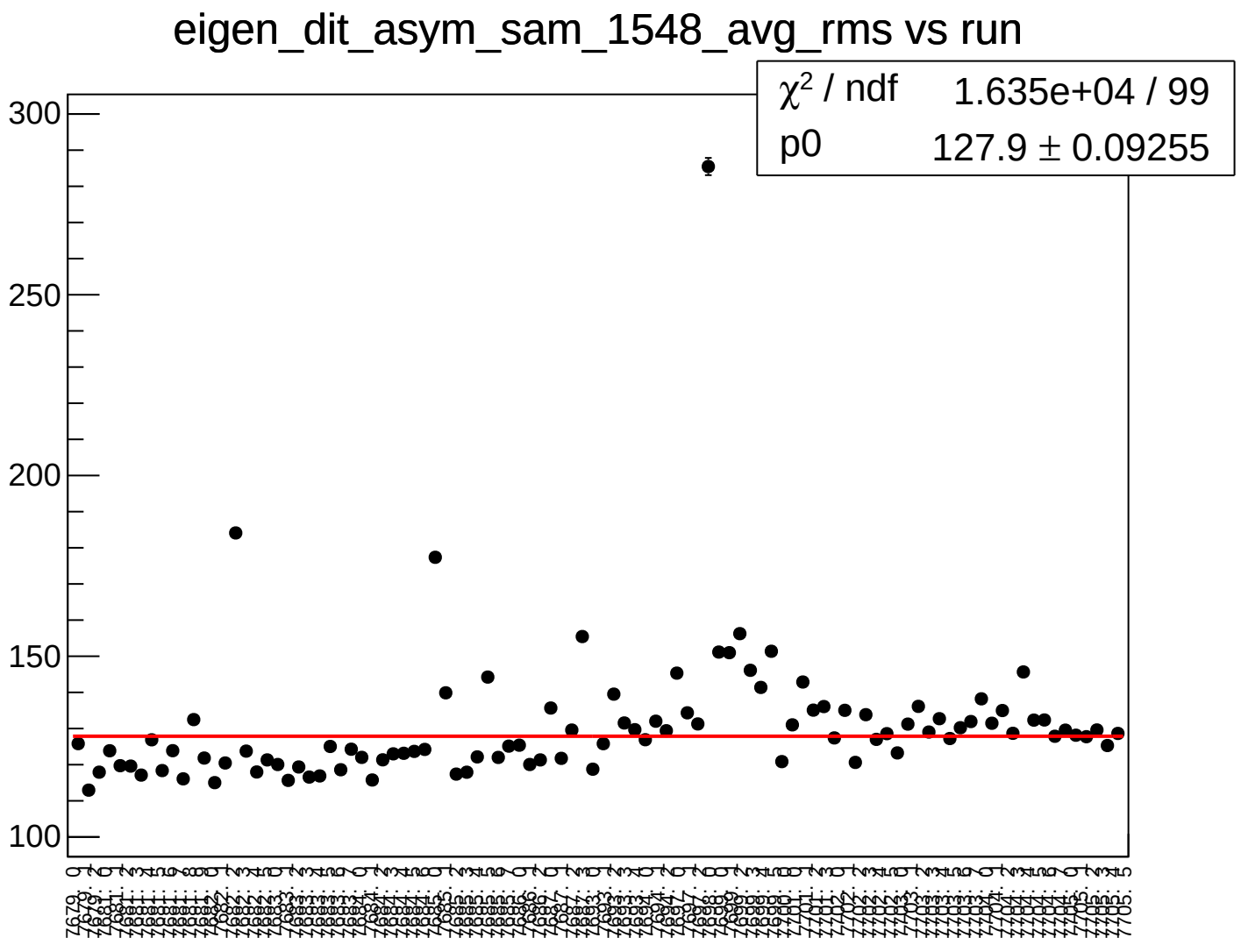

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 86.56 / 99
p0 205 ± 1665
pull
Entries 100
Mean −189.9
Std Dev 0

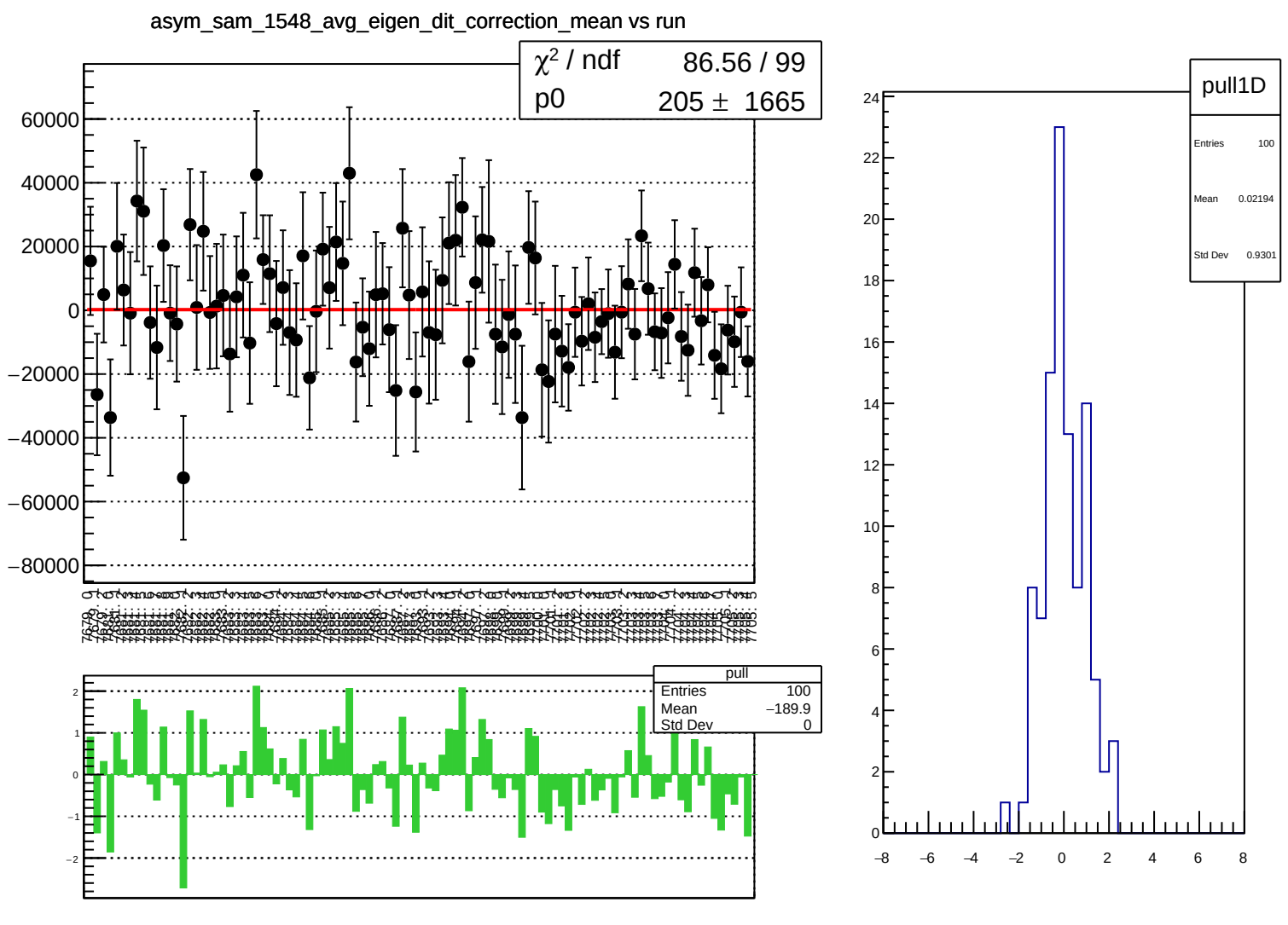

pull1D
Entries 100
Mean 0.02194
Std Dev 0.9301

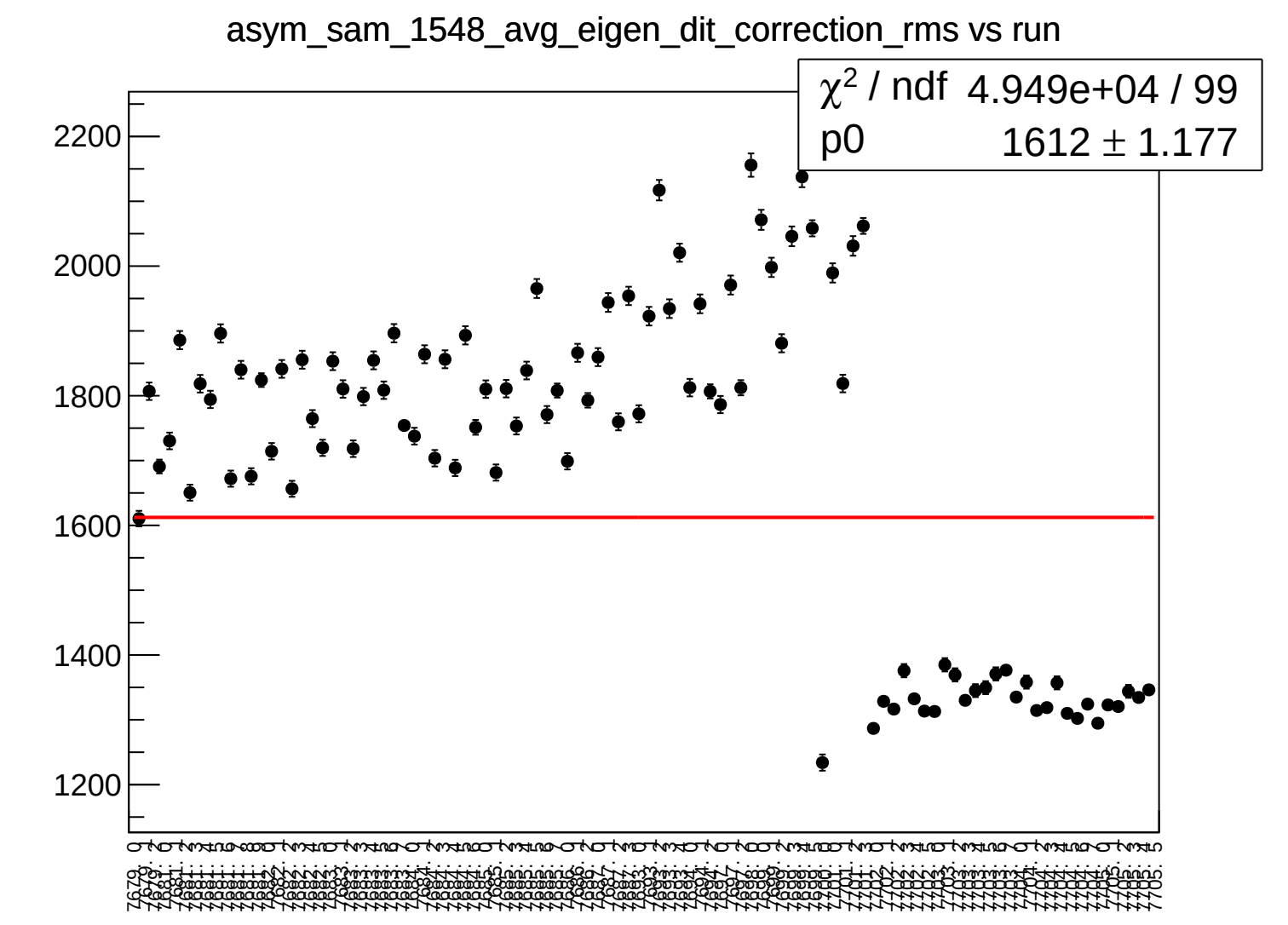

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 4.949e+04 / 99
p0 1612 ± 1.177
2200
2000
1800
1600
1400
1200

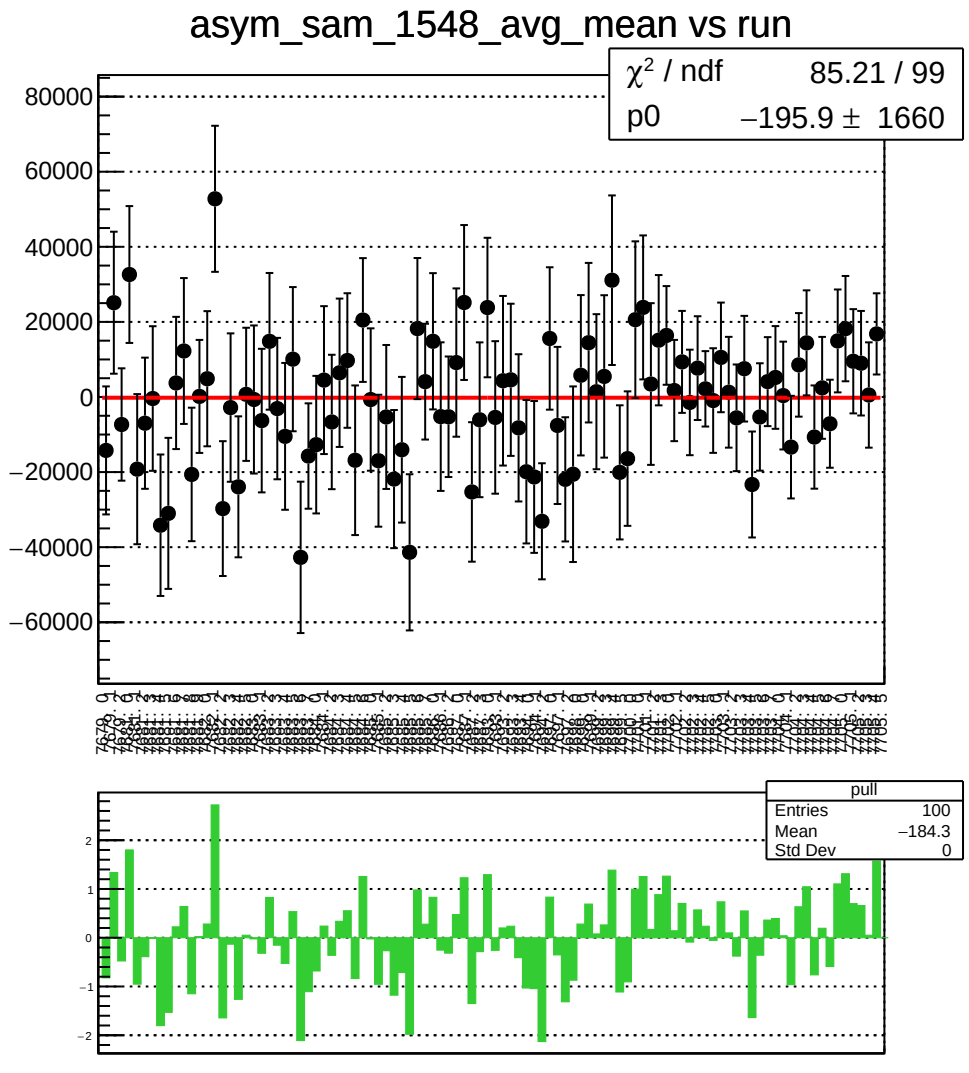

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 114.4 / 99
p0 −47.09 ± 130.9
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 270.3
Std Dev 0
2
1
0
−1
−2
−3

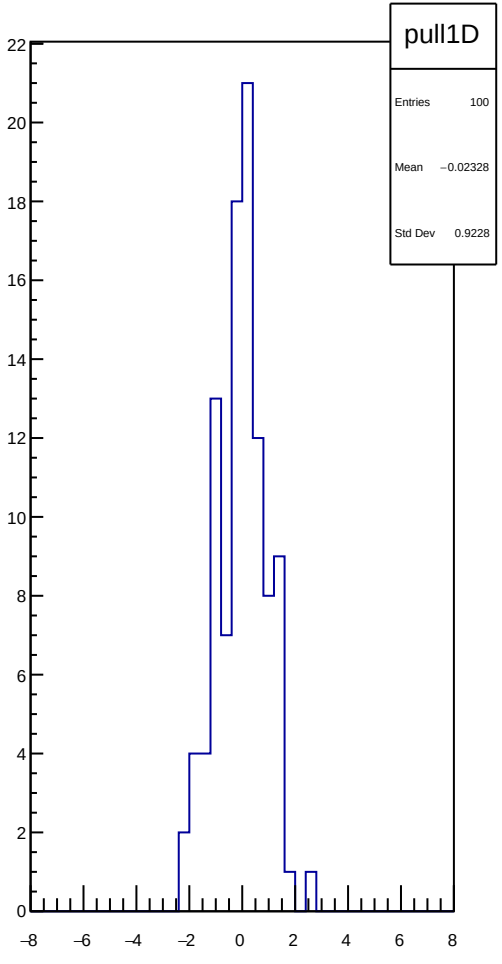

pull1D
Entries 100
Mean 0.00944
Std Dev 1.07
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

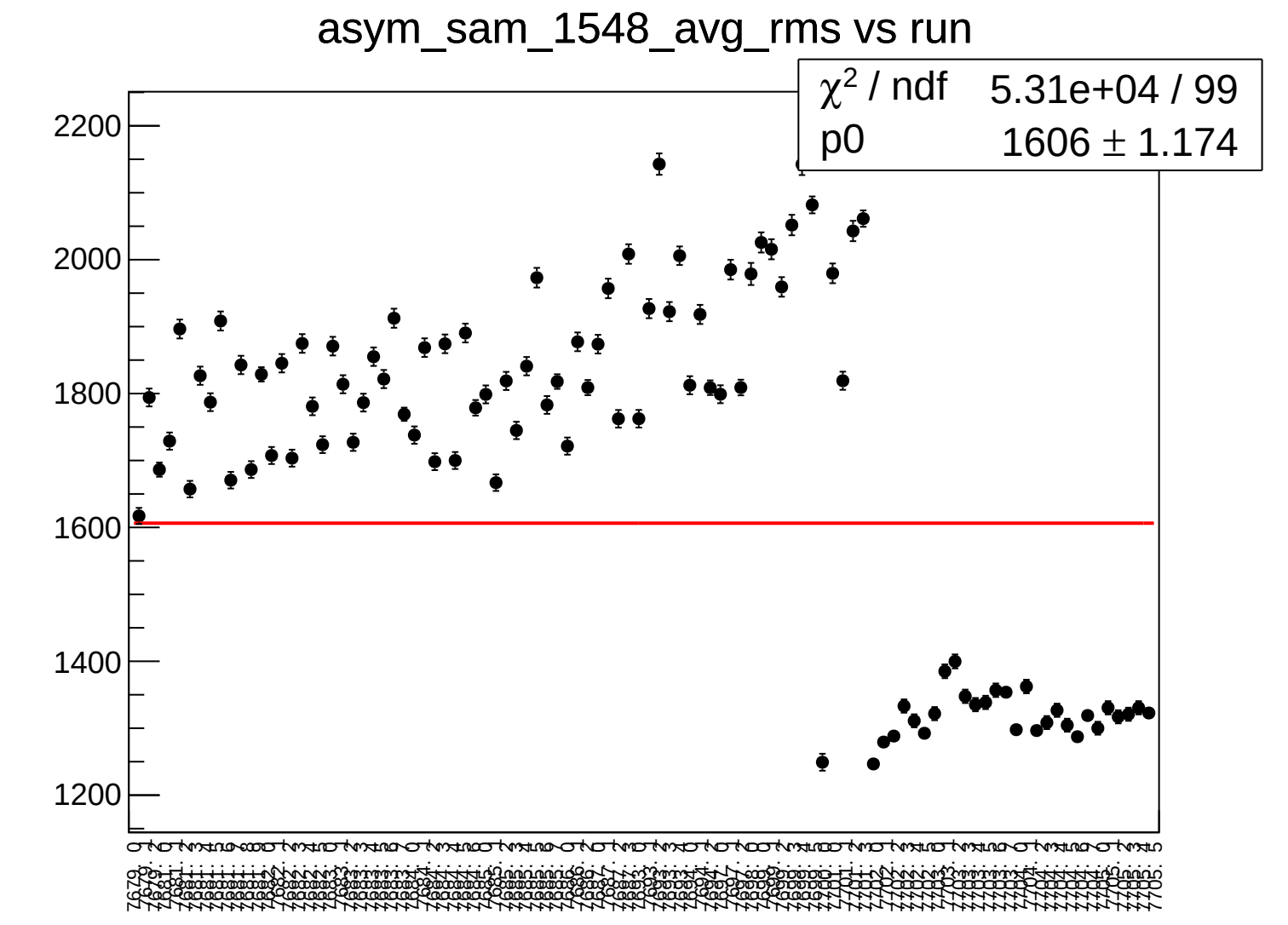

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 1.635e+04 / 99
p0 127.9 ± 0.09255
300
250
200
150
100

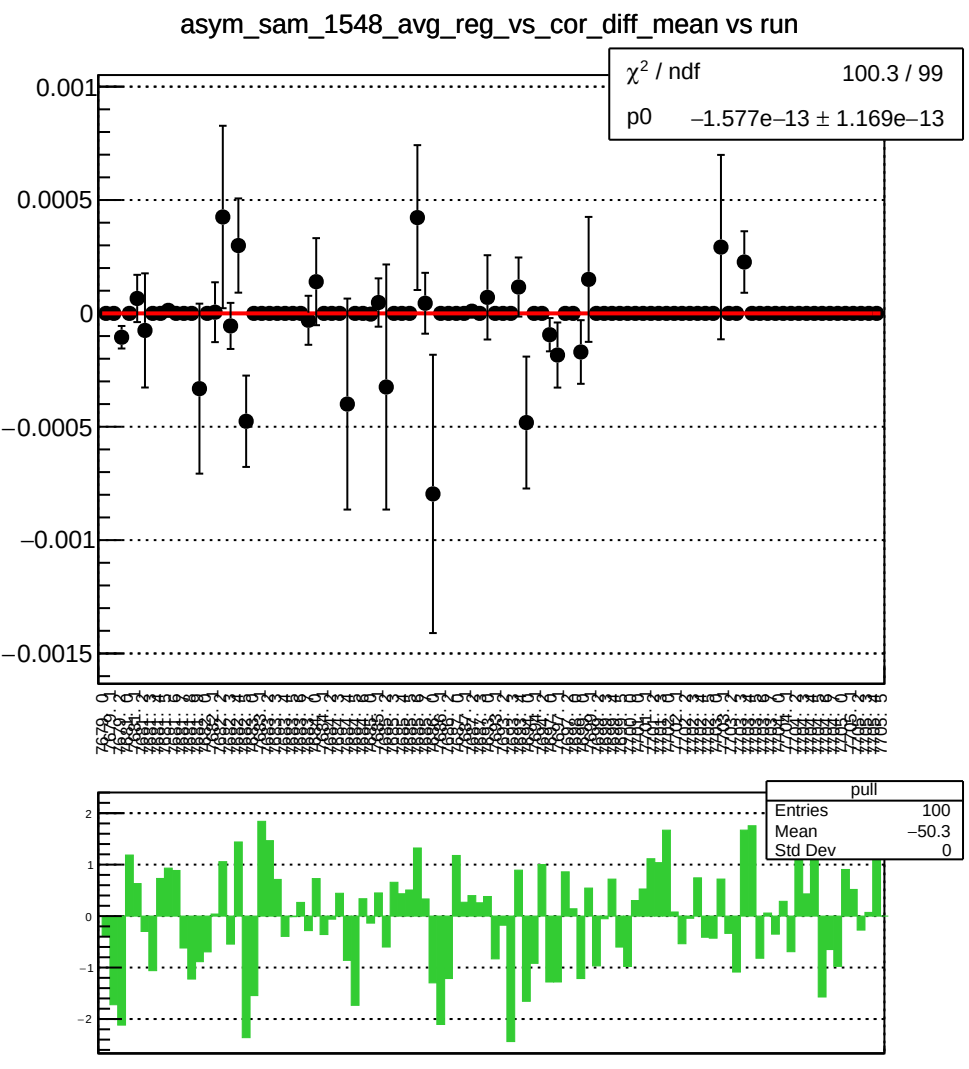

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 86.56 / 99
p0 205 ± 1665
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −189.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.02194
Std Dev 0.9301
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

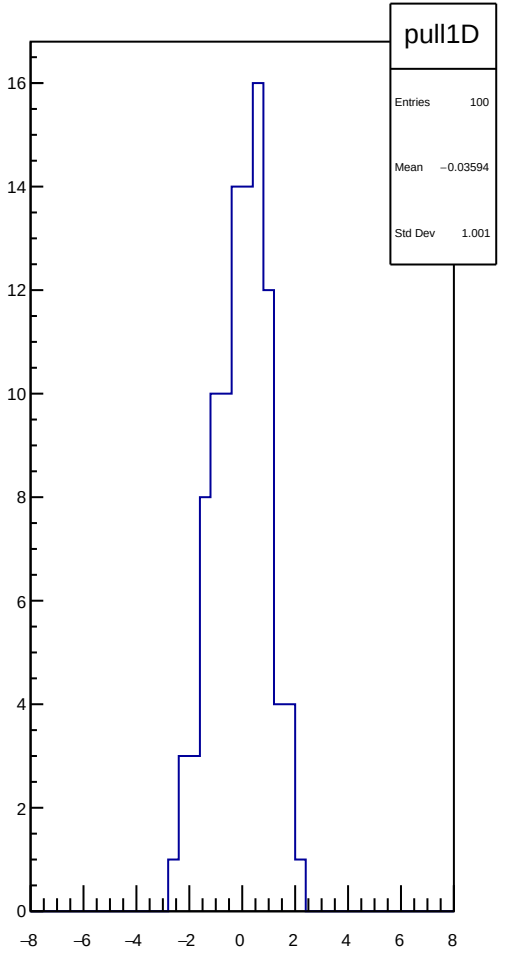

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 4.949e+04 / 99
p0 1612 ± 1.177
2200
2000
1800
1600
1400
1200

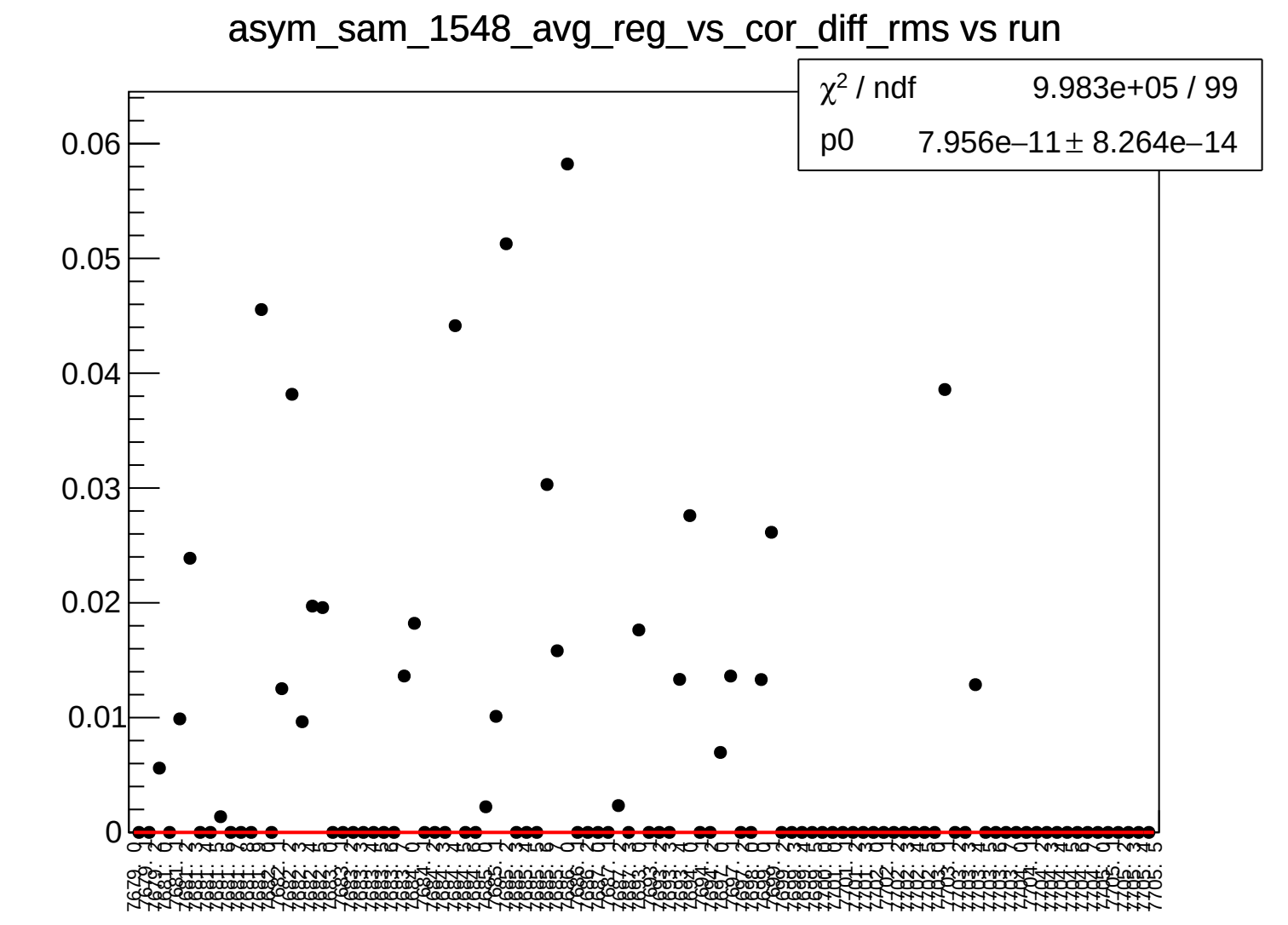

asym_sam_1548_avg_mean vs run
χ² / ndf 85.21 / 99
p0 −195.9 ± 1660
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −184.3
Std Dev 0
2
1
0
−1
−2

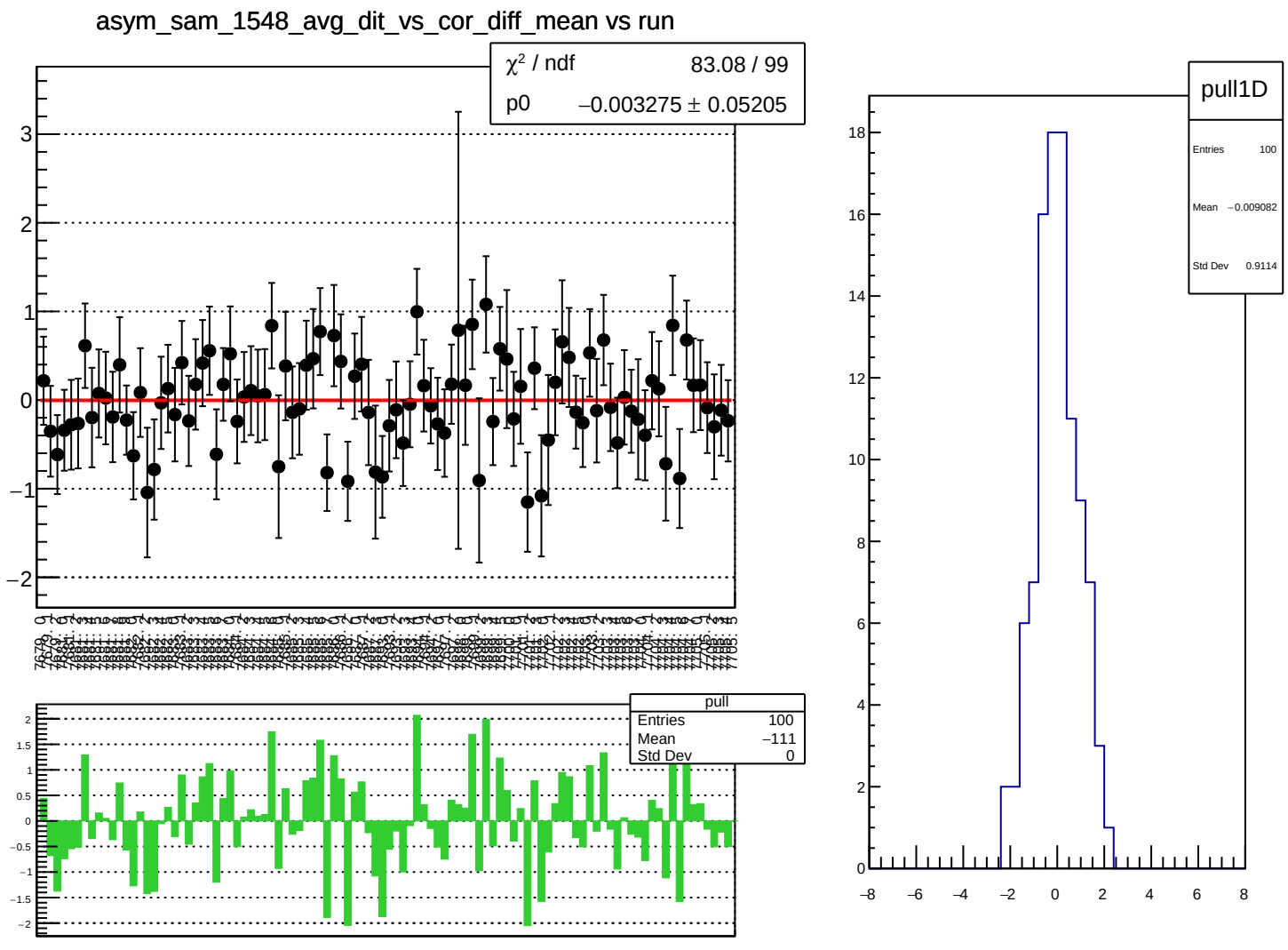

pull1D
Entries 100
Mean −0.02328
Std Dev 0.9228
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

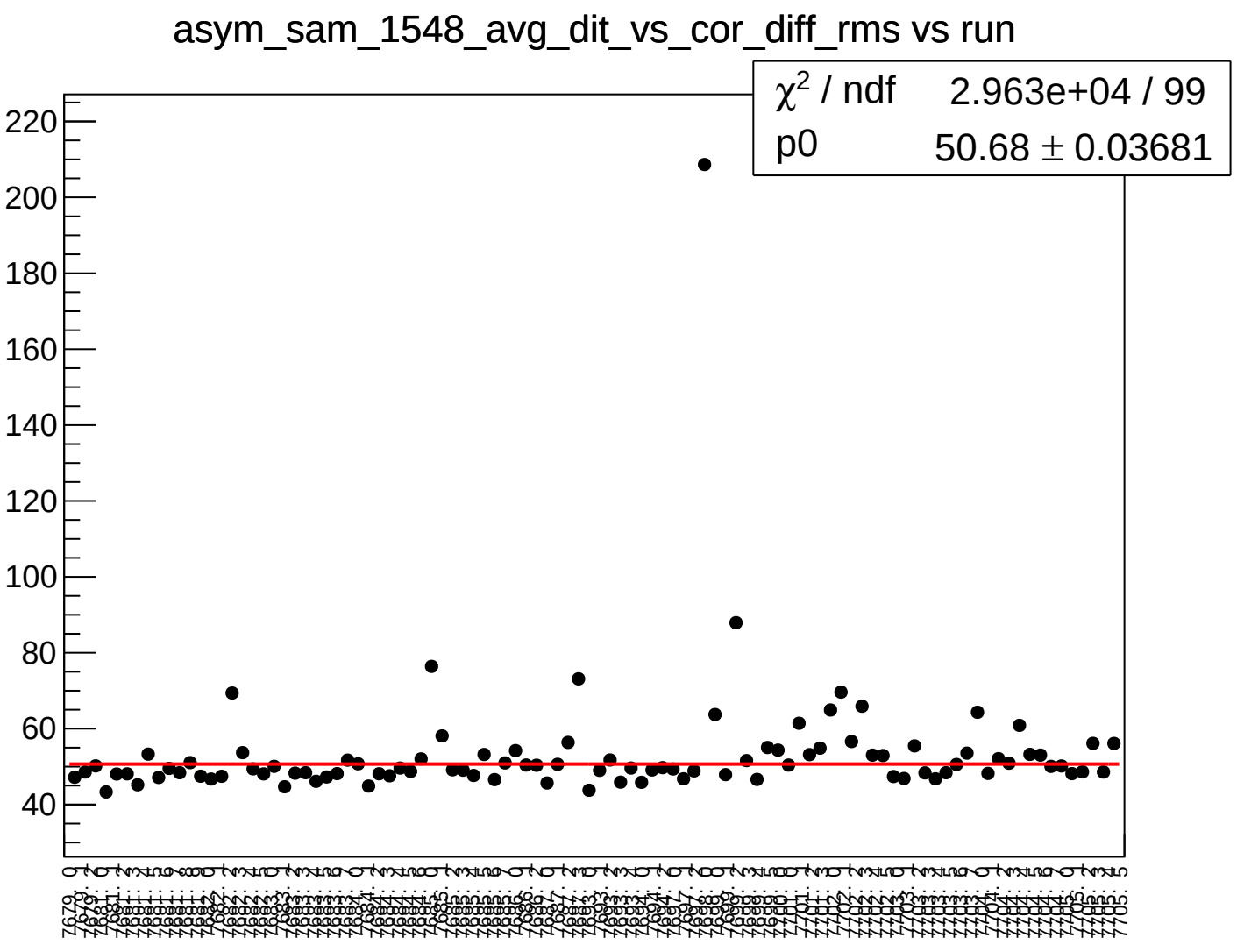

asym_sam_1548_avg_rms vs run
χ² / ndf 5.31e+04 / 99
p0 1606 ± 1.174
2200
2000
1800
1600
1400
1200

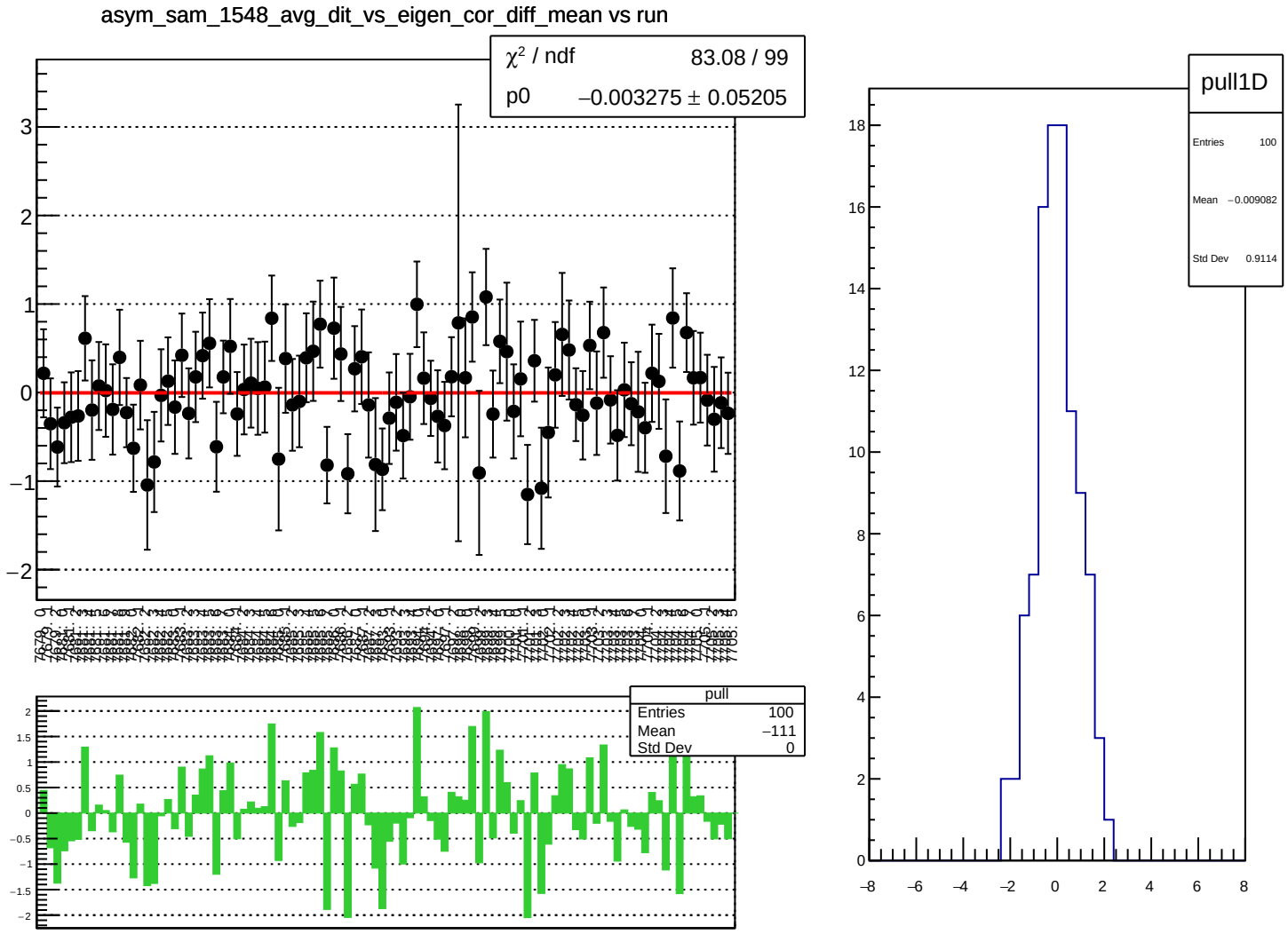

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 100.3 / 99
p0 −1.577e−13 ± 1.169e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 100
Mean −50.3
Std Dev 0
2
1
0
−1
−2

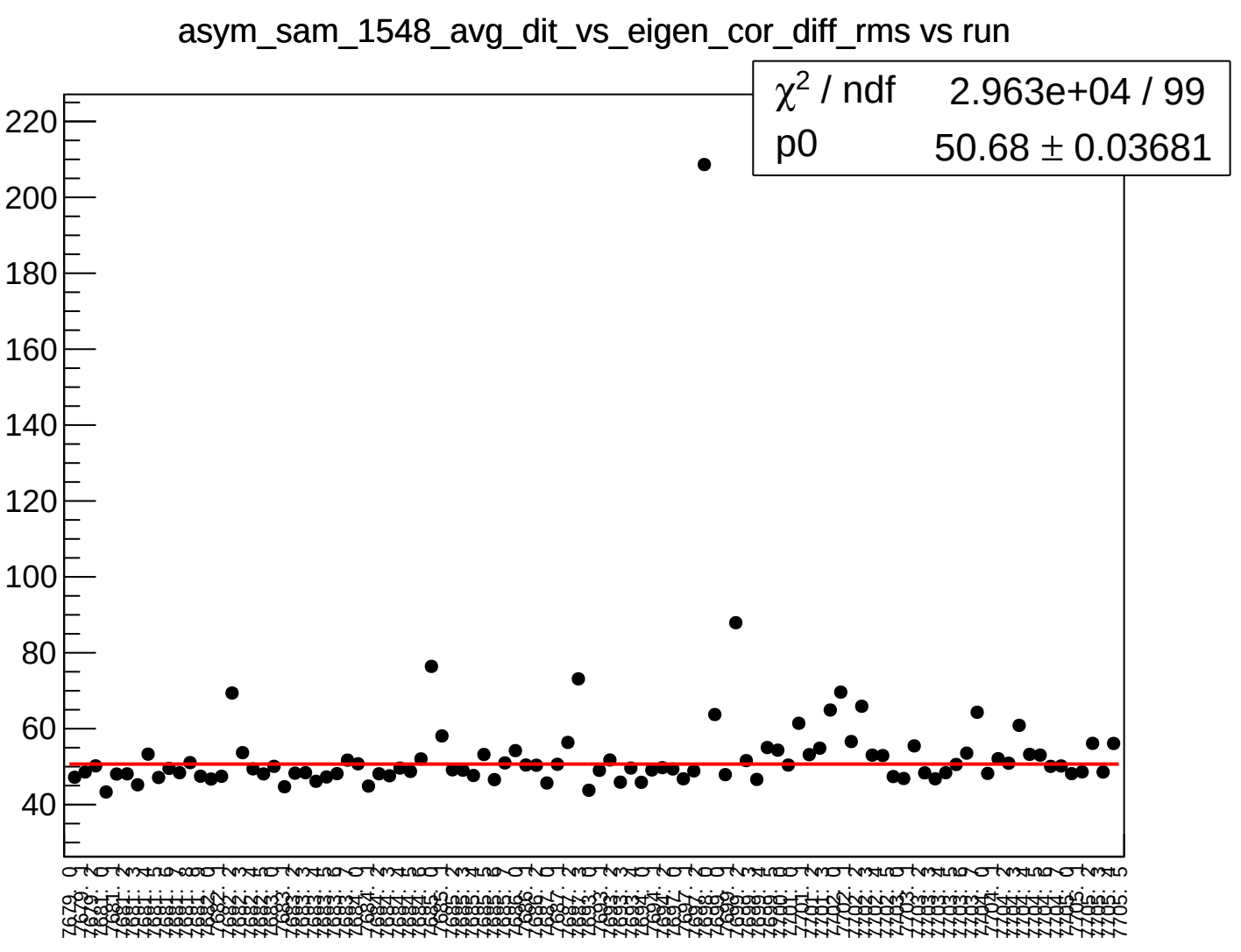

pull1D
Entries 100
Mean −0.03594
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

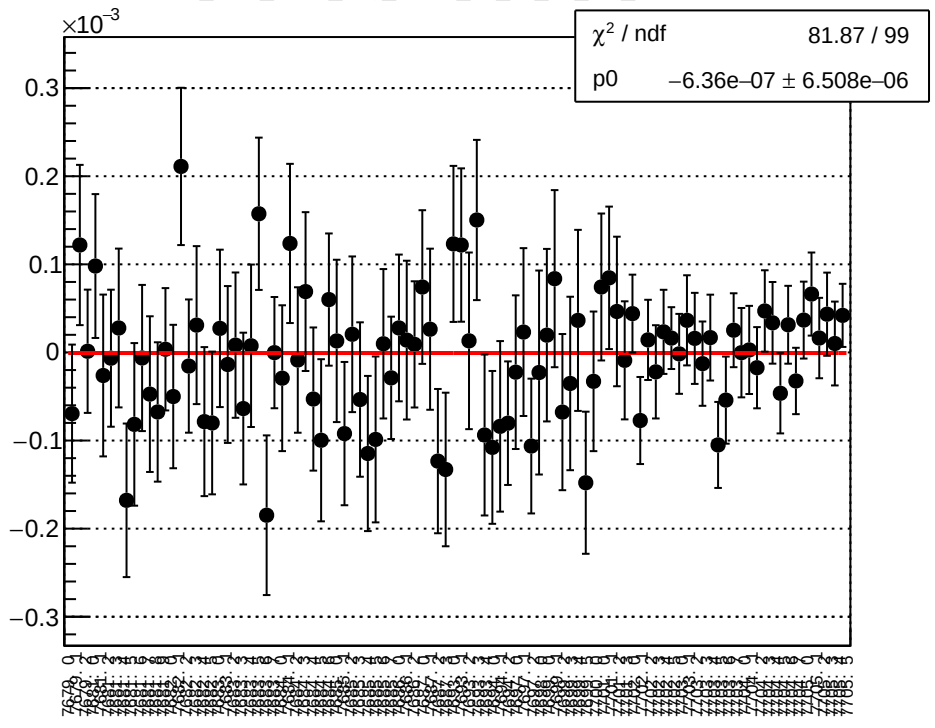

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.983e+05 / 99
p0 7.956e−11 ± 8.264e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

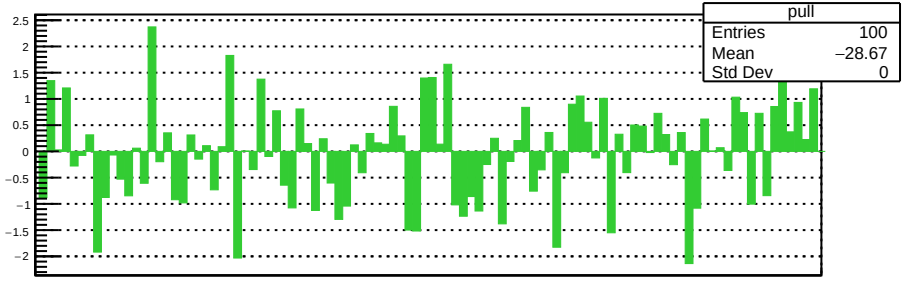

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.08 / 99
p0 −0.003275 ± 0.05205
pull
Entries 100
Mean −111
Std Dev 0
pull1D
Entries 100
Mean −0.009082
Std Dev 0.9114

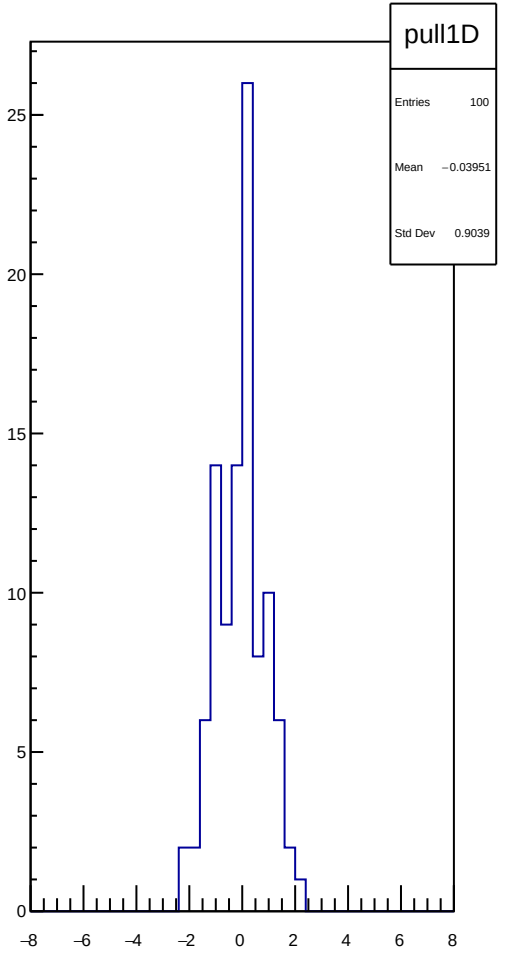

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.963e+04 / 99
p0 50.68 ± 0.03681
220
200
180
160
140
120
100
80
60
40

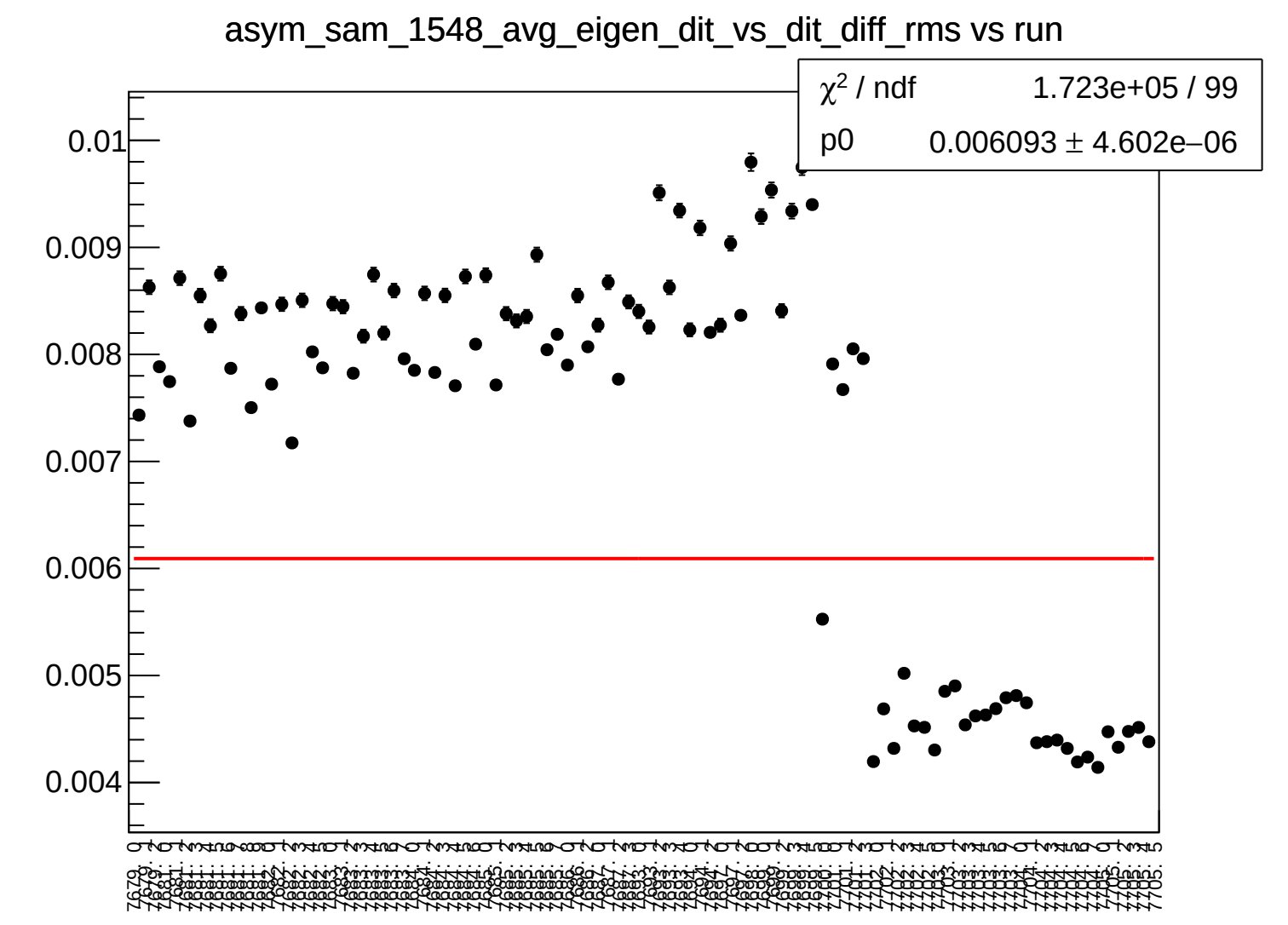

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.08 / 99
p0 −0.003275 ± 0.05205
pull
Entries 100
Mean −111
Std Dev 0
pull1D
Entries 100
Mean −0.009082
Std Dev 0.9114

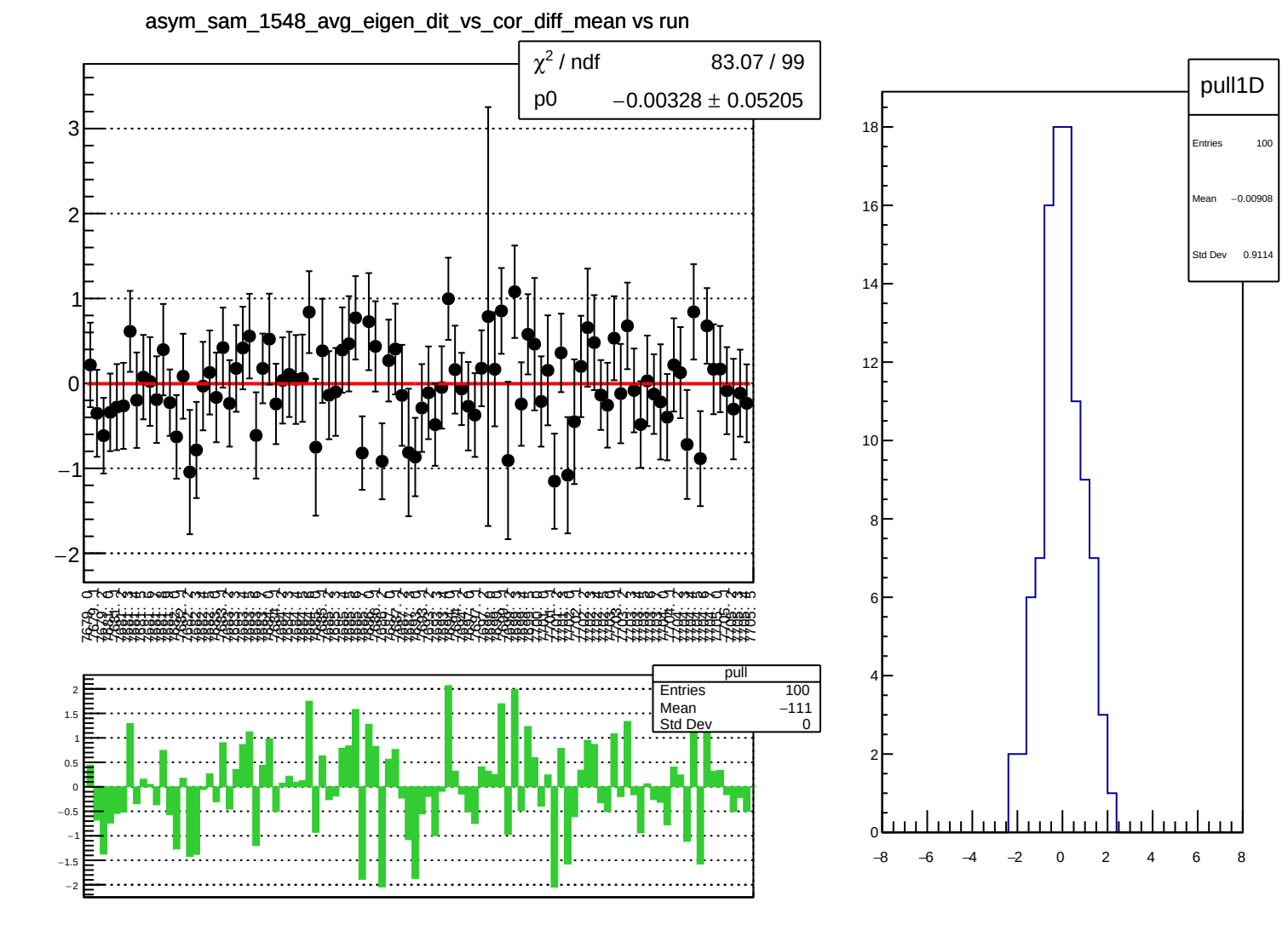

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.963e+04 / 99
p0 50.68 ± 0.03681
220
200
180
160
140
120
100
80
60
40

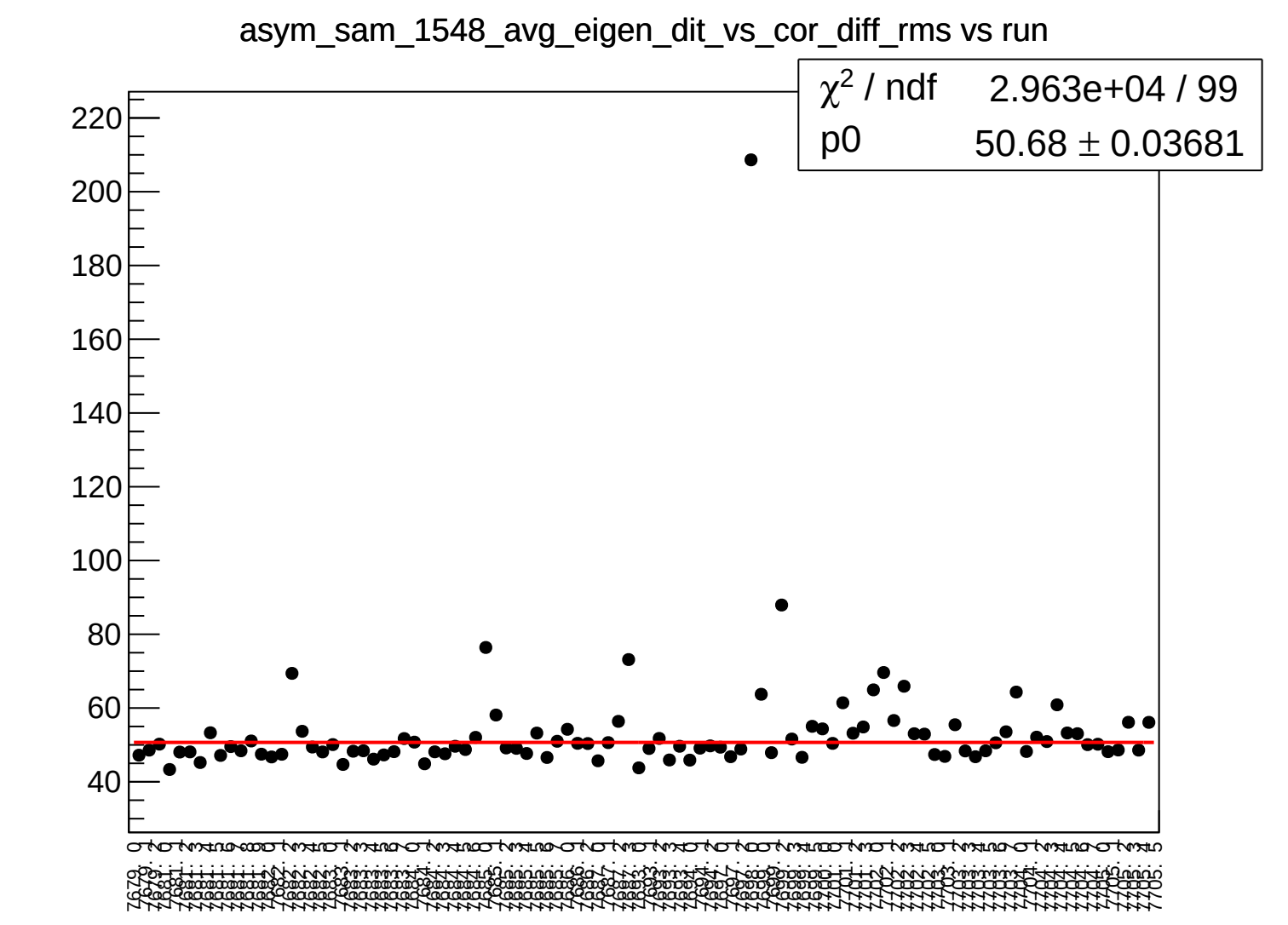

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.87 / 99
p0 −6.36e−07 ± 6.508e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

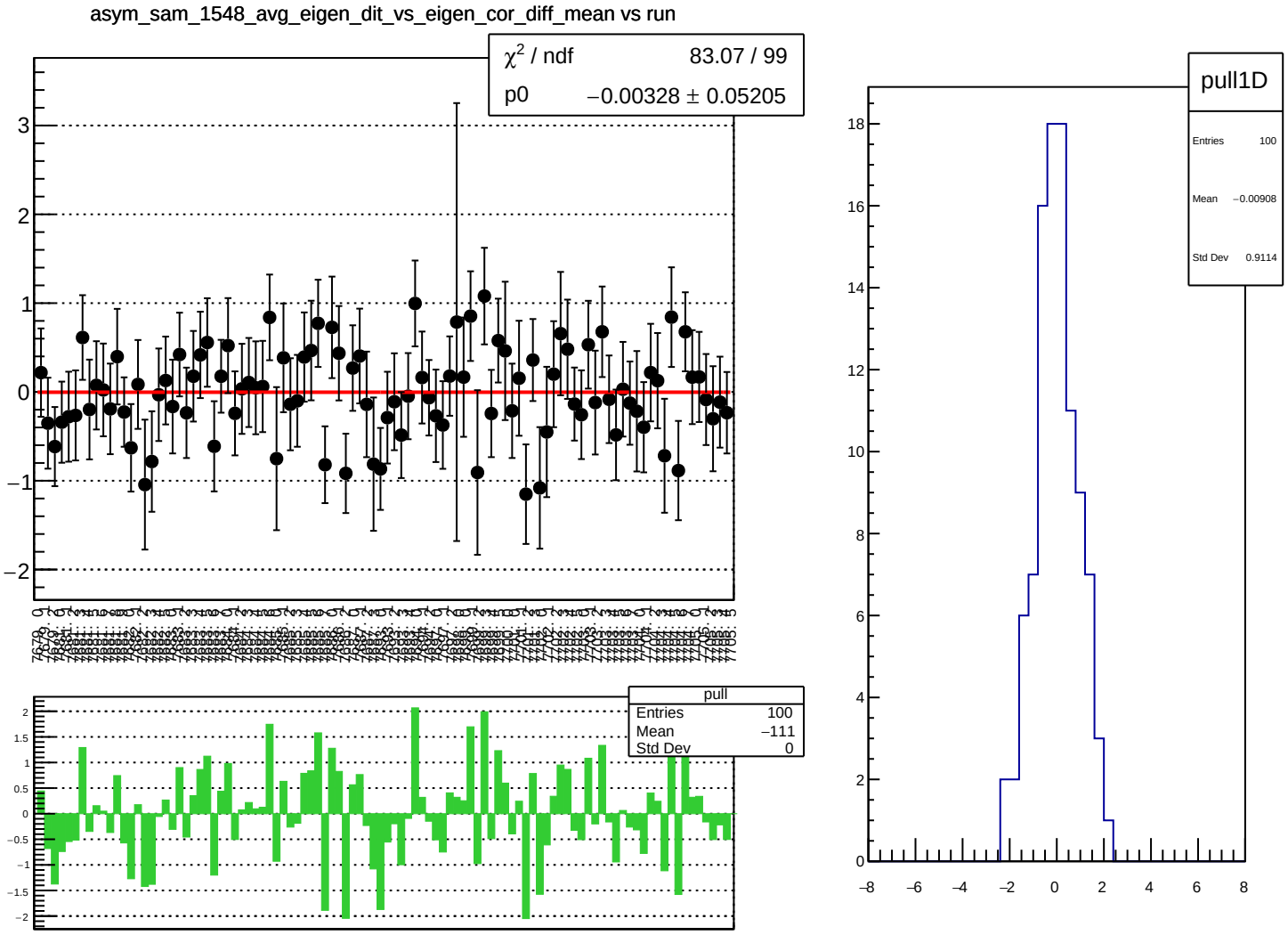

pull
Entries 100
Mean −28.67
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

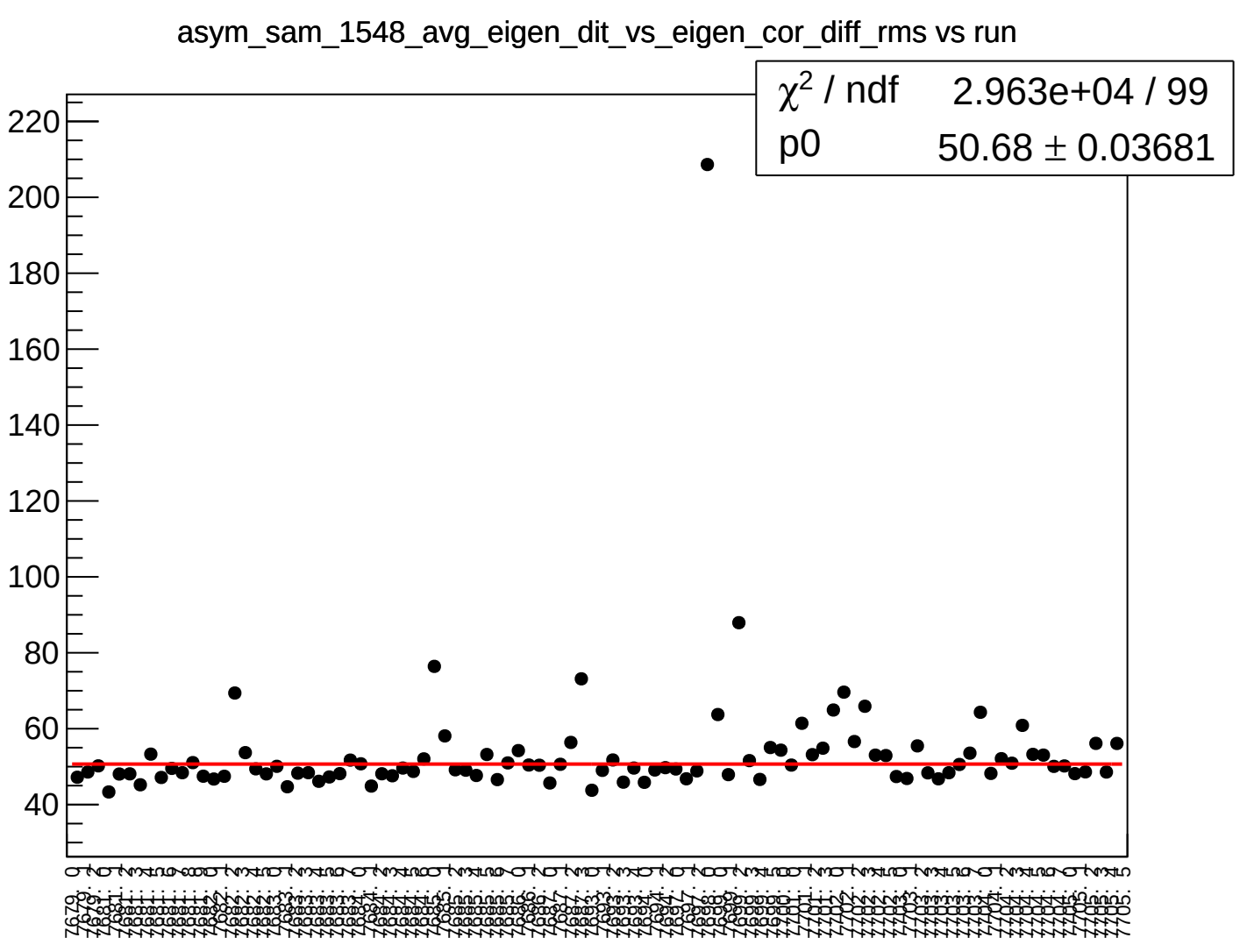

pull1D
Entries 100
Mean −0.03951
Std Dev 0.9039
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

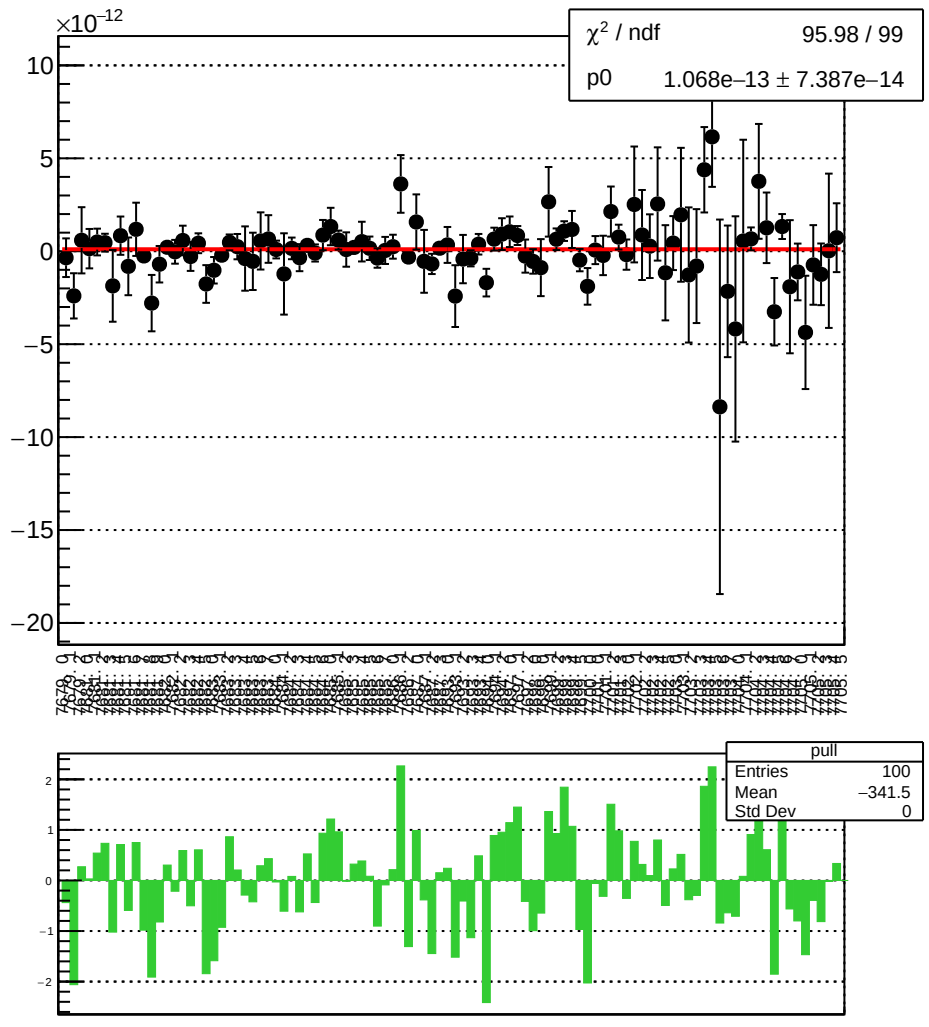

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.723e+05 / 99
p0 0.006093 ± 4.602e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004

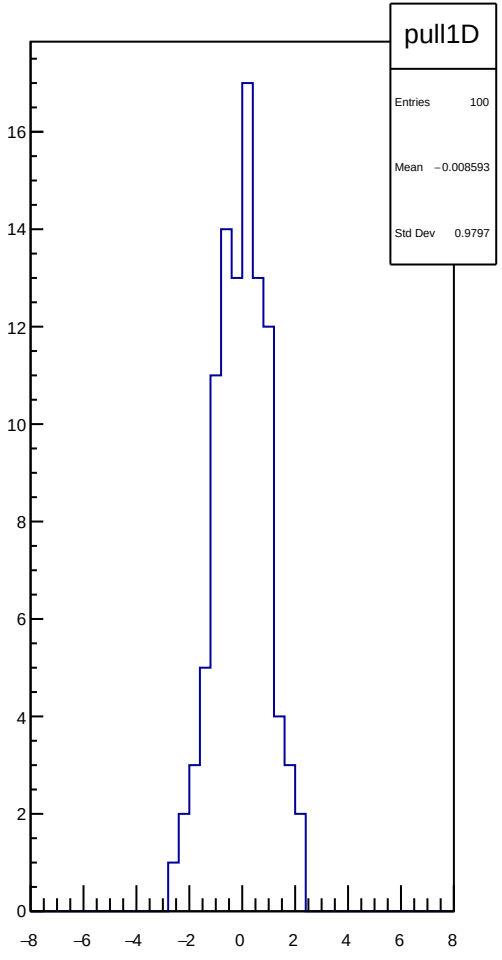

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.07 / 99
p0 −0.00328 ± 0.05205
pull
Entries 100
Mean −111
Std Dev 0
pull1D
Entries 100
Mean −0.00908
Std Dev 0.9114

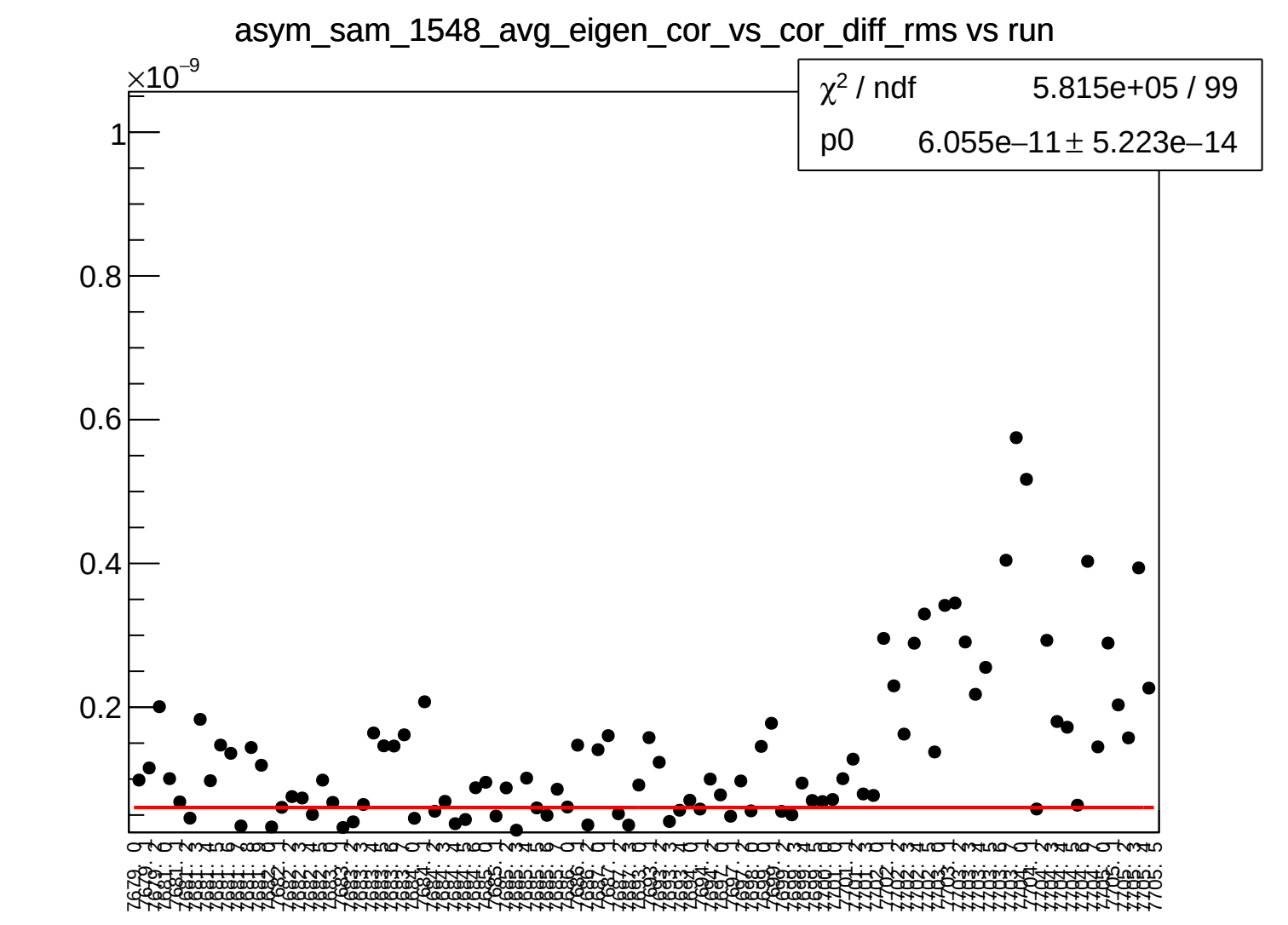

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.963e+04 / 99
p0 50.68 ± 0.03681
220
200
180
160
140
120
100
80
60
40

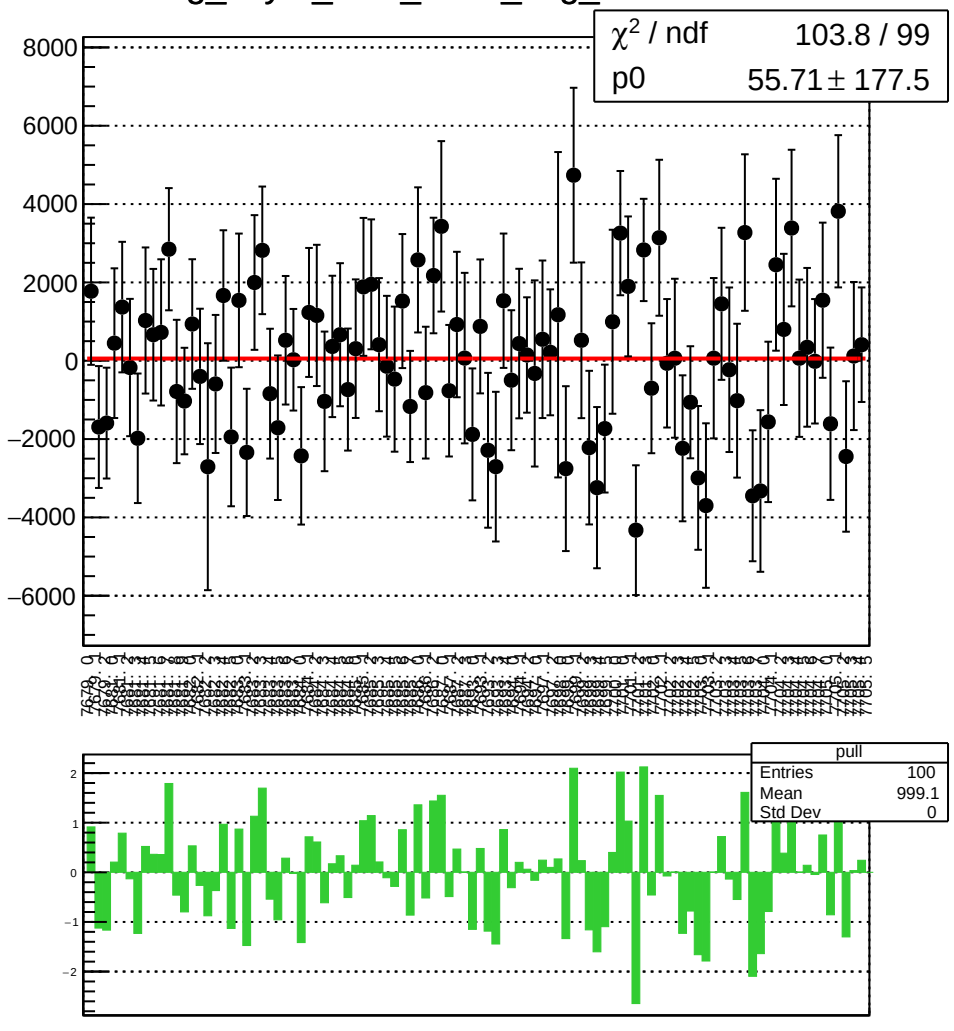

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.07 / 99
p0 −0.00328 ± 0.05205
pull
Entries 100
Mean −111
Std Dev 0
pull1D
Entries 100
Mean −0.00908
Std Dev 0.9114

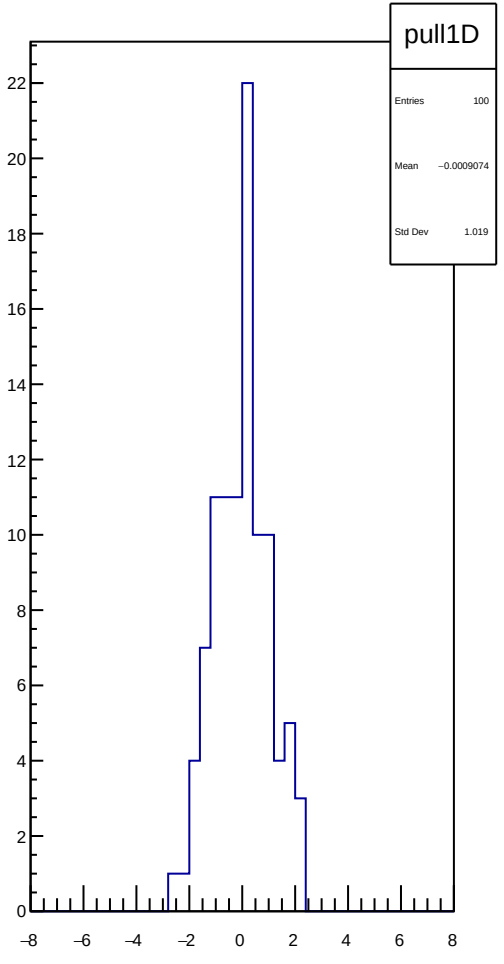

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.963e+04 / 99
p0 50.68 ± 0.03681
220
200
180
160
140
120
100
80
60
40

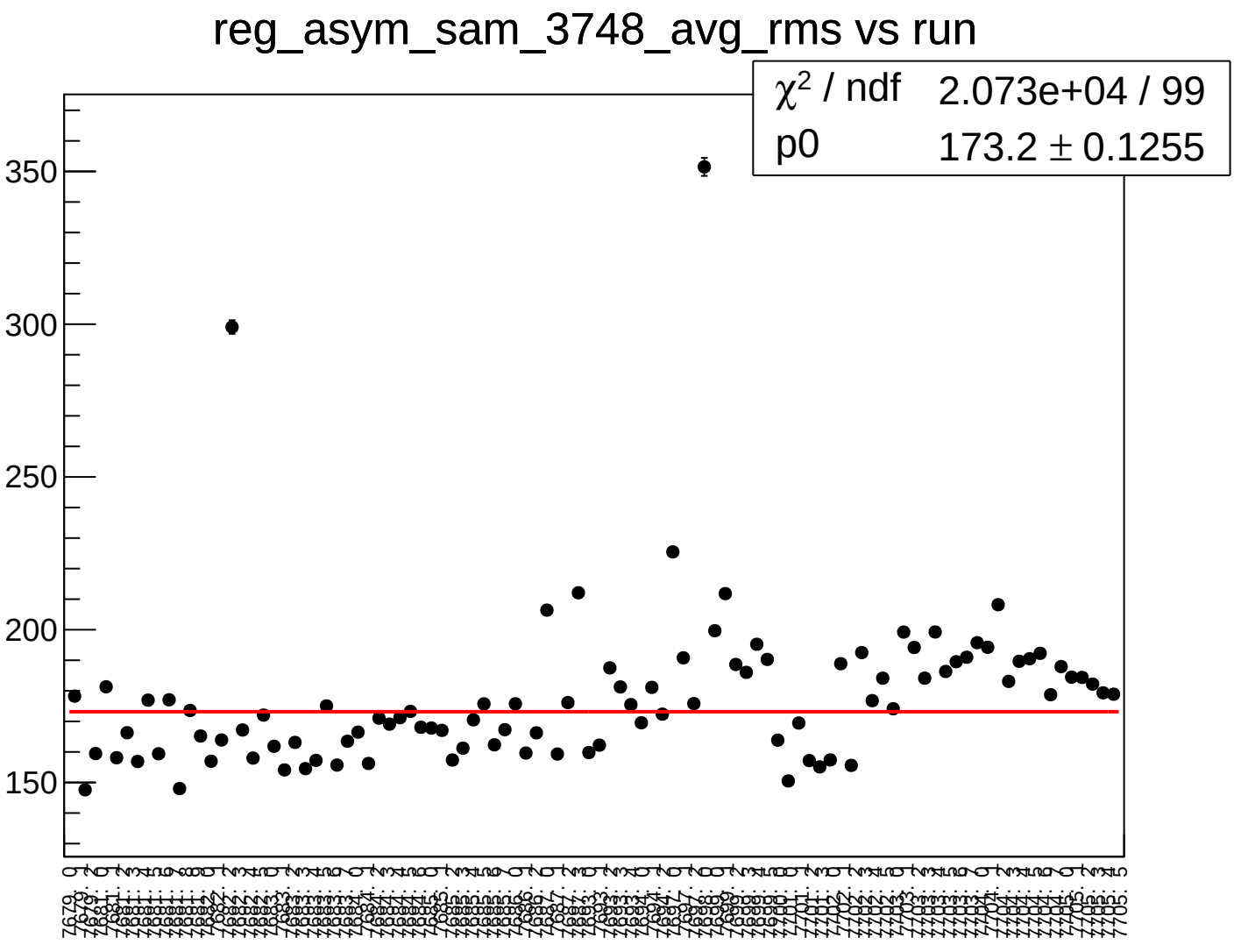

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.98 / 99
p0 1.068e−13 ± 7.387e−14
pull
Entries 100
Mean −341.5
Std Dev 0

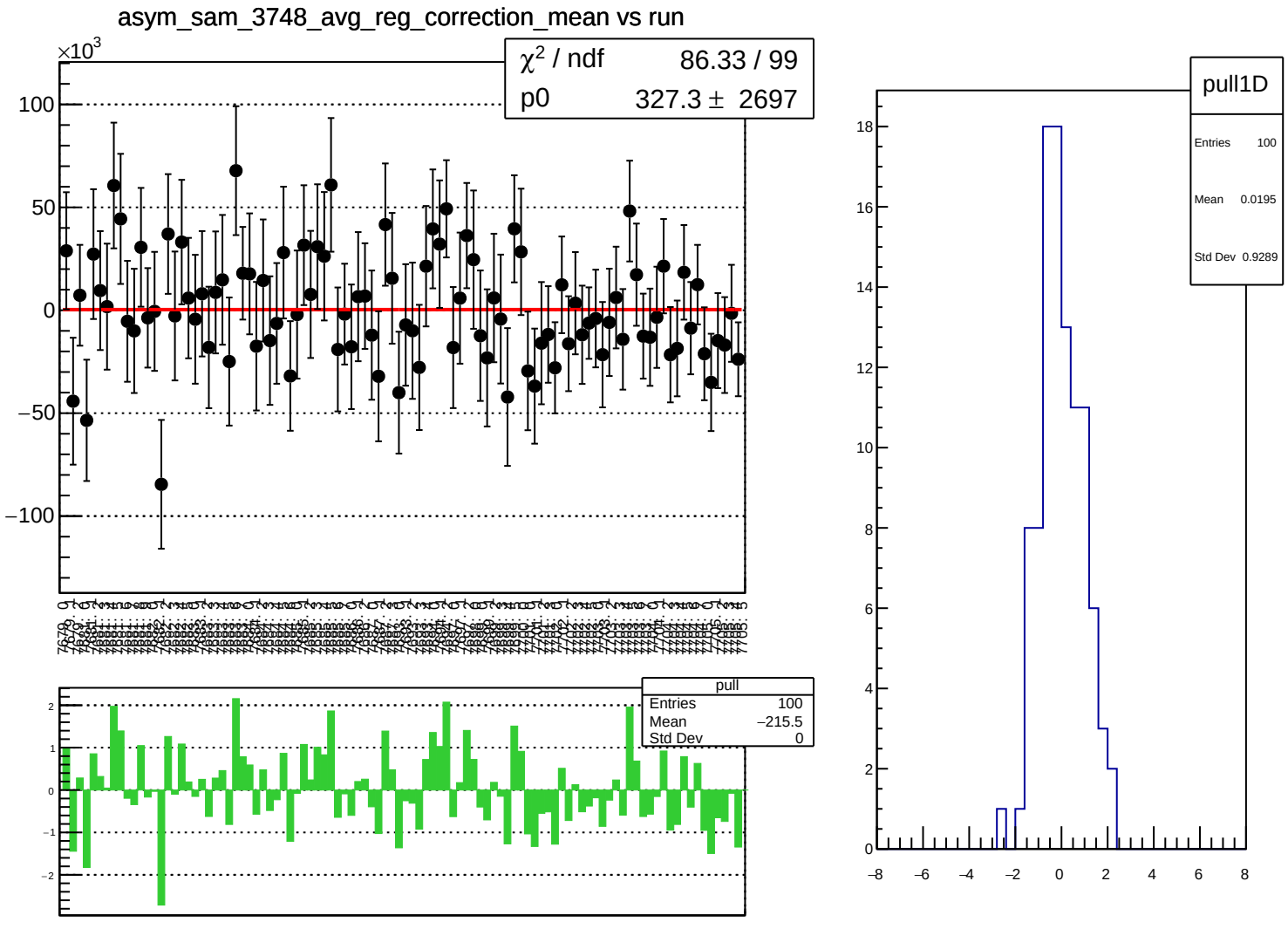

pull1D
Entries 100
Mean −0.008593
Std Dev 0.9797

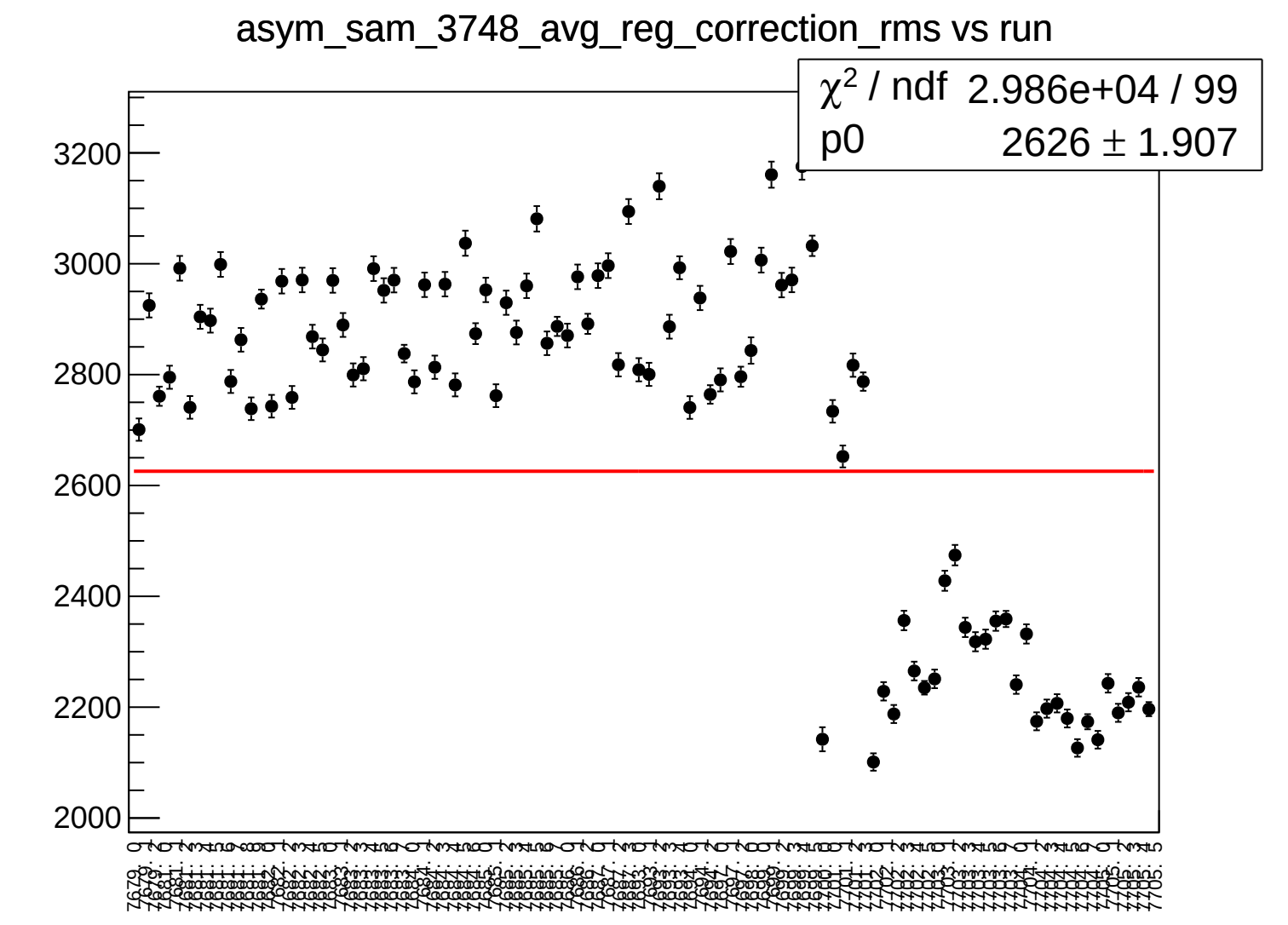

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.815e+05 / 99
p0 6.055e−11 ± 5.223e−14
1
0.8
0.6
0.4
0.2

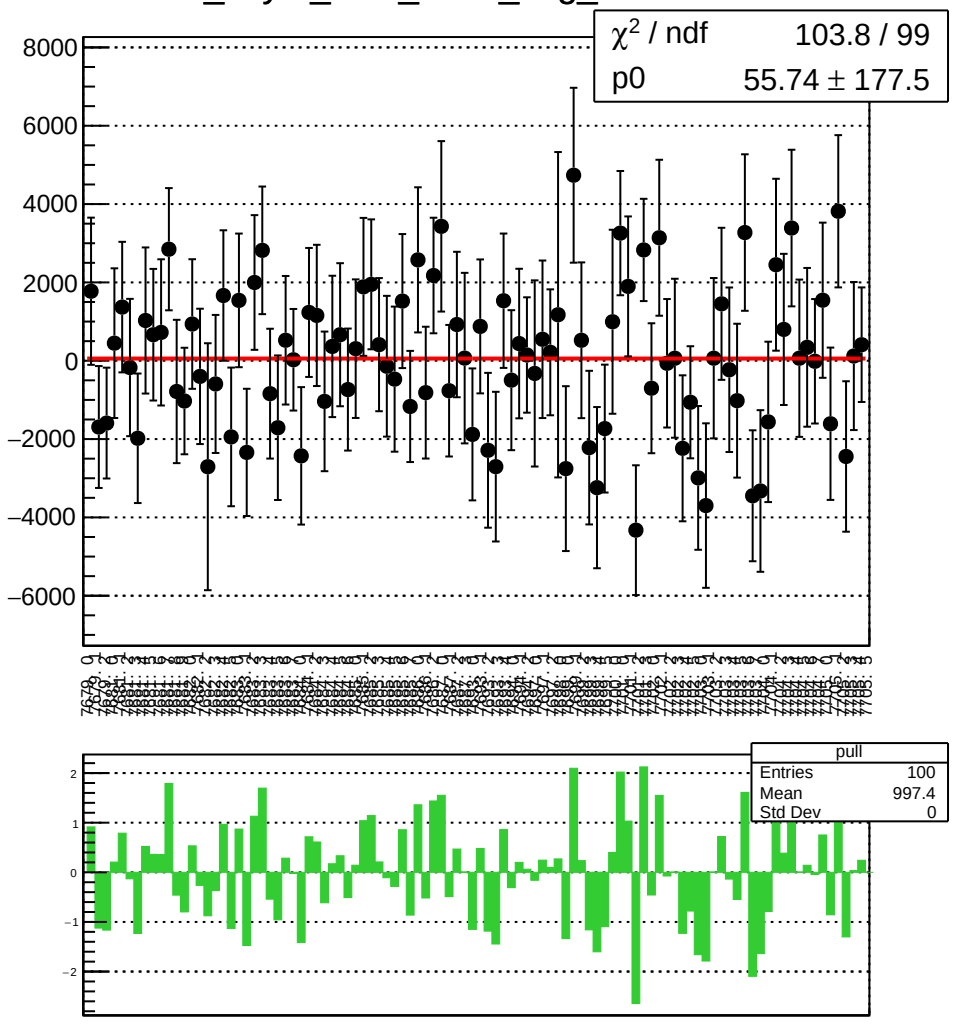

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 103.8 / 99
p0 55.71 ± 177.5
pull
Entries 100
Mean 999.1
Std Dev 0

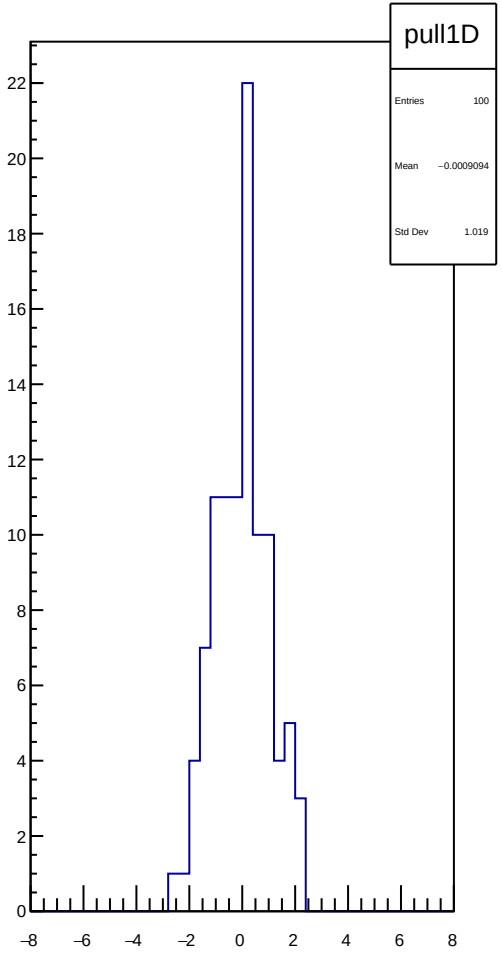

pull1D
Entries 100
Mean −0.0009074
Std Dev 1.019

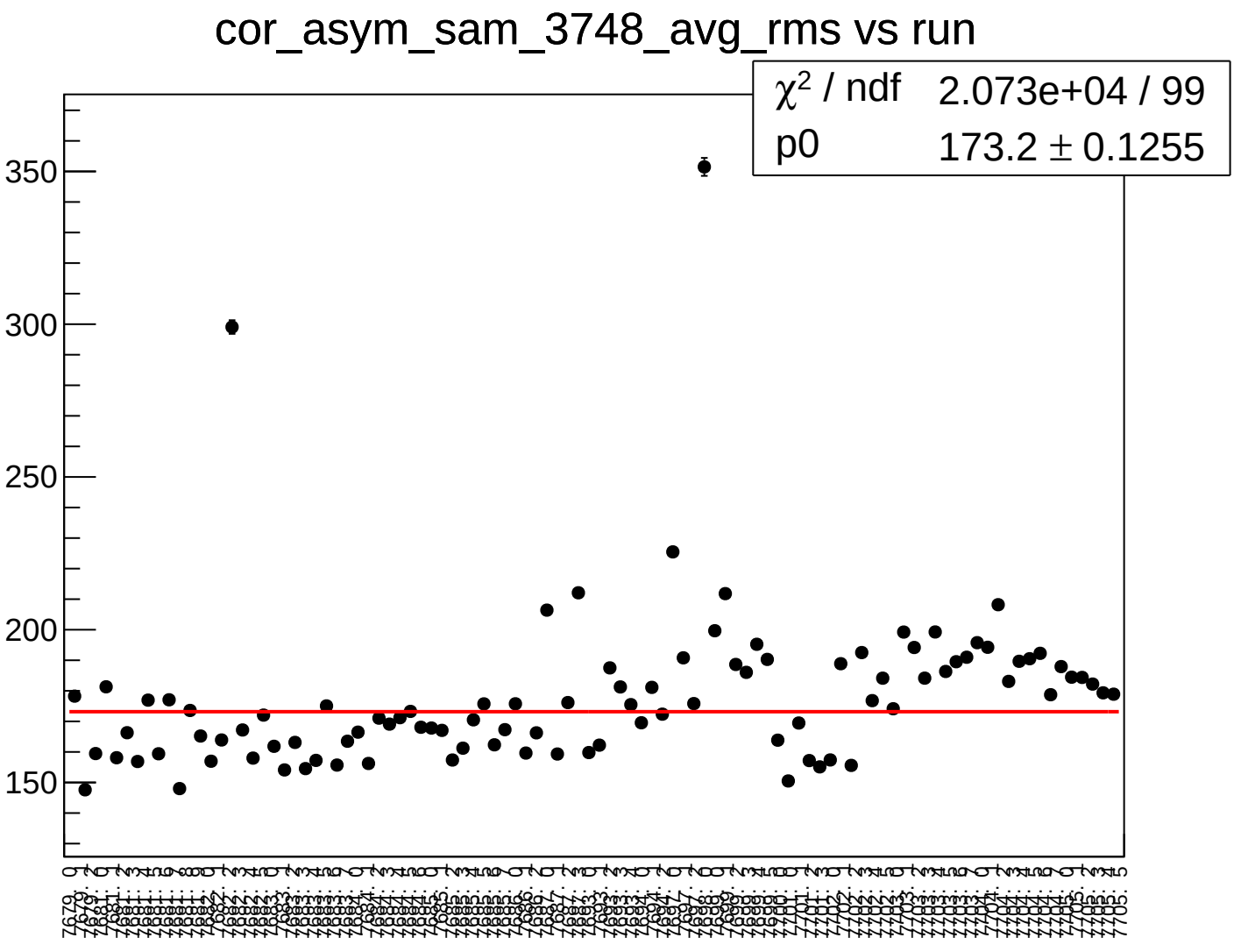

reg_asym_sam_3748_avg_rms vs run
χ^2 / ndf 2.073e+04 / 99
p0 173.2 ± 0.1255
350
300
250
200
150

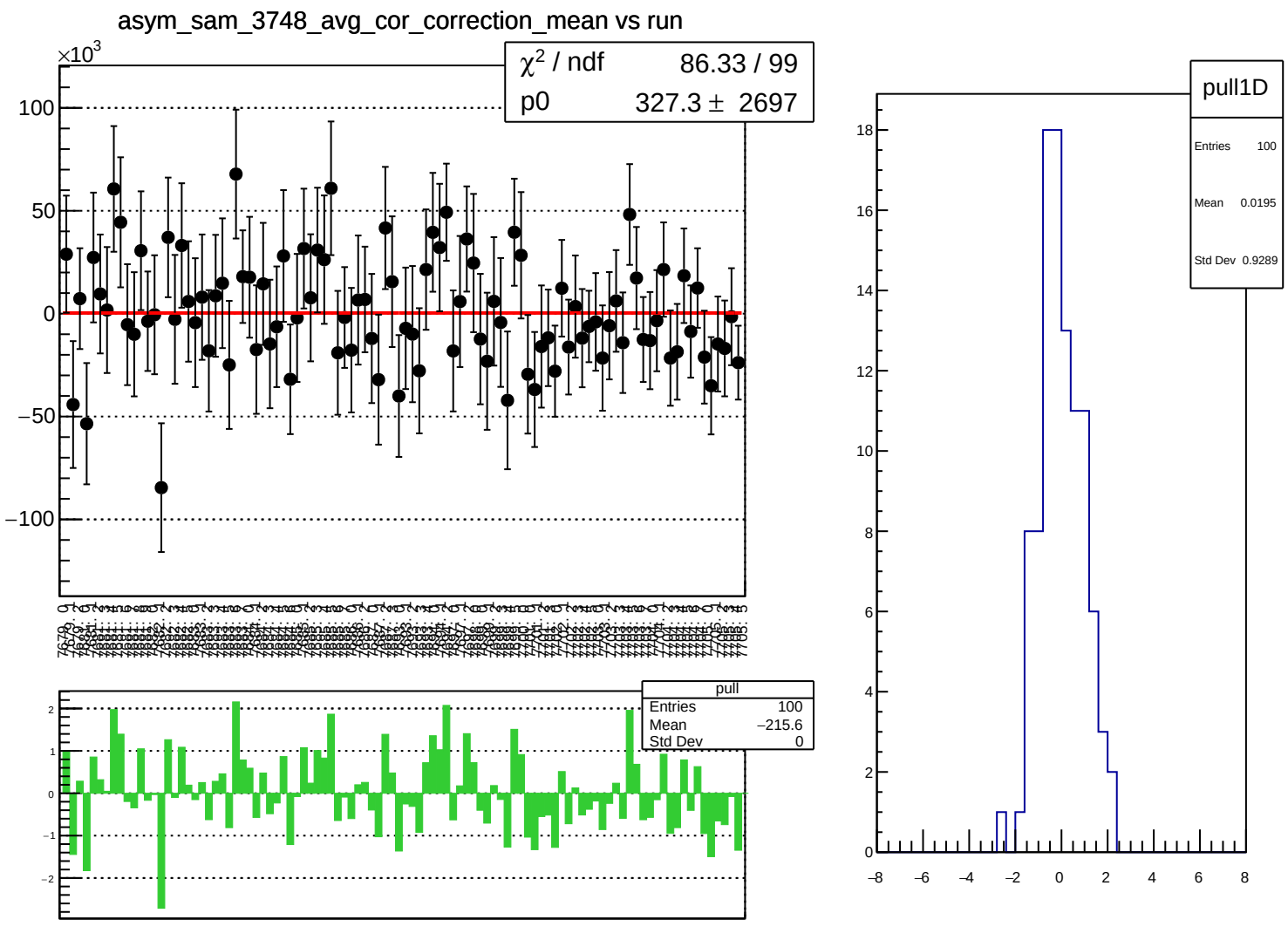

asym_sam_3748_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 86.33 / 99
p0 327.3 ± 2697
100
50
0
−50
−100
pull
Entries 100
Mean −215.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.0195
Std Dev 0.9289
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

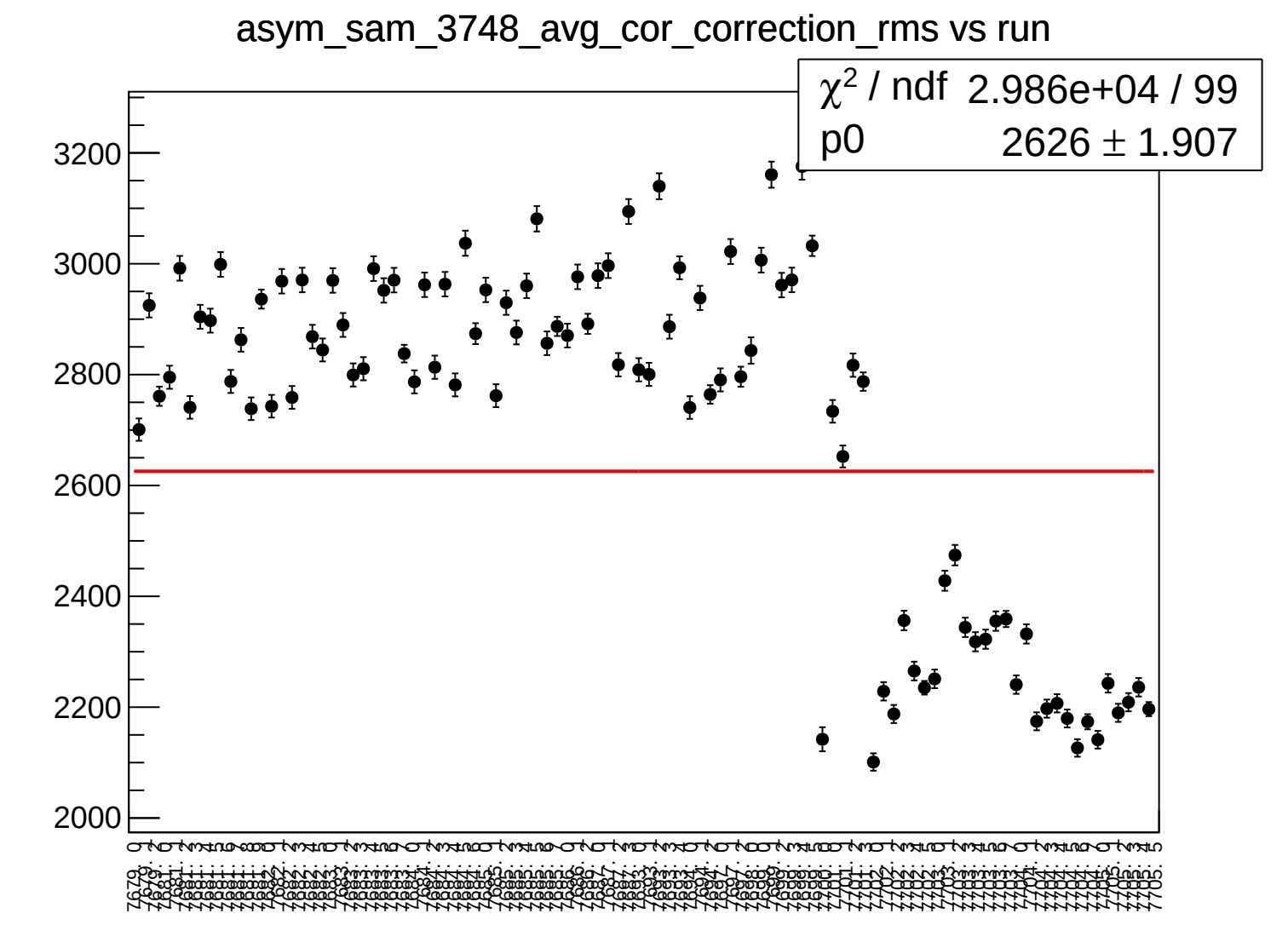

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 2.986e+04 / 99
p0 2626 ± 1.907
3200
3000
2800
2600
2400
2200
2000

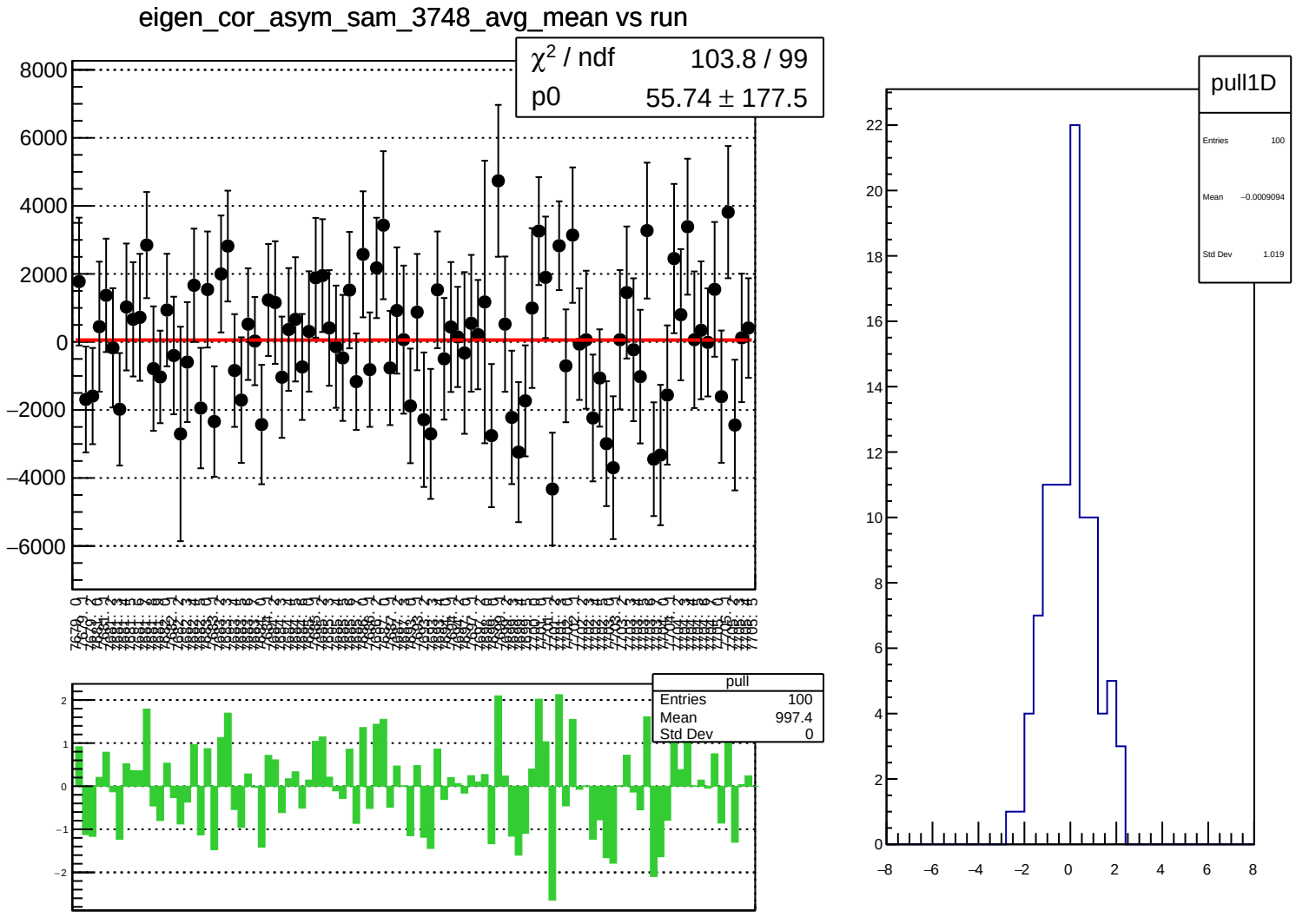

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 103.8 / 99
p0 55.74 ± 177.5
pull
Entries 100
Mean 997.4
Std Dev 0

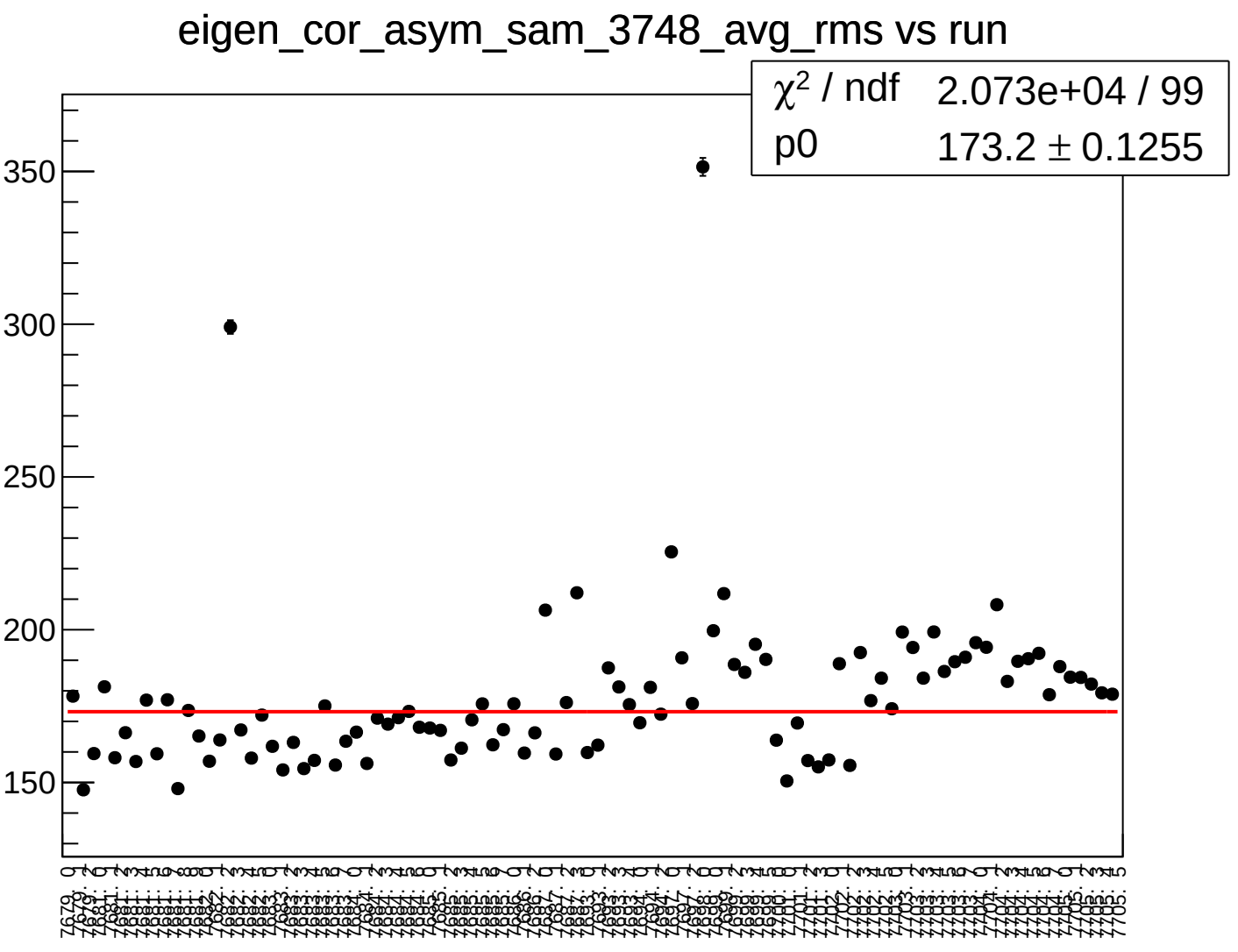

pull1D
Entries 100
Mean −0.0009094
Std Dev 1.019

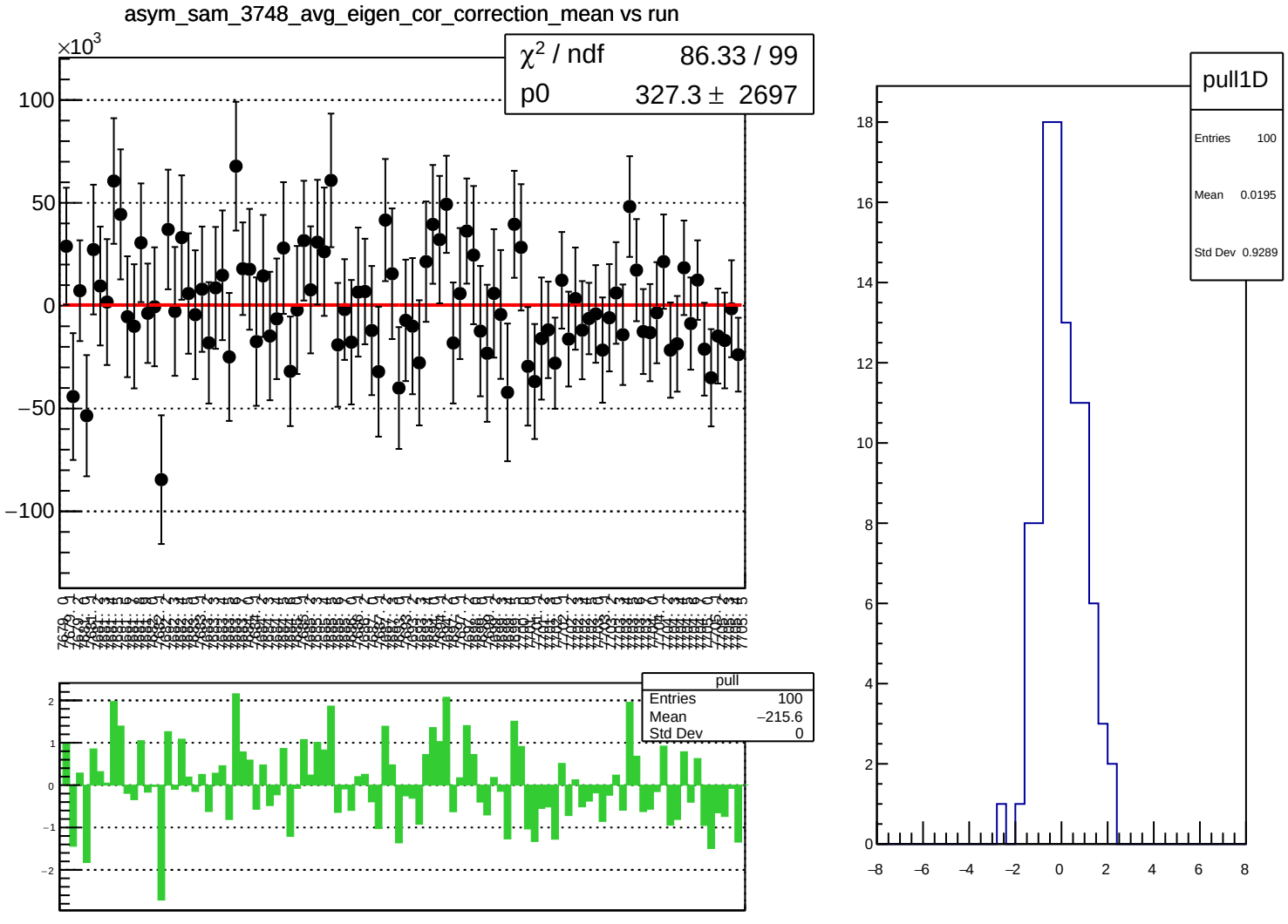

cor_asym_sam_3748_avg_rms vs run
χ^2 / ndf 2.073e+04 / 99
p0 173.2 ± 0.1255
350
300
250
200
150

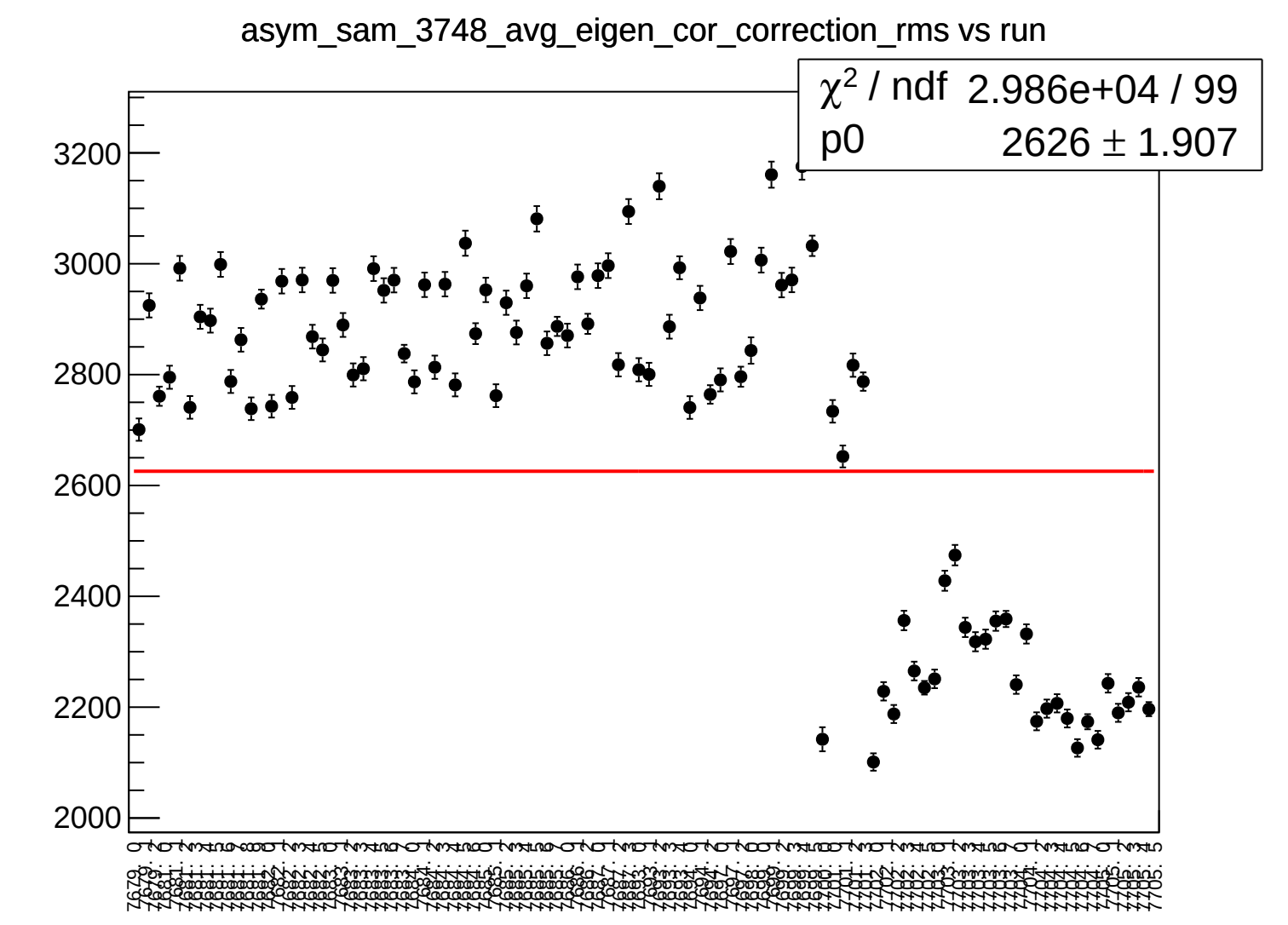

asym_sam_3748_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 86.33 / 99
p0 327.3 ± 2697
100
50
0
−50
−100
pull
Entries 100
Mean −215.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.0195
Std Dev 0.9289
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

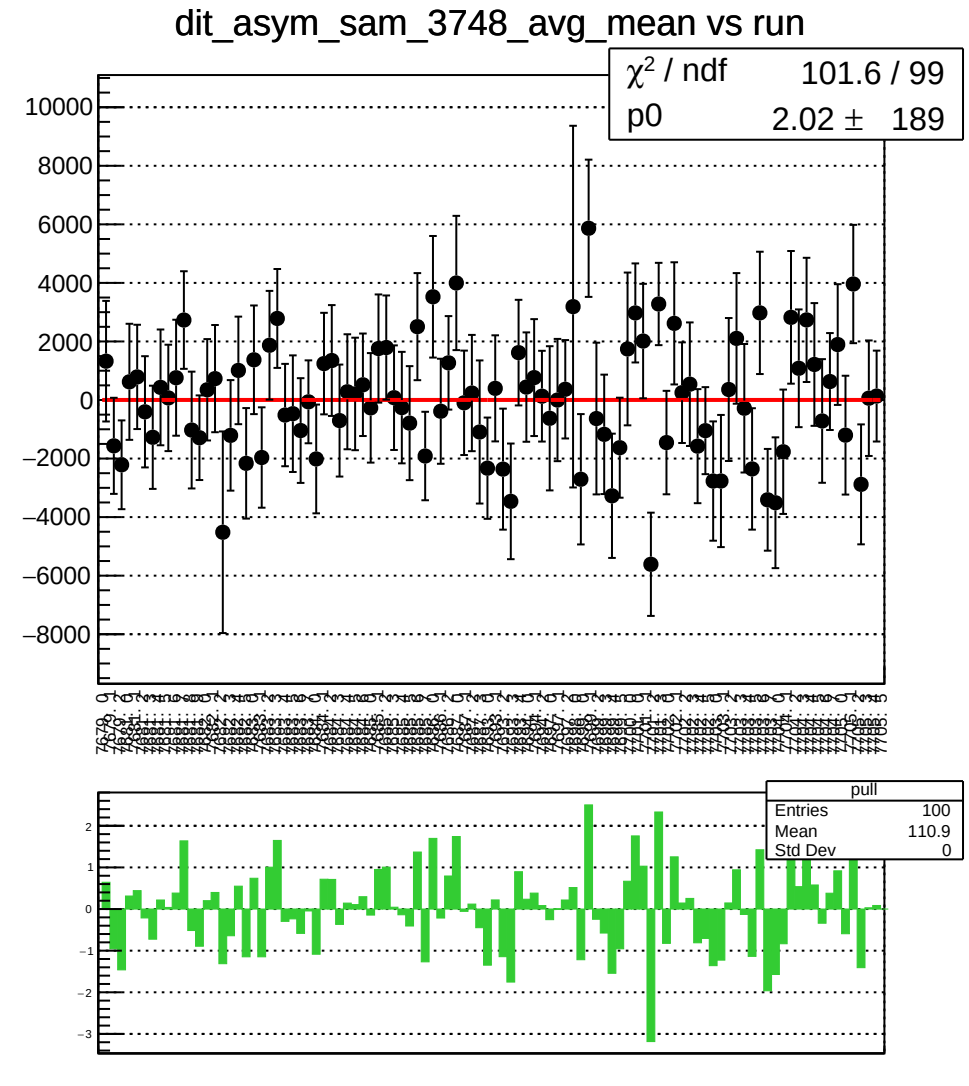

asym_sam_3748_avg_cor_correction_rms vs run
χ^2 / ndf 2.986e+04 / 99
p0 2626 ± 1.907
3200
3000
2800
2600
2400
2200
2000

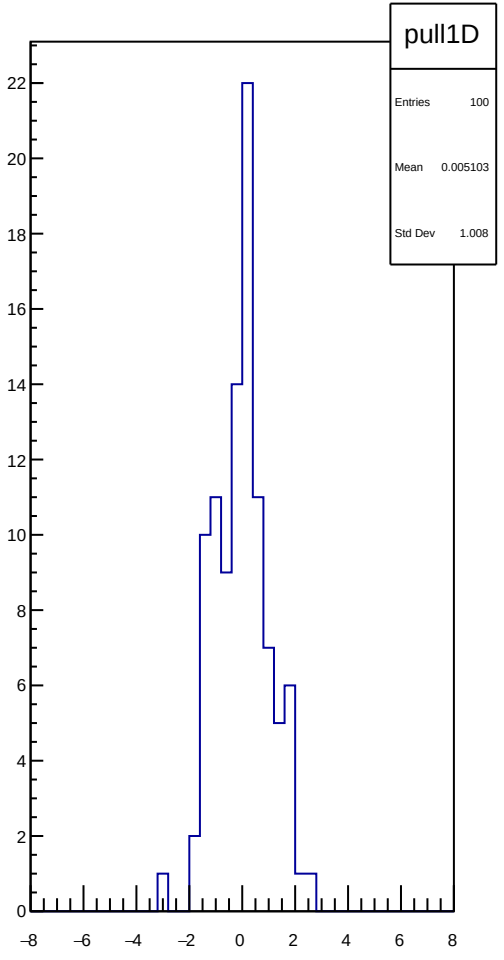

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 103.8 / 99
p0 55.74 ± 177.5
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 997.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.0009094
Std Dev 1.019
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

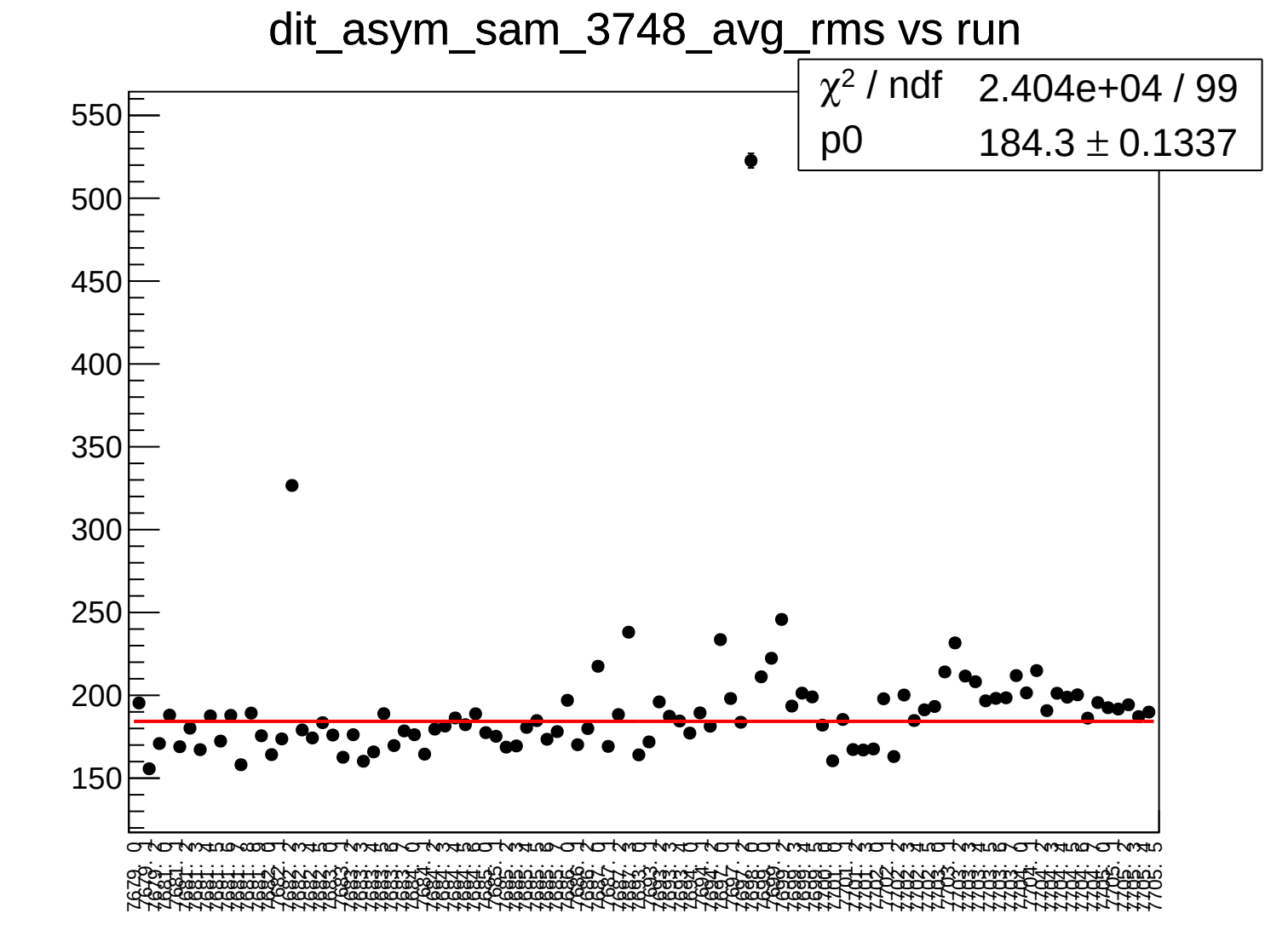

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 2.073e+04 / 99
p0 173.2 ± 0.1255
350
300
250
200
150

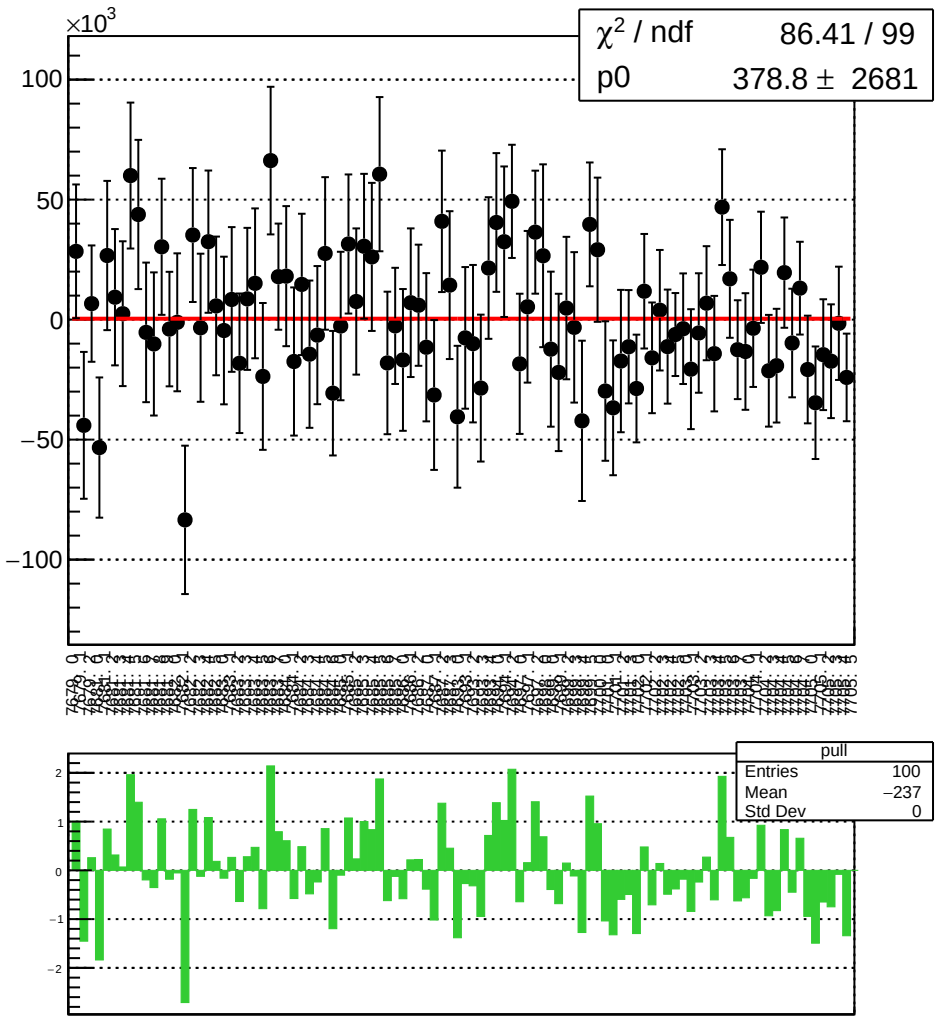

asym_sam_3748_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 86.33 / 99
p0 327.3 ± 2697
100
50
0
−50
−100
pull
Entries 100
Mean −215.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.0195
Std Dev 0.9289
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

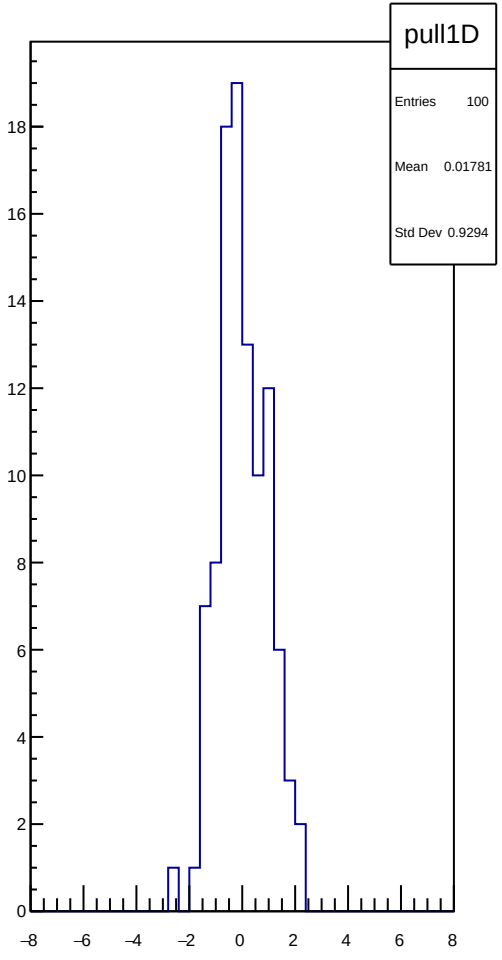

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.986e+04 / 99
p0 2626 ± 1.907
3200
3000
2800
2600
2400
2200
2000

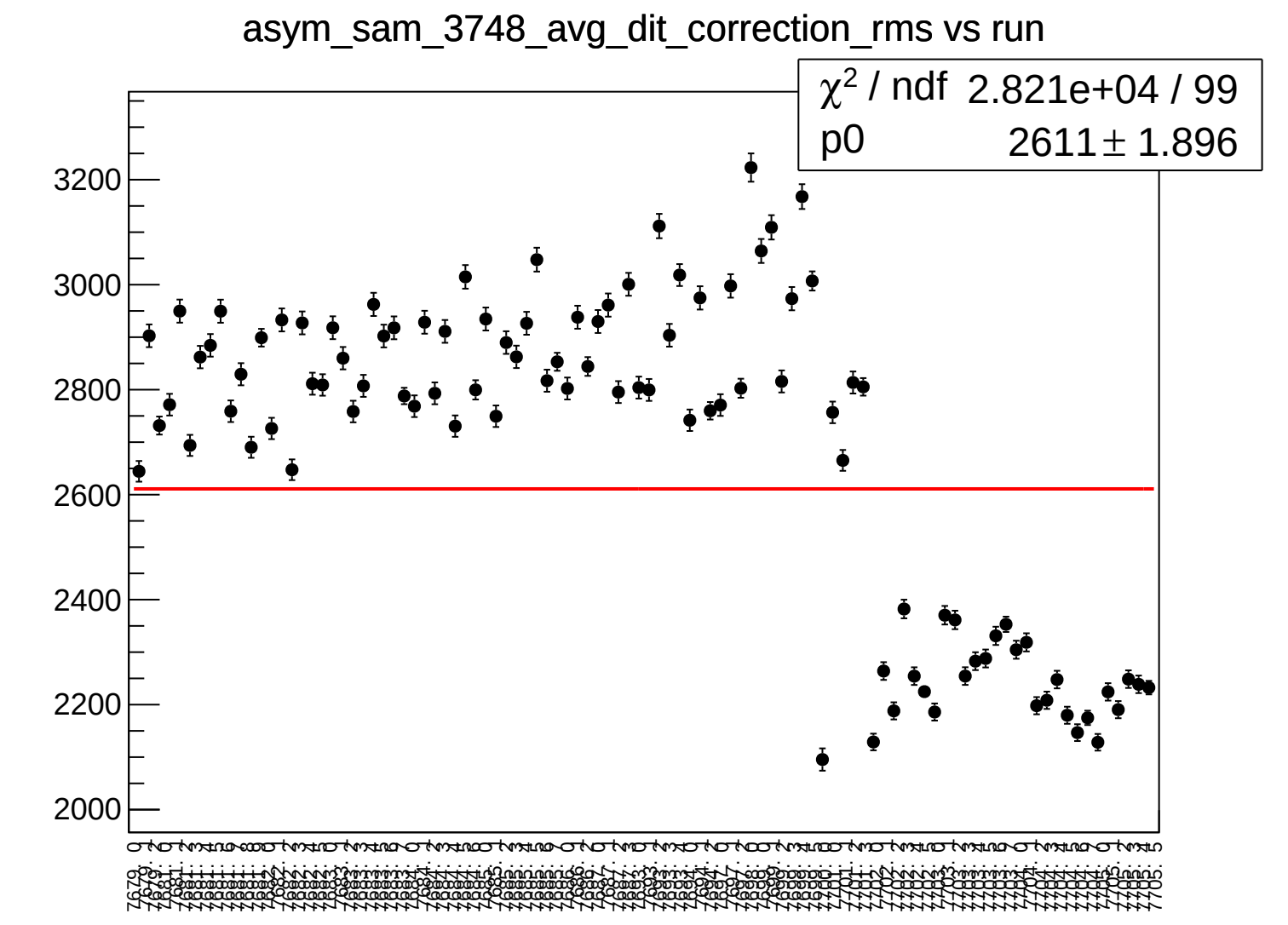

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 101.6 / 99
p0 2.02 ± 189
pull
Entries 100
Mean 110.9
Std Dev 0

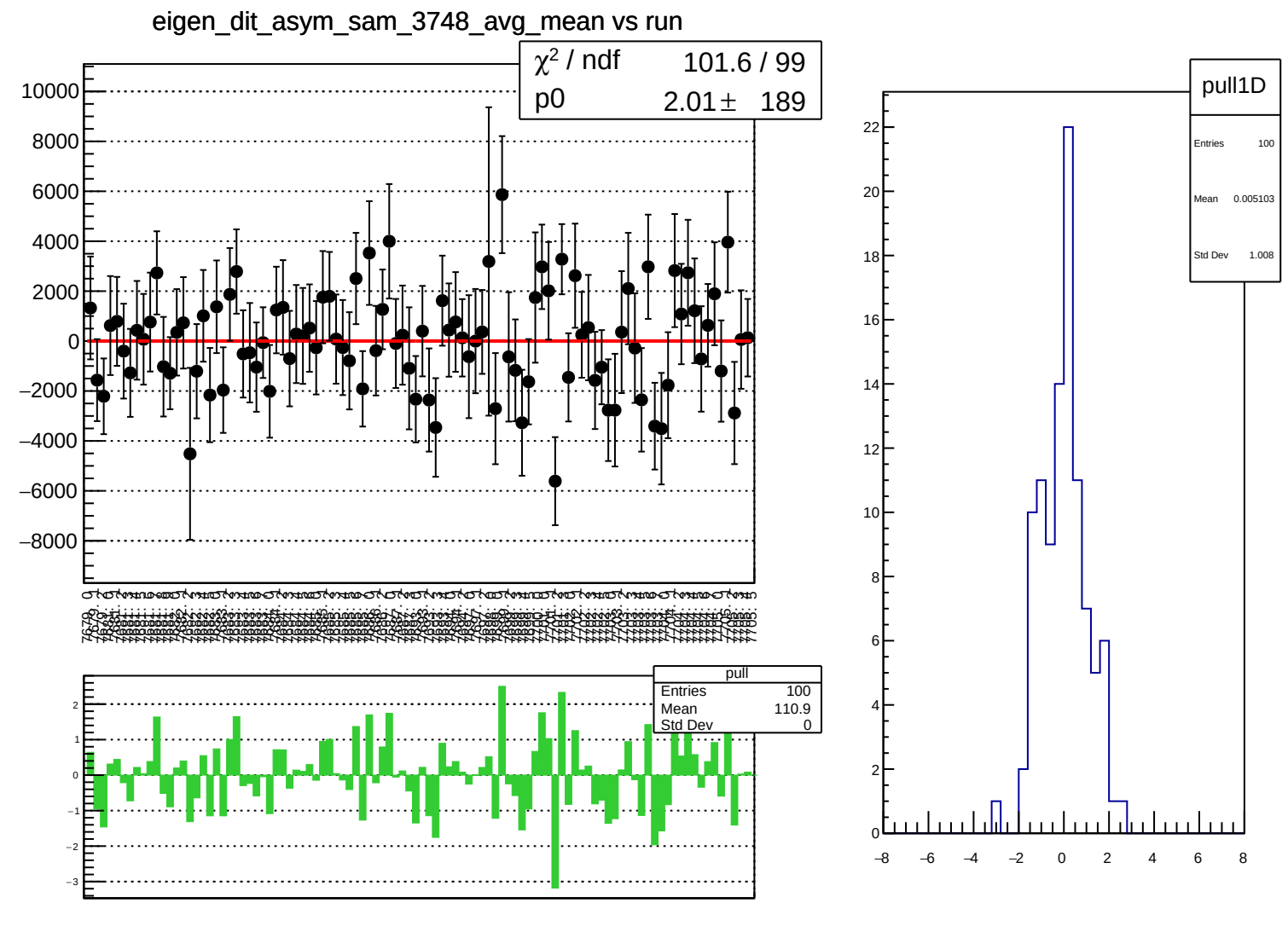

pull1D
Entries 100
Mean 0.005103
Std Dev 1.008

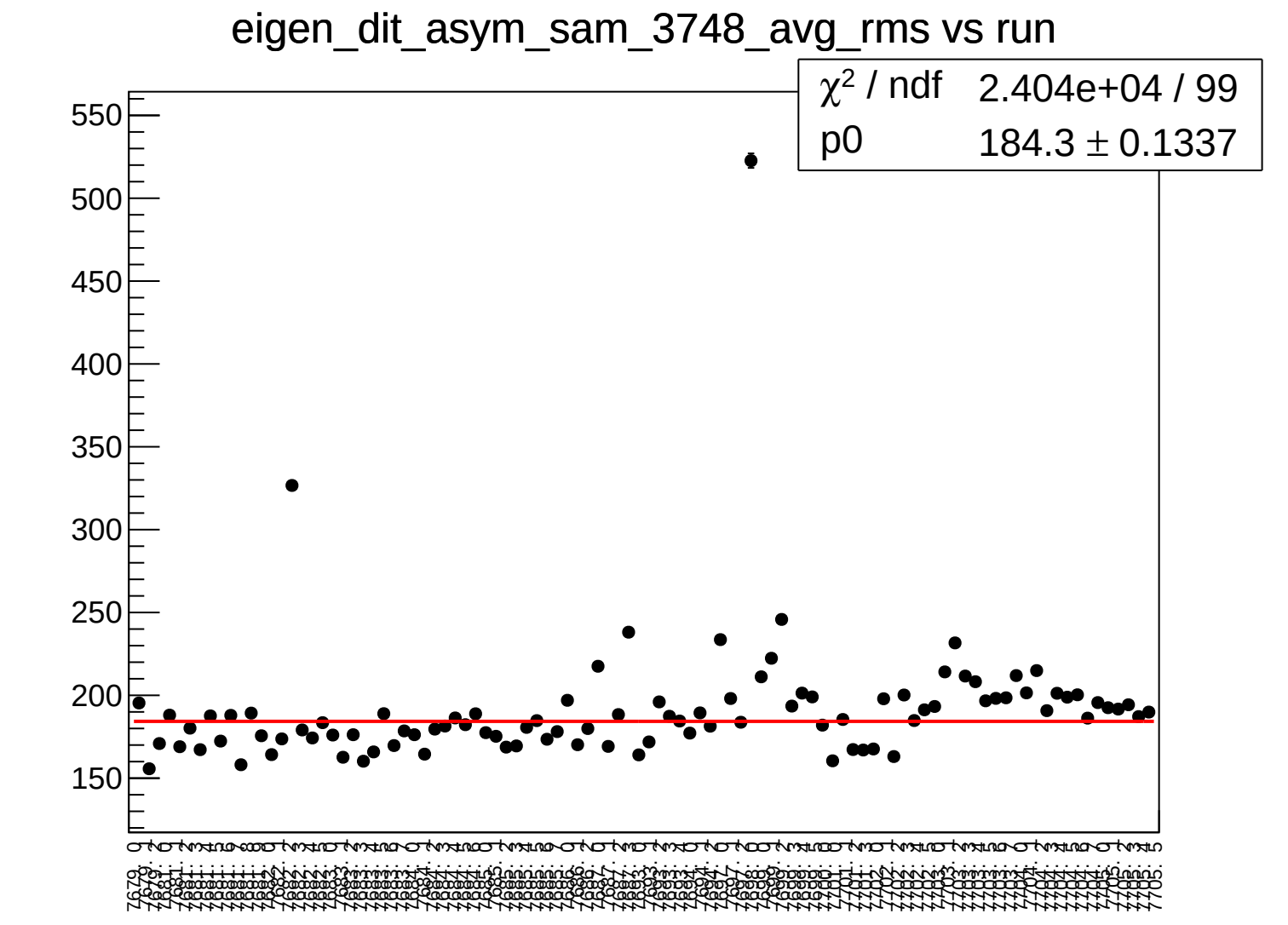

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 2.404e+04 / 99
p0 184.3 ± 0.1337
550
500
450
400
350
300
250
200
150

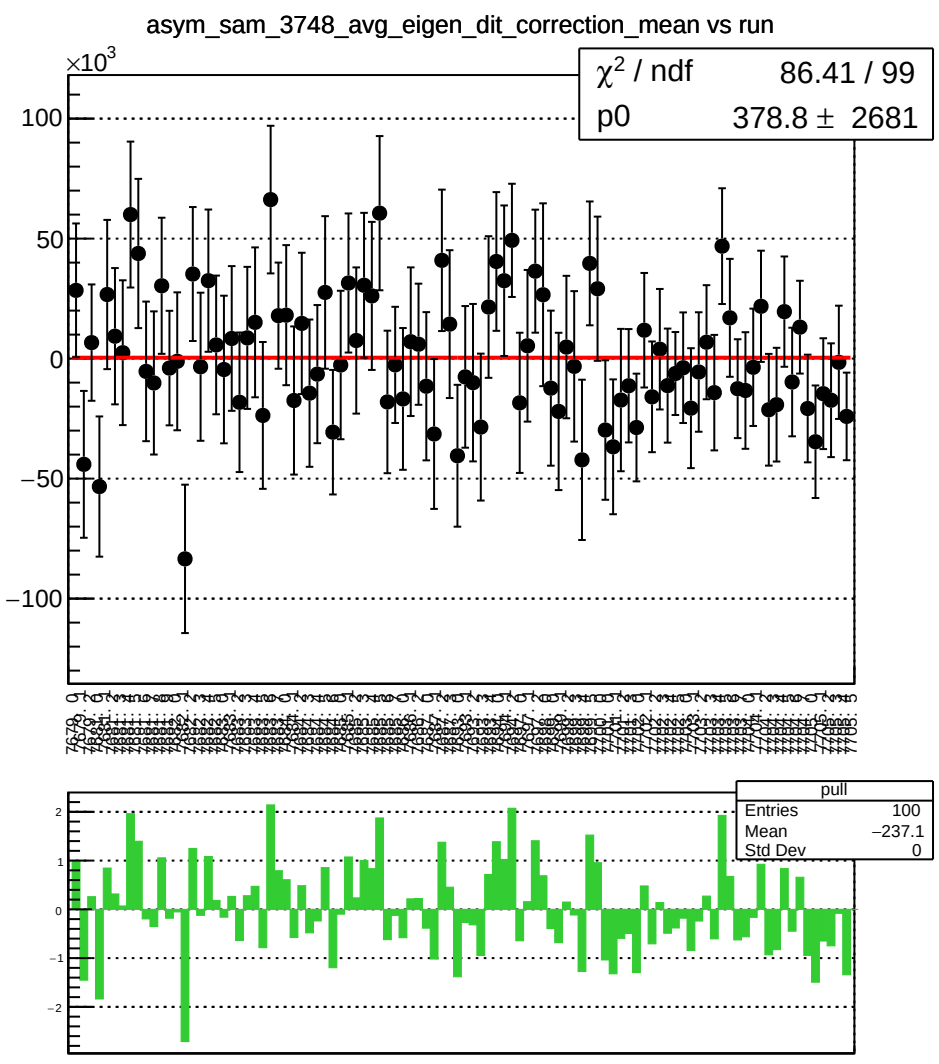

asym_sam_3748_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 86.41 / 99
p0 378.8 ± 2681
100
50
0
−50
−100
pull
Entries 100
Mean −237
Std Dev 0
2
1
0
−1
−2

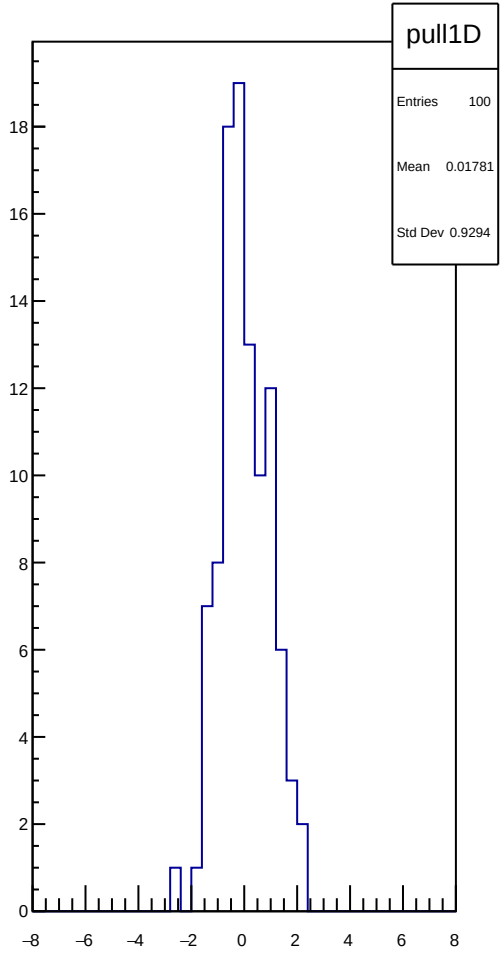

pull1D
Entries 100
Mean 0.01781
Std Dev 0.9294
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

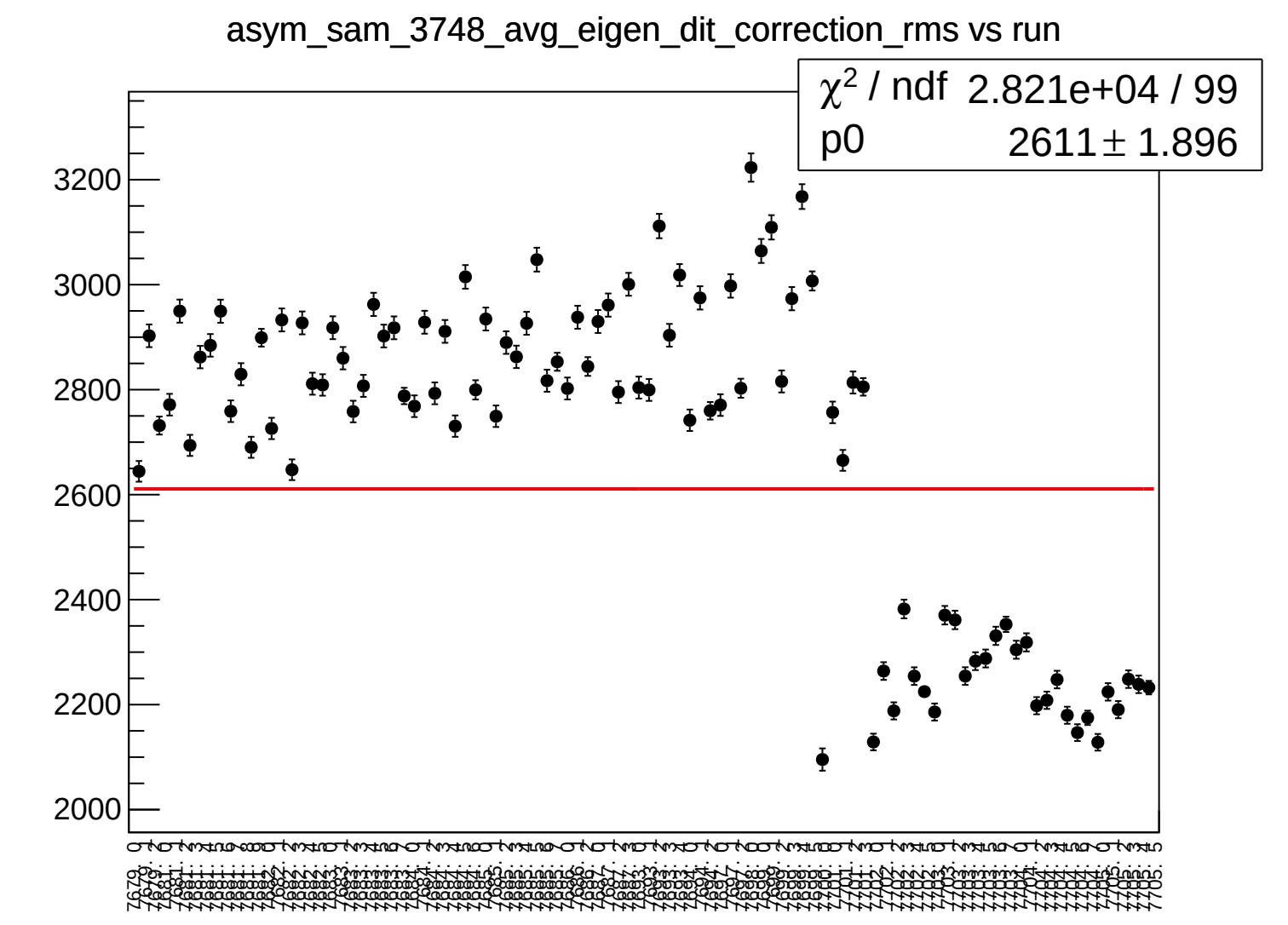

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 2.821e+04 / 99
p0 2611 ± 1.896
3200
3000
2800
2600
2400
2200
2000

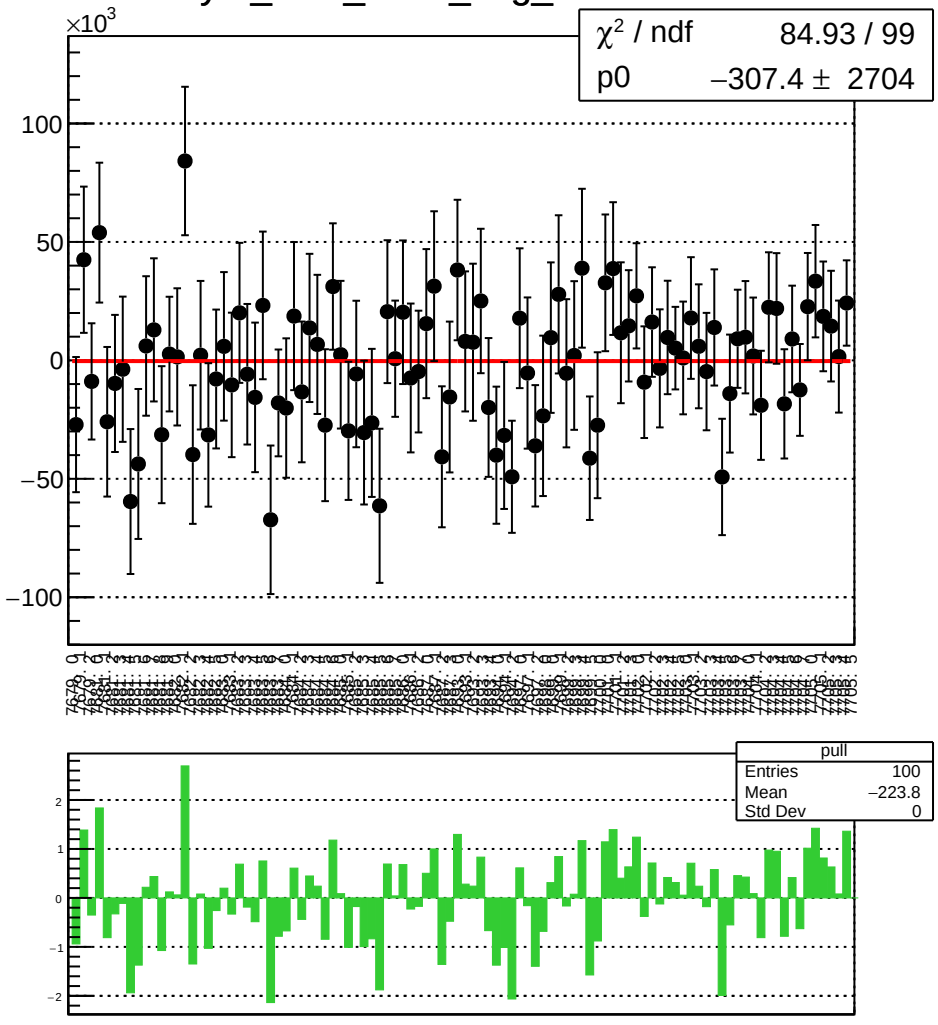

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 101.6 / 99
p0 2.01± 189
pull
Entries 100
Mean 110.9
Std Dev 0
pull1D
Entries 100
Mean 0.005103
Std Dev 1.008

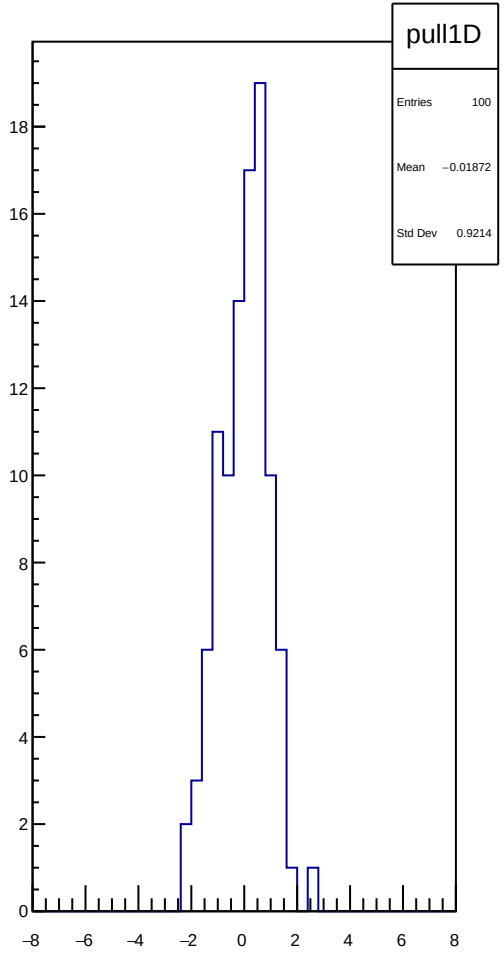

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 2.404e+04 / 99
p0 184.3 ± 0.1337
550
500
450
400
350
300
250
200
150

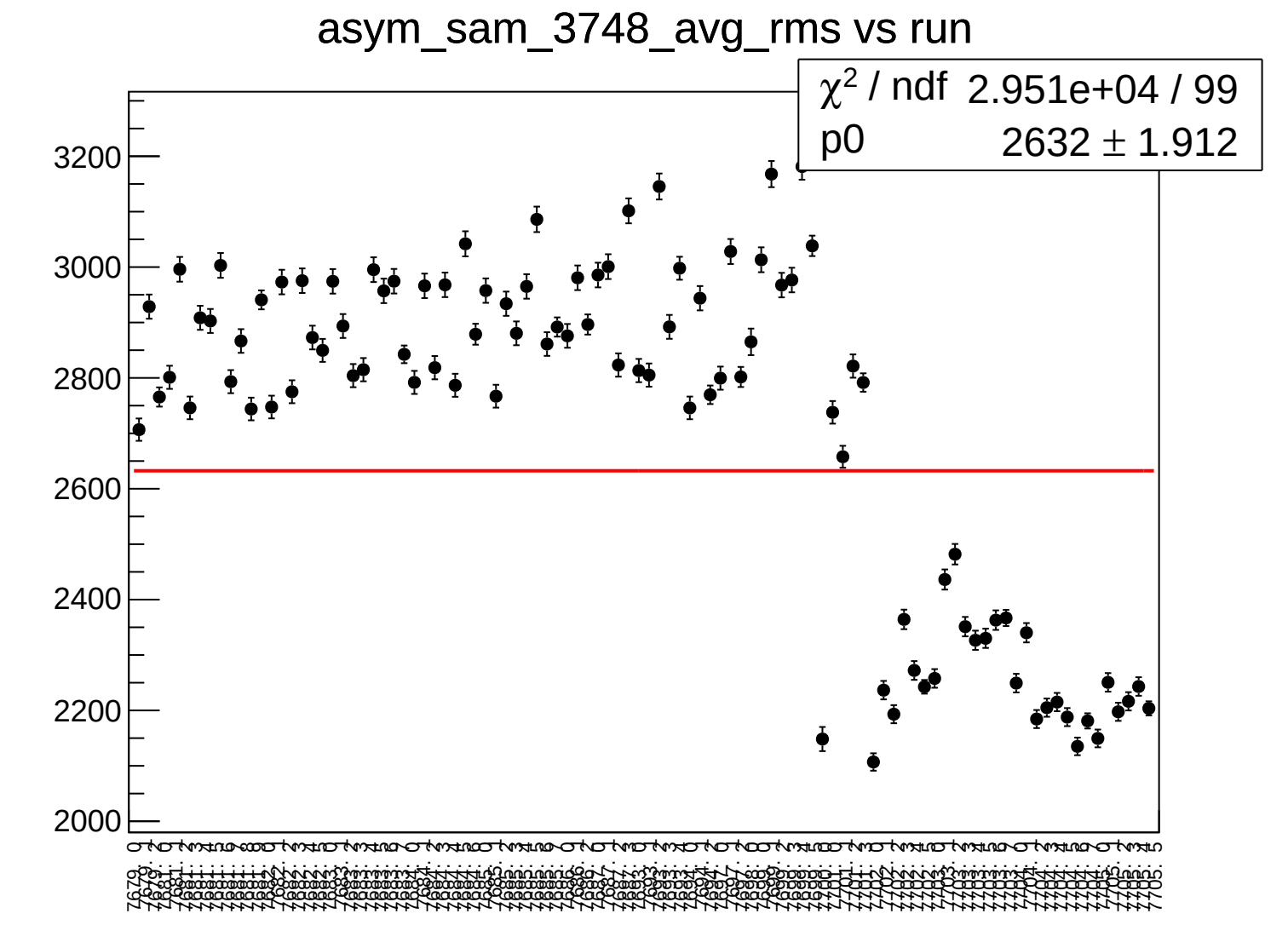

asym_sam_3748_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 86.41 / 99
p0 378.8 ± 2681
100
50
0
−50
−100
pull
Entries 100
Mean −237.1
Std Dev 0
2
1
0
−1
−2

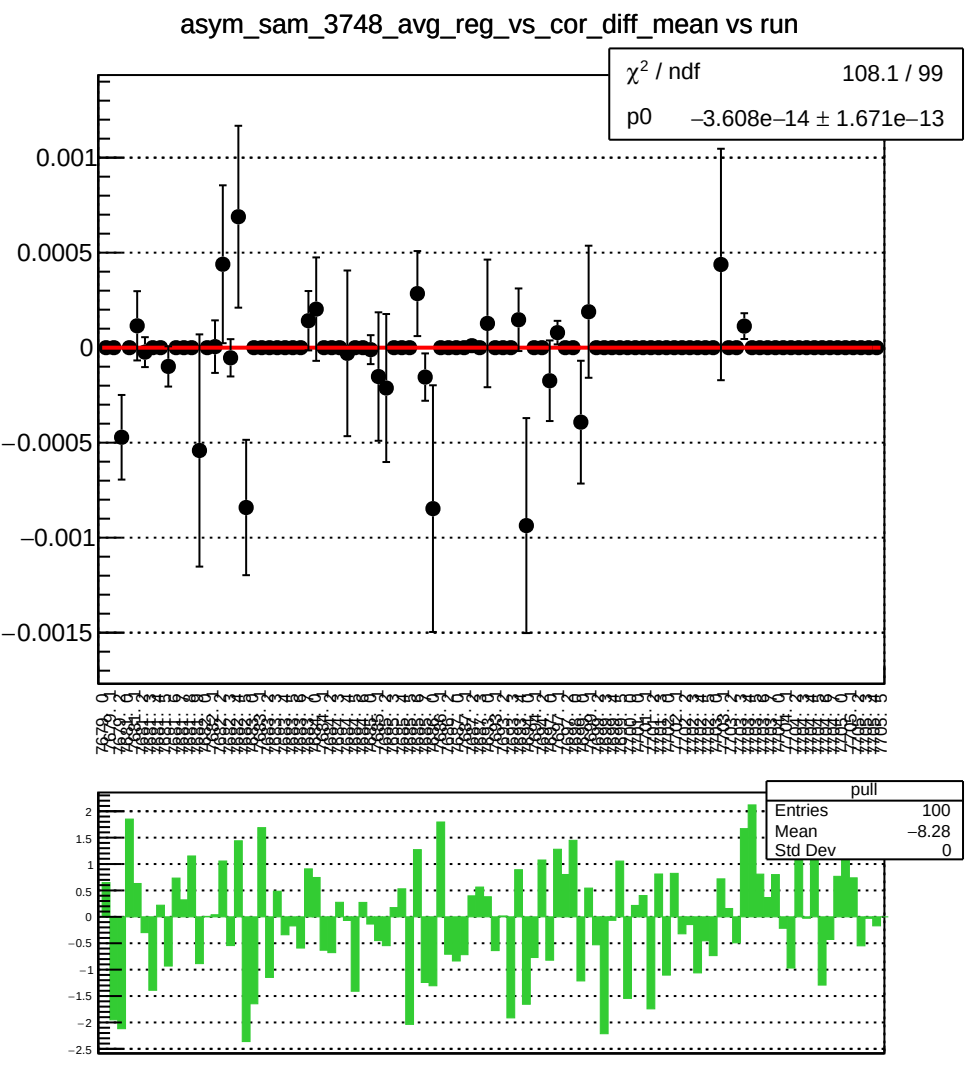

pull1D
Entries 100
Mean 0.01781
Std Dev 0.9294
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

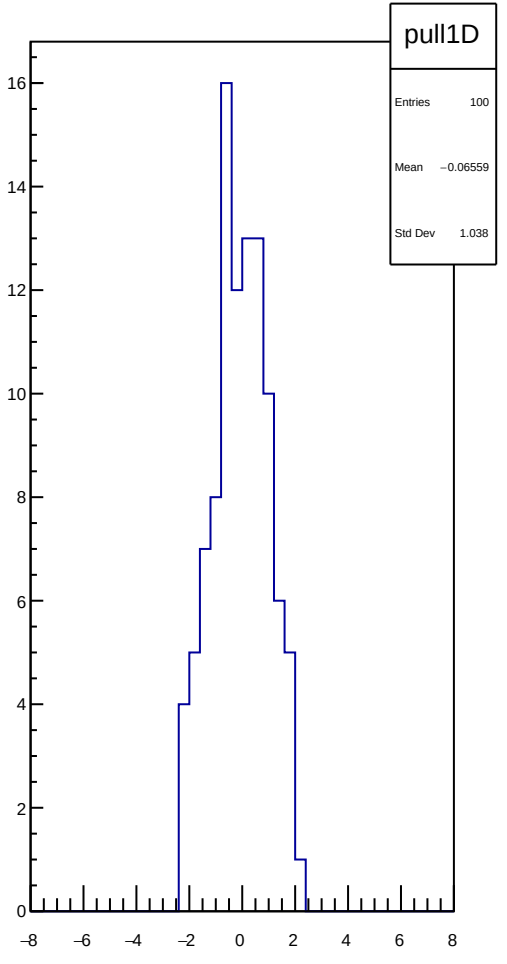

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.821e+04 / 99
p0 2611 ± 1.896
3200
3000
2800
2600
2400
2200
2000

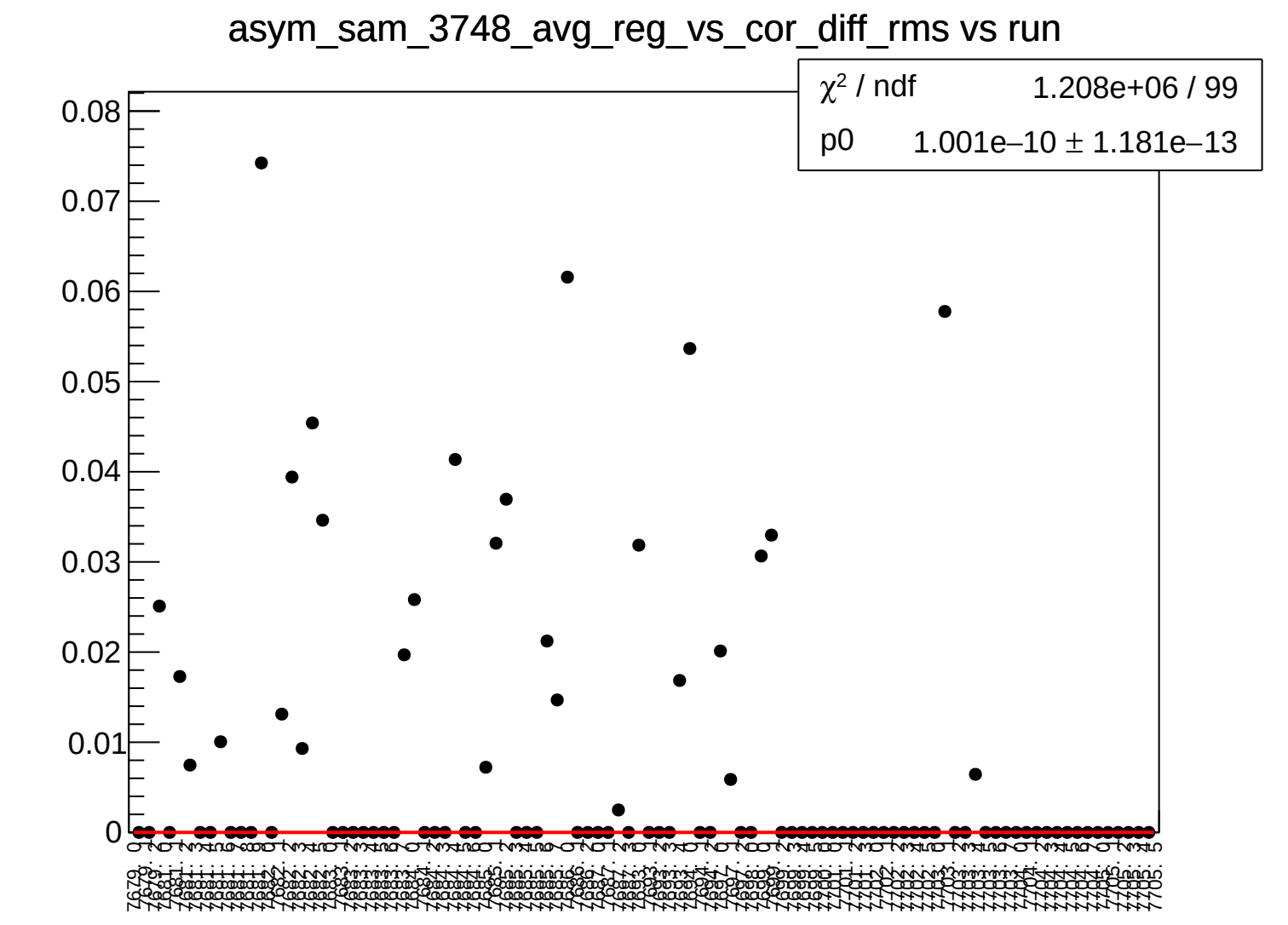

asym_sam_3748_avg_mean vs run
×10^3
χ² / ndf 84.93 / 99
p0 −307.4 ± 2704
100
50
0
−50
−100
pull
Entries 100
Mean −223.8
Std Dev 0
2
1
0
−1
−2

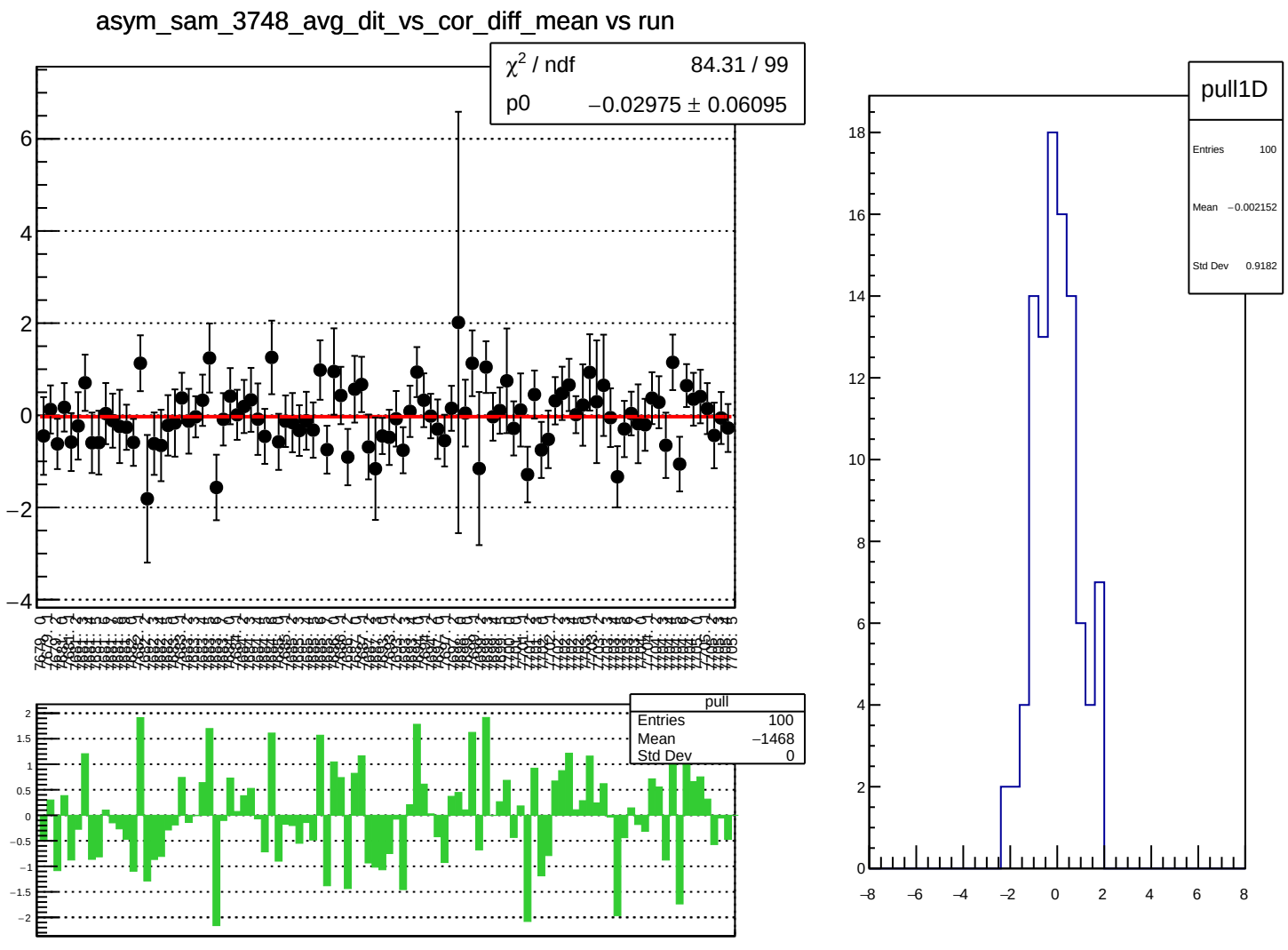

pull1D
Entries 100
Mean −0.01872
Std Dev 0.9214
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

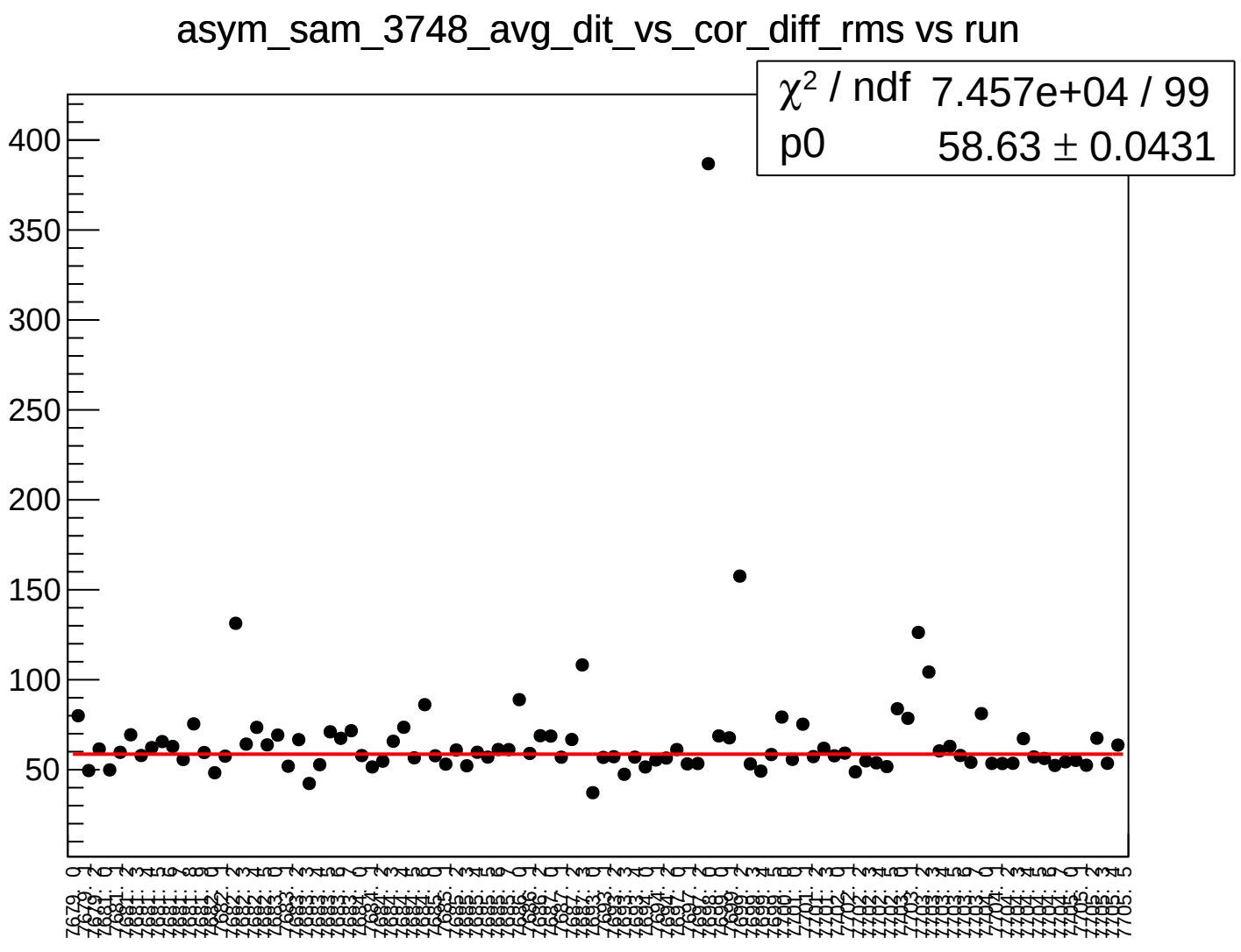

asym_sam_3748_avg_rms vs run
χ² / ndf 2.951e+04 / 99
p0 2632 ± 1.912
3200
3000
2800
2600
2400
2200
2000

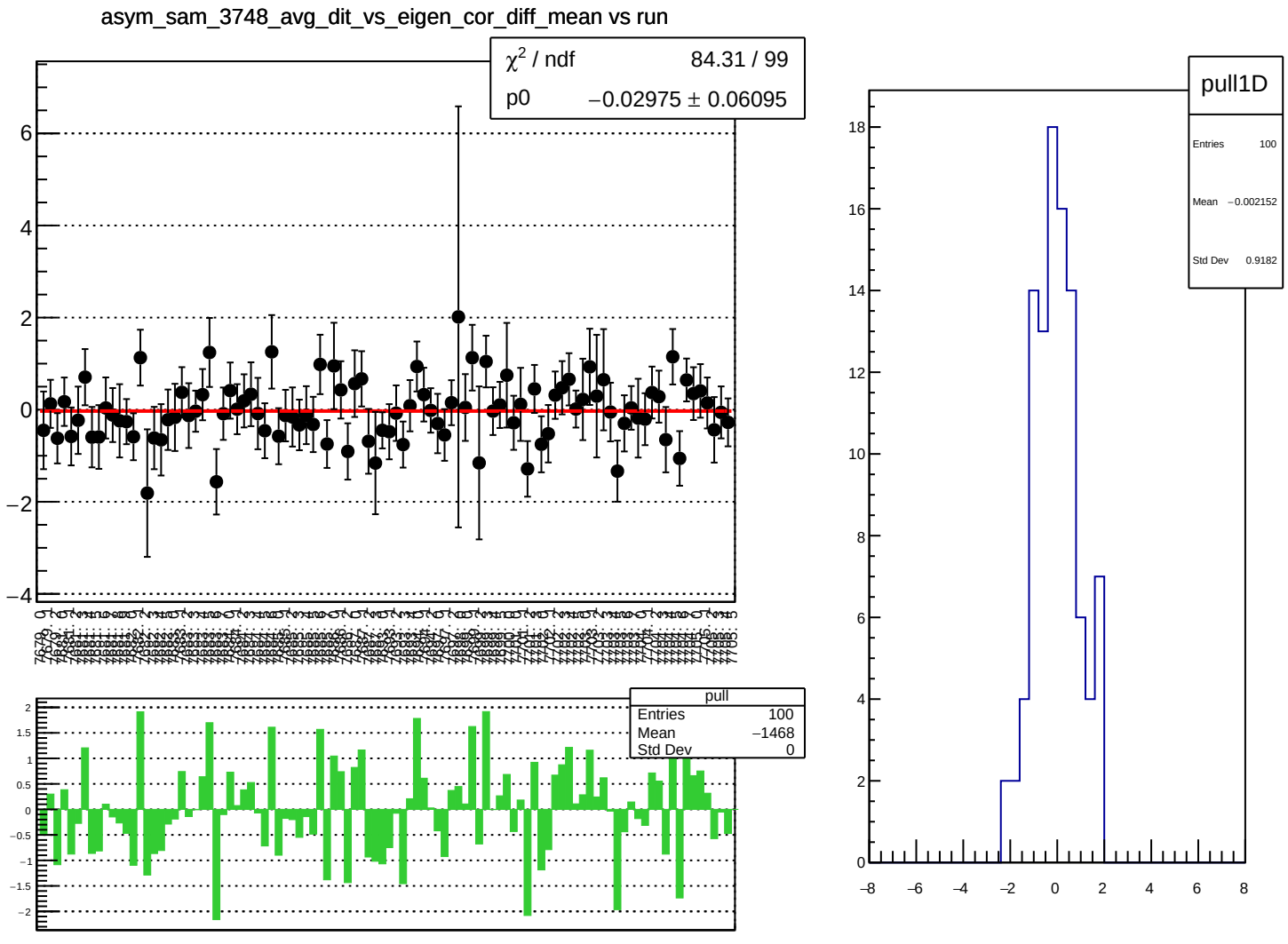

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 108.1 / 99
p0 −3.608e−14 ± 1.671e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 100
Mean −8.28
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

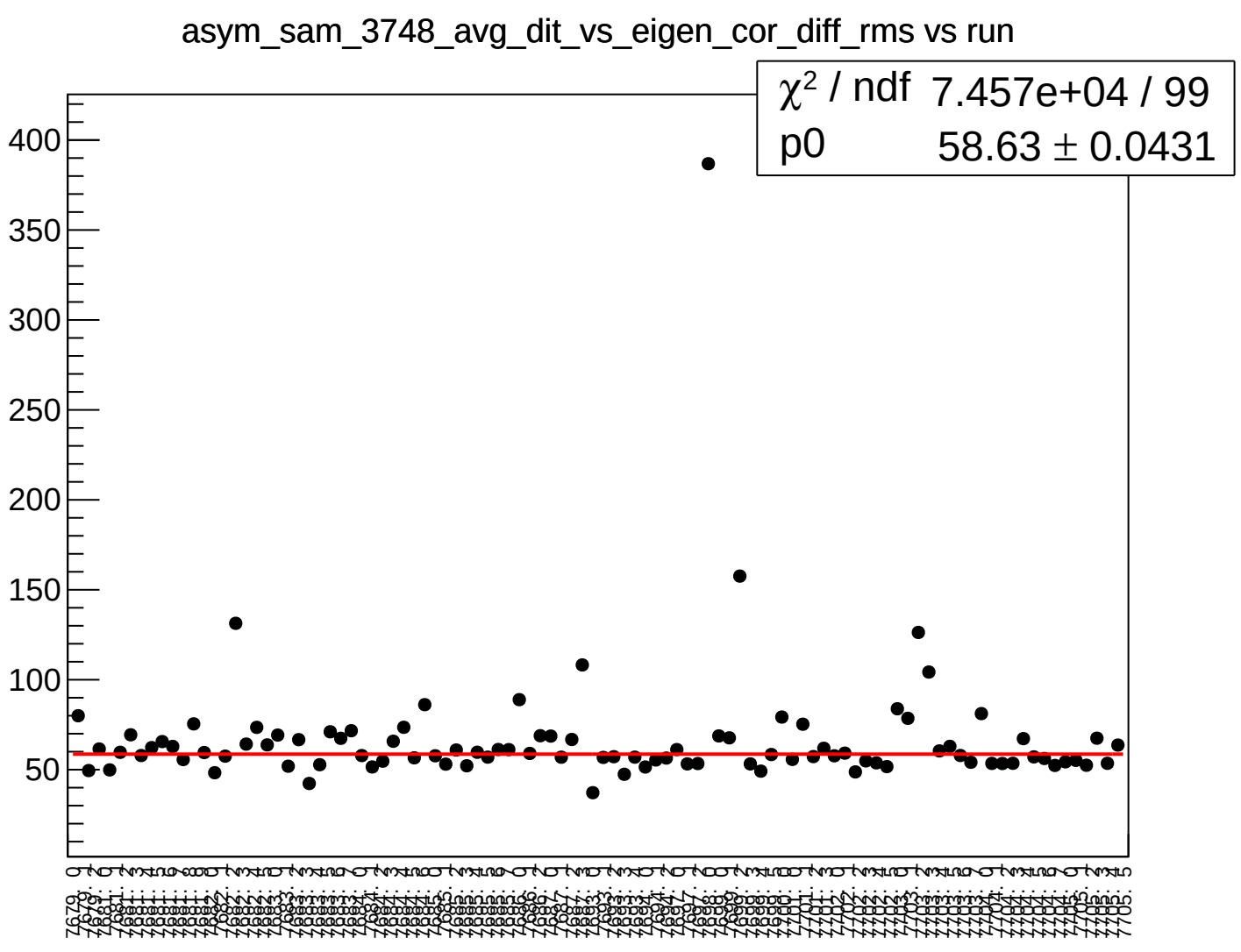

pull1D
Entries 100
Mean −0.06559
Std Dev 1.038
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

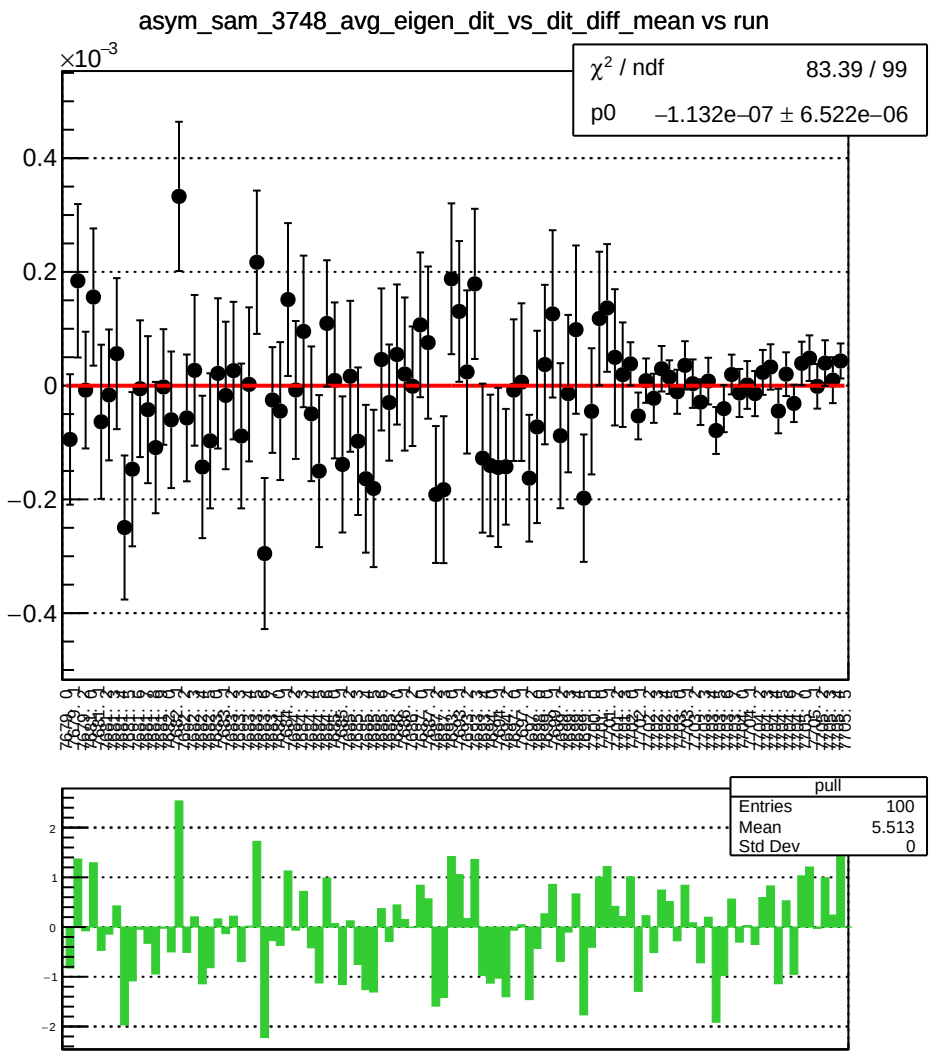

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.208e+06 / 99
p0 1.001e−10 ± 1.181e−13
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

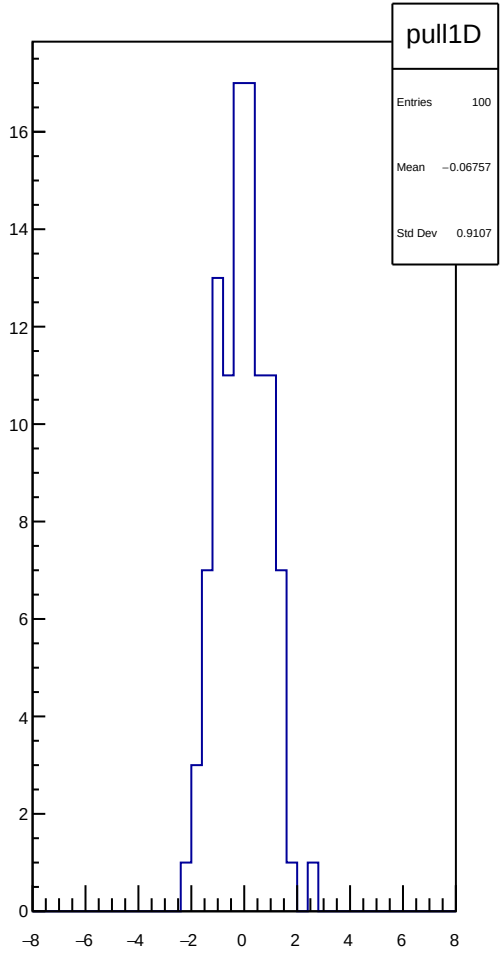

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.31 / 99
p0 −0.02975 ± 0.06095
pull
Entries 100
Mean −1468
Std Dev 0
pull1D
Entries 100
Mean −0.002152
Std Dev 0.9182

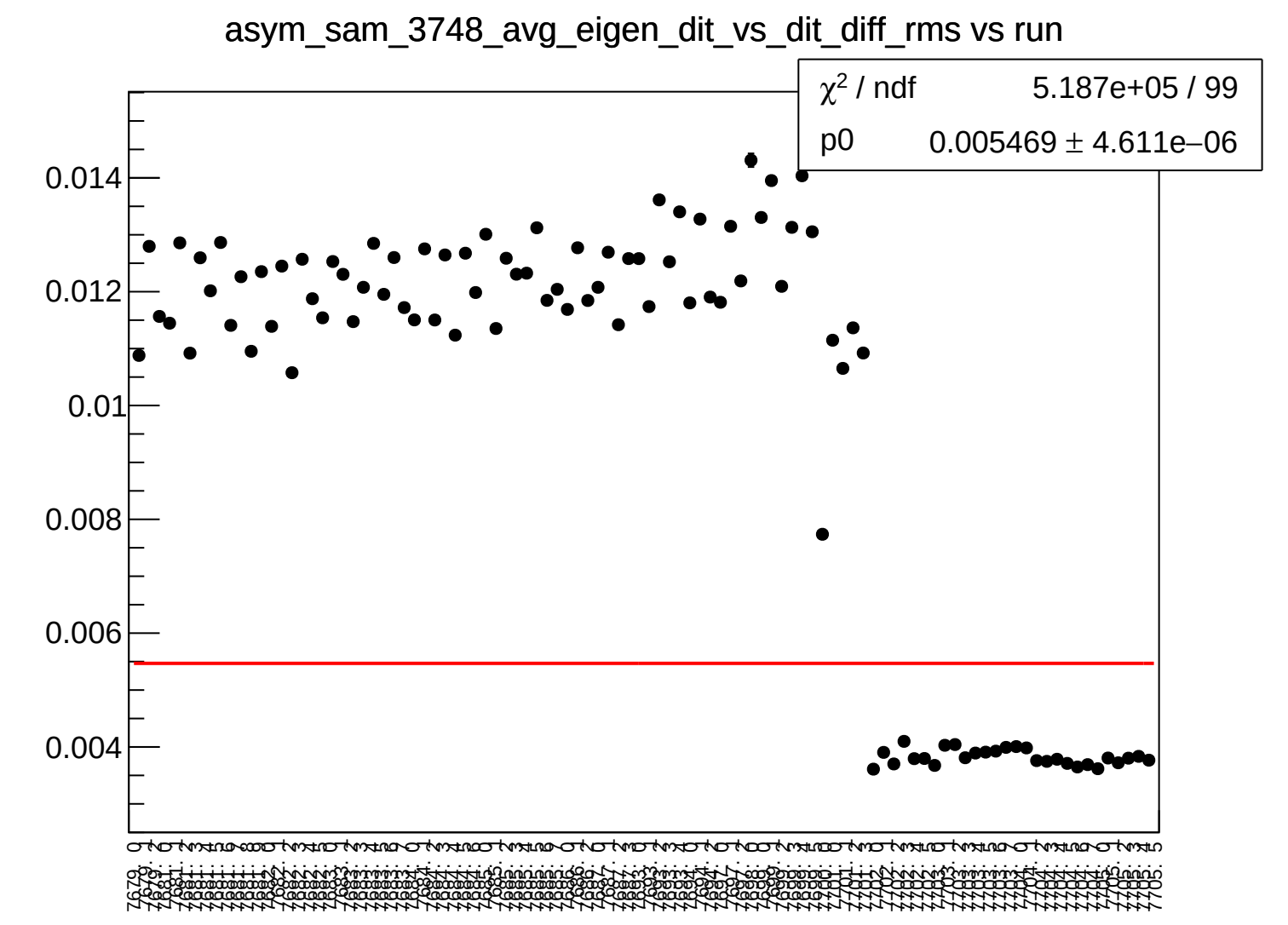

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.457e+04 / 99
p0 58.63 ± 0.0431
400
350
300
250
200
150
100
50

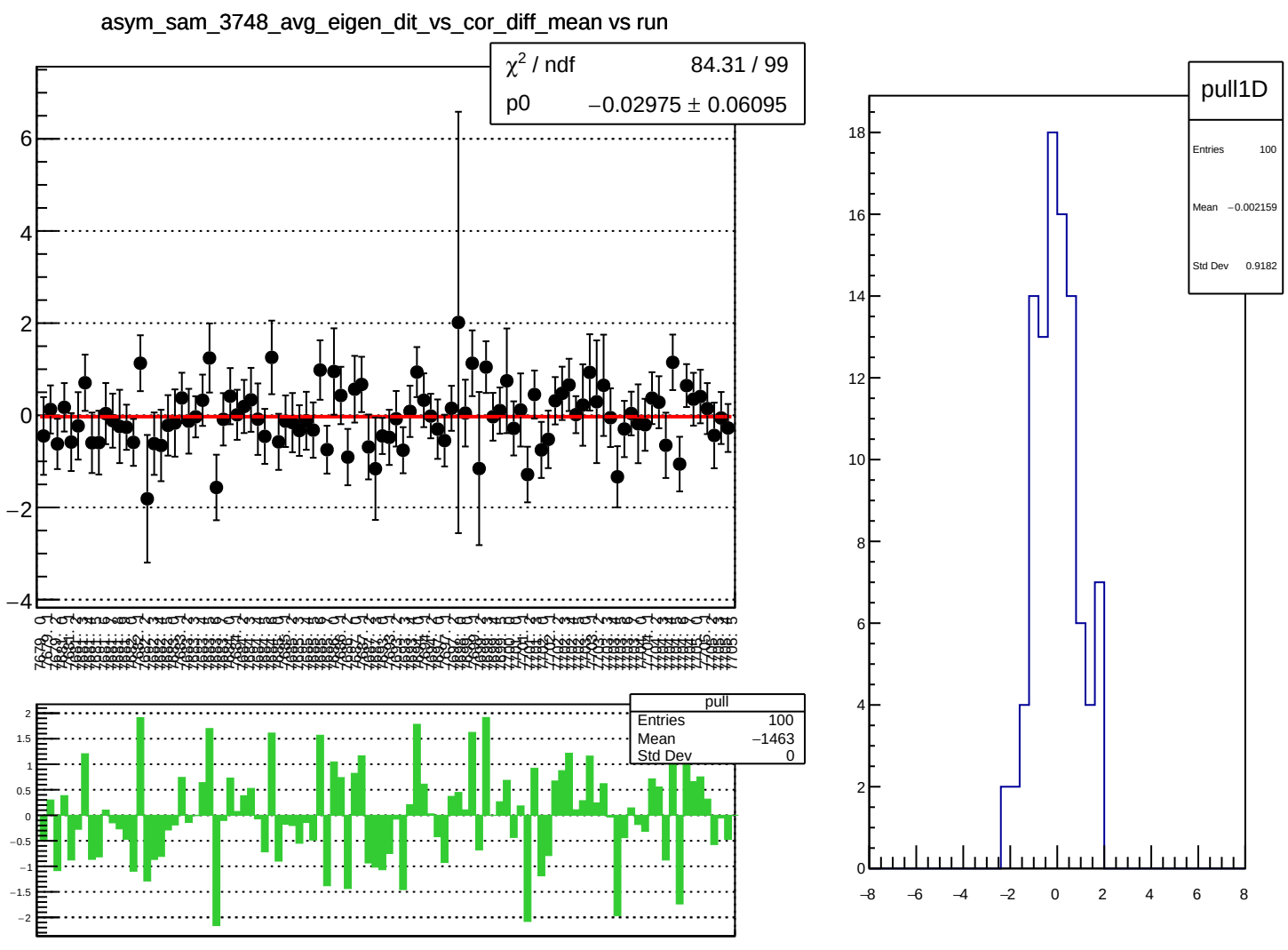

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.31 / 99
p0 −0.02975 ± 0.06095
pull
Entries 100
Mean −1468
Std Dev 0
pull1D
Entries 100
Mean −0.002152
Std Dev 0.9182

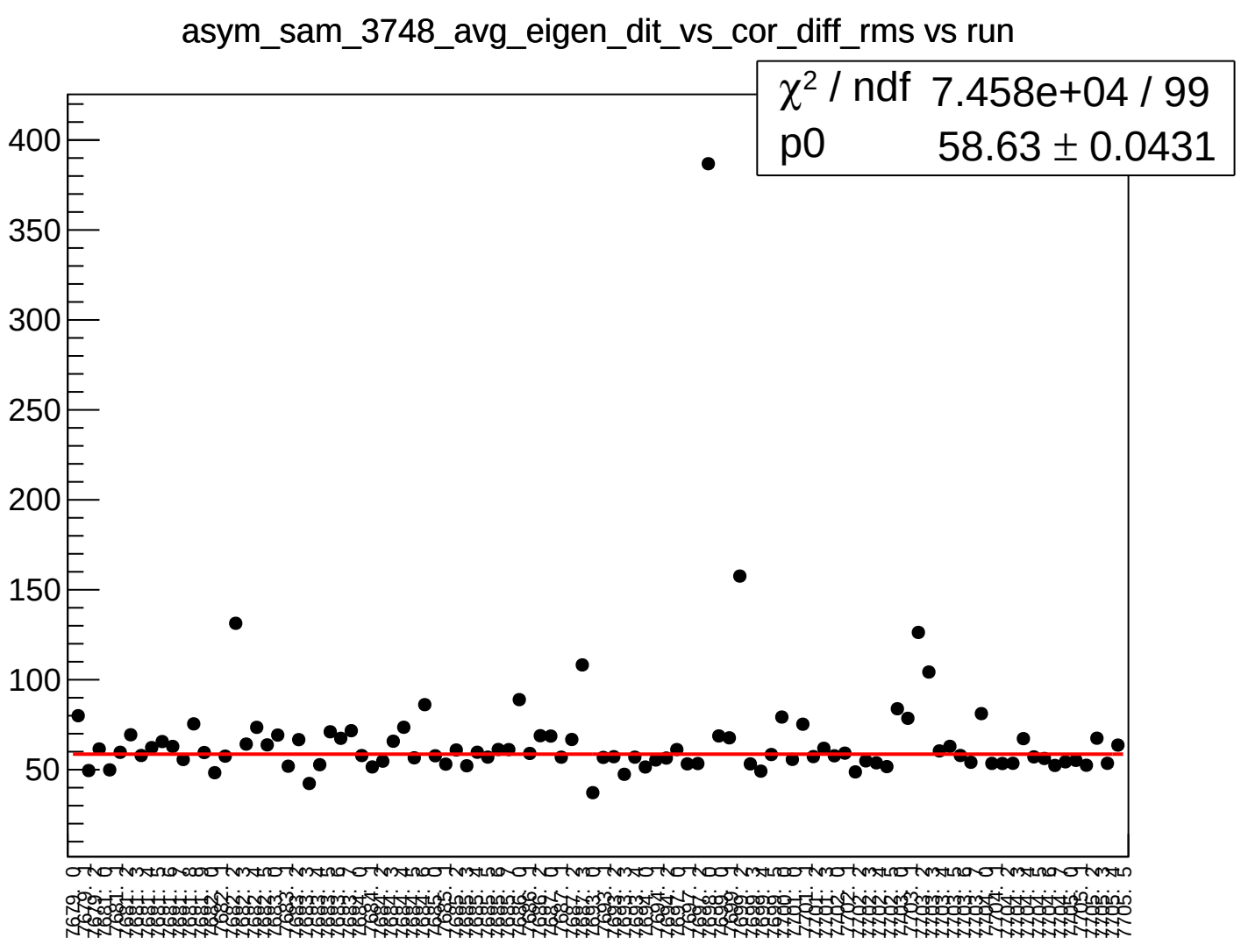

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.457e+04 / 99
p0 58.63 ± 0.0431
400
350
300
250
200
150
100
50

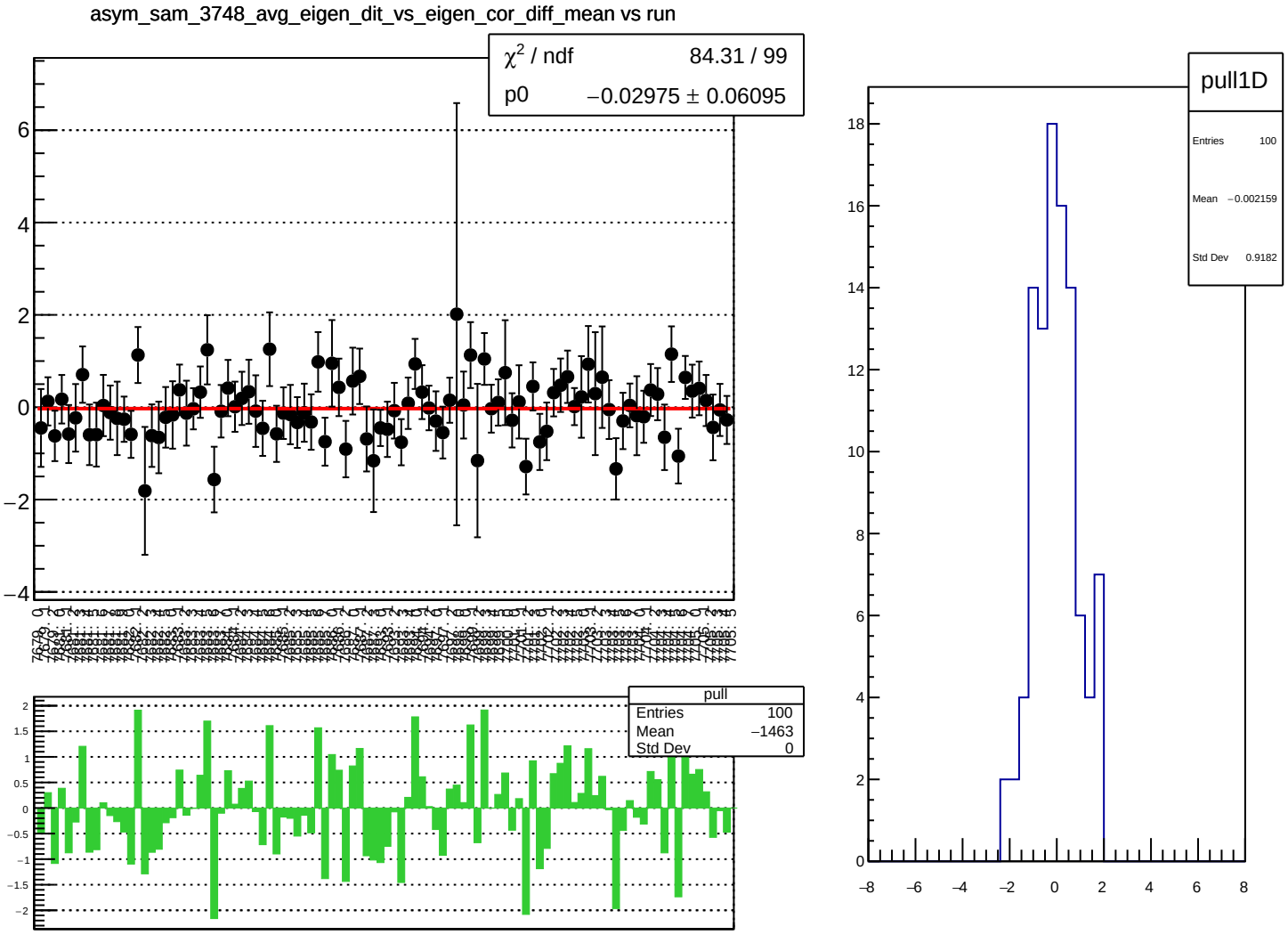

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.39 / 99
p0 −1.132e−07 ± 6.522e−06
0.4
0.2
0
−0.2
−0.4
pull
Entries 100
Mean 5.513
Std Dev 0
2
1
0
−1
−2

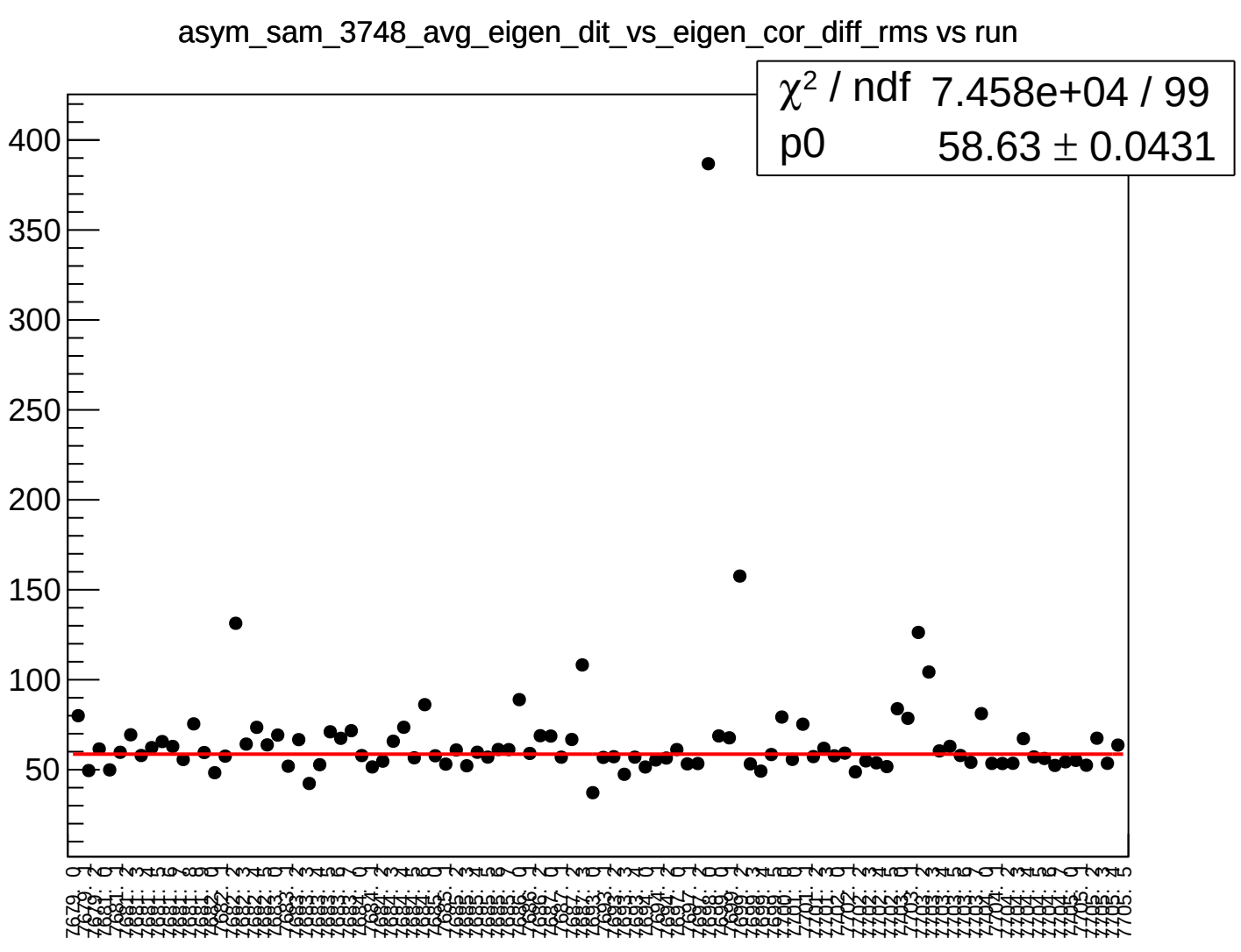

pull1D
Entries 100
Mean −0.06757
Std Dev 0.9107
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

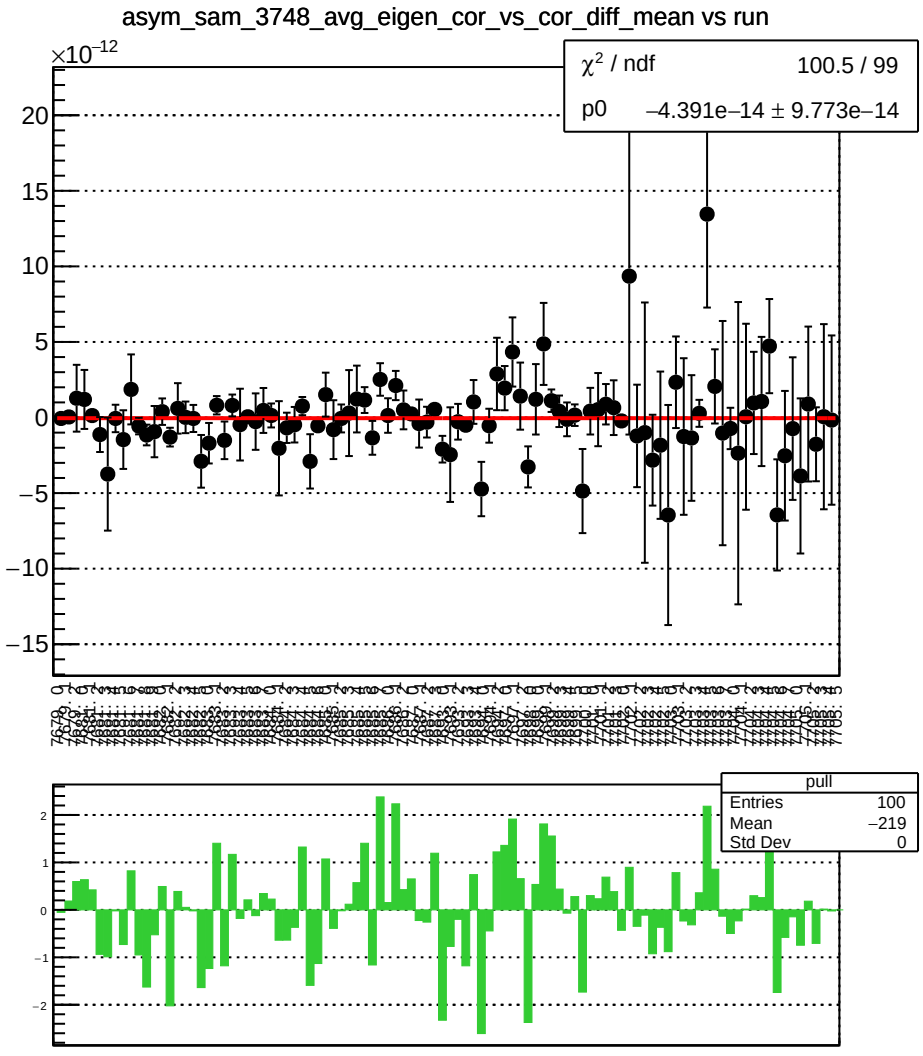

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.187e+05 / 99
p0 0.005469 ± 4.611e−06
0.014
0.012
0.01
0.008
0.006
0.004

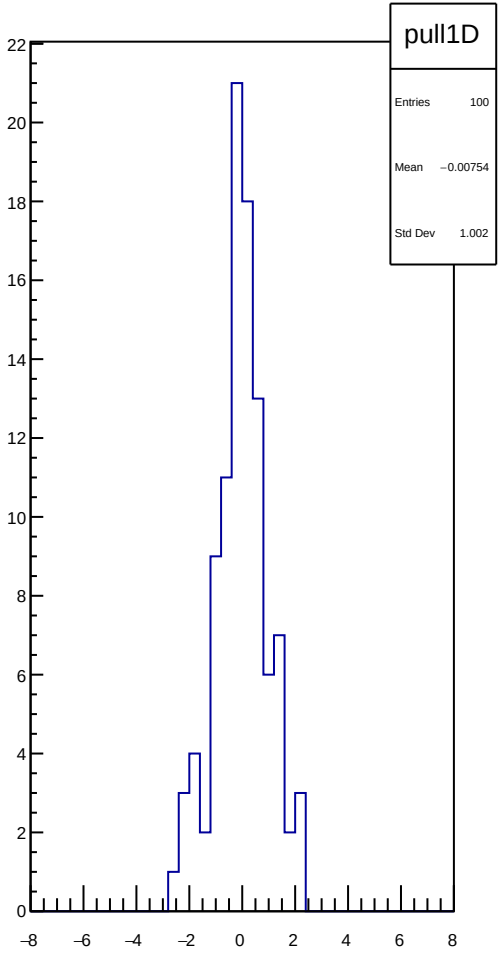

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.31 / 99
p0 −0.02975 ± 0.06095
pull
Entries 100
Mean −1463
Std Dev 0
pull1D
Entries 100
Mean −0.002159
Std Dev 0.9182

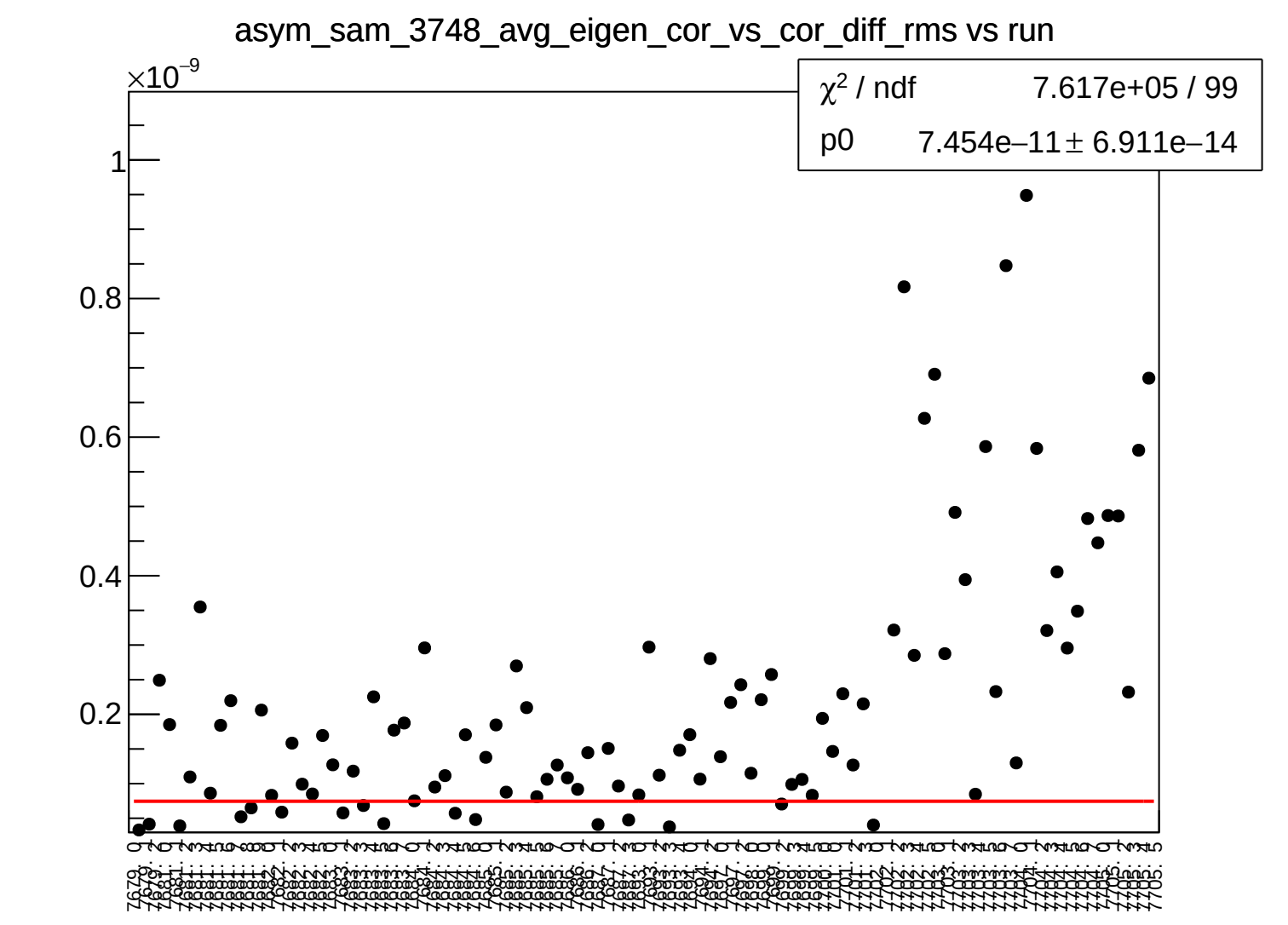

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.458e+04 / 99
p0 58.63 ± 0.0431
400
350
300
250
200
150
100
50

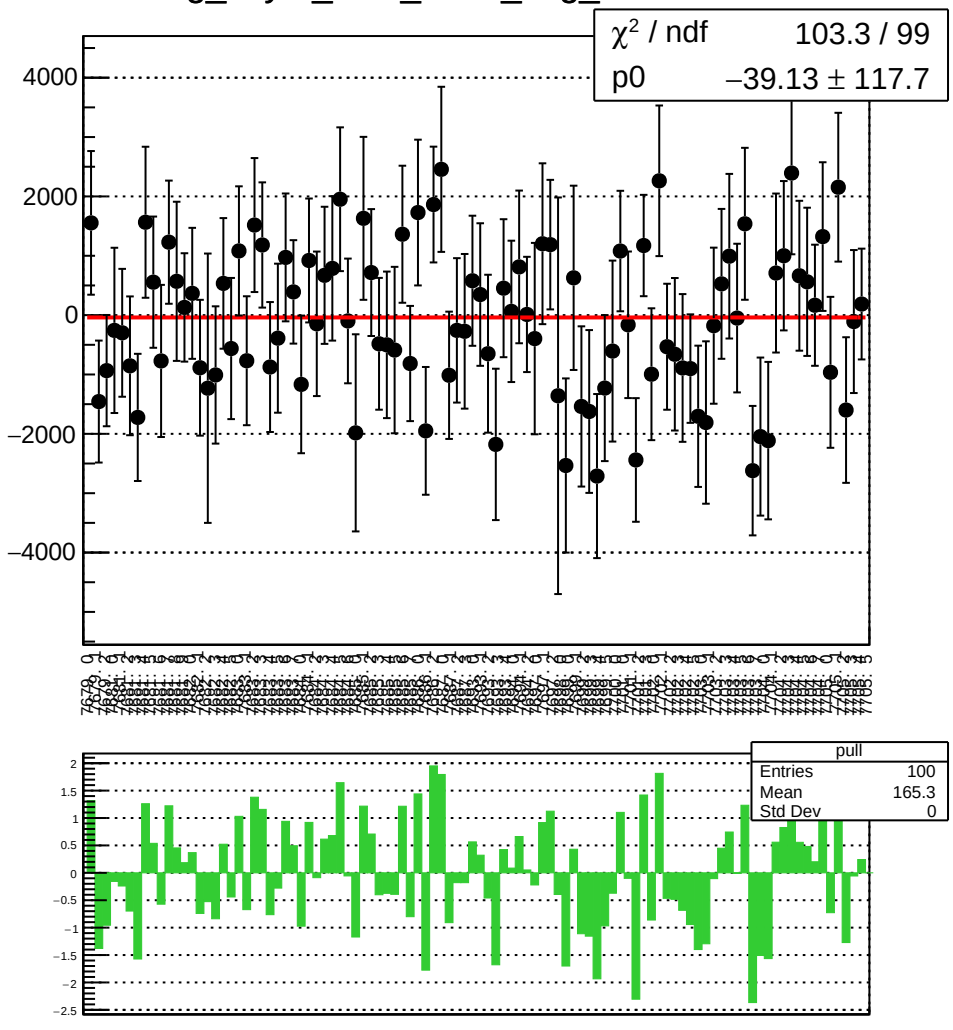

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.31 / 99
p0 −0.02975 ± 0.06095
pull
Entries 100
Mean −1463
Std Dev 0
pull1D
Entries 100
Mean −0.002159
Std Dev 0.9182

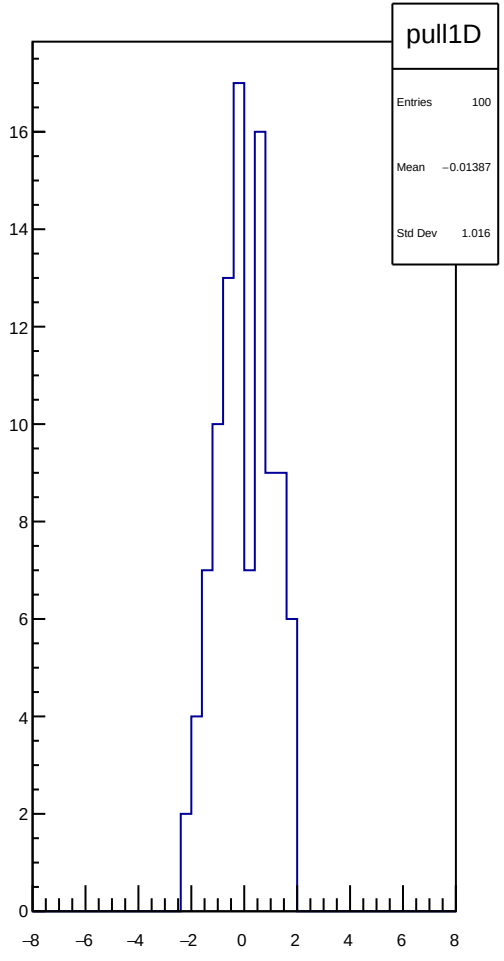

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.458e+04 / 99
p0 58.63 ± 0.0431
400
350
300
250
200
150
100
50

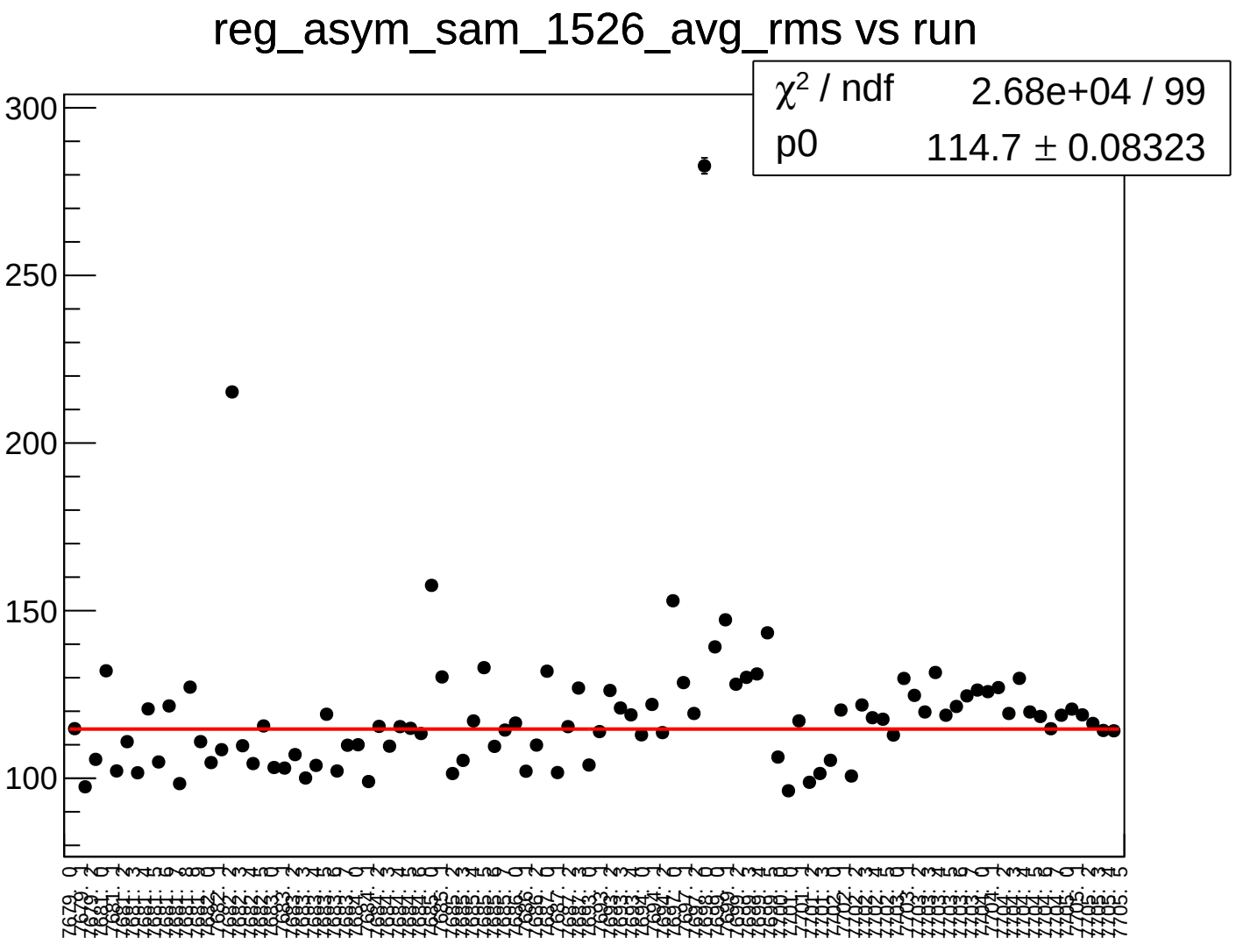

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.5 / 99
p0 −4.391e−14 ± 9.773e−14
pull
Entries 100
Mean −219
Std Dev 0

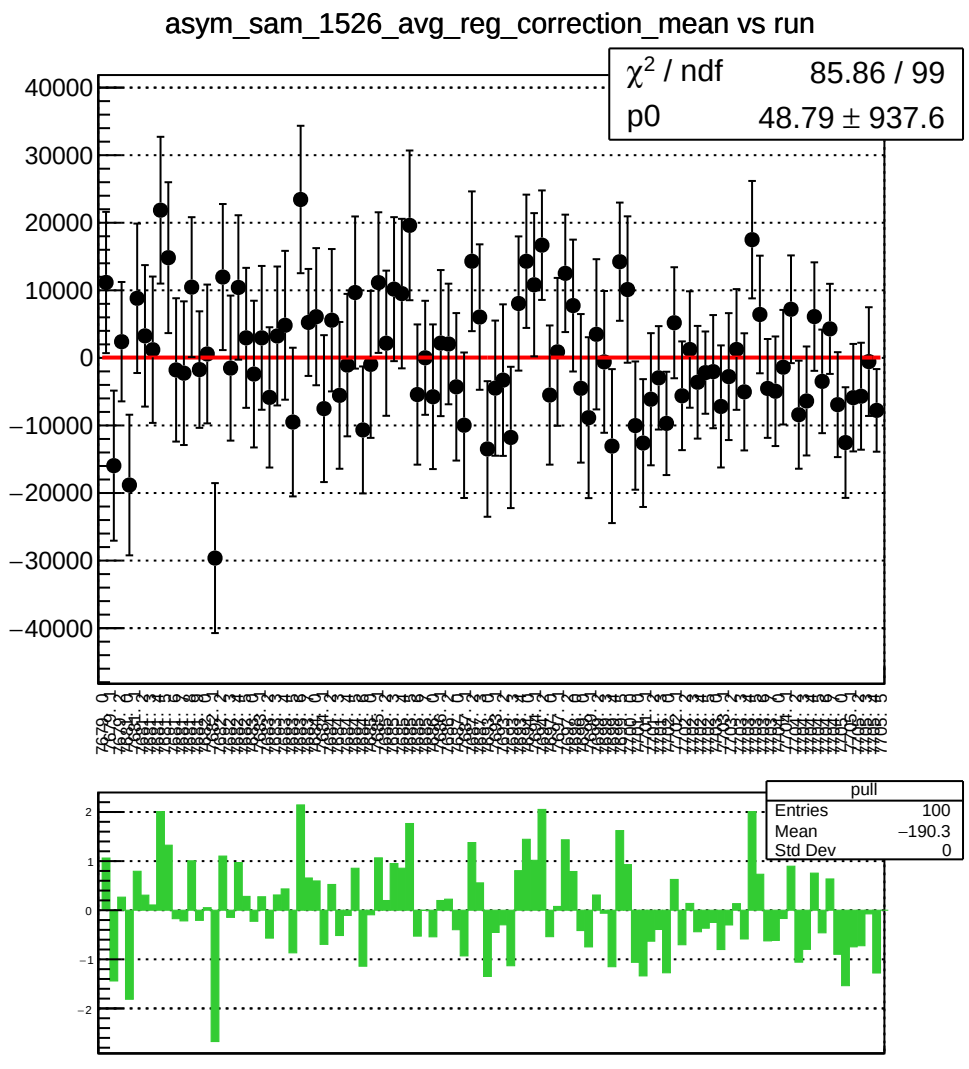

pull1D
Entries 100
Mean −0.00754
Std Dev 1.002

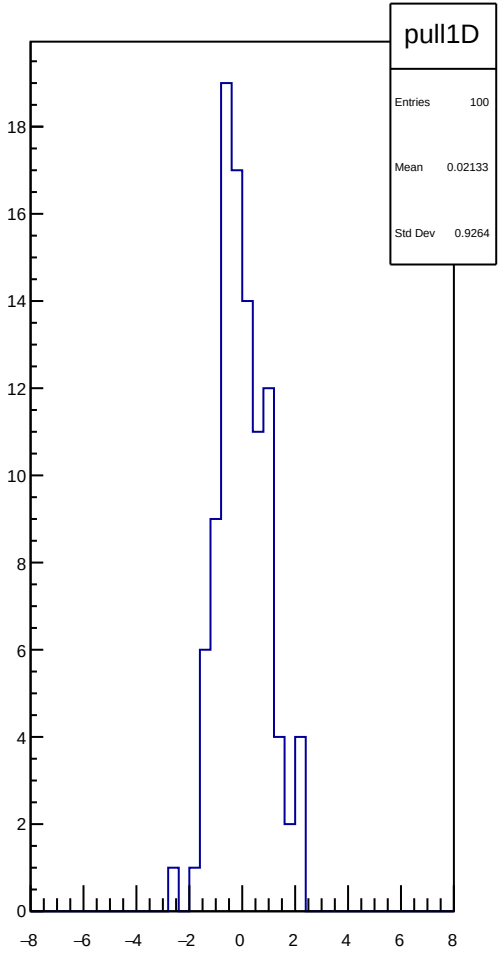

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.617e+05 / 99
p0 7.454e−11 ± 6.911e−14
1
0.8
0.6
0.4
0.2

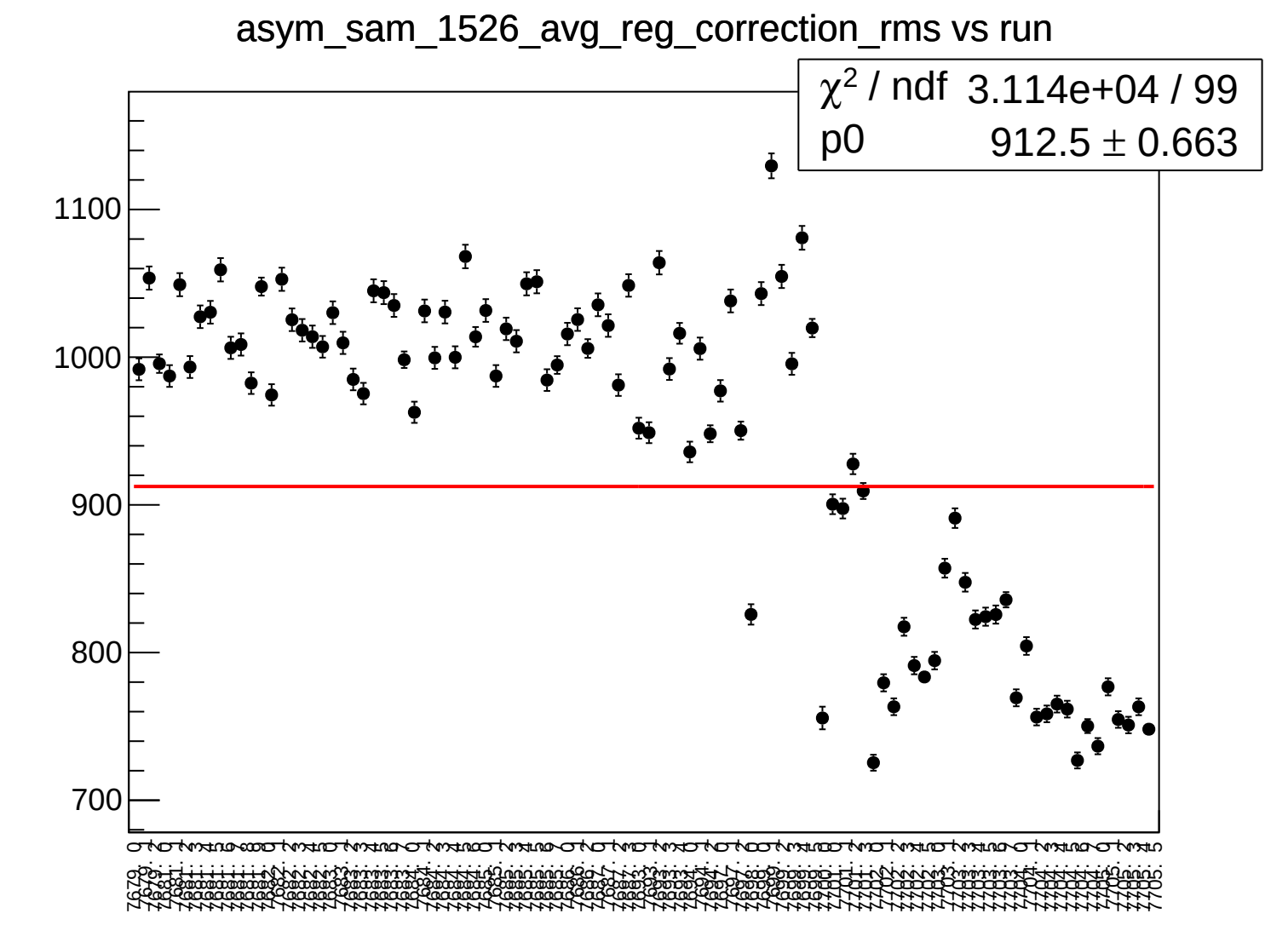

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 103.3 / 99
p0 −39.13 ± 117.7
4000
2000
0
−2000
−4000
pull
Entries 100
Mean 165.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

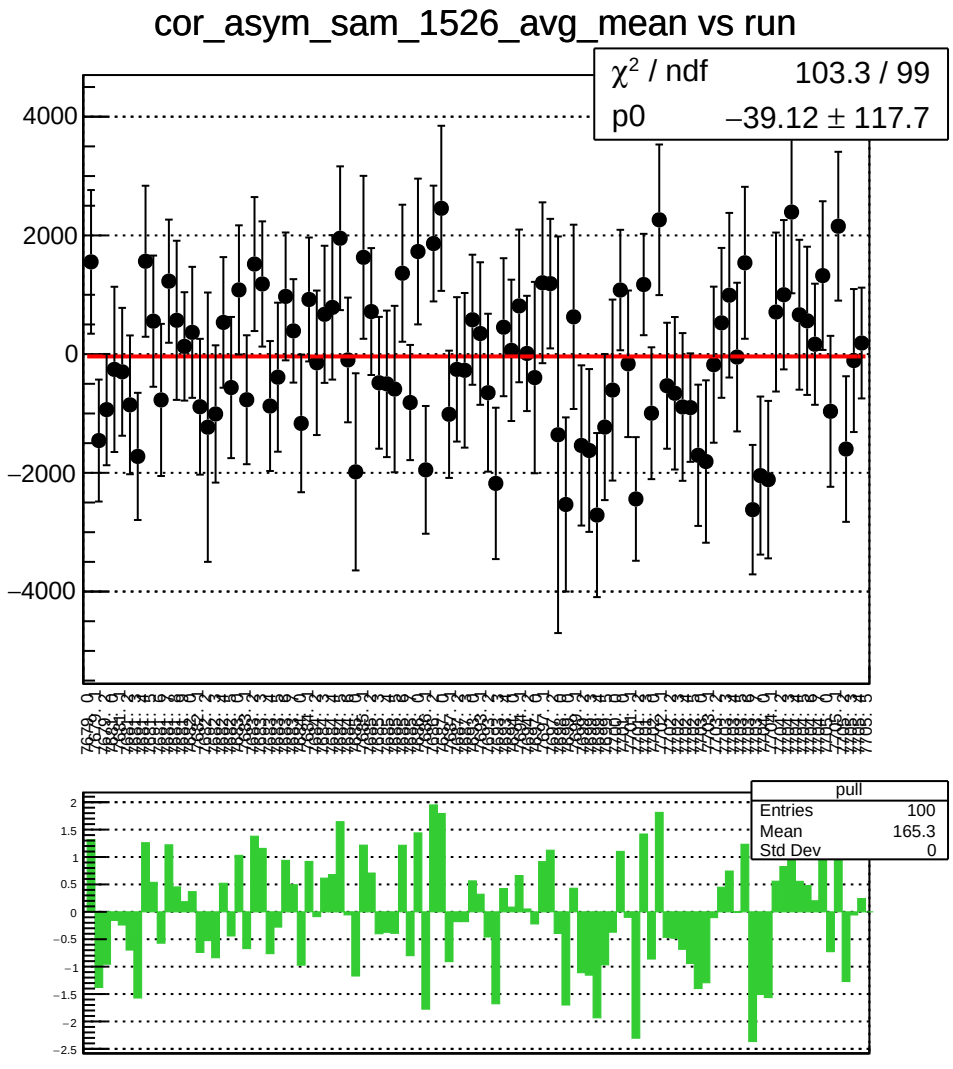

pull1D
Entries 100
Mean −0.01387
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

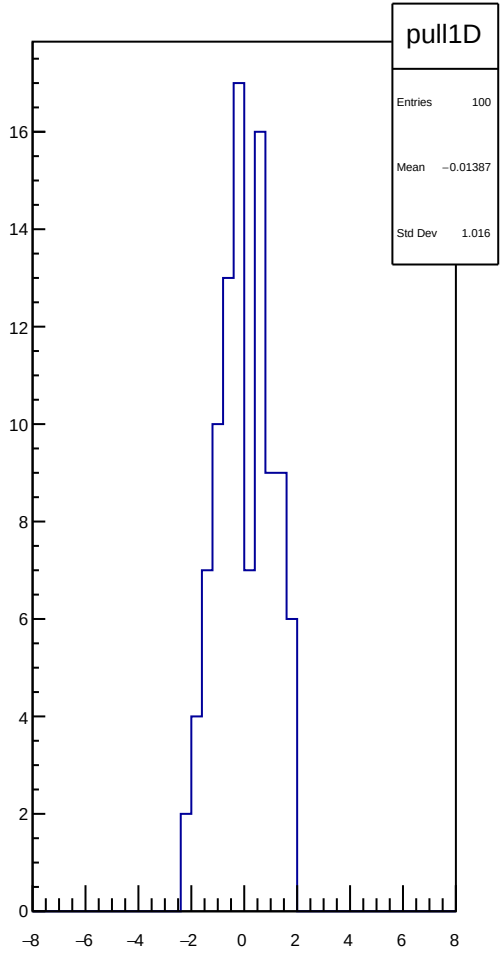

reg_asym_sam_1526_avg_rms vs run
χ^2 / ndf 2.68e+04 / 99
p0 114.7 ± 0.08323
300
250
200
150
100

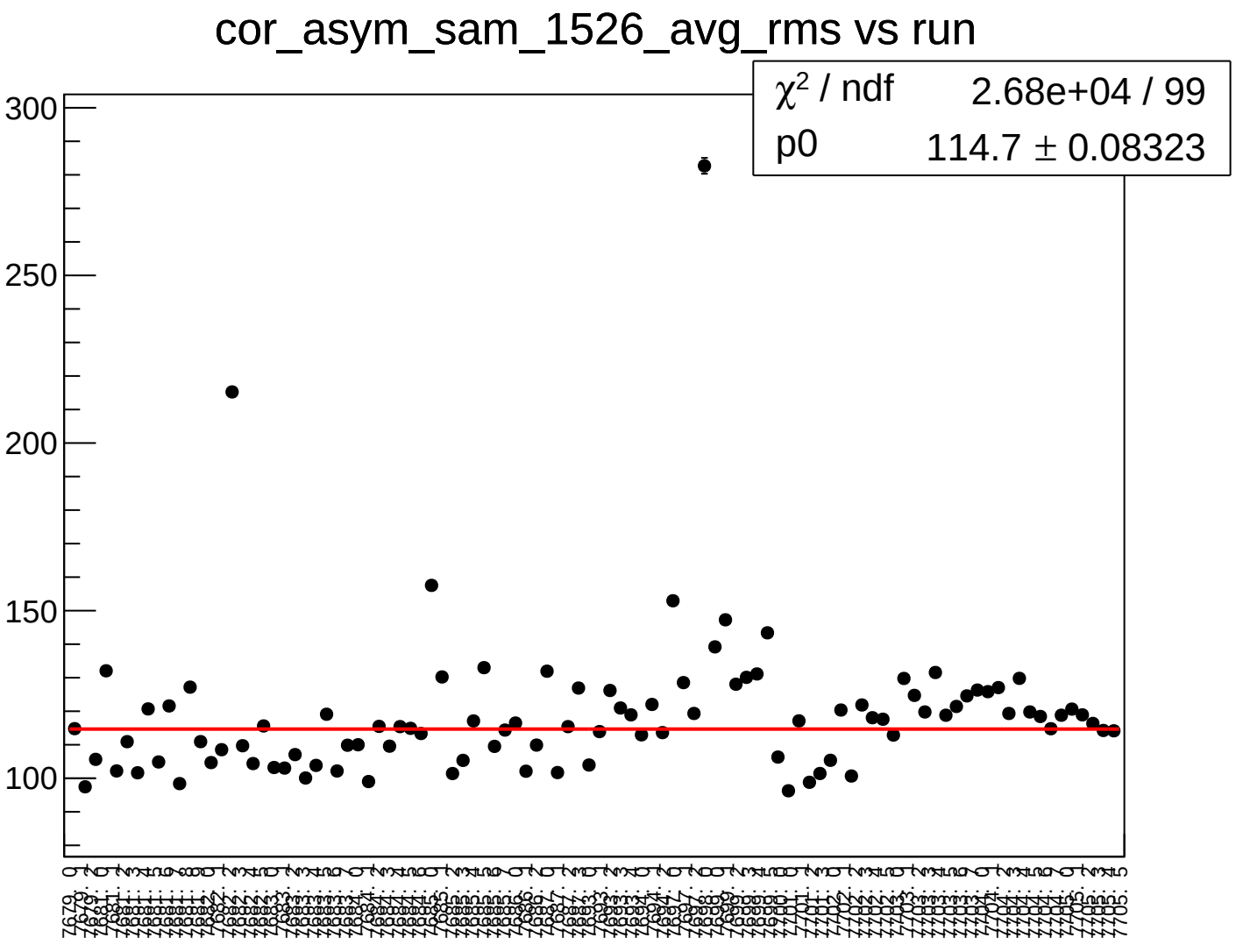

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 85.86 / 99
p0 48.79 ± 937.6
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 100
Mean −190.3
Std Dev 0
2
1
0
−1
−2

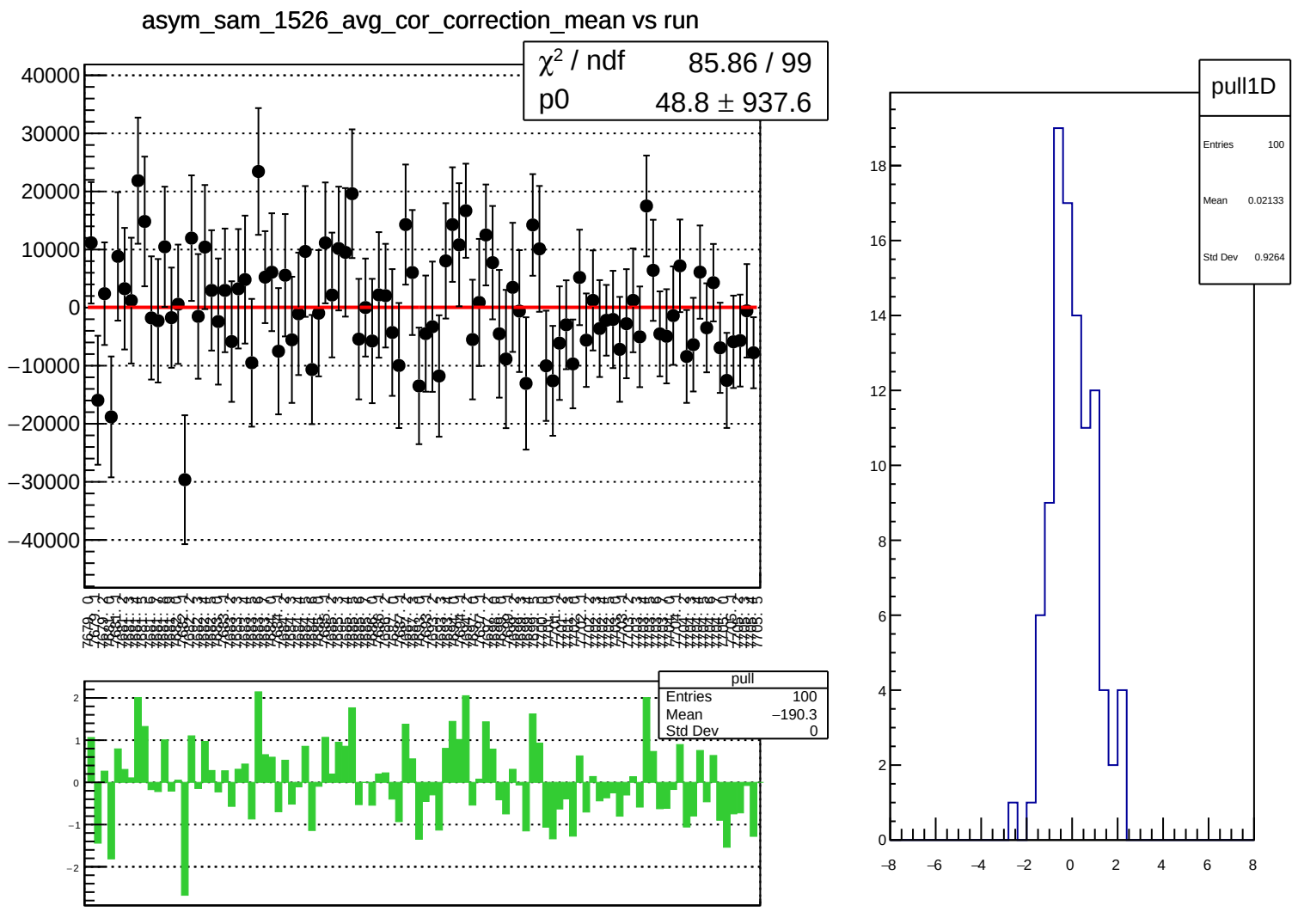

pull1D
Entries 100
Mean 0.02133
Std Dev 0.9264
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

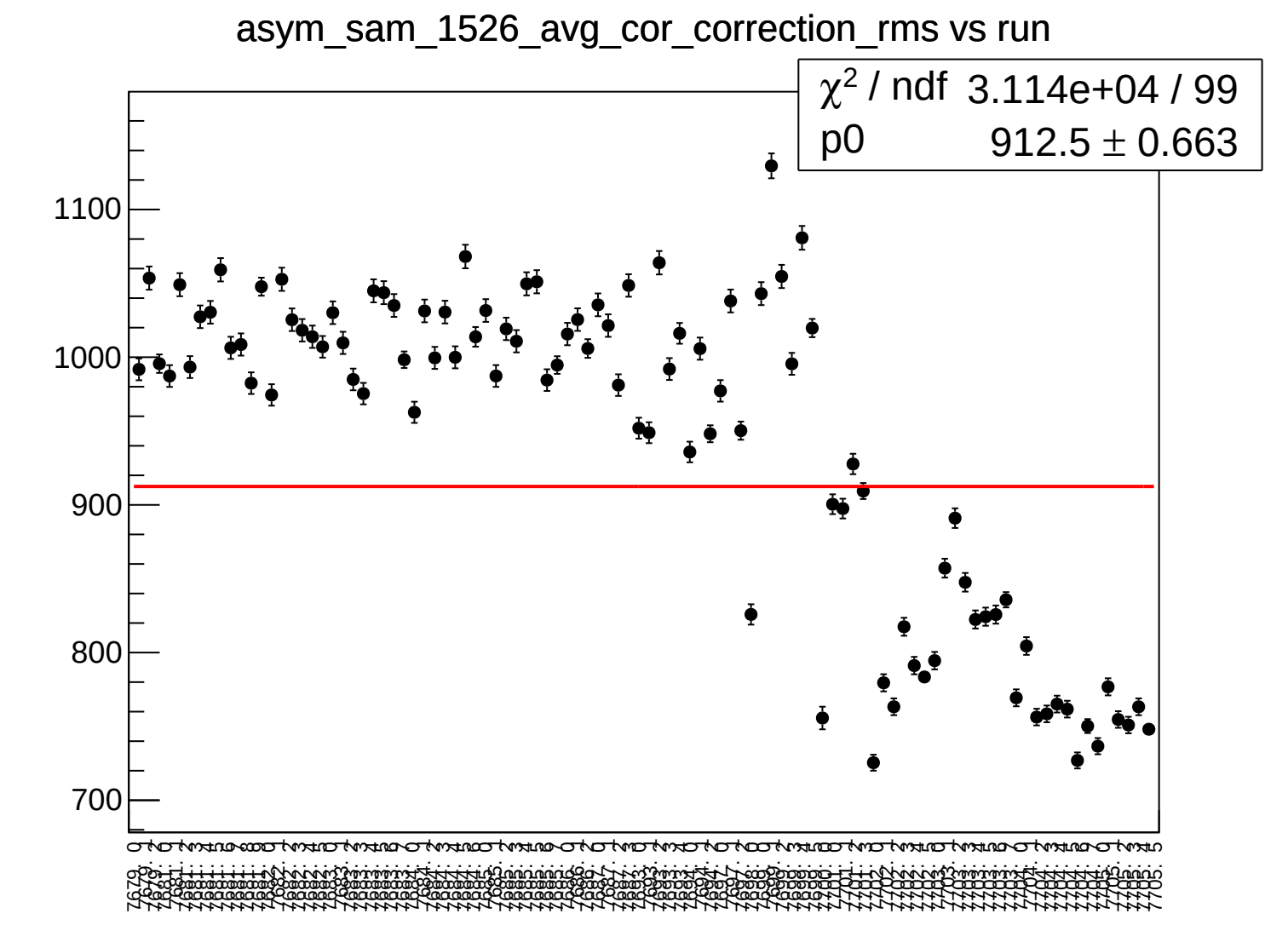

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 3.114e+04 / 99
p0 912.5 ± 0.663
1100
1000
900
800
700

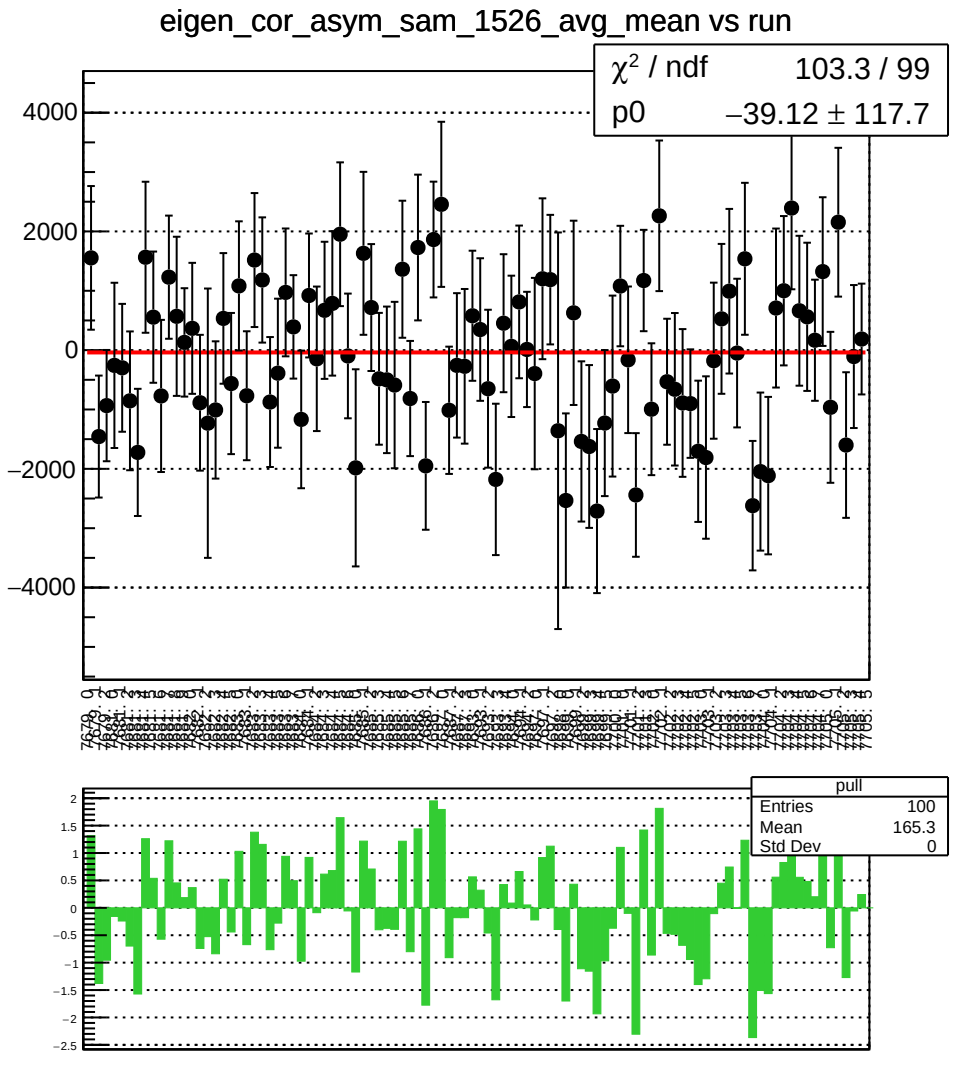

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 103.3 / 99
p0 −39.12 ± 117.7
4000
2000
0
−2000
−4000
pull
Entries 100
Mean 165.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

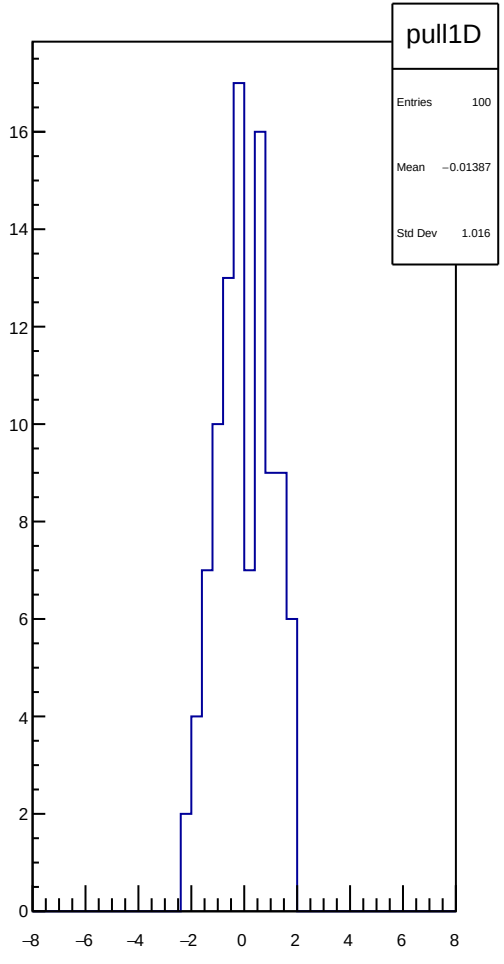

pull1D
Entries 100
Mean −0.01387
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

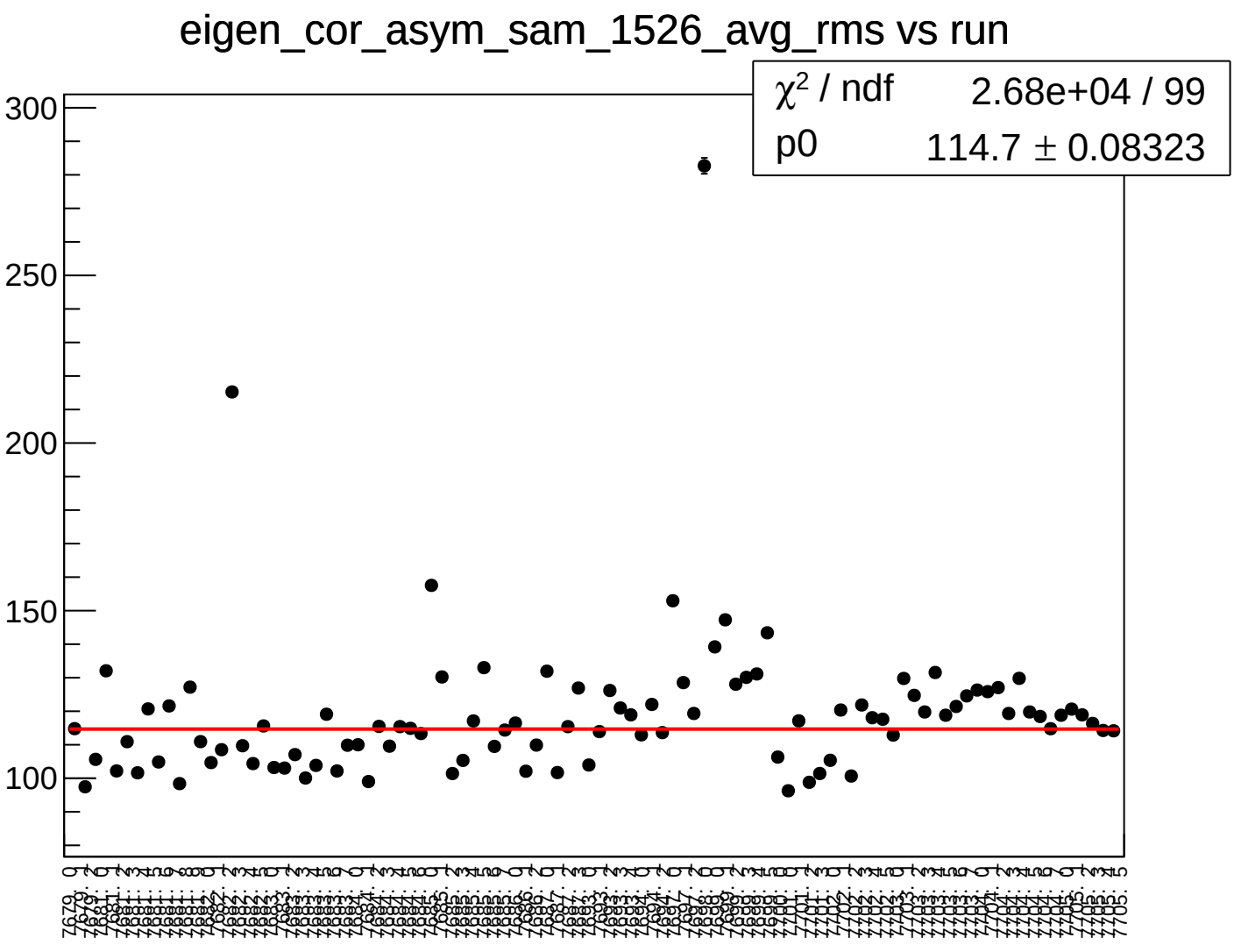

cor_asym_sam_1526_avg_rms vs run
χ^2 / ndf 2.68e+04 / 99
p0 114.7 ± 0.08323
300
250
200
150
100

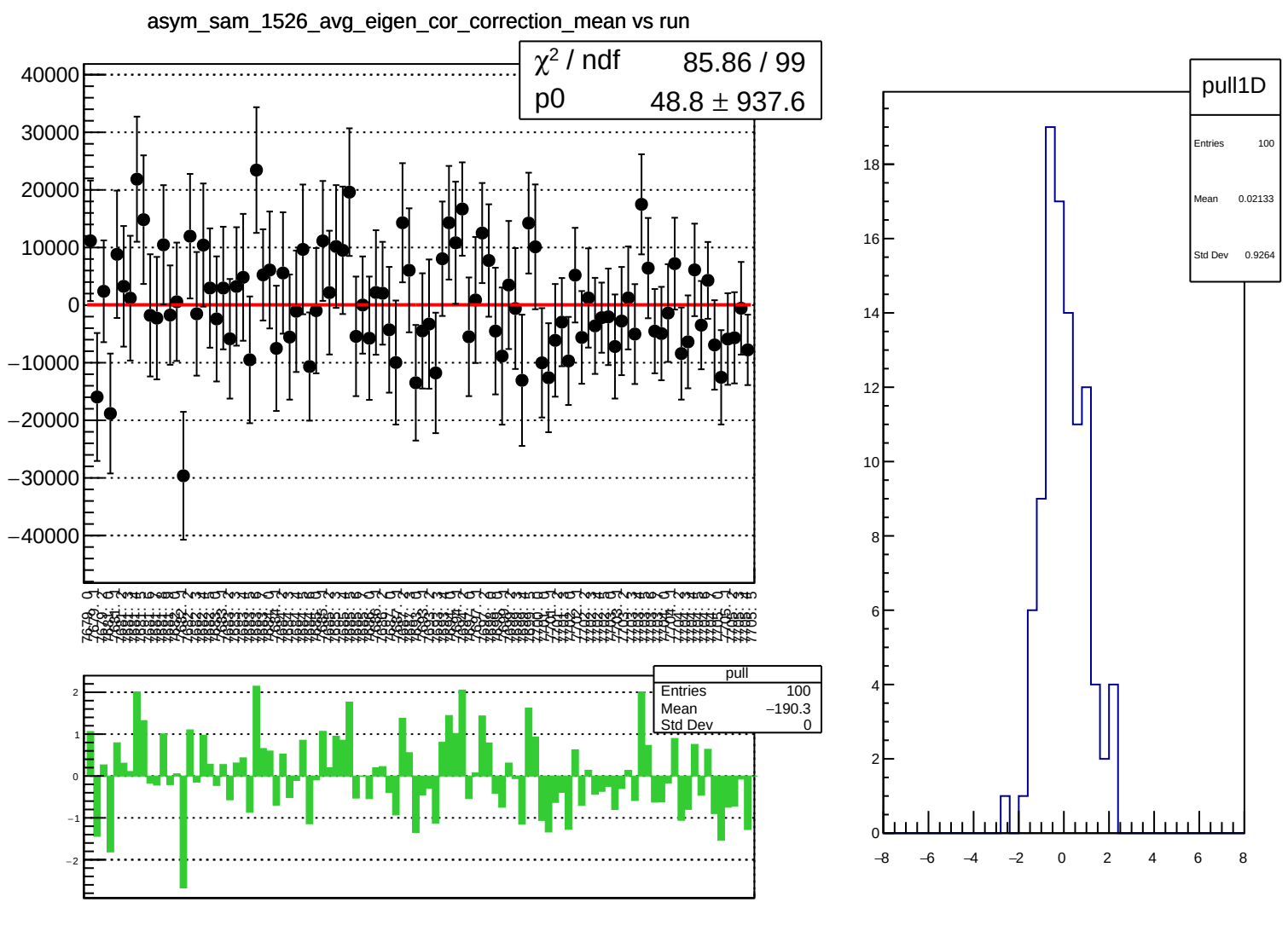

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 85.86 / 99
p0 48.8 ± 937.6
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 100
Mean −190.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.02133
Std Dev 0.9264
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

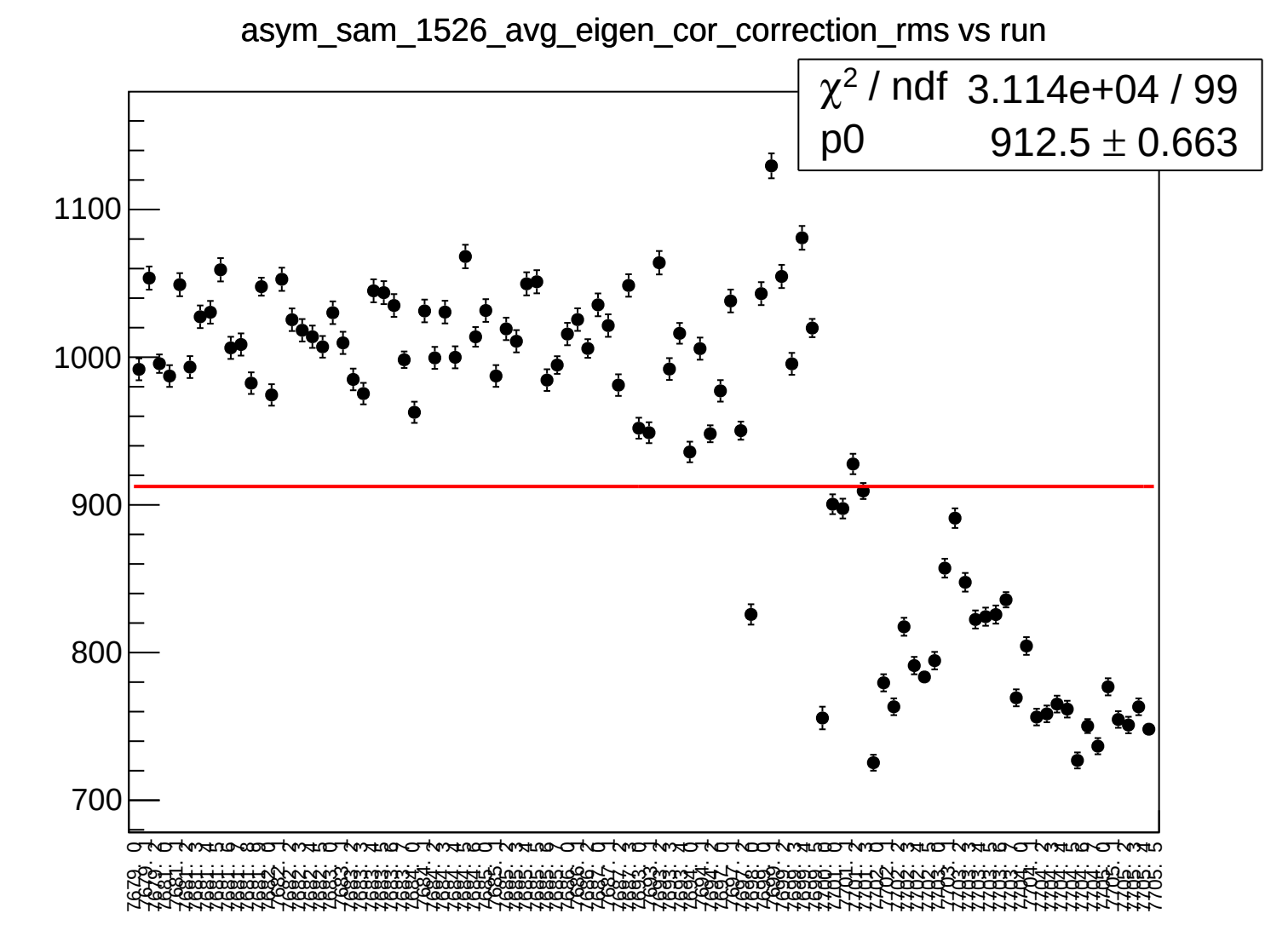

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 3.114e+04 / 99
p0 912.5 ± 0.663
1100
1000
900
800
700

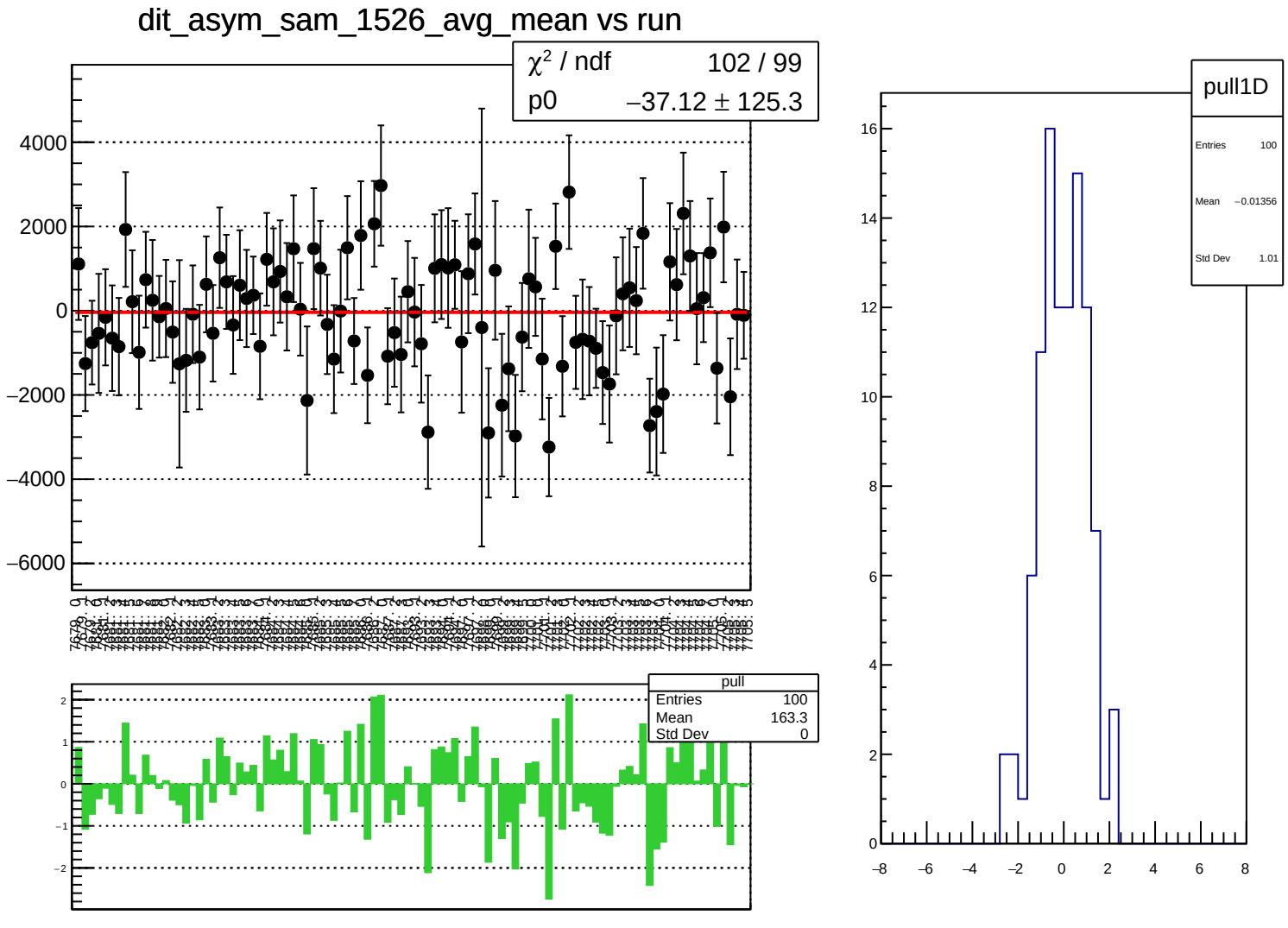

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 103.3 / 99
p0 −39.12 ± 117.7
4000
2000
0
−2000
−4000
pull
Entries 100
Mean 165.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

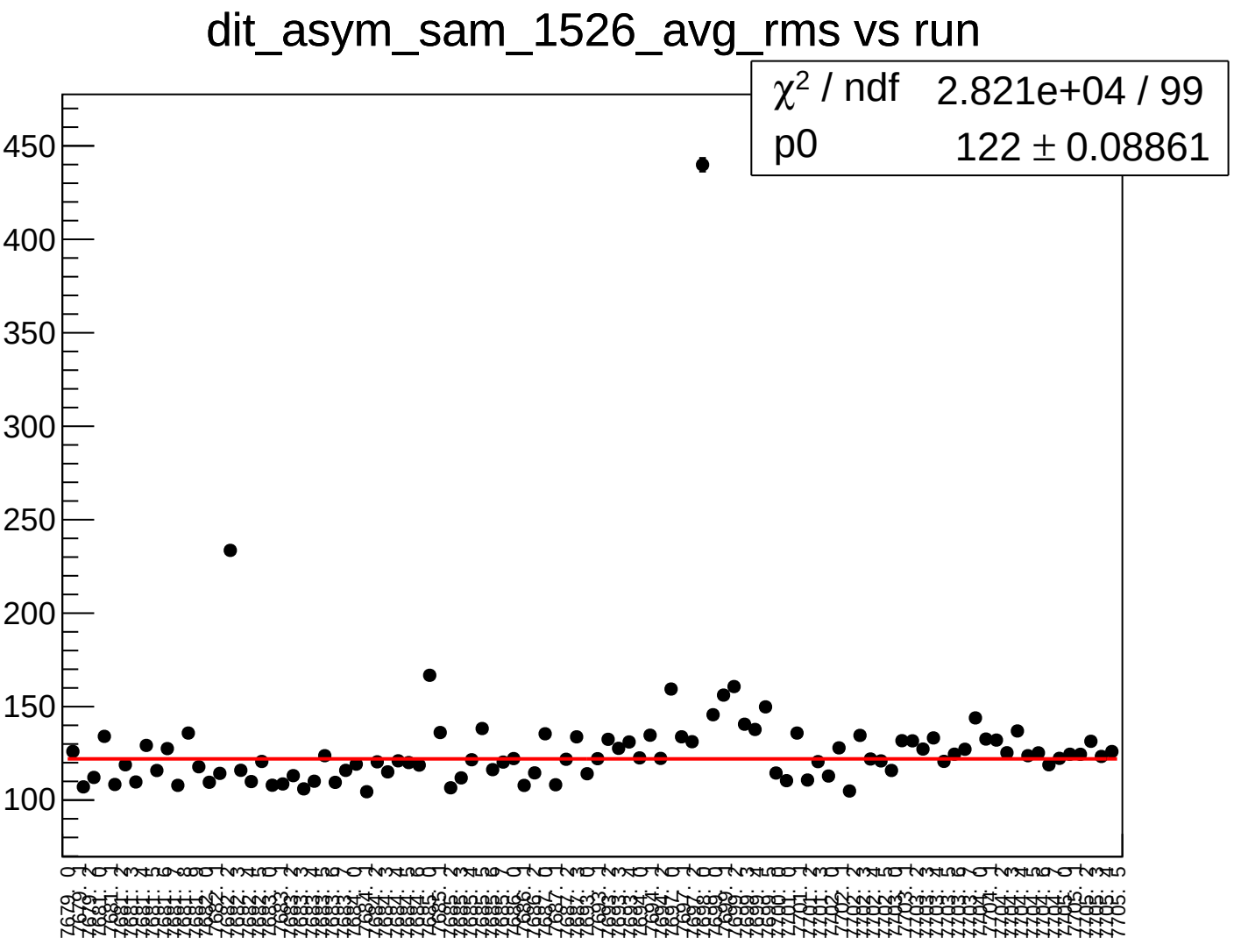

pull1D
Entries 100
Mean −0.01387
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

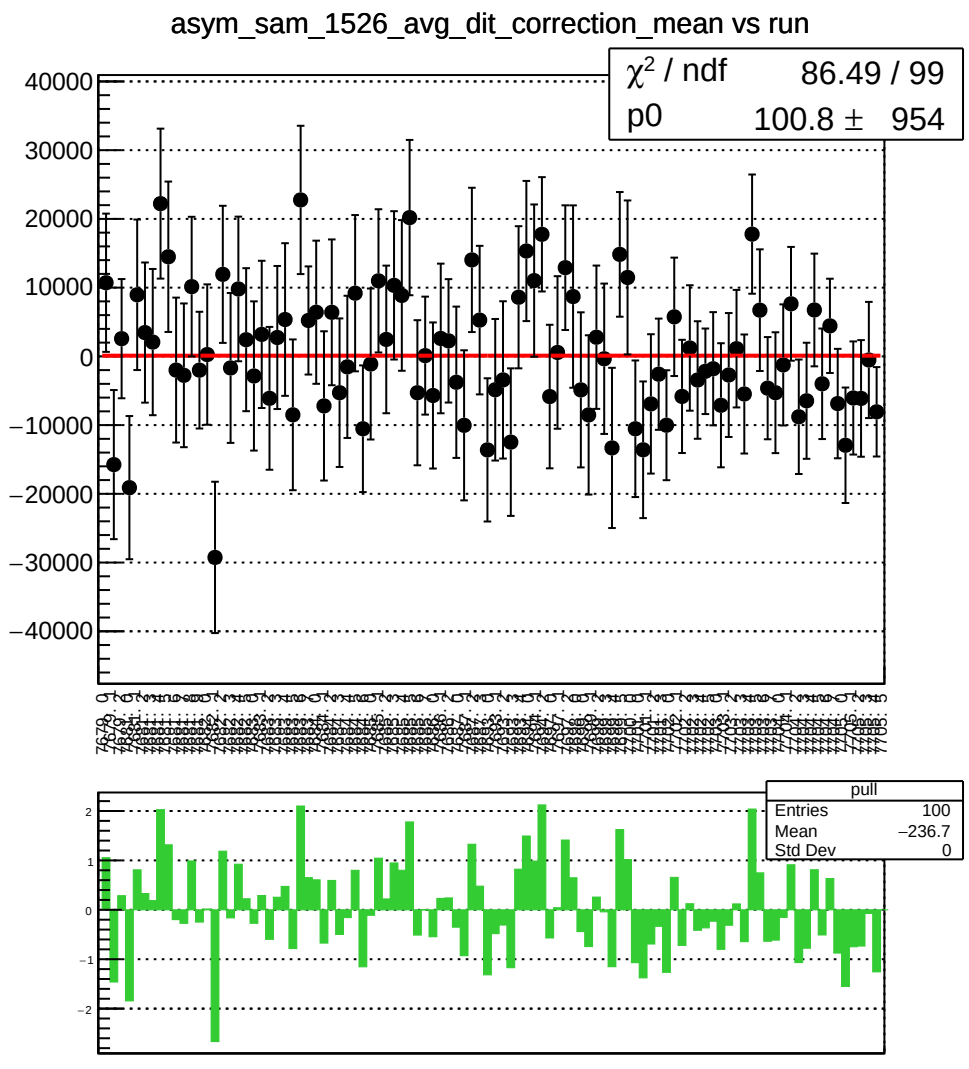

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 2.68e+04 / 99
p0 114.7 ± 0.08323
300
250
200
150
100

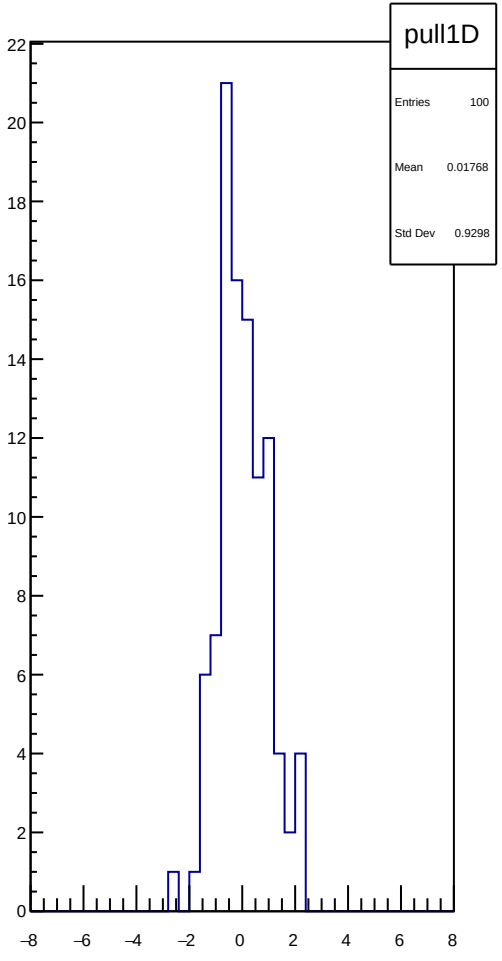

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 85.86 / 99
p0 48.8 ± 937.6
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 100
Mean −190.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.02133
Std Dev 0.9264
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

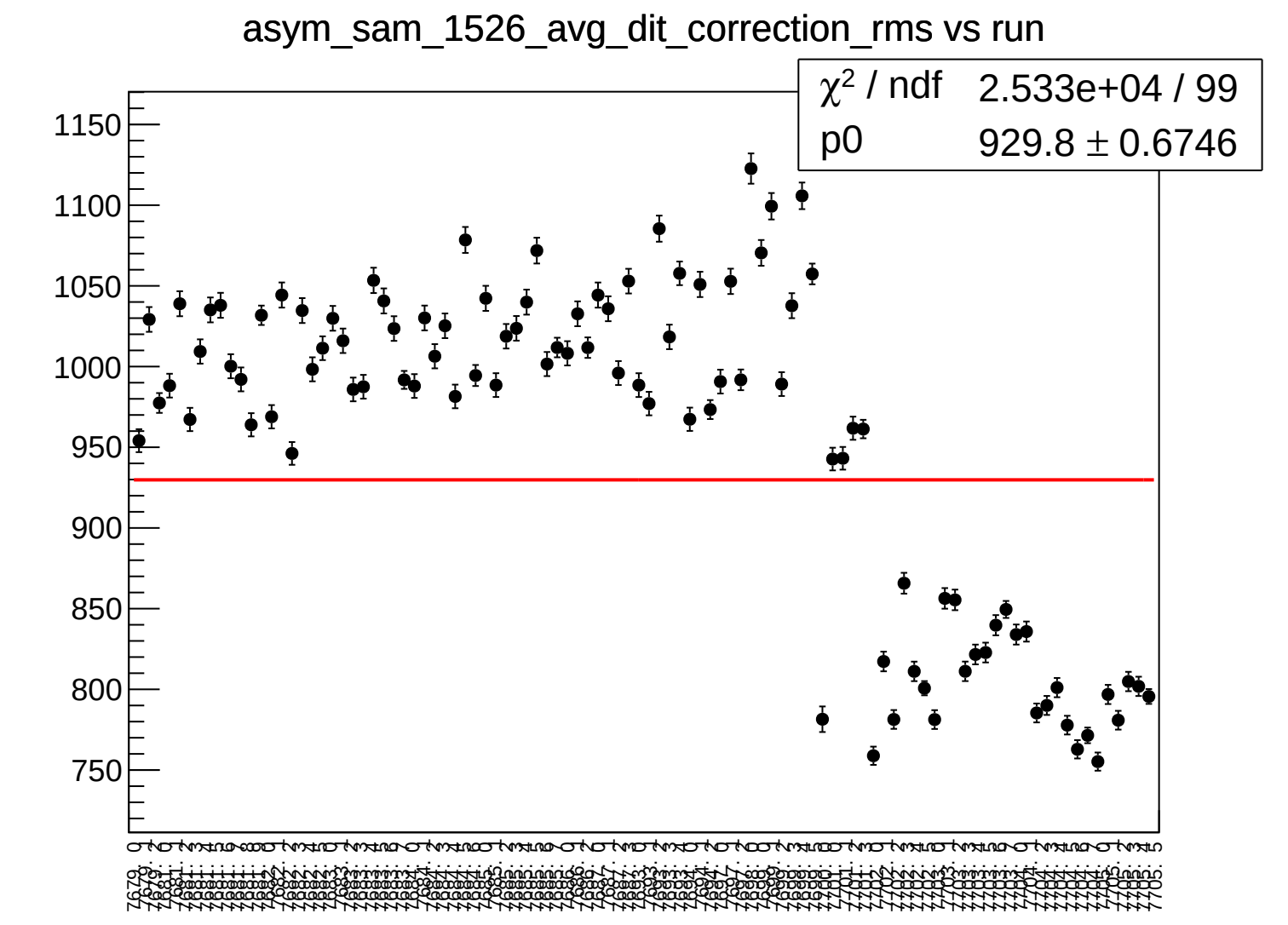

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.114e+04 / 99
p0 912.5 ± 0.663
1100
1000
900
800
700

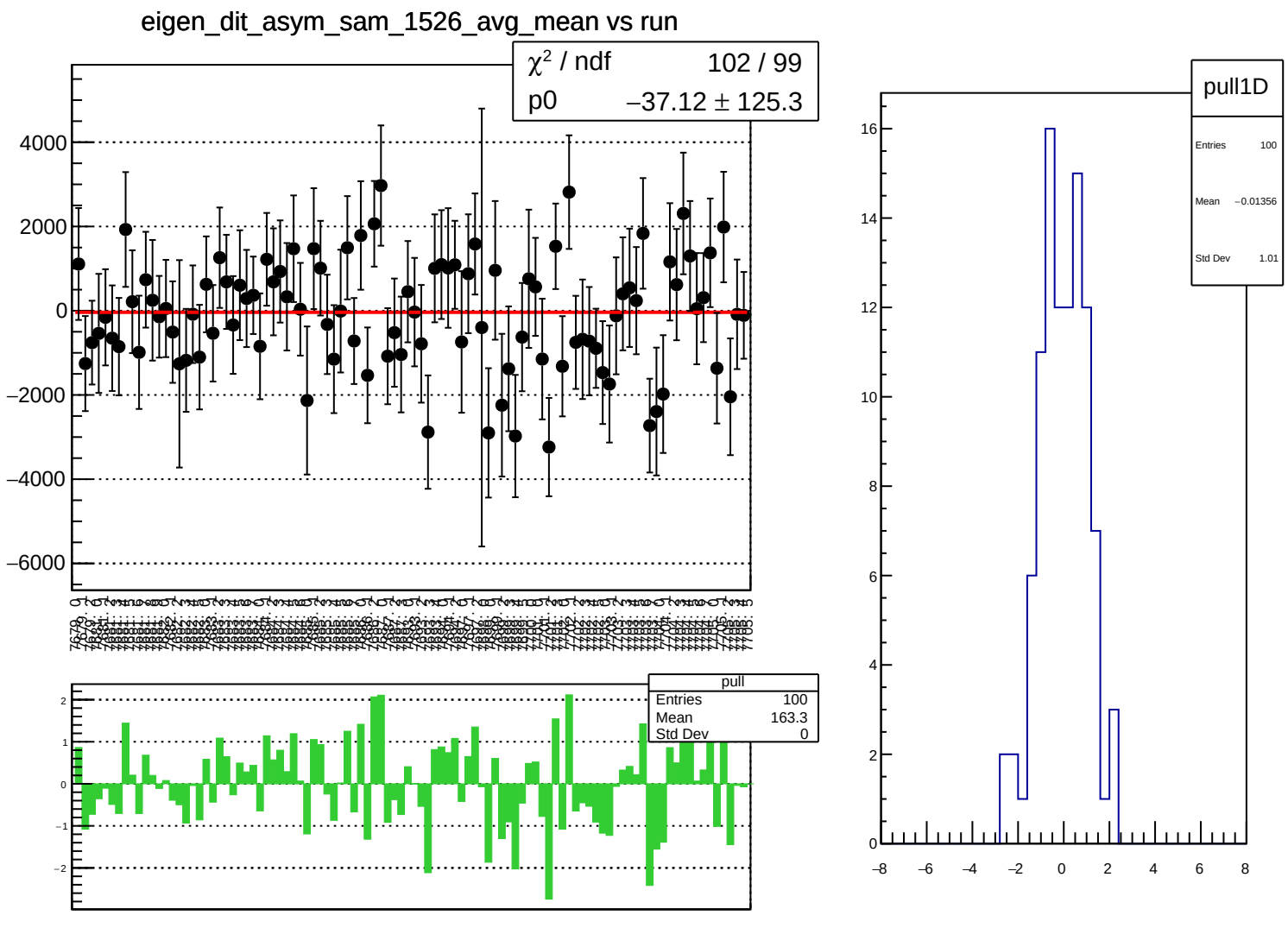

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 102 / 99
p0 −37.12 ± 125.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 163.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.01356
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

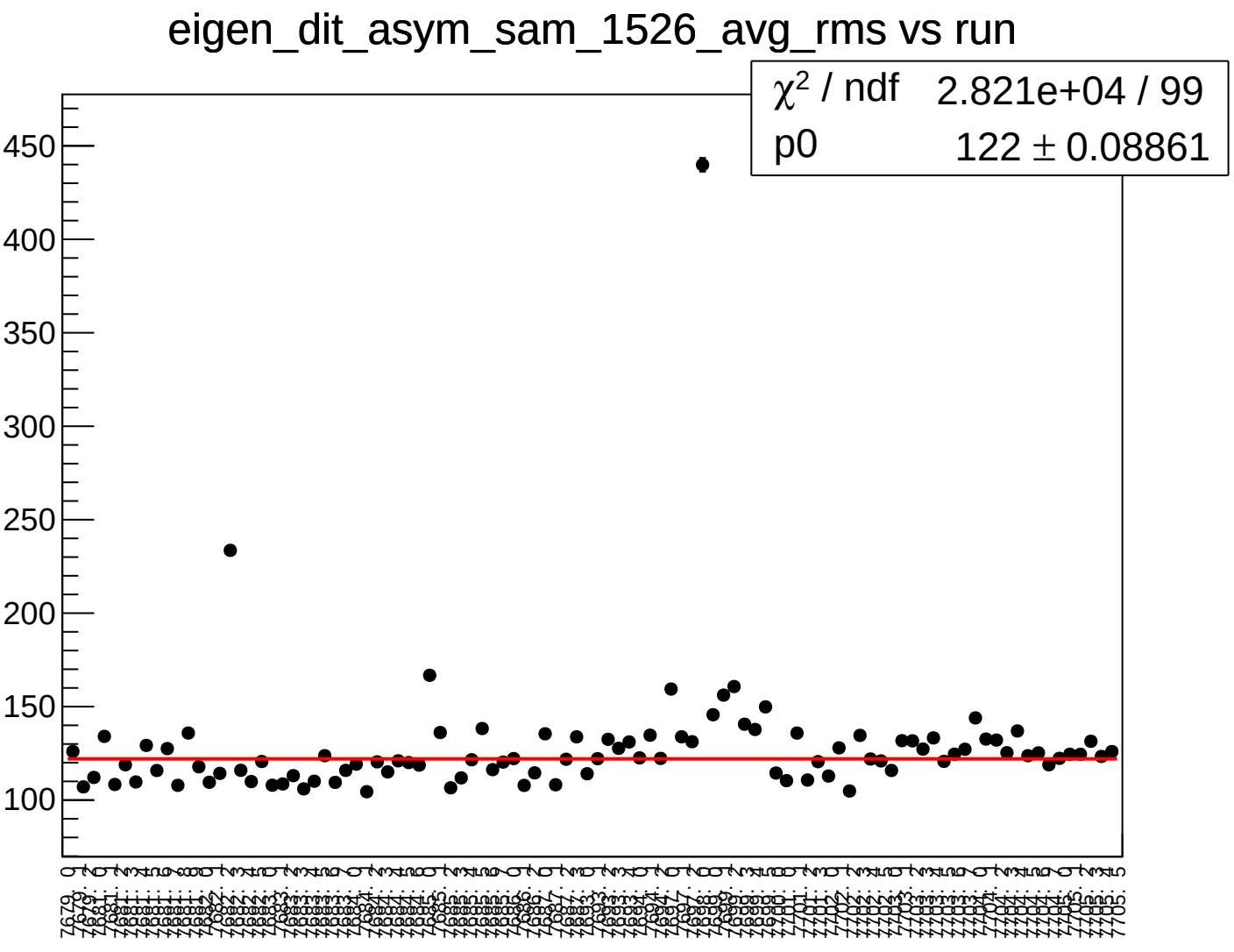

dit_asym_sam_1526_avg_rms vs run
χ^2 / ndf 2.821e+04 / 99
p0 122 ± 0.08861
450
400
350
300
250
200
150
100

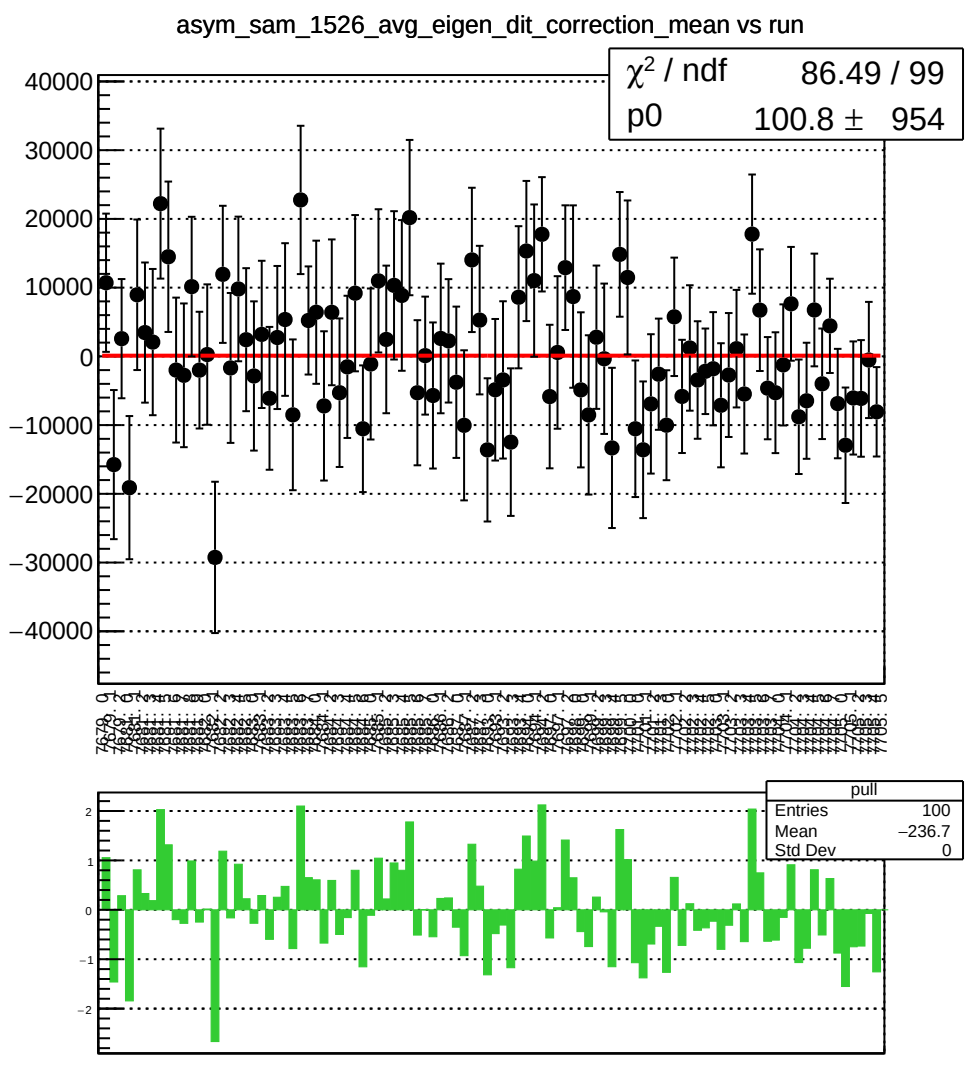

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 86.49 / 99
p0 100.8 ± 954
pull
Entries 100
Mean −236.7
Std Dev 0

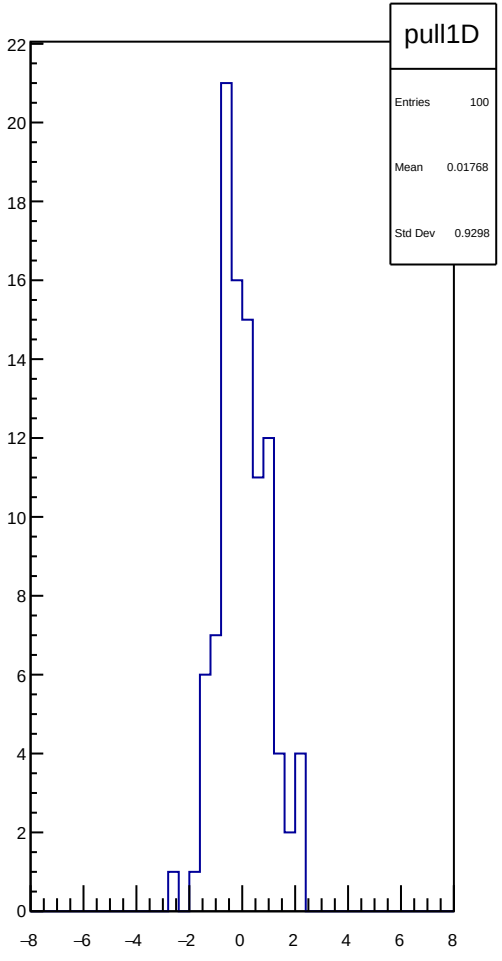

pull1D
Entries 100
Mean 0.01768
Std Dev 0.9298

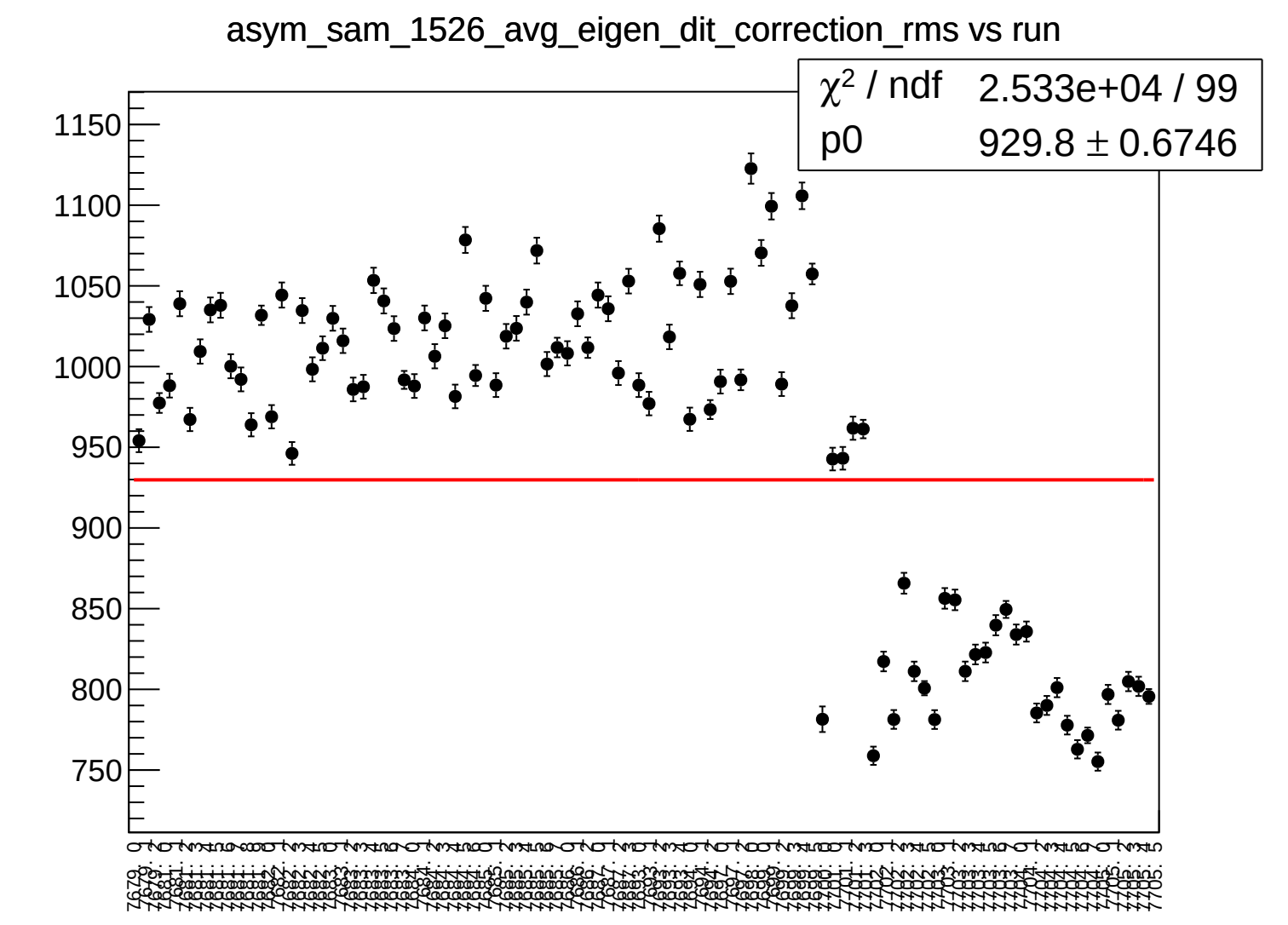

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 2.533e+04 / 99
p0 929.8 ± 0.6746
1150
1100
1050
1000
950
900
850
800
750

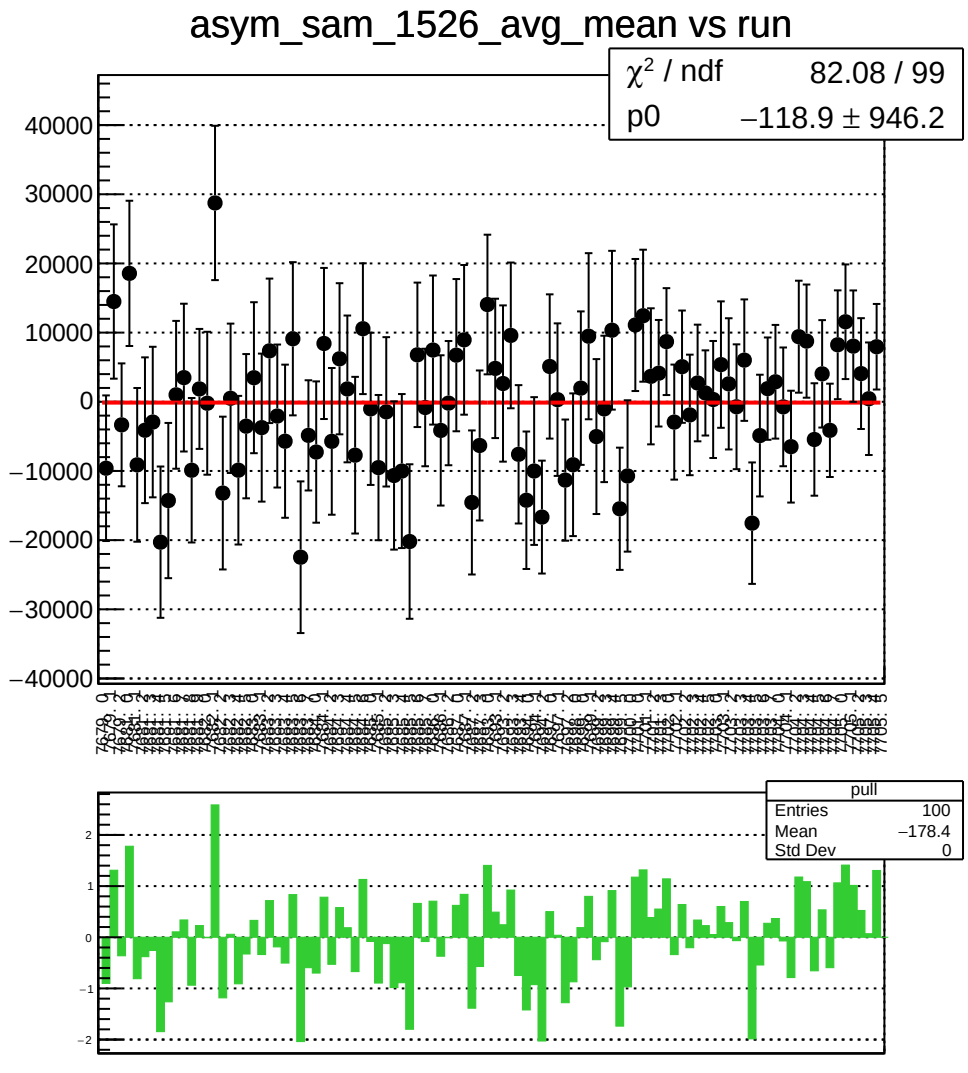

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 102 / 99
p0 −37.12 ± 125.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 163.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.01356
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

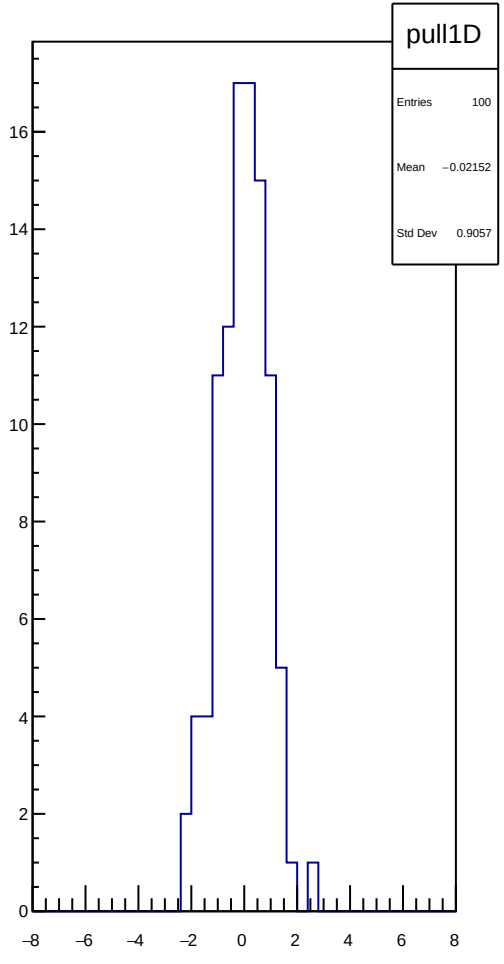

eigen_dit_asym_sam_1526_avg_rms vs run
χ^2 / ndf 2.821e+04 / 99
p0 122 ± 0.08861
450
400
350
300
250
200
150
100

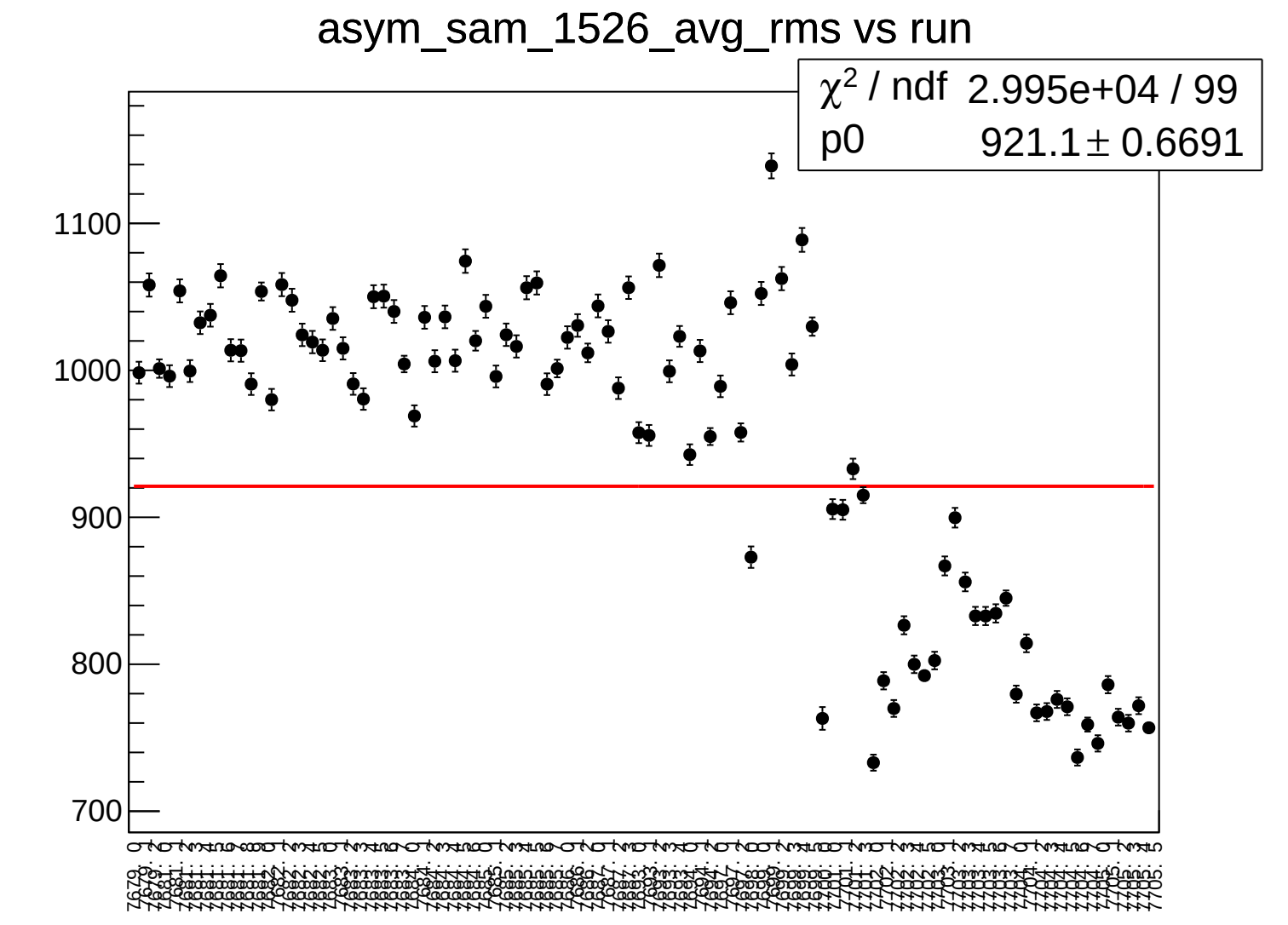

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 86.49 / 99
p0 100.8 ± 954
pull
Entries 100
Mean −236.7
Std Dev 0

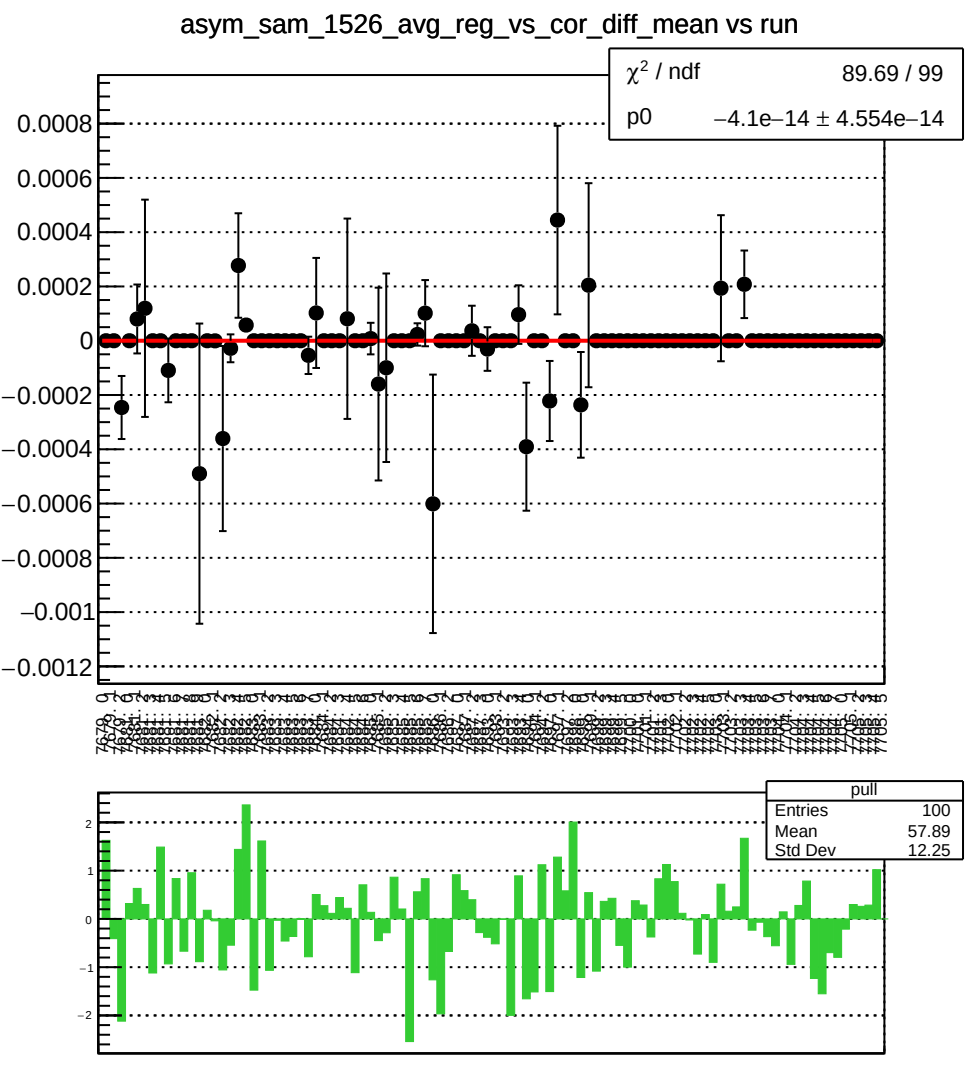

pull1D
Entries 100
Mean 0.01768
Std Dev 0.9298

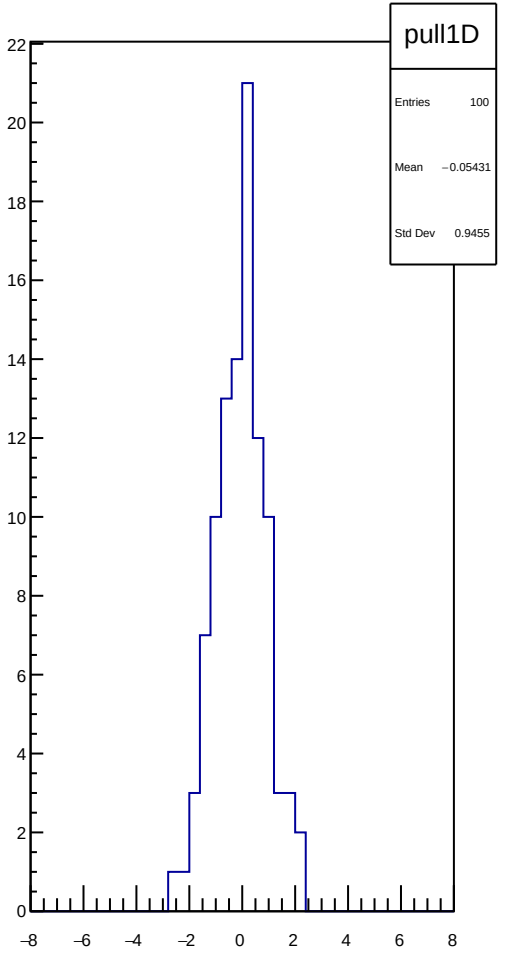

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.533e+04 / 99
p0 929.8 ± 0.6746
1150
1100
1050
1000
950
900
850
800
750

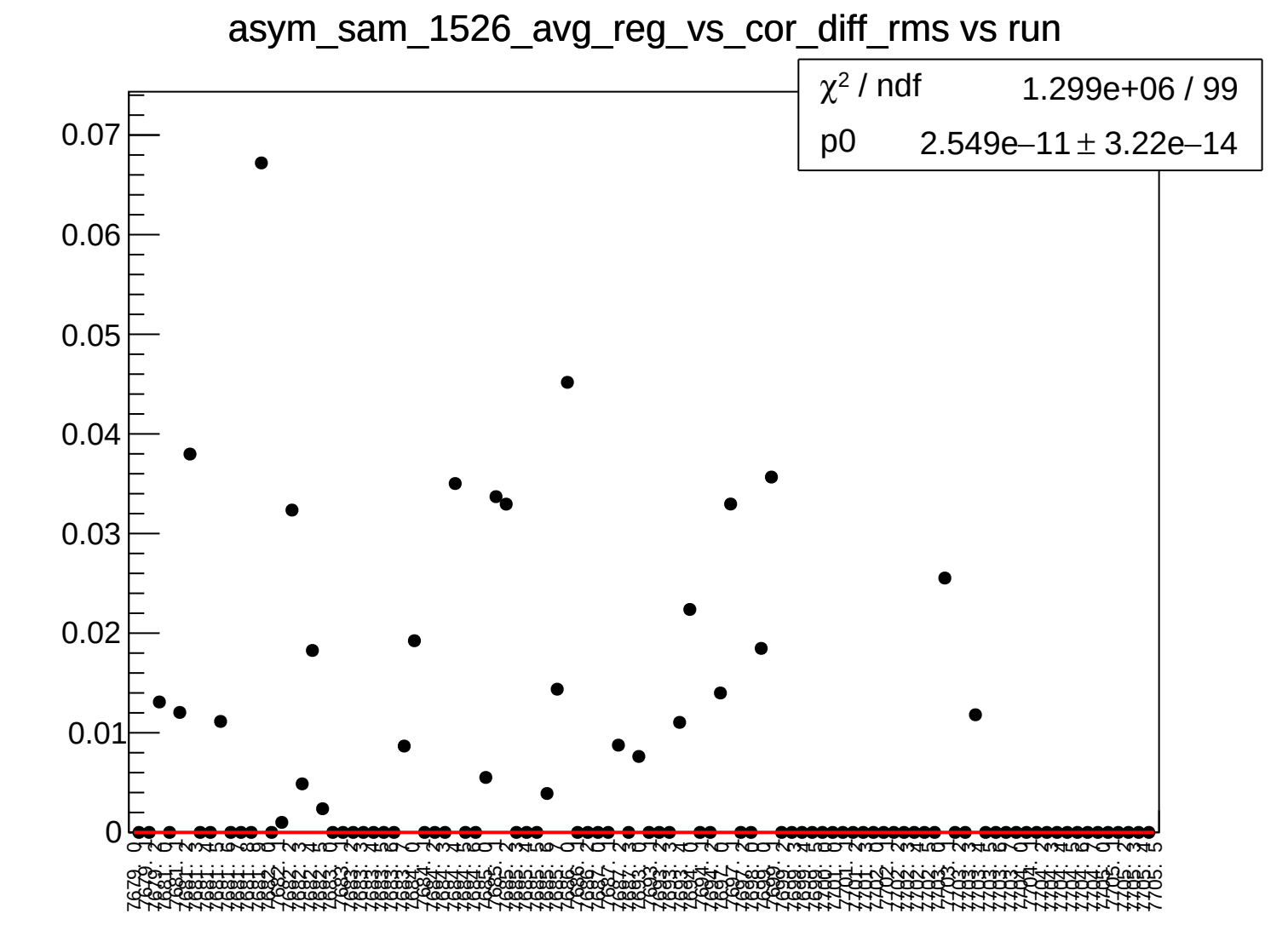

asym_sam_1526_avg_mean vs run
χ² / ndf 82.08 / 99
p0 −118.9 ± 946.2
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 100
Mean −178.4
Std Dev 0
2
1
0
−1
−2

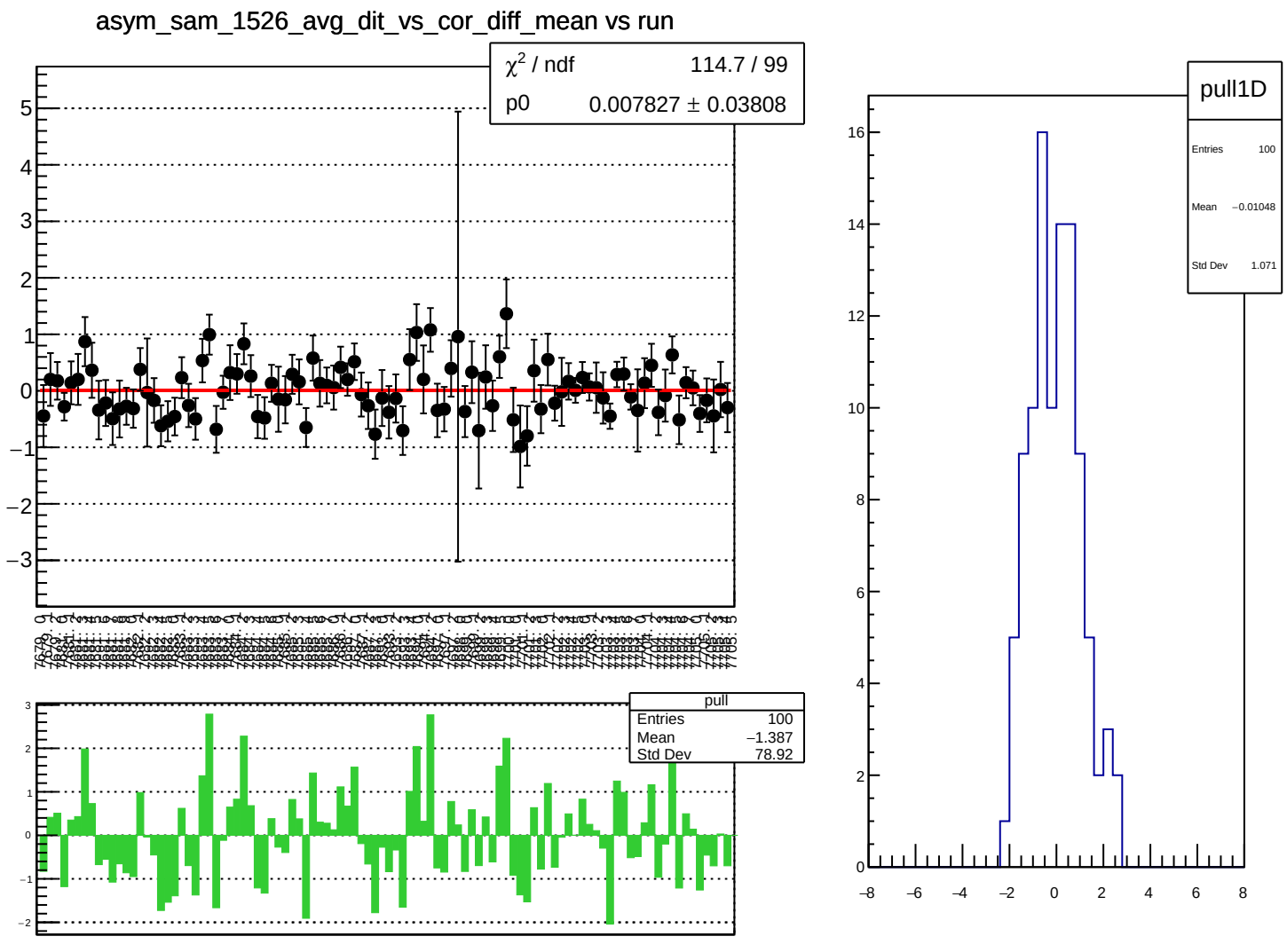

pull1D
Entries 100
Mean −0.02152
Std Dev 0.9057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

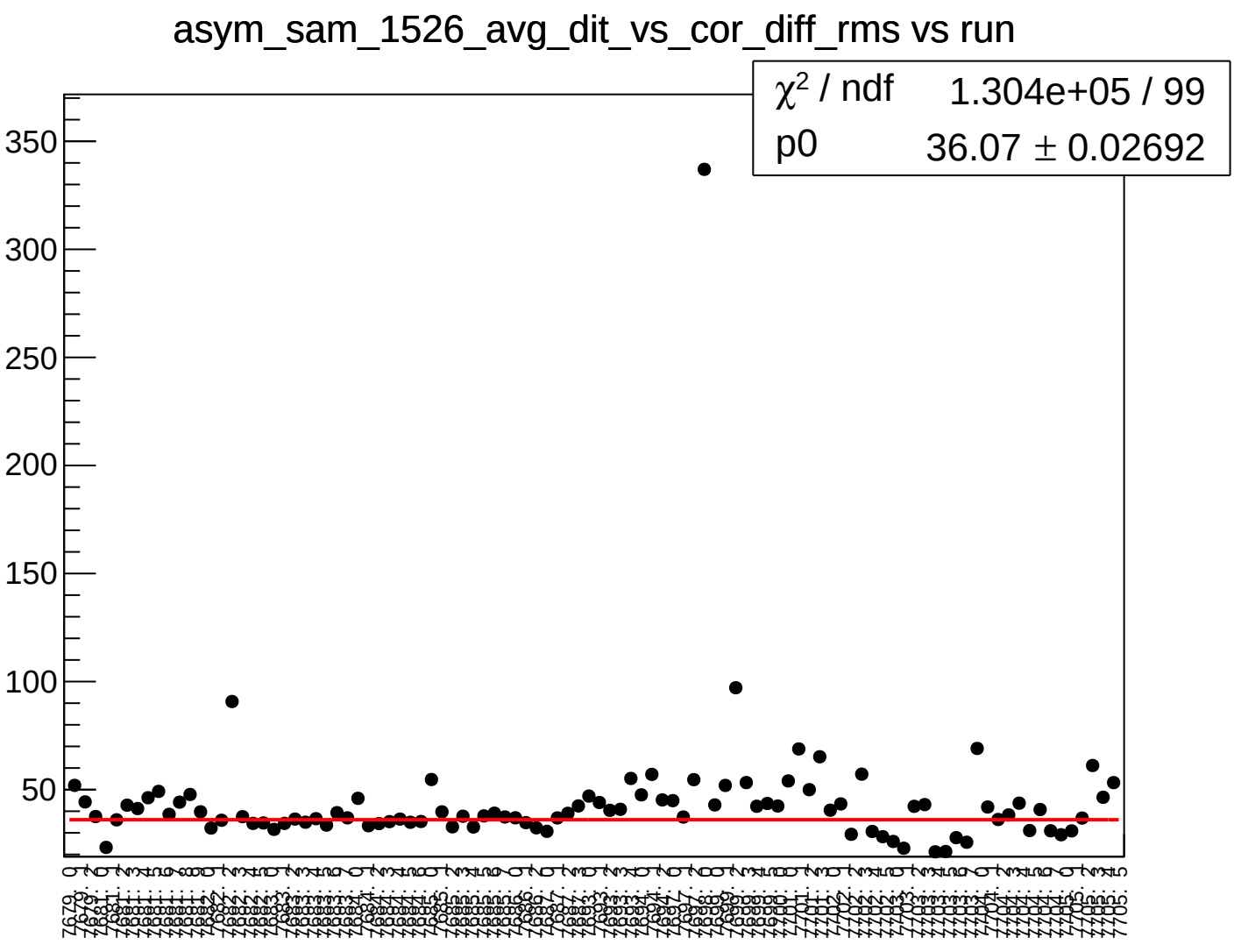

asym_sam_1526_avg_rms vs run
χ² / ndf 2.995e+04 / 99
p0 921.1 ± 0.6691
1100
1000
900
800
700

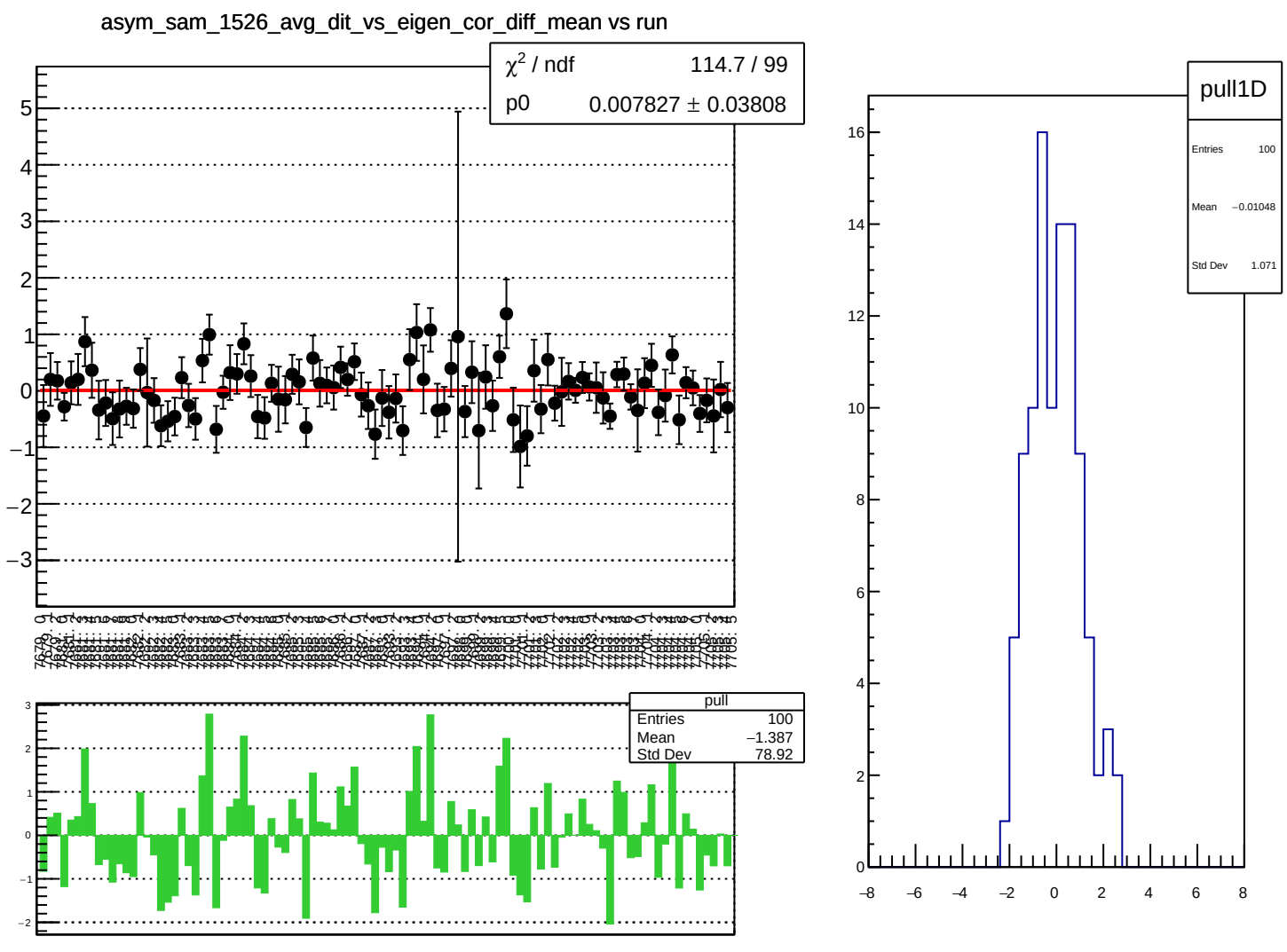

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 89.69 / 99
p0 −4.1e−14 ± 4.554e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 100
Mean 57.89
Std Dev 12.25
2
1
0
−1
−2

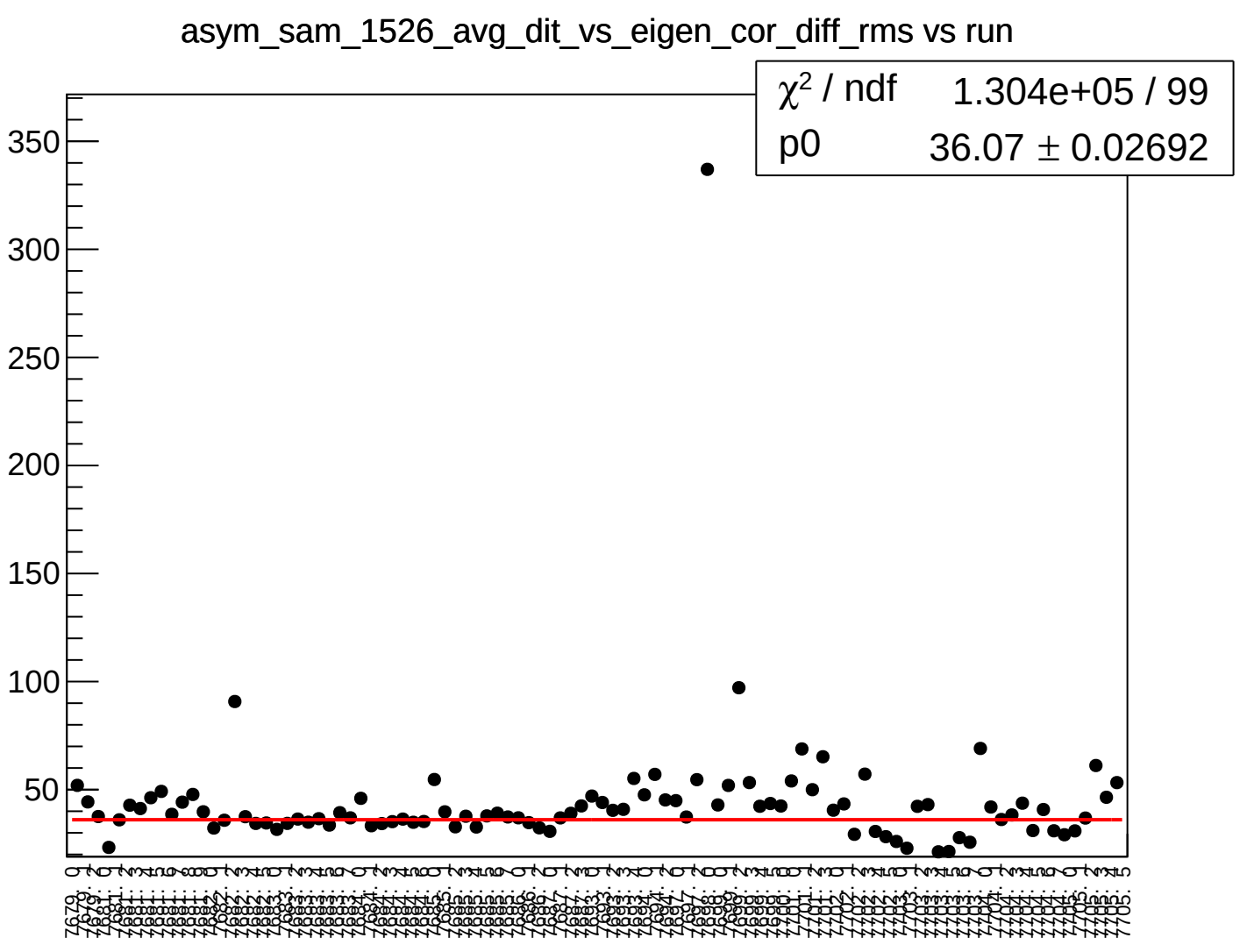

pull1D
Entries 100
Mean −0.05431
Std Dev 0.9455
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

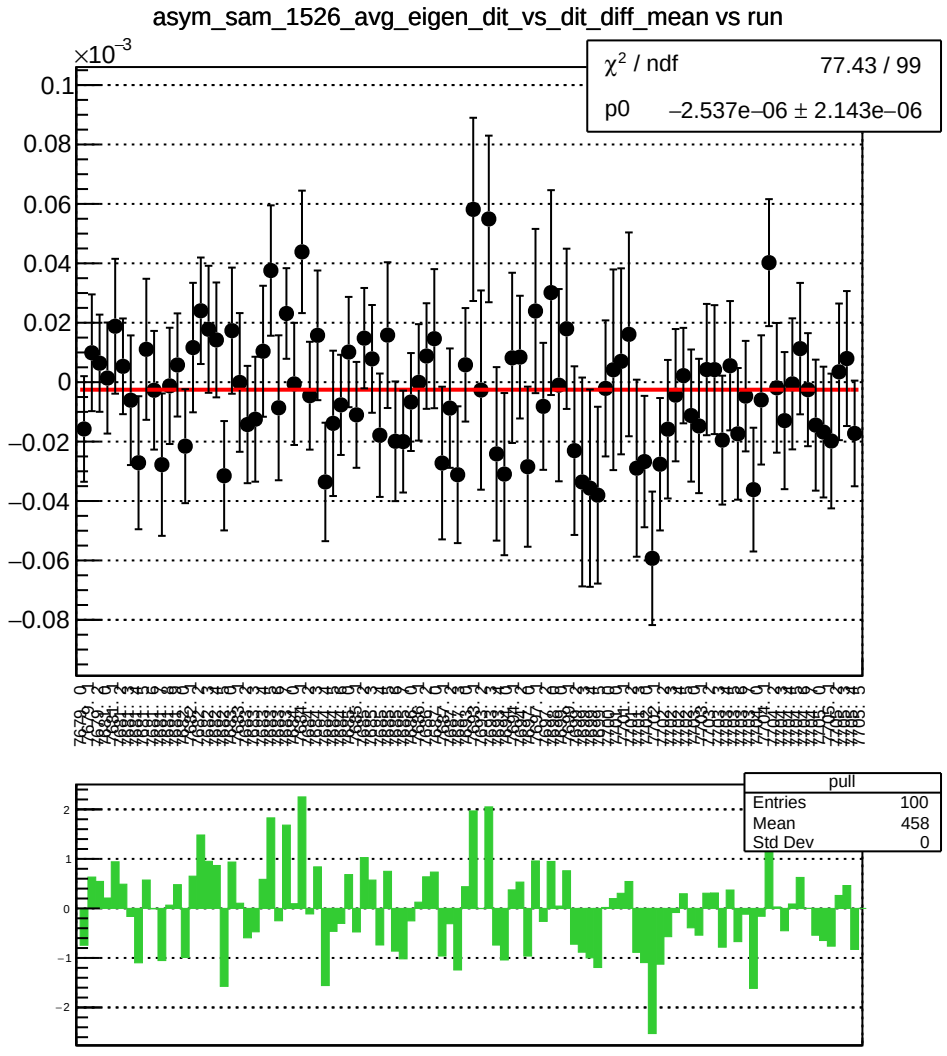

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.299e+06 / 99
p0 2.549e−11 ± 3.22e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

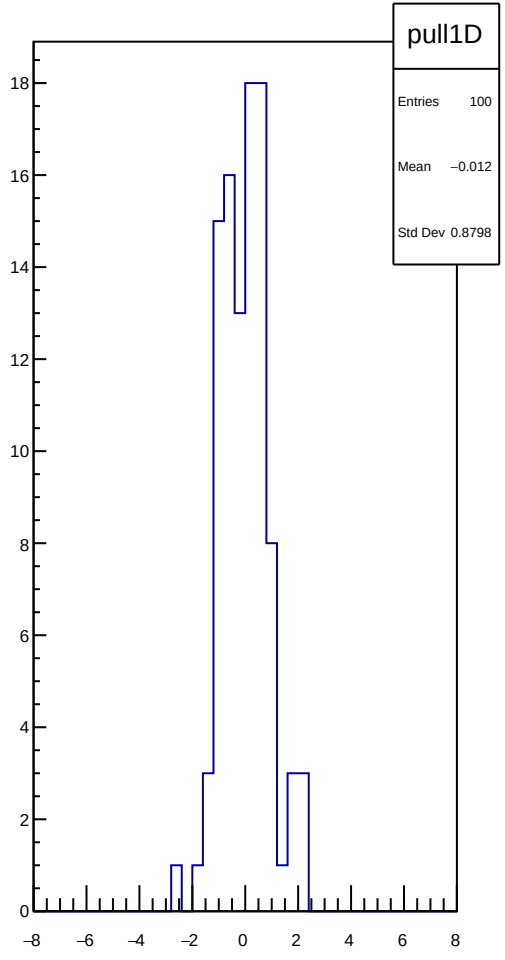

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 114.7 / 99
p0 0.007827 ± 0.03808
pull
Entries 100
Mean −1.387
Std Dev 78.92
pull1D
Entries 100
Mean −0.01048
Std Dev 1.071

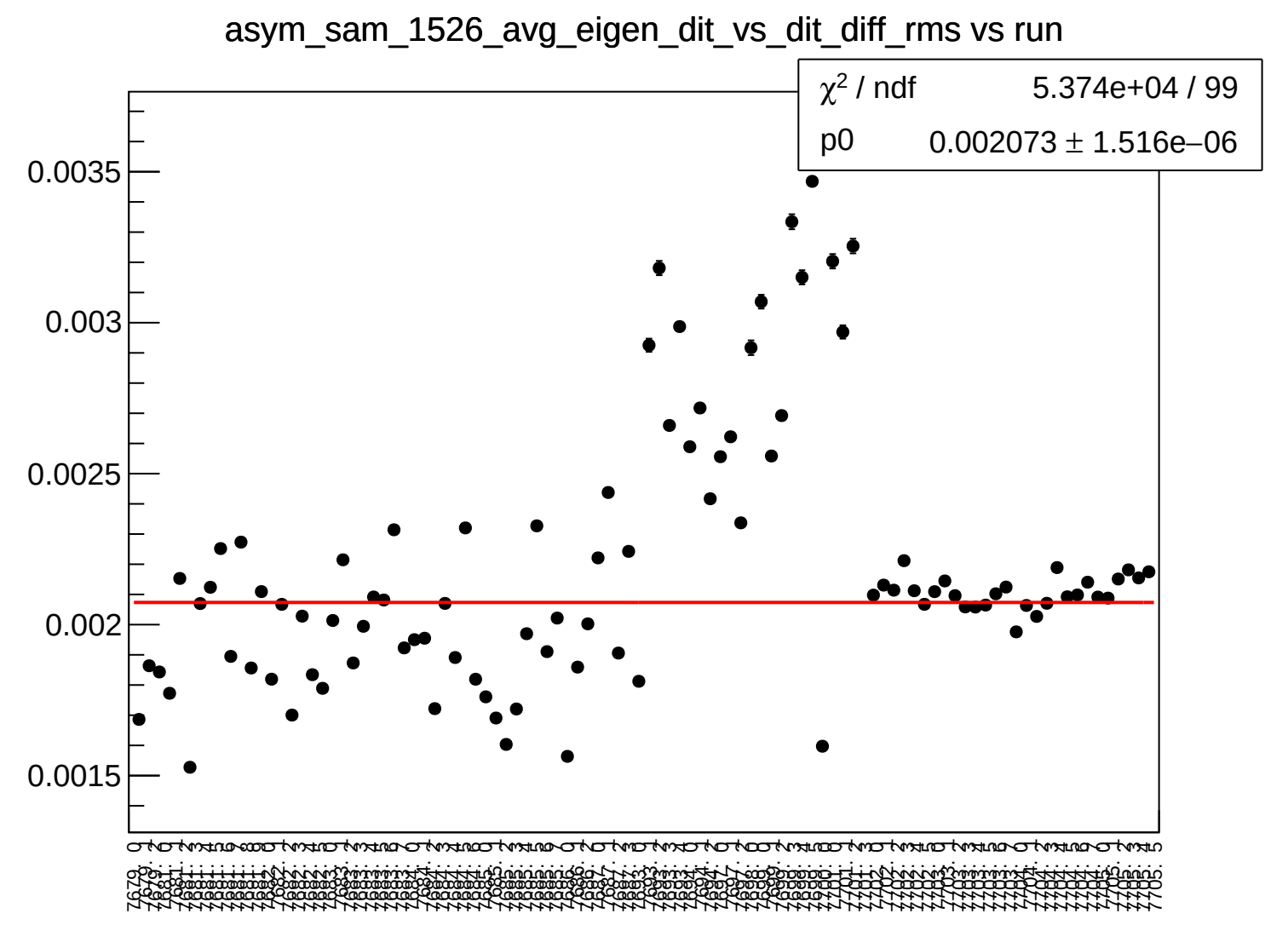

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.304e+05 / 99
p0 36.07 ± 0.02692
350
300
250
200
150
100
50

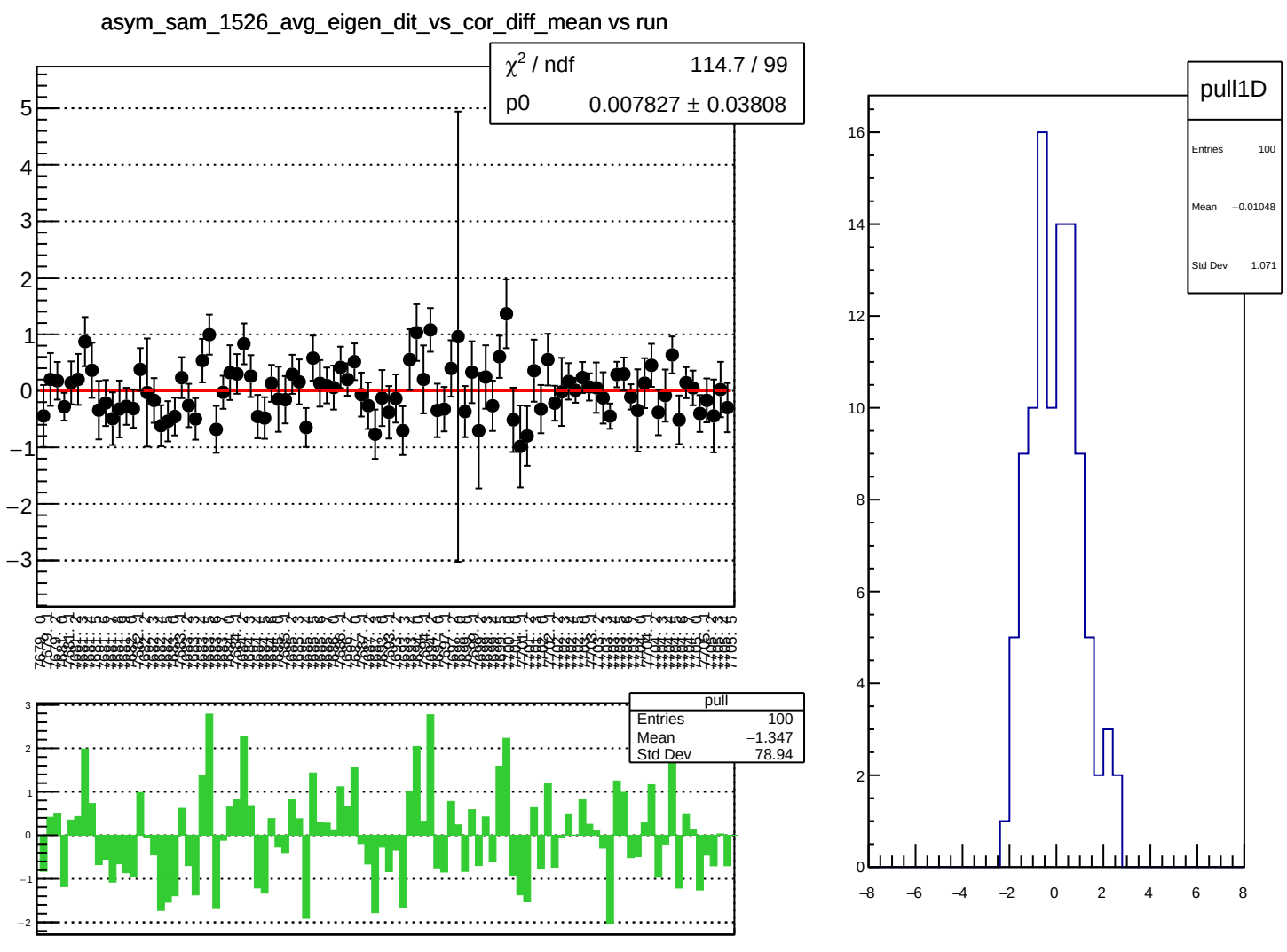

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 114.7 / 99
p0 0.007827 ± 0.03808
pull
Entries 100
Mean −1.387
Std Dev 78.92
pull1D
Entries 100
Mean −0.01048
Std Dev 1.071

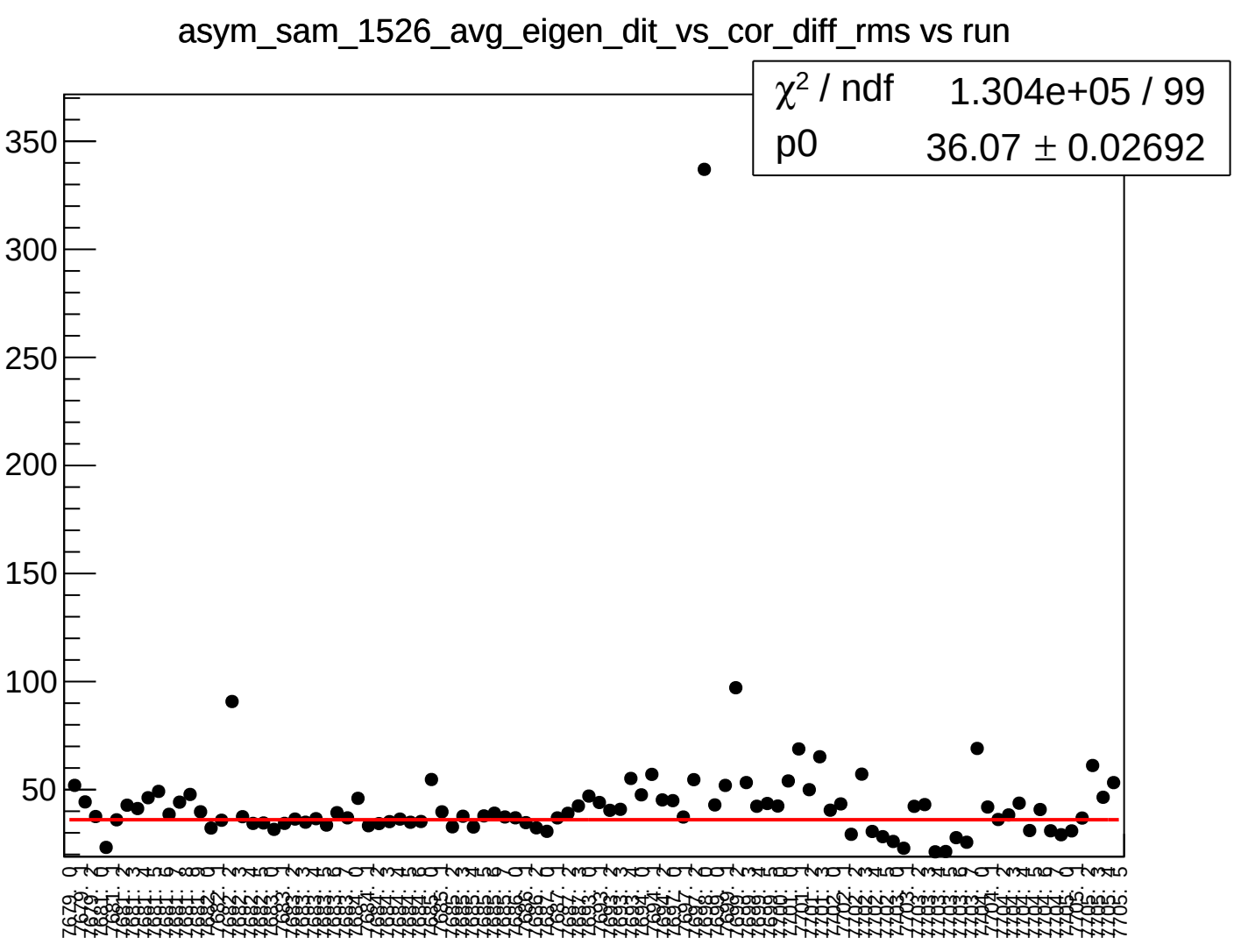

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.304e+05 / 99
p0 36.07 ± 0.02692
350
300
250
200
150
100
50

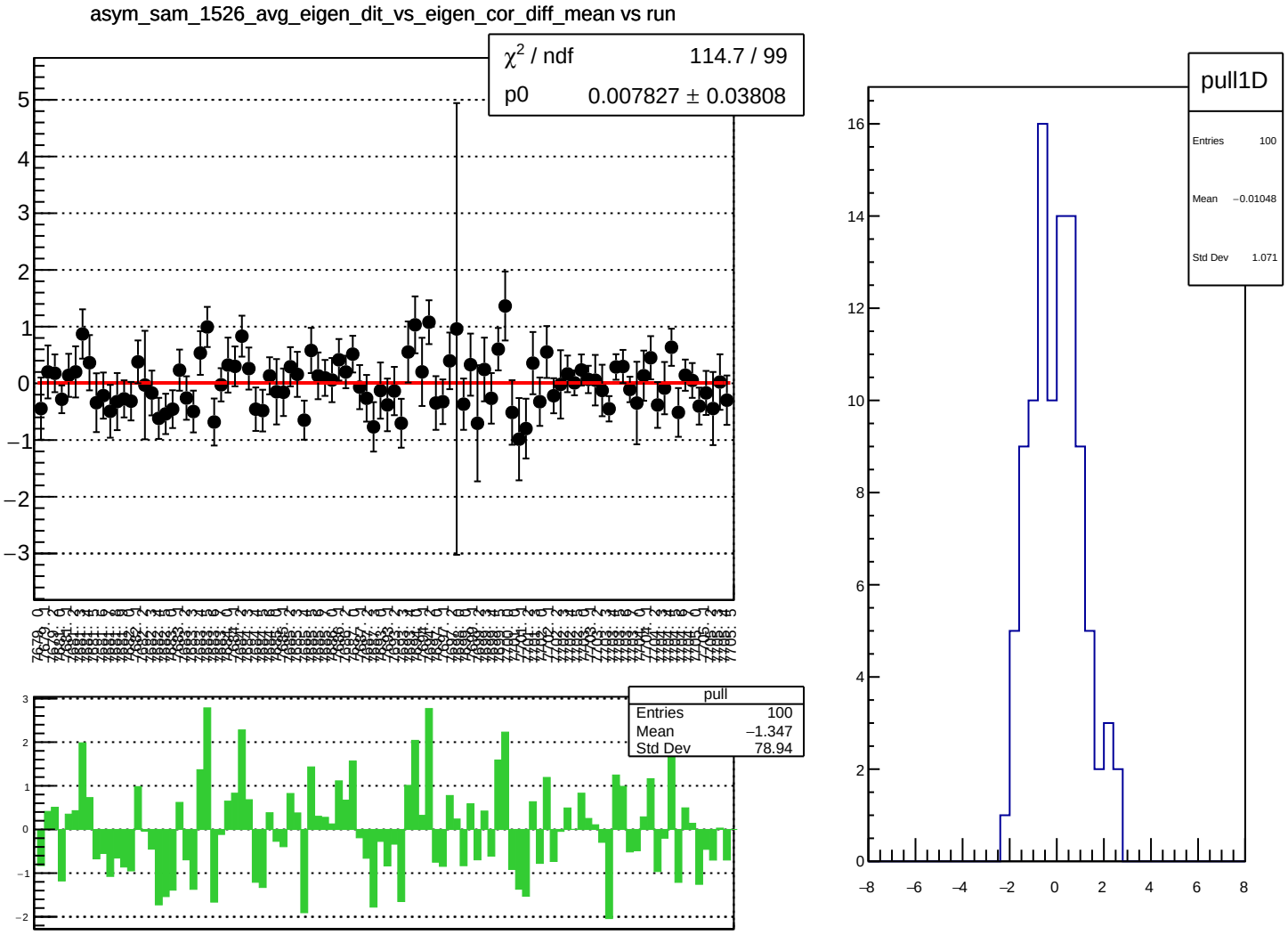

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.43 / 99
p0 −2.537e−06 ± 2.143e−06
pull
Entries 100
Mean 458
Std Dev 0

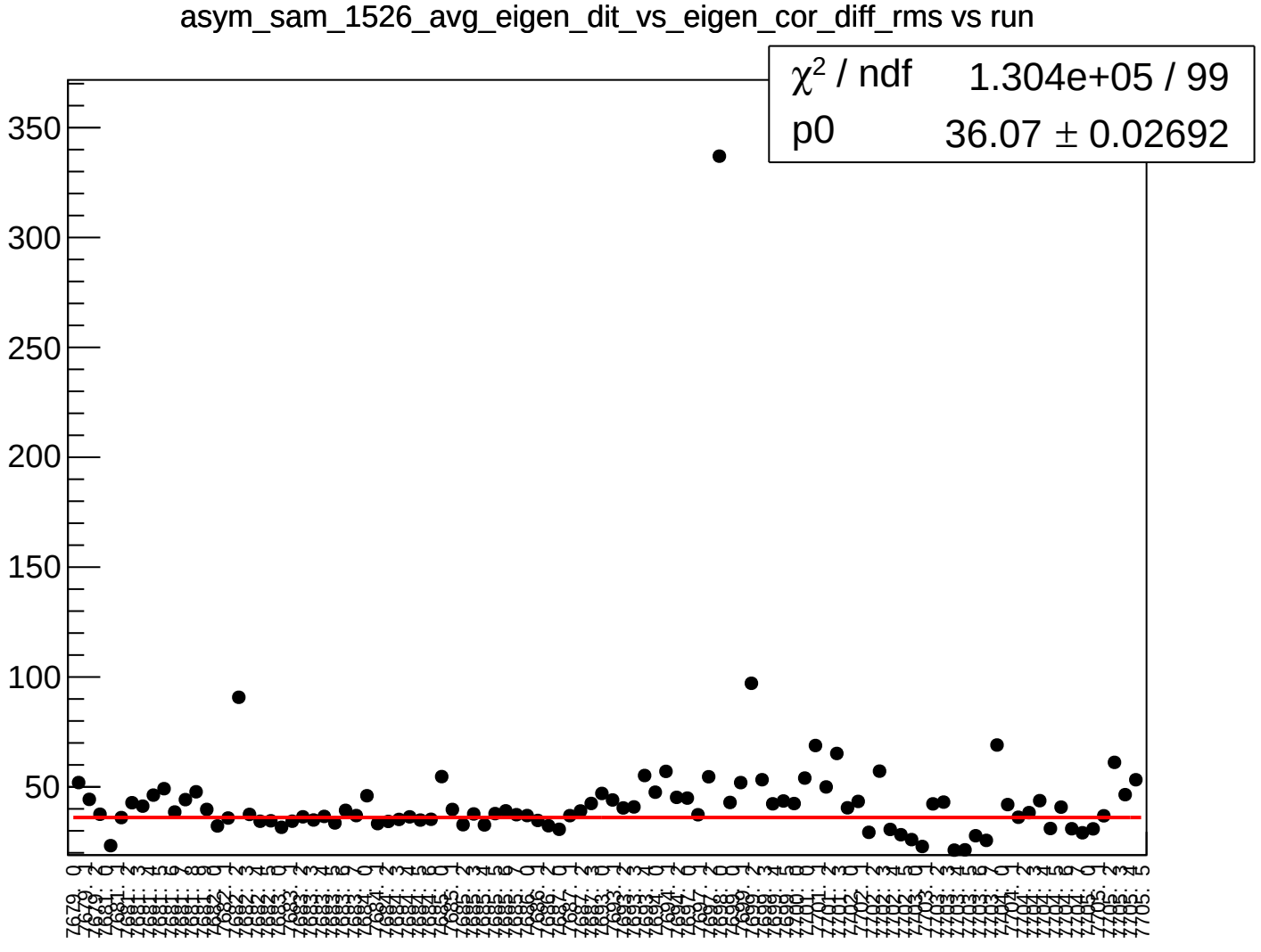

pull1D
Entries 100
Mean −0.012
Std Dev 0.8798

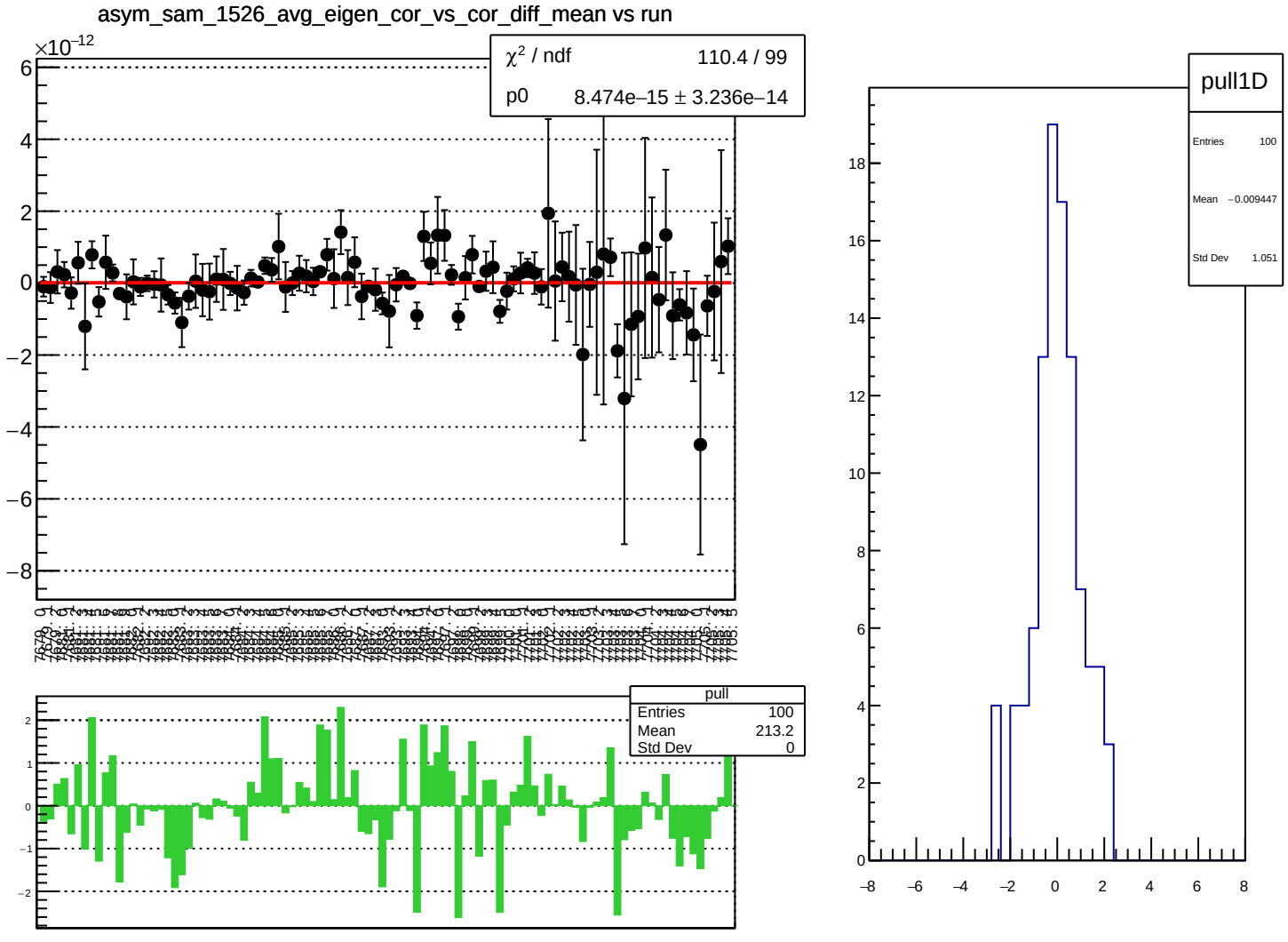

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.374e+04 / 99
p0 0.002073 ± 1.516e−06
0.0035
0.003
0.0025
0.002
0.0015

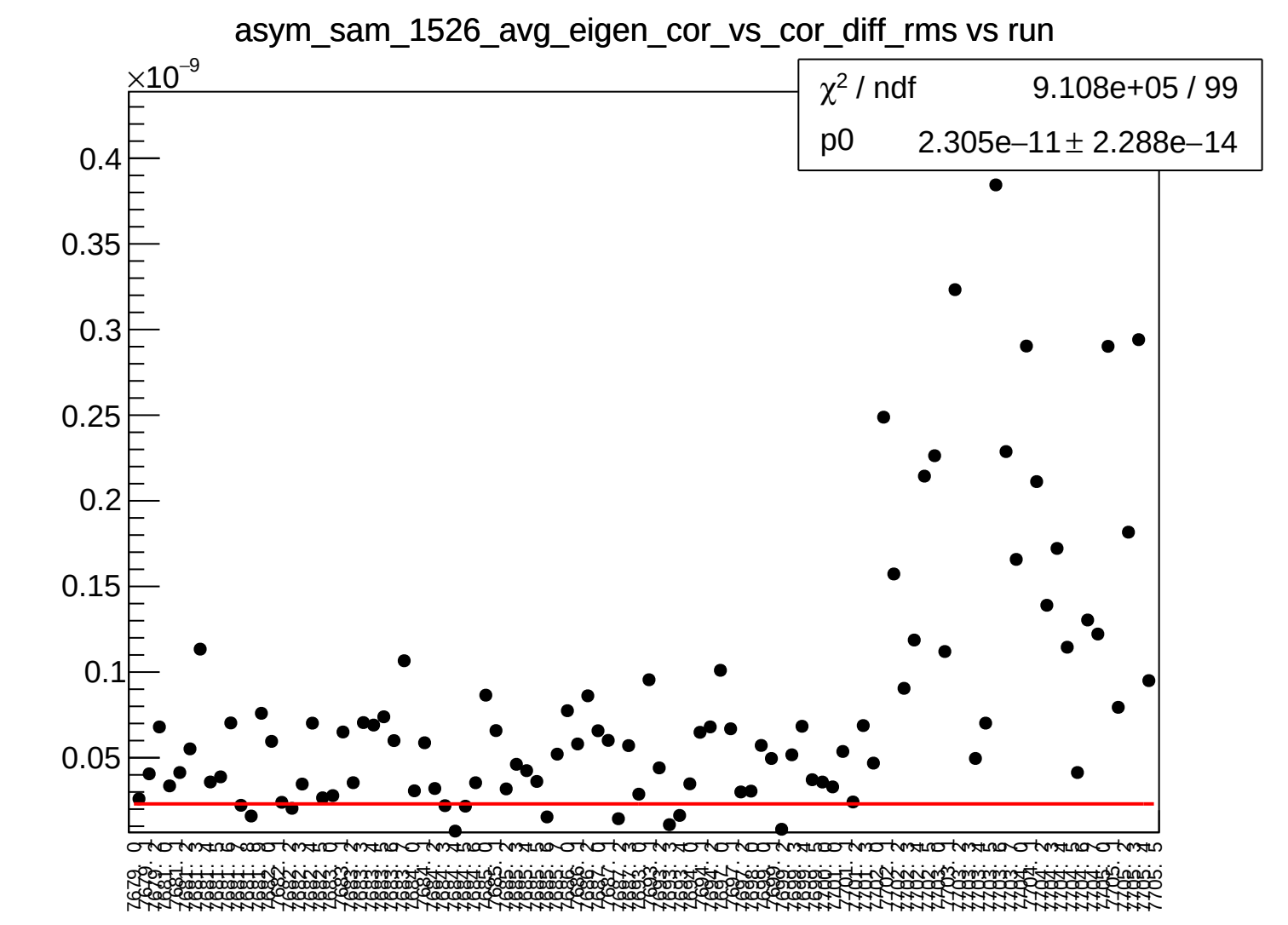

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 114.7 / 99
p0 0.007827 ± 0.03808
pull
Entries 100
Mean −1.347
Std Dev 78.94
pull1D
Entries 100
Mean −0.01048
Std Dev 1.071

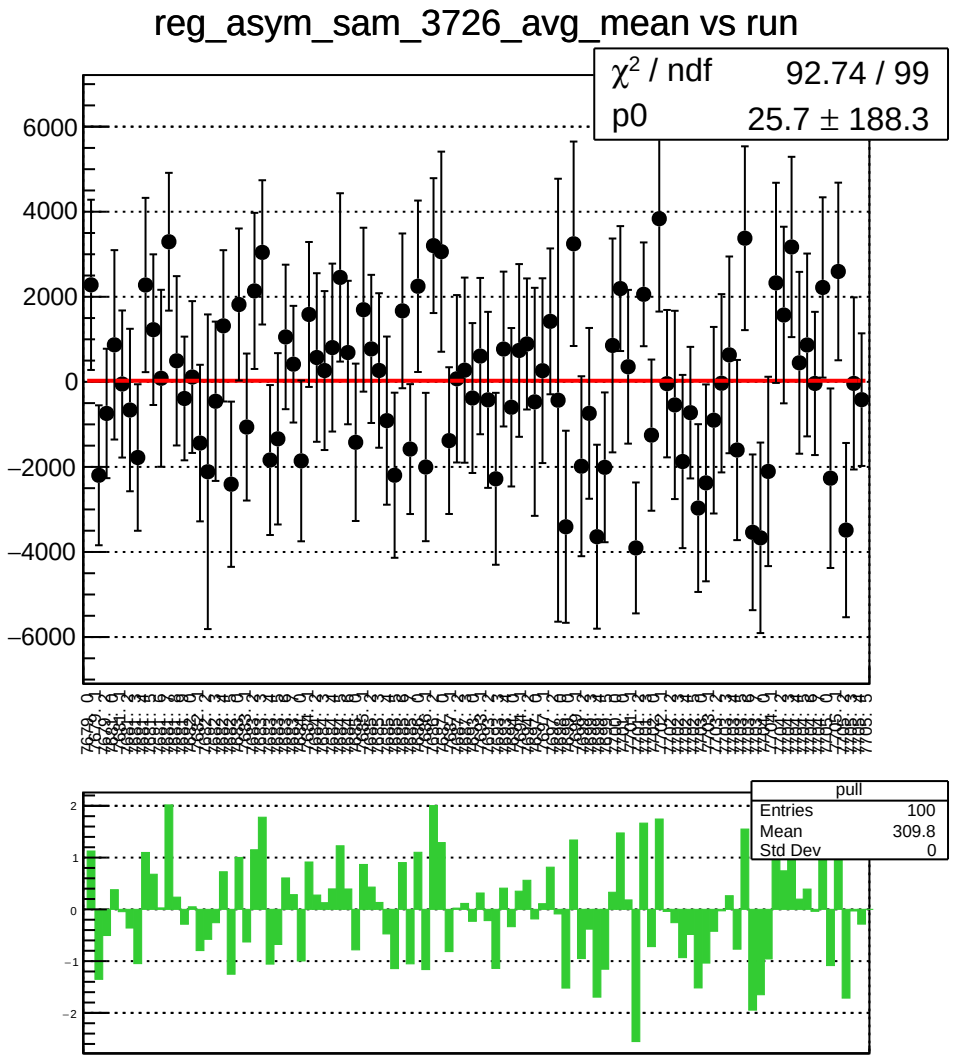

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.304e+05 / 99
p0 36.07 ± 0.02692
350
300
250
200
150
100
50

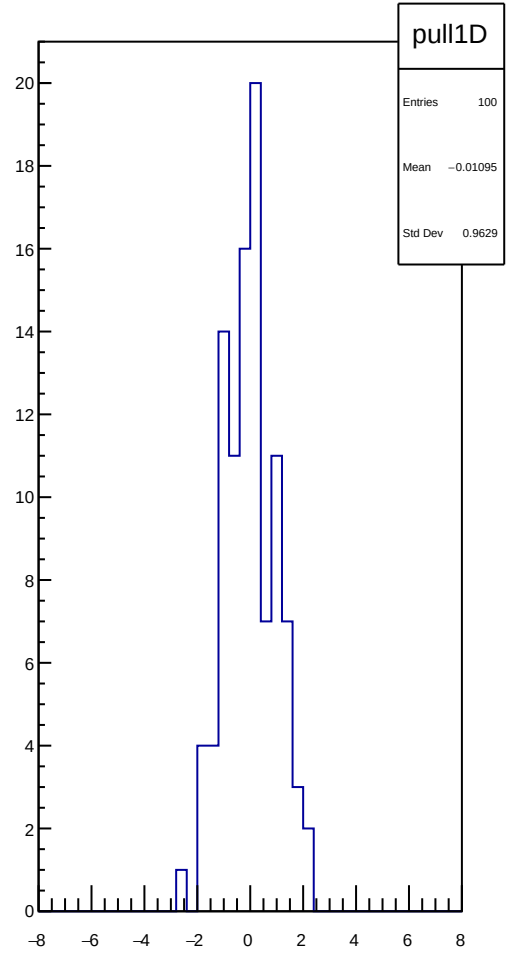

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 114.7 / 99
p0 0.007827 ± 0.03808
pull
Entries 100
Mean −1.347
Std Dev 78.94
pull1D
Entries 100
Mean −0.01048
Std Dev 1.071

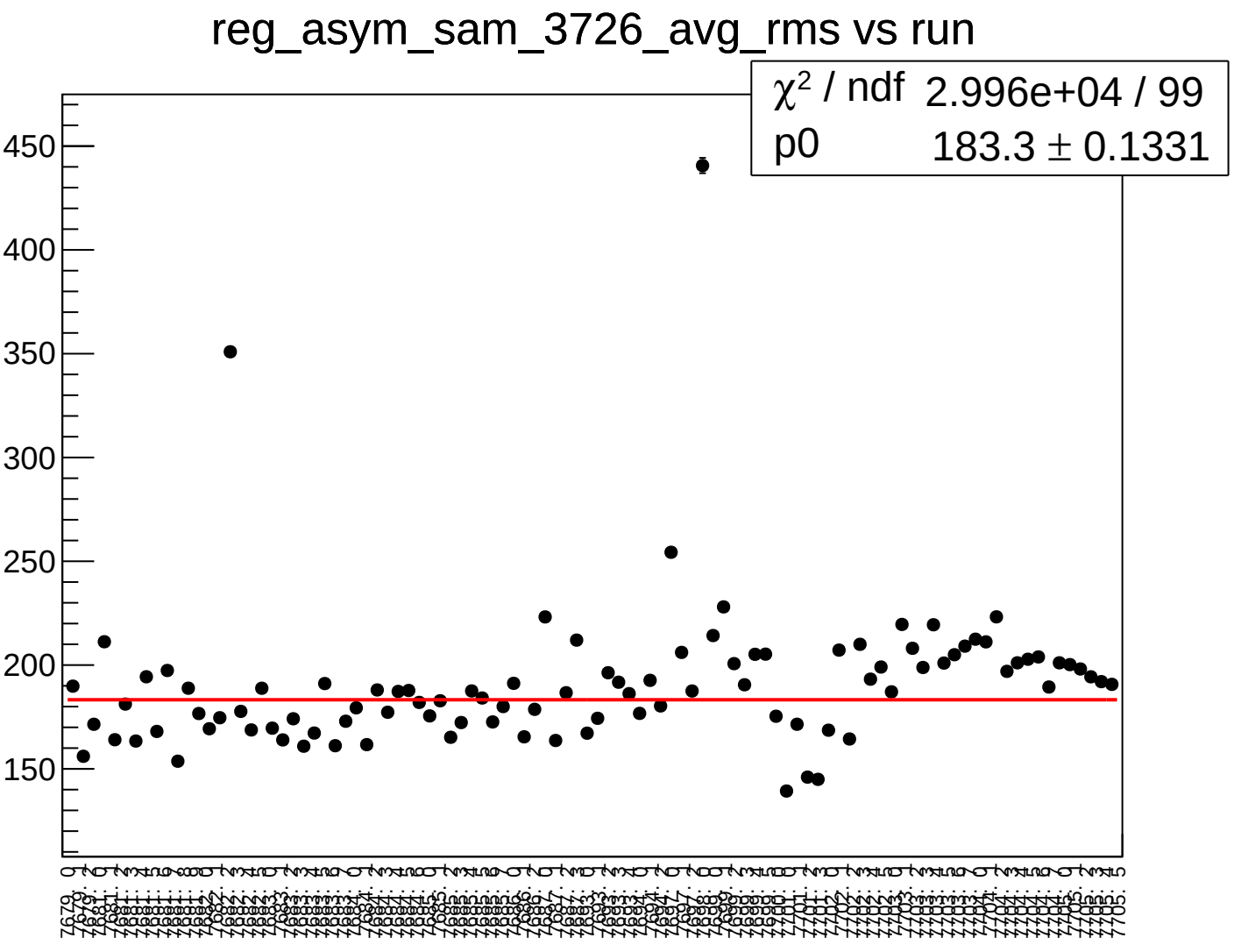

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.304e+05 / 99
p0 36.07 ± 0.02692
350
300
250
200
150
100
50

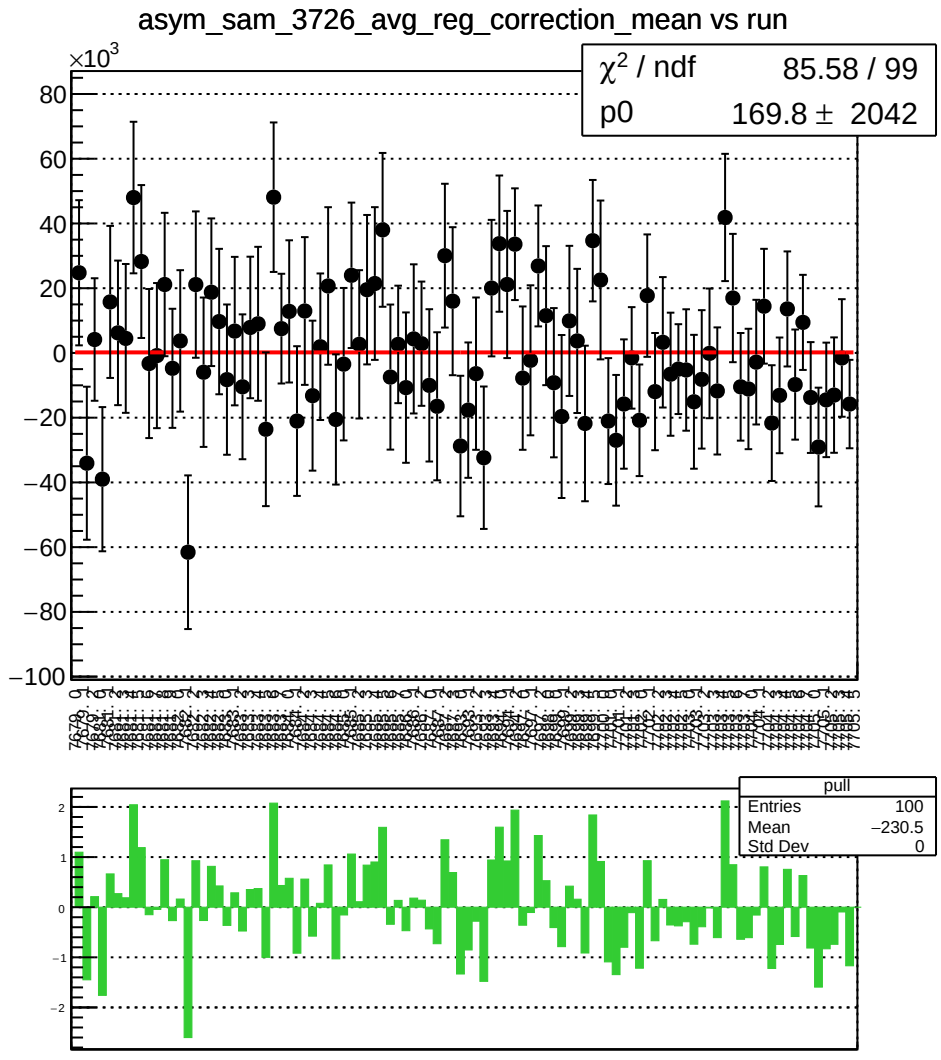

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 110.4 / 99
p0 8.474e−15 ± 3.236e−14
pull
Entries 100
Mean 213.2
Std Dev 0
pull1D
Entries 100
Mean −0.009447
Std Dev 1.051

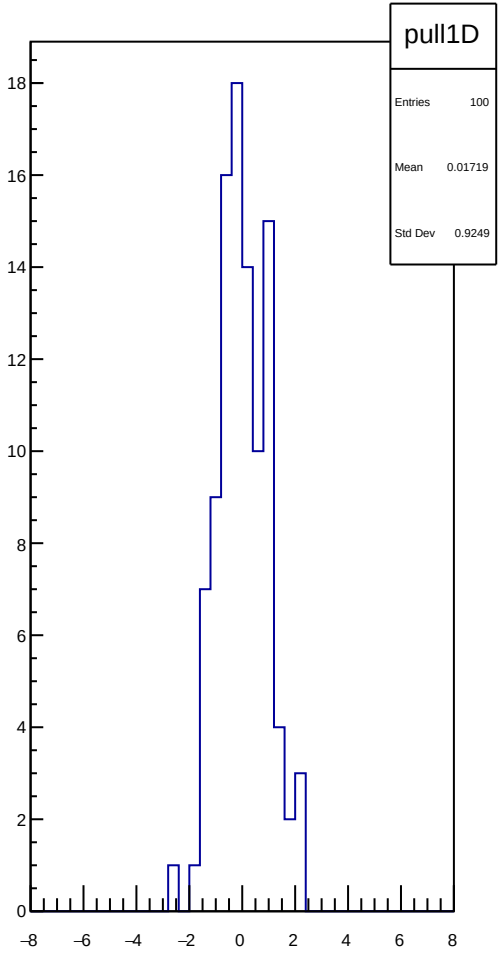

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.108e+05 / 99
p0 2.305e−11 ± 2.288e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

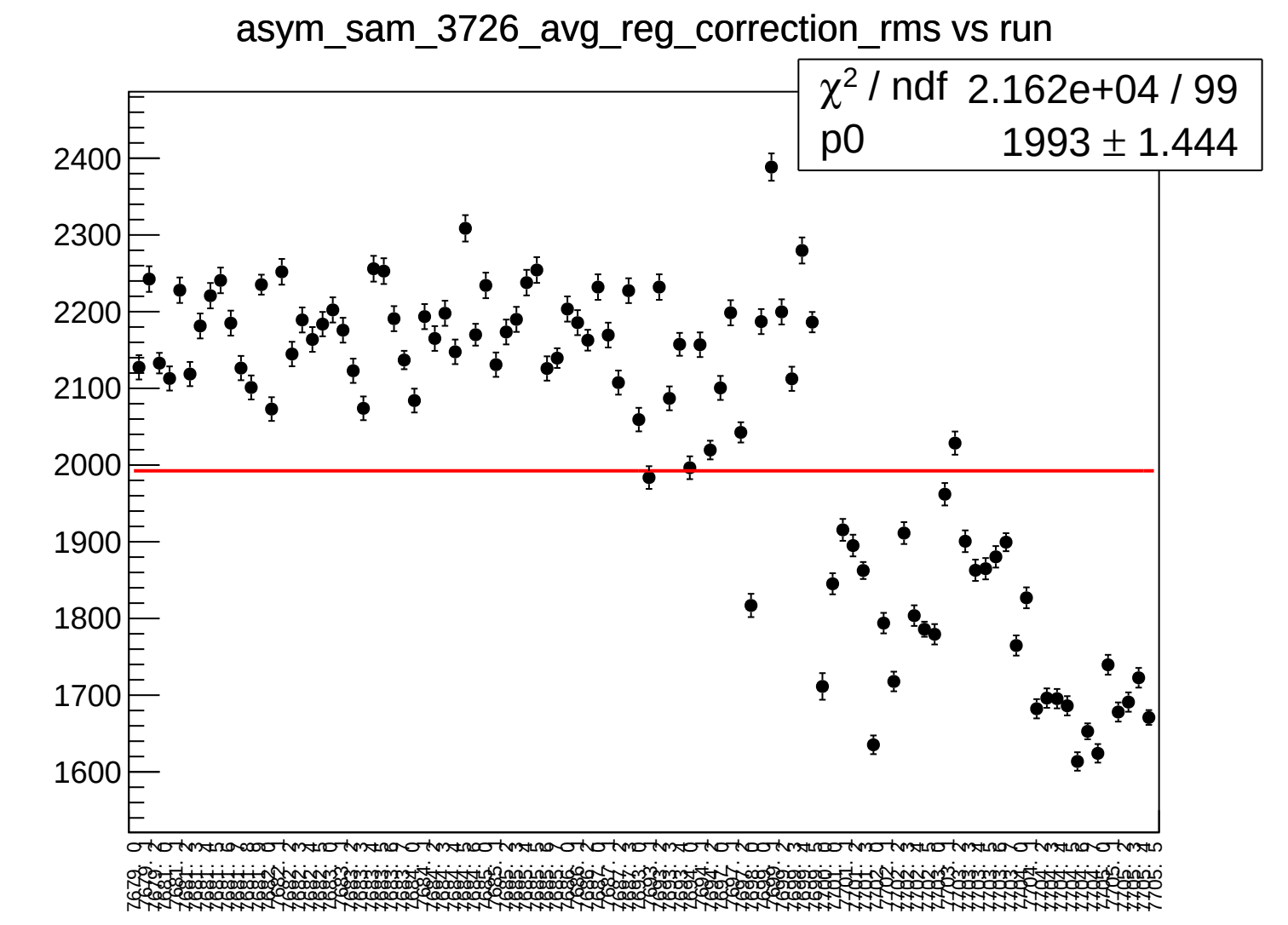

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 92.74 / 99
p0 25.7 ± 188.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 309.8
Std Dev 0
2
1
0
−1
−2

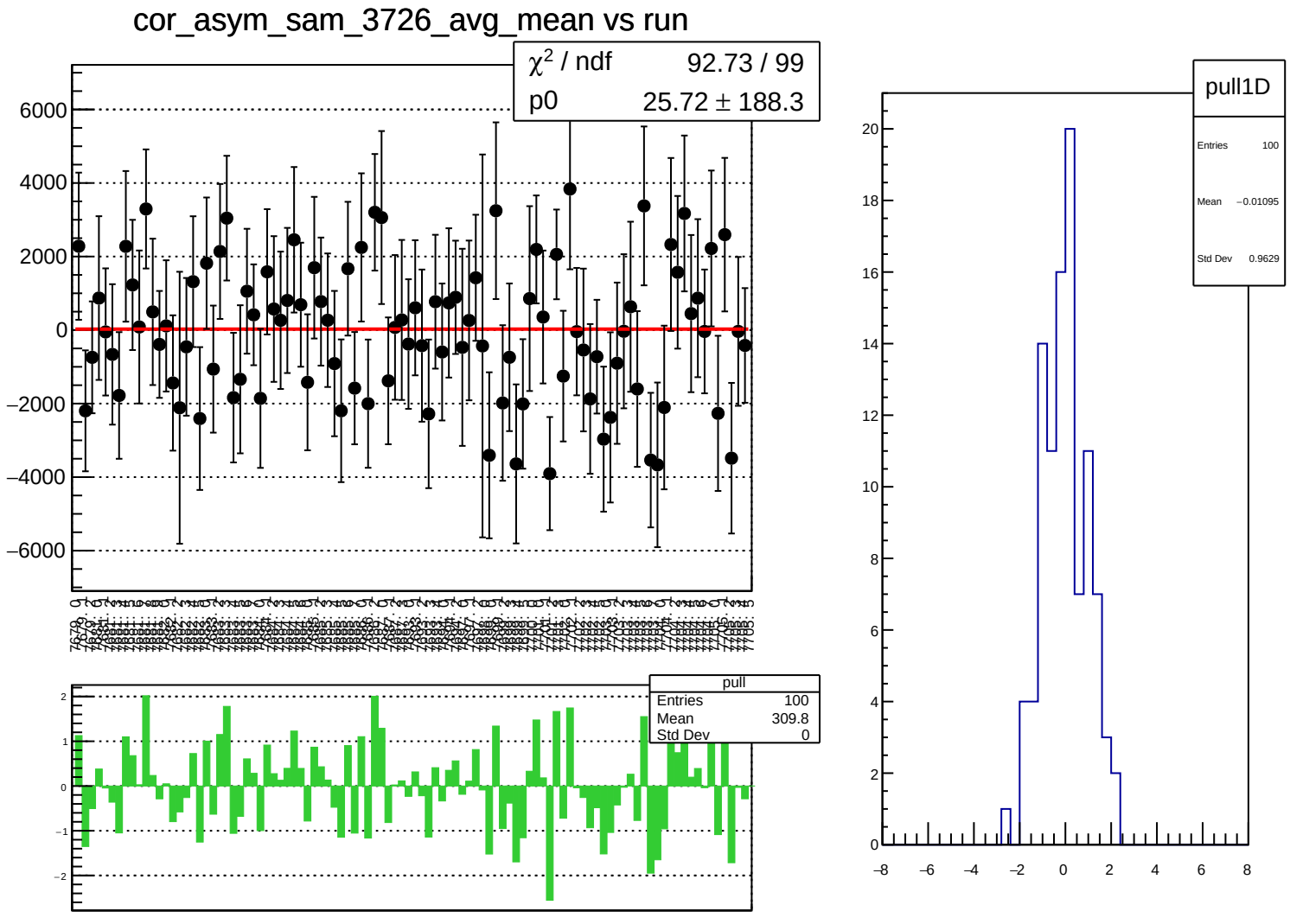

pull1D
Entries 100
Mean −0.01095
Std Dev 0.9629
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

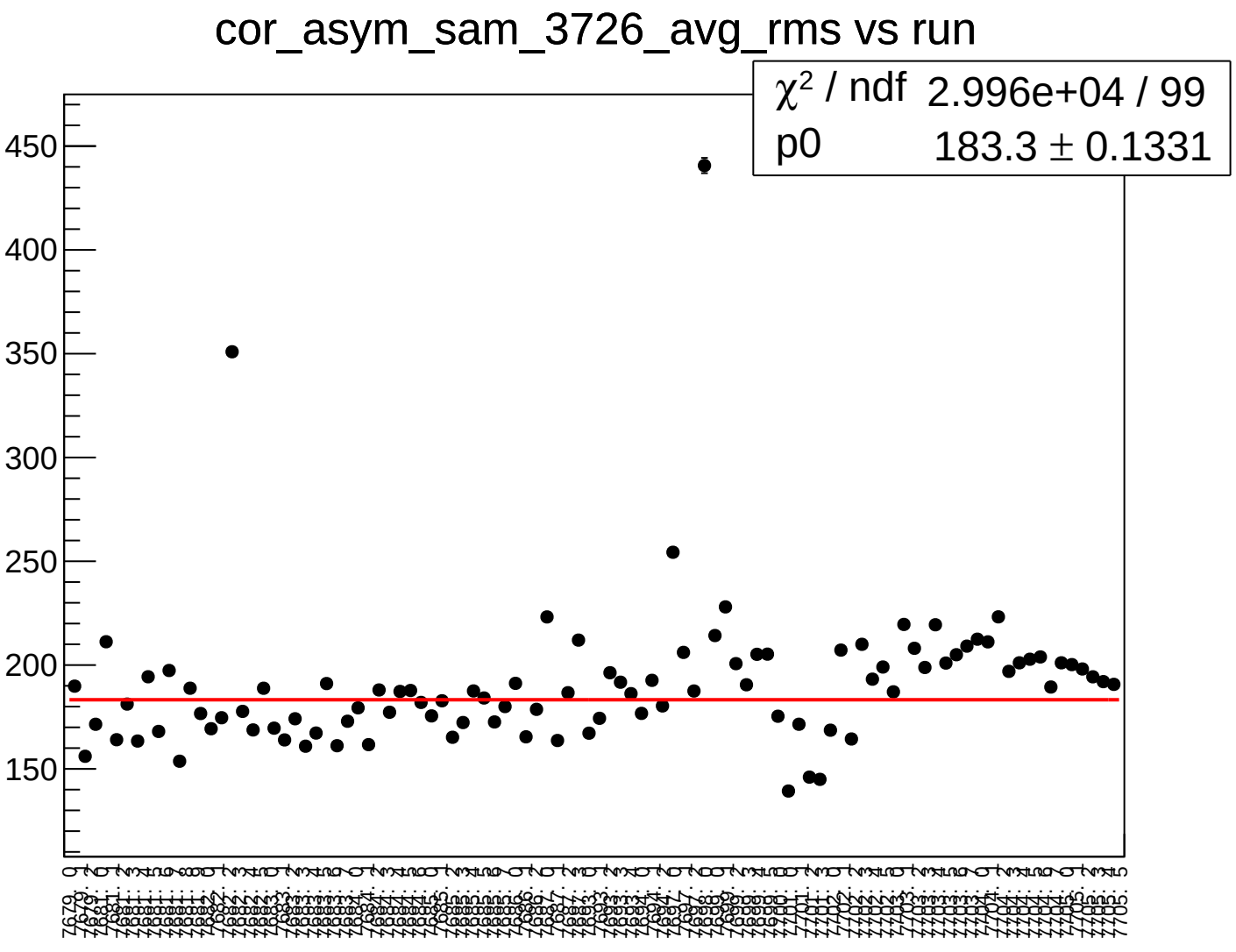

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 2.996e+04 / 99
p0 183.3 ± 0.1331
450
400
350
300
250
200
150

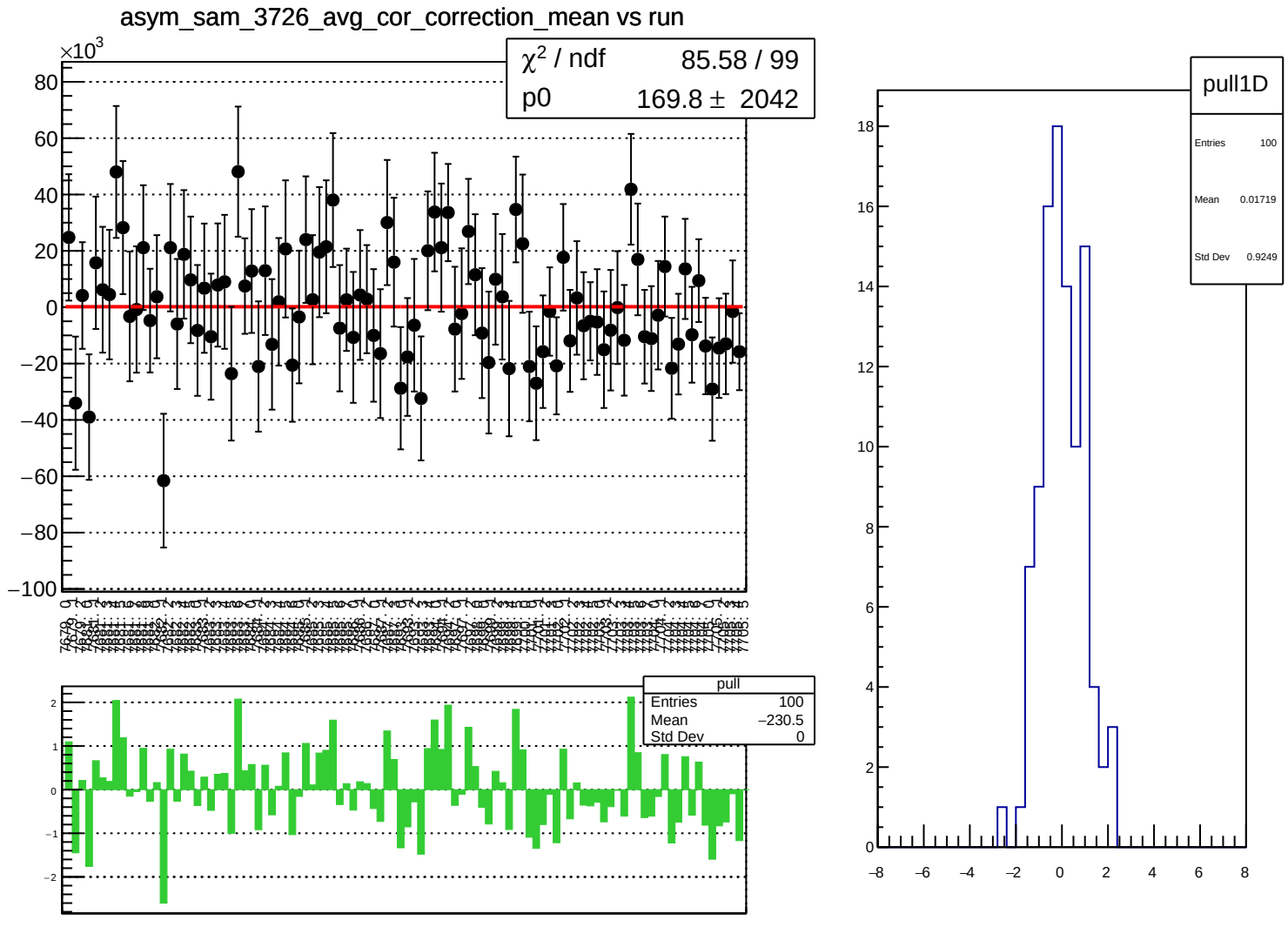

asym_sam_3726_avg_reg_correction_mean vs run
×10^3
χ² / ndf 85.58 / 99
p0 169.8 ± 2042
pull
Entries 100
Mean −230.5
Std Dev 0

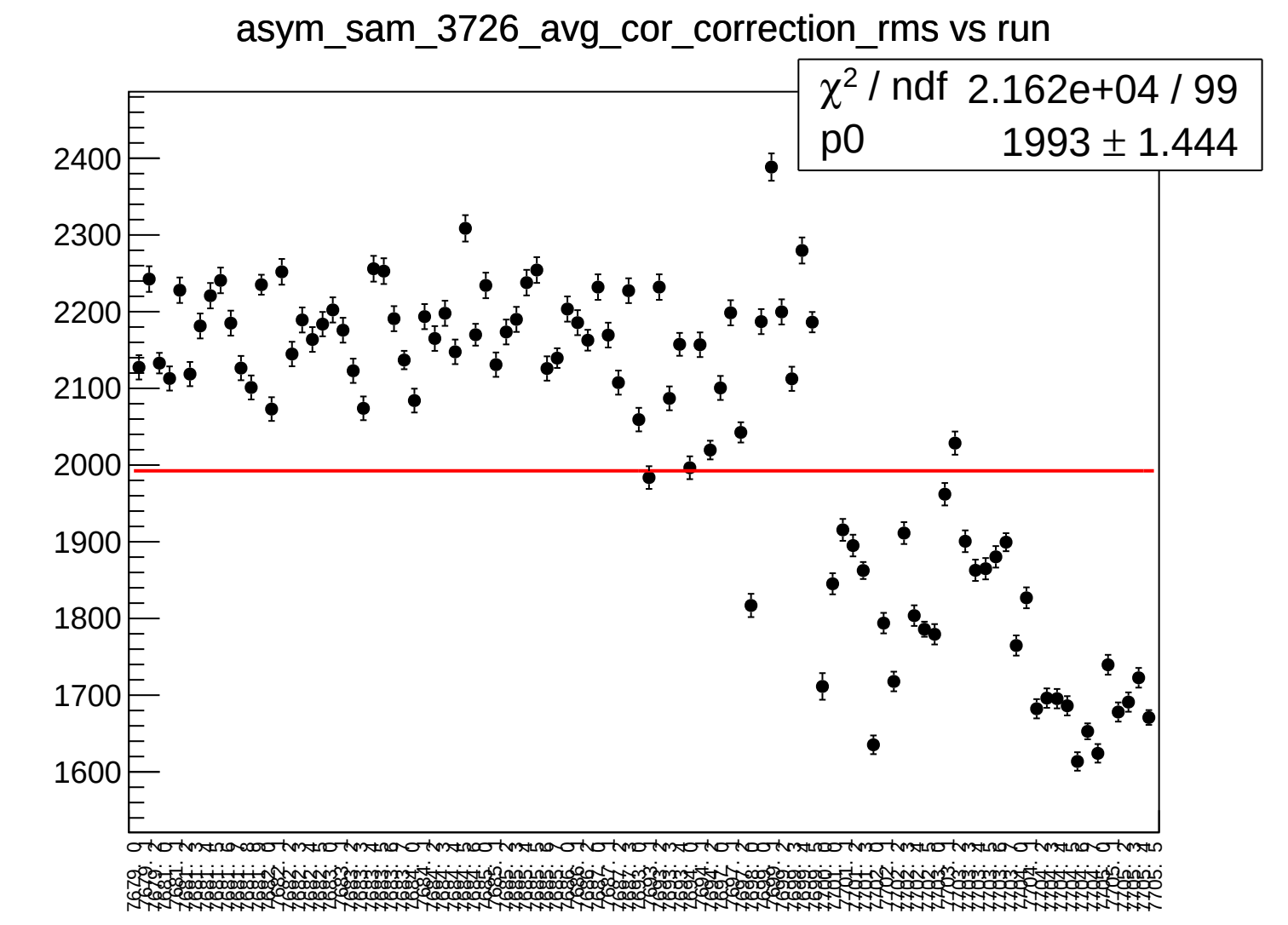

pull1D
Entries 100
Mean 0.01719
Std Dev 0.9249

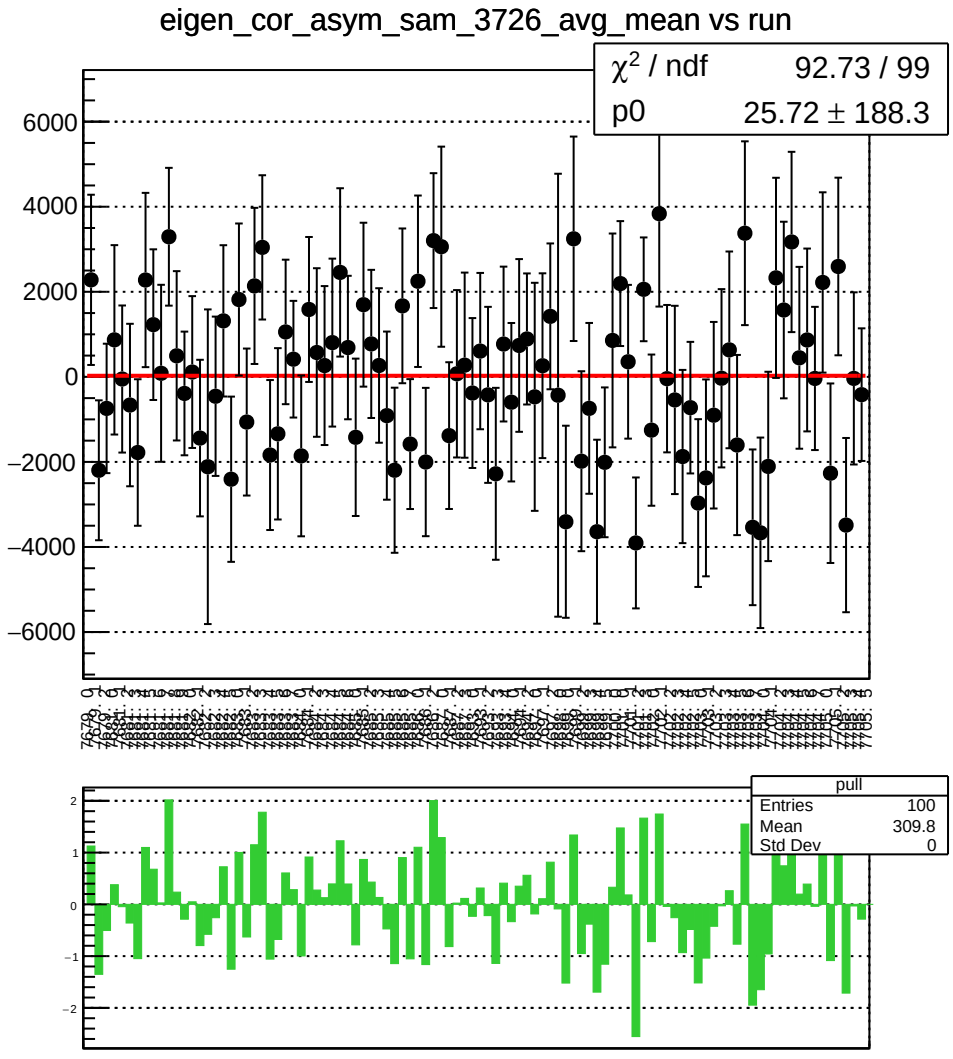

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 2.162e+04 / 99
p0 1993 ± 1.444
2400
2300
2200
2100
2000
1900
1800
1700
1600

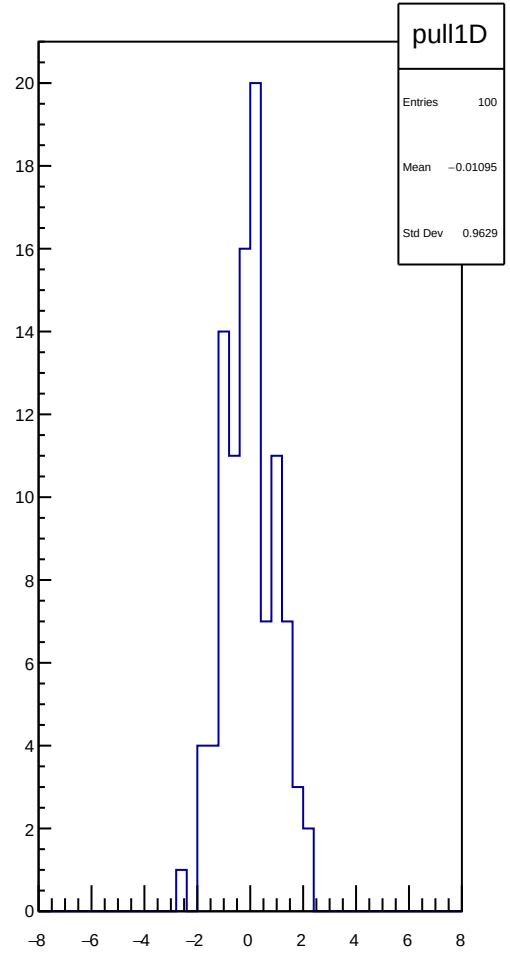

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 92.73 / 99
p0 25.72 ± 188.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 309.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.01095
Std Dev 0.9629
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

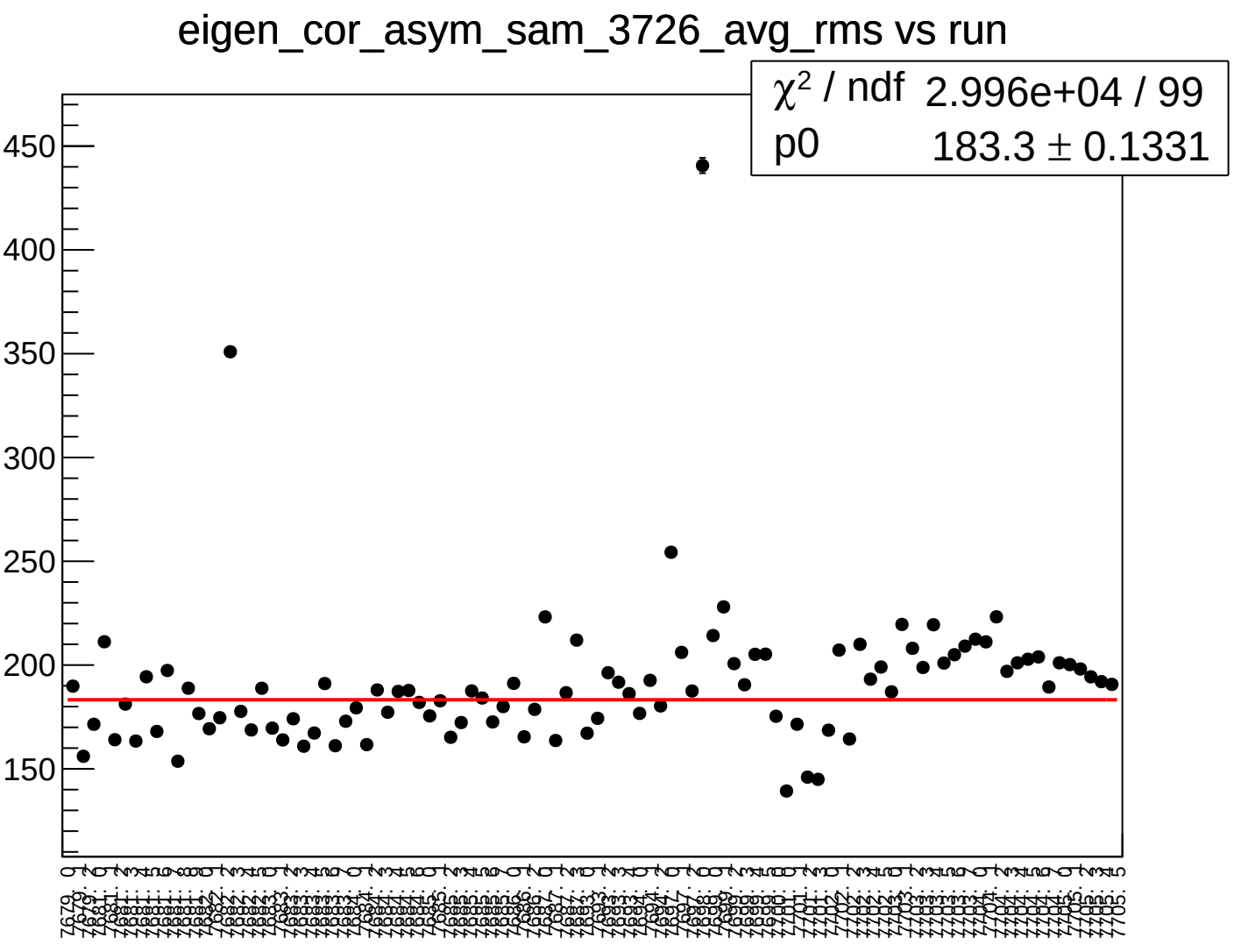

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 2.996e+04 / 99
p0 183.3 ± 0.1331
450
400
350
300
250
200
150

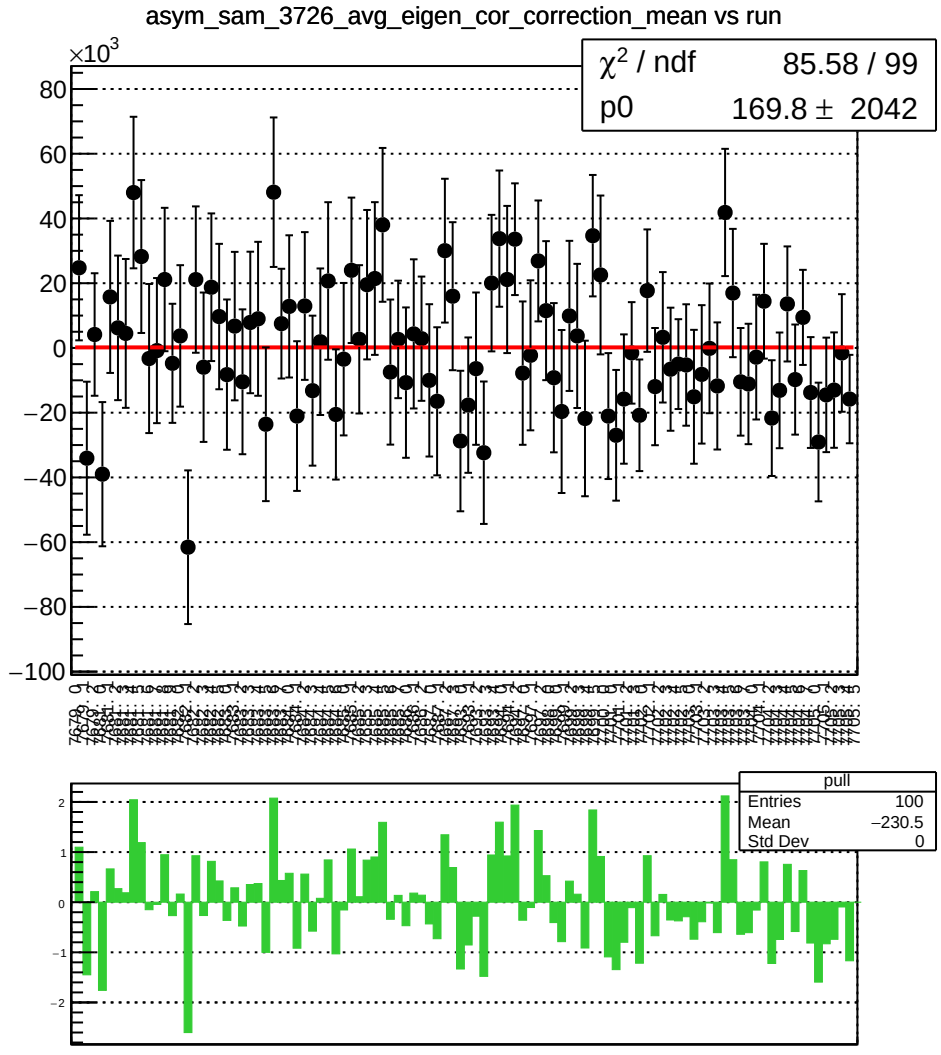

asym_sam_3726_avg_cor_correction_mean vs run
×10^3
χ² / ndf 85.58 / 99
p0 169.8 ± 2042
pull
Entries 100
Mean −230.5
Std Dev 0
pull1D
Entries 100
Mean 0.01719
Std Dev 0.9249

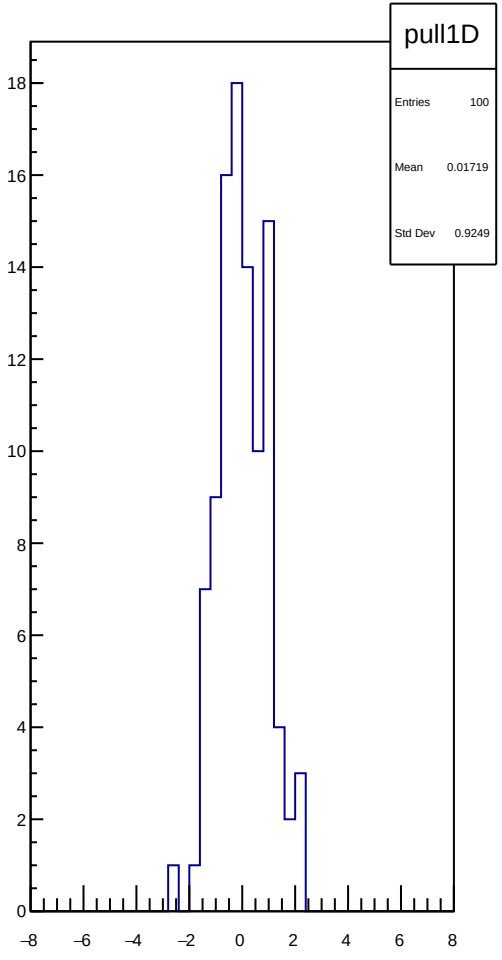

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 2.162e+04 / 99
p0 1993 ± 1.444
2400
2300
2200
2100
2000
1900
1800
1700
1600

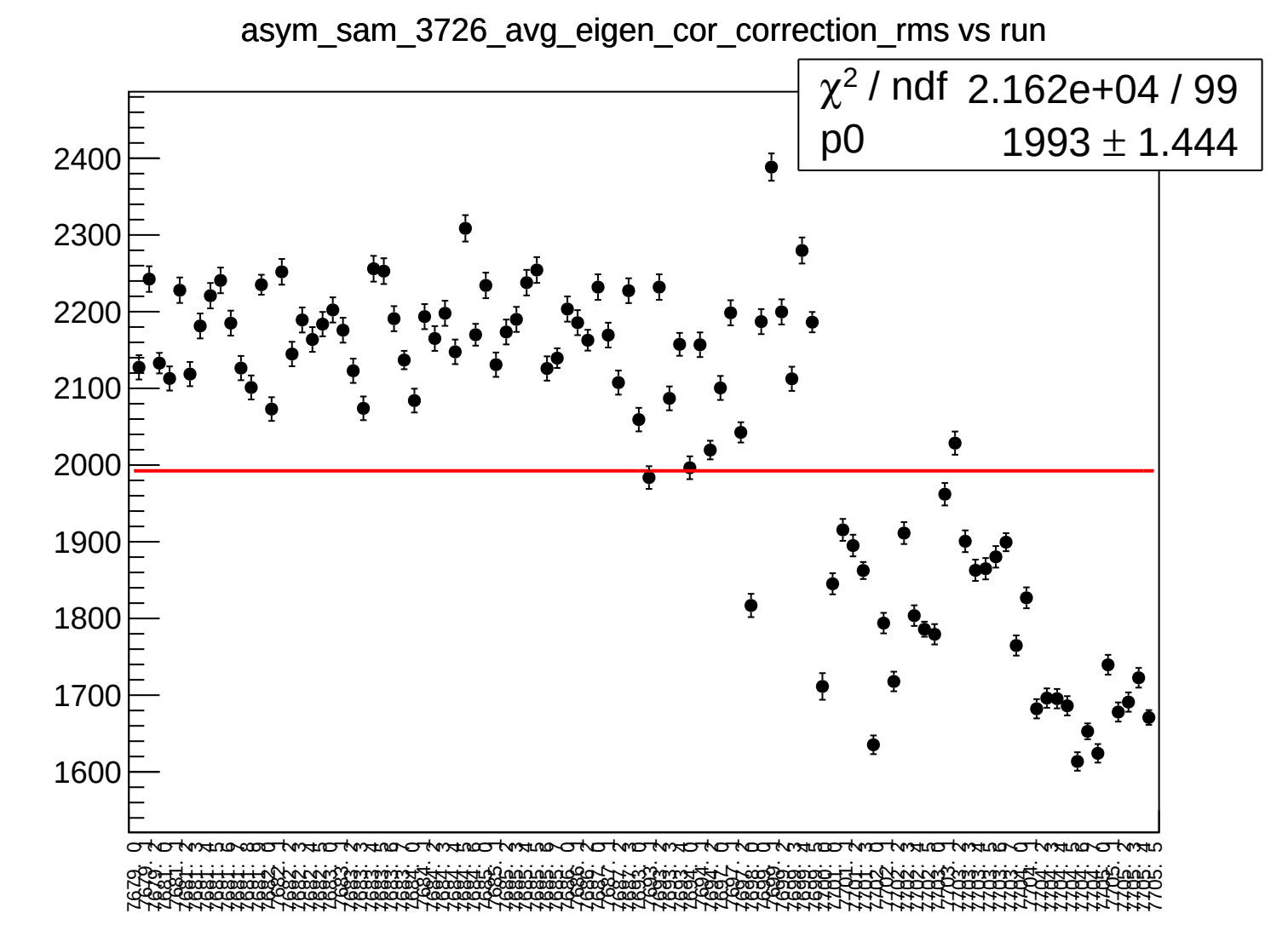

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 92.73 / 99
p0 25.72 ± 188.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 309.8
Std Dev 0
2
1
0
−1
−2

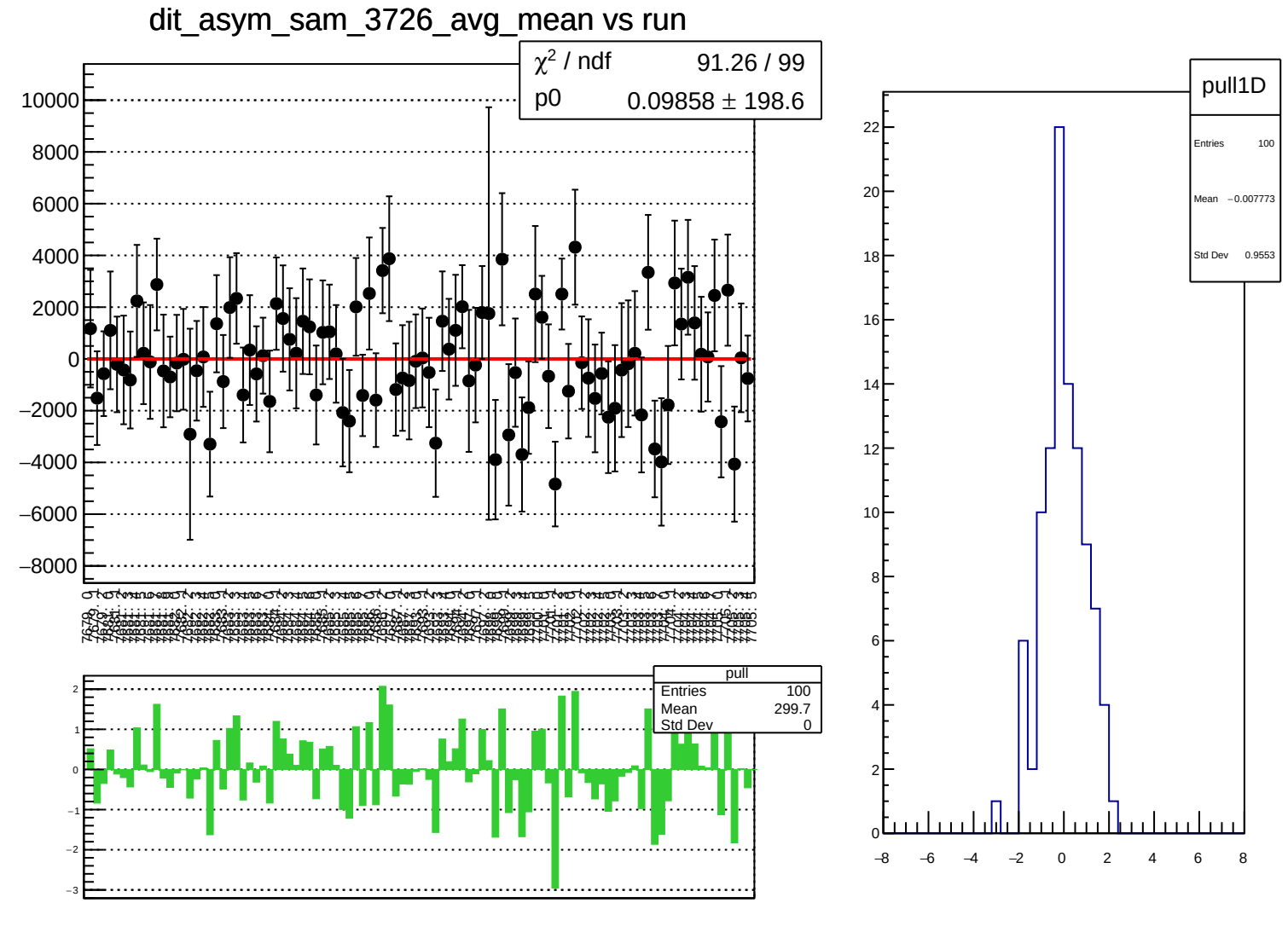

pull1D
Entries 100
Mean −0.01095
Std Dev 0.9629
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

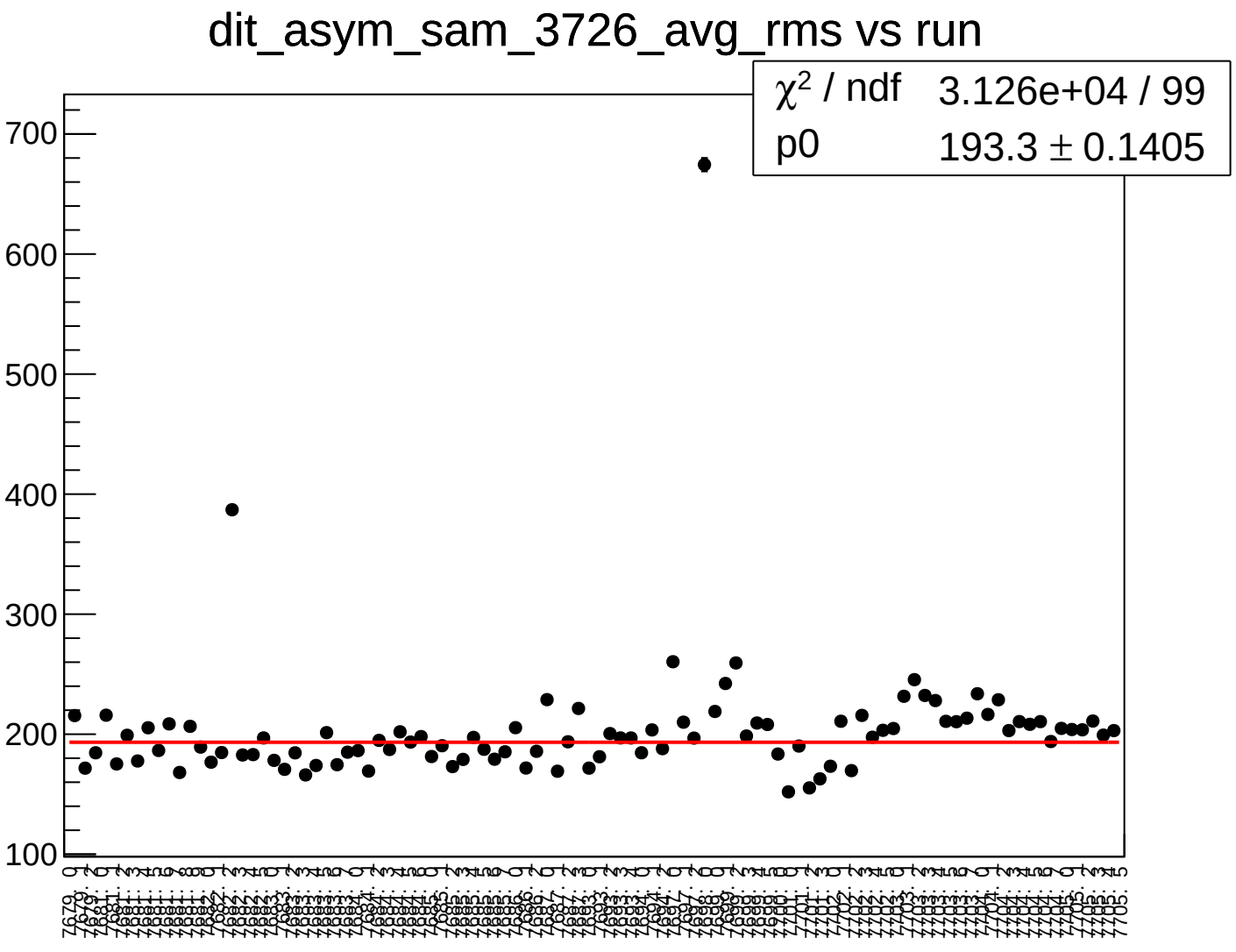

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 2.996e+04 / 99
p0 183.3 ± 0.1331
450
400
350
300
250
200
150

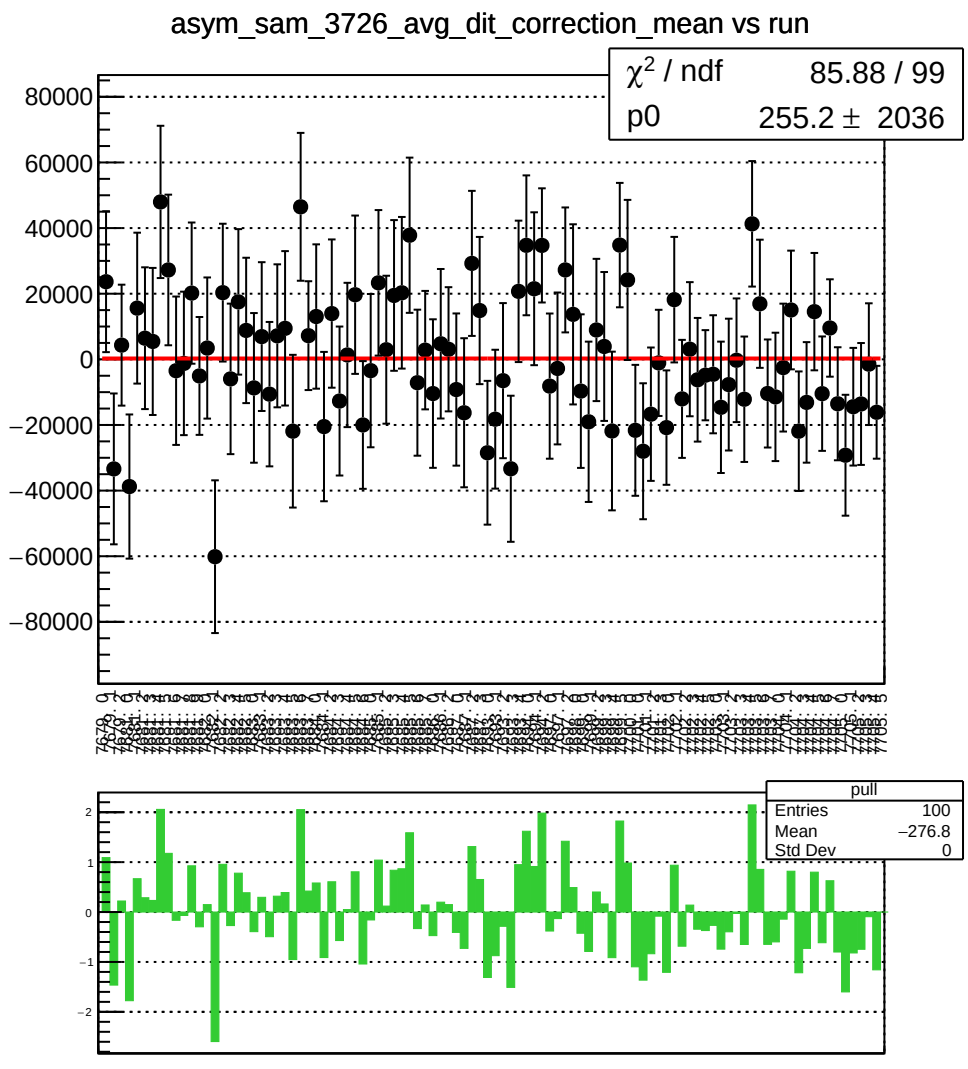

asym_sam_3726_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 85.58 / 99
p0 169.8 ± 2042
pull
Entries 100
Mean −230.5
Std Dev 0

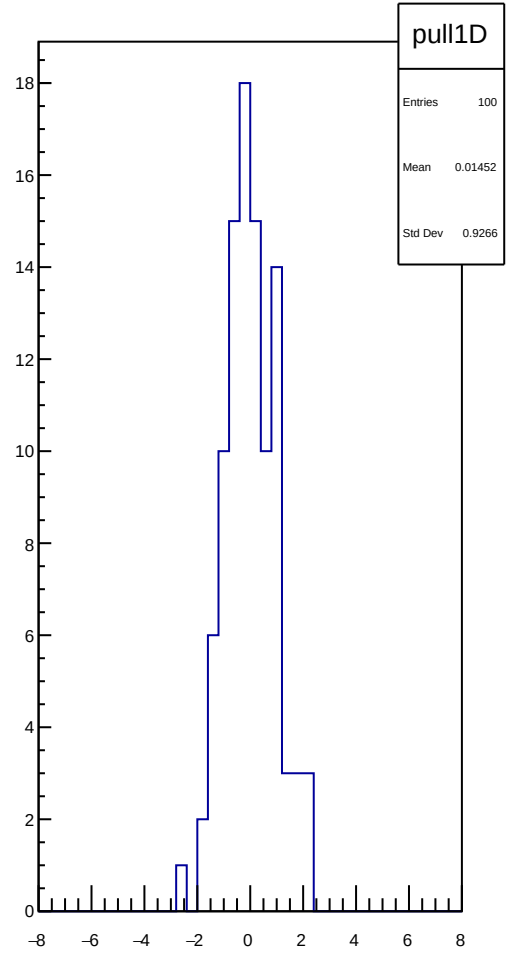

pull1D
Entries 100
Mean 0.01719
Std Dev 0.9249

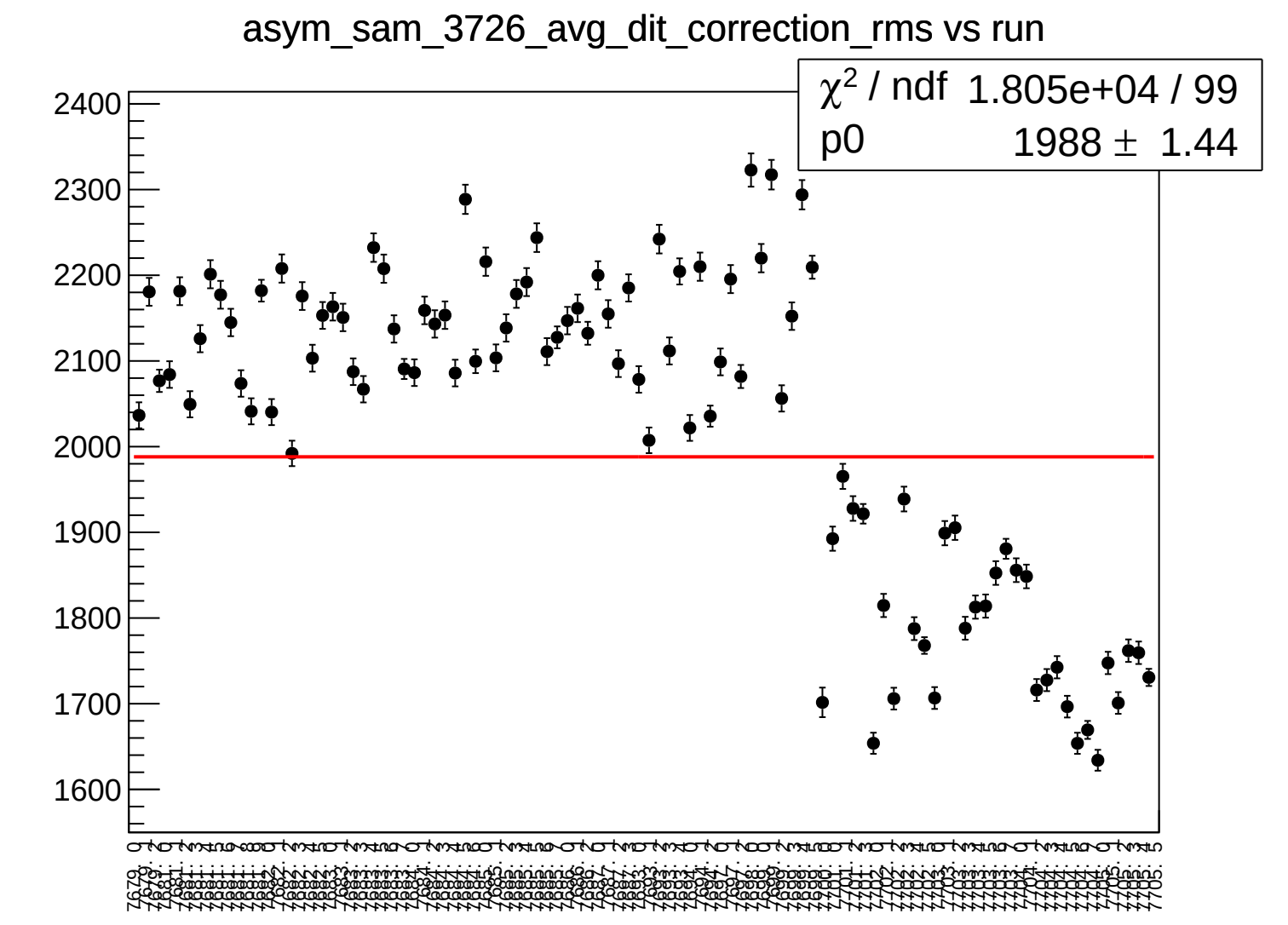

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.162e+04 / 99
p0 1993 ± 1.444
2400
2300
2200
2100
2000
1900
1800
1700
1600

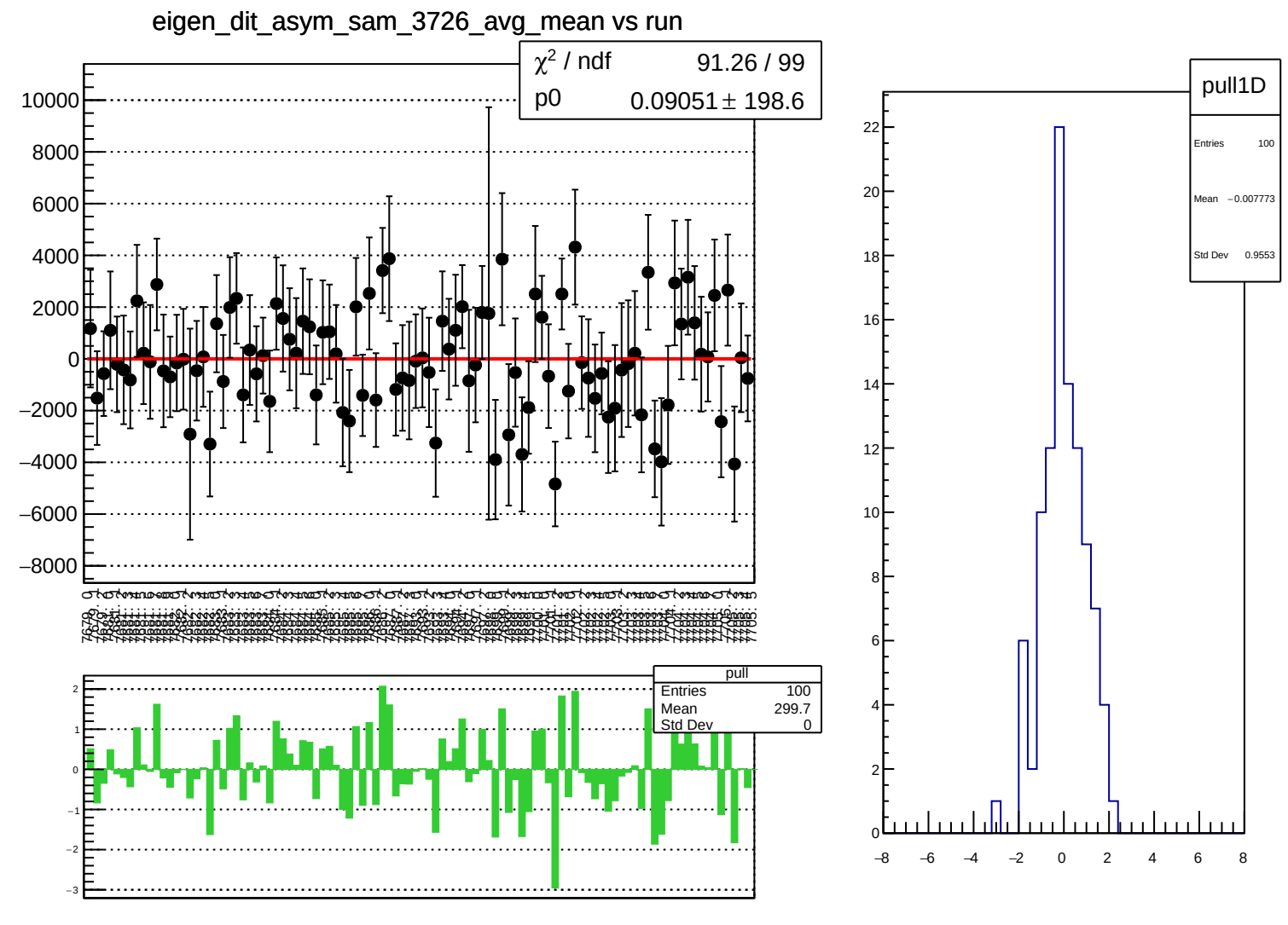

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 91.26 / 99
p0 0.09858 ± 198.6
pull
Entries 100
Mean 299.7
Std Dev 0
pull1D
Entries 100
Mean −0.007773
Std Dev 0.9553

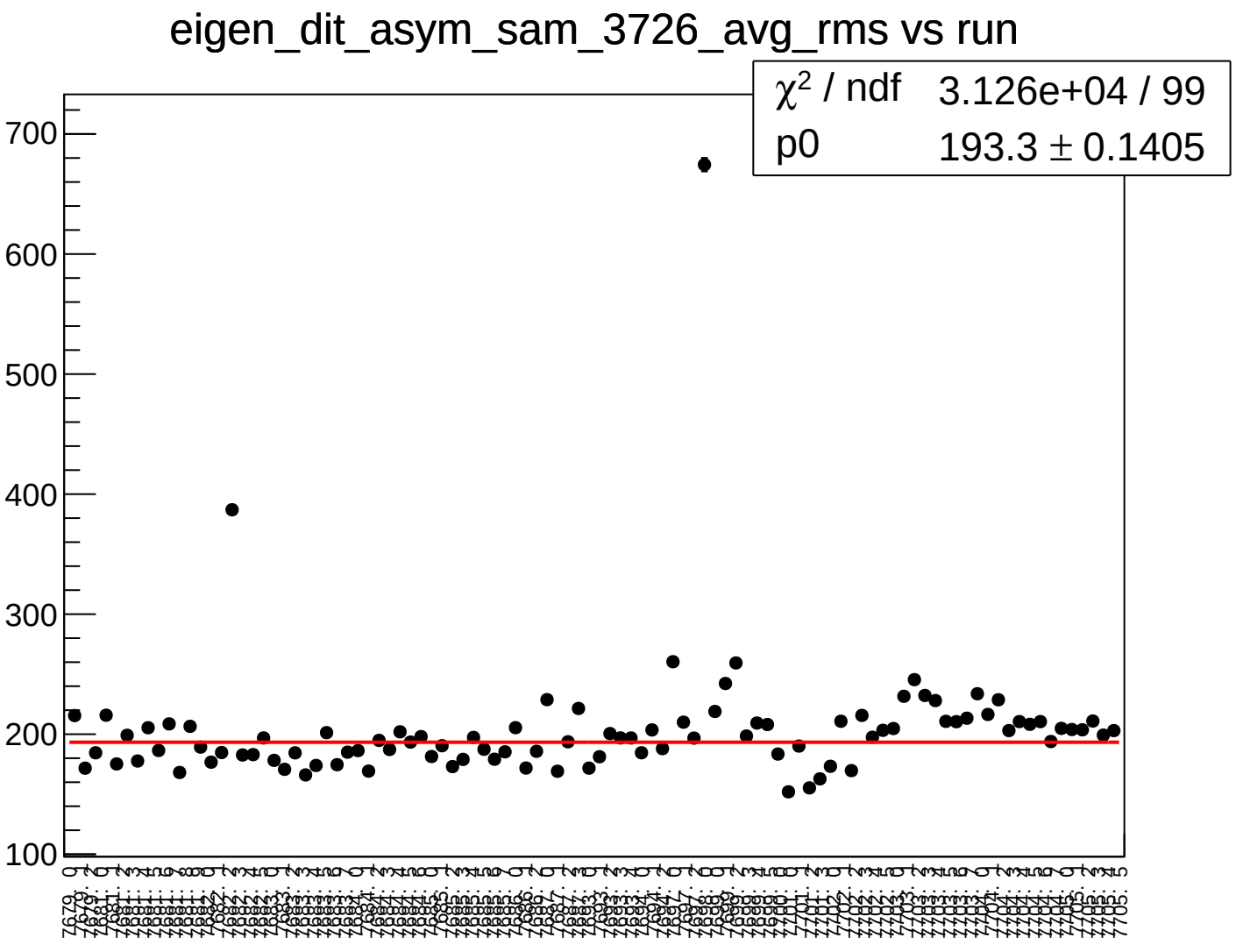

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 3.126e+04 / 99
p0 193.3 ± 0.1405
700
600
500
400
300
200
100

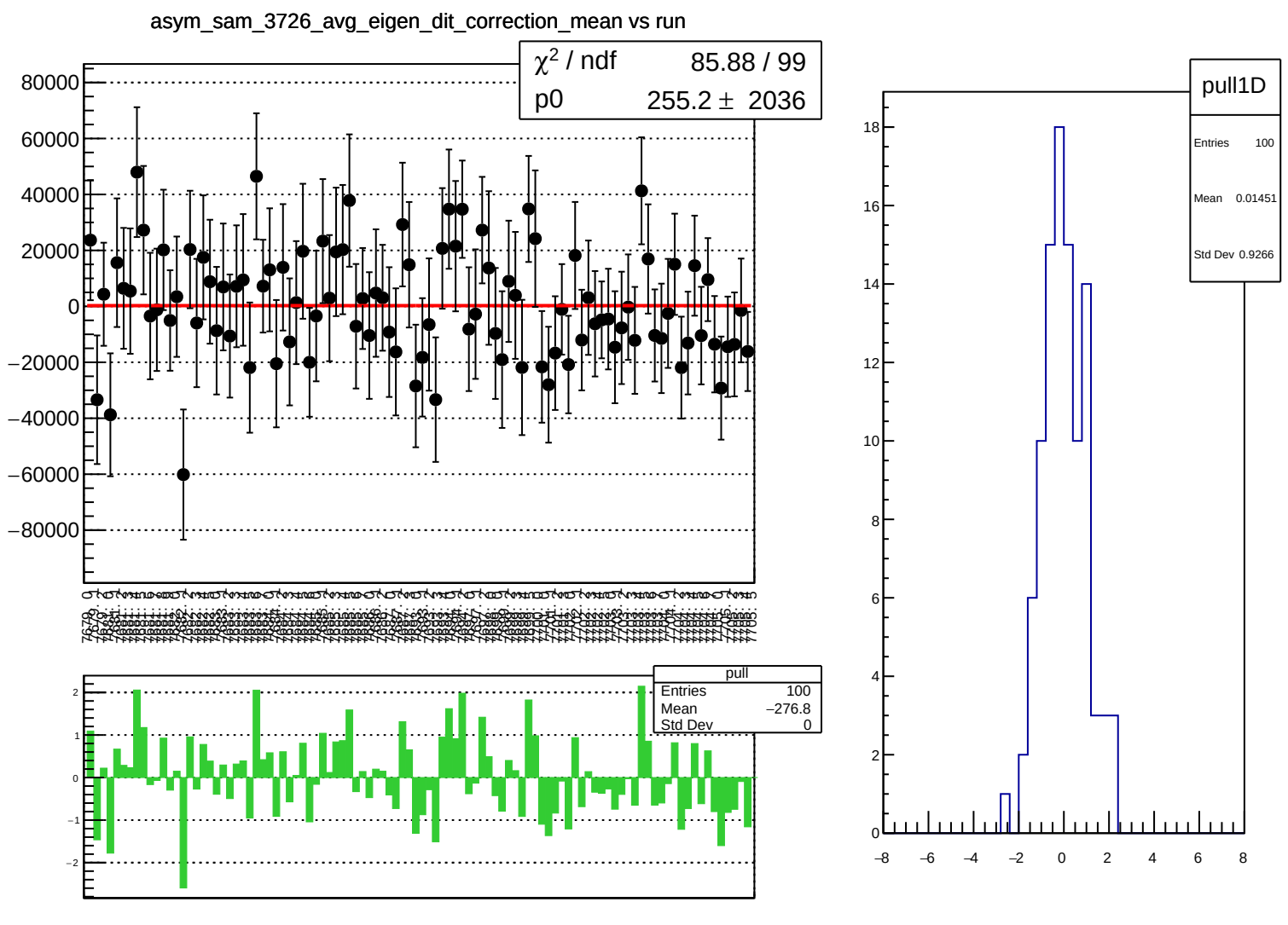

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 85.88 / 99
p0 255.2 ± 2036
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −276.8
Std Dev 0
2
1
0
−1
−2

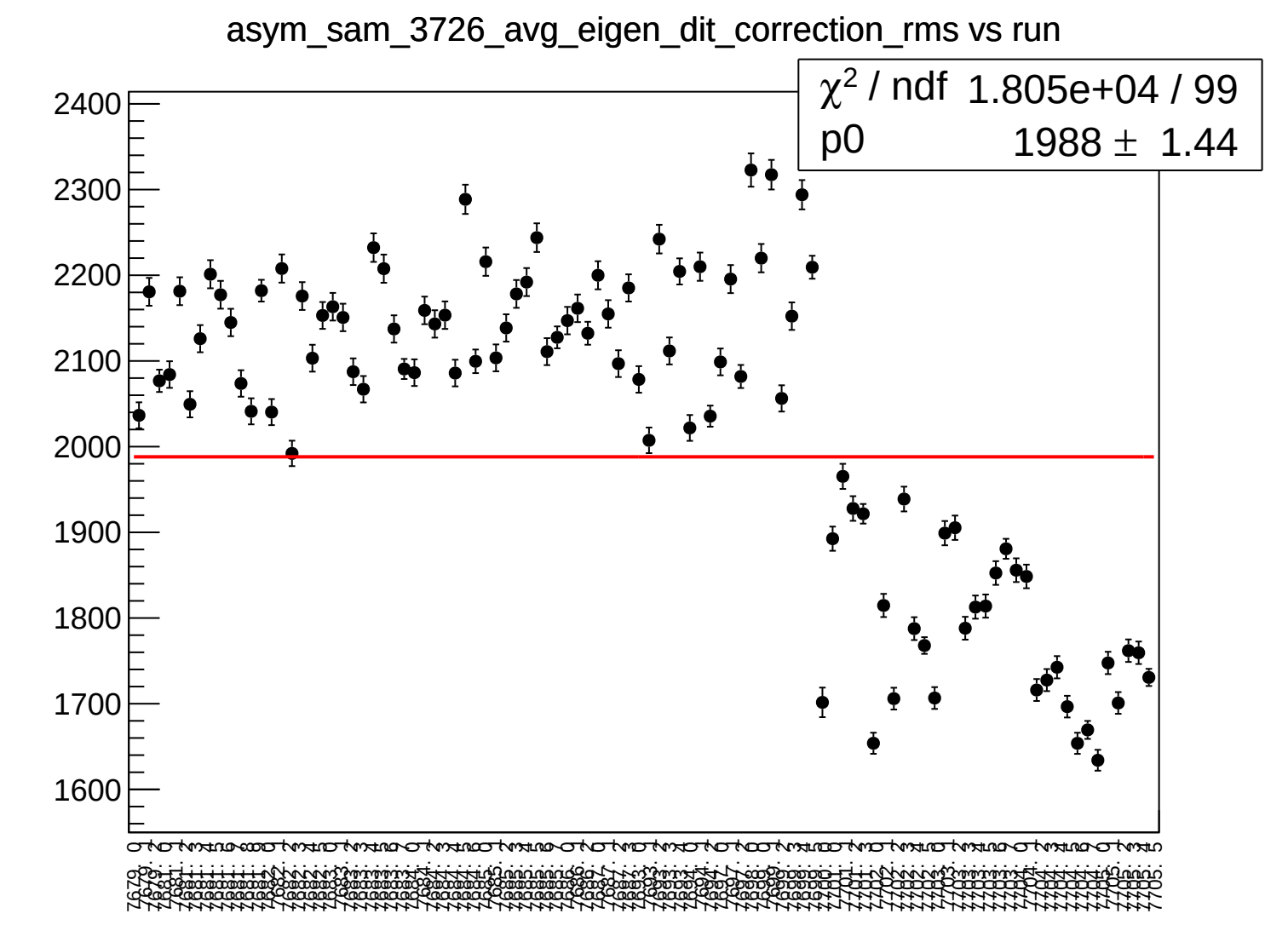

pull1D
Entries 100
Mean 0.01452
Std Dev 0.9266
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

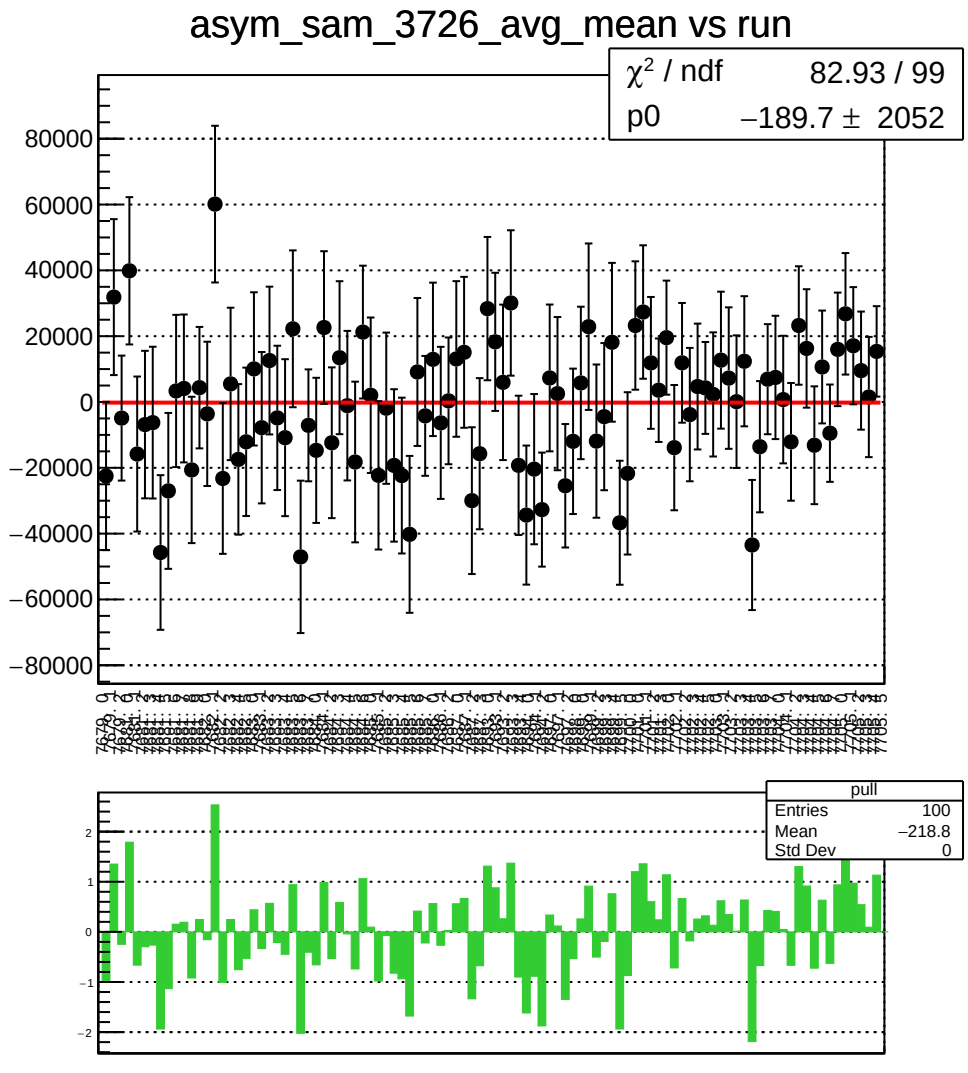

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 1.805e+04 / 99
p0 1988 ± 1.44
2400
2300
2200
2100
2000
1900
1800
1700
1600

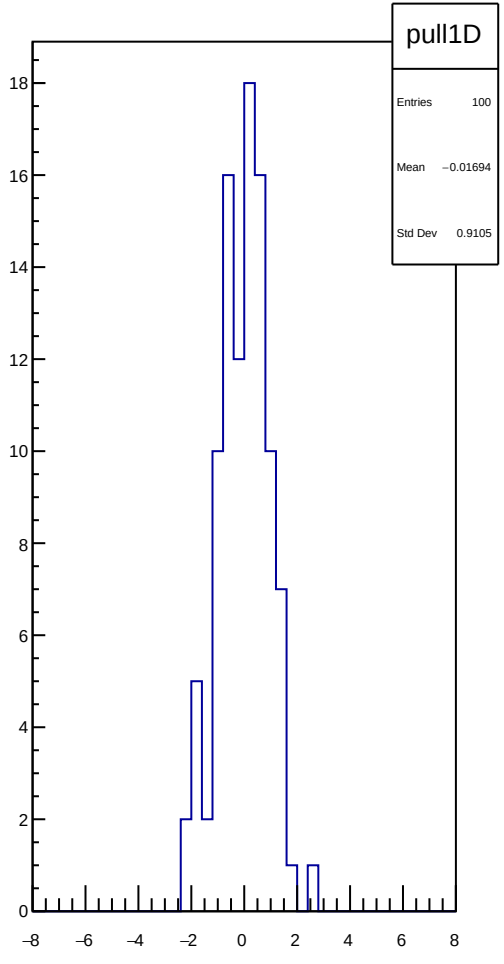

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 91.26 / 99
p0 0.09051 ± 198.6
pull
Entries 100
Mean 299.7
Std Dev 0
pull1D
Entries 100
Mean −0.007773
Std Dev 0.9553

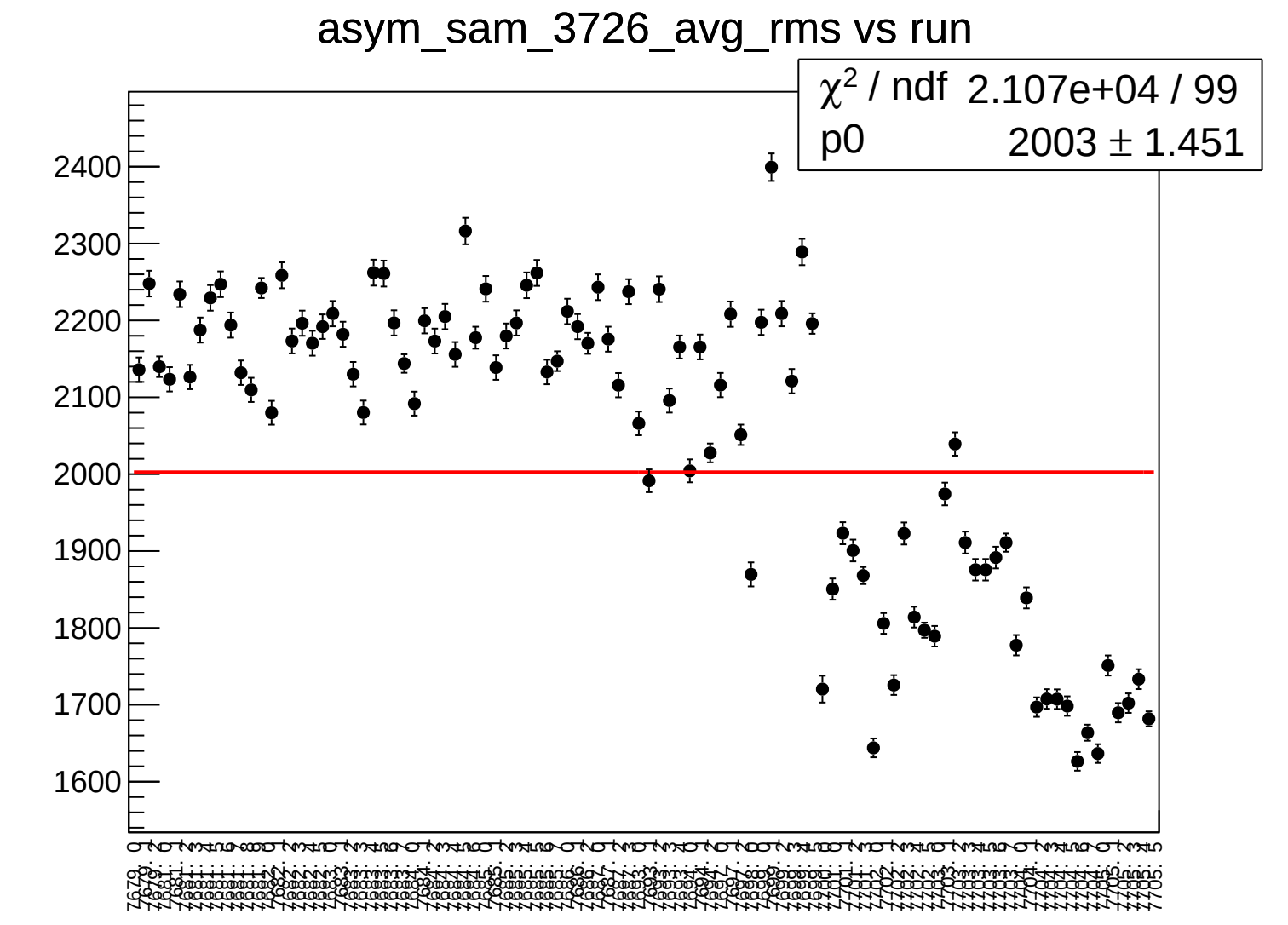

eigen_dit_asym_sam_3726_avg_rms vs run
χ^2 / ndf 3.126e+04 / 99
p0 193.3 ± 0.1405
700
600
500
400
300
200
100

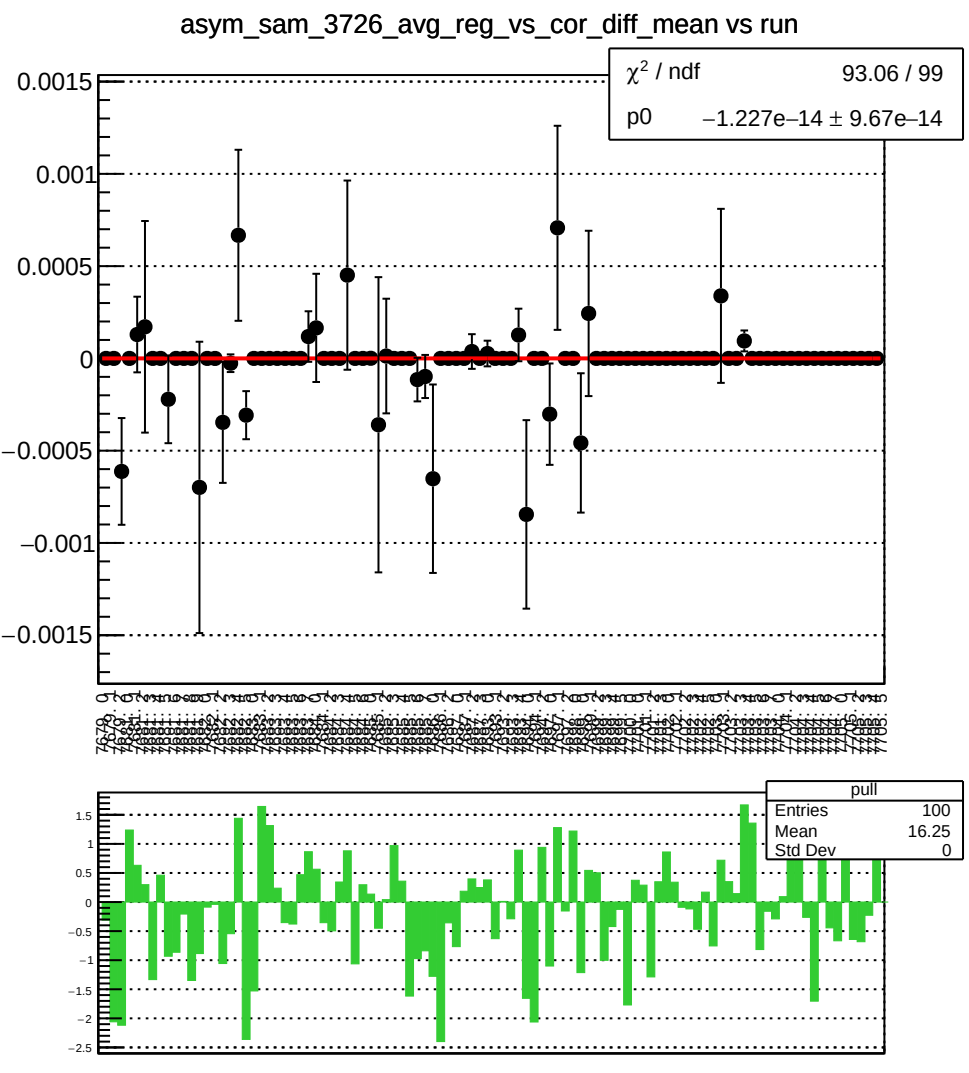

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 85.88 / 99
p0 255.2 ± 2036
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −276.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.01451
Std Dev 0.9266
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

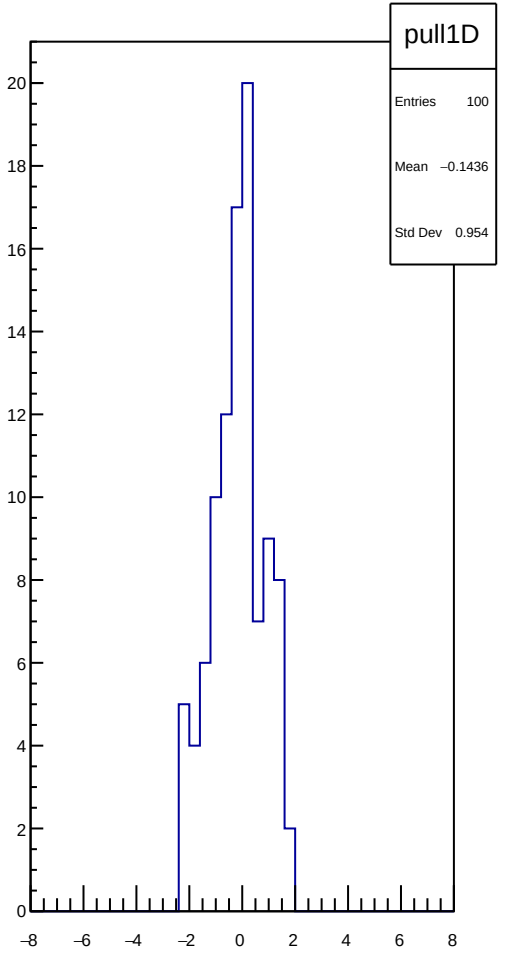

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.805e+04 / 99
p0 1988 ± 1.44
2400
2300
2200
2100
2000
1900
1800
1700
1600

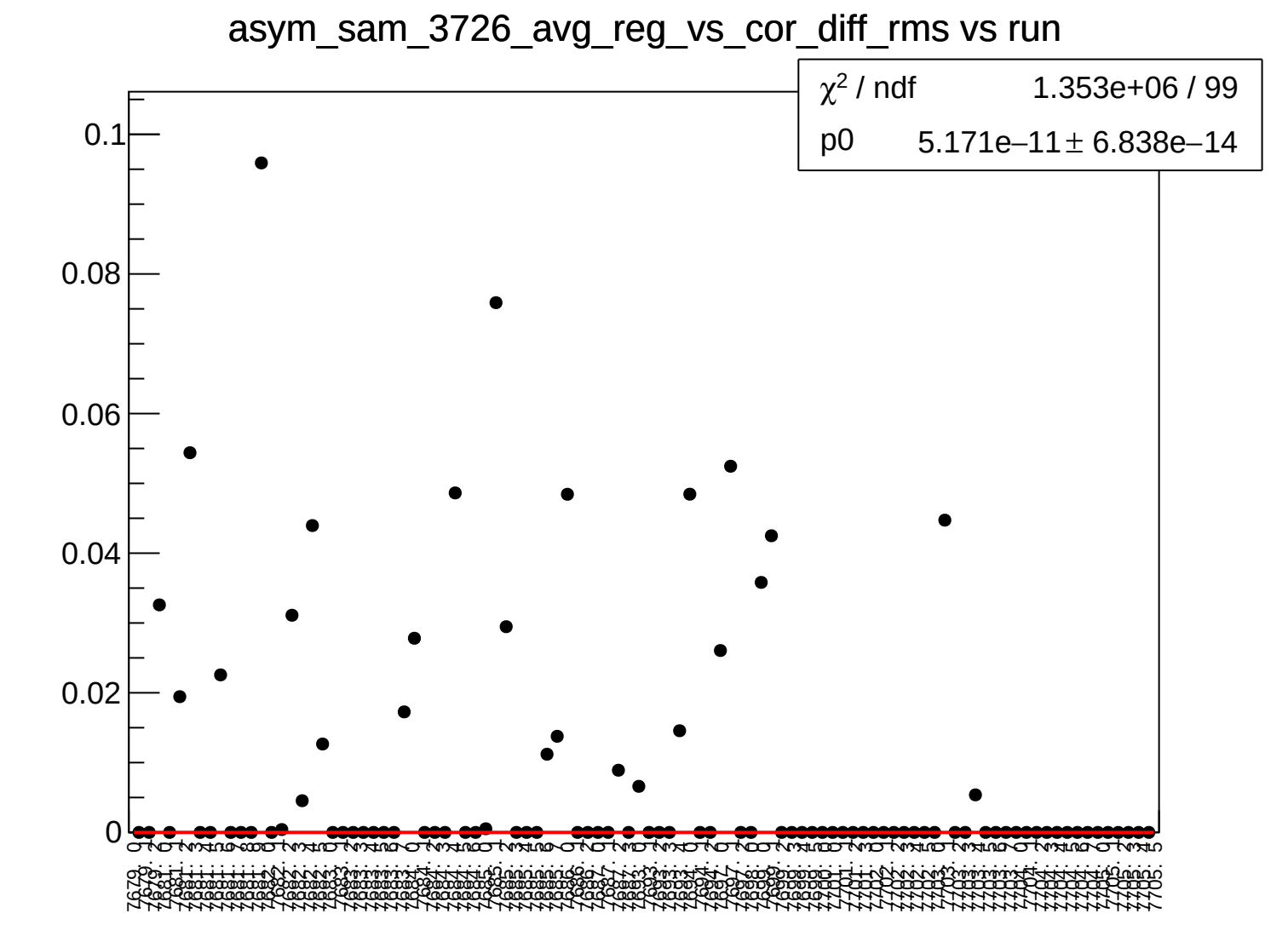

asym_sam_3726_avg_mean vs run
χ² / ndf 82.93 / 99
p0 −189.7 ± 2052
pull
Entries 100
Mean −218.8
Std Dev 0

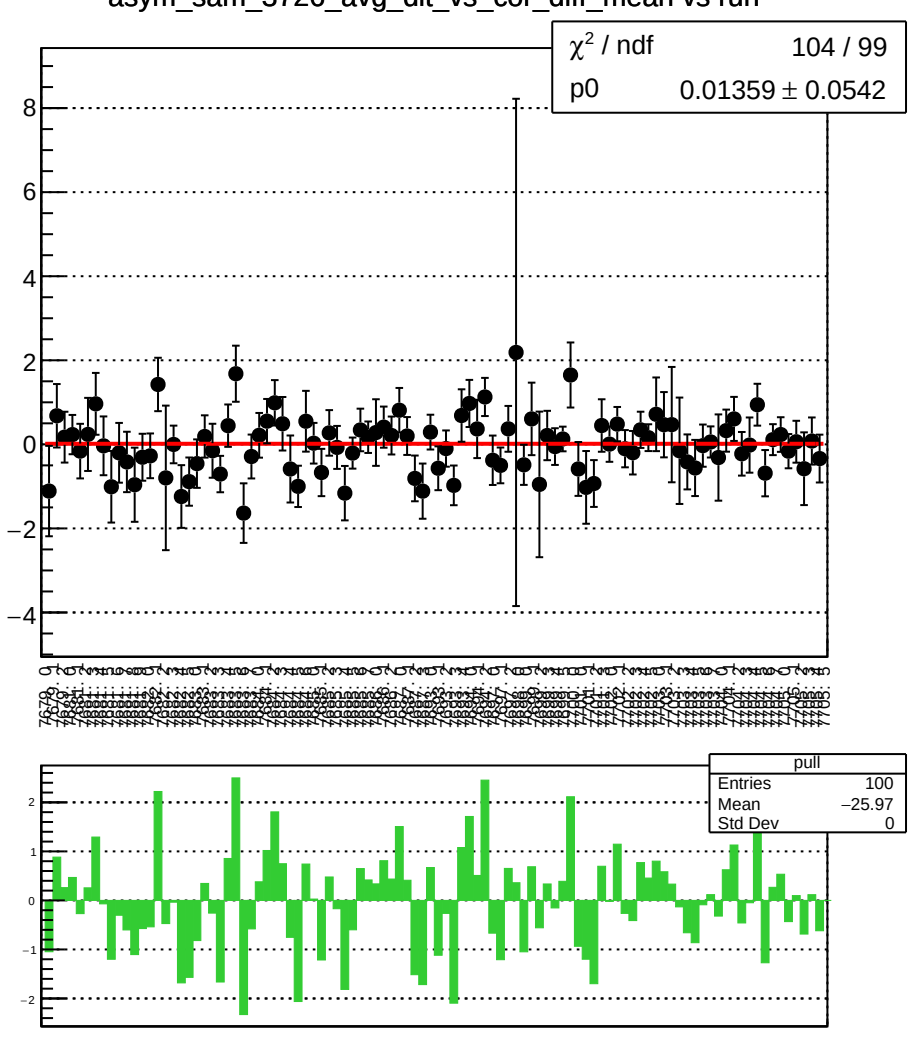

pull1D
Entries 100
Mean −0.01694
Std Dev 0.9105

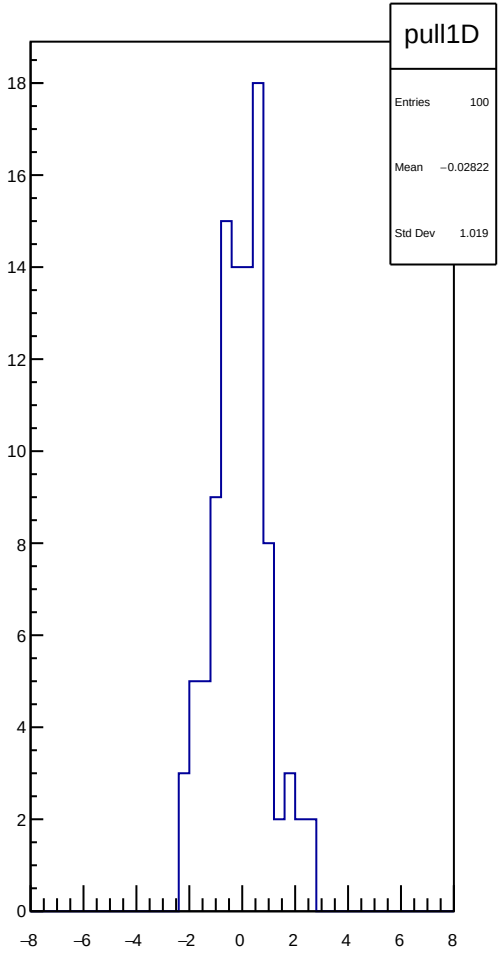

asym_sam_3726_avg_rms vs run
χ² / ndf 2.107e+04 / 99
p0 2003 ± 1.451
2400
2300
2200
2100
2000
1900
1800
1700
1600

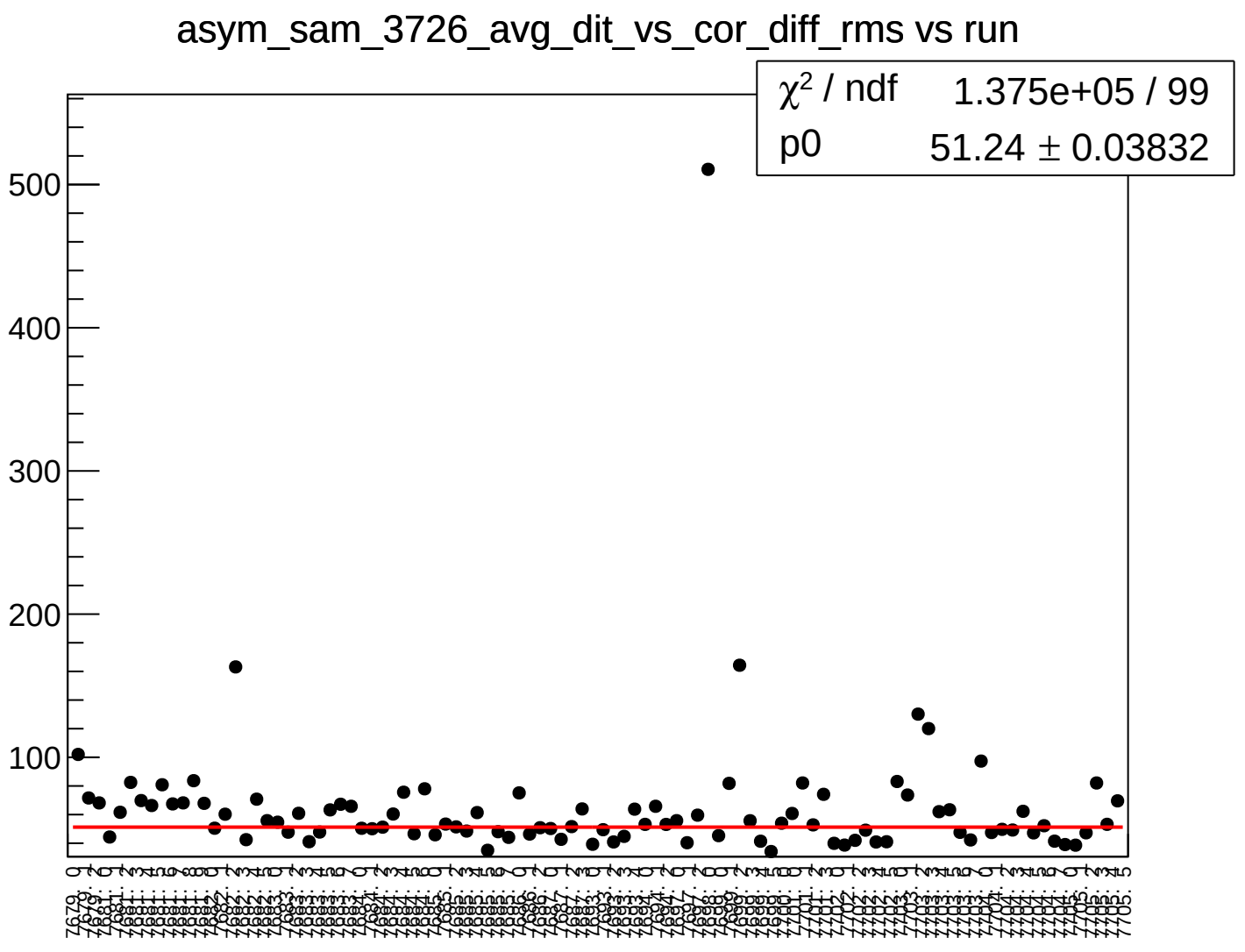

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 93.06 / 99
p0 −1.227e−14 ± 9.67e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 100
Mean 16.25
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

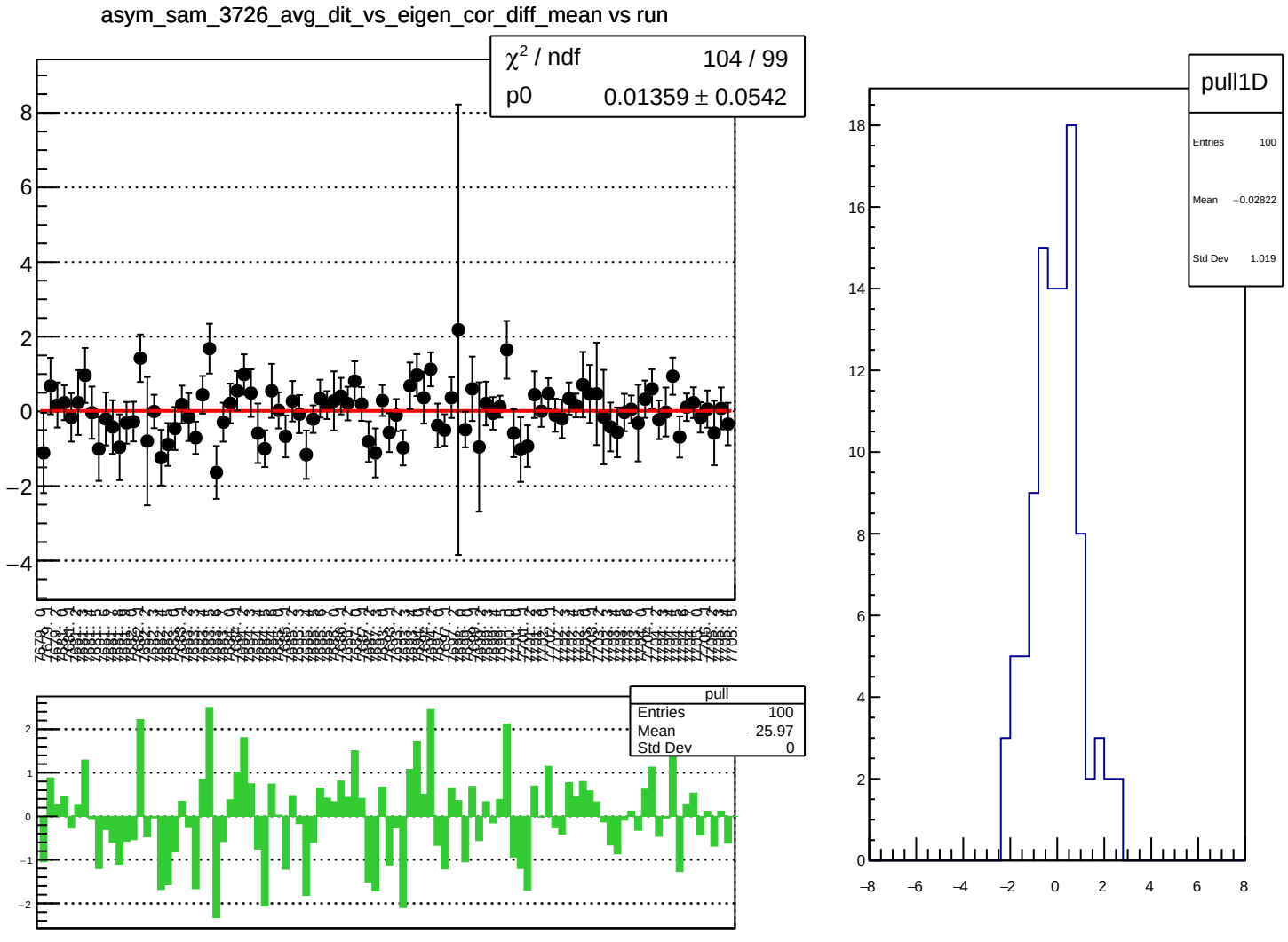

pull1D
Entries 100
Mean −0.1436
Std Dev 0.954
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

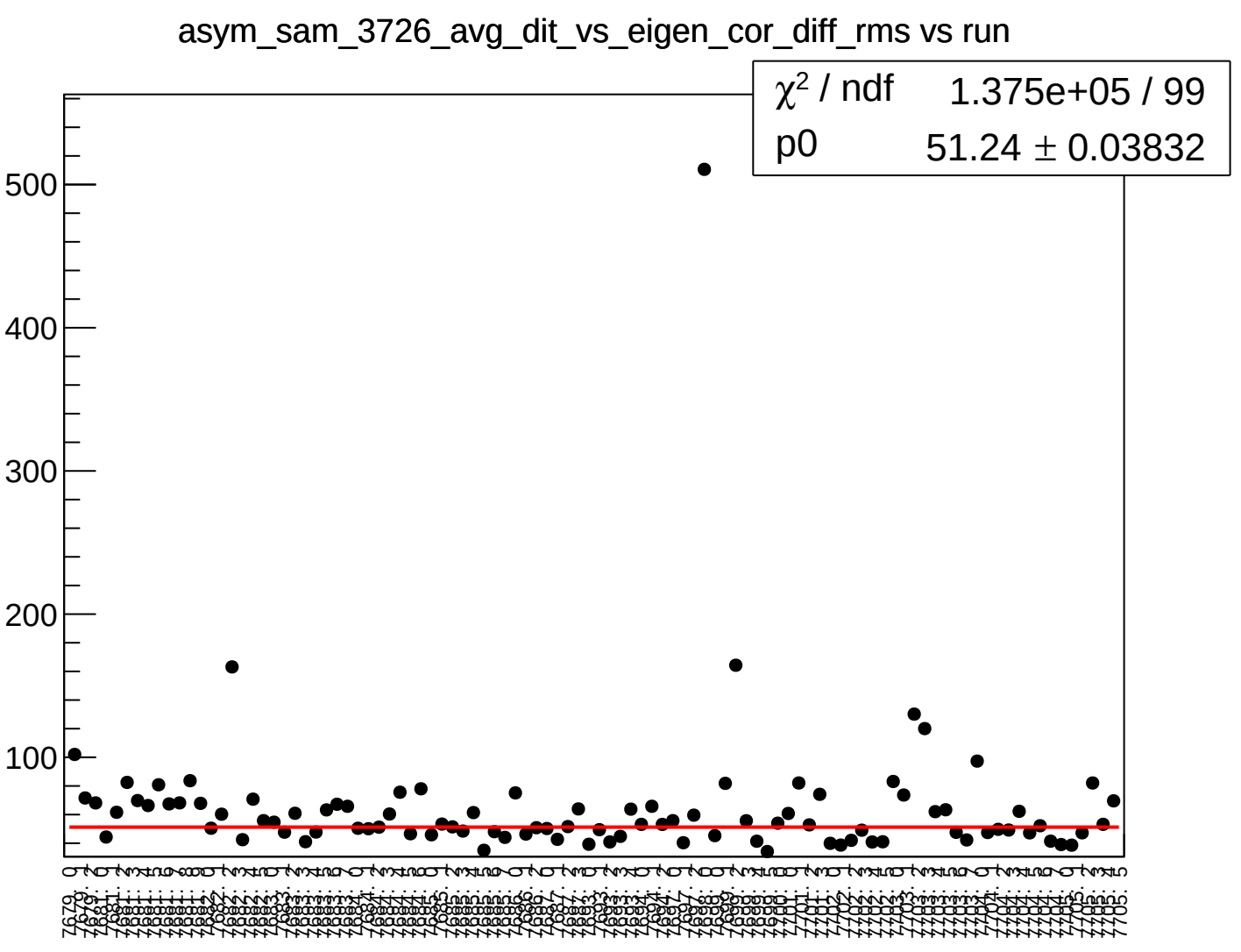

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.353e+06 / 99
p0 5.171e−11 ± 6.838e−14
0.1
0.08
0.06
0.04
0.02
0

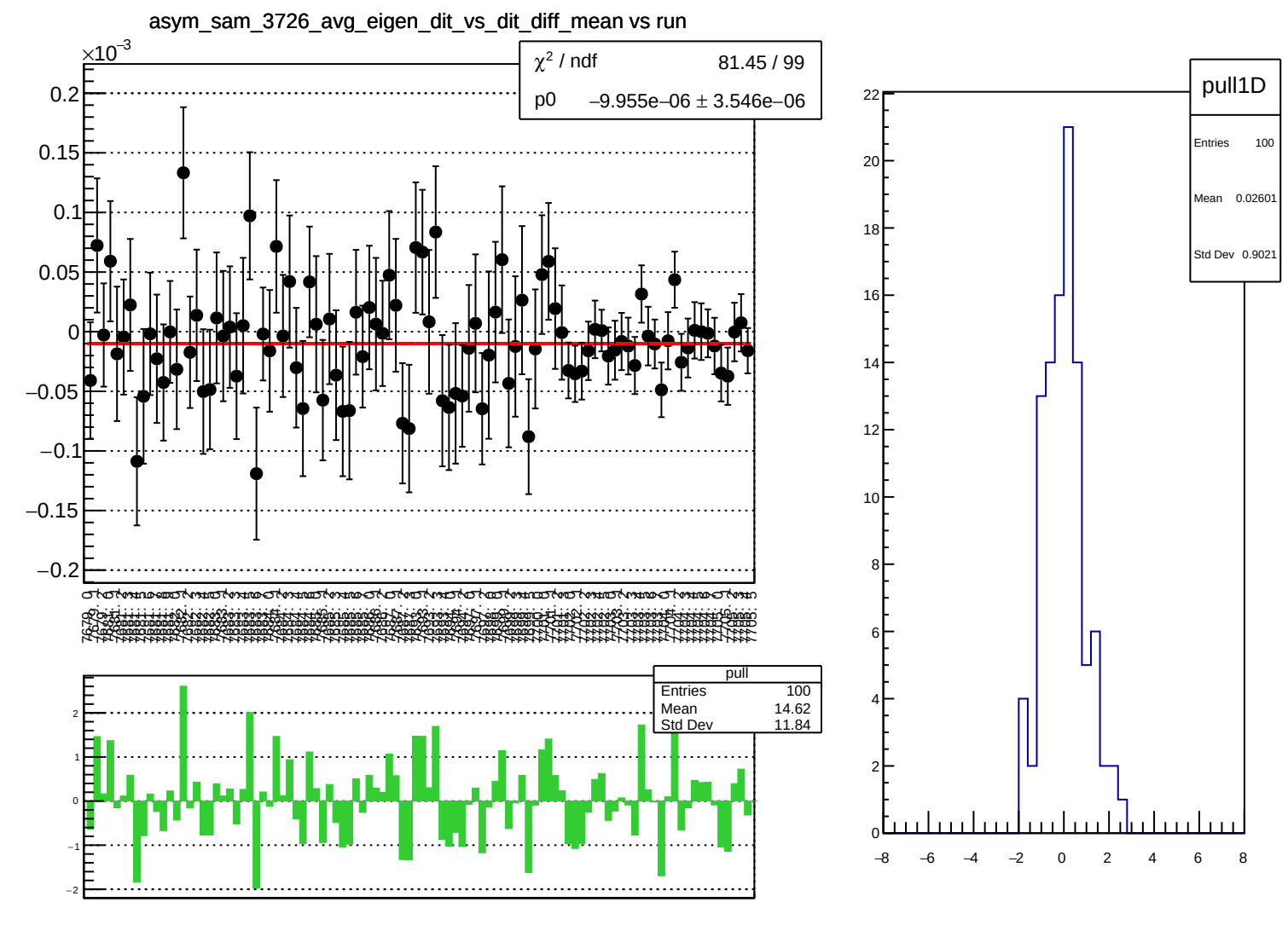

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 104 / 99
p0 0.01359 ± 0.0542
pull
Entries 100
Mean −25.97
Std Dev 0

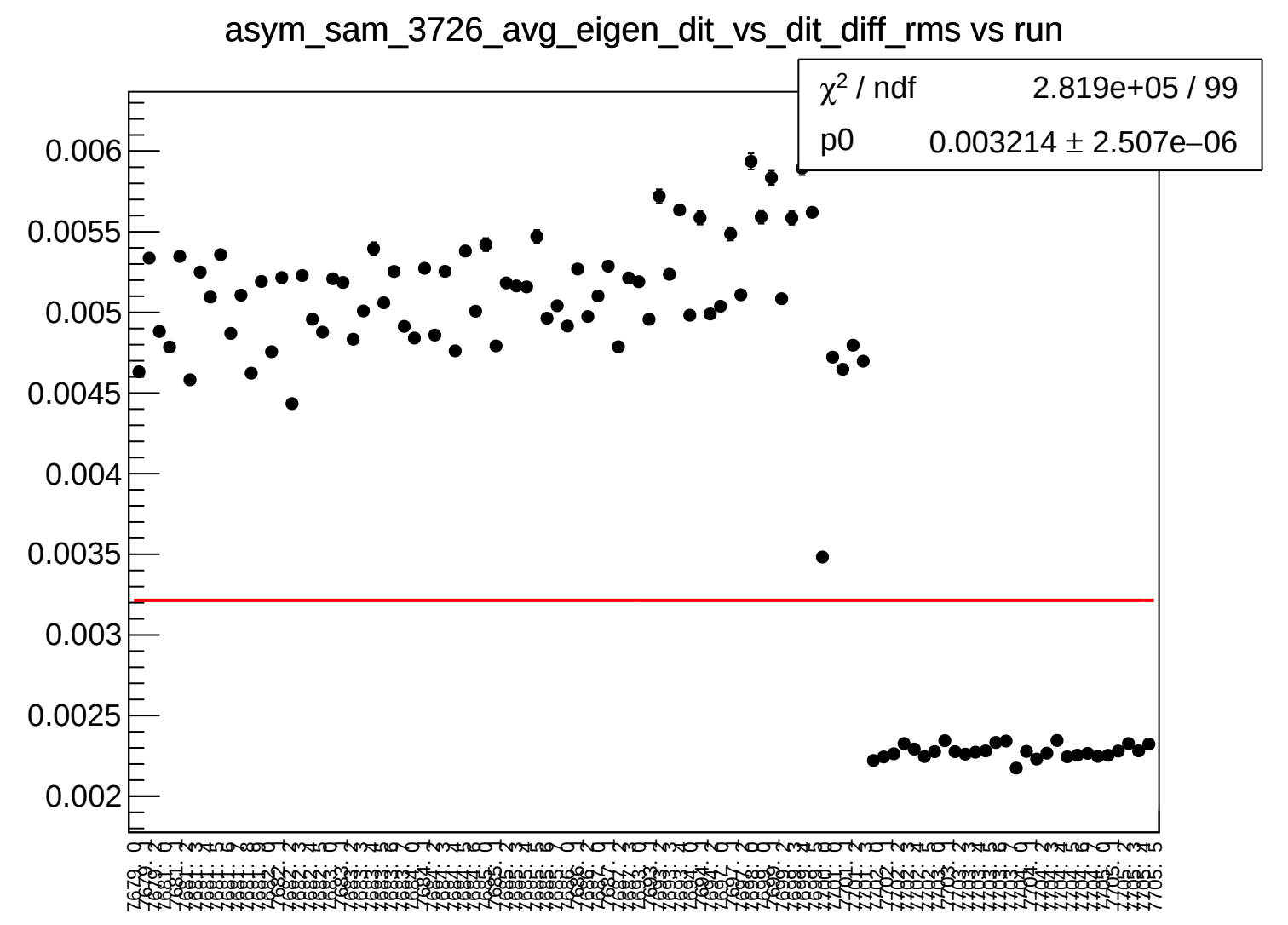

pull1D
Entries 100
Mean −0.02822
Std Dev 1.019

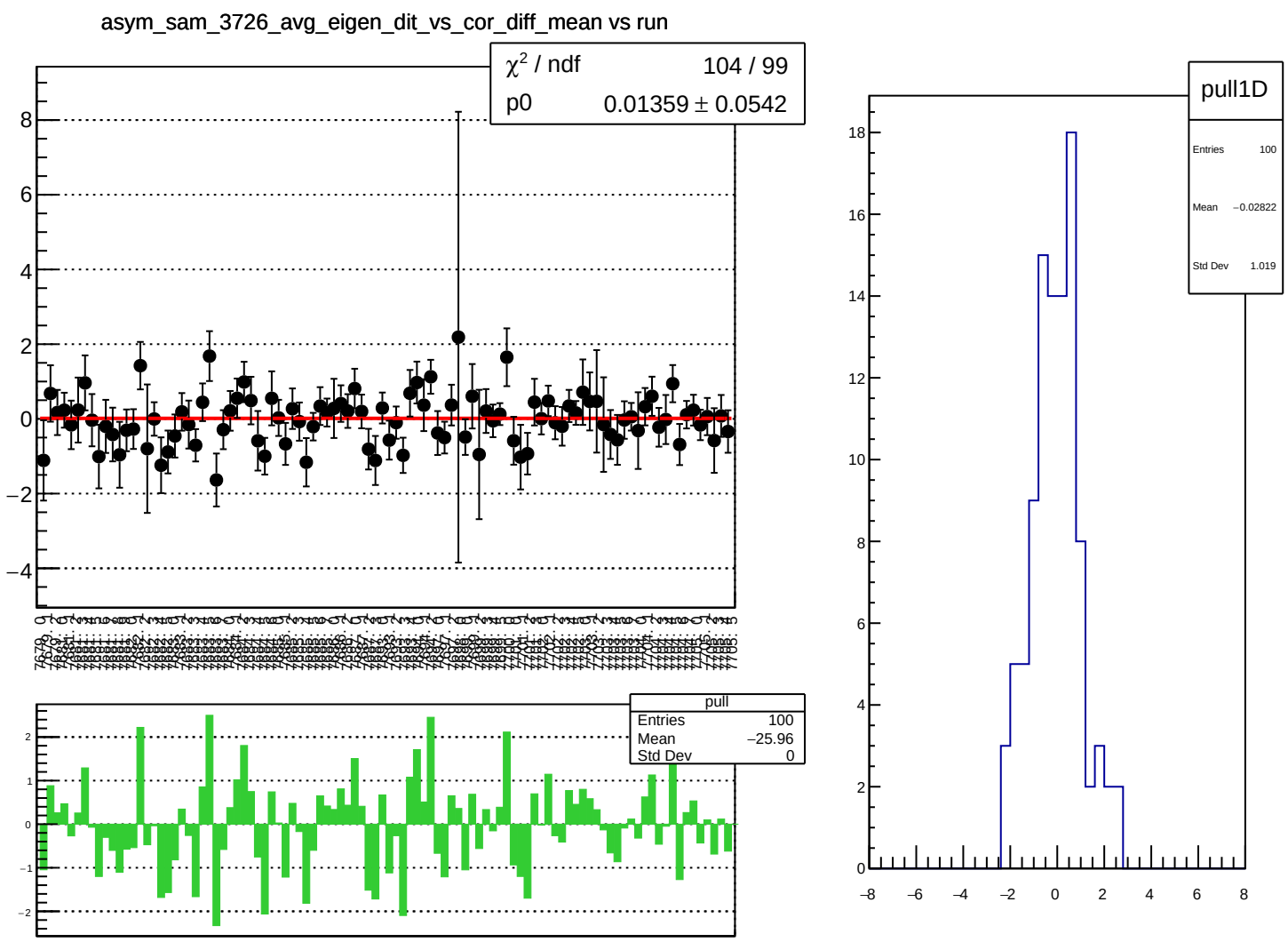

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.375e+05 / 99
p0 51.24 ± 0.03832
500
400
300
200
100

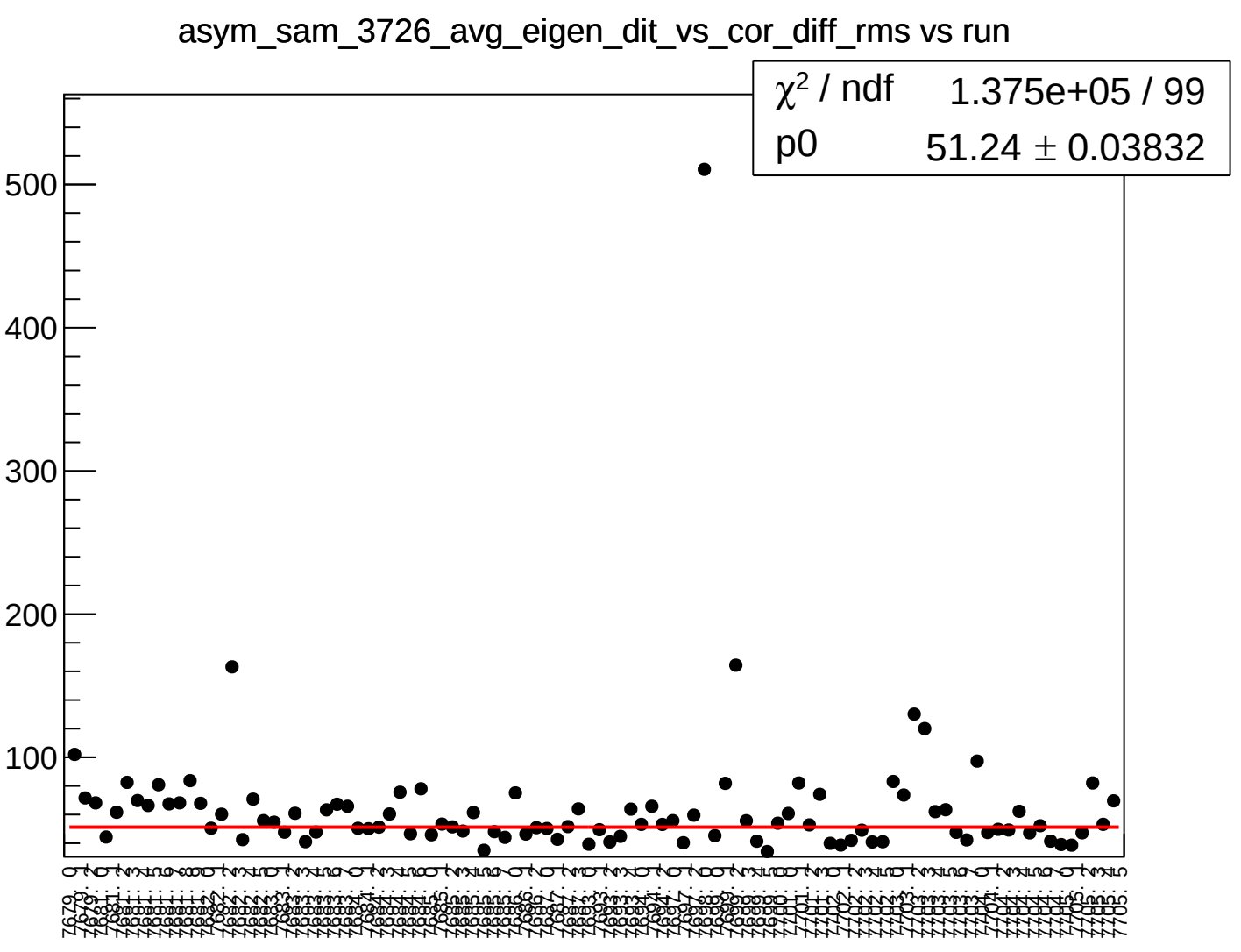

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104 / 99
p0 0.01359 ± 0.0542
pull
Entries 100
Mean −25.97
Std Dev 0
pull1D
Entries 100
Mean −0.02822
Std Dev 1.019

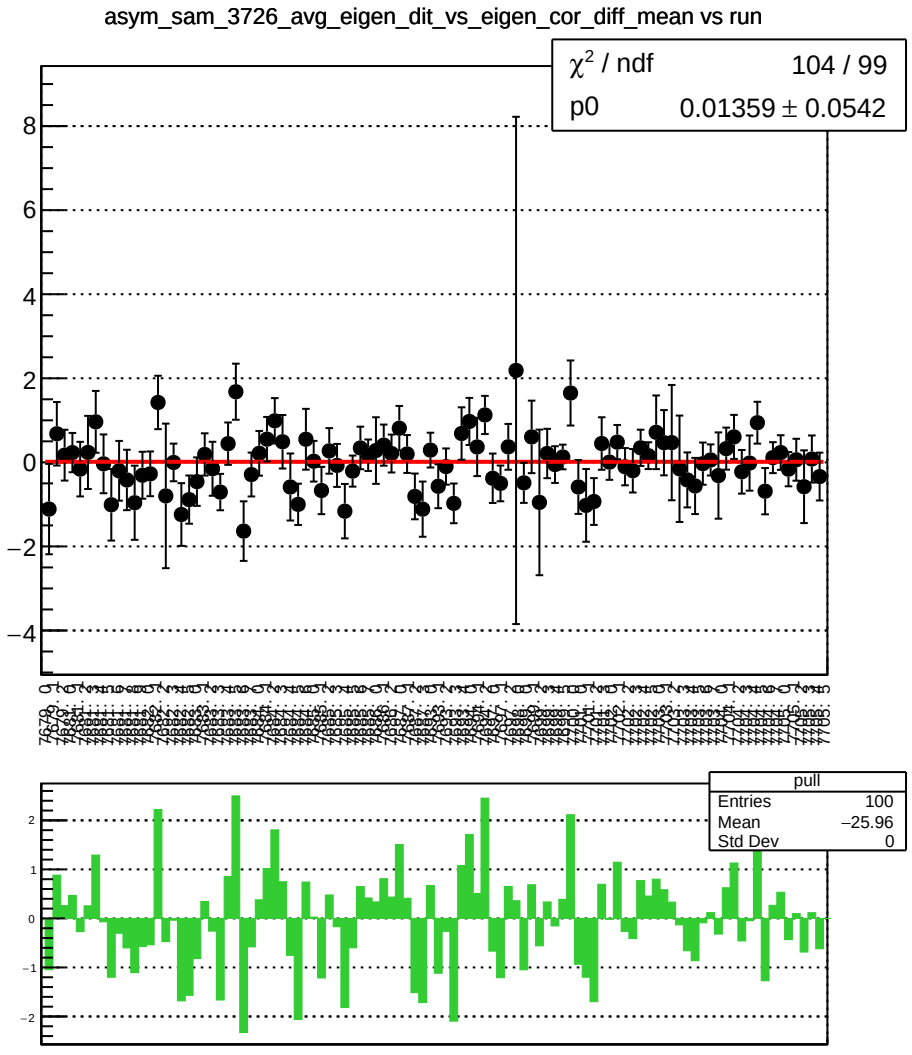

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.375e+05 / 99
p0 51.24 ± 0.03832
500
400
300
200
100

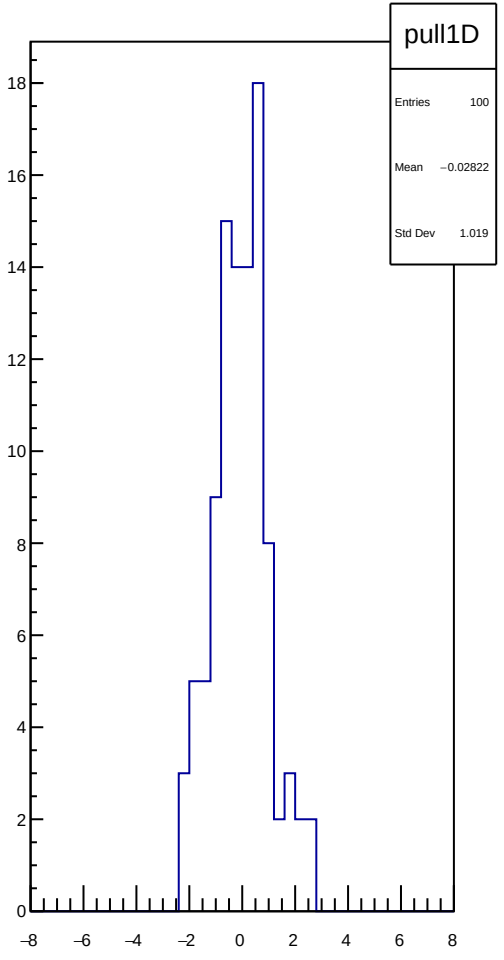

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.45 / 99
p0 −9.955e−06 ± 3.546e−06
pull
Entries 100
Mean 14.62
Std Dev 11.84
pull1D
Entries 100
Mean 0.02601
Std Dev 0.9021

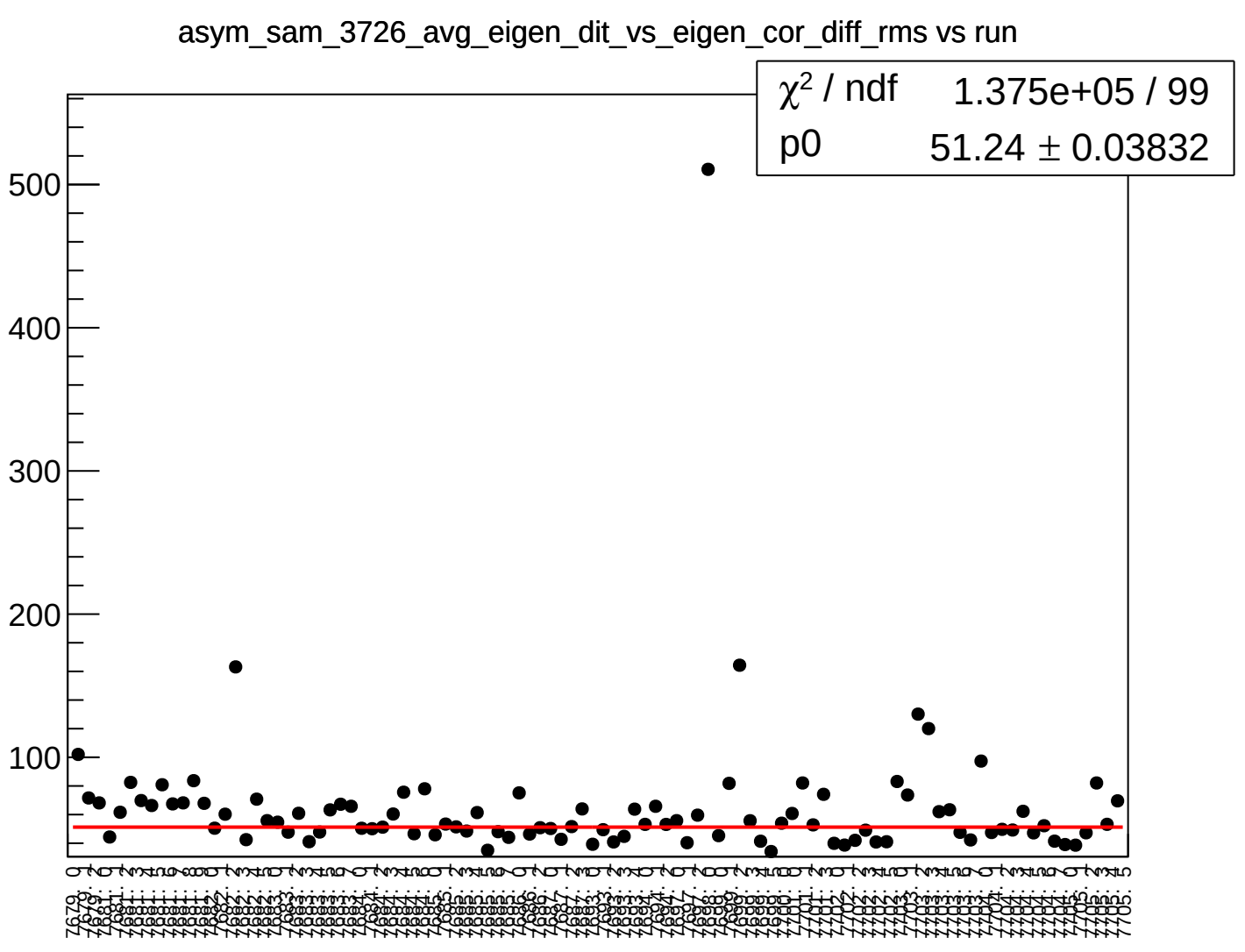

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.819e+05 / 99
p0 0.003214 ± 2.507e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

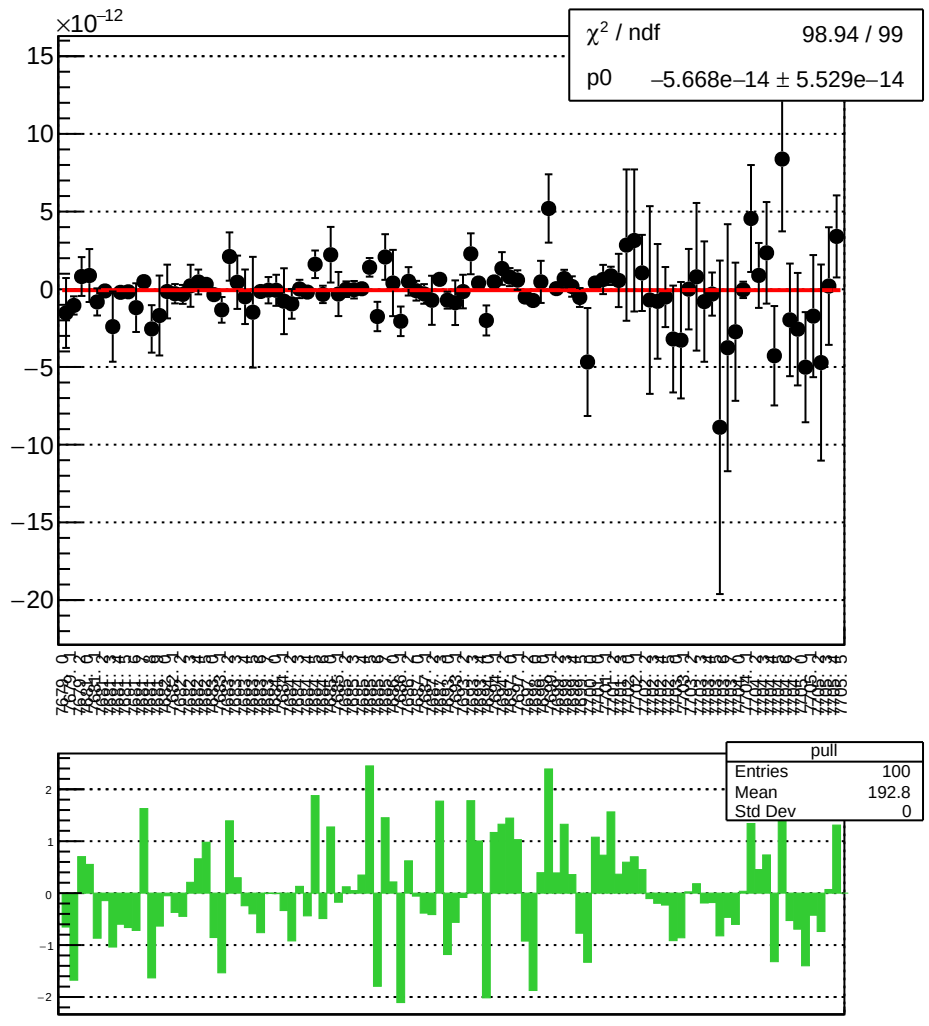

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104 / 99
p0 0.01359 ± 0.0542
pull
Entries 100
Mean −25.96
Std Dev 0
pull1D
Entries 100
Mean −0.02822
Std Dev 1.019

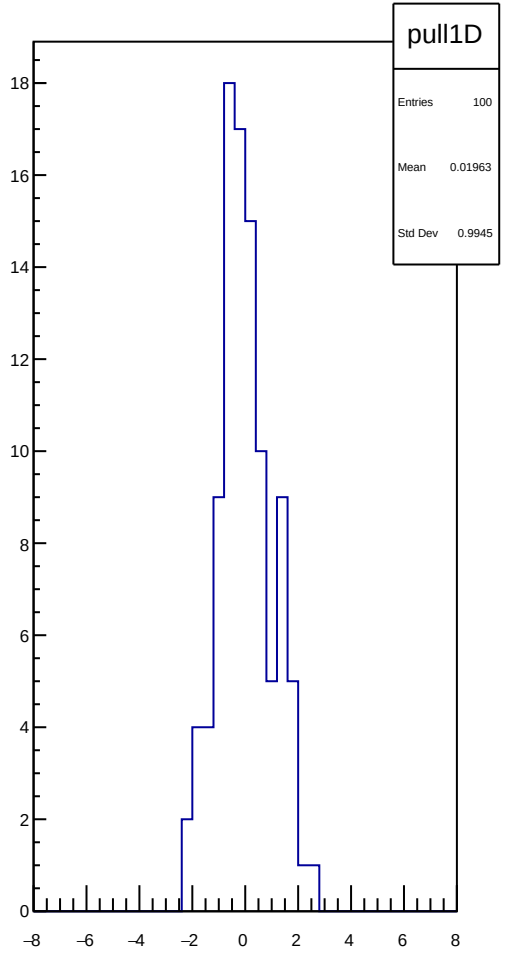

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.375e+05 / 99
p0 51.24 ± 0.03832
500
400
300
200
100

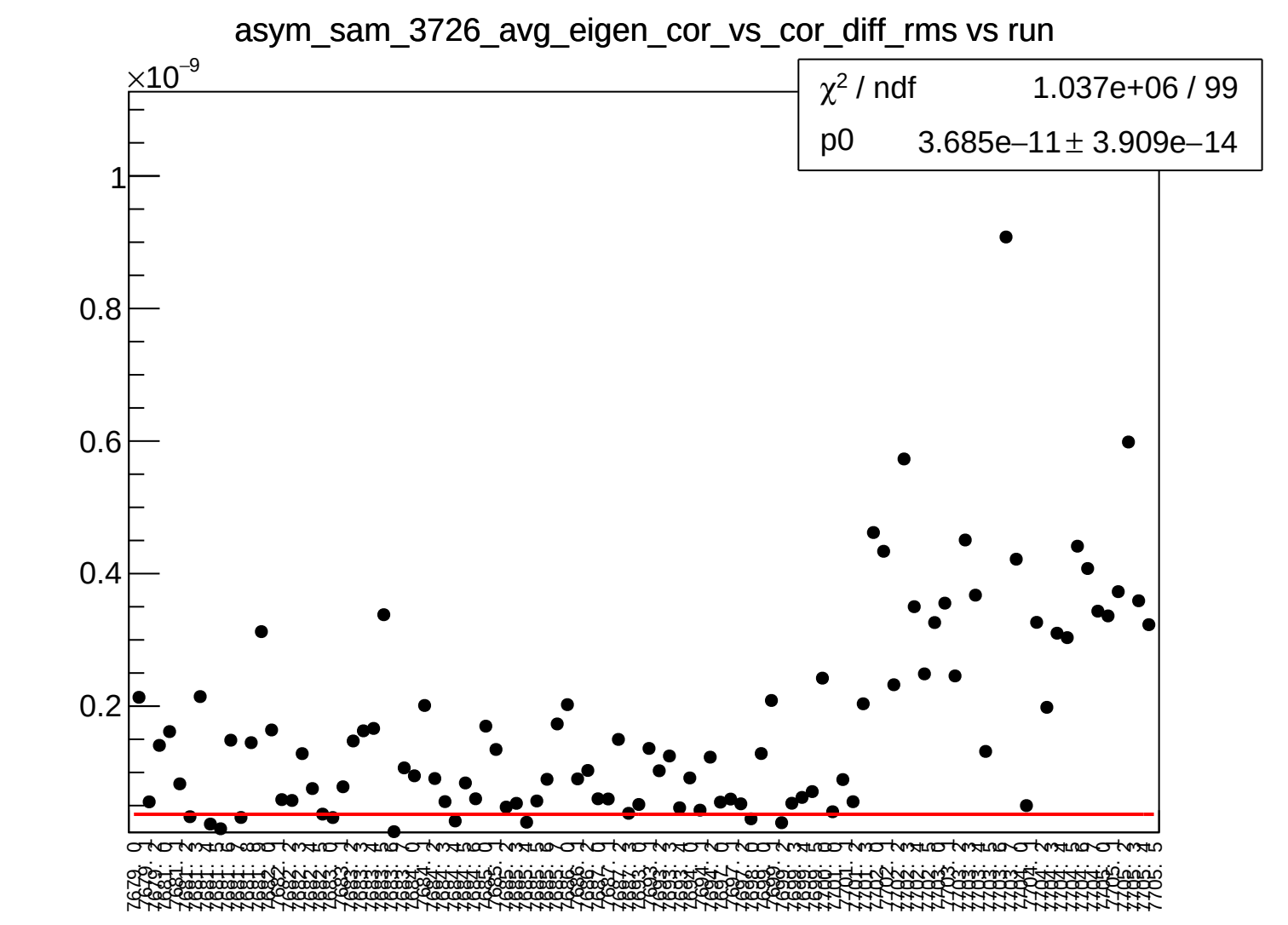

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104 / 99
p0 0.01359 ± 0.0542
pull
Entries 100
Mean −25.96
Std Dev 0

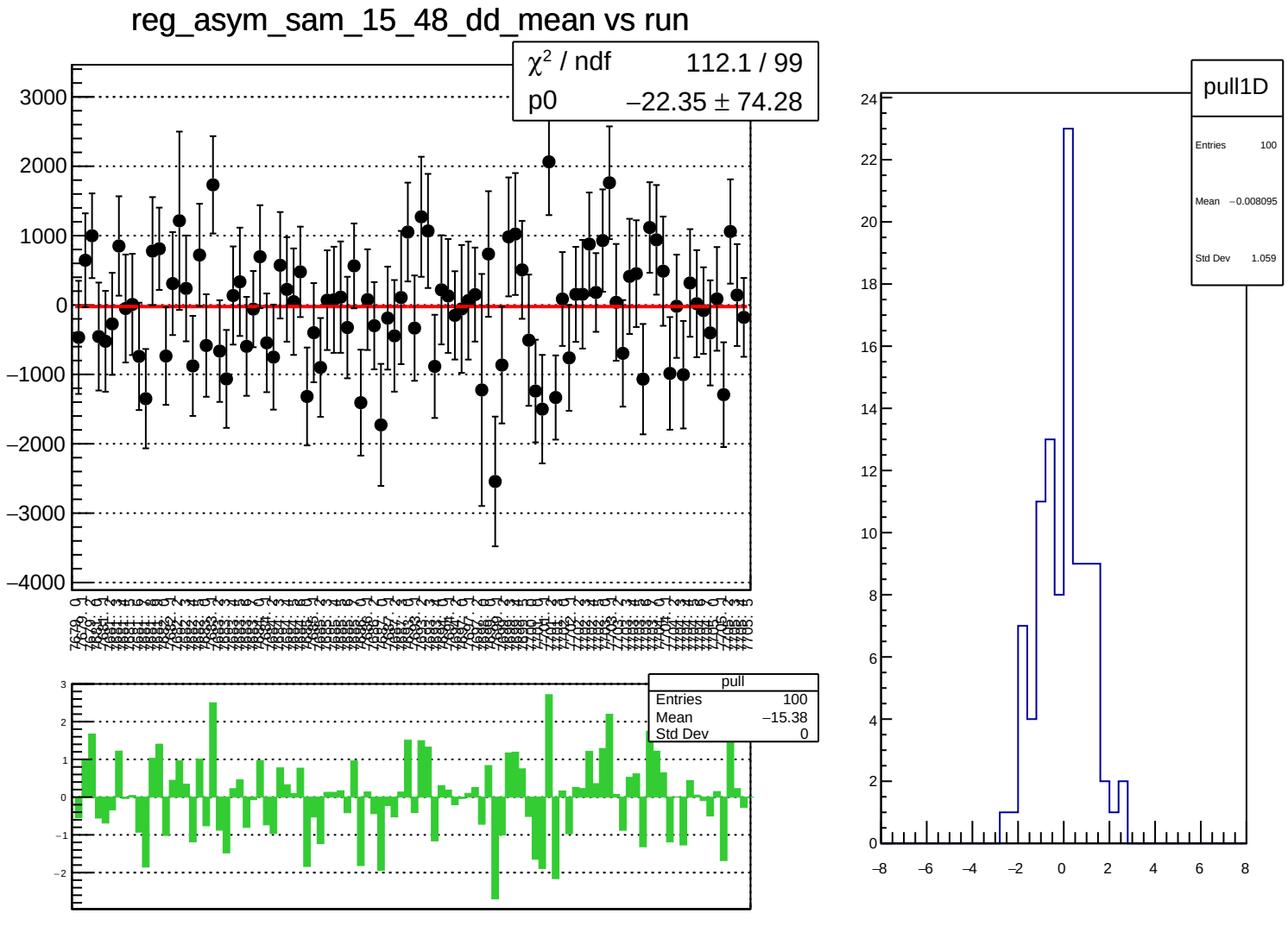

pull1D
Entries 100
Mean −0.02822
Std Dev 1.019

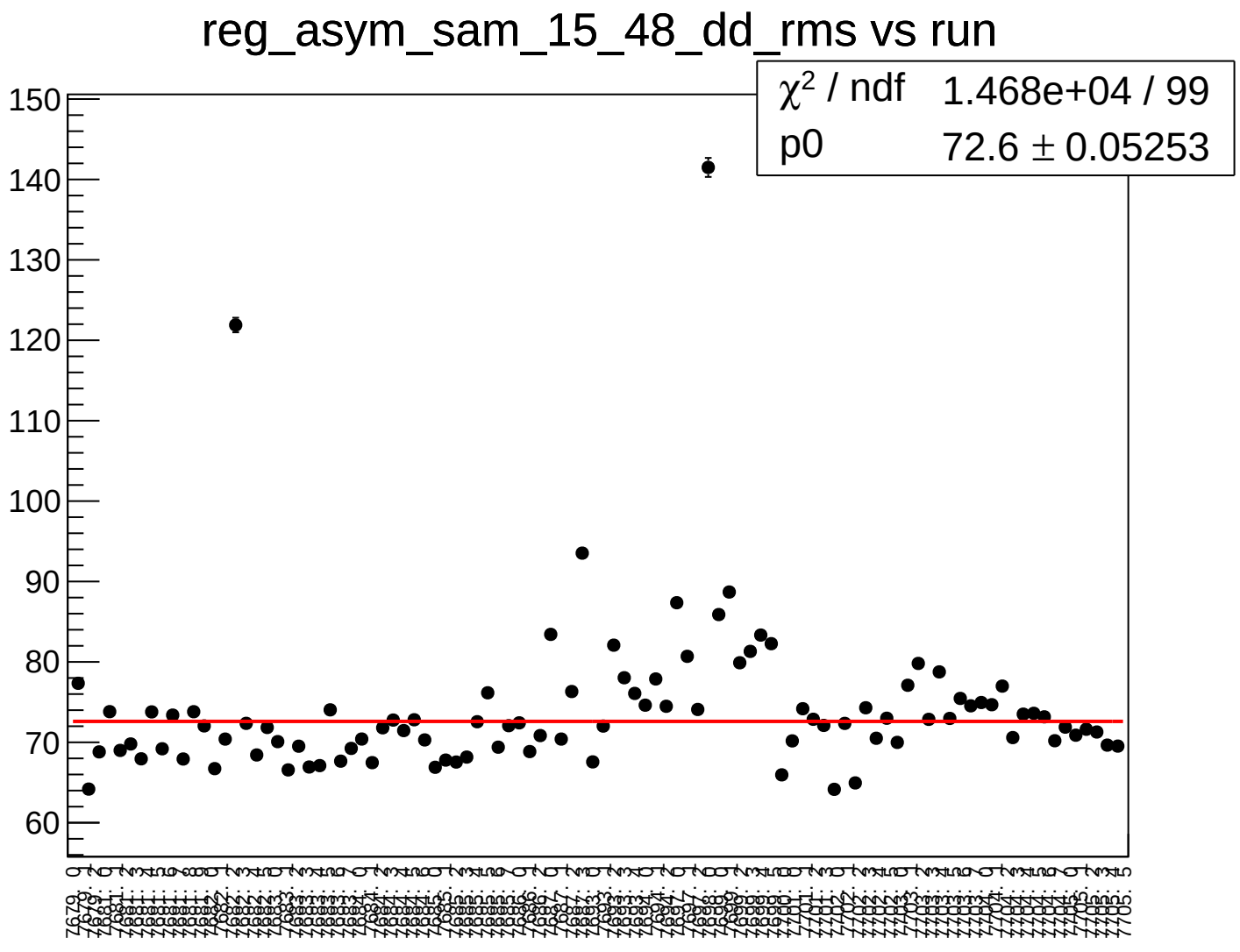

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.375e+05 / 99
p0 51.24 ± 0.03832
500
400
300
200
100

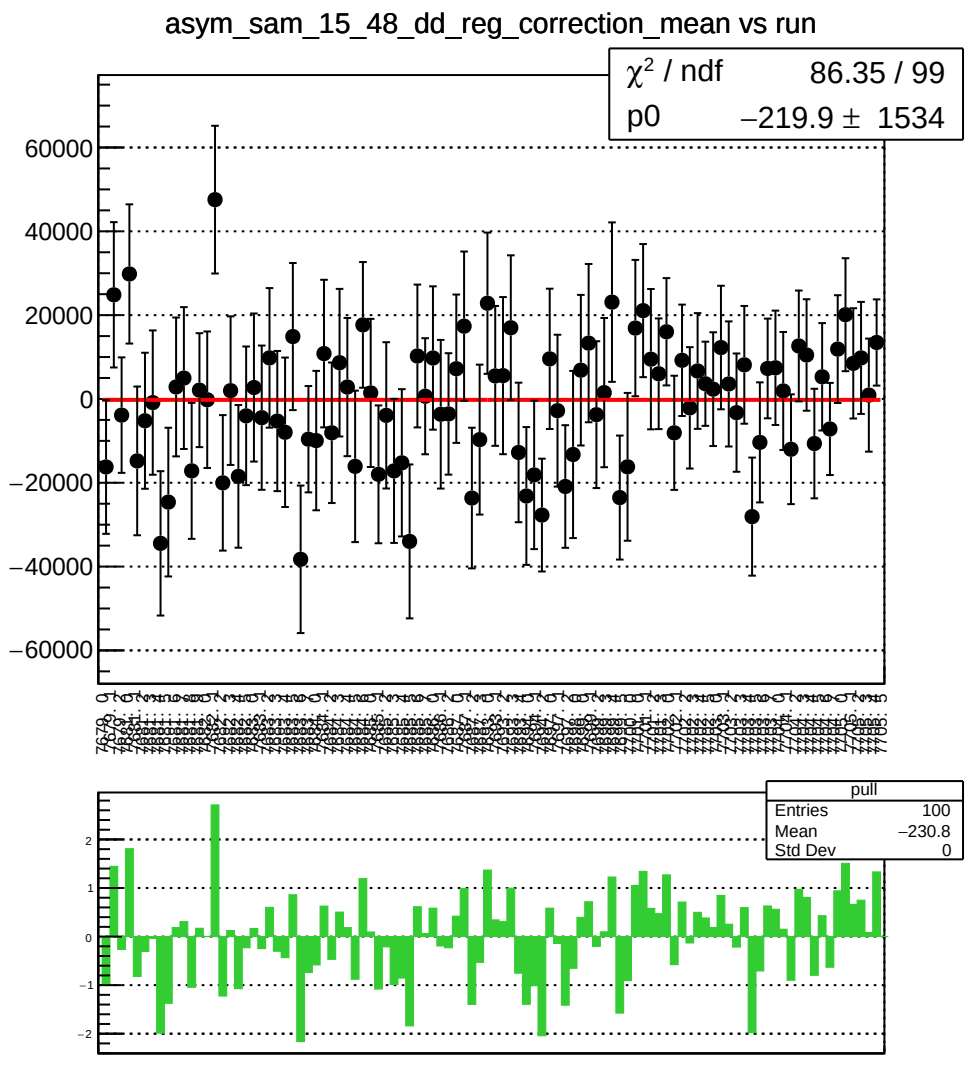

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.94 / 99
p0 −5.668e−14 ± 5.529e−14
pull
Entries 100
Mean 192.8
Std Dev 0

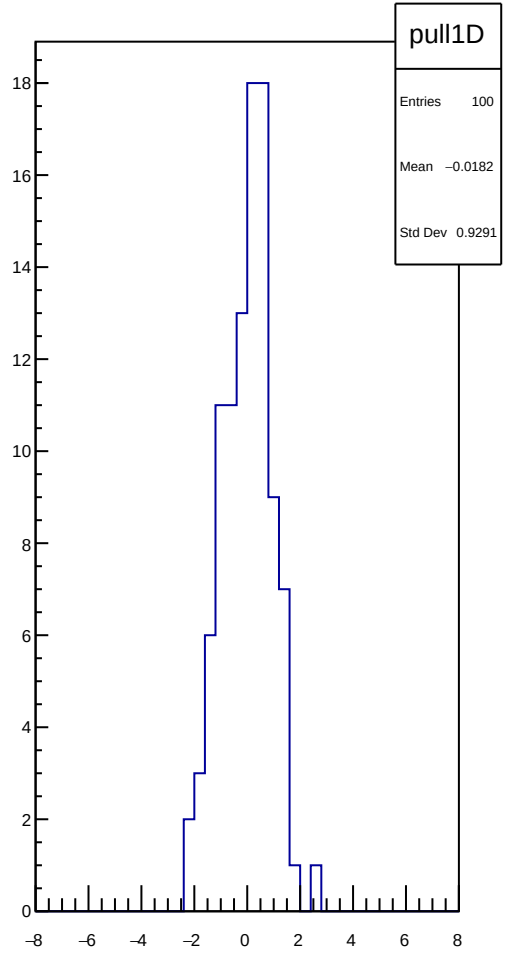

pull1D
Entries 100
Mean 0.01963
Std Dev 0.9945

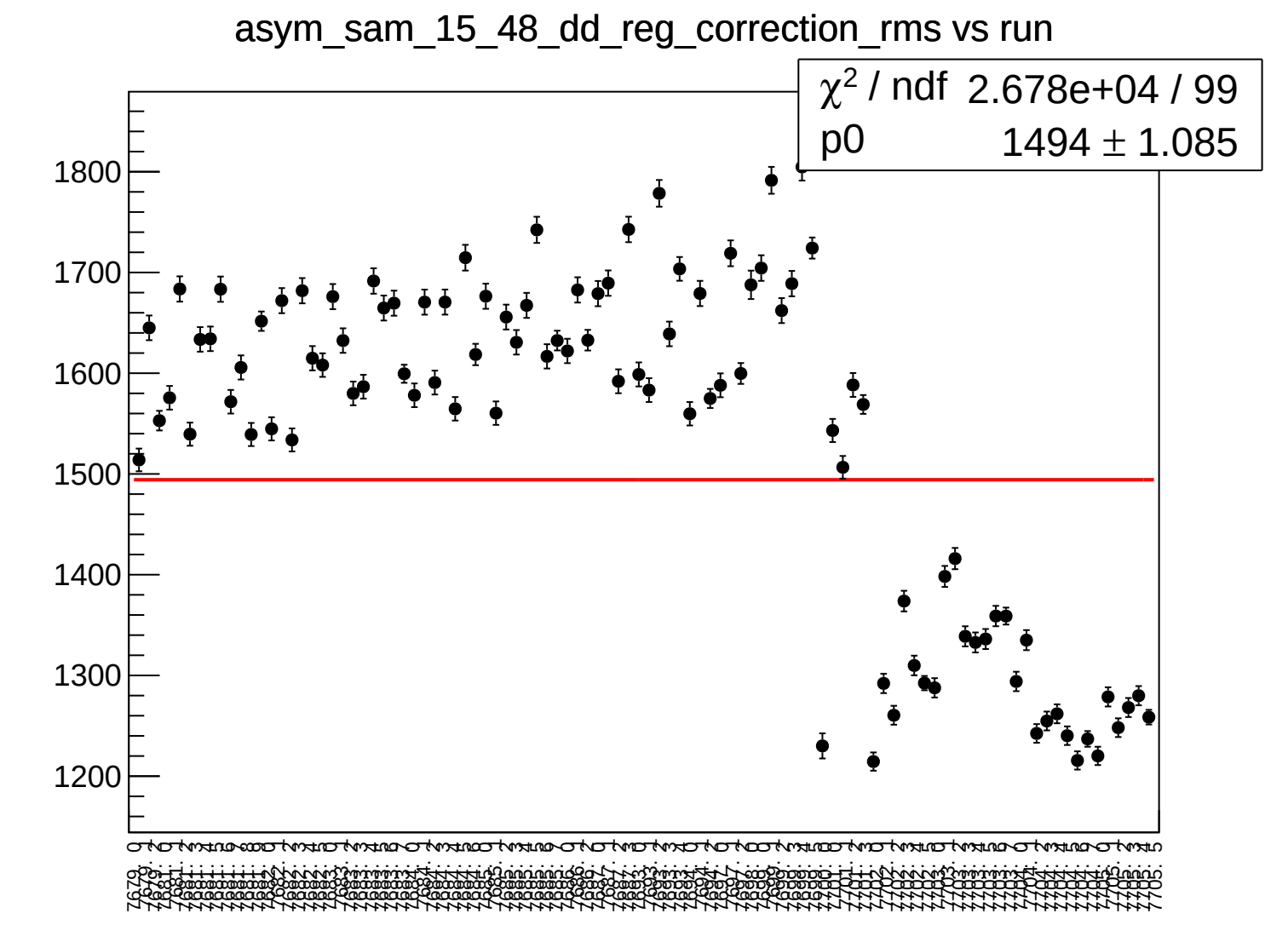

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.037e+06 / 99
p0 3.685e−11 ± 3.909e−14
1
0.8
0.6
0.4
0.2

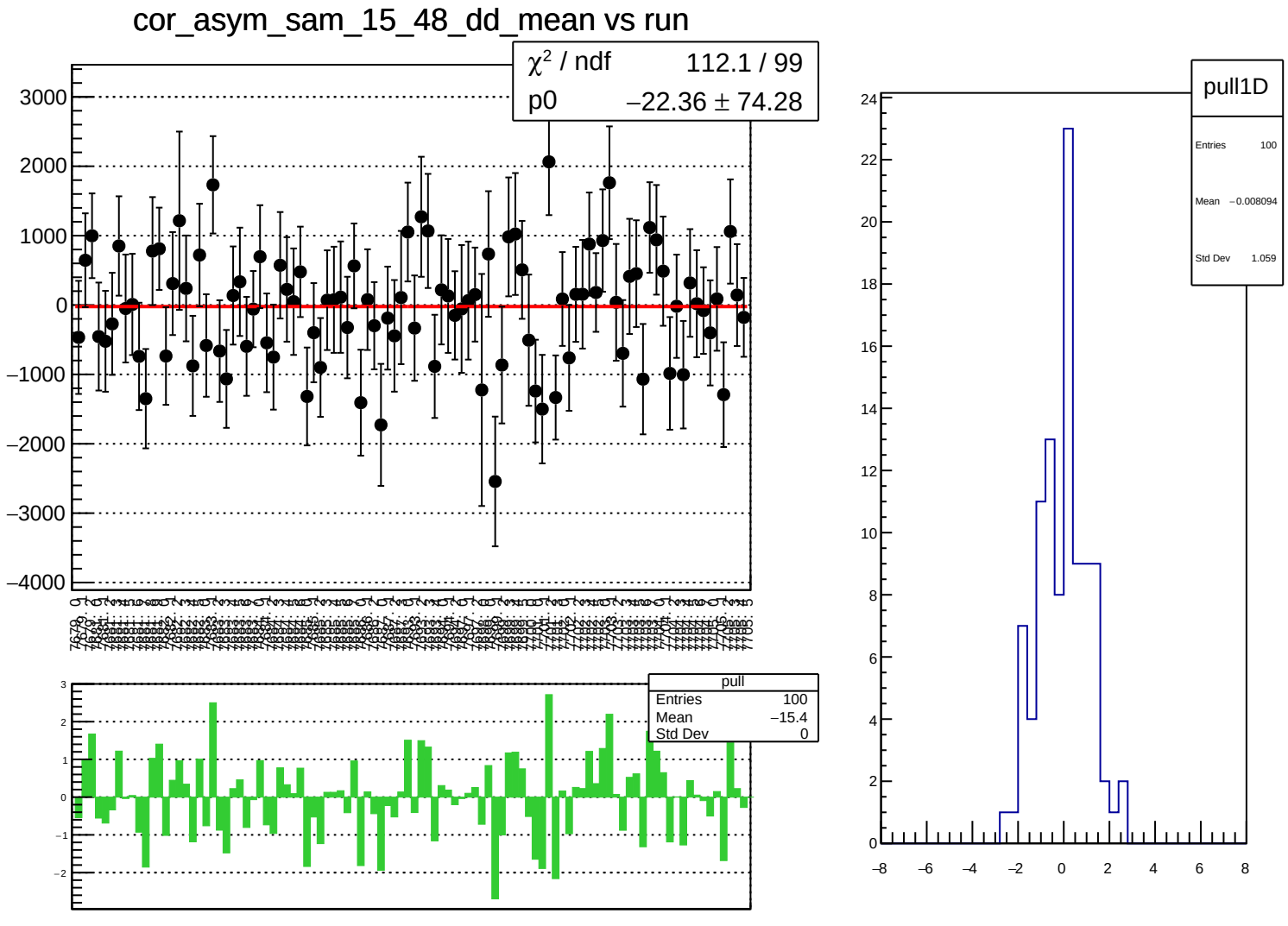

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 112.1 / 99
p0 −22.35 ± 74.28
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 100
Mean −15.38
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.008095
Std Dev 1.059
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

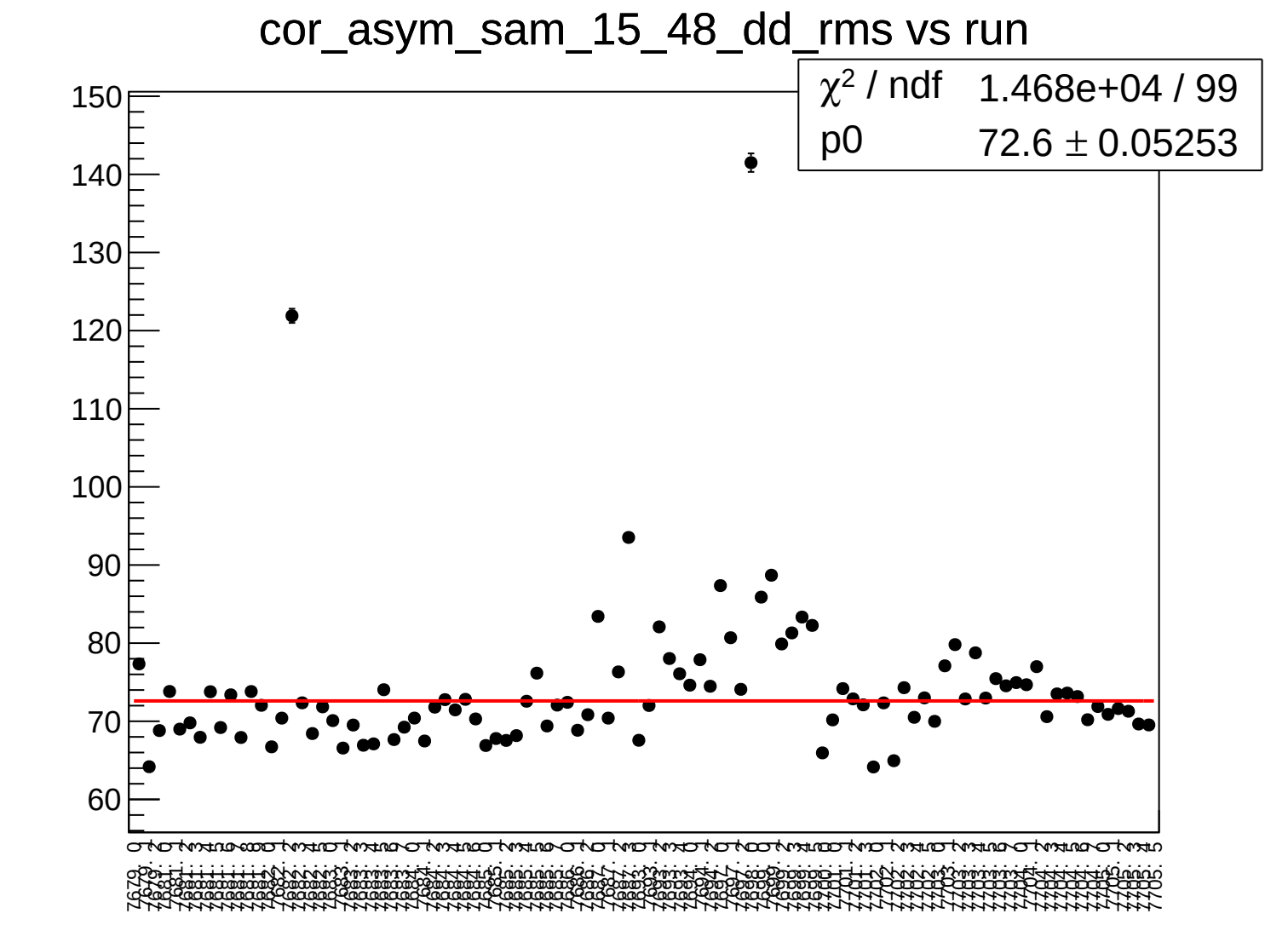

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.468e+04 / 99
p0 72.6 ± 0.05253
150
140
130
120
110
100
90
80
70
60

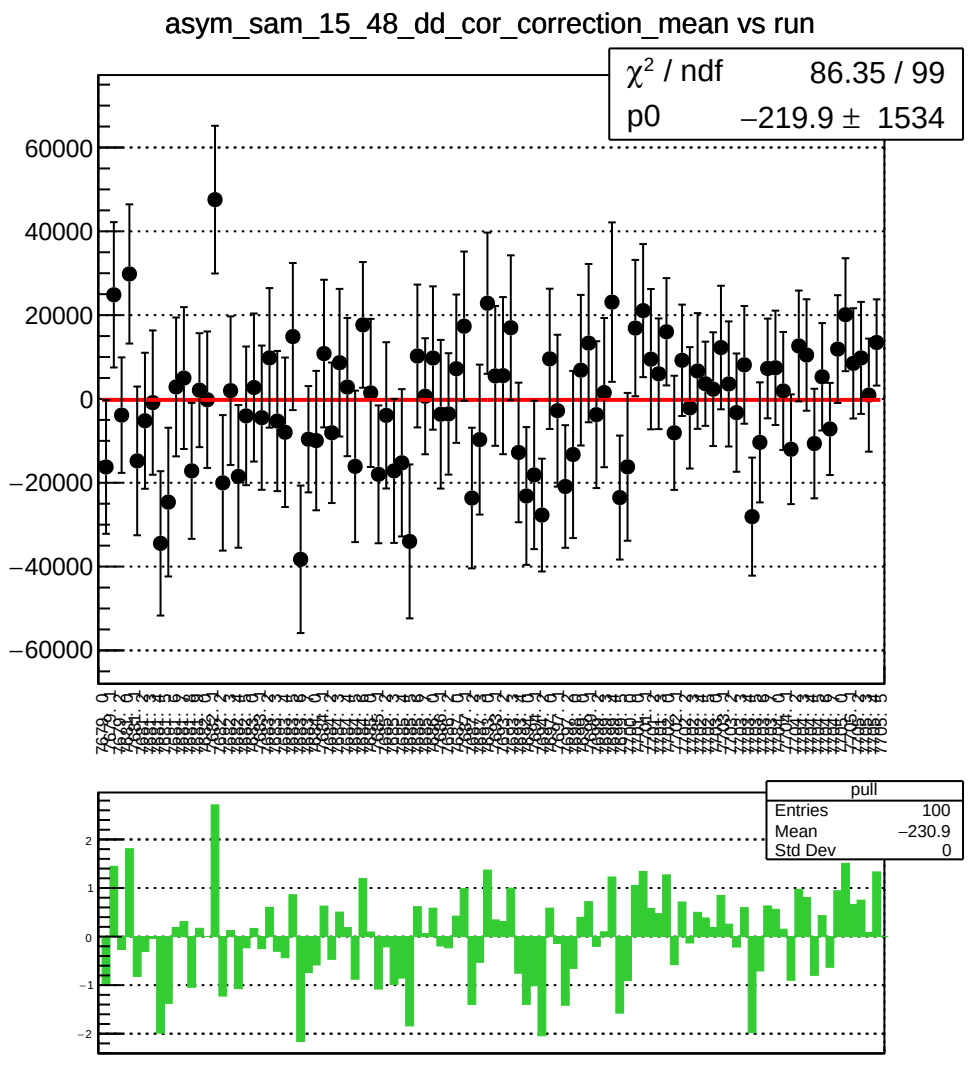

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 86.35 / 99
p0 −219.9 ± 1534
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −230.8
Std Dev 0
2
1
0
−1
−2

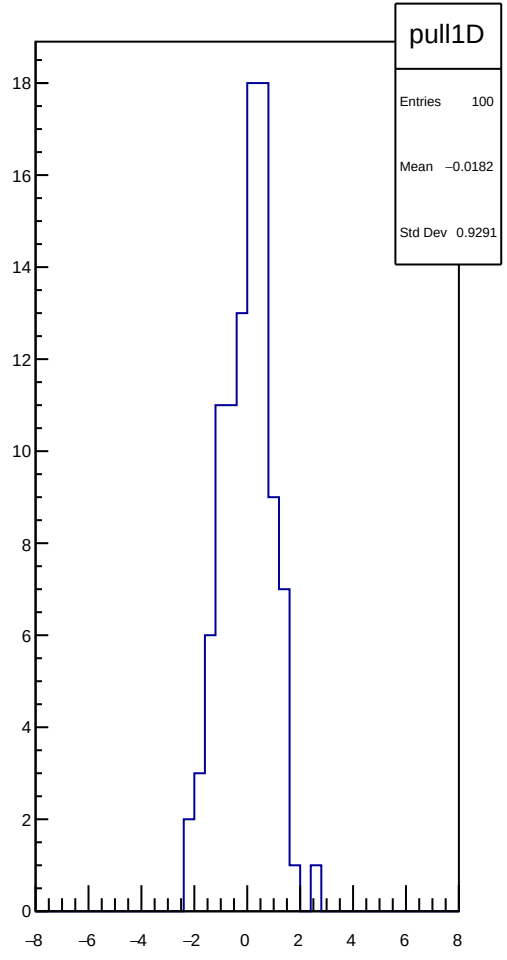

pull1D
Entries 100
Mean −0.0182
Std Dev 0.9291
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

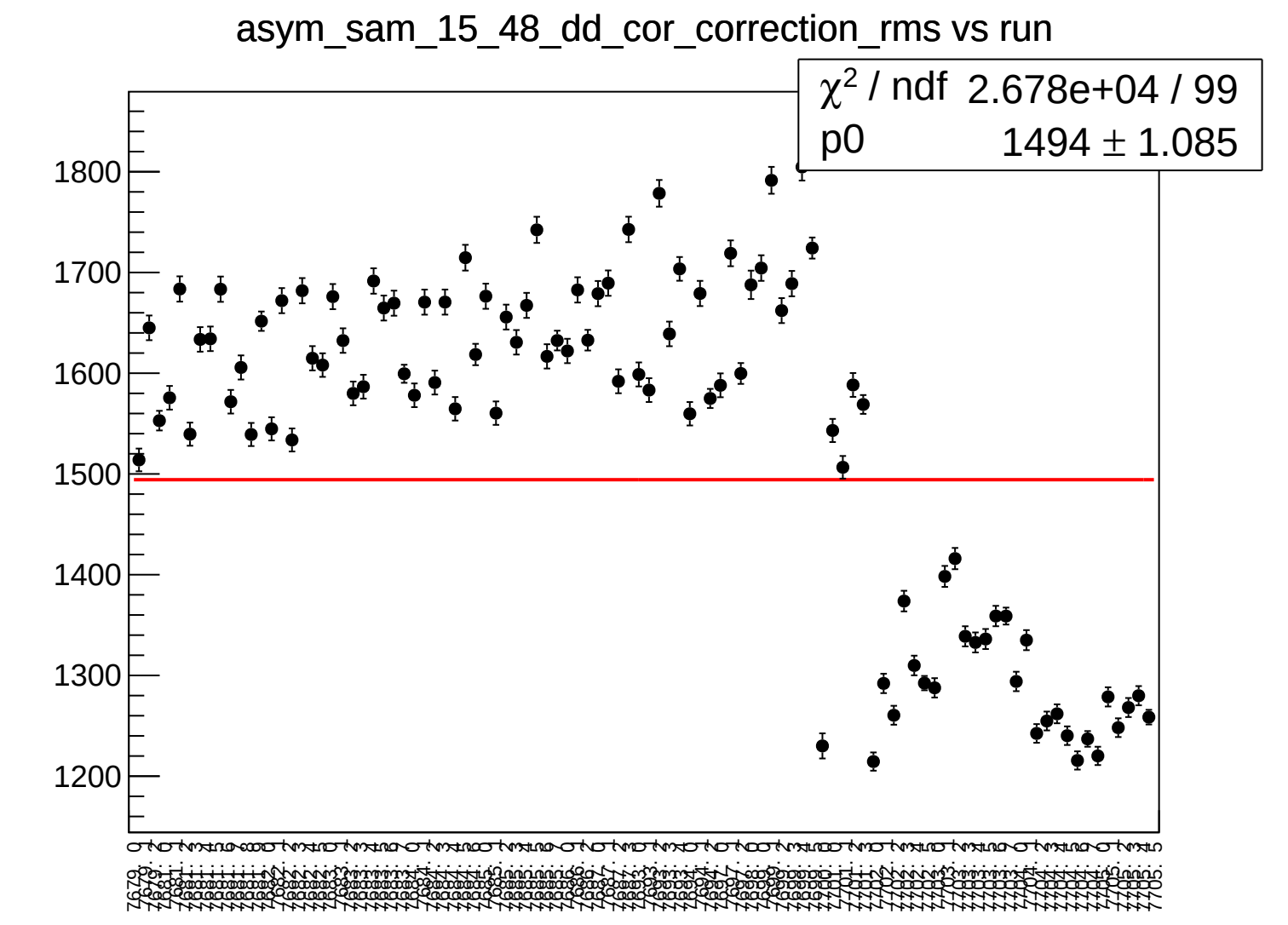

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 2.678e+04 / 99
p0 1494 ± 1.085
1800
1700
1600
1500
1400
1300
1200

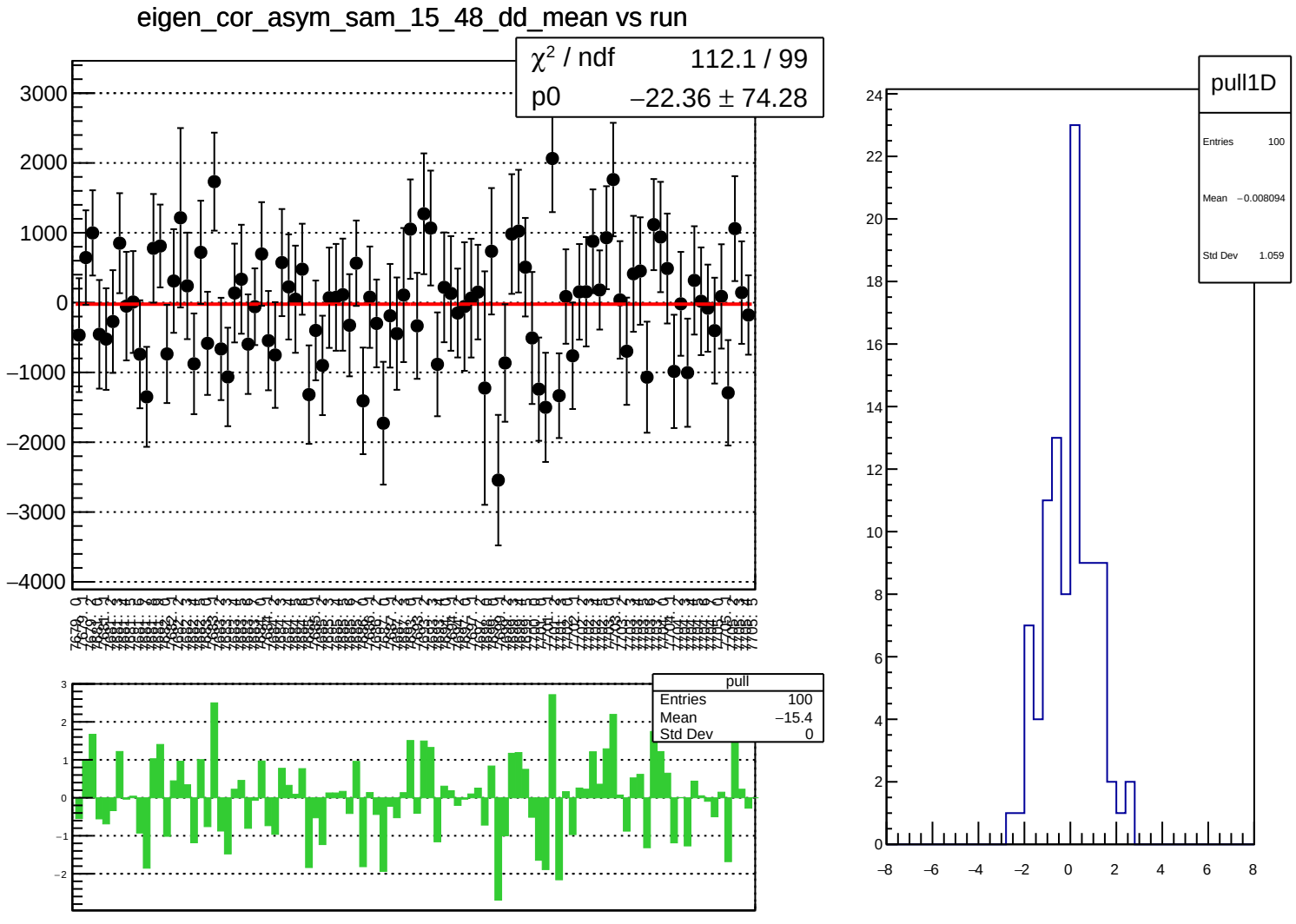

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 112.1 / 99
p0 −22.36 ± 74.28
pull
Entries 100
Mean −15.4
Std Dev 0
pull1D
Entries 100
Mean −0.008094
Std Dev 1.059

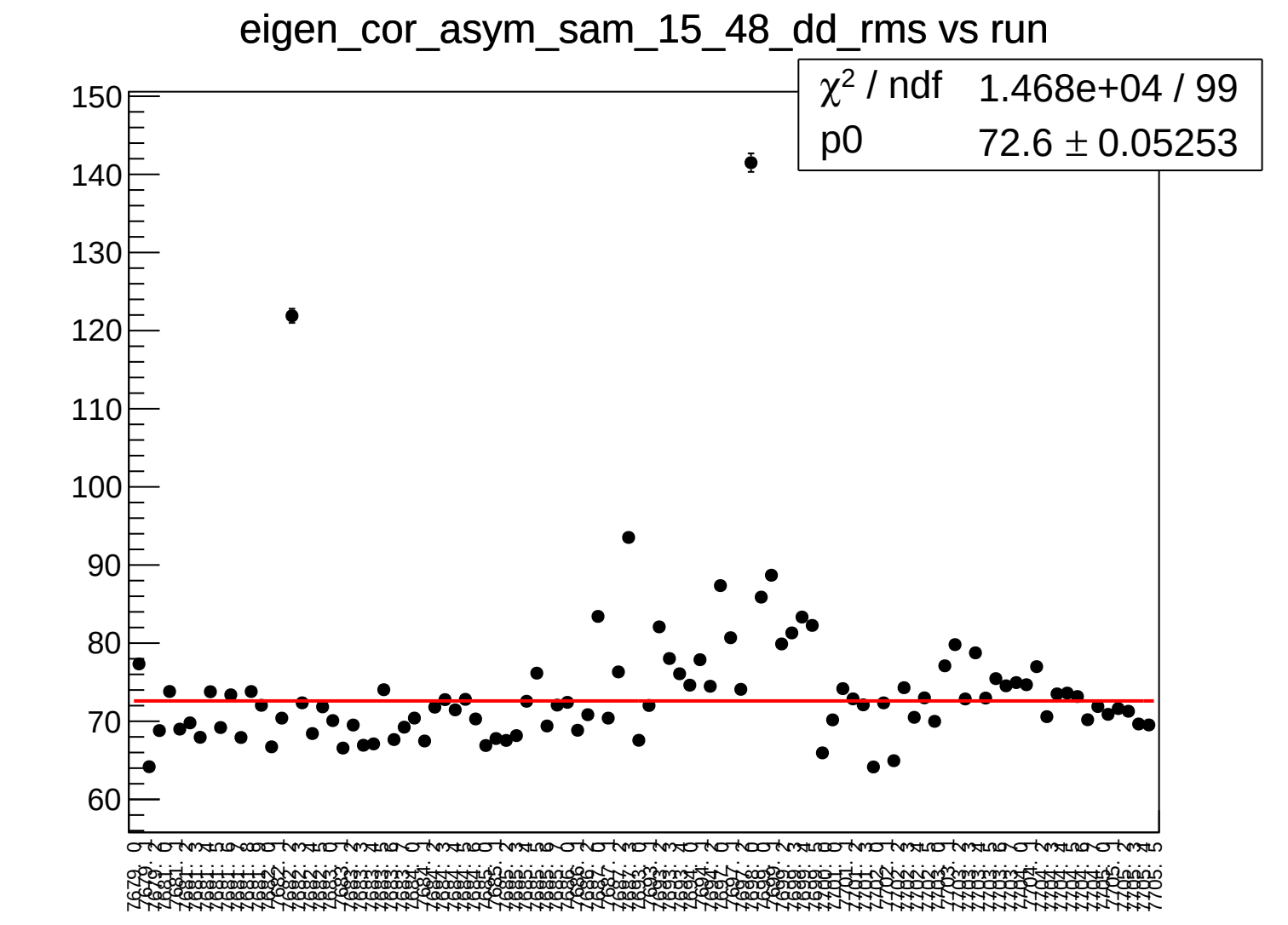

cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.468e+04 / 99
p0 72.6 ± 0.05253
150
140
130
120
110
100
90
80
70
60

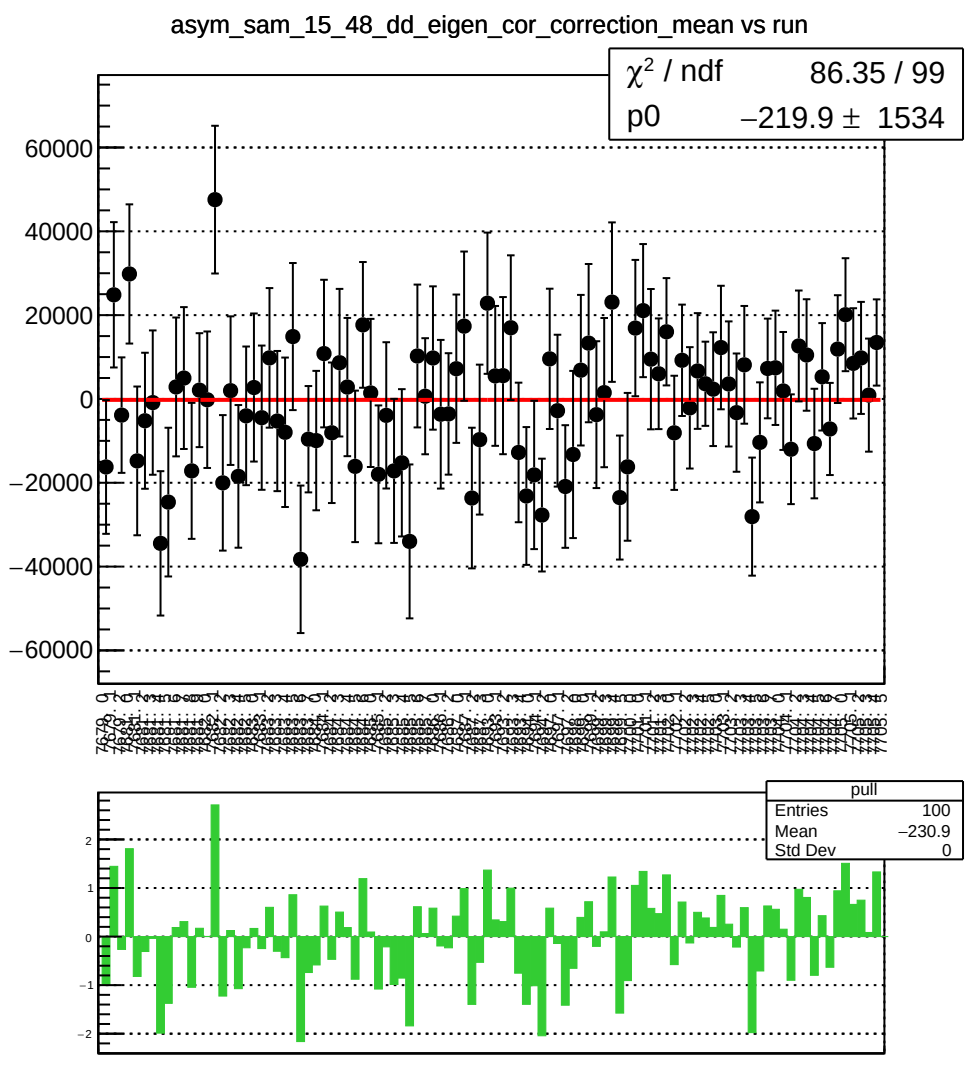

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 86.35 / 99
p0 −219.9 ± 1534
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −230.9
Std Dev 0
2
1
0
−1
−2

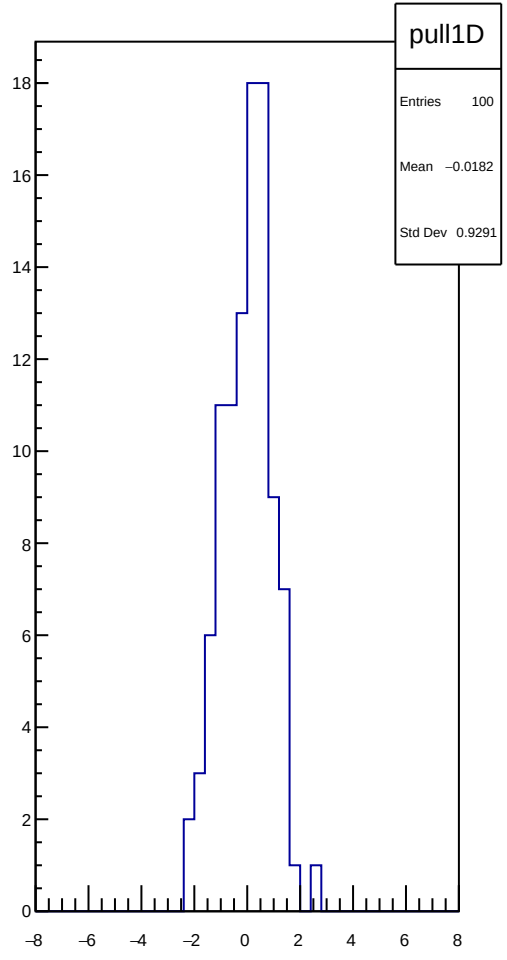

pull1D
Entries 100
Mean −0.0182
Std Dev 0.9291
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

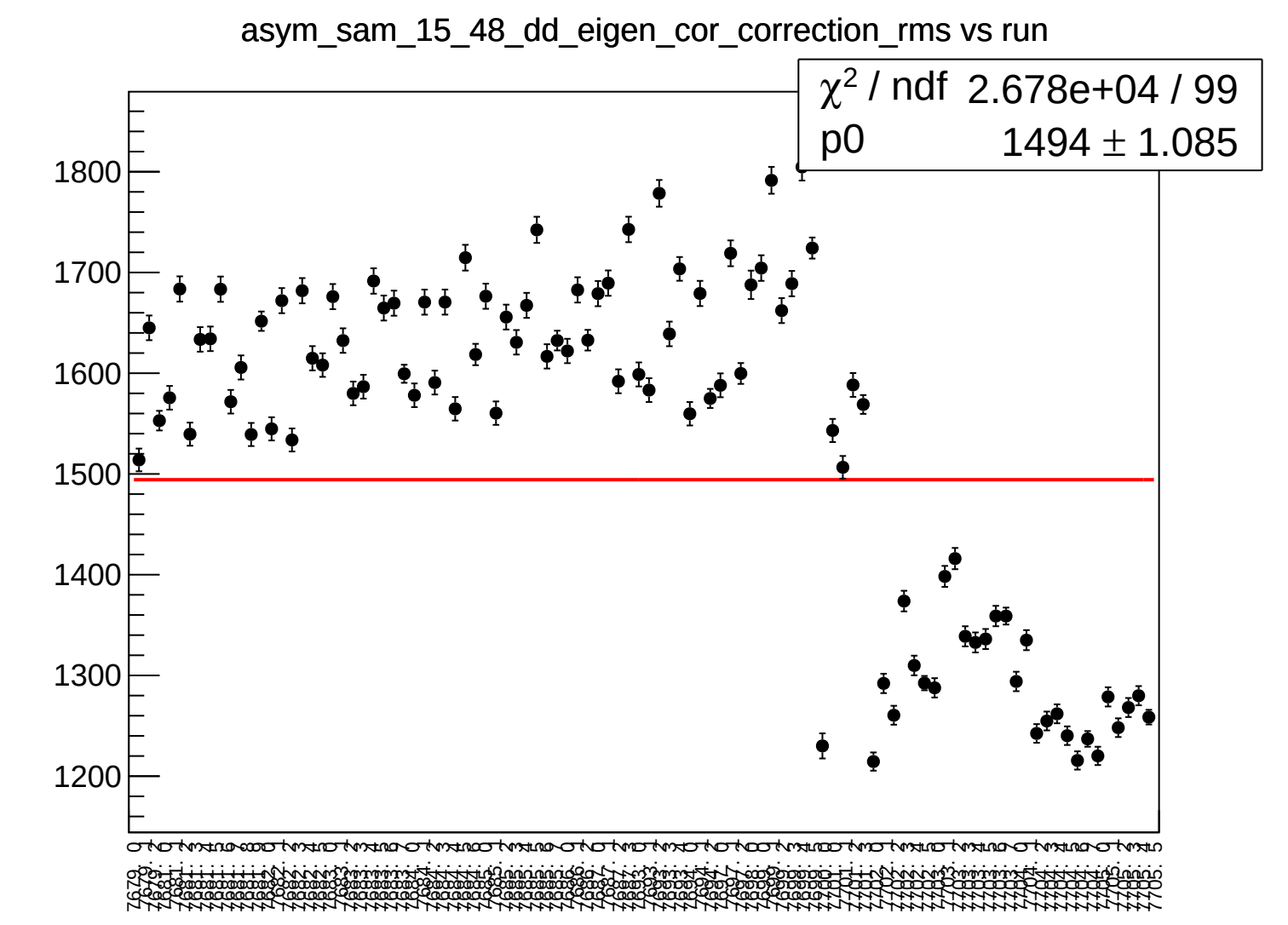

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 2.678e+04 / 99
p0 1494 ± 1.085
1800
1700
1600
1500
1400
1300
1200

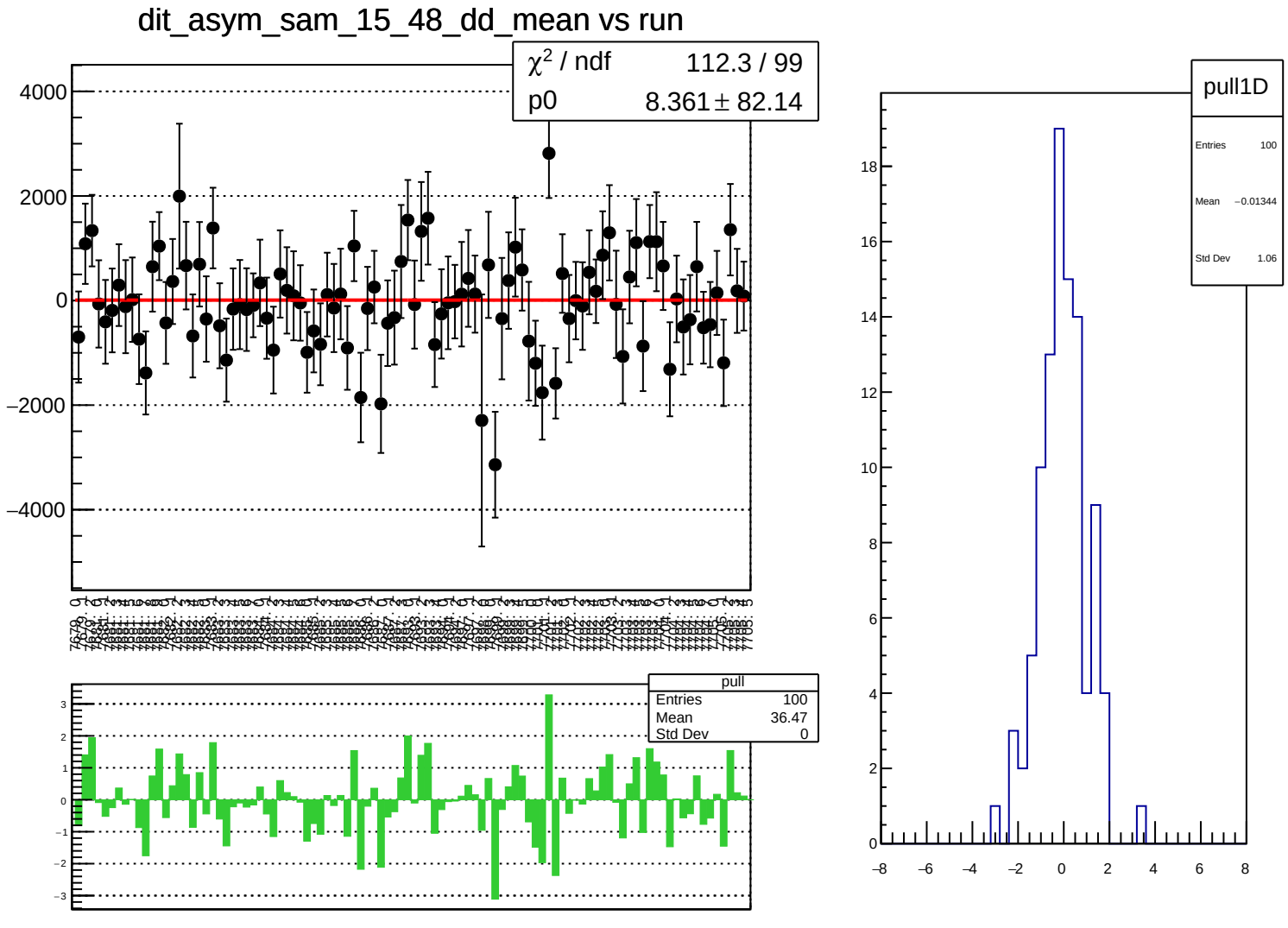

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 112.1 / 99
p0 −22.36 ± 74.28
pull
Entries 100
Mean −15.4
Std Dev 0
pull1D
Entries 100
Mean −0.008094
Std Dev 1.059

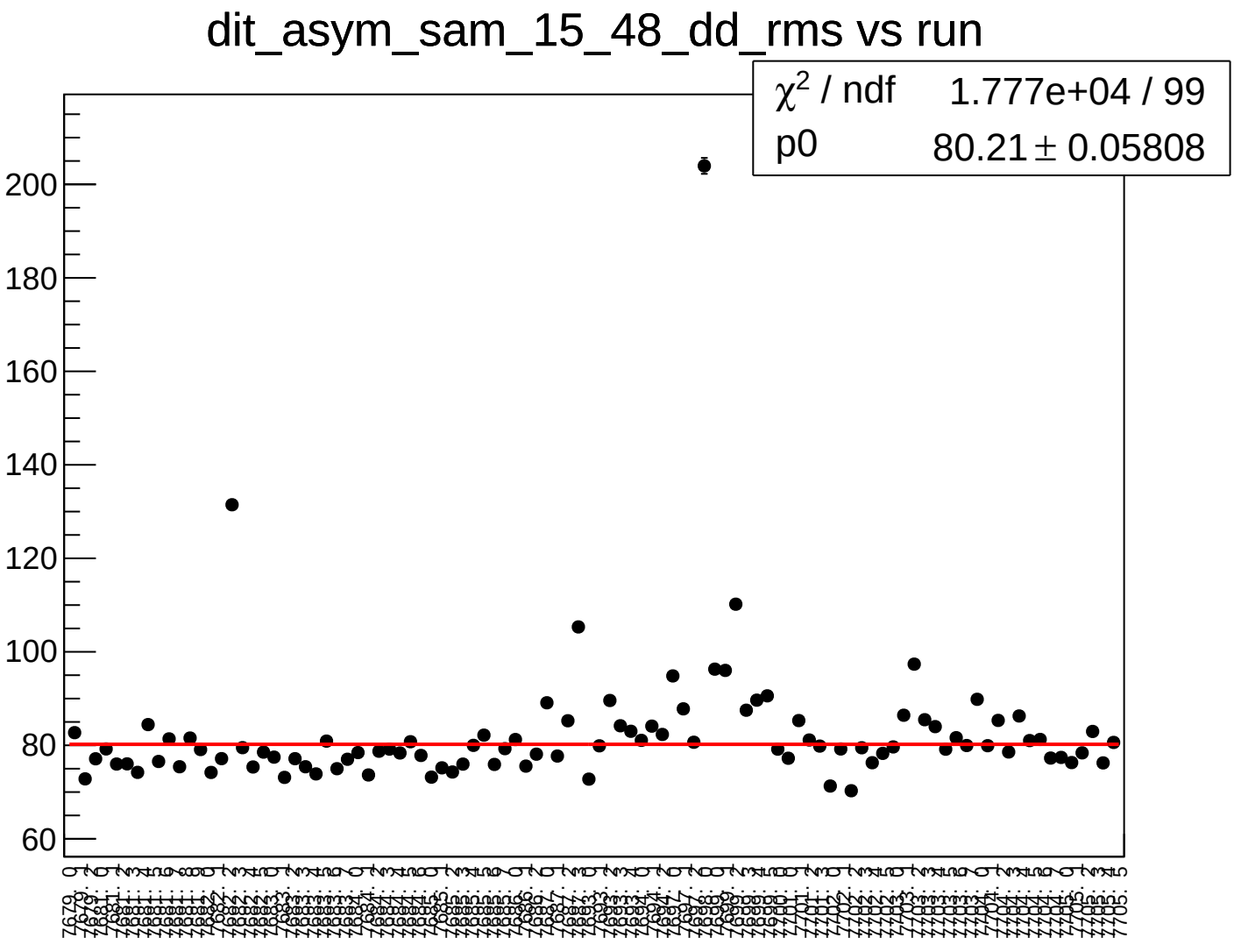

eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.468e+04 / 99
p0 72.6 ± 0.05253
150
140
130
120
110
100
90
80
70
60

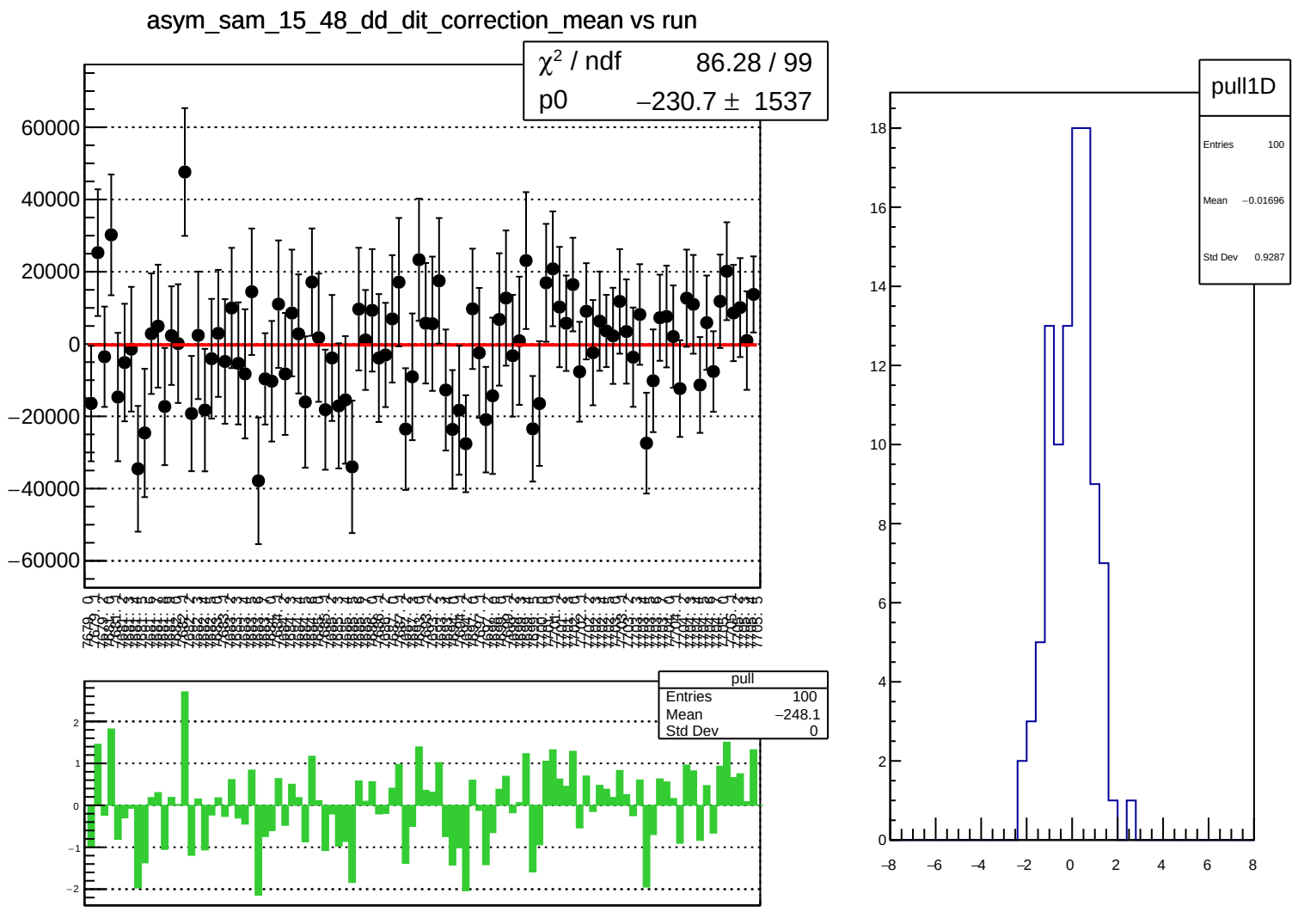

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 86.35 / 99
p0 −219.9 ± 1534
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −230.9
Std Dev 0
2
1
0
−1
−2

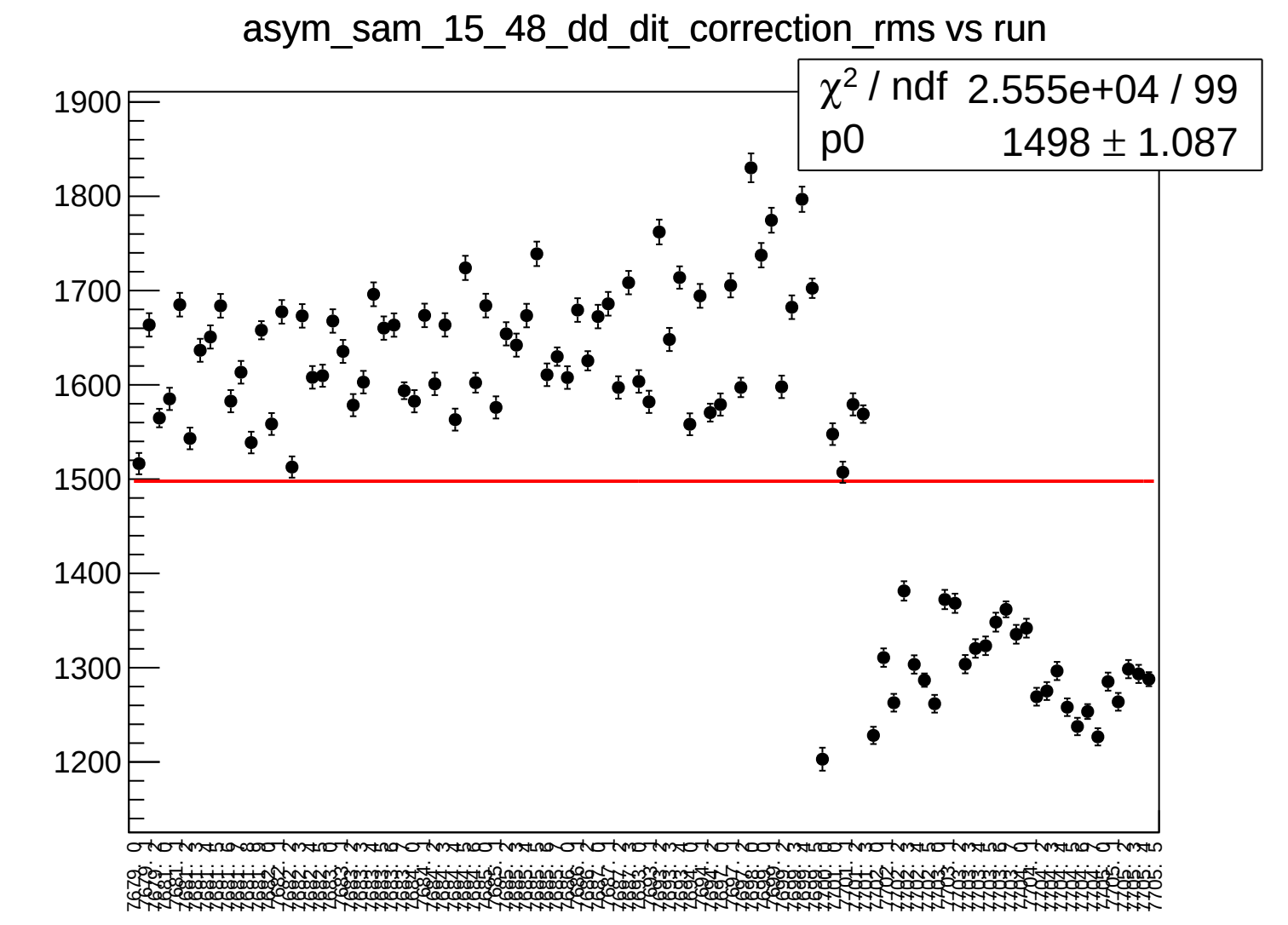

pull1D
Entries 100
Mean −0.0182
Std Dev 0.9291
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

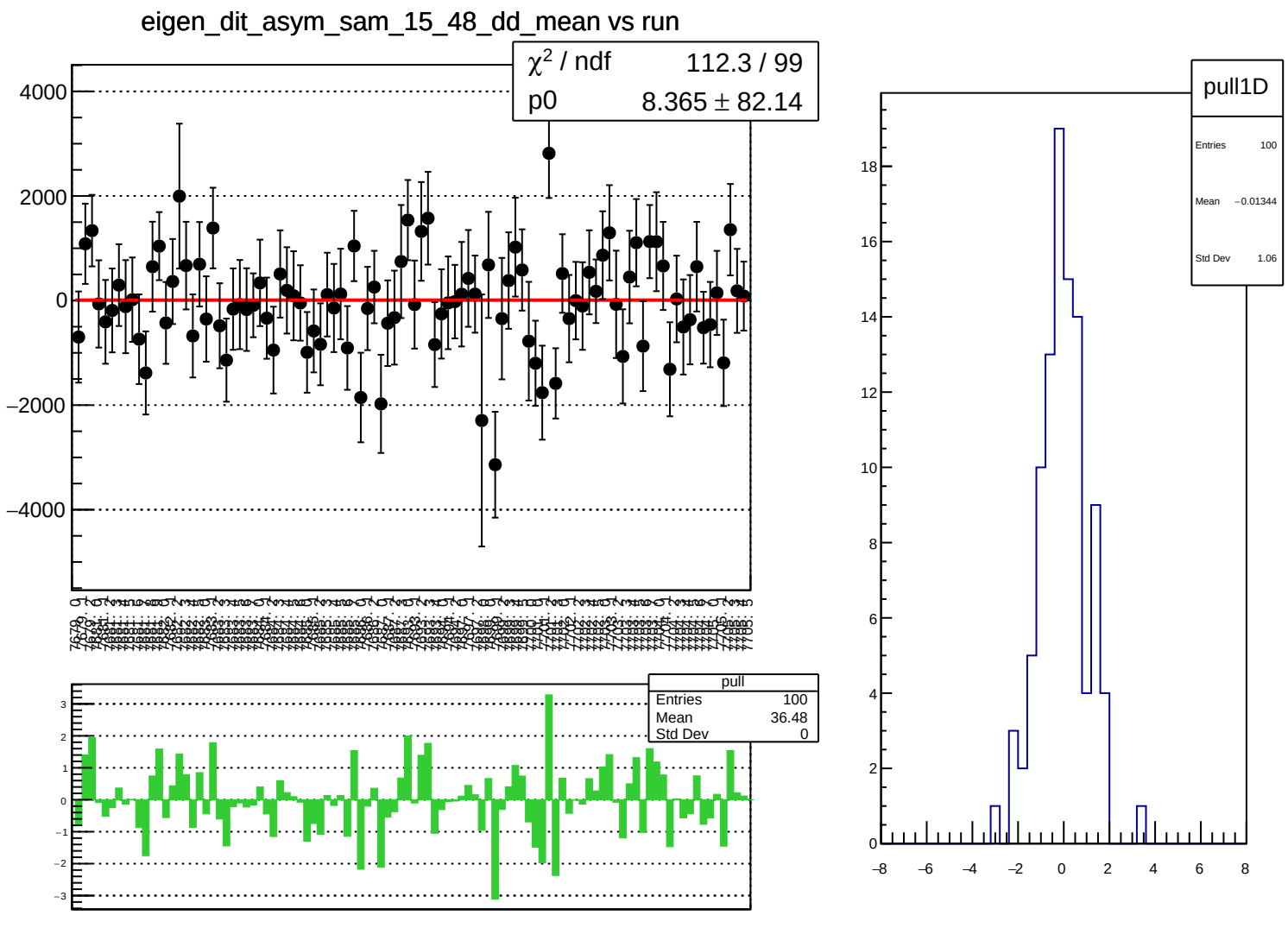

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.678e+04 / 99
p0 1494 ± 1.085
1800
1700
1600
1500
1400
1300
1200

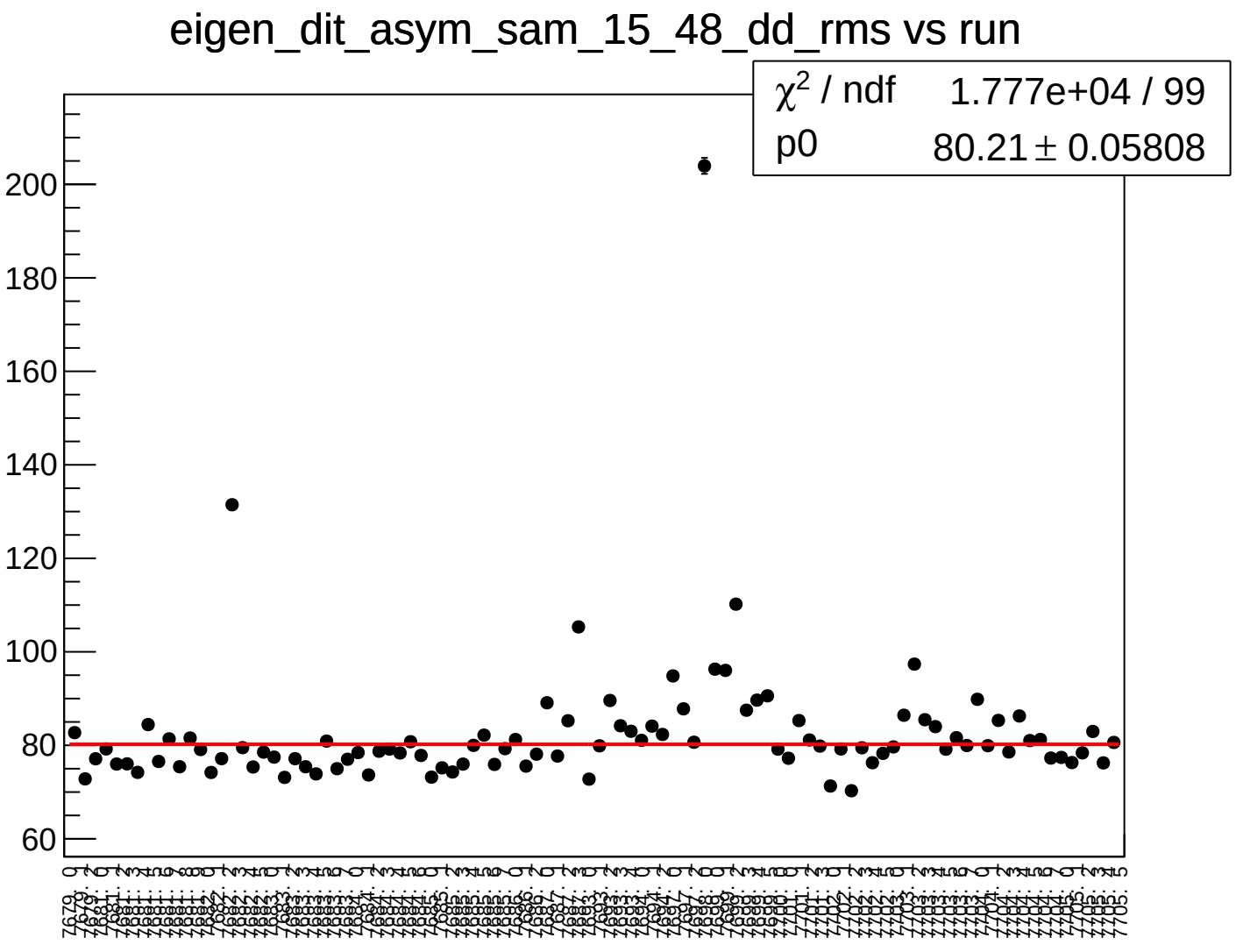

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 112.3 / 99
p0 8.361 ± 82.14
4000
2000
0
−2000
−4000
pull
Entries 100
Mean 36.47
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean −0.01344
Std Dev 1.06
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

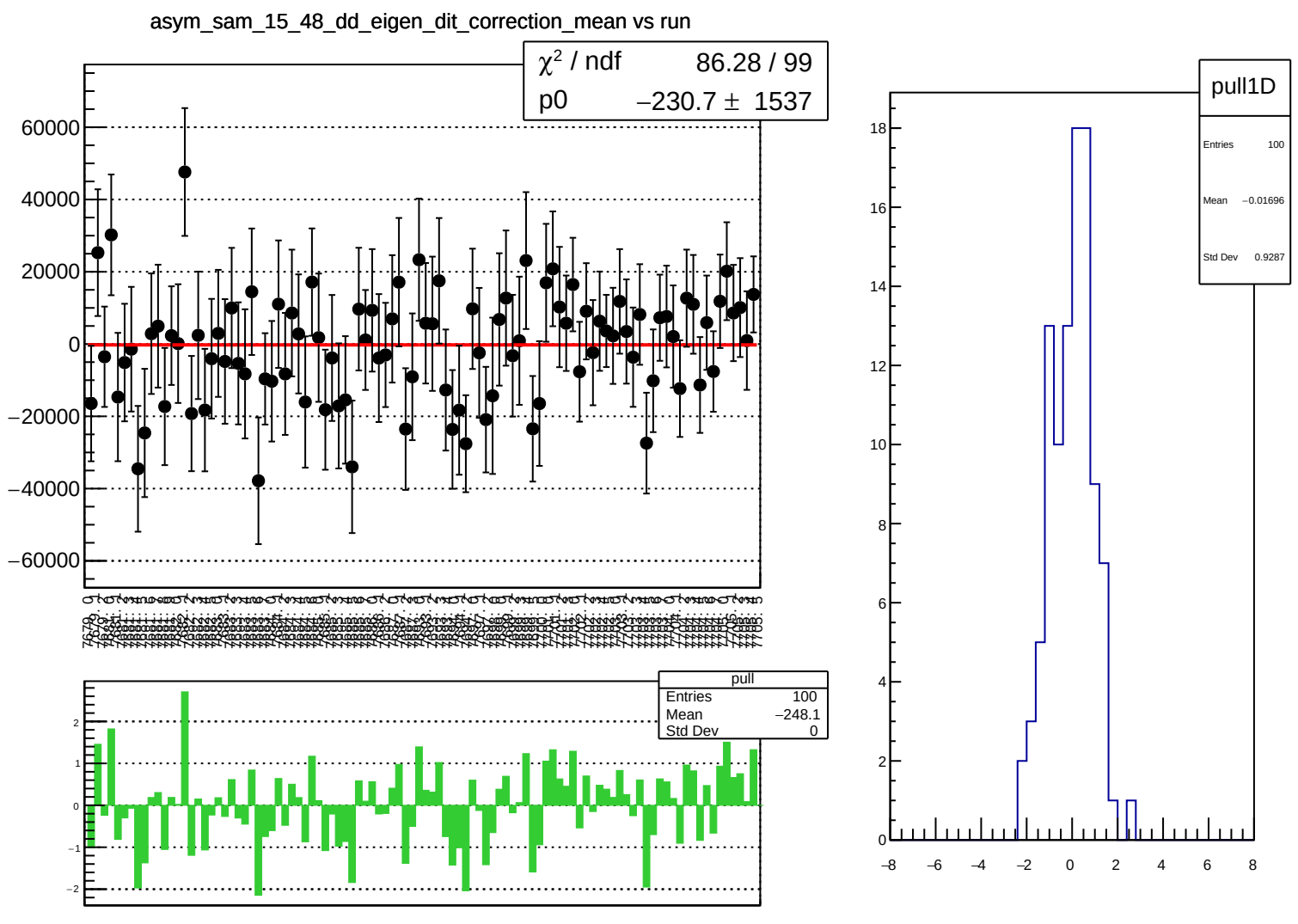

dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.777e+04 / 99
p0 80.21 ± 0.05808
200
180
160
140
120
100
80
60

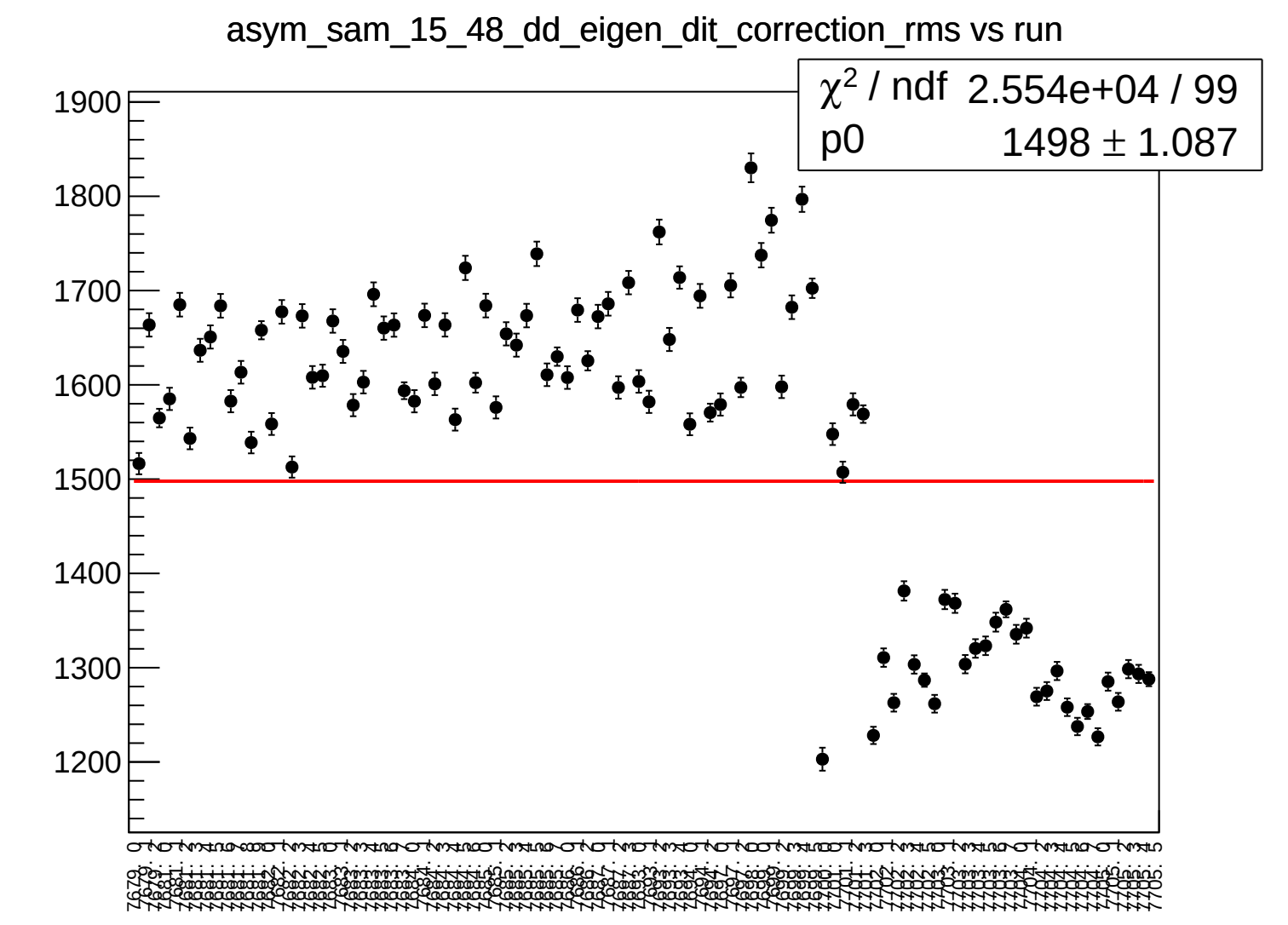

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 86.28 / 99
p0 −230.7 ± 1537
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −248.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.01696
Std Dev 0.9287
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

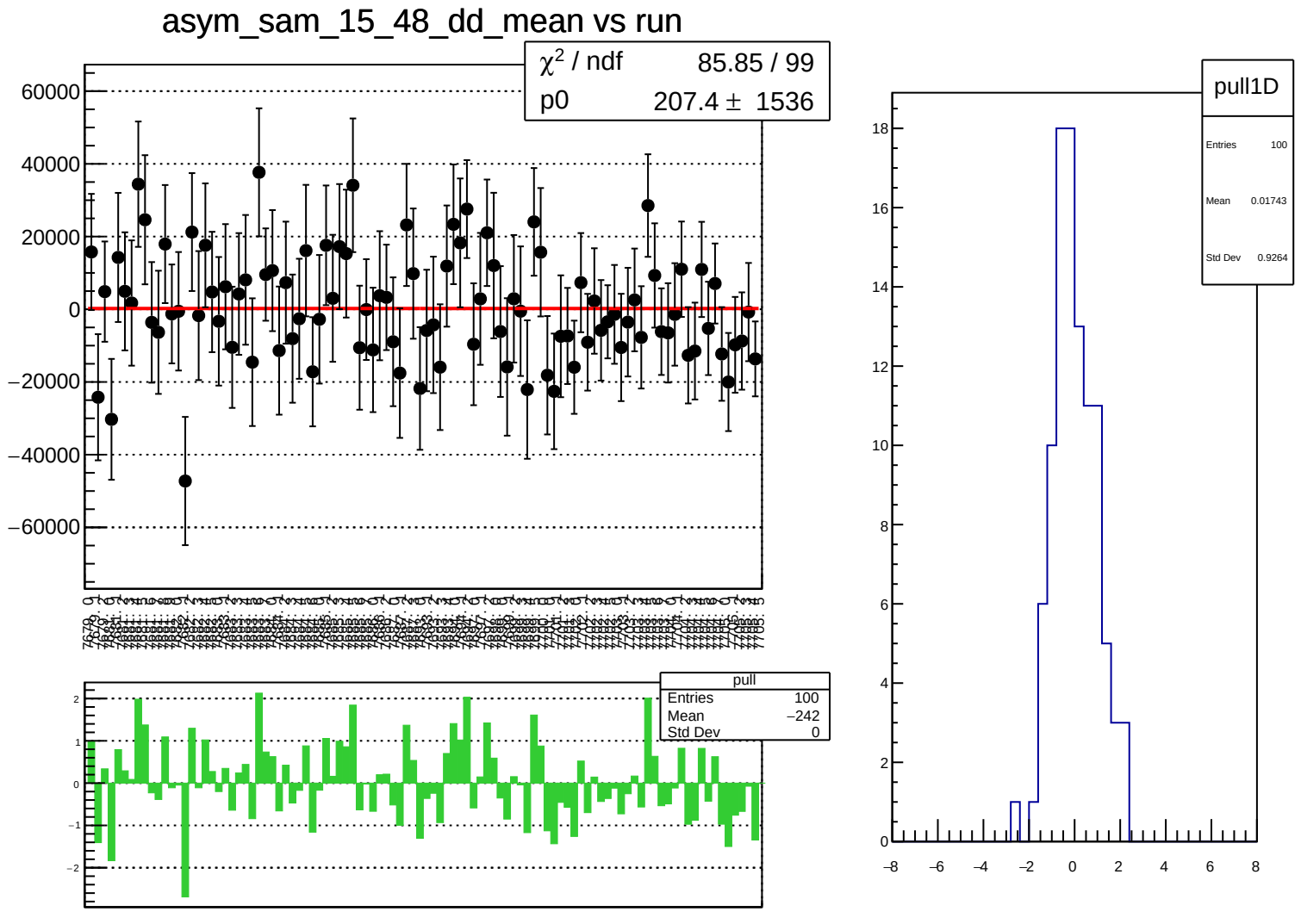

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 2.555e+04 / 99
p0 1498 ± 1.087
1900
1800
1700
1600
1500
1400
1300
1200

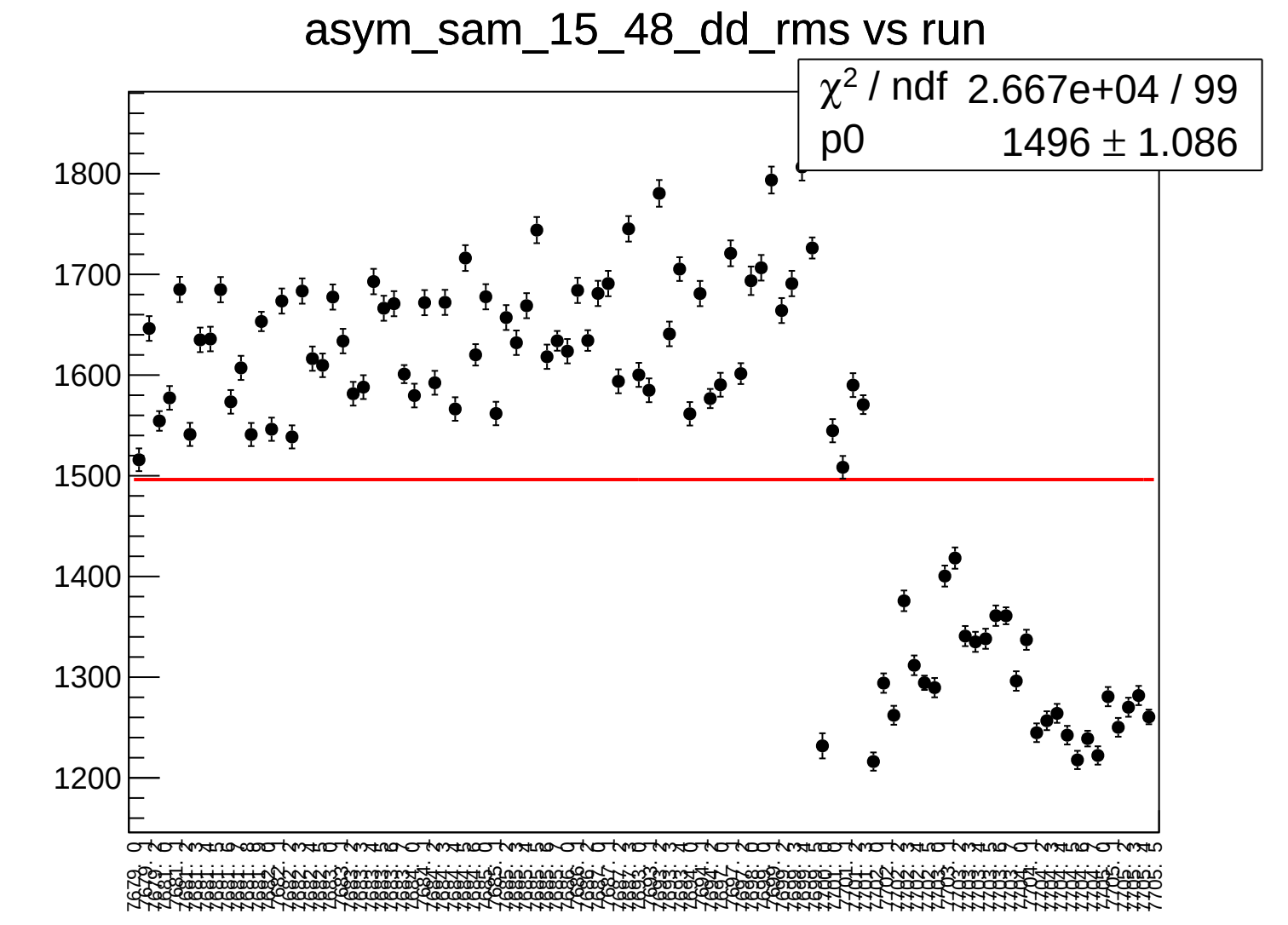

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 112.3 / 99
p0 8.365 ± 82.14
4000
2000
0
−2000
−4000
pull
Entries 100
Mean 36.48
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean −0.01344
Std Dev 1.06
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

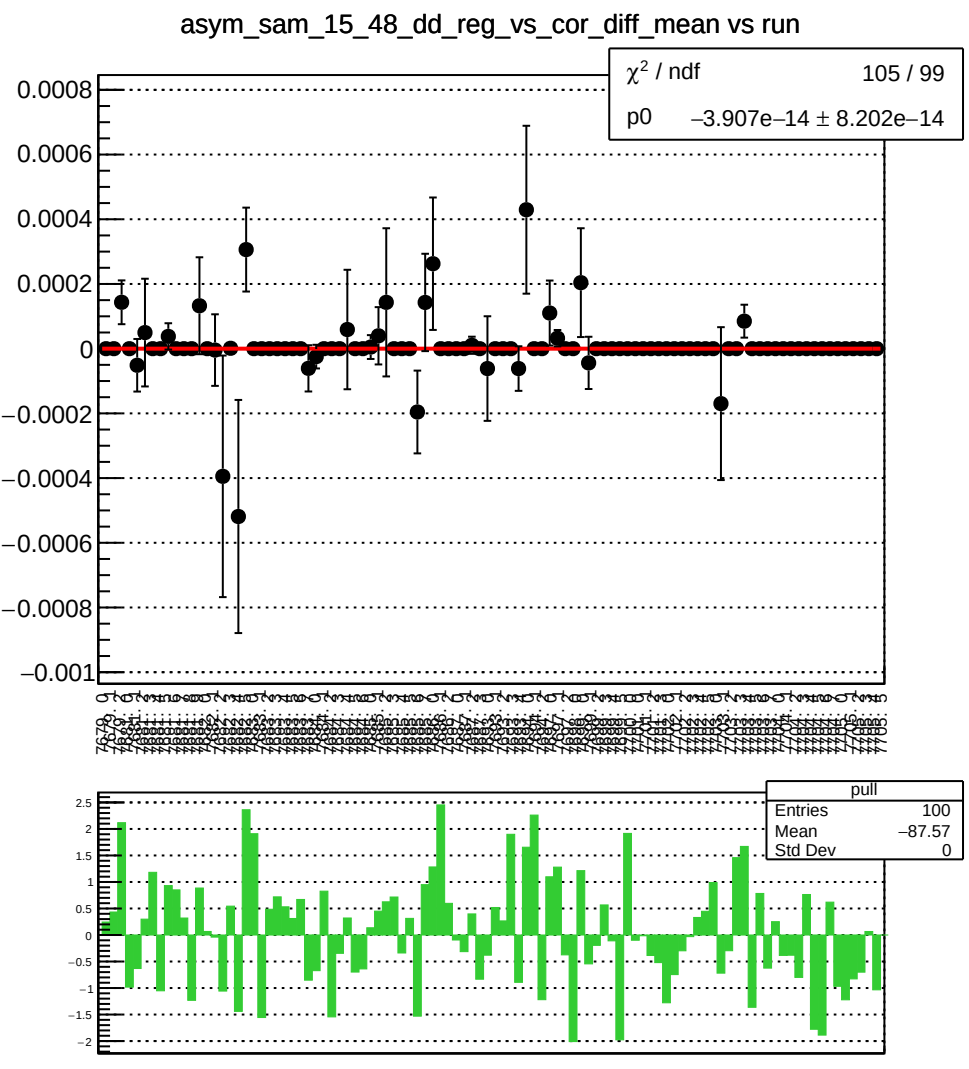

eigen_dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.777e+04 / 99
p0 80.21 ± 0.05808
200
180
160
140
120
100
80
60

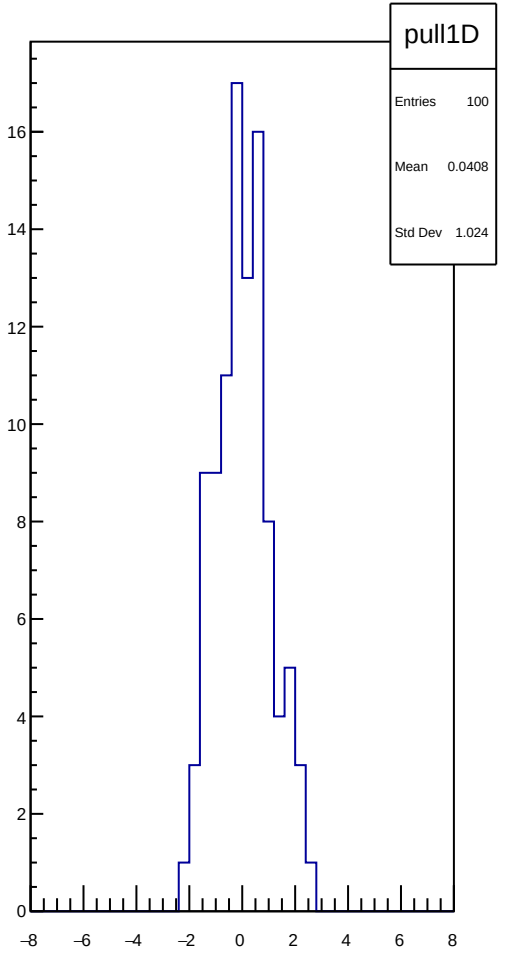

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 86.28 / 99
p0 −230.7 ± 1537
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −248.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.01696
Std Dev 0.9287
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

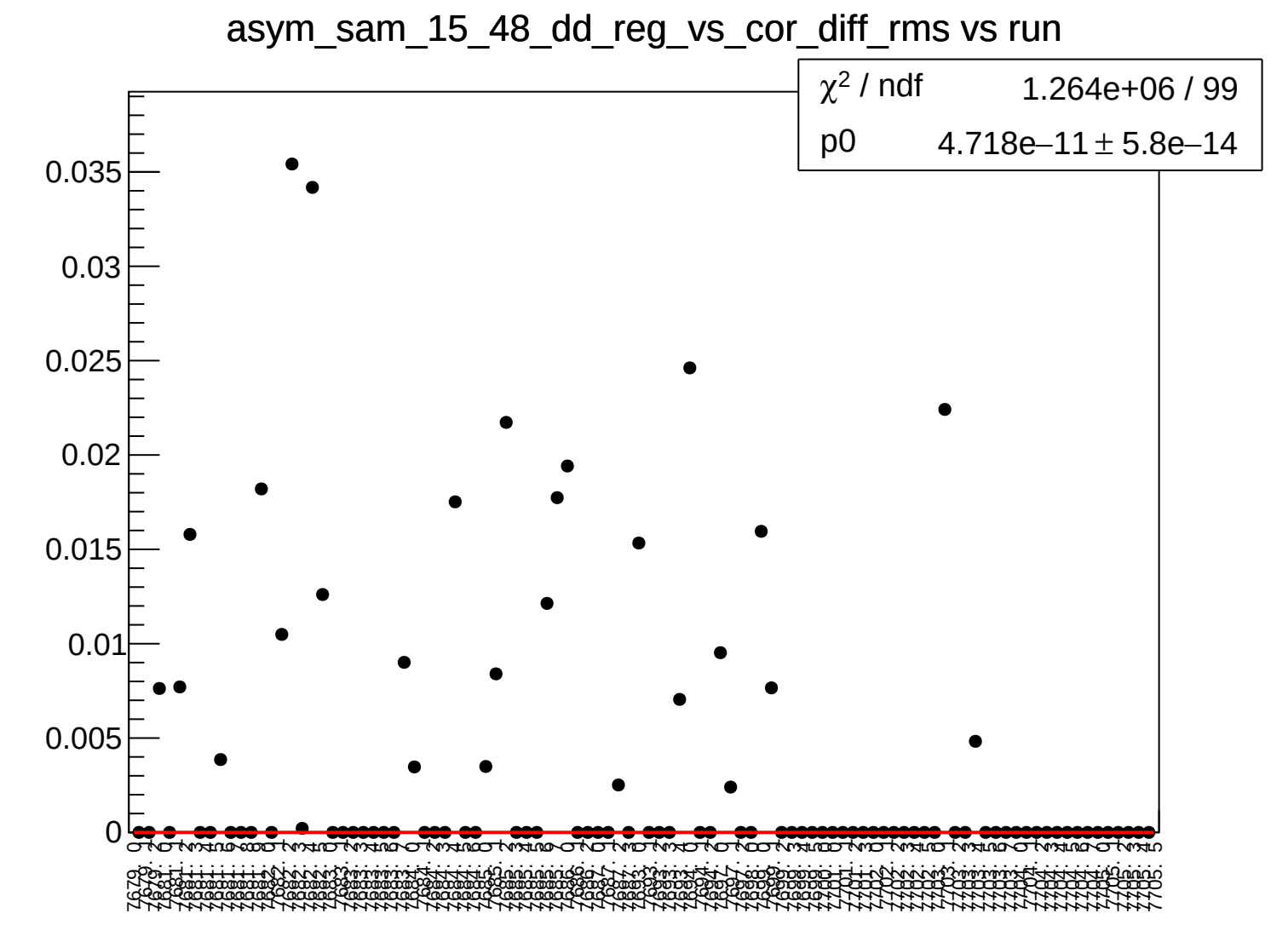

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.554e+04 / 99
p0 1498 ± 1.087
1900
1800
1700
1600
1500
1400
1300
1200

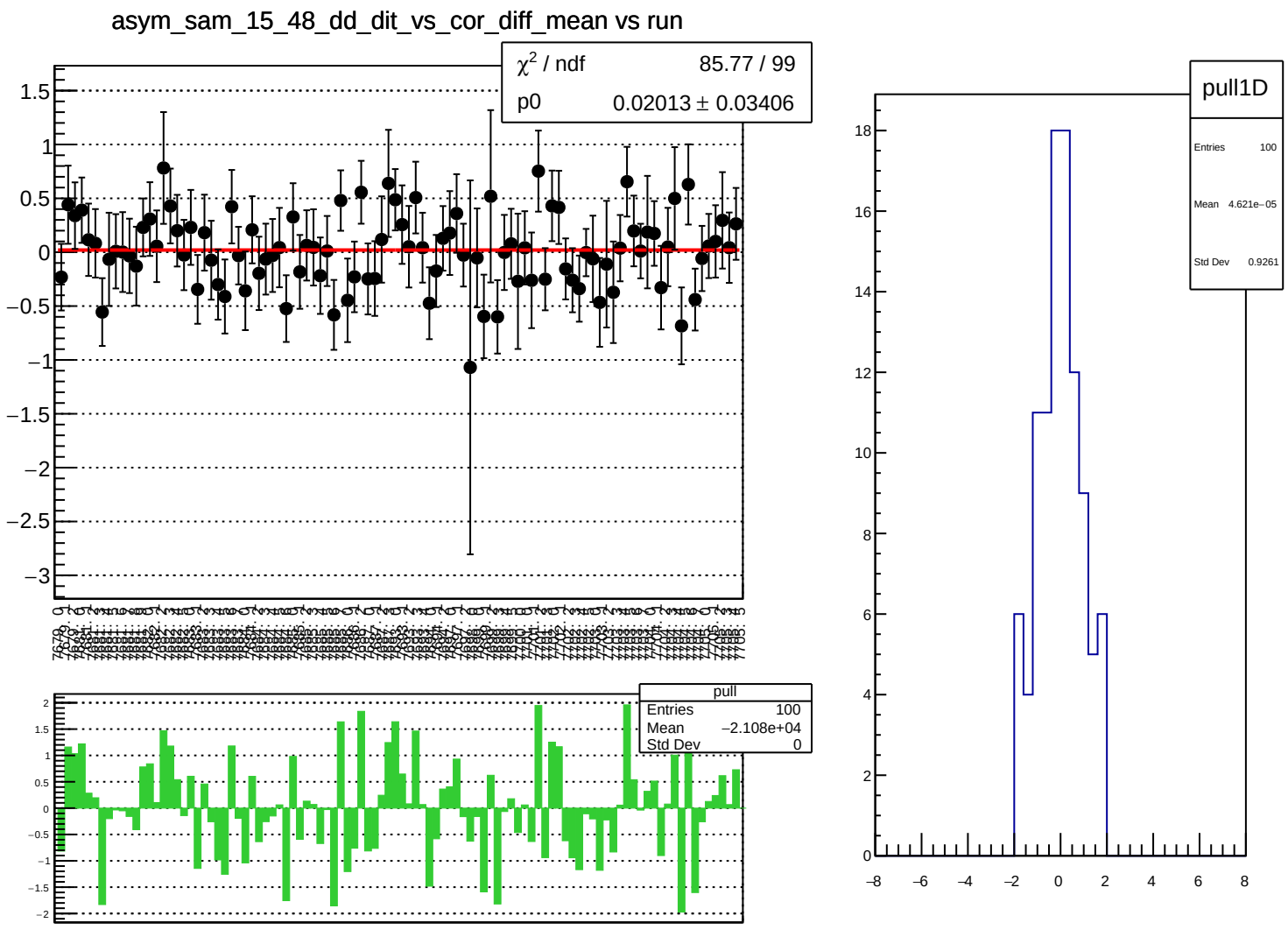

asym_sam_15_48_dd_mean vs run
χ² / ndf 85.85 / 99
p0 207.4 ± 1536
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −242
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.01743
Std Dev 0.9264
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

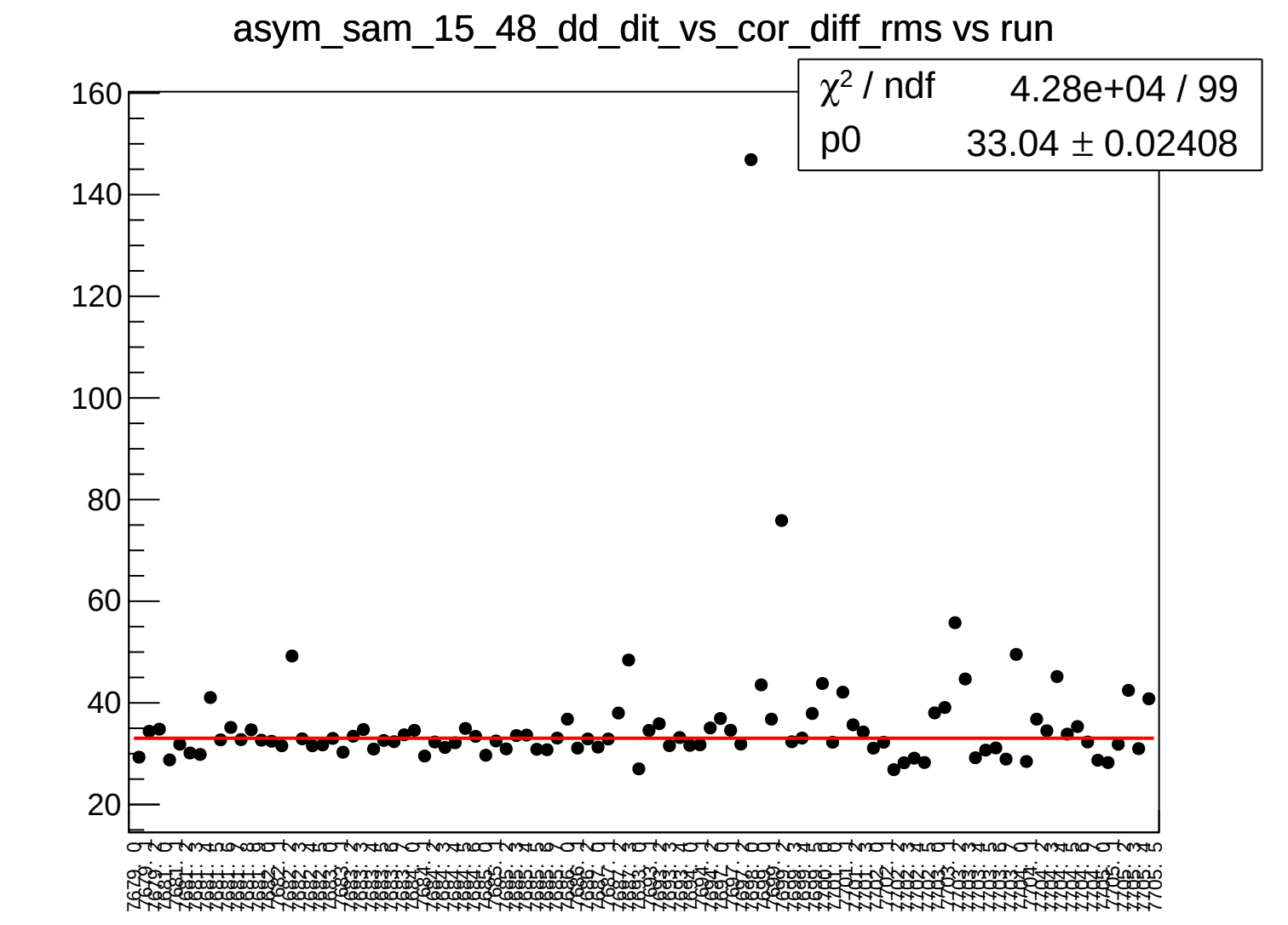

asym_sam_15_48_dd_rms vs run
χ² / ndf 2.667e+04 / 99
p0 1496 ± 1.086
1800
1700
1600
1500
1400
1300
1200

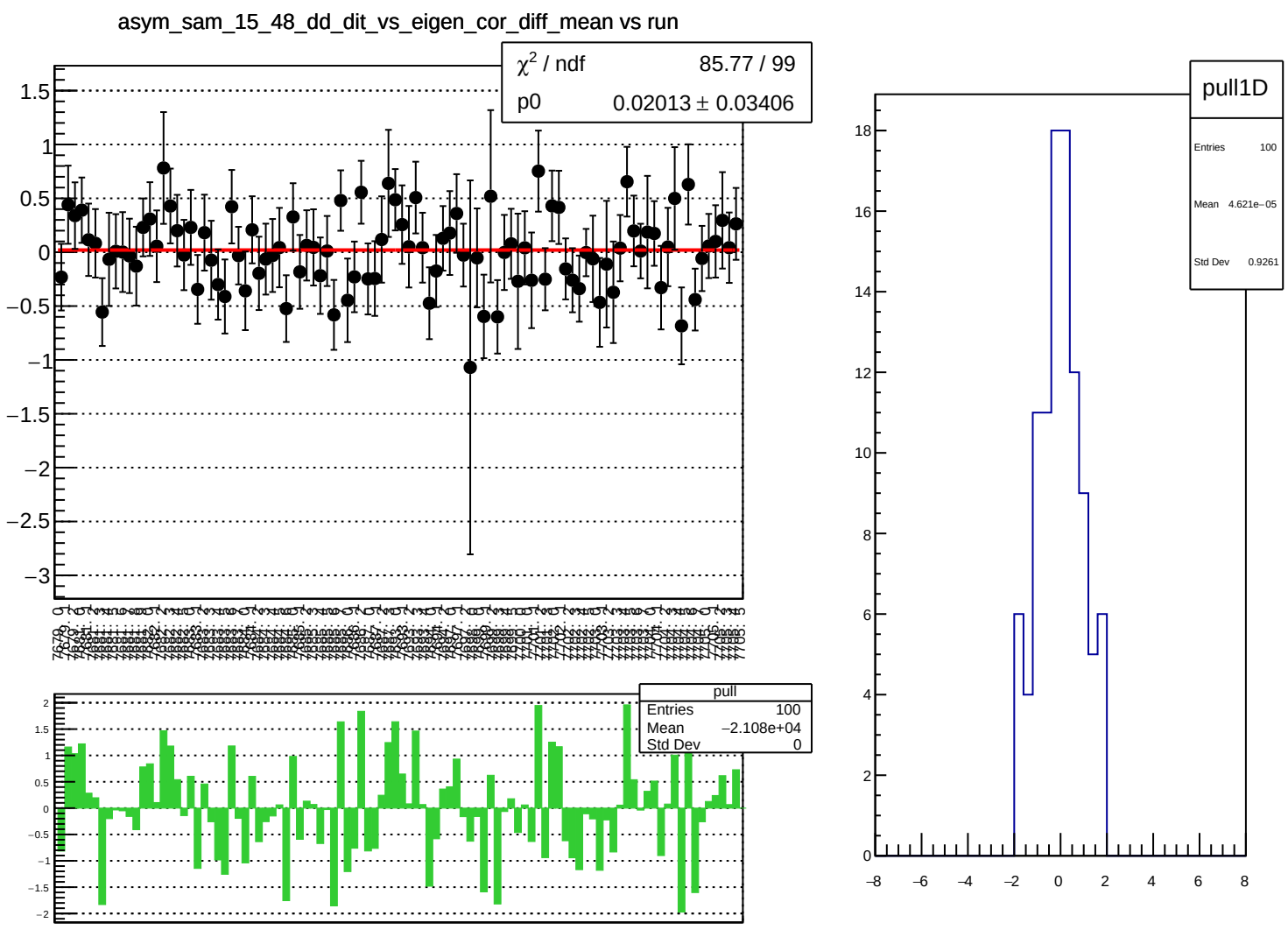

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 105 / 99
p0 −3.907e−14 ± 8.202e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 100
Mean −87.57
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

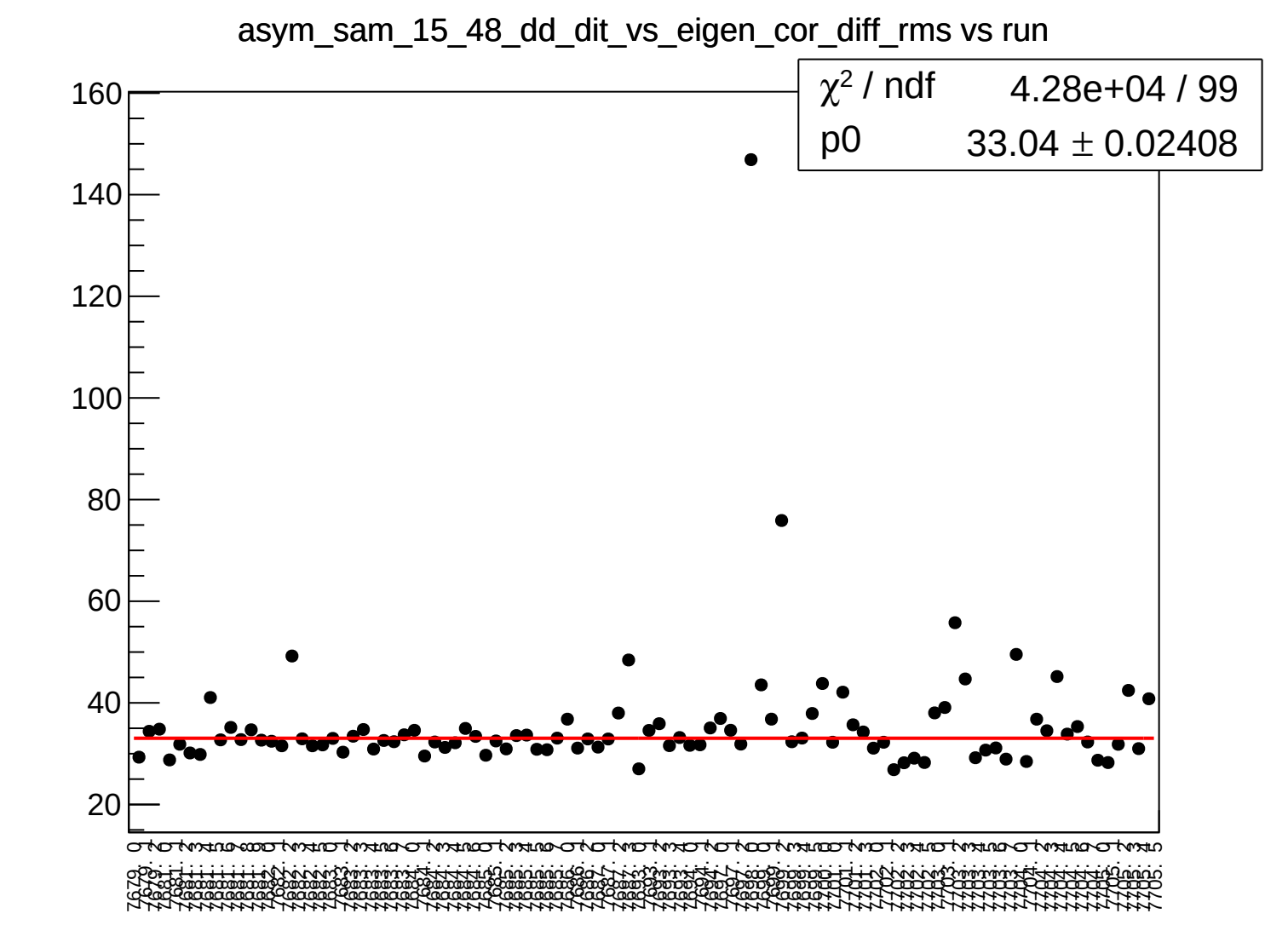

pull1D
Entries 100
Mean 0.0408
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

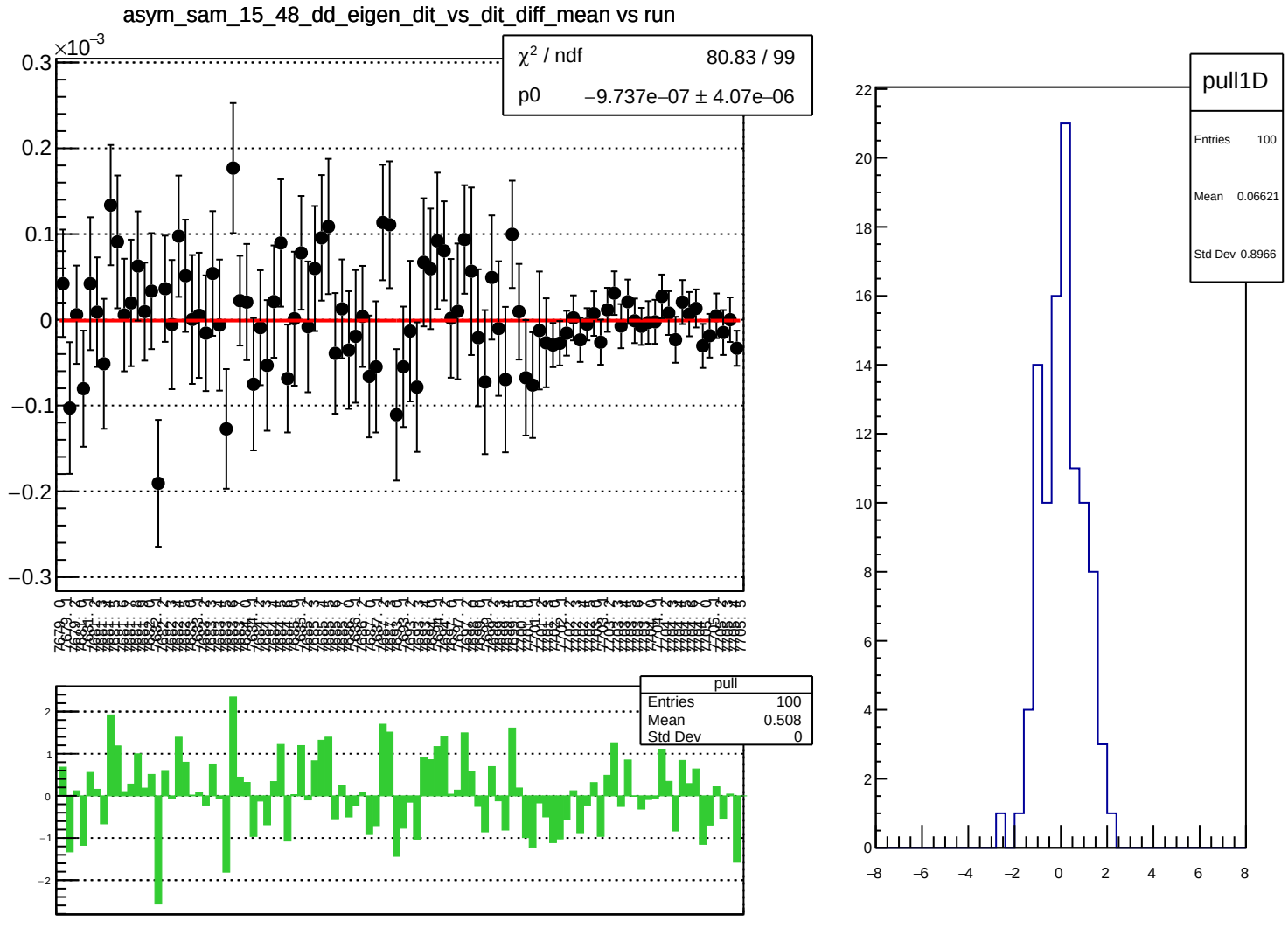

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.264e+06 / 99
p0 4.718e−11 ± 5.8e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

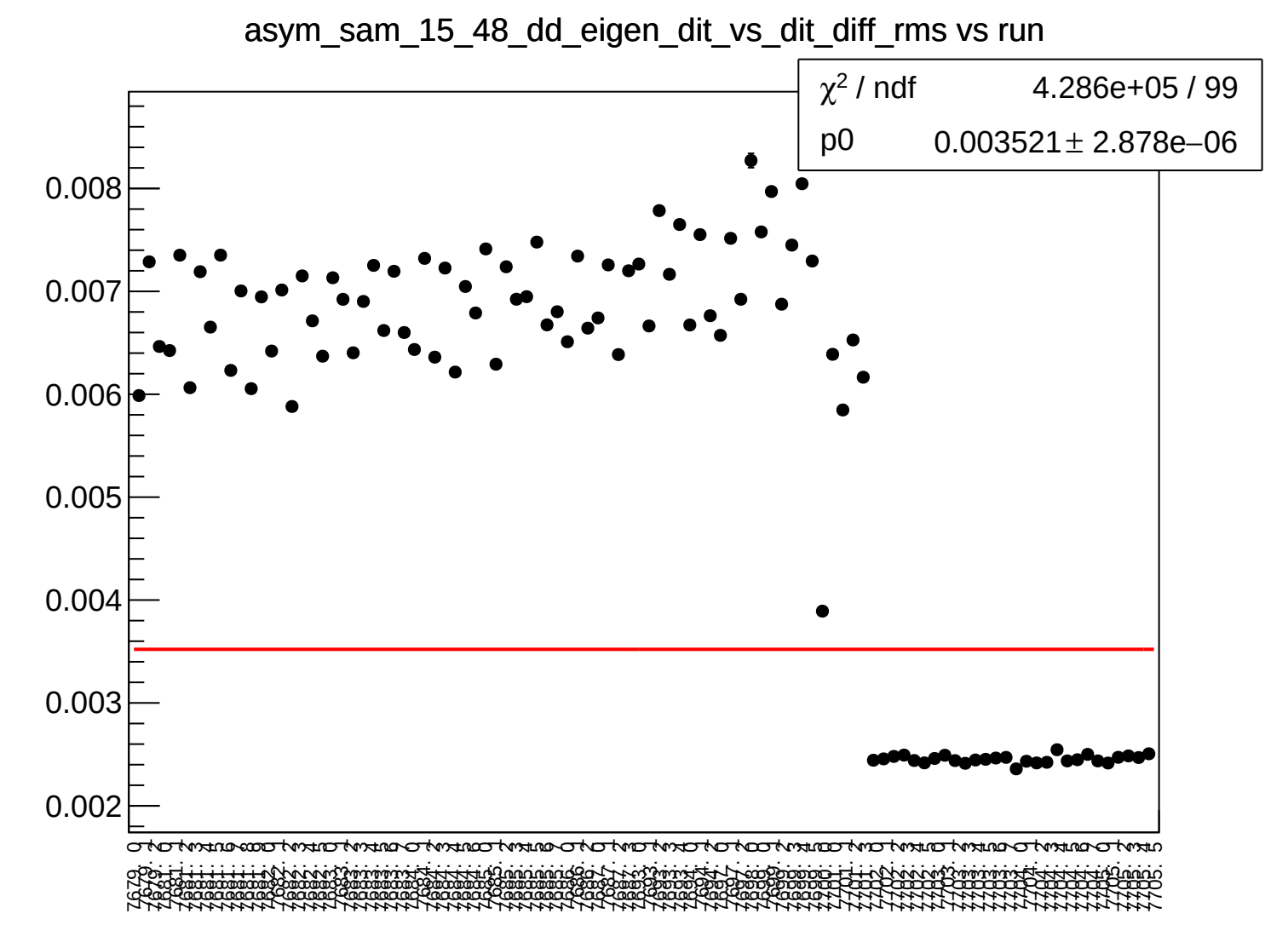

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.77 / 99
p0 0.02013 ± 0.03406
pull
Entries 100
Mean −2.108e+04
Std Dev 0
pull1D
Entries 100
Mean 4.621e−05
Std Dev 0.9261

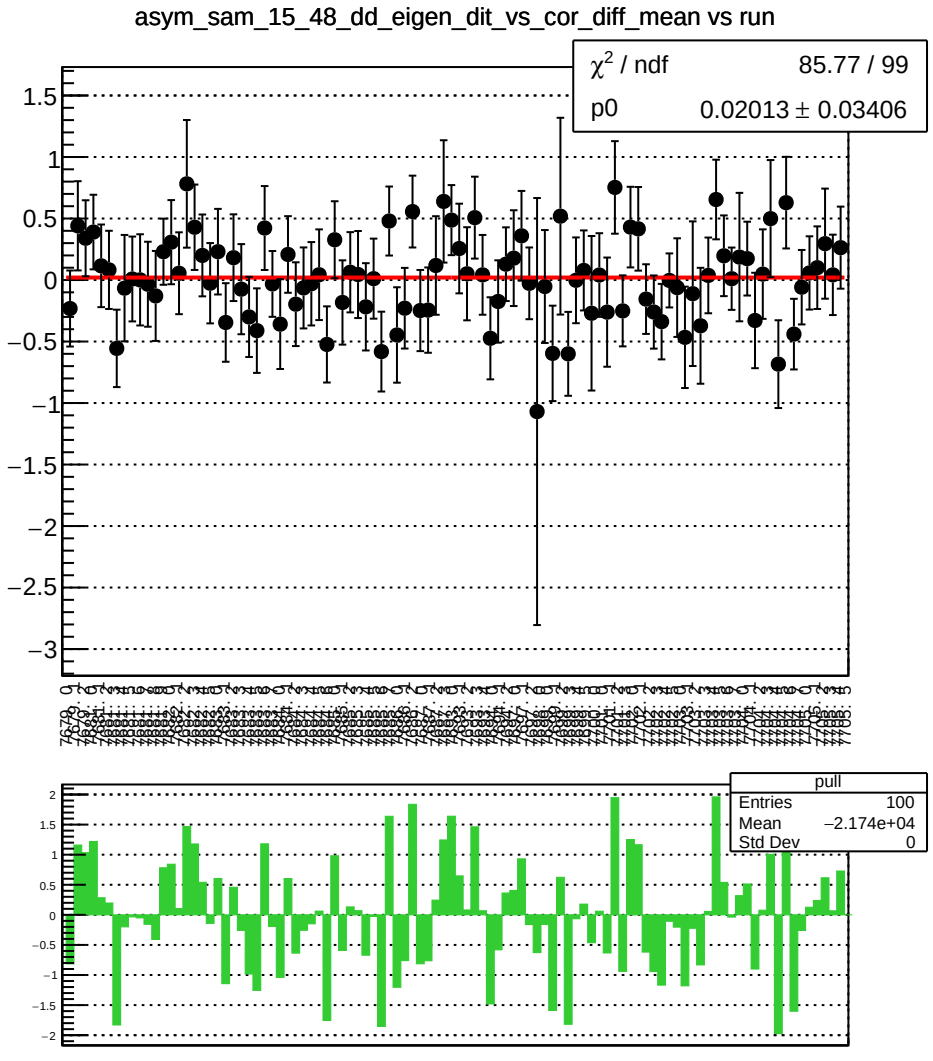

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.28e+04 / 99
p0 33.04 ± 0.02408
160
140
120
100
80
60
40
20

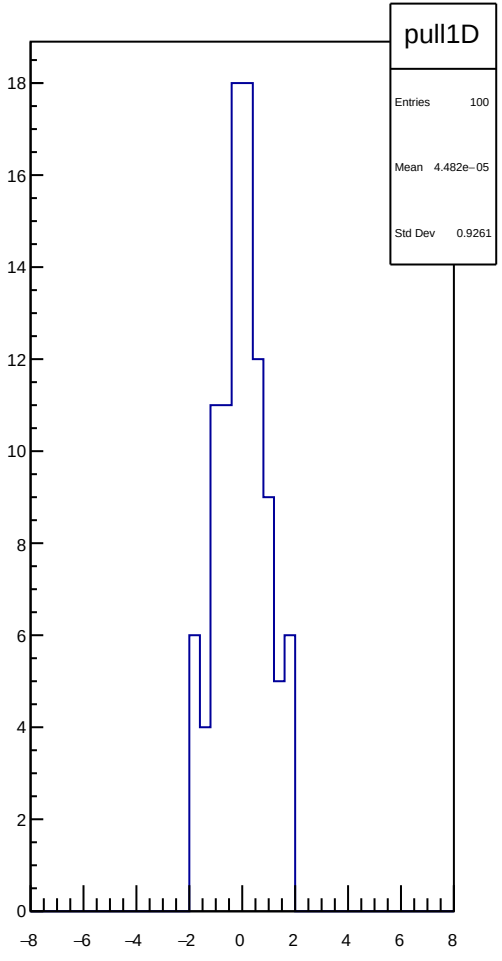

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.77 / 99
p0 0.02013 ± 0.03406
pull
Entries 100
Mean −2.108e+04
Std Dev 0
pull1D
Entries 100
Mean 4.621e−05
Std Dev 0.9261

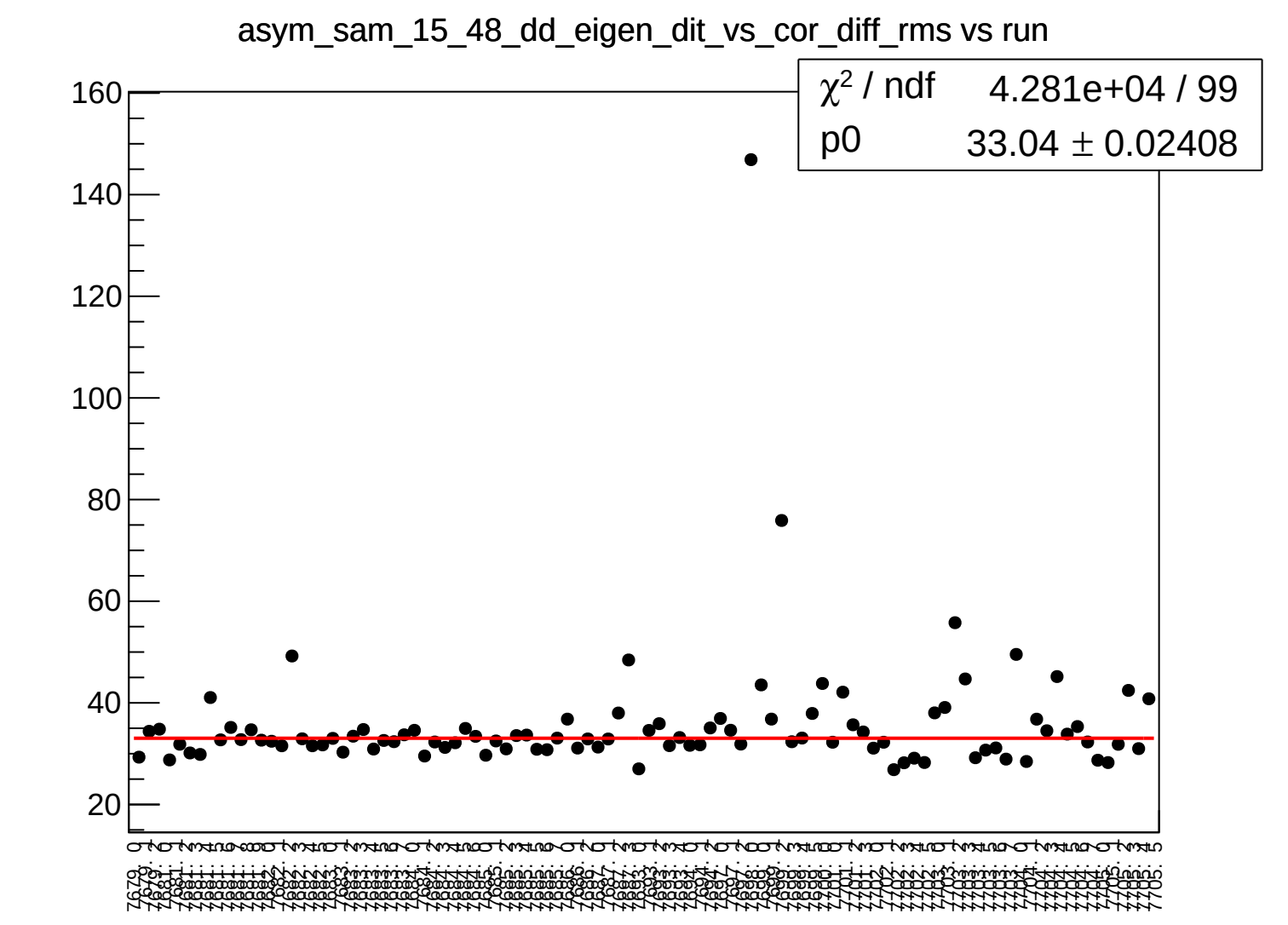

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.28e+04 / 99
p0 33.04 ± 0.02408
160
140
120
100
80
60
40
20

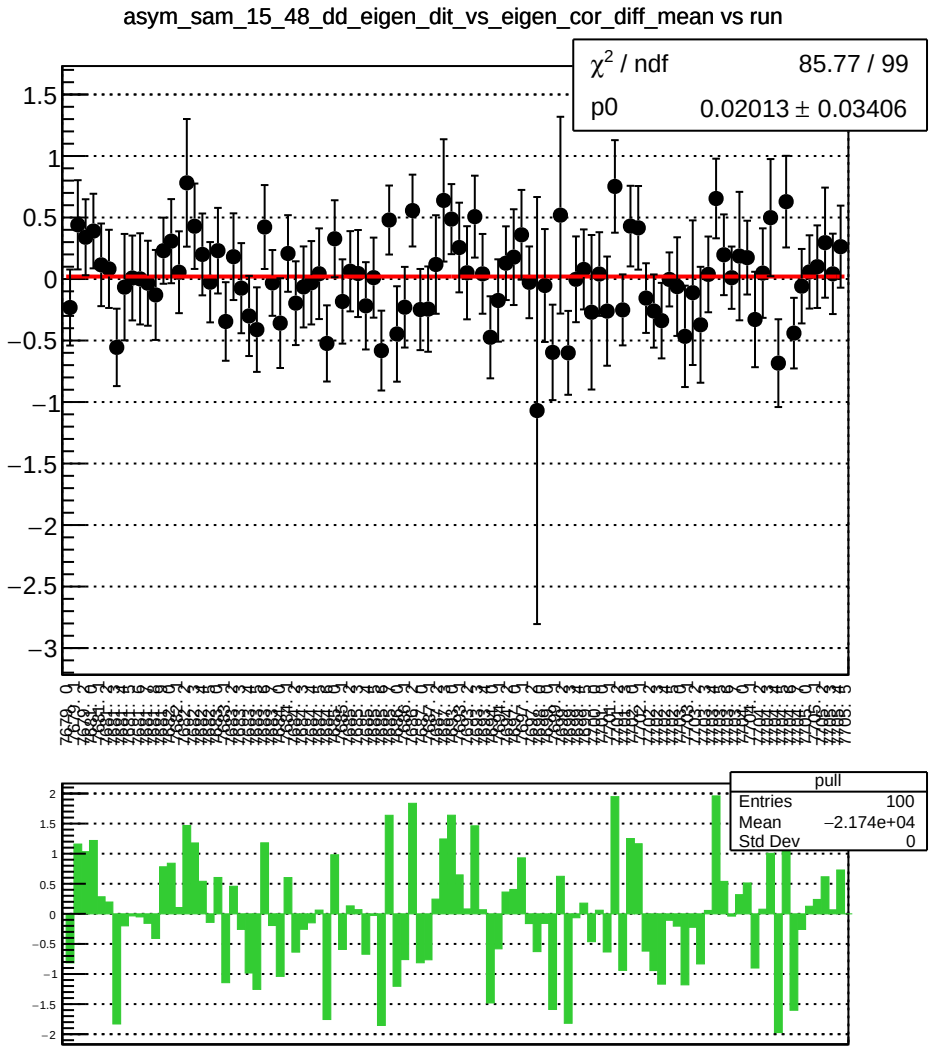

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.83 / 99
p0 −9.737e−07 ± 4.07e−06
pull
Entries 100
Mean 0.508
Std Dev 0
pull1D
Entries 100
Mean 0.06621
Std Dev 0.8966

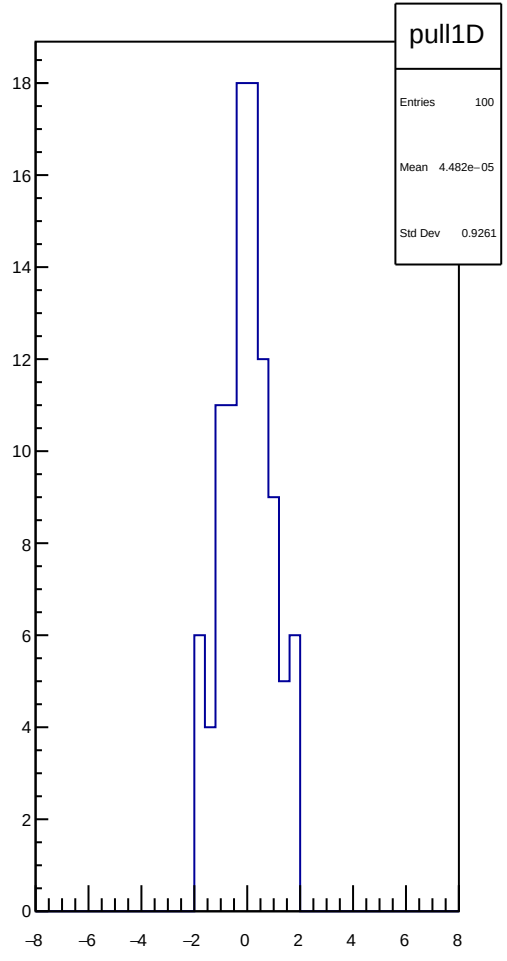

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.286e+05 / 99
p0 0.003521 ± 2.878e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002

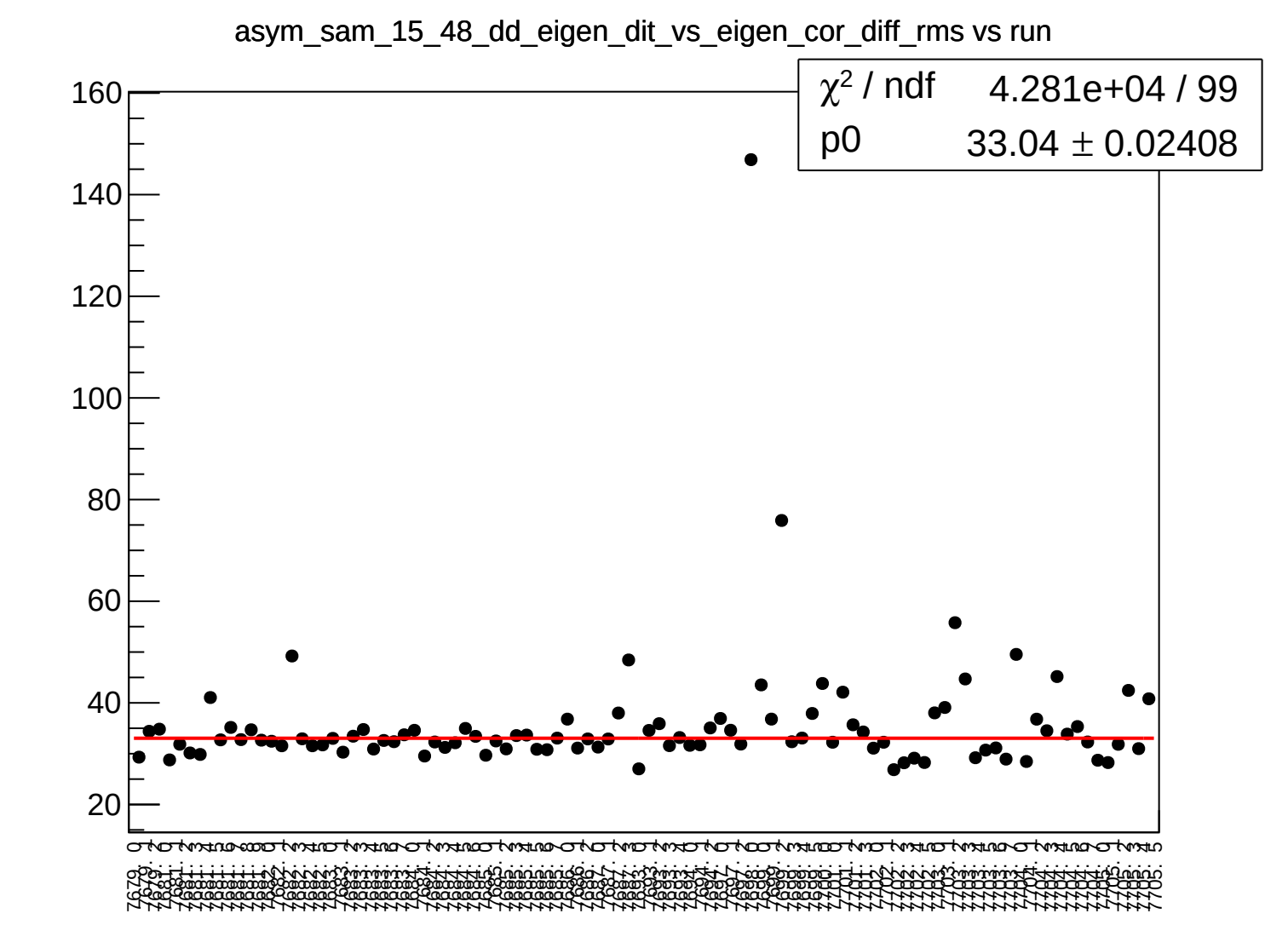

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.77 / 99
p0 0.02013 ± 0.03406
pull
Entries 100
Mean −2.174e+04
Std Dev 0

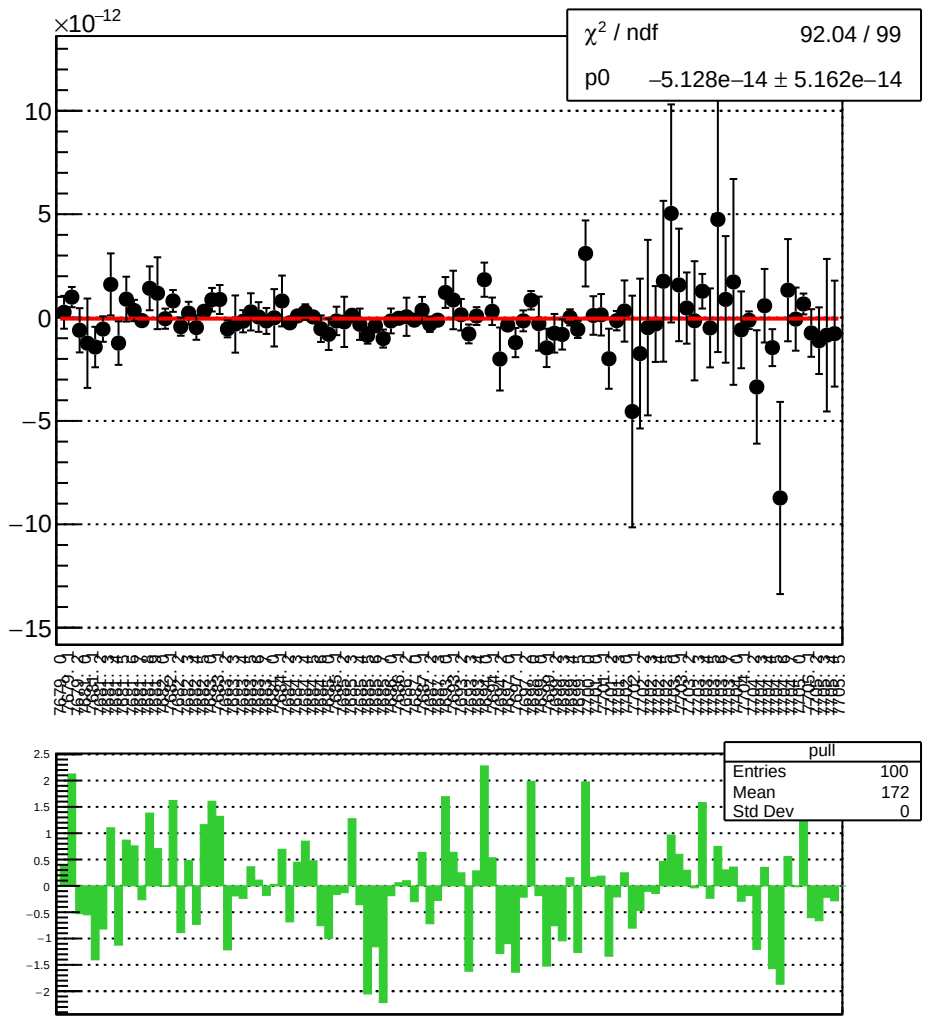

pull1D
Entries 100
Mean 4.482e−05
Std Dev 0.9261

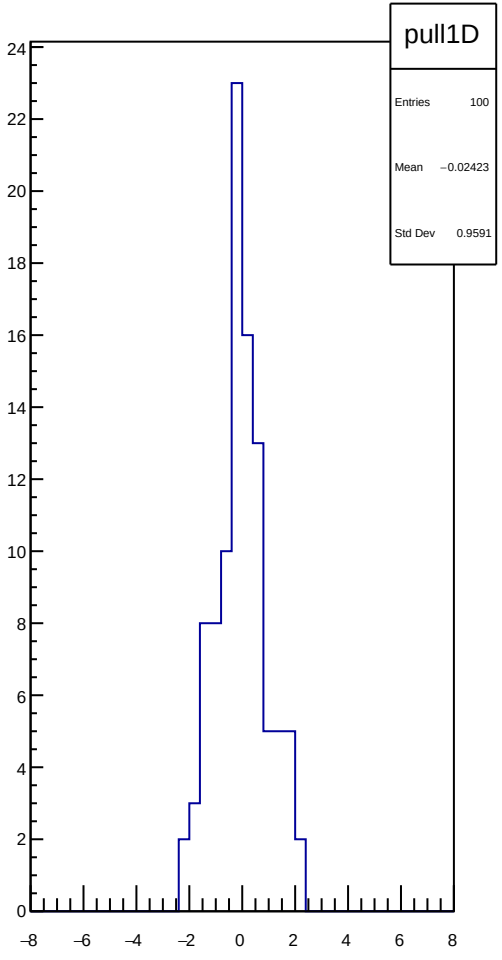

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.281e+04 / 99
p0 33.04 ± 0.02408
160
140
120
100
80
60
40
20

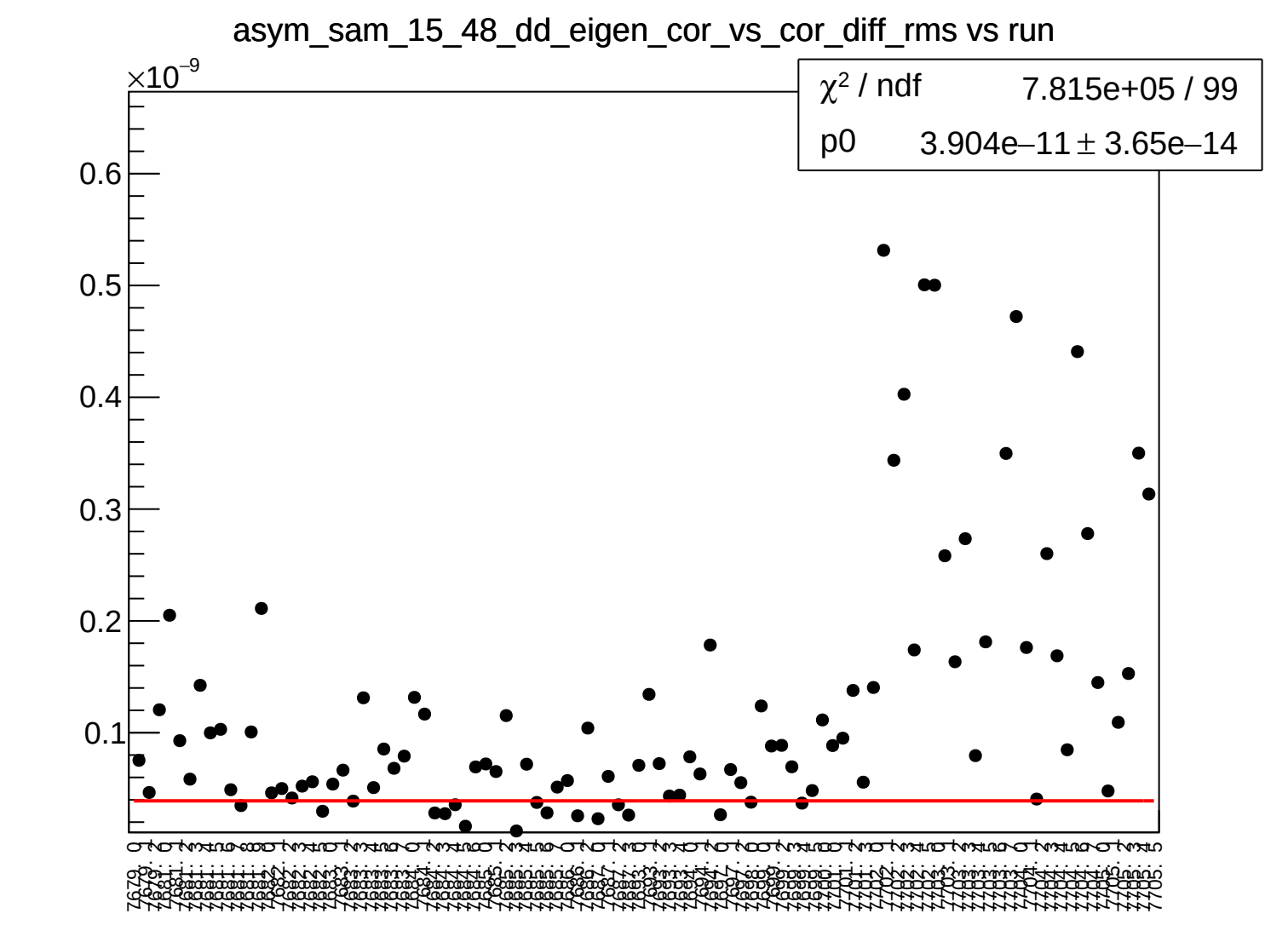

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.77 / 99
p0 0.02013 ± 0.03406
pull
Entries 100
Mean −2.174e+04
Std Dev 0

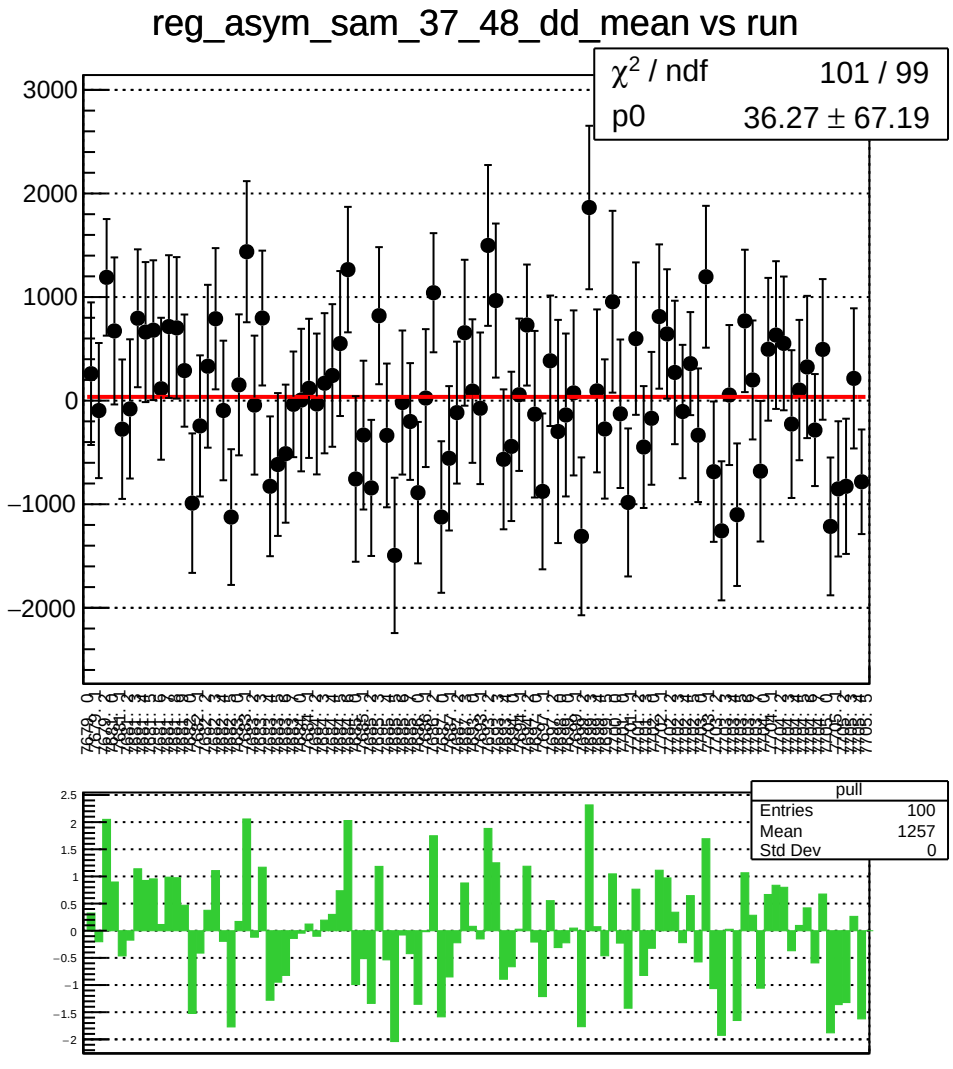

pull1D
Entries 100
Mean 4.482e−05
Std Dev 0.9261

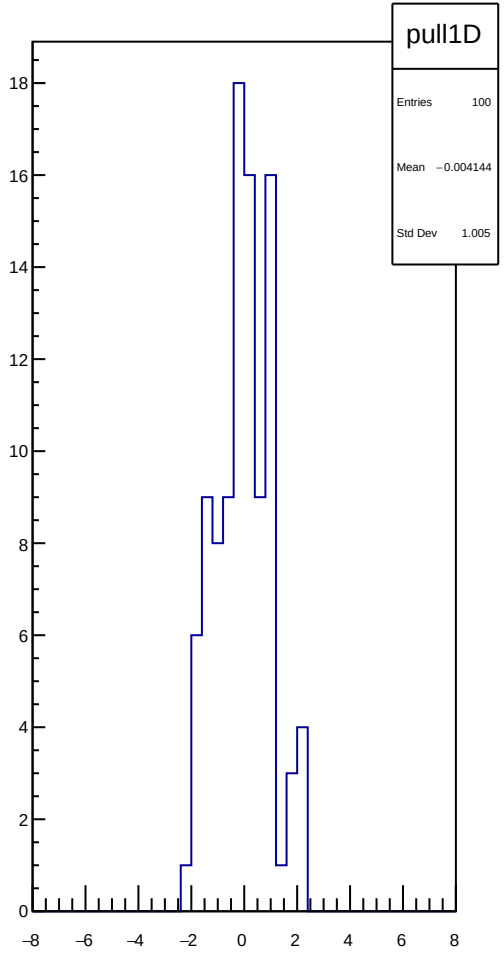

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.281e+04 / 99
p0 33.04 ± 0.02408
160
140
120
100
80
60
40
20

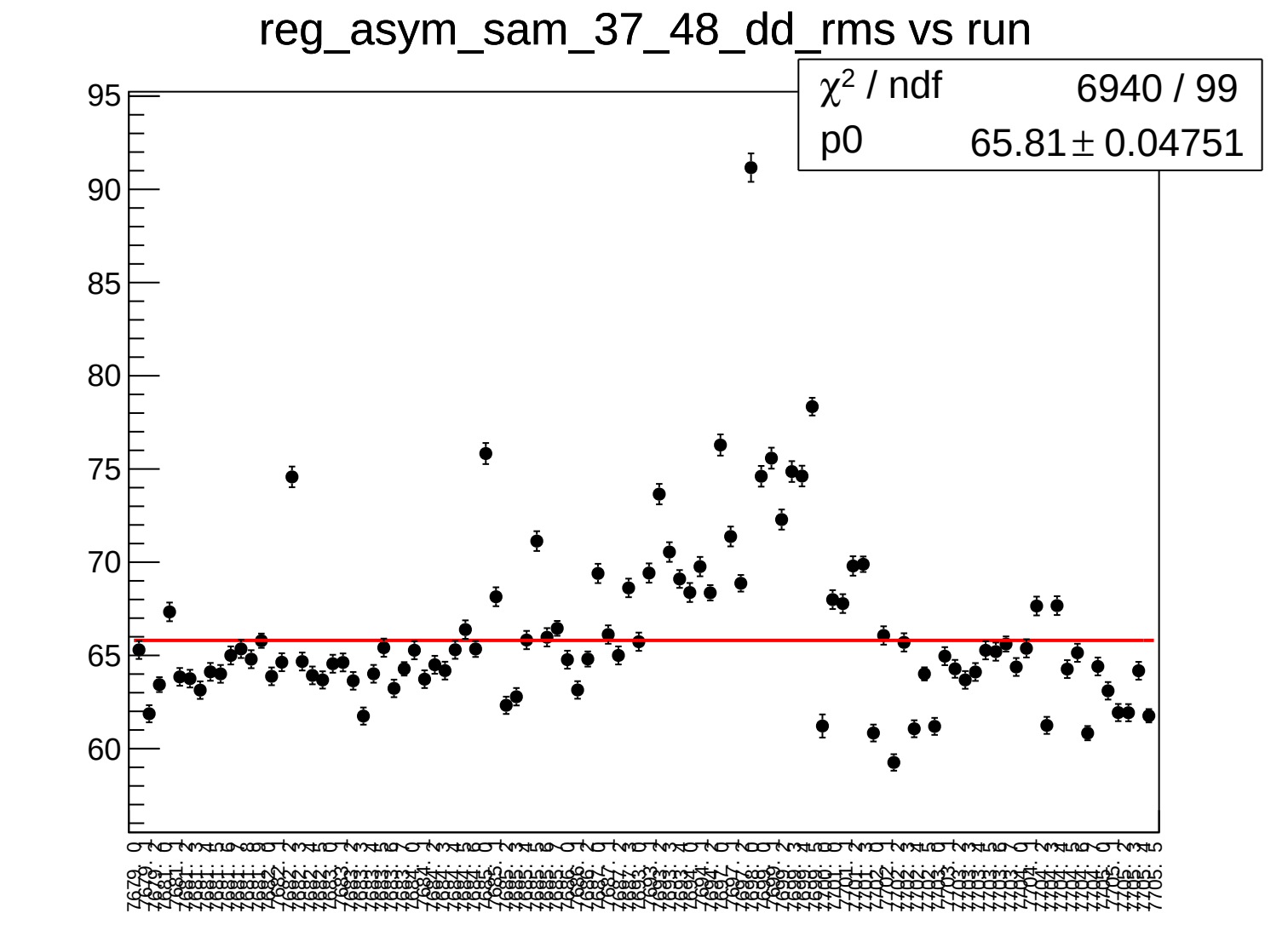

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.04 / 99
p0 −5.128e−14 ± 5.162e−14
pull
Entries 100
Mean 172
Std Dev 0

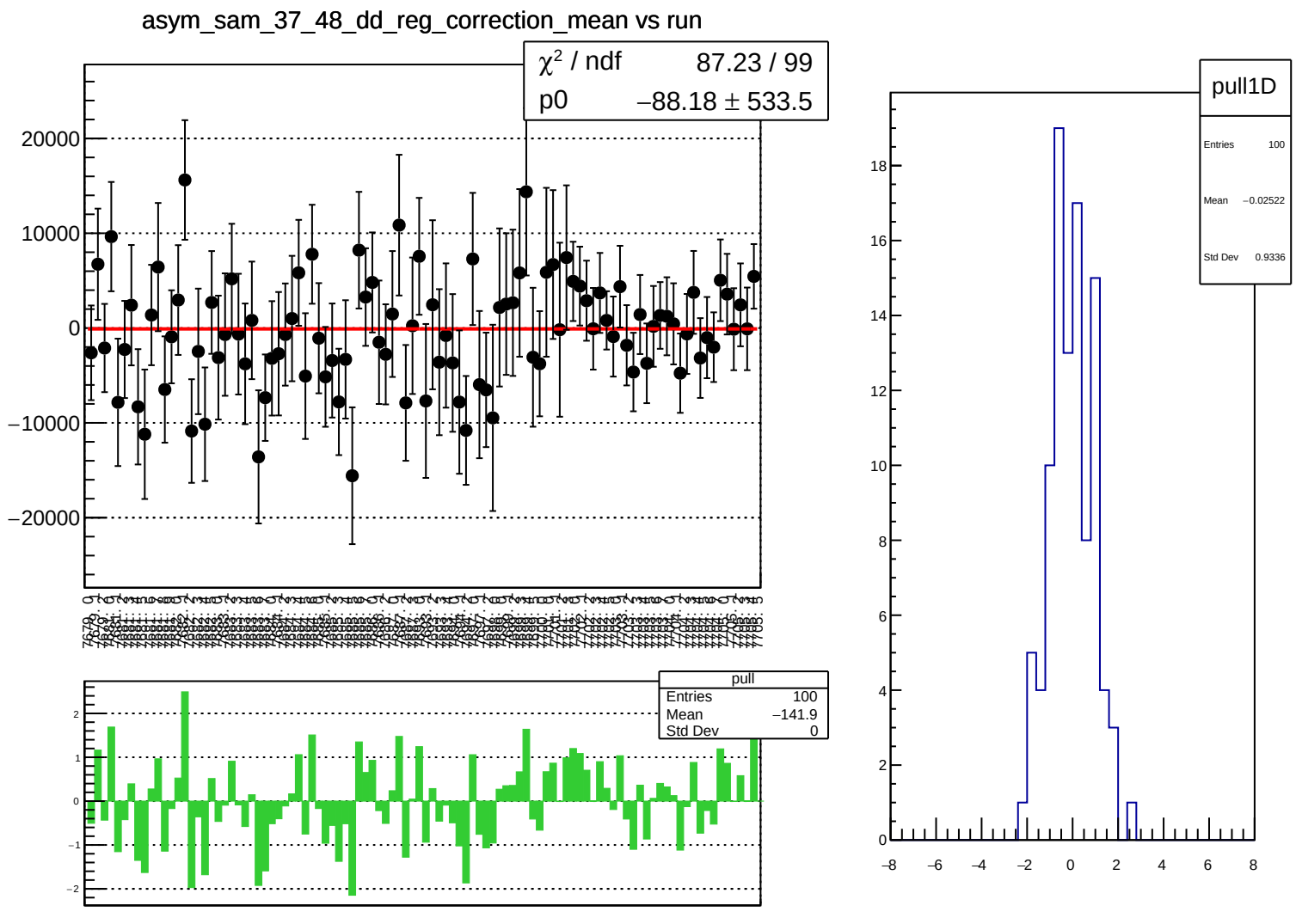

pull1D
Entries 100
Mean −0.02423
Std Dev 0.9591

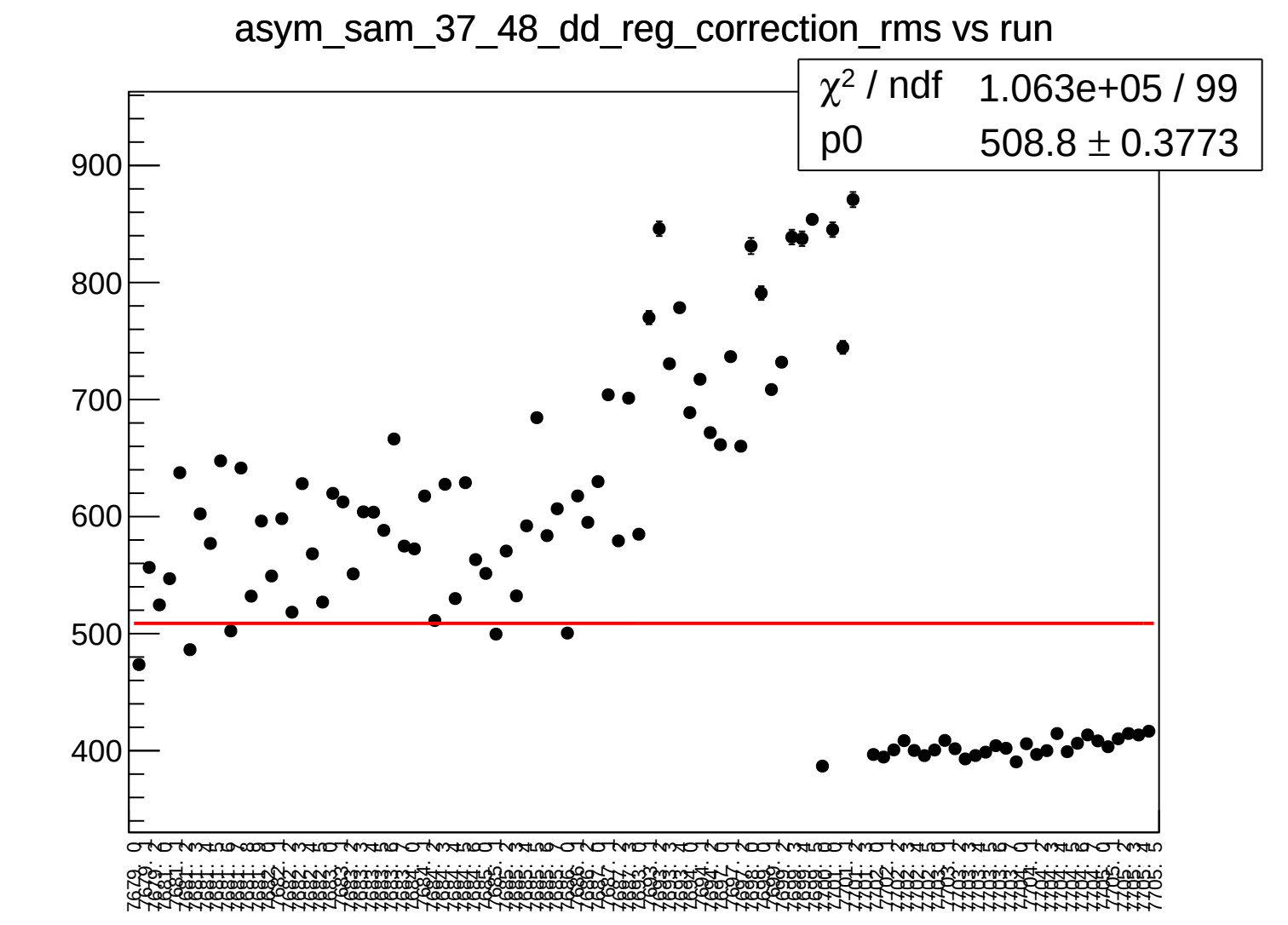

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.815e+05 / 99
p0 3.904e−11 ± 3.65e−14
0.6
0.5
0.4
0.3
0.2
0.1

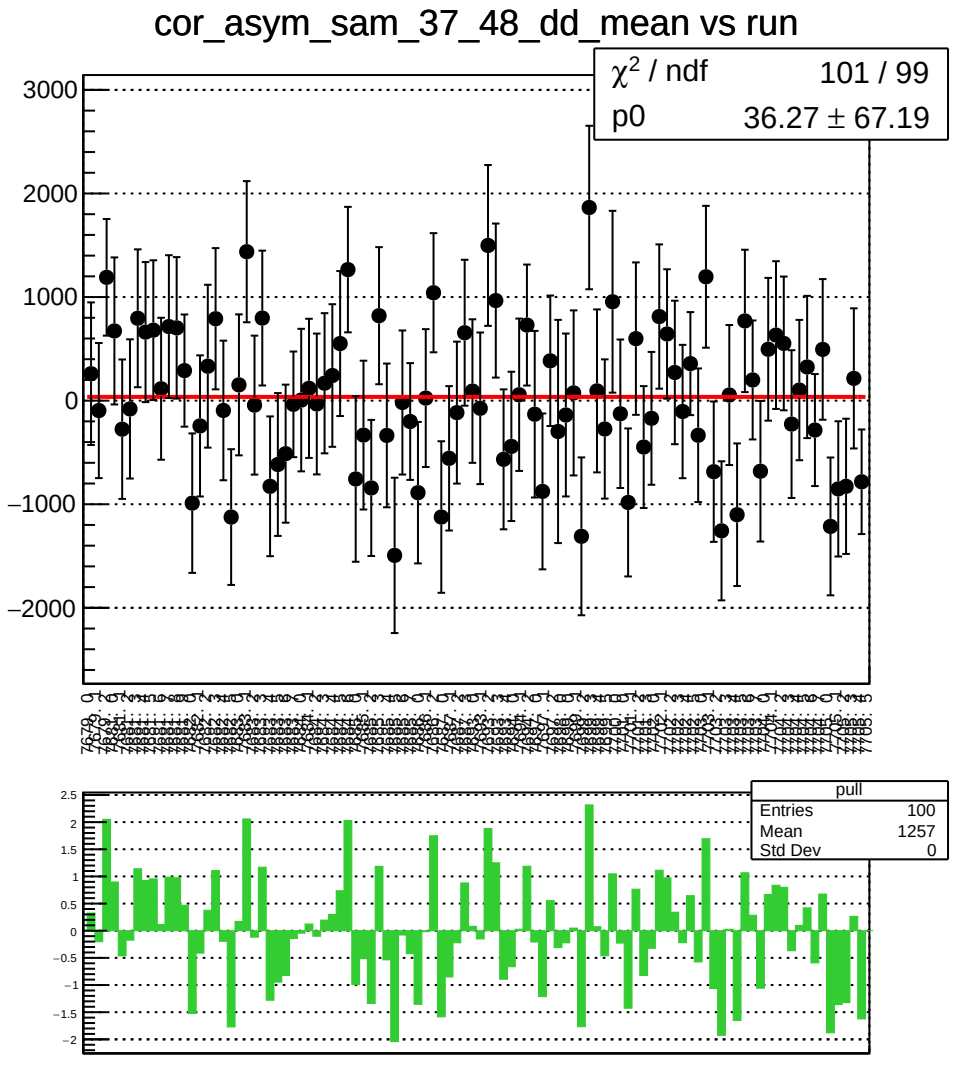

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 101 / 99
p0 36.27 ± 67.19
3000
2000
1000
0
−1000
−2000
pull
Entries 100
Mean 1257
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

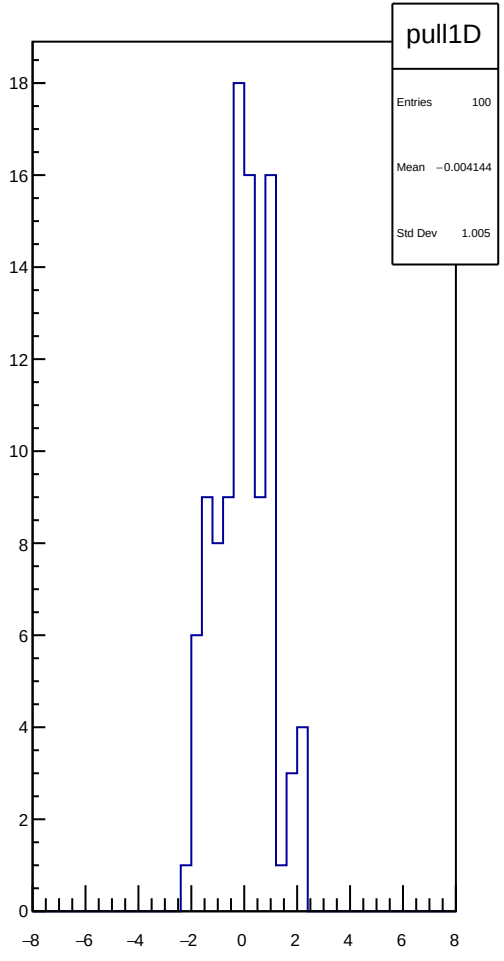

pull1D
Entries 100
Mean −0.004144
Std Dev 1.005
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

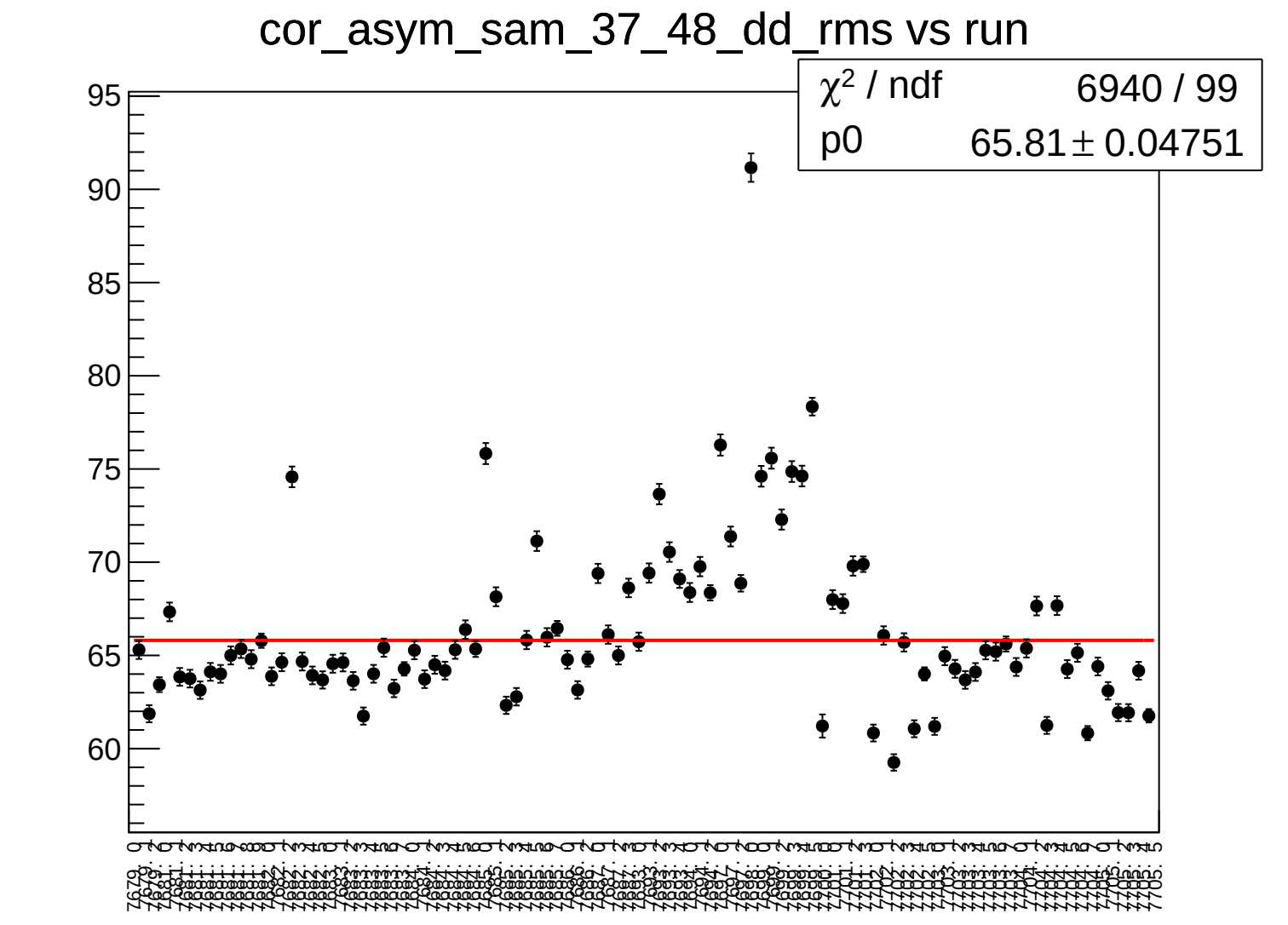

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 6940 / 99
p0 65.81 ± 0.04751
95
90
85
80
75
70
65
60

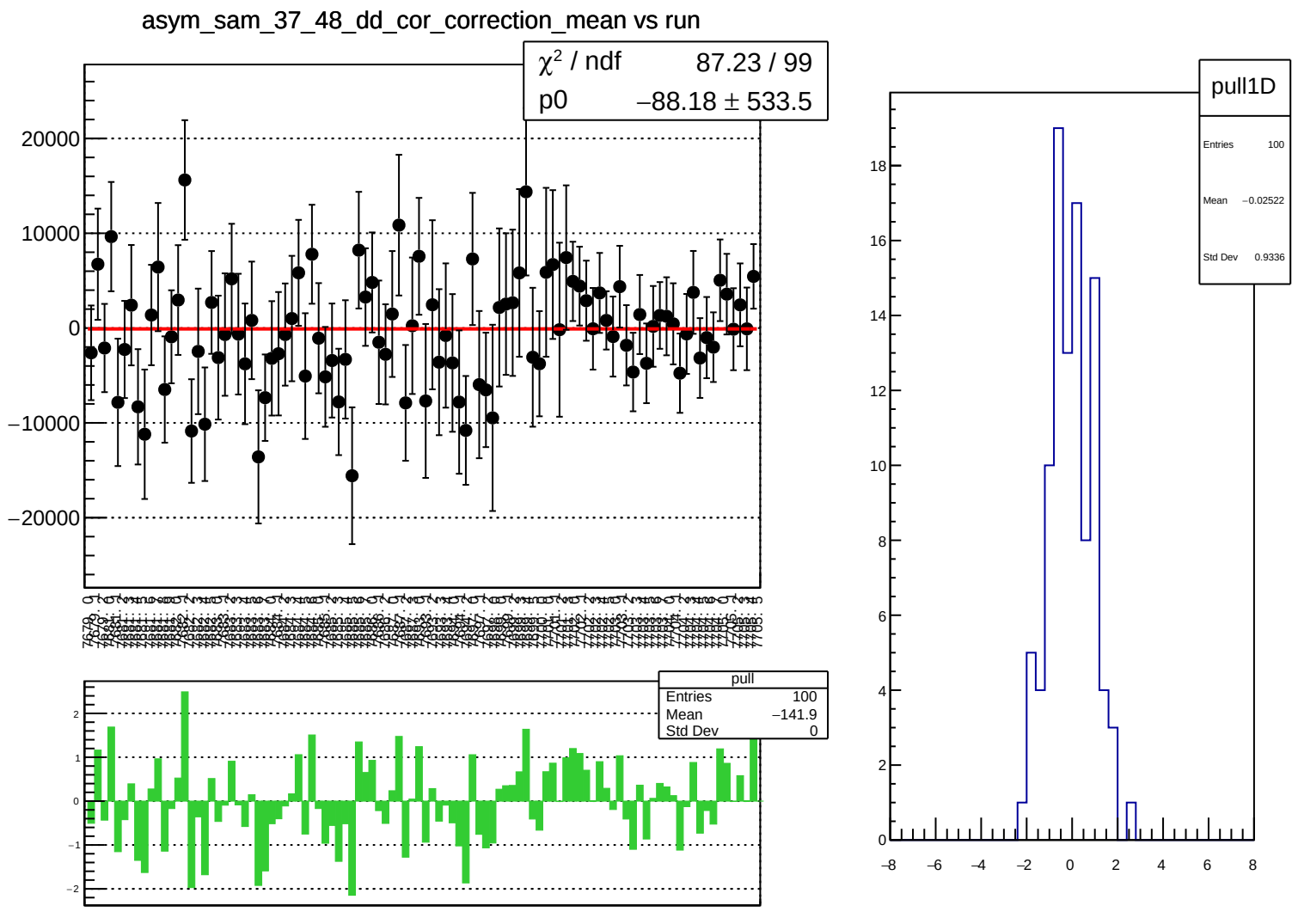

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 87.23 / 99
p0 −88.18 ± 533.5
20000
10000
0
−10000
−20000
pull
Entries 100
Mean −141.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.02522
Std Dev 0.9336
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

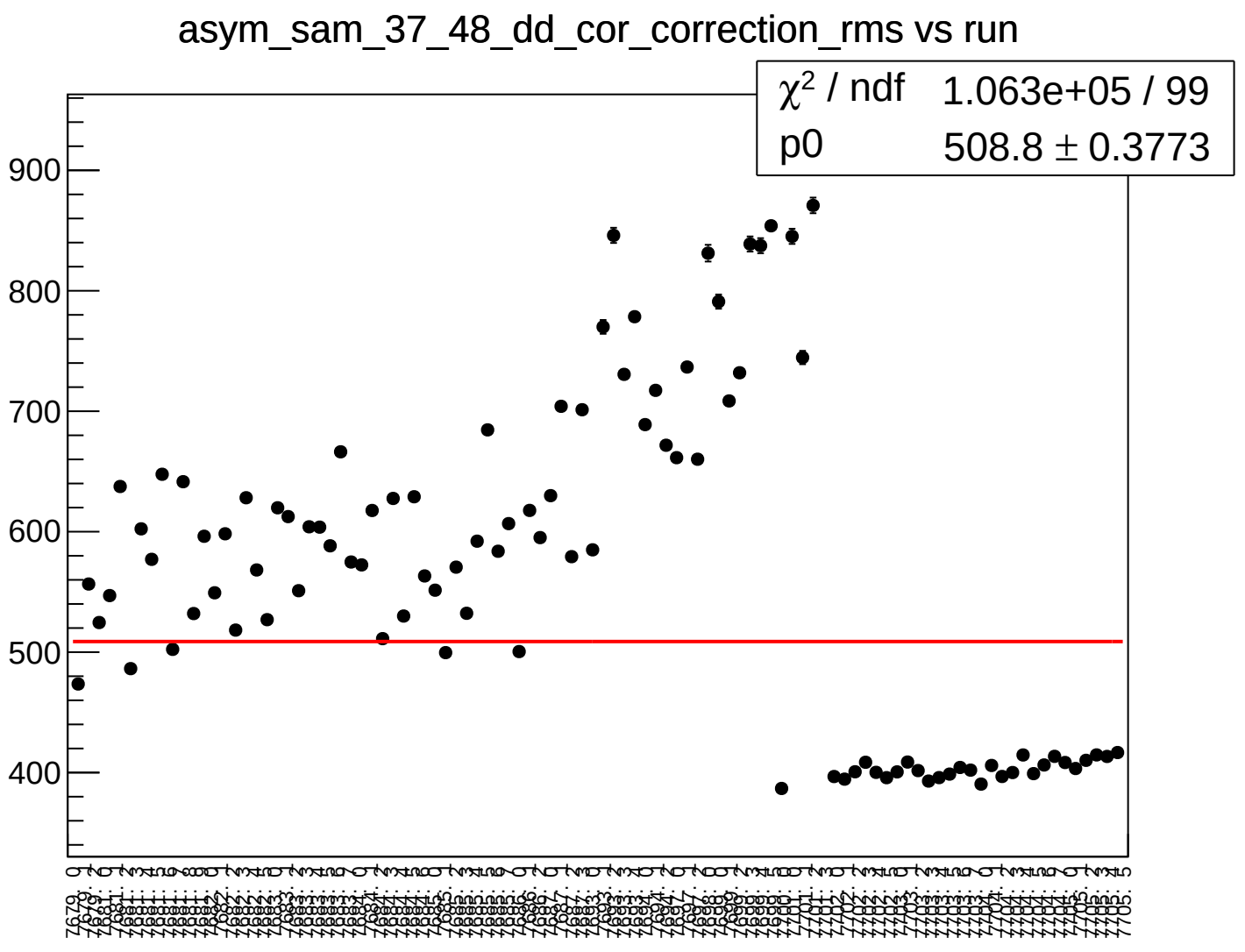

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 1.063e+05 / 99
p0 508.8 ± 0.3773
900
800
700
600
500
400

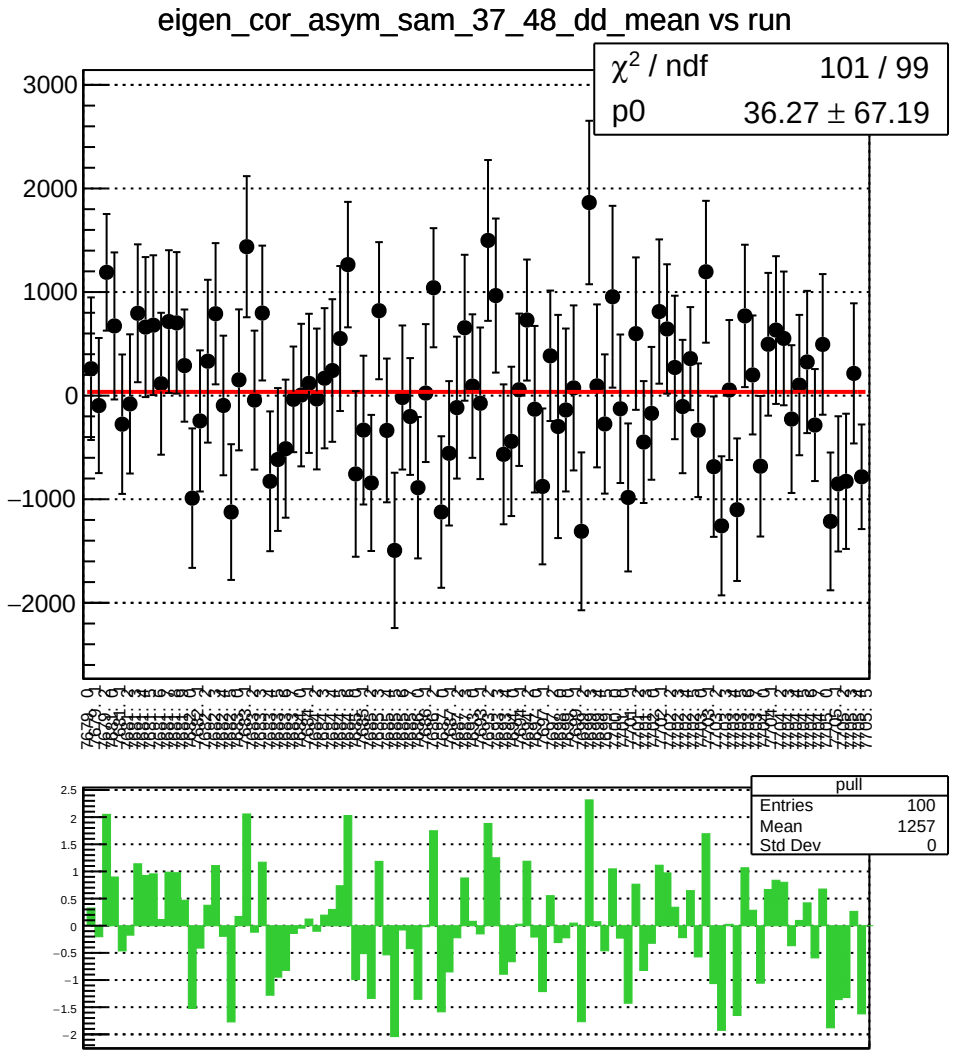

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 101 / 99
p0 36.27 ± 67.19
3000
2000
1000
0
−1000
−2000
pull
Entries 100
Mean 1257
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

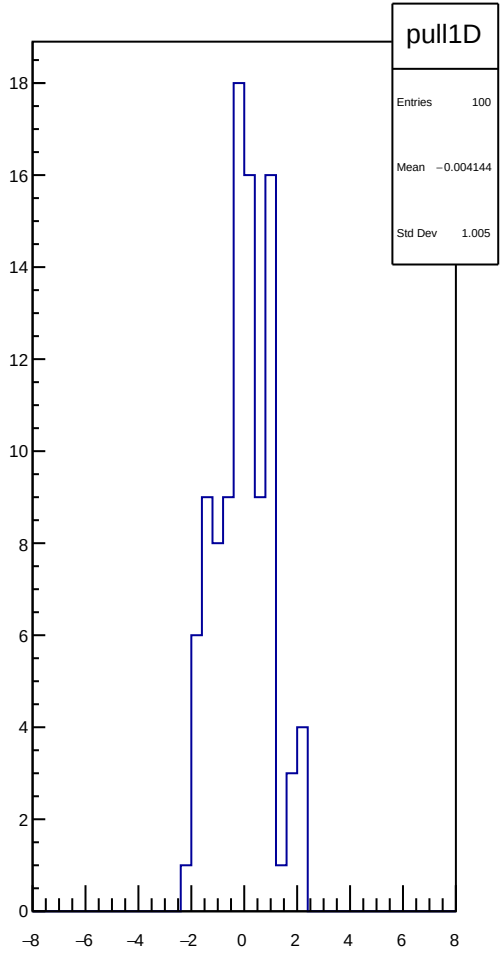

pull1D
Entries 100
Mean −0.004144
Std Dev 1.005
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

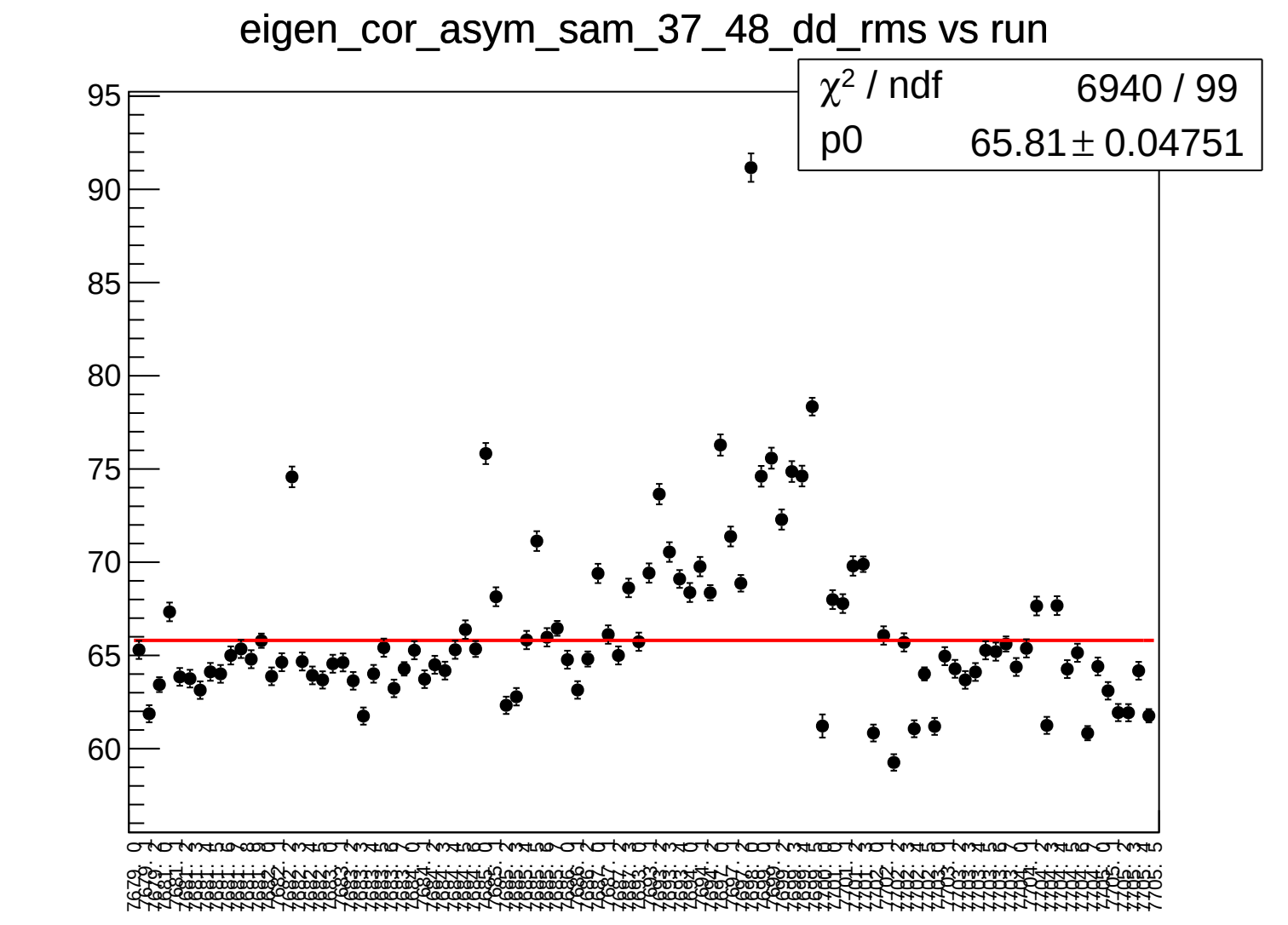

cor_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 6940 / 99
p0 65.81 ± 0.04751
95
90
85
80
75
70
65
60

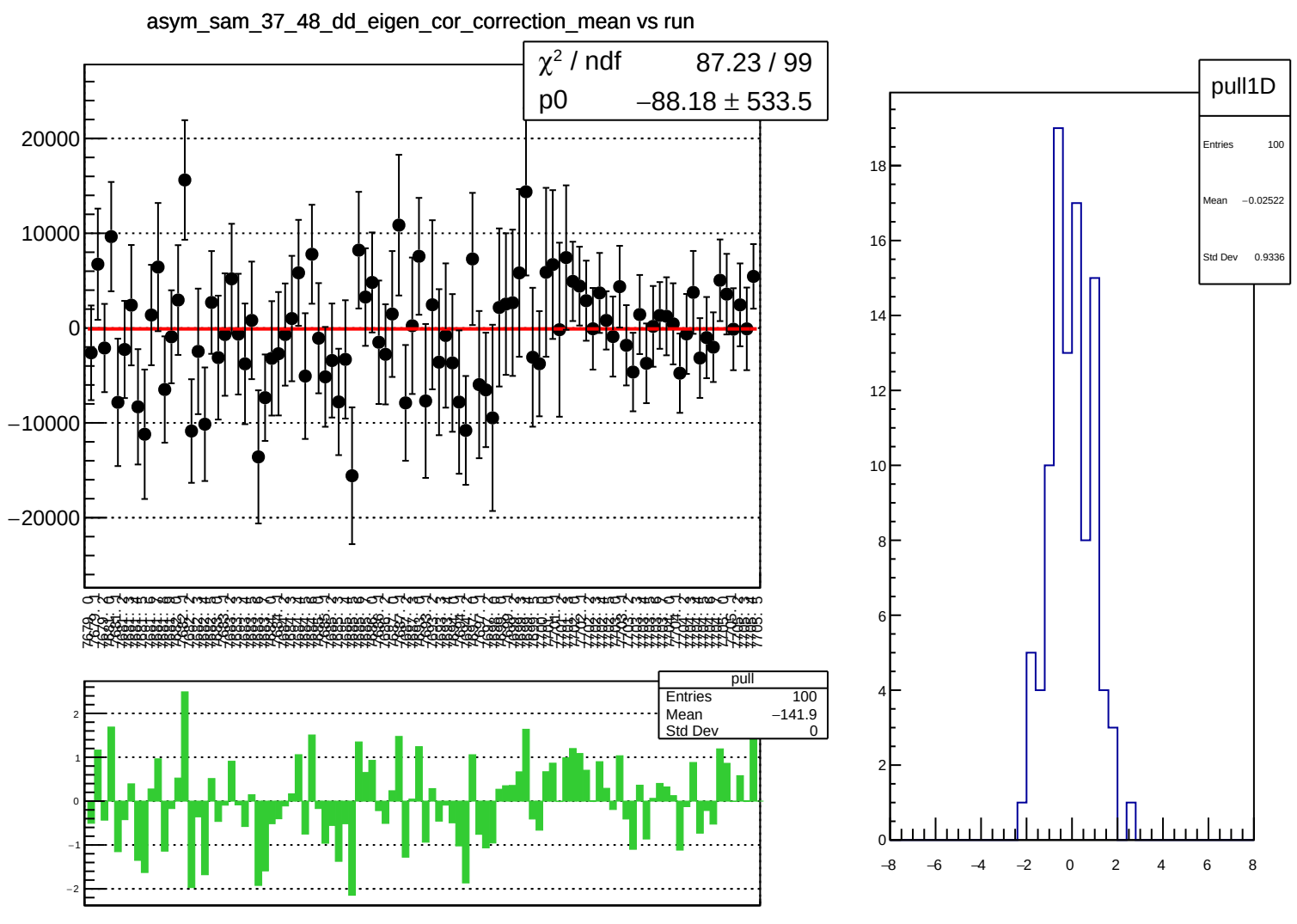

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 87.23 / 99
p0 −88.18 ± 533.5
20000
10000
0
−10000
−20000
pull
Entries 100
Mean −141.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.02522
Std Dev 0.9336
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

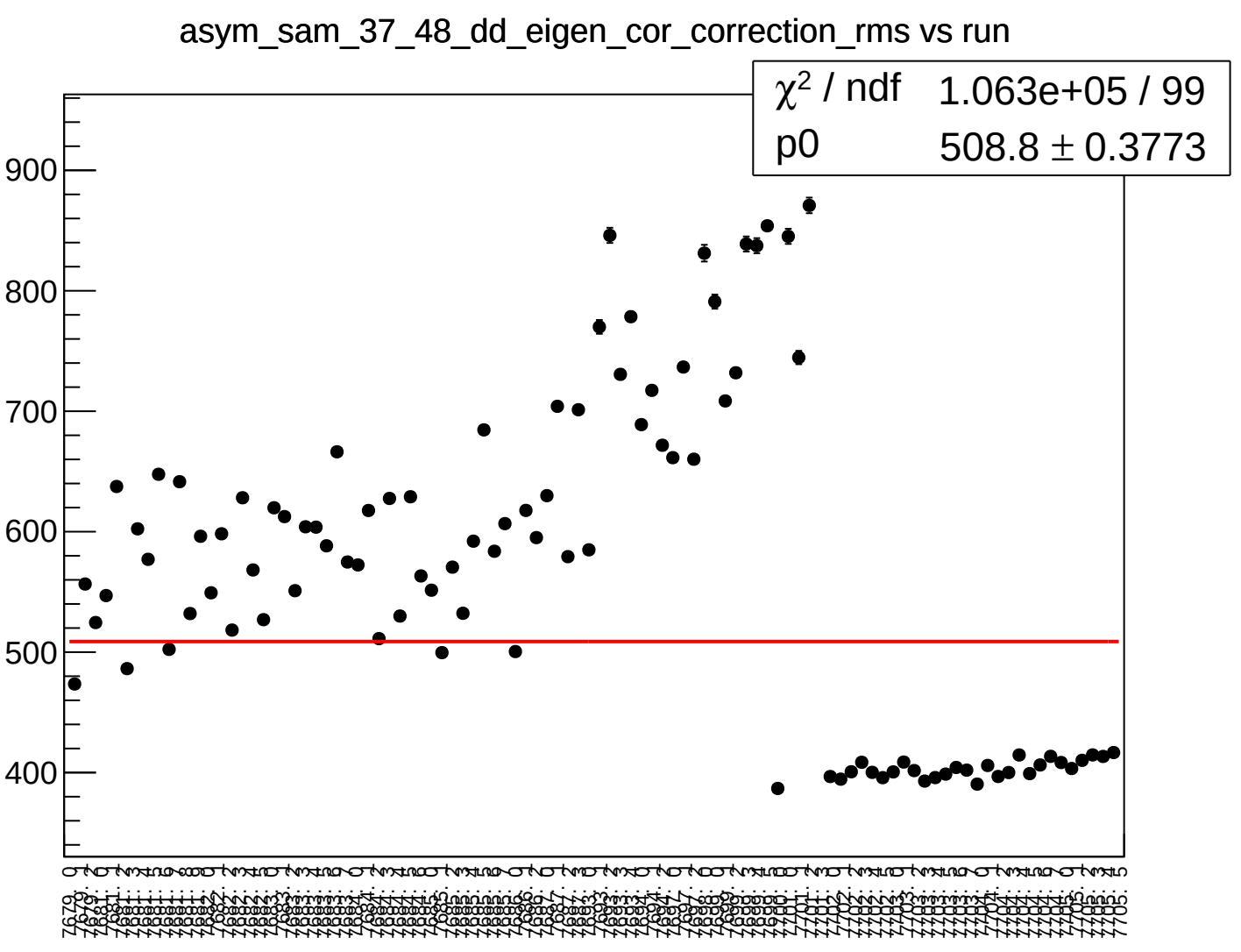

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 1.063e+05 / 99
p0 508.8 ± 0.3773
900
800
700
600
500
400

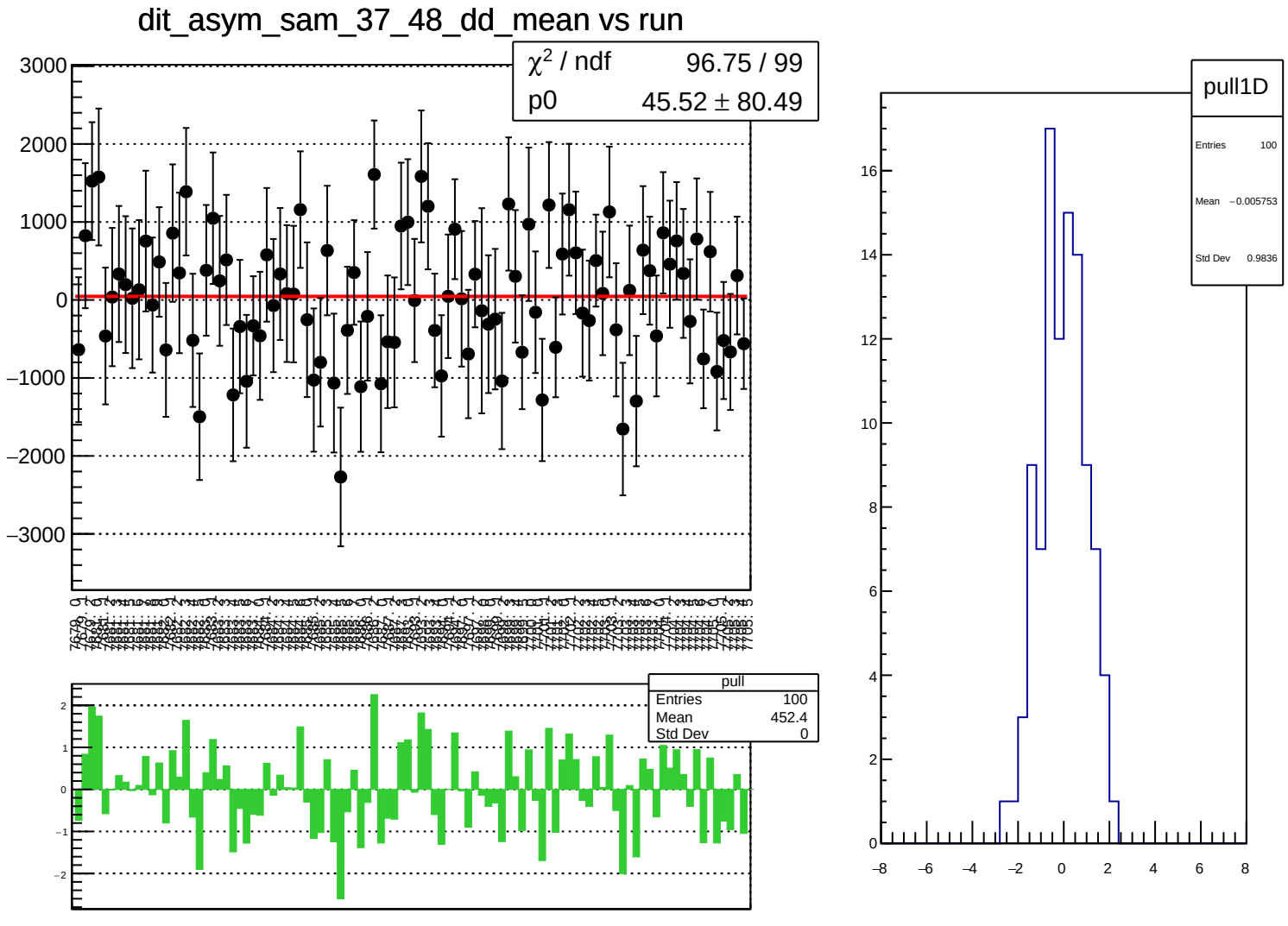

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 101 / 99
p0 36.27 ± 67.19
3000
2000
1000
0
−1000
−2000
pull
Entries 100
Mean 1257
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

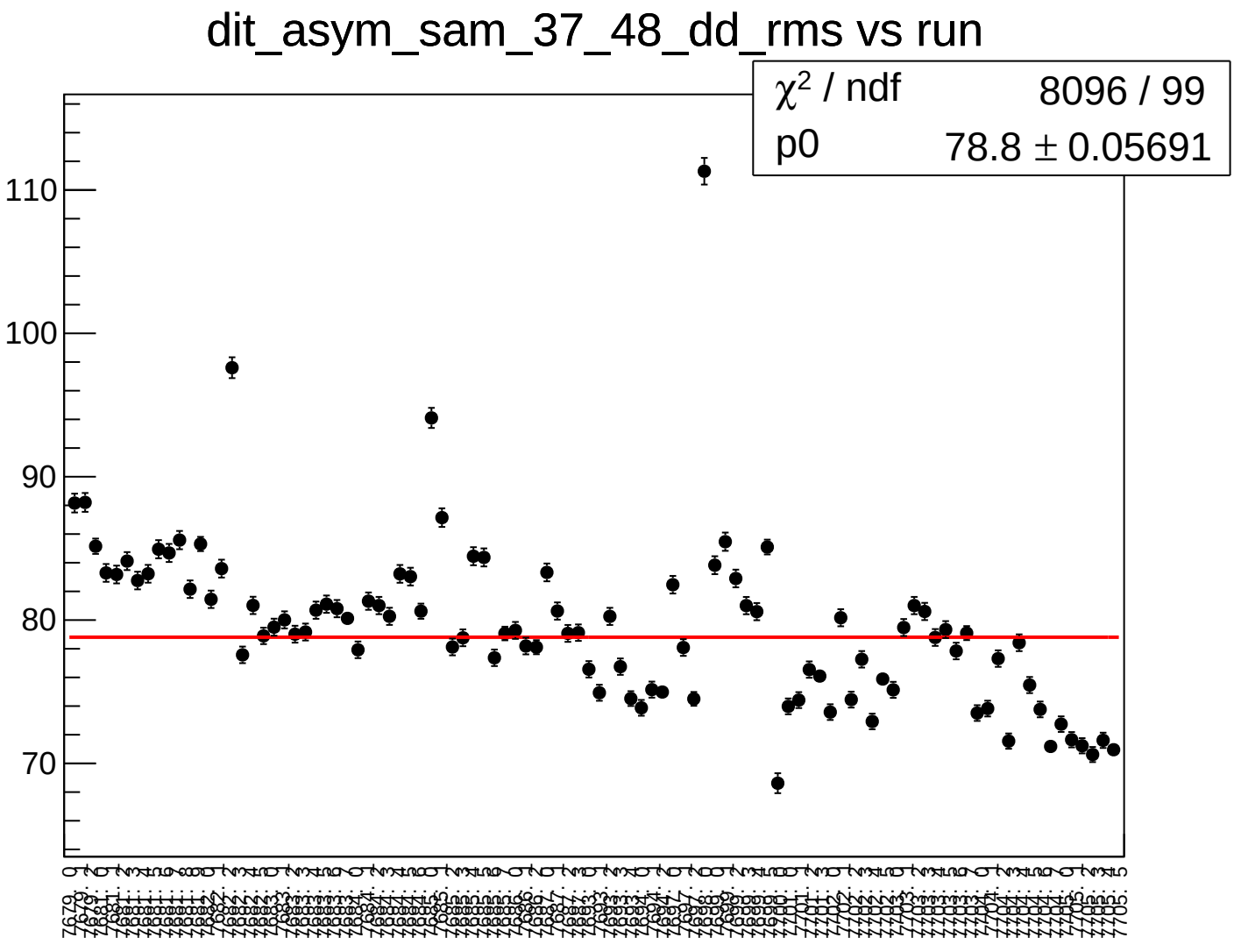

pull1D
Entries 100
Mean −0.004144
Std Dev 1.005
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

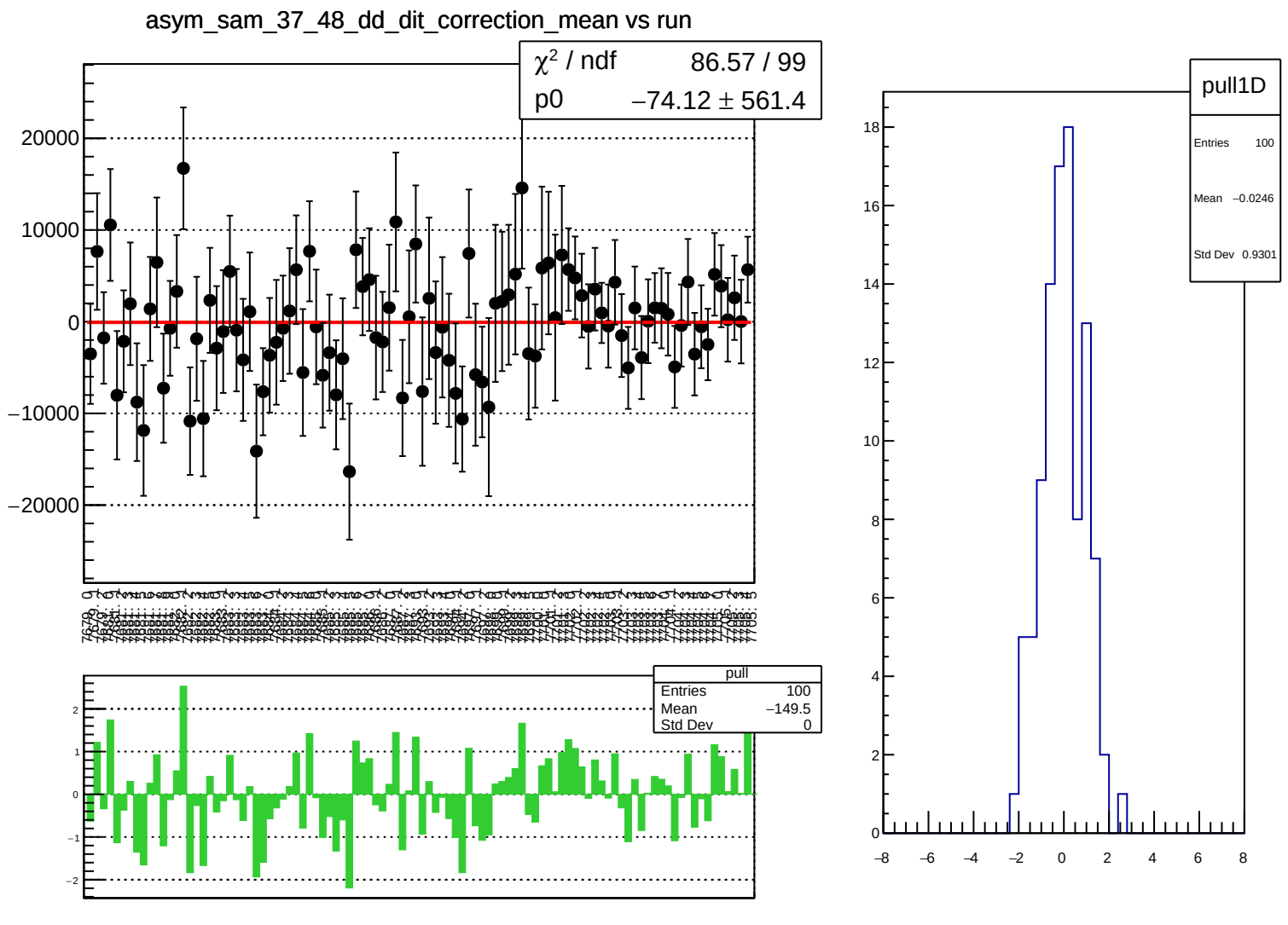

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 6940 / 99
p0 65.81 ± 0.04751
95
90
85
80
75
70
65
60

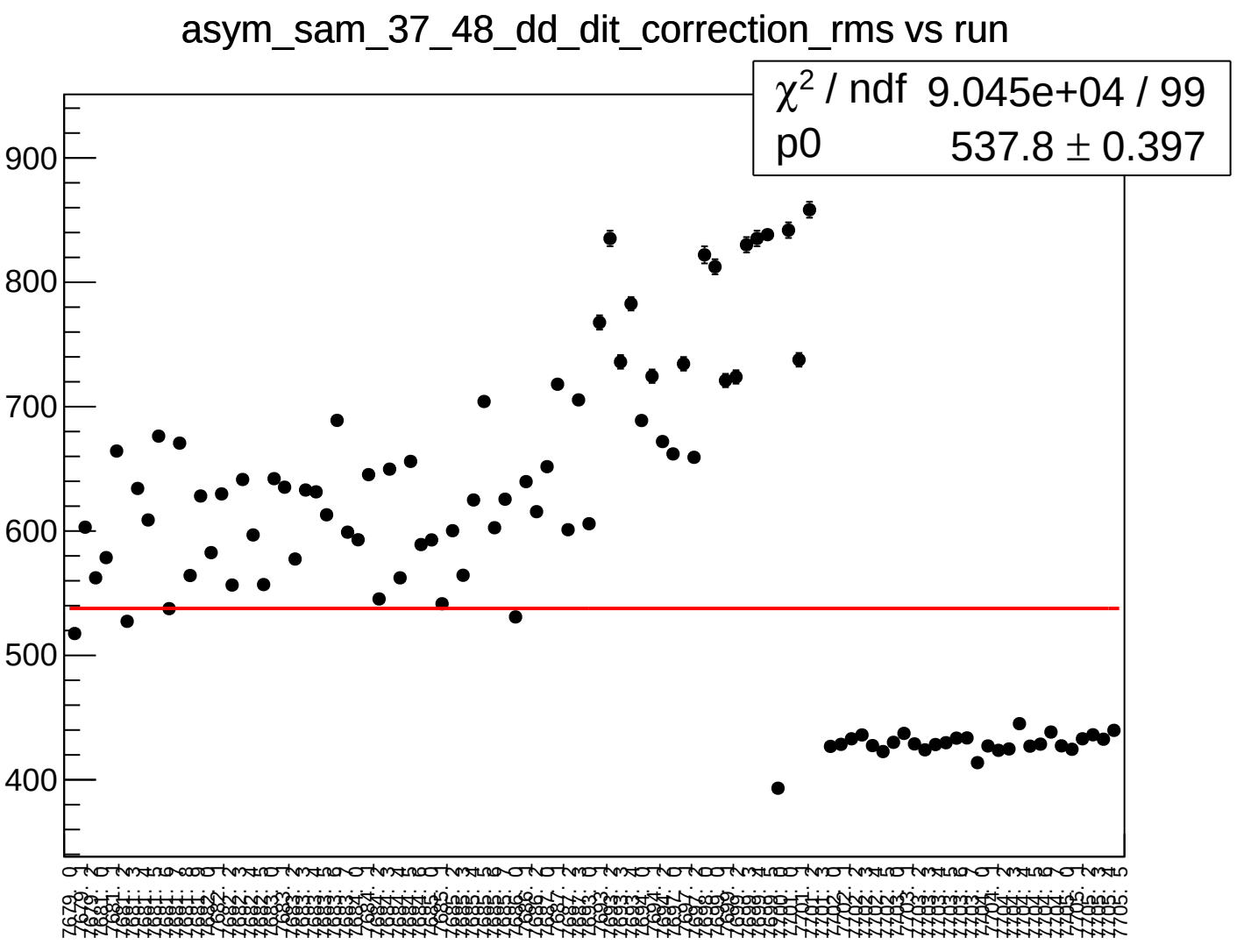

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 87.23 / 99
p0 −88.18 ± 533.5
20000
10000
0
−10000
−20000
pull
Entries 100
Mean −141.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.02522
Std Dev 0.9336
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

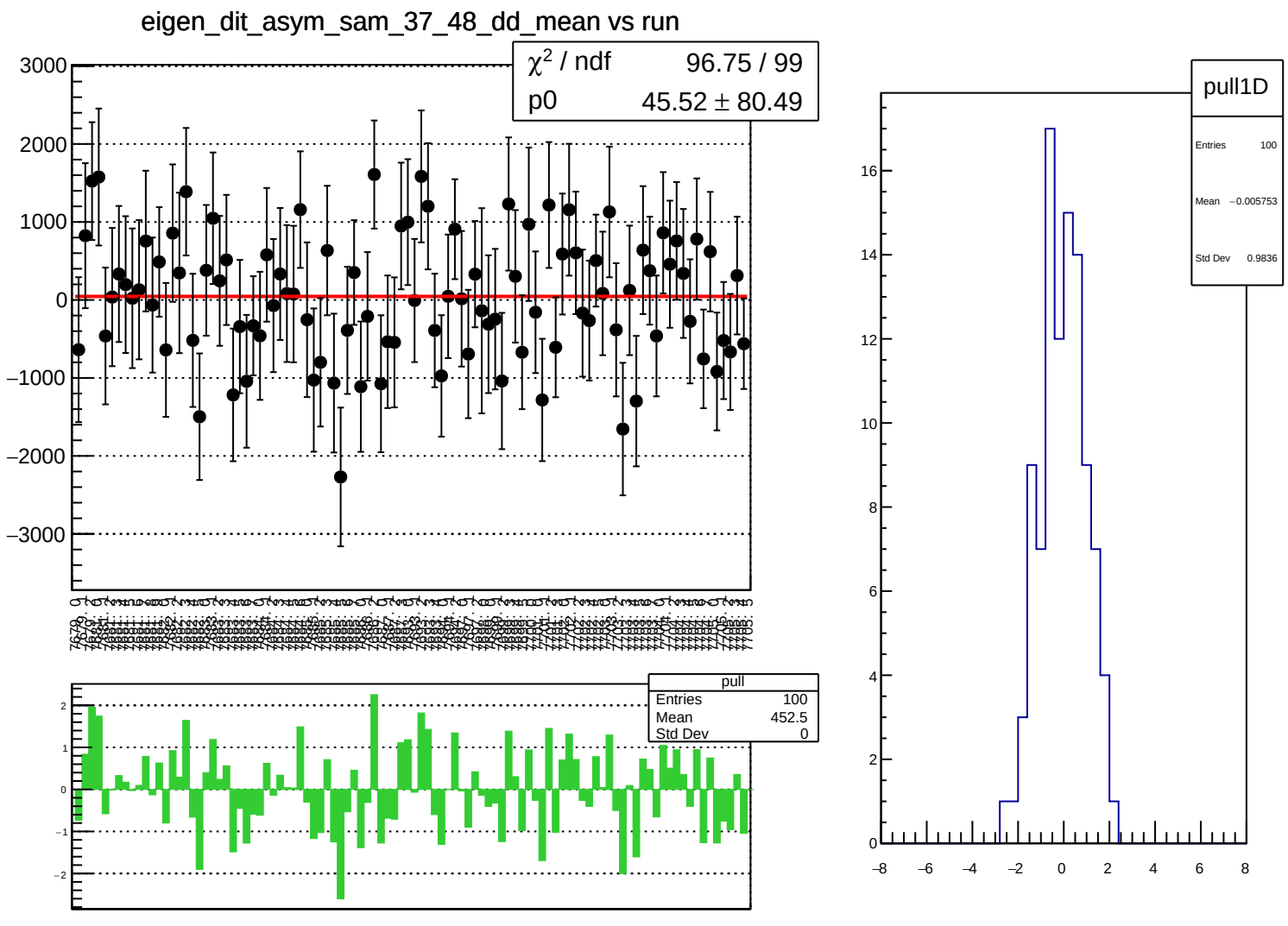

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.063e+05 / 99
p0 508.8 ± 0.3773
900
800
700
600
500
400

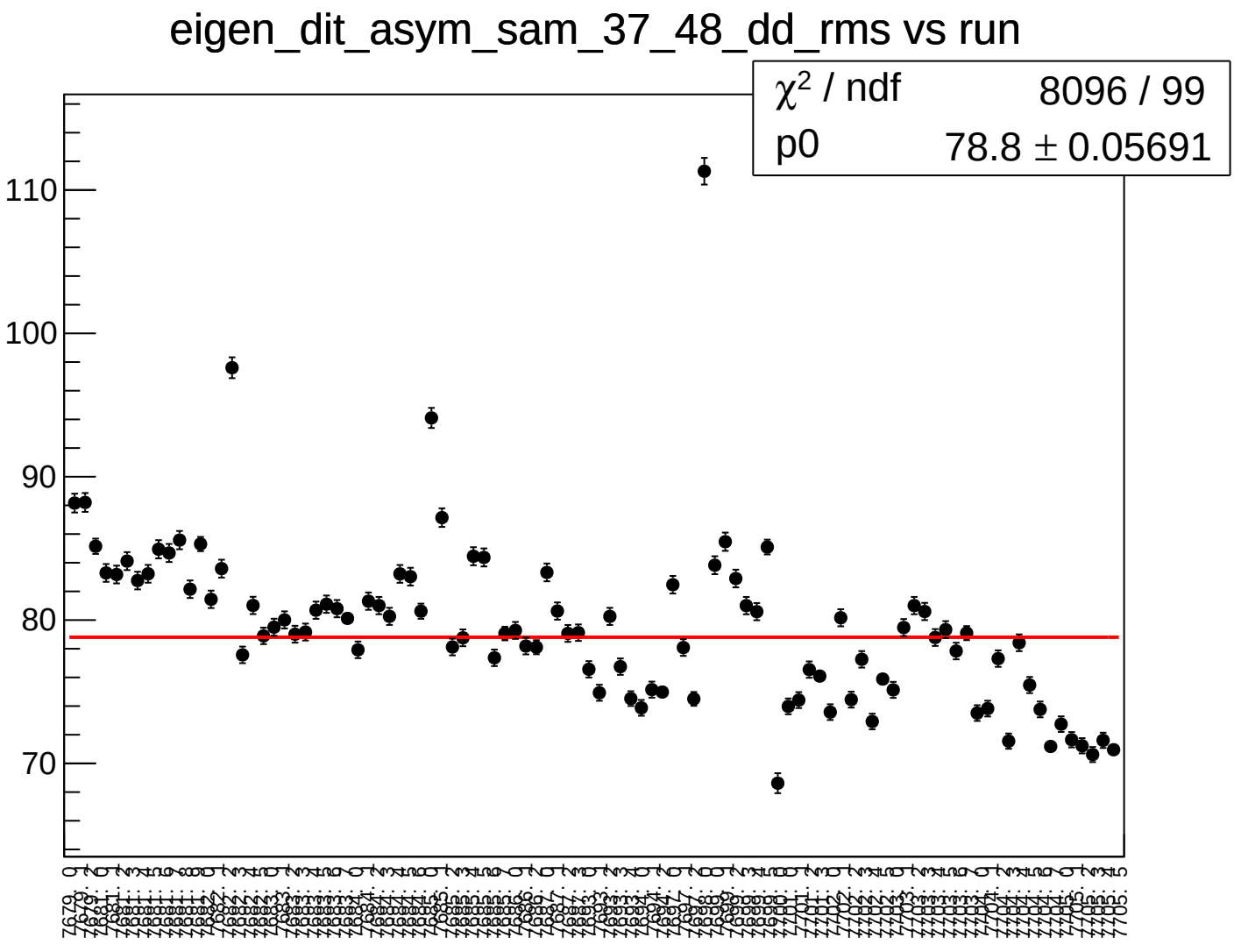

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 96.75 / 99
p0 45.52 ± 80.49
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 100
Mean 452.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.005753
Std Dev 0.9836
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

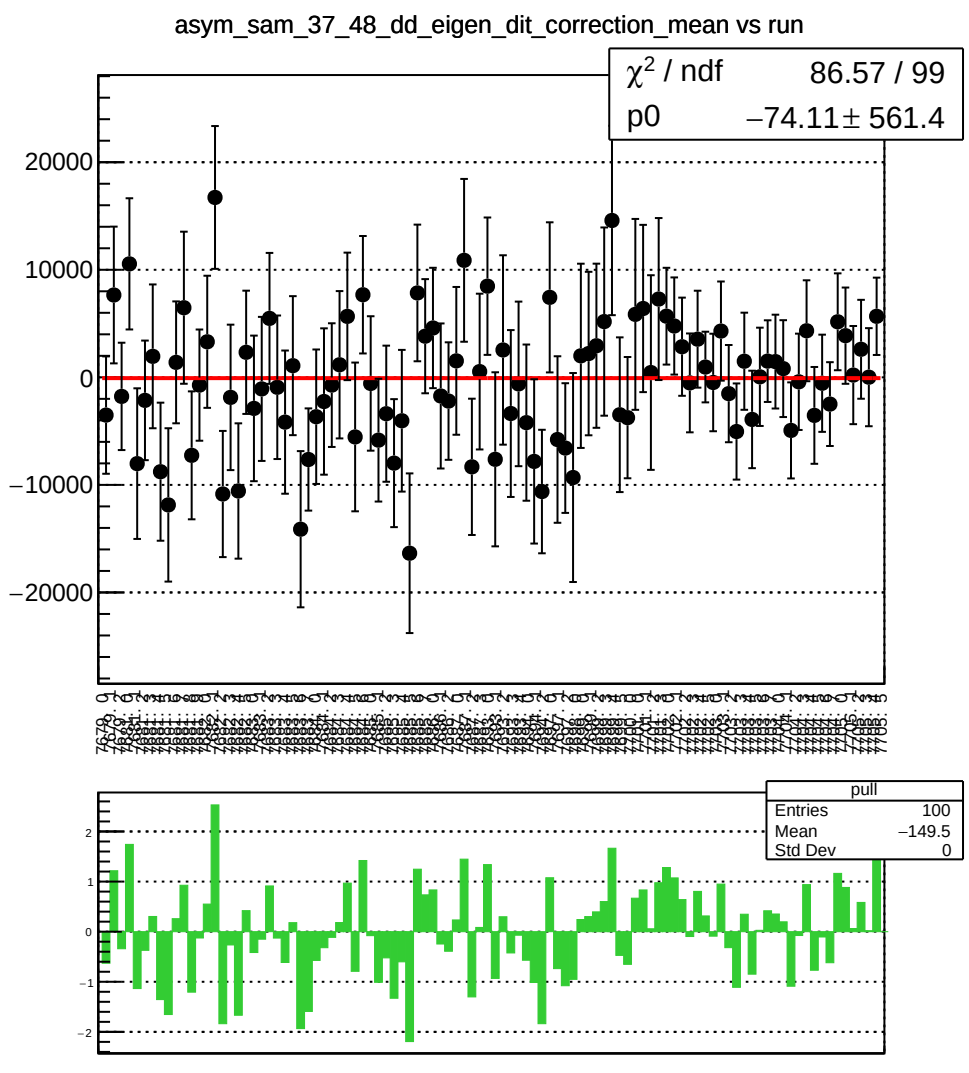

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 8096 / 99
p0 78.8 ± 0.05691
110
100
90
80
70

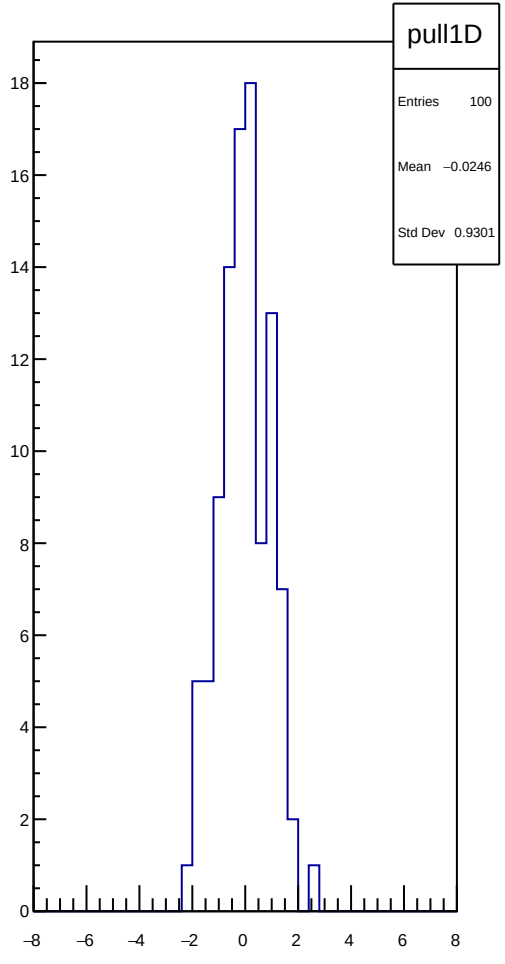

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 86.57 / 99
p0 −74.12 ± 561.4
20000
10000
0
−10000
−20000
pull
Entries 100
Mean −149.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.0246
Std Dev 0.9301
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

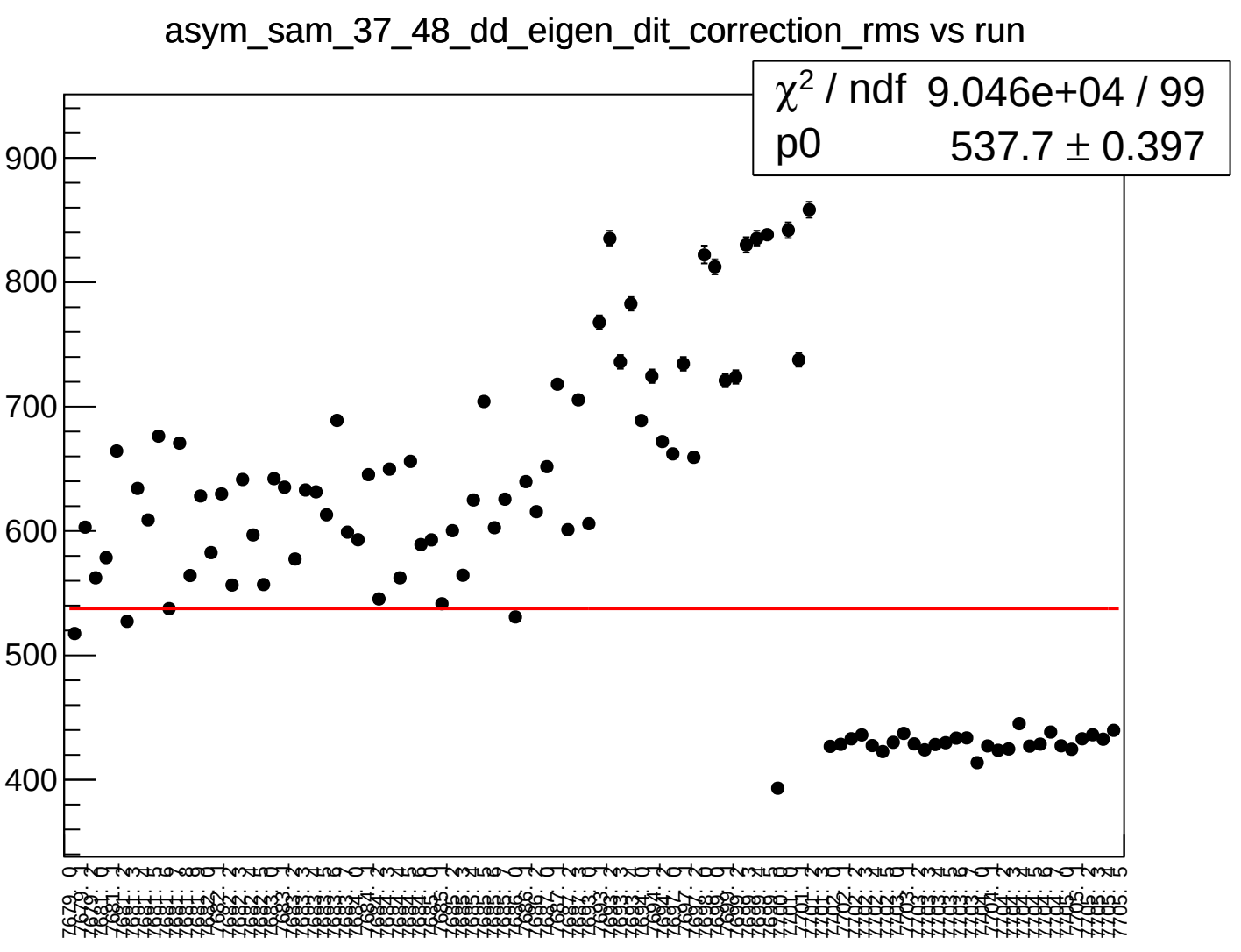

asym_sam_37_48_dd_dit_correction_rms vs run
χ^2 / ndf 9.045e+04 / 99
p0 537.8 ± 0.397
900
800
700
600
500
400

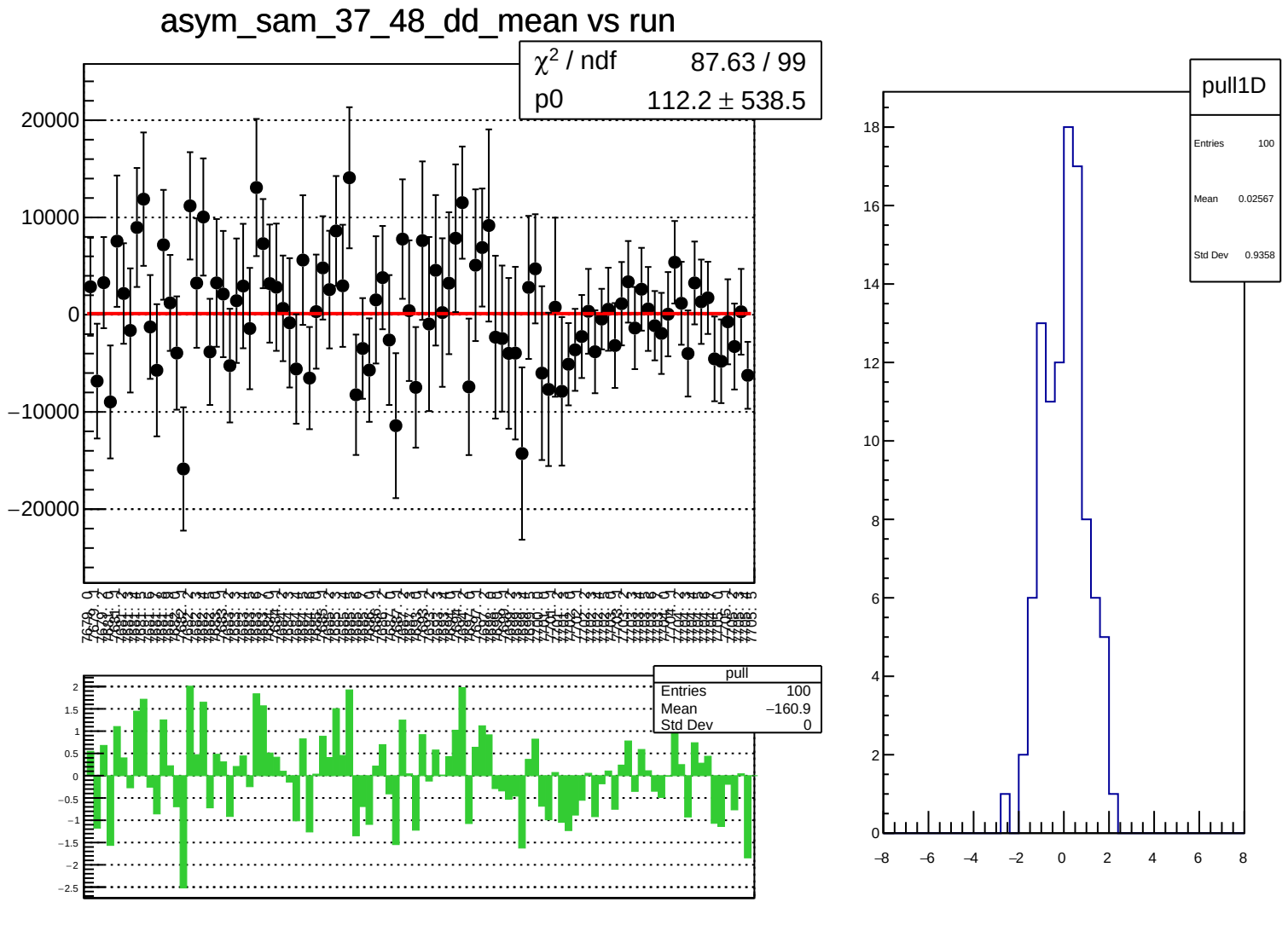

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 96.75 / 99
p0 45.52 ± 80.49
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 100
Mean 452.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.005753
Std Dev 0.9836
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

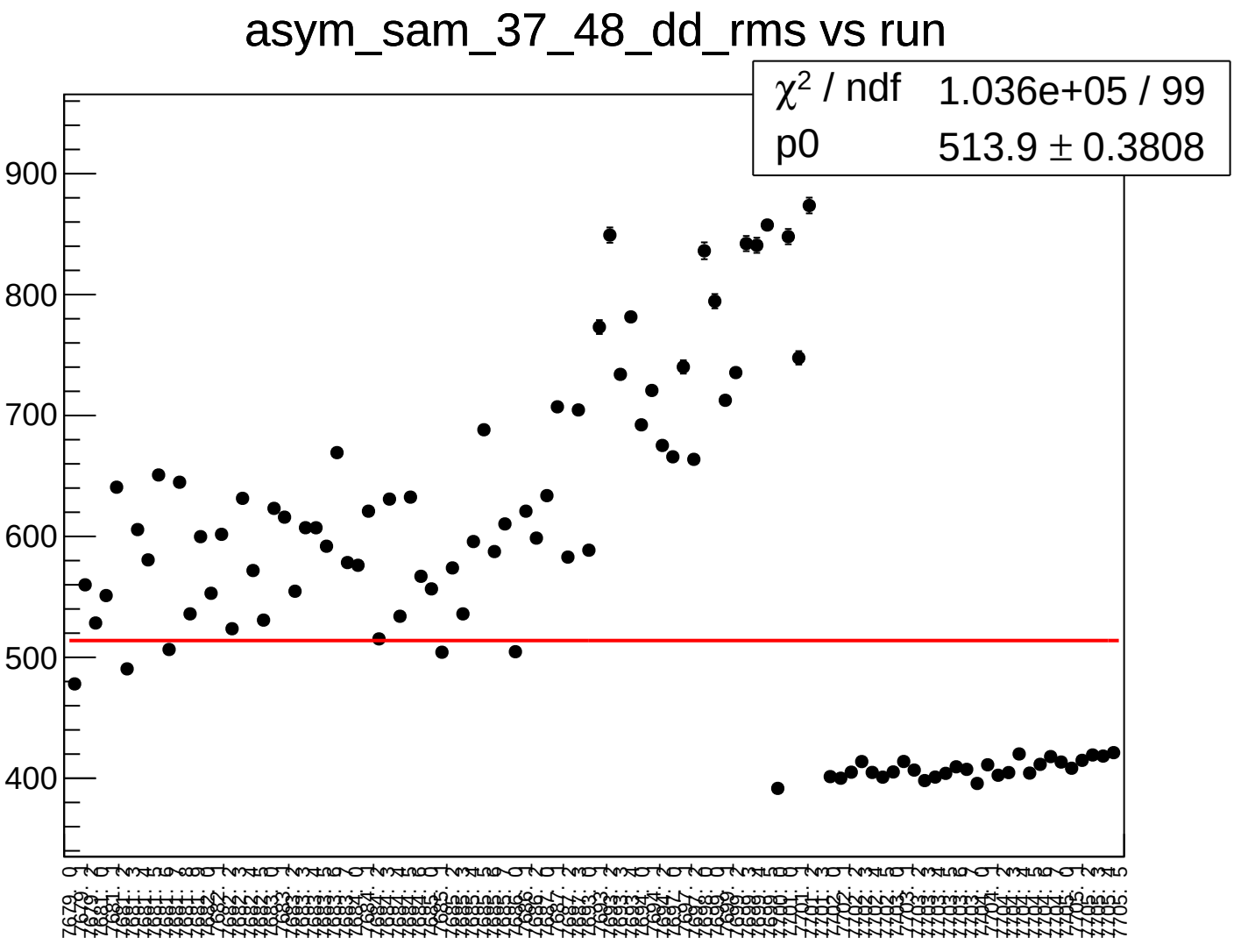

eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 8096 / 99
p0 78.8 ± 0.05691
110
100
90
80
70

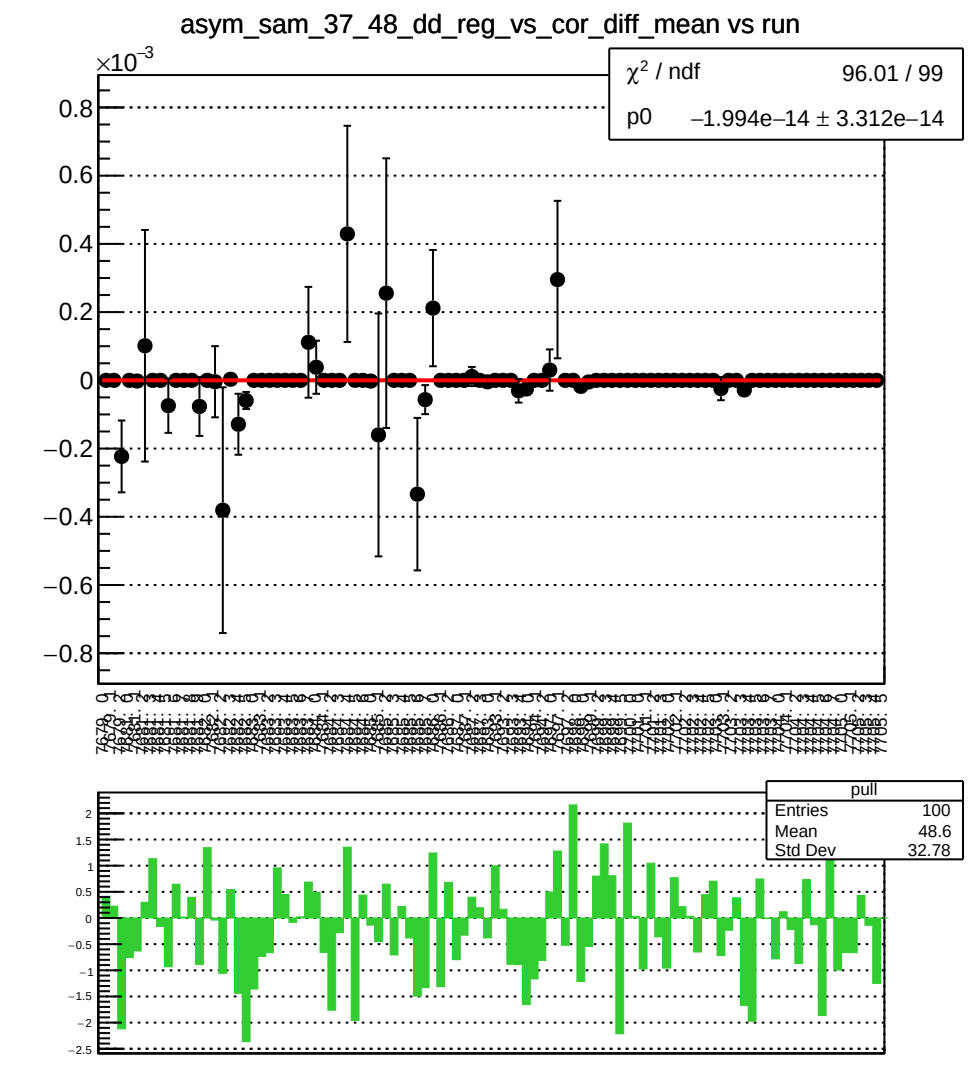

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 86.57 / 99
p0 −74.11 ± 561.4
20000
10000
0
−10000
−20000
pull
Entries 100
Mean −149.5
Std Dev 0
2
1
0
−1
−2

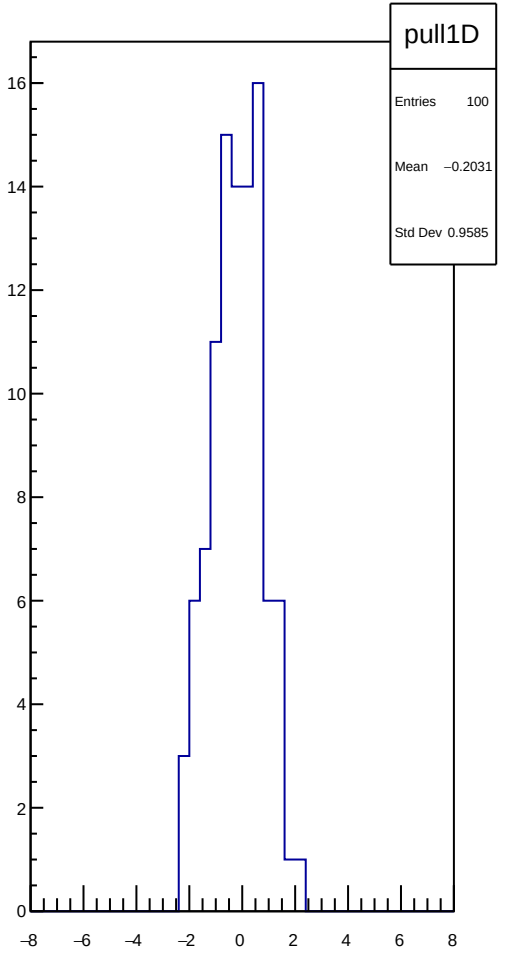

pull1D
Entries 100
Mean −0.0246
Std Dev 0.9301
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

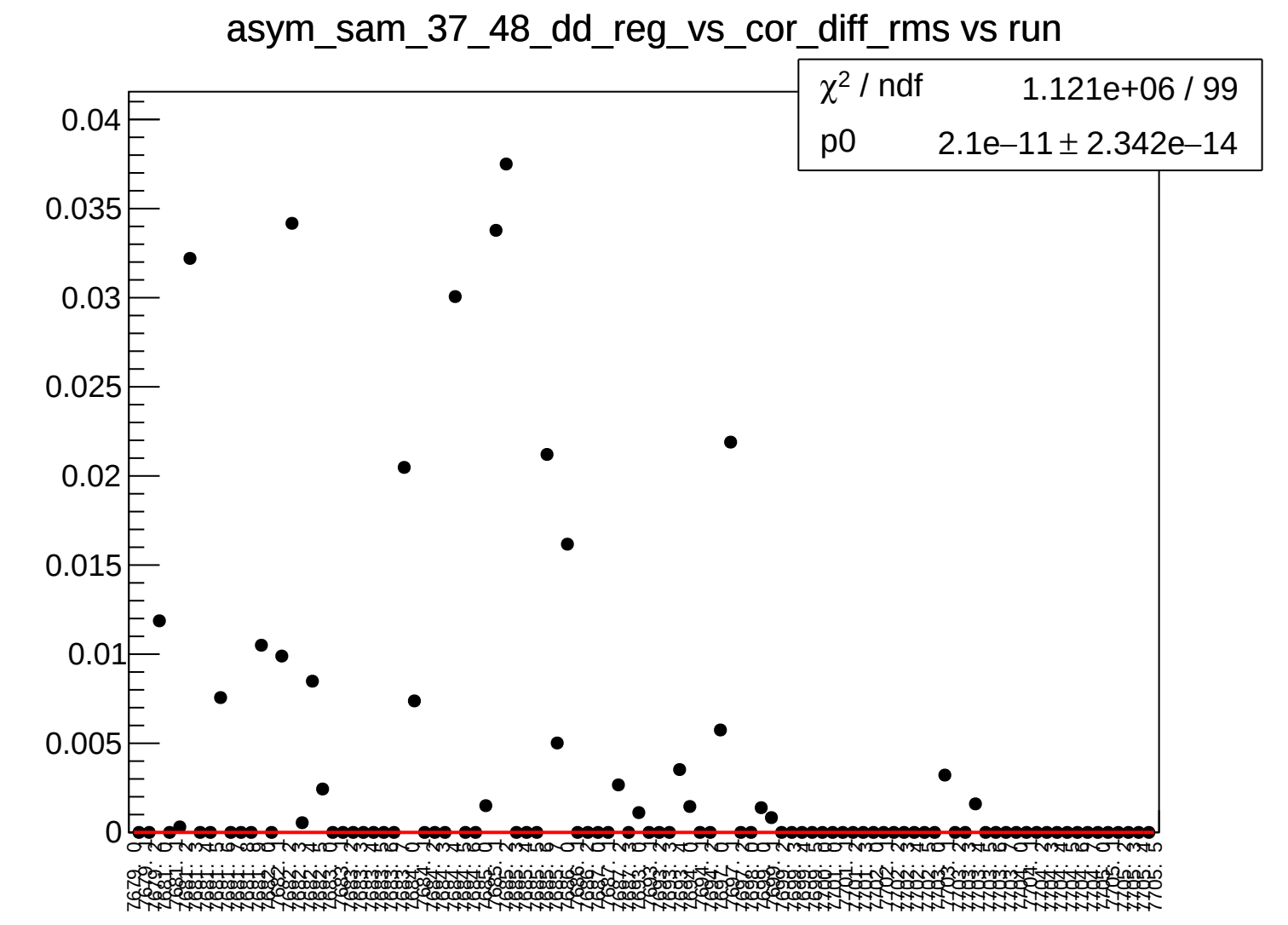

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 9.046e+04 / 99
p0 537.7 ± 0.397
900
800
700
600
500
400

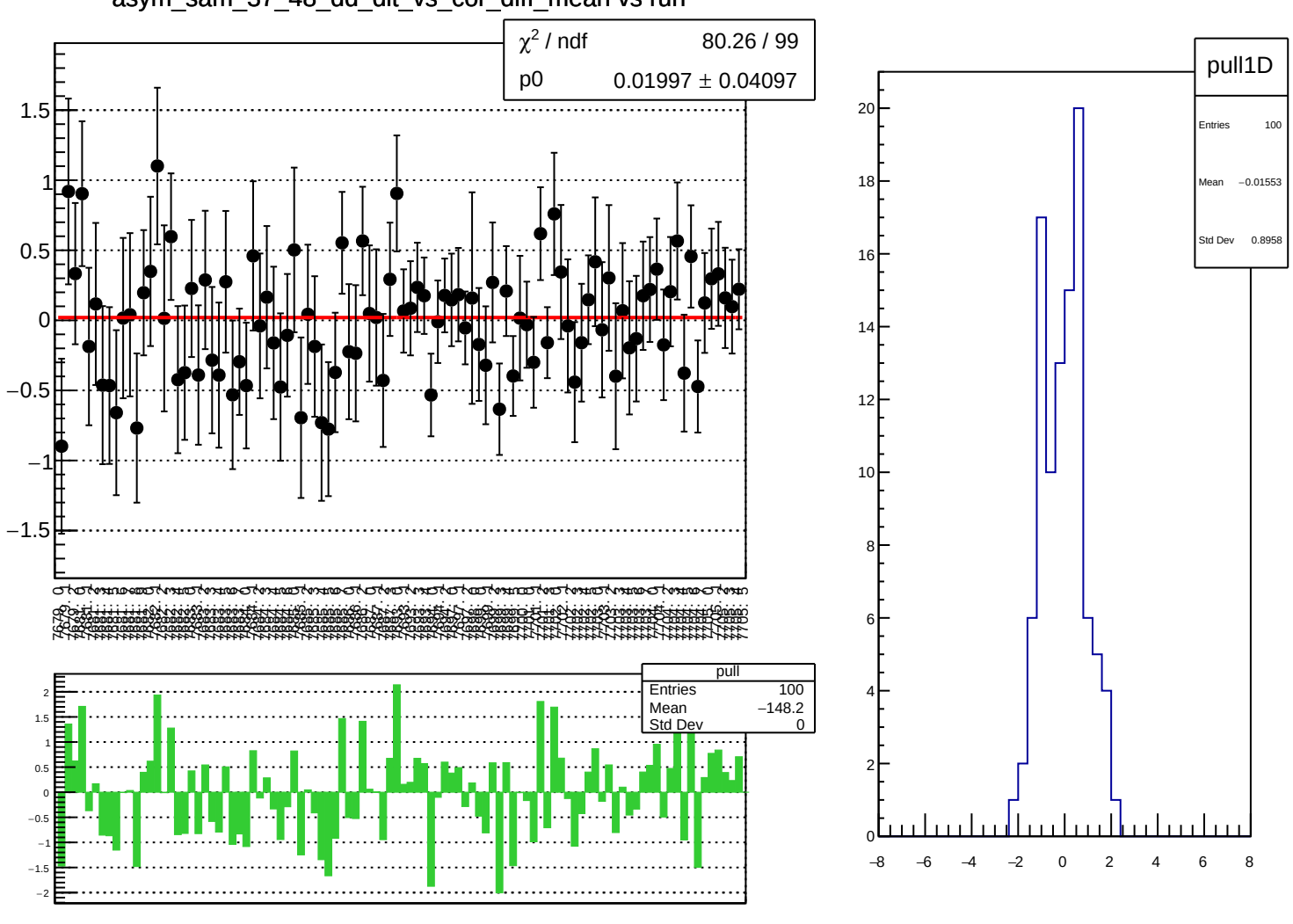

asym_sam_37_48_dd_mean vs run
χ² / ndf 87.63 / 99
p0 112.2 ± 538.5
20000
10000
0
−10000
−20000
pull
Entries 100
Mean −160.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 100
Mean 0.02567
Std Dev 0.9358
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

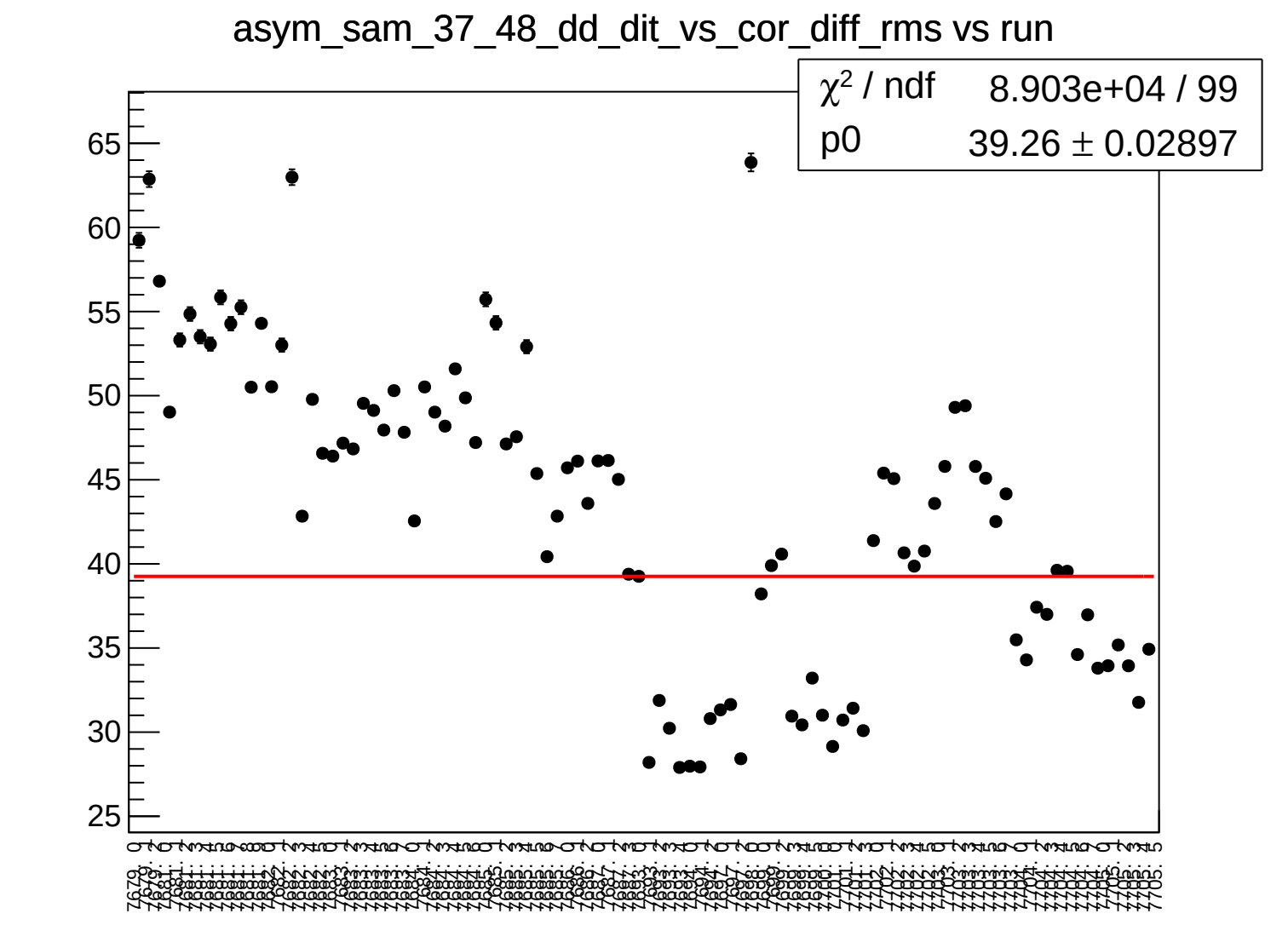

asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1.036e+05 / 99
p0 513.9 ± 0.3808
900
800
700
600
500
400

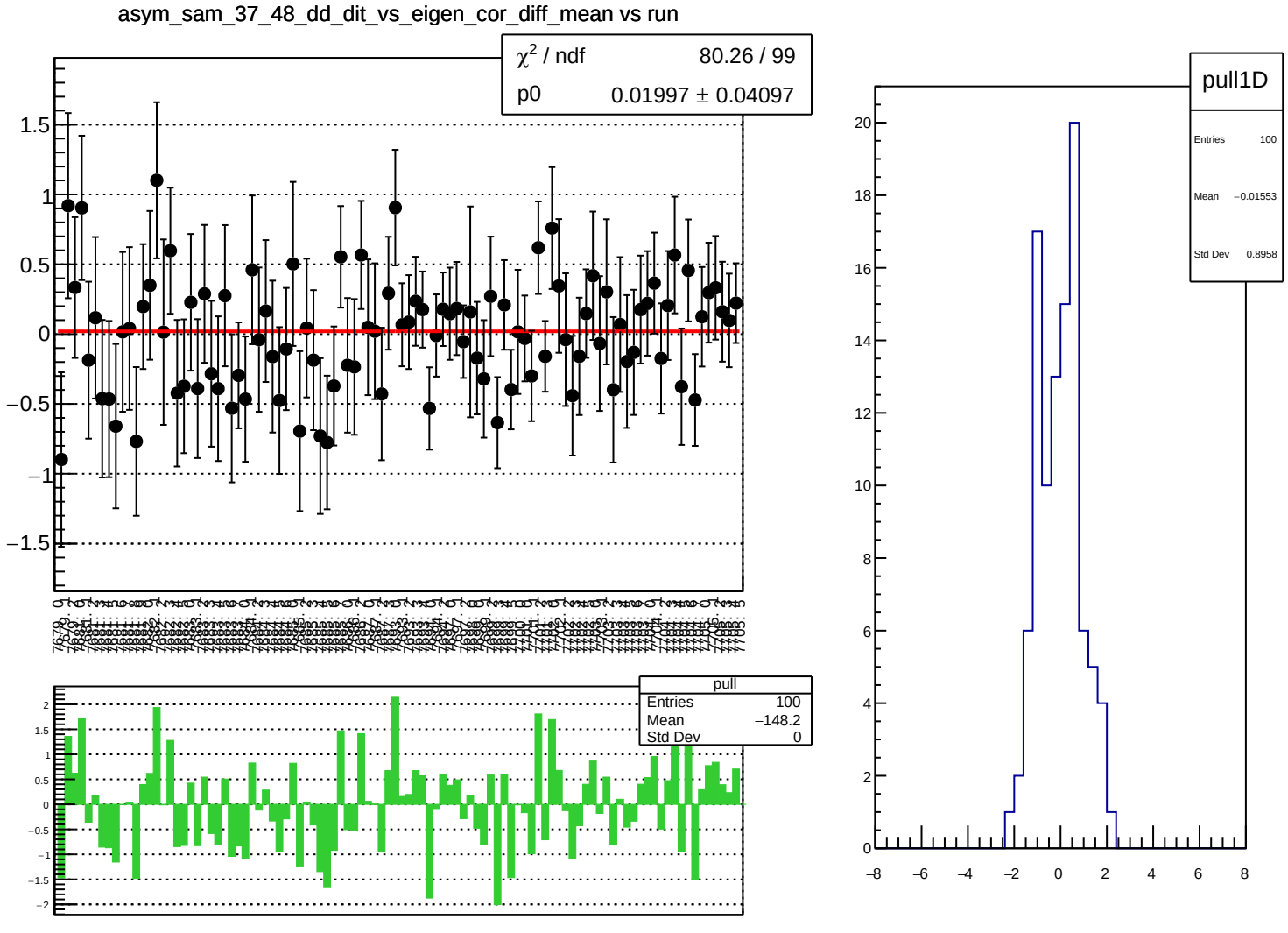

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 96.01 / 99
p0 −1.994e−14 ± 3.312e−14
pull
Entries 100
Mean 48.6
Std Dev 32.78

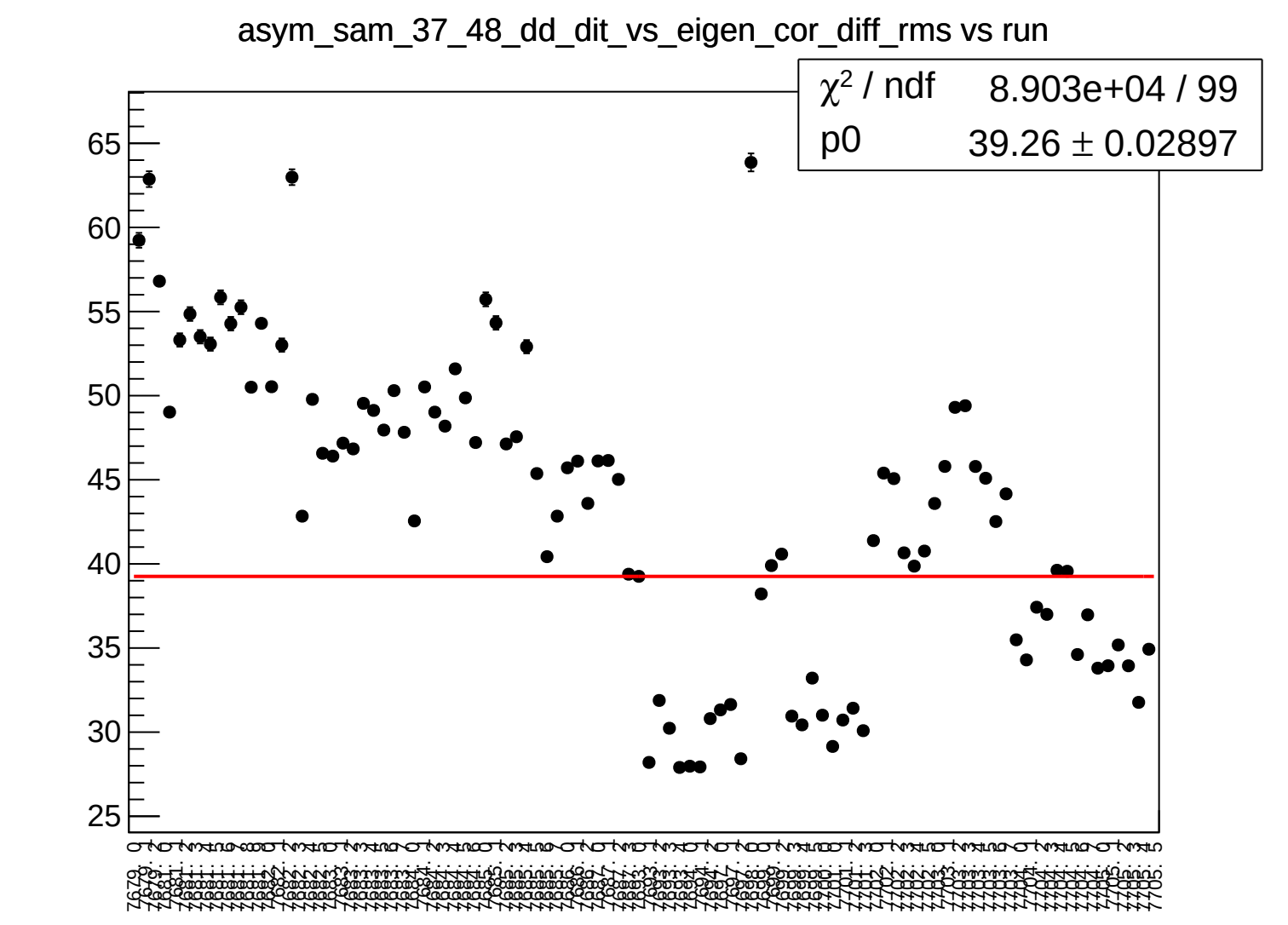

pull1D
Entries 100
Mean −0.2031
Std Dev 0.9585

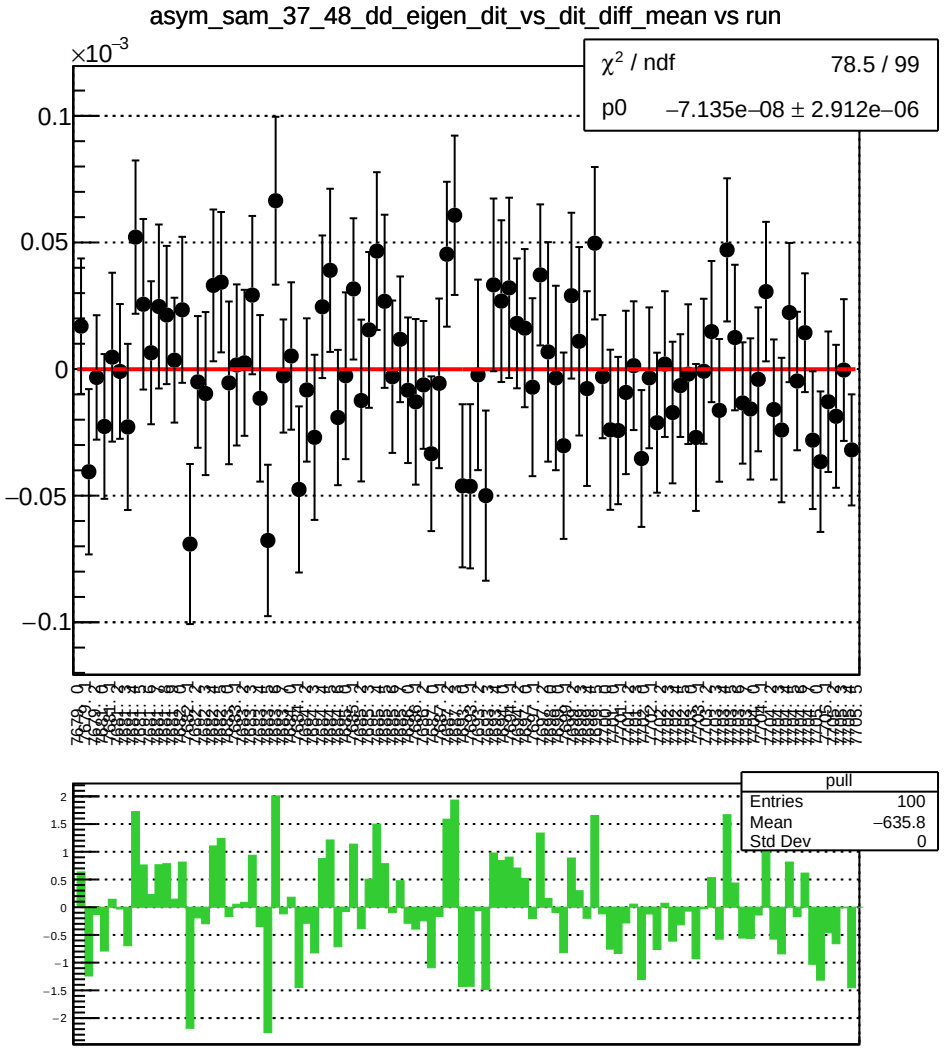

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.121e+06 / 99
p0 2.1e−11 ± 2.342e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

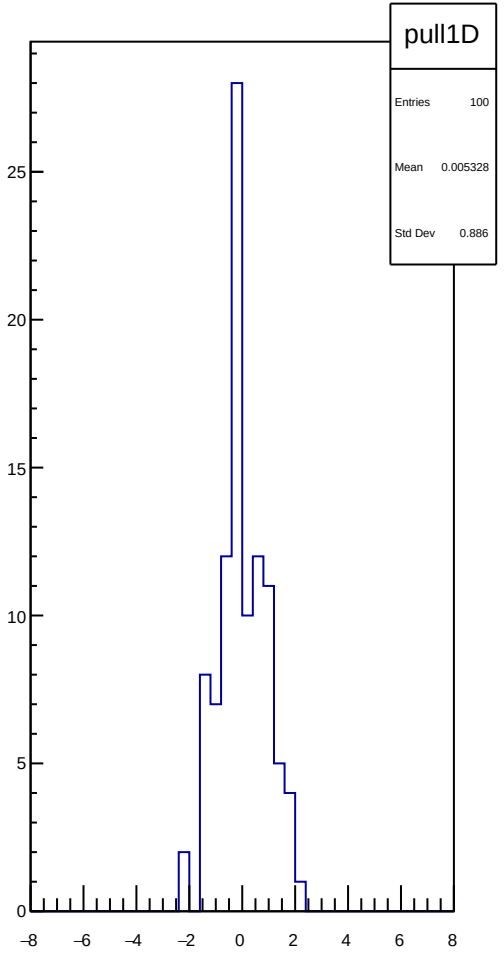

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 80.26 / 99
p0 0.01997 ± 0.04097
pull
Entries 100
Mean −148.2
Std Dev 0
pull1D
Entries 100
Mean −0.01553
Std Dev 0.8958

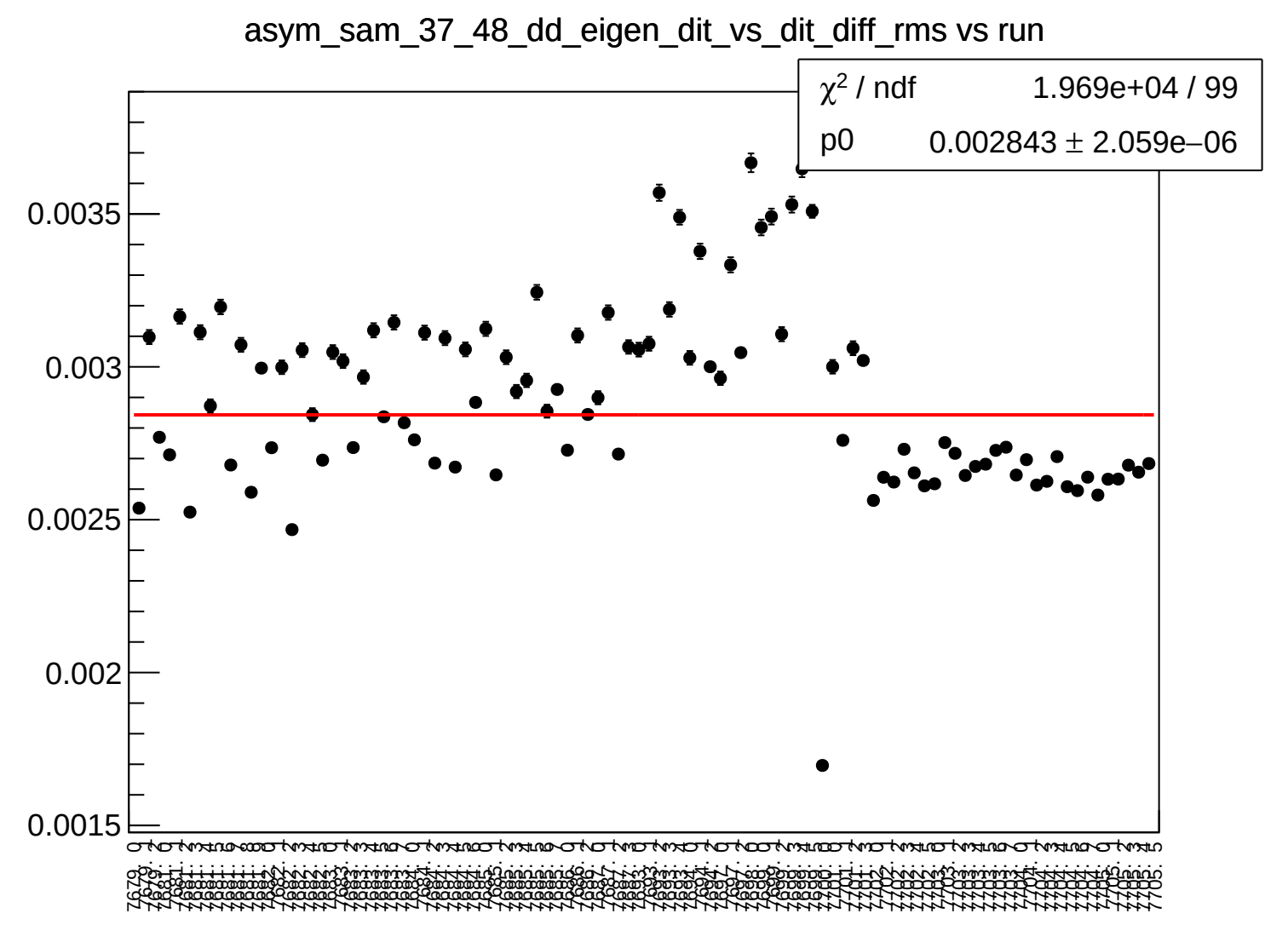

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.903e+04 / 99
p0 39.26 ± 0.02897
65
60
55
50
45
40
35
30
25

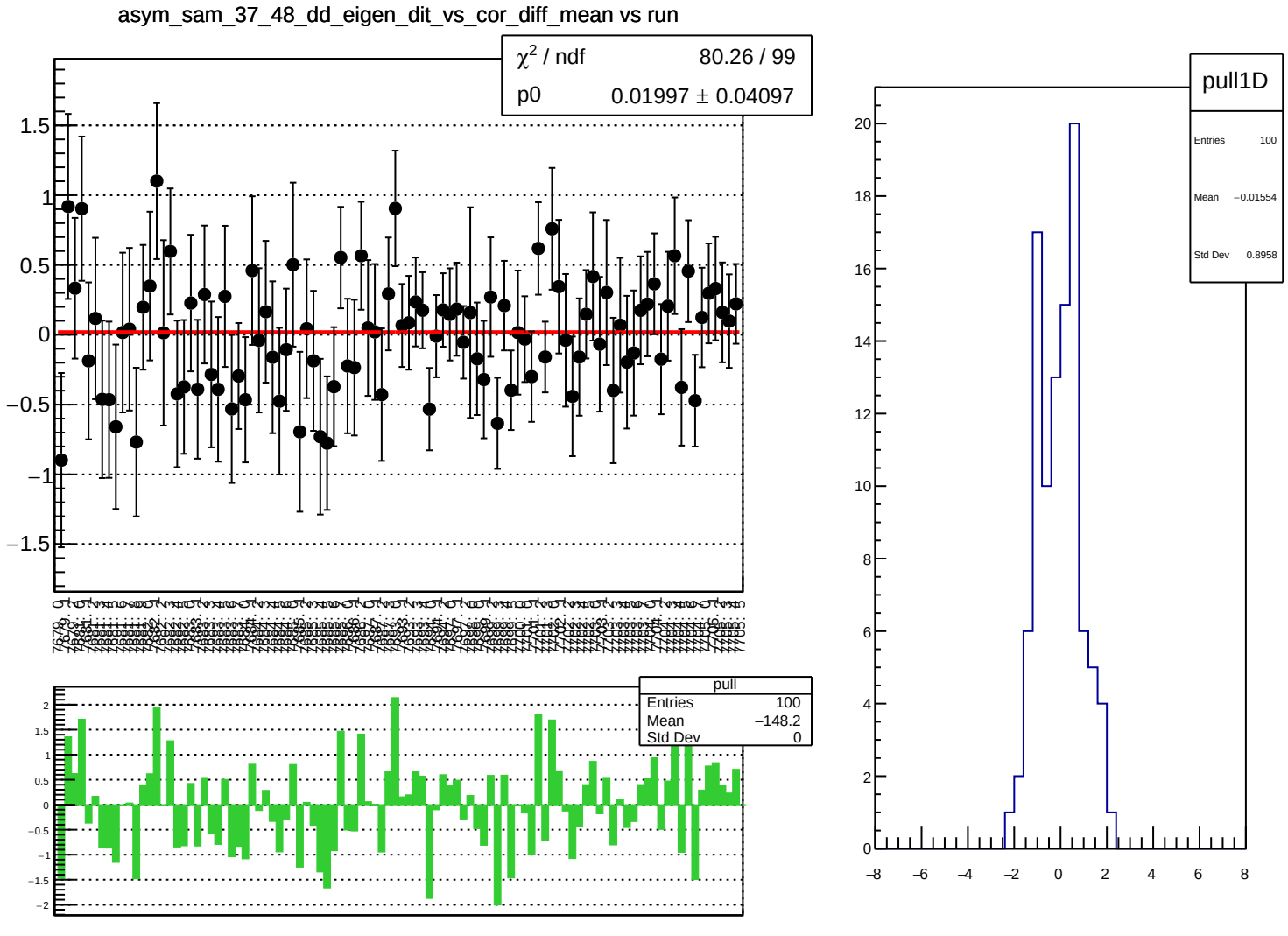

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.26 / 99
p0 0.01997 ± 0.04097
pull
Entries 100
Mean −148.2
Std Dev 0
pull1D
Entries 100
Mean −0.01553
Std Dev 0.8958

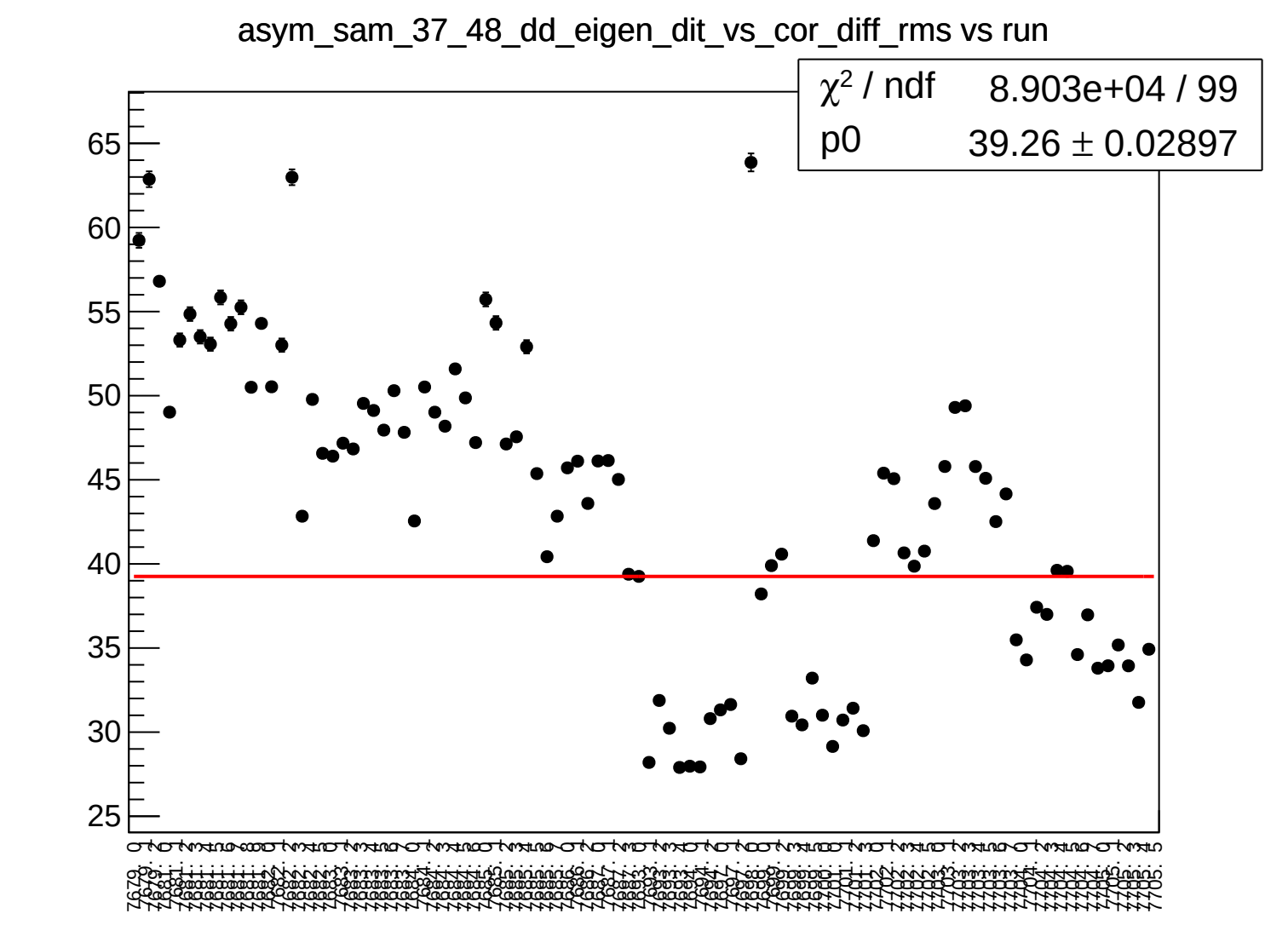

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.903e+04 / 99
p0 39.26 ± 0.02897
65
60
55
50
45
40
35
30
25

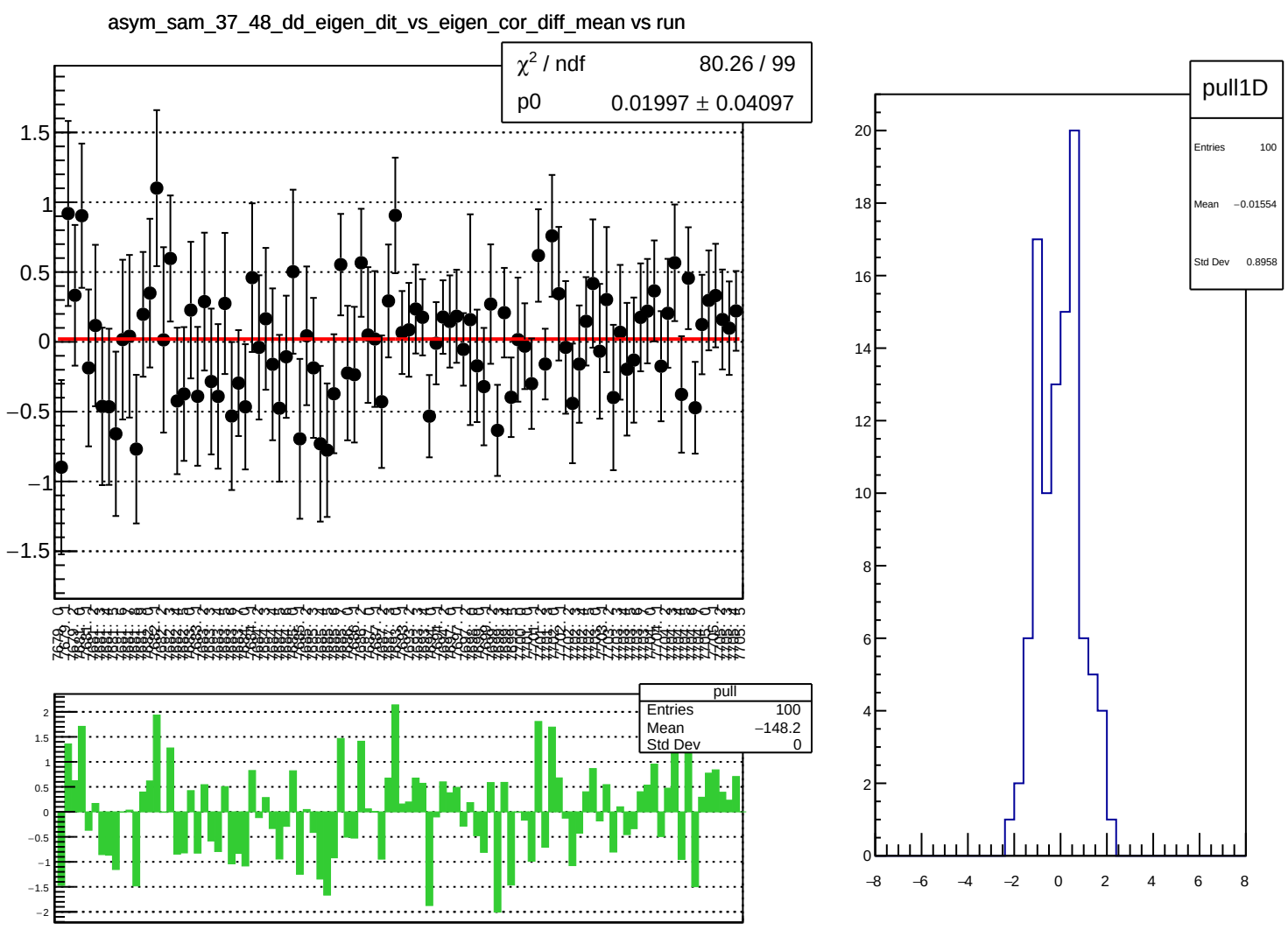

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.5 / 99
p0 −7.135e−08 ± 2.912e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 100
Mean −635.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

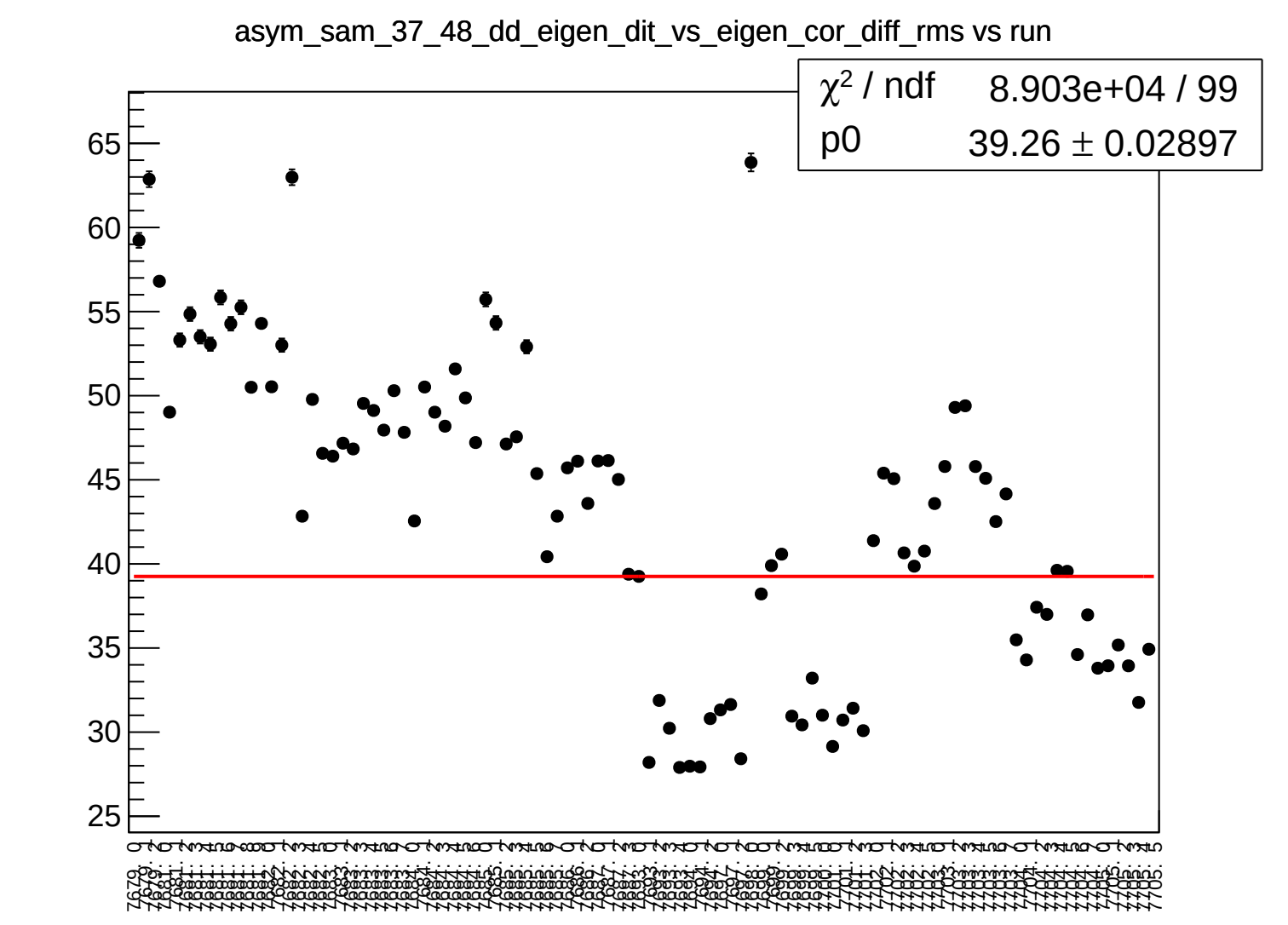

pull1D
Entries 100
Mean 0.005328
Std Dev 0.886
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

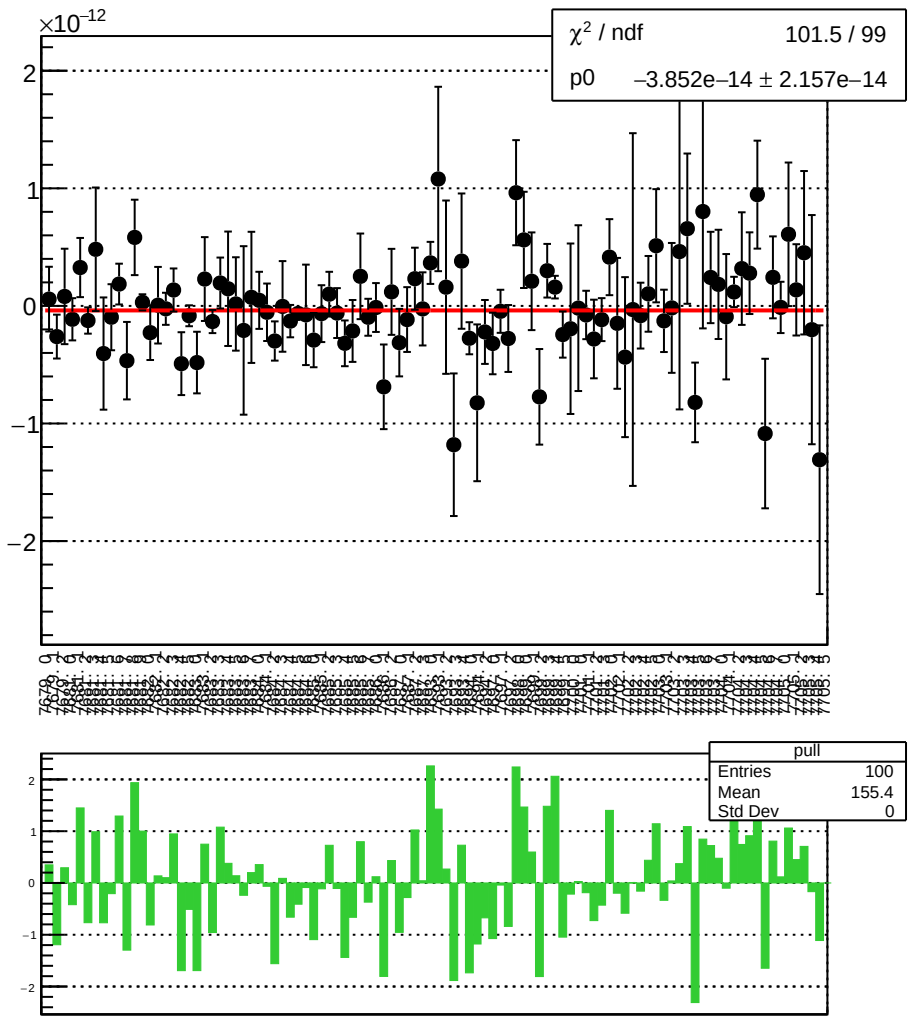

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.969e+04 / 99
p0 0.002843 ± 2.059e−06
0.0035
0.003
0.0025
0.002
0.0015

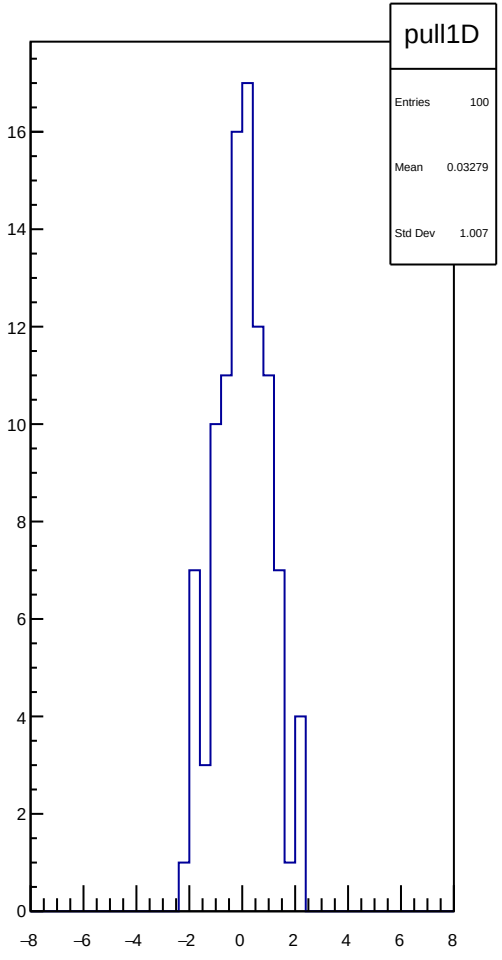

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.26 / 99
p0 0.01997 ± 0.04097
pull
Entries 100
Mean −148.2
Std Dev 0
pull1D
Entries 100
Mean −0.01554
Std Dev 0.8958

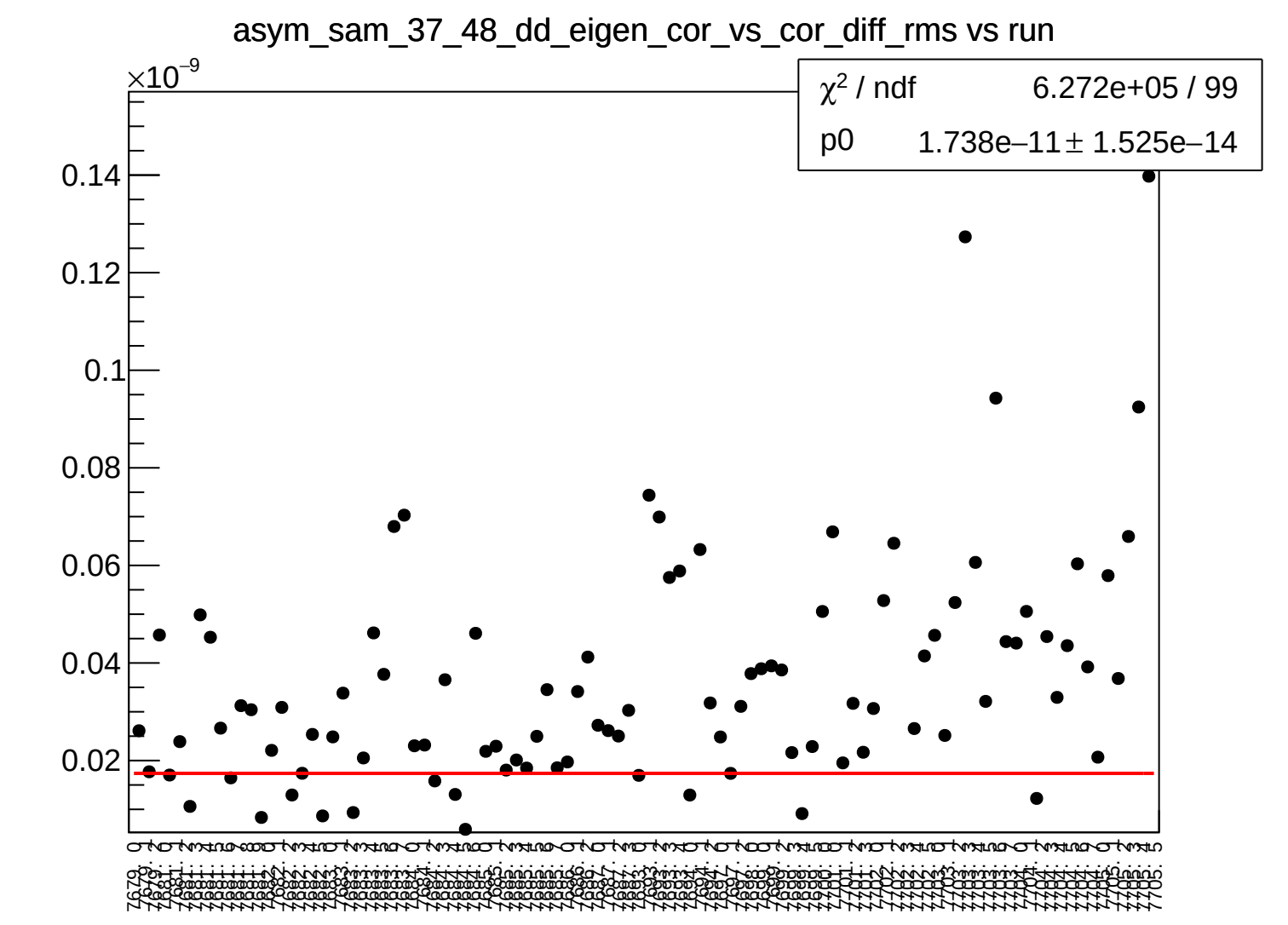

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.903e+04 / 99
p0 39.26 ± 0.02897
65
60
55
50
45
40
35
30
25

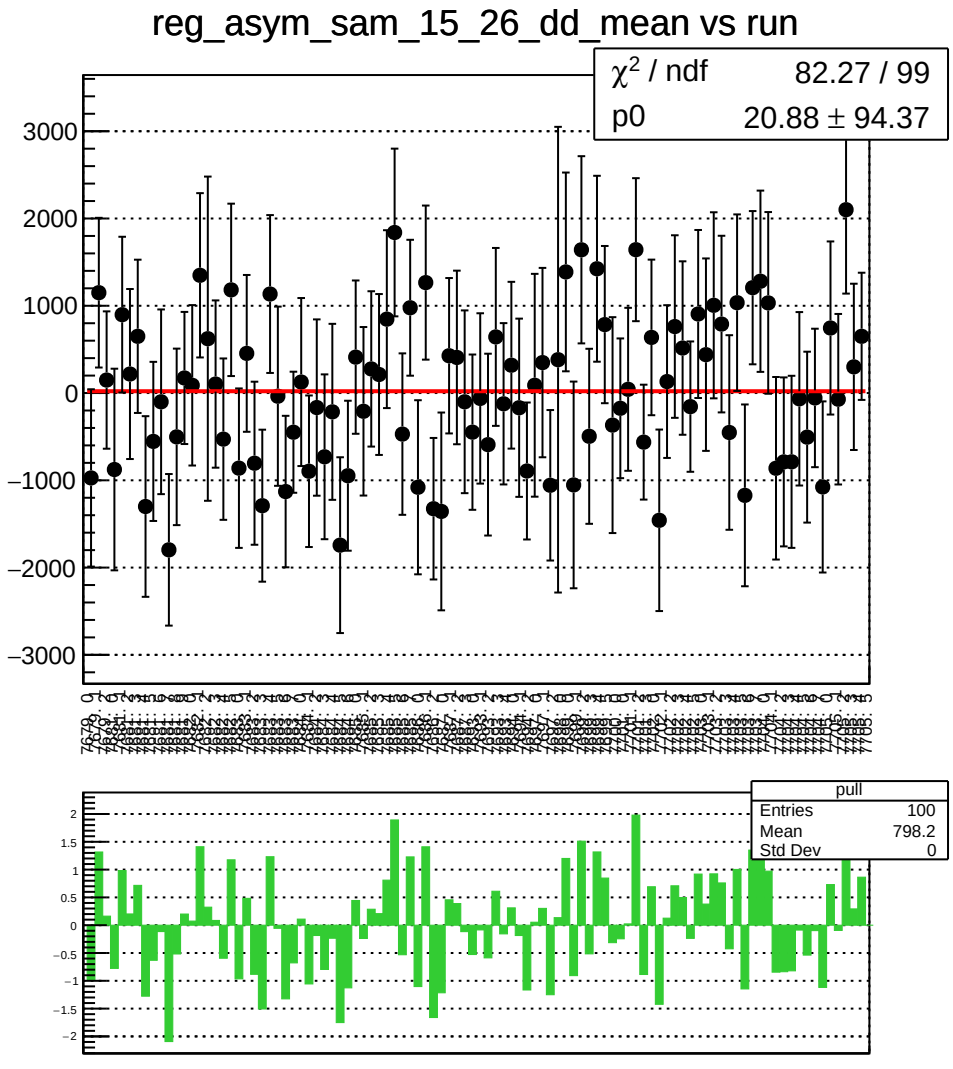

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.26 / 99
p0 0.01997 ± 0.04097
pull
Entries 100
Mean −148.2
Std Dev 0
pull1D
Entries 100
Mean −0.01554
Std Dev 0.8958

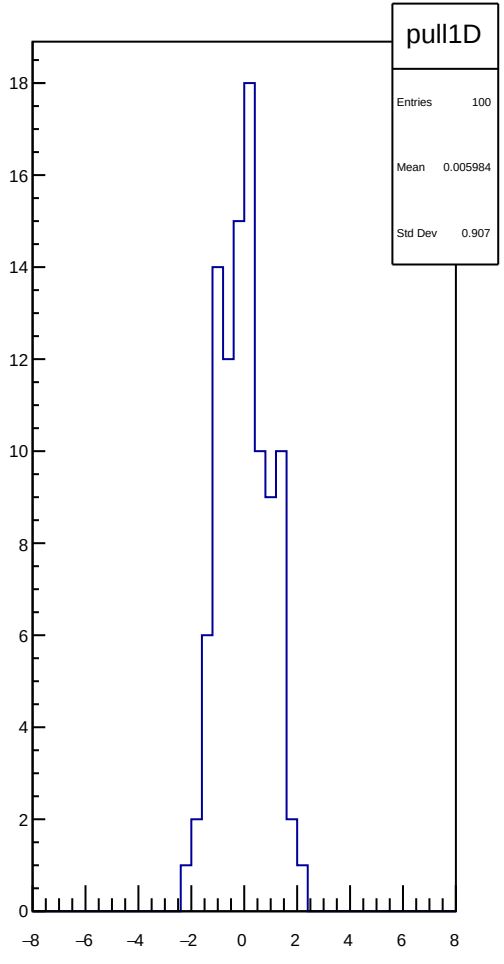

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.903e+04 / 99
p0 39.26 ± 0.02897
65
60
55
50
45
40
35
30
25

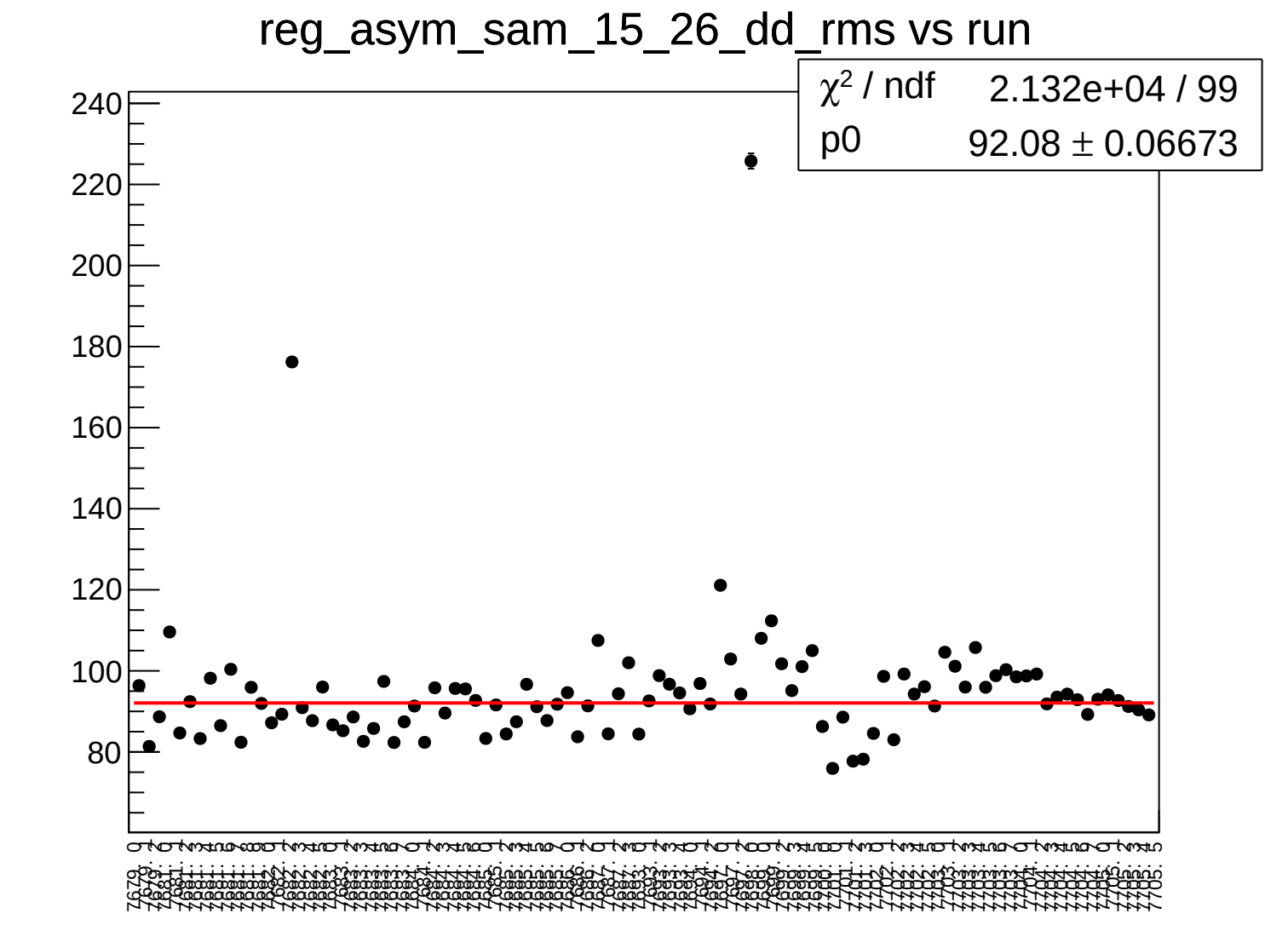

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.5 / 99
p0 −3.852e−14 ± 2.157e−14
pull
Entries 100
Mean 155.4
Std Dev 0

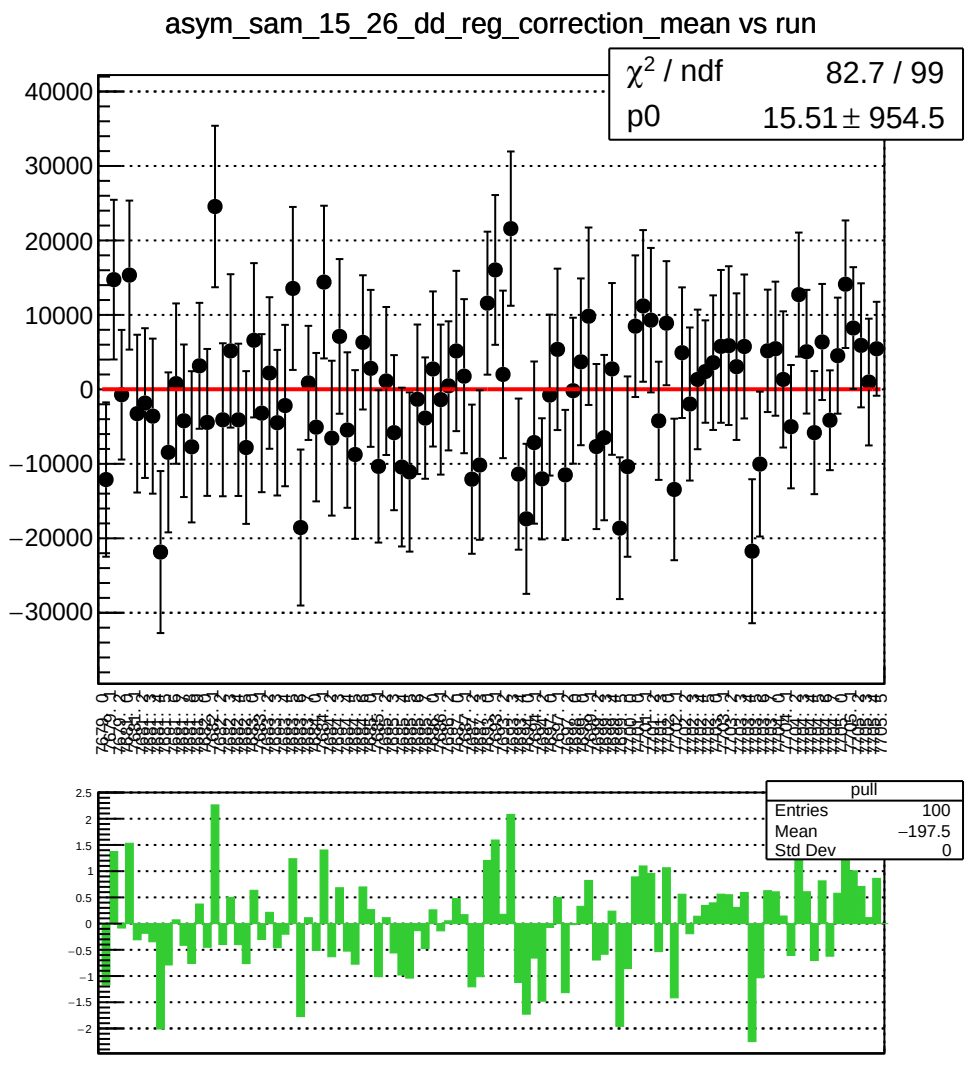

pull1D
Entries 100
Mean 0.03279
Std Dev 1.007

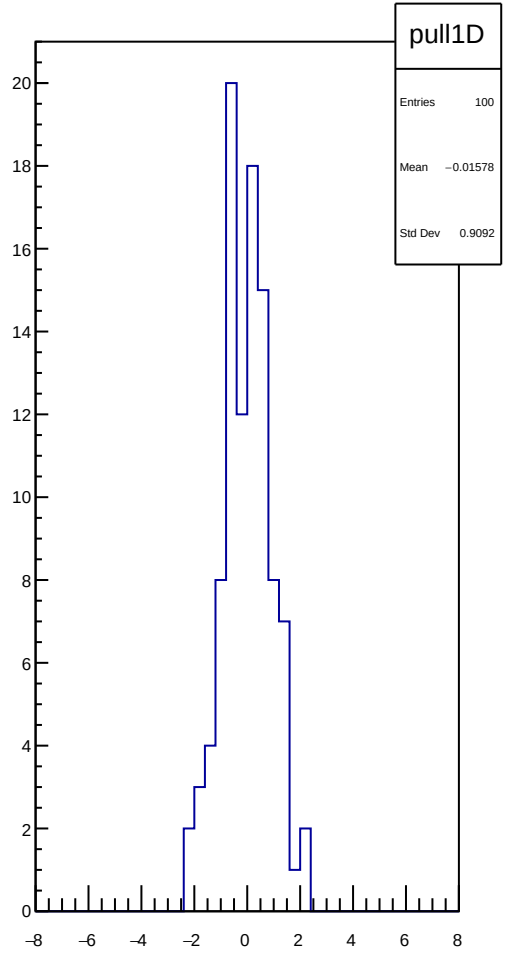

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.272e+05 / 99
p0 1.738e−11 ± 1.525e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

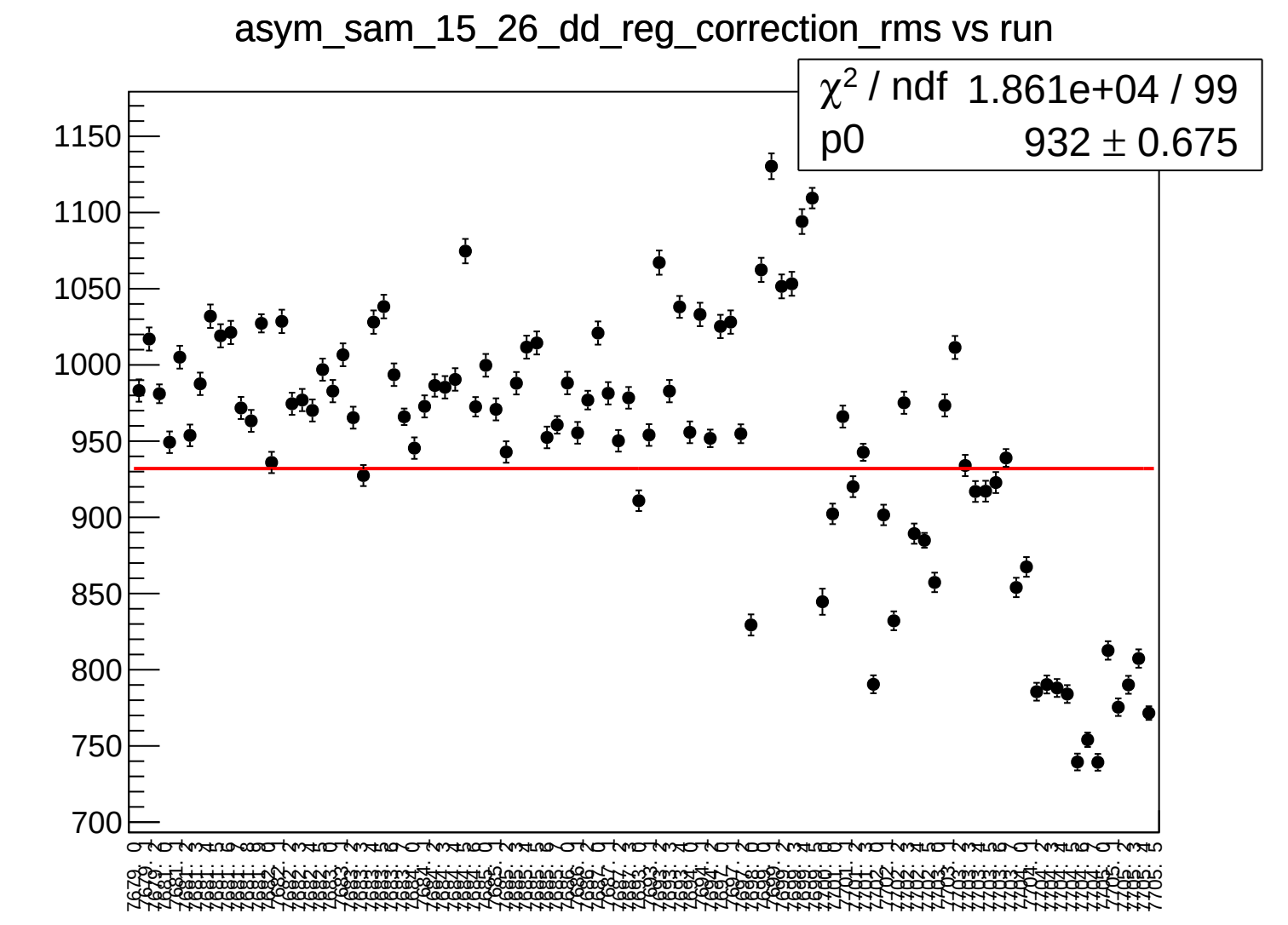

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 82.27 / 99
p0 20.88 ± 94.37
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 100
Mean 798.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

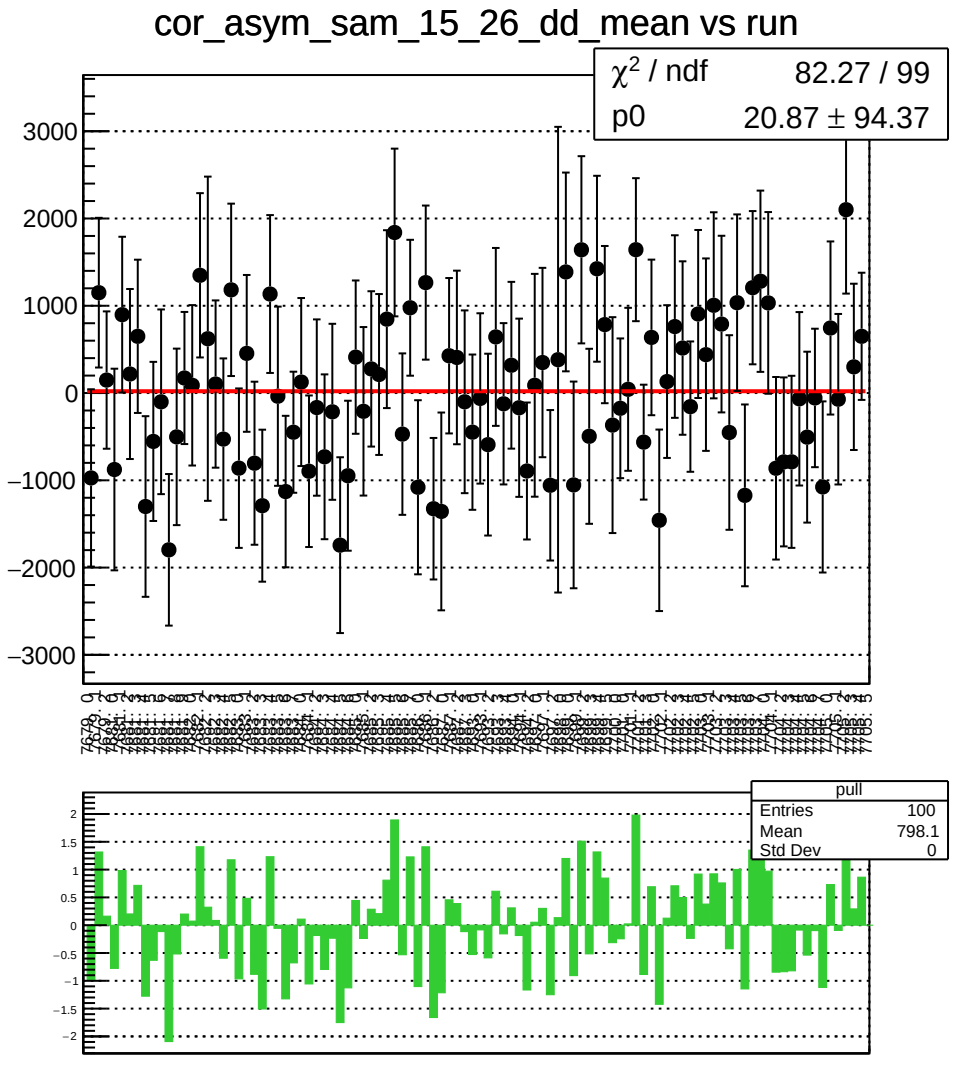

pull1D
Entries 100
Mean 0.005984
Std Dev 0.907
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

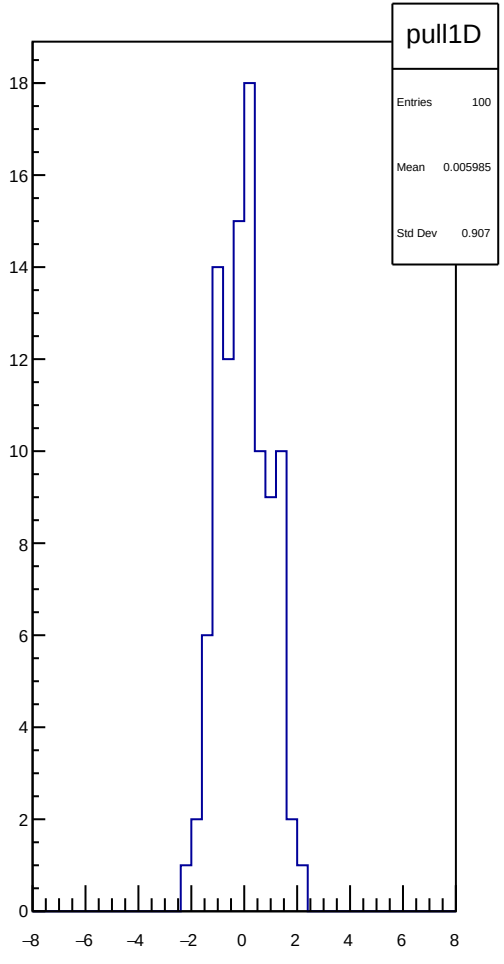

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.132e+04 / 99
p0 92.08 ± 0.06673
240
220
200
180
160
140
120
100
80

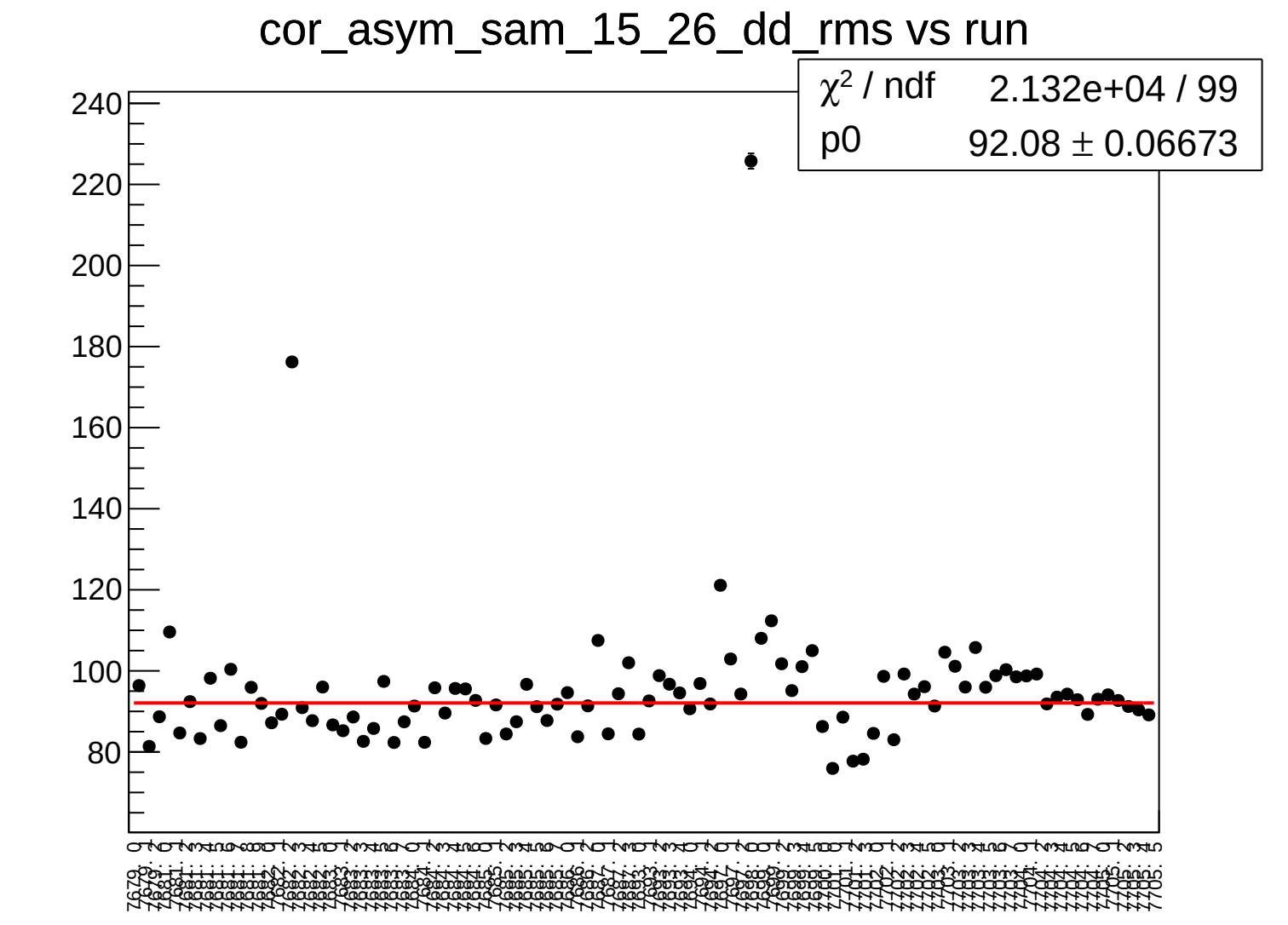

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 82.7 / 99
p0 15.51 ± 954.5
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 100
Mean −197.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

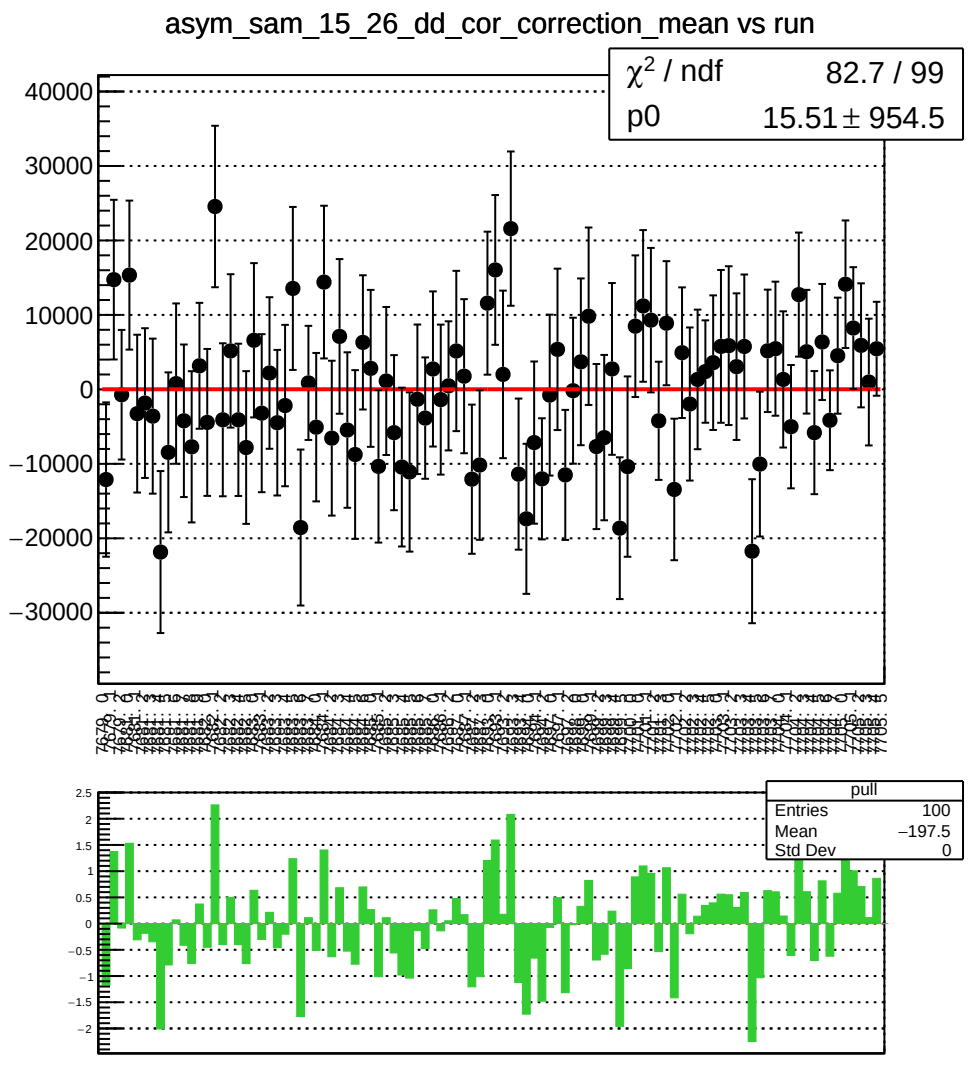

pull1D
Entries 100
Mean −0.01578
Std Dev 0.9092
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

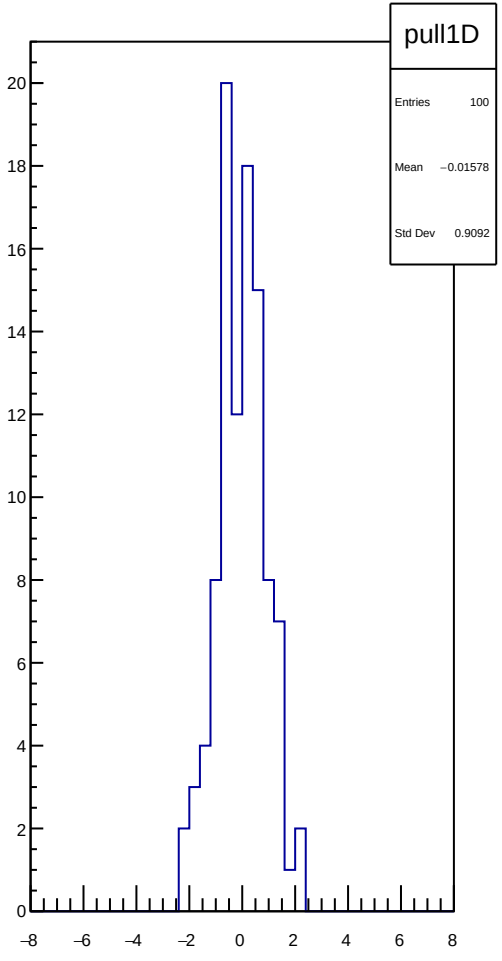

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 1.861e+04 / 99
p0 932 ± 0.675
1150
1100
1050
1000
950
900
850
800
750
700

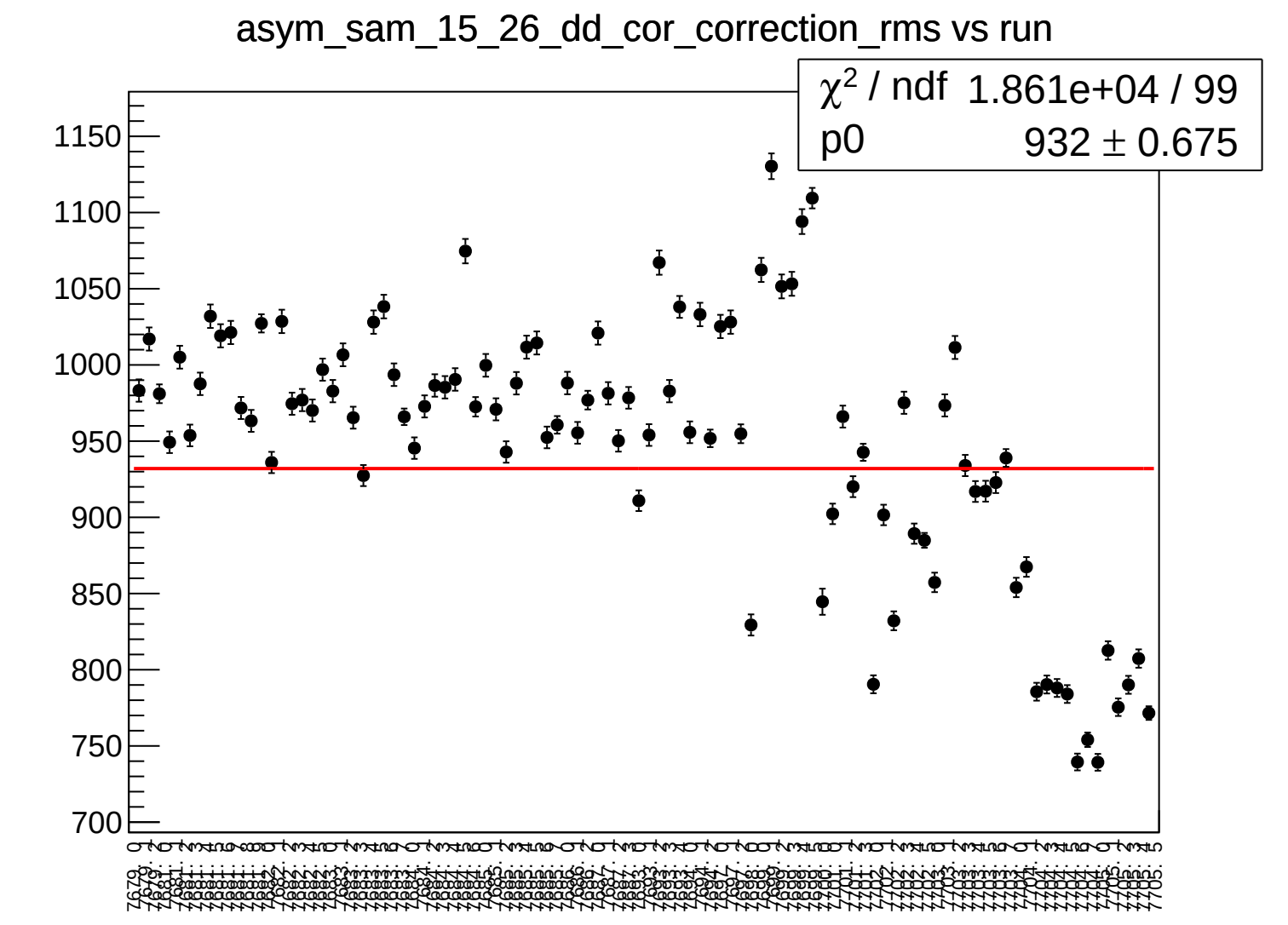

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 82.27 / 99
p0 20.87 ± 94.37
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 100
Mean 798.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

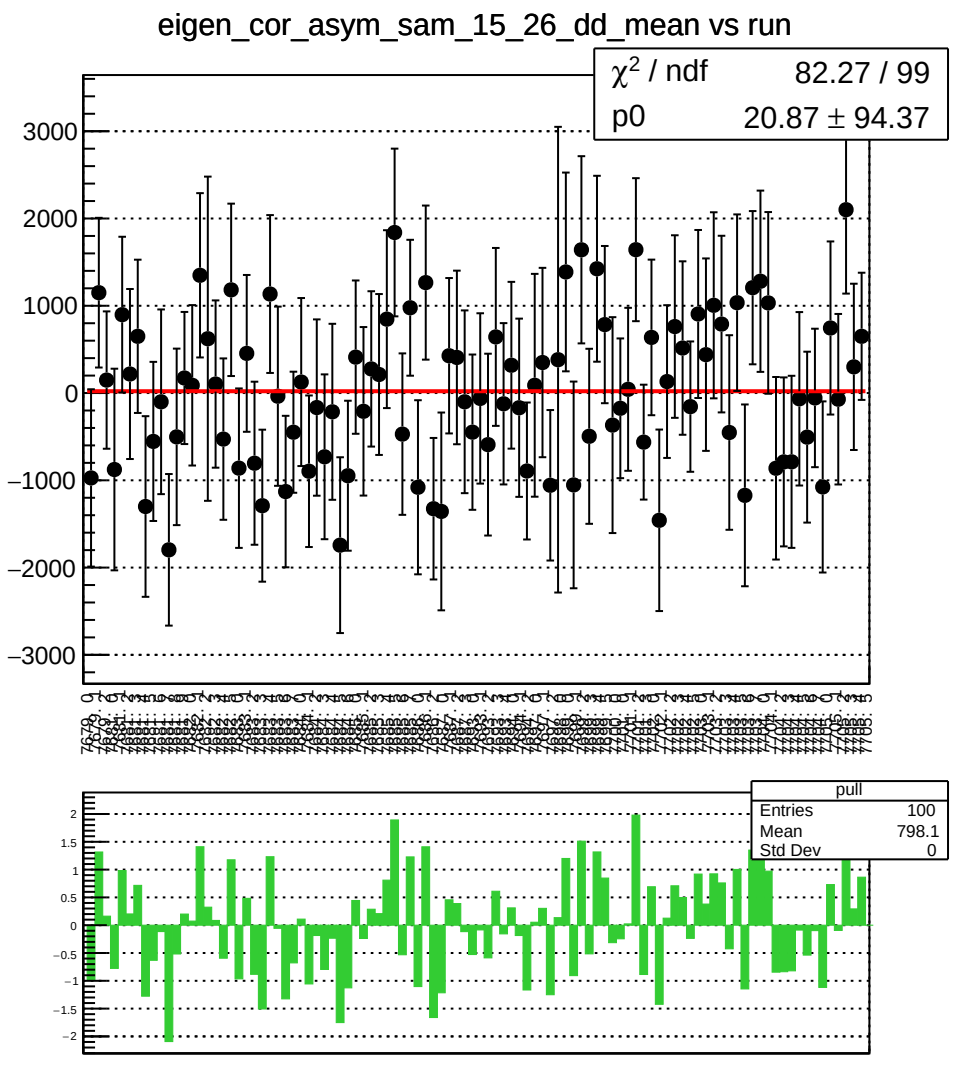

pull1D
Entries 100
Mean 0.005985
Std Dev 0.907
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

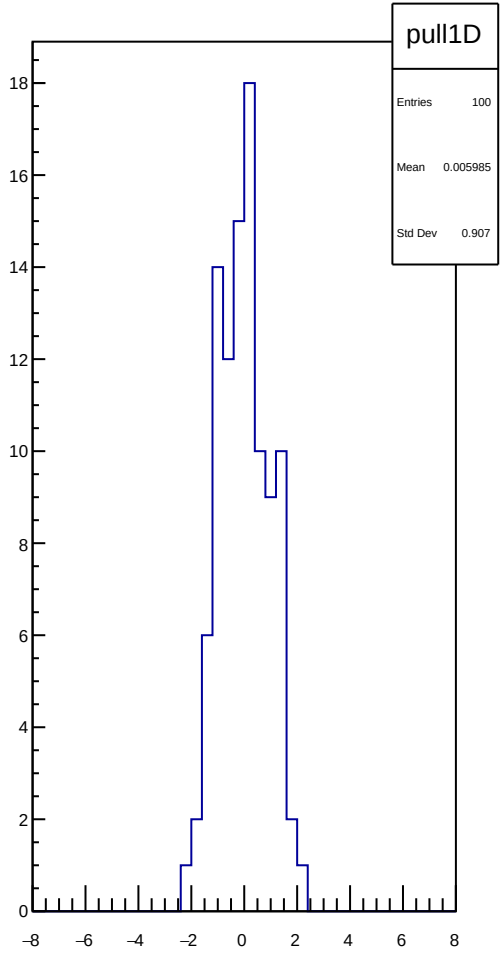

cor_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 2.132e+04 / 99
p0 92.08 ± 0.06673
240
220
200
180
160
140
120
100
80


asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 82.7 / 99
p0 15.51 ± 954.5
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 100
Mean −197.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 100
Mean −0.01578
Std Dev 0.9092
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 1.861e+04 / 99
p0 932 ± 0.675
1150
1100
1050
1000
950
900
850
800
750
700


eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 82.27 / 99
p0 20.87 ± 94.37
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 100
Mean 798.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 100
Mean 0.005985
Std Dev 0.907
18
16
14
12
10
8
6
4
2
0
−8
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−4
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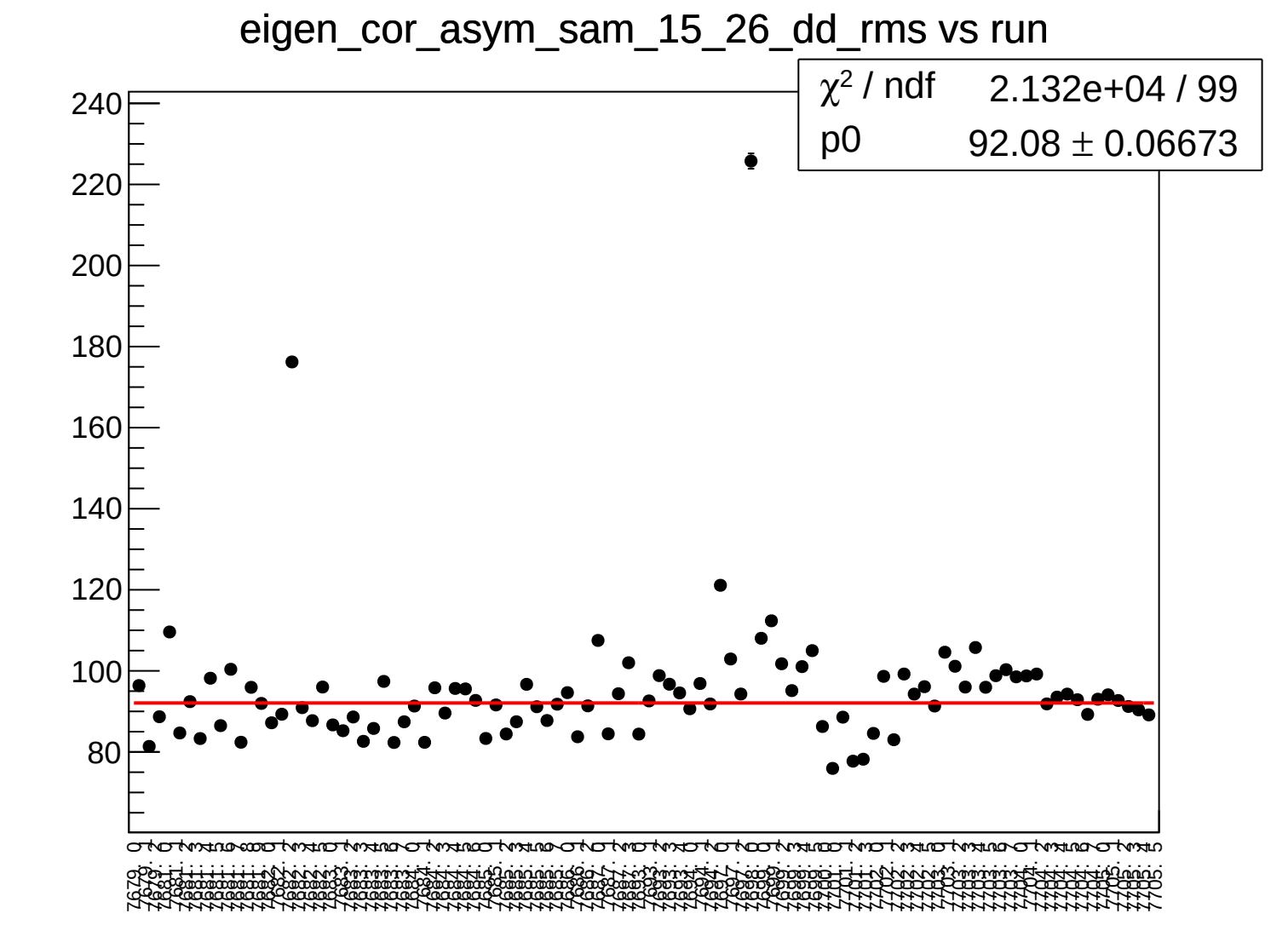
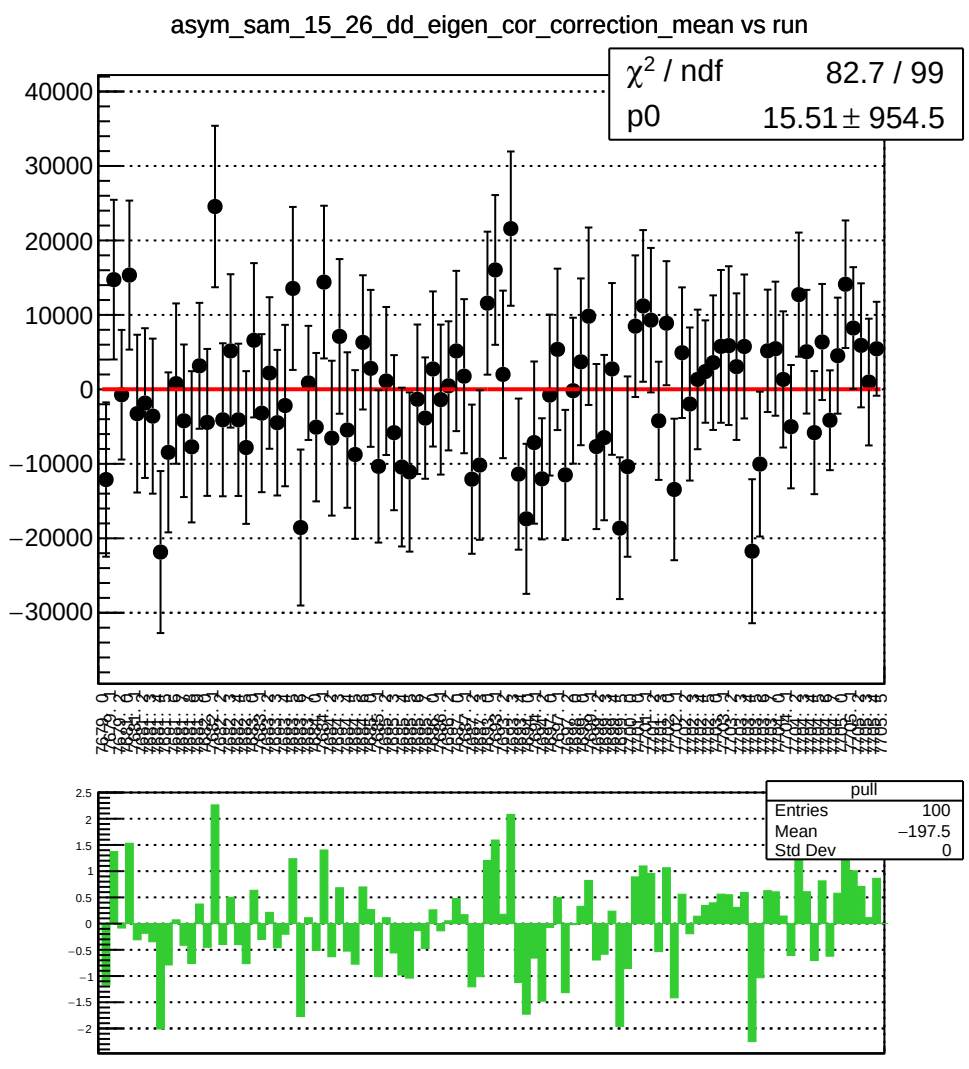
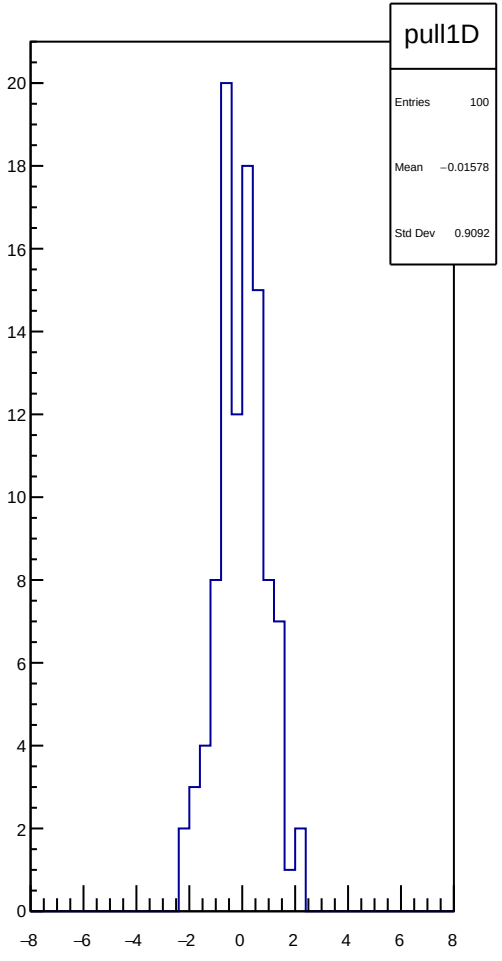
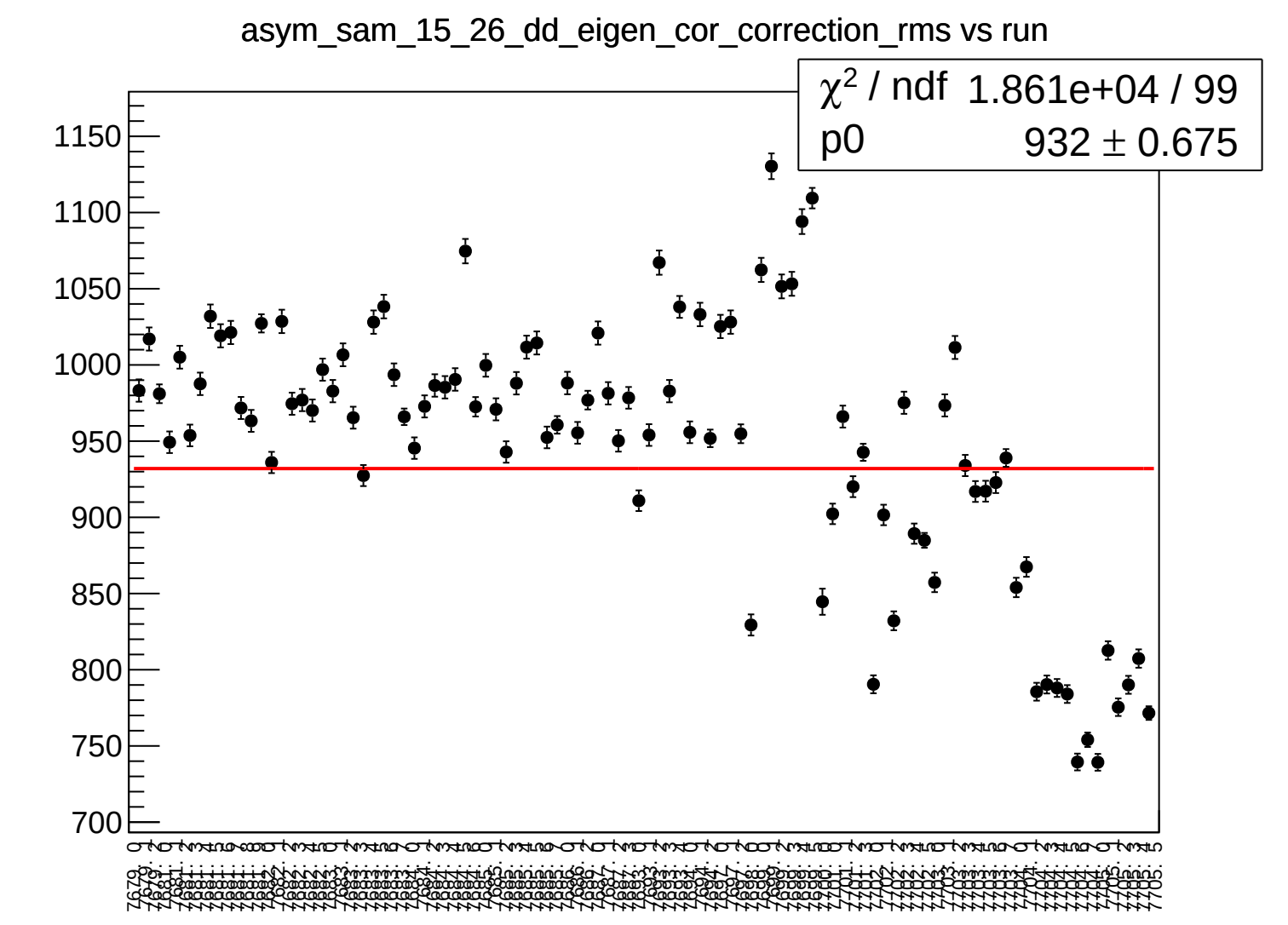
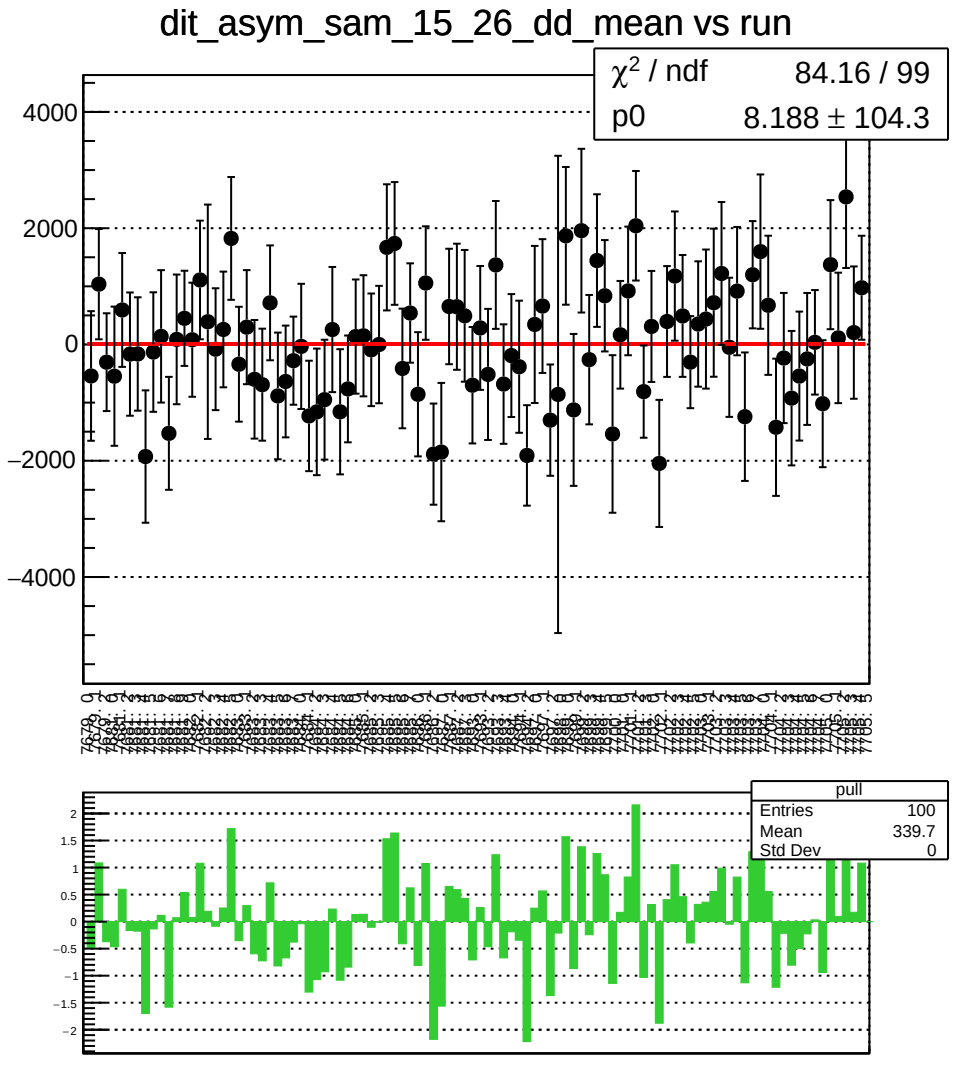
0
2
4
6
8

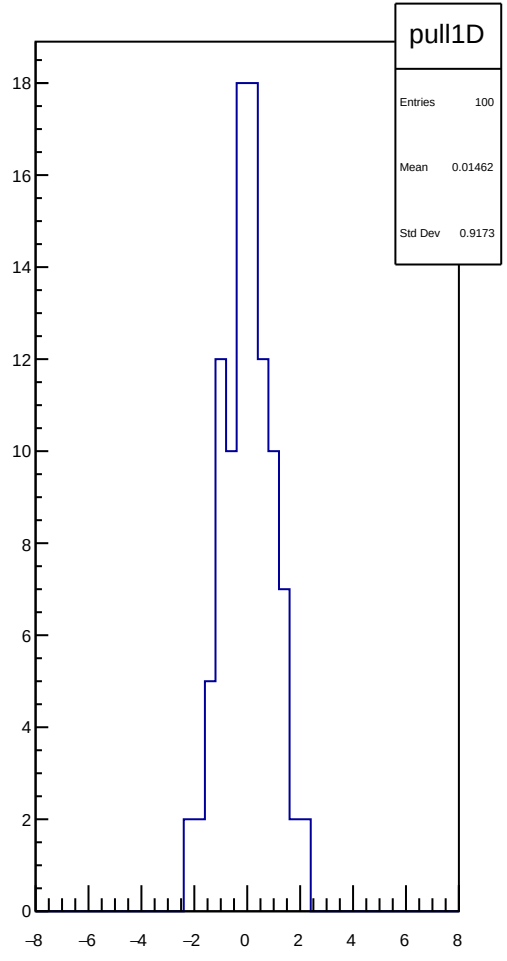

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.132e+04 / 99
p0 92.08 ± 0.06673
240
220
200
180
160
140
120
100
80

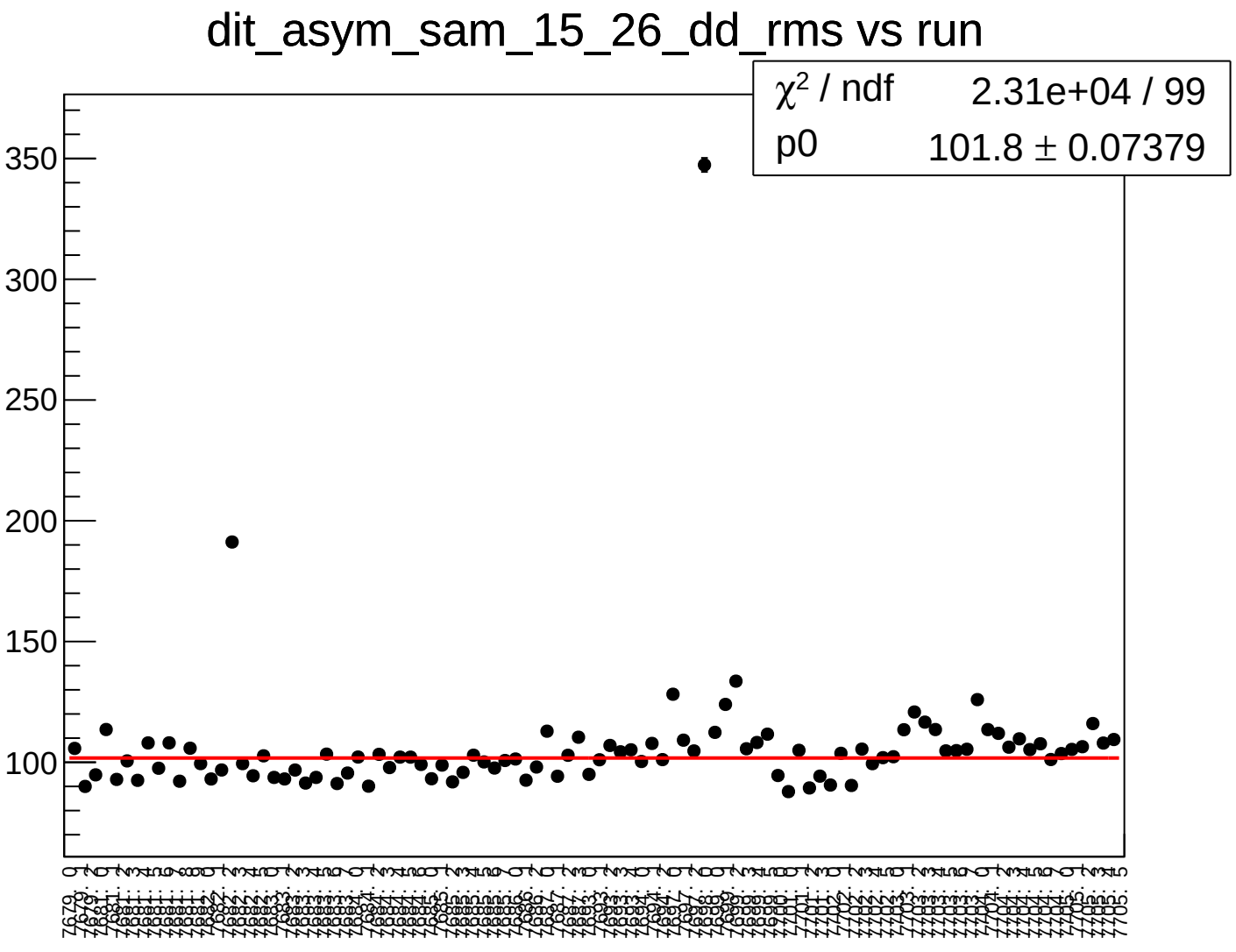

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 82.7 / 99
p0 15.51 ± 954.5
pull
Entries 100
Mean −197.5
Std Dev 0

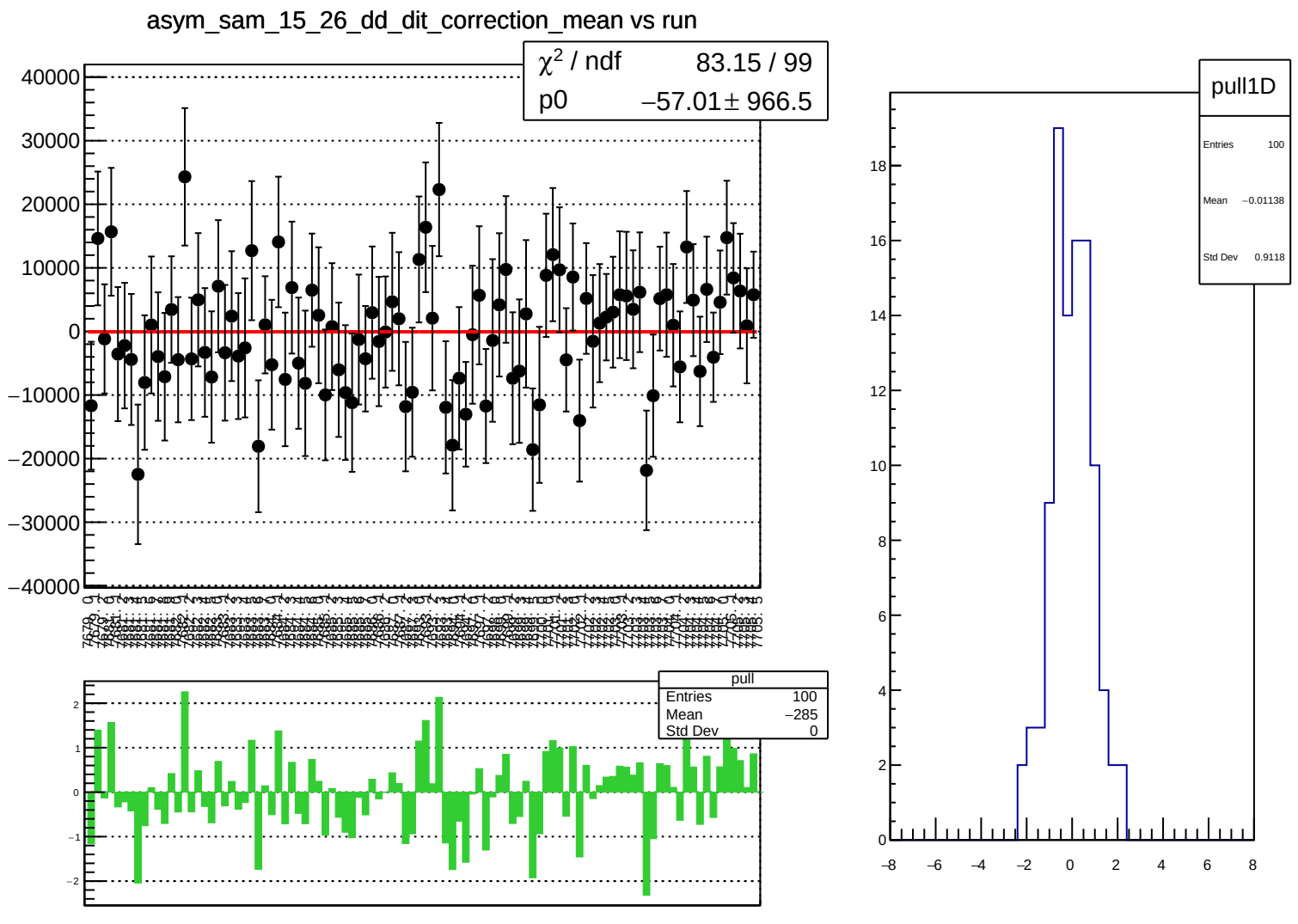

pull1D
Entries 100
Mean −0.01578
Std Dev 0.9092

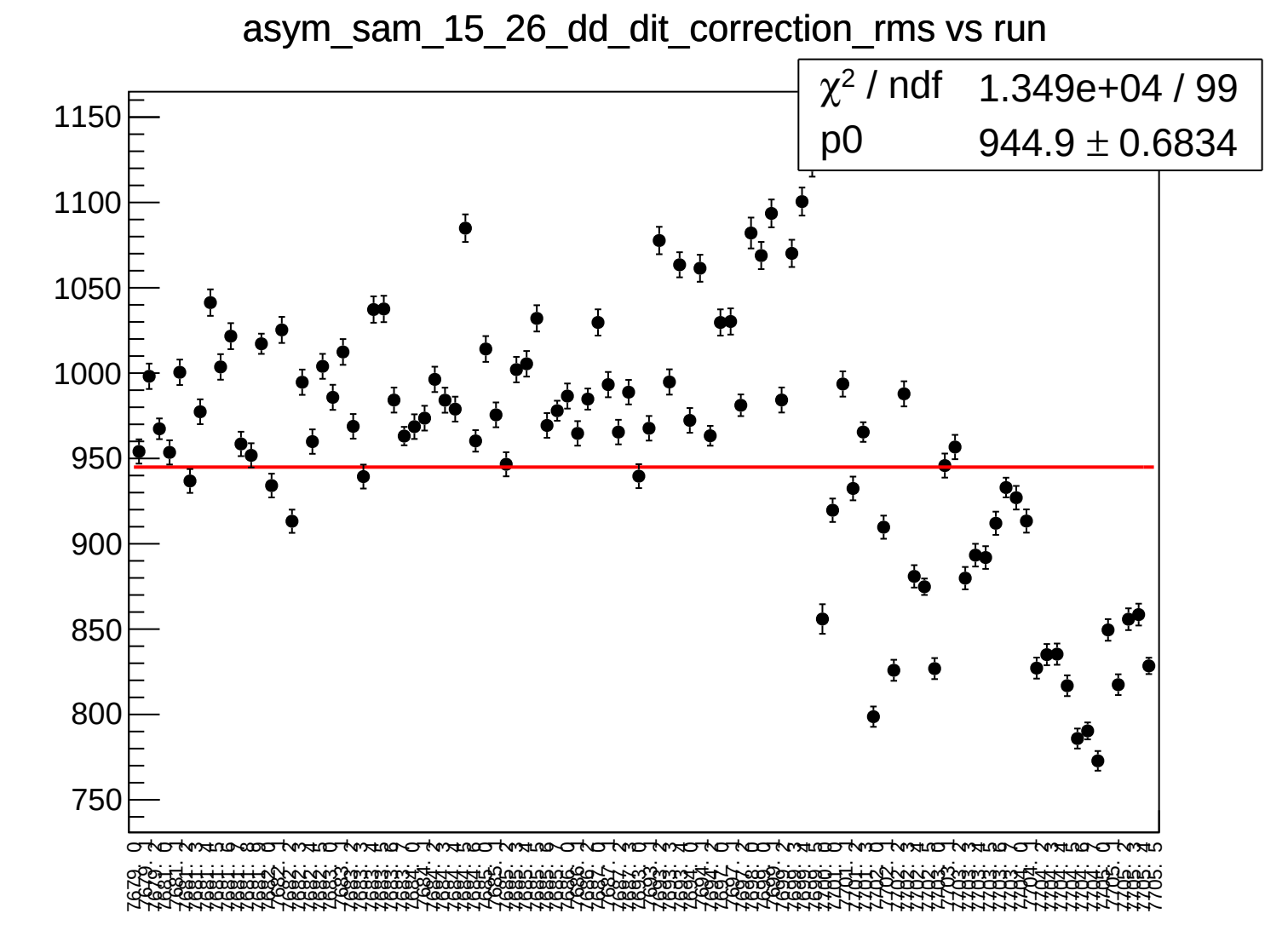

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.861e+04 / 99
p0 932 ± 0.675
1150
1100
1050
1000
950
900
850
800
750
700

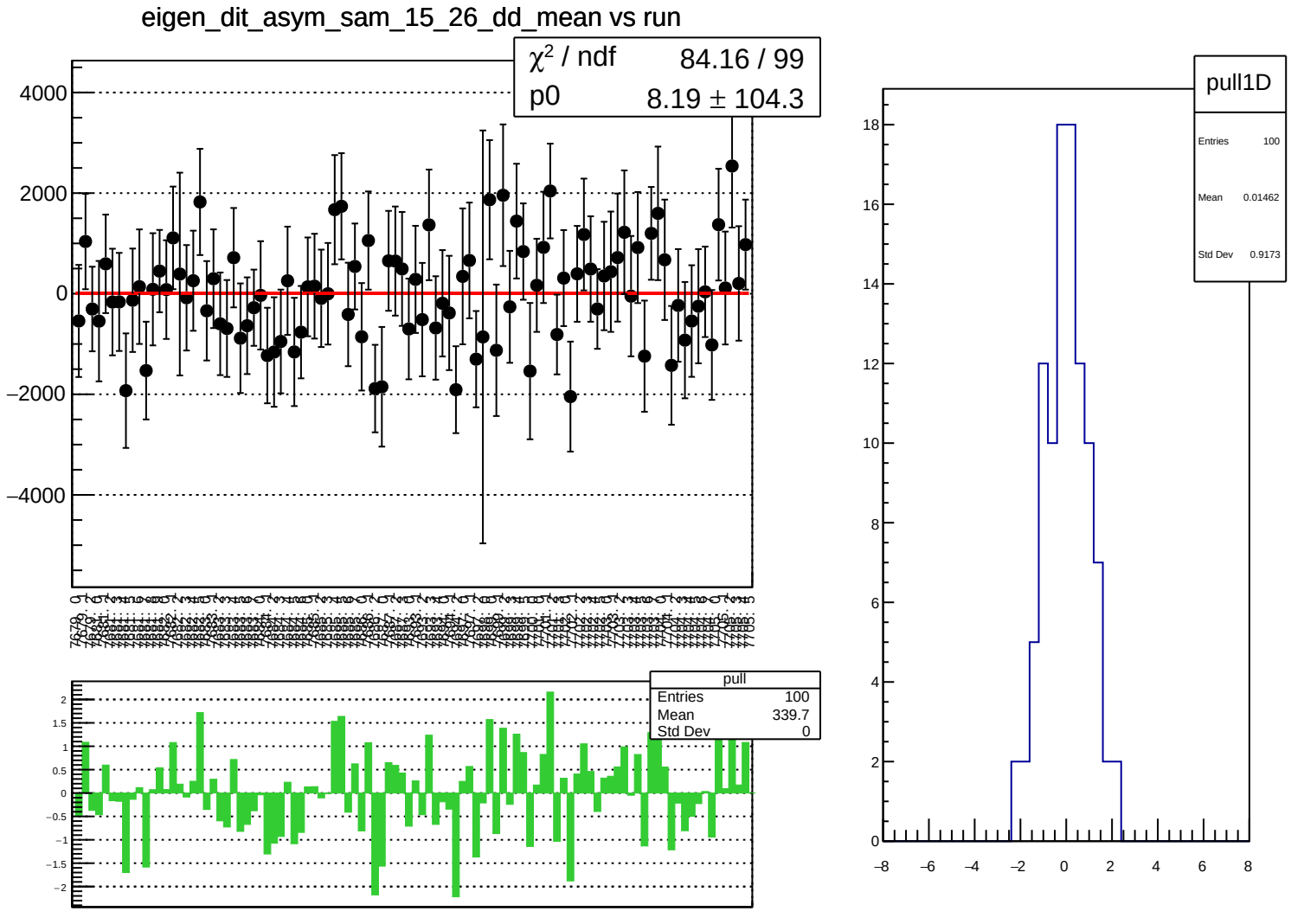

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 84.16 / 99
p0 8.188 ± 104.3
4000
2000
0
−2000
−4000
pull
Entries 100
Mean 339.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

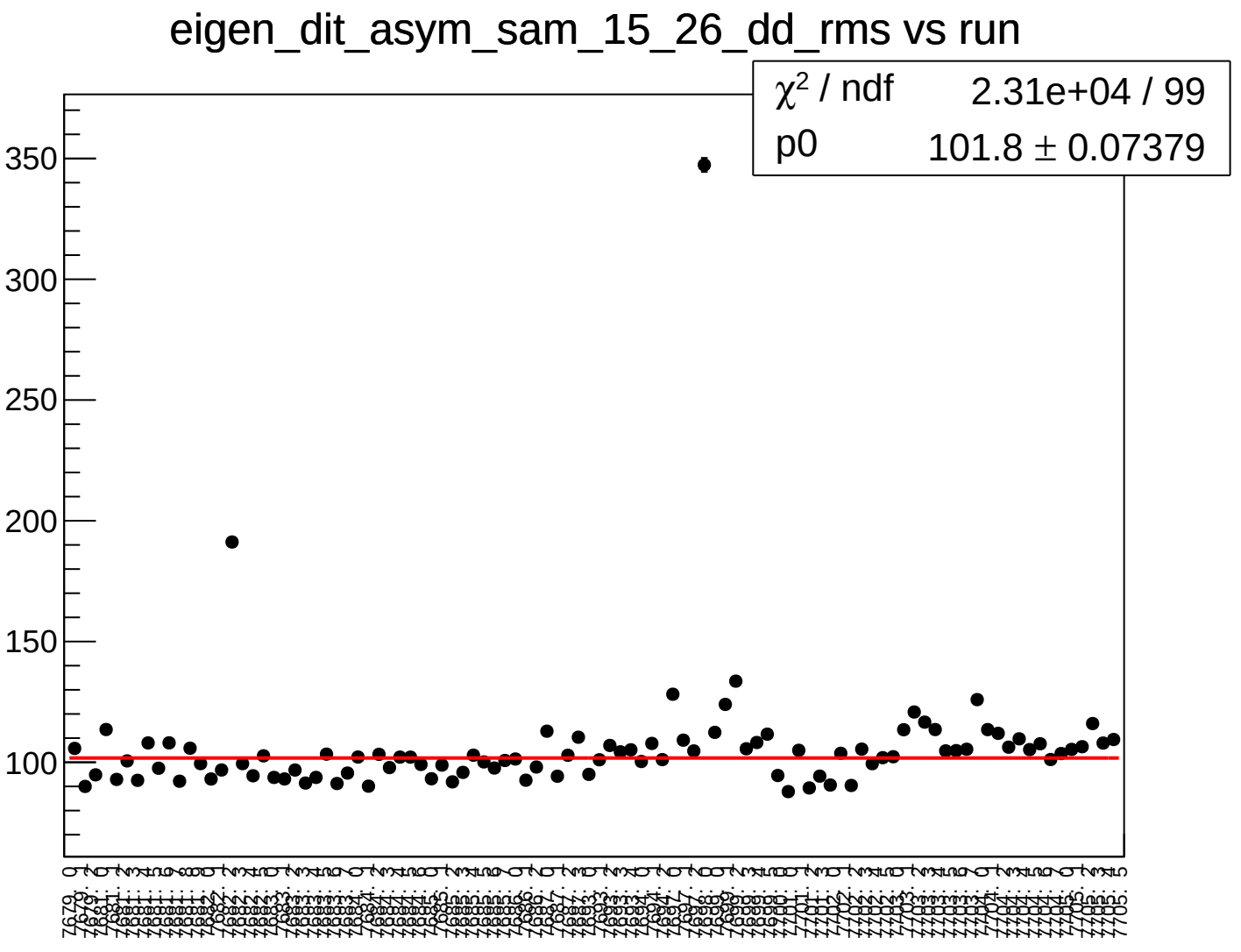

pull1D
Entries 100
Mean 0.01462
Std Dev 0.9173
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

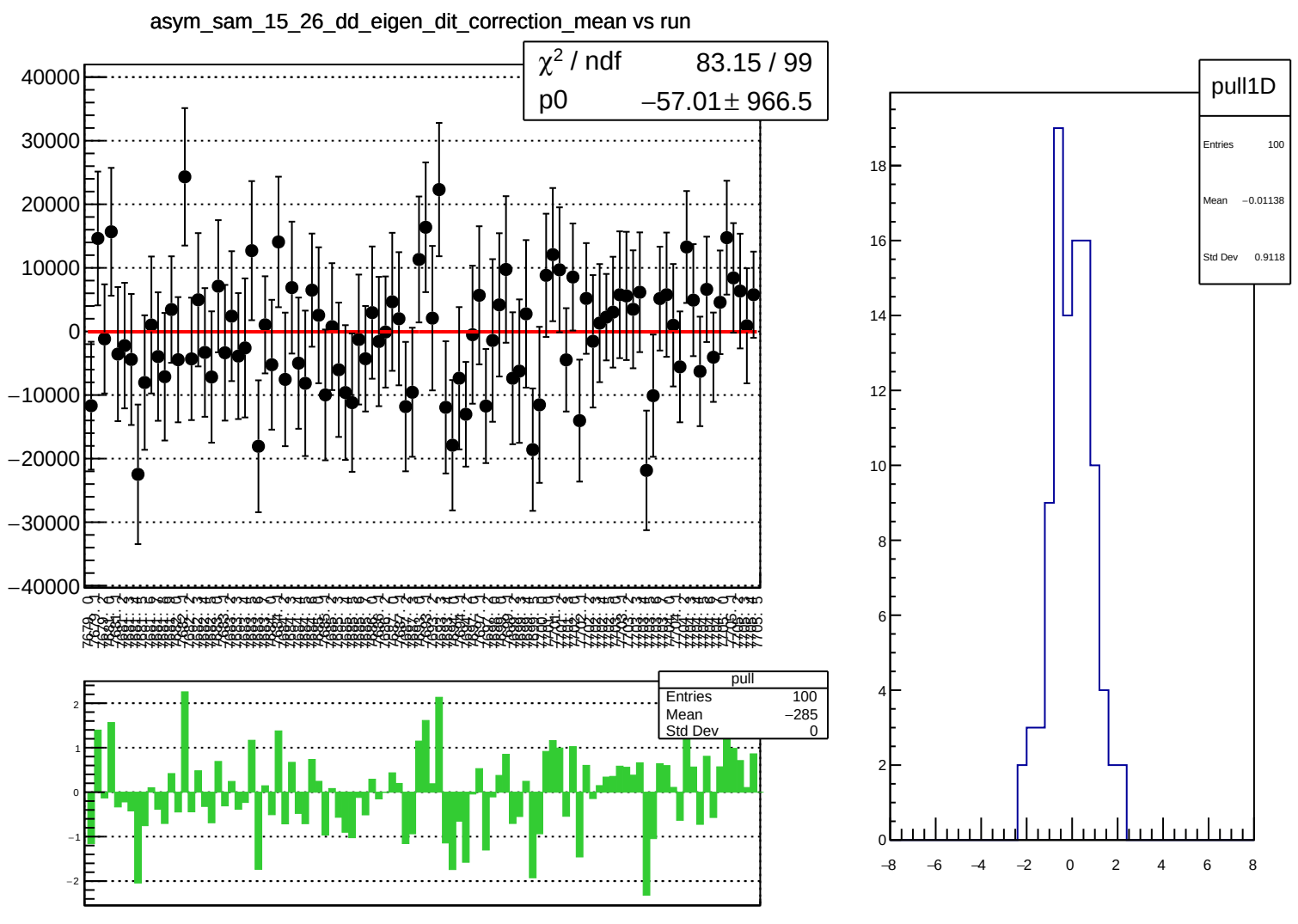

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.31e+04 / 99
p0 101.8 ± 0.07379
350
300
250
200
150
100

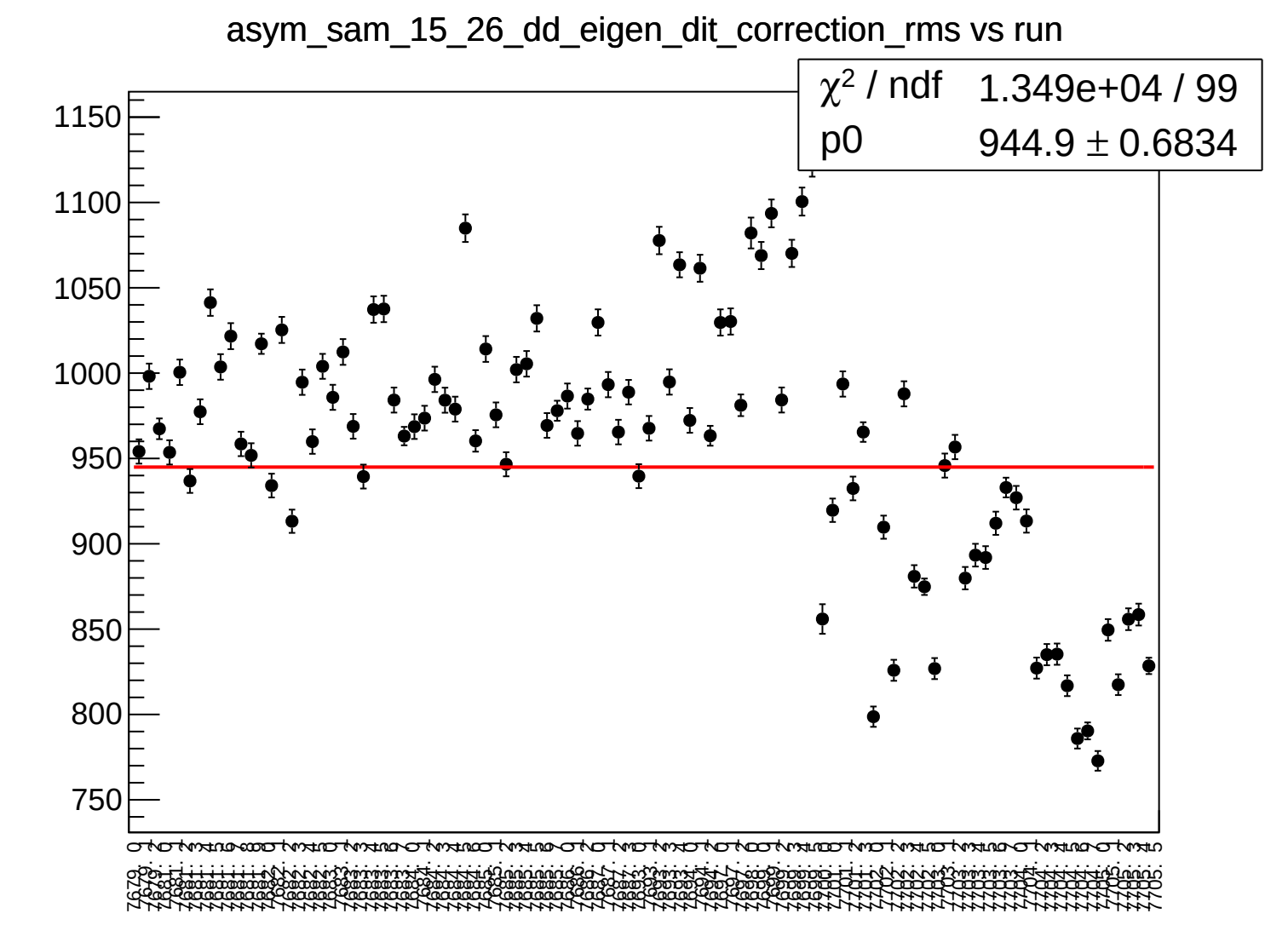

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 83.15 / 99
p0 −57.01 ± 966.5
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 100
Mean −285
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.01138
Std Dev 0.9118
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

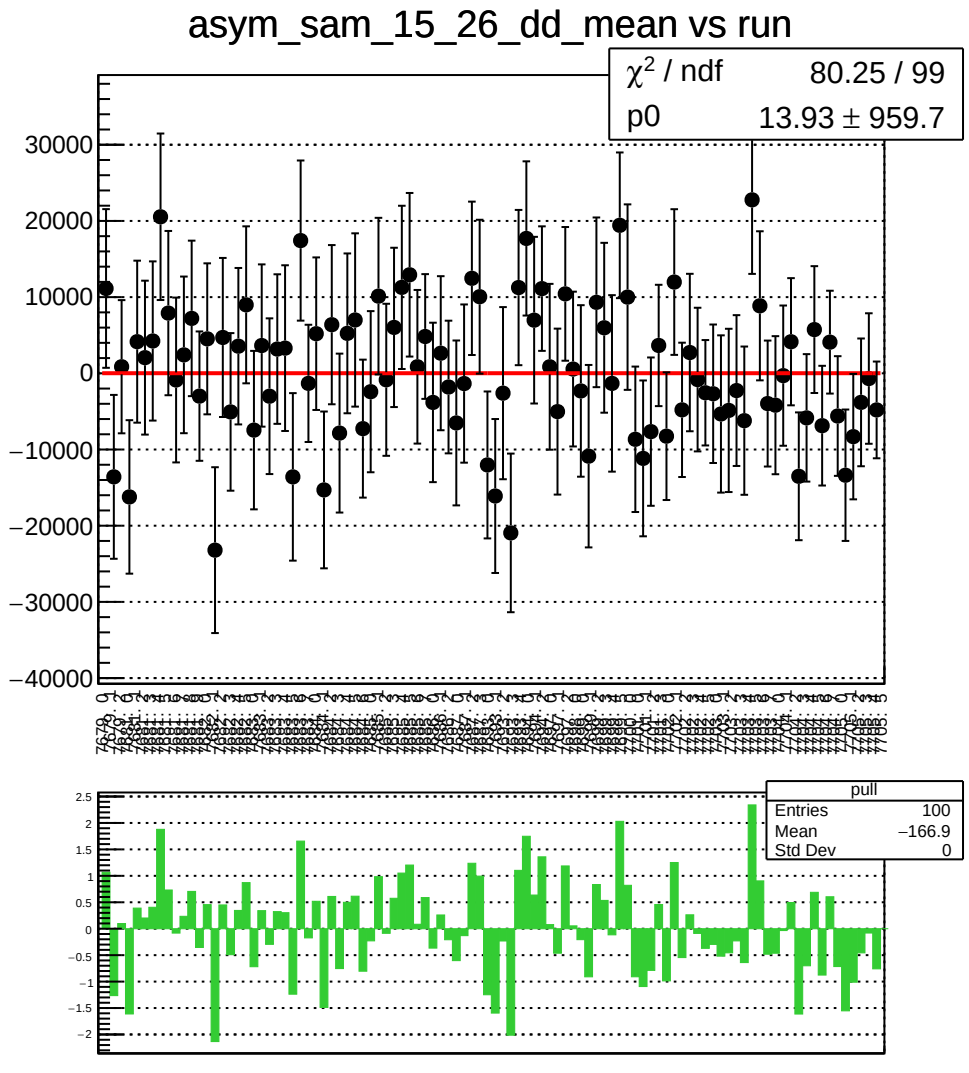

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 1.349e+04 / 99
p0 944.9 ± 0.6834
1150
1100
1050
1000
950
900
850
800
750

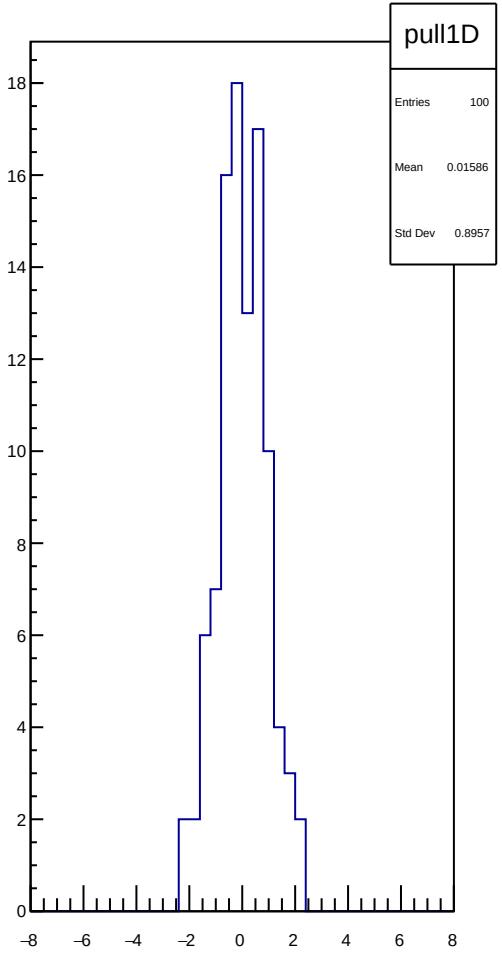

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 84.16 / 99
p0 8.19 ± 104.3
4000
2000
0
−2000
−4000
pull
Entries 100
Mean 339.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 100
Mean 0.01462
Std Dev 0.9173
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

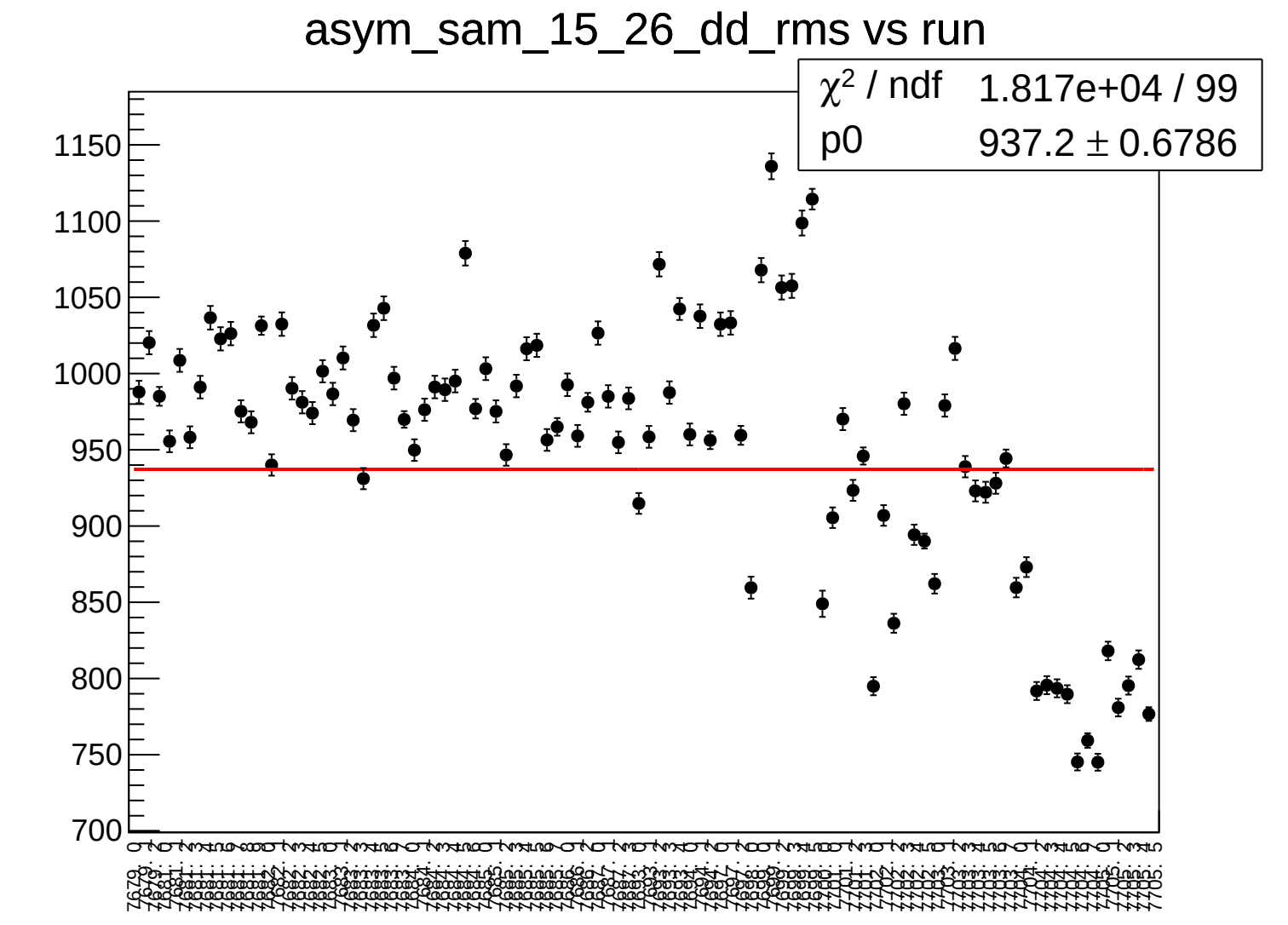

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.31e+04 / 99
p0 101.8 ± 0.07379
350
300
250
200
150
100

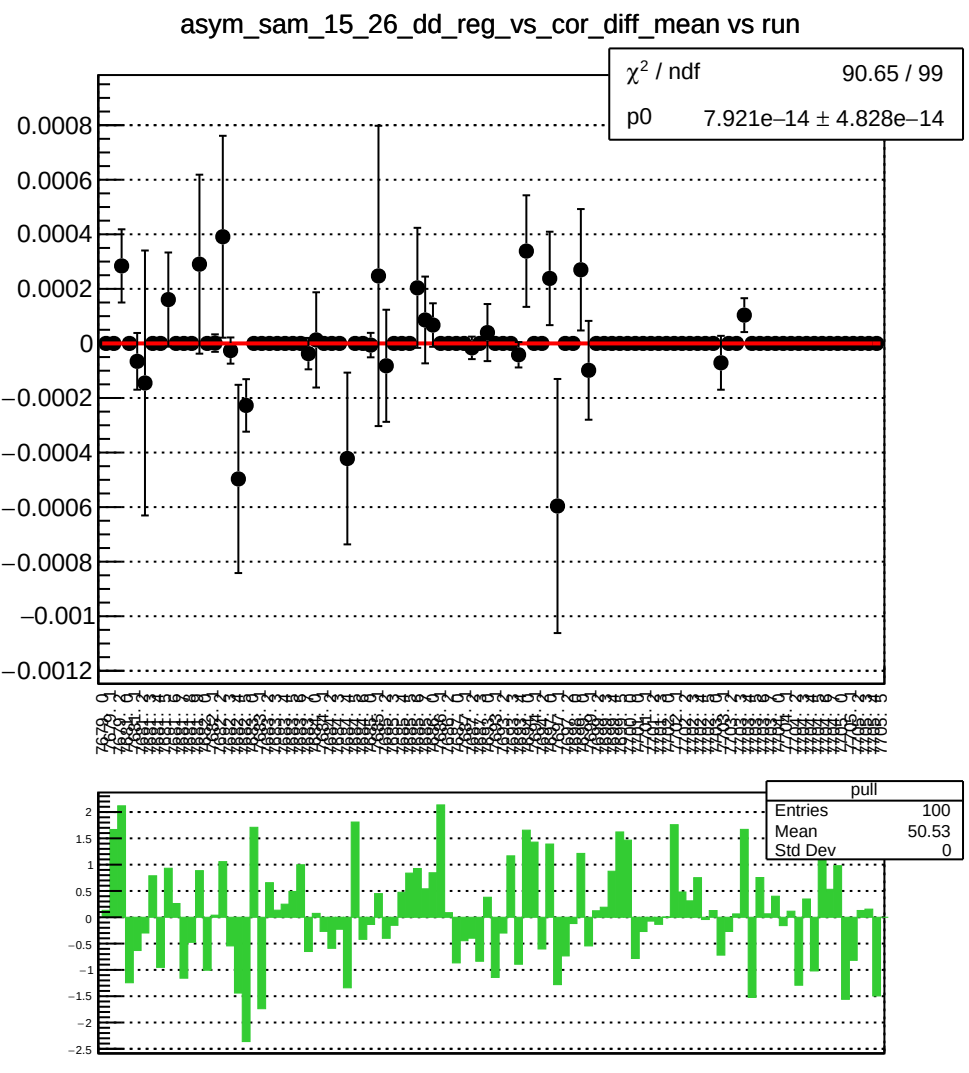

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 83.15 / 99
p0 −57.01 ± 966.5
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 100
Mean −285
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.01138
Std Dev 0.9118
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

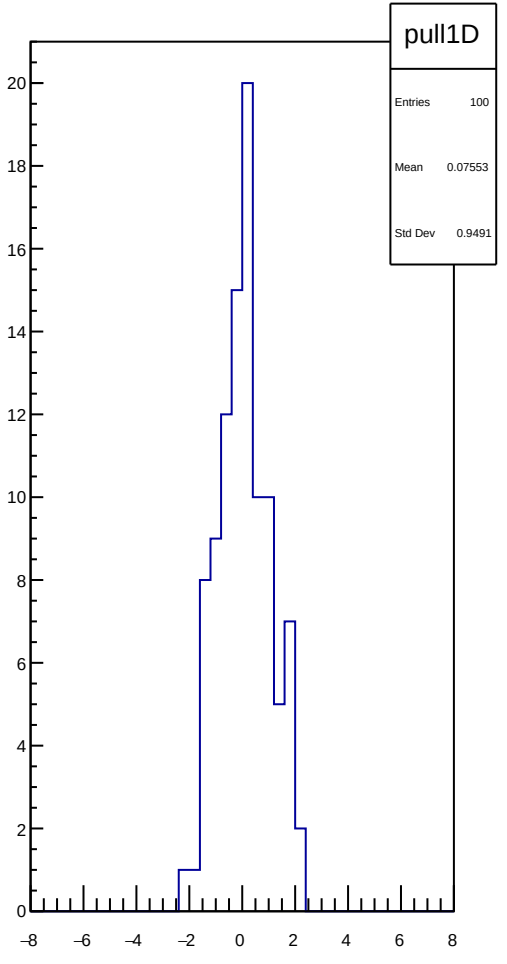

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.349e+04 / 99
p0 944.9 ± 0.6834
1150
1100
1050
1000
950
900
850
800
750

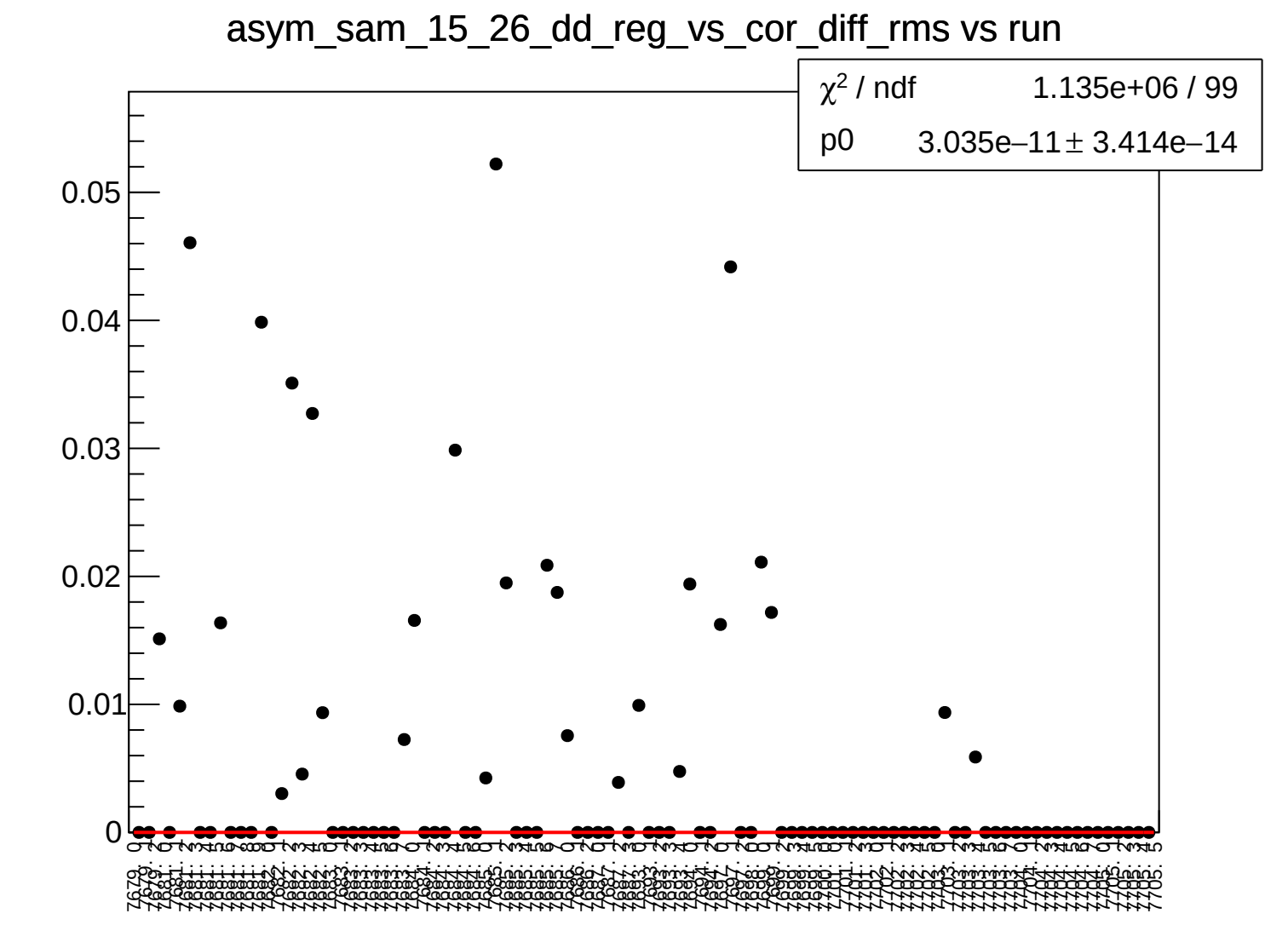

asym_sam_15_26_dd_mean vs run
χ² / ndf 80.25 / 99
p0 13.93 ± 959.7
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 100
Mean −166.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

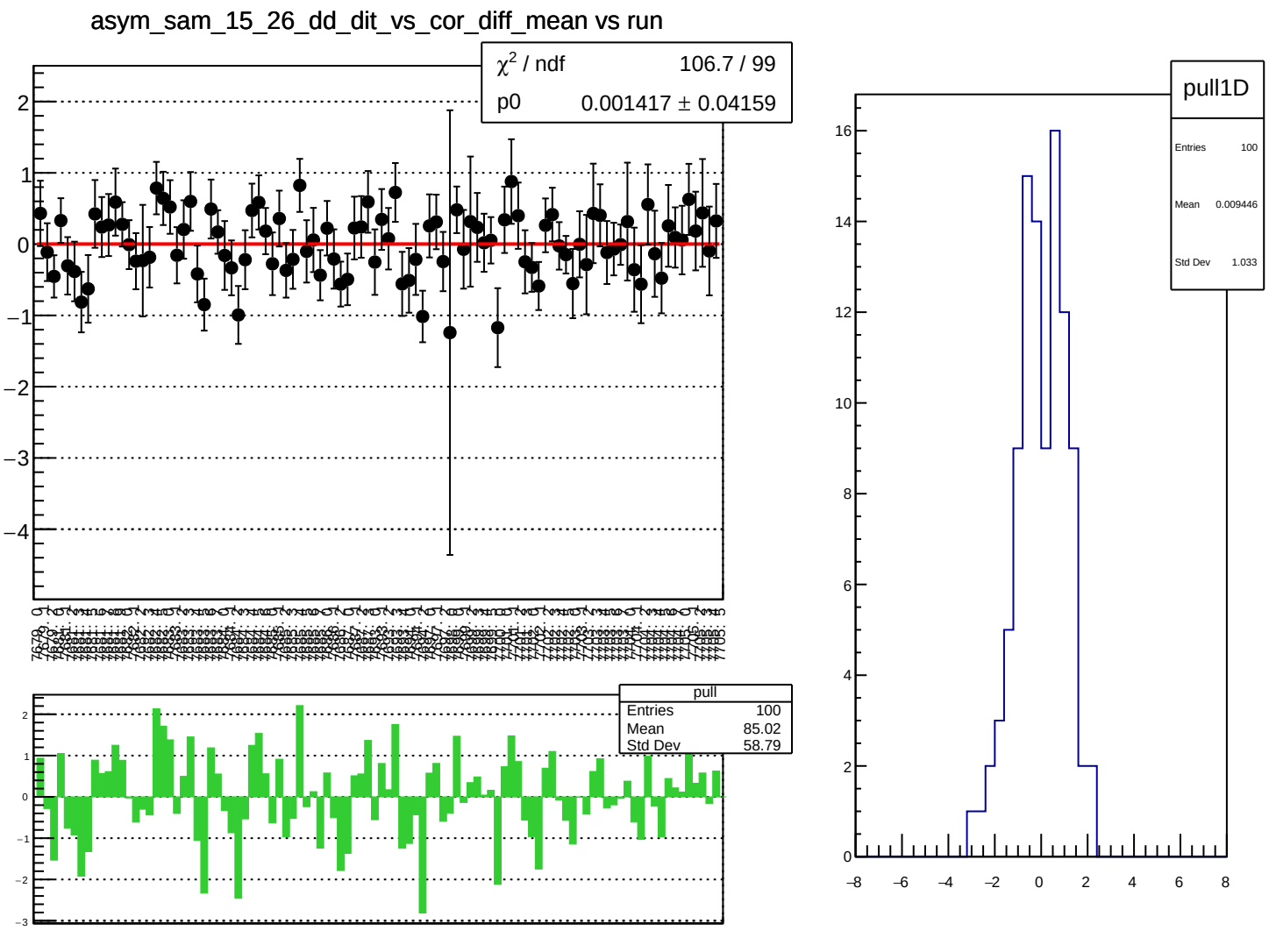

pull1D
Entries 100
Mean 0.01586
Std Dev 0.8957
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

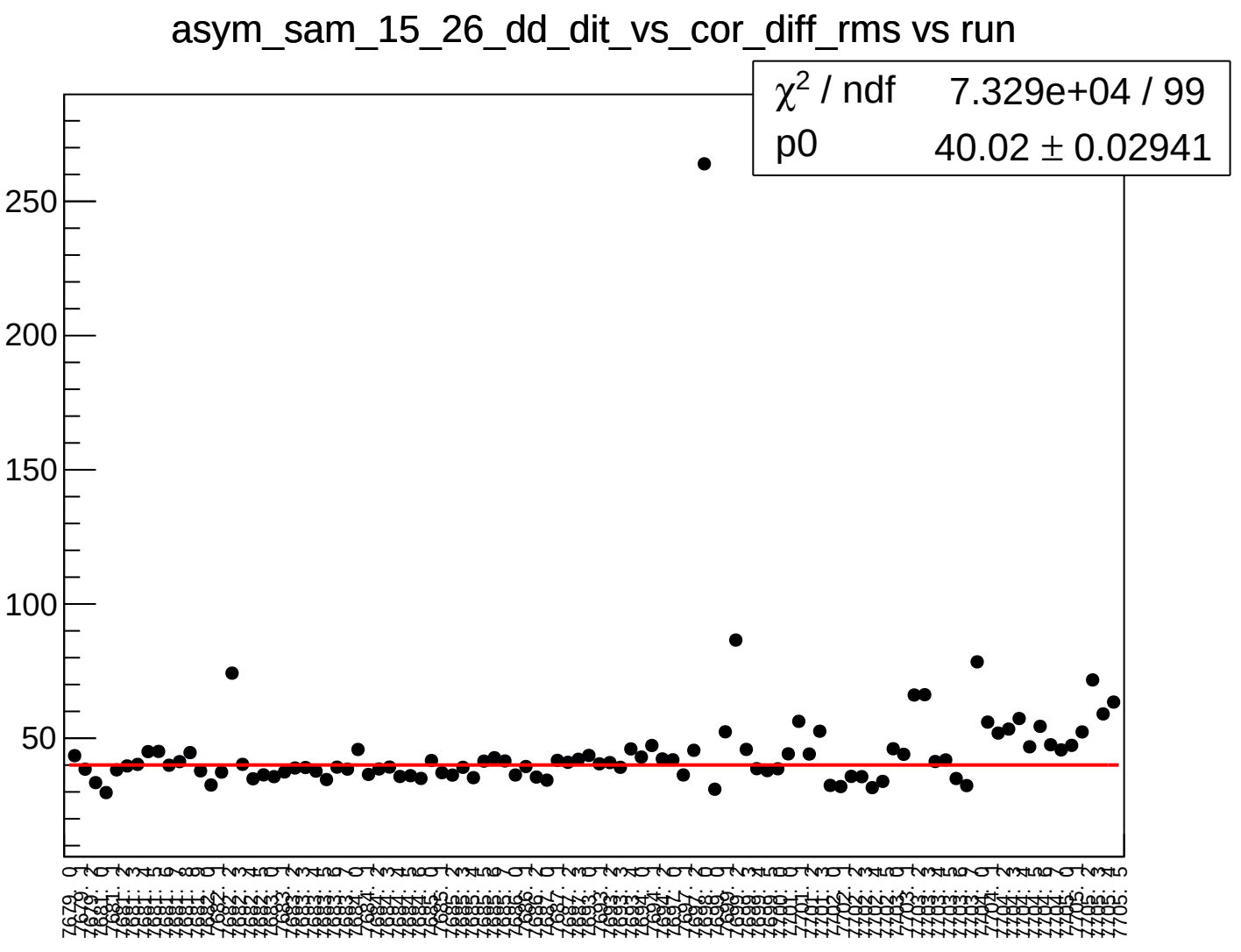

asym_sam_15_26_dd_rms vs run
χ² / ndf 1.817e+04 / 99
p0 937.2 ± 0.6786
1150
1100
1050
1000
950
900
850
800
750
700

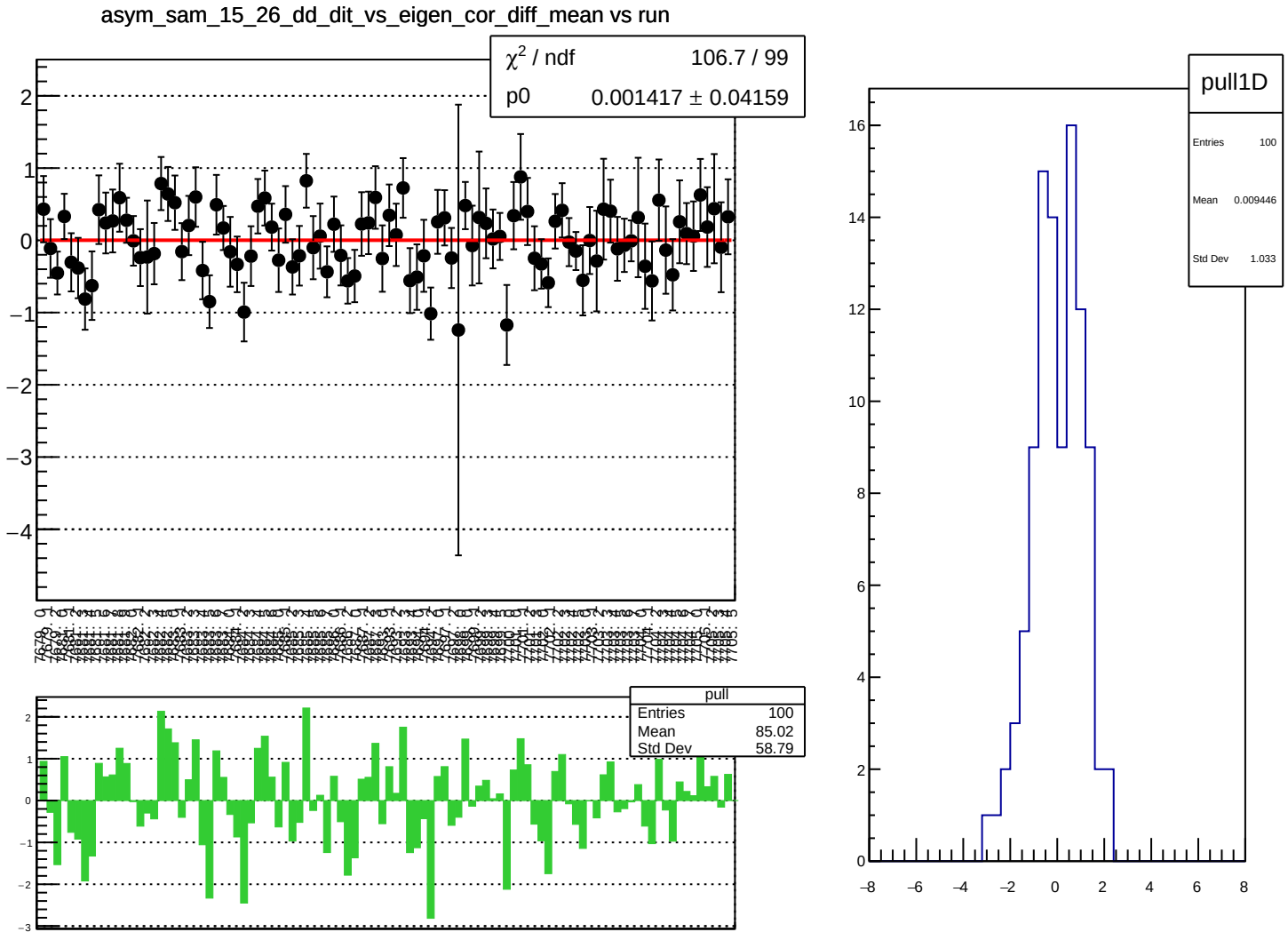

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.65 / 99
p0 7.921e−14 ± 4.828e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 100
Mean 50.53
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

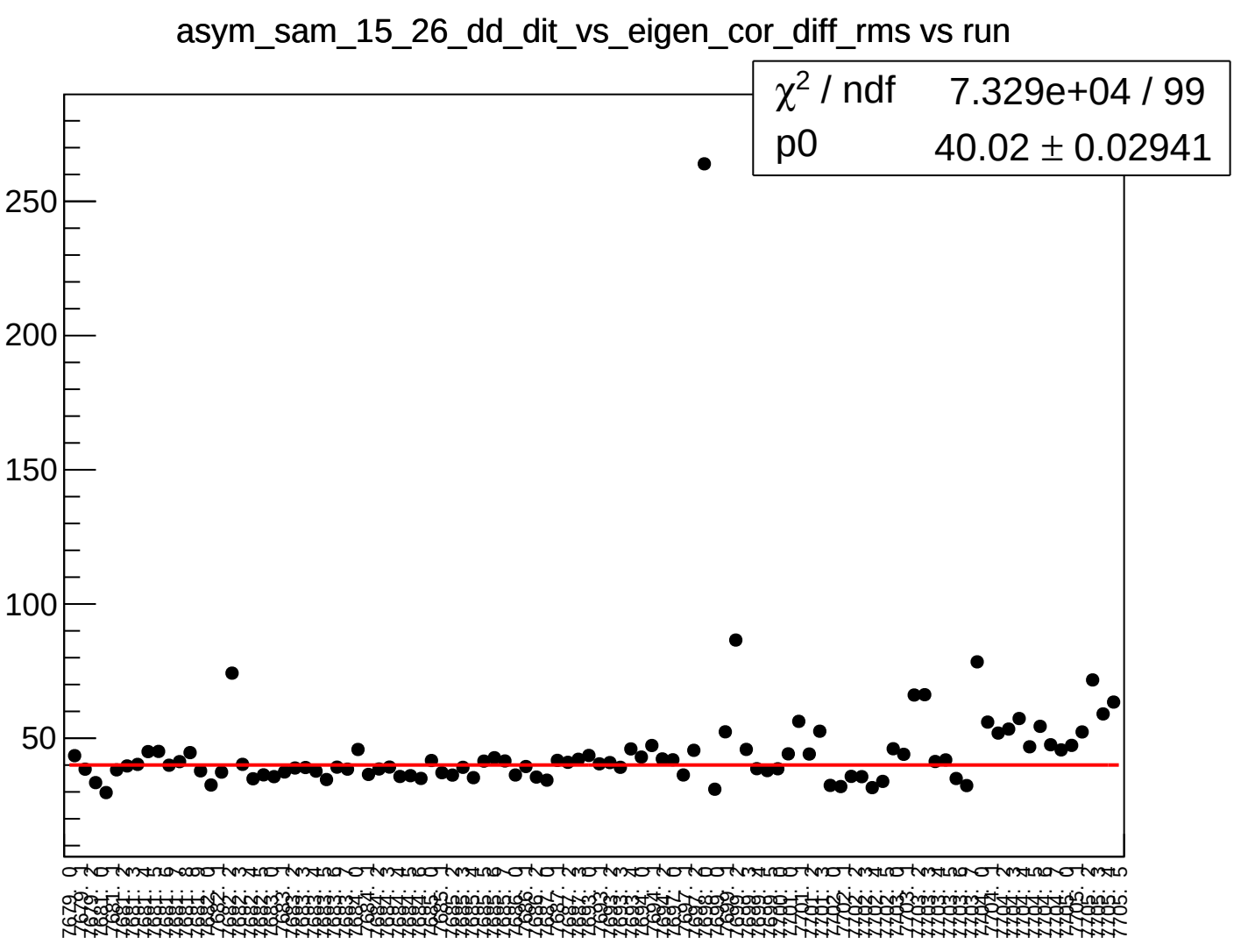

pull1D
Entries 100
Mean 0.07553
Std Dev 0.9491
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

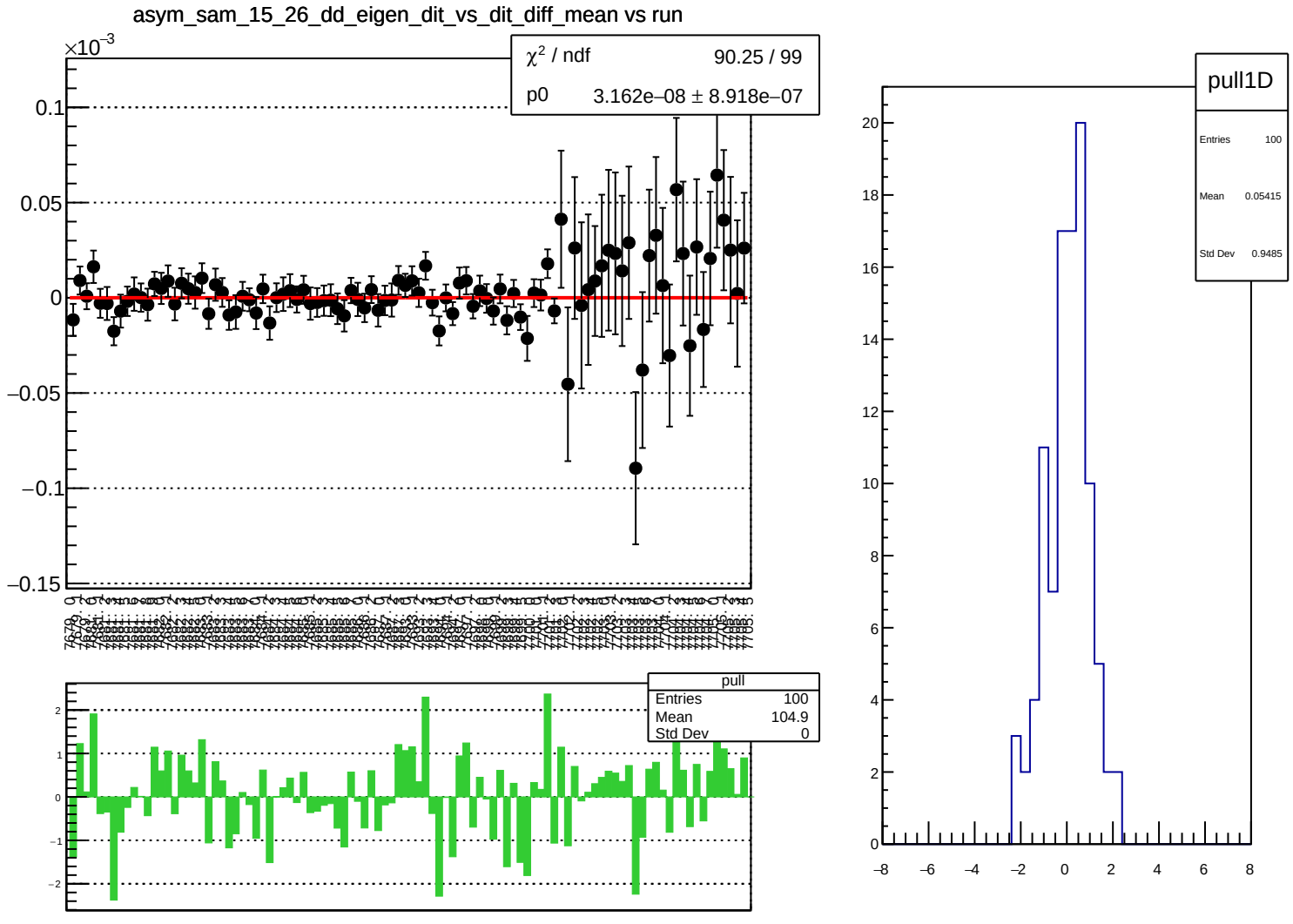

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.135e+06 / 99
p0 3.035e−11 ± 3.414e−14
0.05
0.04
0.03
0.02
0.01
0

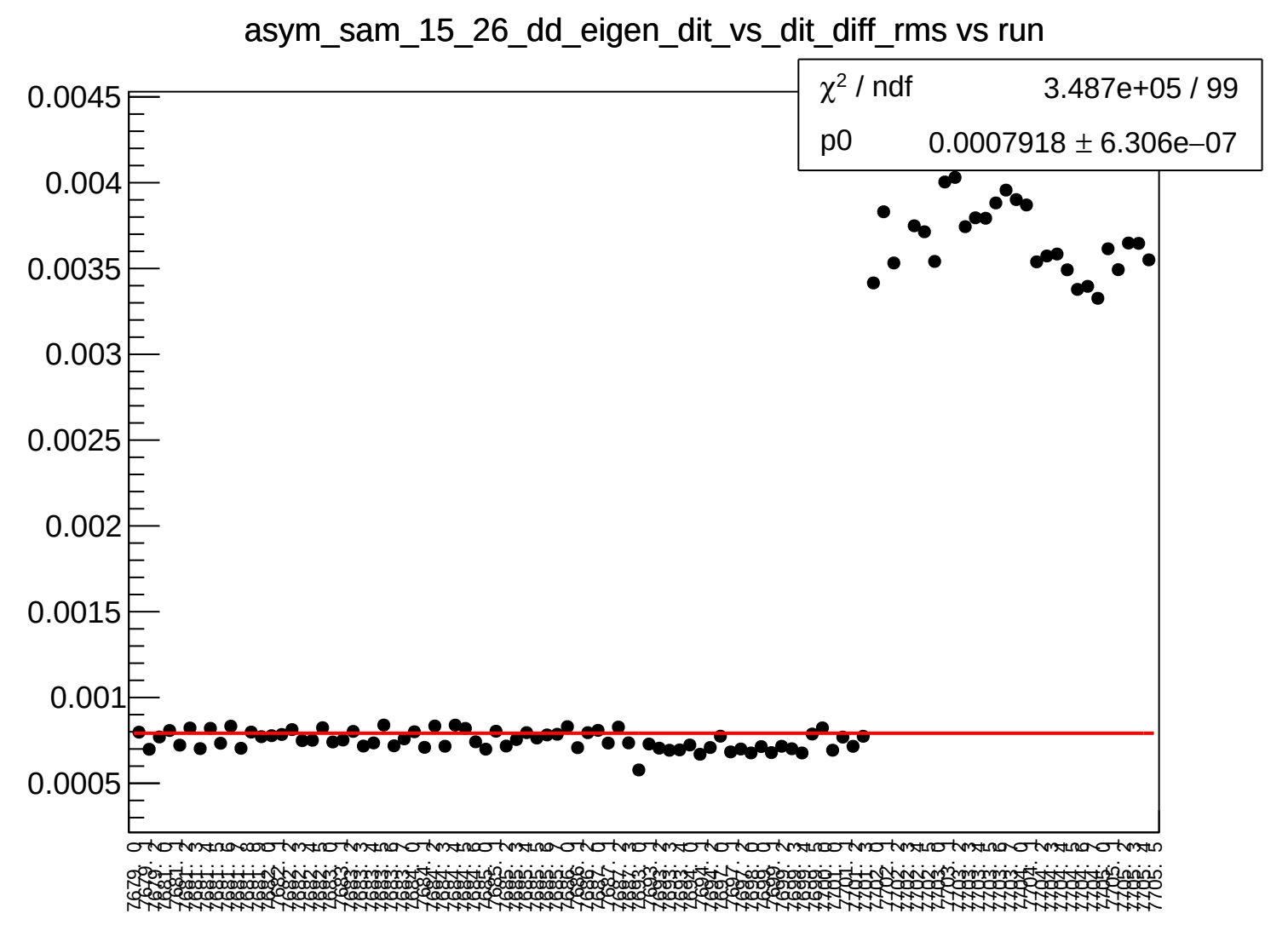

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 106.7 / 99
p0 0.001417 ± 0.04159
pull
Entries 100
Mean 85.02
Std Dev 58.79
pull1D
Entries 100
Mean 0.009446
Std Dev 1.033

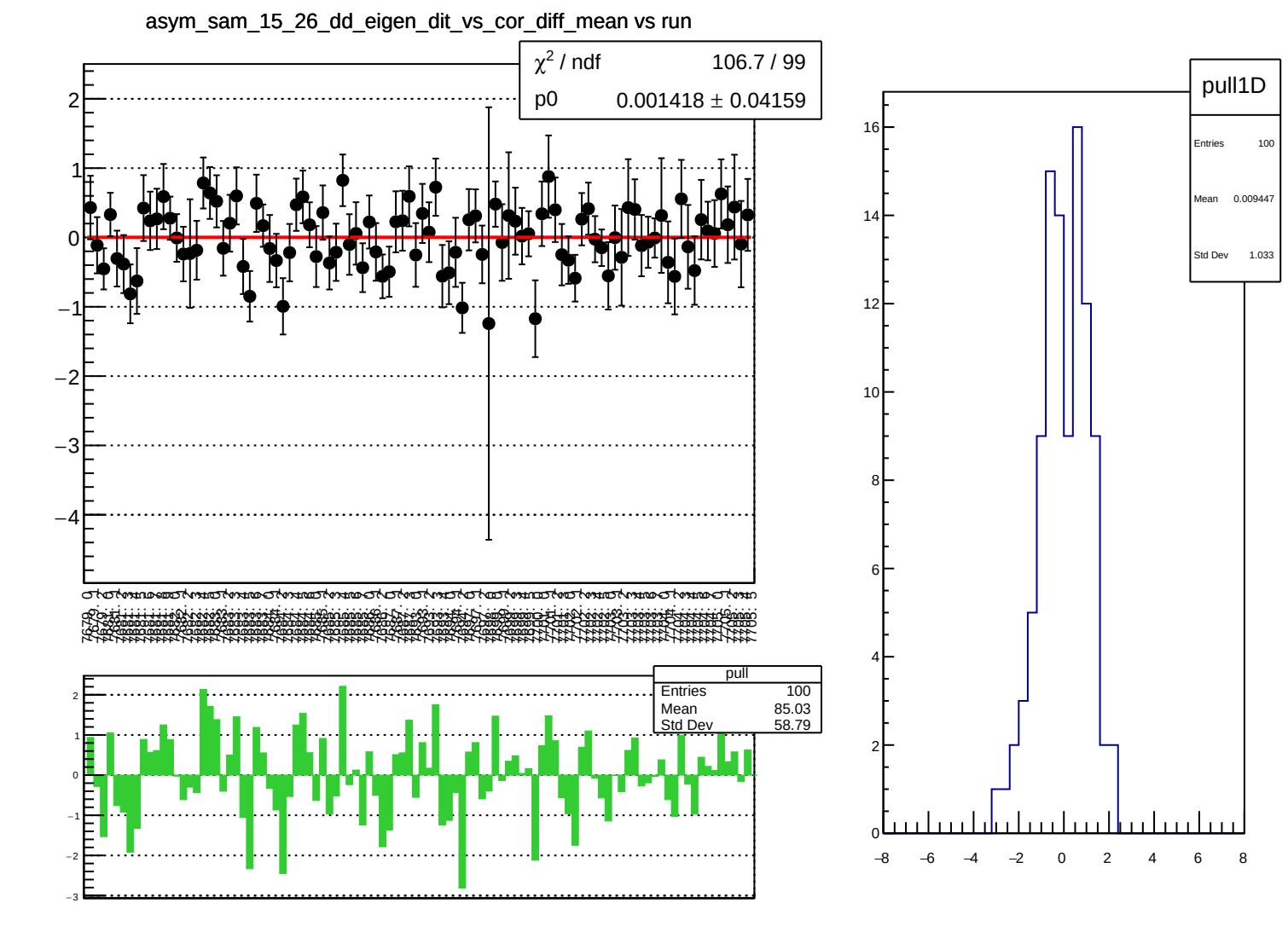

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.329e+04 / 99
p0 40.02 ± 0.02941
250
200
150
100
50

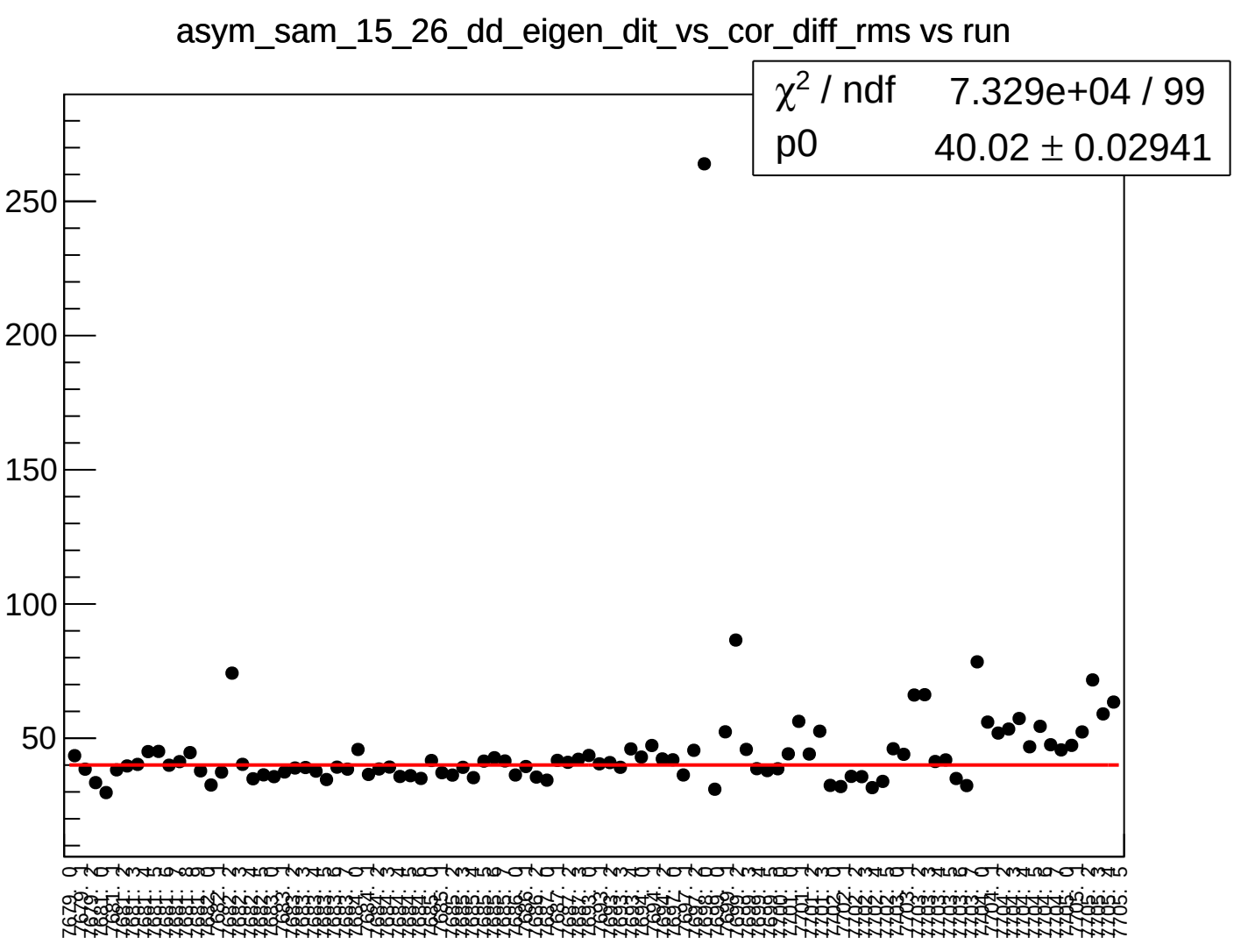

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.7 / 99
p0 0.001417 ± 0.04159
pull
Entries 100
Mean 85.02
Std Dev 58.79
pull1D
Entries 100
Mean 0.009446
Std Dev 1.033

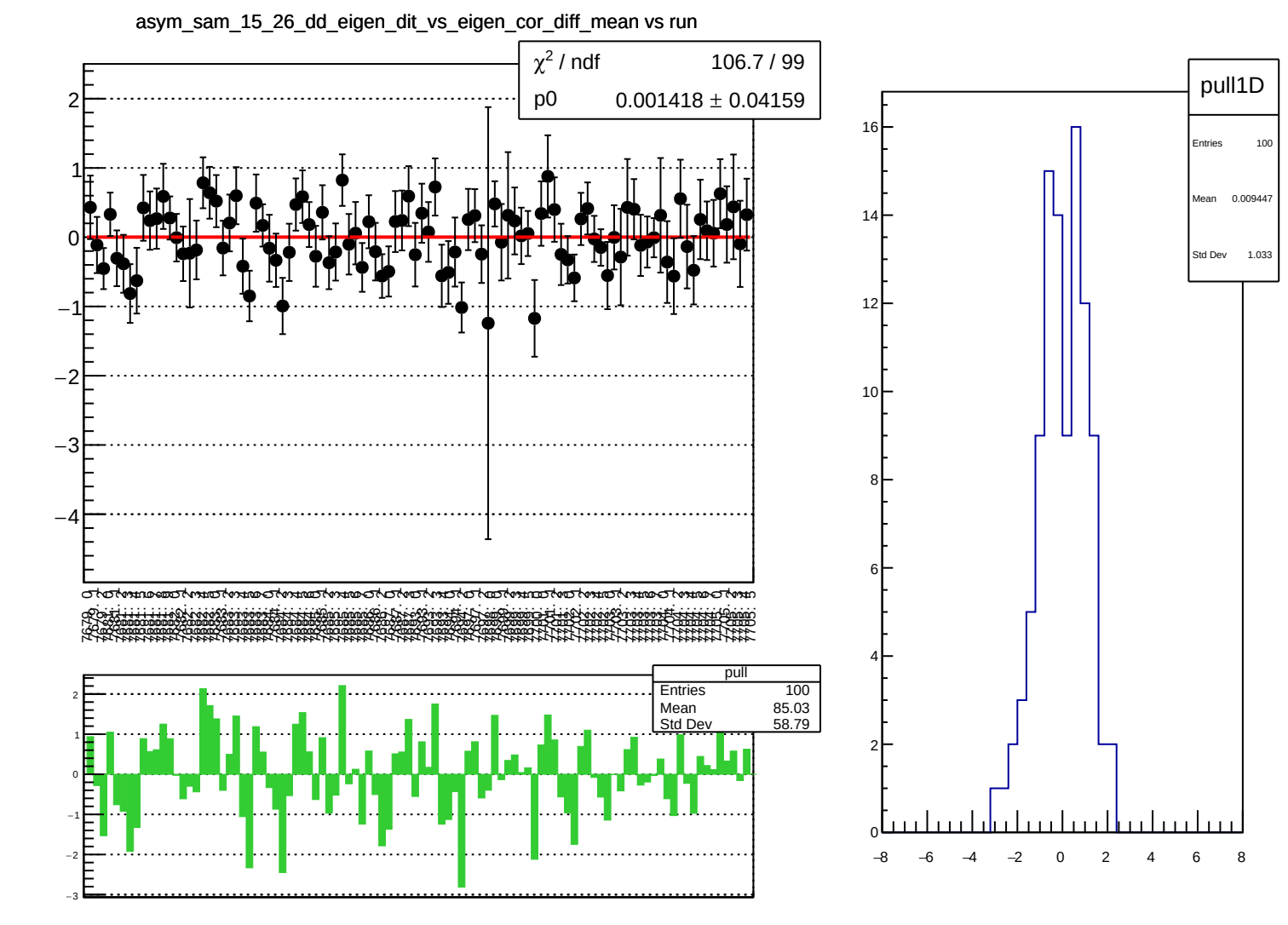

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 7.329e+04 / 99
p0 40.02 ± 0.02941
250
200
150
100
50

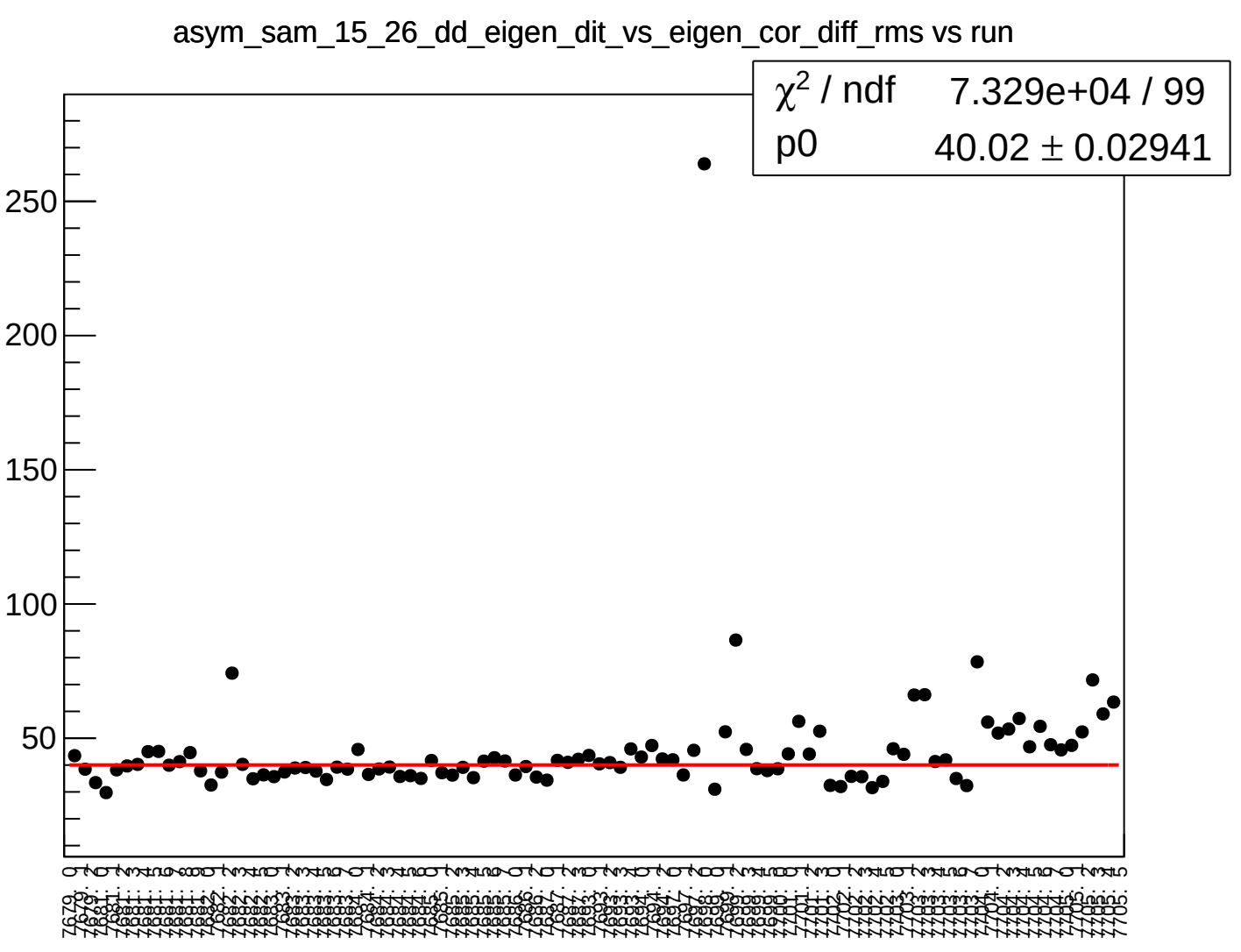

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.25 / 99
p0 3.162e−08 ± 8.918e−07
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 100
Mean 104.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.05415
Std Dev 0.9485
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

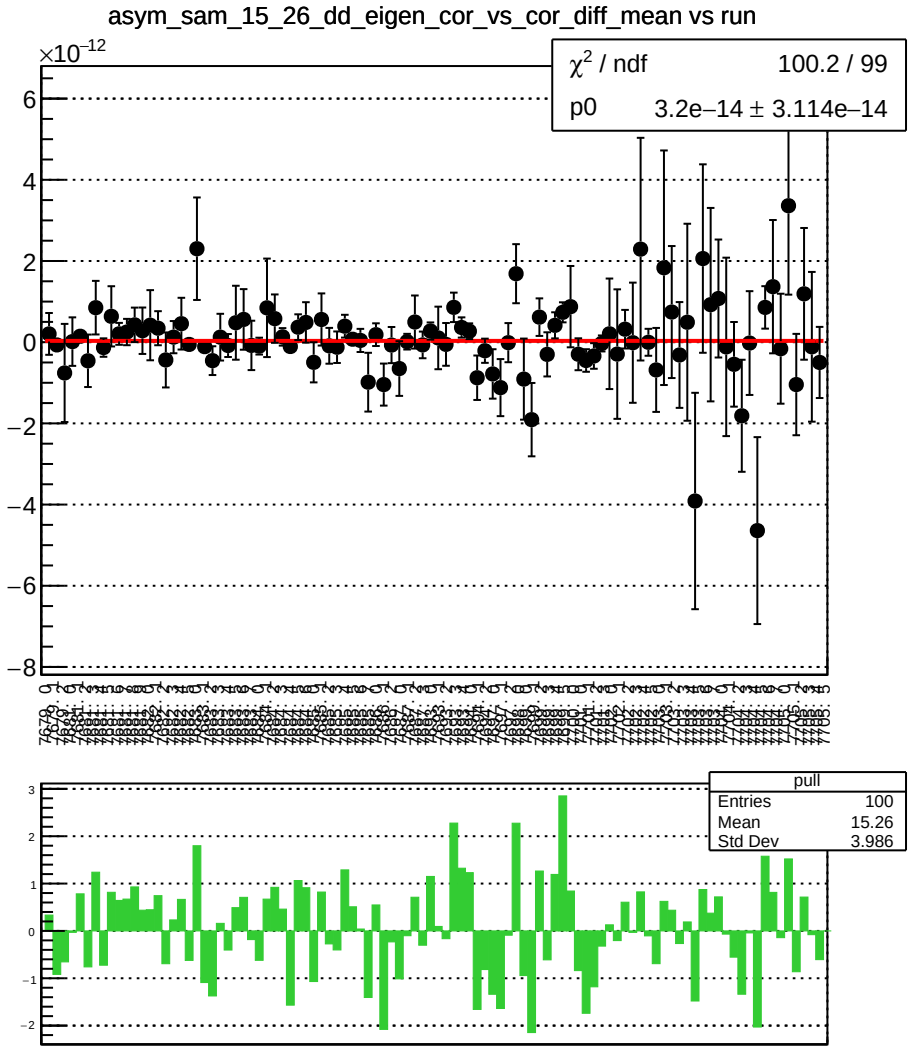

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.487e+05 / 99
p0 0.0007918 ± 6.306e−07
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

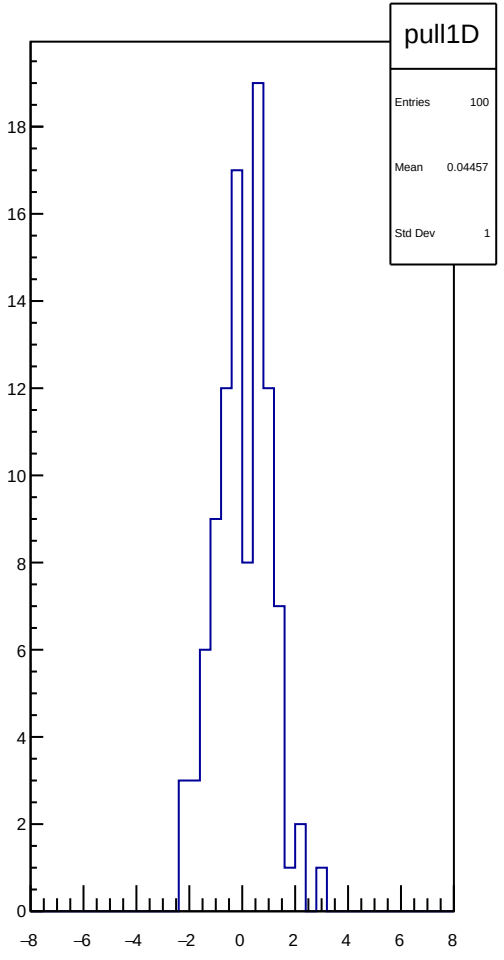

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.7 / 99
p0 0.001418 ± 0.04159
pull
Entries 100
Mean 85.03
Std Dev 58.79
pull1D
Entries 100
Mean 0.009447
Std Dev 1.033

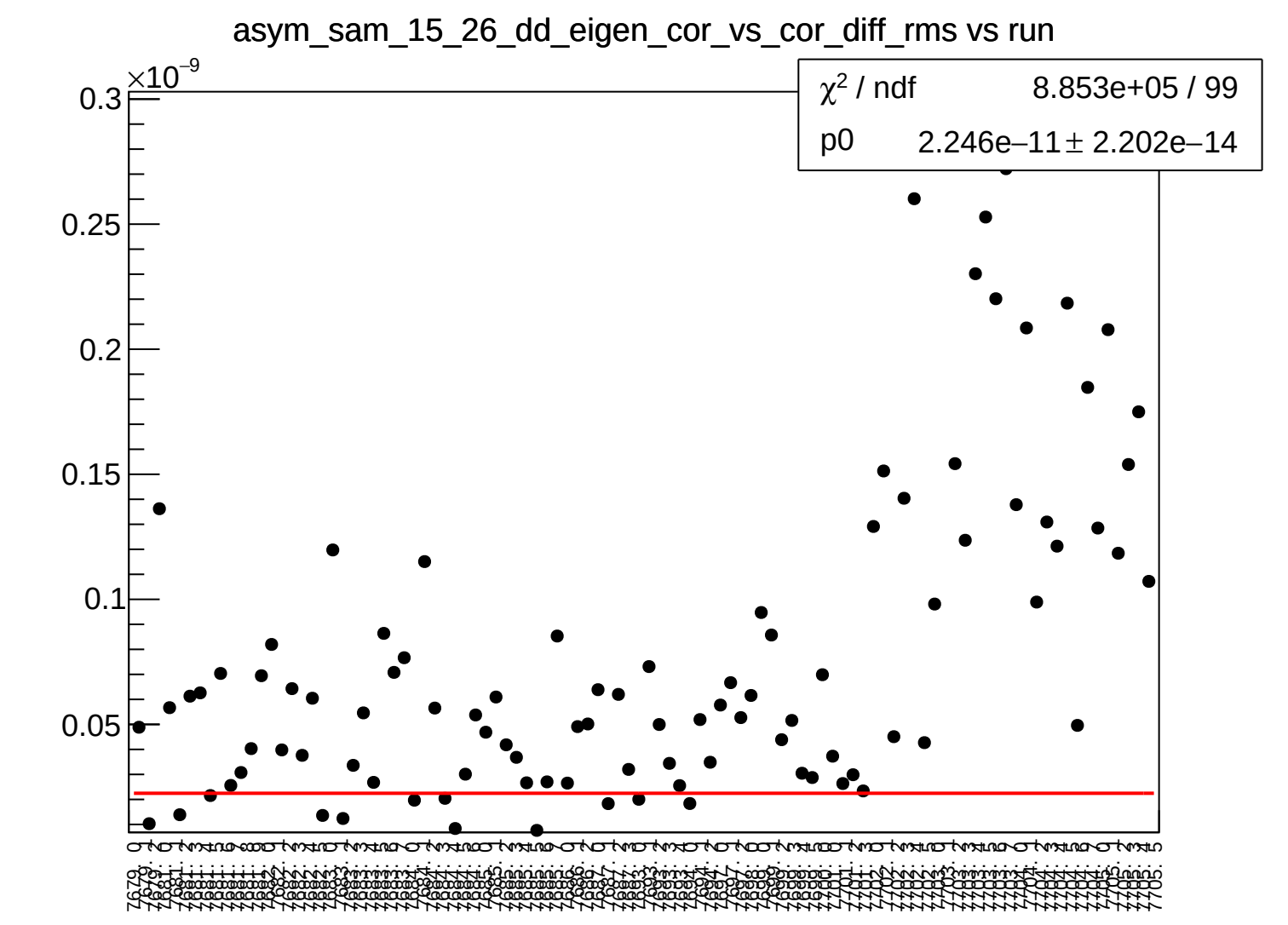

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 7.329e+04 / 99
p0 40.02 ± 0.02941
250
200
150
100
50

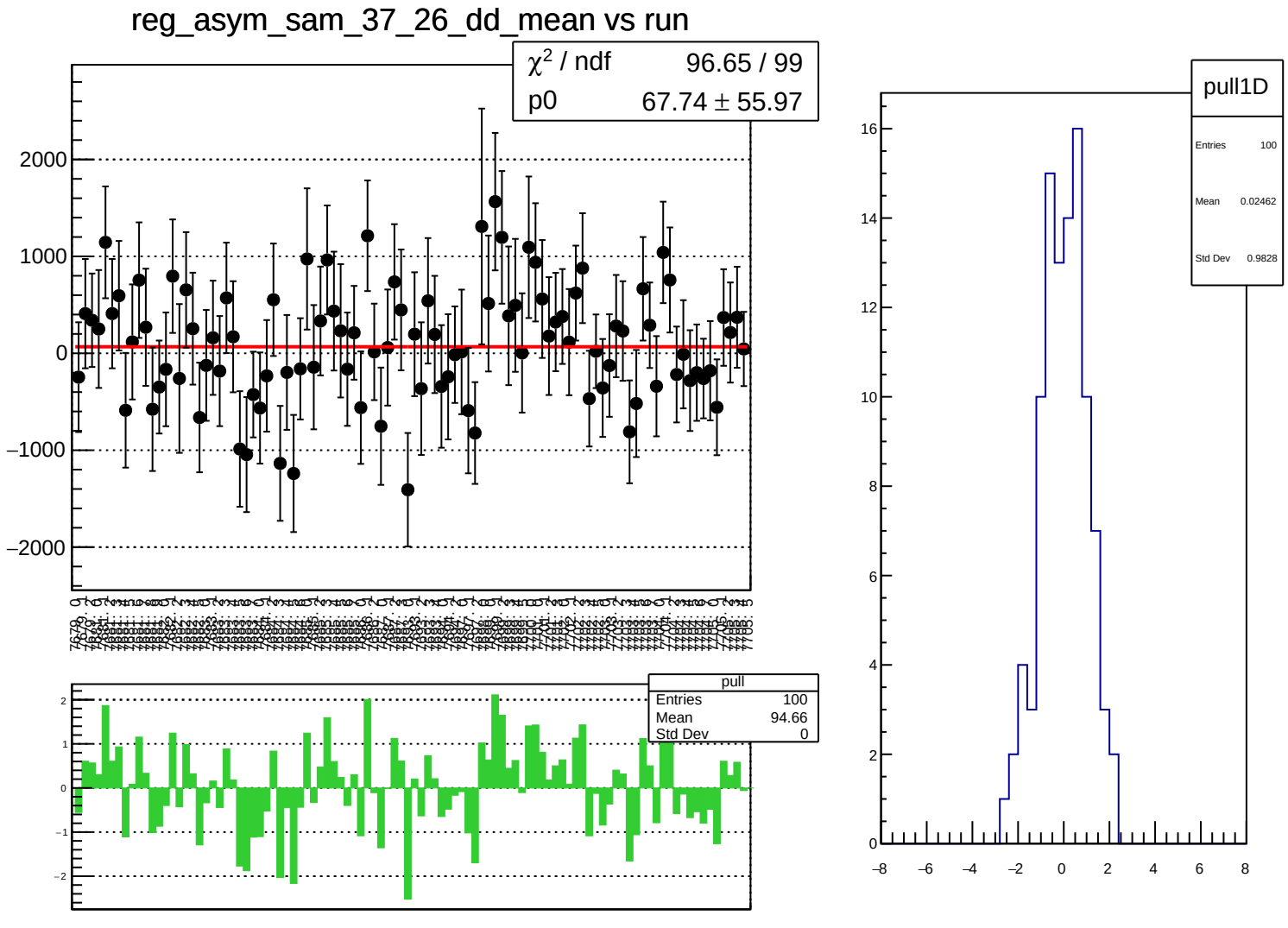

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.7 / 99
p0 0.001418 ± 0.04159
pull
Entries 100
Mean 85.03
Std Dev 58.79
pull1D
Entries 100
Mean 0.009447
Std Dev 1.033

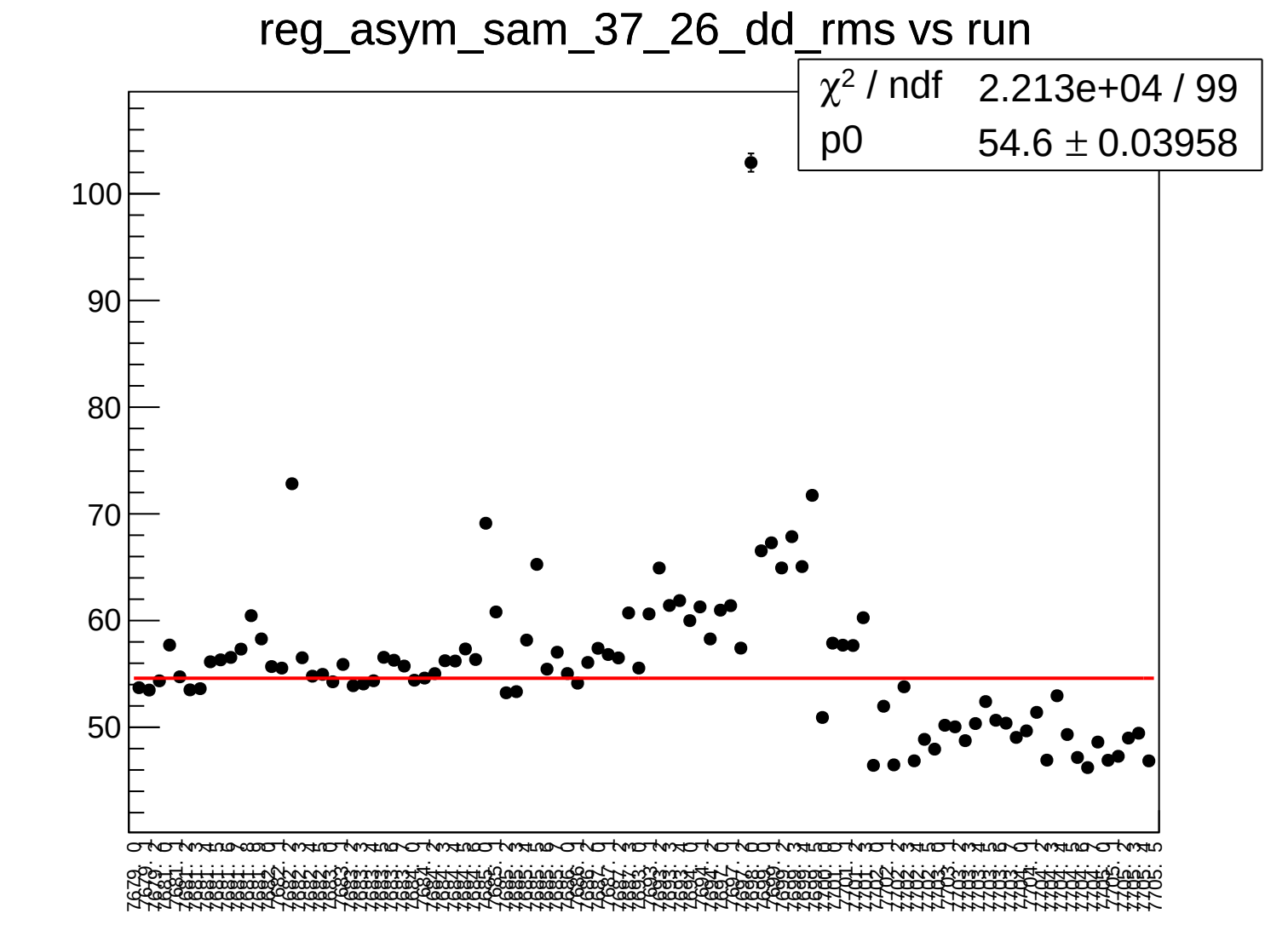

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.329e+04 / 99
p0 40.02 ± 0.02941
250
200
150
100
50

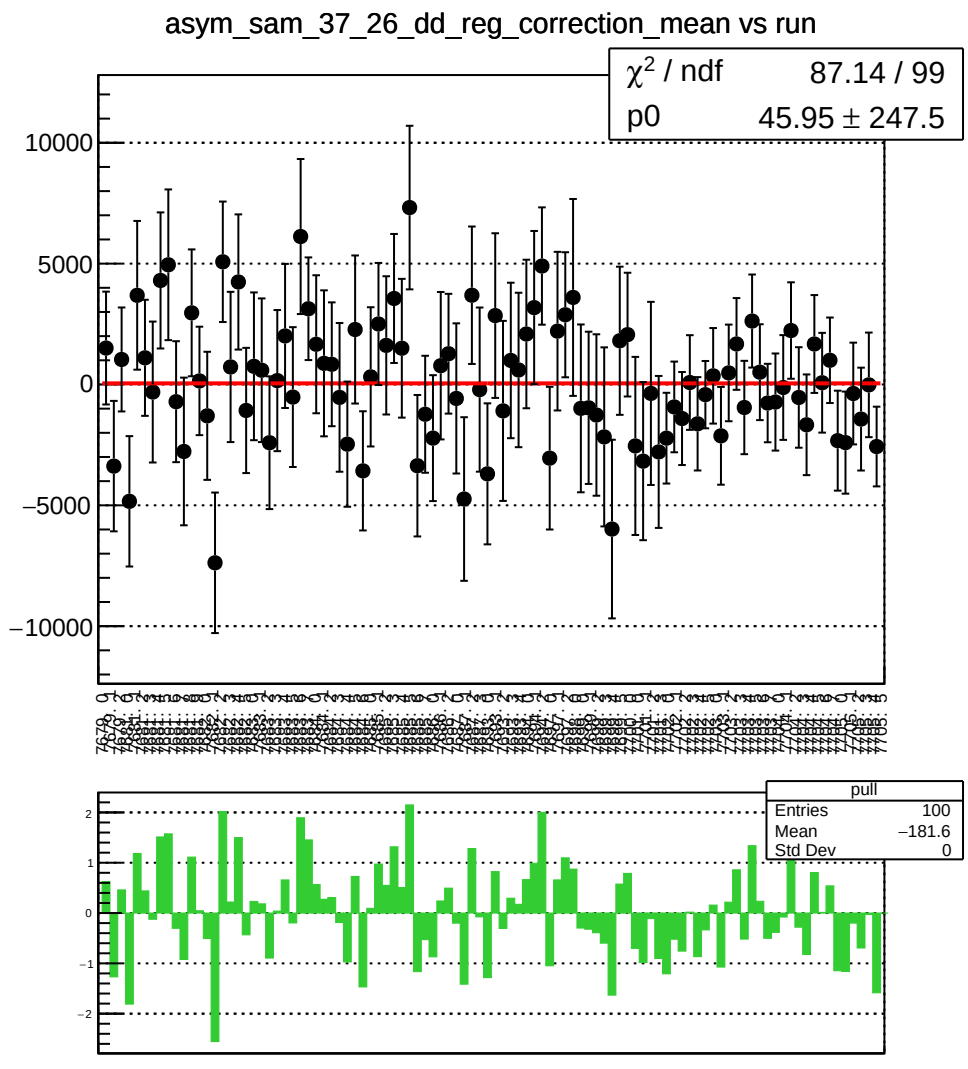

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.2 / 99
p0 3.2e−14 ± 3.114e−14
pull
Entries 100
Mean 15.26
Std Dev 3.986

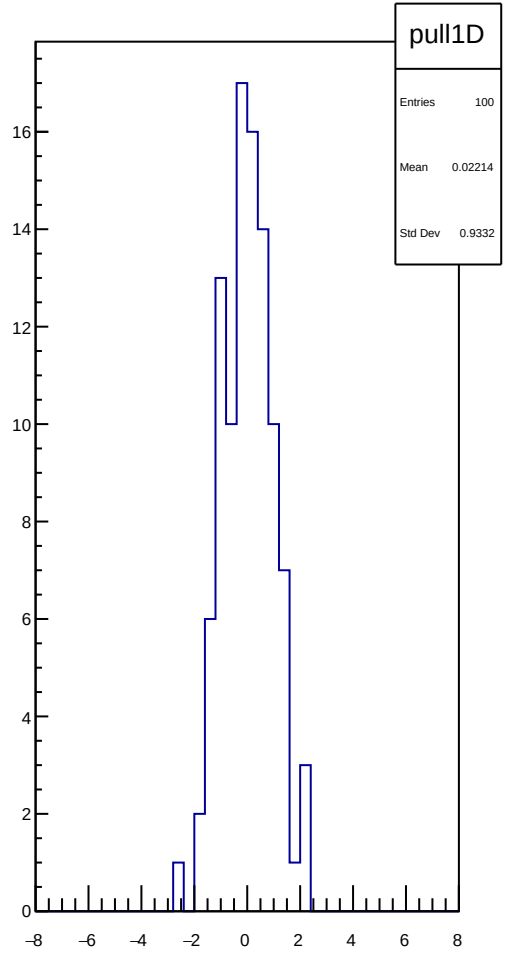

pull1D
Entries 100
Mean 0.04457
Std Dev 1

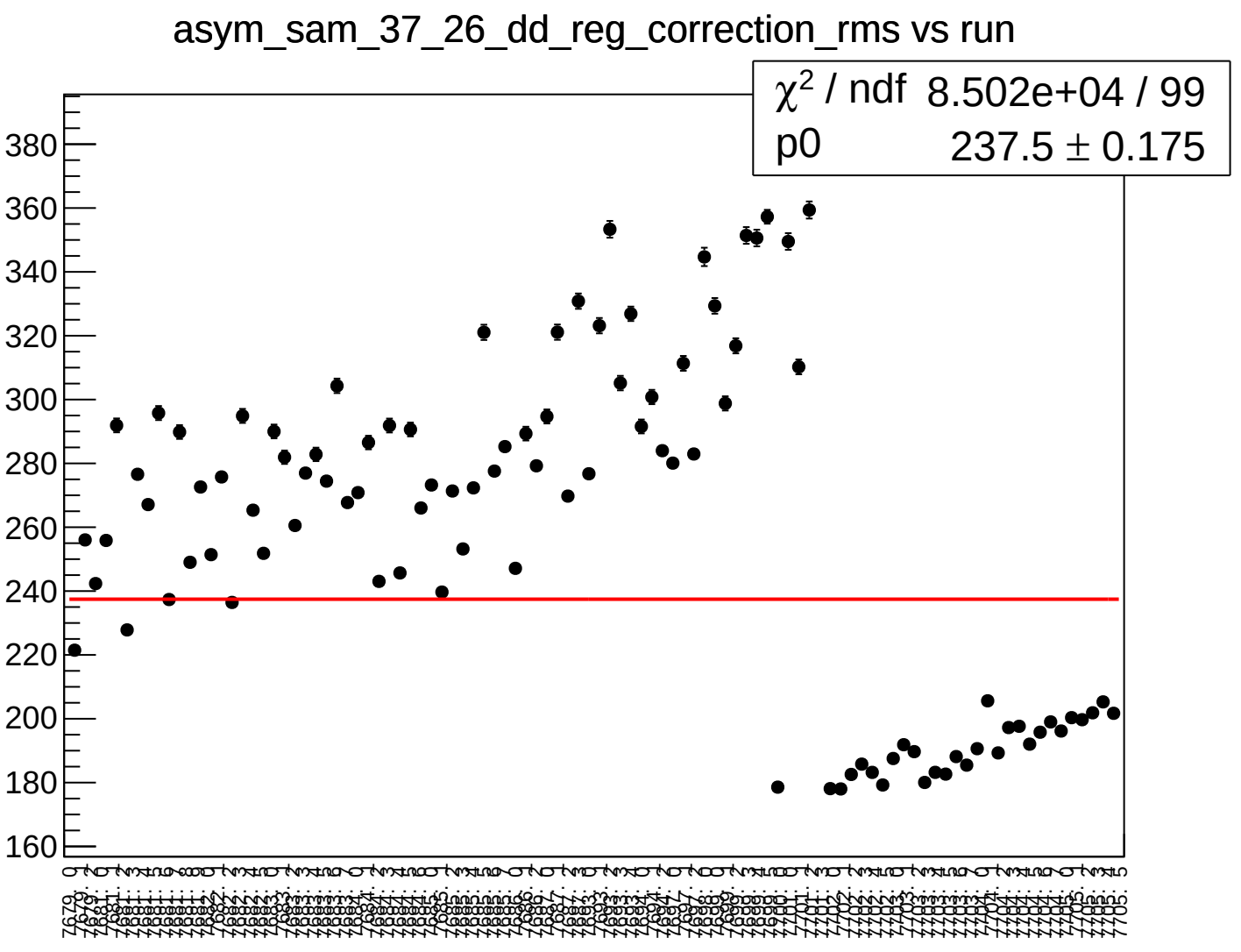

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 8.853e+05 / 99
p0 2.246e−11 ± 2.202e−14

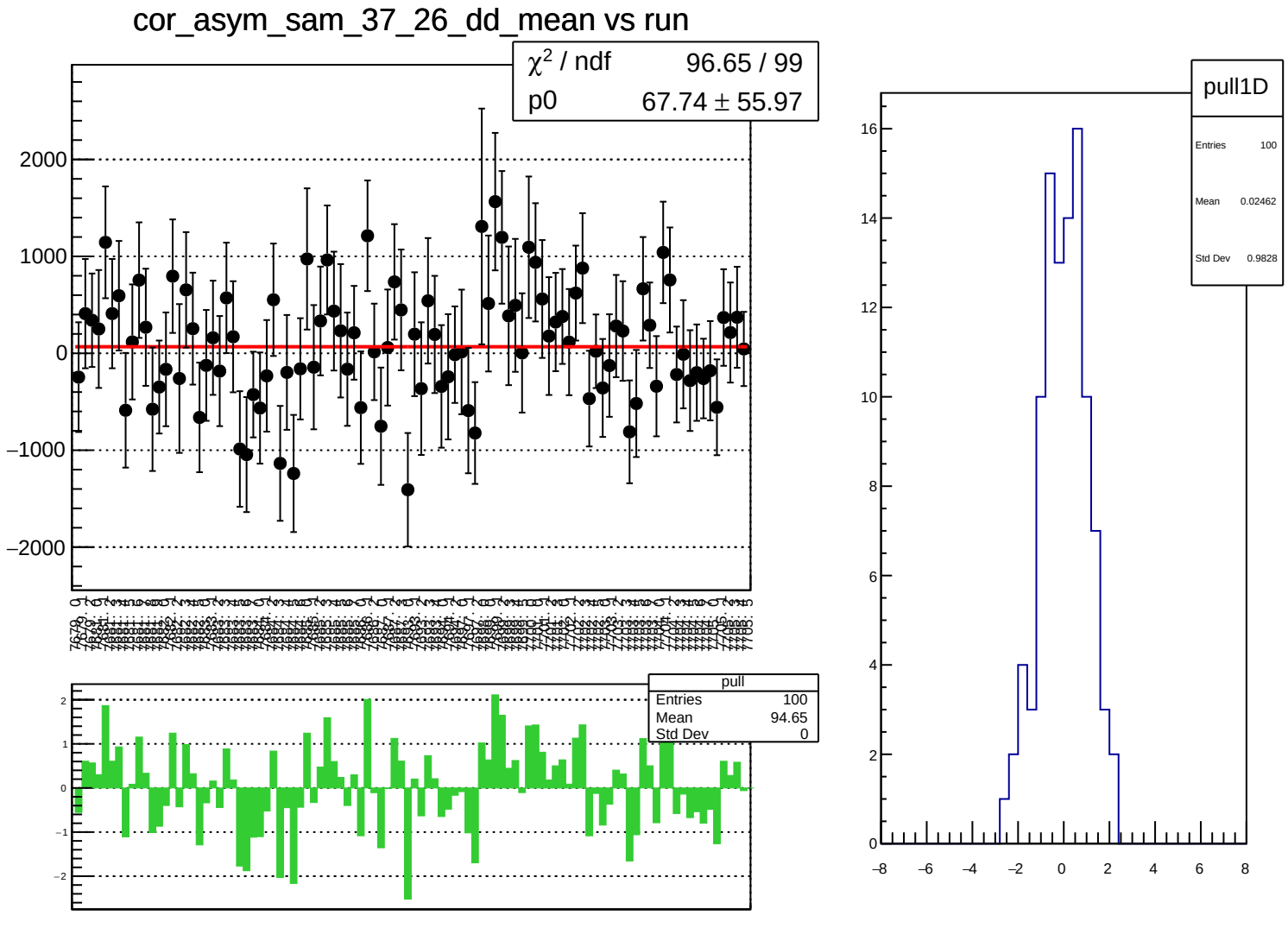

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 96.65 / 99
p0 67.74 ± 55.97
2000
1000
0
−1000
−2000
pull
Entries 100
Mean 94.66
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.02462
Std Dev 0.9828
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

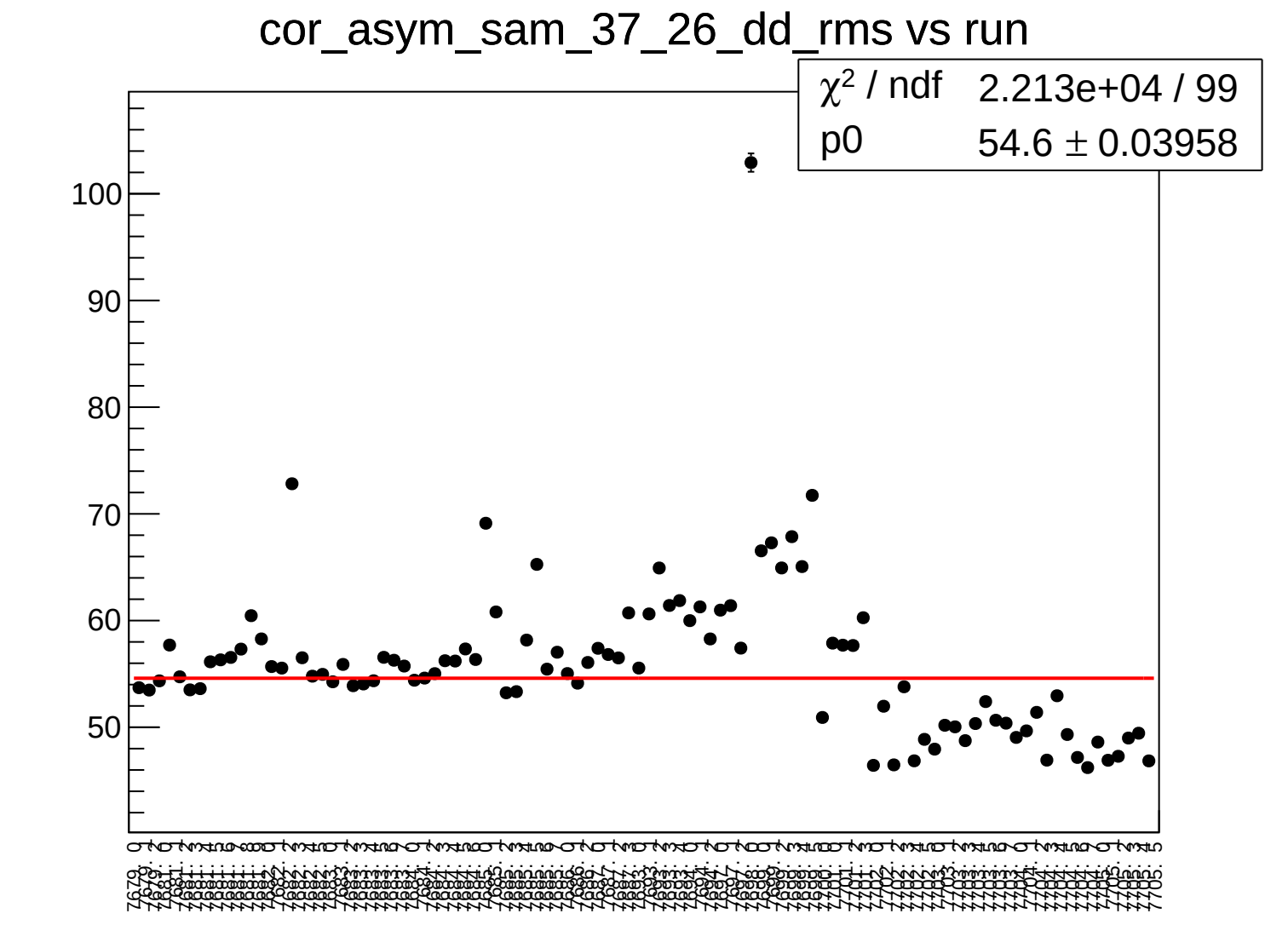

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 2.213e+04 / 99
p0 54.6 ± 0.03958
100
90
80
70
60
50

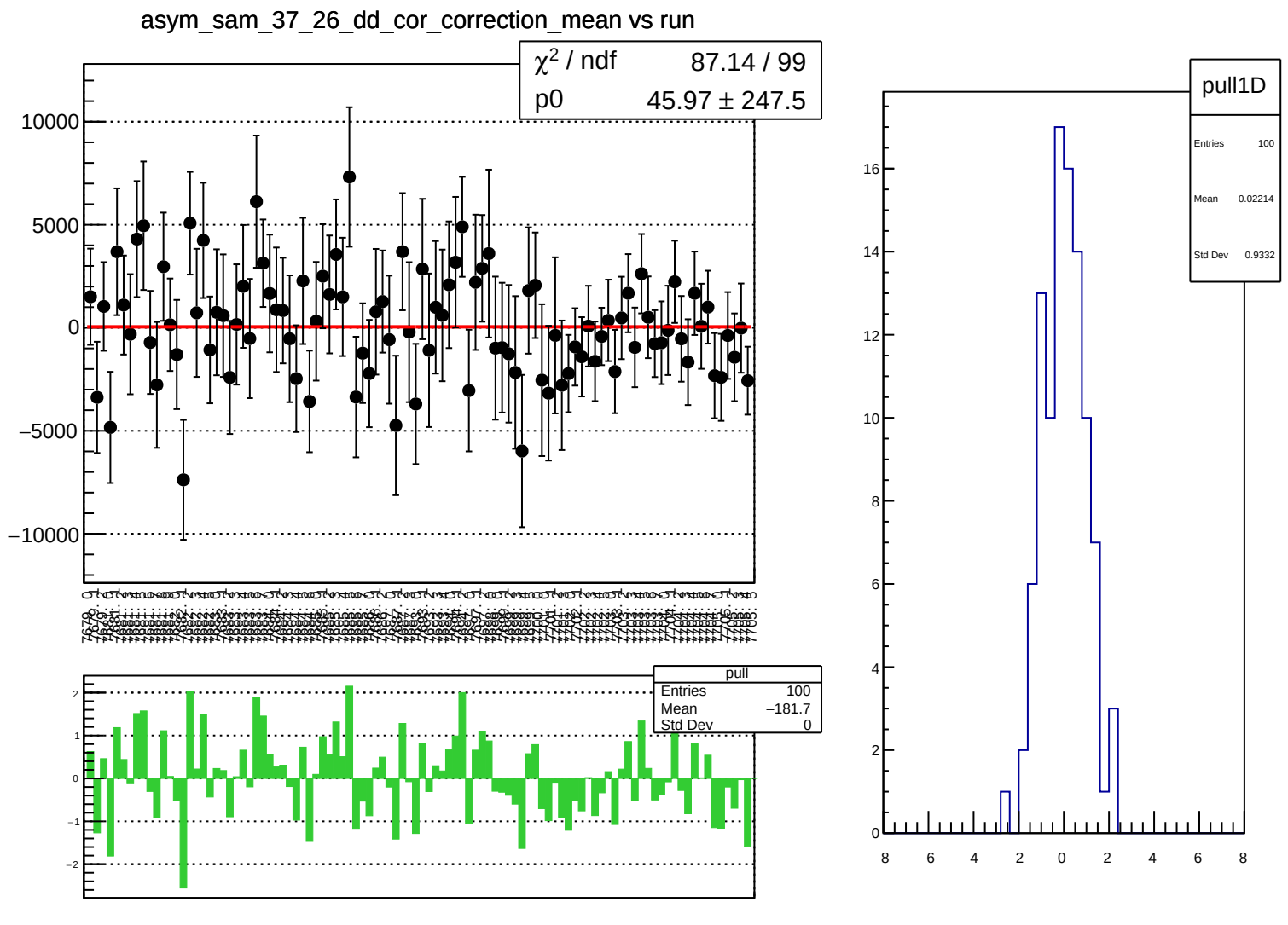

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 87.14 / 99
p0 45.95 ± 247.5
10000
5000
0
−5000
−10000
pull
Entries 100
Mean −181.6
Std Dev 0
2
1
0
−1
−2

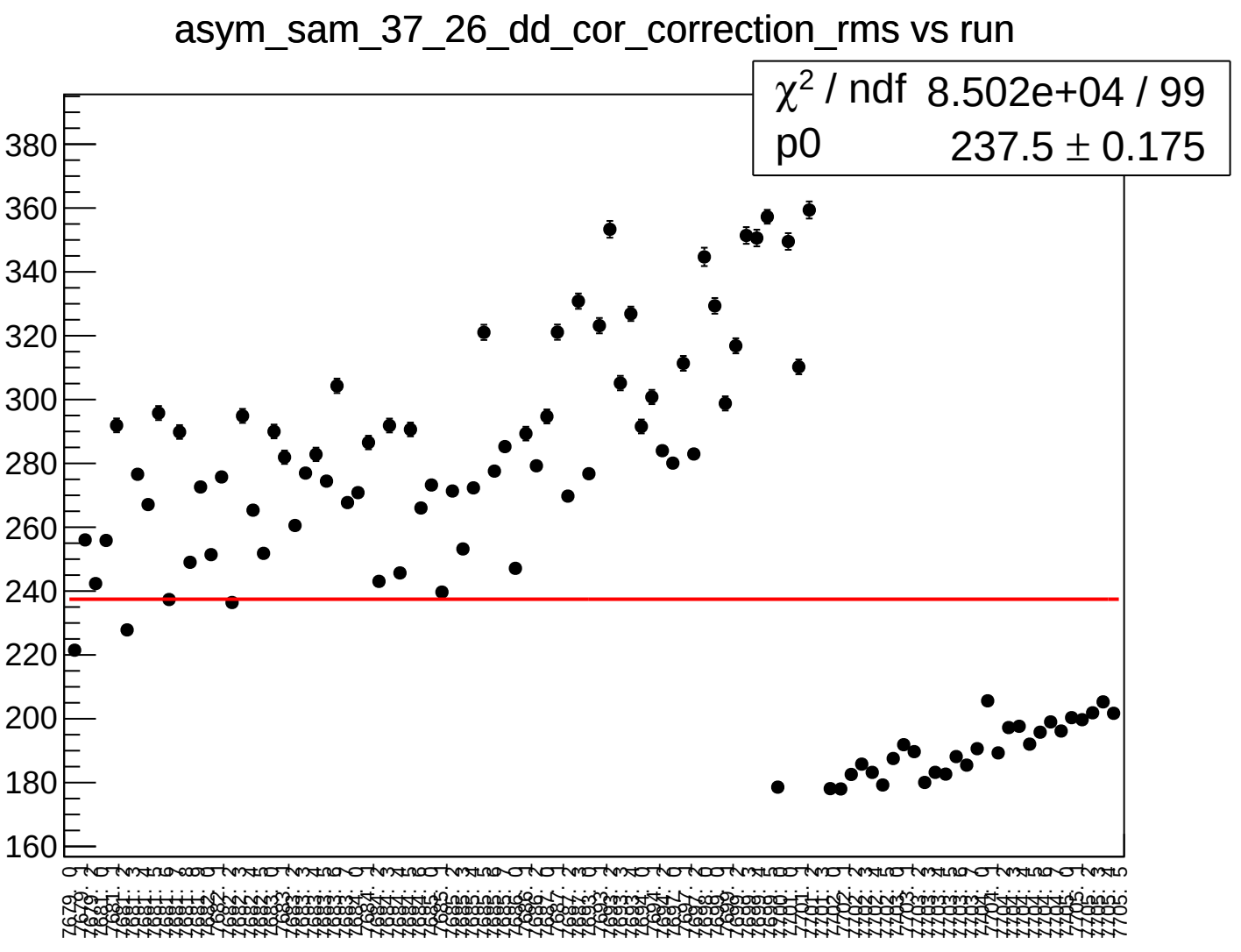

pull1D
Entries 100
Mean 0.02214
Std Dev 0.9332
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

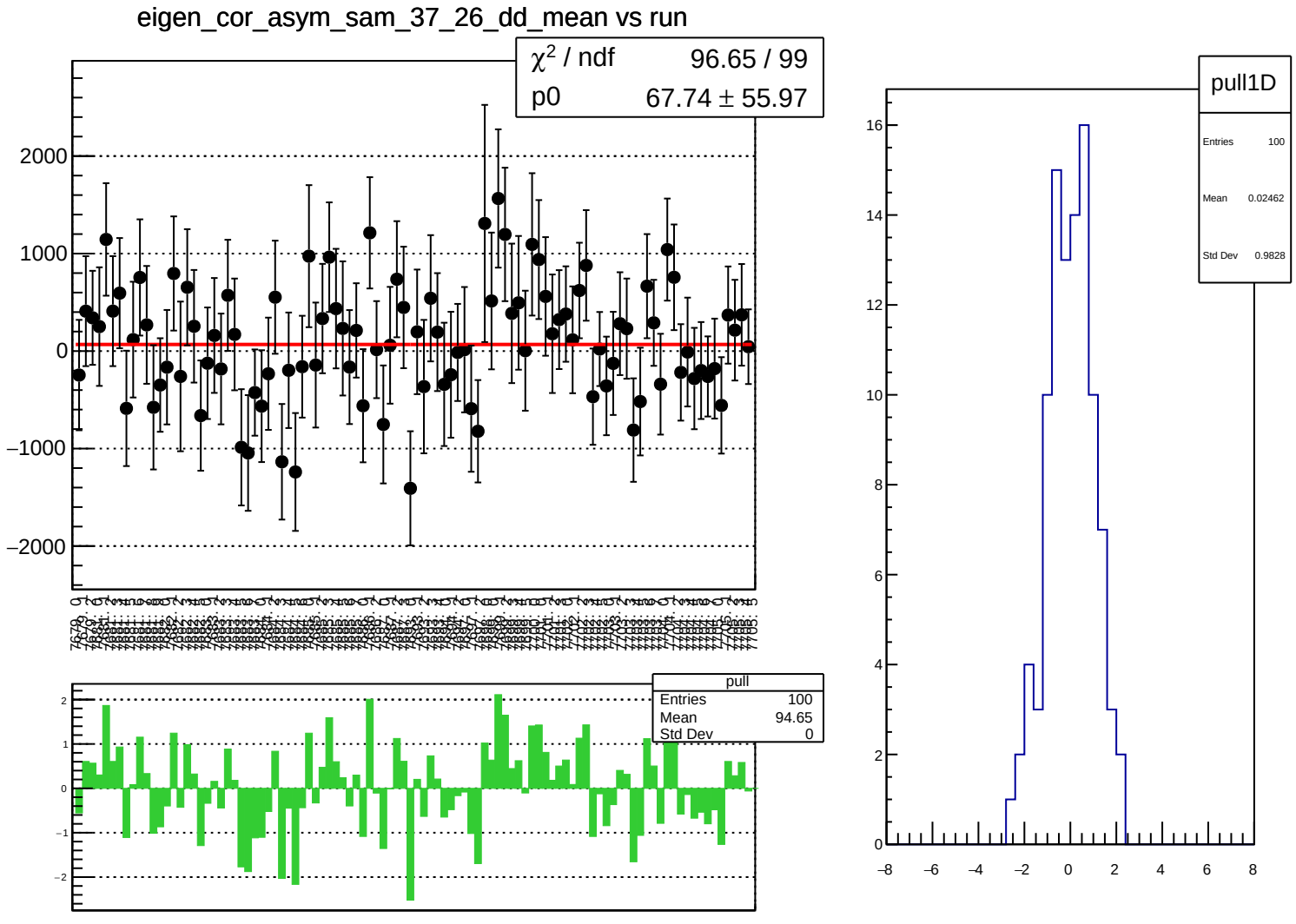

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 8.502e+04 / 99
p0 237.5 ± 0.175
380
360
340
320
300
280
260
240
220
200
180
160

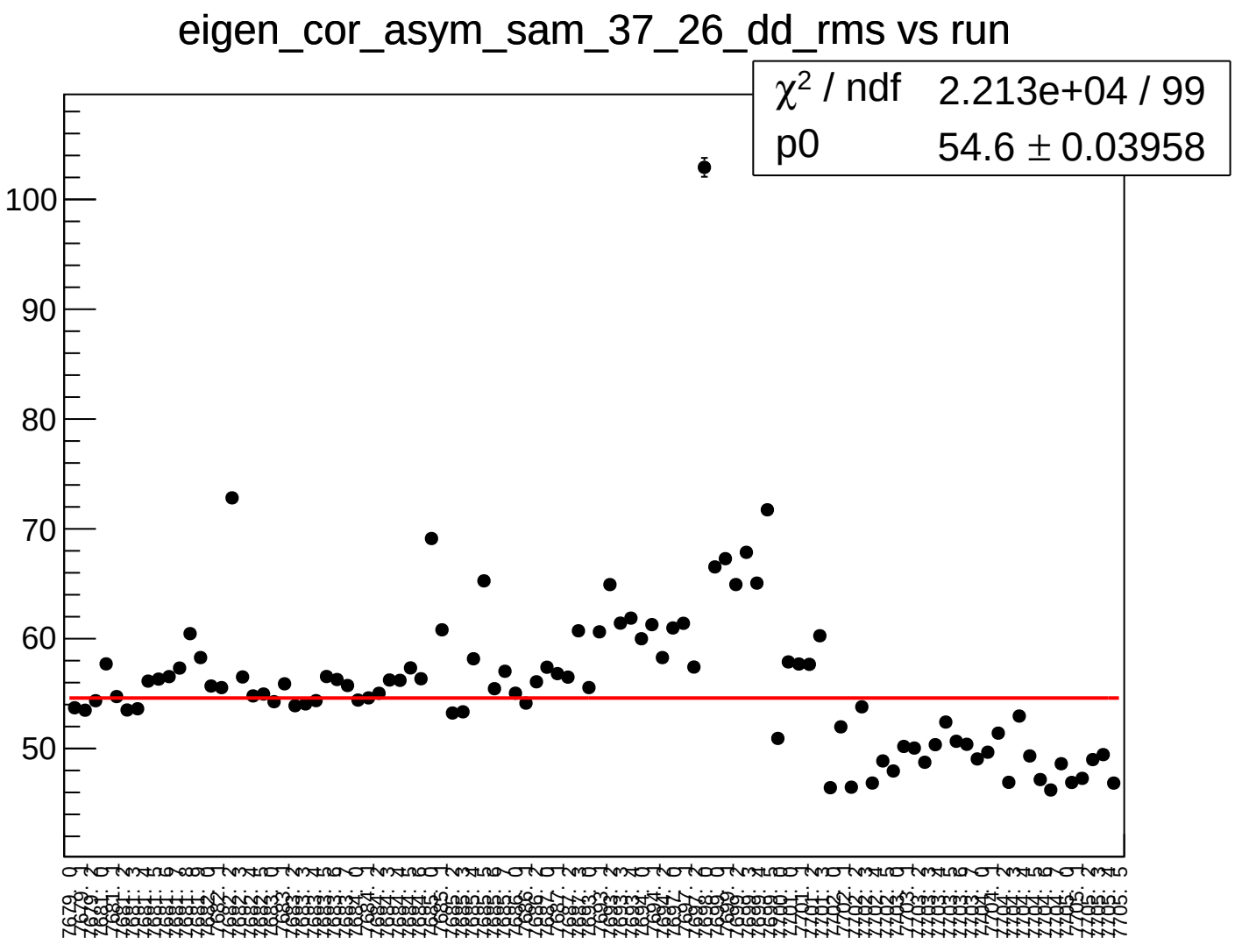

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 96.65 / 99
p0 67.74 ± 55.97
2000
1000
0
−1000
−2000
pull
Entries 100
Mean 94.65
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.02462
Std Dev 0.9828
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

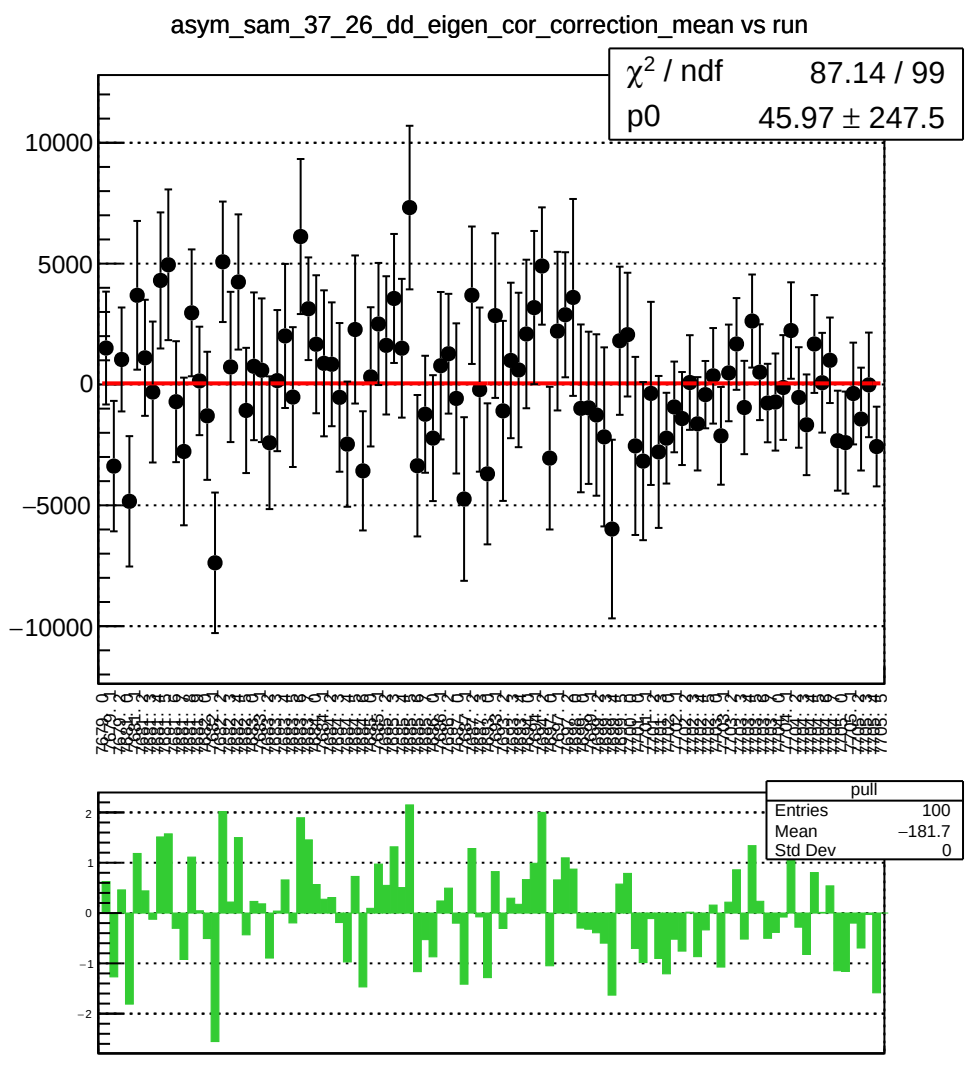

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 2.213e+04 / 99
p0 54.6 ± 0.03958
100
90
80
70
60
50

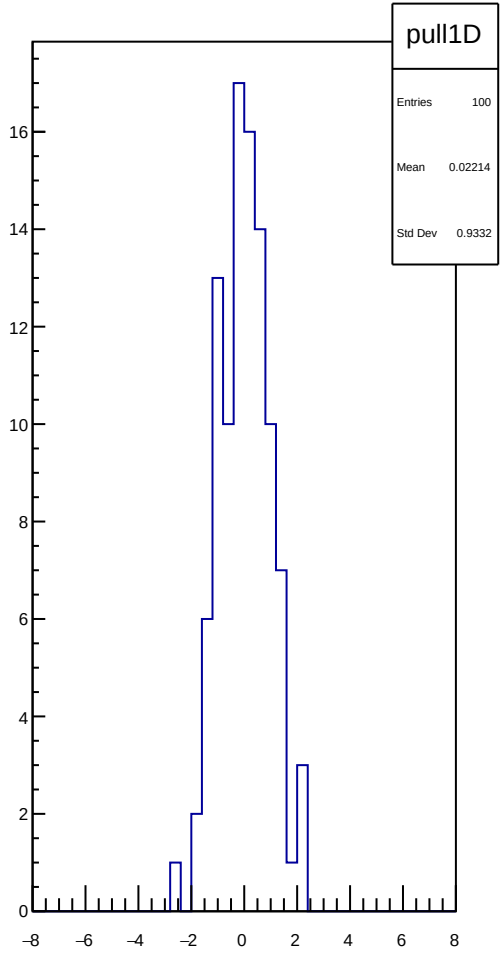

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 87.14 / 99
p0 45.97 ± 247.5
10000
5000
0
−5000
−10000
pull
Entries 100
Mean −181.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.02214
Std Dev 0.9332
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

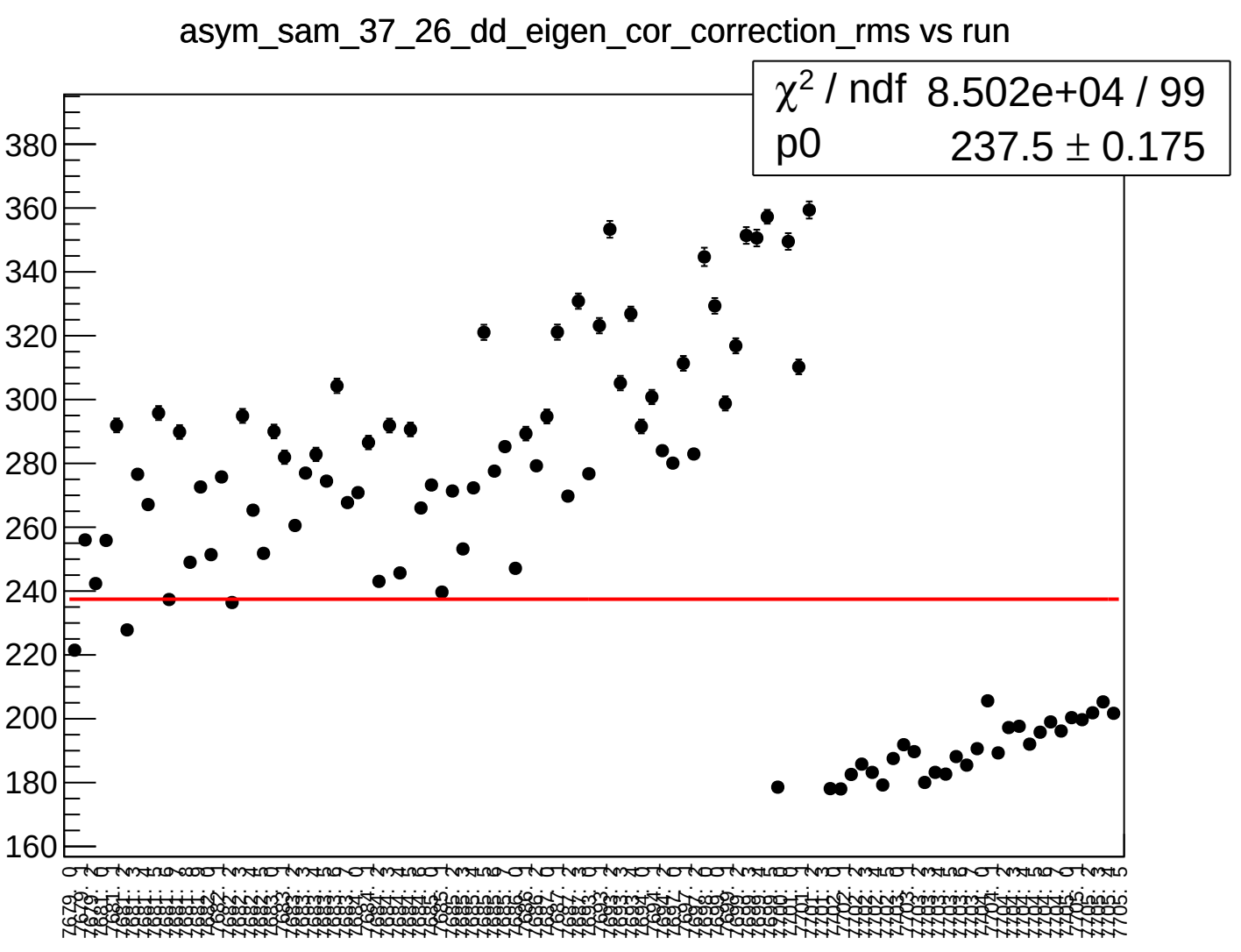

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 8.502e+04 / 99
p0 237.5 ± 0.175
380
360
340
320
300
280
260
240
220
200
180
160

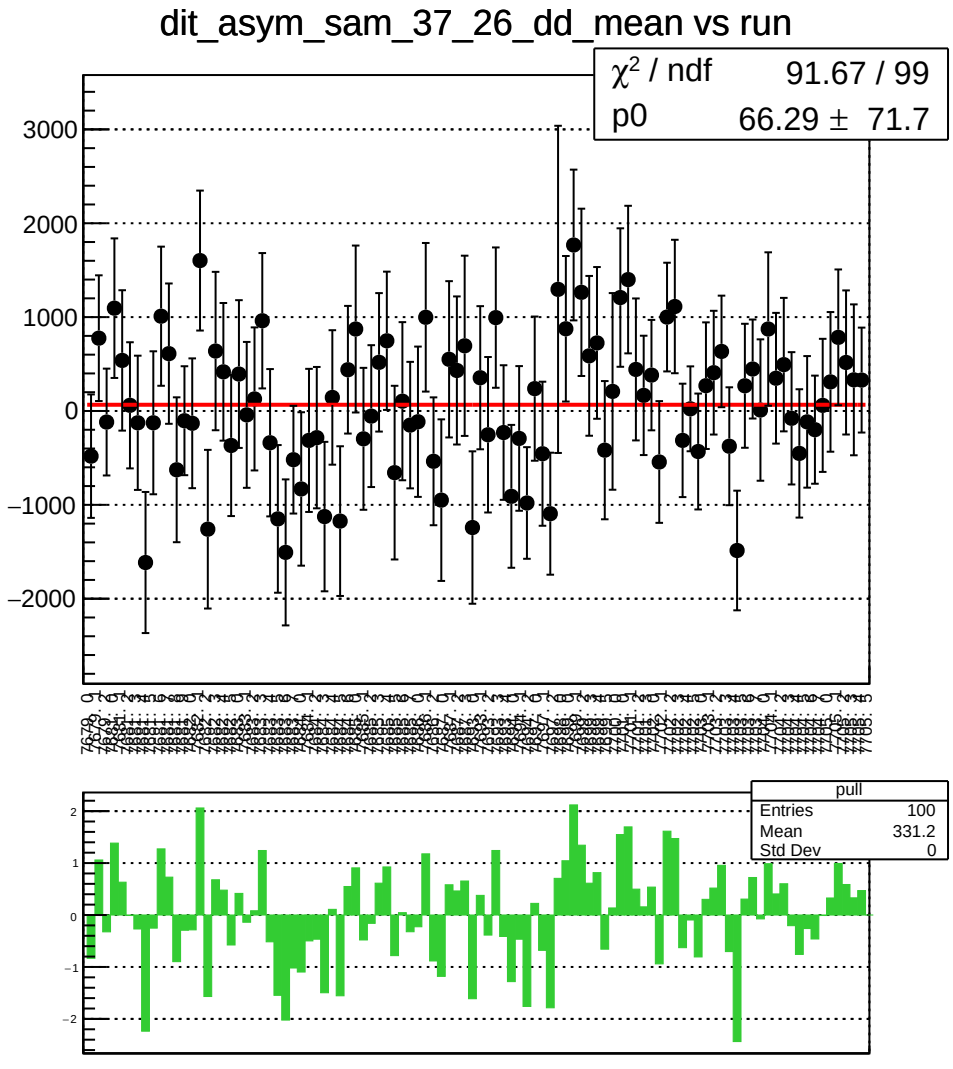

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 96.65 / 99
p0 67.74 ± 55.97
2000
1000
0
−1000
−2000
pull
Entries 100
Mean 94.65
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.02462
Std Dev 0.9828
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

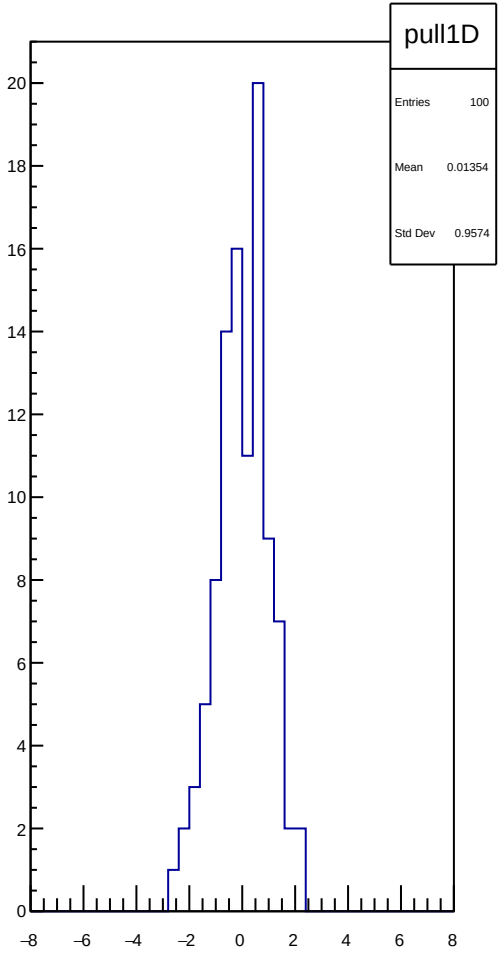

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 2.213e+04 / 99
p0 54.6 ± 0.03958
100
90
80
70
60
50

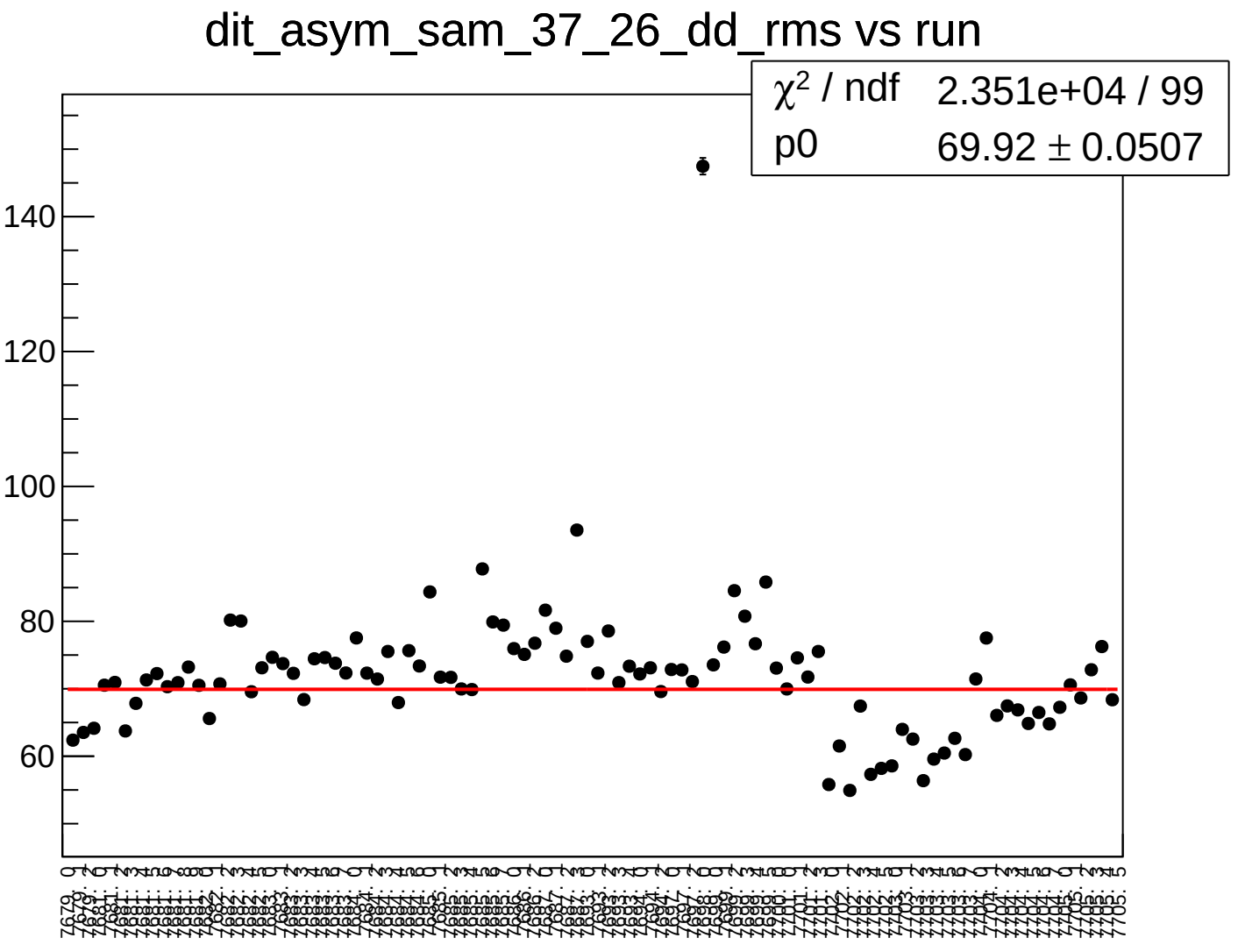

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 87.14 / 99
p0 45.97 ± 247.5
10000
5000
0
−5000
−10000
pull
Entries 100
Mean −181.7
Std Dev 0
2
1
0
−1
−2

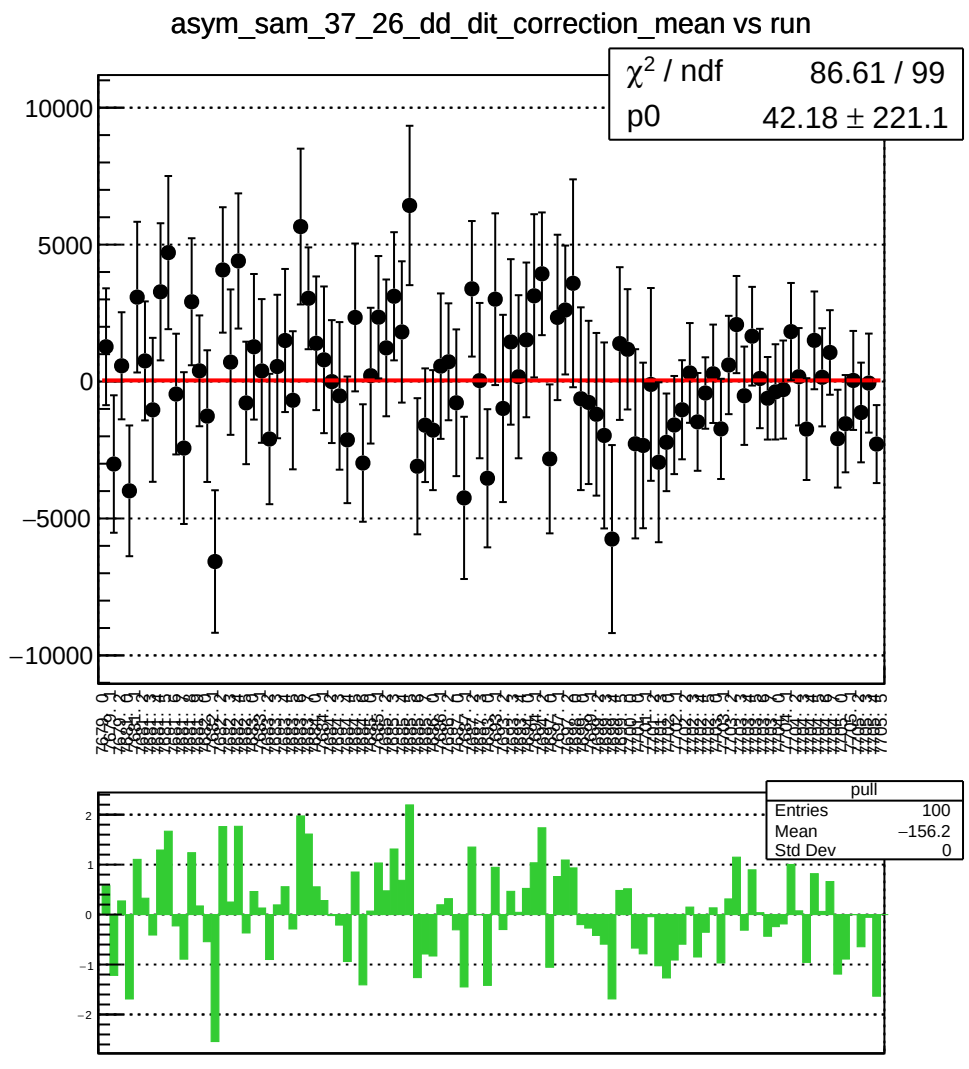

pull1D
Entries 100
Mean 0.02214
Std Dev 0.9332
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

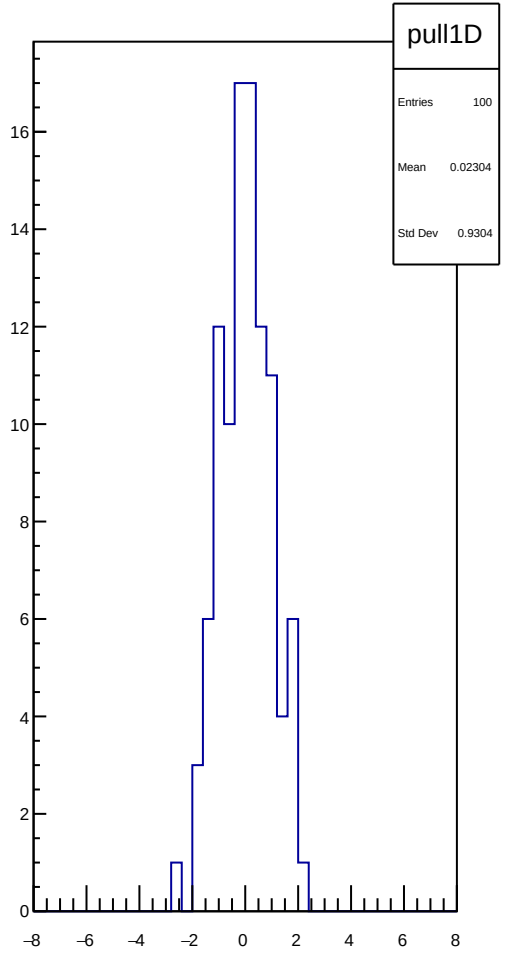

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 8.502e+04 / 99
p0 237.5 ± 0.175
380
360
340
320
300
280
260
240
220
200
180
160

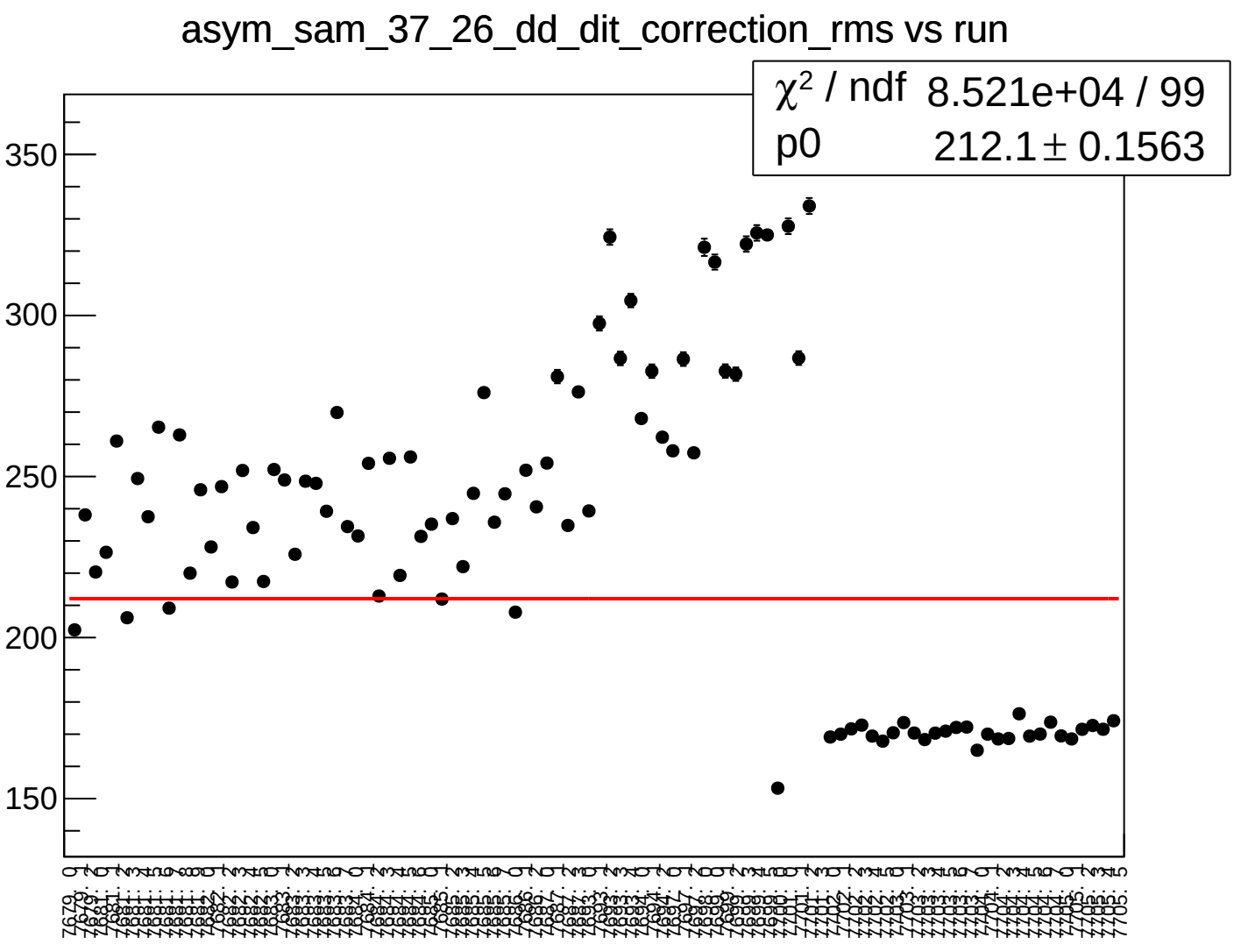

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 91.67 / 99
p0 66.29 ± 71.7
3000
2000
1000
0
−1000
−2000
pull
Entries 100
Mean 331.2
Std Dev 0
2
1
0
−1
−2

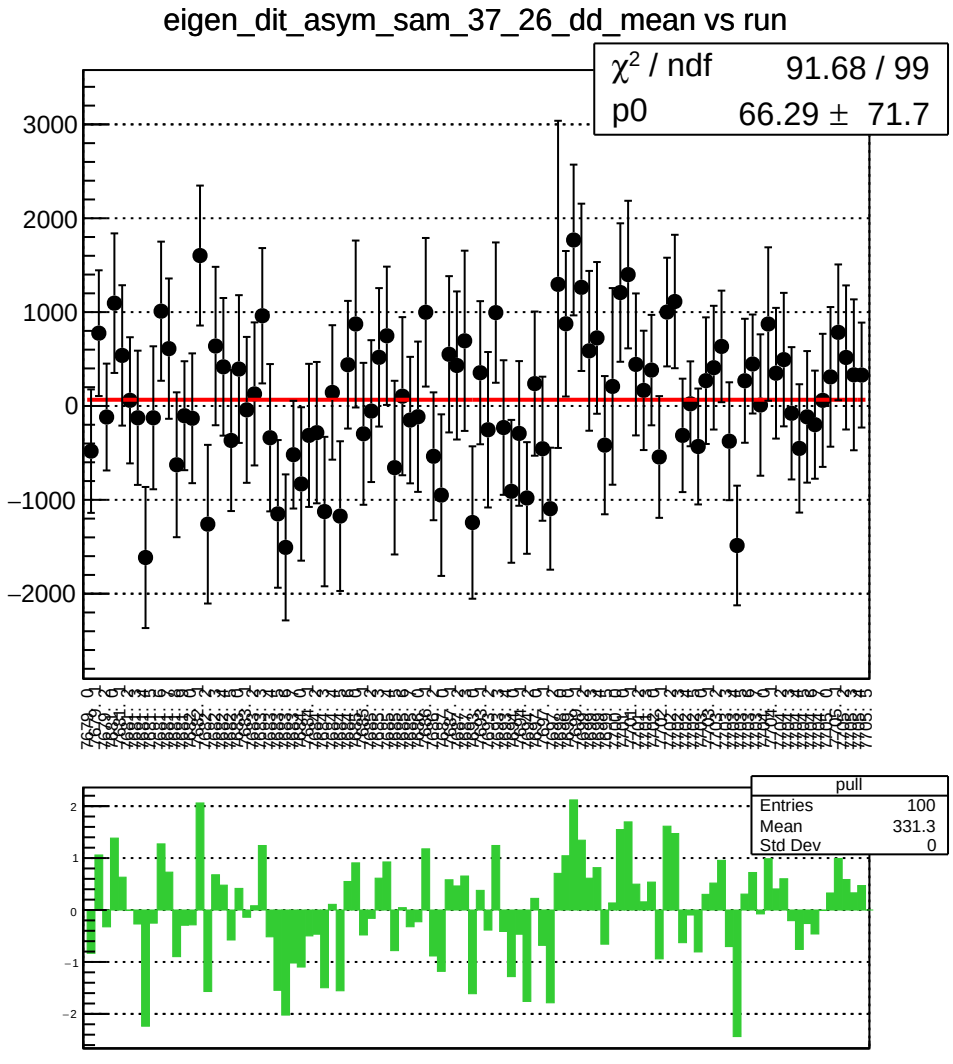

pull1D
Entries 100
Mean 0.01354
Std Dev 0.9574
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

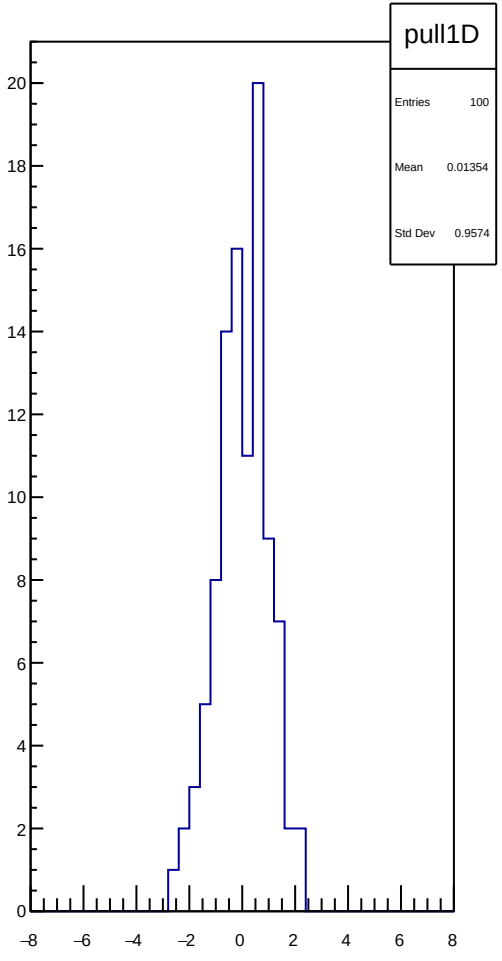

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 2.351e+04 / 99
p0 69.92 ± 0.0507
140
120
100
80
60

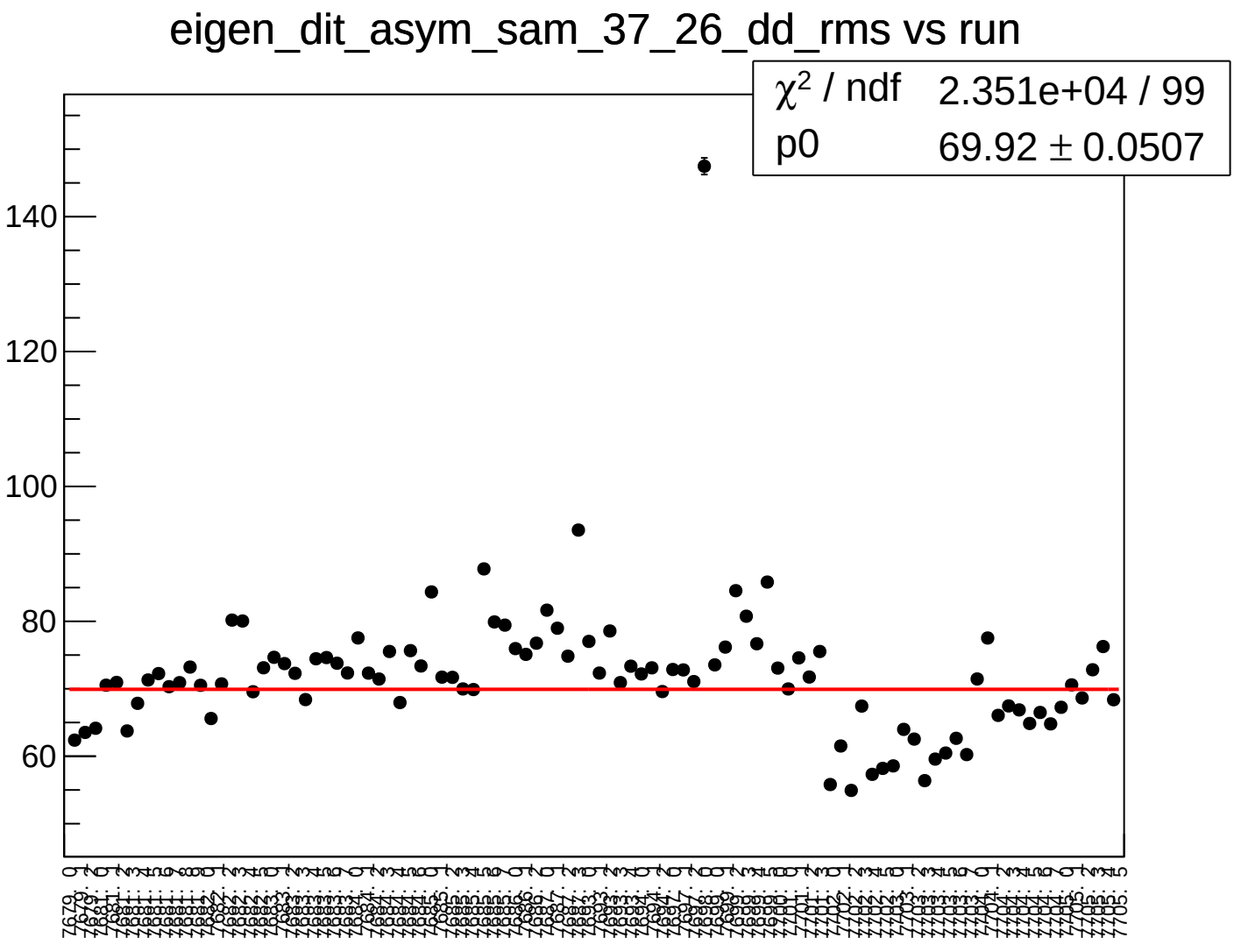

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 86.61 / 99
p0 42.18 ± 221.1
10000
5000
0
−5000
−10000
pull
Entries 100
Mean −156.2
Std Dev 0
2
1
0
−1
−2

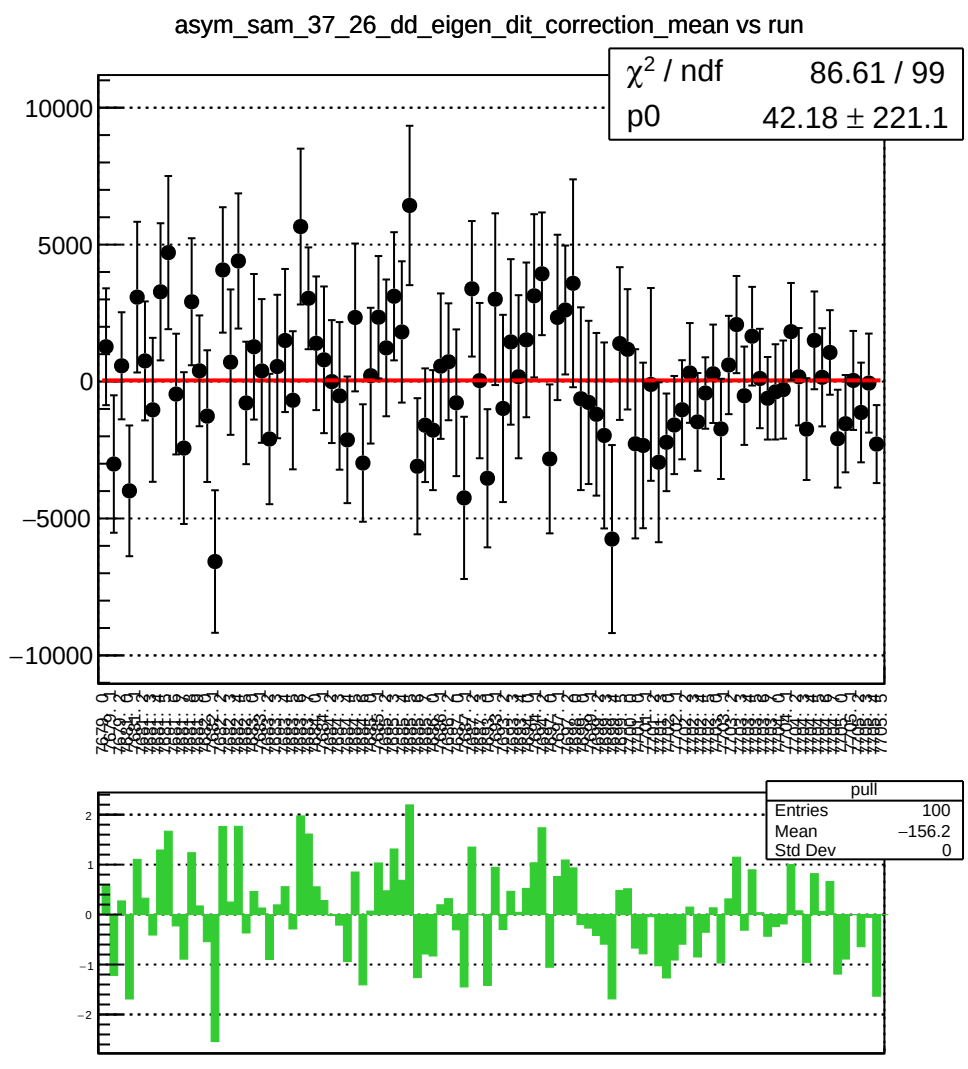

pull1D
Entries 100
Mean 0.02304
Std Dev 0.9304
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

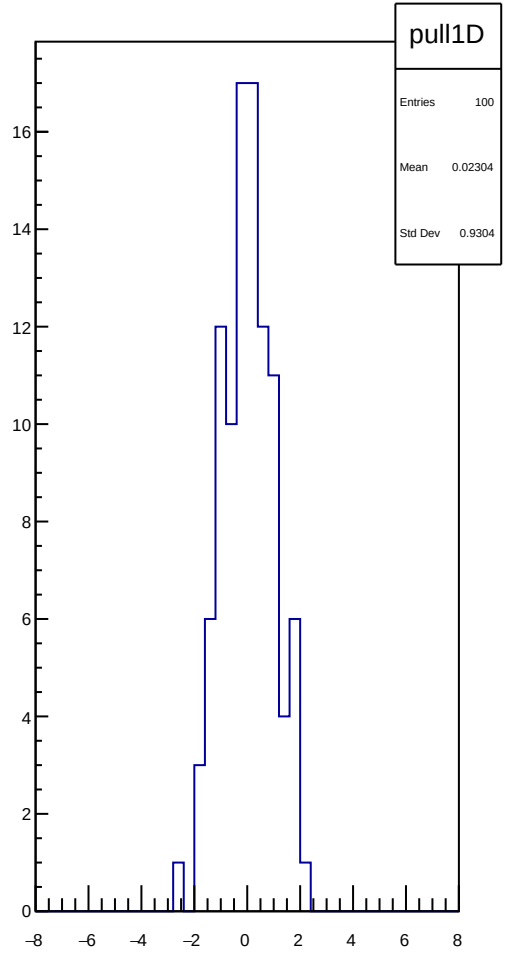

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 8.521e+04 / 99
p0 212.1 ± 0.1563
350
300
250
200
150


eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 91.68 / 99
p0 66.29 ± 71.7
3000
2000
1000
0
−1000
−2000
pull
Entries 100
Mean 331.3
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 100
Mean 0.01354
Std Dev 0.9574
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 2.351e+04 / 99
p0 69.92 ± 0.0507
140
120
100
80
60


asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 86.61 / 99
p0 42.18 ± 221.1
10000
5000
0
−5000
−10000
pull
Entries 100
Mean −156.2
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 100
Mean 0.02304
Std Dev 0.9304
16
14
12
10
8
6
4
2
0
−8
−6
−4
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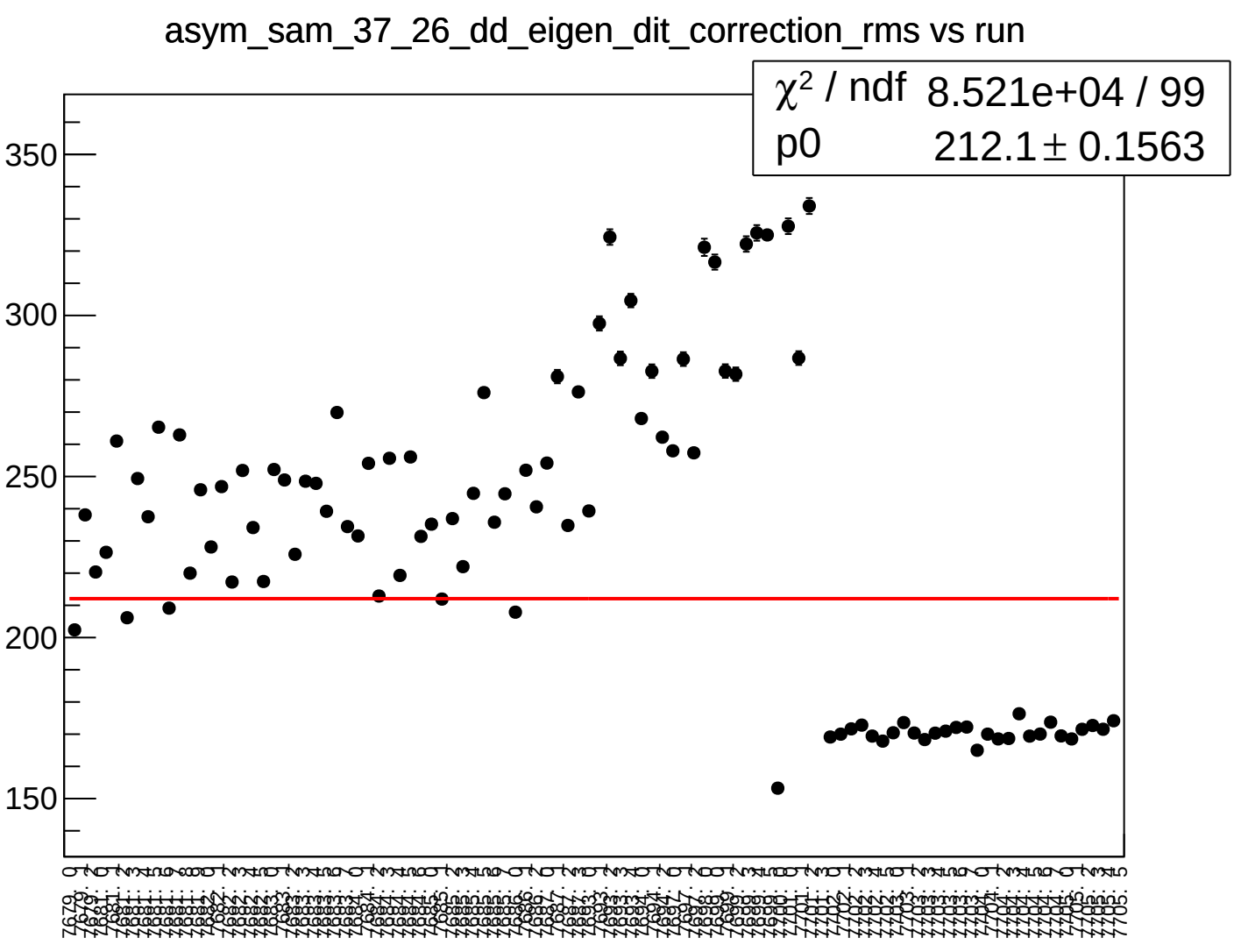
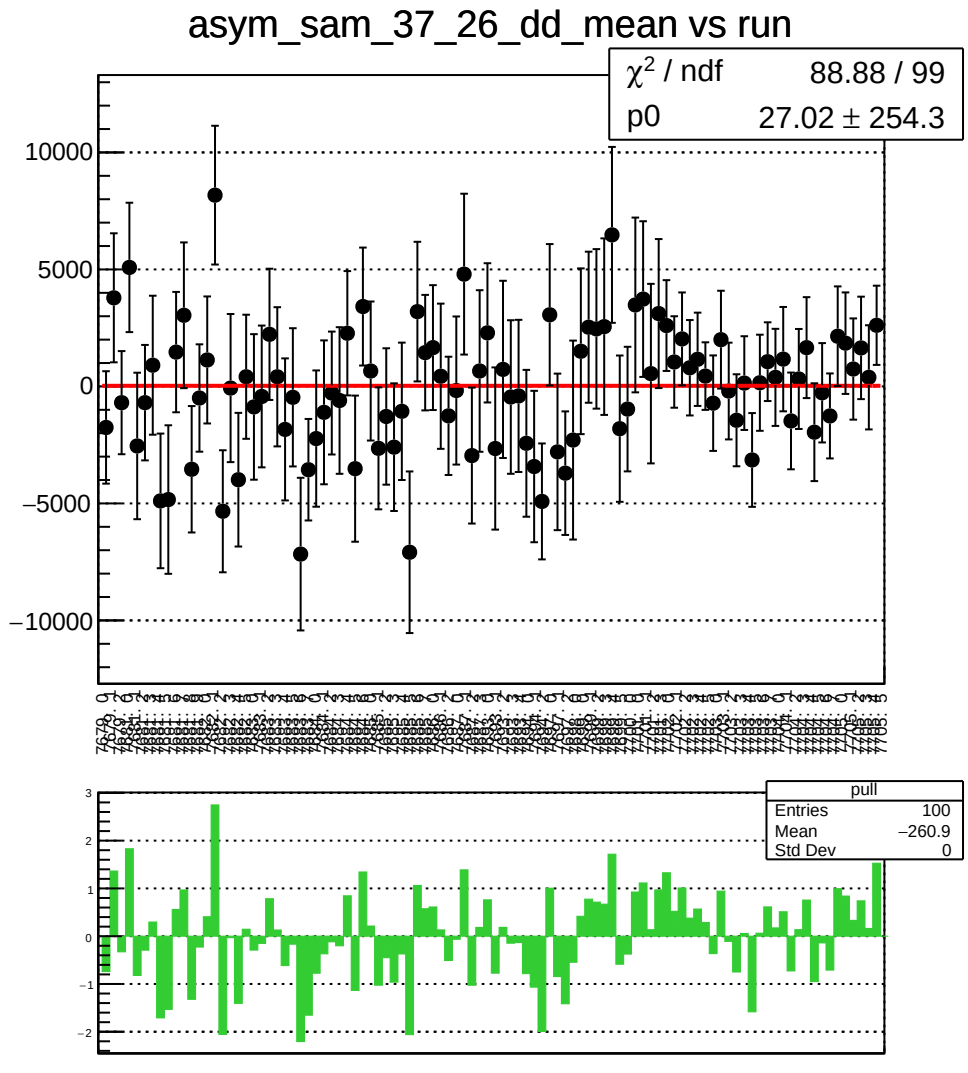
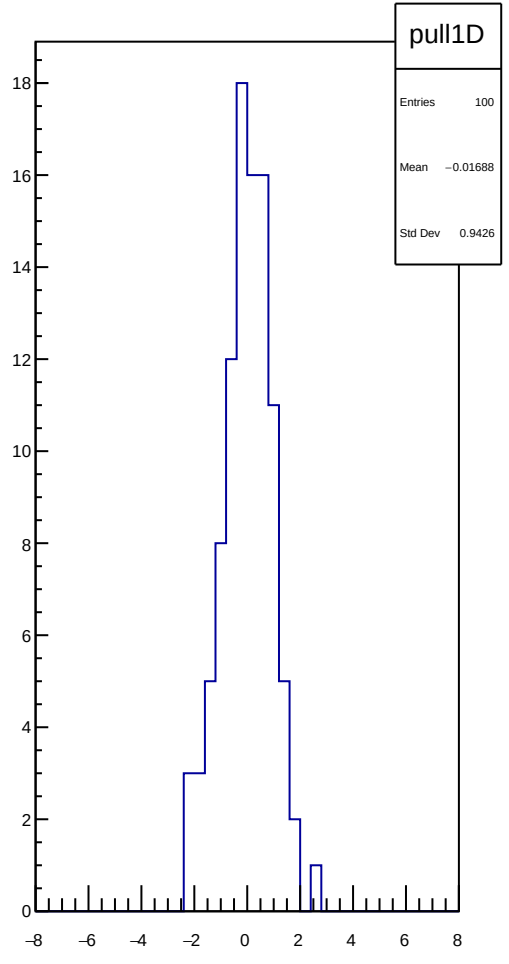
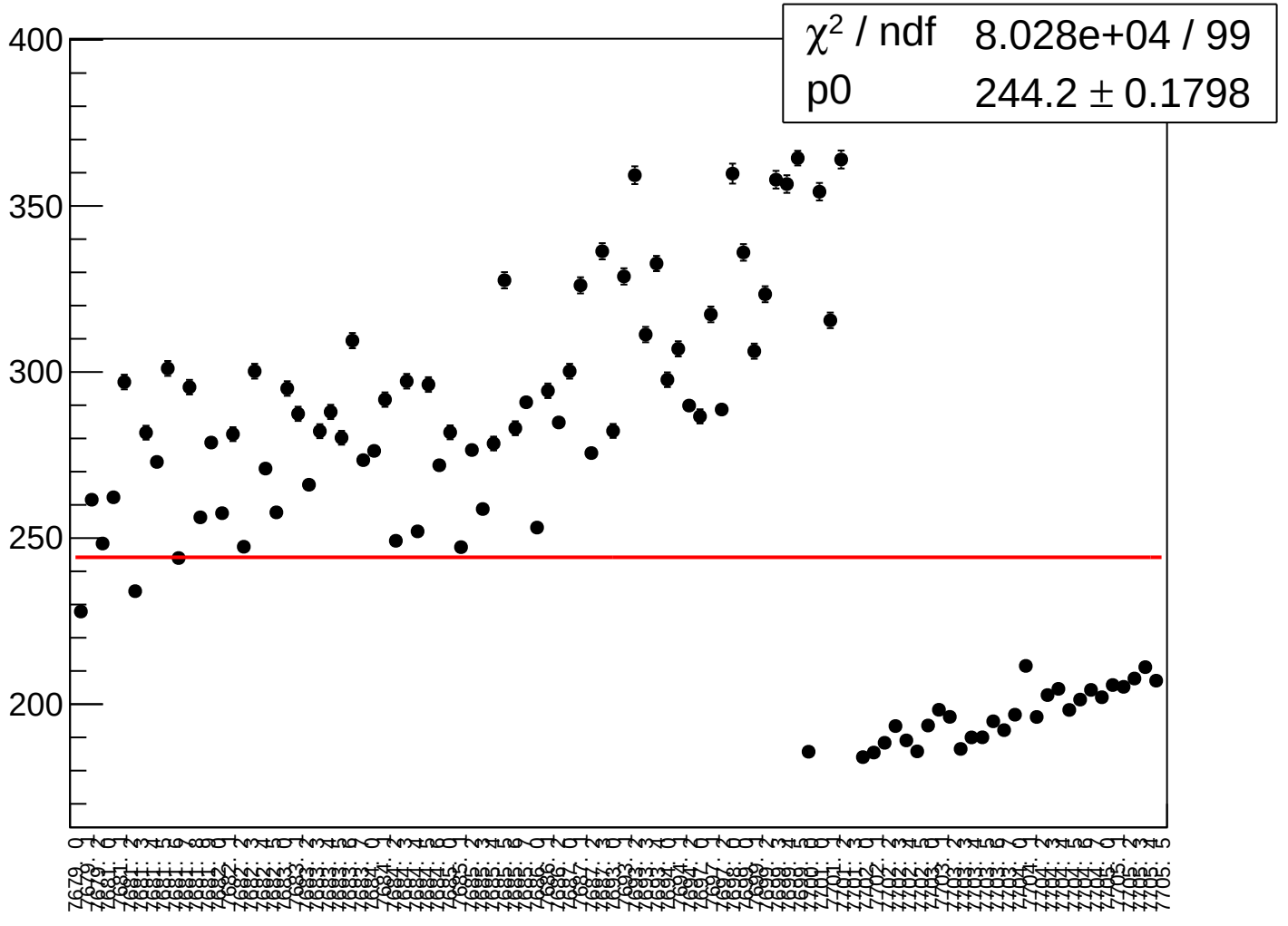
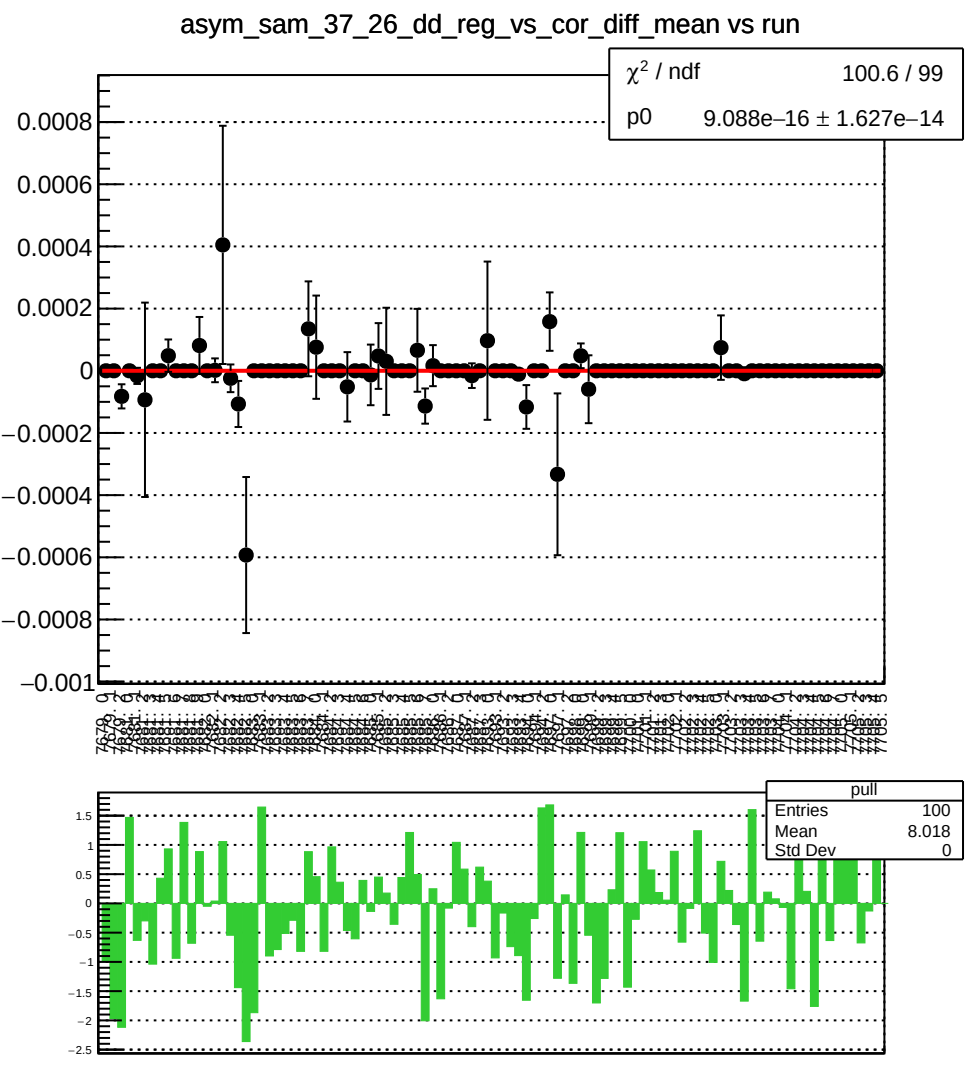
2
4
6
8

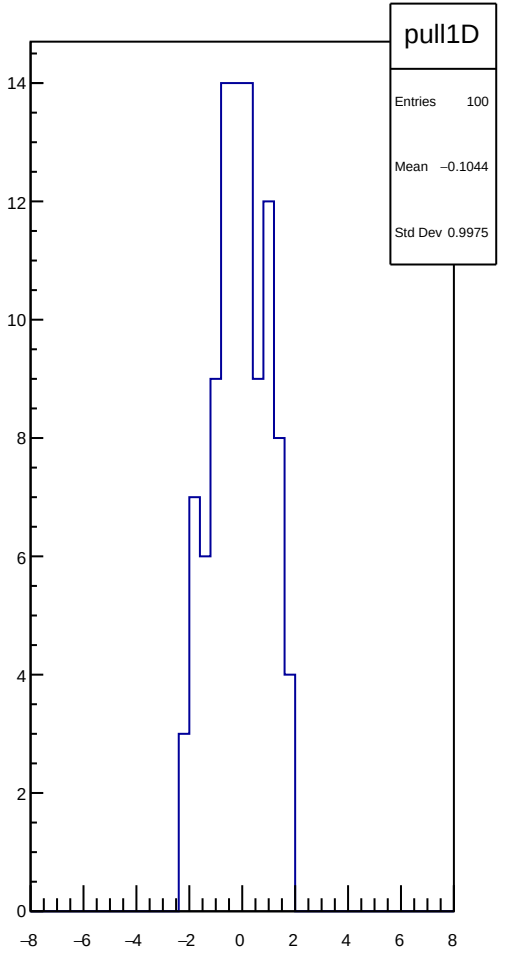

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 8.521e+04 / 99
p0 212.1 ± 0.1563
350
300
250
200
150

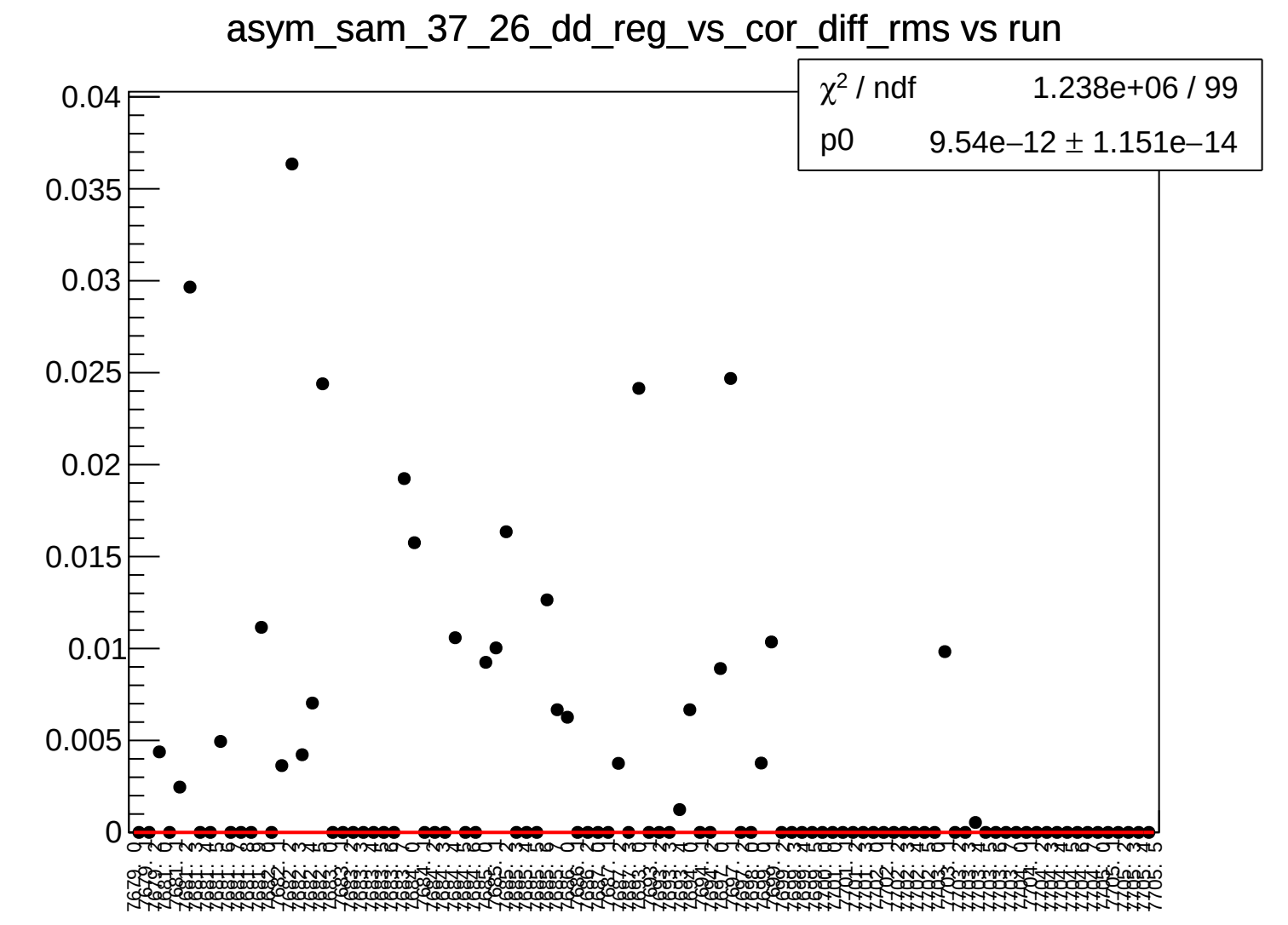

asym_sam_37_26_dd_mean vs run
χ² / ndf 88.88 / 99
p0 27.02 ± 254.3
10000
5000
0
−5000
−10000
pull
Entries 100
Mean −260.9
Std Dev 0
3
2
1
0
−1
−2

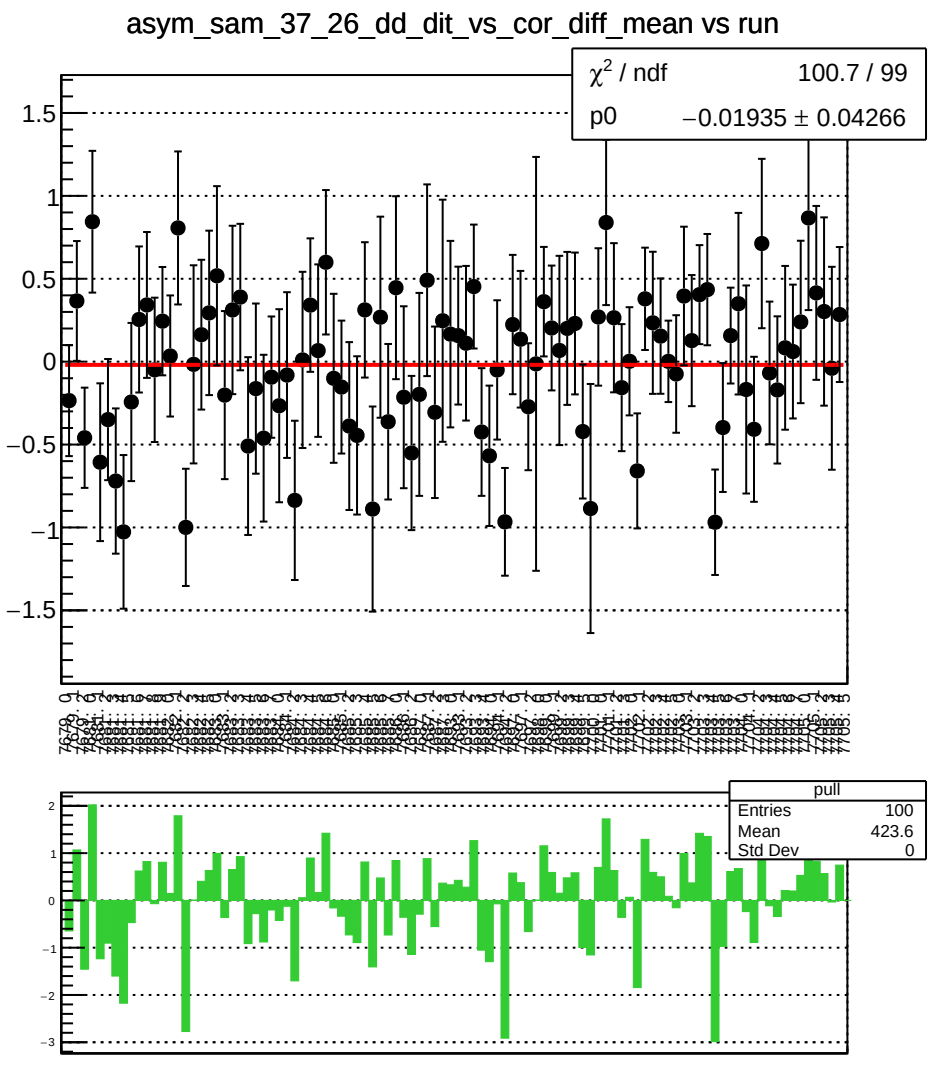

pull1D
Entries 100
Mean −0.01688
Std Dev 0.9426
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

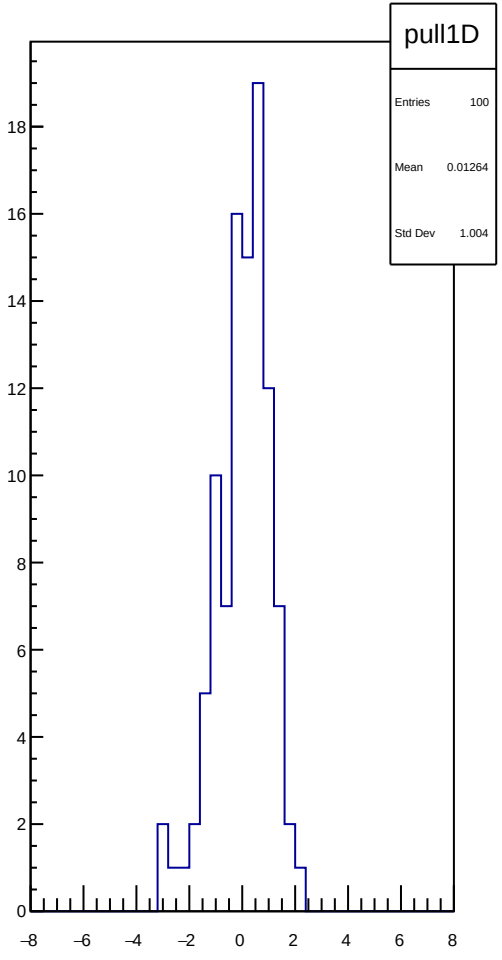

asym_sam_37_26_dd_rms vs run
χ² / ndf 8.028e+04 / 99
p0 244.2 ± 0.1798
400
350
300
250
200

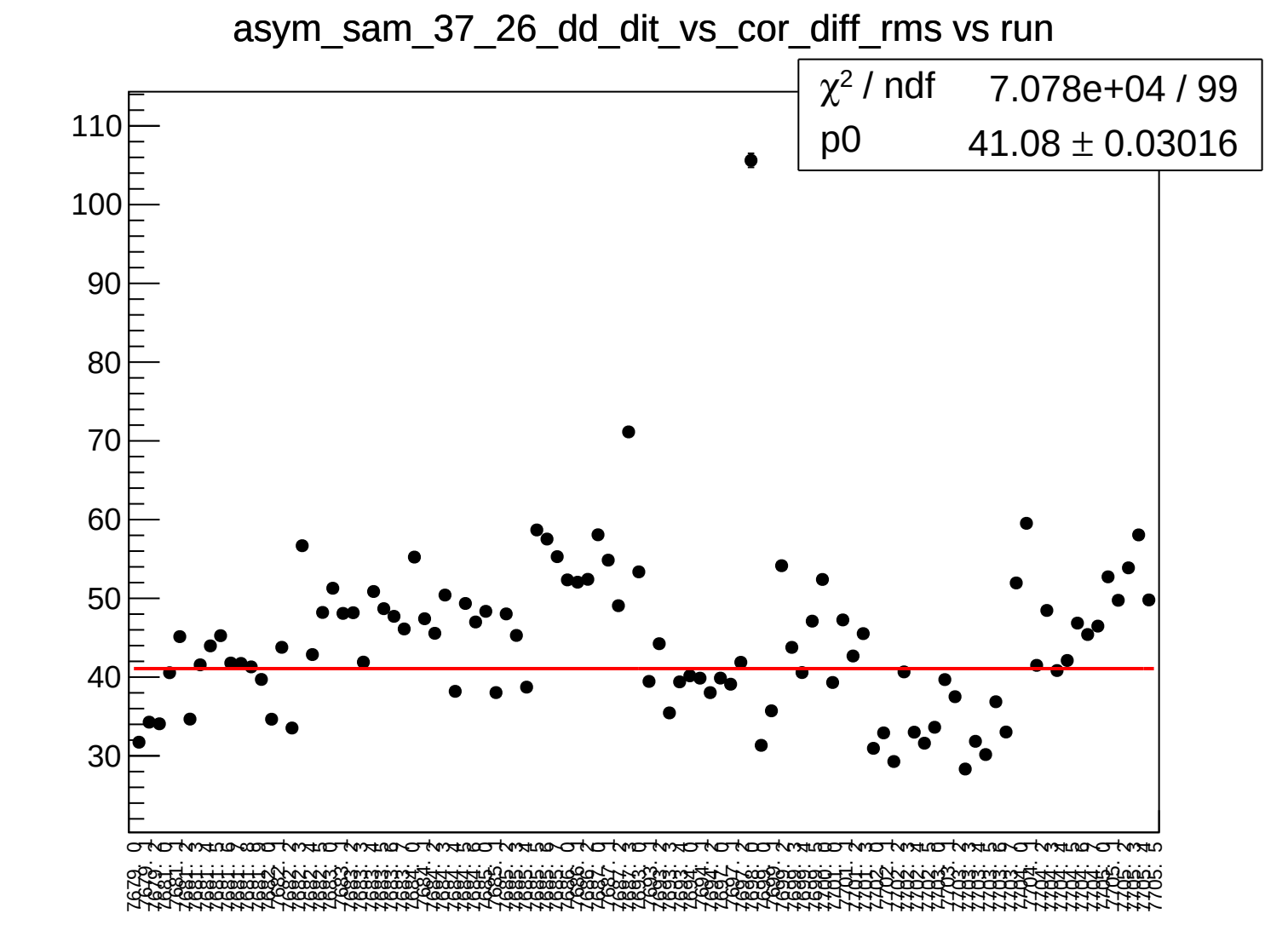

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 100.6 / 99
p0 9.088e−16 ± 1.627e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 100
Mean 8.018
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

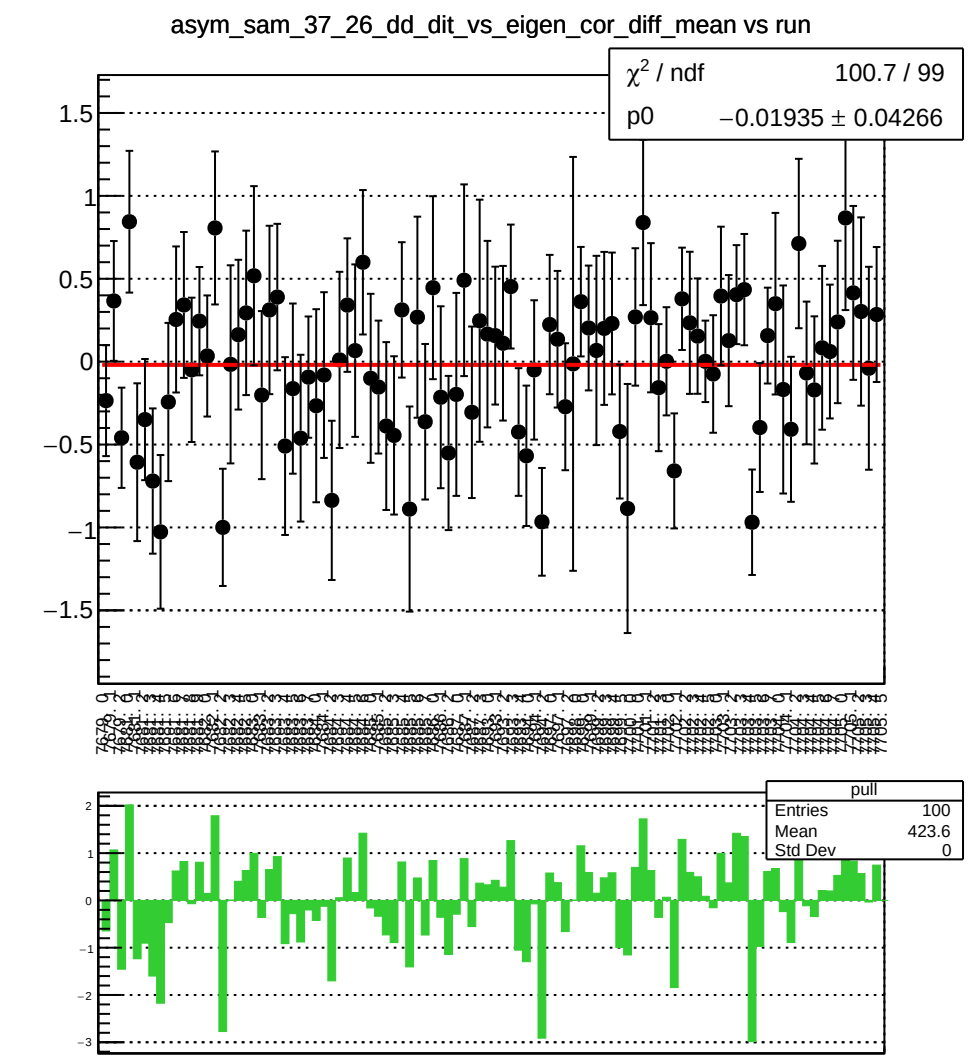

pull1D
Entries 100
Mean −0.1044
Std Dev 0.9975
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

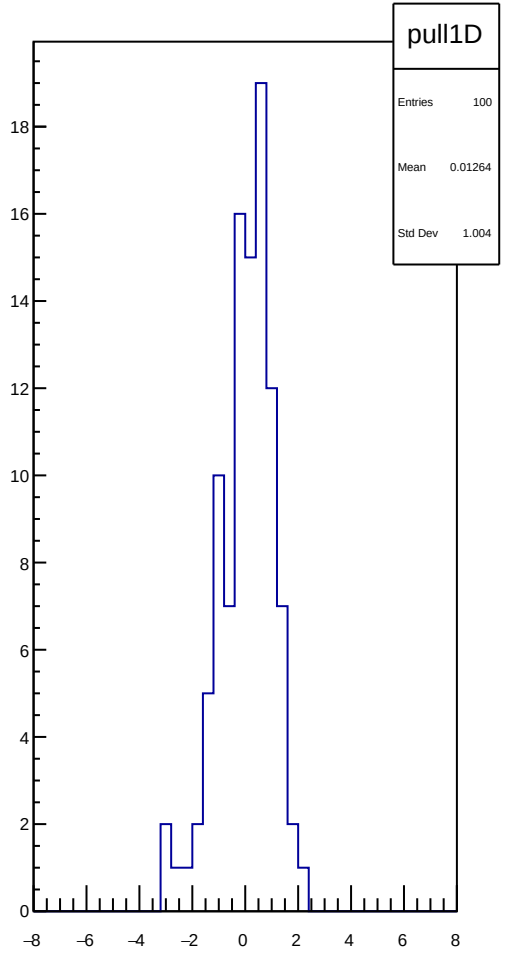

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.238e+06 / 99
p0 9.54e−12 ± 1.151e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

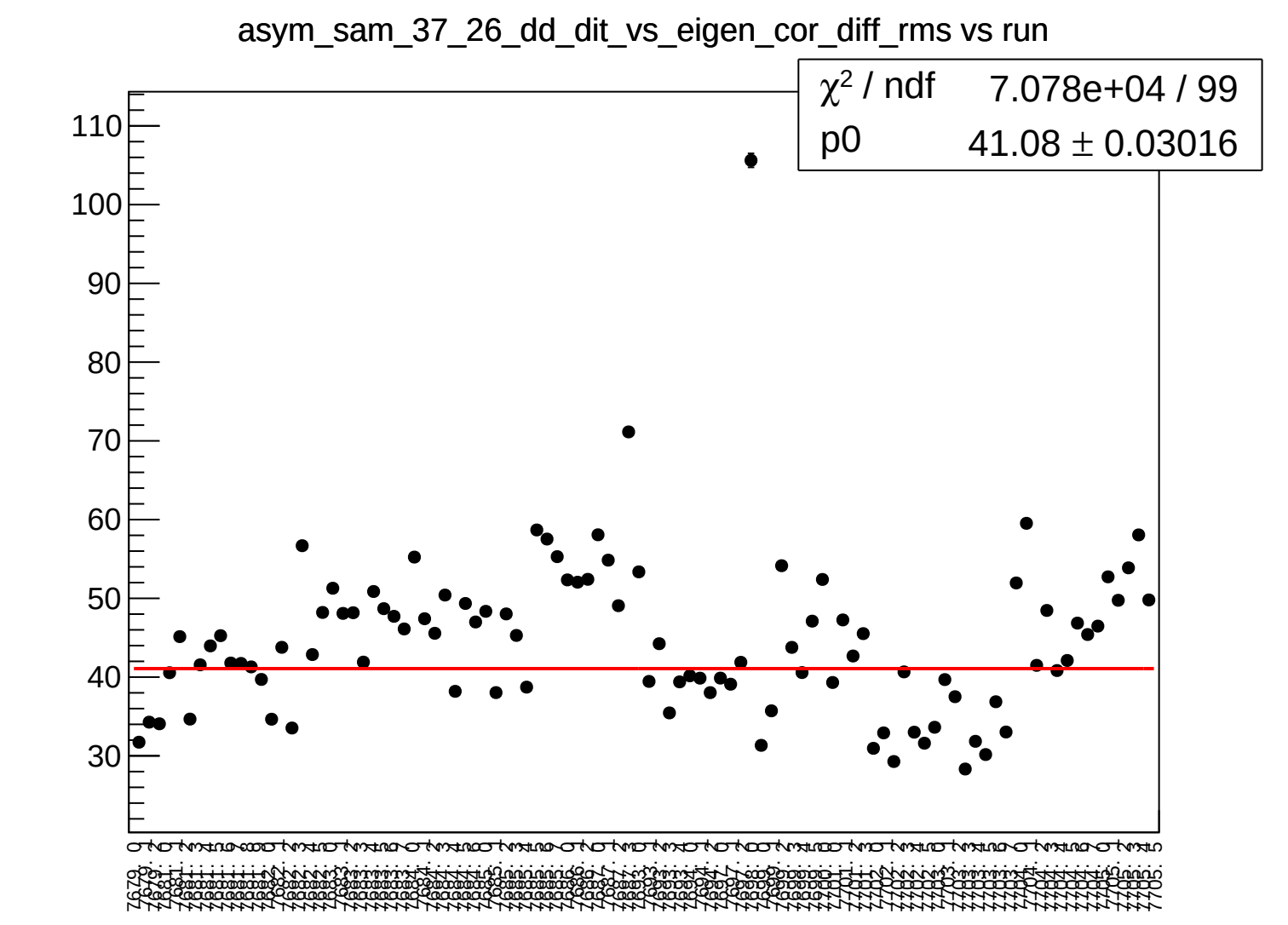

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 100.7 / 99
p0 −0.01935 ± 0.04266
pull
Entries 100
Mean 423.6
Std Dev 0

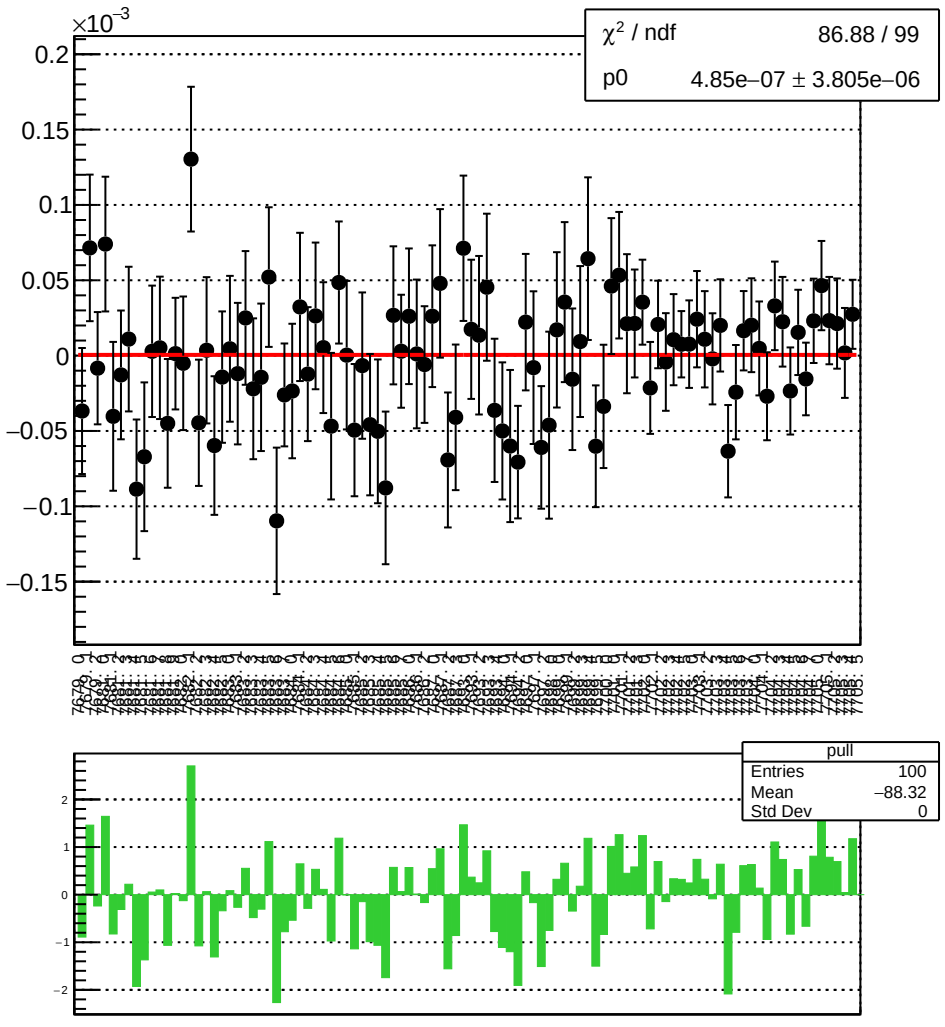

pull1D
Entries 100
Mean 0.01264
Std Dev 1.004

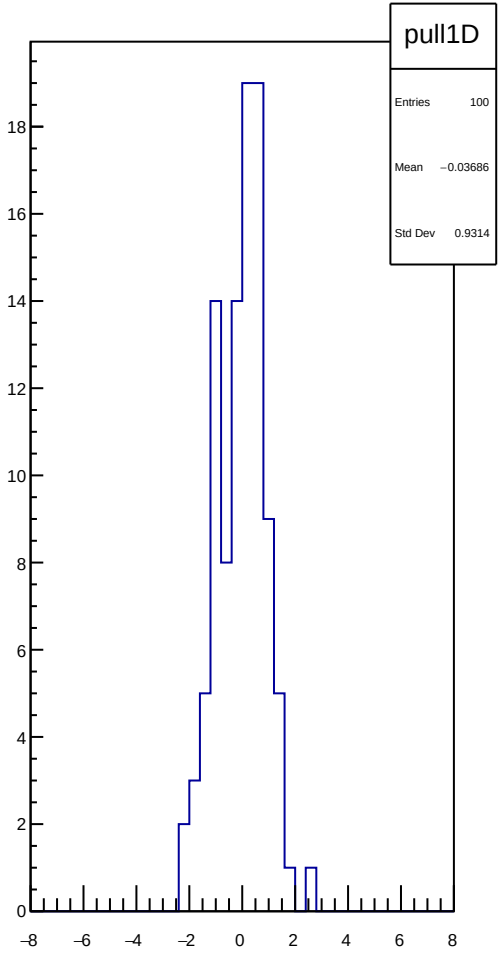

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.078e+04 / 99
p0 41.08 ± 0.03016
110
100
90
80
70
60
50
40
30

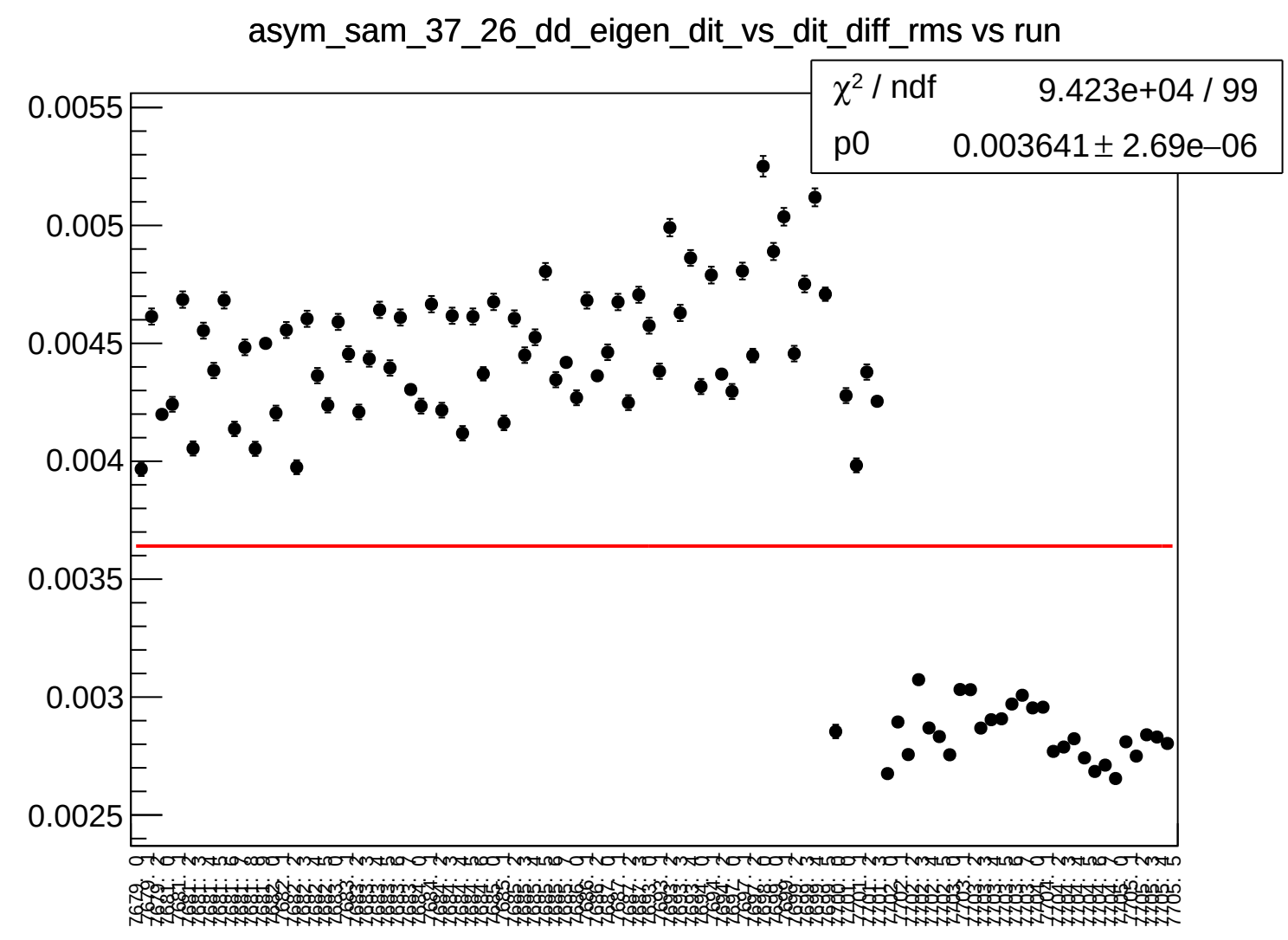

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.7 / 99
p0 −0.01935 ± 0.04266
pull
Entries 100
Mean 423.6
Std Dev 0

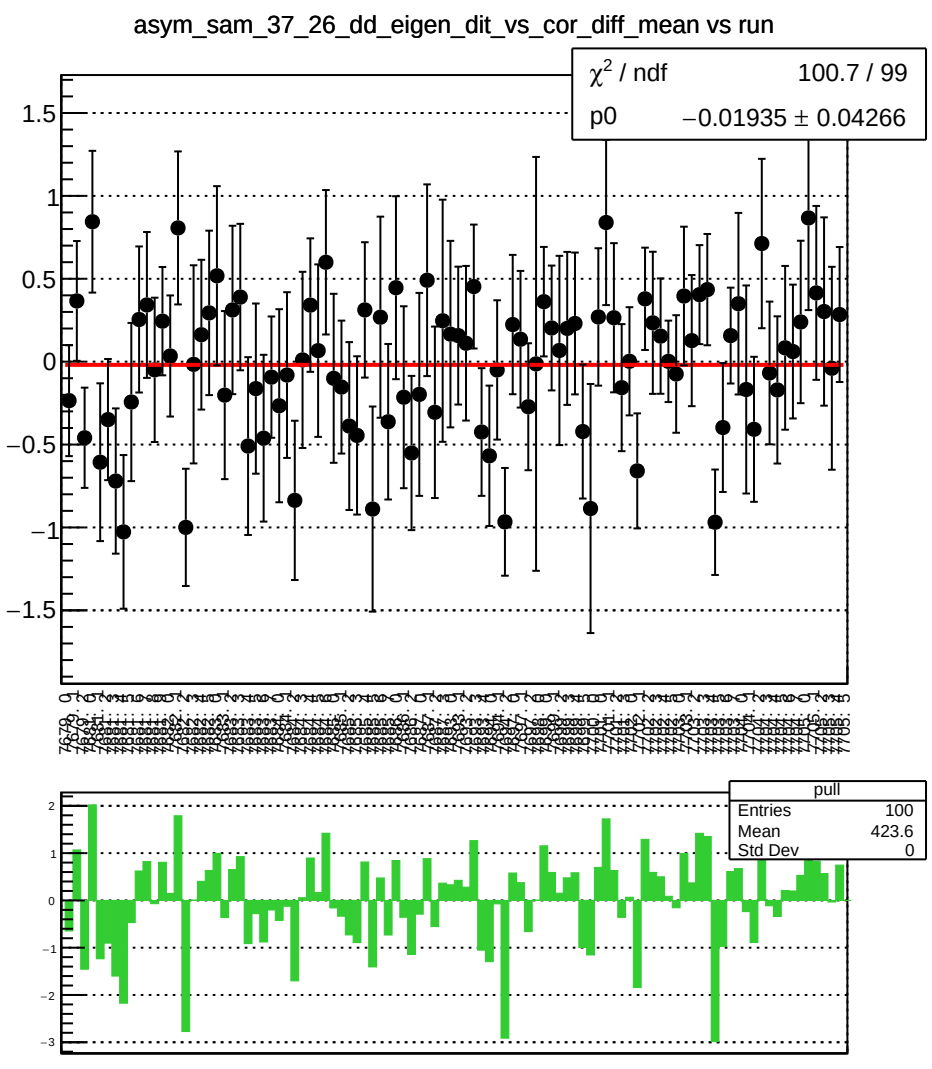

pull1D
Entries 100
Mean 0.01264
Std Dev 1.004

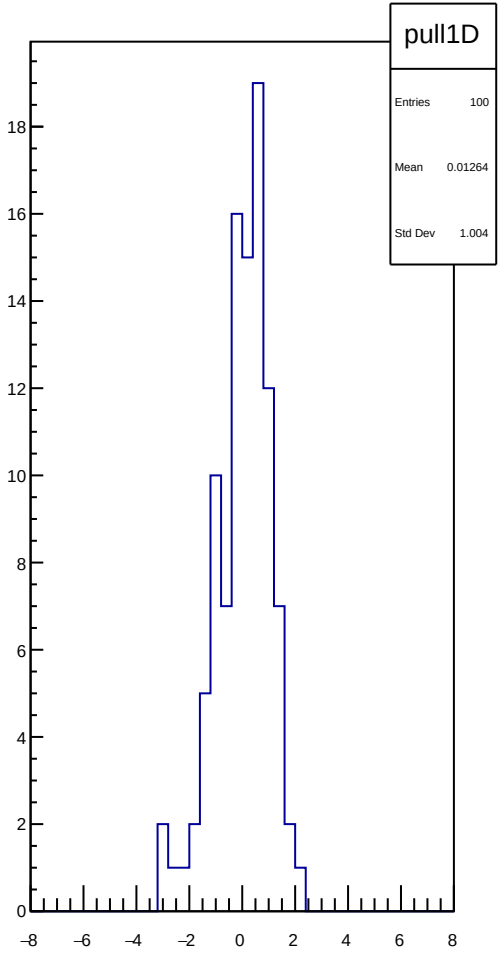

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.078e+04 / 99
p0 41.08 ± 0.03016
110
100
90
80
70
60
50
40
30

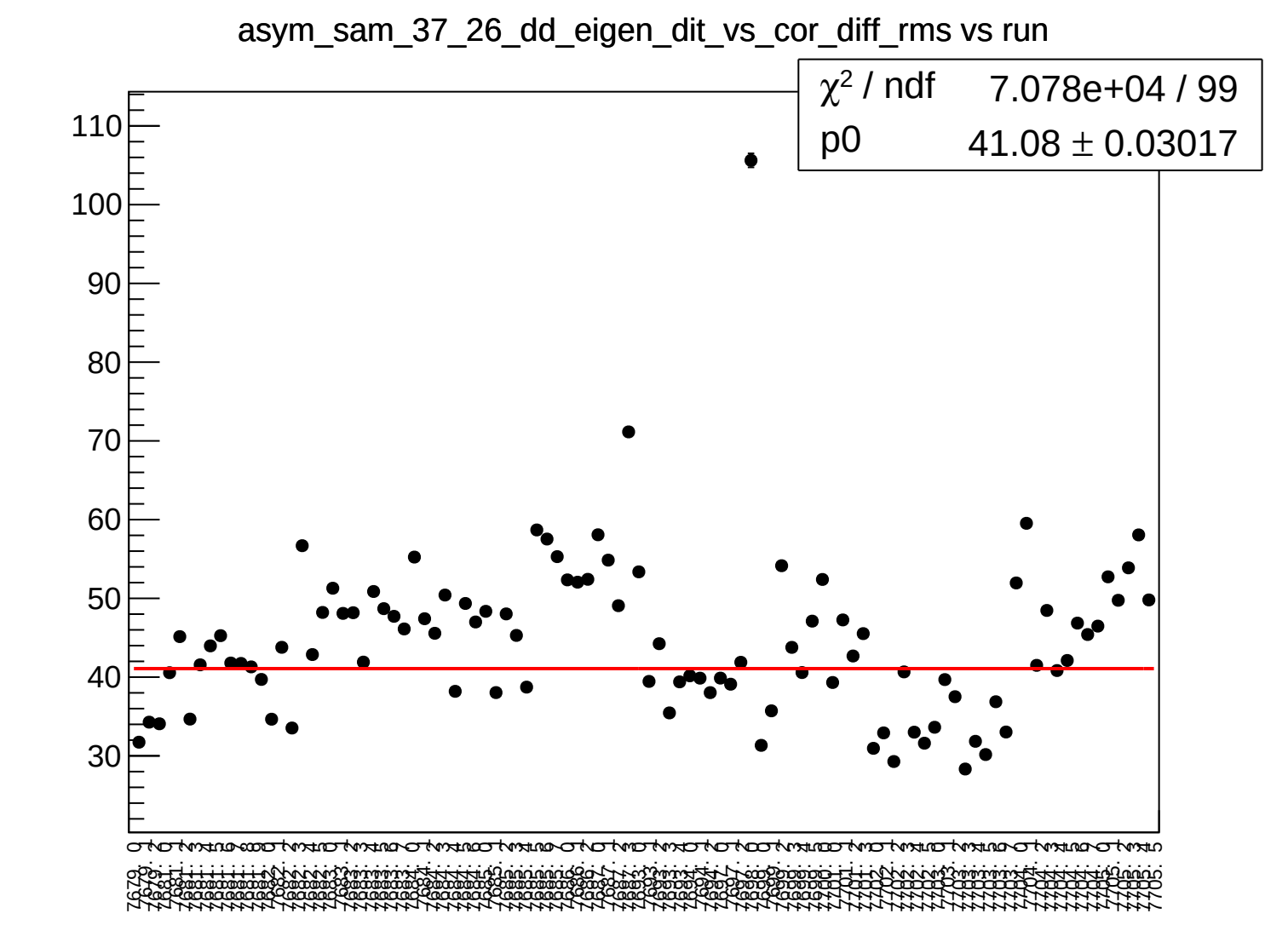

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.88 / 99
p0 4.85e−07 ± 3.805e−06
pull
Entries 100
Mean −88.32
Std Dev 0

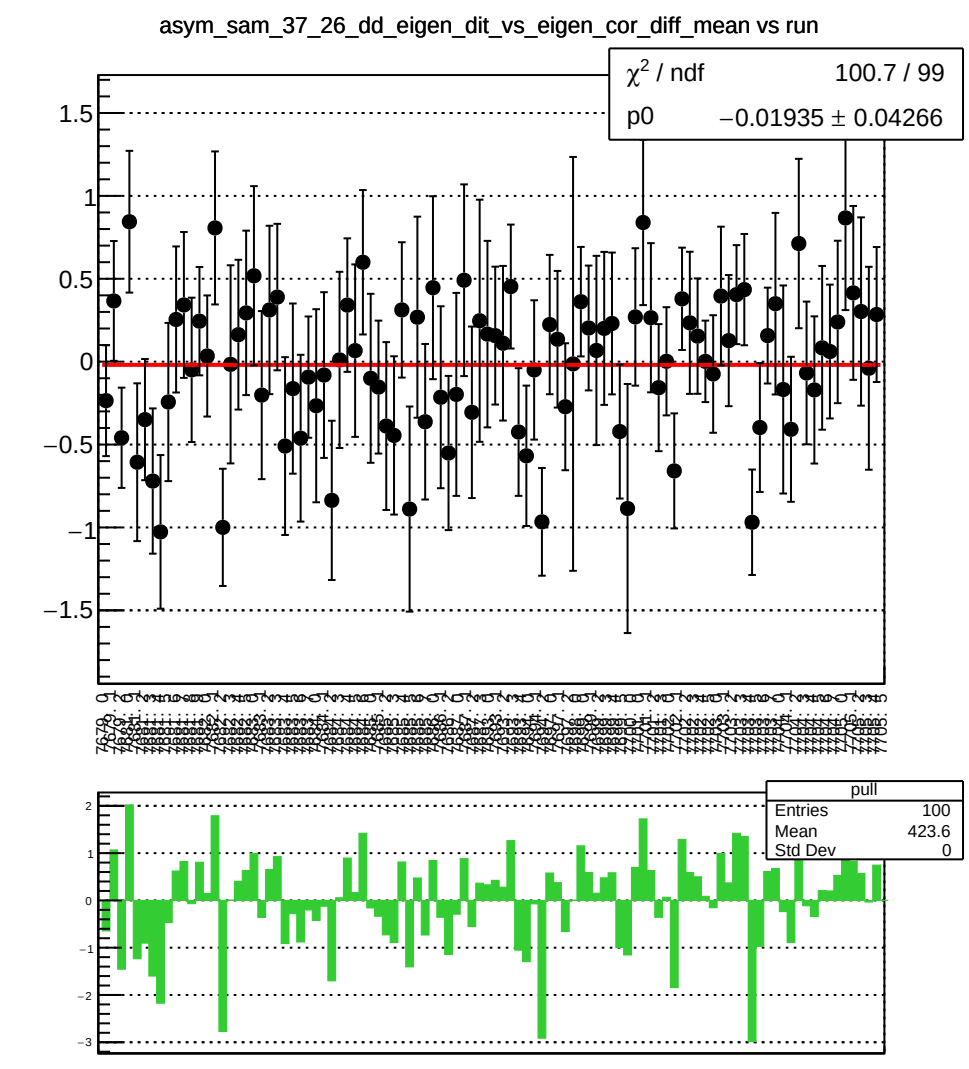

pull1D
Entries 100
Mean −0.03686
Std Dev 0.9314

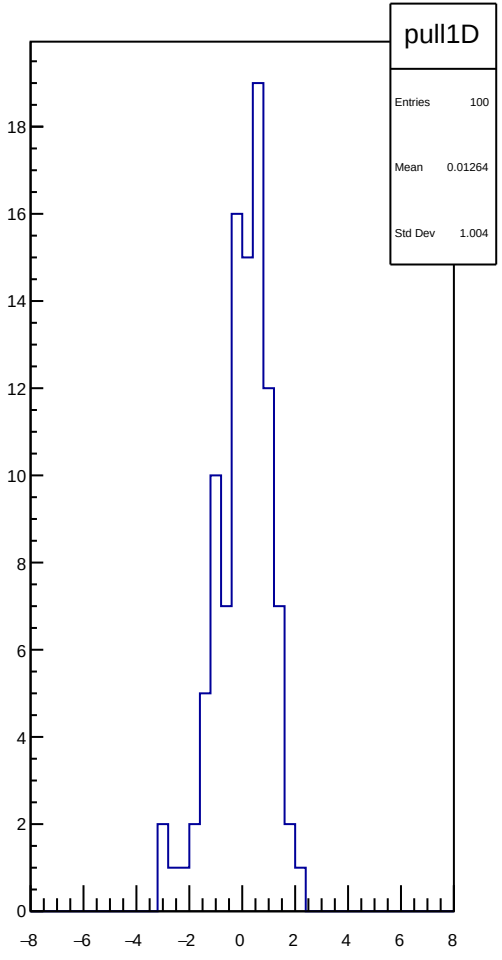

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.423e+04 / 99
p0 0.003641 ± 2.69e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

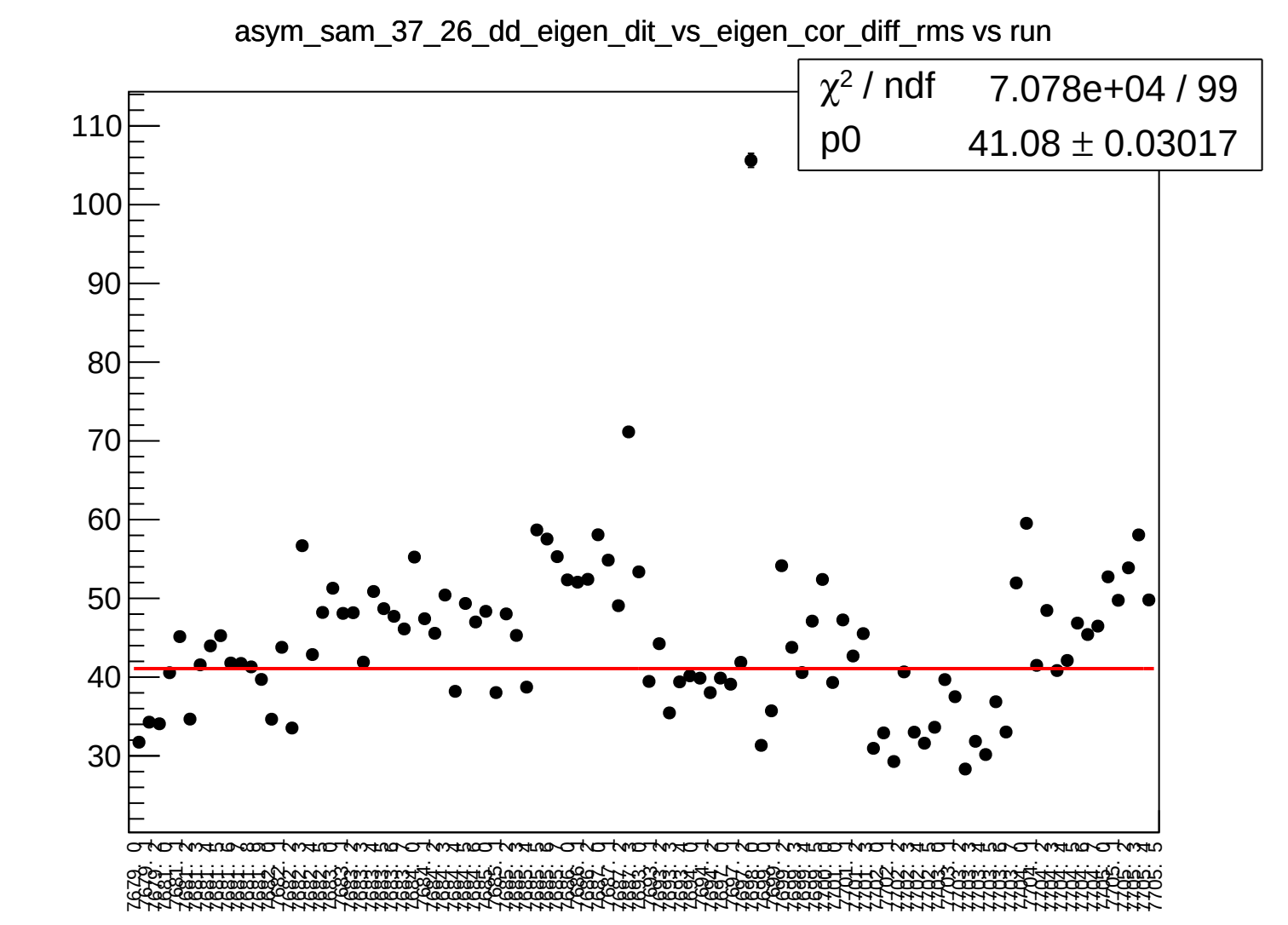

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.7 / 99
p0 −0.01935 ± 0.04266
pull
Entries 100
Mean 423.6
Std Dev 0

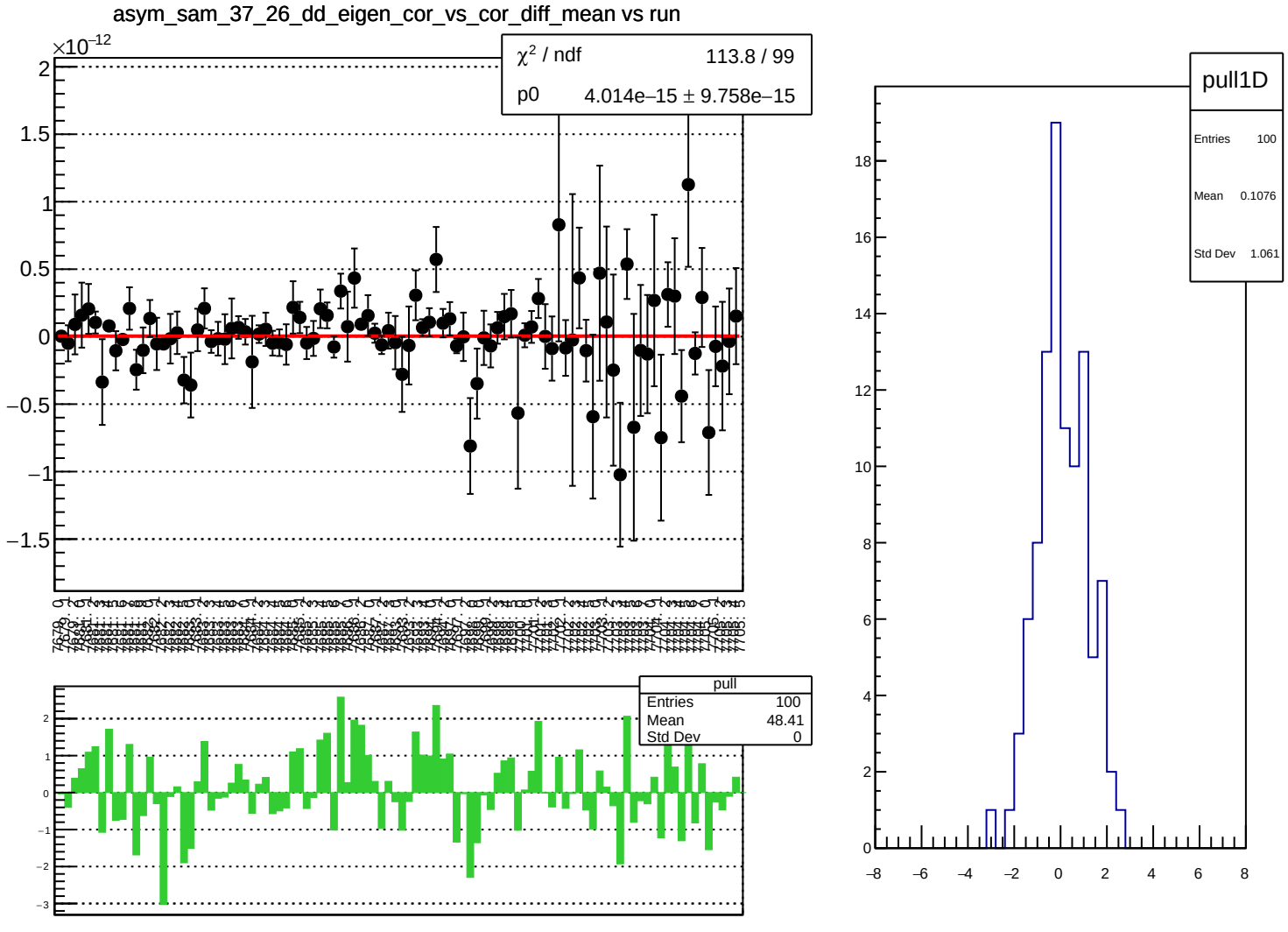

pull1D
Entries 100
Mean 0.01264
Std Dev 1.004

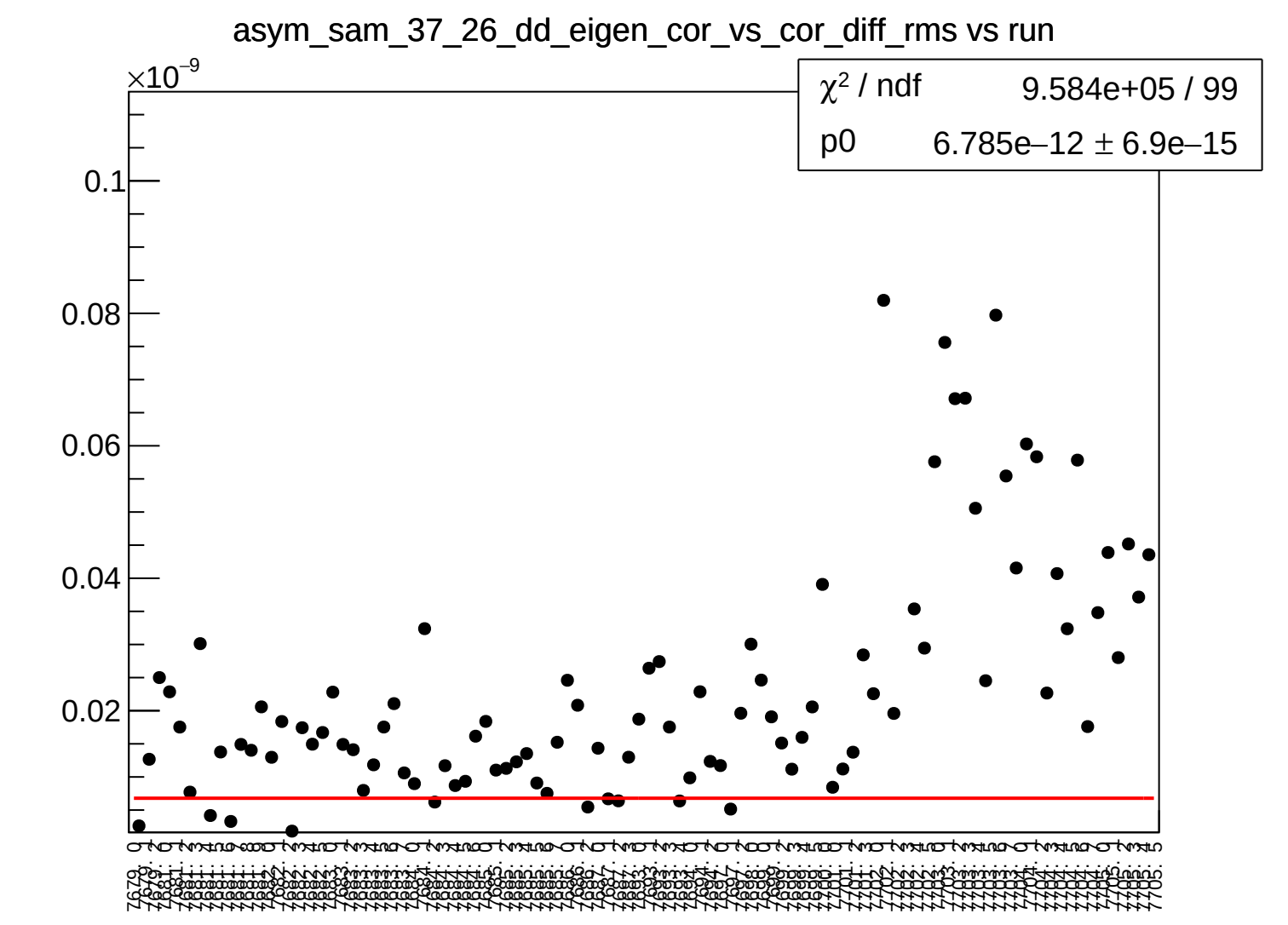

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.078e+04 / 99
p0 41.08 ± 0.03017
110
100
90
80
70
60
50
40
30

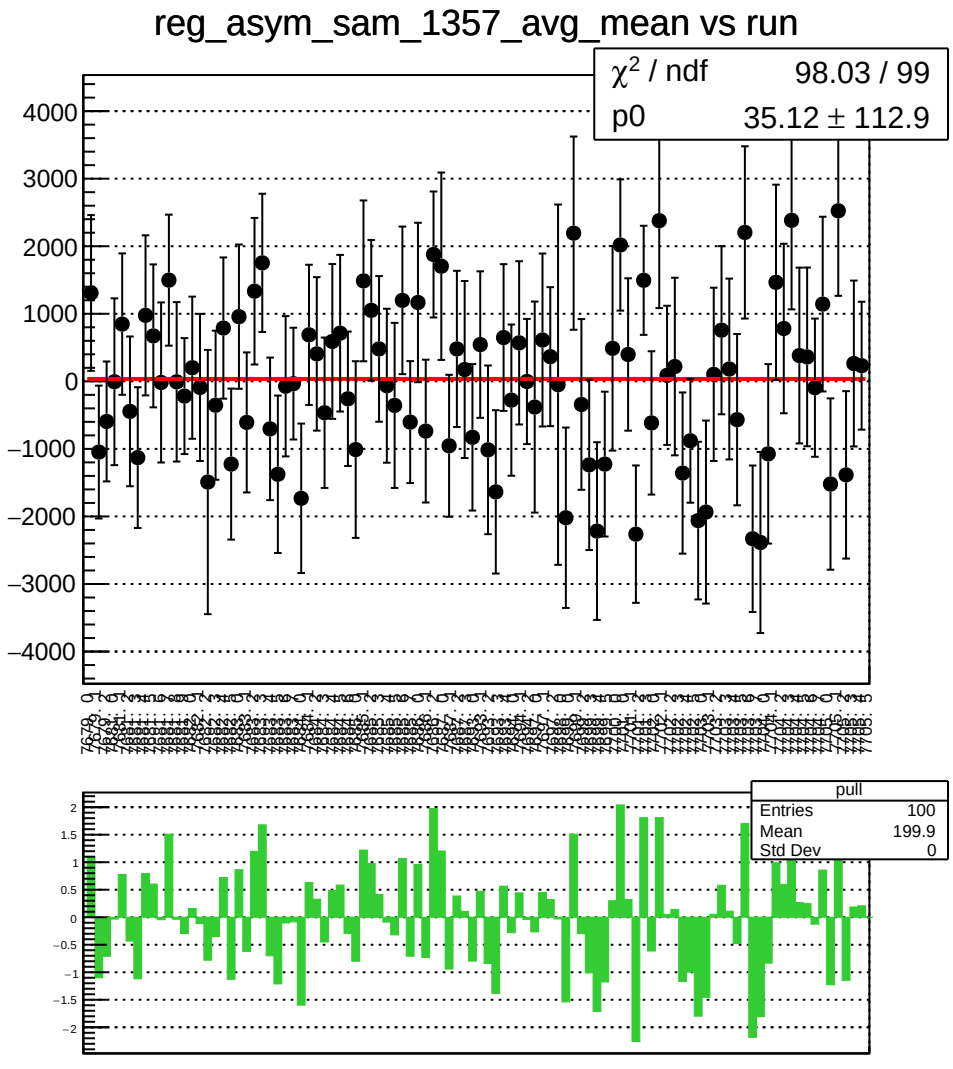

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.7 / 99
p0 −0.01935 ± 0.04266
pull
Entries 100
Mean 423.6
Std Dev 0

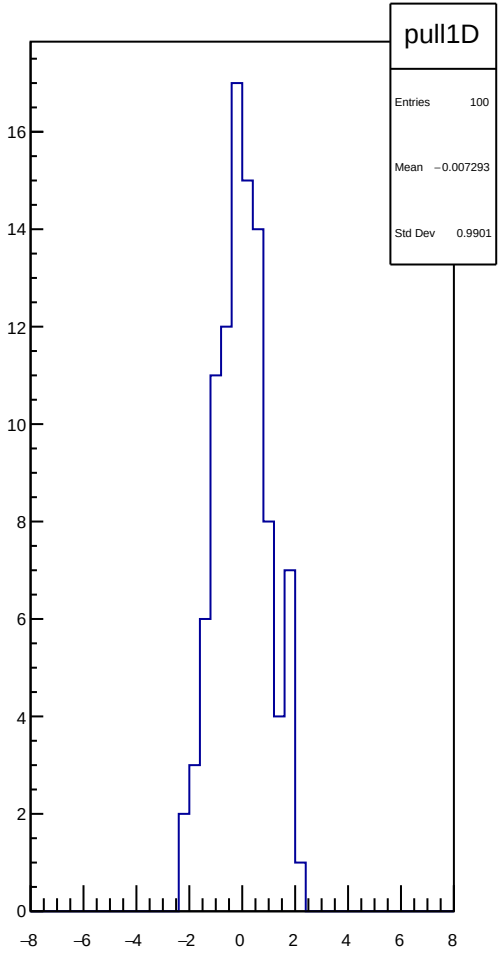

pull1D
Entries 100
Mean 0.01264
Std Dev 1.004

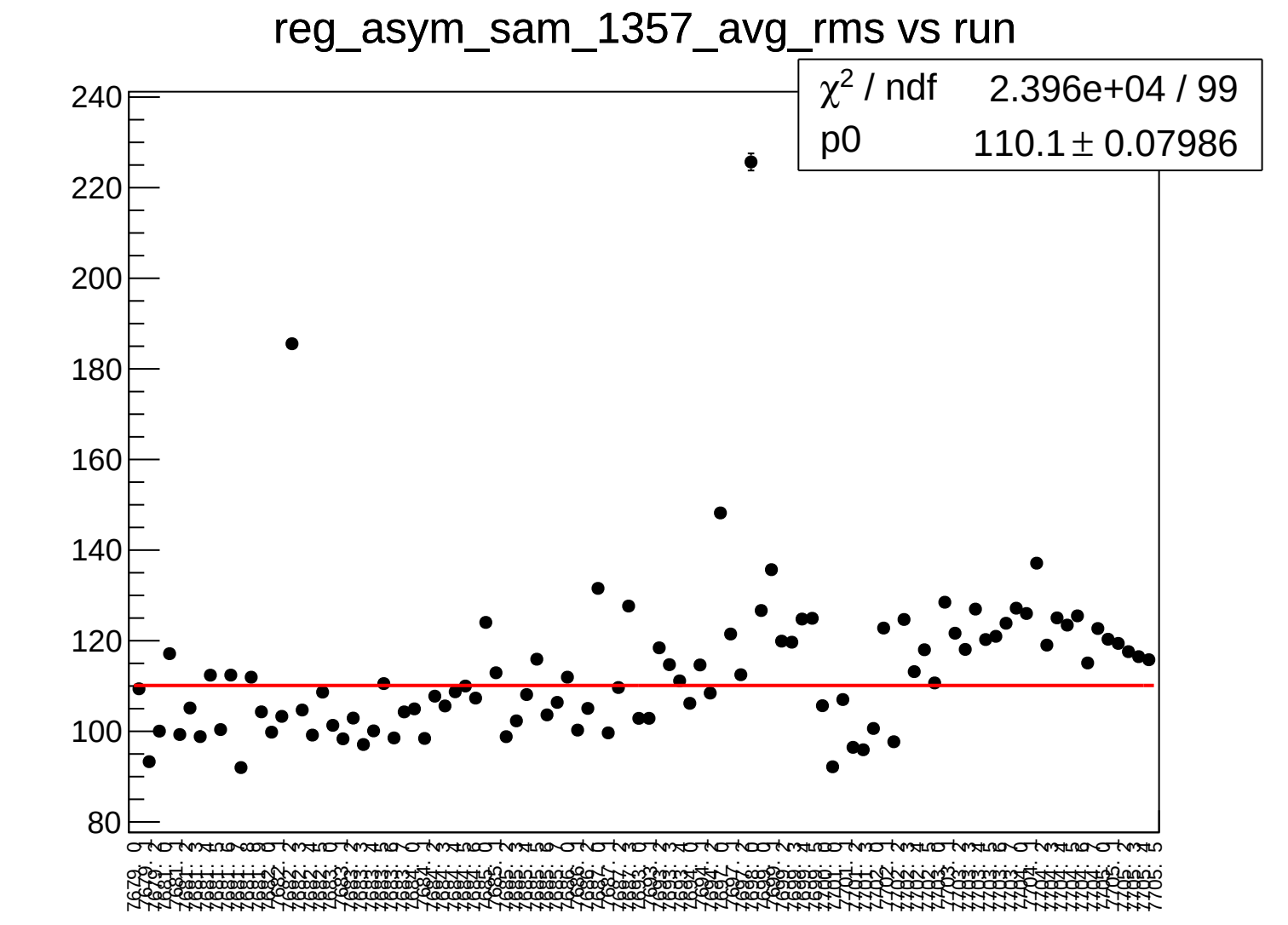

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.078e+04 / 99
p0 41.08 ± 0.03017
110
100
90
80
70
60
50
40
30

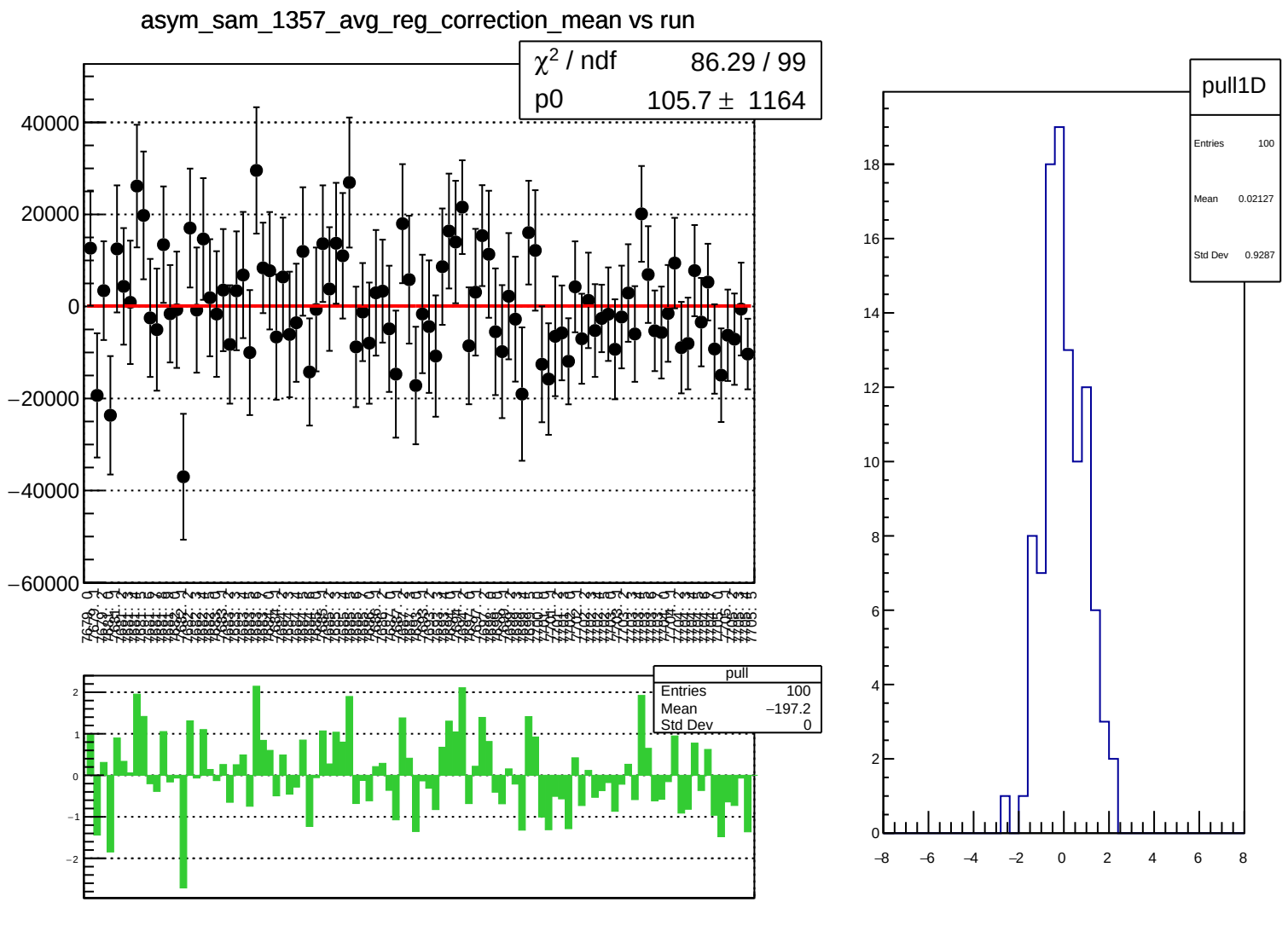

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 113.8 / 99
p0 4.014e−15 ± 9.758e−15
pull
Entries 100
Mean 48.41
Std Dev 0
pull1D
Entries 100
Mean 0.1076
Std Dev 1.061

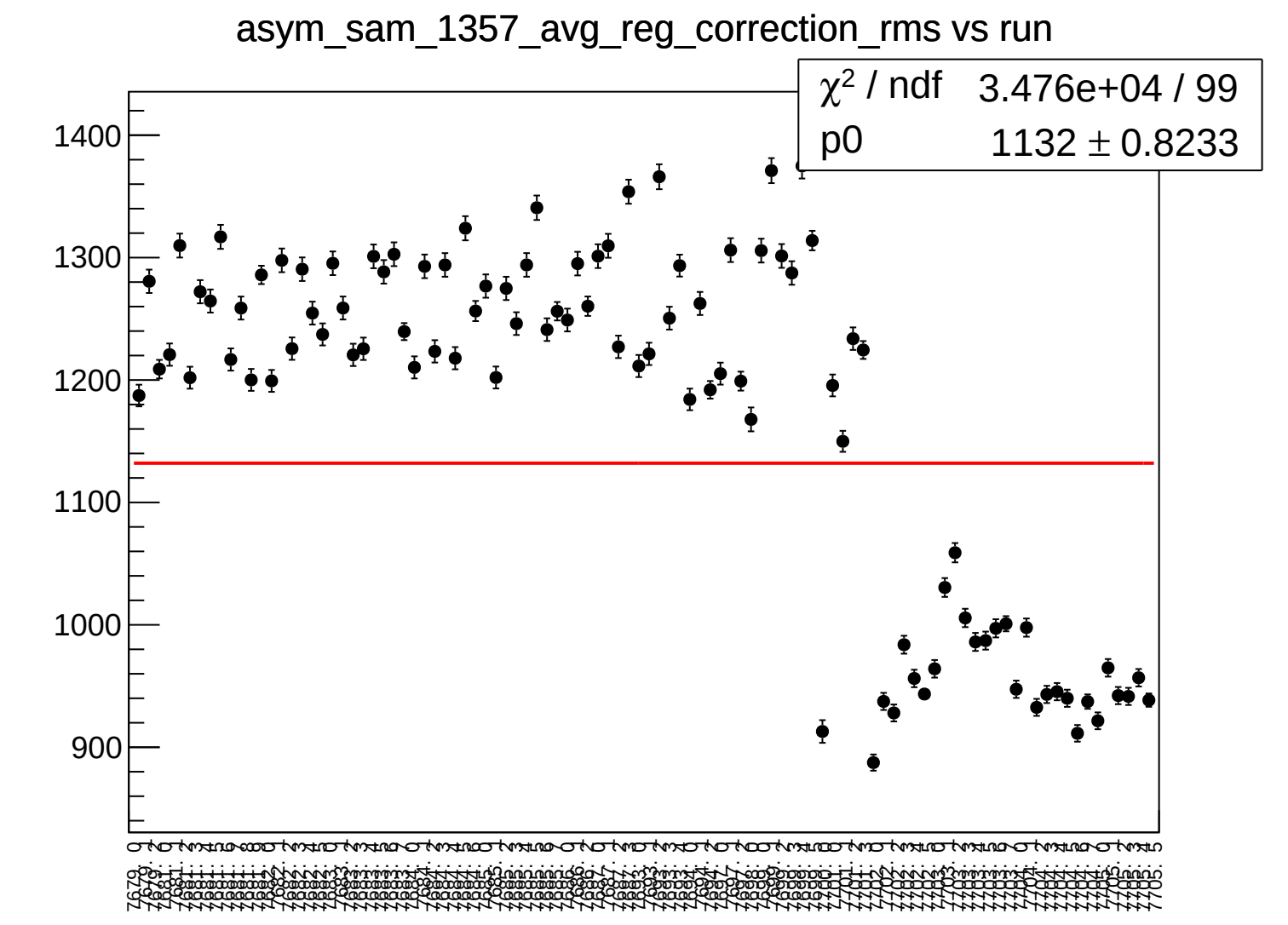

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.584e+05 / 99
p0 6.785e−12 ± 6.9e−15
0.1
0.08
0.06
0.04
0.02

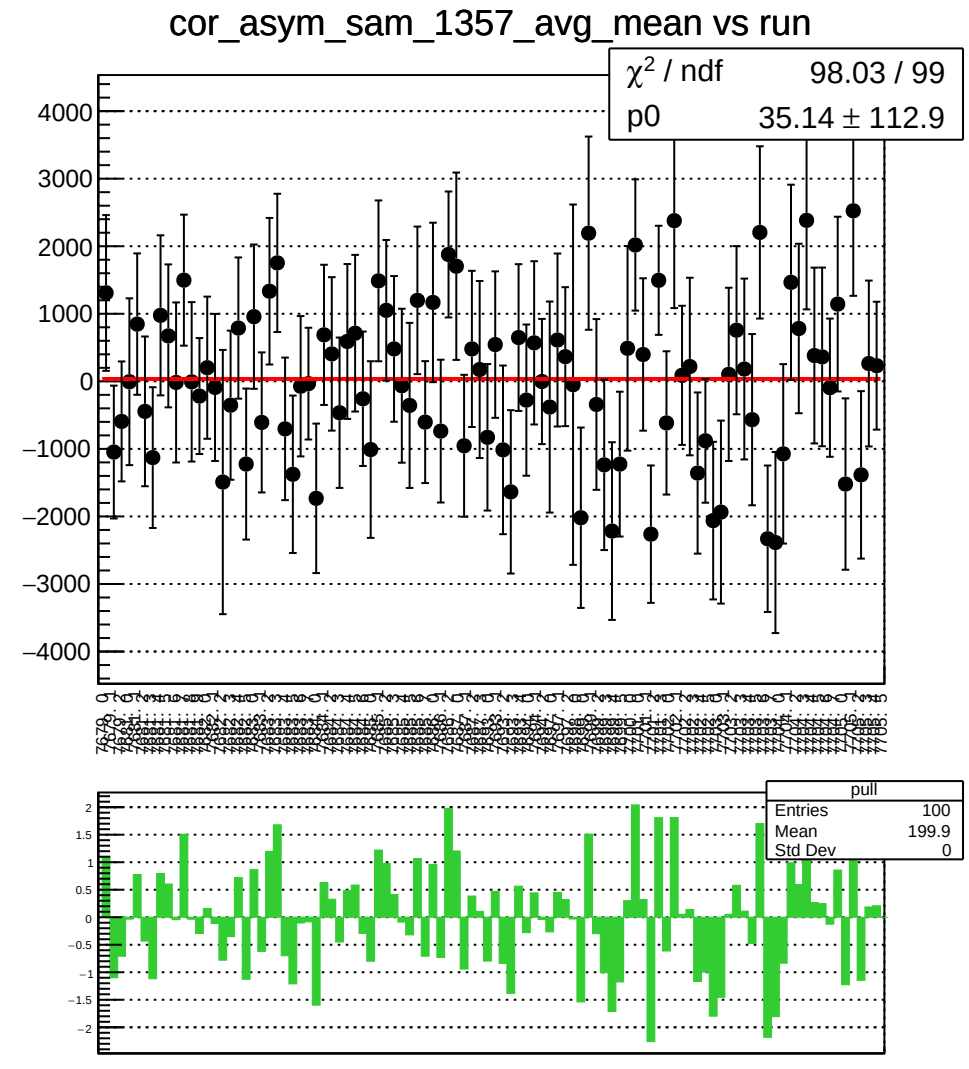

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 98.03 / 99
p0 35.12 ± 112.9
pull
Entries 100
Mean 199.9
Std Dev 0

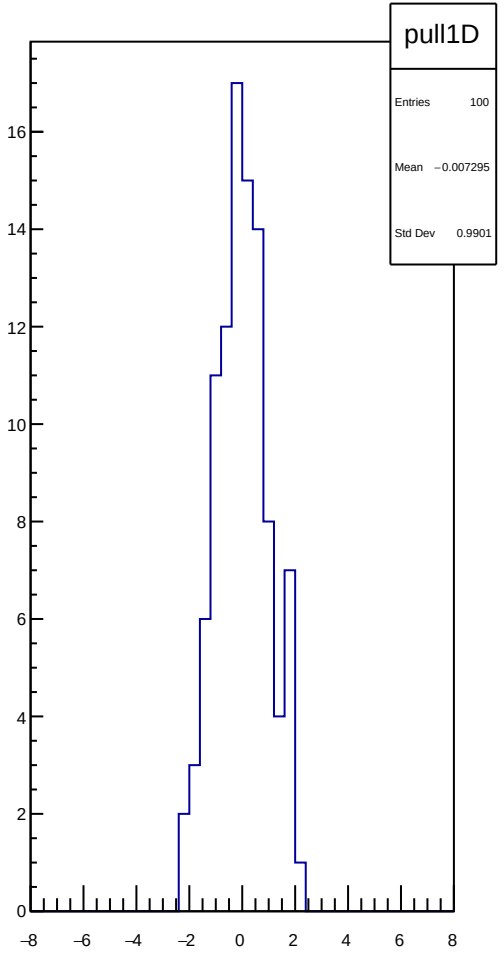

pull1D
Entries 100
Mean −0.007293
Std Dev 0.9901

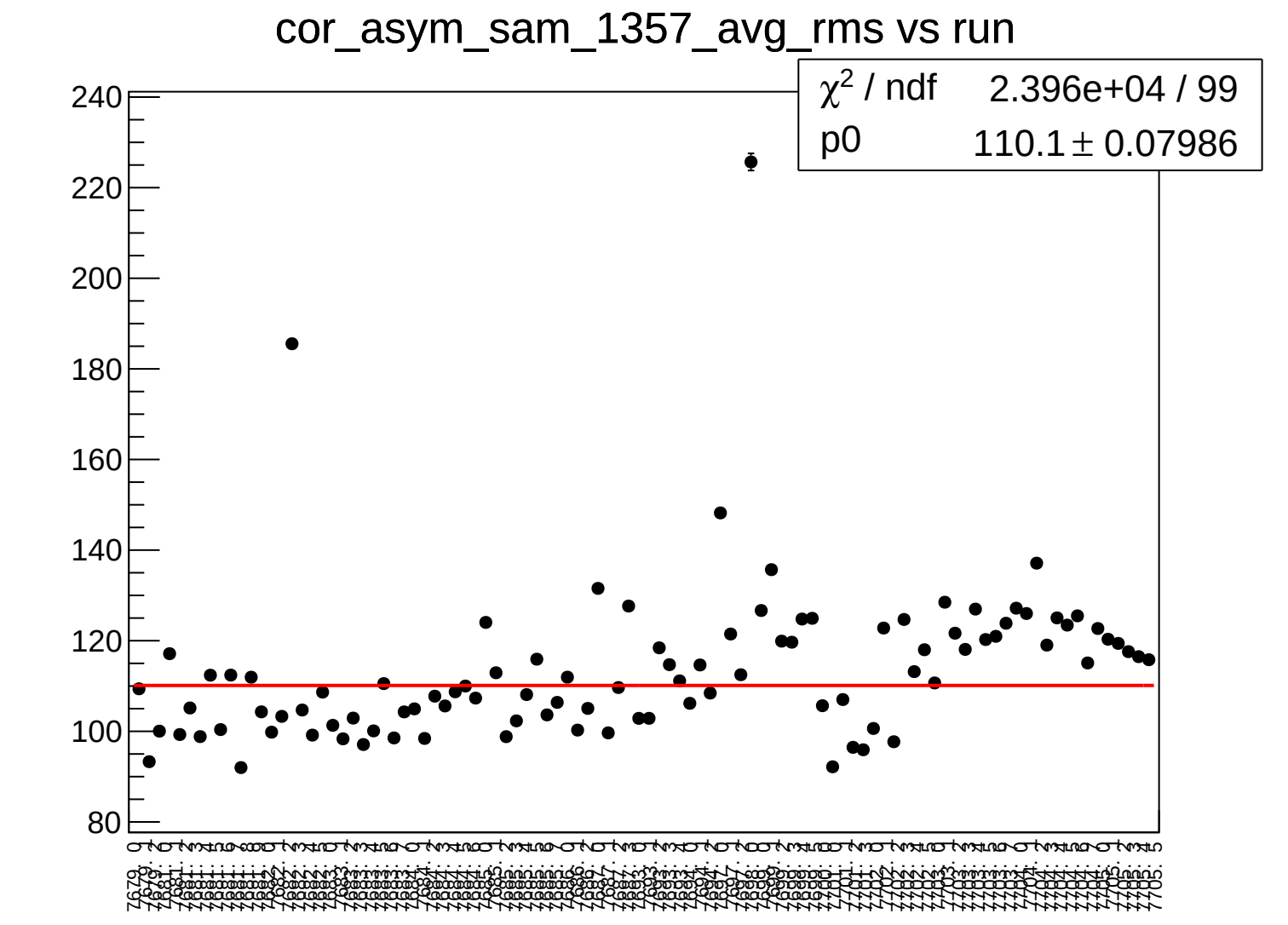

reg_asym_sam_1357_avg_rms vs run
χ^2 / ndf 2.396e+04 / 99
p0 110.1 ± 0.07986
240
220
200
180
160
140
120
100
80

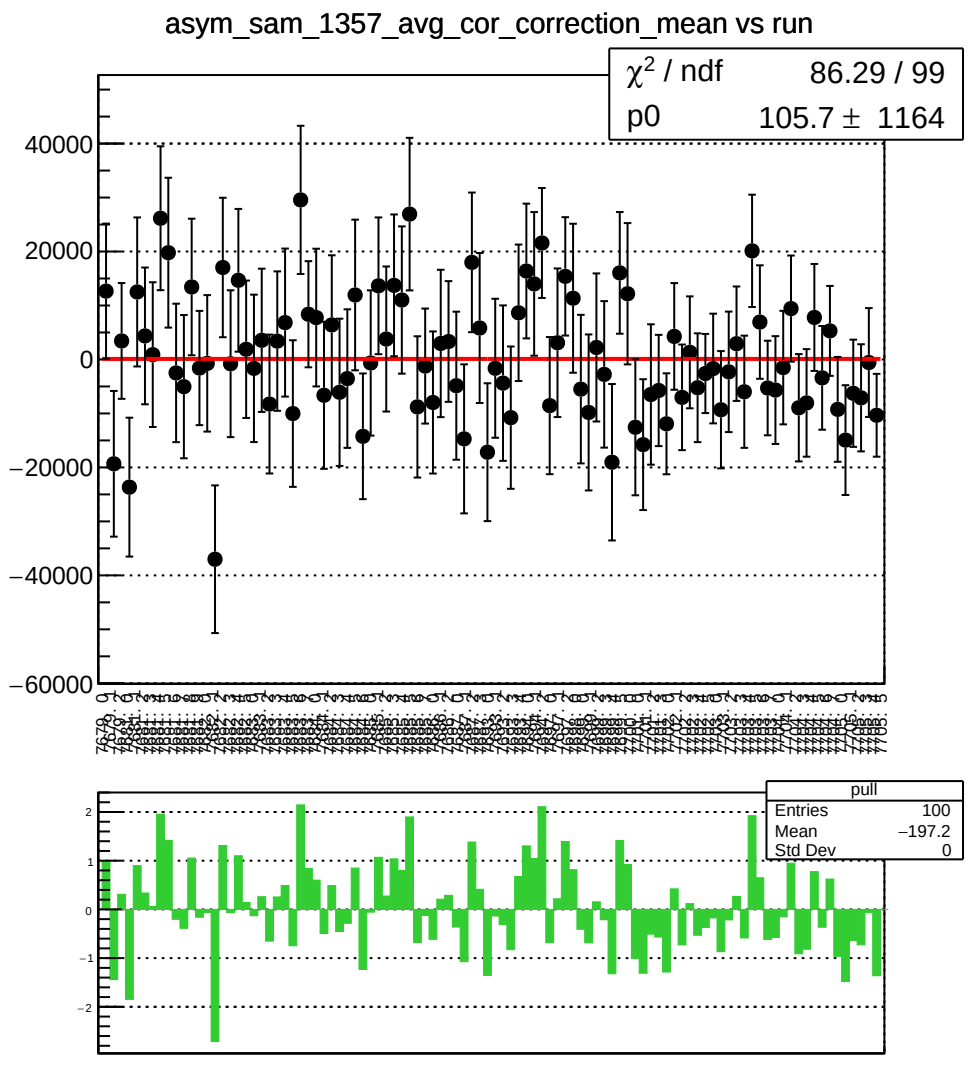

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 86.29 / 99
p0 105.7 ± 1164
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −197.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.02127
Std Dev 0.9287
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

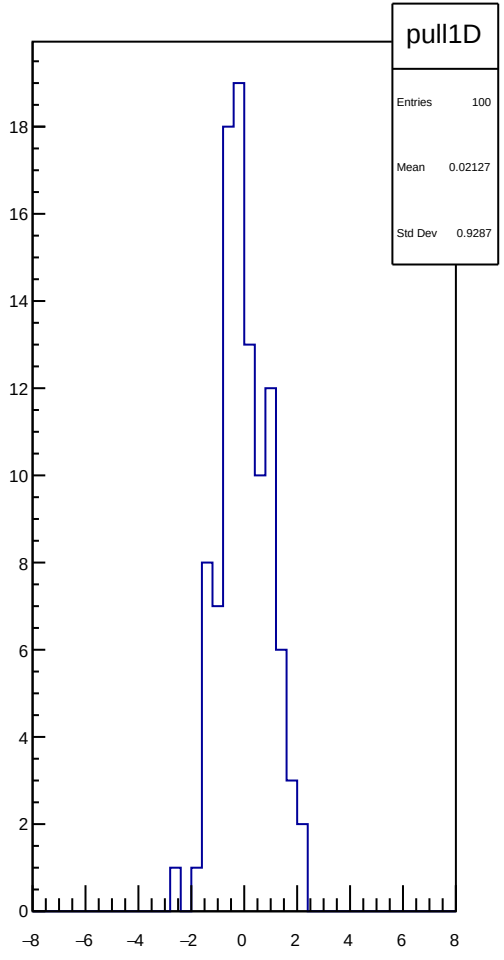

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 3.476e+04 / 99
p0 1132 ± 0.8233
1400
1300
1200
1100
1000
900

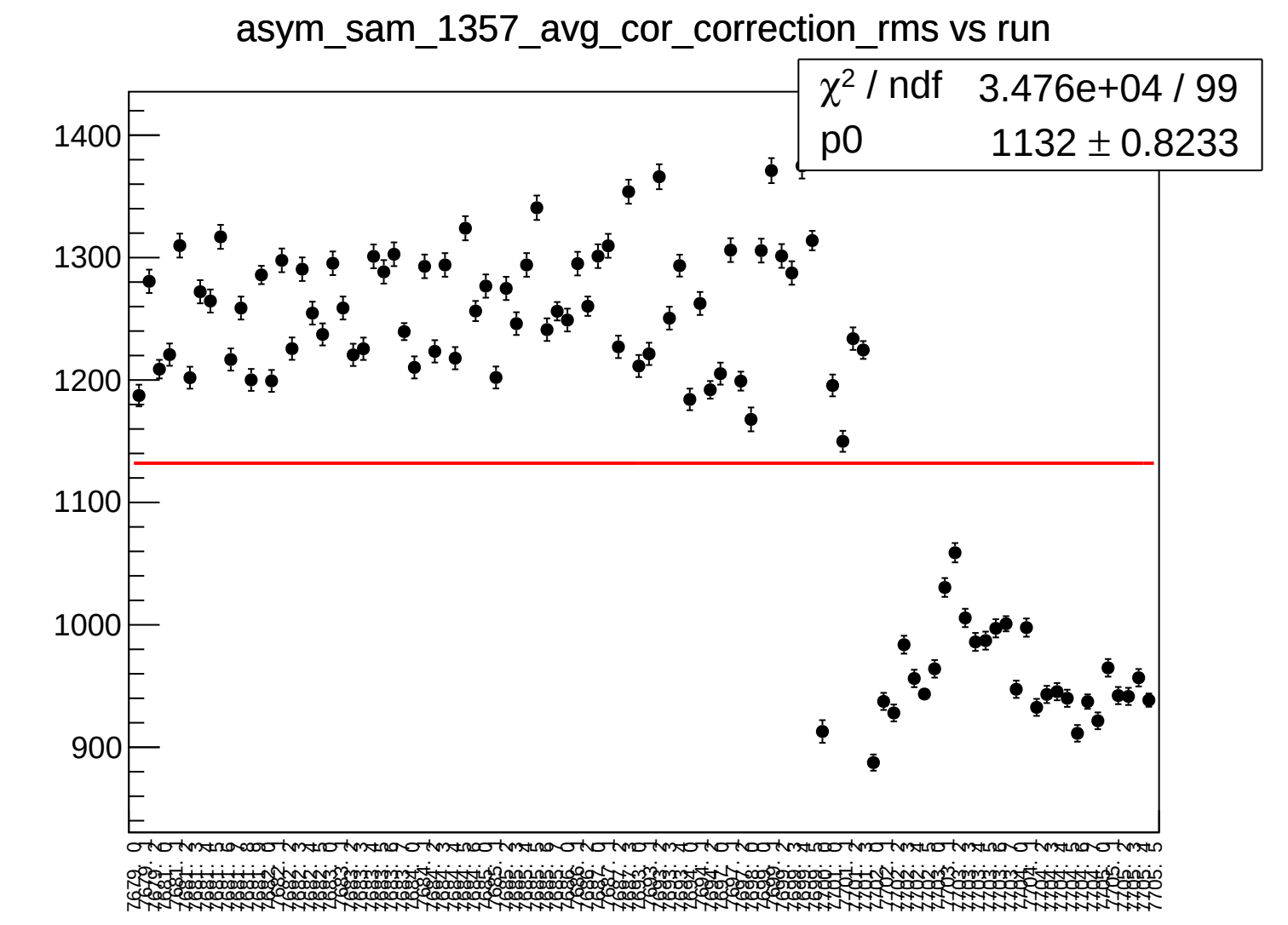

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 98.03 / 99
p0 35.14 ± 112.9
pull
Entries 100
Mean 199.9
Std Dev 0

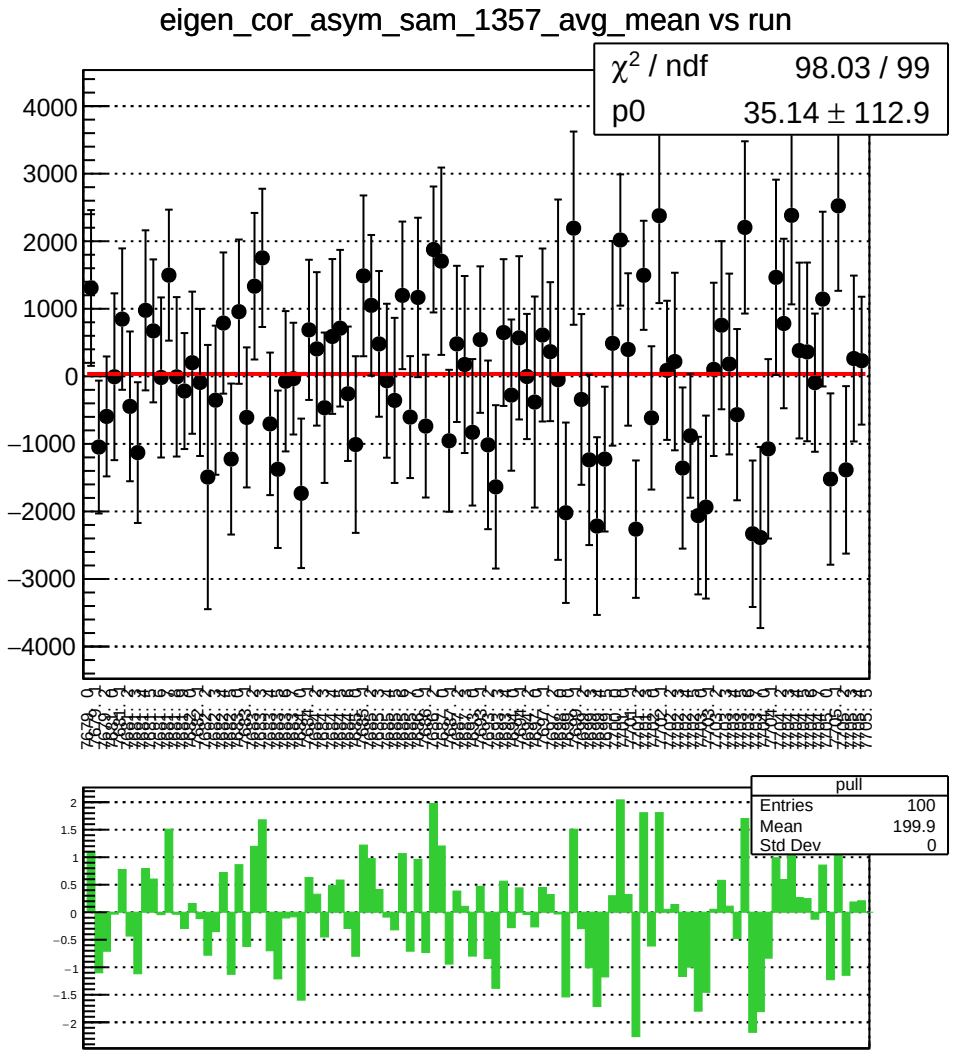

pull1D
Entries 100
Mean −0.007295
Std Dev 0.9901

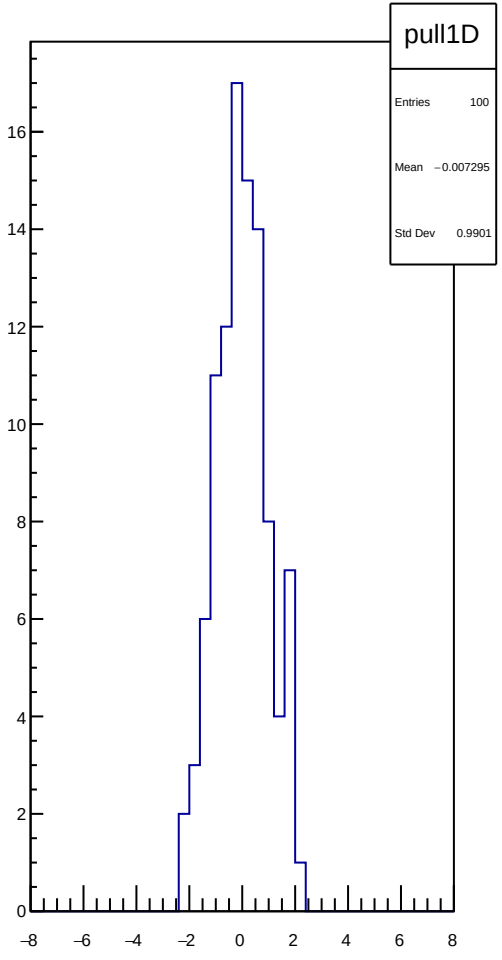

cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 2.396e+04 / 99
p0 110.1 ± 0.07986
240
220
200
180
160
140
120
100
80

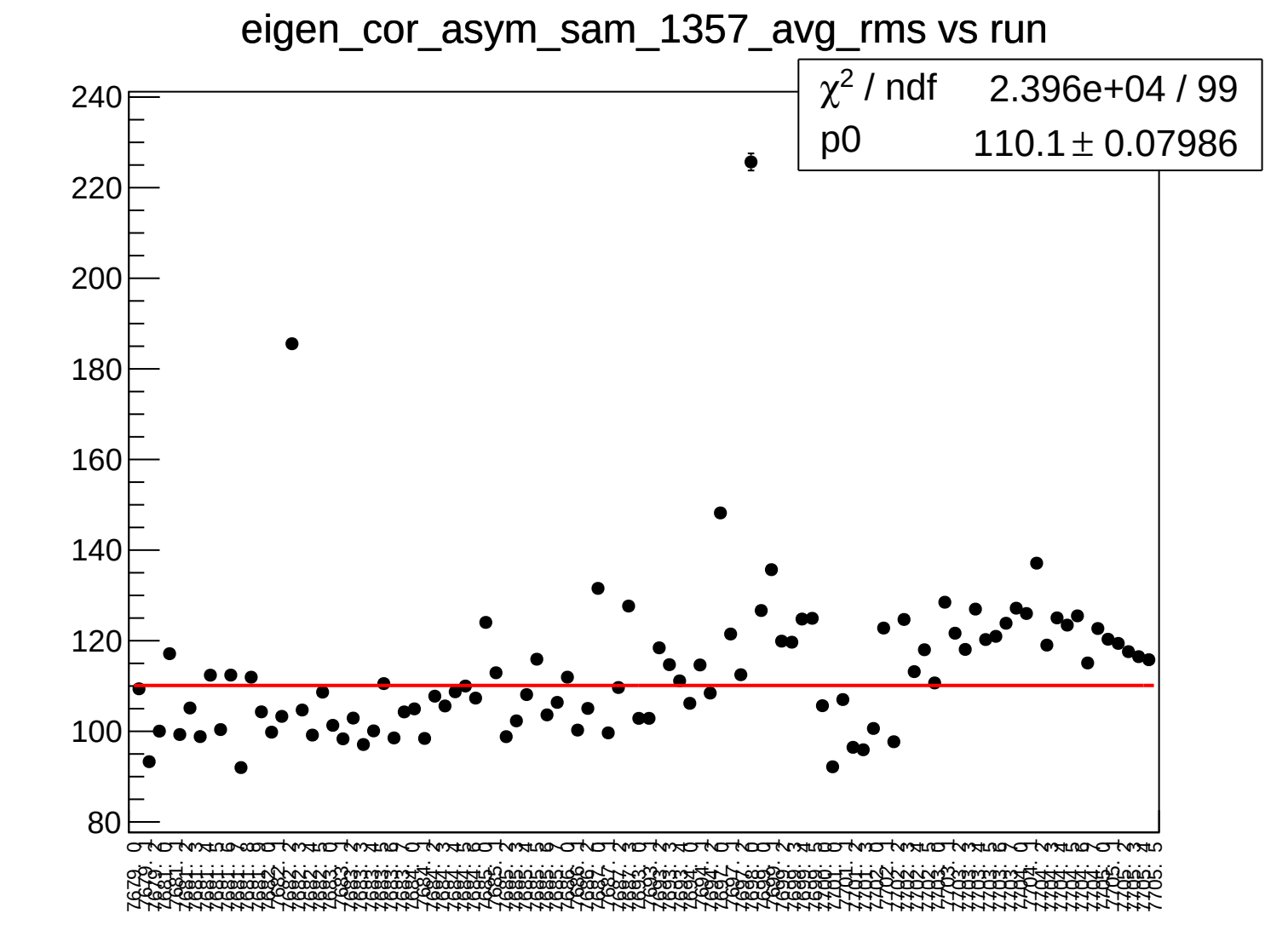

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 86.29 / 99
p0 105.7 ± 1164
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −197.2
Std Dev 0
2
1
0
−1
−2

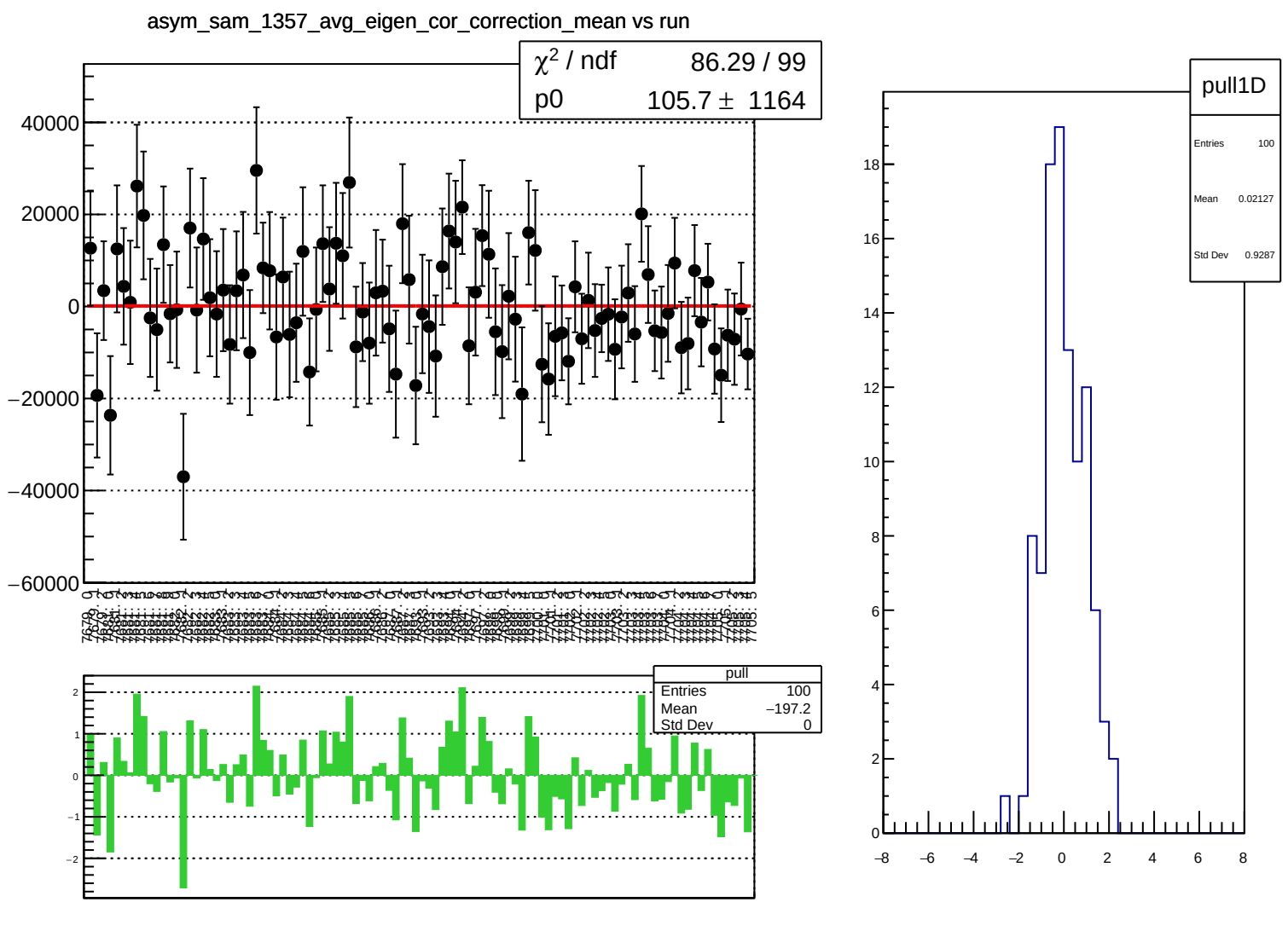

pull1D
Entries 100
Mean 0.02127
Std Dev 0.9287
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

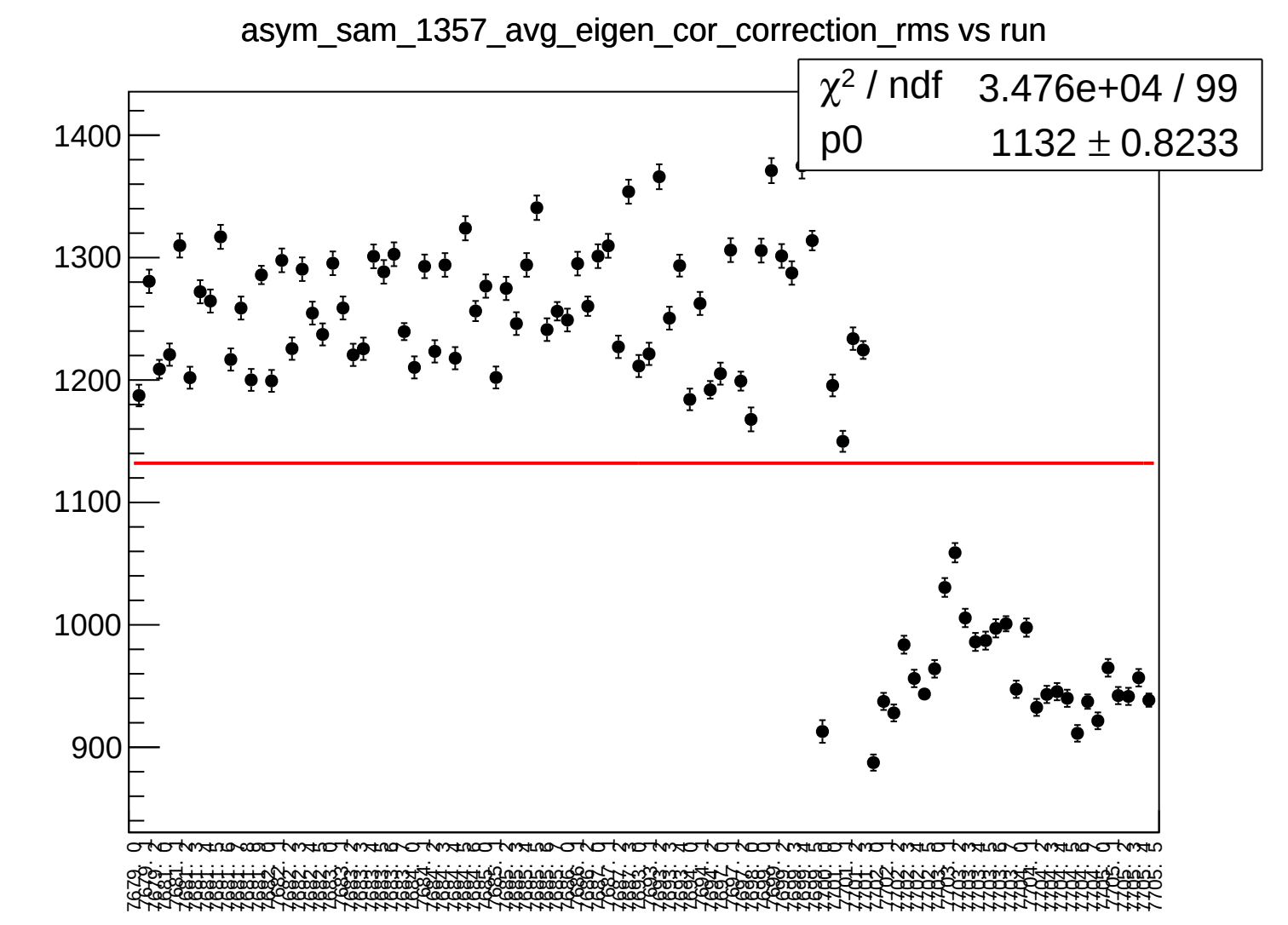

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 3.476e+04 / 99
p0 1132 ± 0.8233
1400
1300
1200
1100
1000
900

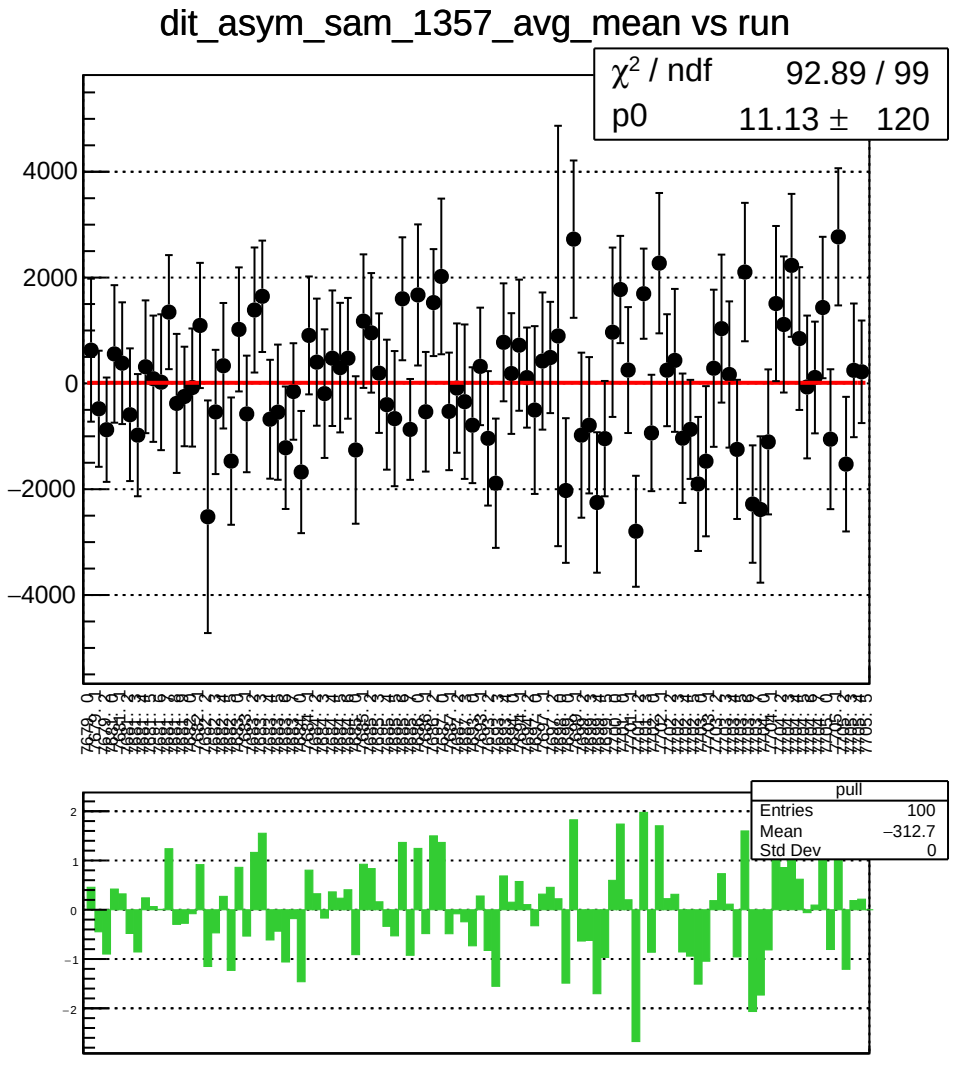

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 98.03 / 99
p0 35.14 ± 112.9
pull
Entries 100
Mean 199.9
Std Dev 0

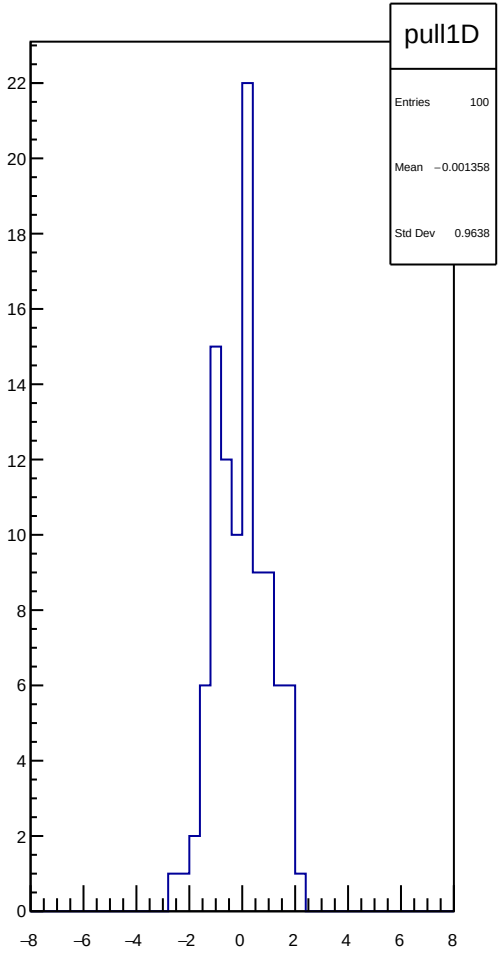

pull1D
Entries 100
Mean −0.007295
Std Dev 0.9901

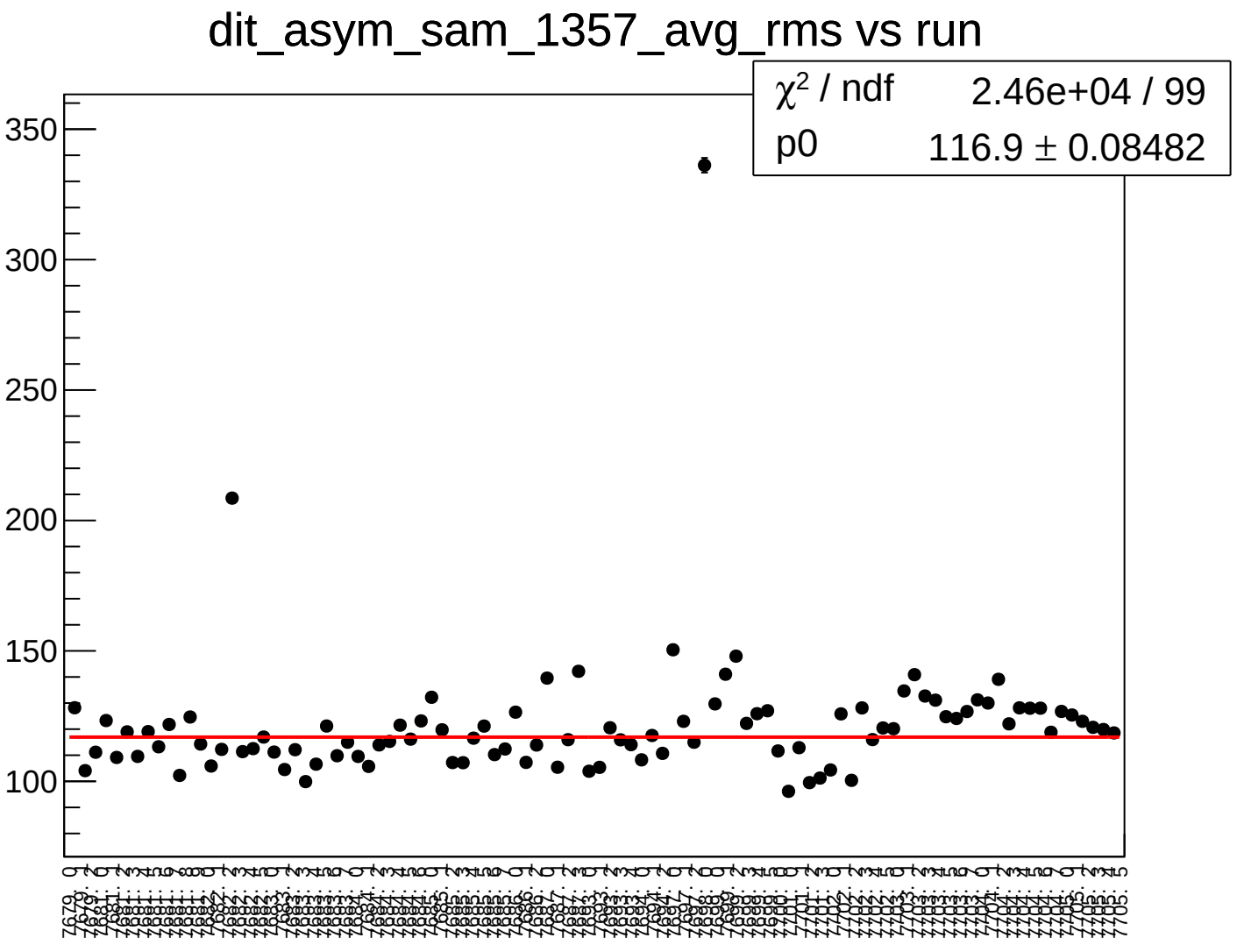

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 2.396e+04 / 99
p0 110.1 ± 0.07986
240
220
200
180
160
140
120
100
80

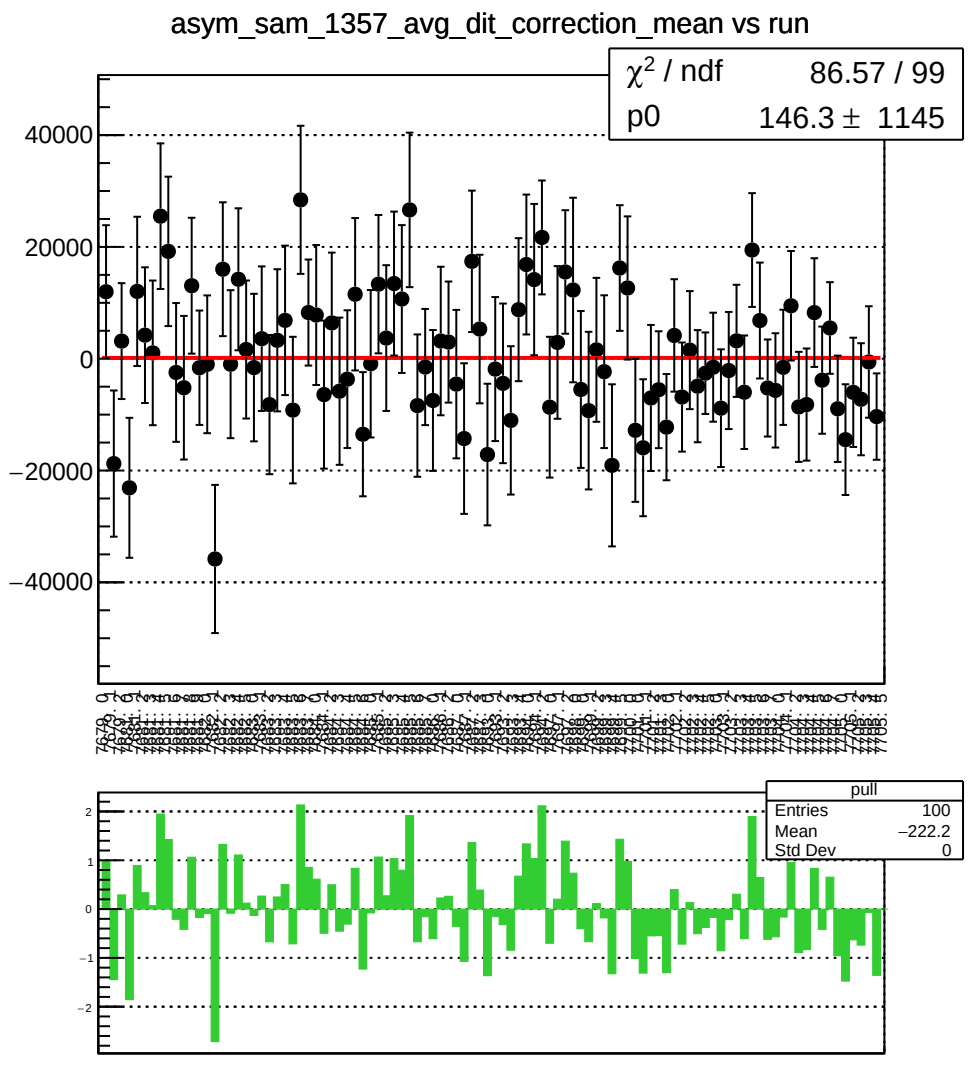

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 86.29 / 99
p0 105.7 ± 1164
40000
20000
0
−20000
−40000
−60000
pull
Entries 100
Mean −197.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.02127
Std Dev 0.9287
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

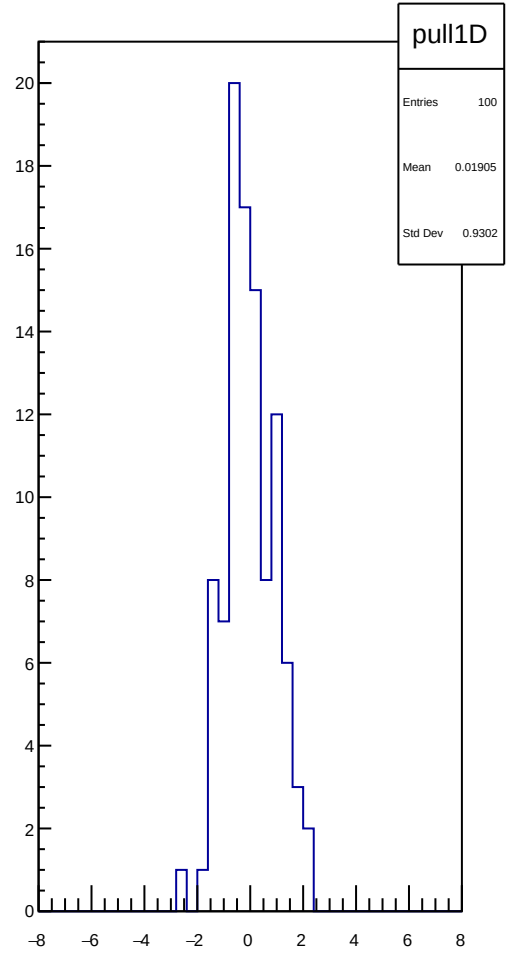

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.476e+04 / 99
p0 1132 ± 0.8233
1400
1300
1200
1100
1000
900

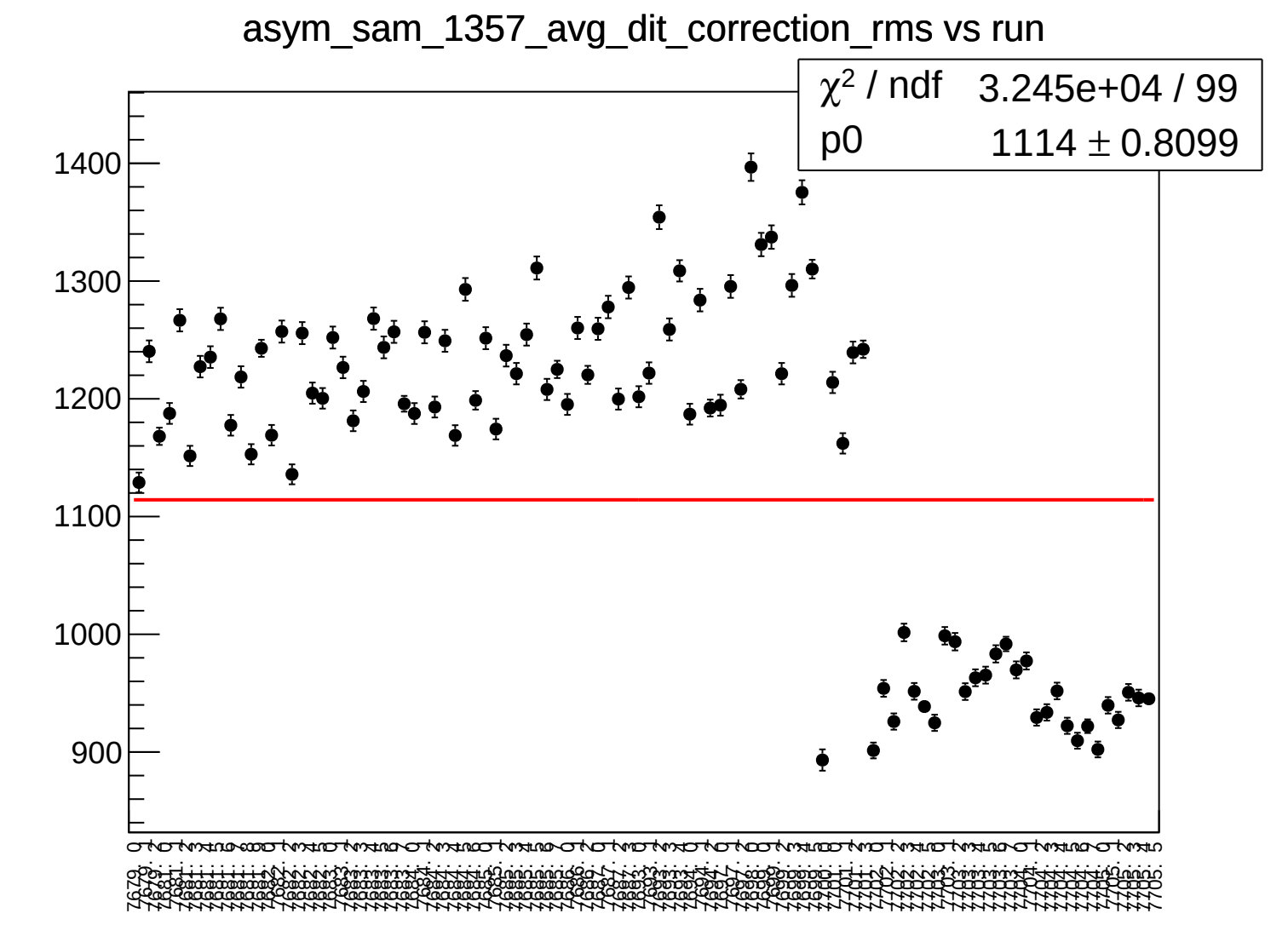

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 92.89 / 99
p0 11.13 ± 120
4000
2000
0
−2000
−4000
pull
Entries 100
Mean −312.7
Std Dev 0
2
1
0
−1
−2

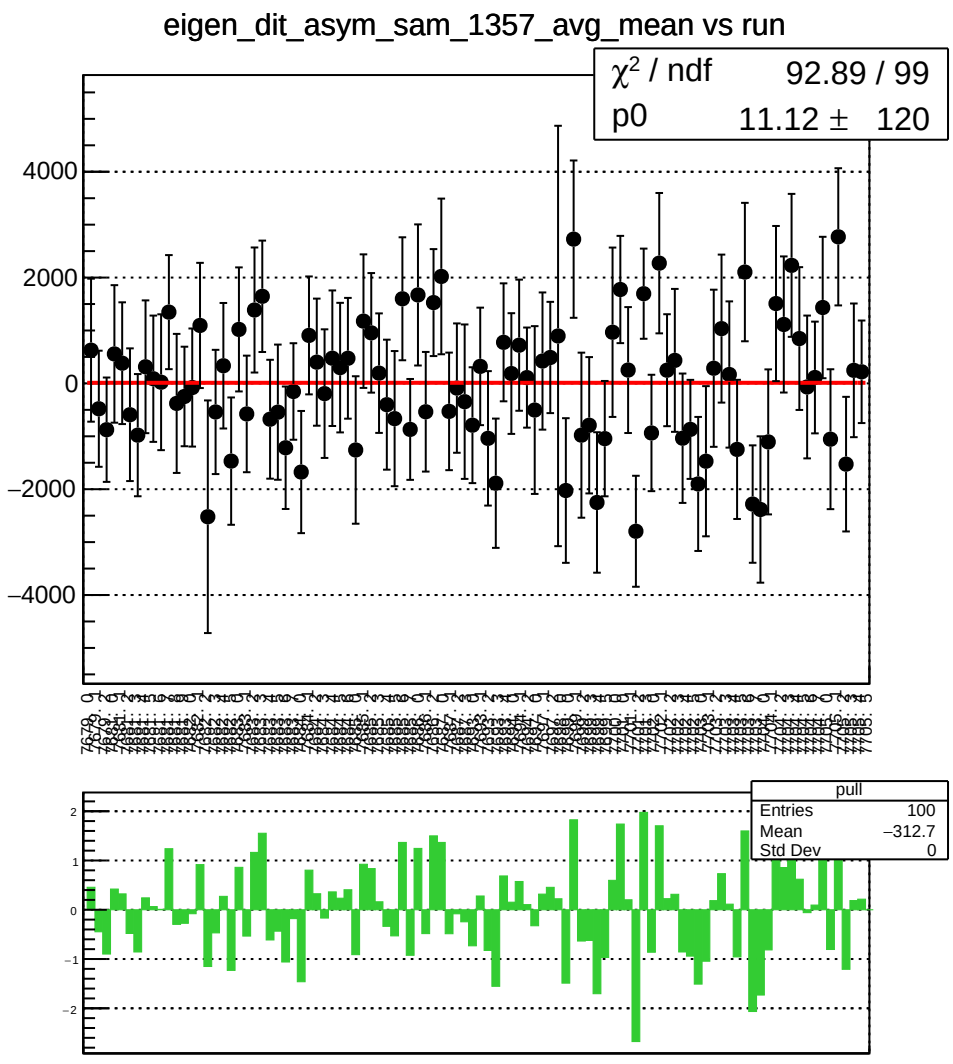

pull1D
Entries 100
Mean −0.001358
Std Dev 0.9638
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

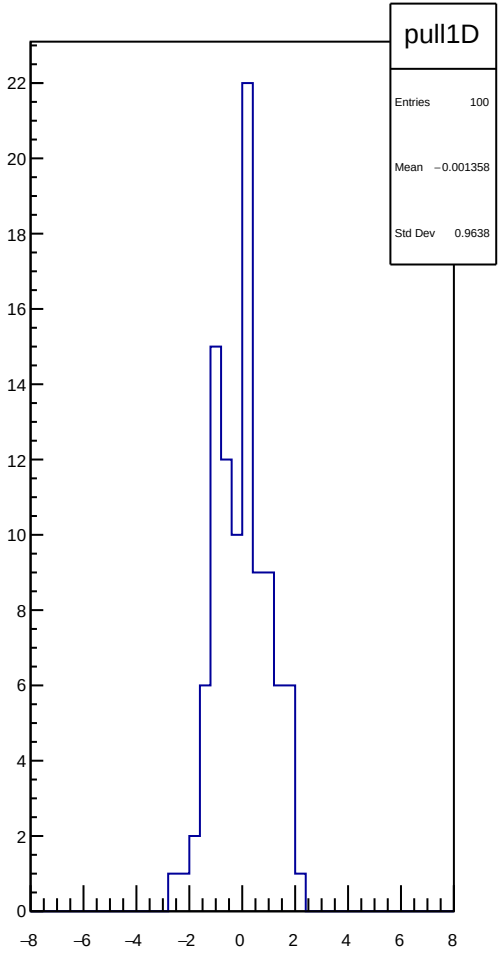

dit_asym_sam_1357_avg_rms vs run
χ^2 / ndf 2.46e+04 / 99
p0 116.9 ± 0.08482
350
300
250
200
150
100

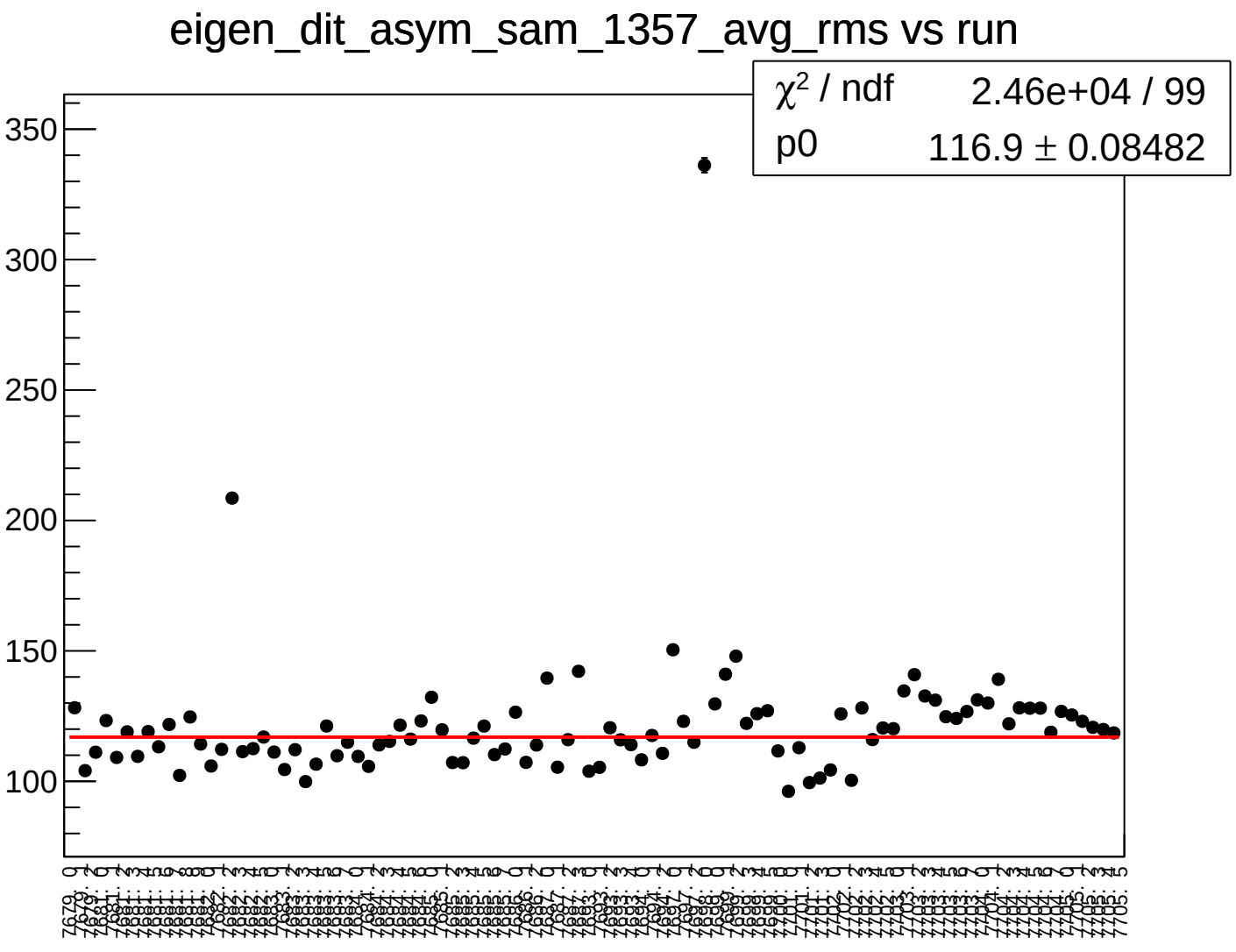

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 86.57 / 99
p0 146.3 ± 1145
40000
20000
0
−20000
−40000
pull
Entries 100
Mean −222.2
Std Dev 0
2
1
0
−1
−2

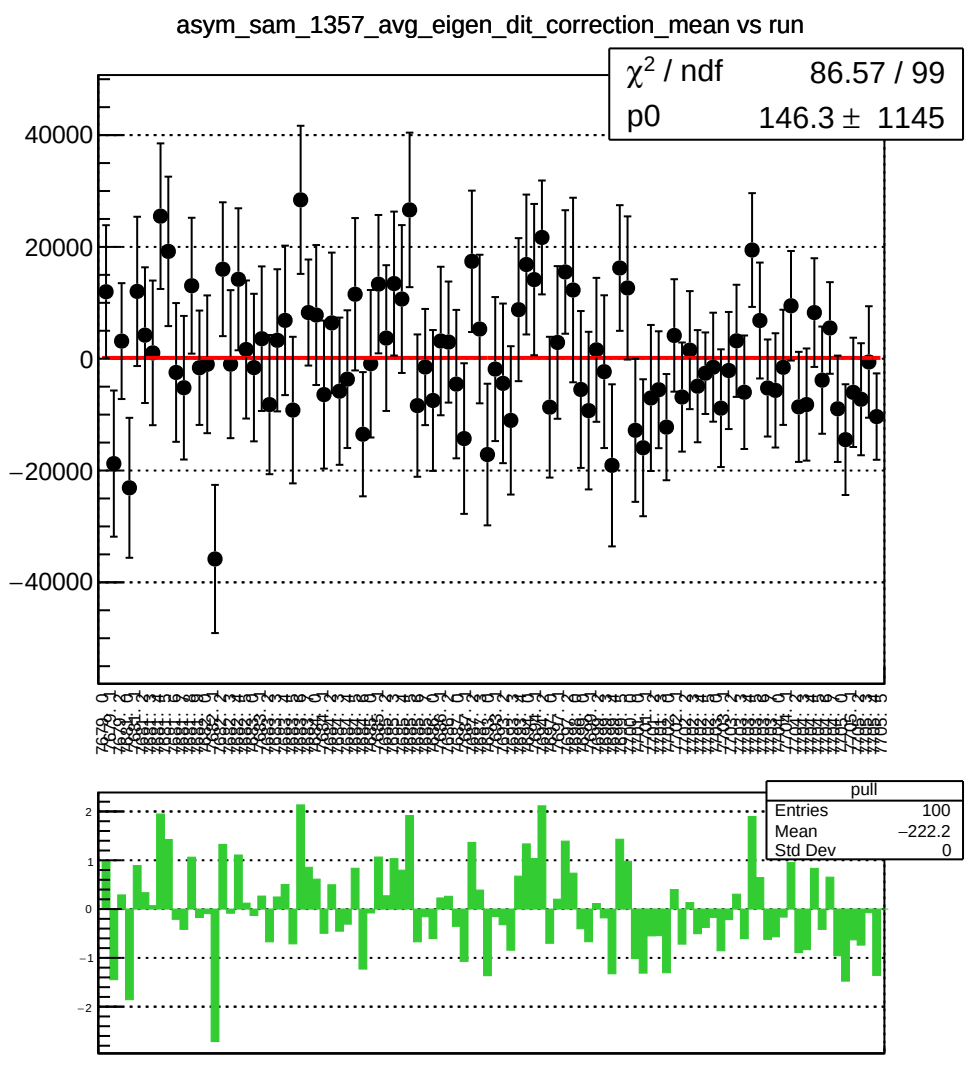

pull1D
Entries 100
Mean 0.01905
Std Dev 0.9302
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

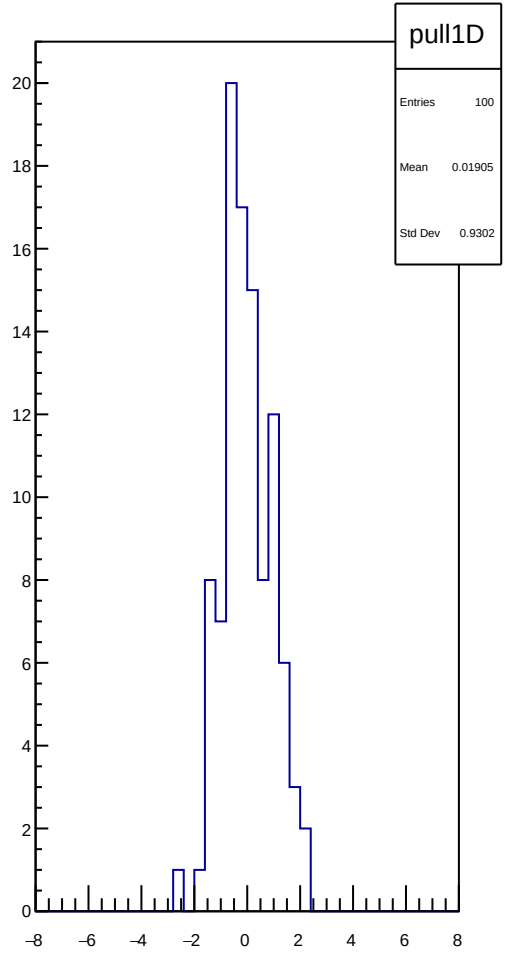

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 3.245e+04 / 99
p0 1114 ± 0.8099
1400
1300
1200
1100
1000
900

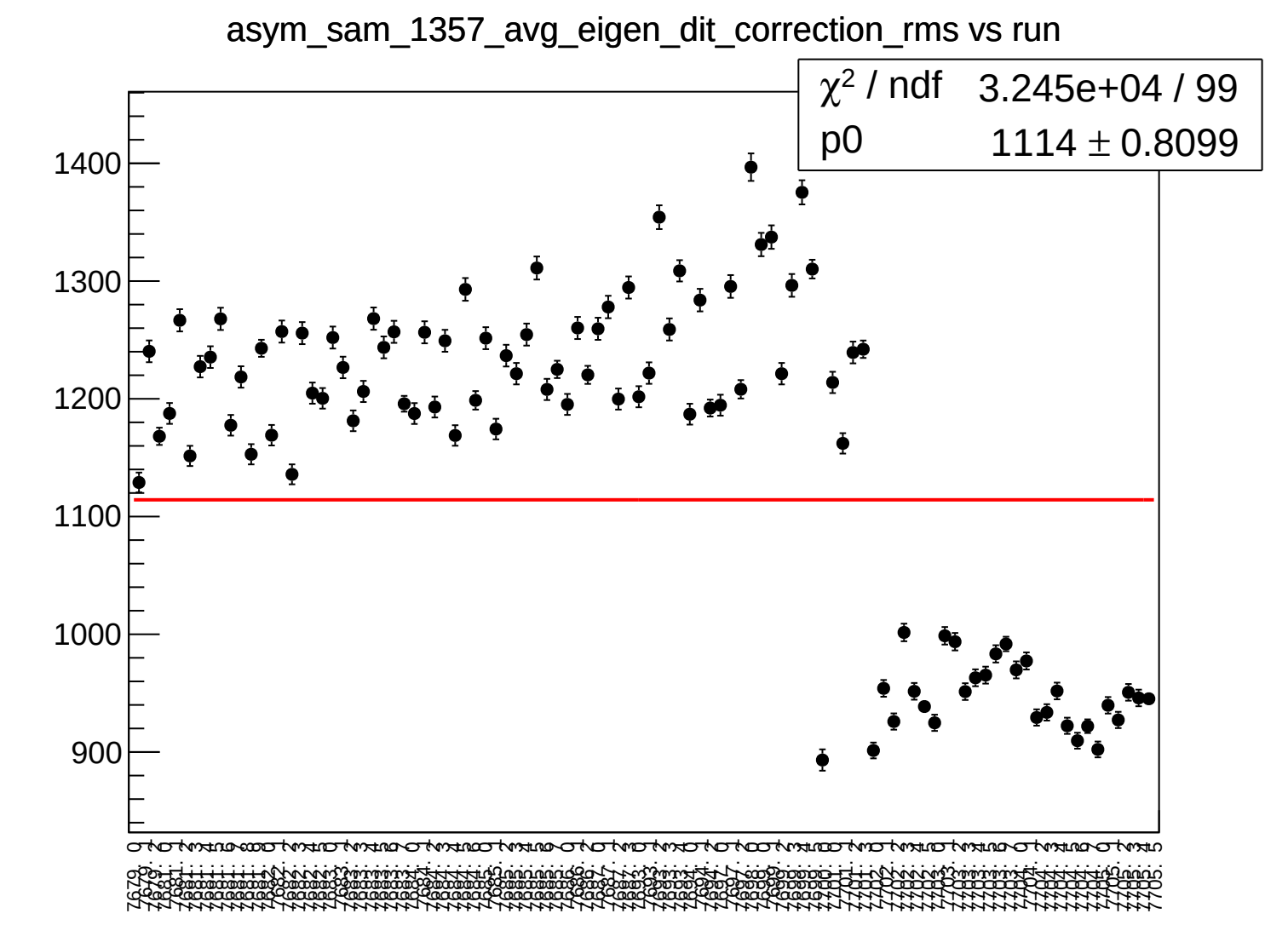

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 92.89 / 99
p0 11.12 ± 120
4000
2000
0
−2000
−4000
pull
Entries 100
Mean −312.7
Std Dev 0
2
1
0
−1
−2

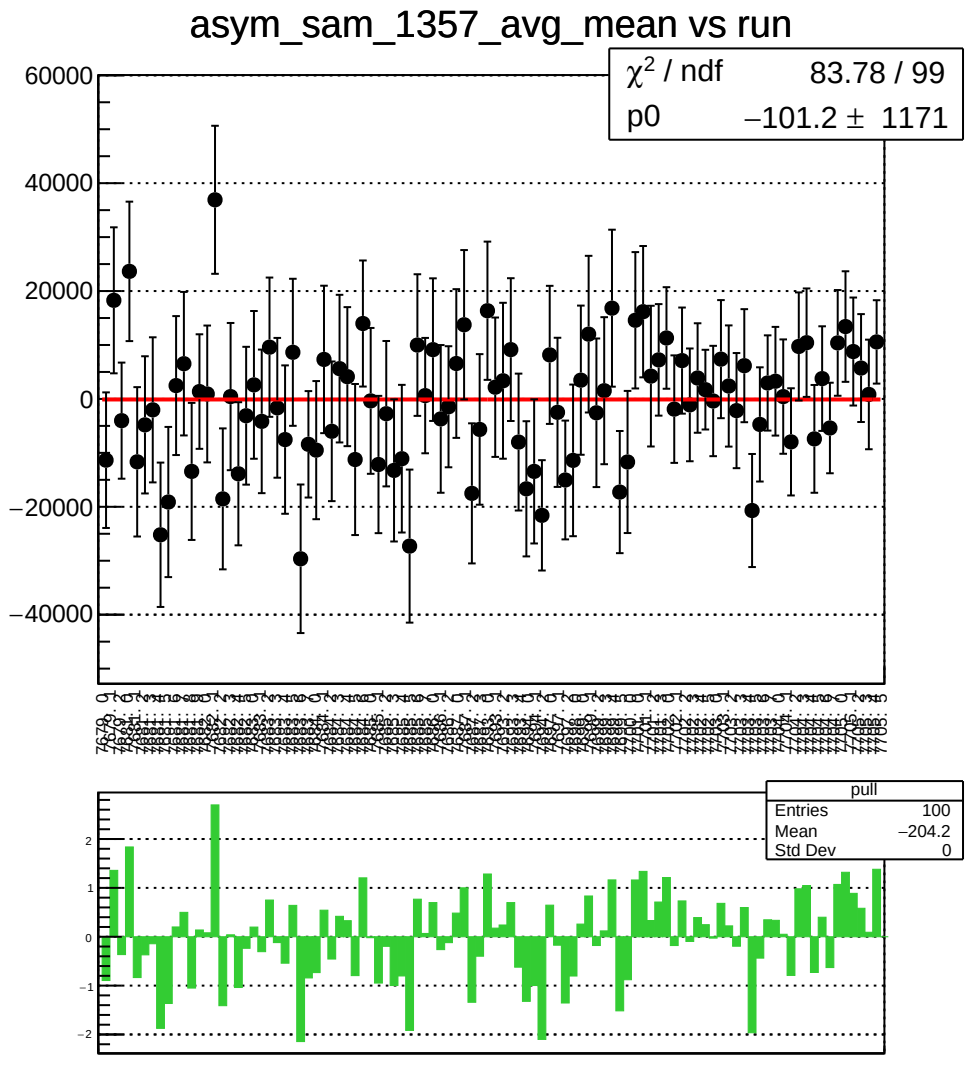

pull1D
Entries 100
Mean −0.001358
Std Dev 0.9638
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

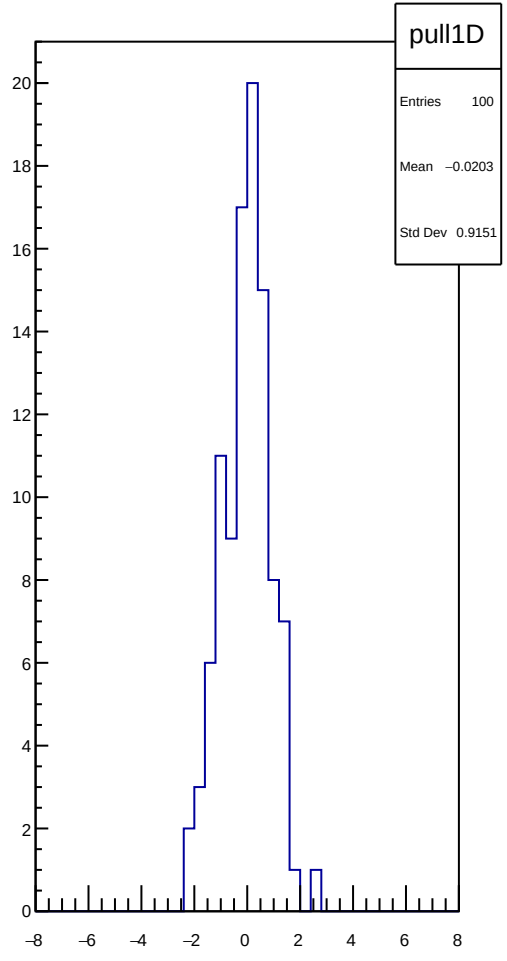

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 2.46e+04 / 99
p0 116.9 ± 0.08482
350
300
250
200
150
100

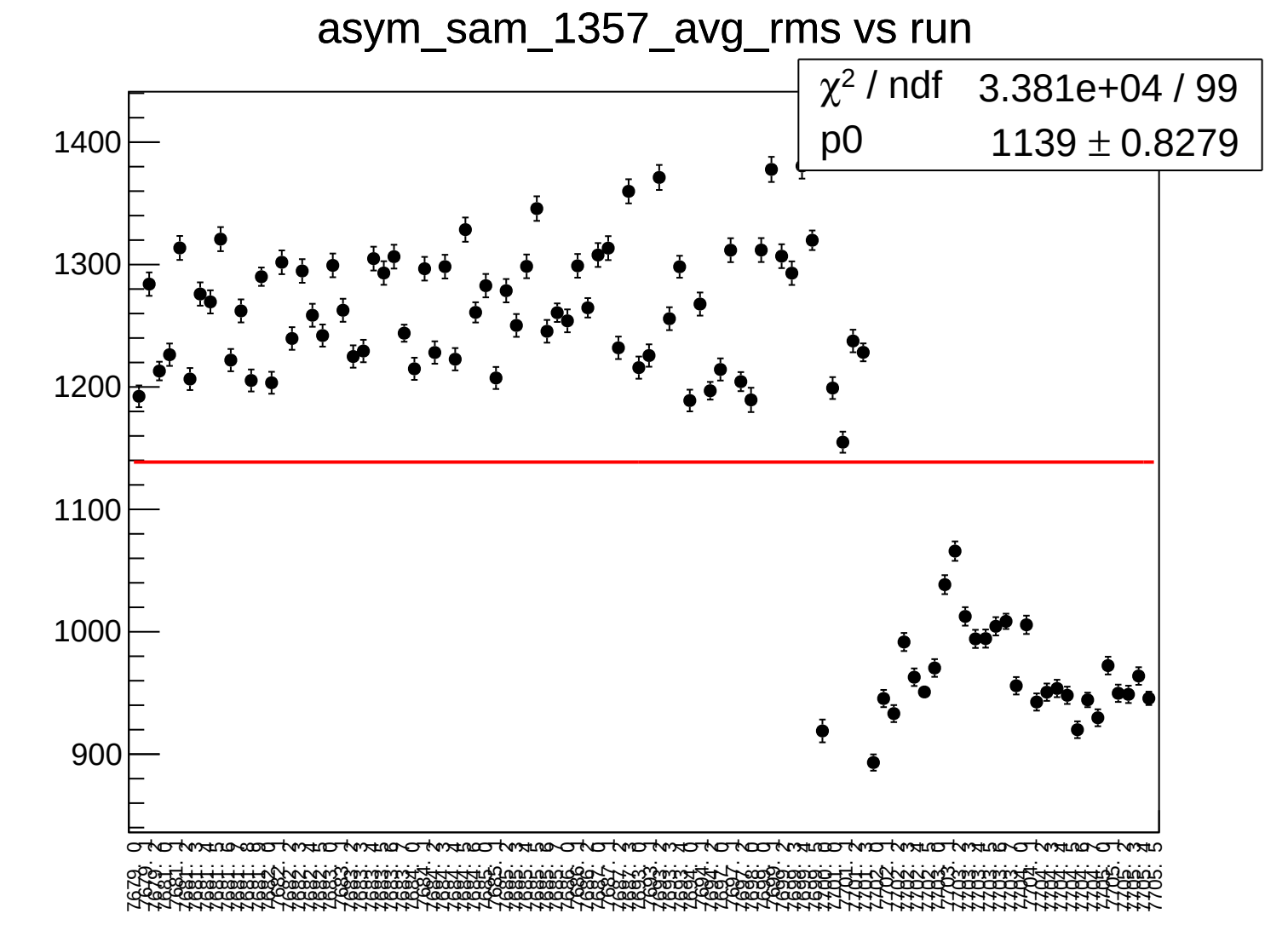

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 86.57 / 99
p0 146.3 ± 1145
40000
20000
0
−20000
−40000
pull
Entries 100
Mean −222.2
Std Dev 0
2
1
0
−1
−2

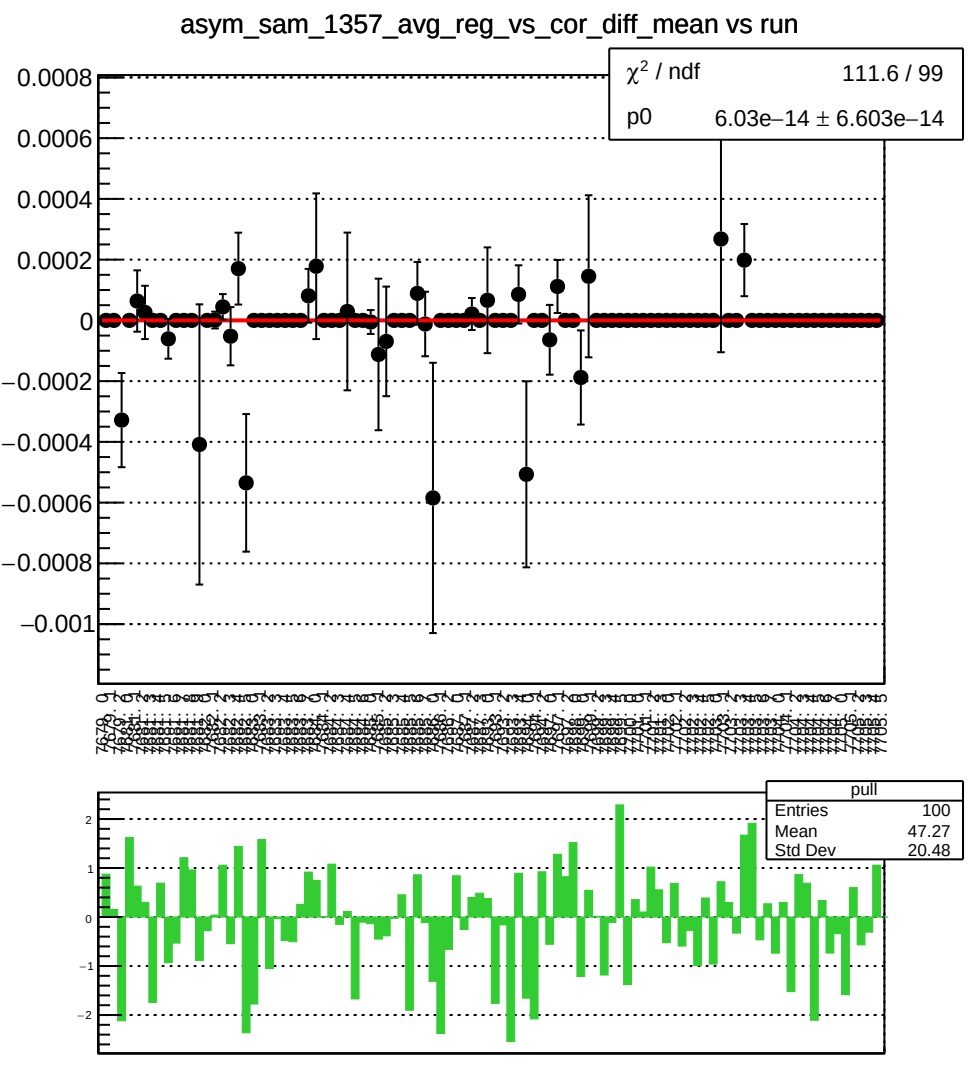

pull1D
Entries 100
Mean 0.01905
Std Dev 0.9302
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

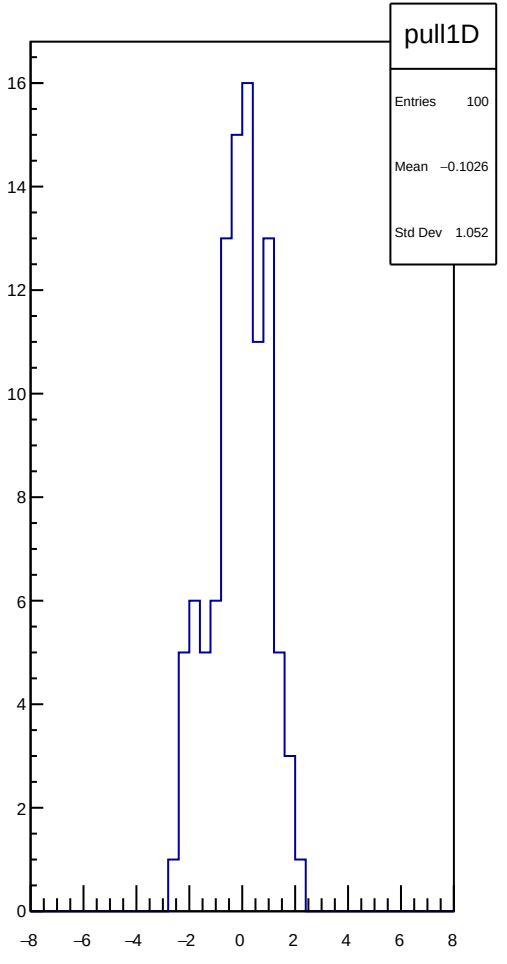

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.245e+04 / 99
p0 1114 ± 0.8099
1400
1300
1200
1100
1000
900

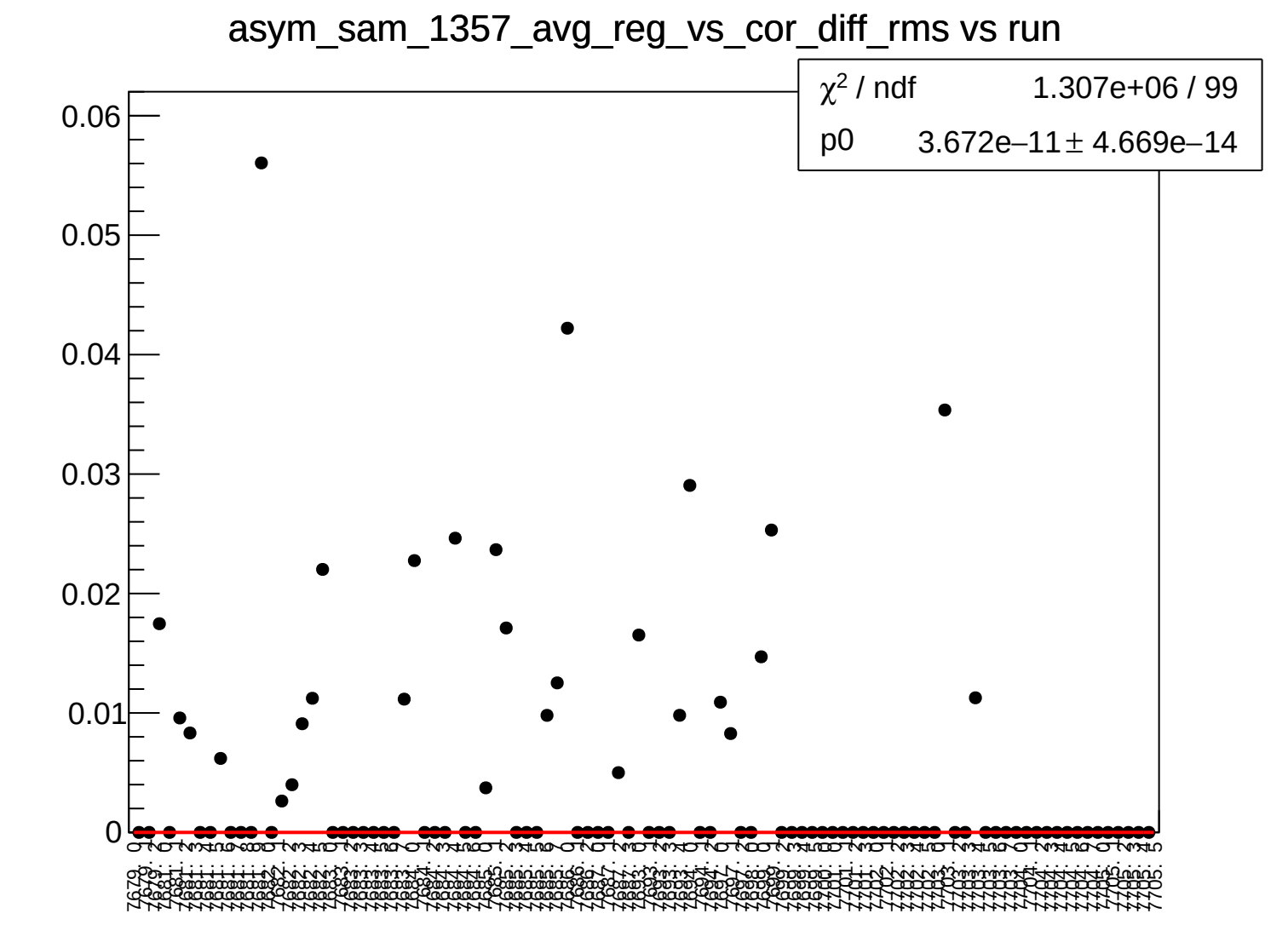

asym_sam_1357_avg_mean vs run
χ² / ndf 83.78 / 99
p0 −101.2 ± 1171
60000
40000
20000
0
−20000
−40000
pull
Entries 100
Mean −204.2
Std Dev 0
2
1
0
−1
−2

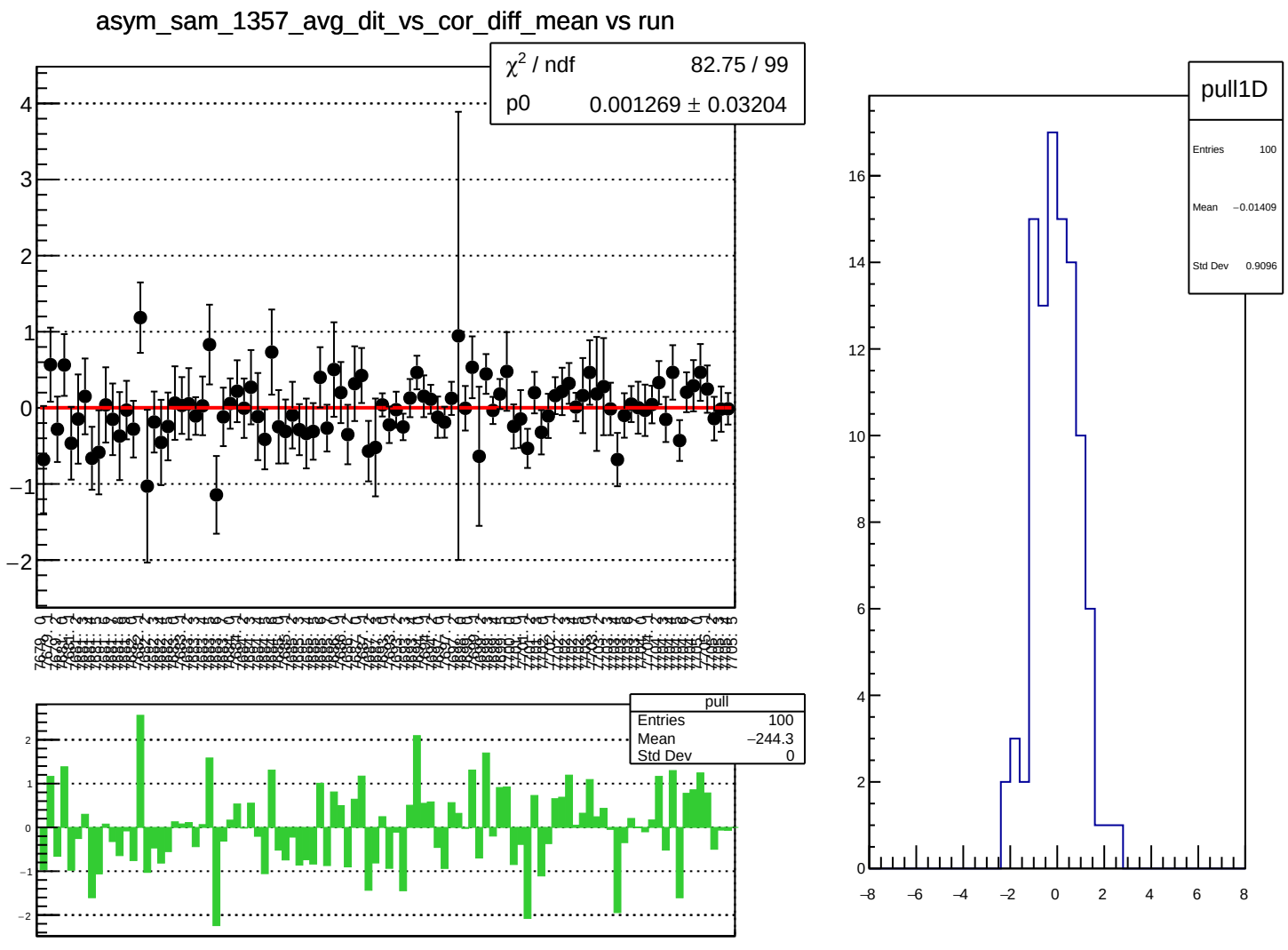

pull1D
Entries 100
Mean −0.0203
Std Dev 0.9151
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

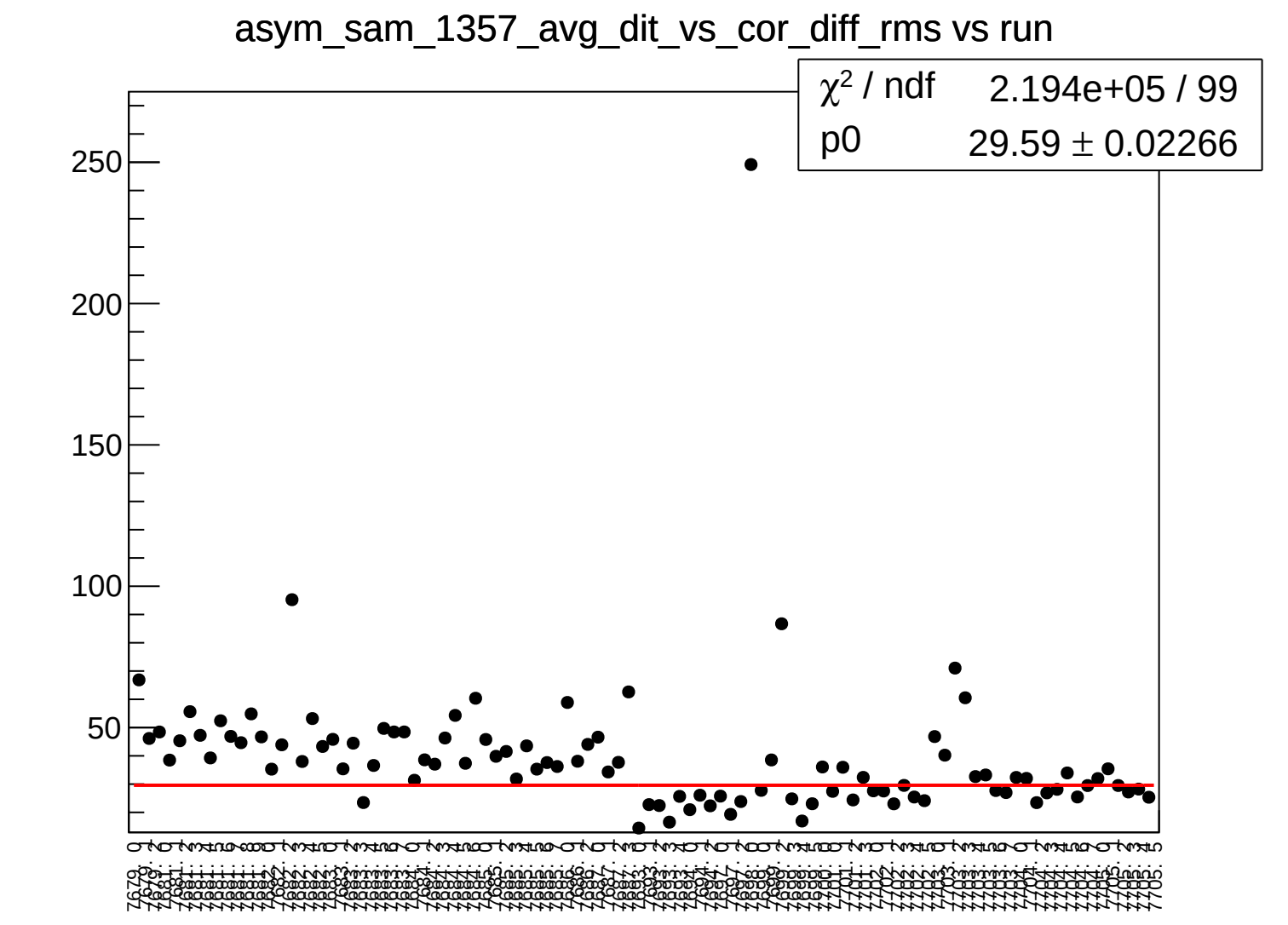

asym_sam_1357_avg_rms vs run
χ² / ndf 3.381e+04 / 99
p0 1139 ± 0.8279
1400
1300
1200
1100
1000
900

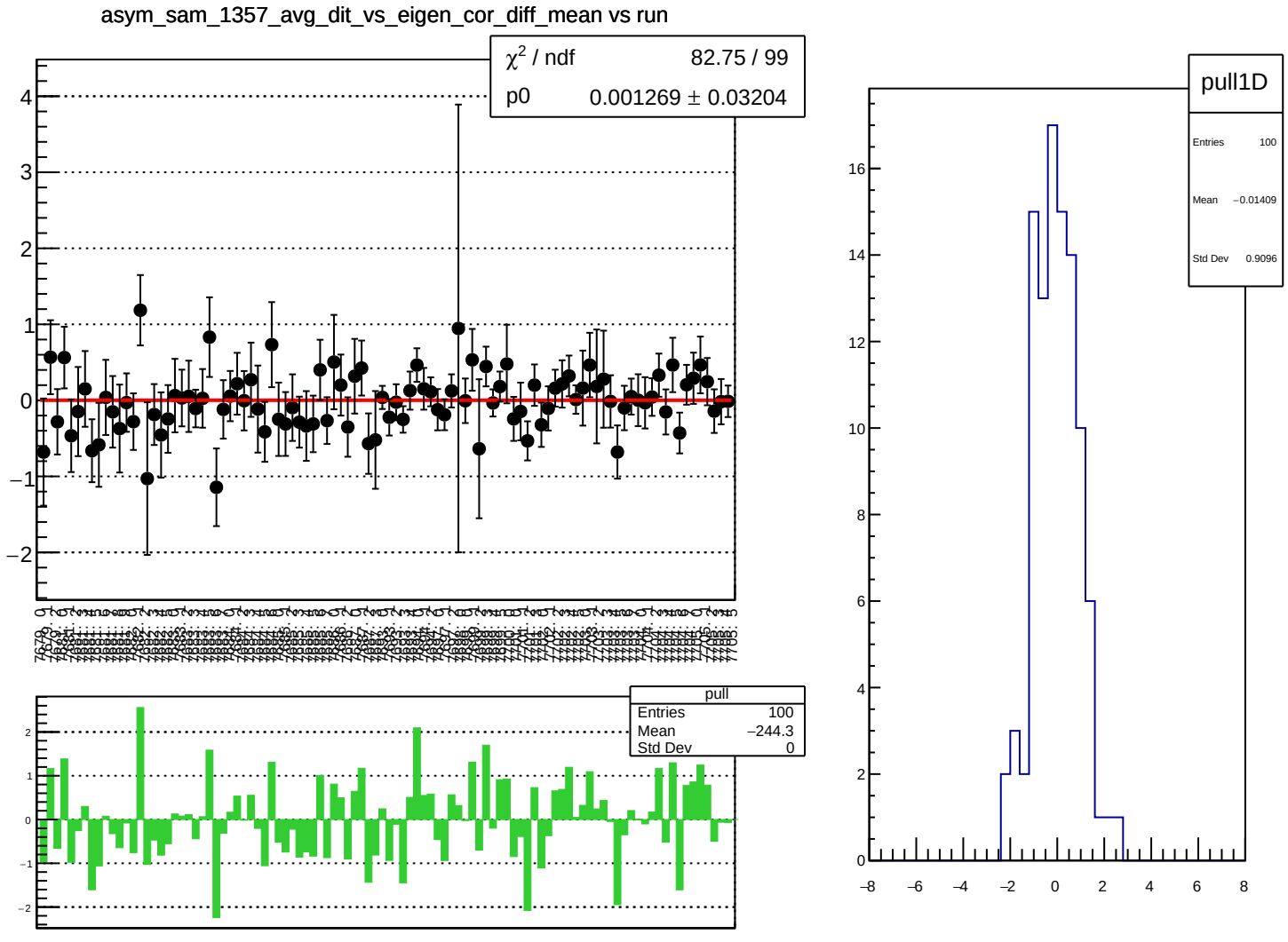

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 111.6 / 99
p0 6.03e−14 ± 6.603e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 100
Mean 47.27
Std Dev 20.48
2
1
0
−1
−2

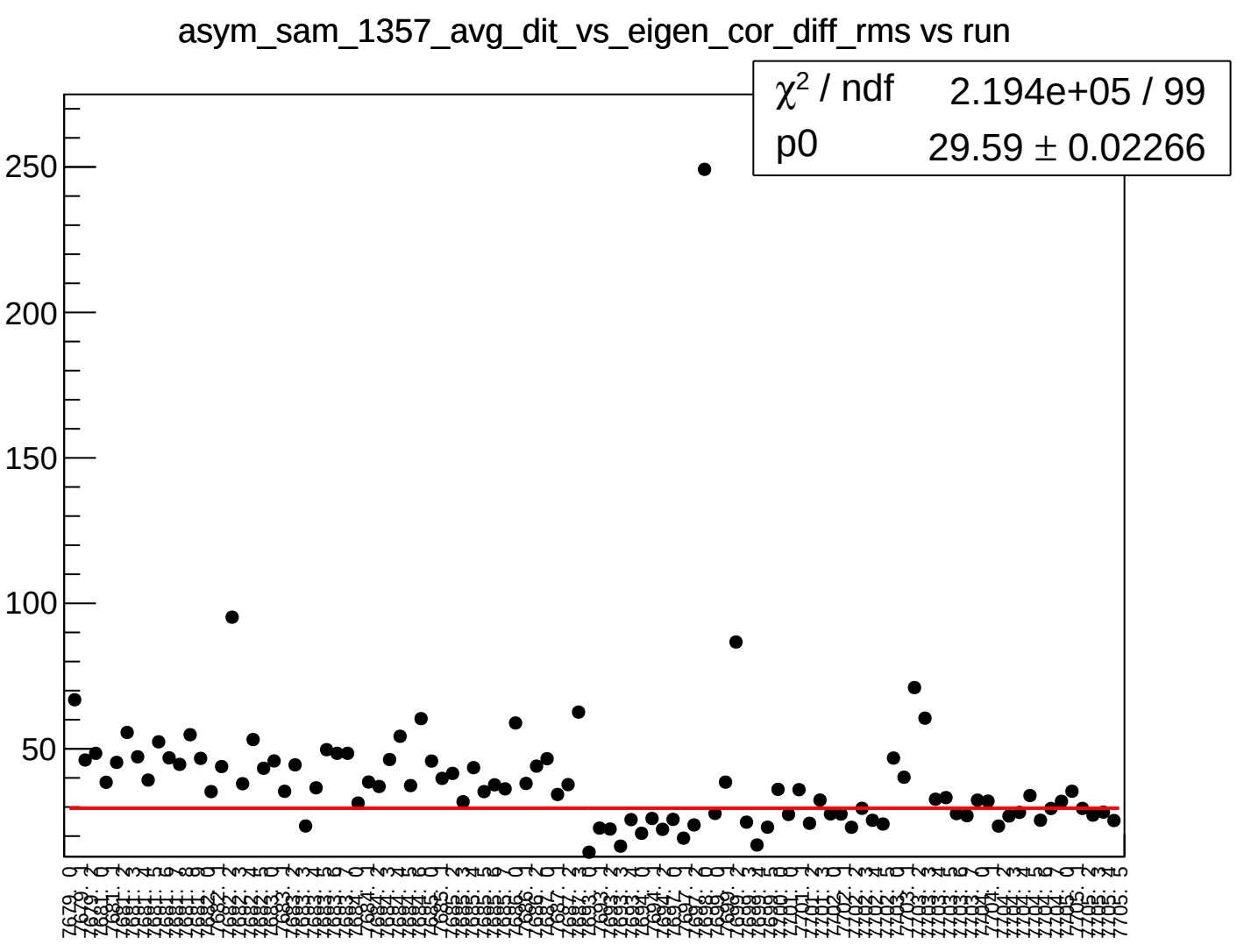

pull1D
Entries 100
Mean −0.1026
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

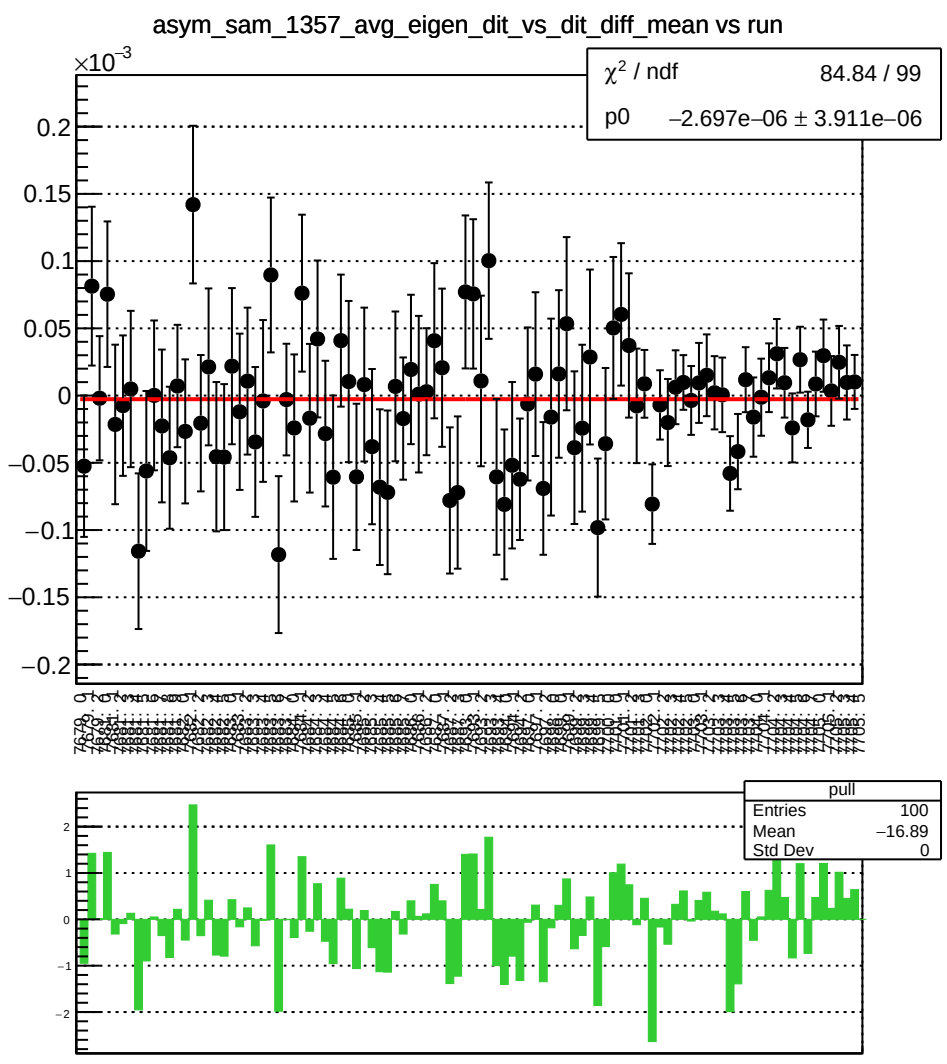

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.307e+06 / 99
p0 3.672e−11 ± 4.669e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

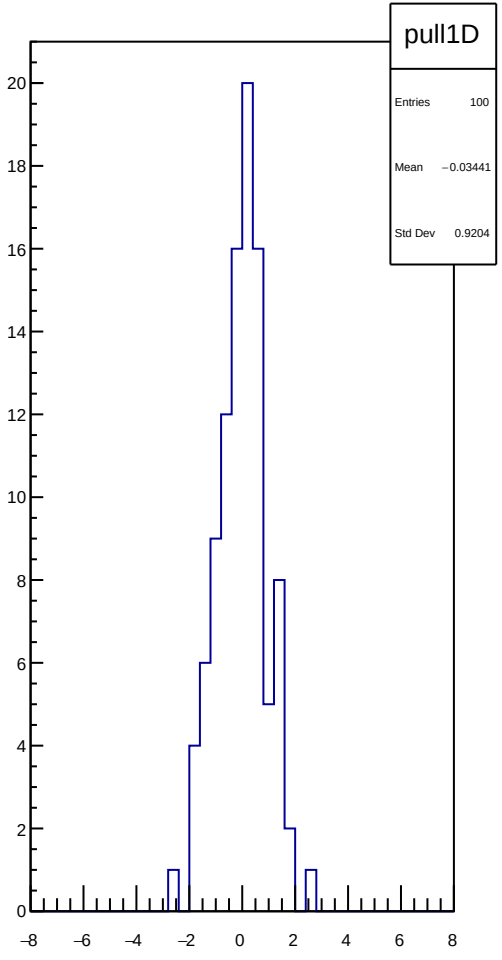

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.75 / 99
p0 0.001269 ± 0.03204
pull
Entries 100
Mean −244.3
Std Dev 0
pull1D
Entries 100
Mean −0.01409
Std Dev 0.9096

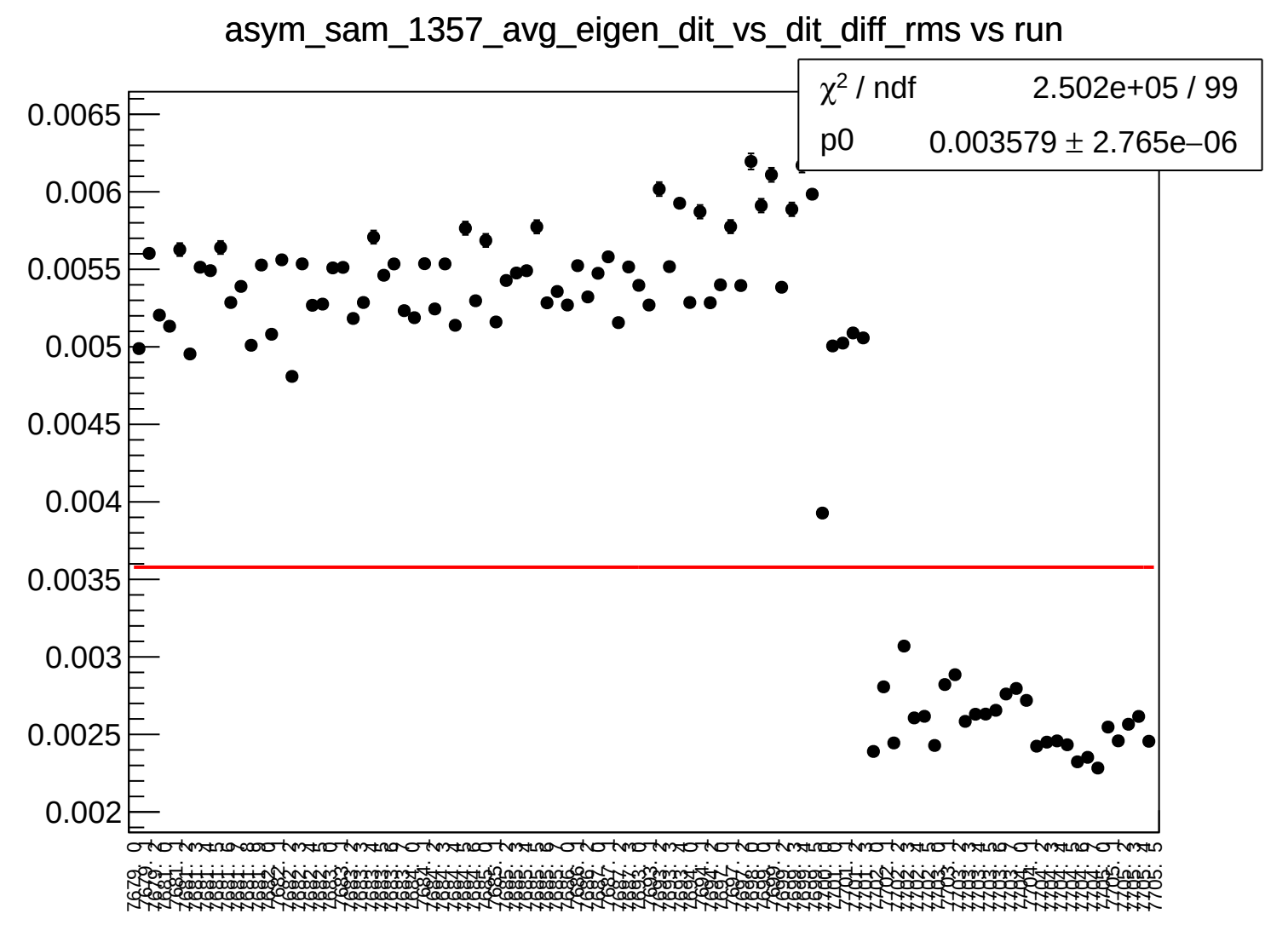

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.194e+05 / 99
p0 29.59 ± 0.02266
250
200
150
100
50

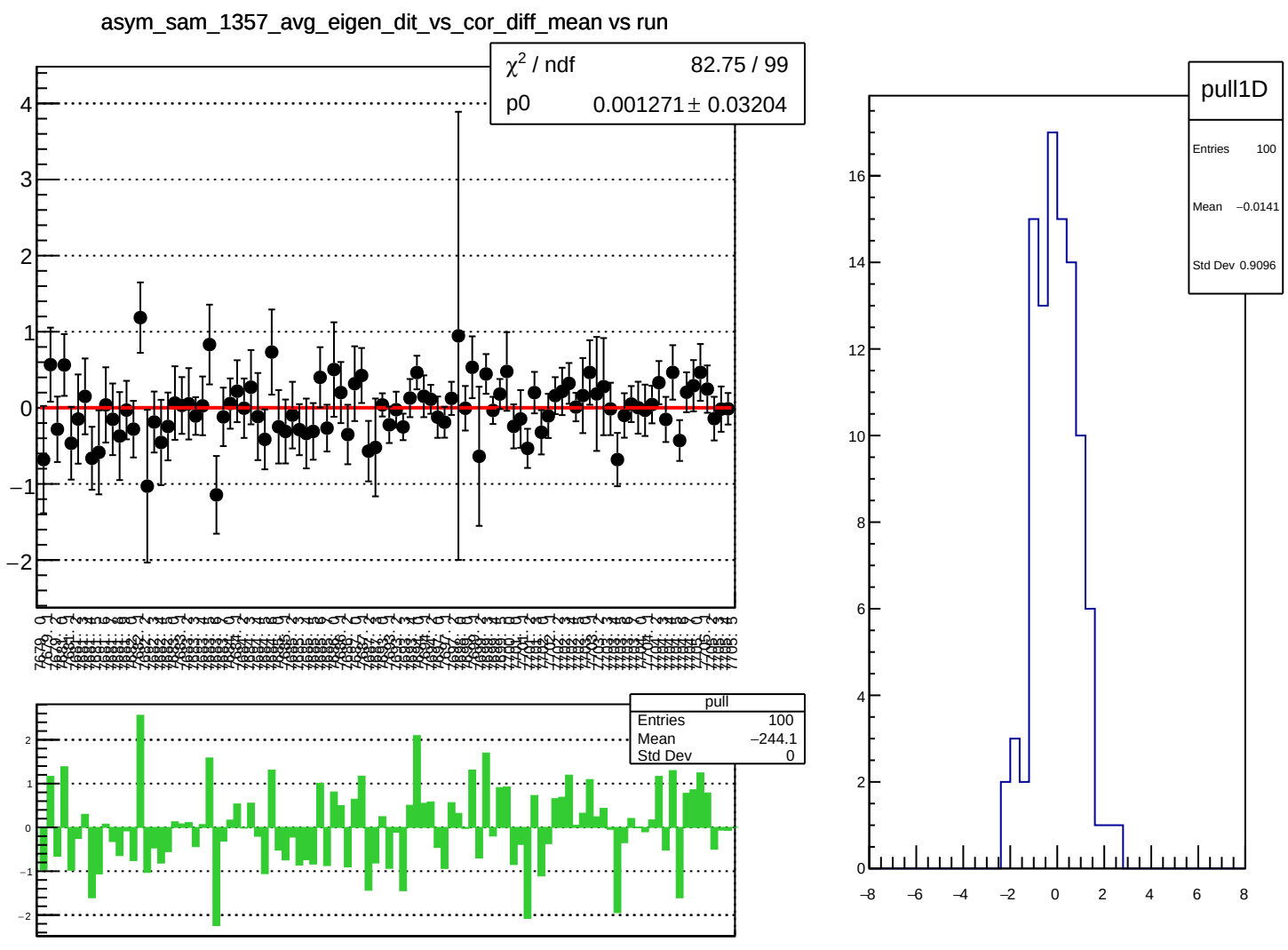

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.75 / 99
p0 0.001269 ± 0.03204
pull
Entries 100
Mean −244.3
Std Dev 0
pull1D
Entries 100
Mean −0.01409
Std Dev 0.9096

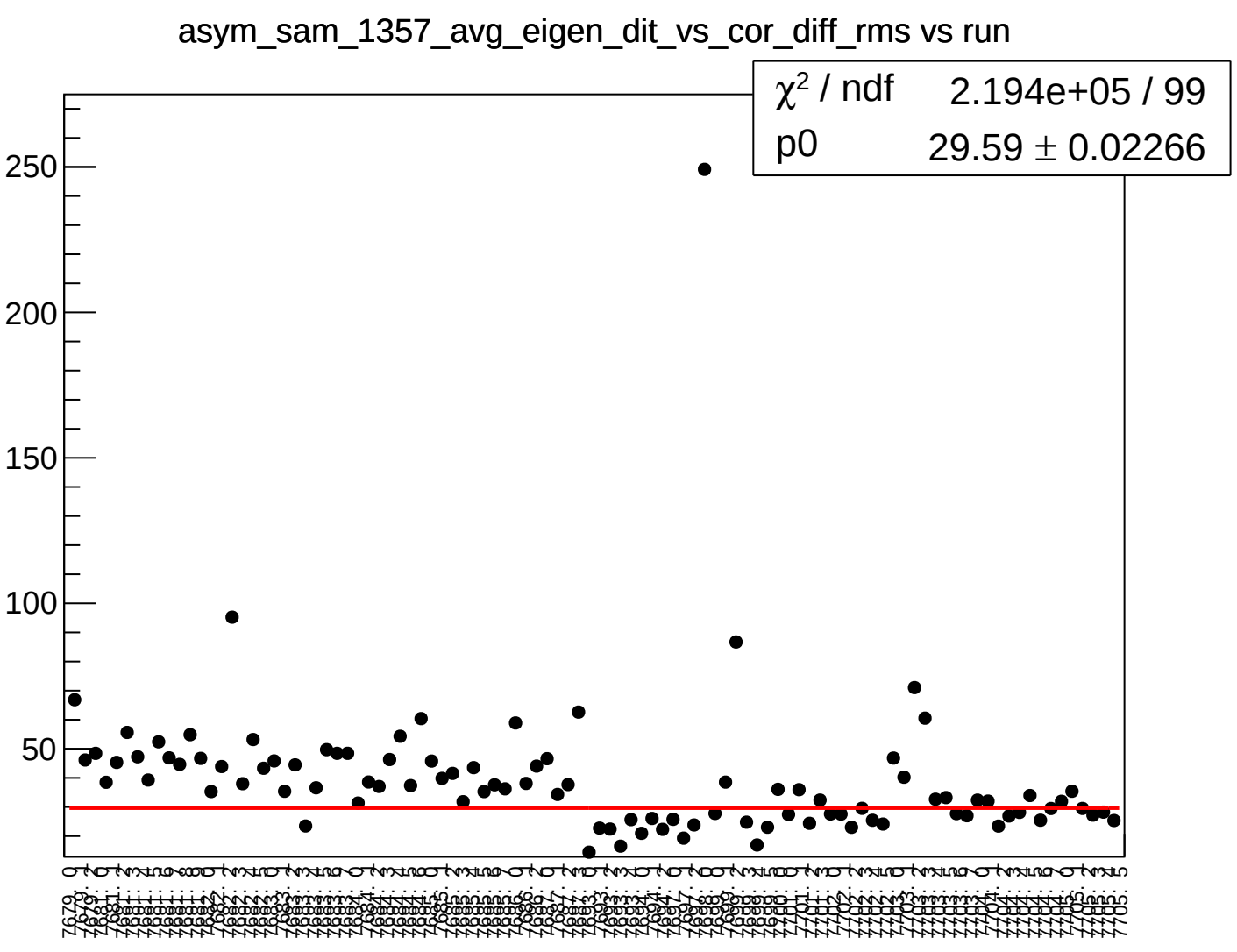

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.194e+05 / 99
p0 29.59 ± 0.02266
250
200
150
100
50

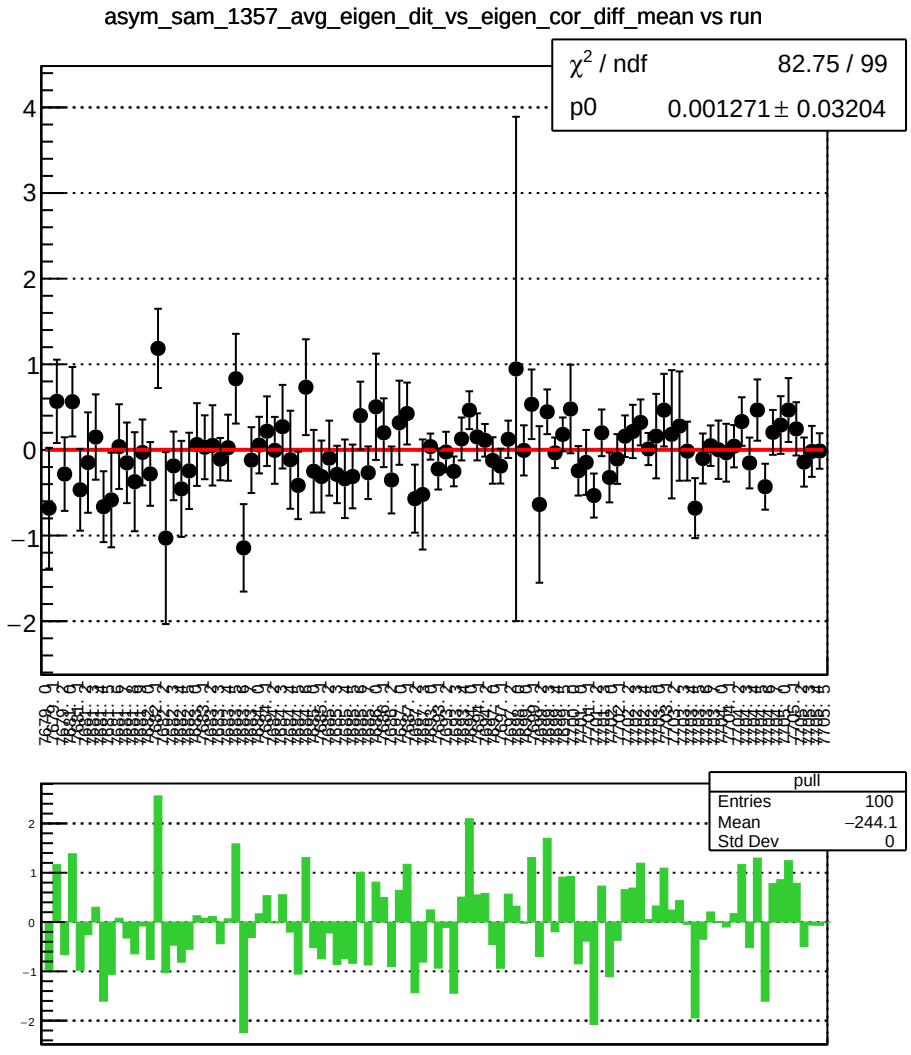

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.84 / 99
p0 −2.697e−06 ± 3.911e−06
pull
Entries 100
Mean −16.89
Std Dev 0

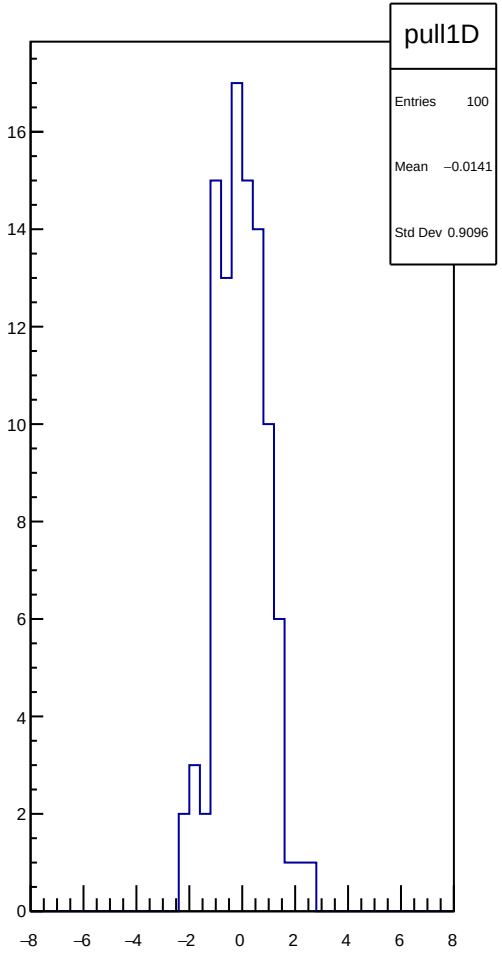

pull1D
Entries 100
Mean −0.03441
Std Dev 0.9204

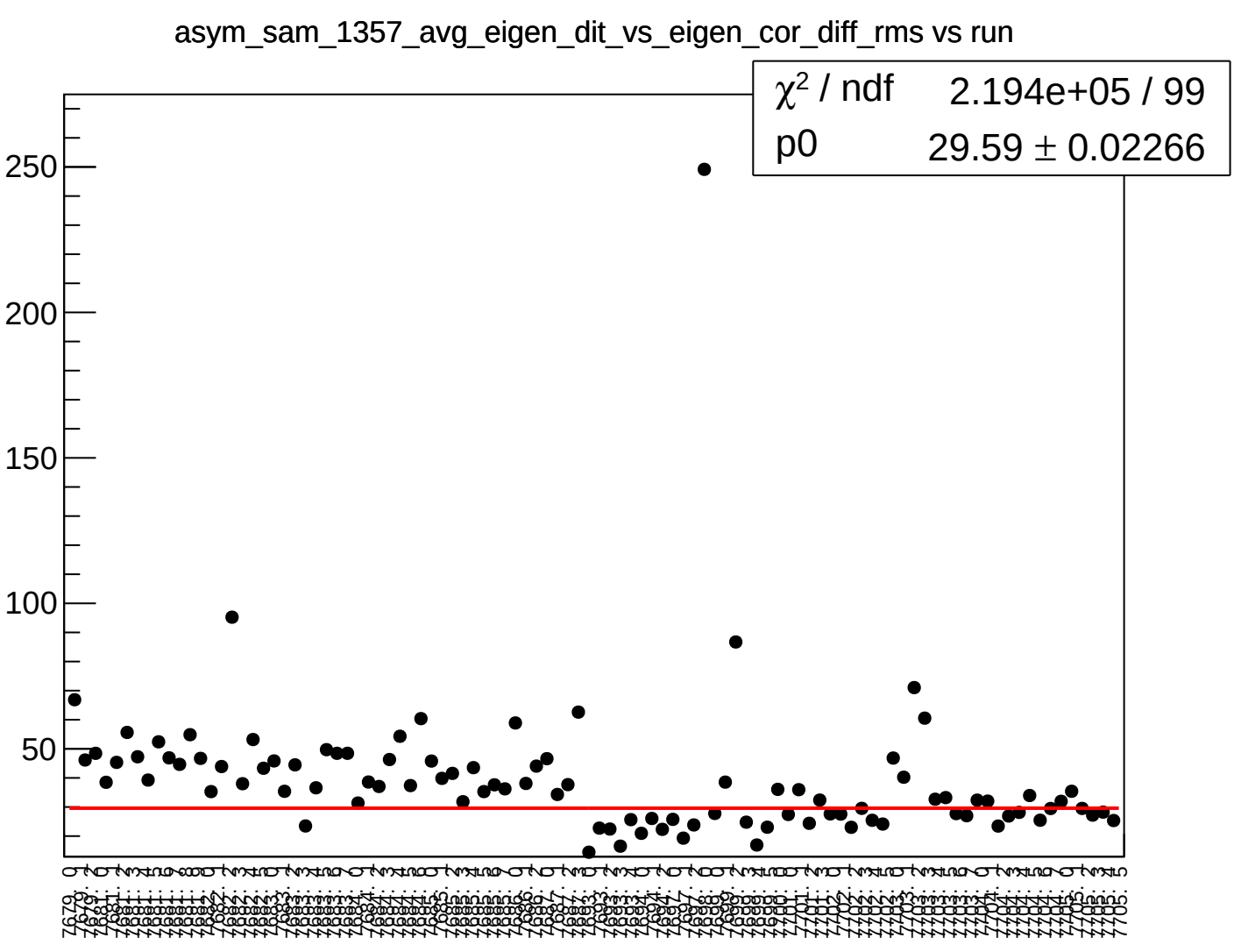

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.502e+05 / 99
p0 0.003579 ± 2.765e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

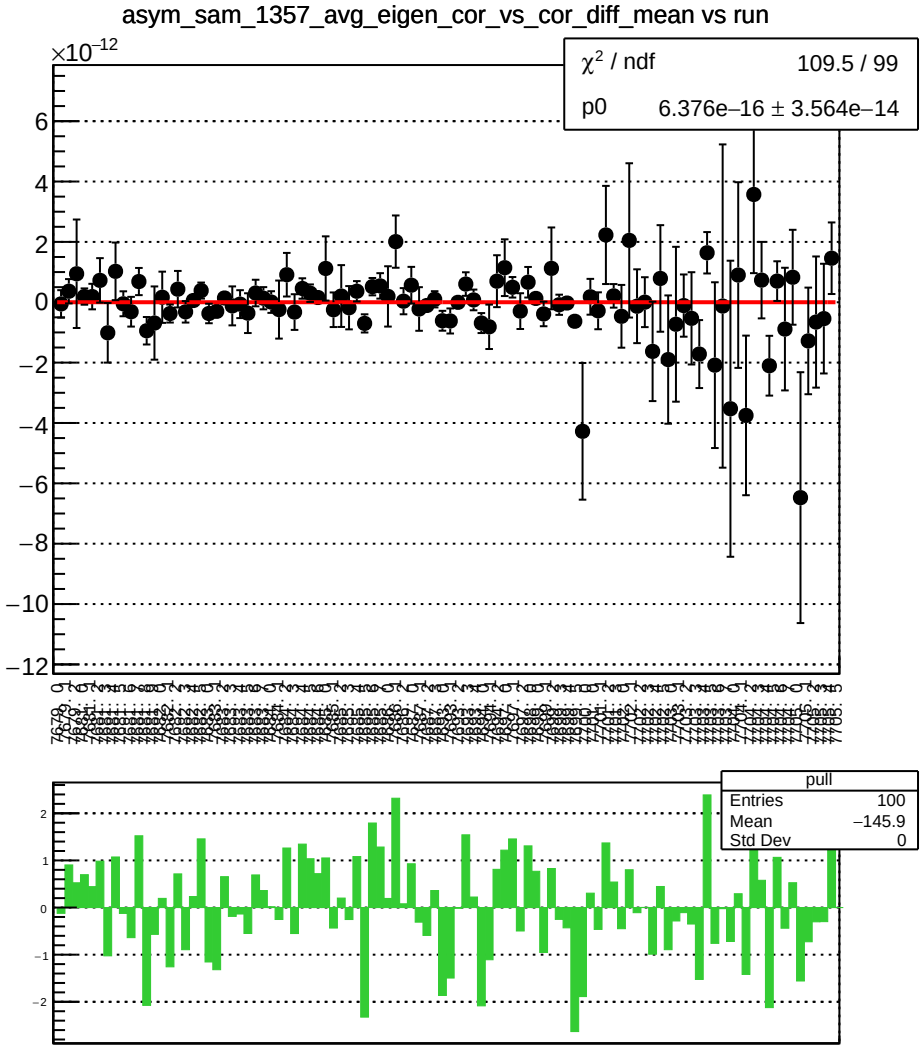

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.75 / 99
p0 0.001271 ± 0.03204
pull
Entries 100
Mean −244.1
Std Dev 0
pull1D
Entries 100
Mean −0.0141
Std Dev 0.9096

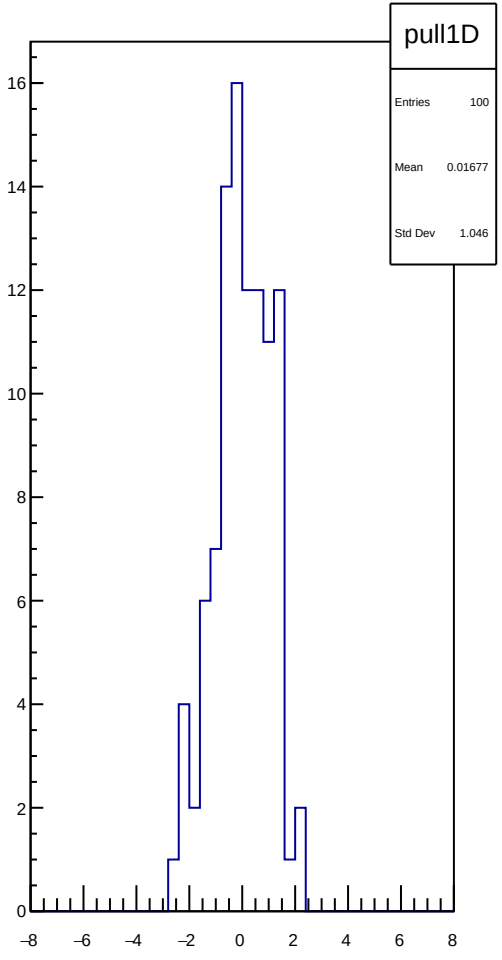

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.194e+05 / 99
p0 29.59 ± 0.02266
250
200
150
100
50

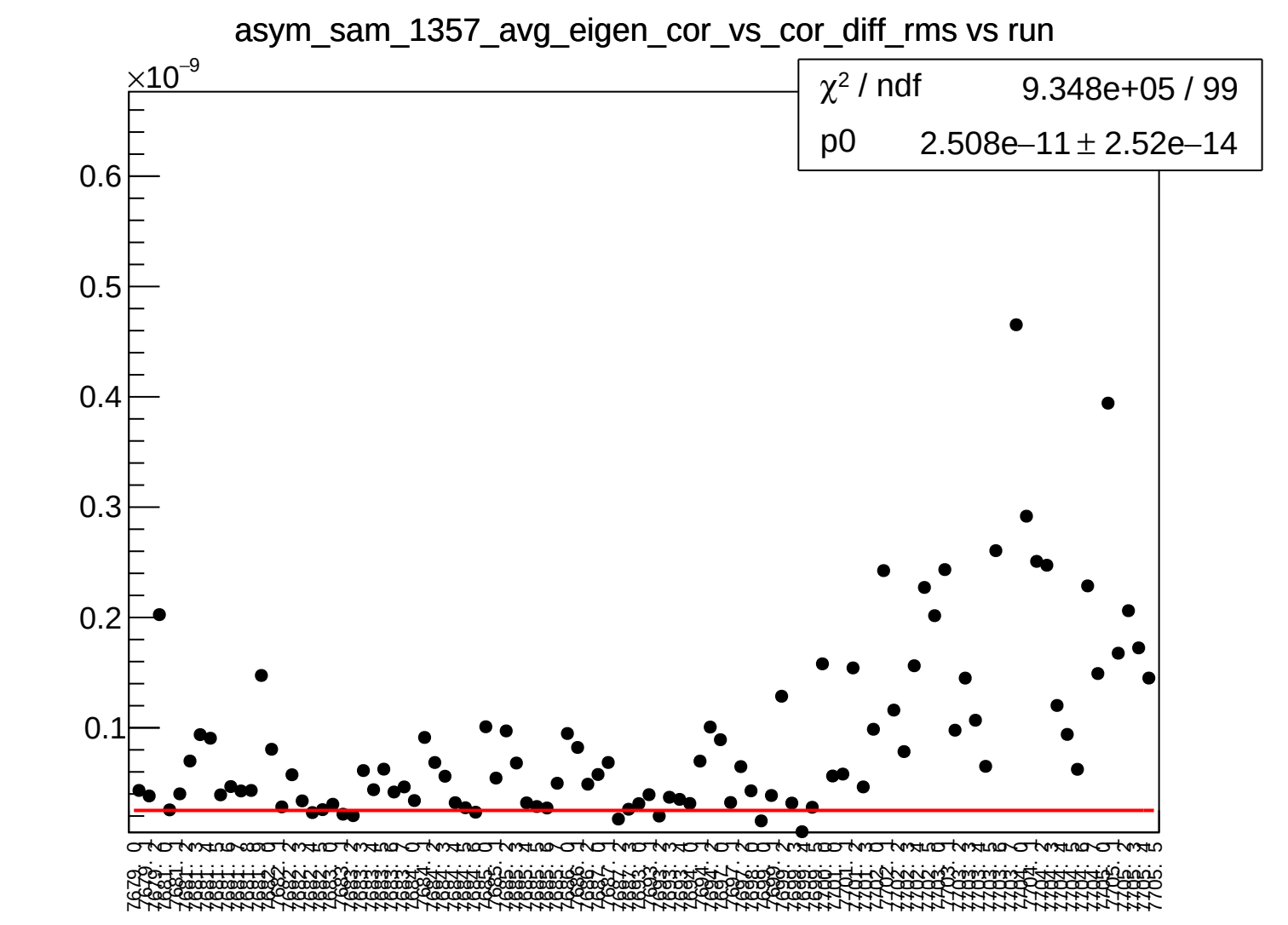

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.75 / 99
p0 0.001271 ± 0.03204
pull
Entries 100
Mean −244.1
Std Dev 0

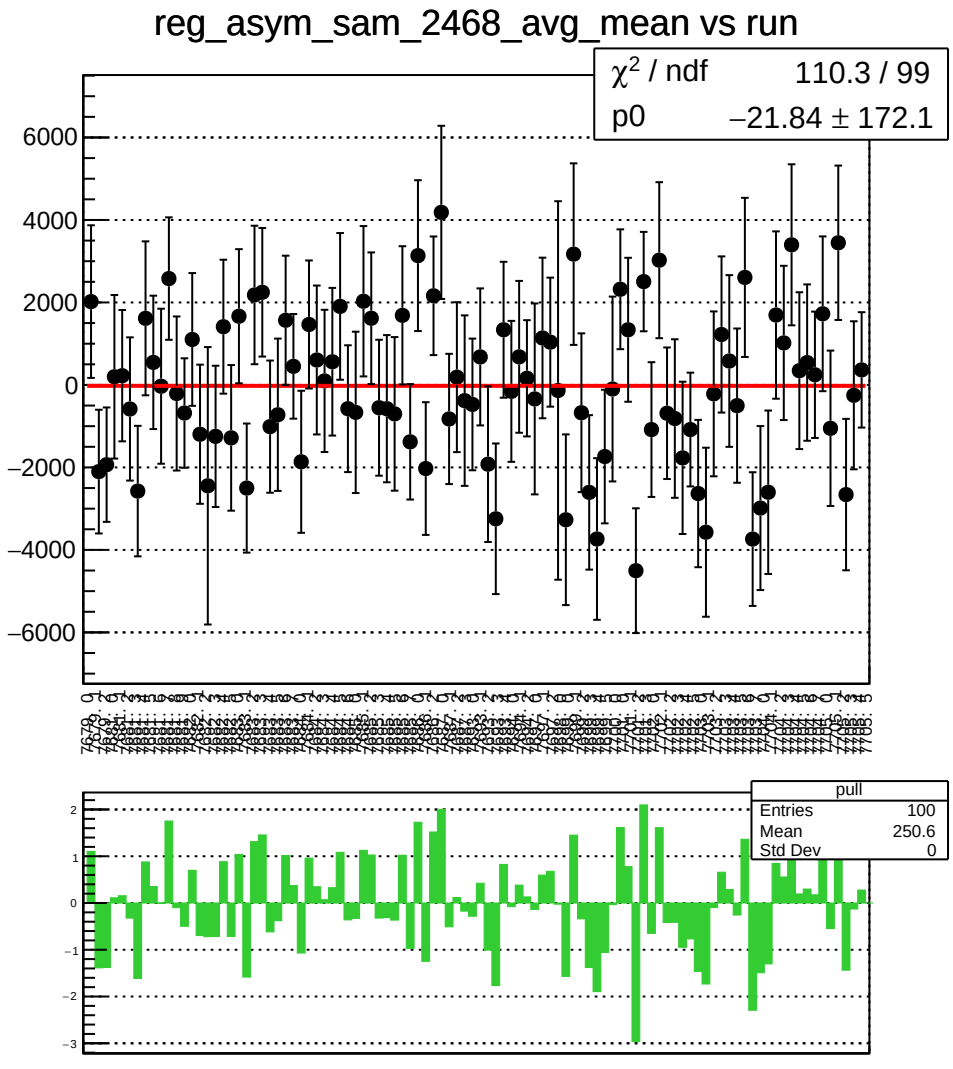

pull1D
Entries 100
Mean −0.0141
Std Dev 0.9096

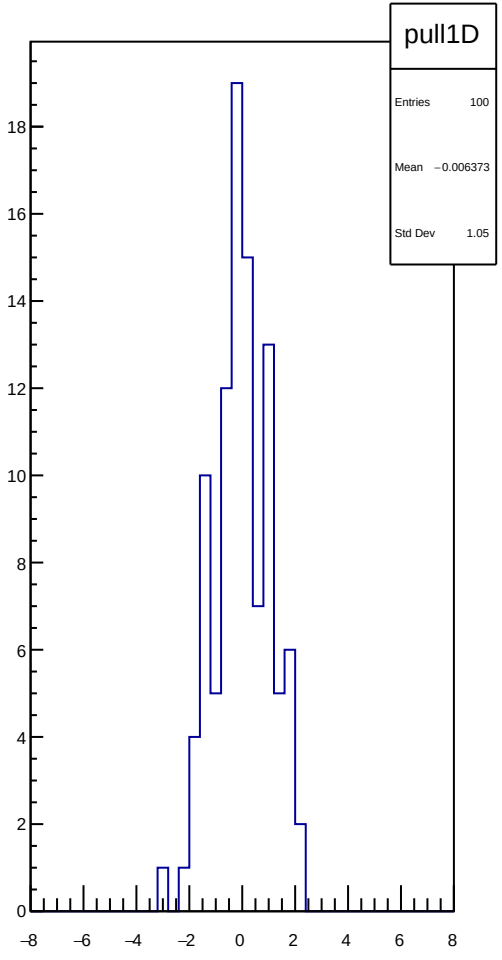

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.194e+05 / 99
p0 29.59 ± 0.02266
250
200
150
100
50

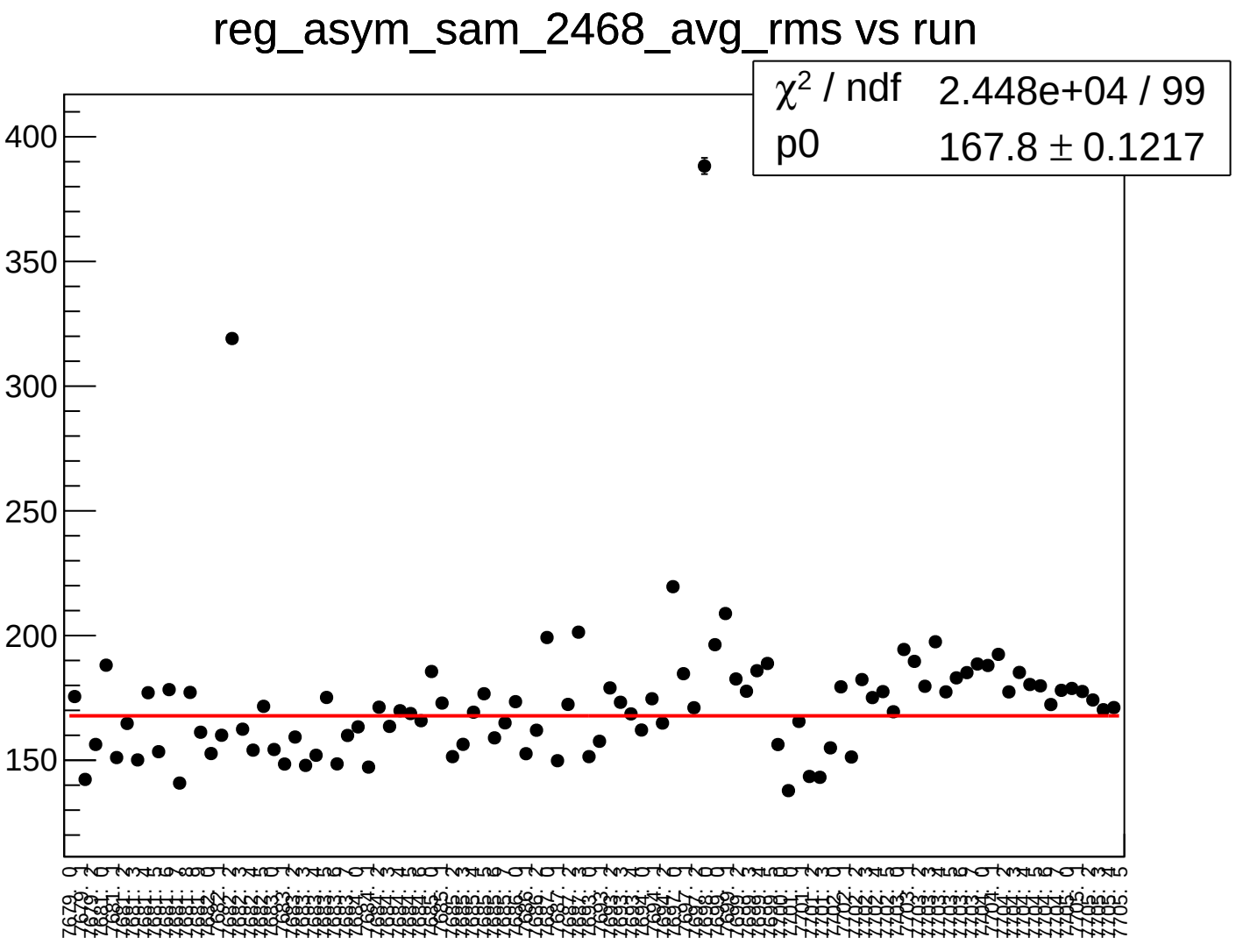

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 109.5 / 99
p0 6.376e−16 ± 3.564e−14
pull
Entries 100
Mean −145.9
Std Dev 0

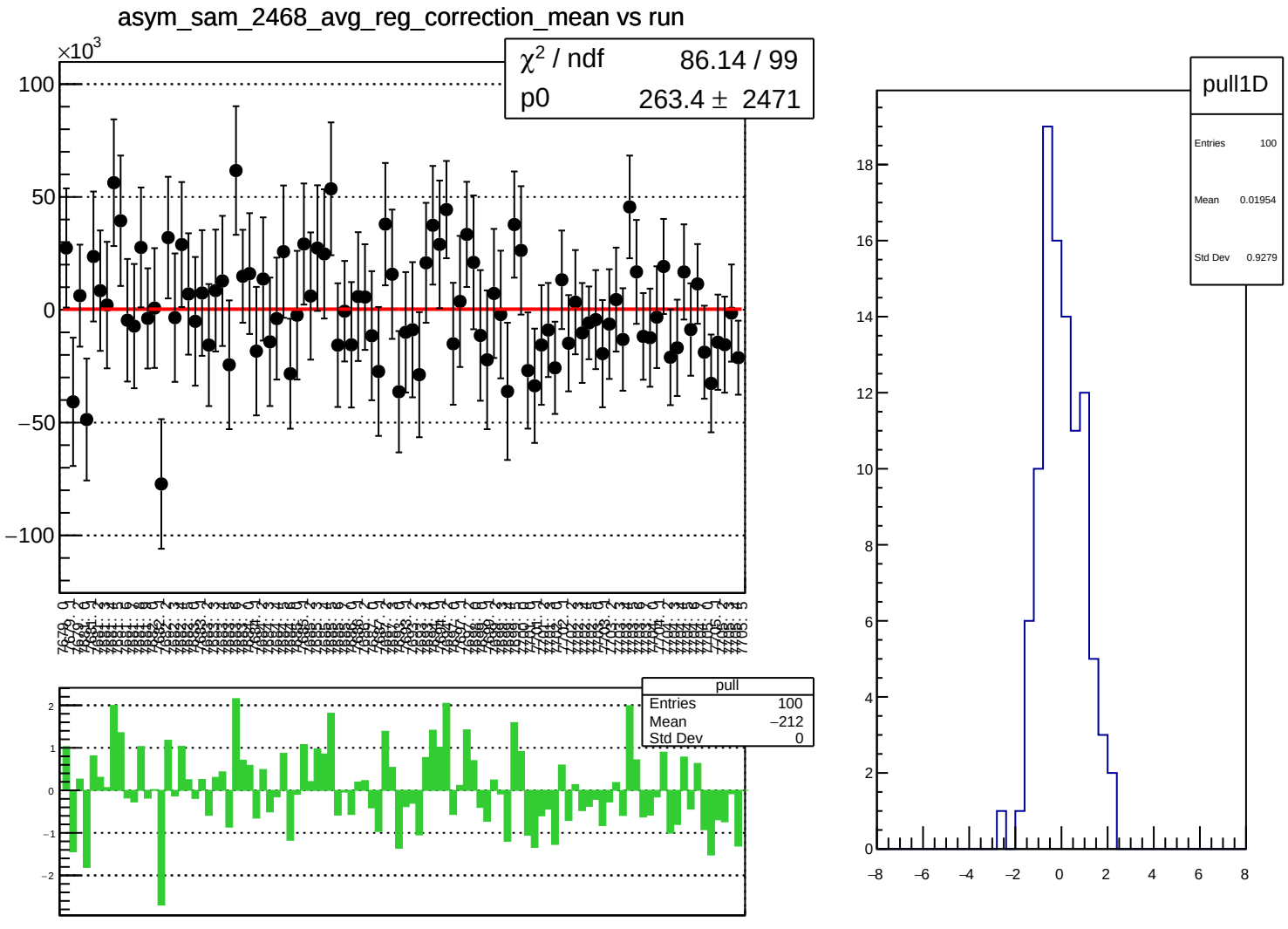

pull1D
Entries 100
Mean 0.01677
Std Dev 1.046

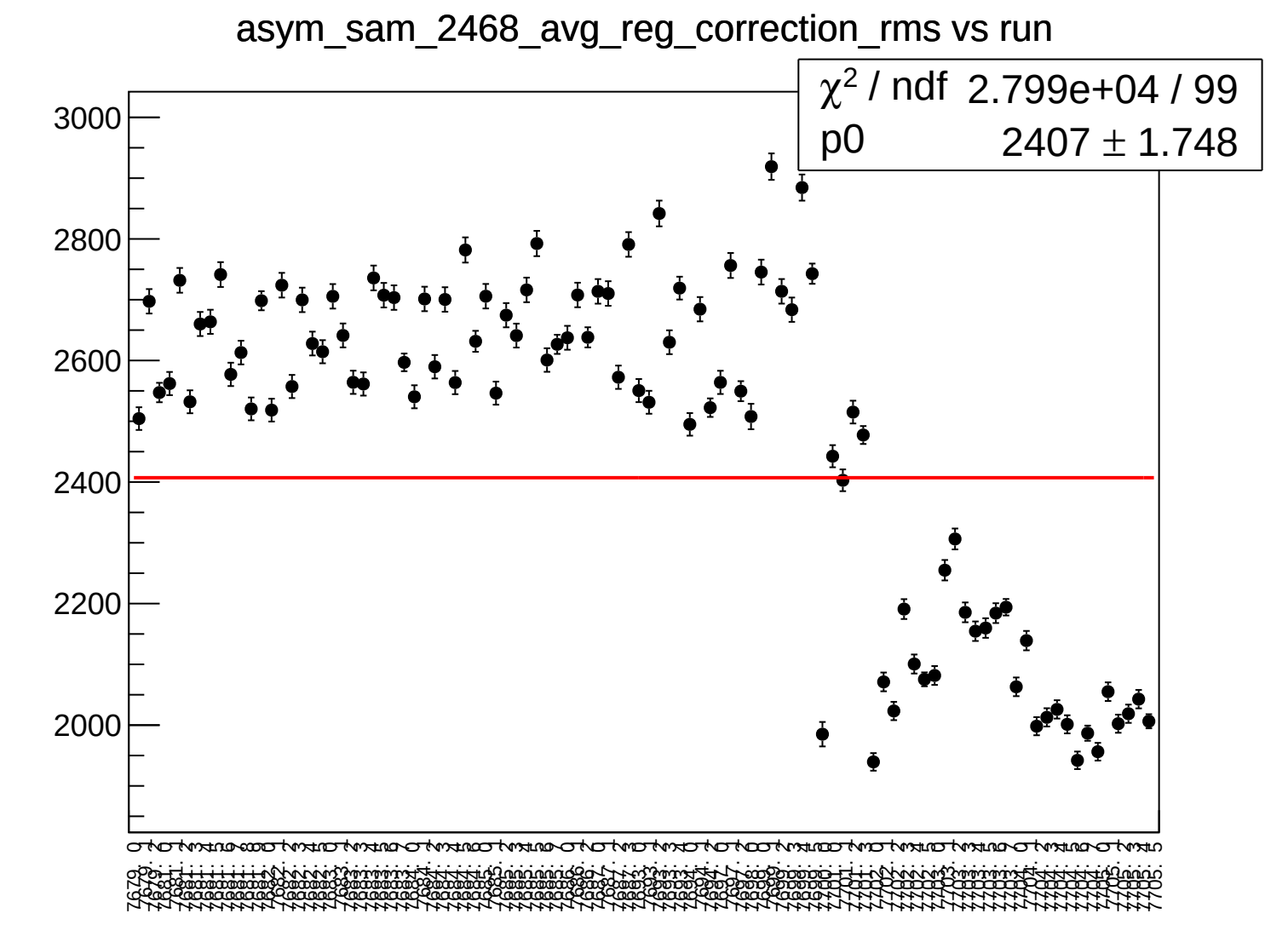

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.348e+05 / 99
p0 2.508e−11 ± 2.52e−14
0.6
0.5
0.4
0.3
0.2
0.1

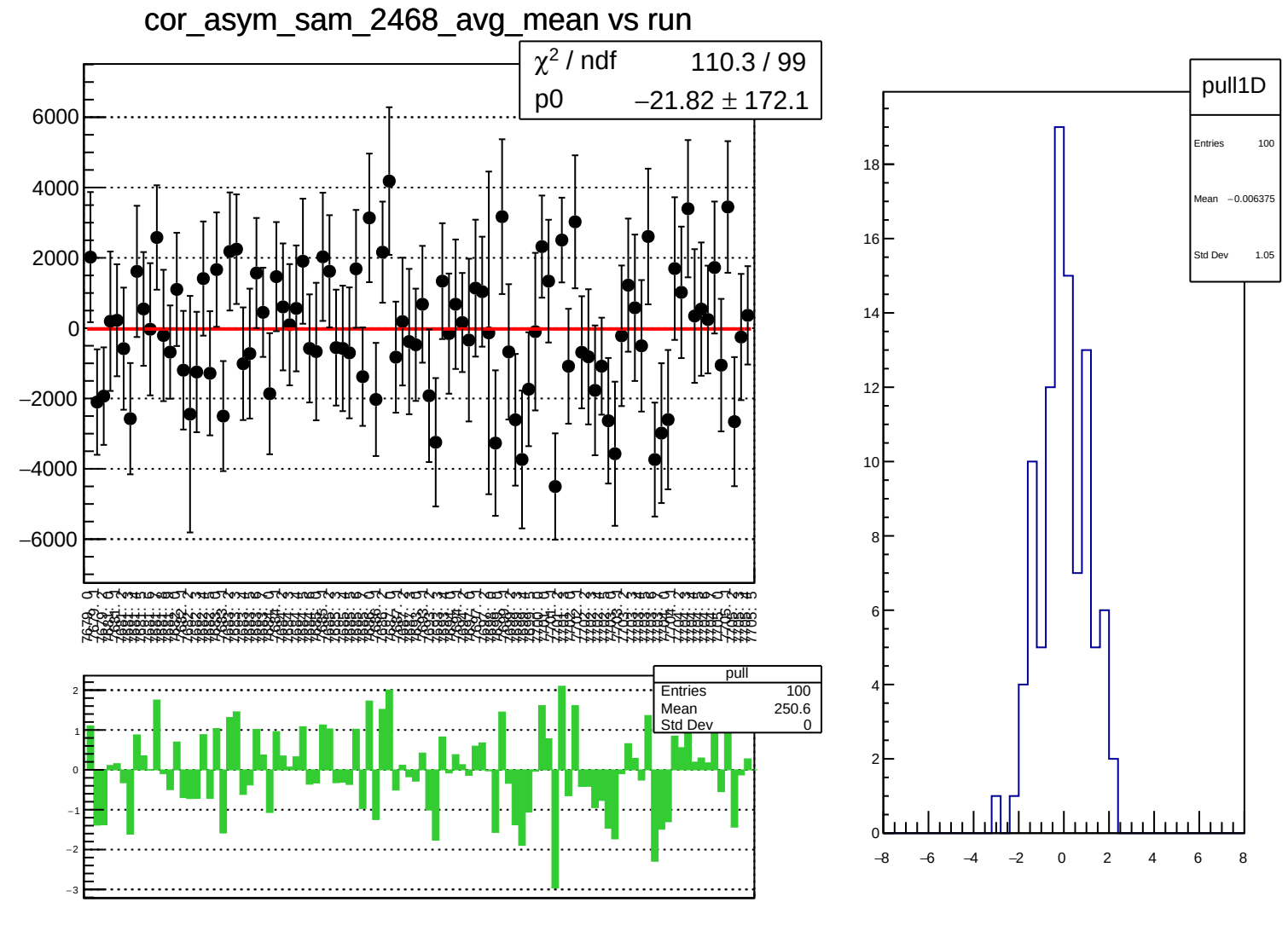

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 110.3 / 99
p0 −21.84 ± 172.1
pull
Entries 100
Mean 250.6
Std Dev 0

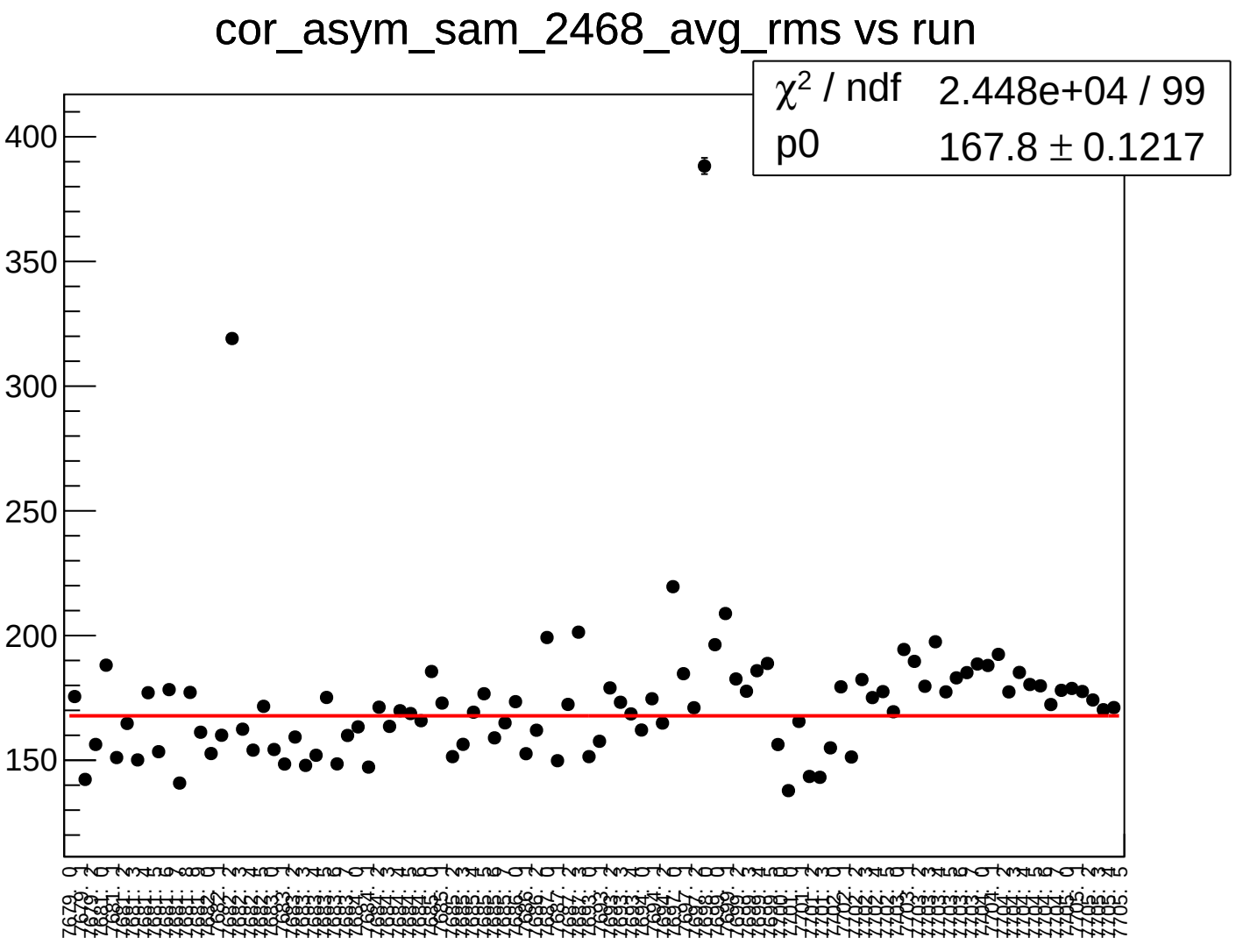

pull1D
Entries 100
Mean −0.006373
Std Dev 1.05

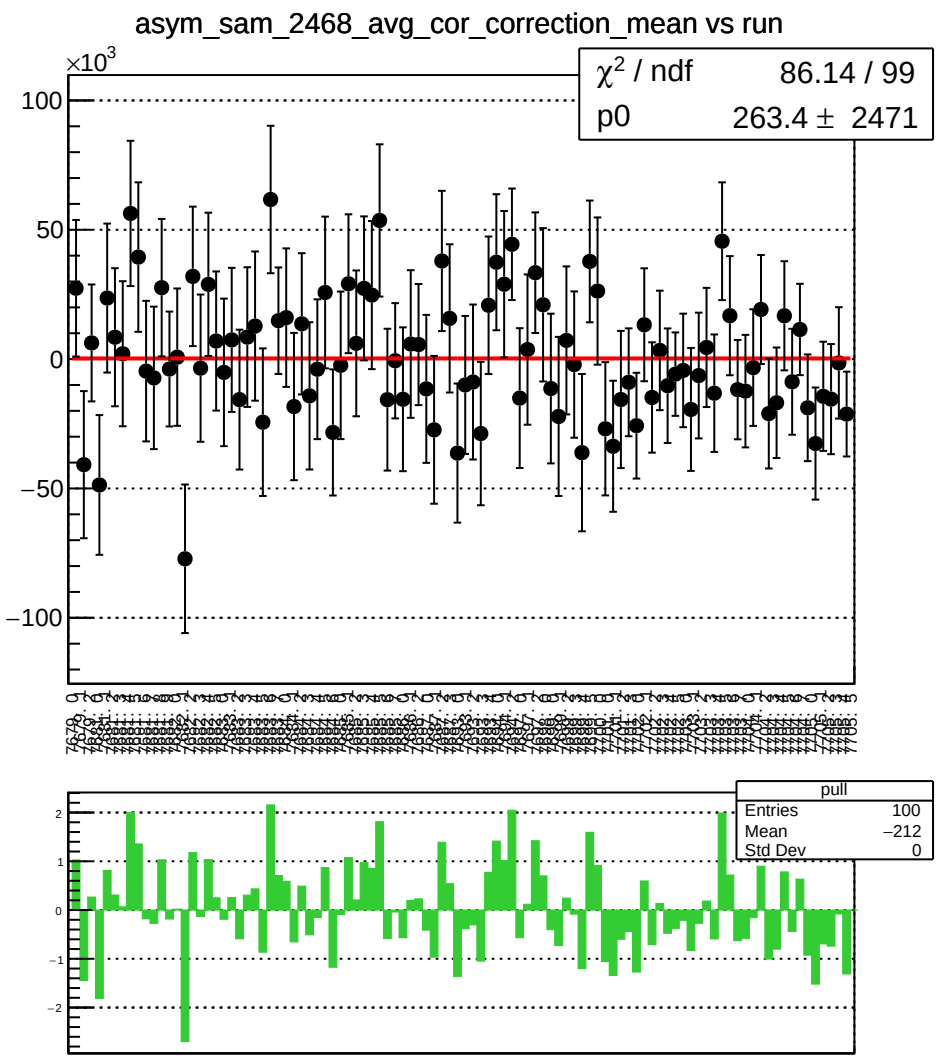

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 2.448e+04 / 99
p0 167.8 ± 0.1217
400
350
300
250
200
150

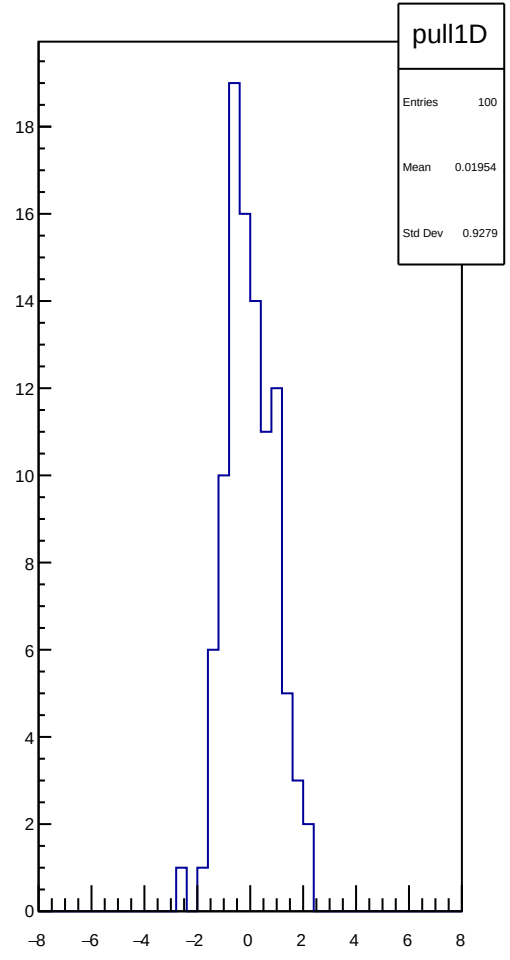

asym_sam_2468_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 86.14 / 99
p0 263.4 ± 2471
100
50
0
−50
−100
pull
Entries 100
Mean −212
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.01954
Std Dev 0.9279
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 2.799e+04 / 99
p0 2407 ± 1.748
3000
2800
2600
2400
2200
2000


cor_asym_sam_2468_avg_mean vs run
χ² / ndf 110.3 / 99
p0 −21.82 ± 172.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 250.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean −0.006375
Std Dev 1.05
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_2468_avg_rms vs run
χ² / ndf 2.448e+04 / 99
p0 167.8 ± 0.1217
400
350
300
250
200
150


asym_sam_2468_avg_cor_correction_mean vs run
×10^3
χ² / ndf 86.14 / 99
p0 263.4 ± 2471
100
50
0
−50
−100
pull
Entries 100
Mean −212
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 100
Mean 0.01954
Std Dev 0.9279
18
16
14
12
10
8
6
4
2
0
−8
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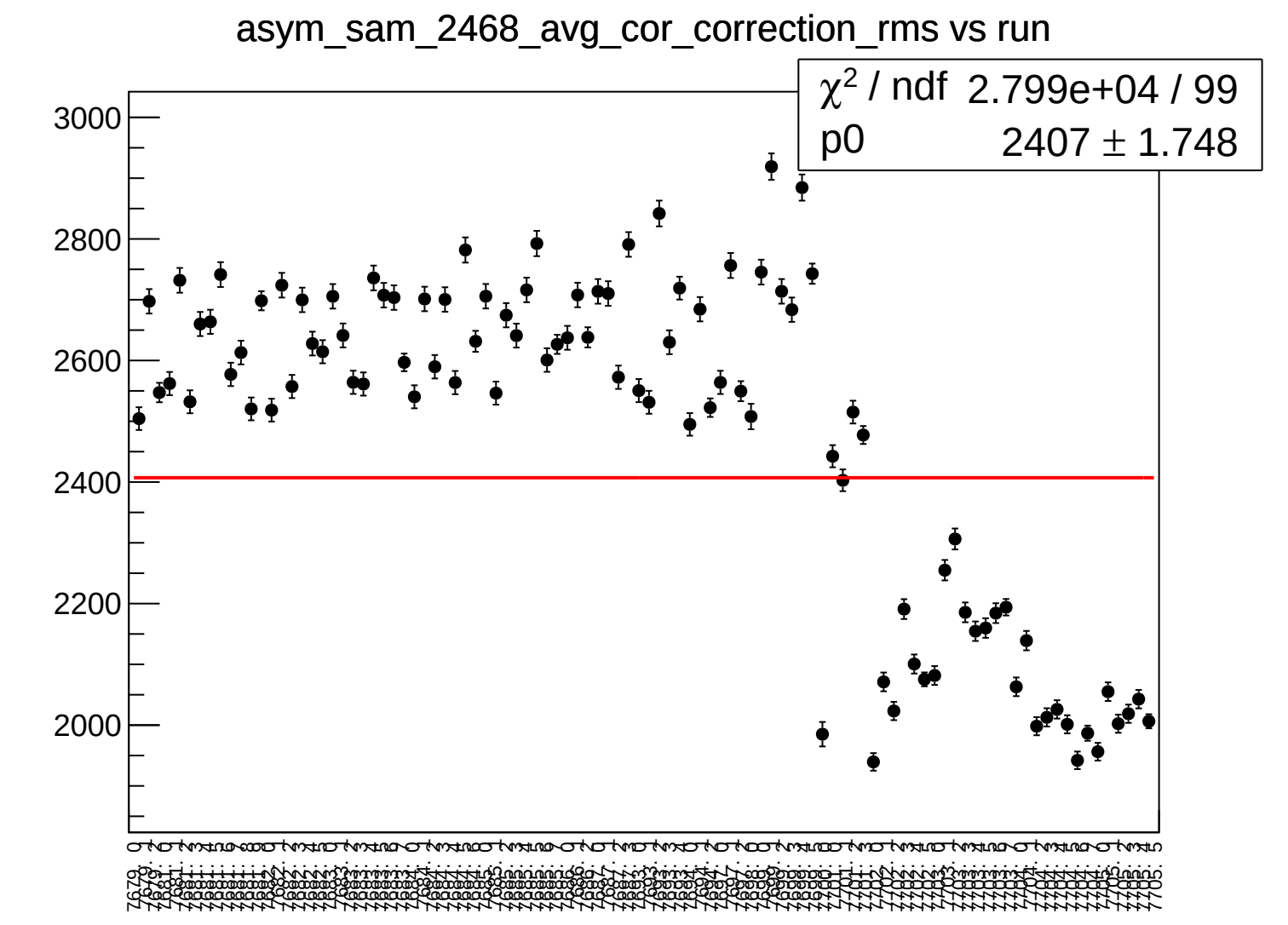
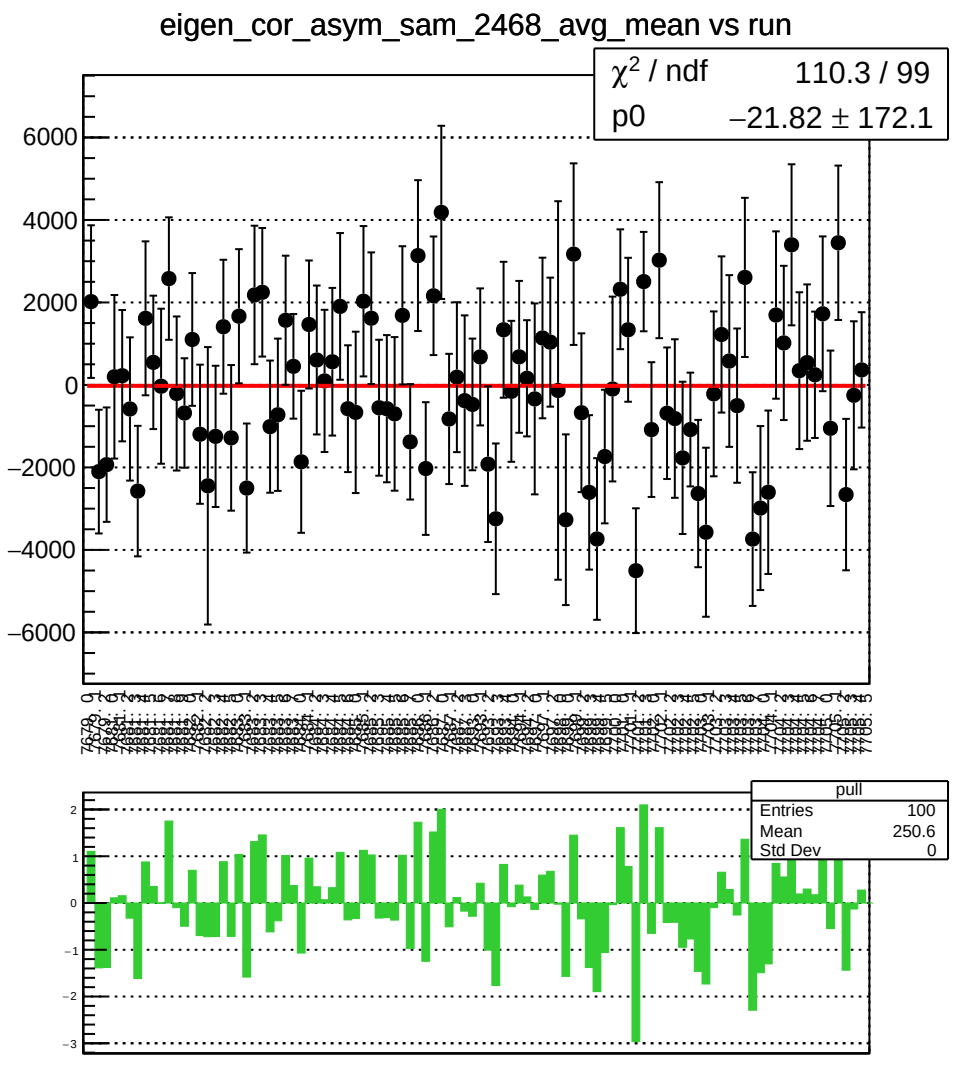
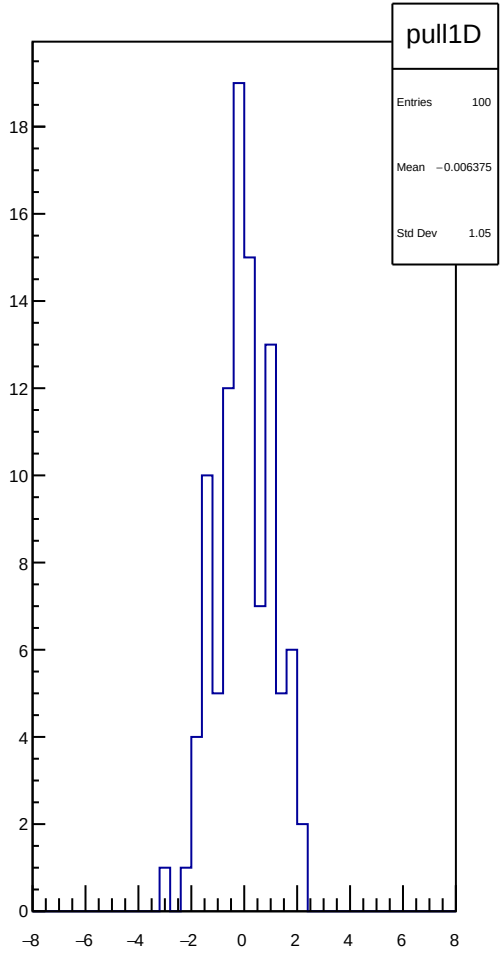
2
4
6
8


asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 2.799e+04 / 99
p0 2407 ± 1.748
3000
2800
2600
2400
2200
2000


eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 110.3 / 99
p0 −21.82 ± 172.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 250.6
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 100
Mean −0.006375
Std Dev 1.05
18
16
14
12
10
8
6
4
2
0
−8
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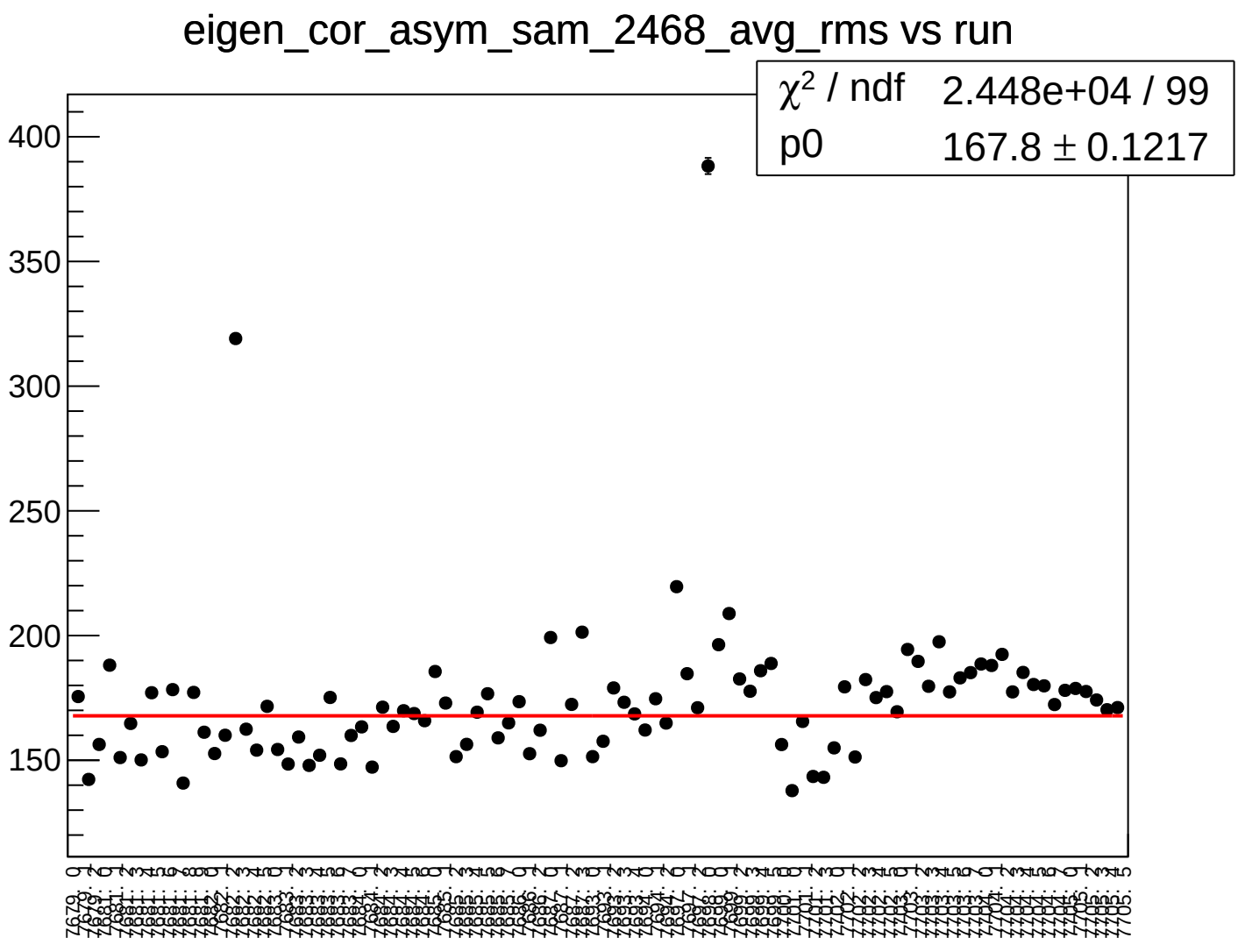
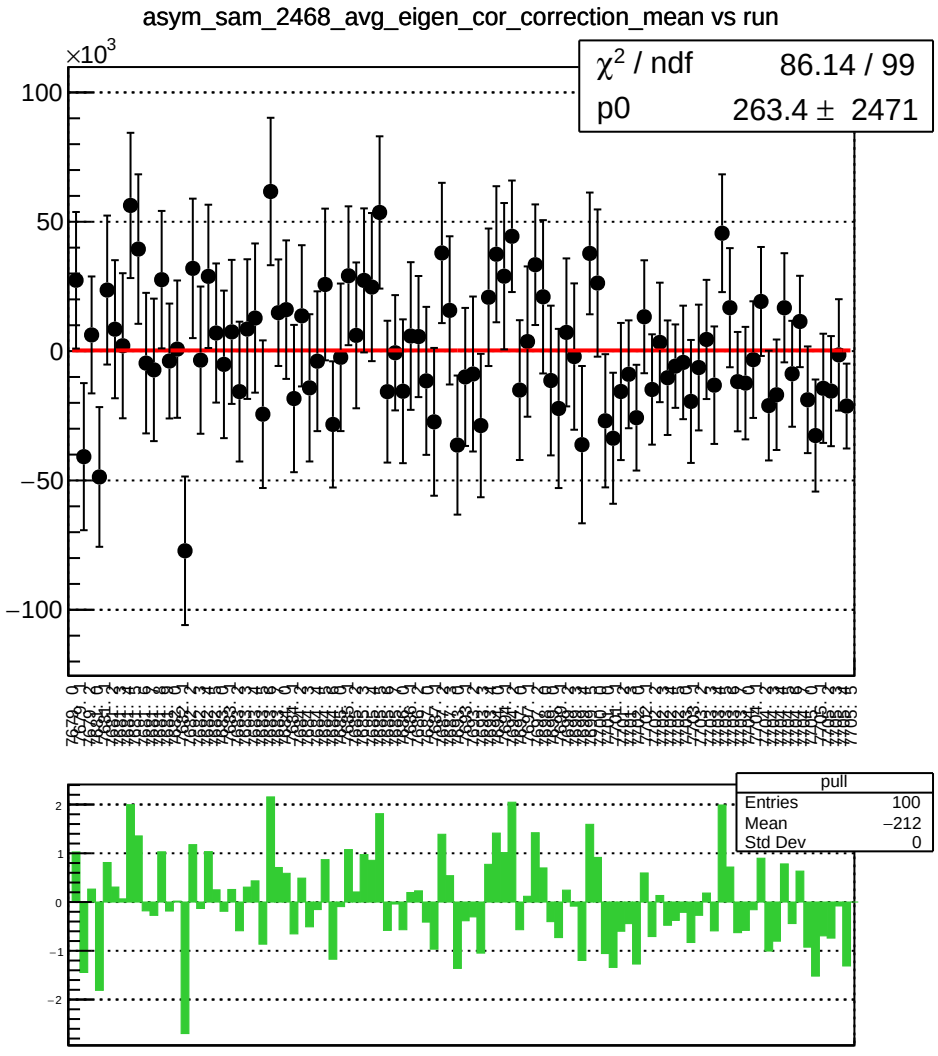
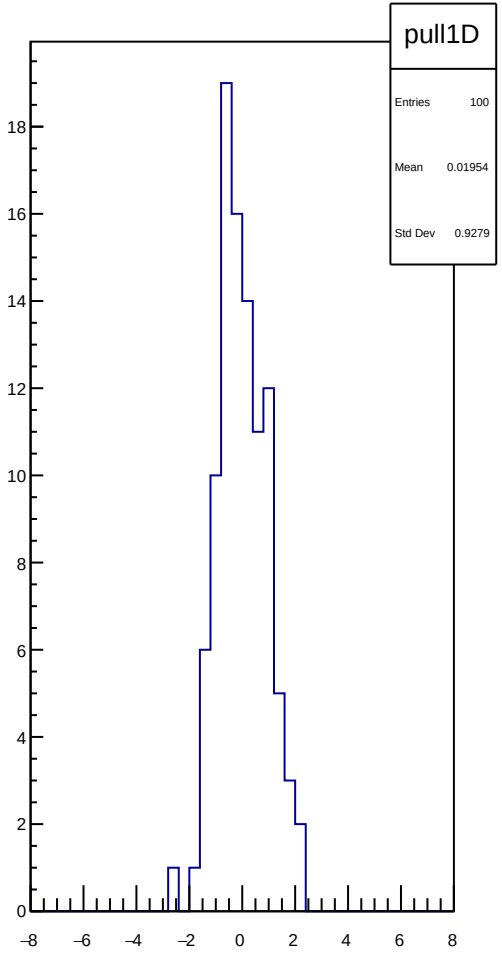
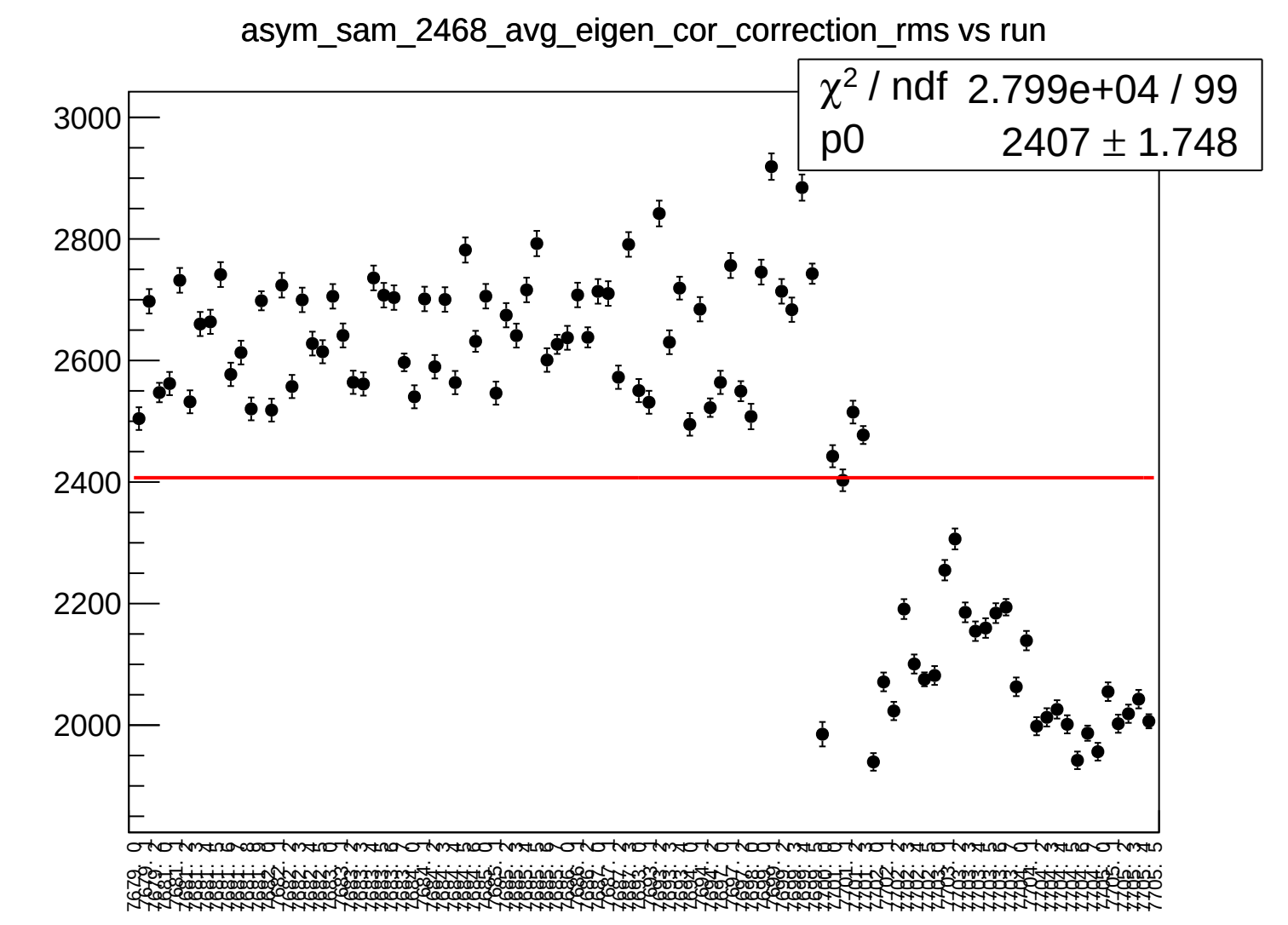
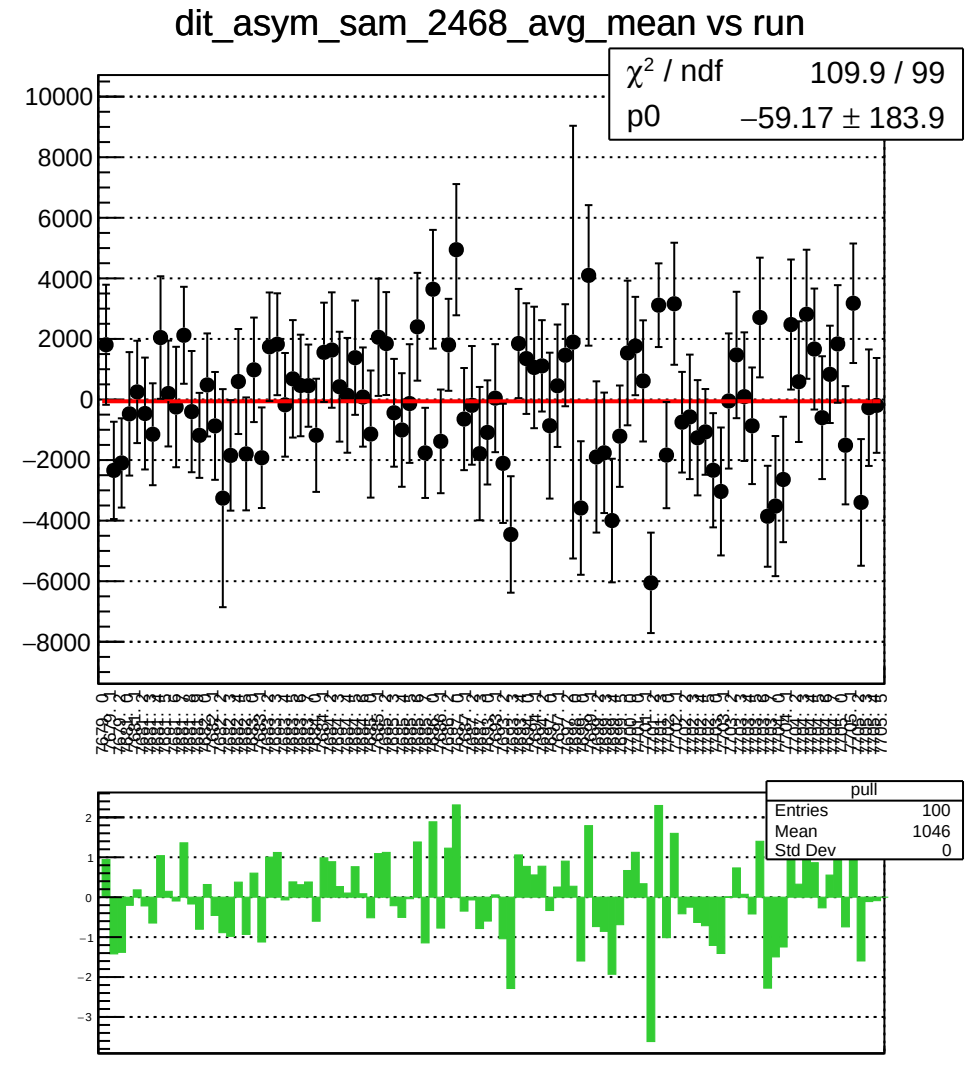
0
2
4
6
8

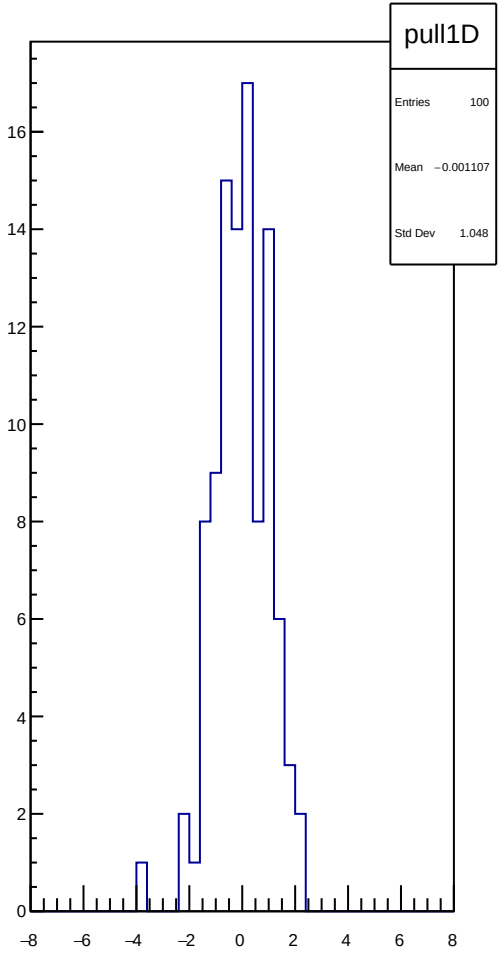

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 2.448e+04 / 99
p0 167.8 ± 0.1217
400
350
300
250
200
150

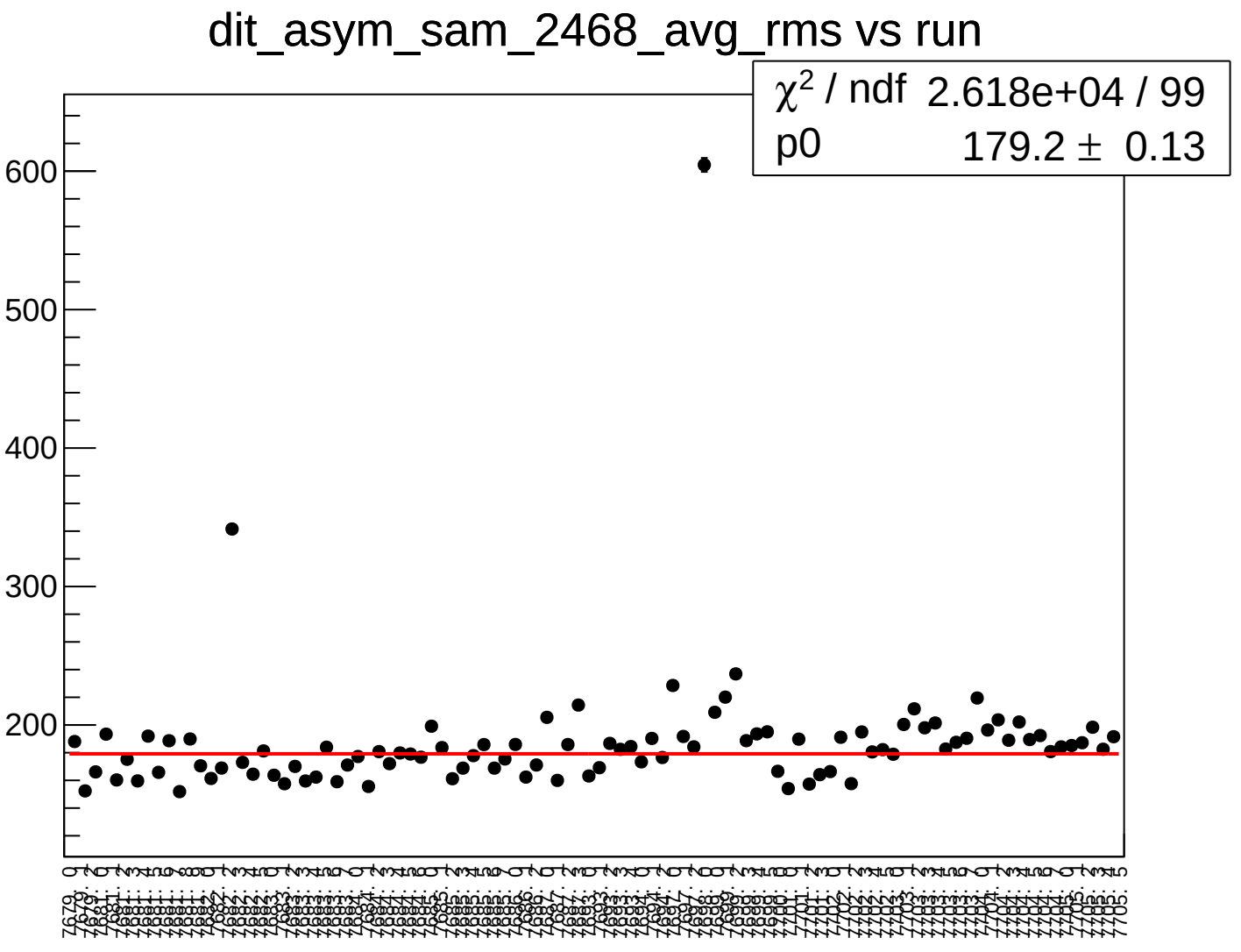

asym_sam_2468_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 86.14 / 99
p0 263.4 ± 2471
pull
Entries 100
Mean −212
Std Dev 0

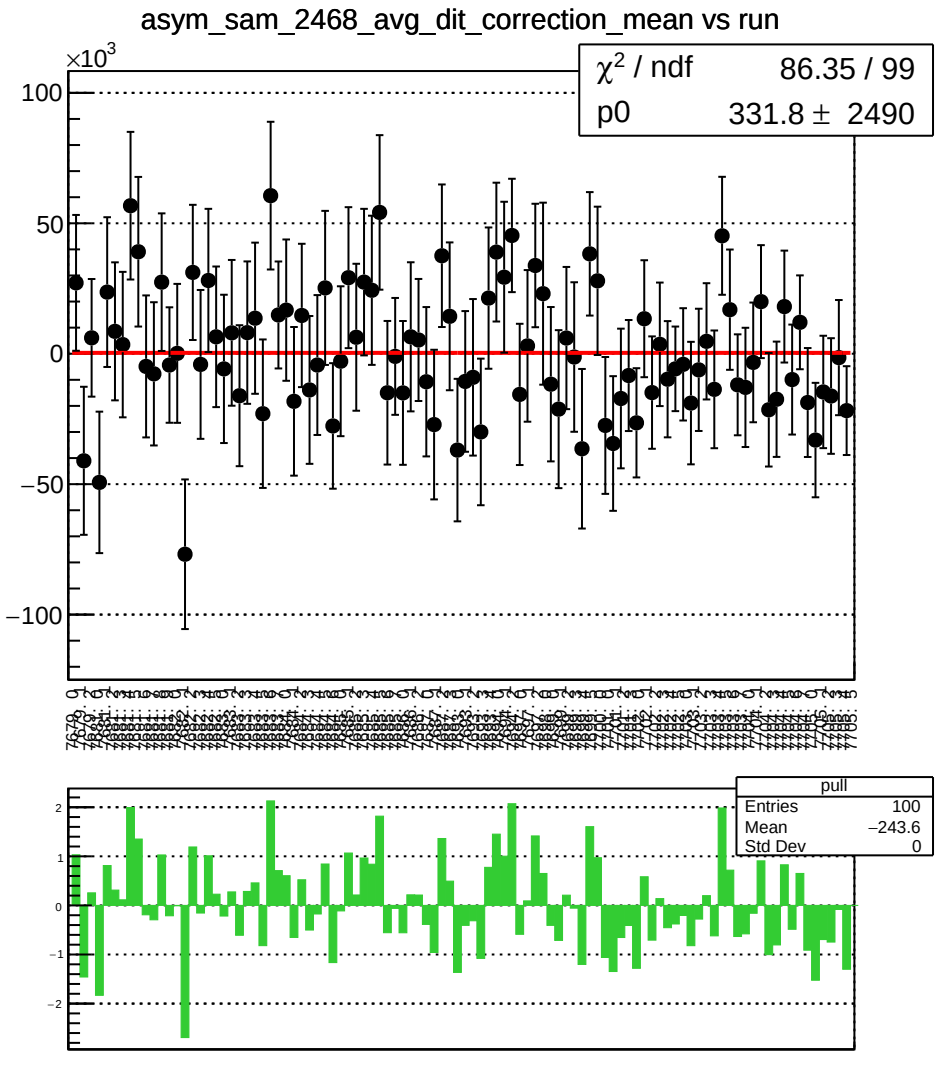

pull1D
Entries 100
Mean 0.01954
Std Dev 0.9279

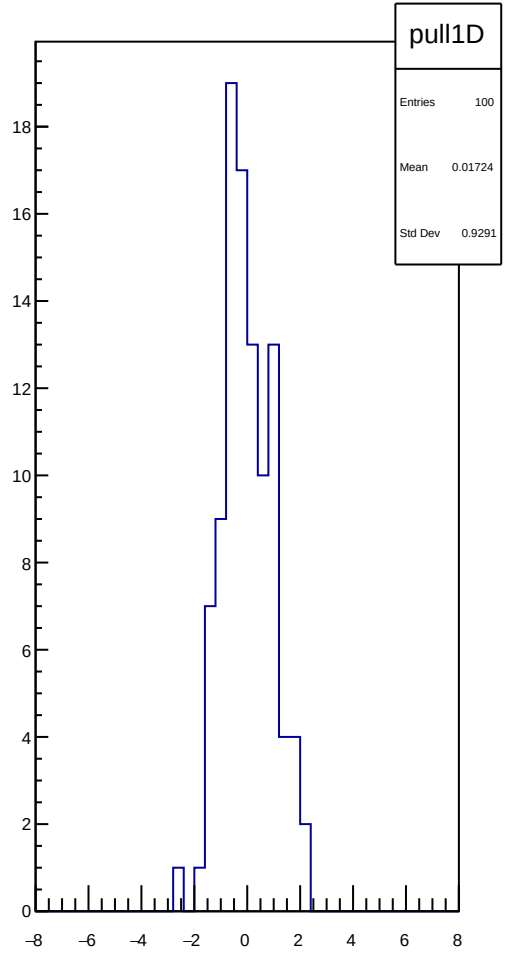

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.799e+04 / 99
p0 2407 ± 1.748
3000
2800
2600
2400
2200
2000

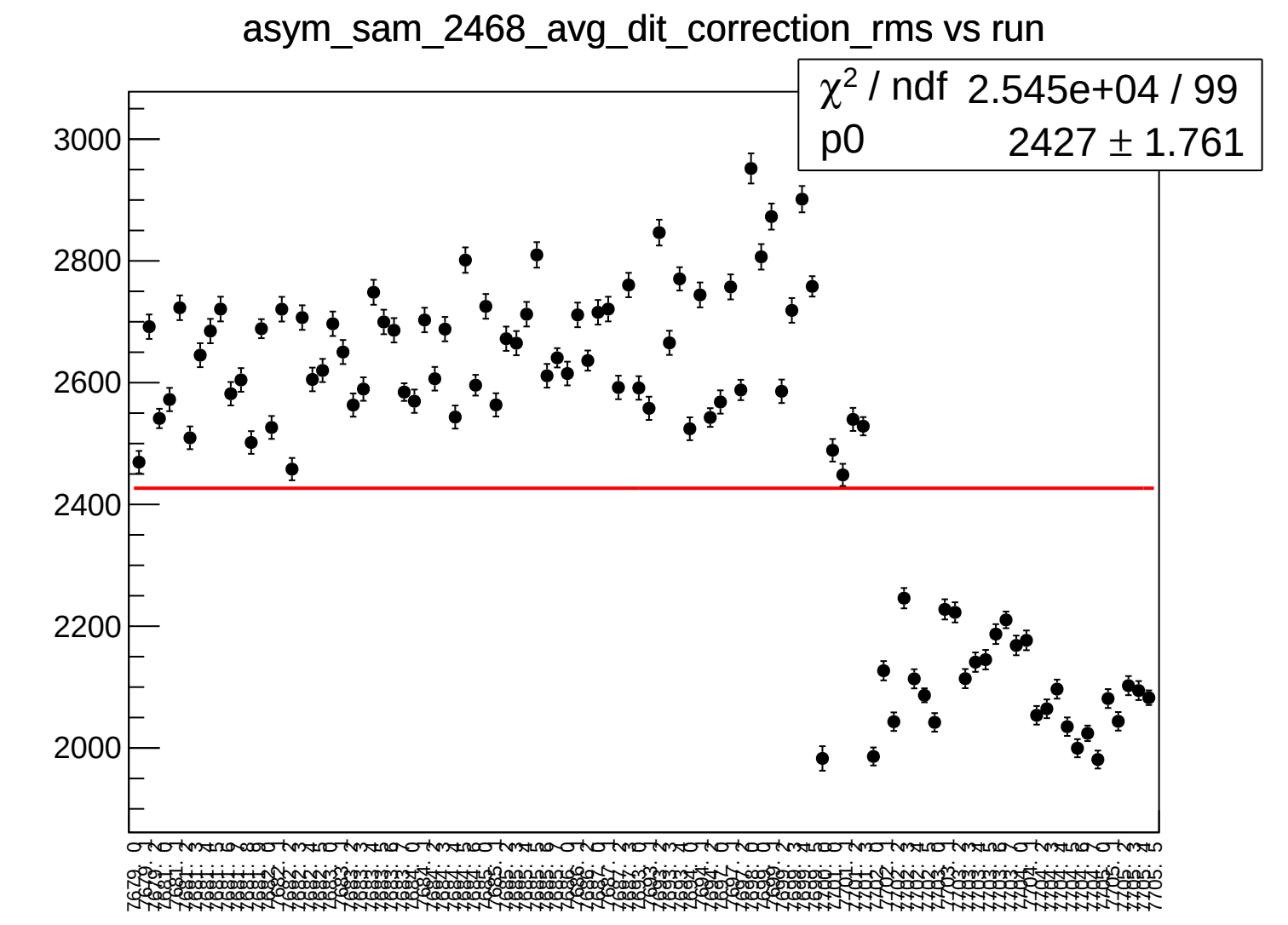

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 109.9 / 99
p0 −59.17 ± 183.9
pull
Entries 100
Mean 1046
Std Dev 0

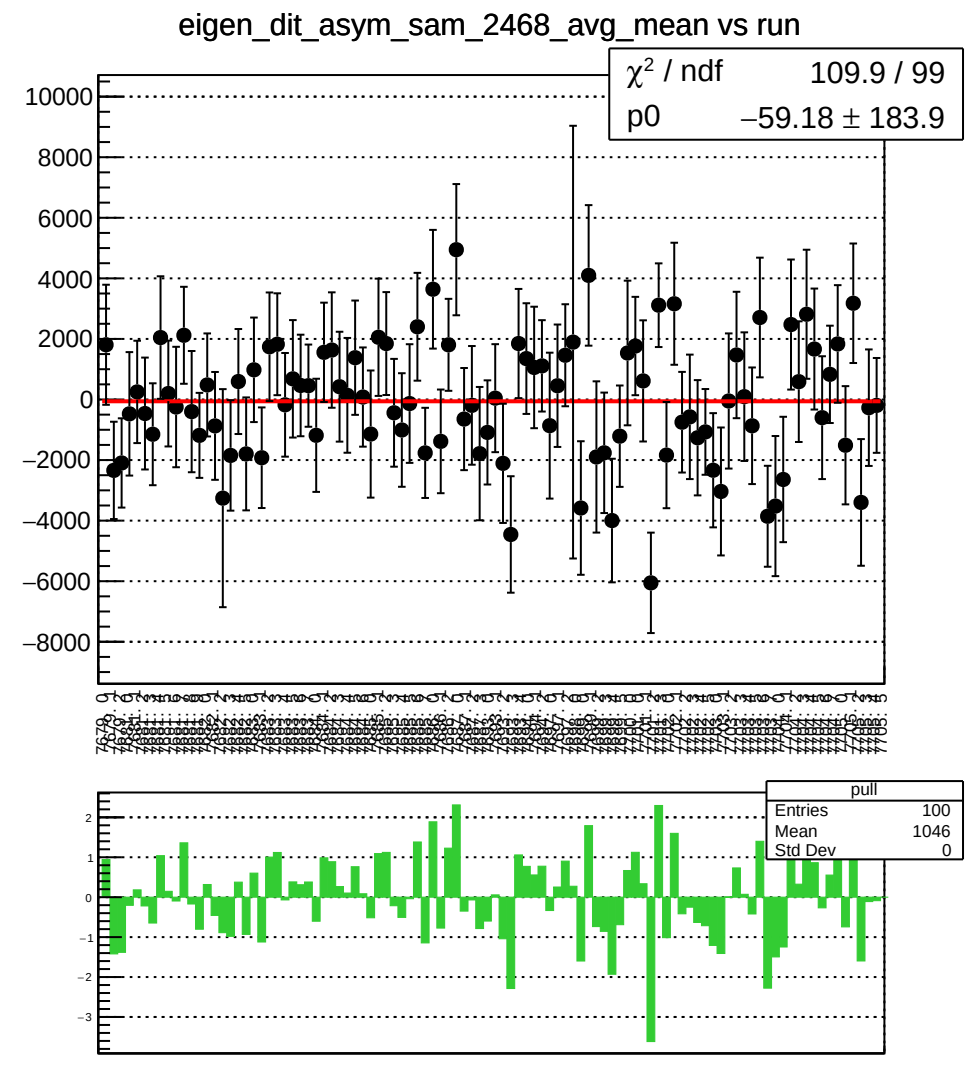

pull1D
Entries 100
Mean −0.001107
Std Dev 1.048

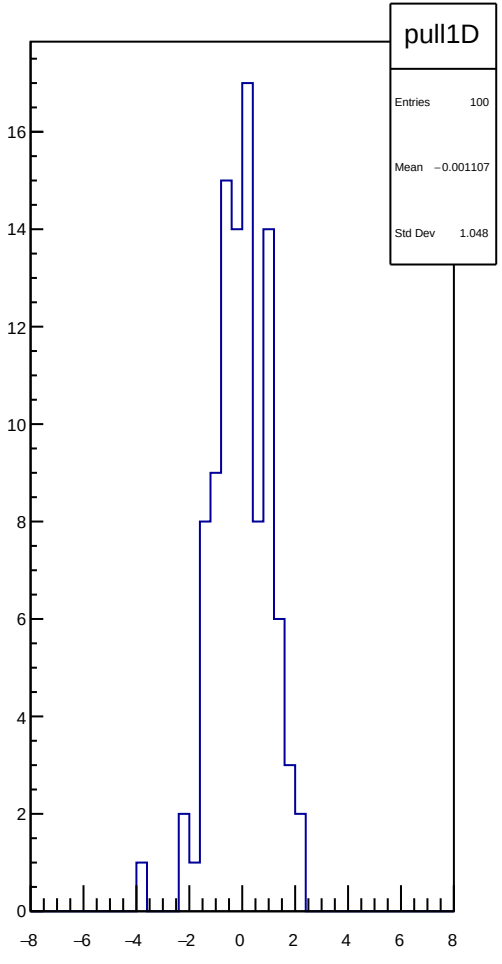

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 2.618e+04 / 99
p0 179.2 ± 0.13
600
500
400
300
200

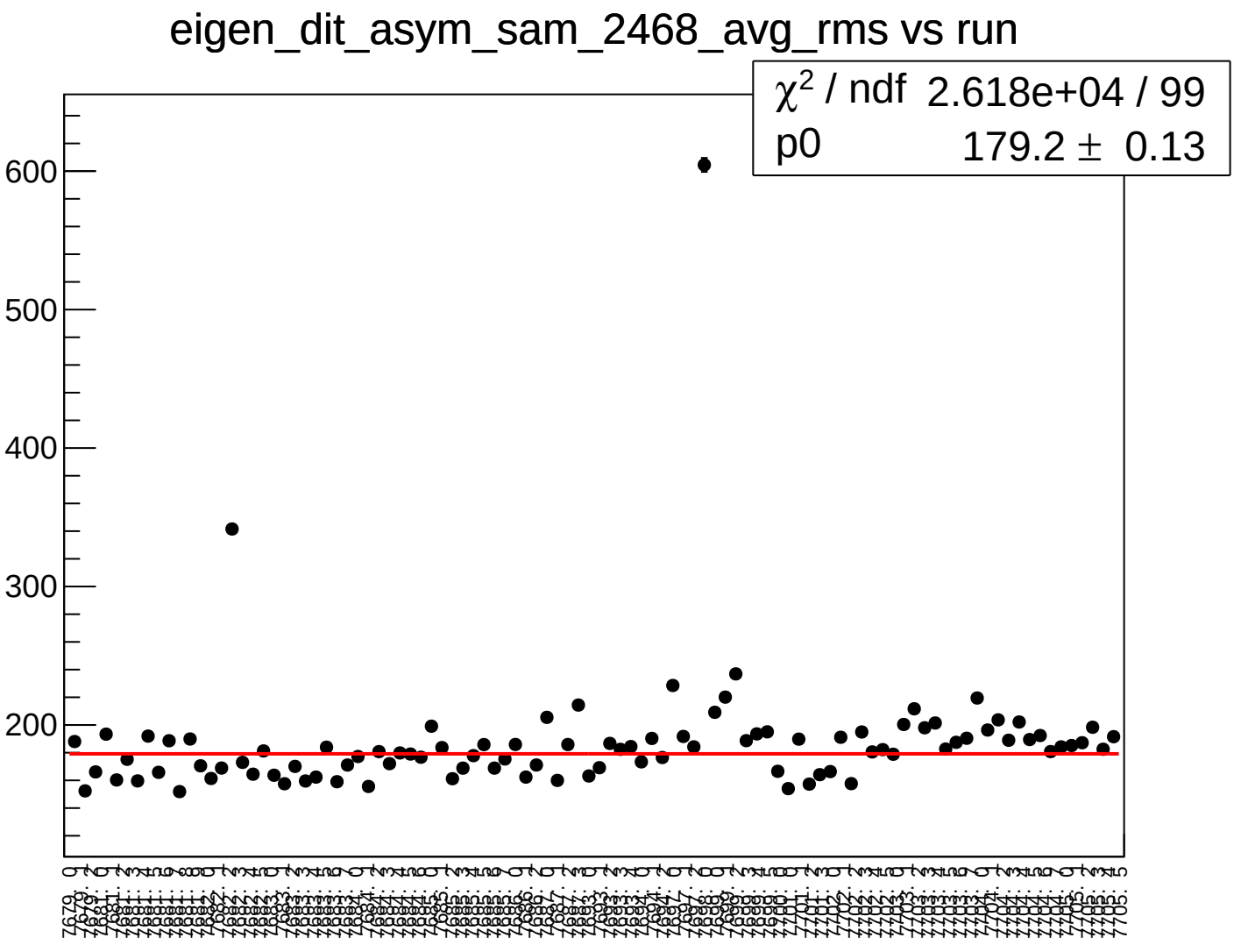

asym_sam_2468_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 86.35 / 99
p0 331.8 ± 2490
100
50
0
−50
−100
pull
Entries 100
Mean −243.6
Std Dev 0
2
1
0
−1
−2

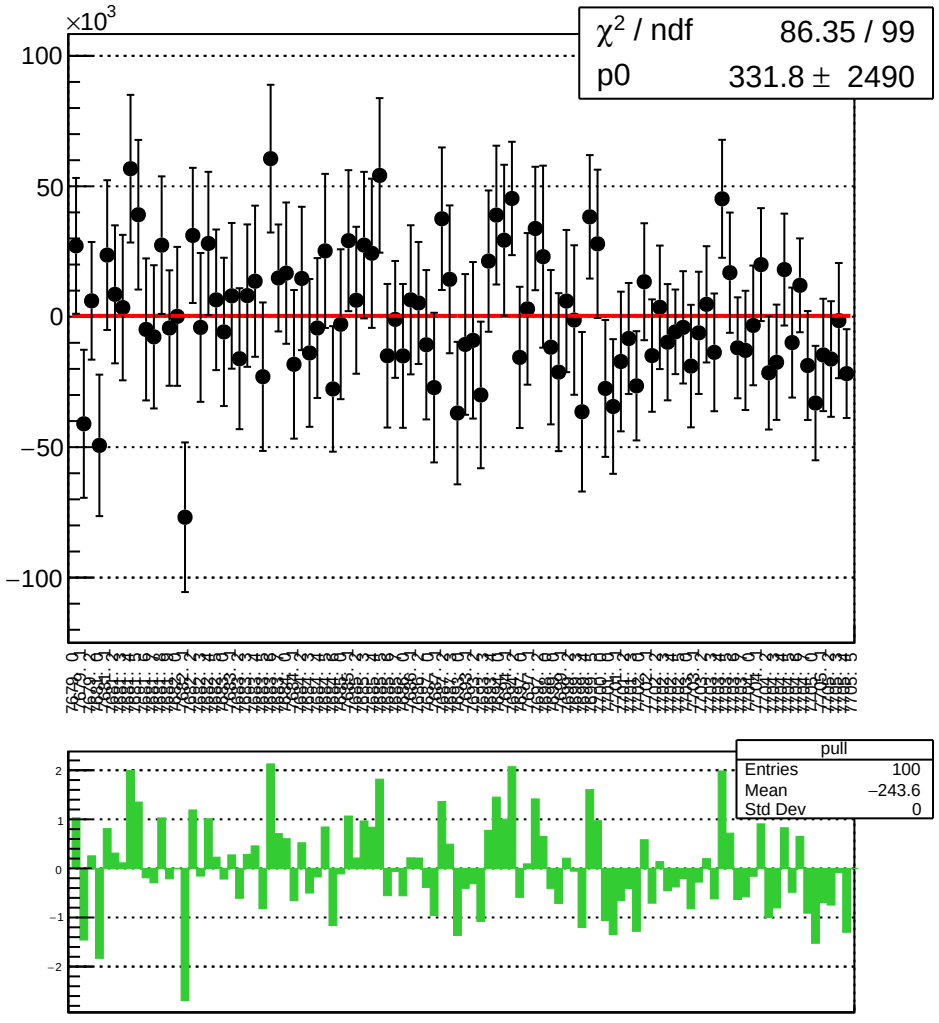

pull1D
Entries 100
Mean 0.01724
Std Dev 0.9291
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

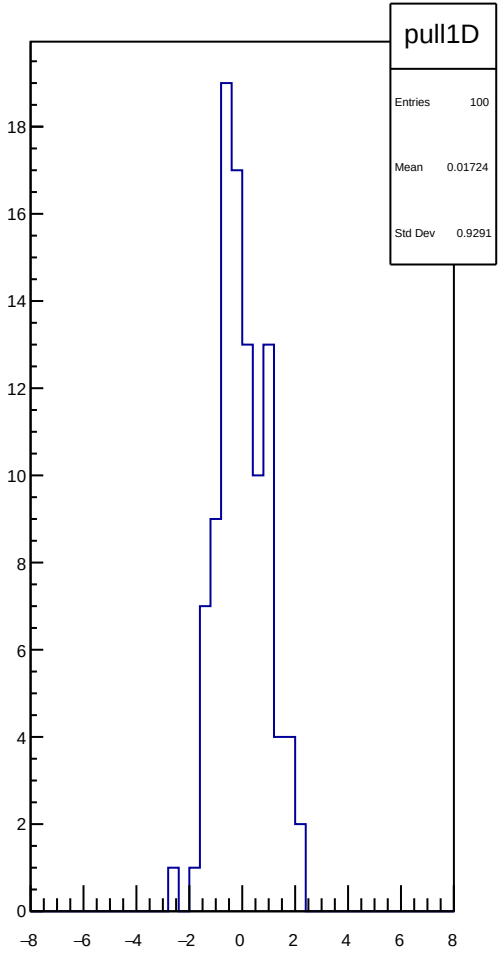

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 2.545e+04 / 99
p0 2427 ± 1.761
3000
2800
2600
2400
2200
2000

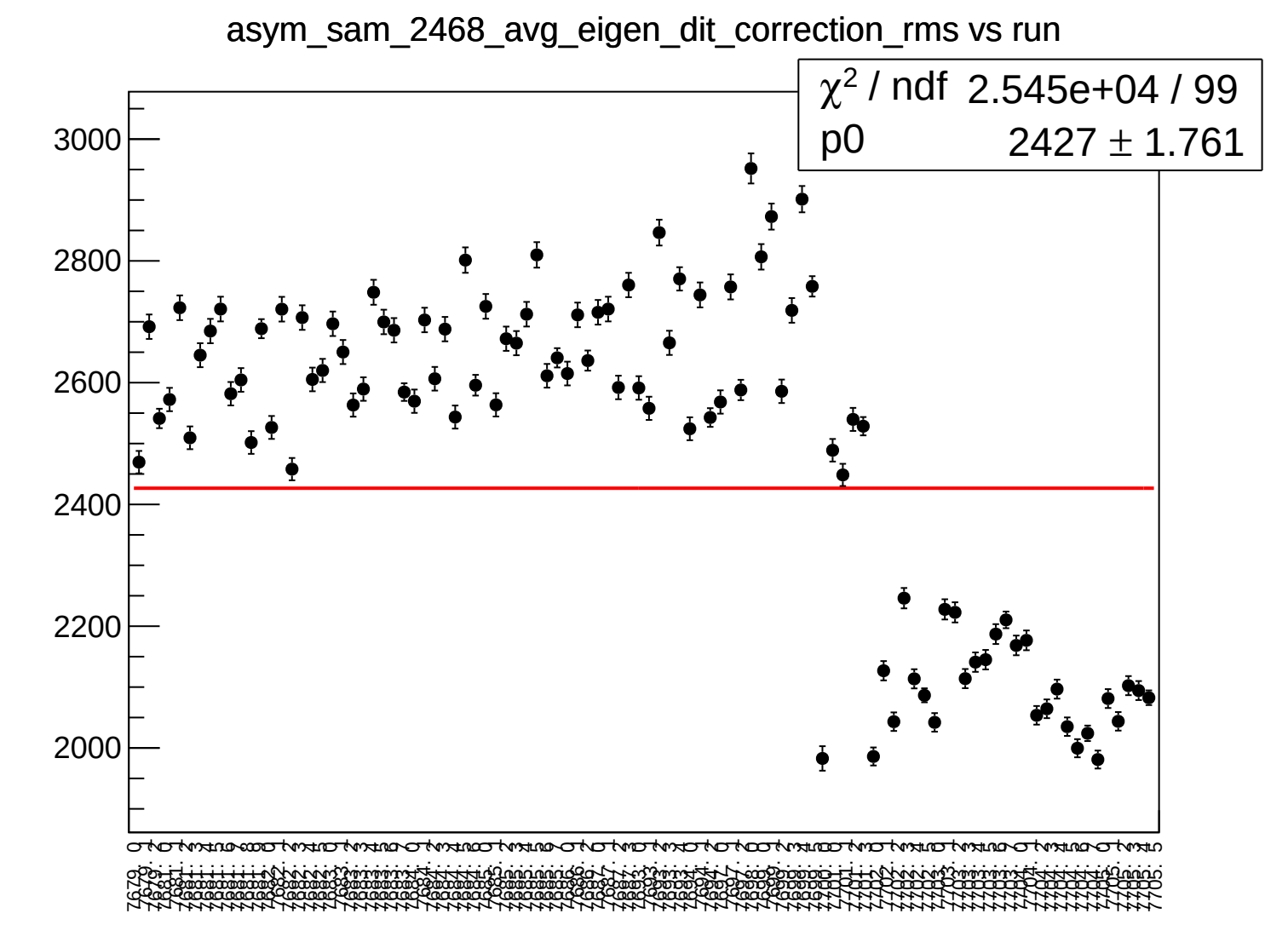

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 109.9 / 99
p0 −59.18 ± 183.9
pull
Entries 100
Mean 1046
Std Dev 0

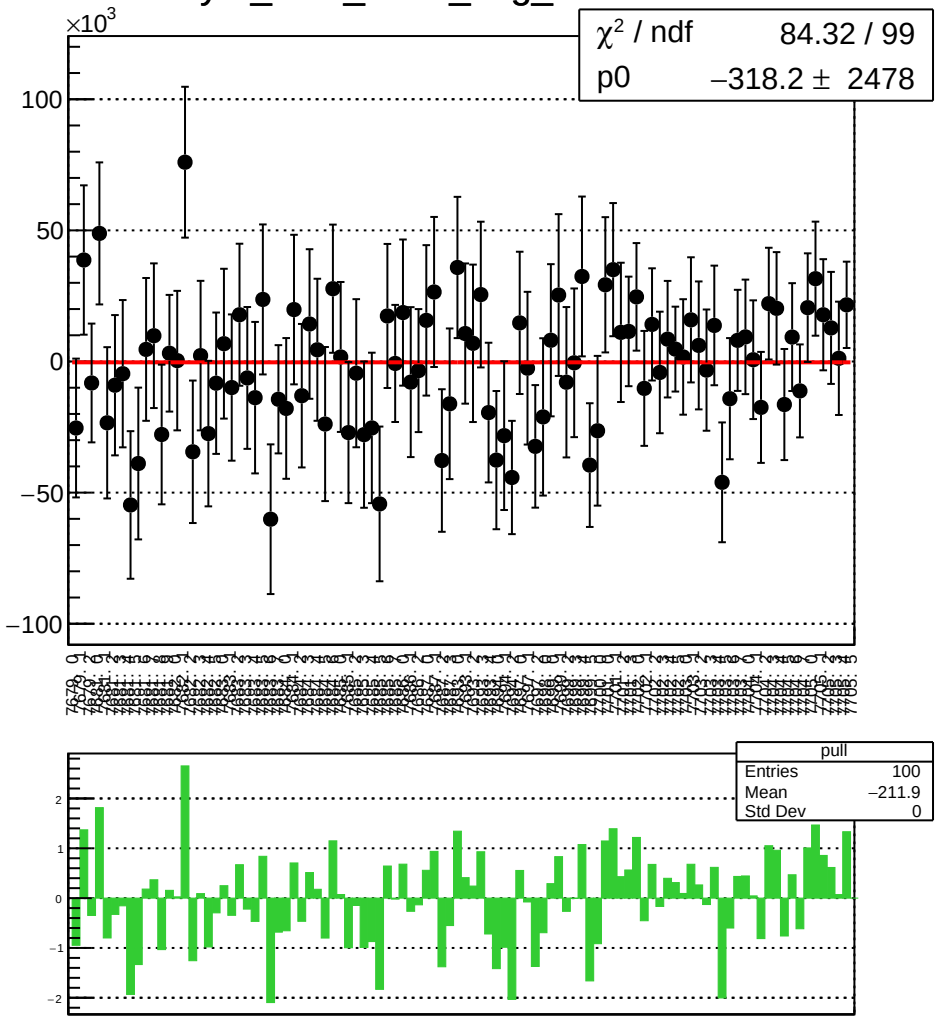

pull1D
Entries 100
Mean −0.001107
Std Dev 1.048

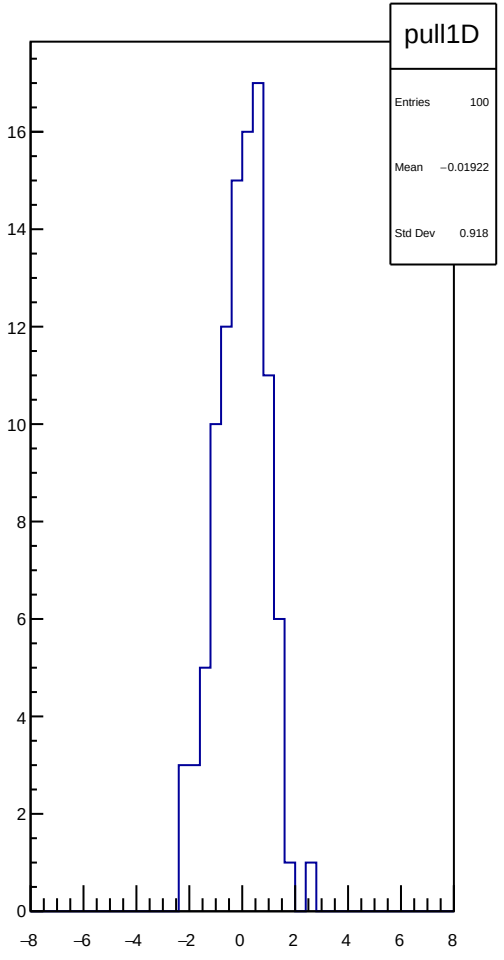

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 2.618e+04 / 99
p0 179.2 ± 0.13
600
500
400
300
200

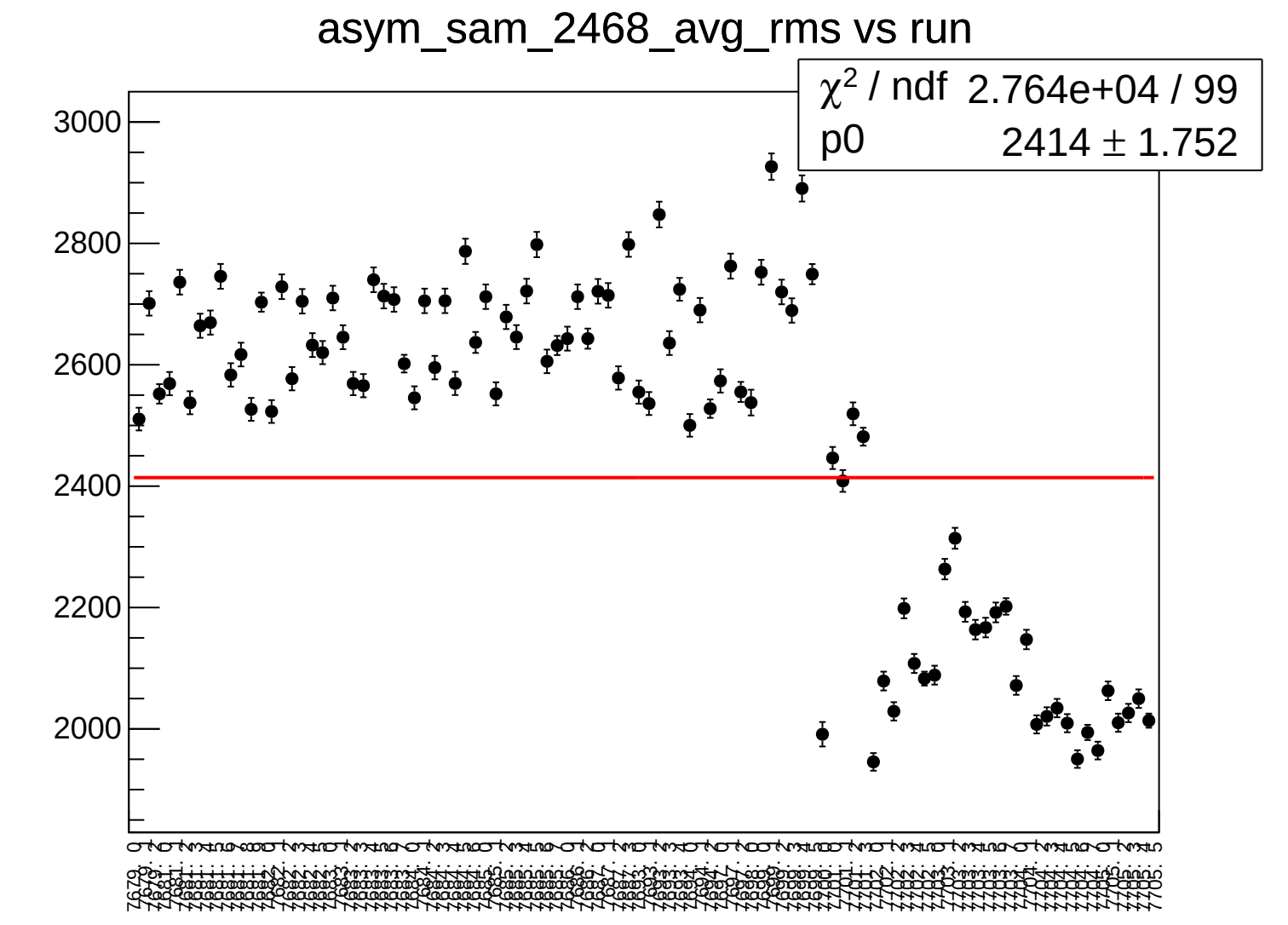

asym_sam_2468_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 86.35 / 99
p0 331.8 ± 2490
100
50
0
−50
−100
pull
Entries 100
Mean −243.6
Std Dev 0
2
1
0
−1
−2

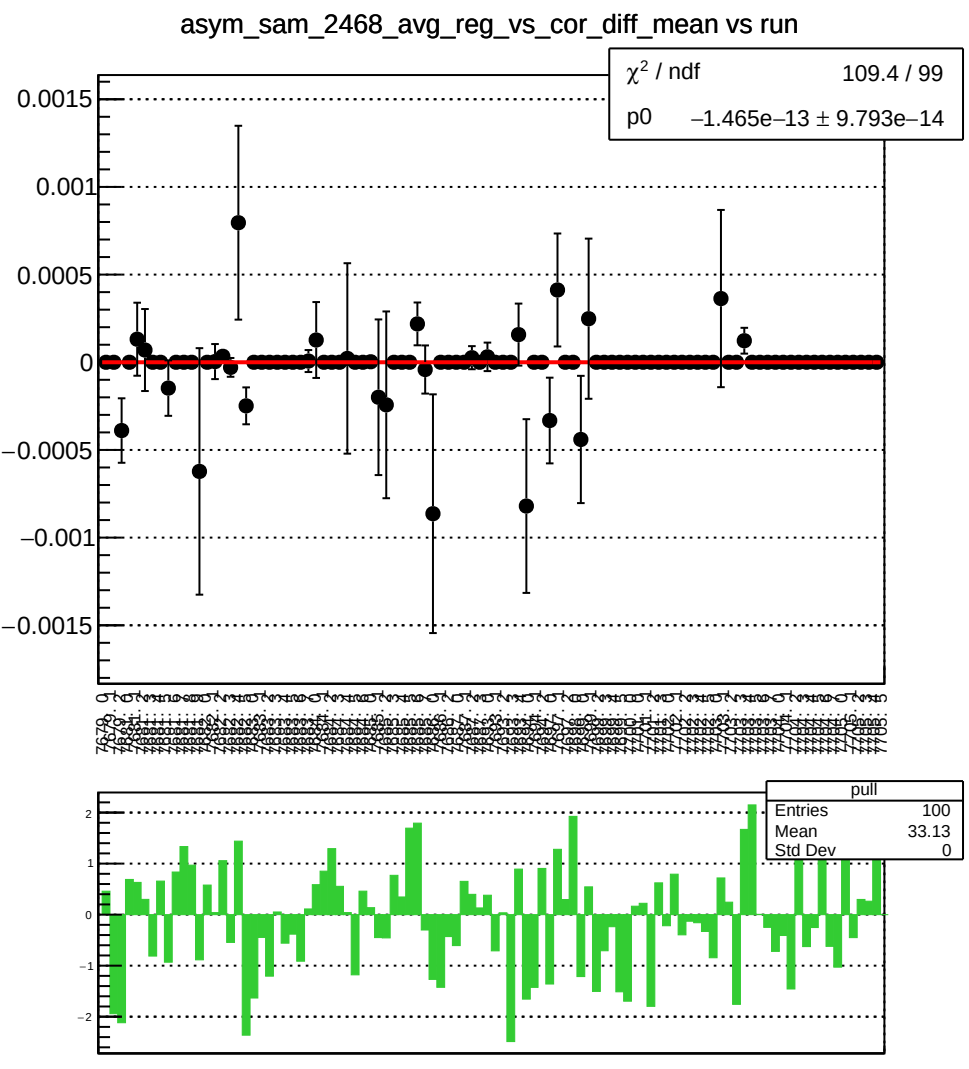

pull1D
Entries 100
Mean 0.01724
Std Dev 0.9291
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

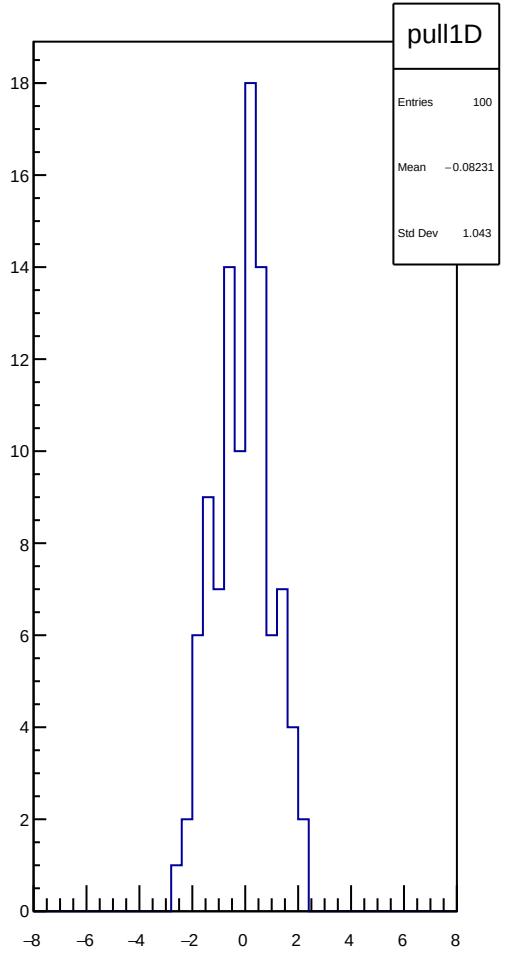

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.545e+04 / 99
p0 2427 ± 1.761
3000
2800
2600
2400
2200
2000

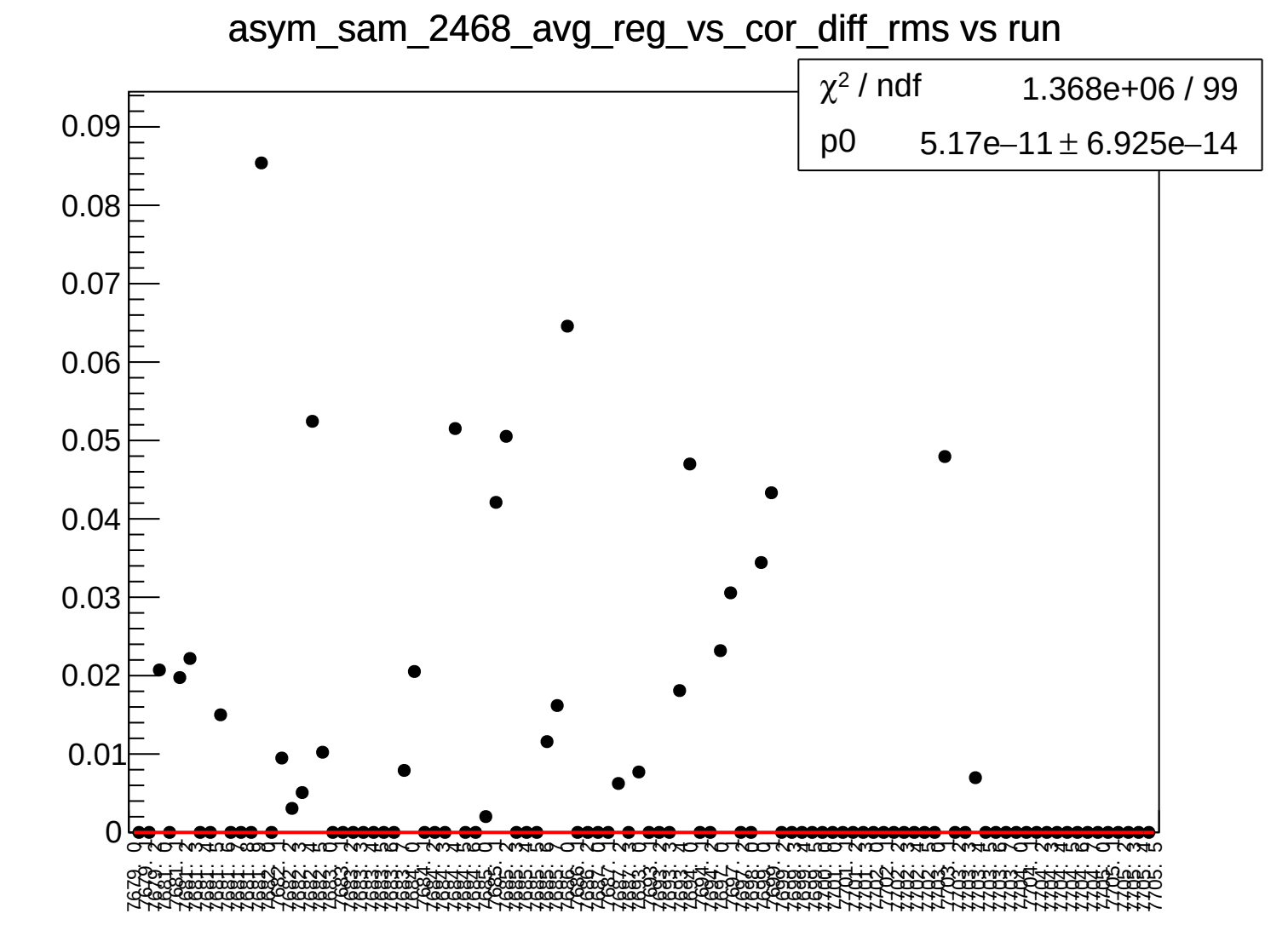

asym_sam_2468_avg_mean vs run
×10^3
χ² / ndf 84.32 / 99
p0 −318.2 ± 2478
100
50
0
−50
−100
pull
Entries 100
Mean −211.9
Std Dev 0
2
1
0
−1
−2

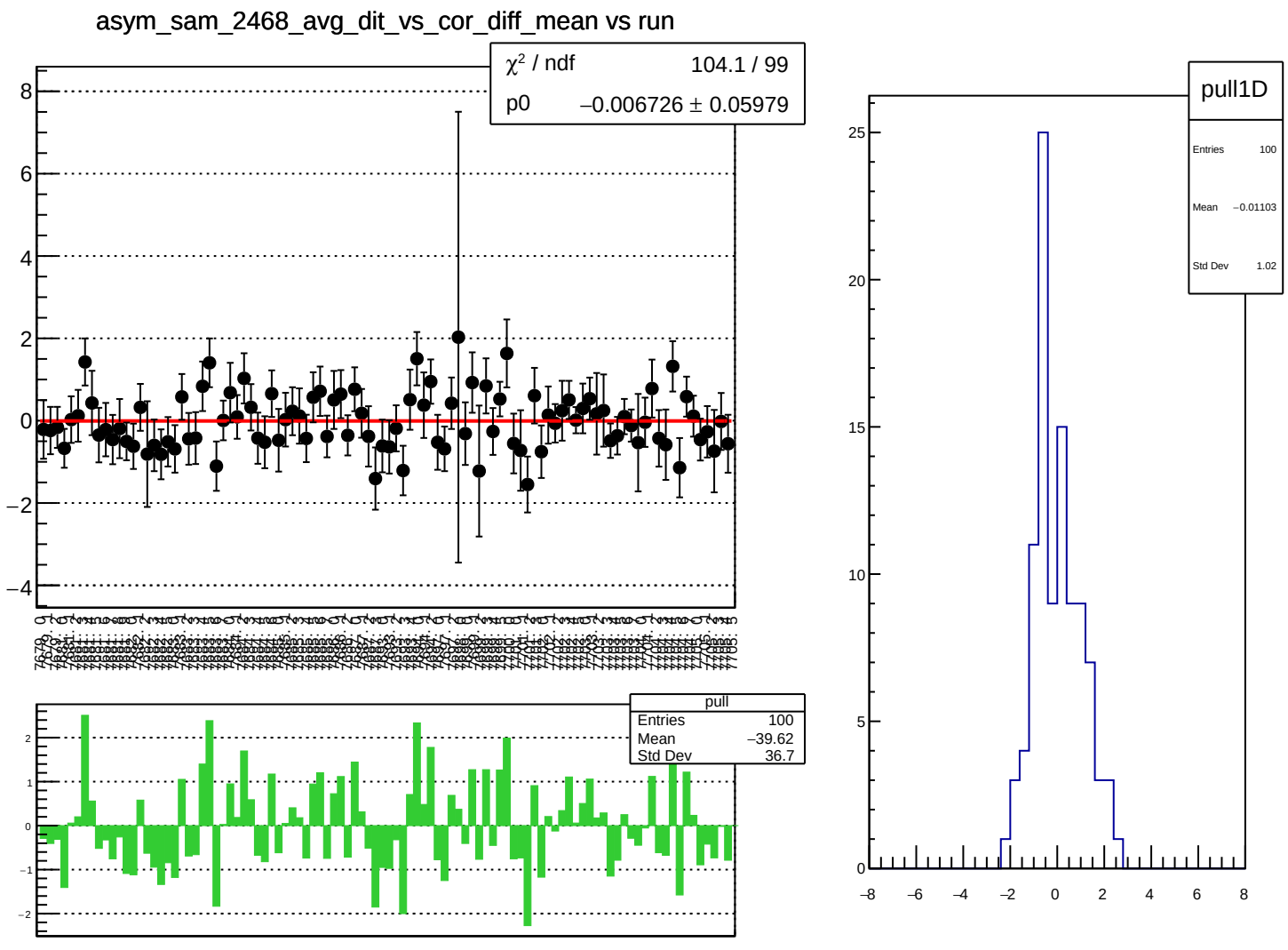

pull1D
Entries 100
Mean −0.01922
Std Dev 0.918
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

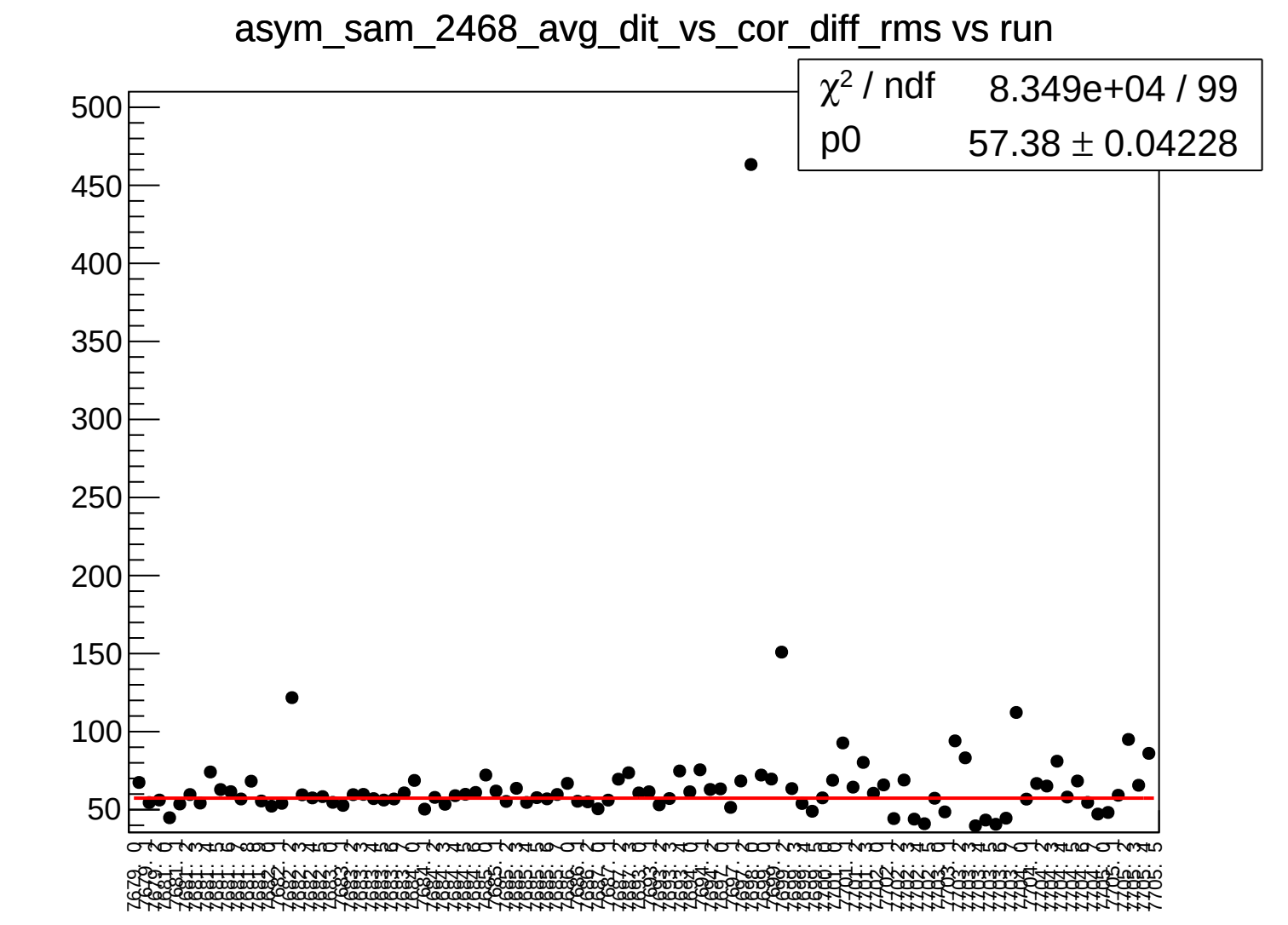

asym_sam_2468_avg_rms vs run
χ² / ndf 2.764e+04 / 99
p0 2414 ± 1.752
3000
2800
2600
2400
2200
2000

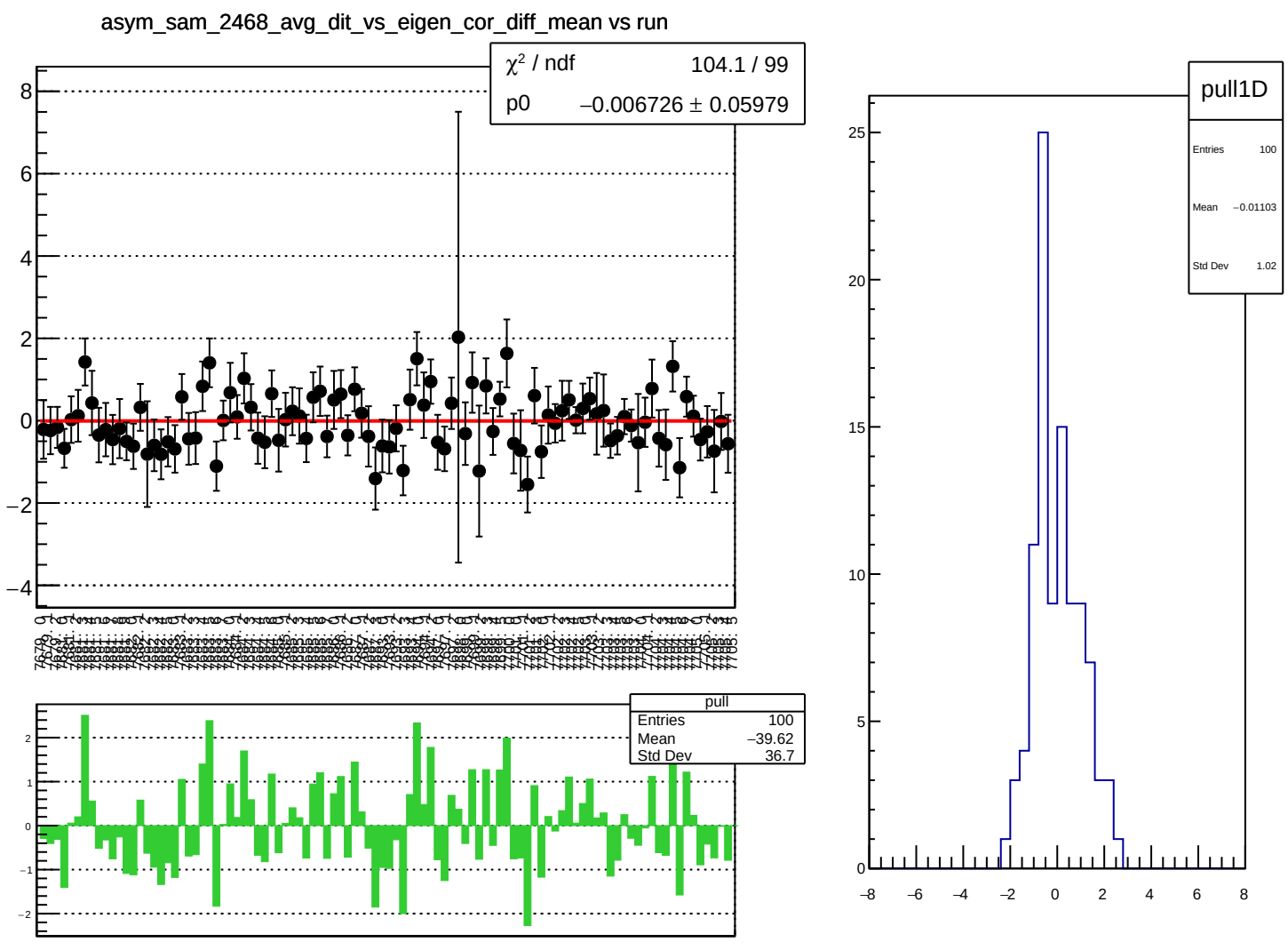

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 109.4 / 99
p0 −1.465e−13 ± 9.793e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 100
Mean 33.13
Std Dev 0
2
1
0
−1
−2

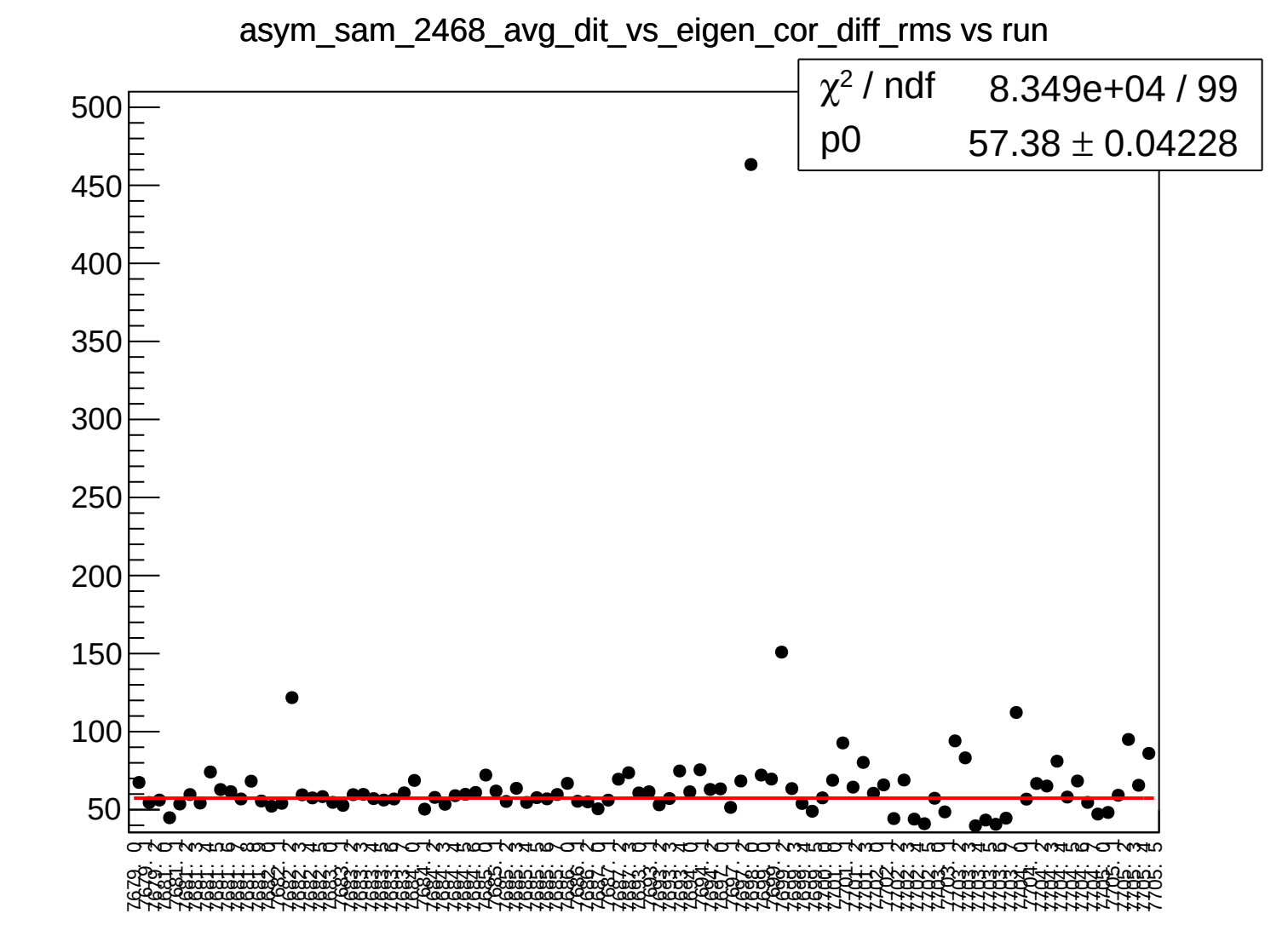

pull1D
Entries 100
Mean −0.08231
Std Dev 1.043
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

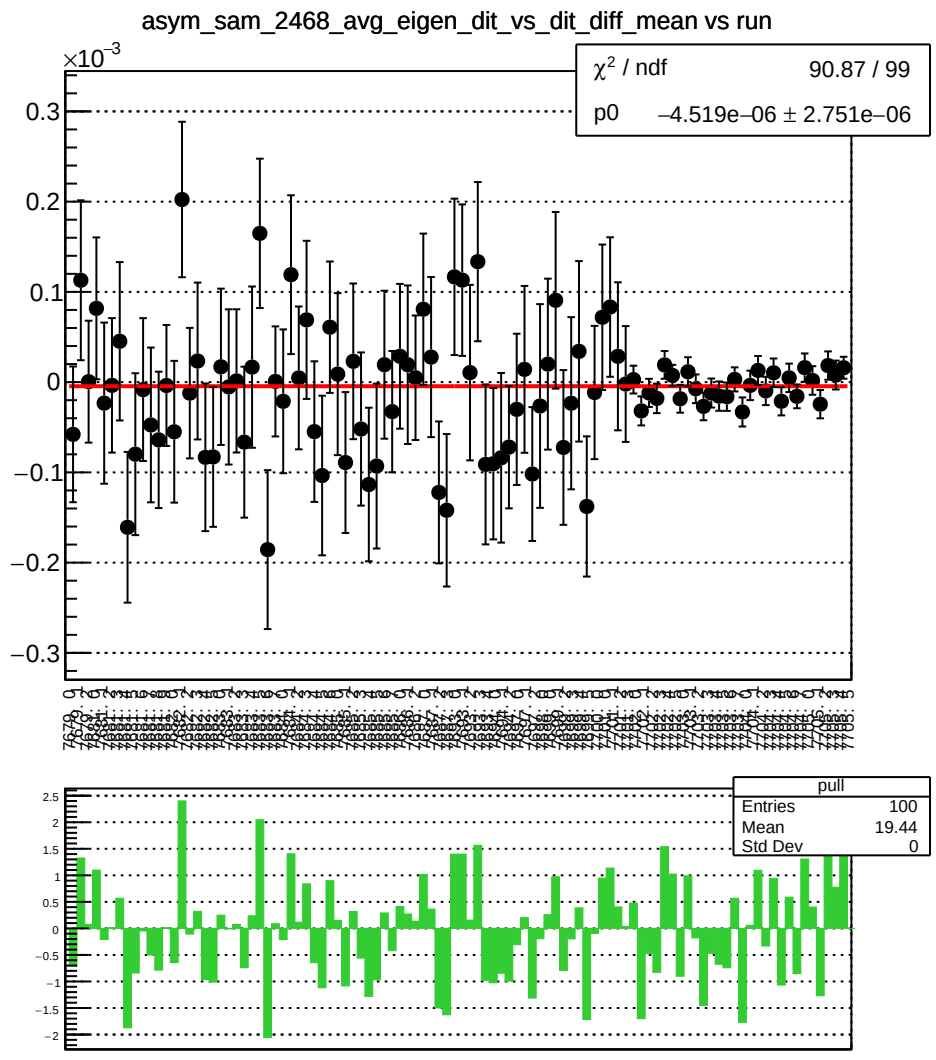

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.368e+06 / 99
p0 5.17e−11 ± 6.925e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

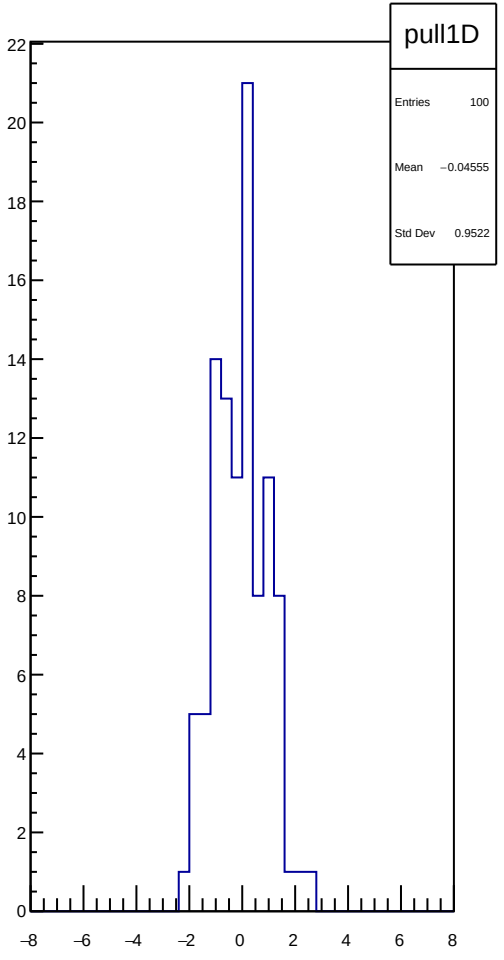

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 104.1 / 99
p0 −0.006726 ± 0.05979
pull
Entries 100
Mean −39.62
Std Dev 36.7
pull1D
Entries 100
Mean −0.01103
Std Dev 1.02

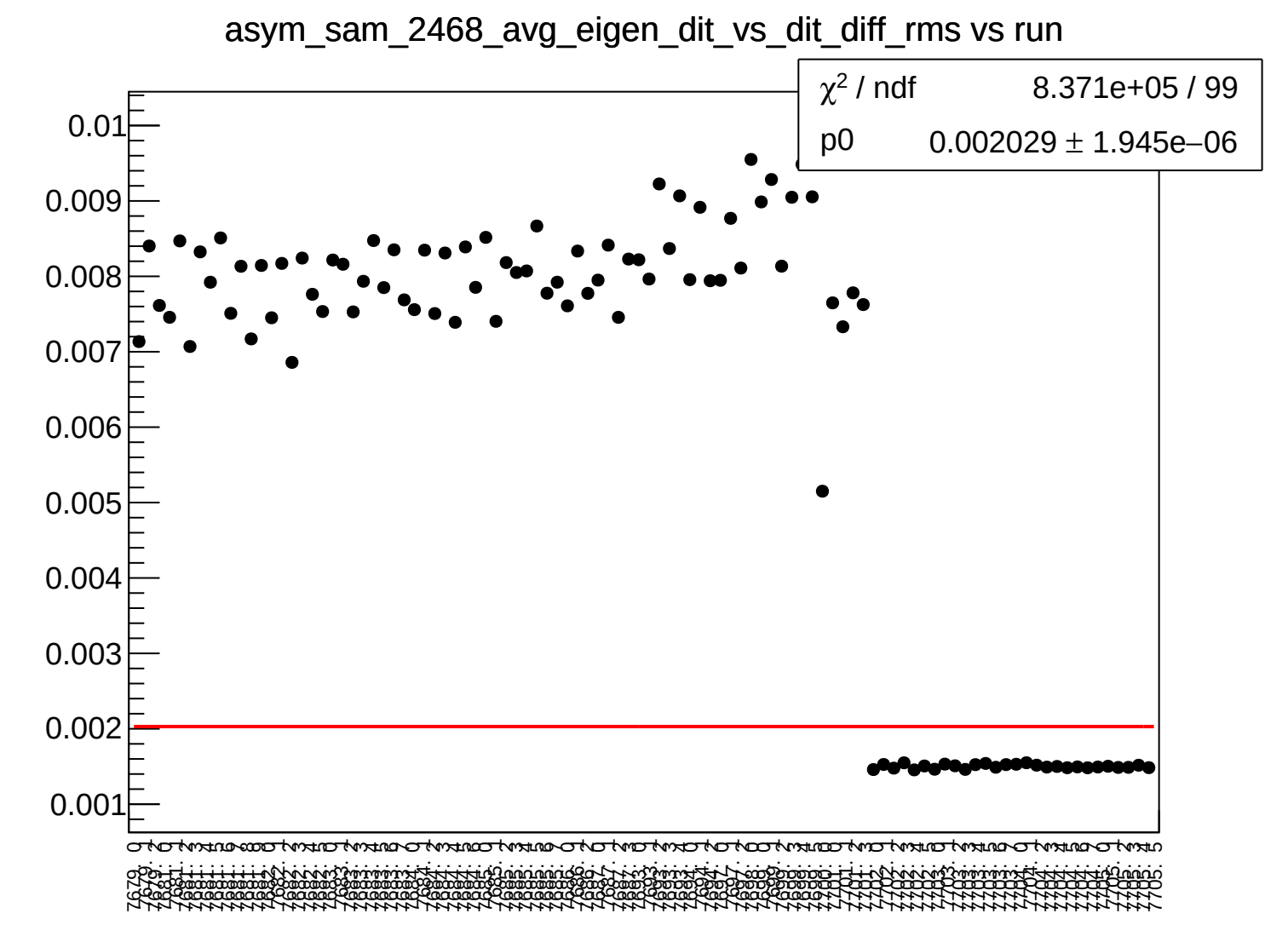

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.349e+04 / 99
p0 57.38 ± 0.04228
500
450
400
350
300
250
200
150
100
50

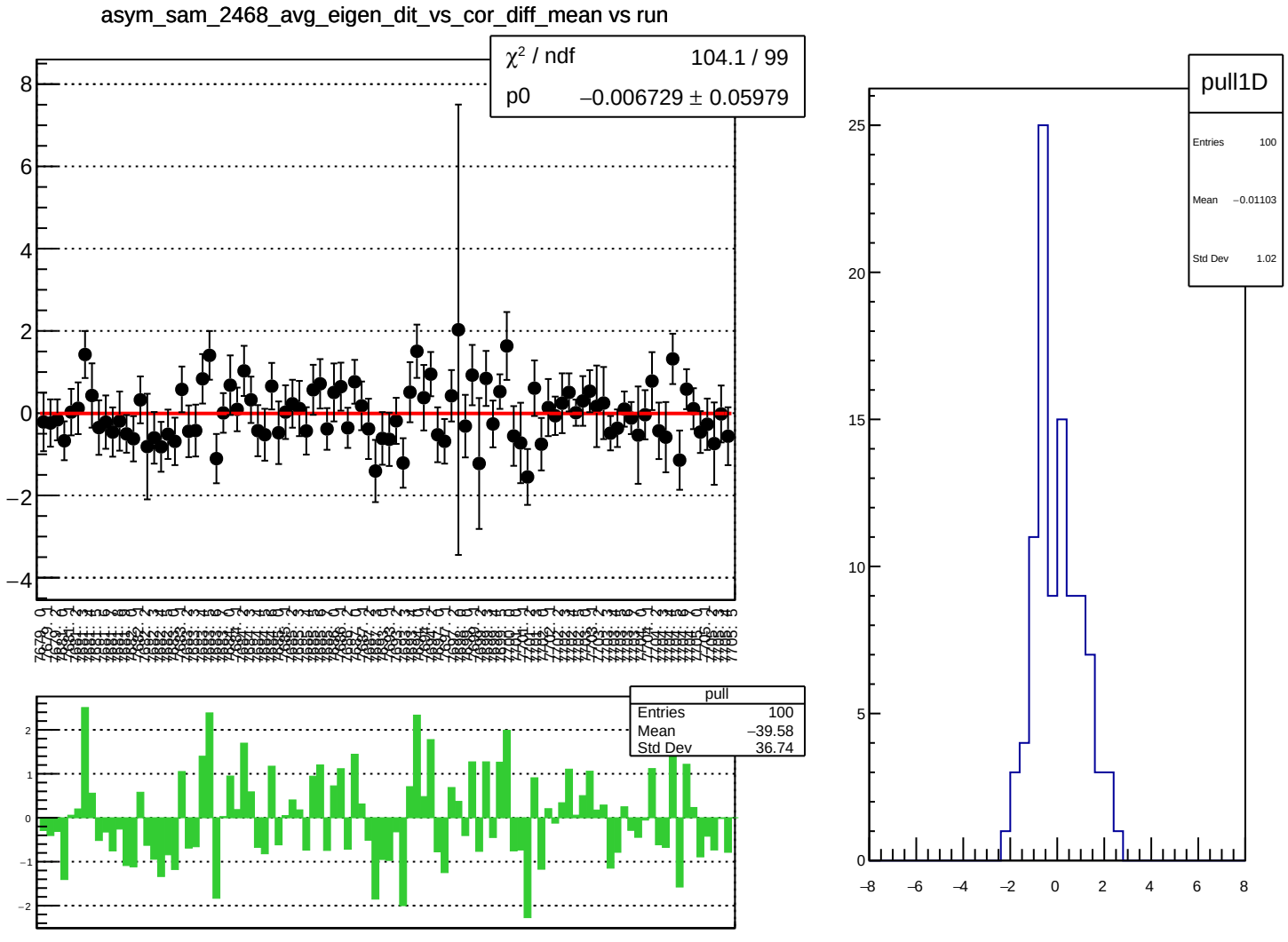

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.1 / 99
p0 −0.006726 ± 0.05979
pull
Entries 100
Mean −39.62
Std Dev 36.7
pull1D
Entries 100
Mean −0.01103
Std Dev 1.02

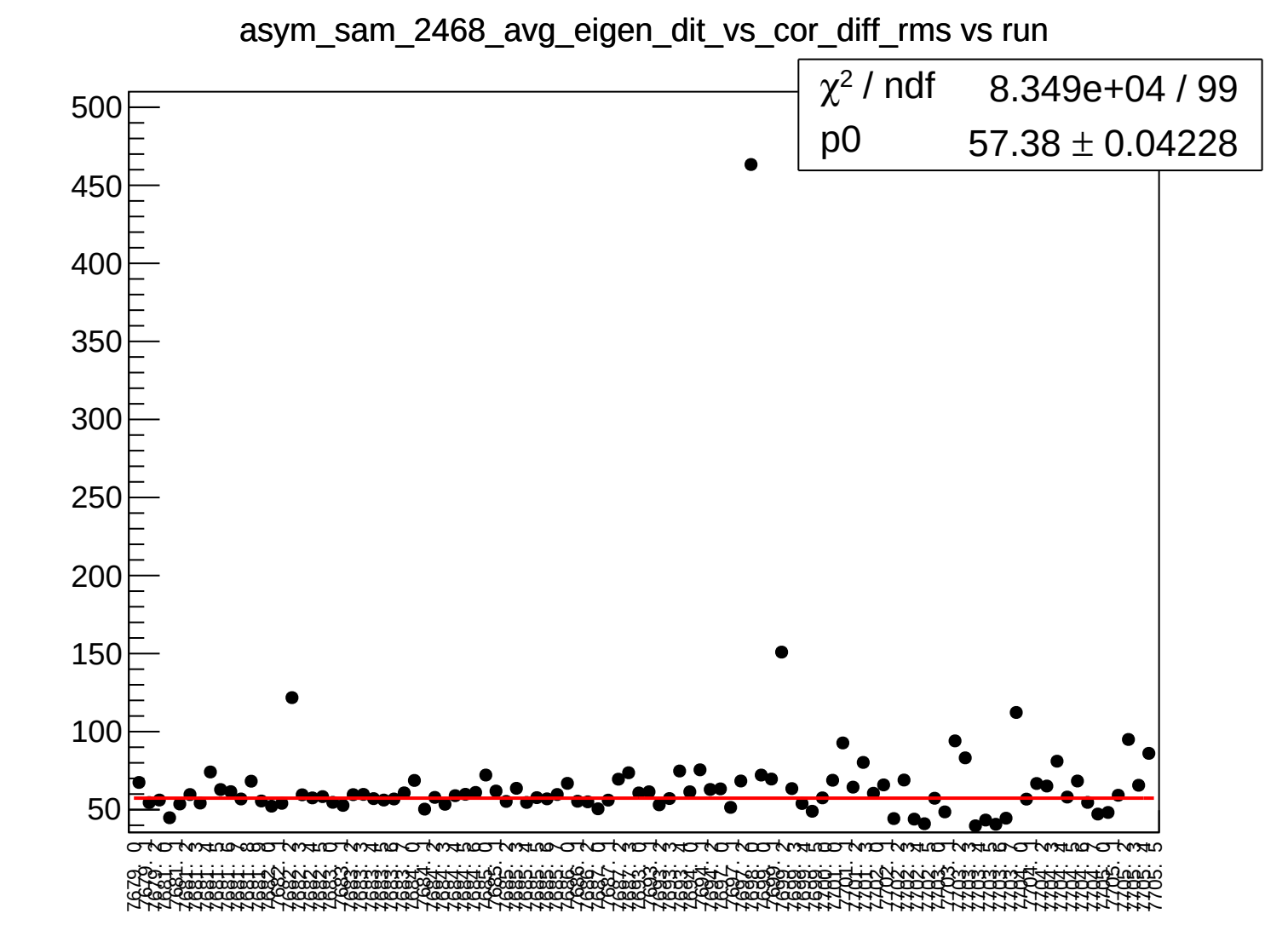

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 8.349e+04 / 99
p0 57.38 ± 0.04228
500
450
400
350
300
250
200
150
100
50

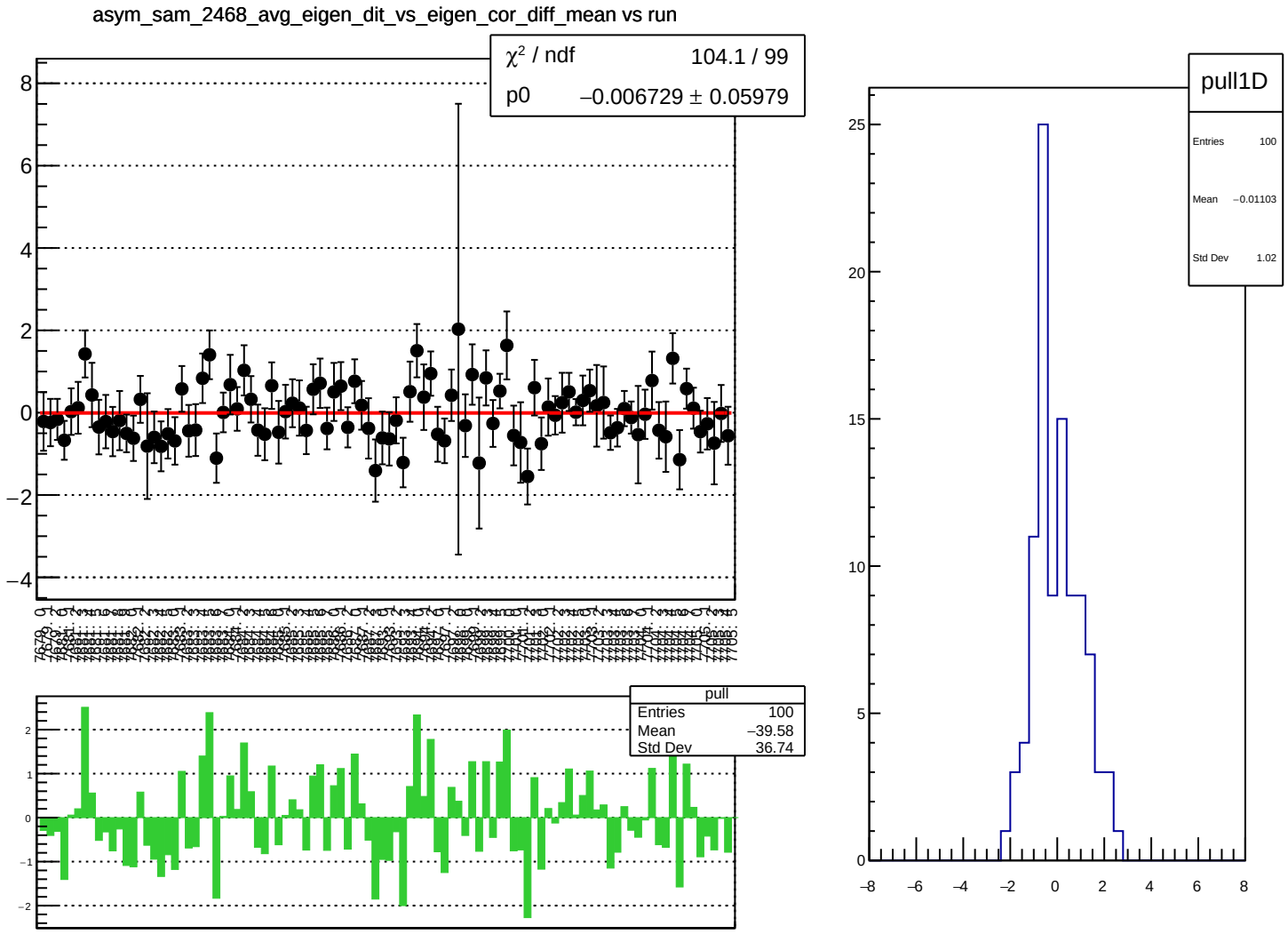

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 90.87 / 99
p0 −4.519e−06 ± 2.751e−06
pull
Entries 100
Mean 19.44
Std Dev 0

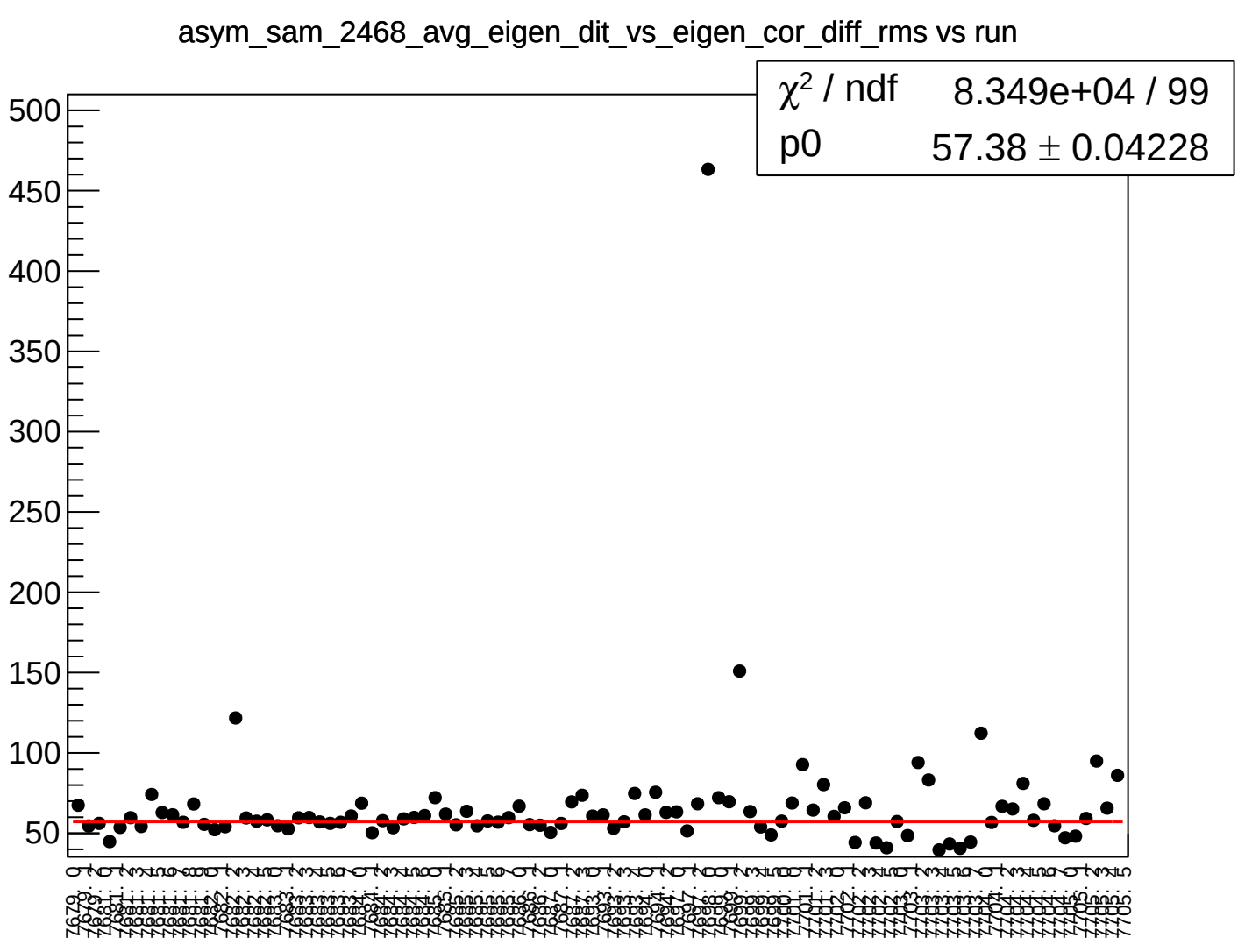

pull1D
Entries 100
Mean −0.04555
Std Dev 0.9522

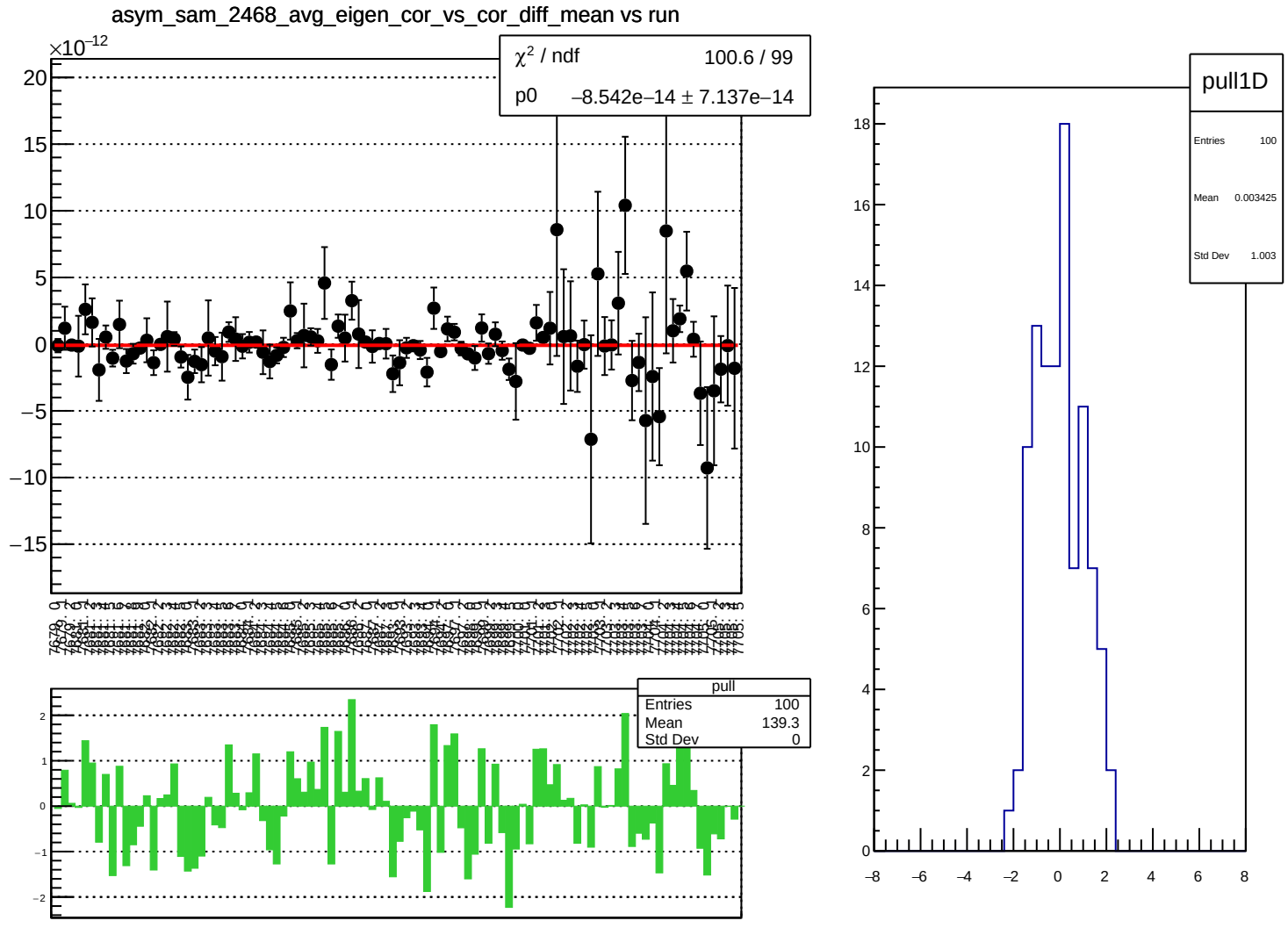

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.371e+05 / 99
p0 0.002029 ± 1.945e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

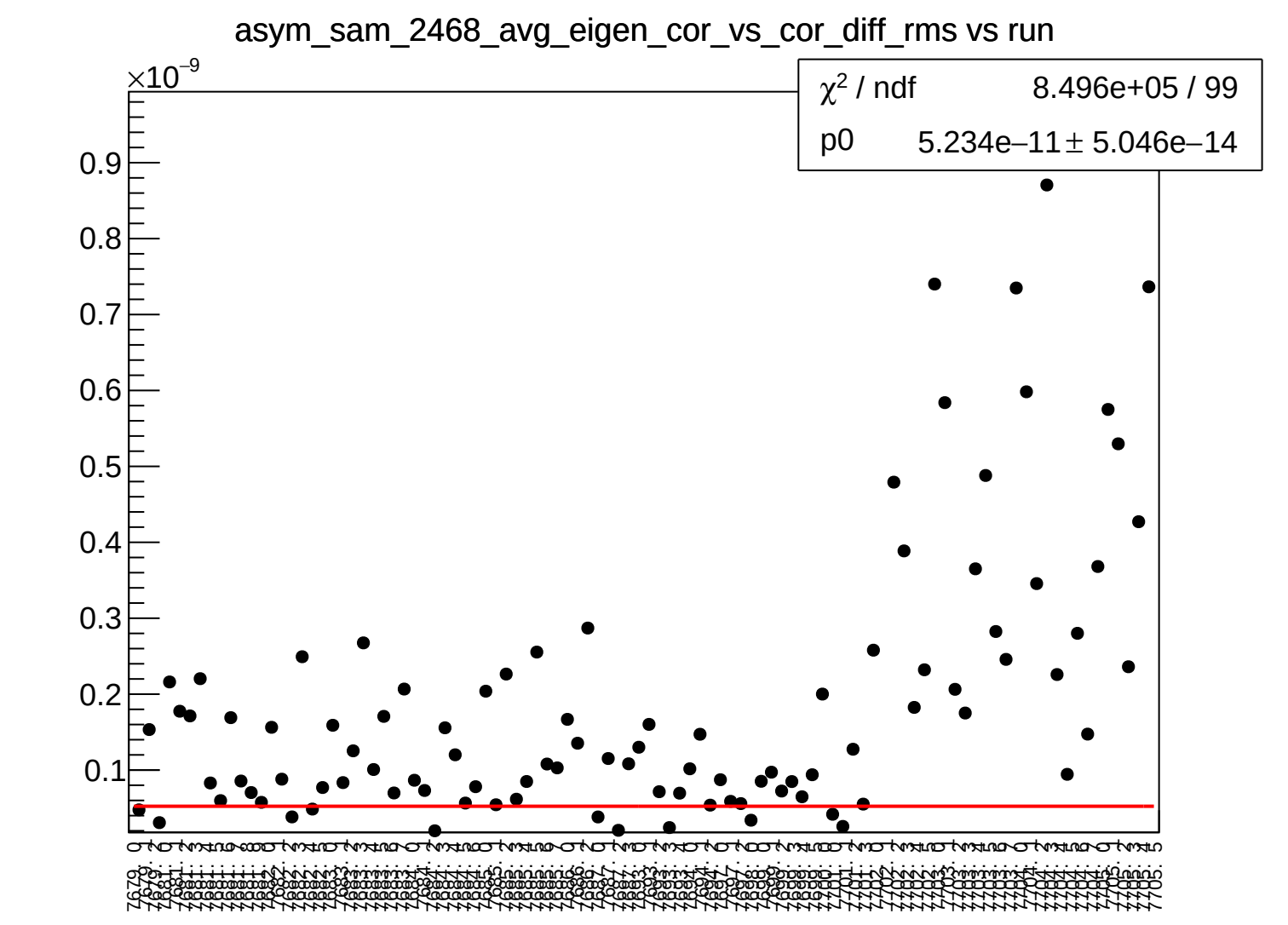

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.1 / 99
p0 −0.006729 ± 0.05979
pull
Entries 100
Mean −39.58
Std Dev 36.74
pull1D
Entries 100
Mean −0.01103
Std Dev 1.02

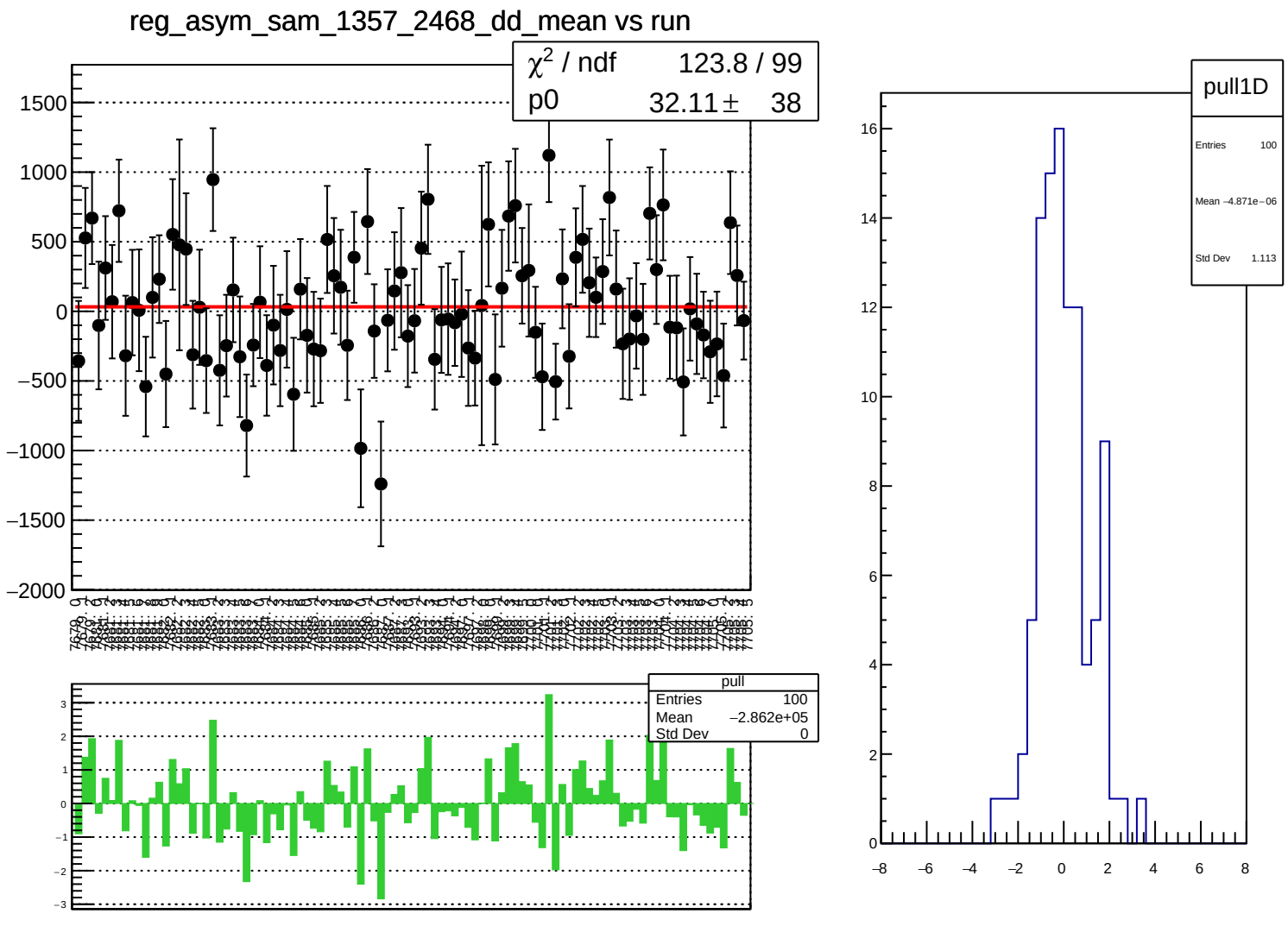

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 8.349e+04 / 99
p0 57.38 ± 0.04228
500
450
400
350
300
250
200
150
100
50

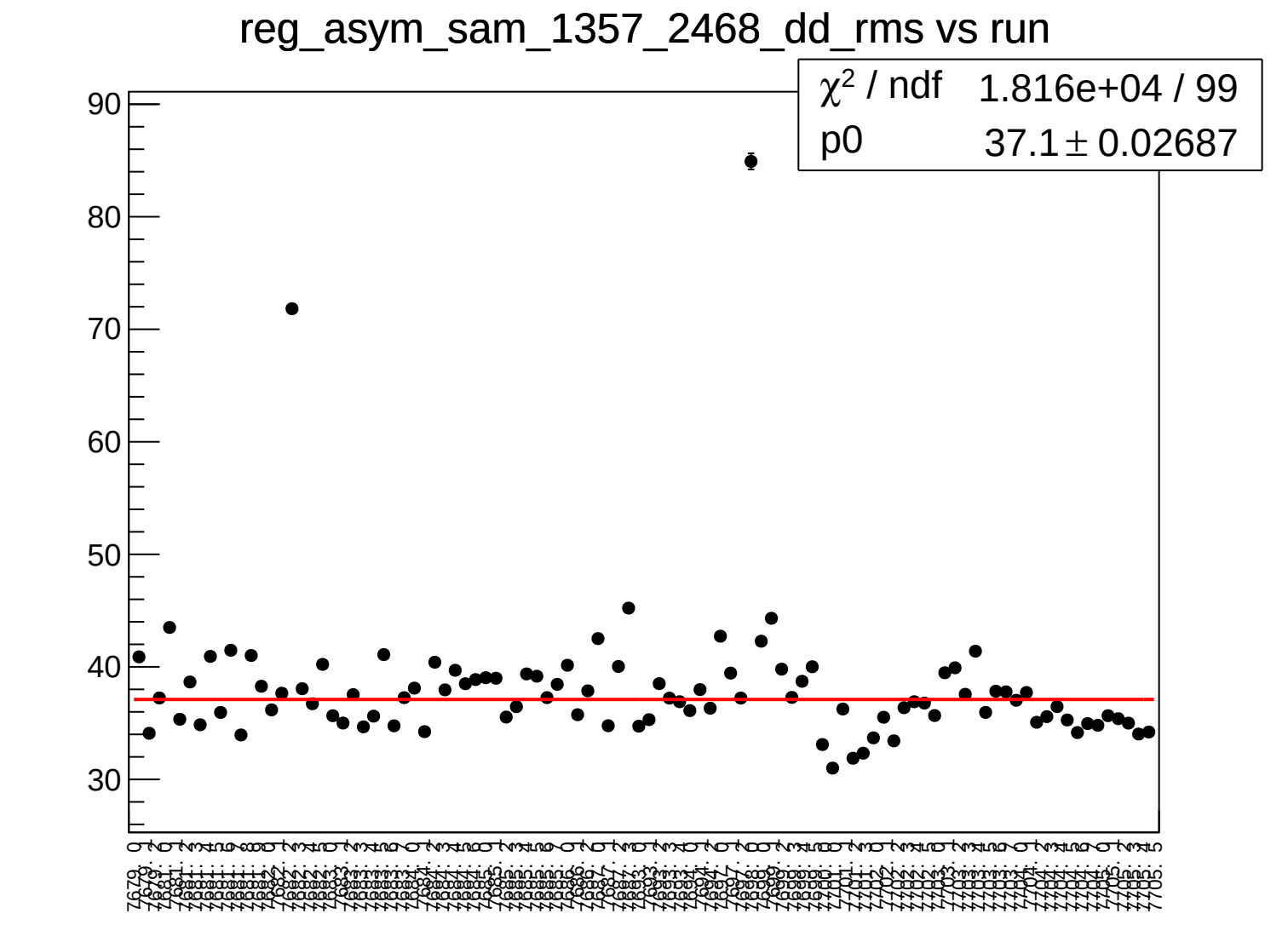

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.1 / 99
p0 −0.006729 ± 0.05979
pull
Entries 100
Mean −39.58
Std Dev 36.74
pull1D
Entries 100
Mean −0.01103
Std Dev 1.02

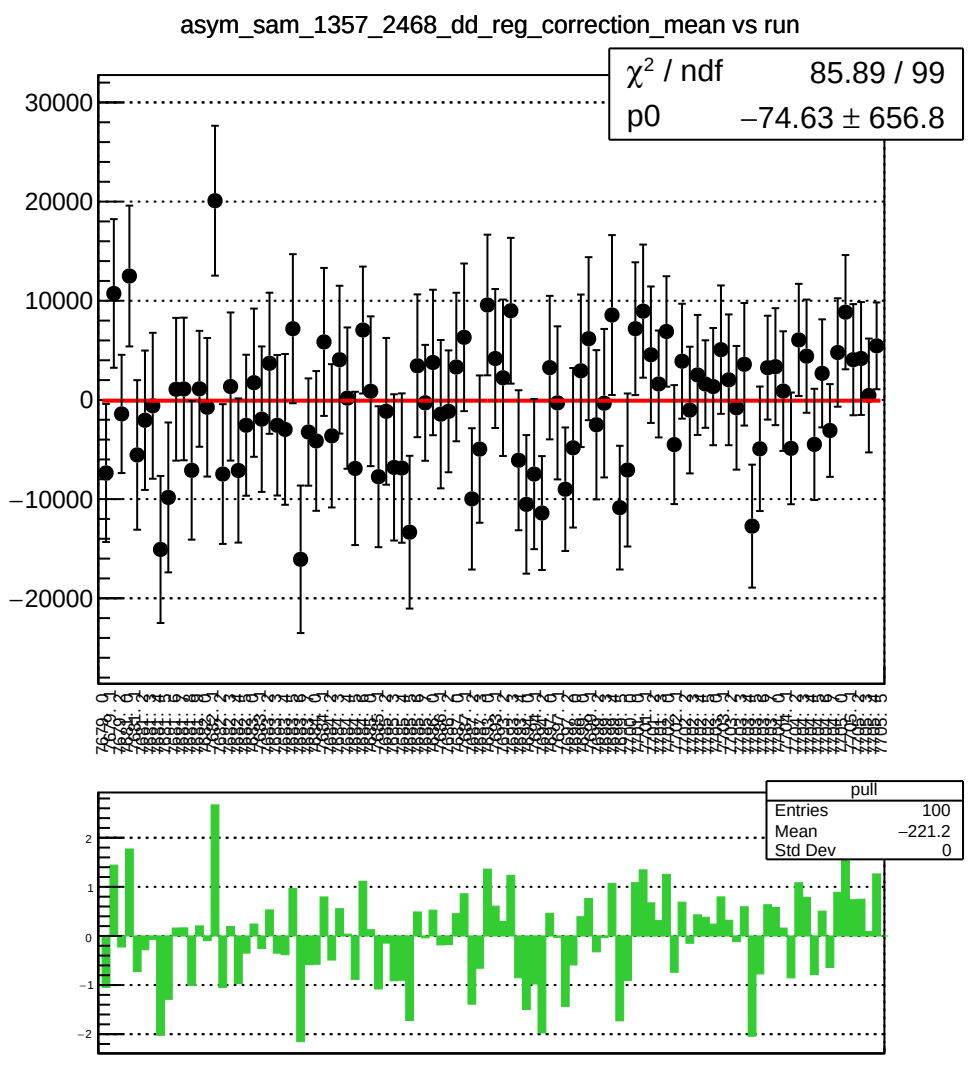

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.349e+04 / 99
p0 57.38 ± 0.04228
500
450
400
350
300
250
200
150
100
50

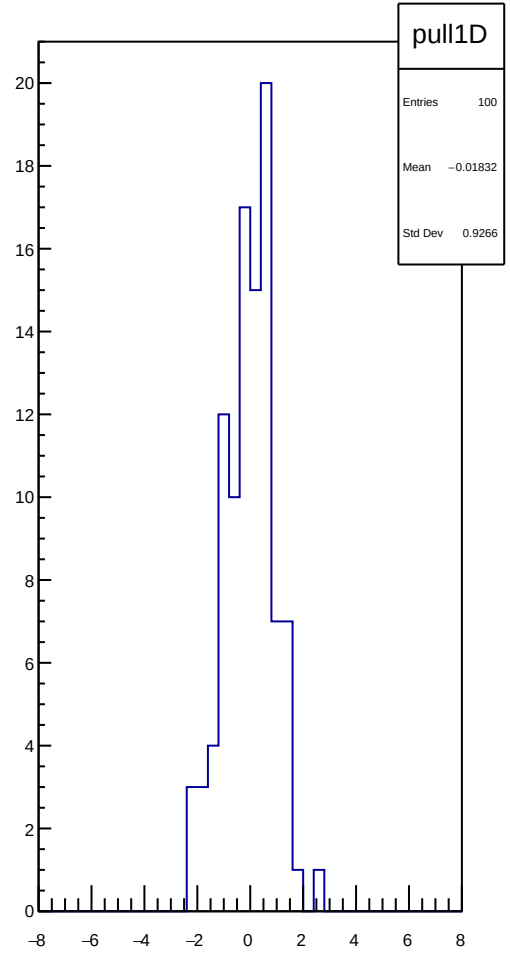

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 100.6 / 99
p0 −8.542e−14 ± 7.137e−14
pull
Entries 100
Mean 139.3
Std Dev 0
pull1D
Entries 100
Mean 0.003425
Std Dev 1.003

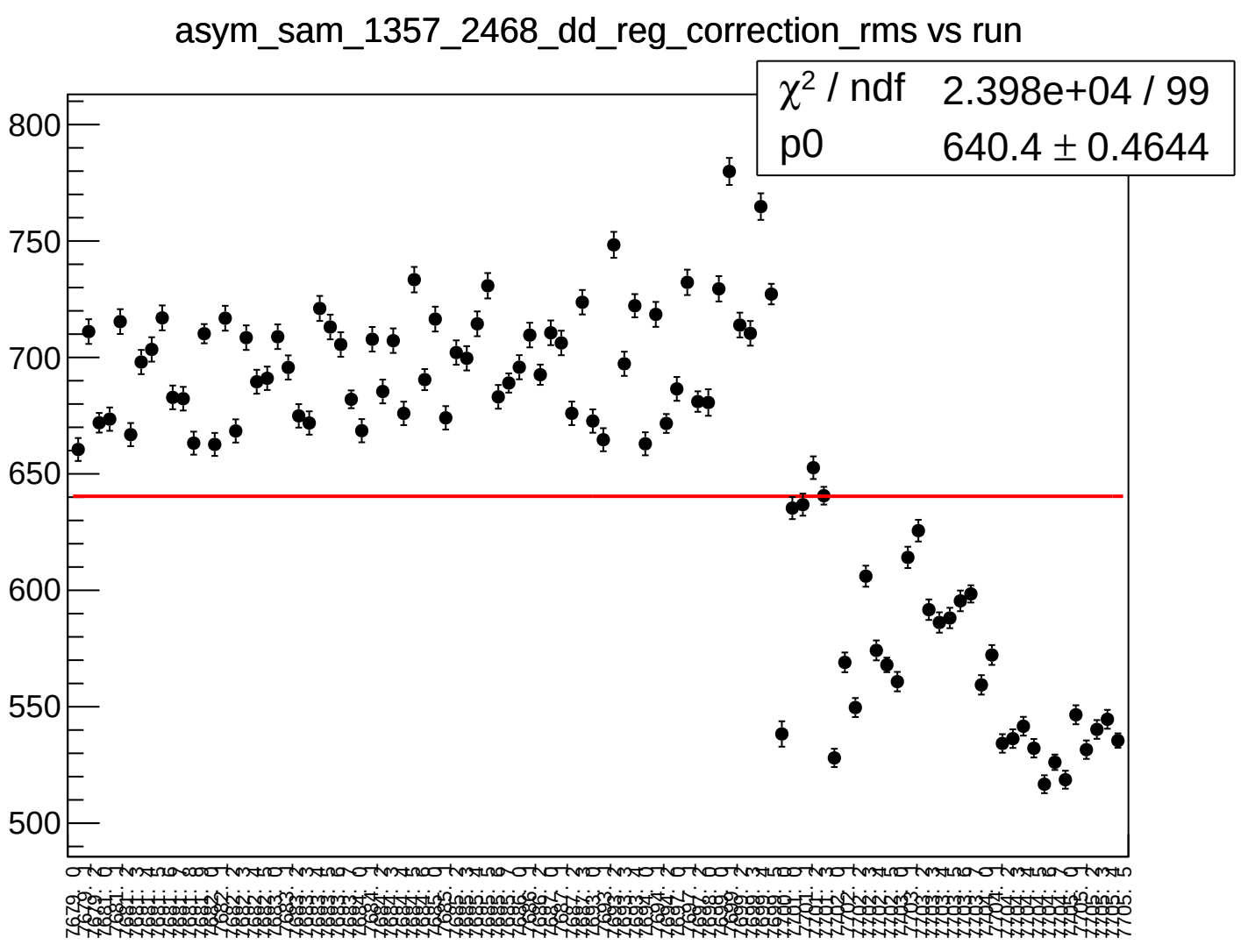

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.496e+05 / 99
p0 5.234e−11 ± 5.046e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

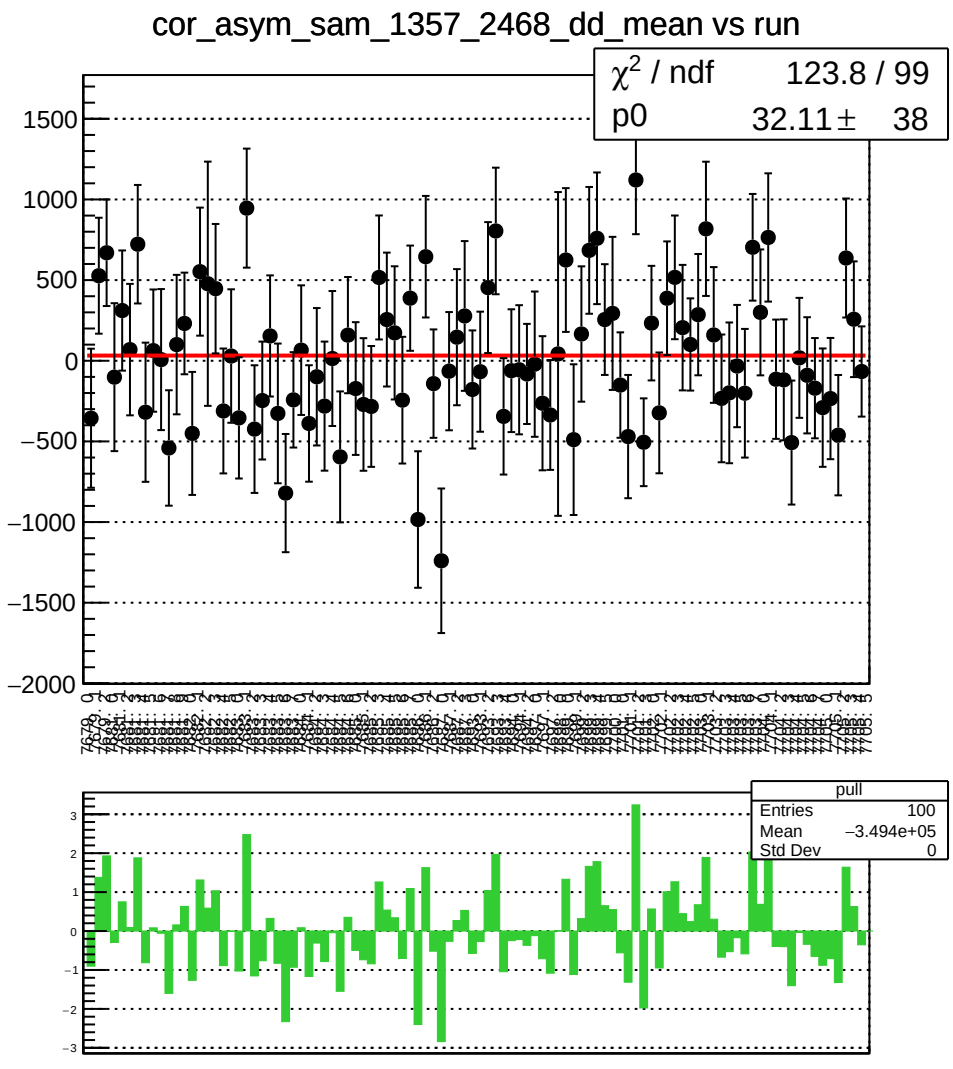

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 123.8 / 99
p0 32.11 ± 38
pull
Entries 100
Mean −2.862e+05
Std Dev 0
pull1D
Entries 100
Mean −4.871e−06
Std Dev 1.113

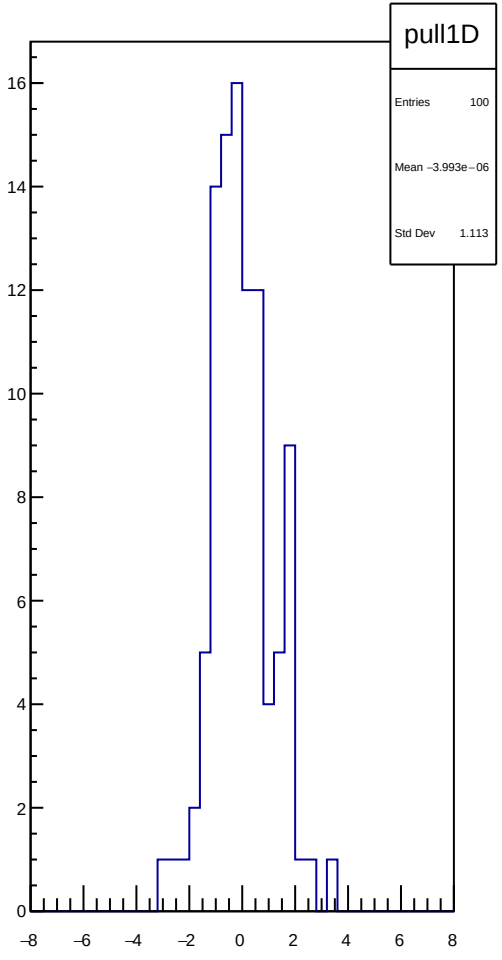

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.816e+04 / 99
p0 37.1 ± 0.02687
90
80
70
60
50
40
30

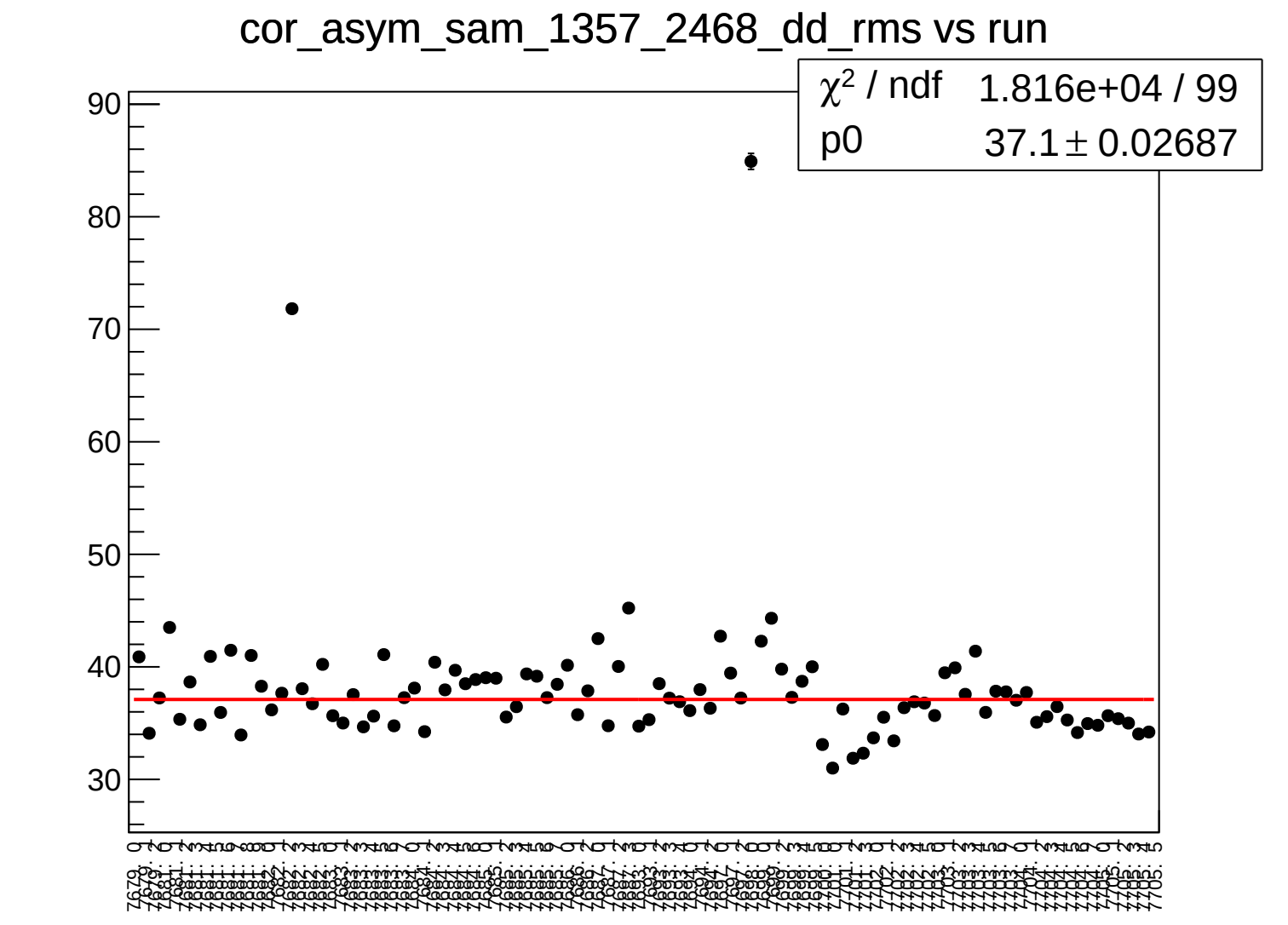

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 85.89 / 99
p0 −74.63 ± 656.8
30000
20000
10000
0
−10000
−20000
pull
Entries 100
Mean −221.2
Std Dev 0
2
1
0
−1
−2

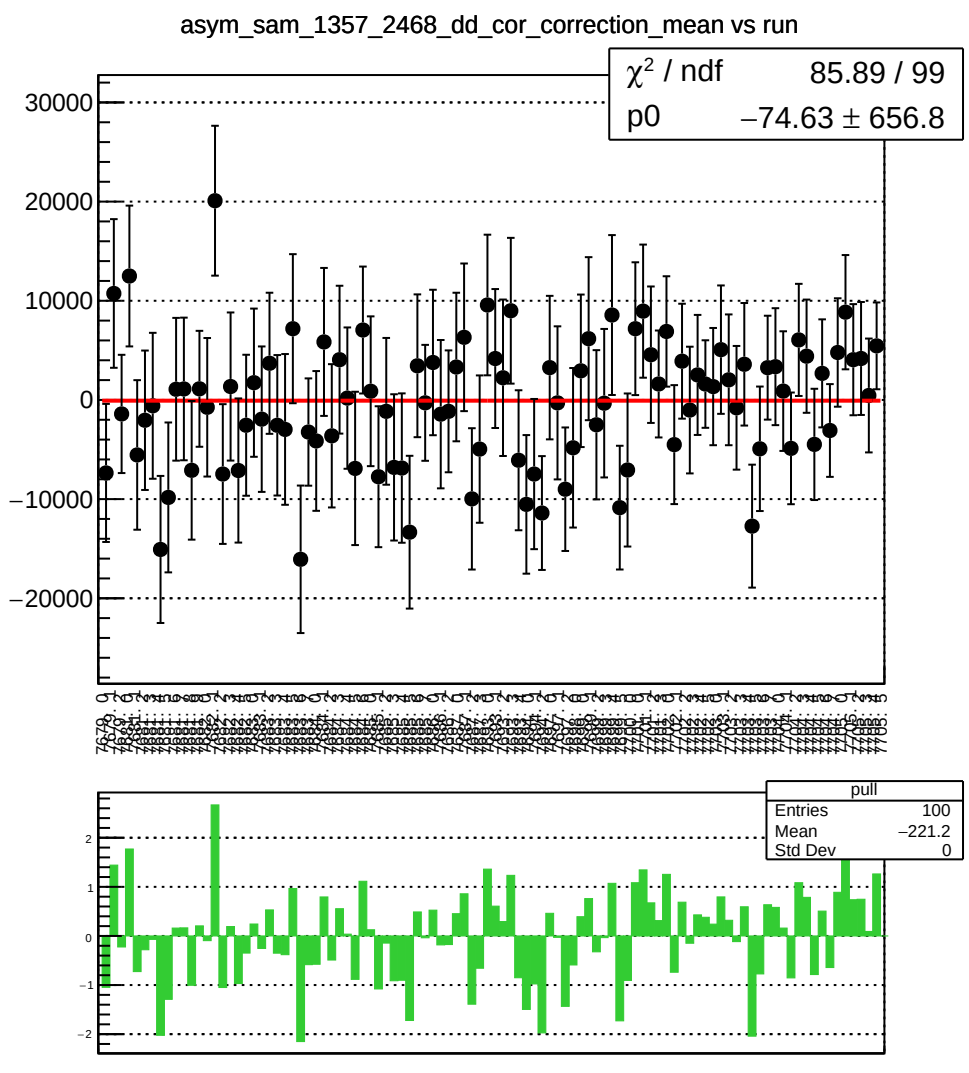

pull1D
Entries 100
Mean −0.01832
Std Dev 0.9266
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

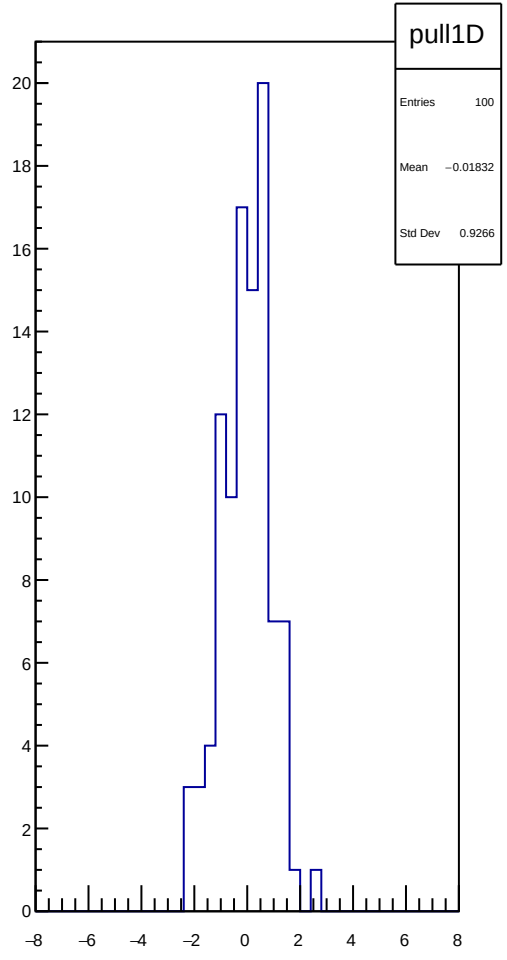

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 2.398e+04 / 99
p0 640.4 ± 0.4644
800
750
700
650
600
550
500

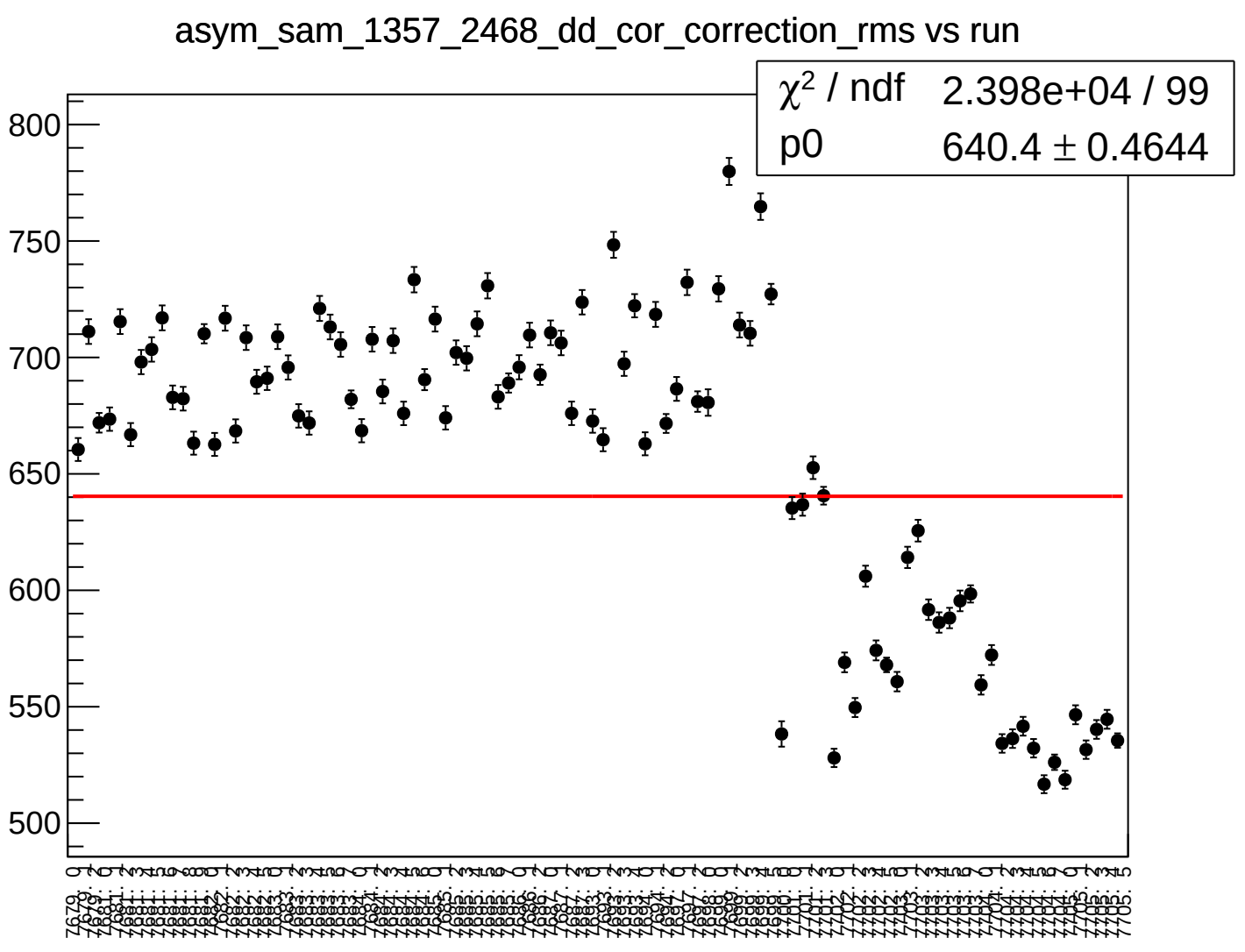

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 123.8 / 99
p0 32.11 ± 38
pull
Entries 100
Mean −3.494e+05
Std Dev 0

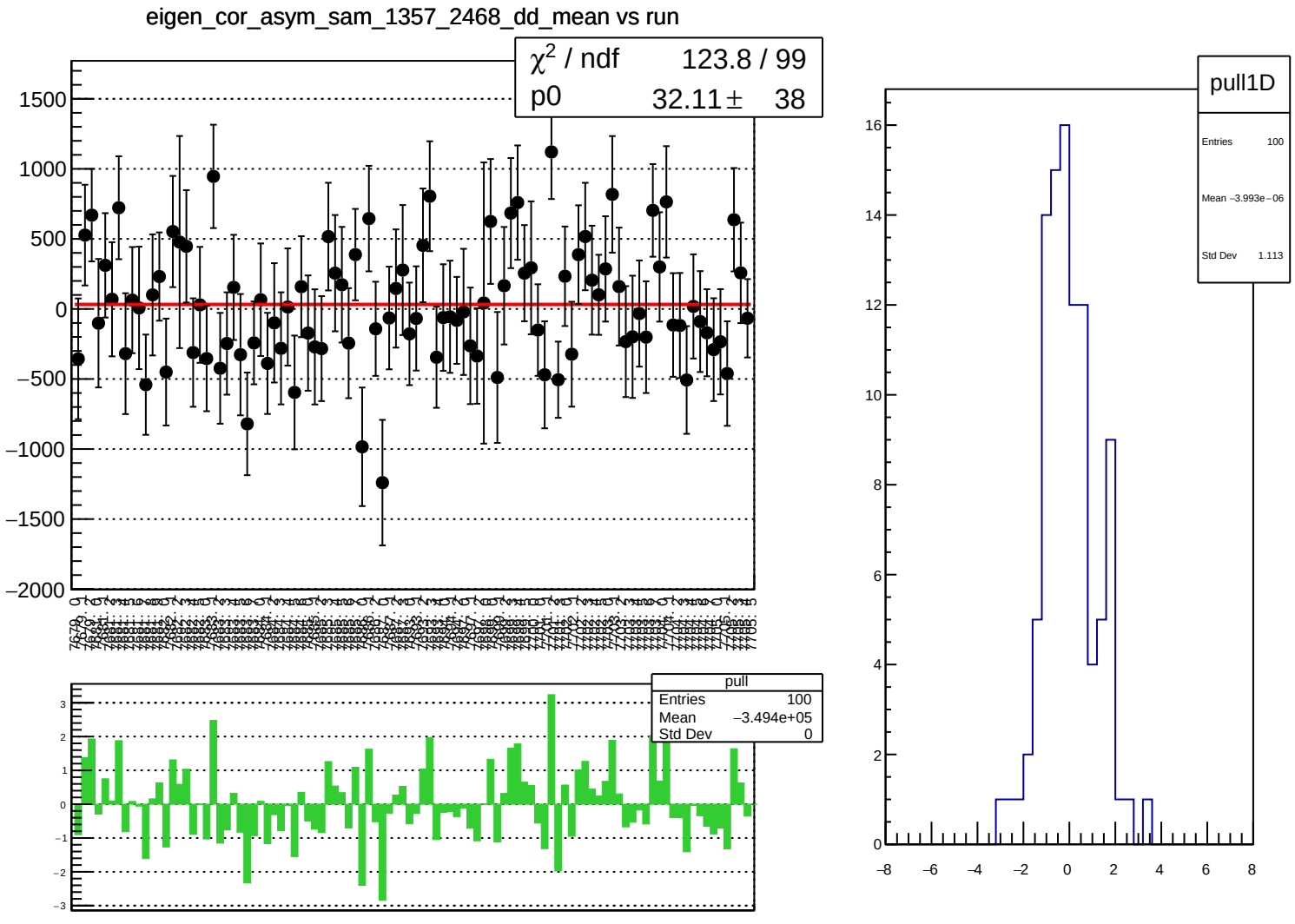

pull1D
Entries 100
Mean −3.993e−06
Std Dev 1.113

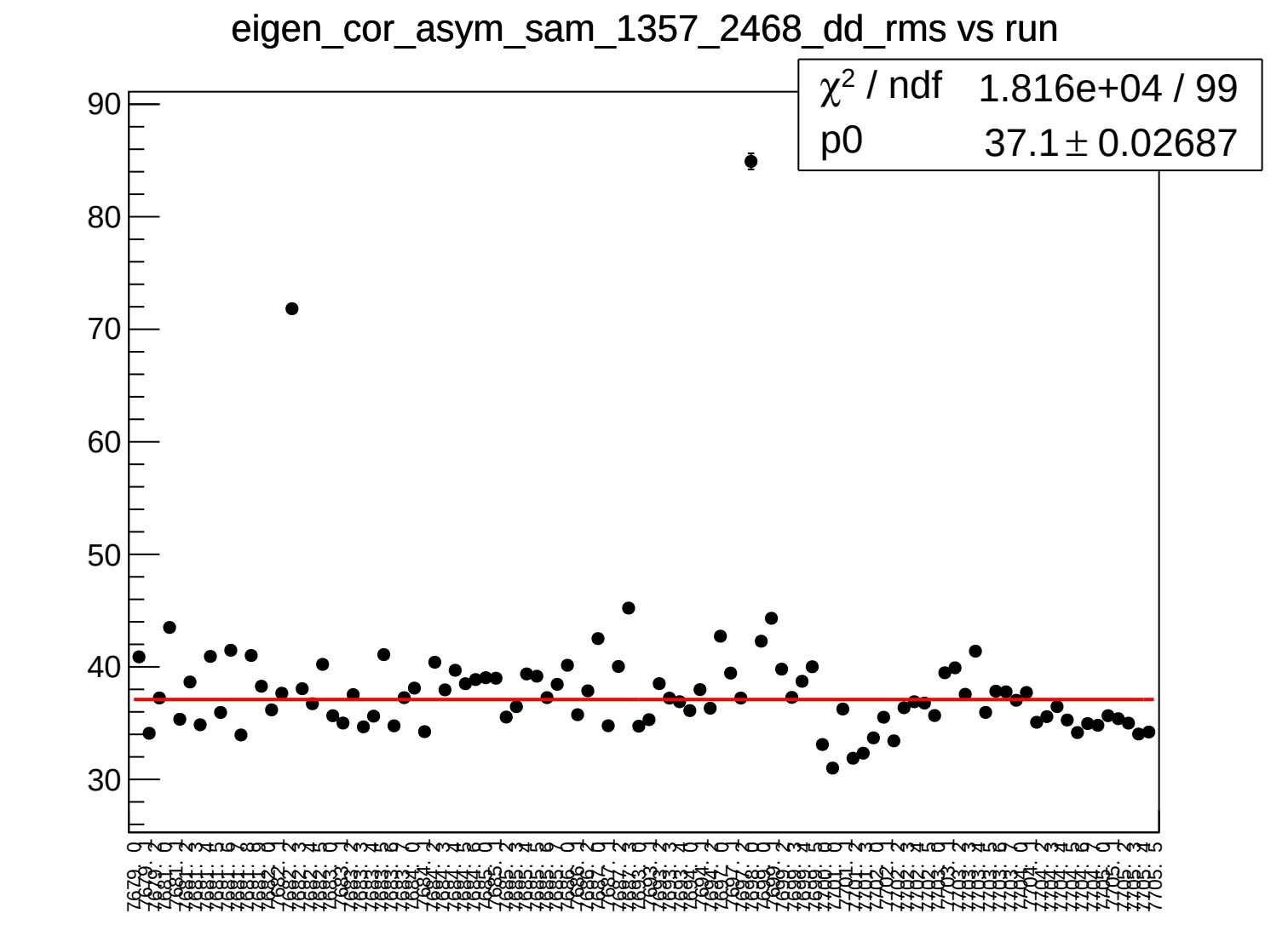

cor_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 1.816e+04 / 99
p0 37.1 ± 0.02687
90
80
70
60
50
40
30

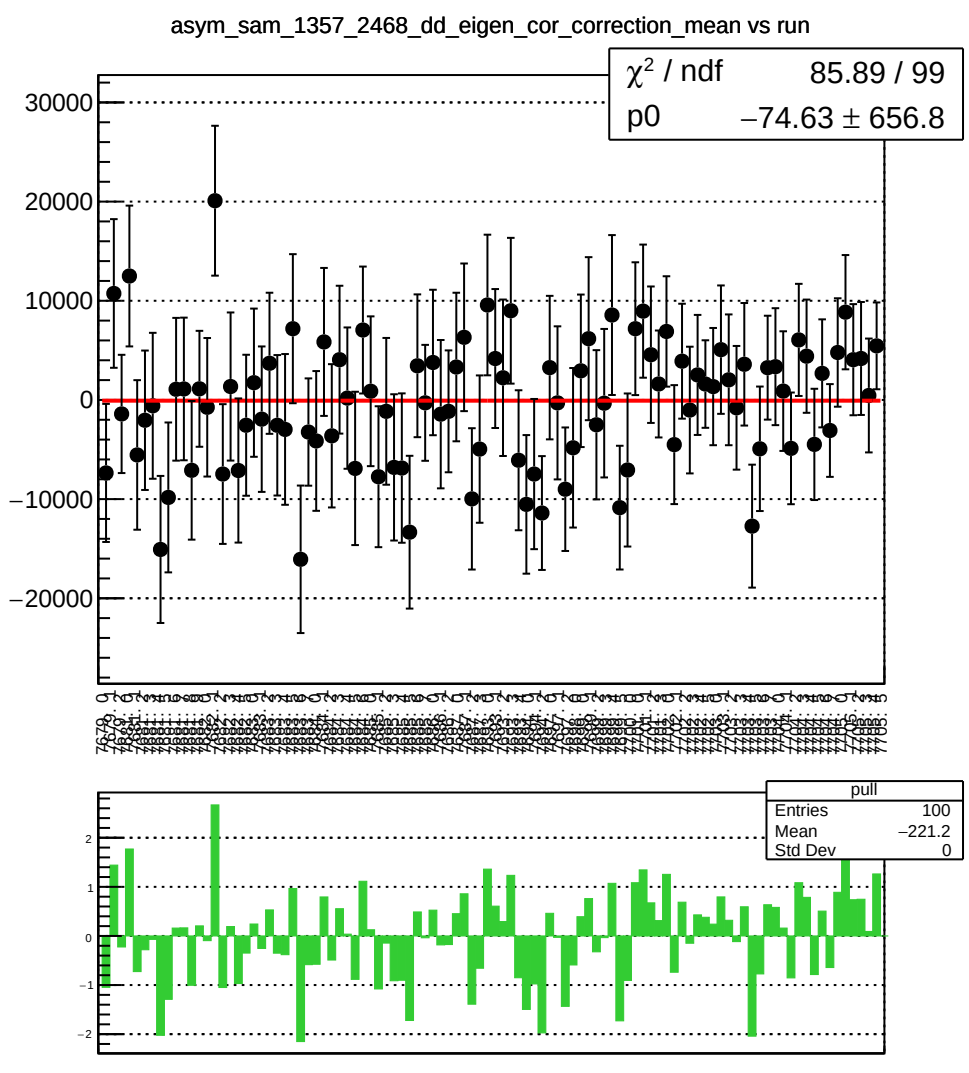

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 85.89 / 99
p0 −74.63 ± 656.8
30000
20000
10000
0
−10000
−20000
pull
Entries 100
Mean −221.2
Std Dev 0
2
1
0
−1
−2

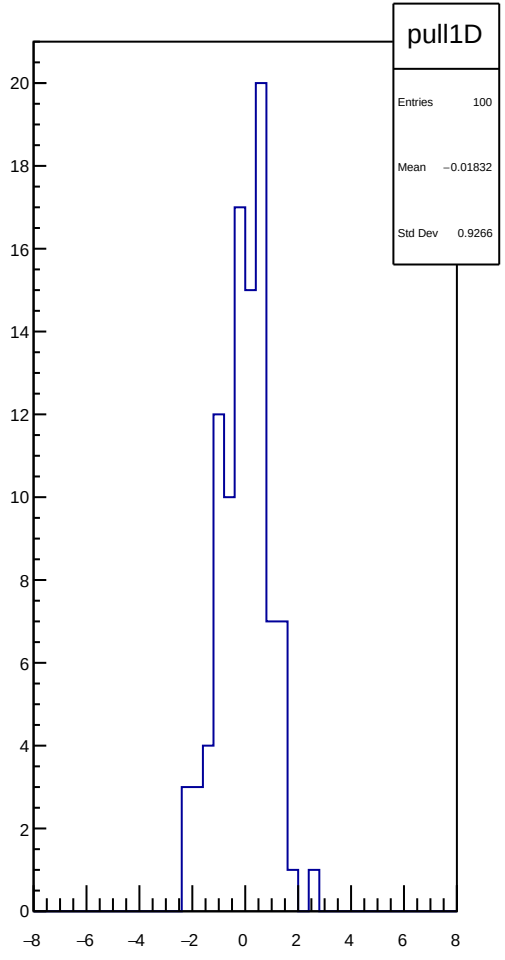

pull1D
Entries 100
Mean −0.01832
Std Dev 0.9266
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

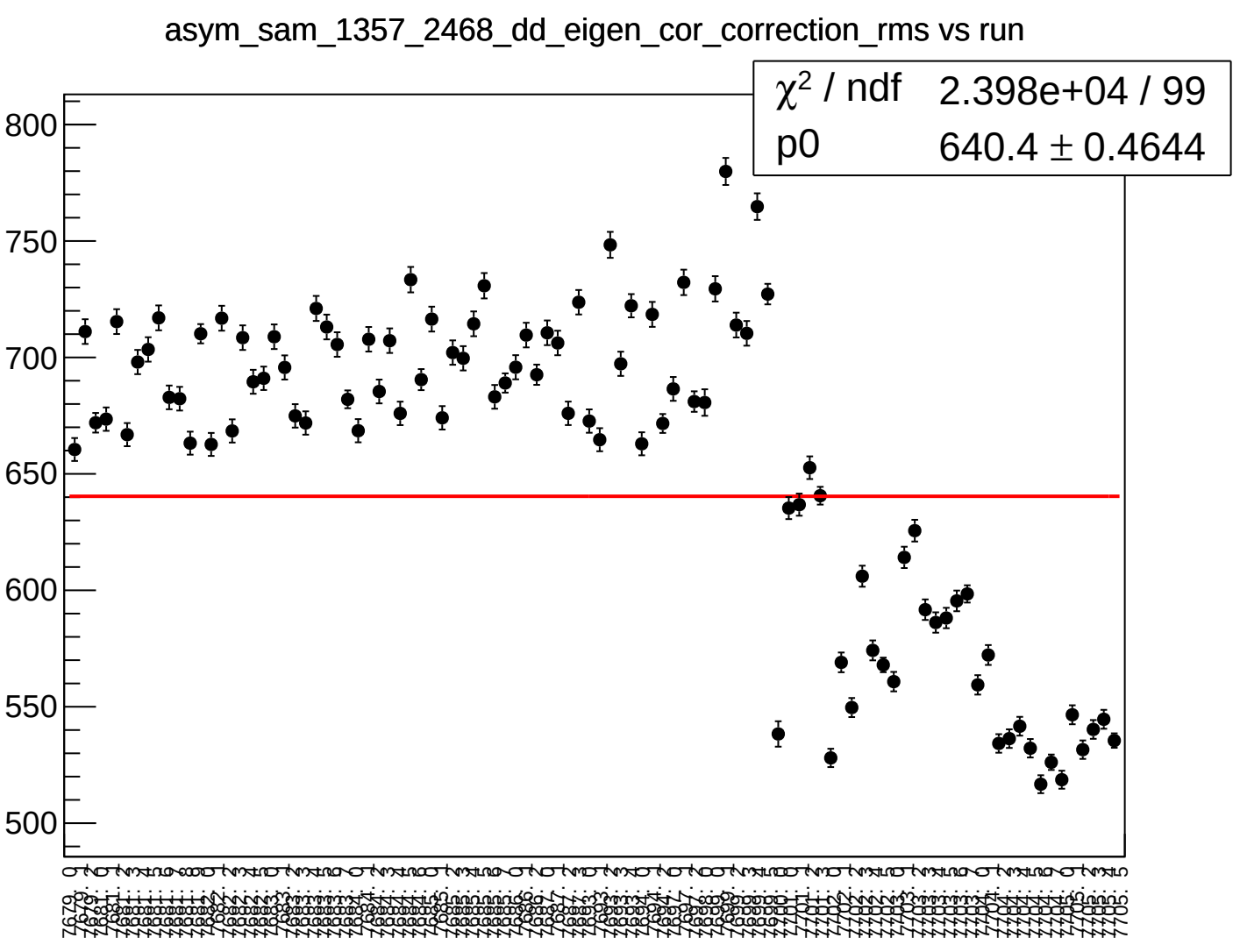

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 2.398e+04 / 99
p0 640.4 ± 0.4644
800
750
700
650
600
550
500

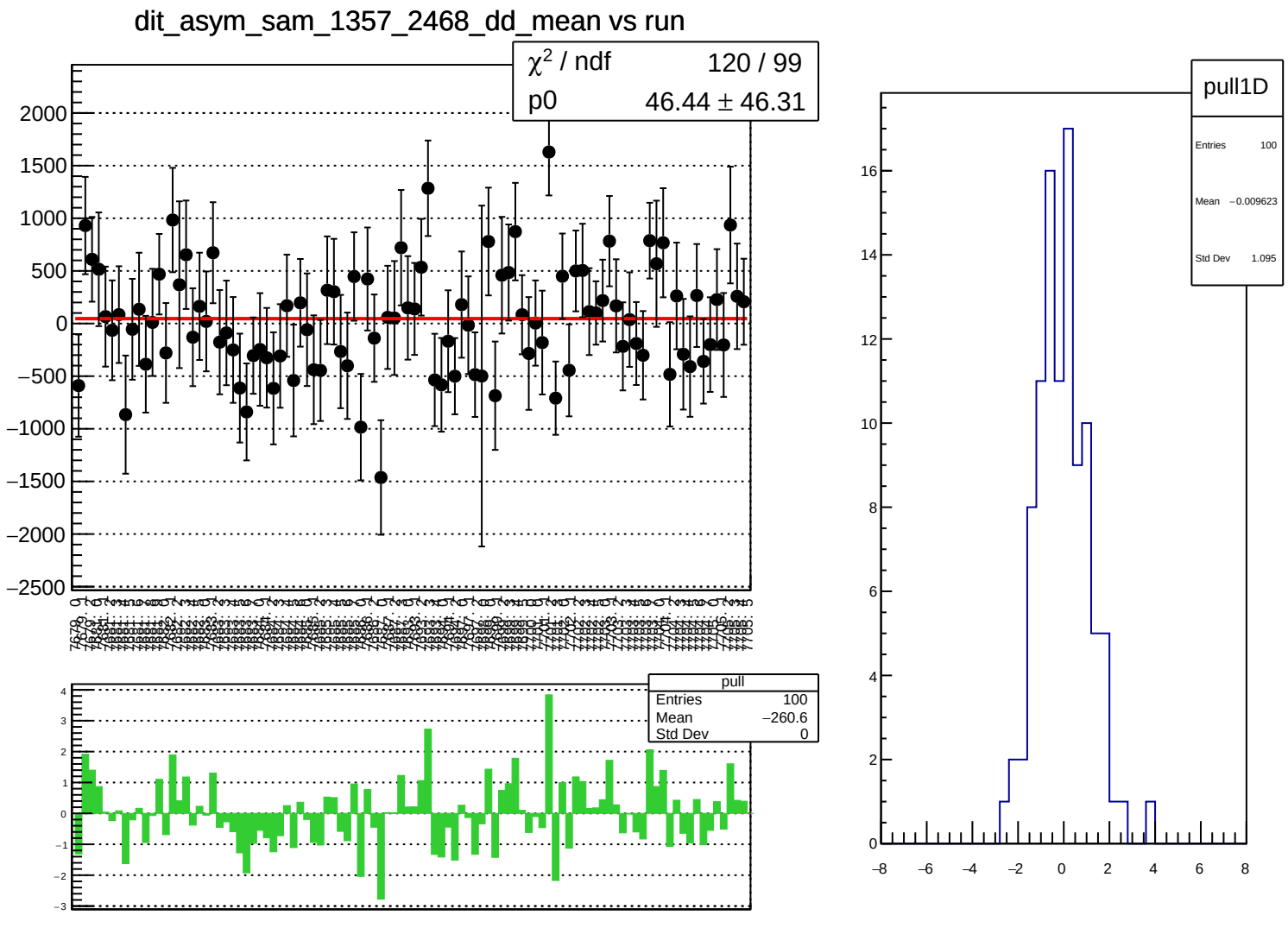

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 123.8 / 99
p0 32.11 ± 38
pull
Entries 100
Mean −3.494e+05
Std Dev 0
pull1D
Entries 100
Mean −3.993e−06
Std Dev 1.113

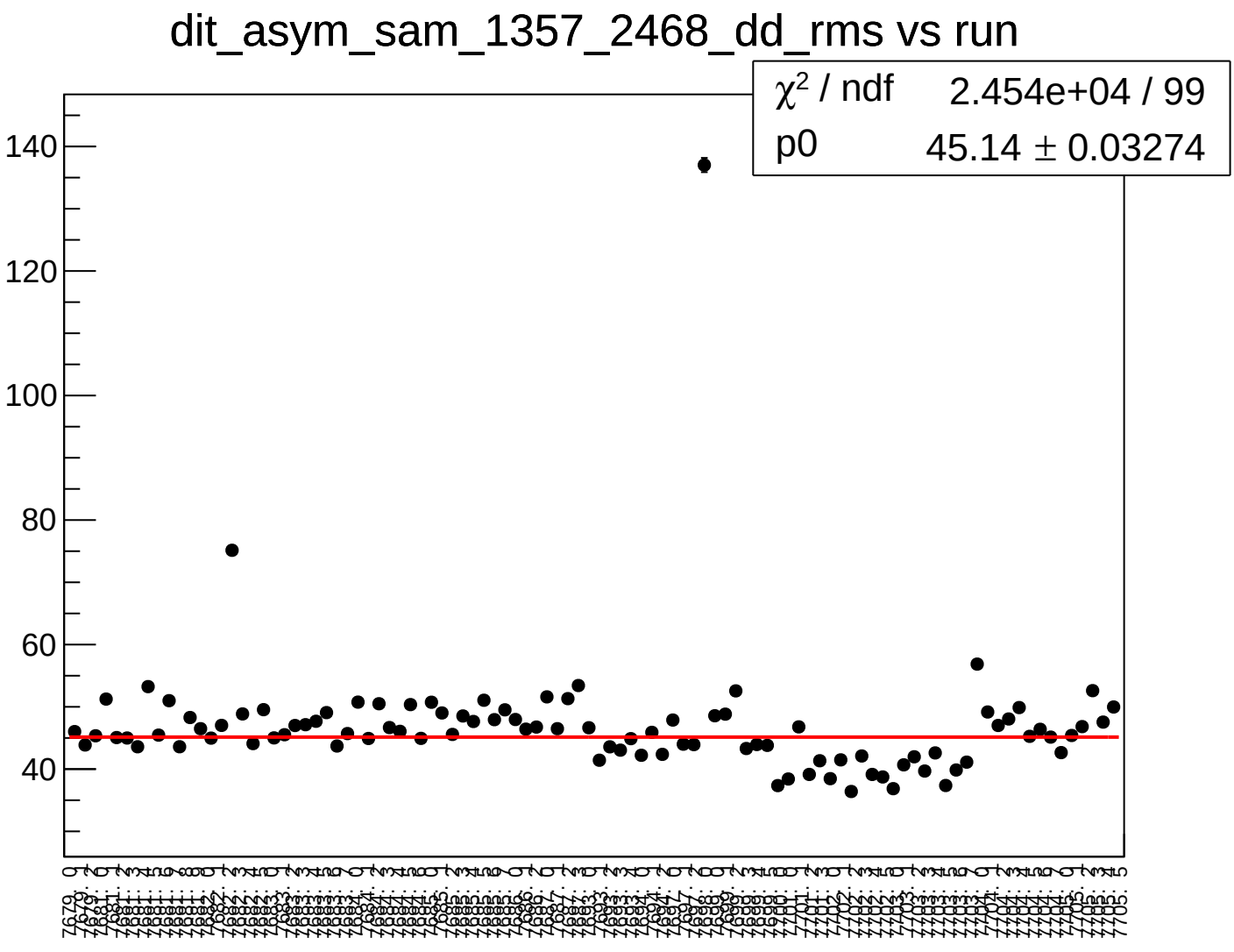

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.816e+04 / 99
p0 37.1 ± 0.02687
90
80
70
60
50
40
30

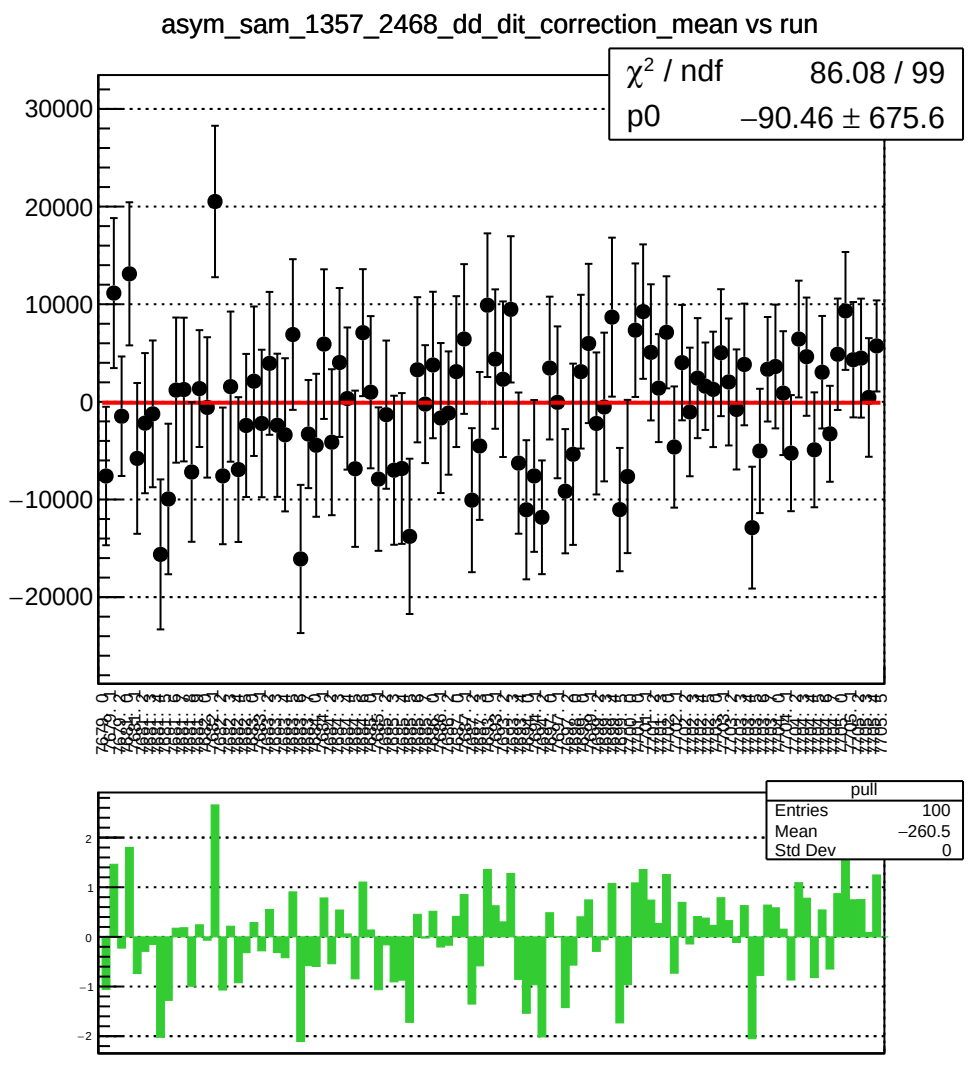

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 85.89 / 99
p0 −74.63 ± 656.8
30000
20000
10000
0
−10000
−20000
pull
Entries 100
Mean −221.2
Std Dev 0
2
1
0
−1
−2

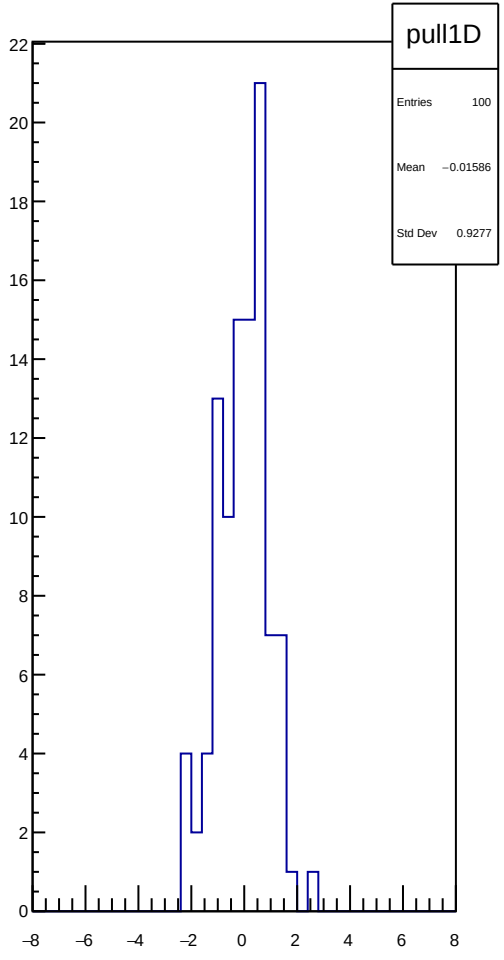

pull1D
Entries 100
Mean −0.01832
Std Dev 0.9266
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

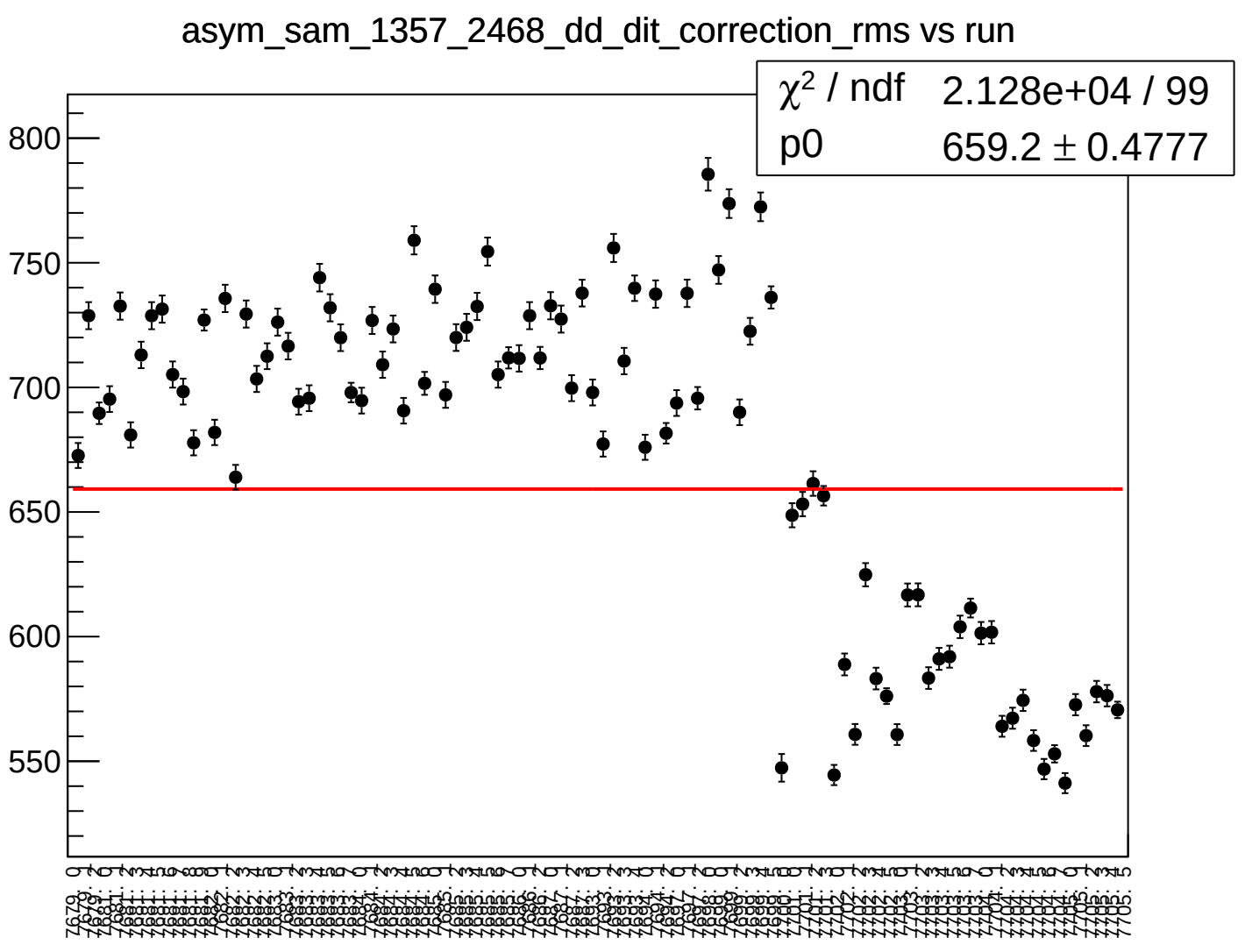

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.398e+04 / 99
p0 640.4 ± 0.4644
800
750
700
650
600
550
500

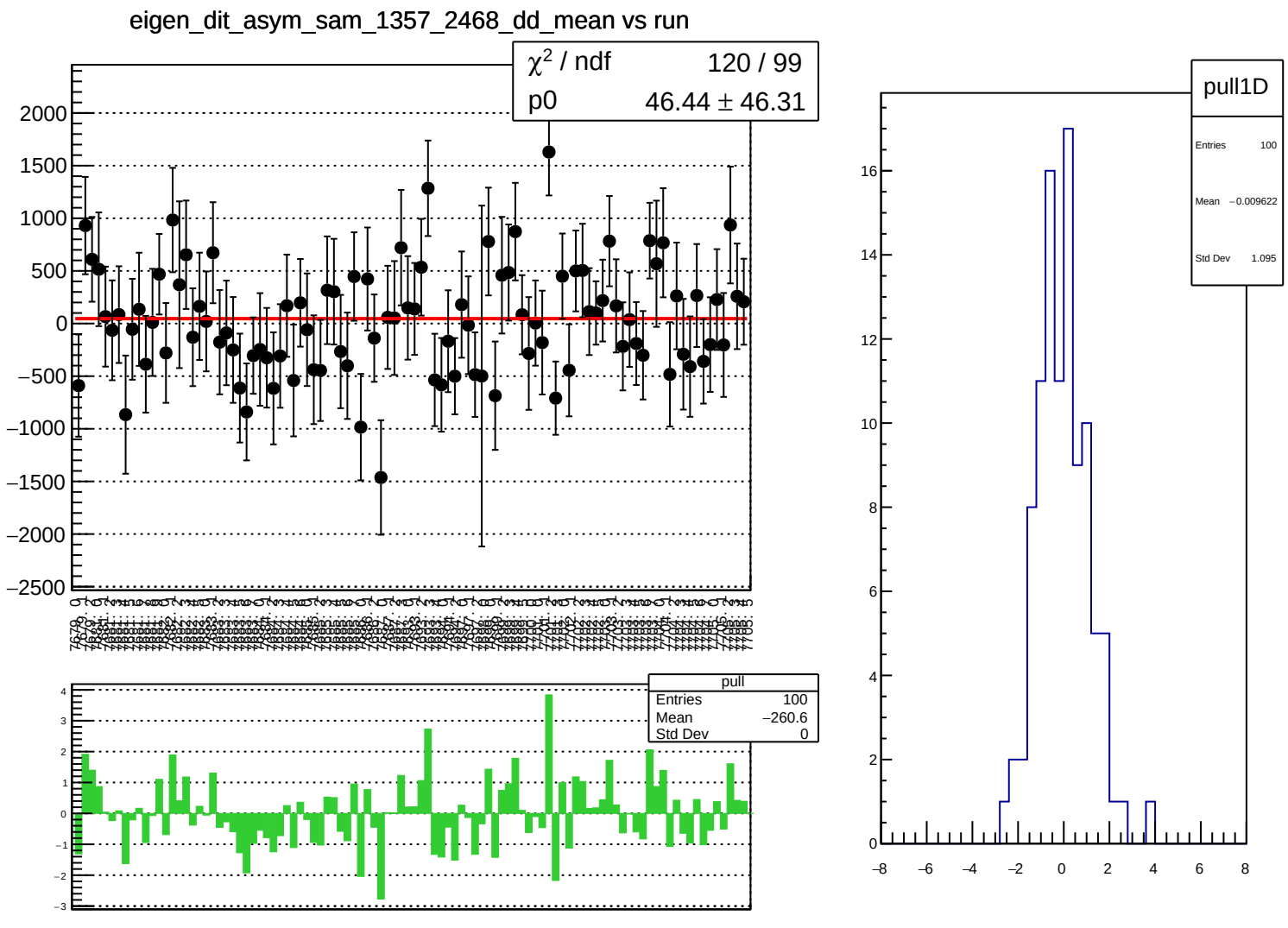

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 120 / 99
p0 46.44 ± 46.31
pull
Entries 100
Mean −260.6
Std Dev 0
pull1D
Entries 100
Mean −0.009623
Std Dev 1.095

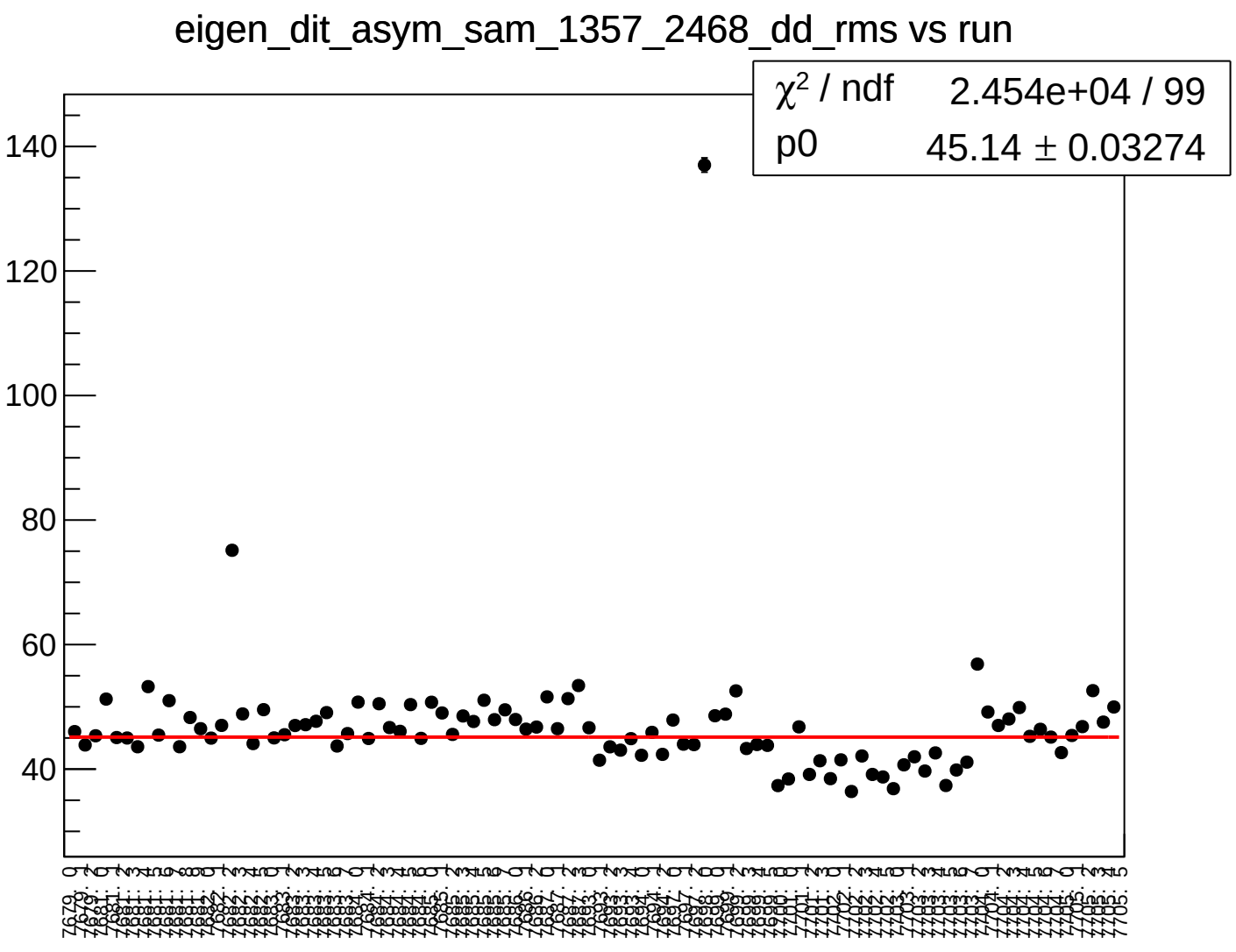

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.454e+04 / 99
p0 45.14 ± 0.03274
140
120
100
80
60
40

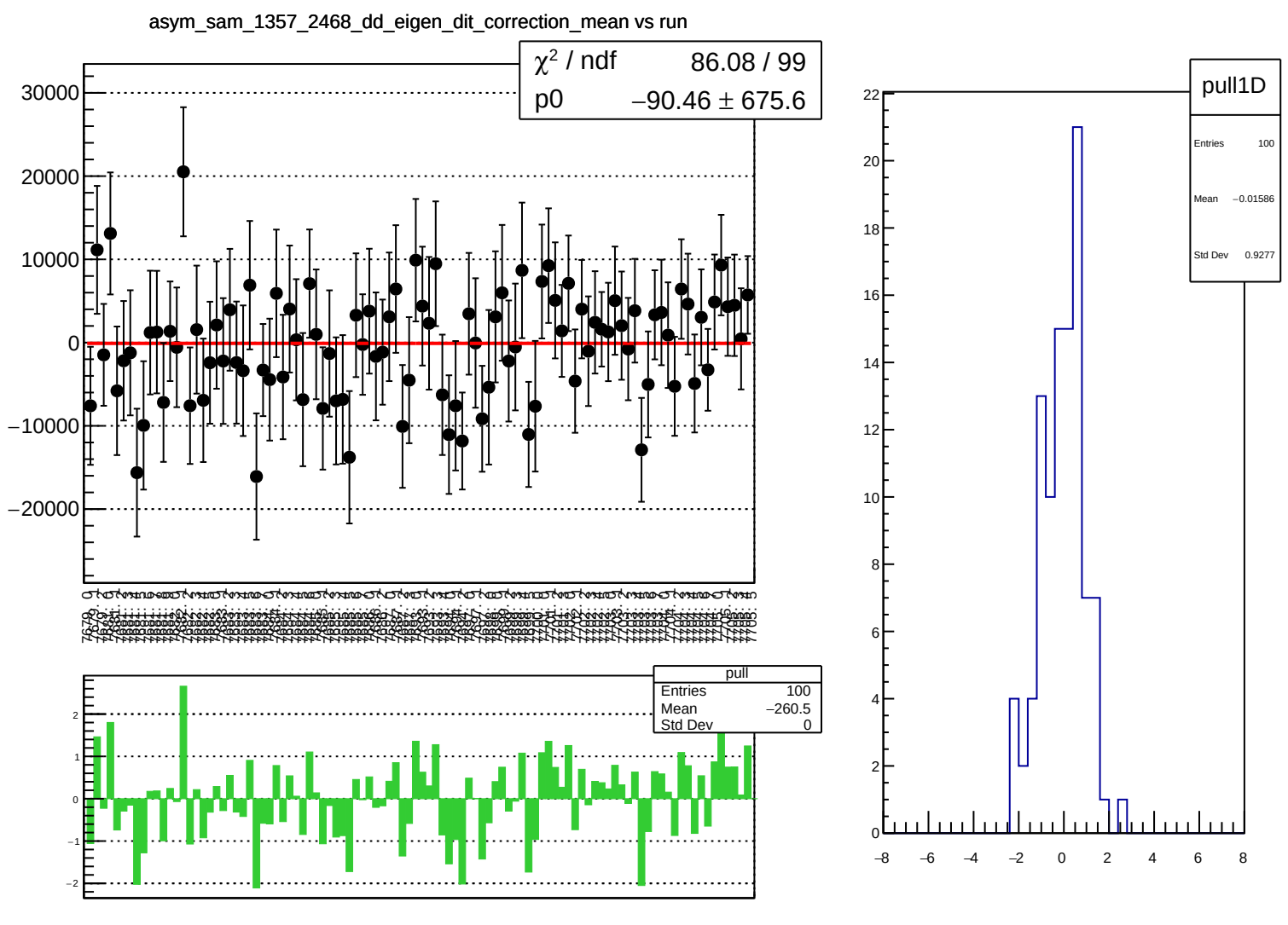

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 86.08 / 99
p0 −90.46 ± 675.6
30000
20000
10000
0
−10000
−20000
pull
Entries 100
Mean −260.5
Std Dev 0
2
1
0
−1
−2

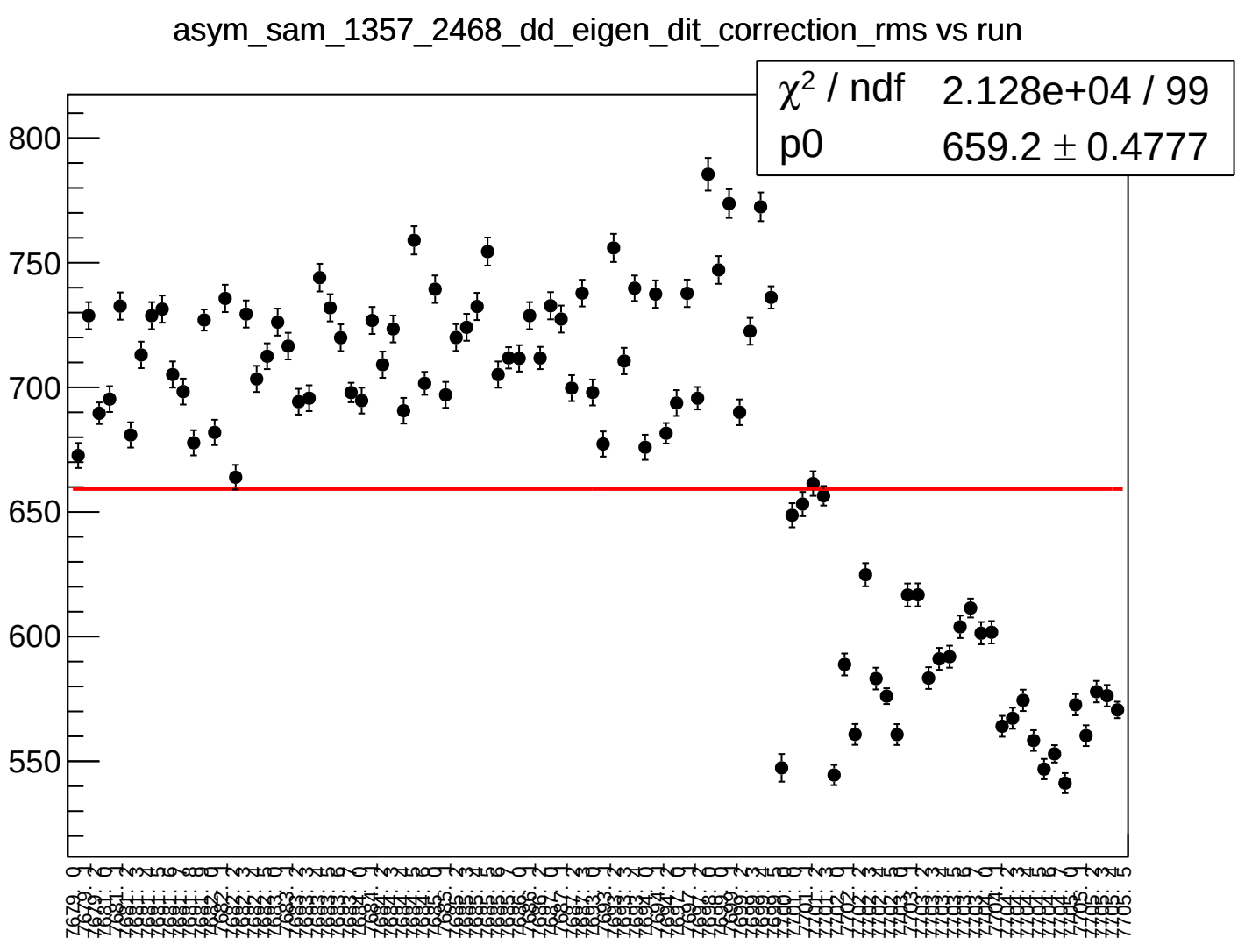

pull1D
Entries 100
Mean −0.01586
Std Dev 0.9277
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

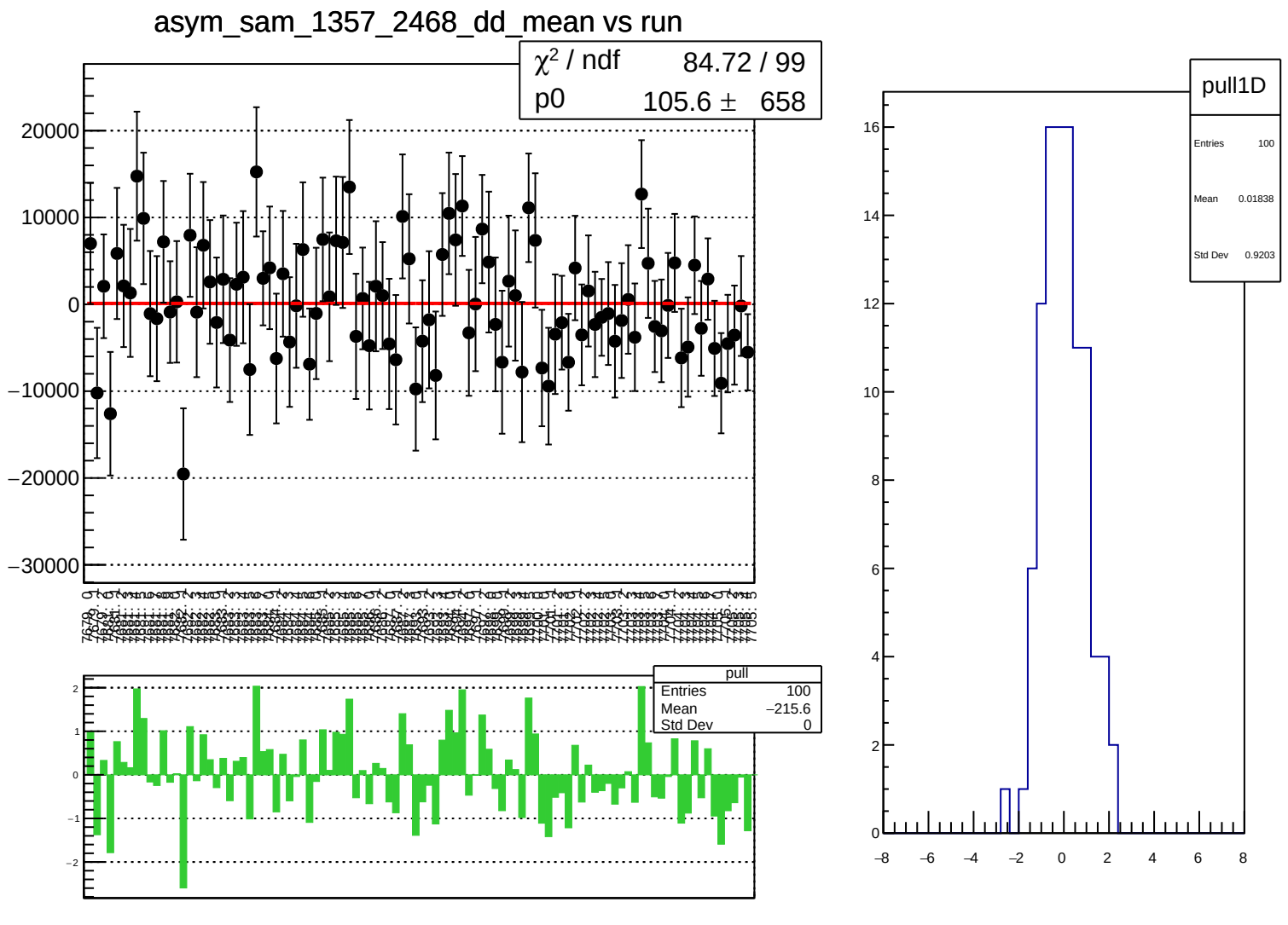

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ^2 / ndf 2.128e+04 / 99
p0 659.2 ± 0.4777
800
750
700
650
600
550

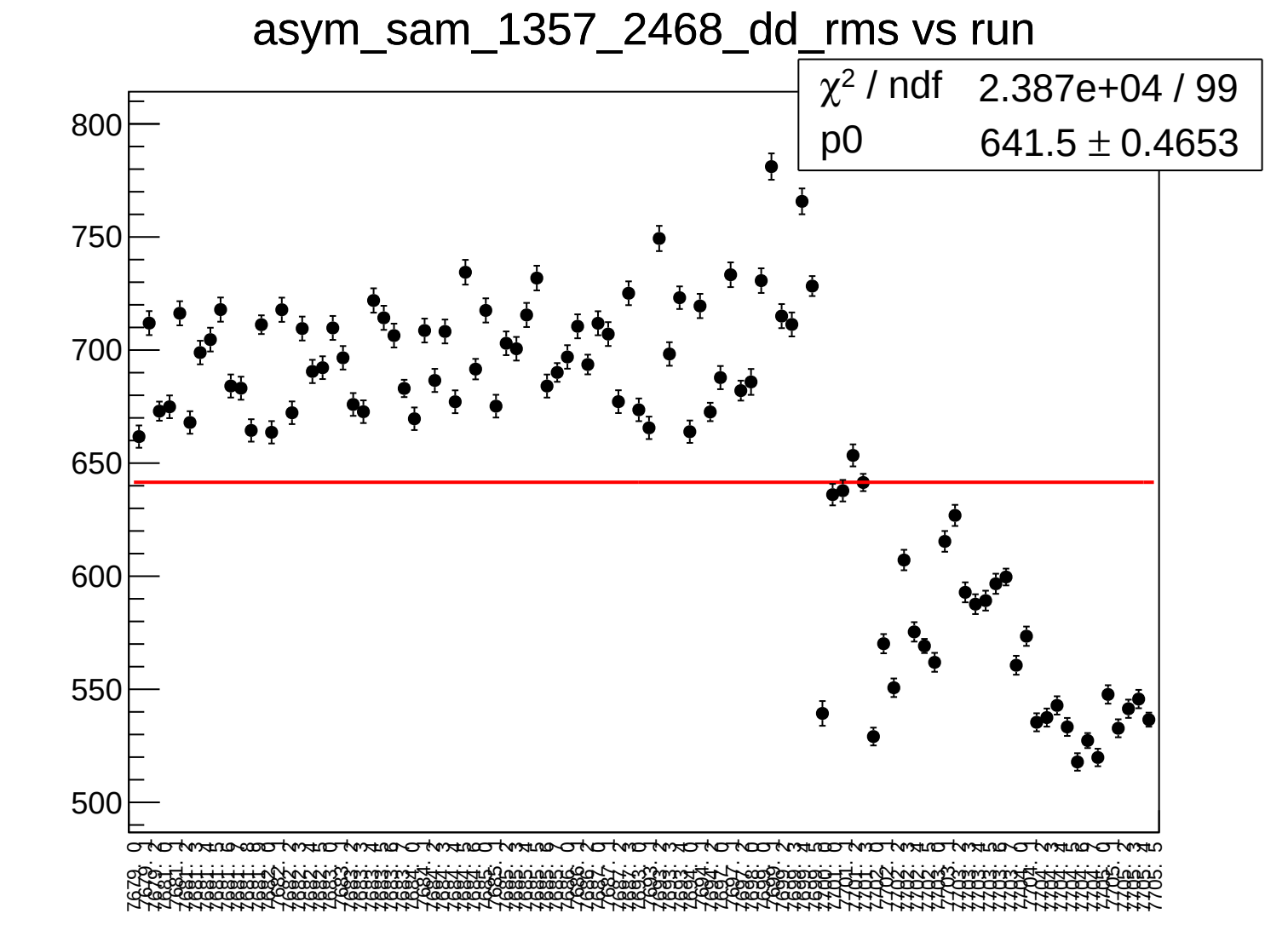

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 120 / 99
p0 46.44 ± 46.31
pull
Entries 100
Mean −260.6
Std Dev 0
pull1D
Entries 100
Mean −0.009622
Std Dev 1.095

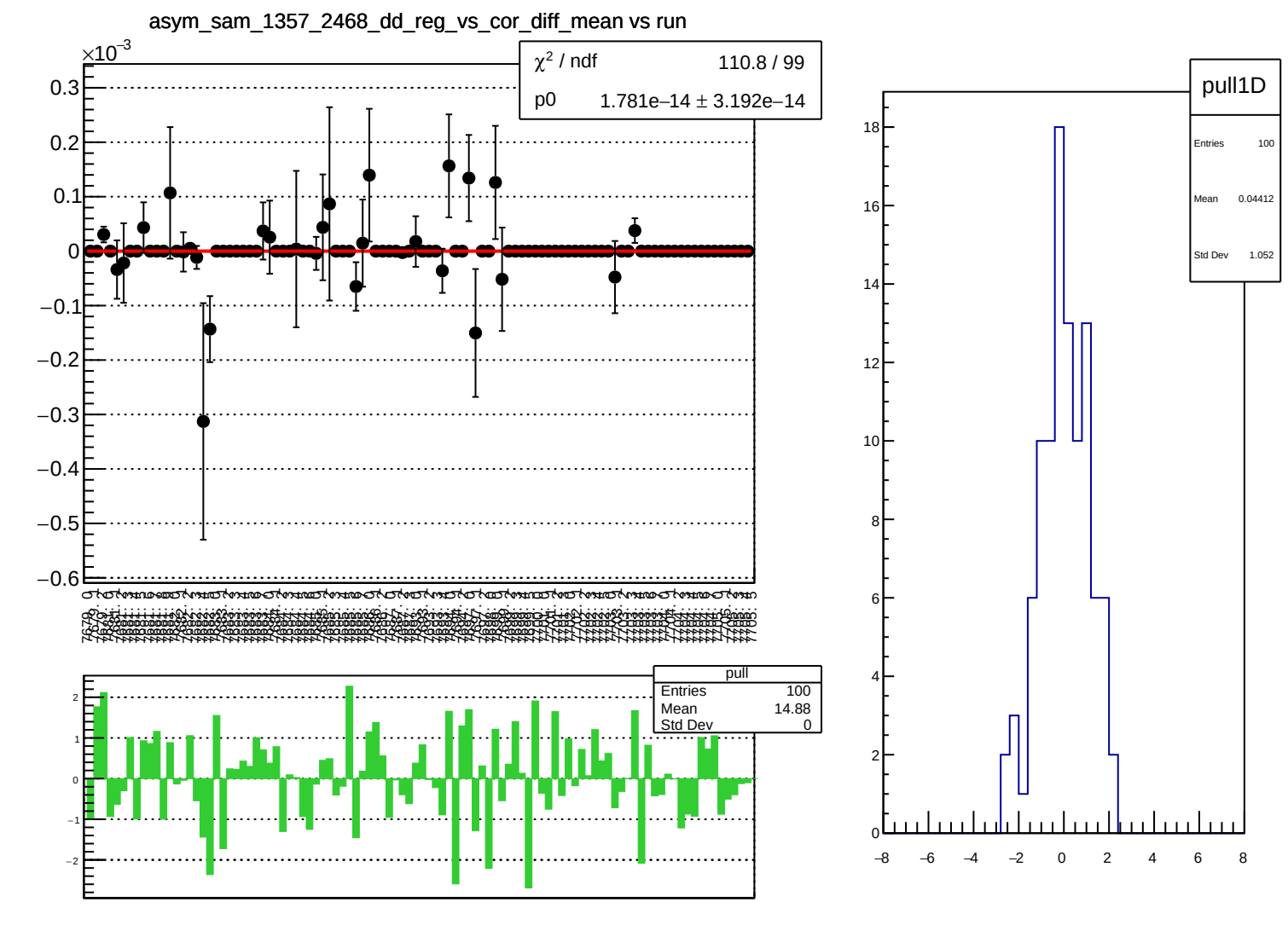

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.454e+04 / 99
p0 45.14 ± 0.03274
140
120
100
80
60
40

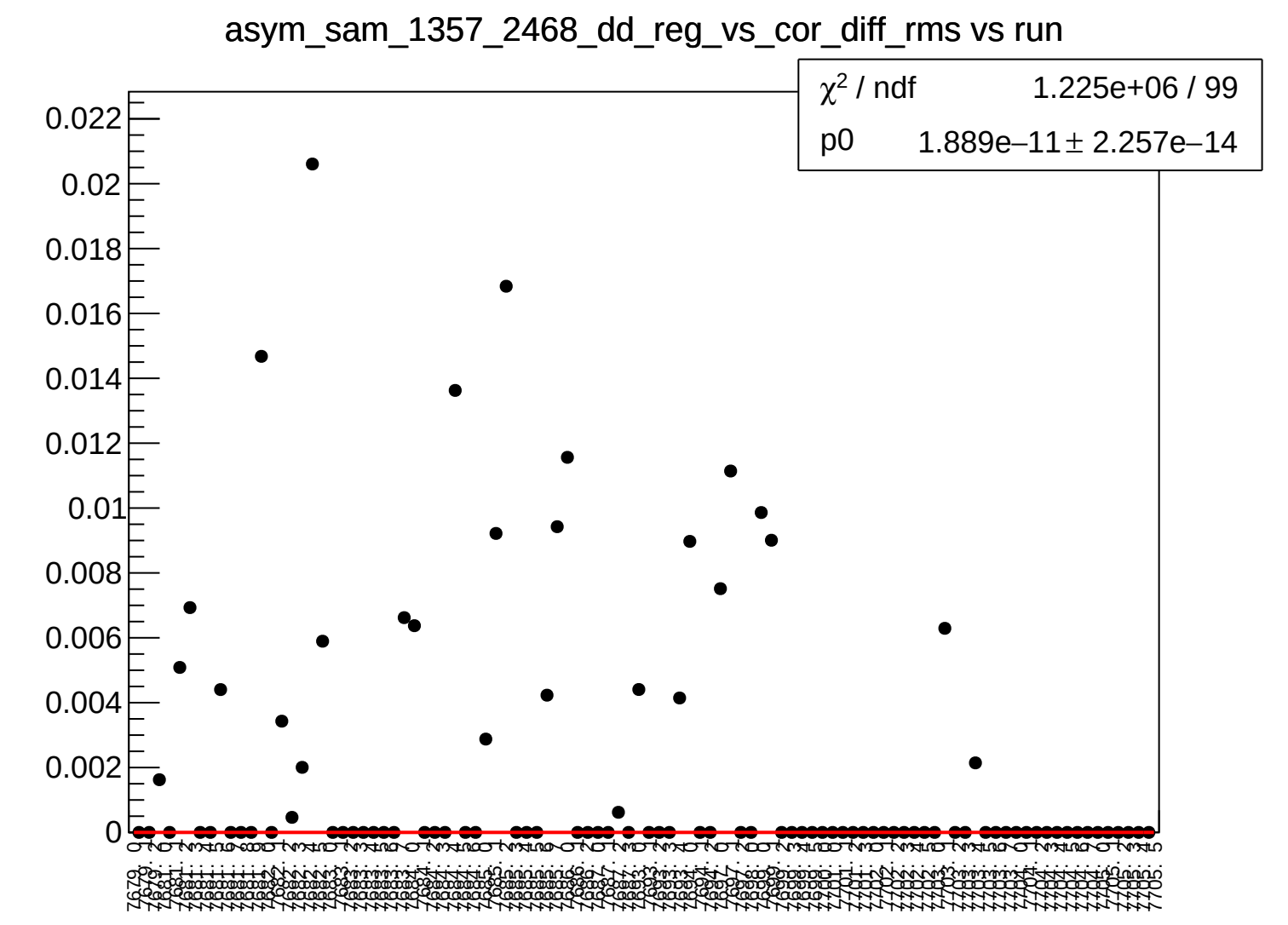

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 86.08 / 99
p0 −90.46 ± 675.6
30000
20000
10000
0
−10000
−20000
pull
Entries 100
Mean −260.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.01586
Std Dev 0.9277
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

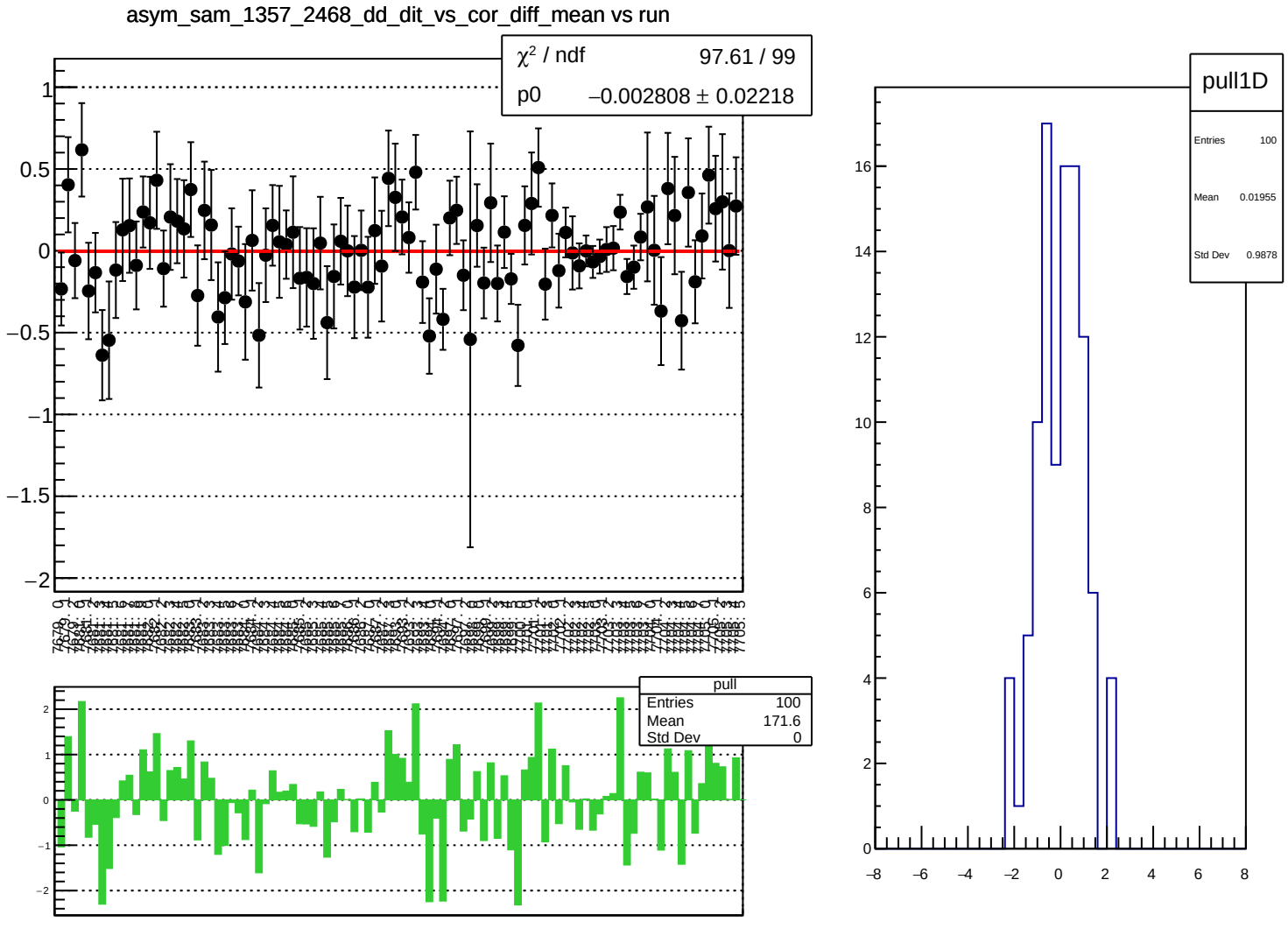

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.128e+04 / 99
p0 659.2 ± 0.4777
800
750
700
650
600
550

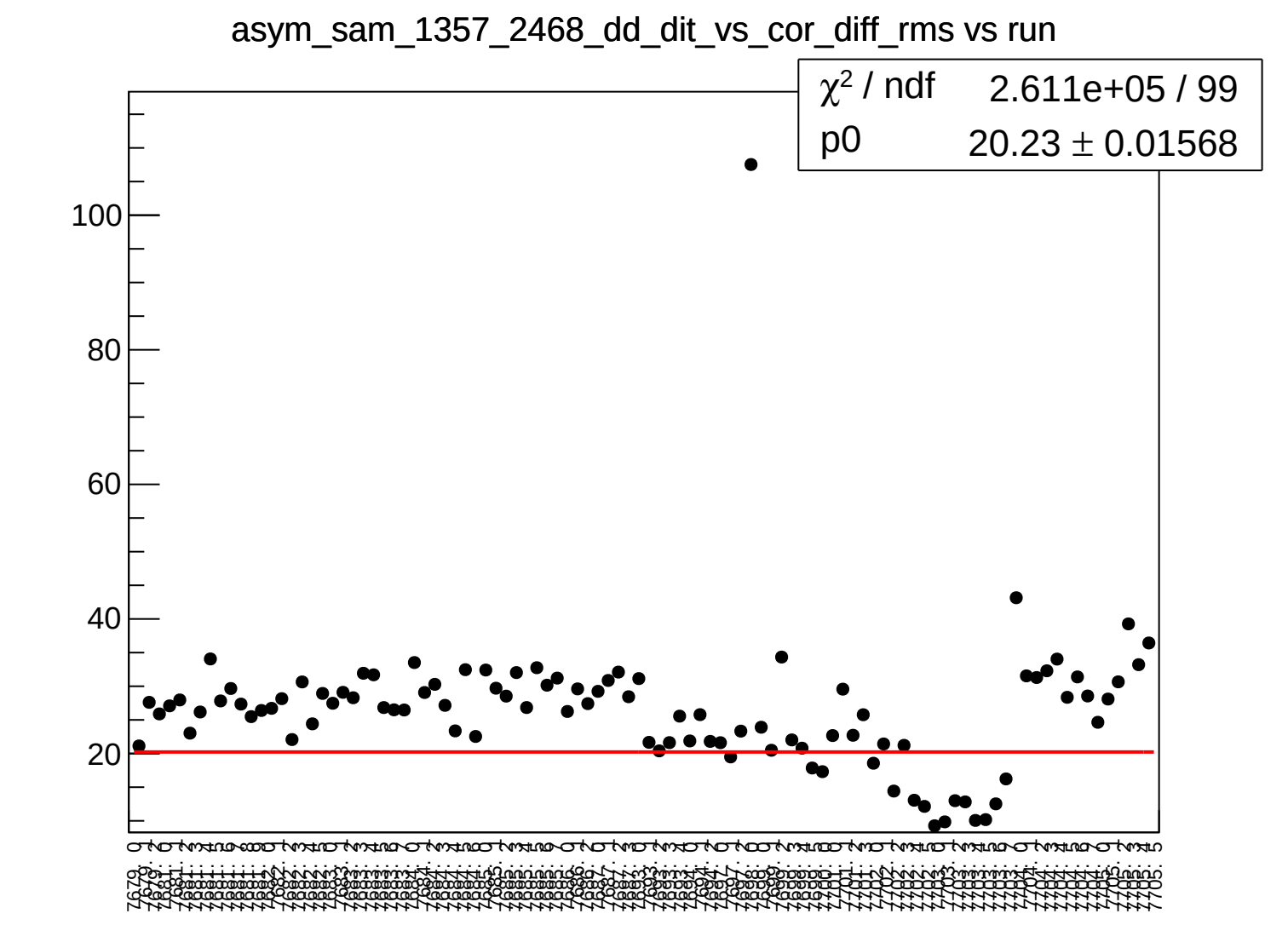

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 84.72 / 99
p0 105.6 ± 658
20000
10000
0
−10000
−20000
−30000
pull
Entries 100
Mean −215.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.01838
Std Dev 0.9203
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

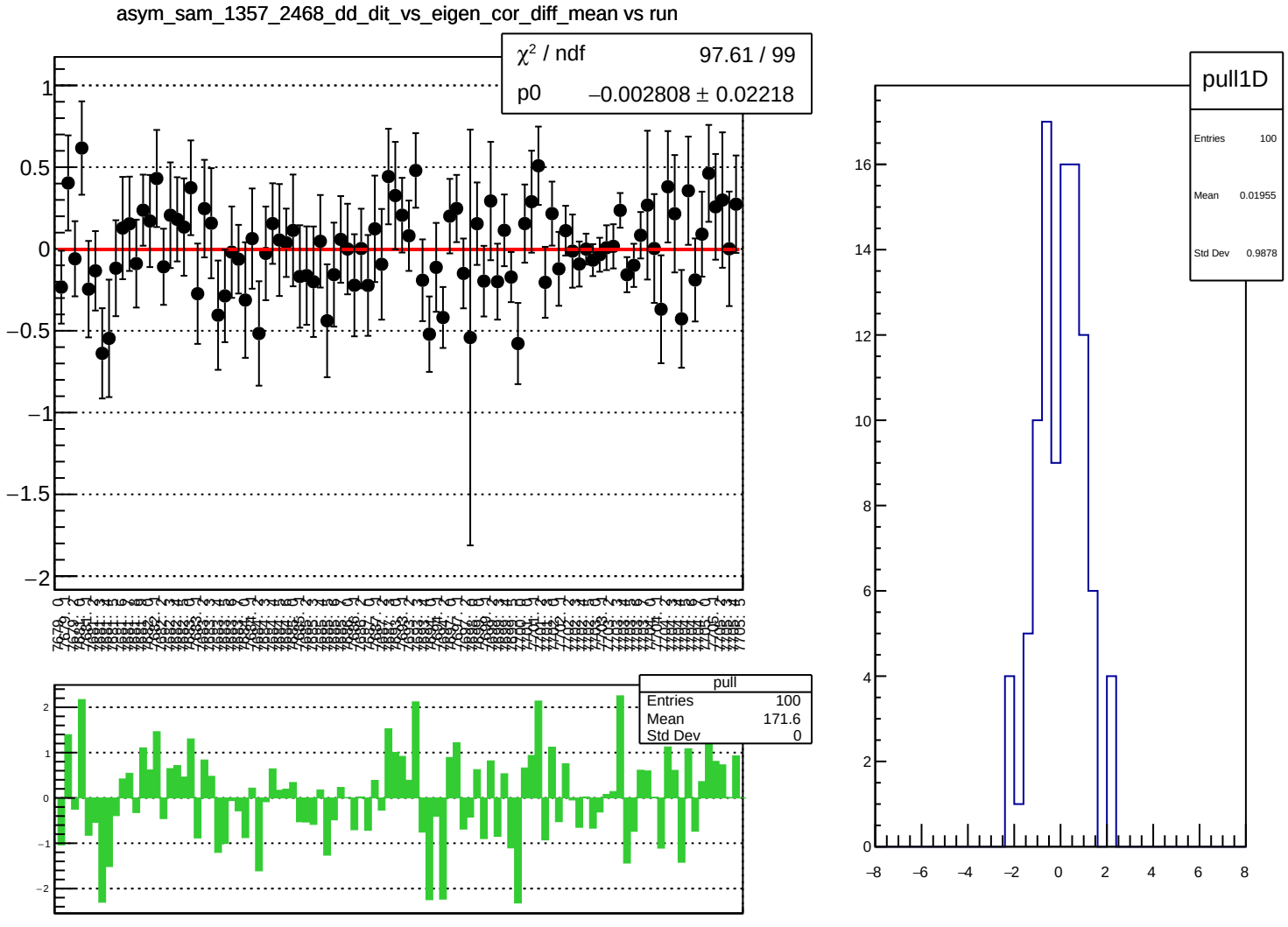

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.387e+04 / 99
p0 641.5 ± 0.4653
800
750
700
650
600
550
500

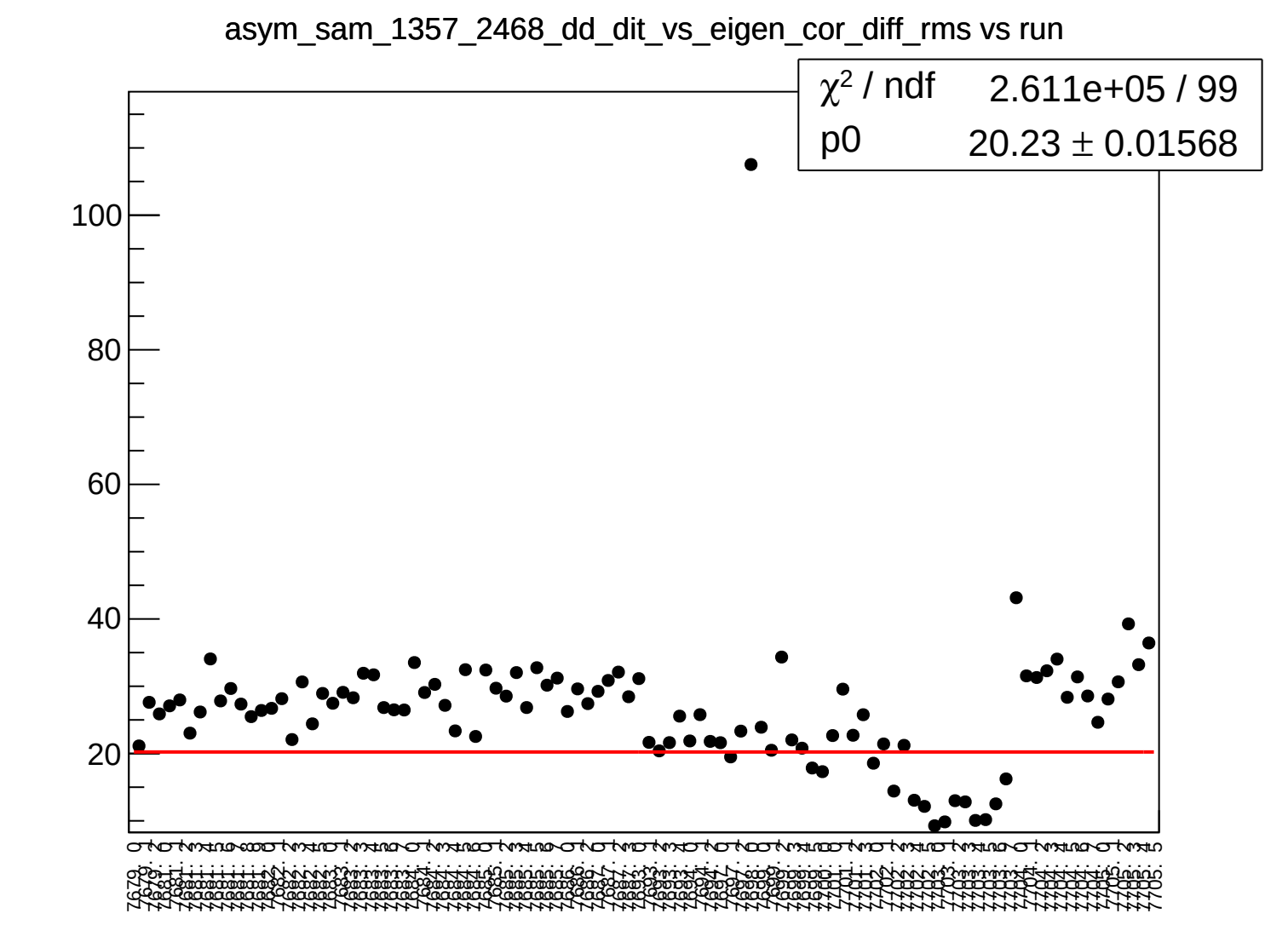

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 110.8 / 99
p0 1.781e−14 ± 3.192e−14
pull
Entries 100
Mean 14.88
Std Dev 0
pull1D
Entries 100
Mean 0.04412
Std Dev 1.052

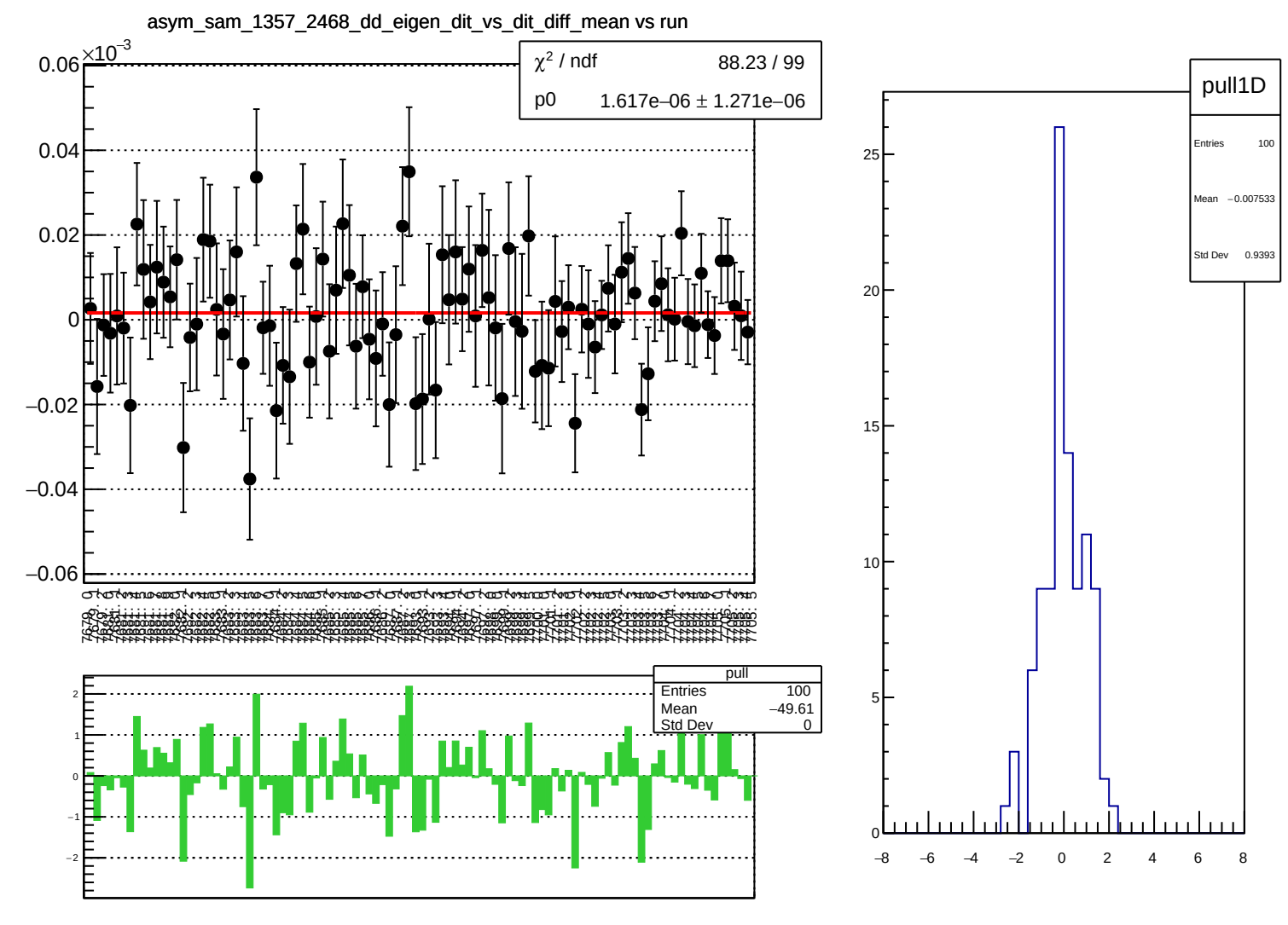

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.225e+06 / 99
p0 1.889e−11 ± 2.257e−14
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

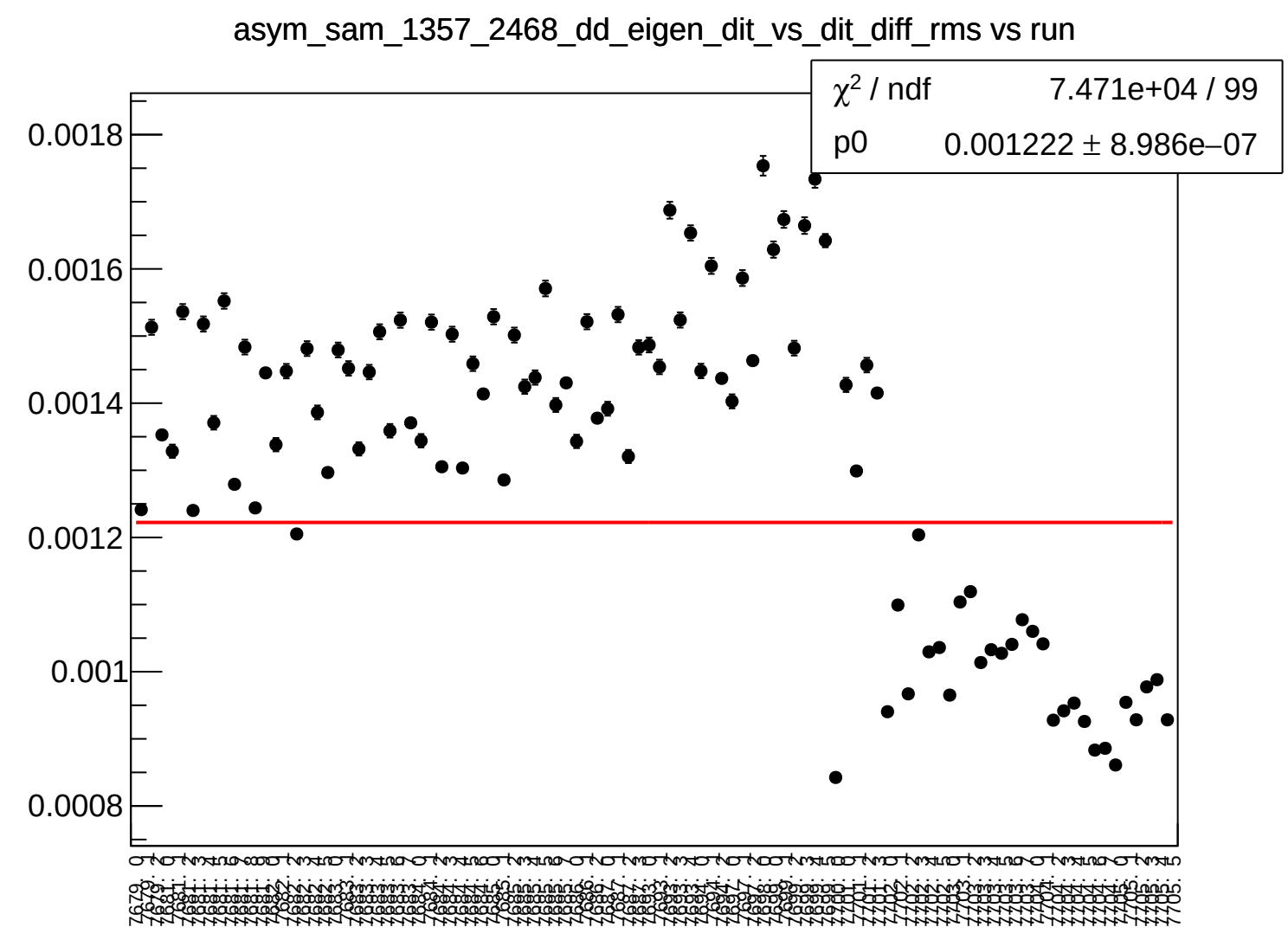

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 97.61 / 99
p0 −0.002808 ± 0.02218
pull
Entries 100
Mean 171.6
Std Dev 0
pull1D
Entries 100
Mean 0.01955
Std Dev 0.9878

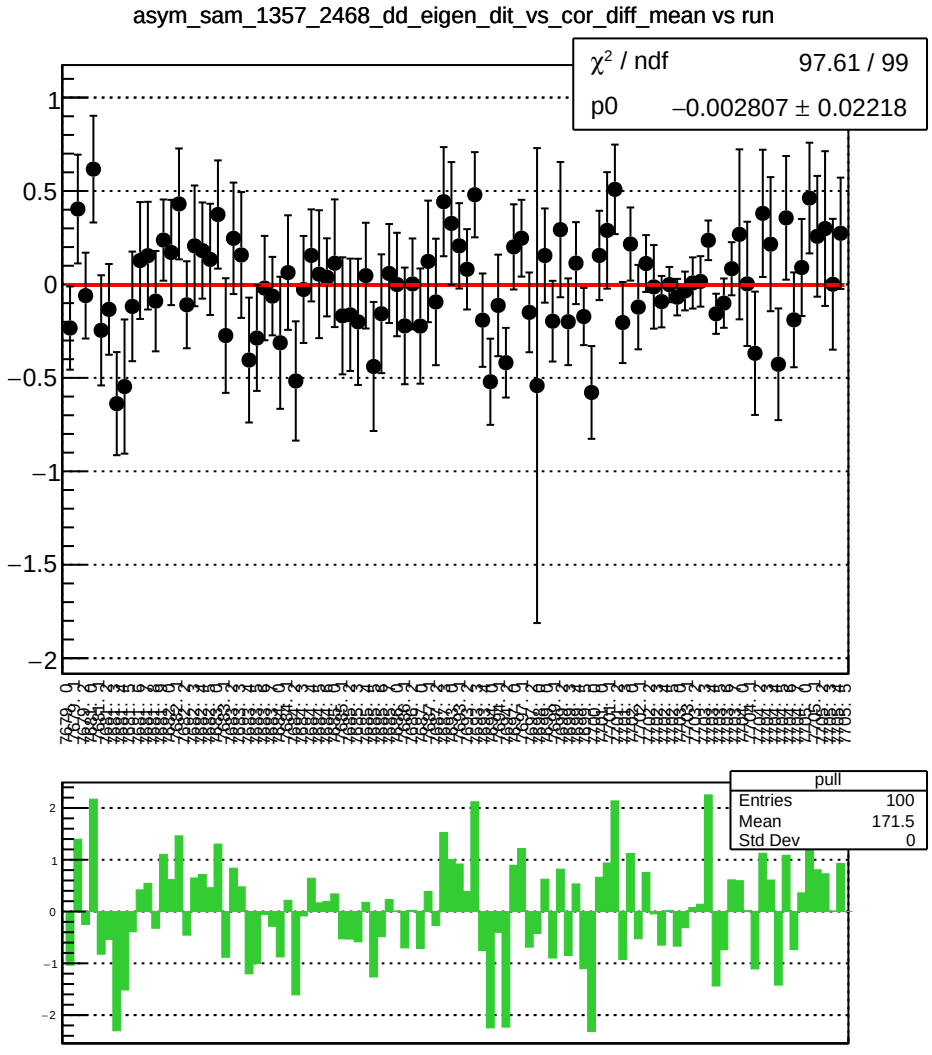

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.611e+05 / 99
p0 20.23 ± 0.01568
100
80
60
40
20

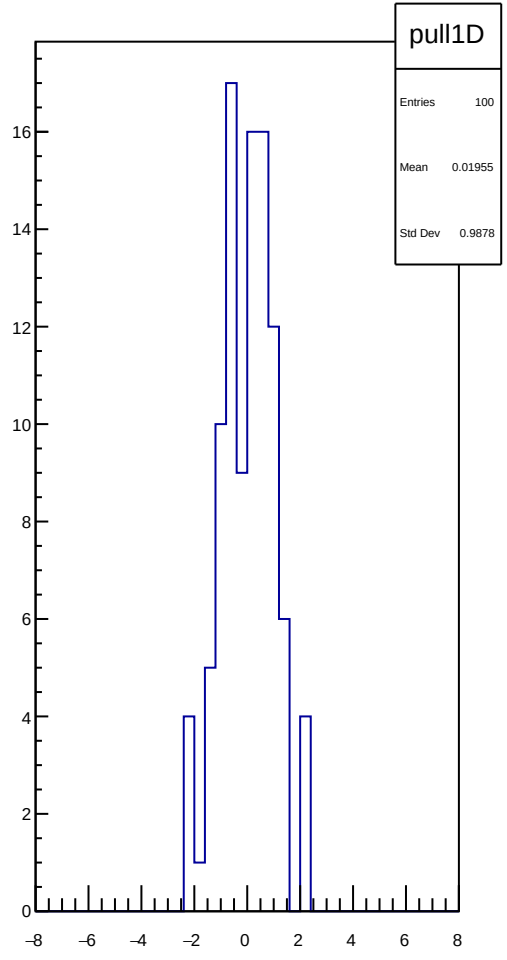

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.61 / 99
p0 −0.002808 ± 0.02218
pull
Entries 100
Mean 171.6
Std Dev 0
pull1D
Entries 100
Mean 0.01955
Std Dev 0.9878

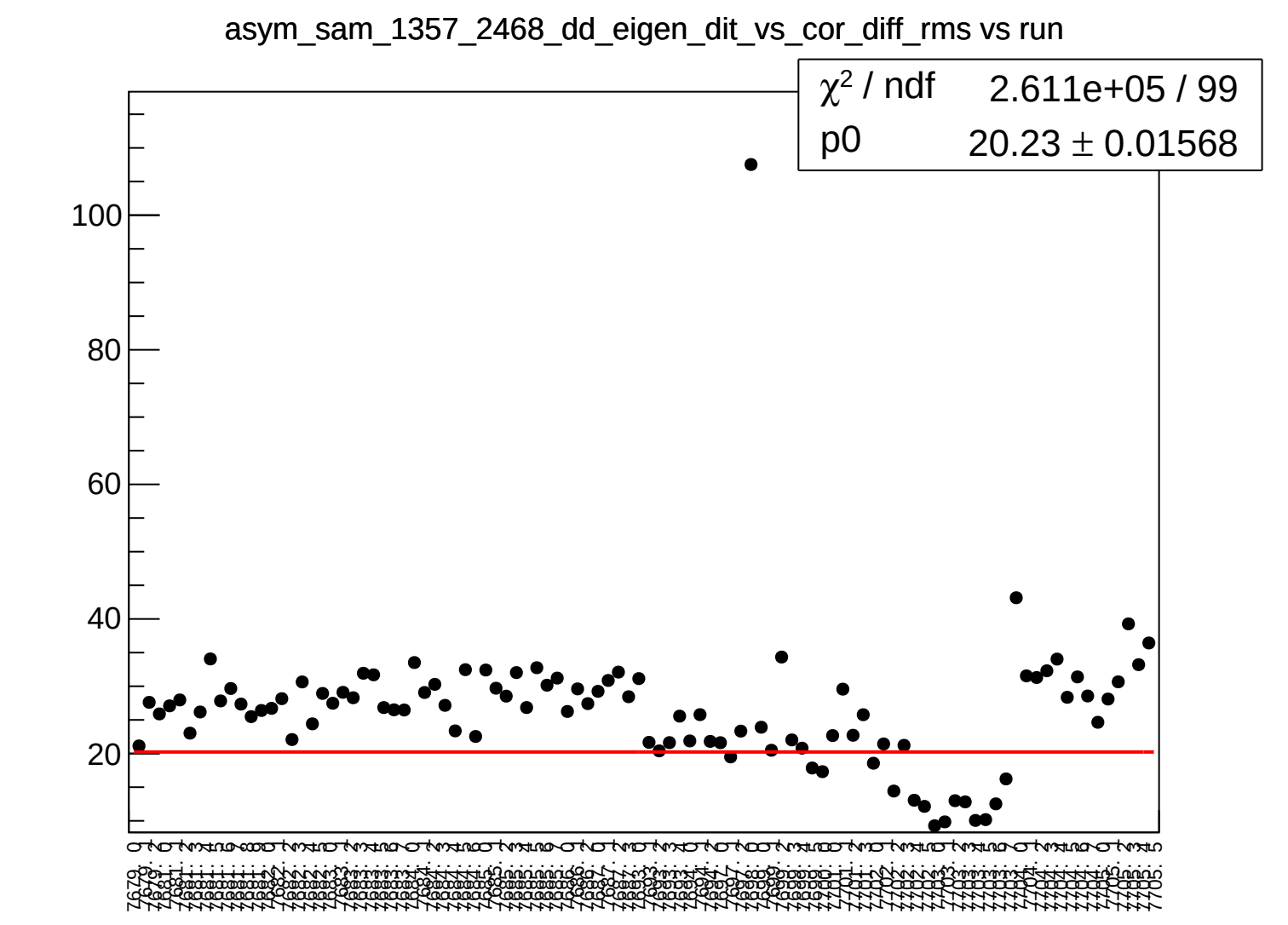

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.611e+05 / 99
p0 20.23 ± 0.01568
100
80
60
40
20

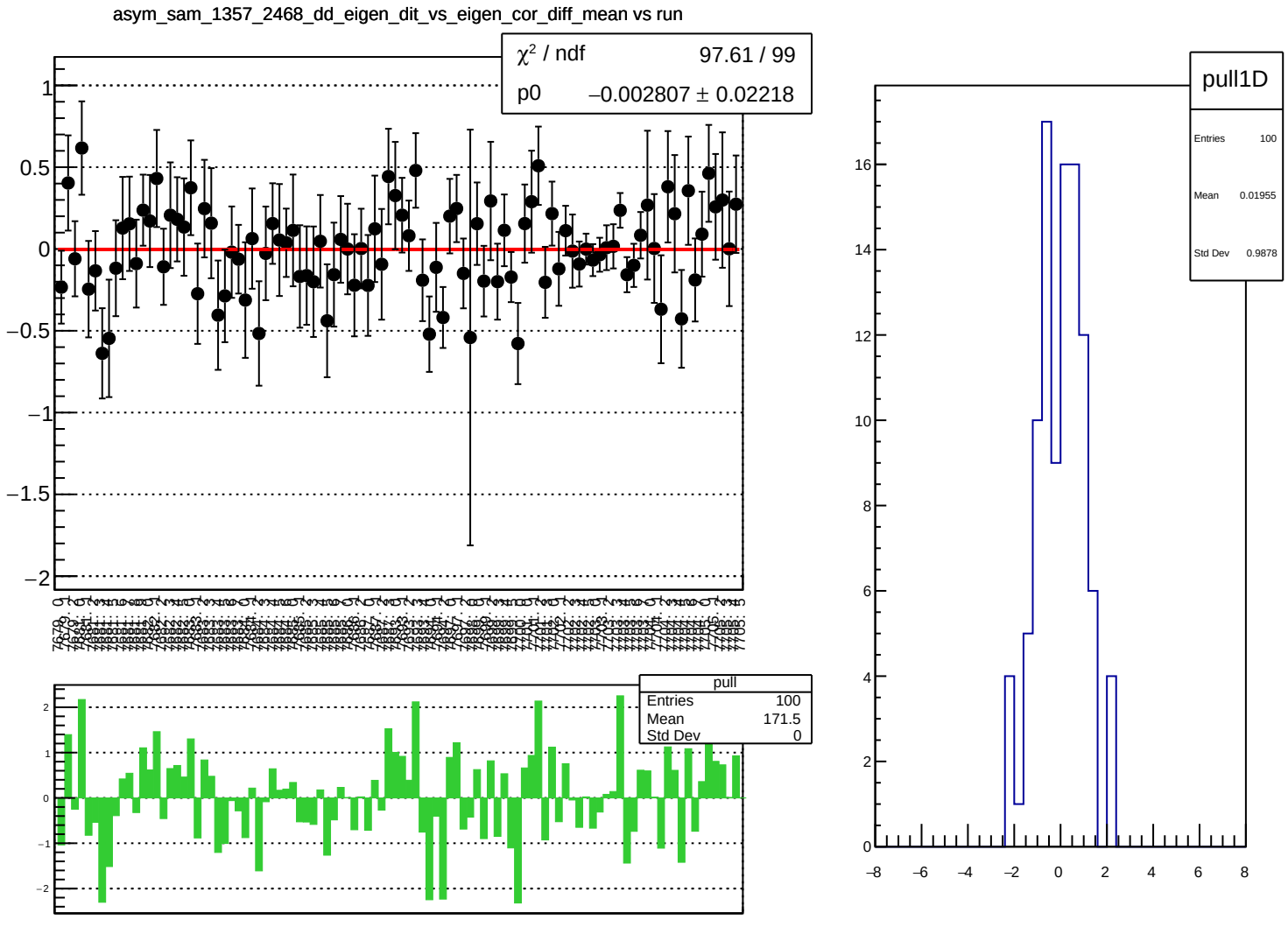

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.23 / 99
p0 1.617e−06 ± 1.271e−06
pull
Entries 100
Mean −49.61
Std Dev 0
pull1D
Entries 100
Mean −0.007533
Std Dev 0.9393

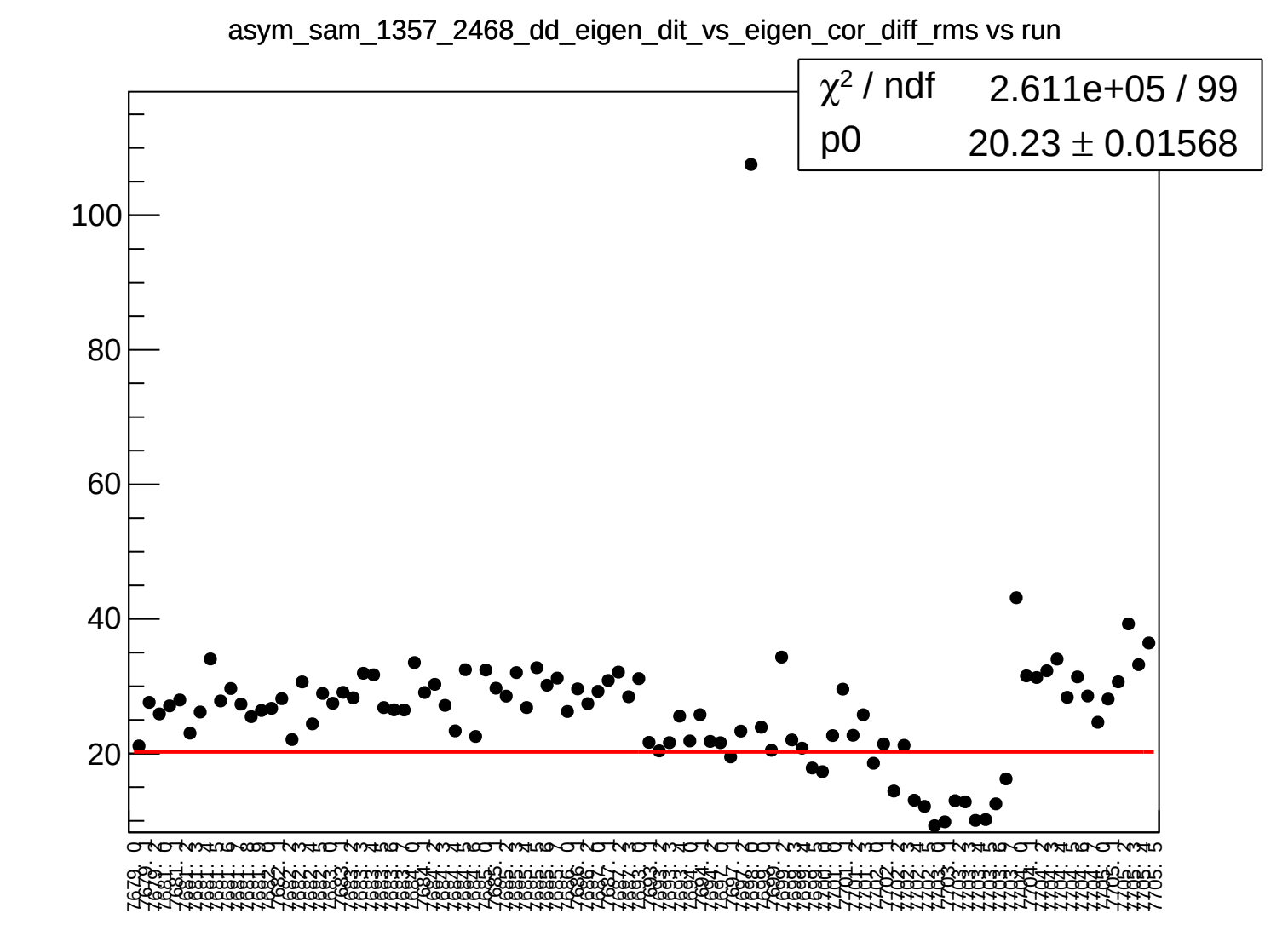

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.471e+04 / 99
p0 0.001222 ± 8.986e−07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008

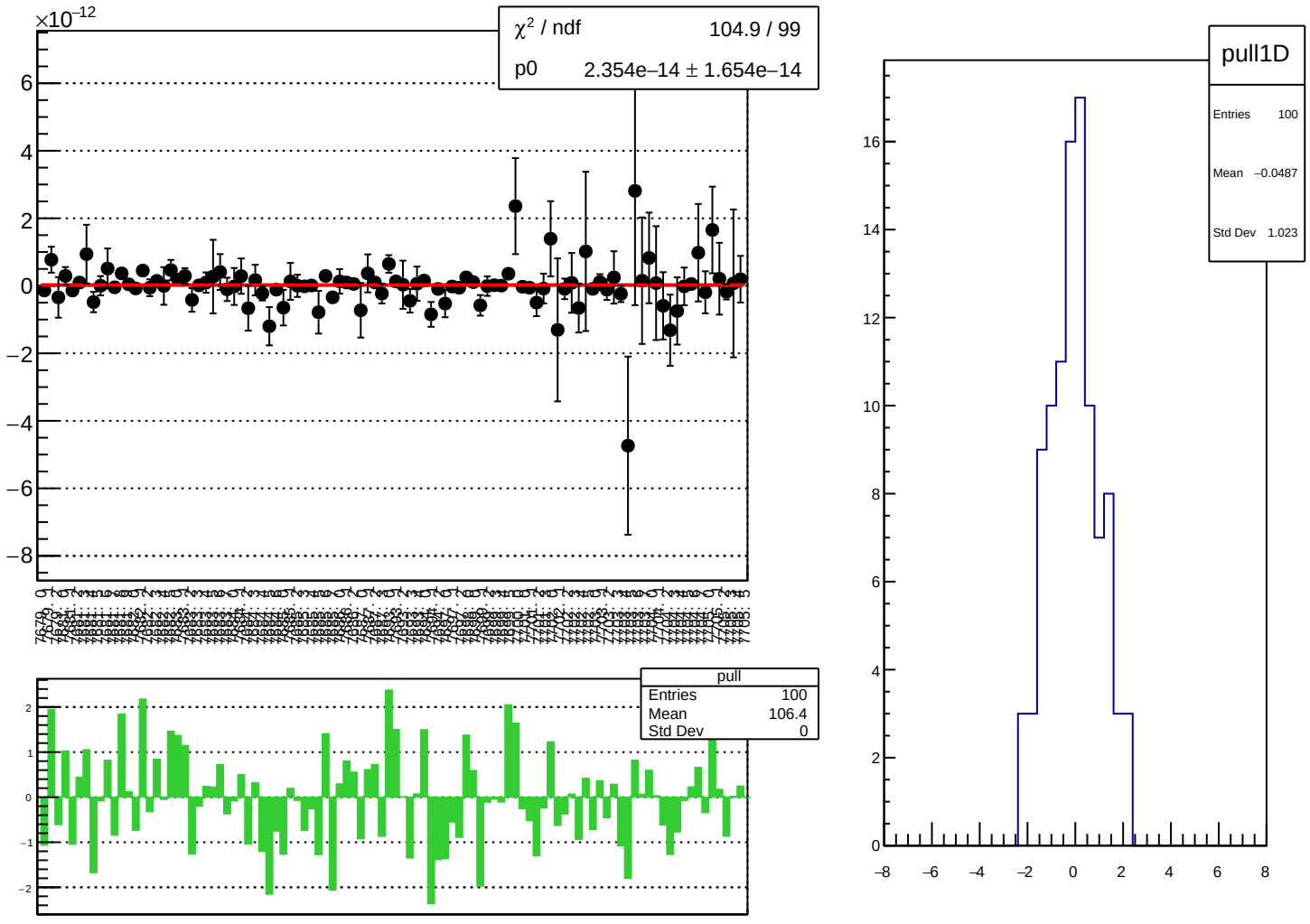

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.61 / 99
p0 −0.002807 ± 0.02218
pull
Entries 100
Mean 171.5
Std Dev 0

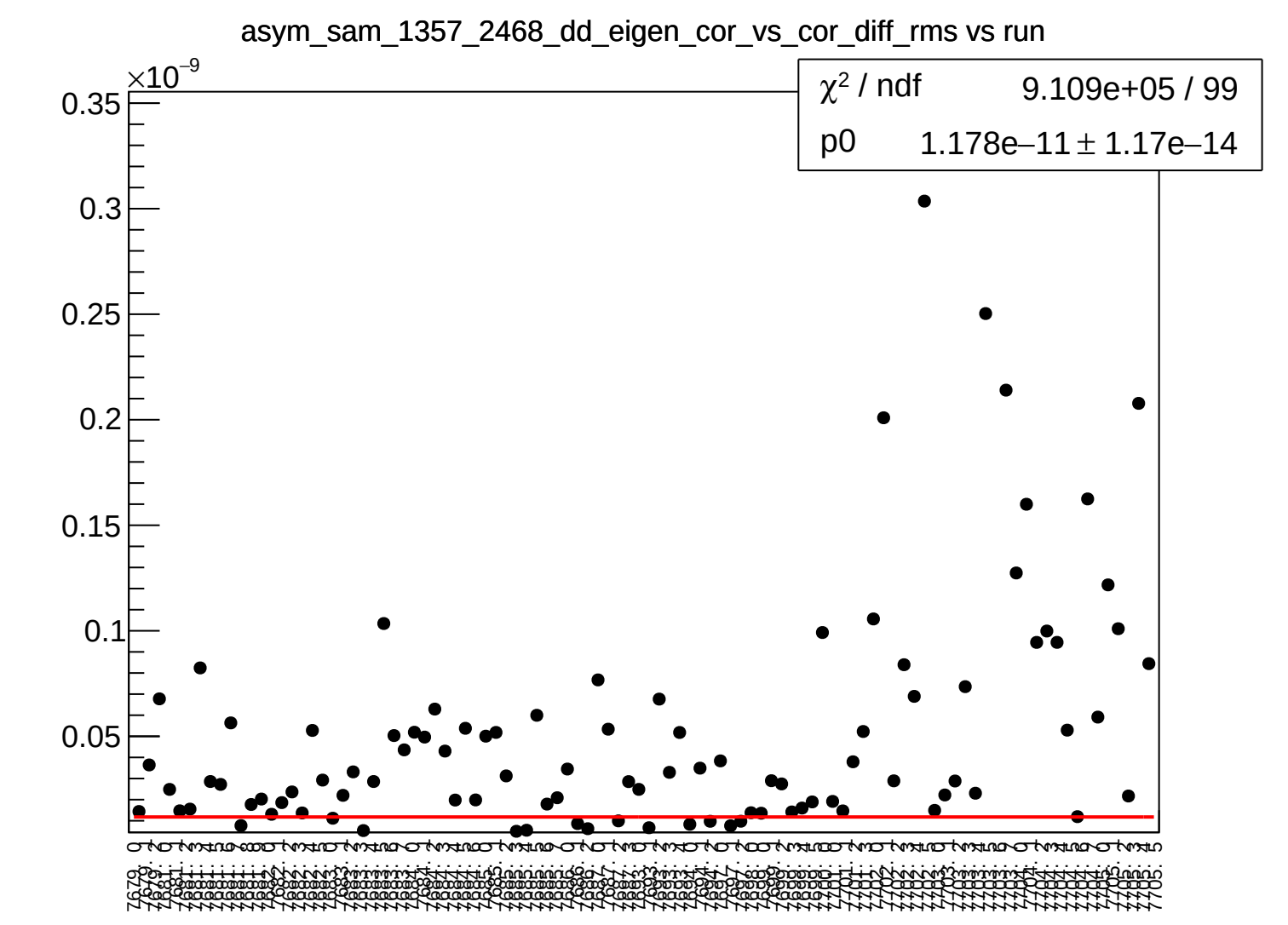

pull1D
Entries 100
Mean 0.01955
Std Dev 0.9878

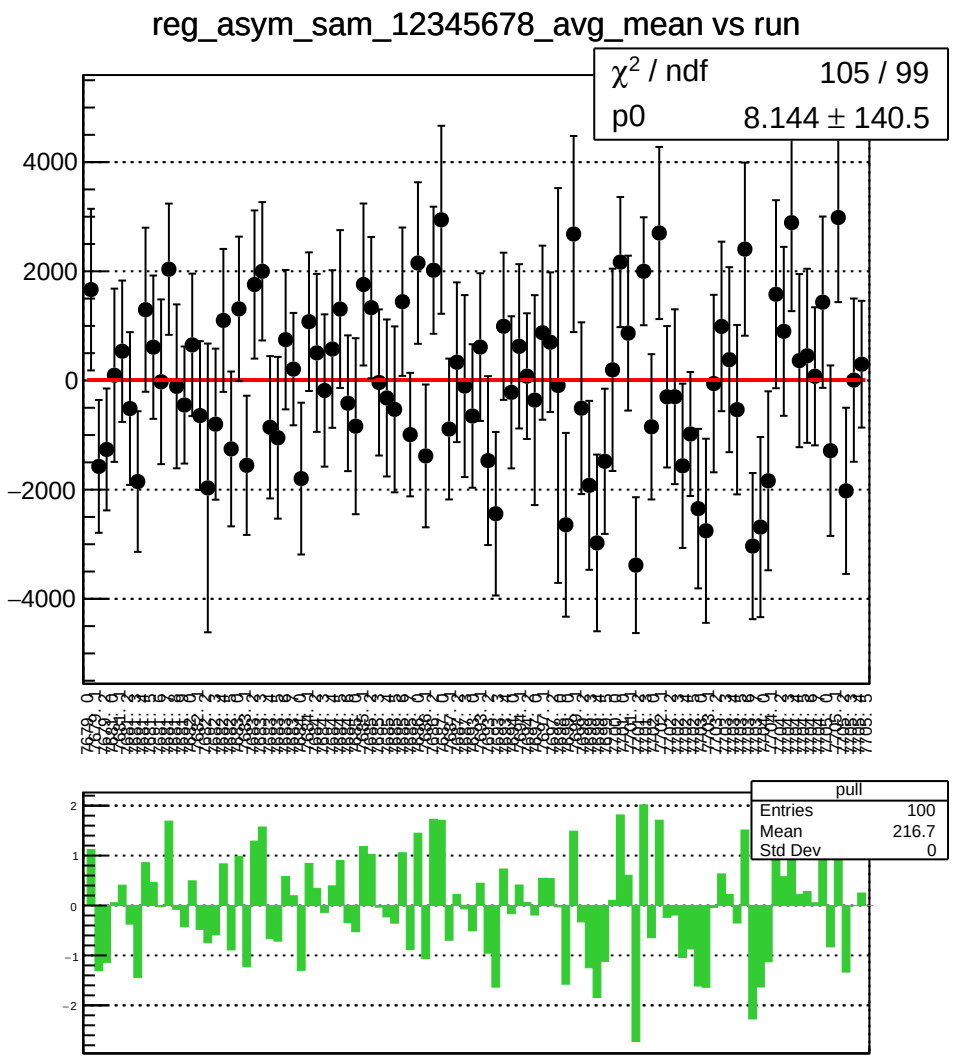

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.611e+05 / 99
p0 20.23 ± 0.01568
100
80
60
40
20

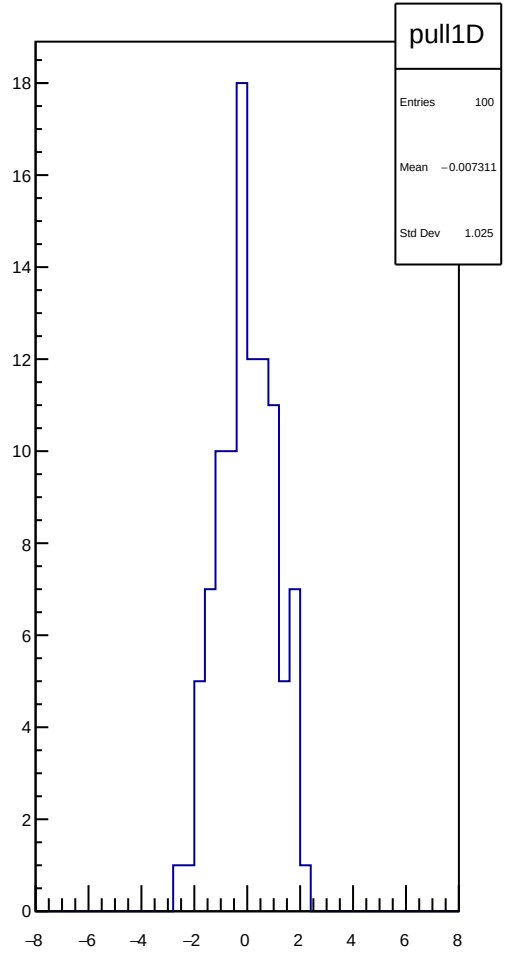

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.61 / 99
p0 −0.002807 ± 0.02218
pull
Entries 100
Mean 171.5
Std Dev 0
pull1D
Entries 100
Mean 0.01955
Std Dev 0.9878

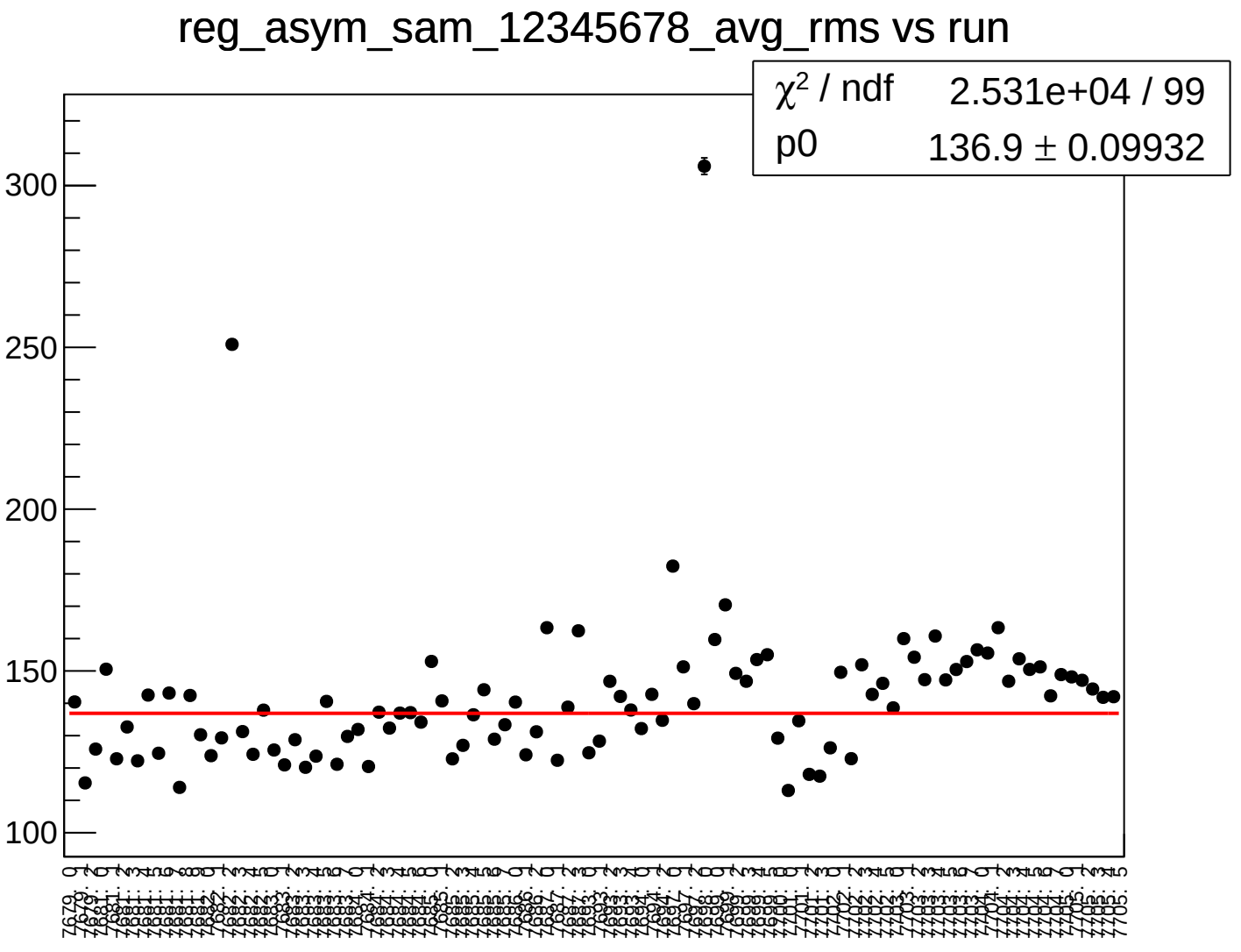

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.611e+05 / 99
p0 20.23 ± 0.01568
100
80
60
40
20

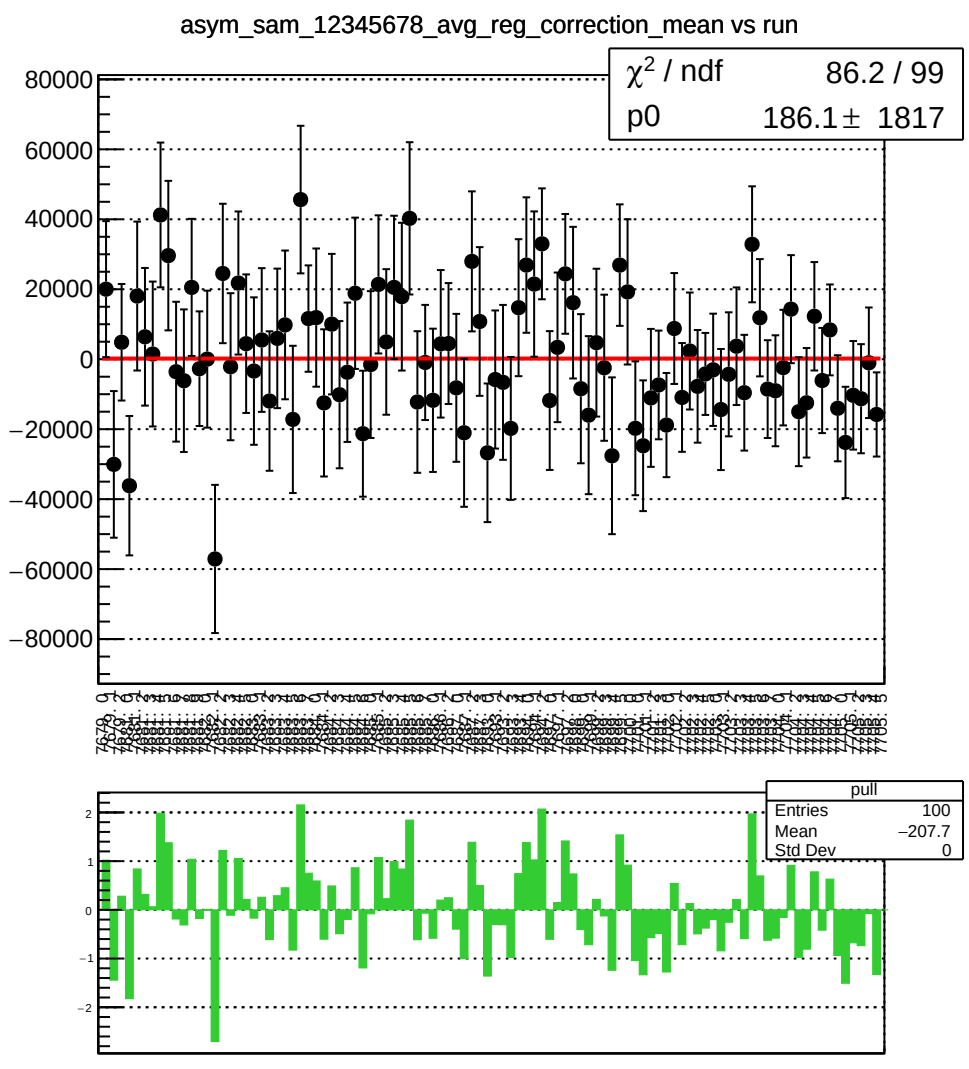

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104.9 / 99
p0 2.354e−14 ± 1.654e−14
pull
Entries 100
Mean 106.4
Std Dev 0
pull1D
Entries 100
Mean −0.0487
Std Dev 1.023

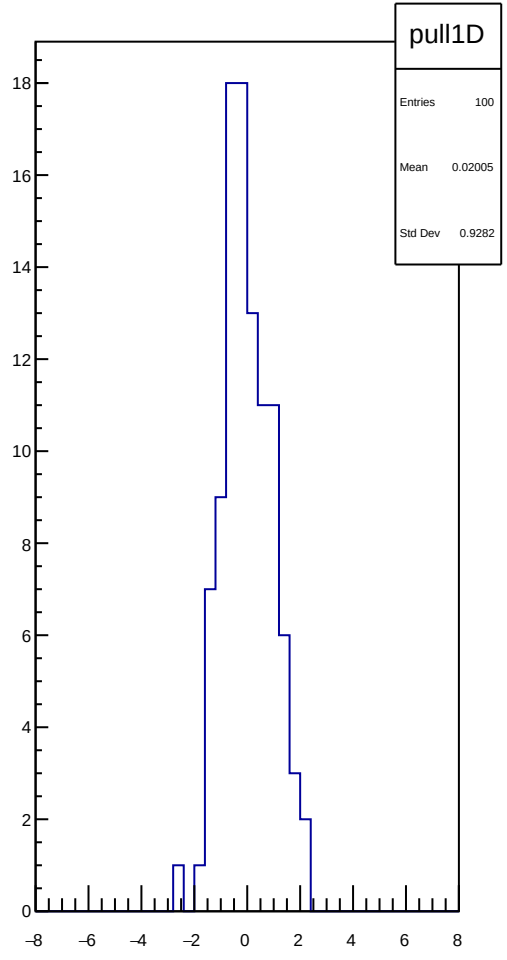

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.109e+05 / 99
p0 1.178e−11 ± 1.17e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

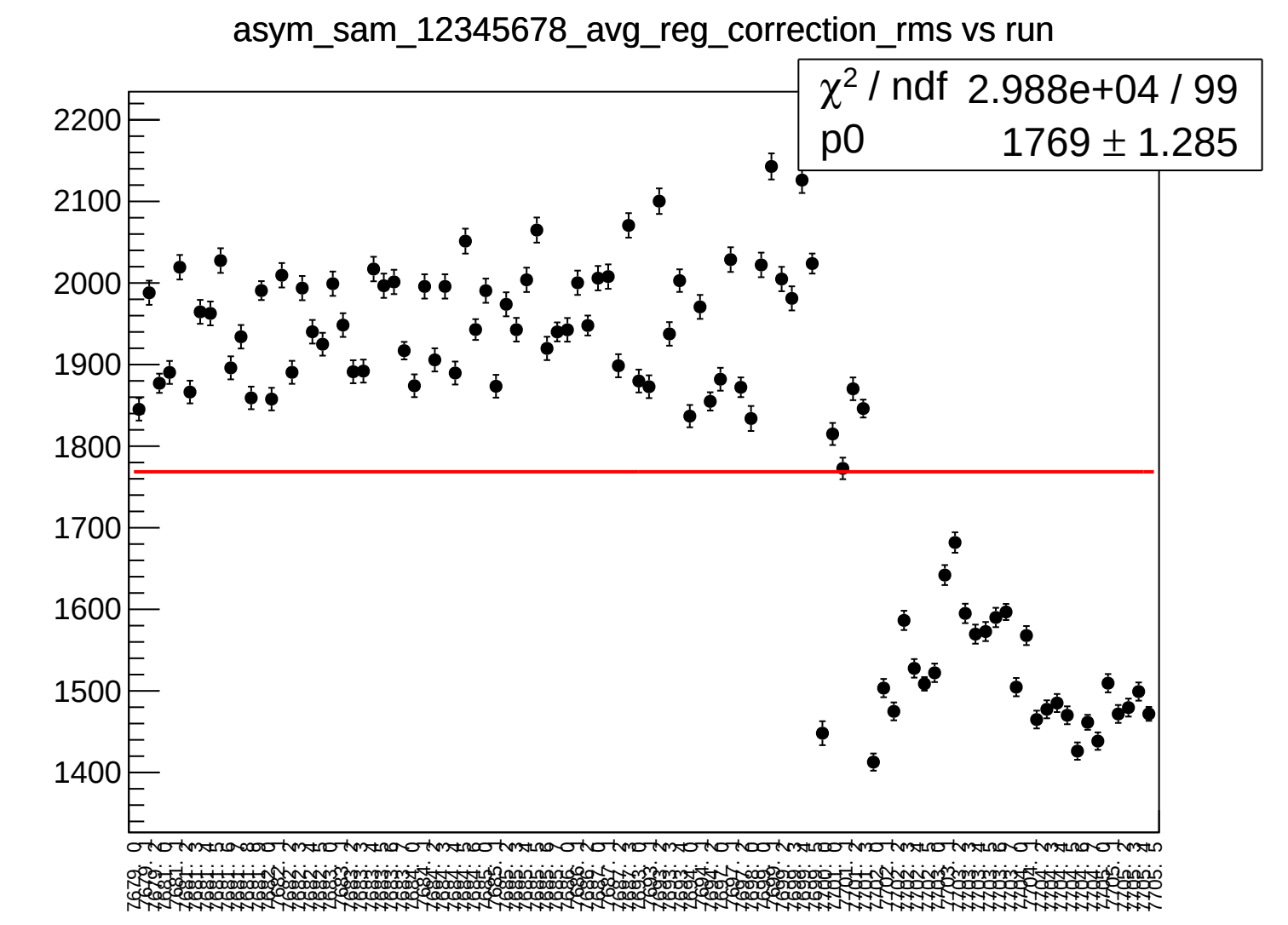

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 105 / 99
p0 8.144 ± 140.5
4000
2000
0
−2000
−4000
pull
Entries 100
Mean 216.7
Std Dev 0
2
1
0
−1
−2

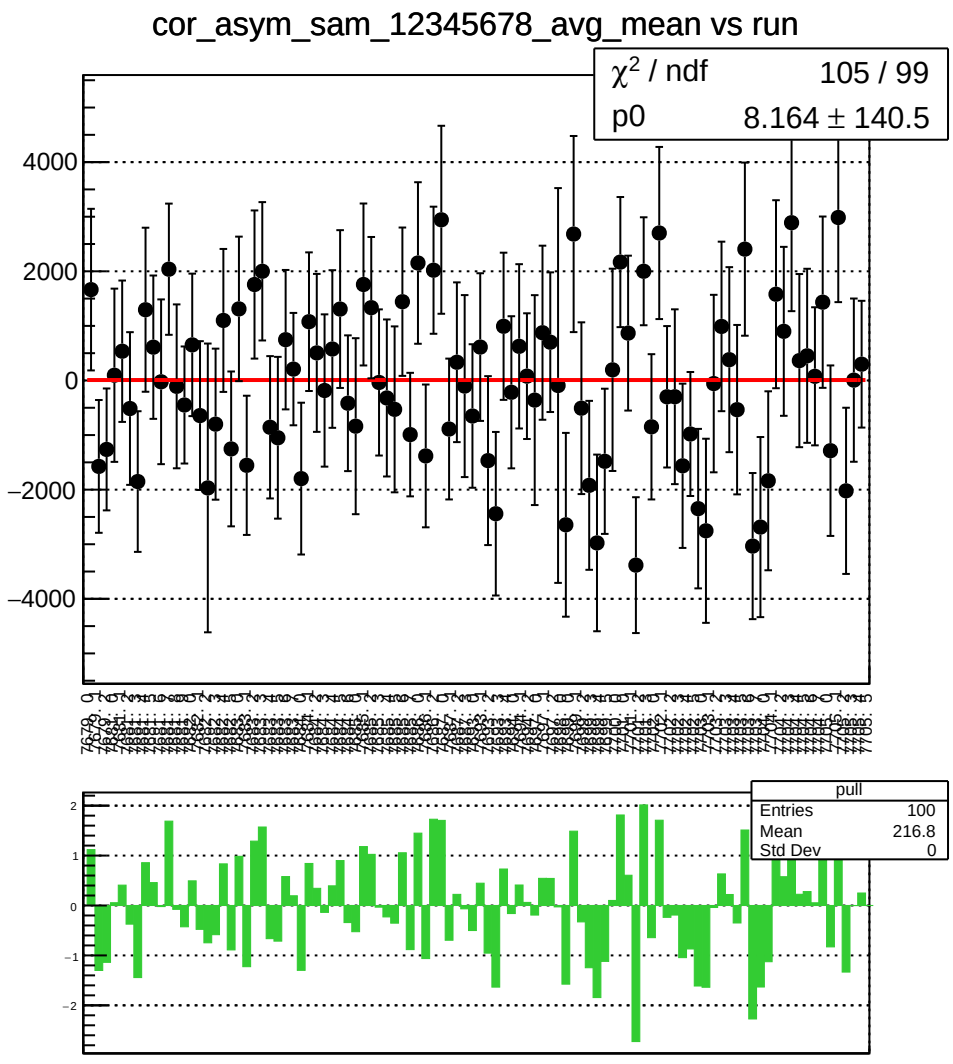

pull1D
Entries 100
Mean −0.007311
Std Dev 1.025
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

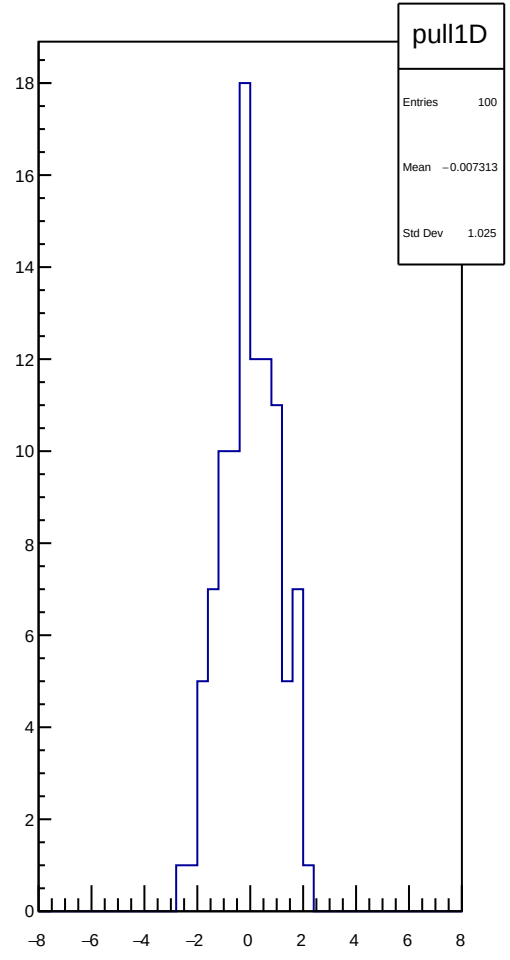

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.531e+04 / 99
p0 136.9 ± 0.09932
300
250
200
150
100

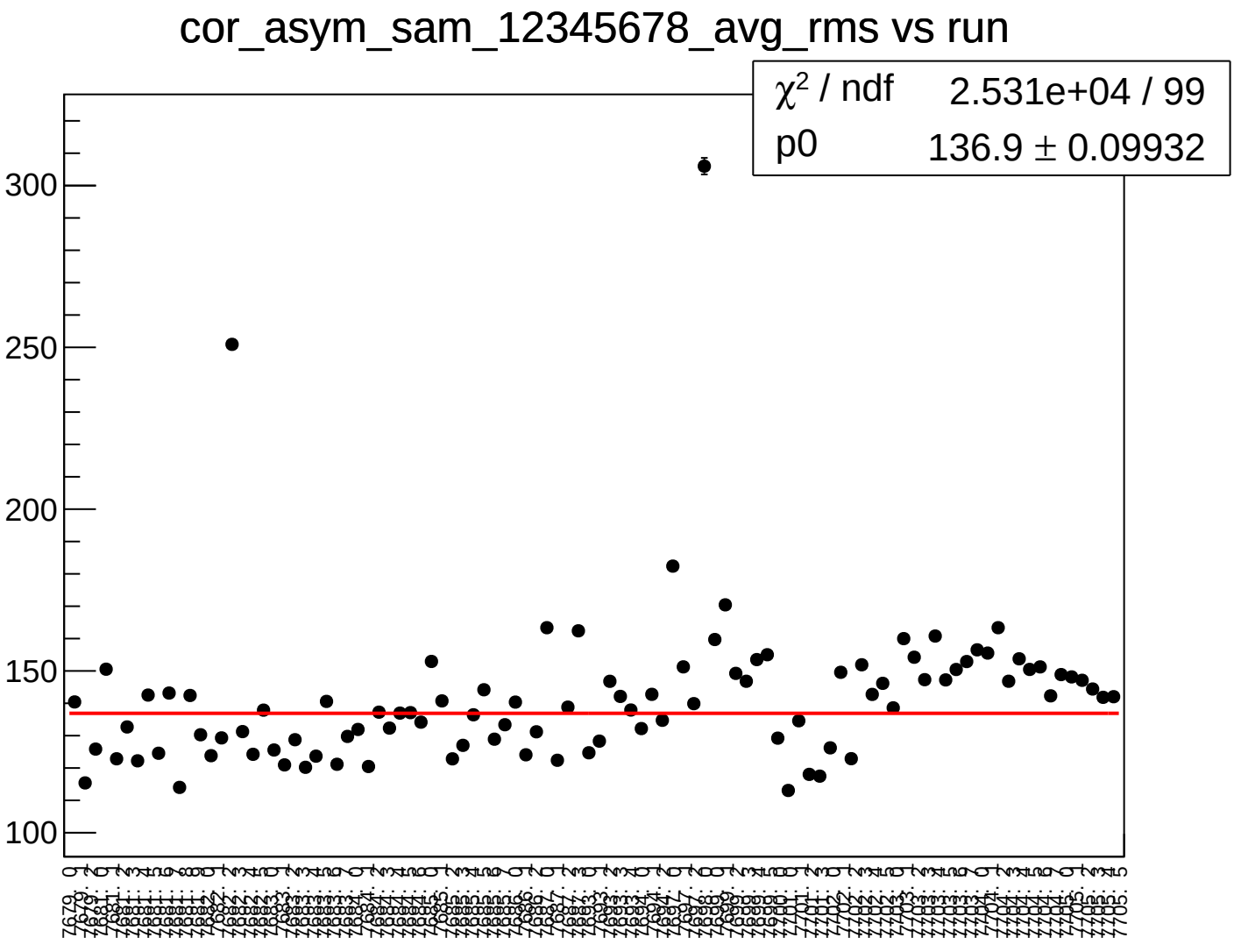

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 86.2 / 99
p0 186.1 ± 1817
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −207.7
Std Dev 0
2
1
0
−1
−2

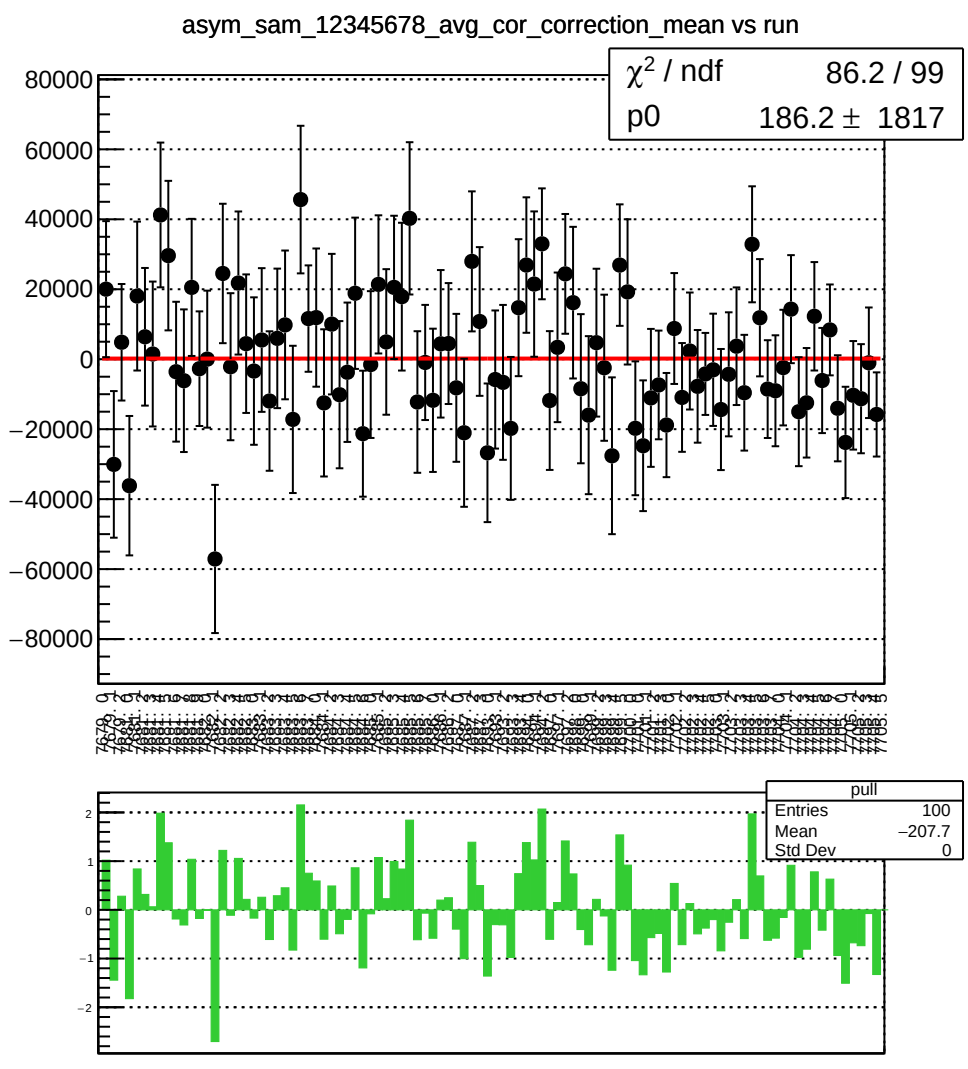

pull1D
Entries 100
Mean 0.02005
Std Dev 0.9282
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

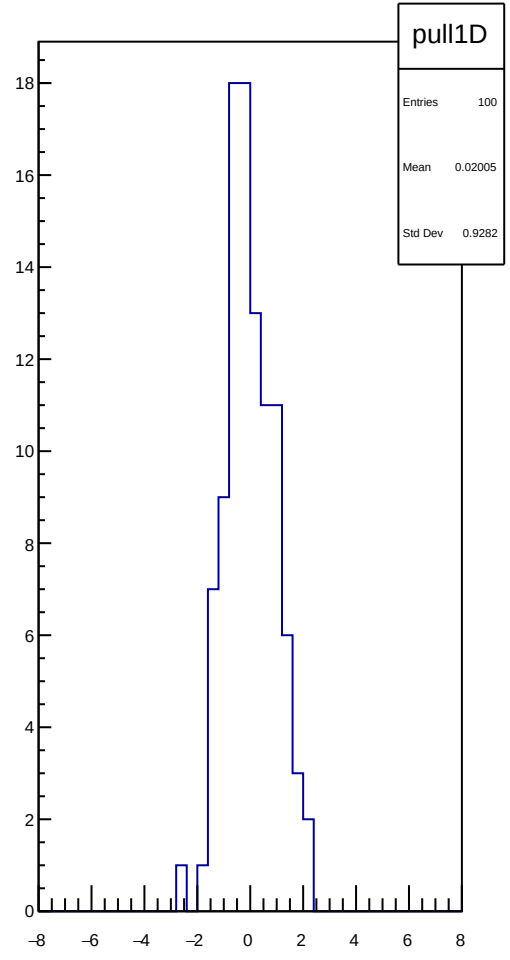

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 2.988e+04 / 99
p0 1769 ± 1.285
2200
2100
2000
1900
1800
1700
1600
1500
1400

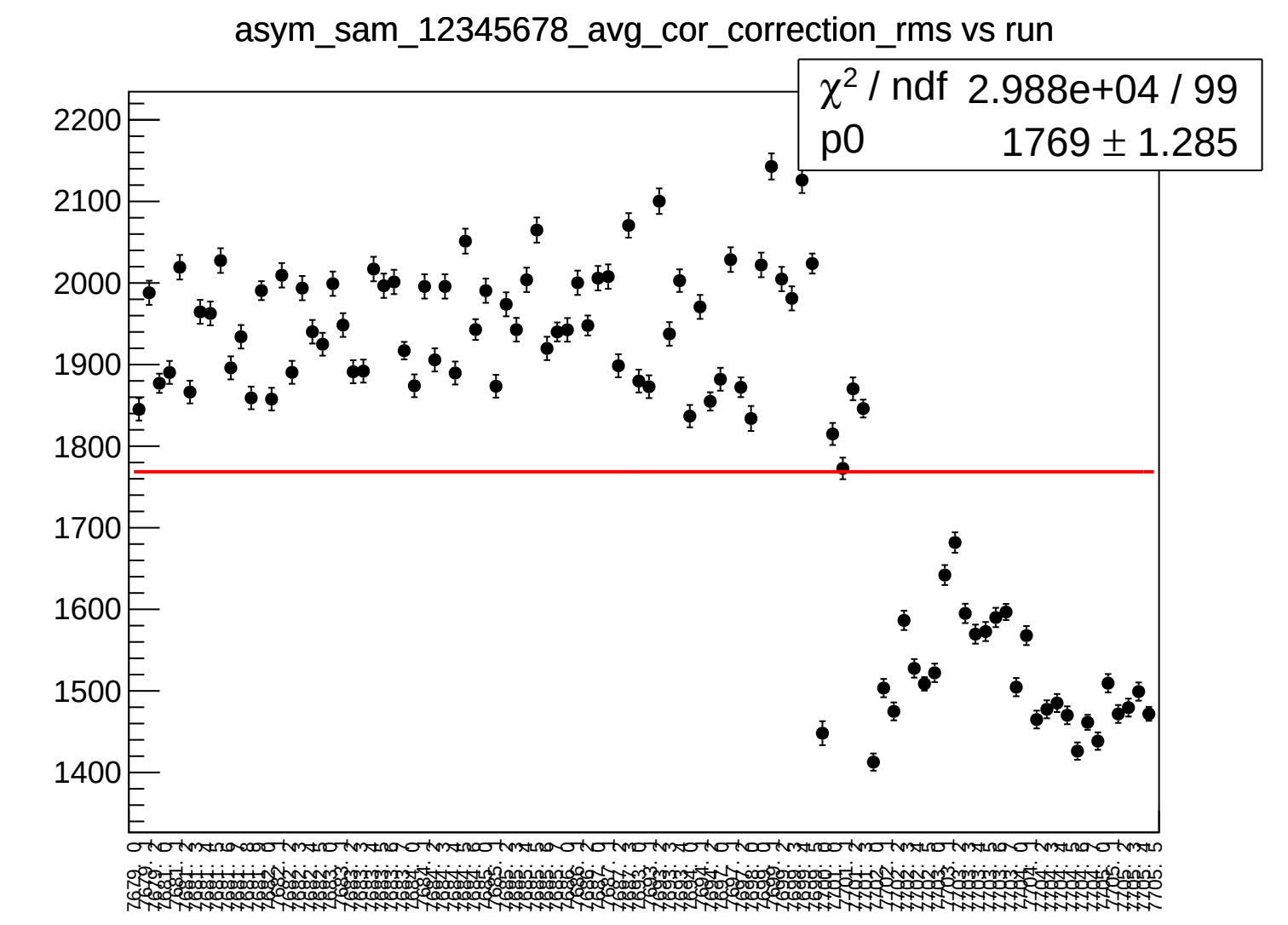

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 105 / 99
p0 8.164 ± 140.5
4000
2000
0
−2000
−4000
pull
Entries 100
Mean 216.8
Std Dev 0
2
1
0
−1
−2

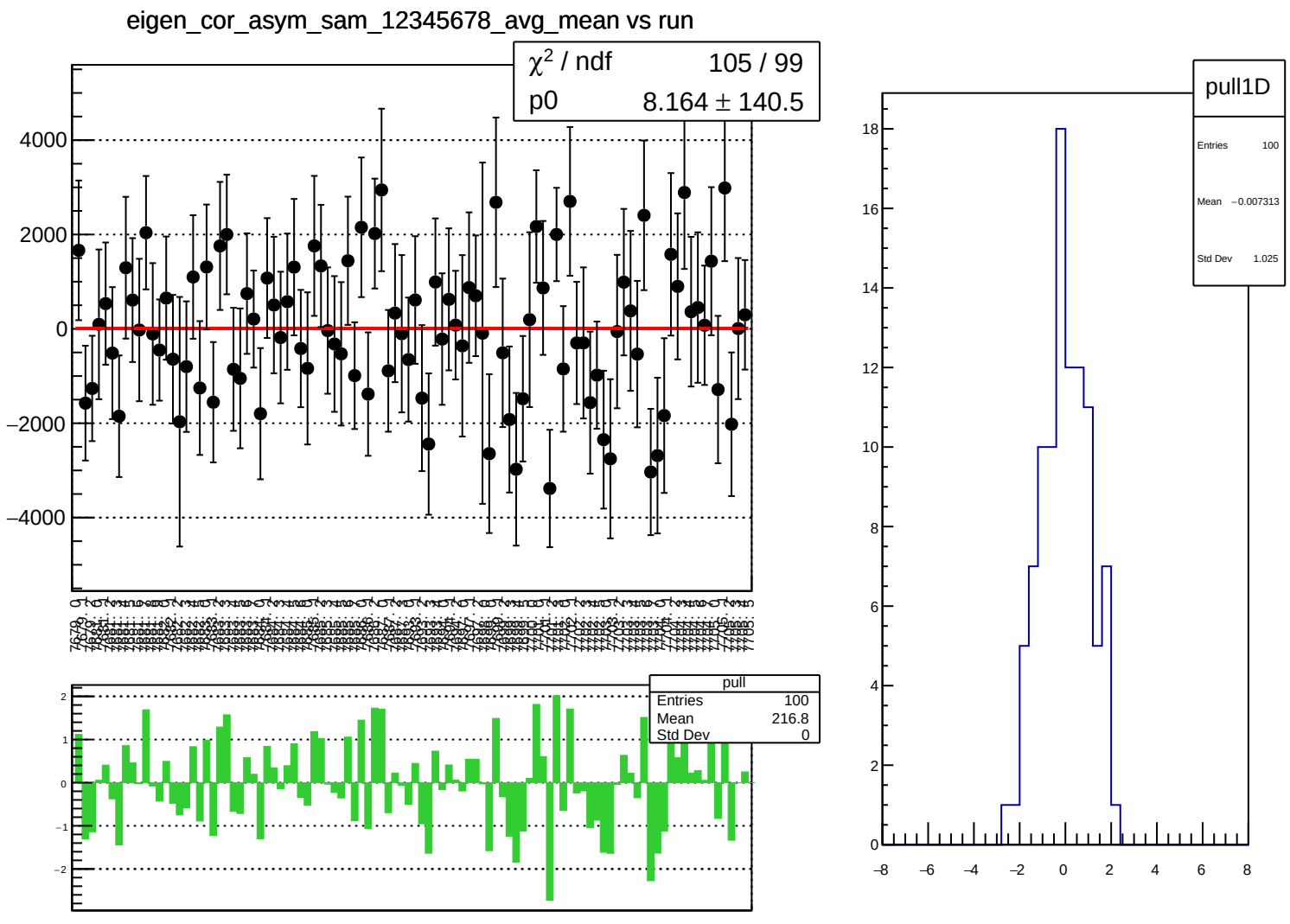

pull1D
Entries 100
Mean −0.007313
Std Dev 1.025
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

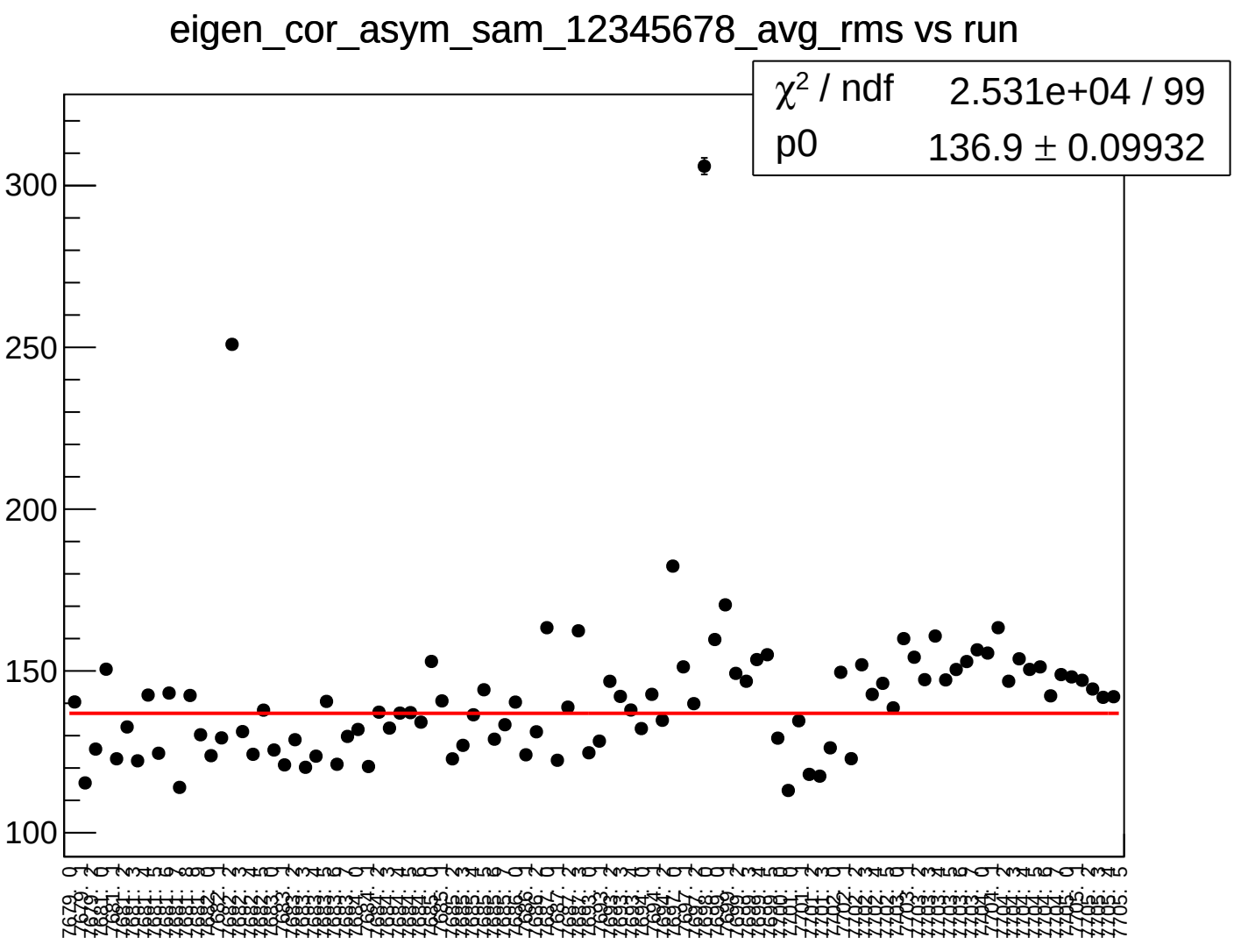

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.531e+04 / 99
p0 136.9 ± 0.09932
300
250
200
150
100

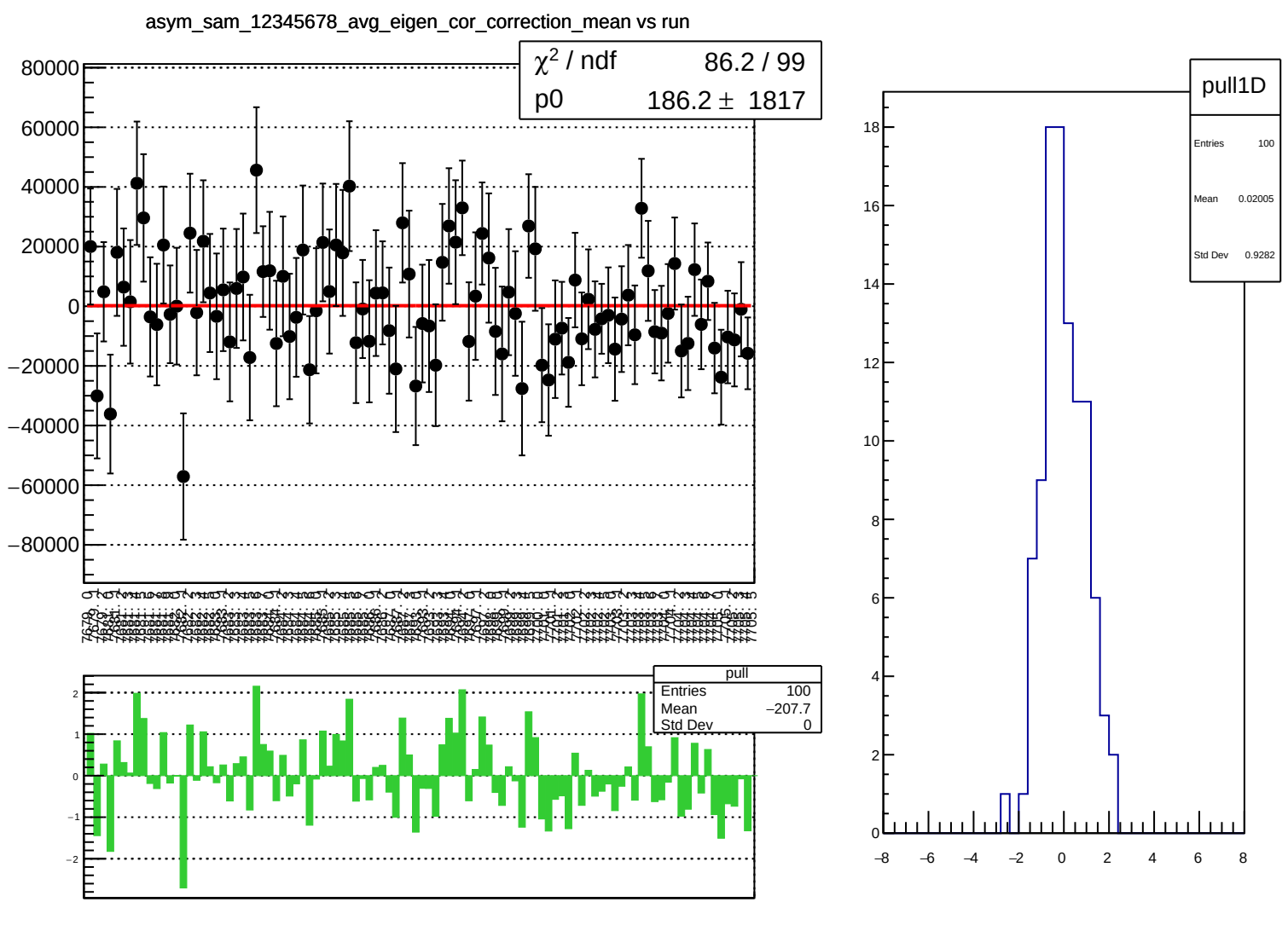

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 86.2 / 99
p0 186.2 ± 1817
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −207.7
Std Dev 0
2
1
0
−1
−2

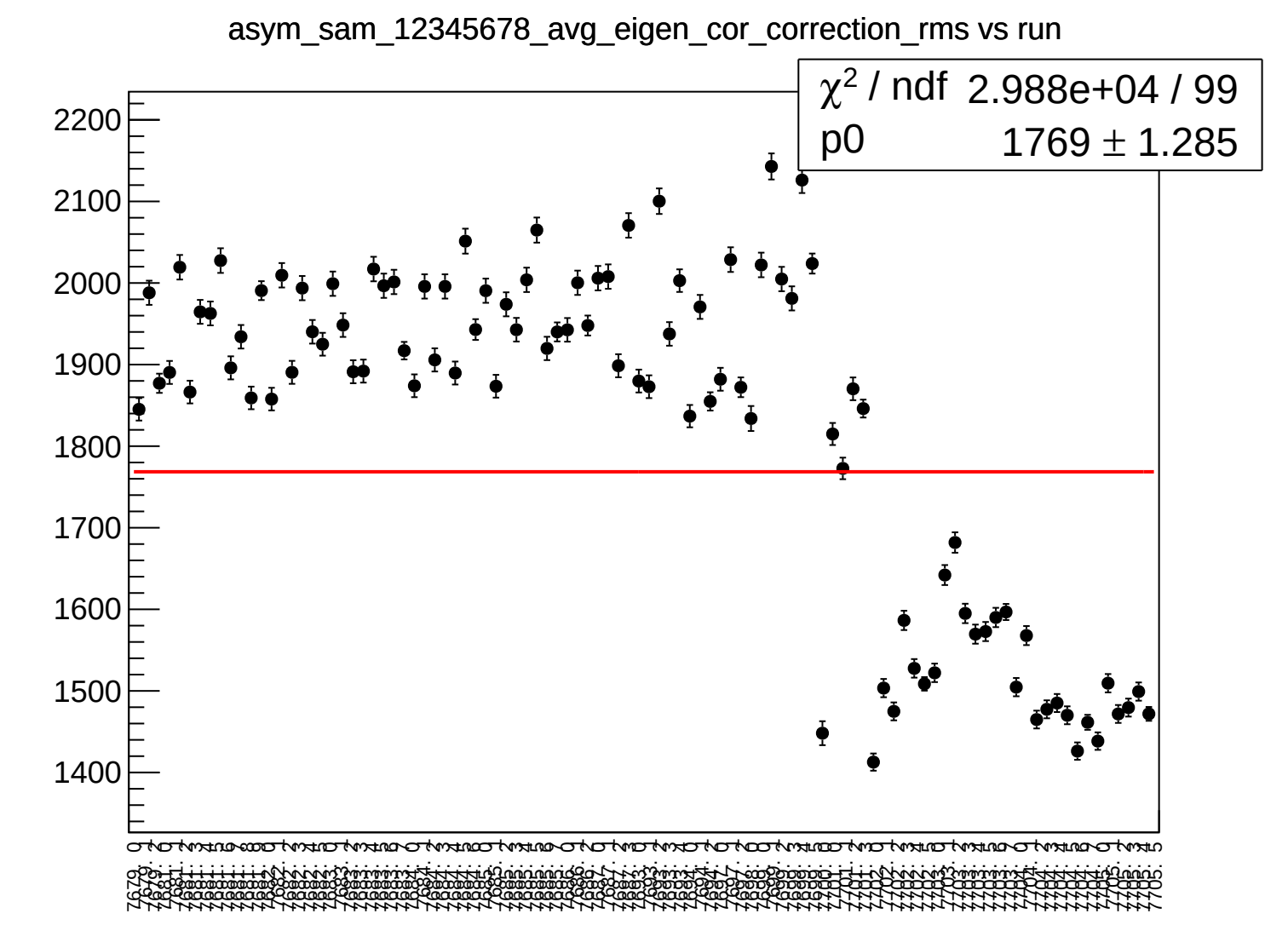

pull1D
Entries 100
Mean 0.02005
Std Dev 0.9282
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

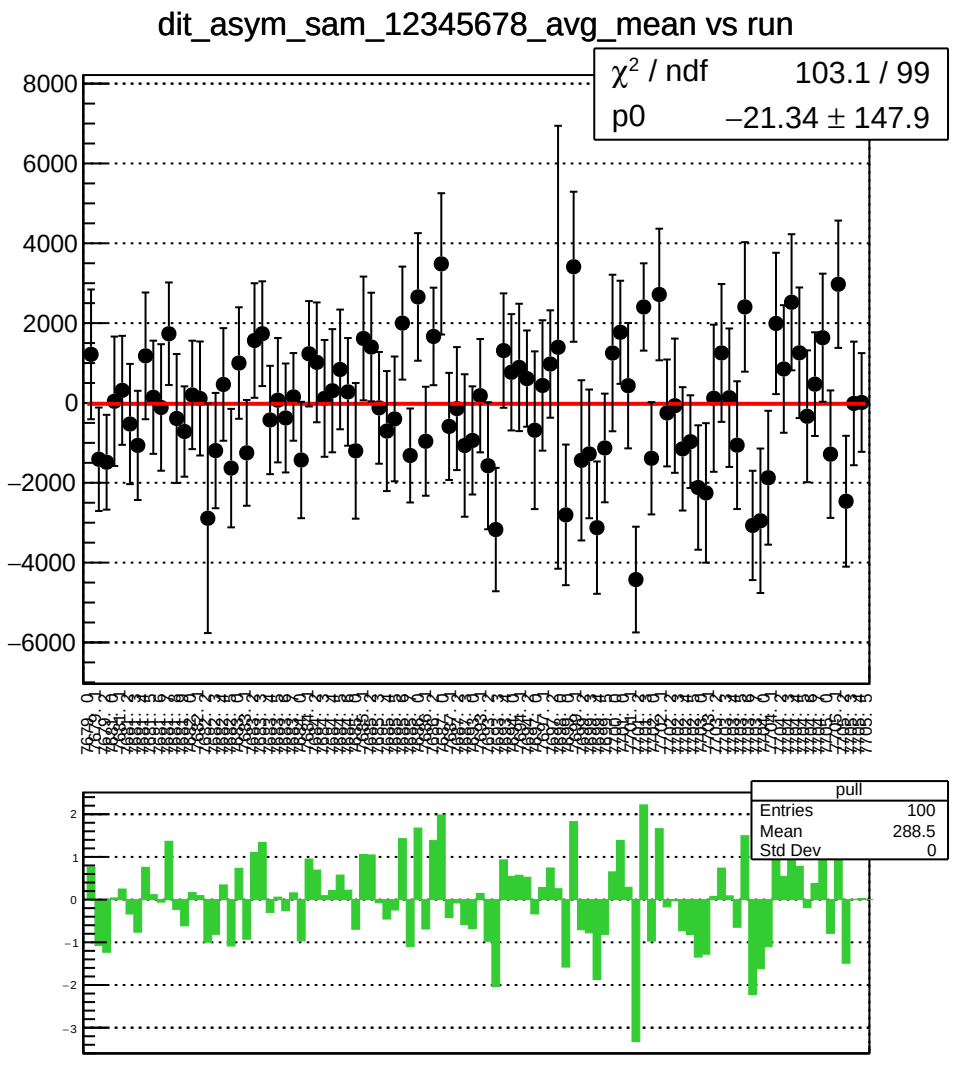

asym_sam_12345678_avg_cor_correction_rms vs run
χ^2 / ndf 2.988e+04 / 99
p0 1769 ± 1.285
2200
2100
2000
1900
1800
1700
1600
1500
1400

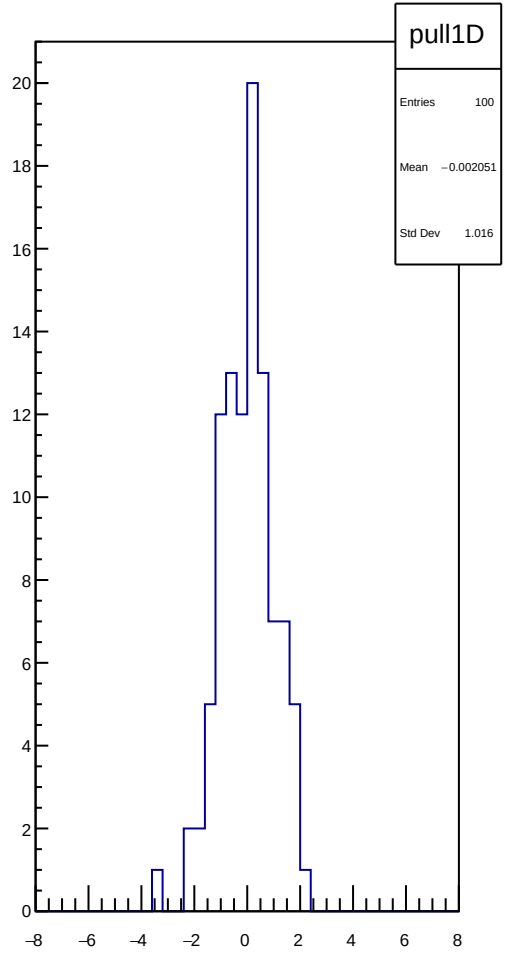

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 105 / 99
p0 8.164 ± 140.5
4000
2000
0
−2000
−4000
pull
Entries 100
Mean 216.8
Std Dev 0
pull1D
Entries 100
Mean −0.007313
Std Dev 1.025
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

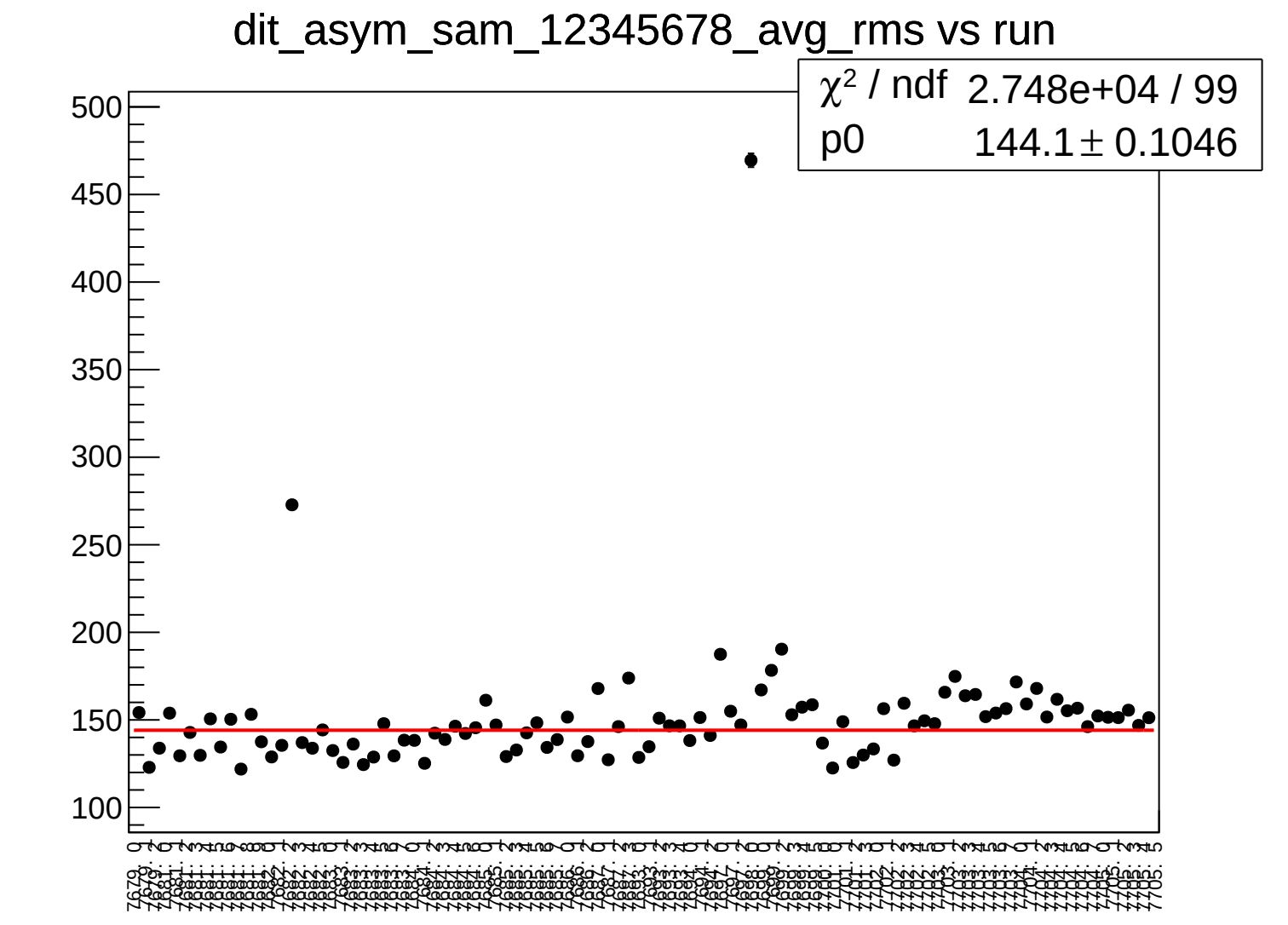

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.531e+04 / 99
p0 136.9 ± 0.09932
300
250
200
150
100

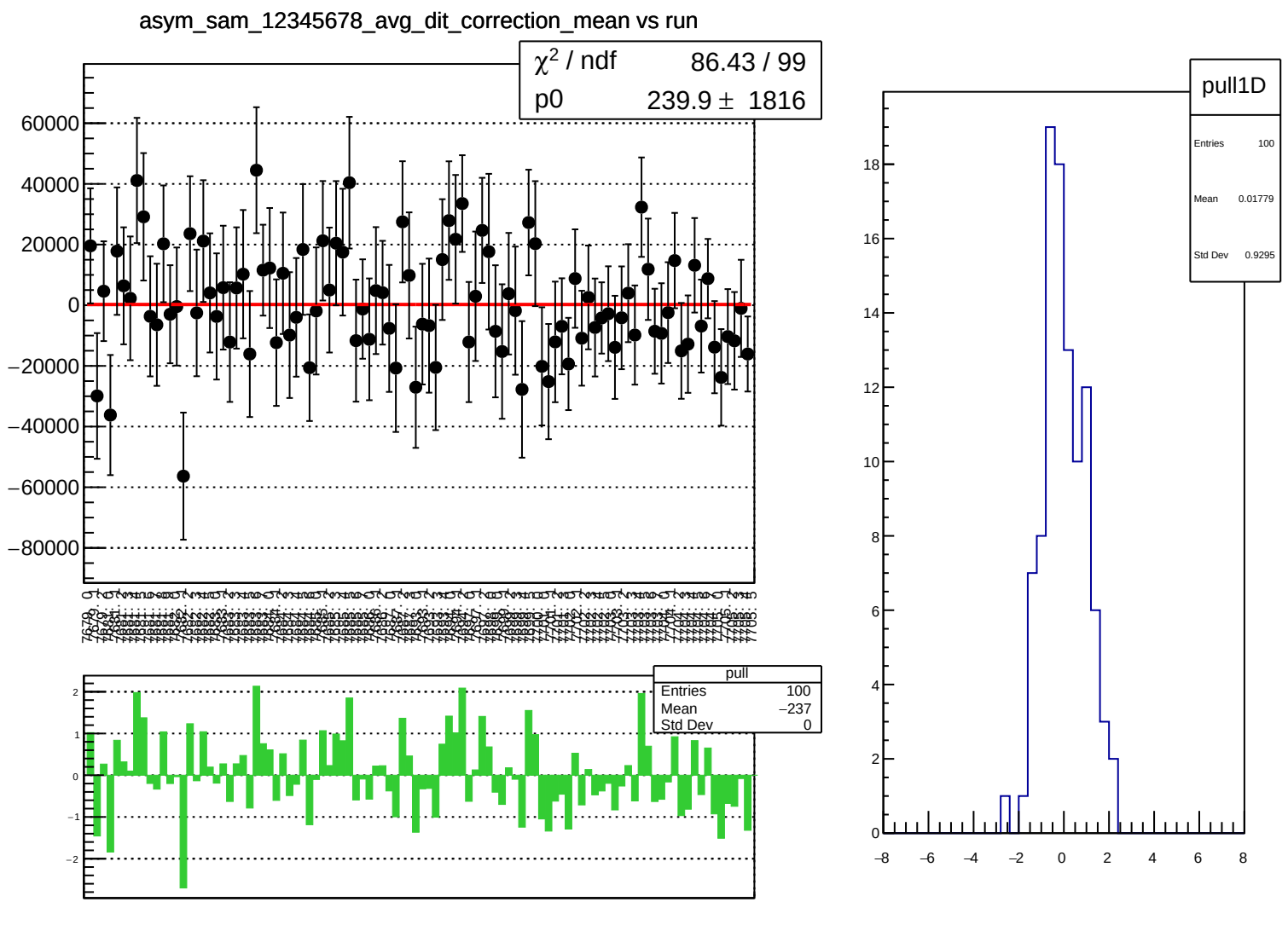

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 86.2 / 99
p0 186.2 ± 1817
pull
Entries 100
Mean −207.7
Std Dev 0
pull1D
Entries 100
Mean 0.02005
Std Dev 0.9282

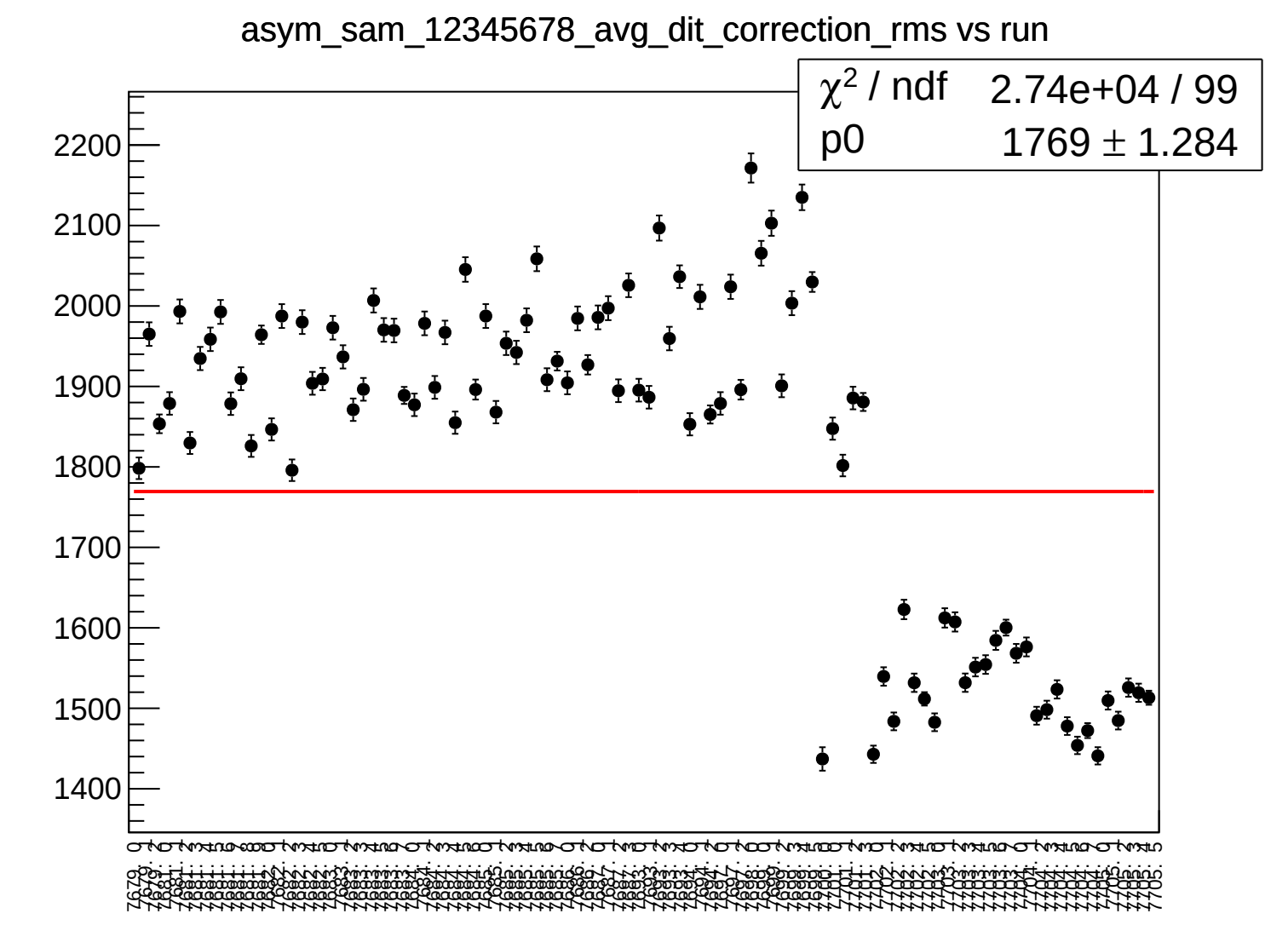

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.988e+04 / 99
p0 1769 ± 1.285
2200
2100
2000
1900
1800
1700
1600
1500
1400

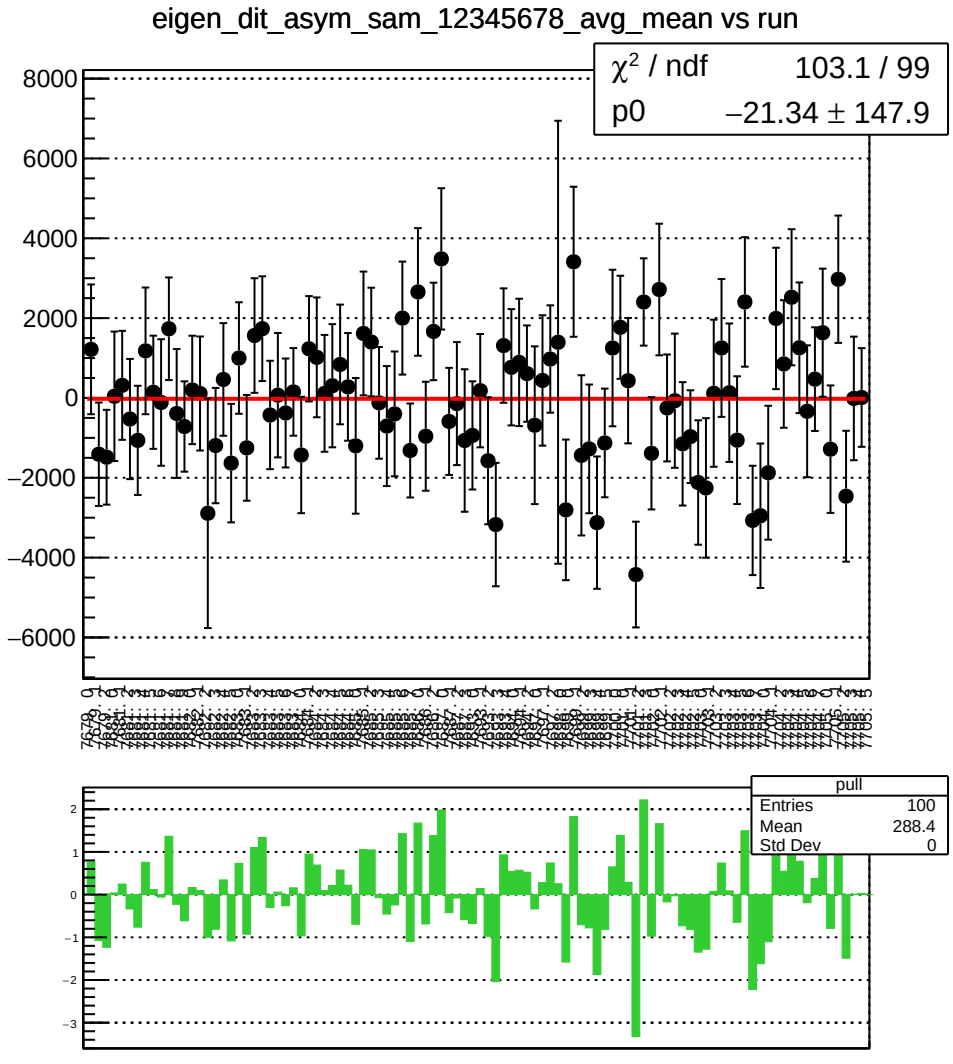

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 103.1 / 99
p0 −21.34 ± 147.9
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 100
Mean 288.5
Std Dev 0
2
1
0
−1
−2
−3

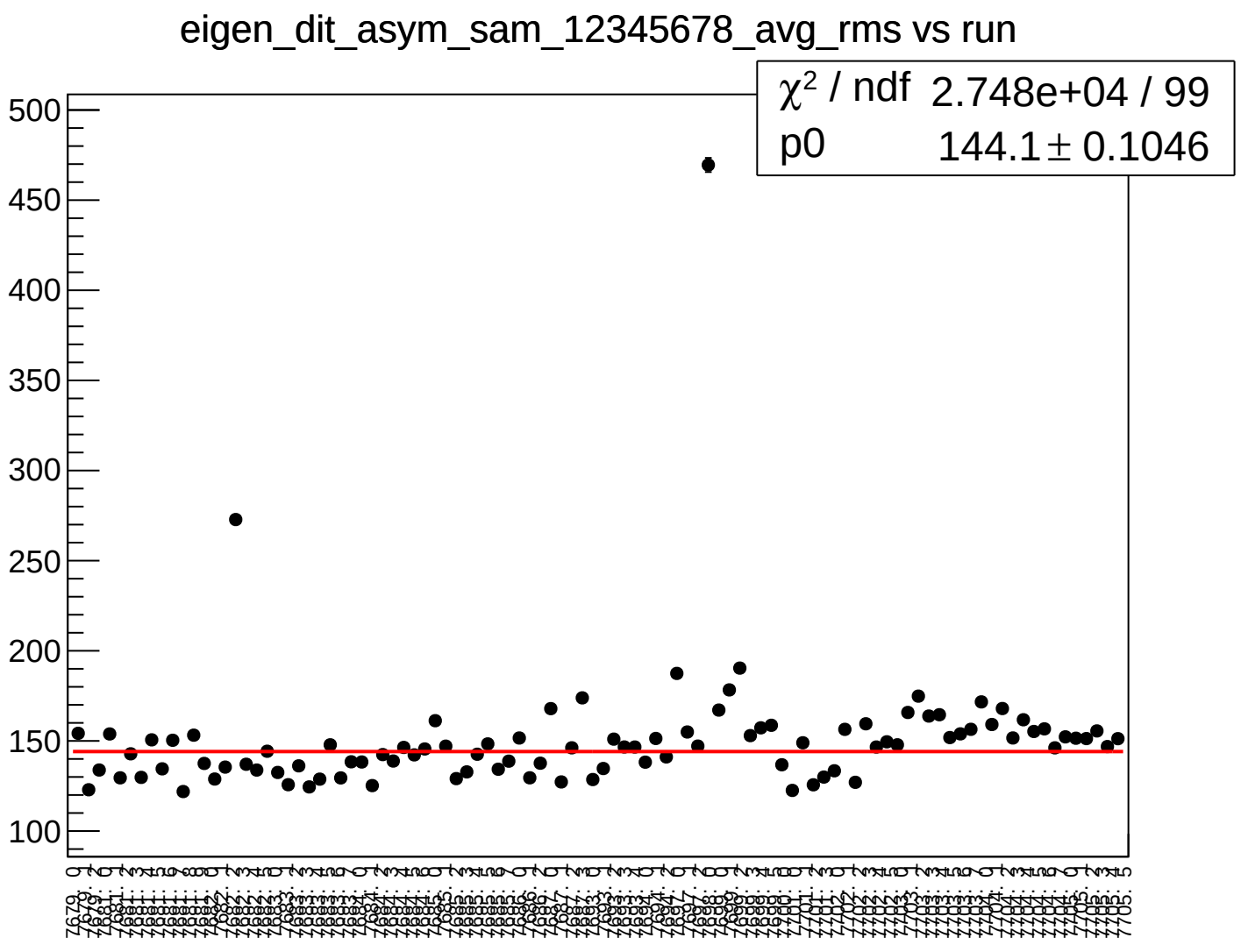

pull1D
Entries 100
Mean −0.002051
Std Dev 1.016
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

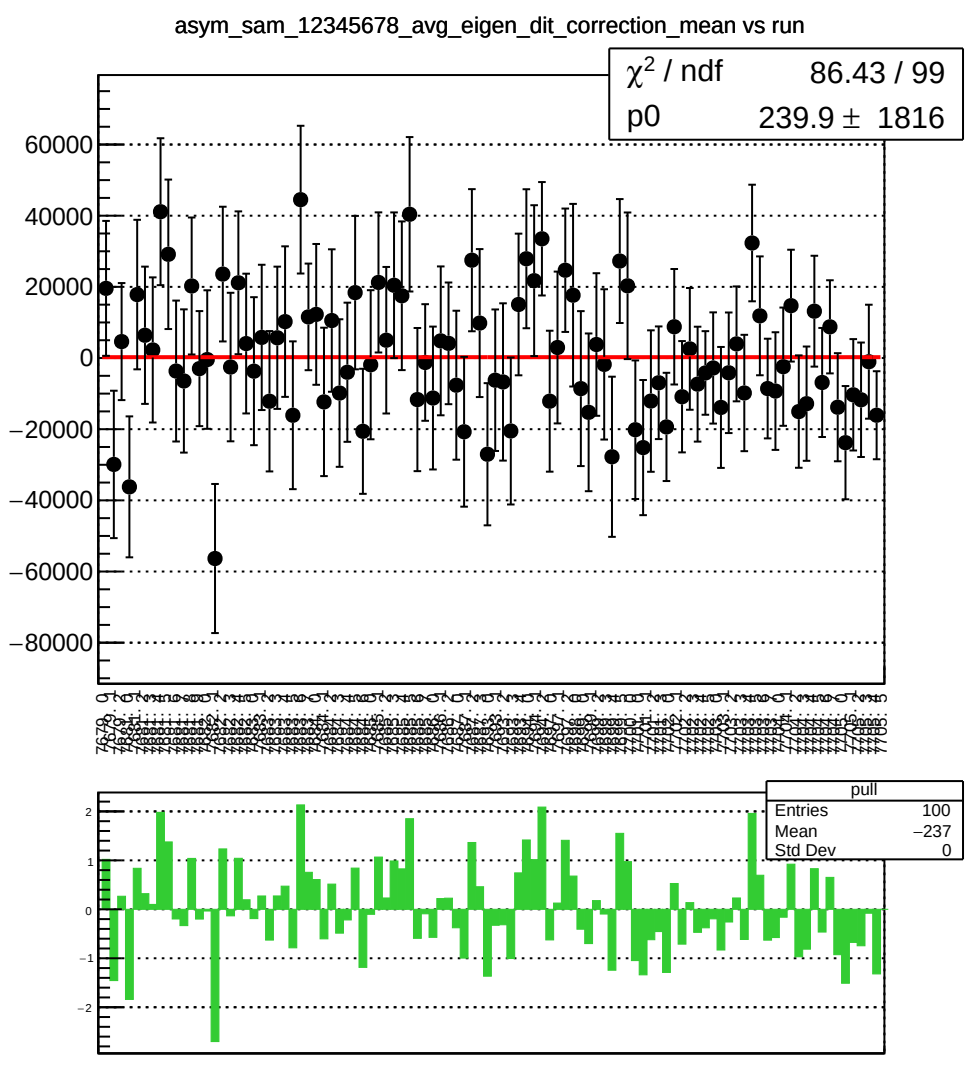

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.748e+04 / 99
p0 144.1 ± 0.1046
500
450
400
350
300
250
200
150
100

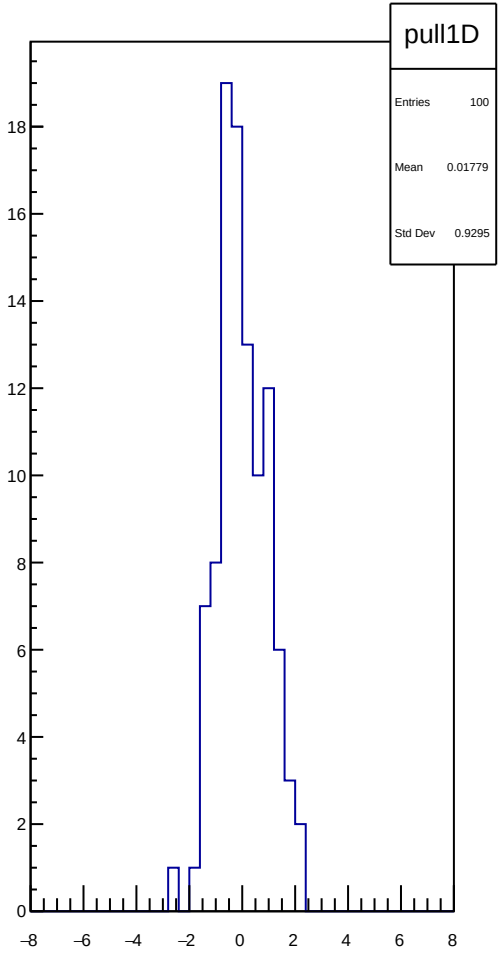

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 86.43 / 99
p0 239.9 ± 1816
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −237
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.01779
Std Dev 0.9295
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

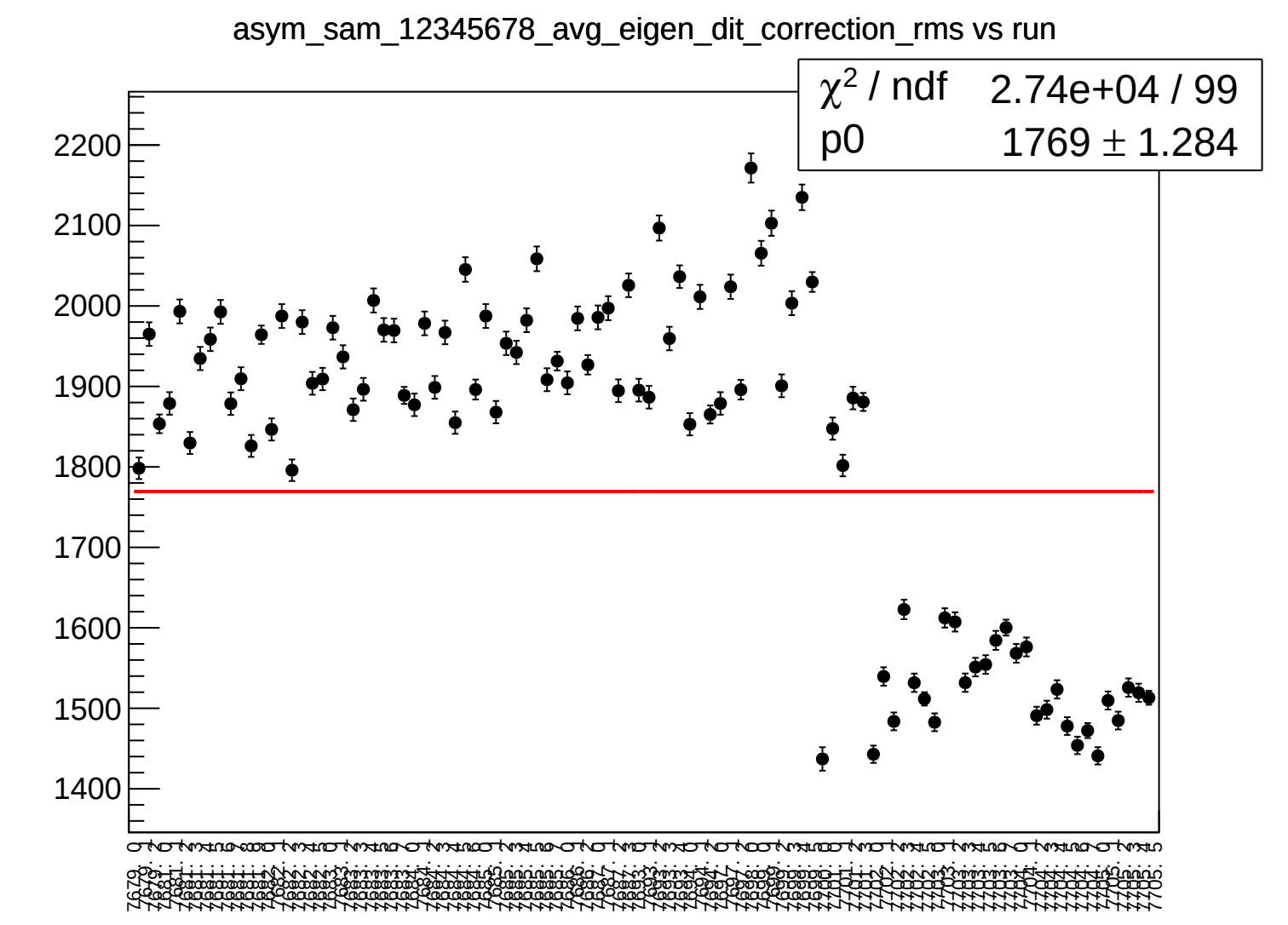

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 2.74e+04 / 99
p0 1769 ± 1.284
2200
2100
2000
1900
1800
1700
1600
1500
1400

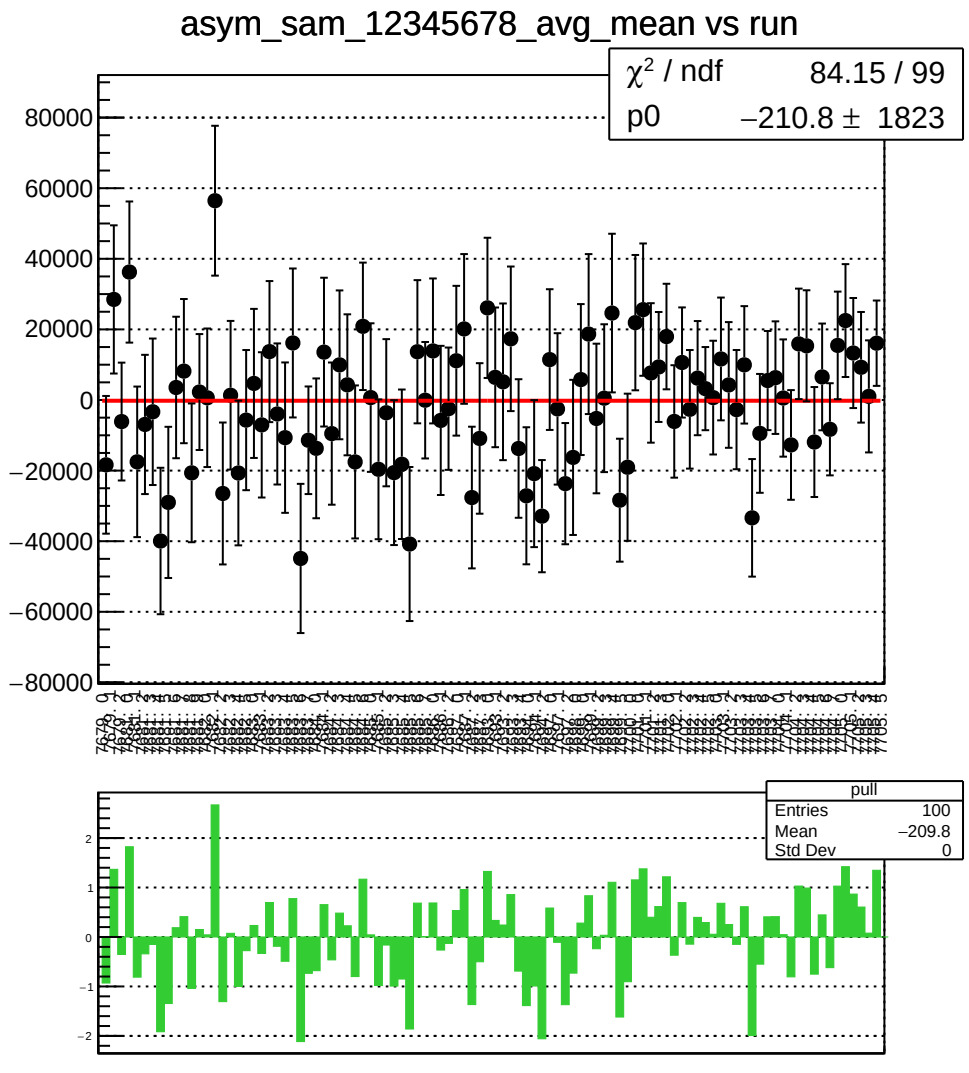

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 103.1 / 99
p0 −21.34 ± 147.9
pull
Entries 100
Mean 288.4
Std Dev 0
pull1D
Entries 100
Mean −0.002051
Std Dev 1.015

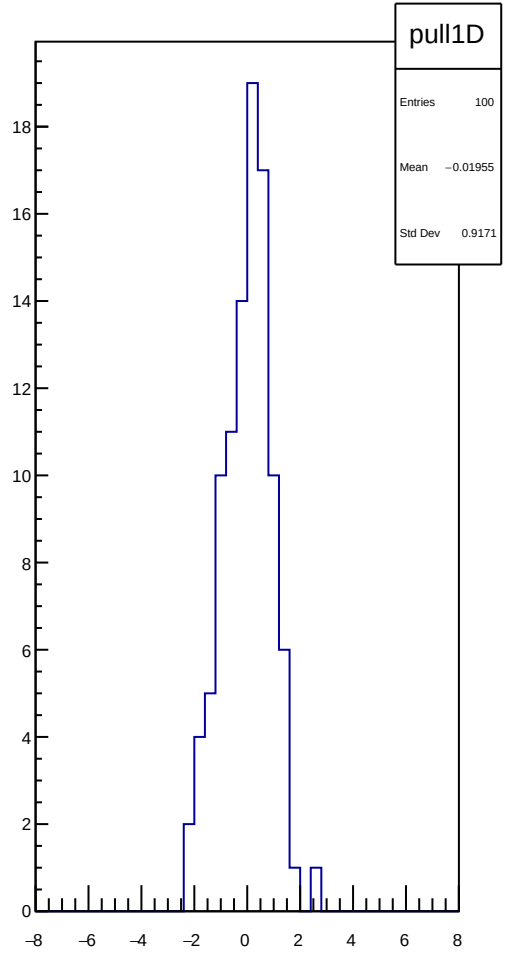

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.748e+04 / 99
p0 144.1 ± 0.1046
500
450
400
350
300
250
200
150
100

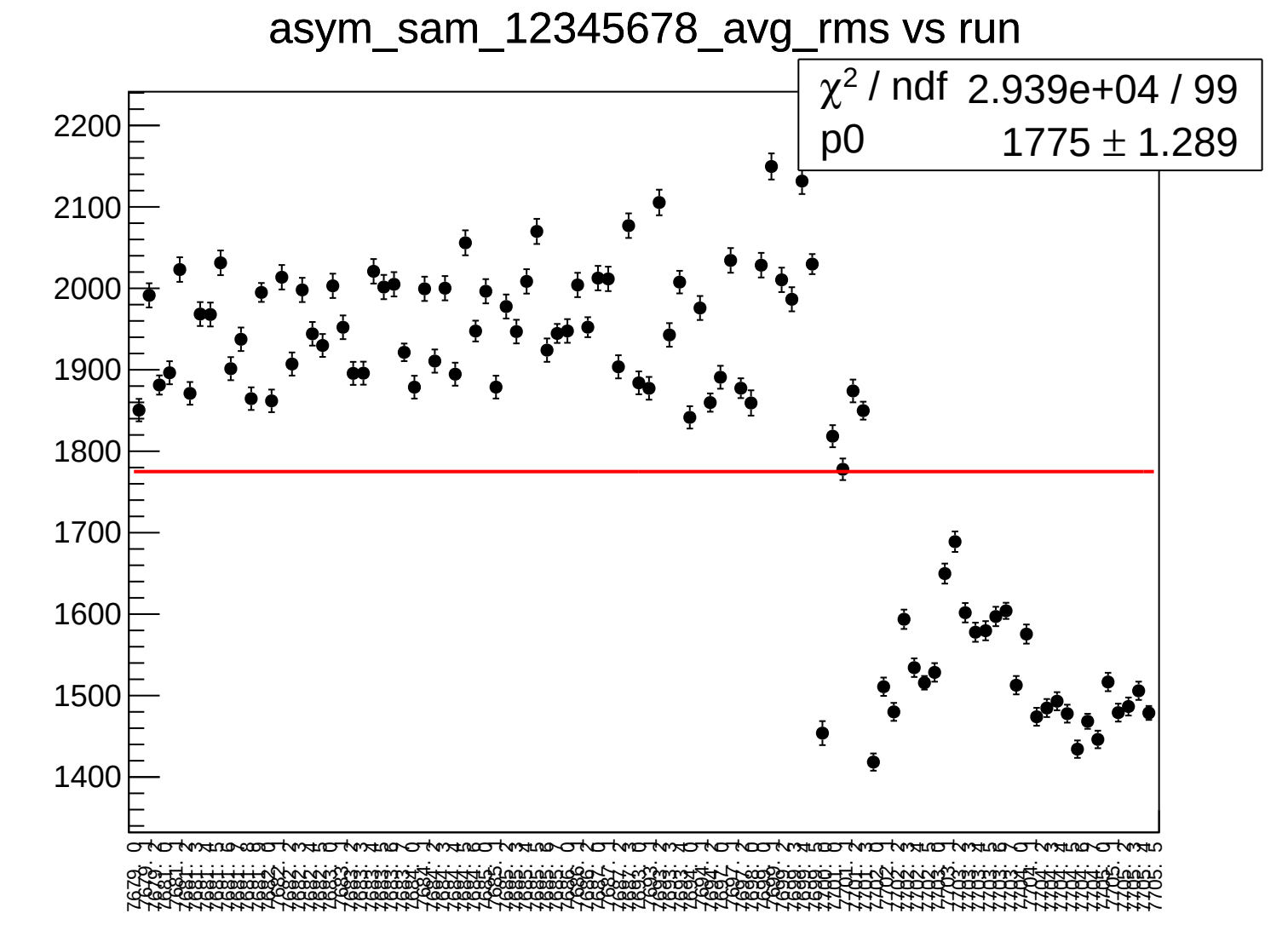

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 86.43 / 99
p0 239.9 ± 1816
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −237
Std Dev 0
2
1
0
−1
−2

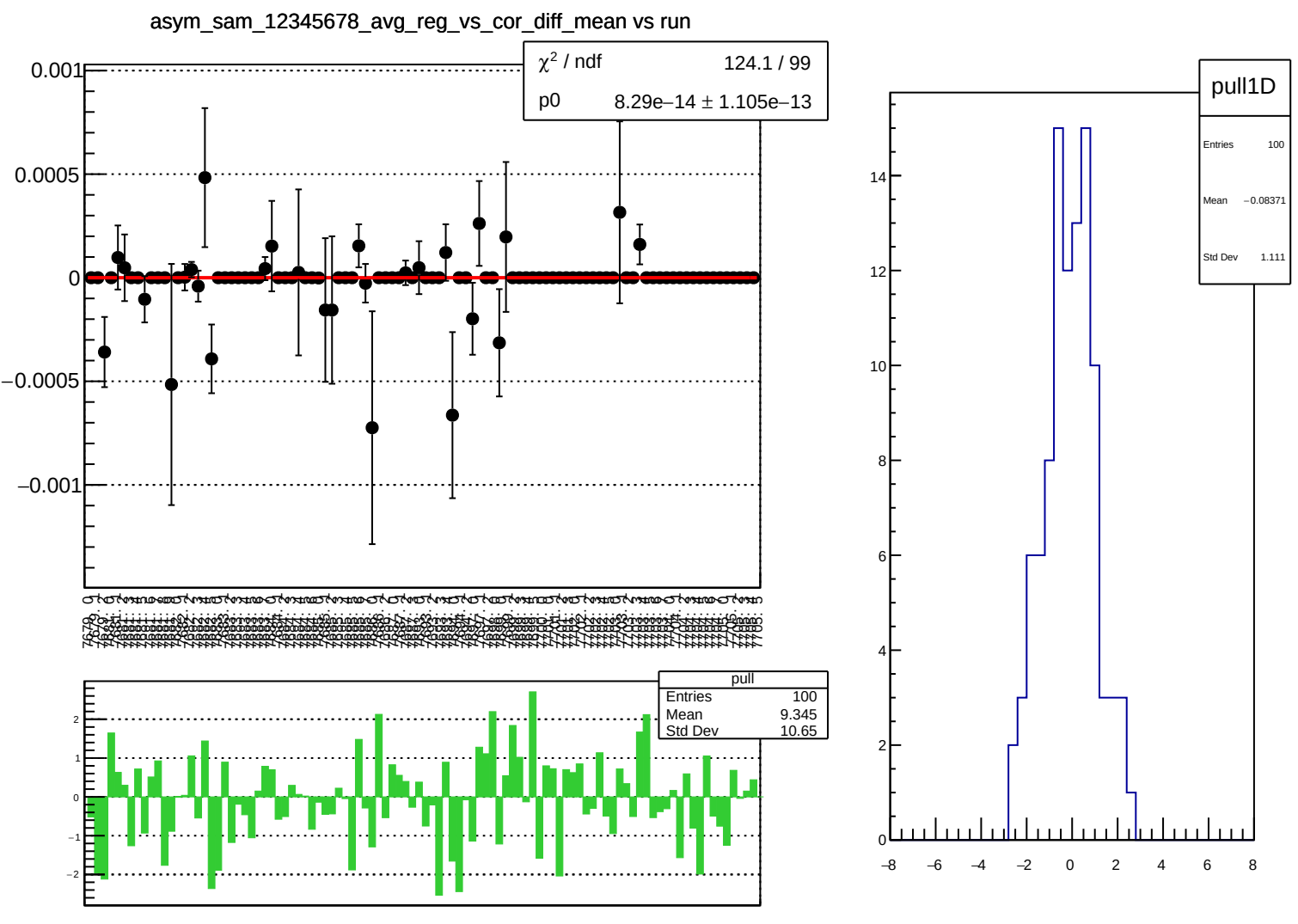

pull1D
Entries 100
Mean 0.01779
Std Dev 0.9295
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

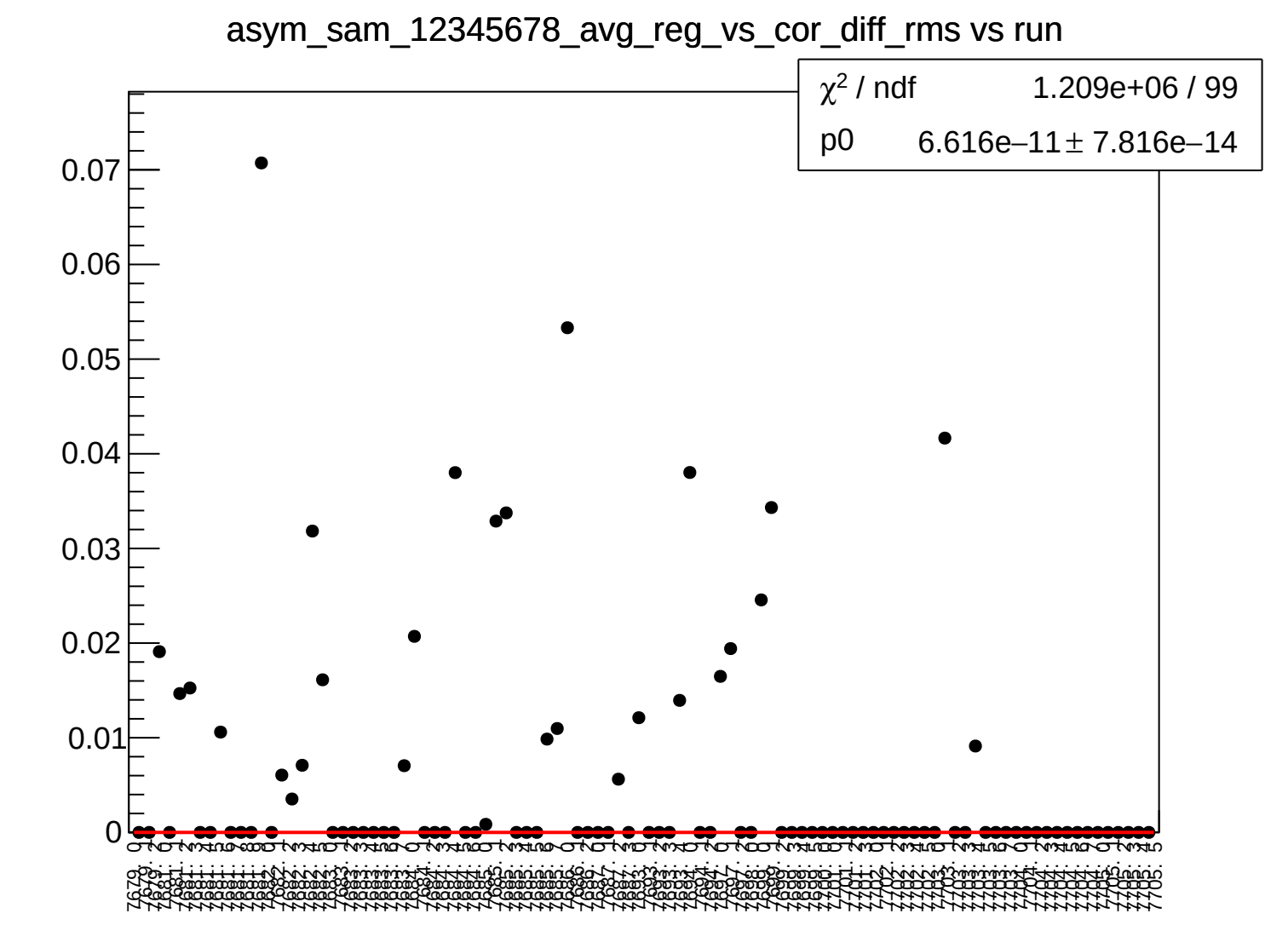

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.74e+04 / 99
p0 1769 ± 1.284
2200
2100
2000
1900
1800
1700
1600
1500
1400

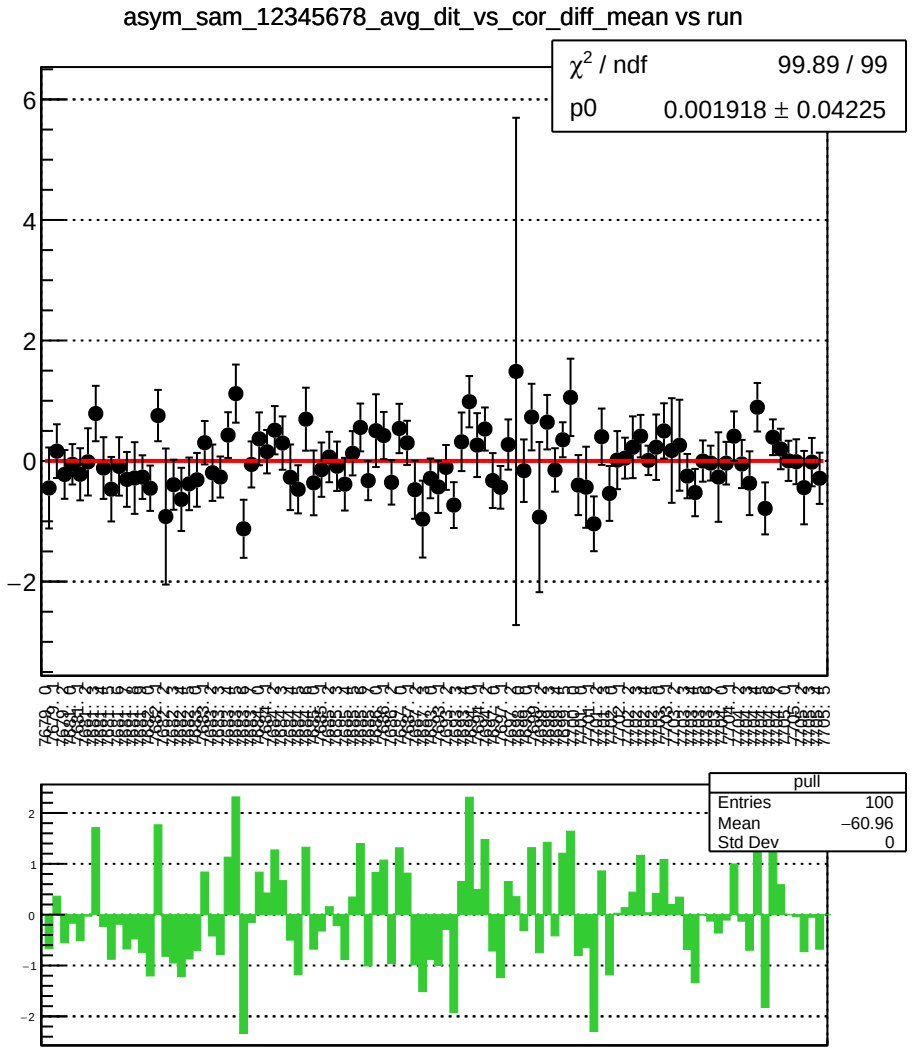

asym_sam_12345678_avg_mean vs run
χ² / ndf 84.15 / 99
p0 −210.8 ± 1823
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 100
Mean −209.8
Std Dev 0
2
1
0
−1
−2

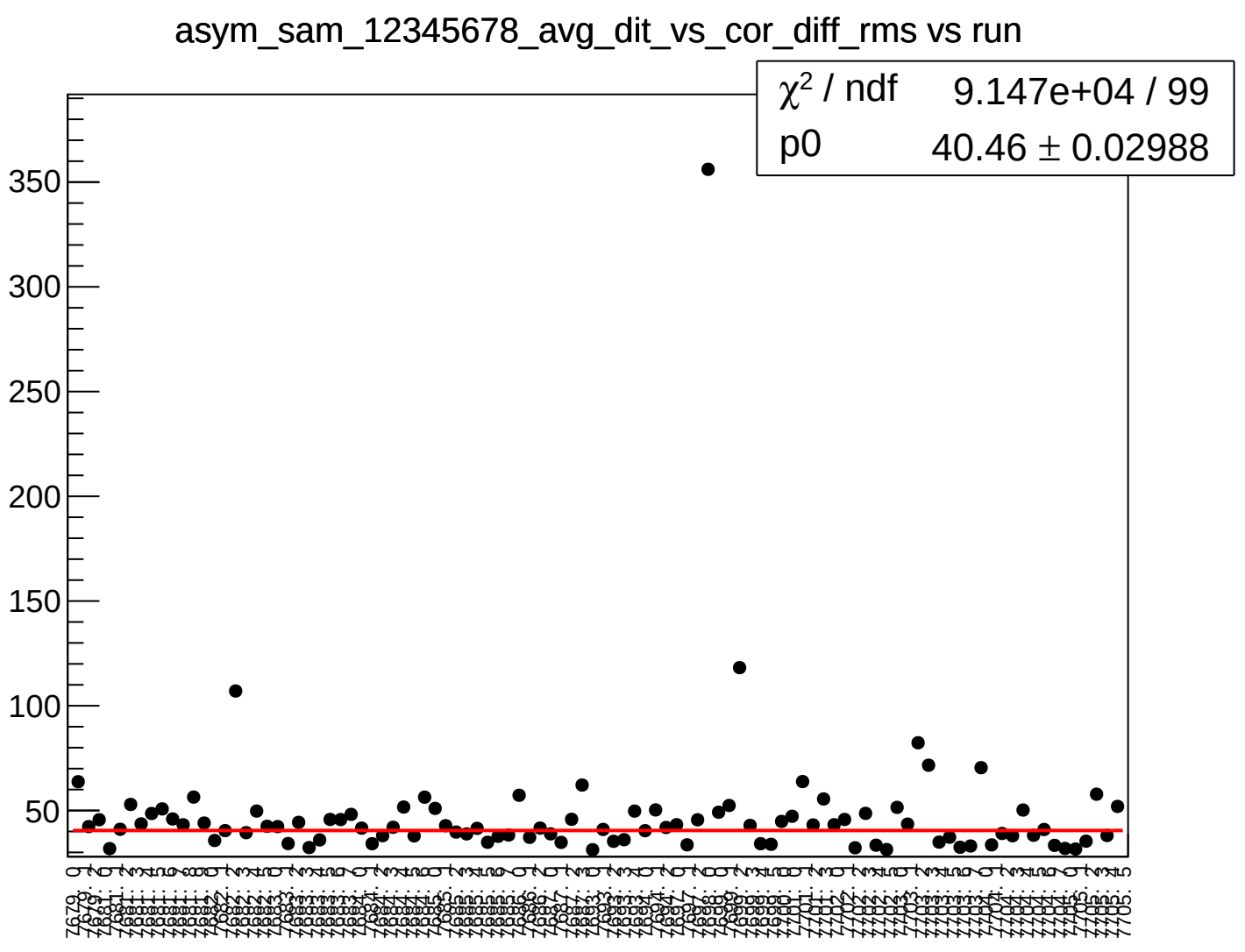

pull1D
Entries 100
Mean −0.01955
Std Dev 0.9171
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

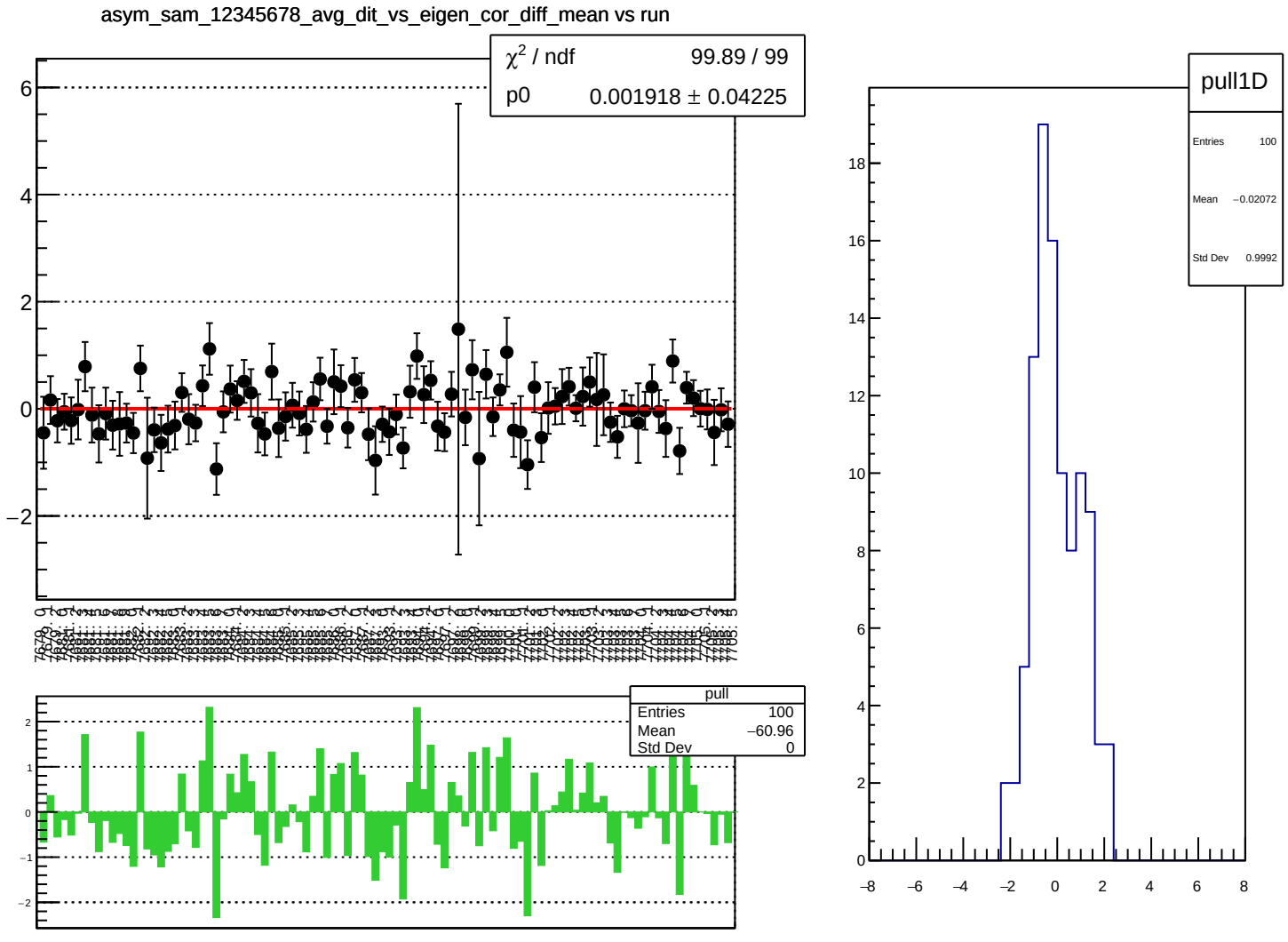

asym_sam_12345678_avg_rms vs run
χ² / ndf 2.939e+04 / 99
p0 1775 ± 1.289
2200
2100
2000
1900
1800
1700
1600
1500
1400

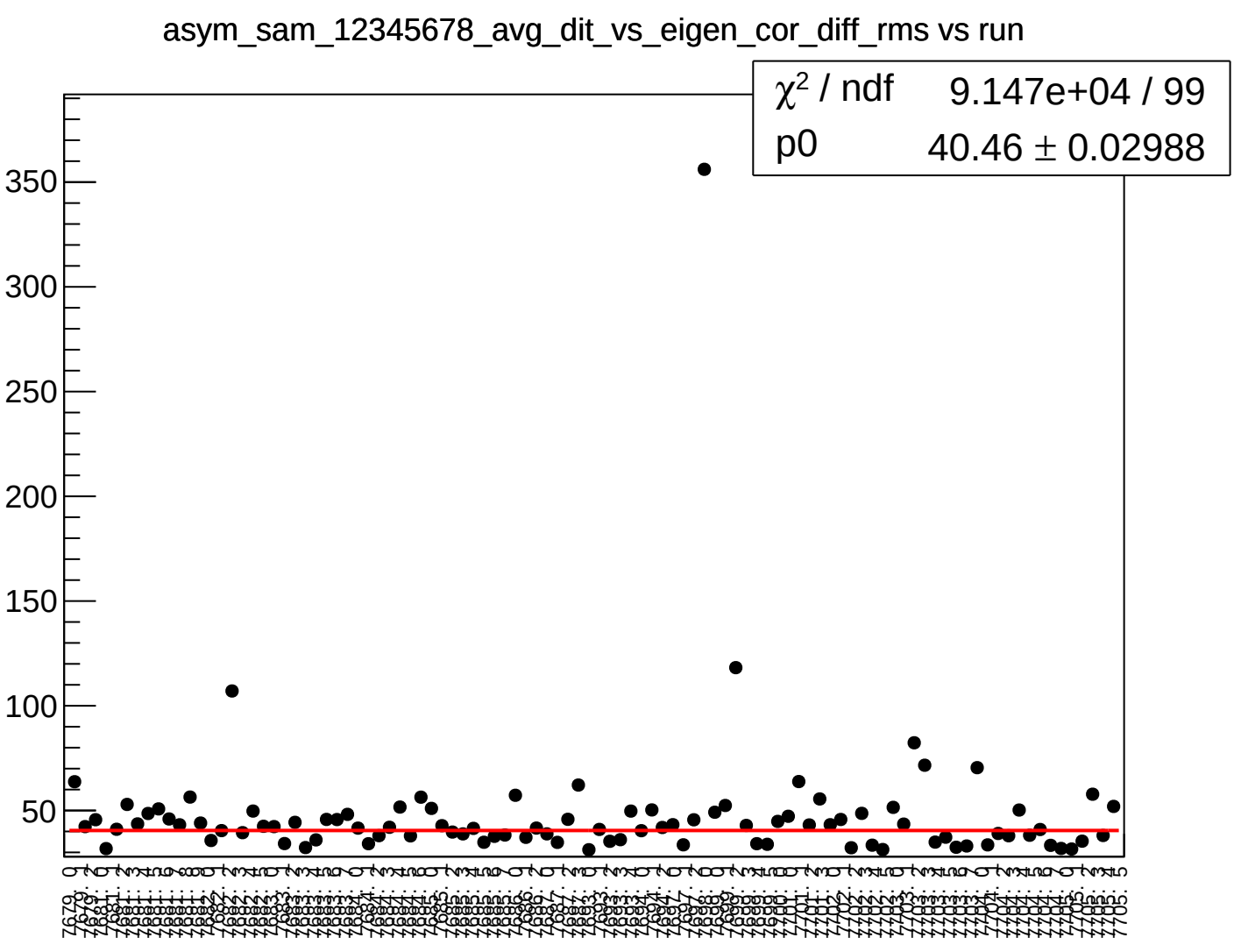

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 124.1 / 99
p0 8.29e−14 ± 1.105e−13
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 100
Mean 9.345
Std Dev 10.65
pull1D
Entries 100
Mean −0.08371
Std Dev 1.111

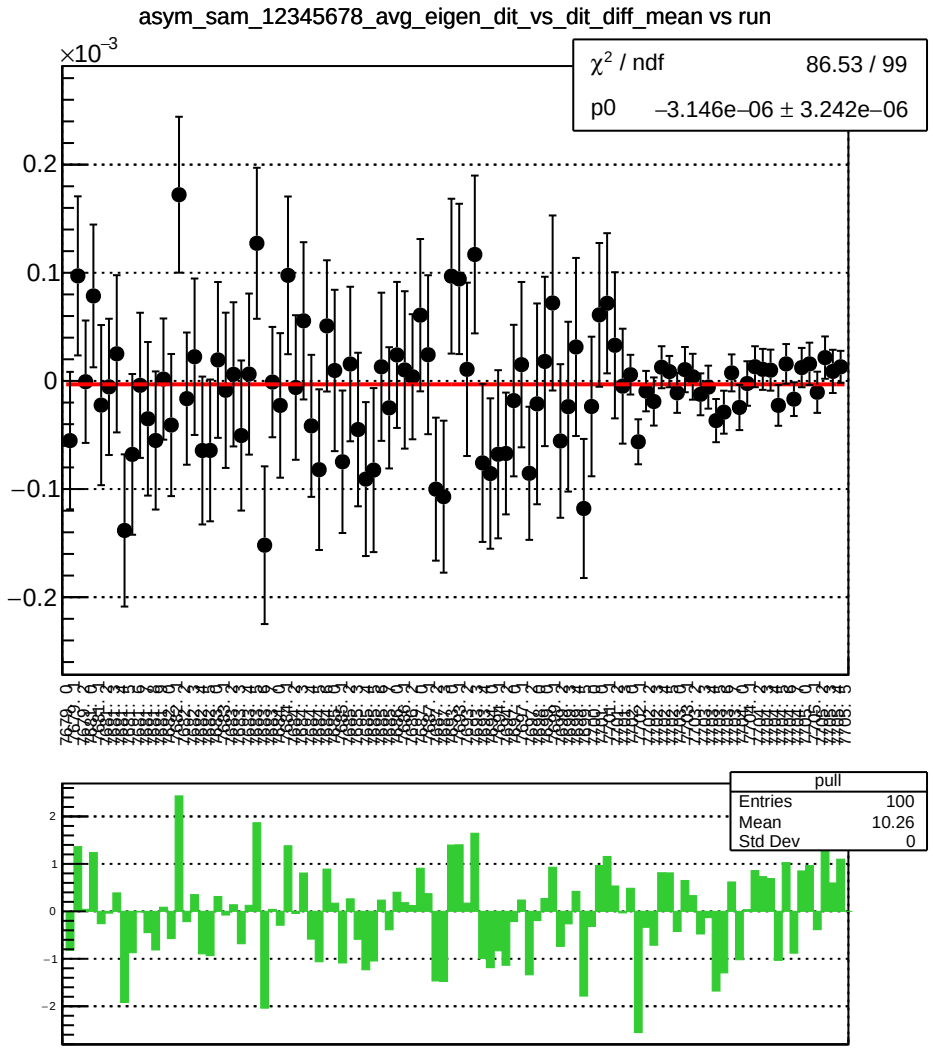

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.209e+06 / 99
p0 6.616e−11 ± 7.816e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

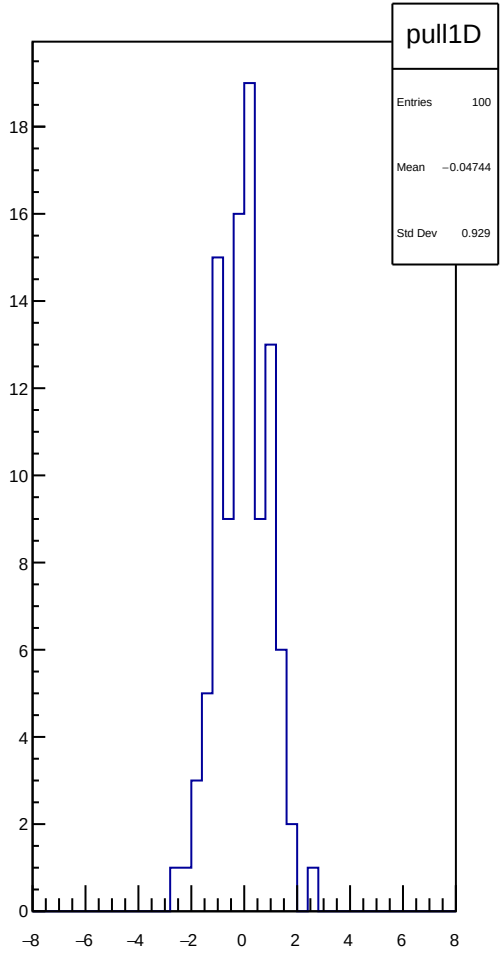

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 99.89 / 99
p0 0.001918 ± 0.04225
pull
Entries 100
Mean −60.96
Std Dev 0
pull1D
Entries 100
Mean −0.02072
Std Dev 0.9992

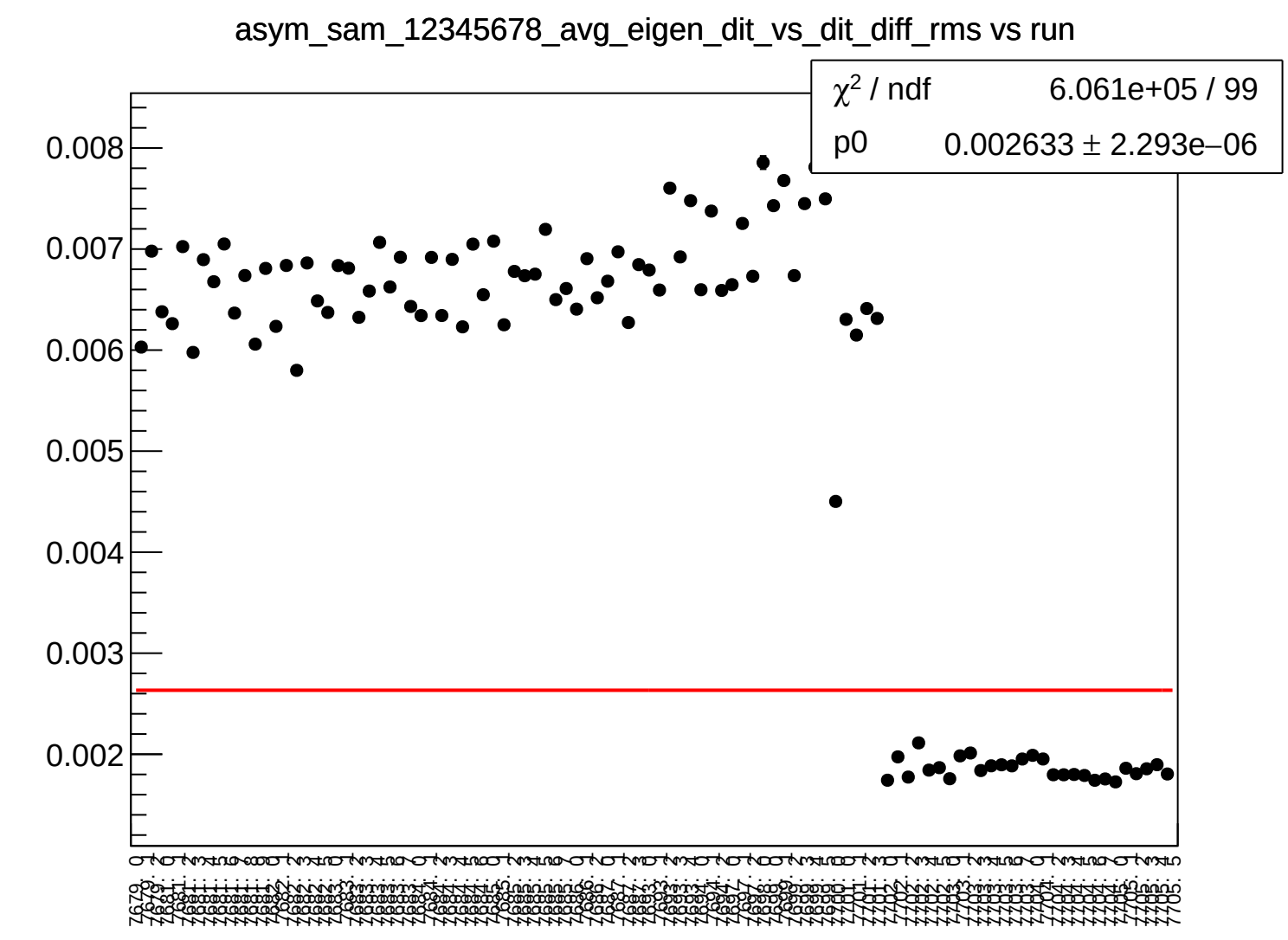

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.147e+04 / 99
p0 40.46 ± 0.02988
350
300
250
200
150
100
50

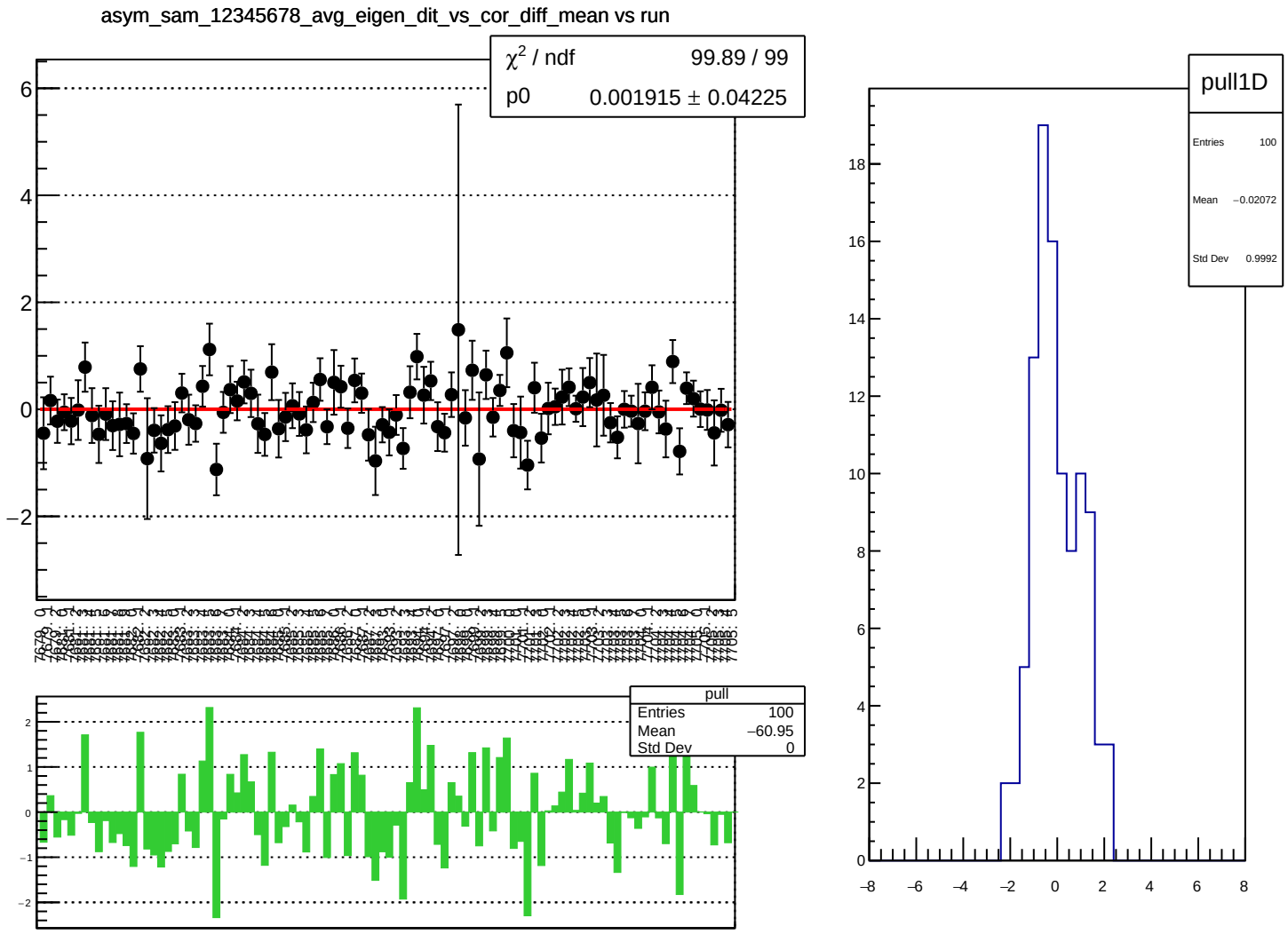

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.89 / 99
p0 0.001918 ± 0.04225
pull
Entries 100
Mean −60.96
Std Dev 0
pull1D
Entries 100
Mean −0.02072
Std Dev 0.9992

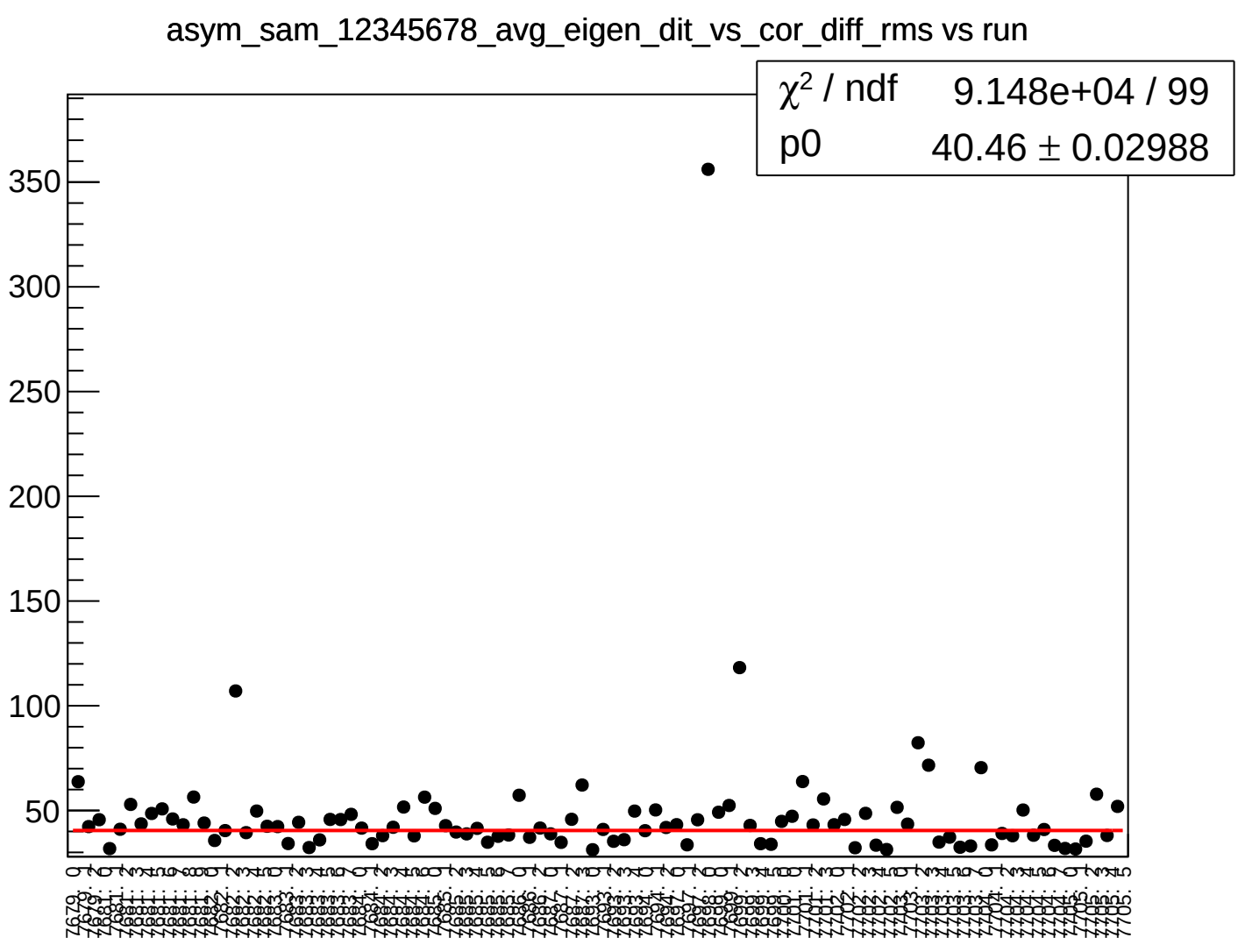

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.147e+04 / 99
p0 40.46 ± 0.02988
350
300
250
200
150
100
50

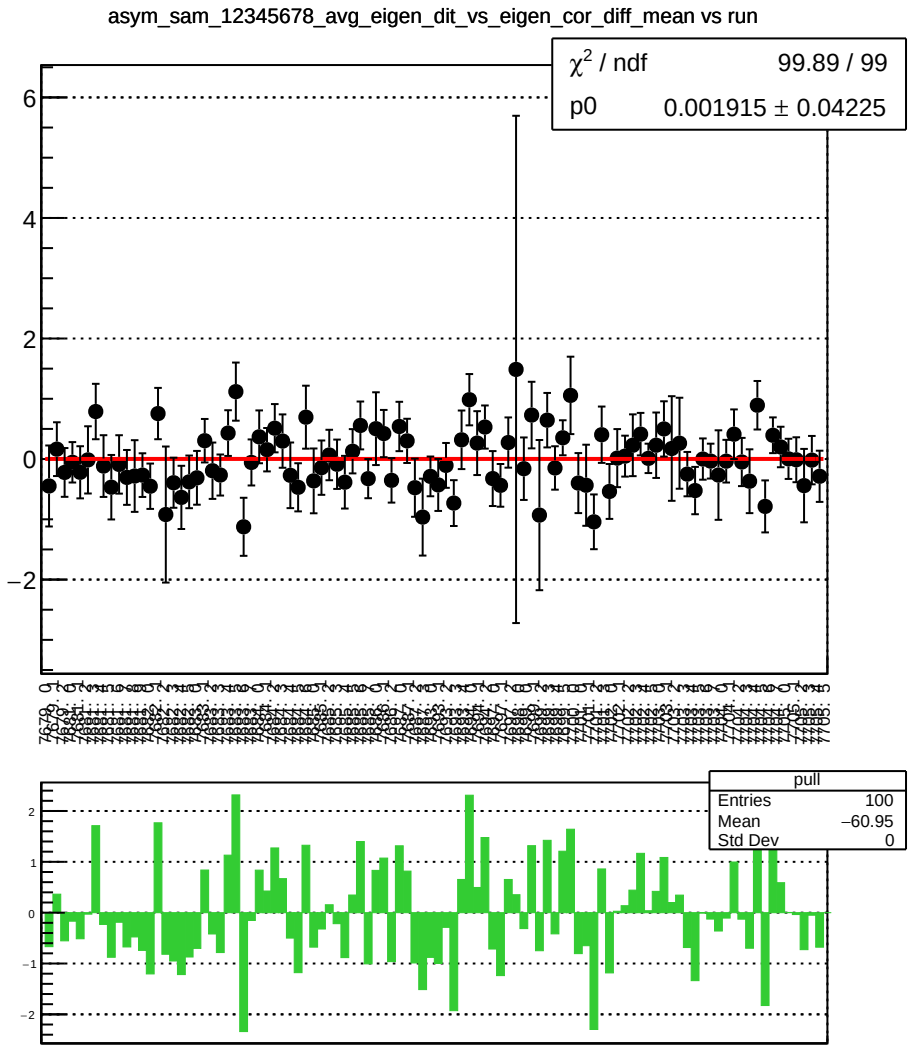

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.53 / 99
p0 −3.146e−06 ± 3.242e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 100
Mean 10.26
Std Dev 0
2
1
0
−1
−2

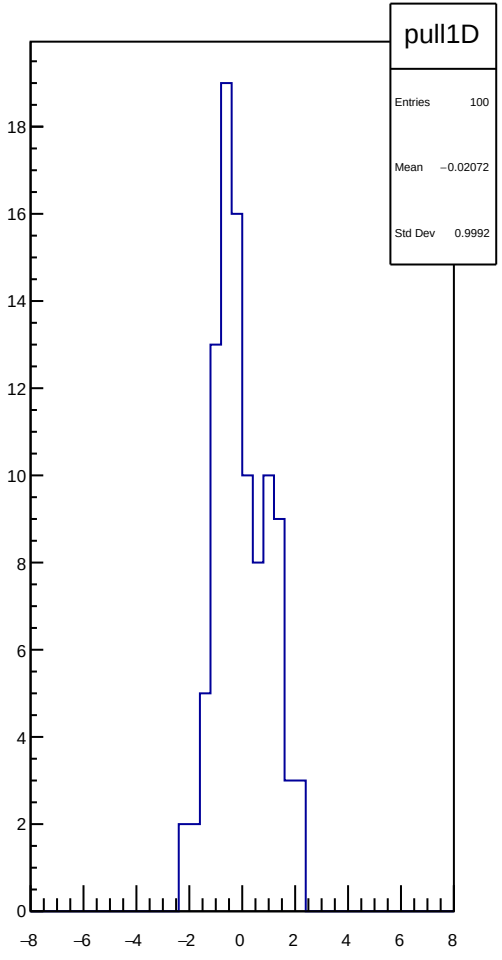

pull1D
Entries 100
Mean −0.04744
Std Dev 0.929
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

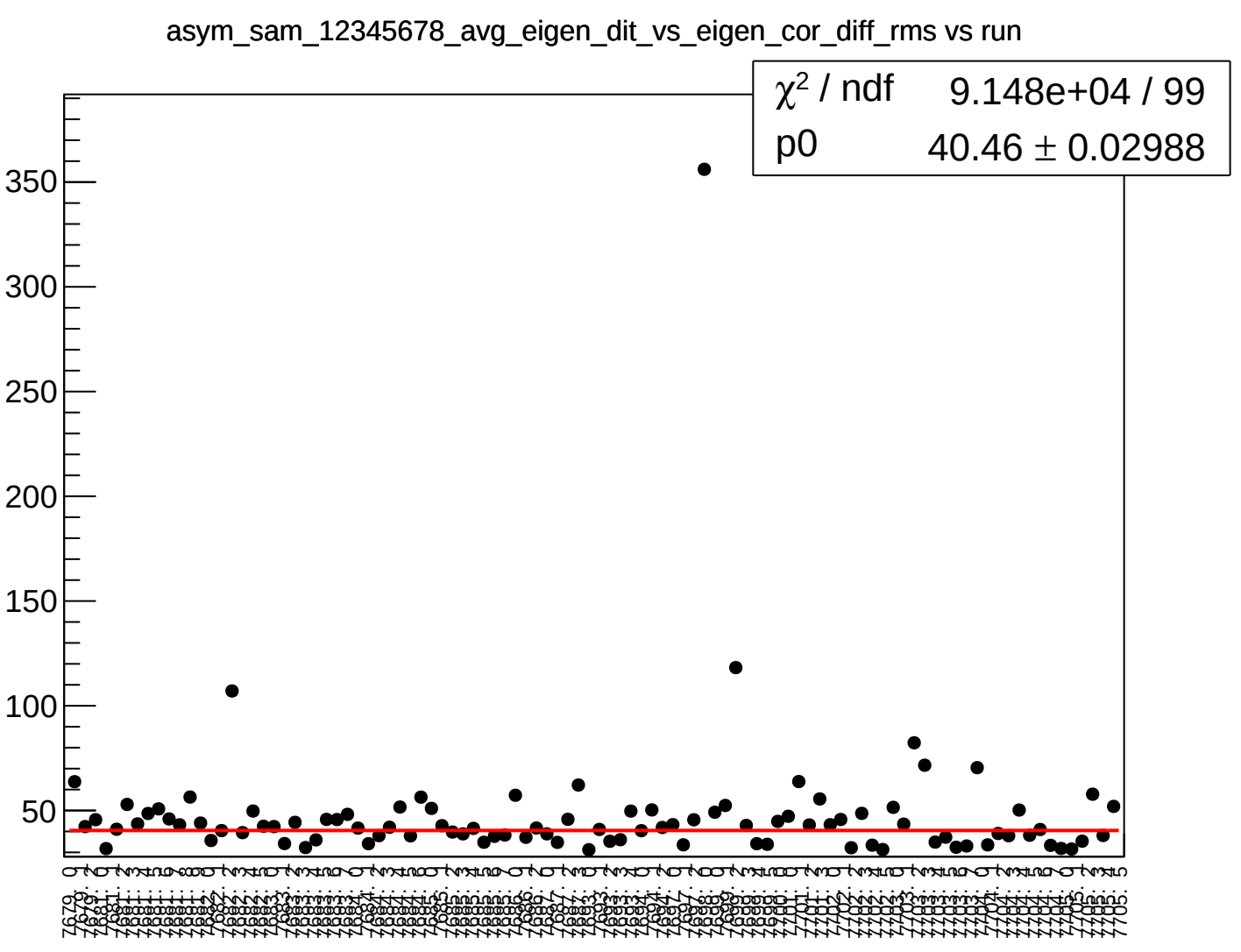

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.061e+05 / 99
p0 0.002633 ± 2.293e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002

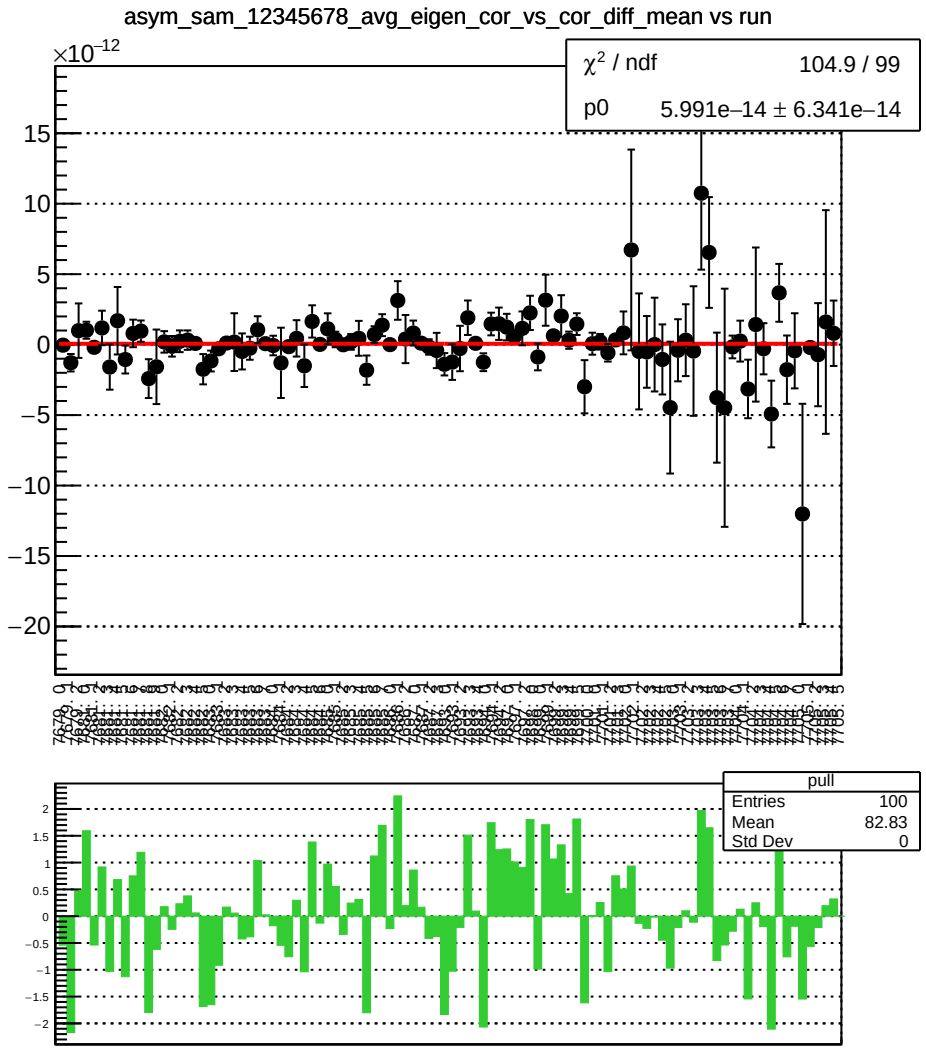

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.89 / 99
p0 0.001915 ± 0.04225
pull
Entries 100
Mean −60.95
Std Dev 0
pull1D
Entries 100
Mean −0.02072
Std Dev 0.9992

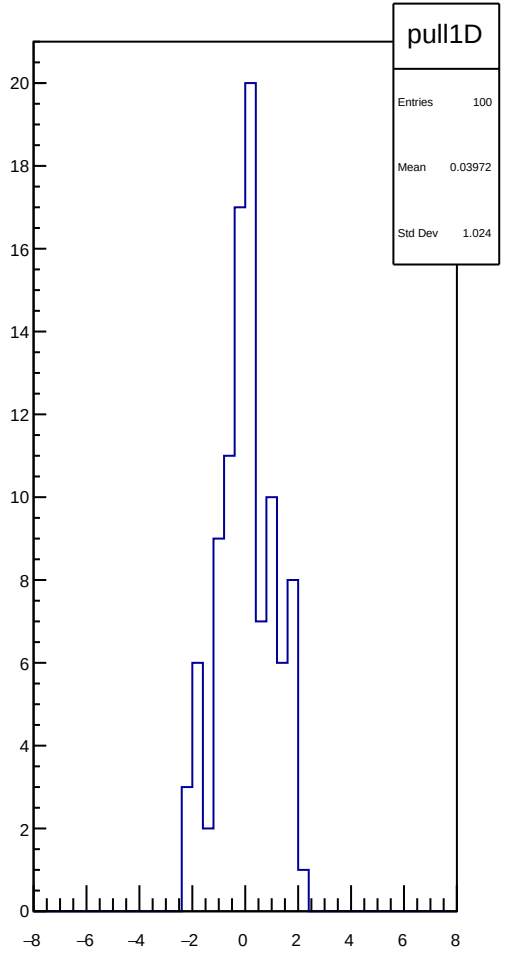

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.148e+04 / 99
p0 40.46 ± 0.02988
350
300
250
200
150
100
50

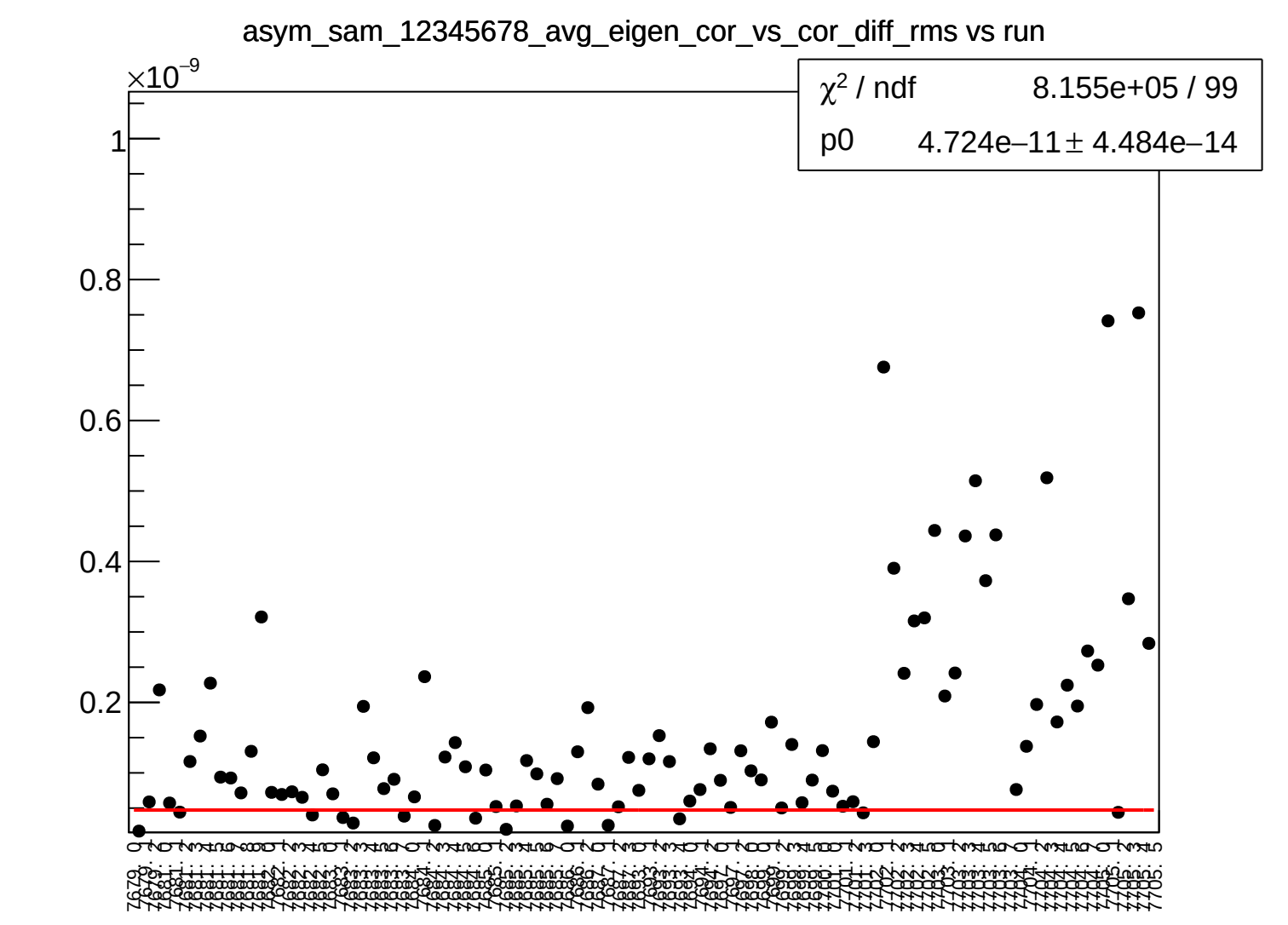

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.89 / 99
p0 0.001915 ± 0.04225
pull
Entries 100
Mean −60.95
Std Dev 0

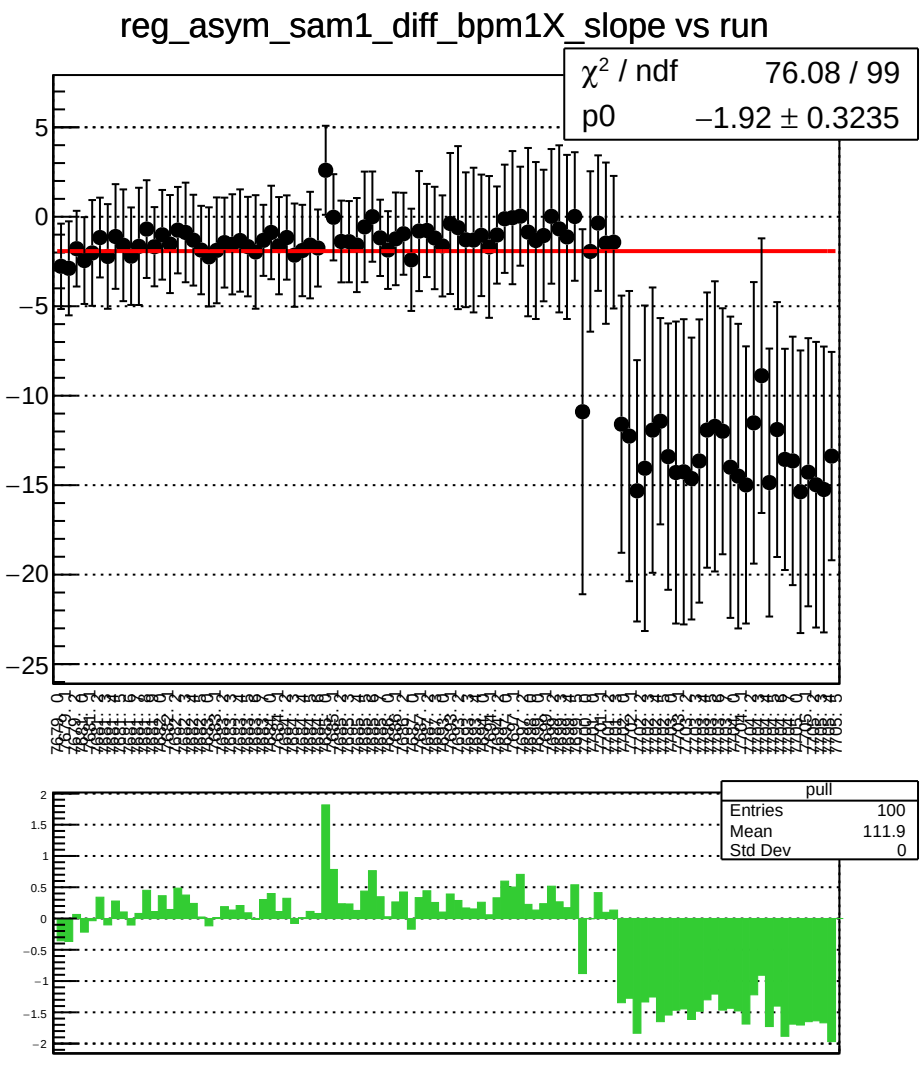

pull1D
Entries 100
Mean −0.02072
Std Dev 0.9992

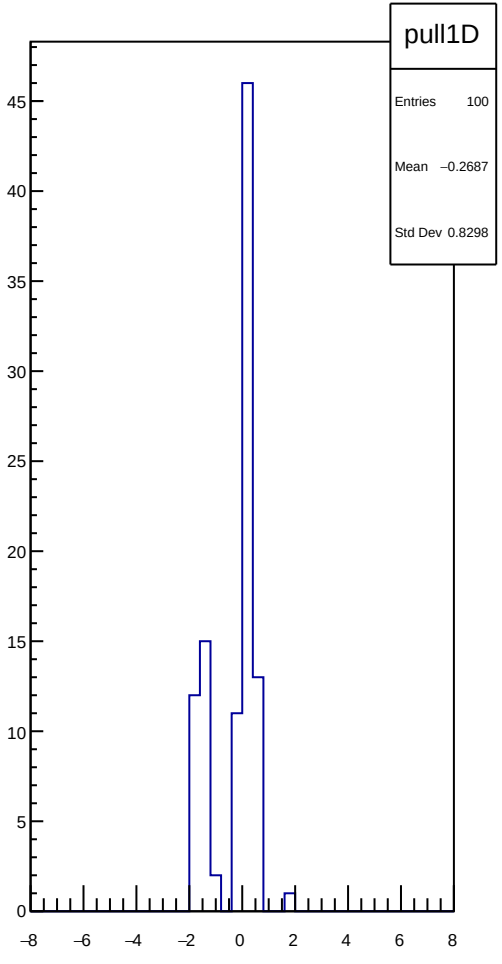

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.148e+04 / 99
p0 40.46 ± 0.02988
350
300
250
200
150
100
50

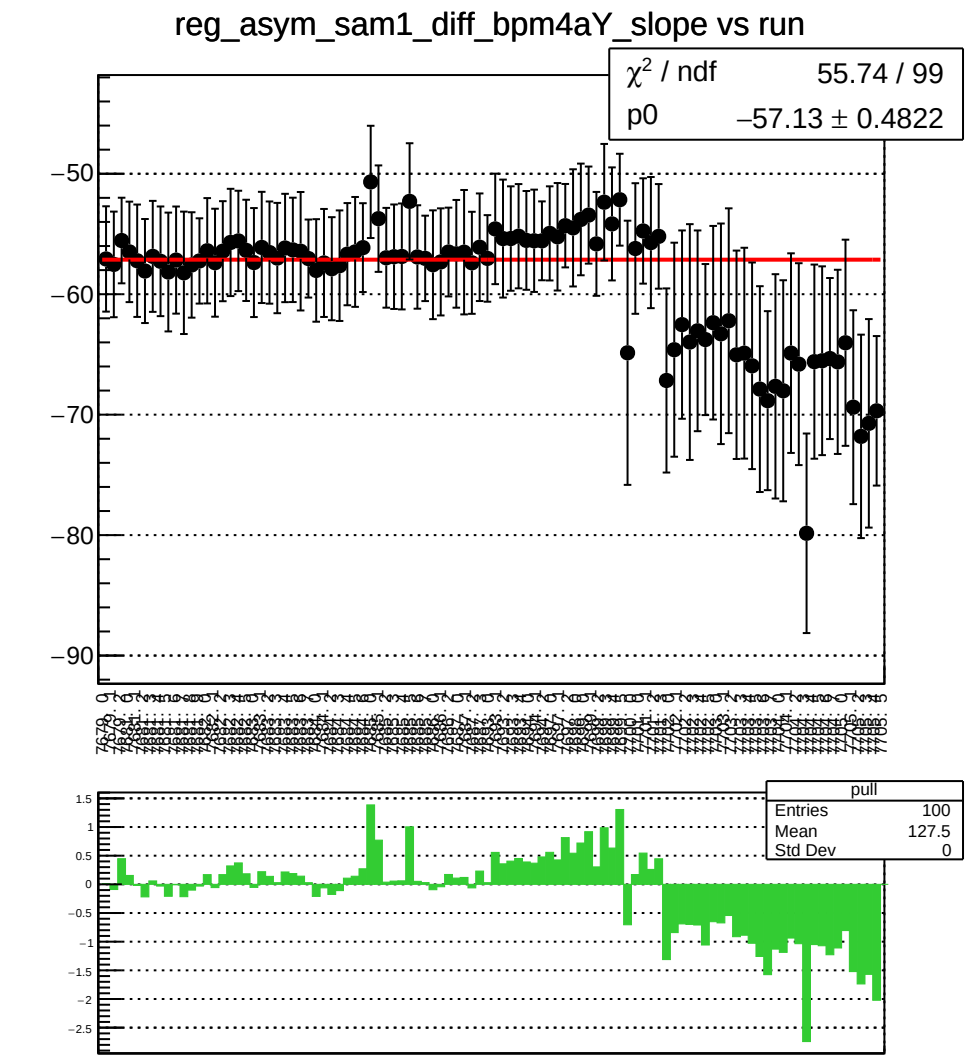

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104.9 / 99
p0 5.991e−14 ± 6.341e−14
pull
Entries 100
Mean 82.83
Std Dev 0

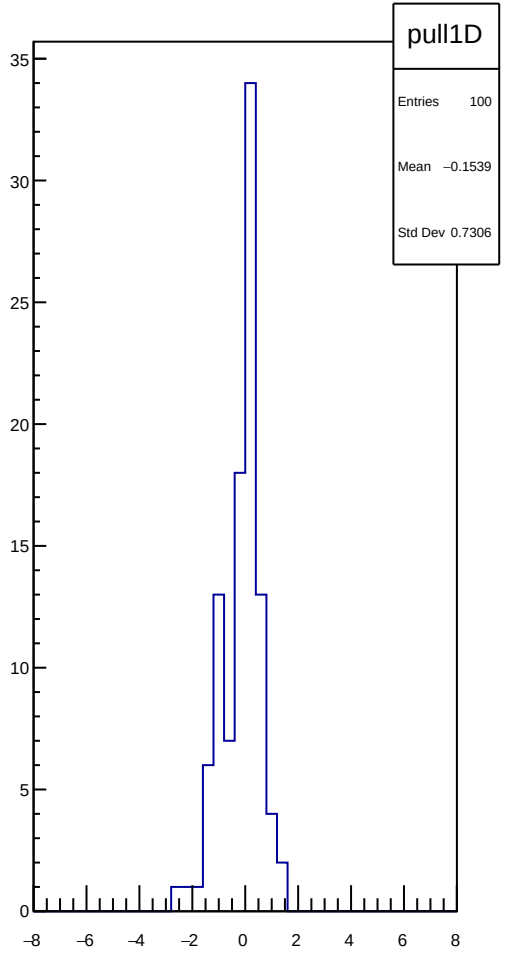

pull1D
Entries 100
Mean 0.03972
Std Dev 1.024

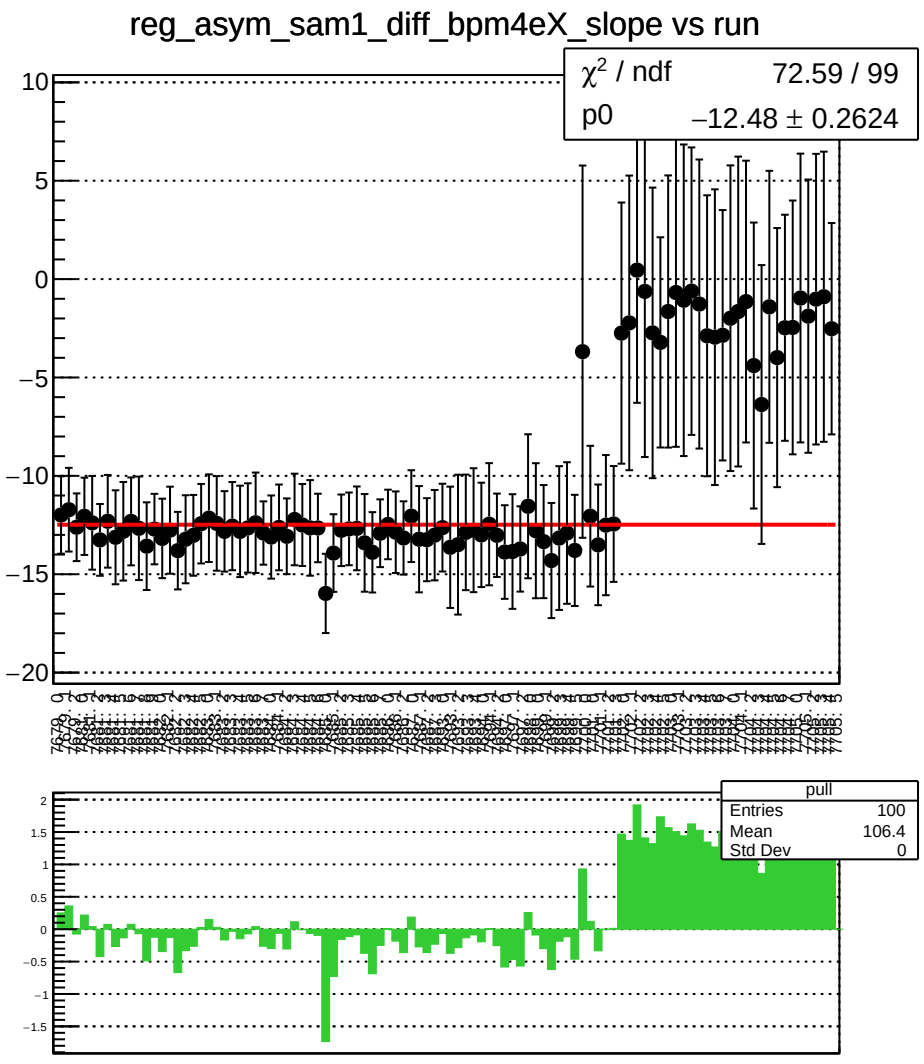

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.155e+05 / 99
p0 4.724e−11 ± 4.484e−14
1
0.8
0.6
0.4
0.2

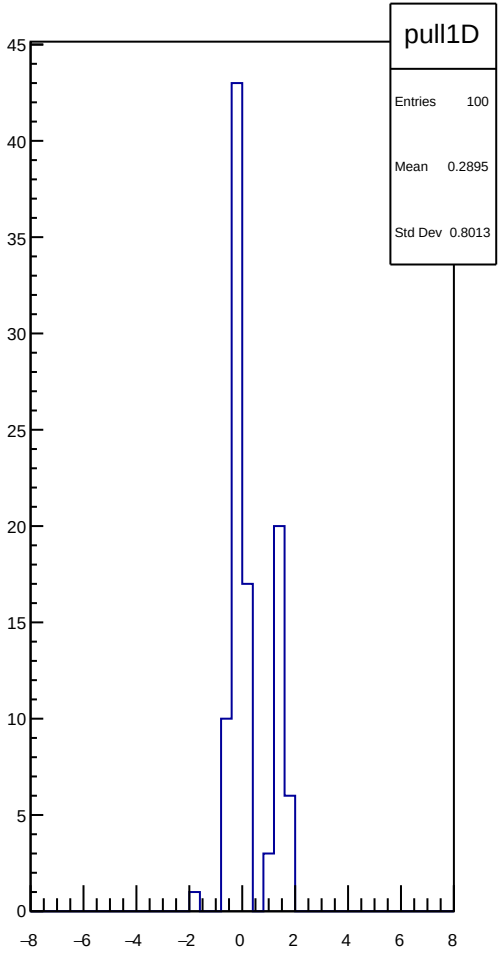

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 76.08 / 99
p0 −1.92 ± 0.3235
pull
Entries 100
Mean 111.9
Std Dev 0

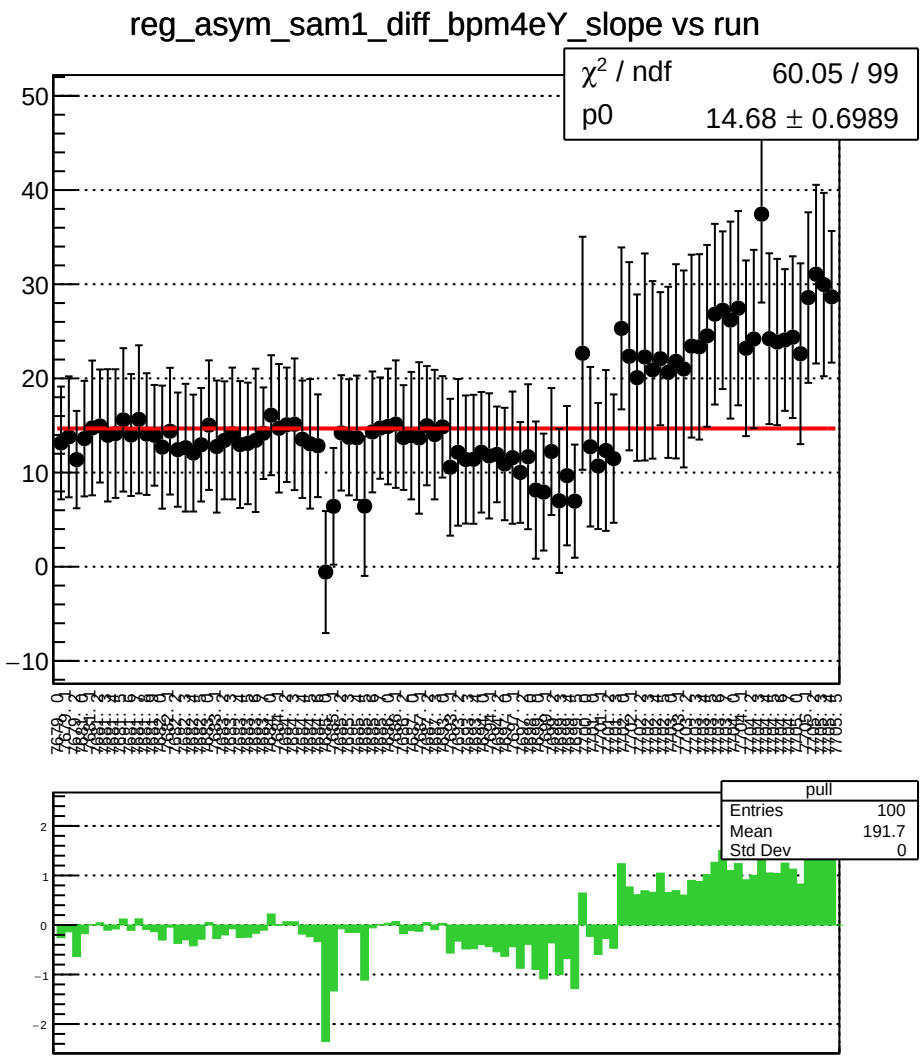

pull1D
Entries 100
Mean −0.2687
Std Dev 0.8298

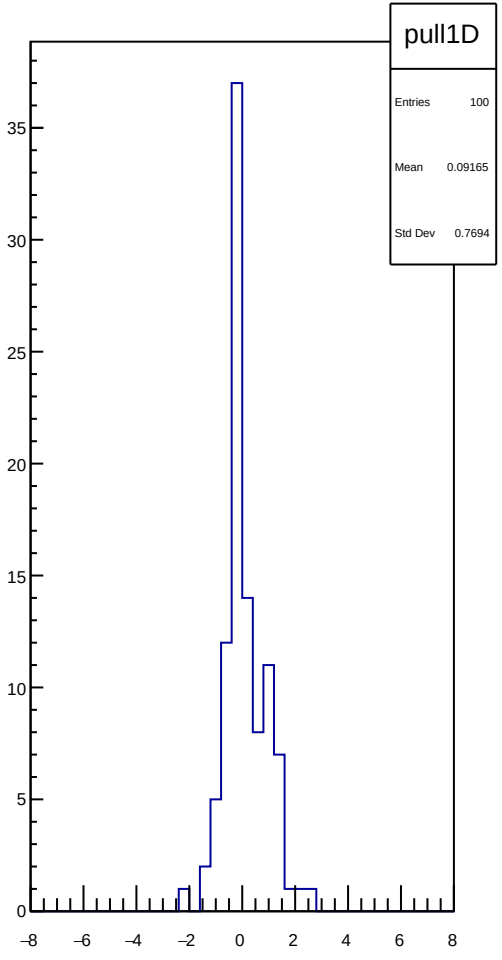

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 55.74 / 99
p0 −57.13 ± 0.4822
−50
−60
−70
−80
−90
pull
Entries 100
Mean 127.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

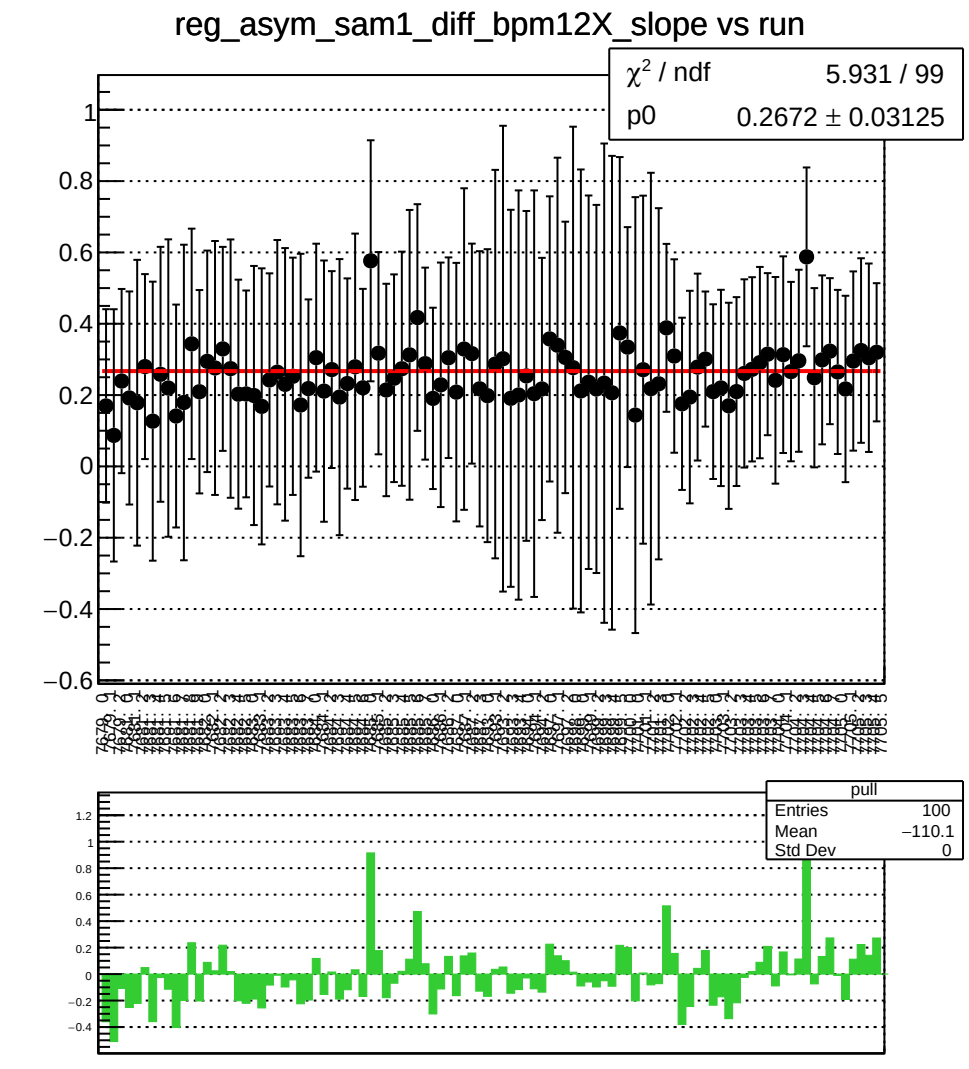

pull1D
Entries 100
Mean −0.1539
Std Dev 0.7306
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

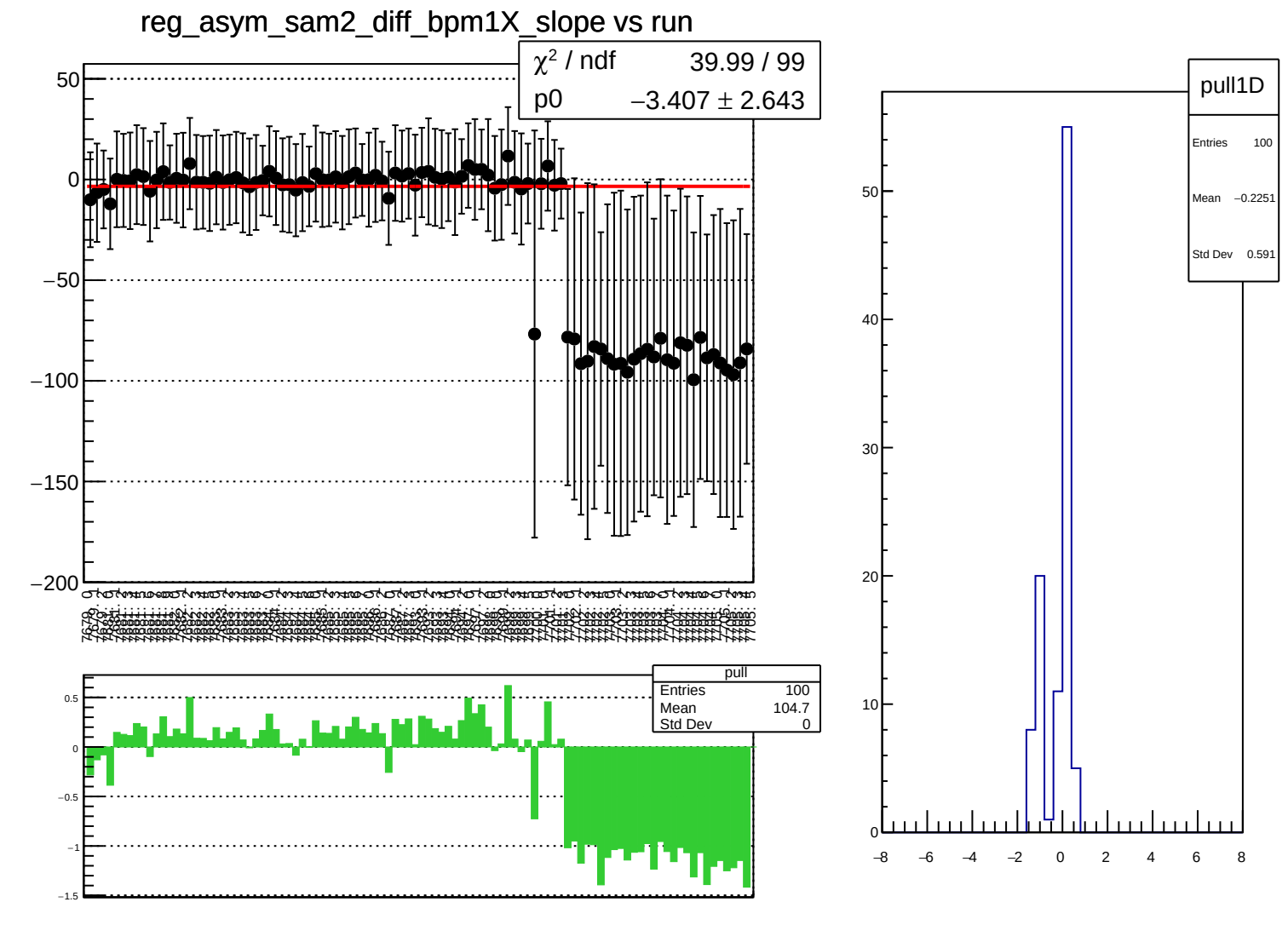

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 72.59 / 99
p0 −12.48 ± 0.2624
pull
Entries 100
Mean 106.4
Std Dev 0

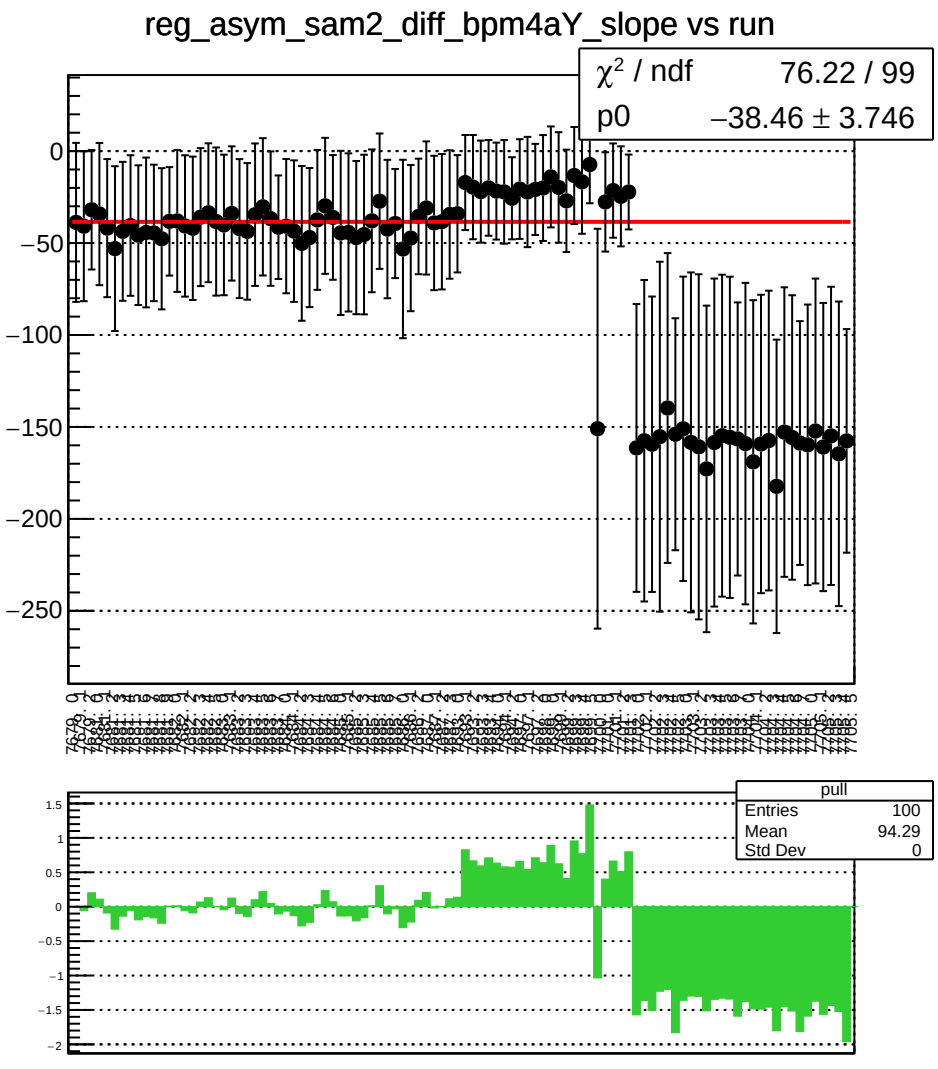

pull1D
Entries 100
Mean 0.2895
Std Dev 0.8013

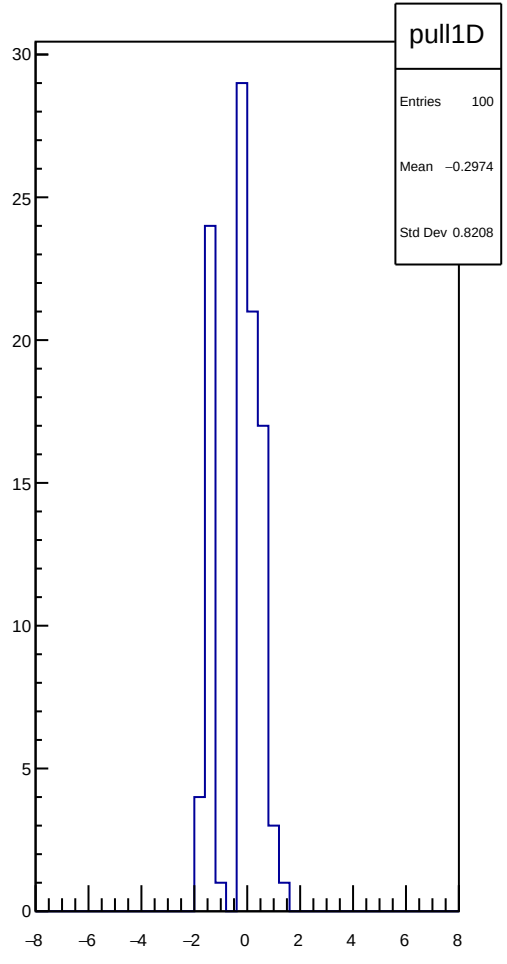

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 60.05 / 99
p0 14.68 ± 0.6989
pull
Entries 100
Mean 191.7
Std Dev 0

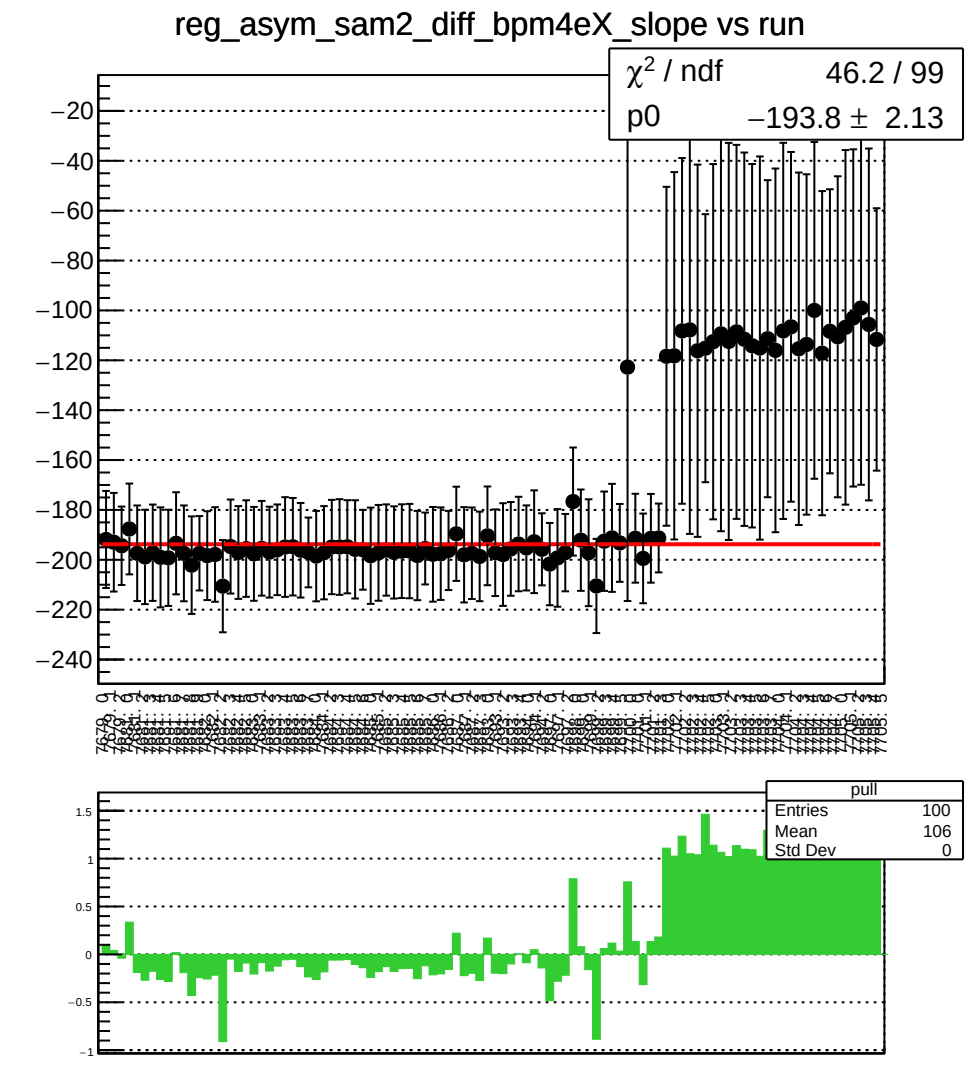

pull1D
Entries 100
Mean 0.09165
Std Dev 0.7694

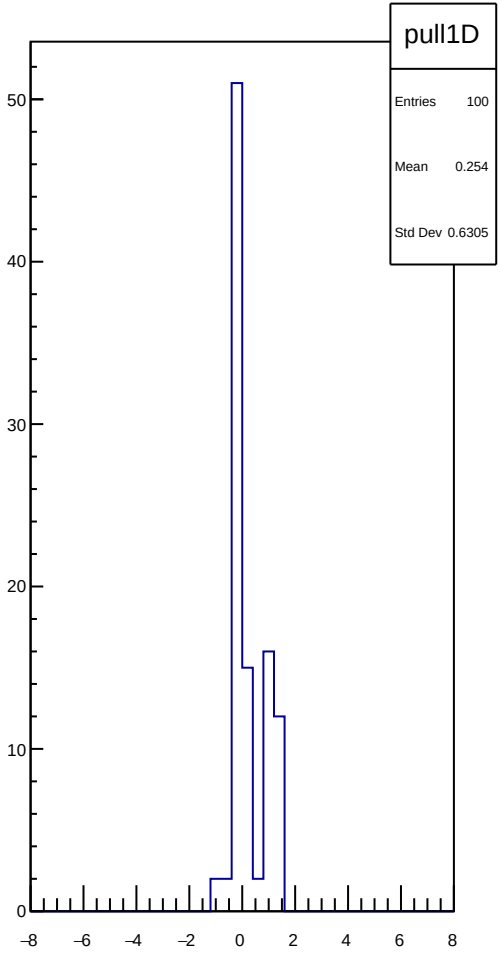

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 5.931 / 99
p0 0.2672 ± 0.03125
pull
Entries 100
Mean −110.1
Std Dev 0
pull1D
Entries 100
Mean −0.01358
Std Dev 0.2432

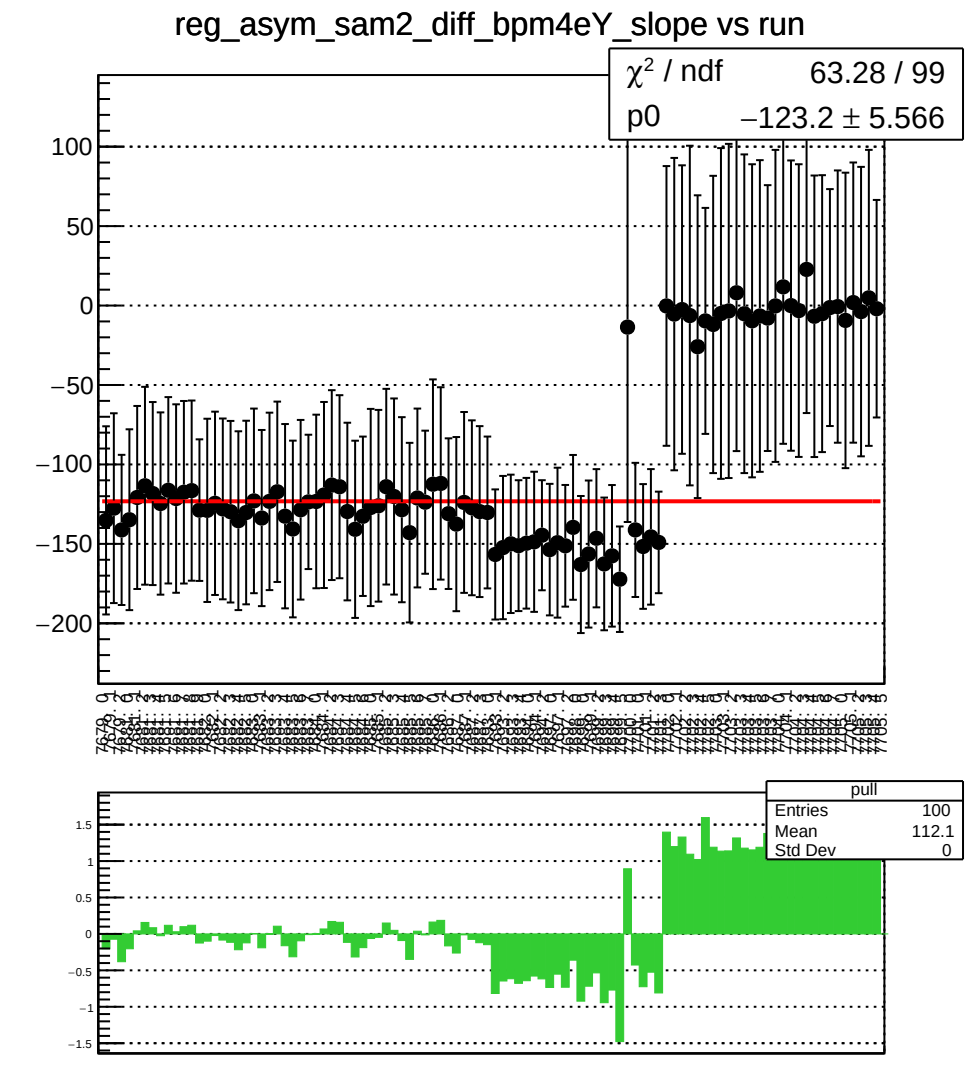

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 39.99 / 99
p0 −3.407 ± 2.643
pull
Entries 100
Mean 104.7
Std Dev 0
pull1D
Entries 100
Mean −0.2251
Std Dev 0.591

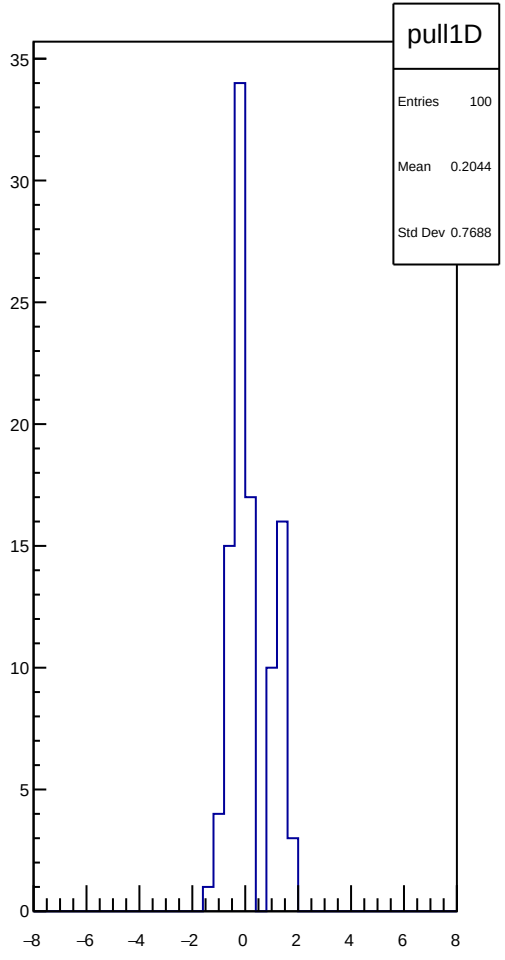

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 76.22 / 99
p0 −38.46 ± 3.746
0
−50
−100
−150
−200
−250
pull
Entries 100
Mean 94.29
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

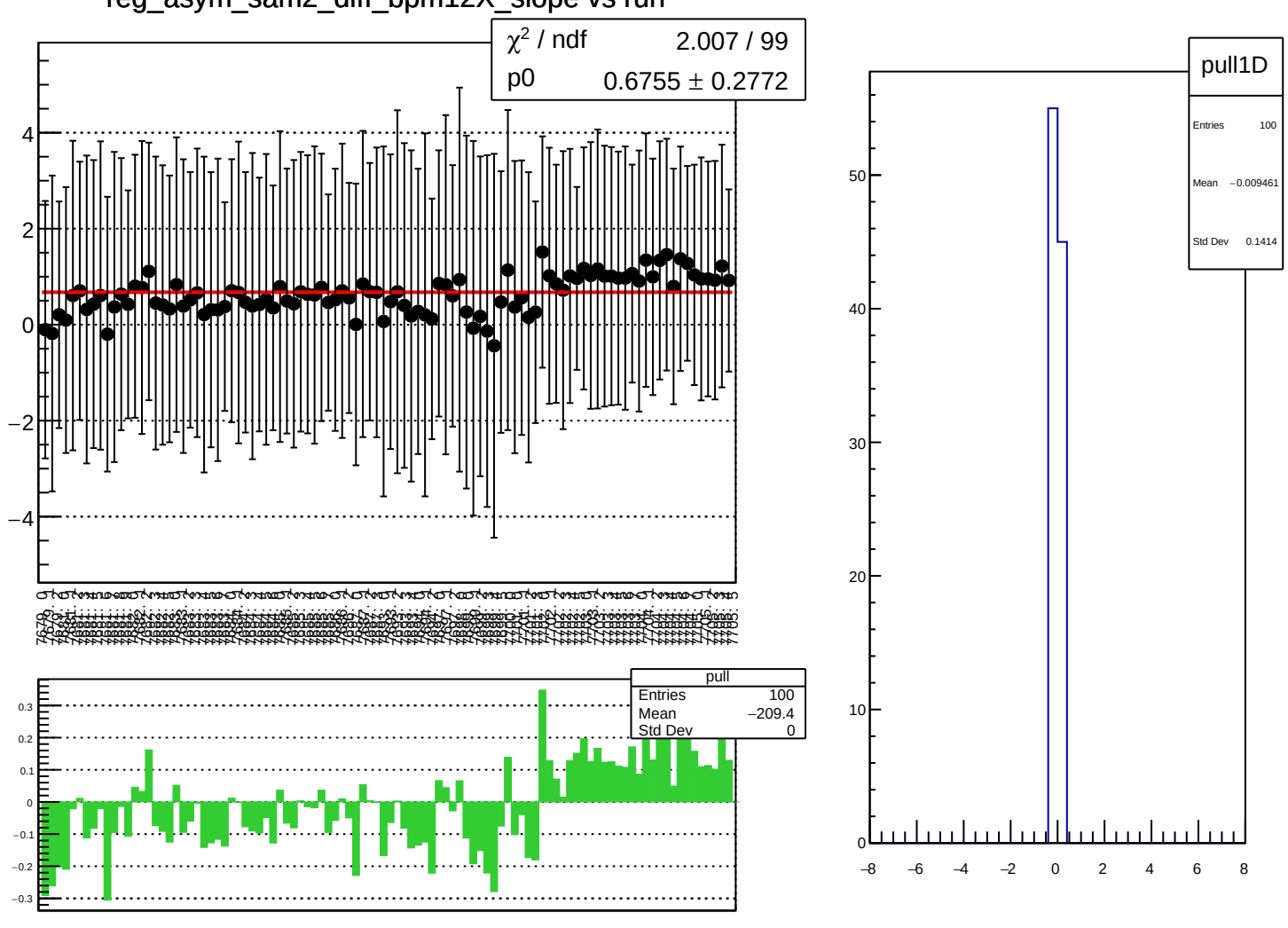

pull1D
Entries 100
Mean −0.2974
Std Dev 0.8208
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

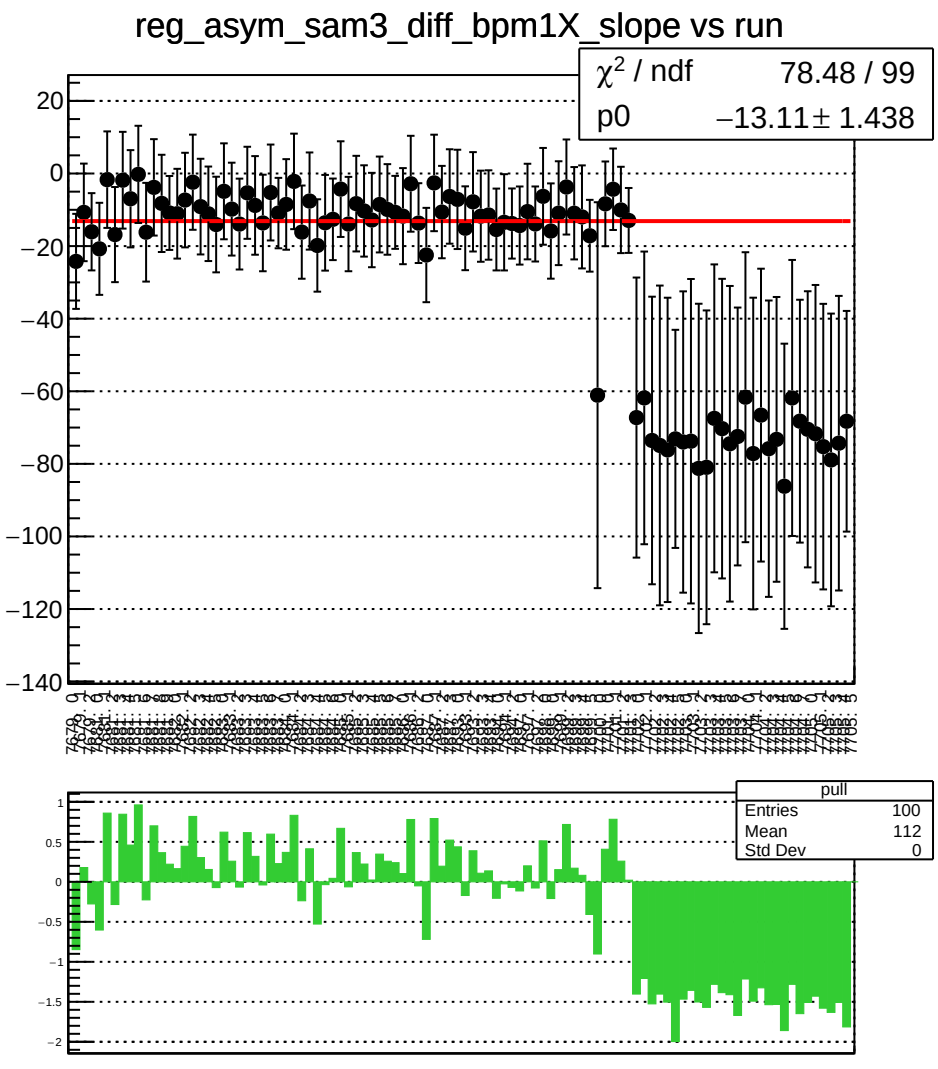

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 46.2 / 99
p0 −193.8 ± 2.13
pull
Entries 100
Mean 106
Std Dev 0

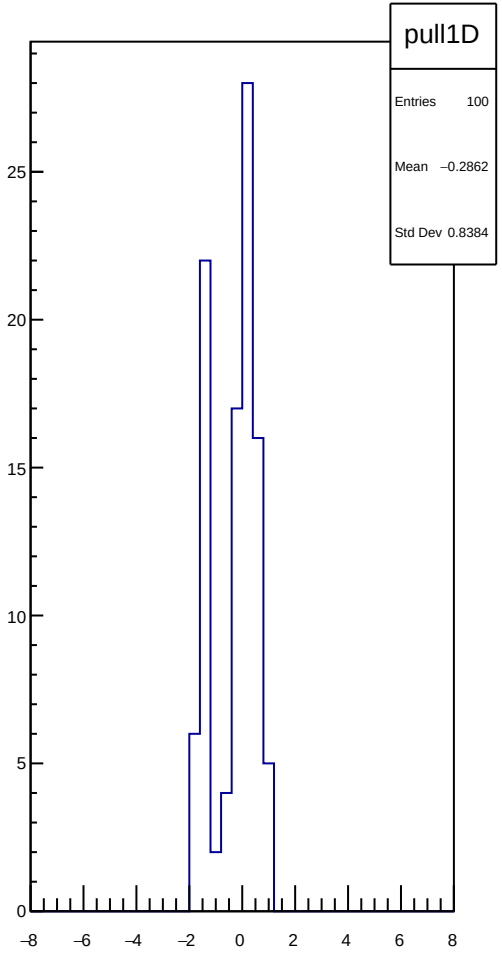

pull1D
Entries 100
Mean 0.254
Std Dev 0.6305

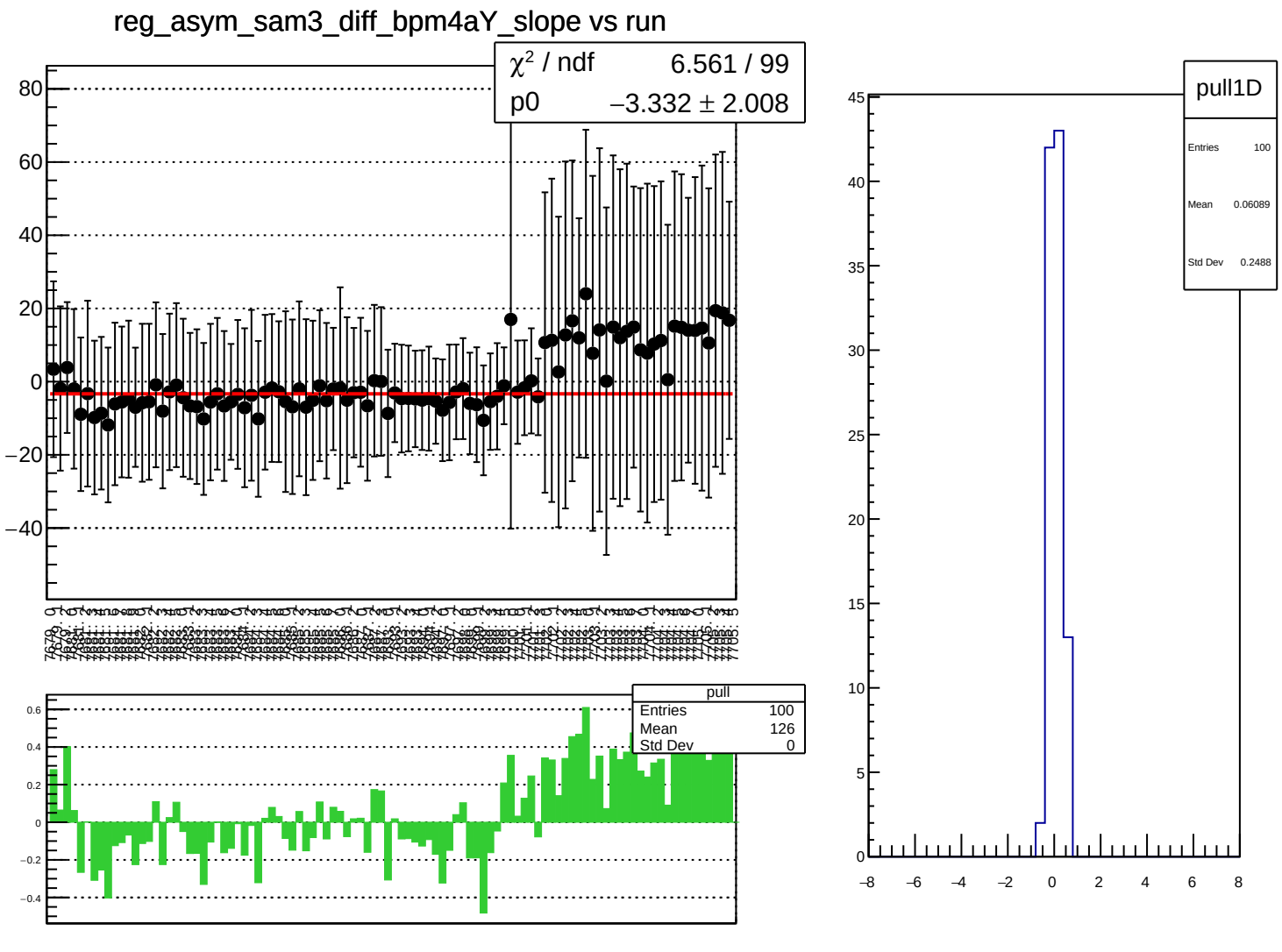

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 63.28 / 99
p0 −123.2 ± 5.566
100
50
0
−50
−100
−150
−200
pull
Entries 100
Mean 112.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

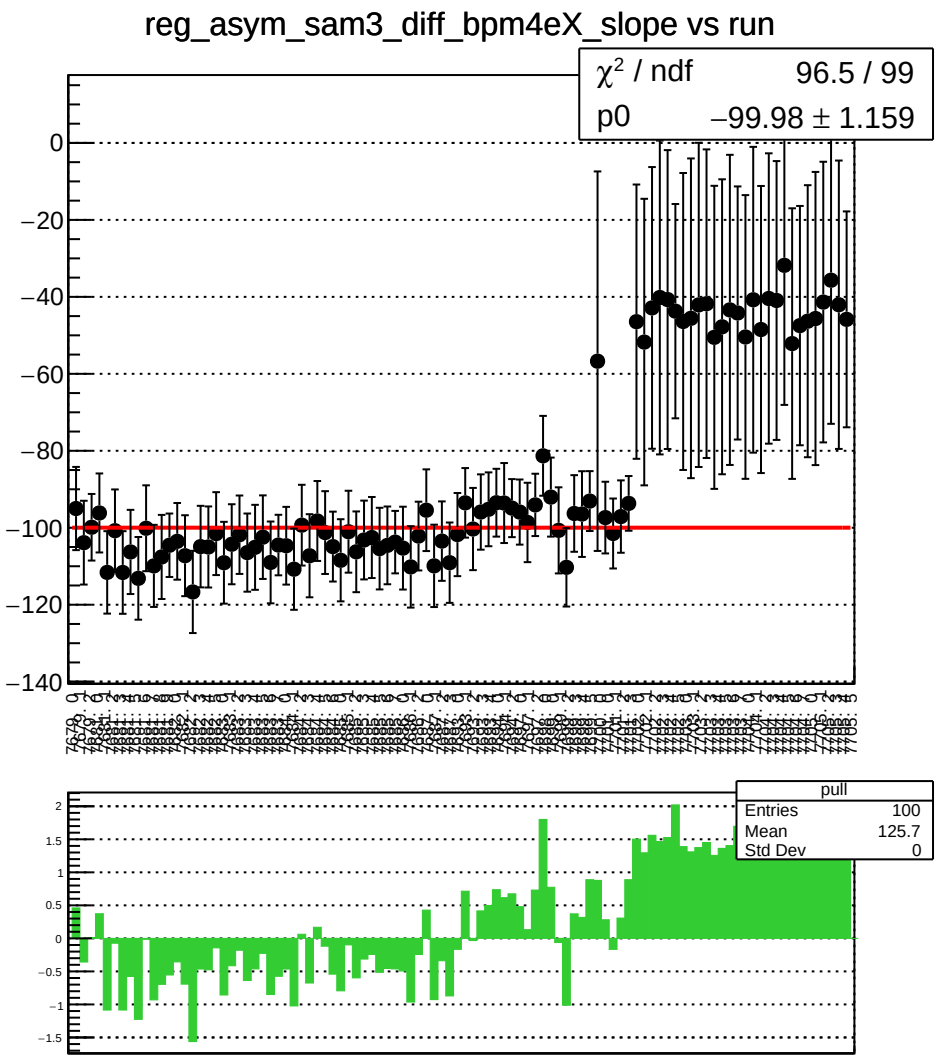

pull1D
Entries 100
Mean 0.2044
Std Dev 0.7688
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

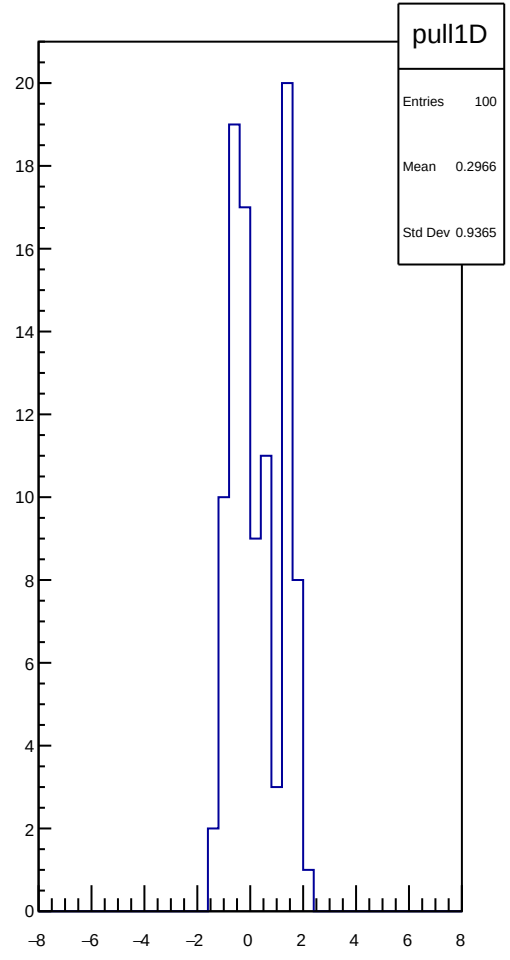

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 2.007 / 99
p0 0.6755 ± 0.2772
pull
Entries 100
Mean −209.4
Std Dev 0
pull1D
Entries 100
Mean −0.009461
Std Dev 0.1414

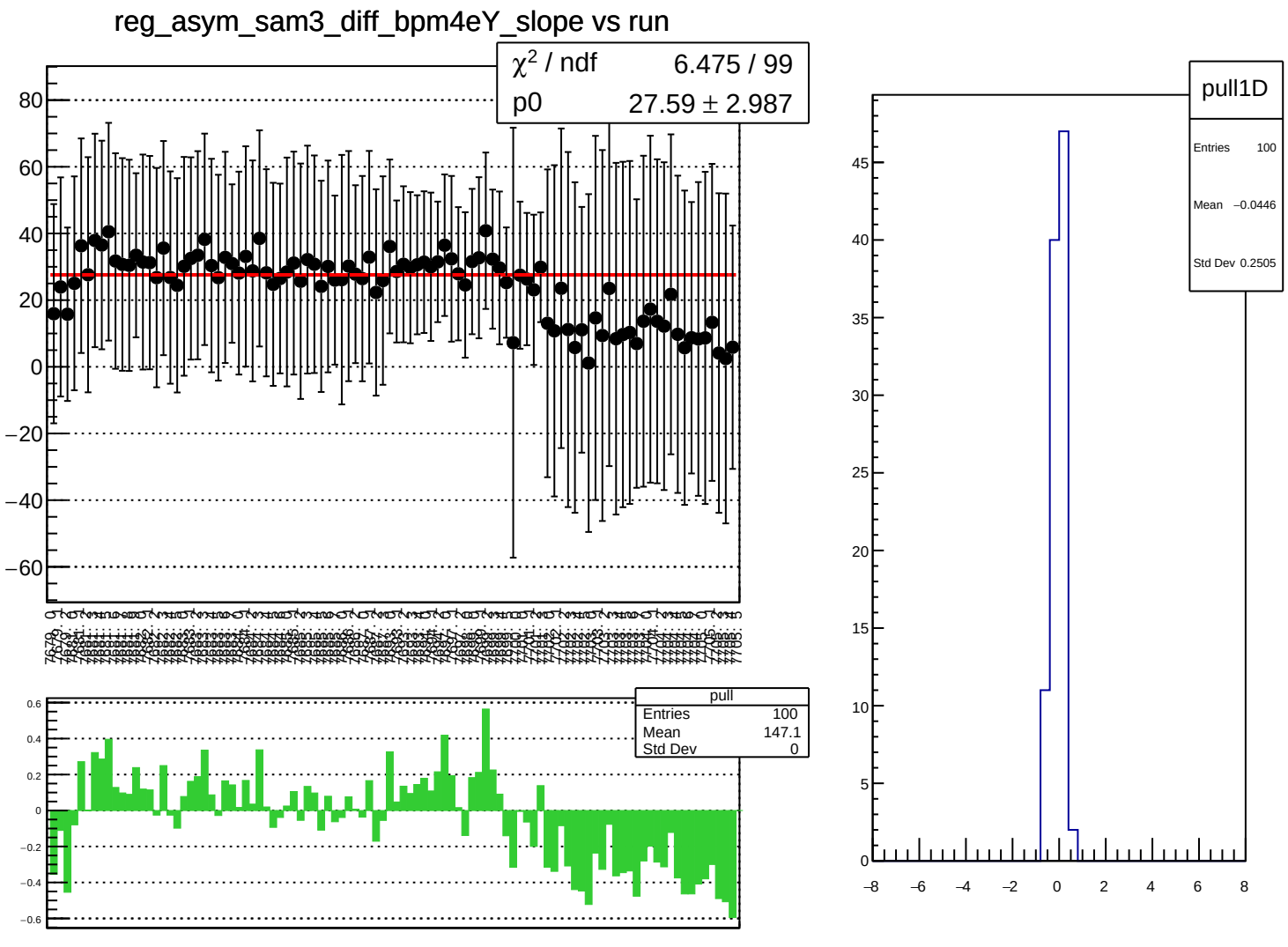

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 78.48 / 99
p0 −13.11± 1.438
pull
Entries 100
Mean 112
Std Dev 0

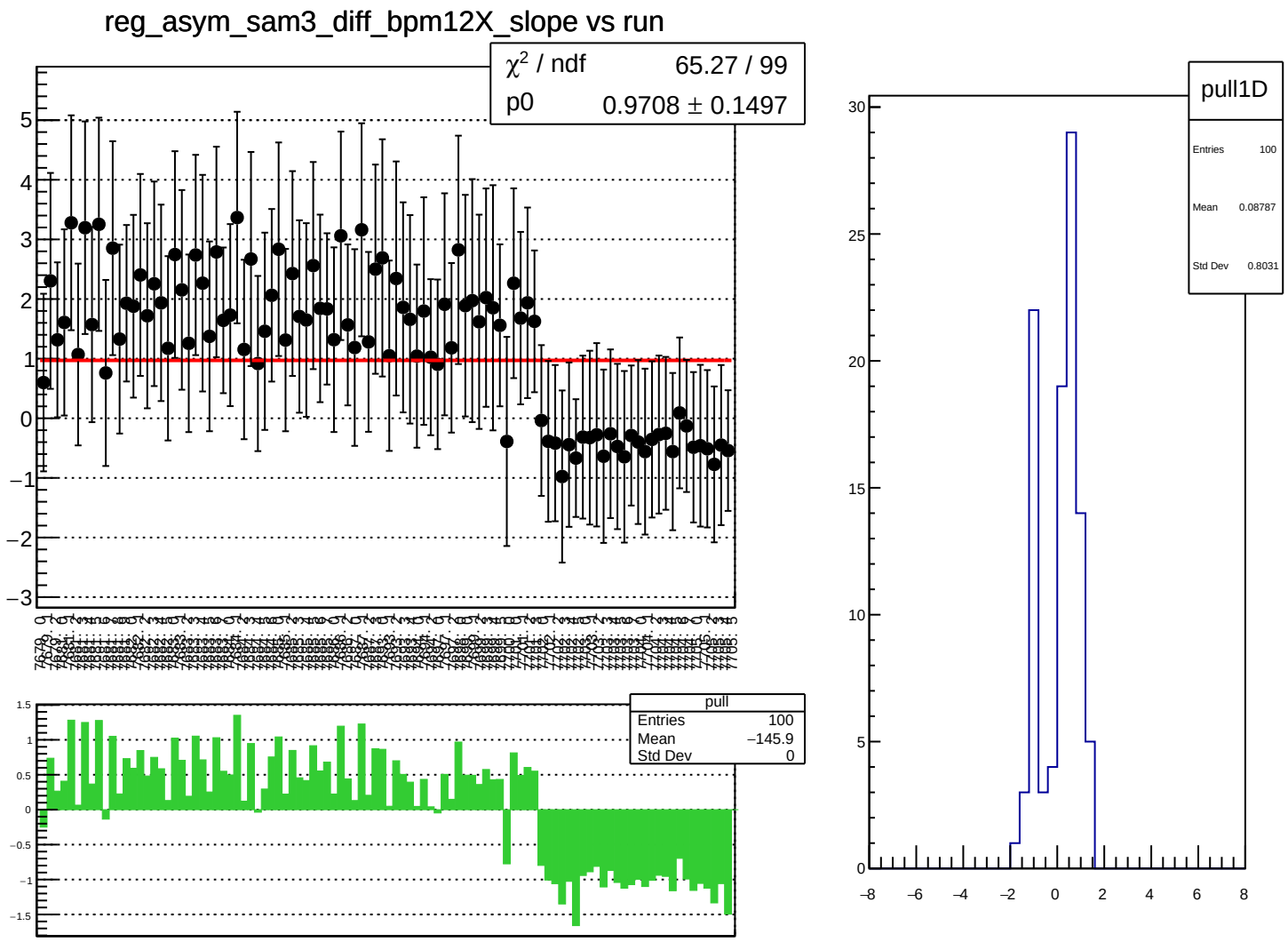

pull1D
Entries 100
Mean −0.2862
Std Dev 0.8384

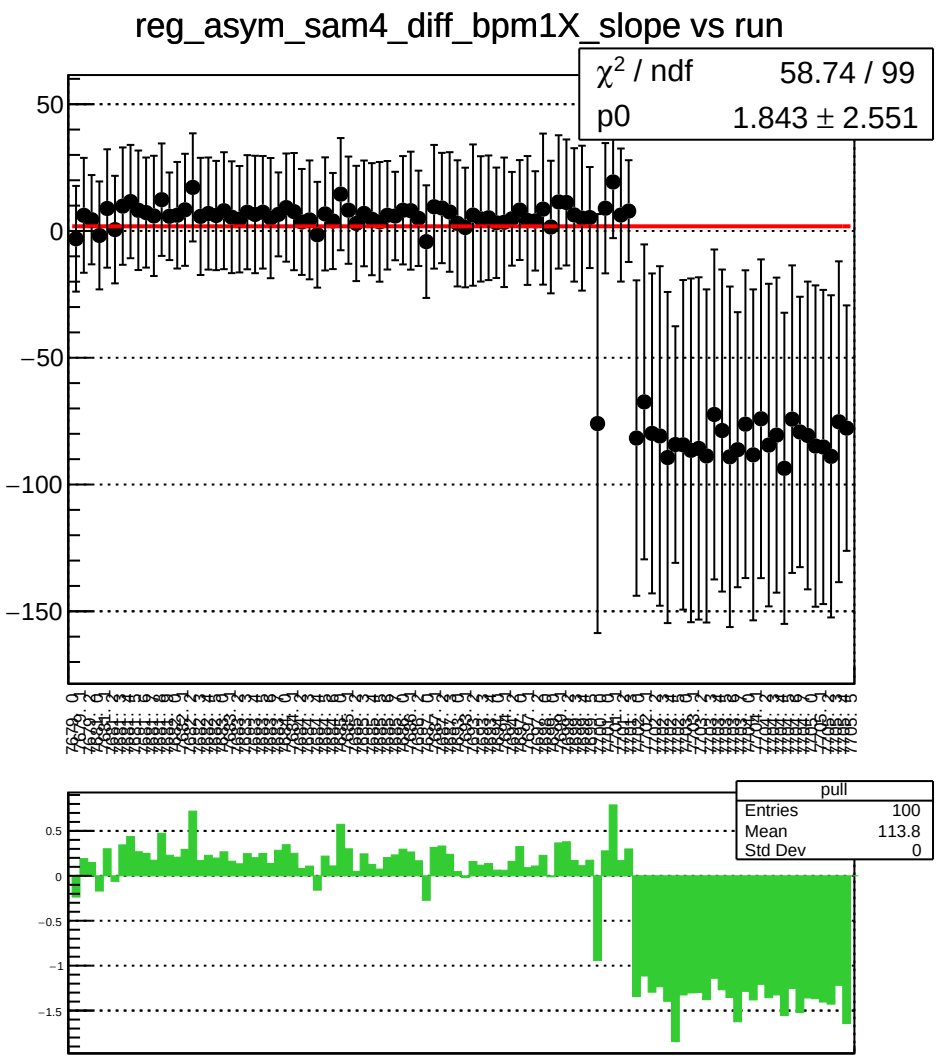

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 6.561 / 99
p0 −3.332 ± 2.008
pull
Entries 100
Mean 126
Std Dev 0
pull1D
Entries 100
Mean 0.06089
Std Dev 0.2488

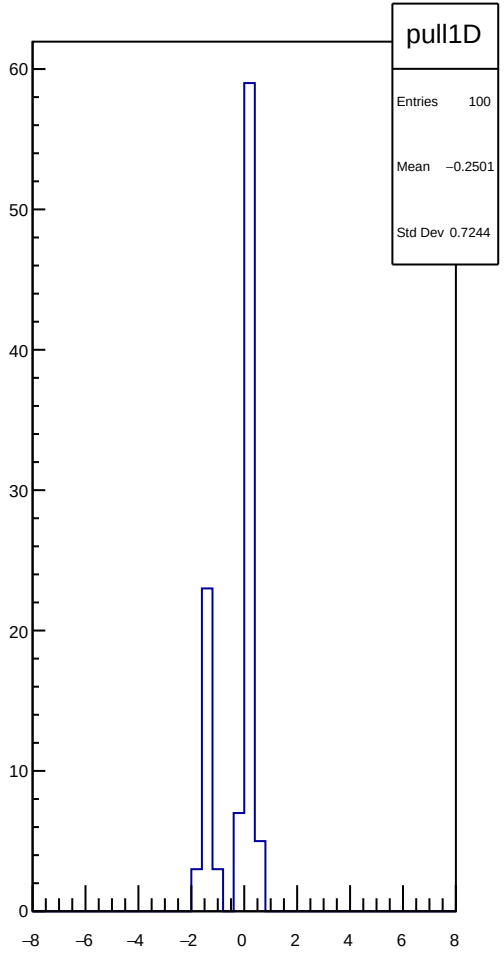

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 96.5 / 99
p0 −99.98 ± 1.159
pull
Entries 100
Mean 125.7
Std Dev 0

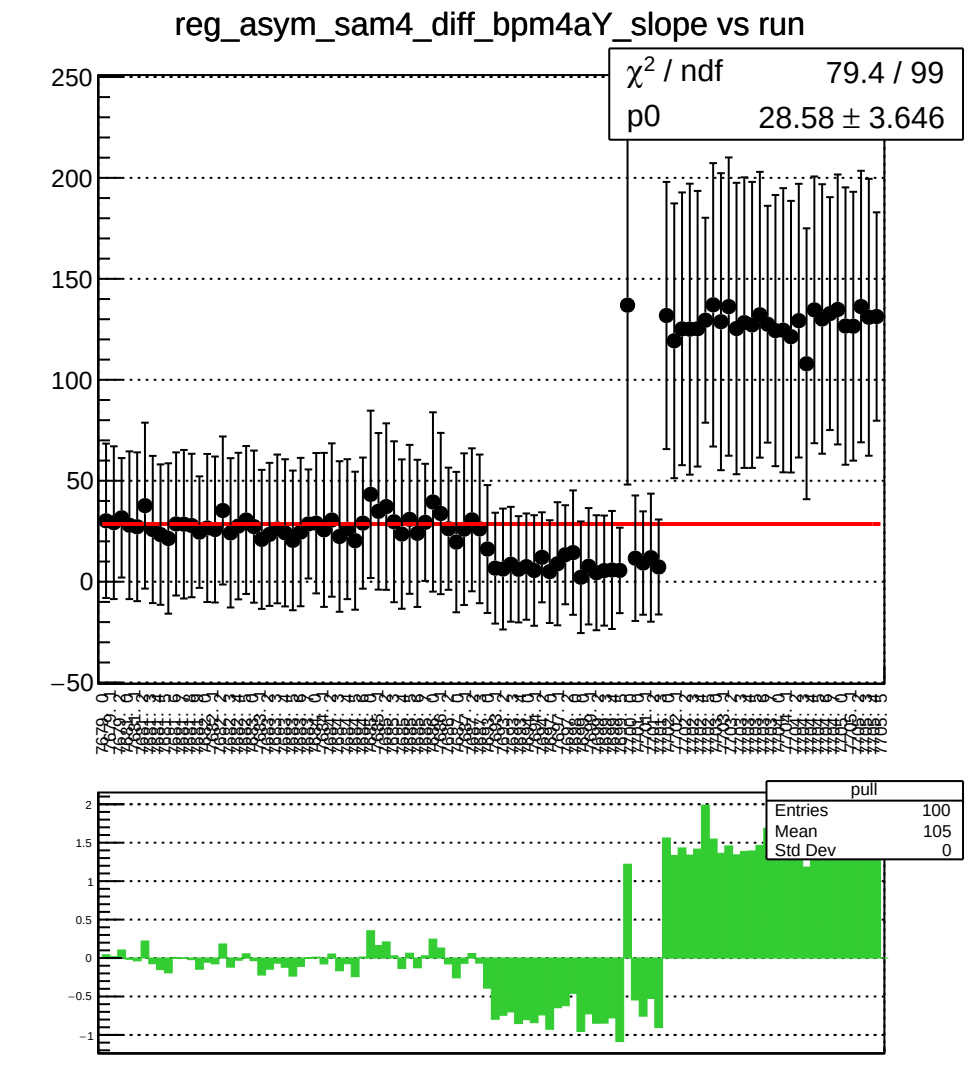

pull1D
Entries 100
Mean 0.2966
Std Dev 0.9365

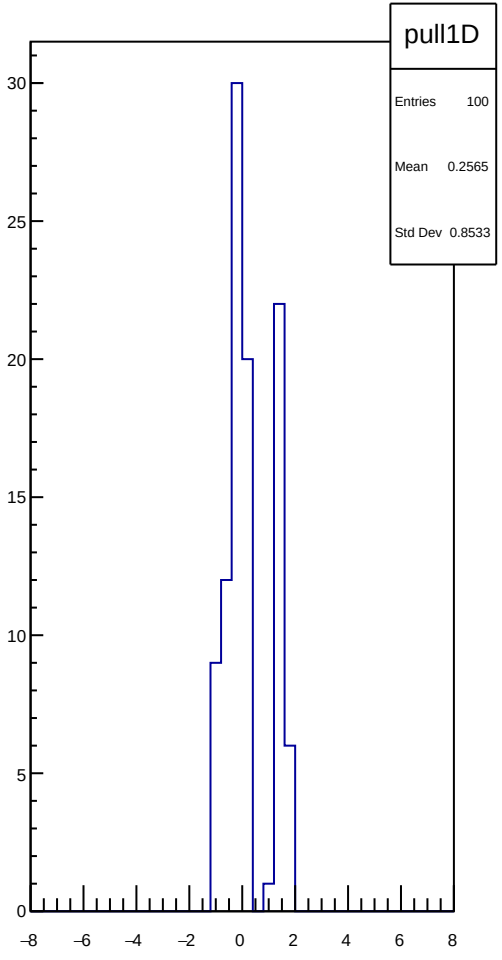

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 6.475 / 99
p0 27.59 ± 2.987
pull
Entries 100
Mean 147.1
Std Dev 0
pull1D
Entries 100
Mean −0.0446
Std Dev 0.2505

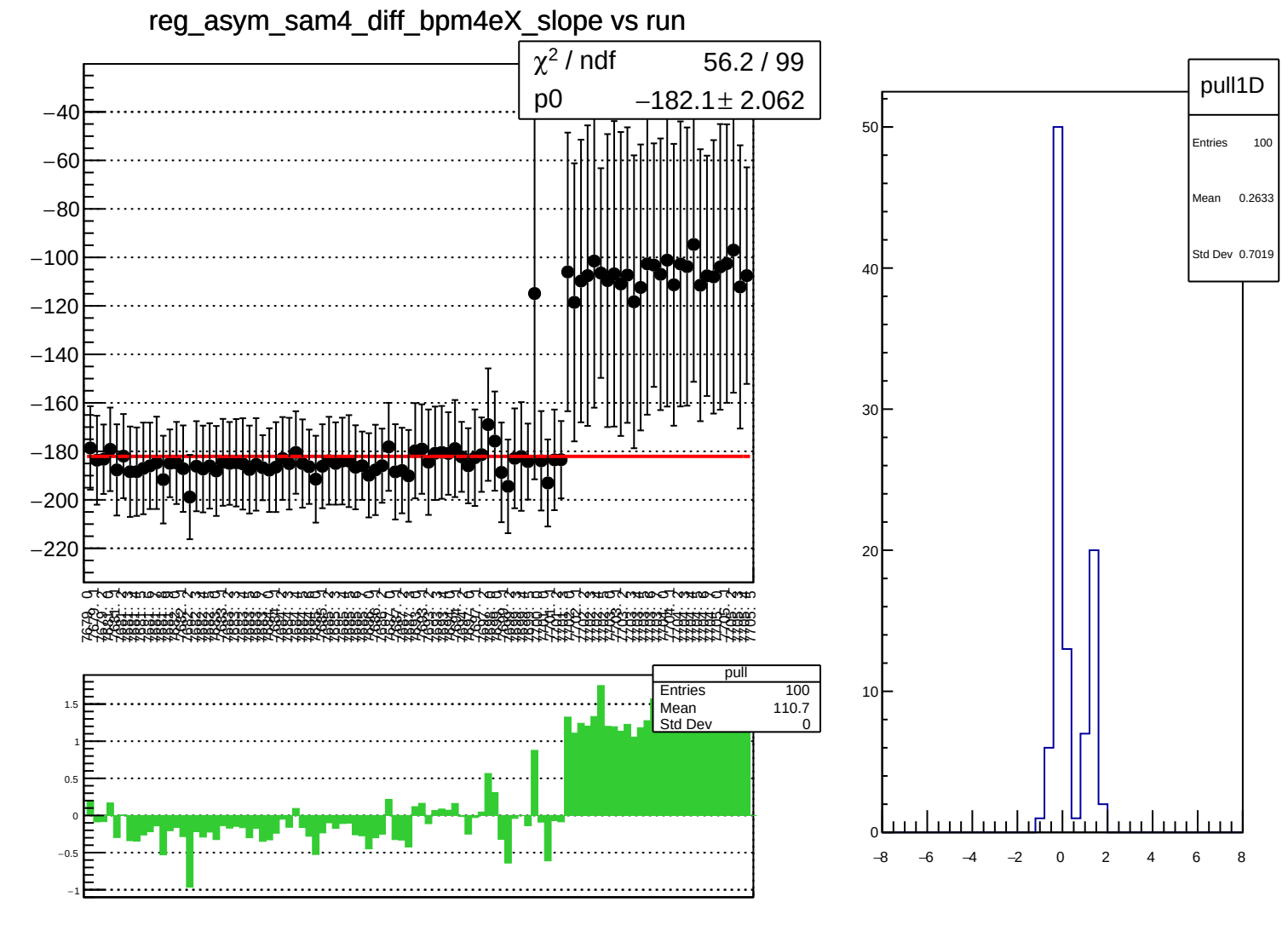

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 65.27 / 99
p0 0.9708 ± 0.1497
pull
Entries 100
Mean −145.9
Std Dev 0
pull1D
Entries 100
Mean 0.08787
Std Dev 0.8031

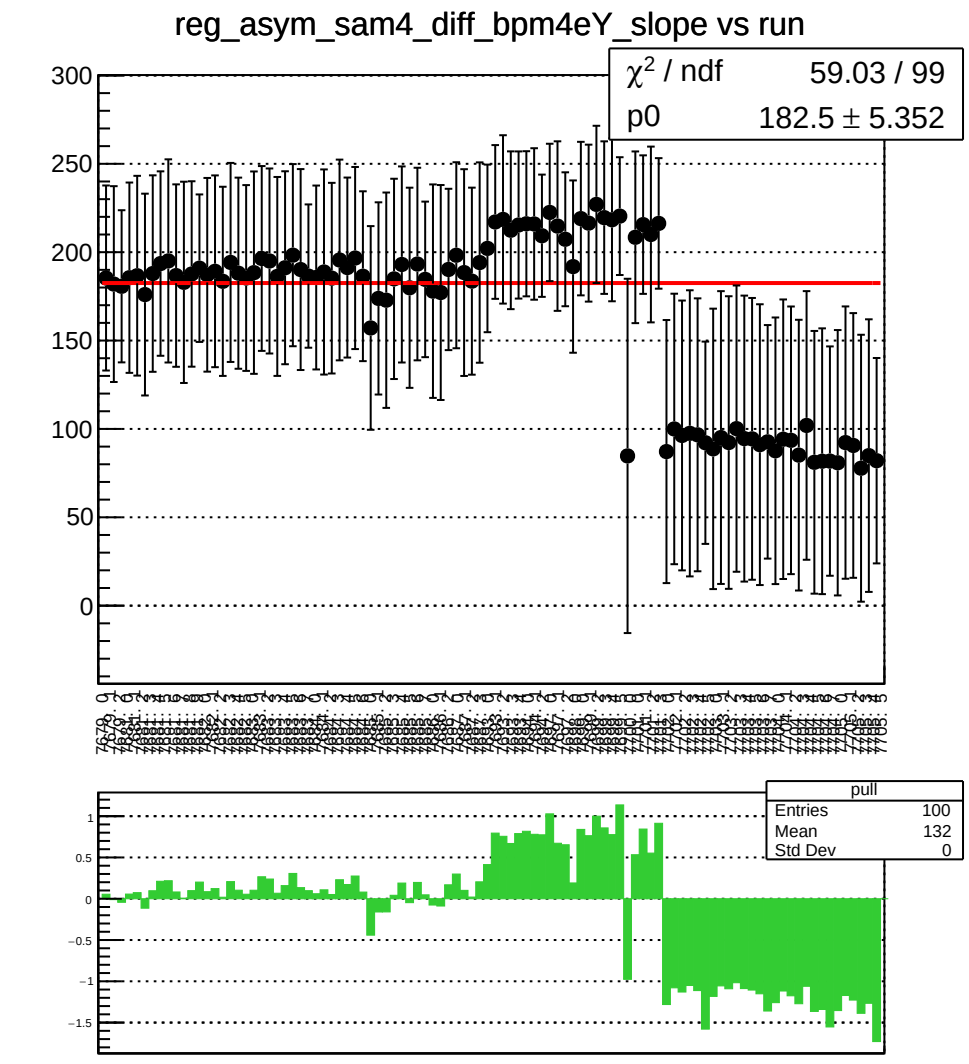

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 58.74 / 99
p0 1.843 ± 2.551
50
0
−50
−100
−150
pull
Entries 100
Mean 113.8
Std Dev 0
0.5
0
−0.5
−1
−1.5

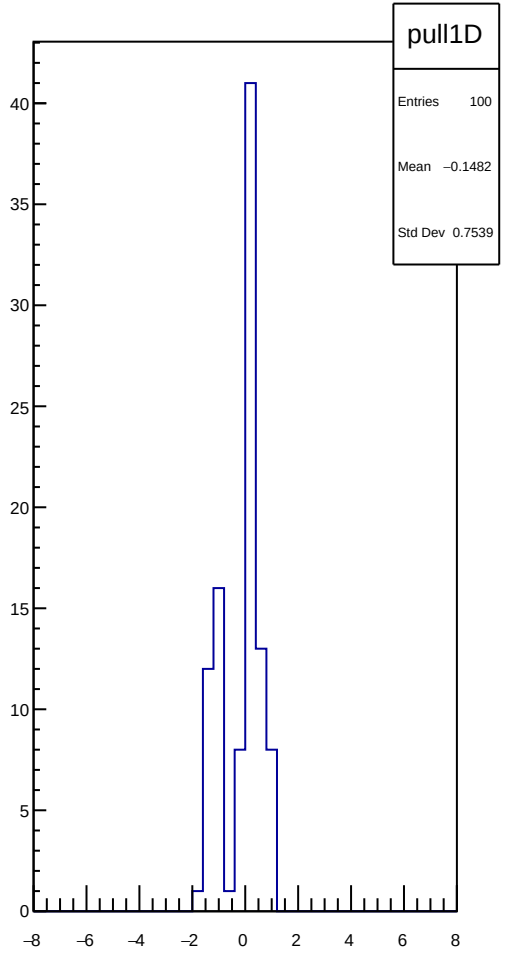

pull1D
Entries 100
Mean −0.2501
Std Dev 0.7244
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

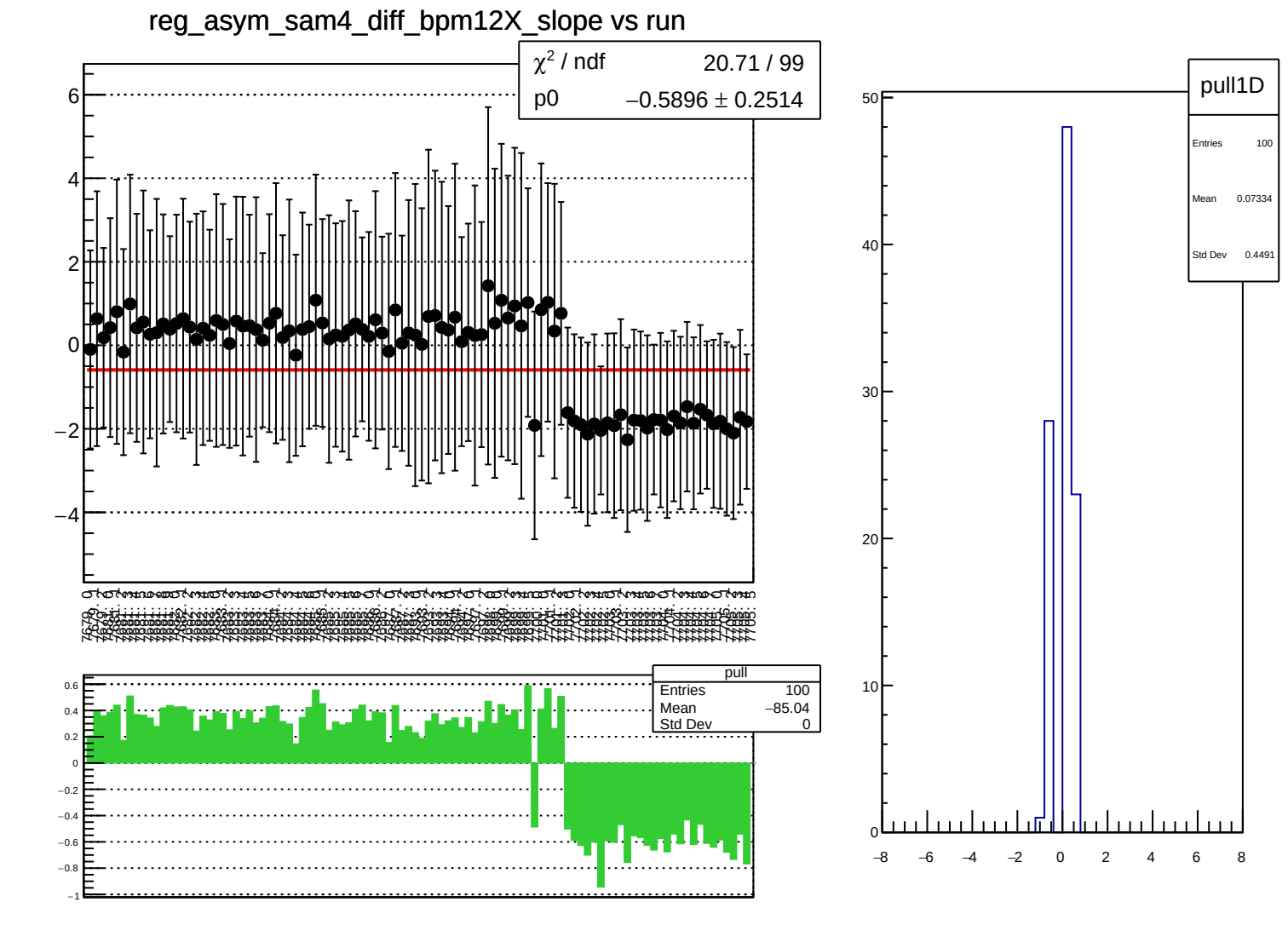

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 79.4 / 99
p0 28.58 ± 3.646
250
200
150
100
50
0
−50
pull
Entries 100
Mean 105
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

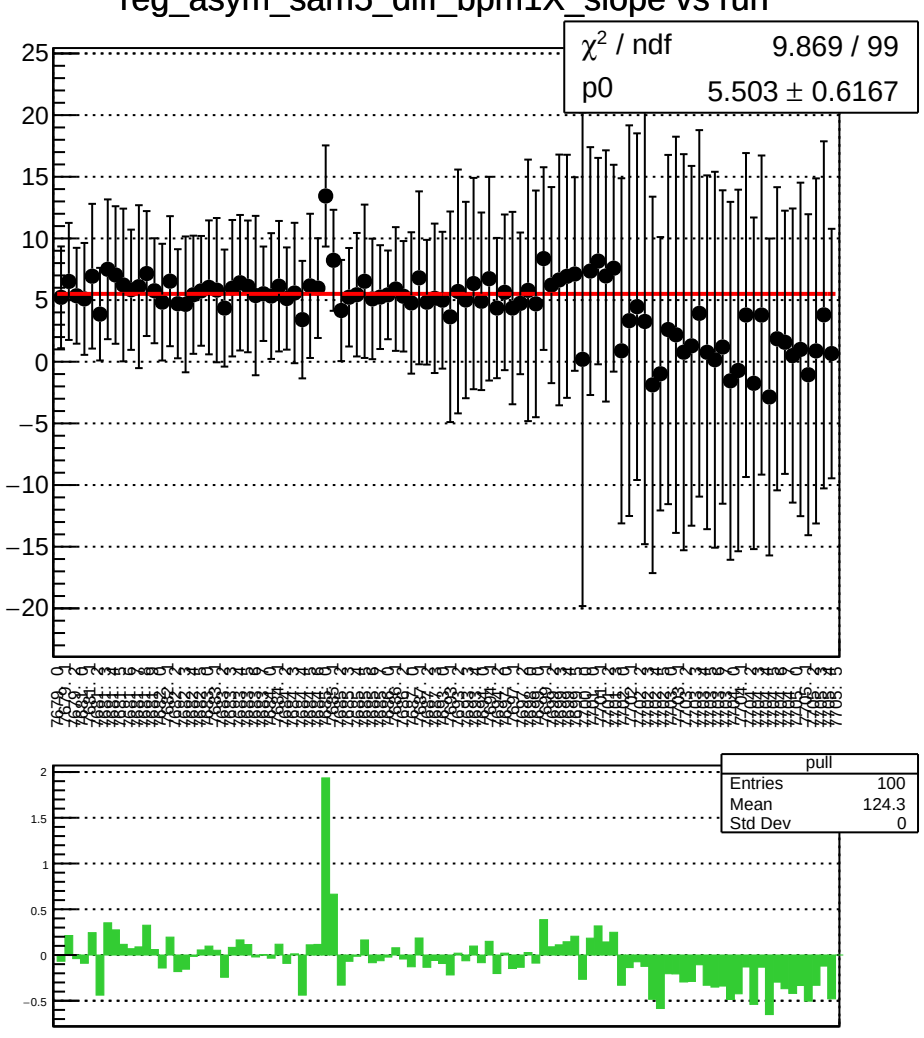

pull1D
Entries 100
Mean 0.2565
Std Dev 0.8533
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

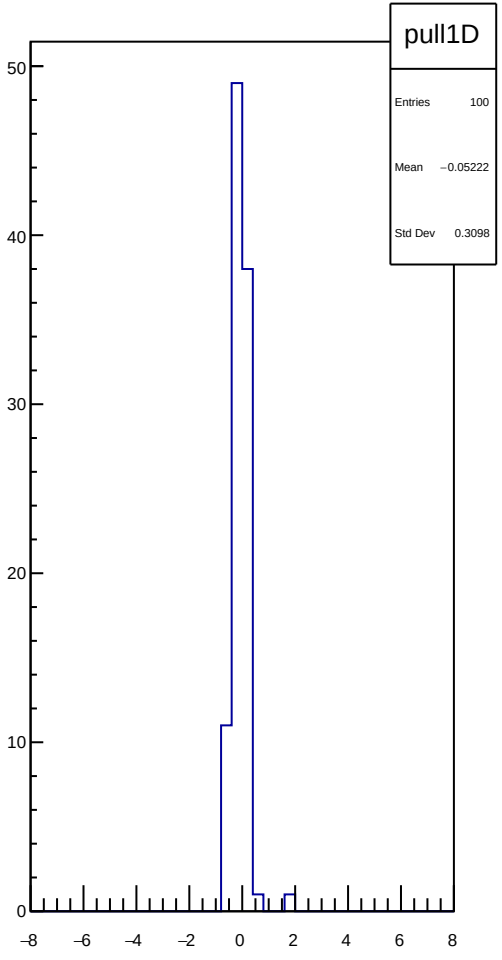

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 56.2 / 99
p0 −182.1± 2.062
pull
Entries 100
Mean 110.7
Std Dev 0
pull1D
Entries 100
Mean 0.2633
Std Dev 0.7019

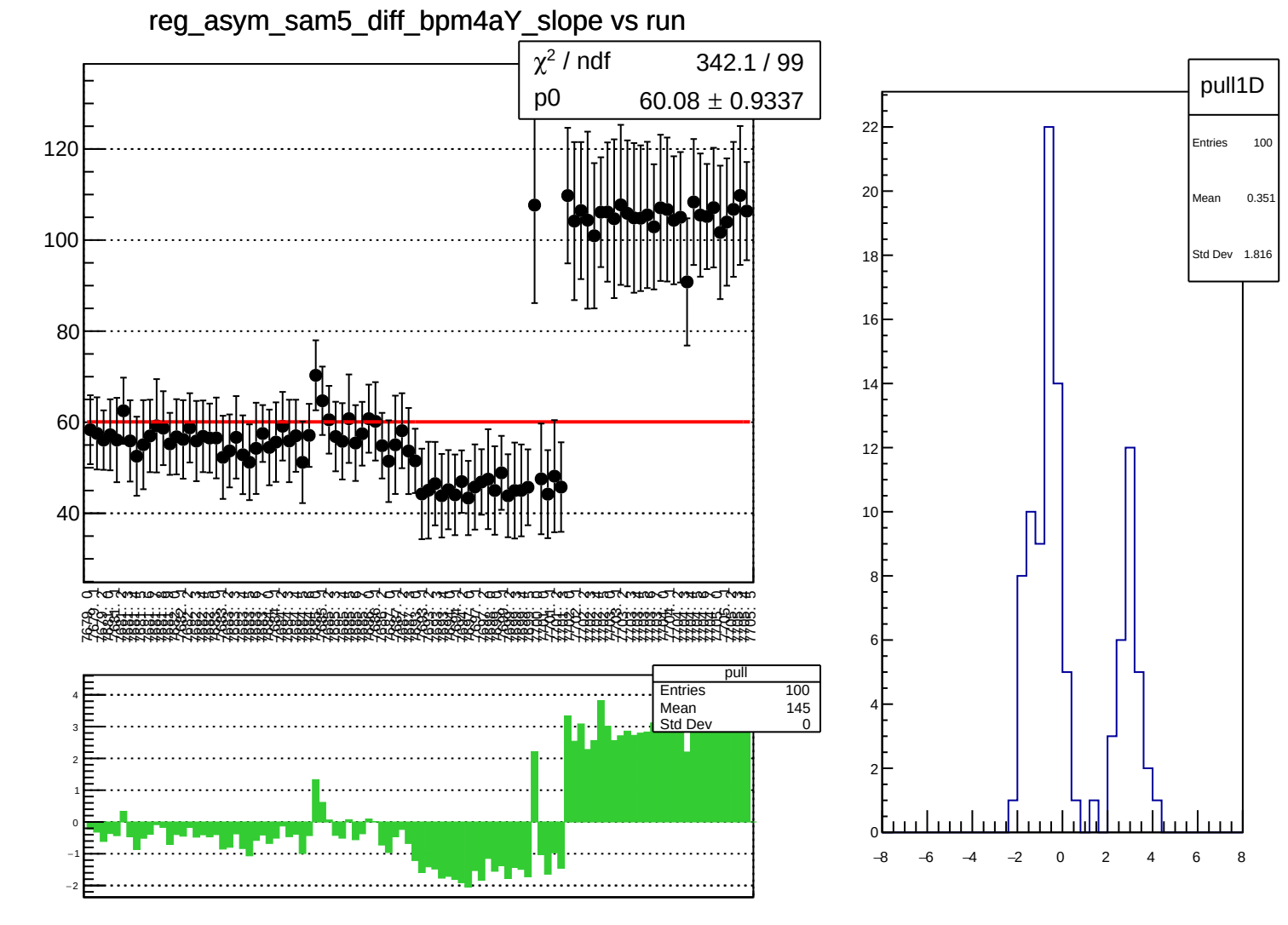

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 59.03 / 99
p0 182.5 ± 5.352
300
250
200
150
100
50
0
pull
Entries 100
Mean 132
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

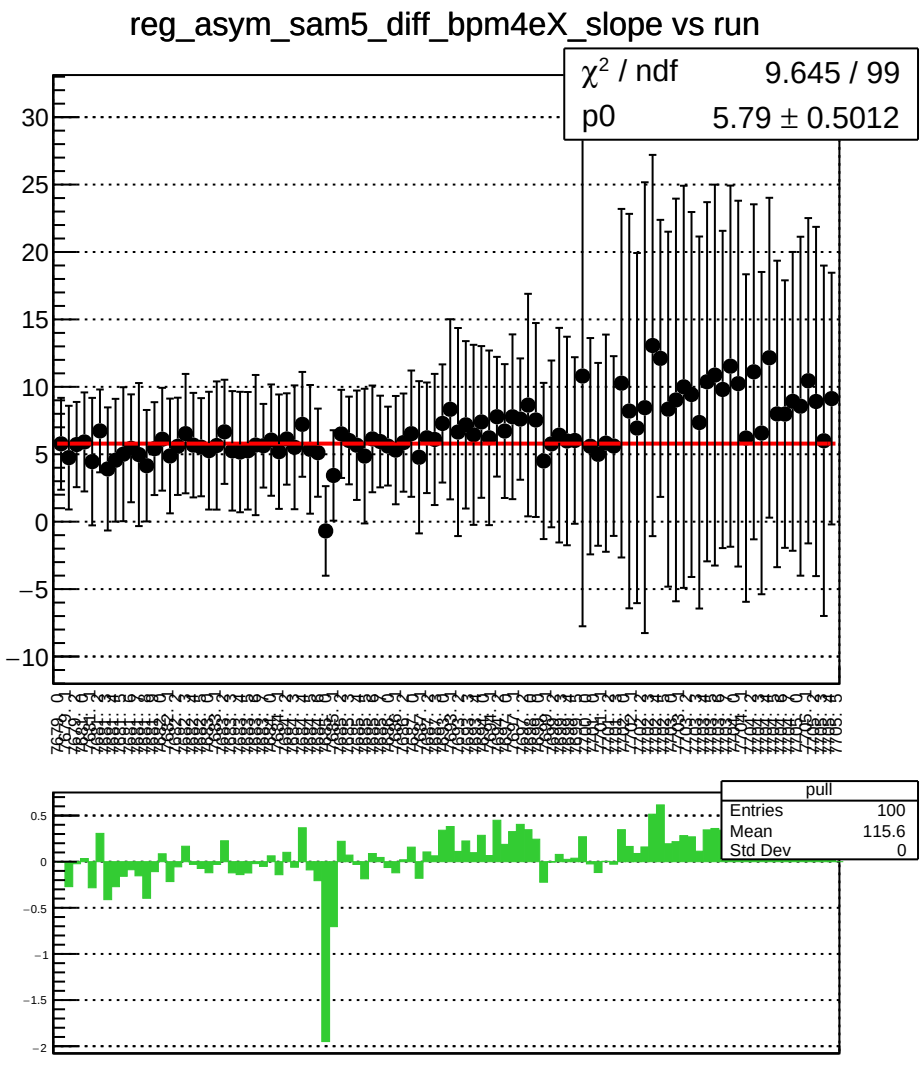

pull1D
Entries 100
Mean −0.1482
Std Dev 0.7539
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

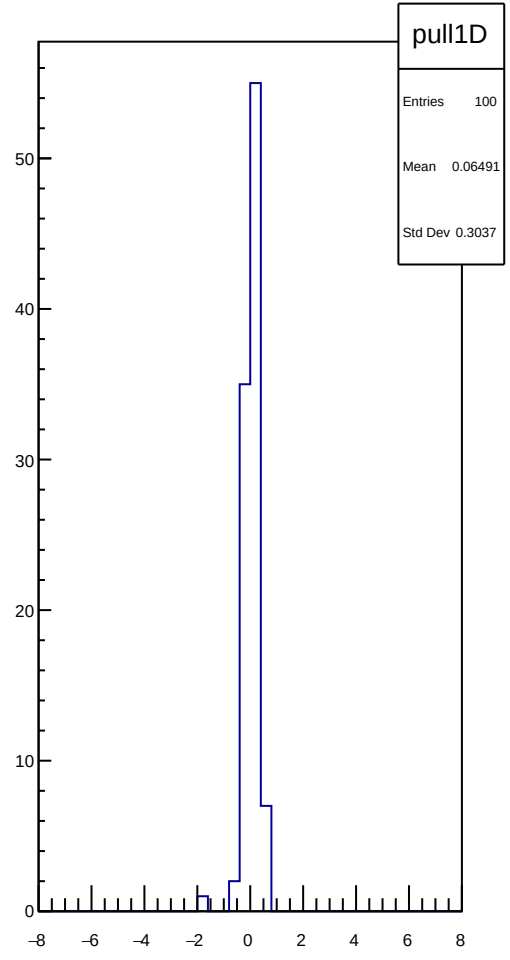

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 20.71 / 99
p0 −0.5896 ± 0.2514
pull
Entries 100
Mean −85.04
Std Dev 0
pull1D
Entries 100
Mean 0.07334
Std Dev 0.4491

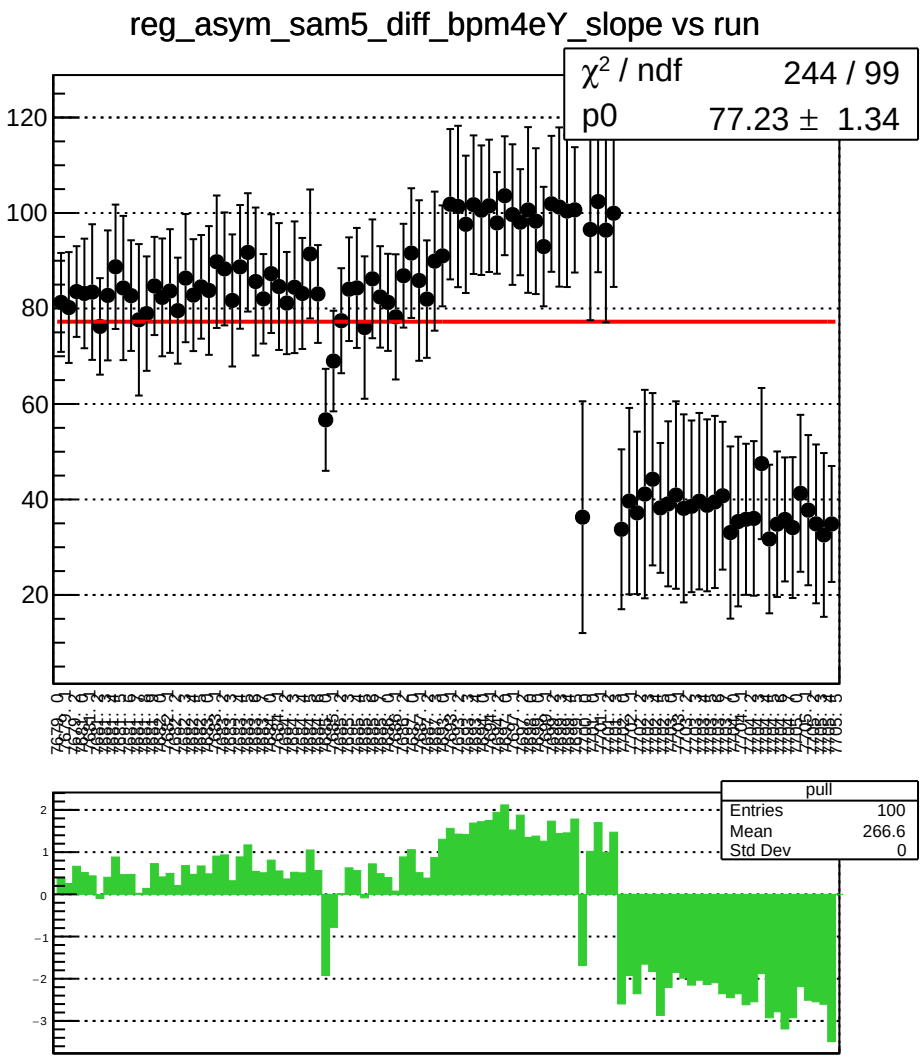

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 9.869 / 99
p0 5.503 ± 0.6167
pull
Entries 100
Mean 124.3
Std Dev 0

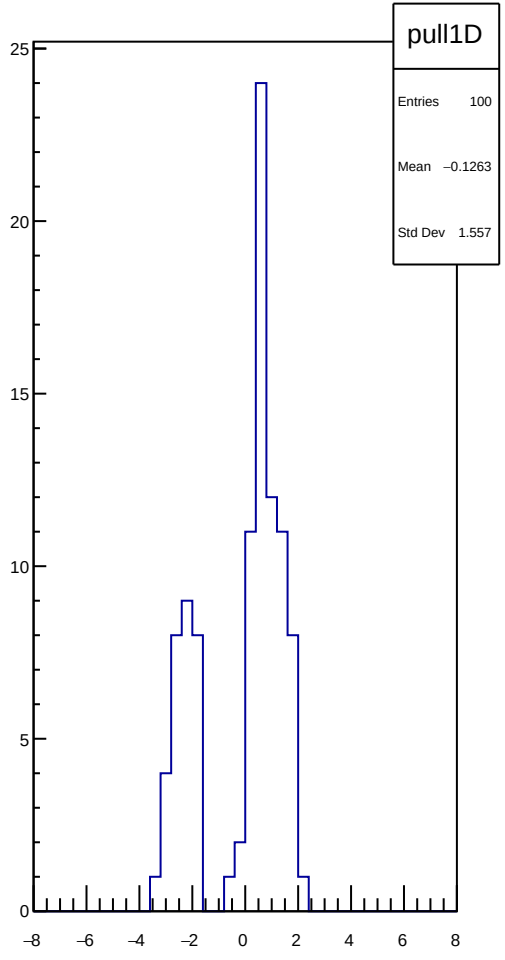

pull1D
Entries 100
Mean −0.05222
Std Dev 0.3098

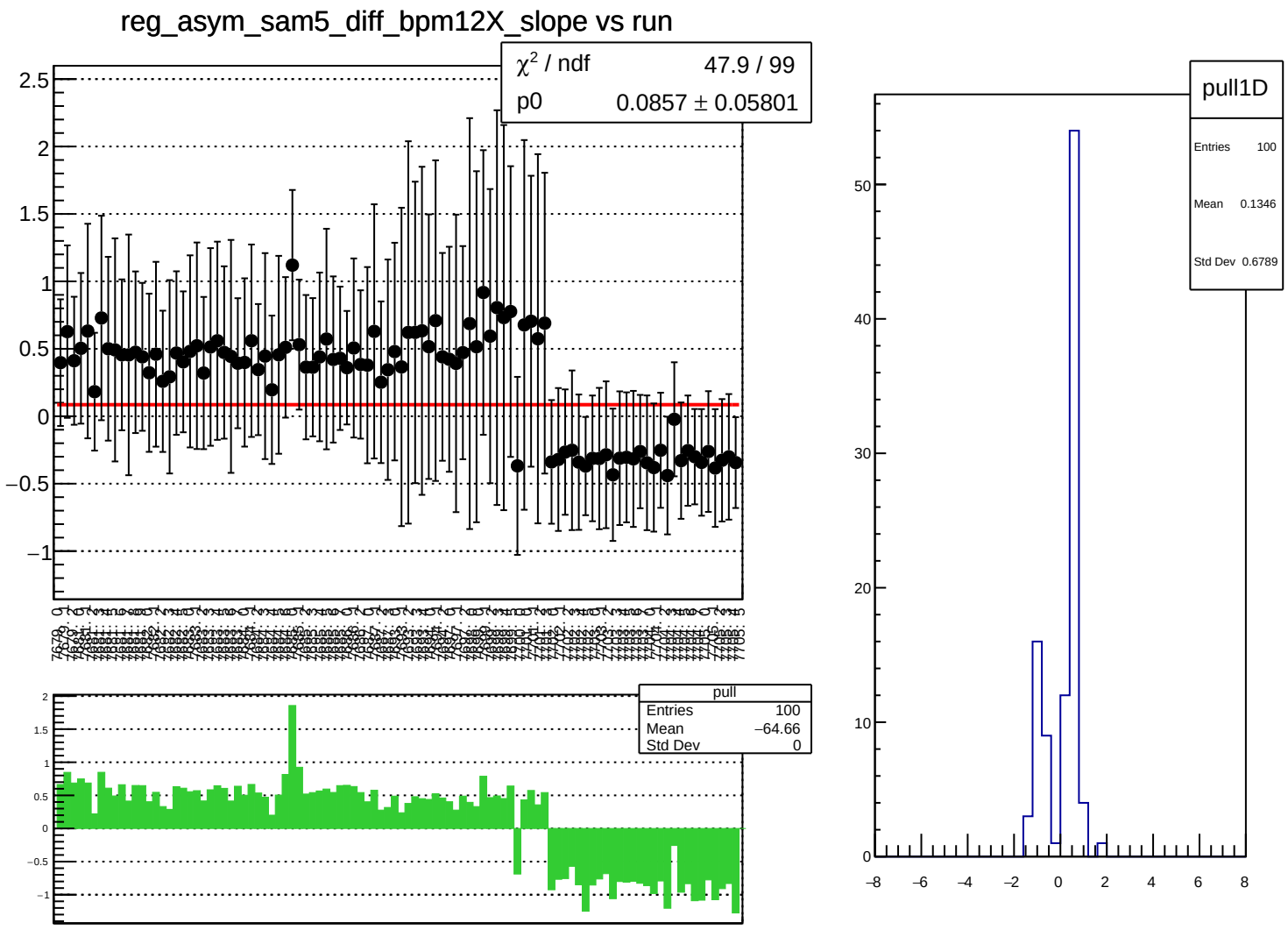

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 342.1 / 99
p0 60.08 ± 0.9337
120
100
80
60
40
pull
Entries 100
Mean 145
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.351
Std Dev 1.816
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

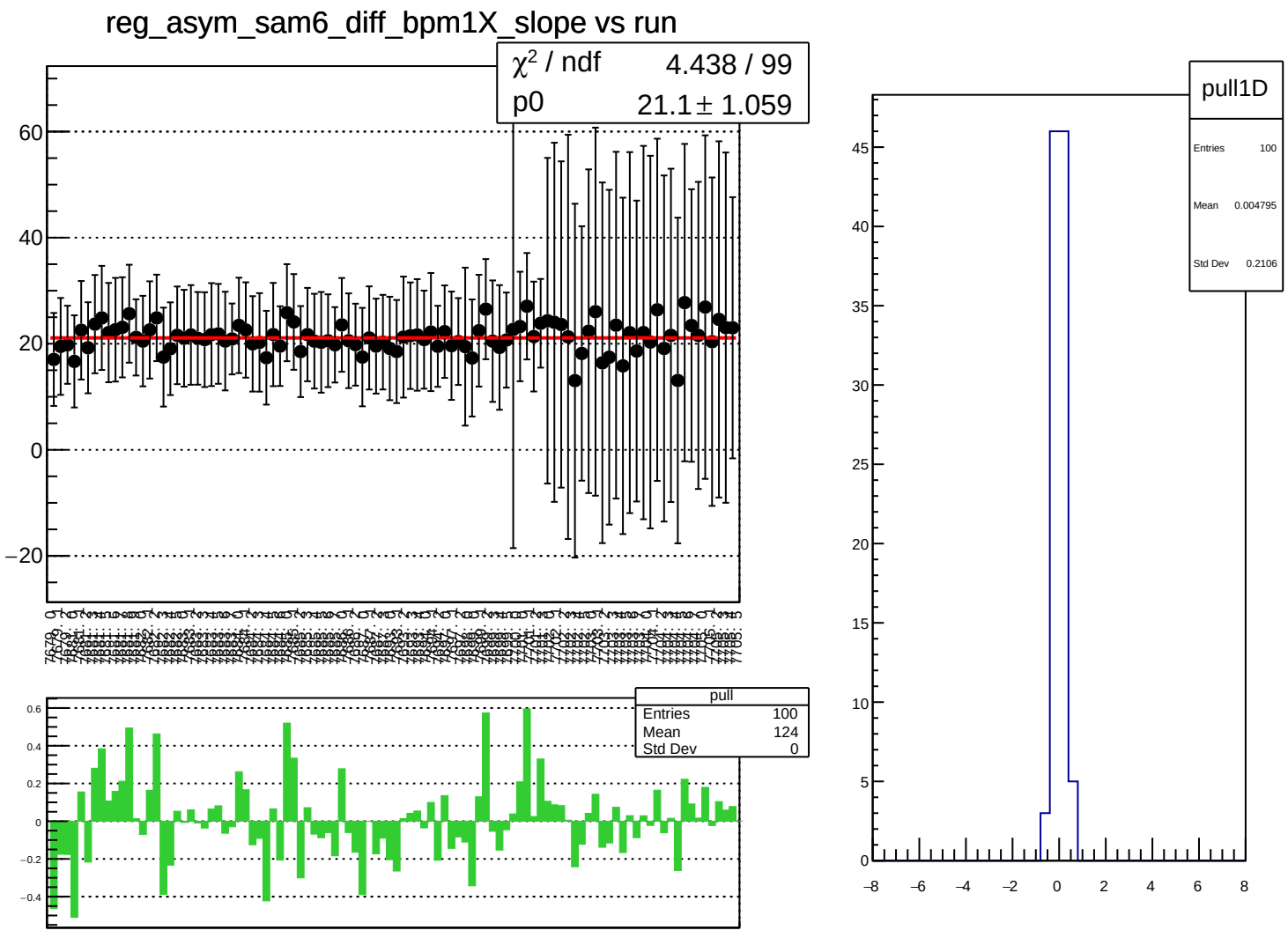

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 9.645 / 99
p0 5.79 ± 0.5012
pull
Entries 100
Mean 115.6
Std Dev 0

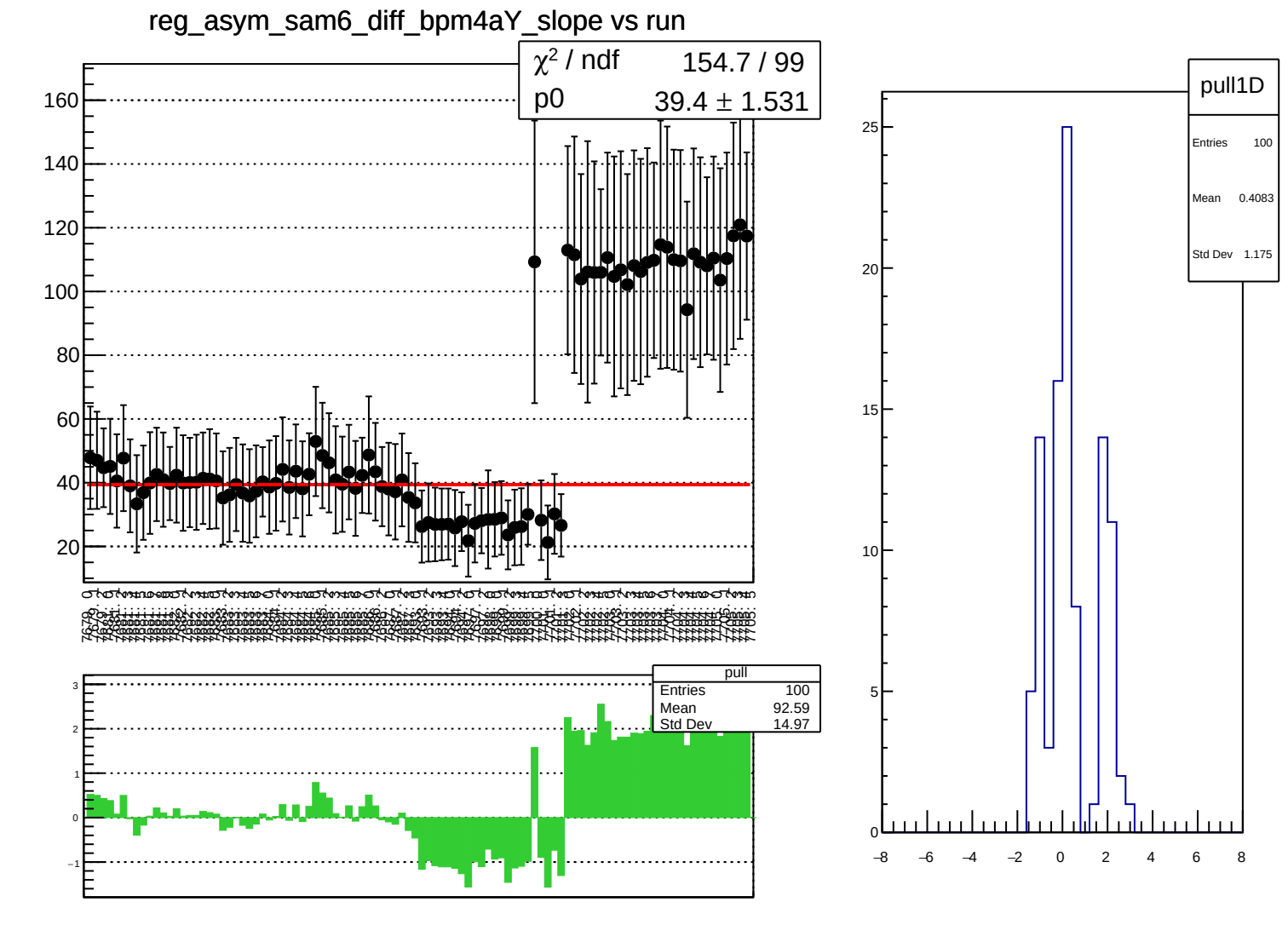

pull1D
Entries 100
Mean 0.06491
Std Dev 0.3037

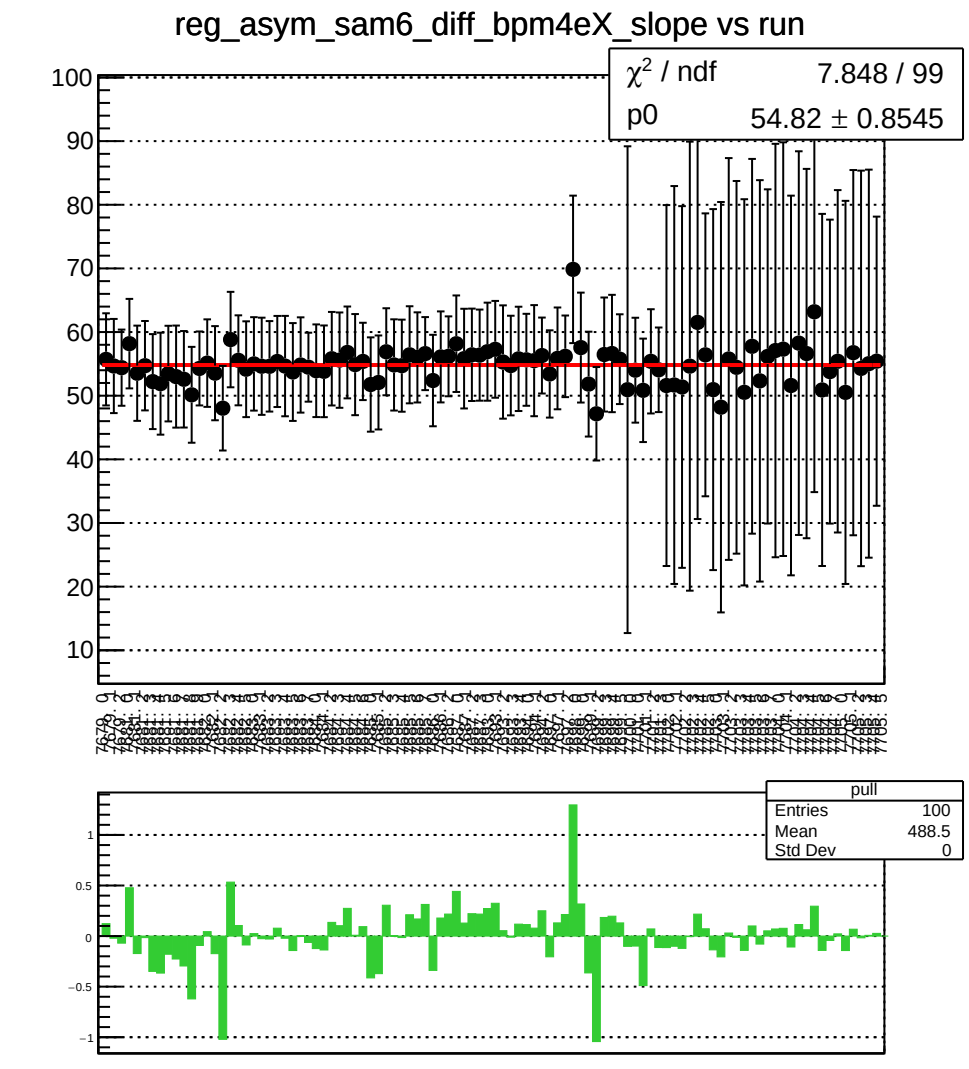

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 244 / 99
p0 77.23 ± 1.34
120
100
80
60
40
20
pull
Entries 100
Mean 266.6
Std Dev 0
2
1
0
−1
−2
−3

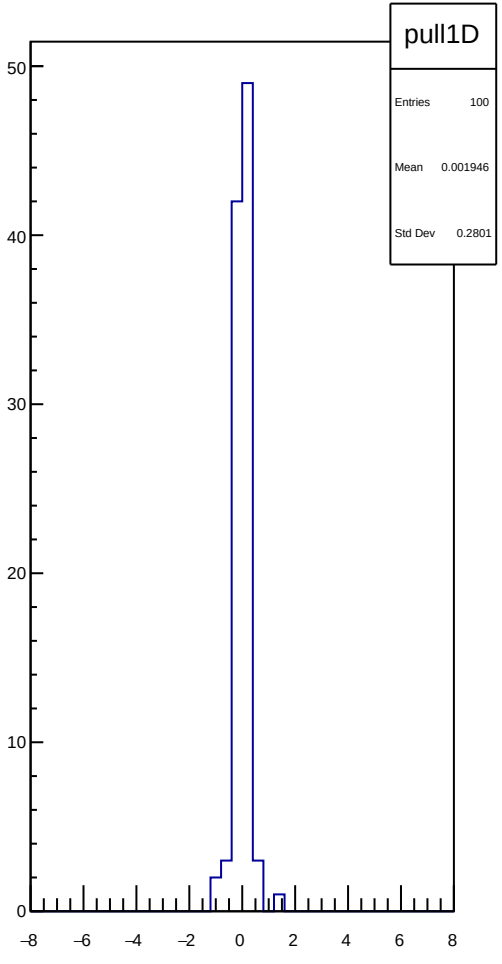

pull1D
Entries 100
Mean −0.1263
Std Dev 1.557
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

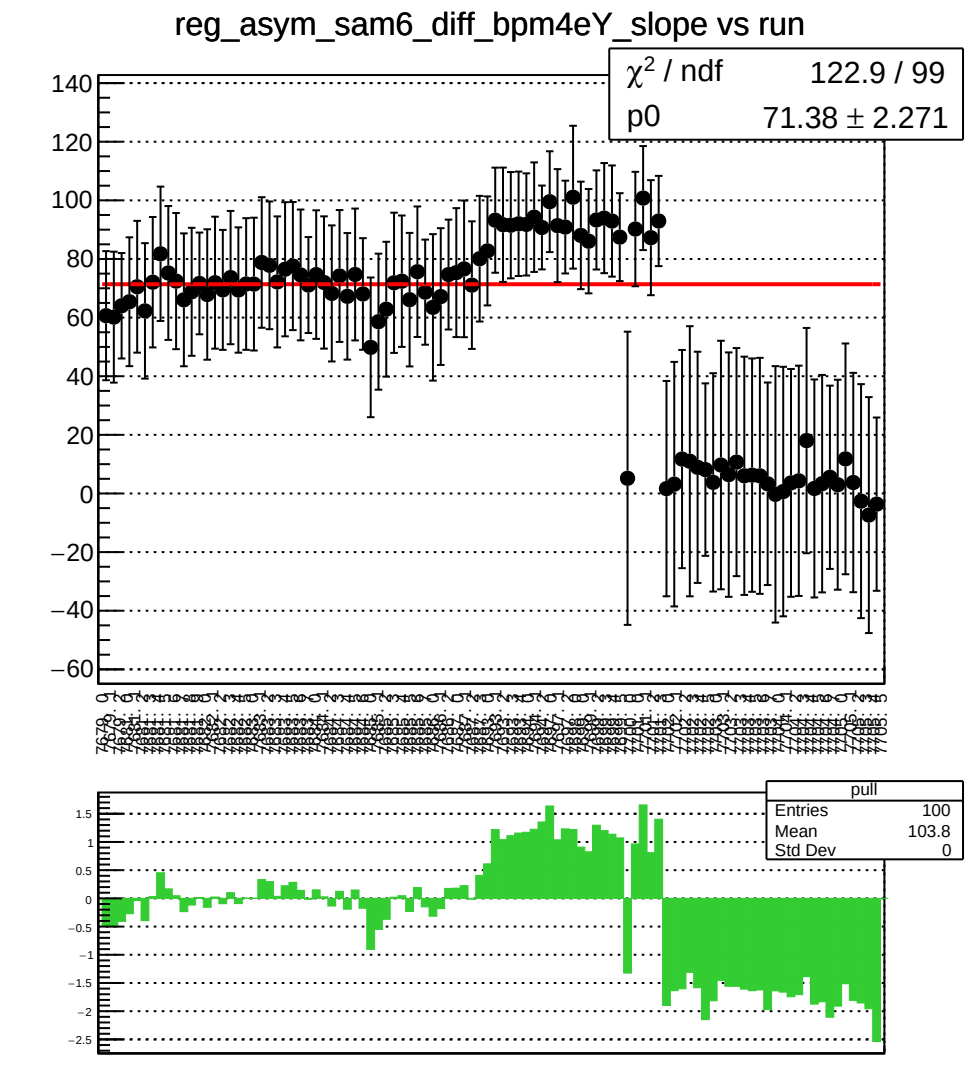

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 47.9 / 99
p0 0.0857 ± 0.05801
pull
Entries 100
Mean −64.66
Std Dev 0
pull1D
Entries 100
Mean 0.1346
Std Dev 0.6789

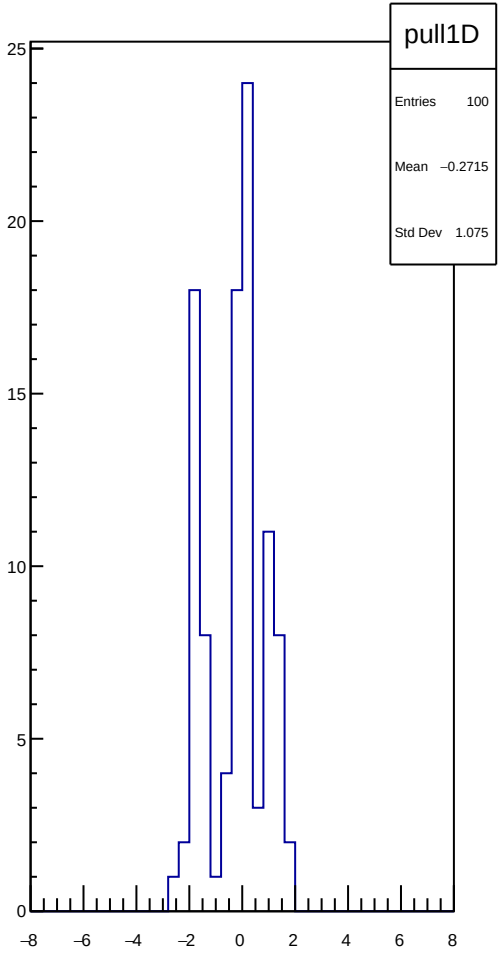

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 4.438 / 99
p0 21.1 ± 1.059
pull
Entries 100
Mean 124
Std Dev 0
pull1D
Entries 100
Mean 0.004795
Std Dev 0.2106

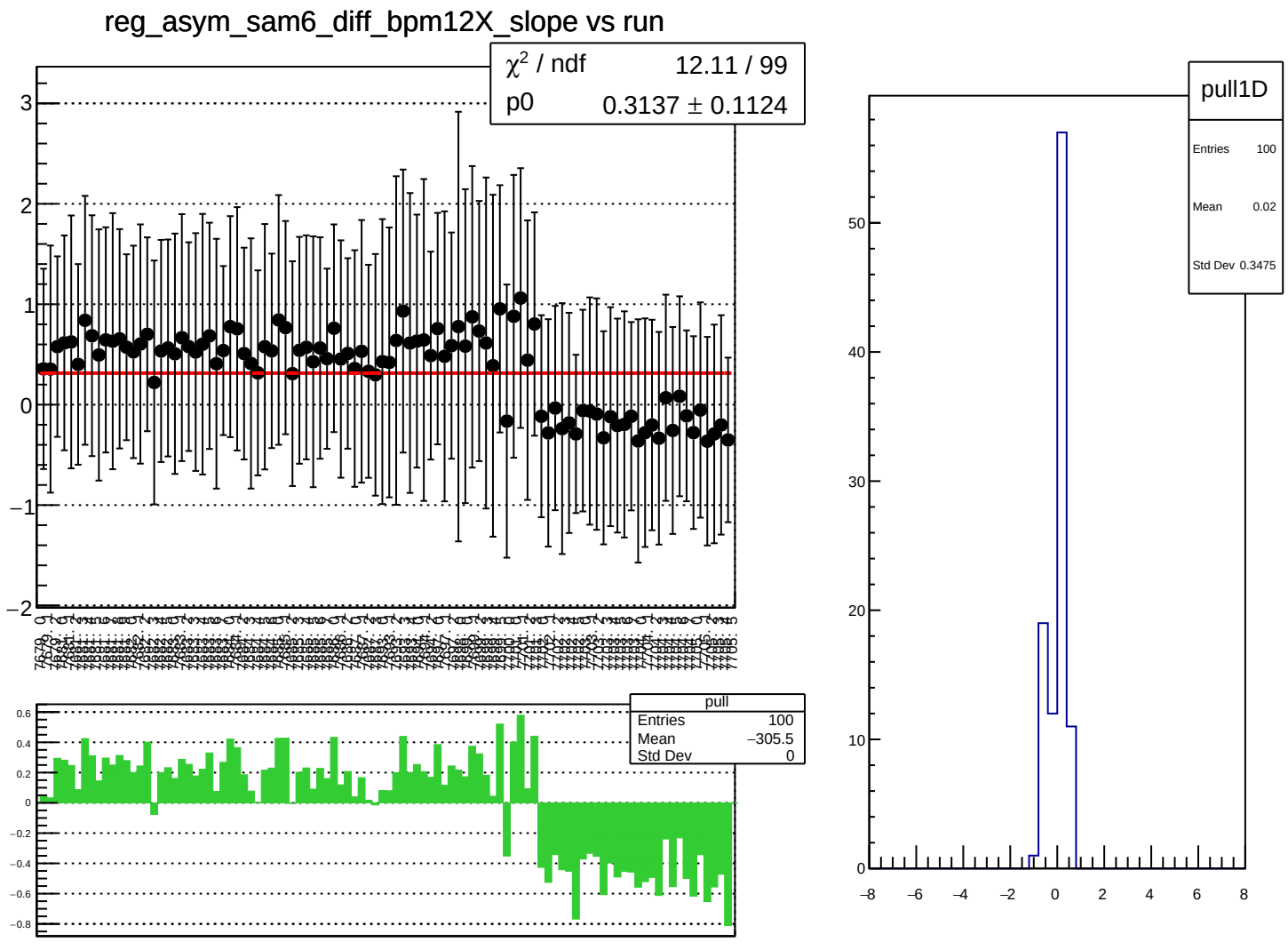

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 154.7 / 99
p0 39.4 ± 1.531
160
140
120
100
80
60
40
20
pull
Entries 100
Mean 92.59
Std Dev 14.97
3
2
1
0
−1
pull1D
Entries 100
Mean 0.4083
Std Dev 1.175
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

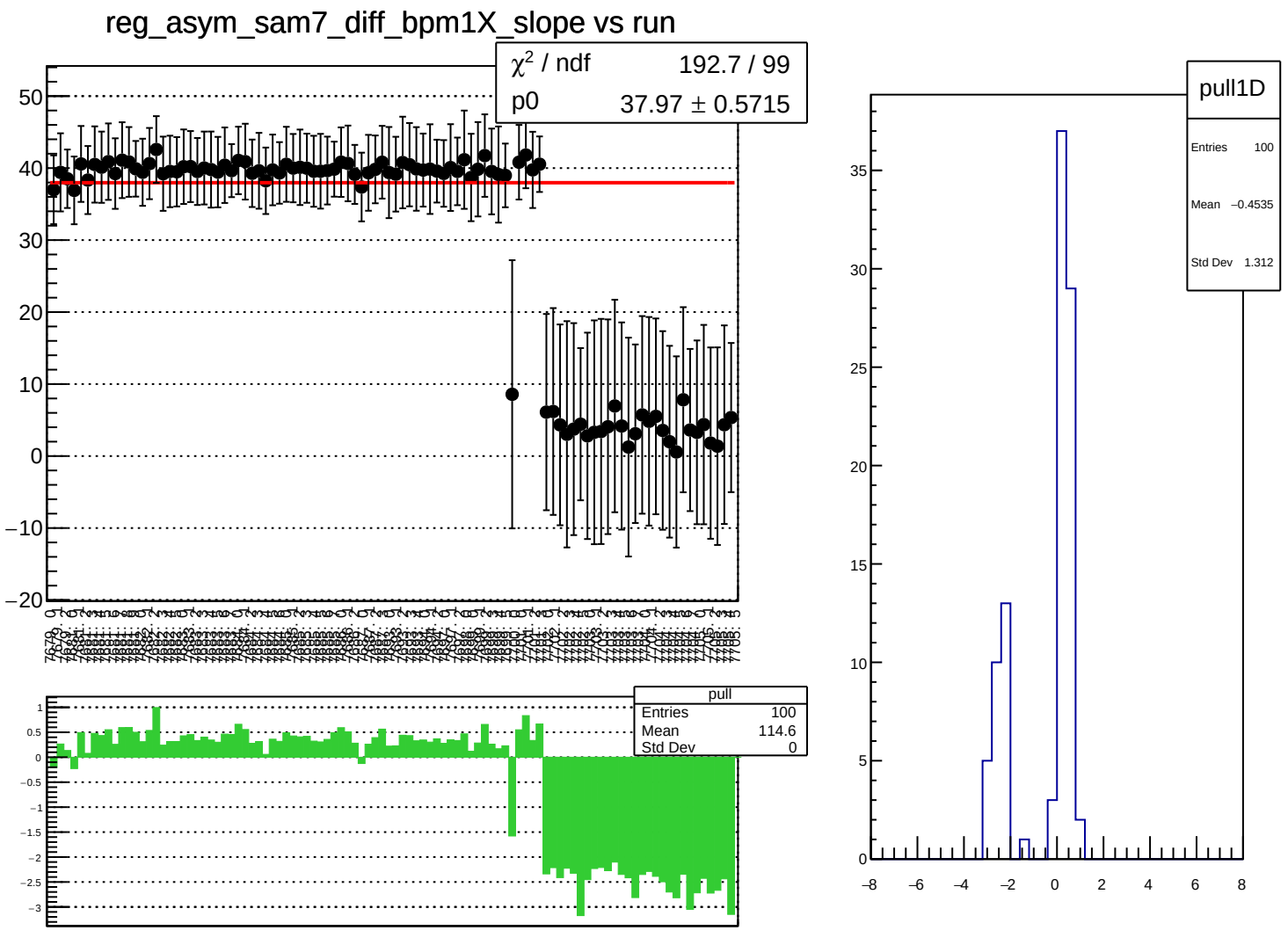

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 7.848 / 99
p0 54.82 ± 0.8545
pull
Entries 100
Mean 488.5
Std Dev 0

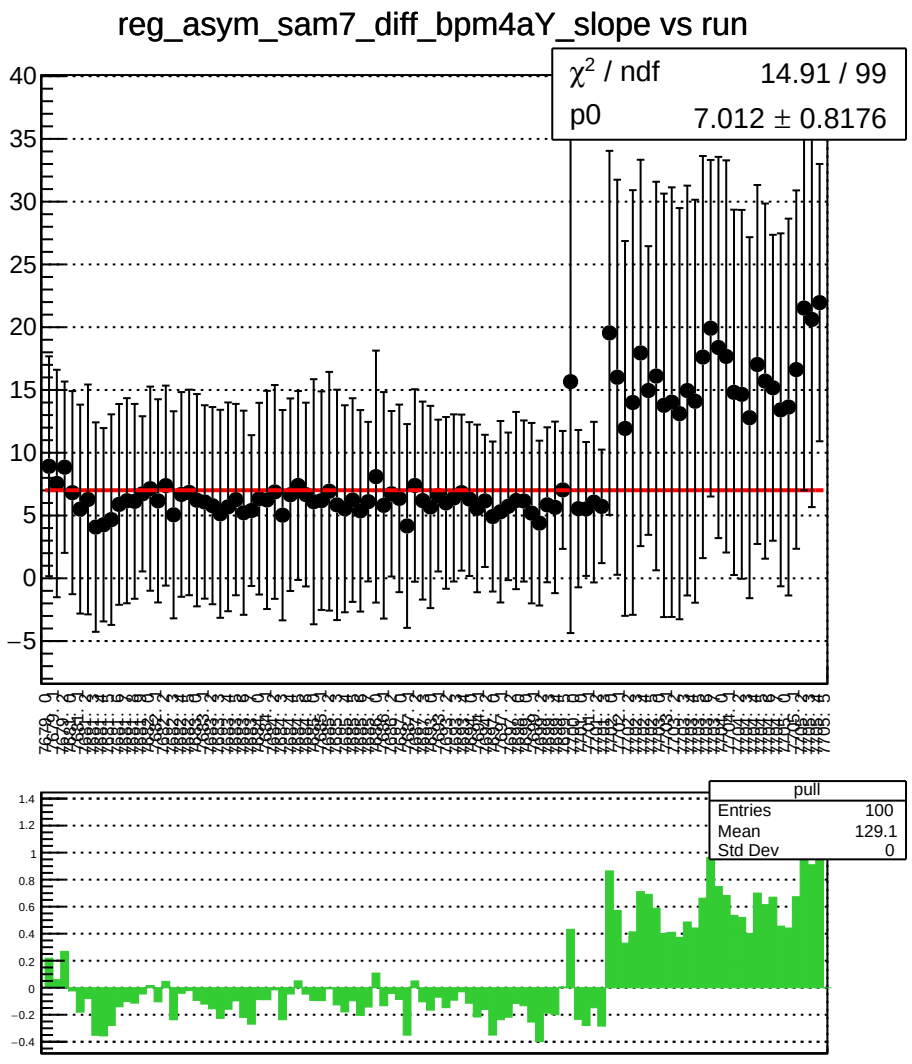

pull1D
Entries 100
Mean 0.001946
Std Dev 0.2801

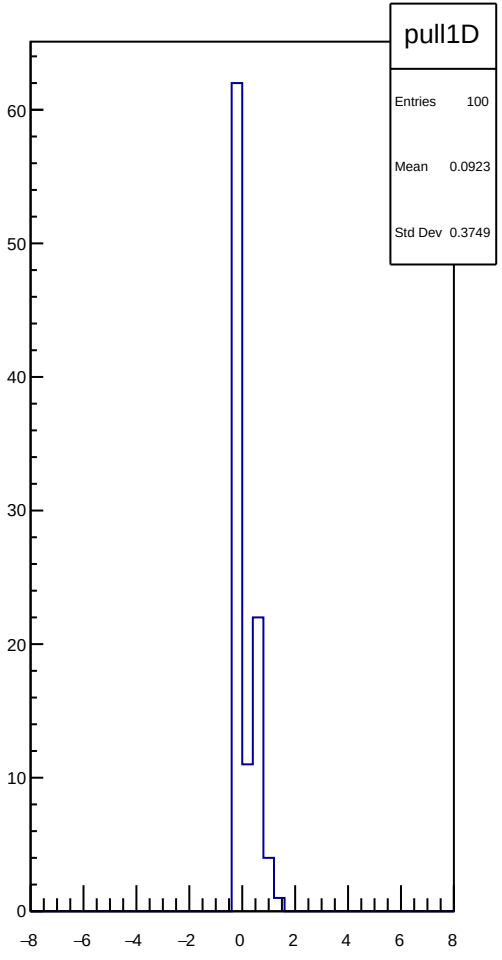

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 122.9 / 99
p0 71.38 ± 2.271
pull
Entries 100
Mean 103.8
Std Dev 0

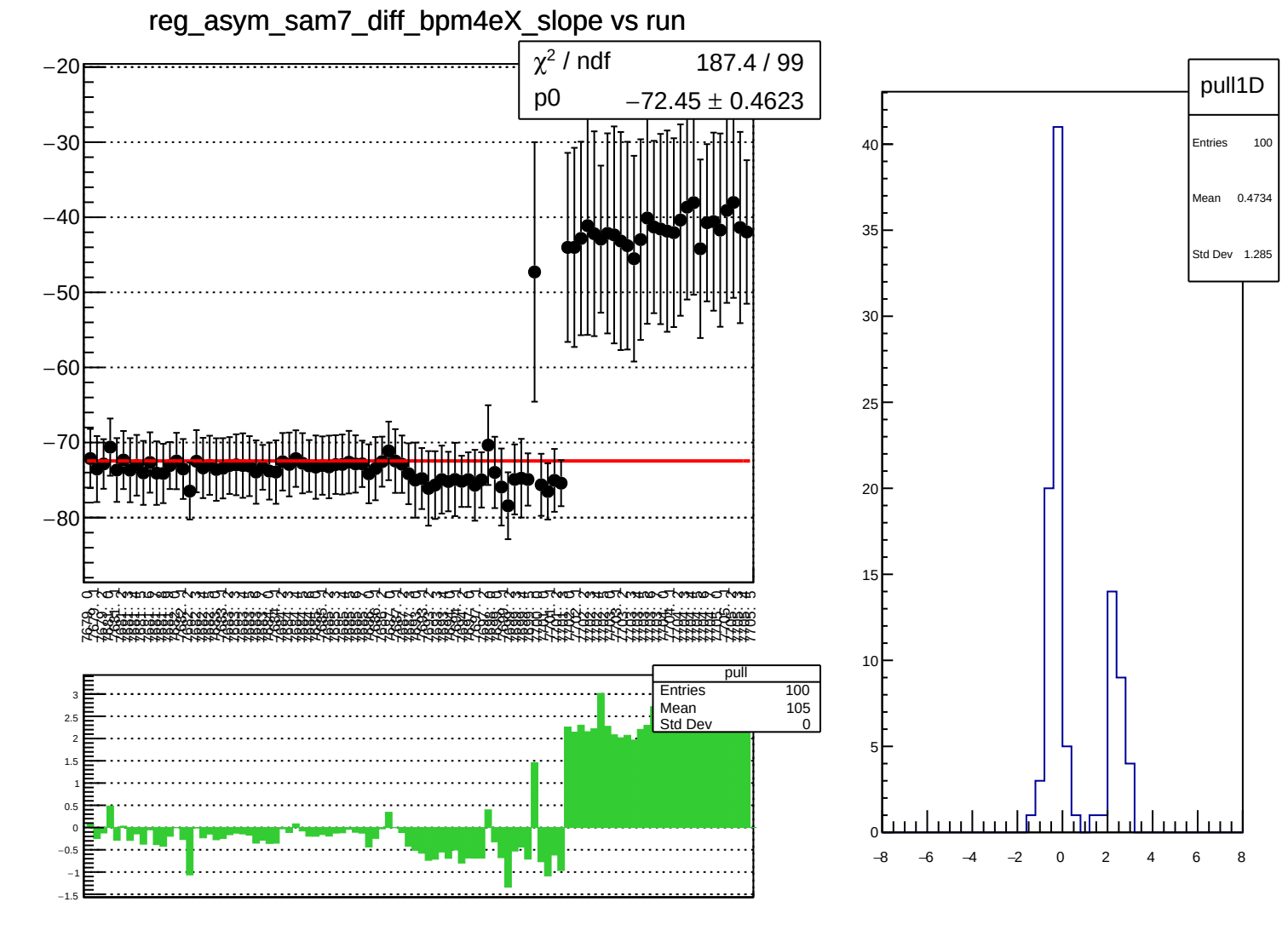

pull1D
Entries 100
Mean −0.2715
Std Dev 1.075

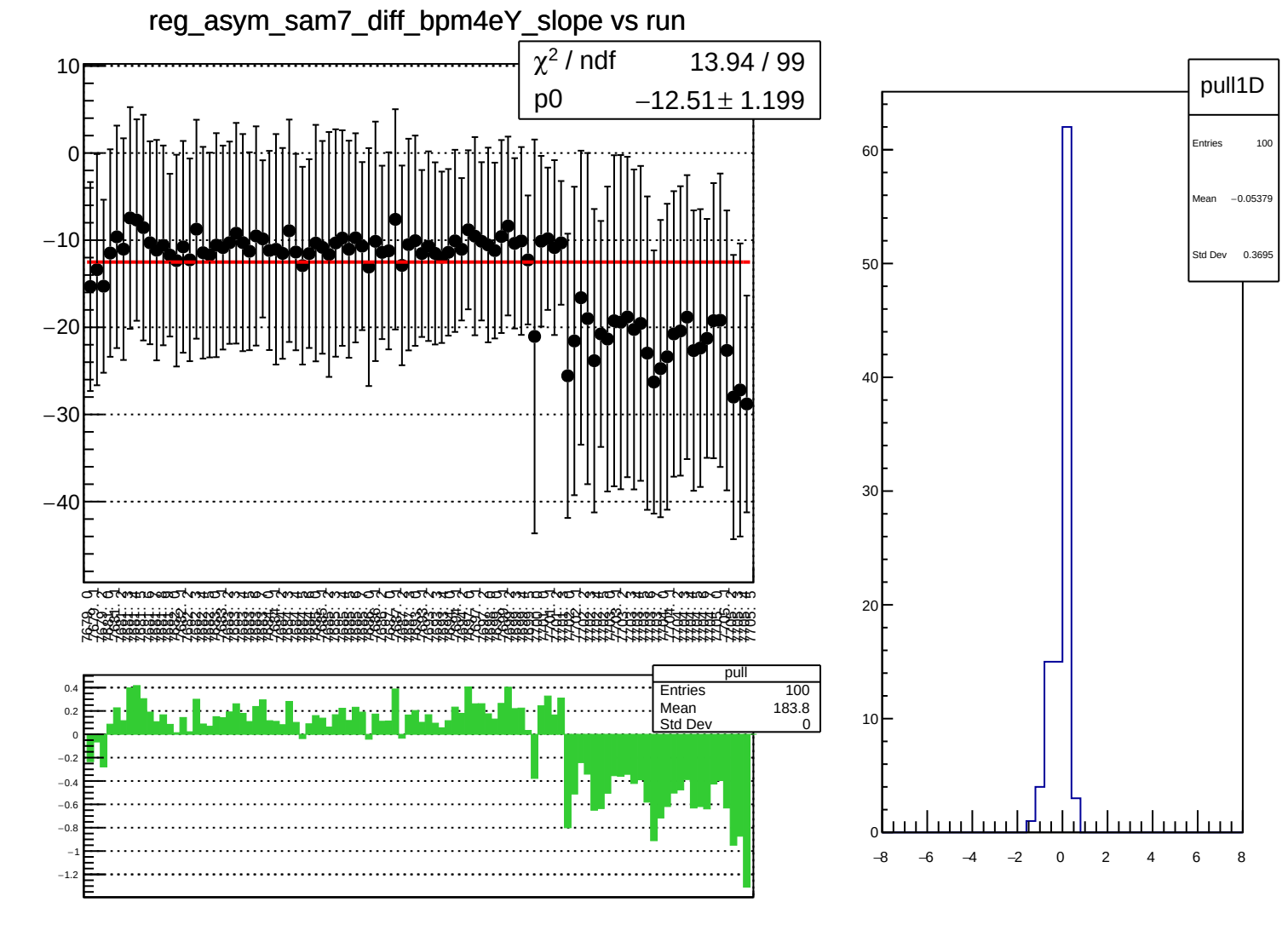

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 12.11 / 99
p0 0.3137 ± 0.1124
pull
Entries 100
Mean −305.5
Std Dev 0
pull1D
Entries 100
Mean 0.02
Std Dev 0.3475

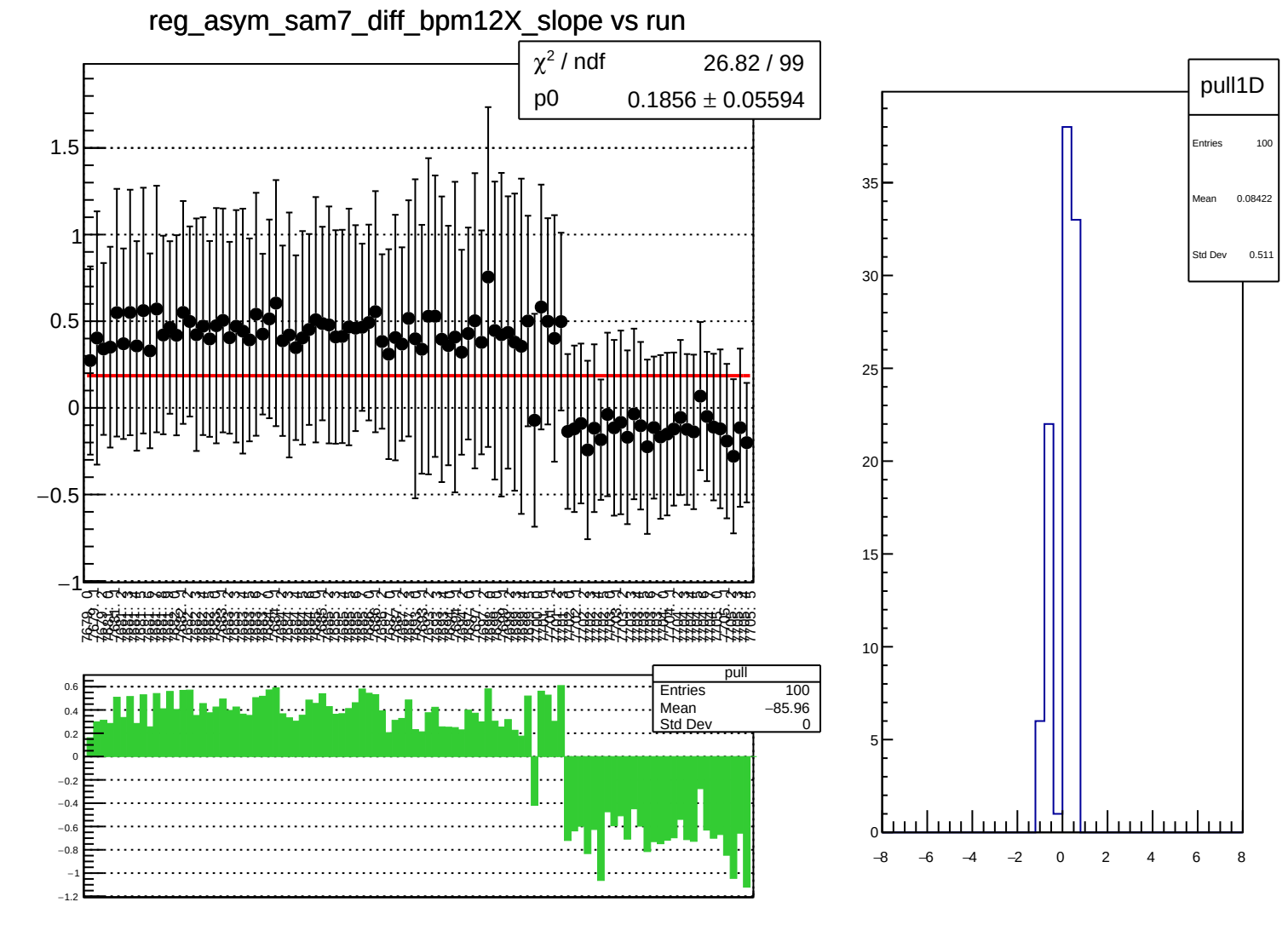

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 192.7 / 99
p0 37.97 ± 0.5715
pull
Entries 100
Mean 114.6
Std Dev 0
pull1D
Entries 100
Mean −0.4535
Std Dev 1.312

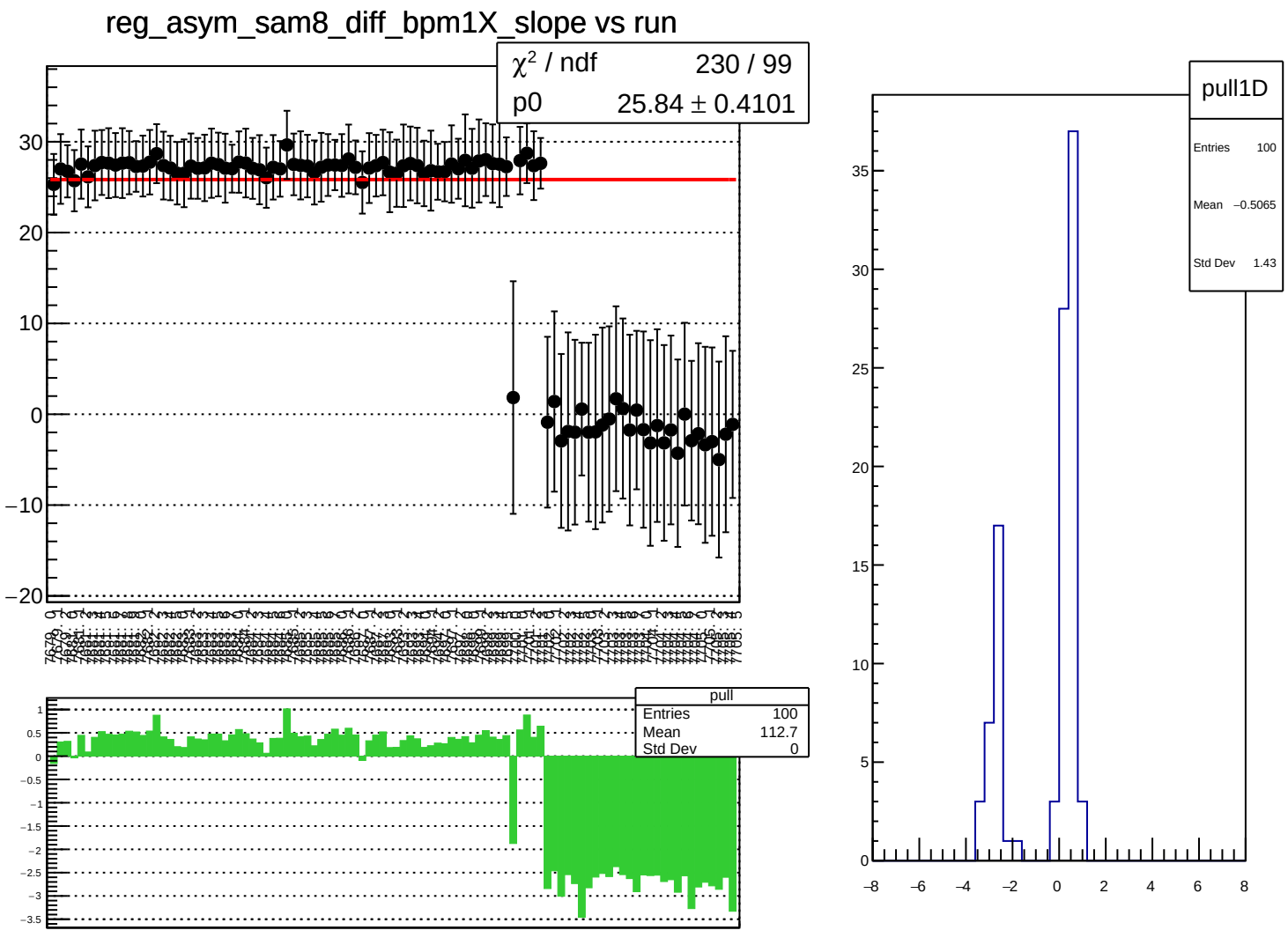

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 14.91 / 99
p0 7.012 ± 0.8176
pull
Entries 100
Mean 129.1
Std Dev 0

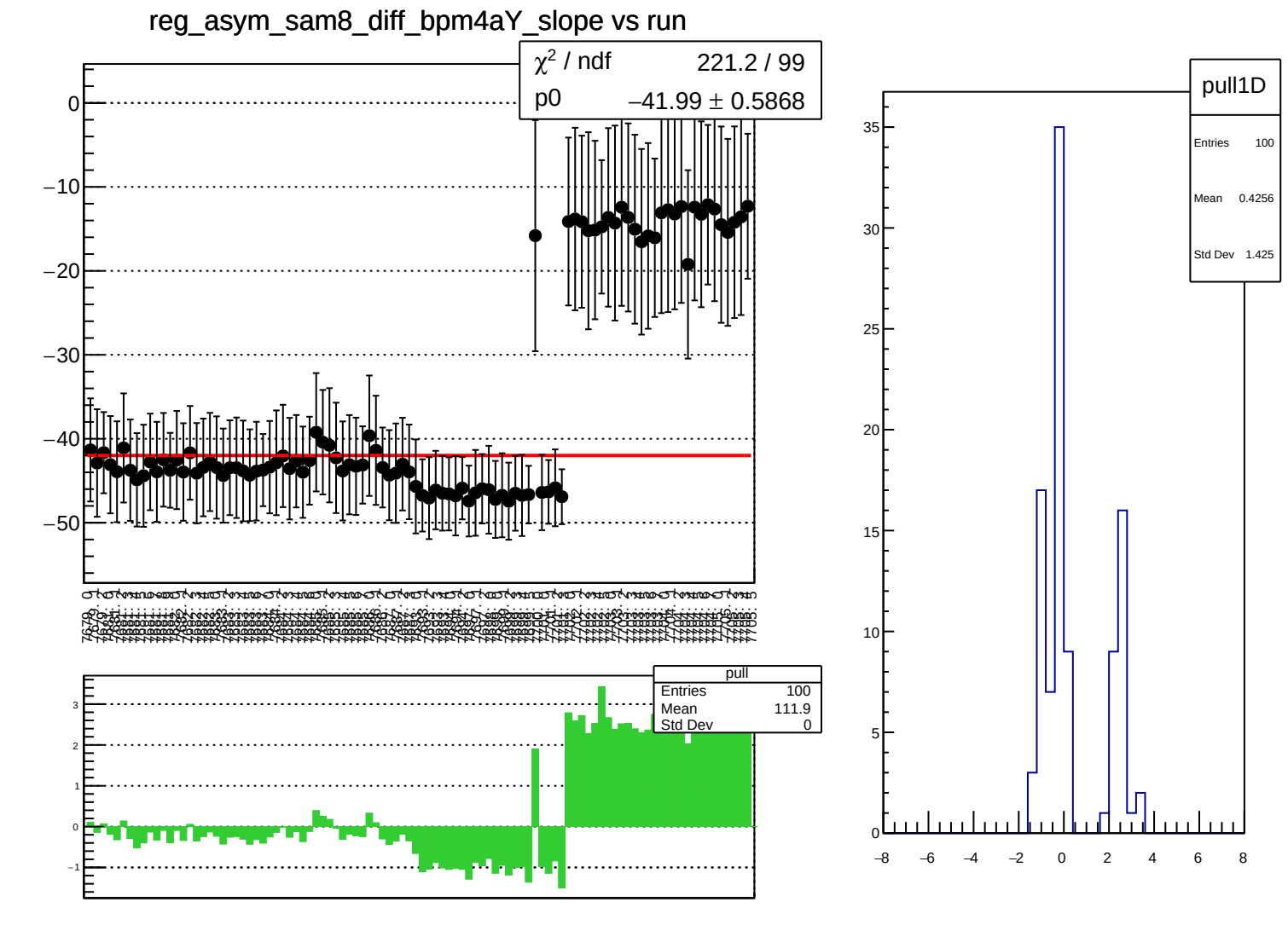

pull1D
Entries 100
Mean 0.0923
Std Dev 0.3749

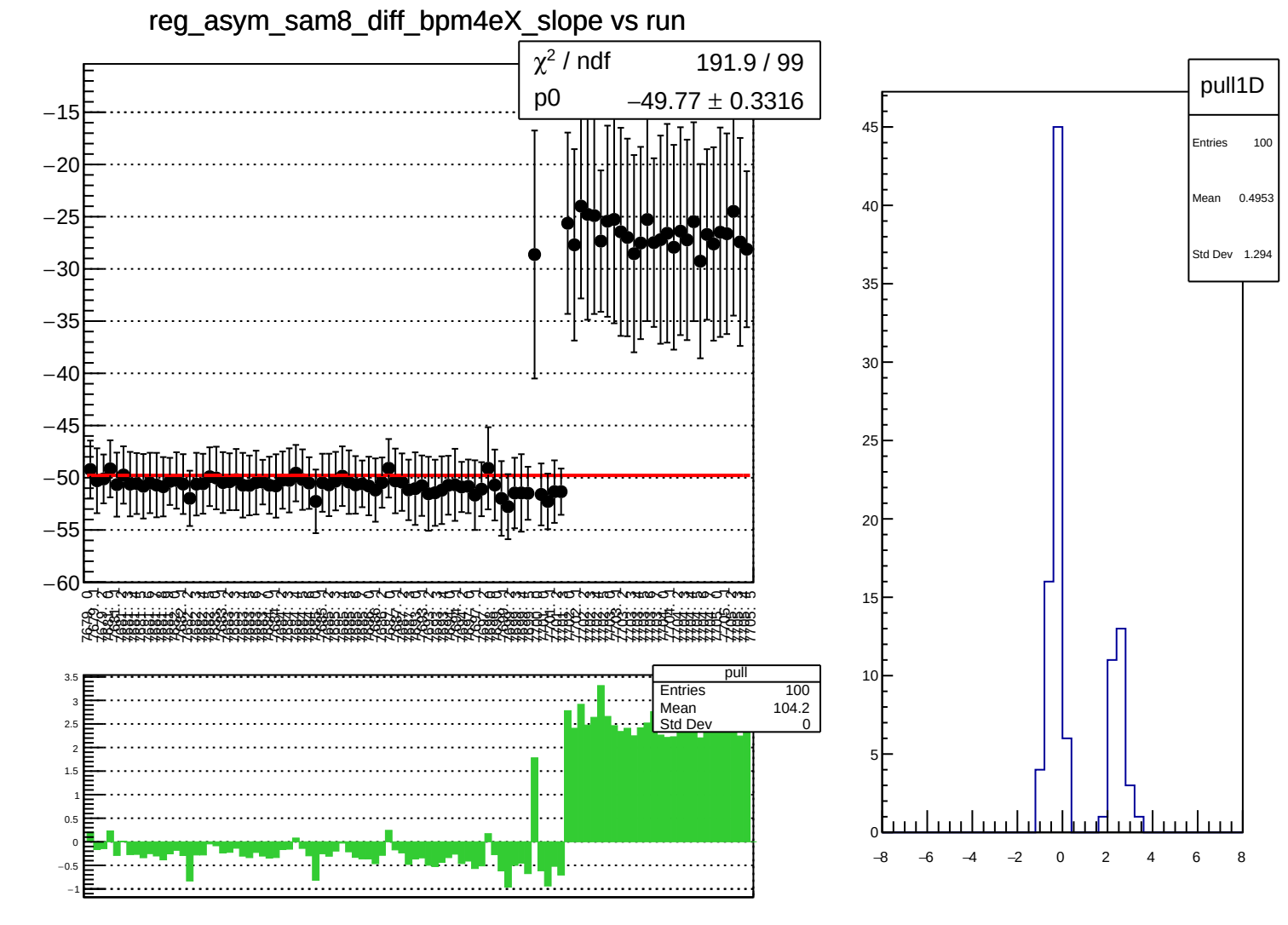

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 187.4 / 99
p0 −72.45 ± 0.4623
pull
Entries 100
Mean 105
Std Dev 0
pull1D
Entries 100
Mean 0.4734
Std Dev 1.285

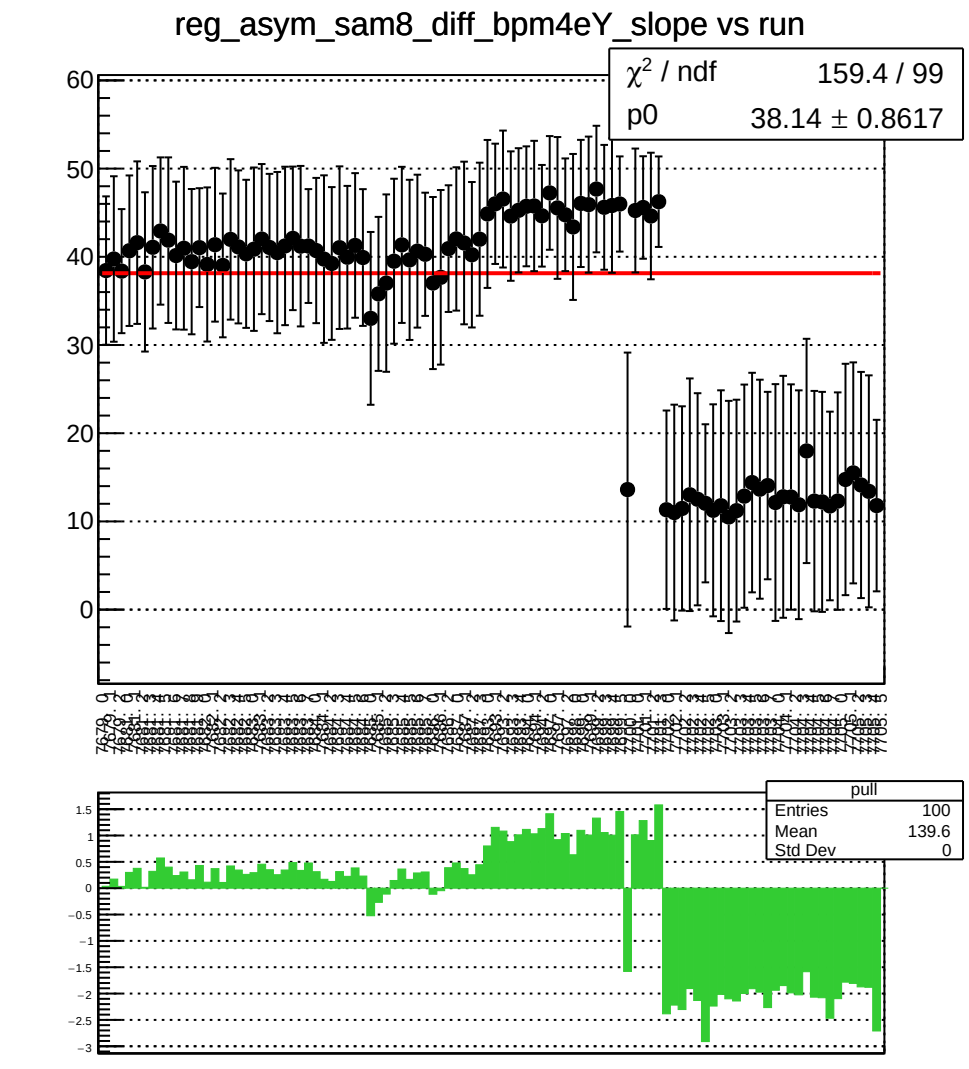

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 13.94 / 99
p0 −12.51 ± 1.199
pull
Entries 100
Mean 183.8
Std Dev 0
pull1D
Entries 100
Mean −0.05379
Std Dev 0.3695

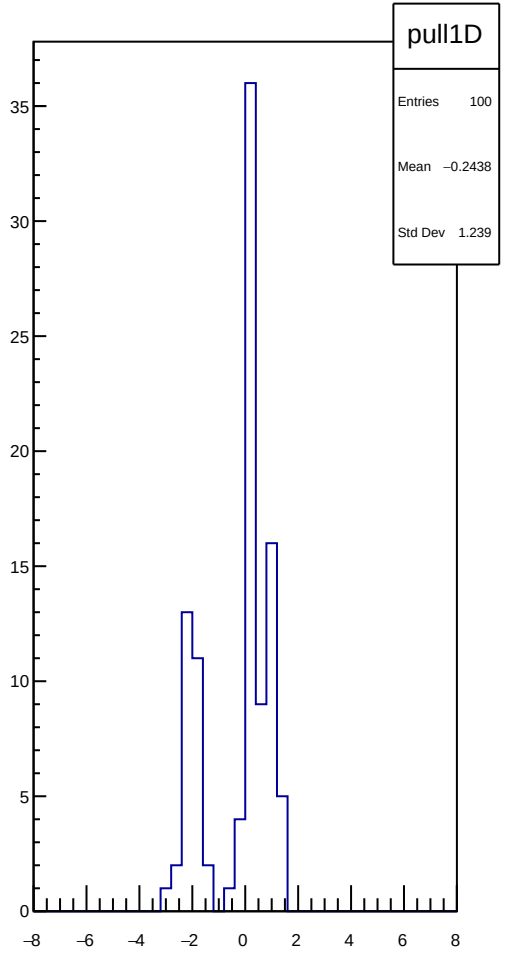

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 26.82 / 99
p0 0.1856 ± 0.05594
pull
Entries 100
Mean −85.96
Std Dev 0
pull1D
Entries 100
Mean 0.08422
Std Dev 0.511

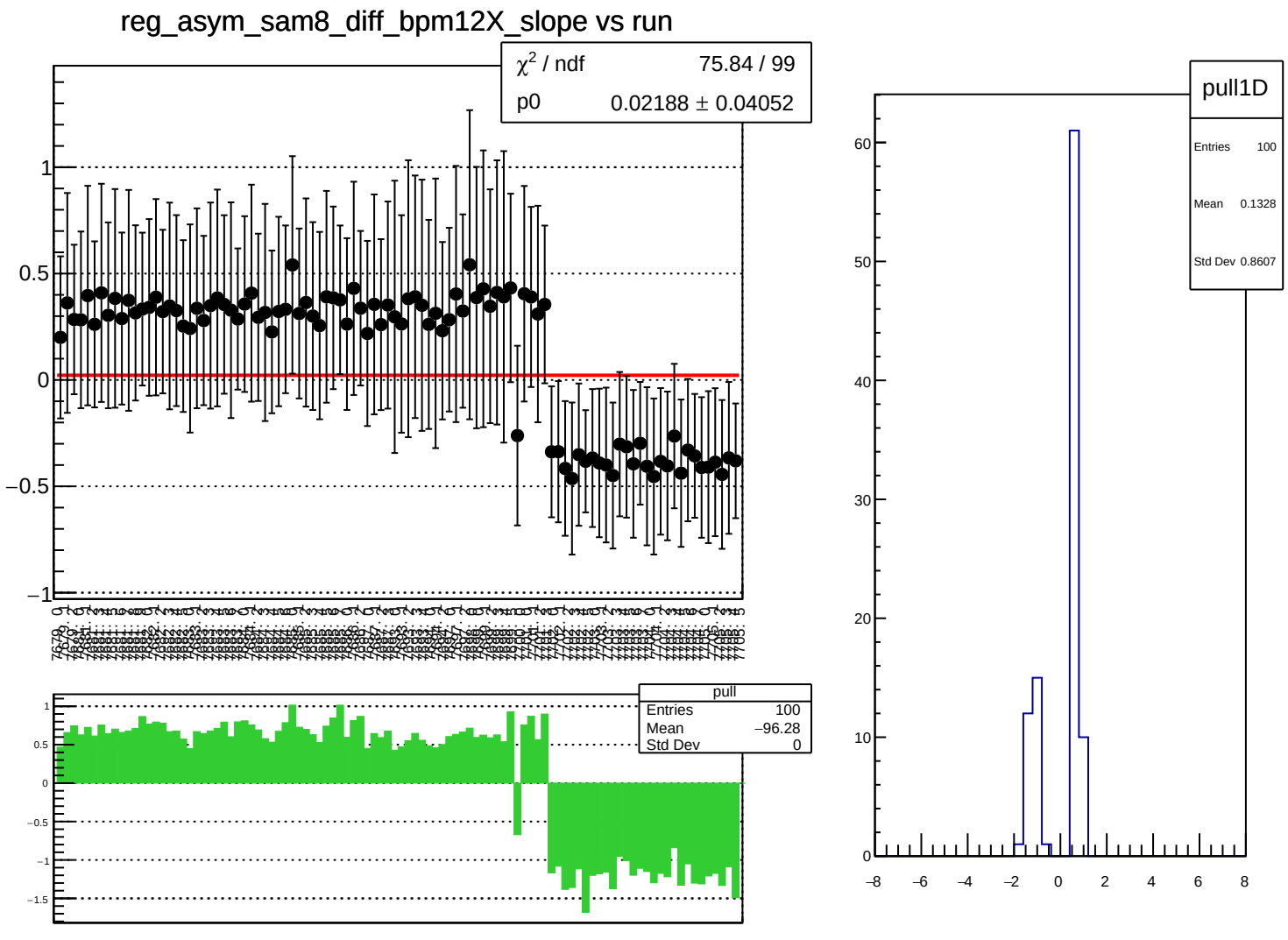

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 230 / 99
p0 25.84 ± 0.4101
pull
Entries 100
Mean 112.7
Std Dev 0
pull1D
Entries 100
Mean −0.5065
Std Dev 1.43

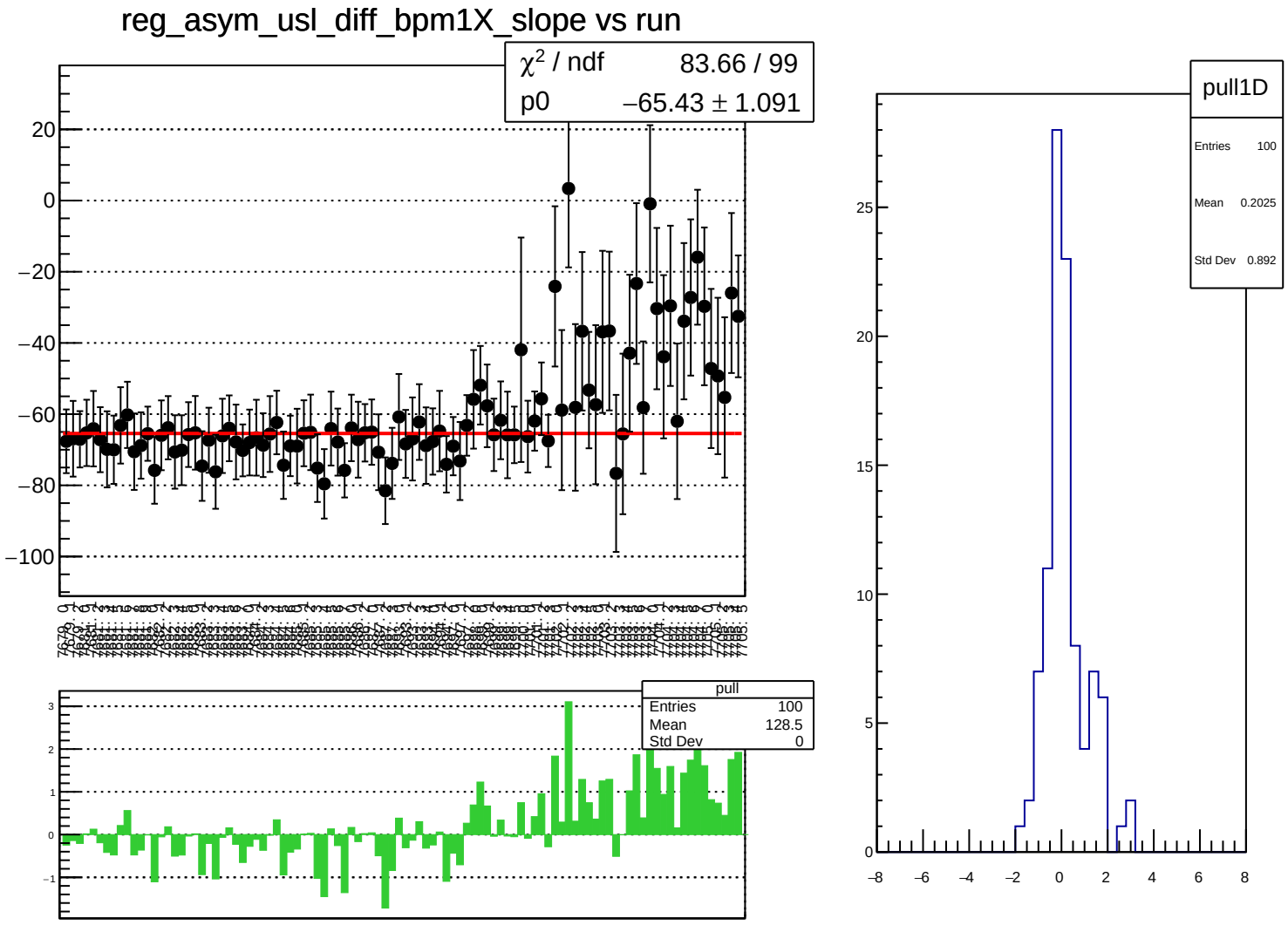

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 221.2 / 99
p0 −41.99 ± 0.5868
pull
Entries 100
Mean 111.9
Std Dev 0
pull1D
Entries 100
Mean 0.4256
Std Dev 1.425

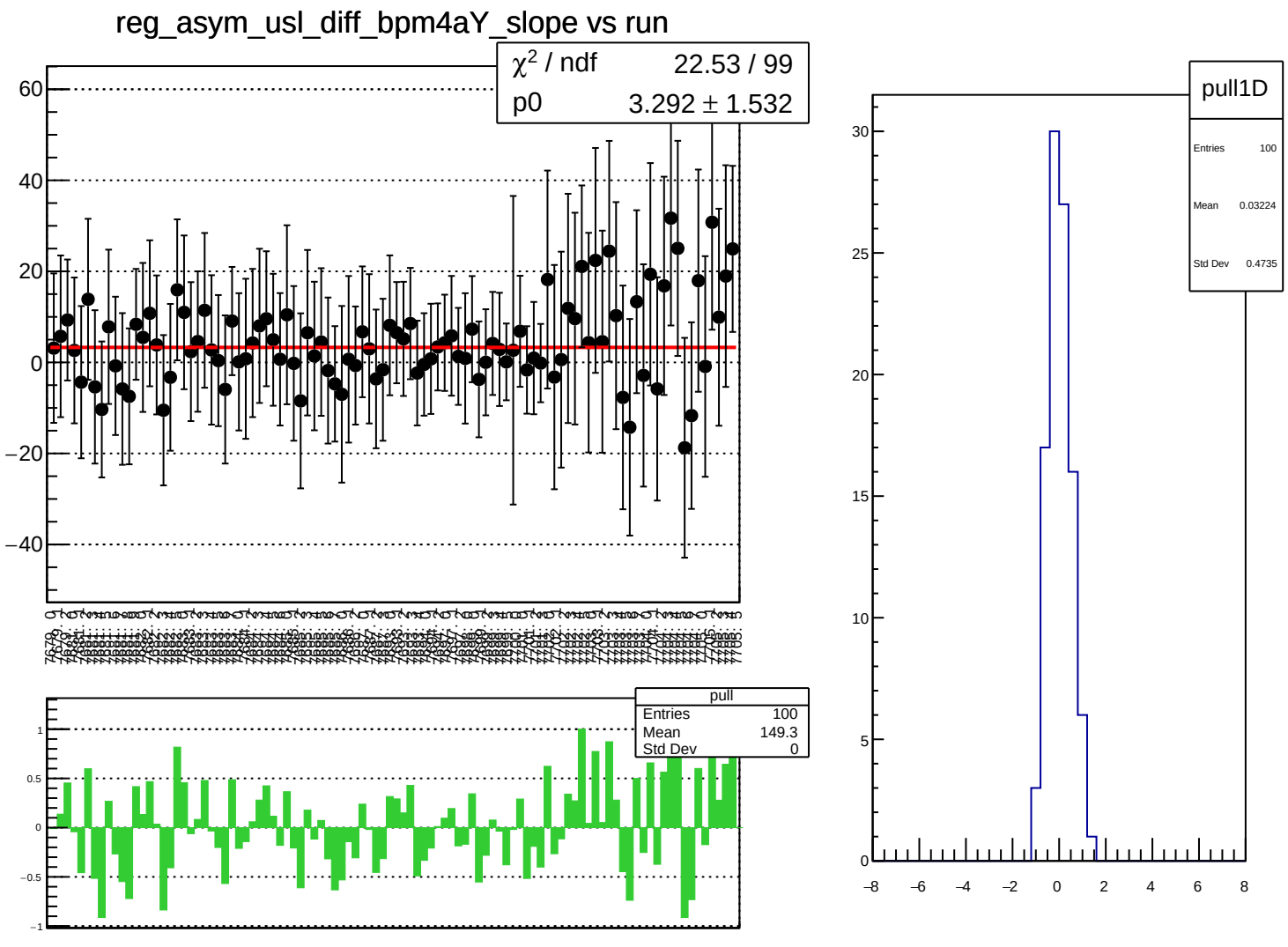

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 191.9 / 99
p0 −49.77 ± 0.3316
pull
Entries 100
Mean 104.2
Std Dev 0
pull1D
Entries 100
Mean 0.4953
Std Dev 1.294

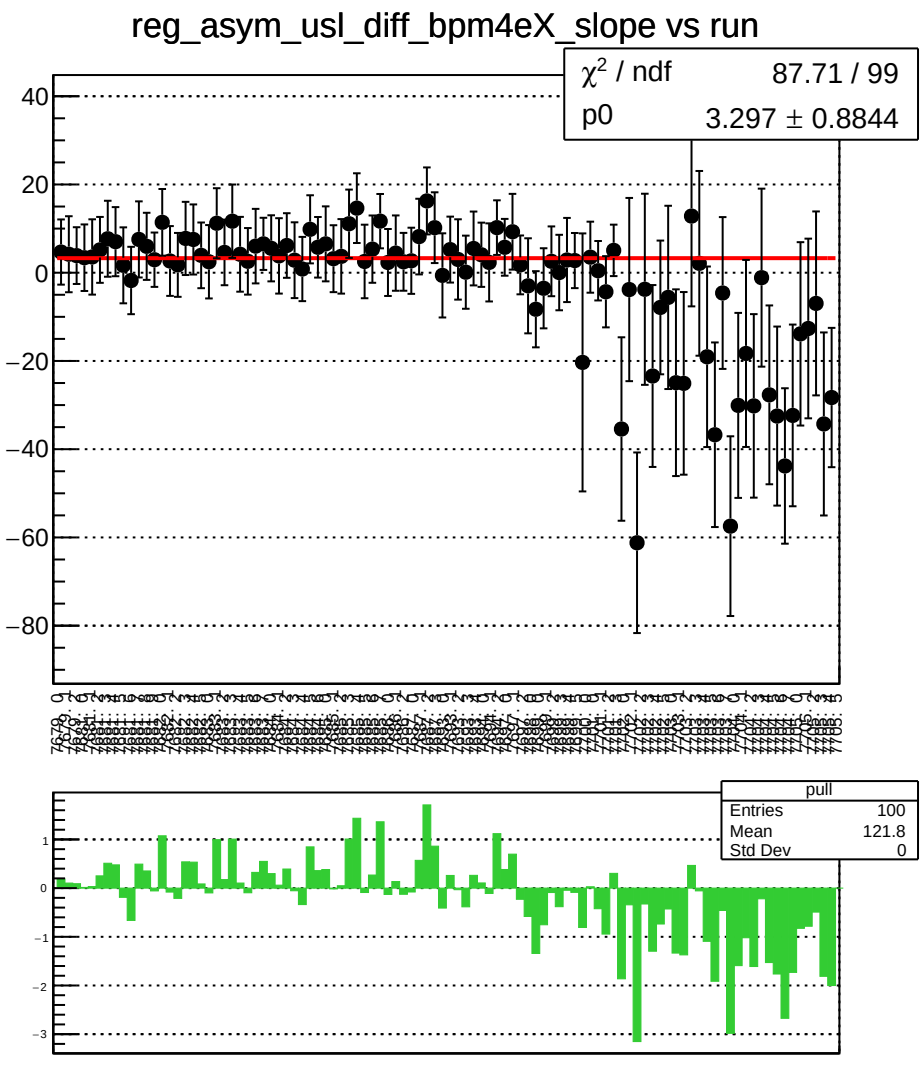

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 159.4 / 99
p0 38.14 ± 0.8617
pull
Entries 100
Mean 139.6
Std Dev 0

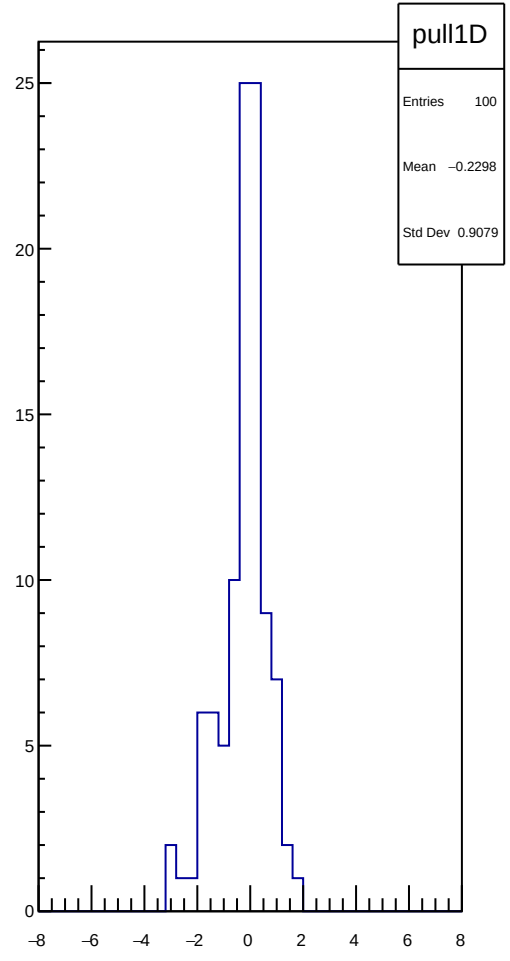

pull1D
Entries 100
Mean −0.2438
Std Dev 1.239

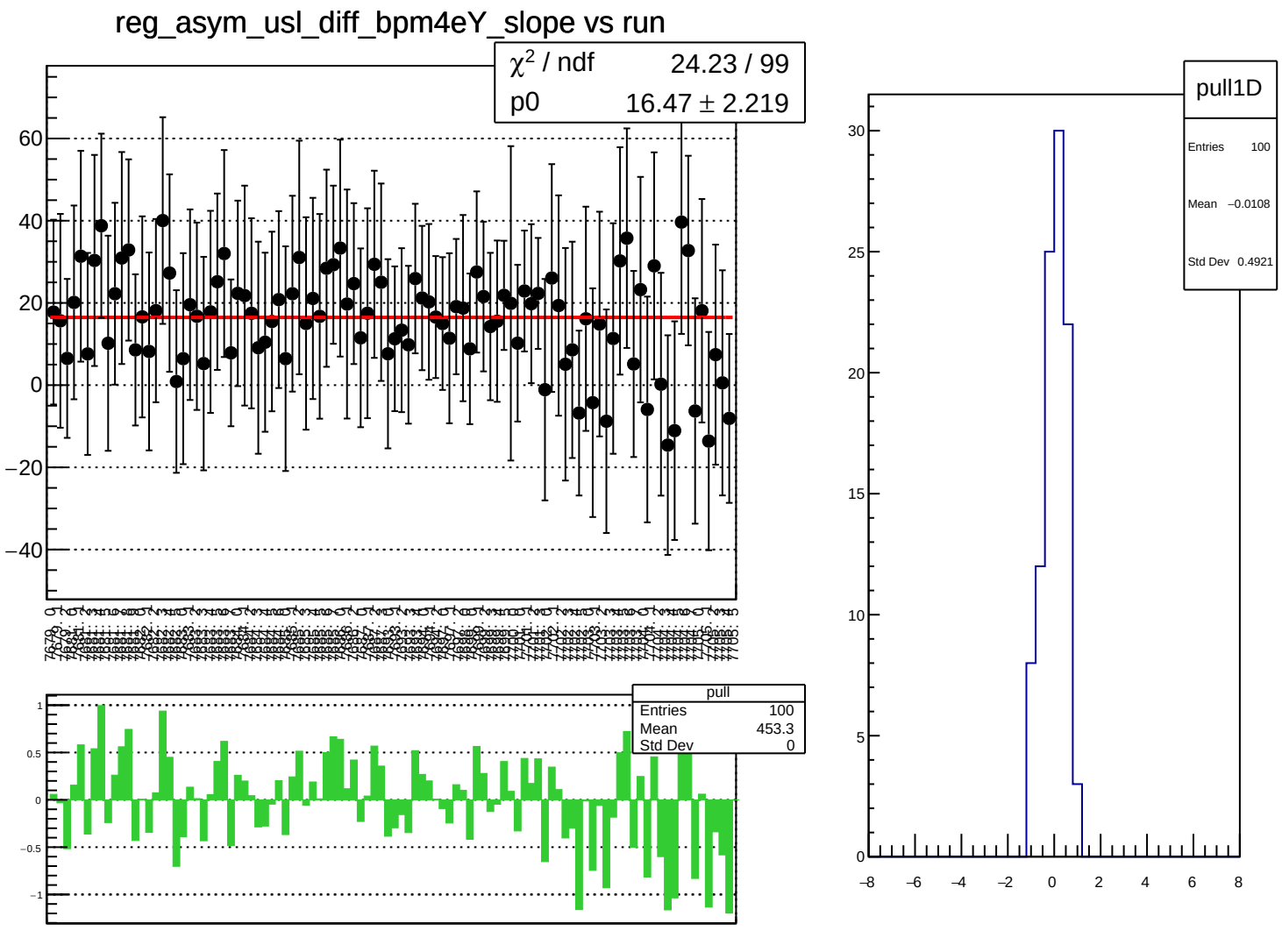

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 75.84 / 99
p0 0.02188 ± 0.04052
pull
Entries 100
Mean −96.28
Std Dev 0
pull1D
Entries 100
Mean 0.1328
Std Dev 0.8607

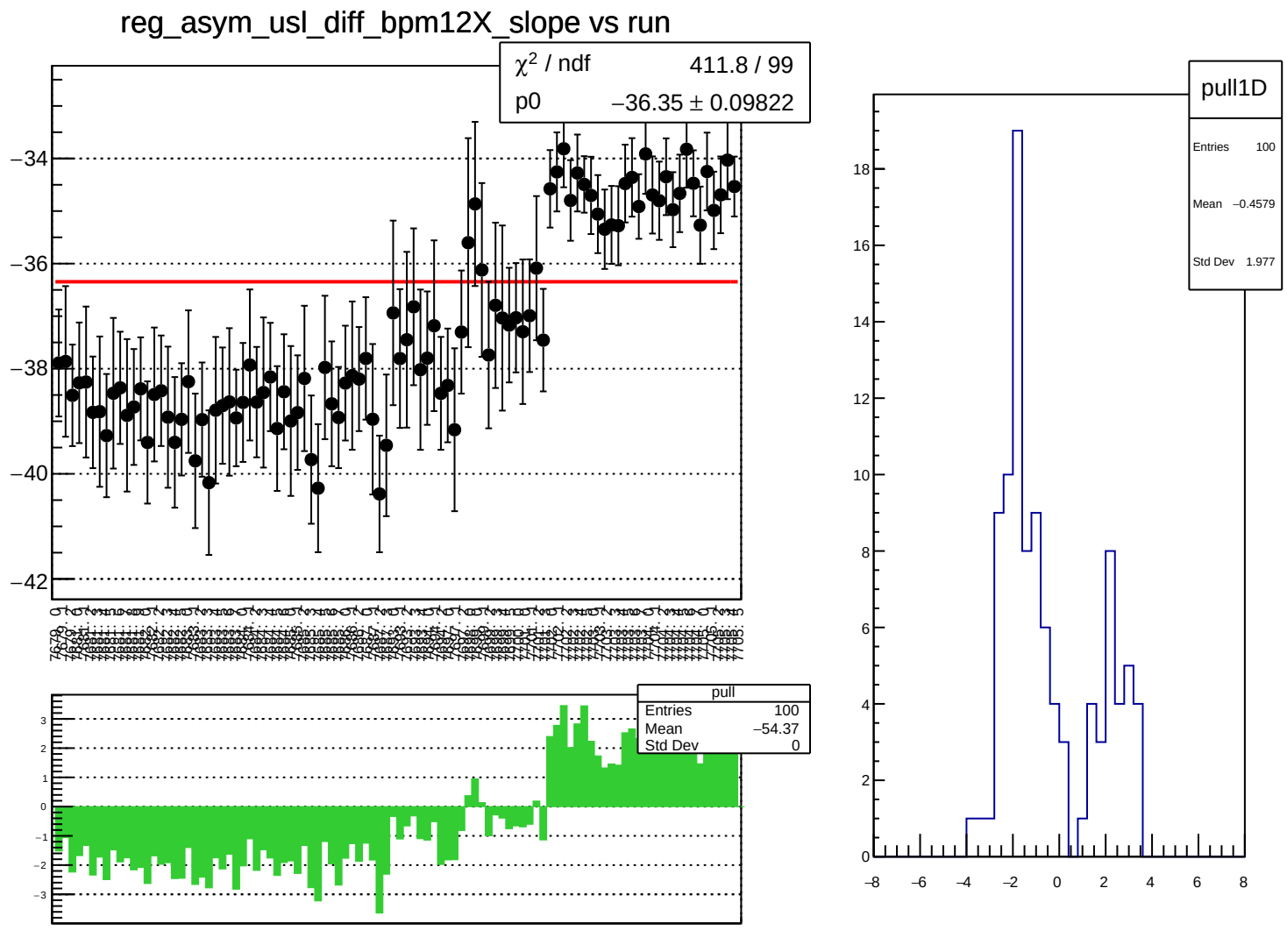

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 83.66 / 99
p0 −65.43 ± 1.091
20
0
−20
−40
−60
−80
−100
pull
Entries 100
Mean 128.5
Std Dev 0
3
2
1
0
−1
pull1D
Entries 100
Mean 0.2025
Std Dev 0.892
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

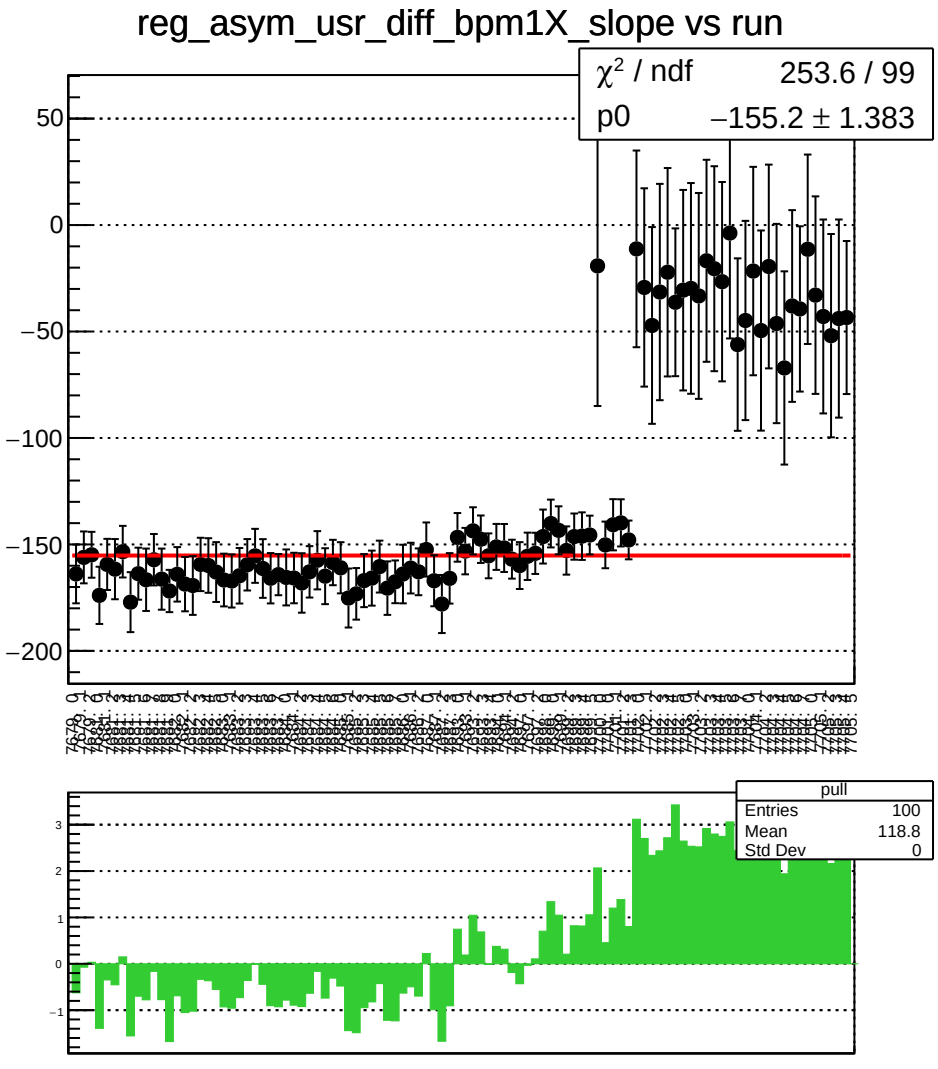

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 22.53 / 99
p0 3.292 ± 1.532
pull
Entries 100
Mean 149.3
Std Dev 0
pull1D
Entries 100
Mean 0.03224
Std Dev 0.4735

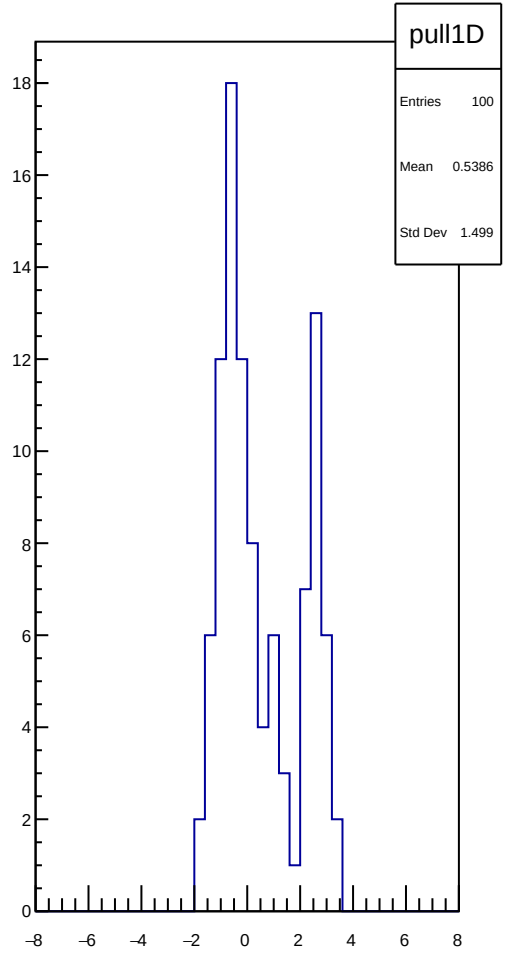

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 87.71 / 99
p0 3.297 ± 0.8844
pull
Entries 100
Mean 121.8
Std Dev 0

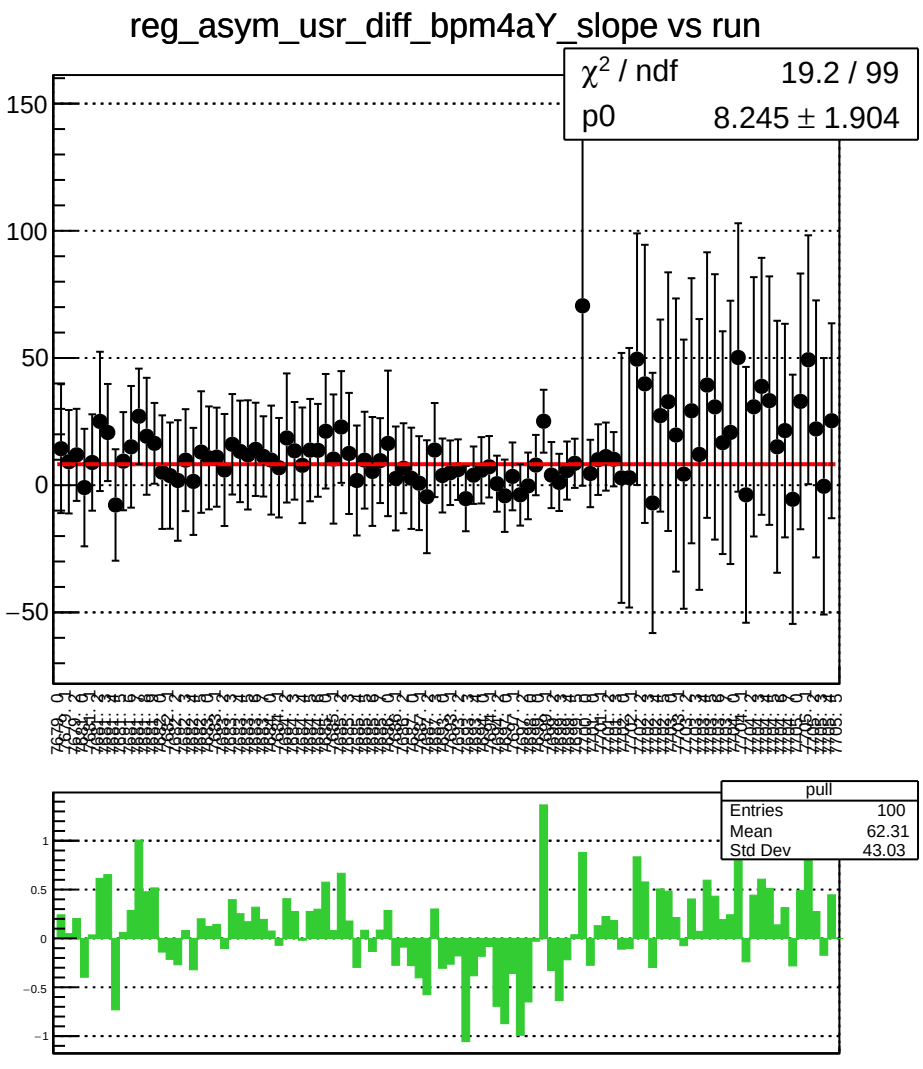

pull1D
Entries 100
Mean −0.2298
Std Dev 0.9079

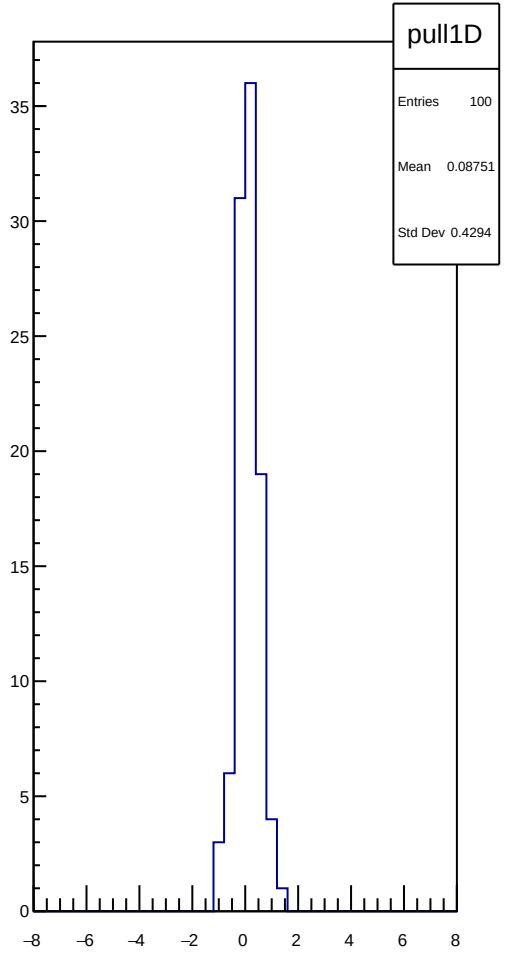

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 24.23 / 99
p0 16.47 ± 2.219
60
40
20
0
−20
−40
pull
Entries 100
Mean 453.3
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 100
Mean −0.0108
Std Dev 0.4921
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

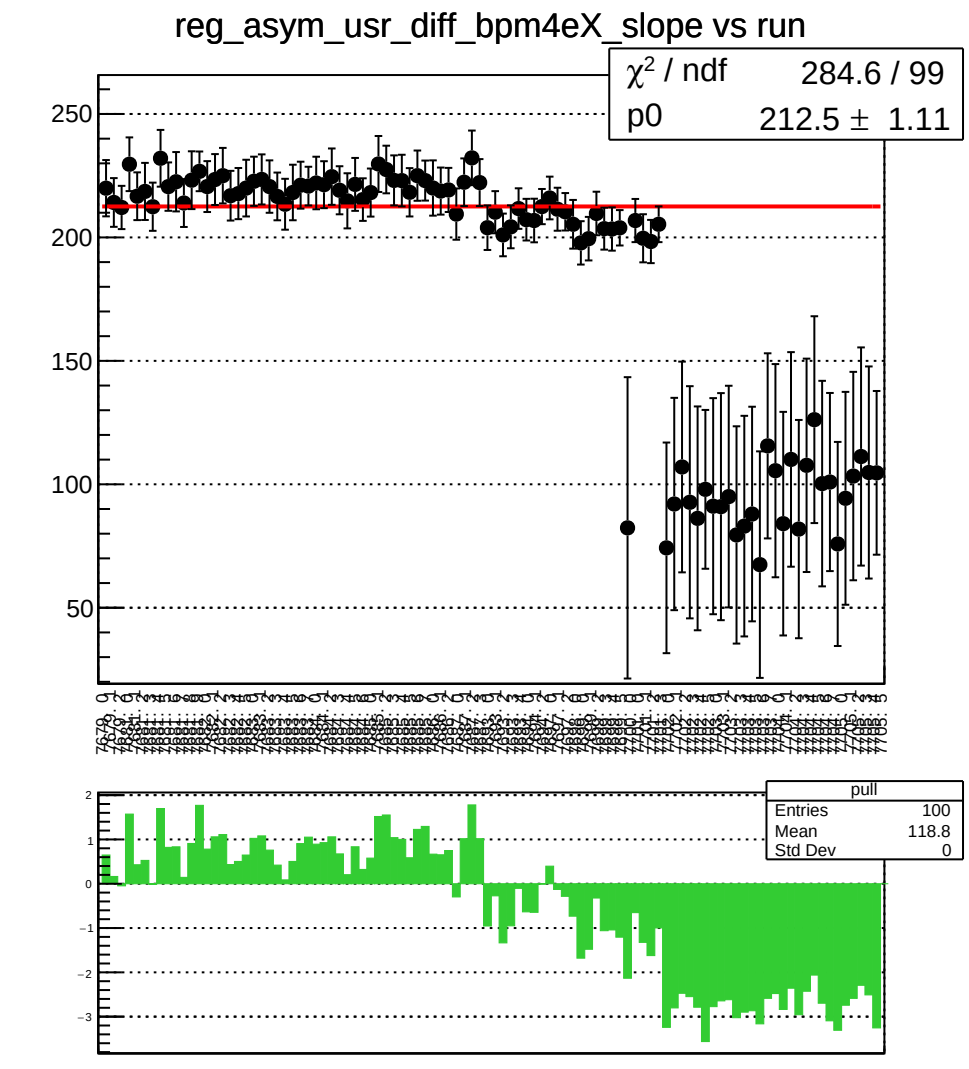

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 411.8 / 99
p0 −36.35 ± 0.09822
−34
−36
−38
−40
−42
pull
Entries 100
Mean −54.37
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean −0.4579
Std Dev 1.977
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

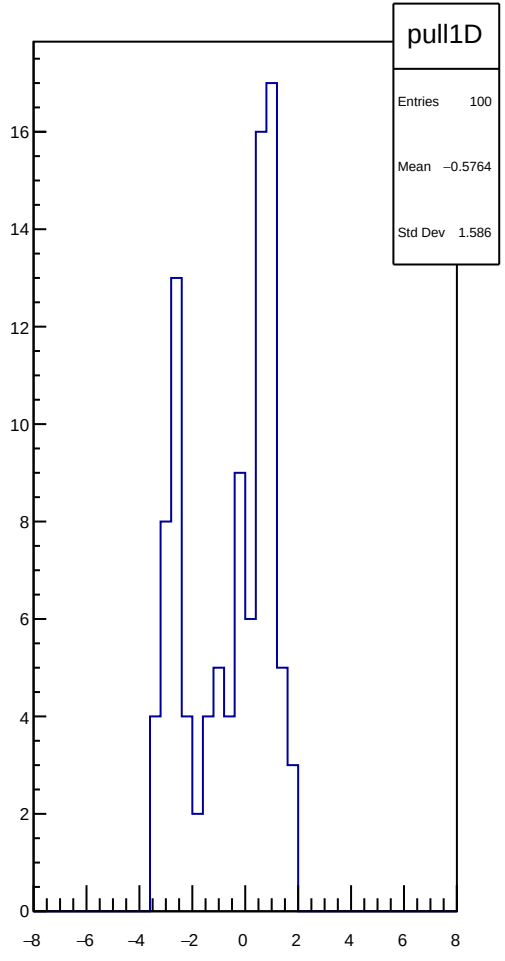

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 253.6 / 99
p0 −155.2 ± 1.383
50
0
−50
−100
−150
−200
pull
Entries 100
Mean 118.8
Std Dev 0
3
2
1
0
−1

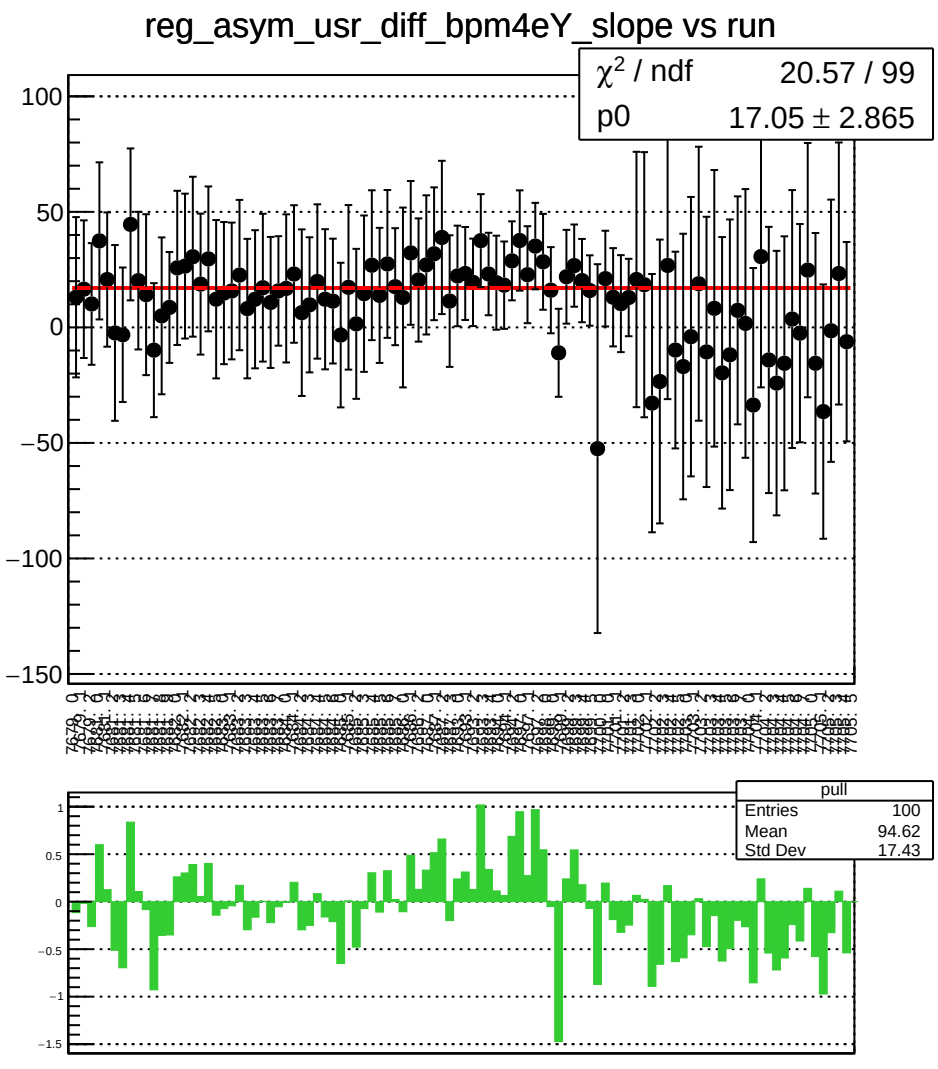

pull1D
Entries 100
Mean 0.5386
Std Dev 1.499
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

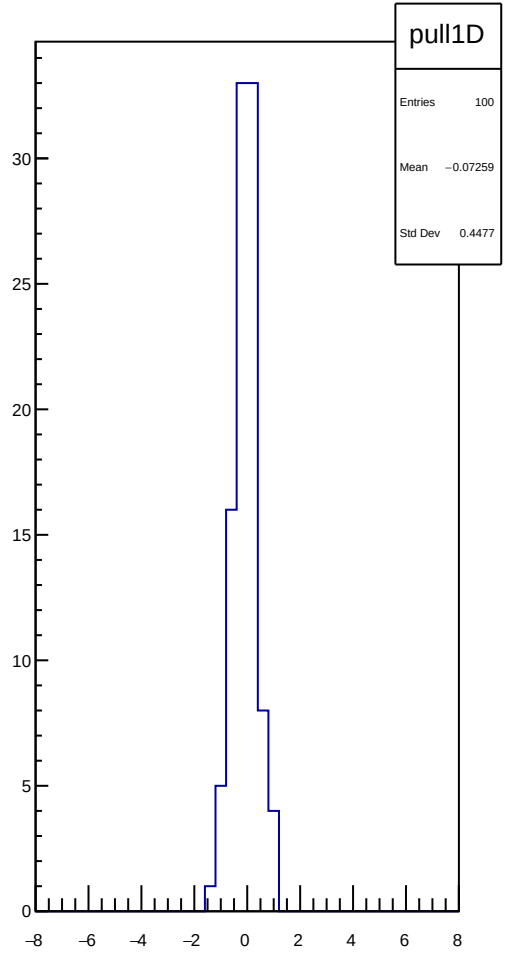

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 19.2 / 99
p0 8.245 ± 1.904
150
100
50
0
−50
pull
Entries 100
Mean 62.31
Std Dev 43.03
1
0.5
0
−0.5
−1

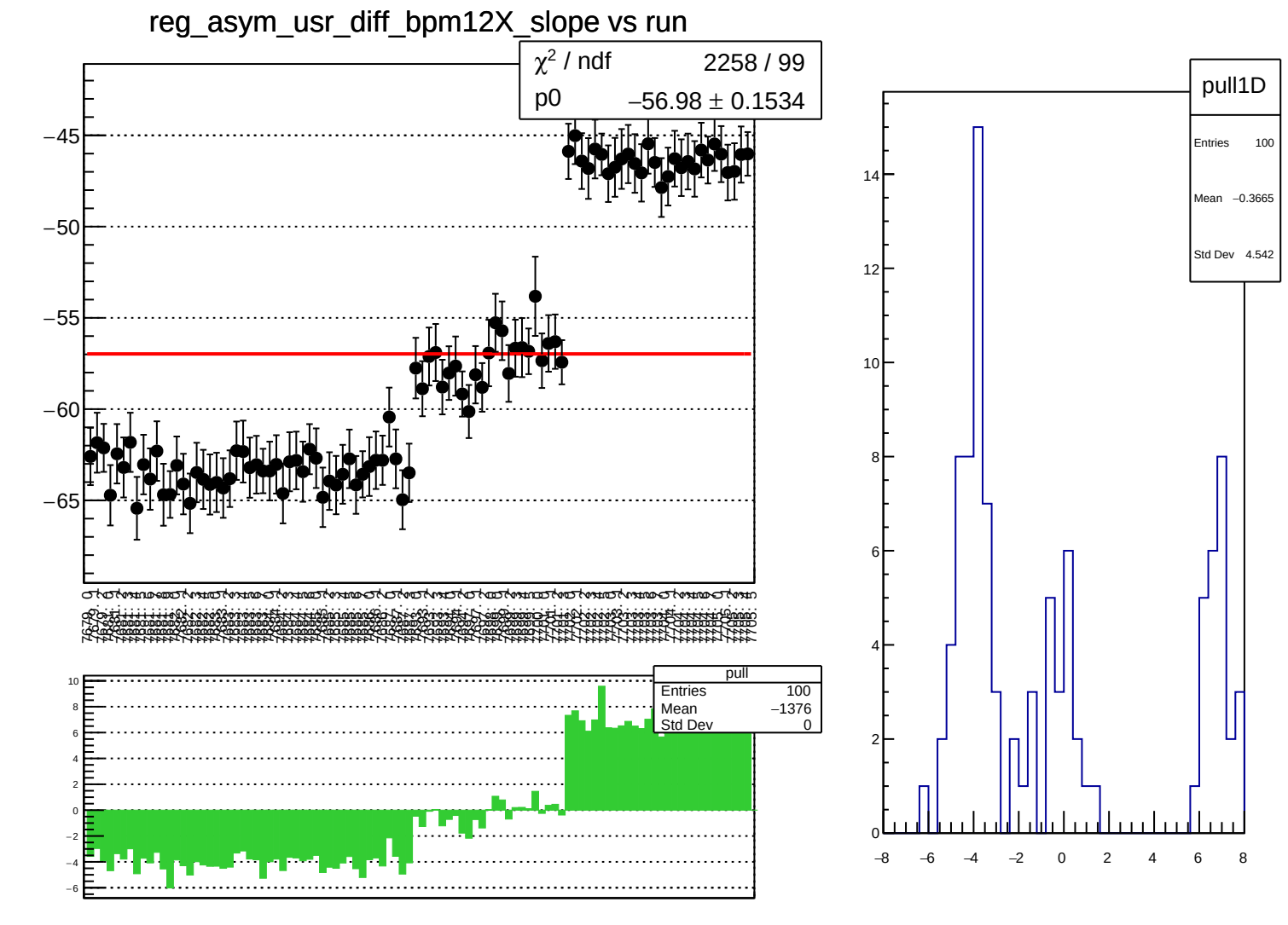

pull1D
Entries 100
Mean 0.08751
Std Dev 0.4294
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

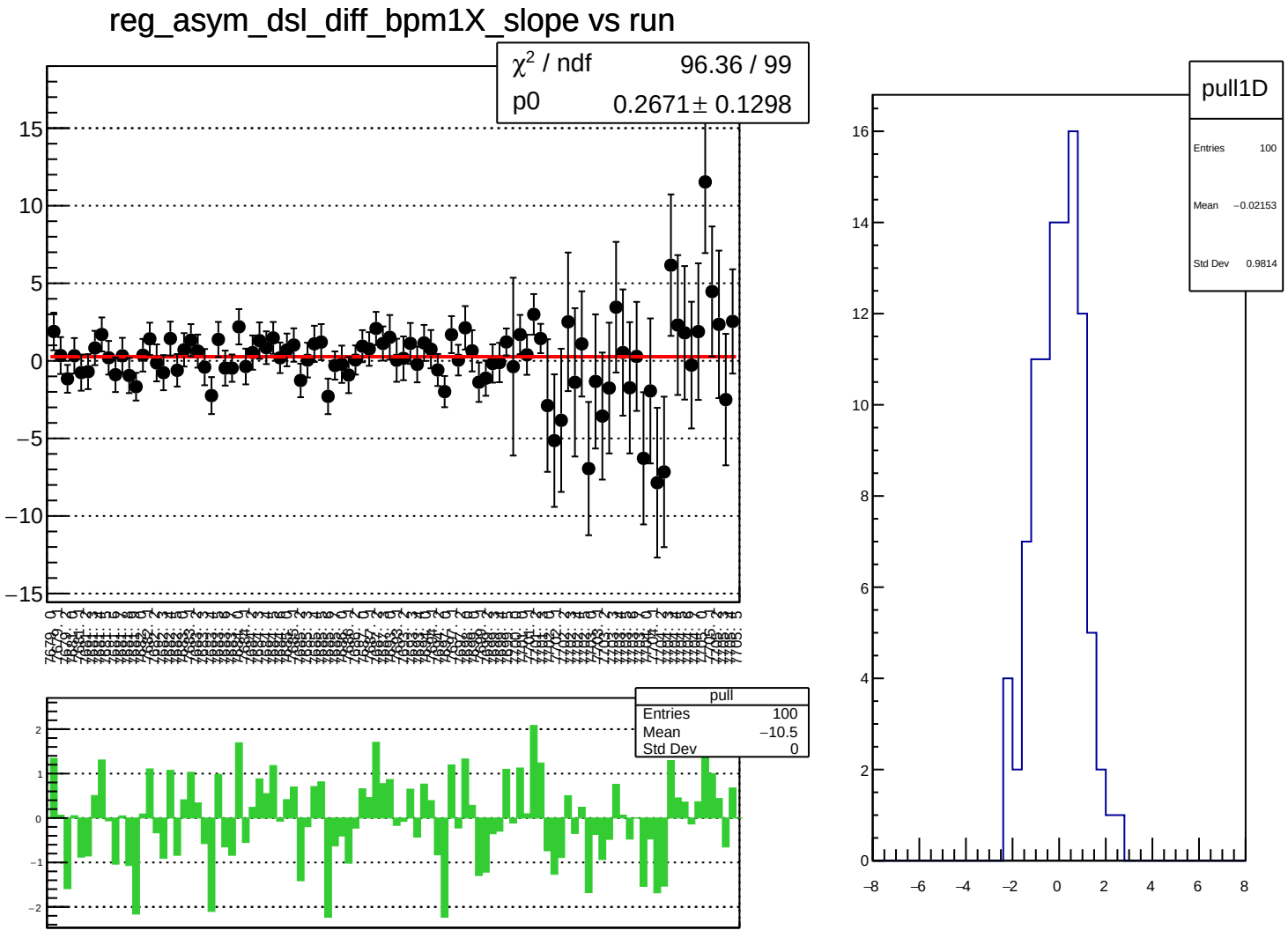

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 284.6 / 99
p0 212.5 ± 1.11
250
200
150
100
50
pull
Entries 100
Mean 118.8
Std Dev 0
2
1
0
−1
−2
−3

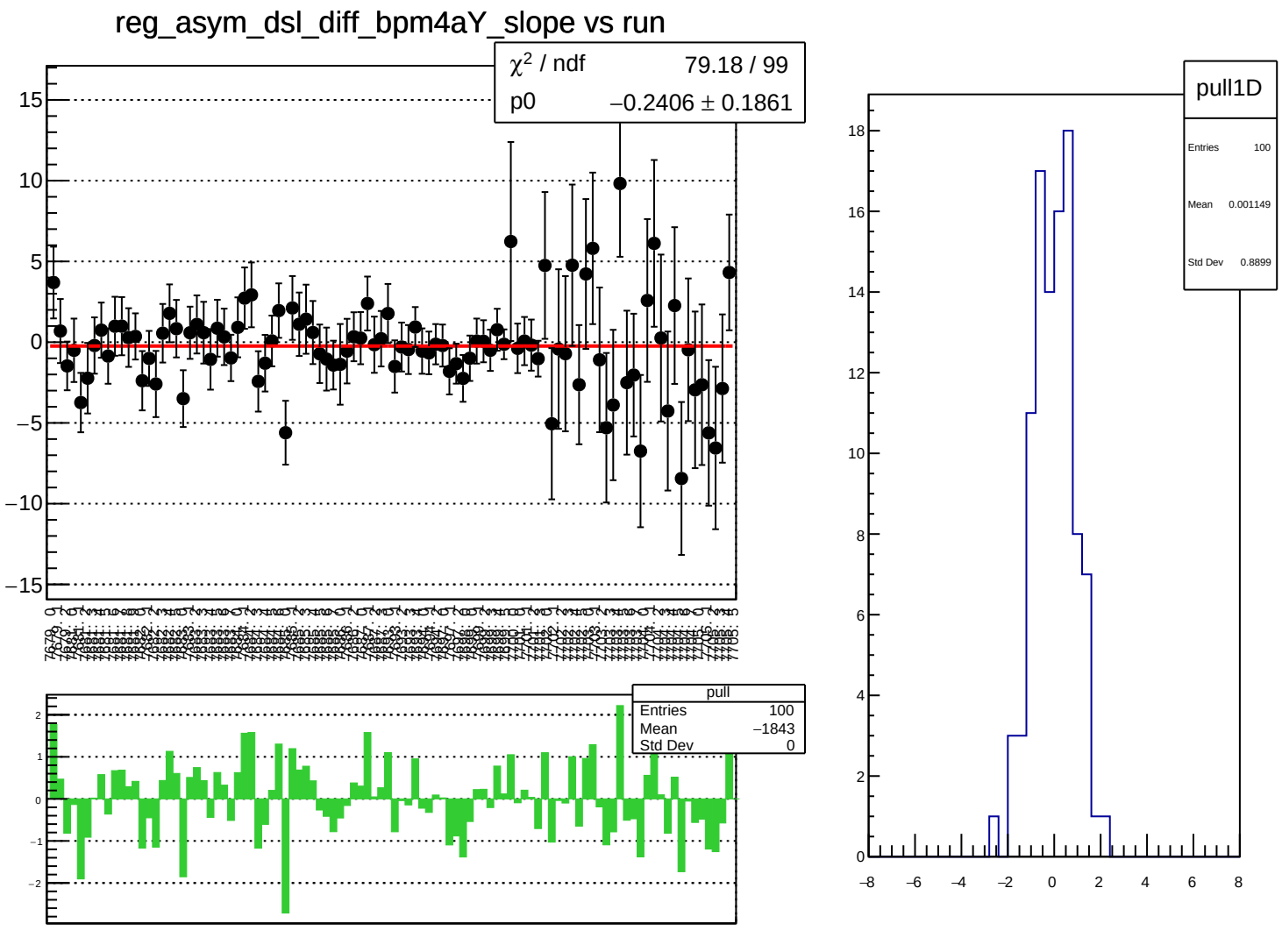

pull1D
Entries 100
Mean −0.5764
Std Dev 1.586
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

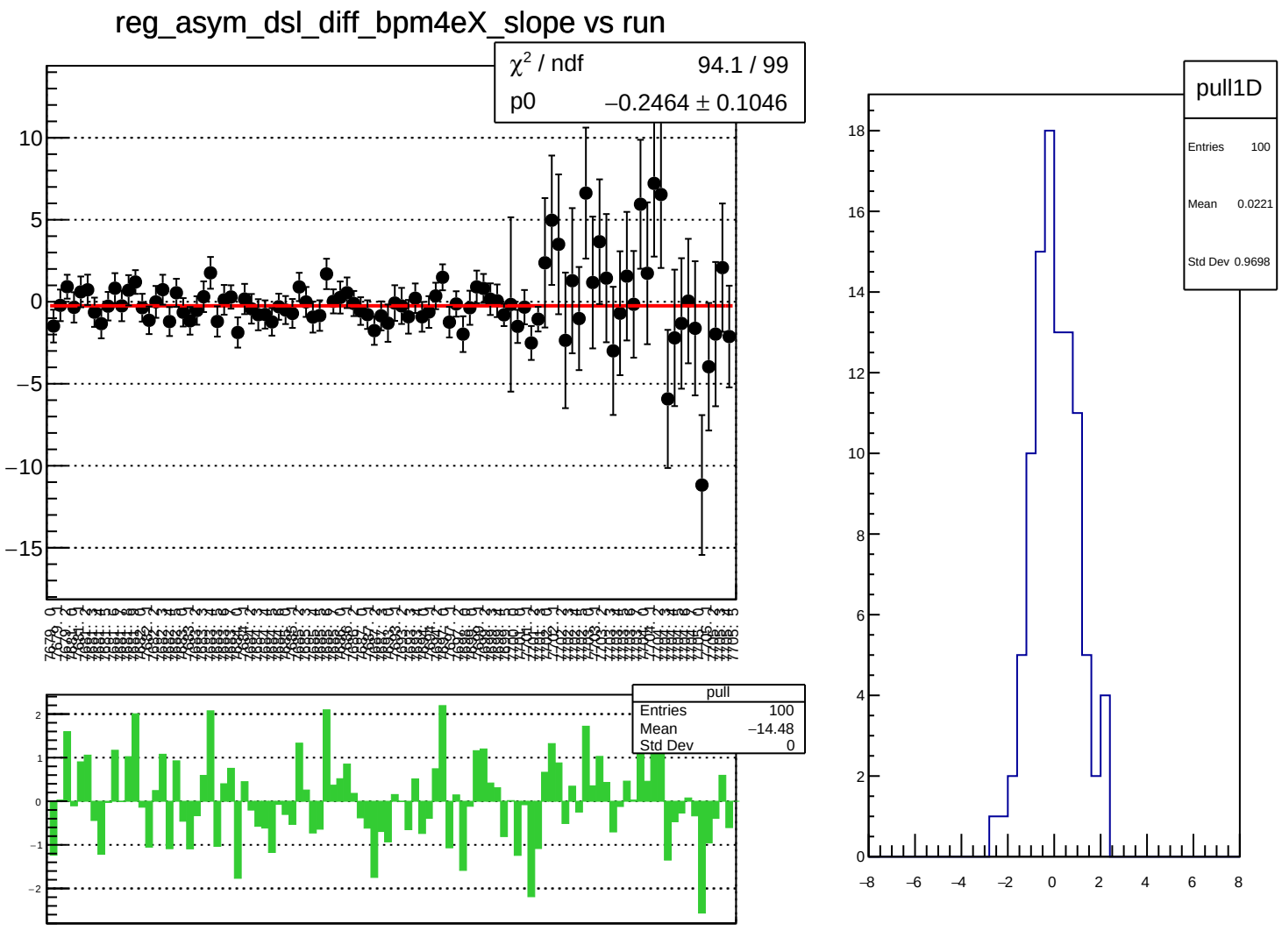

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 20.57 / 99
p0 17.05 ± 2.865
100
50
0
−50
−100
−150
pull
Entries 100
Mean 94.62
Std Dev 17.43
1
0.5
0
−0.5
−1
−1.5

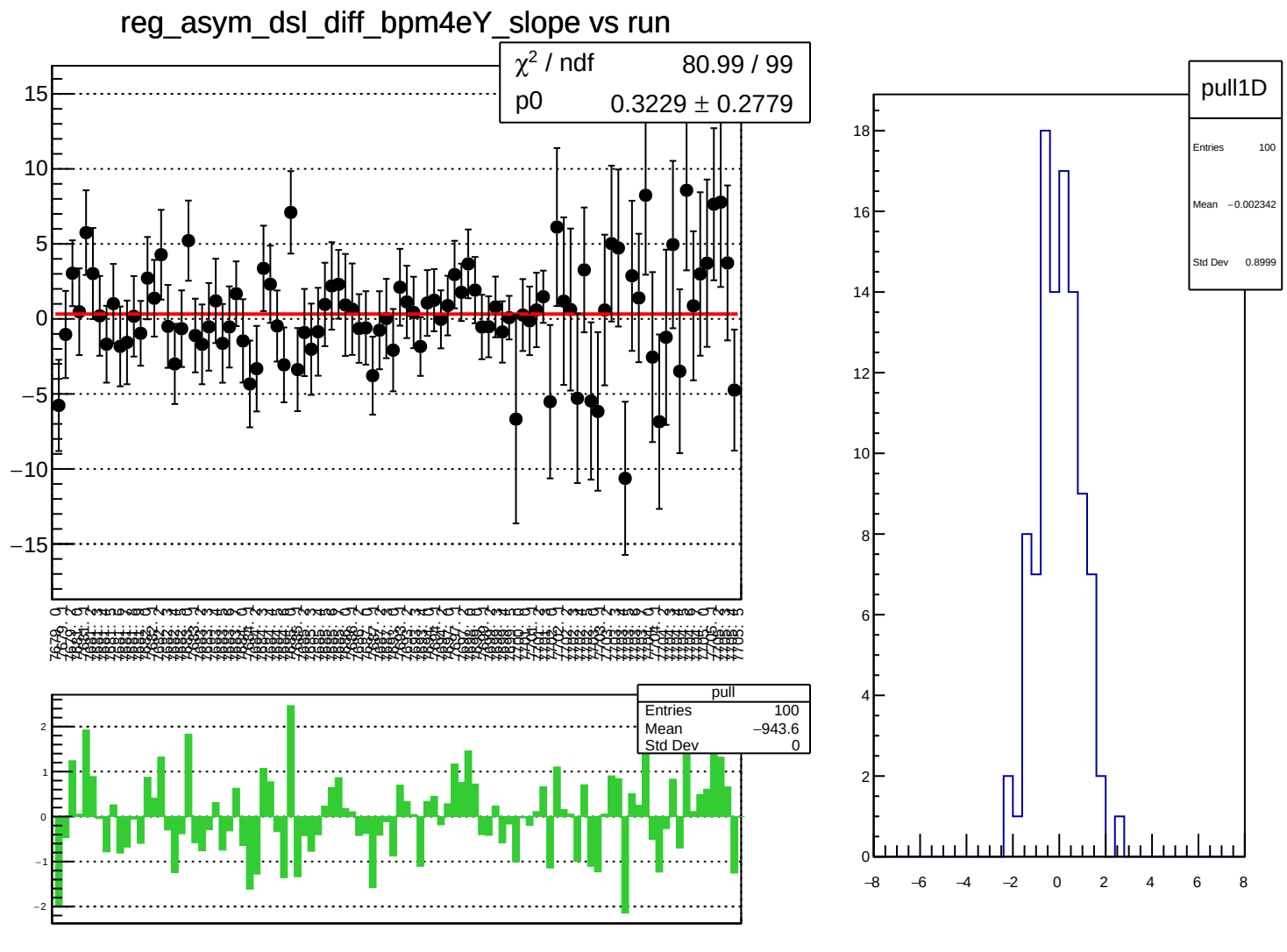

pull1D
Entries 100
Mean −0.07259
Std Dev 0.4477
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

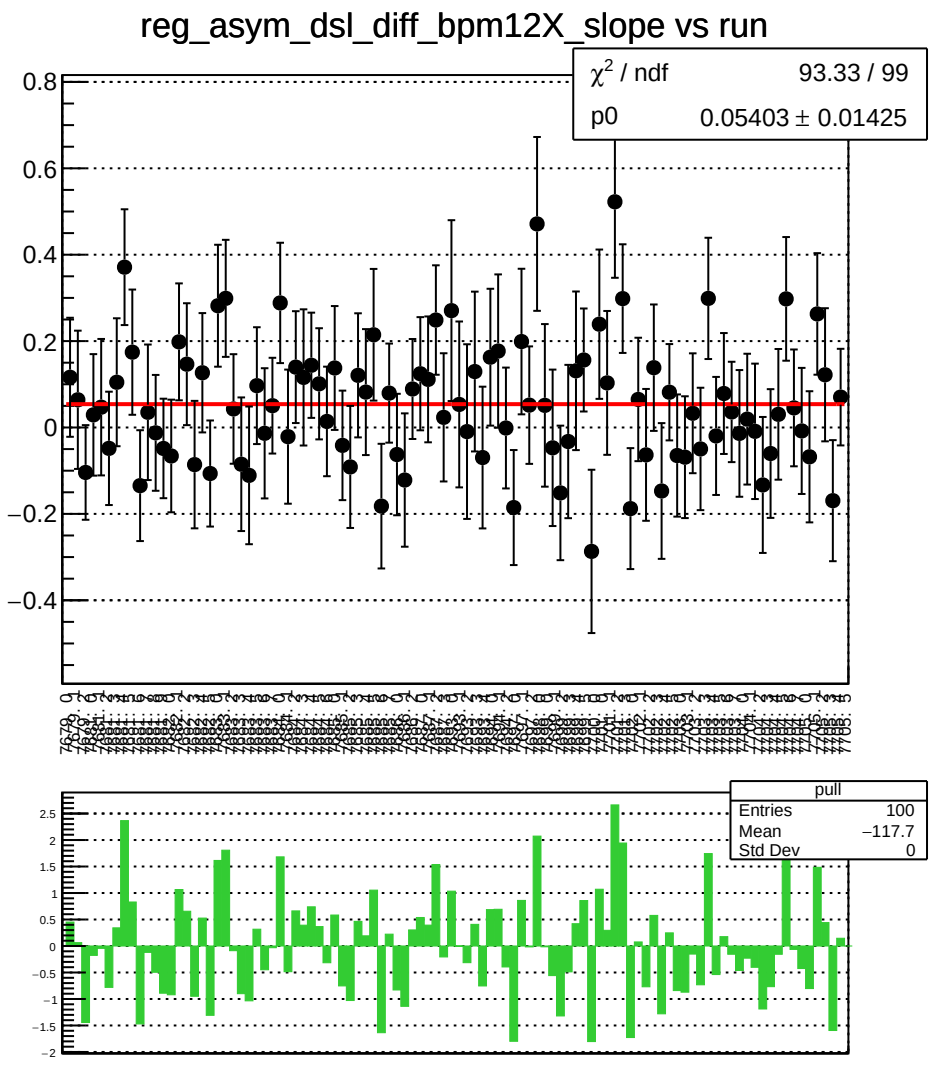

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 2258 / 99
p0 −56.98 ± 0.1534
−45
−50
−55
−60
−65
pull
Entries 100
Mean −1376
Std Dev 0
10
8
6
4
2
0
−2
−4
−6
pull1D
Entries 100
Mean −0.3665
Std Dev 4.542
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

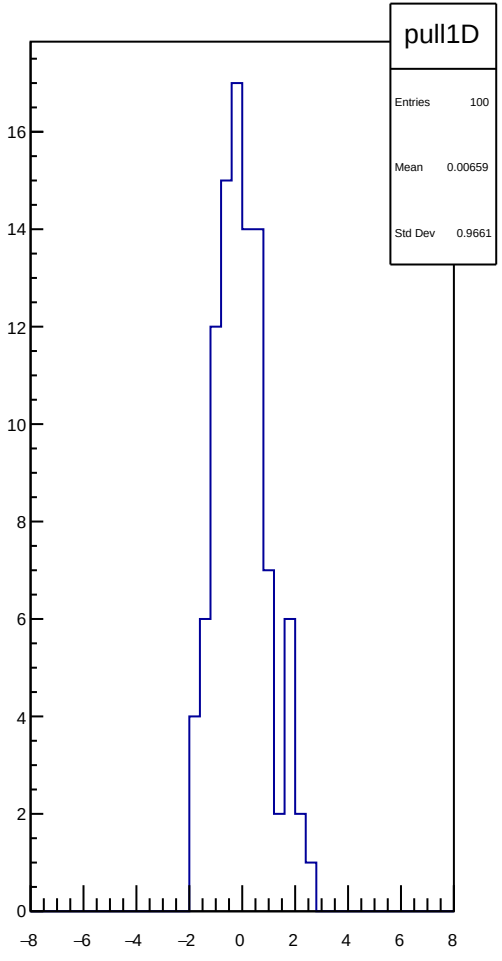

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 96.36 / 99
p0 0.2671 ± 0.1298
pull
Entries 100
Mean −10.5
Std Dev 0
pull1D
Entries 100
Mean −0.02153
Std Dev 0.9814

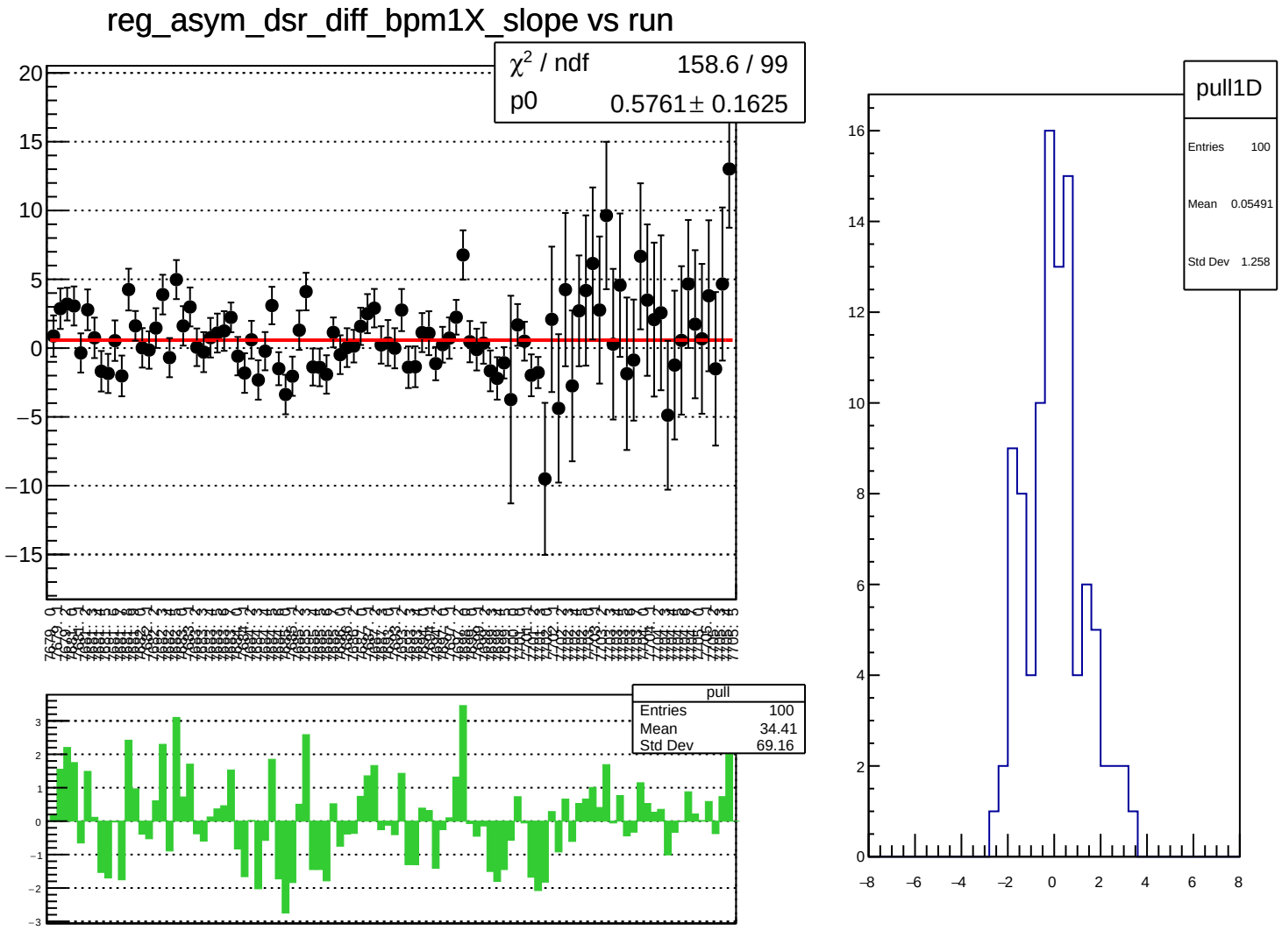

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 79.18 / 99
p0 −0.2406 ± 0.1861
pull
Entries 100
Mean −1843
Std Dev 0
pull1D
Entries 100
Mean 0.001149
Std Dev 0.8899

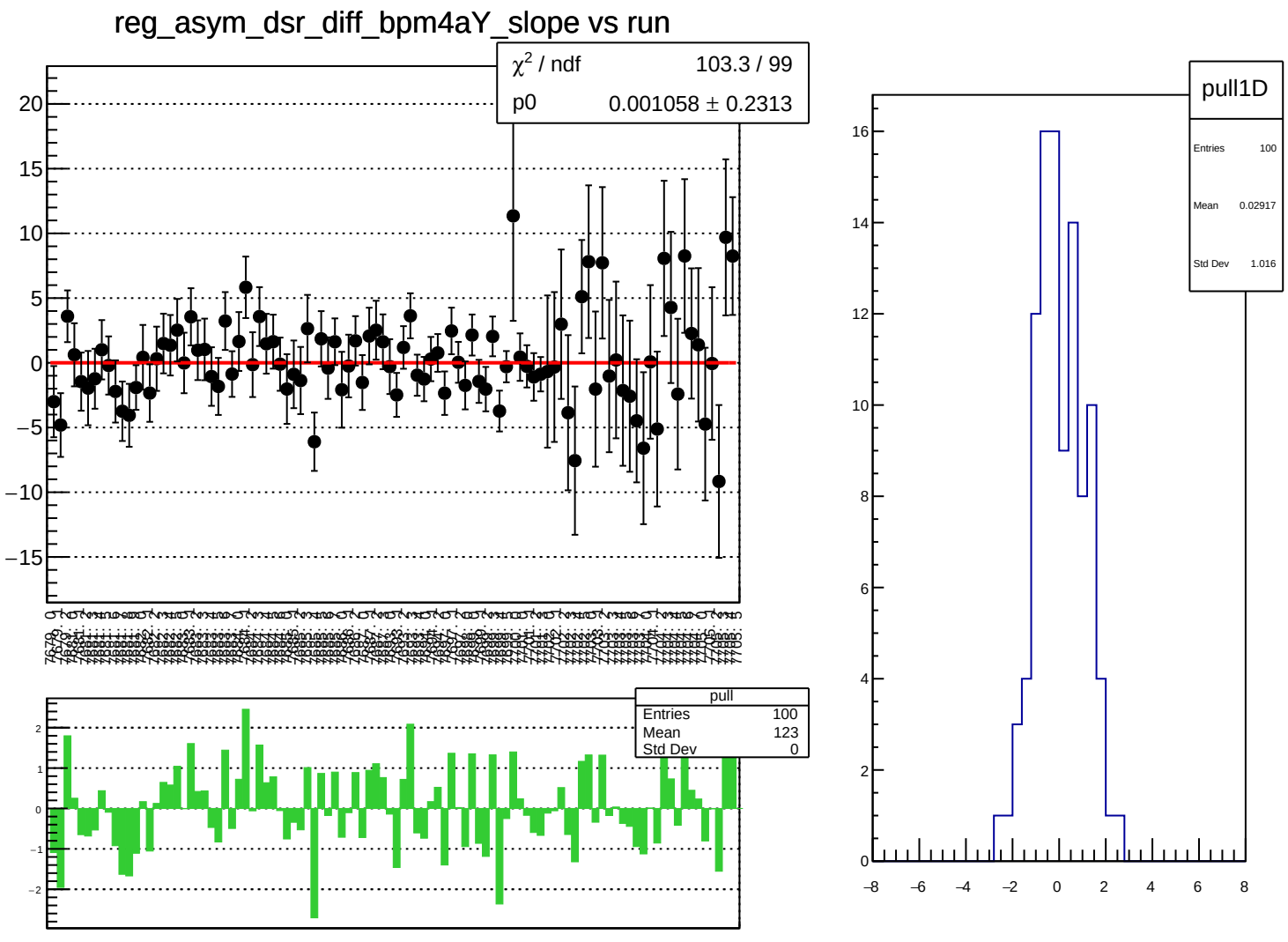

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 94.1 / 99
p0 −0.2464 ± 0.1046
pull
Entries 100
Mean −14.48
Std Dev 0
pull1D
Entries 100
Mean 0.0221
Std Dev 0.9698

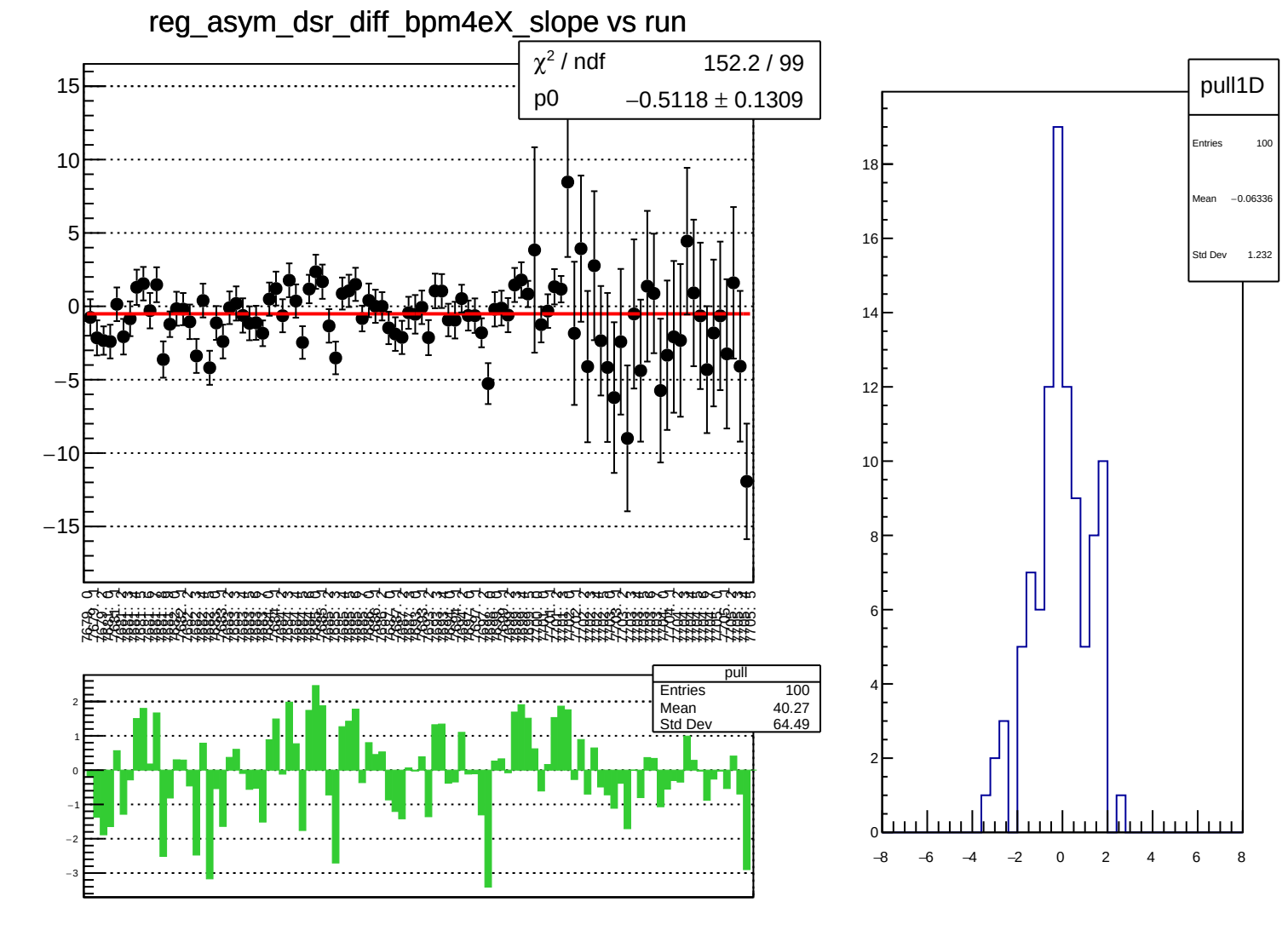

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 80.99 / 99
p0 0.3229 ± 0.2779
pull
Entries 100
Mean −943.6
Std Dev 0
pull1D
Entries 100
Mean −0.002342
Std Dev 0.8999

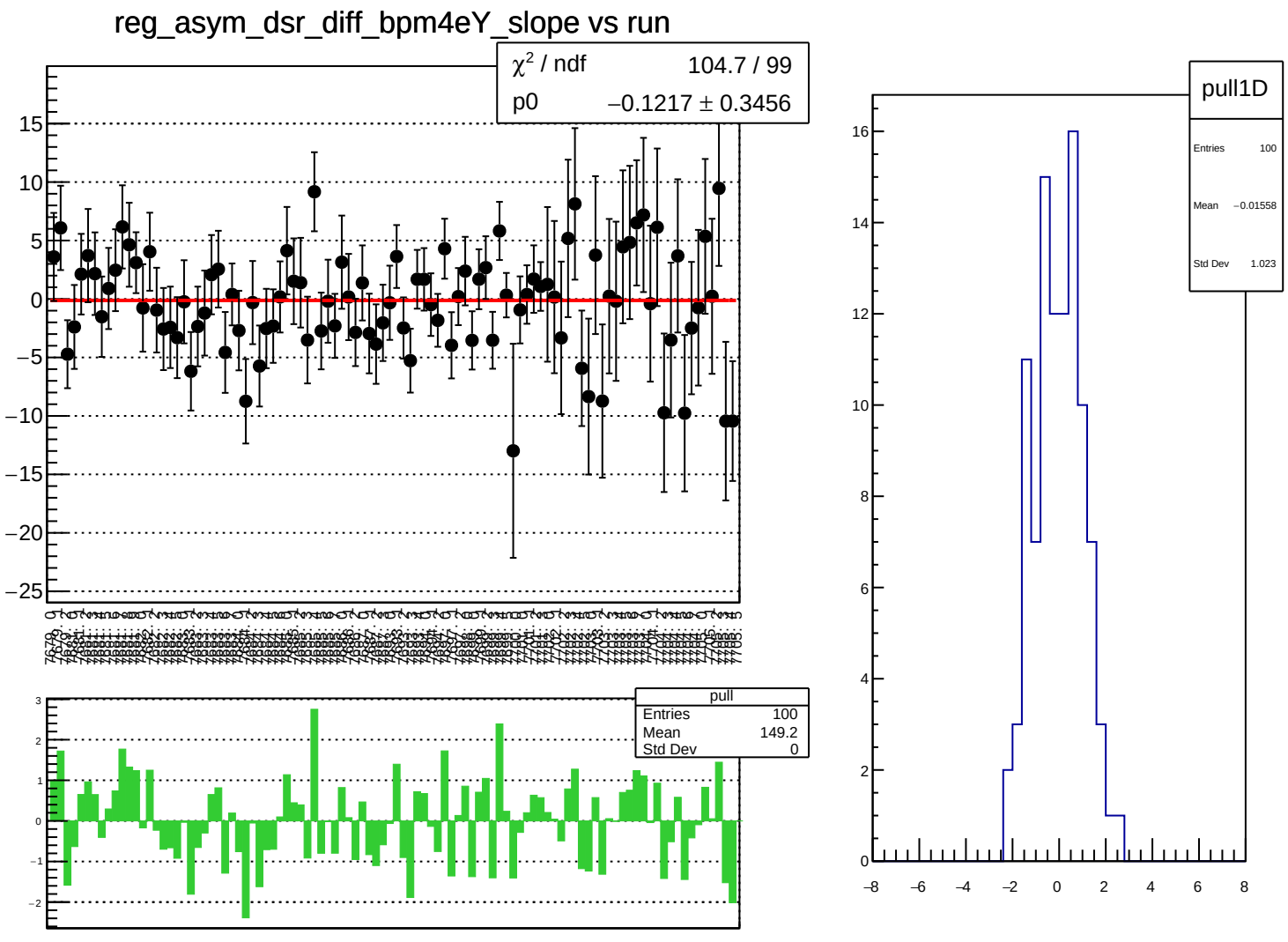

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 93.33 / 99
p0 0.05403 ± 0.01425
pull
Entries 100
Mean −117.7
Std Dev 0

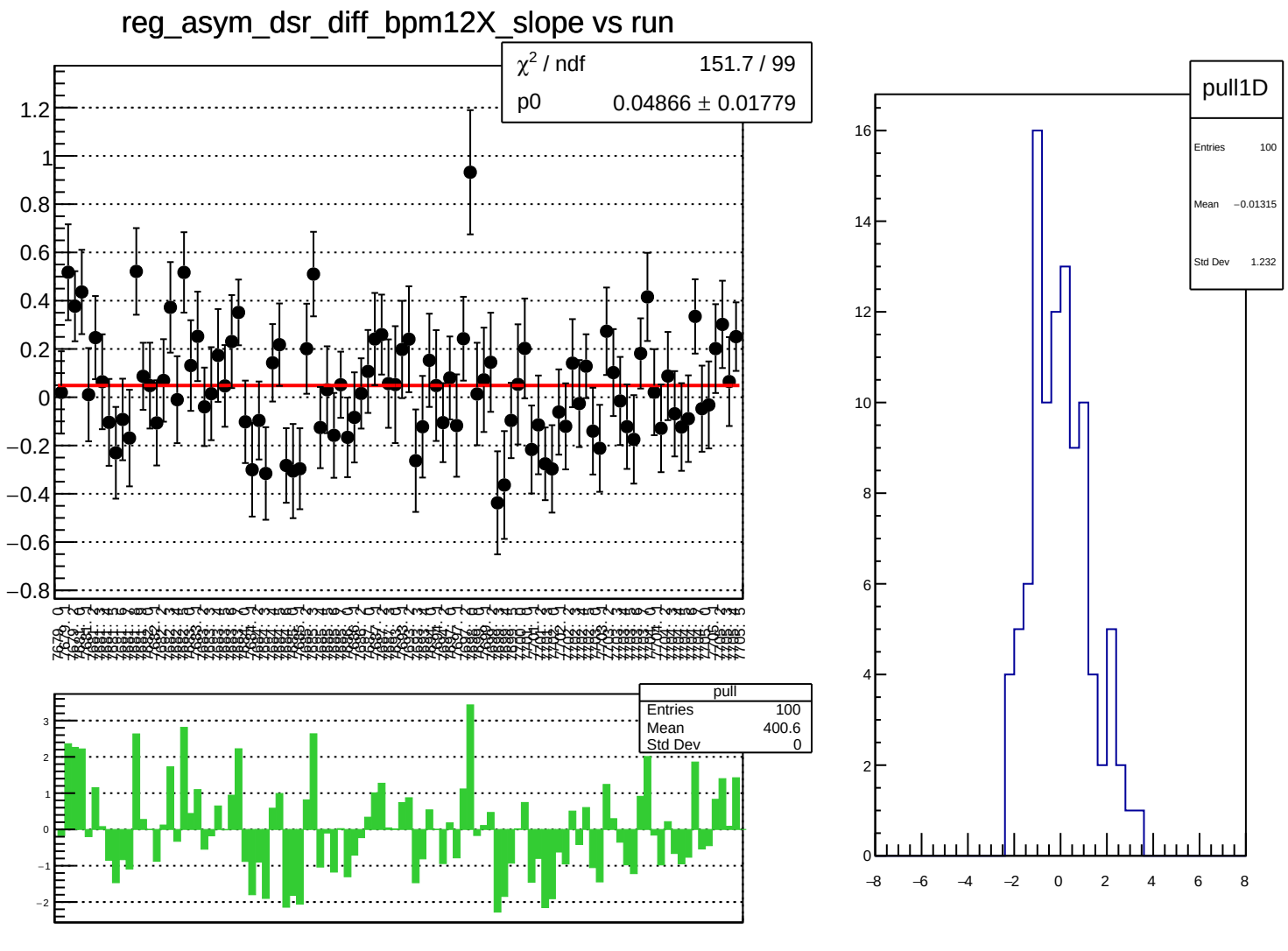

pull1D
Entries 100
Mean 0.00659
Std Dev 0.9661

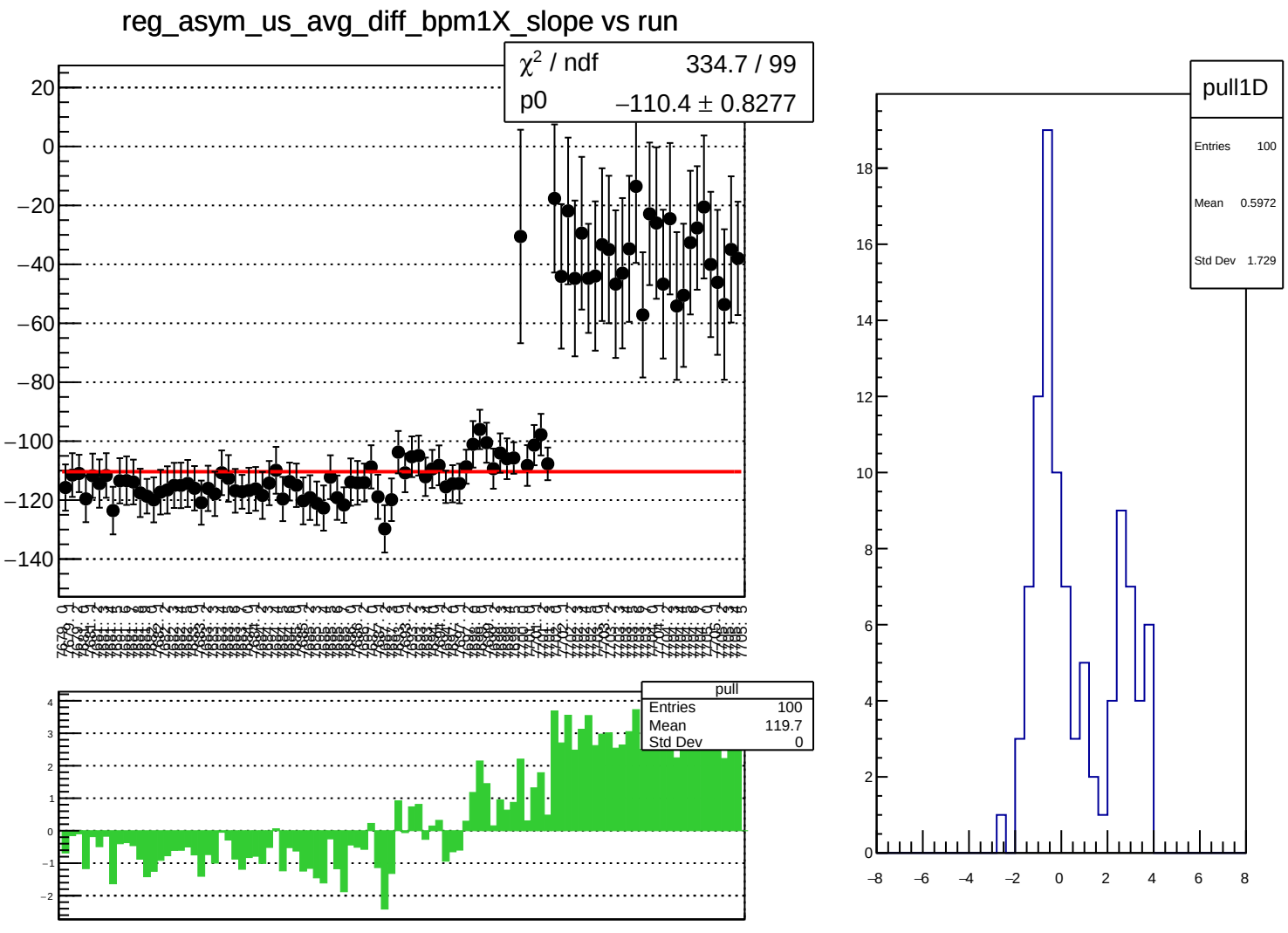

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 158.6 / 99
p0 0.5761± 0.1625
pull
Entries 100
Mean 34.41
Std Dev 69.16
pull1D
Entries 100
Mean 0.05491
Std Dev 1.258

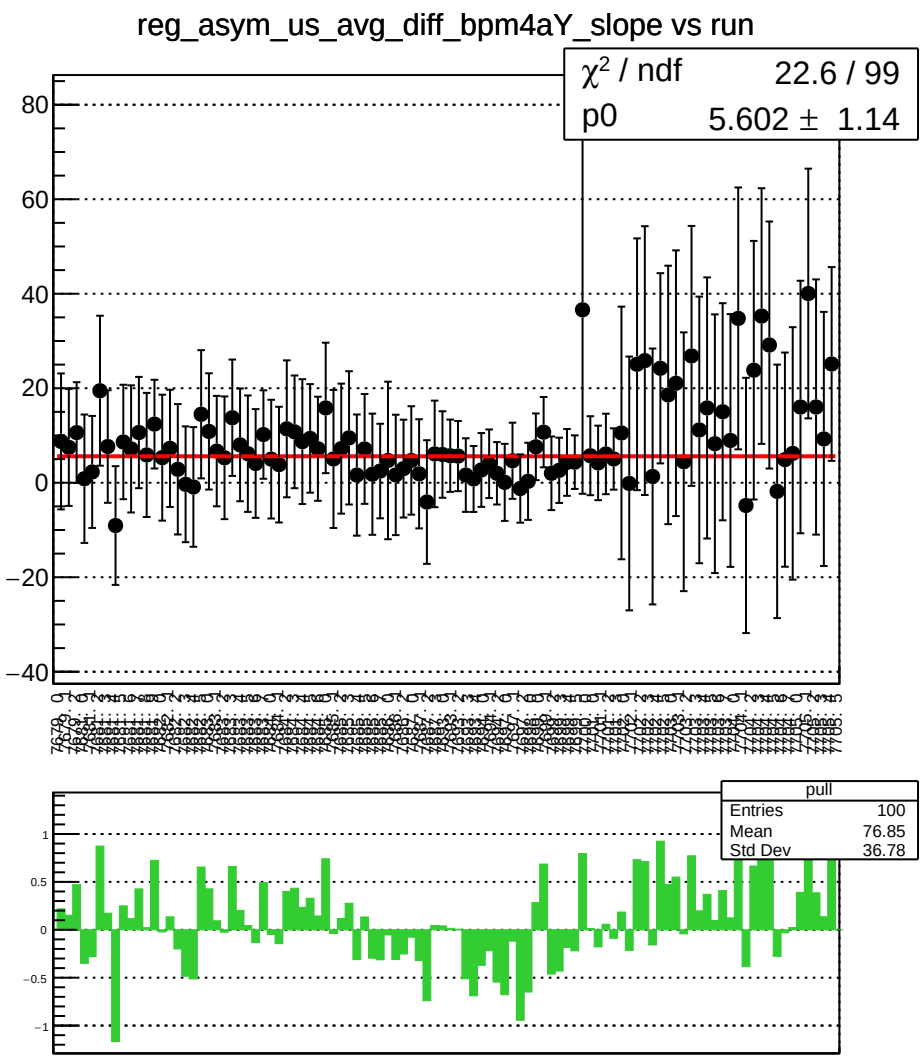

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 103.3 / 99
p0 0.001058 ± 0.2313
pull
Entries 100
Mean 123
Std Dev 0
pull1D
Entries 100
Mean 0.02917
Std Dev 1.016

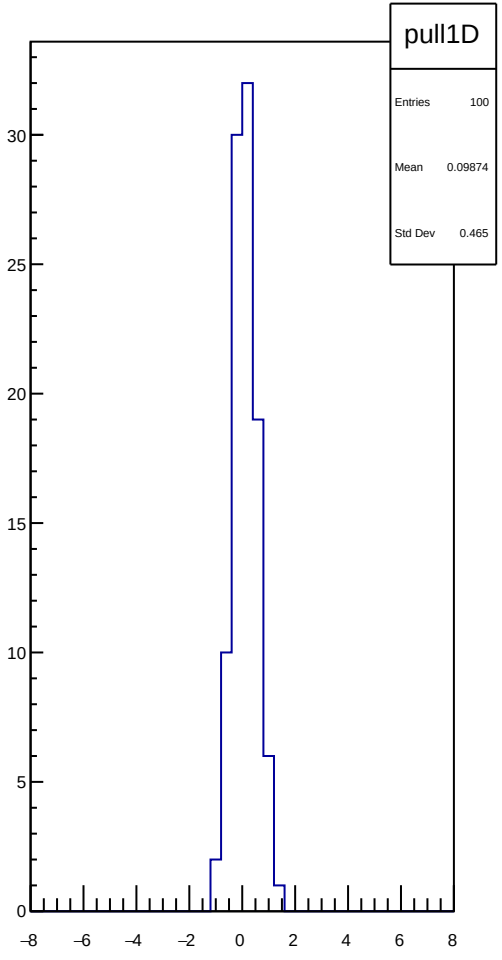

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 152.2 / 99
p0 −0.5118 ± 0.1309
pull
Entries 100
Mean 40.27
Std Dev 64.49
pull1D
Entries 100
Mean −0.06336
Std Dev 1.232

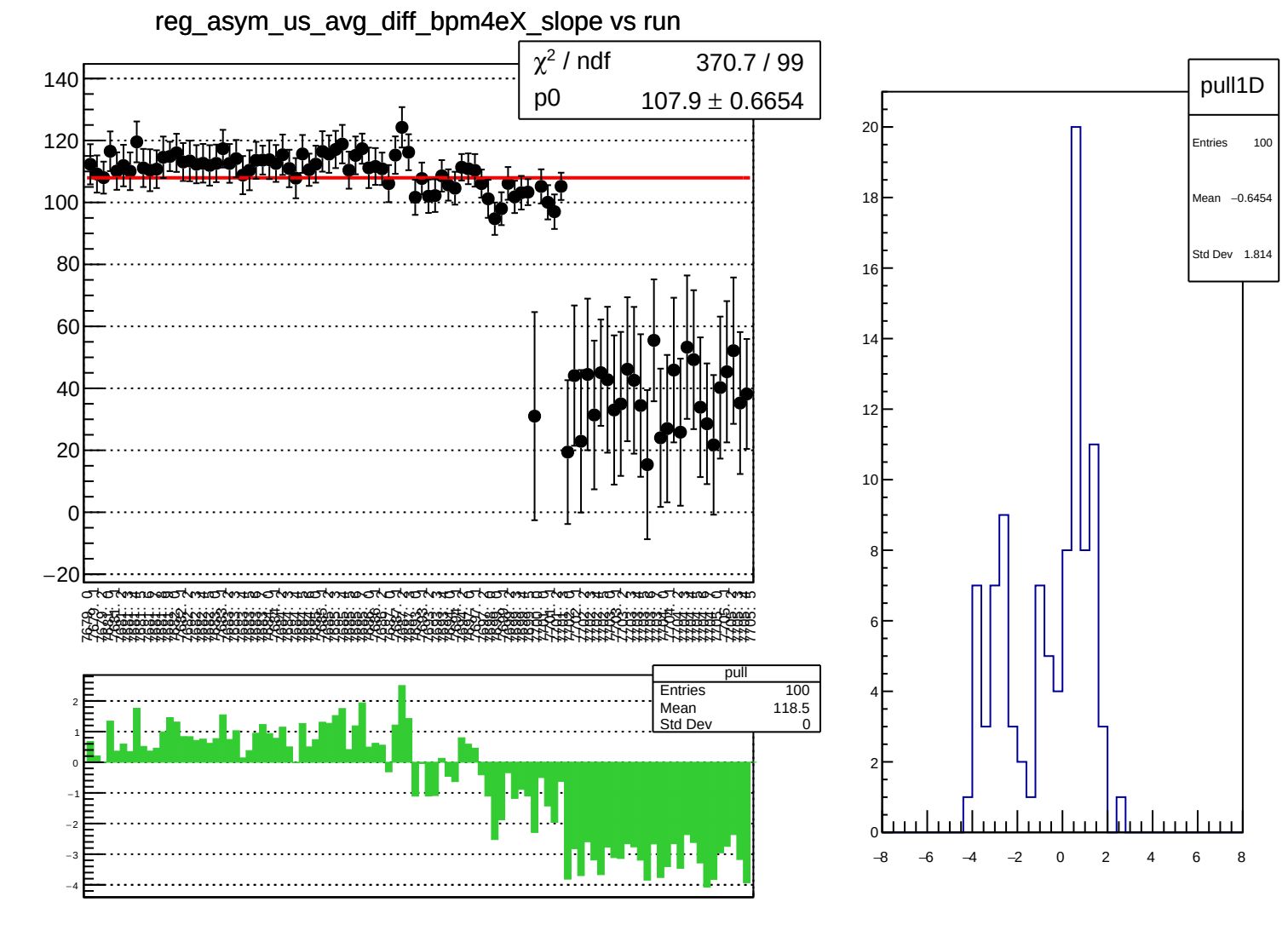

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 104.7 / 99
p0 −0.1217 ± 0.3456
pull
Entries 100
Mean 149.2
Std Dev 0
pull1D
Entries 100
Mean −0.01558
Std Dev 1.023

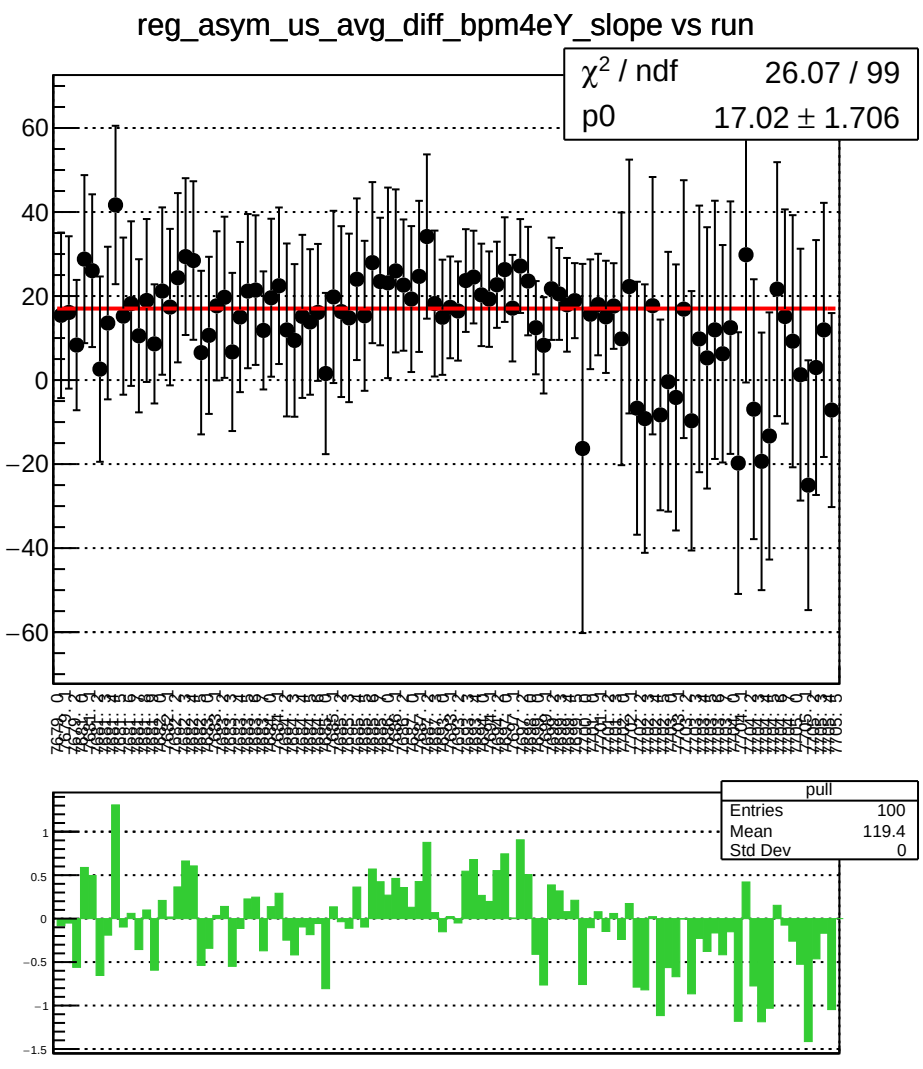

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 151.7 / 99
p0 0.04866 ± 0.01779
pull
Entries 100
Mean 400.6
Std Dev 0
pull1D
Entries 100
Mean −0.01315
Std Dev 1.232

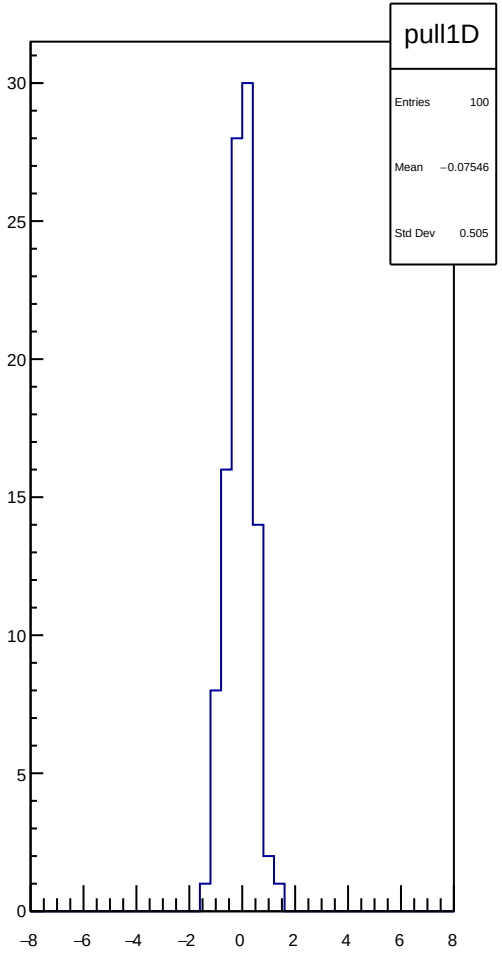

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 334.7 / 99
p0 −110.4 ± 0.8277
pull
Entries 100
Mean 119.7
Std Dev 0
pull1D
Entries 100
Mean 0.5972
Std Dev 1.729

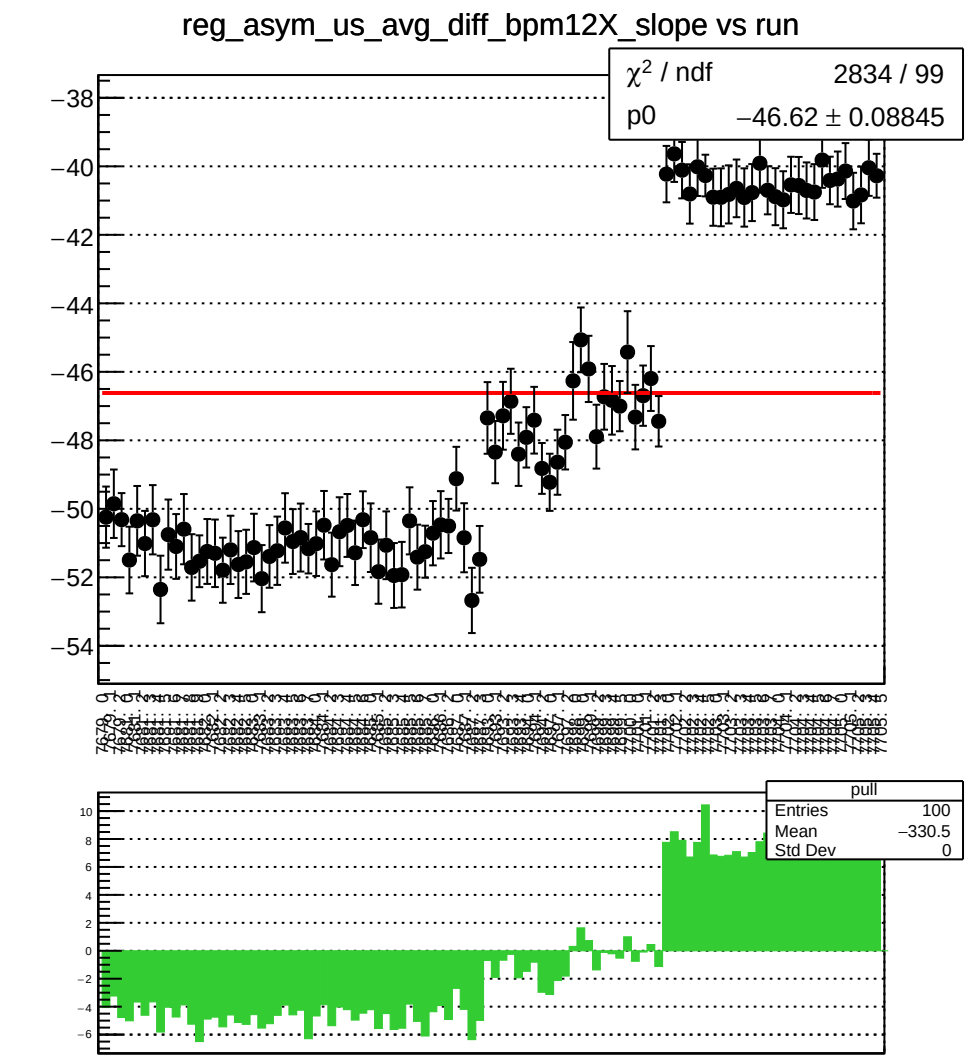

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 22.6 / 99
p0 5.602 ± 1.14
pull
Entries 100
Mean 76.85
Std Dev 36.78

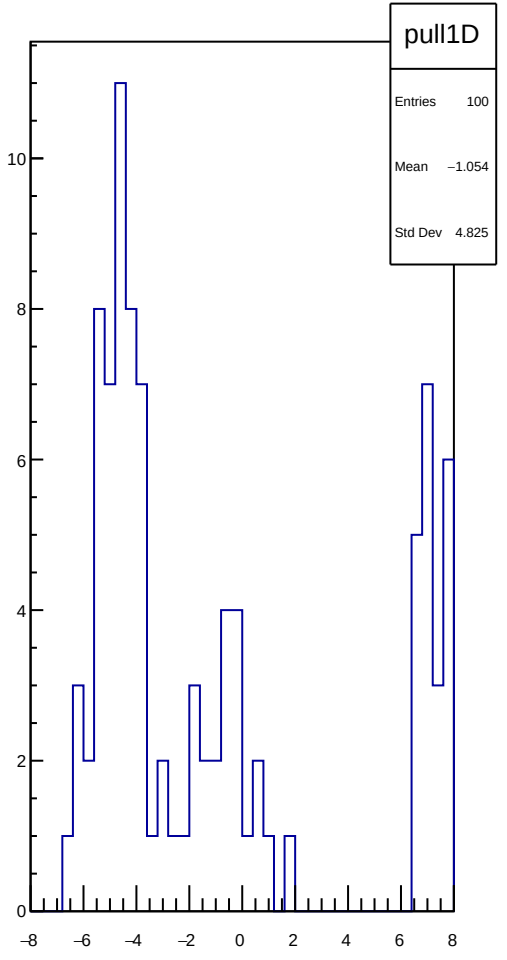

pull1D
Entries 100
Mean 0.09874
Std Dev 0.465

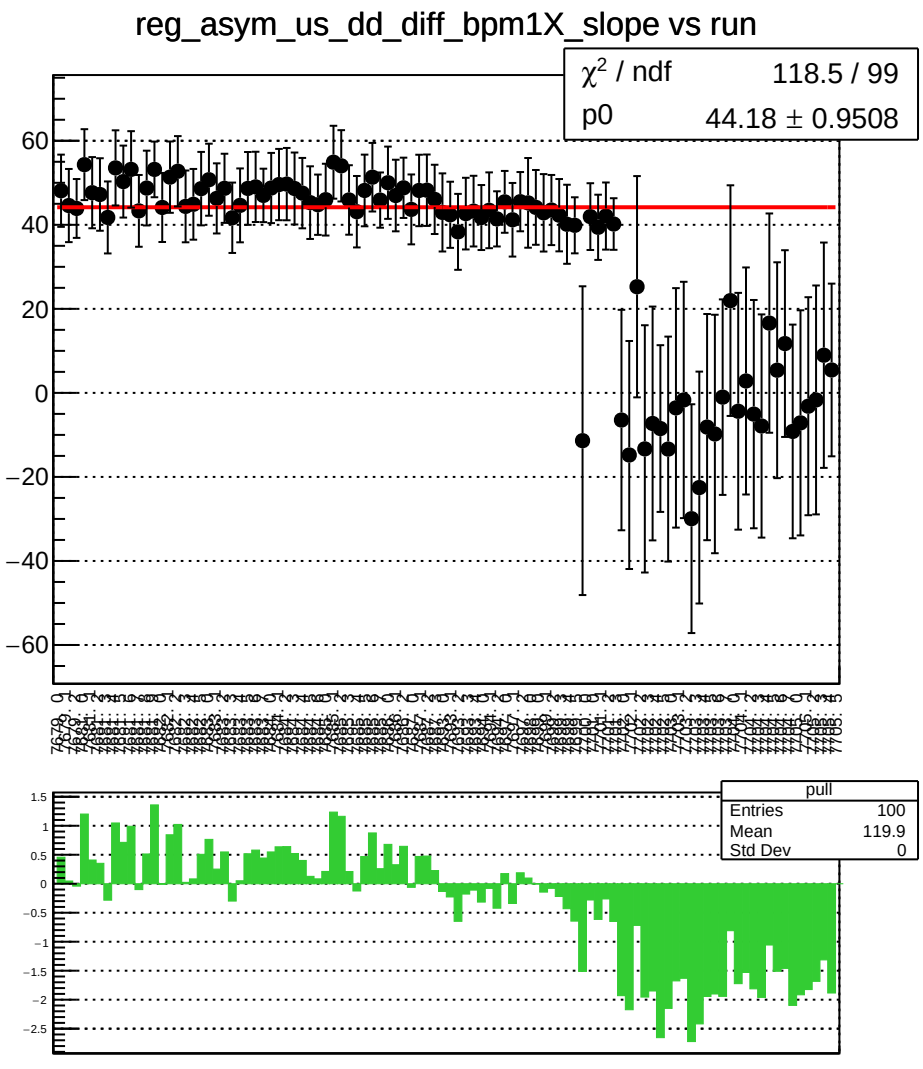

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 370.7 / 99
p0 107.9 ± 0.6654
pull
Entries 100
Mean 118.5
Std Dev 0
pull1D
Entries 100
Mean −0.6454
Std Dev 1.814

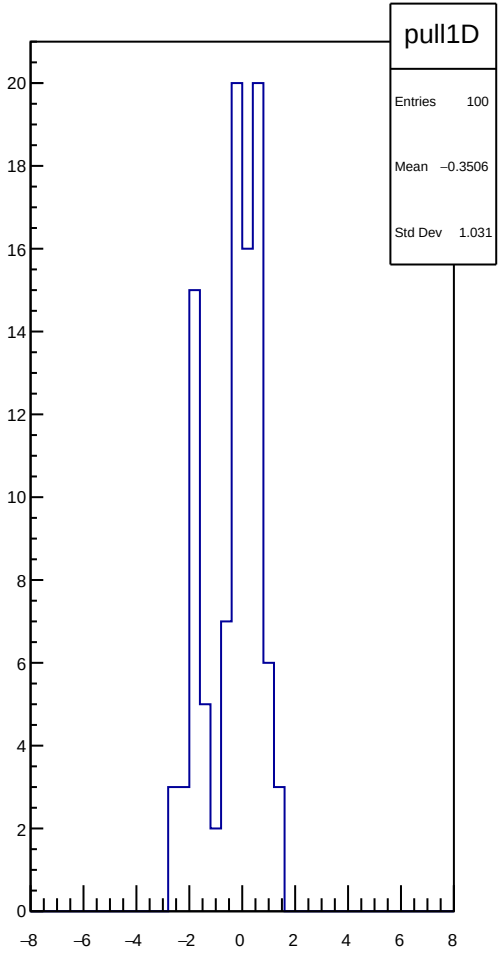

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 26.07 / 99
p0 17.02 ± 1.706
pull
Entries 100
Mean 119.4
Std Dev 0

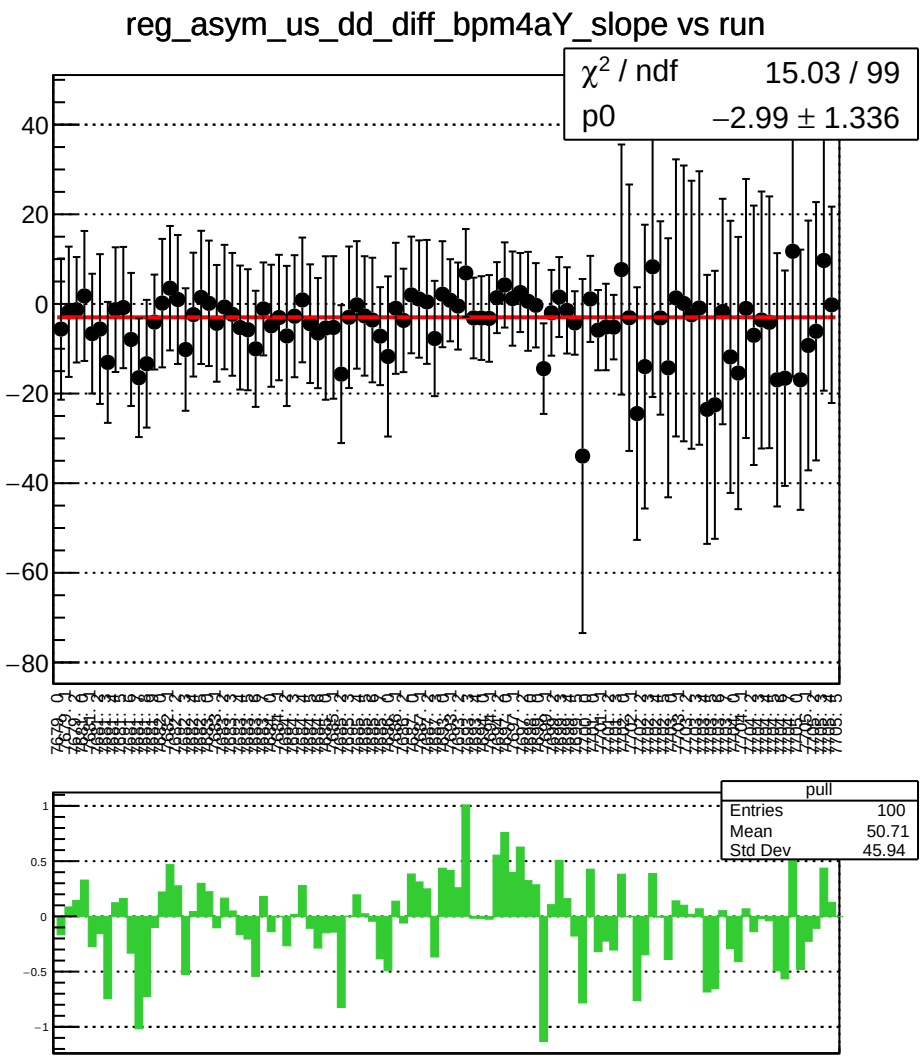

pull1D
Entries 100
Mean −0.07546
Std Dev 0.505

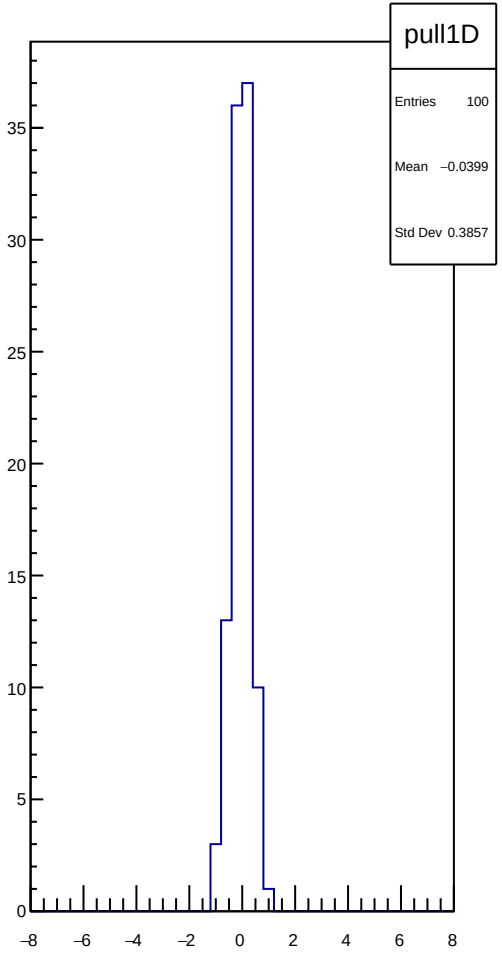

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 2834 / 99
p0 −46.62 ± 0.08845
pull
Entries 100
Mean −330.5
Std Dev 0

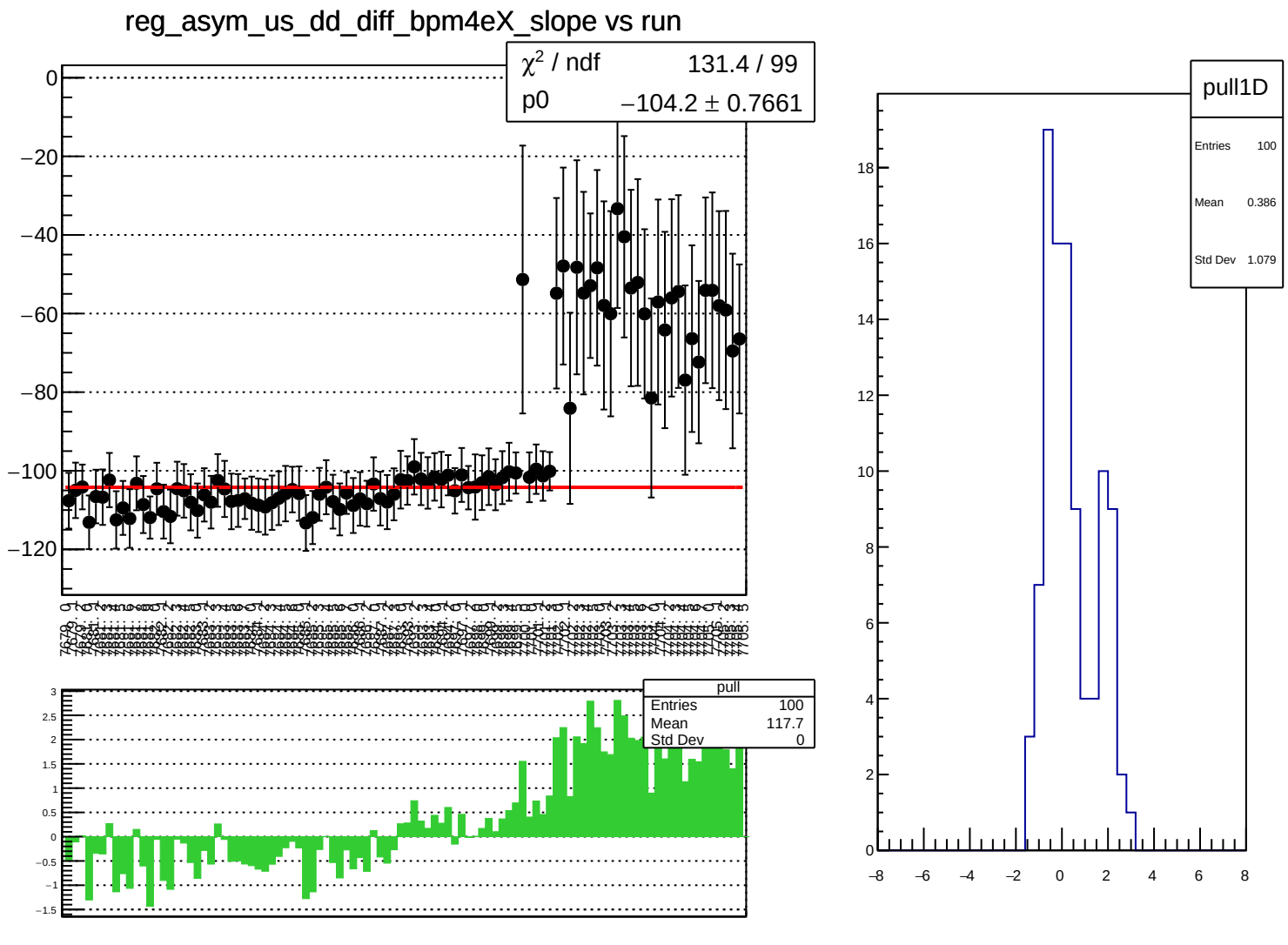

pull1D
Entries 100
Mean −1.054
Std Dev 4.825

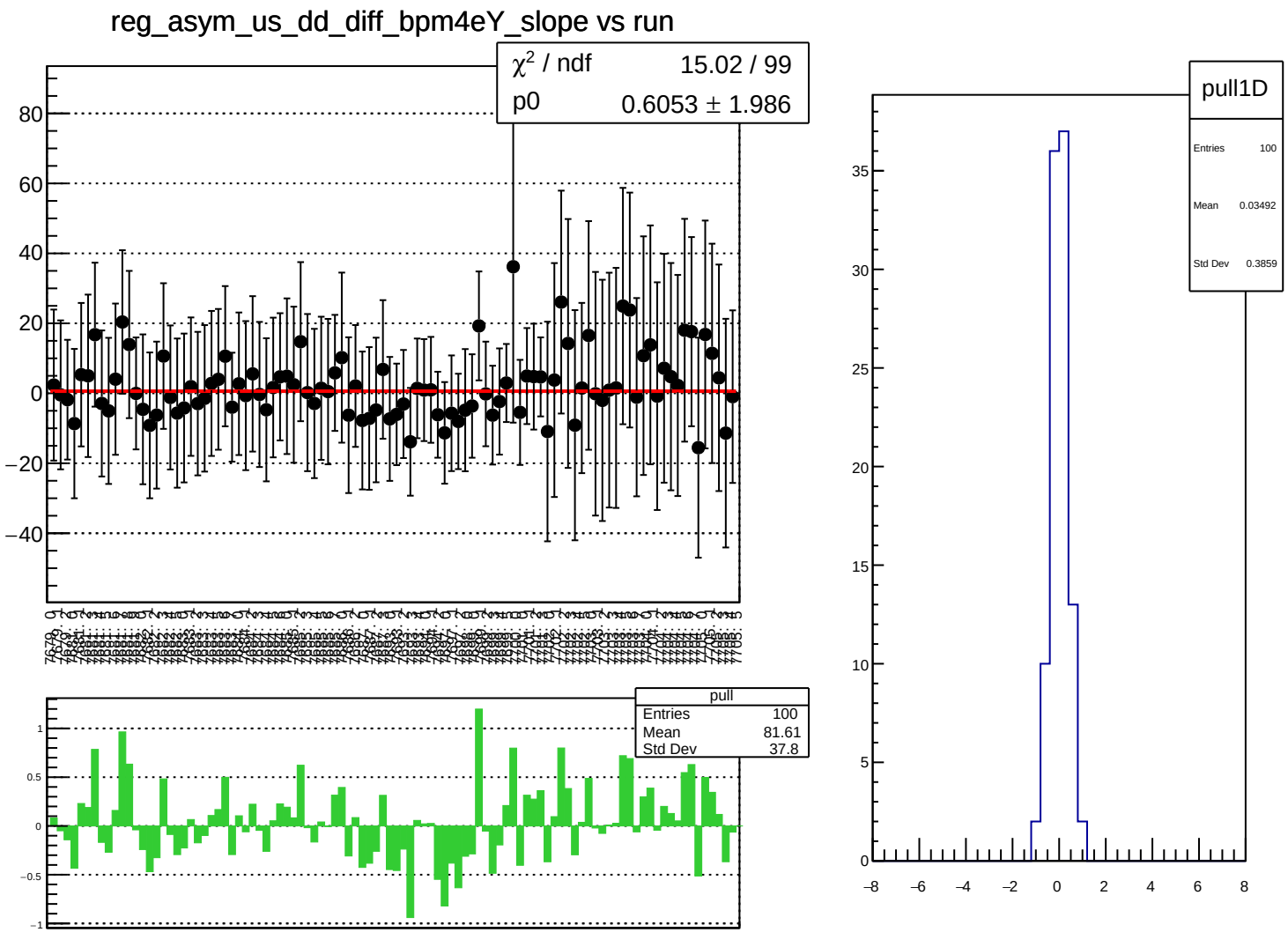

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 118.5 / 99
p0 44.18 ± 0.9508
pull
Entries 100
Mean 119.9
Std Dev 0

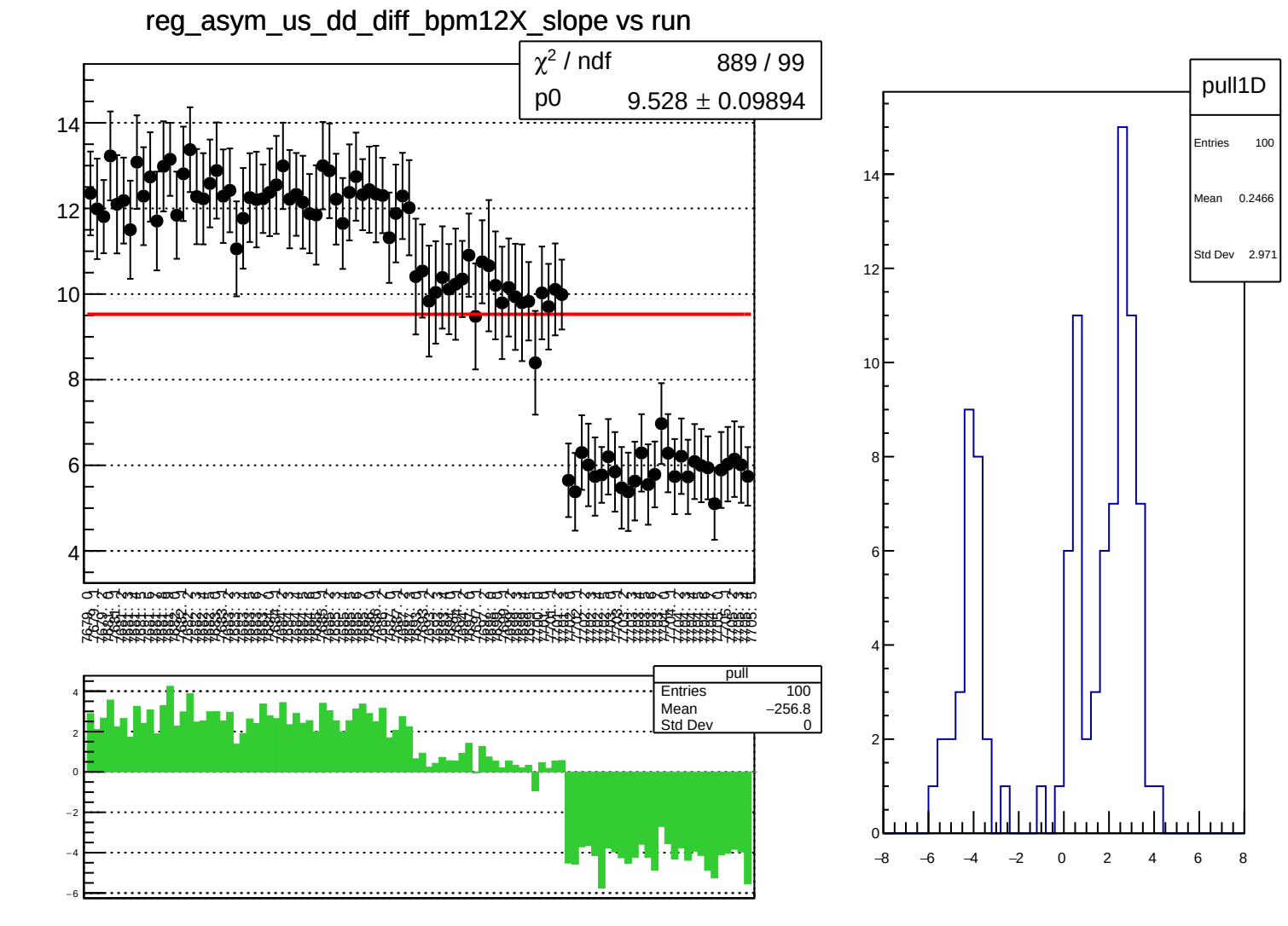

pull1D
Entries 100
Mean −0.3506
Std Dev 1.031

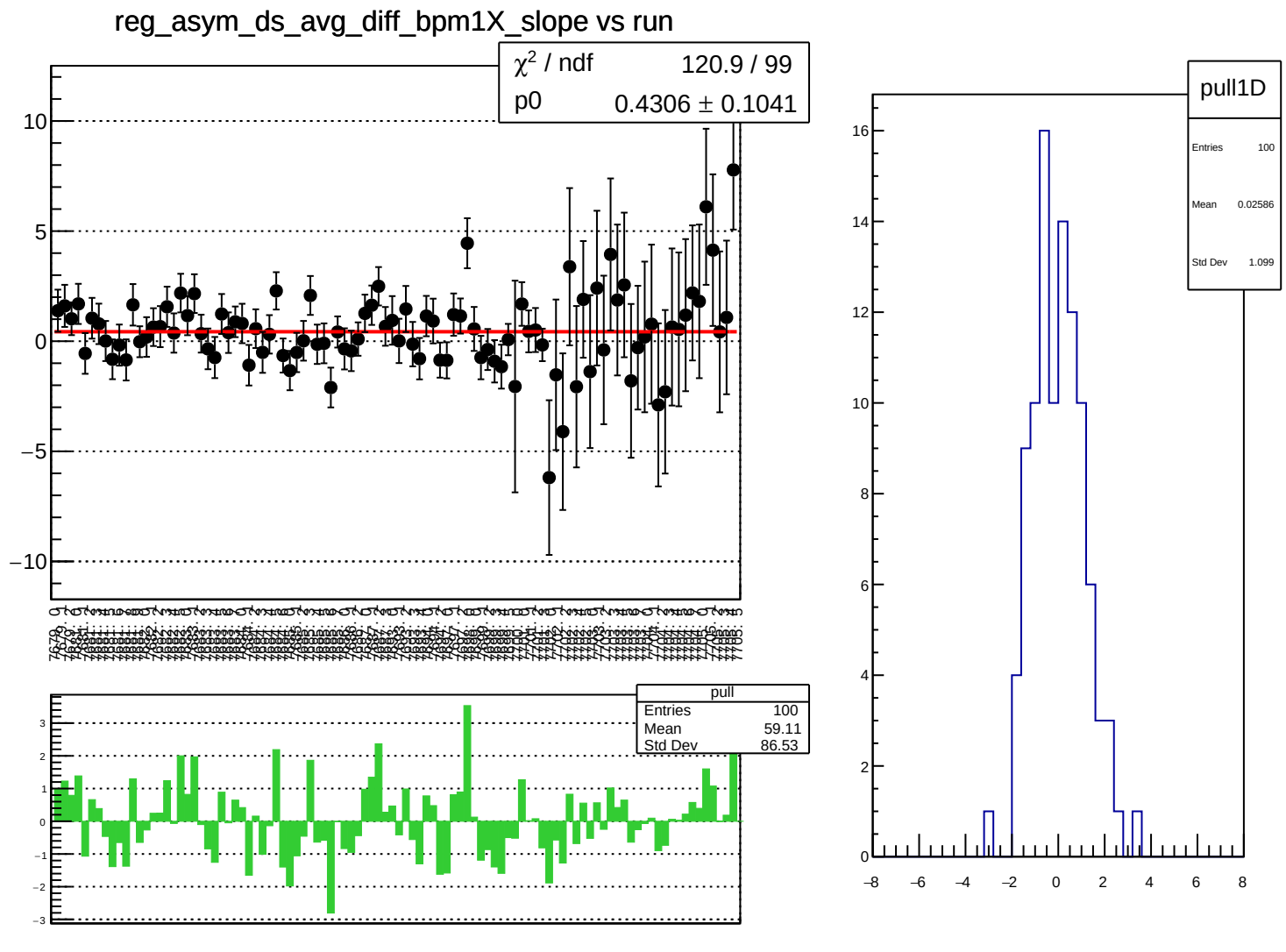

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.03 / 99
p0 −2.99 ± 1.336
pull
Entries 100
Mean 50.71
Std Dev 45.94

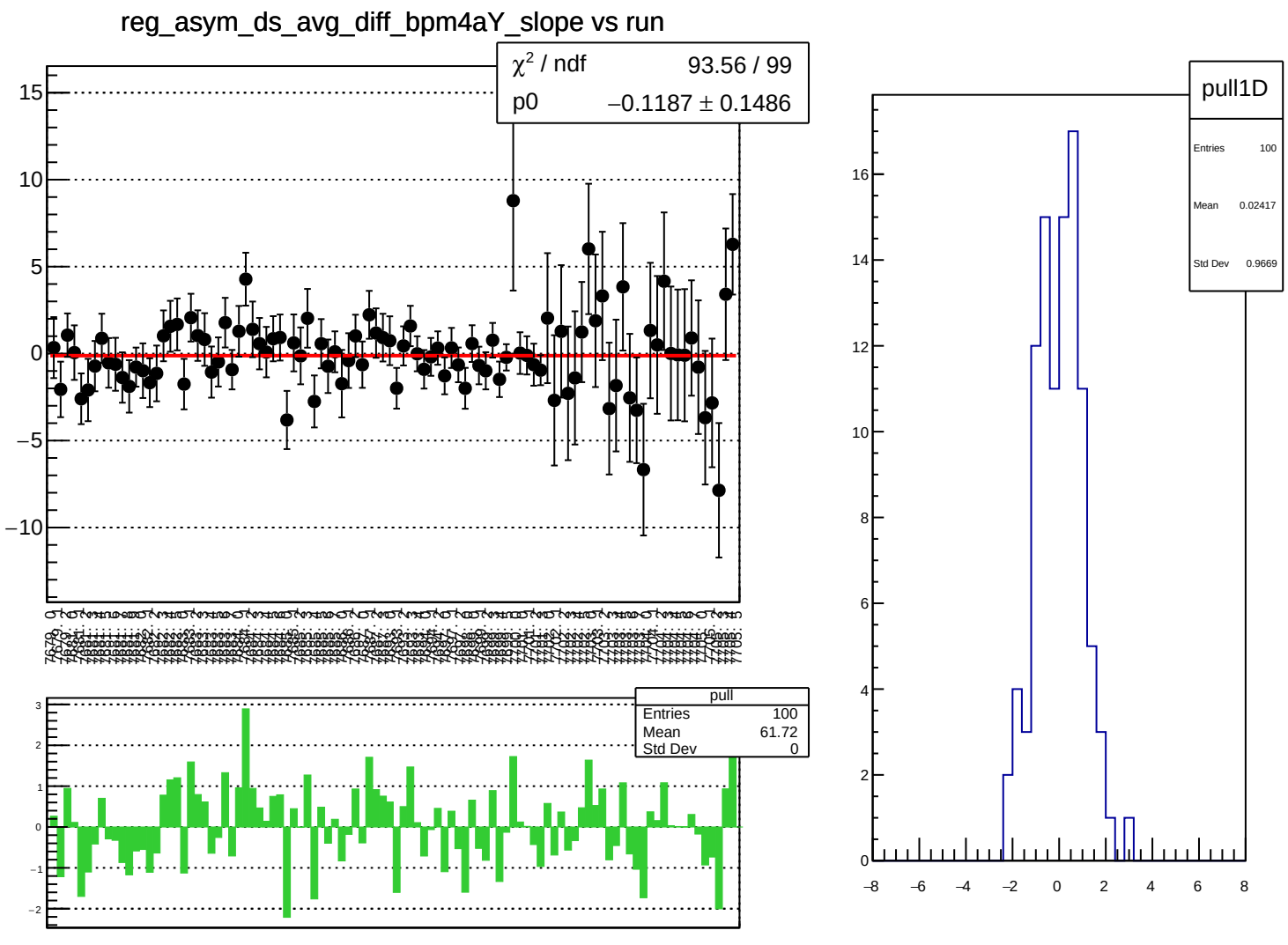

pull1D
Entries 100
Mean −0.0399
Std Dev 0.3857

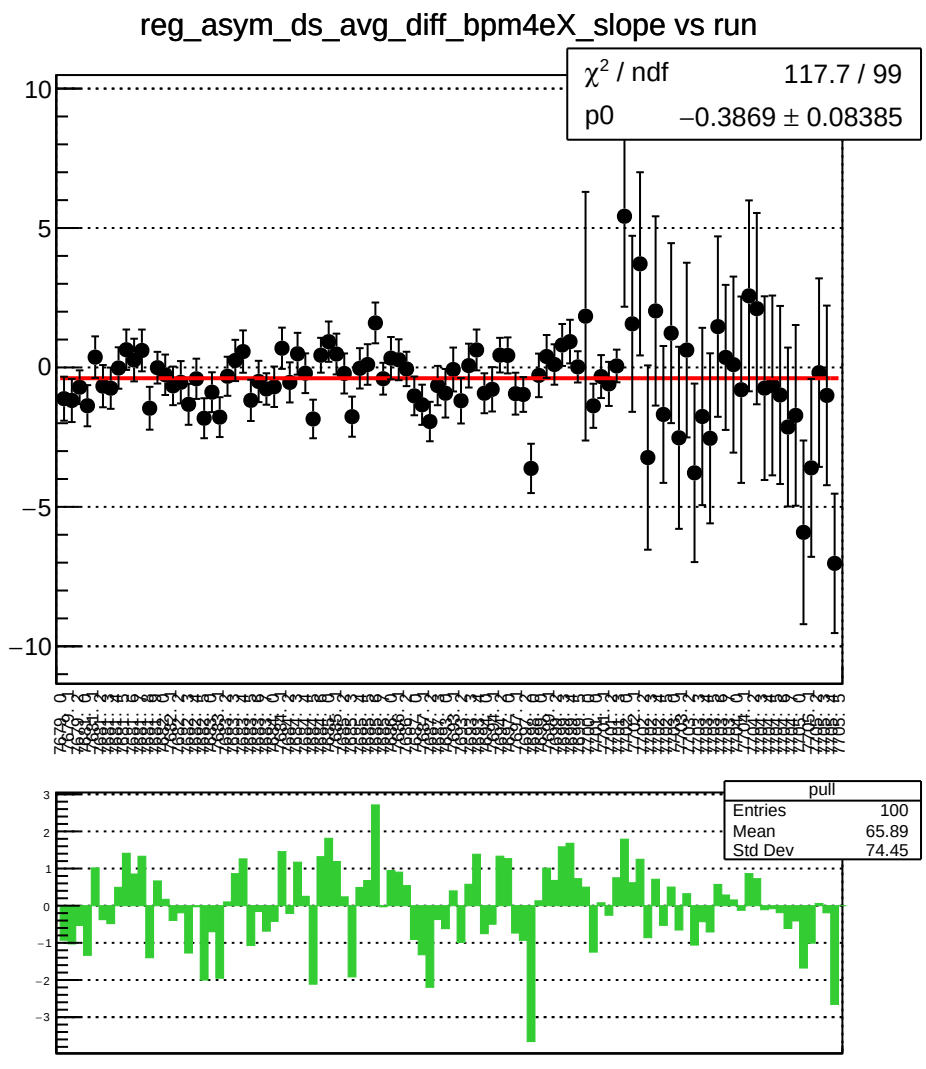

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 131.4 / 99
p0 −104.2 ± 0.7661
pull
Entries 100
Mean 117.7
Std Dev 0
pull1D
Entries 100
Mean 0.386
Std Dev 1.079

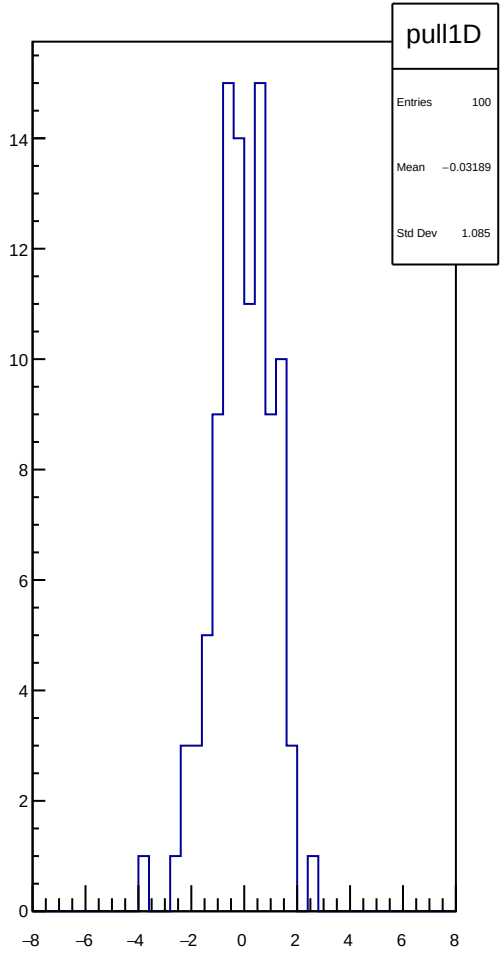

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.02 / 99
p0 0.6053 ± 1.986
pull
Entries 100
Mean 81.61
Std Dev 37.8
pull1D
Entries 100
Mean 0.03492
Std Dev 0.3859

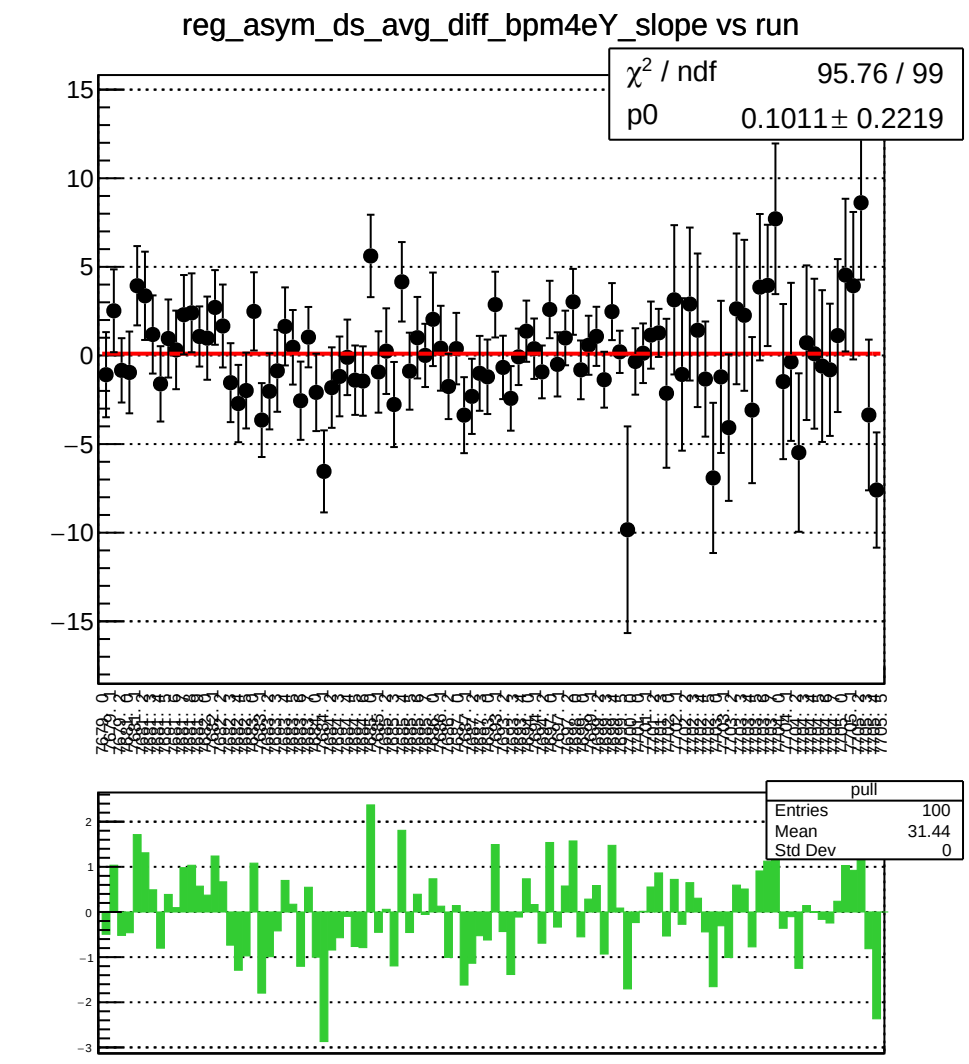

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 889 / 99
p0 9.528 ± 0.09894
pull
Entries 100
Mean −256.8
Std Dev 0
pull1D
Entries 100
Mean 0.2466
Std Dev 2.971

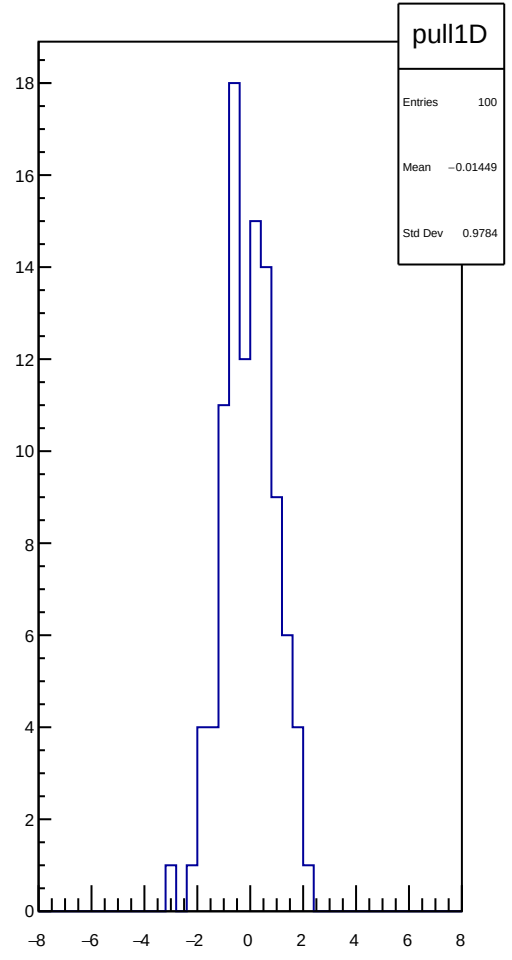

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 120.9 / 99
p0 0.4306 ± 0.1041
pull
Entries 100
Mean 59.11
Std Dev 86.53
pull1D
Entries 100
Mean 0.02586
Std Dev 1.099

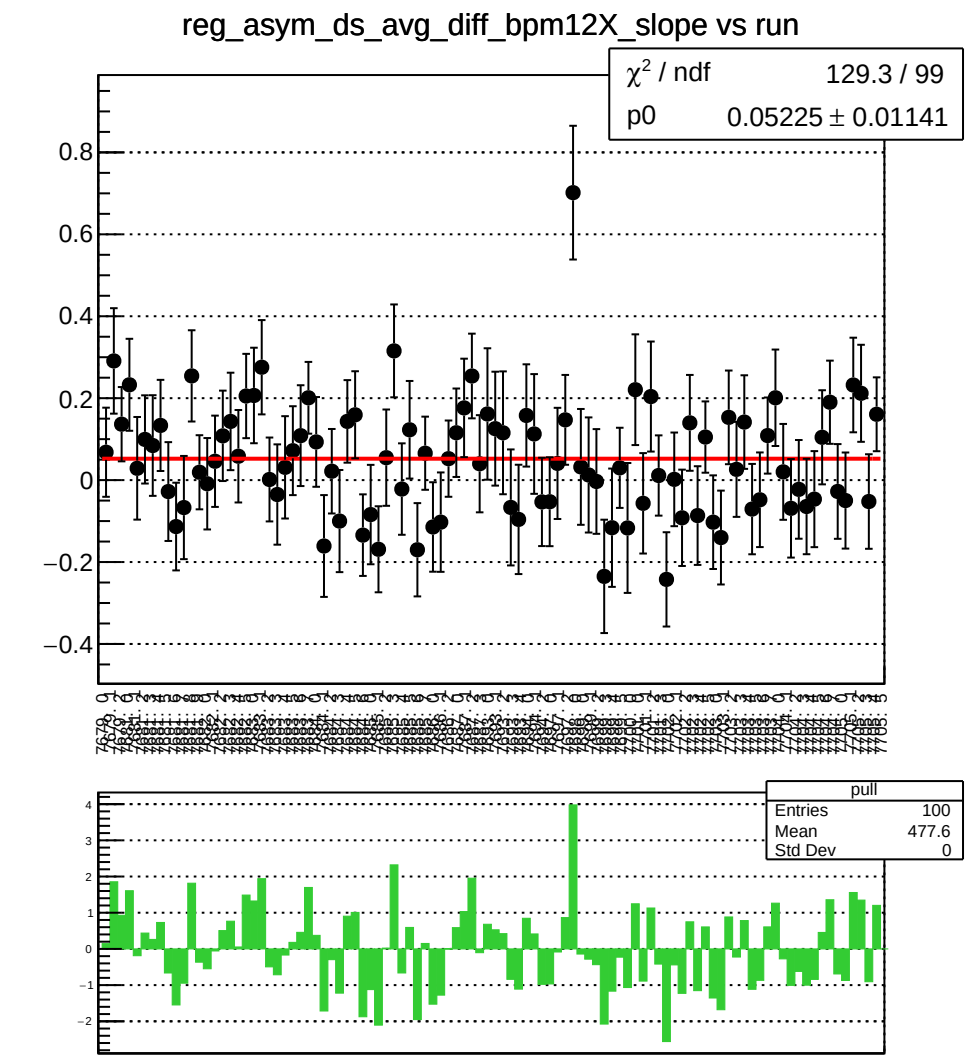

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 93.56 / 99
p0 −0.1187 ± 0.1486
pull
Entries 100
Mean 61.72
Std Dev 0
pull1D
Entries 100
Mean 0.02417
Std Dev 0.9669

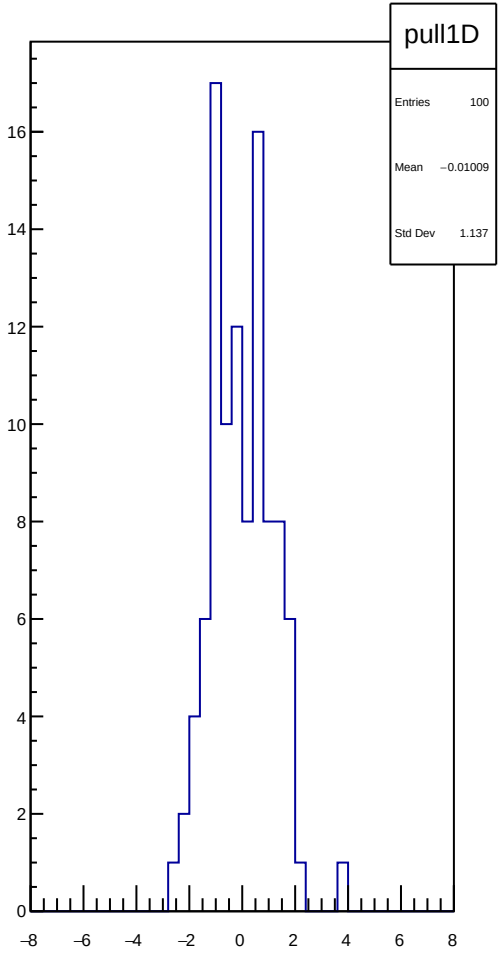

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 117.7 / 99
p0 −0.3869 ± 0.08385
pull
Entries 100
Mean 65.89
Std Dev 74.45

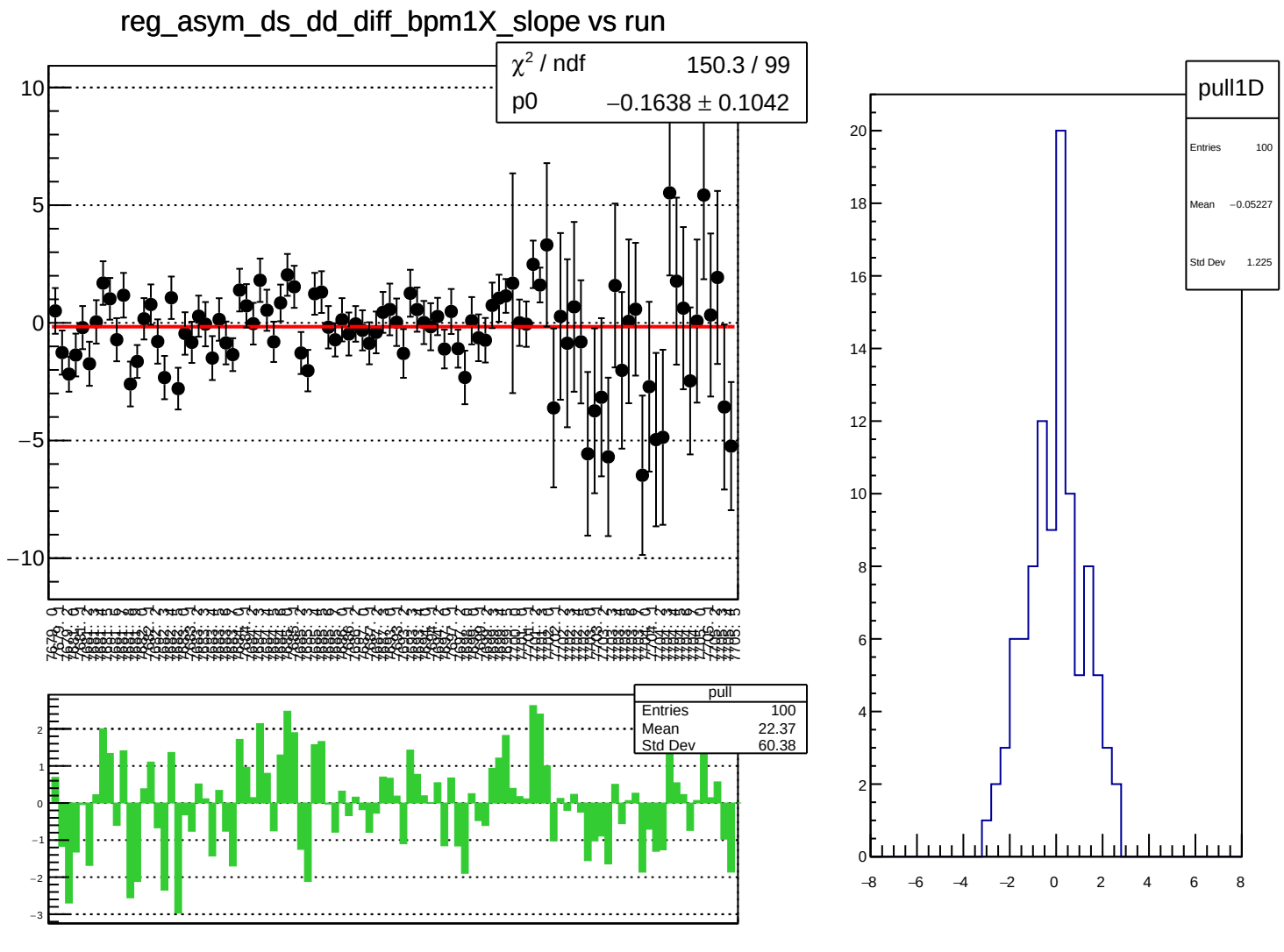

pull1D
Entries 100
Mean −0.03189
Std Dev 1.085

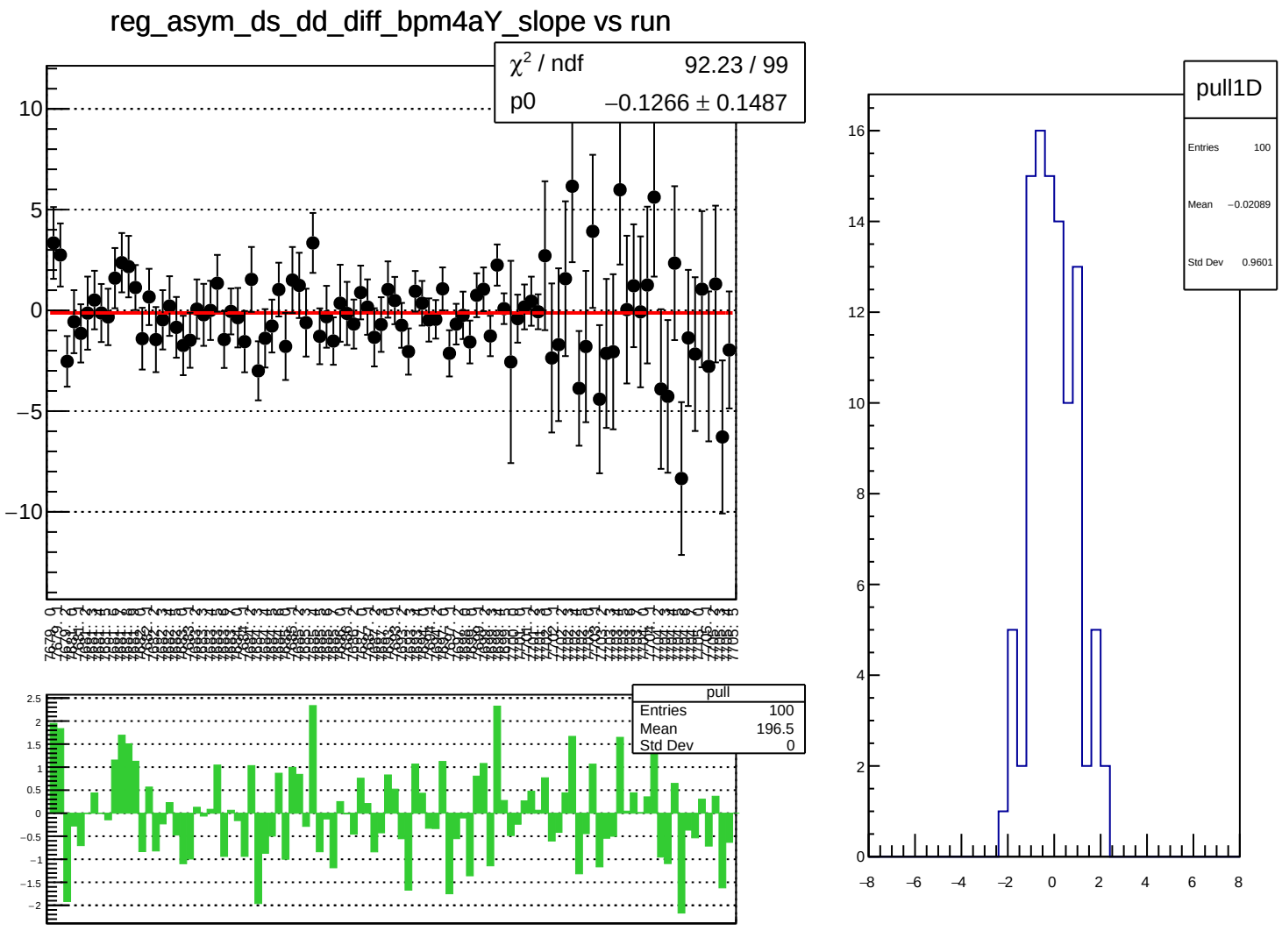

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 95.76 / 99
p0 0.1011 ± 0.2219
pull
Entries 100
Mean 31.44
Std Dev 0

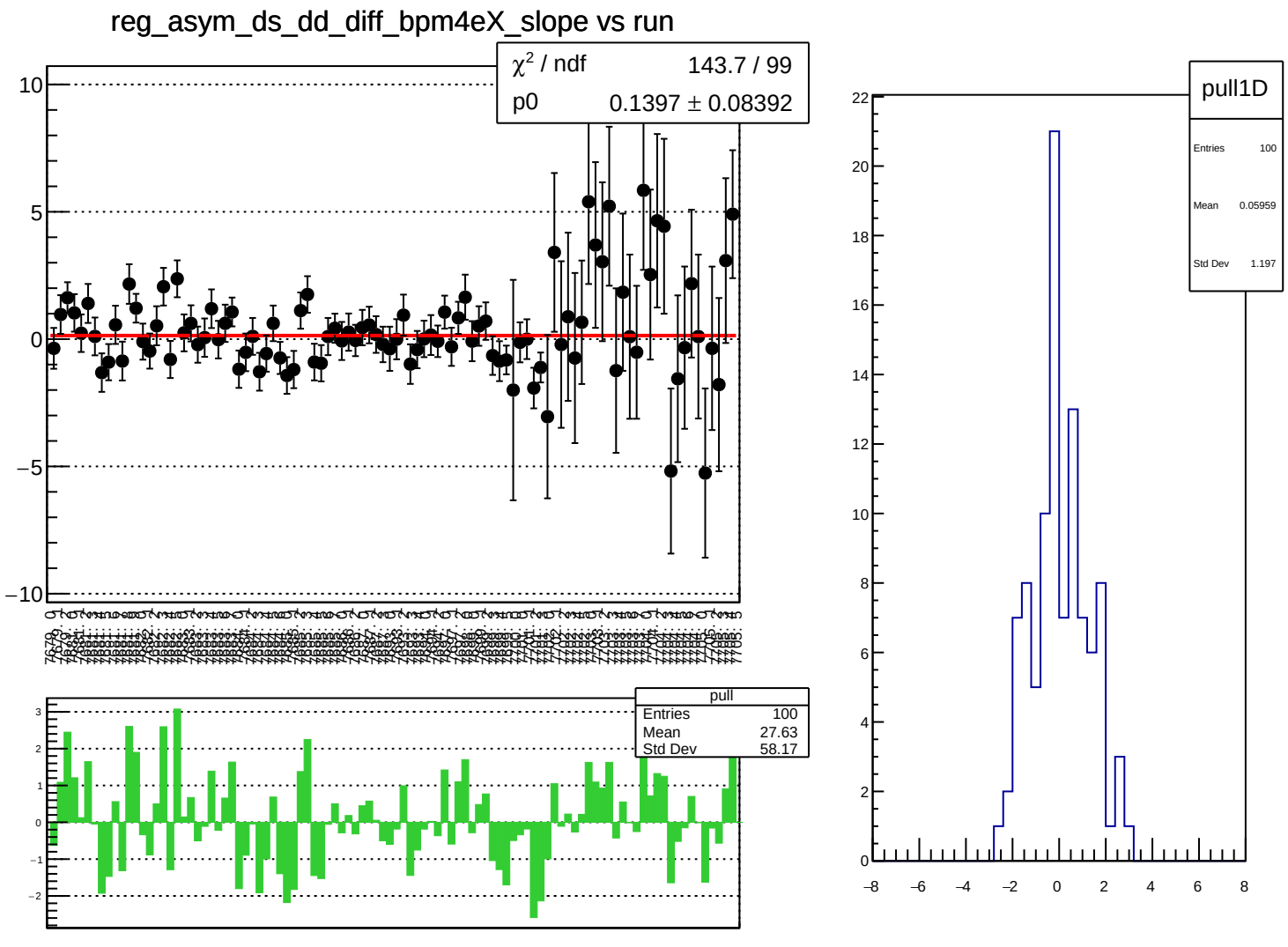

pull1D
Entries 100
Mean −0.01449
Std Dev 0.9784

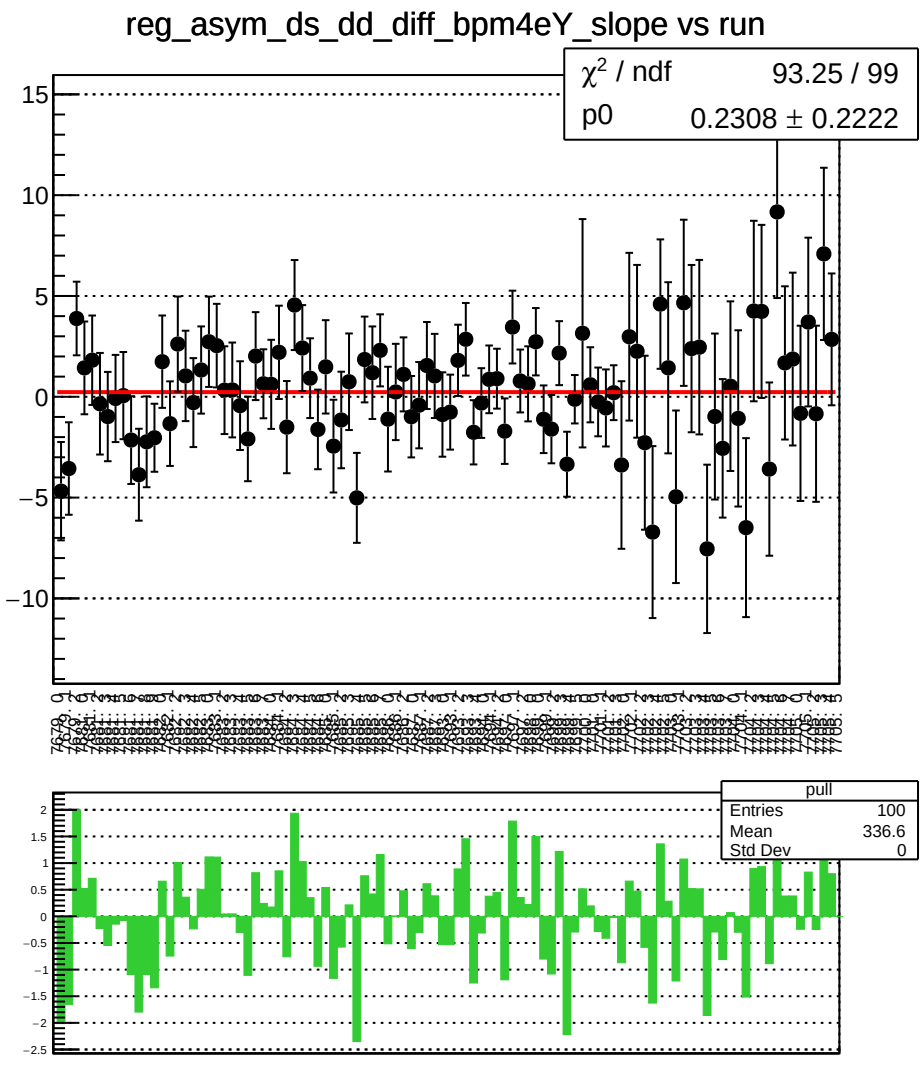

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 129.3 / 99
p0 0.05225 ± 0.01141
pull
Entries 100
Mean 477.6
Std Dev 0

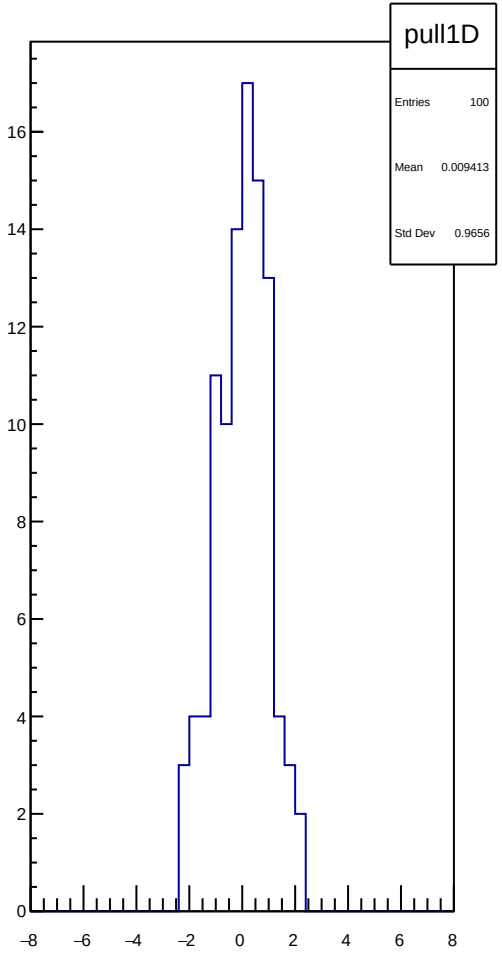

pull1D
Entries 100
Mean −0.01009
Std Dev 1.137

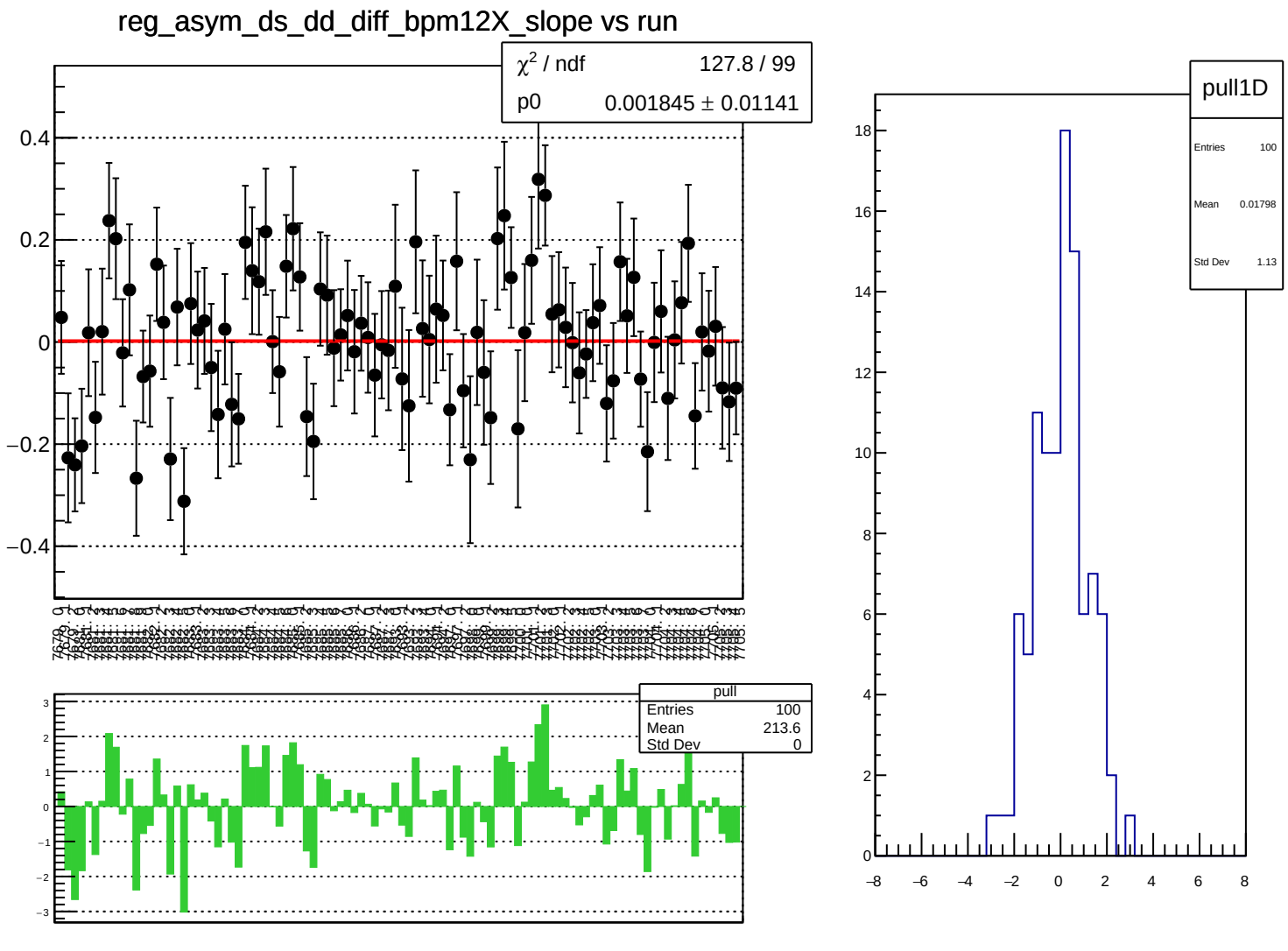

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 150.3 / 99
p0 −0.1638 ± 0.1042
pull
Entries 100
Mean 22.37
Std Dev 60.38
pull1D
Entries 100
Mean −0.05227
Std Dev 1.225

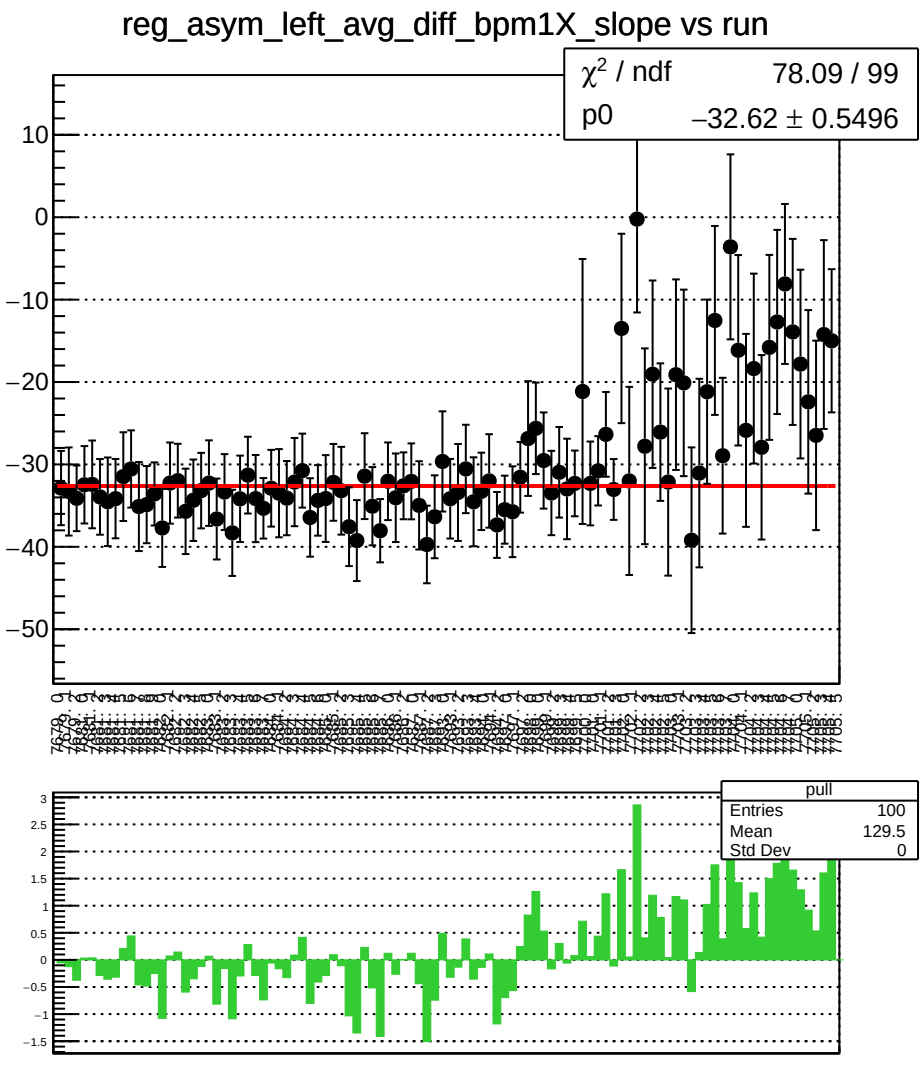

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 92.23 / 99
p0 −0.1266 ± 0.1487
pull
Entries 100
Mean 196.5
Std Dev 0
pull1D
Entries 100
Mean −0.02089
Std Dev 0.9601

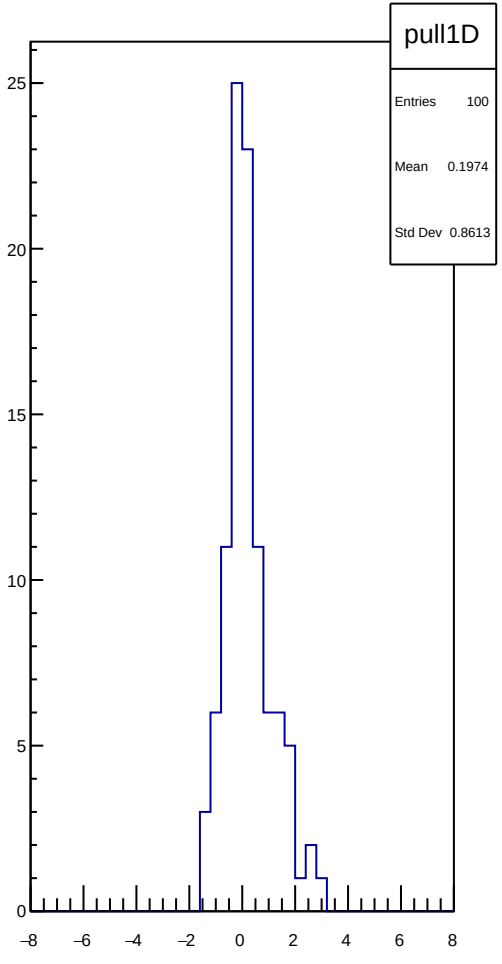

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 143.7 / 99
p0 0.1397 ± 0.08392
pull
Entries 100
Mean 27.63
Std Dev 58.17
pull1D
Entries 100
Mean 0.05959
Std Dev 1.197

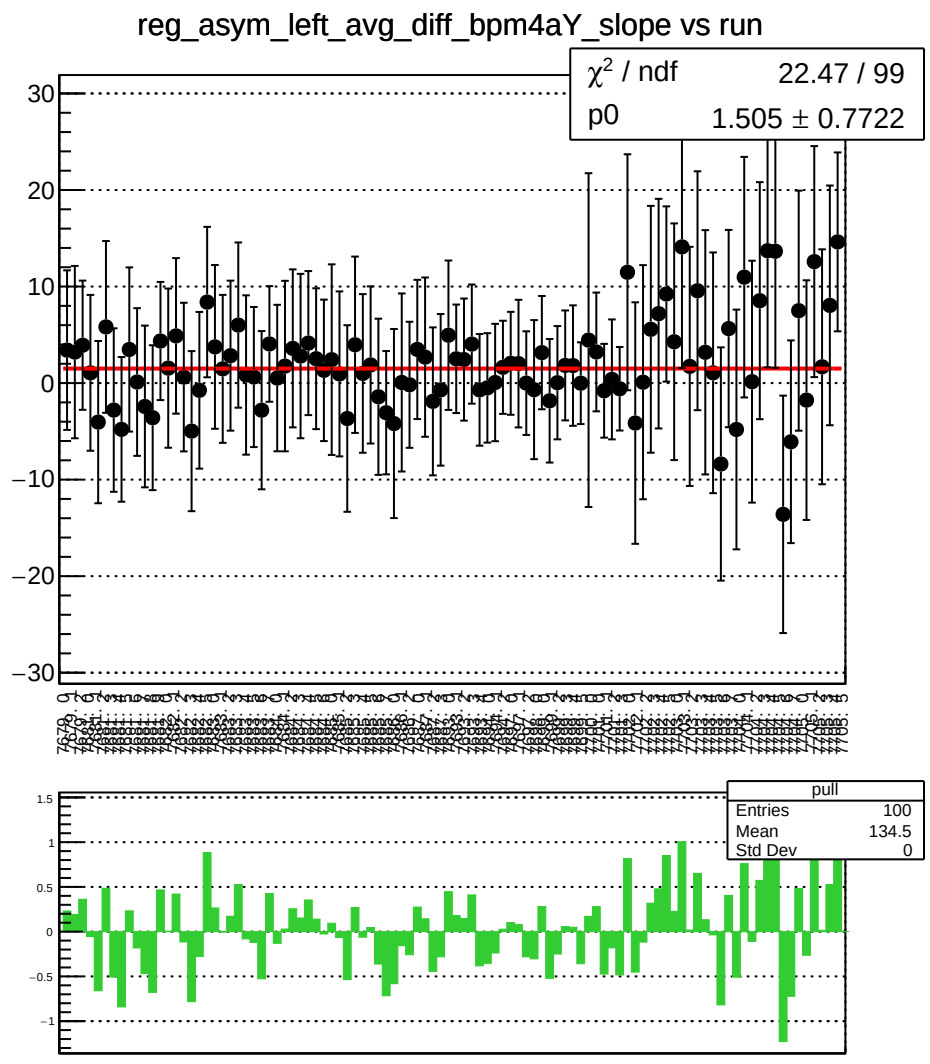

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 93.25 / 99
p0 0.2308 ± 0.2222
pull
Entries 100
Mean 336.6
Std Dev 0

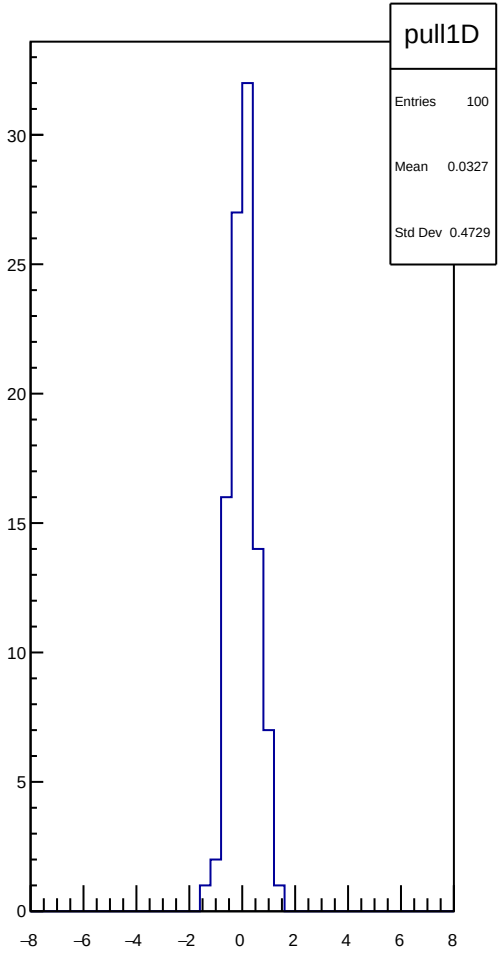

pull1D
Entries 100
Mean 0.009413
Std Dev 0.9656

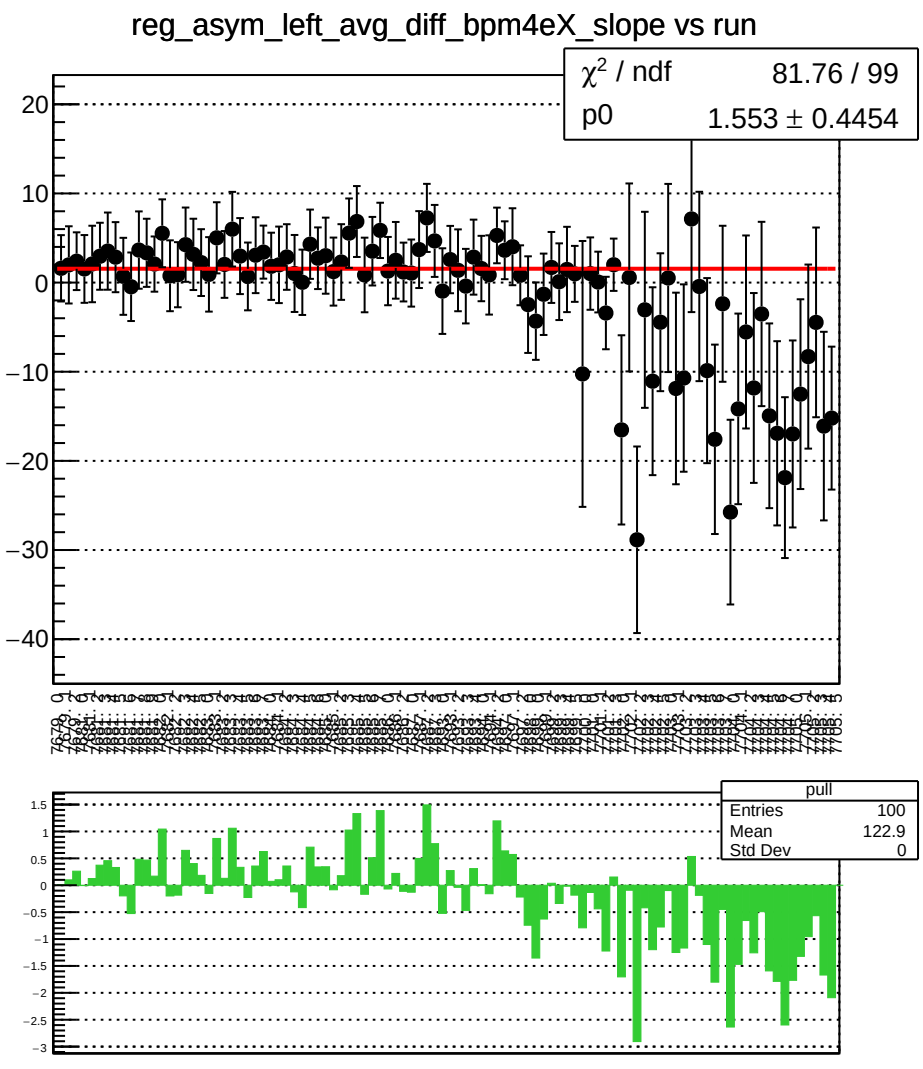

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 127.8 / 99
p0 0.001845 ± 0.01141
pull
Entries 100
Mean 213.6
Std Dev 0
pull1D
Entries 100
Mean 0.01798
Std Dev 1.13

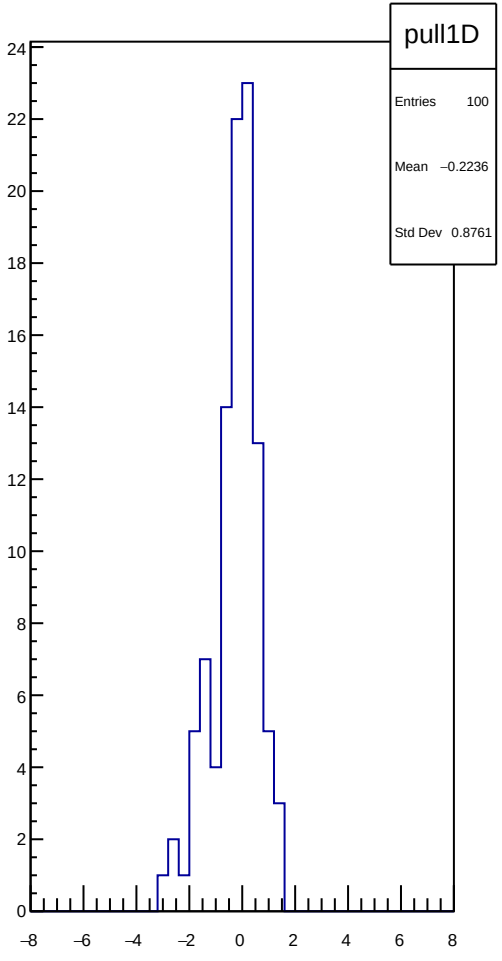

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 78.09 / 99
p0 −32.62 ± 0.5496
pull
Entries 100
Mean 129.5
Std Dev 0

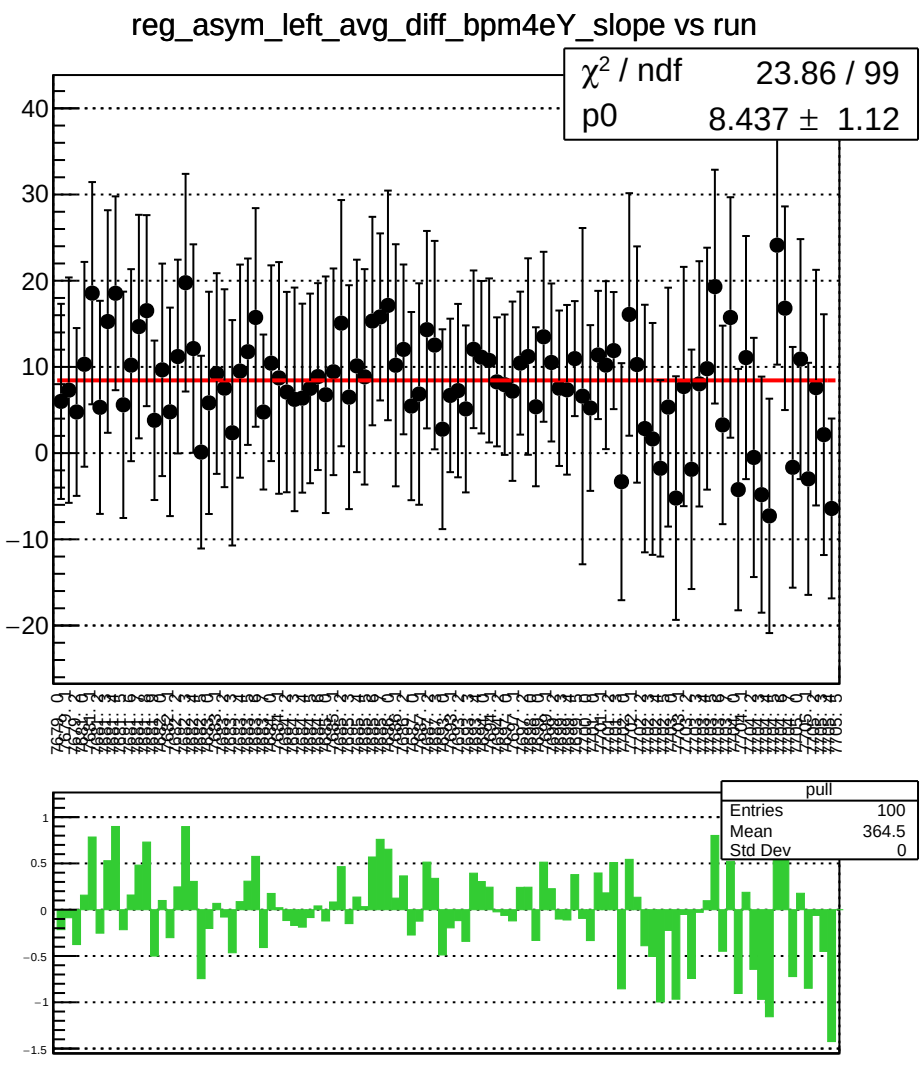

pull1D
Entries 100
Mean 0.1974
Std Dev 0.8613

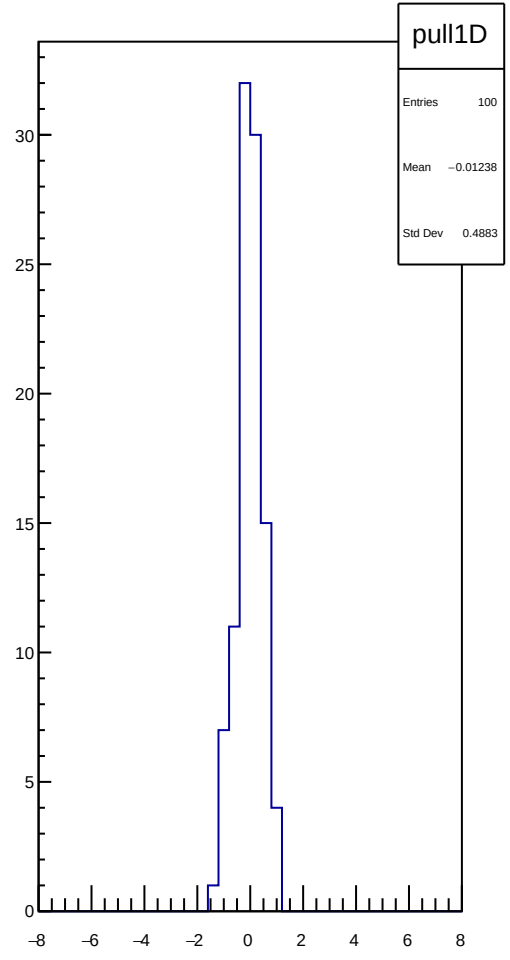

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 22.47 / 99
p0 1.505 ± 0.7722
pull
Entries 100
Mean 134.5
Std Dev 0

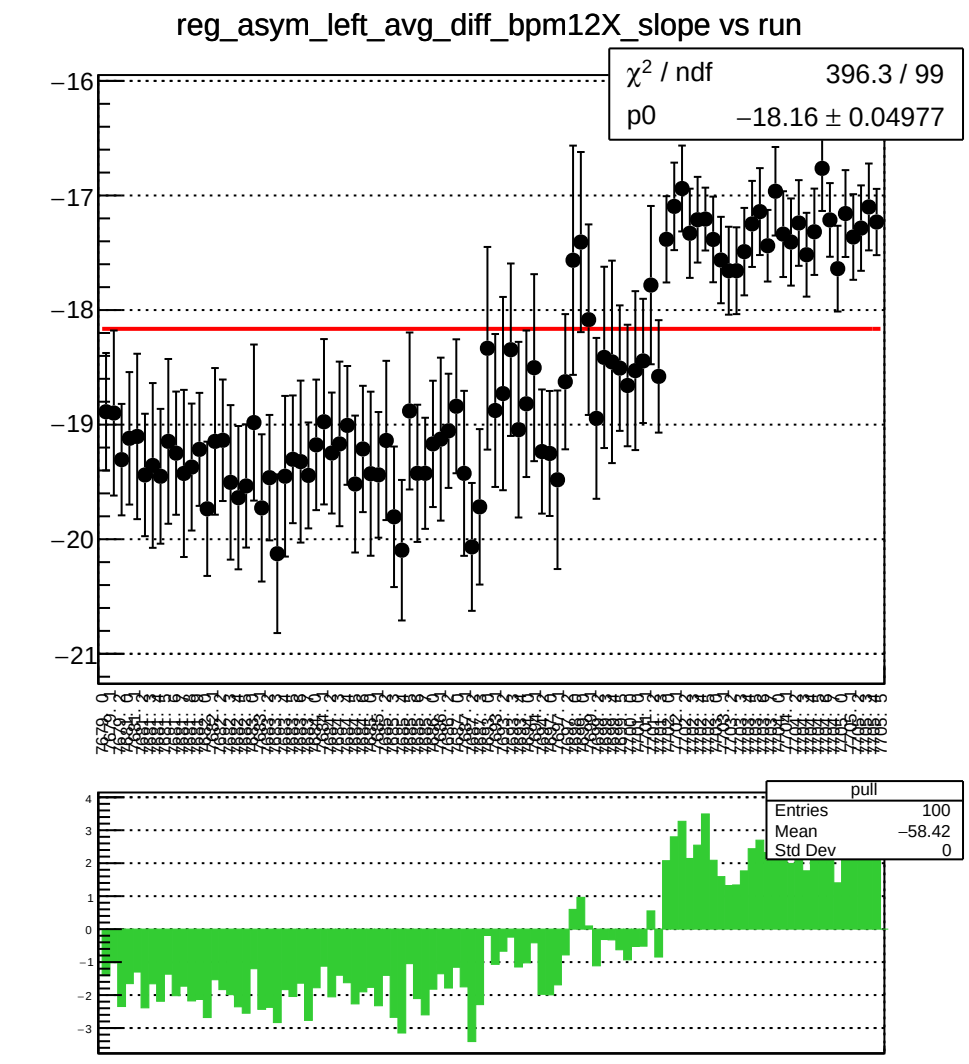

pull1D
Entries 100
Mean 0.0327
Std Dev 0.4729

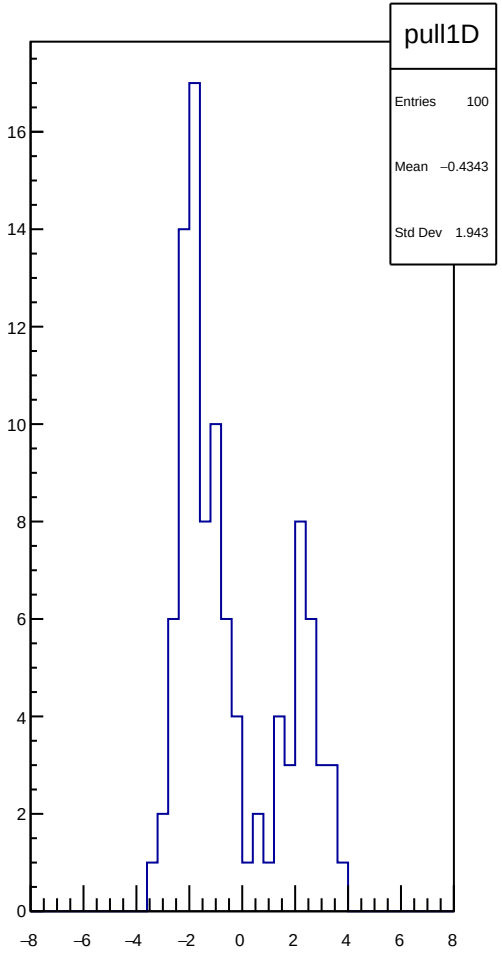

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 81.76 / 99
p0 1.553 ± 0.4454
pull
Entries 100
Mean 122.9
Std Dev 0

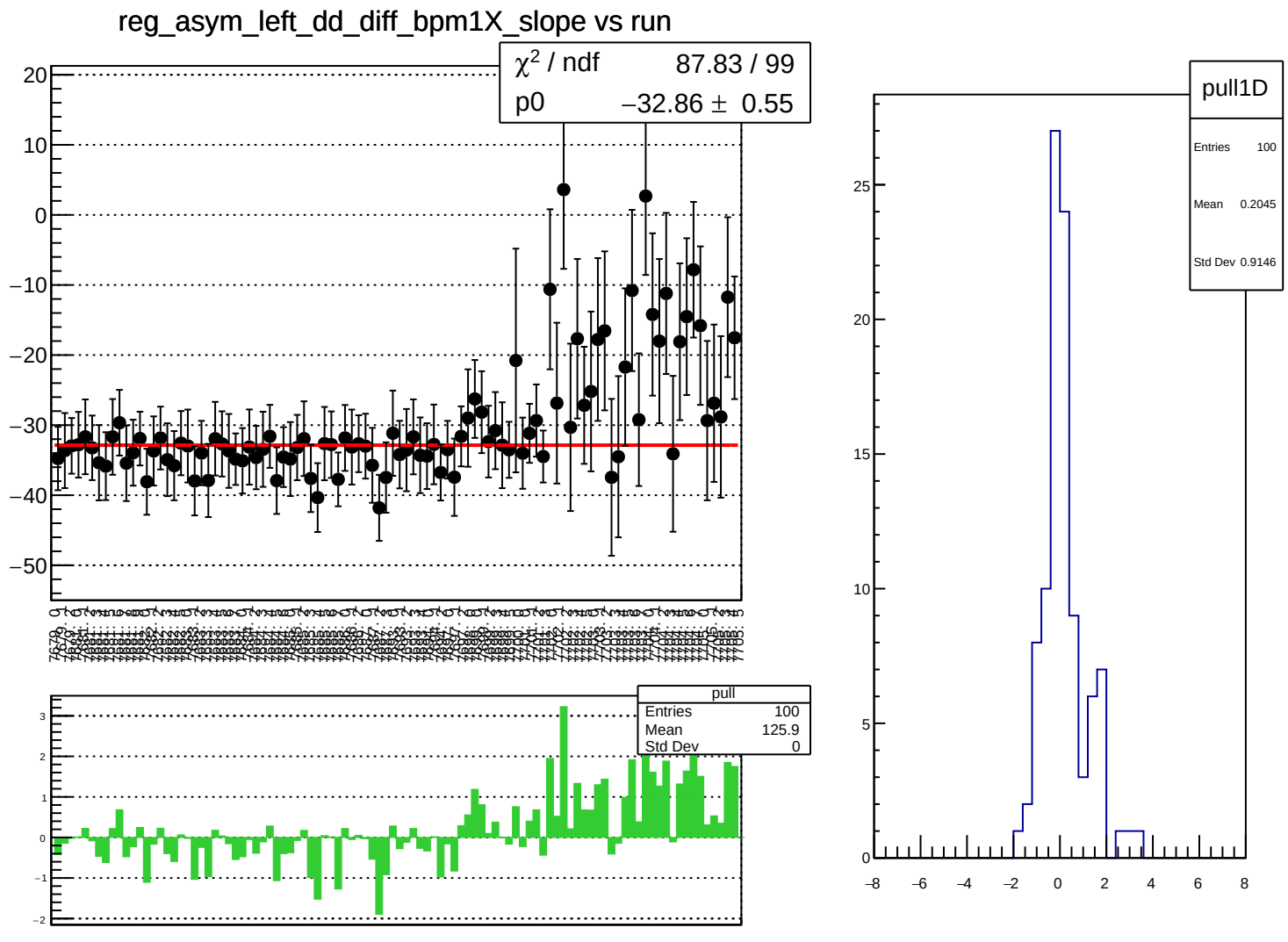

pull1D
Entries 100
Mean −0.2236
Std Dev 0.8761

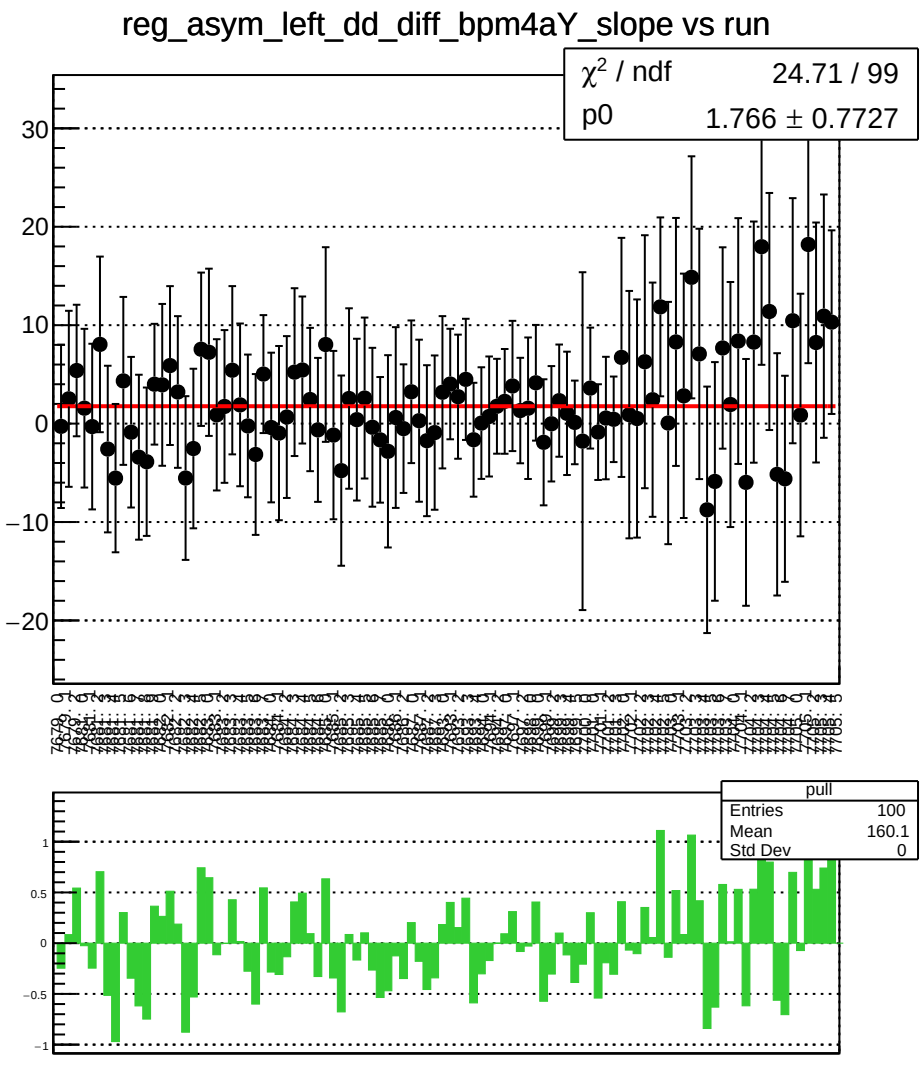

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 23.86 / 99
p0 8.437 ± 1.12
pull
Entries 100
Mean 364.5
Std Dev 0

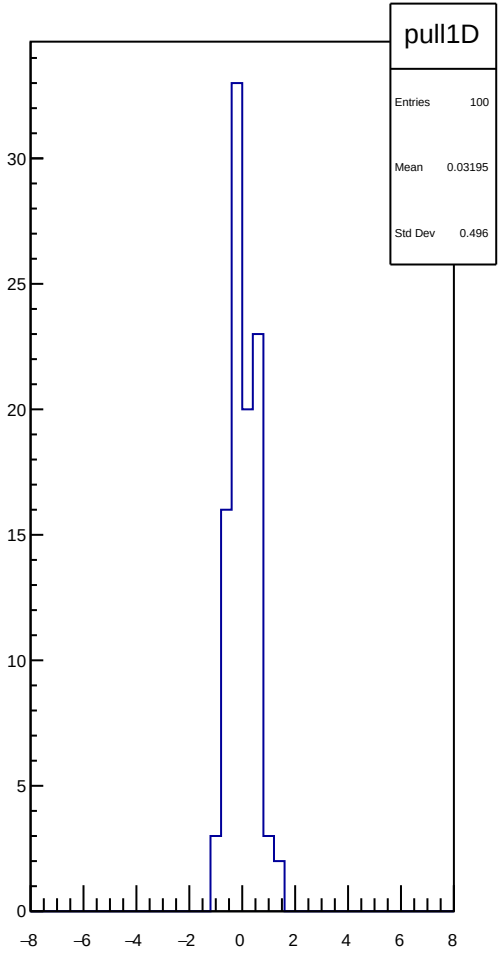

pull1D
Entries 100
Mean −0.01238
Std Dev 0.4883

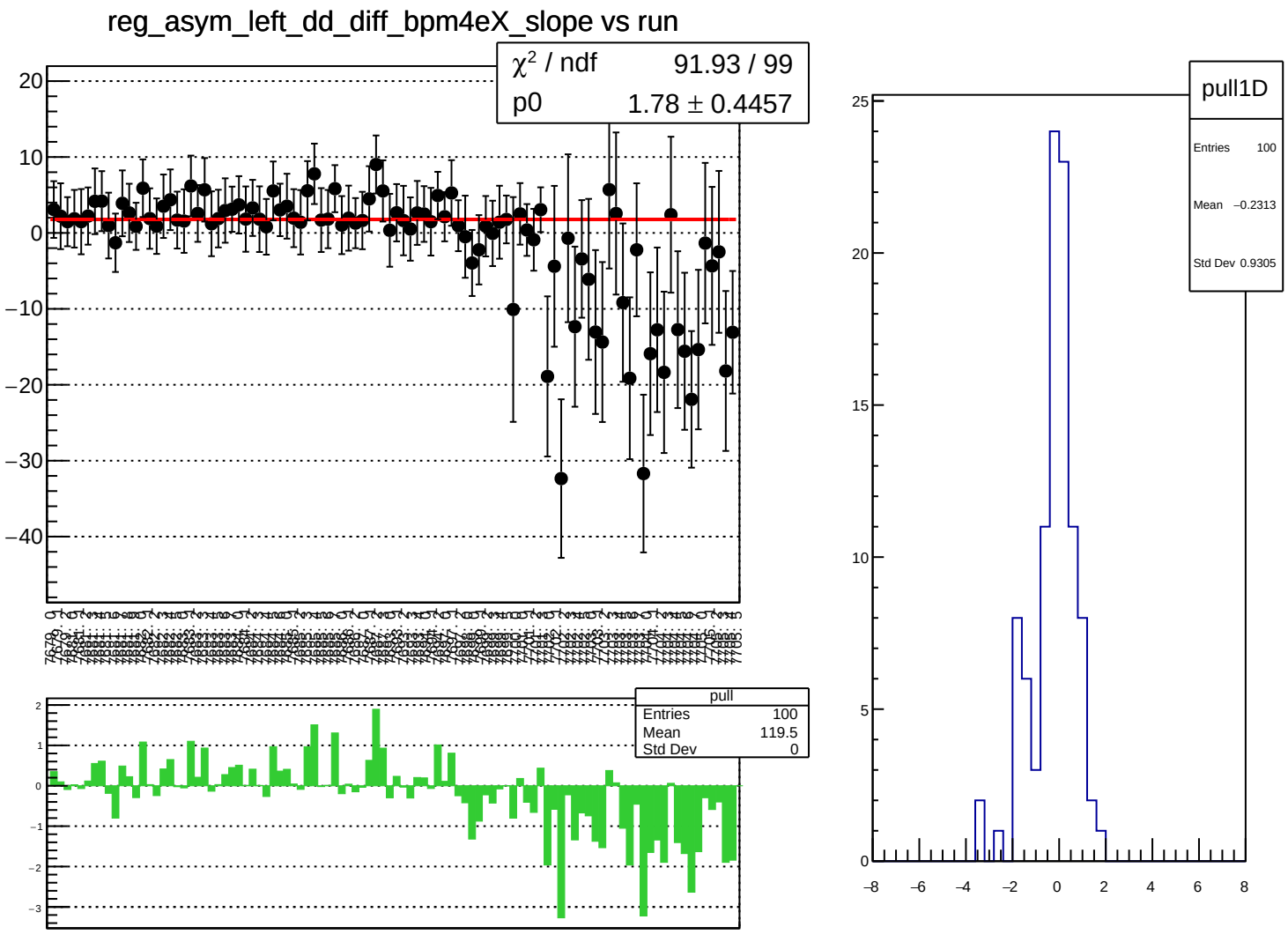

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 396.3 / 99
p0 −18.16 ± 0.04977
−16
−17
−18
−19
−20
−21
pull
Entries 100
Mean −58.42
Std Dev 0
4
3
2
1
0
−1
−2
−3

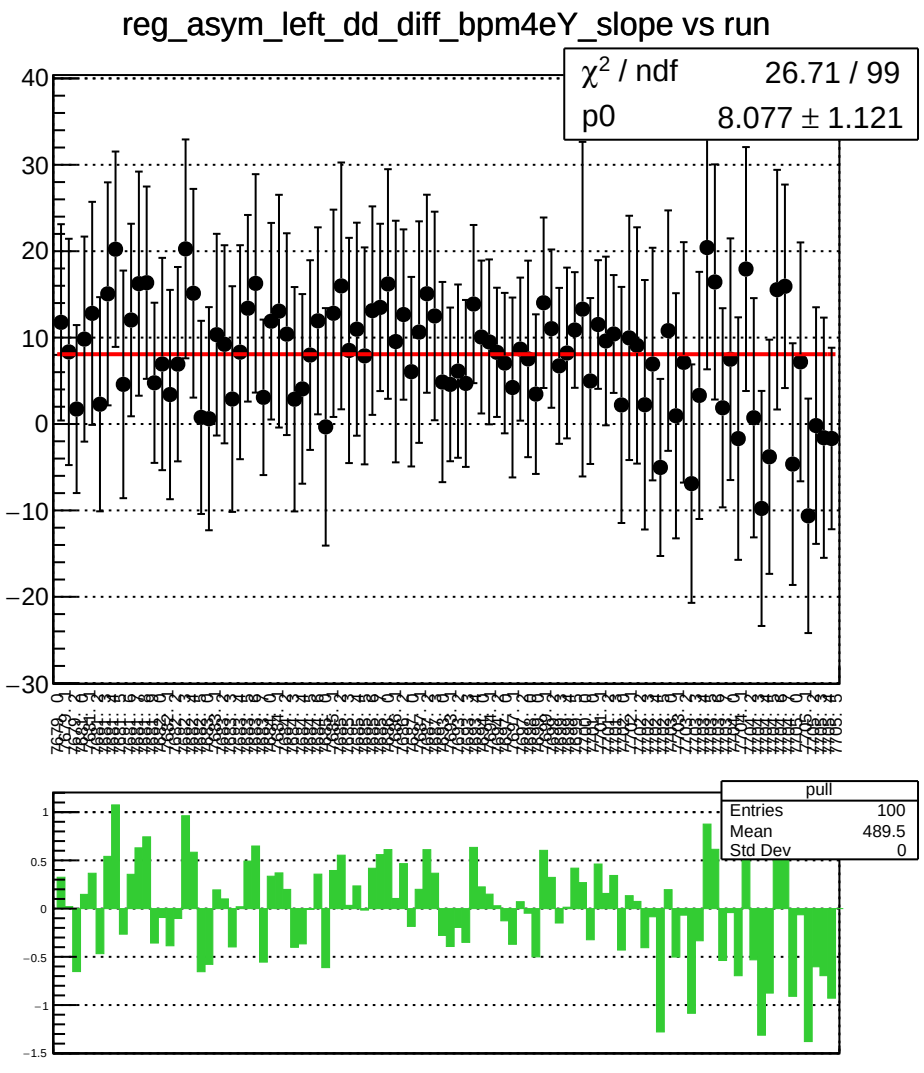

pull1D
Entries 100
Mean −0.4343
Std Dev 1.943
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

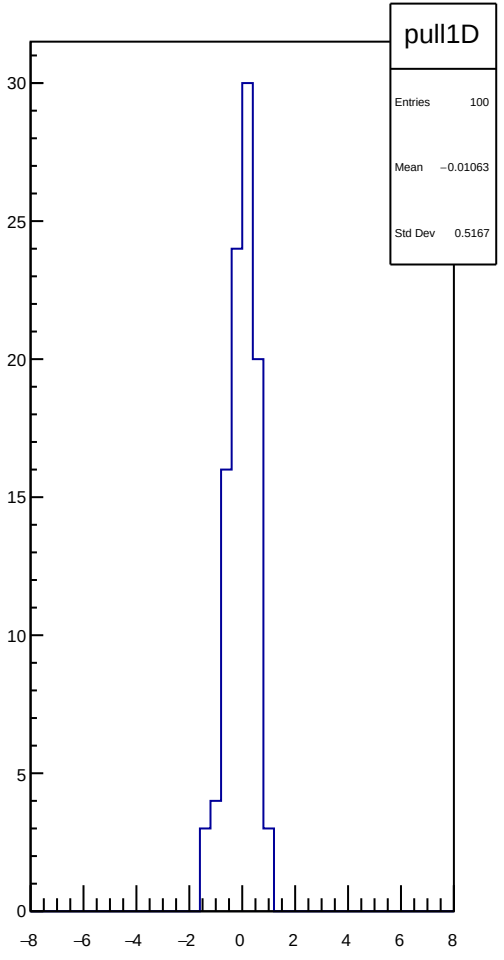

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 87.83 / 99
p0 −32.86 ± 0.55
pull
Entries 100
Mean 125.9
Std Dev 0
pull1D
Entries 100
Mean 0.2045
Std Dev 0.9146

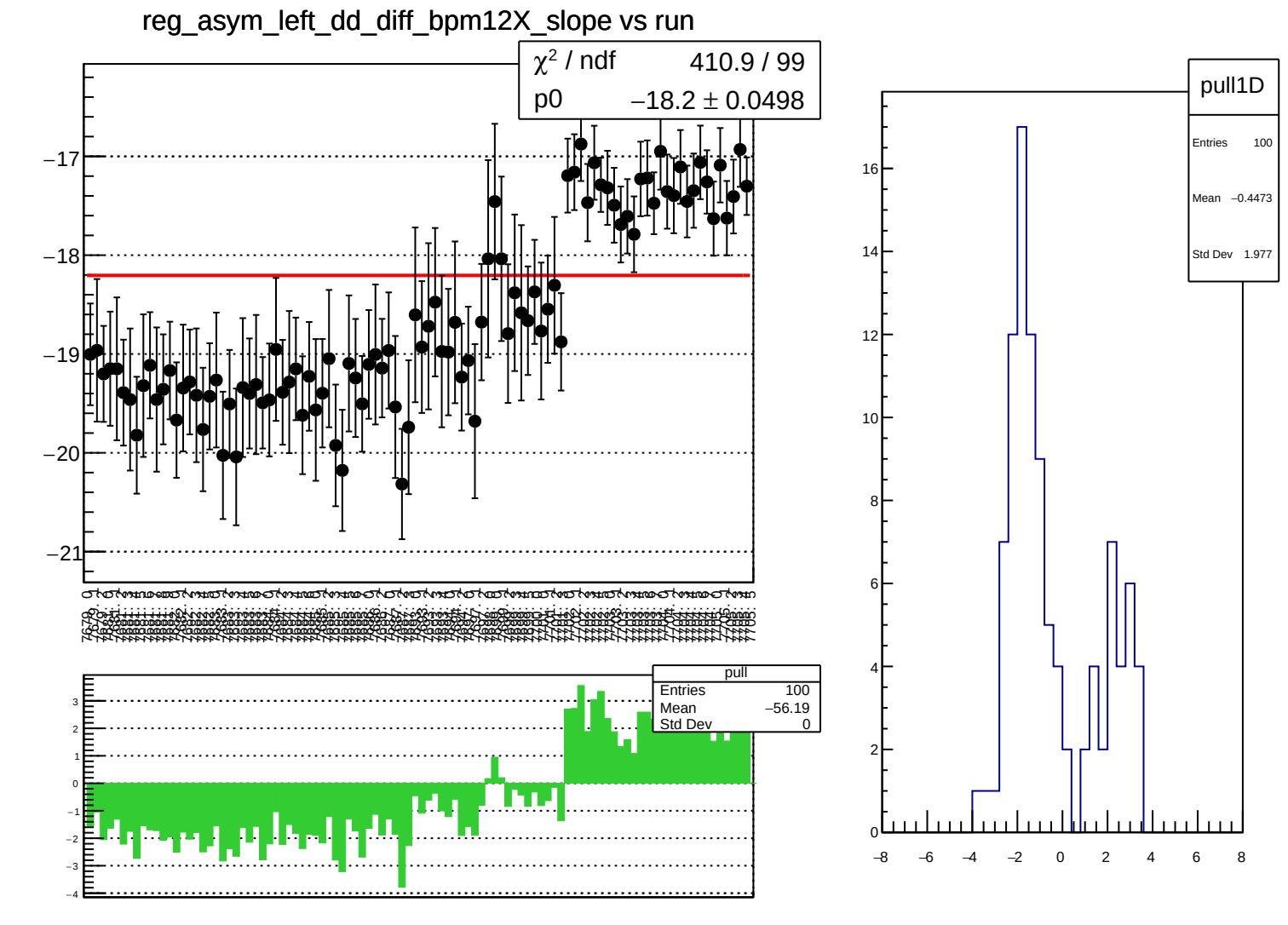

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 24.71 / 99
p0 1.766 ± 0.7727
pull
Entries 100
Mean 160.1
Std Dev 0

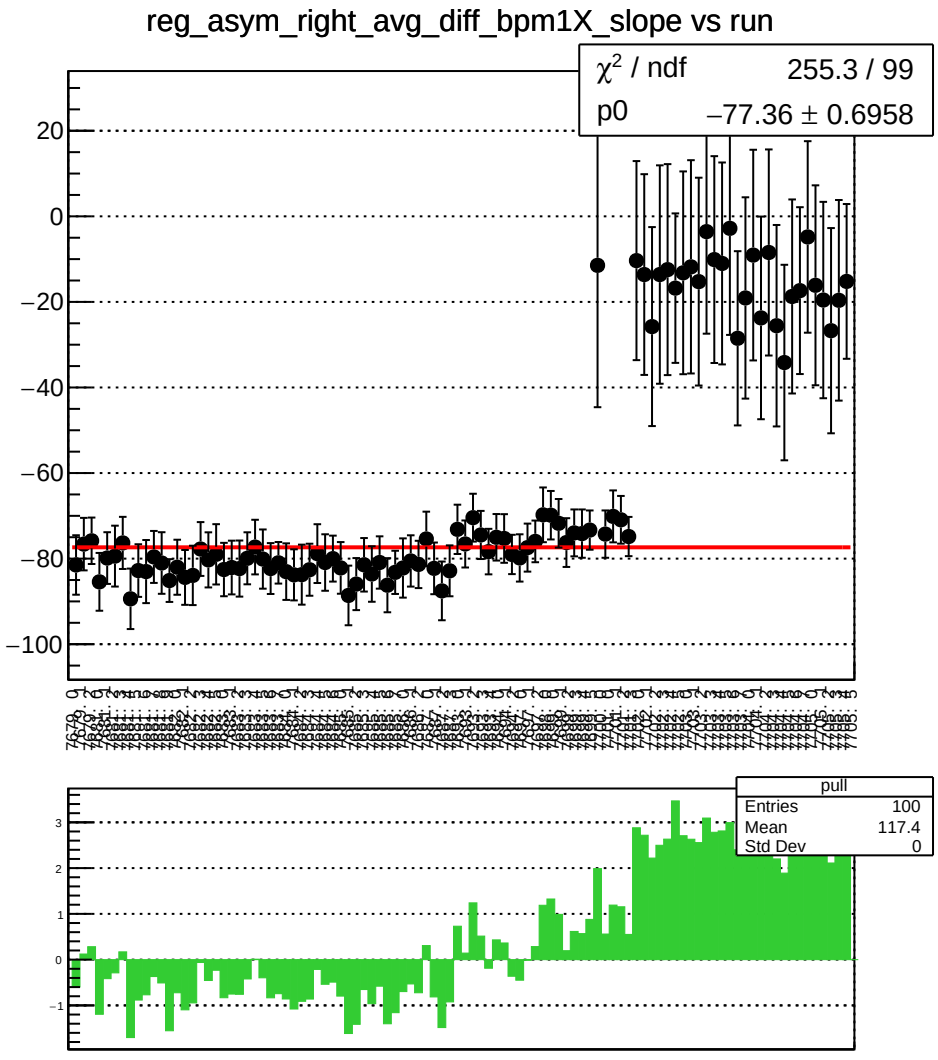

pull1D
Entries 100
Mean 0.03195
Std Dev 0.496

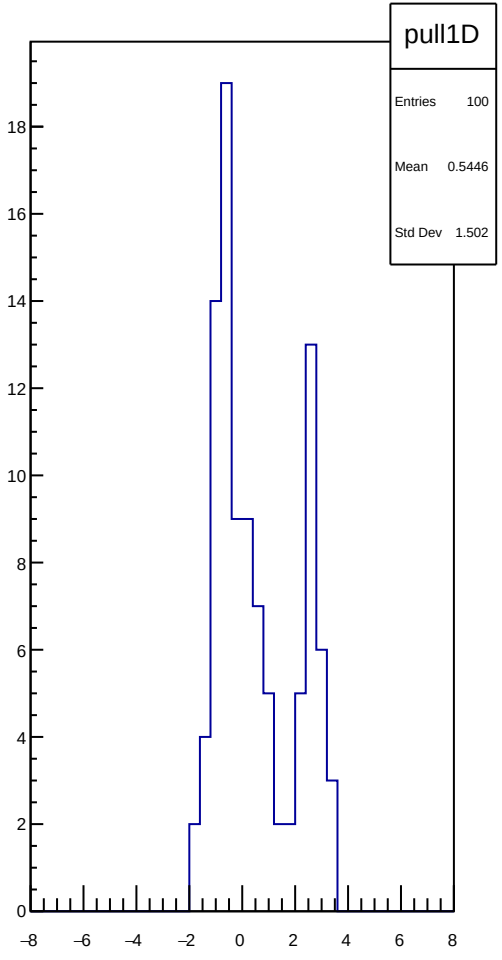

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 91.93 / 99
p0 1.78 ± 0.4457
pull
Entries 100
Mean 119.5
Std Dev 0
pull1D
Entries 100
Mean −0.2313
Std Dev 0.9305

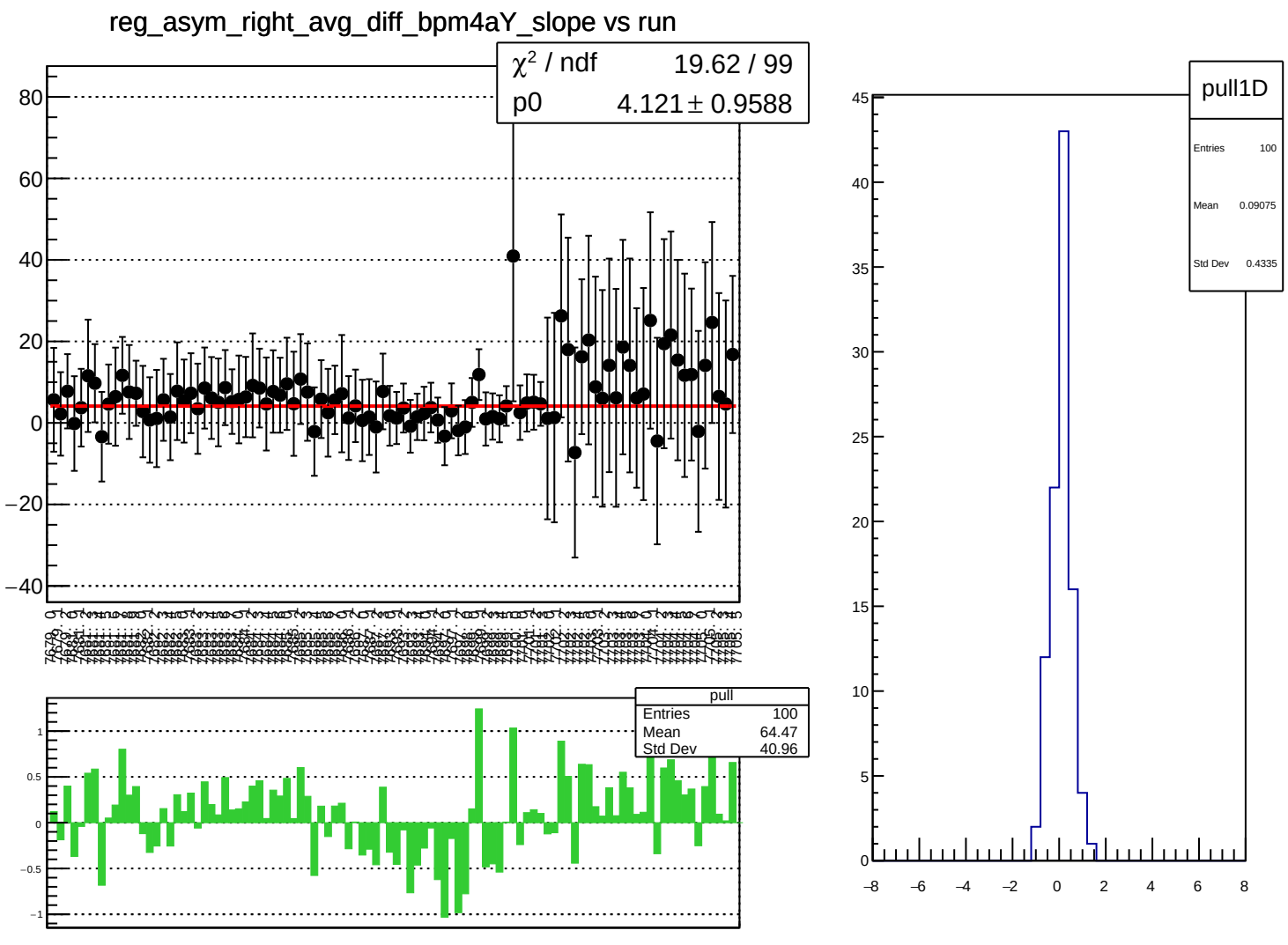

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 26.71 / 99
p0 8.077 ± 1.121
pull
Entries 100
Mean 489.5
Std Dev 0

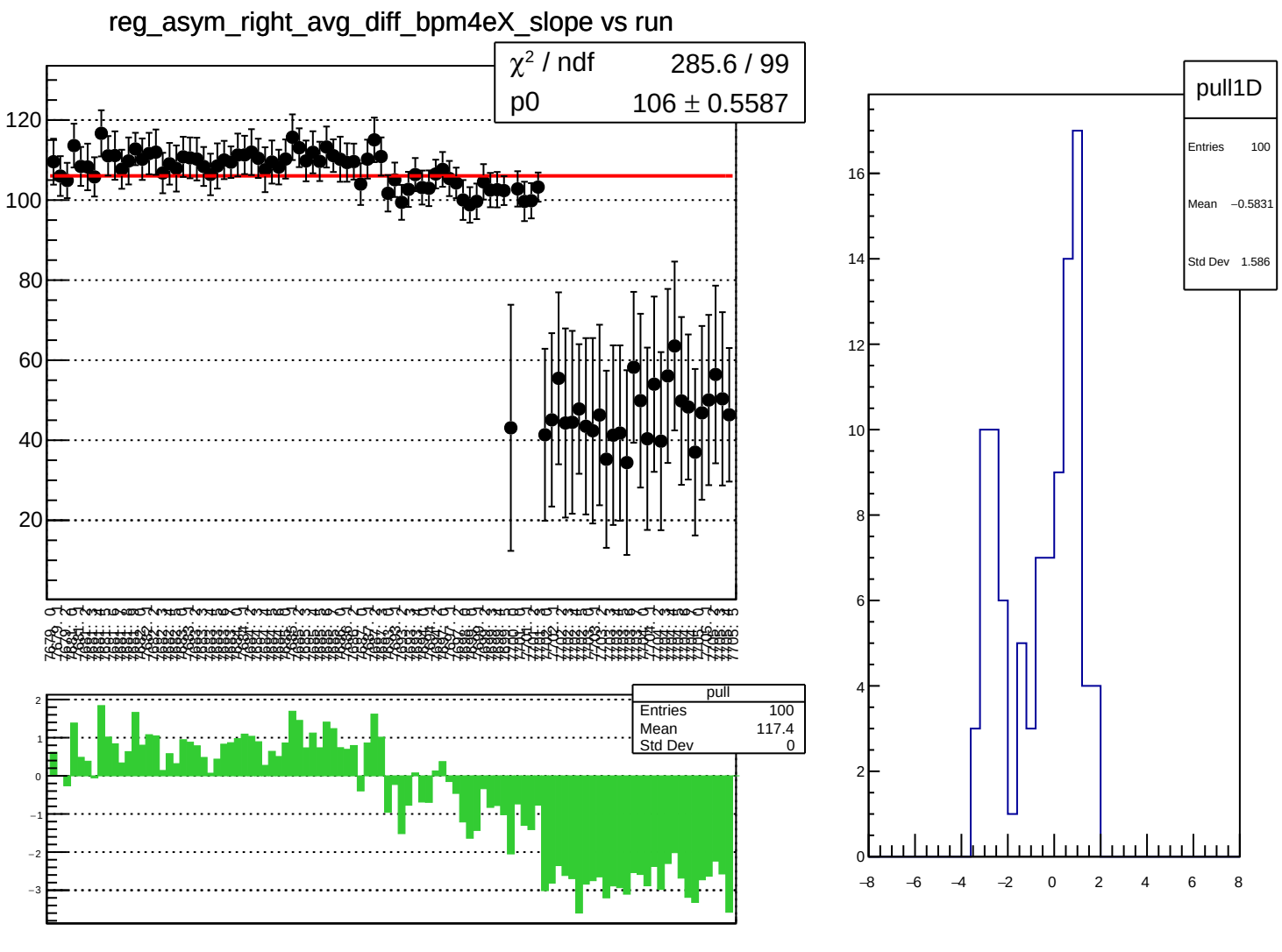

pull1D
Entries 100
Mean −0.01063
Std Dev 0.5167

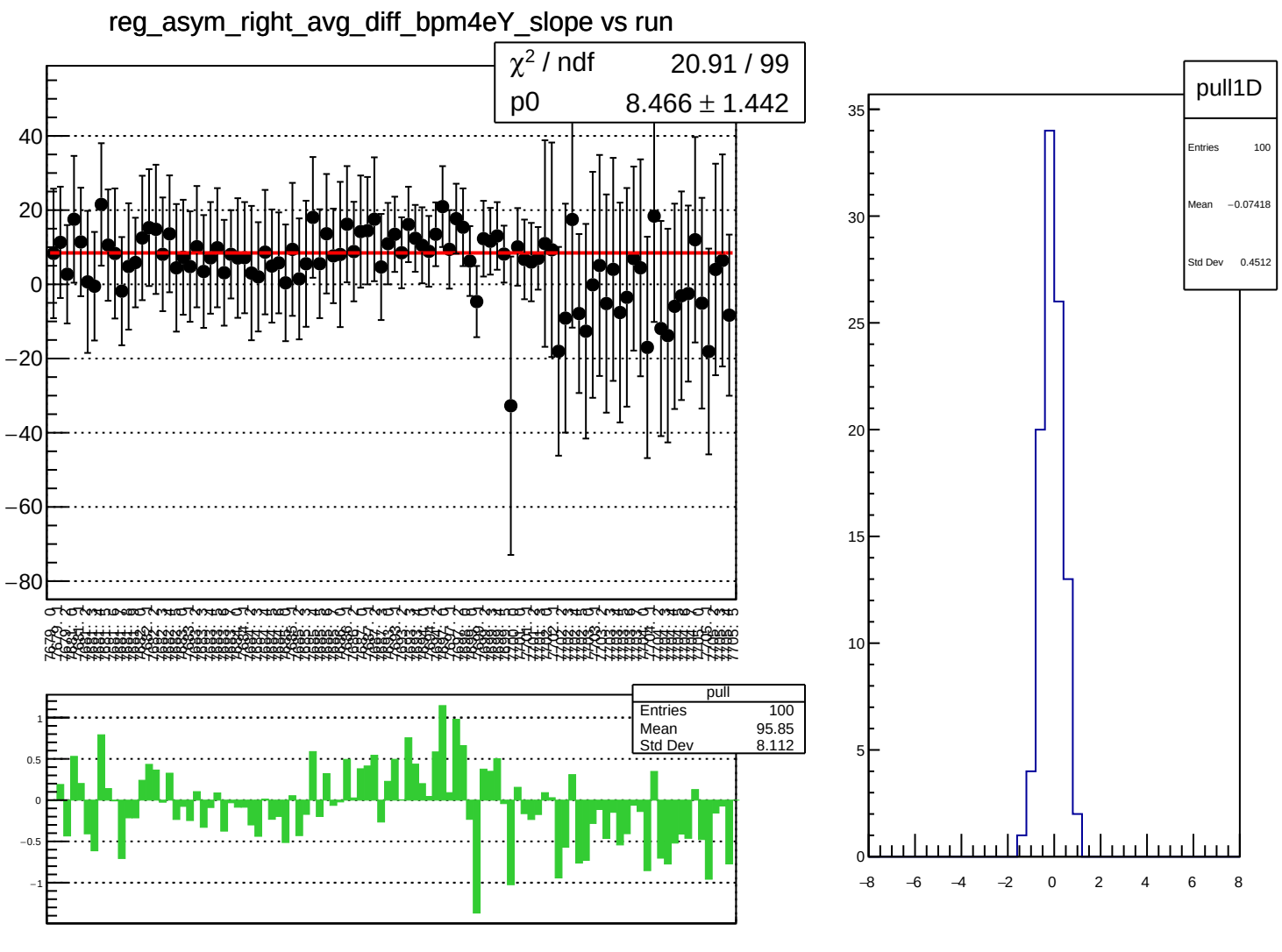

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 410.9 / 99
p0 −18.2 ± 0.0498
−17
−18
−19
−20
−21
pull
Entries 100
Mean −56.19
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 100
Mean −0.4473
Std Dev 1.977
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

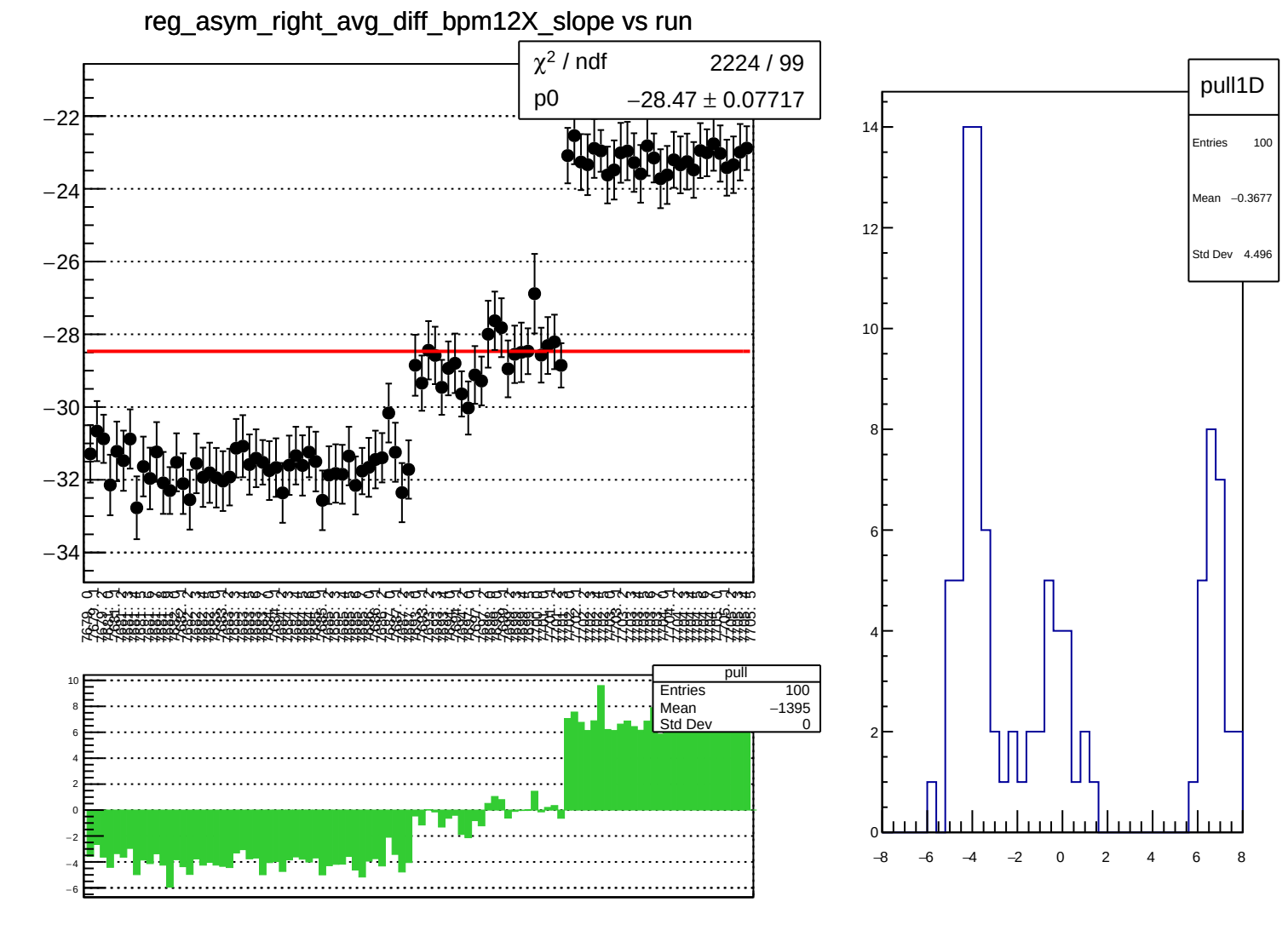

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 255.3 / 99
p0 −77.36 ± 0.6958
pull
Entries 100
Mean 117.4
Std Dev 0

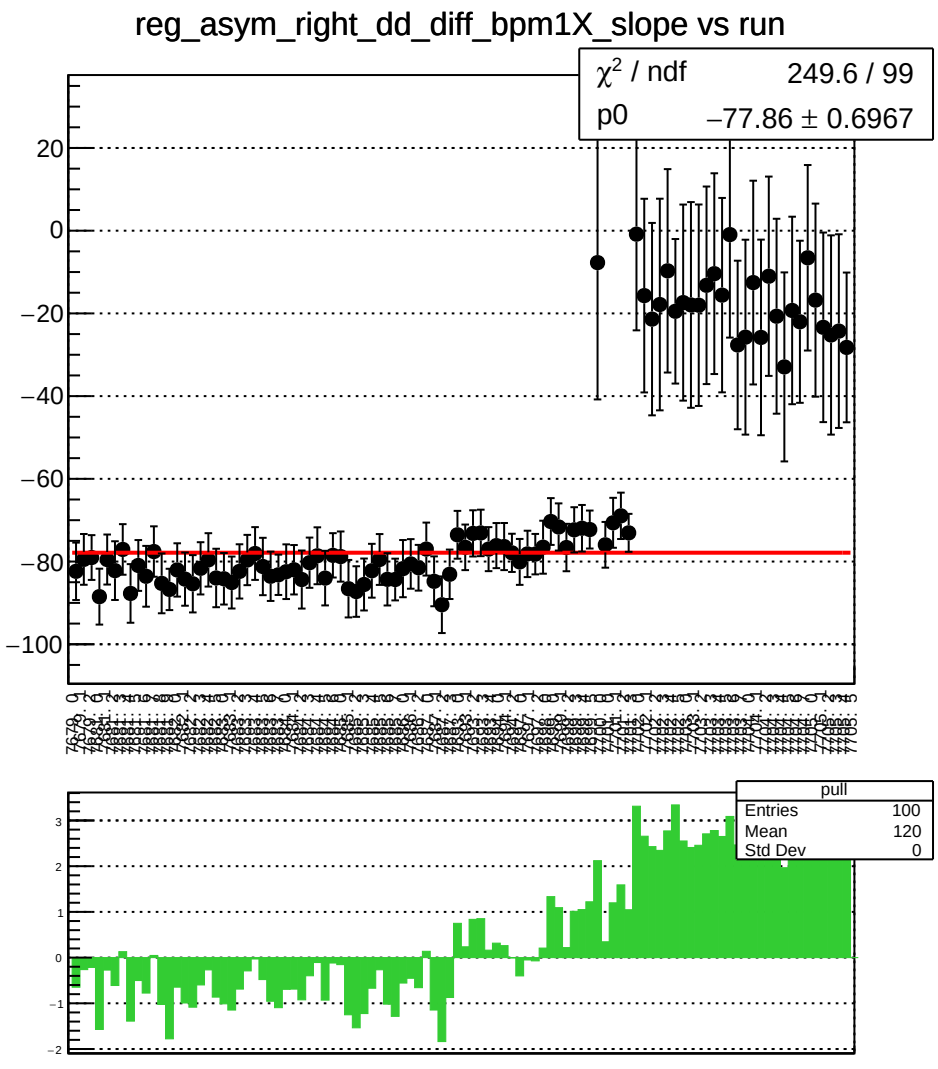

pull1D
Entries 100
Mean 0.5446
Std Dev 1.502

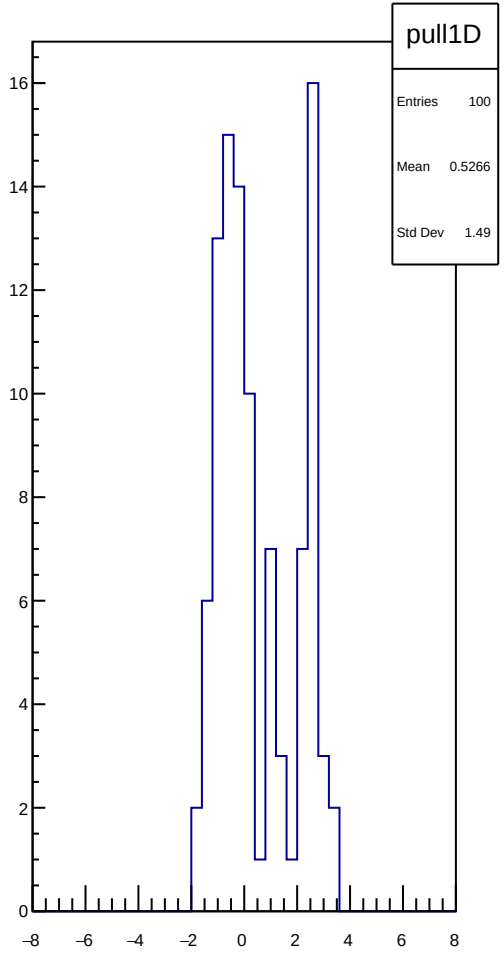

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 19.62 / 99
p0 4.121 ± 0.9588
pull
Entries 100
Mean 64.47
Std Dev 40.96
pull1D
Entries 100
Mean 0.09075
Std Dev 0.4335

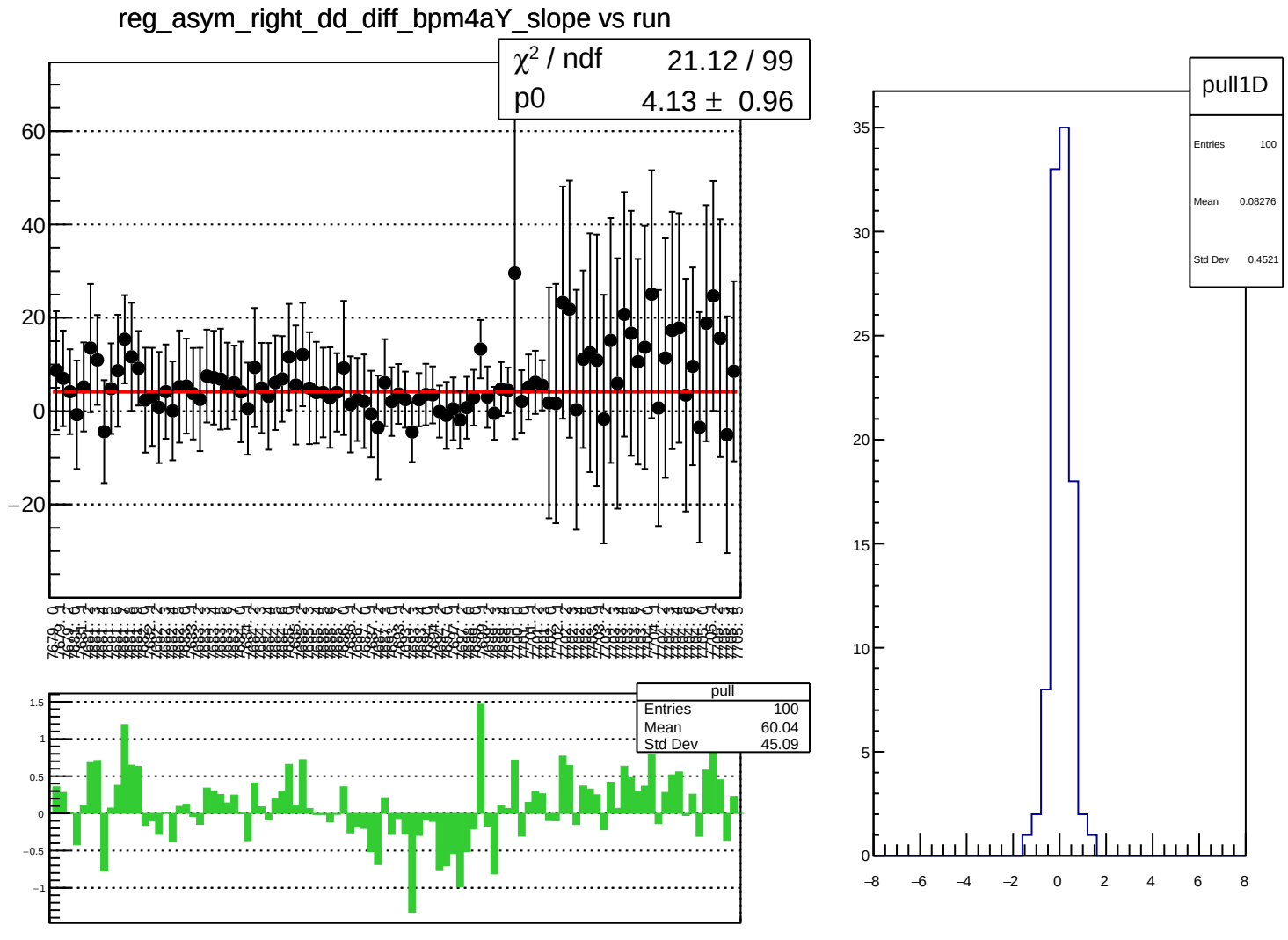

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 285.6 / 99
p0 106 ± 0.5587
120
100
80
60
40
20
pull
Entries 100
Mean 117.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean −0.5831
Std Dev 1.586
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

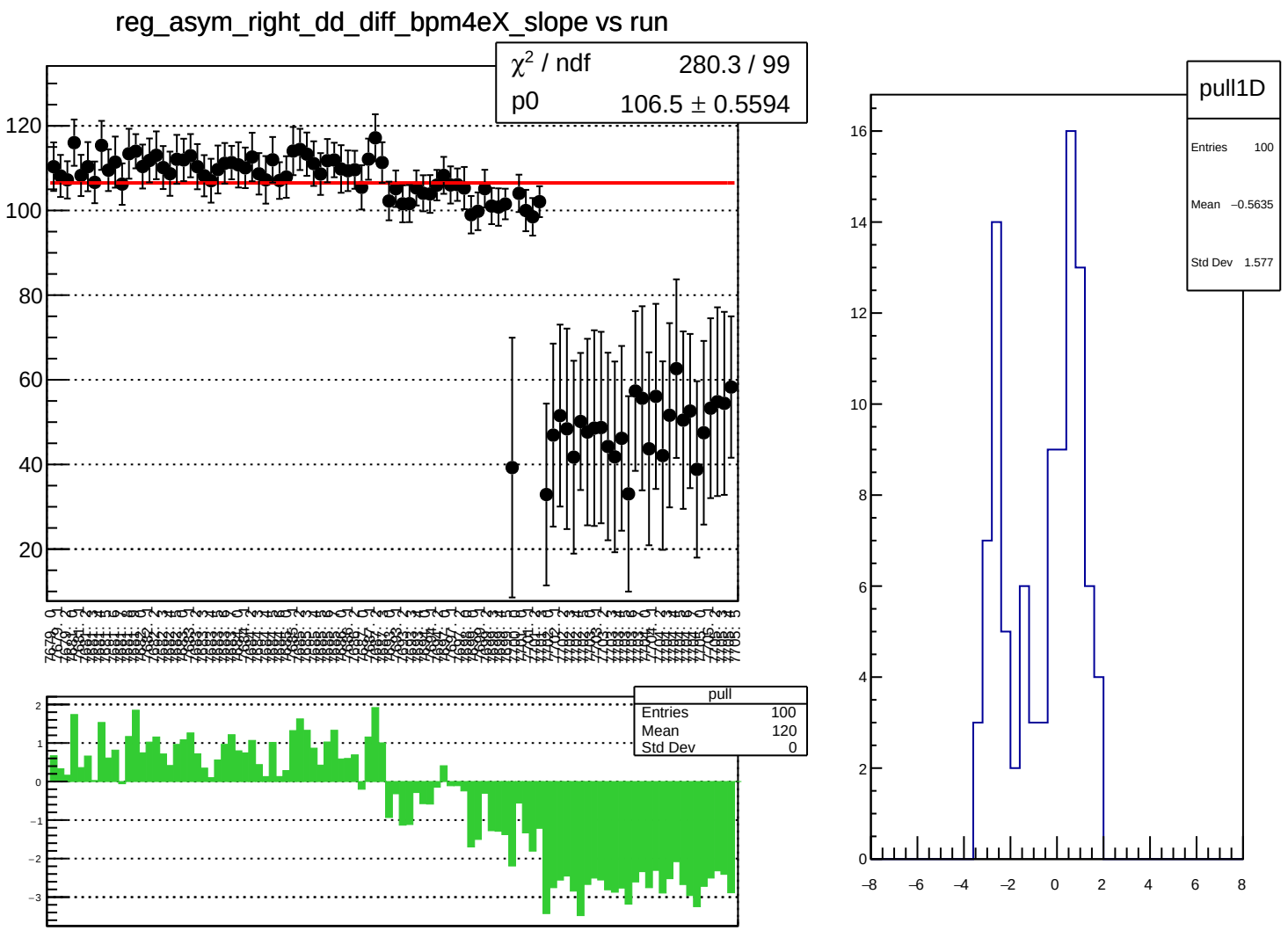

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.91 / 99
p0 8.466 ± 1.442
pull
Entries 100
Mean 95.85
Std Dev 8.112
pull1D
Entries 100
Mean −0.07418
Std Dev 0.4512

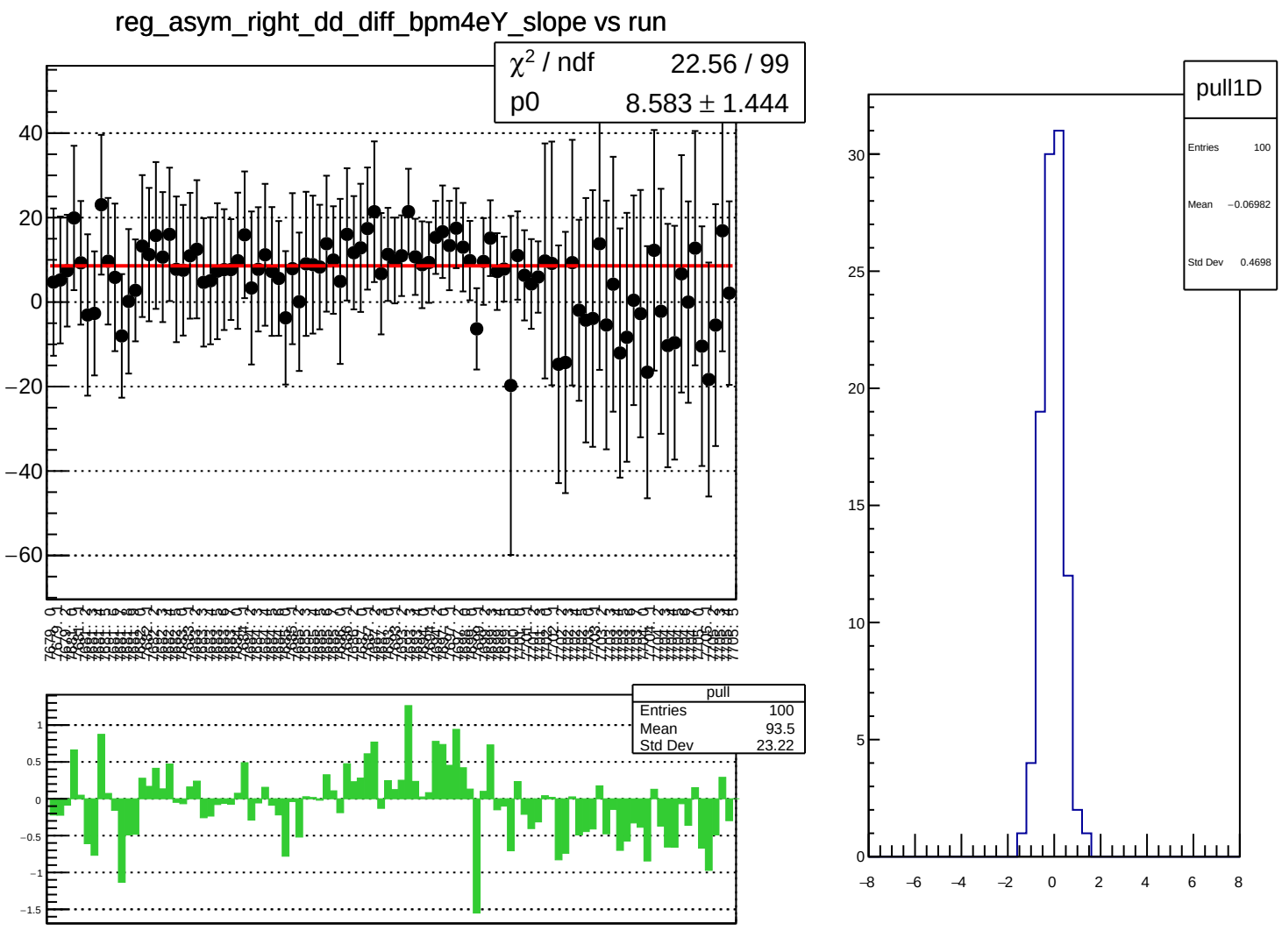

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 2224 / 99
p0 −28.47 ± 0.07717
−22
−24
−26
−28
−30
−32
−34
pull
Entries 100
Mean −1395
Std Dev 0
10
8
6
4
2
0
−2
−4
−6
pull1D
Entries 100
Mean −0.3677
Std Dev 4.496
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

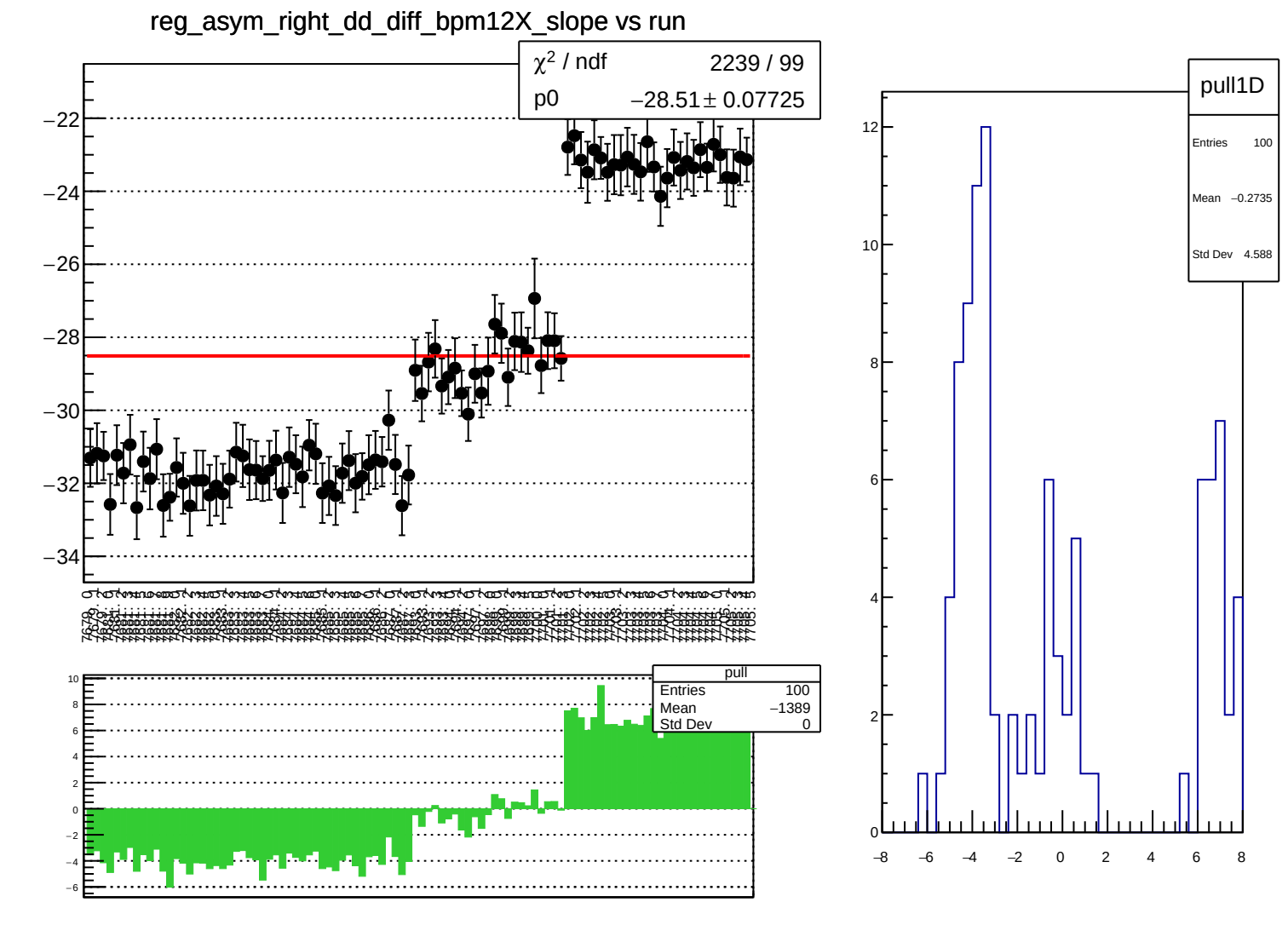

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 249.6 / 99
p0 −77.86 ± 0.6967
20
0
−20
−40
−60
−80
−100
pull
Entries 100
Mean 120
Std Dev 0
3
2
1
0
−1
−2

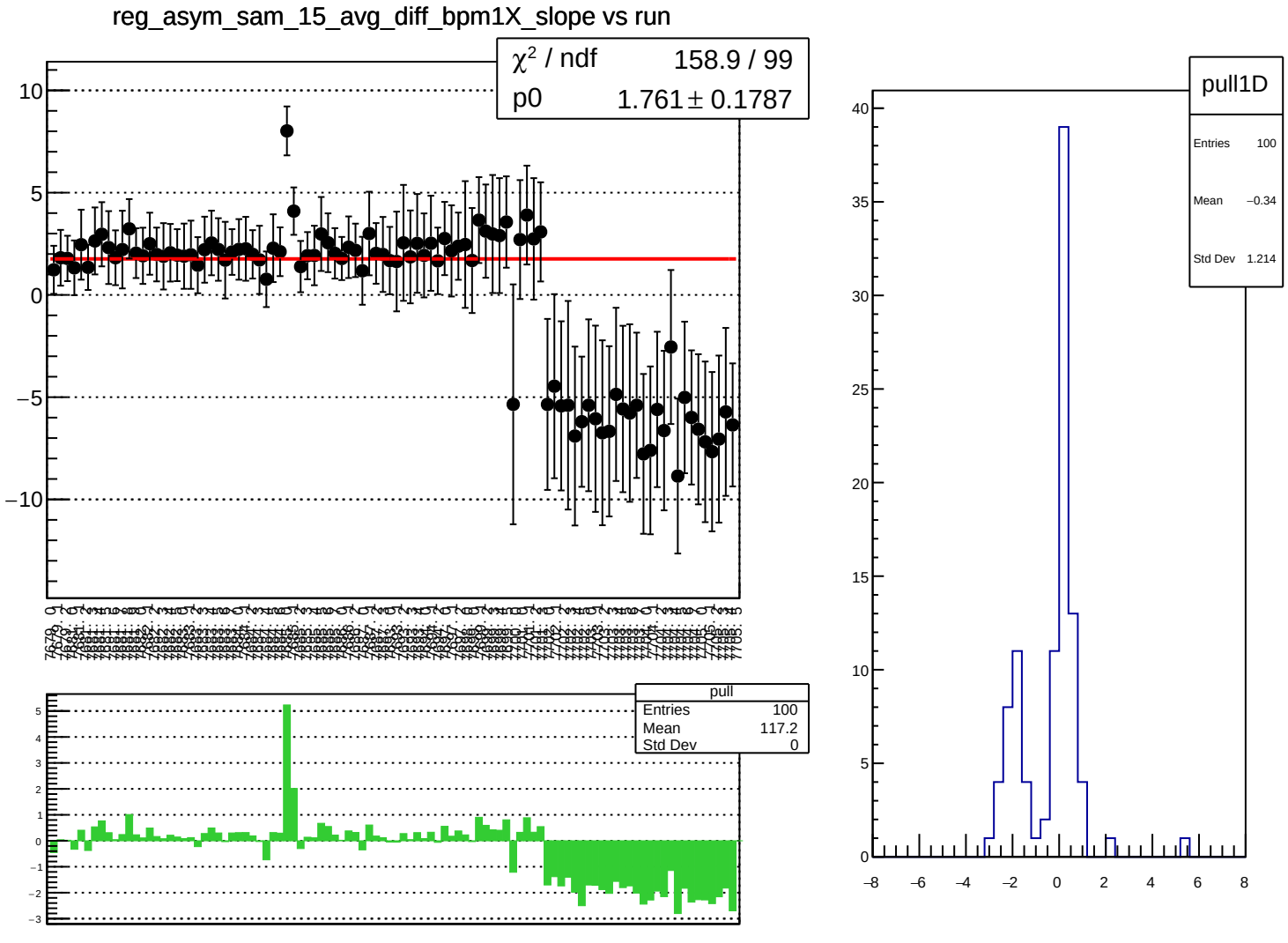

pull1D
Entries 100
Mean 0.5266
Std Dev 1.49
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

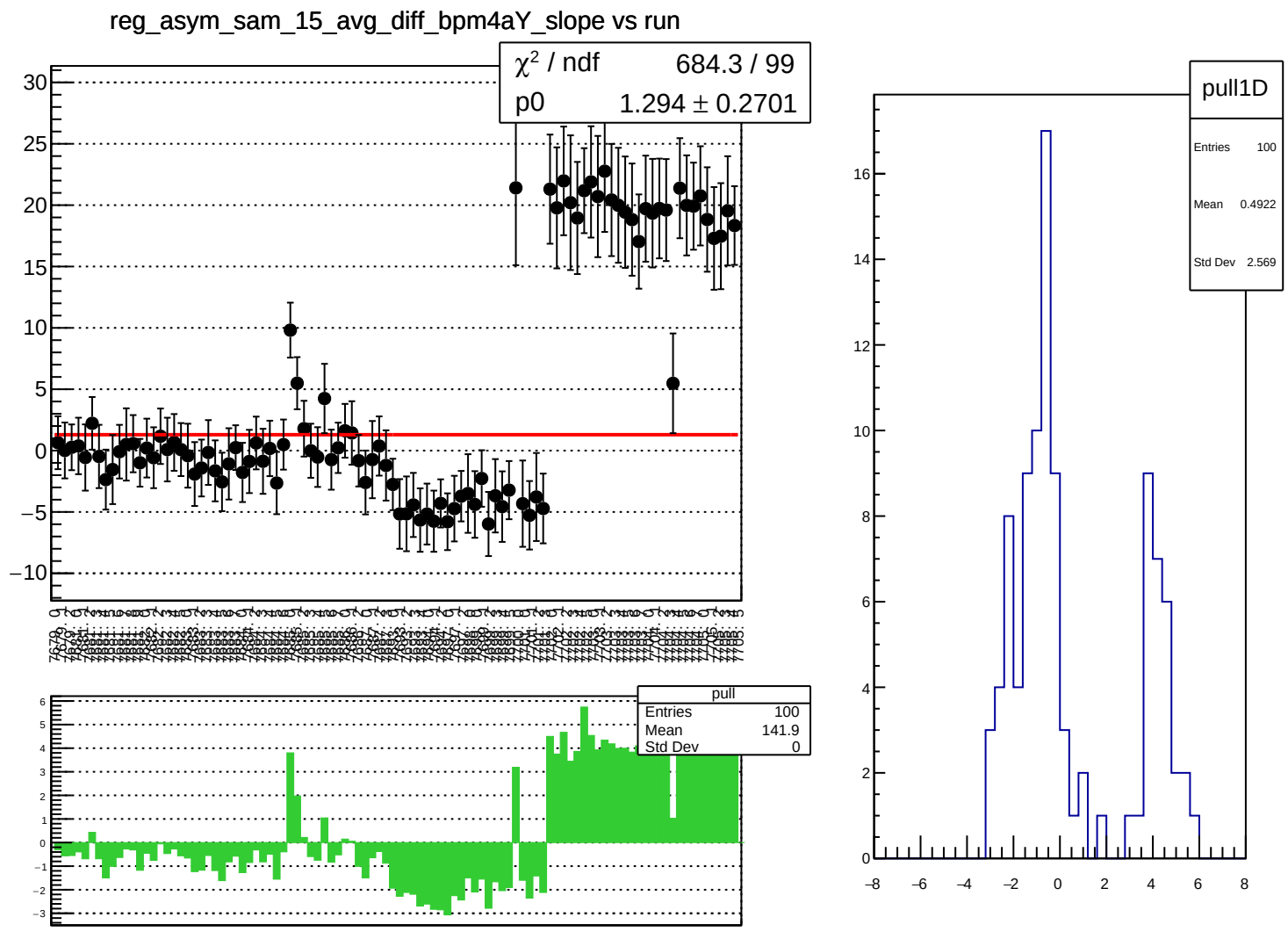

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.12 / 99
p0 4.13 ± 0.96
pull
Entries 100
Mean 60.04
Std Dev 45.09
pull1D
Entries 100
Mean 0.08276
Std Dev 0.4521

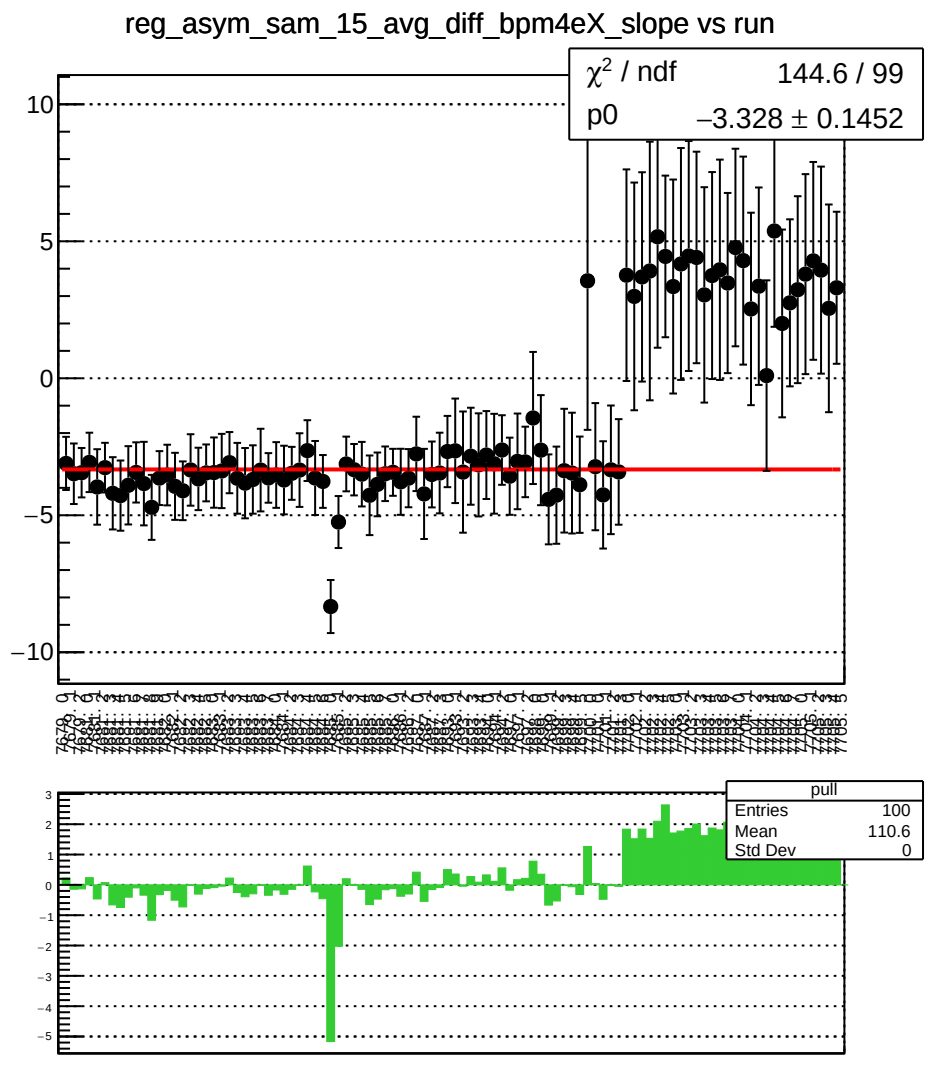

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 280.3 / 99
p0 106.5 ± 0.5594
120
100
80
60
40
20
pull
Entries 100
Mean 120
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean −0.5635
Std Dev 1.577
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

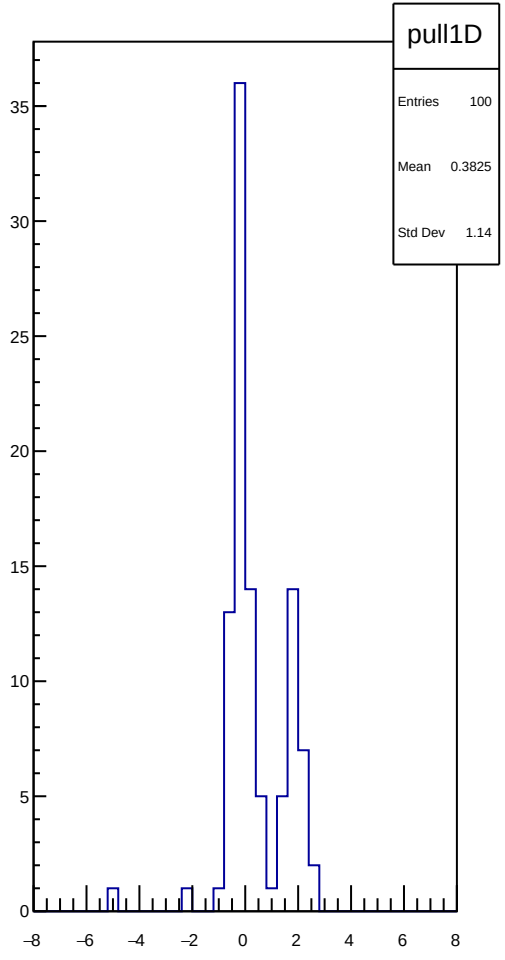

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.56 / 99
p0 8.583 ± 1.444
pull
Entries 100
Mean 93.5
Std Dev 23.22
pull1D
Entries 100
Mean −0.06982
Std Dev 0.4698

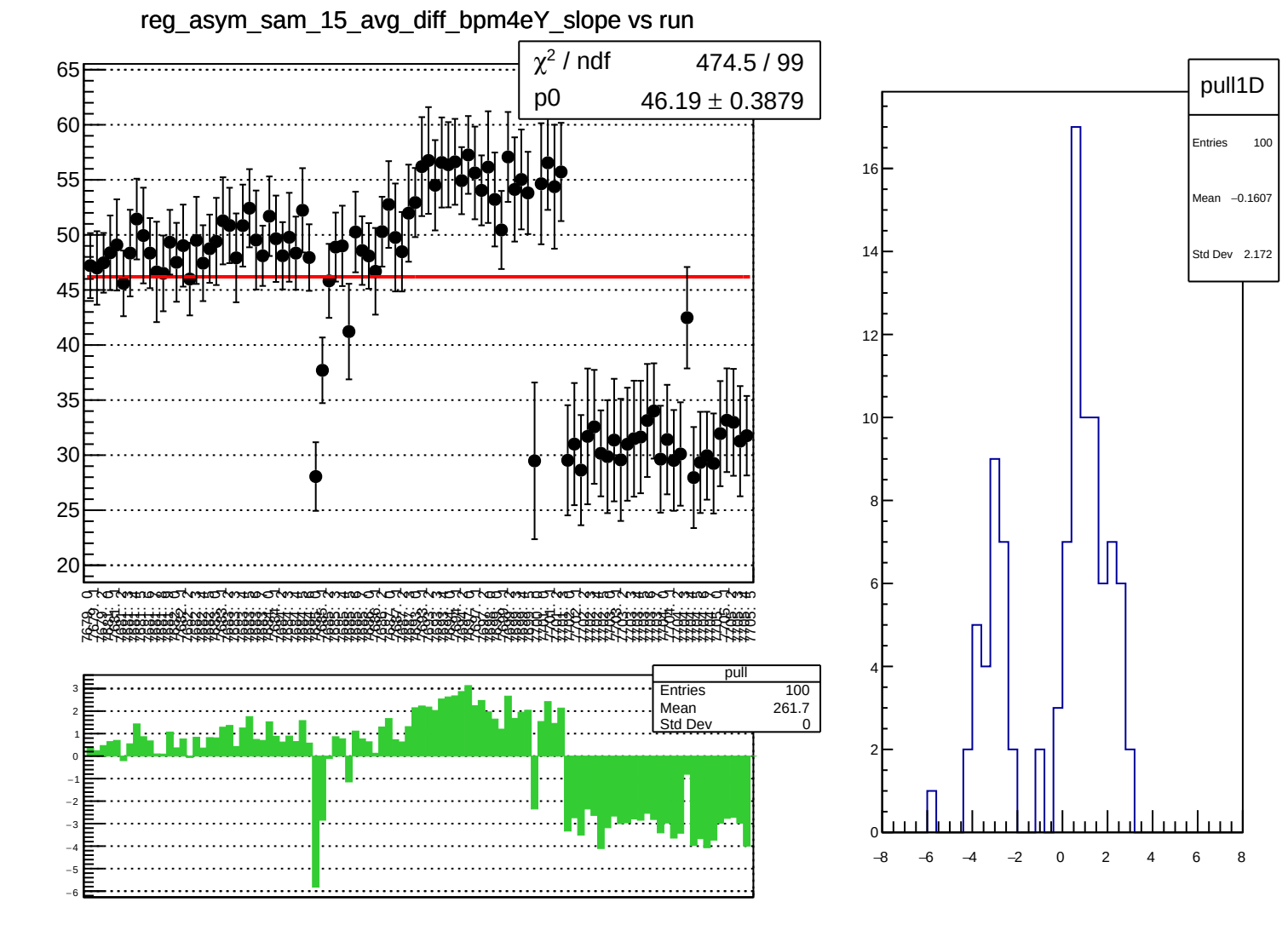

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 2239 / 99
p0 −28.51 ± 0.07725
pull
Entries 100
Mean −1389
Std Dev 0
pull1D
Entries 100
Mean −0.2735
Std Dev 4.588

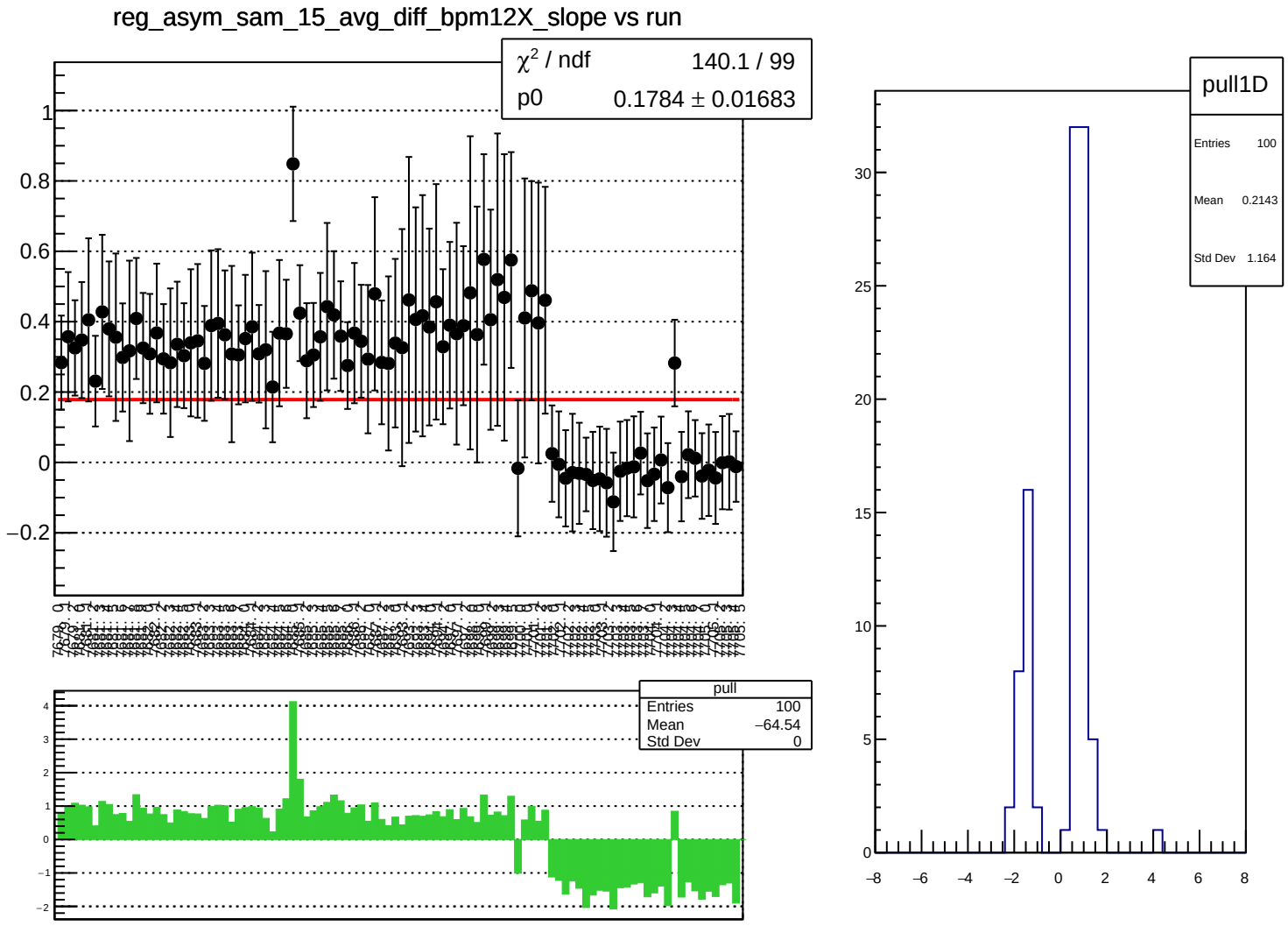

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 158.9 / 99
p0 1.761 ± 0.1787
pull
Entries 100
Mean 117.2
Std Dev 0
pull1D
Entries 100
Mean −0.34
Std Dev 1.214

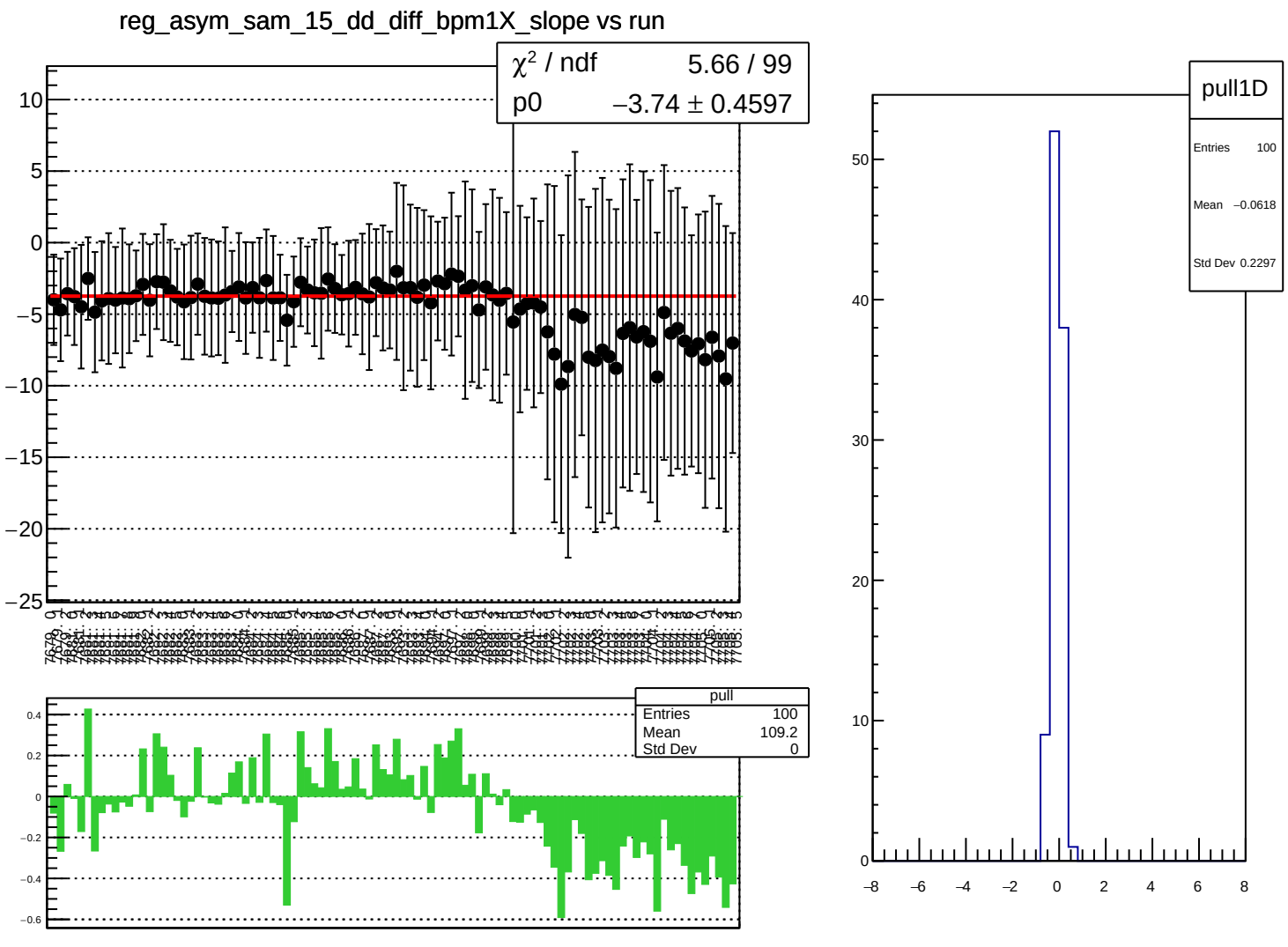

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 684.3 / 99
p0 1.294 ± 0.2701
pull
Entries 100
Mean 141.9
Std Dev 0
pull1D
Entries 100
Mean 0.4922
Std Dev 2.569

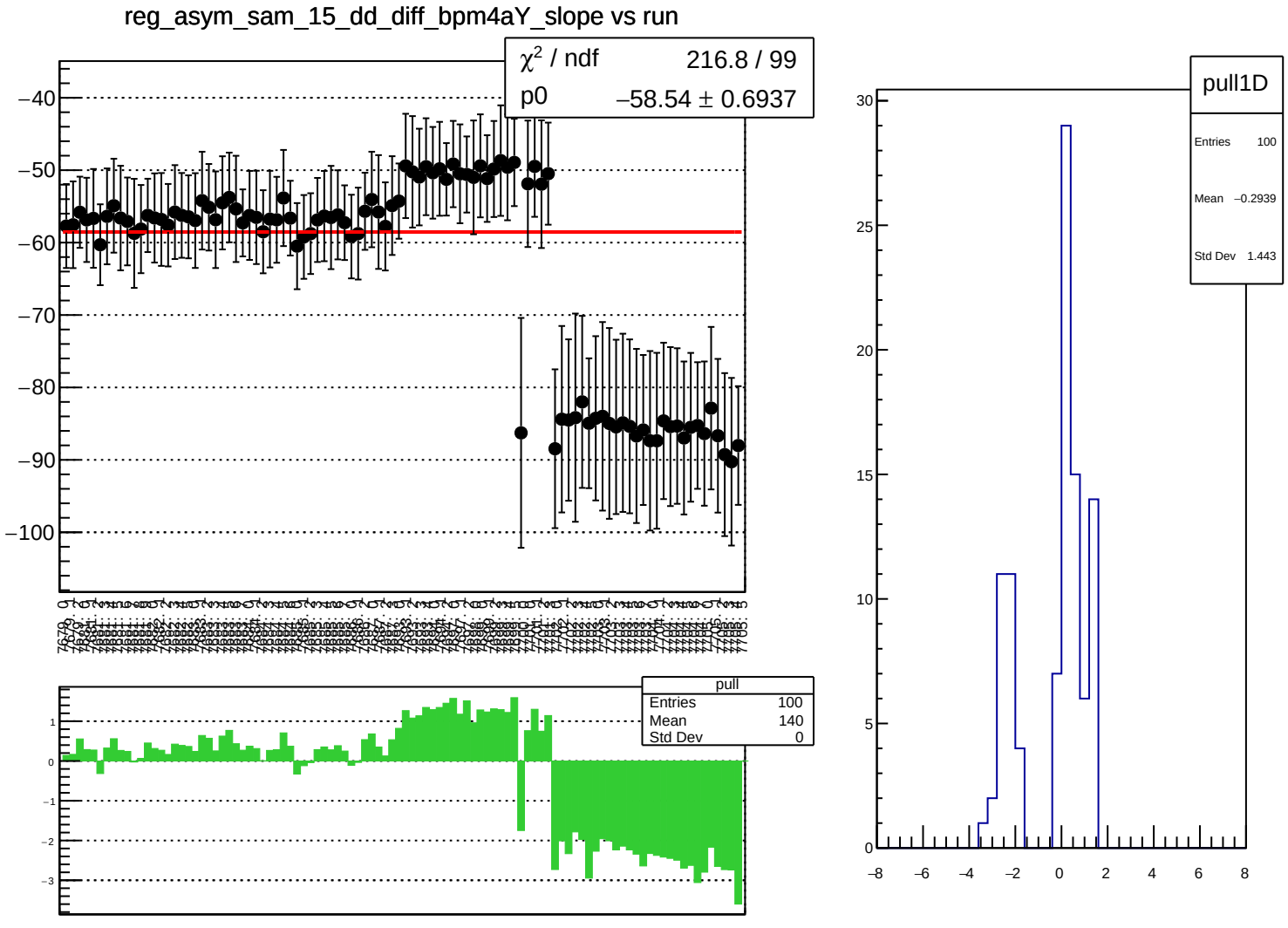

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 144.6 / 99
p0 −3.328 ± 0.1452
pull
Entries 100
Mean 110.6
Std Dev 0

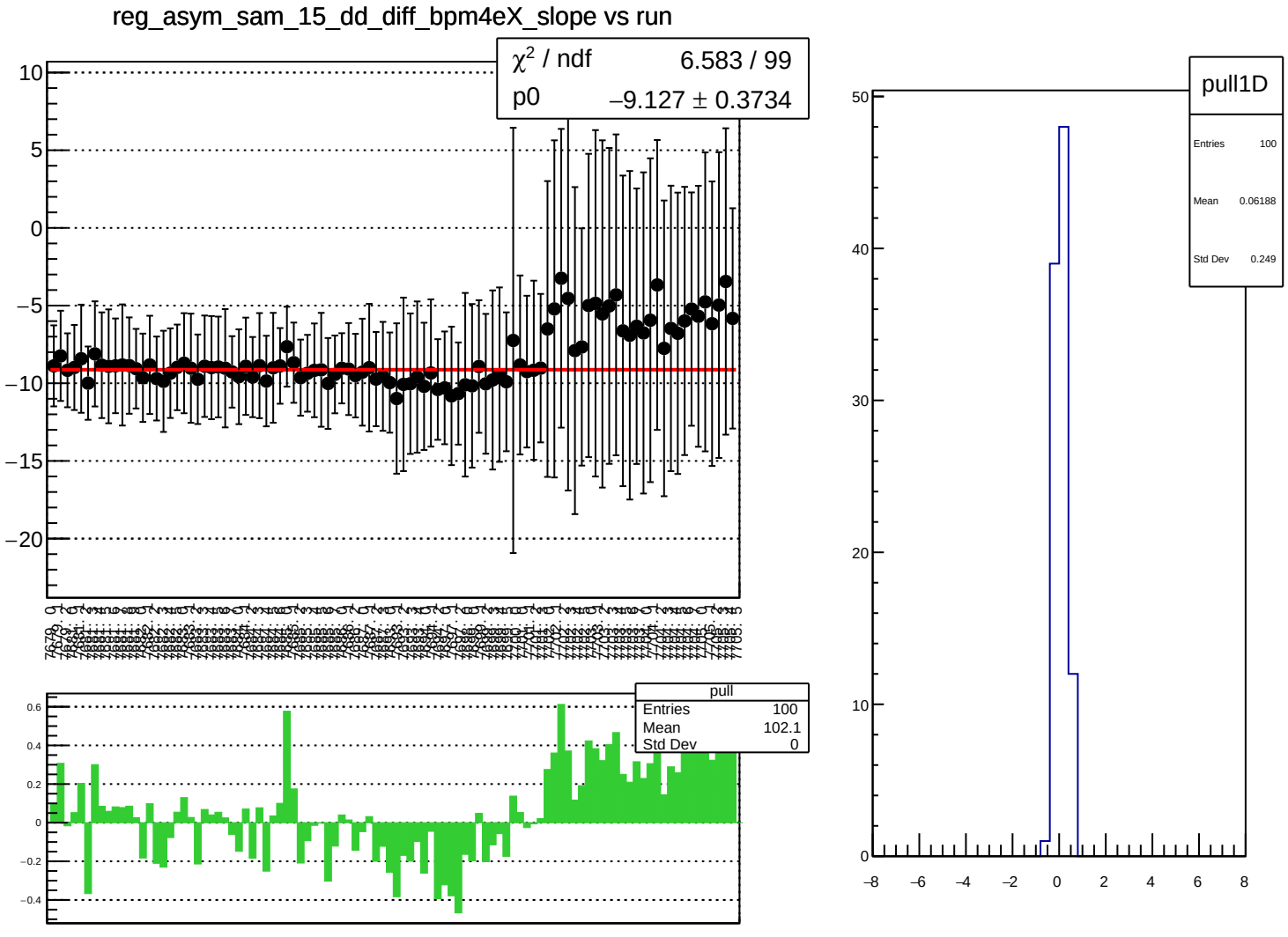

pull1D
Entries 100
Mean 0.3825
Std Dev 1.14

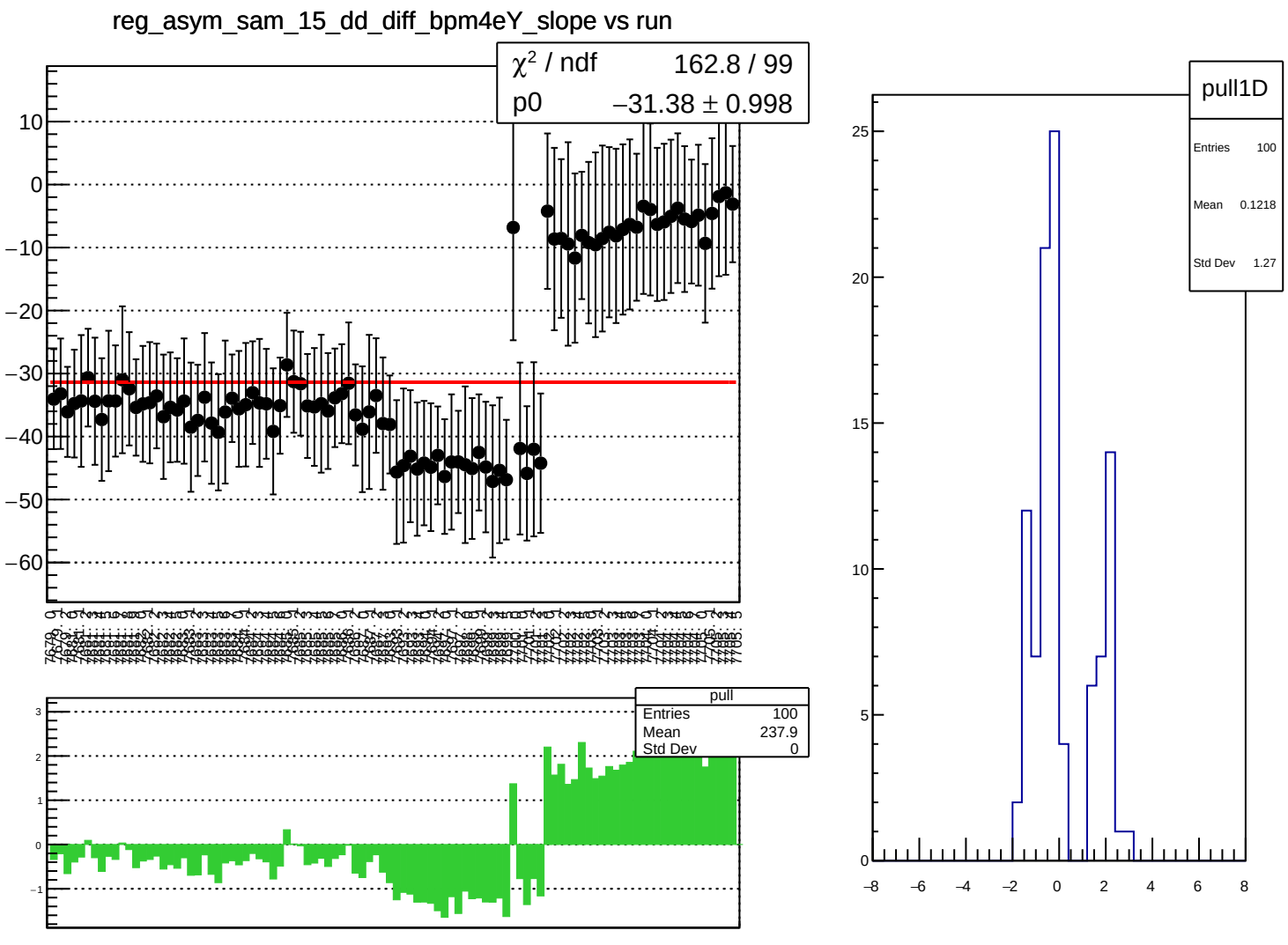

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 474.5 / 99
p0 46.19 ± 0.3879
pull
Entries 100
Mean 261.7
Std Dev 0
pull1D
Entries 100
Mean −0.1607
Std Dev 2.172

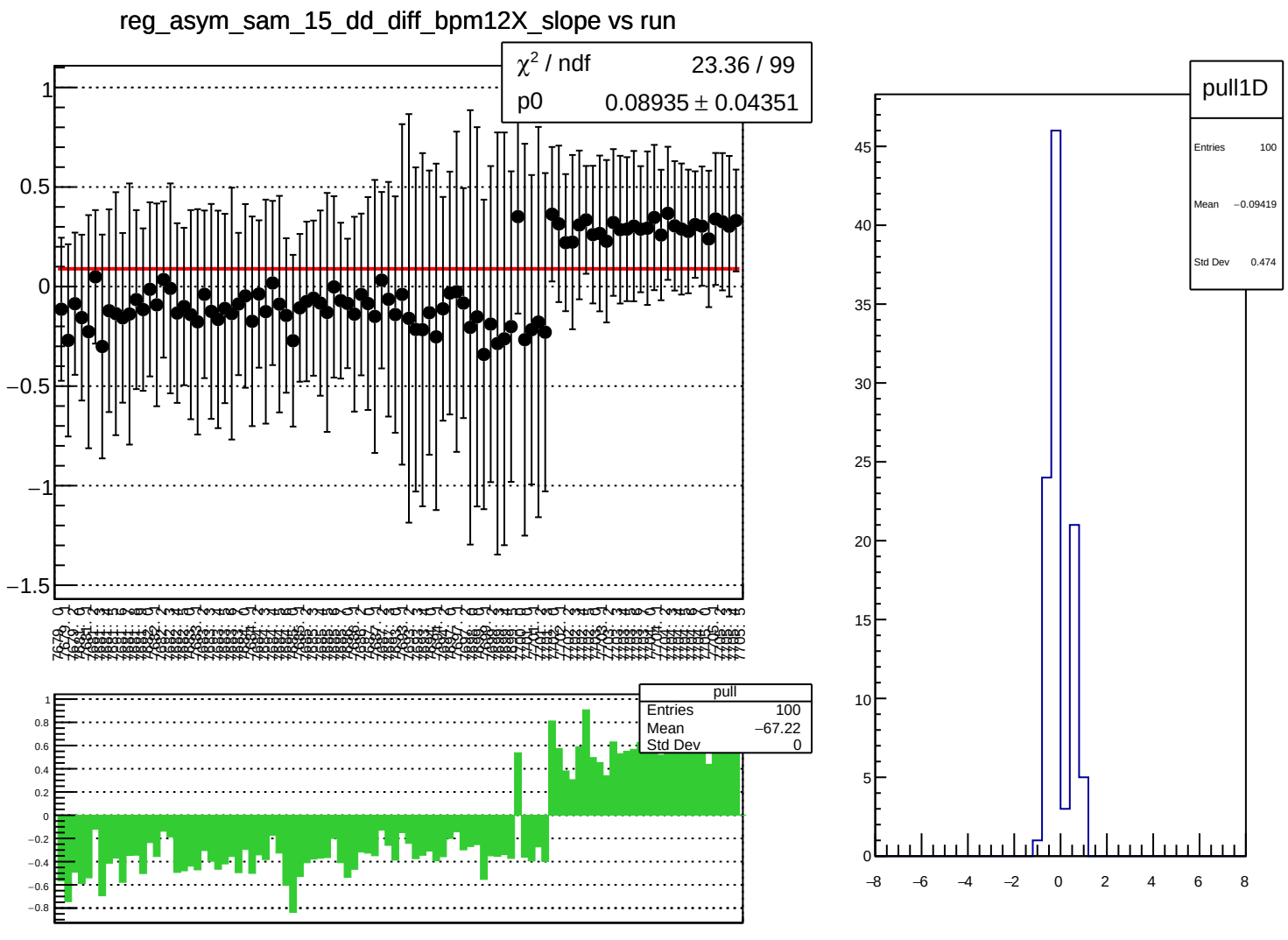

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 140.1 / 99
p0 0.1784 ± 0.01683
pull
Entries 100
Mean −64.54
Std Dev 0
pull1D
Entries 100
Mean 0.2143
Std Dev 1.164

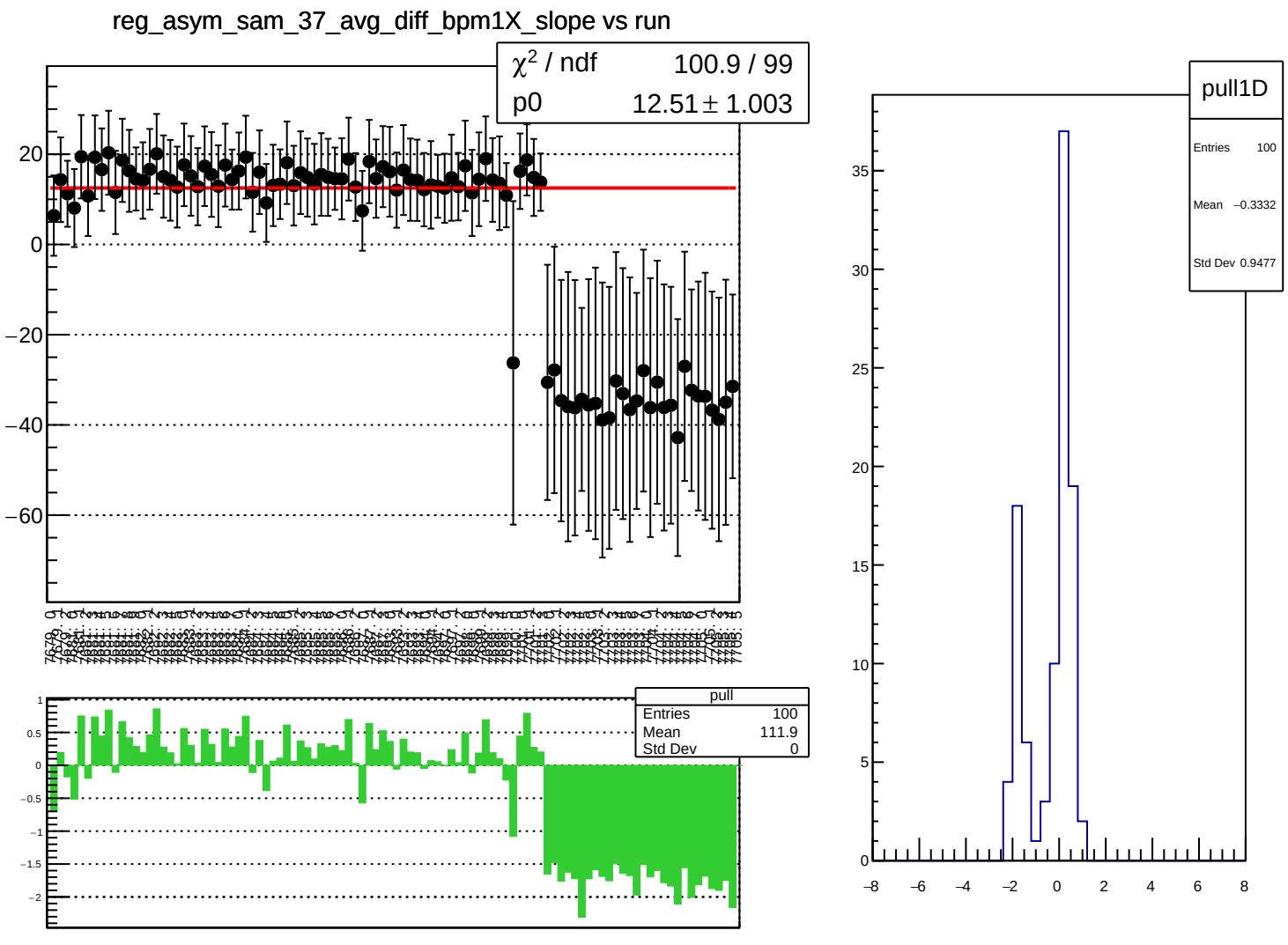

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 5.66 / 99
p0 −3.74 ± 0.4597
pull
Entries 100
Mean 109.2
Std Dev 0
pull1D
Entries 100
Mean −0.0618
Std Dev 0.2297

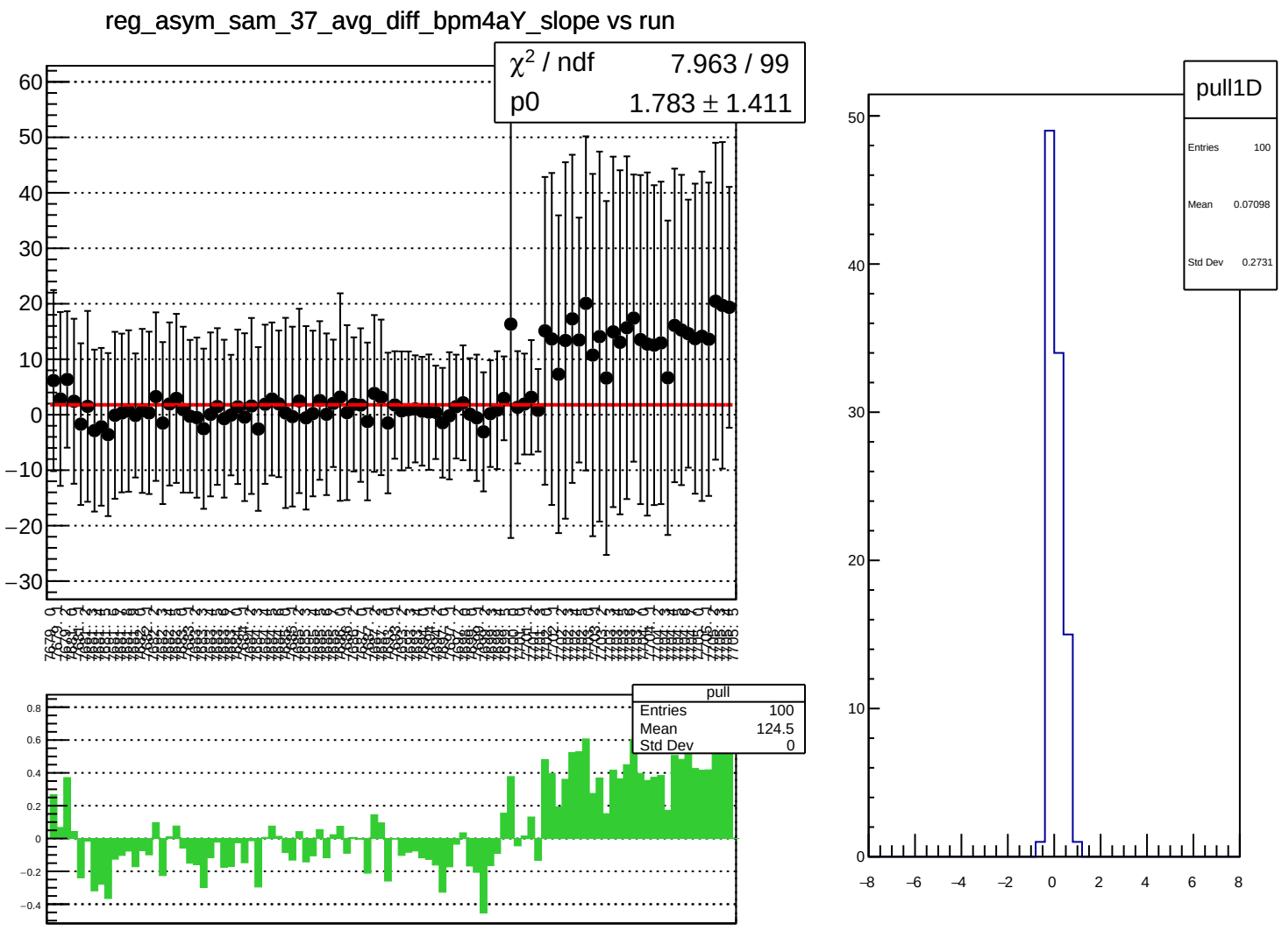

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 216.8 / 99
p0 −58.54 ± 0.6937
−40
−50
−60
−70
−80
−90
−100
pull
Entries 100
Mean 140
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 100
Mean −0.2939
Std Dev 1.443
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

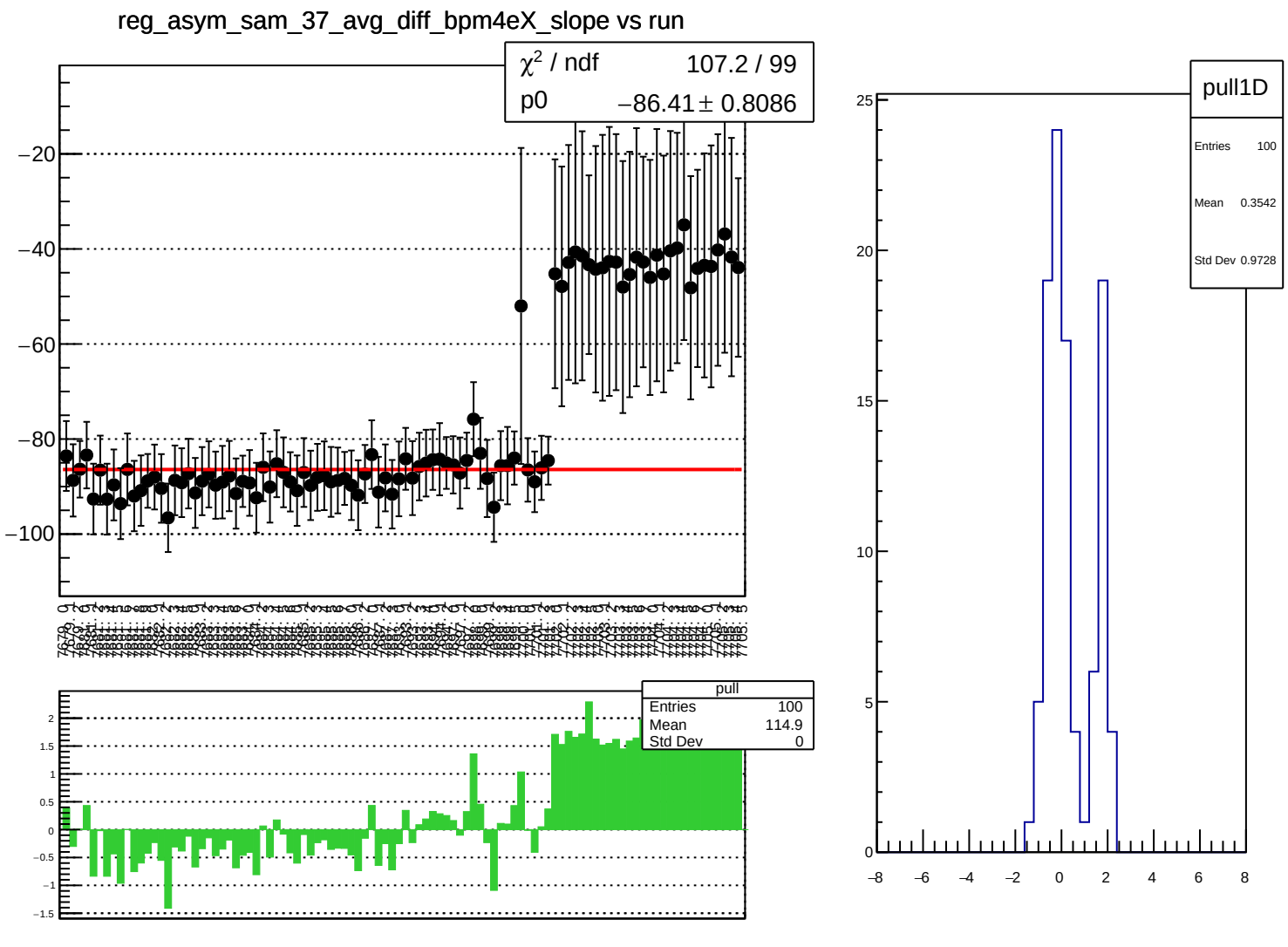

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.583 / 99
p0 −9.127 ± 0.3734
pull
Entries 100
Mean 102.1
Std Dev 0
pull1D
Entries 100
Mean 0.06188
Std Dev 0.249

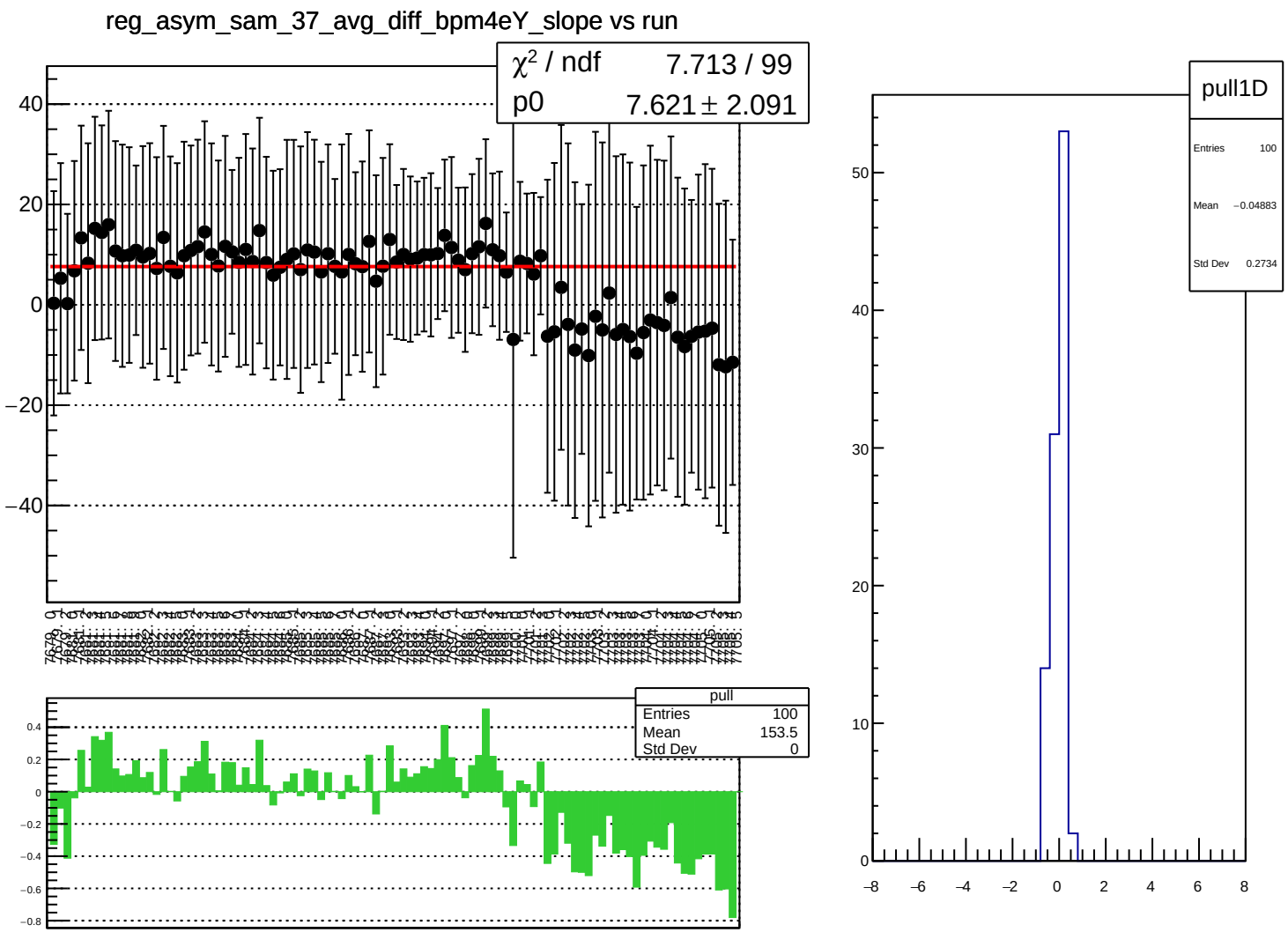

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 162.8 / 99
p0 −31.38 ± 0.998
pull
Entries 100
Mean 237.9
Std Dev 0
pull1D
Entries 100
Mean 0.1218
Std Dev 1.27

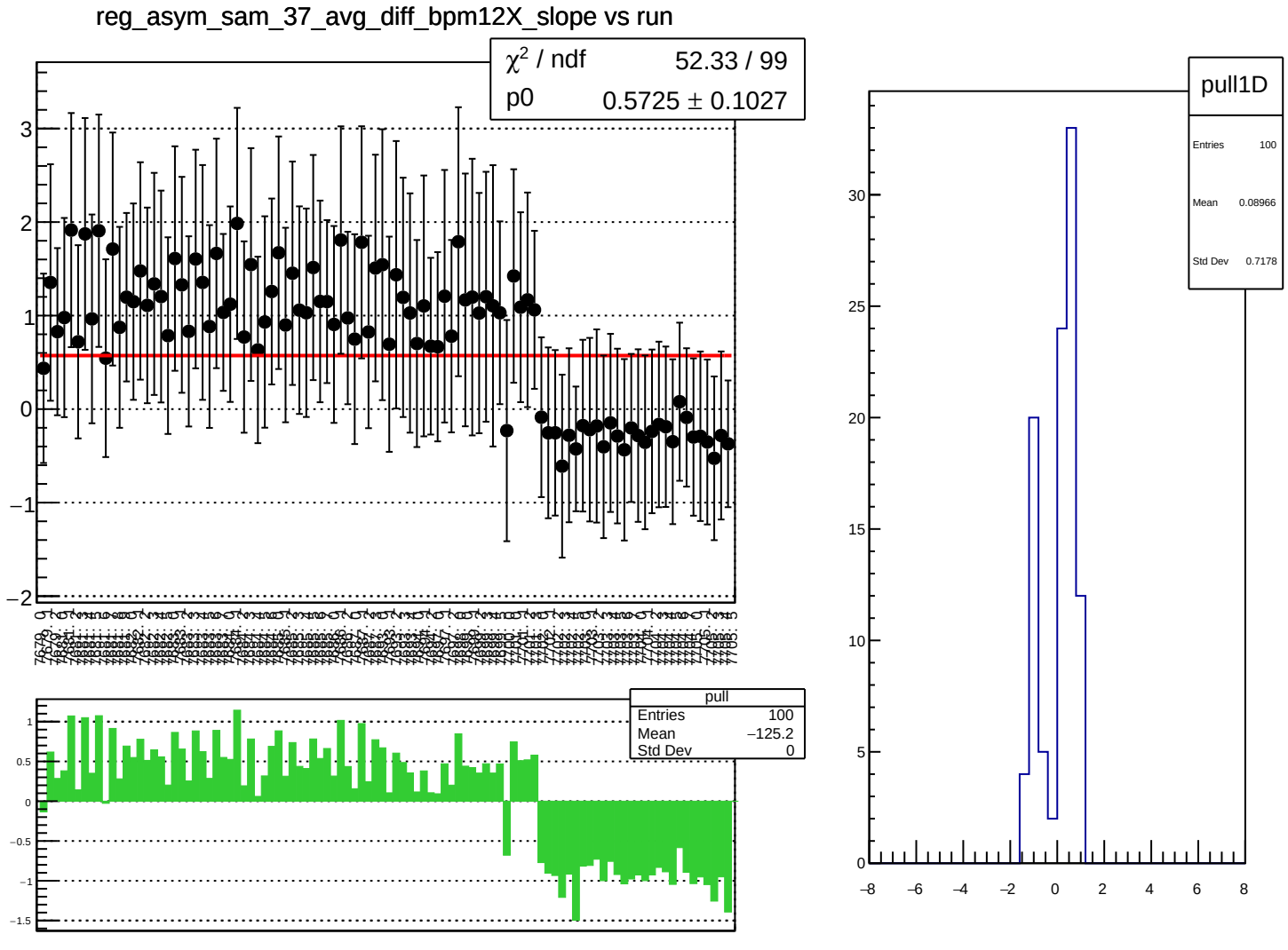

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 23.36 / 99
p0 0.08935 ± 0.04351
pull
Entries 100
Mean −67.22
Std Dev 0
pull1D
Entries 100
Mean −0.09419
Std Dev 0.474

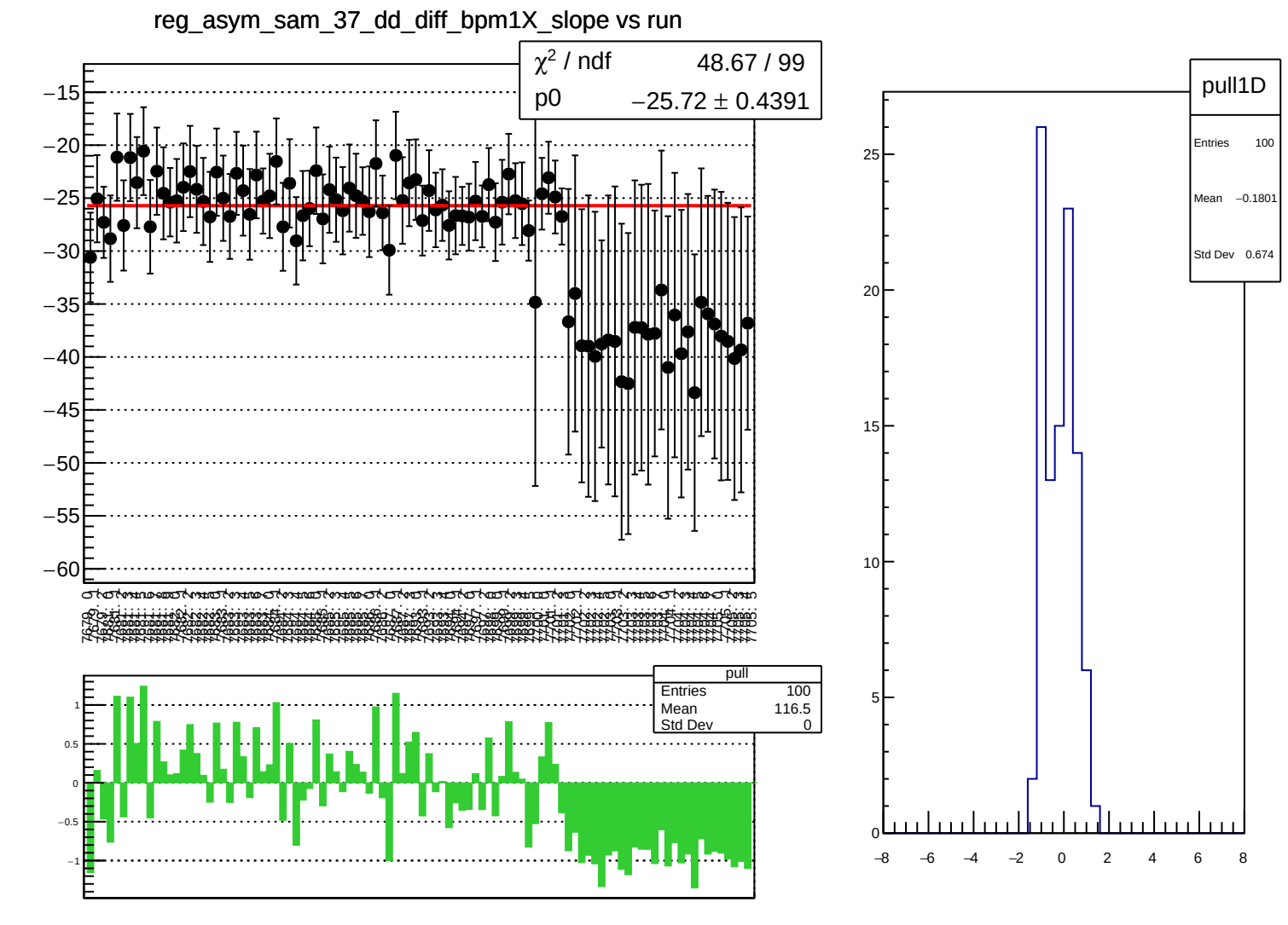

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 100.9 / 99
p0 12.51 ± 1.003
20
0
−20
−40
−60
pull
Entries 100
Mean 111.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 100
Mean −0.3332
Std Dev 0.9477
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

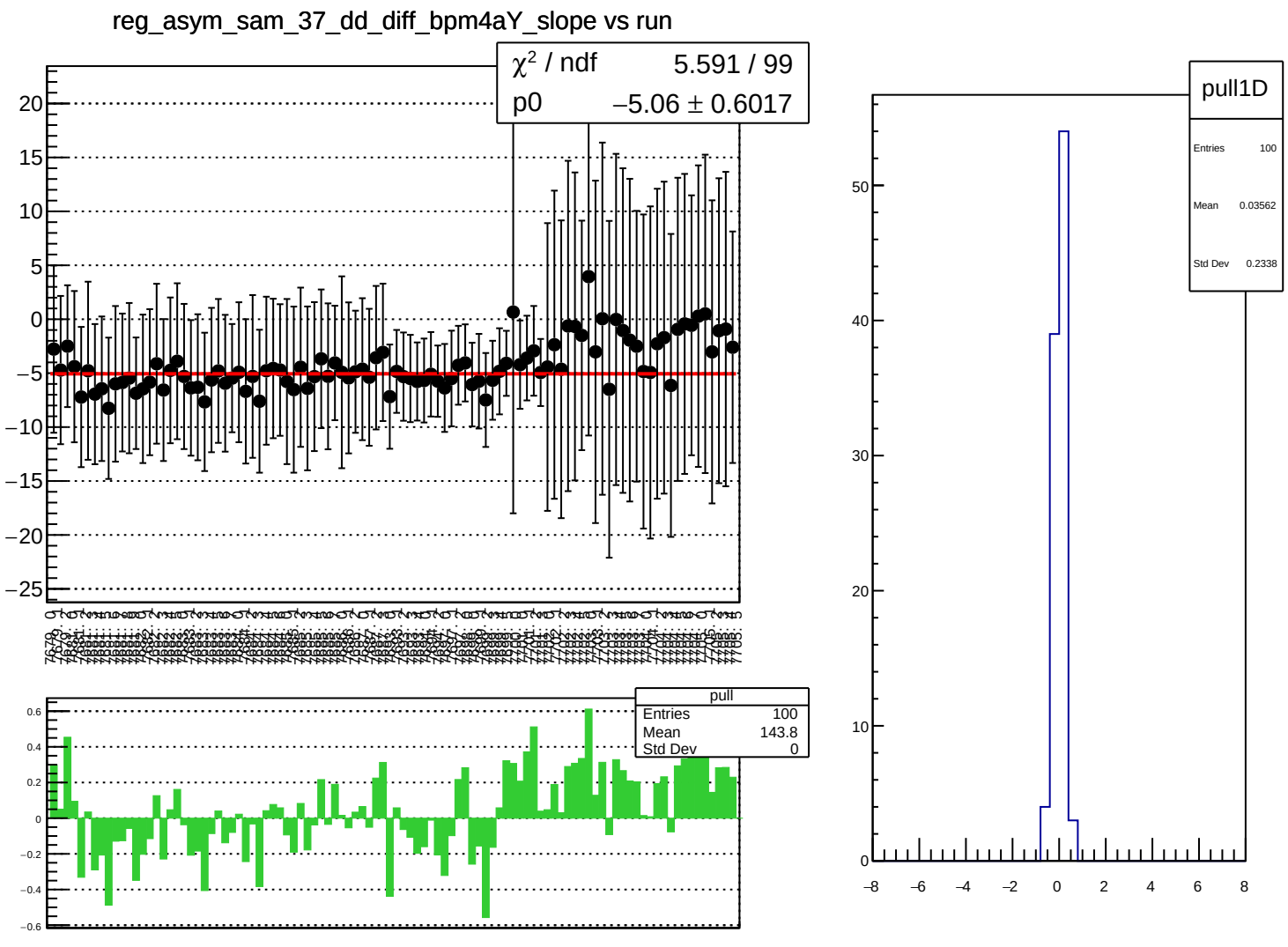

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.963 / 99
p0 1.783 ± 1.411
pull
Entries 100
Mean 124.5
Std Dev 0
pull1D
Entries 100
Mean 0.07098
Std Dev 0.2731

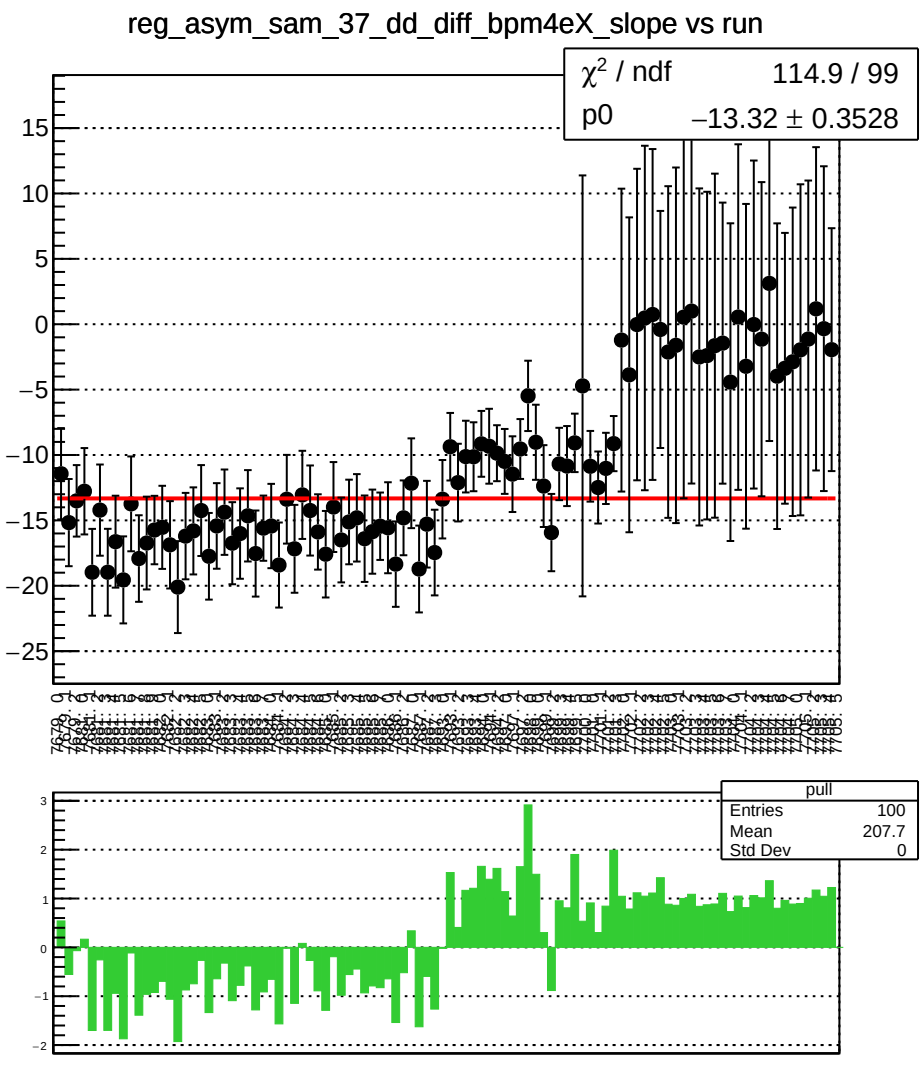

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 107.2 / 99
p0 −86.41 ± 0.8086
−20
−40
−60
−80
−100
pull
Entries 100
Mean 114.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 100
Mean 0.3542
Std Dev 0.9728
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

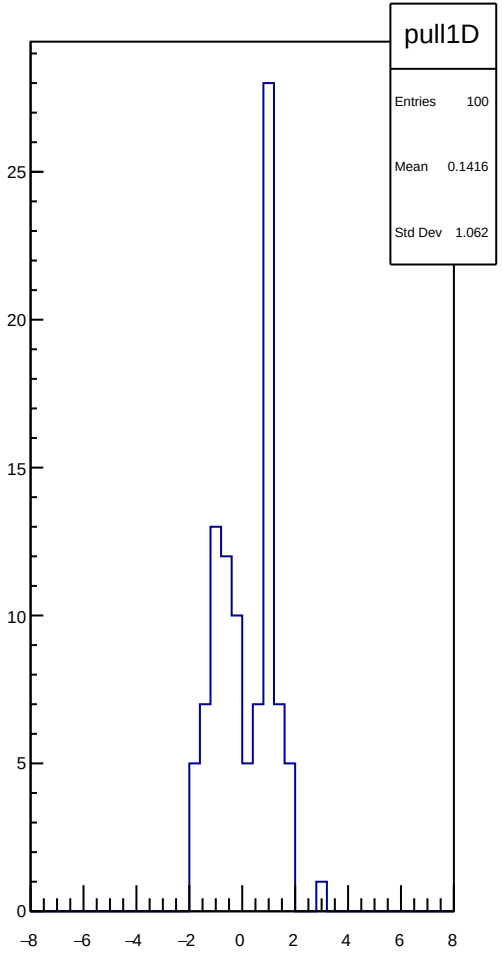

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.713 / 99
p0 7.621 ± 2.091
pull
Entries 100
Mean 153.5
Std Dev 0
pull1D
Entries 100
Mean −0.04883
Std Dev 0.2734

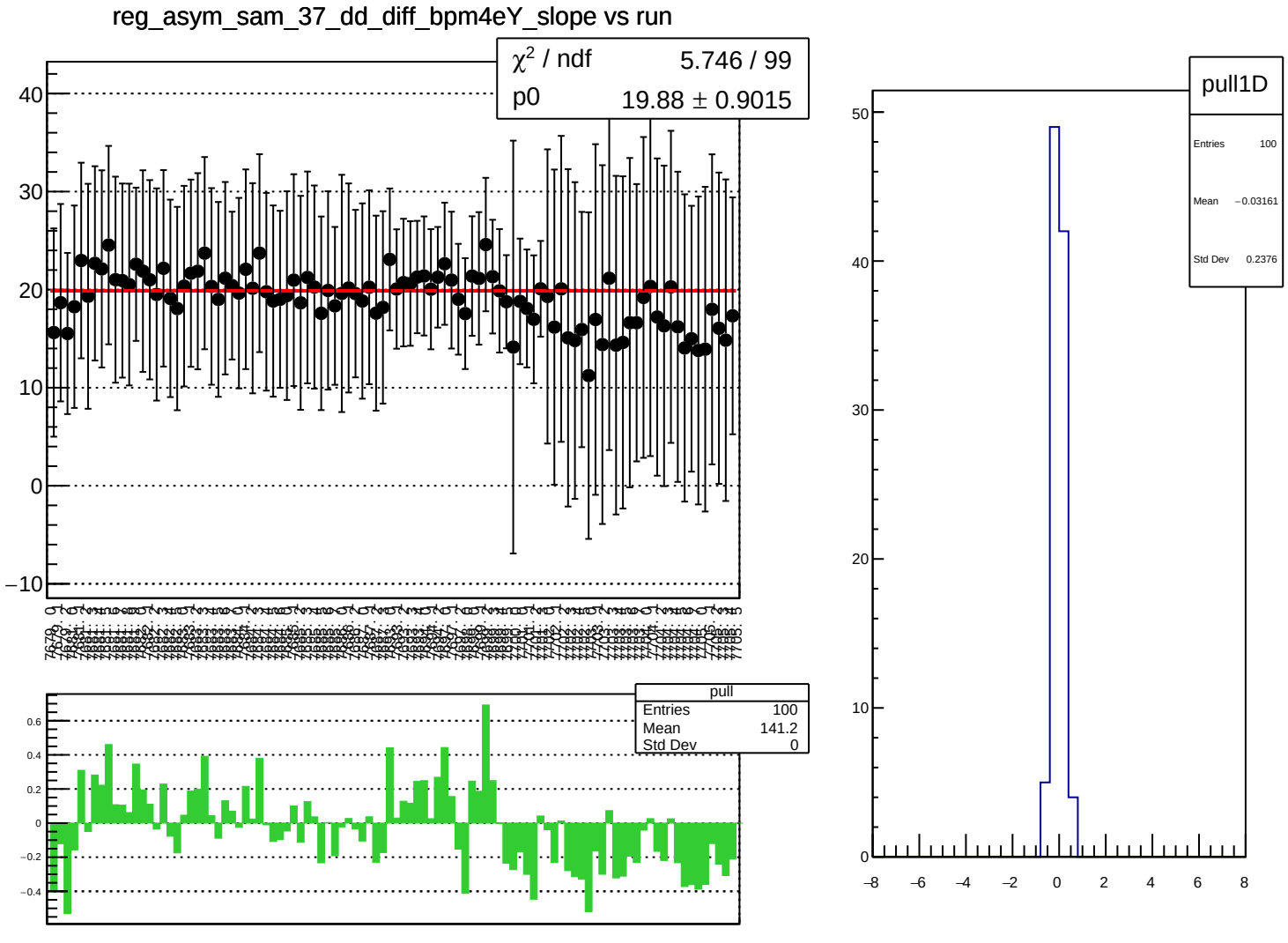

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 52.33 / 99
p0 0.5725 ± 0.1027
pull
Entries 100
Mean −125.2
Std Dev 0
pull1D
Entries 100
Mean 0.08966
Std Dev 0.7178

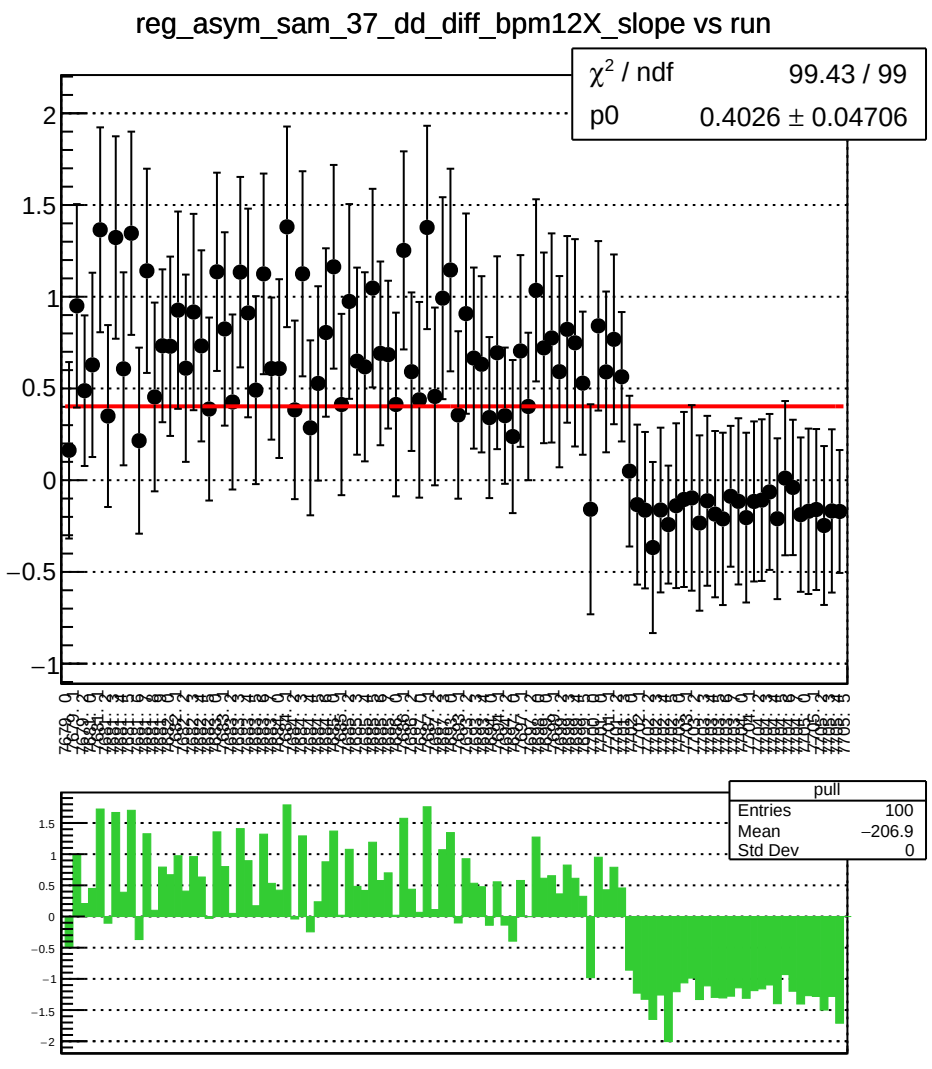

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 48.67 / 99
p0 −25.72 ± 0.4391
pull
Entries 100
Mean 116.5
Std Dev 0
pull1D
Entries 100
Mean −0.1801
Std Dev 0.674

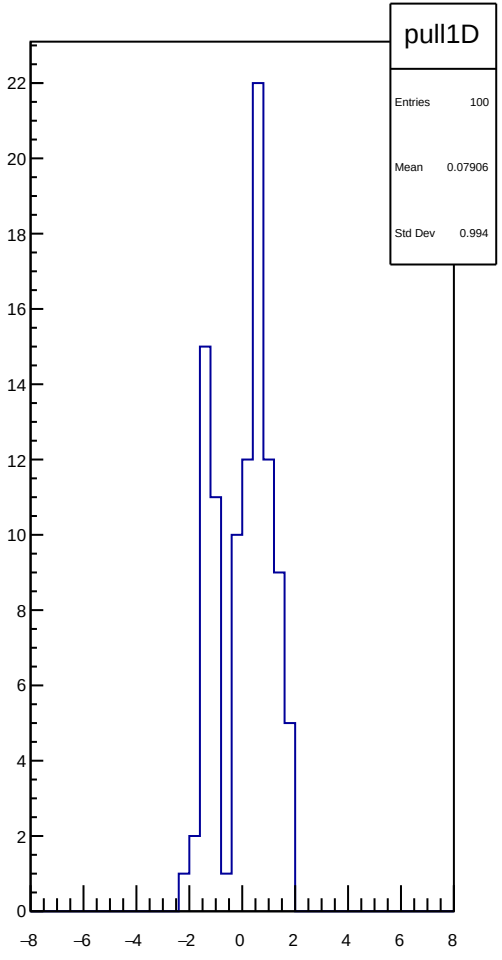

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.591 / 99
p0 −5.06 ± 0.6017
pull
Entries 100
Mean 143.8
Std Dev 0
pull1D
Entries 100
Mean 0.03562
Std Dev 0.2338

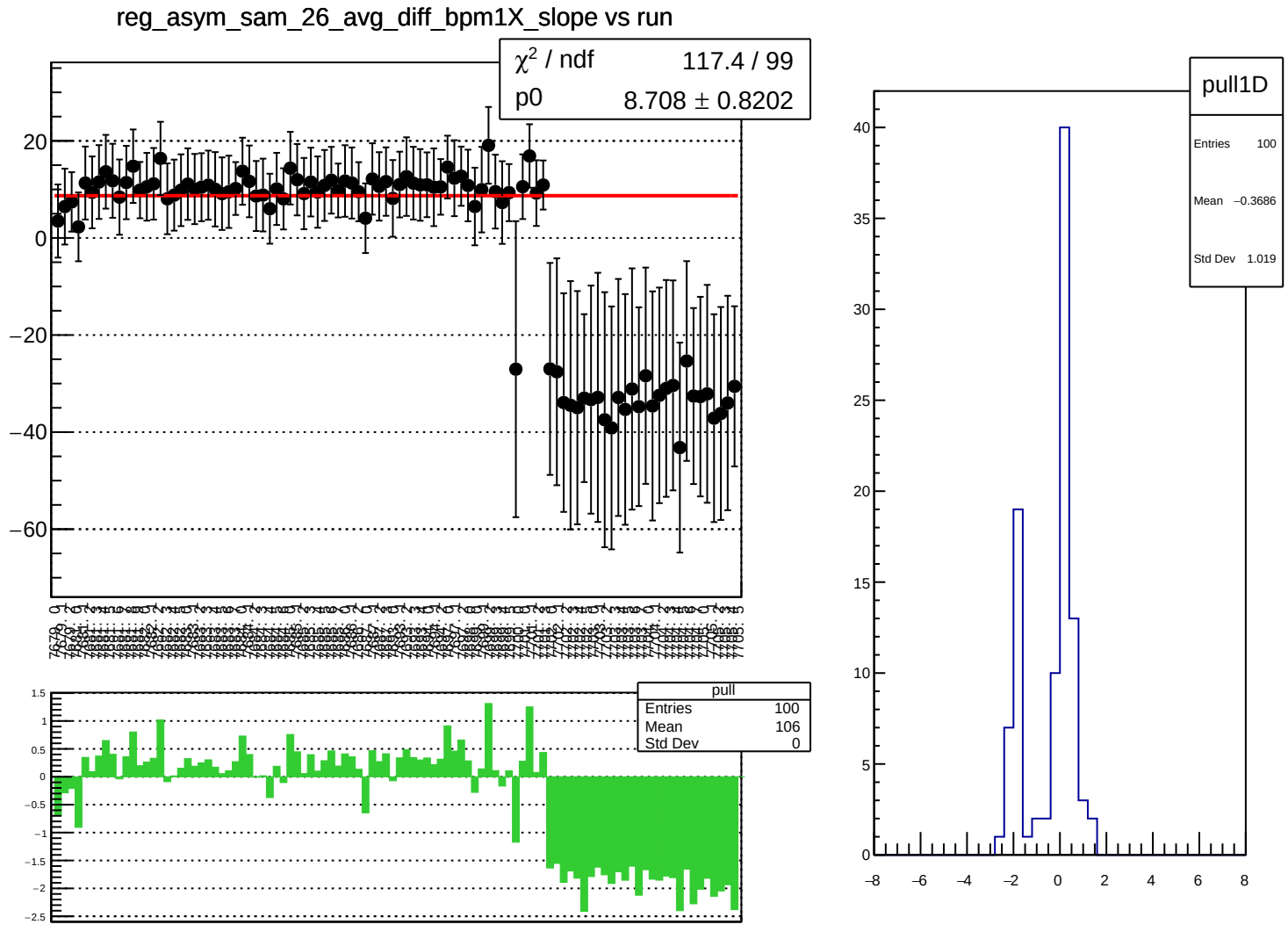

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 114.9 / 99
p0 −13.32 ± 0.3528
pull
Entries 100
Mean 207.7
Std Dev 0

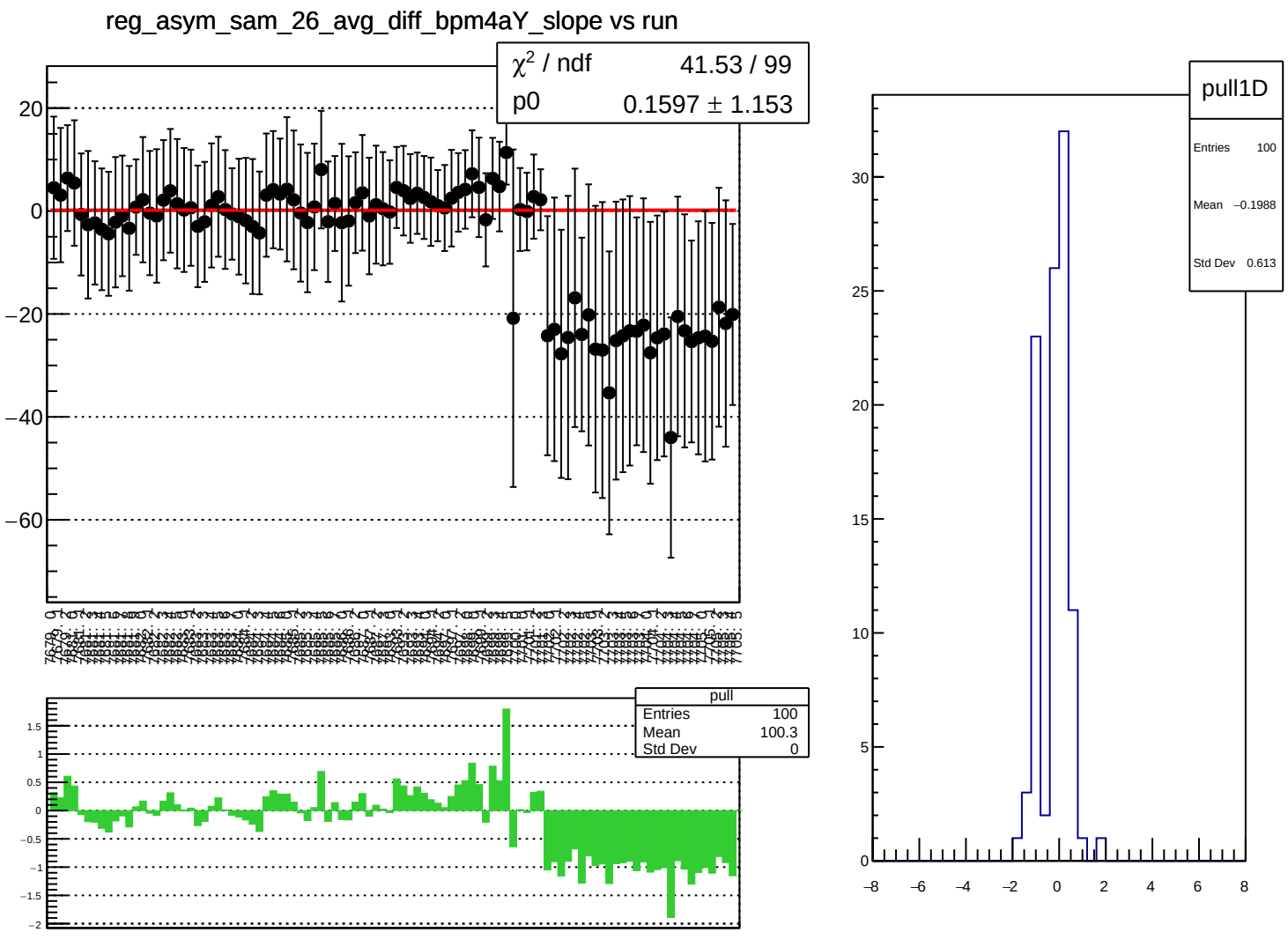

pull1D
Entries 100
Mean 0.1416
Std Dev 1.062

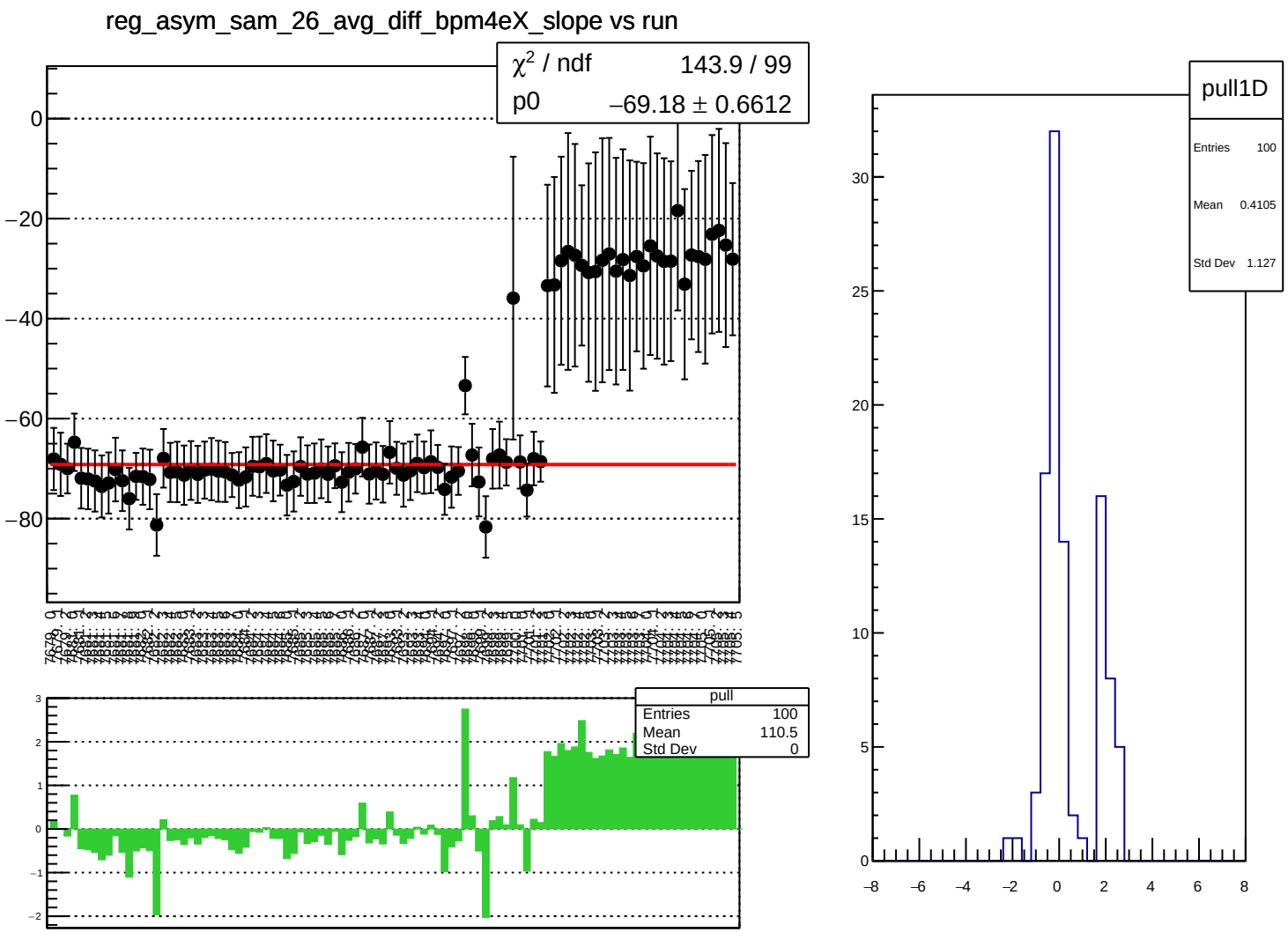

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.746 / 99
p0 19.88 ± 0.9015
pull
Entries 100
Mean 141.2
Std Dev 0
pull1D
Entries 100
Mean −0.03161
Std Dev 0.2376

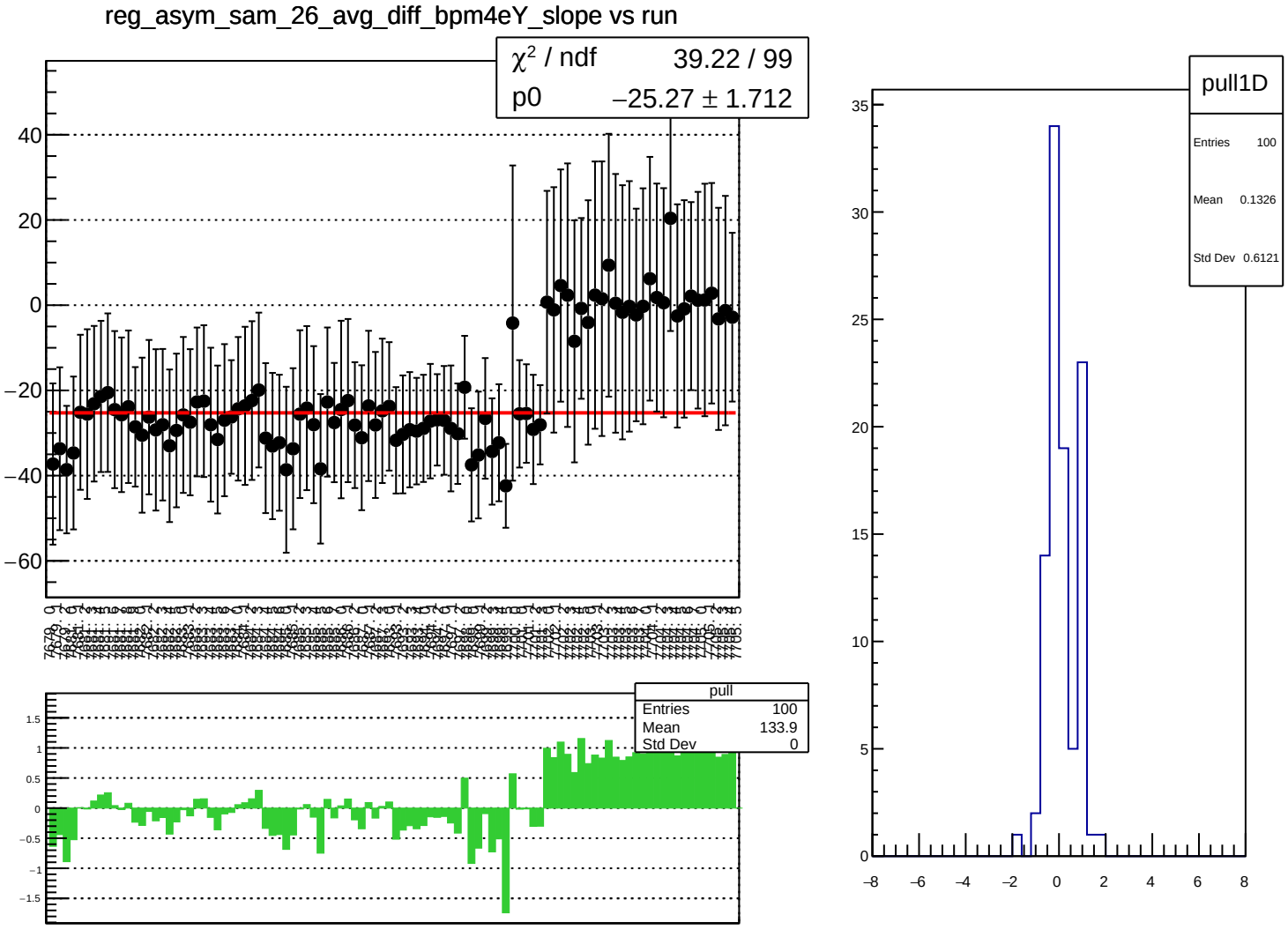

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 99.43 / 99
p0 0.4026 ± 0.04706
pull
Entries 100
Mean −206.9
Std Dev 0

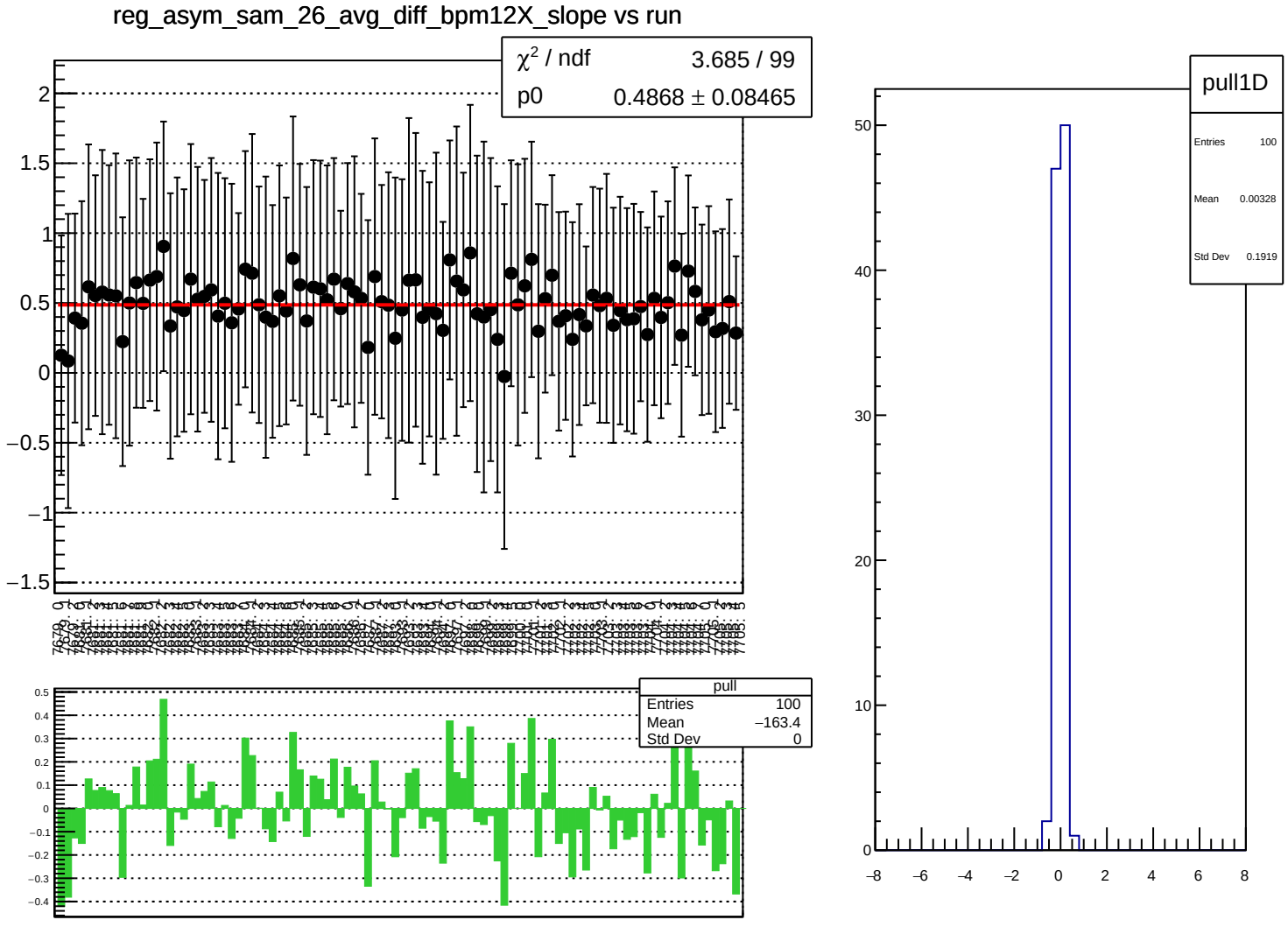

pull1D
Entries 100
Mean 0.07906
Std Dev 0.994

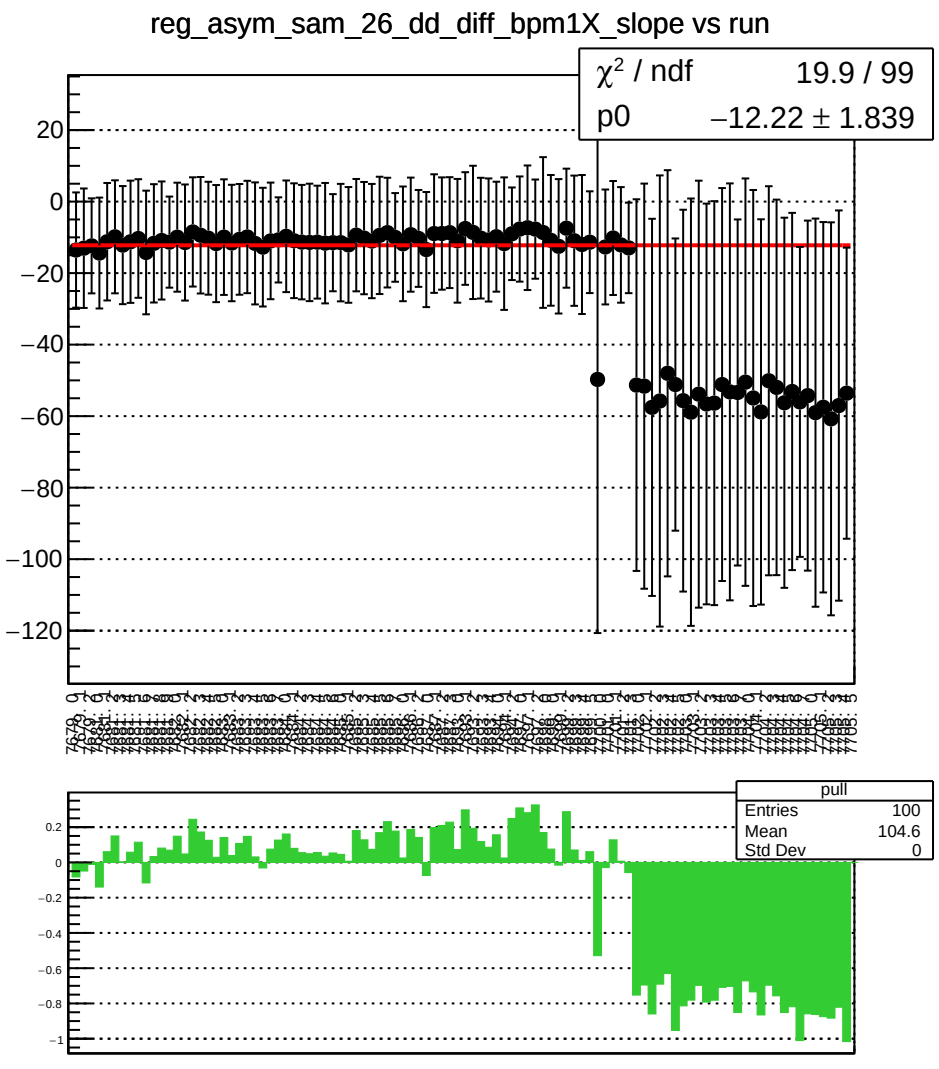

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 117.4 / 99
p0 8.708 ± 0.8202
20
0
−20
−40
−60
pull
Entries 100
Mean 106
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 100
Mean −0.3686
Std Dev 1.019
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

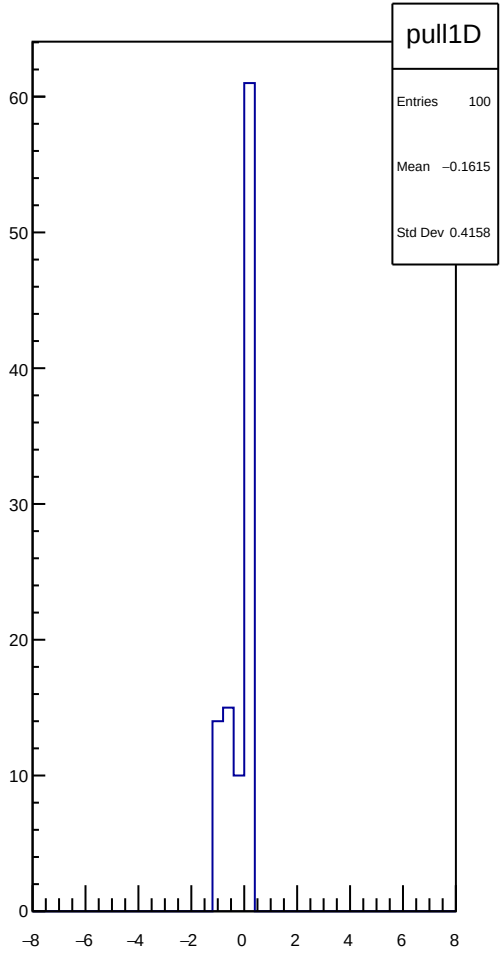

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 41.53 / 99
p0 0.1597 ± 1.153
20
0
−20
−40
−60
pull
Entries 100
Mean 100.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 100
Mean −0.1988
Std Dev 0.613
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

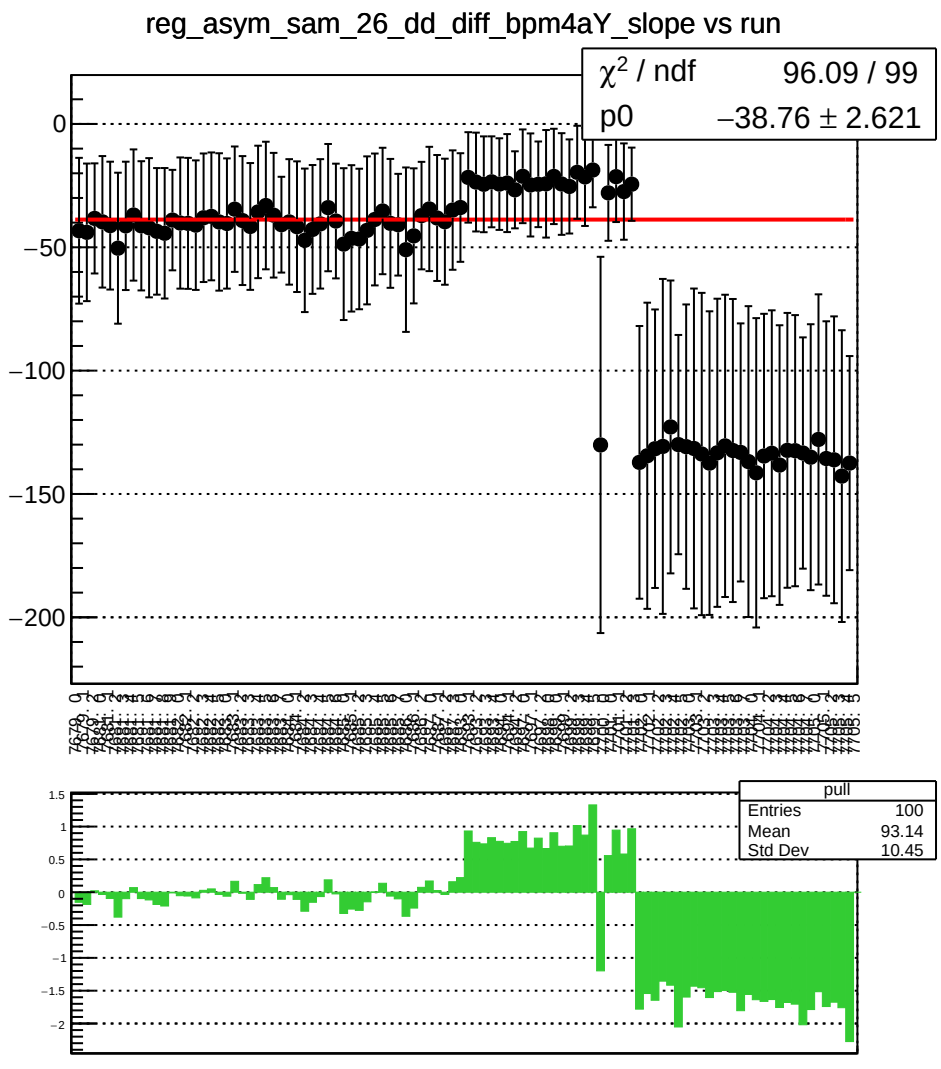

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 143.9 / 99
p0 −69.18 ± 0.6612
0
−20
−40
−60
−80
pull
Entries 100
Mean 110.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.4105
Std Dev 1.127
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

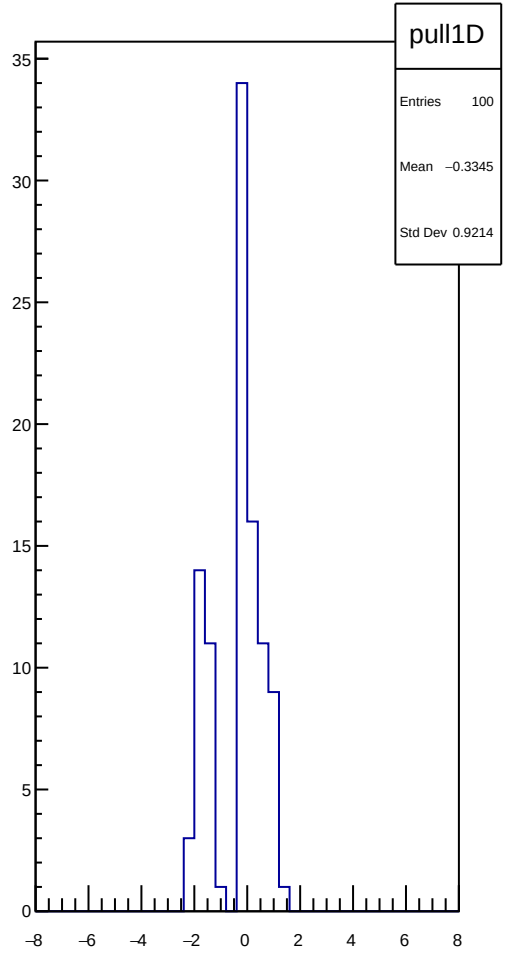

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 39.22 / 99
p0 −25.27 ± 1.712
pull
Entries 100
Mean 133.9
Std Dev 0
pull1D
Entries 100
Mean 0.1326
Std Dev 0.6121

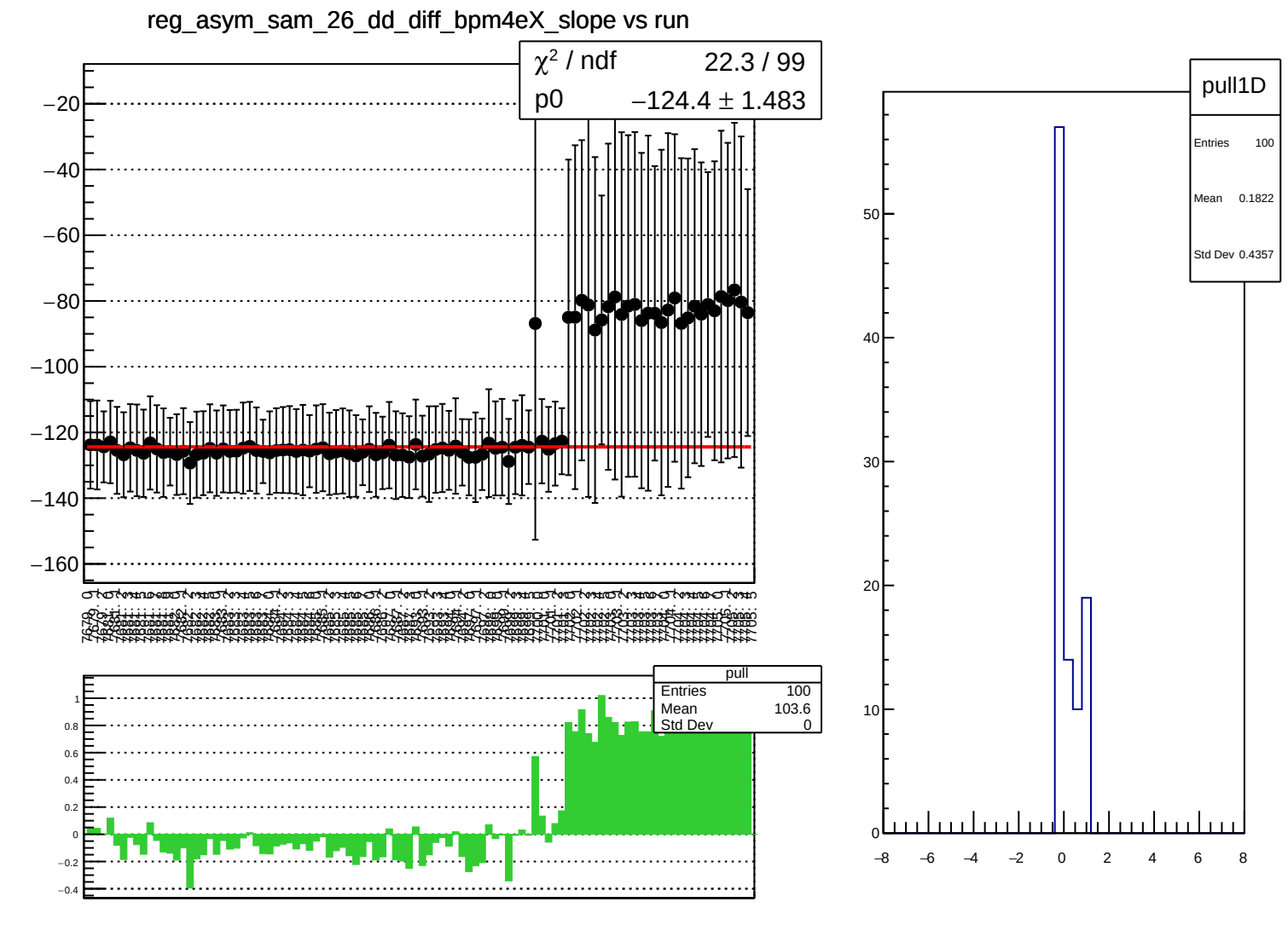

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 3.685 / 99
p0 0.4868 ± 0.08465
pull
Entries 100
Mean −163.4
Std Dev 0
pull1D
Entries 100
Mean 0.00328
Std Dev 0.1919

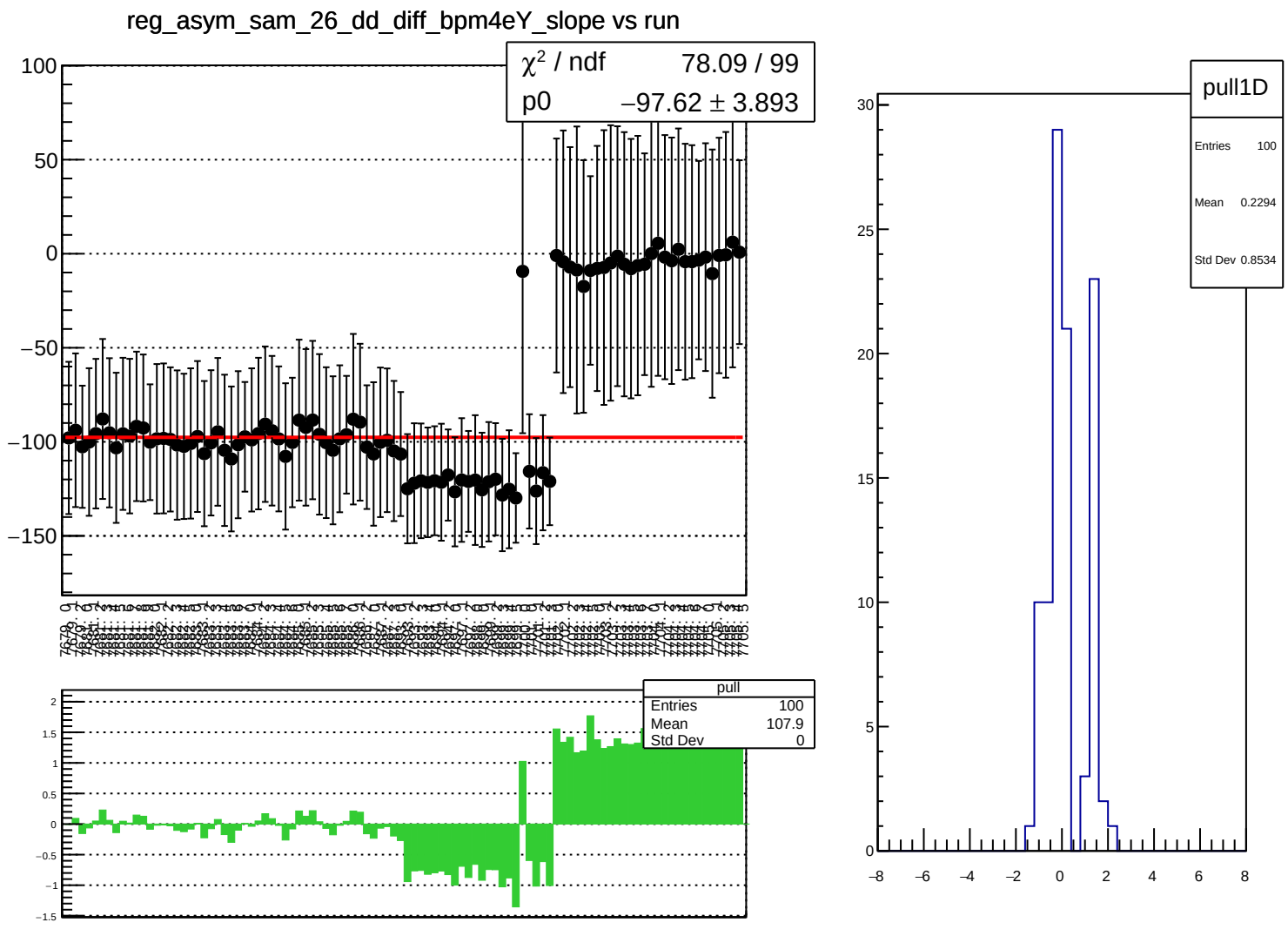

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 19.9 / 99
p0 −12.22 ± 1.839
20
0
−20
−40
−60
−80
−100
−120
pull
Entries 100
Mean 104.6
Std Dev 0
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

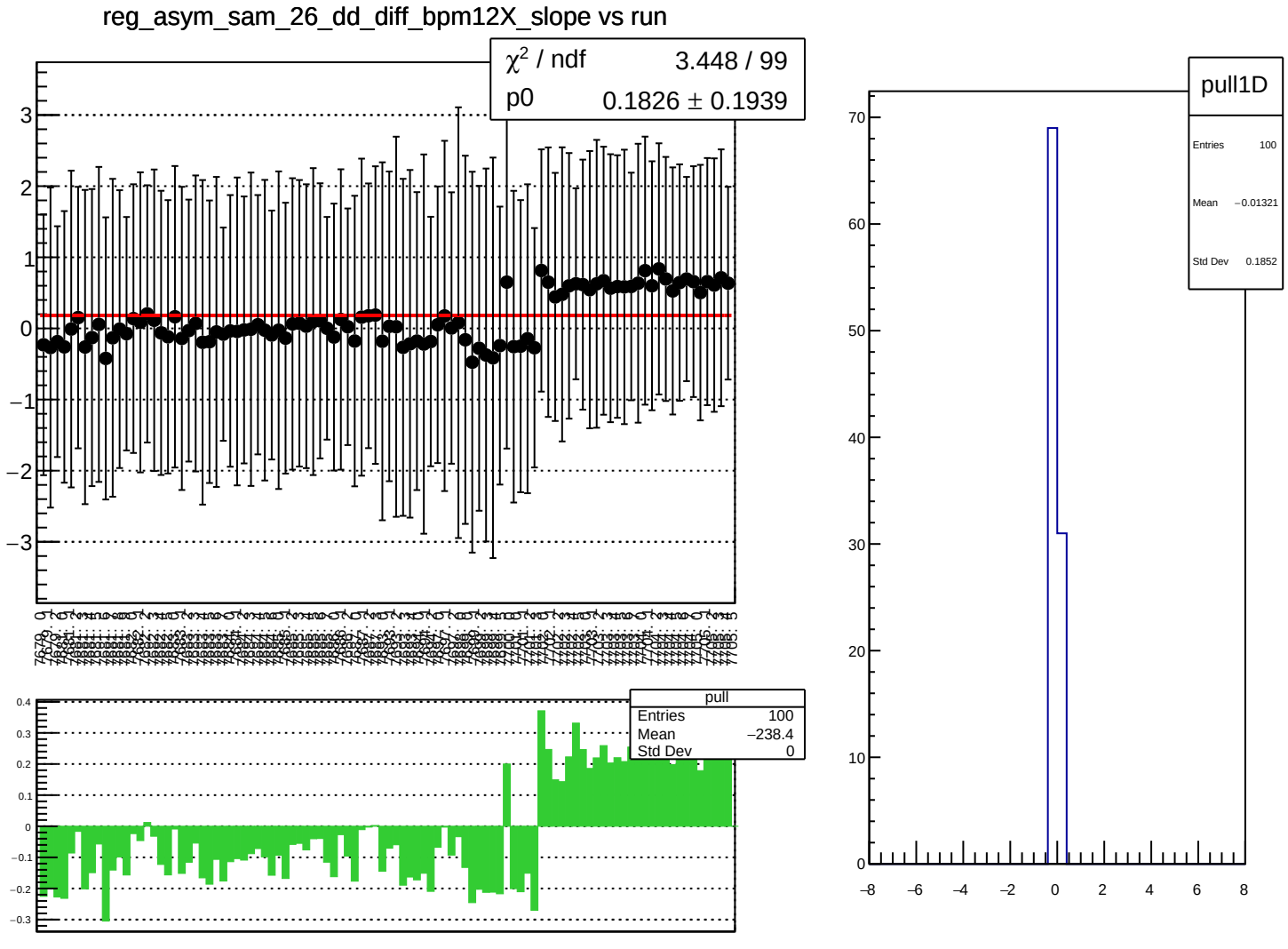

pull1D
Entries 100
Mean −0.1615
Std Dev 0.4158
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

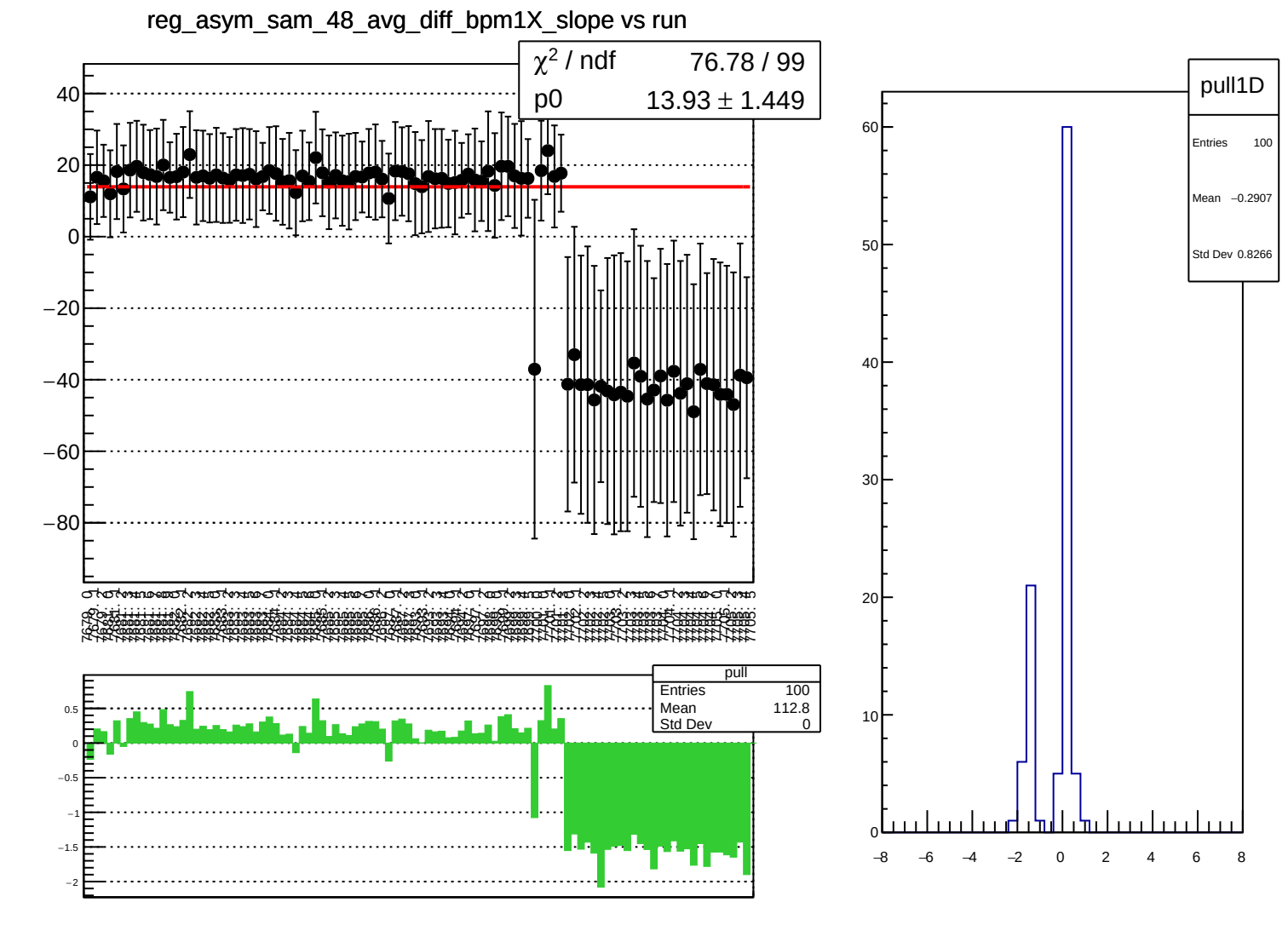

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 96.09 / 99
p0 −38.76 ± 2.621
0
−50
−100
−150
−200
pull
Entries 100
Mean 93.14
Std Dev 10.45
1.5
1
0.5
0
−0.5
−1
−1.5
−2

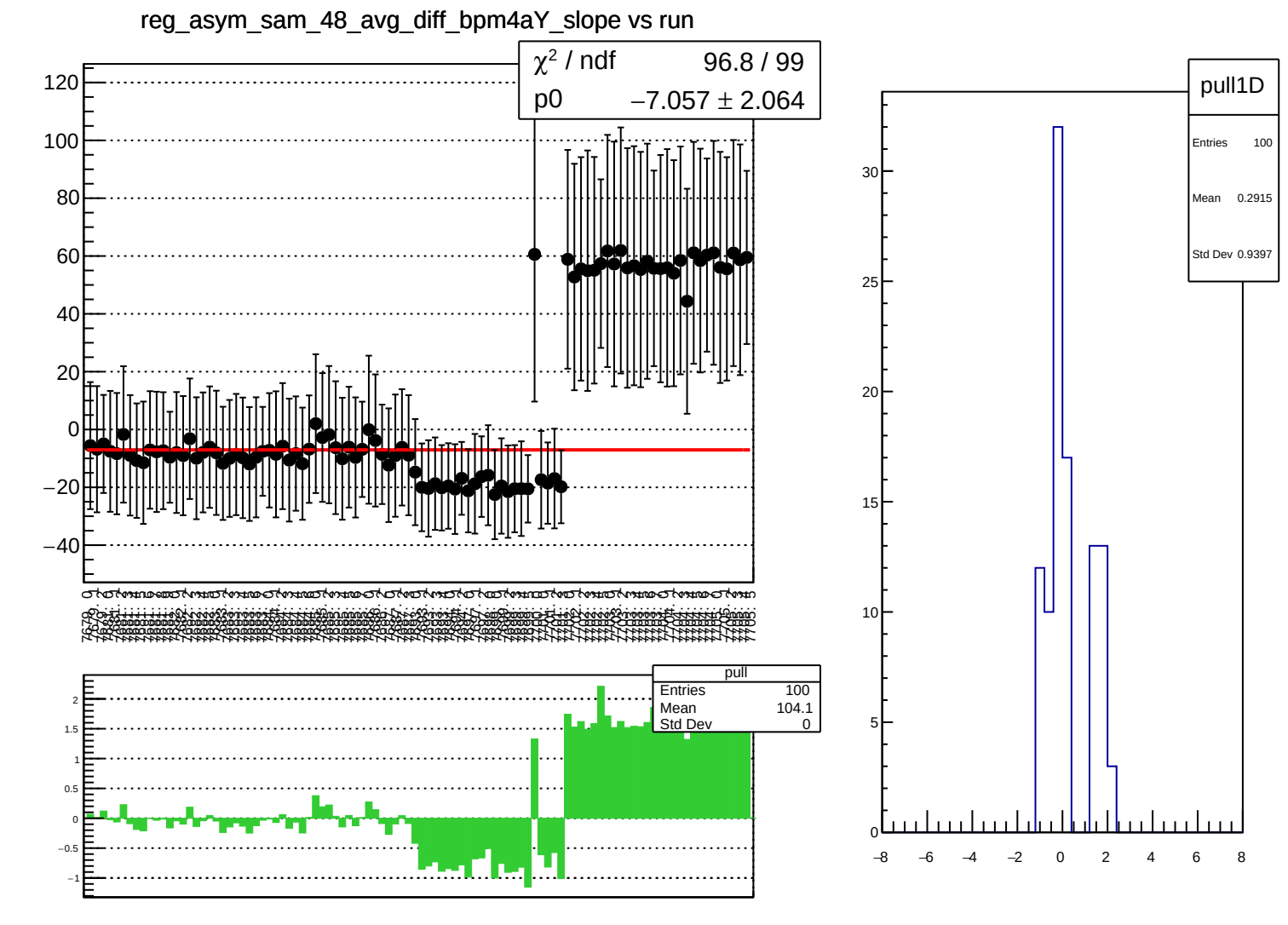

pull1D
Entries 100
Mean −0.3345
Std Dev 0.9214
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

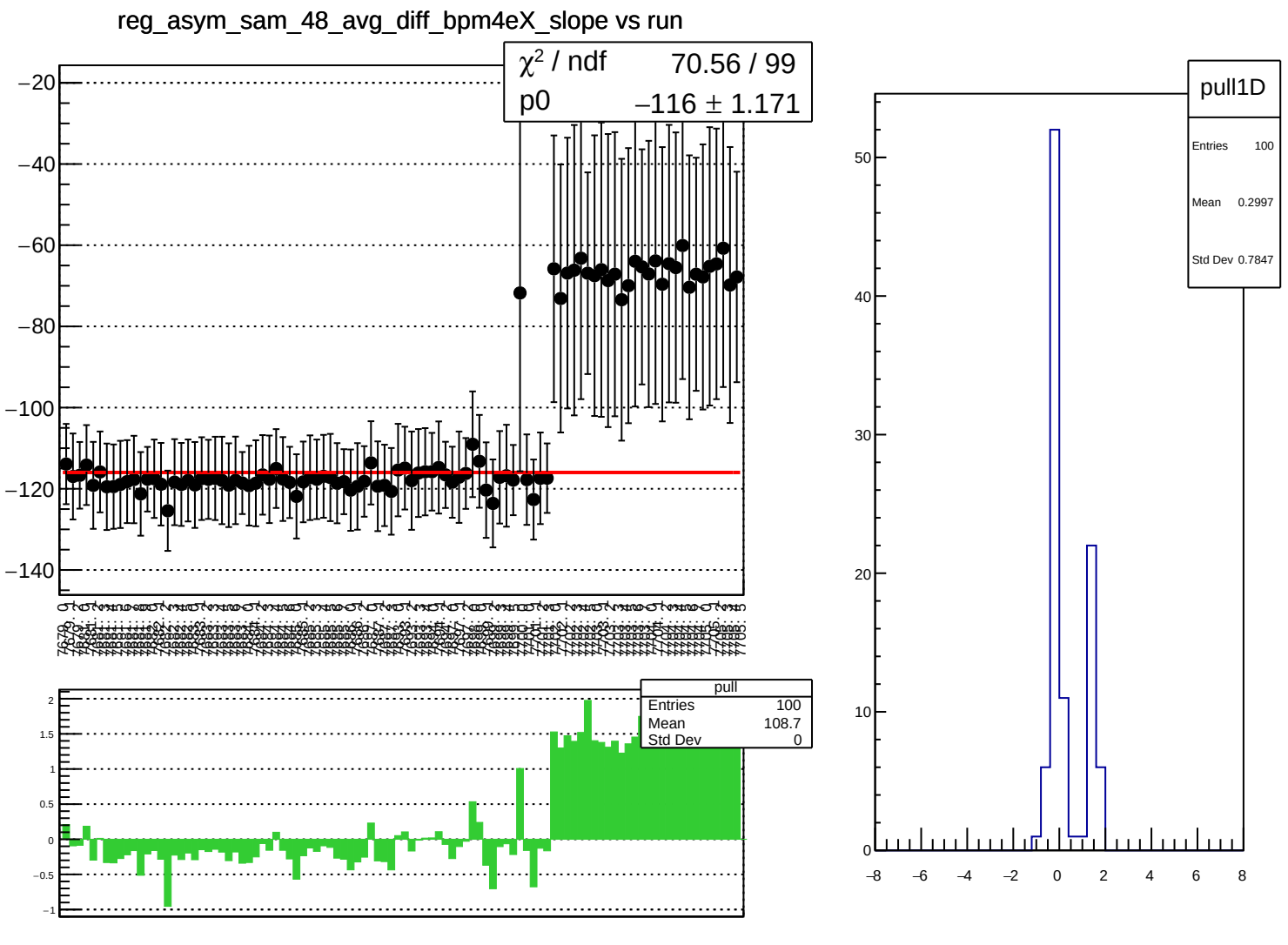

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.3 / 99
p0 −124.4 ± 1.483
pull
Entries 100
Mean 103.6
Std Dev 0
pull1D
Entries 100
Mean 0.1822
Std Dev 0.4357

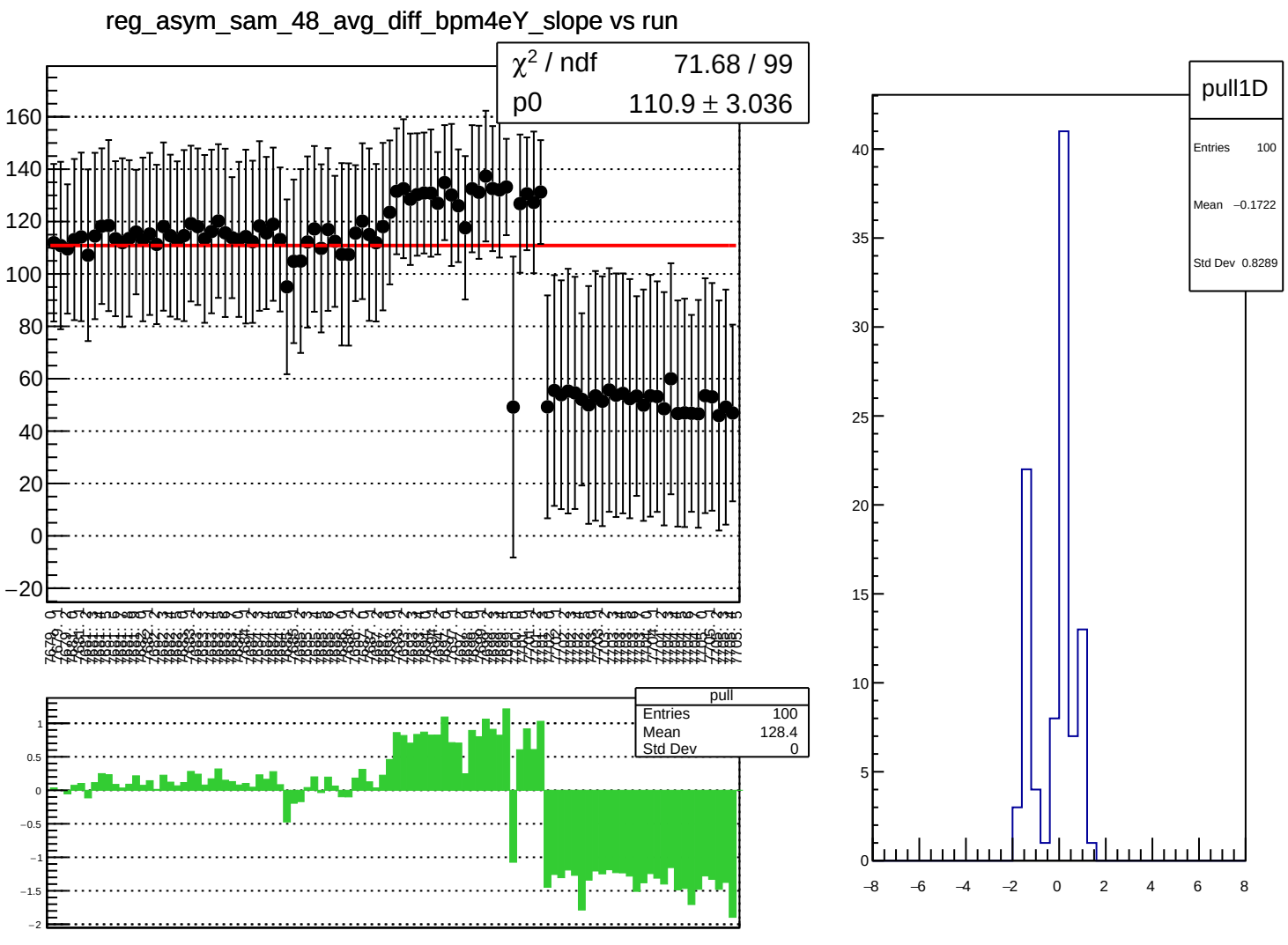

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 78.09 / 99
p0 −97.62 ± 3.893
100
50
0
−50
−100
−150
pull
Entries 100
Mean 107.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 100
Mean 0.2294
Std Dev 0.8534
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

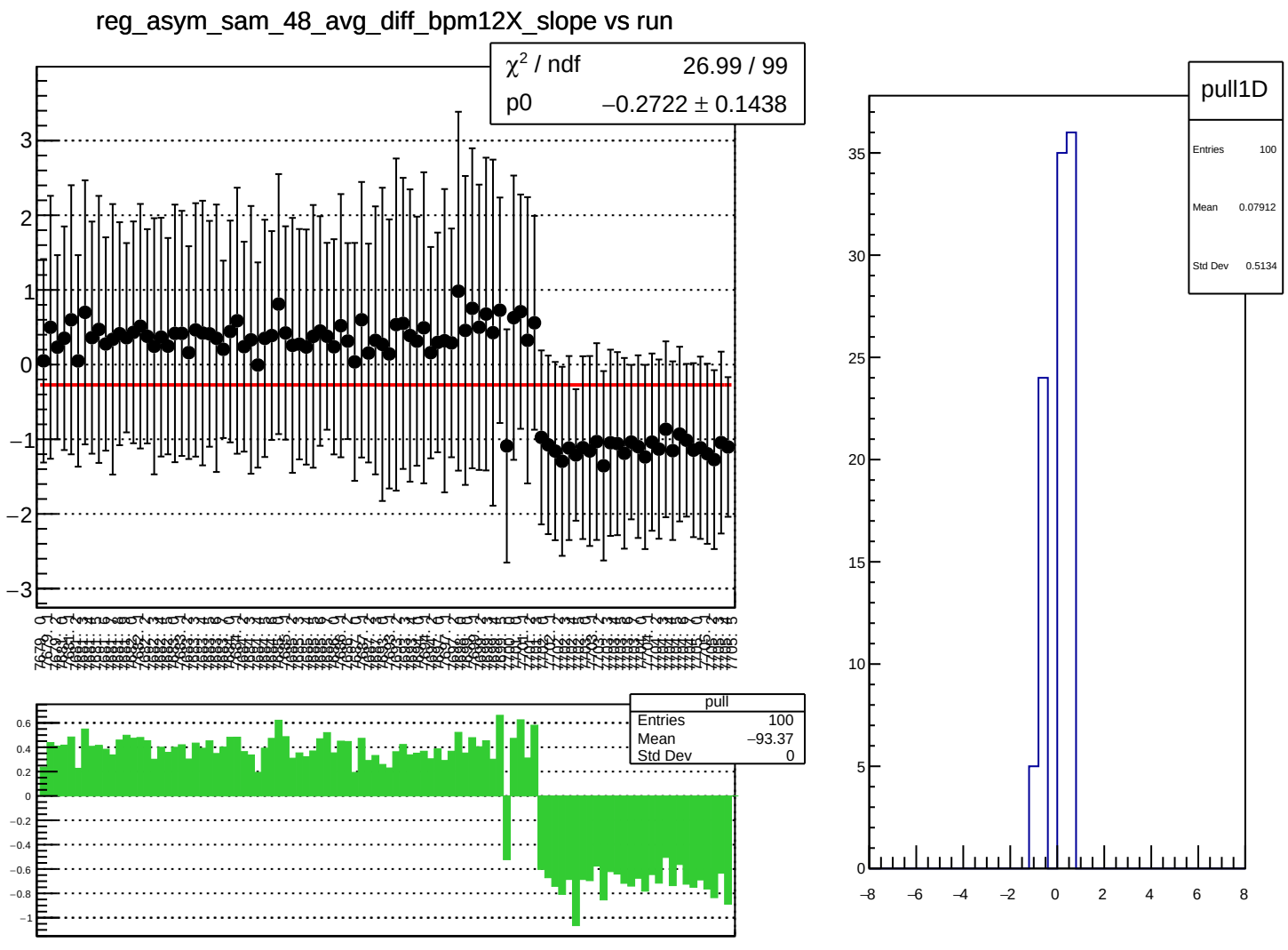

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 3.448 / 99
p0 0.1826 ± 0.1939
pull
Entries 100
Mean −238.4
Std Dev 0
pull1D
Entries 100
Mean −0.01321
Std Dev 0.1852

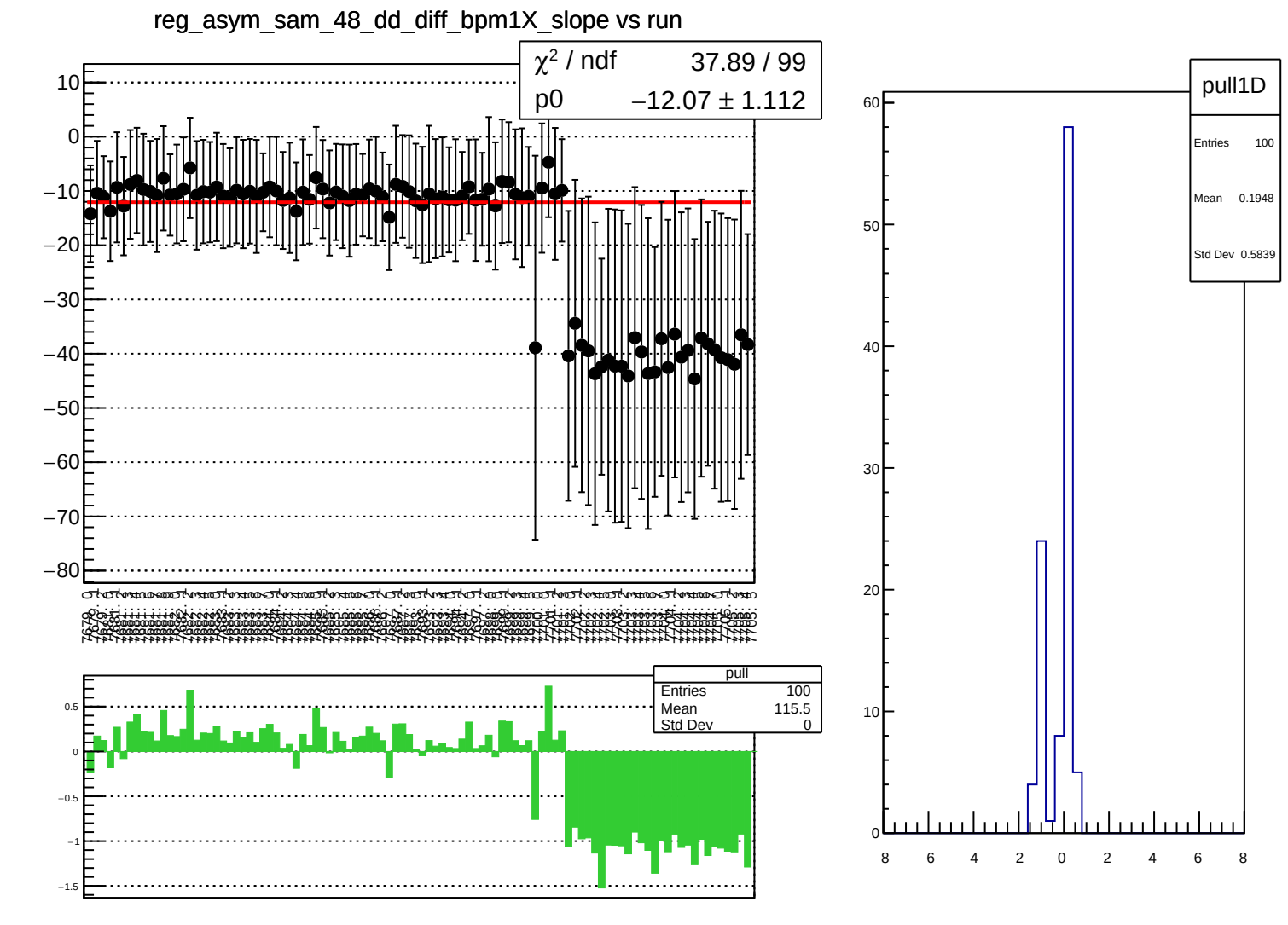

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 76.78 / 99
p0 13.93 ± 1.449
pull
Entries 100
Mean 112.8
Std Dev 0
pull1D
Entries 100
Mean −0.2907
Std Dev 0.8266

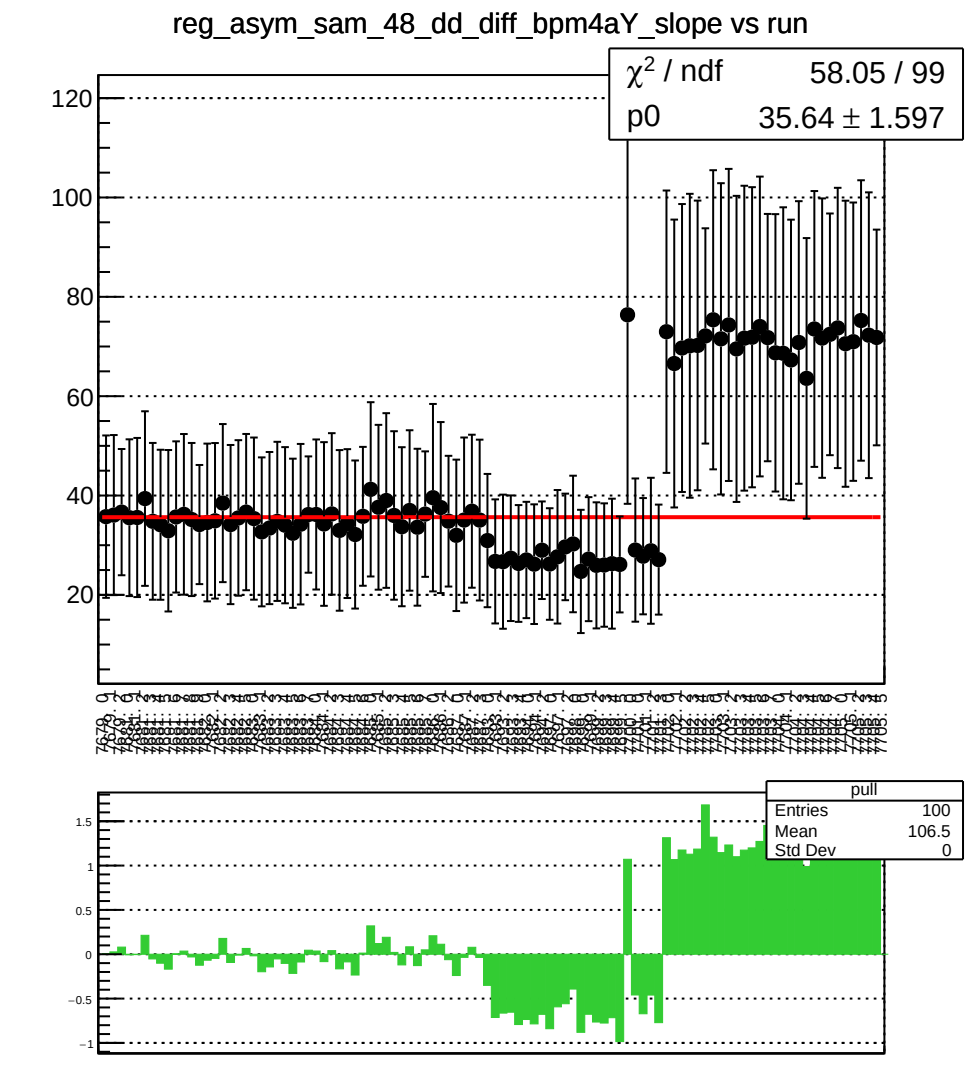

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 96.8 / 99
p0 −7.057 ± 2.064
pull
Entries 100
Mean 104.1
Std Dev 0
pull1D
Entries 100
Mean 0.2915
Std Dev 0.9397

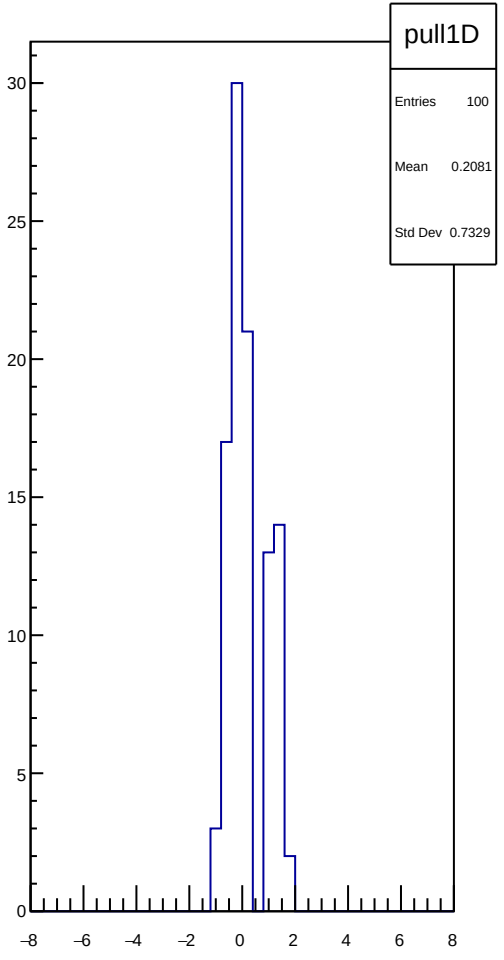

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 70.56 / 99
p0 −116 ± 1.171
pull
Entries 100
Mean 108.7
Std Dev 0
pull1D
Entries 100
Mean 0.2997
Std Dev 0.7847

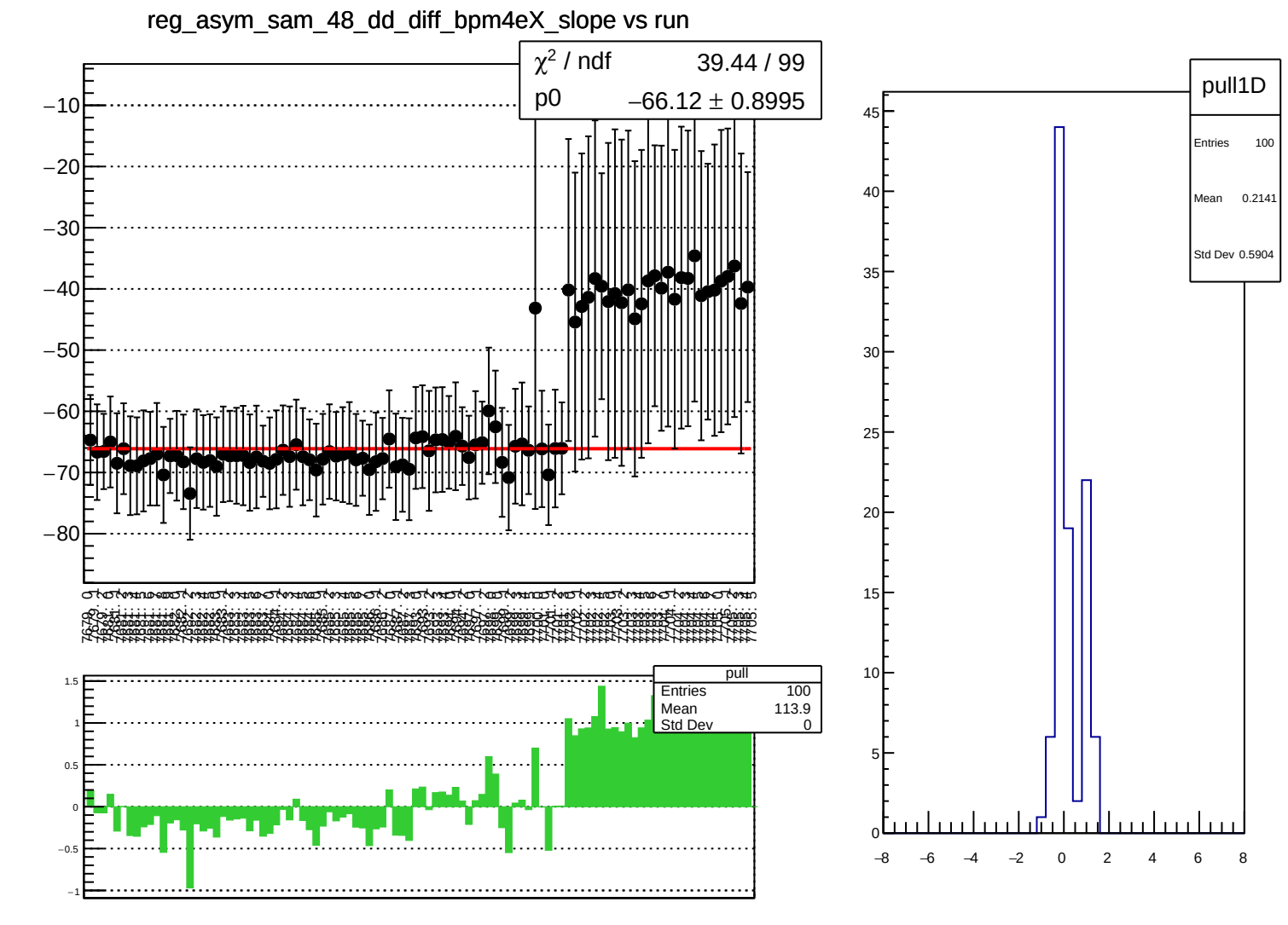

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 71.68 / 99
p0 110.9 ± 3.036
160
140
120
100
80
60
40
20
0
−20
pull
Entries 100
Mean 128.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 100
Mean −0.1722
Std Dev 0.8289
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

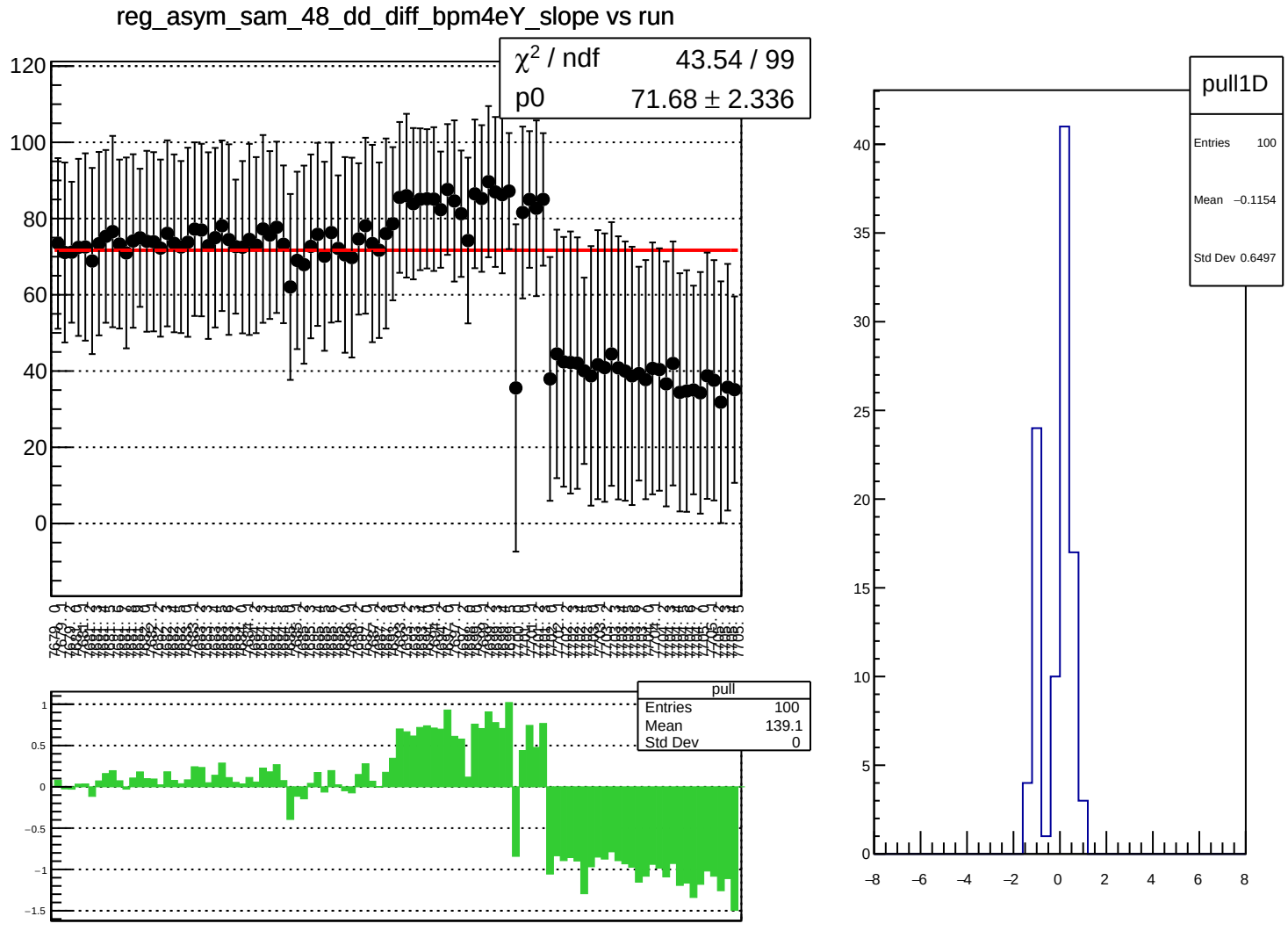

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 26.99 / 99
p0 −0.2722 ± 0.1438
pull
Entries 100
Mean −93.37
Std Dev 0
pull1D
Entries 100
Mean 0.07912
Std Dev 0.5134

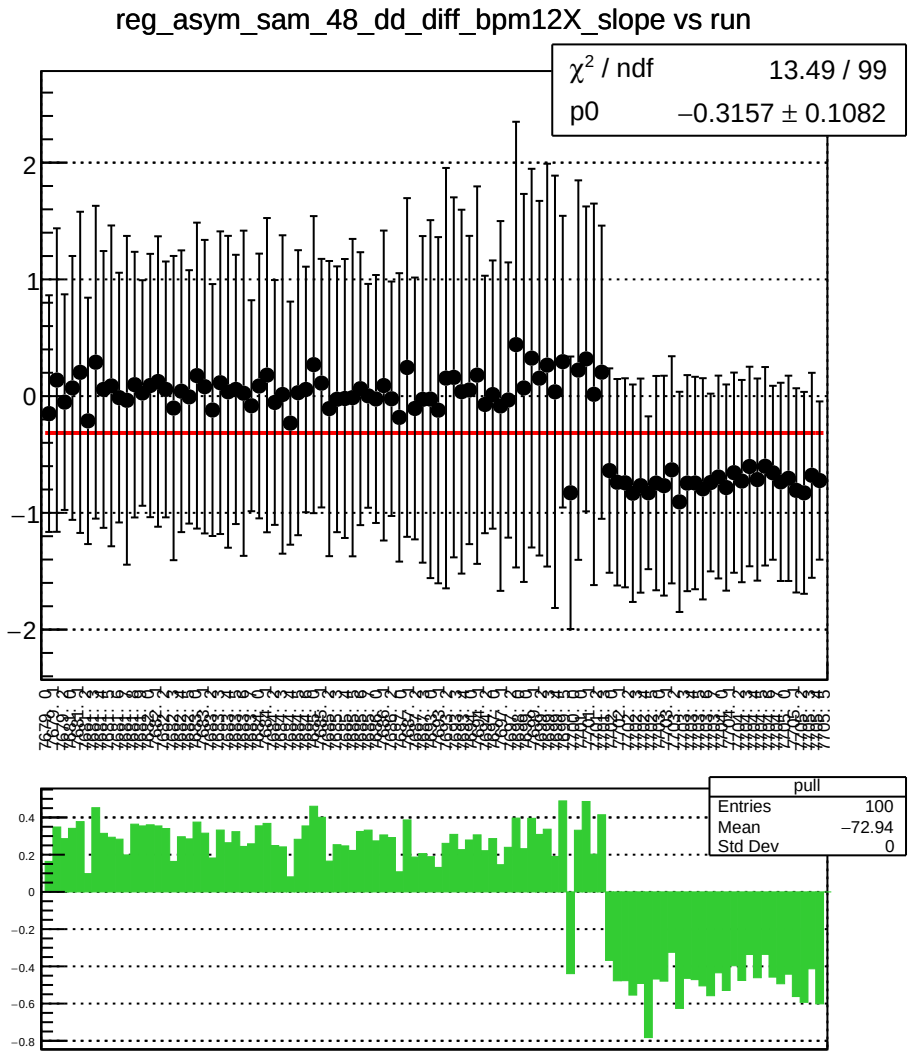

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 37.89 / 99
p0 −12.07 ± 1.112
pull
Entries 100
Mean 115.5
Std Dev 0
pull1D
Entries 100
Mean −0.1948
Std Dev 0.5839

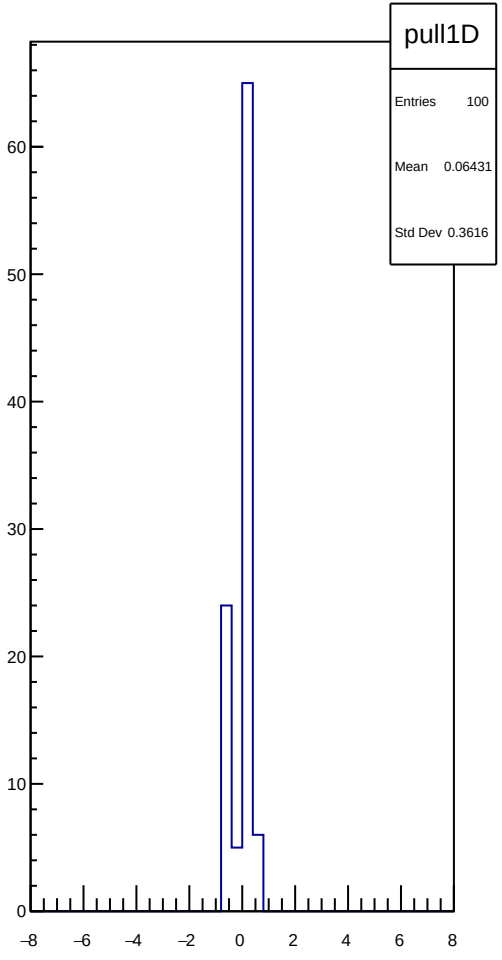

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 58.05 / 99
p0 35.64 ± 1.597
120
100
80
60
40
20
pull
Entries 100
Mean 106.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1

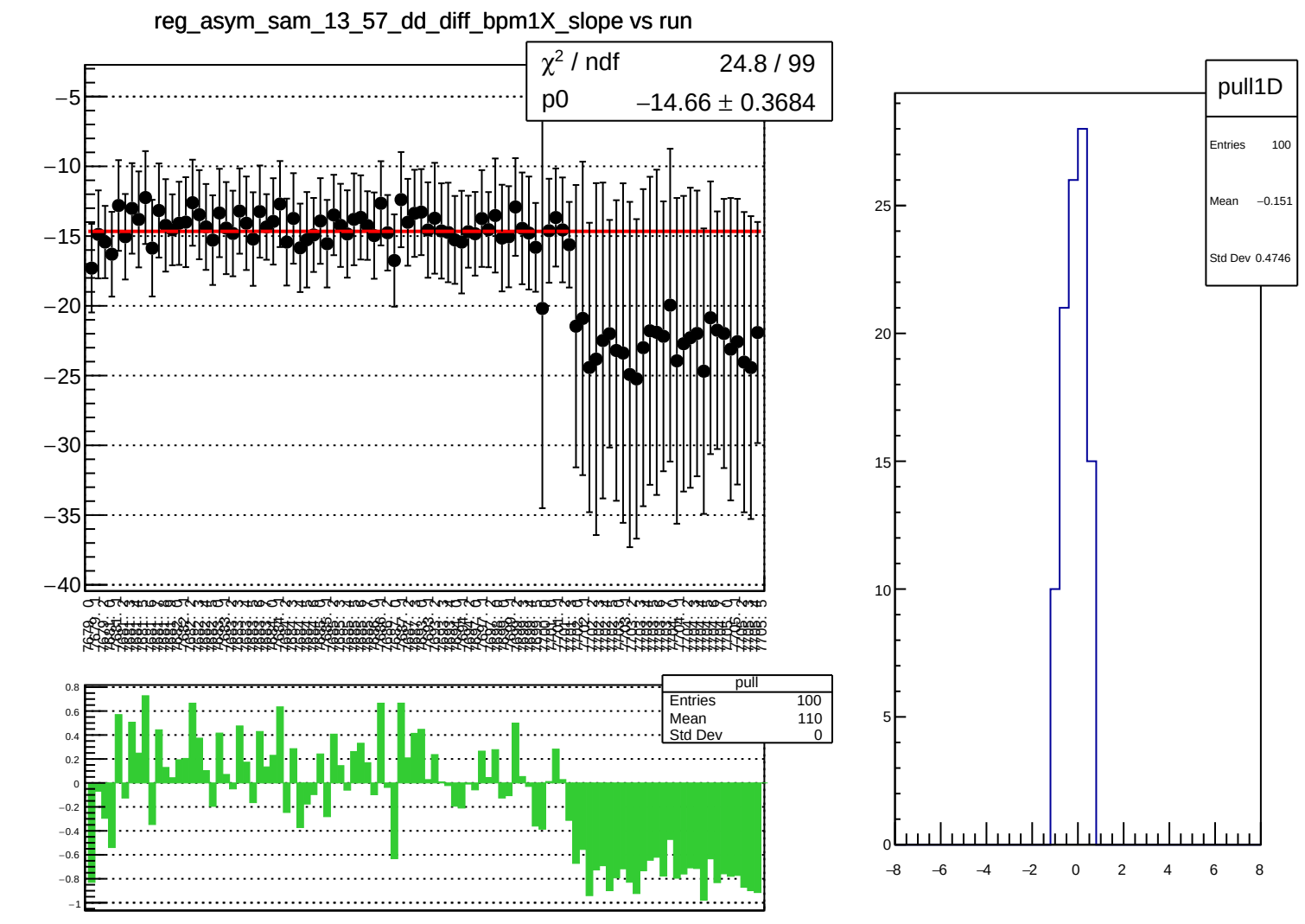

pull1D
Entries 100
Mean 0.2081
Std Dev 0.7329
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

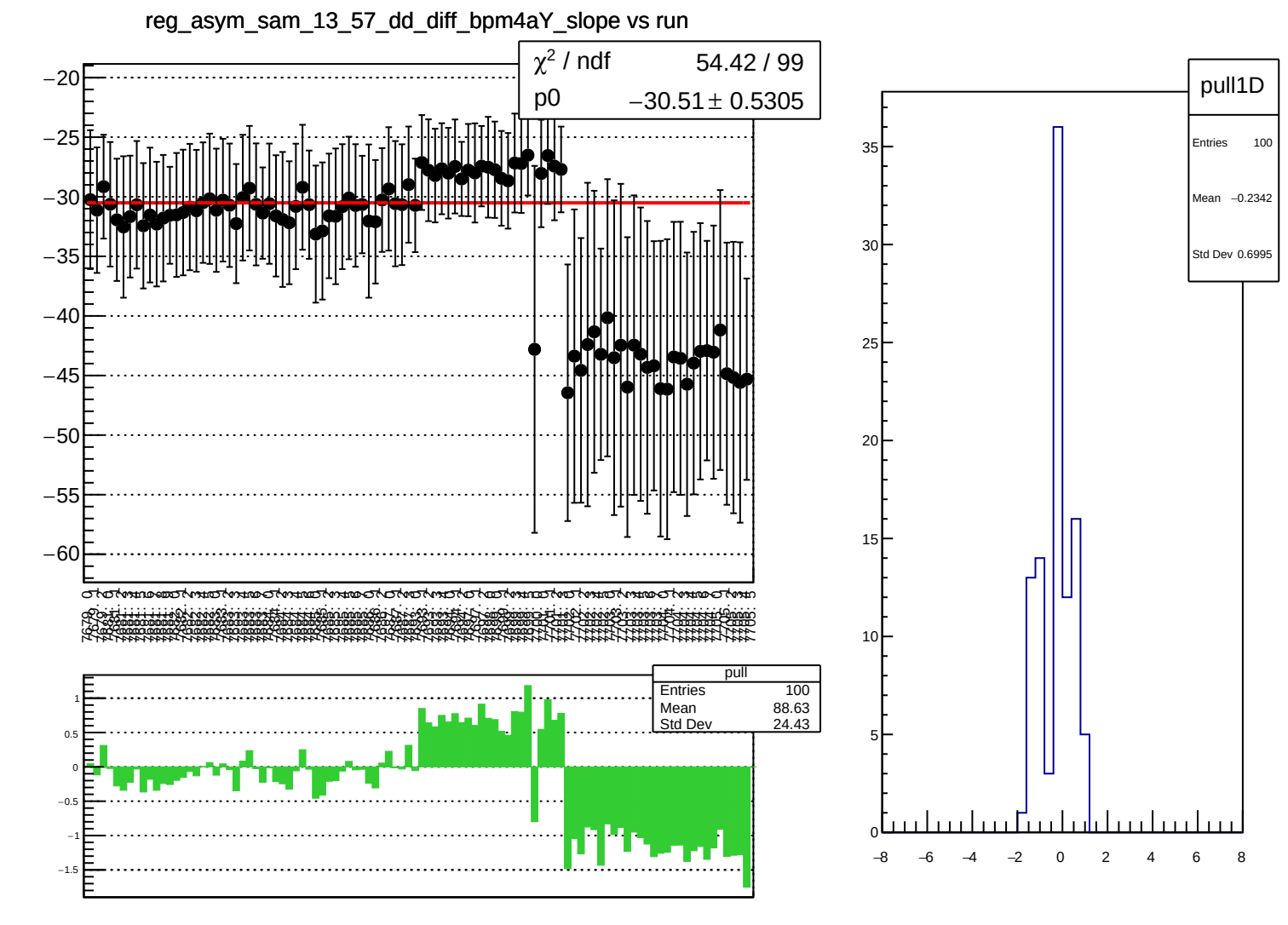

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 39.44 / 99
p0 −66.12 ± 0.8995
pull
Entries 100
Mean 113.9
Std Dev 0
pull1D
Entries 100
Mean 0.2141
Std Dev 0.5904

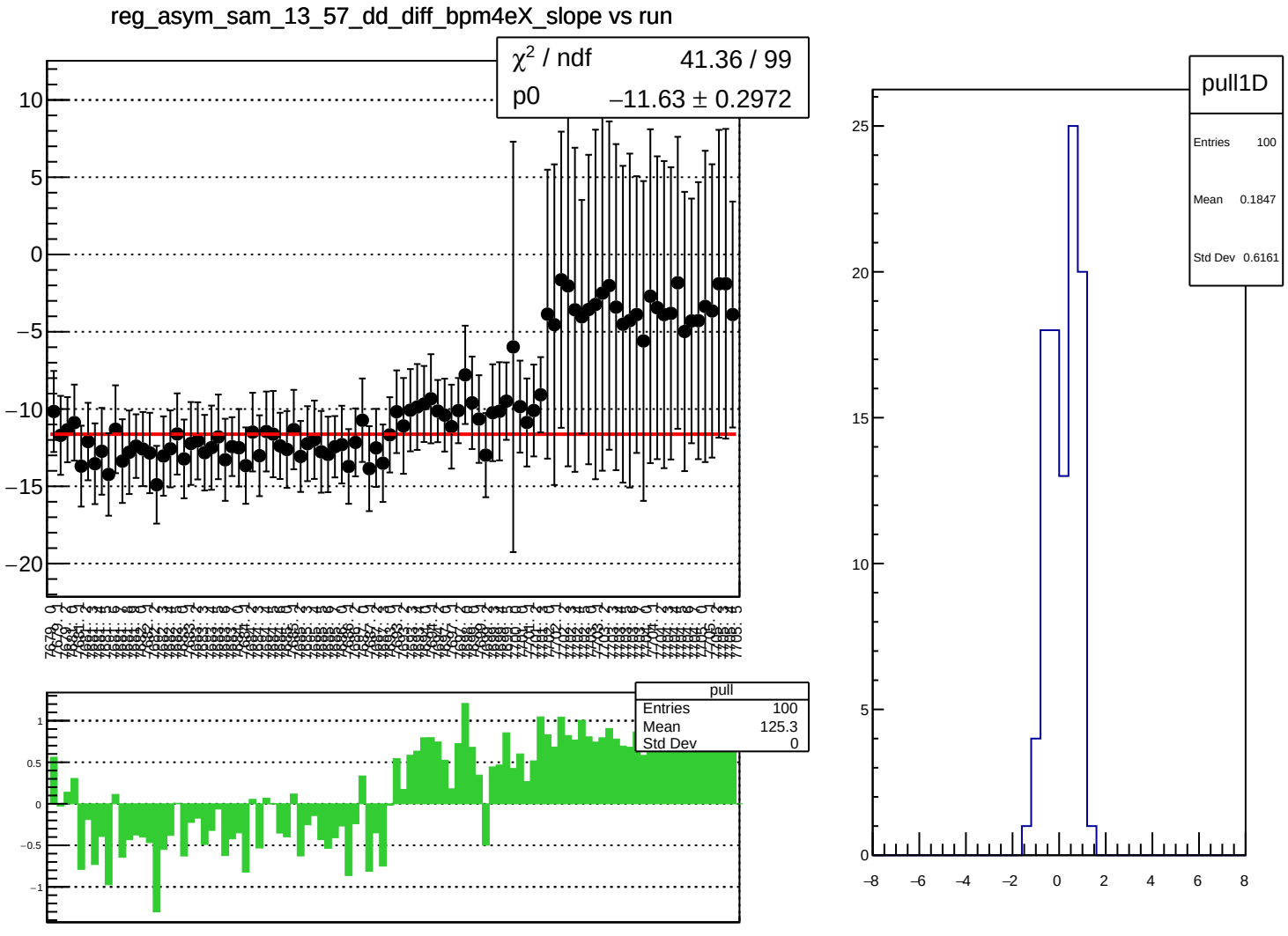

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 43.54 / 99
p0 71.68 ± 2.336
120
100
80
60
40
20
0
pull
Entries 100
Mean 139.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 100
Mean −0.1154
Std Dev 0.6497
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

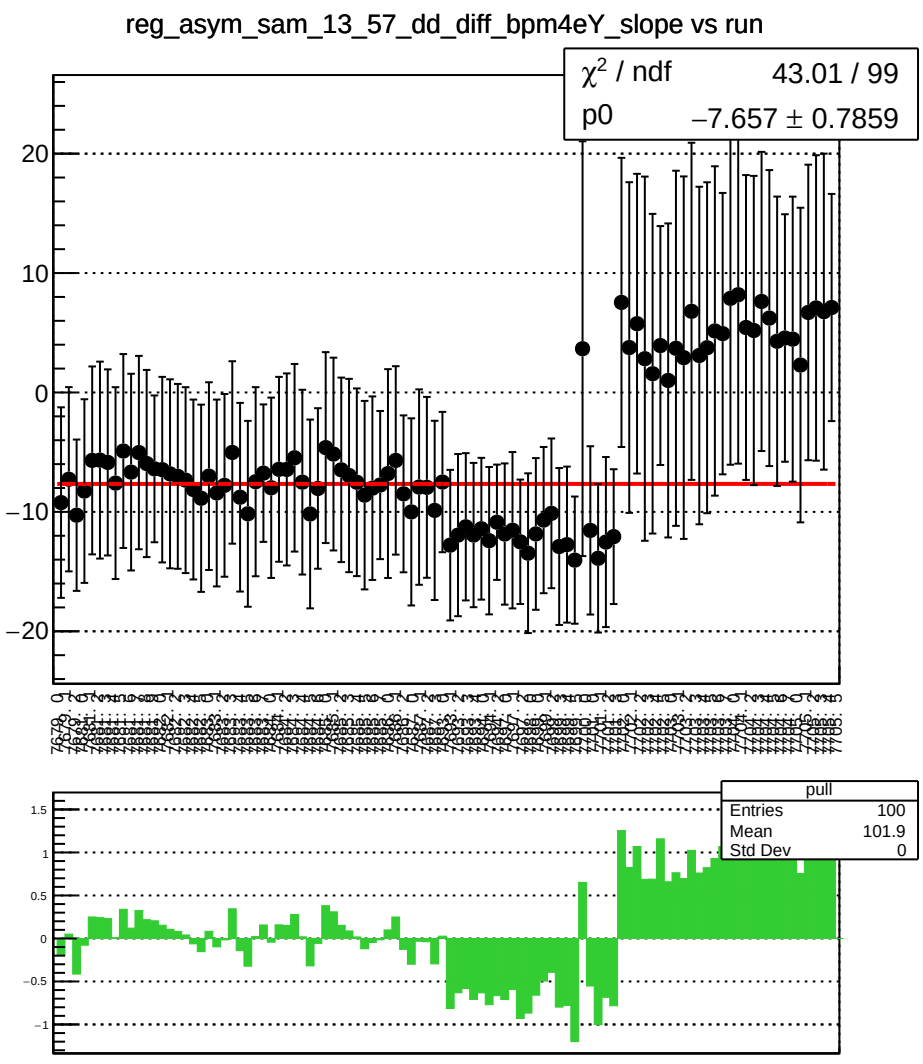

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 13.49 / 99
p0 −0.3157 ± 0.1082
pull
Entries 100
Mean −72.94
Std Dev 0

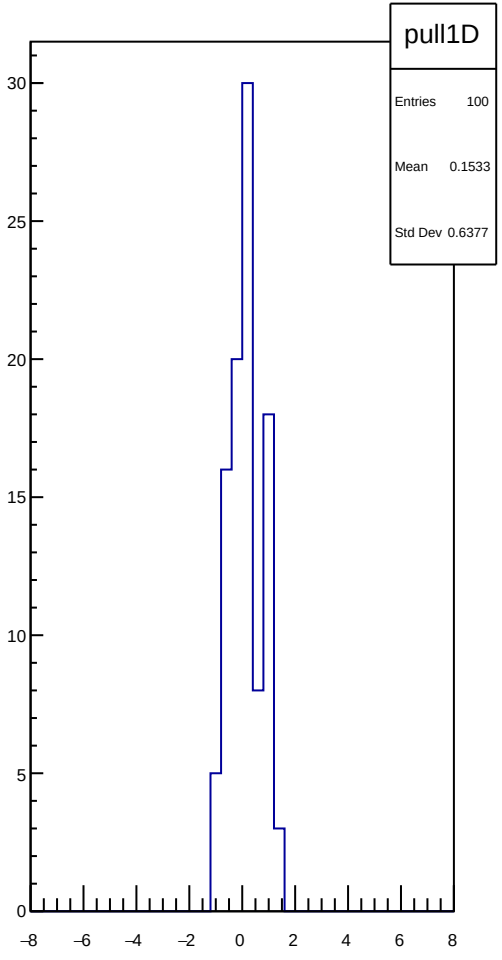

pull1D
Entries 100
Mean 0.06431
Std Dev 0.3616

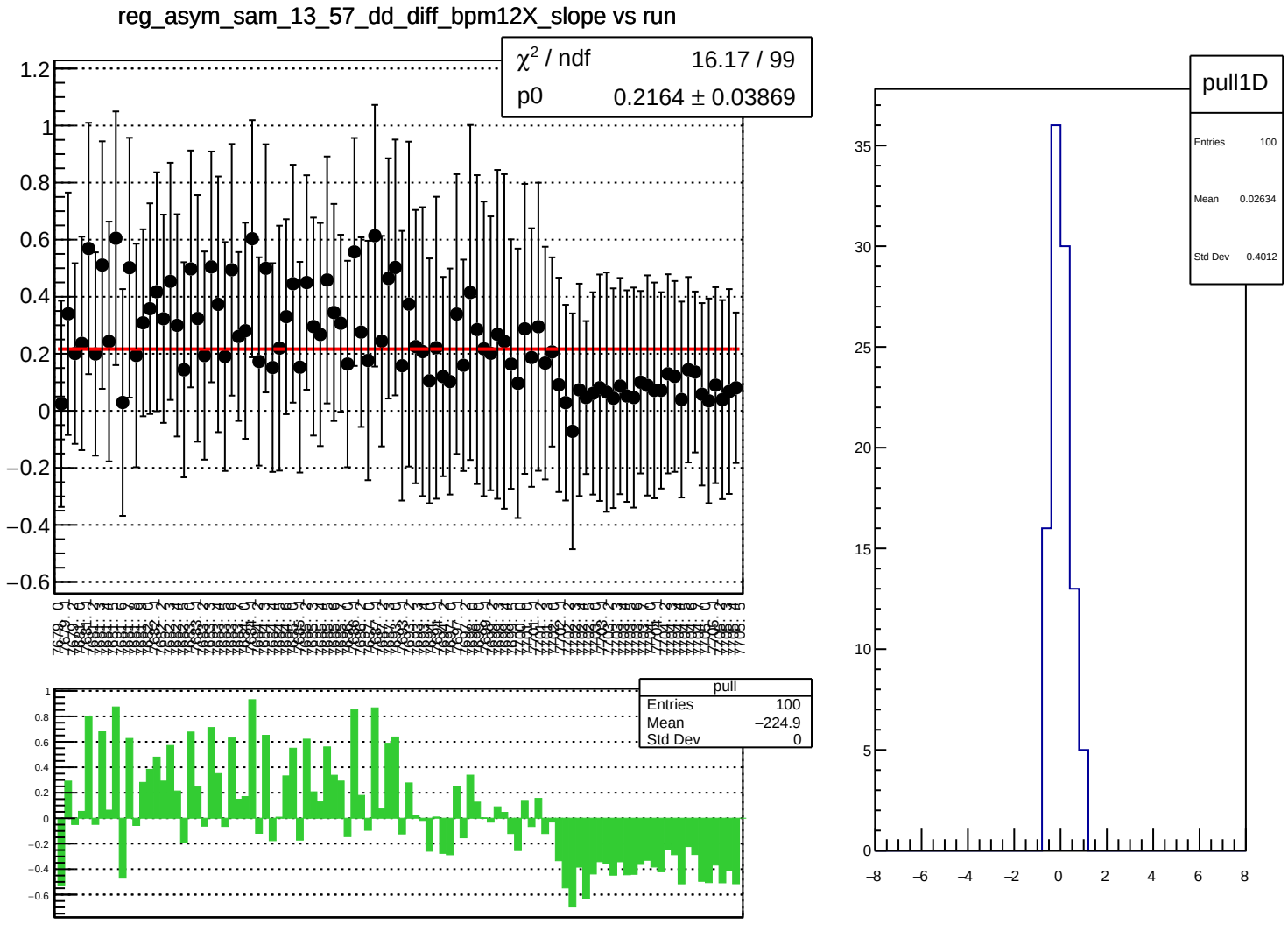

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 24.8 / 99
p0 −14.66 ± 0.3684
pull
Entries 100
Mean 110
Std Dev 0
pull1D
Entries 100
Mean −0.151
Std Dev 0.4746

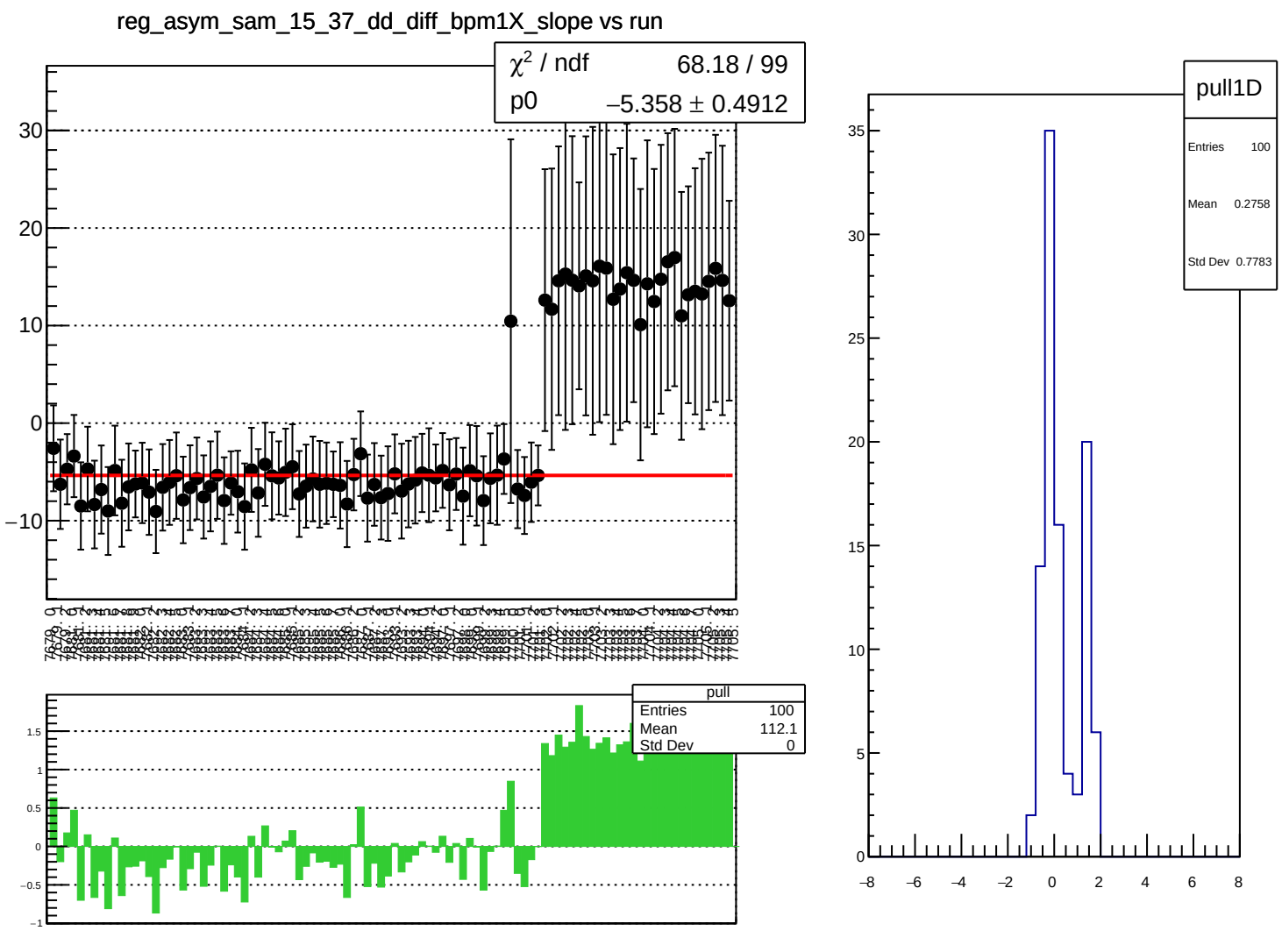

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 54.42 / 99
p0 −30.51 ± 0.5305
pull
Entries 100
Mean 88.63
Std Dev 24.43
pull1D
Entries 100
Mean −0.2342
Std Dev 0.6995

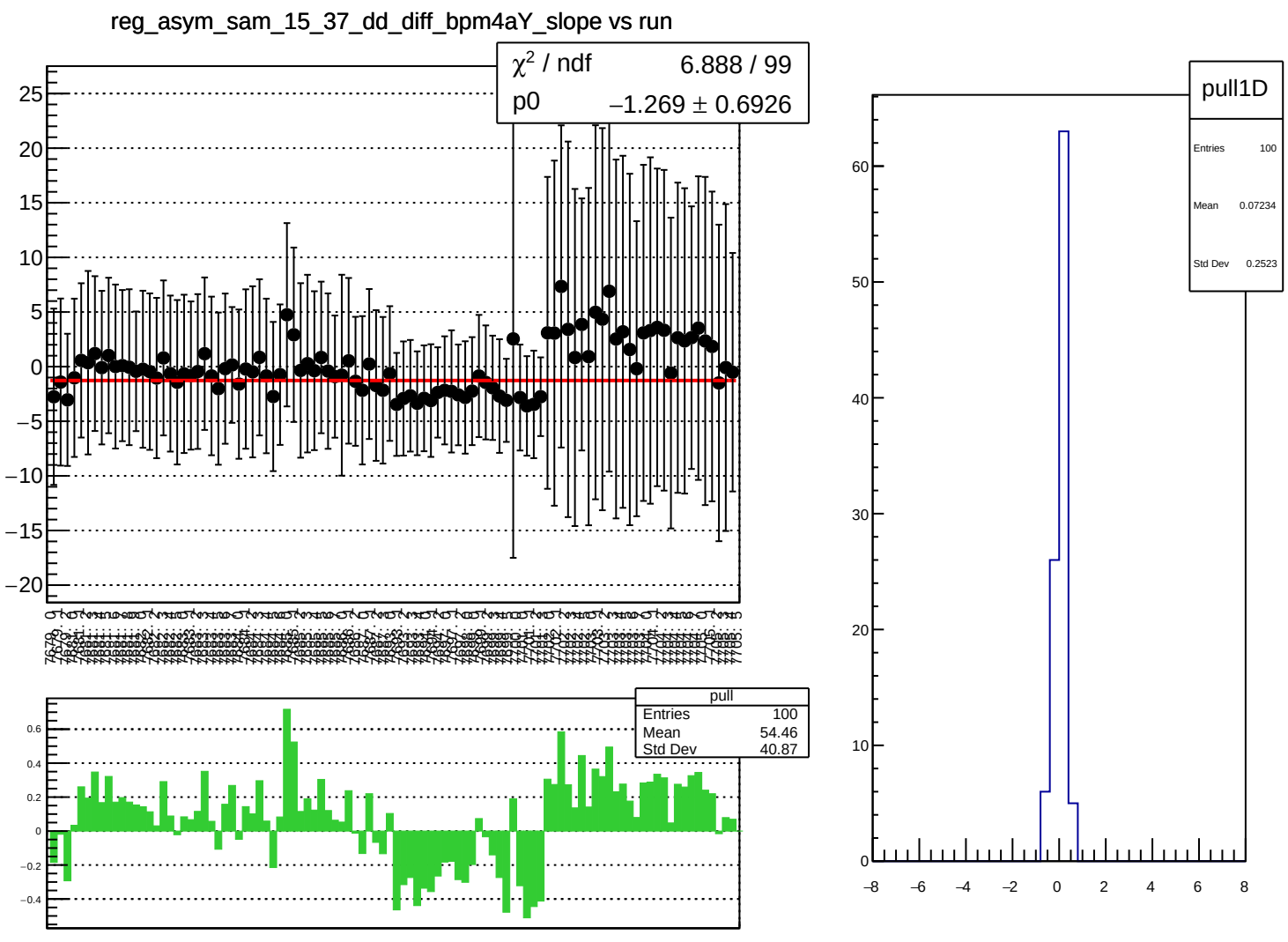

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 41.36 / 99
p0 −11.63 ± 0.2972
pull
Entries 100
Mean 125.3
Std Dev 0
pull1D
Entries 100
Mean 0.1847
Std Dev 0.6161

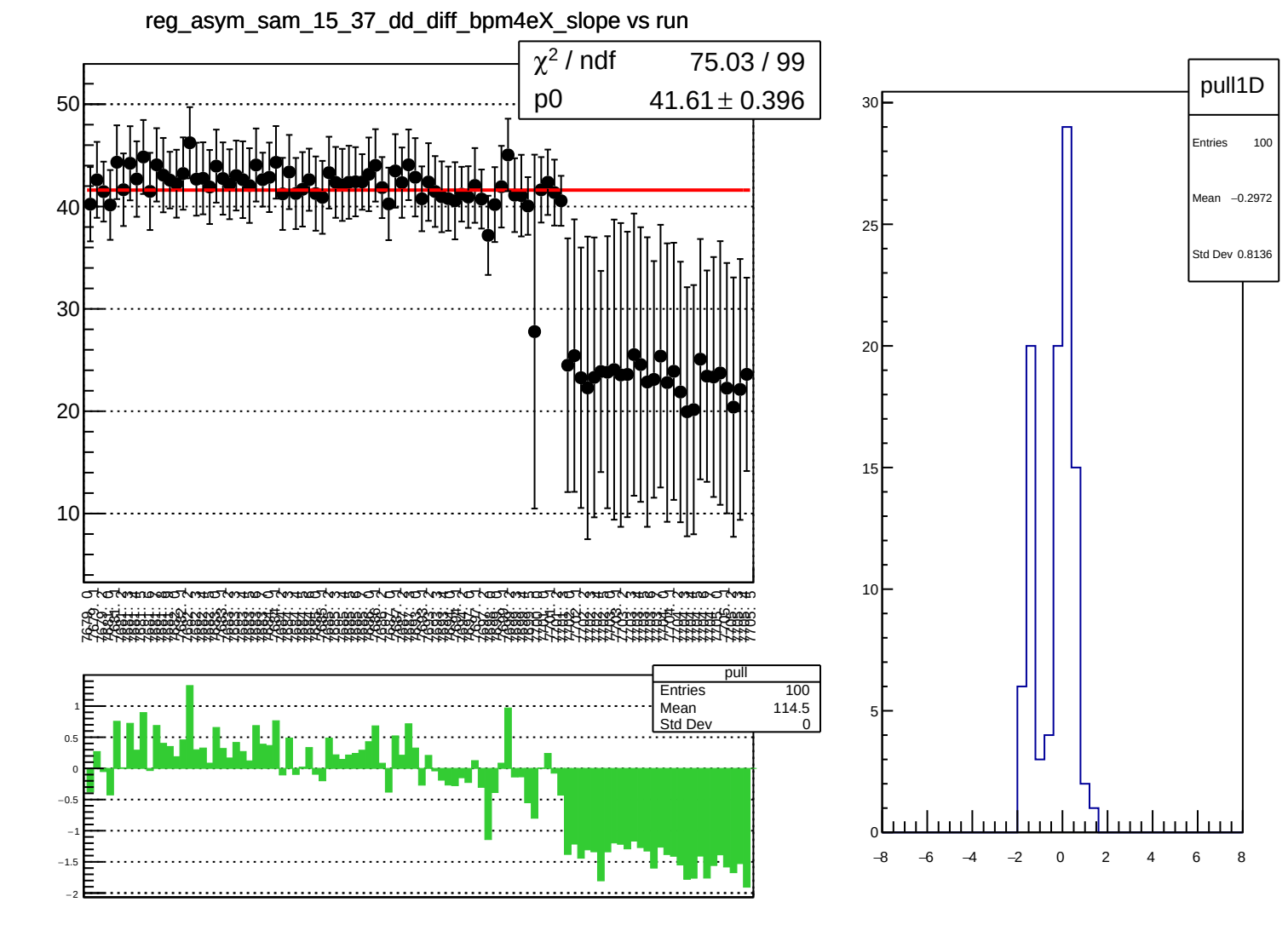

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 43.01 / 99
p0 −7.657 ± 0.7859
pull
Entries 100
Mean 101.9
Std Dev 0

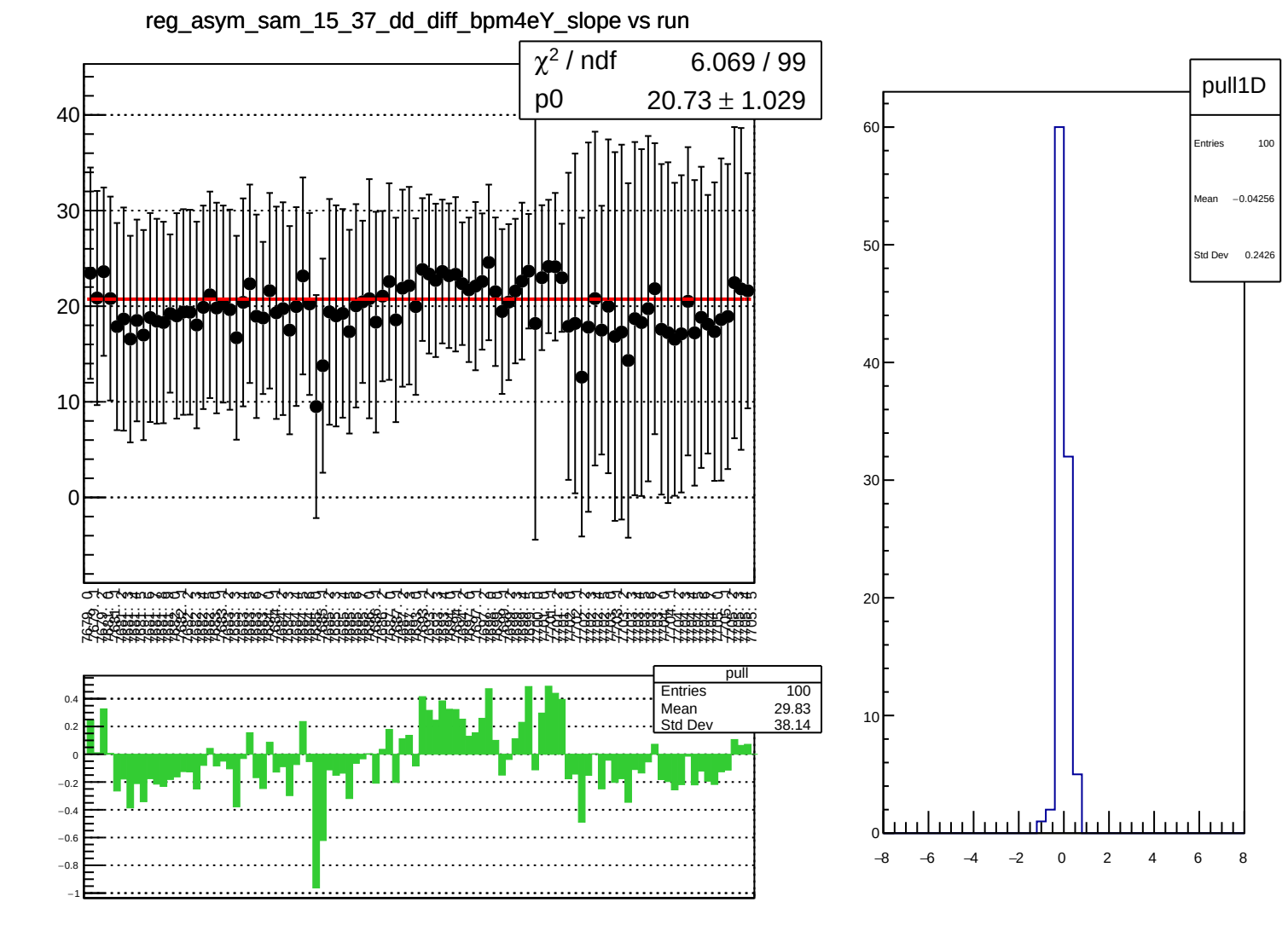

pull1D
Entries 100
Mean 0.1533
Std Dev 0.6377

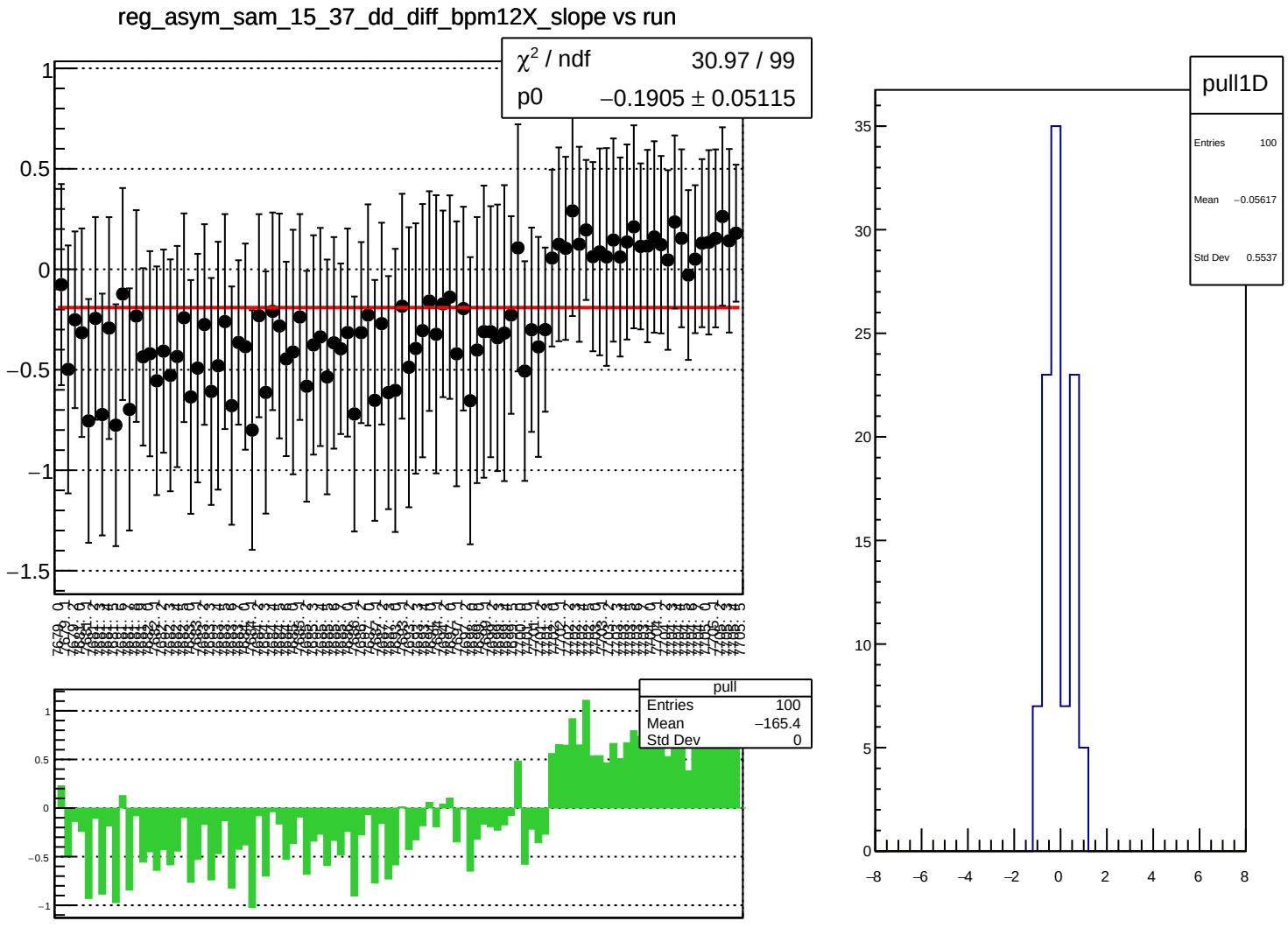

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 16.17 / 99
p0 0.2164 ± 0.03869
pull
Entries 100
Mean −224.9
Std Dev 0
pull1D
Entries 100
Mean 0.02634
Std Dev 0.4012

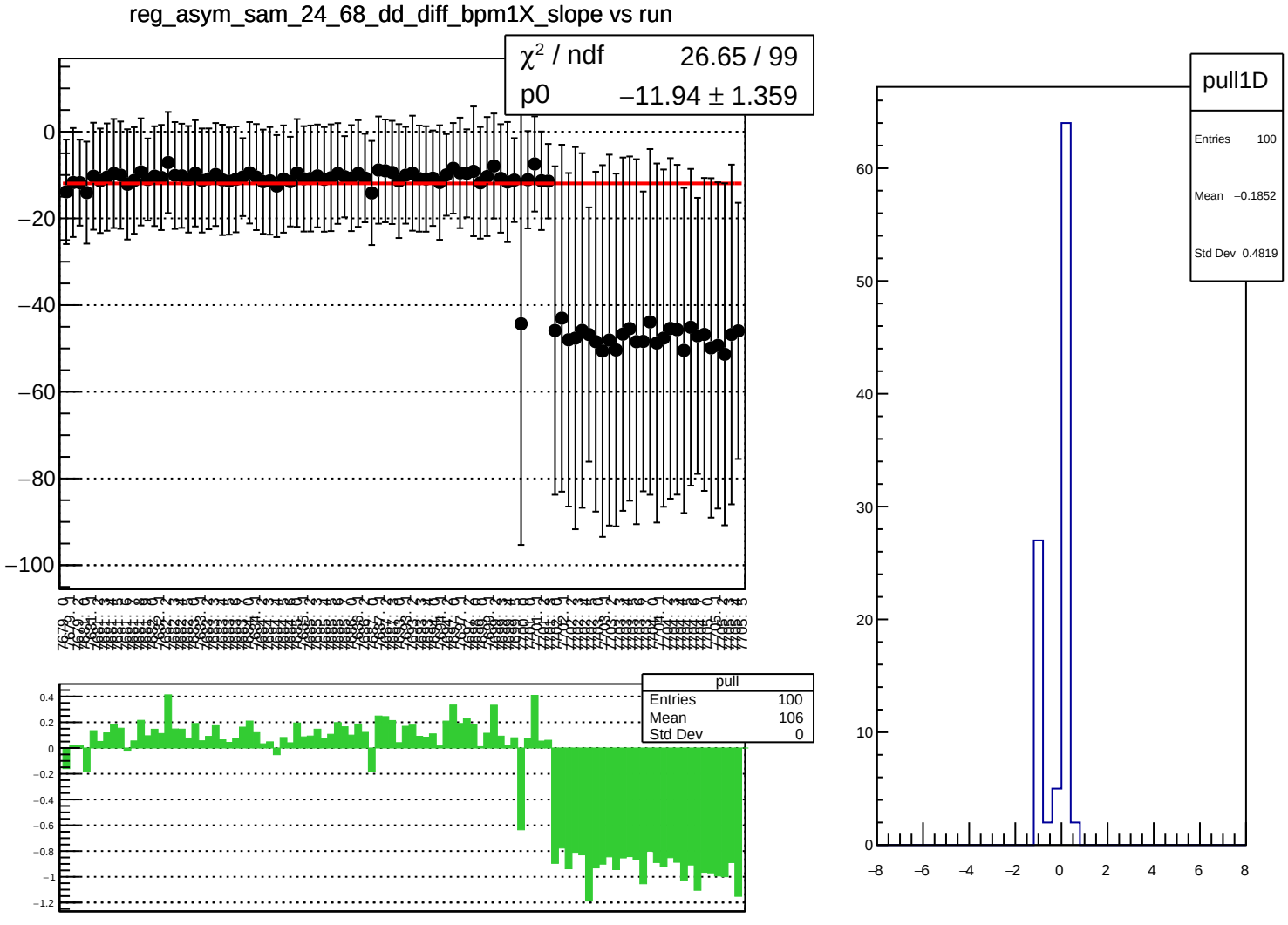

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 68.18 / 99
p0 −5.358 ± 0.4912
pull
Entries 100
Mean 112.1
Std Dev 0
pull1D
Entries 100
Mean 0.2758
Std Dev 0.7783

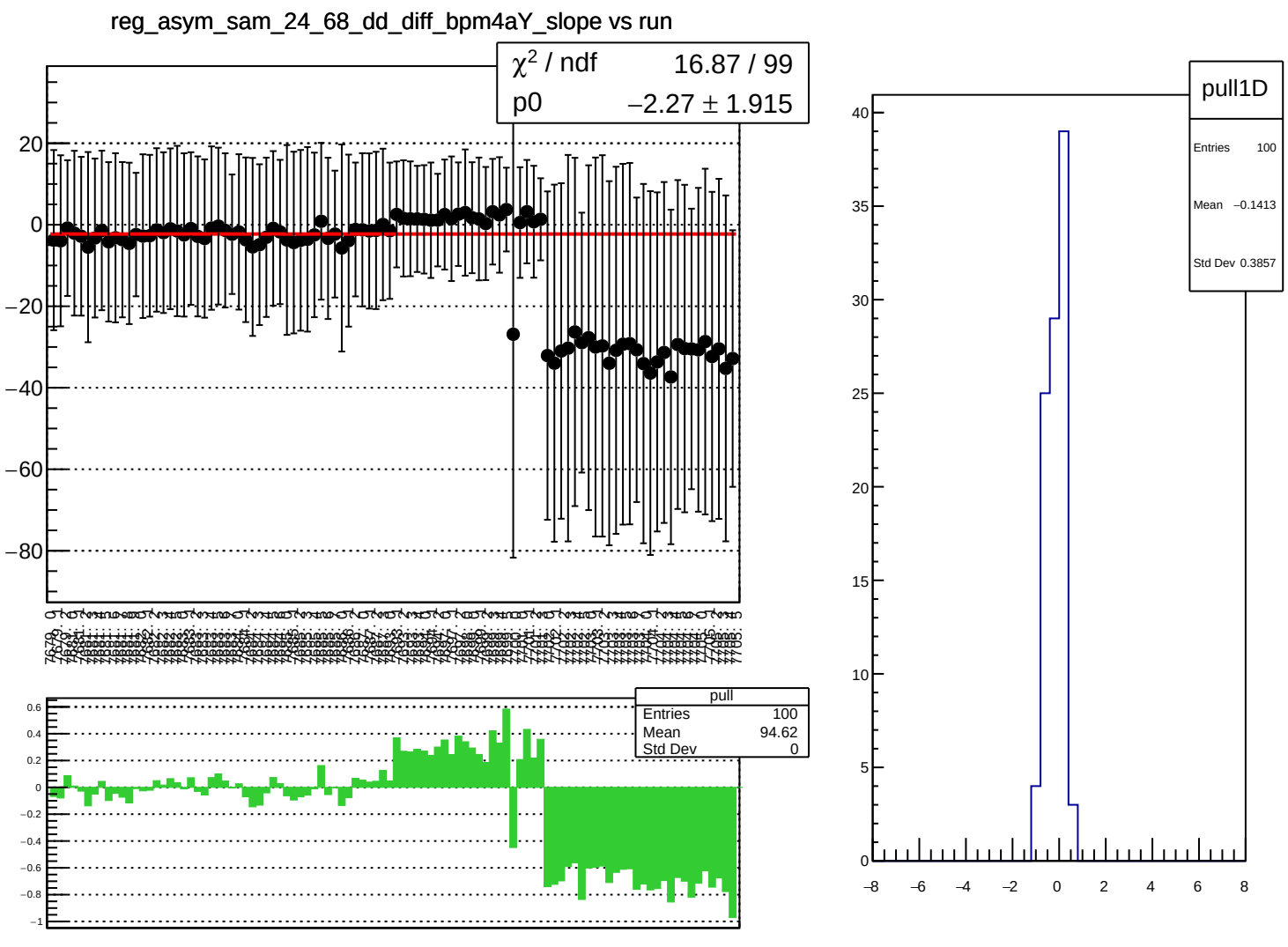

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.888 / 99
p0 −1.269 ± 0.6926
pull
Entries 100
Mean 54.46
Std Dev 40.87
pull1D
Entries 100
Mean 0.07234
Std Dev 0.2523

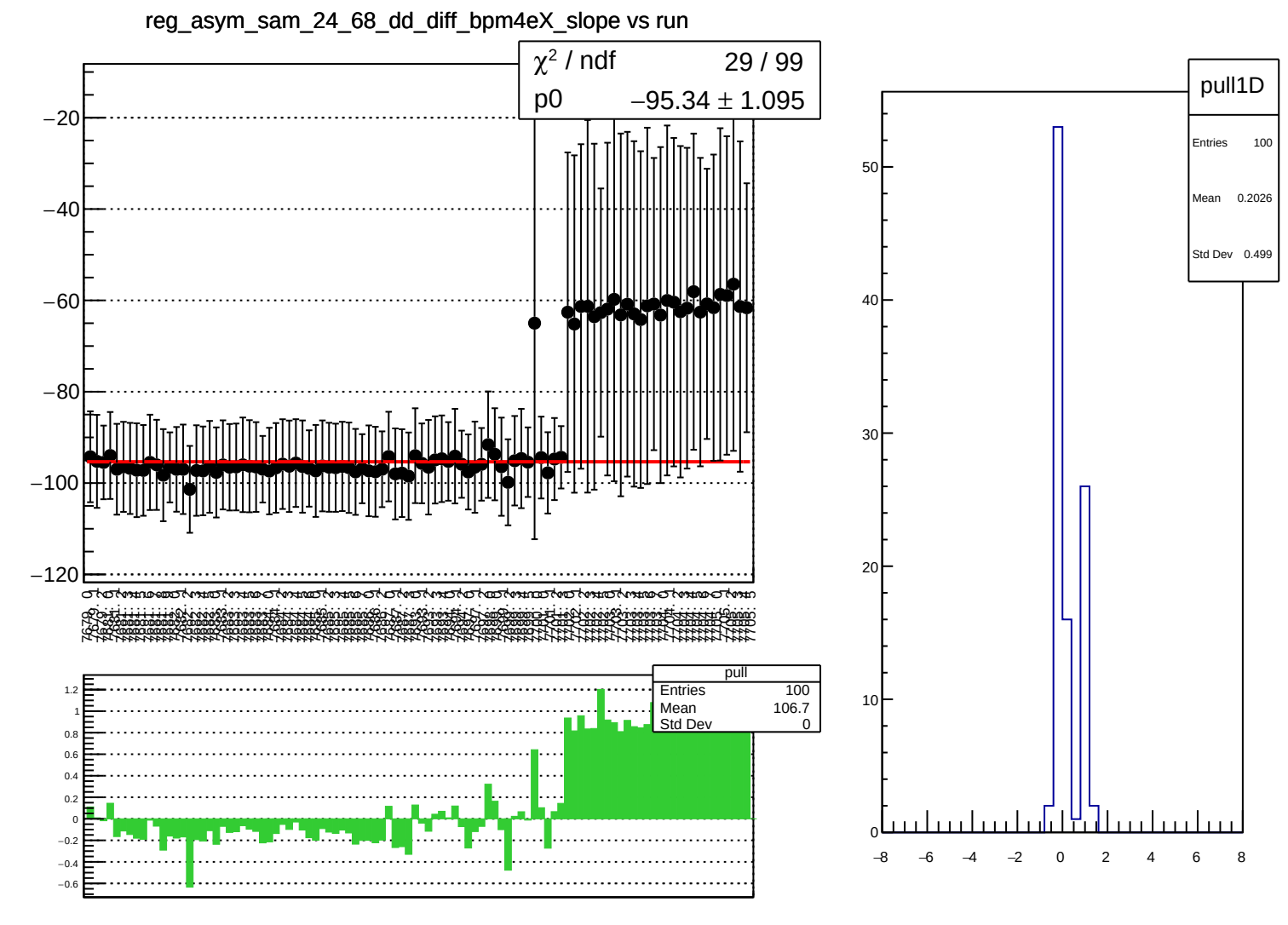

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 75.03 / 99
p0 41.61 ± 0.396
pull
Entries 100
Mean 114.5
Std Dev 0
pull1D
Entries 100
Mean −0.2972
Std Dev 0.8136

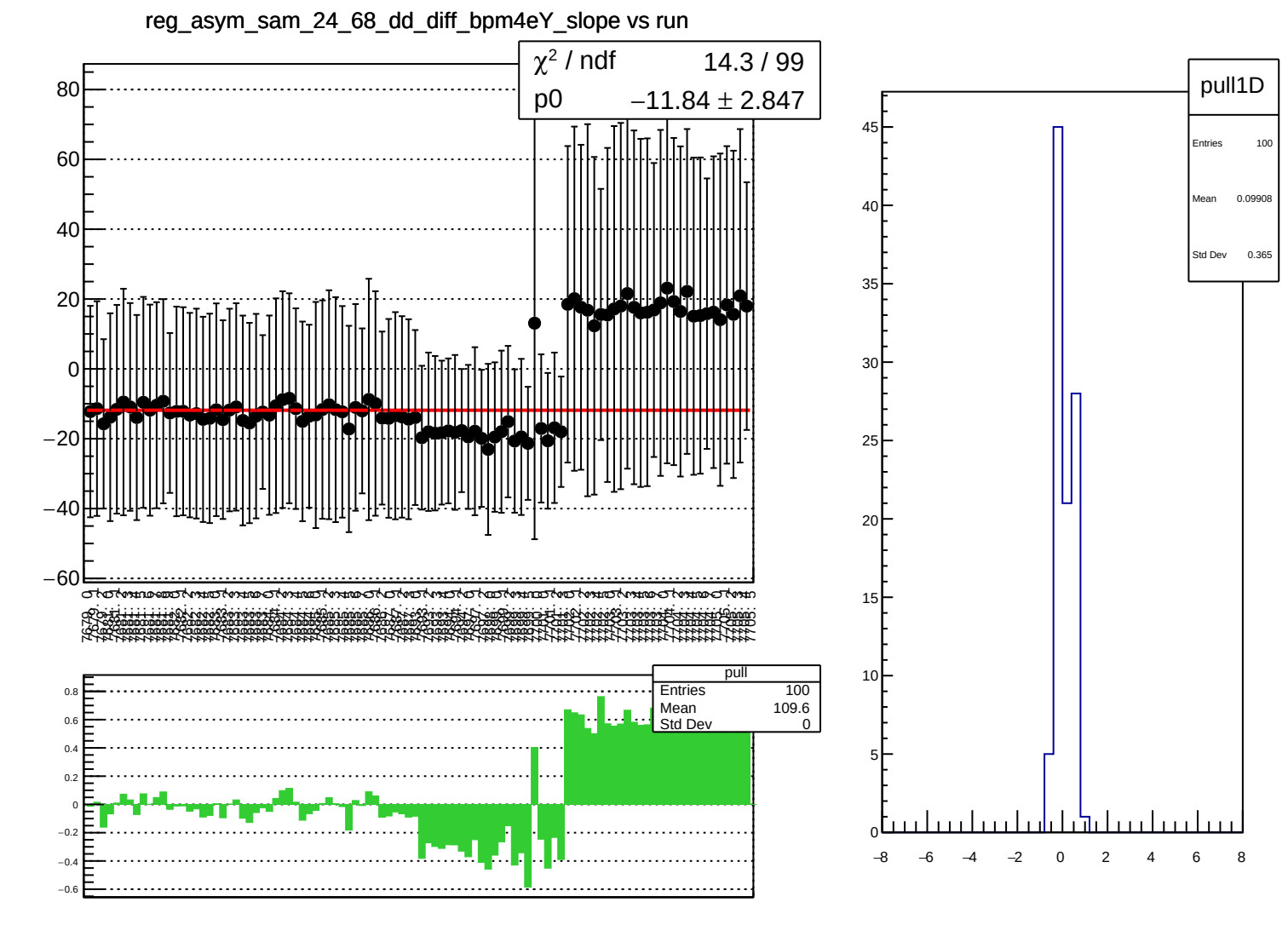

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.069 / 99
p0 20.73 ± 1.029
pull
Entries 100
Mean 29.83
Std Dev 38.14
pull1D
Entries 100
Mean −0.04256
Std Dev 0.2426

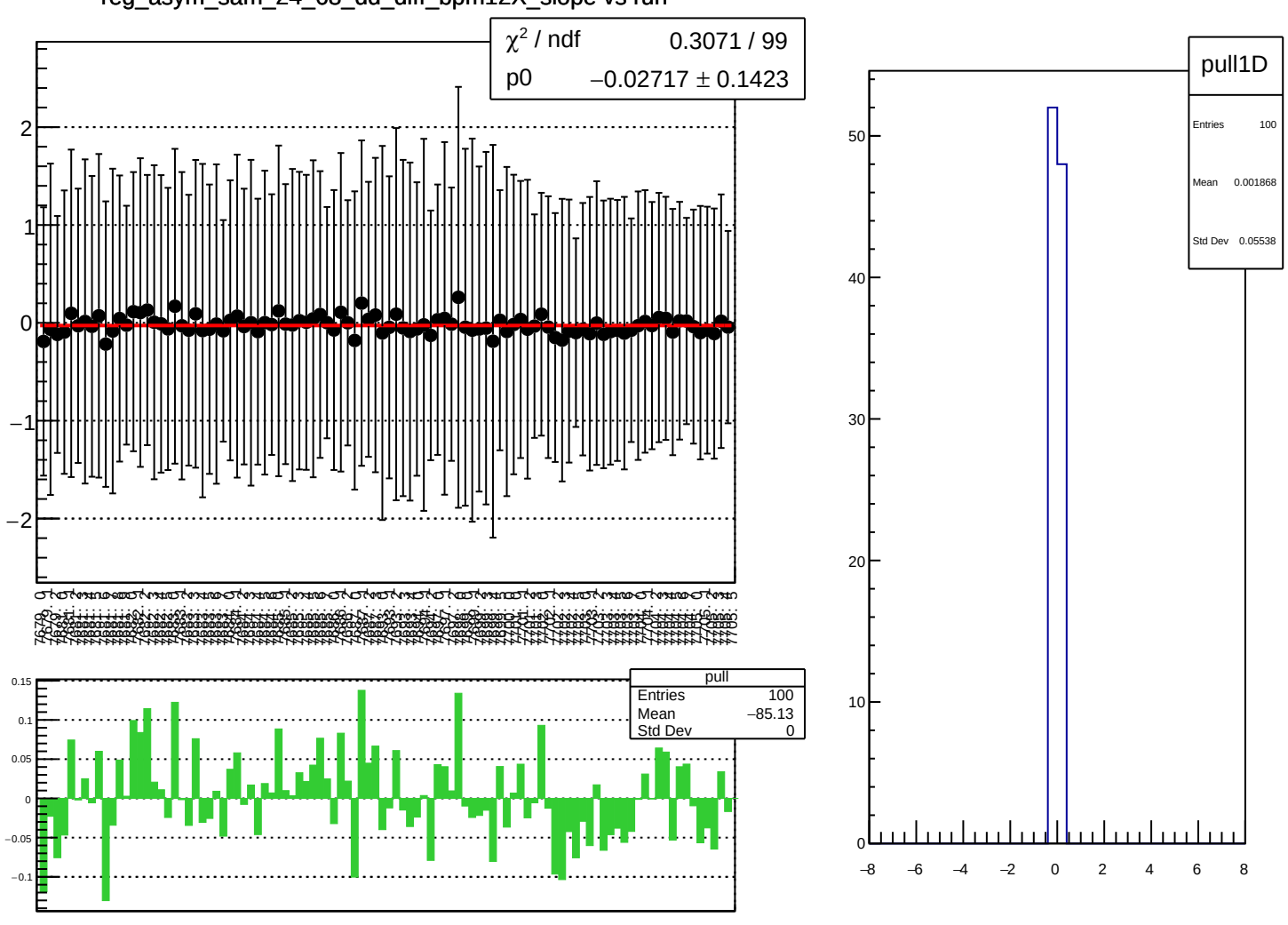

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 30.97 / 99
p0 −0.1905 ± 0.05115
pull
Entries 100
Mean −165.4
Std Dev 0
pull1D
Entries 100
Mean −0.05617
Std Dev 0.5537

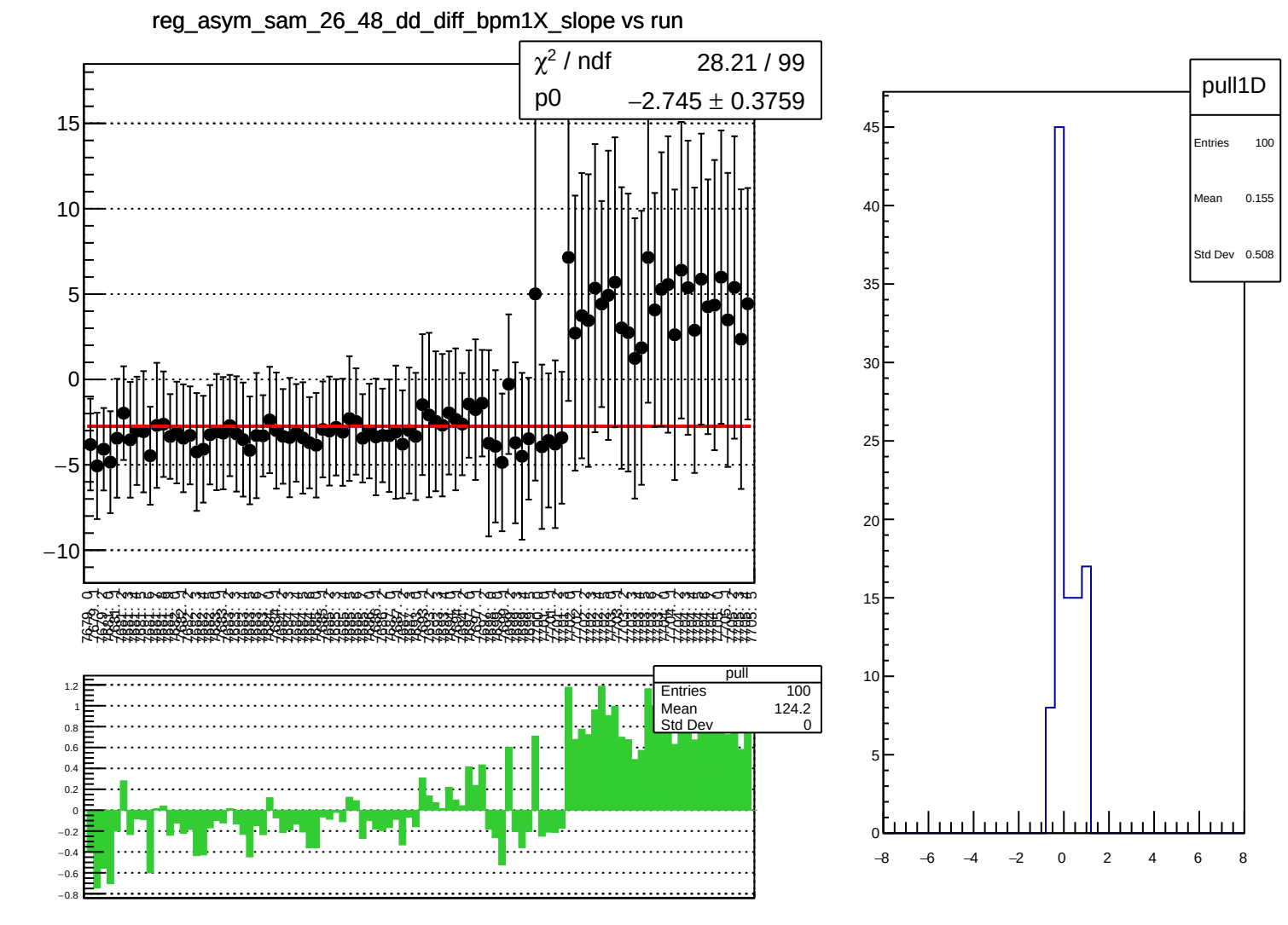

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 26.65 / 99
p0 −11.94 ± 1.359
0
−20
−40
−60
−80
−100
pull
Entries 100
Mean 106
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 100
Mean −0.1852
Std Dev 0.4819
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

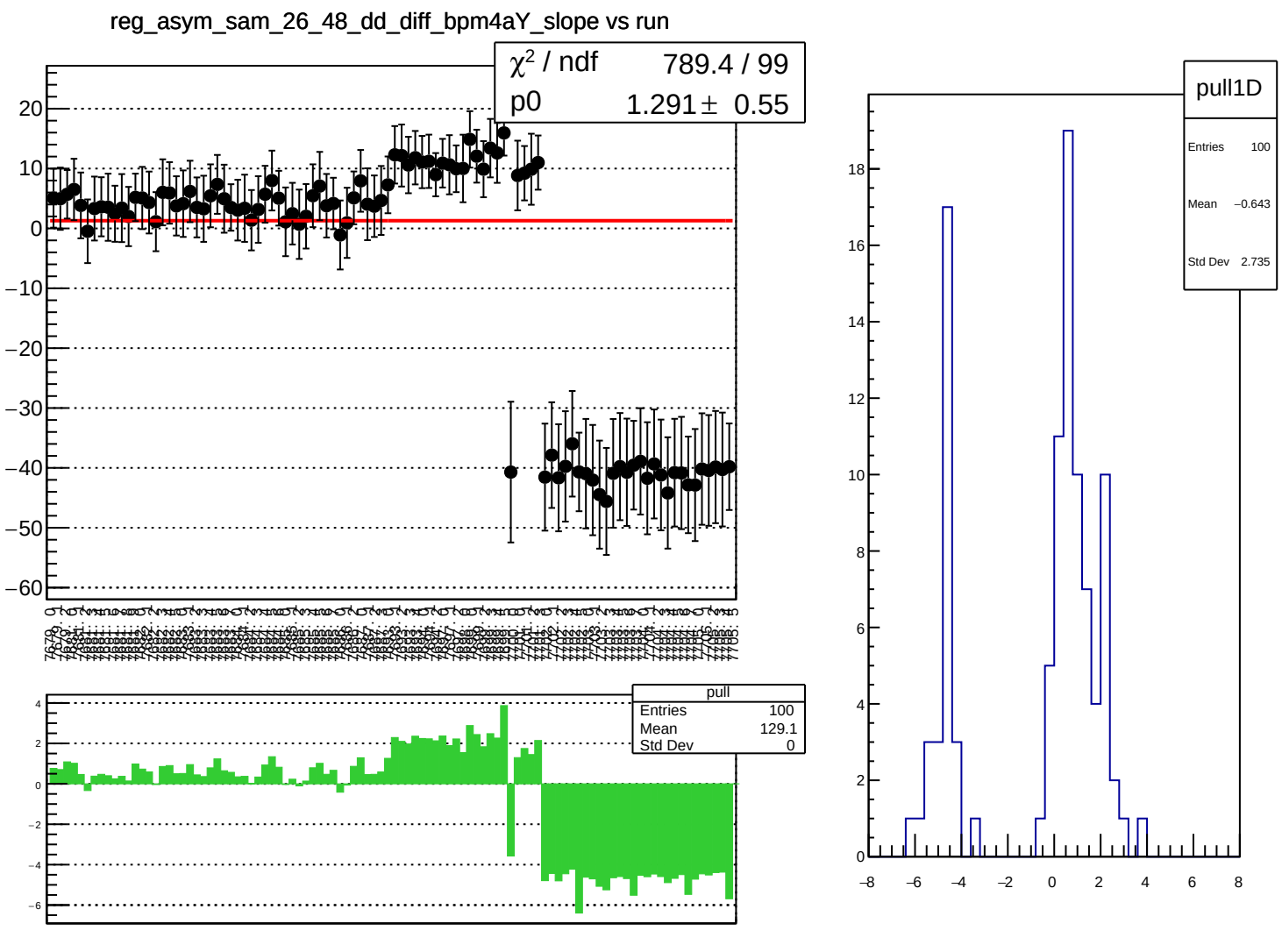

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.87 / 99
p0 −2.27 ± 1.915
pull
Entries 100
Mean 94.62
Std Dev 0
pull1D
Entries 100
Mean −0.1413
Std Dev 0.3857

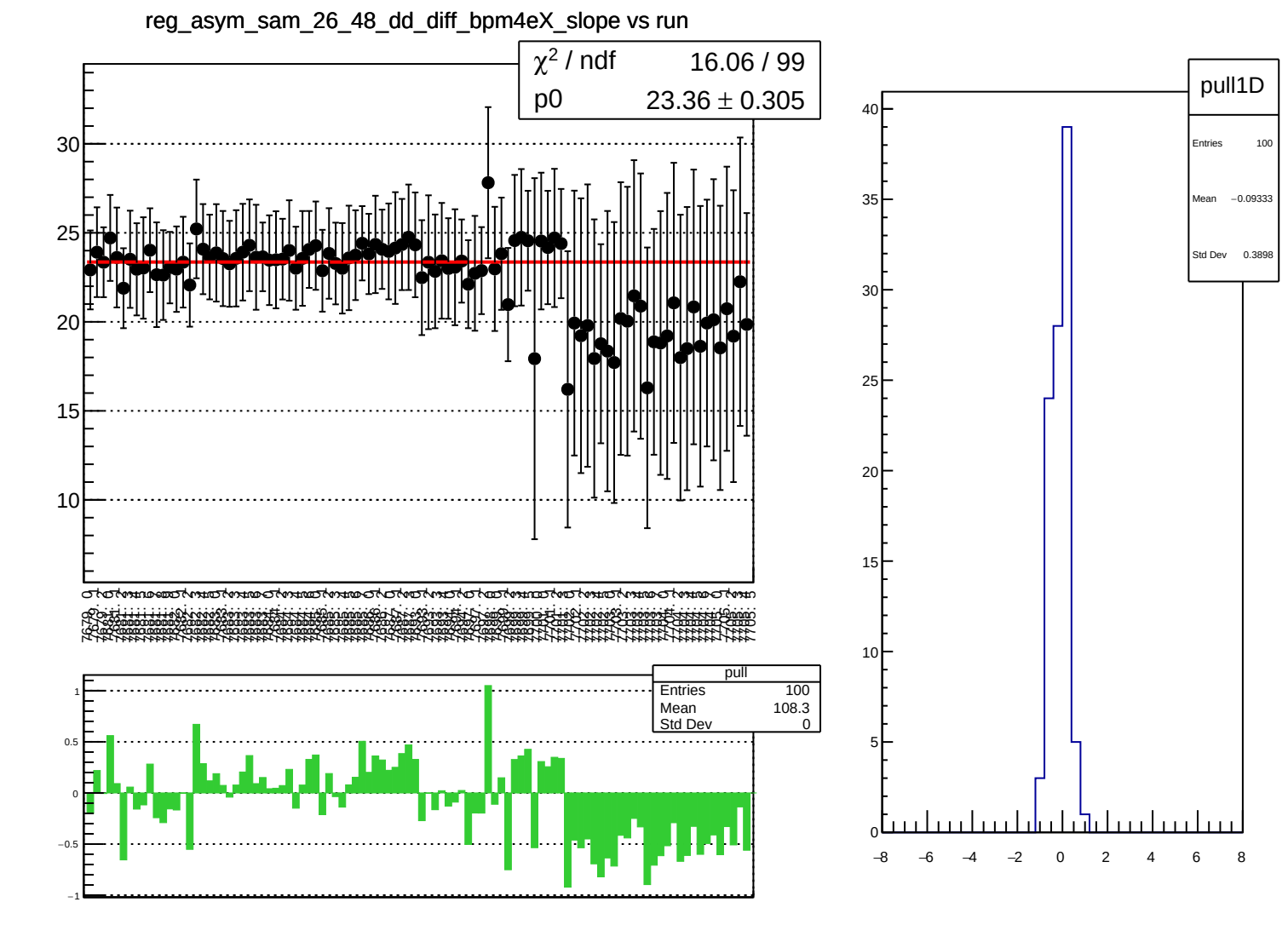

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 29 / 99
p0 −95.34 ± 1.095
pull
Entries 100
Mean 106.7
Std Dev 0
pull1D
Entries 100
Mean 0.2026
Std Dev 0.499

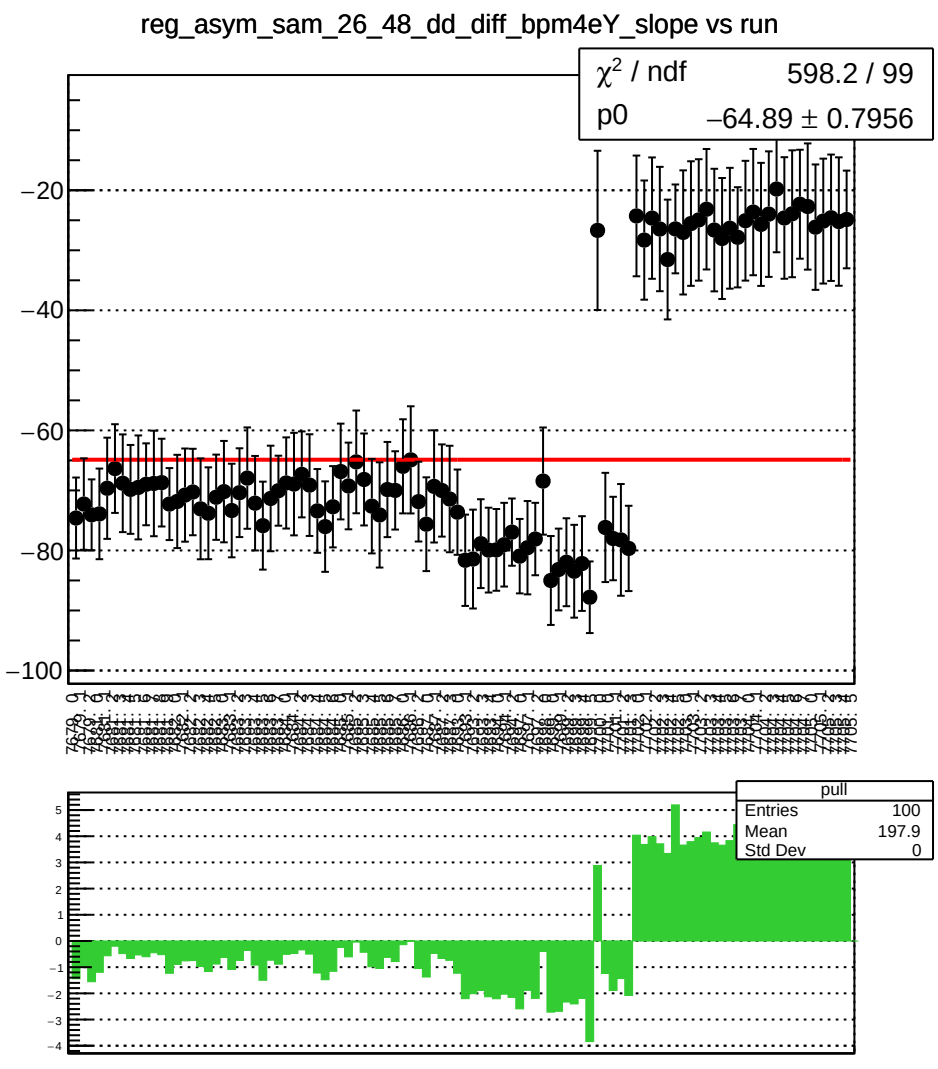

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.3 / 99
p0 −11.84 ± 2.847
pull
Entries 100
Mean 109.6
Std Dev 0
pull1D
Entries 100
Mean 0.09908
Std Dev 0.365

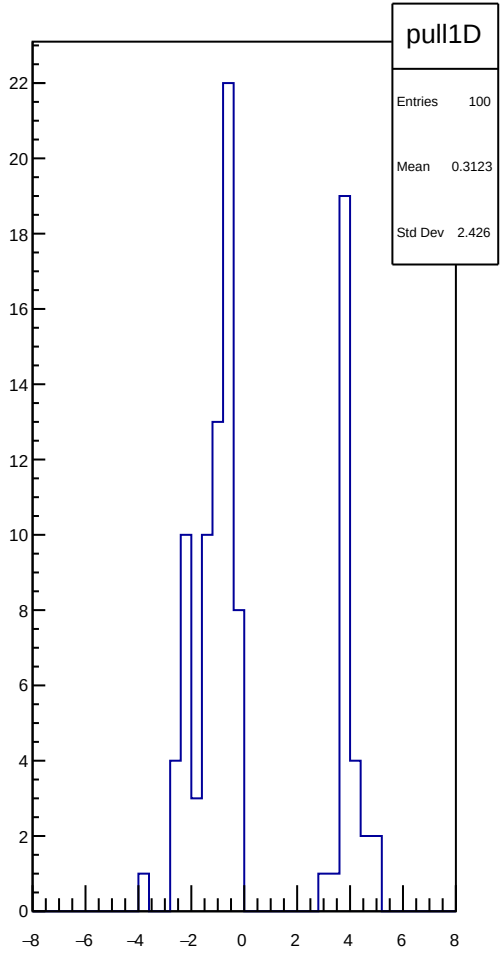

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 0.3071 / 99
p0 −0.02717 ± 0.1423
pull
Entries 100
Mean −85.13
Std Dev 0
pull1D
Entries 100
Mean 0.001868
Std Dev 0.05538

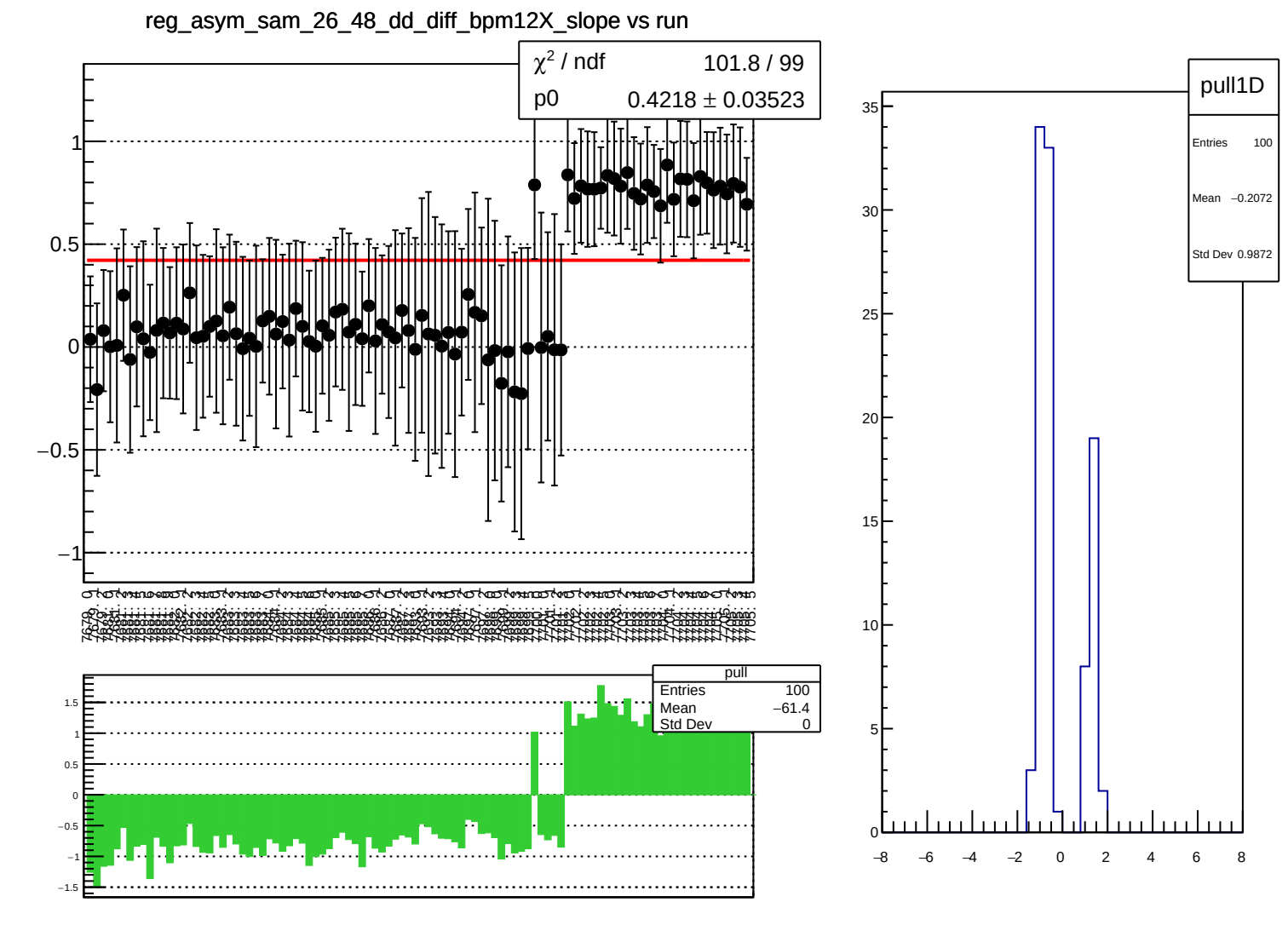

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 28.21 / 99
p0 −2.745 ± 0.3759
pull
Entries 100
Mean 124.2
Std Dev 0
pull1D
Entries 100
Mean 0.155
Std Dev 0.508

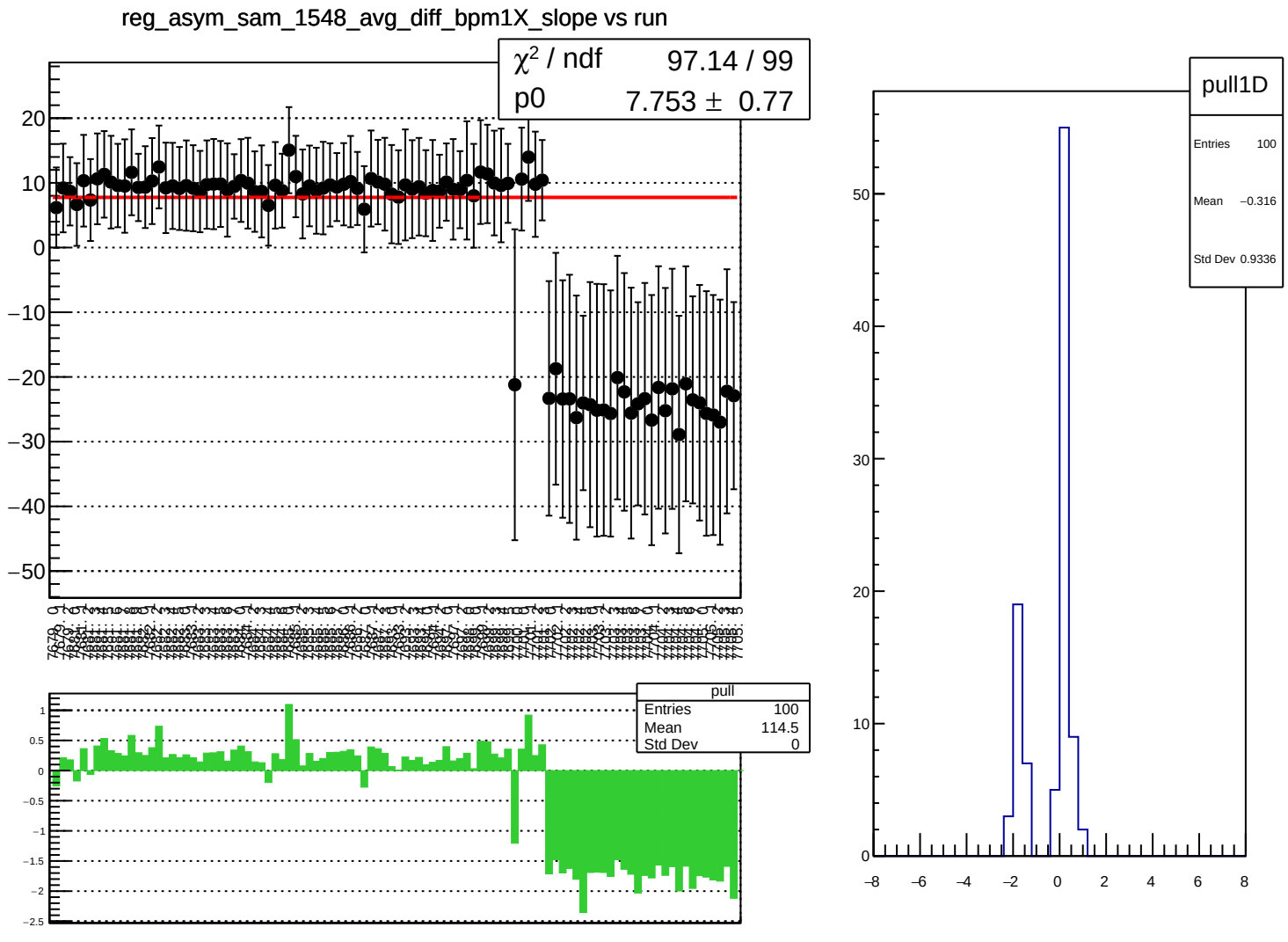

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 789.4 / 99
p0 1.291 ± 0.55
pull
Entries 100
Mean 129.1
Std Dev 0
pull1D
Entries 100
Mean −0.643
Std Dev 2.735

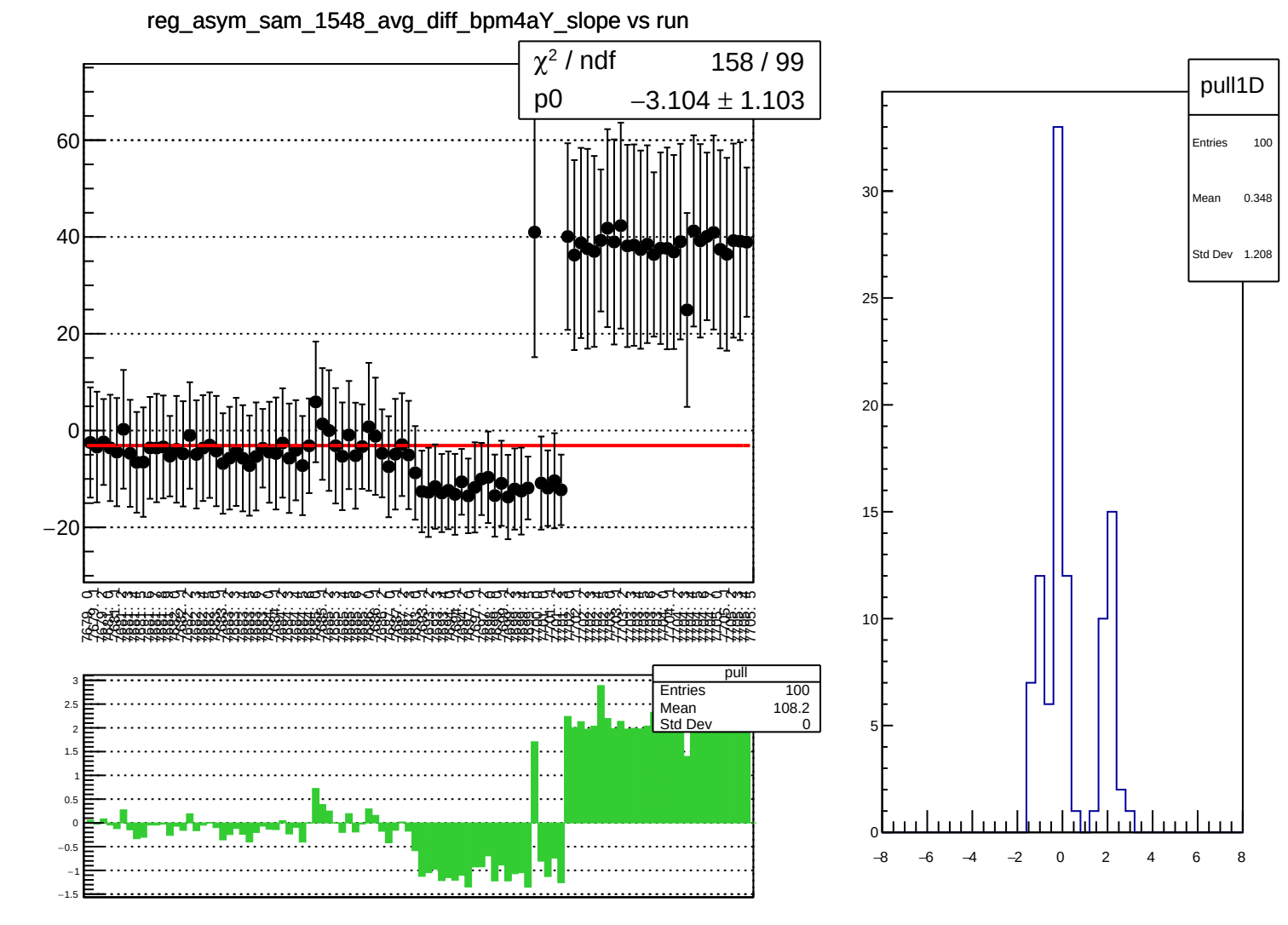

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.06 / 99
p0 23.36 ± 0.305
pull
Entries 100
Mean 108.3
Std Dev 0
pull1D
Entries 100
Mean −0.09333
Std Dev 0.3898

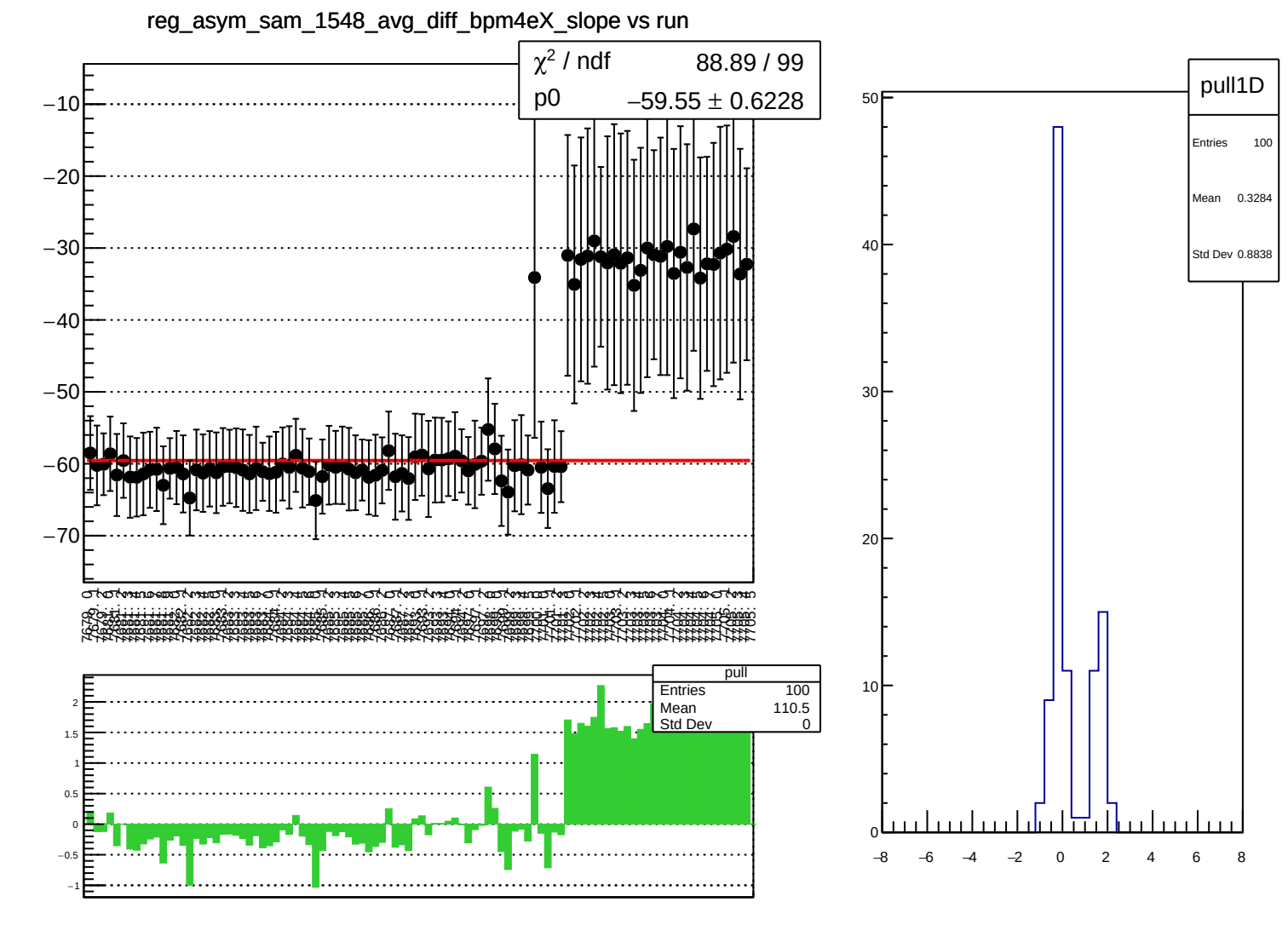

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 598.2 / 99
p0 −64.89 ± 0.7956
−20
−40
−60
−80
−100
pull
Entries 100
Mean 197.9
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
−4

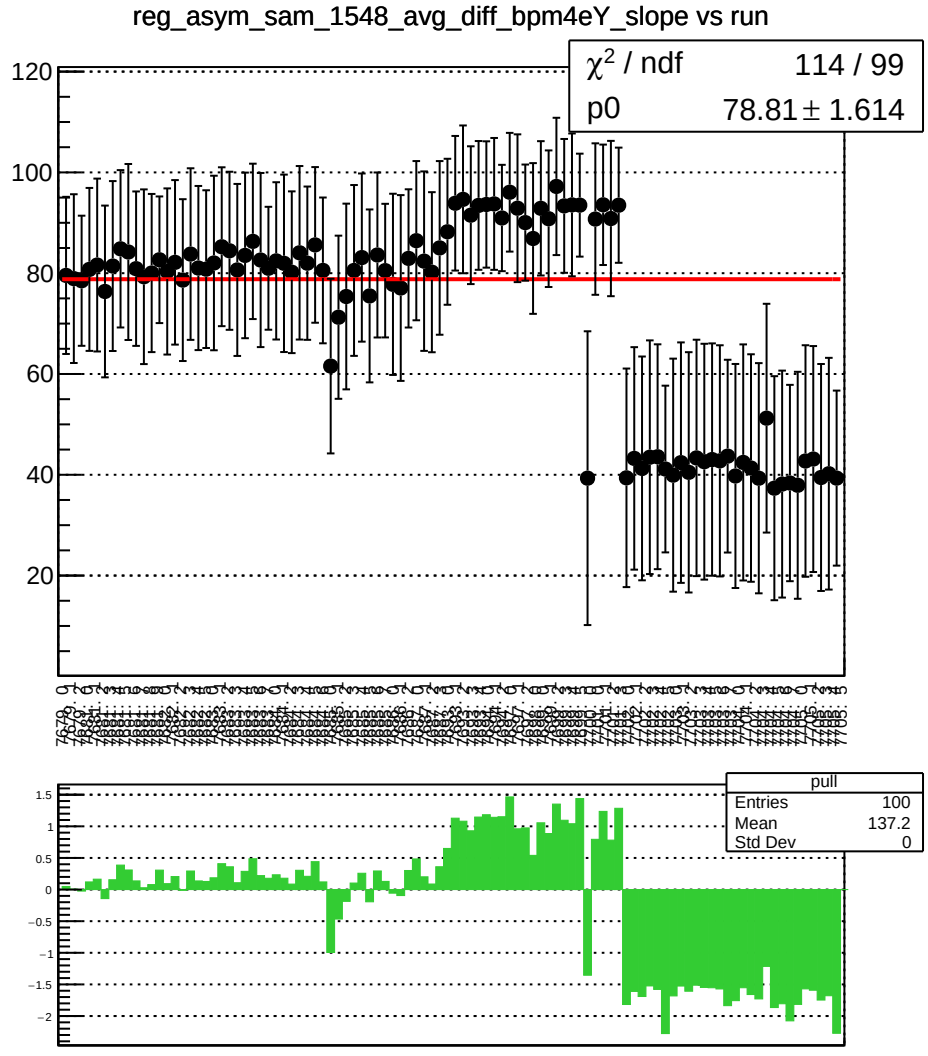

pull1D
Entries 100
Mean 0.3123
Std Dev 2.426
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

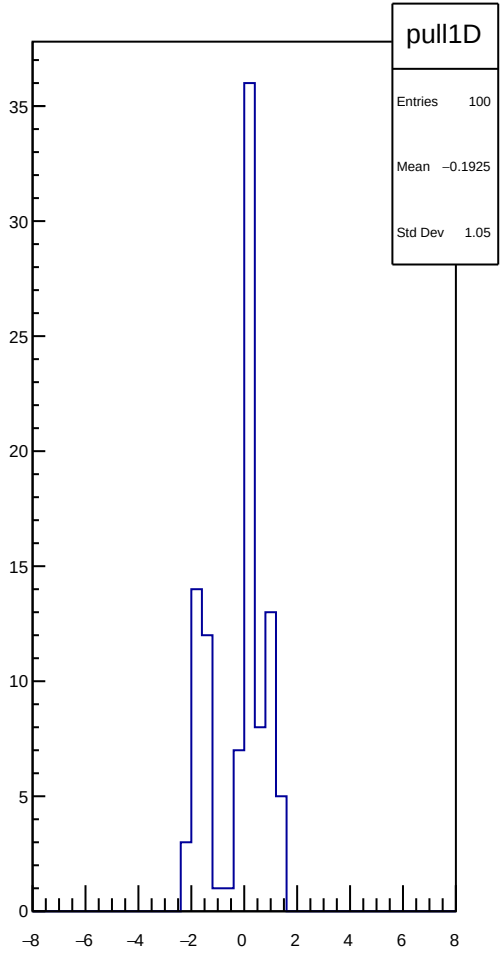

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 101.8 / 99
p0 0.4218 ± 0.03523
pull
Entries 100
Mean −61.4
Std Dev 0
pull1D
Entries 100
Mean −0.2072
Std Dev 0.9872

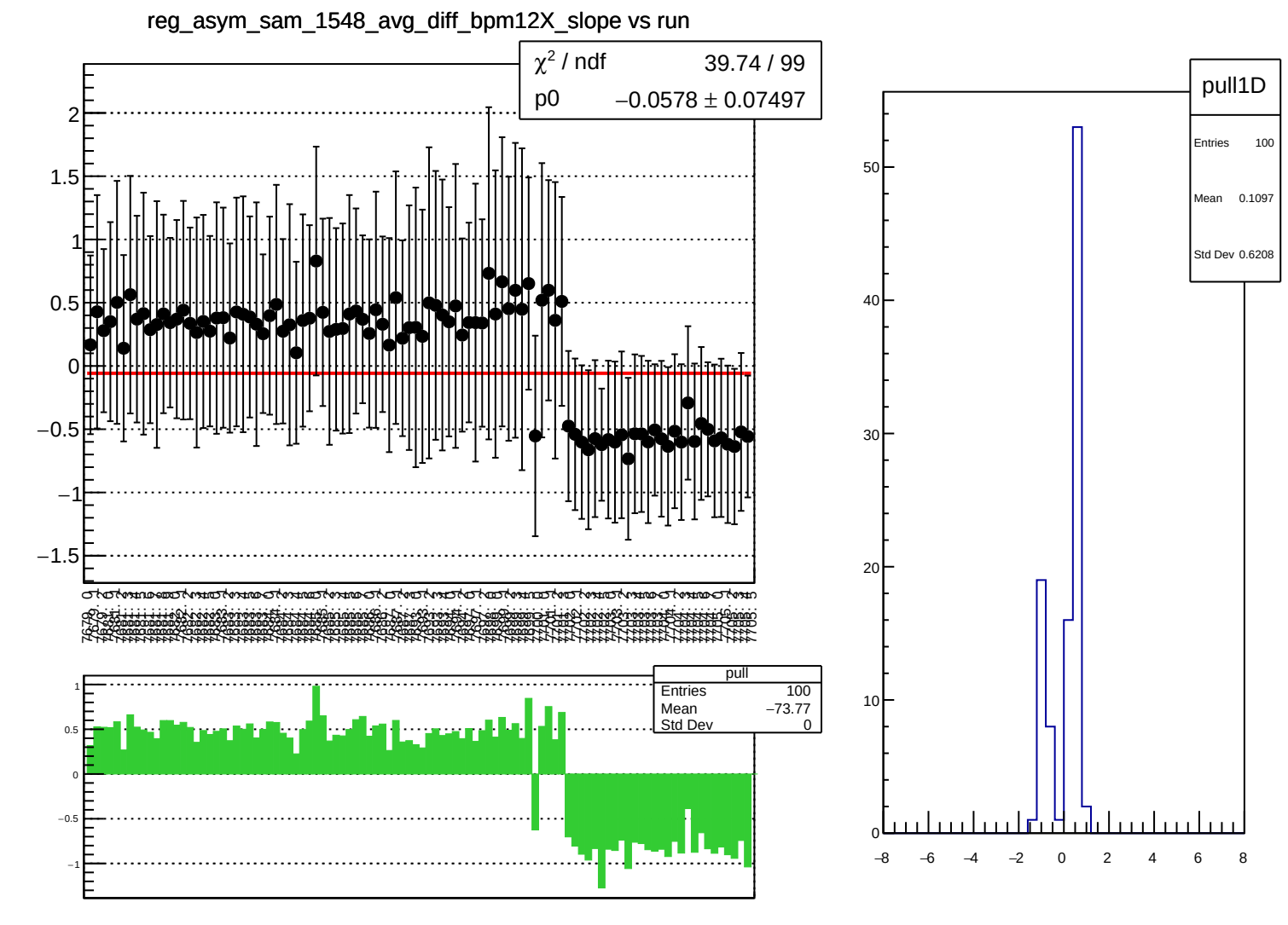

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 97.14 / 99
p0 7.753 ± 0.77
pull
Entries 100
Mean 114.5
Std Dev 0
pull1D
Entries 100
Mean −0.316
Std Dev 0.9336

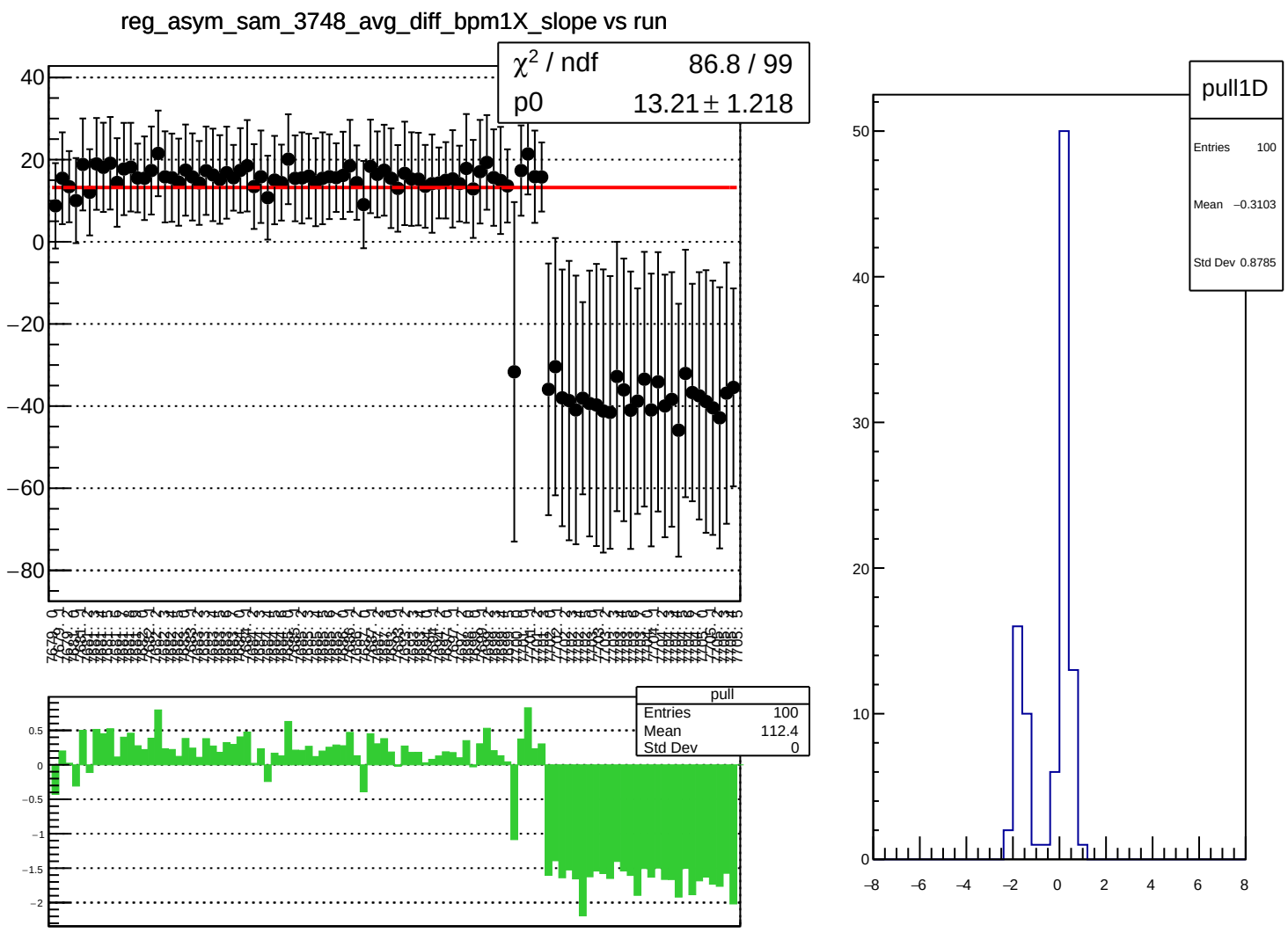

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 158 / 99
p0 −3.104 ± 1.103
pull
Entries 100
Mean 108.2
Std Dev 0
pull1D
Entries 100
Mean 0.348
Std Dev 1.208

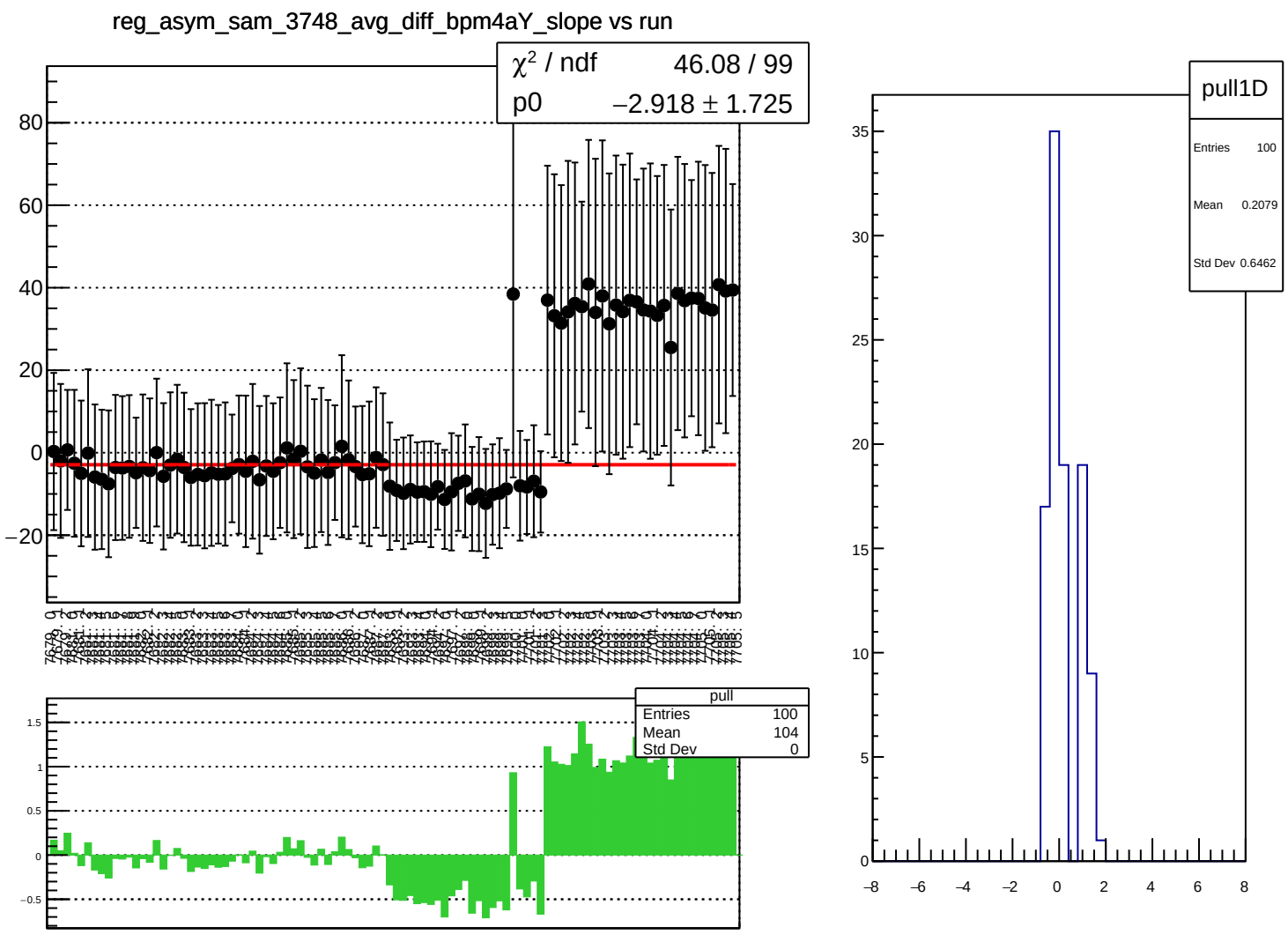

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 88.89 / 99
p0 −59.55 ± 0.6228
pull
Entries 100
Mean 110.5
Std Dev 0
pull1D
Entries 100
Mean 0.3284
Std Dev 0.8838

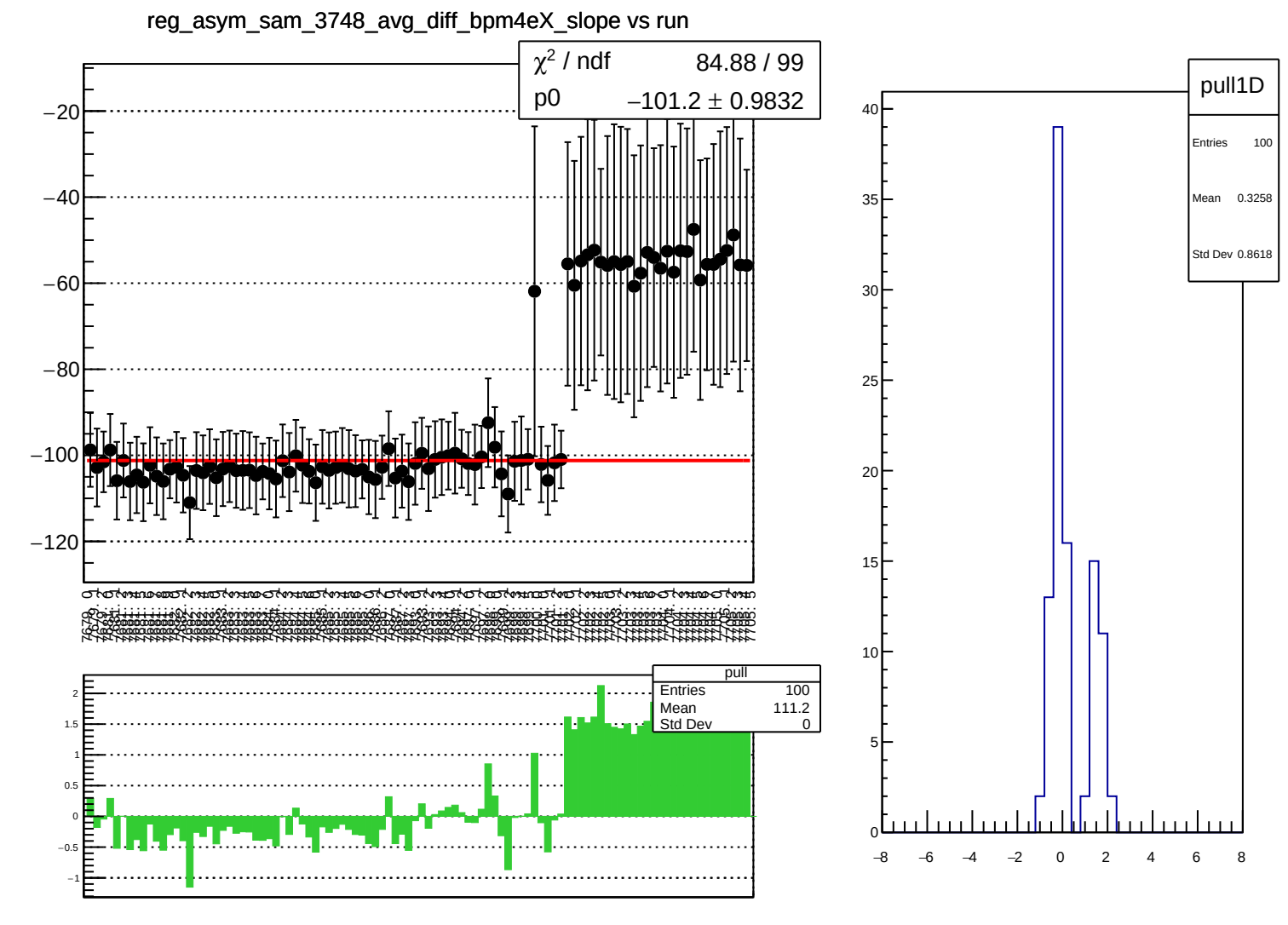

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 114 / 99
p0 78.81 ± 1.614
pull
Entries 100
Mean 137.2
Std Dev 0

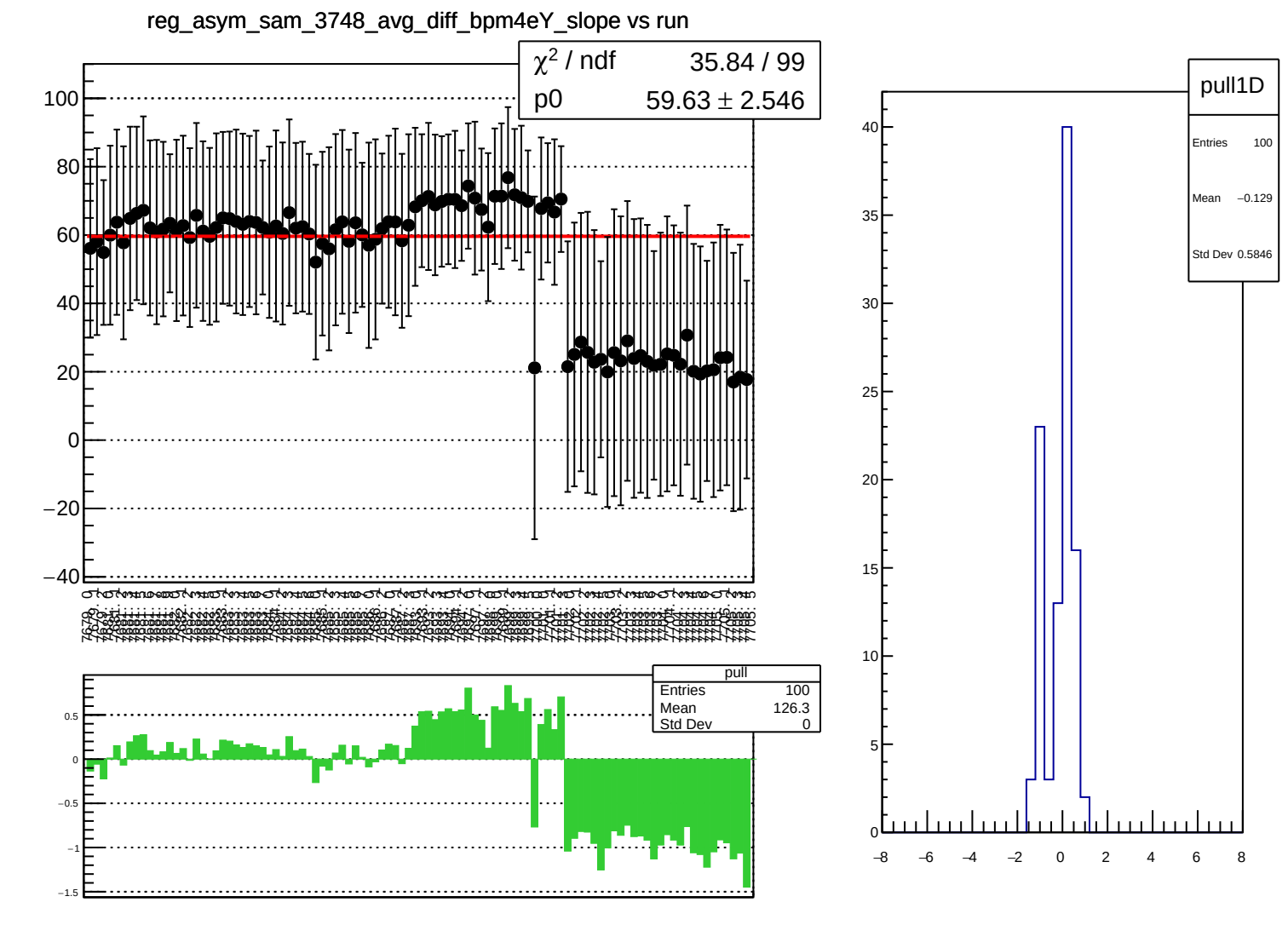

pull1D
Entries 100
Mean −0.1925
Std Dev 1.05

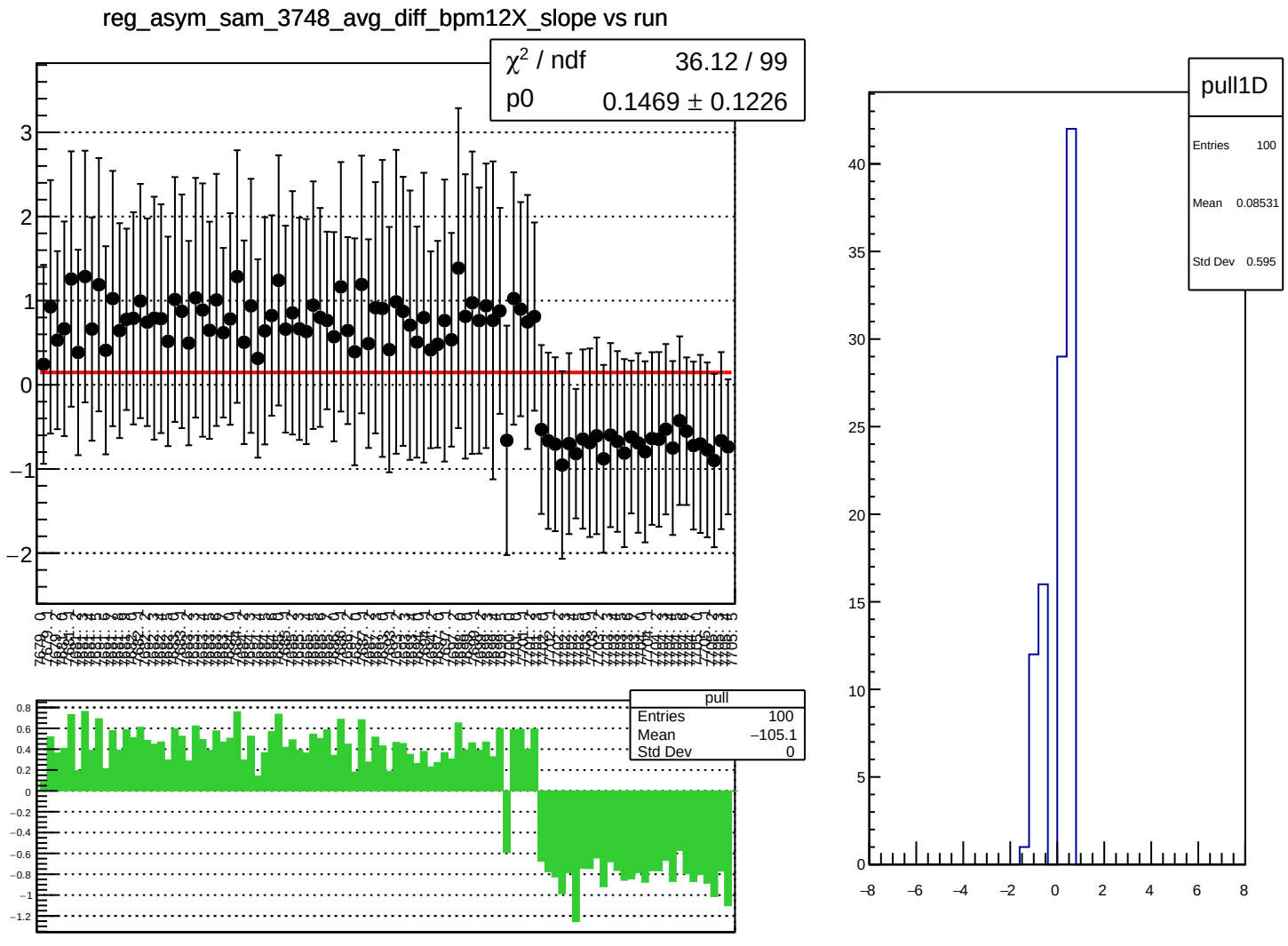

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 39.74 / 99
p0 −0.0578 ± 0.07497
pull
Entries 100
Mean −73.77
Std Dev 0
pull1D
Entries 100
Mean 0.1097
Std Dev 0.6208

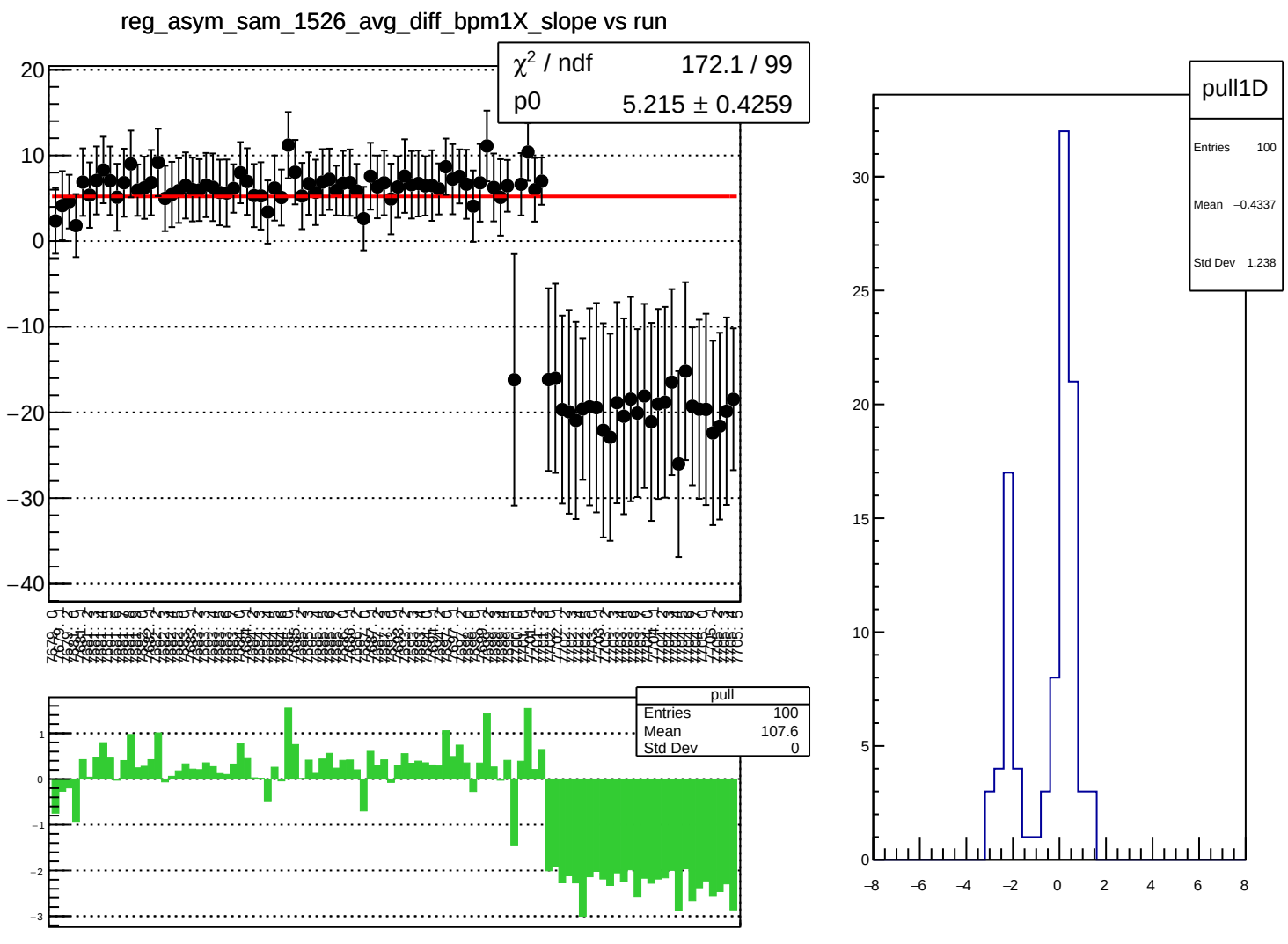

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 86.8 / 99
p0 13.21 ± 1.218
pull
Entries 100
Mean 112.4
Std Dev 0
pull1D
Entries 100
Mean −0.3103
Std Dev 0.8785

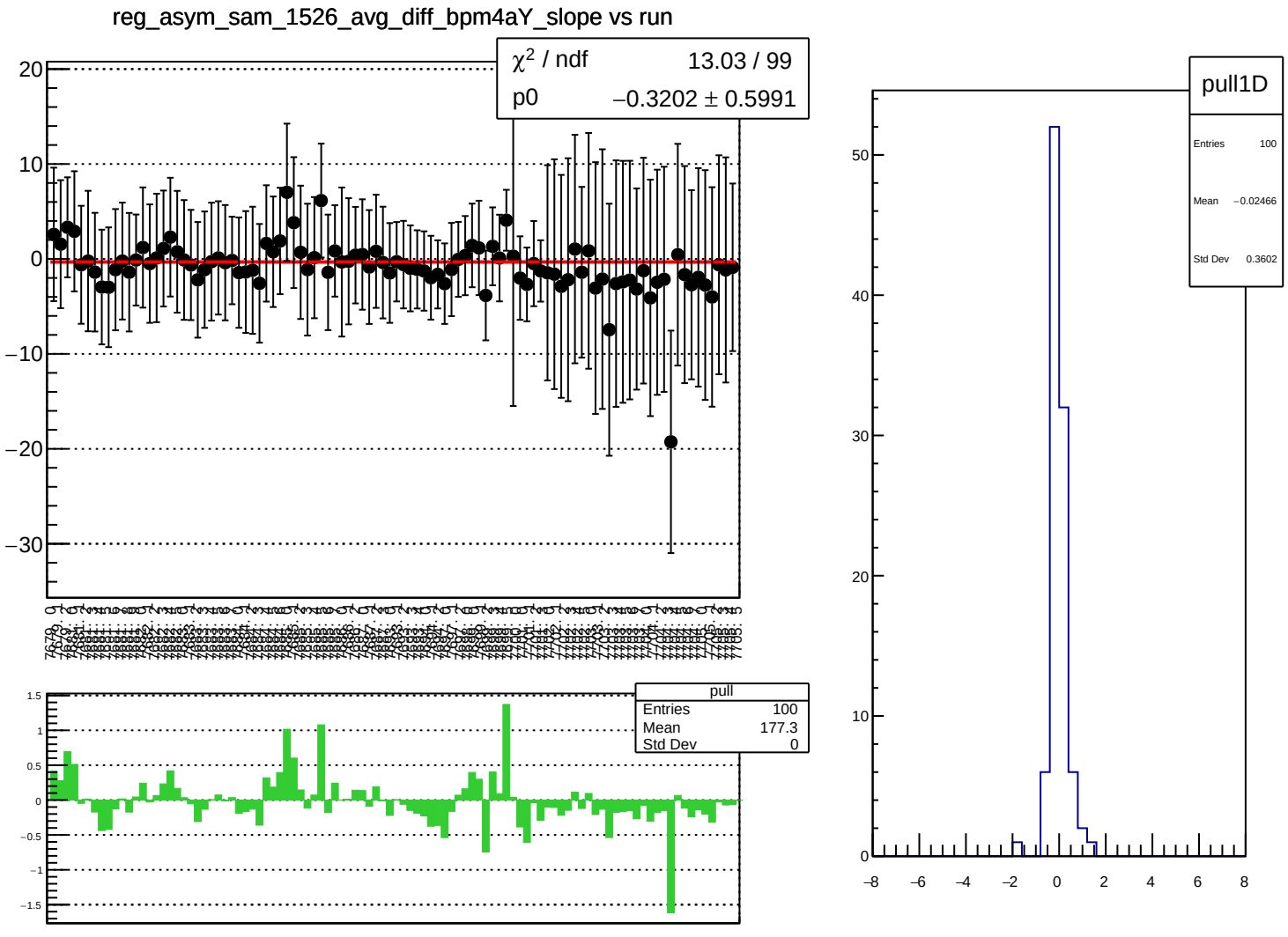

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 46.08 / 99
p0 −2.918 ± 1.725
80
60
40
20
0
−20
pull
Entries 100
Mean 104
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 100
Mean 0.2079
Std Dev 0.6462
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

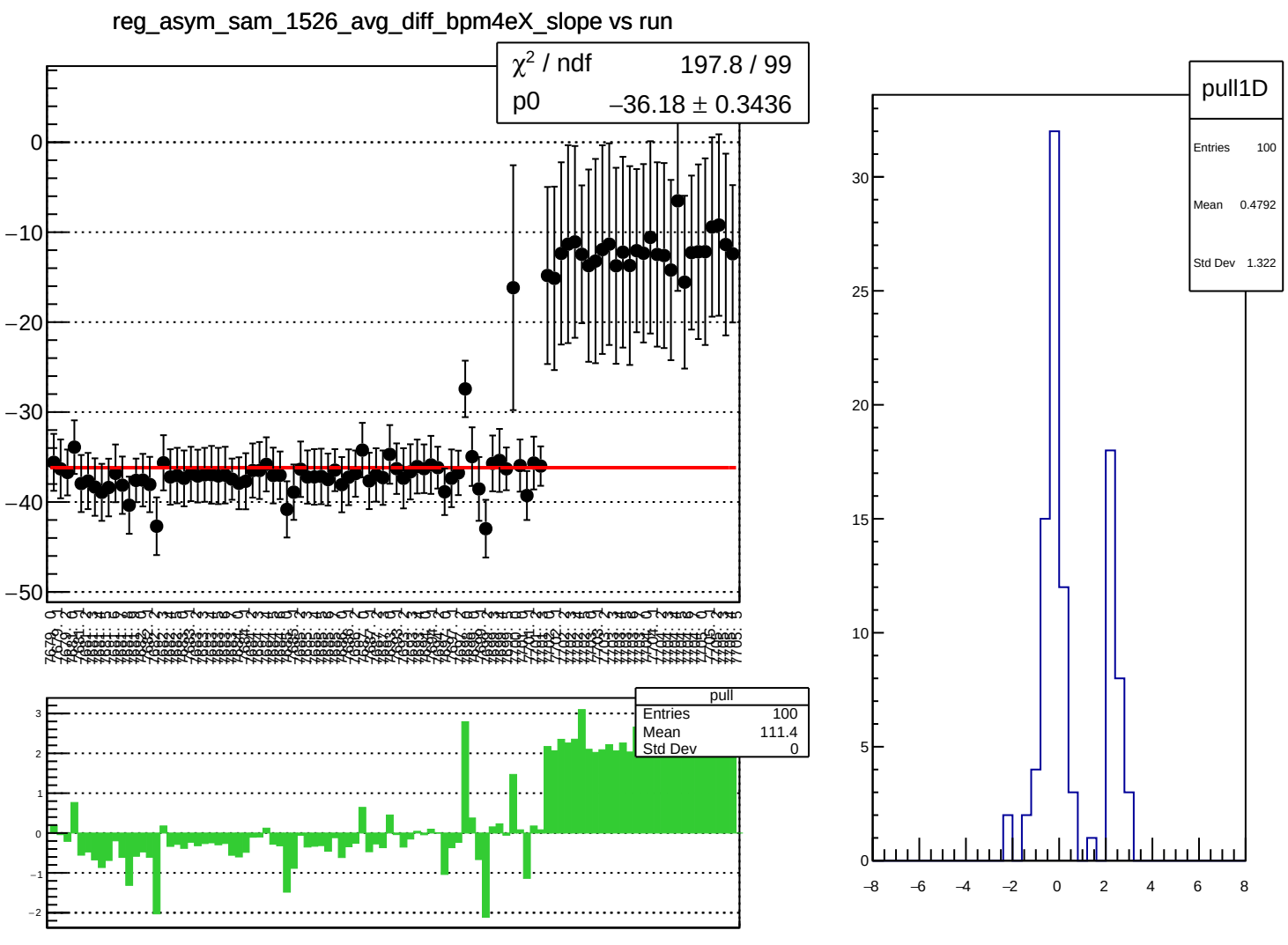

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 84.88 / 99
p0 −101.2 ± 0.9832
−20
−40
−60
−80
−100
−120
pull
Entries 100
Mean 111.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 100
Mean 0.3258
Std Dev 0.8618
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

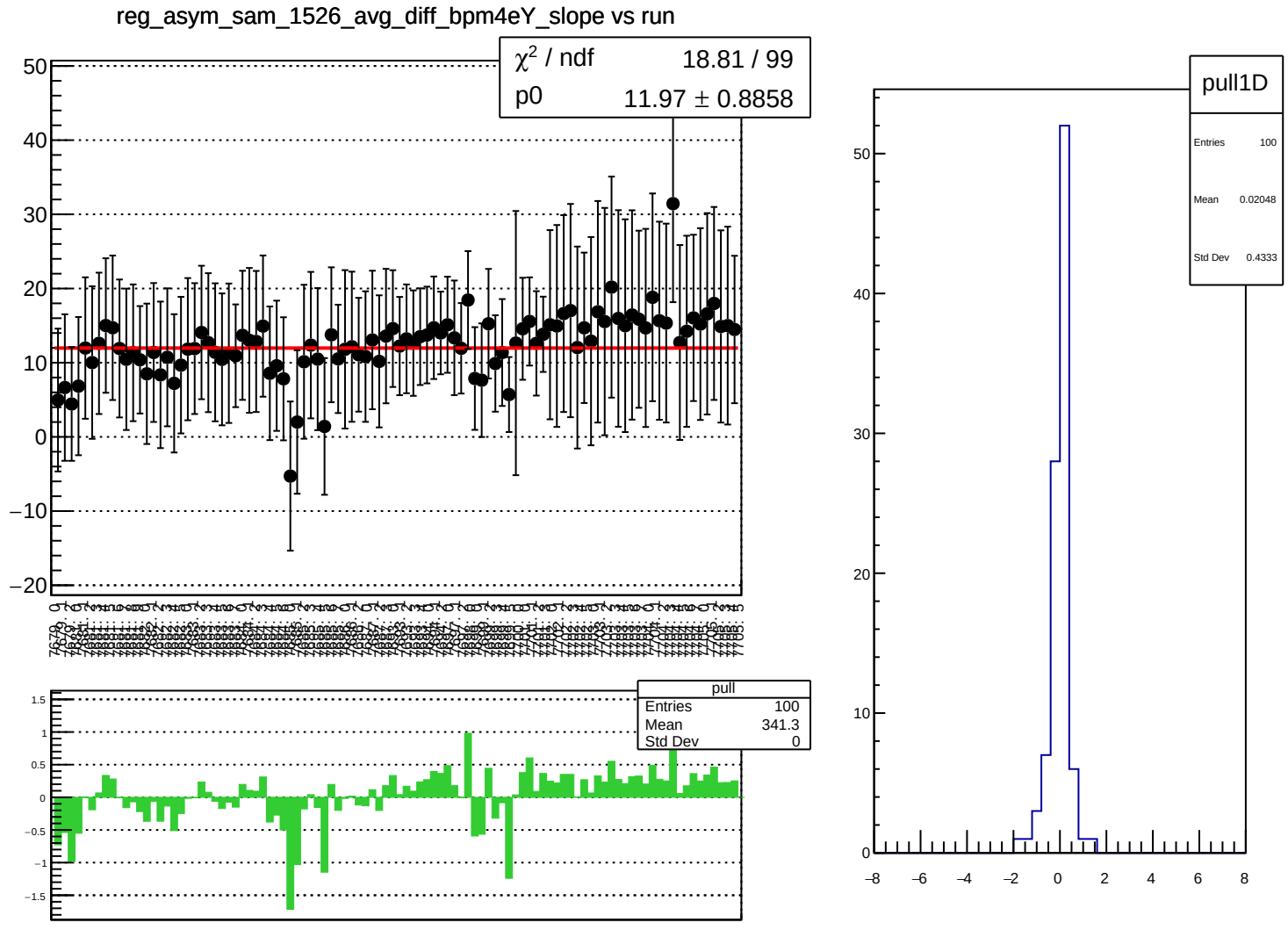

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 35.84 / 99
p0 59.63 ± 2.546
pull
Entries 100
Mean 126.3
Std Dev 0
pull1D
Entries 100
Mean −0.129
Std Dev 0.5846

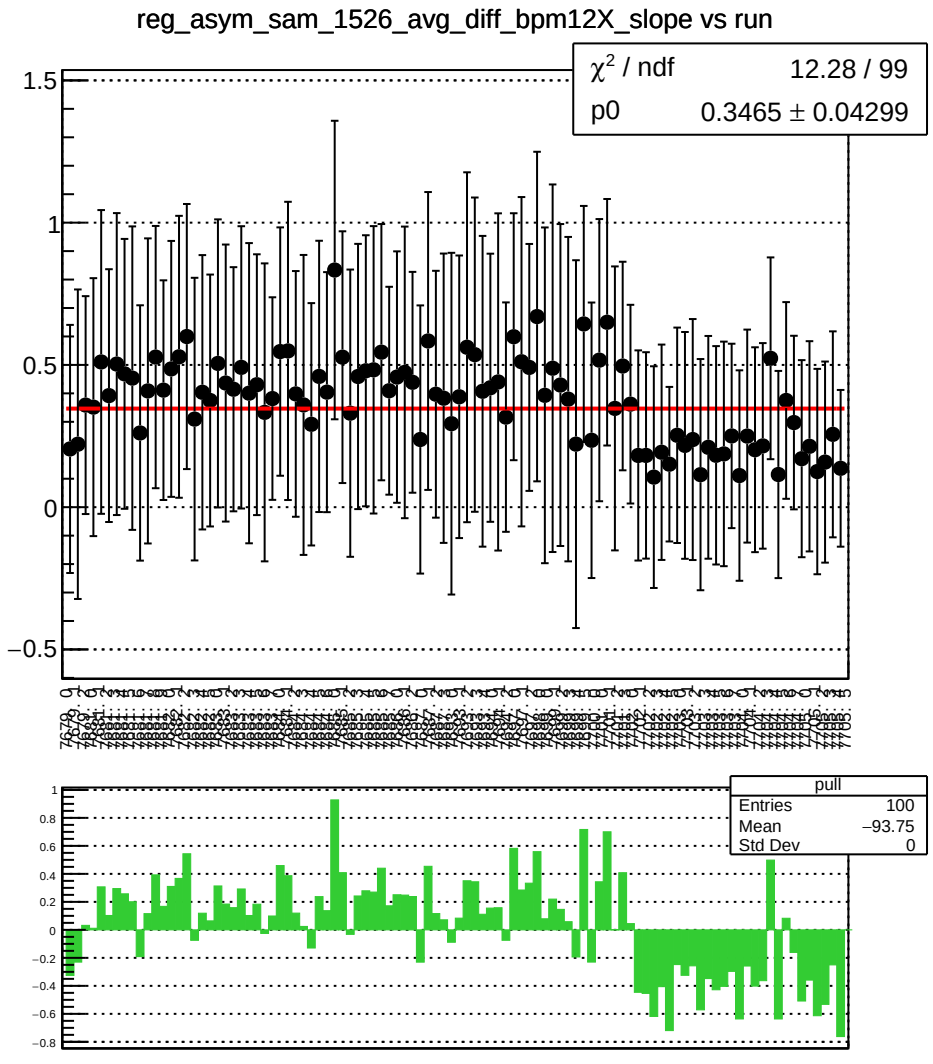

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 36.12 / 99
p0 0.1469 ± 0.1226
pull
Entries 100
Mean −105.1
Std Dev 0
pull1D
Entries 100
Mean 0.08531
Std Dev 0.595

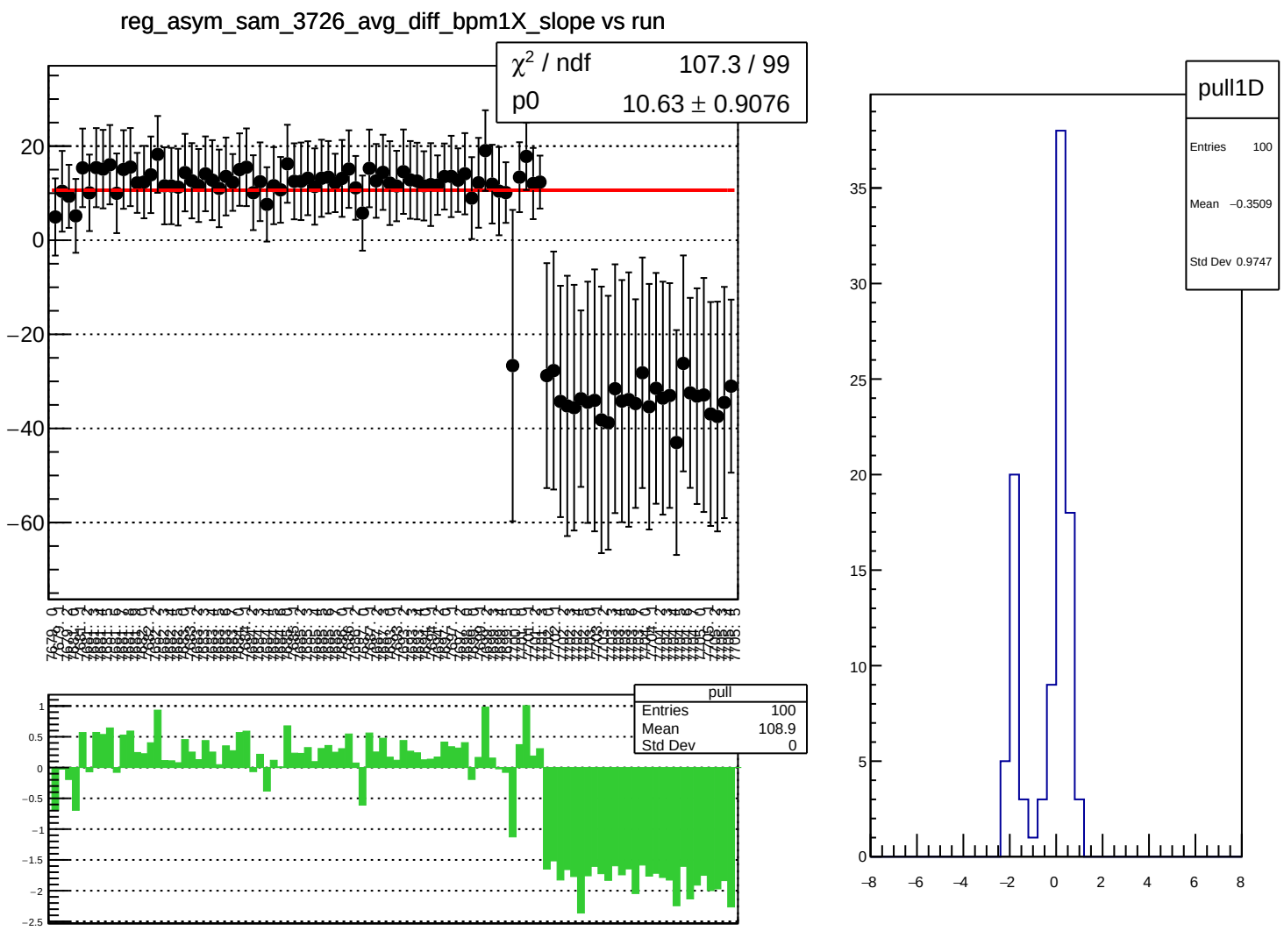

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 172.1 / 99
p0 5.215 ± 0.4259
pull
Entries 100
Mean 107.6
Std Dev 0
pull1D
Entries 100
Mean −0.4337
Std Dev 1.238

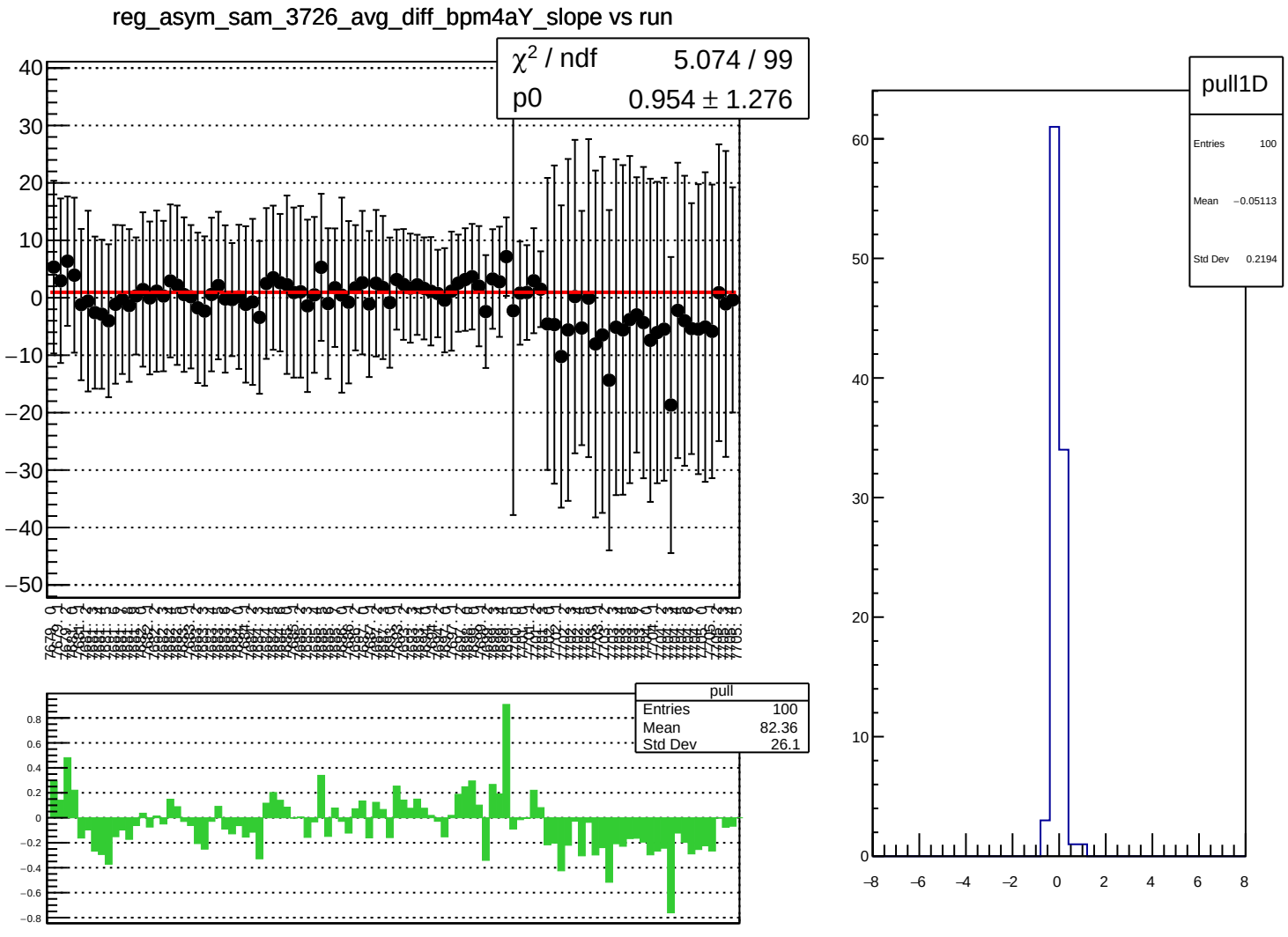

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.03 / 99
p0 −0.3202 ± 0.5991
pull
Entries 100
Mean 177.3
Std Dev 0
pull1D
Entries 100
Mean −0.02466
Std Dev 0.3602

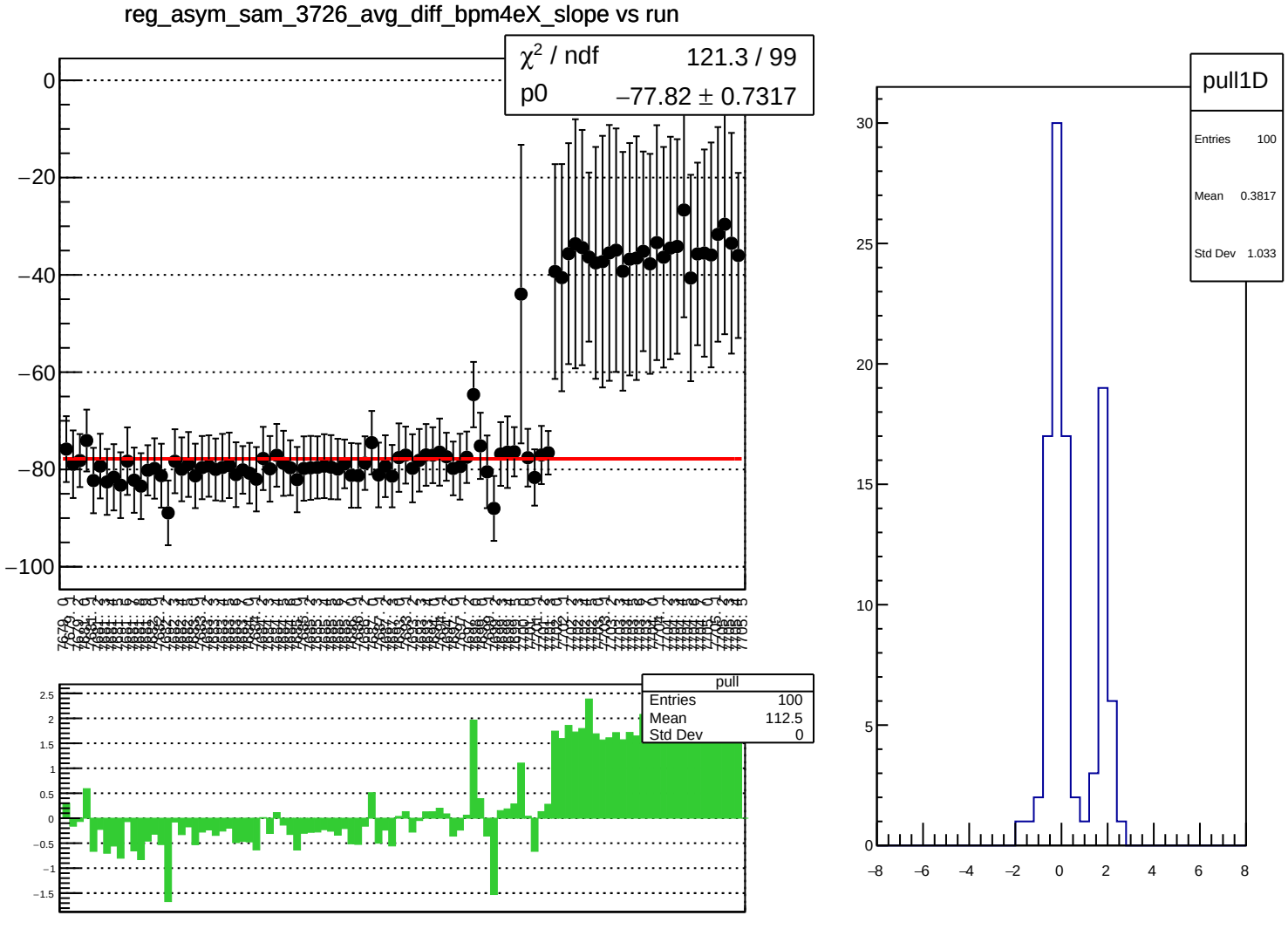

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 197.8 / 99
p0 −36.18 ± 0.3436
pull
Entries 100
Mean 111.4
Std Dev 0
pull1D
Entries 100
Mean 0.4792
Std Dev 1.322

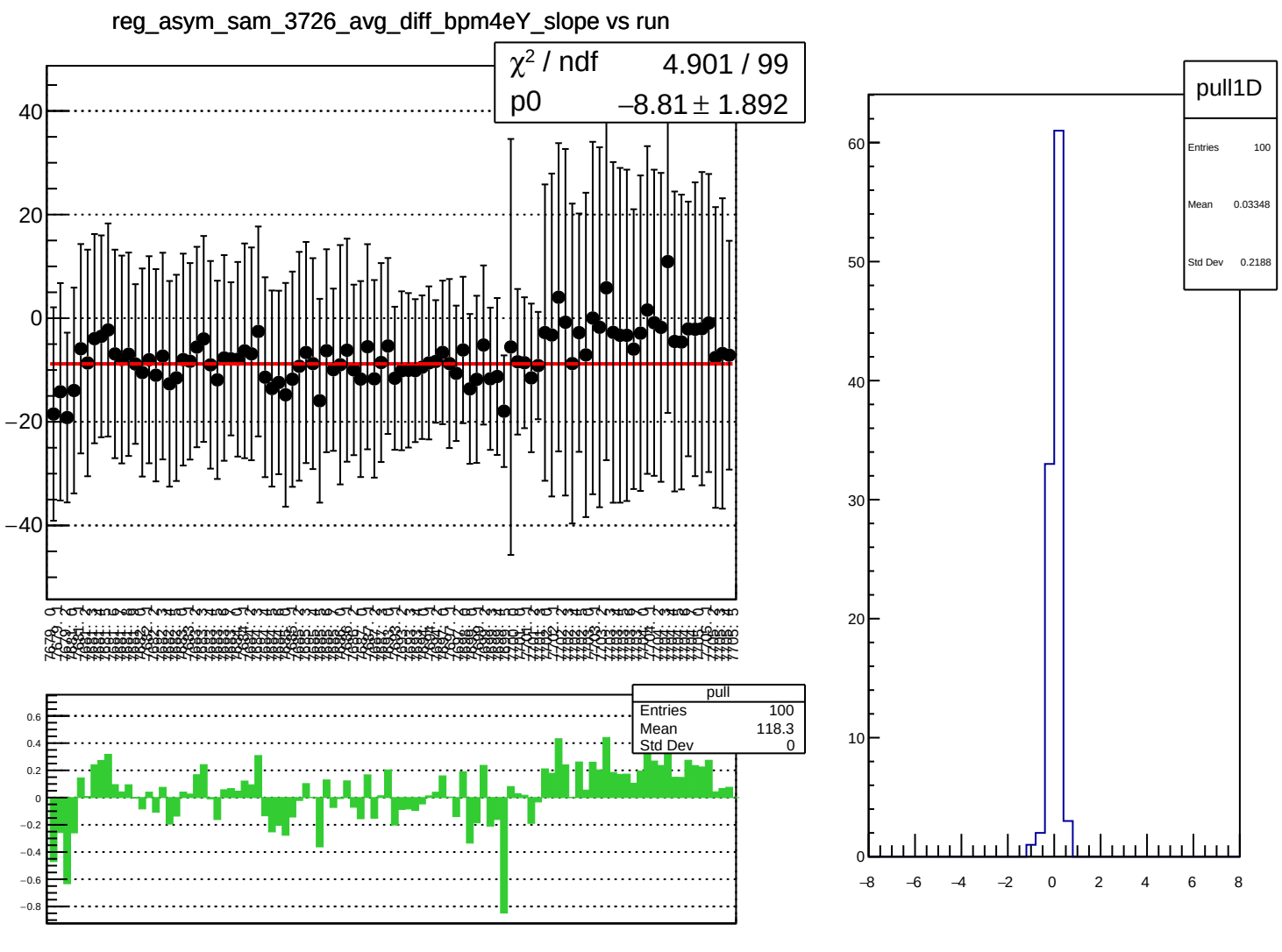

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 18.81 / 99
p0 11.97 ± 0.8858
pull
Entries 100
Mean 341.3
Std Dev 0
pull1D
Entries 100
Mean 0.02048
Std Dev 0.4333

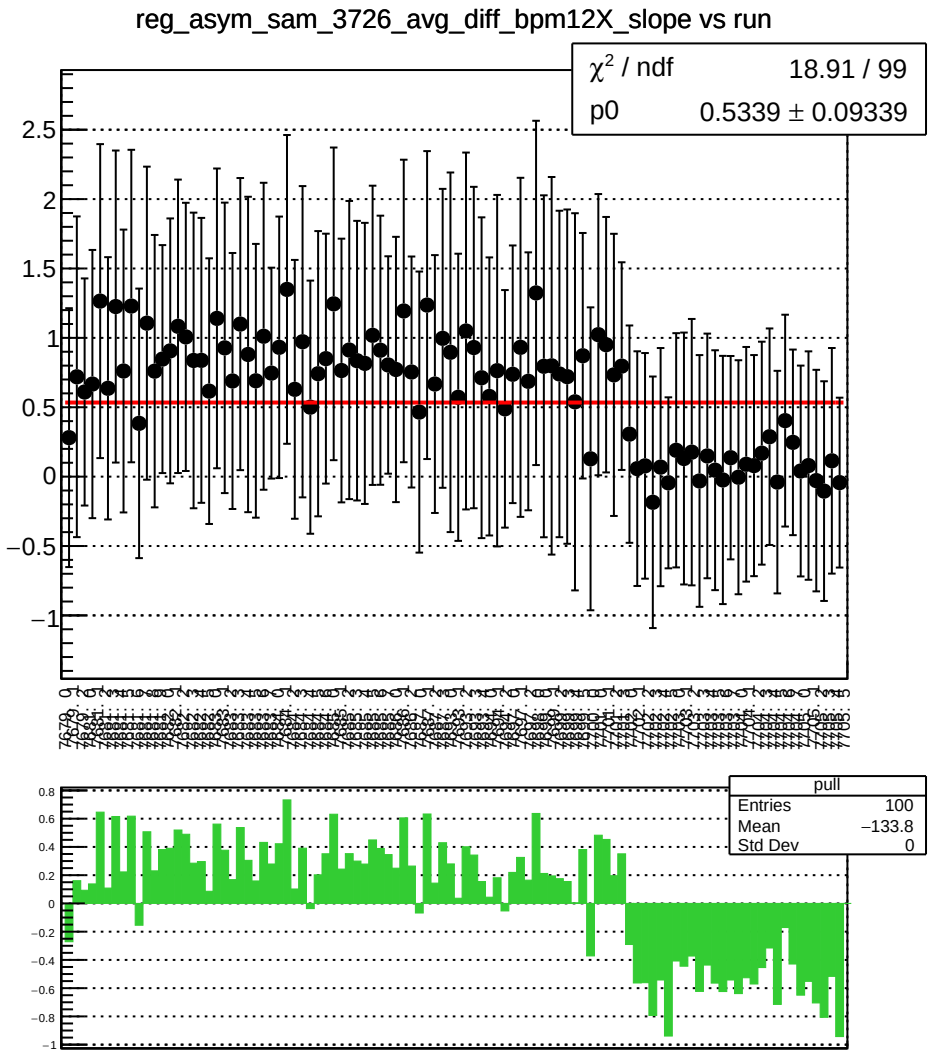

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 12.28 / 99
p0 0.3465 ± 0.04299
pull
Entries 100
Mean −93.75
Std Dev 0
pull1D
Entries 100
Mean 0.03536
Std Dev 0.3486

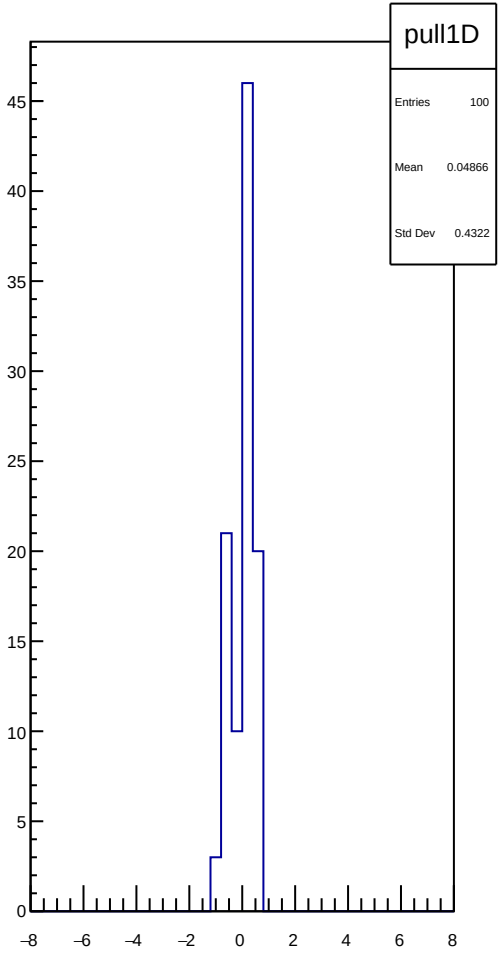

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 107.3 / 99
p0 10.63 ± 0.9076
20
0
−20
−40
−60
pull
Entries 100
Mean 108.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 100
Mean −0.3509
Std Dev 0.9747
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

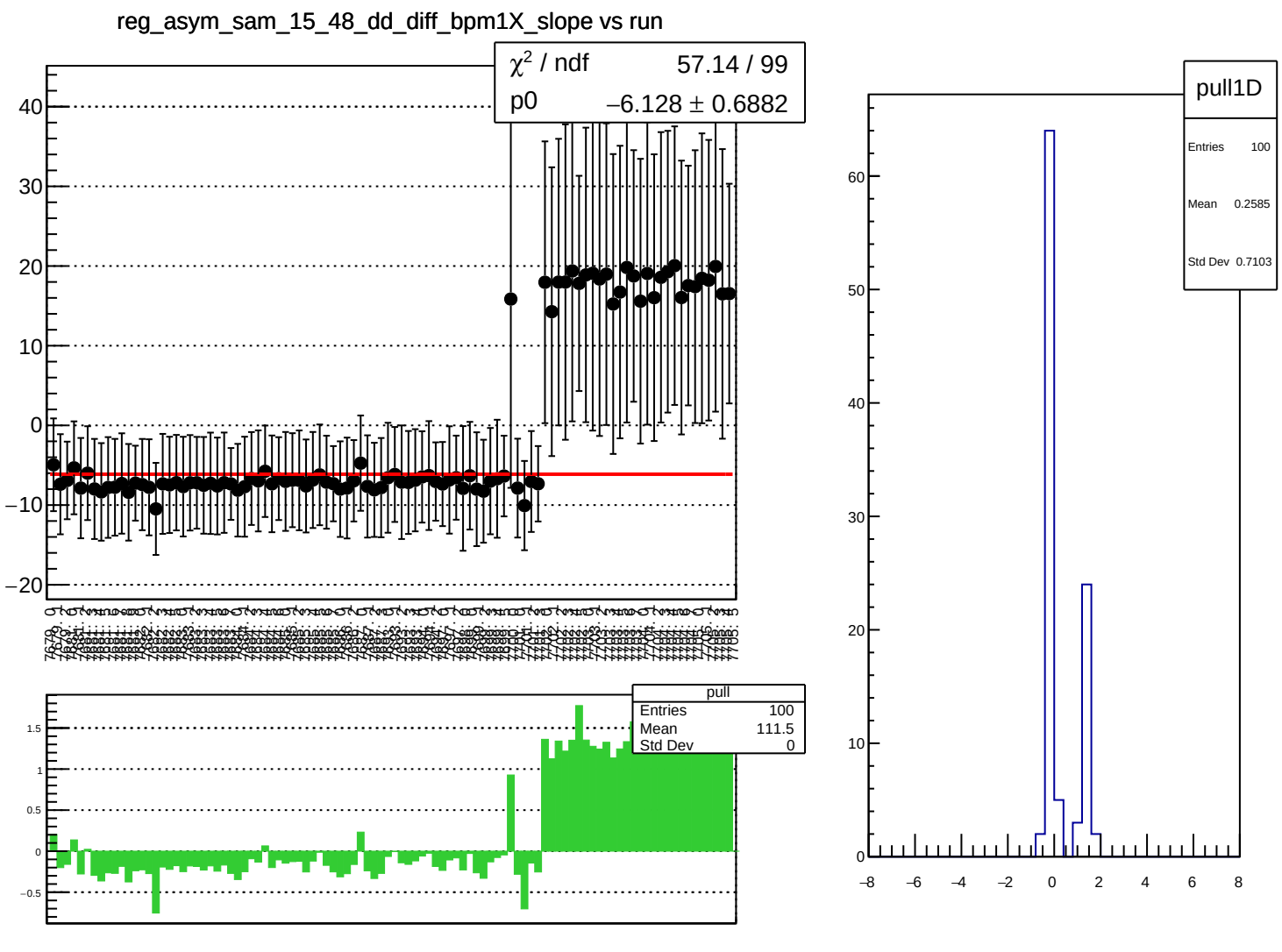

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.074 / 99
p0 0.954 ± 1.276
pull
Entries 100
Mean 82.36
Std Dev 26.1
pull1D
Entries 100
Mean −0.05113
Std Dev 0.2194

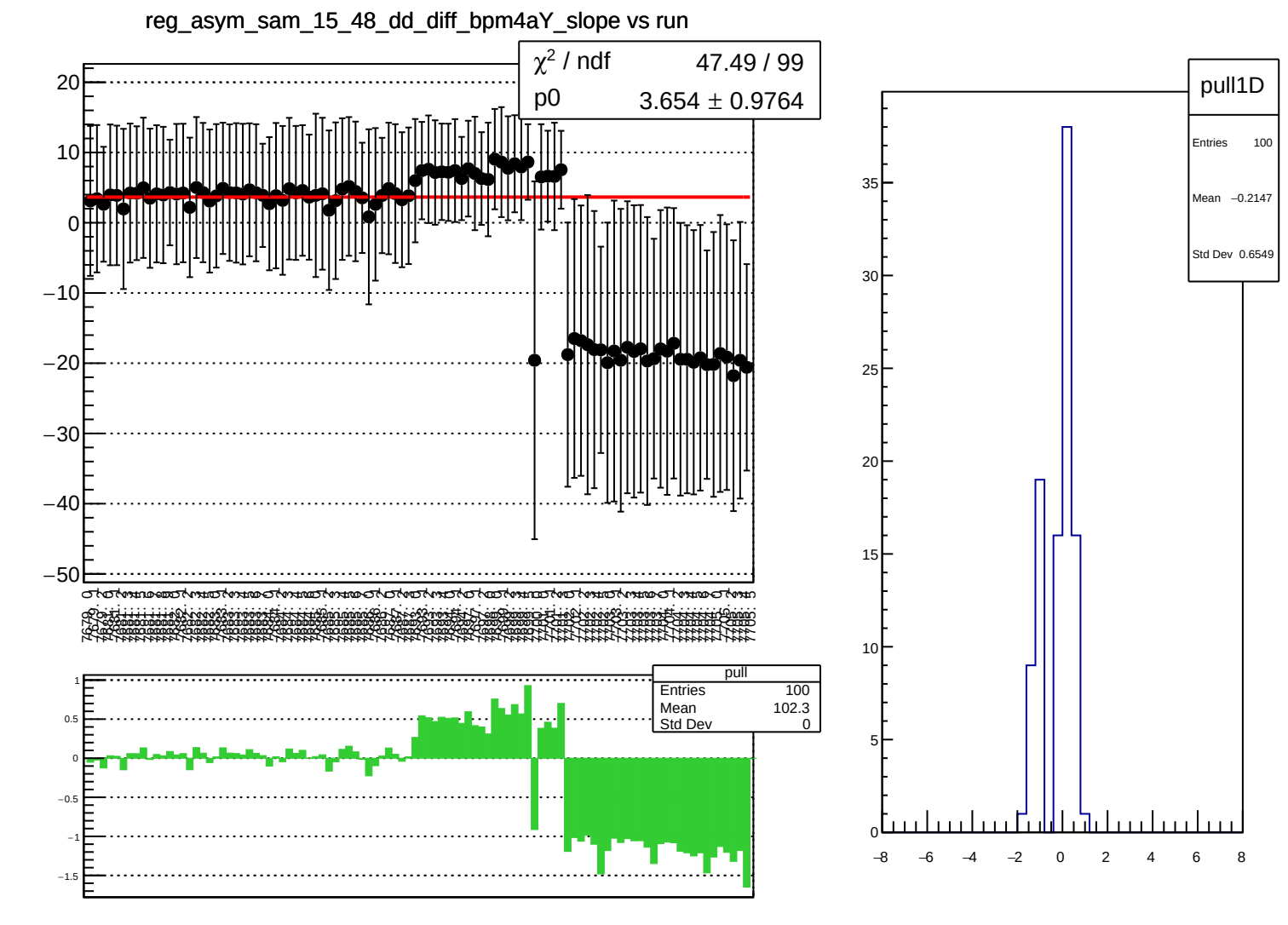

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 121.3 / 99
p0 −77.82 ± 0.7317
0
−20
−40
−60
−80
−100
pull
Entries 100
Mean 112.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 100
Mean 0.3817
Std Dev 1.033
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

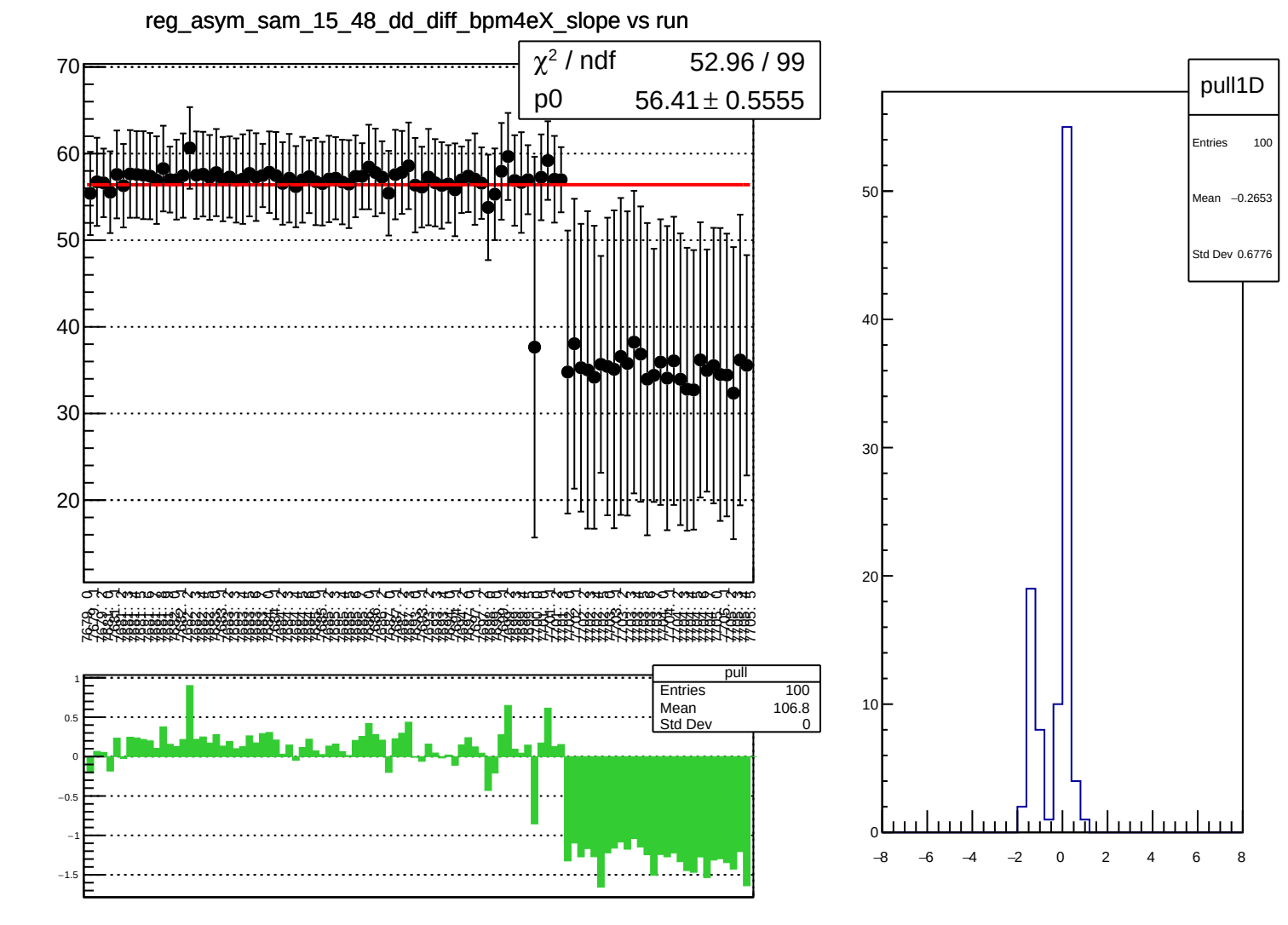

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.901 / 99
p0 −8.81 ± 1.892
pull
Entries 100
Mean 118.3
Std Dev 0
pull1D
Entries 100
Mean 0.03348
Std Dev 0.2188

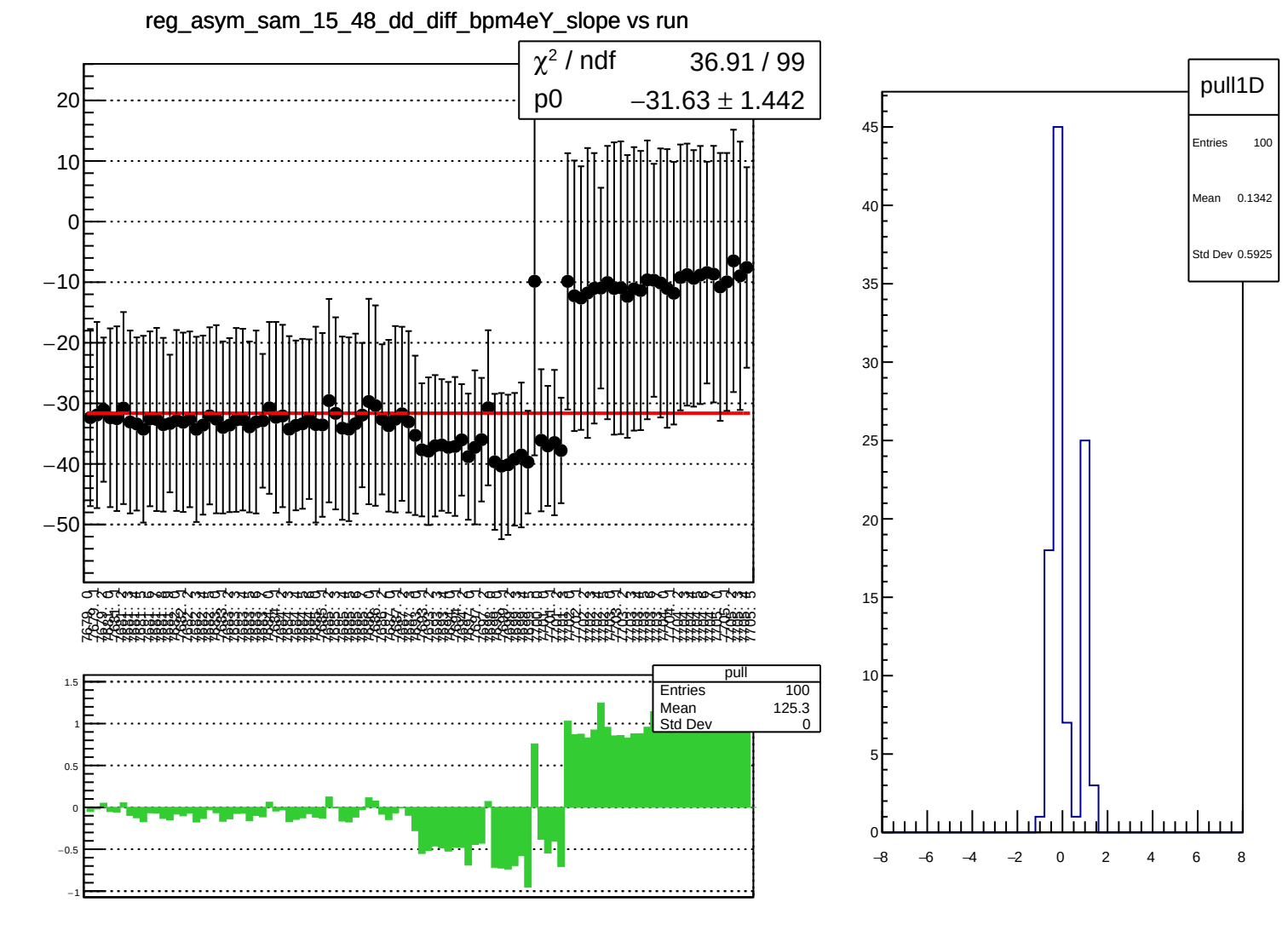

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 18.91 / 99
p0 0.5339 ± 0.09339
pull
Entries 100
Mean −133.8
Std Dev 0

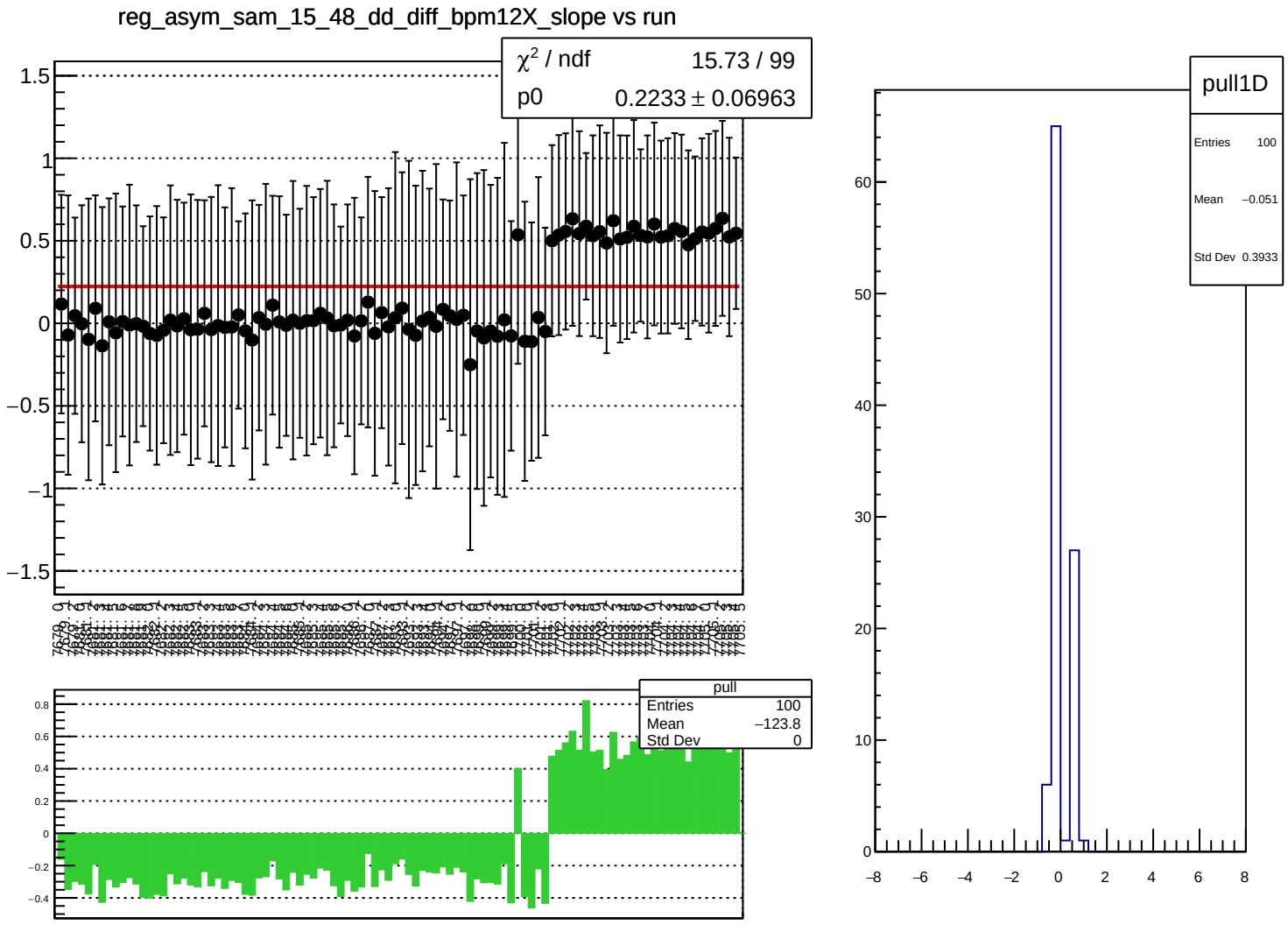

pull1D
Entries 100
Mean 0.04866
Std Dev 0.4322

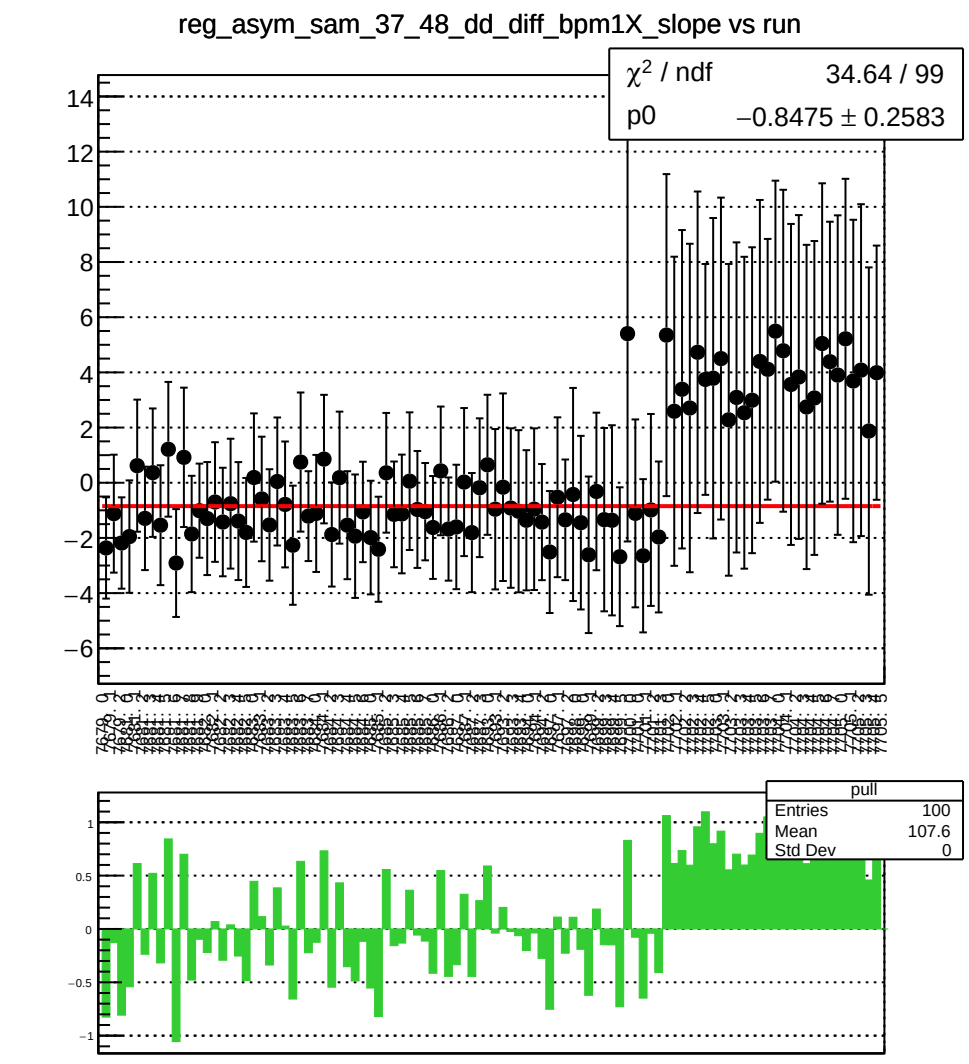

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 57.14 / 99
p0 −6.128 ± 0.6882
pull
Entries 100
Mean 111.5
Std Dev 0
pull1D
Entries 100
Mean 0.2585
Std Dev 0.7103

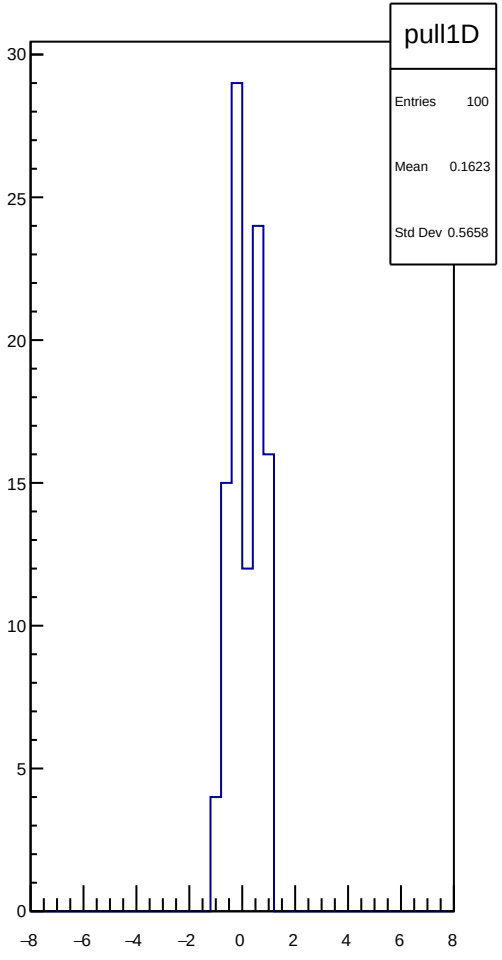

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 47.49 / 99
p0 3.654 ± 0.9764
pull
Entries 100
Mean 102.3
Std Dev 0
pull1D
Entries 100
Mean −0.2147
Std Dev 0.6549

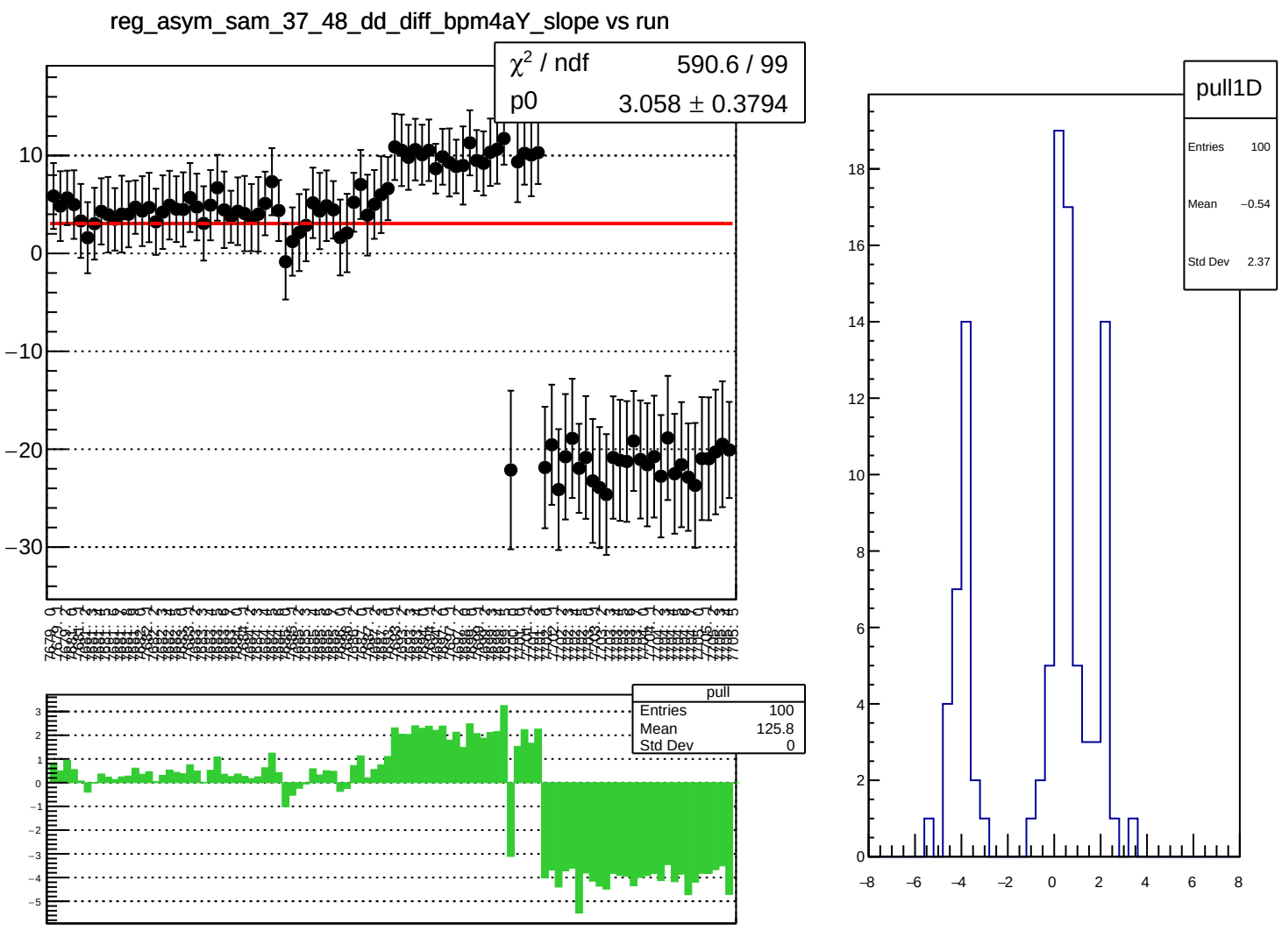

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 52.96 / 99
p0 56.41 ± 0.5555
pull
Entries 100
Mean 106.8
Std Dev 0
pull1D
Entries 100
Mean −0.2653
Std Dev 0.6776

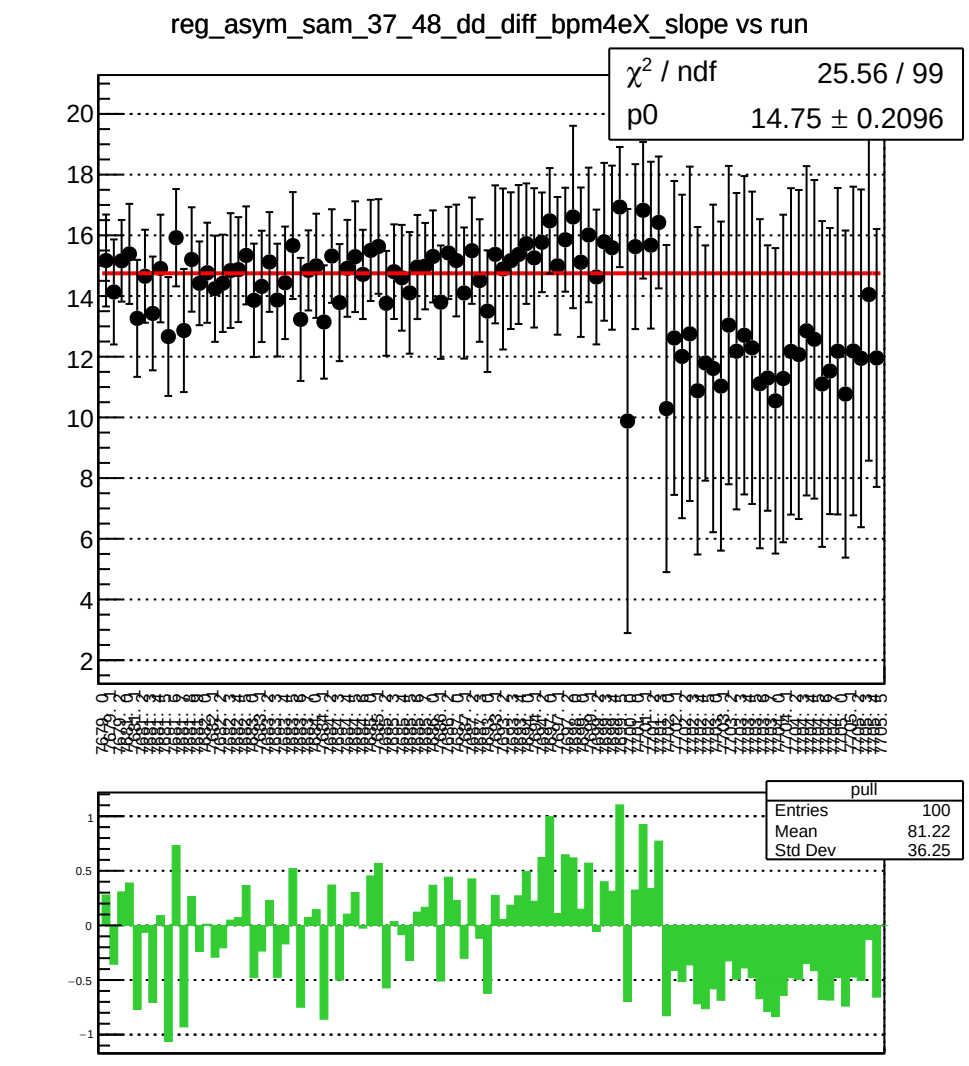

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.91 / 99
p0 −31.63 ± 1.442
pull
Entries 100
Mean 125.3
Std Dev 0
pull1D
Entries 100
Mean 0.1342
Std Dev 0.5925

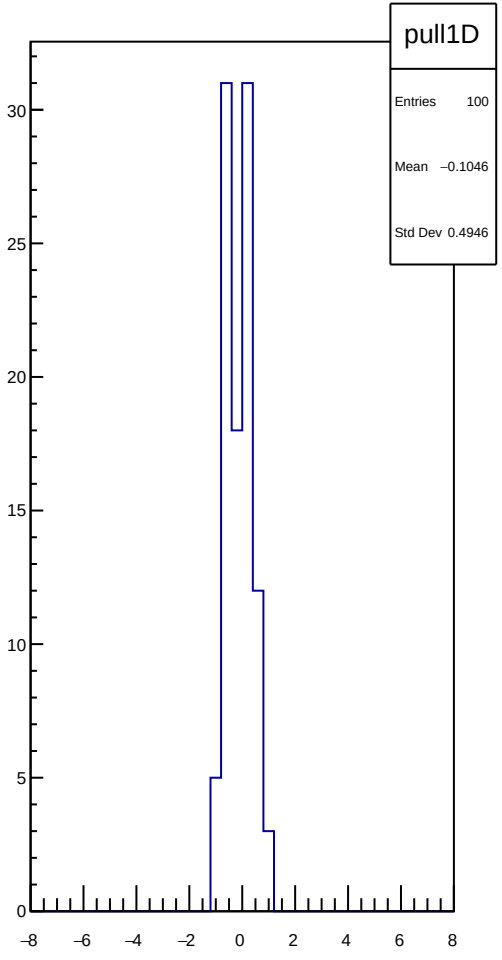

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 15.73 / 99
p0 0.2233 ± 0.06963
pull
Entries 100
Mean −123.8
Std Dev 0
pull1D
Entries 100
Mean −0.051
Std Dev 0.3933

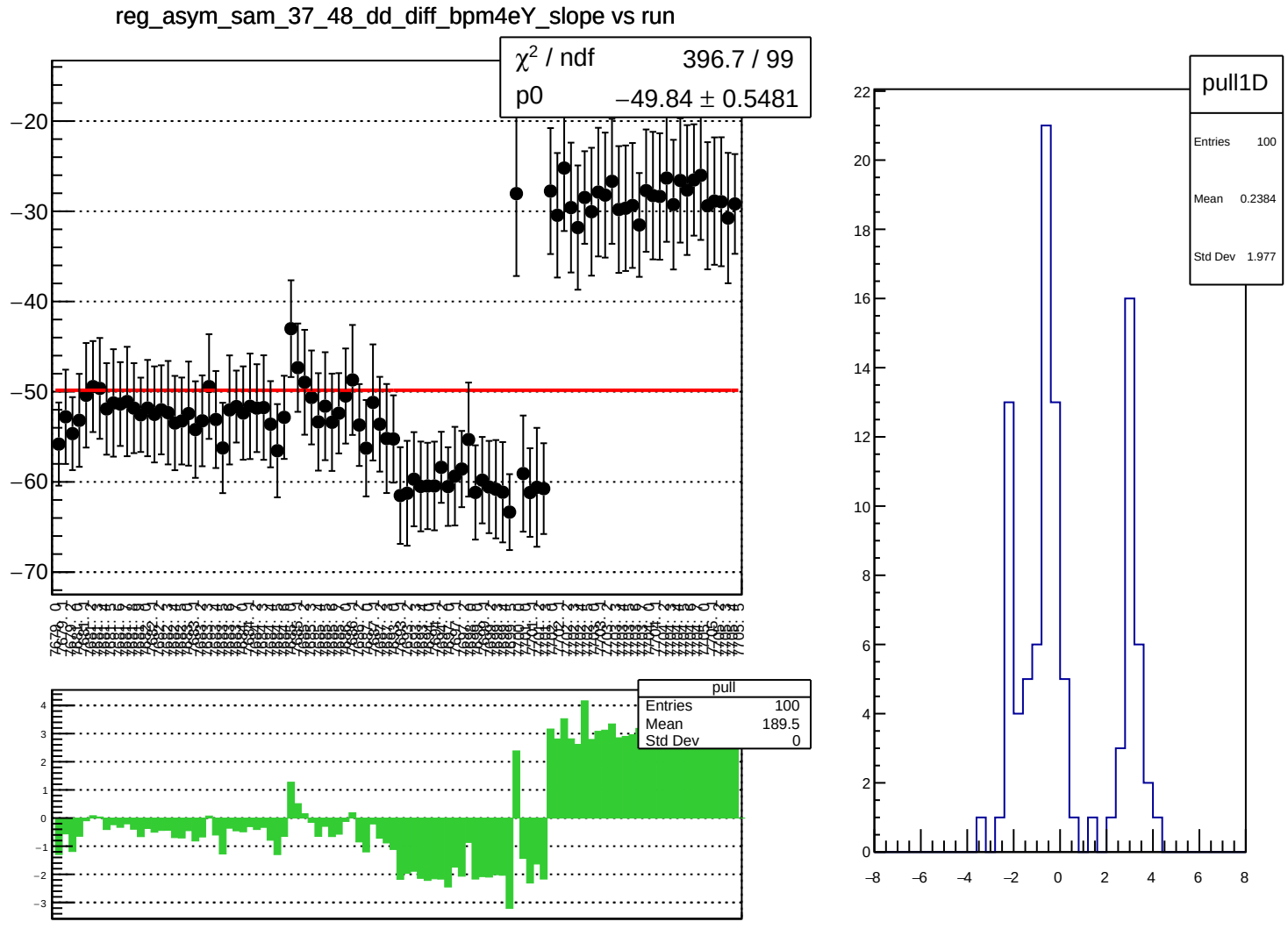

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 34.64 / 99
p0 −0.8475 ± 0.2583
pull
Entries 100
Mean 107.6
Std Dev 0

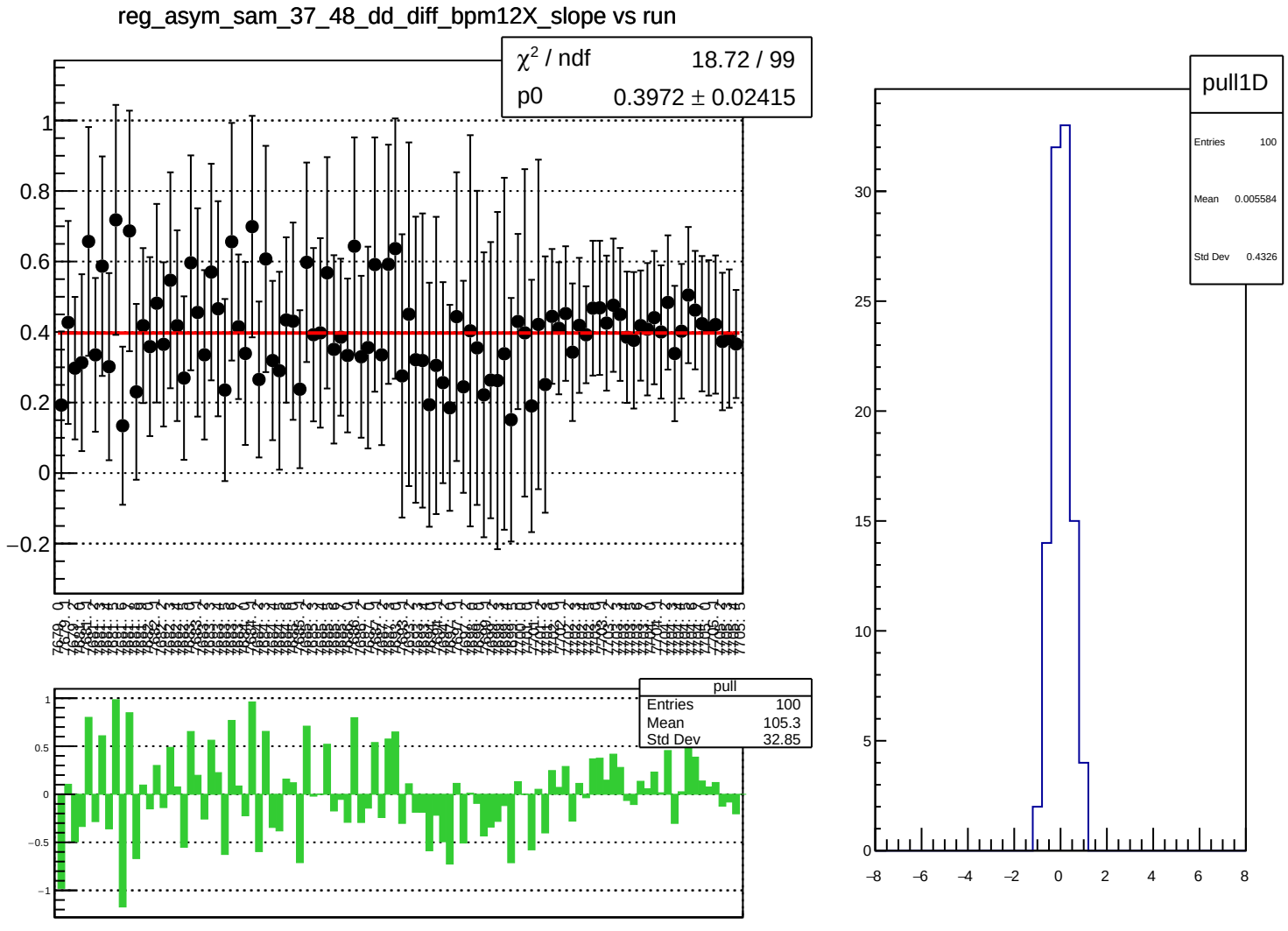

pull1D
Entries 100
Mean 0.1623
Std Dev 0.5658

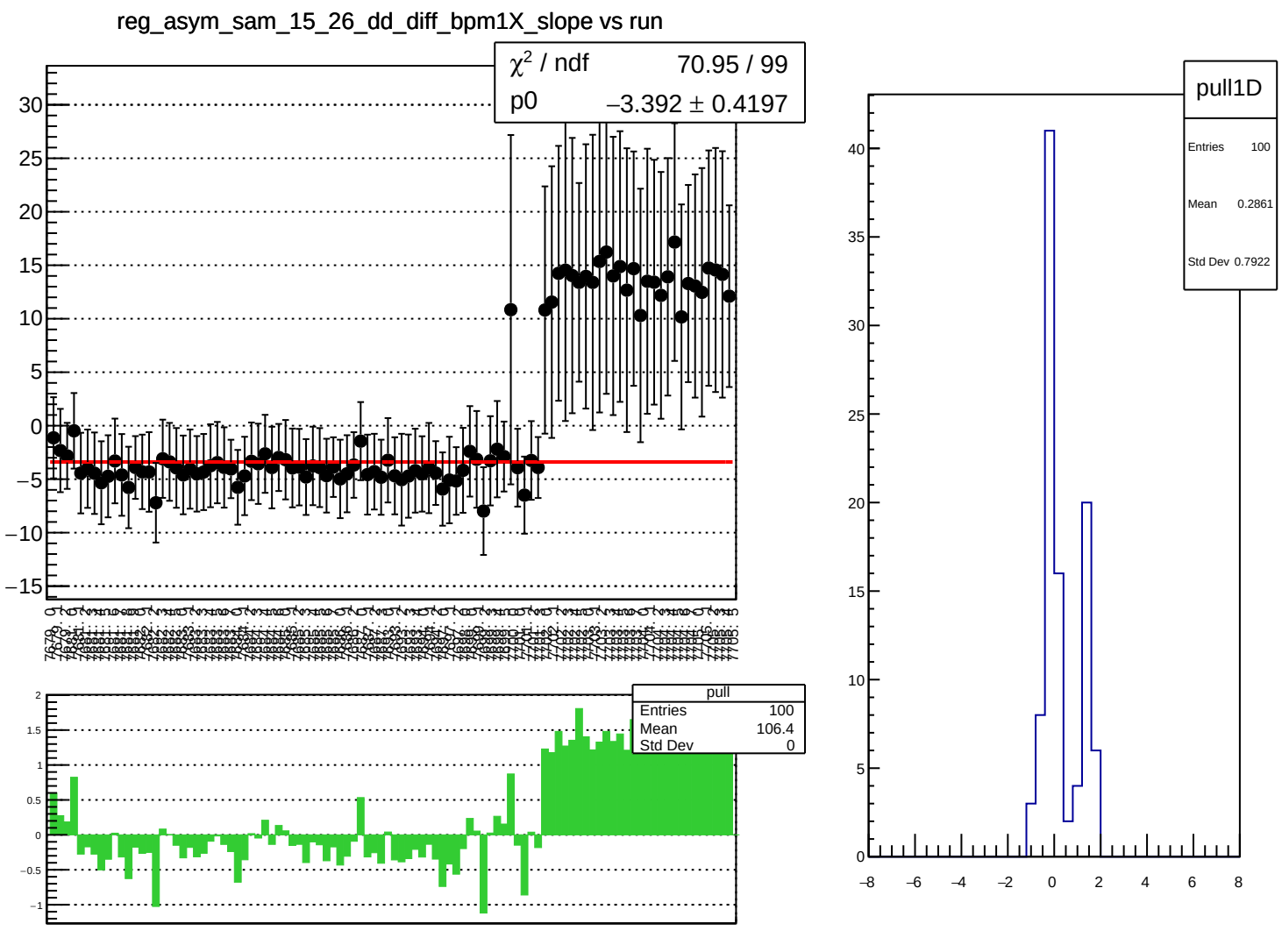

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 590.6 / 99
p0 3.058 ± 0.3794
10
0
−10
−20
−30
pull
Entries 100
Mean 125.8
Std Dev 0
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 100
Mean −0.54
Std Dev 2.37
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

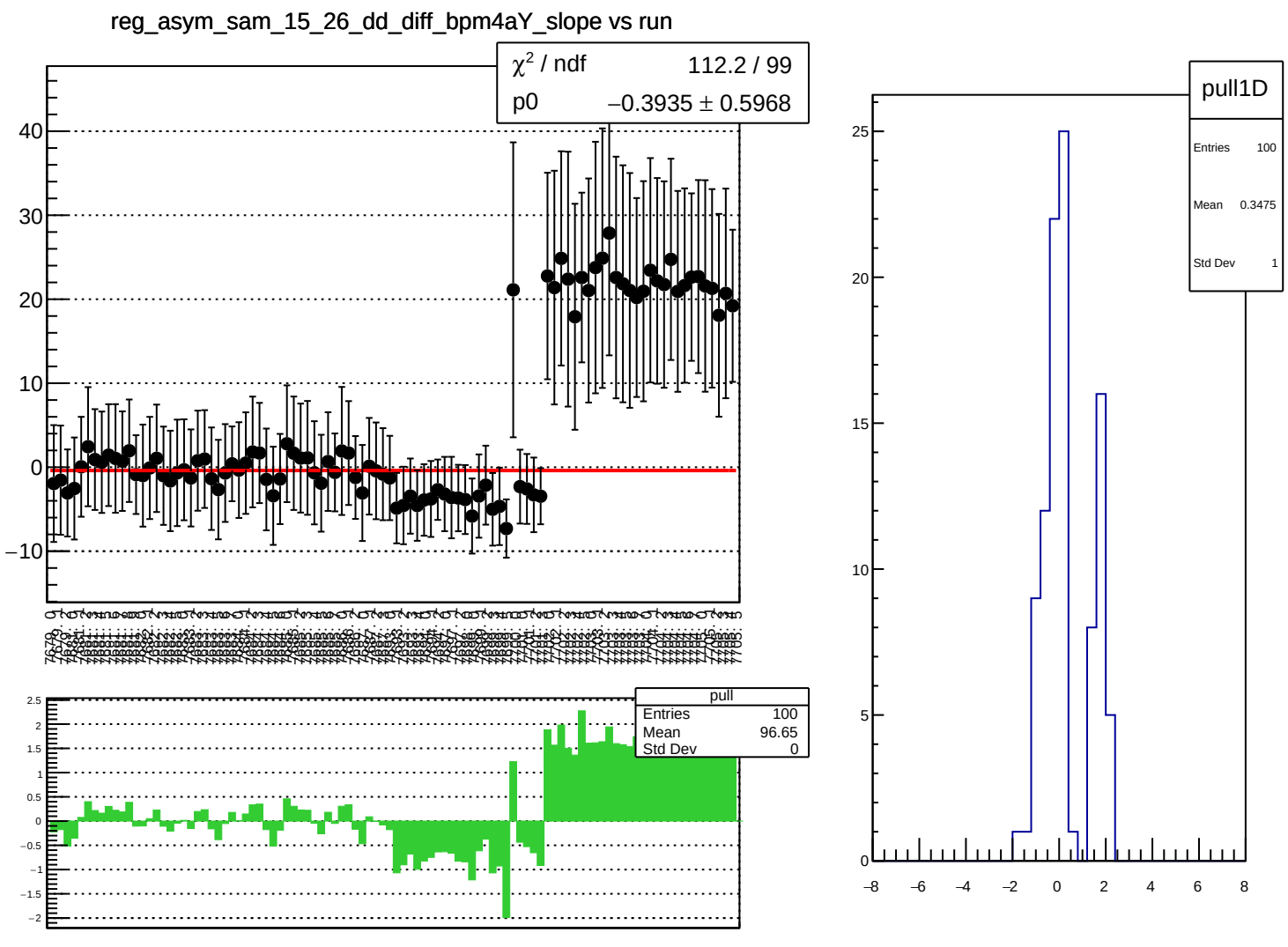

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 25.56 / 99
p0 14.75 ± 0.2096
pull
Entries 100
Mean 81.22
Std Dev 36.25

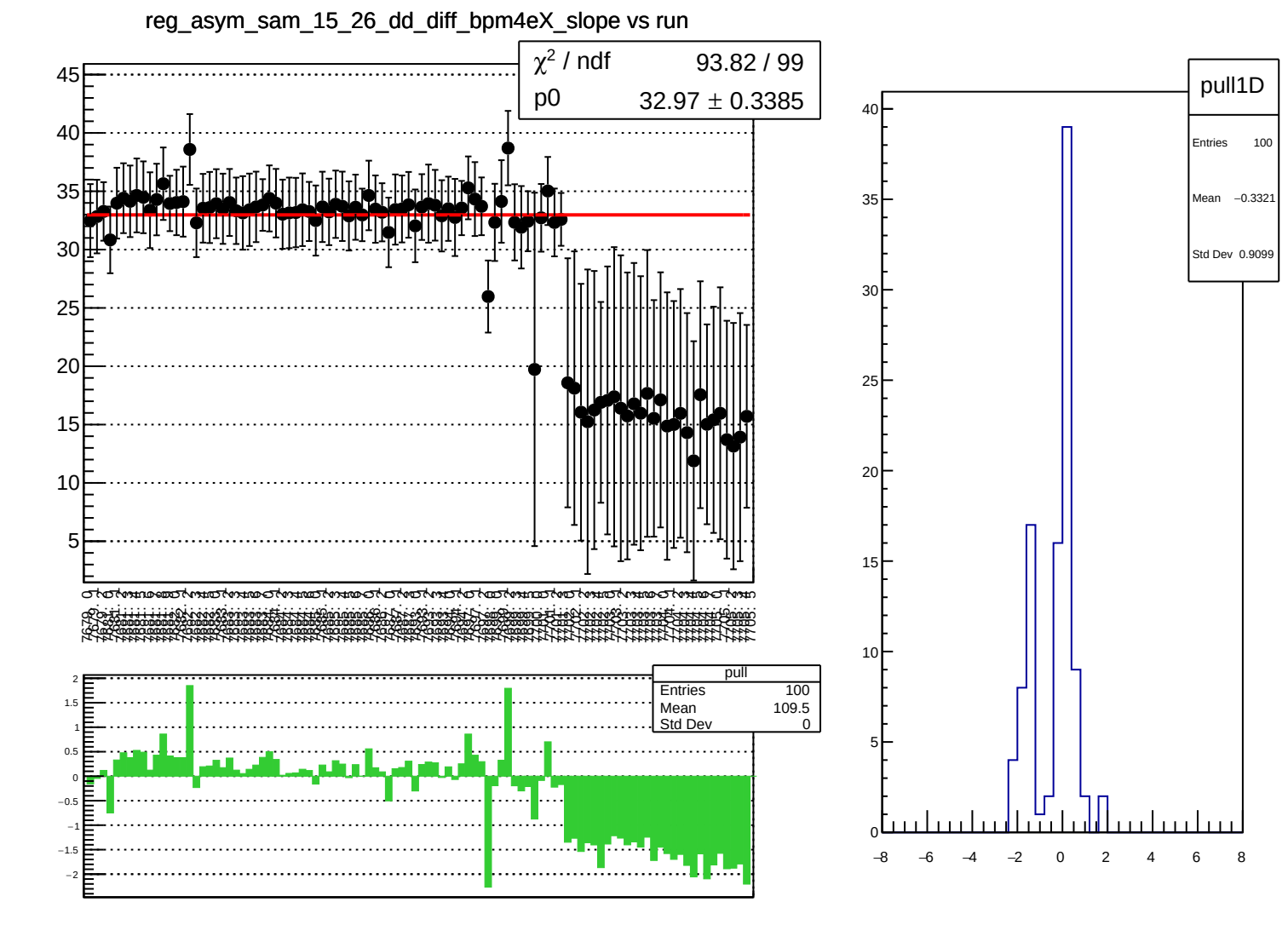

pull1D
Entries 100
Mean −0.1046
Std Dev 0.4946

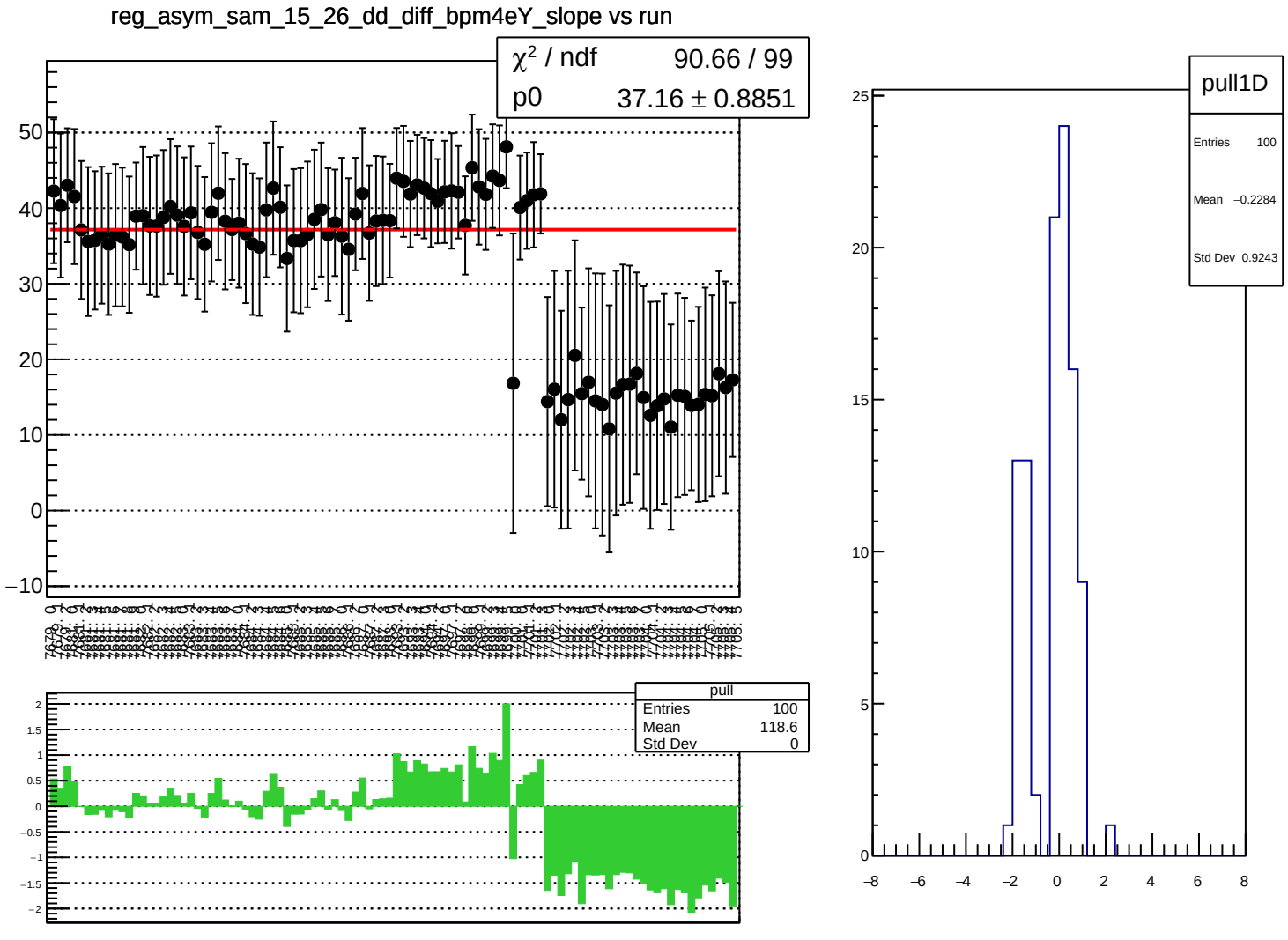

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 396.7 / 99
p0 −49.84 ± 0.5481
pull
Entries 100
Mean 189.5
Std Dev 0
pull1D
Entries 100
Mean 0.2384
Std Dev 1.977

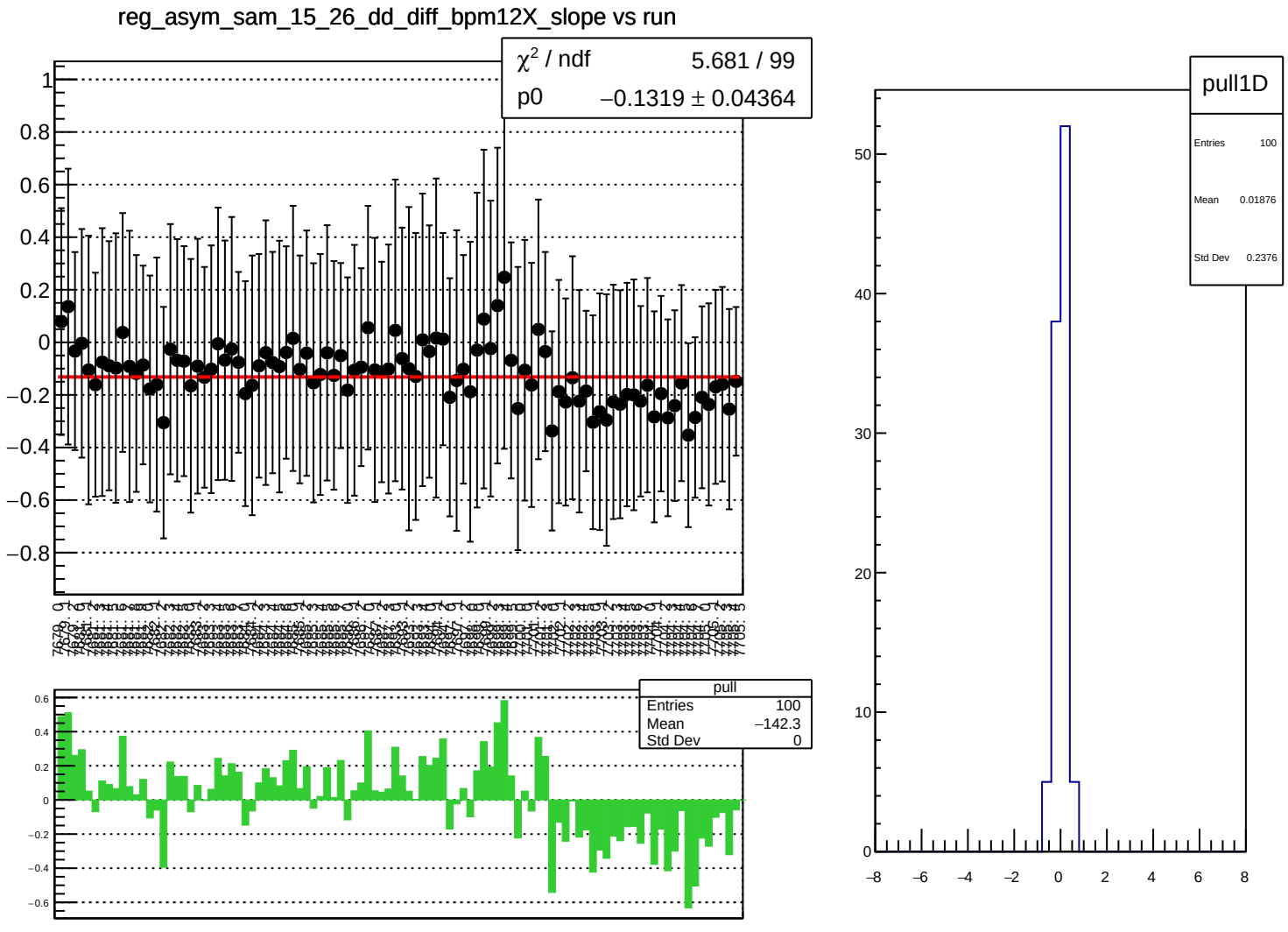

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 18.72 / 99
p0 0.3972 ± 0.02415
pull
Entries 100
Mean 105.3
Std Dev 32.85
pull1D
Entries 100
Mean 0.005584
Std Dev 0.4326

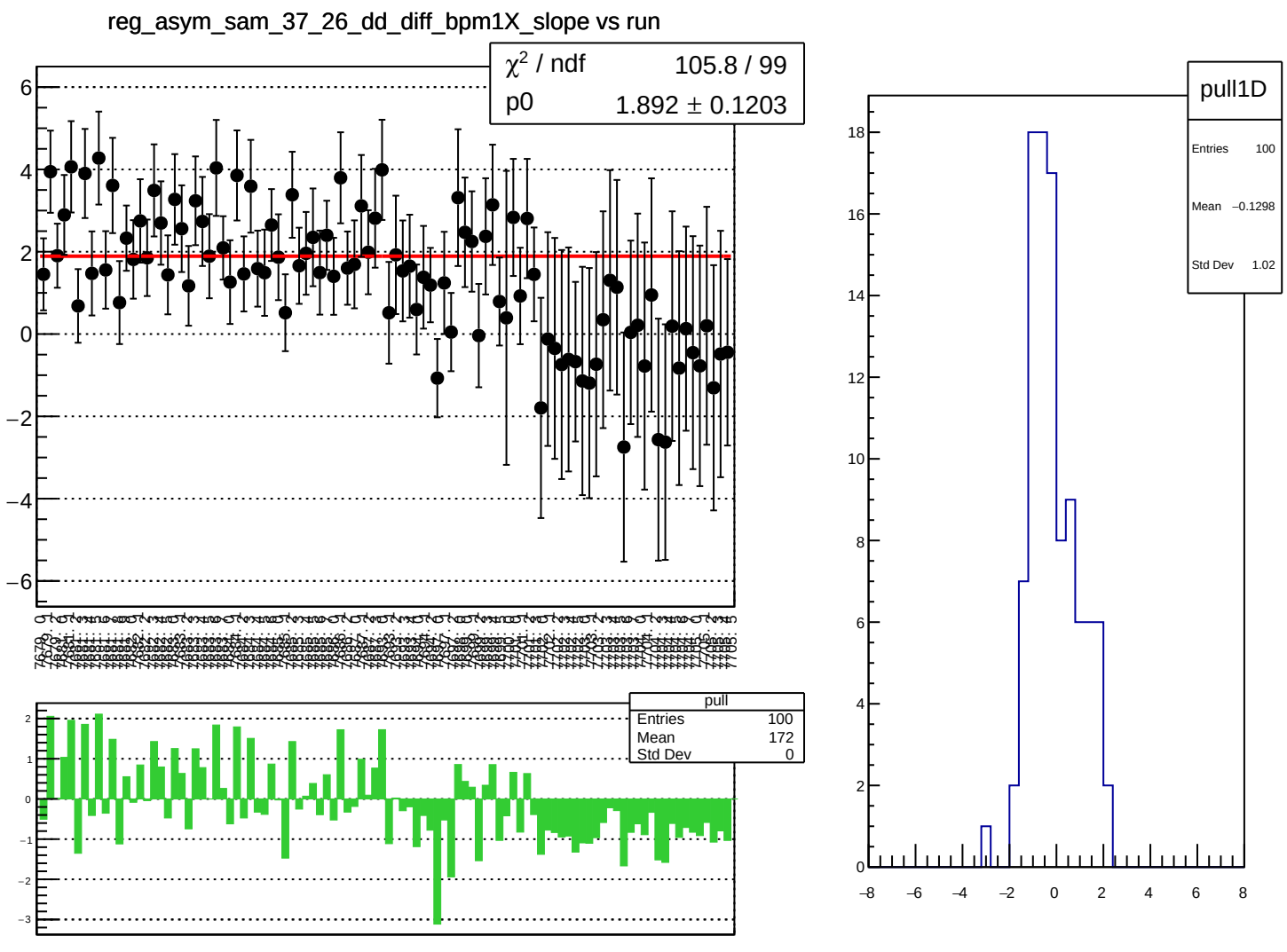

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 70.95 / 99
p0 −3.392 ± 0.4197
pull
Entries 100
Mean 106.4
Std Dev 0
pull1D
Entries 100
Mean 0.2861
Std Dev 0.7922

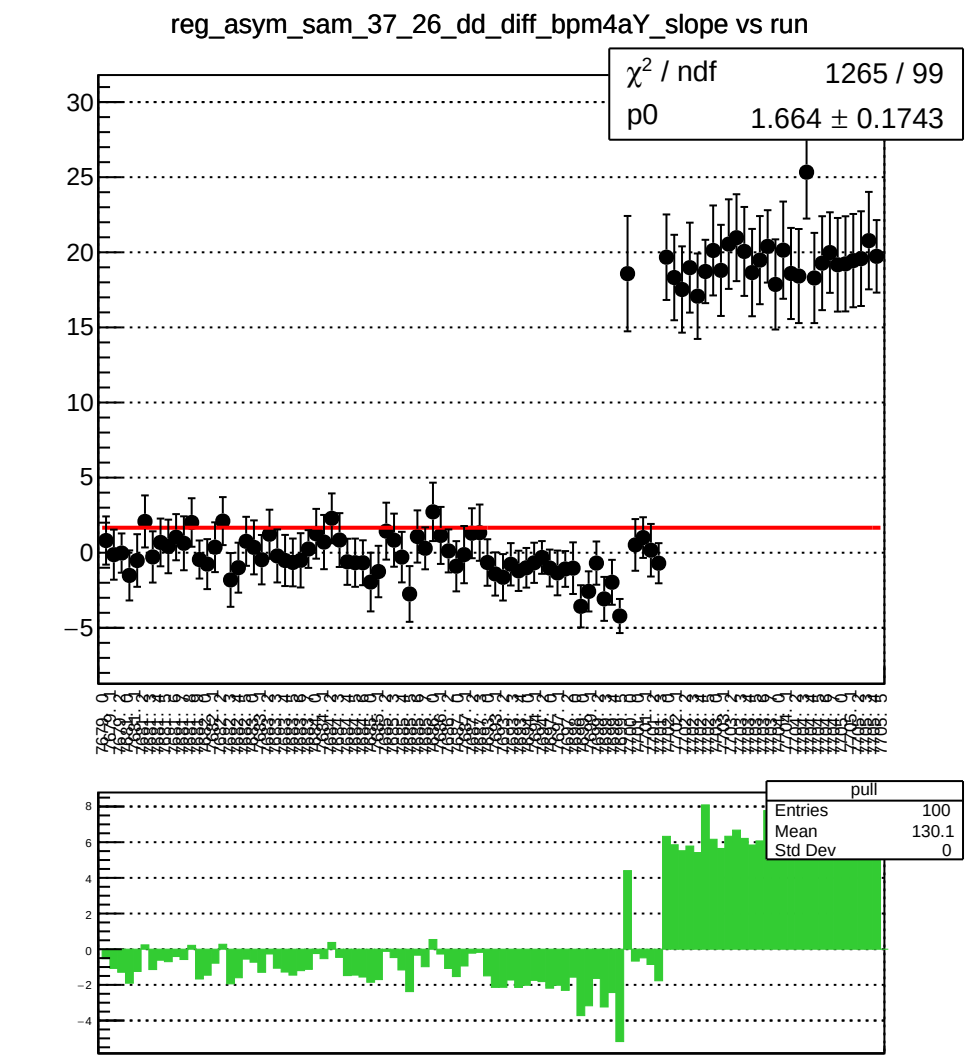

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 112.2 / 99
p0 −0.3935 ± 0.5968
40
30
20
10
0
−10
pull
Entries 100
Mean 96.65
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 100
Mean 0.3475
Std Dev 1
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

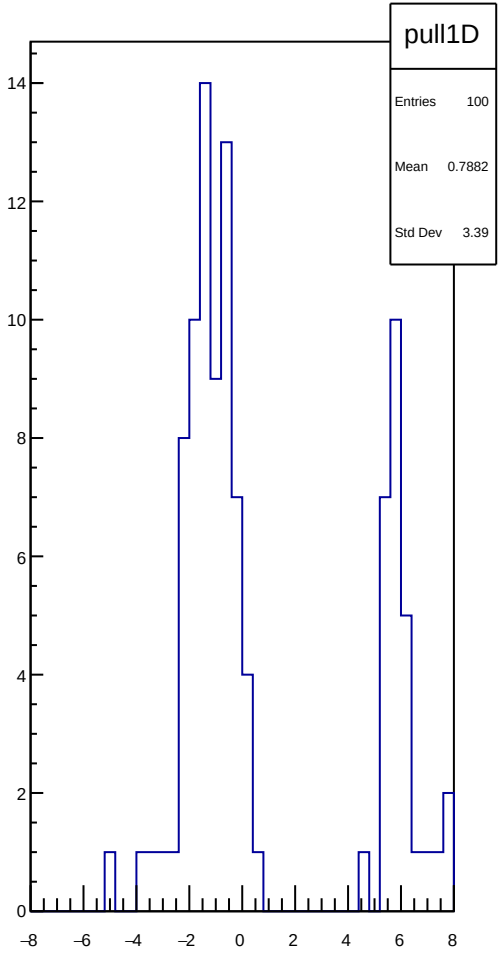

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 93.82 / 99
p0 32.97 ± 0.3385
pull
Entries 100
Mean 109.5
Std Dev 0
pull1D
Entries 100
Mean −0.3321
Std Dev 0.9099

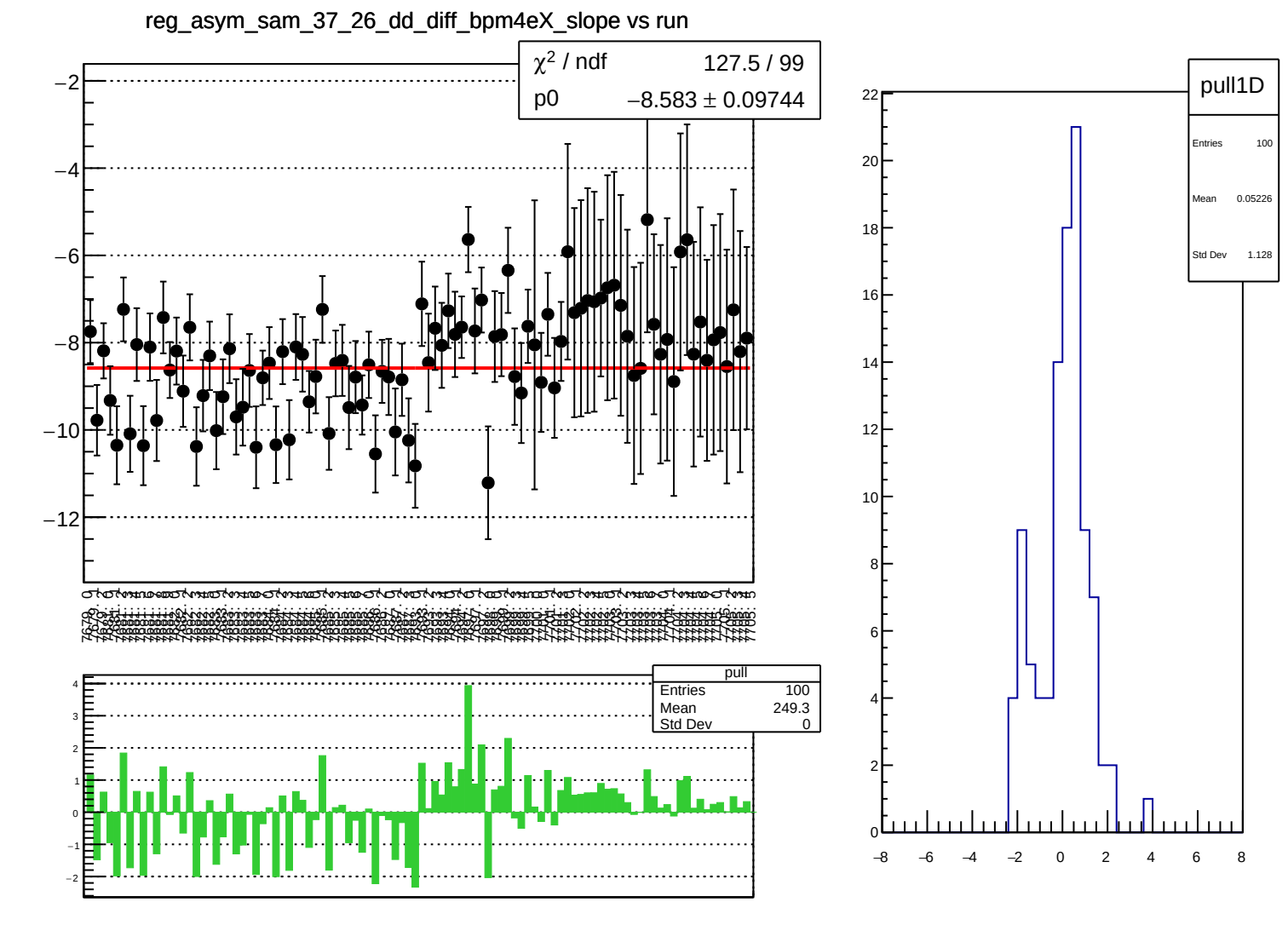

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 90.66 / 99
p0 37.16 ± 0.8851
pull
Entries 100
Mean 118.6
Std Dev 0
pull1D
Entries 100
Mean −0.2284
Std Dev 0.9243

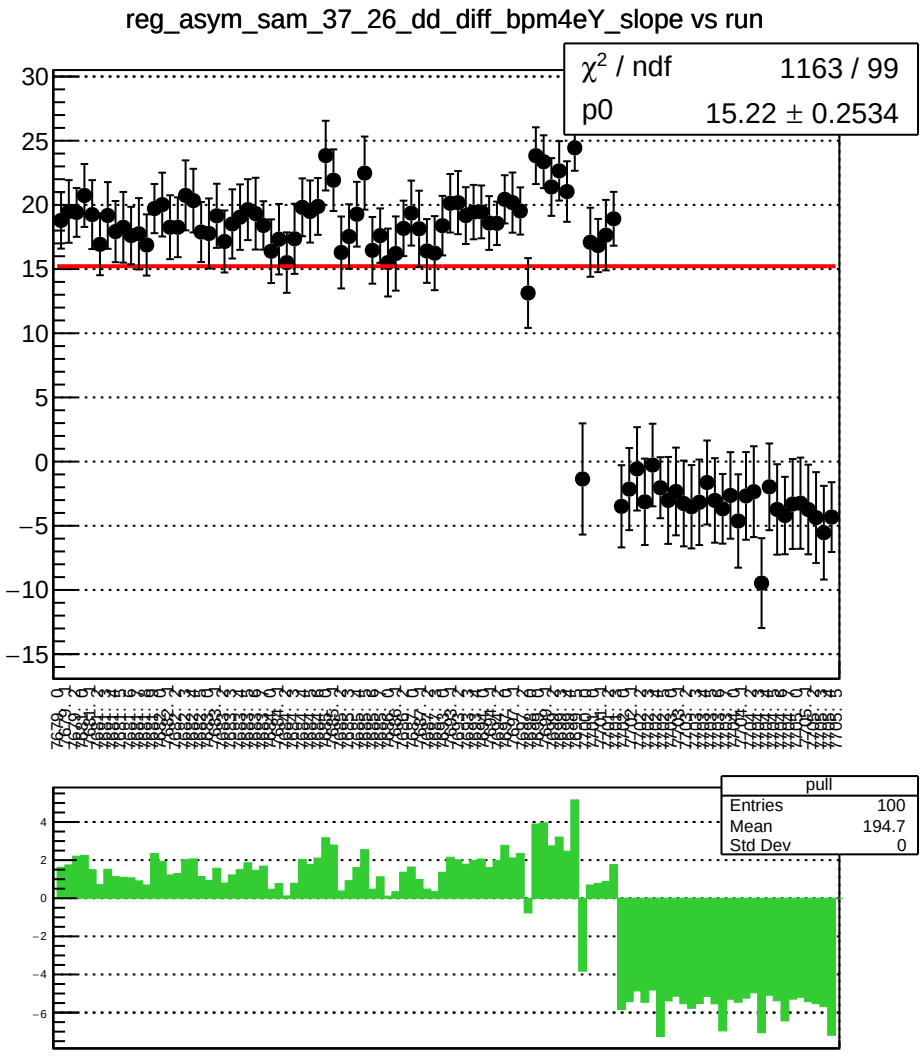

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 5.681 / 99
p0 −0.1319 ± 0.04364
pull
Entries 100
Mean −142.3
Std Dev 0
pull1D
Entries 100
Mean 0.01876
Std Dev 0.2376

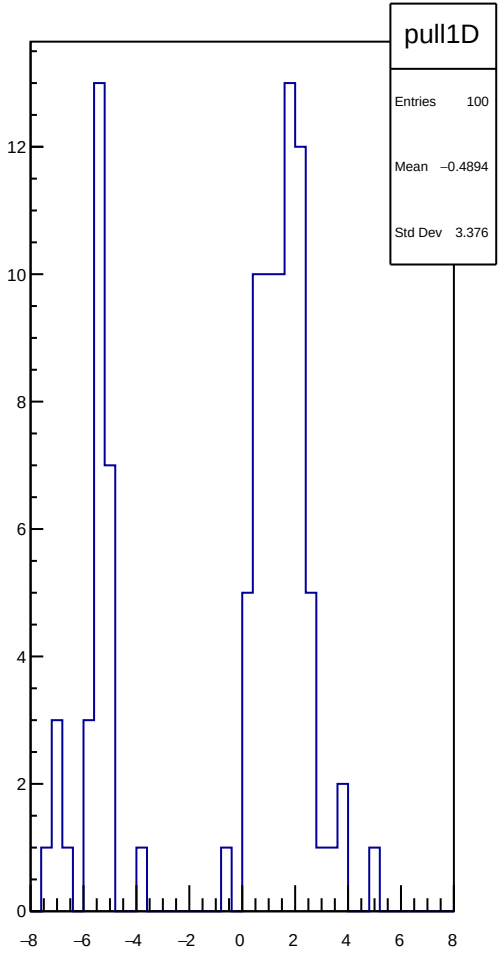

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 105.8 / 99
p0 1.892 ± 0.1203
pull
Entries 100
Mean 172
Std Dev 0
pull1D
Entries 100
Mean −0.1298
Std Dev 1.02

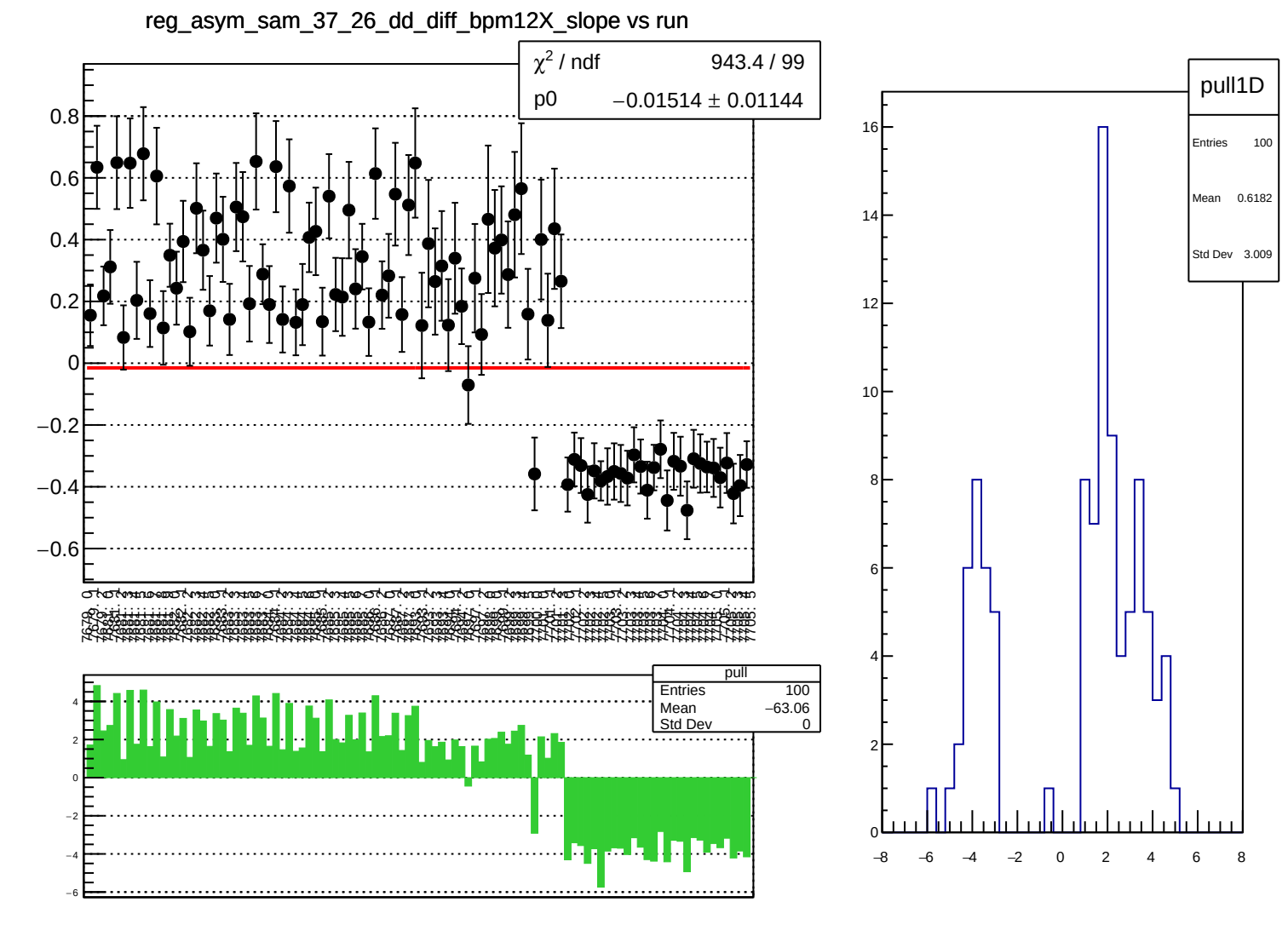

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 1265 / 99
p0 1.664 ± 0.1743
pull
Entries 100
Mean 130.1
Std Dev 0

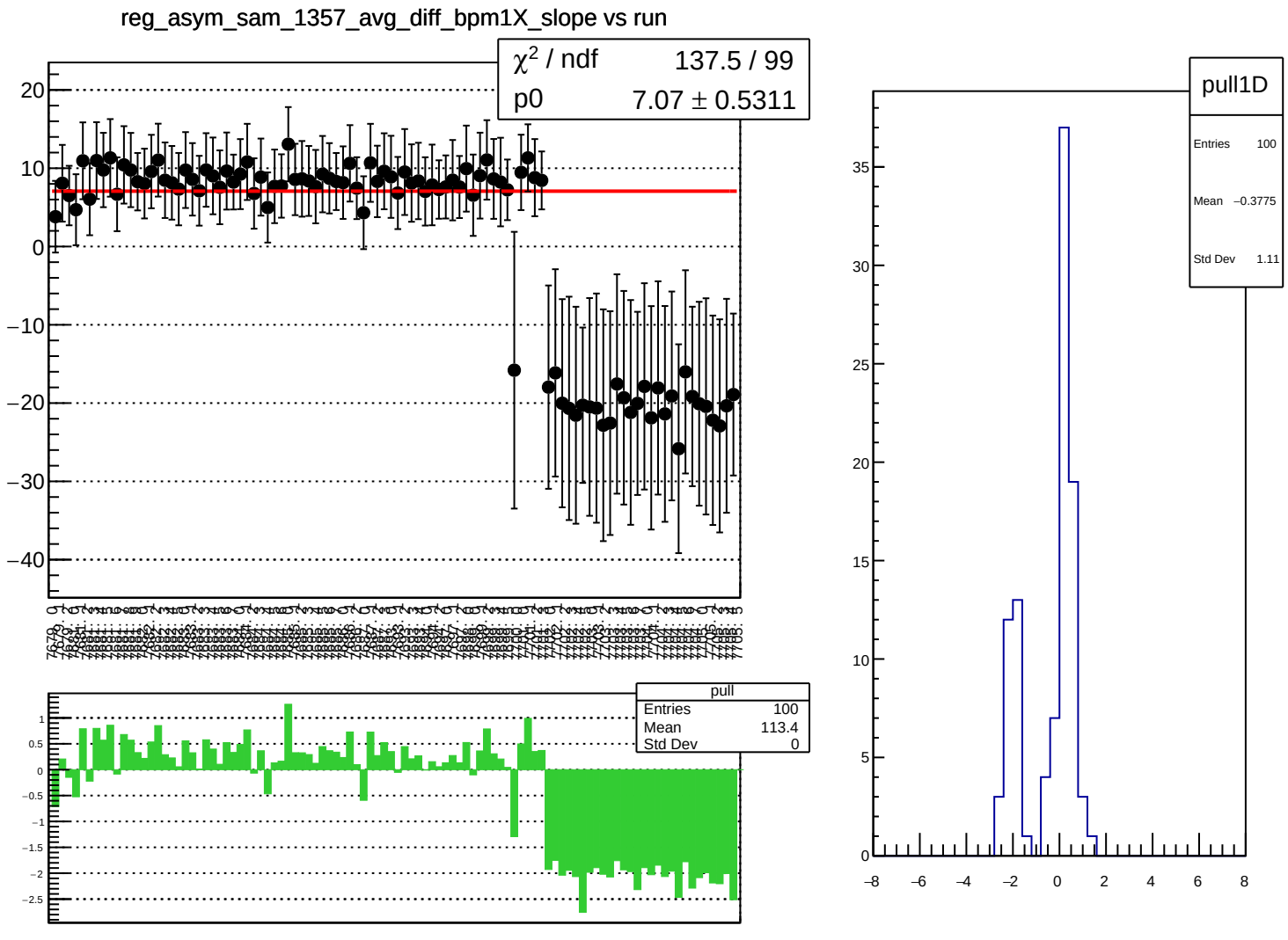

pull1D
Entries 100
Mean 0.7882
Std Dev 3.39

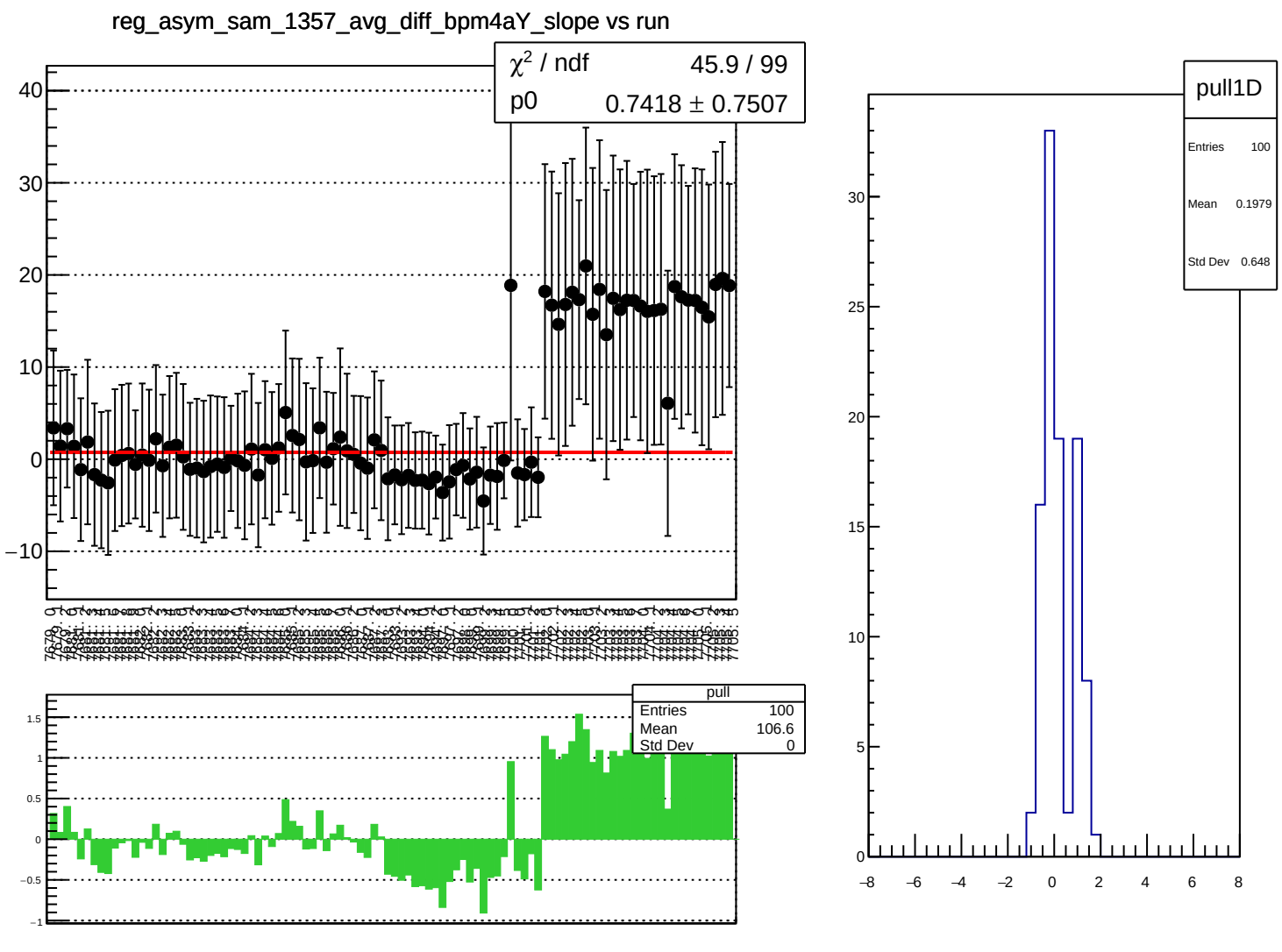

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 127.5 / 99
p0 −8.583 ± 0.09744
pull
Entries 100
Mean 249.3
Std Dev 0
pull1D
Entries 100
Mean 0.05226
Std Dev 1.128

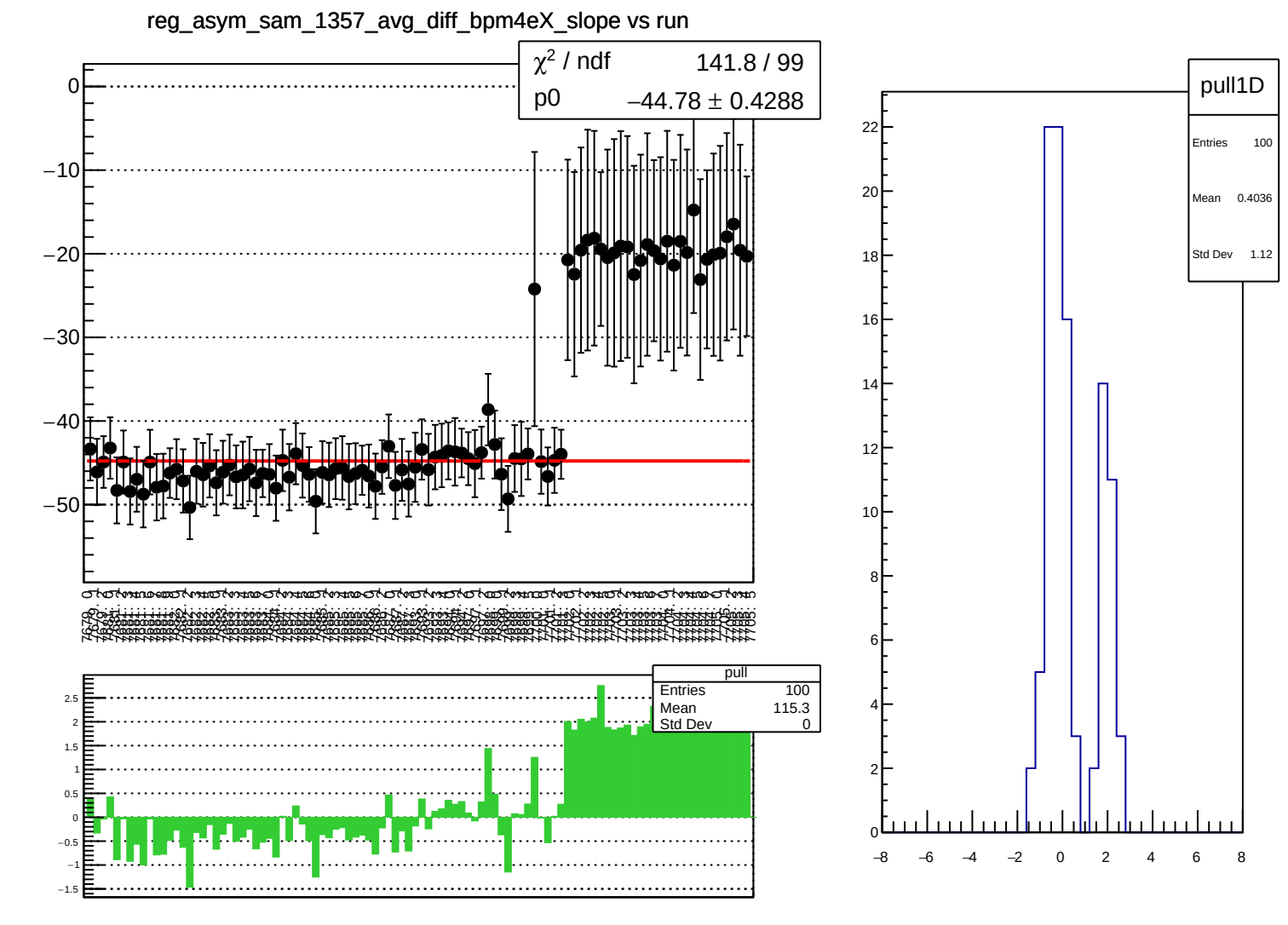

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 1163 / 99
p0 15.22 ± 0.2534
pull
Entries 100
Mean 194.7
Std Dev 0

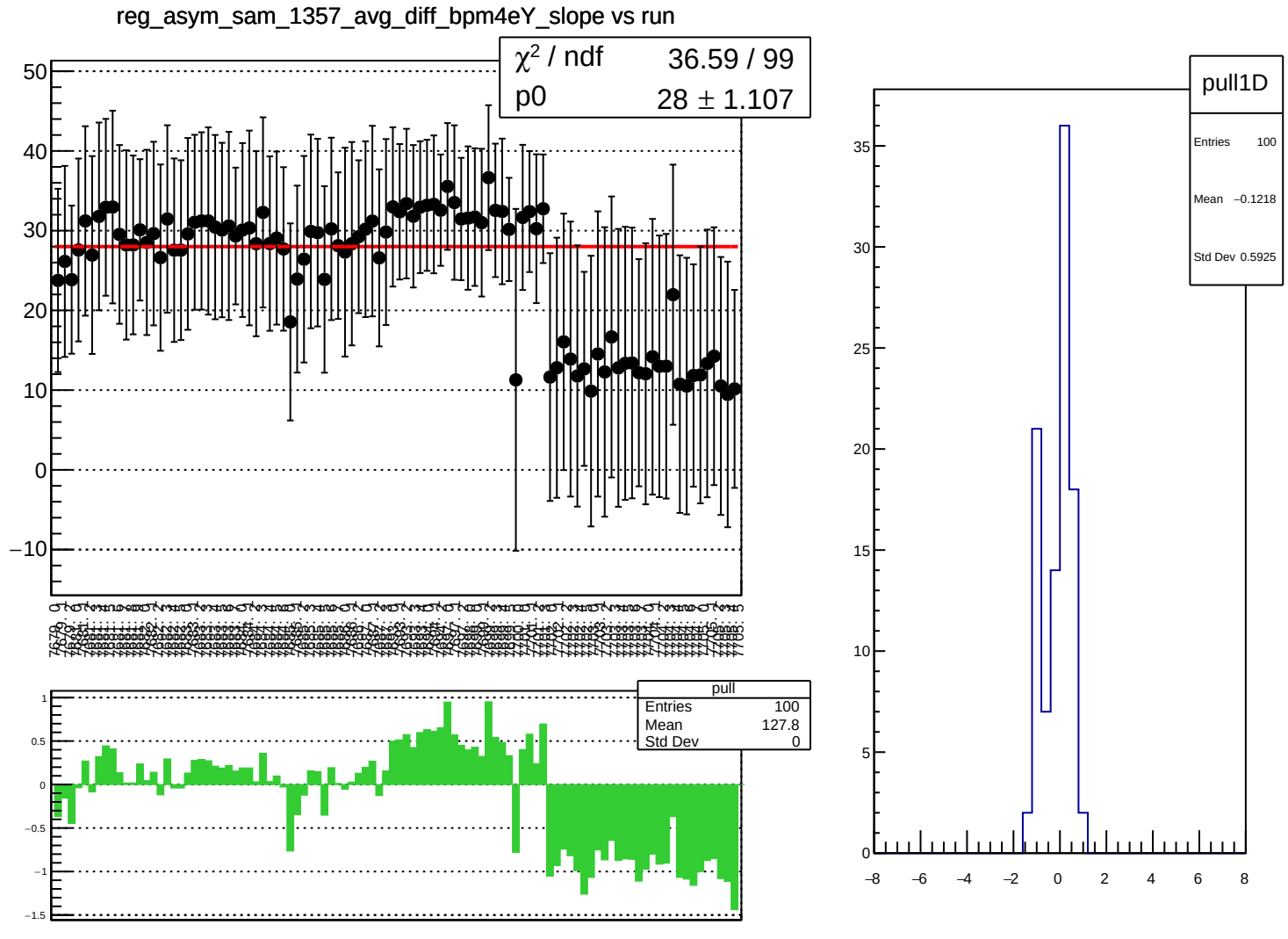

pull1D
Entries 100
Mean −0.4894
Std Dev 3.376

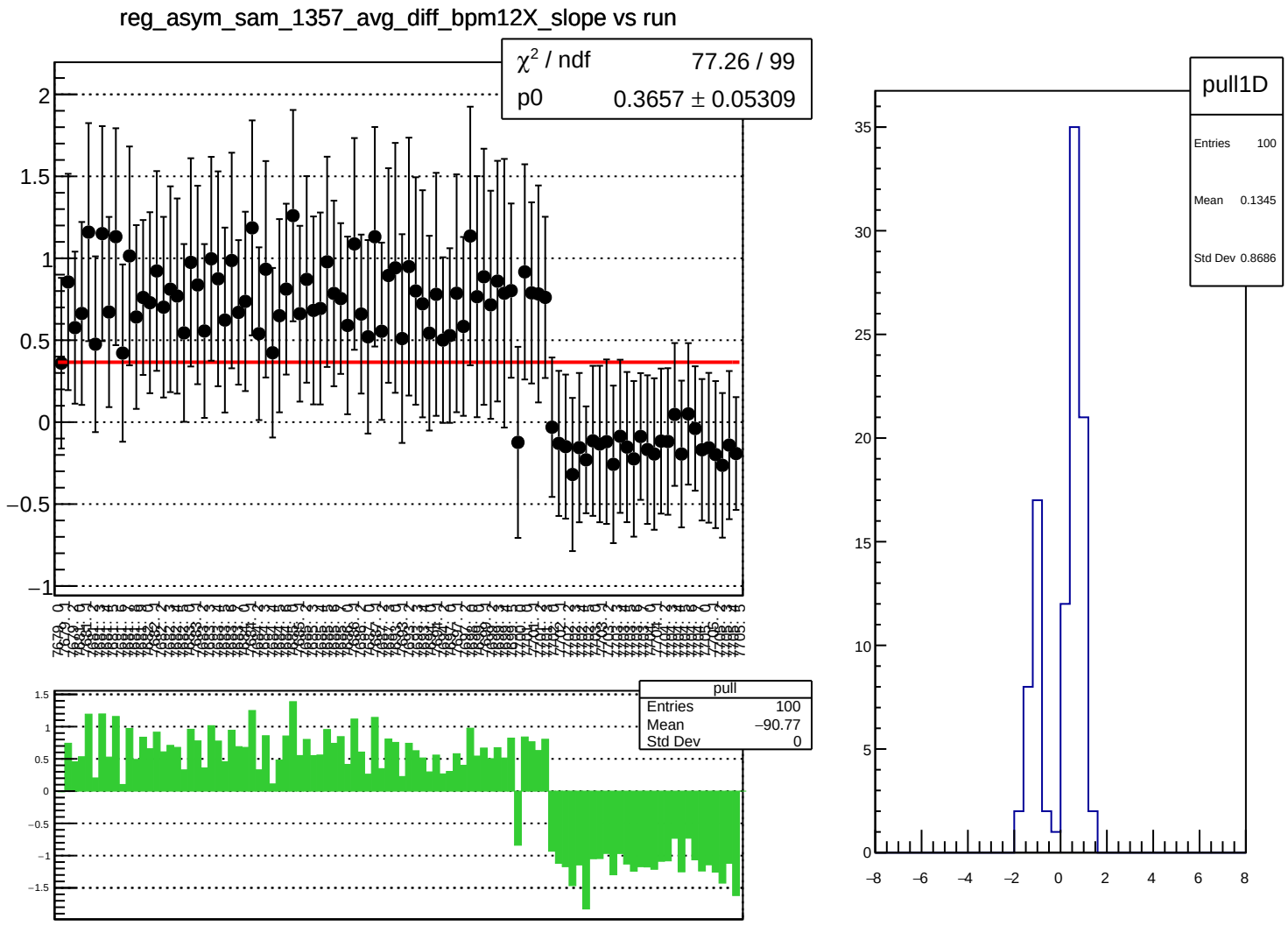

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 943.4 / 99
p0 −0.01514 ± 0.01144
pull
Entries 100
Mean −63.06
Std Dev 0
pull1D
Entries 100
Mean 0.6182
Std Dev 3.009

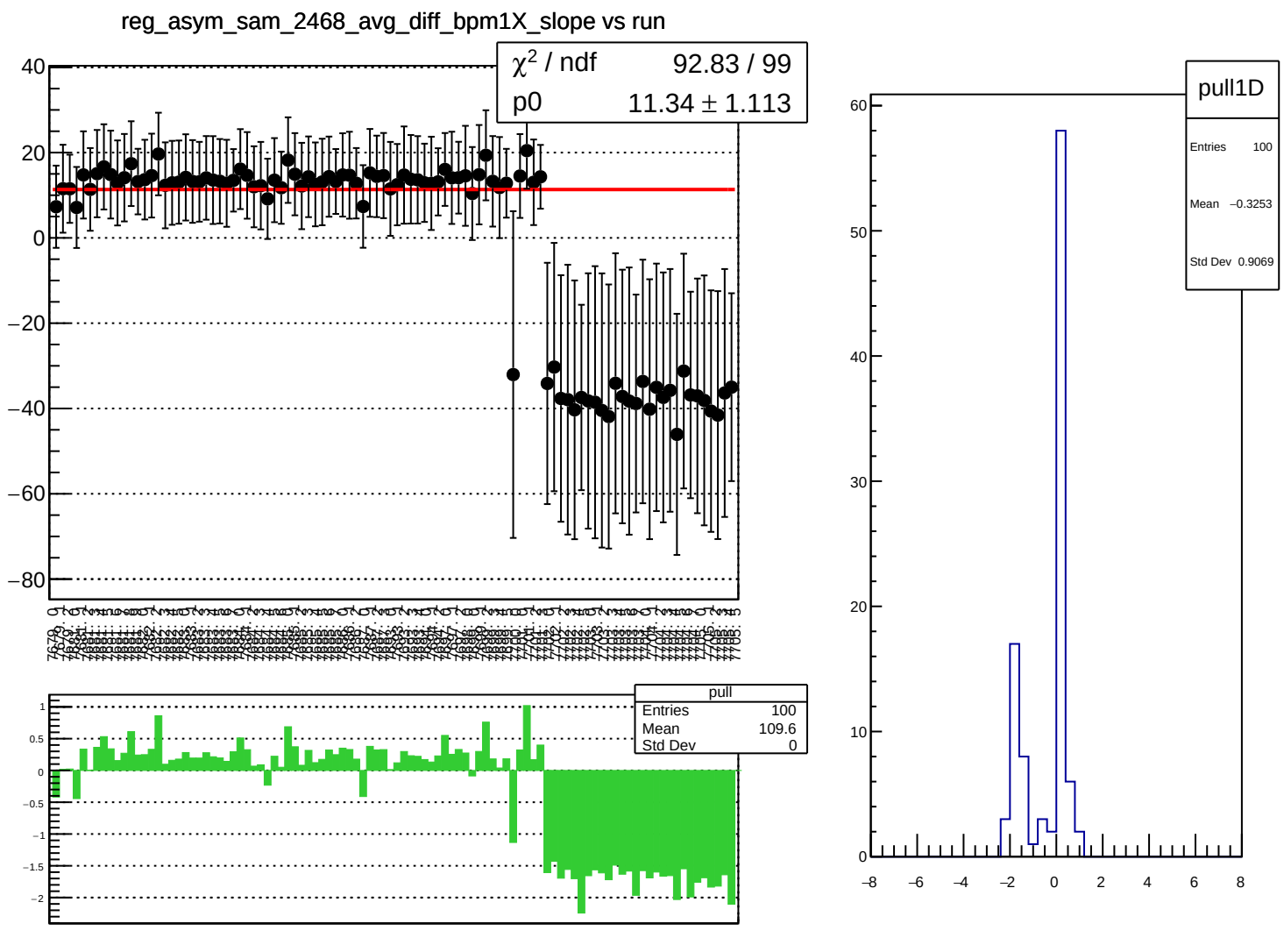

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 137.5 / 99
p0 7.07 ± 0.5311
pull
Entries 100
Mean 113.4
Std Dev 0
pull1D
Entries 100
Mean −0.3775
Std Dev 1.11

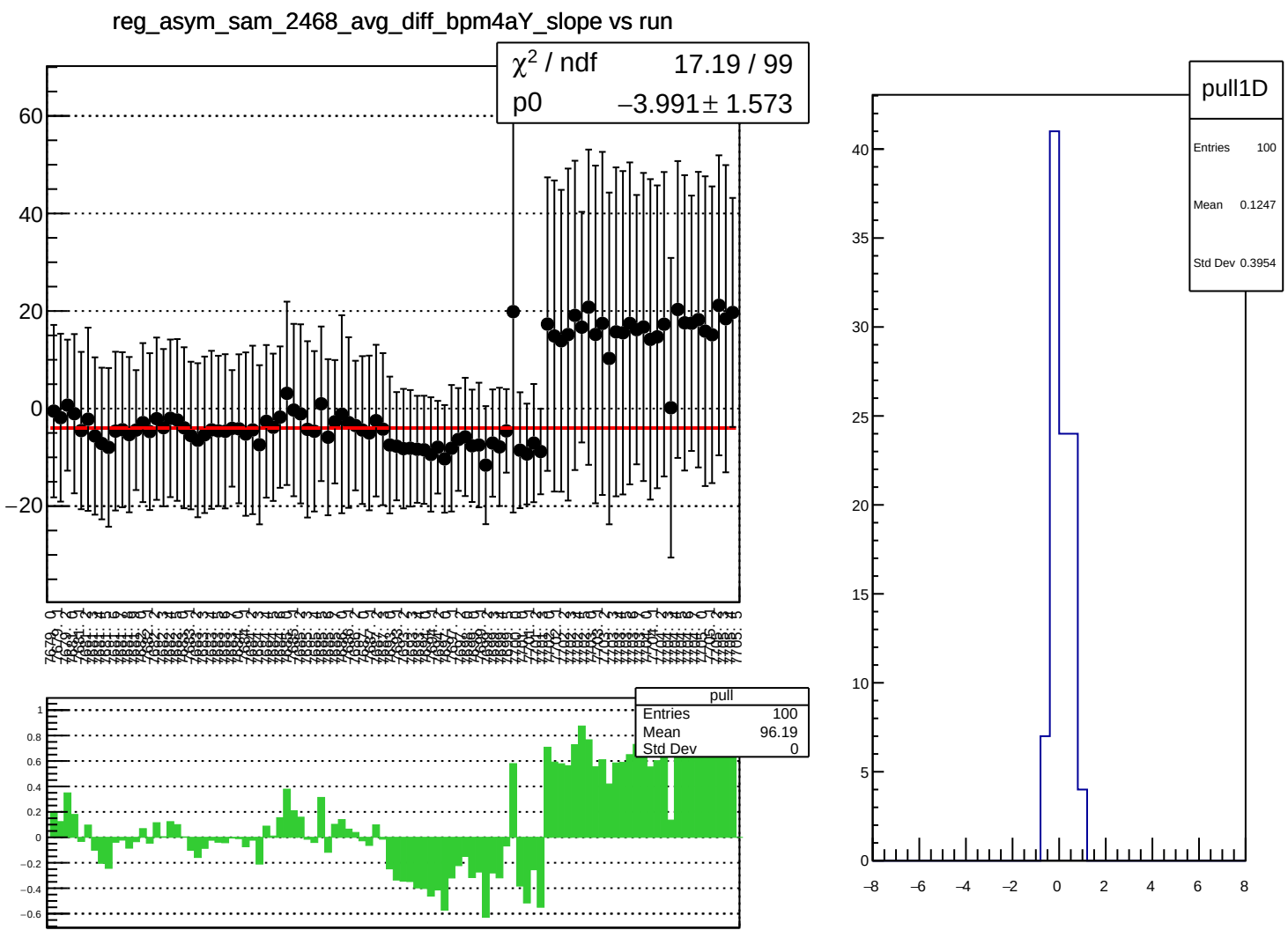

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 45.9 / 99
p0 0.7418 ± 0.7507
pull
Entries 100
Mean 106.6
Std Dev 0
pull1D
Entries 100
Mean 0.1979
Std Dev 0.648

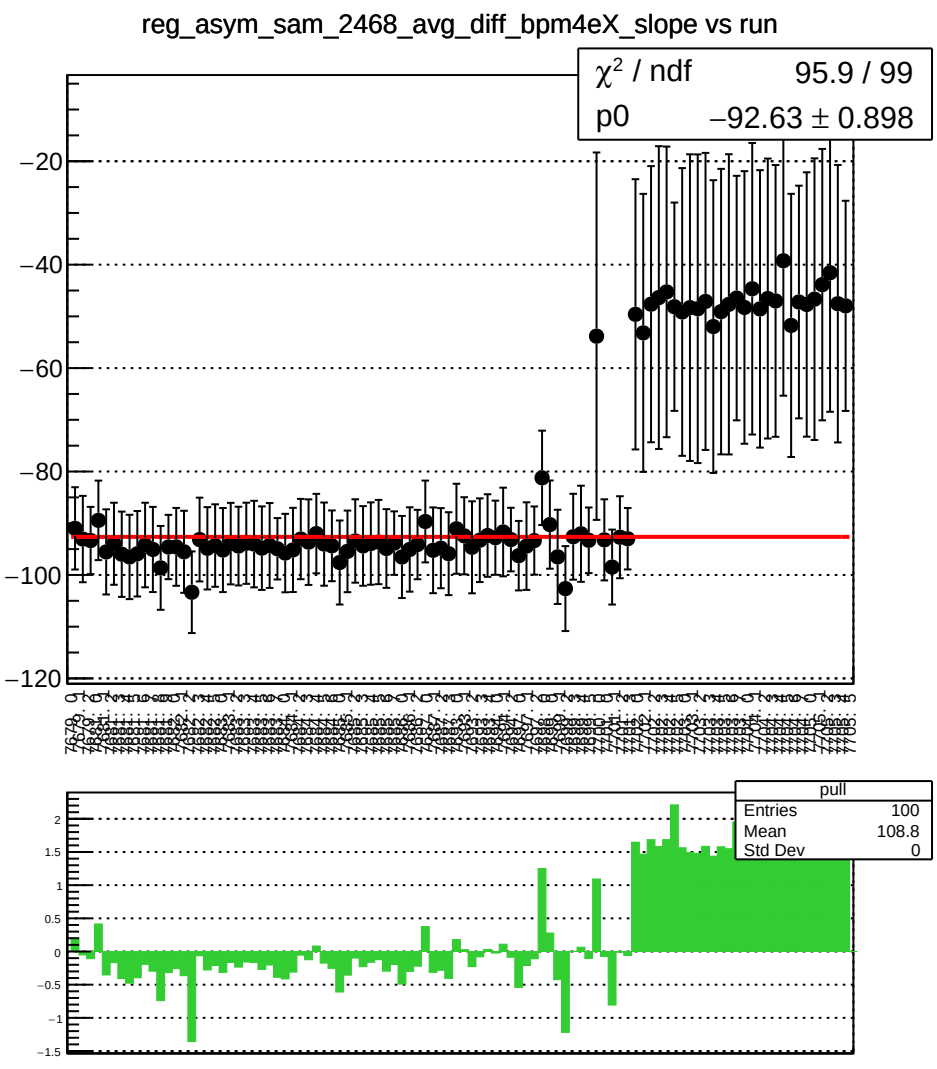

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 141.8 / 99
p0 −44.78 ± 0.4288
pull
Entries 100
Mean 115.3
Std Dev 0
pull1D
Entries 100
Mean 0.4036
Std Dev 1.12

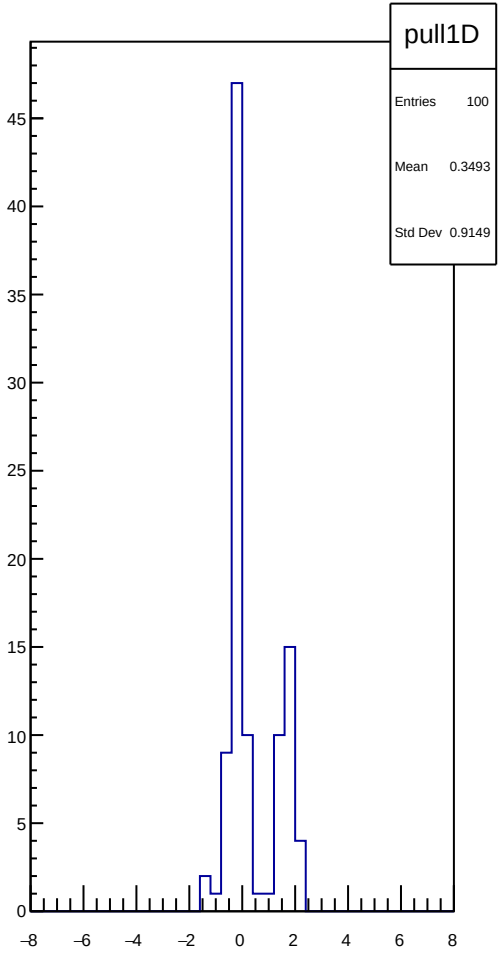

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 36.59 / 99
p0 28 ± 1.107
pull
Entries 100
Mean 127.8
Std Dev 0
pull1D
Entries 100
Mean −0.1218
Std Dev 0.5925

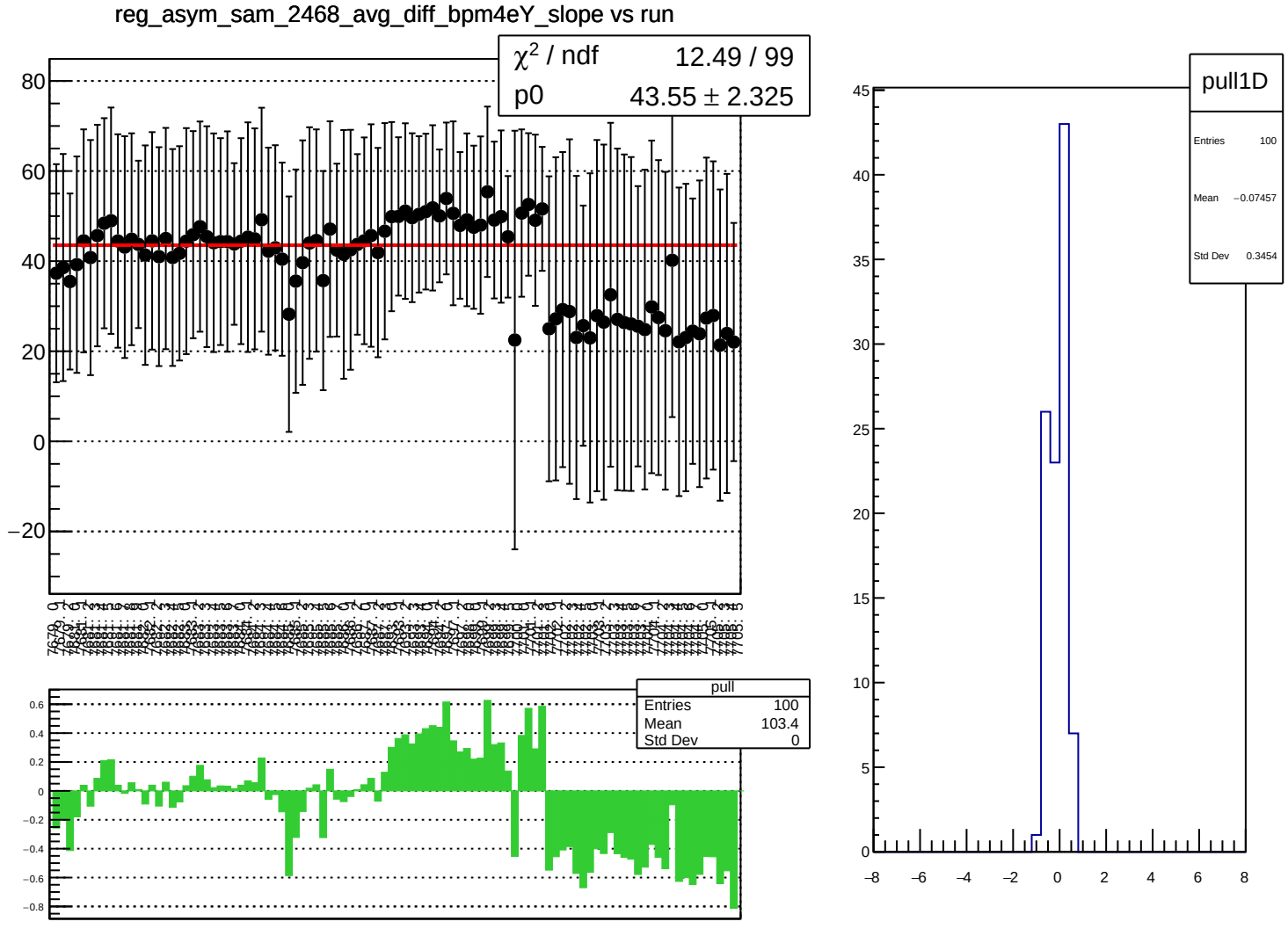

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 77.26 / 99
p0 0.3657 ± 0.05309
pull
Entries 100
Mean −90.77
Std Dev 0
pull1D
Entries 100
Mean 0.1345
Std Dev 0.8686

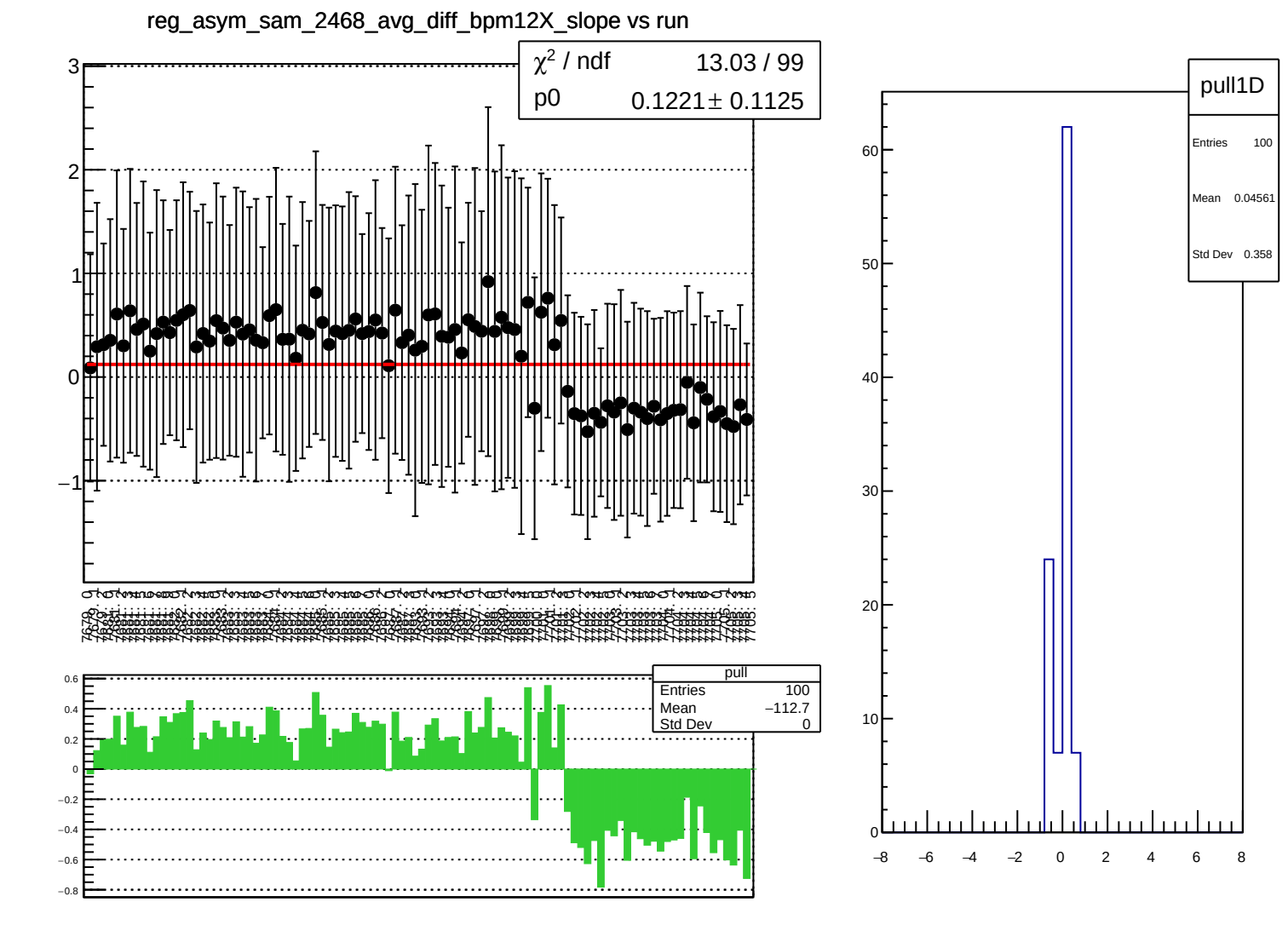

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 92.83 / 99
p0 11.34 ± 1.113
pull
Entries 100
Mean 109.6
Std Dev 0
pull1D
Entries 100
Mean −0.3253
Std Dev 0.9069

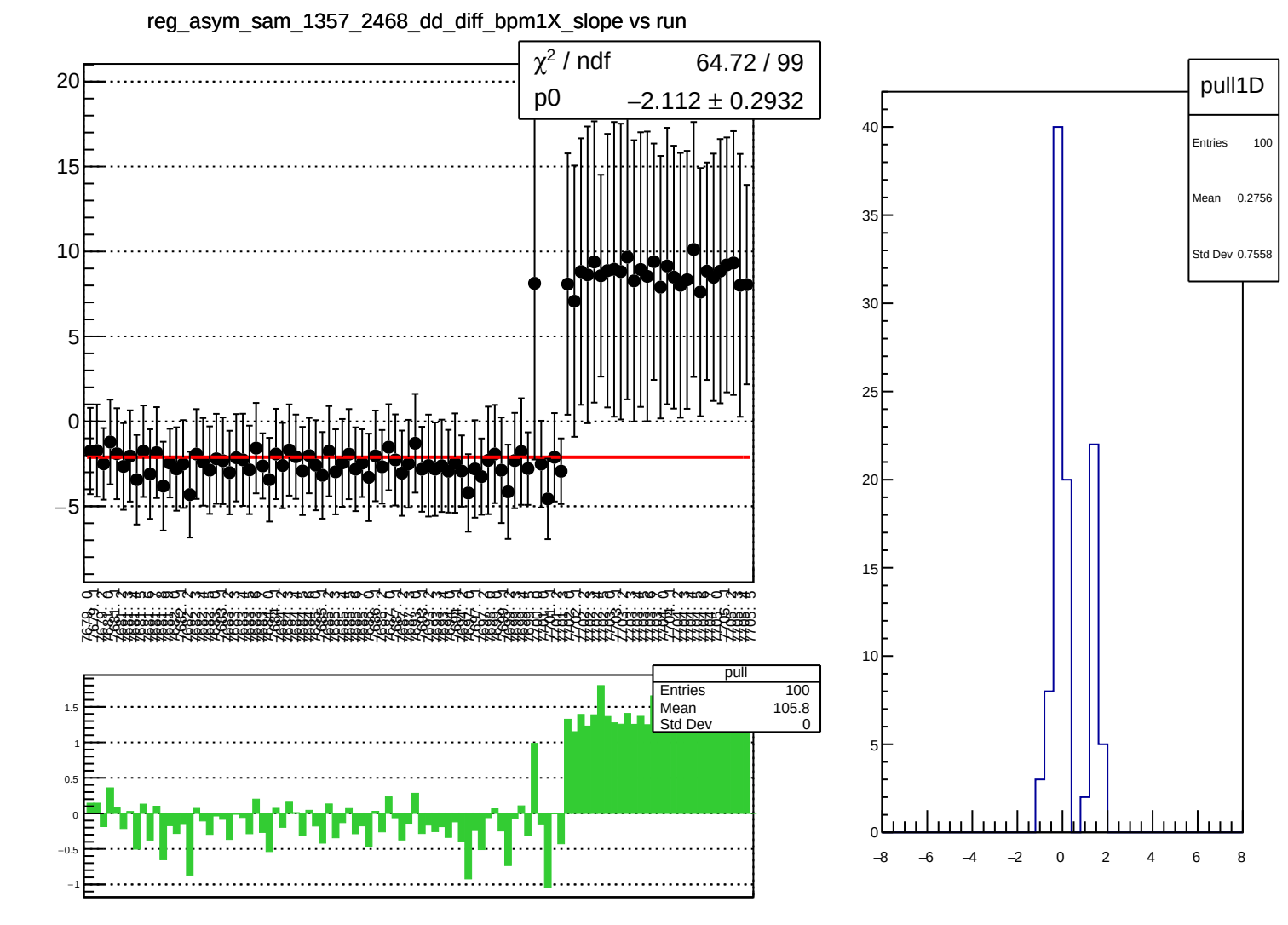

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.19 / 99
p0 −3.991± 1.573
pull
Entries 100
Mean 96.19
Std Dev 0
pull1D
Entries 100
Mean 0.1247
Std Dev 0.3954

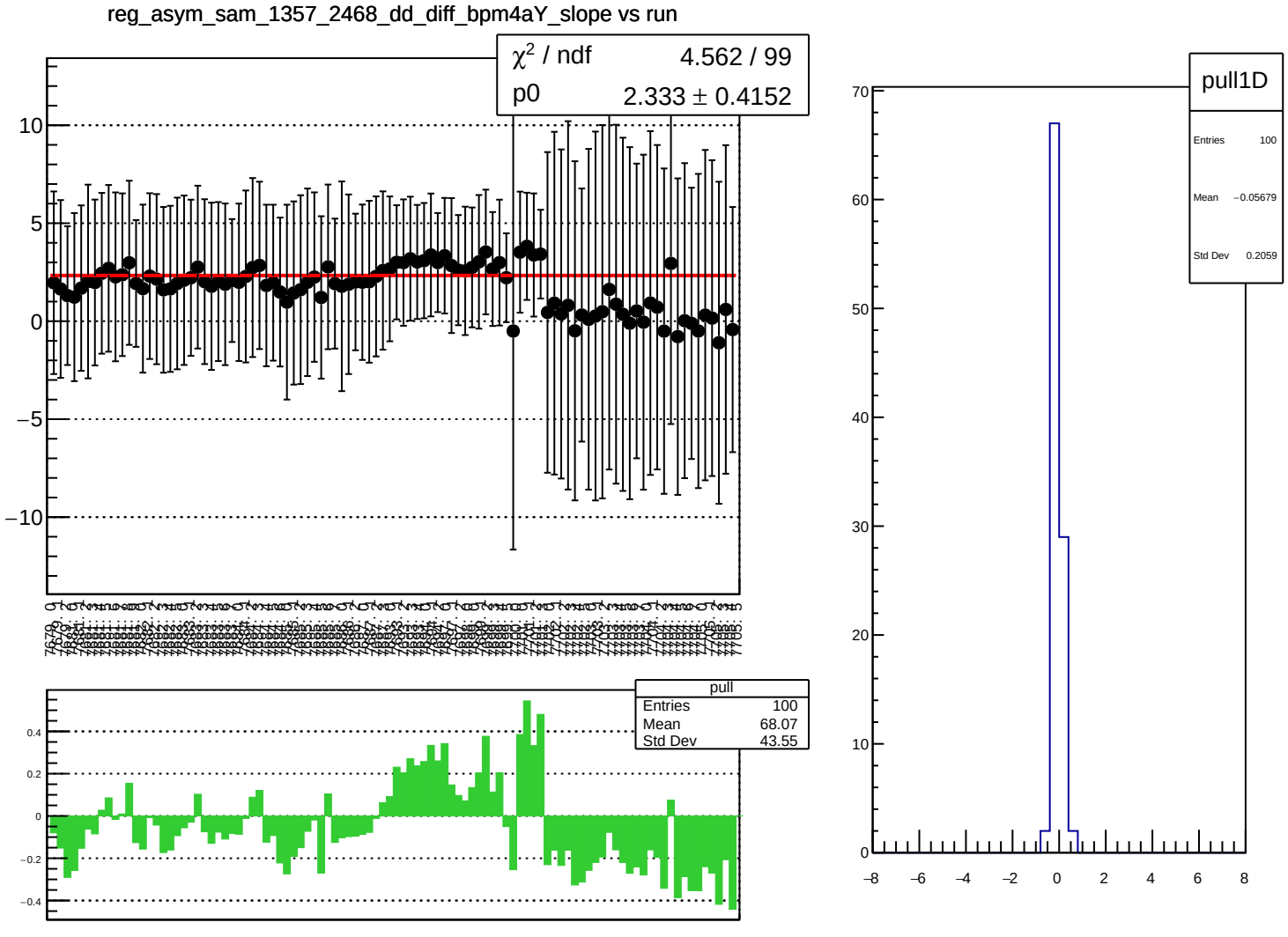

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 95.9 / 99
p0 −92.63 ± 0.898
pull
Entries 100
Mean 108.8
Std Dev 0

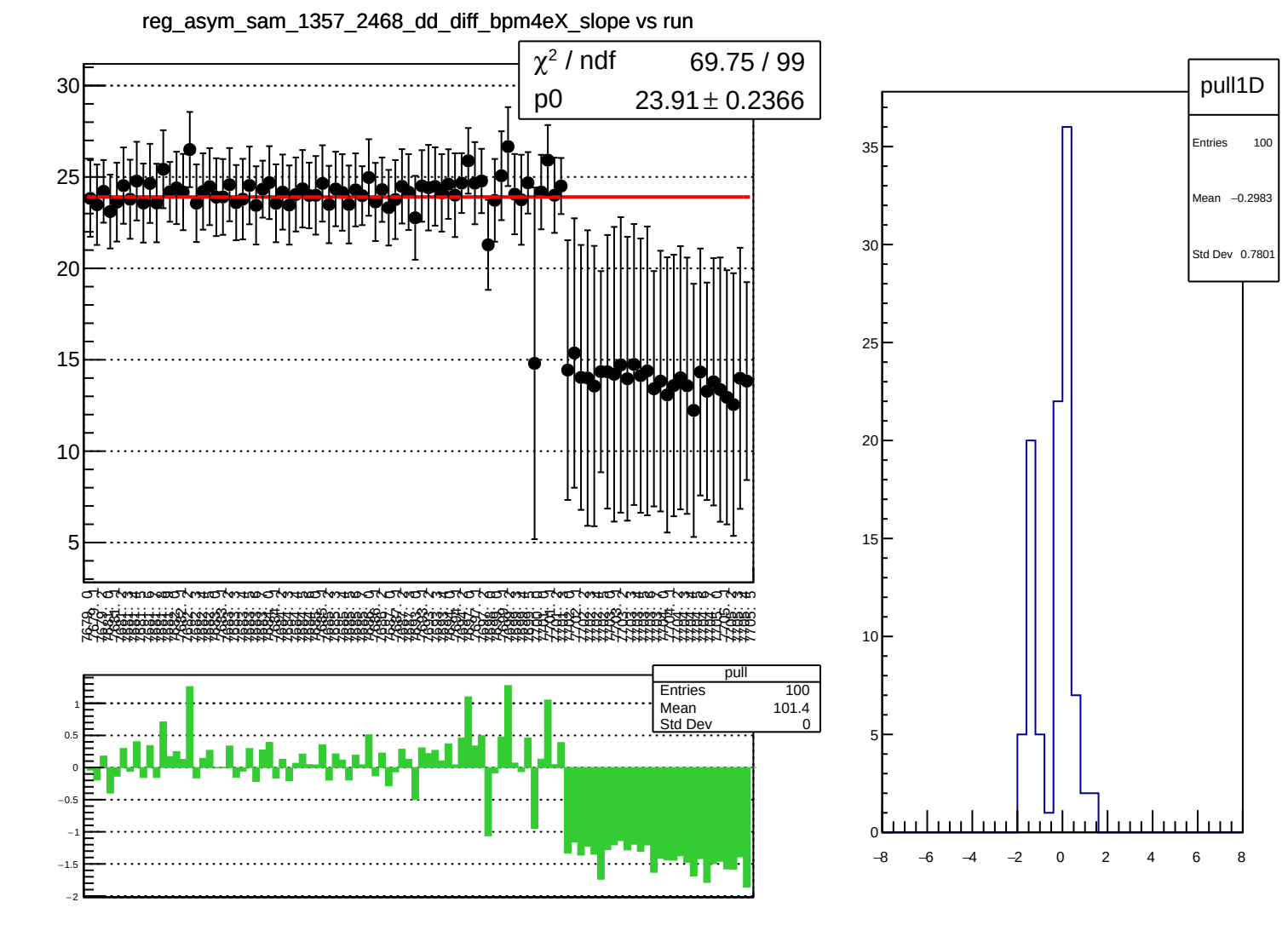

pull1D
Entries 100
Mean 0.3493
Std Dev 0.9149

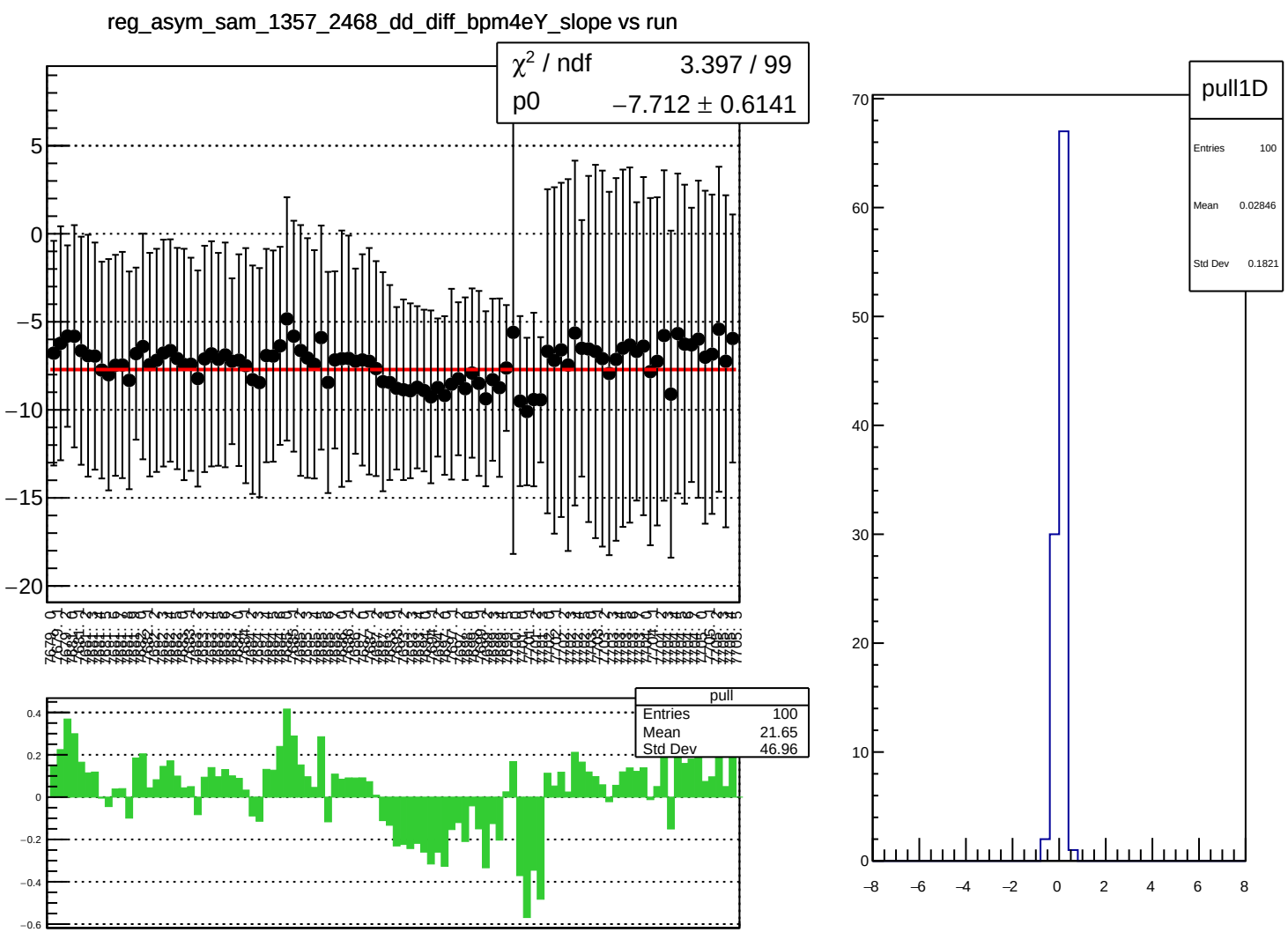

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.49 / 99
p0 43.55 ± 2.325
pull
Entries 100
Mean 103.4
Std Dev 0
pull1D
Entries 100
Mean −0.07457
Std Dev 0.3454

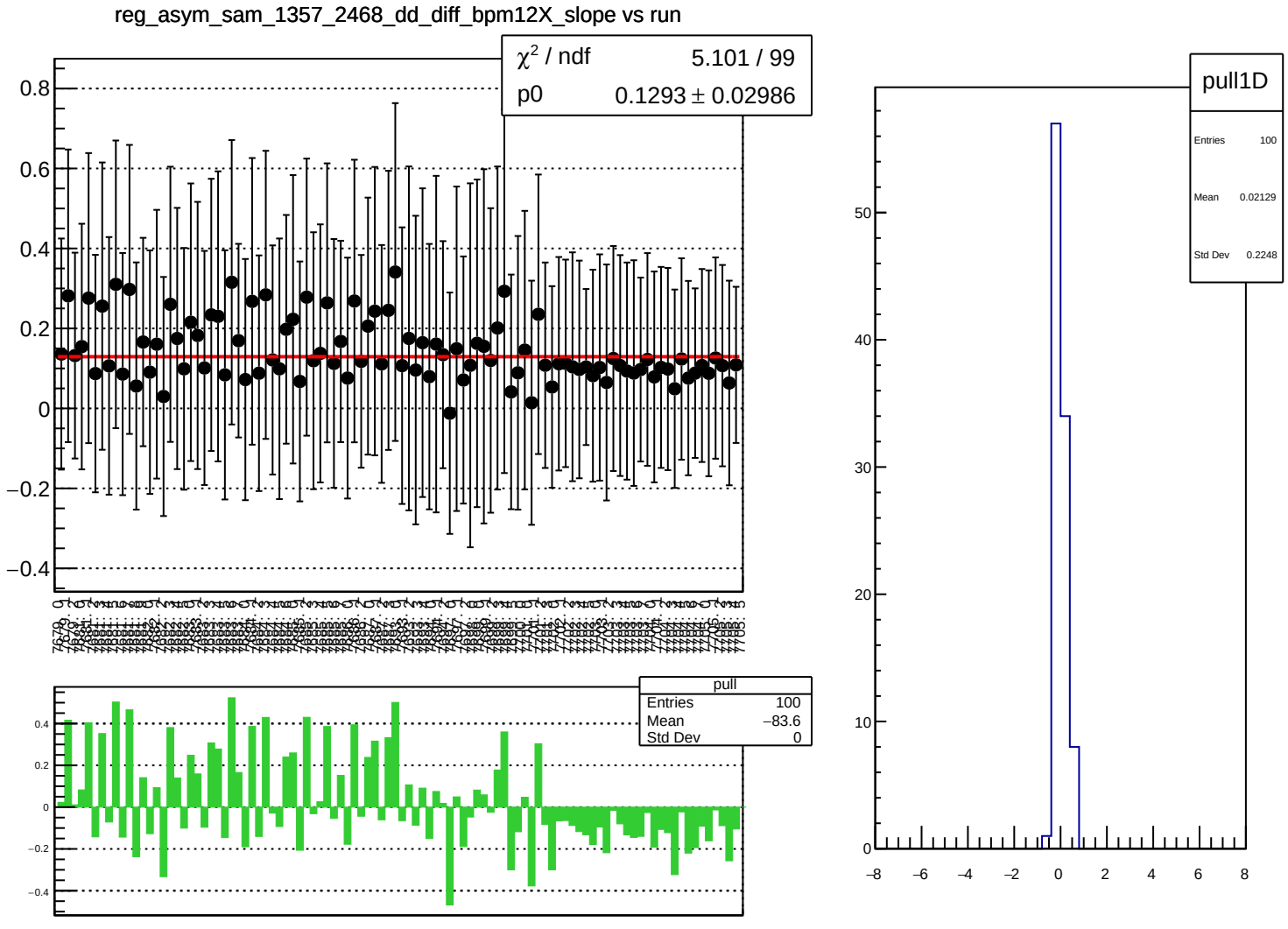

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 13.03 / 99
p0 0.1221± 0.1125
pull
Entries 100
Mean −112.7
Std Dev 0
pull1D
Entries 100
Mean 0.04561
Std Dev 0.358

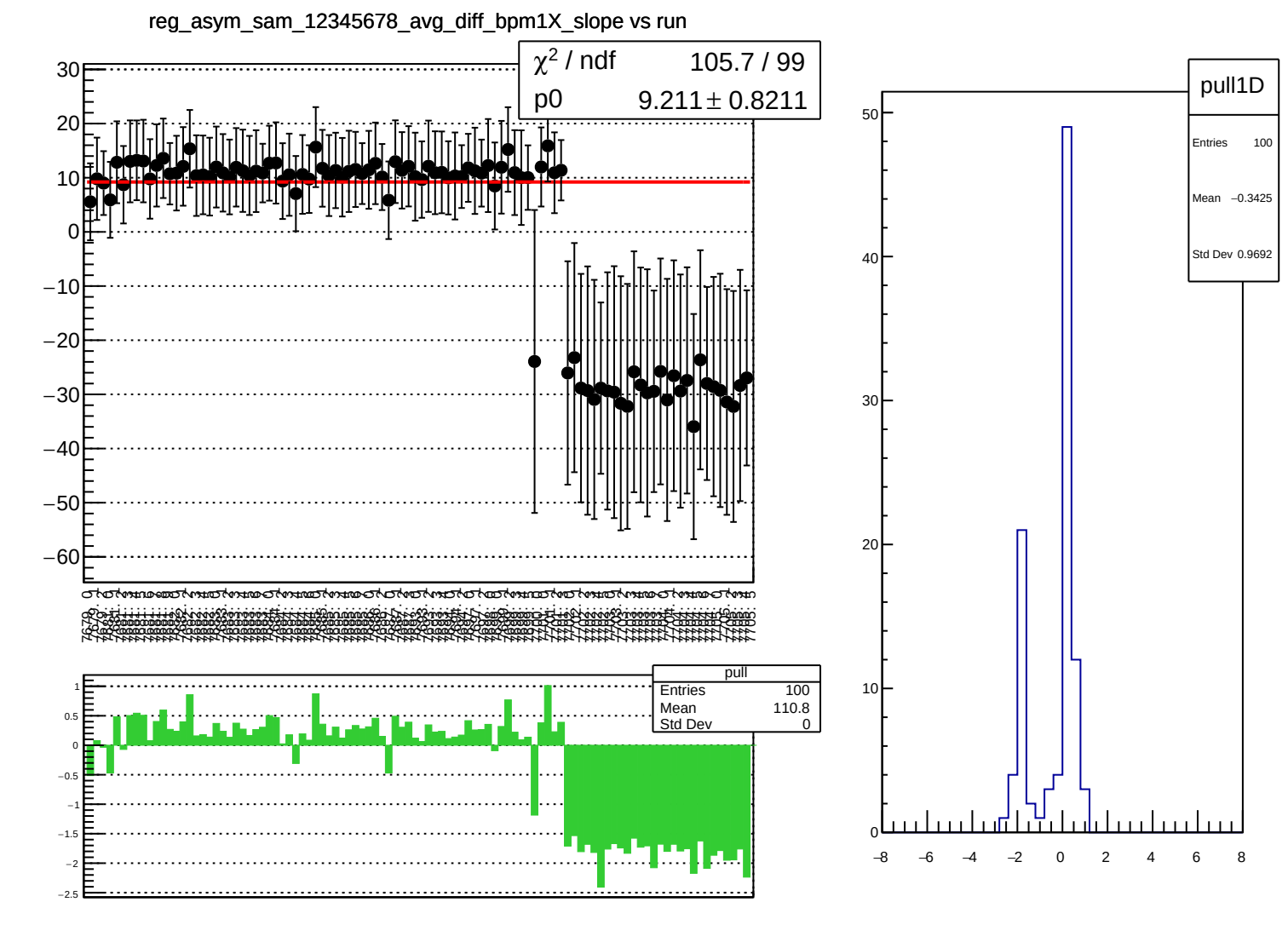

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 64.72 / 99
p0 −2.112 ± 0.2932
pull
Entries 100
Mean 105.8
Std Dev 0
pull1D
Entries 100
Mean 0.2756
Std Dev 0.7558

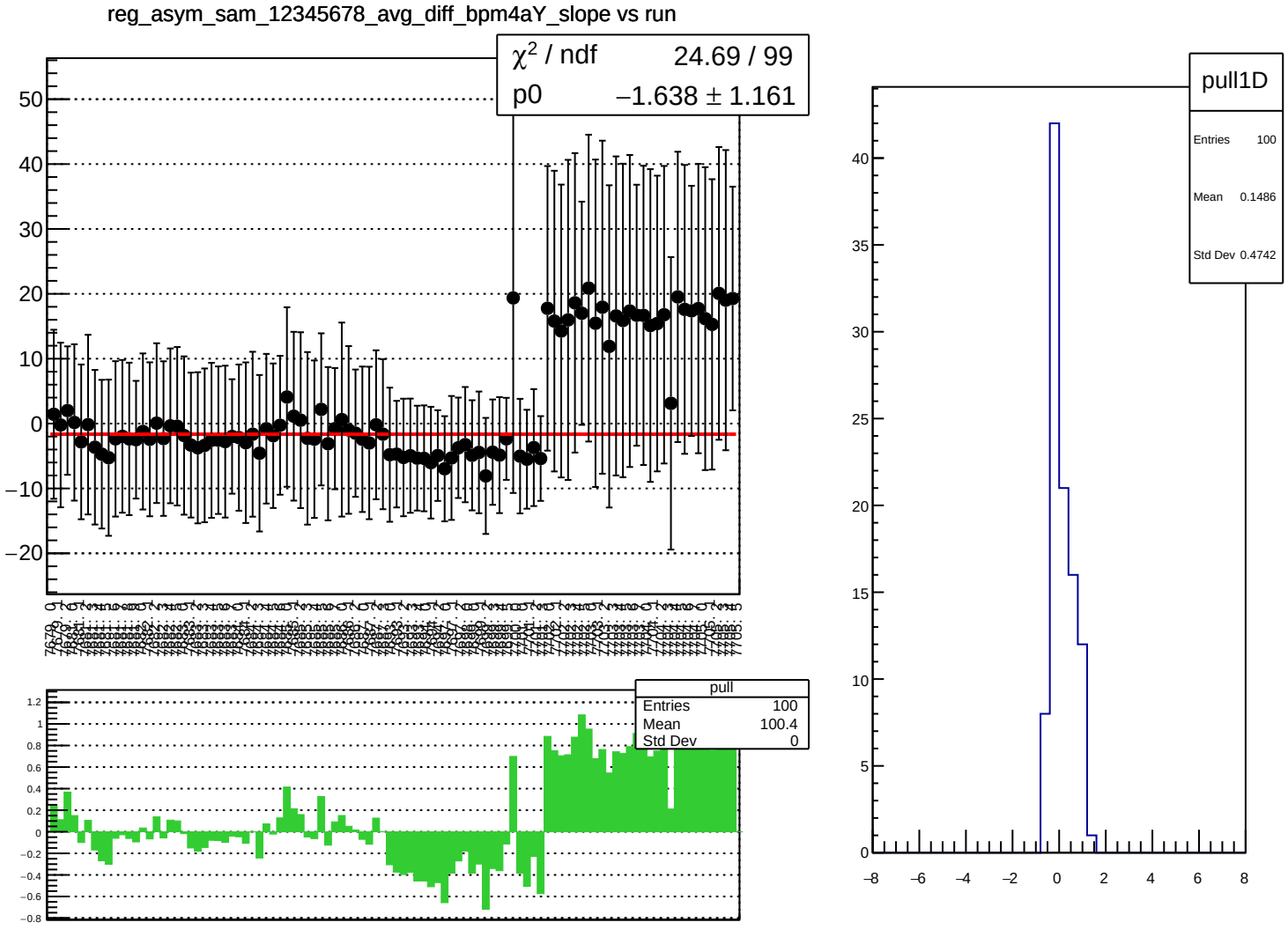

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.562 / 99
p0 2.333 ± 0.4152
pull
Entries 100
Mean 68.07
Std Dev 43.55
pull1D
Entries 100
Mean −0.05679
Std Dev 0.2059

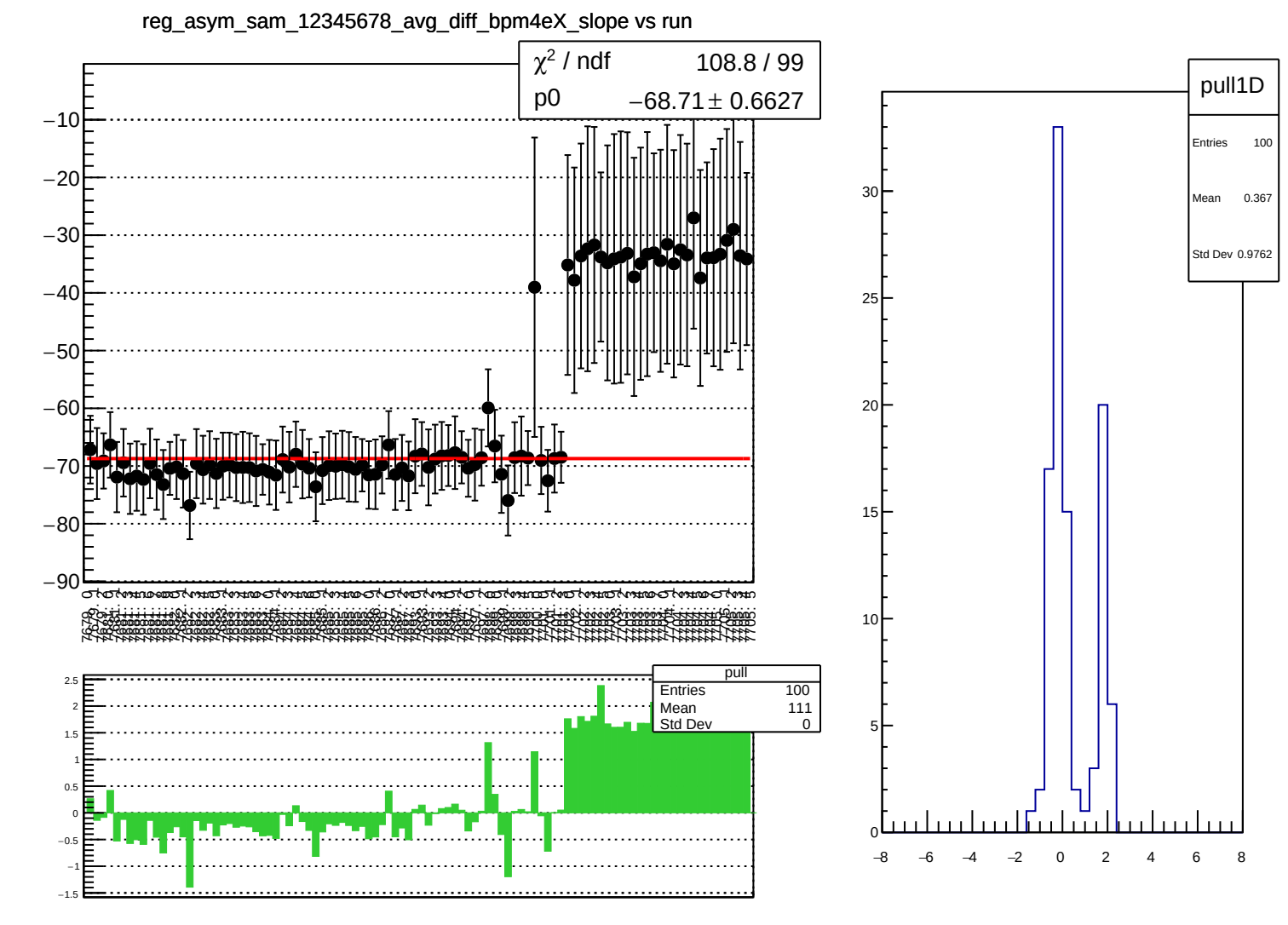

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 69.75 / 99
p0 23.91 ± 0.2366
pull
Entries 100
Mean 101.4
Std Dev 0
pull1D
Entries 100
Mean −0.2983
Std Dev 0.7801

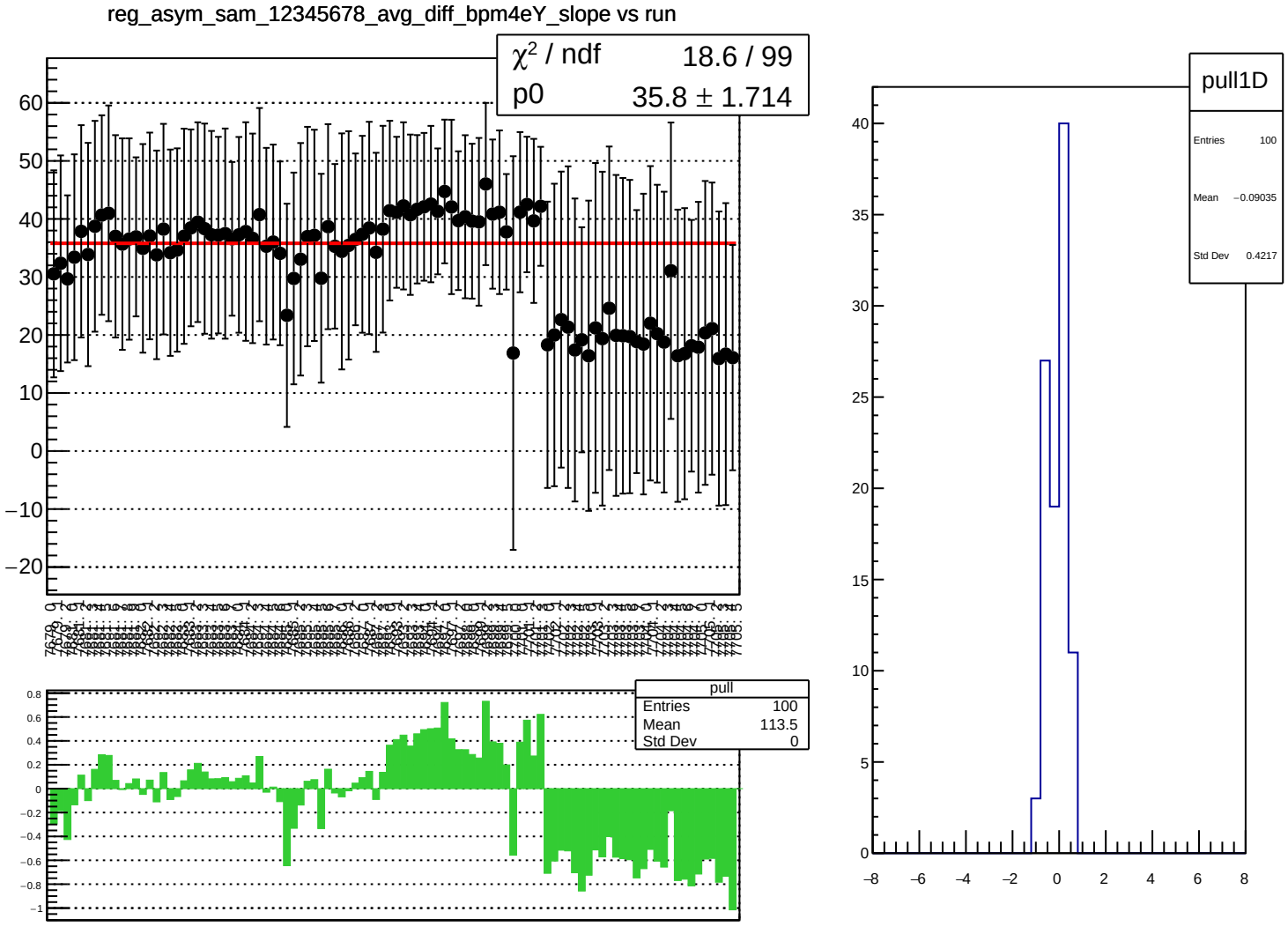

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.397 / 99
p0 −7.712 ± 0.6141
pull
Entries 100
Mean 21.65
Std Dev 46.96
pull1D
Entries 100
Mean 0.02846
Std Dev 0.1821

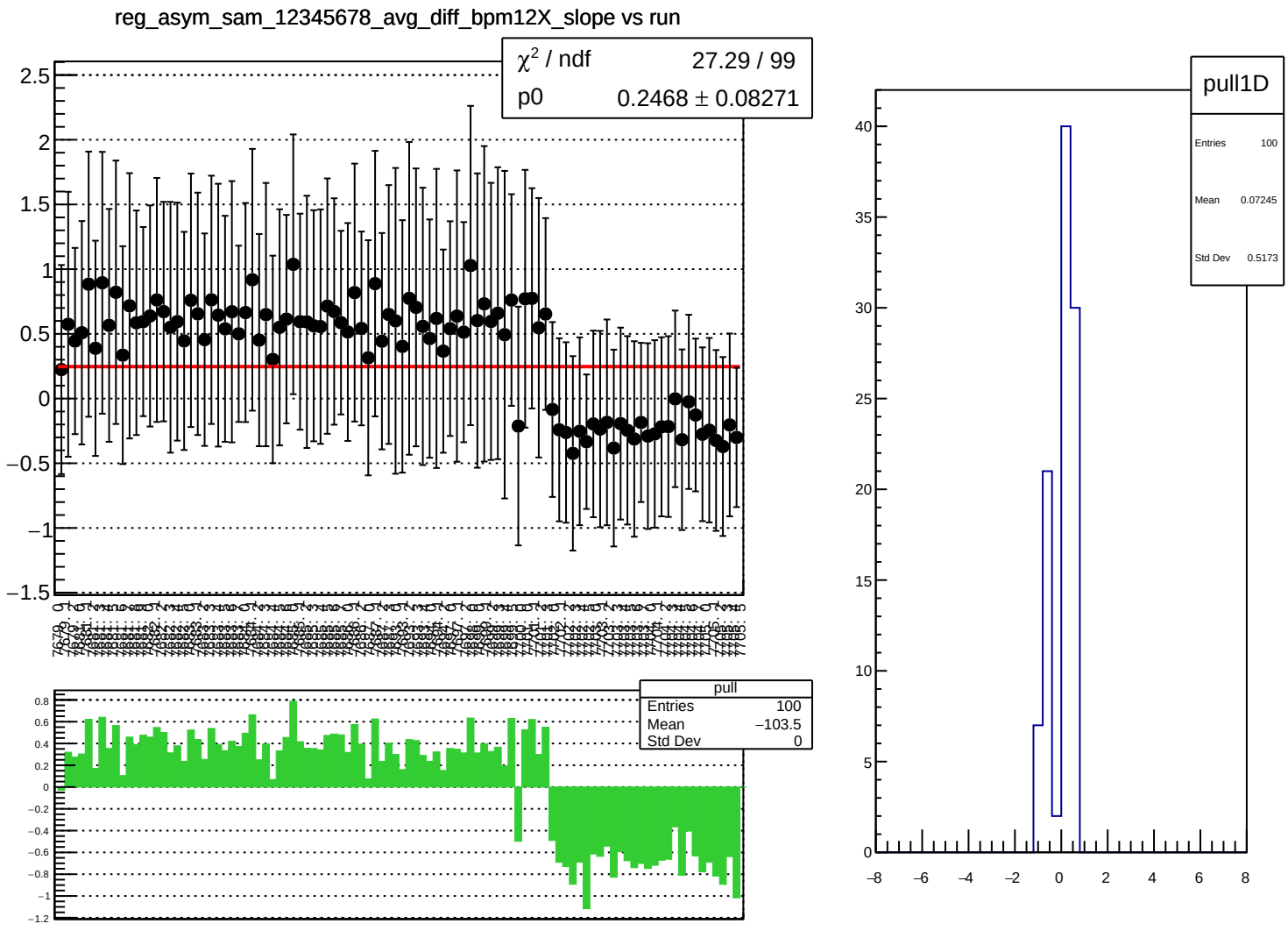

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 5.101 / 99
p0 0.1293 ± 0.02986
pull
Entries 100
Mean −83.6
Std Dev 0
pull1D
Entries 100
Mean 0.02129
Std Dev 0.2248

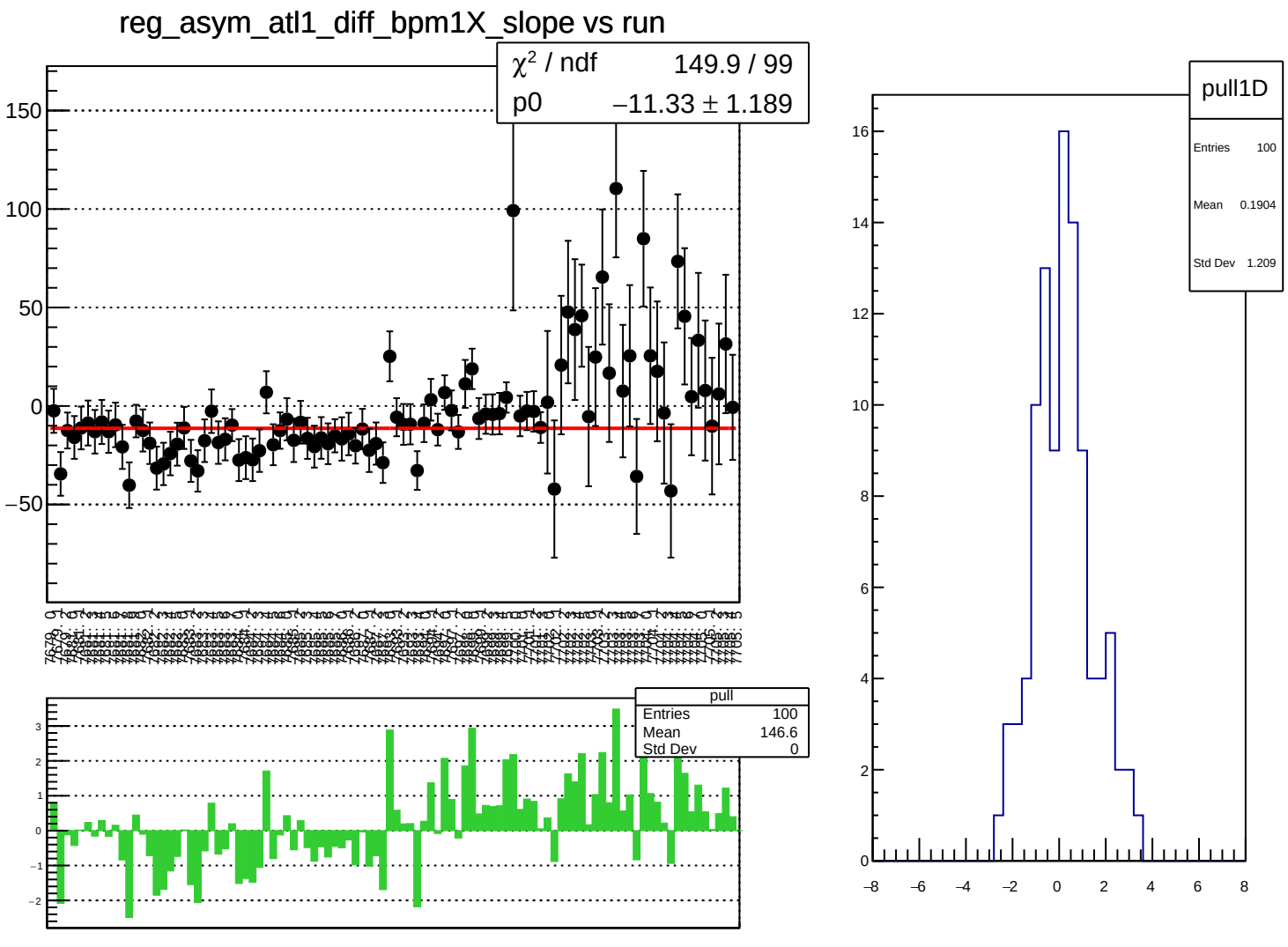

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 105.7 / 99
p0 9.211 ± 0.8211
pull
Entries 100
Mean 110.8
Std Dev 0
pull1D
Entries 100
Mean −0.3425
Std Dev 0.9692

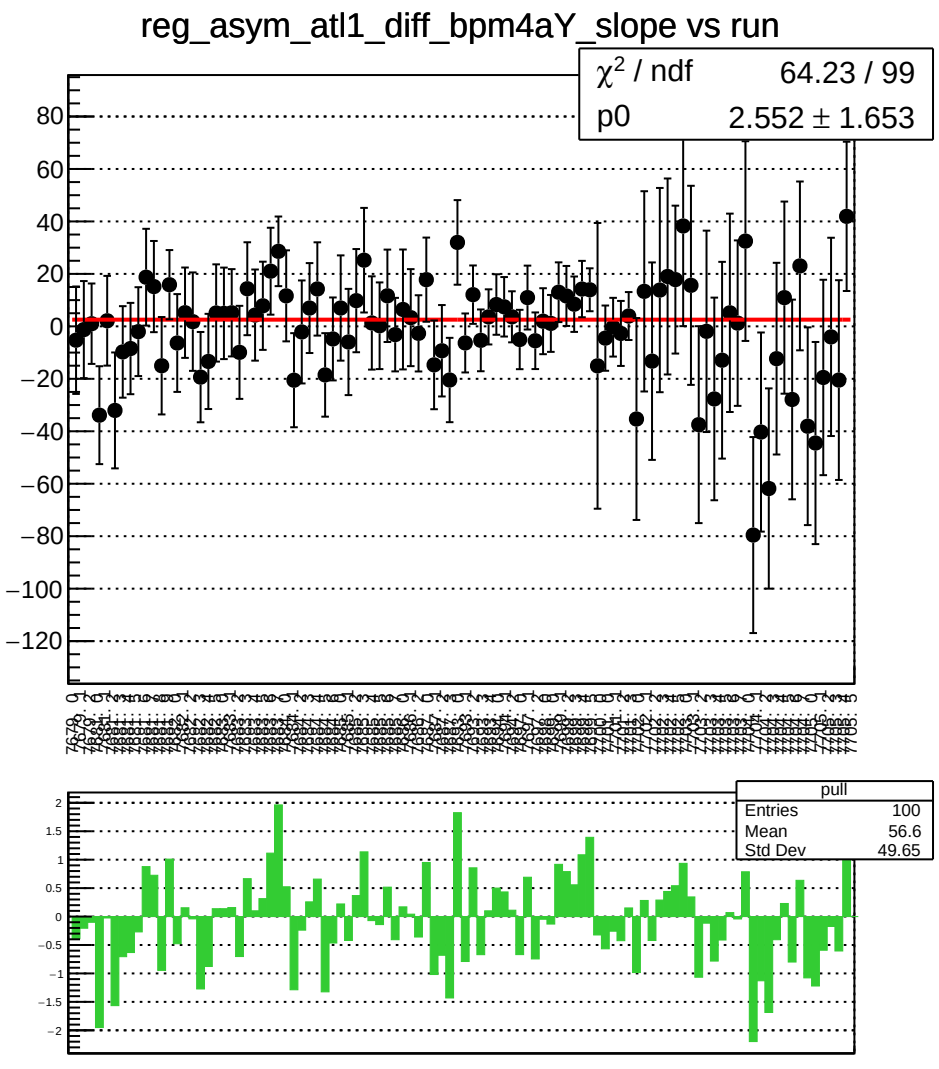

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 24.69 / 99
p0 −1.638 ± 1.161
pull
Entries 100
Mean 100.4
Std Dev 0
pull1D
Entries 100
Mean 0.1486
Std Dev 0.4742

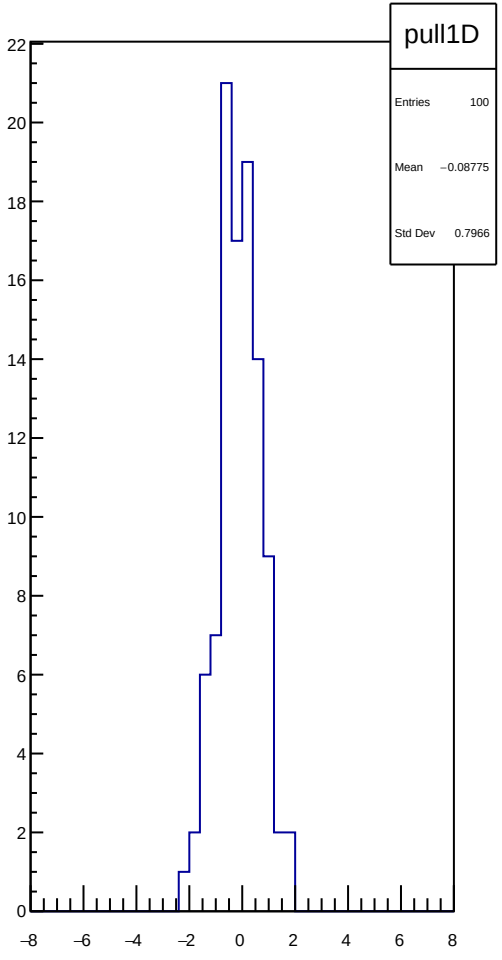

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 108.8 / 99
p0 −68.71 ± 0.6627
pull
Entries 100
Mean 111
Std Dev 0
pull1D
Entries 100
Mean 0.367
Std Dev 0.9762

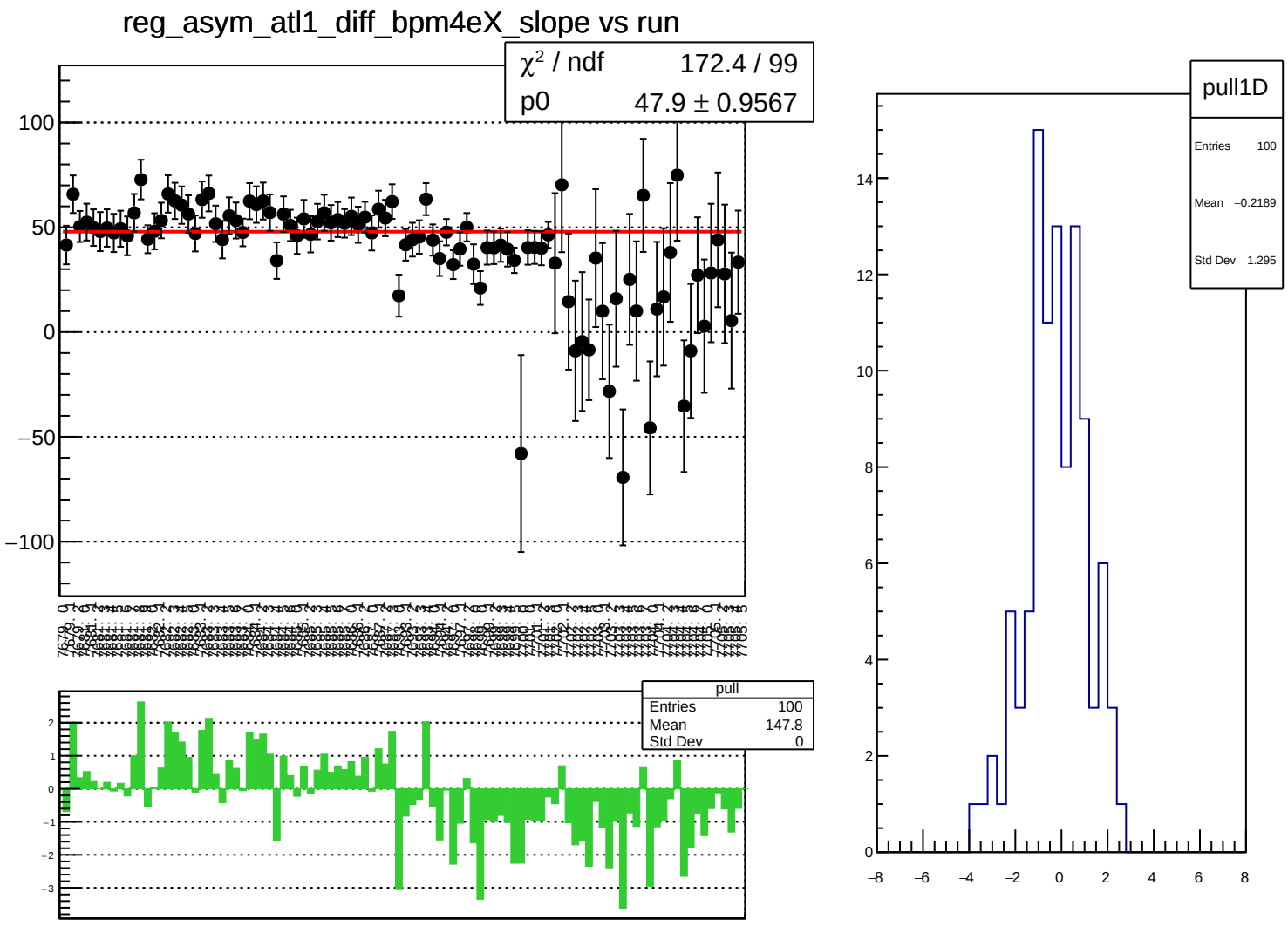

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 18.6 / 99
p0 35.8 ± 1.714
pull
Entries 100
Mean 113.5
Std Dev 0
pull1D
Entries 100
Mean −0.09035
Std Dev 0.4217

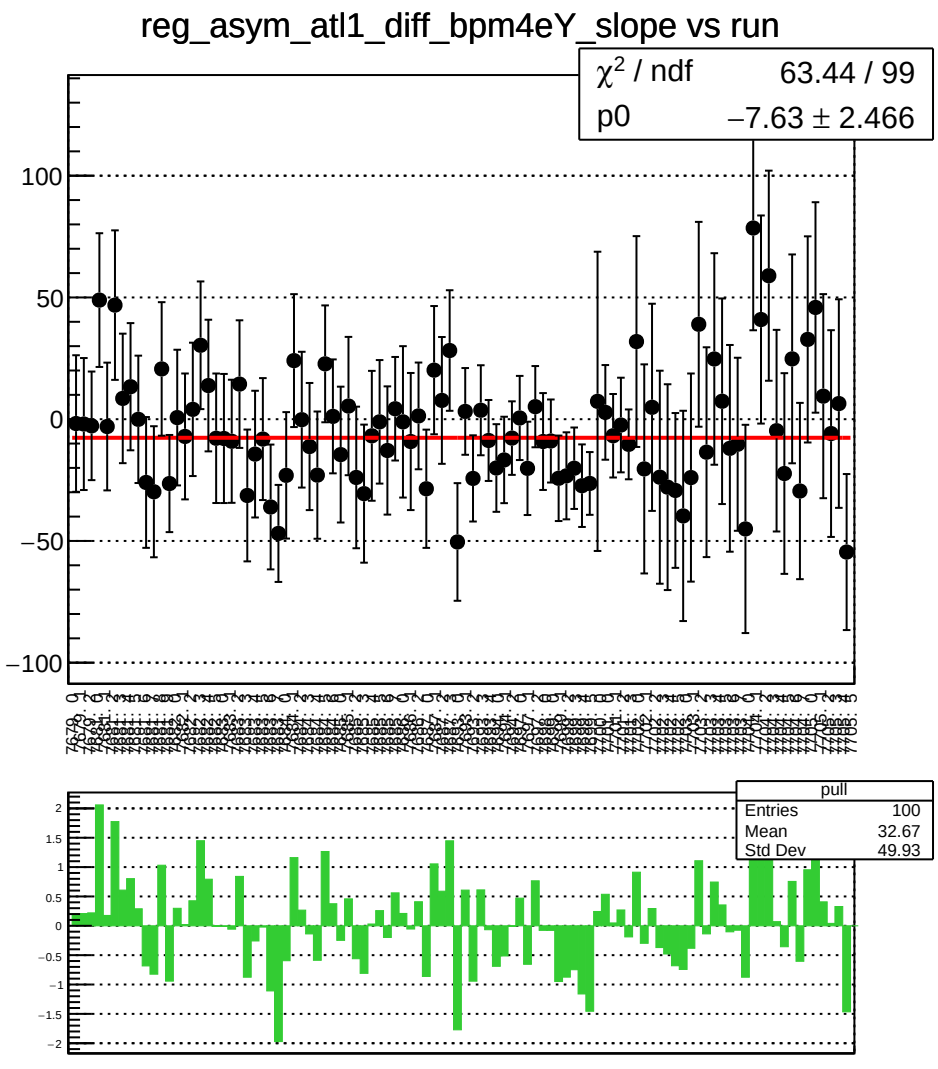

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 27.29 / 99
p0 0.2468 ± 0.08271
pull
Entries 100
Mean −103.5
Std Dev 0
pull1D
Entries 100
Mean 0.07245
Std Dev 0.5173

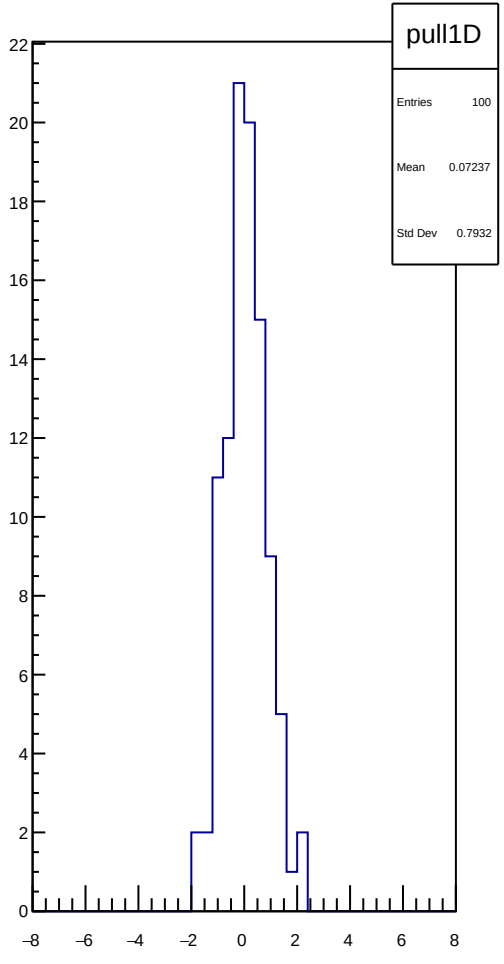

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 149.9 / 99
p0 −11.33 ± 1.189
150
100
50
0
−50
pull
Entries 100
Mean 146.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.1904
Std Dev 1.209
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

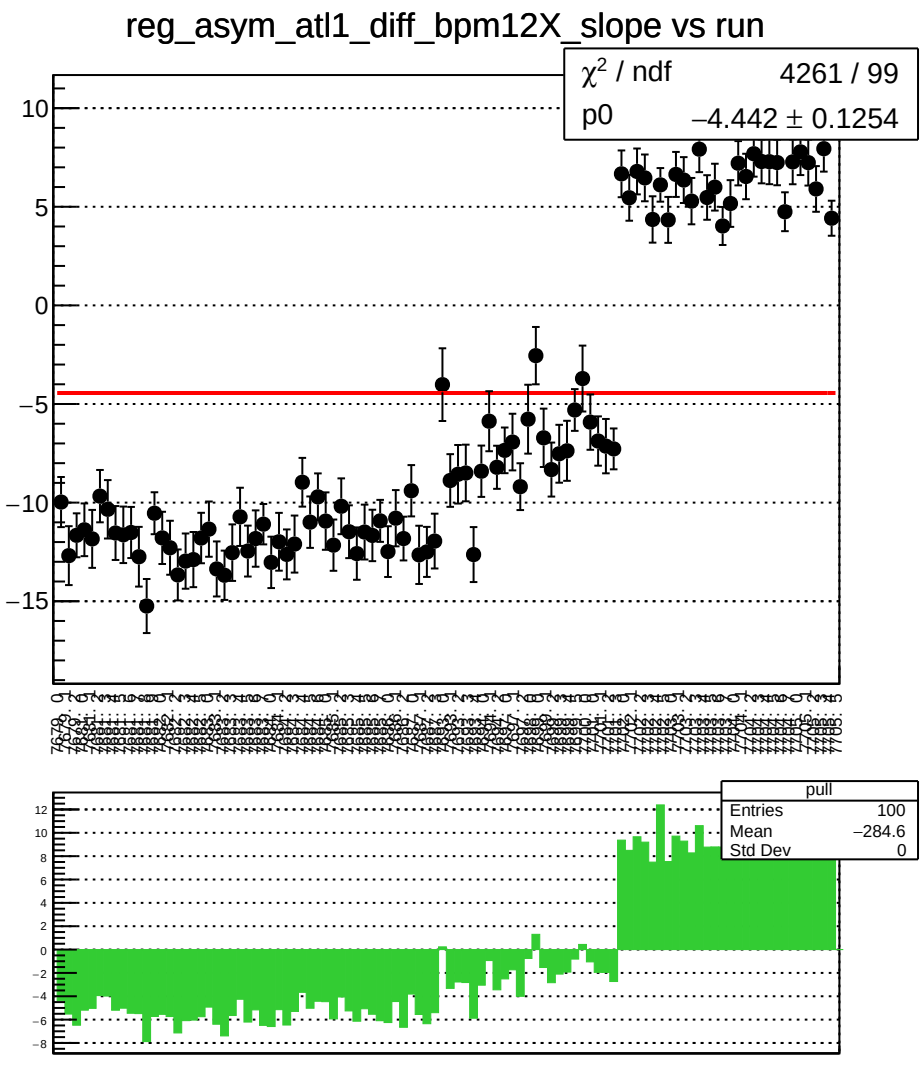

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 64.23 / 99
p0 2.552 ± 1.653
pull
Entries 100
Mean 56.6
Std Dev 49.65

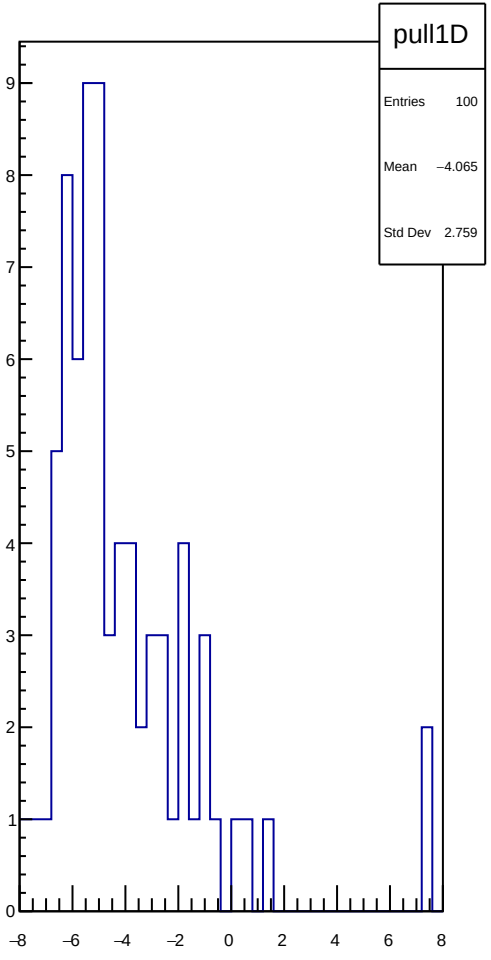

pull1D
Entries 100
Mean −0.08775
Std Dev 0.7966

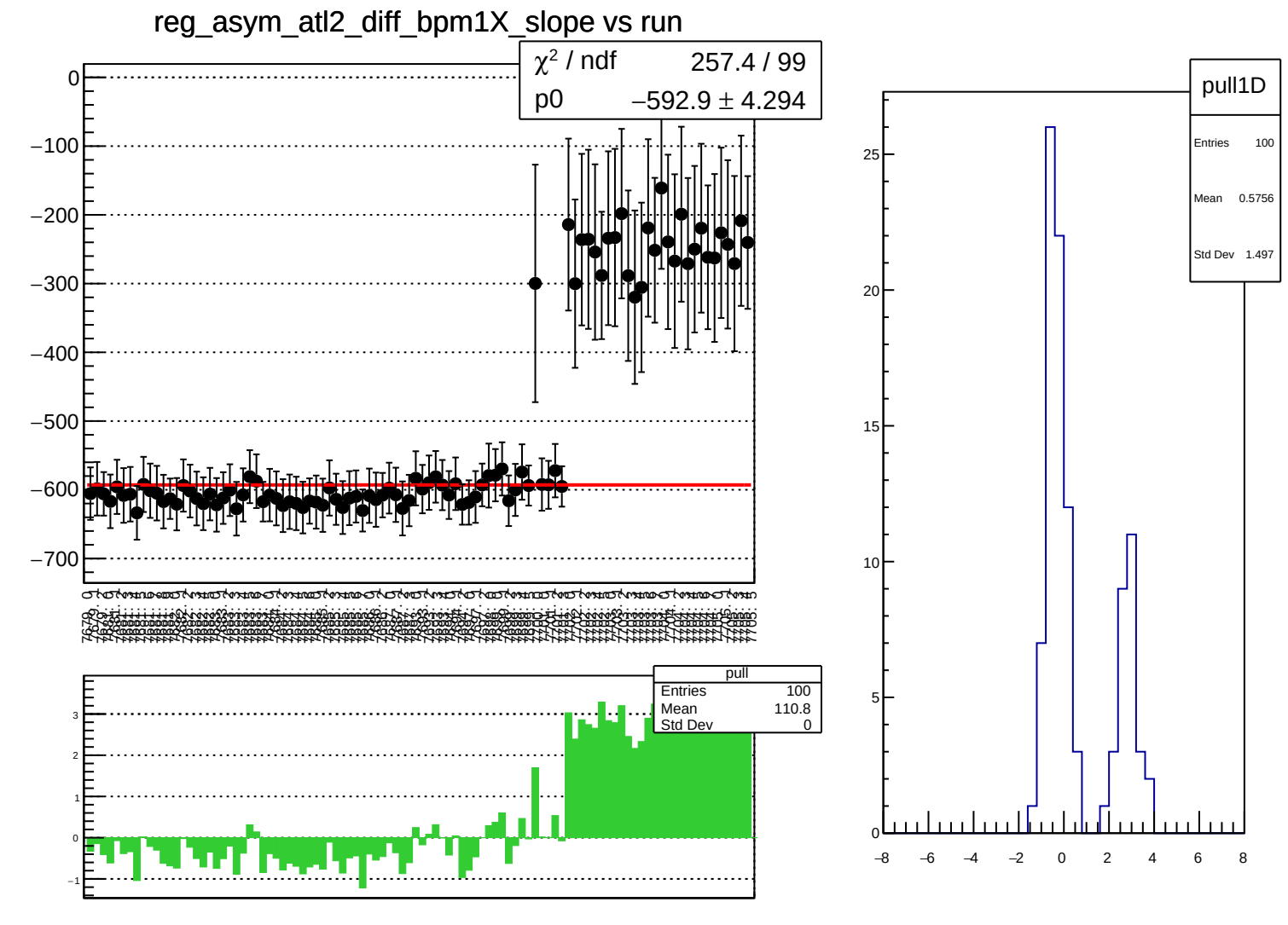

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 172.4 / 99
p0 47.9 ± 0.9567
100
50
0
−50
−100
pull
Entries 100
Mean 147.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean −0.2189
Std Dev 1.295
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

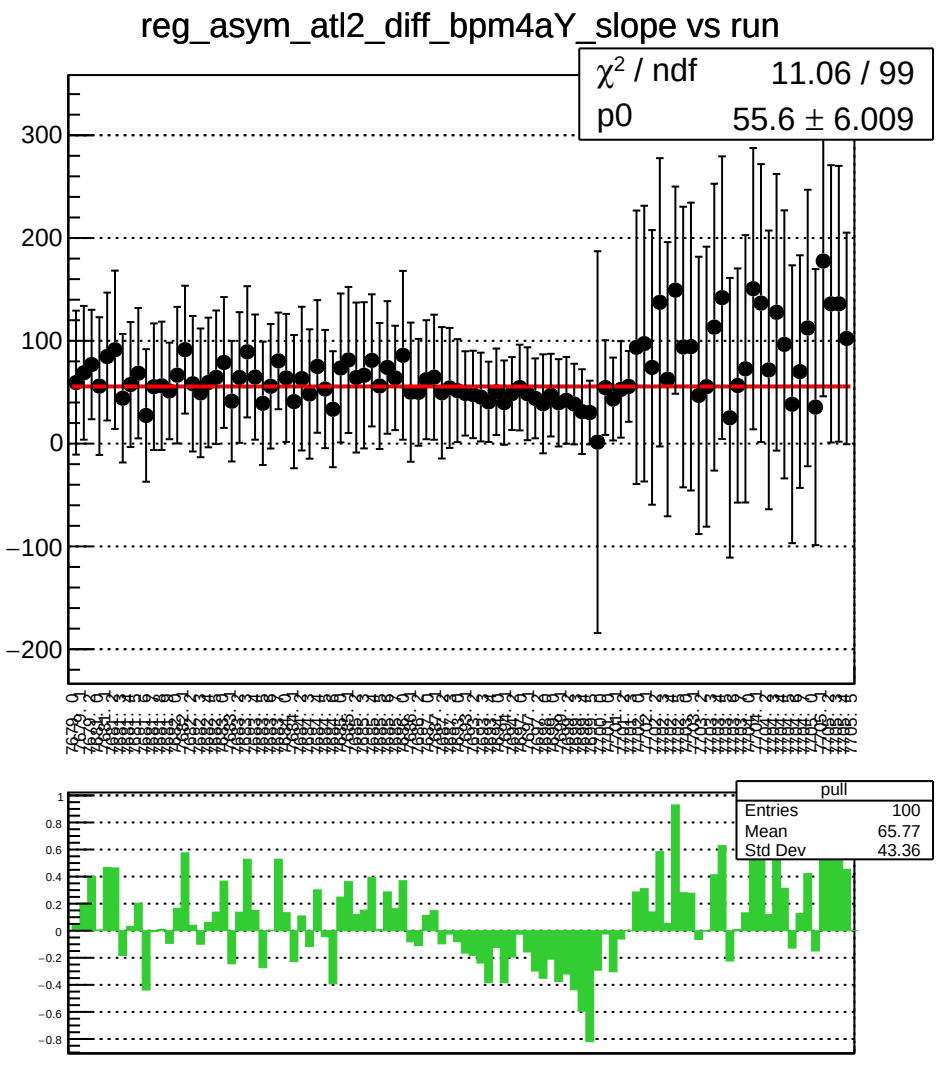

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 63.44 / 99
p0 −7.63 ± 2.466
100
50
0
−50
−100
pull
Entries 100
Mean 32.67
Std Dev 49.93
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

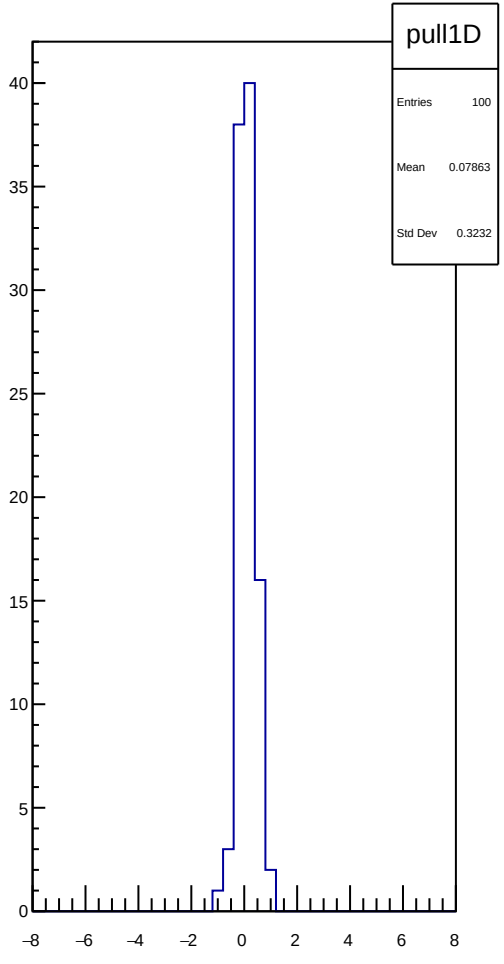

pull1D
Entries 100
Mean 0.07237
Std Dev 0.7932
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

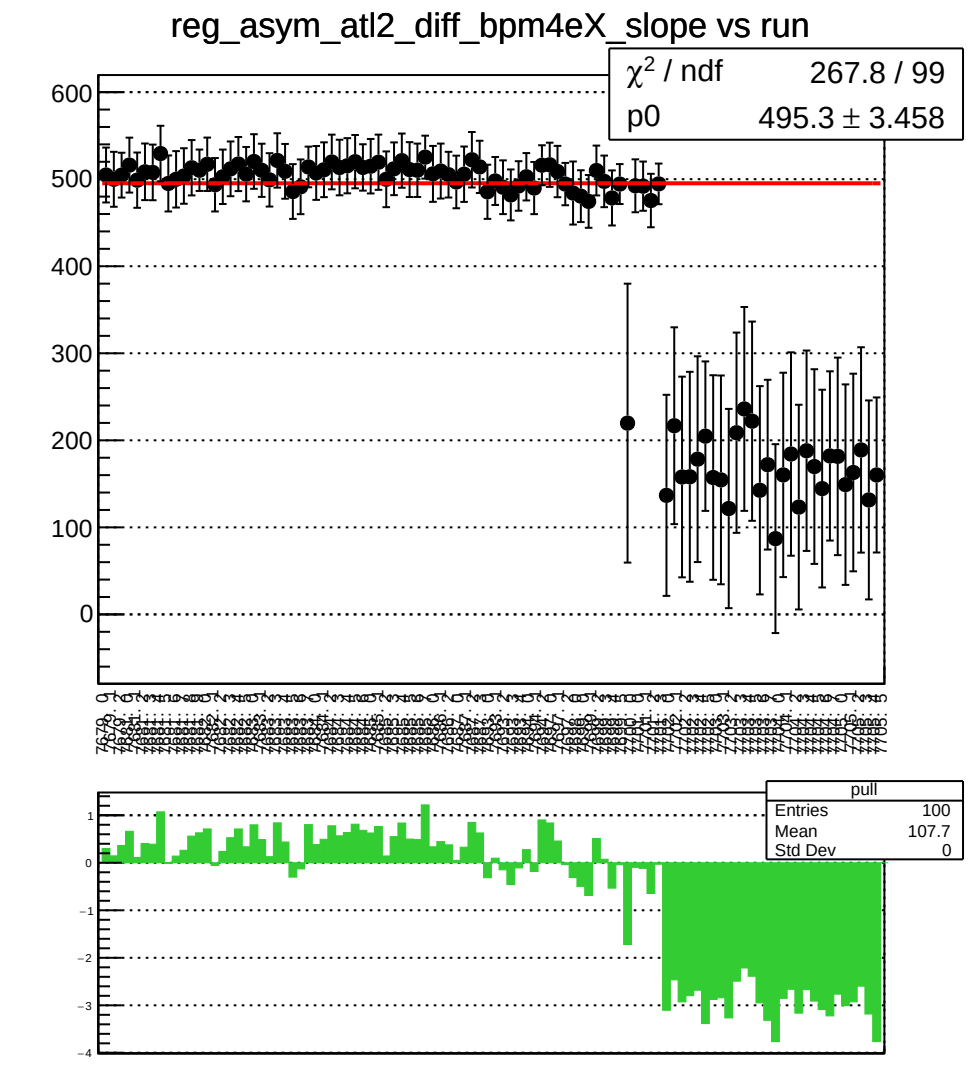

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 4261 / 99
p0 −4.442 ± 0.1254
pull
Entries 100
Mean −284.6
Std Dev 0

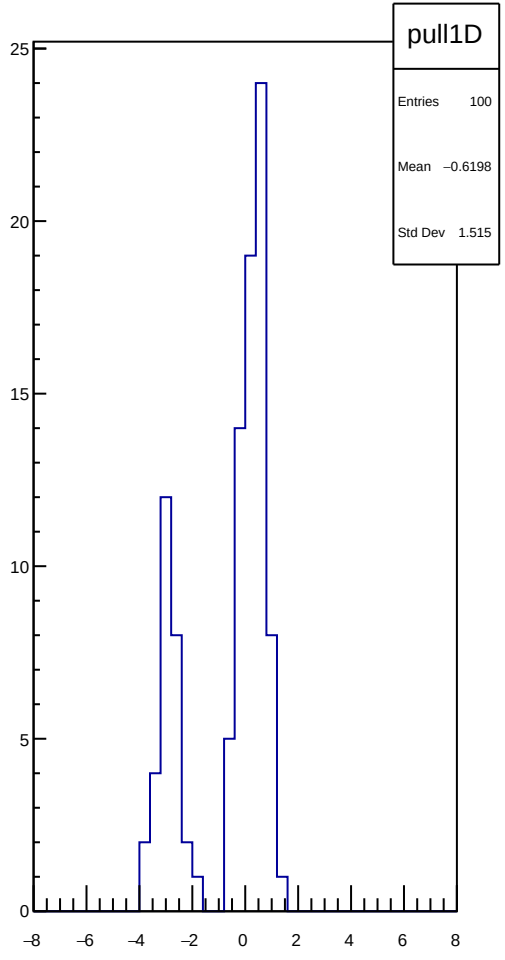

pull1D
Entries 100
Mean −4.065
Std Dev 2.759

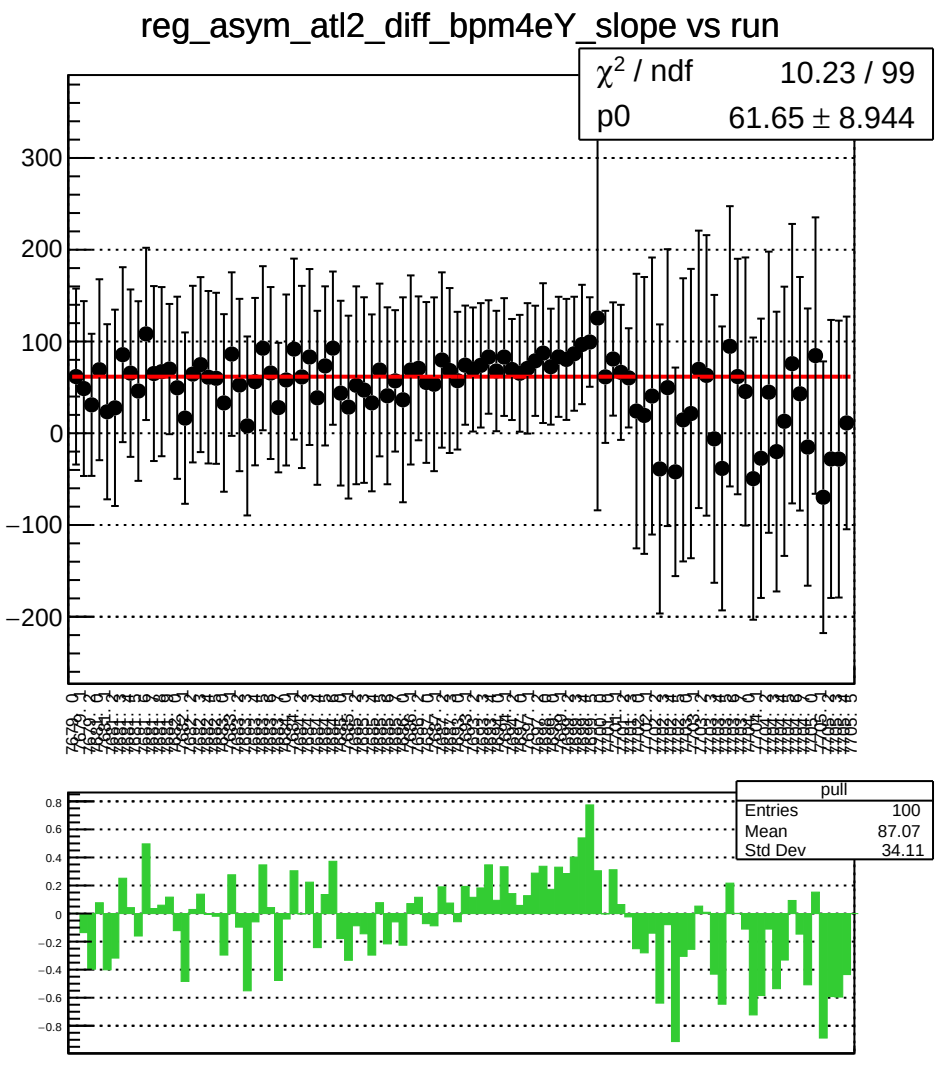

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 257.4 / 99
p0 −592.9 ± 4.294
pull
Entries 100
Mean 110.8
Std Dev 0
pull1D
Entries 100
Mean 0.5756
Std Dev 1.497

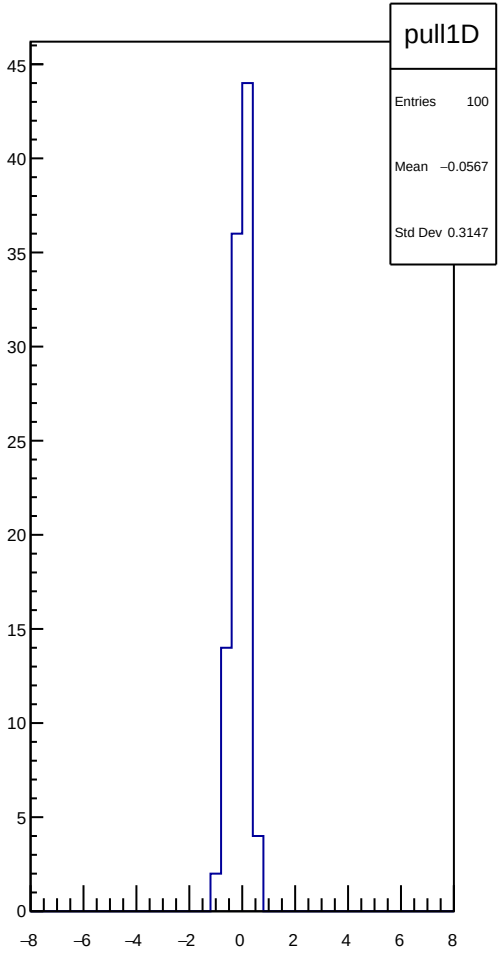

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 11.06 / 99
p0 55.6 ± 6.009
300
200
100
0
−100
−200
pull
Entries 100
Mean 65.77
Std Dev 43.36
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

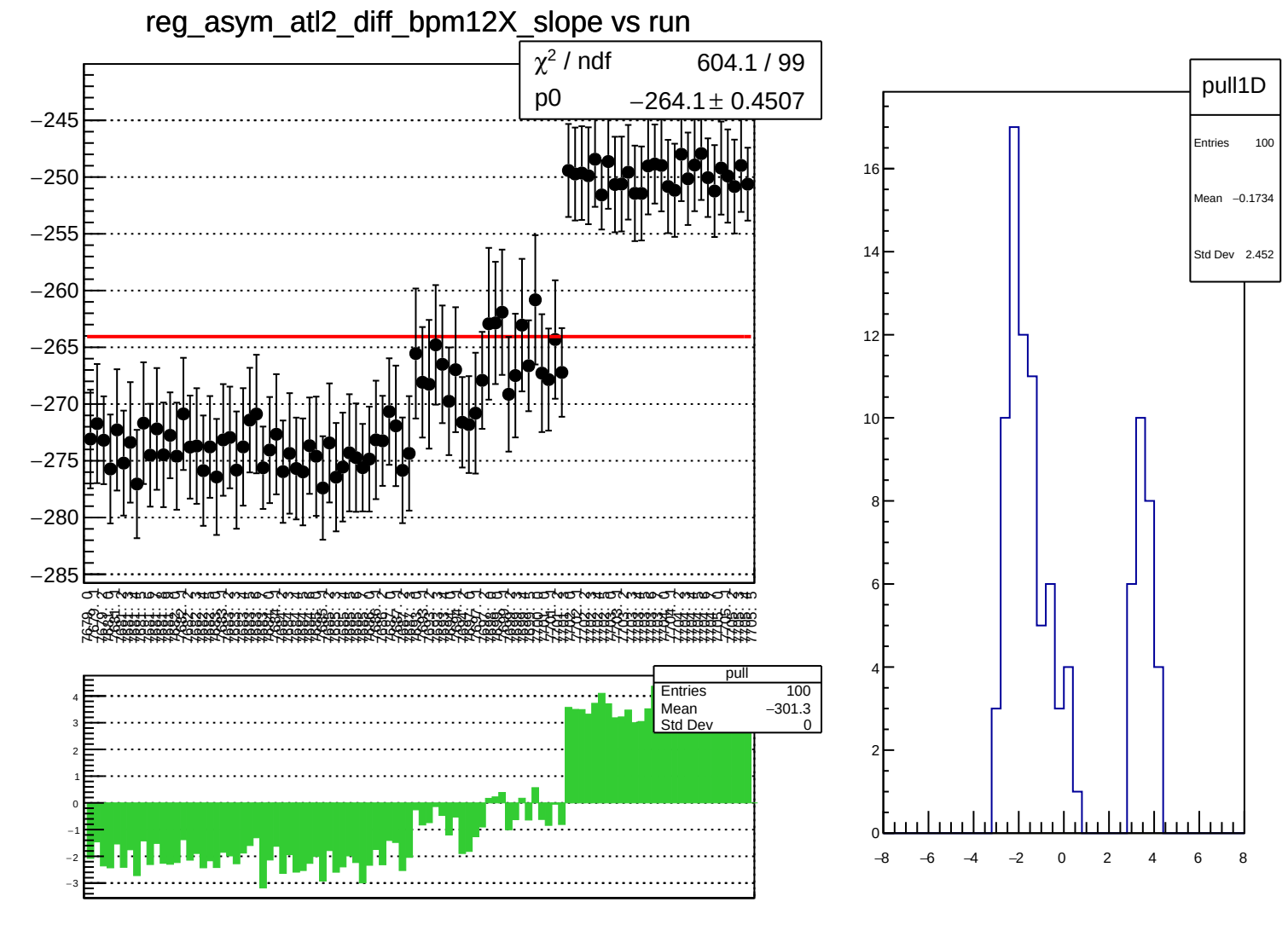

pull1D
Entries 100
Mean 0.07863
Std Dev 0.3232
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

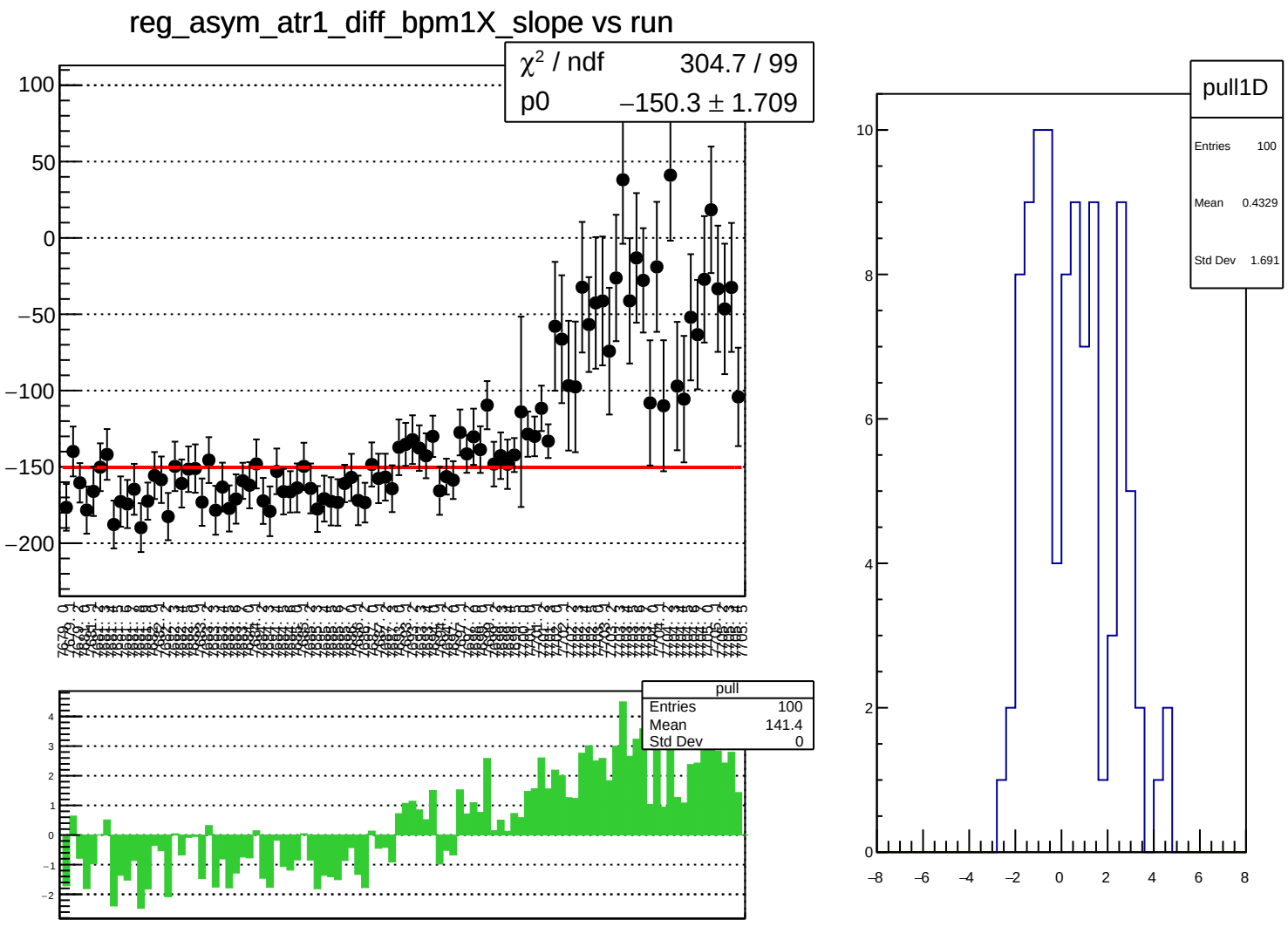

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 267.8 / 99
p0 495.3 ± 3.458
600
500
400
300
200
100
0
pull
Entries 100
Mean 107.7
Std Dev 0
1
0
−1
−2
−3
−4

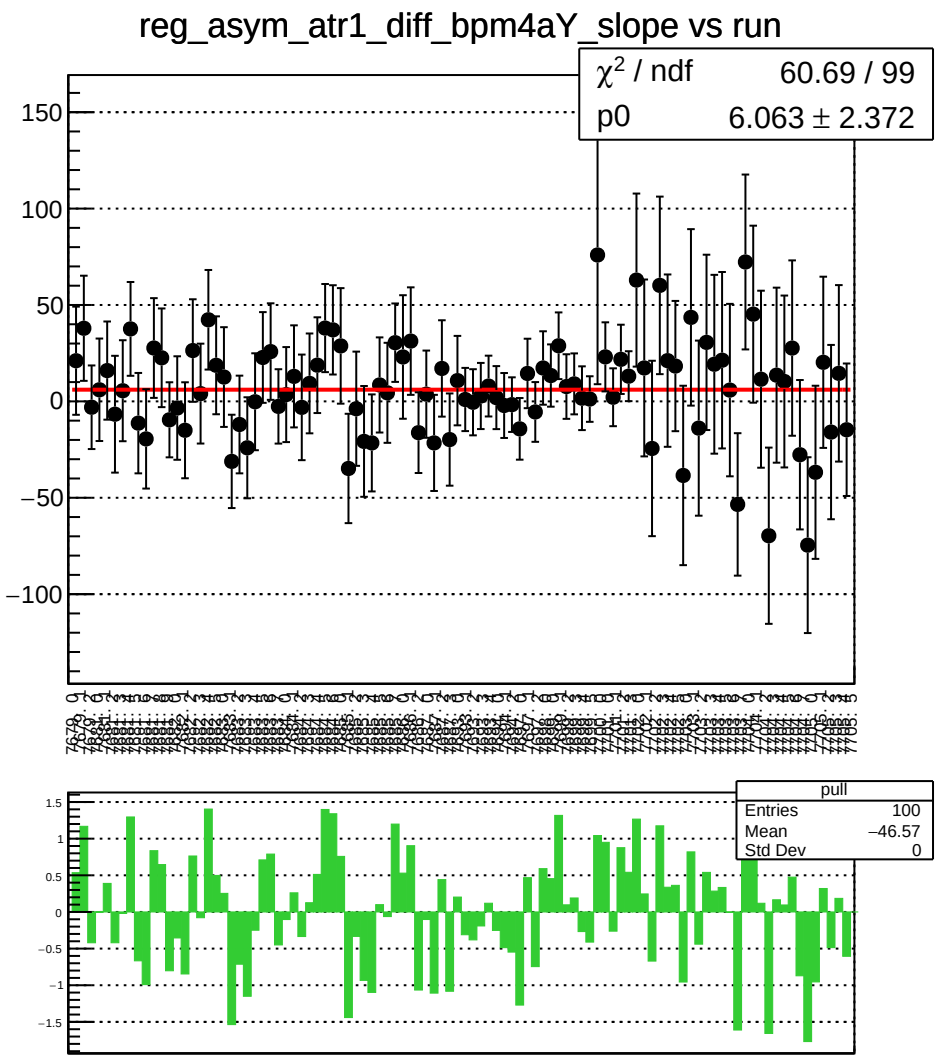

pull1D
Entries 100
Mean −0.6198
Std Dev 1.515
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

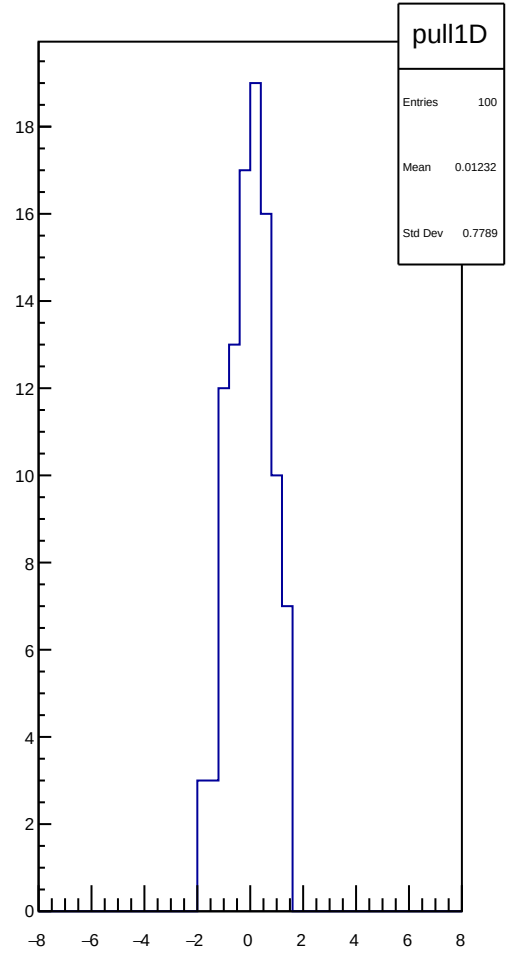

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 10.23 / 99
p0 61.65 ± 8.944
300
200
100
0
−100
−200
pull
Entries 100
Mean 87.07
Std Dev 34.11
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

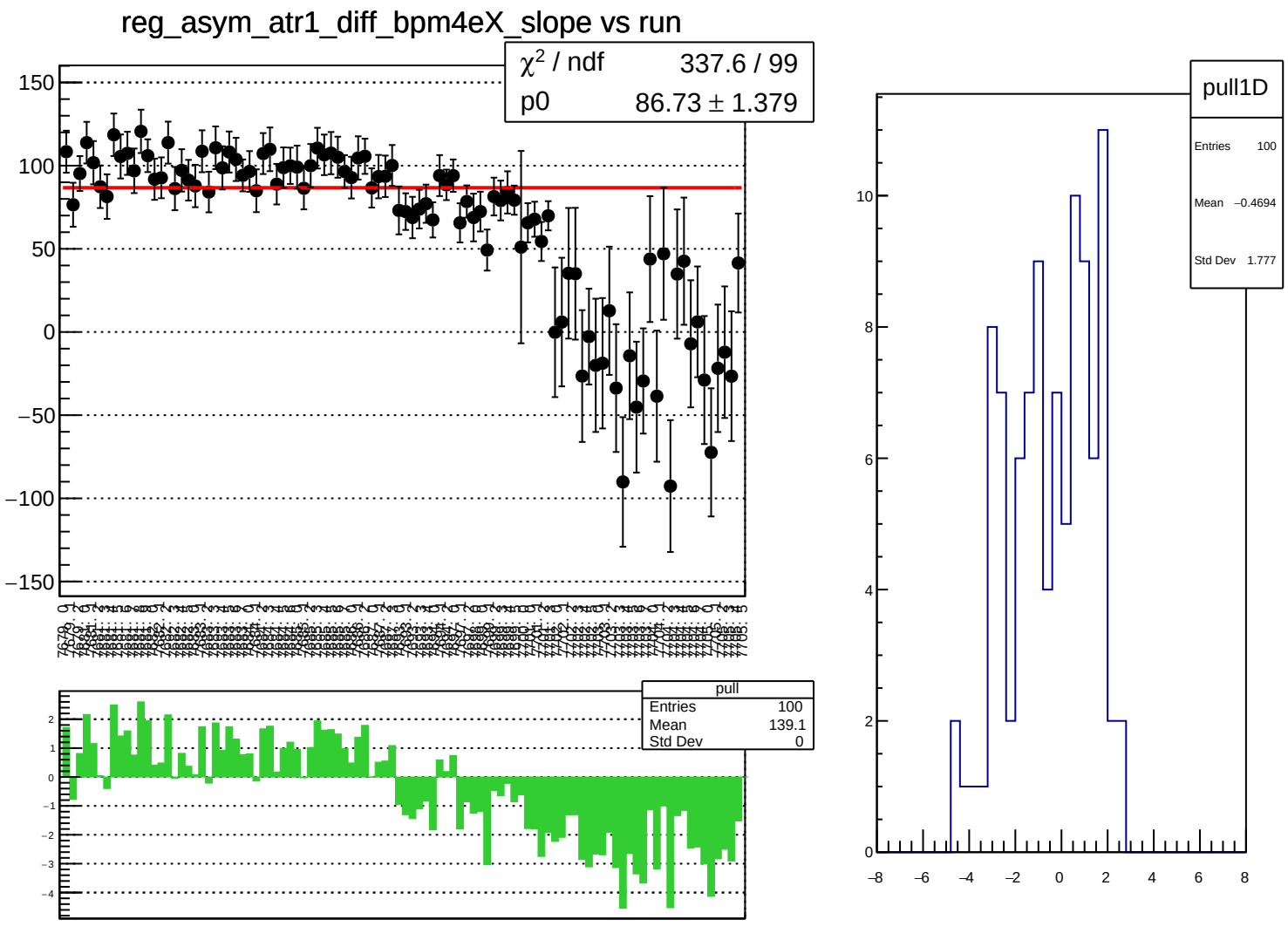

pull1D
Entries 100
Mean −0.0567
Std Dev 0.3147
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

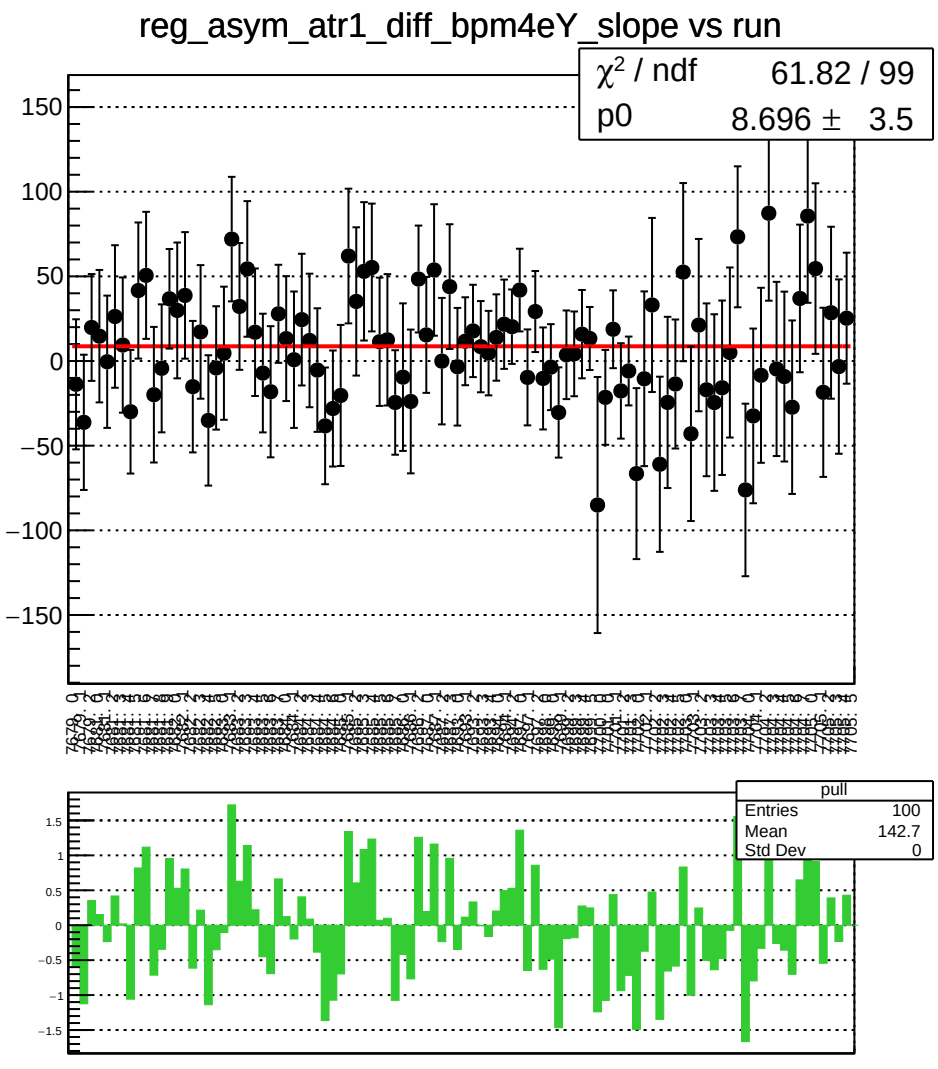

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 604.1 / 99
p0 −264.1 ± 0.4507
pull
Entries 100
Mean −301.3
Std Dev 0
pull1D
Entries 100
Mean −0.1734
Std Dev 2.452

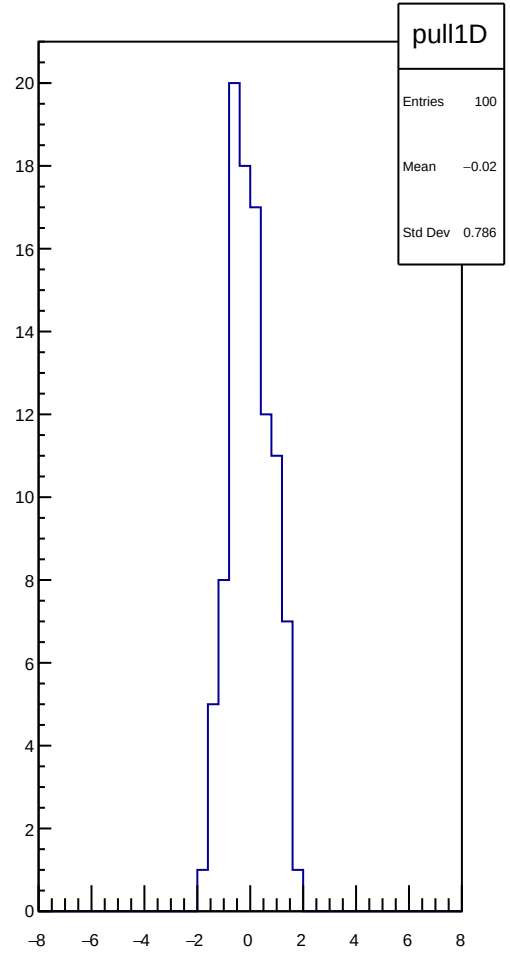

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 304.7 / 99
p0 −150.3 ± 1.709
pull
Entries 100
Mean 141.4
Std Dev 0
pull1D
Entries 100
Mean 0.4329
Std Dev 1.691

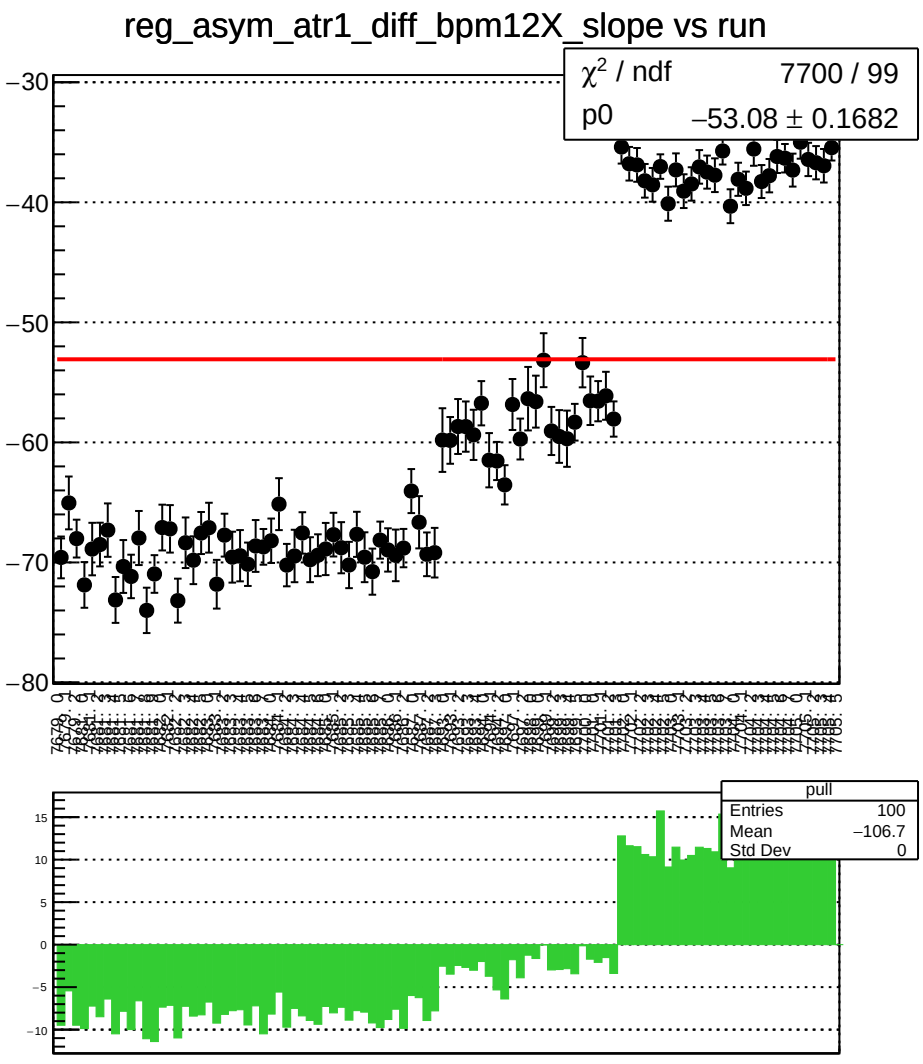

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 60.69 / 99
p0 6.063 ± 2.372
150
100
50
0
−50
−100
pull
Entries 100
Mean −46.57
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

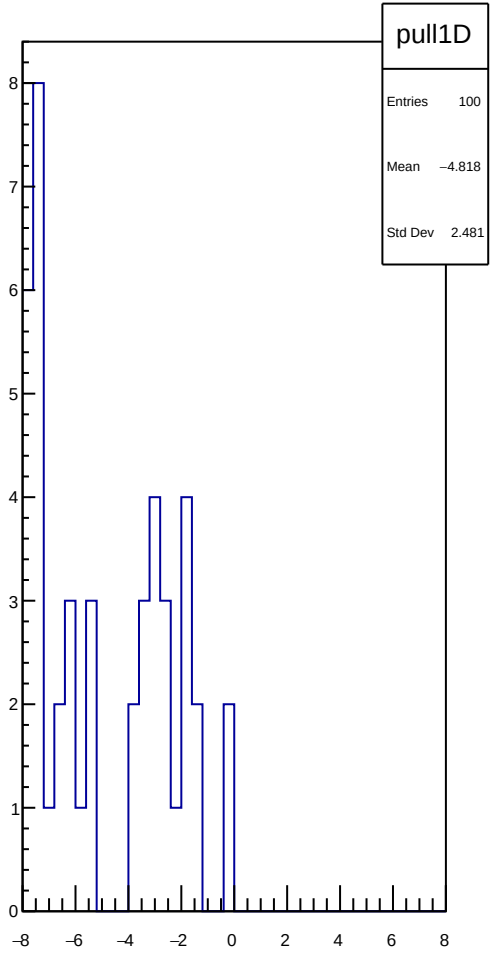

pull1D
Entries 100
Mean 0.01232
Std Dev 0.7789
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

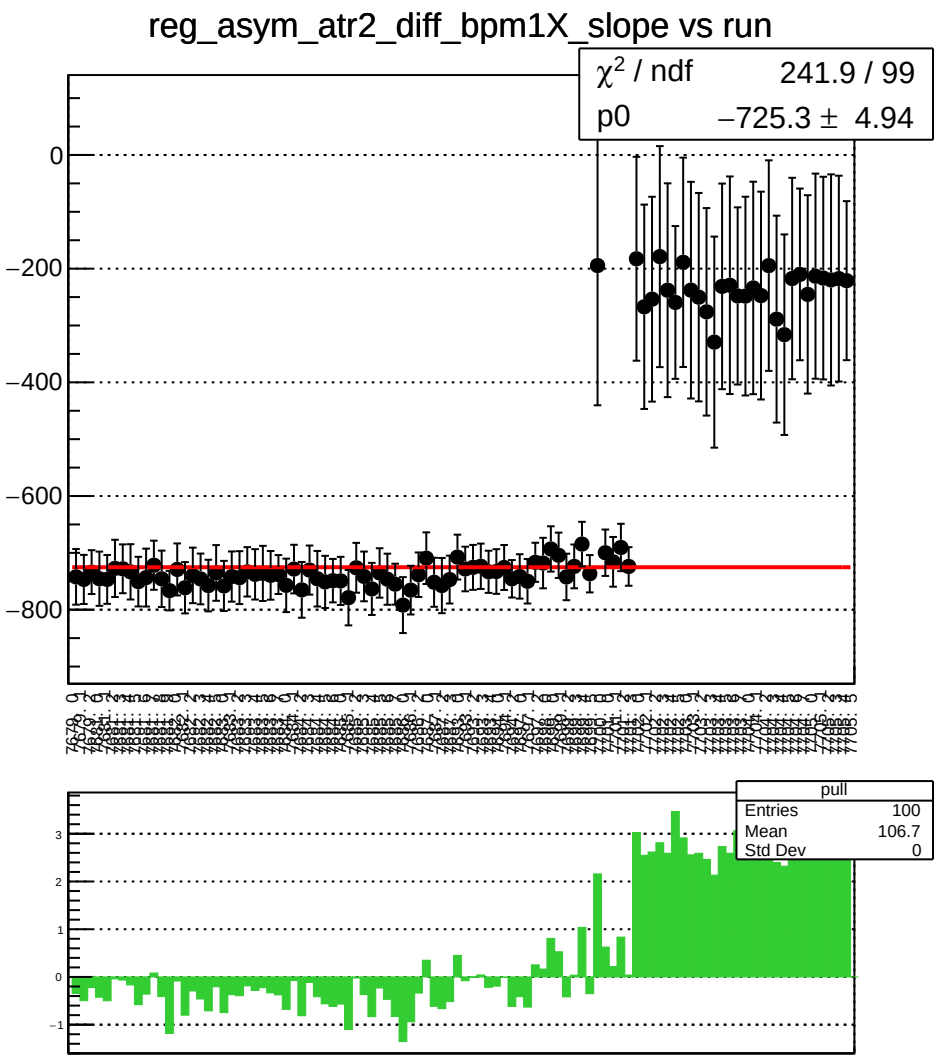

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 337.6 / 99
p0 86.73 ± 1.379
150
100
50
0
−50
−100
−150
pull
Entries 100
Mean 139.1
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 100
Mean −0.4694
Std Dev 1.777
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

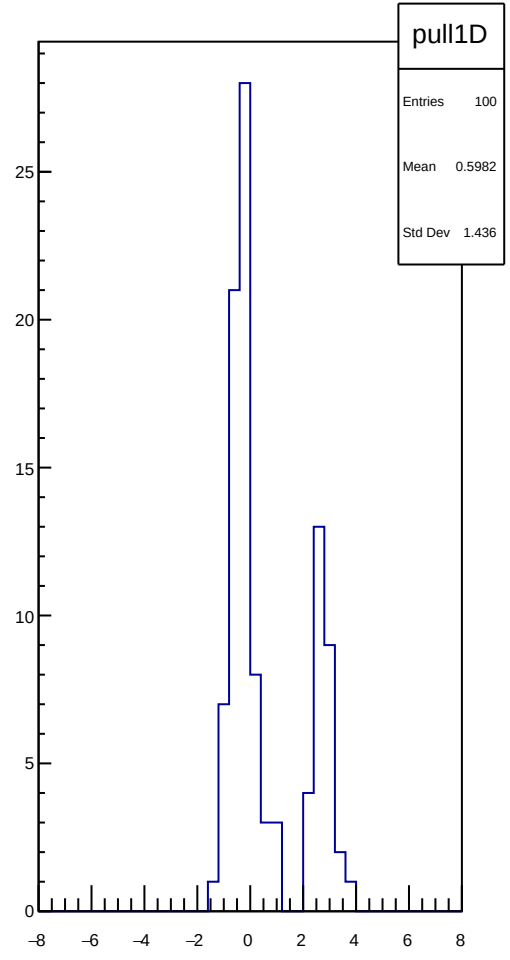

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 61.82 / 99
p0 8.696 ± 3.5
150
100
50
0
−50
−100
−150
pull
Entries 100
Mean 142.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

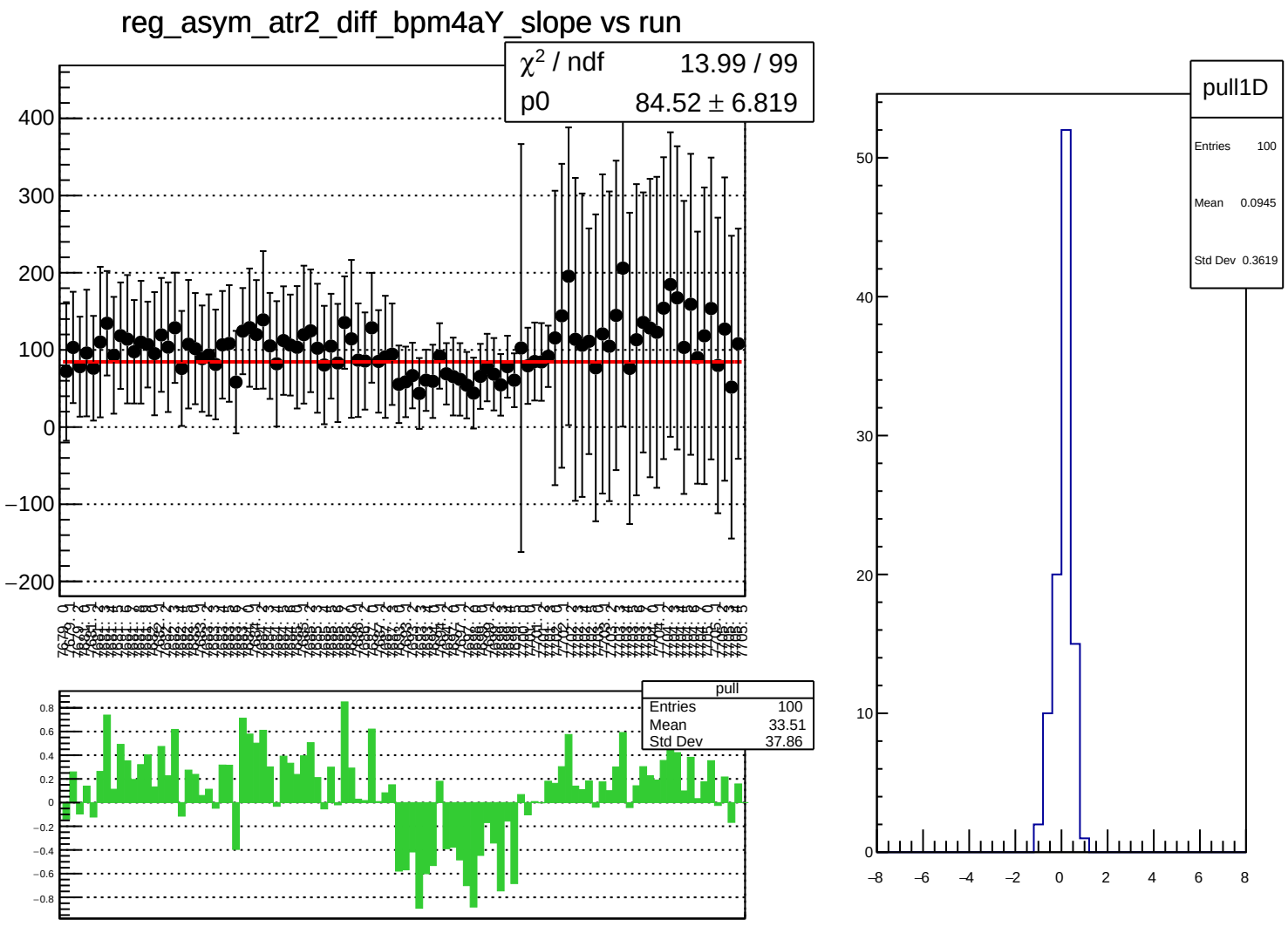

pull1D
Entries 100
Mean −0.02
Std Dev 0.786
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

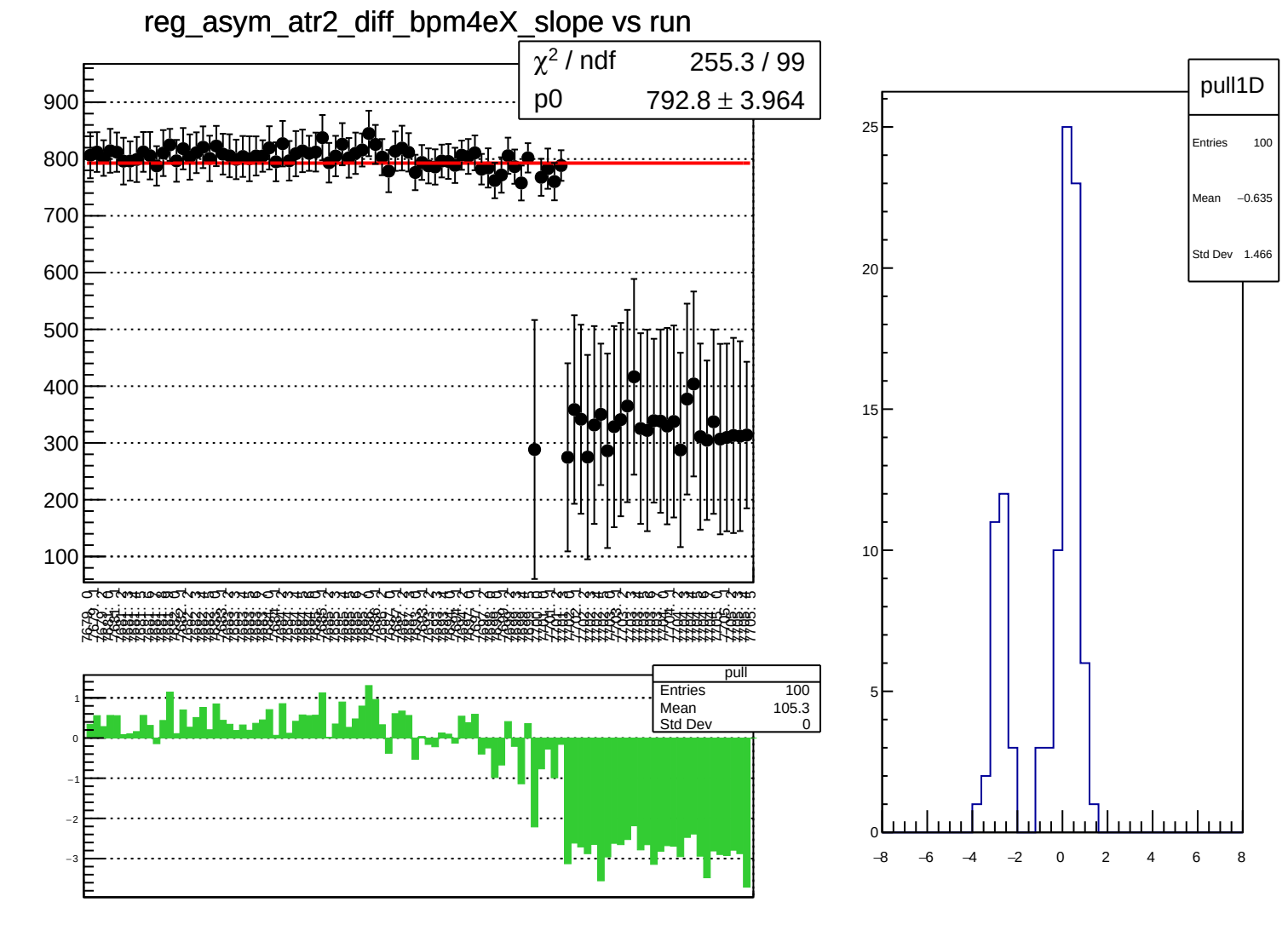

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 7700 / 99
p0 −53.08 ± 0.1682
pull
Entries 100
Mean −106.7
Std Dev 0

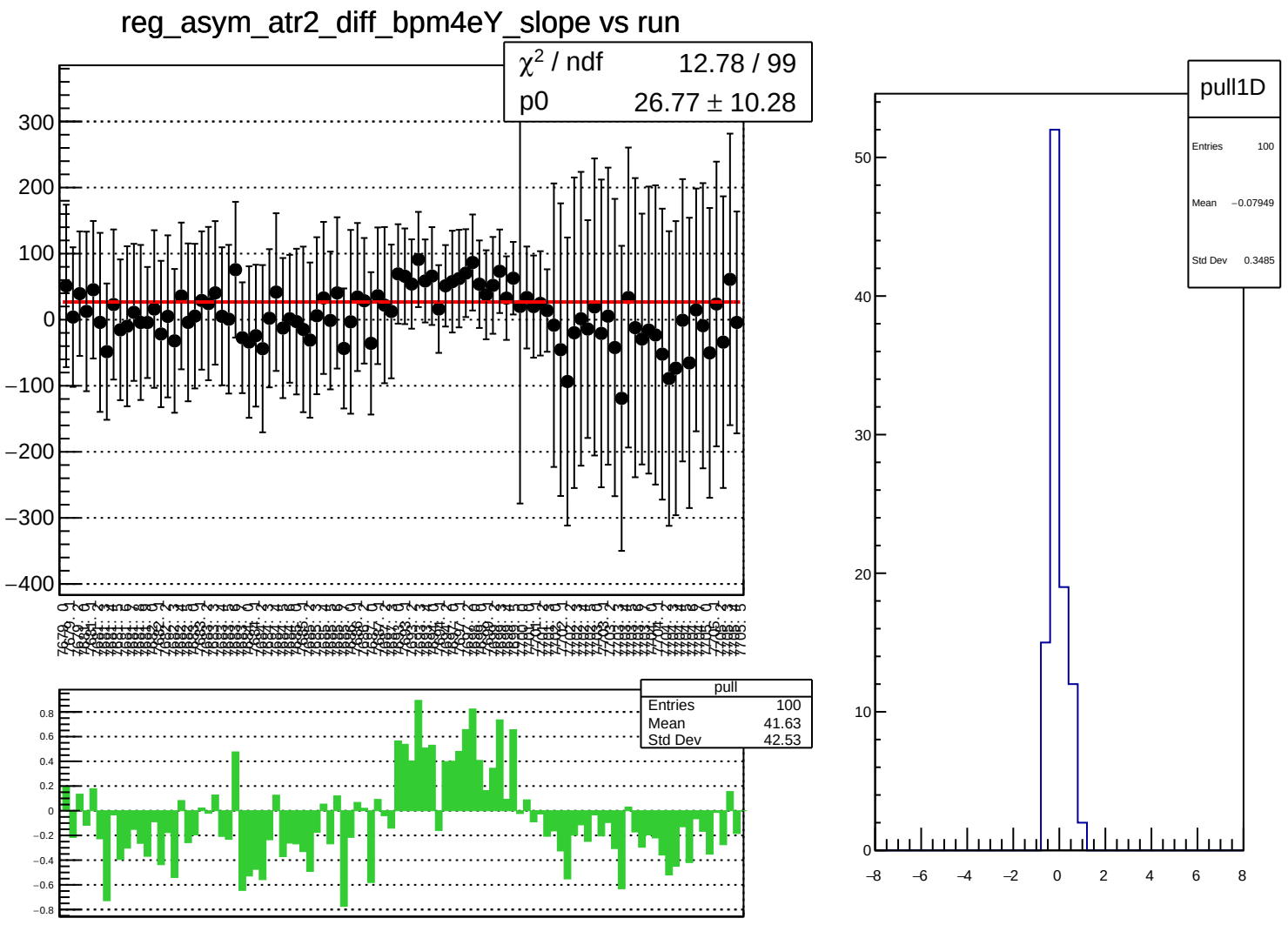

pull1D
Entries 100
Mean −4.818
Std Dev 2.481

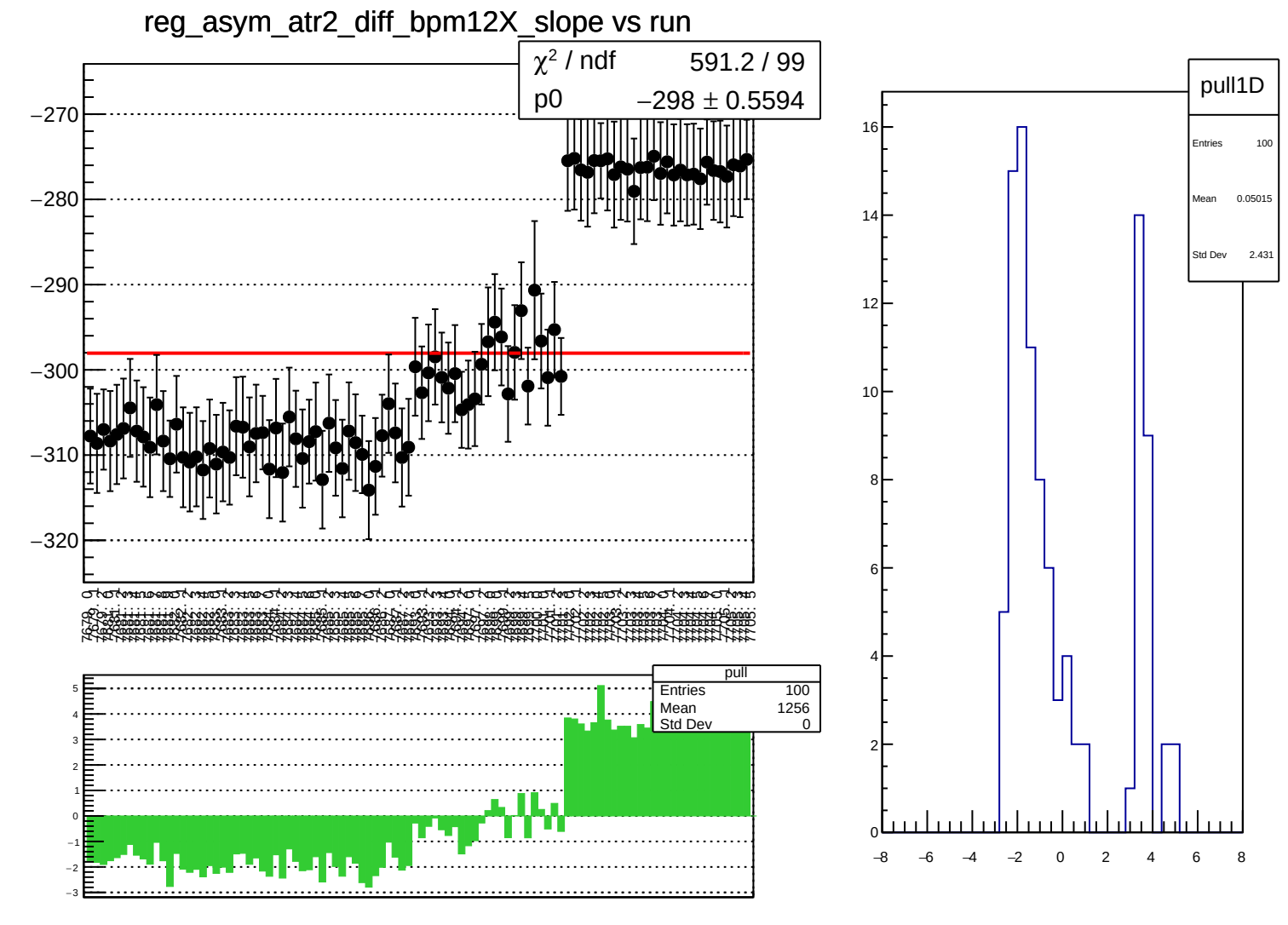

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 241.9 / 99
p0 −725.3 ± 4.94
0
−200
−400
−600
−800
pull
Entries 100
Mean 106.7
Std Dev 0
3
2
1
0
−1

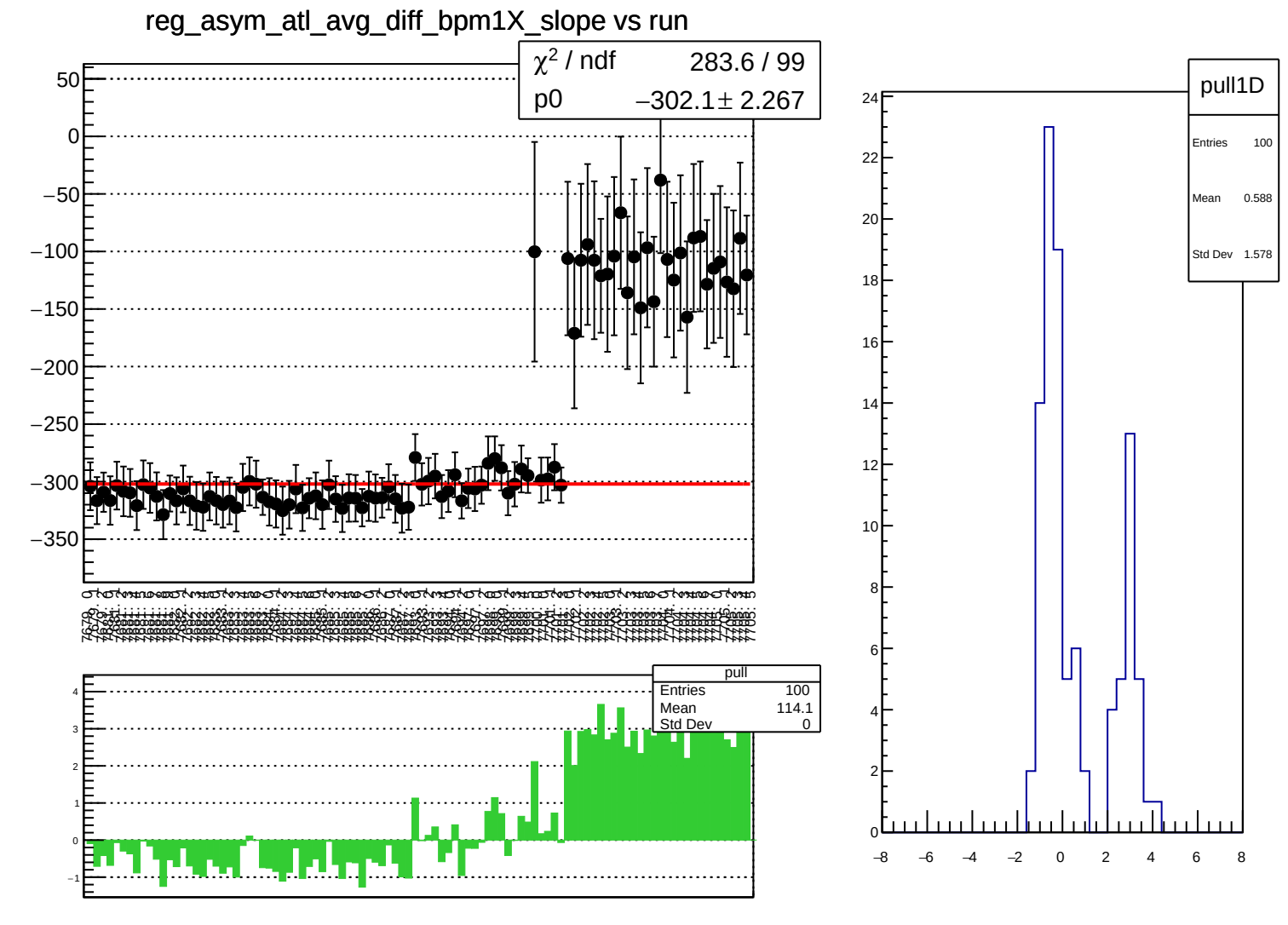

pull1D
Entries 100
Mean 0.5982
Std Dev 1.436
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

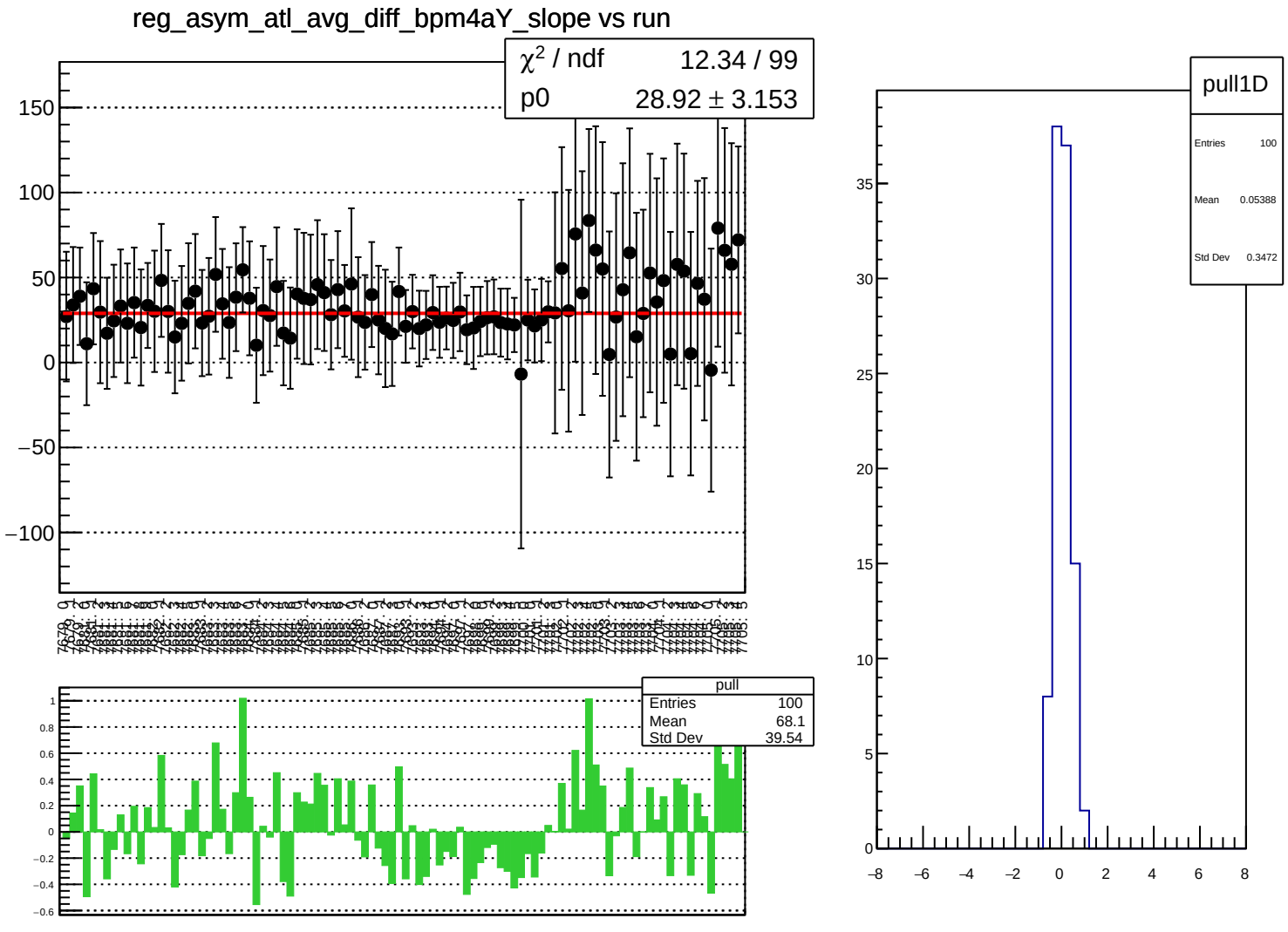

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 13.99 / 99
p0 84.52 ± 6.819
400
300
200
100
0
−100
−200
pull
Entries 100
Mean 33.51
Std Dev 37.86
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 100
Mean 0.0945
Std Dev 0.3619
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

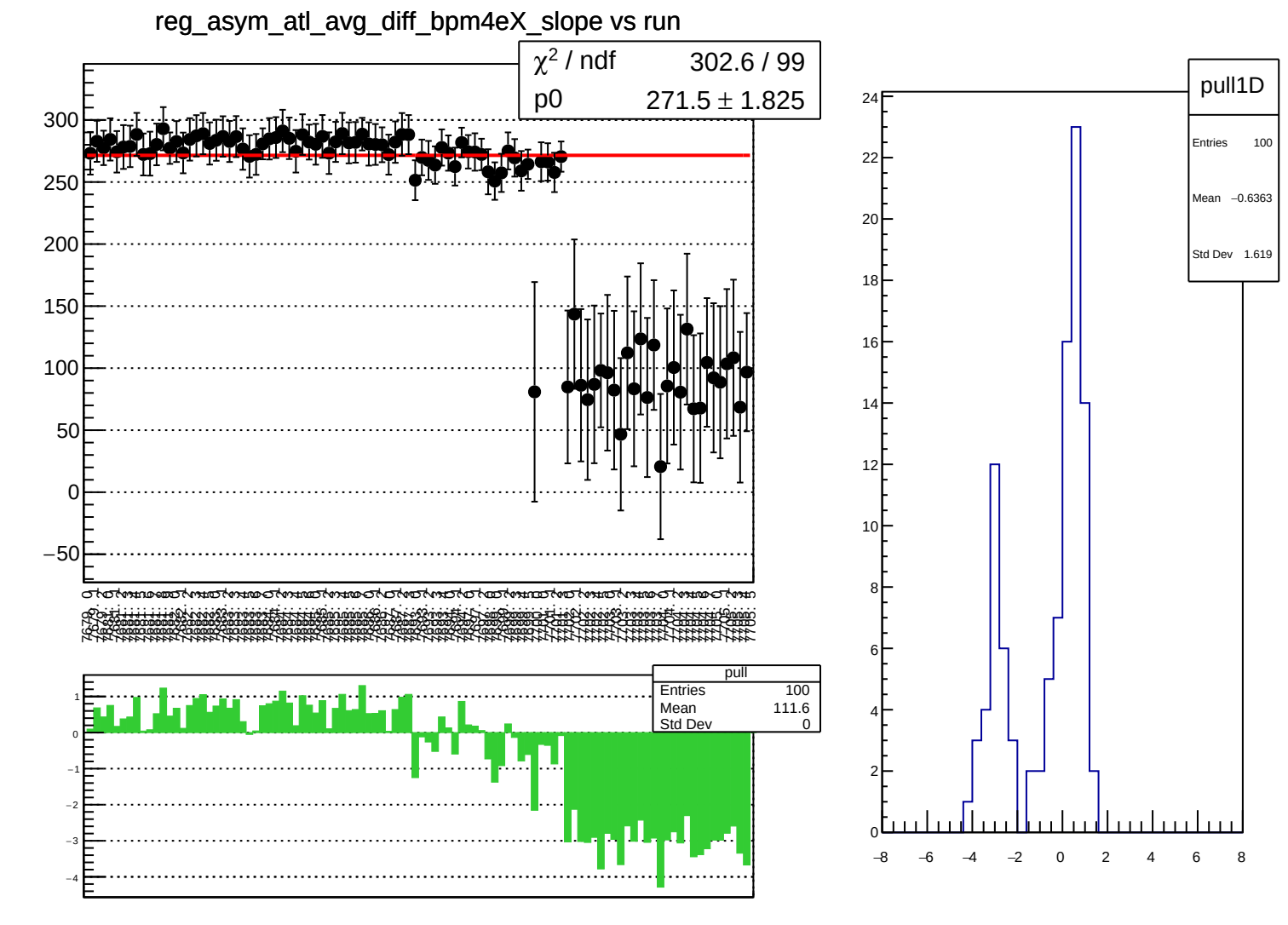

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 255.3 / 99
p0 792.8 ± 3.964
900
800
700
600
500
400
300
200
100
pull
Entries 100
Mean 105.3
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 100
Mean −0.635
Std Dev 1.466
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

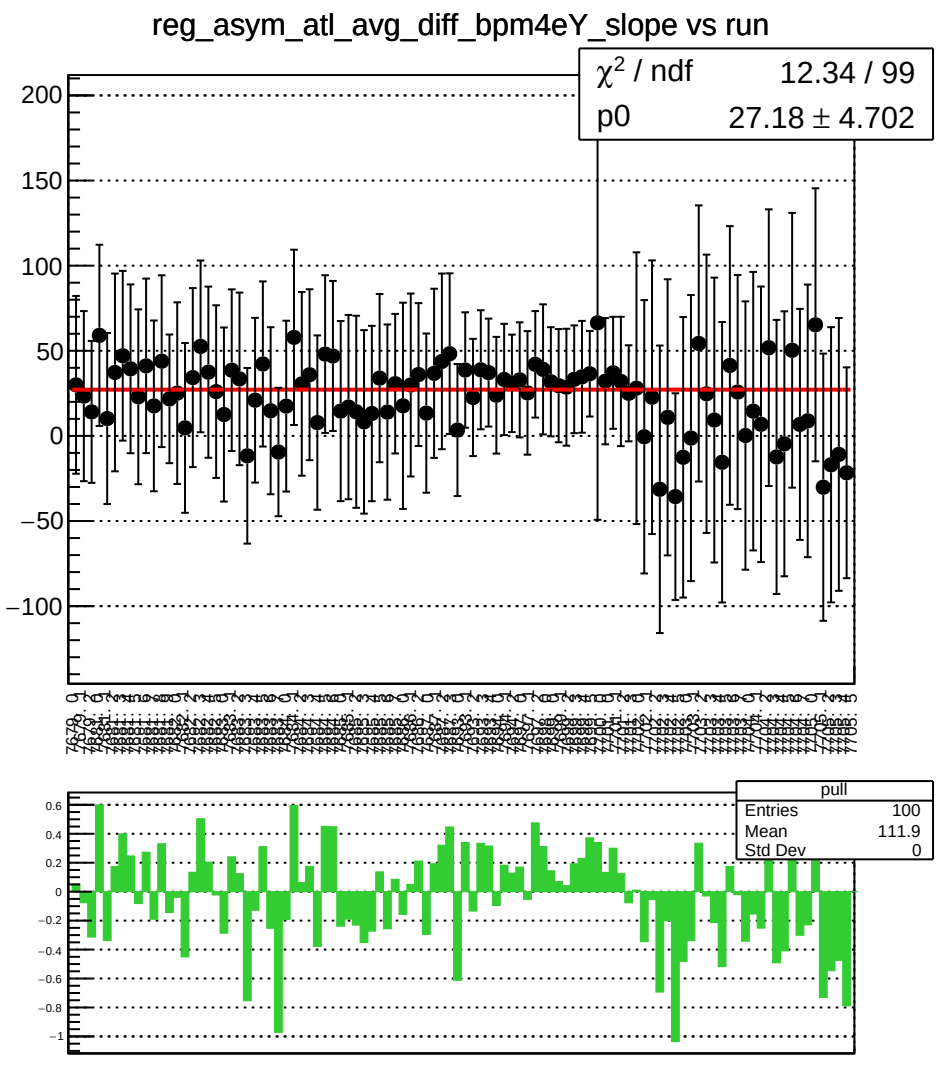

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 12.78 / 99
p0 26.77 ± 10.28
300
200
100
0
−100
−200
−300
−400
pull
Entries 100
Mean 41.63
Std Dev 42.53
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 100
Mean −0.07949
Std Dev 0.3485
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

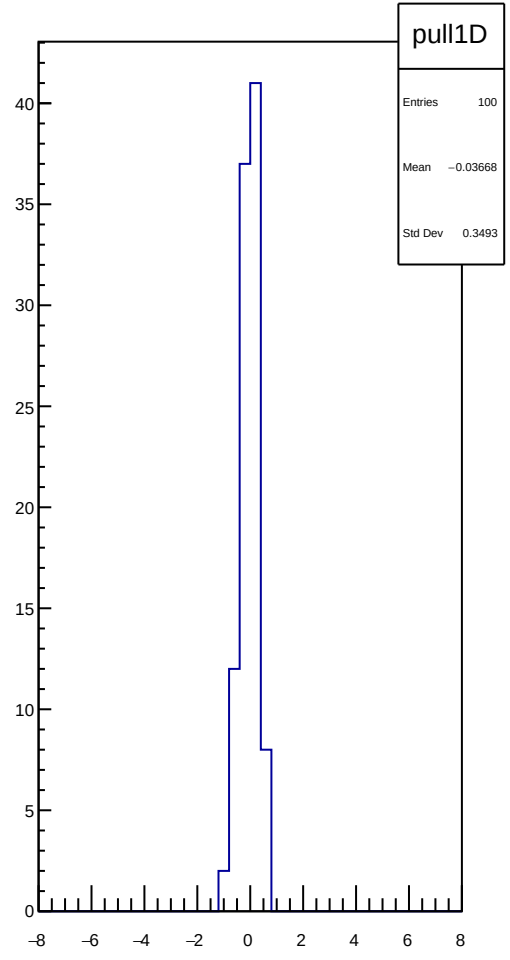

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 591.2 / 99
p0 −298 ± 0.5594
−270
−280
−290
−300
−310
−320
pull
Entries 100
Mean 1256
Std Dev 0
pull1D
Entries 100
Mean 0.05015
Std Dev 2.431

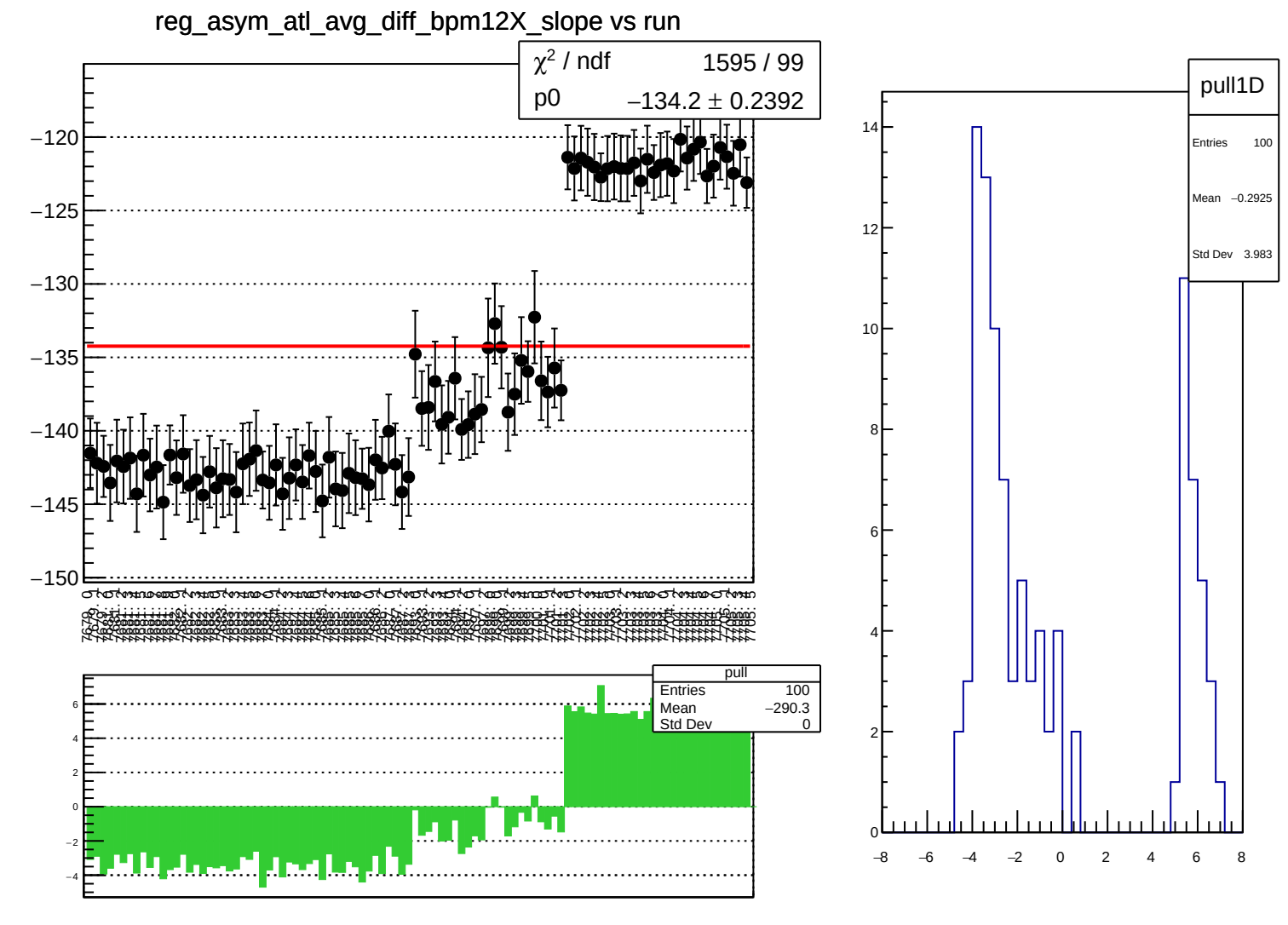

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 283.6 / 99
p0 −302.1± 2.267
pull
Entries 100
Mean 114.1
Std Dev 0
pull1D
Entries 100
Mean 0.588
Std Dev 1.578

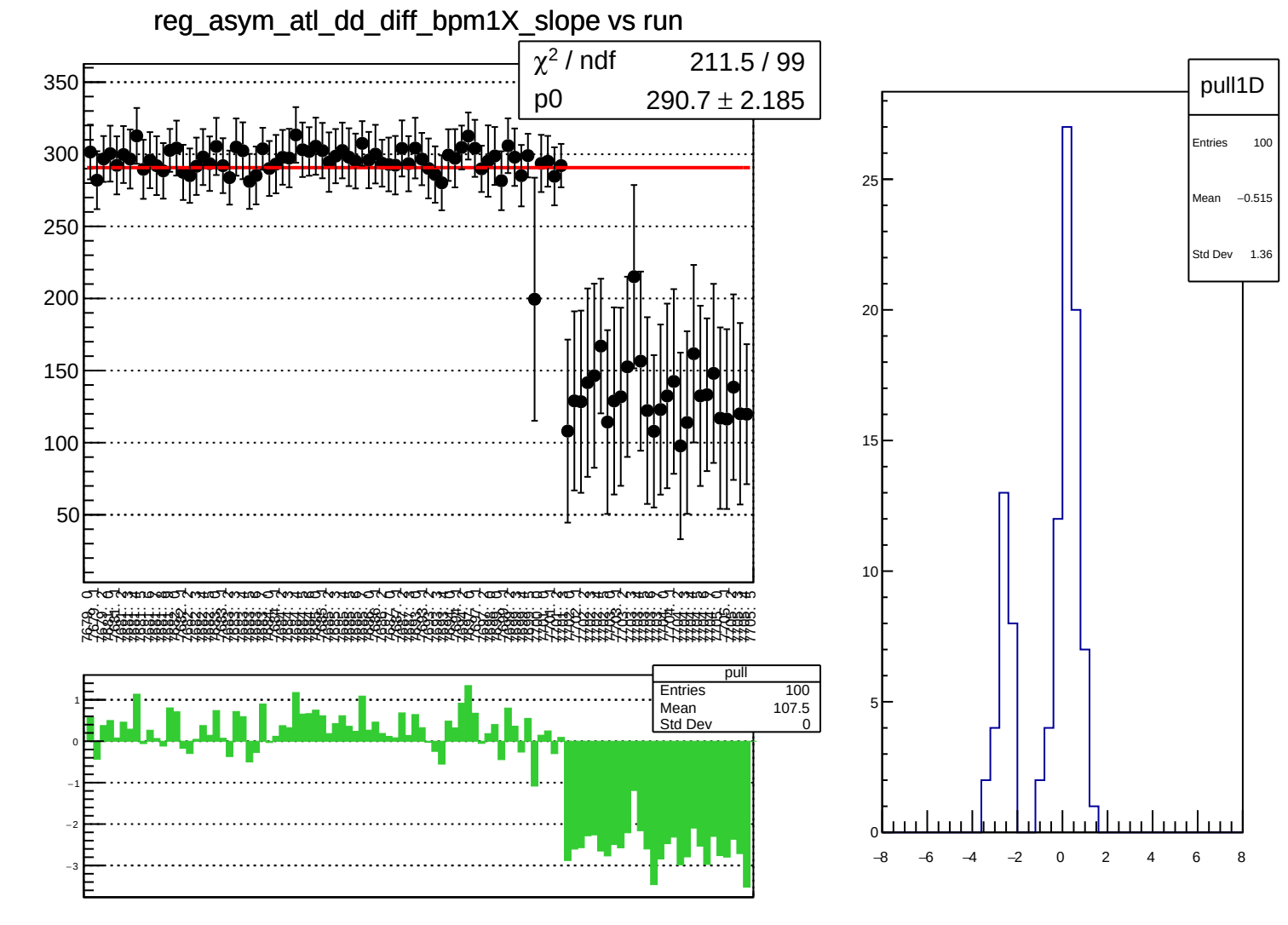

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.34 / 99
p0 28.92 ± 3.153
150
100
50
0
−50
−100
pull
Entries 100
Mean 68.1
Std Dev 39.54
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 100
Mean 0.05388
Std Dev 0.3472
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

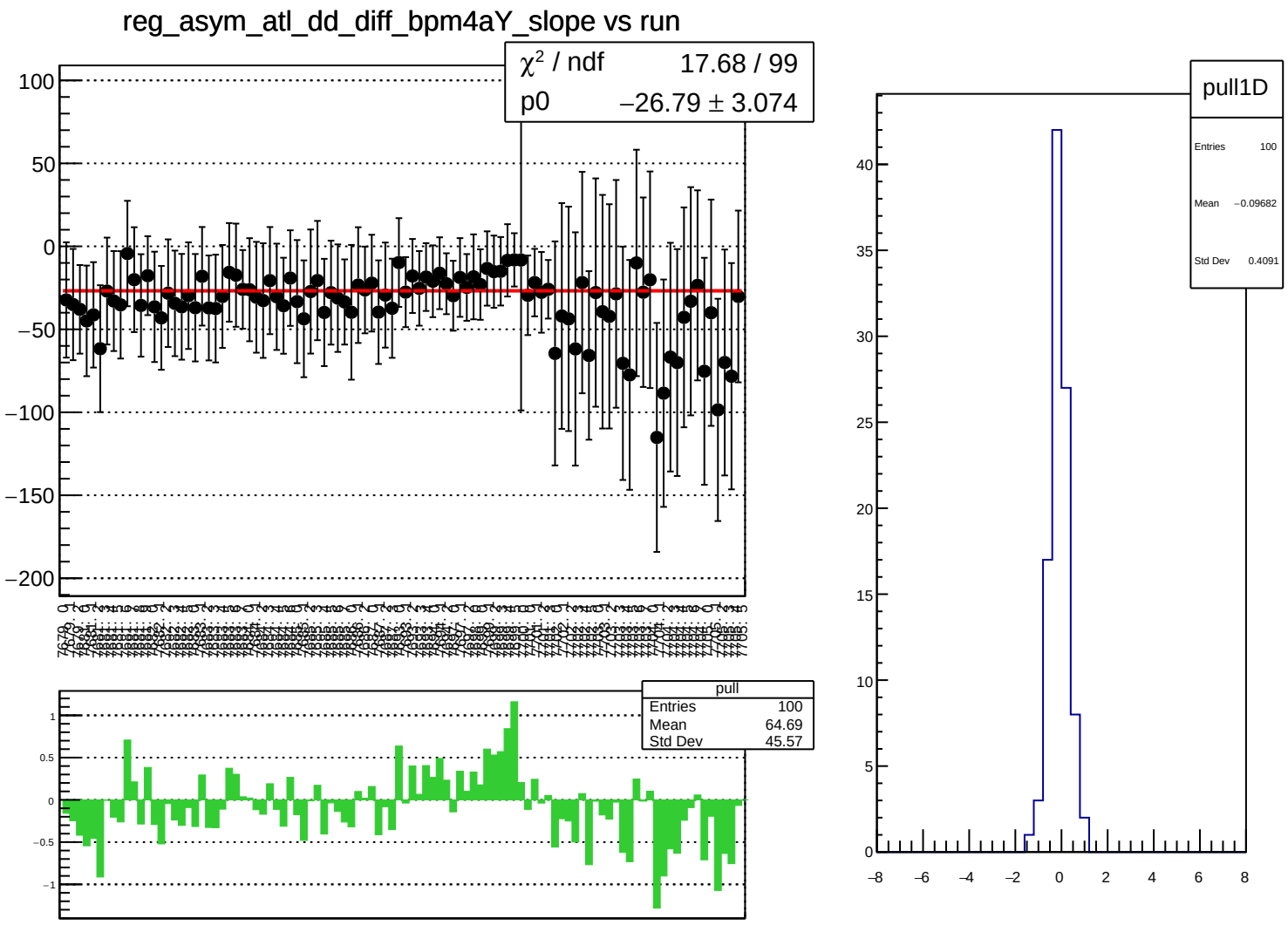

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 302.6 / 99
p0 271.5 ± 1.825
300
250
200
150
100
50
0
−50
pull
Entries 100
Mean 111.6
Std Dev 0
1
0
−1
−2
−3
−4
pull1D
Entries 100
Mean −0.6363
Std Dev 1.619
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

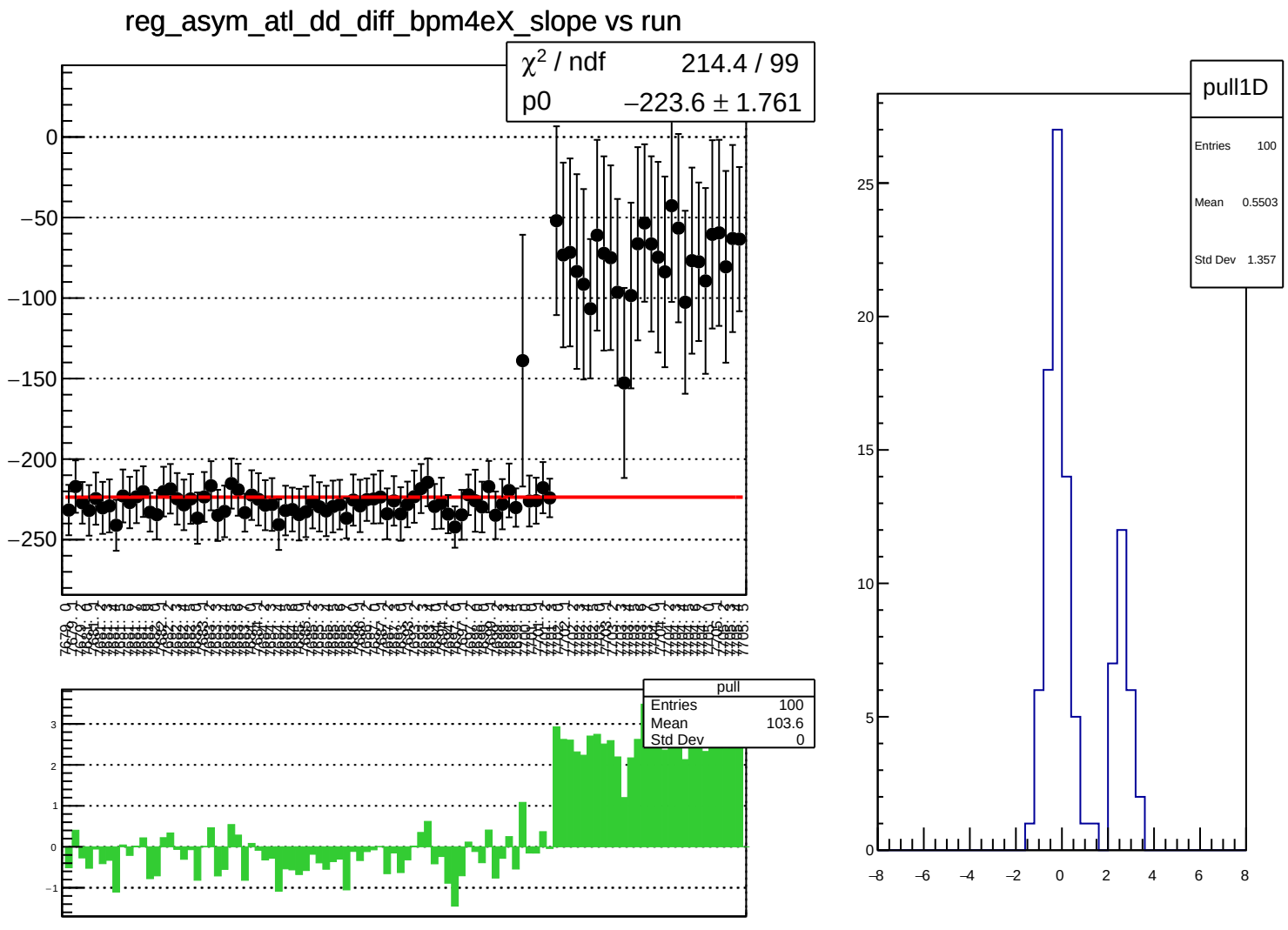

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.34 / 99
p0 27.18 ± 4.702
pull
Entries 100
Mean 111.9
Std Dev 0

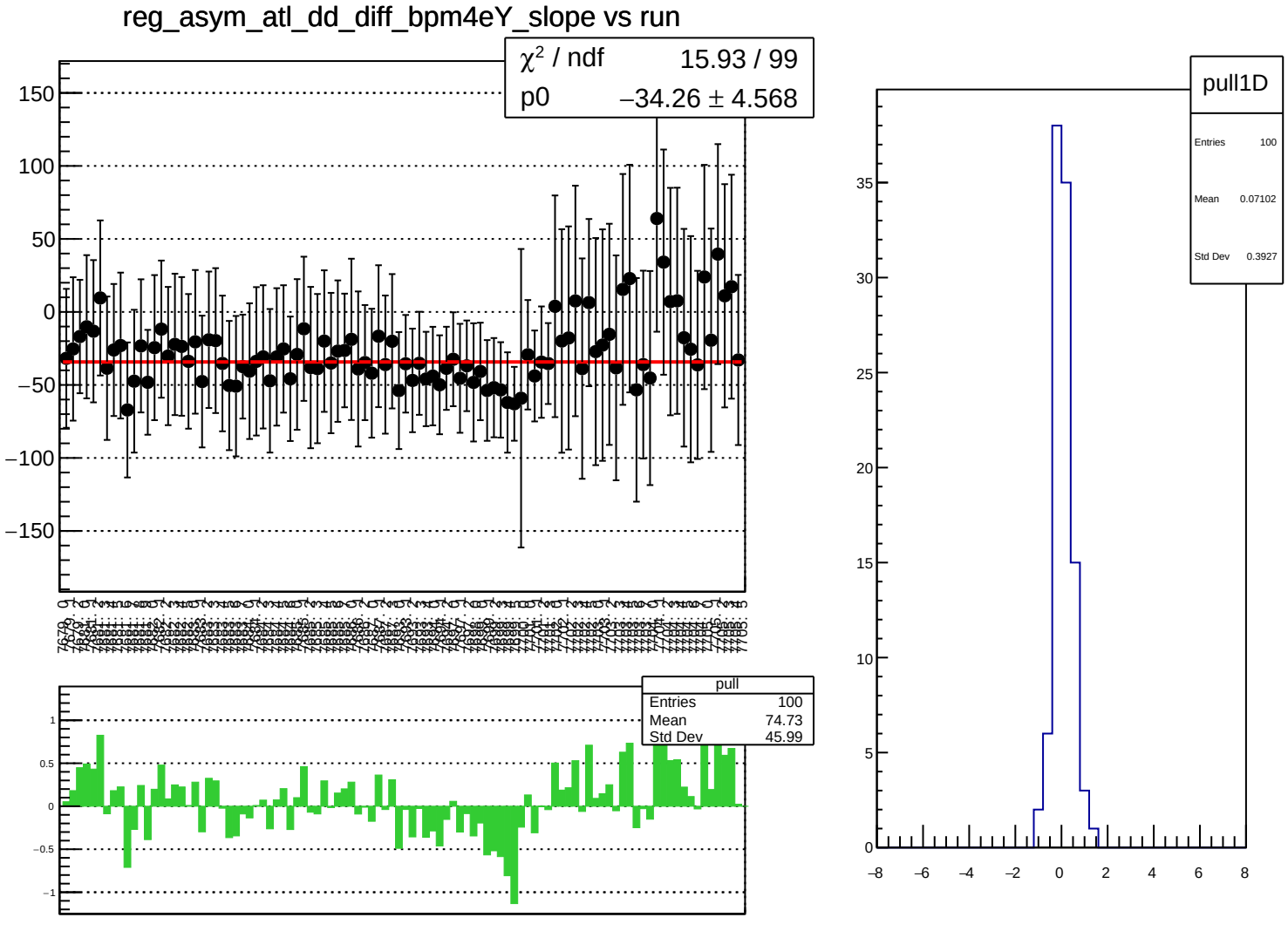

pull1D
Entries 100
Mean −0.03668
Std Dev 0.3493

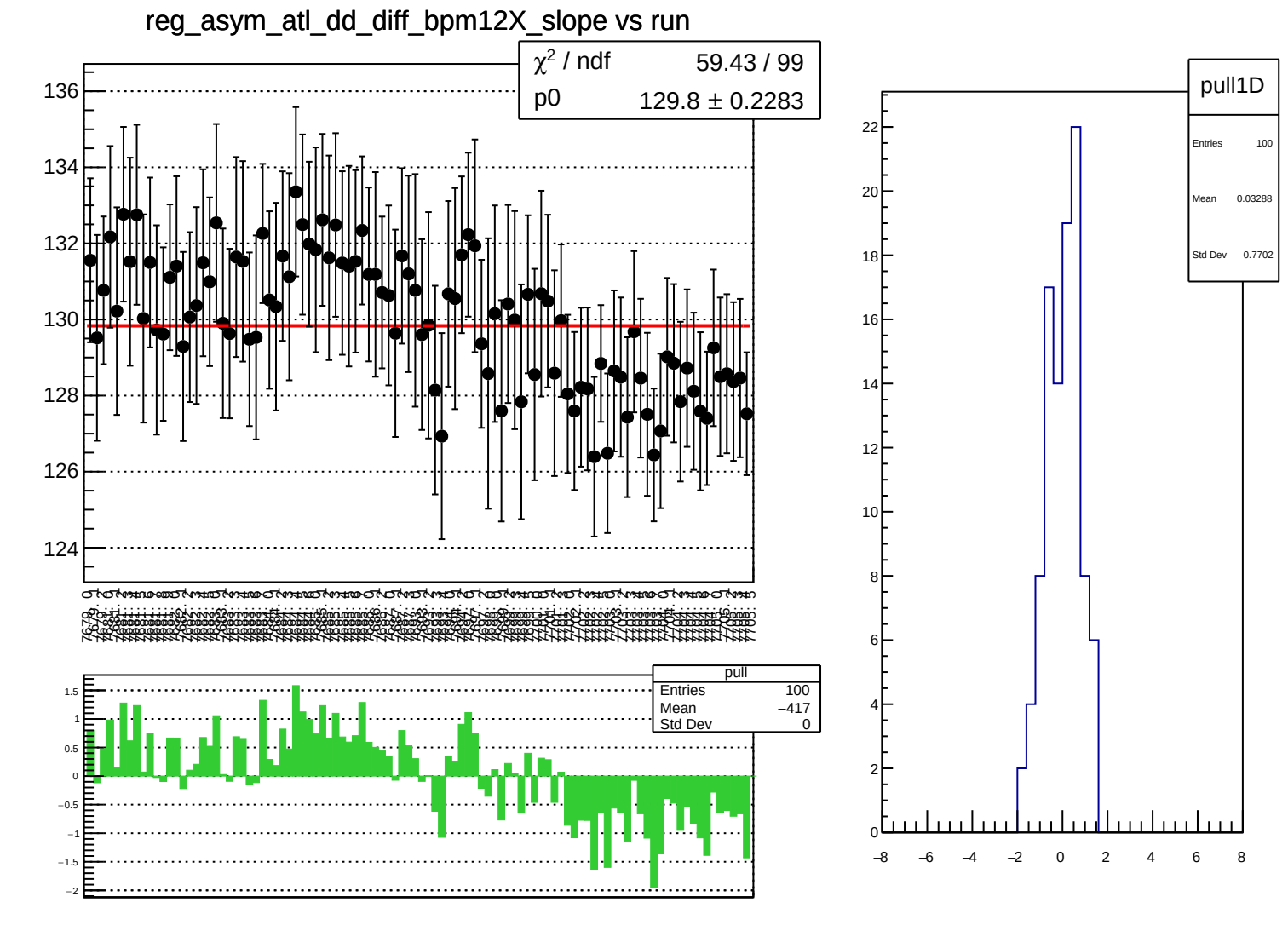

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 1595 / 99
p0 −134.2 ± 0.2392
pull
Entries 100
Mean −290.3
Std Dev 0
pull1D
Entries 100
Mean −0.2925
Std Dev 3.983

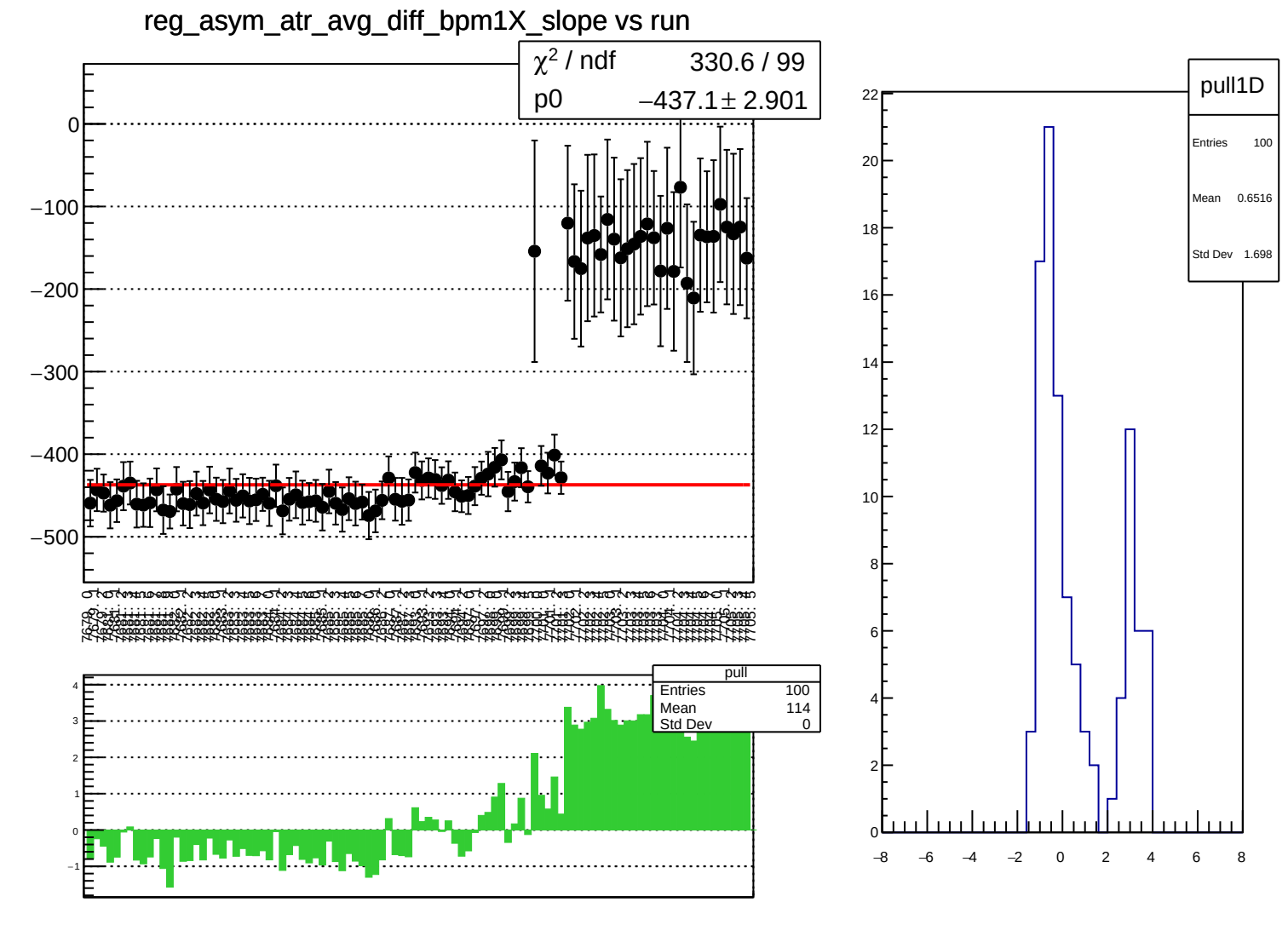

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 211.5 / 99
p0 290.7 ± 2.185
350
300
250
200
150
100
50
pull
Entries 100
Mean 107.5
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 100
Mean −0.515
Std Dev 1.36
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

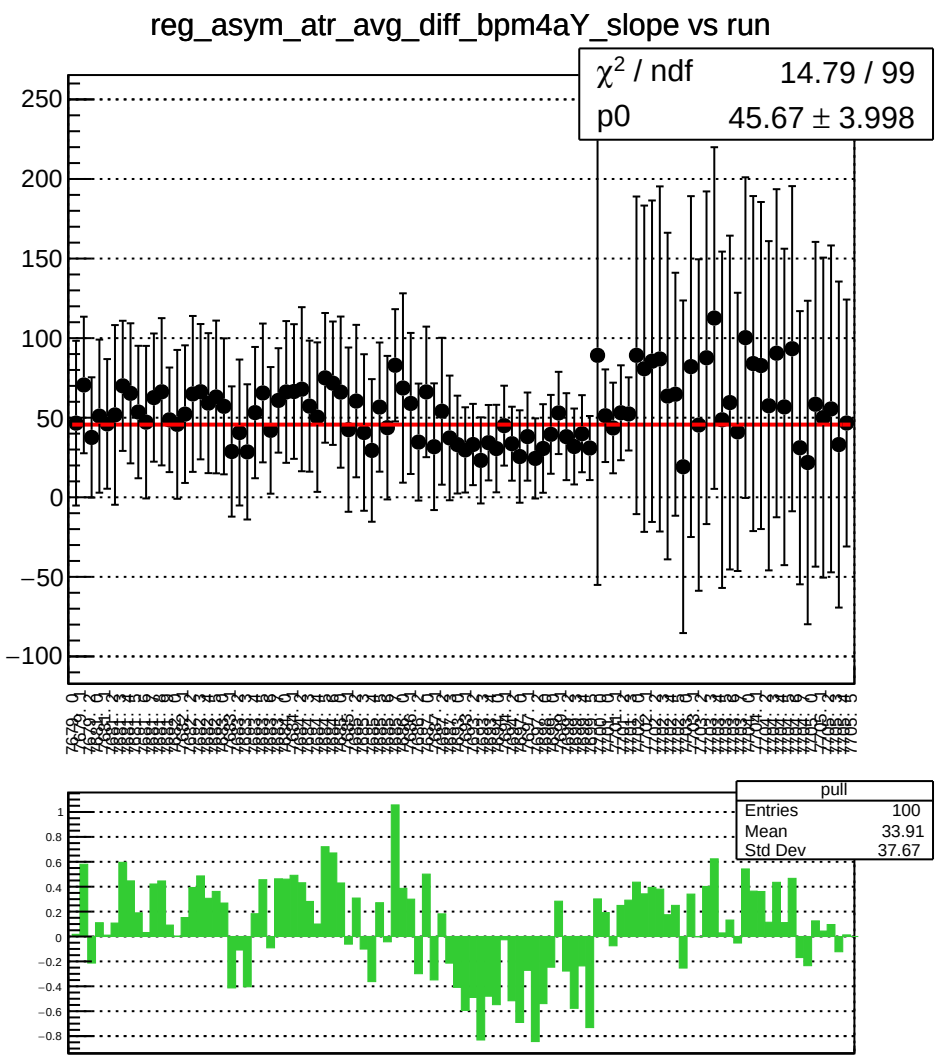

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.68 / 99
p0 −26.79 ± 3.074
100
50
0
−50
−100
−150
−200
pull
Entries 100
Mean 64.69
Std Dev 45.57
1
0.5
0
−0.5
−1
pull1D
Entries 100
Mean −0.09682
Std Dev 0.4091
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

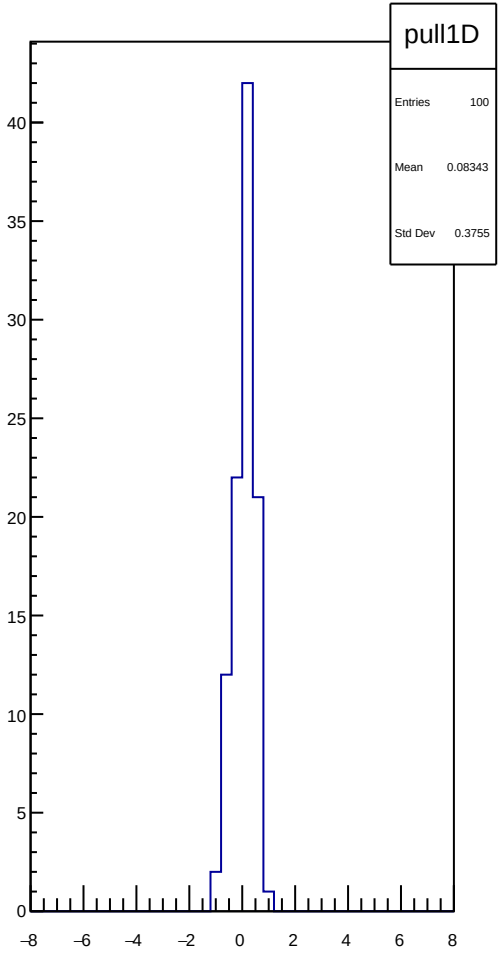

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 214.4 / 99
p0 −223.6 ± 1.761
0
−50
−100
−150
−200
−250
pull
Entries 100
Mean 103.6
Std Dev 0
3
2
1
0
−1
pull1D
Entries 100
Mean 0.5503
Std Dev 1.357
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

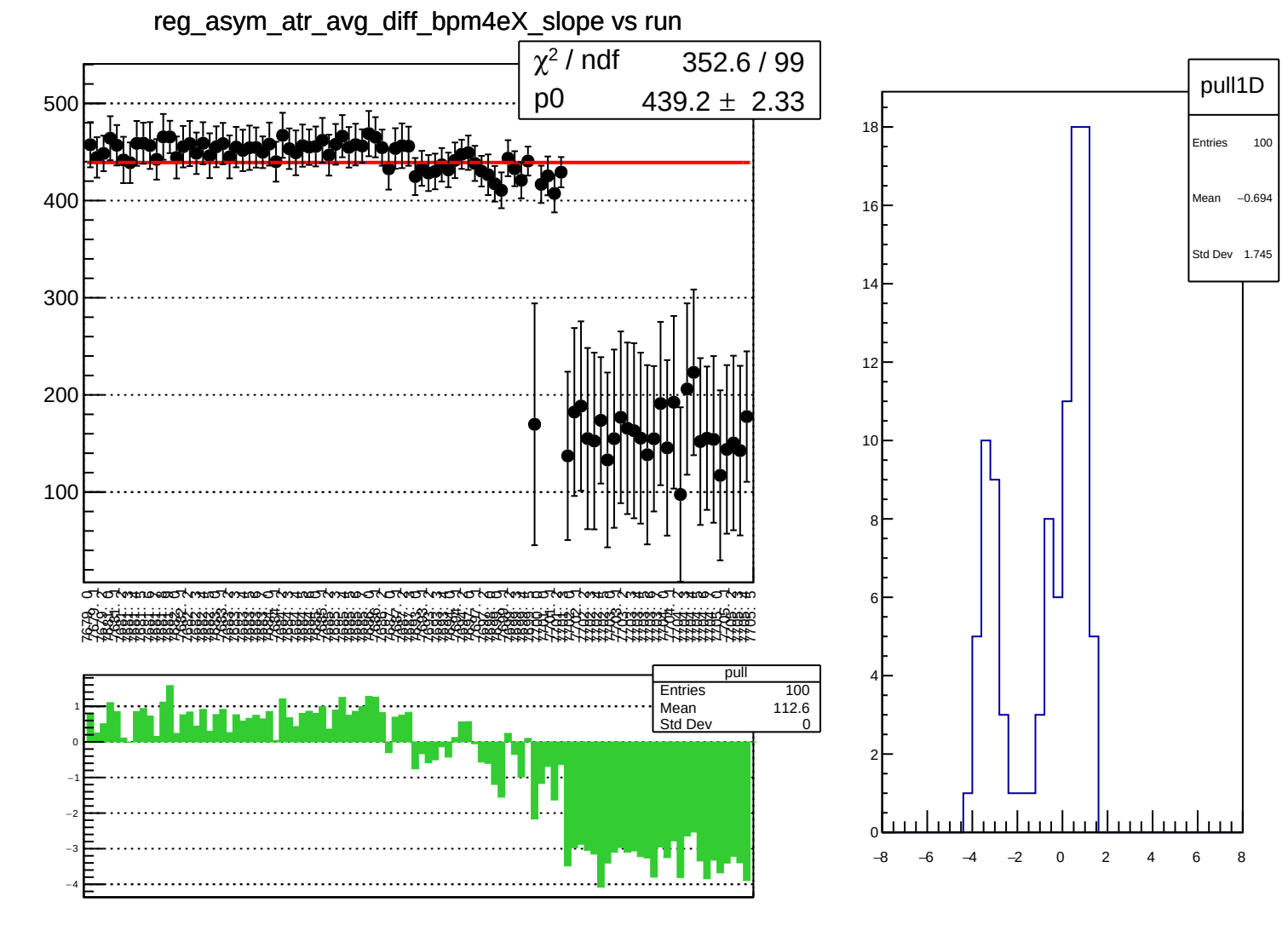

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.93 / 99
p0 −34.26 ± 4.568
150
100
50
0
−50
−100
−150
pull
Entries 100
Mean 74.73
Std Dev 45.99
1
0.5
0
−0.5
−1
pull1D
Entries 100
Mean 0.07102
Std Dev 0.3927
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

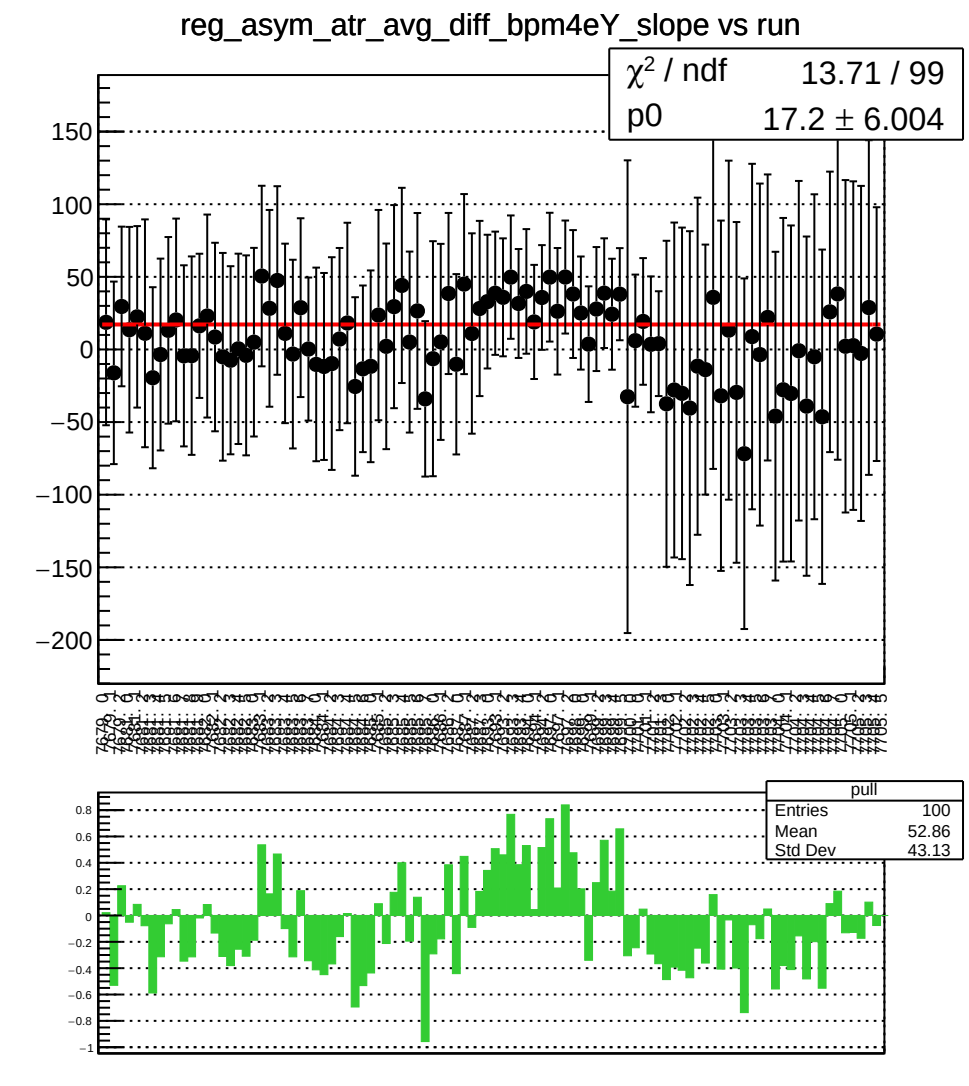

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 59.43 / 99
p0 129.8 ± 0.2283
pull
Entries 100
Mean −417
Std Dev 0
pull1D
Entries 100
Mean 0.03288
Std Dev 0.7702

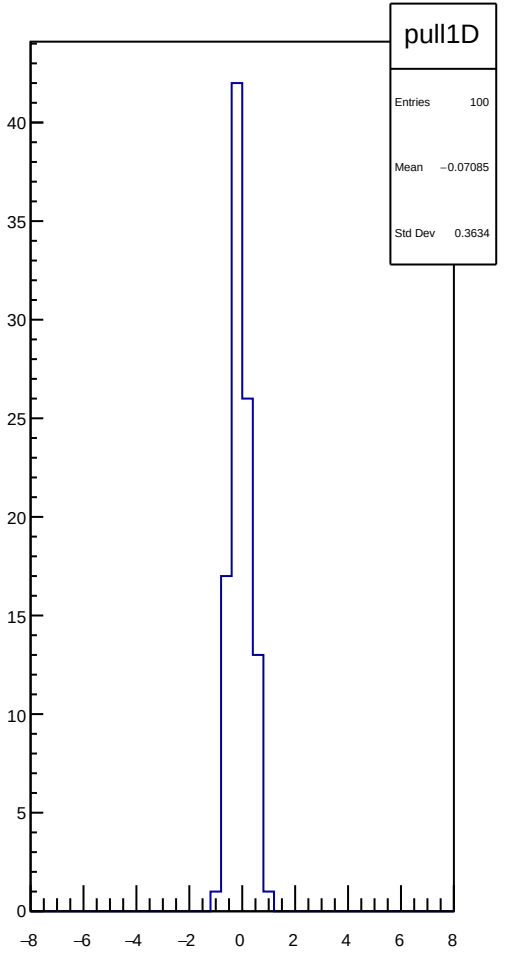

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 330.6 / 99
p0 −437.1 ± 2.901
pull
Entries 100
Mean 114
Std Dev 0
pull1D
Entries 100
Mean 0.6516
Std Dev 1.698

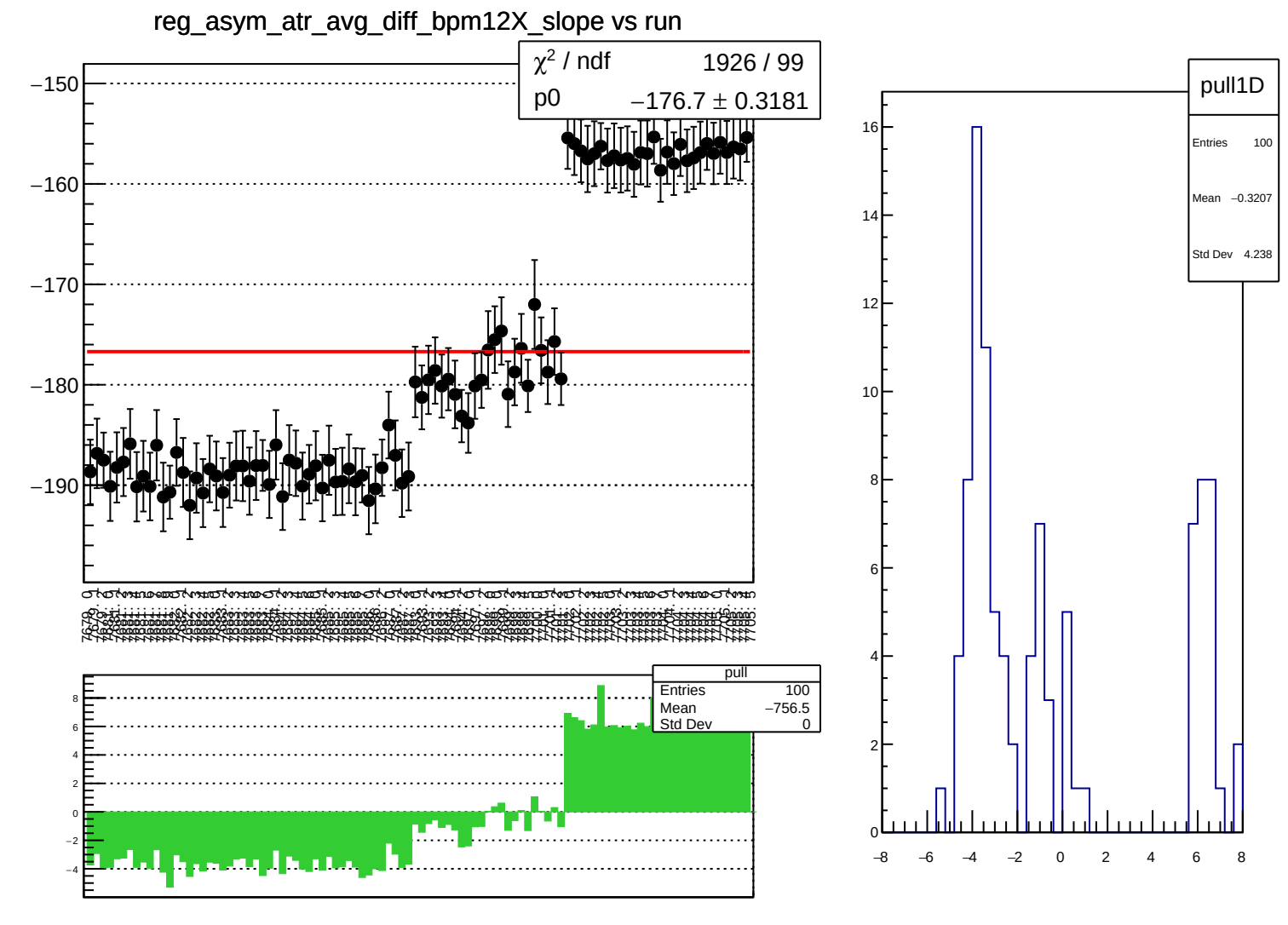

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.79 / 99
p0 45.67 ± 3.998
pull
Entries 100
Mean 33.91
Std Dev 37.67

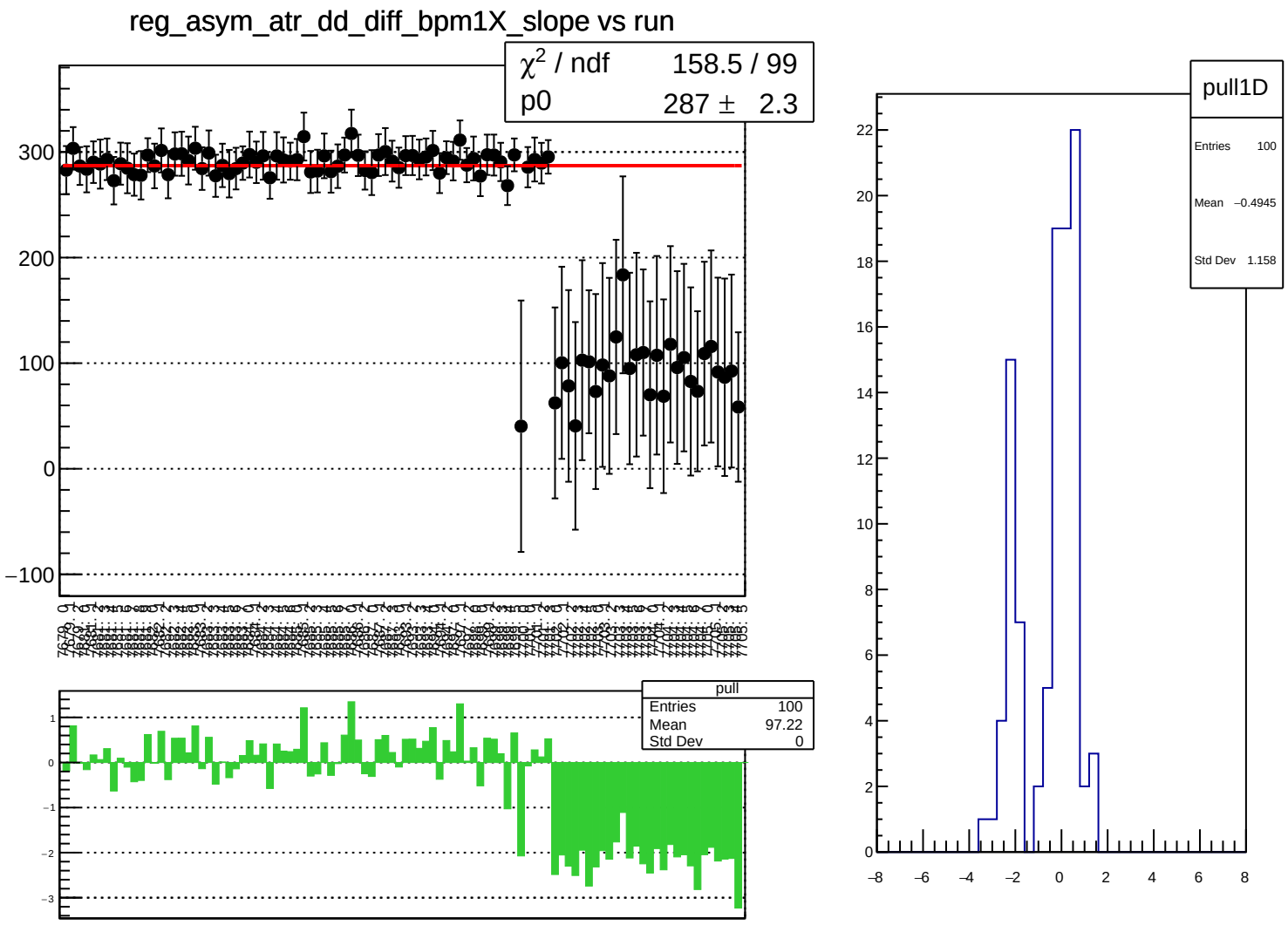

pull1D
Entries 100
Mean 0.08343
Std Dev 0.3755

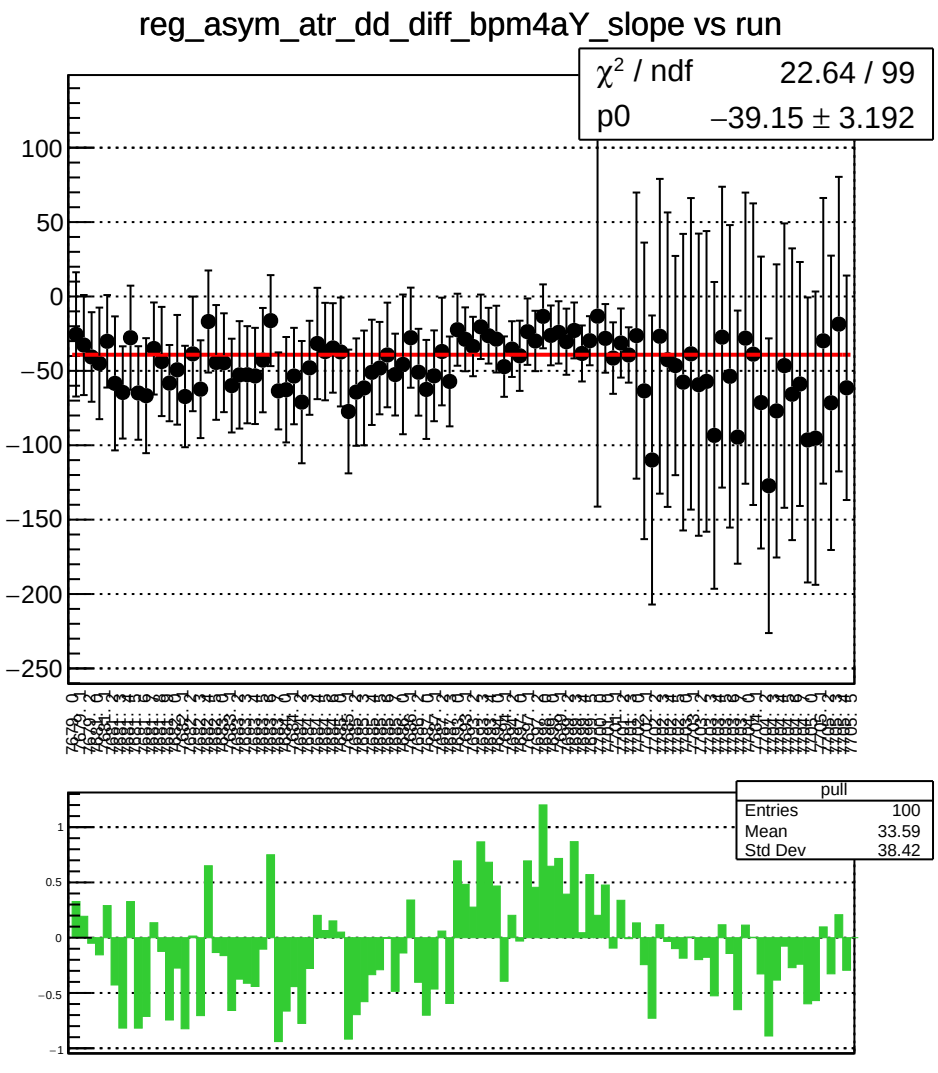

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 352.6 / 99
p0 439.2 ± 2.33
pull
Entries 100
Mean 112.6
Std Dev 0
pull1D
Entries 100
Mean −0.694
Std Dev 1.745

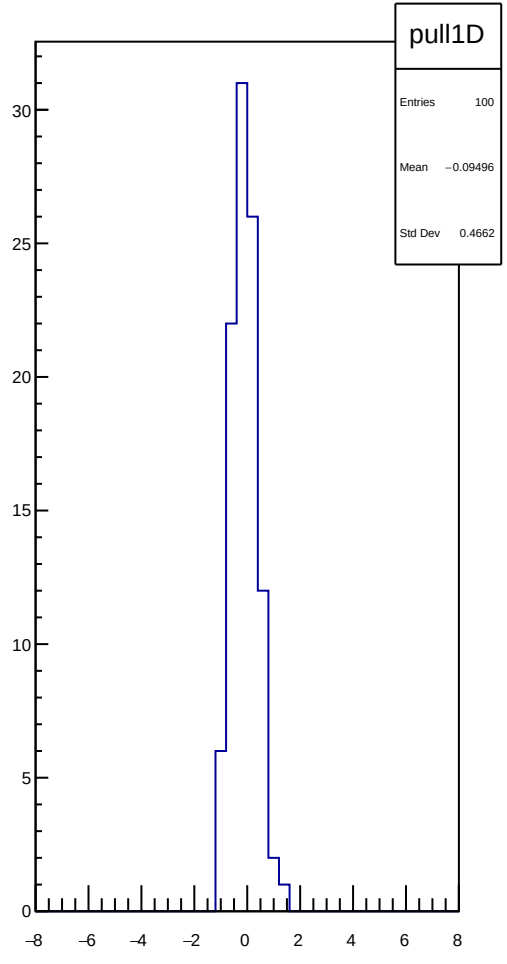

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.71 / 99
p0 17.2 ± 6.004
150
100
50
0
−50
−100
−150
−200
pull
Entries 100
Mean 52.86
Std Dev 43.13
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

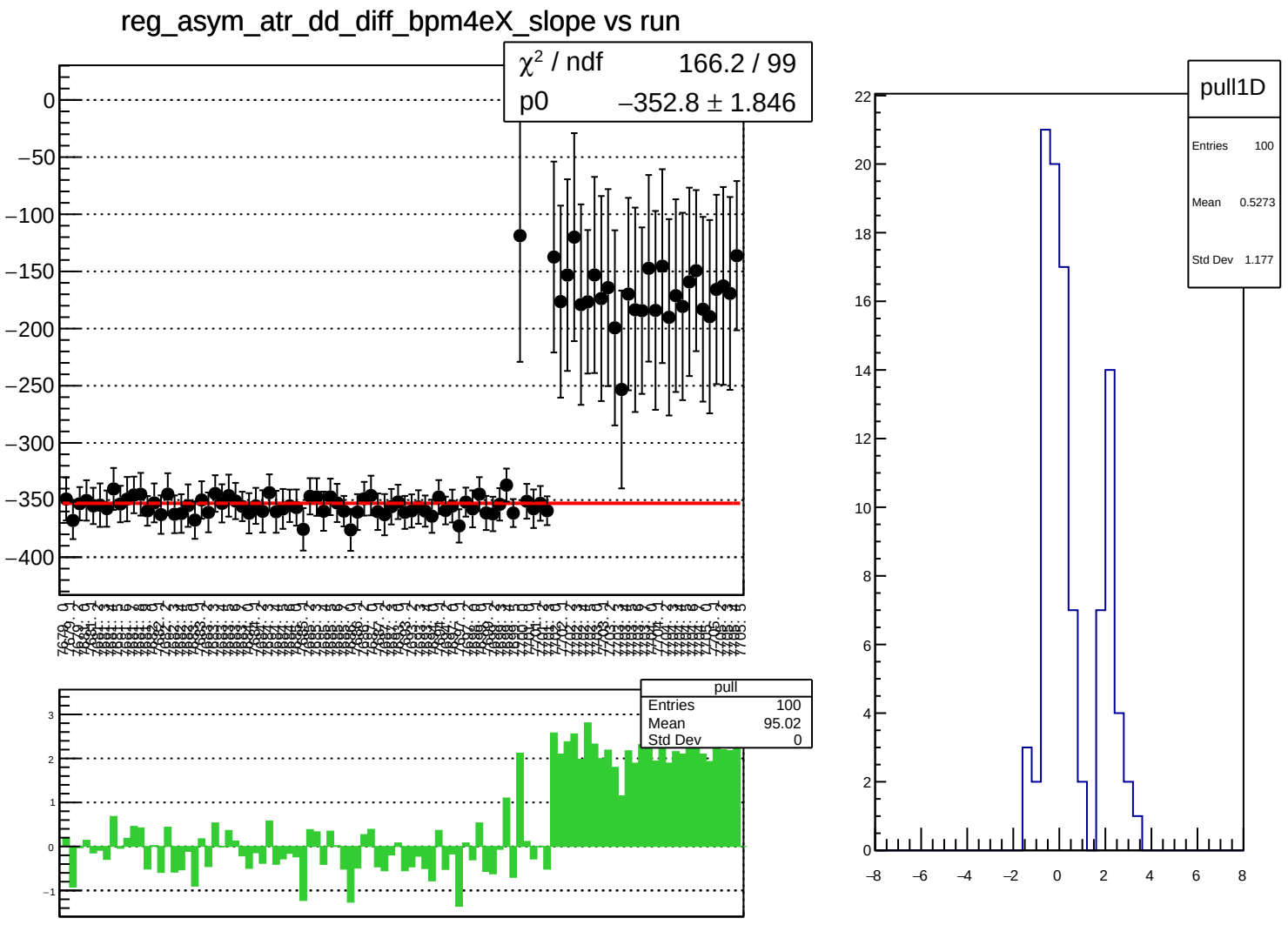

pull1D
Entries 100
Mean −0.07085
Std Dev 0.3634
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

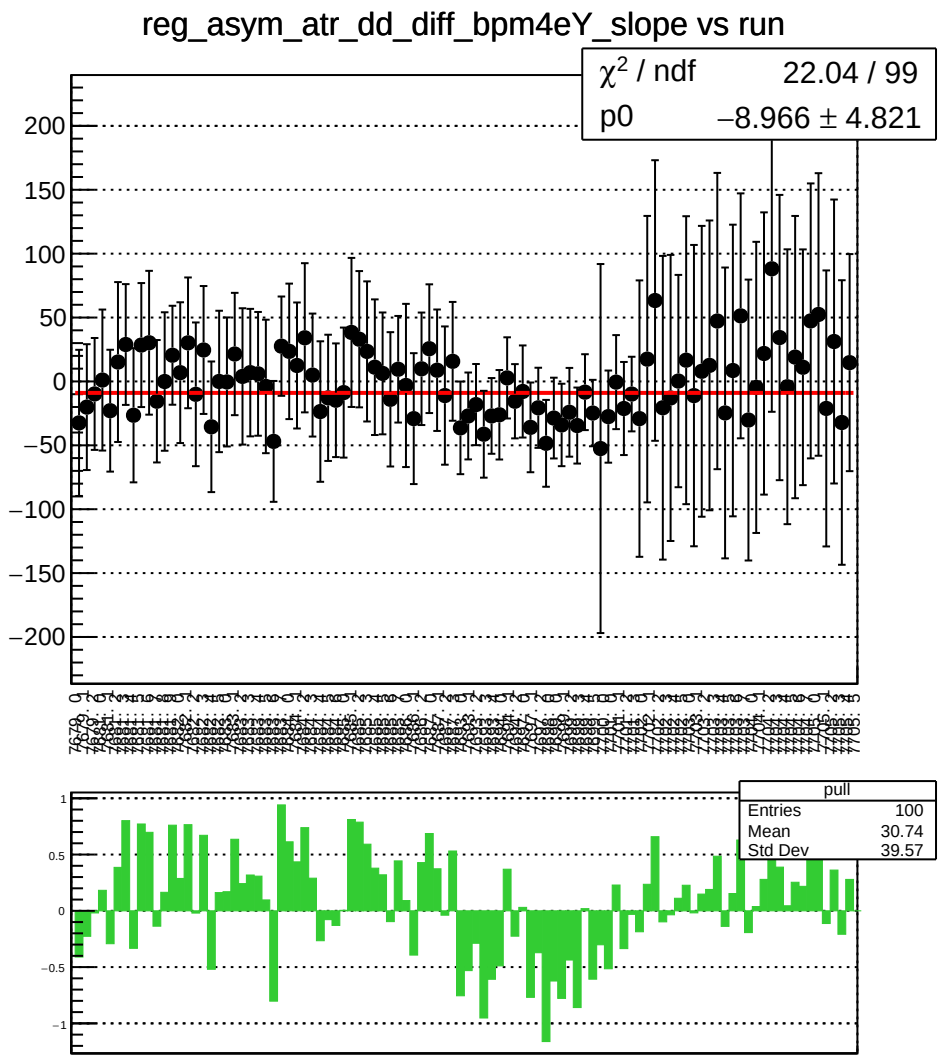

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 1926 / 99
p0 −176.7 ± 0.3181
−150
−160
−170
−180
−190
pull
Entries 100
Mean −756.5
Std Dev 0
8
6
4
2
0
−2
−4
pull1D
Entries 100
Mean −0.3207
Std Dev 4.238
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

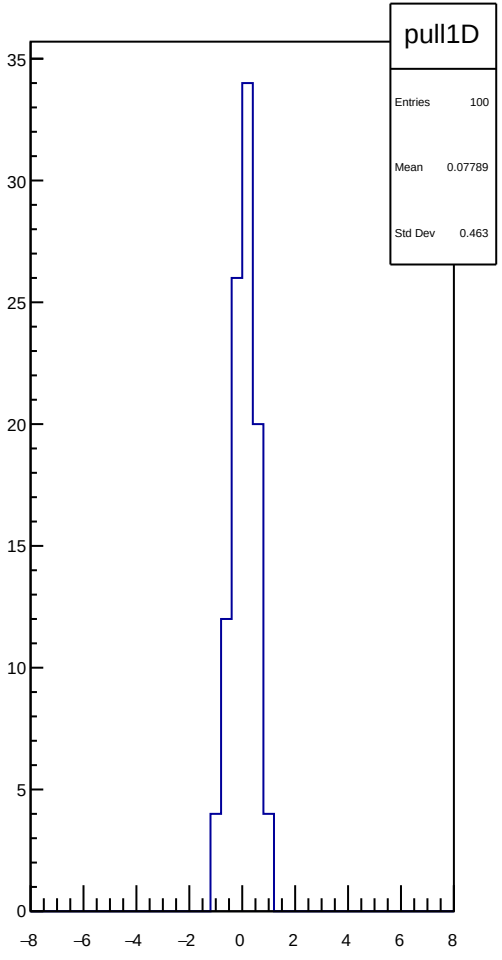

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 158.5 / 99
p0 287 ± 2.3
300
200
100
0
−100
pull
Entries 100
Mean 97.22
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 100
Mean −0.4945
Std Dev 1.158
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

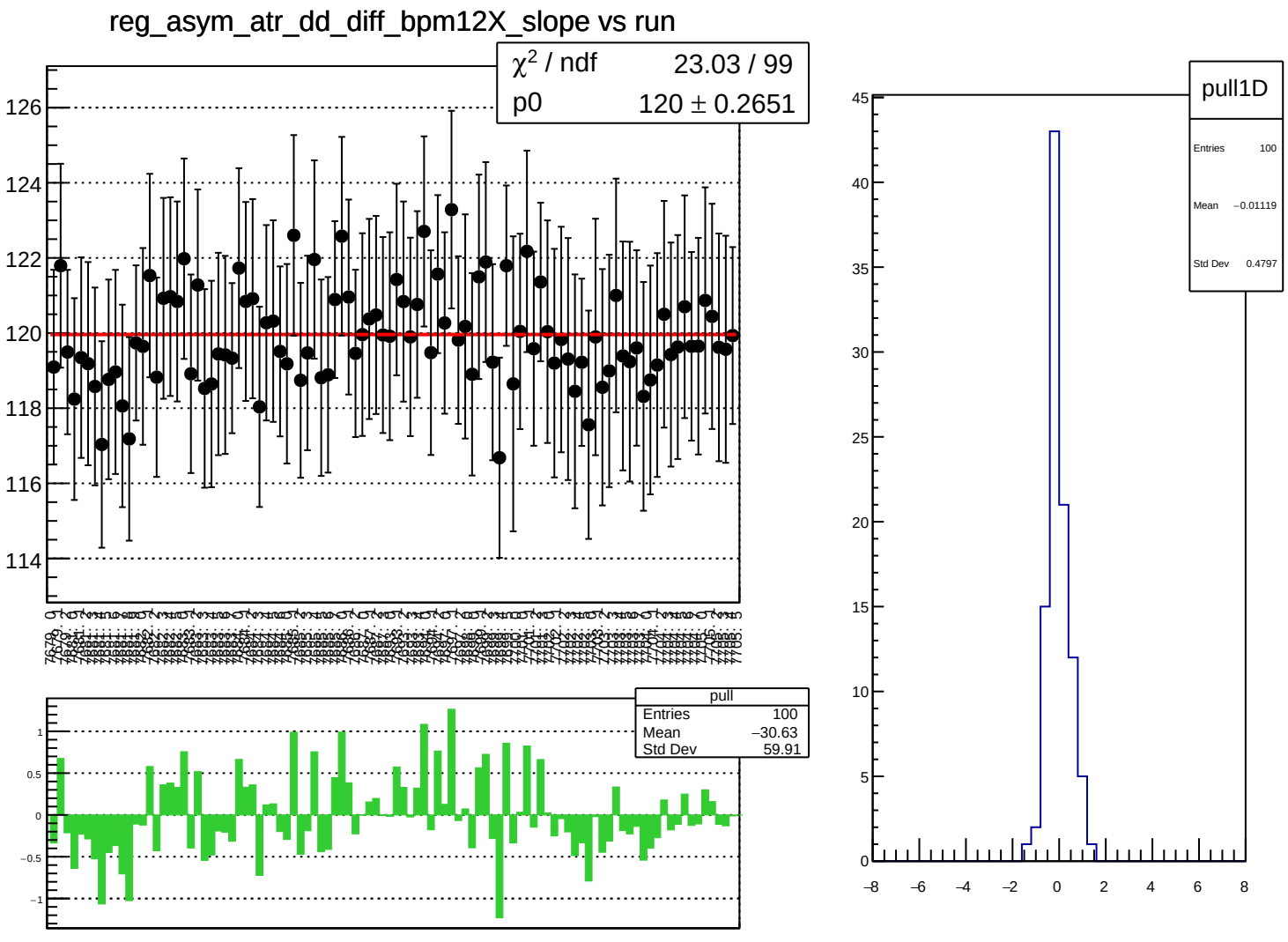

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 22.64 / 99
p0 −39.15 ± 3.192
100
50
0
−50
−100
−150
−200
−250
pull
Entries 100
Mean 33.59
Std Dev 38.42
1
0.5
0
−0.5
−1

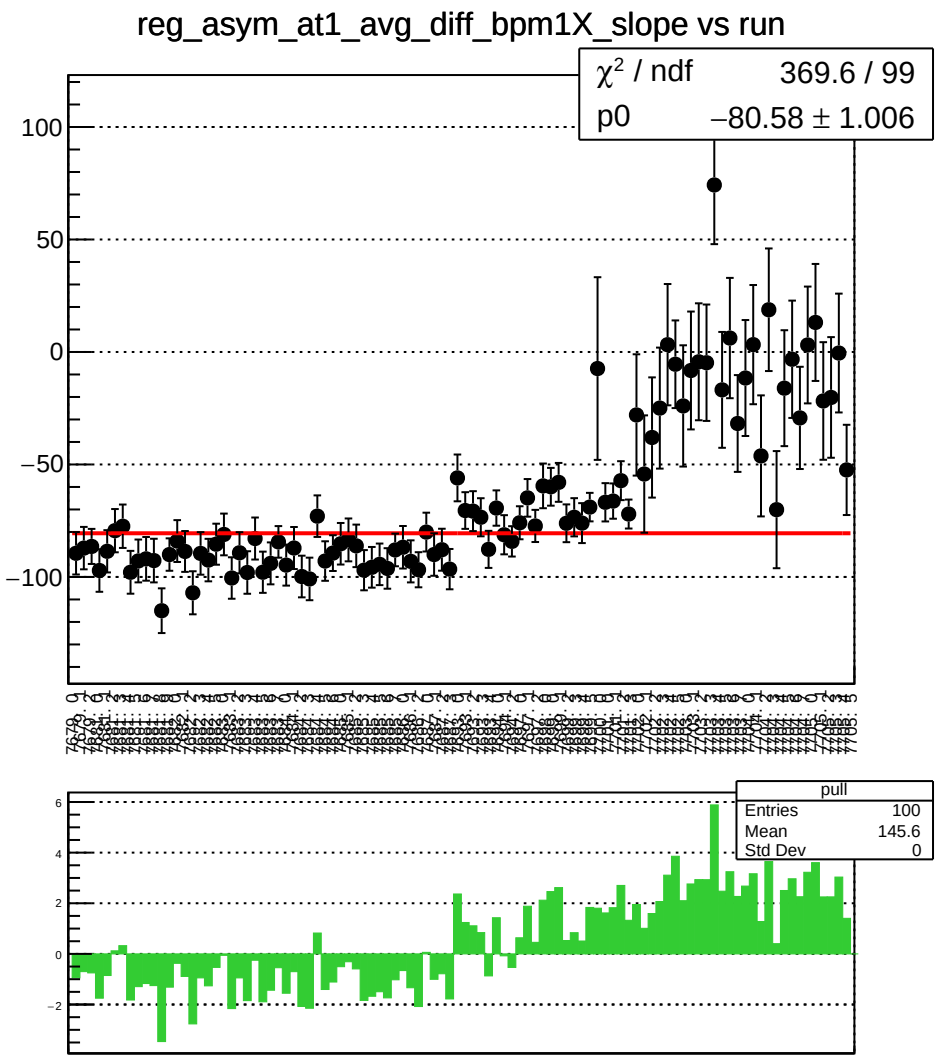

pull1D
Entries 100
Mean −0.09496
Std Dev 0.4662
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

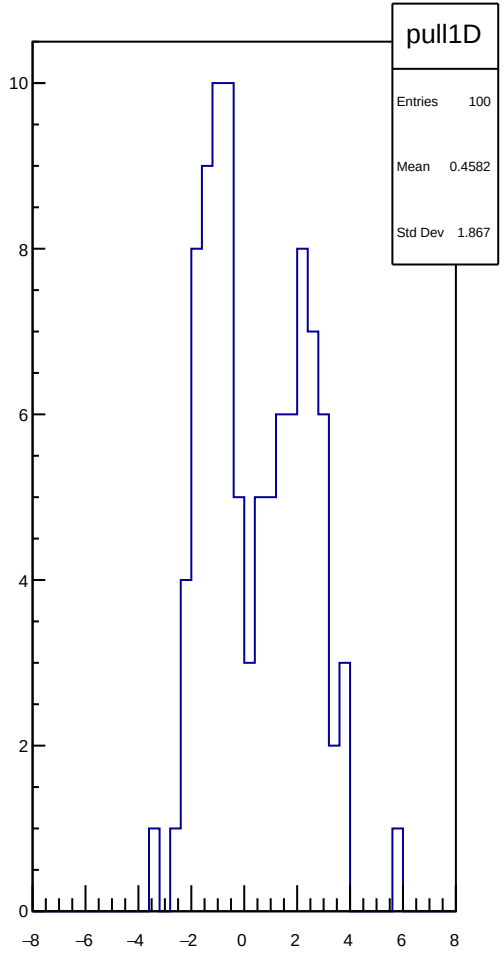

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 166.2 / 99
p0 −352.8 ± 1.846
pull
Entries 100
Mean 95.02
Std Dev 0
pull1D
Entries 100
Mean 0.5273
Std Dev 1.177

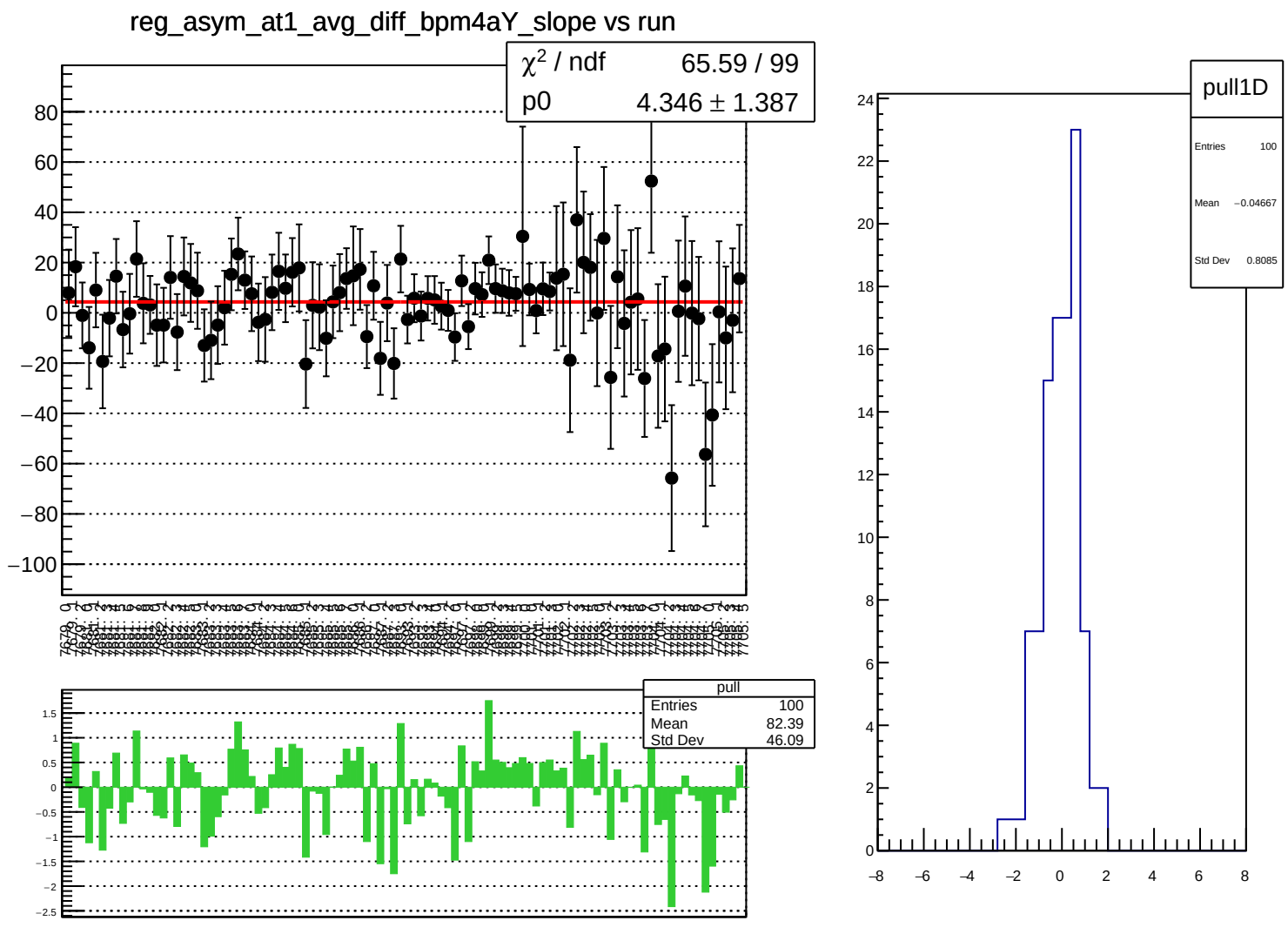

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.04 / 99
p0 −8.966 ± 4.821
pull
Entries 100
Mean 30.74
Std Dev 39.57

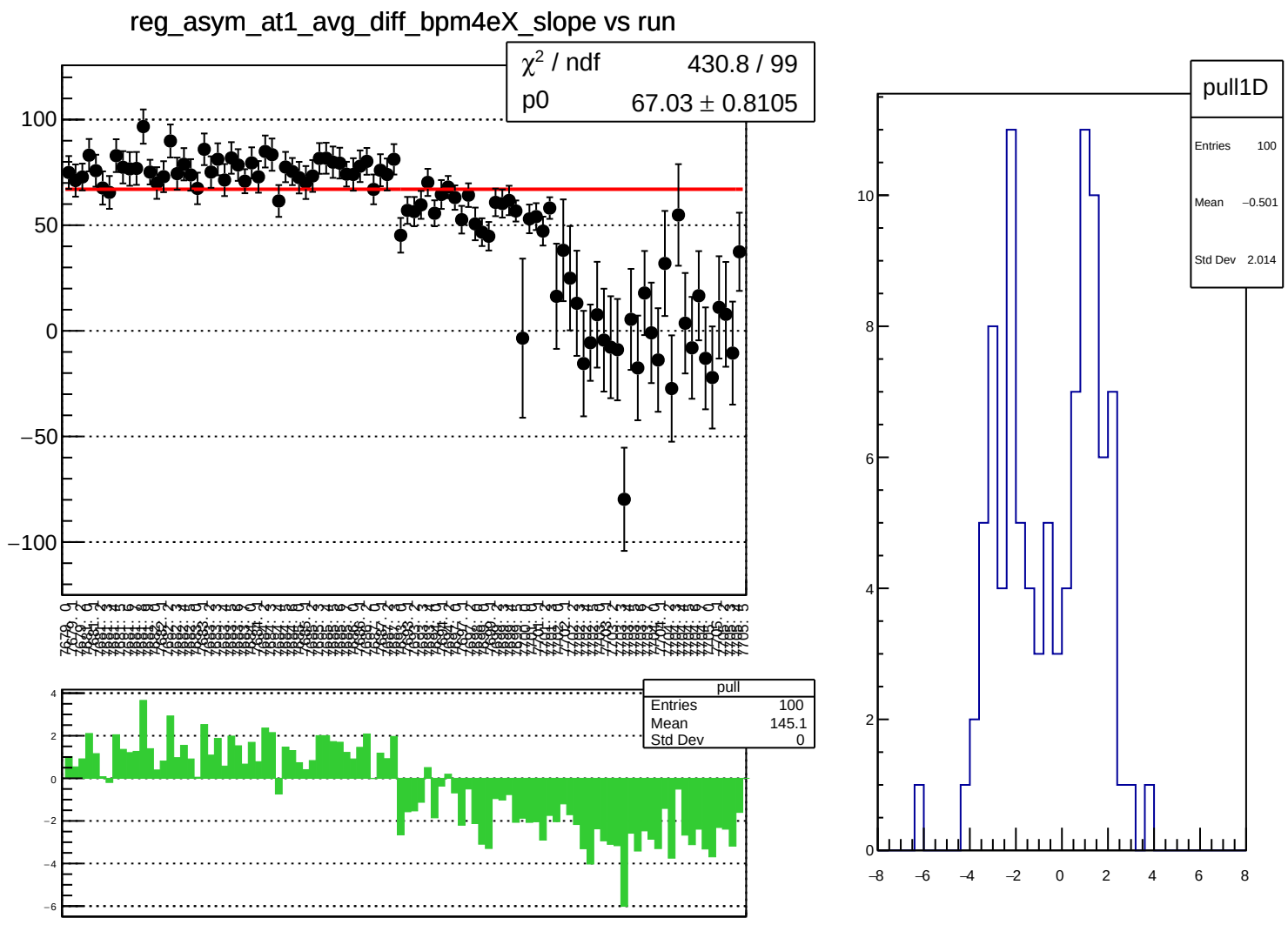

pull1D
Entries 100
Mean 0.07789
Std Dev 0.463

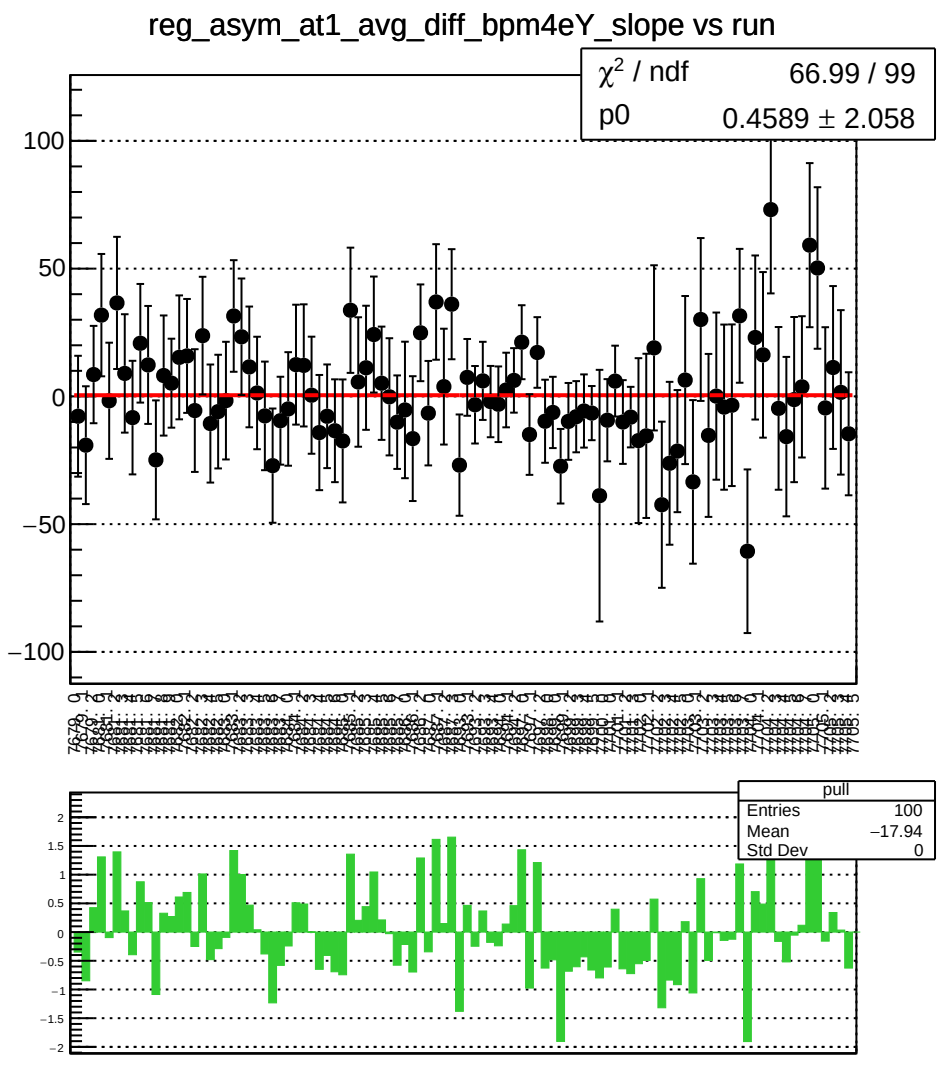

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 23.03 / 99
p0 120 ± 0.2651
126
124
122
120
118
116
114
pull
Entries 100
Mean −30.63
Std Dev 59.91
1
0.5
0
−0.5
−1
pull1D
Entries 100
Mean −0.01119
Std Dev 0.4797
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

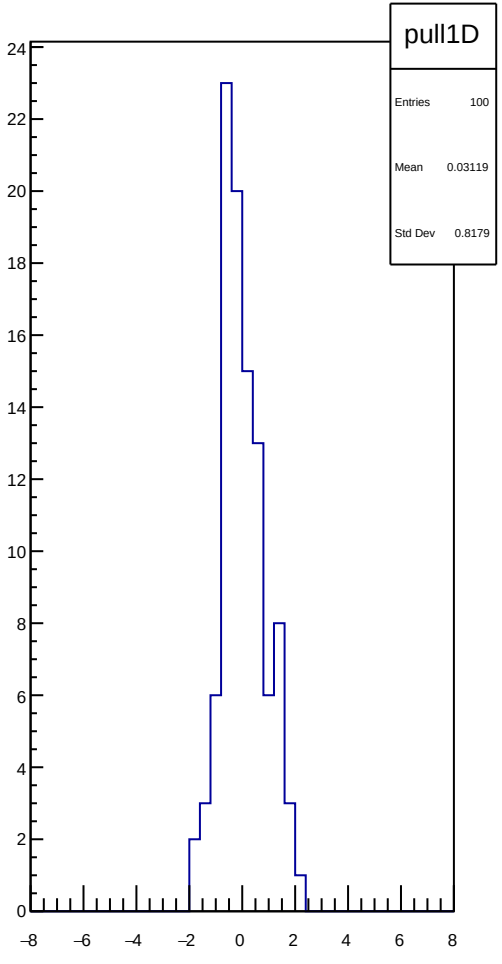

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 369.6 / 99
p0 −80.58 ± 1.006
100
50
0
−50
−100
pull
Entries 100
Mean 145.6
Std Dev 0
6
4
2
0
−2

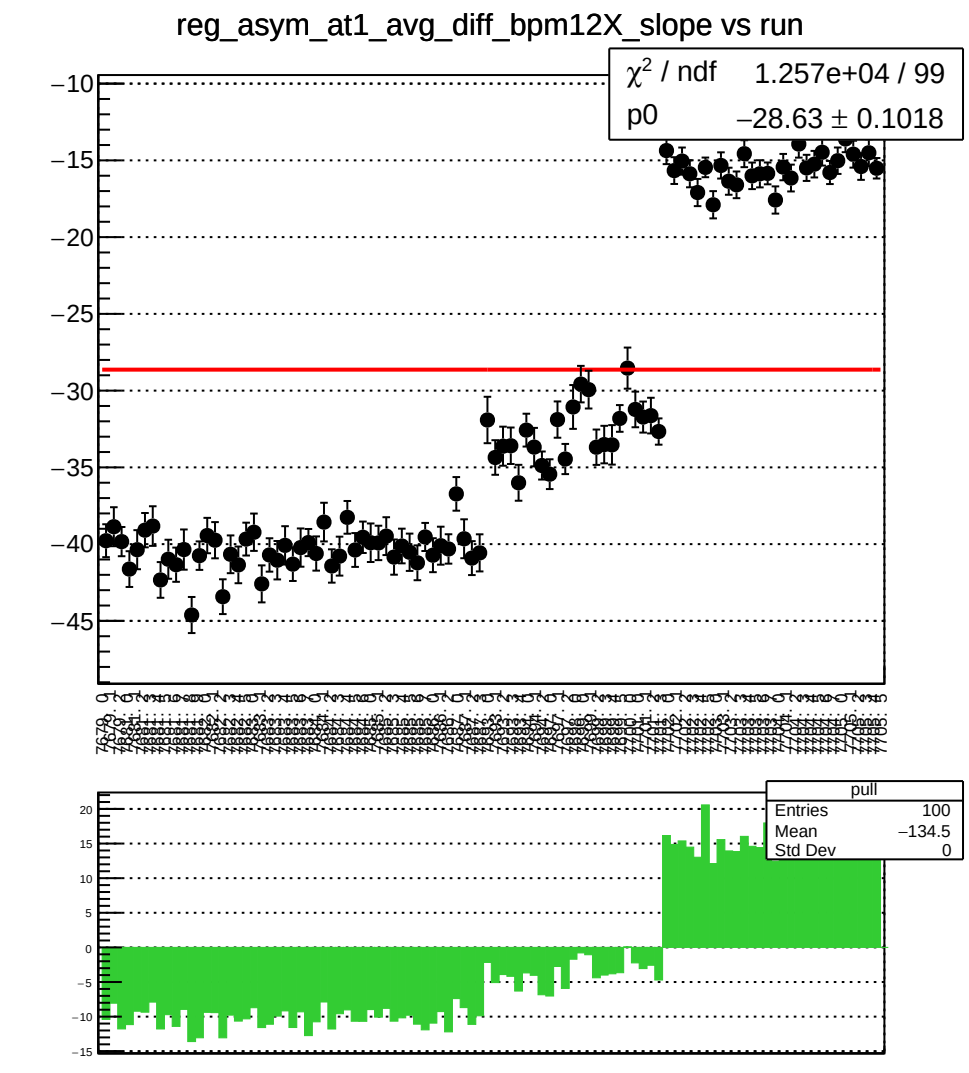

pull1D
Entries 100
Mean 0.4582
Std Dev 1.867
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

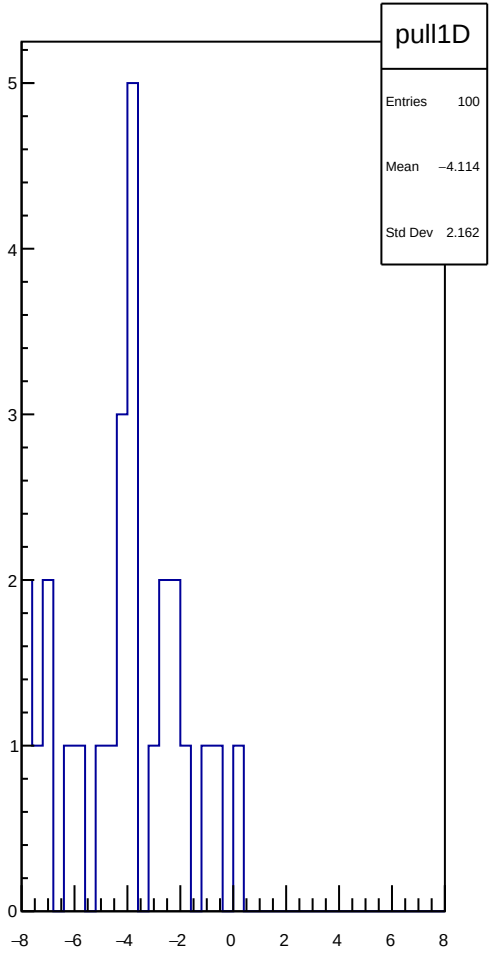

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 65.59 / 99
p0 4.346 ± 1.387
pull
Entries 100
Mean 82.39
Std Dev 46.09
pull1D
Entries 100
Mean −0.04667
Std Dev 0.8085

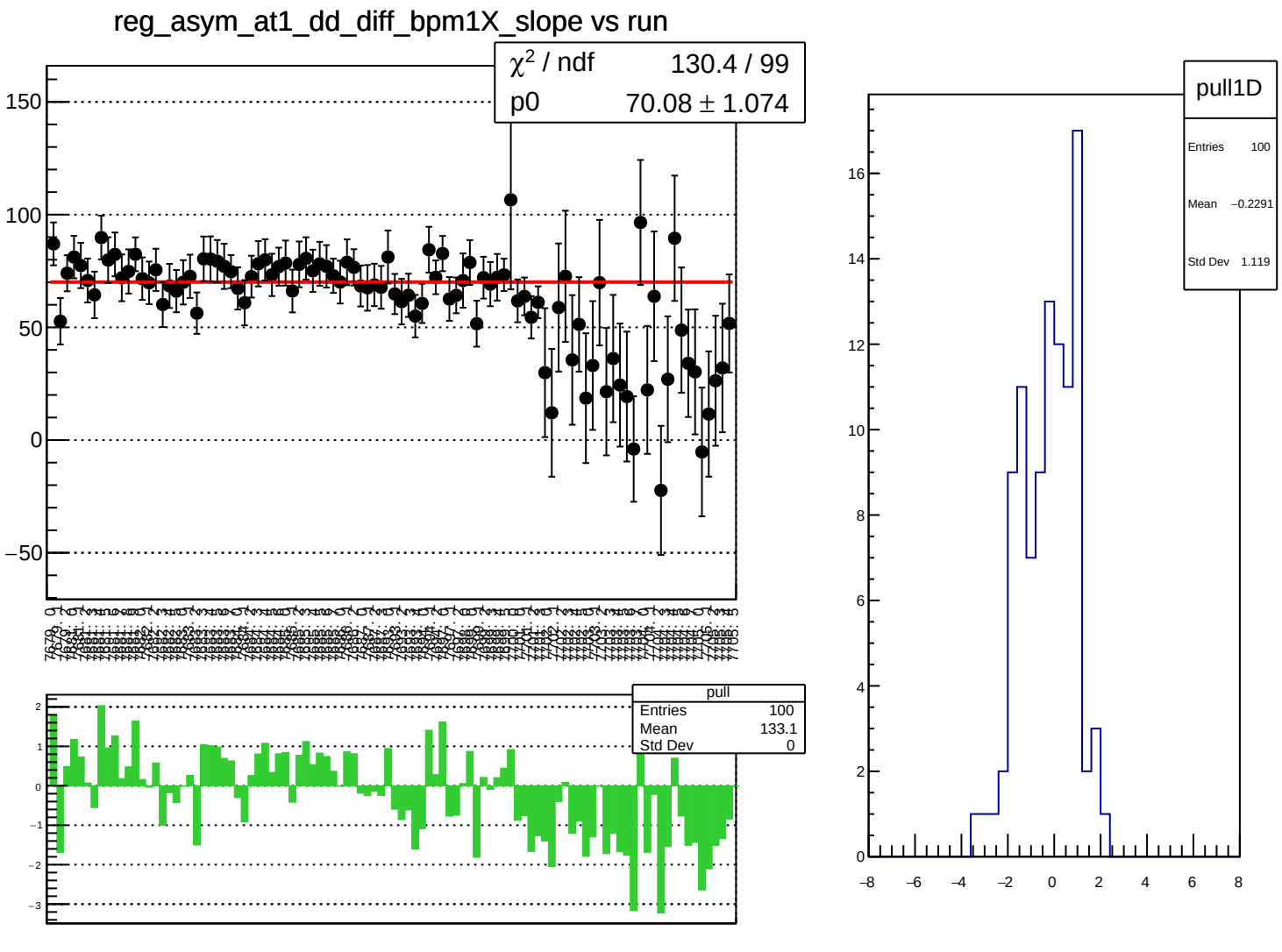

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 430.8 / 99
p0 67.03 ± 0.8105
100
50
0
−50
−100
pull
Entries 100
Mean 145.1
Std Dev 0
4
2
0
−2
−4
−6
pull1D
Entries 100
Mean −0.501
Std Dev 2.014
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

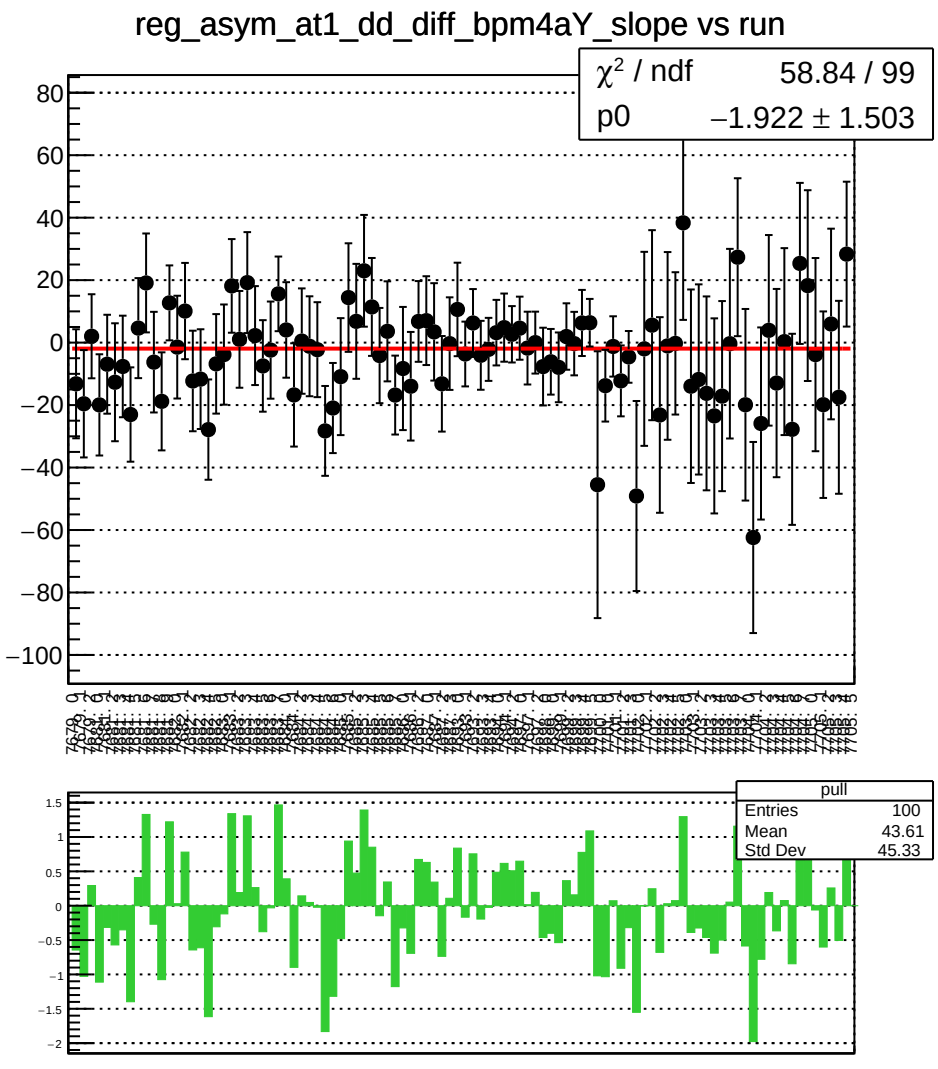

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 66.99 / 99
p0 0.4589 ± 2.058
100
50
0
−50
−100
pull
Entries 100
Mean −17.94
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

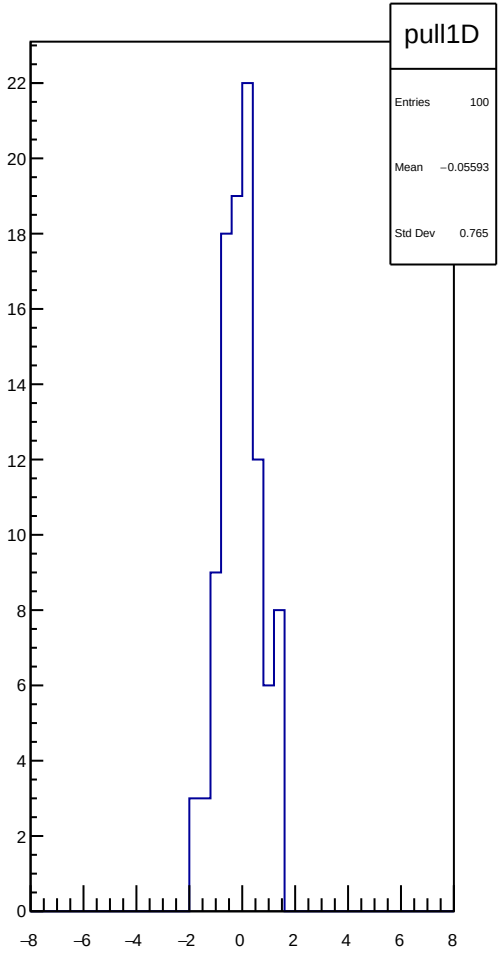

pull1D
Entries 100
Mean 0.03119
Std Dev 0.8179
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

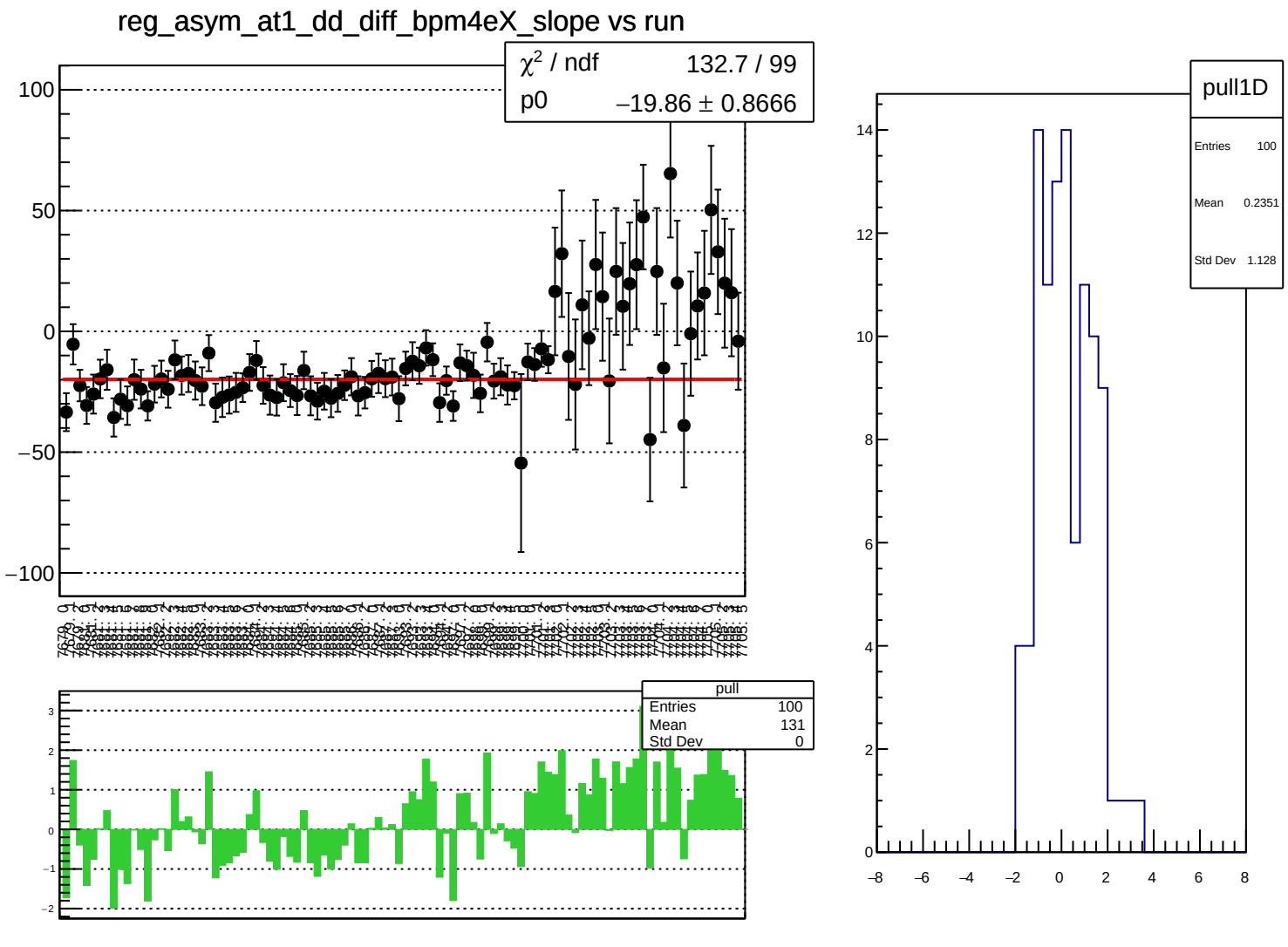

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 1.257e+04 / 99
p0 −28.63 ± 0.1018
pull
Entries 100
Mean −134.5
Std Dev 0

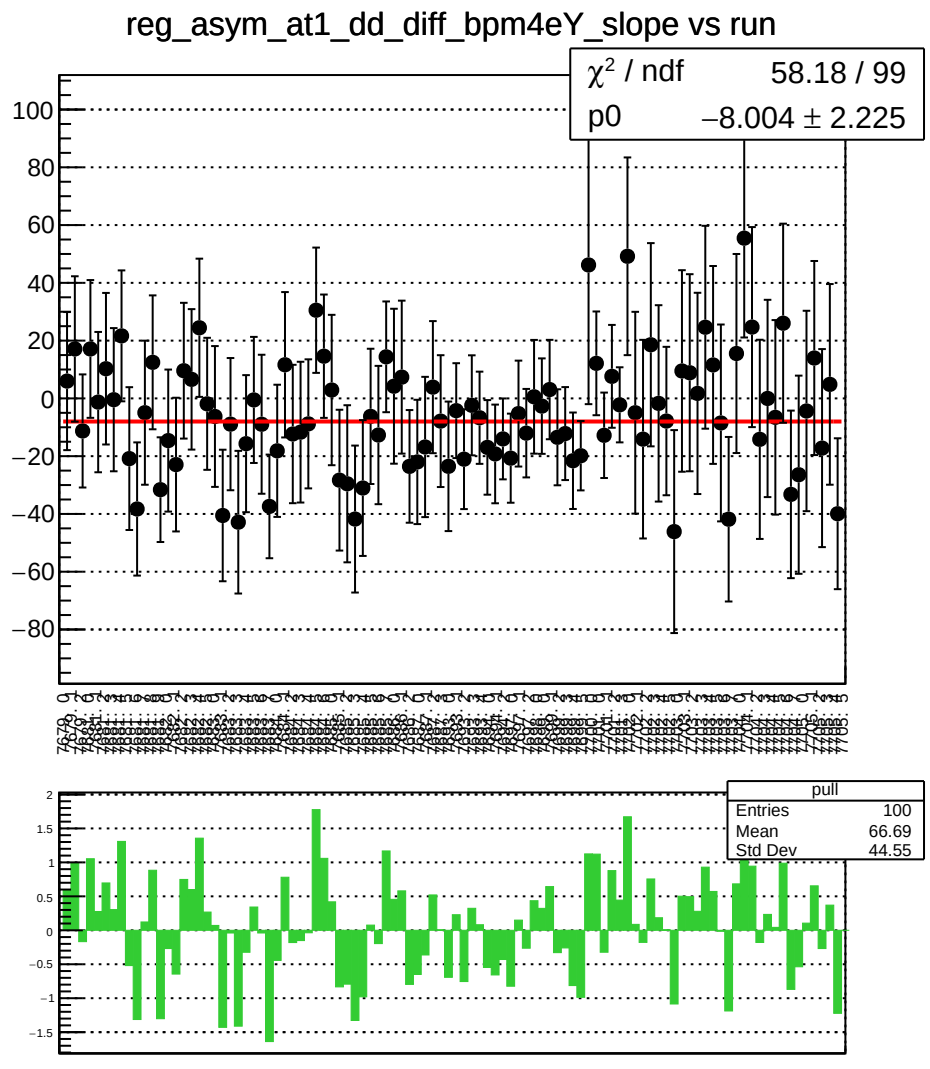

pull1D
Entries 100
Mean −4.114
Std Dev 2.162

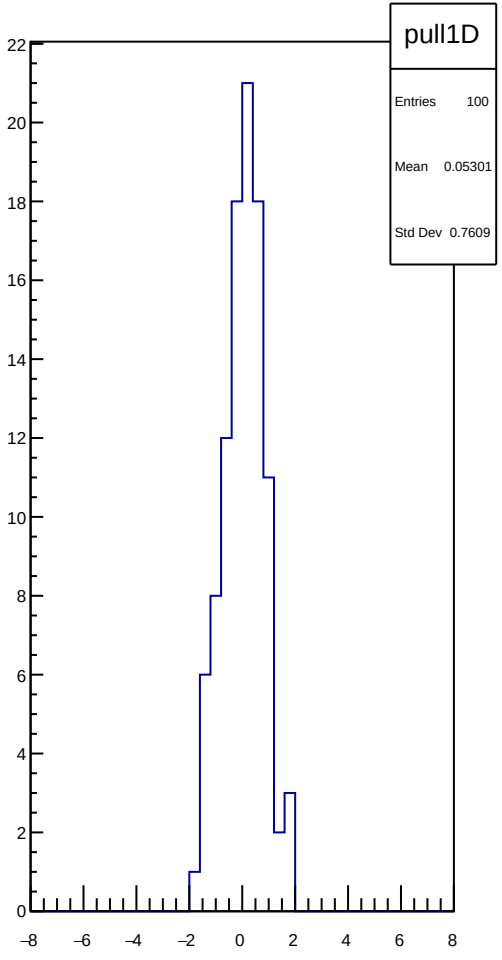

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 130.4 / 99
p0 70.08 ± 1.074
150
100
50
0
−50
pull
Entries 100
Mean 133.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean −0.2291
Std Dev 1.119
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

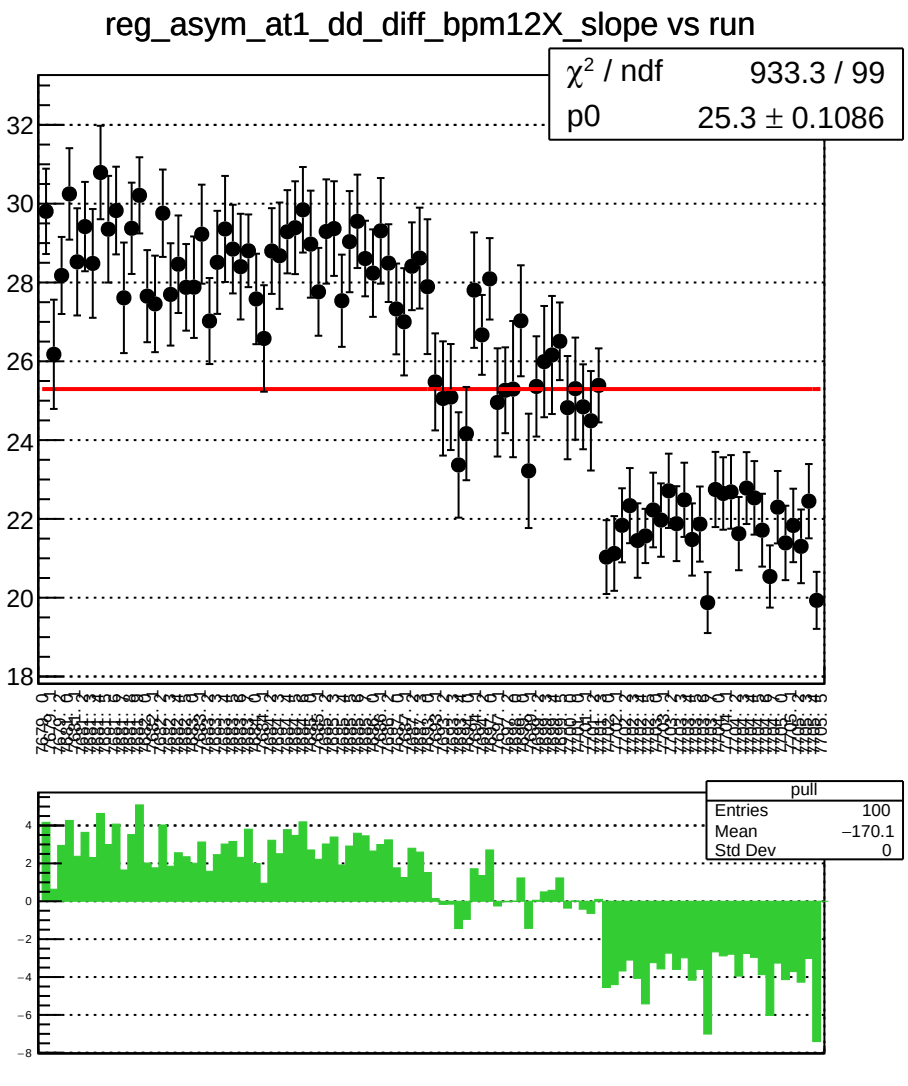

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 58.84 / 99
p0 −1.922 ± 1.503
pull
Entries 100
Mean 43.61
Std Dev 45.33

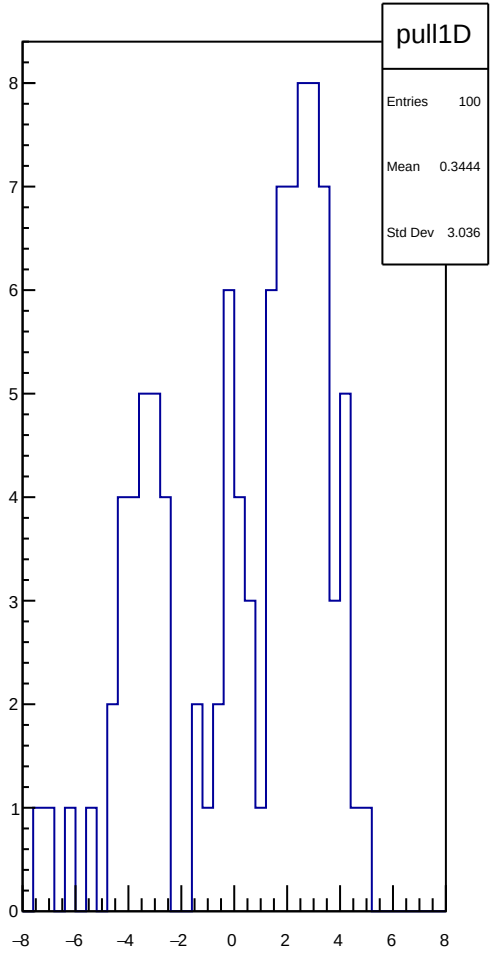

pull1D
Entries 100
Mean −0.05593
Std Dev 0.765

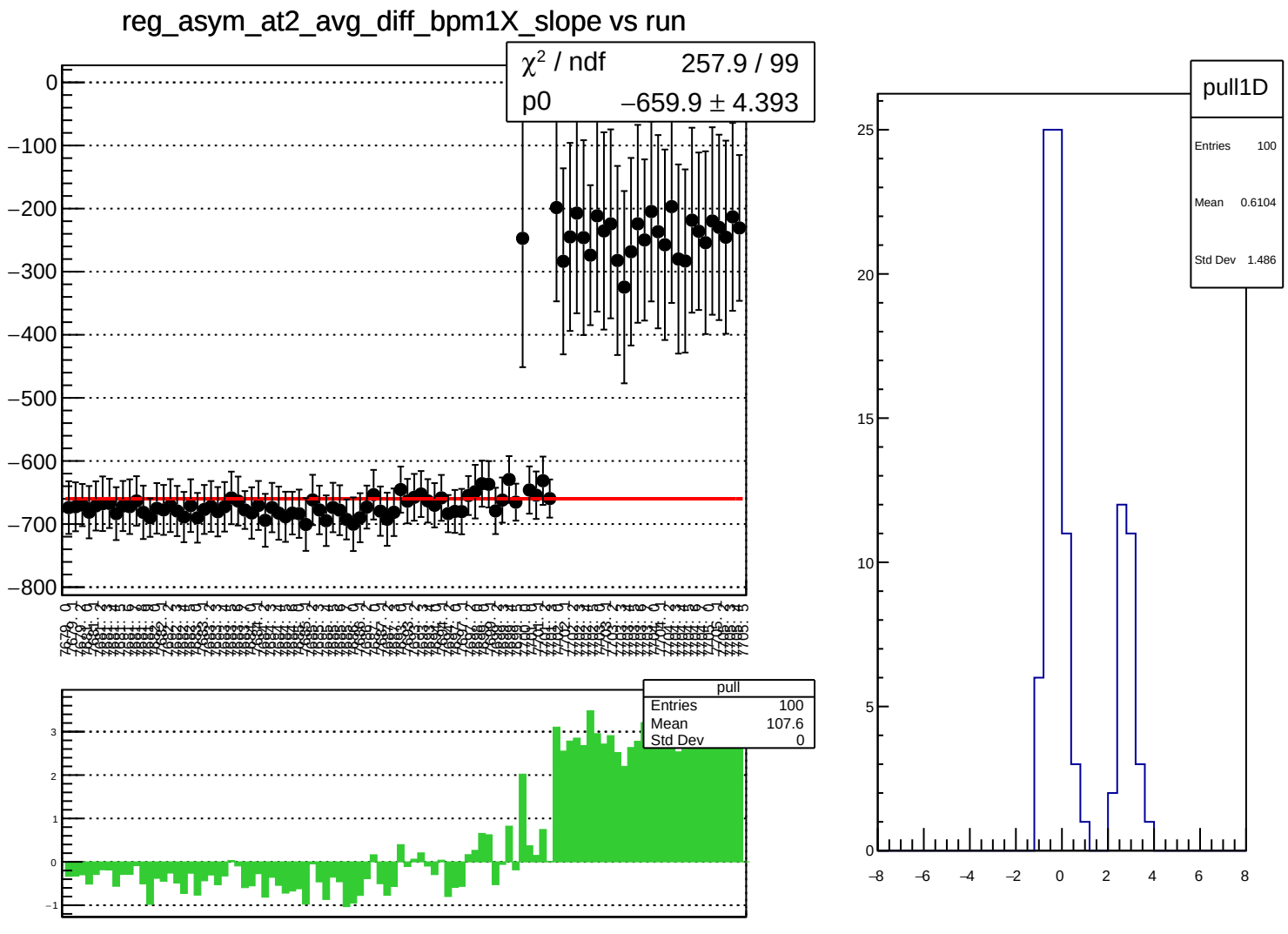

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 132.7 / 99
p0 −19.86 ± 0.8666
100
50
0
−50
−100
pull
Entries 100
Mean 131
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.2351
Std Dev 1.128
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

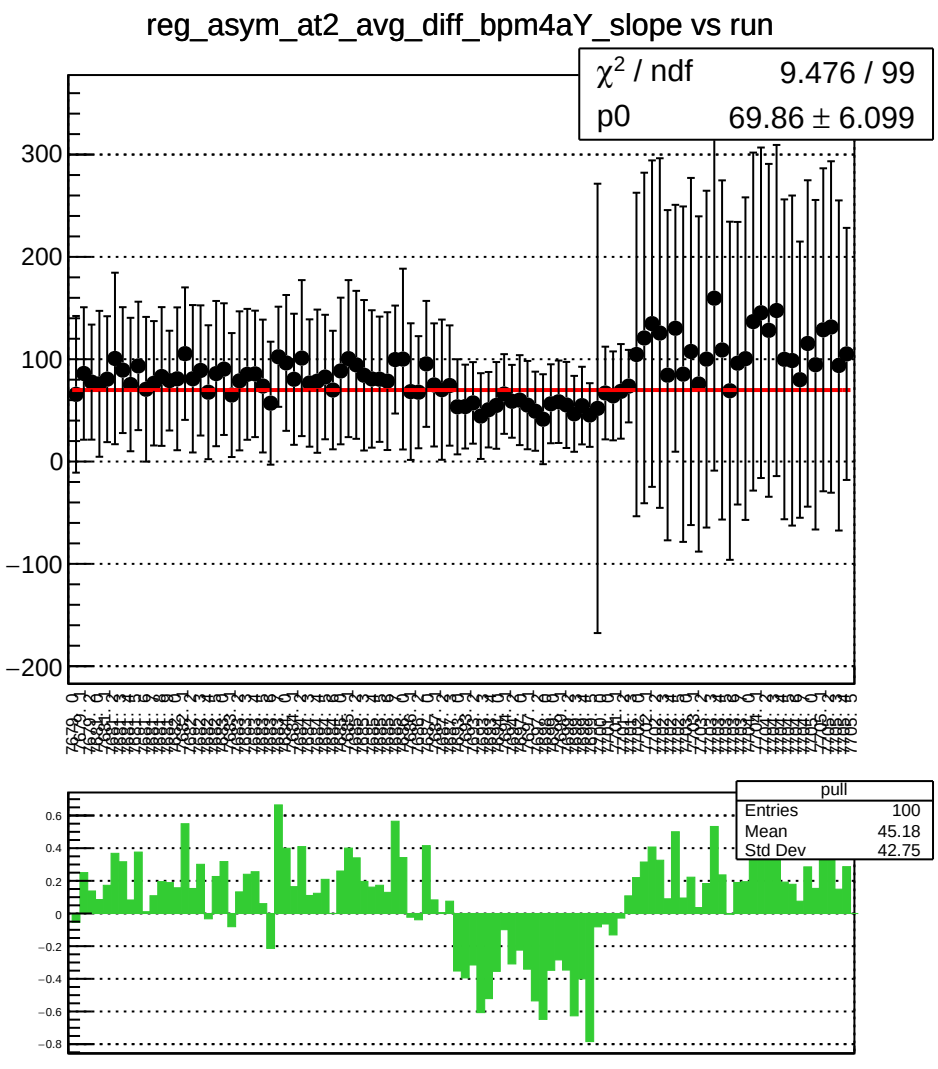

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 58.18 / 99
p0 −8.004 ± 2.225
pull
Entries 100
Mean 66.69
Std Dev 44.55

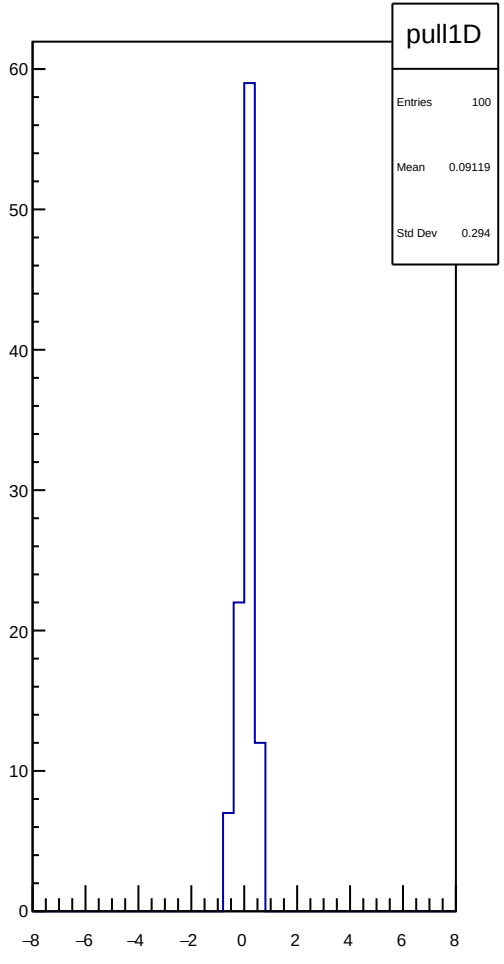

pull1D
Entries 100
Mean 0.05301
Std Dev 0.7609

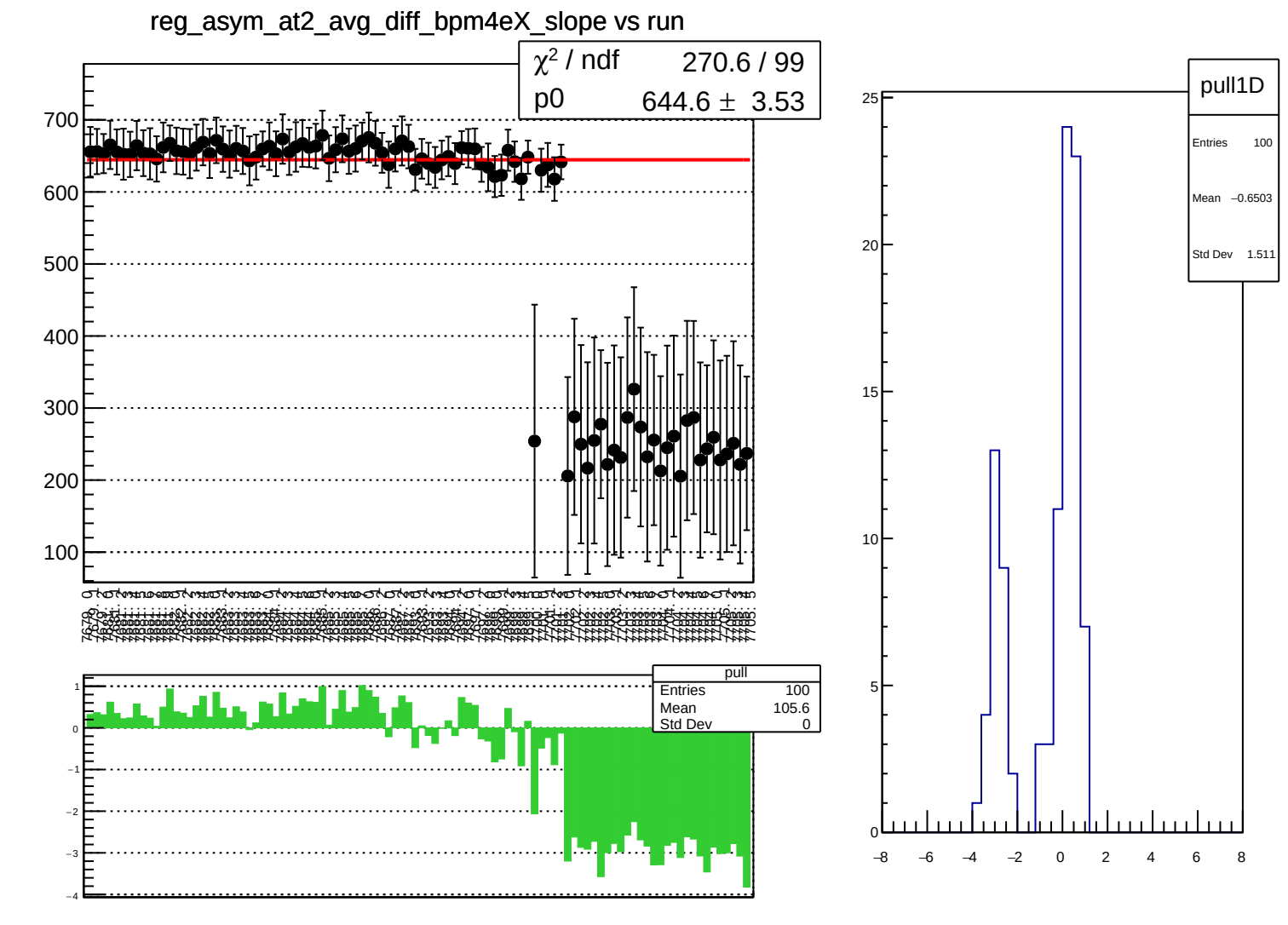

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 933.3 / 99
p0 25.3 ± 0.1086
pull
Entries 100
Mean −170.1
Std Dev 0

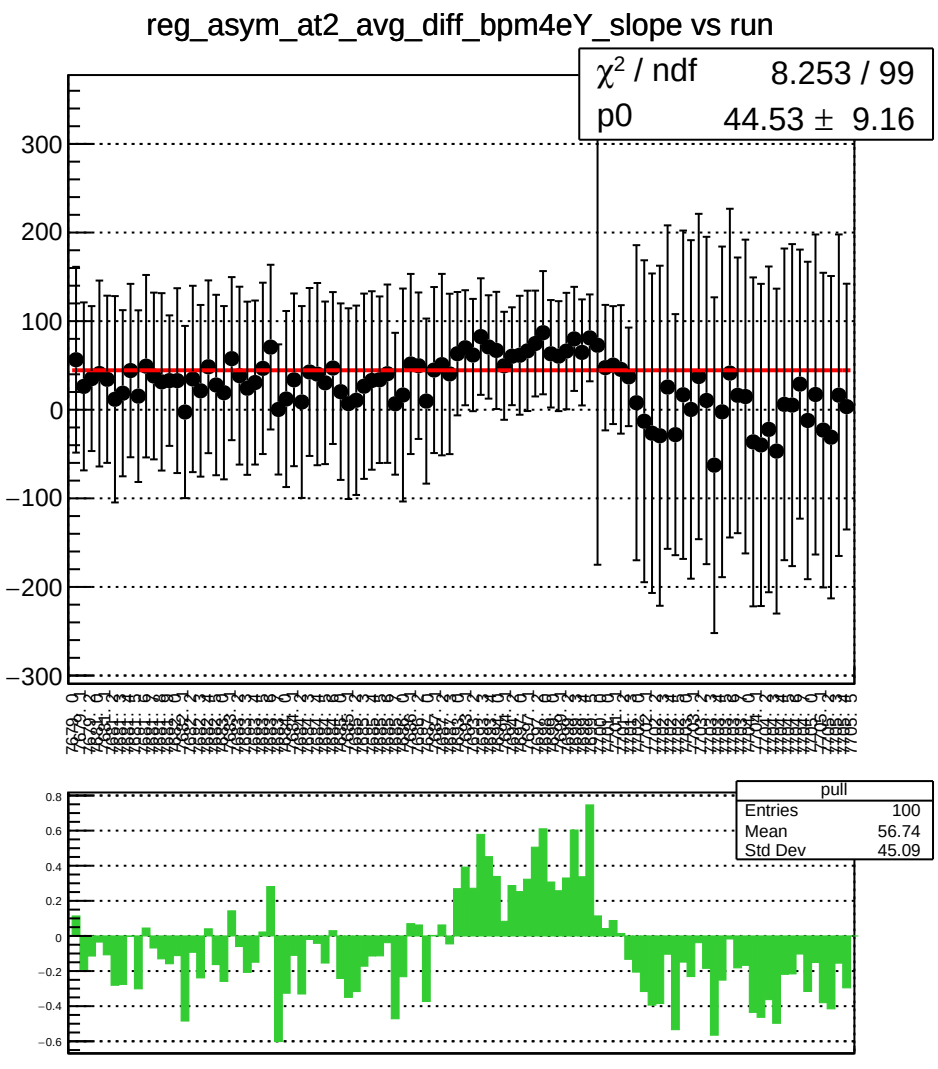

pull1D
Entries 100
Mean 0.3444
Std Dev 3.036

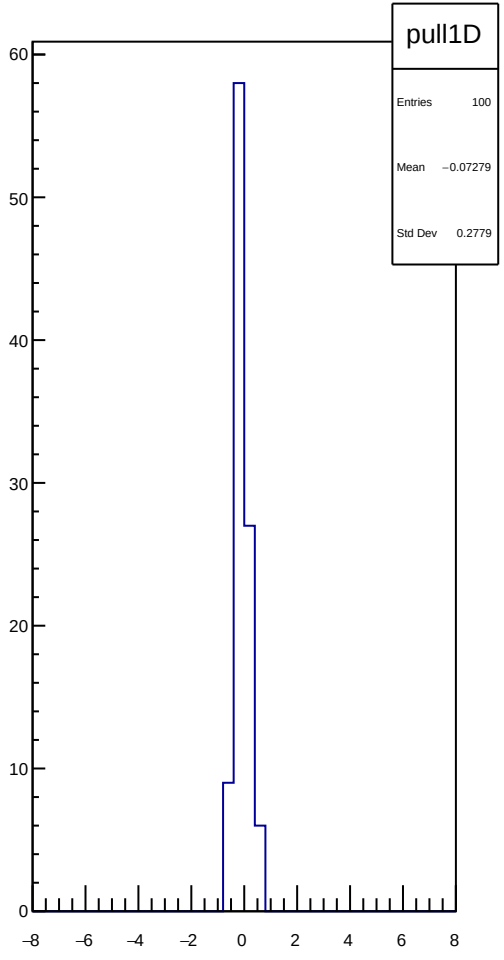

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 257.9 / 99
p0 −659.9 ± 4.393
pull
Entries 100
Mean 107.6
Std Dev 0
pull1D
Entries 100
Mean 0.6104
Std Dev 1.486

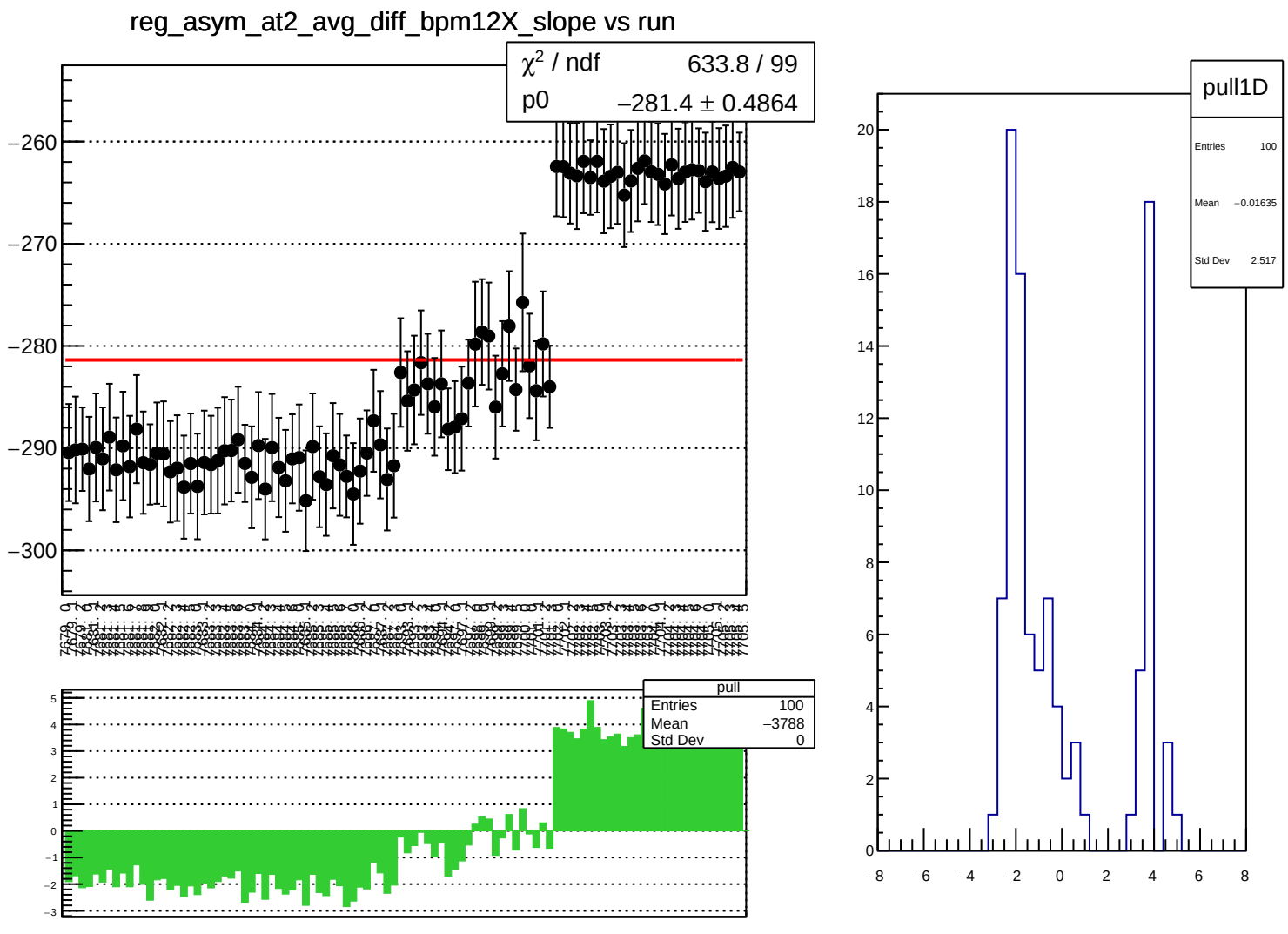

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.476 / 99
p0 69.86 ± 6.099
300
200
100
0
−100
−200
pull
Entries 100
Mean 45.18
Std Dev 42.75
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

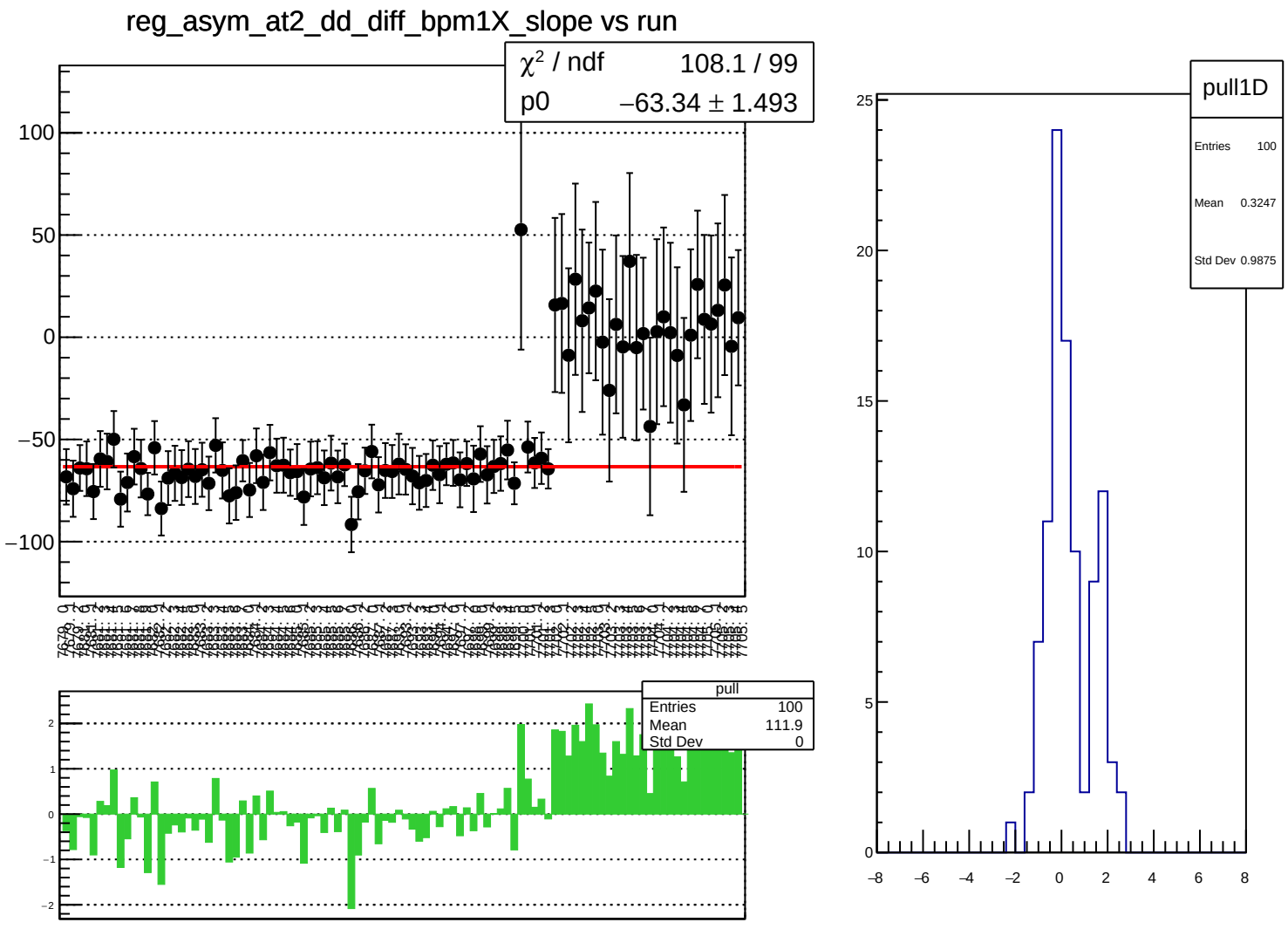

pull1D
Entries 100
Mean 0.09119
Std Dev 0.294
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

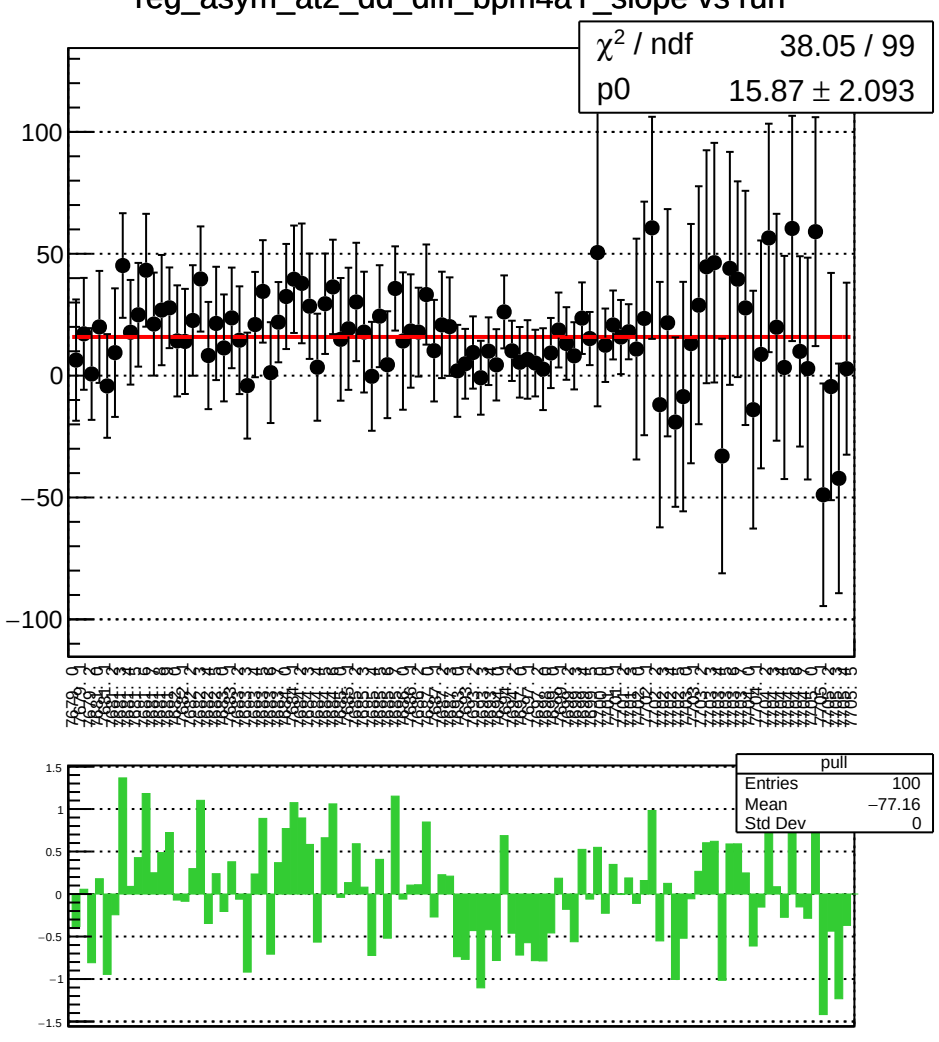

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 270.6 / 99
p0 644.6 ± 3.53
700
600
500
400
300
200
100
pull
Entries 100
Mean 105.6
Std Dev 0
1
0
−1
−2
−3
−4
pull1D
Entries 100
Mean −0.6503
Std Dev 1.511
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

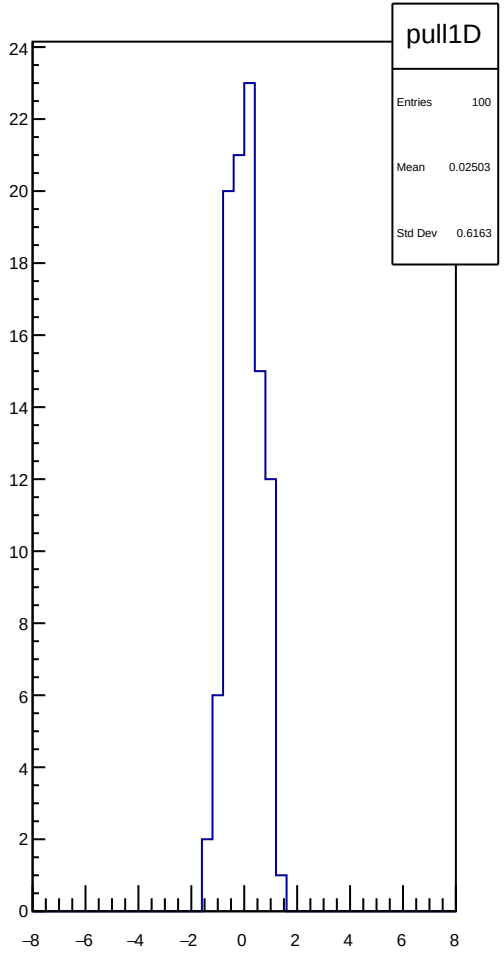

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.253 / 99
p0 44.53 ± 9.16
300
200
100
0
−100
−200
−300
pull
Entries 100
Mean 56.74
Std Dev 45.09
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

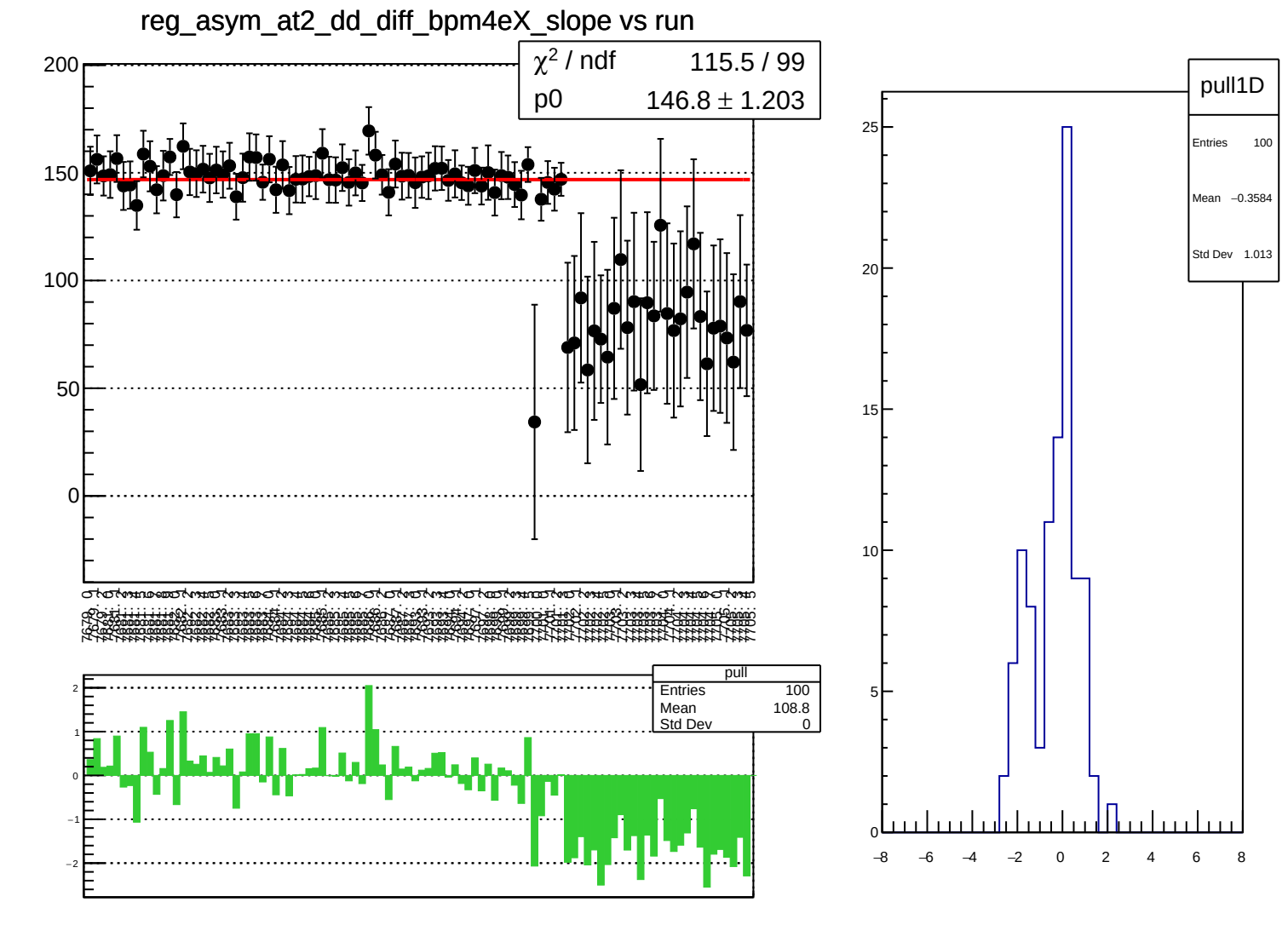

pull1D
Entries 100
Mean −0.07279
Std Dev 0.2779
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

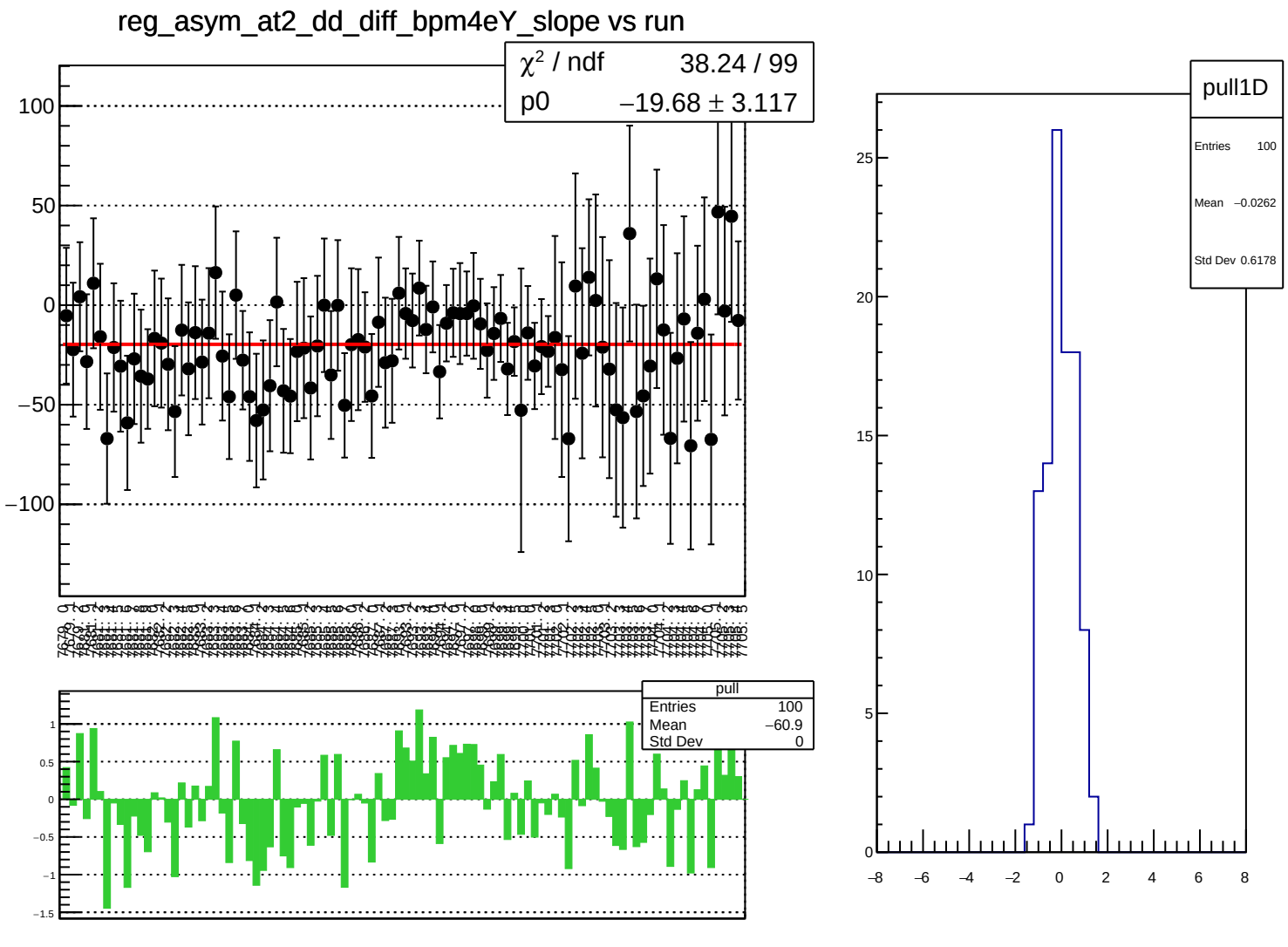

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 633.8 / 99
p0 −281.4 ± 0.4864
−260
−270
−280
−290
−300
pull
Entries 100
Mean −3788
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean −0.01635
Std Dev 2.517
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

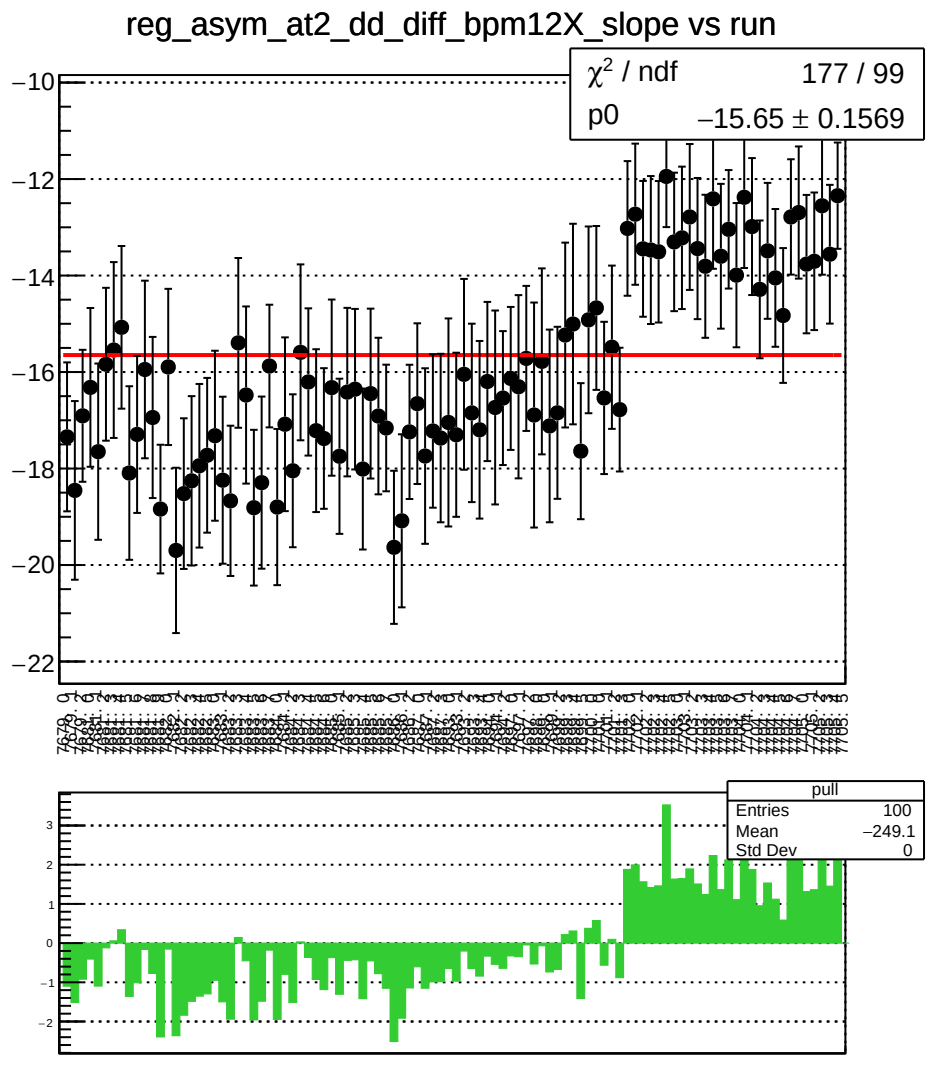

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 108.1 / 99
p0 −63.34 ± 1.493
100
50
0
−50
−100
pull
Entries 100
Mean 111.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.3247
Std Dev 0.9875
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

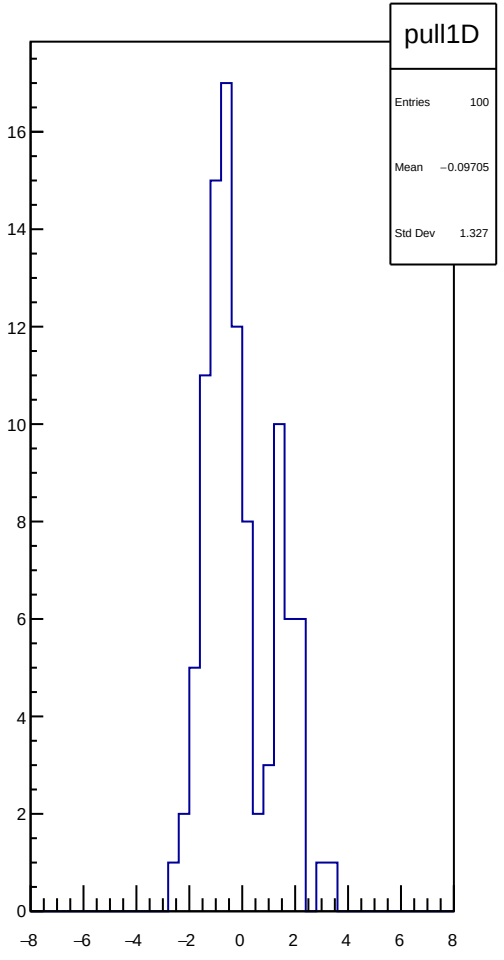

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 38.05 / 99
p0 15.87 ± 2.093
100
50
0
−50
−100
pull
Entries 100
Mean −77.16
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

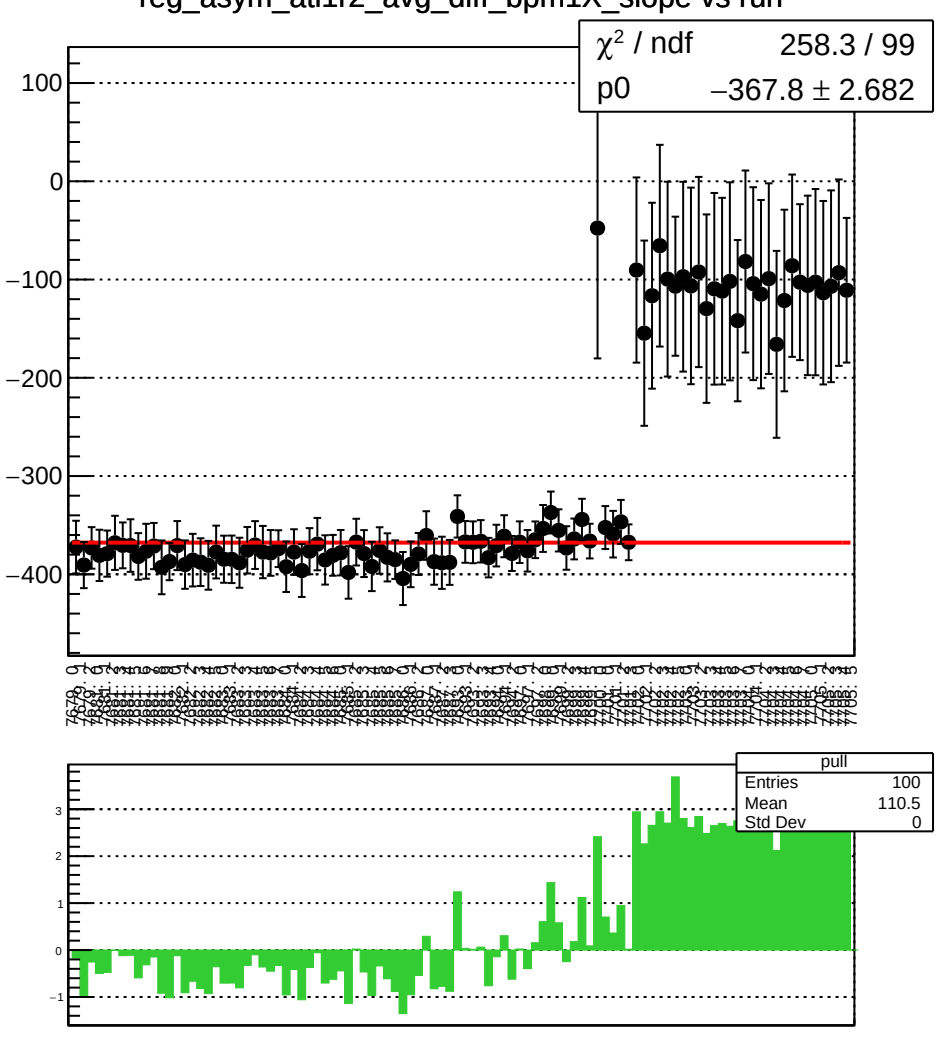

pull1D
Entries 100
Mean 0.02503
Std Dev 0.6163
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

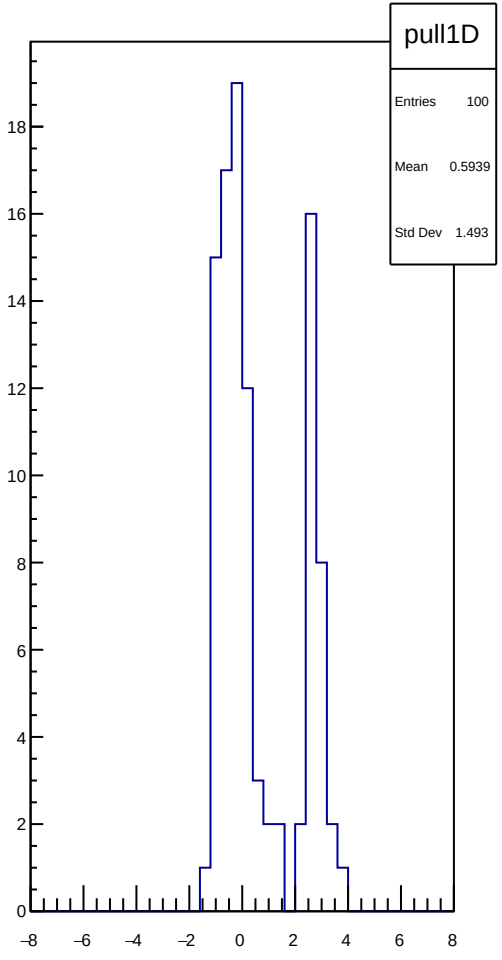

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 115.5 / 99
p0 146.8 ± 1.203
200
150
100
50
0
pull
Entries 100
Mean 108.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.3584
Std Dev 1.013
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

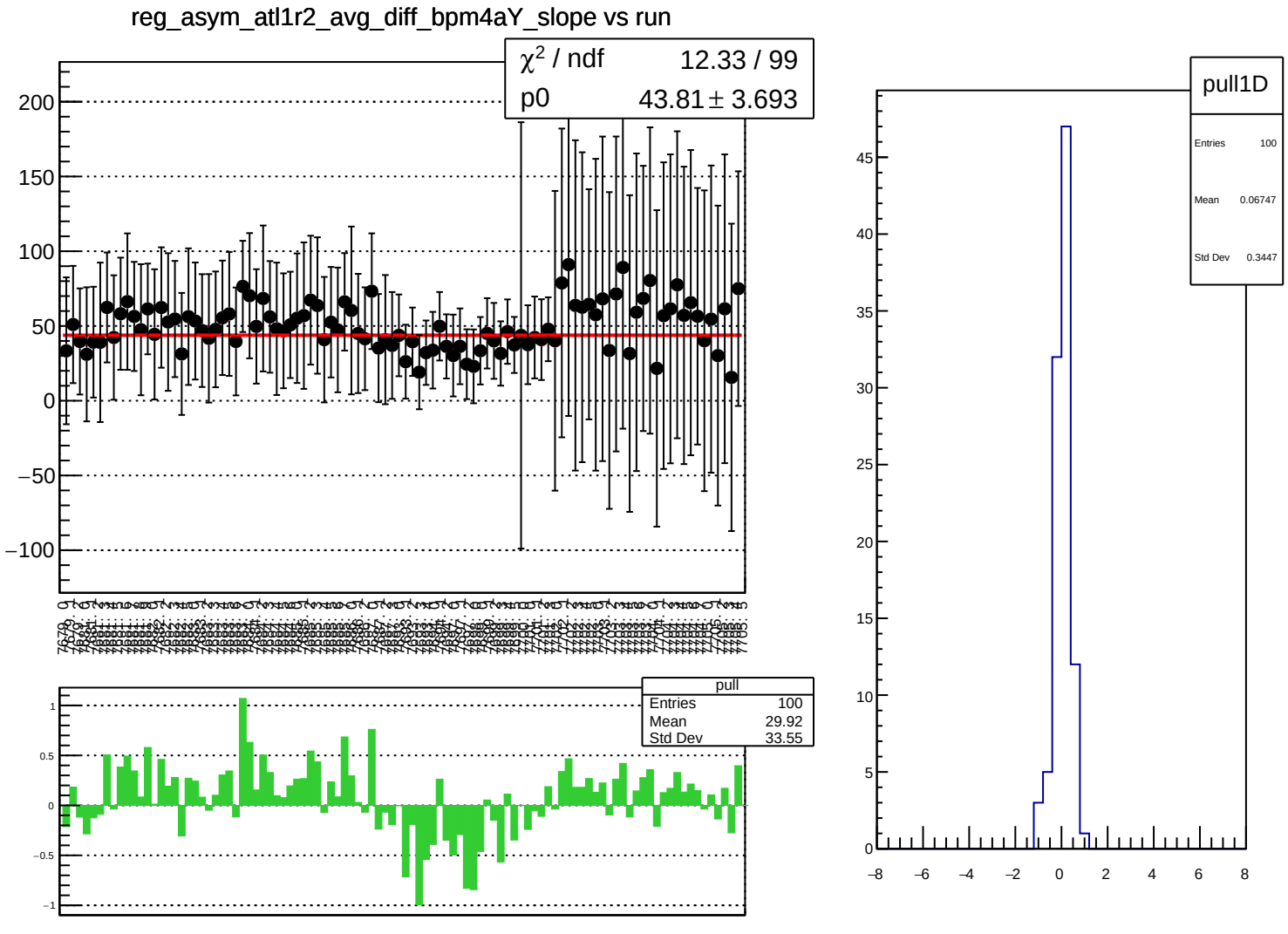

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 38.24 / 99
p0 −19.68 ± 3.117
100
50
0
−50
−100
pull
Entries 100
Mean −60.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 100
Mean −0.0262
Std Dev 0.6178
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

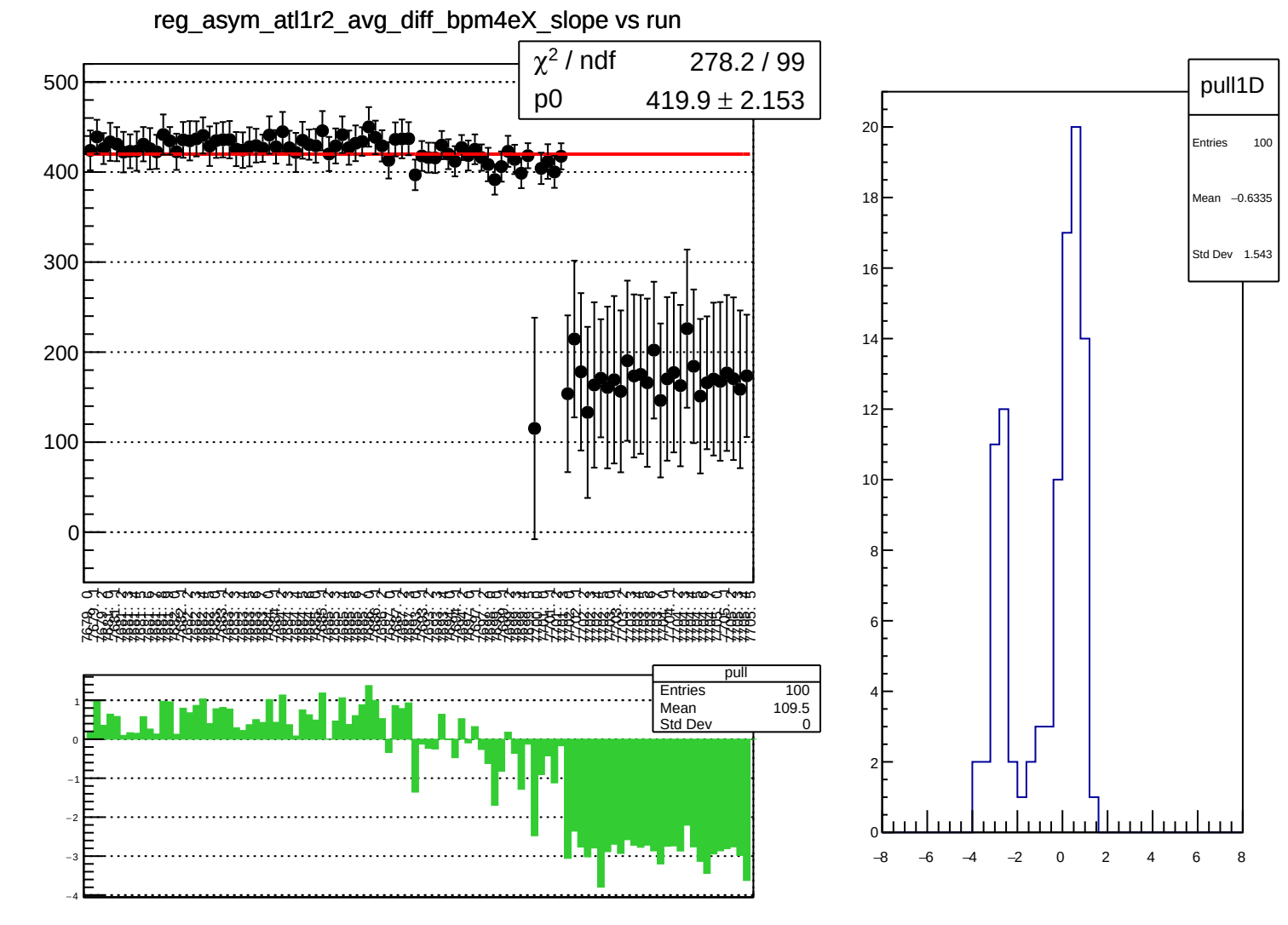

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 177 / 99
p0 −15.65 ± 0.1569
pull
Entries 100
Mean −249.1
Std Dev 0

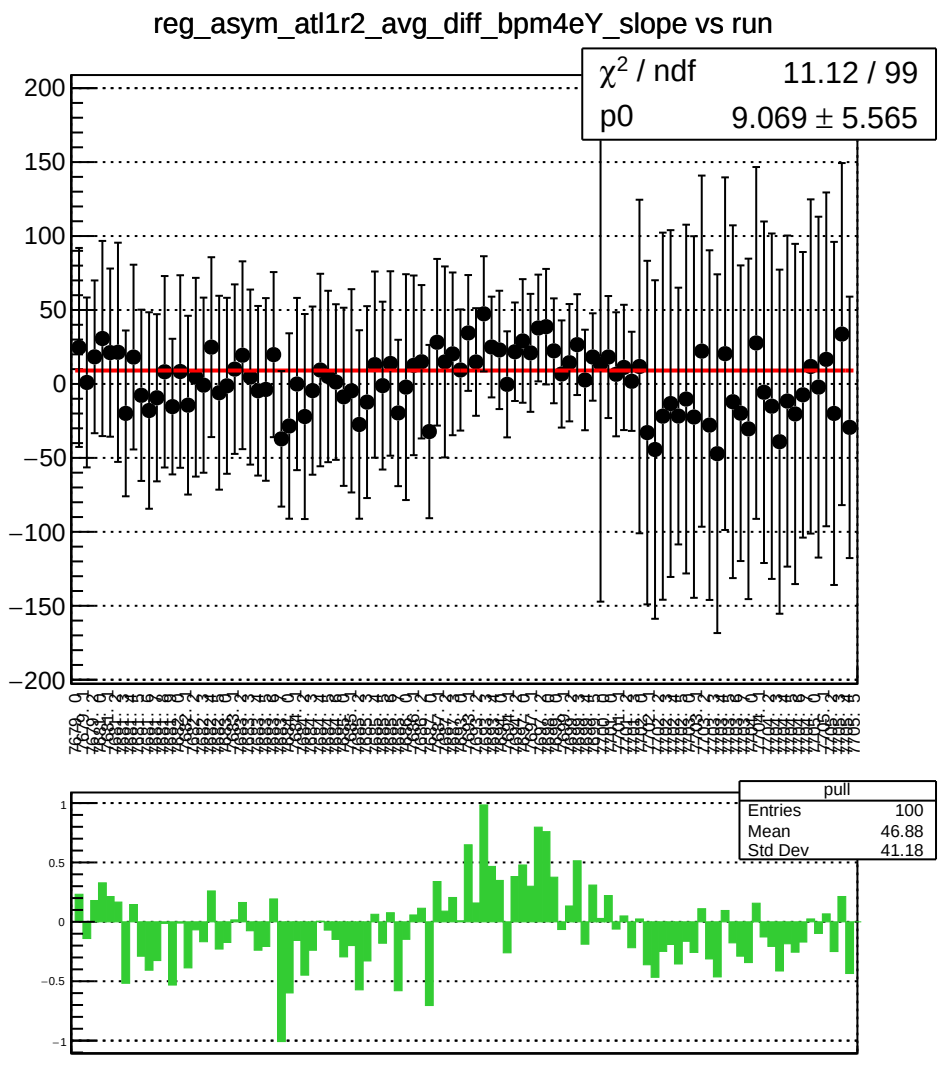

pull1D
Entries 100
Mean −0.09705
Std Dev 1.327

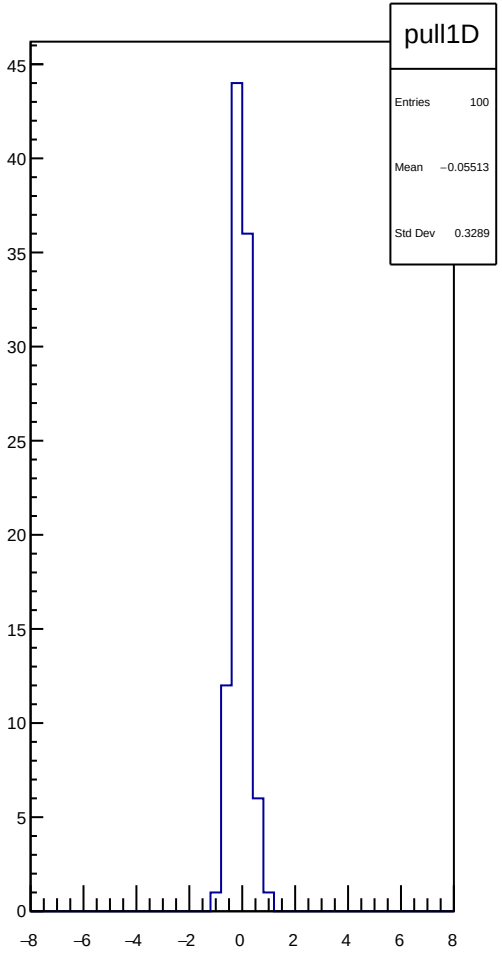

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 258.3 / 99
p0 −367.8 ± 2.682
pull
Entries 100
Mean 110.5
Std Dev 0

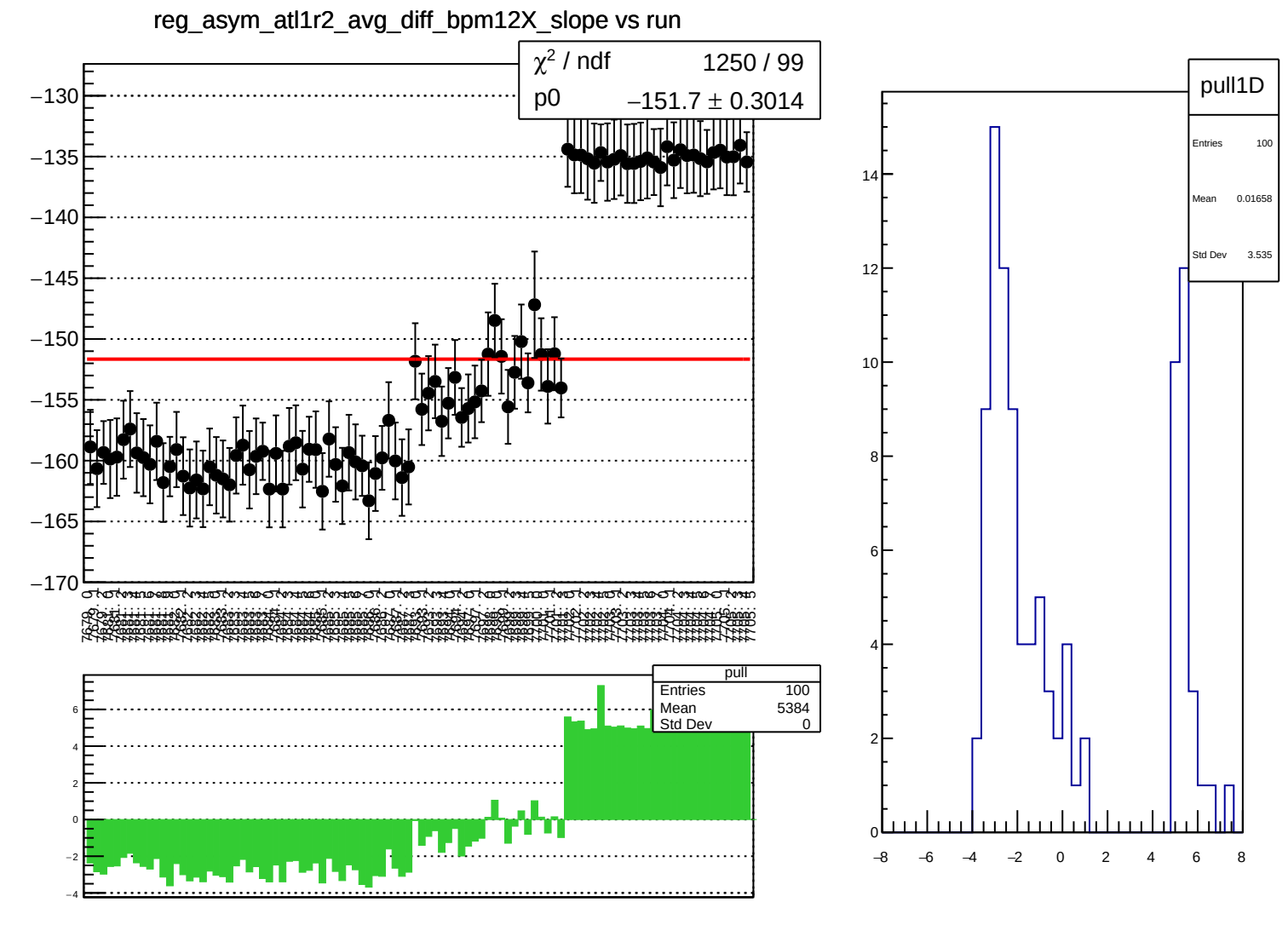

pull1D
Entries 100
Mean 0.5939
Std Dev 1.493

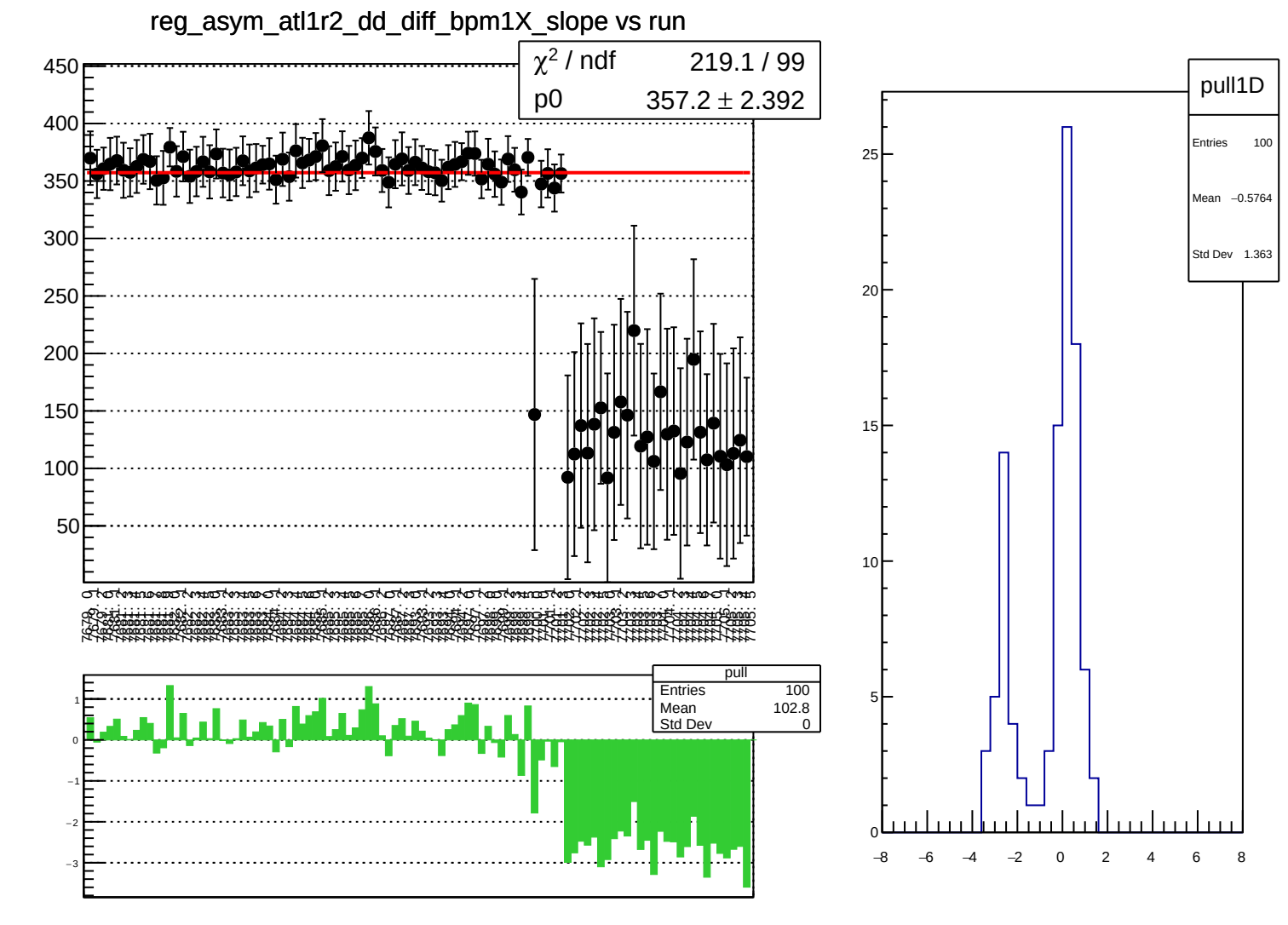

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.33 / 99
p0 43.81 ± 3.693
200
150
100
50
0
−50
−100
pull
Entries 100
Mean 29.92
Std Dev 33.55
1
0.5
0
−0.5
−1
pull1D
Entries 100
Mean 0.06747
Std Dev 0.3447
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

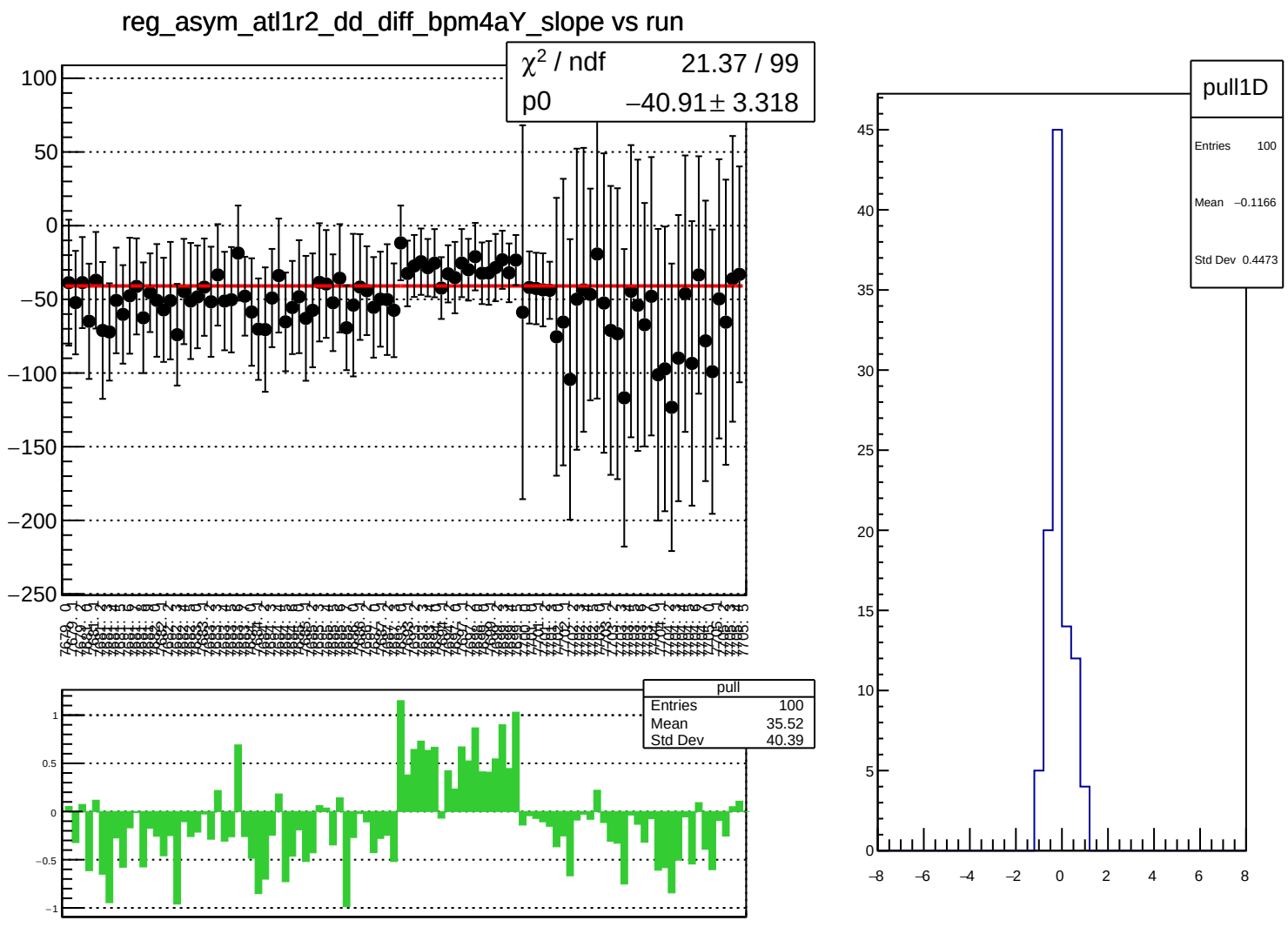

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 278.2 / 99
p0 419.9 ± 2.153
pull
Entries 100
Mean 109.5
Std Dev 0
pull1D
Entries 100
Mean −0.6335
Std Dev 1.543

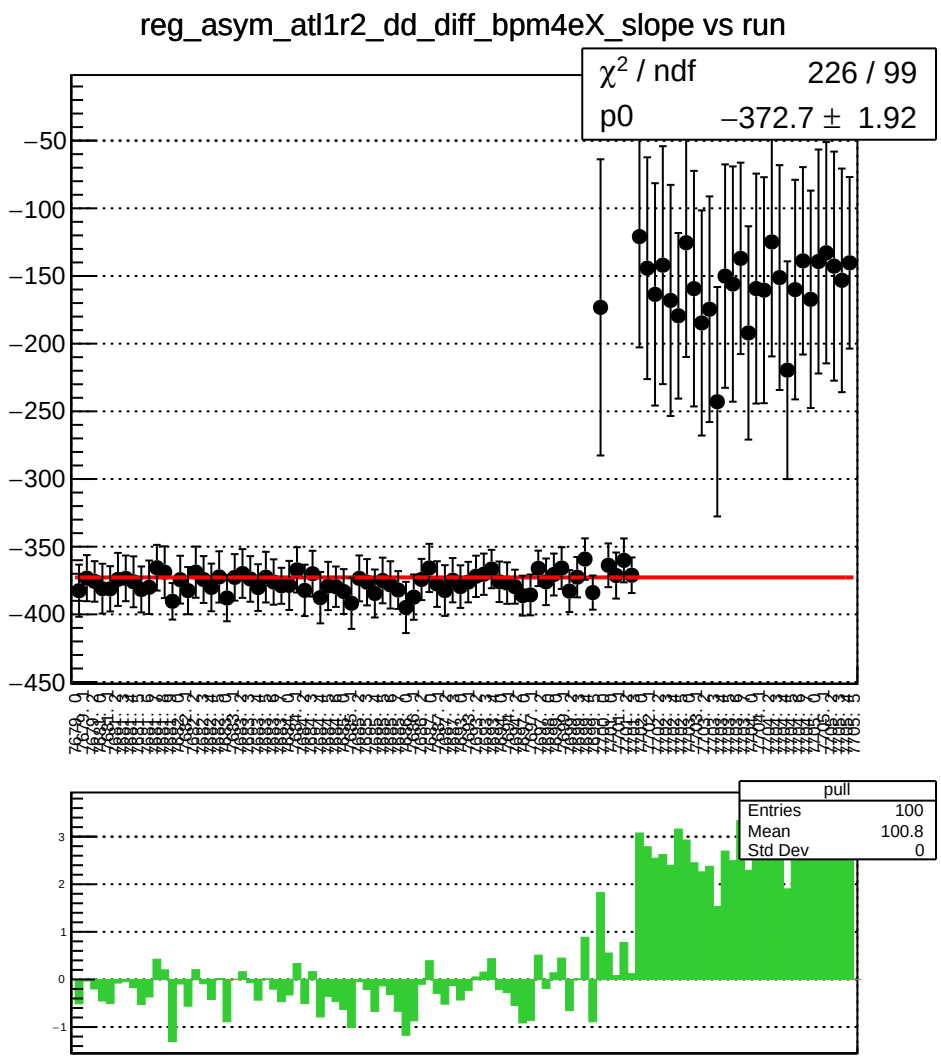

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.12 / 99
p0 9.069 ± 5.565
pull
Entries 100
Mean 46.88
Std Dev 41.18

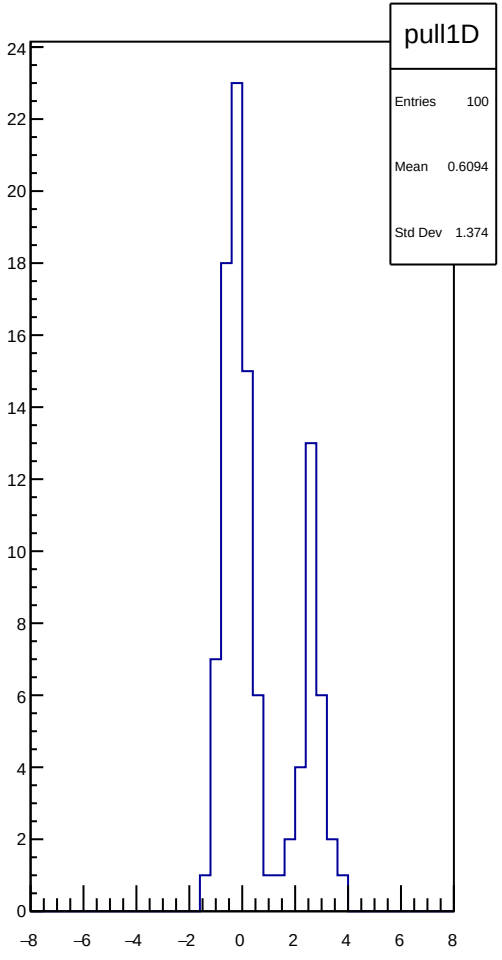

pull1D
Entries 100
Mean −0.05513
Std Dev 0.3289

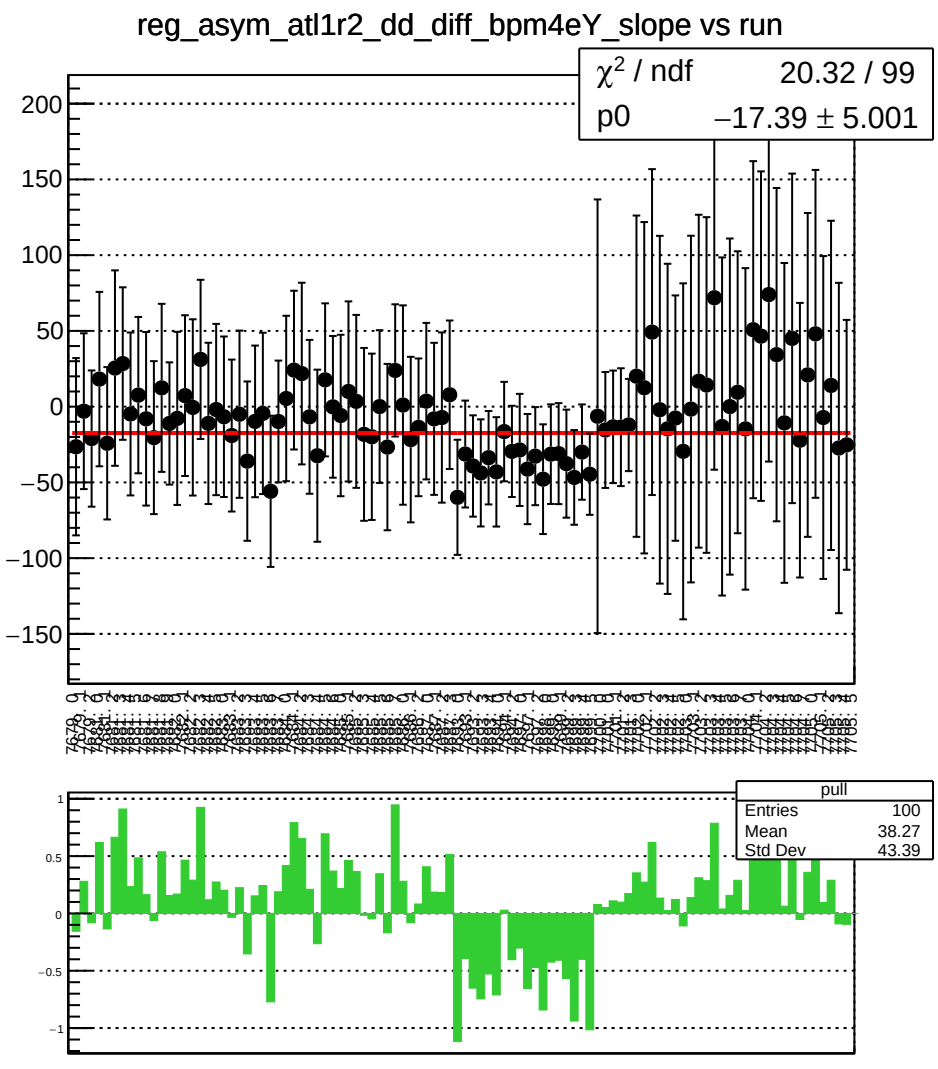

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 1250 / 99
p0 −151.7 ± 0.3014
pull
Entries 100
Mean 5384
Std Dev 0
pull1D
Entries 100
Mean 0.01658
Std Dev 3.535

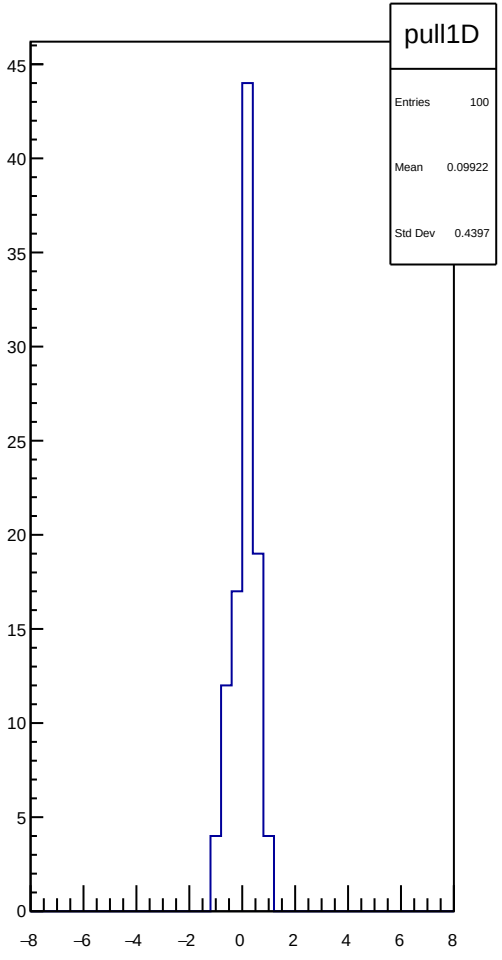

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 219.1 / 99
p0 357.2 ± 2.392
pull
Entries 100
Mean 102.8
Std Dev 0
pull1D
Entries 100
Mean −0.5764
Std Dev 1.363

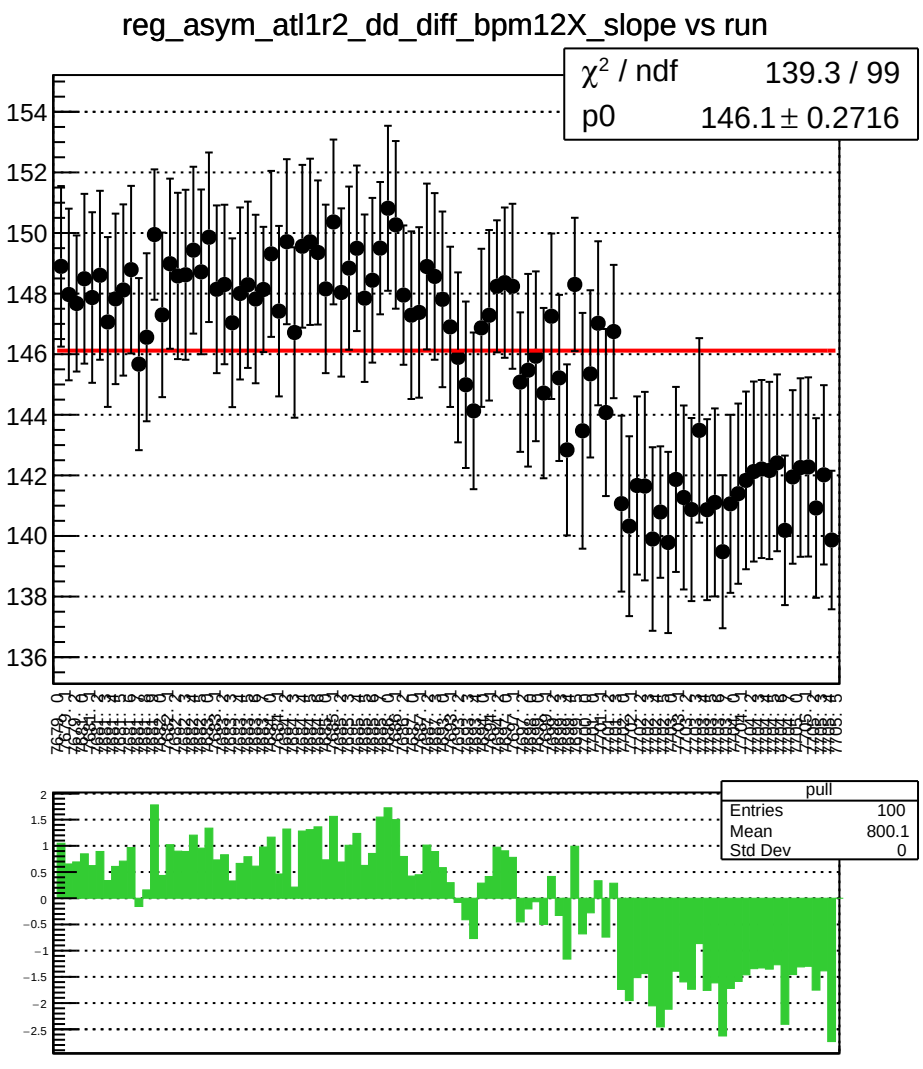

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.37 / 99
p0 −40.91 ± 3.318
pull
Entries 100
Mean 35.52
Std Dev 40.39
pull1D
Entries 100
Mean −0.1166
Std Dev 0.4473

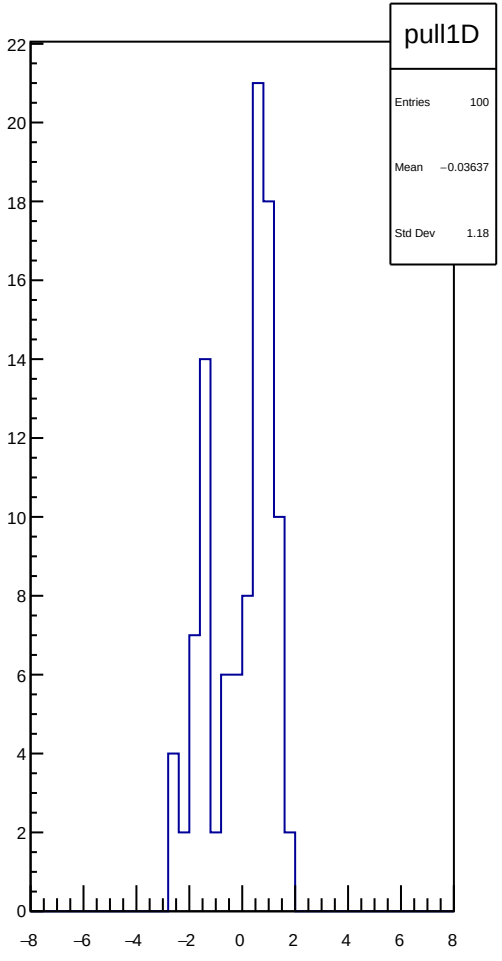

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 226 / 99
p0 −372.7 ± 1.92
pull
Entries 100
Mean 100.8
Std Dev 0

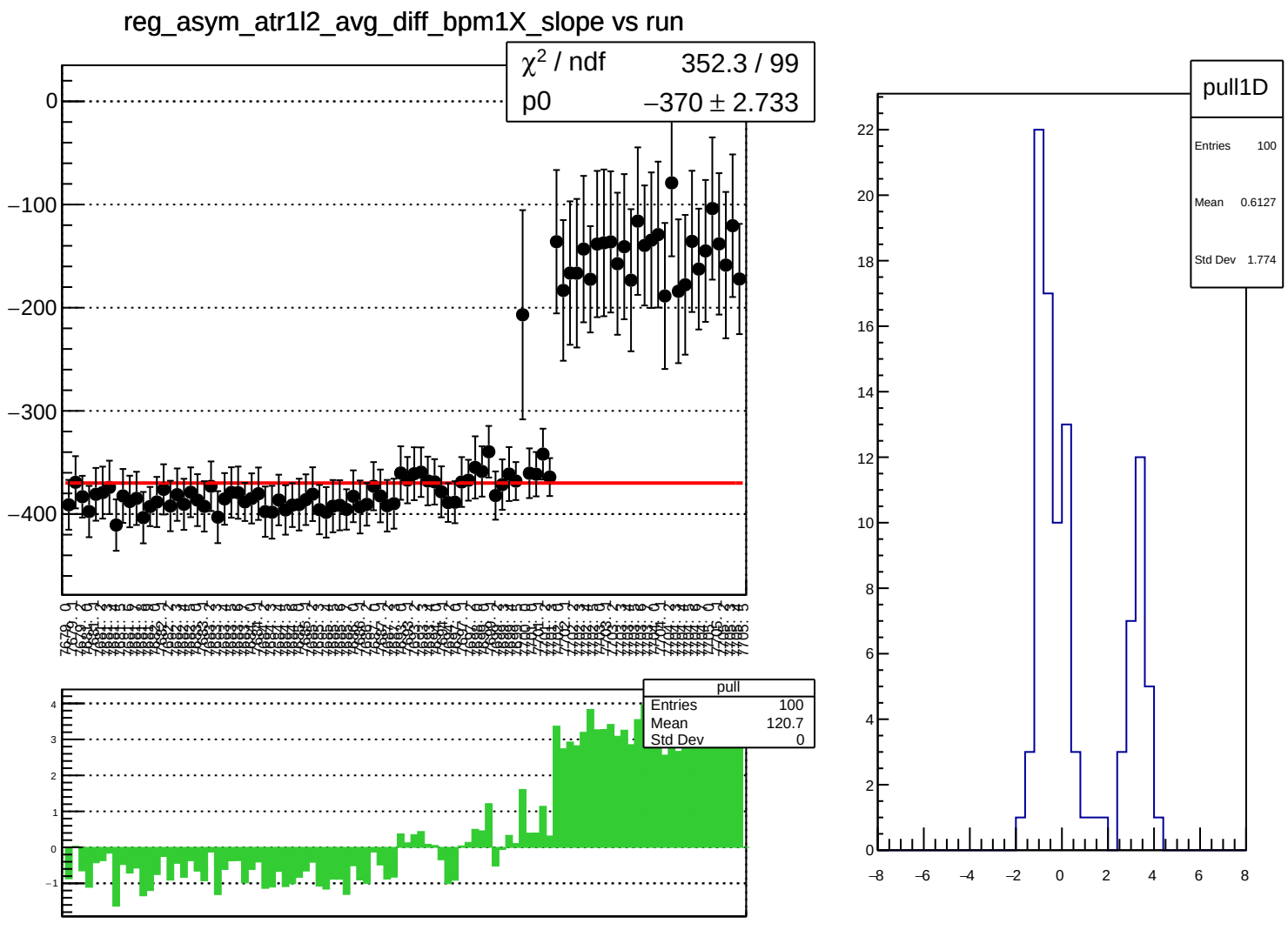

pull1D
Entries 100
Mean 0.6094
Std Dev 1.374

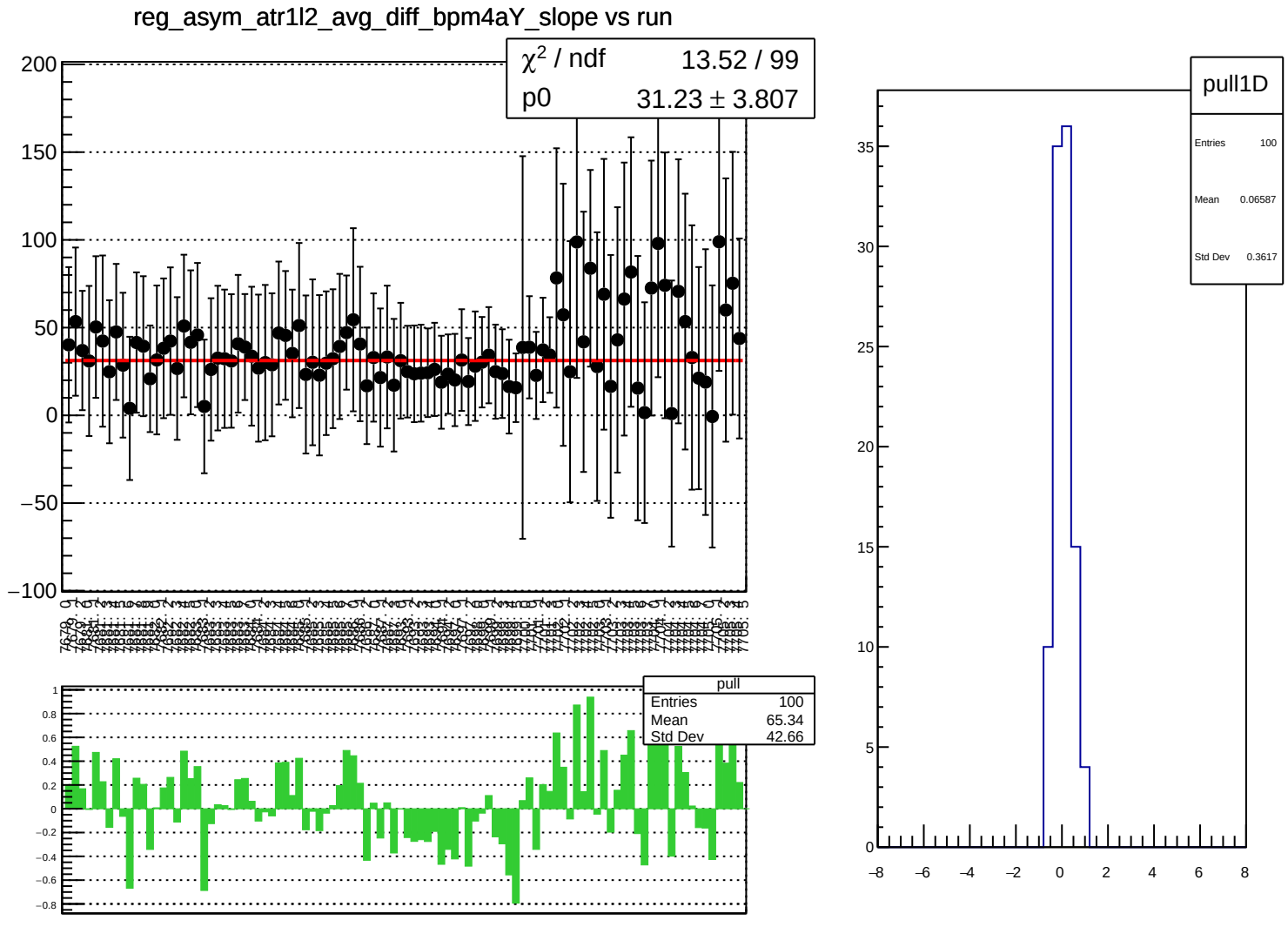

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.32 / 99
p0 −17.39 ± 5.001
200
150
100
50
0
−50
−100
−150
pull
Entries 100
Mean 38.27
Std Dev 43.39
1
0.5
0
−0.5
−1

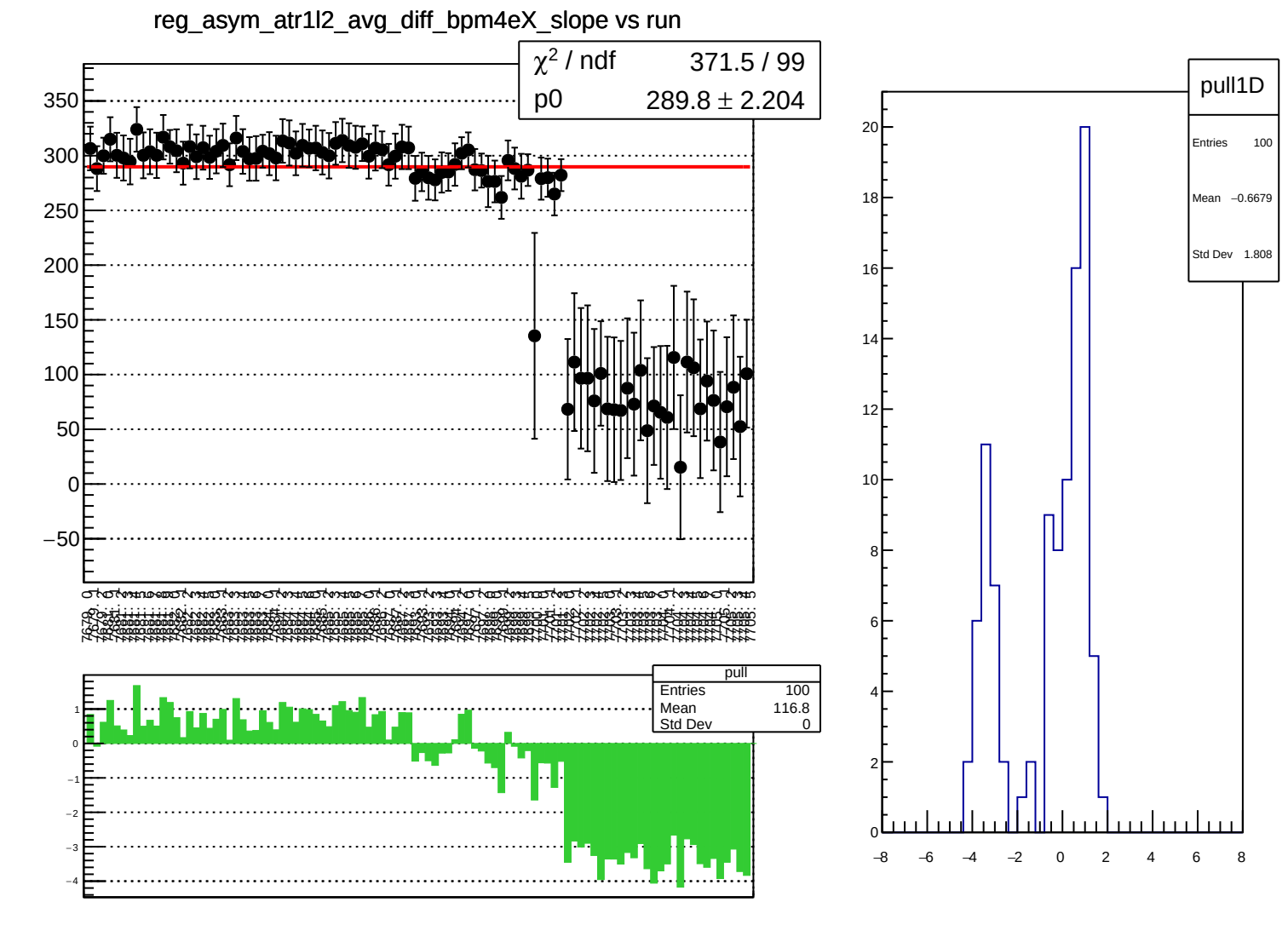

pull1D
Entries 100
Mean 0.09922
Std Dev 0.4397
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

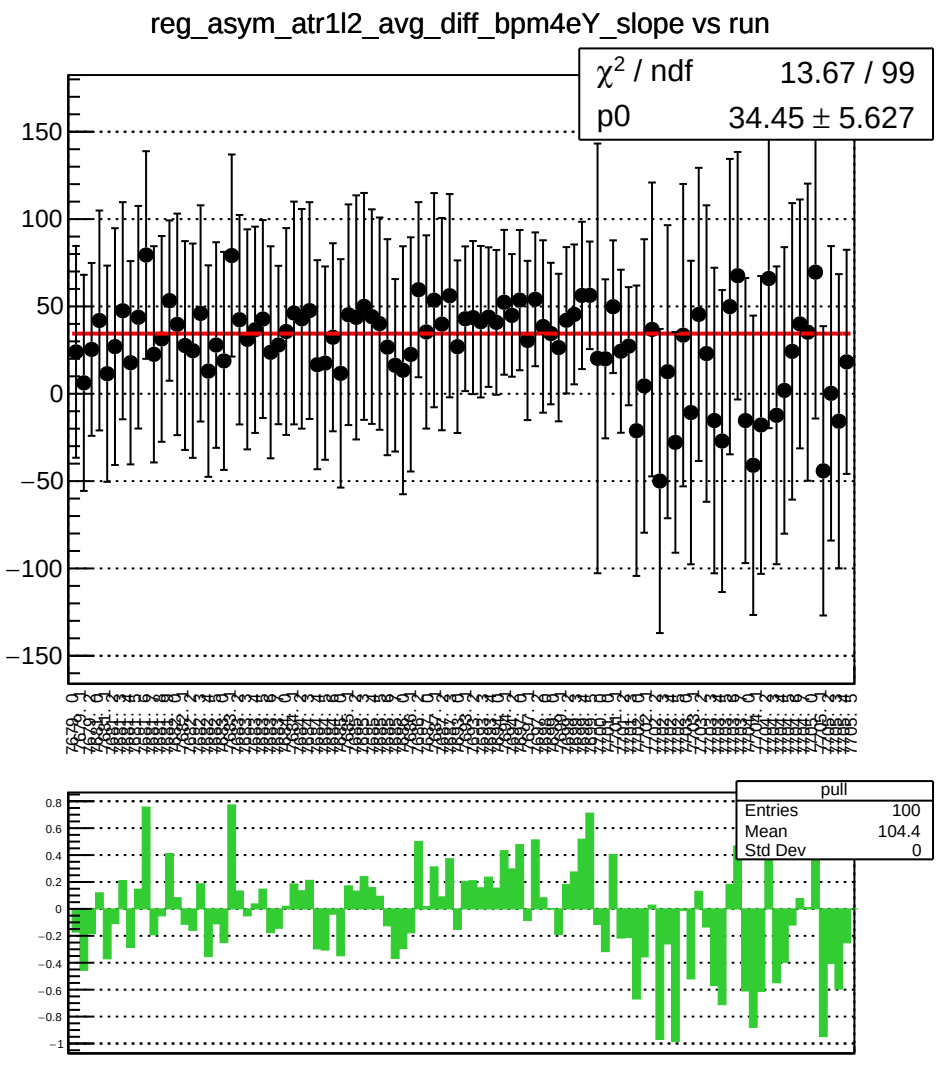

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 139.3 / 99
p0 146.1 ± 0.2716
pull
Entries 100
Mean 800.1
Std Dev 0

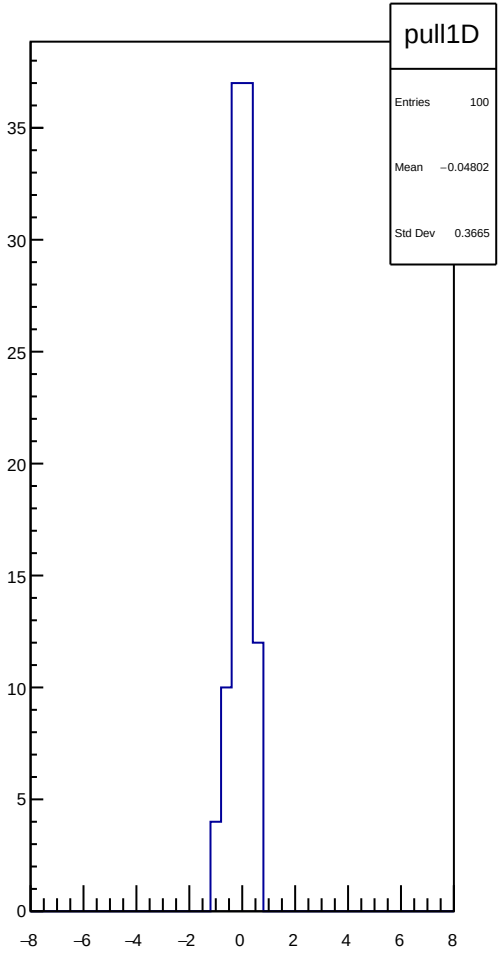

pull1D
Entries 100
Mean −0.03637
Std Dev 1.18

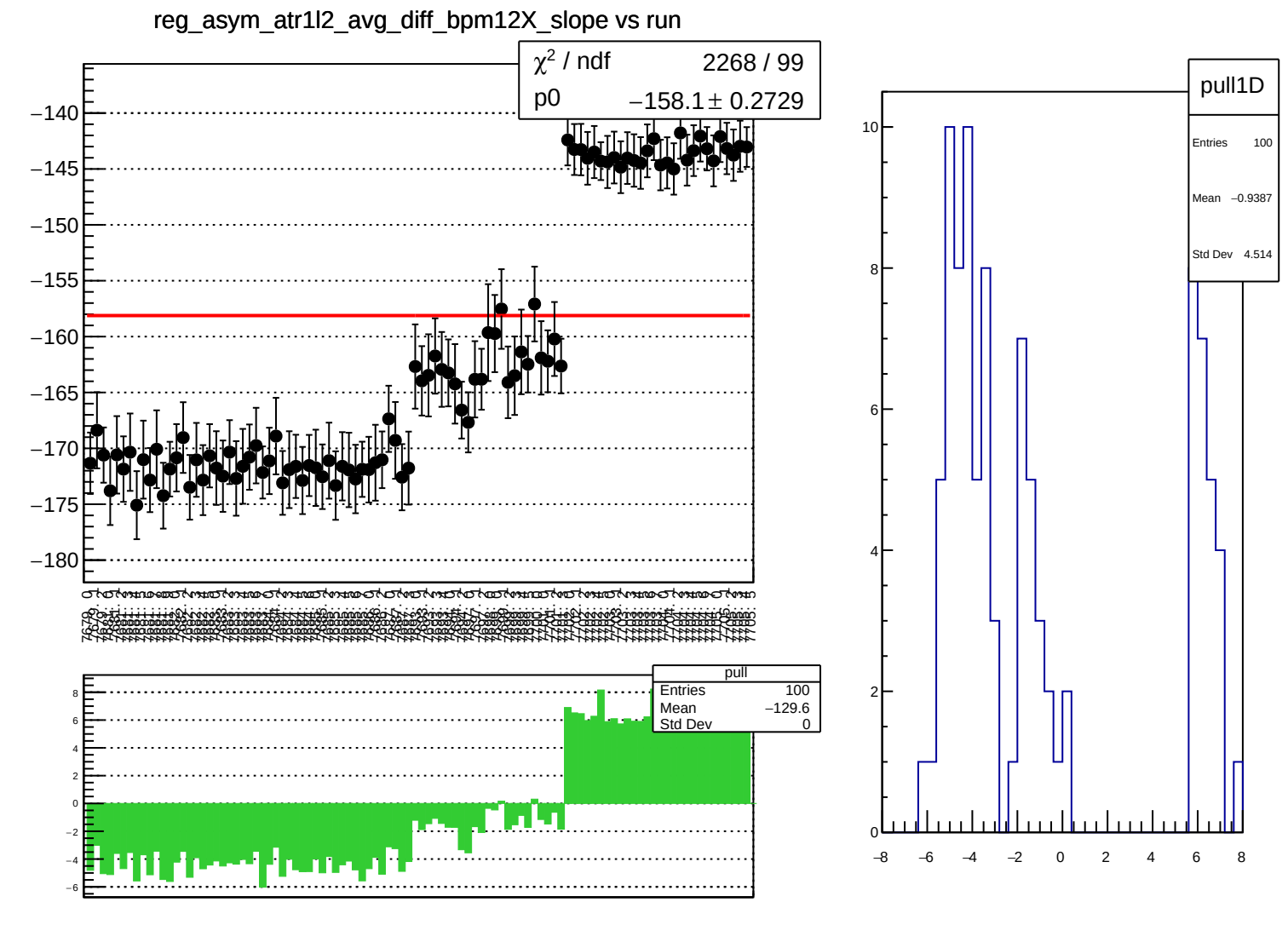

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 352.3 / 99
p0 −370 ± 2.733
0
−100
−200
−300
−400
pull
Entries 100
Mean 120.7
Std Dev 0
4
3
2
1
0
−1
pull1D
Entries 100
Mean 0.6127
Std Dev 1.774
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

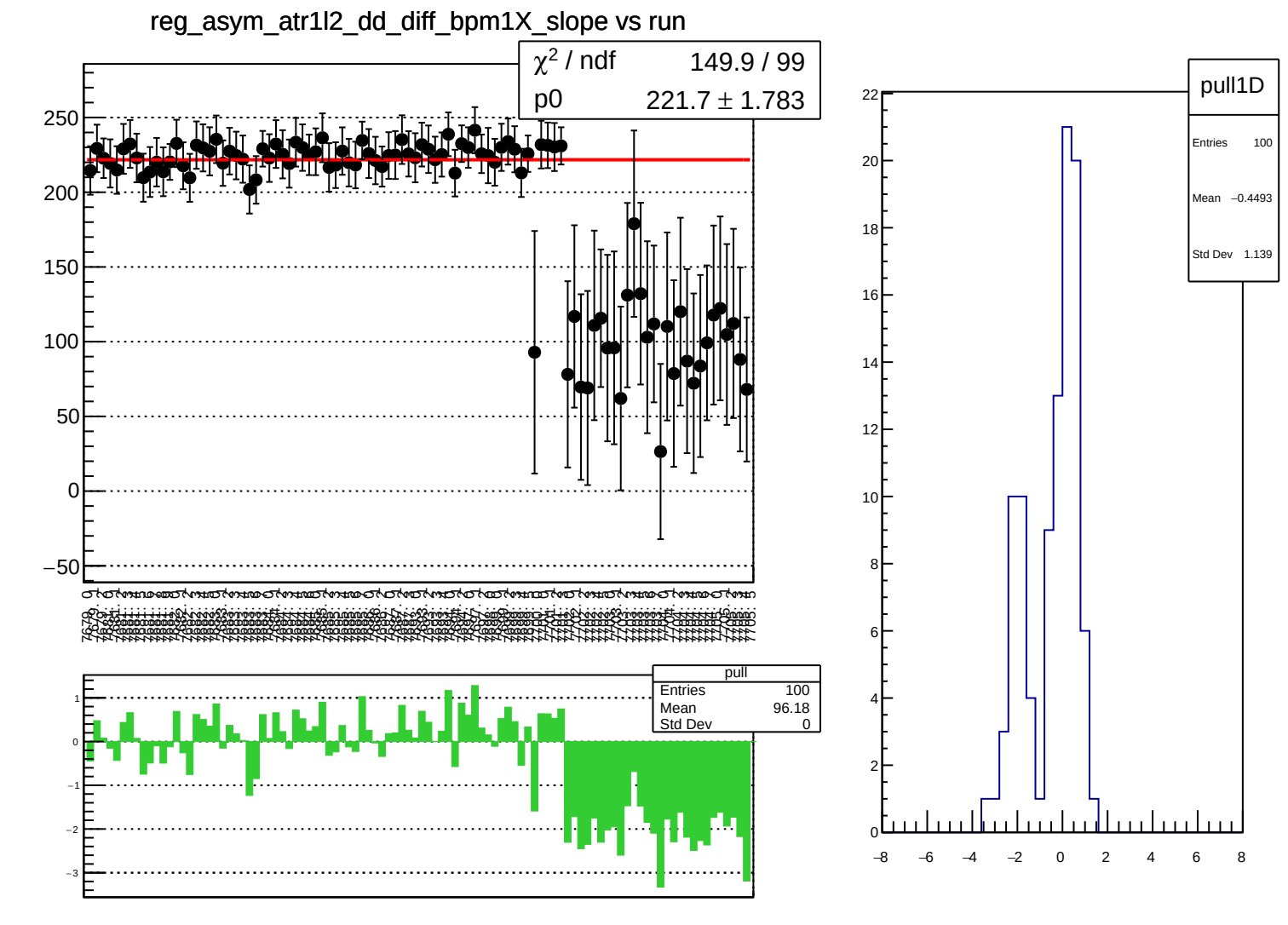

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.52 / 99
p0 31.23 ± 3.807
200
150
100
50
0
−50
−100
pull
Entries 100
Mean 65.34
Std Dev 42.66
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 100
Mean 0.06587
Std Dev 0.3617
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

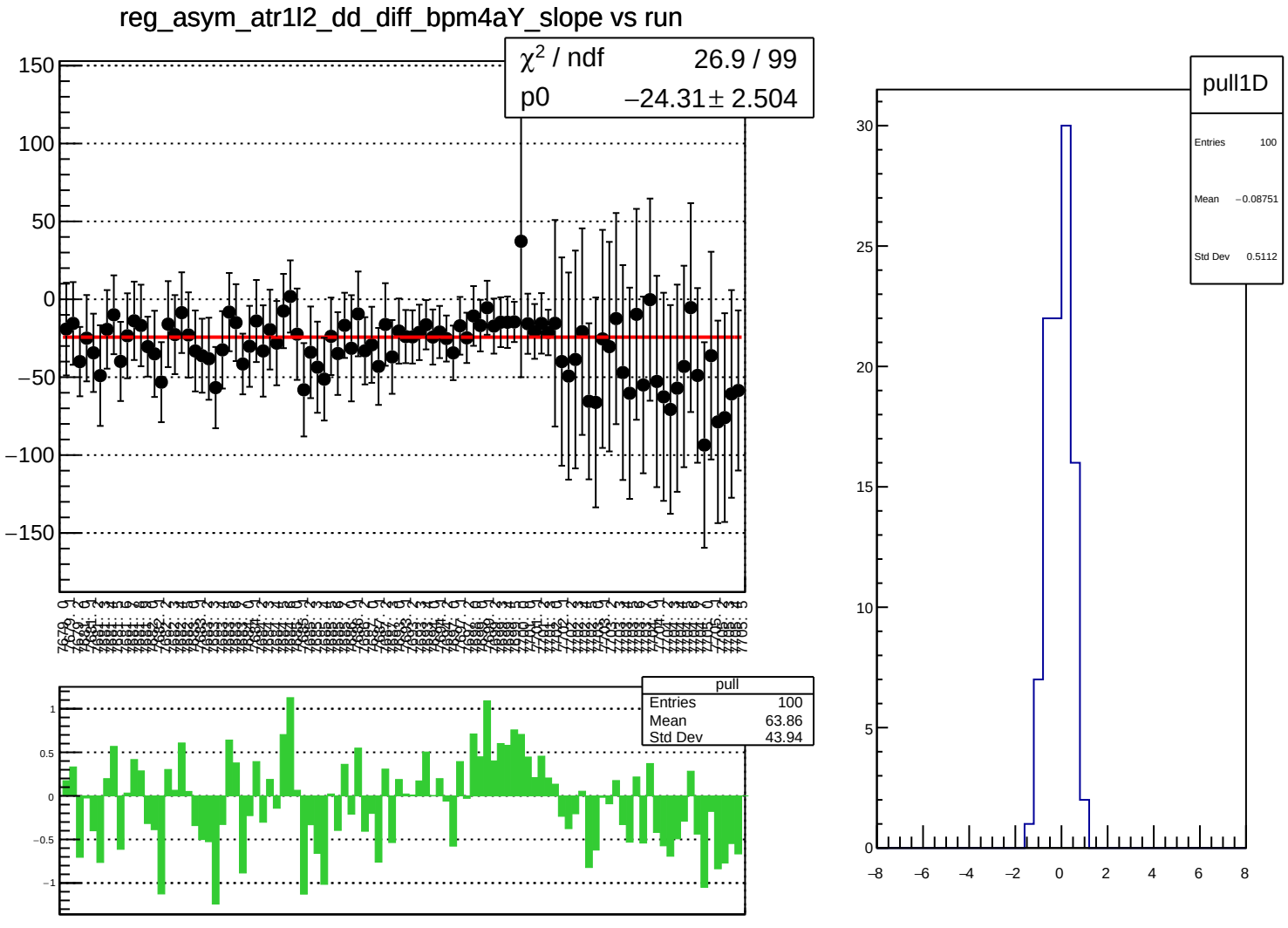

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 371.5 / 99
p0 289.8 ± 2.204
pull
Entries 100
Mean 116.8
Std Dev 0
pull1D
Entries 100
Mean −0.6679
Std Dev 1.808

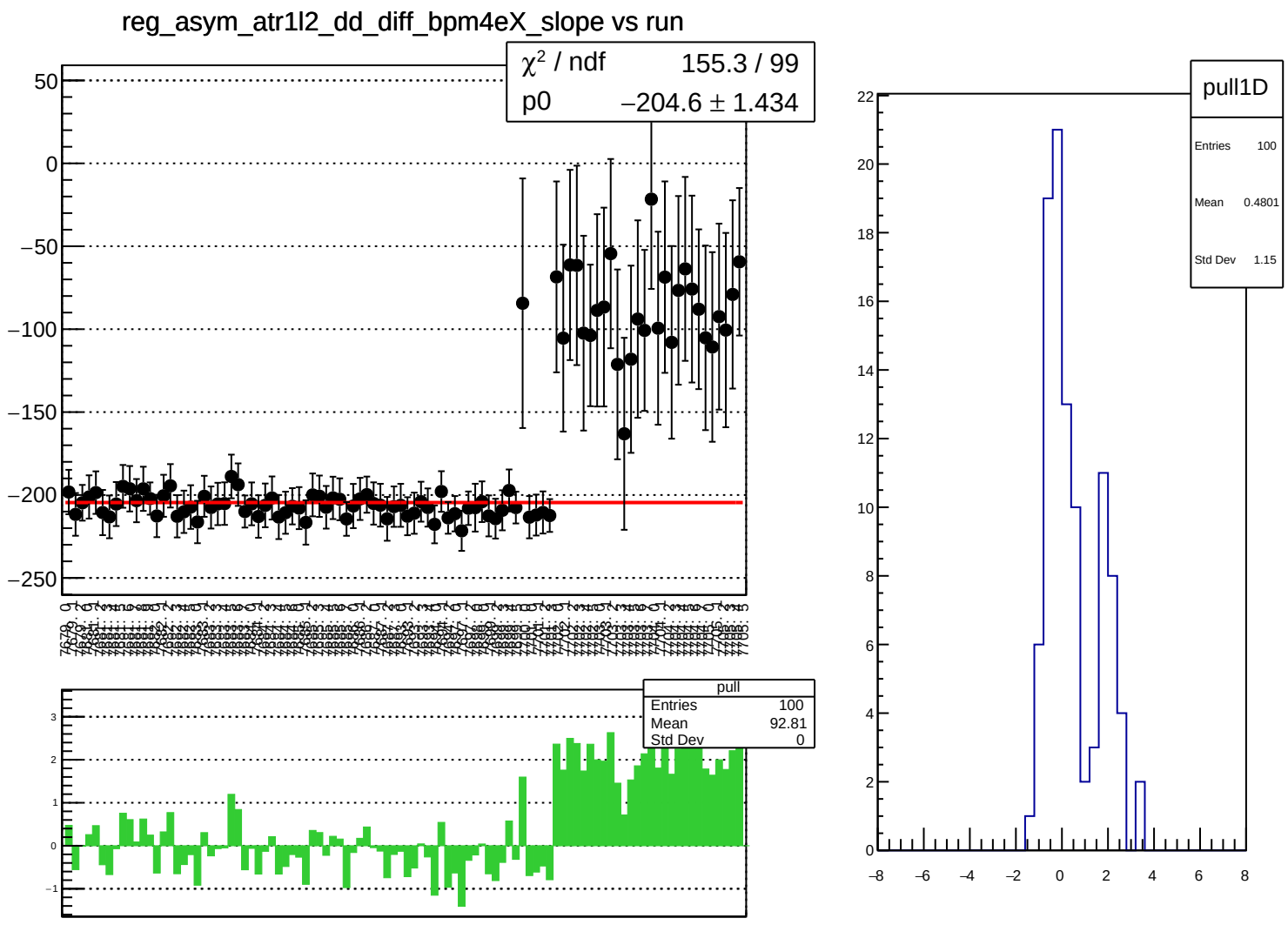

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.67 / 99
p0 34.45 ± 5.627
150
100
50
0
−50
−100
−150
pull
Entries 100
Mean 104.4
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

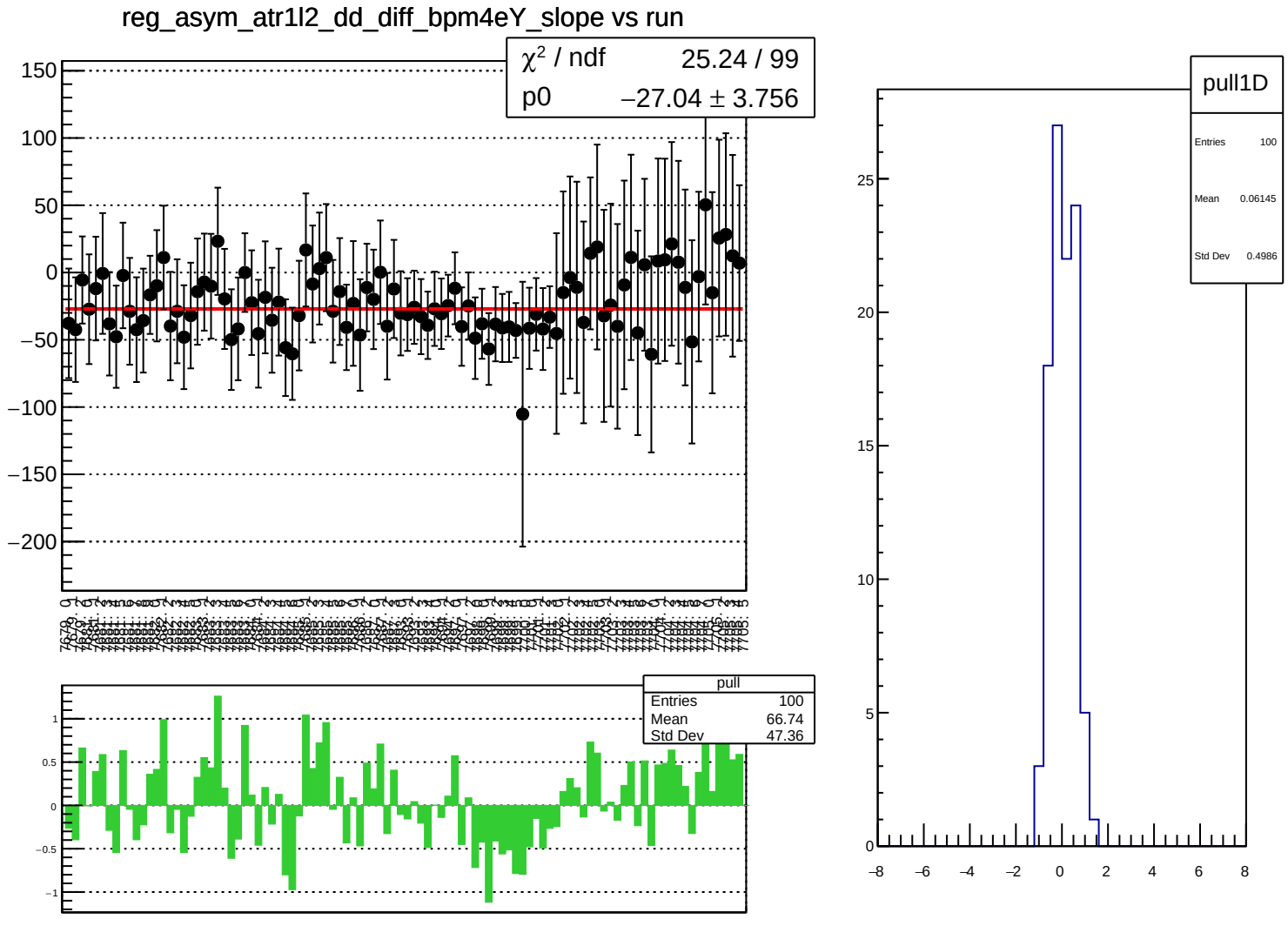

pull1D
Entries 100
Mean −0.04802
Std Dev 0.3665
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

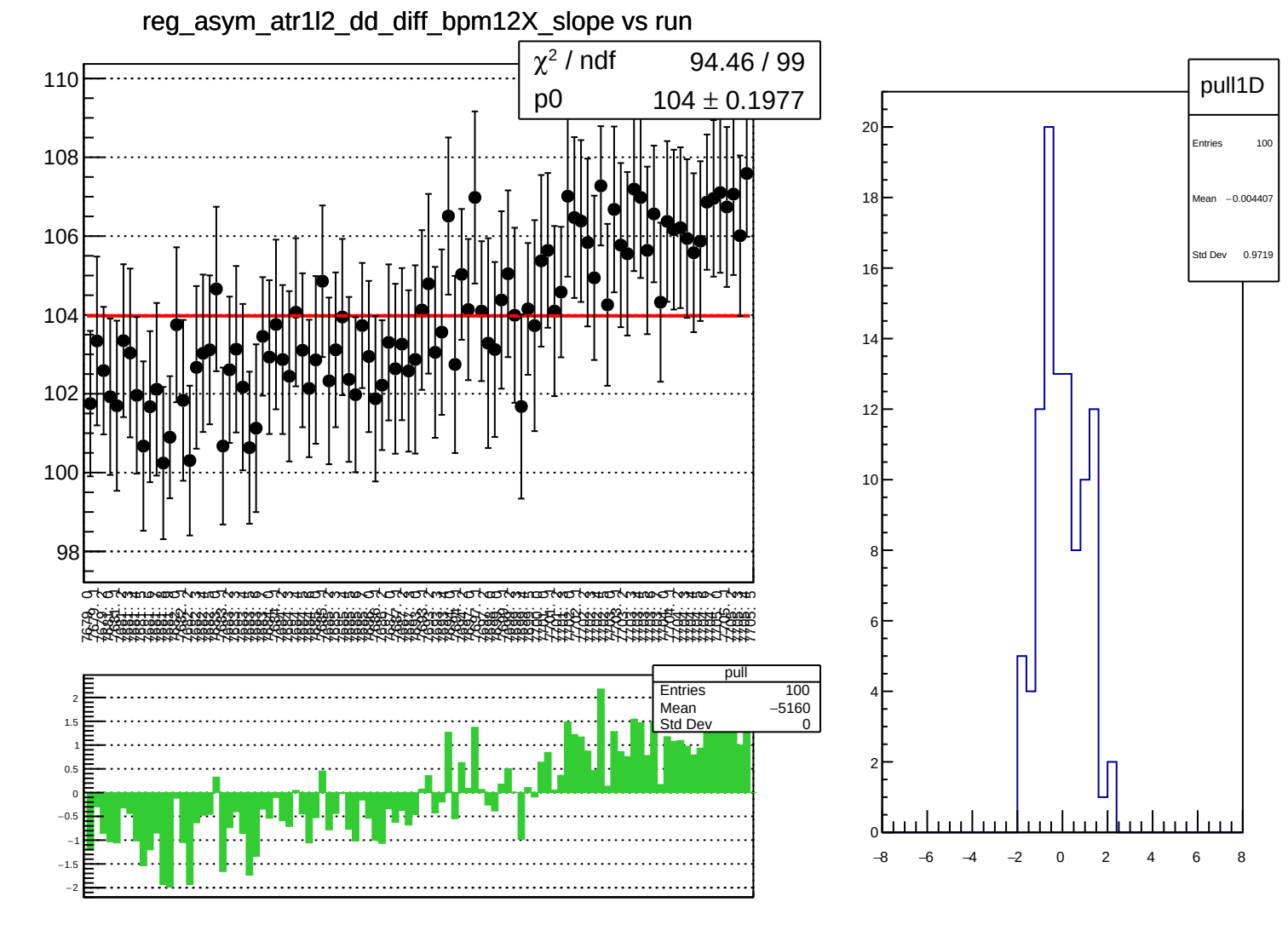

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 2268 / 99
p0 −158.1 ± 0.2729
−140
−145
−150
−155
−160
−165
−170
−175
−180
pull
Entries 100
Mean −129.6
Std Dev 0
8
6
4
2
0
−2
−4
−6
pull1D
Entries 100
Mean −0.9387
Std Dev 4.514
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

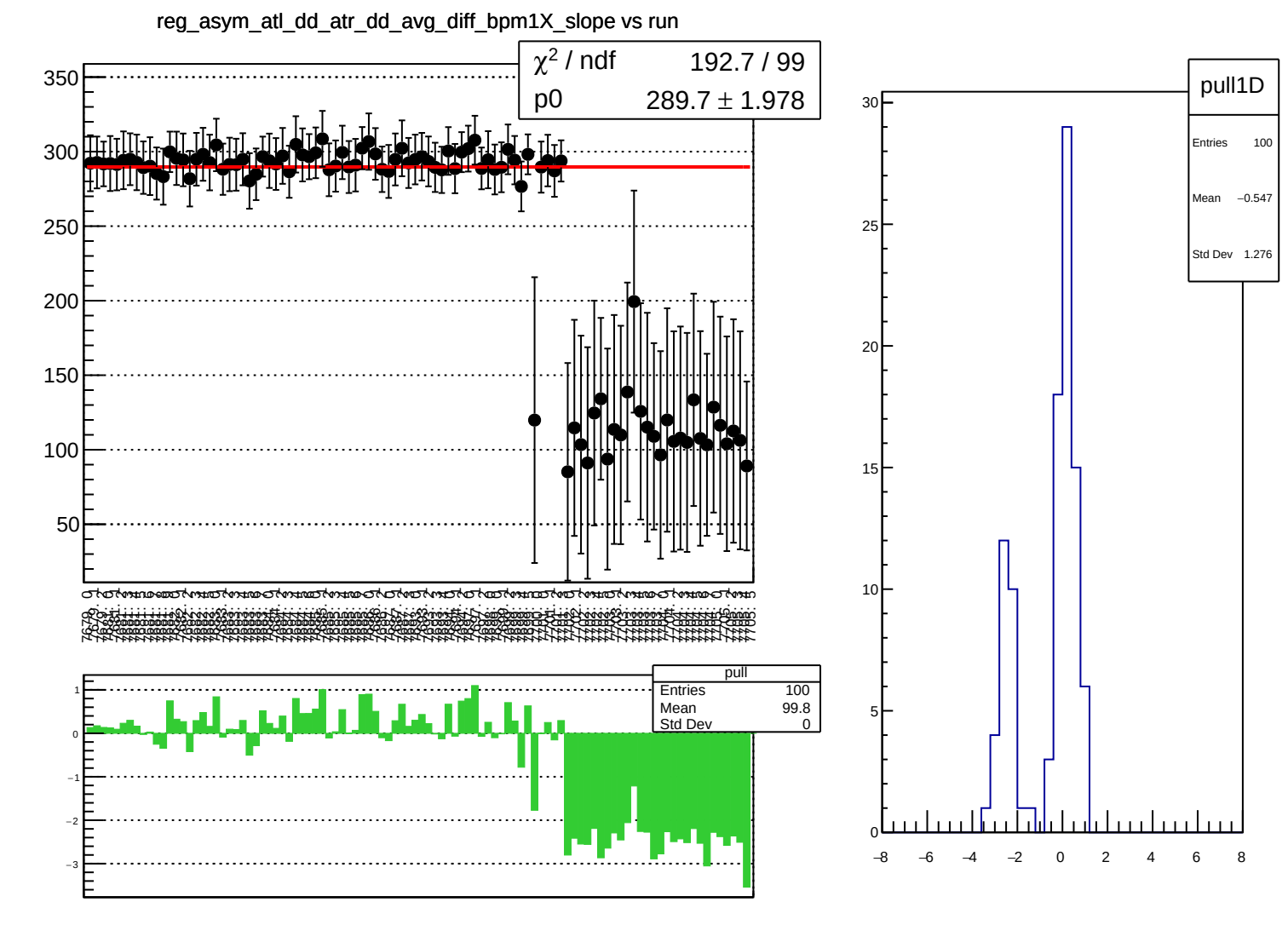

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 149.9 / 99
p0 221.7 ± 1.783
250
200
150
100
50
0
−50
pull
Entries 100
Mean 96.18
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 100
Mean −0.4493
Std Dev 1.139
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

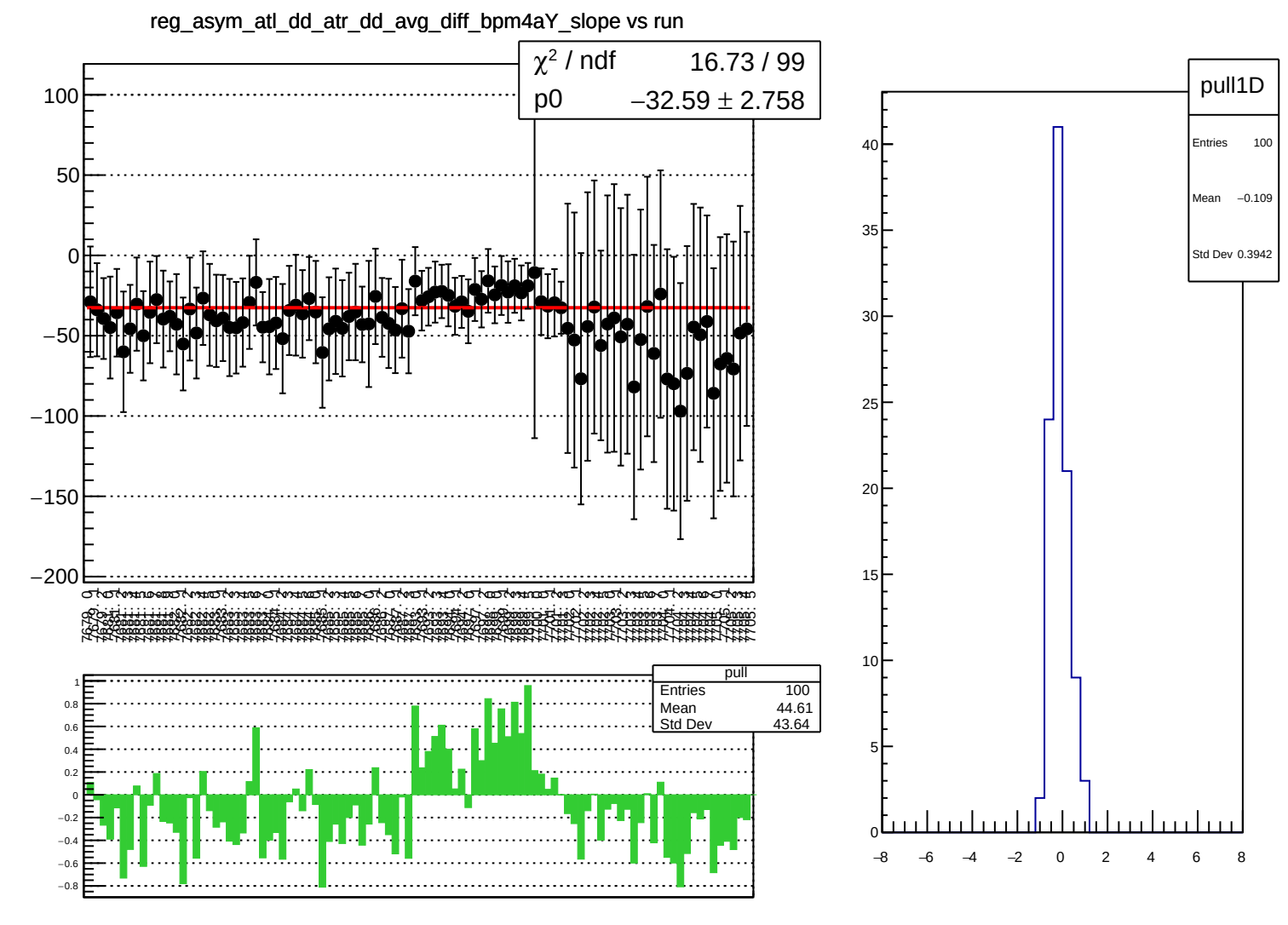

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.9 / 99
p0 −24.31 ± 2.504
150
100
50
0
−50
−100
−150
pull
Entries 100
Mean 63.86
Std Dev 43.94
1
0.5
0
−0.5
−1
pull1D
Entries 100
Mean −0.08751
Std Dev 0.5112
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

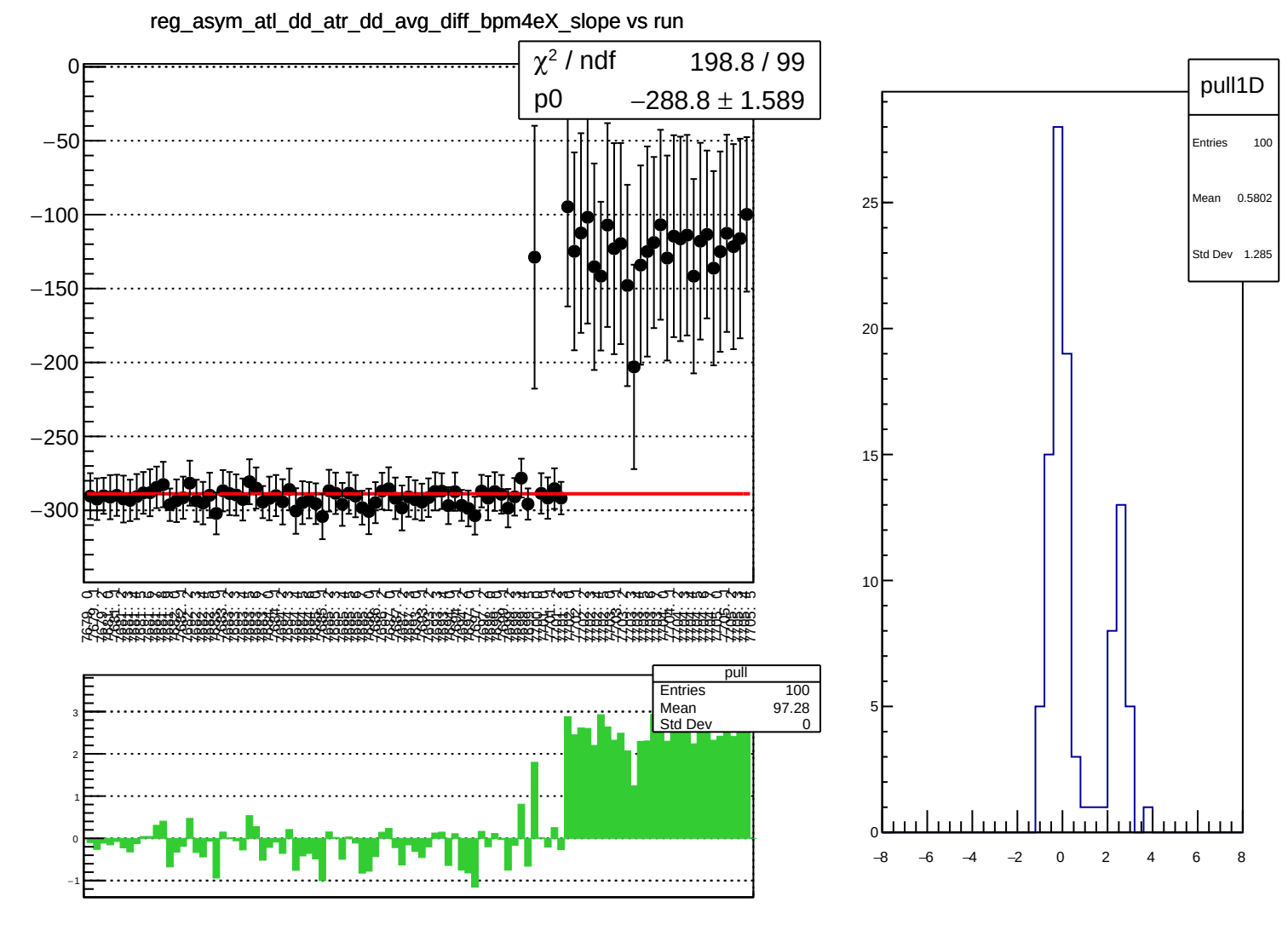

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 155.3 / 99
p0 −204.6 ± 1.434
pull
Entries 100
Mean 92.81
Std Dev 0
pull1D
Entries 100
Mean 0.4801
Std Dev 1.15

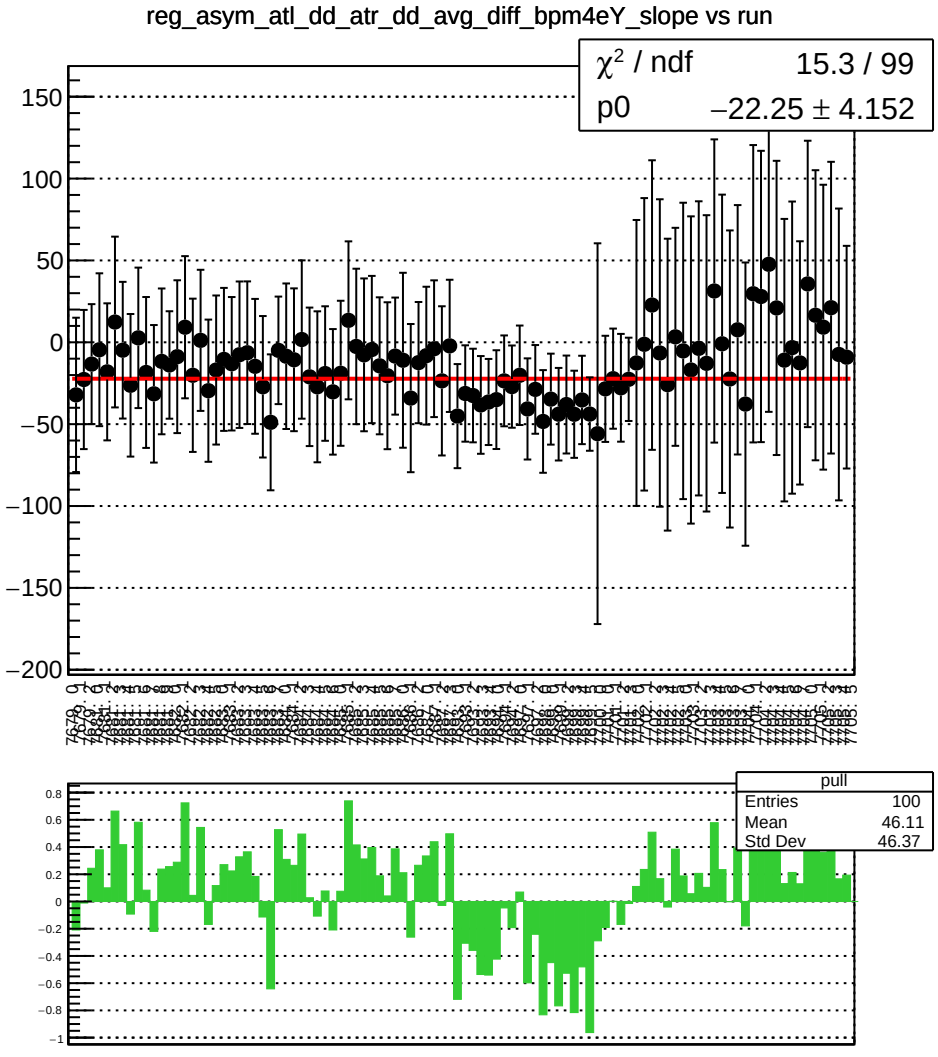

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 25.24 / 99
p0 −27.04 ± 3.756
150
100
50
0
−50
−100
−150
−200
pull
Entries 100
Mean 66.74
Std Dev 47.36
1
0.5
0
−0.5
−1
pull1D
Entries 100
Mean 0.06145
Std Dev 0.4986
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

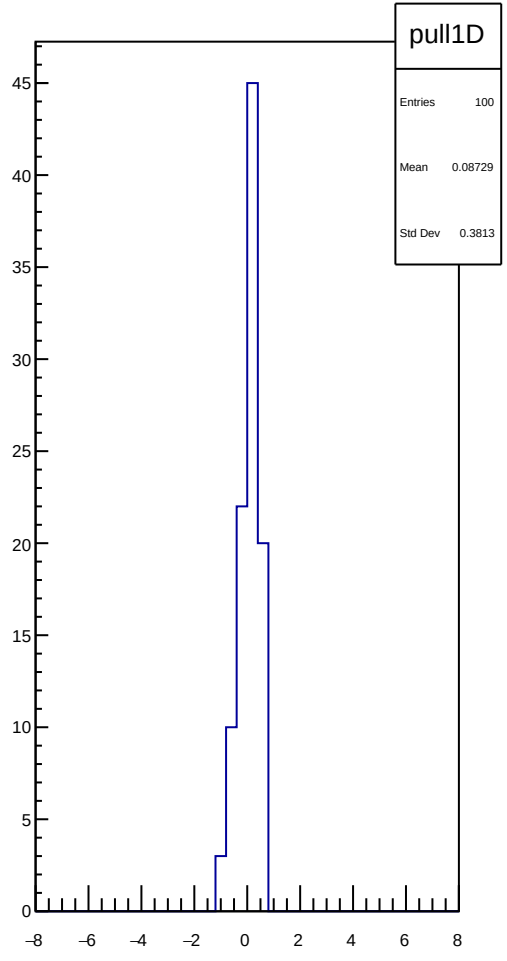

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 94.46 / 99
p0 104 ± 0.1977
110
108
106
104
102
100
98
pull
Entries 100
Mean −5160
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 100
Mean −0.004407
Std Dev 0.9719
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

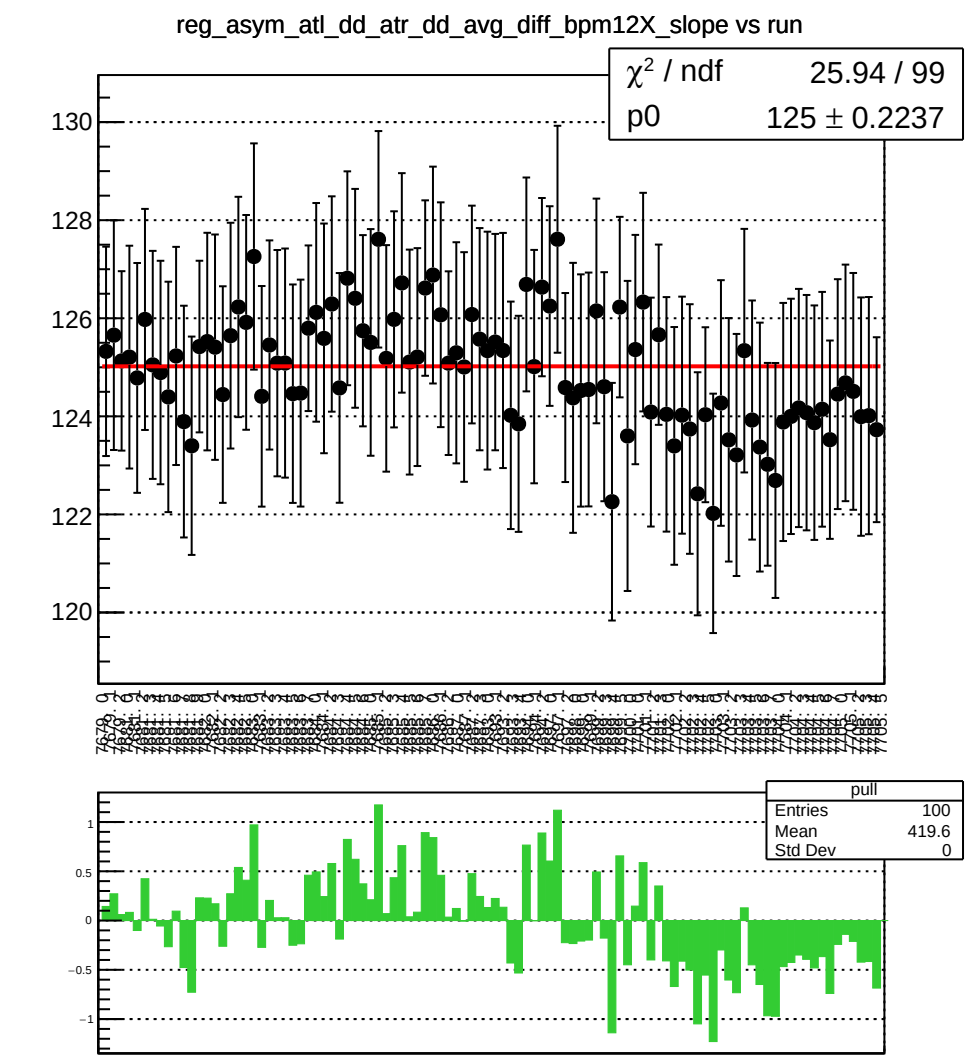

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 192.7 / 99
p0 289.7 ± 1.978
350
300
250
200
150
100
50
pull
Entries 100
Mean 99.8
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 100
Mean −0.547
Std Dev 1.276
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

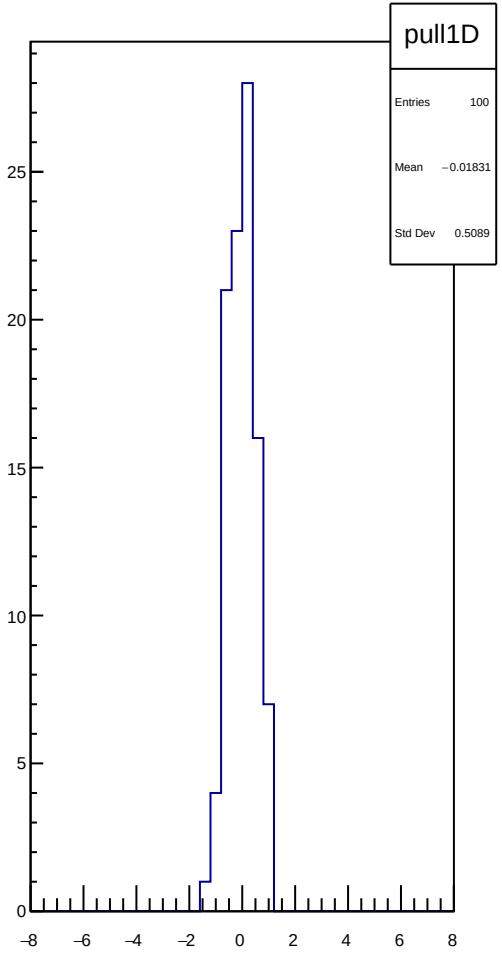

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.73 / 99
p0 −32.59 ± 2.758
100
50
0
−50
−100
−150
−200
pull
Entries 100
Mean 44.61
Std Dev 43.64
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 100
Mean −0.109
Std Dev 0.3942
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

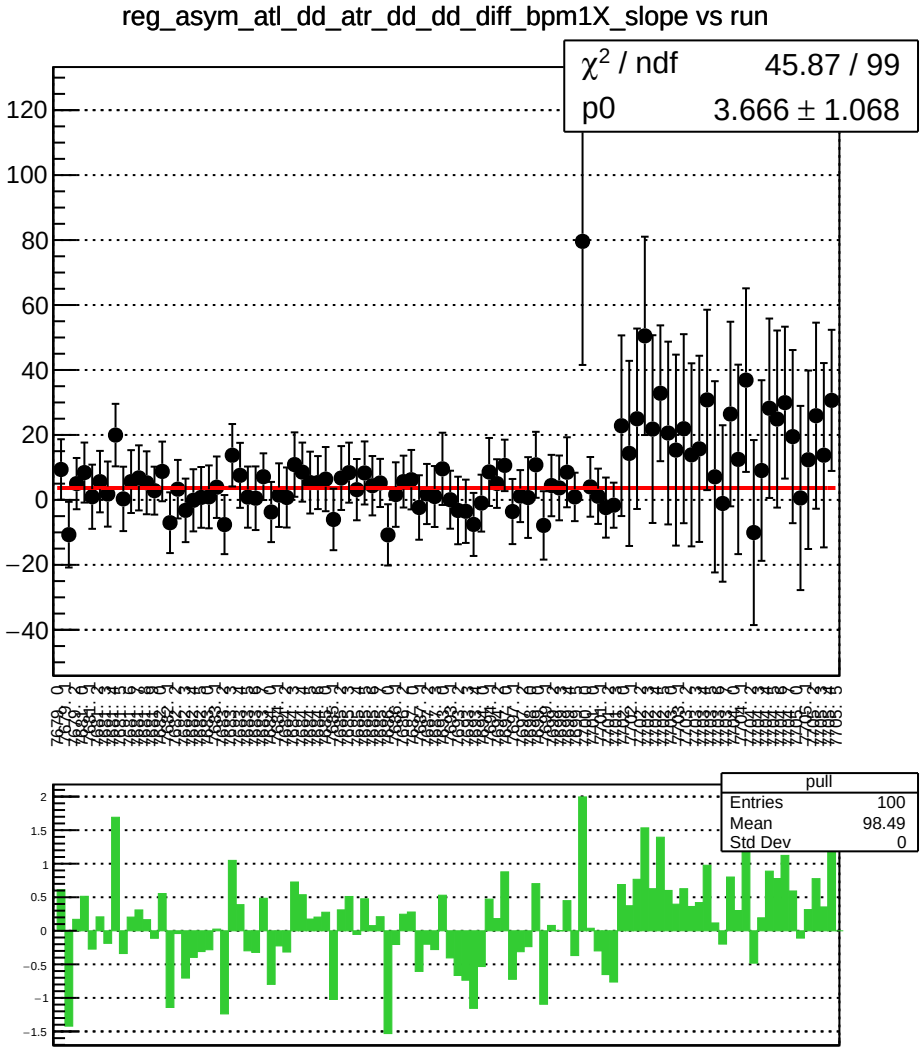

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 198.8 / 99
p0 −288.8 ± 1.589
pull
Entries 100
Mean 97.28
Std Dev 0
pull1D
Entries 100
Mean 0.5802
Std Dev 1.285

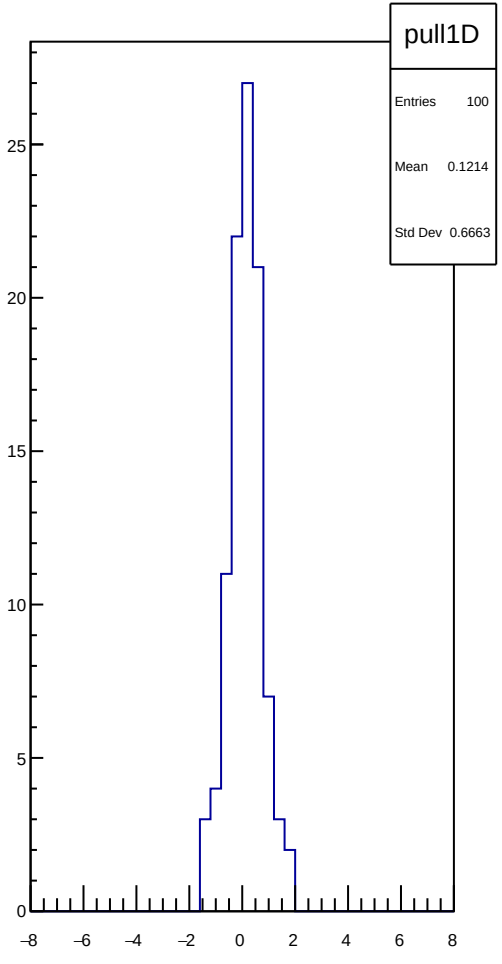

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.3 / 99
p0 −22.25 ± 4.152
150
100
50
0
−50
−100
−150
−200
pull
Entries 100
Mean 46.11
Std Dev 46.37
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

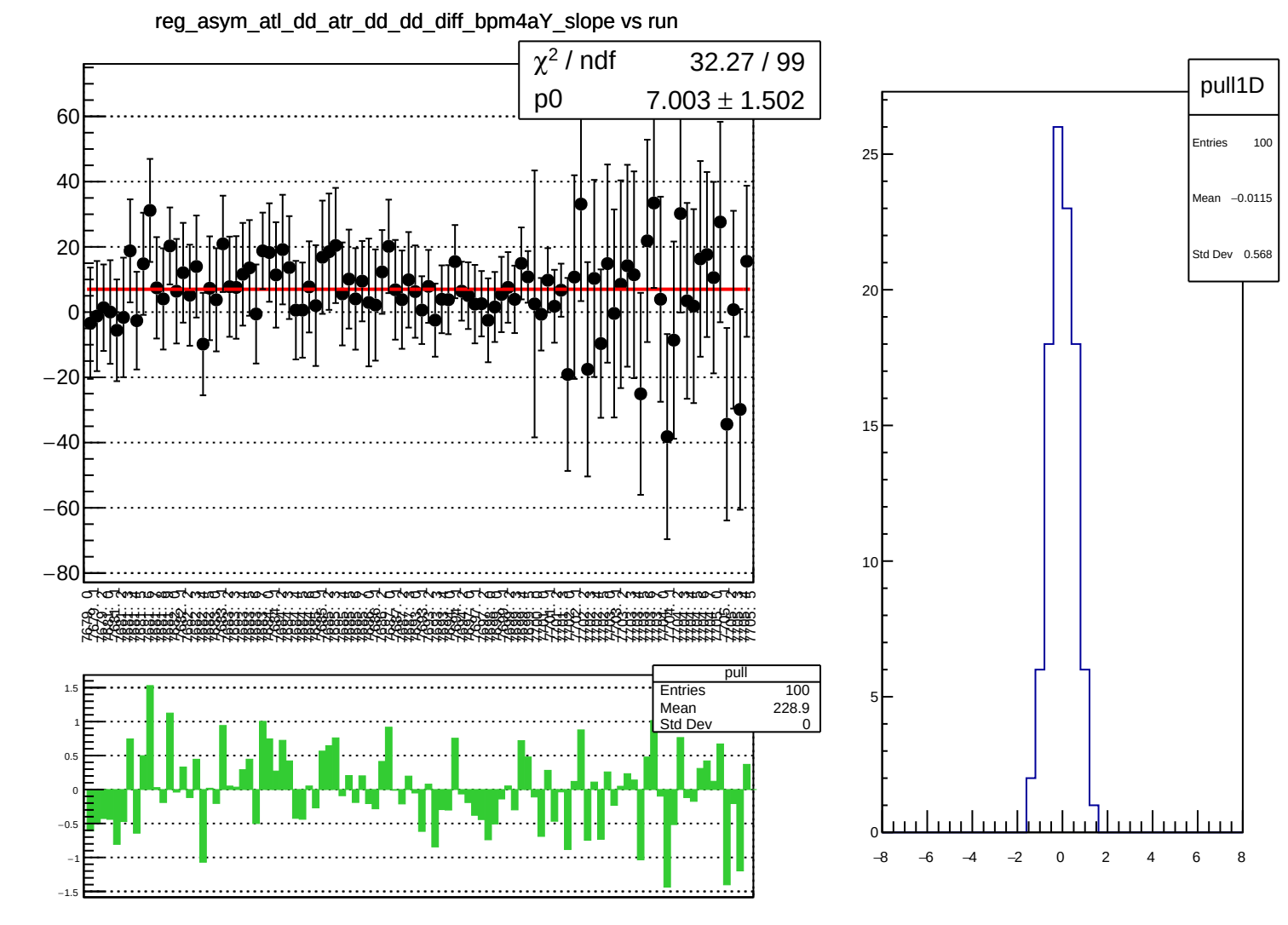

pull1D
Entries 100
Mean 0.08729
Std Dev 0.3813
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

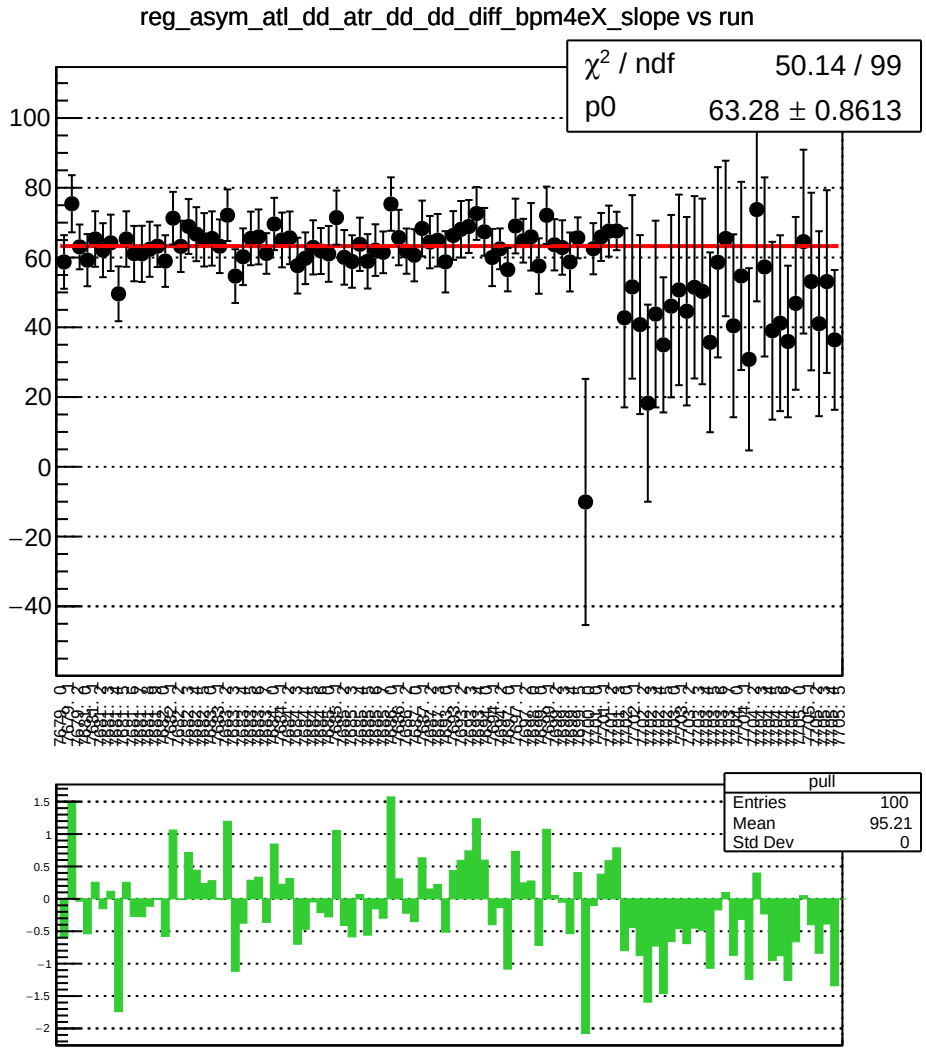

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 25.94 / 99
p0 125 ± 0.2237
130
128
126
124
122
120
pull
Entries 100
Mean 419.6
Std Dev 0
1
0.5
0
−0.5
−1

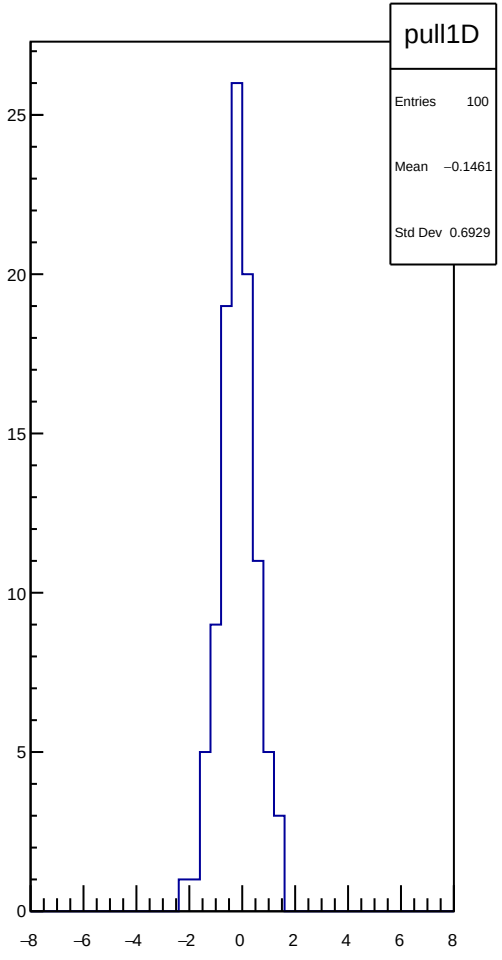

pull1D
Entries 100
Mean −0.01831
Std Dev 0.5089
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

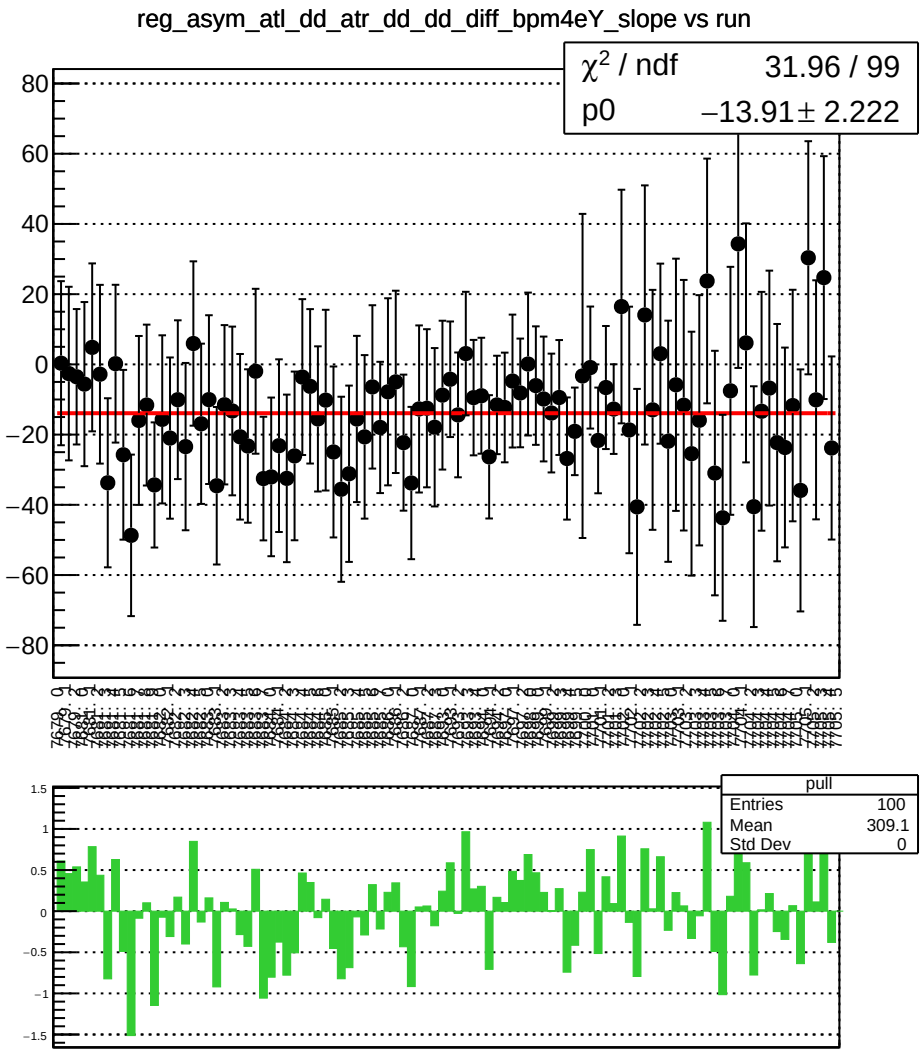

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 45.87 / 99
p0 3.666 ± 1.068
pull
Entries 100
Mean 98.49
Std Dev 0

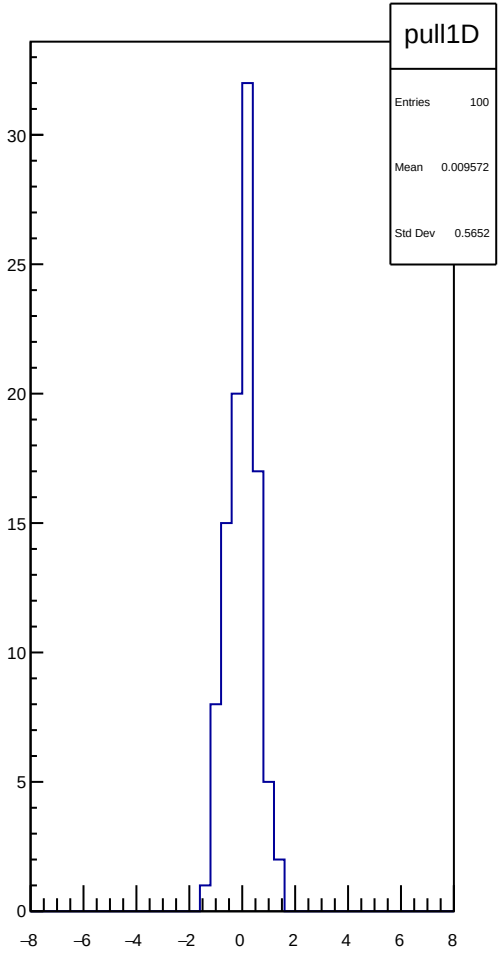

pull1D
Entries 100
Mean 0.1214
Std Dev 0.6663

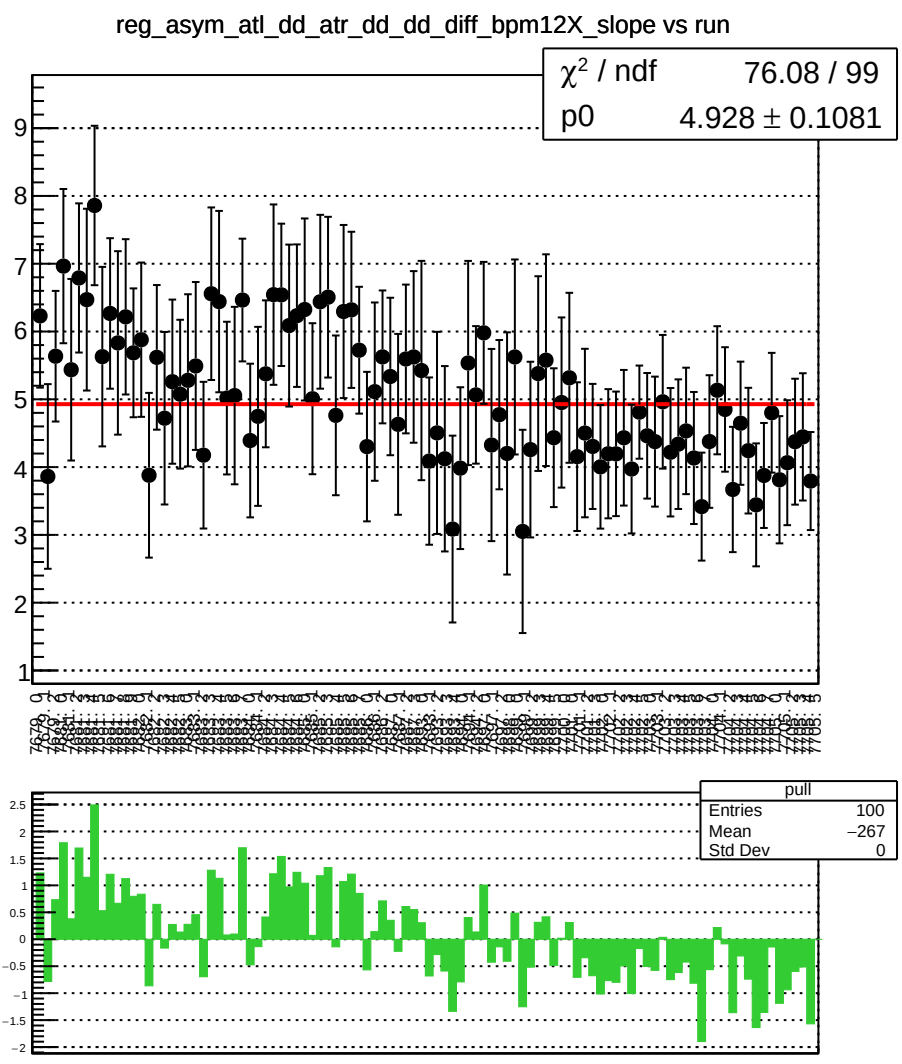

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 32.27 / 99
p0 7.003 ± 1.502
pull
Entries 100
Mean 228.9
Std Dev 0
pull1D
Entries 100
Mean −0.0115
Std Dev 0.568

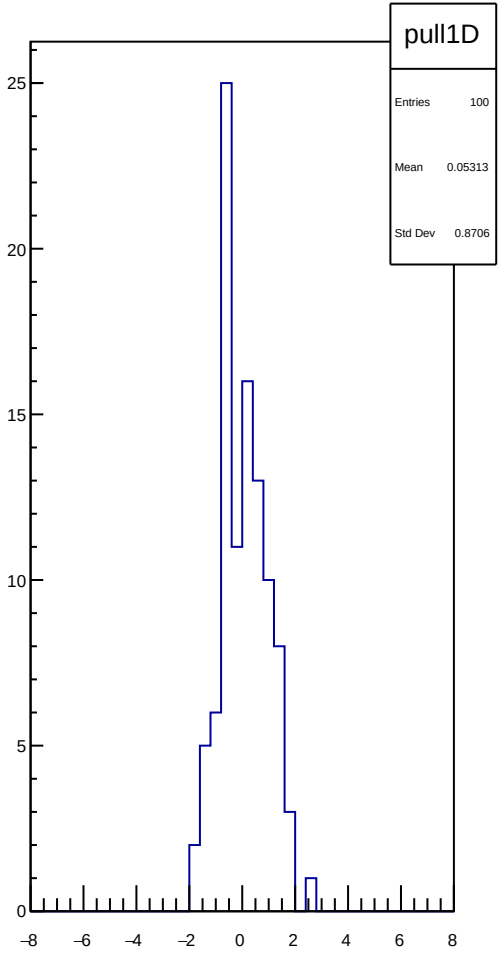

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 50.14 / 99
p0 63.28 ± 0.8613
pull
Entries 100
Mean 95.21
Std Dev 0

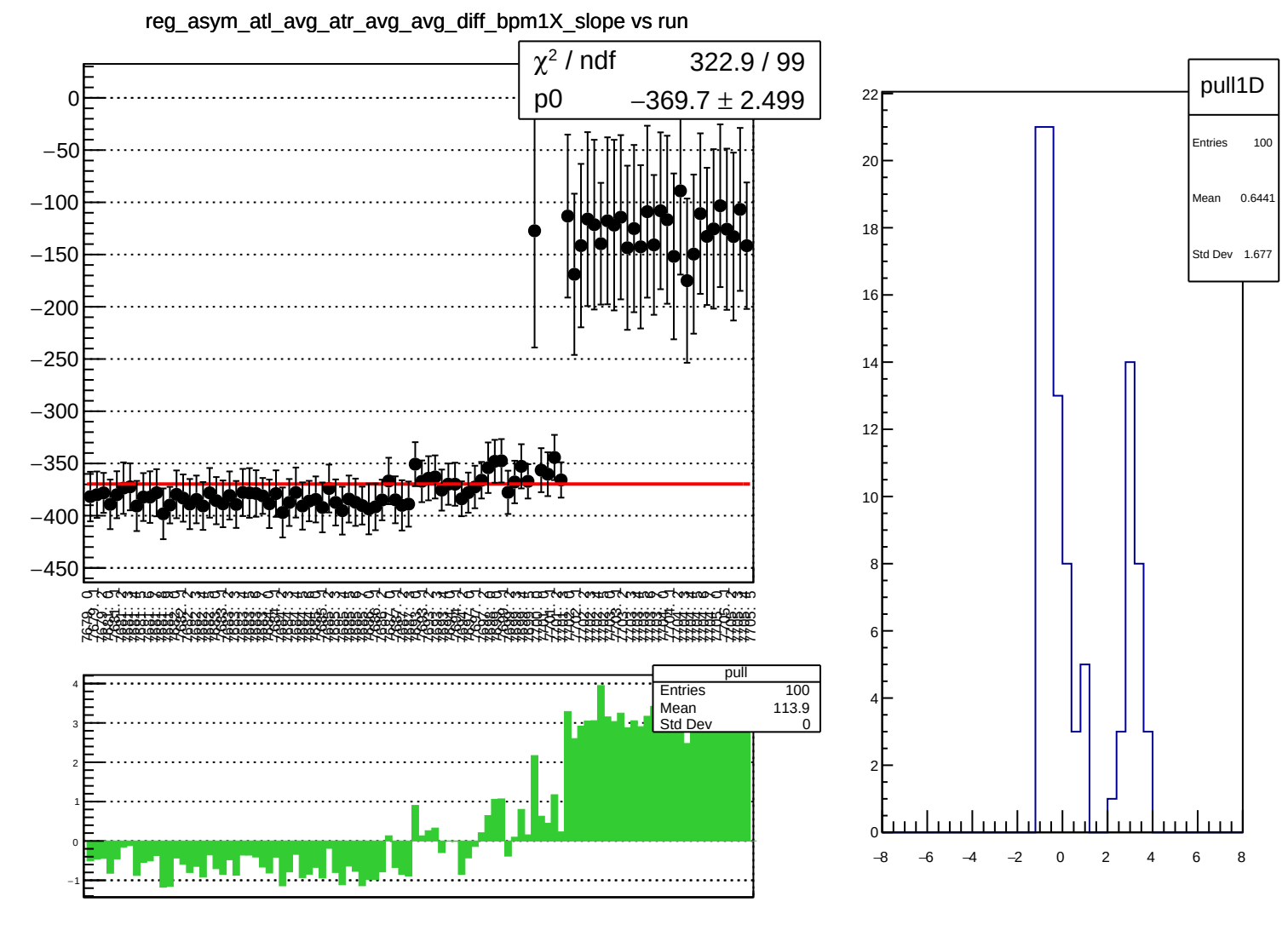

pull1D
Entries 100
Mean −0.1461
Std Dev 0.6929

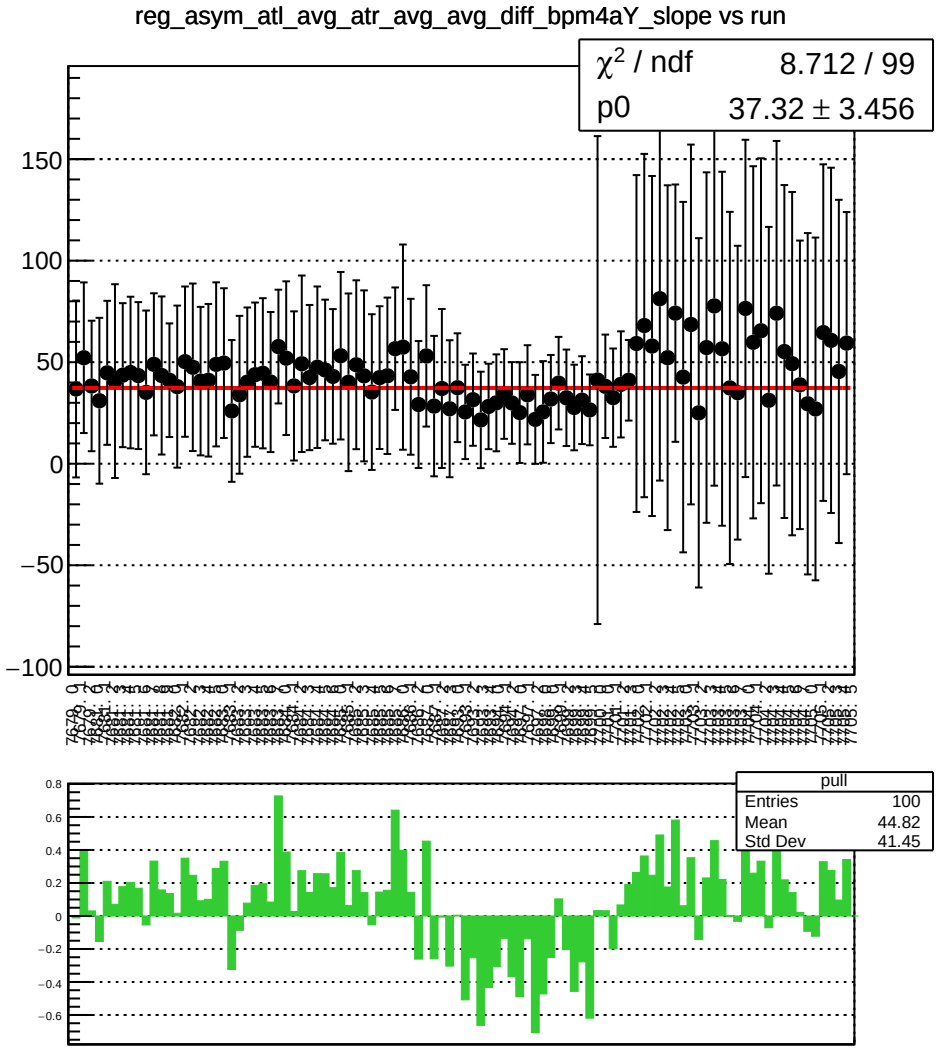

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 31.96 / 99
p0 −13.91± 2.222
pull
Entries 100
Mean 309.1
Std Dev 0

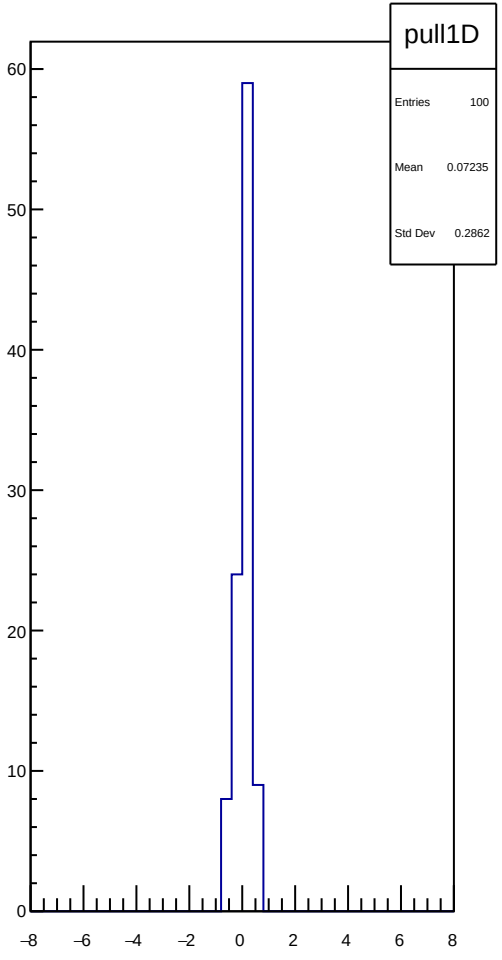

pull1D
Entries 100
Mean 0.009572
Std Dev 0.5652

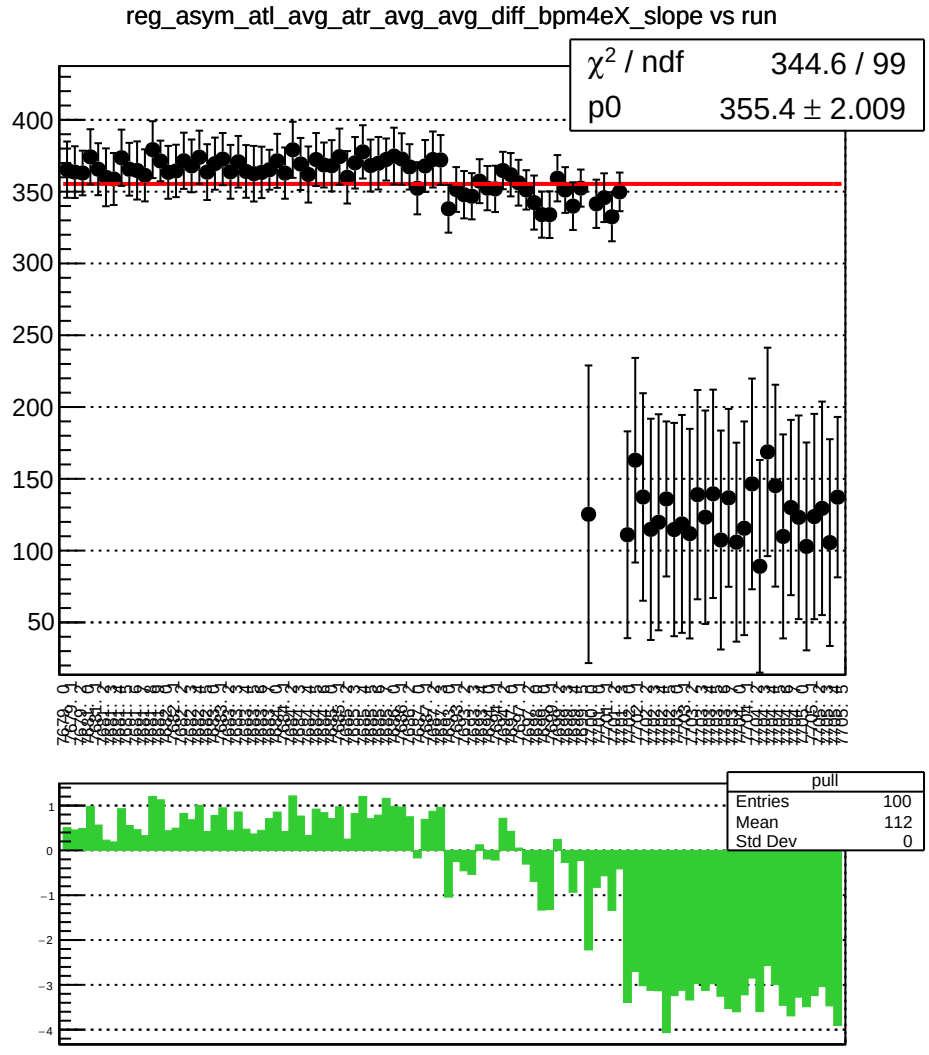

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 76.08 / 99
p0 4.928 ± 0.1081
pull
Entries 100
Mean −267
Std Dev 0

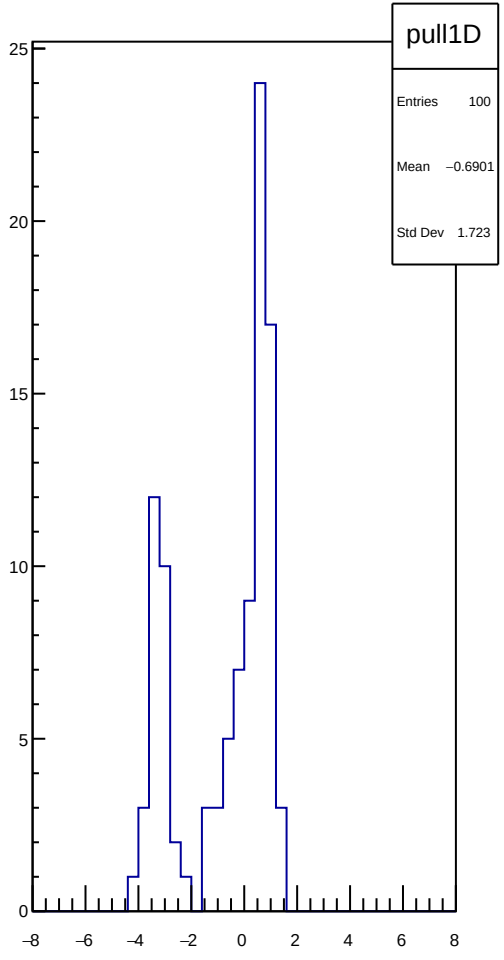

pull1D
Entries 100
Mean 0.05313
Std Dev 0.8706

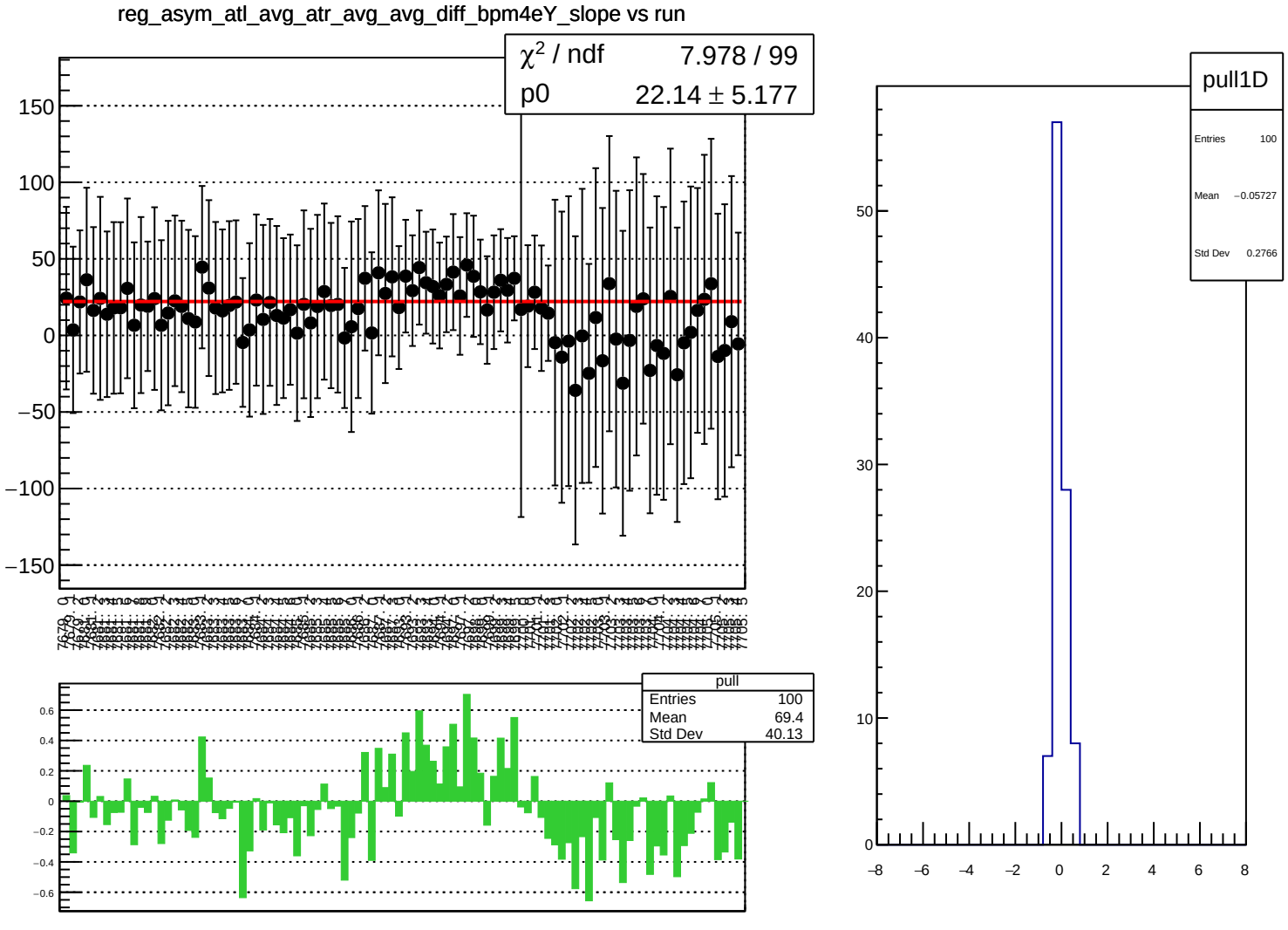

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 322.9 / 99
p0 −369.7 ± 2.499
pull
Entries 100
Mean 113.9
Std Dev 0
pull1D
Entries 100
Mean 0.6441
Std Dev 1.677

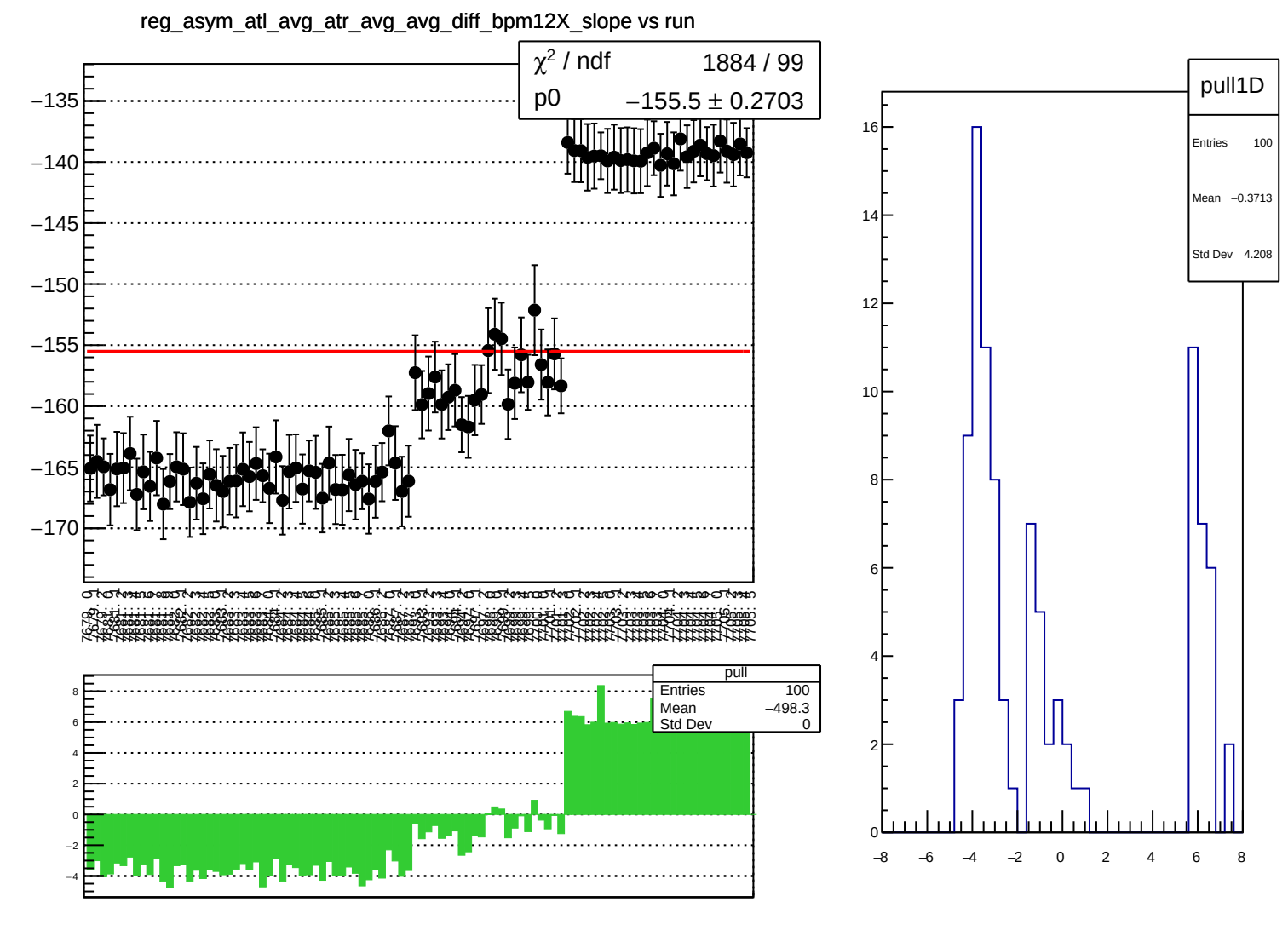

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.712 / 99
p0 37.32 ± 3.456
150
100
50
0
−50
−100
pull
Entries 100
Mean 44.82
Std Dev 41.45
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

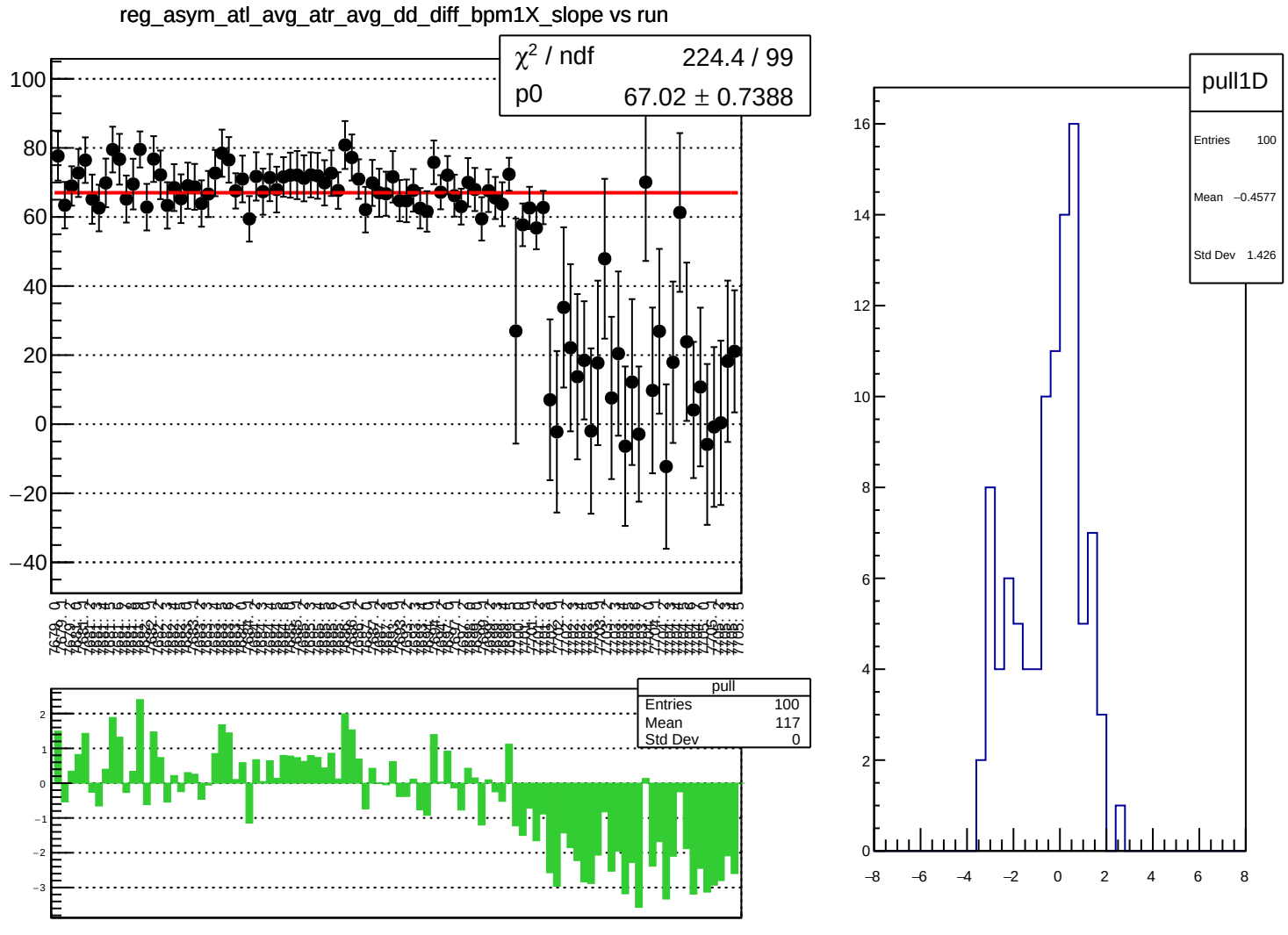

pull1D
Entries 100
Mean 0.07235
Std Dev 0.2862
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

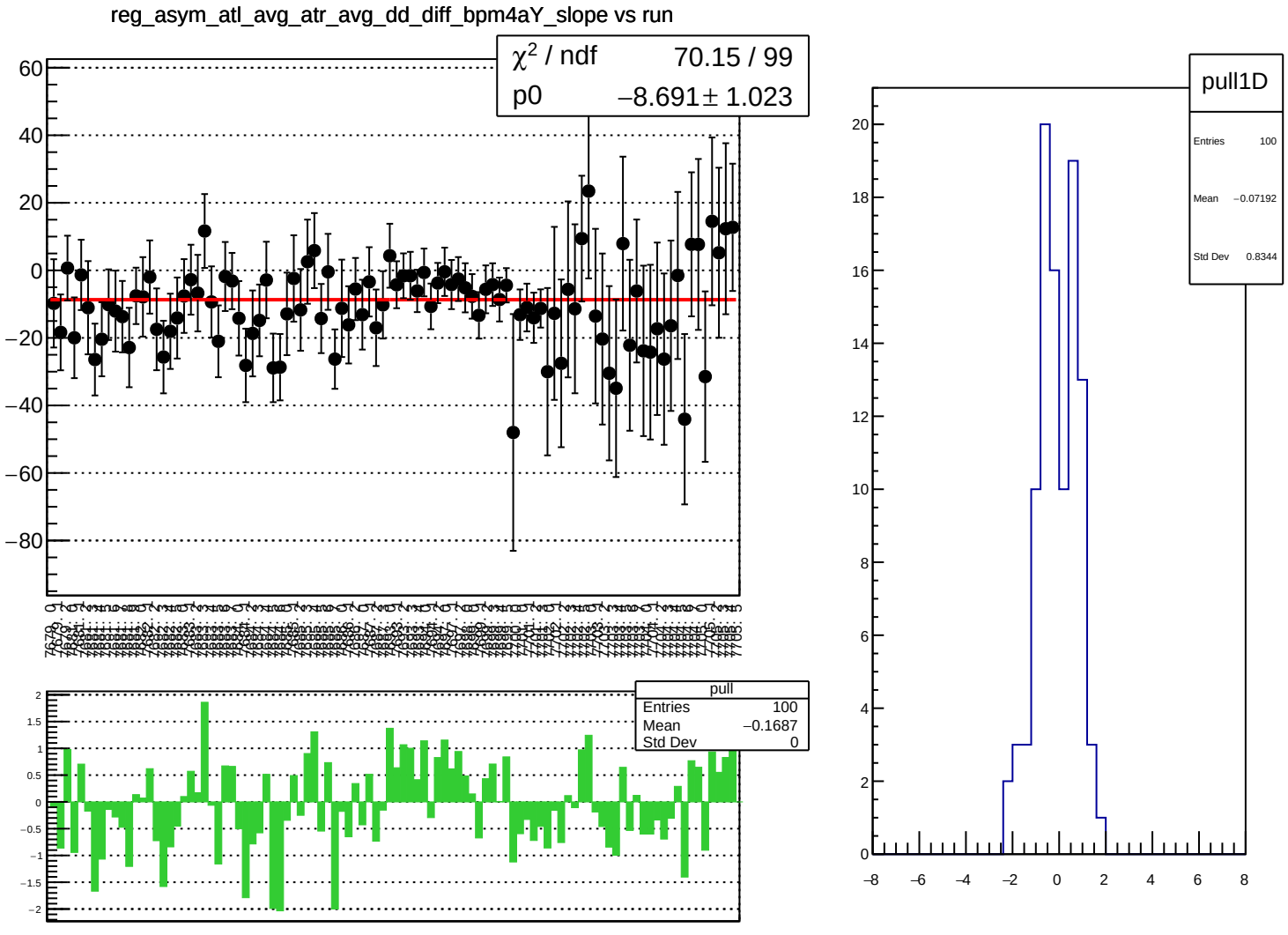

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 344.6 / 99
p0 355.4 ± 2.009
400
350
300
250
200
150
100
50
pull
Entries 100
Mean 112
Std Dev 0
1
0
−1
−2
−3
−4

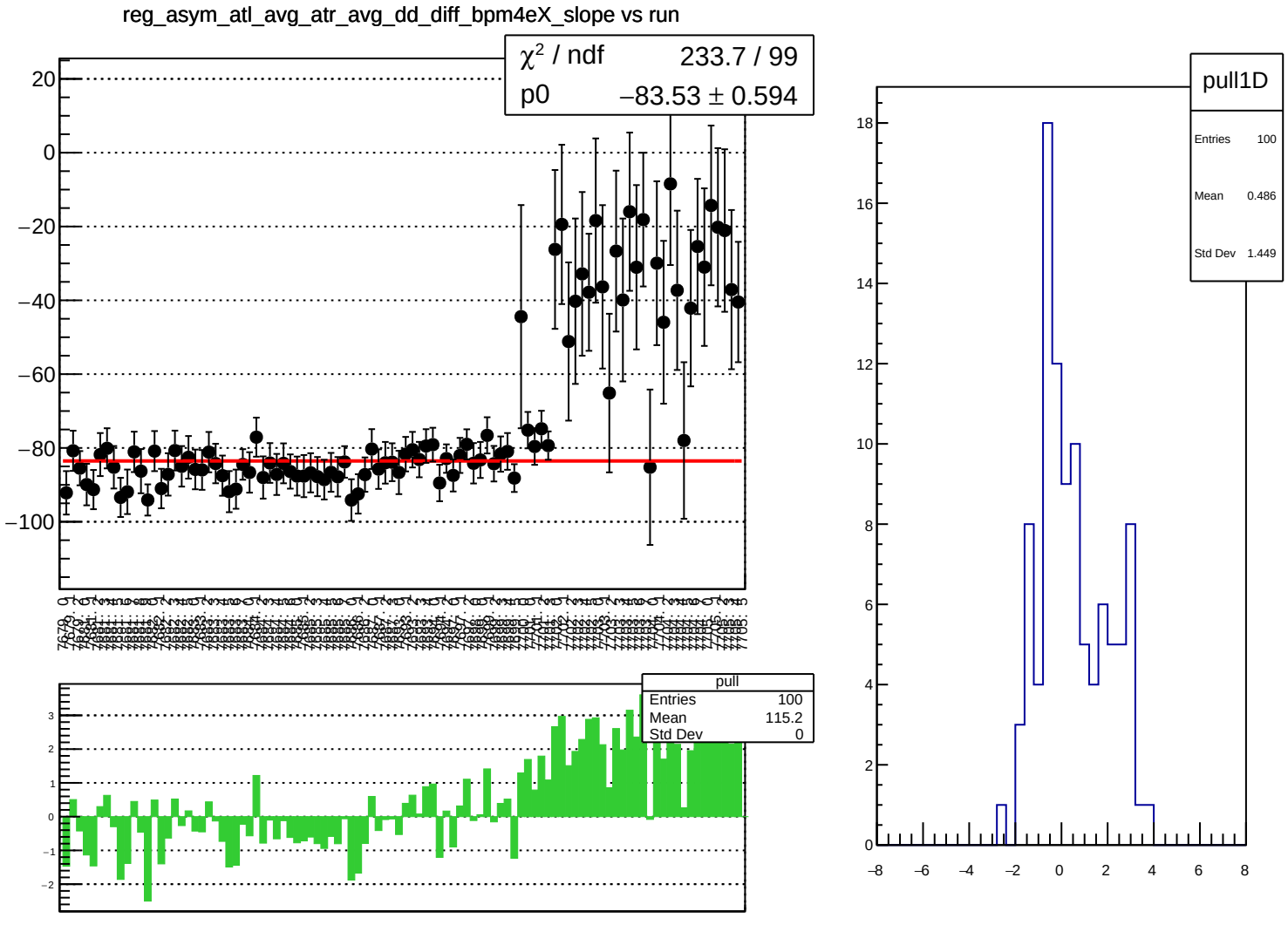

pull1D
Entries 100
Mean −0.6901
Std Dev 1.723
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

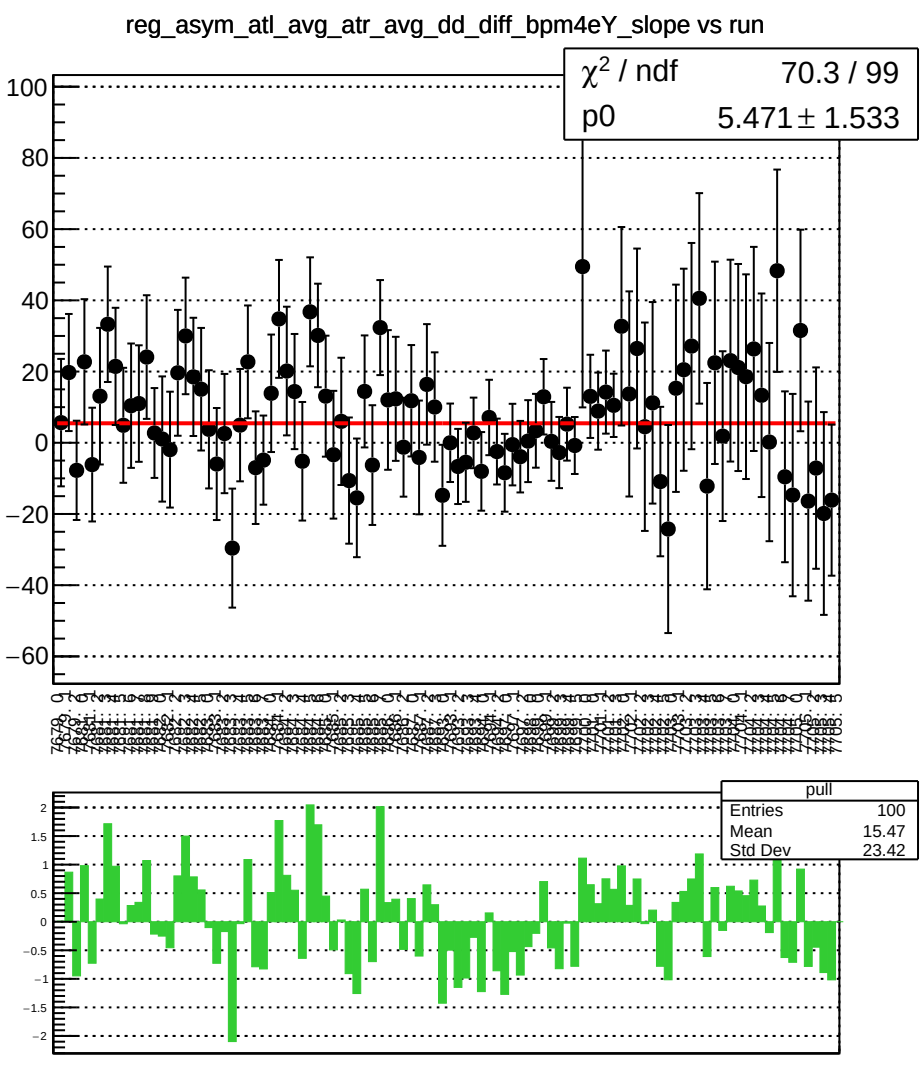

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.978 / 99
p0 22.14 ± 5.177
150
100
50
0
−50
−100
−150
pull
Entries 100
Mean 69.4
Std Dev 40.13
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 100
Mean −0.05727
Std Dev 0.2766
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

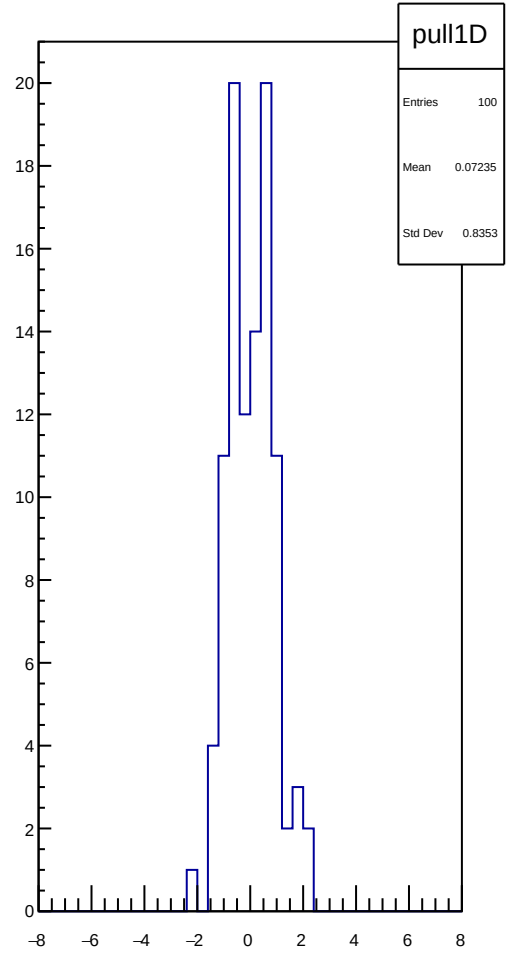

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 1884 / 99
p0 −155.5 ± 0.2703
−135
−140
−145
−150
−155
−160
−165
−170
pull
Entries 100
Mean −498.3
Std Dev 0
8
6
4
2
0
−2
−4
pull1D
Entries 100
Mean −0.3713
Std Dev 4.208
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

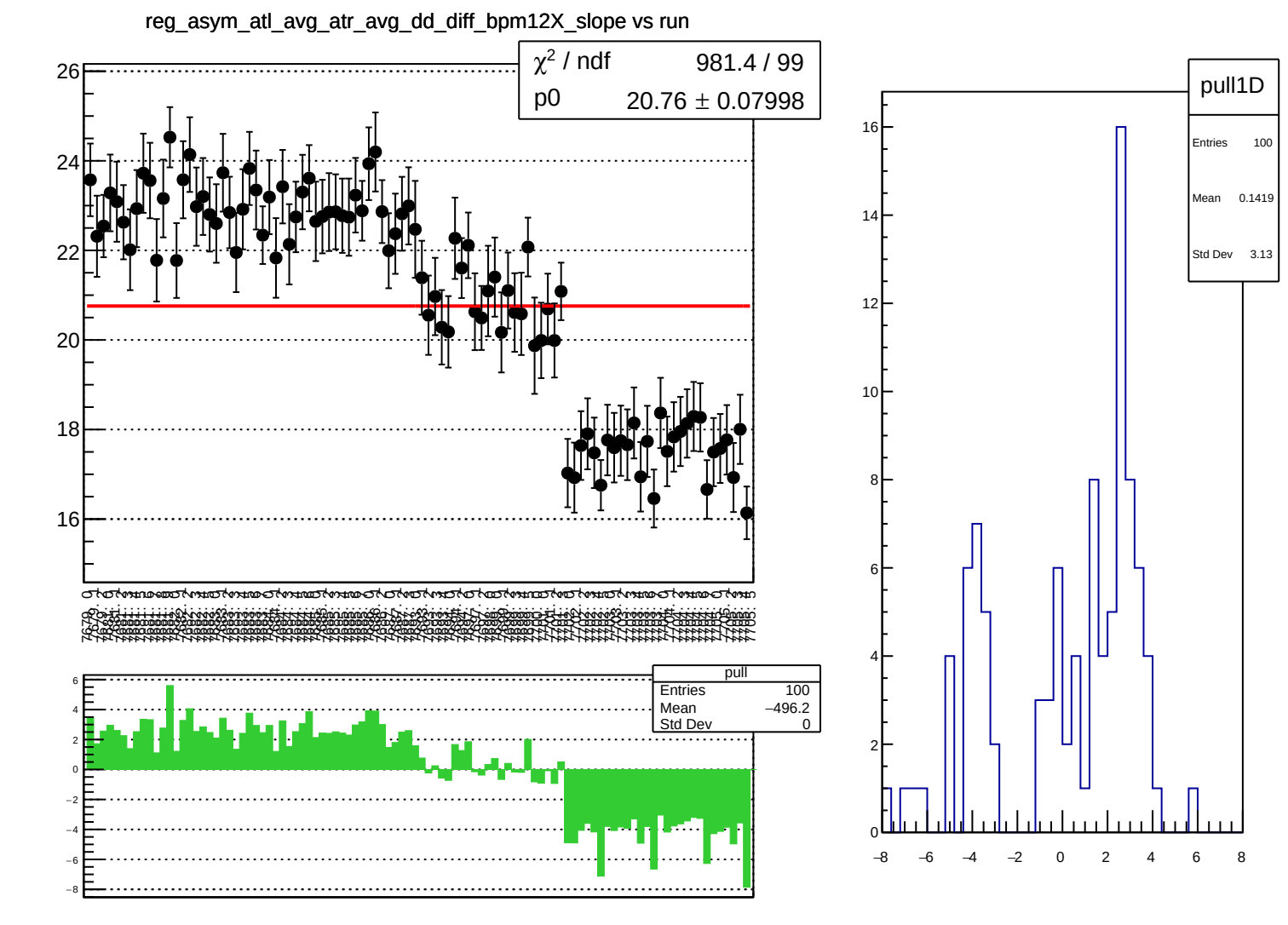

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 224.4 / 99
p0 67.02 ± 0.7388
pull
Entries 100
Mean 117
Std Dev 0
pull1D
Entries 100
Mean −0.4577
Std Dev 1.426

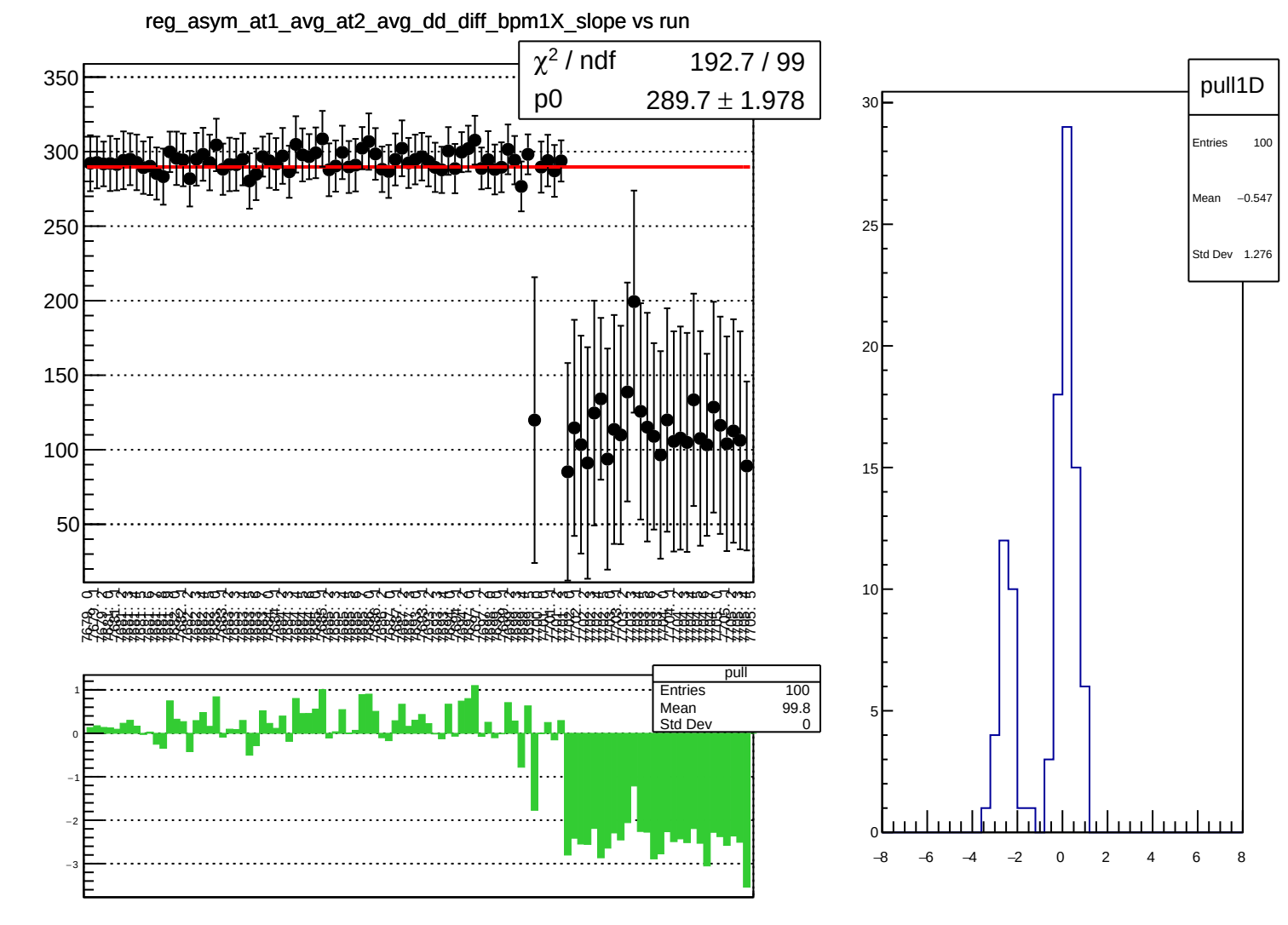

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 70.15 / 99
p0 −8.691 ± 1.023
pull
Entries 100
Mean −0.1687
Std Dev 0
pull1D
Entries 100
Mean −0.07192
Std Dev 0.8344

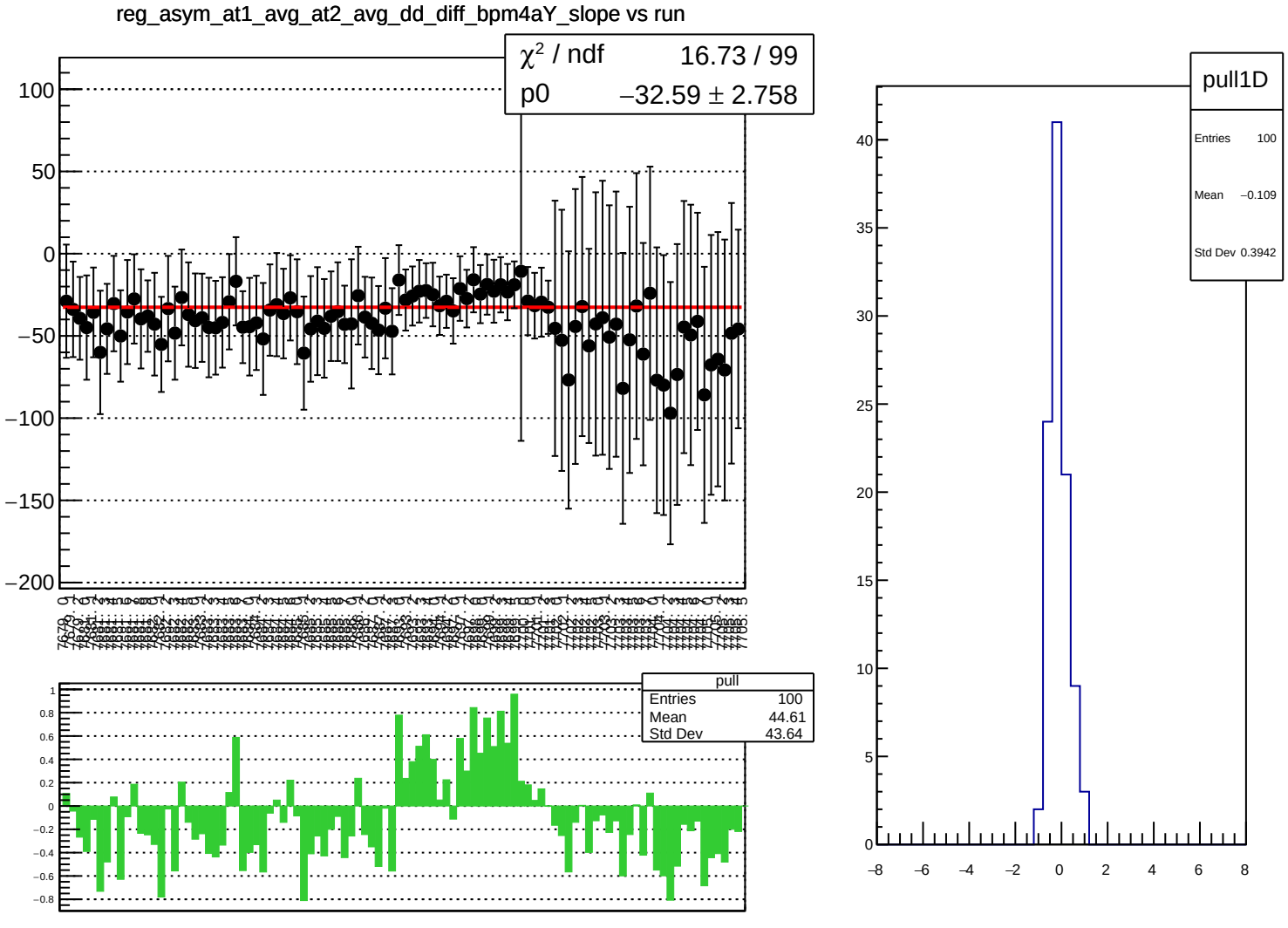

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 233.7 / 99
p0 −83.53 ± 0.594
pull
Entries 100
Mean 115.2
Std Dev 0
pull1D
Entries 100
Mean 0.486
Std Dev 1.449

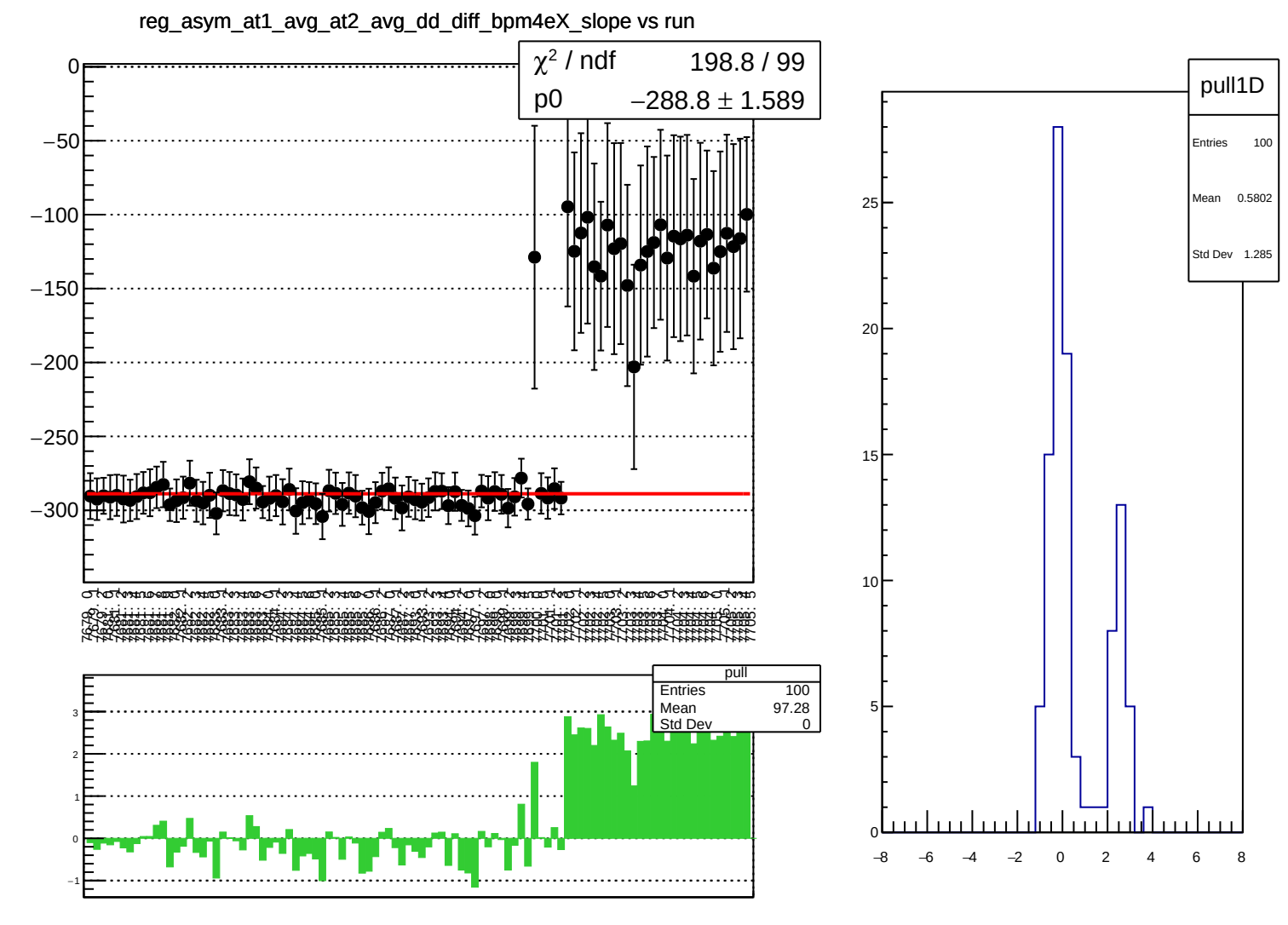

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 70.3 / 99
p0 5.471 ± 1.533
pull
Entries 100
Mean 15.47
Std Dev 23.42

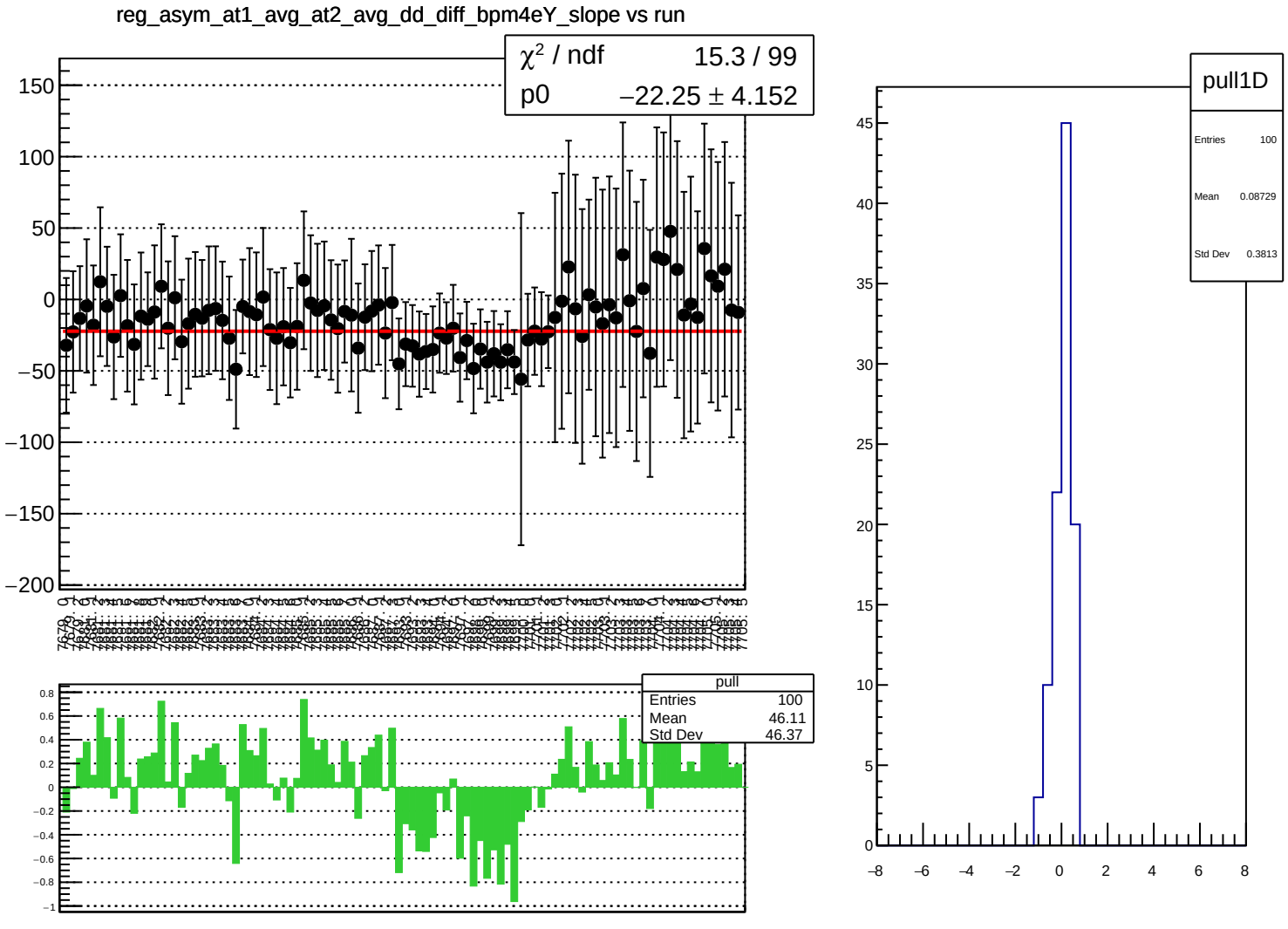

pull1D
Entries 100
Mean 0.07235
Std Dev 0.8353

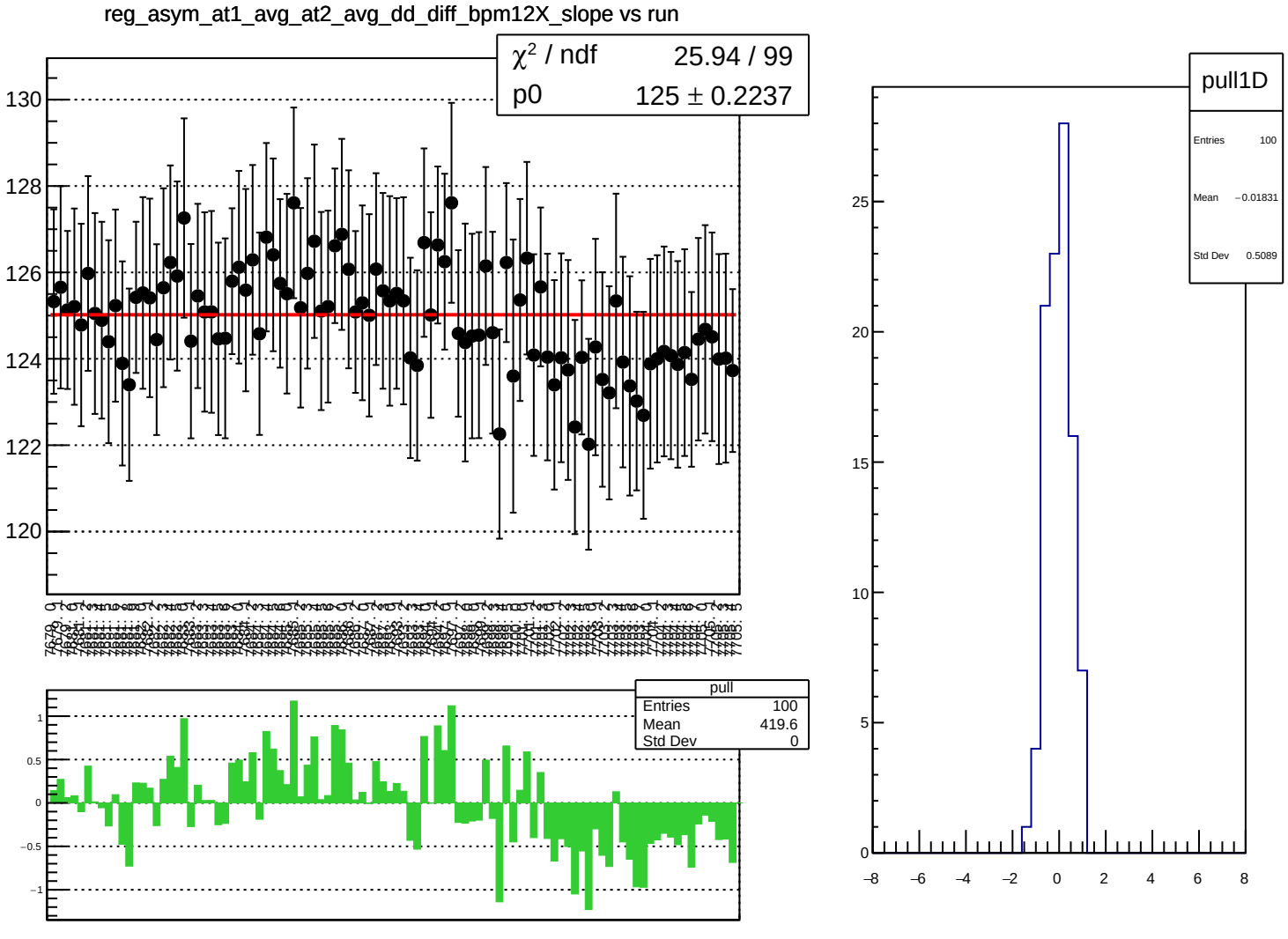

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 981.4 / 99
p0 20.76 ± 0.07998
pull
Entries 100
Mean −496.2
Std Dev 0
pull1D
Entries 100
Mean 0.1419
Std Dev 3.13

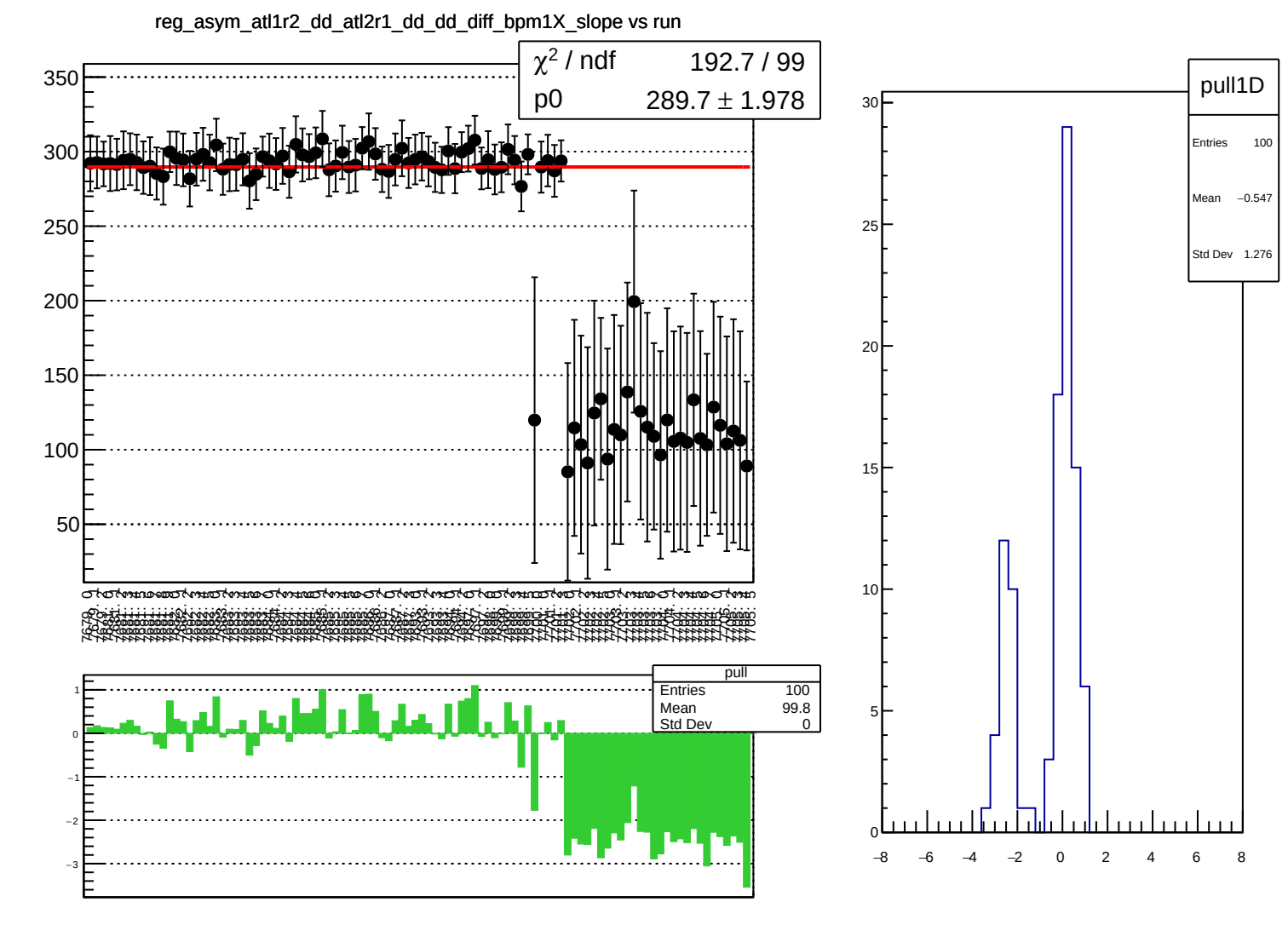

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 192.7 / 99
p0 289.7 ± 1.978
350
300
250
200
150
100
50
pull
Entries 100
Mean 99.8
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 100
Mean −0.547
Std Dev 1.276
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

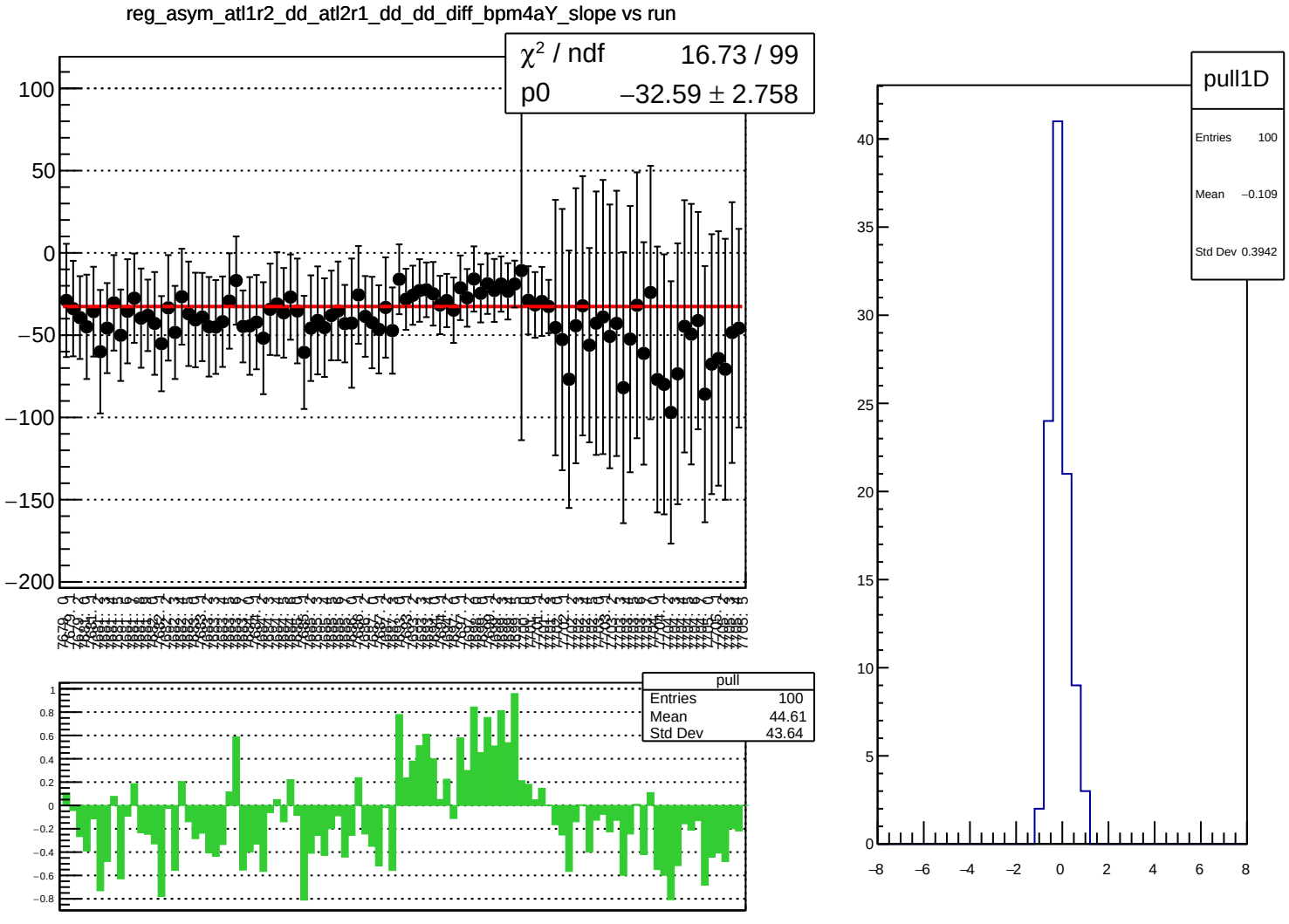

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.73 / 99
p0 −32.59 ± 2.758
100
50
0
−50
−100
−150
−200
pull
Entries 100
Mean 44.61
Std Dev 43.64
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 100
Mean −0.109
Std Dev 0.3942
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

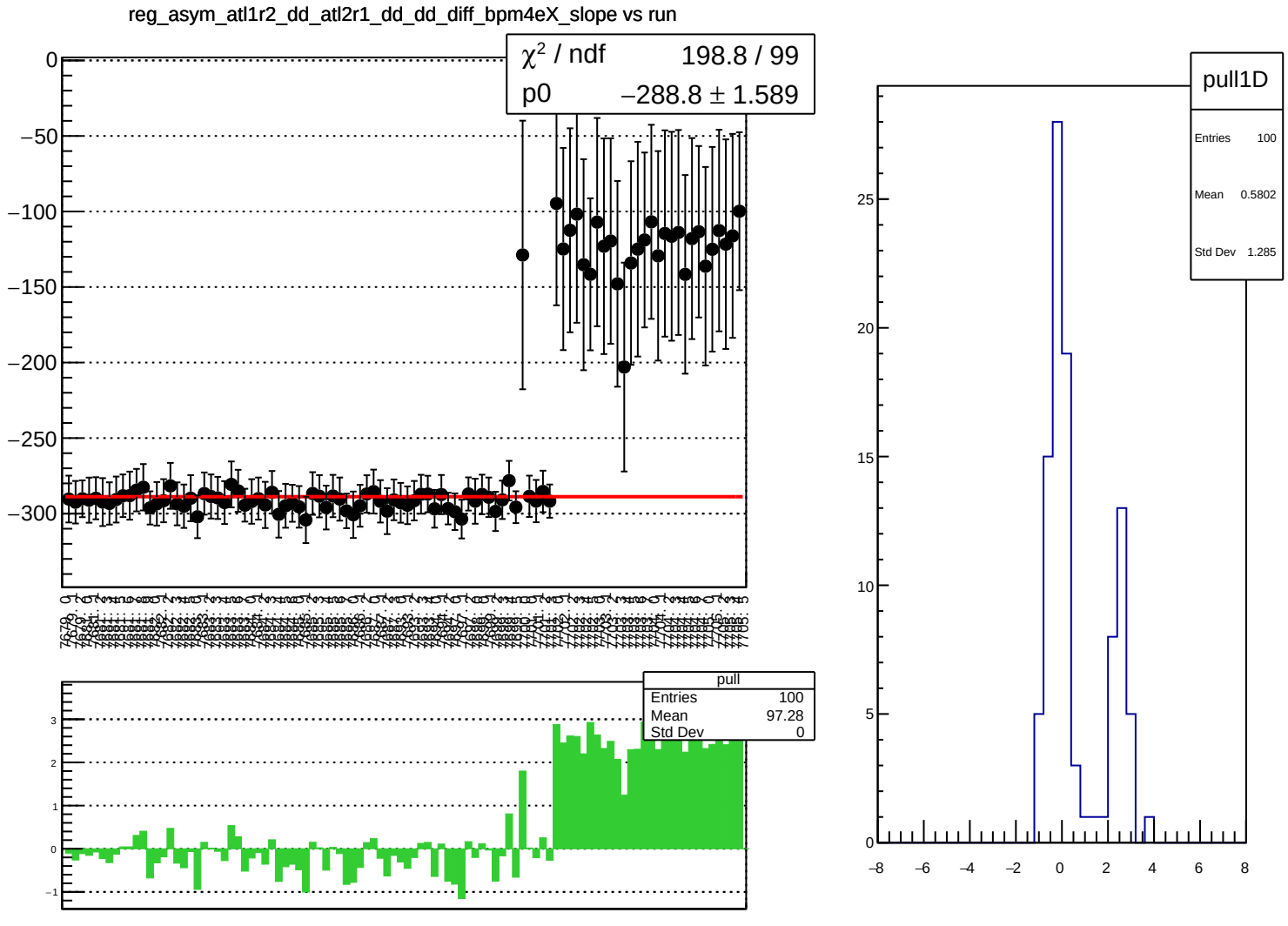

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 198.8 / 99
p0 −288.8 ± 1.589
pull
Entries 100
Mean 97.28
Std Dev 0
pull1D
Entries 100
Mean 0.5802
Std Dev 1.285

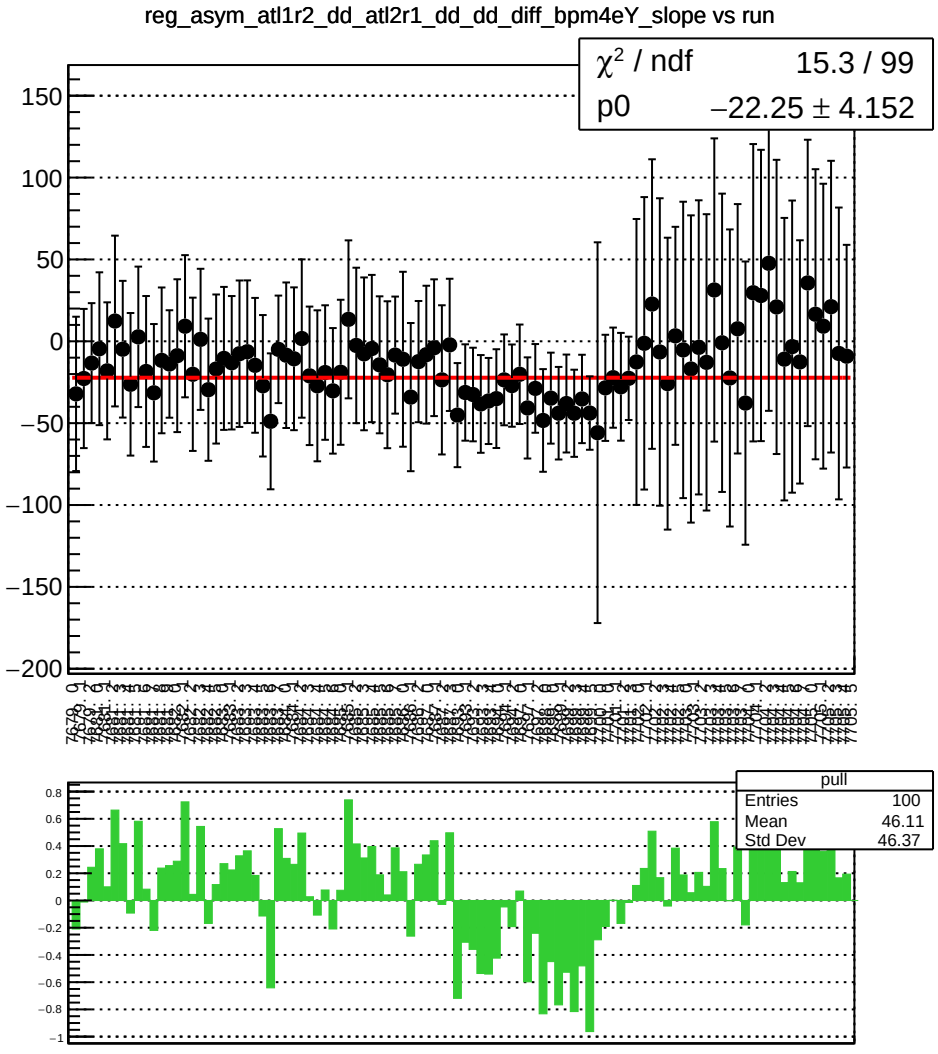

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.3 / 99
p0 −22.25 ± 4.152
150
100
50
0
−50
−100
−150
−200
pull
Entries 100
Mean 46.11
Std Dev 46.37
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 100
Mean 0.08729
Std Dev 0.3813
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

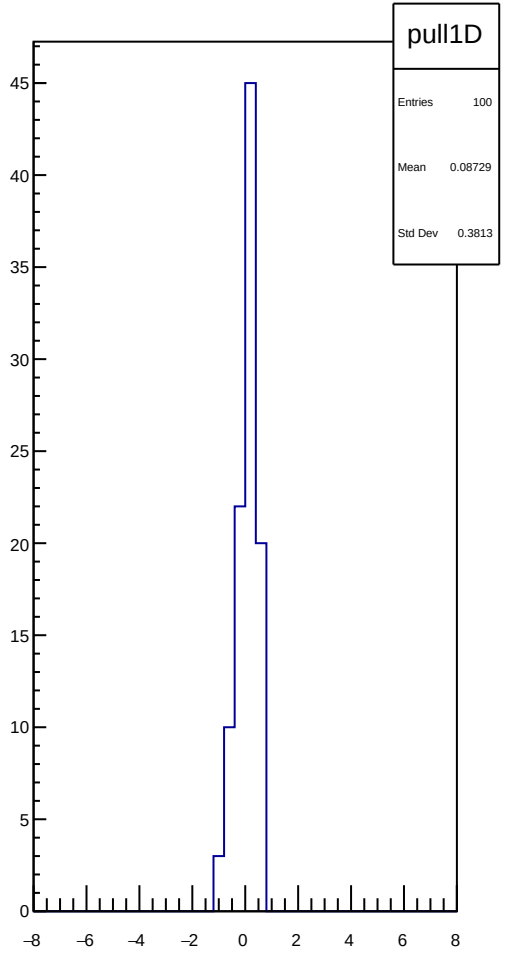

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 25.94 / 99
p0 125 ± 0.2237
130
128
126
124
122
120
pull
Entries 100
Mean 419.6
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 100
Mean −0.01831
Std Dev 0.5089
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

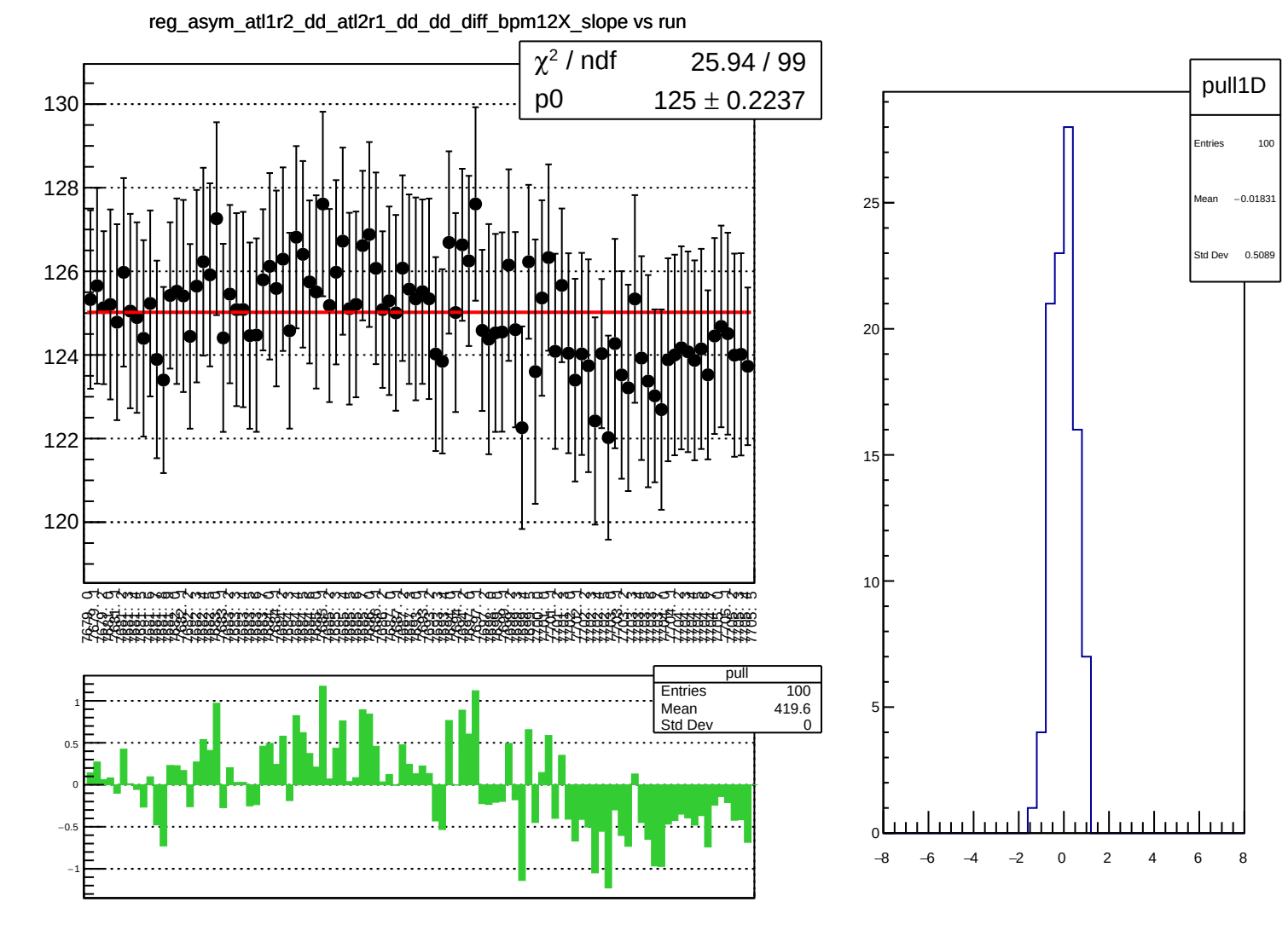

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 192.7 / 99
p0 289.7 ± 1.978
350
300
250
200
150
100
50
pull
Entries 100
Mean 99.8
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 100
Mean −0.547
Std Dev 1.276
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

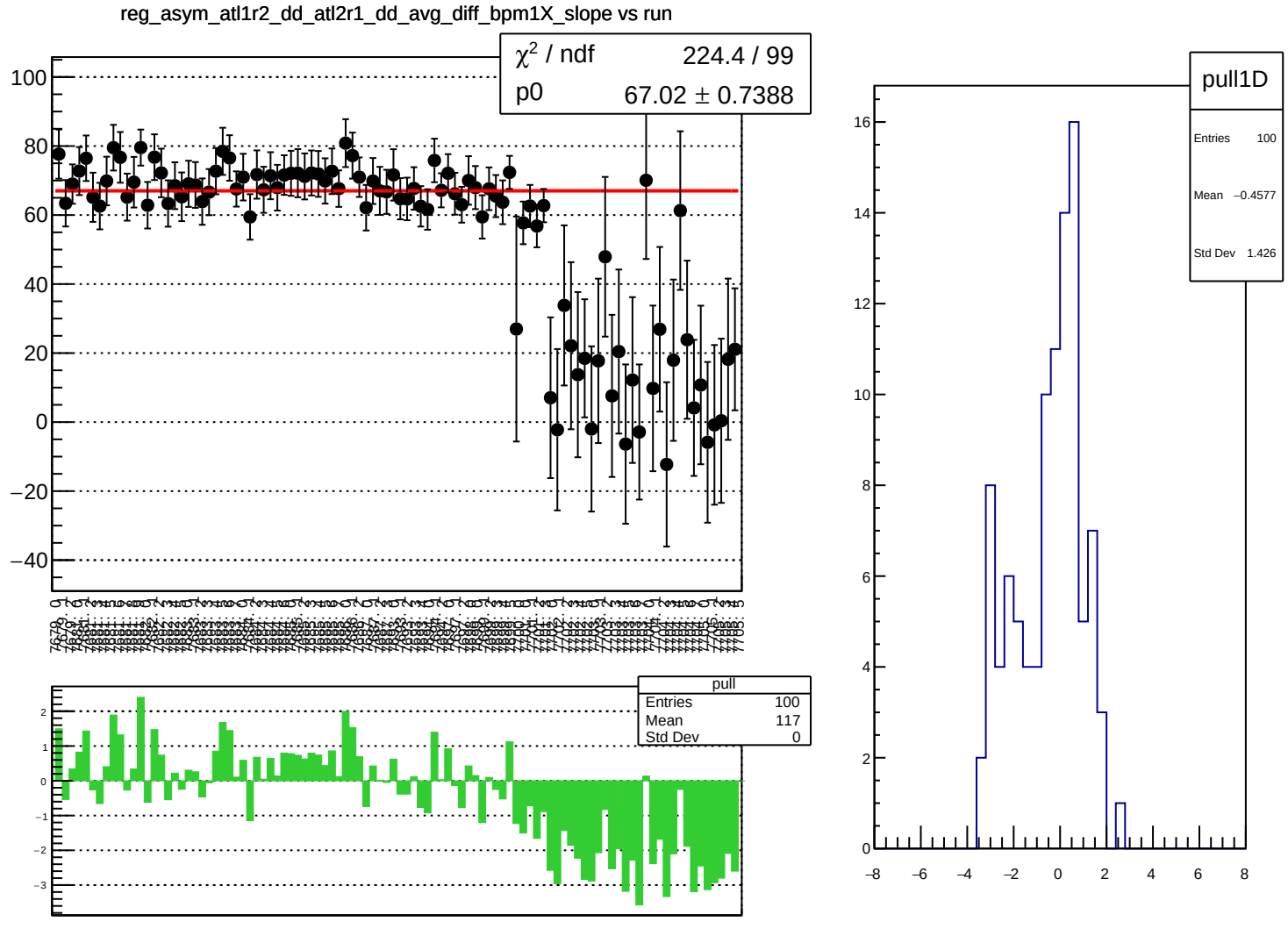

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.73 / 99
p0 −32.59 ± 2.758
100
50
0
−50
−100
−150
−200
pull
Entries 100
Mean 44.61
Std Dev 43.64
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 100
Mean −0.109
Std Dev 0.3942
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

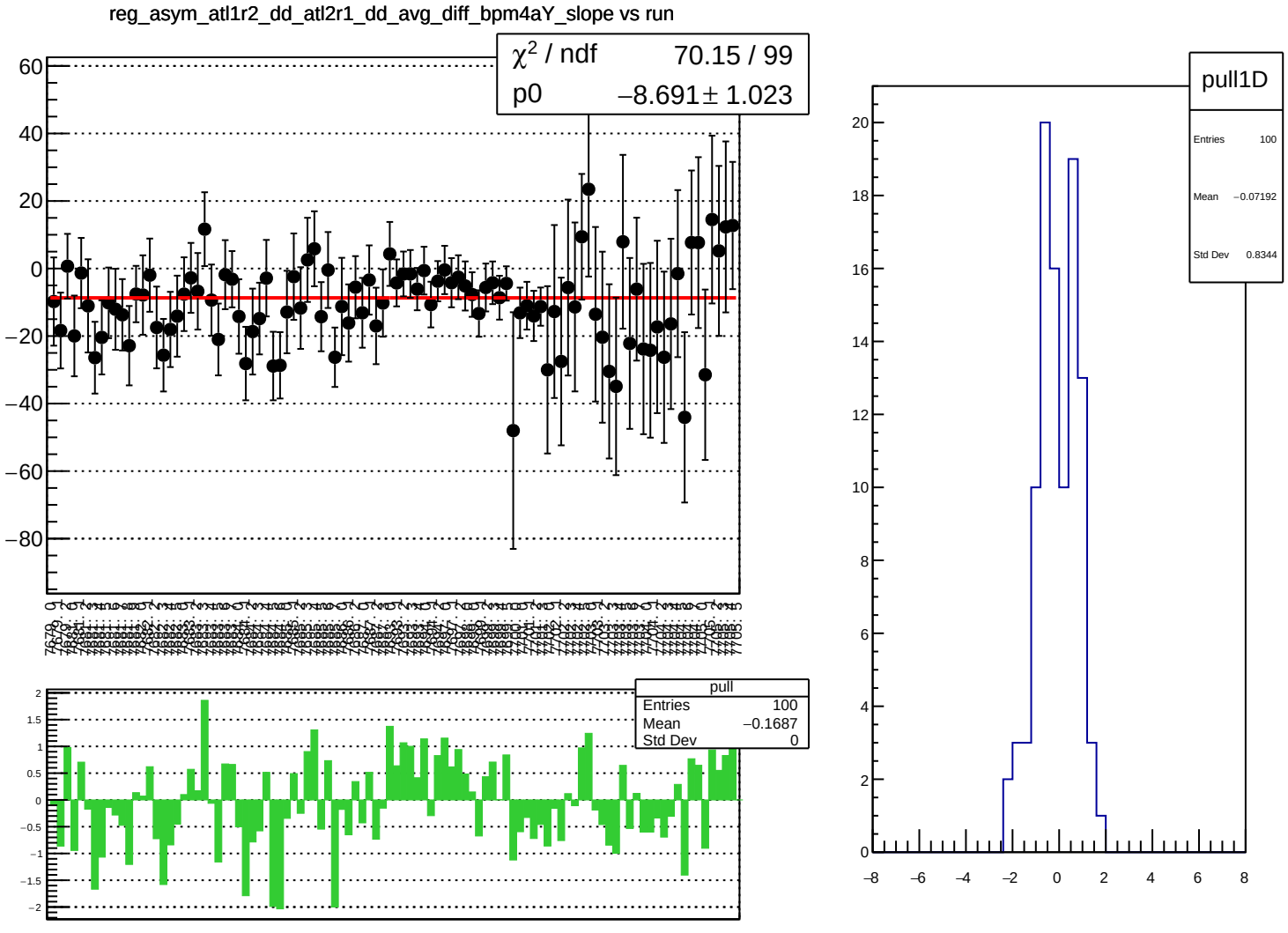

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 198.8 / 99
p0 −288.8 ± 1.589
pull
Entries 100
Mean 97.28
Std Dev 0
pull1D
Entries 100
Mean 0.5802
Std Dev 1.285

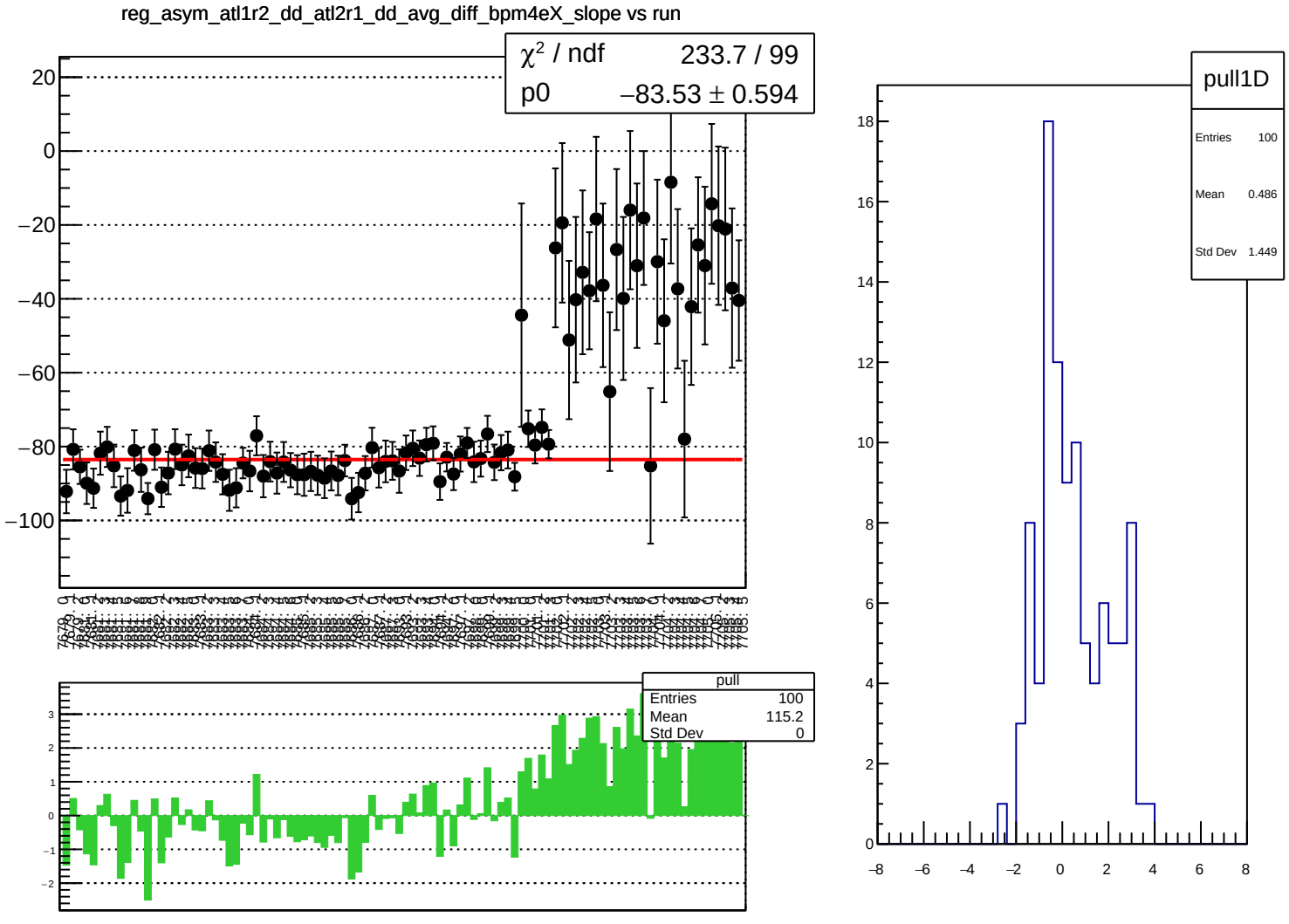

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.3 / 99
p0 −22.25 ± 4.152
150
100
50
0
−50
−100
−150
−200
pull
Entries 100
Mean 46.11
Std Dev 46.37
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

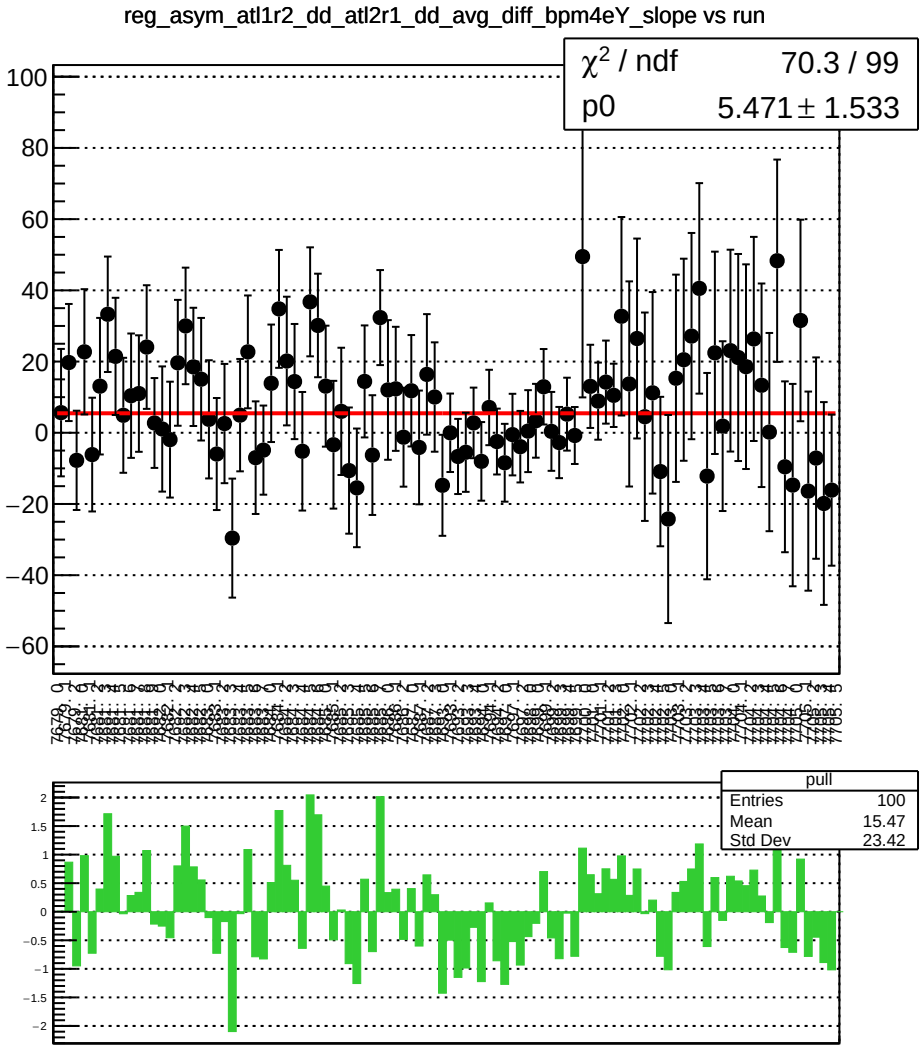

pull1D
Entries 100
Mean 0.08729
Std Dev 0.3813
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

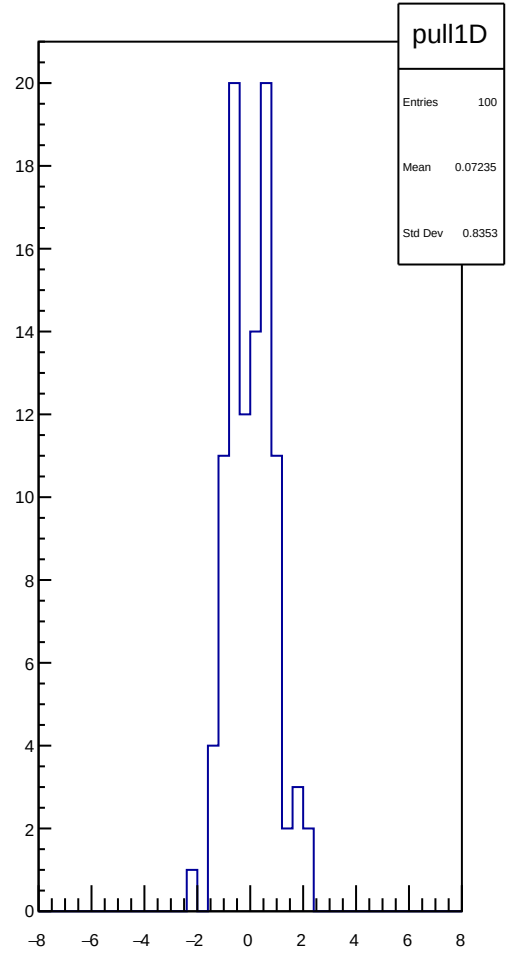

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 25.94 / 99
p0 125 ± 0.2237
130
128
126
124
122
120
pull
Entries 100
Mean 419.6
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 100
Mean −0.01831
Std Dev 0.5089
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

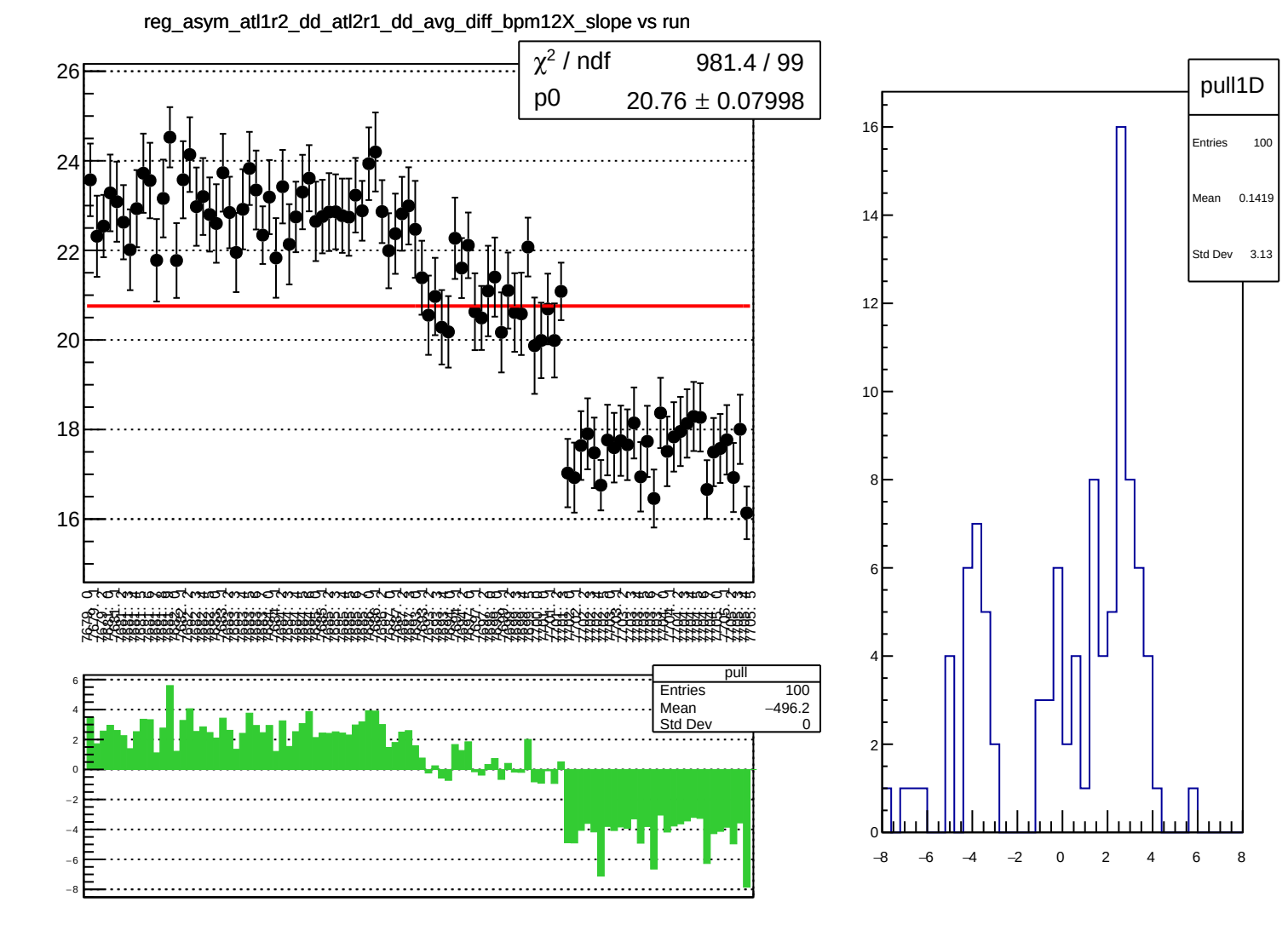

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 224.4 / 99
p0 67.02 ± 0.7388
pull
Entries 100
Mean 117
Std Dev 0
pull1D
Entries 100
Mean −0.4577
Std Dev 1.426

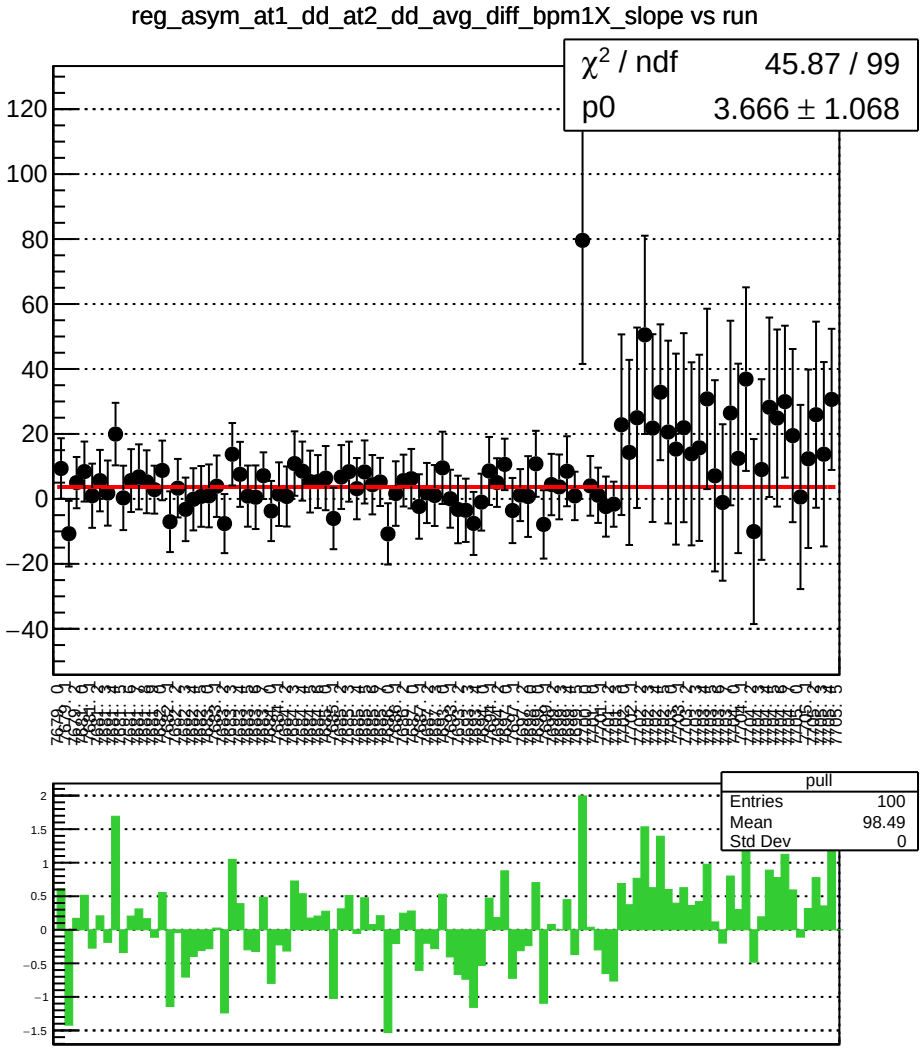

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 70.15 / 99
p0 −8.691 ± 1.023
pull
Entries 100
Mean −0.1687
Std Dev 0
pull1D
Entries 100
Mean −0.07192
Std Dev 0.8344

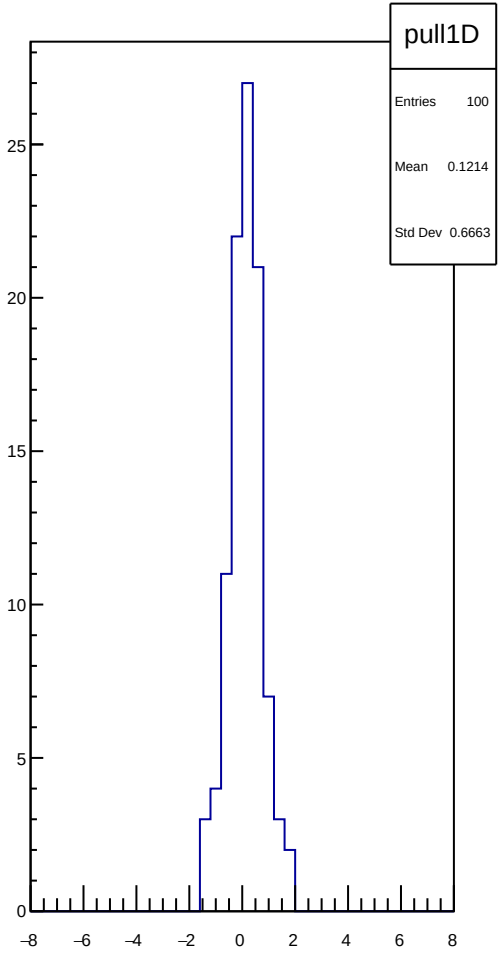

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 233.7 / 99
p0 −83.53 ± 0.594
pull
Entries 100
Mean 115.2
Std Dev 0
pull1D
Entries 100
Mean 0.486
Std Dev 1.449

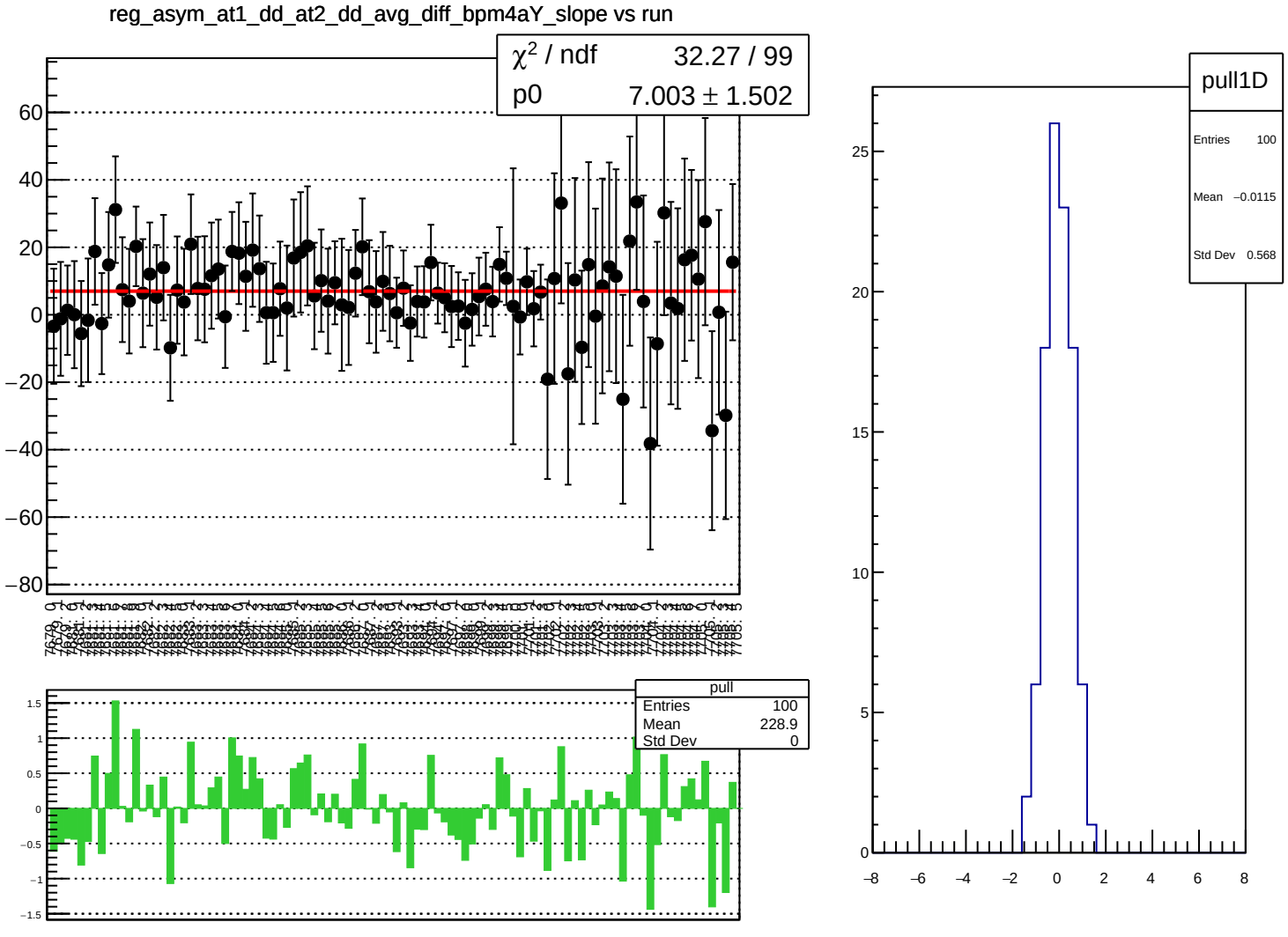

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 70.3 / 99
p0 5.471 ± 1.533
pull
Entries 100
Mean 15.47
Std Dev 23.42

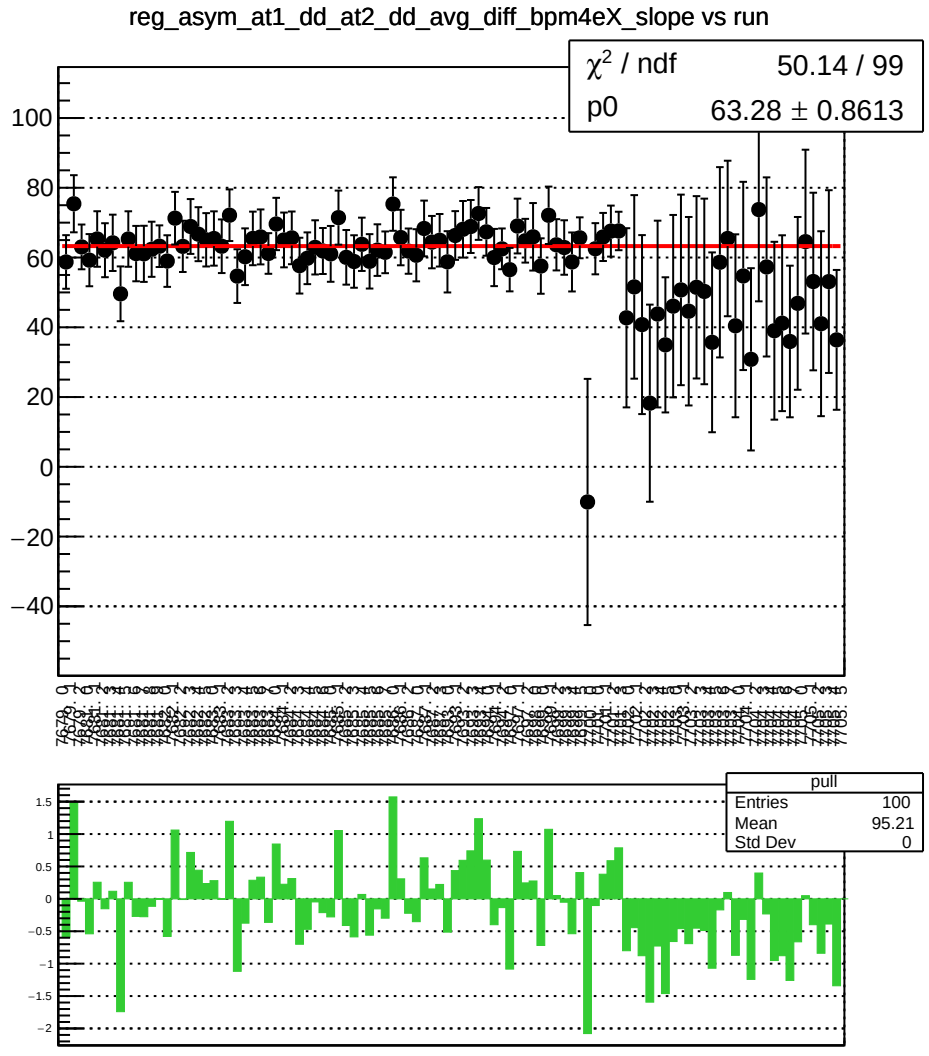

pull1D
Entries 100
Mean 0.07235
Std Dev 0.8353

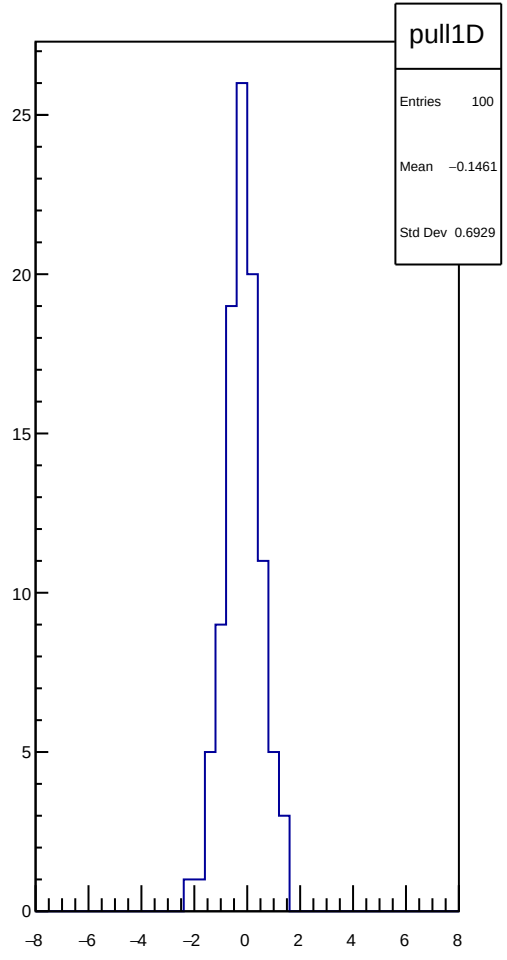

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 981.4 / 99
p0 20.76 ± 0.07998
pull
Entries 100
Mean −496.2
Std Dev 0
pull1D
Entries 100
Mean 0.1419
Std Dev 3.13

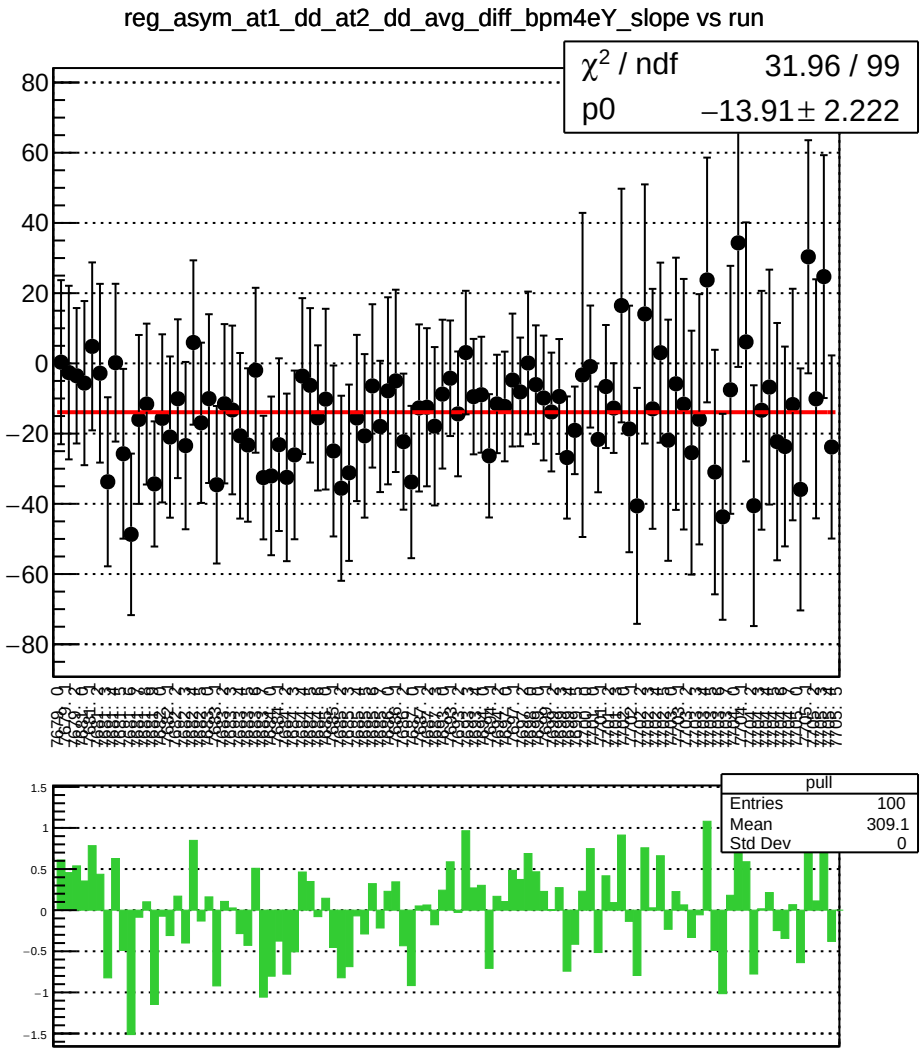

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 45.87 / 99
p0 3.666 ± 1.068
pull
Entries 100
Mean 98.49
Std Dev 0

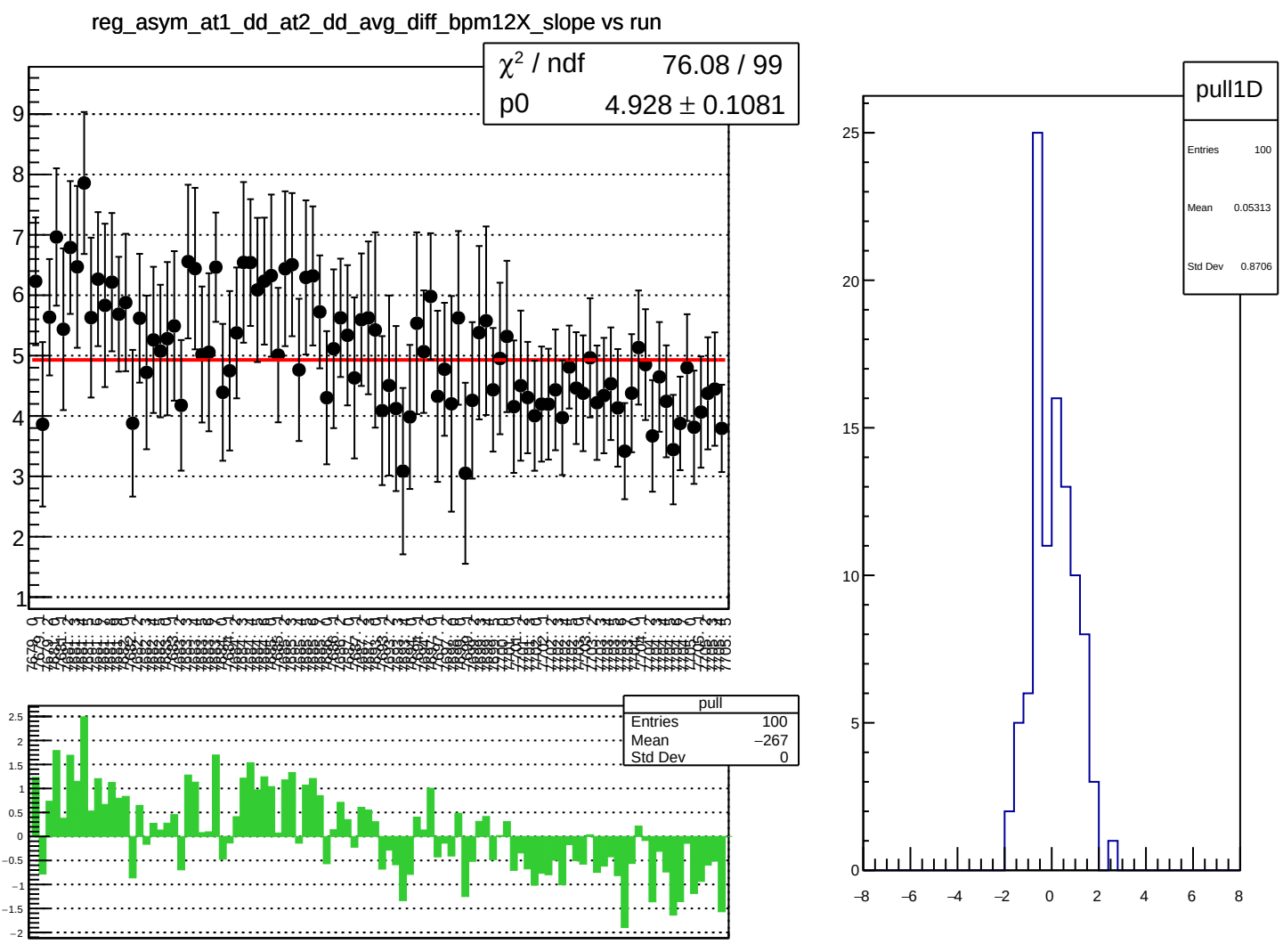

pull1D
Entries 100
Mean 0.1214
Std Dev 0.6663

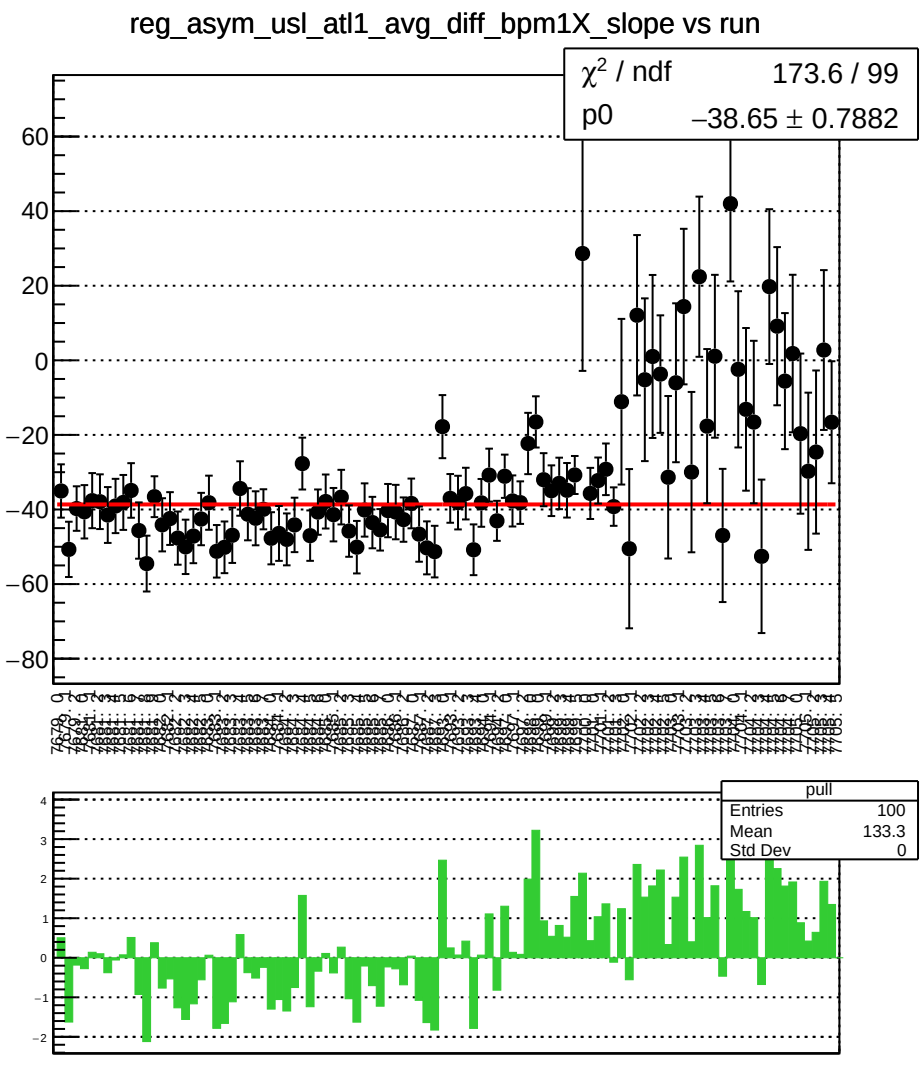

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 32.27 / 99
p0 7.003 ± 1.502
pull
Entries 100
Mean 228.9
Std Dev 0
pull1D
Entries 100
Mean −0.0115
Std Dev 0.568

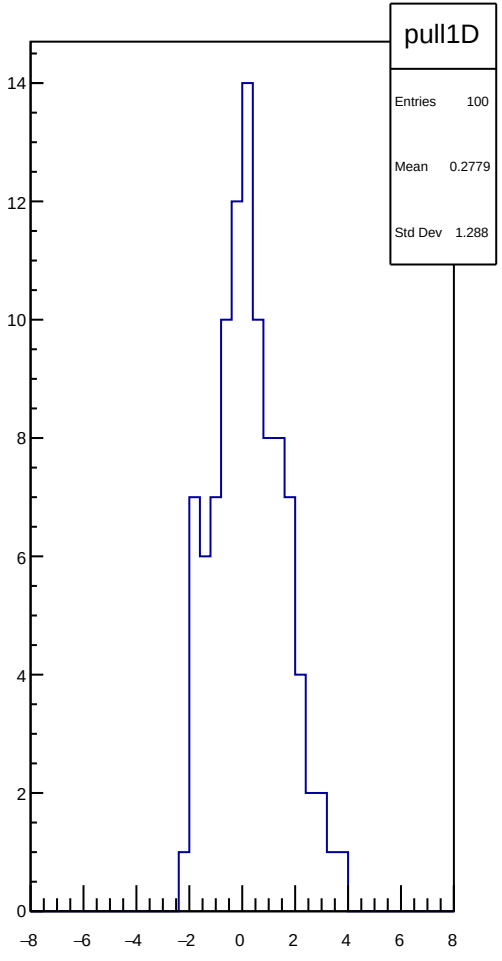

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 50.14 / 99
p0 63.28 ± 0.8613
pull
Entries 100
Mean 95.21
Std Dev 0

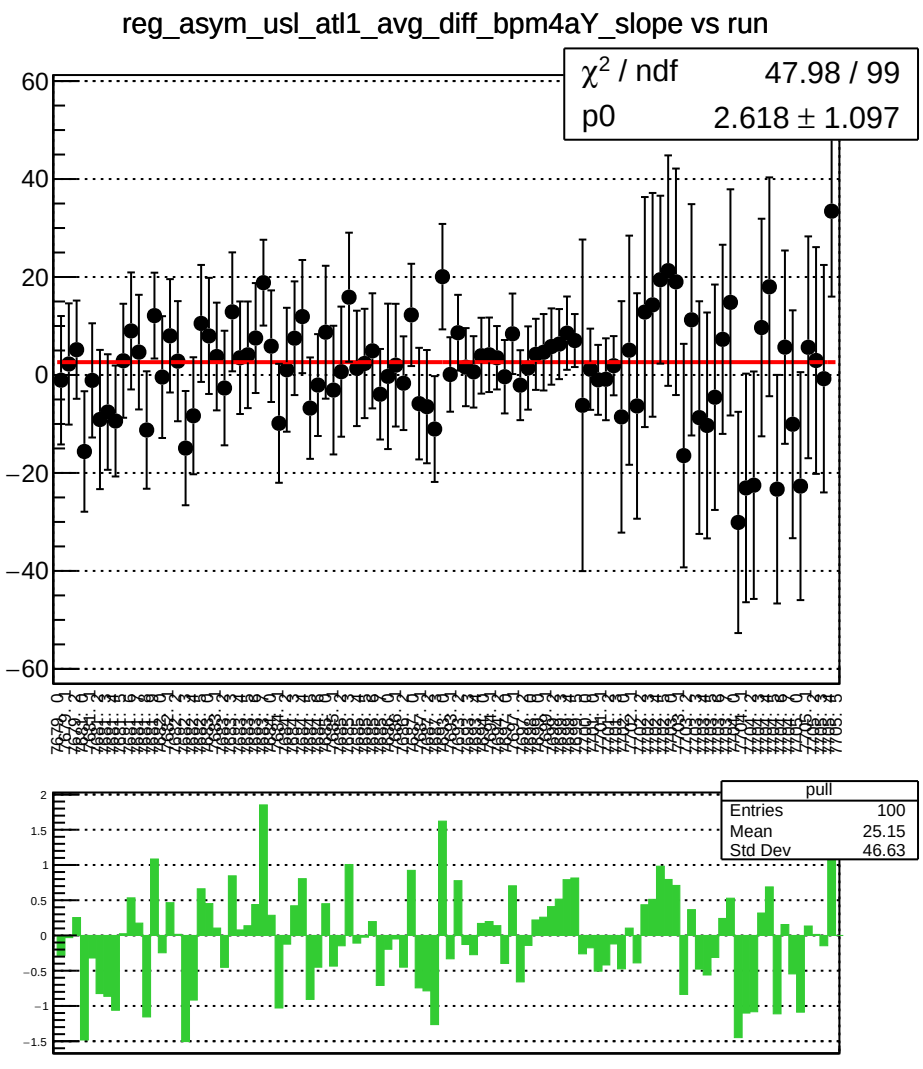

pull1D
Entries 100
Mean −0.1461
Std Dev 0.6929

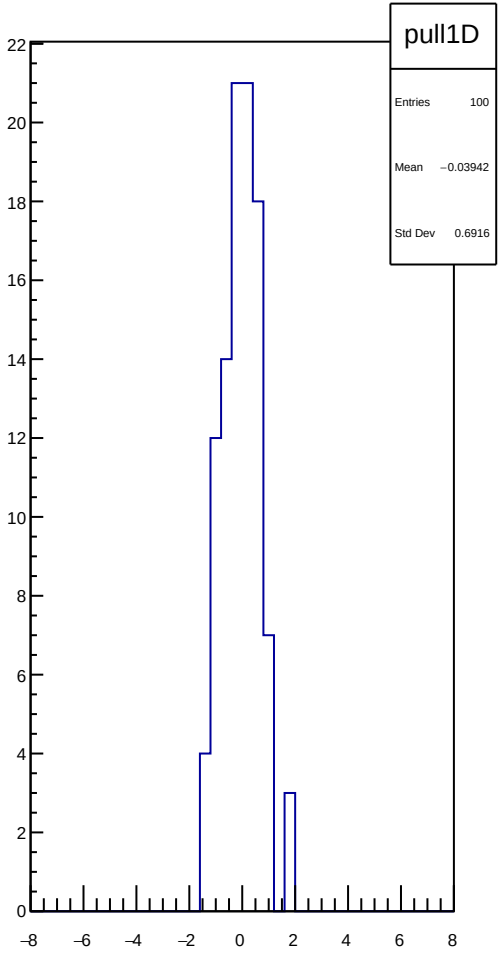

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 31.96 / 99
p0 −13.91± 2.222
pull
Entries 100
Mean 309.1
Std Dev 0
pull1D
Entries 100
Mean 0.009572
Std Dev 0.5652

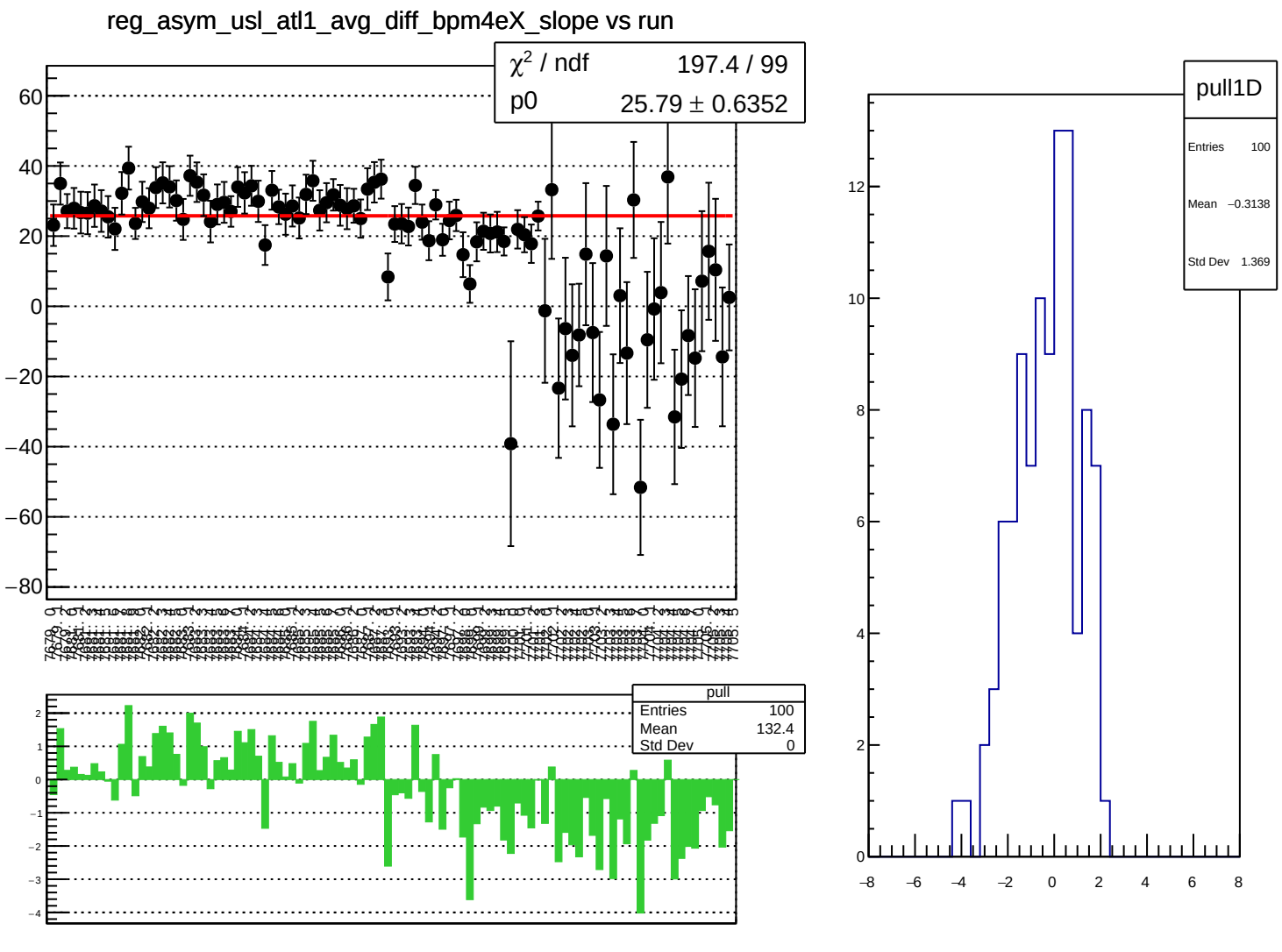

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 76.08 / 99
p0 4.928 ± 0.1081
pull
Entries 100
Mean −267
Std Dev 0
pull1D
Entries 100
Mean 0.05313
Std Dev 0.8706

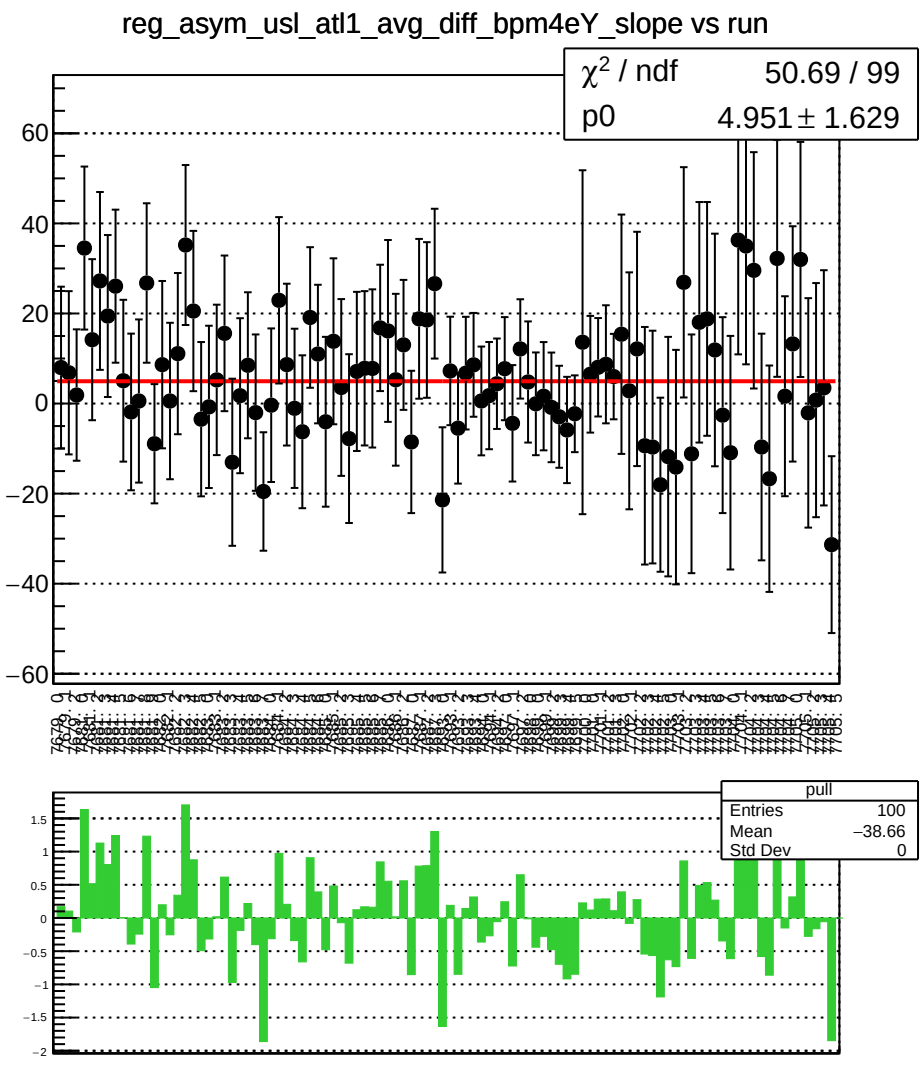

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 173.6 / 99
p0 −38.65 ± 0.7882
pull
Entries 100
Mean 133.3
Std Dev 0

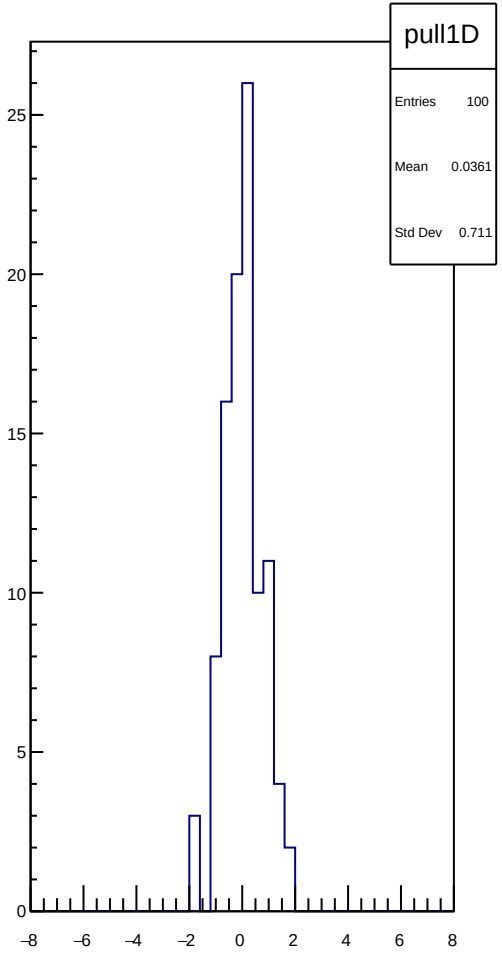

pull1D
Entries 100
Mean 0.2779
Std Dev 1.288

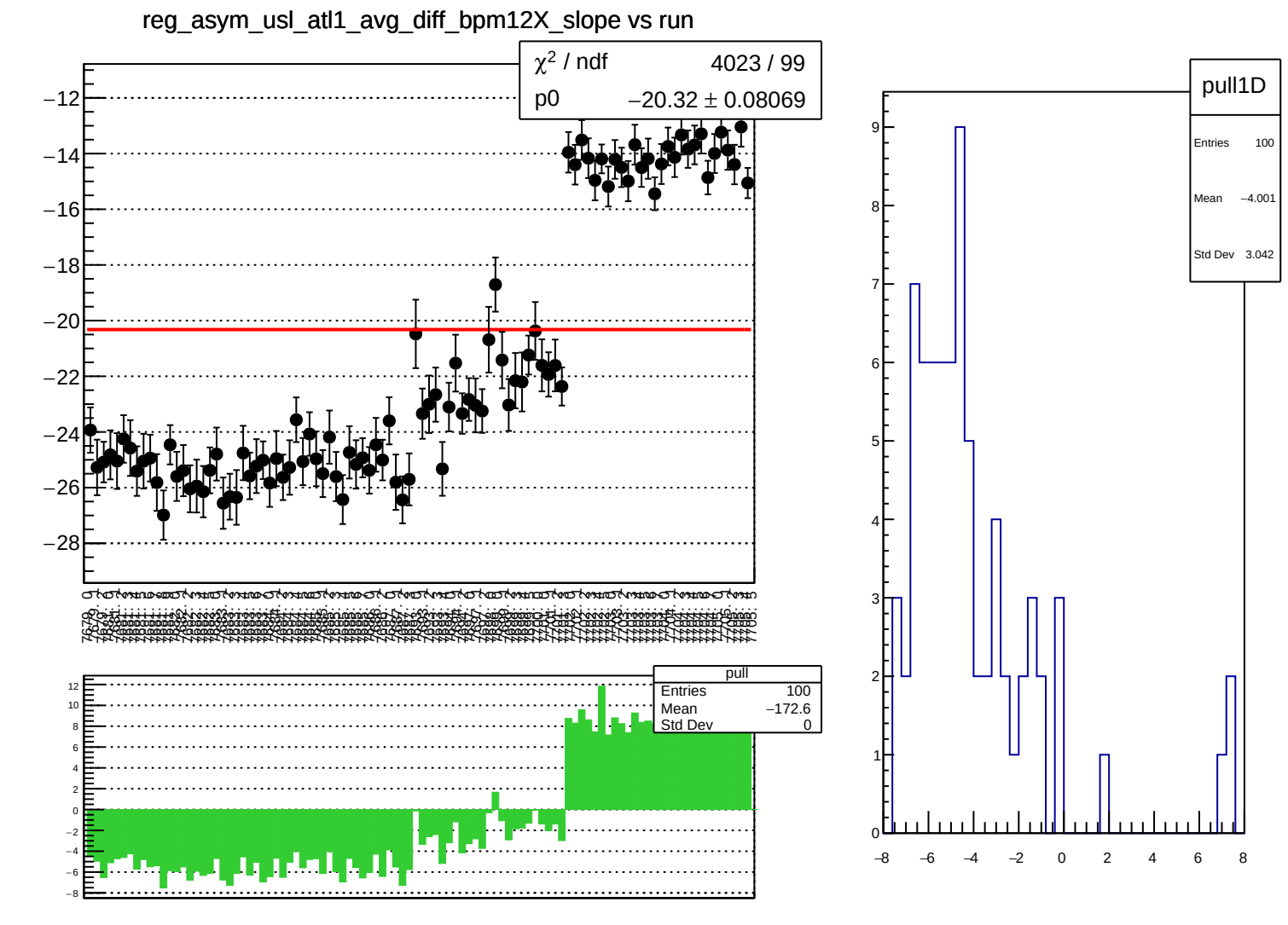

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 47.98 / 99
p0 2.618 ± 1.097
pull
Entries 100
Mean 25.15
Std Dev 46.63

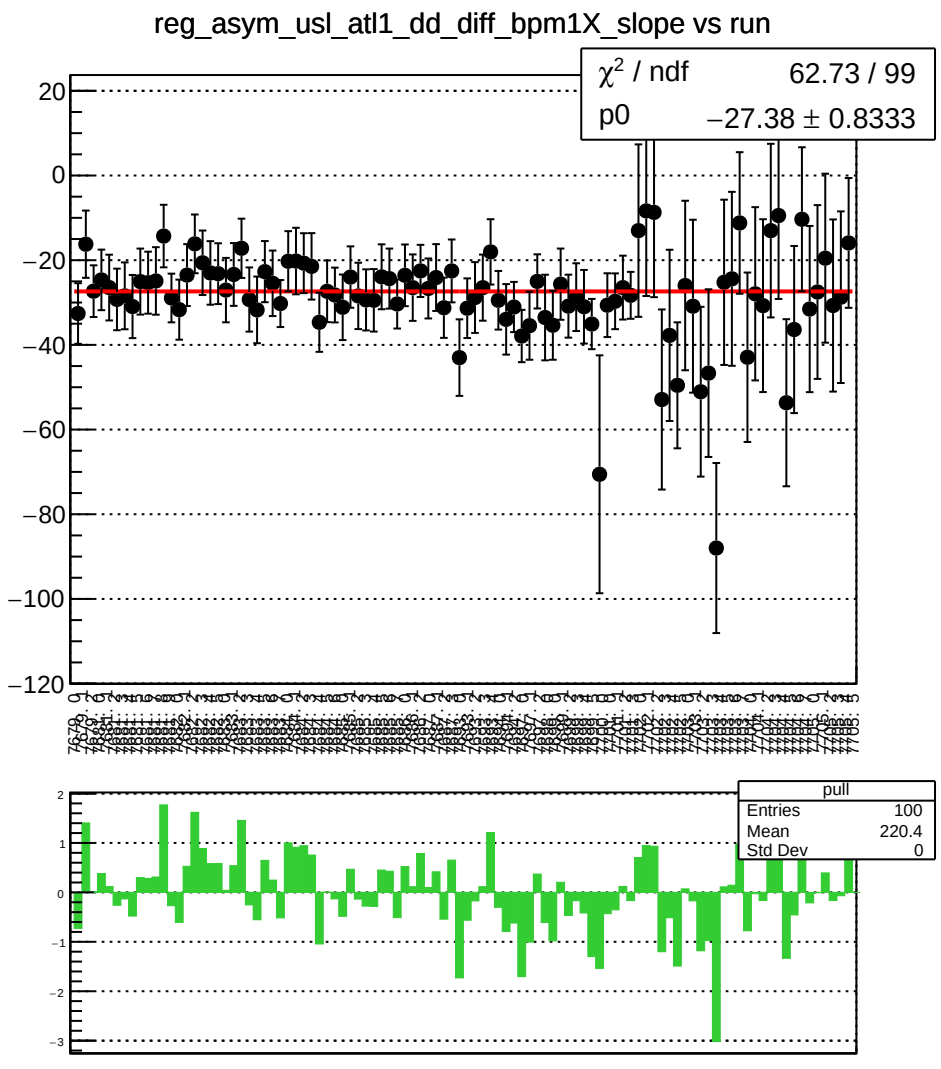

pull1D
Entries 100
Mean −0.03942
Std Dev 0.6916

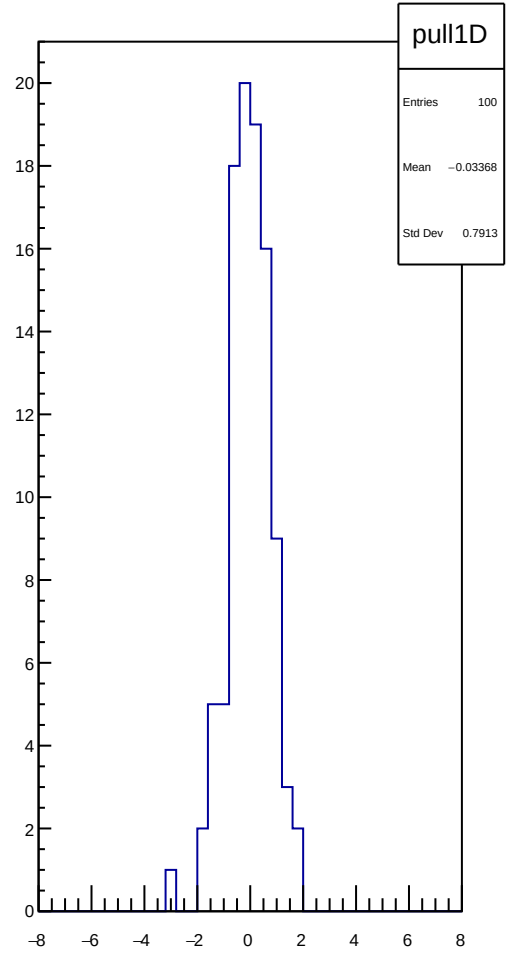

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 197.4 / 99
p0 25.79 ± 0.6352
pull
Entries 100
Mean 132.4
Std Dev 0
pull1D
Entries 100
Mean −0.3138
Std Dev 1.369

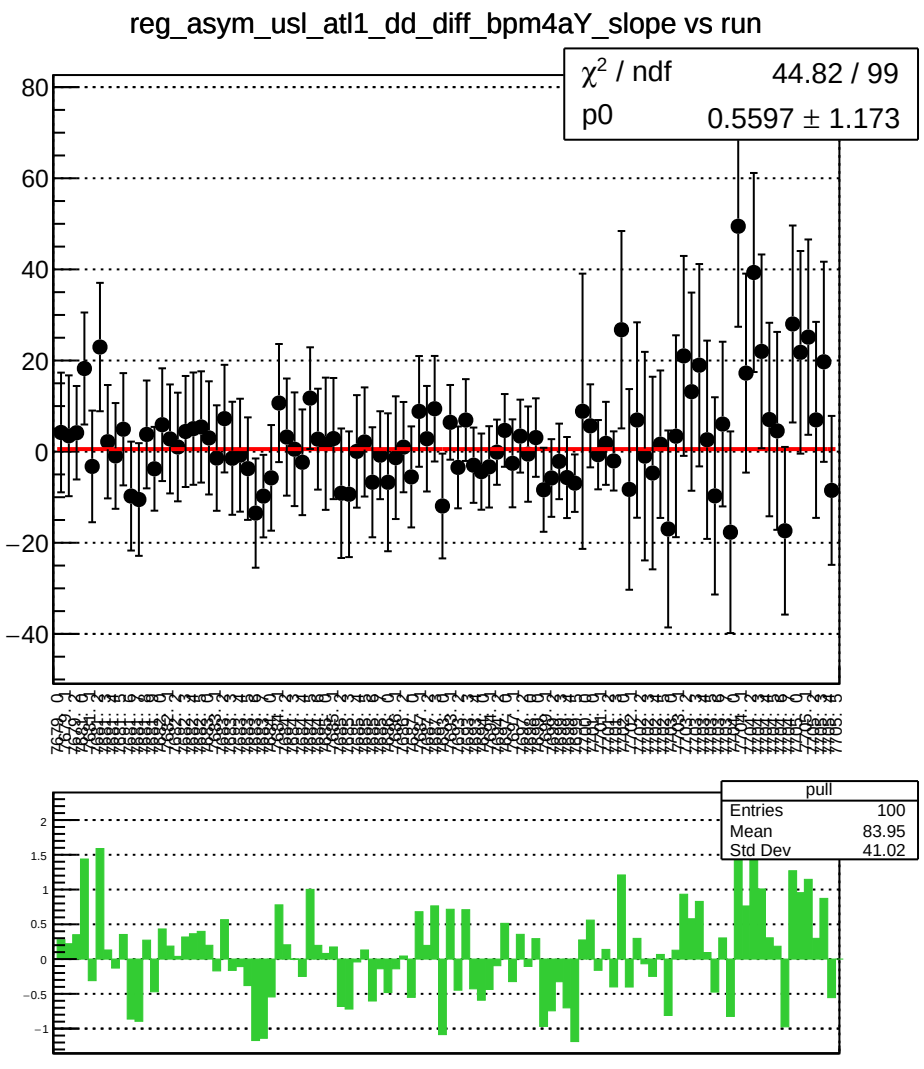

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 50.69 / 99
p0 4.951 ± 1.629
pull
Entries 100
Mean −38.66
Std Dev 0

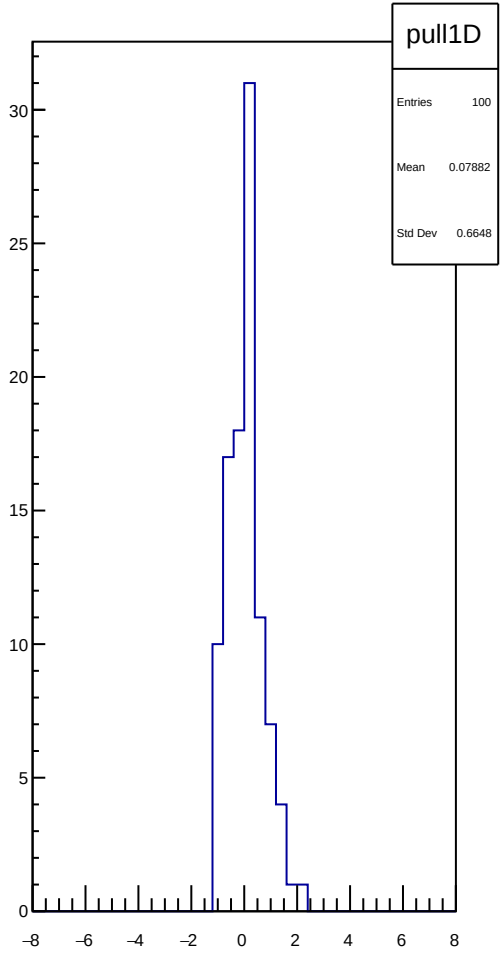

pull1D
Entries 100
Mean 0.0361
Std Dev 0.711

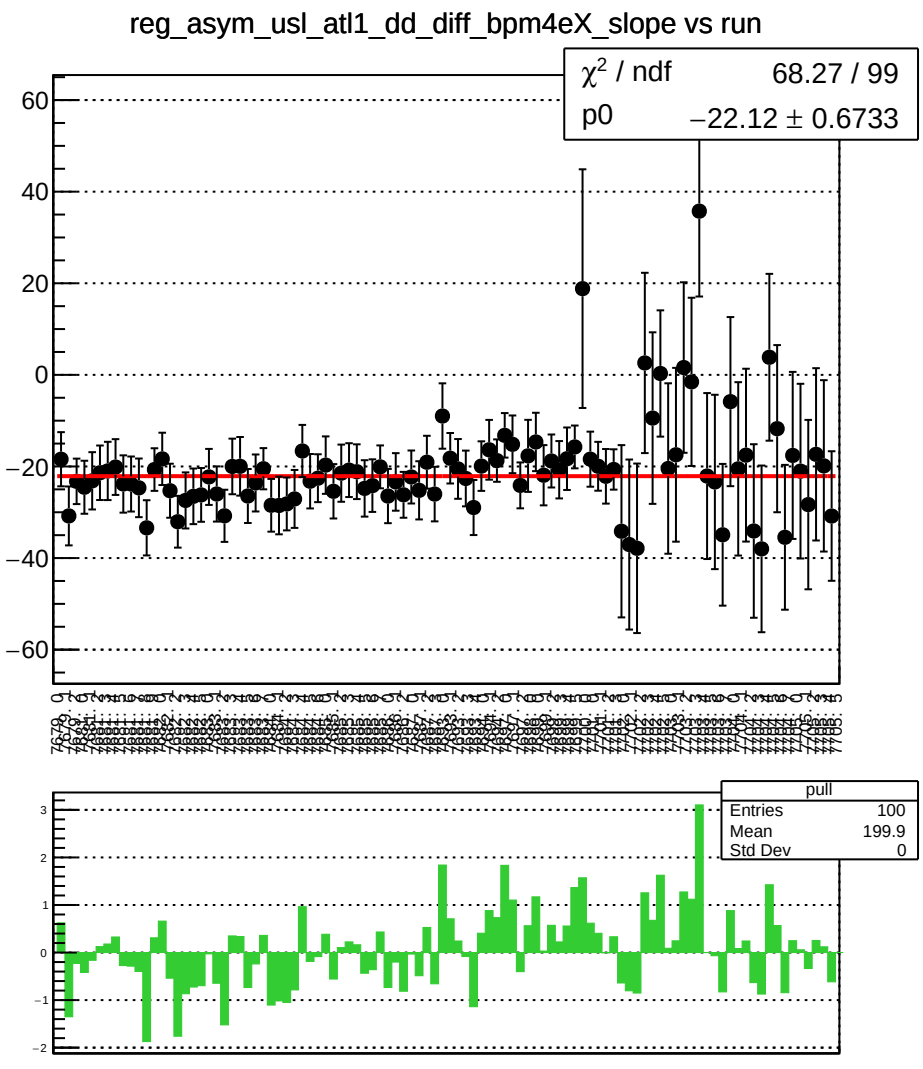

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 4023 / 99
p0 −20.32 ± 0.08069
pull
Entries 100
Mean −172.6
Std Dev 0
pull1D
Entries 100
Mean −4.001
Std Dev 3.042

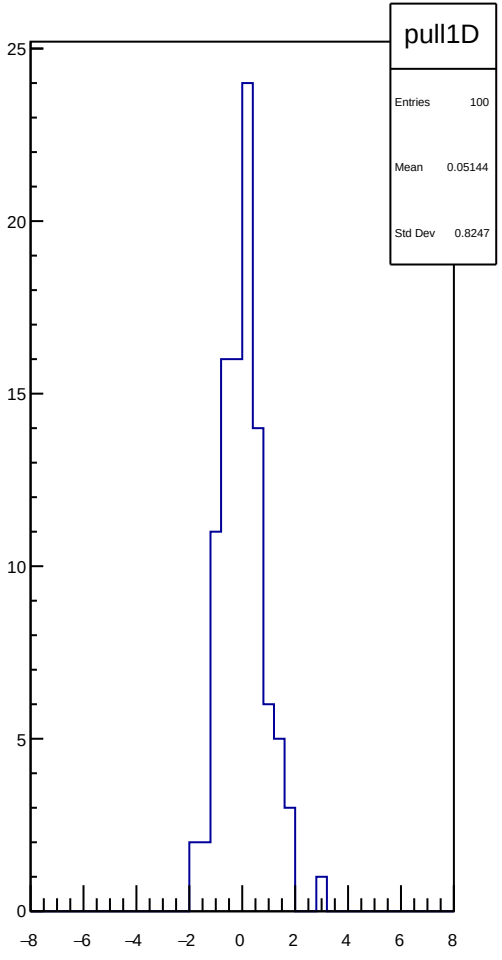

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 62.73 / 99
p0 −27.38 ± 0.8333
pull
Entries 100
Mean 220.4
Std Dev 0

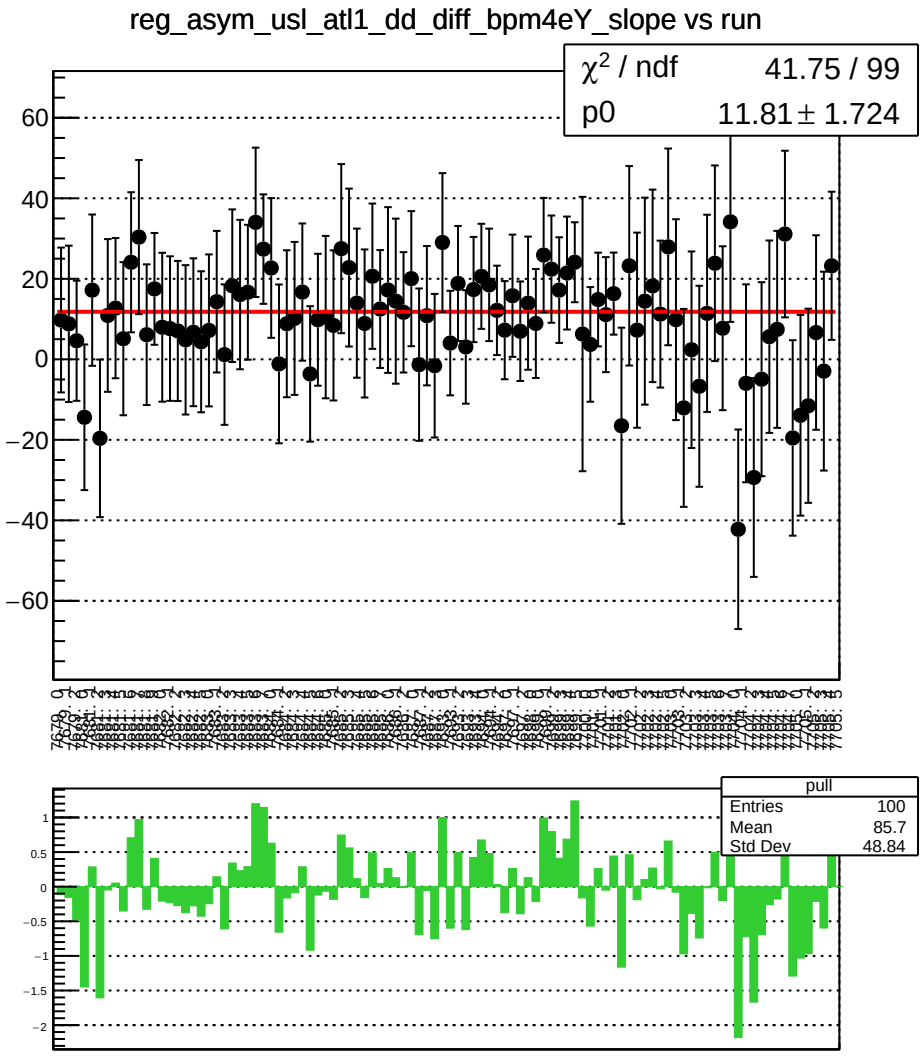

pull1D
Entries 100
Mean −0.03368
Std Dev 0.7913

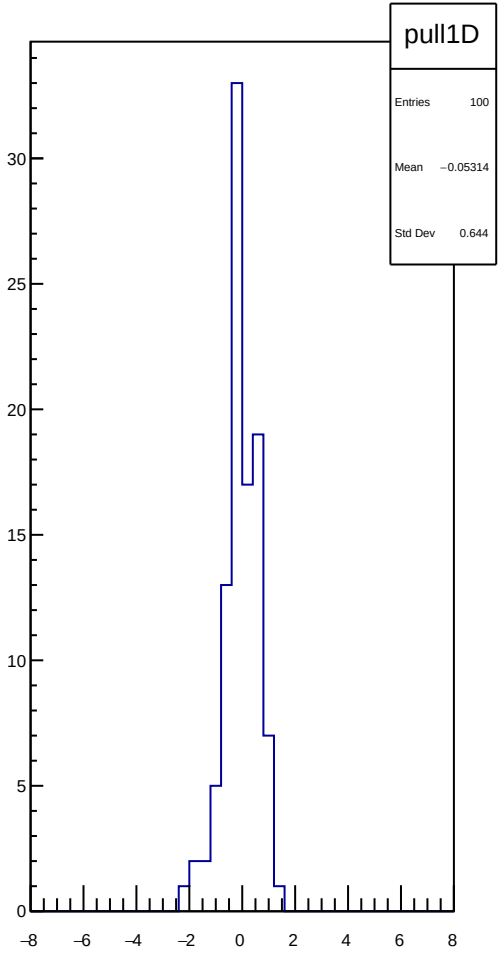

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 44.82 / 99
p0 0.5597 ± 1.173
pull
Entries 100
Mean 83.95
Std Dev 41.02

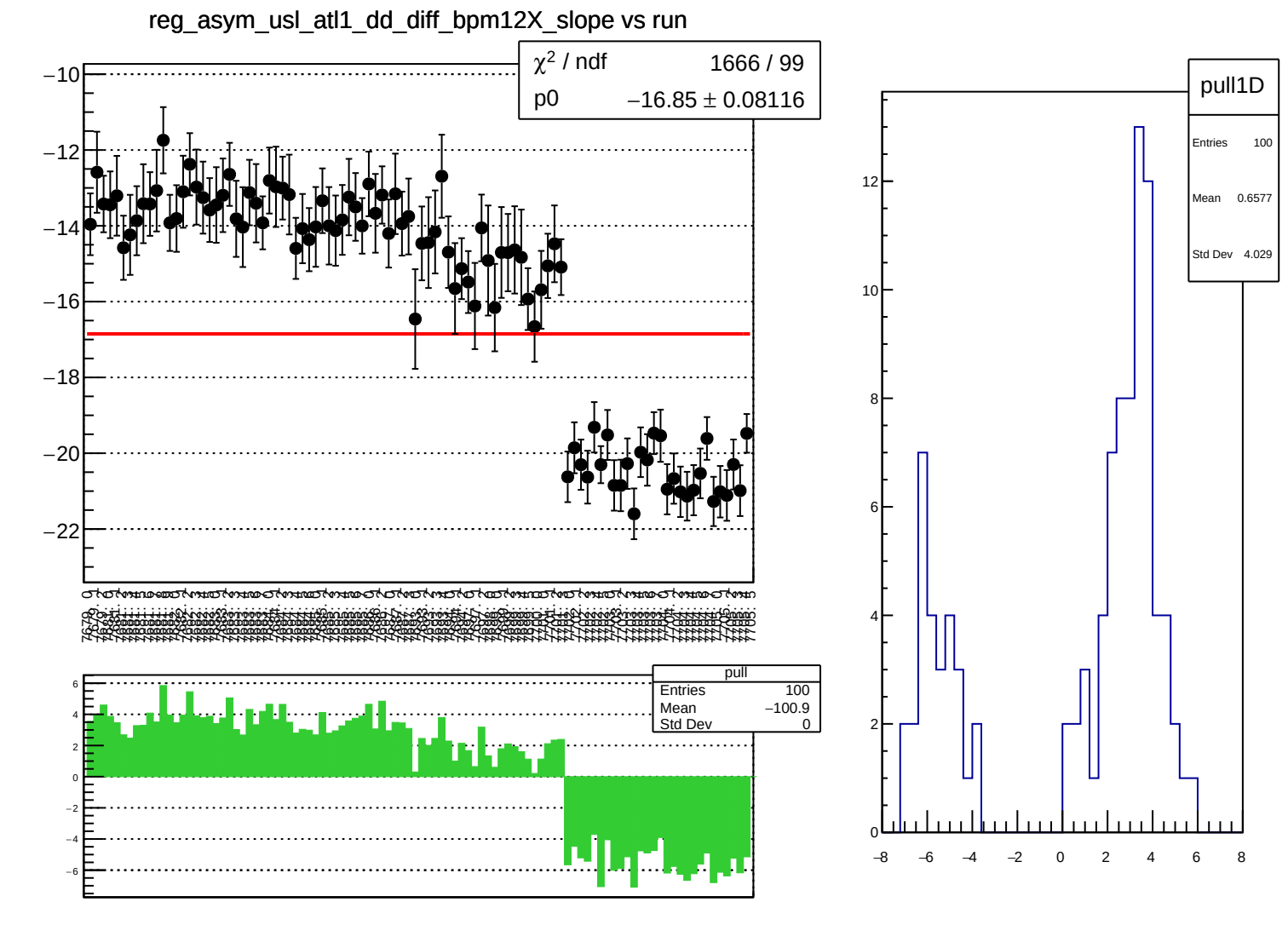

pull1D
Entries 100
Mean 0.07882
Std Dev 0.6648

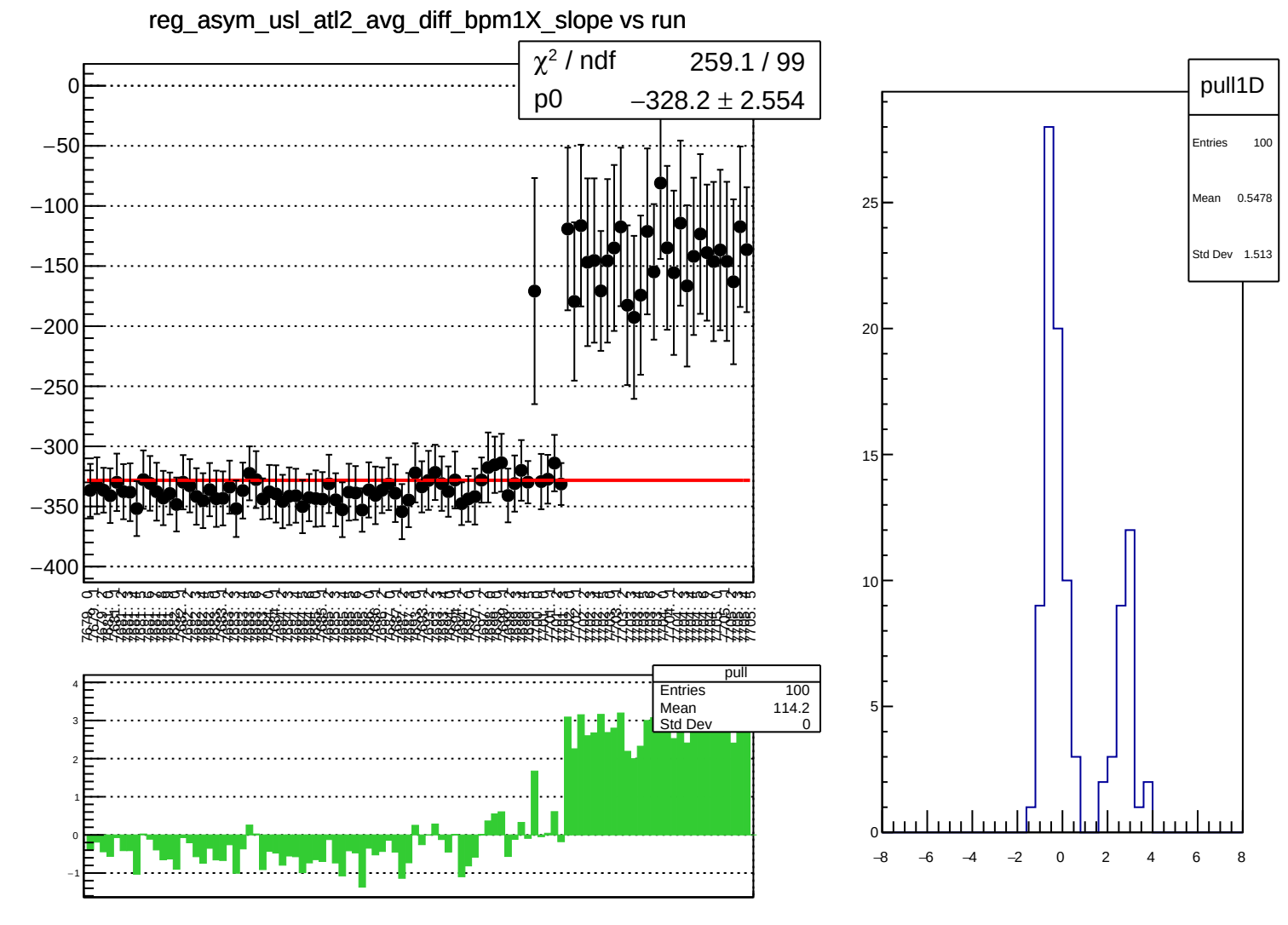

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 68.27 / 99
p0 −22.12 ± 0.6733
pull
Entries 100
Mean 199.9
Std Dev 0

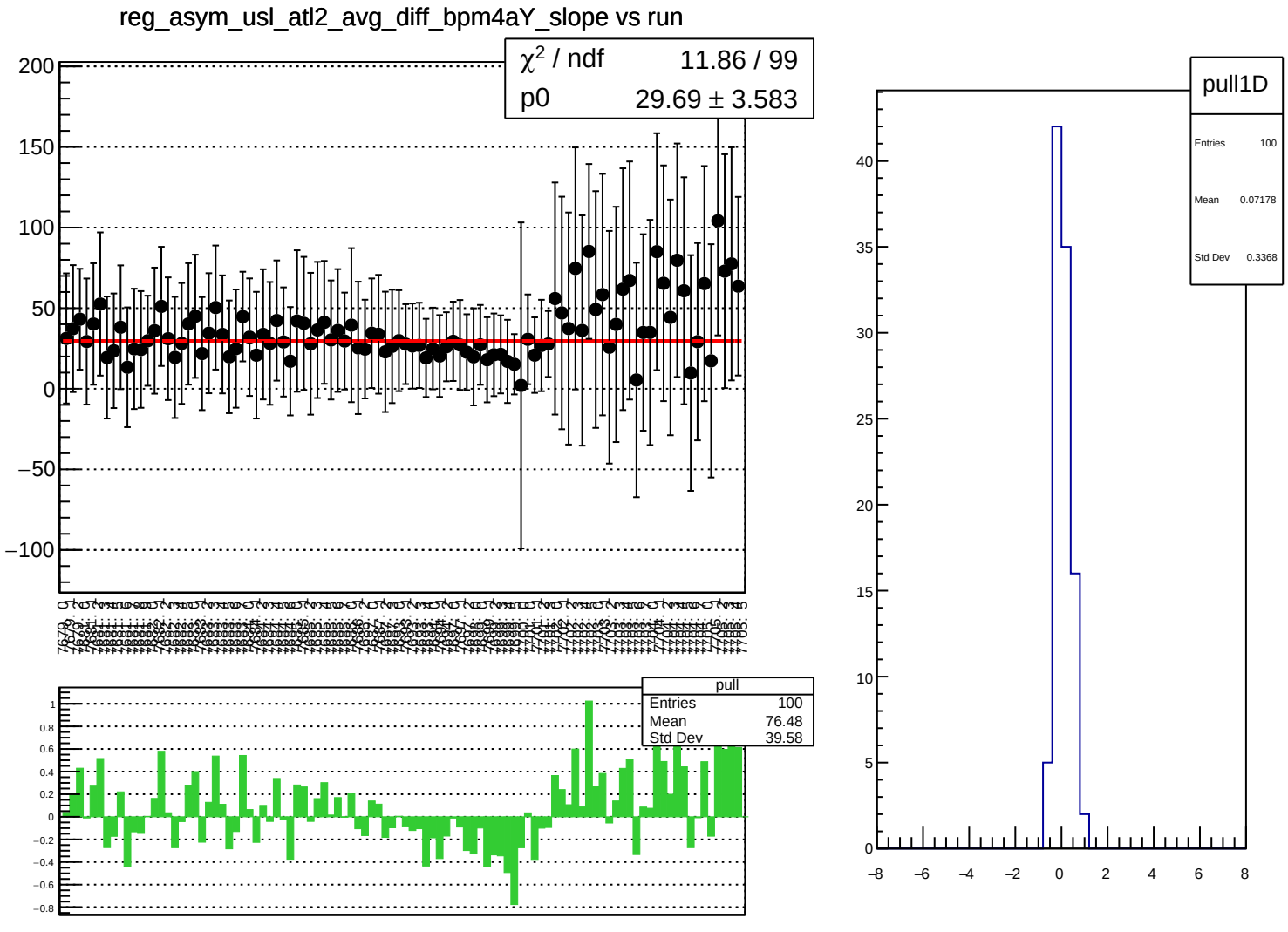

pull1D
Entries 100
Mean 0.05144
Std Dev 0.8247

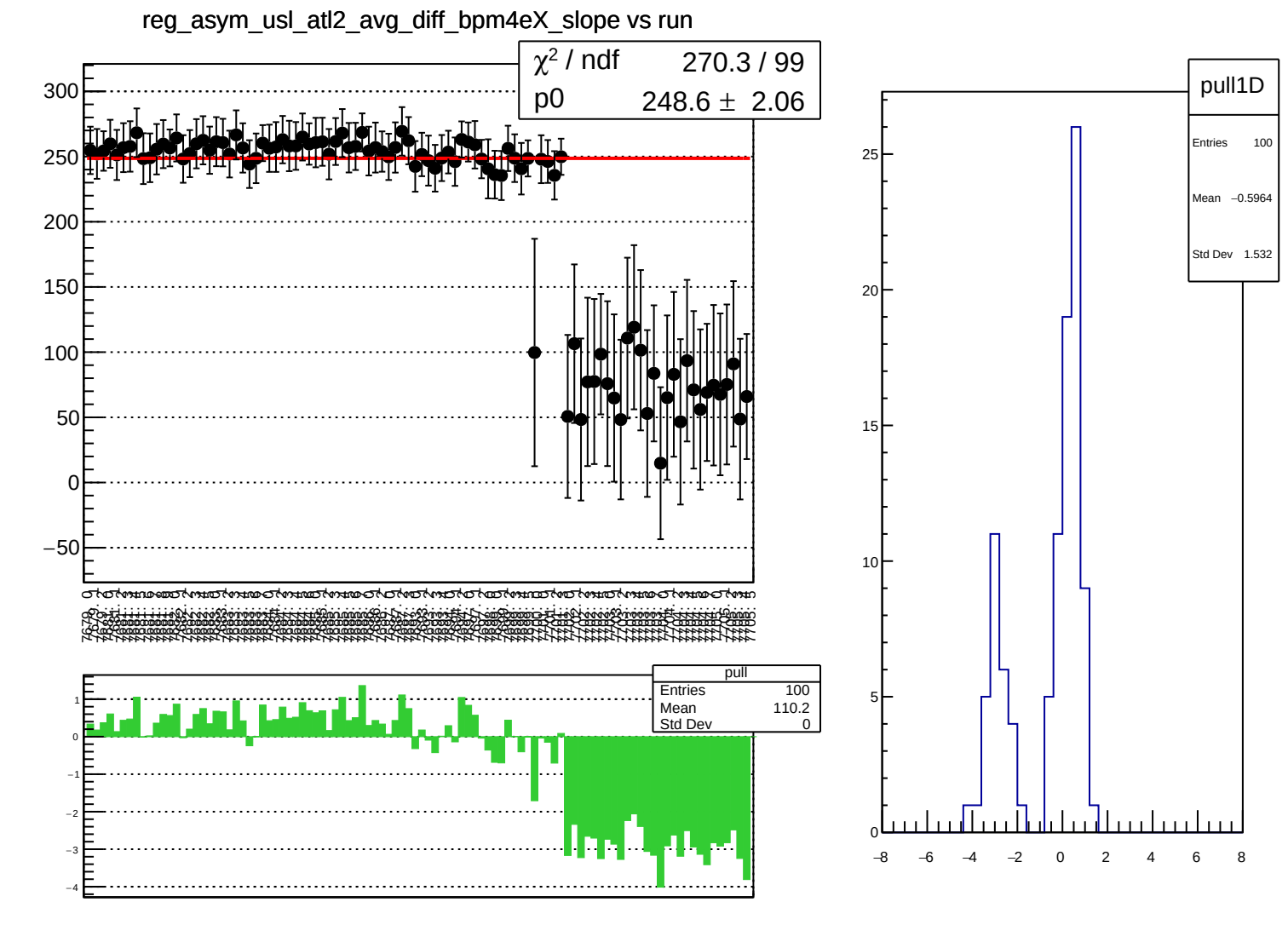

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 41.75 / 99
p0 11.81 ± 1.724
pull
Entries 100
Mean 85.7
Std Dev 48.84

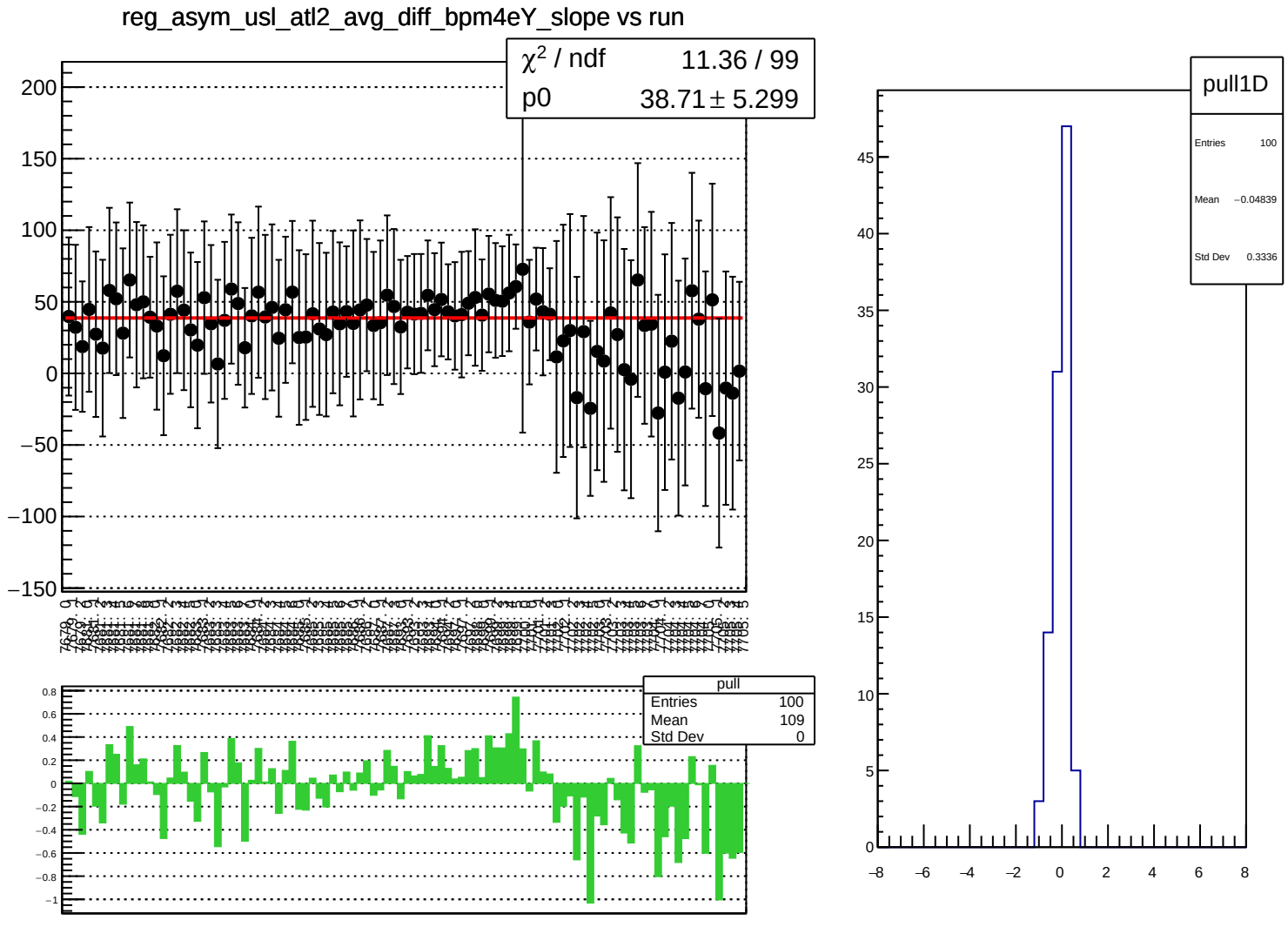

pull1D
Entries 100
Mean −0.05314
Std Dev 0.644

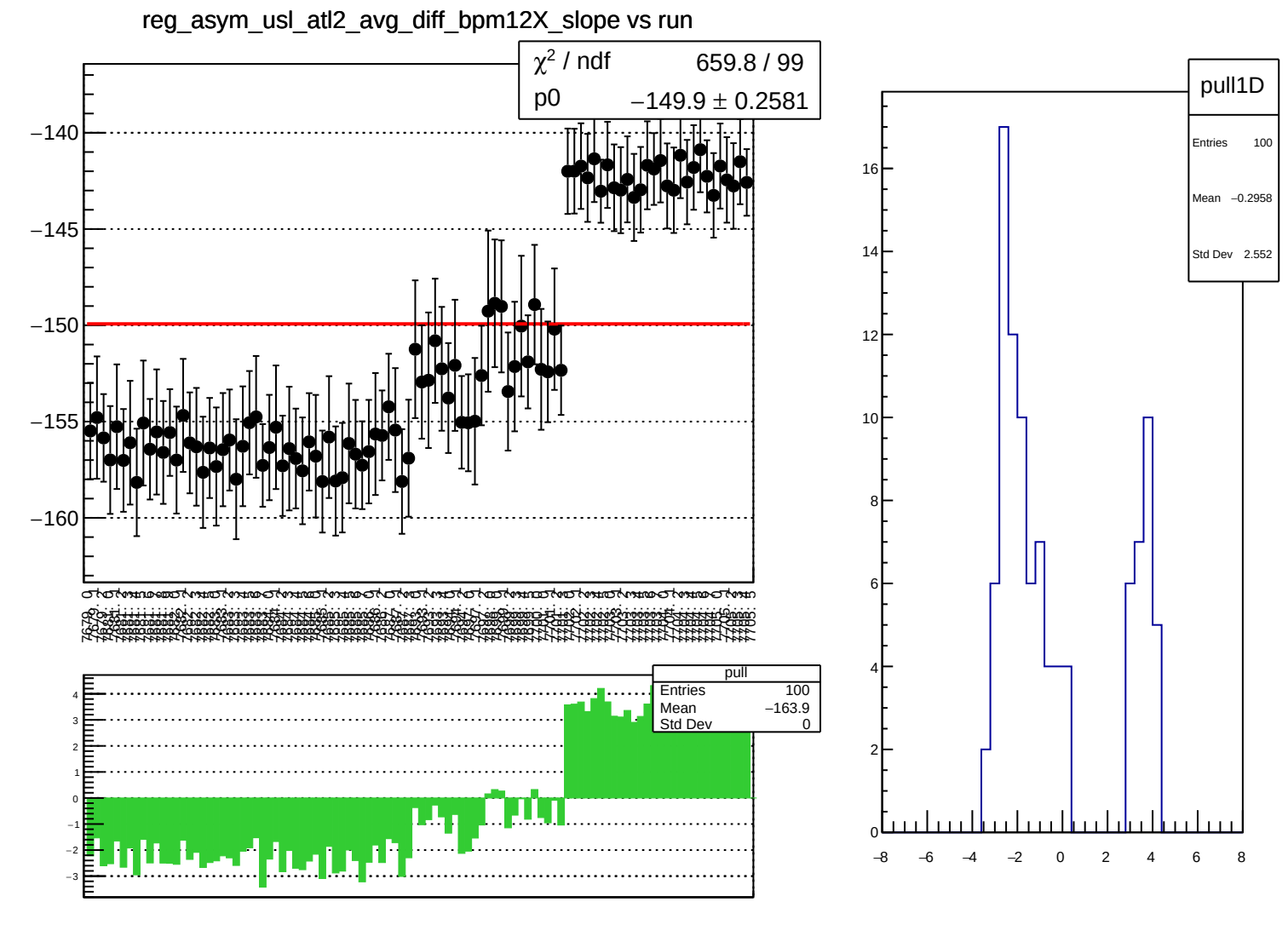

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 1666 / 99
p0 −16.85 ± 0.08116
pull
Entries 100
Mean −100.9
Std Dev 0
pull1D
Entries 100
Mean 0.6577
Std Dev 4.029

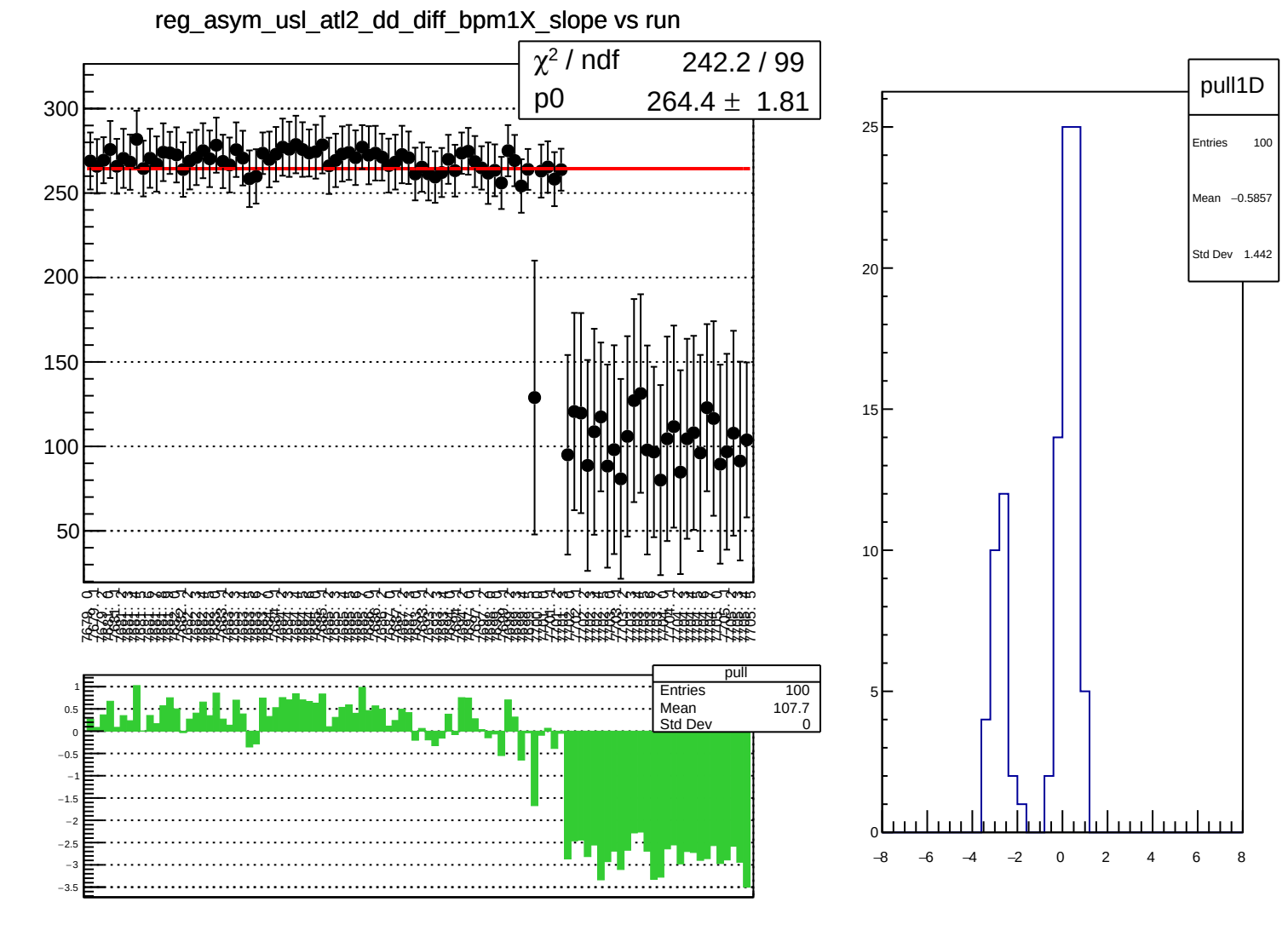

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 259.1 / 99
p0 −328.2 ± 2.554
pull
Entries 100
Mean 114.2
Std Dev 0
pull1D
Entries 100
Mean 0.5478
Std Dev 1.513

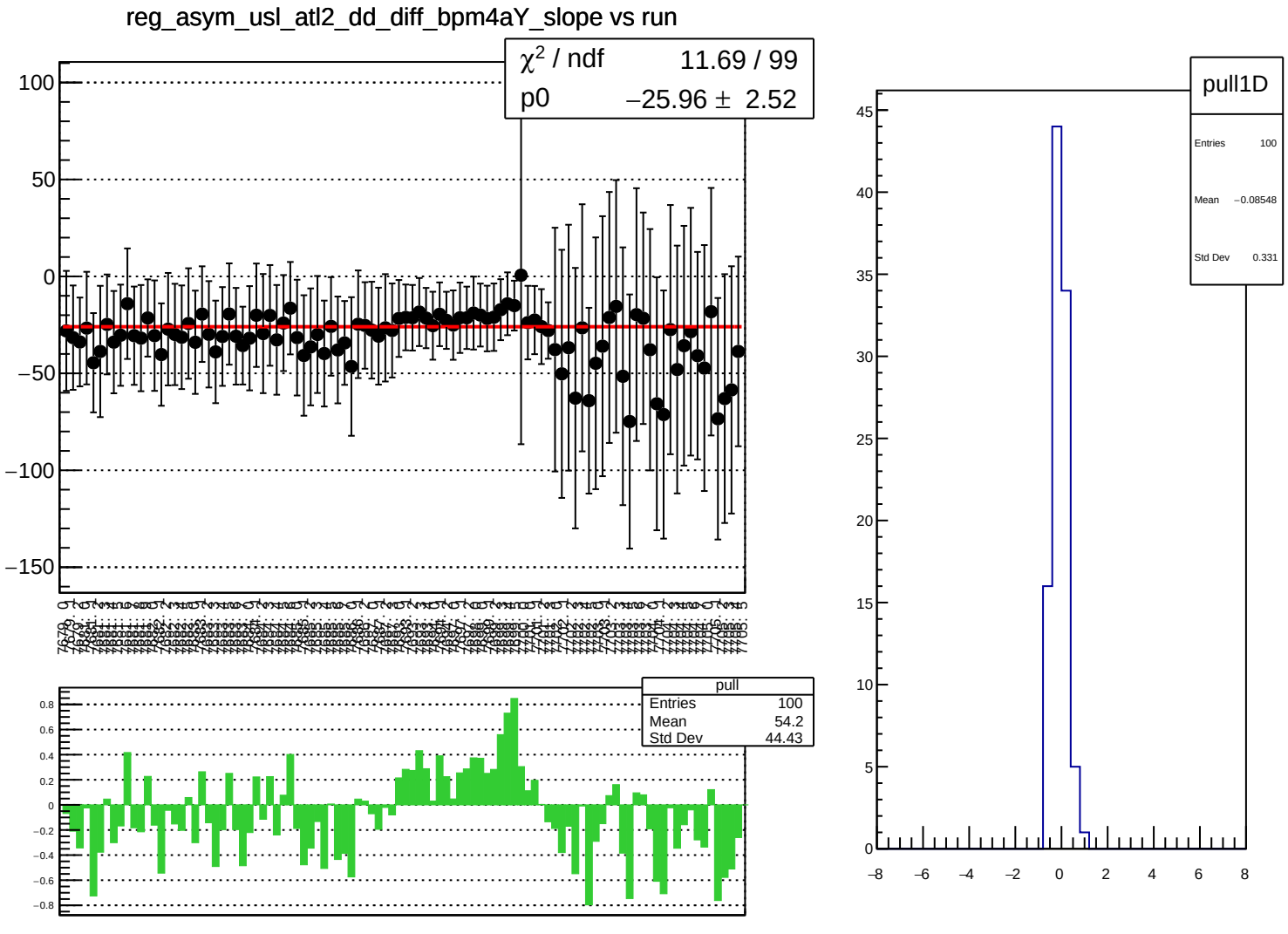

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.86 / 99
p0 29.69 ± 3.583
200
150
100
50
0
−50
−100
pull
Entries 100
Mean 76.48
Std Dev 39.58
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 100
Mean 0.07178
Std Dev 0.3368
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

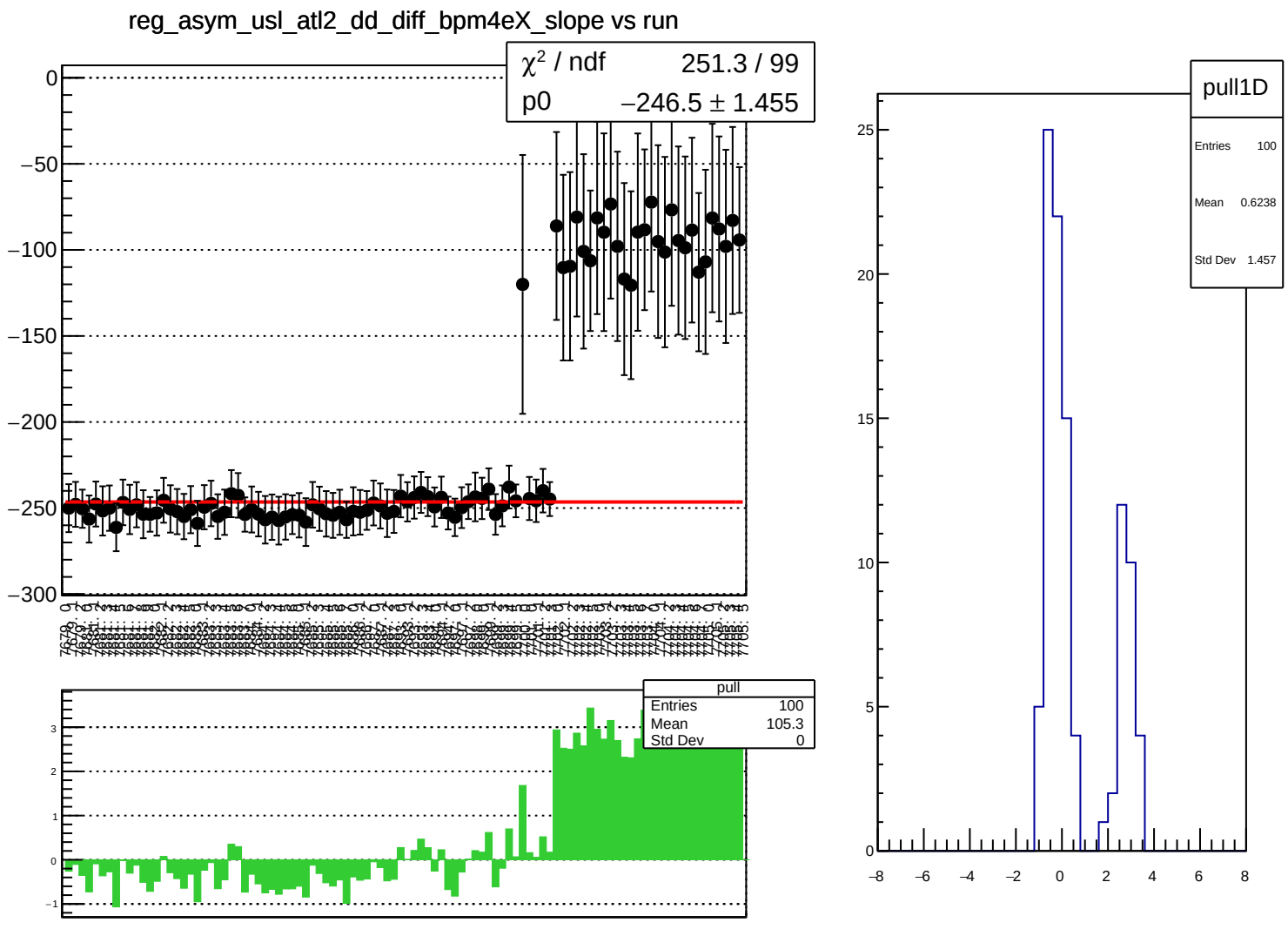

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 270.3 / 99
p0 248.6 ± 2.06
pull
Entries 100
Mean 110.2
Std Dev 0
pull1D
Entries 100
Mean −0.5964
Std Dev 1.532

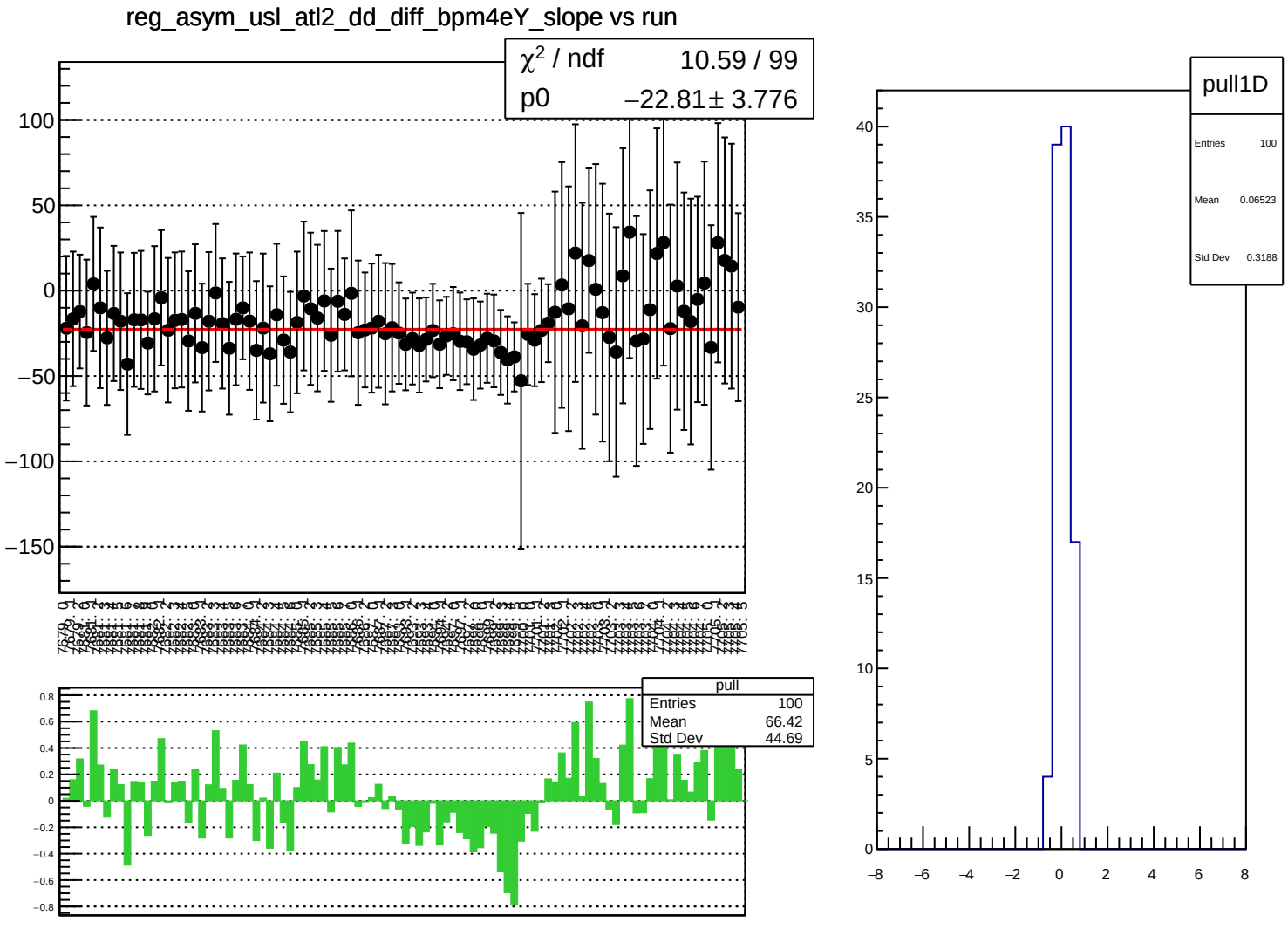

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.36 / 99
p0 38.71 ± 5.299
pull
Entries 100
Mean 109
Std Dev 0
pull1D
Entries 100
Mean −0.04839
Std Dev 0.3336

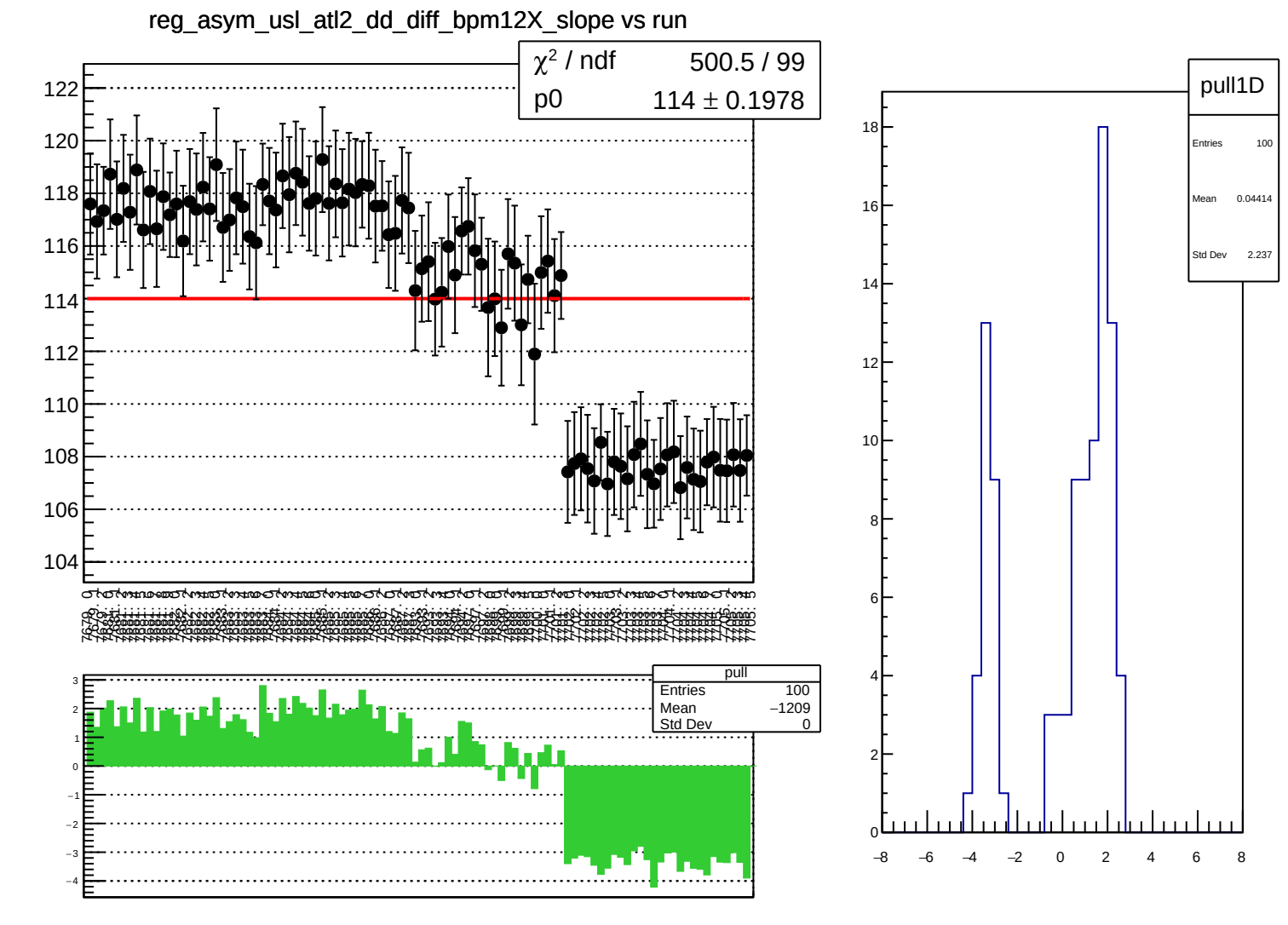

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 659.8 / 99
p0 −149.9 ± 0.2581
−140
−145
−150
−155
−160
pull
Entries 100
Mean −163.9
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean −0.2958
Std Dev 2.552
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

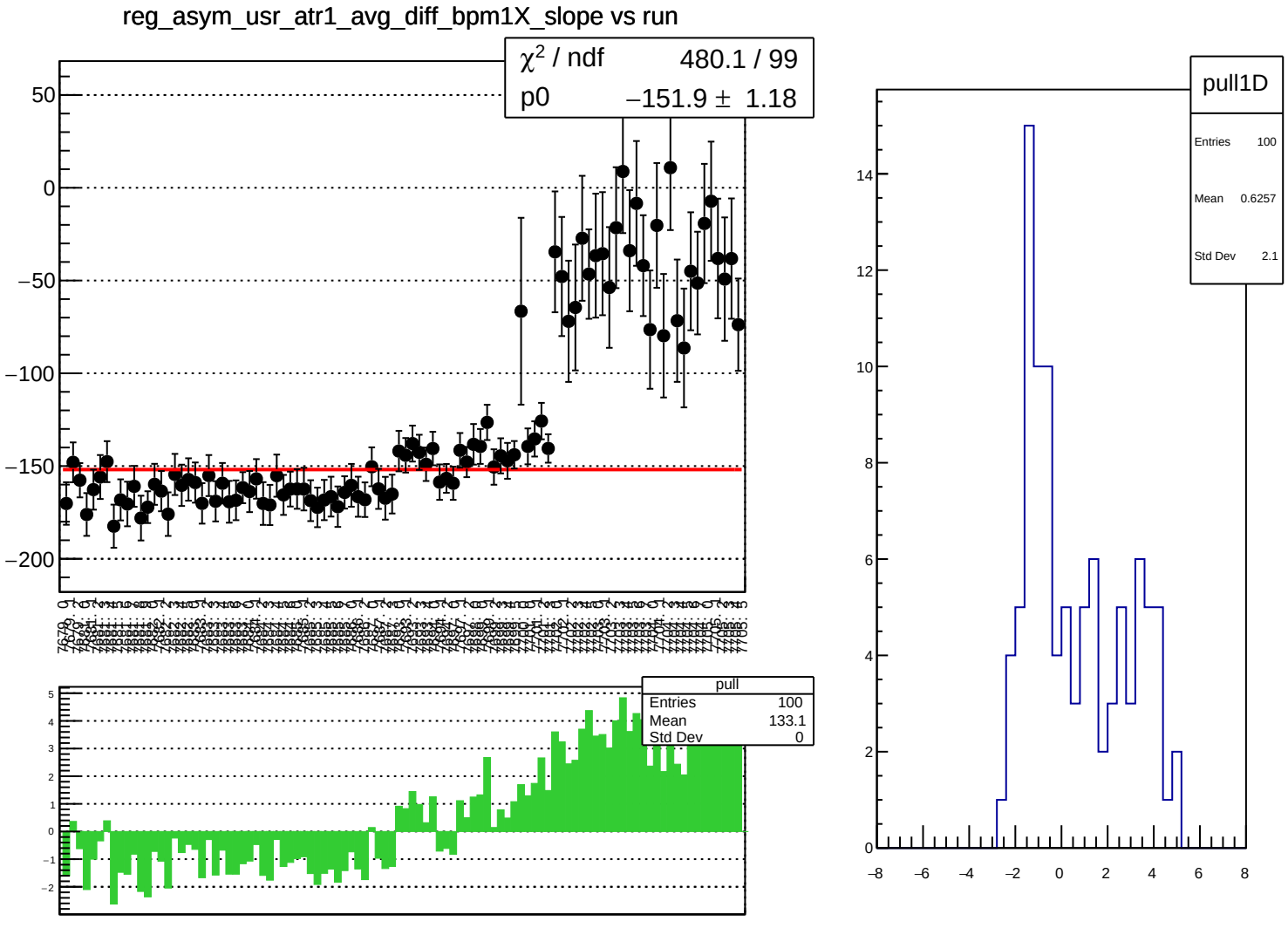

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 242.2 / 99
p0 264.4 ± 1.81
300
250
200
150
100
50
pull
Entries 100
Mean 107.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
pull1D
Entries 100
Mean −0.5857
Std Dev 1.442
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

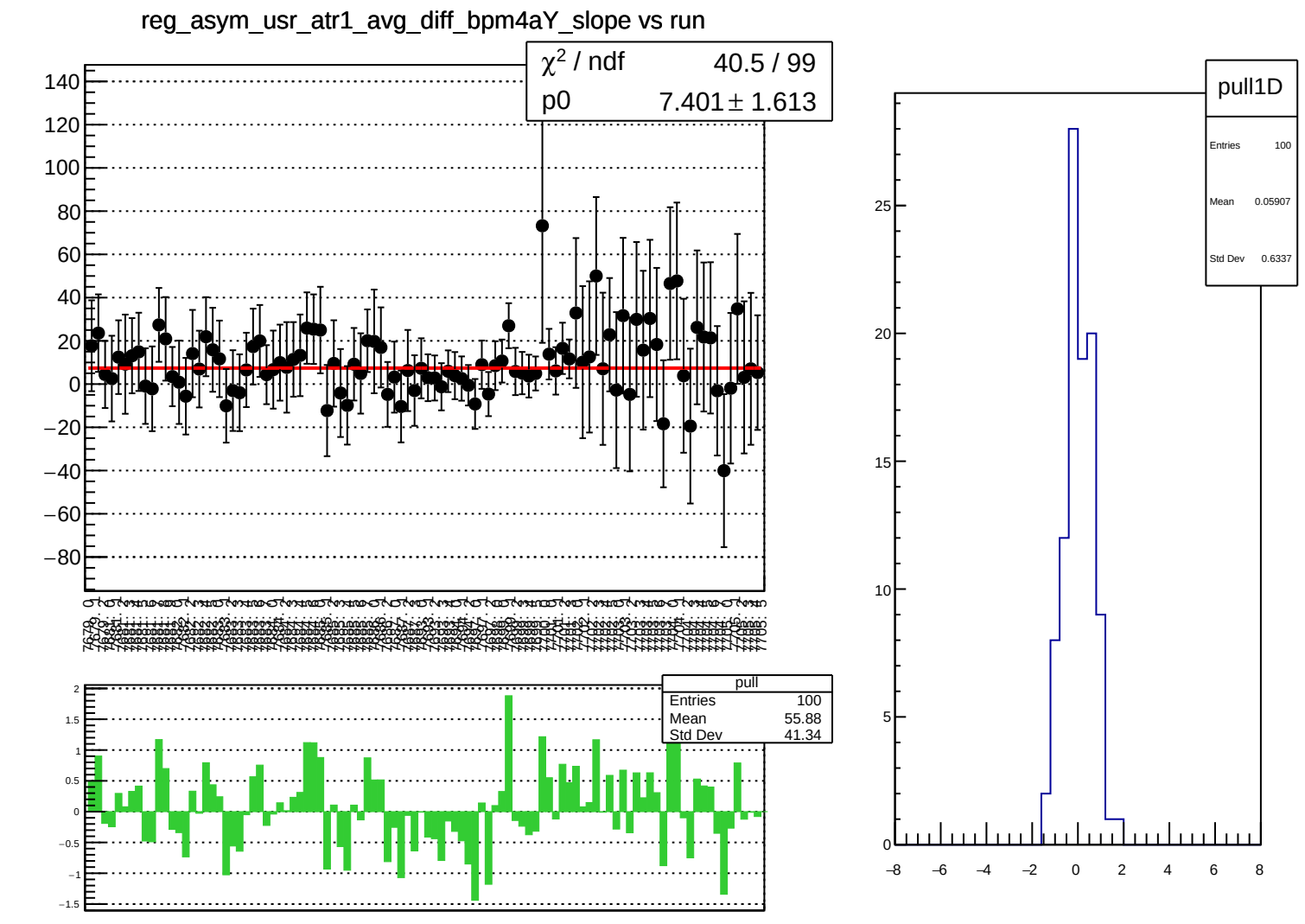

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.69 / 99
p0 −25.96 ± 2.52
pull
Entries 100
Mean 54.2
Std Dev 44.43
pull1D
Entries 100
Mean −0.08548
Std Dev 0.331

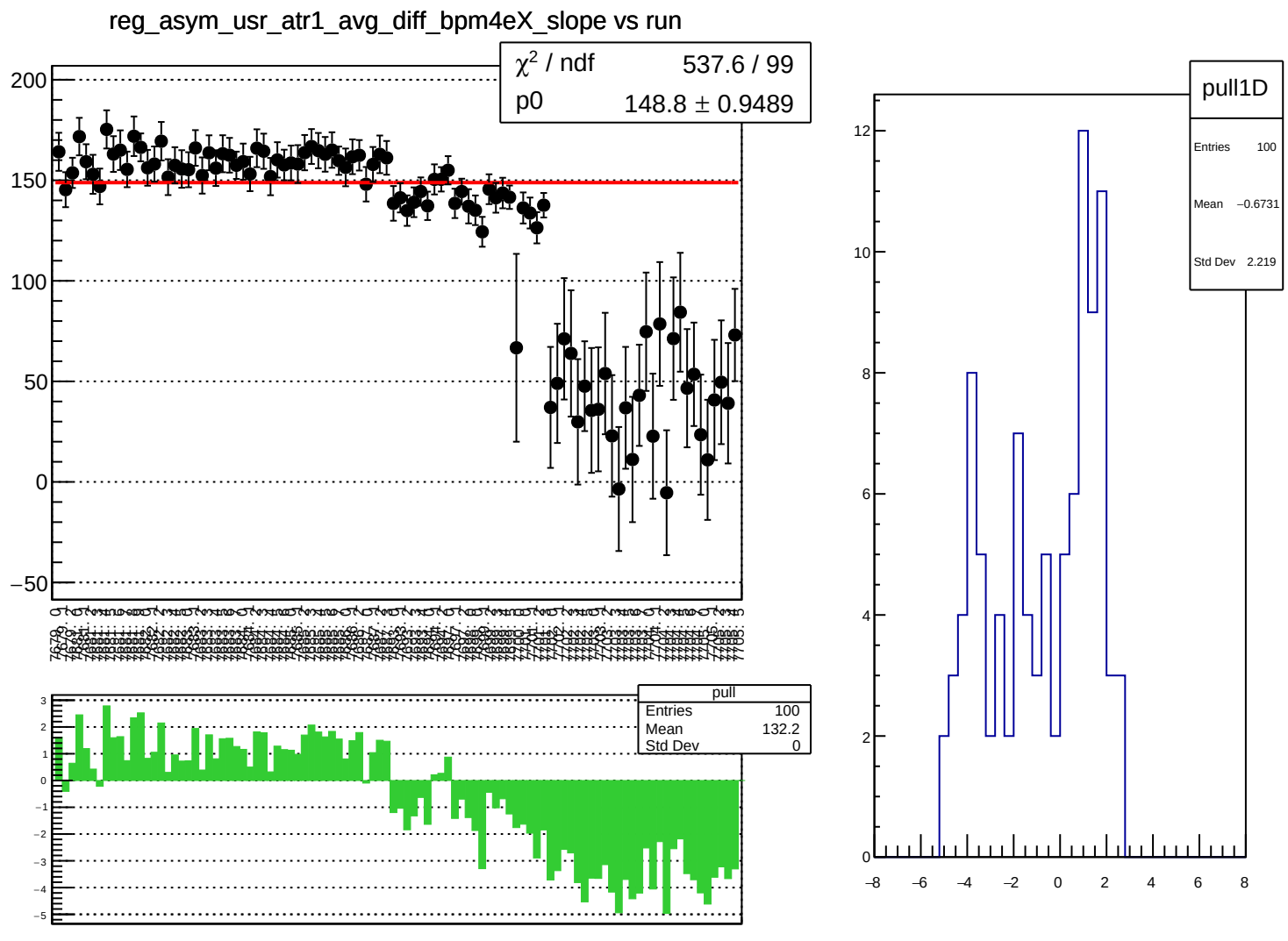

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 251.3 / 99
p0 −246.5 ± 1.455
pull
Entries 100
Mean 105.3
Std Dev 0
pull1D
Entries 100
Mean 0.6238
Std Dev 1.457

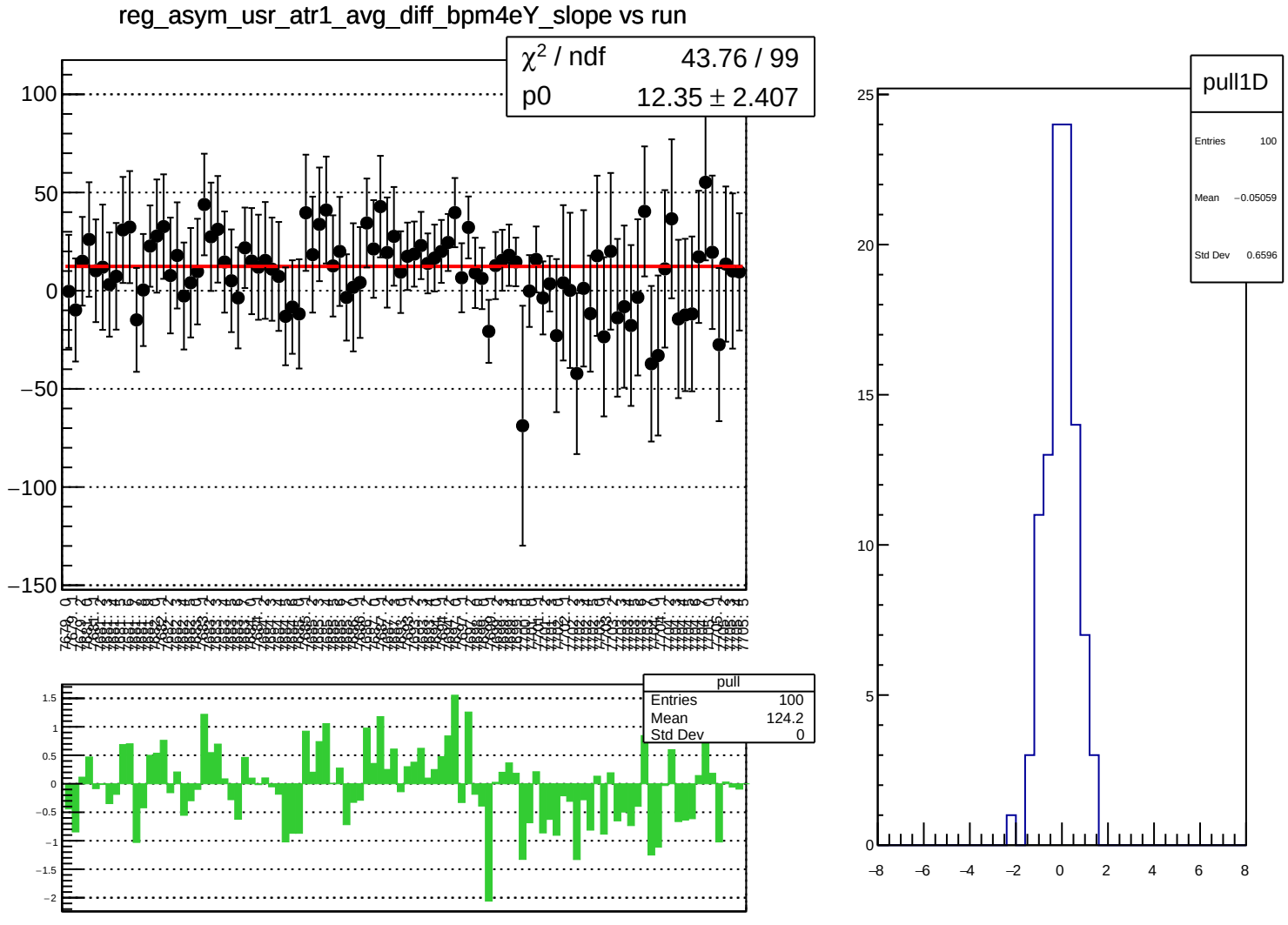

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.59 / 99
p0 −22.81 ± 3.776
pull
Entries 100
Mean 66.42
Std Dev 44.69
pull1D
Entries 100
Mean 0.06523
Std Dev 0.3188

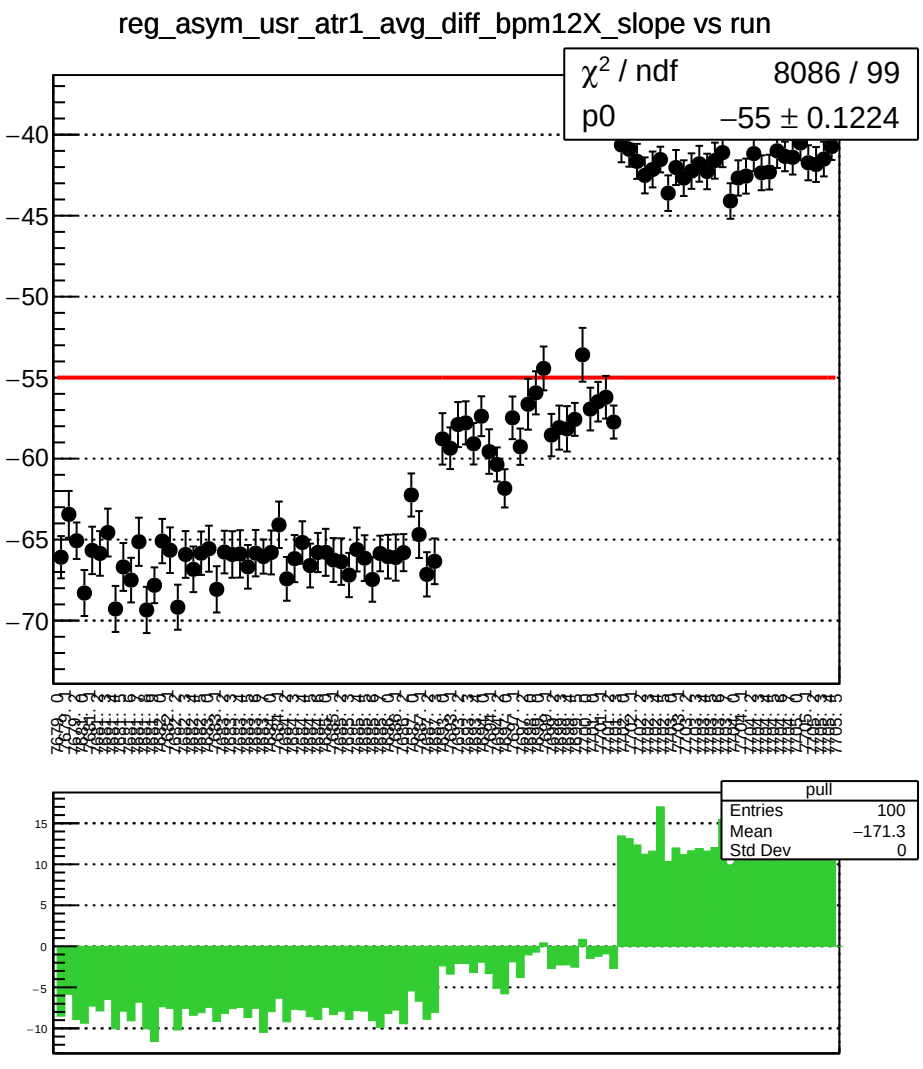

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 500.5 / 99
p0 114 ± 0.1978
pull
Entries 100
Mean −1209
Std Dev 0
pull1D
Entries 100
Mean 0.04414
Std Dev 2.237

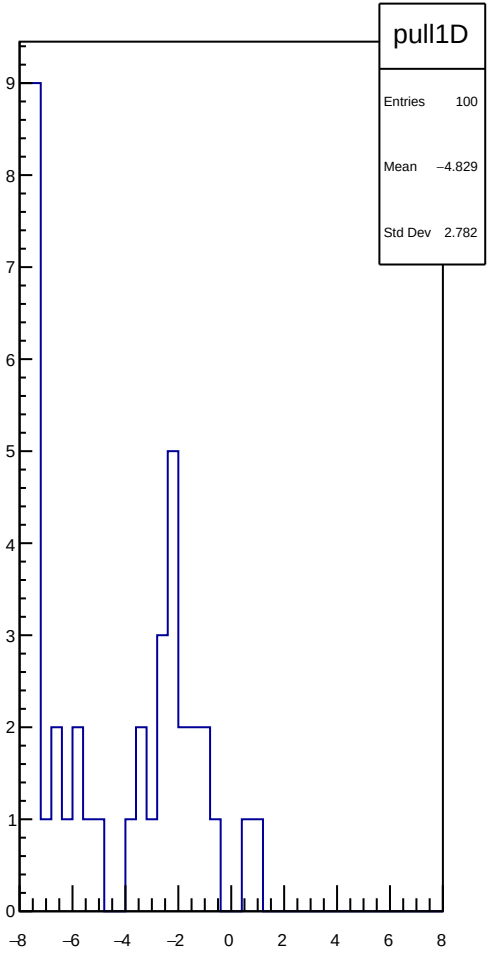

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 480.1 / 99
p0 −151.9 ± 1.18
50
0
−50
−100
−150
−200
pull
Entries 100
Mean 133.1
Std Dev 0
5
4
3
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.6257
Std Dev 2.1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

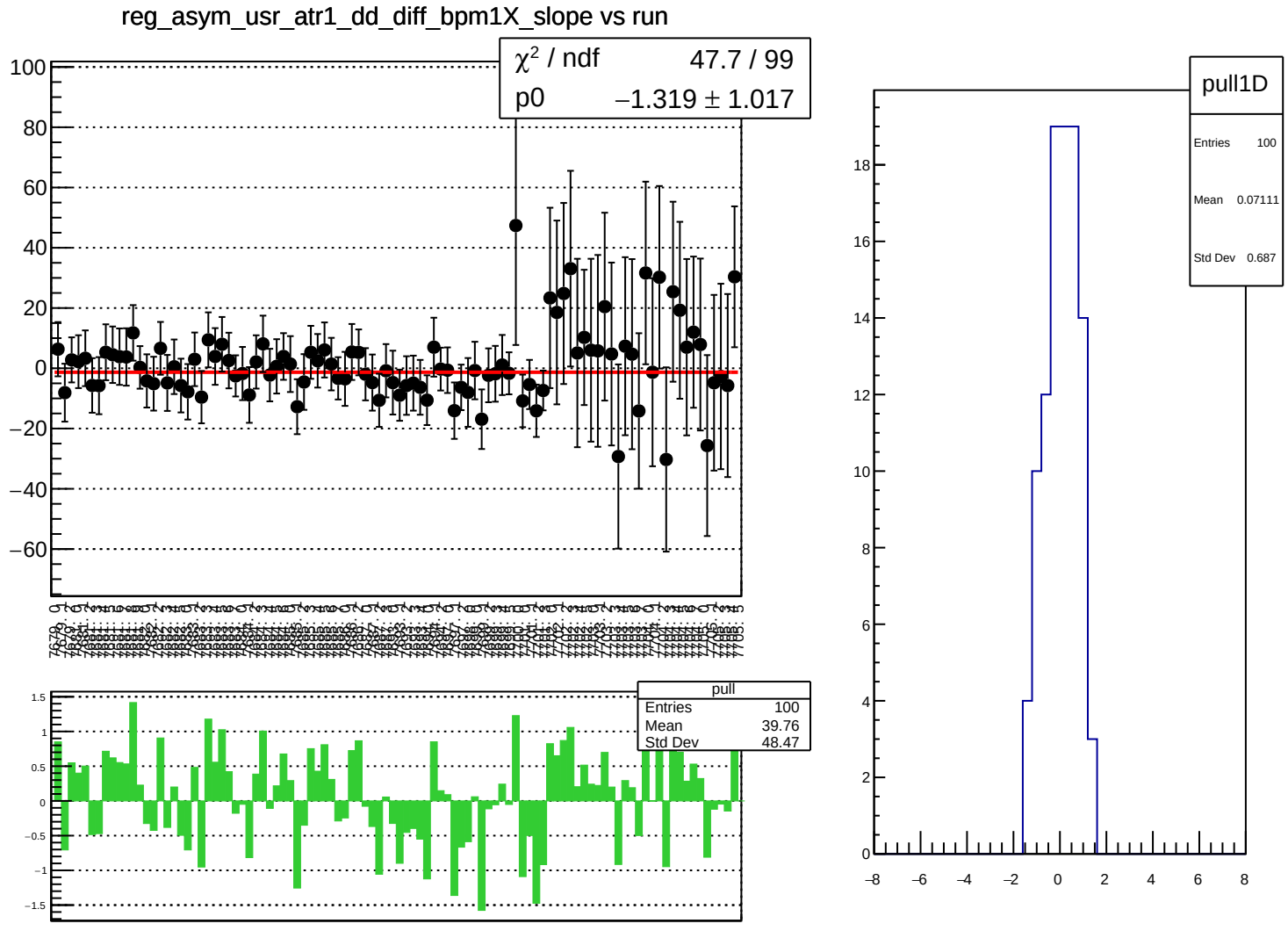

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 40.5 / 99
p0 7.401 ± 1.613
pull
Entries 100
Mean 55.88
Std Dev 41.34
pull1D
Entries 100
Mean 0.05907
Std Dev 0.6337

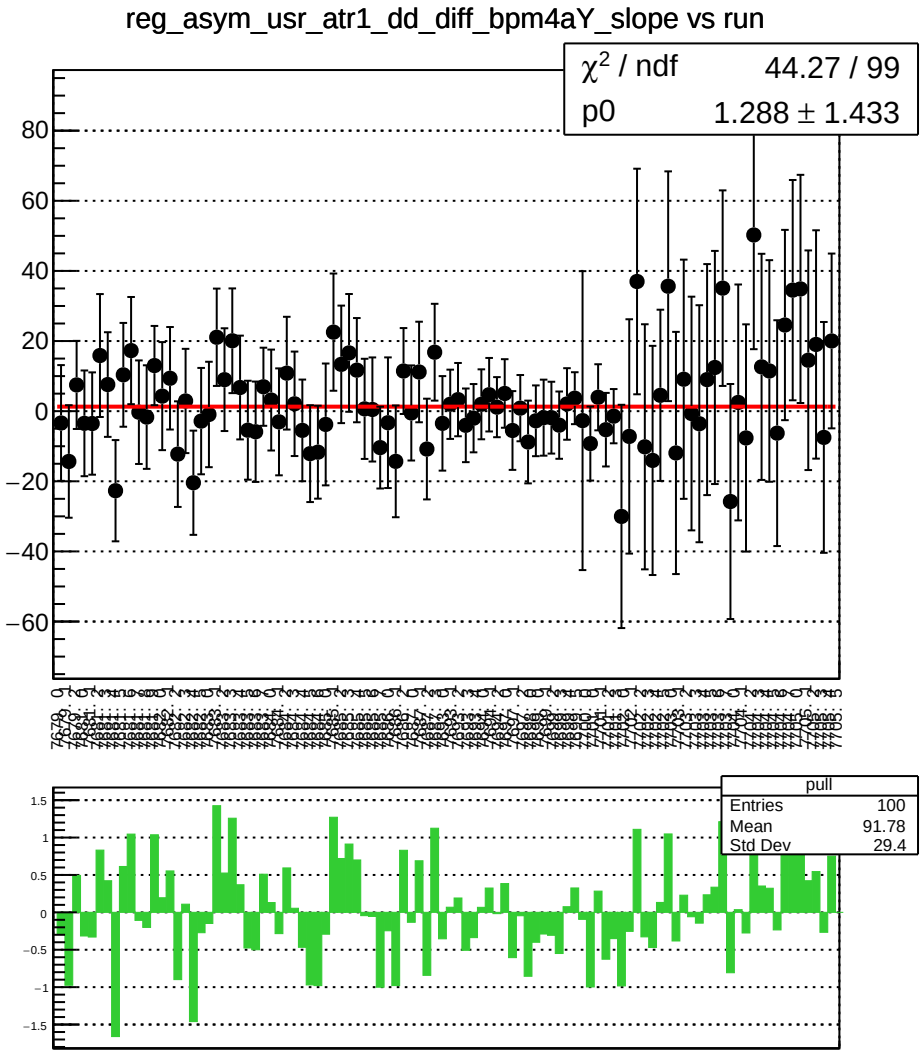

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 537.6 / 99
p0 148.8 ± 0.9489
200
150
100
50
0
−50
pull
Entries 100
Mean 132.2
Std Dev 0
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 100
Mean −0.6731
Std Dev 2.219
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

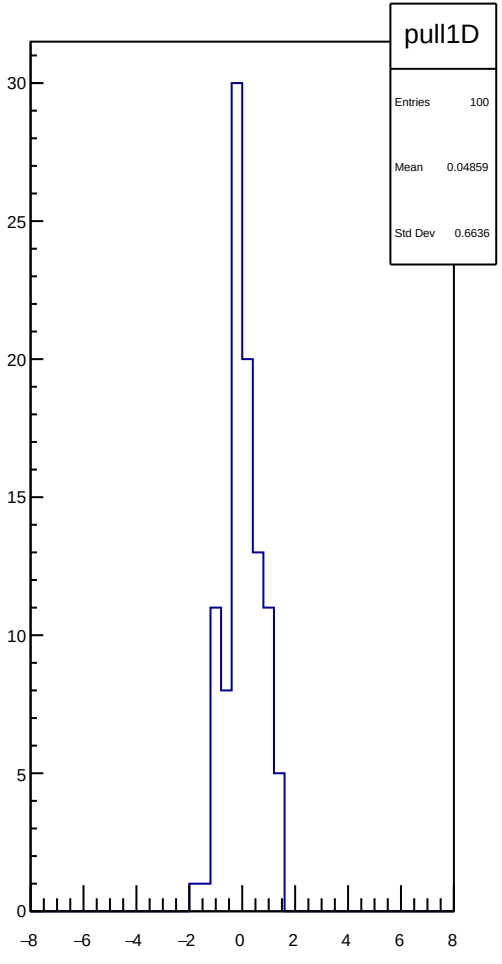

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 43.76 / 99
p0 12.35 ± 2.407
100
50
0
−50
−100
−150
pull
Entries 100
Mean 124.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 100
Mean −0.05059
Std Dev 0.6596
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

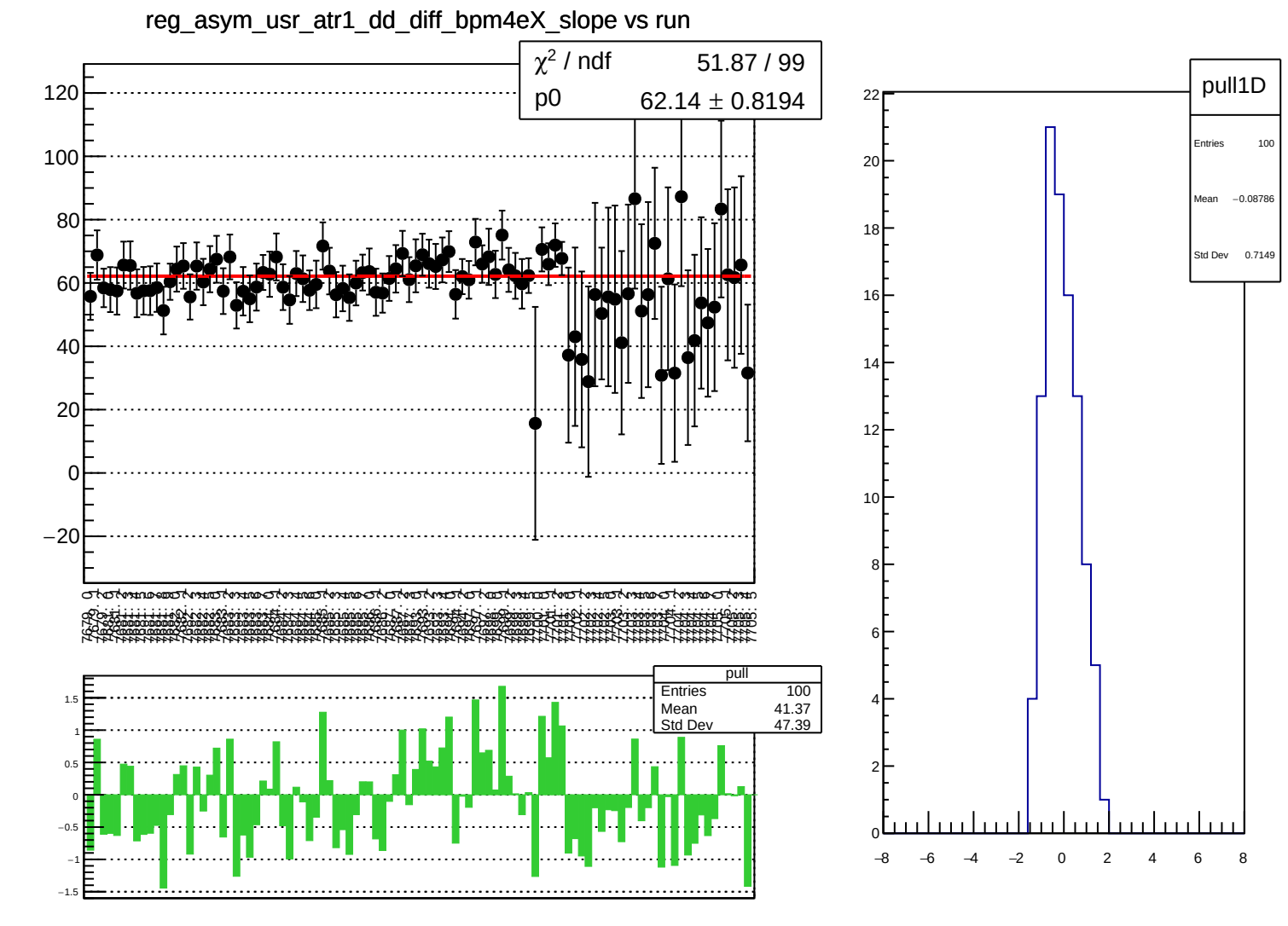

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 8086 / 99
p0 −55 ± 0.1224
−40
−45
−50
−55
−60
−65
−70
pull
Entries 100
Mean −171.3
Std Dev 0
15
10
5
0
−5
−10

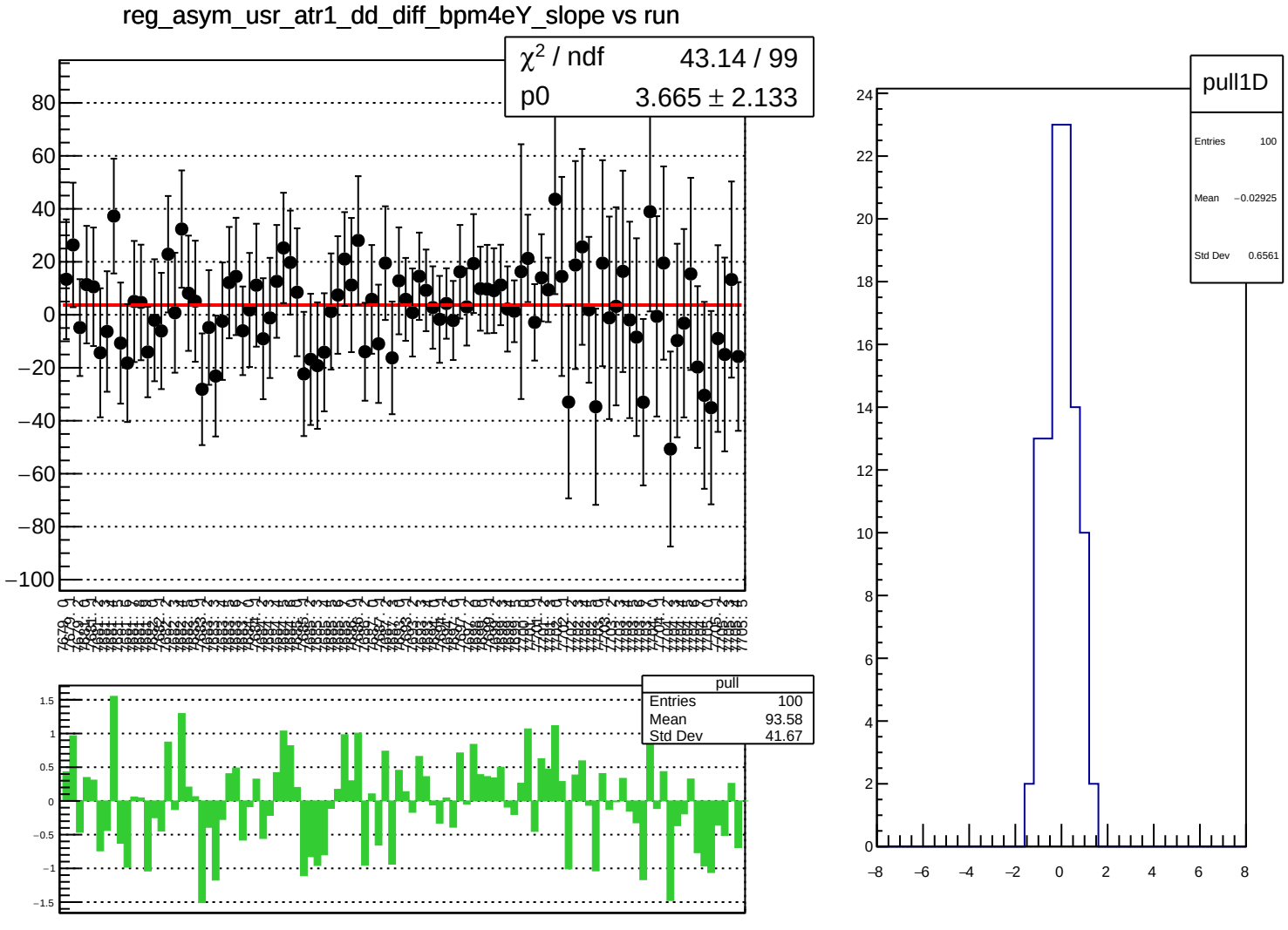

pull1D
Entries 100
Mean −4.829
Std Dev 2.782
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

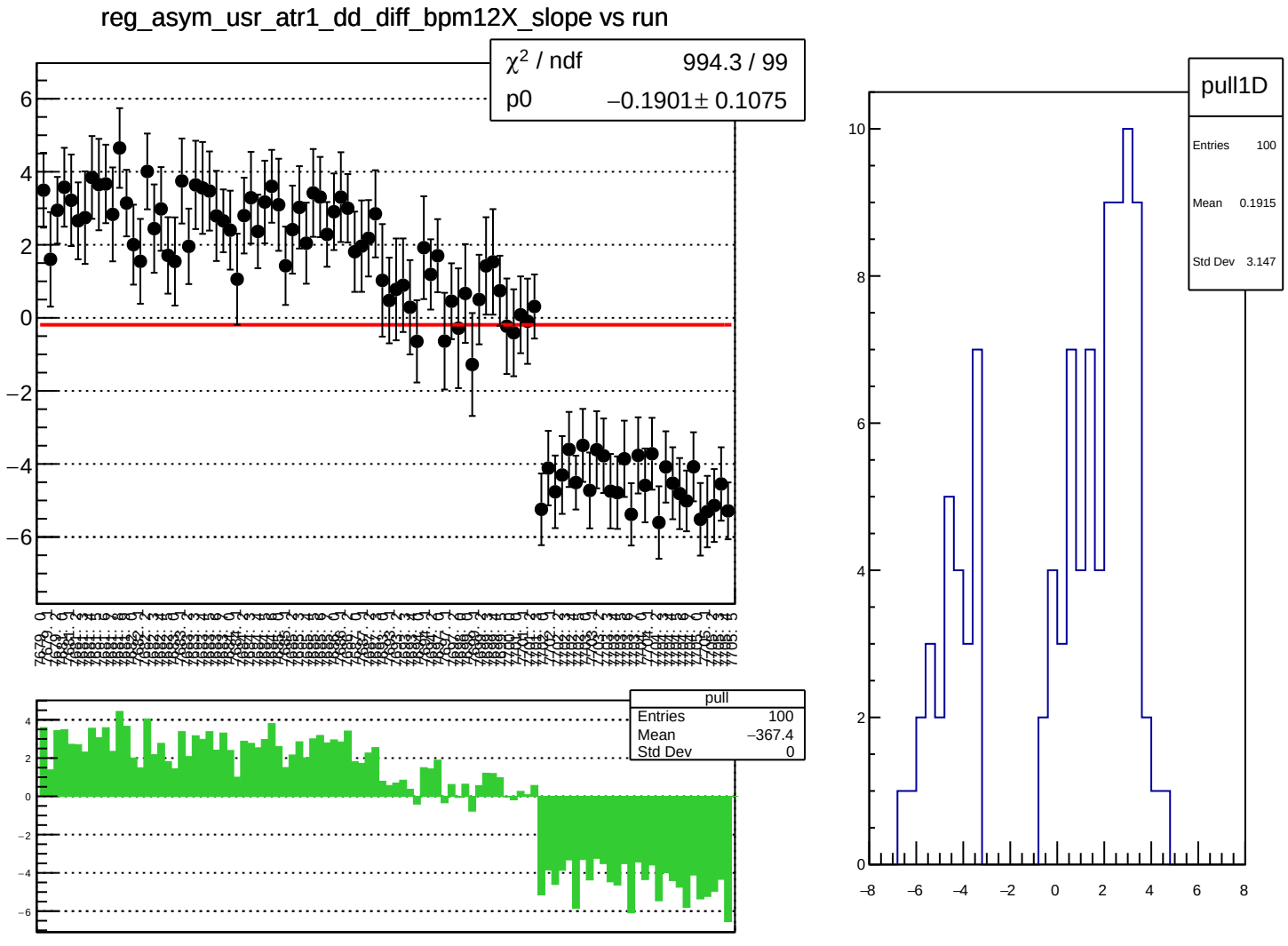

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 47.7 / 99
p0 −1.319 ± 1.017
pull
Entries 100
Mean 39.76
Std Dev 48.47
pull1D
Entries 100
Mean 0.07111
Std Dev 0.687

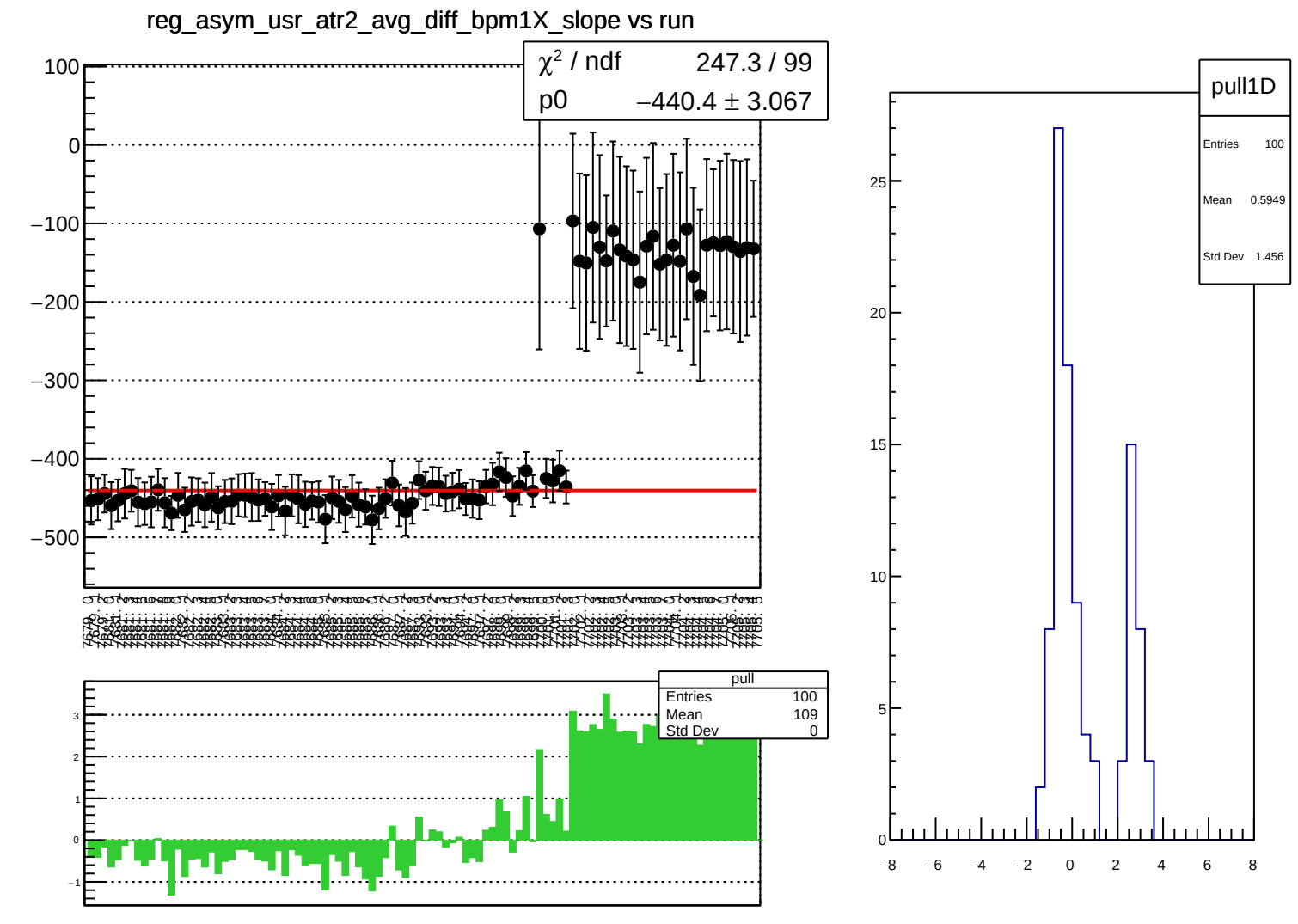

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 44.27 / 99
p0 1.288 ± 1.433
pull
Entries 100
Mean 91.78
Std Dev 29.4

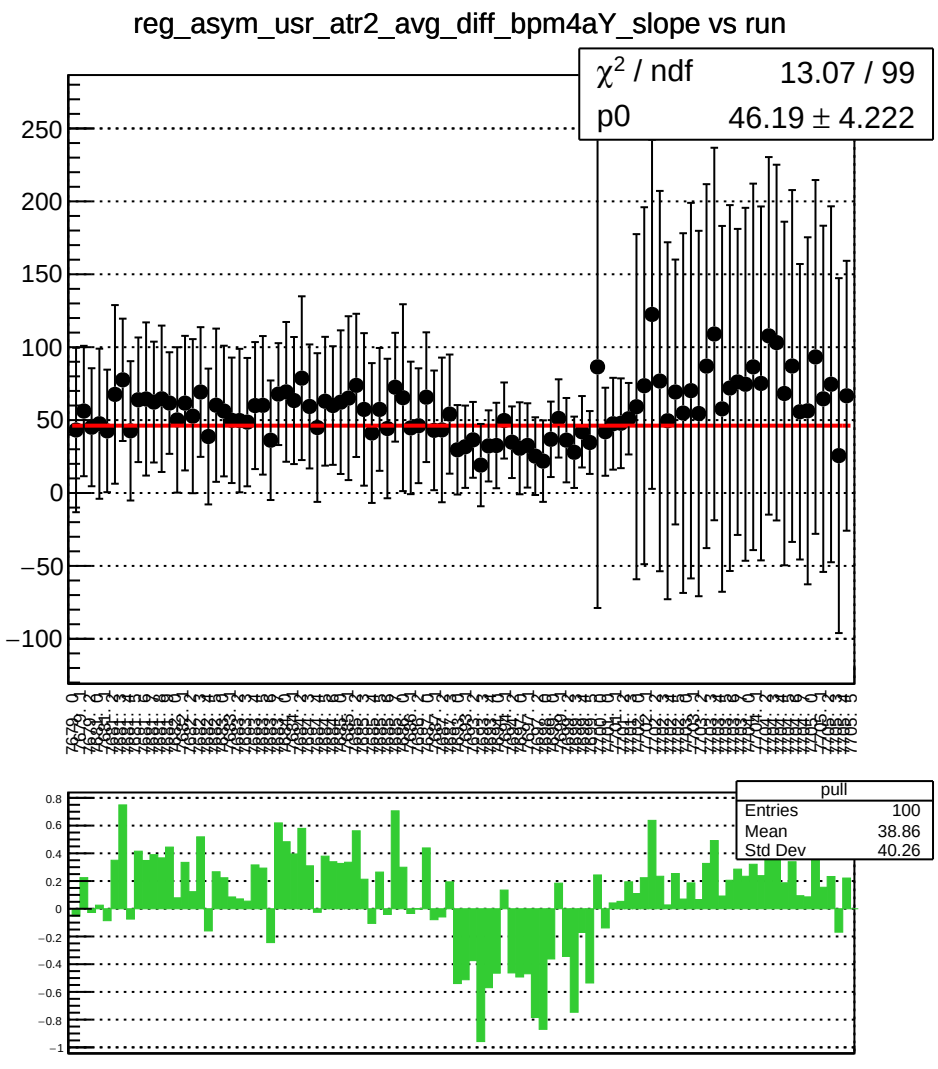

pull1D
Entries 100
Mean 0.04859
Std Dev 0.6636

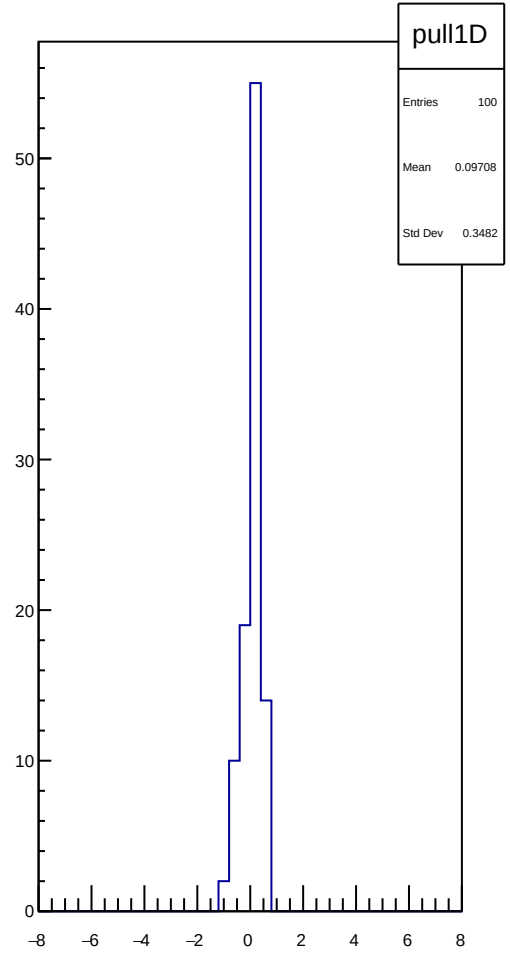

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 51.87 / 99
p0 62.14 ± 0.8194
pull
Entries 100
Mean 41.37
Std Dev 47.39
pull1D
Entries 100
Mean −0.08786
Std Dev 0.7149

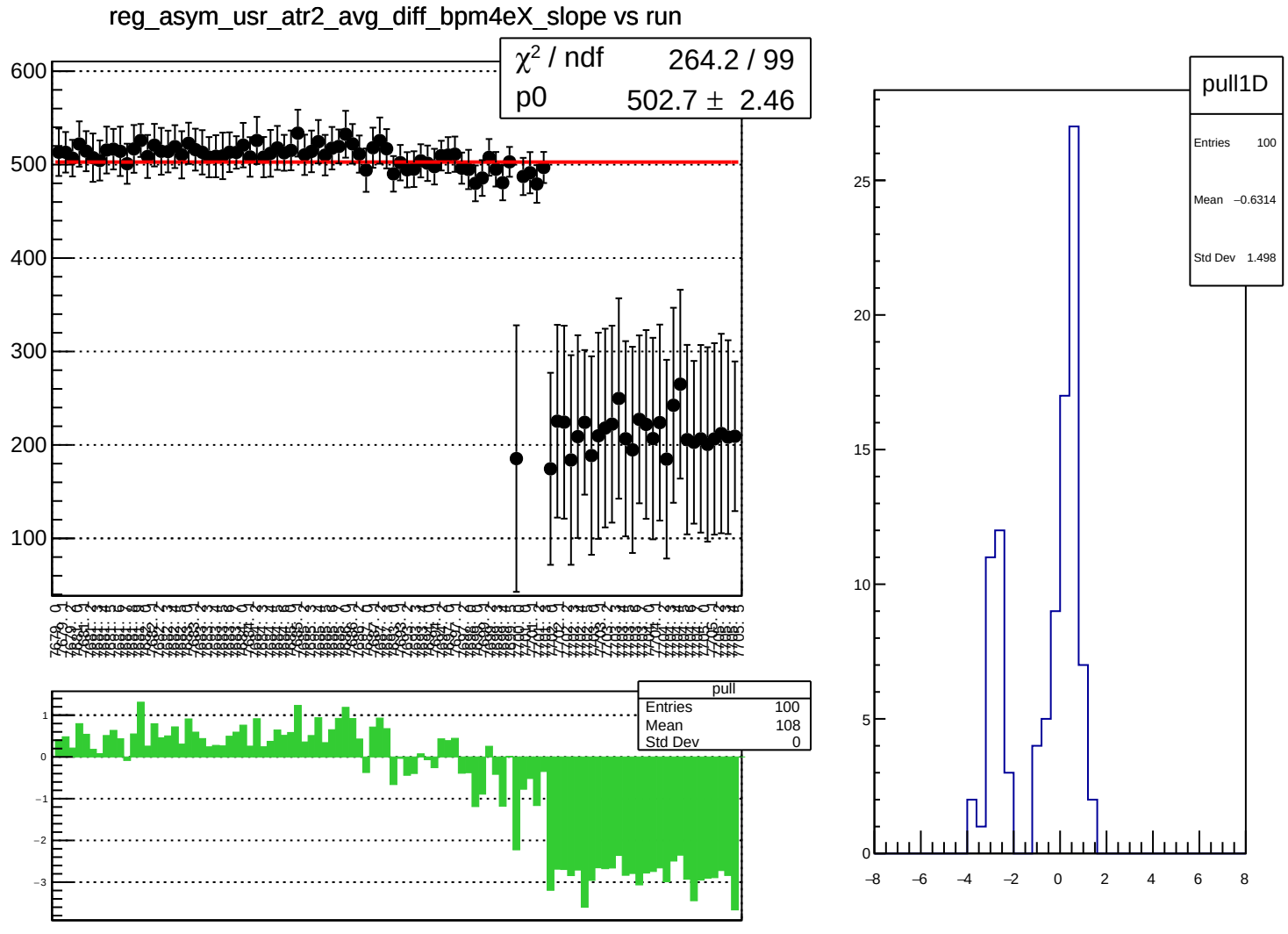

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 43.14 / 99
p0 3.665 ± 2.133
pull
Entries 100
Mean 93.58
Std Dev 41.67
pull1D
Entries 100
Mean −0.02925
Std Dev 0.6561

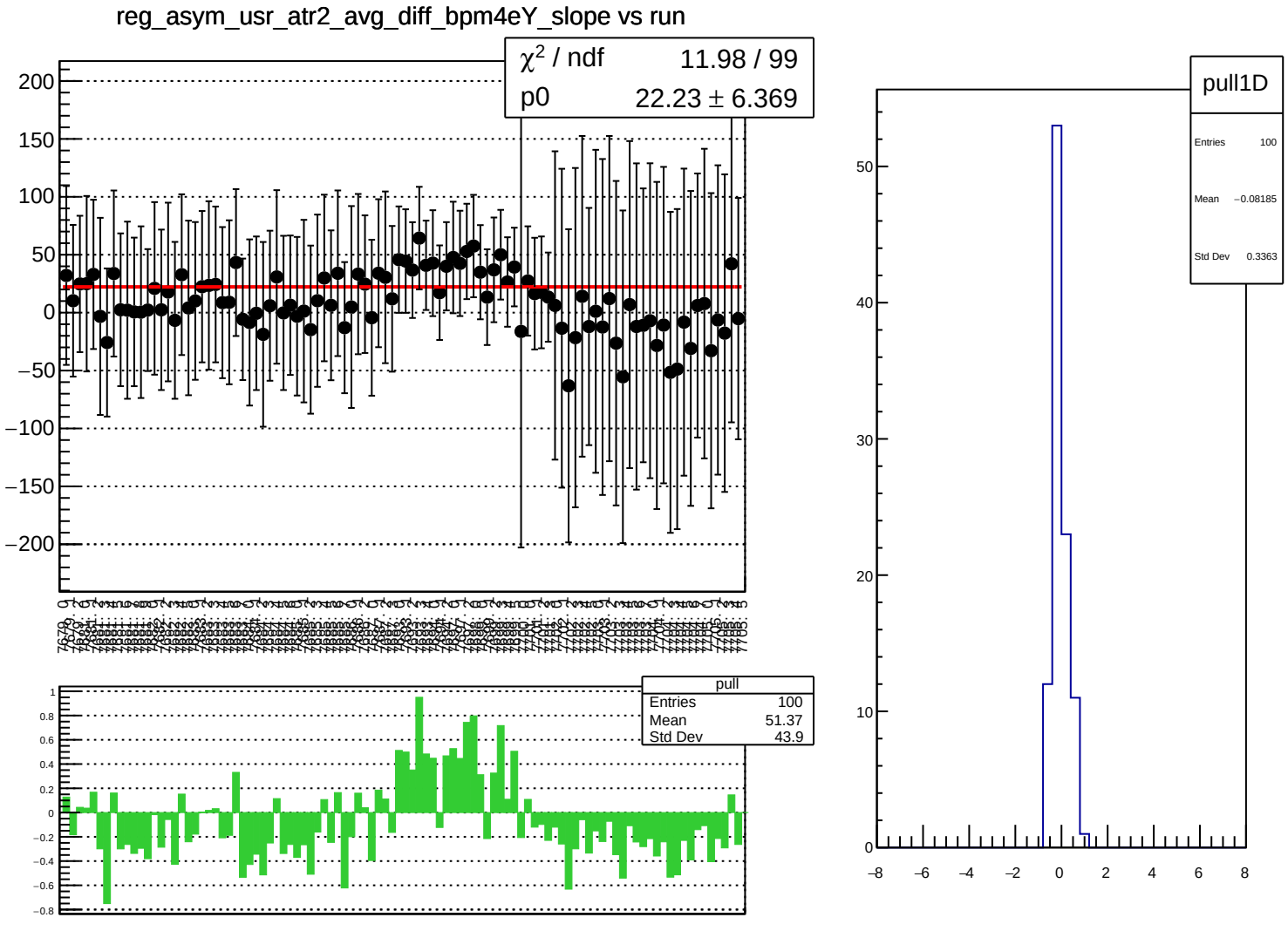

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 994.3 / 99
p0 −0.1901± 0.1075
pull
Entries 100
Mean −367.4
Std Dev 0
pull1D
Entries 100
Mean 0.1915
Std Dev 3.147

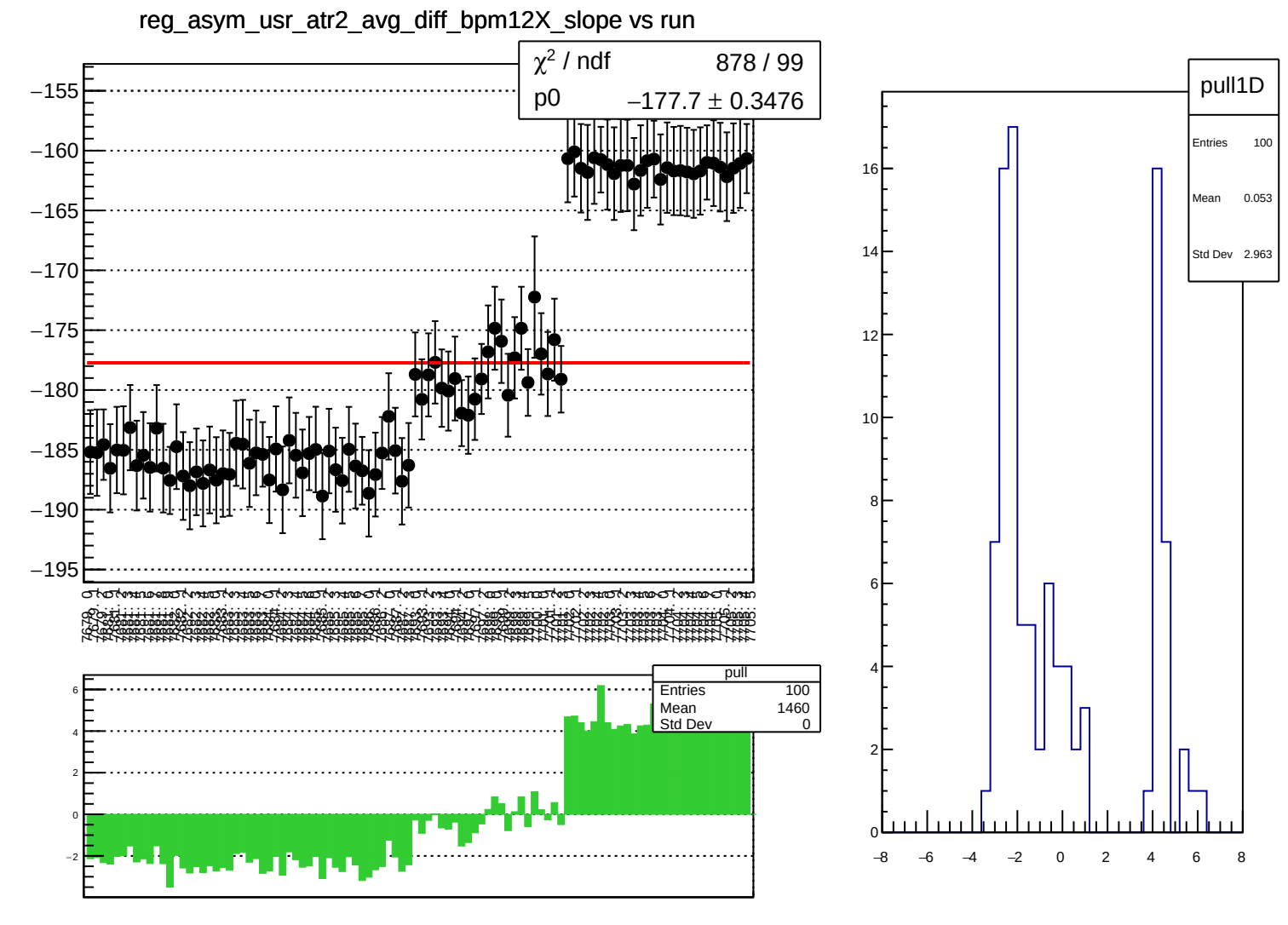

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 247.3 / 99
p0 −440.4 ± 3.067
100
0
−100
−200
−300
−400
−500
pull
Entries 100
Mean 109
Std Dev 0
3
2
1
0
−1
pull1D
Entries 100
Mean 0.5949
Std Dev 1.456
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

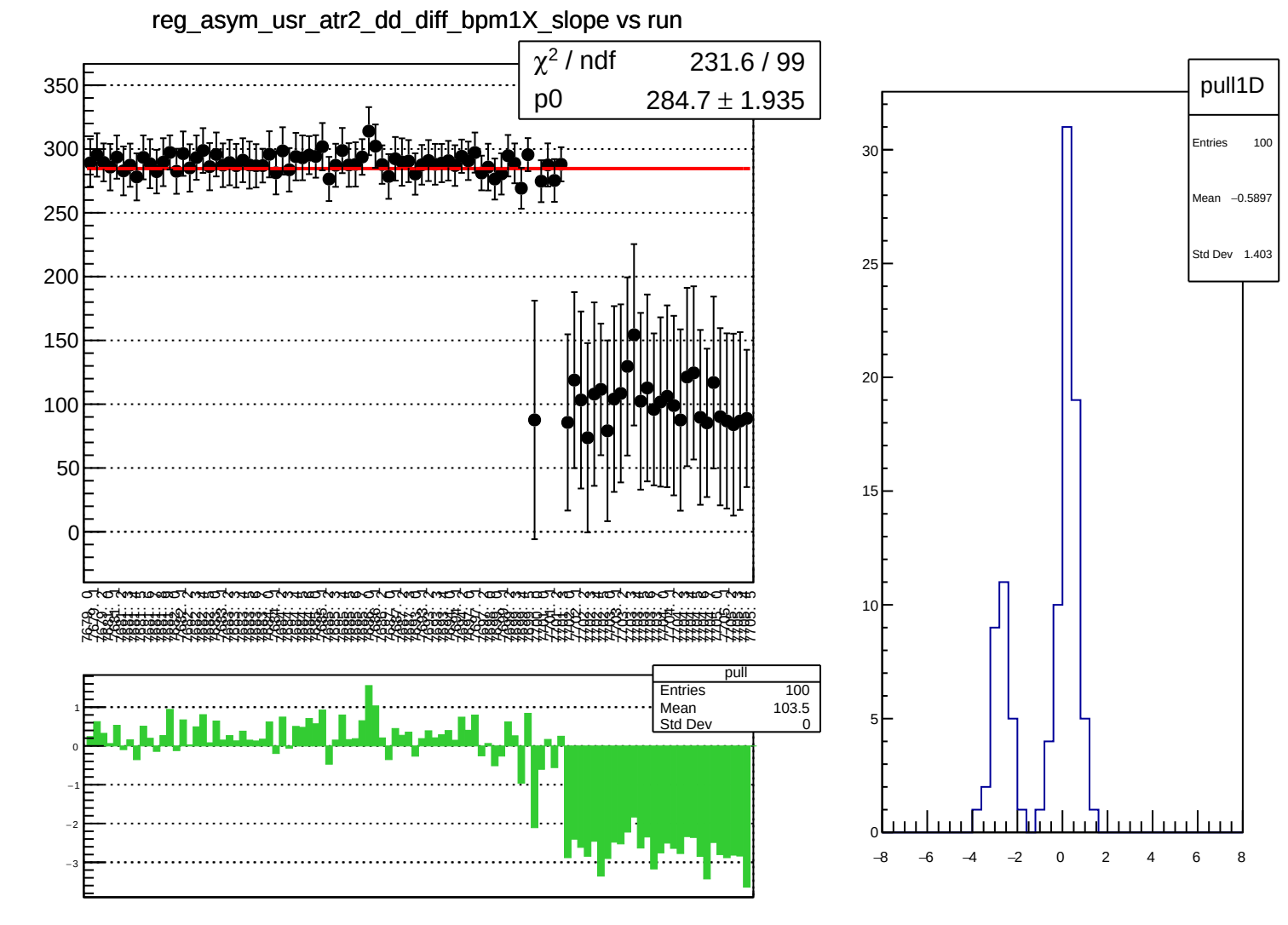

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.07 / 99
p0 46.19 ± 4.222
pull
Entries 100
Mean 38.86
Std Dev 40.26

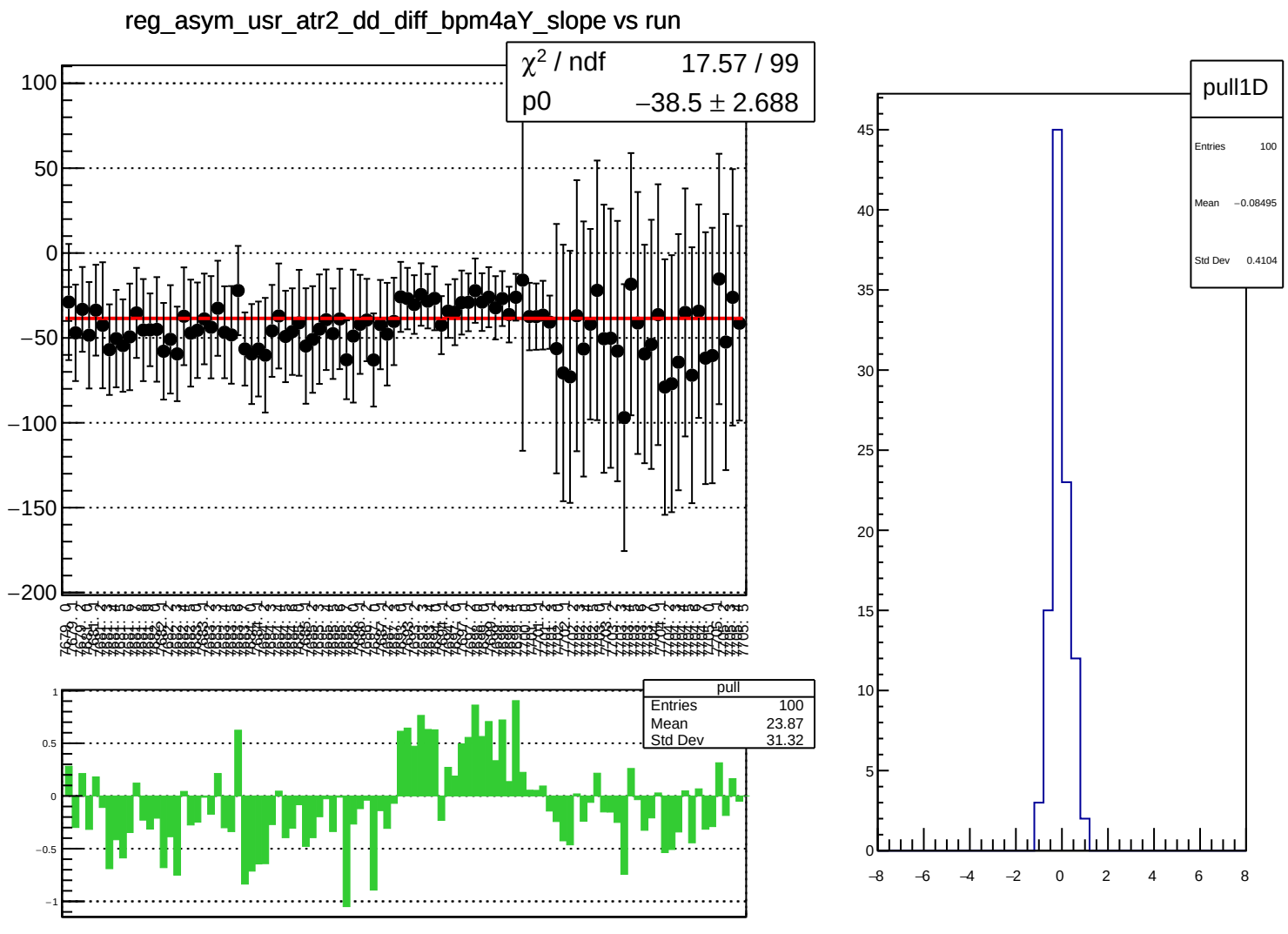

pull1D
Entries 100
Mean 0.09708
Std Dev 0.3482

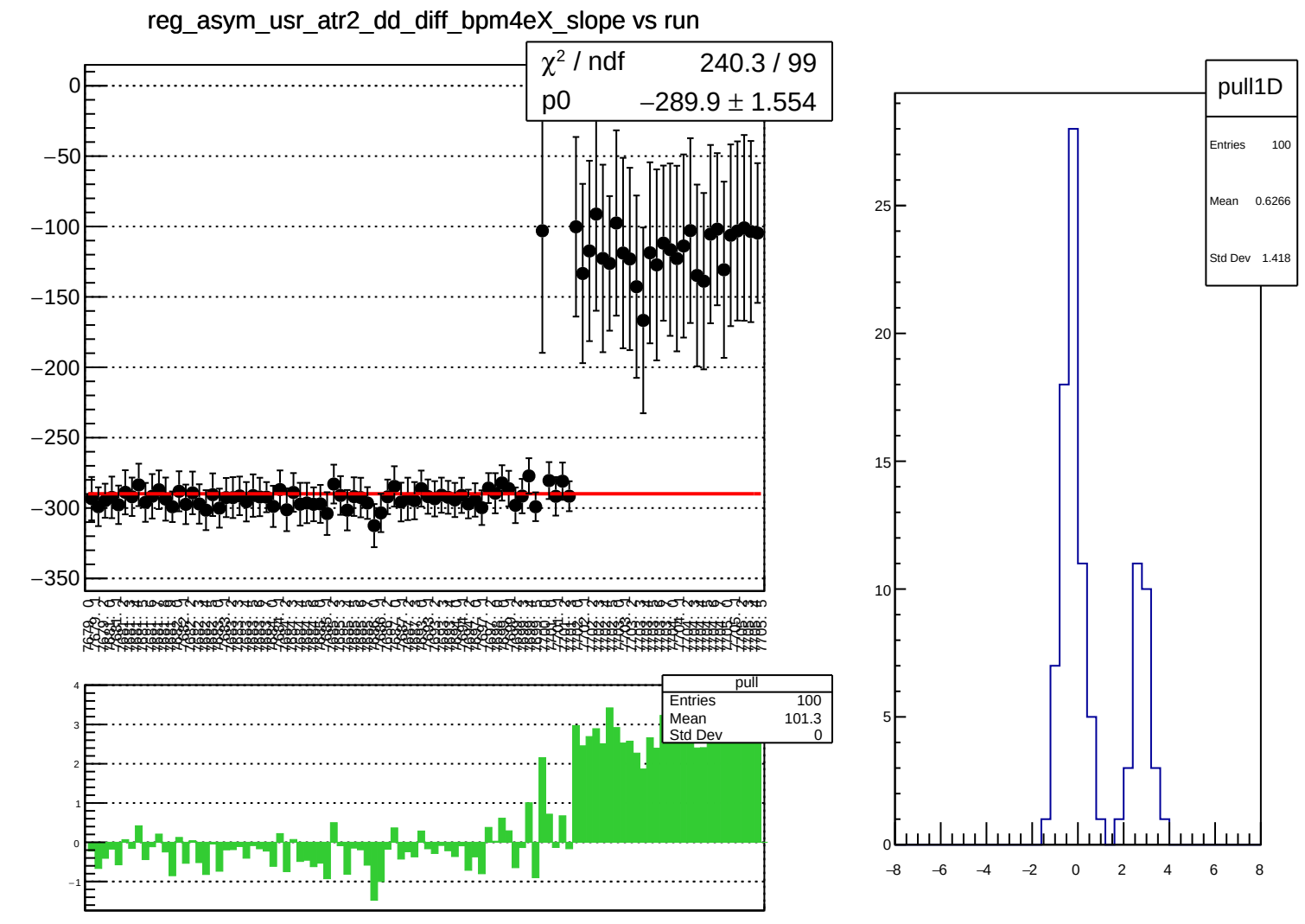

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 264.2 / 99
p0 502.7 ± 2.46
600
500
400
300
200
100
pull
Entries 100
Mean 108
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 100
Mean −0.6314
Std Dev 1.498
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

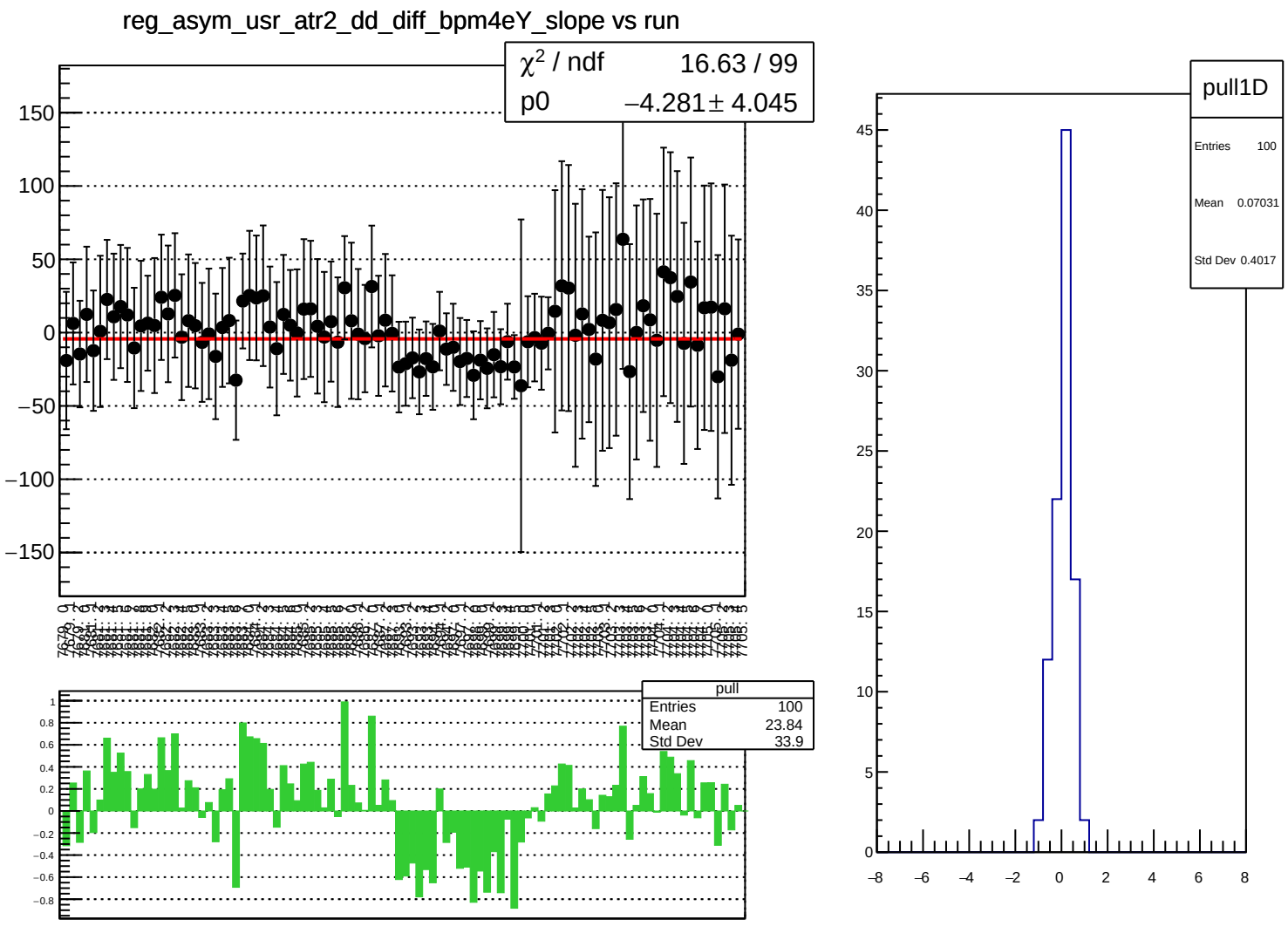

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.98 / 99
p0 22.23 ± 6.369
pull
Entries 100
Mean 51.37
Std Dev 43.9
pull1D
Entries 100
Mean −0.08185
Std Dev 0.3363

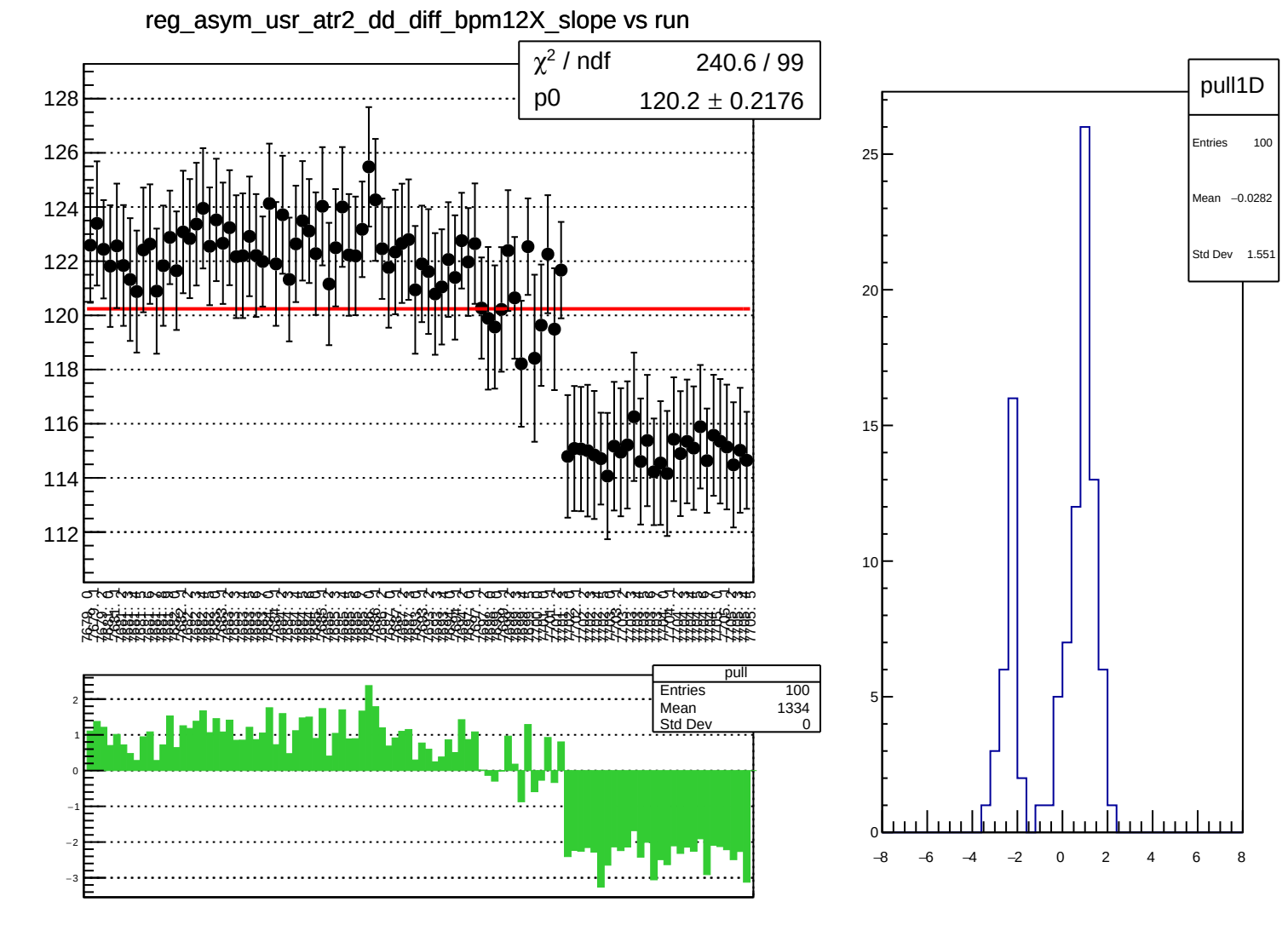

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 878 / 99
p0 −177.7 ± 0.3476
pull
Entries 100
Mean 1460
Std Dev 0
pull1D
Entries 100
Mean 0.053
Std Dev 2.963

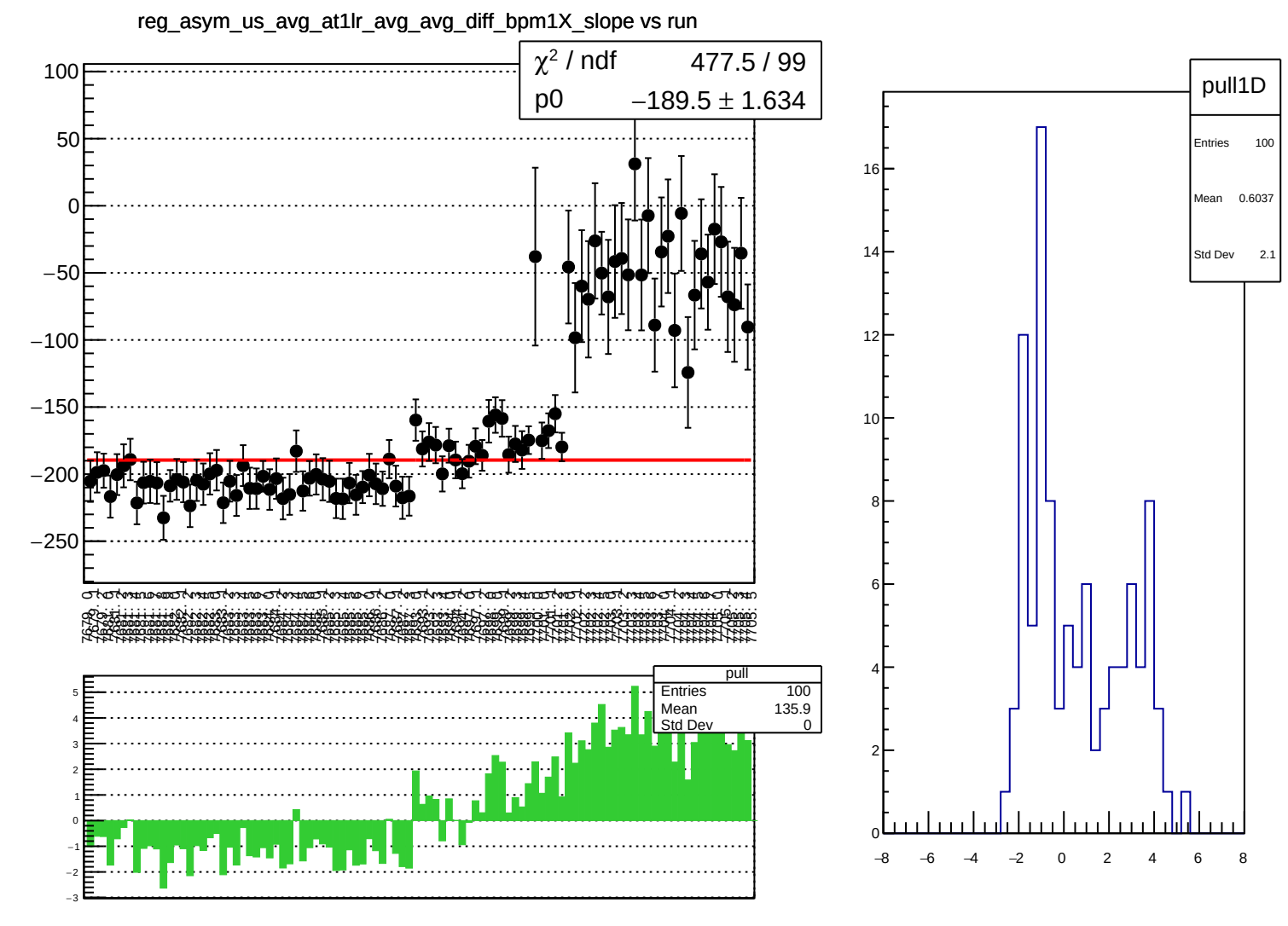

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 231.6 / 99
p0 284.7 ± 1.935
pull
Entries 100
Mean 103.5
Std Dev 0
pull1D
Entries 100
Mean −0.5897
Std Dev 1.403

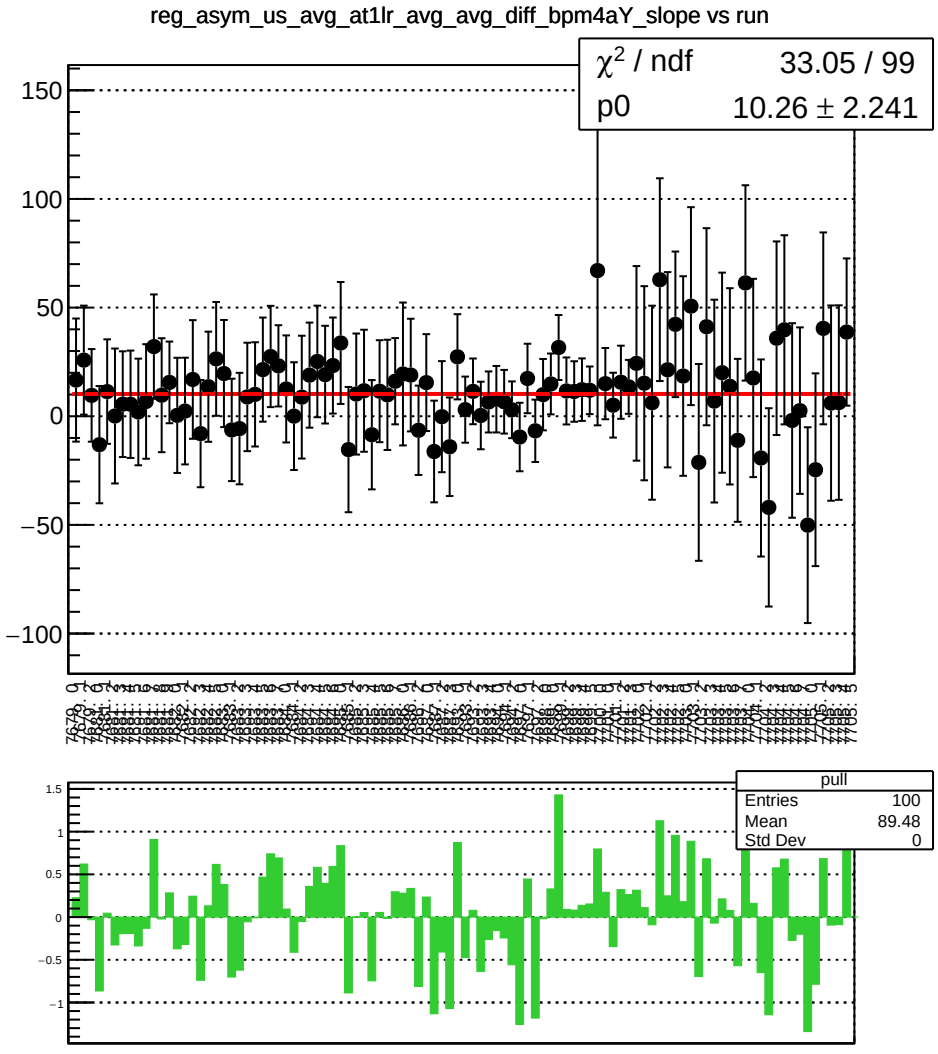

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.57 / 99
p0 −38.5 ± 2.688
100
50
0
−50
−100
−150
−200
pull
Entries 100
Mean 23.87
Std Dev 31.32
1
0.5
0
−0.5
−1
pull1D
Entries 100
Mean −0.08495
Std Dev 0.4104
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

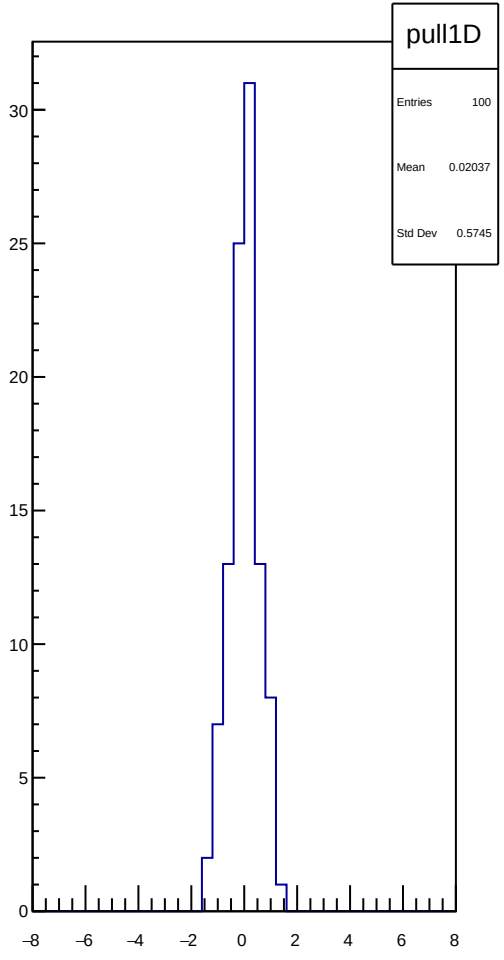

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 240.3 / 99
p0 −289.9 ± 1.554
0
−50
−100
−150
−200
−250
−300
−350
pull
Entries 100
Mean 101.3
Std Dev 0
4
3
2
1
0
−1
pull1D
Entries 100
Mean 0.6266
Std Dev 1.418
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

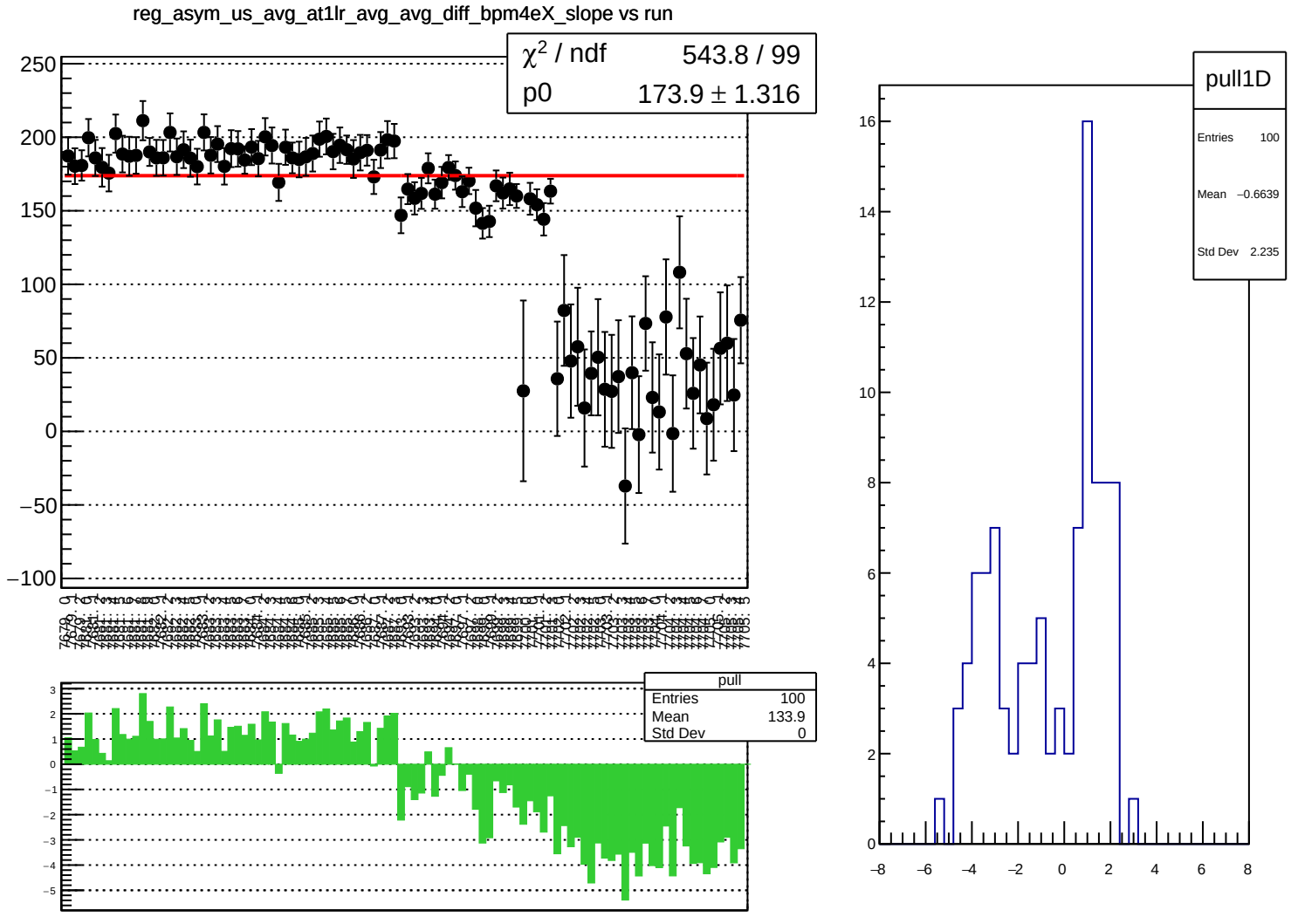

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.63 / 99
p0 −4.281 ± 4.045
150
100
50
0
−50
−100
−150
pull
Entries 100
Mean 23.84
Std Dev 33.9
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 100
Mean 0.07031
Std Dev 0.4017
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

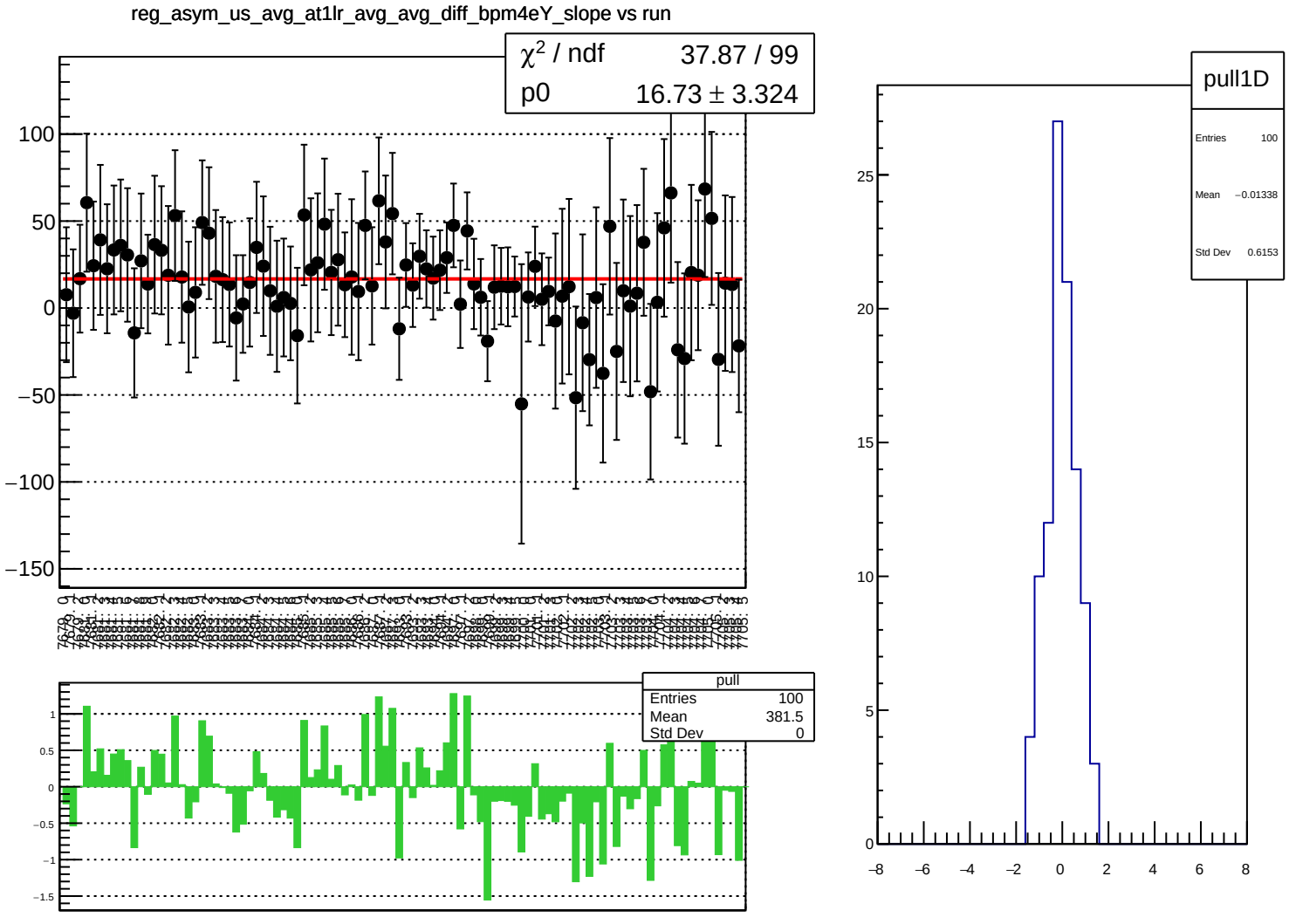

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 240.6 / 99
p0 120.2 ± 0.2176
pull
Entries 100
Mean 1334
Std Dev 0
pull1D
Entries 100
Mean −0.0282
Std Dev 1.551

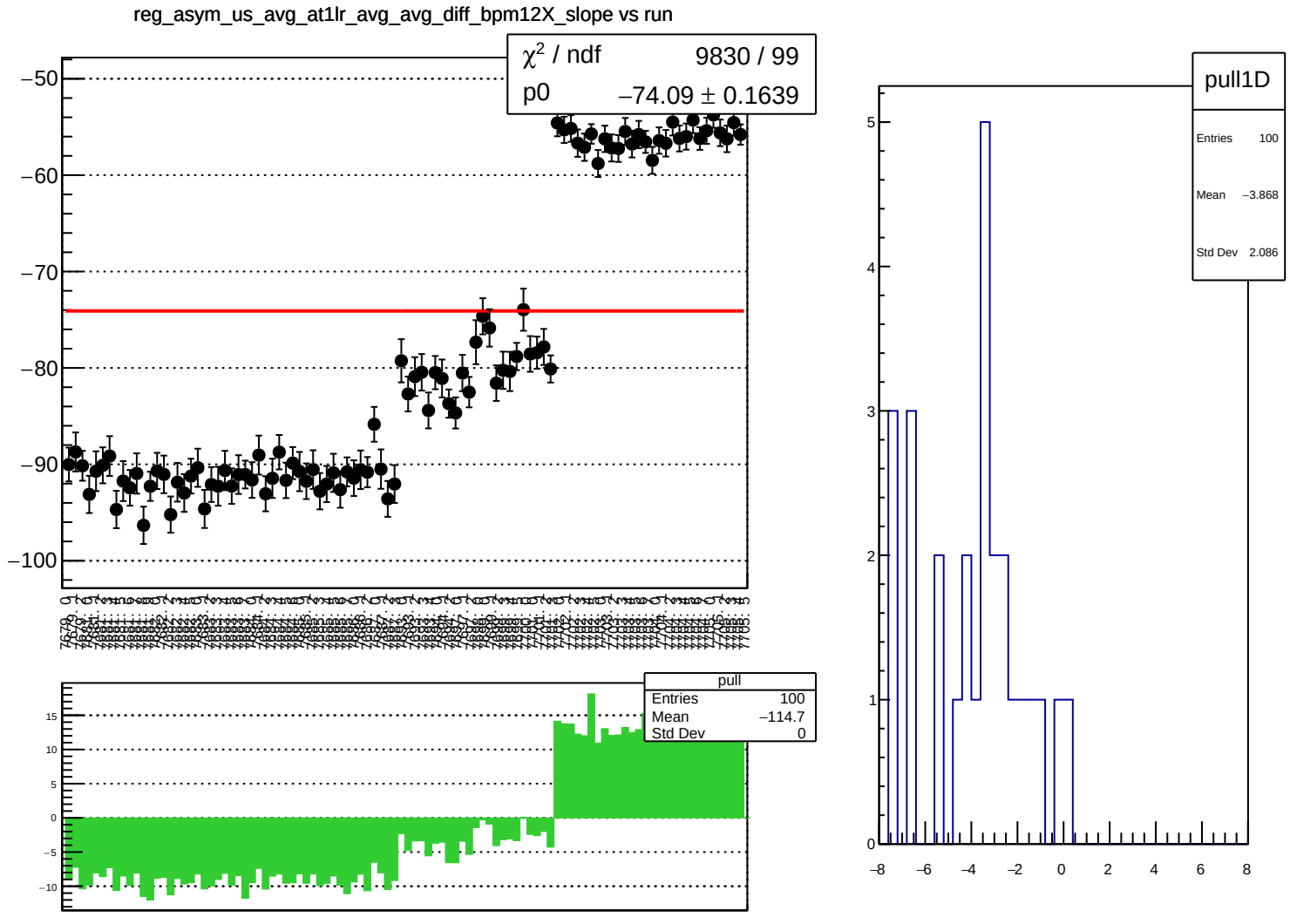

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 477.5 / 99
p0 −189.5 ± 1.634
pull
Entries 100
Mean 135.9
Std Dev 0
pull1D
Entries 100
Mean 0.6037
Std Dev 2.1

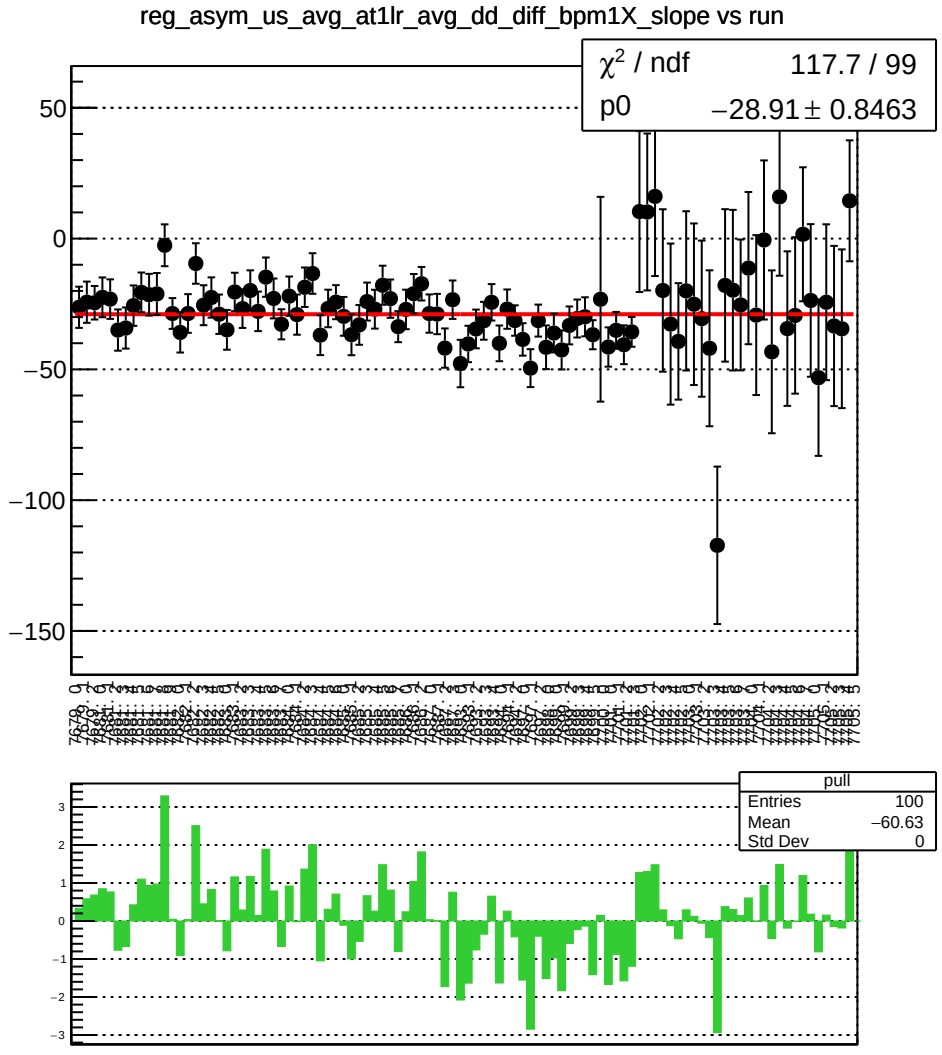

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 33.05 / 99
p0 10.26 ± 2.241
150
100
50
0
−50
−100
pull
Entries 100
Mean 89.48
Std Dev 0
1.5
1
0.5
0
−0.5
−1

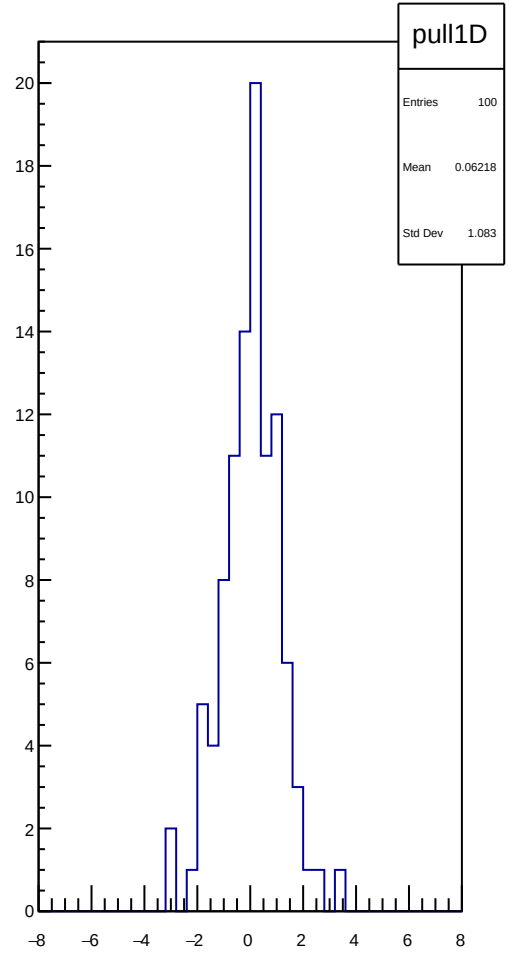

pull1D
Entries 100
Mean 0.02037
Std Dev 0.5745
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

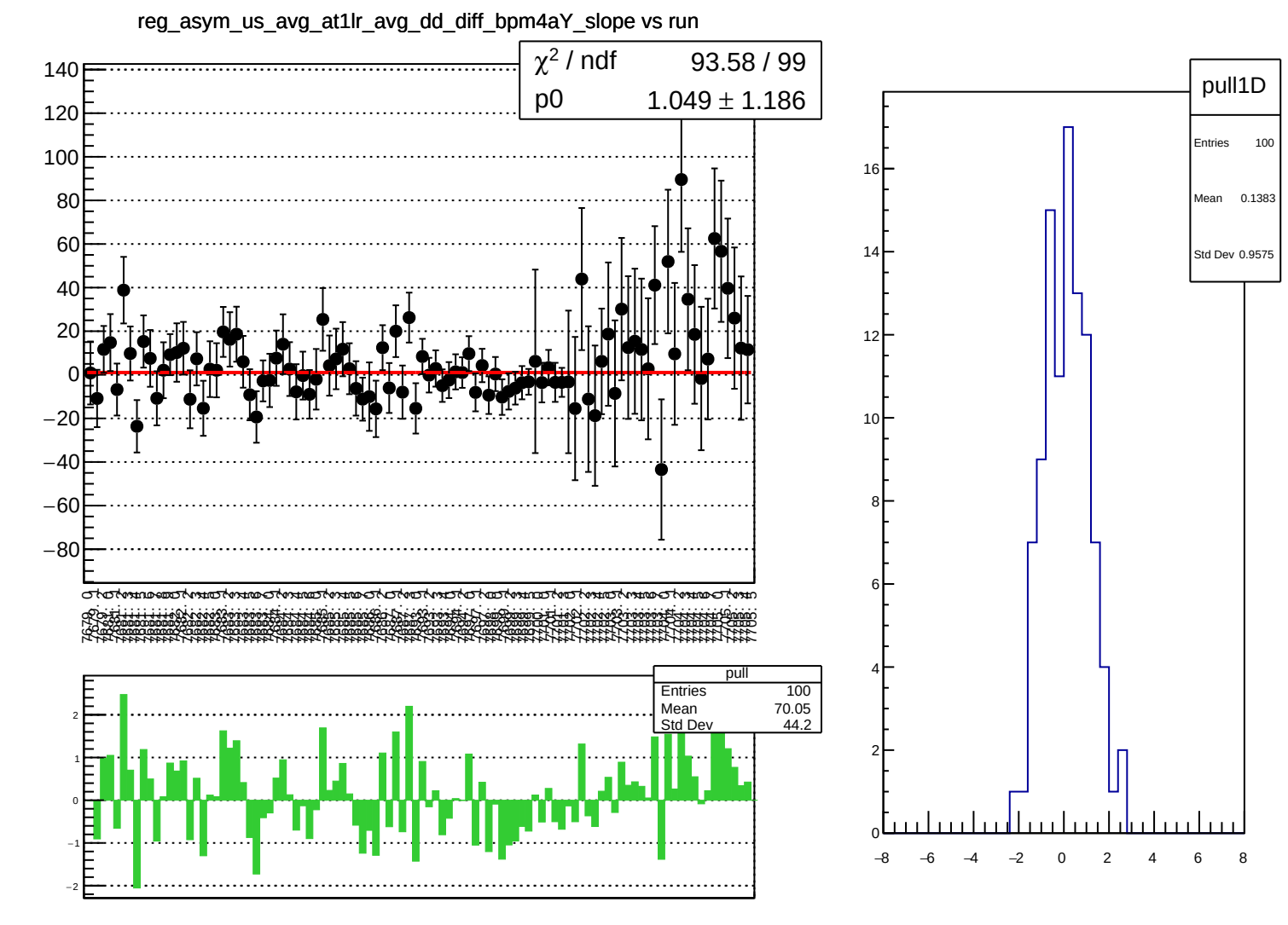

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 543.8 / 99
p0 173.9 ± 1.316
250
200
150
100
50
0
−50
−100
pull
Entries 100
Mean 133.9
Std Dev 0
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 100
Mean −0.6639
Std Dev 2.235
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

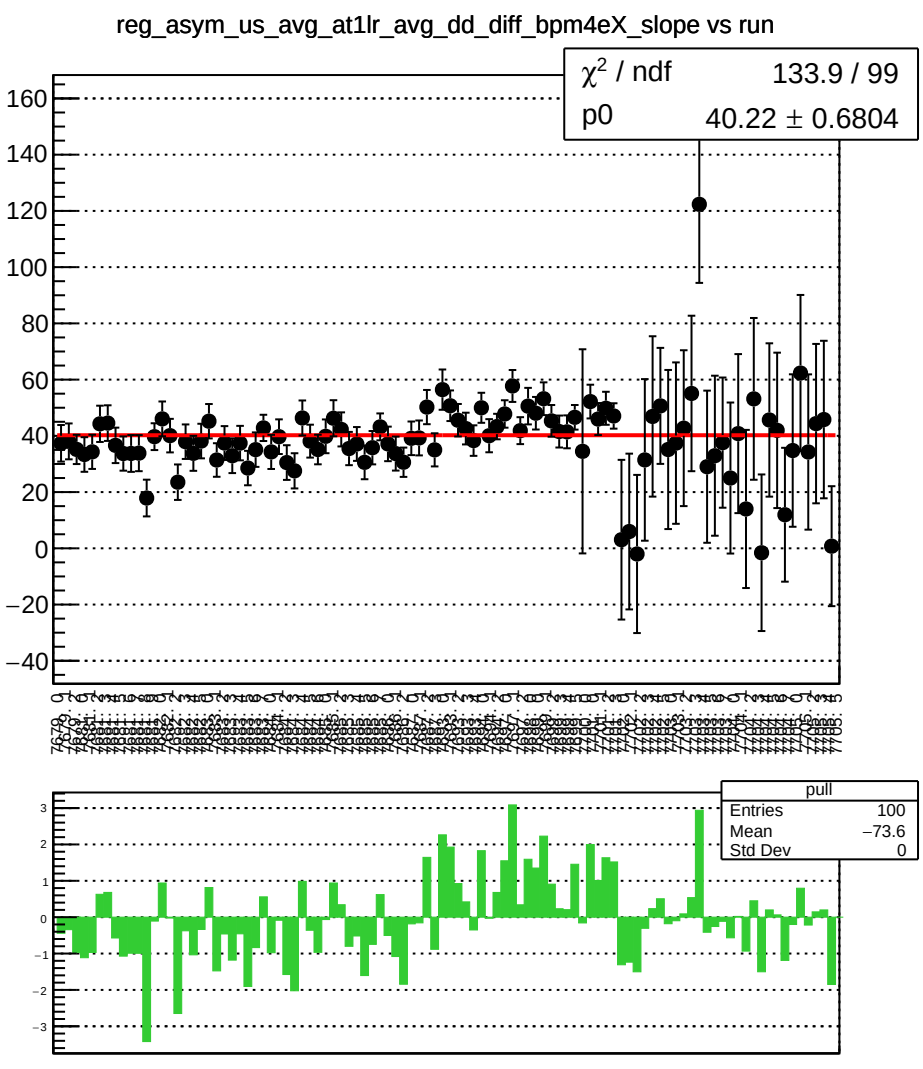

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 37.87 / 99
p0 16.73 ± 3.324
100
50
0
−50
−100
−150
pull
Entries 100
Mean 381.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 100
Mean −0.01338
Std Dev 0.6153
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

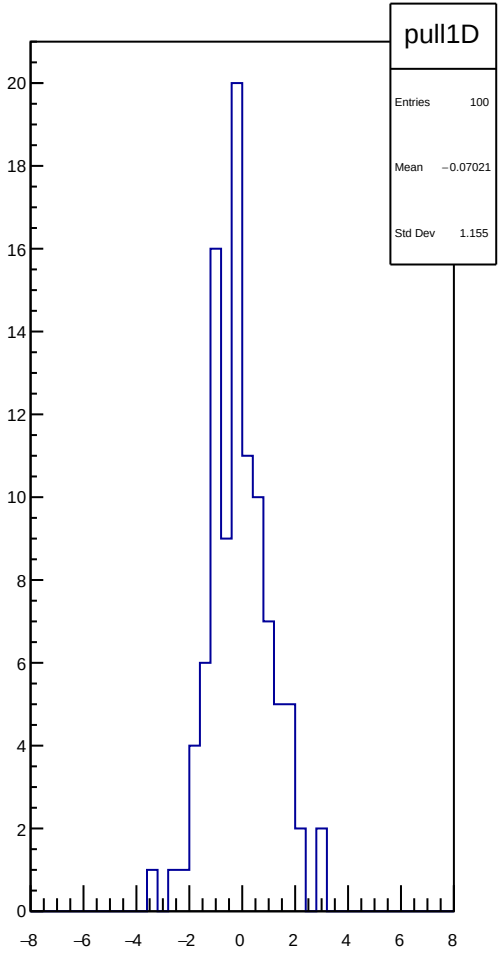

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 9830 / 99
p0 −74.09 ± 0.1639
−50
−60
−70
−80
−90
−100
pull
Entries 100
Mean −114.7
Std Dev 0
15
10
5
0
−5
−10
pull1D
Entries 100
Mean −3.868
Std Dev 2.086
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

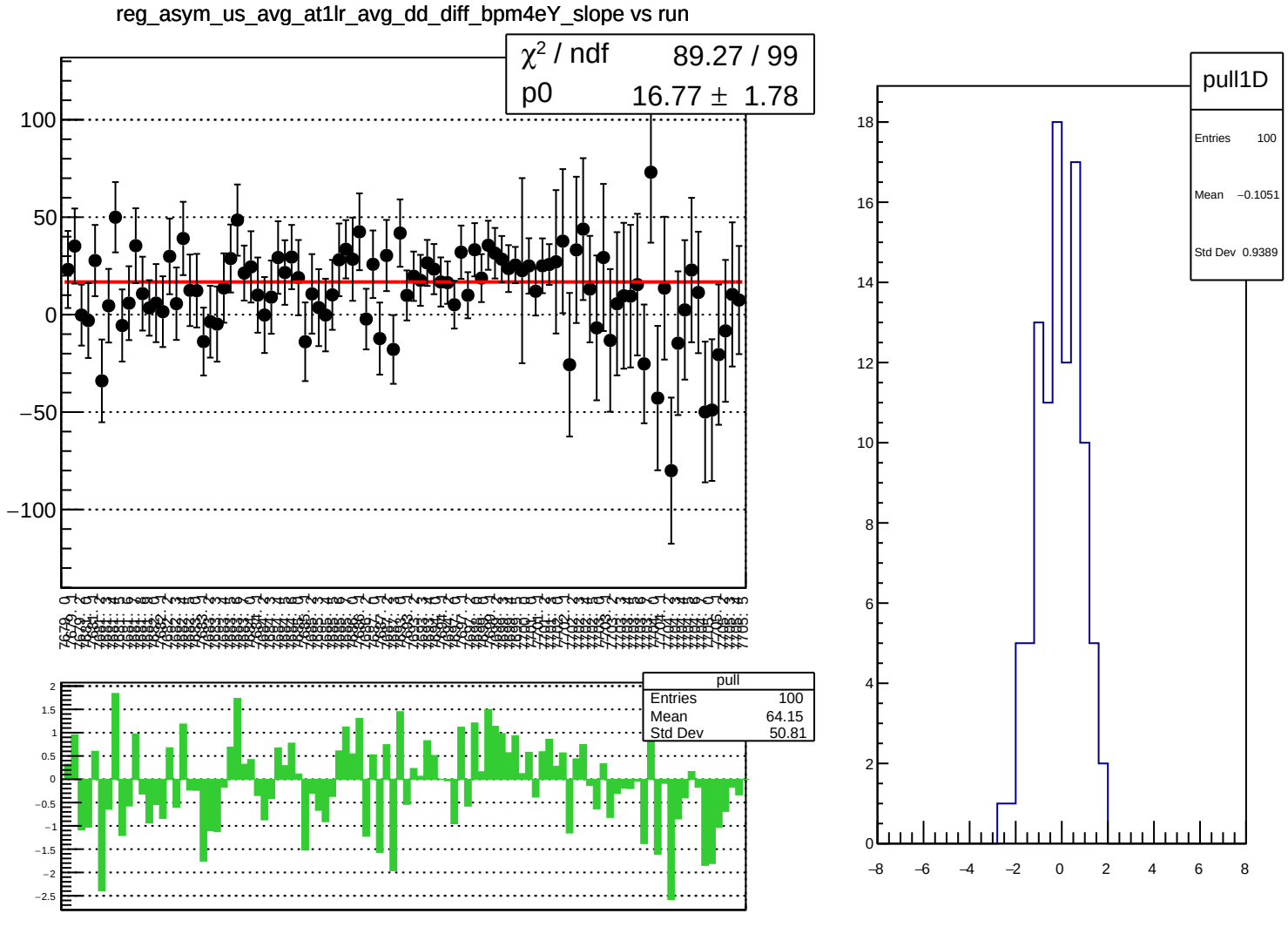

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 117.7 / 99
p0 −28.91 ± 0.8463
pull
Entries 100
Mean −60.63
Std Dev 0

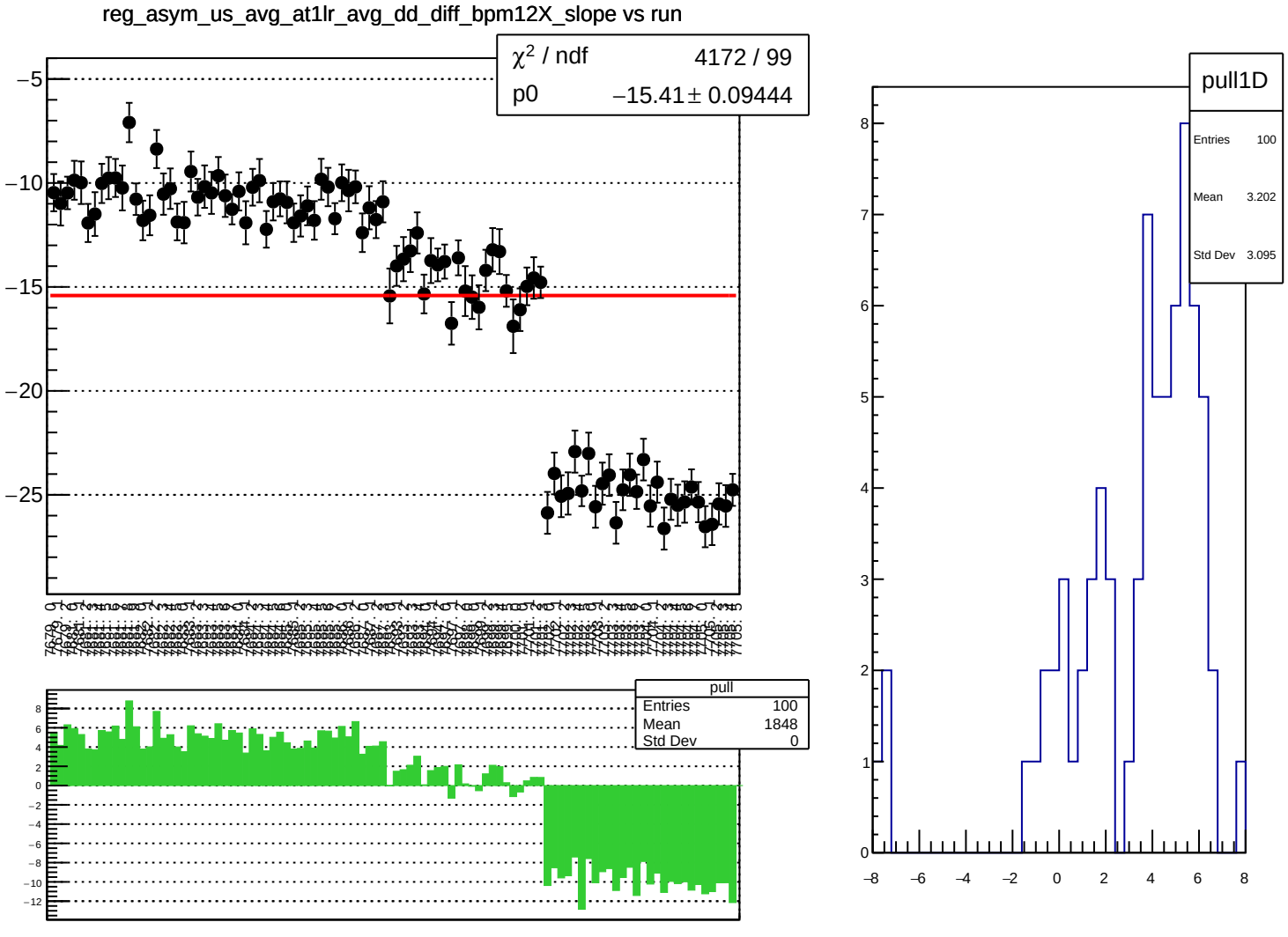

pull1D
Entries 100
Mean 0.06218
Std Dev 1.083

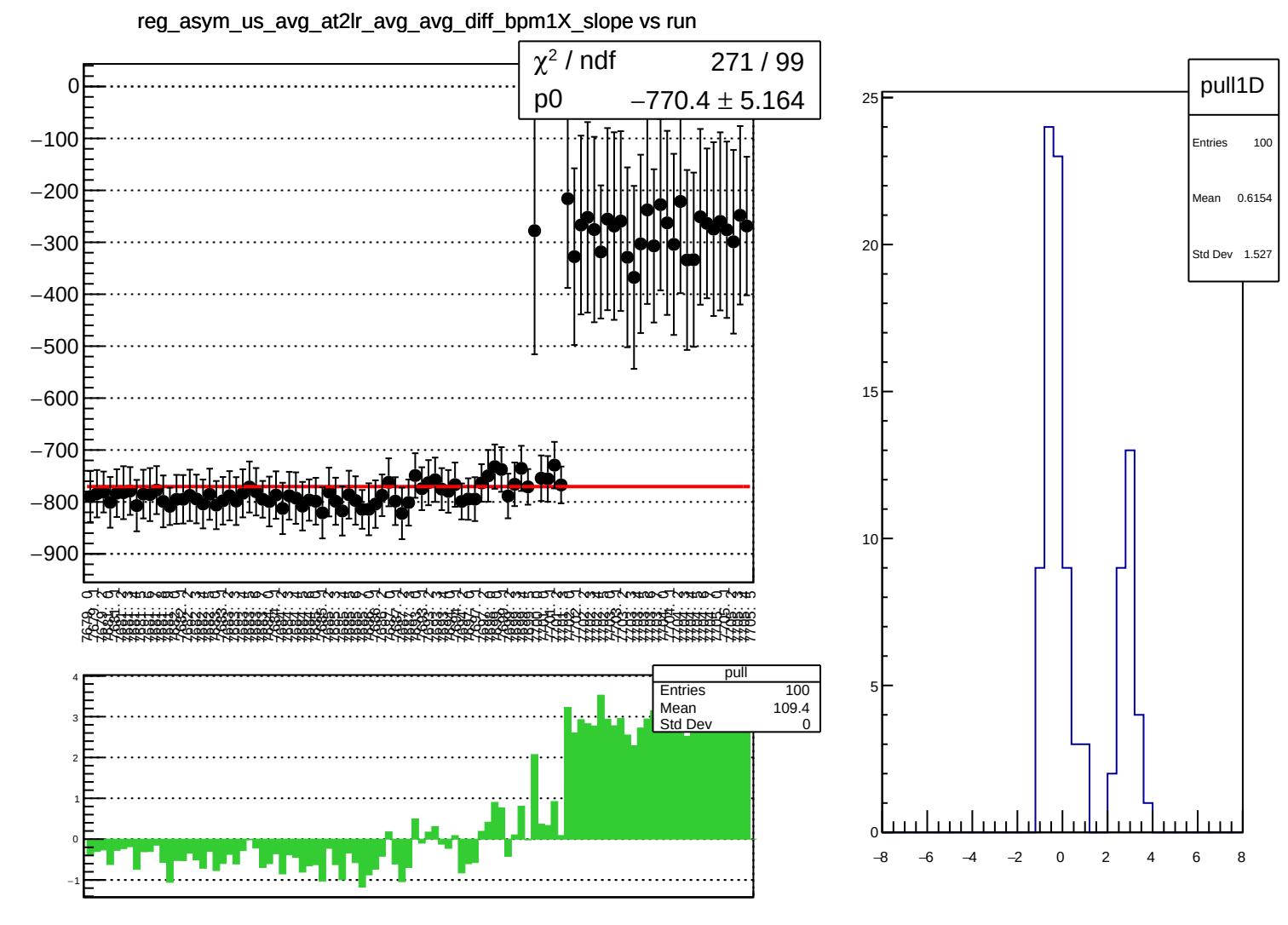

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 93.58 / 99
p0 1.049 ± 1.186
pull
Entries 100
Mean 70.05
Std Dev 44.2
pull1D
Entries 100
Mean 0.1383
Std Dev 0.9575

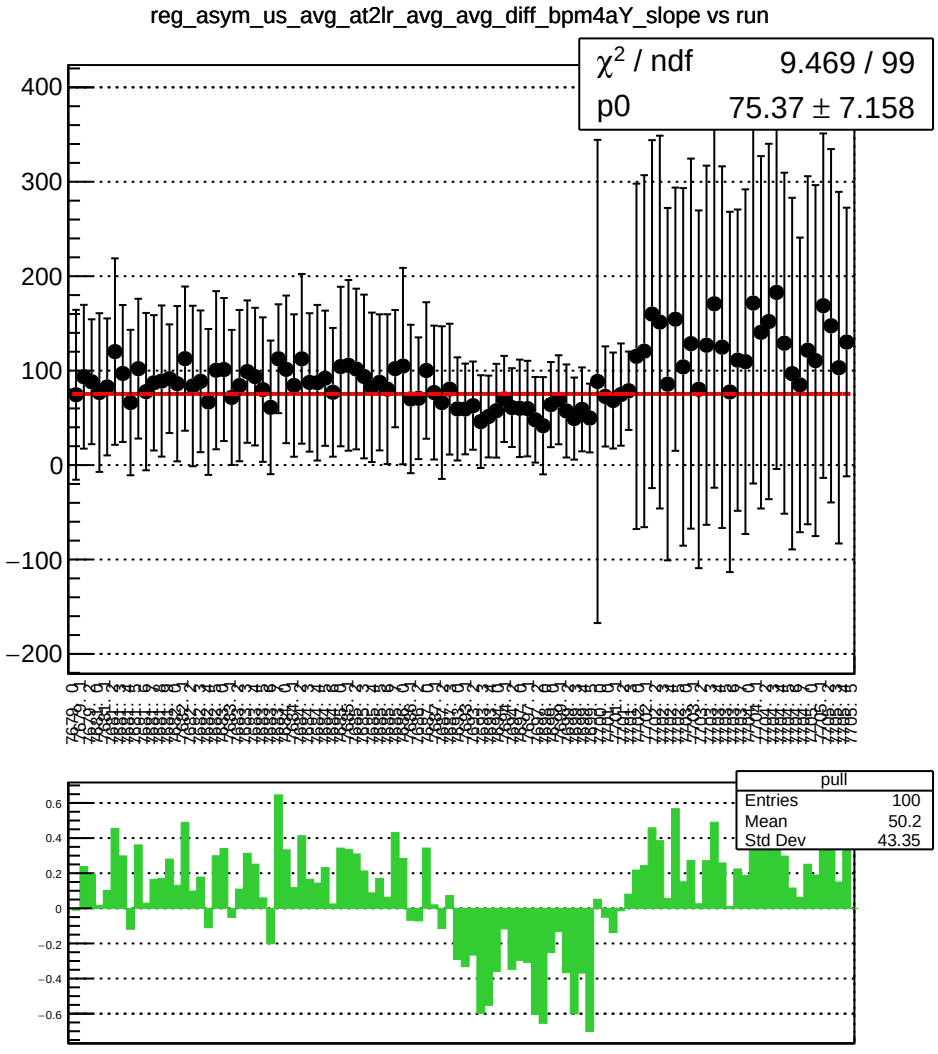

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 133.9 / 99
p0 40.22 ± 0.6804
pull
Entries 100
Mean −73.6
Std Dev 0

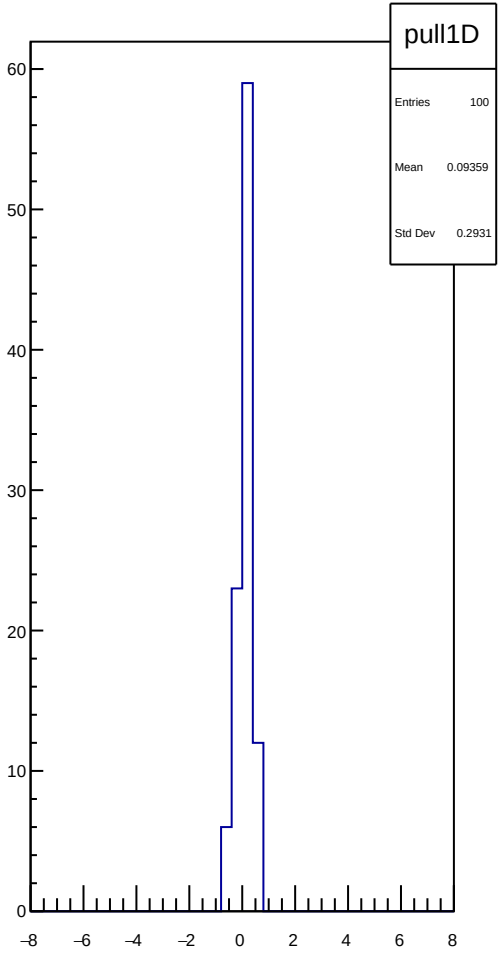

pull1D
Entries 100
Mean −0.07021
Std Dev 1.155

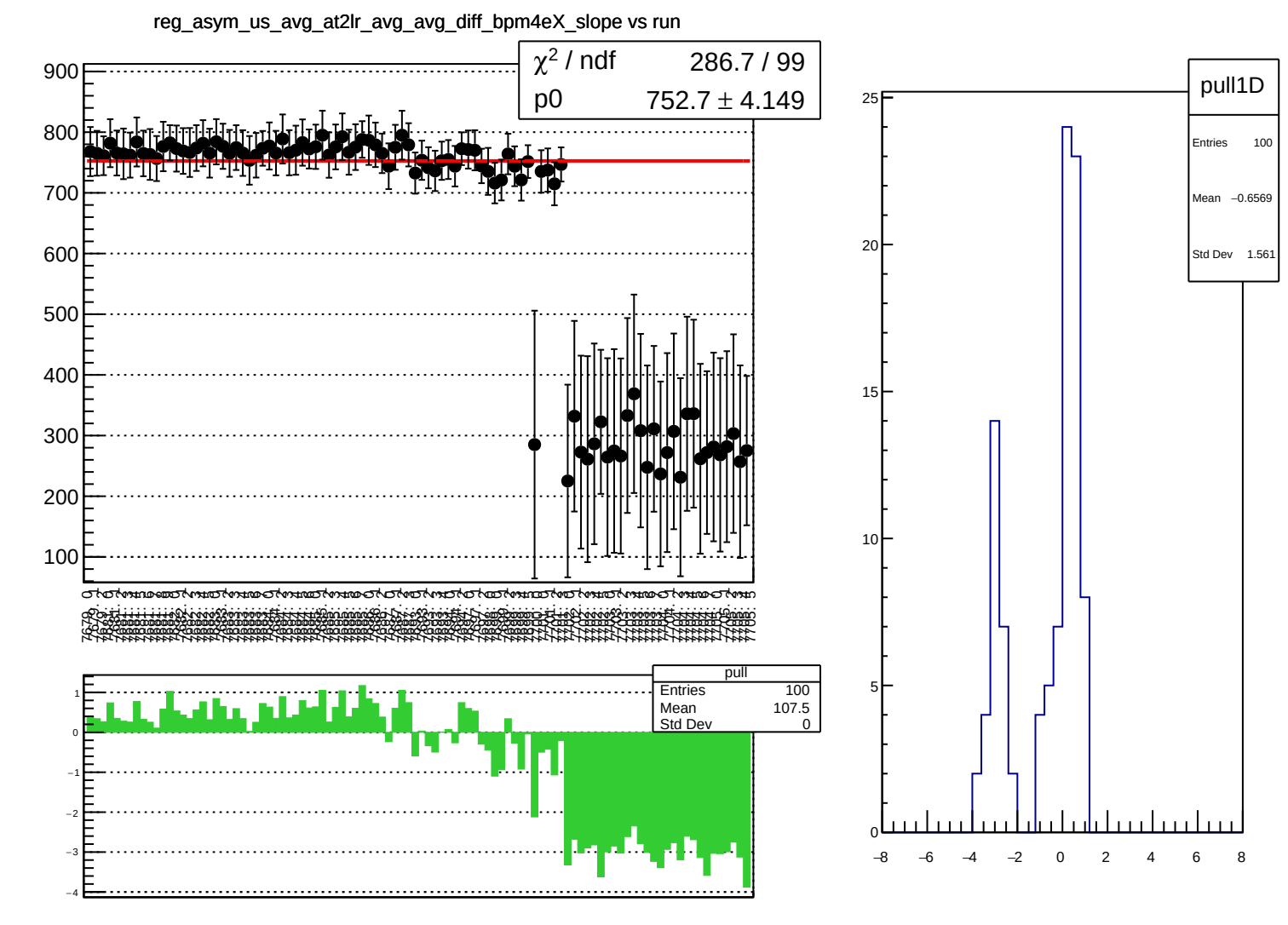

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 89.27 / 99
p0 16.77 ± 1.78
100
50
0
−50
−100
pull
Entries 100
Mean 64.15
Std Dev 50.81
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 100
Mean −0.1051
Std Dev 0.9389
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

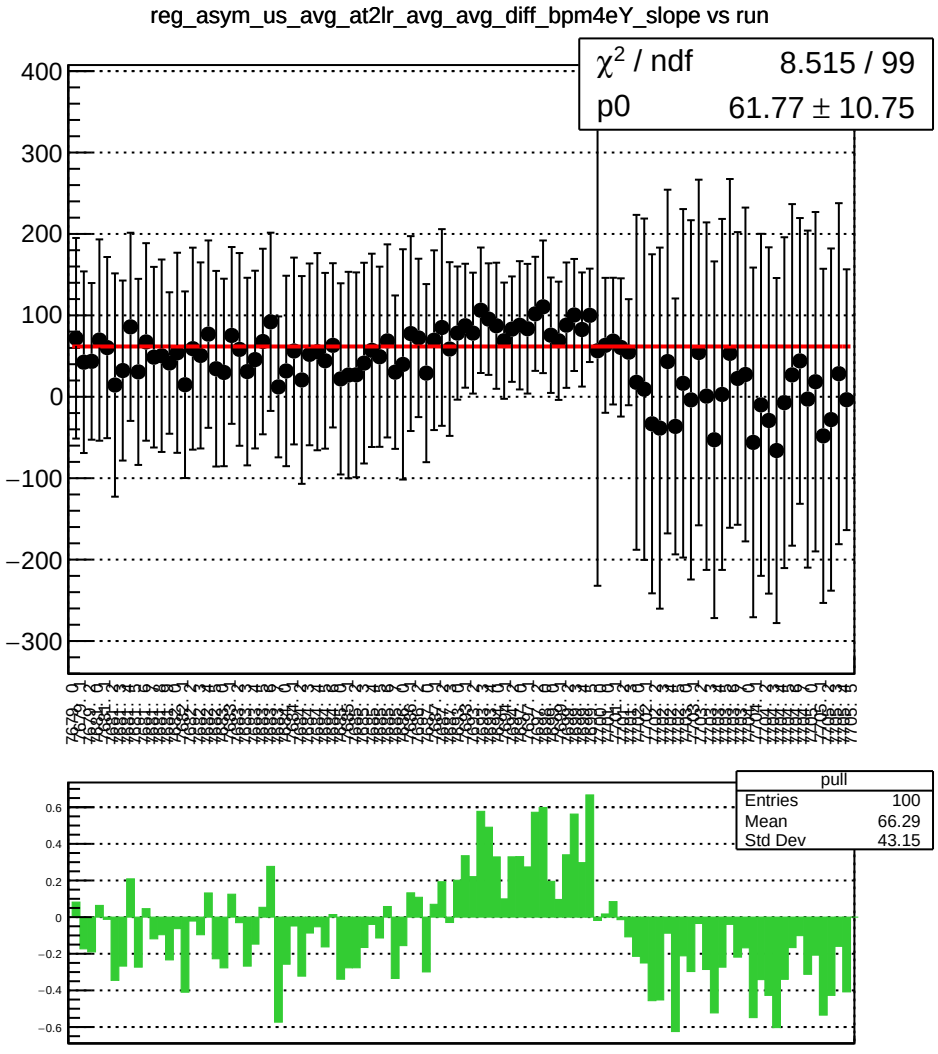

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 4172 / 99
p0 −15.41 ± 0.09444
pull
Entries 100
Mean 1848
Std Dev 0
pull1D
Entries 100
Mean 3.202
Std Dev 3.095

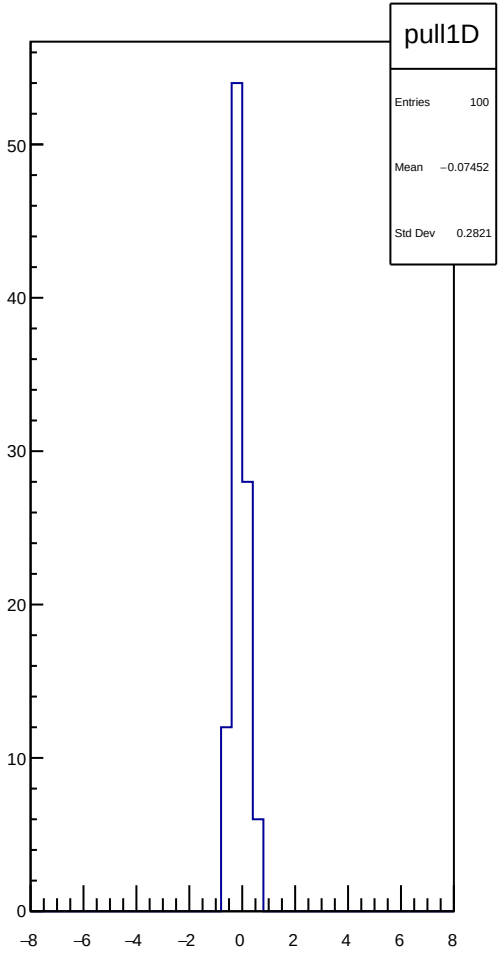

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 271 / 99
p0 −770.4 ± 5.164
pull
Entries 100
Mean 109.4
Std Dev 0
pull1D
Entries 100
Mean 0.6154
Std Dev 1.527

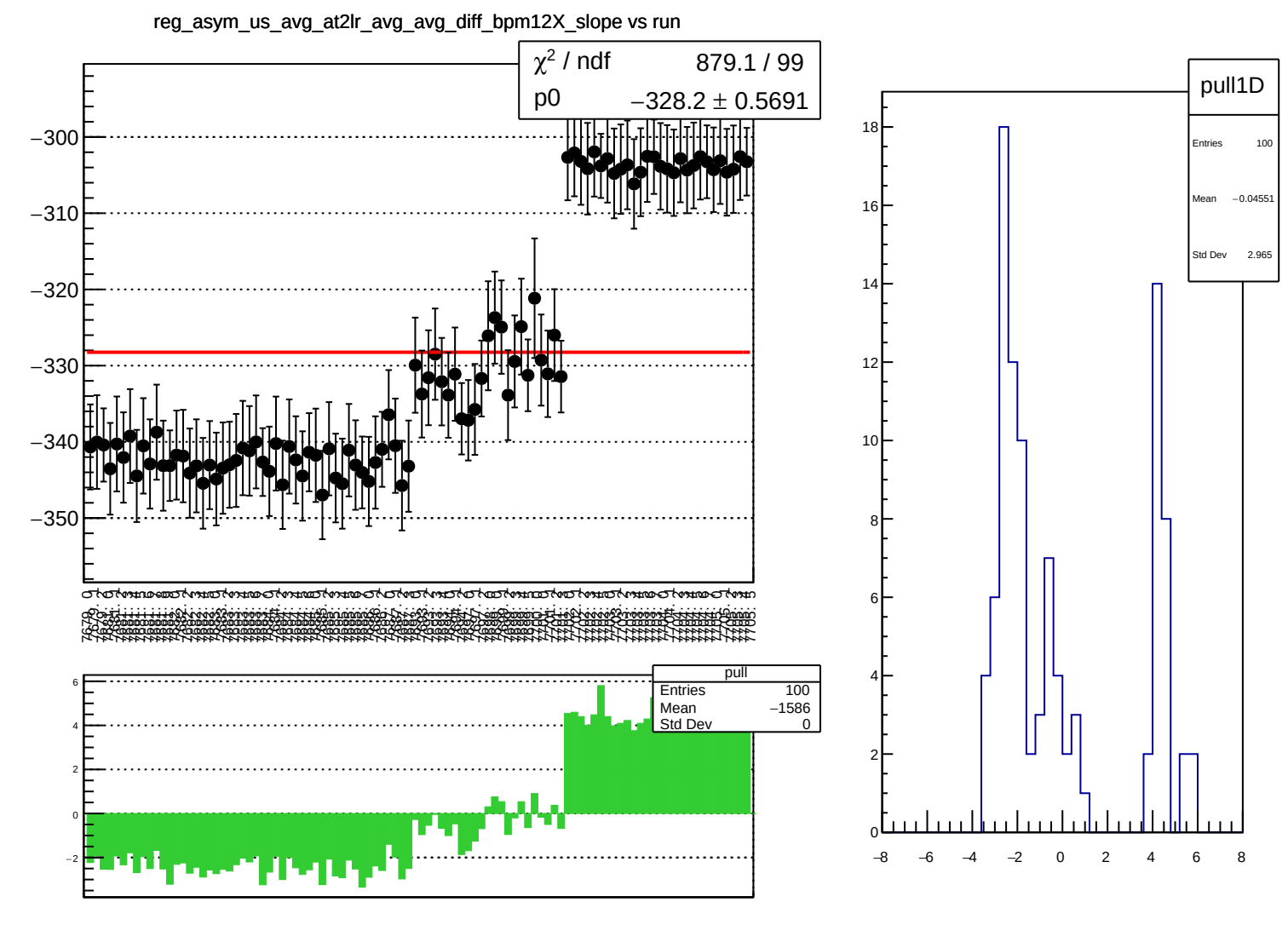

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.469 / 99
p0 75.37 ± 7.158
400
300
200
100
0
−100
−200
pull
Entries 100
Mean 50.2
Std Dev 43.35
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

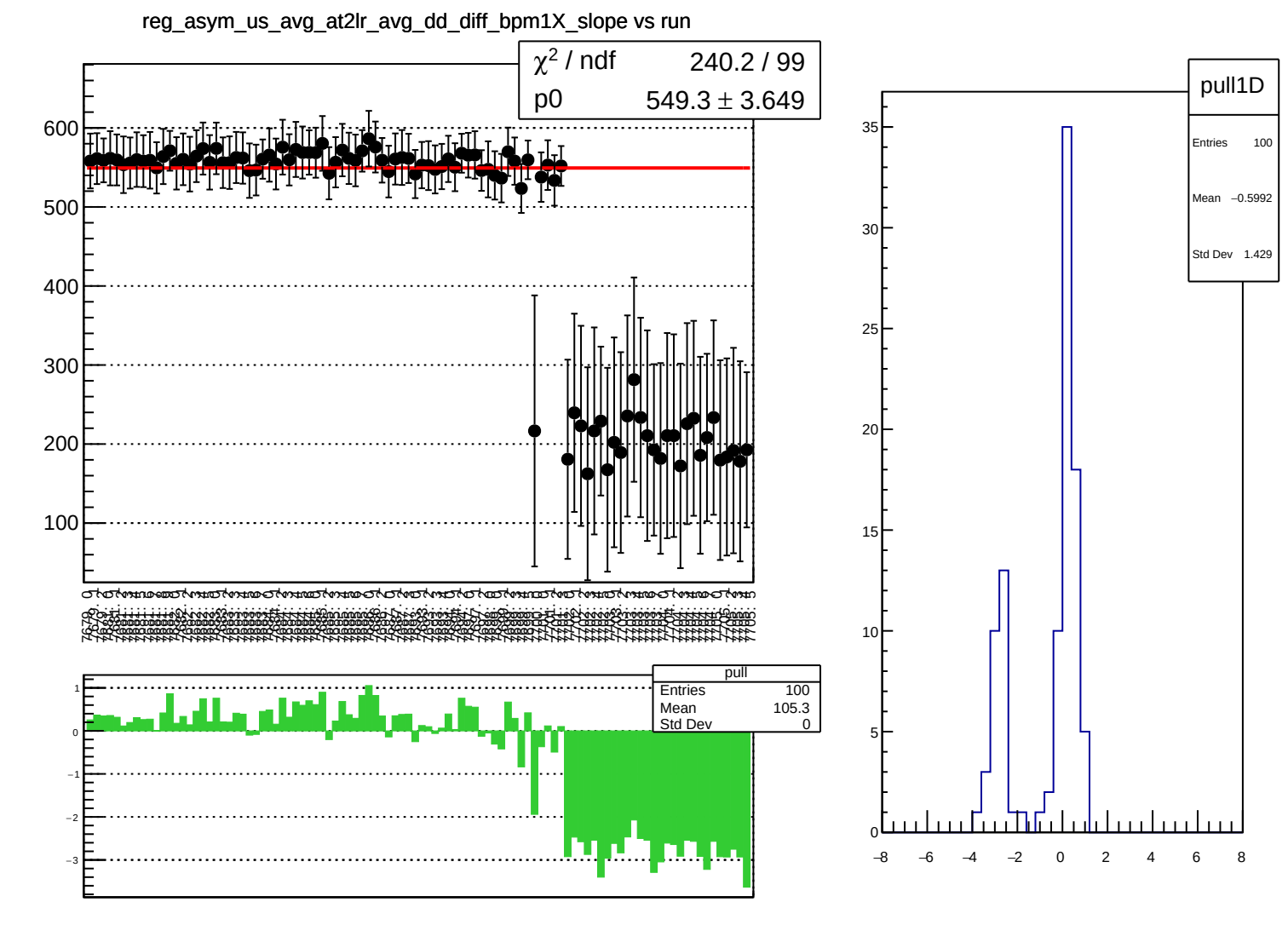

pull1D
Entries 100
Mean 0.09359
Std Dev 0.2931
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

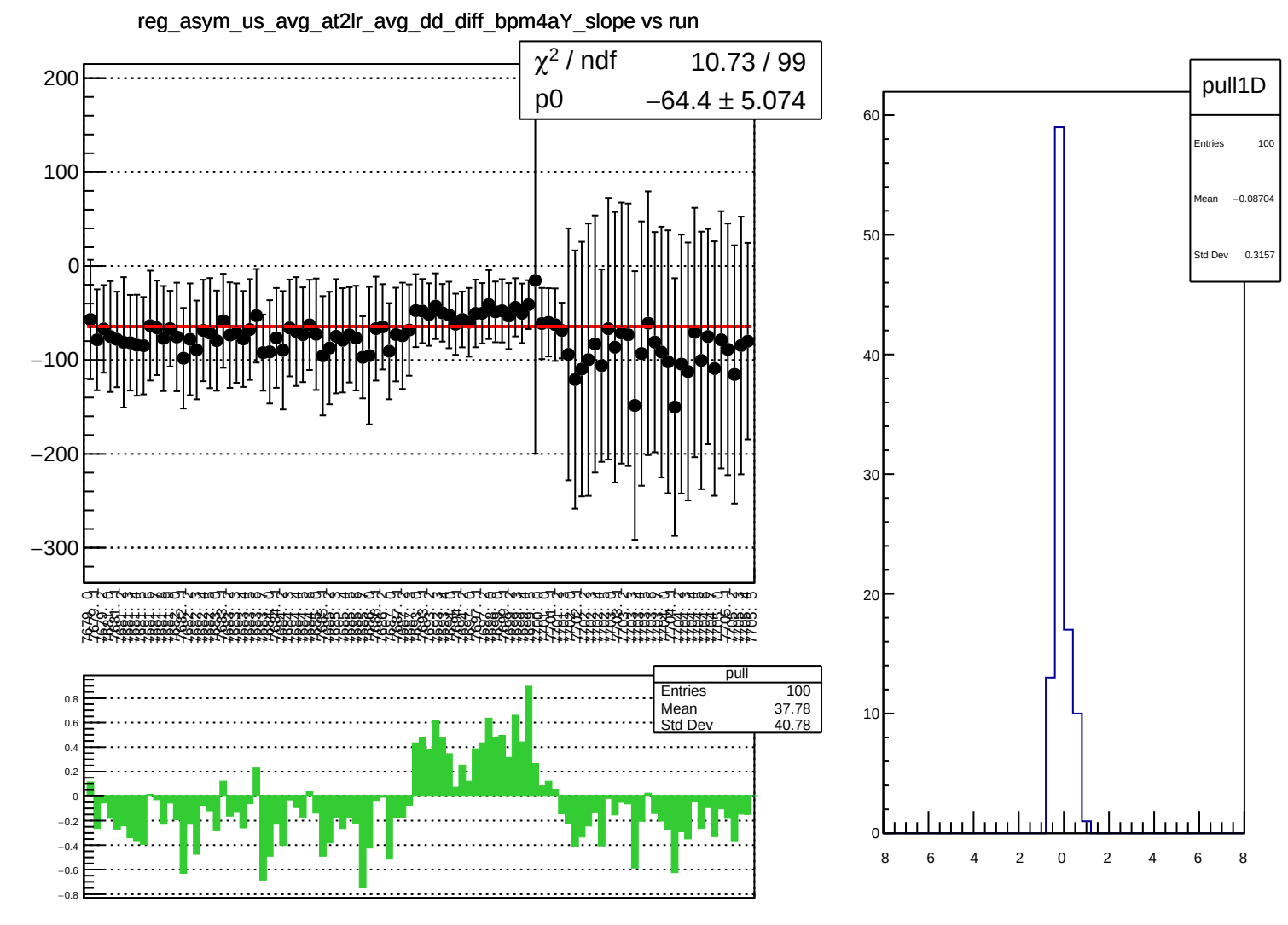

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 286.7 / 99
p0 752.7 ± 4.149
pull
Entries 100
Mean 107.5
Std Dev 0
pull1D
Entries 100
Mean −0.6569
Std Dev 1.561

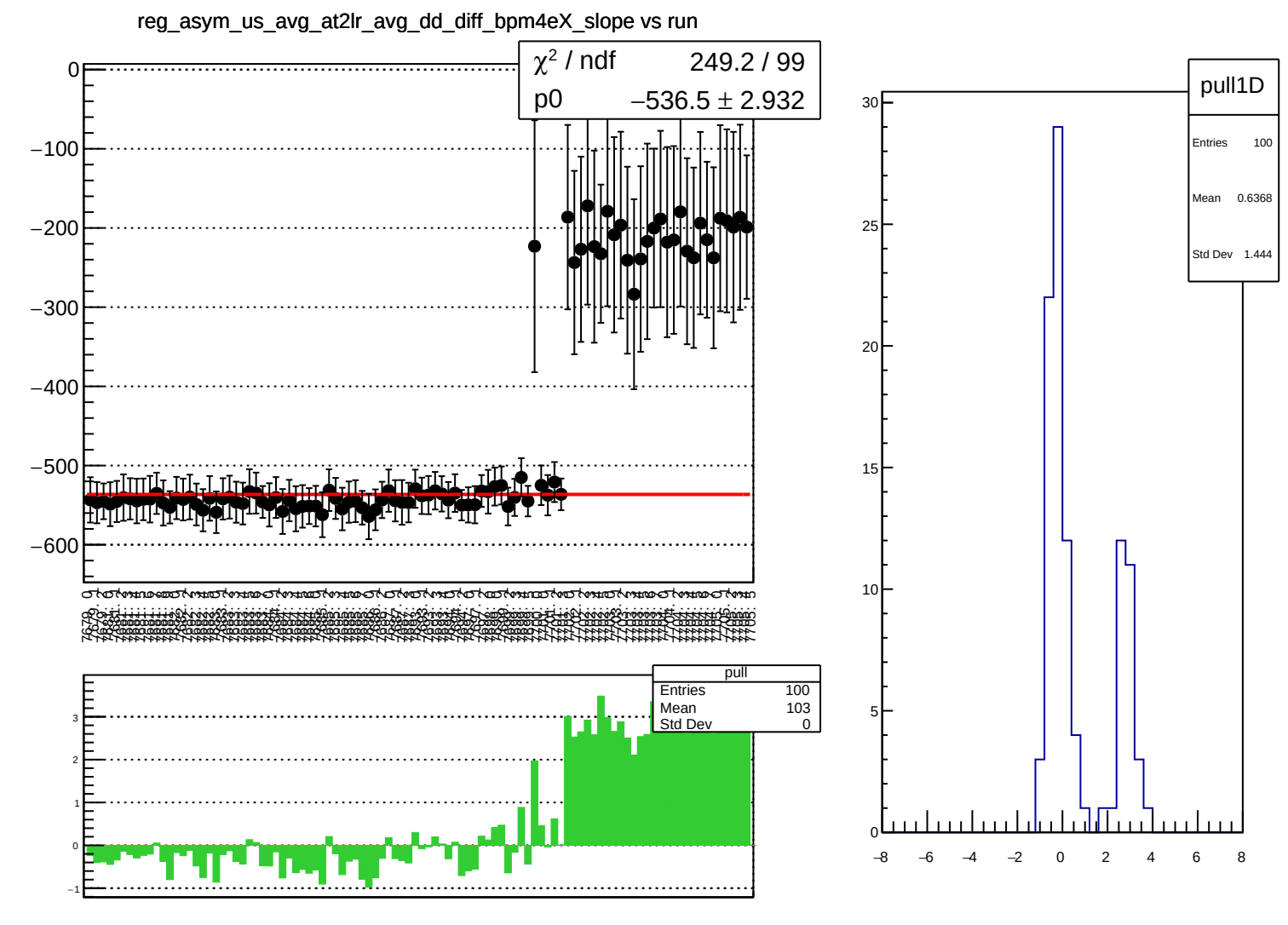

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.515 / 99
p0 61.77 ± 10.75
pull
Entries 100
Mean 66.29
Std Dev 43.15

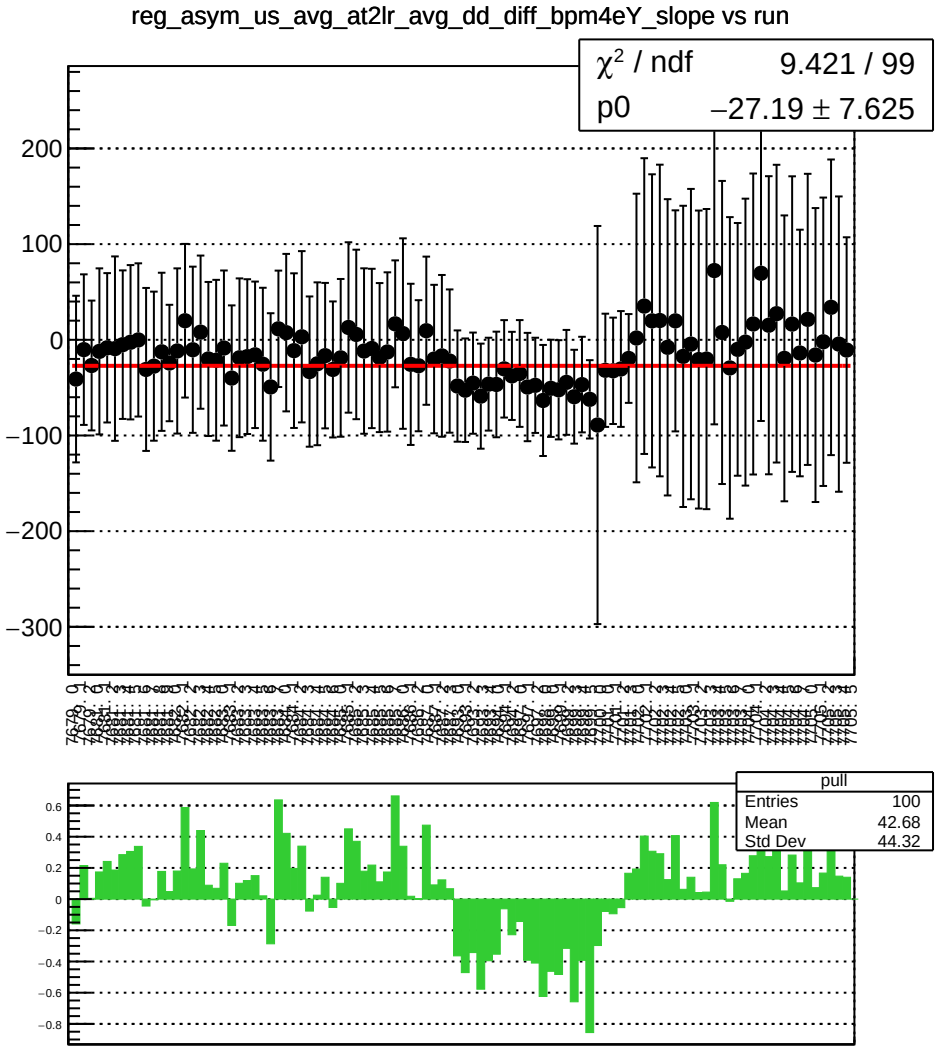

pull1D
Entries 100
Mean −0.07452
Std Dev 0.2821

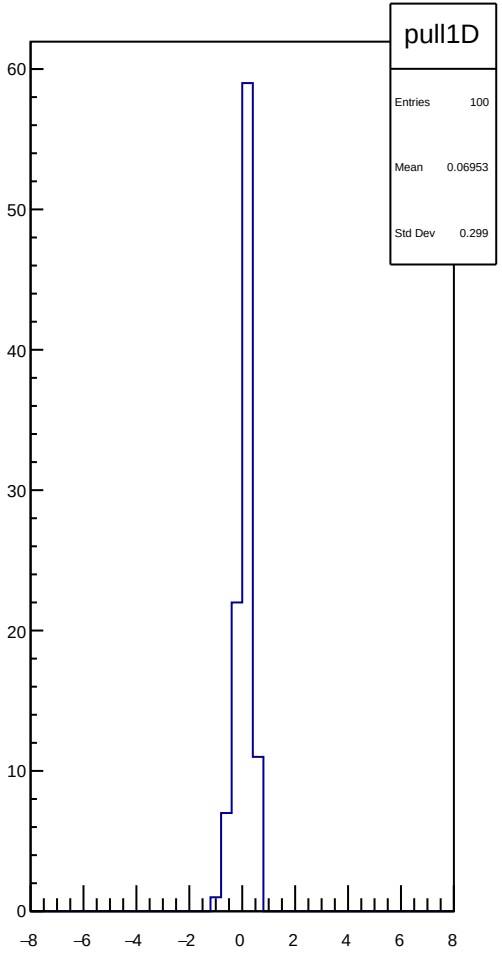

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 879.1 / 99
p0 −328.2 ± 0.5691
−300
−310
−320
−330
−340
−350
pull
Entries 100
Mean −1586
Std Dev 0
6
4
2
0
−2
pull1D
Entries 100
Mean −0.04551
Std Dev 2.965
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

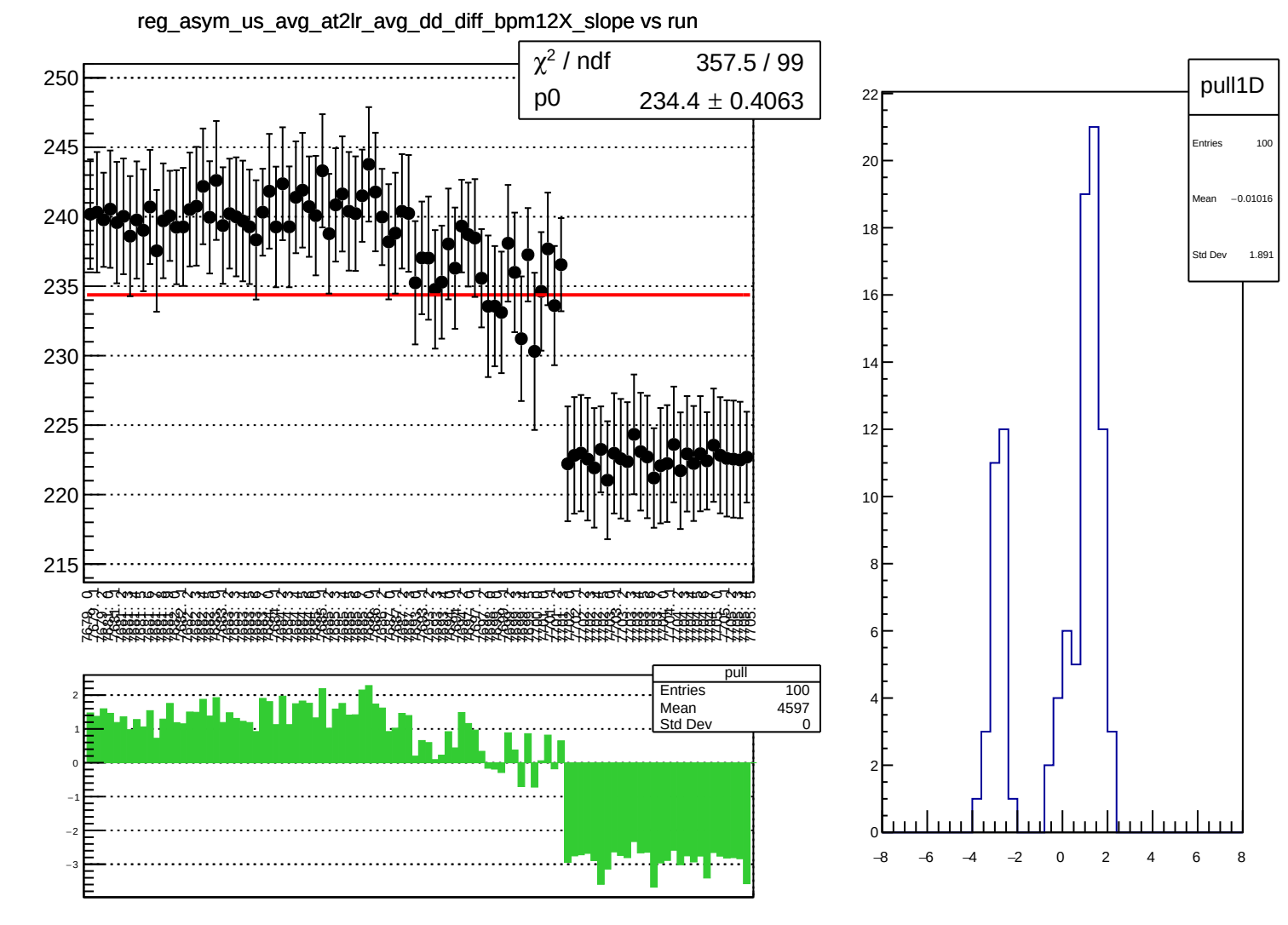

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 240.2 / 99
p0 549.3 ± 3.649
600
500
400
300
200
100
pull
Entries 100
Mean 105.3
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 100
Mean −0.5992
Std Dev 1.429
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

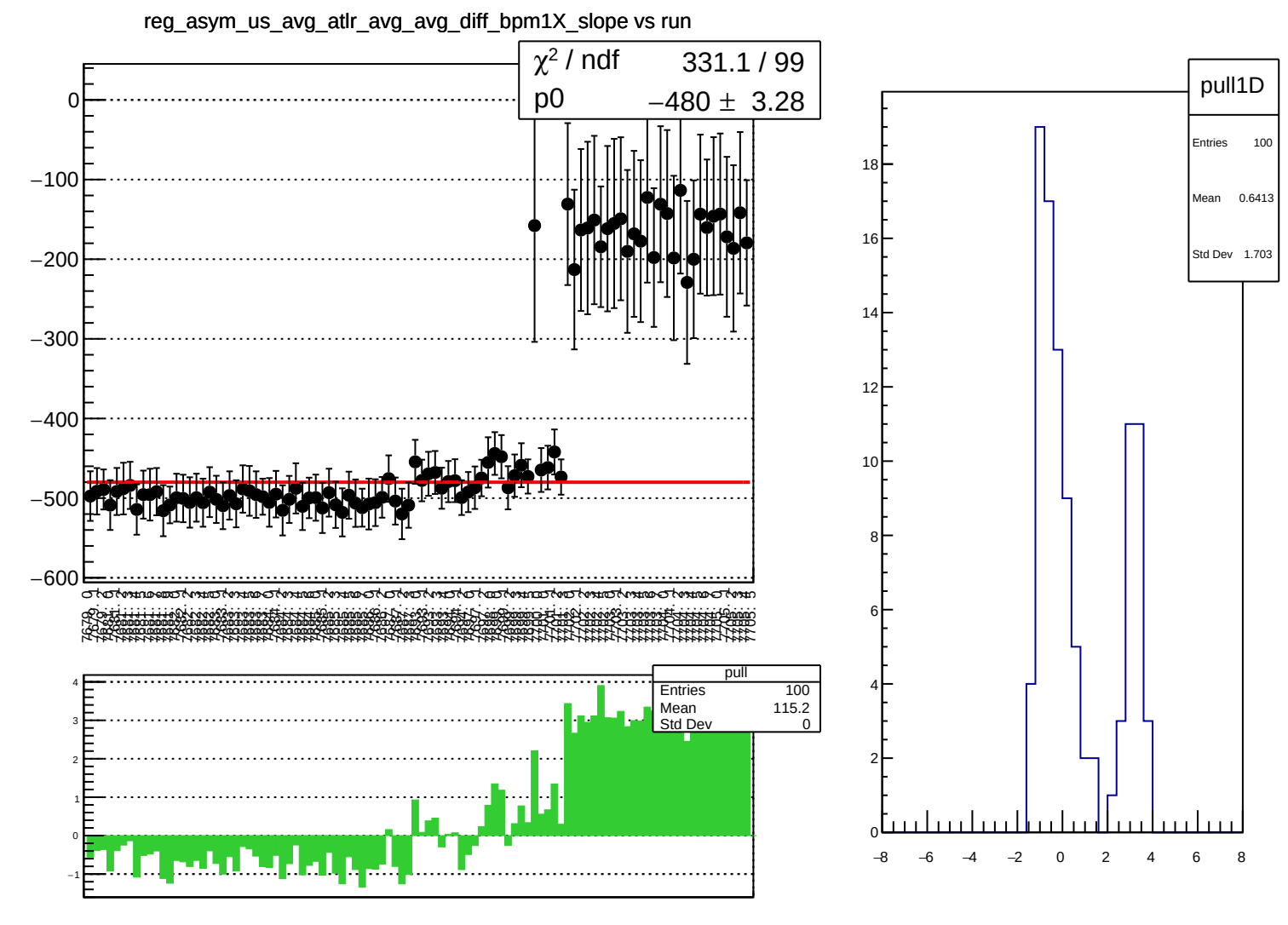

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.73 / 99
p0 −64.4 ± 5.074
200
100
0
−100
−200
−300
pull
Entries 100
Mean 37.78
Std Dev 40.78
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 100
Mean −0.08704
Std Dev 0.3157
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

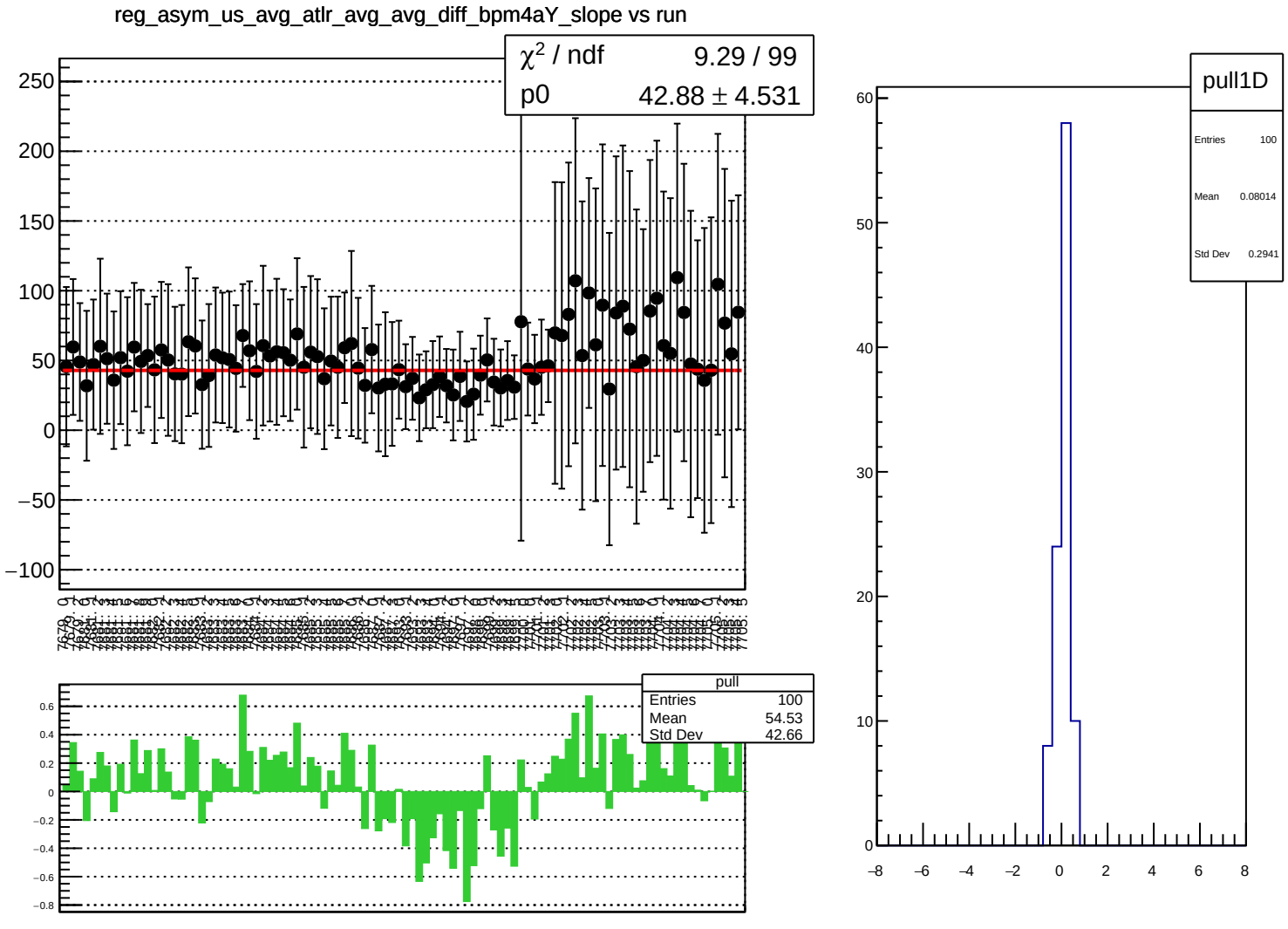

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 249.2 / 99
p0 −536.5 ± 2.932
pull
Entries 100
Mean 103
Std Dev 0
pull1D
Entries 100
Mean 0.6368
Std Dev 1.444

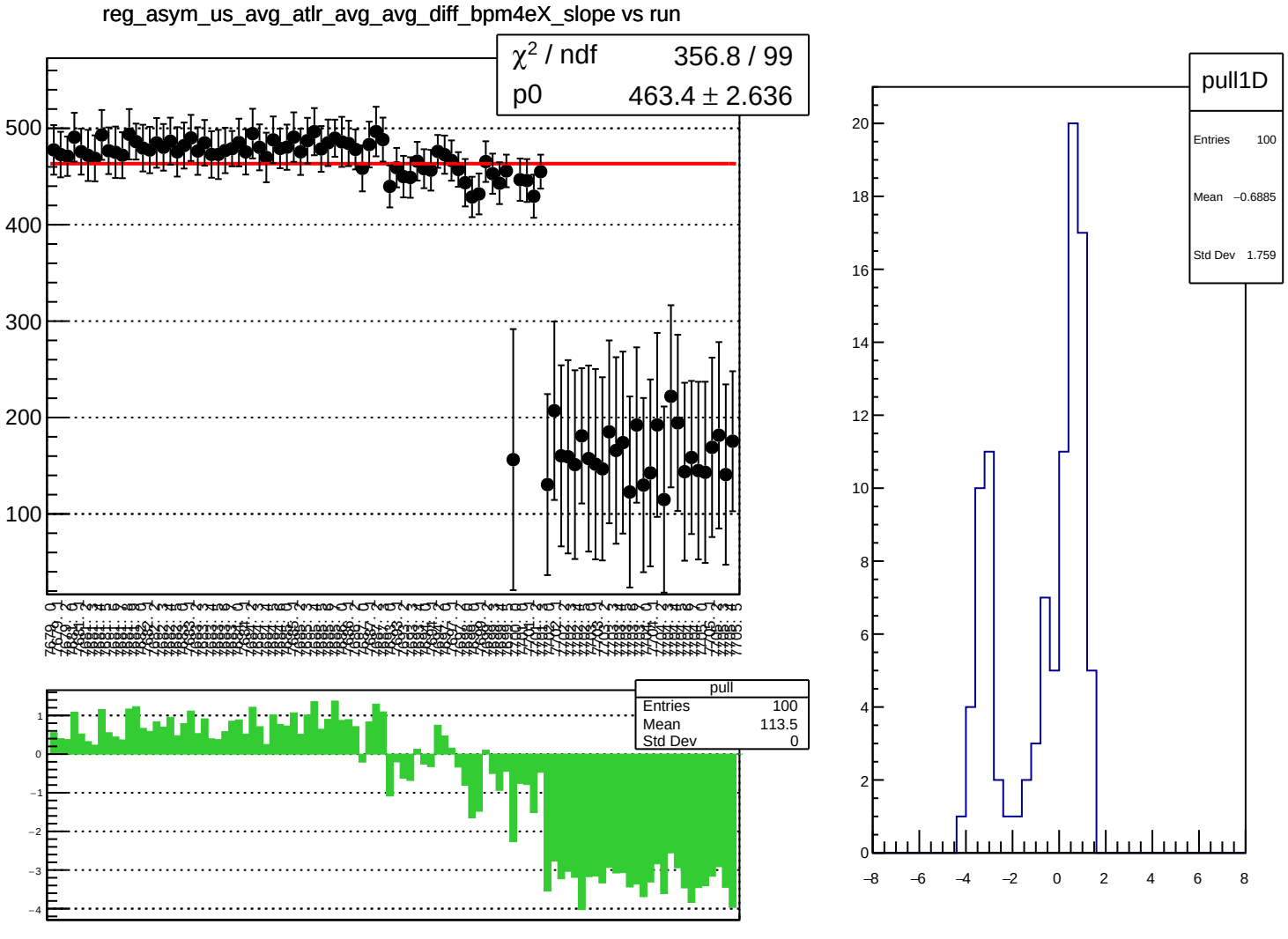

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.421 / 99
p0 −27.19 ± 7.625
200
100
0
−100
−200
−300
pull
Entries 100
Mean 42.68
Std Dev 44.32
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

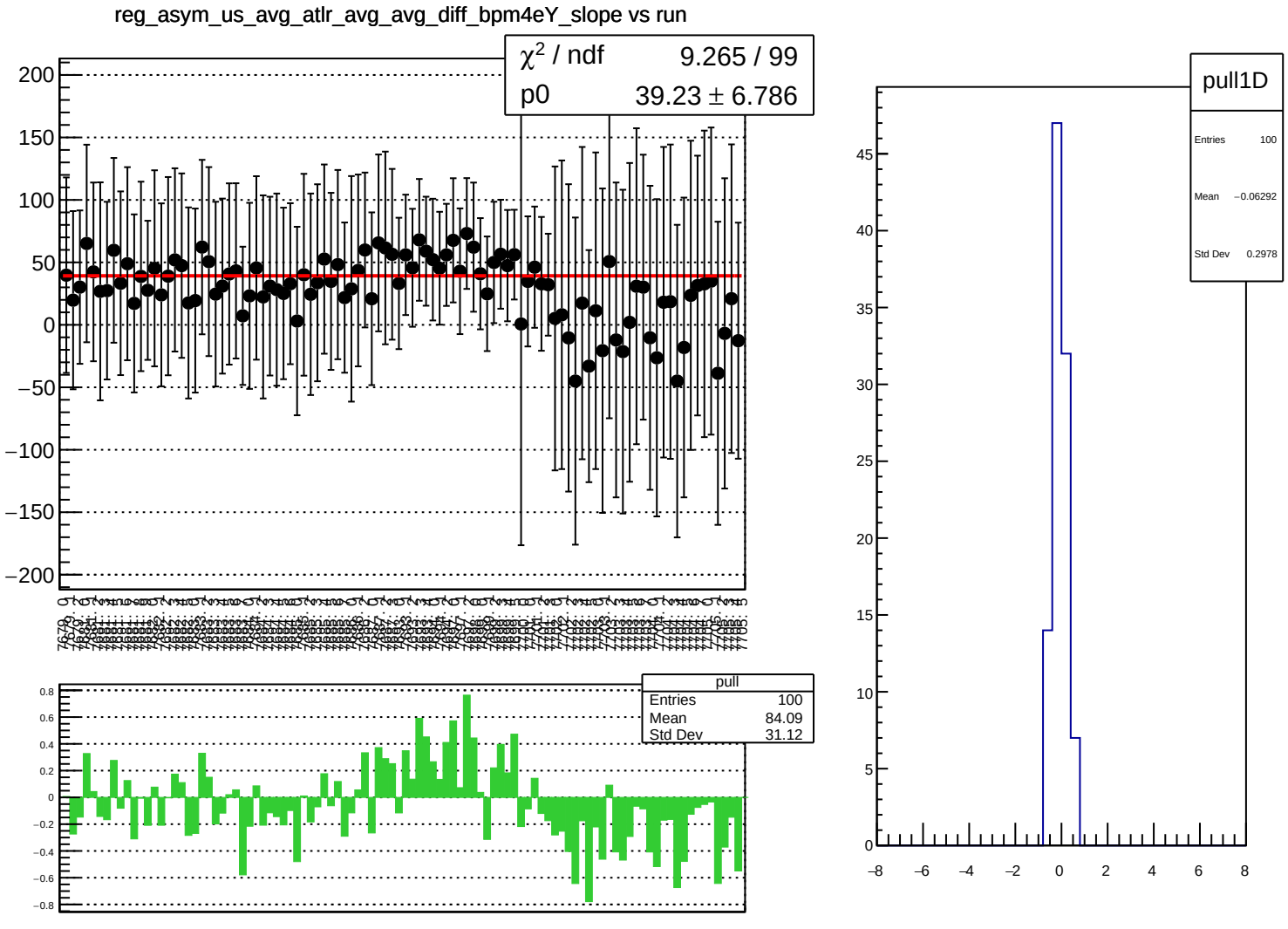

pull1D
Entries 100
Mean 0.06953
Std Dev 0.299
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

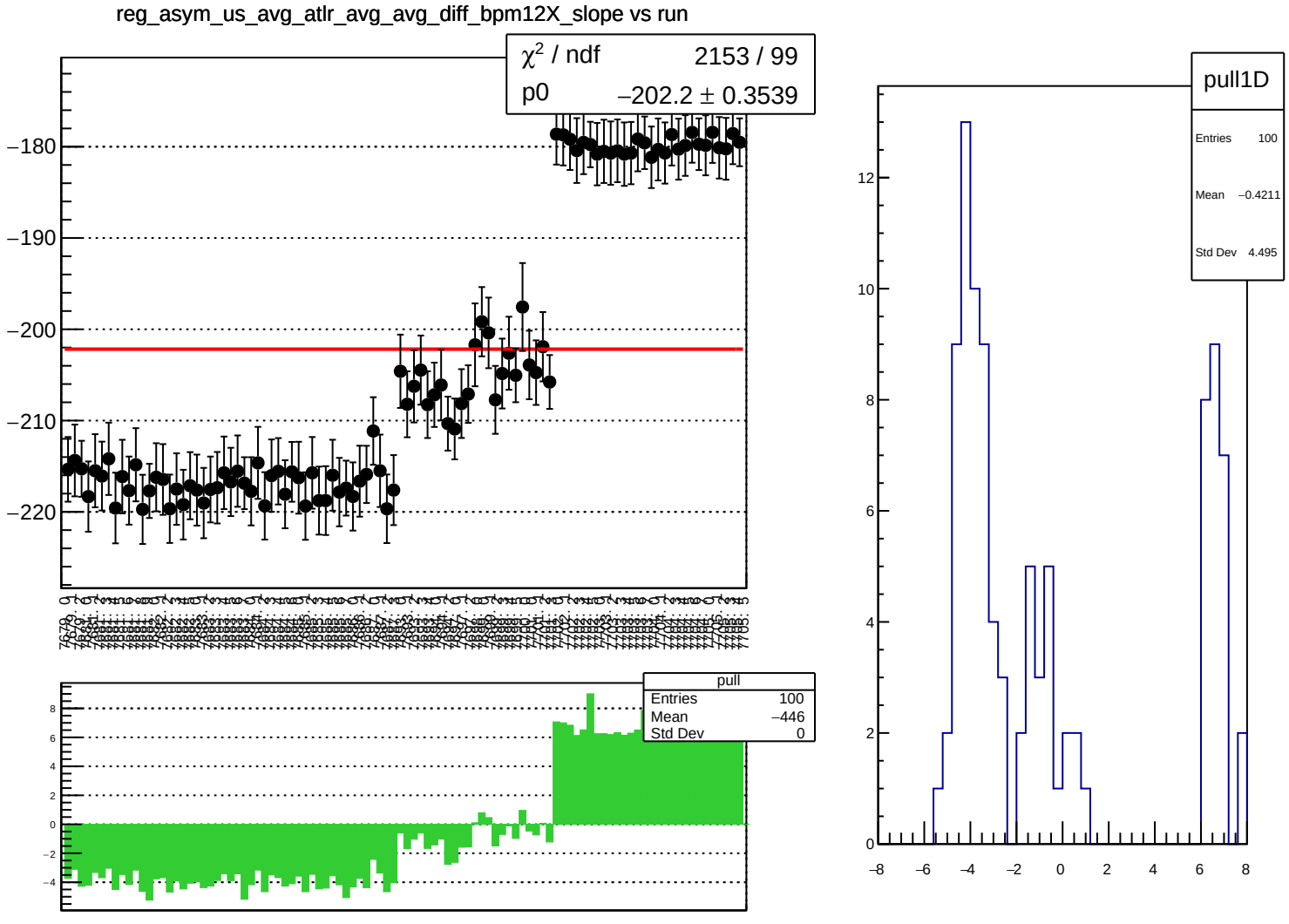

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 357.5 / 99
p0 234.4 ± 0.4063
250
245
240
235
230
225
220
215
pull
Entries 100
Mean 4597
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean −0.01016
Std Dev 1.891
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

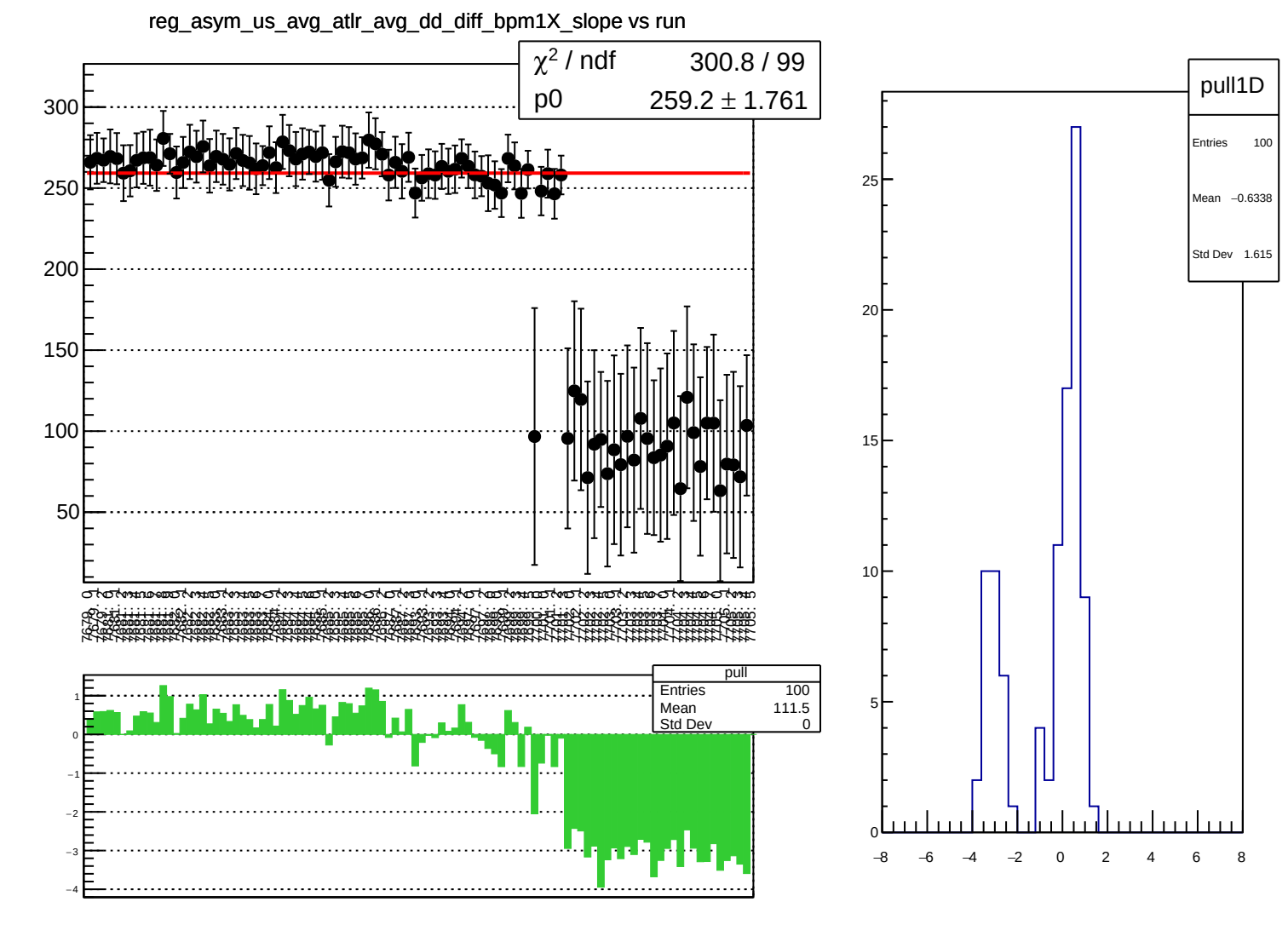

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 331.1 / 99
p0 −480 ± 3.28
pull
Entries 100
Mean 115.2
Std Dev 0
pull1D
Entries 100
Mean 0.6413
Std Dev 1.703

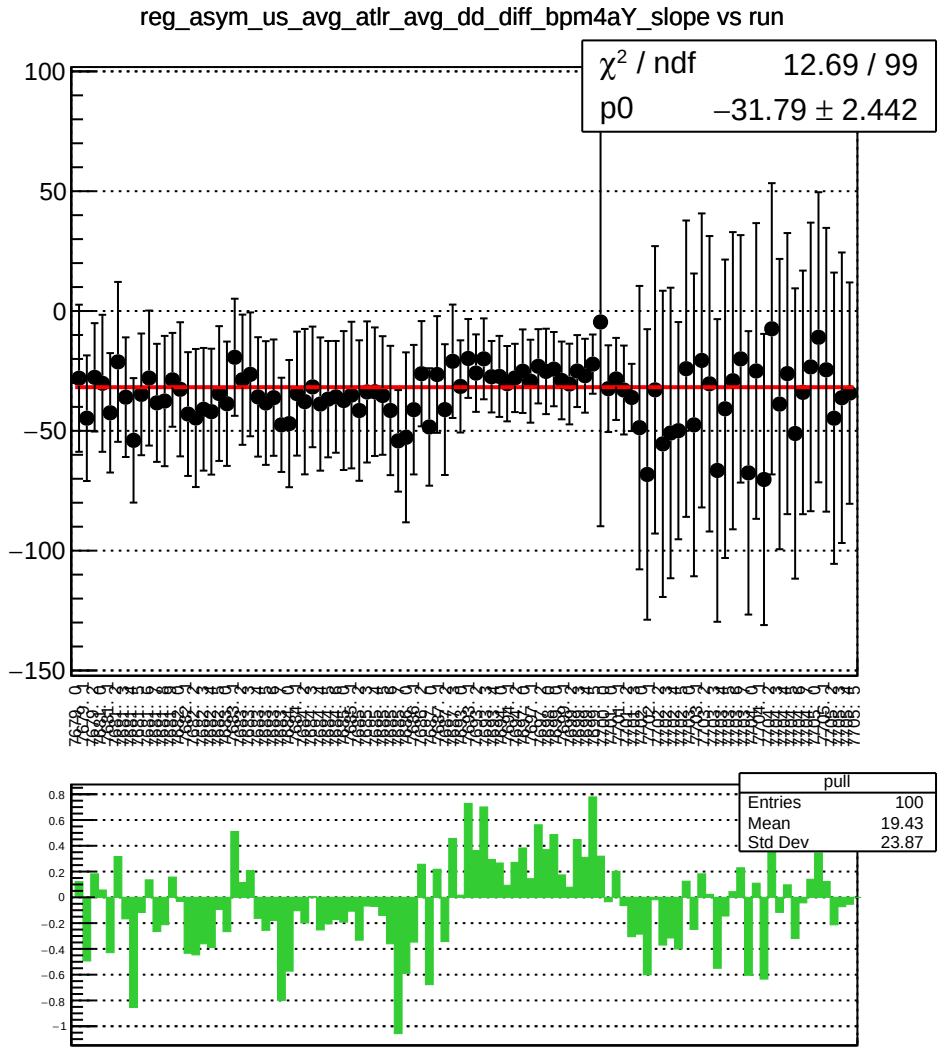

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.29 / 99
p0 42.88 ± 4.531
250
200
150
100
50
0
−50
−100
pull
Entries 100
Mean 54.53
Std Dev 42.66
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 100
Mean 0.08014
Std Dev 0.2941
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

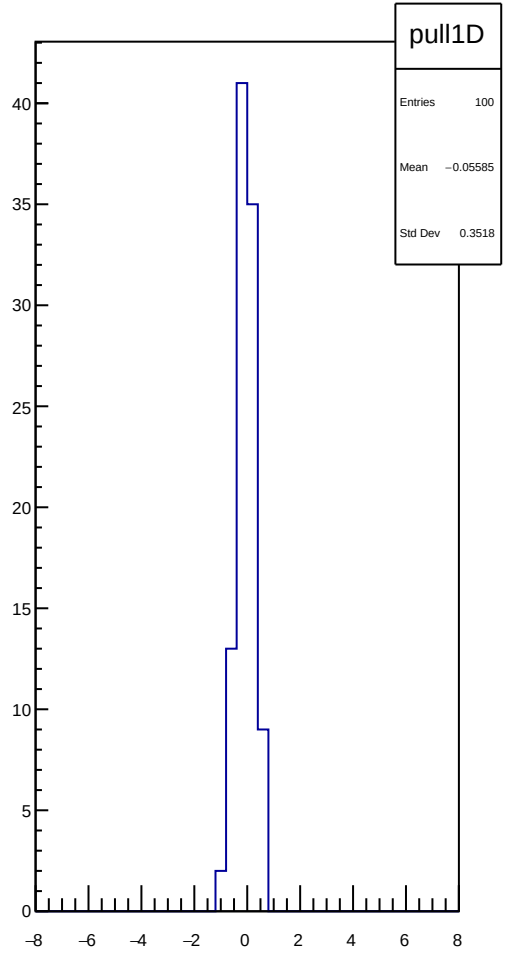

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 356.8 / 99
p0 463.4 ± 2.636
500
400
300
200
100
pull
Entries 100
Mean 113.5
Std Dev 0
1
0
−1
−2
−3
−4
pull1D
Entries 100
Mean −0.6885
Std Dev 1.759
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

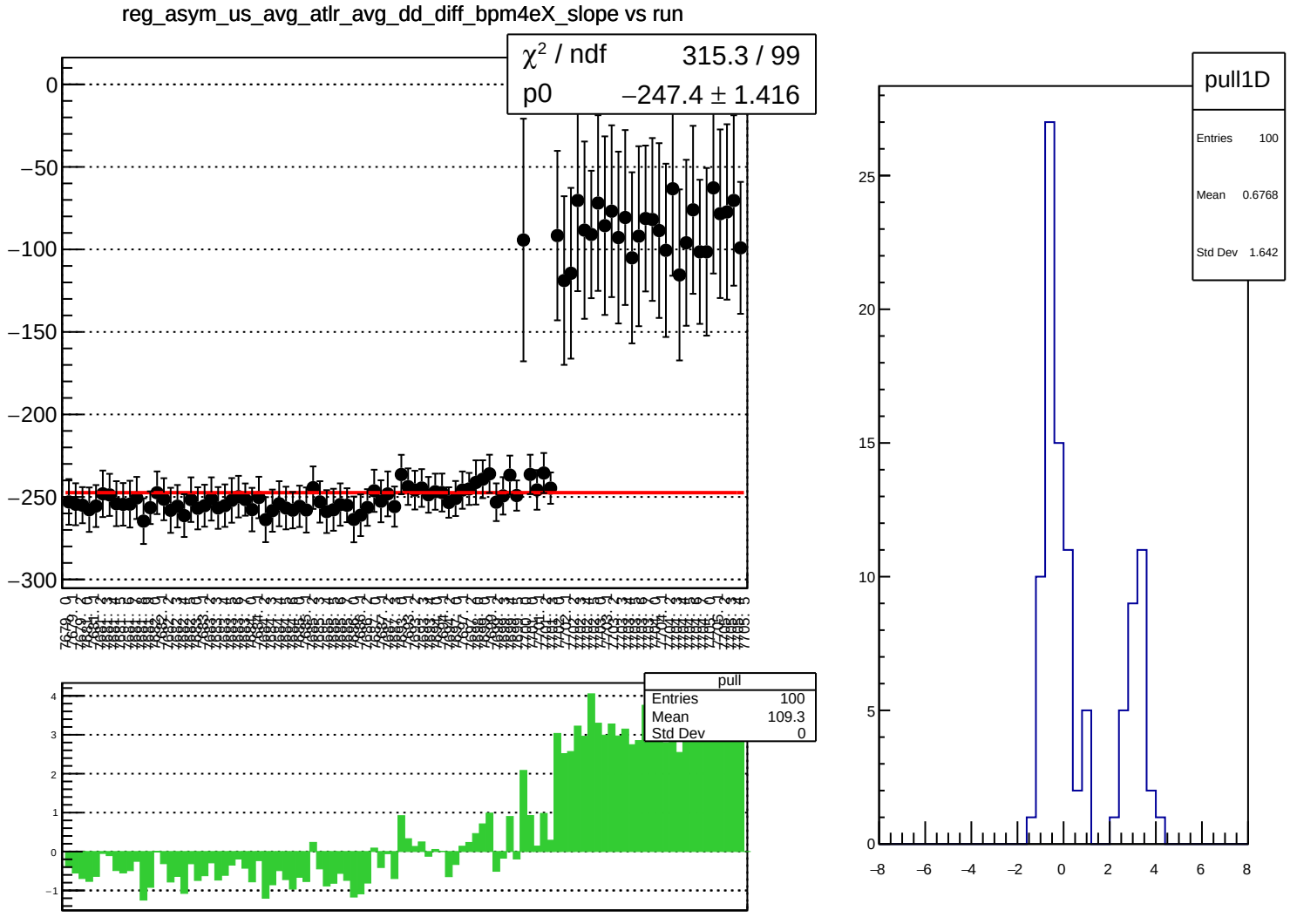

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.265 / 99
p0 39.23 ± 6.786
pull
Entries 100
Mean 84.09
Std Dev 31.12
pull1D
Entries 100
Mean −0.06292
Std Dev 0.2978

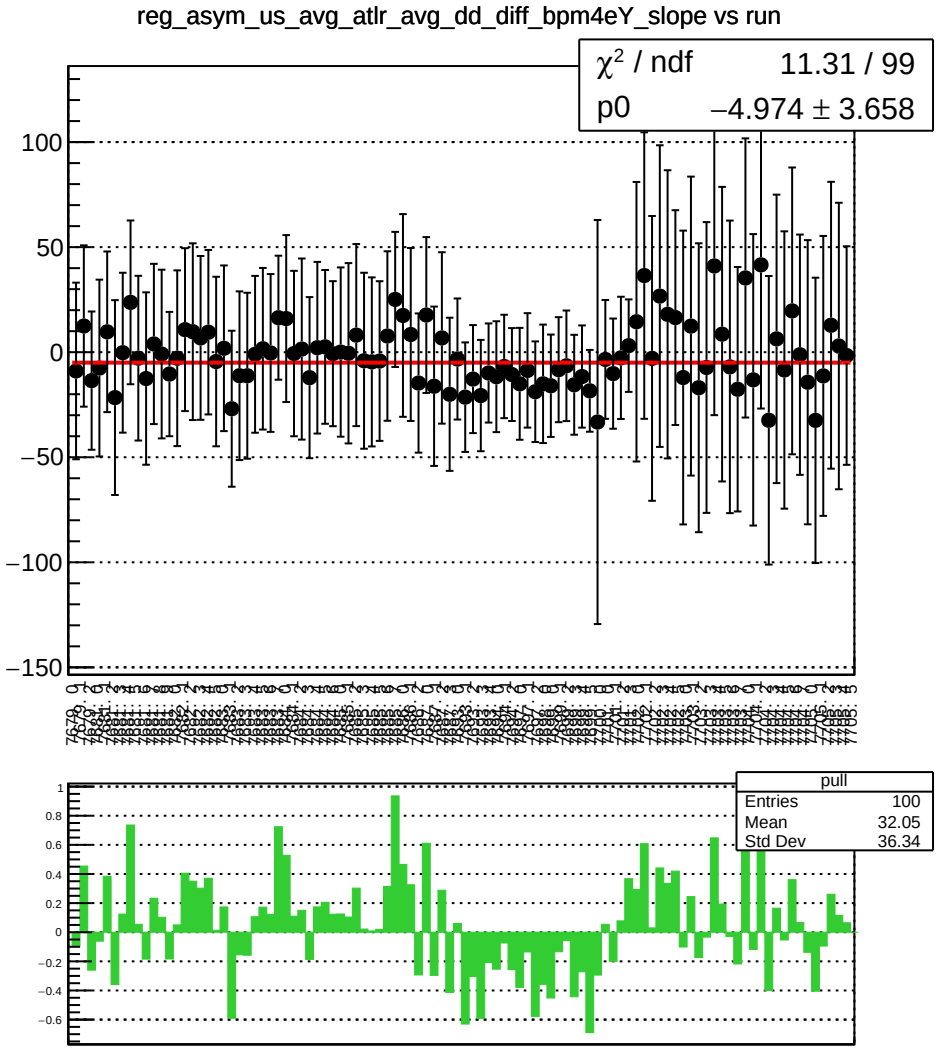

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 2153 / 99
p0 −202.2 ± 0.3539
−180
−190
−200
−210
−220
pull
Entries 100
Mean −446
Std Dev 0
8
6
4
2
0
−2
−4
pull1D
Entries 100
Mean −0.4211
Std Dev 4.495
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

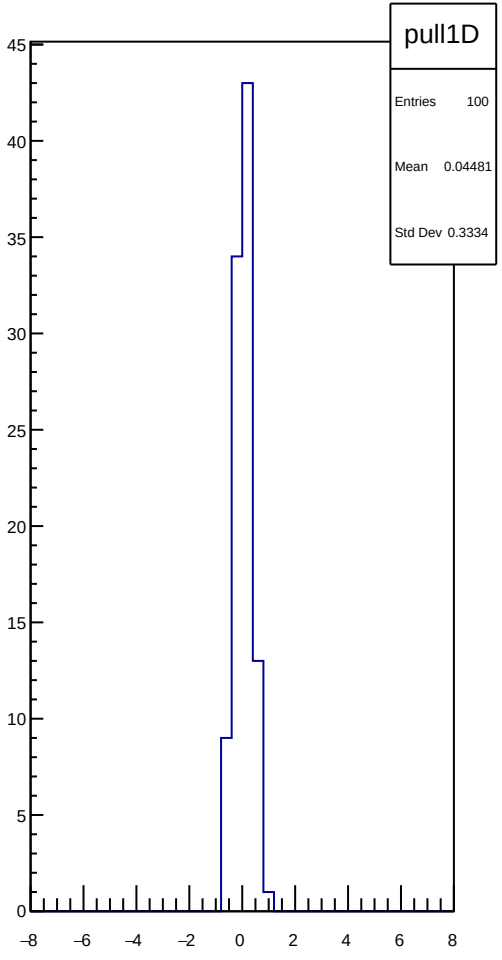

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 300.8 / 99
p0 259.2 ± 1.761
300
250
200
150
100
50
pull
Entries 100
Mean 111.5
Std Dev 0
1
0
−1
−2
−3
−4
pull1D
Entries 100
Mean −0.6338
Std Dev 1.615
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

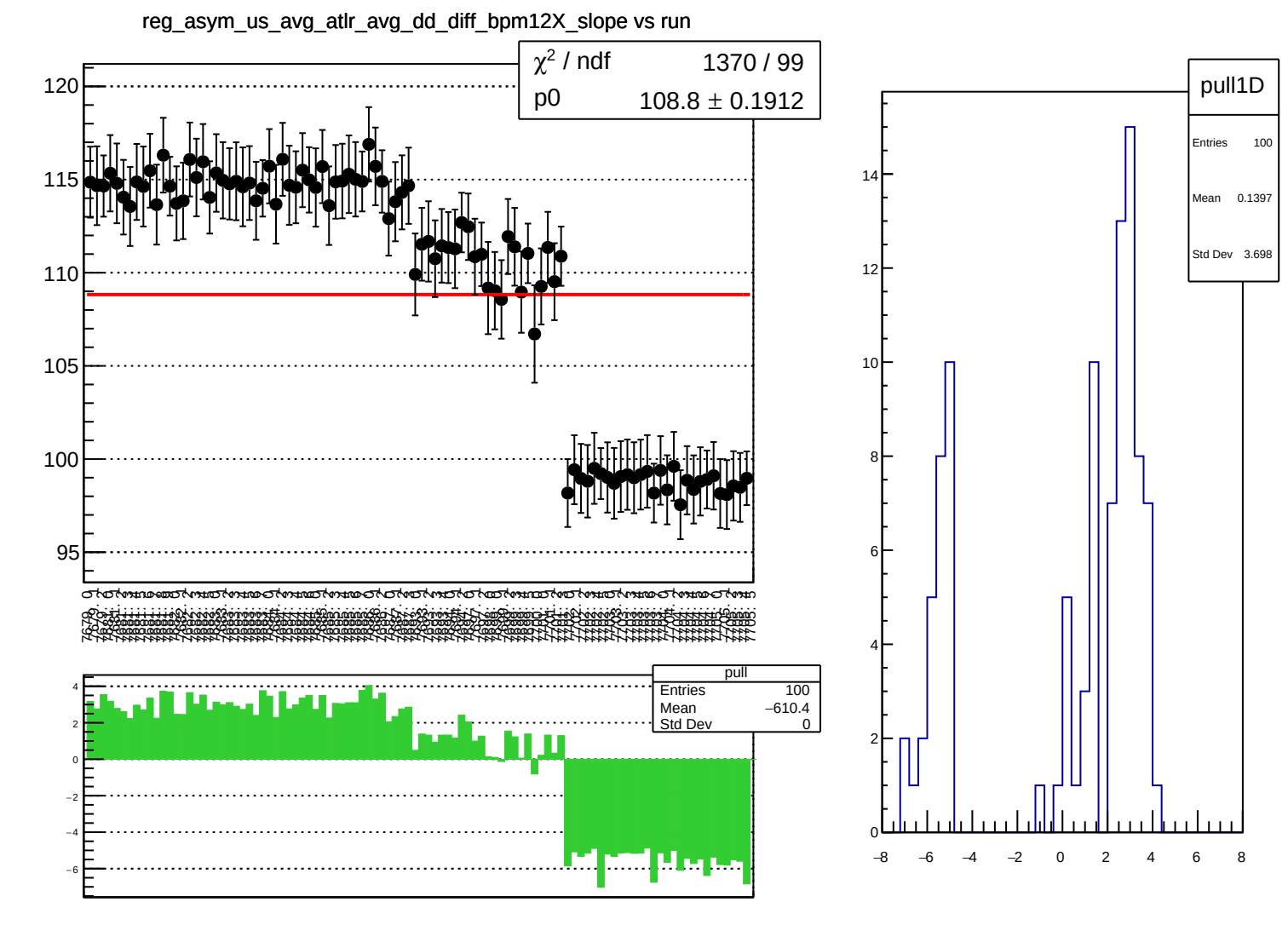

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.69 / 99
p0 −31.79 ± 2.442
pull
Entries 100
Mean 19.43
Std Dev 23.87

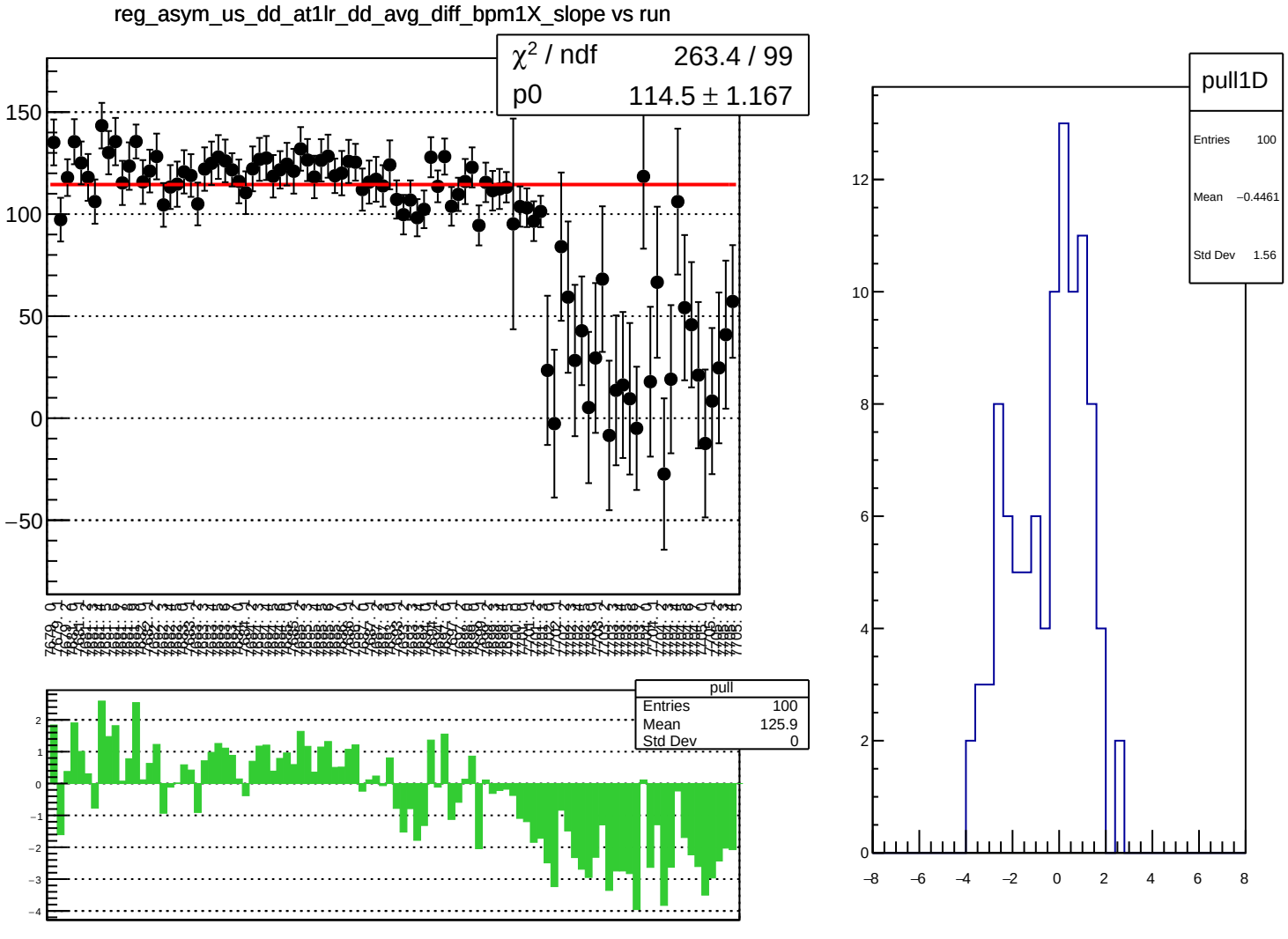

pull1D
Entries 100
Mean −0.05585
Std Dev 0.3518

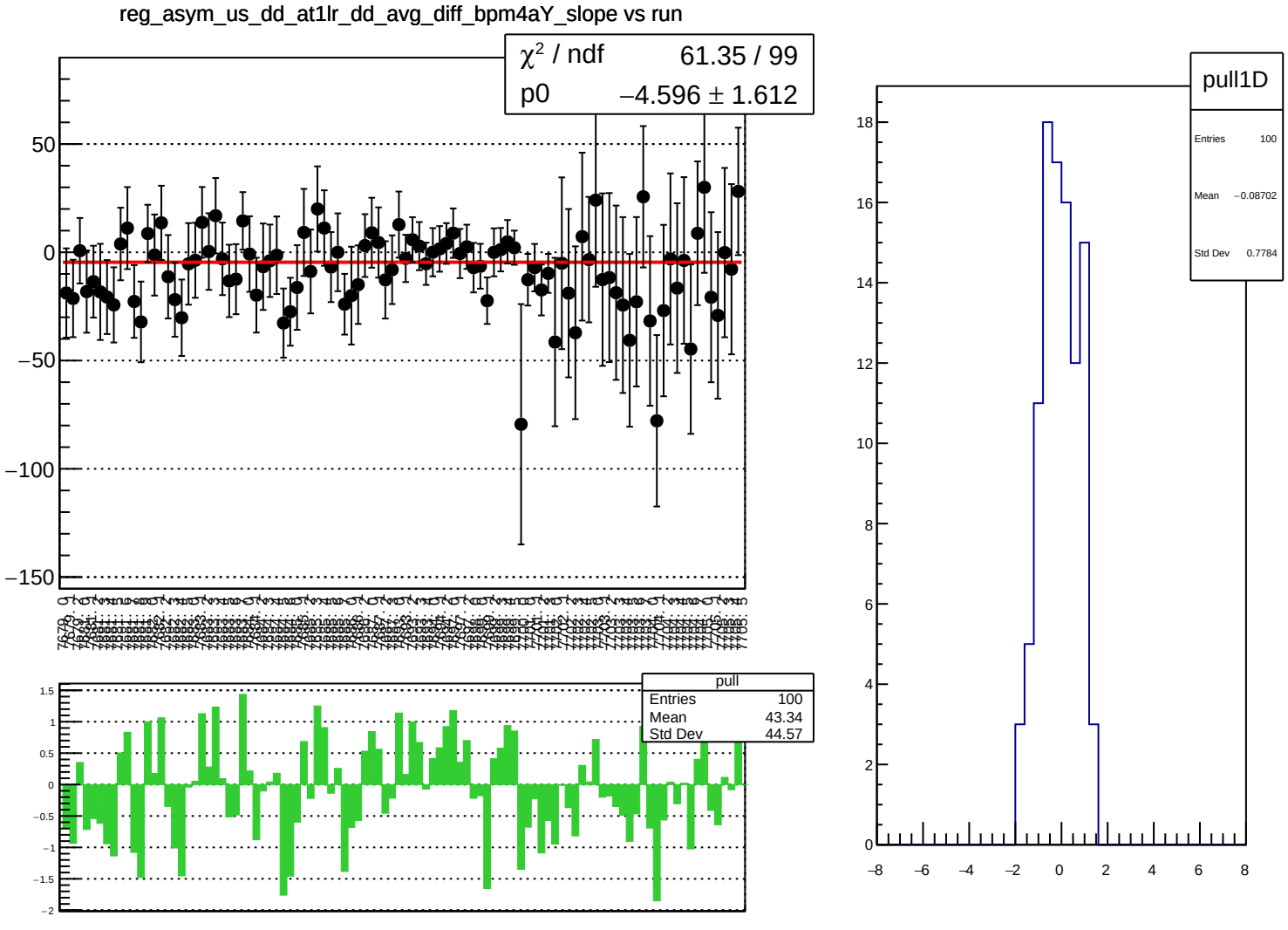

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 315.3 / 99
p0 −247.4 ± 1.416
0
−50
−100
−150
−200
−250
−300
pull
Entries 100
Mean 109.3
Std Dev 0
4
3
2
1
0
−1
pull1D
Entries 100
Mean 0.6768
Std Dev 1.642
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

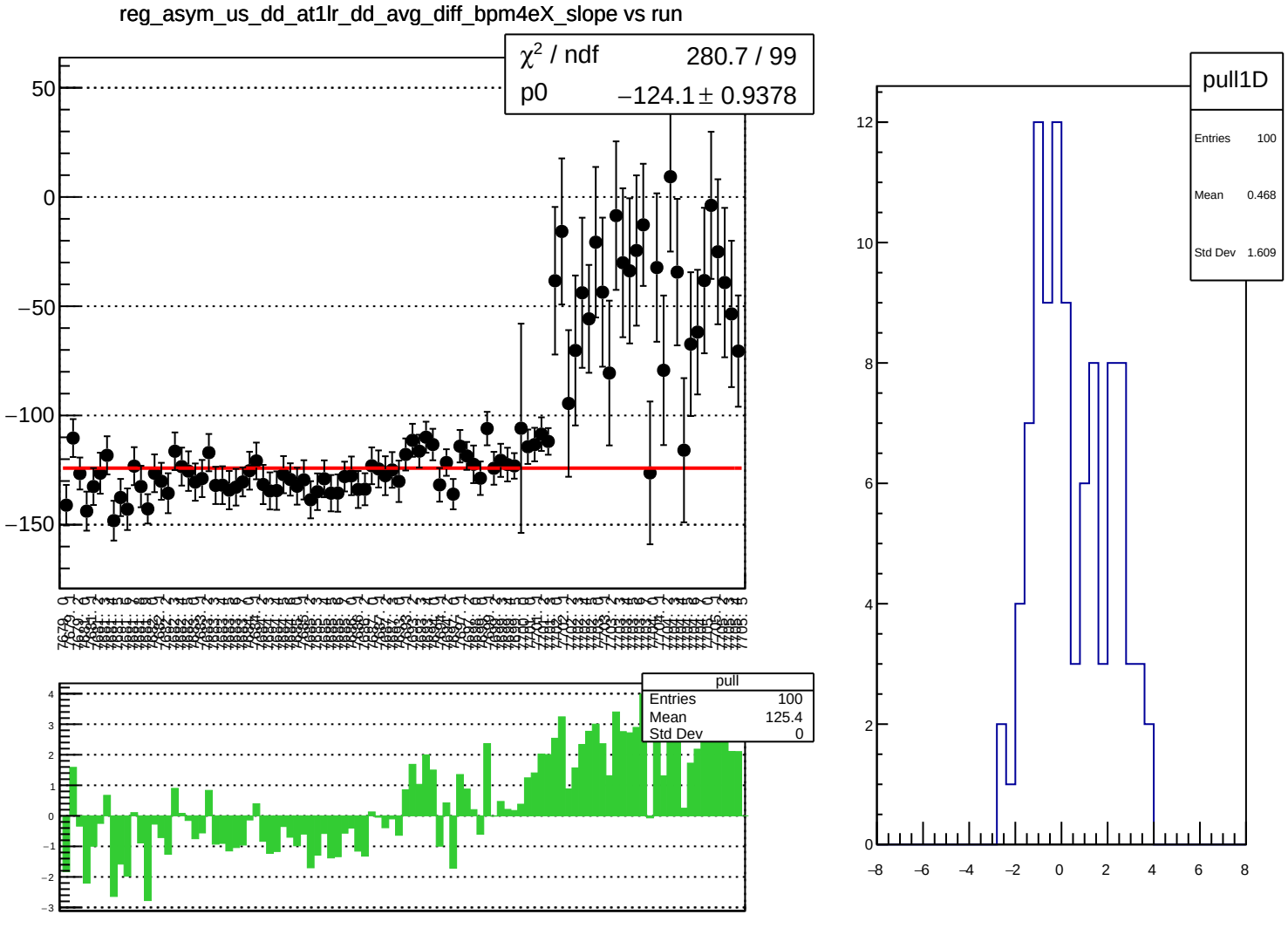

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.31 / 99
p0 −4.974 ± 3.658
pull
Entries 100
Mean 32.05
Std Dev 36.34

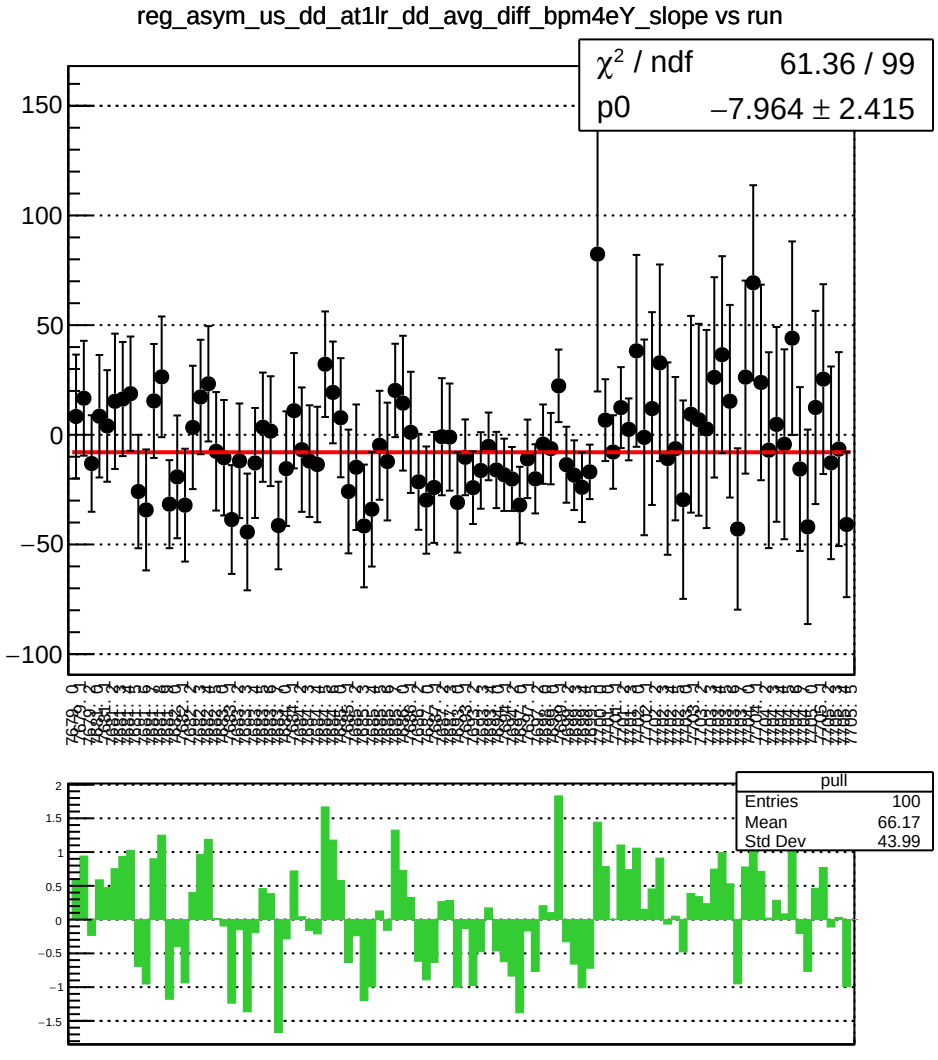

pull1D
Entries 100
Mean 0.04481
Std Dev 0.3334

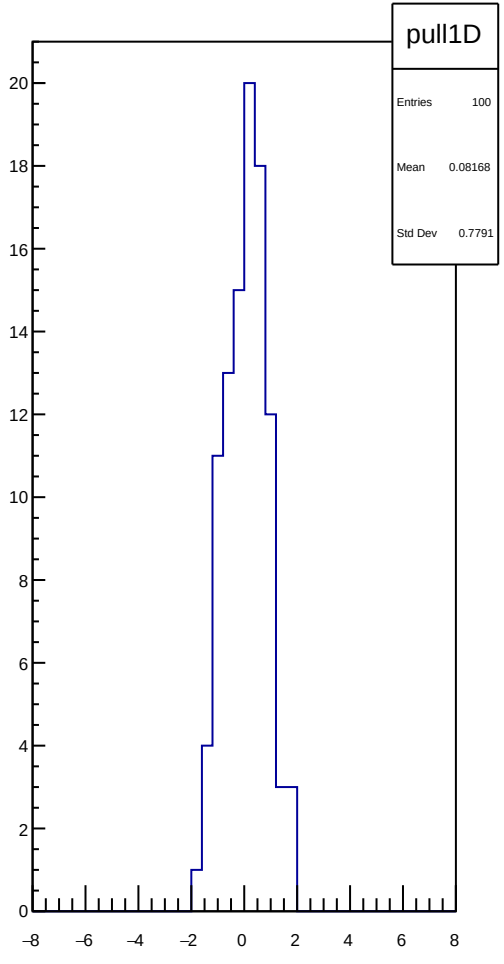

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 1370 / 99
p0 108.8 ± 0.1912
120
115
110
105
100
95
pull
Entries 100
Mean −610.4
Std Dev 0
4
2
0
−2
−4
−6
pull1D
Entries 100
Mean 0.1397
Std Dev 3.698
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

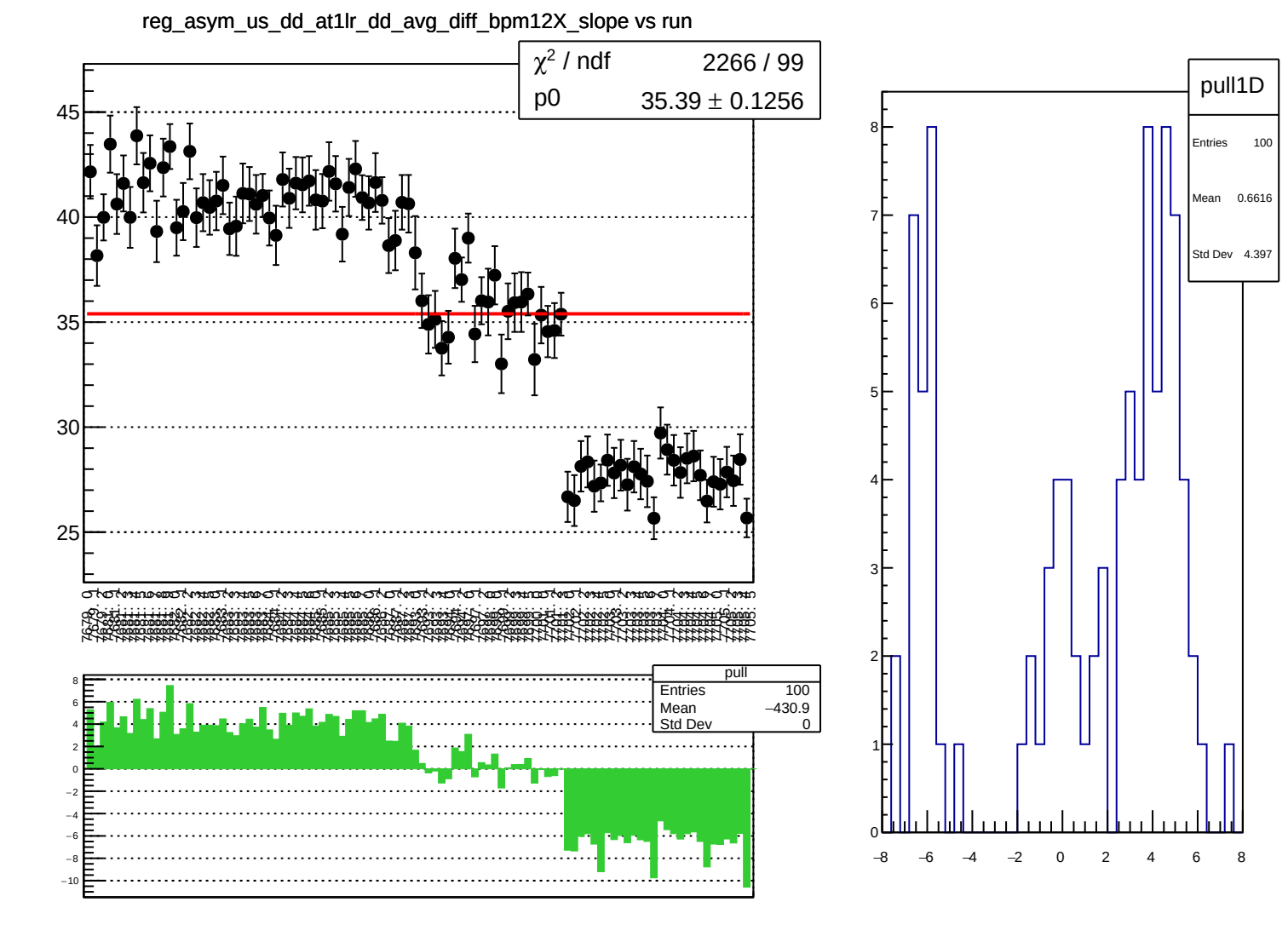

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 263.4 / 99
p0 114.5 ± 1.167
150
100
50
0
−50
pull
Entries 100
Mean 125.9
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 100
Mean −0.4461
Std Dev 1.56
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

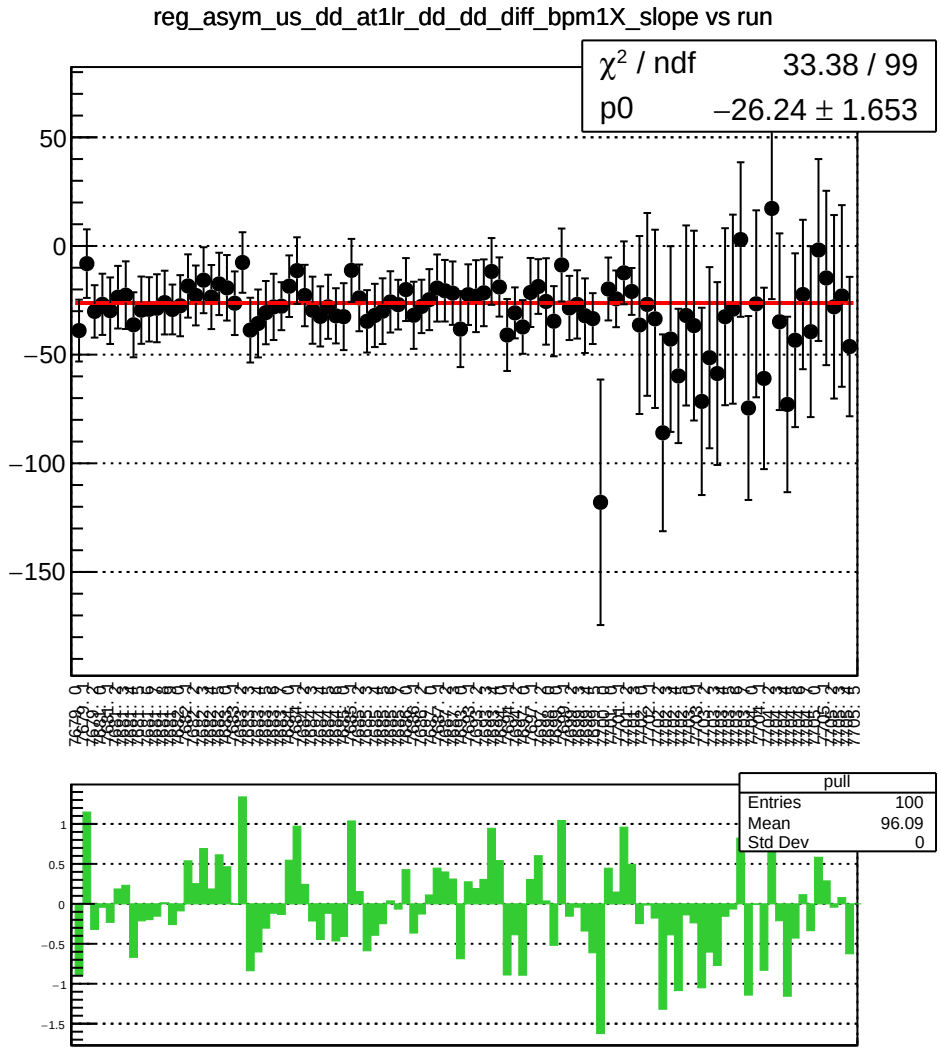

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 61.35 / 99
p0 −4.596 ± 1.612
pull
Entries 100
Mean 43.34
Std Dev 44.57
pull1D
Entries 100
Mean −0.08702
Std Dev 0.7784

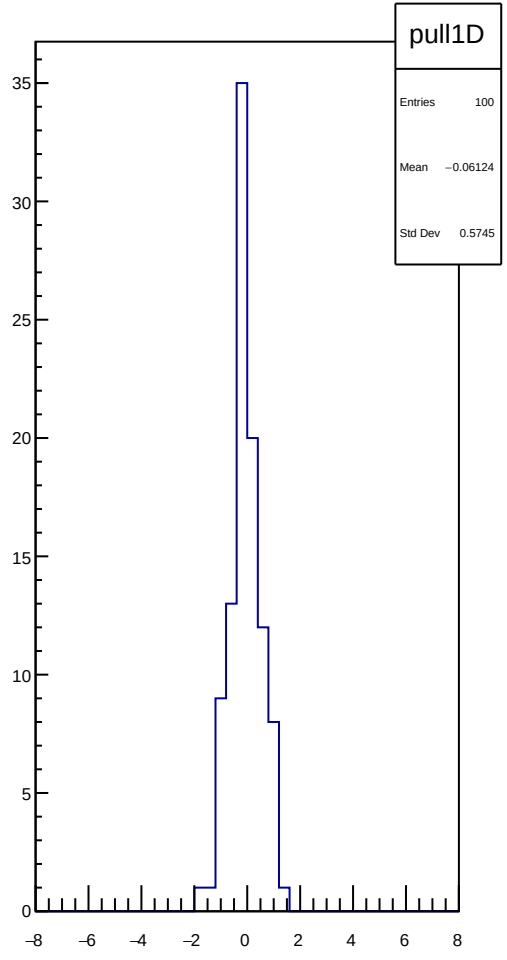

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 280.7 / 99
p0 −124.1 ± 0.9378
50
0
−50
−100
−150
pull
Entries 100
Mean 125.4
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean 0.468
Std Dev 1.609
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

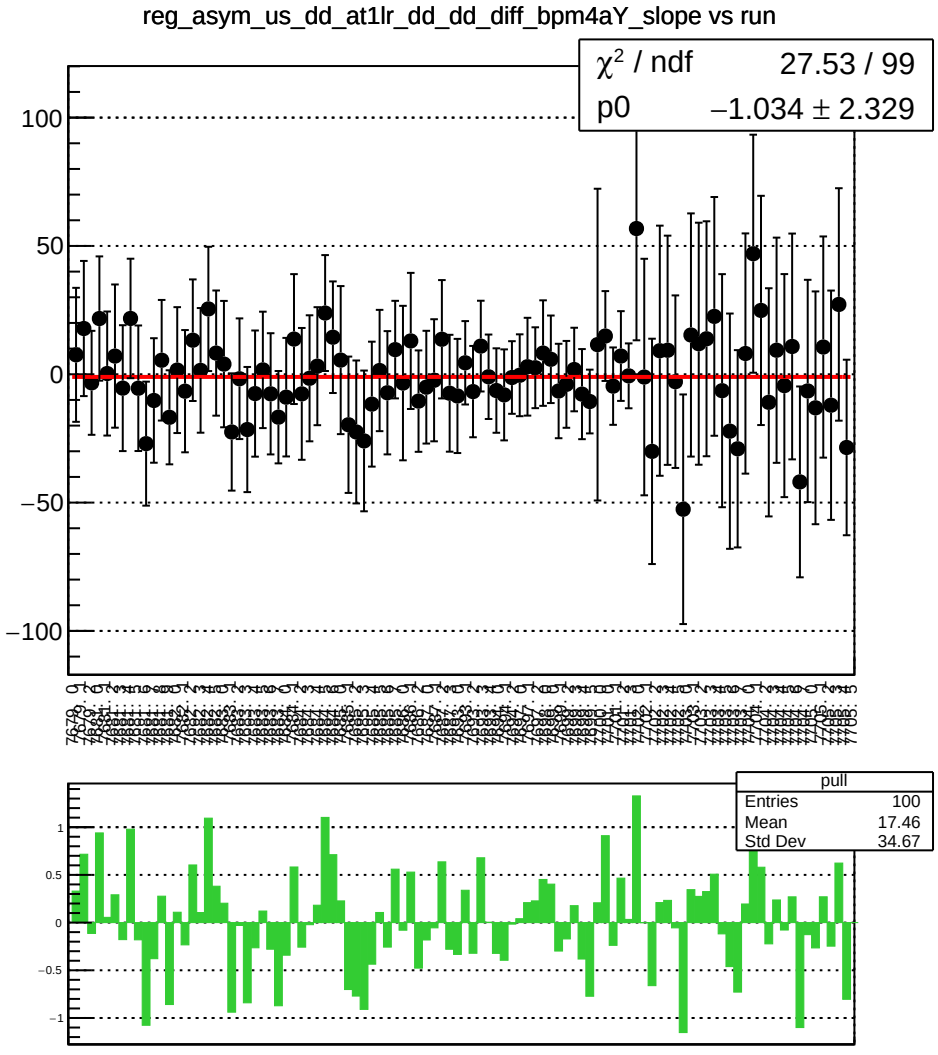

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 61.36 / 99
p0 −7.964 ± 2.415
150
100
50
0
−50
−100
pull
Entries 100
Mean 66.17
Std Dev 43.99
2
1.5
1
0.5
0
−0.5
−1
−1.5

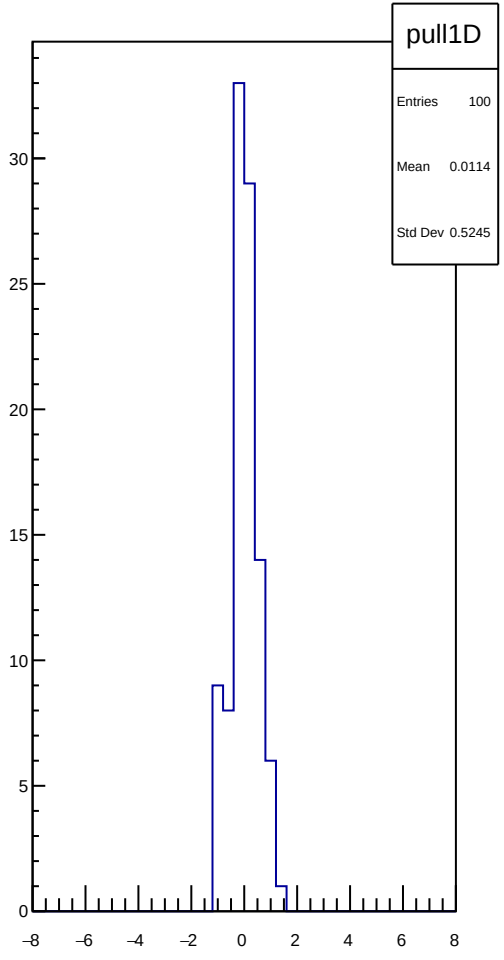

pull1D
Entries 100
Mean 0.08168
Std Dev 0.7791
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

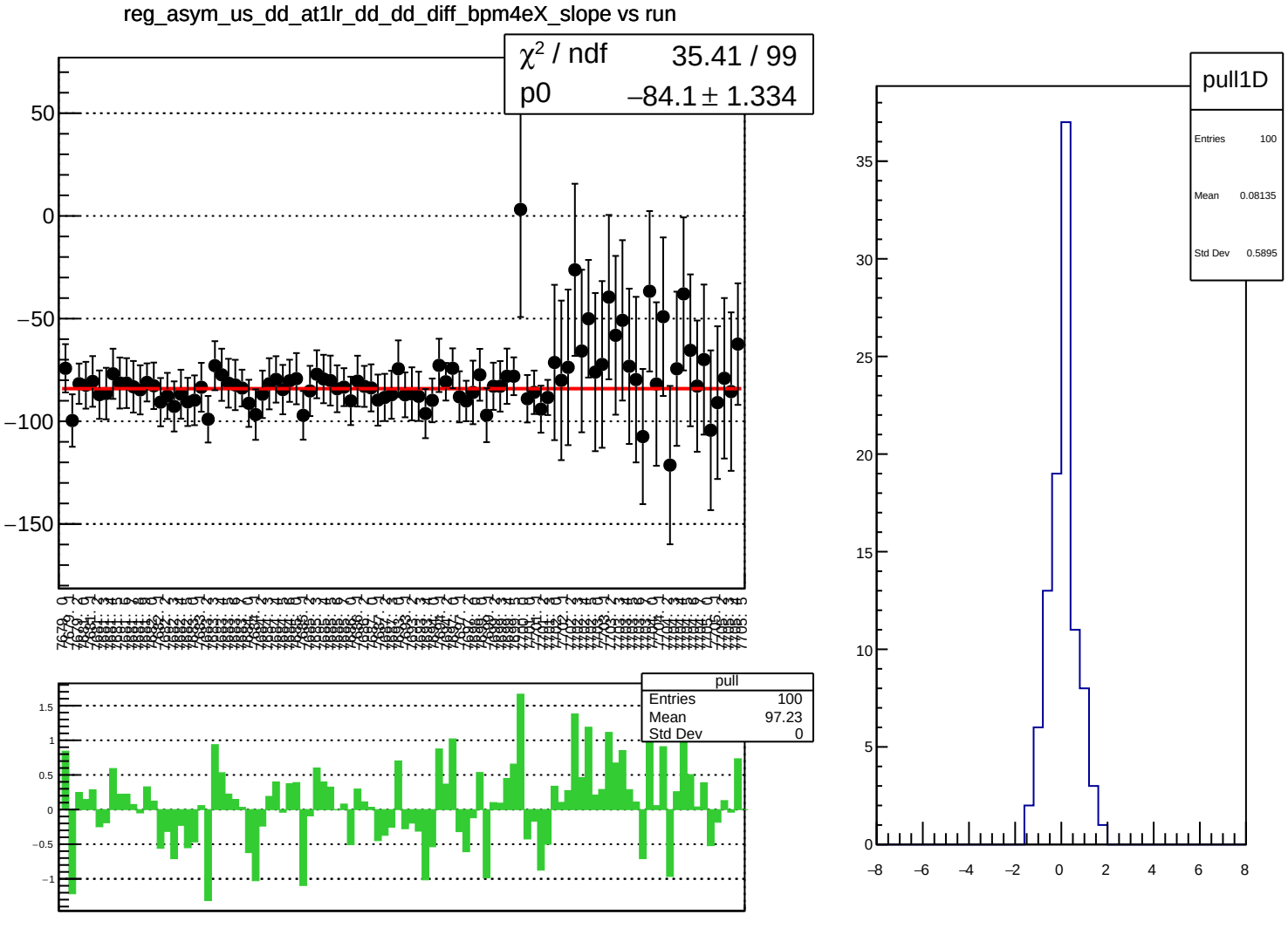

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 2266 / 99
p0 35.39 ± 0.1256
pull
Entries 100
Mean −430.9
Std Dev 0
pull1D
Entries 100
Mean 0.6616
Std Dev 4.397

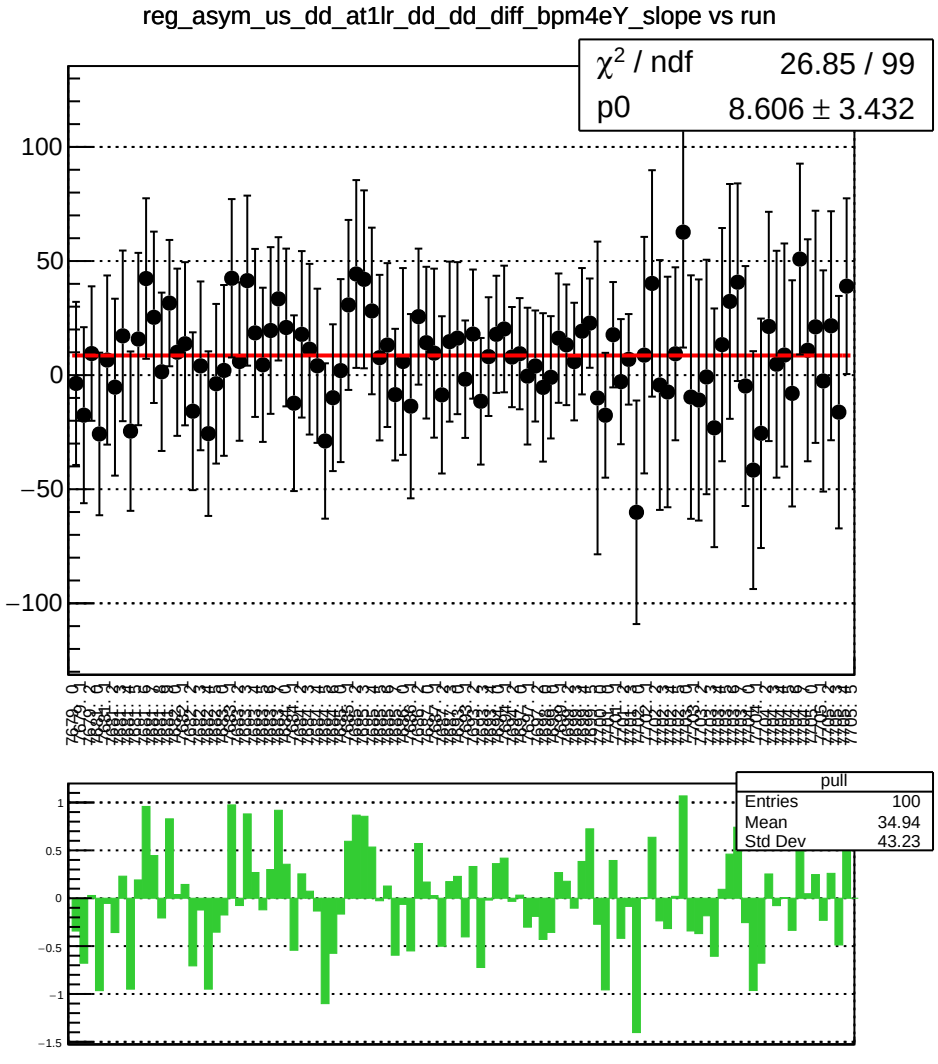

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 33.38 / 99
p0 −26.24 ± 1.653
50
0
−50
−100
−150
pull
Entries 100
Mean 96.09
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

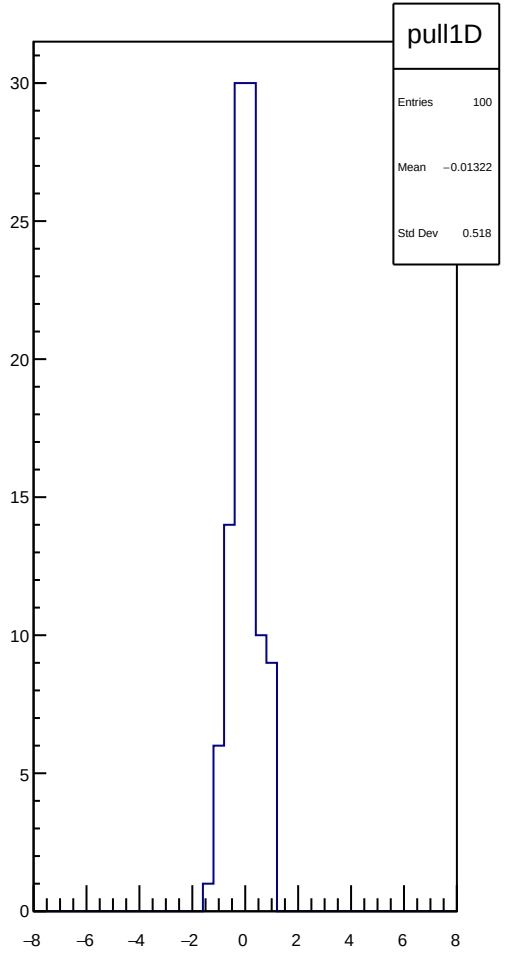

pull1D
Entries 100
Mean −0.06124
Std Dev 0.5745
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

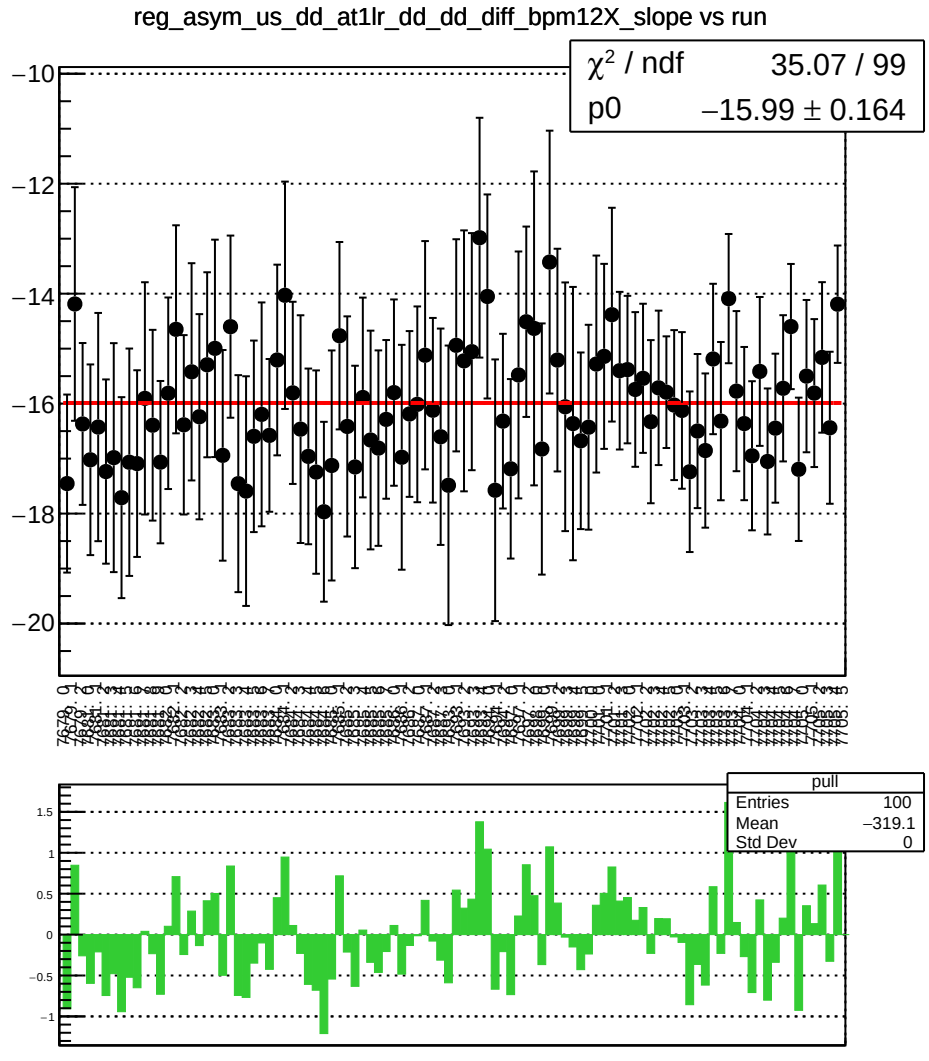

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 27.53 / 99
p0 −1.034 ± 2.329
100
50
0
−50
−100
pull
Entries 100
Mean 17.46
Std Dev 34.67
1
0.5
0
−0.5
−1

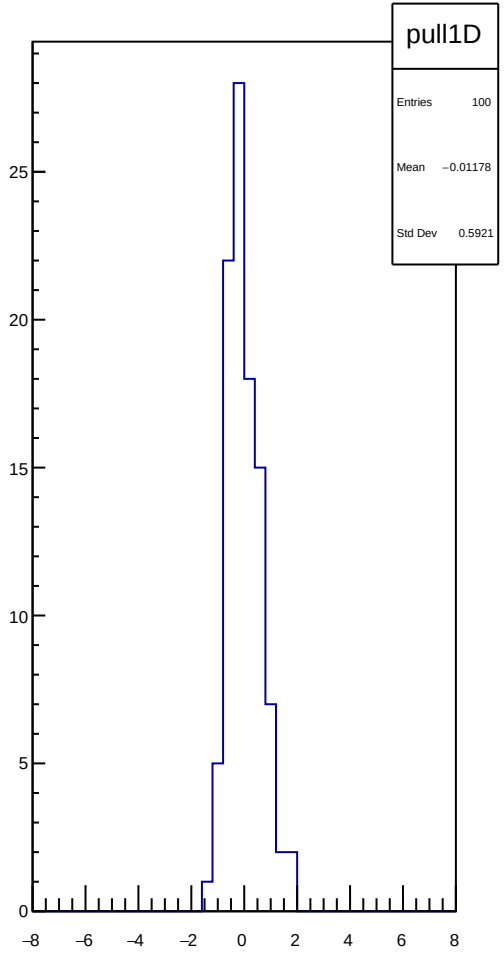

pull1D
Entries 100
Mean 0.0114
Std Dev 0.5245
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

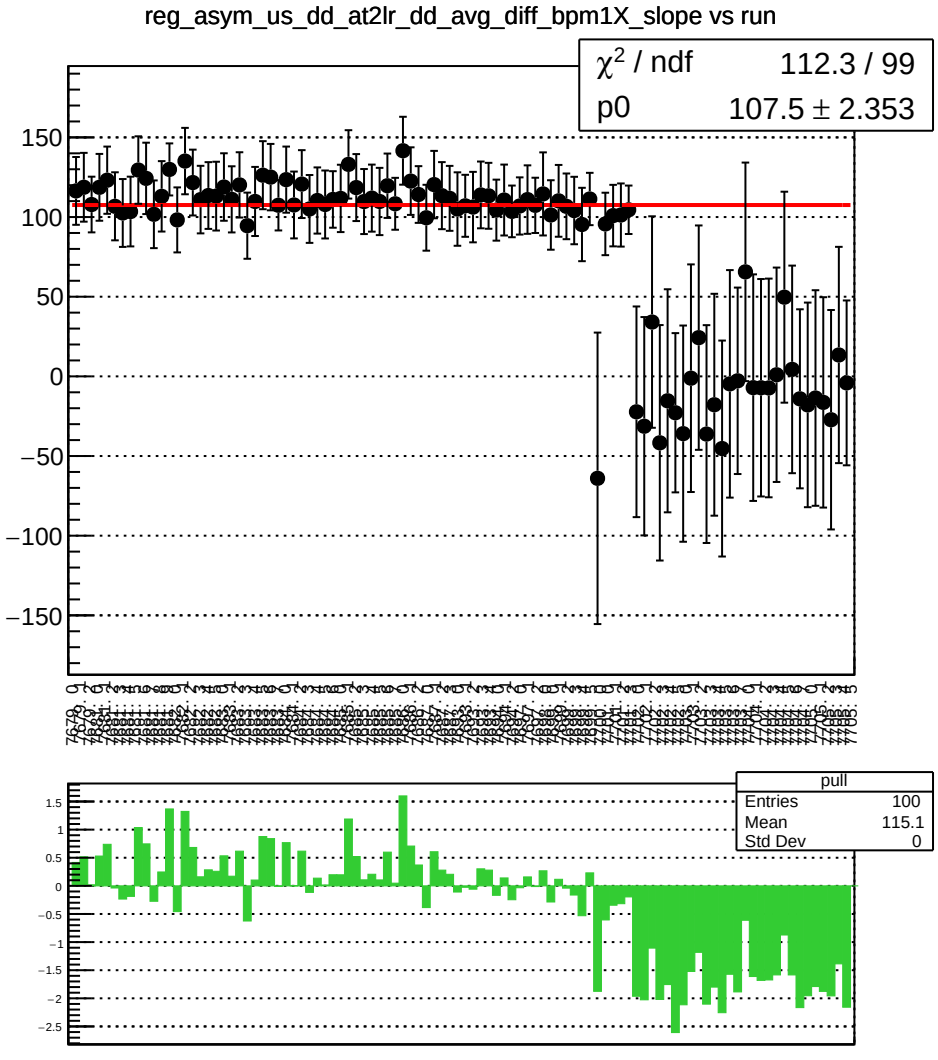

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 35.41 / 99
p0 −84.1 ± 1.334
50
0
−50
−100
−150
pull
Entries 100
Mean 97.23
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 100
Mean 0.08135
Std Dev 0.5895
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

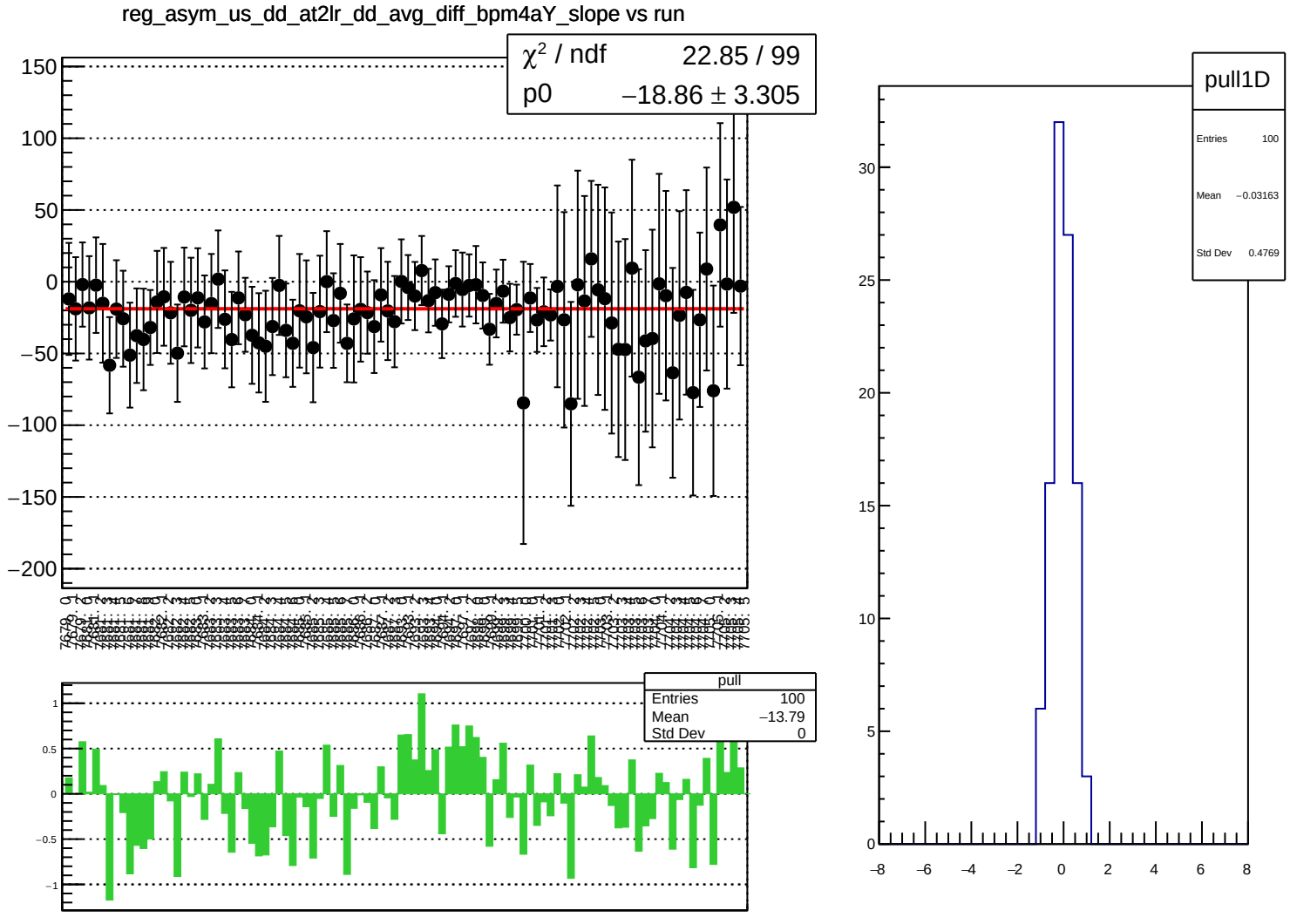

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 26.85 / 99
p0 8.606 ± 3.432
100
50
0
−50
−100
pull
Entries 100
Mean 34.94
Std Dev 43.23
1
0.5
0
−0.5
−1
−1.5

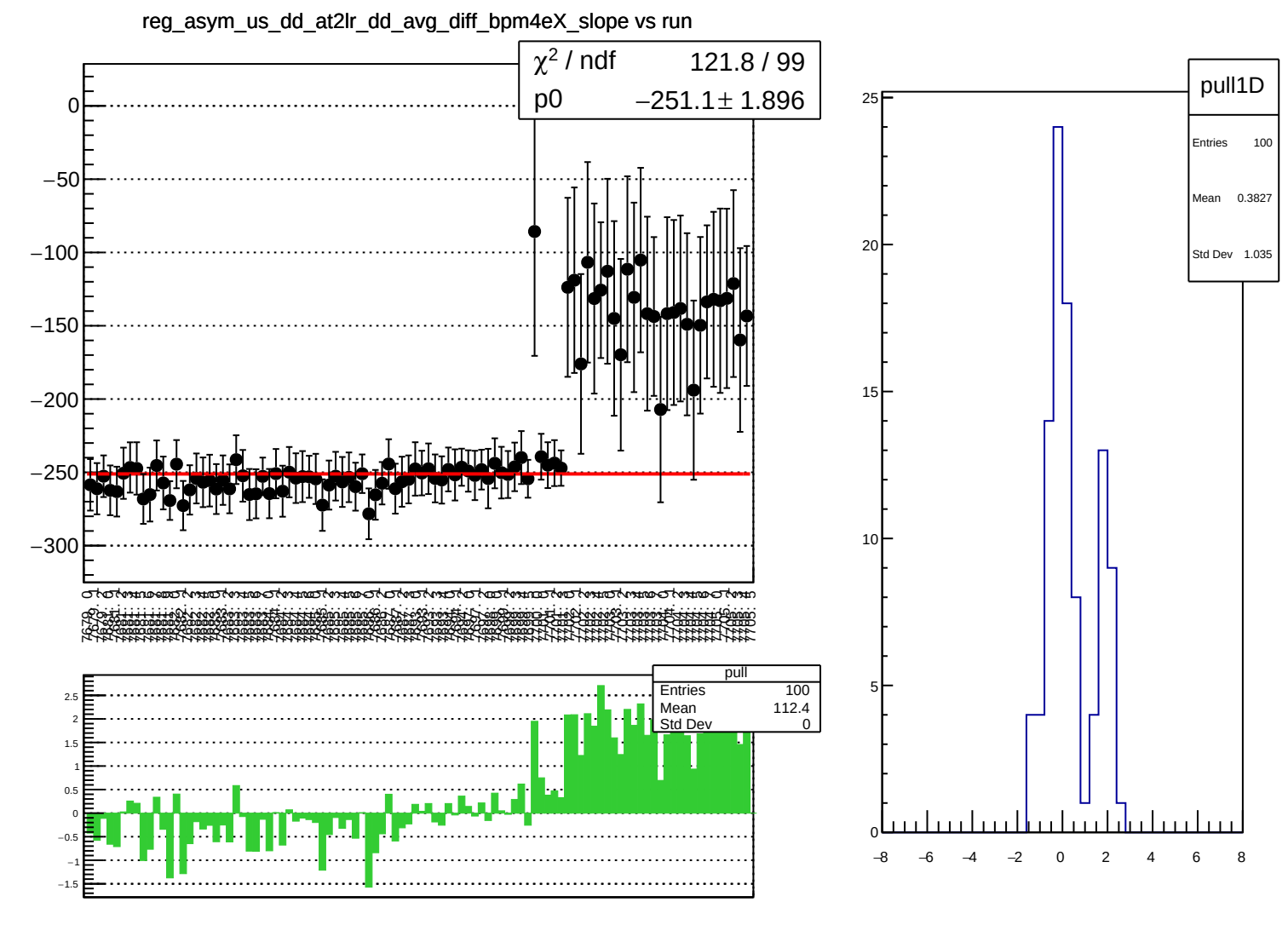

pull1D
Entries 100
Mean −0.01322
Std Dev 0.518
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

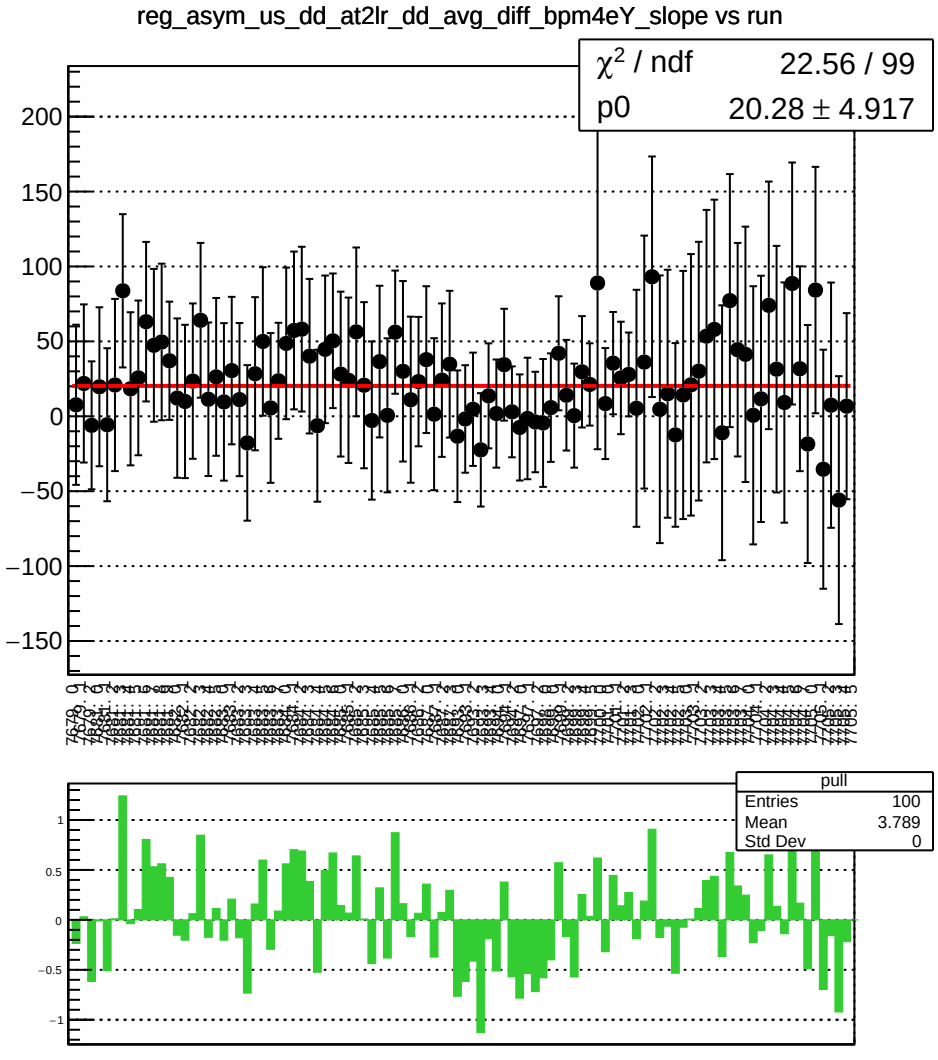

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 35.07 / 99
p0 −15.99 ± 0.164
pull
Entries 100
Mean −319.1
Std Dev 0

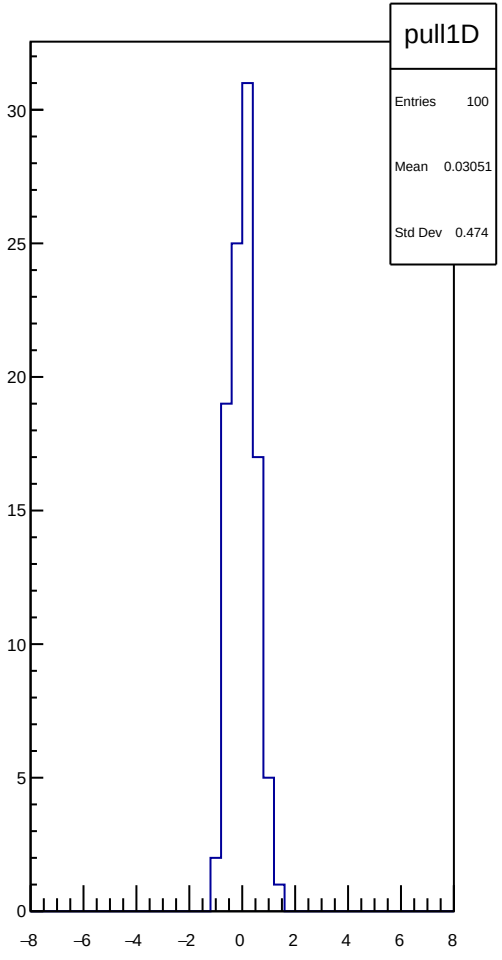

pull1D
Entries 100
Mean −0.01178
Std Dev 0.5921

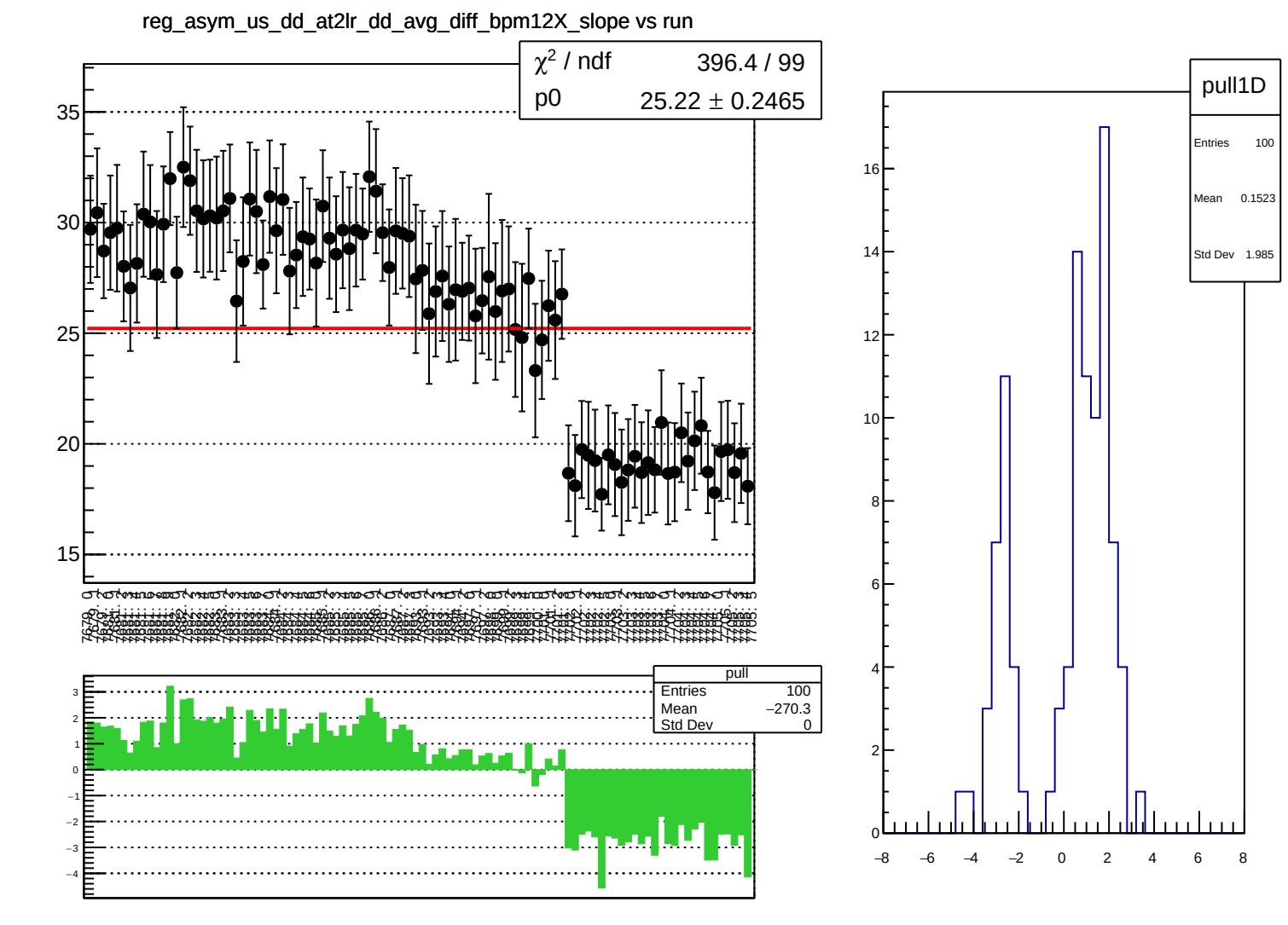

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 112.3 / 99
p0 107.5 ± 2.353
150
100
50
0
−50
−100
−150
pull
Entries 100
Mean 115.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 100
Mean −0.3471
Std Dev 1.001
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

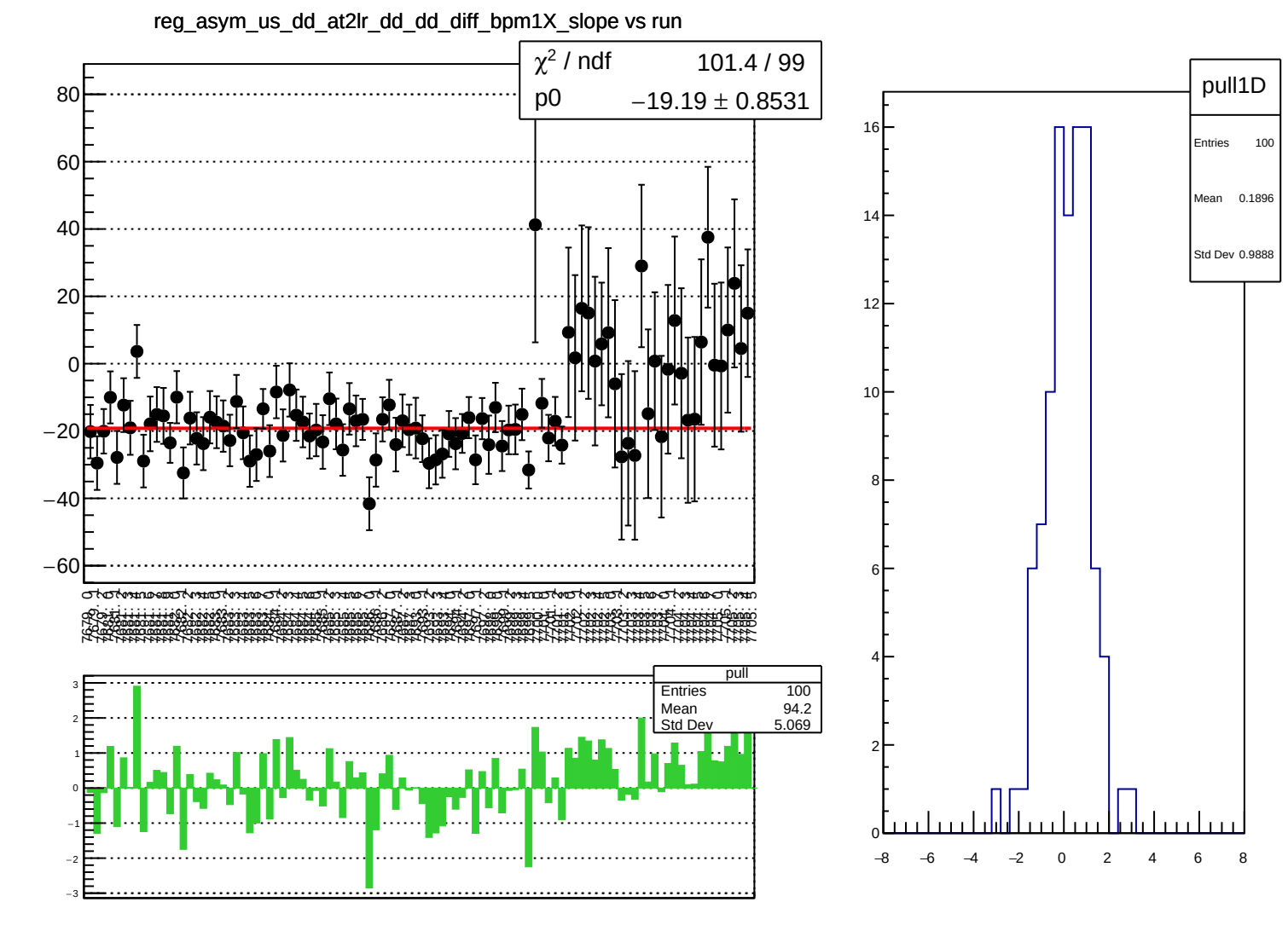

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 22.85 / 99
p0 −18.86 ± 3.305
150
100
50
0
−50
−100
−150
−200
pull
Entries 100
Mean −13.79
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 100
Mean −0.03163
Std Dev 0.4769
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

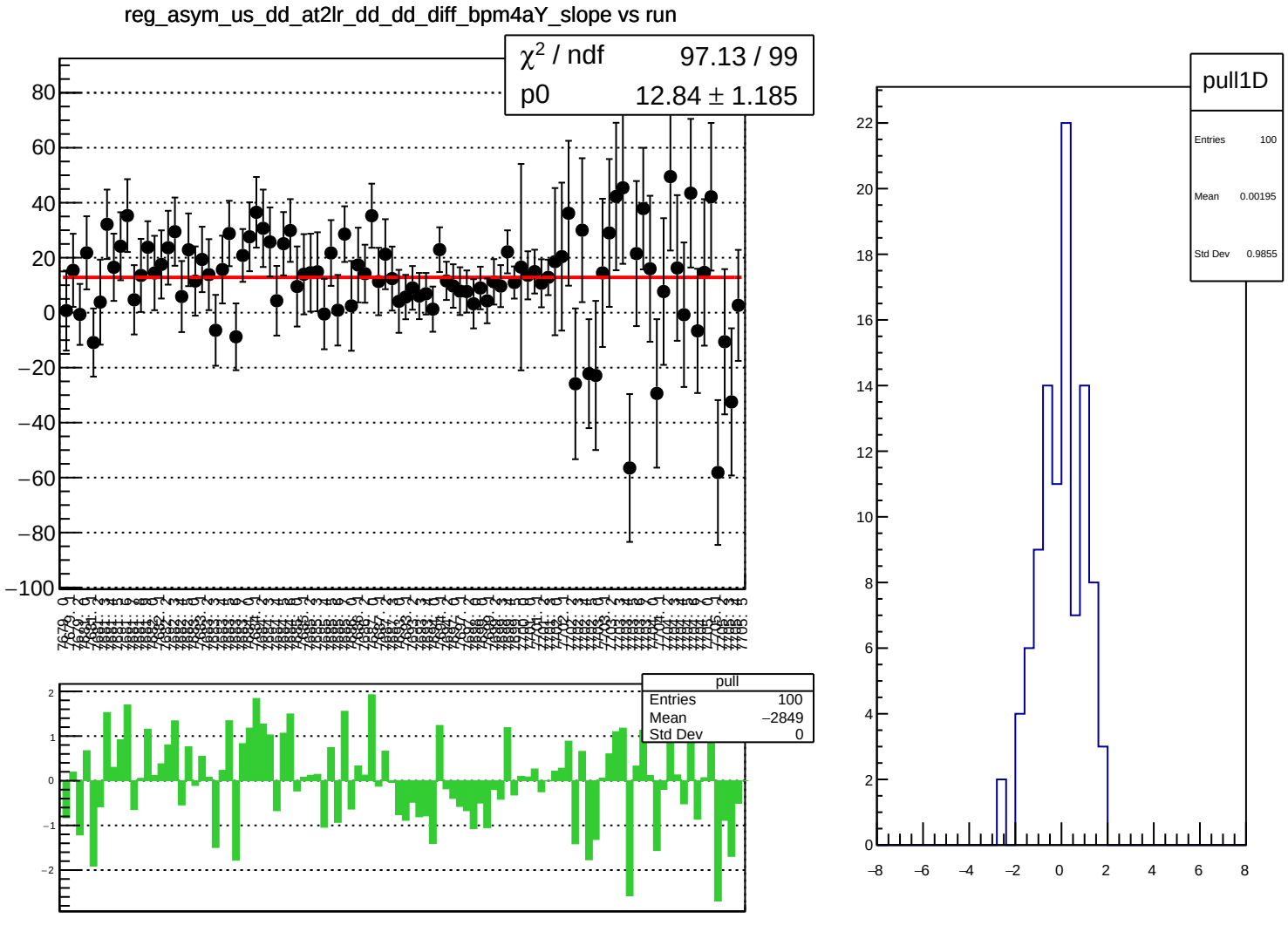

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 121.8 / 99
p0 −251.1 ± 1.896
pull
Entries 100
Mean 112.4
Std Dev 0
pull1D
Entries 100
Mean 0.3827
Std Dev 1.035

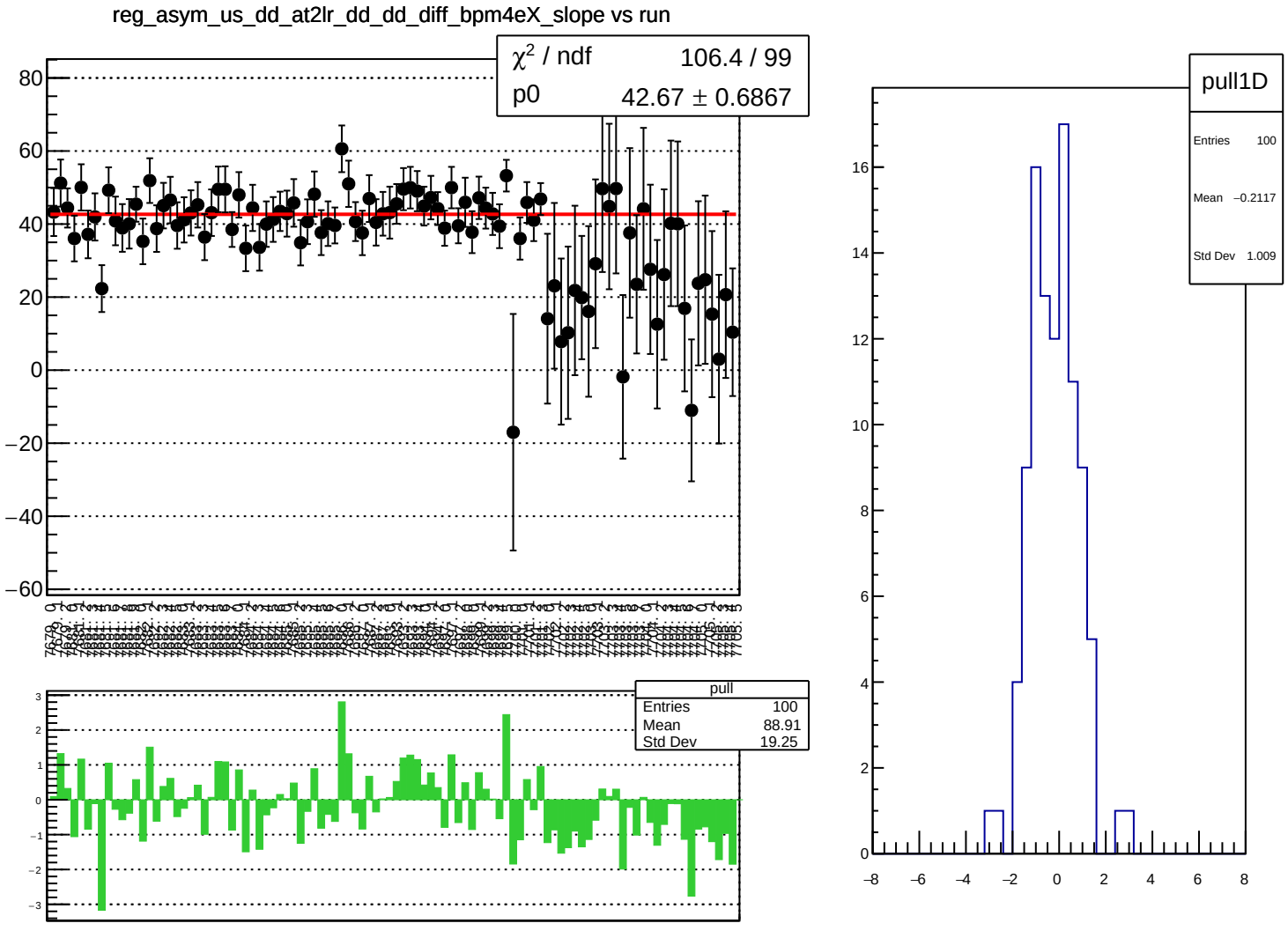

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 22.56 / 99
p0 20.28 ± 4.917
pull
Entries 100
Mean 3.789
Std Dev 0

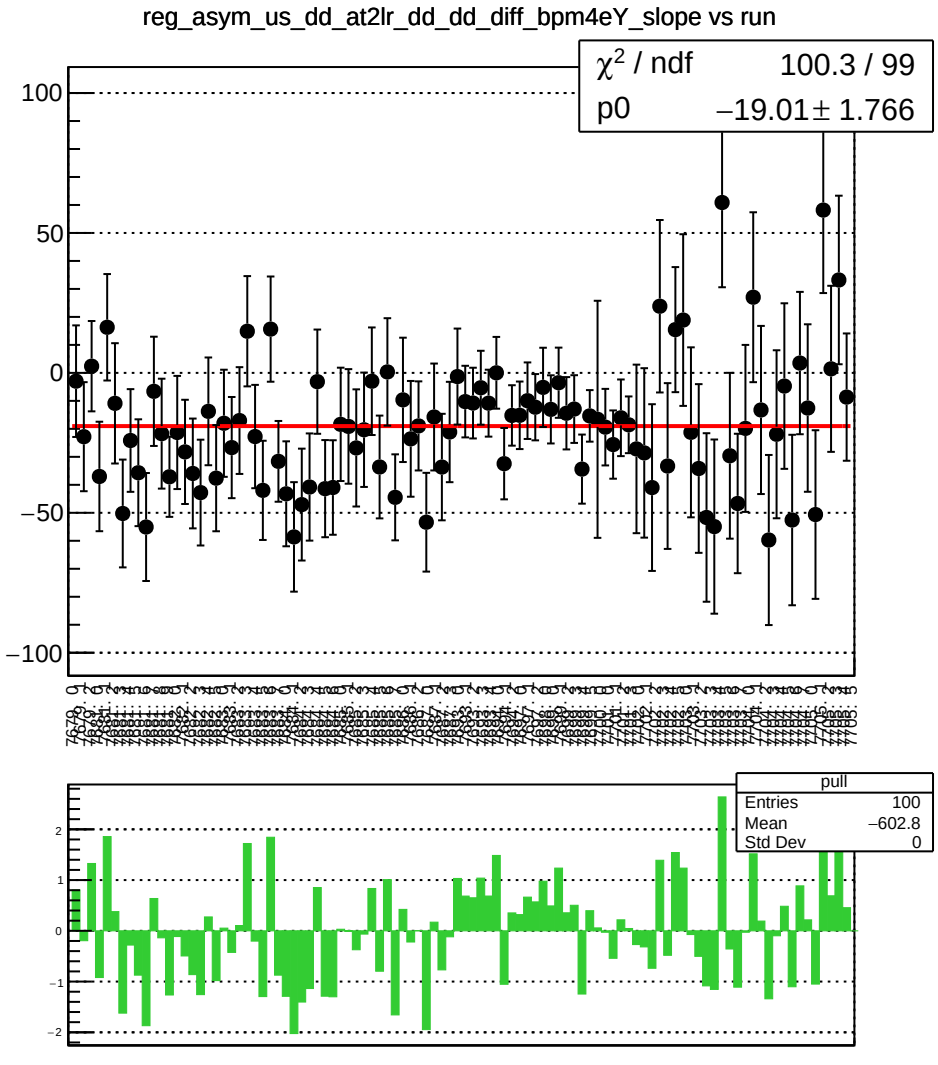

pull1D
Entries 100
Mean 0.03051
Std Dev 0.474

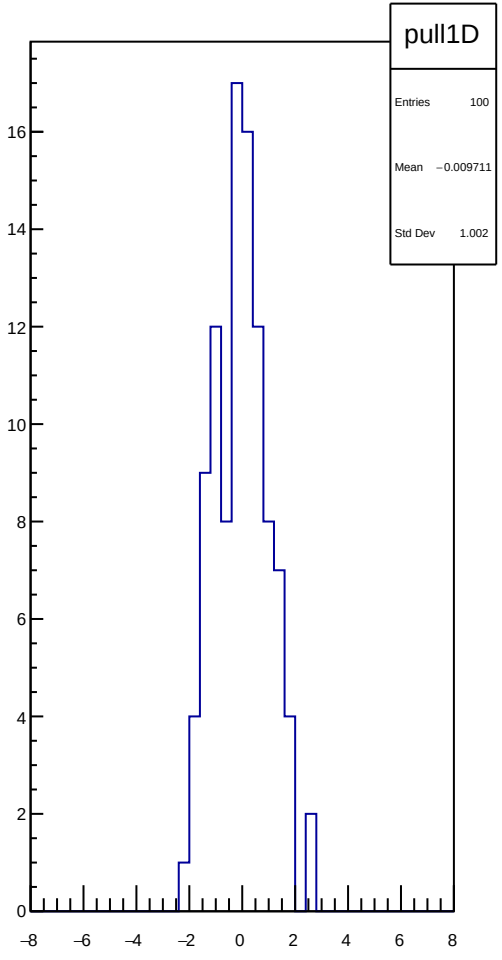

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 396.4 / 99
p0 25.22 ± 0.2465
pull
Entries 100
Mean −270.3
Std Dev 0
pull1D
Entries 100
Mean 0.1523
Std Dev 1.985

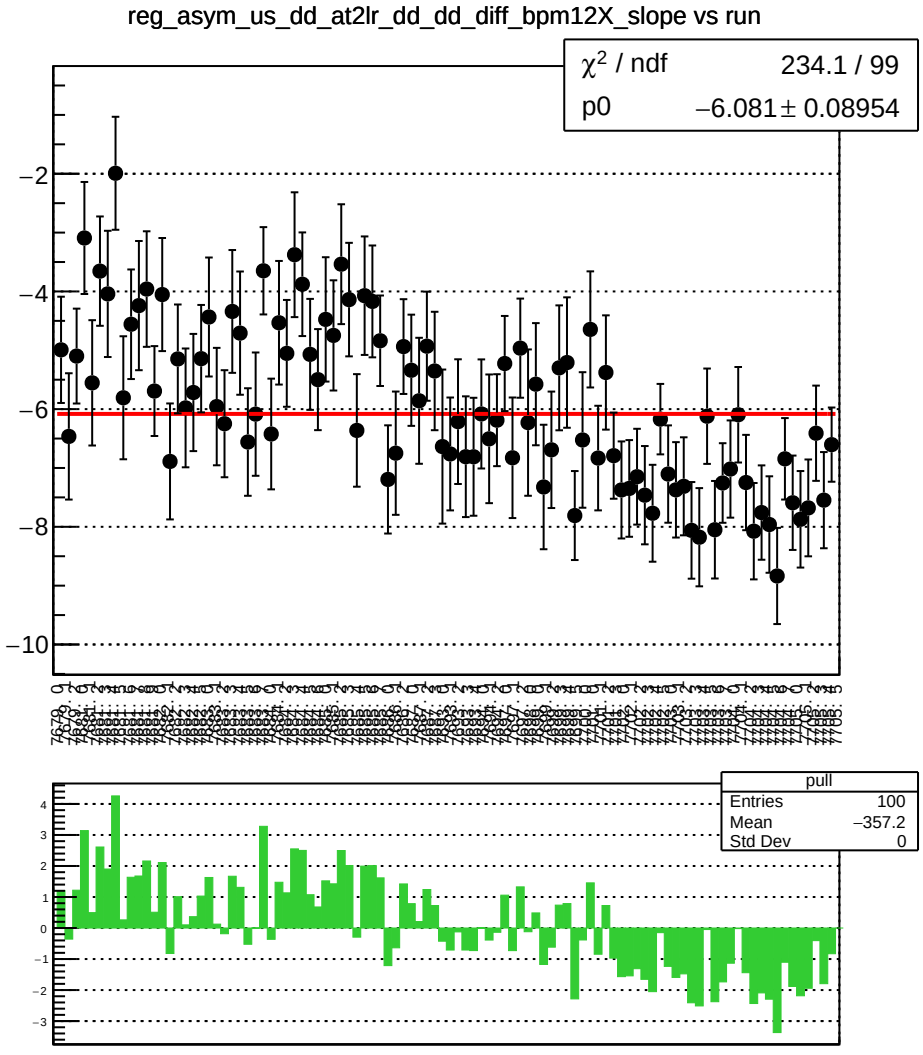

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 101.4 / 99
p0 −19.19 ± 0.8531
pull
Entries 100
Mean 94.2
Std Dev 5.069
pull1D
Entries 100
Mean 0.1896
Std Dev 0.9888

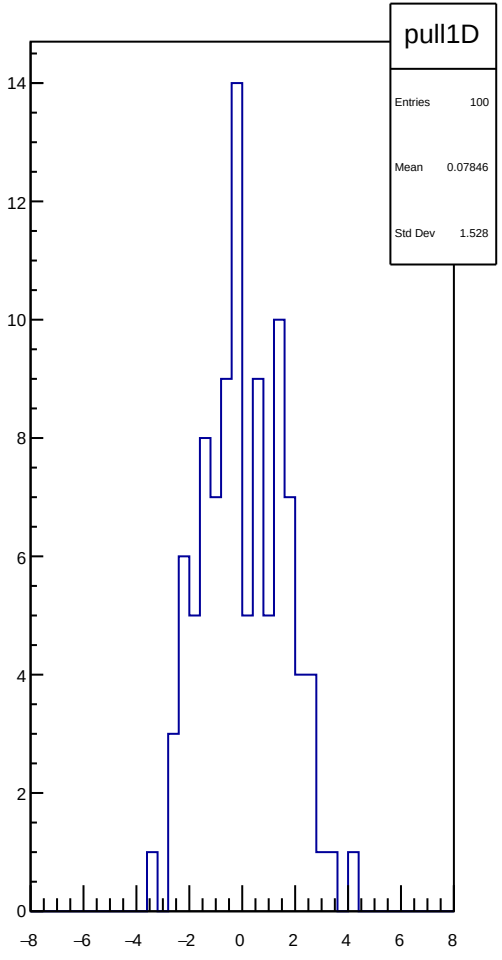

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 97.13 / 99
p0 12.84 ± 1.185
pull
Entries 100
Mean −2849
Std Dev 0
pull1D
Entries 100
Mean 0.00195
Std Dev 0.9855

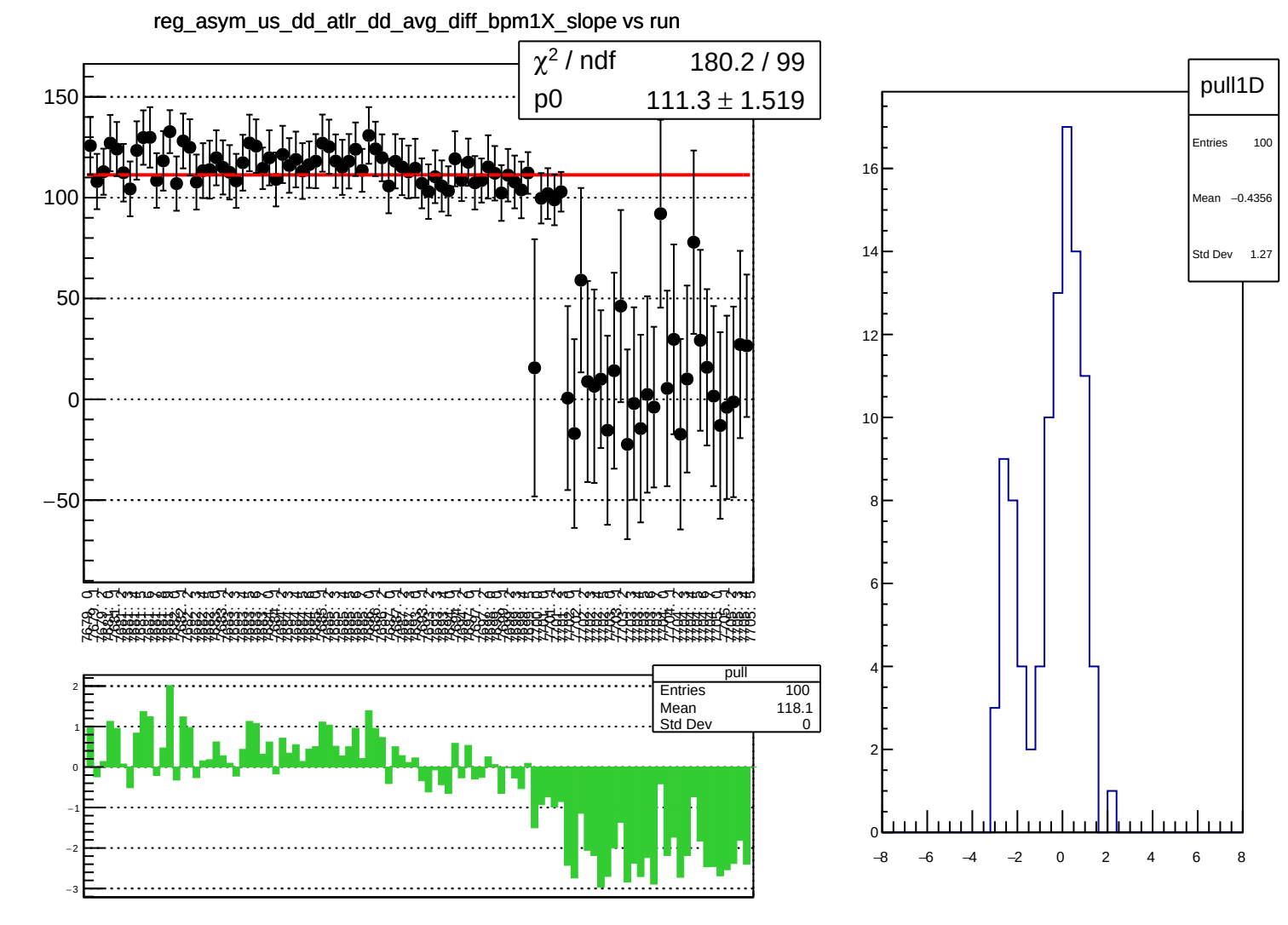

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 106.4 / 99
p0 42.67 ± 0.6867
pull
Entries 100
Mean 88.91
Std Dev 19.25
pull1D
Entries 100
Mean −0.2117
Std Dev 1.009

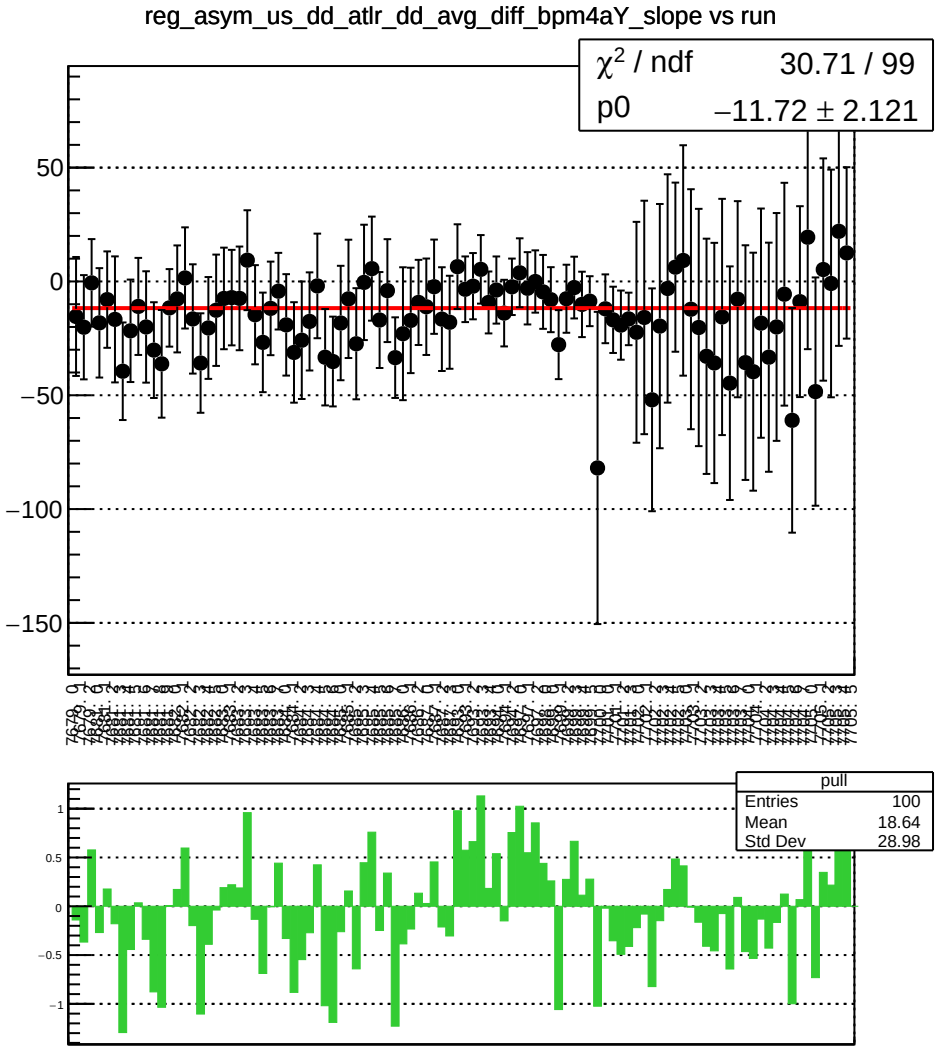

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 100.3 / 99
p0 −19.01 ± 1.766
100
50
0
−50
−100
pull
Entries 100
Mean −602.8
Std Dev 0
2
1
0
−1
−2

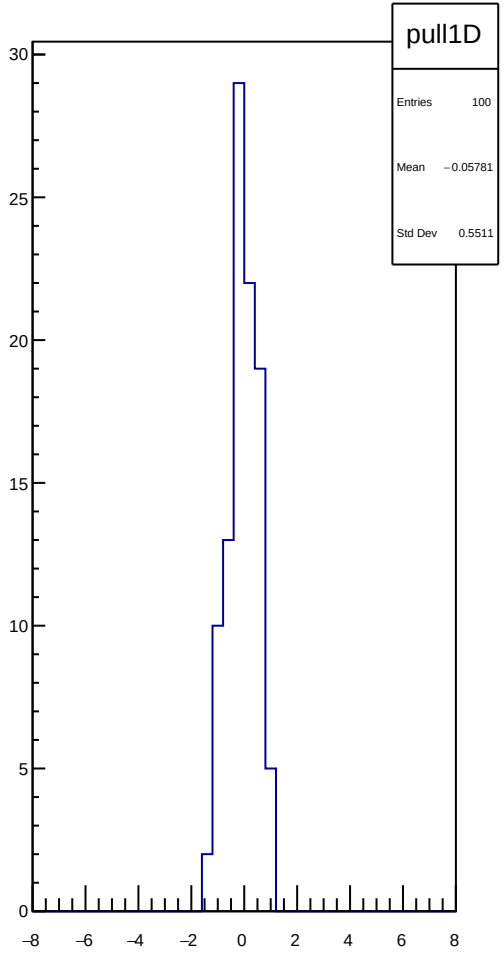

pull1D
Entries 100
Mean −0.009711
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

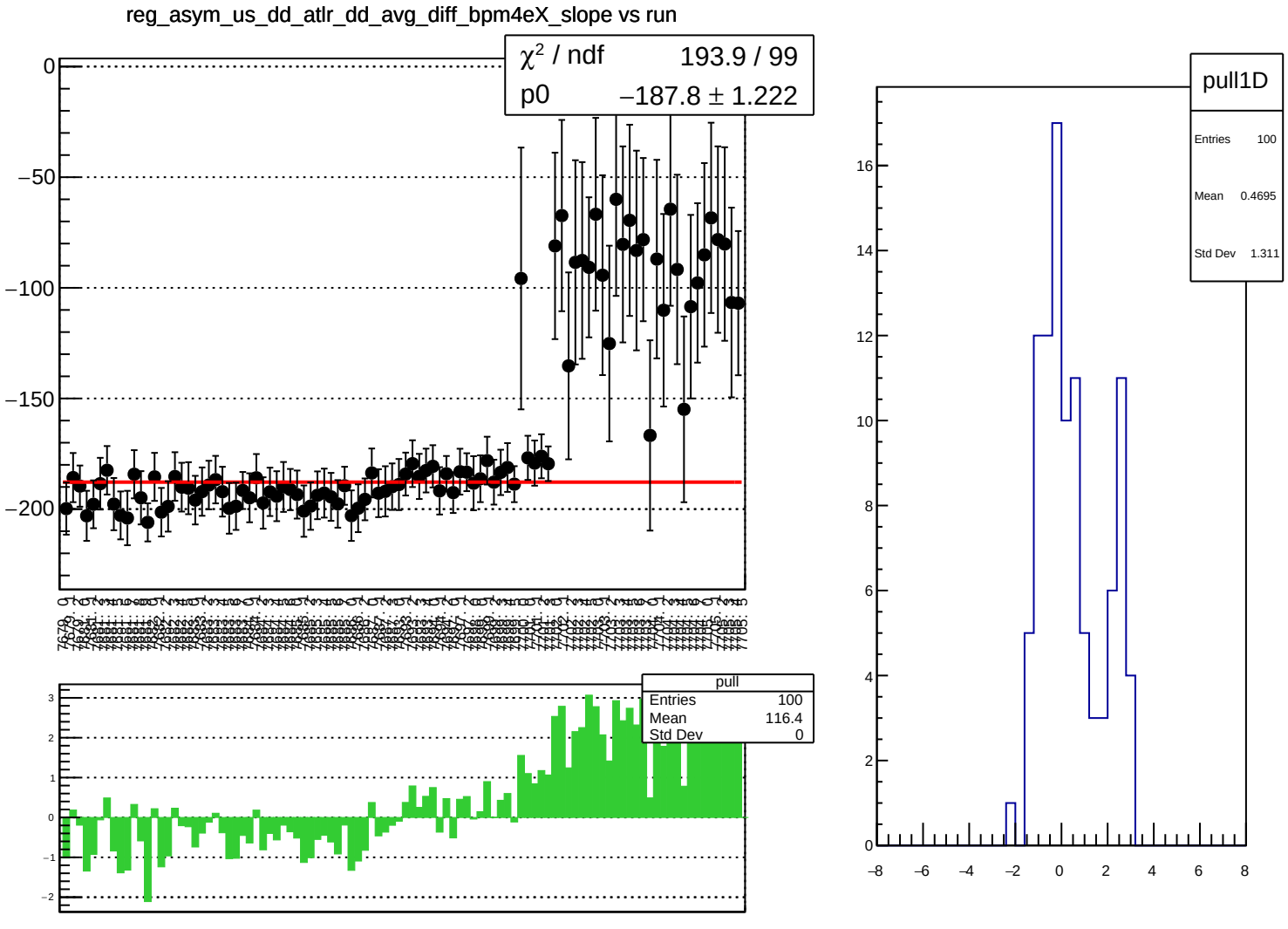

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 234.1 / 99
p0 −6.081 ± 0.08954
pull
Entries 100
Mean −357.2
Std Dev 0

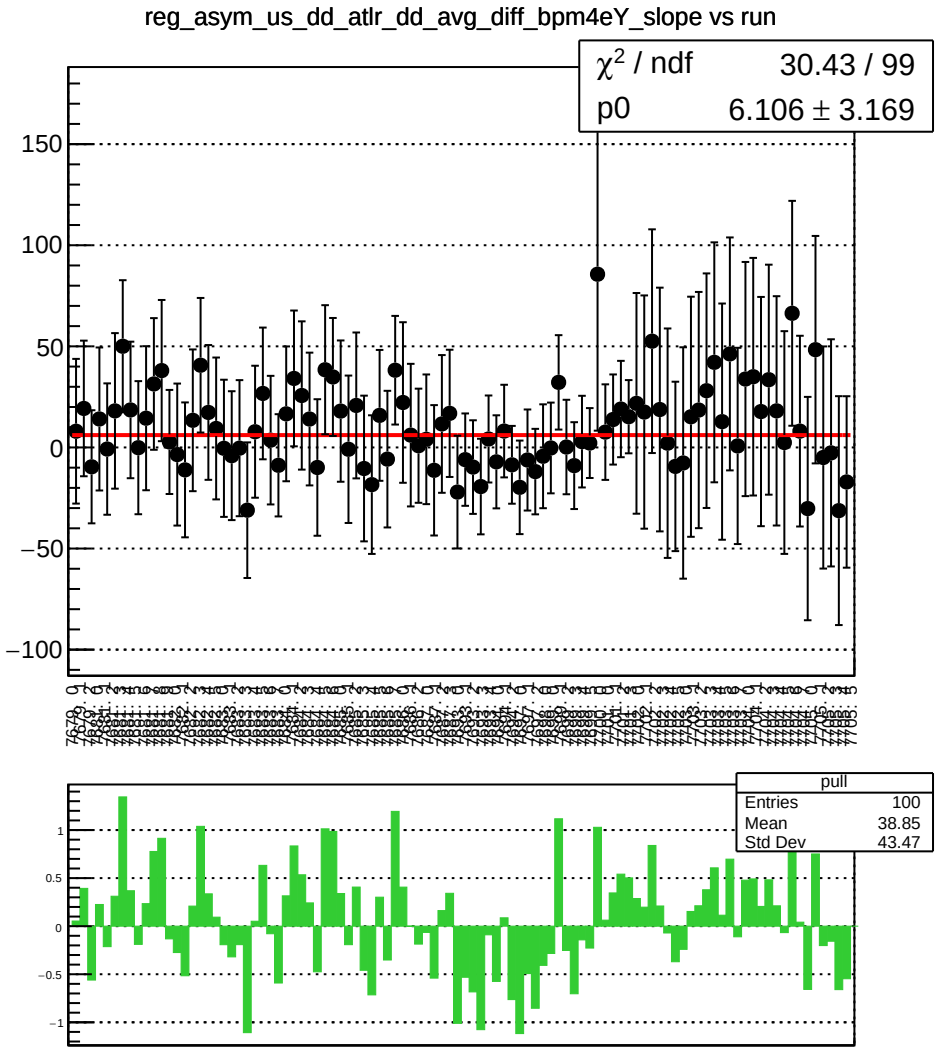

pull1D
Entries 100
Mean 0.07846
Std Dev 1.528

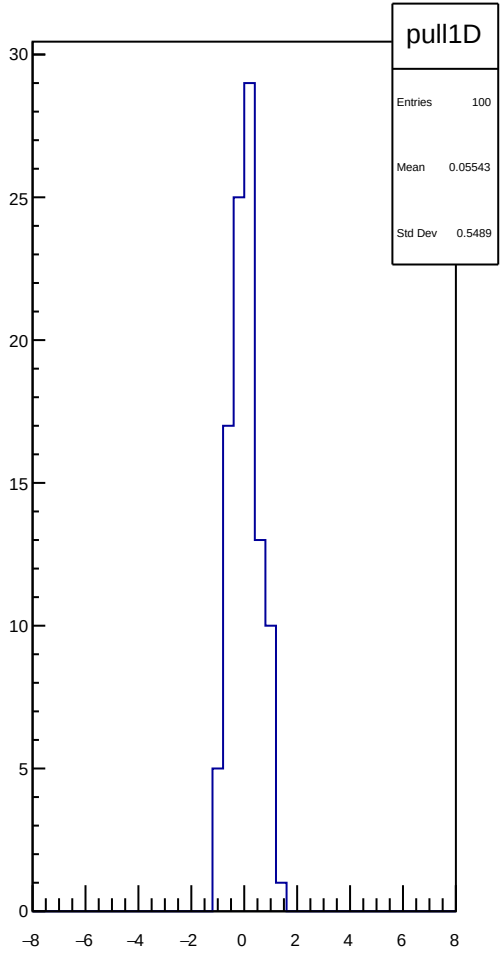

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 180.2 / 99
p0 111.3 ± 1.519
150
100
50
0
−50
pull
Entries 100
Mean 118.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 100
Mean −0.4356
Std Dev 1.27
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

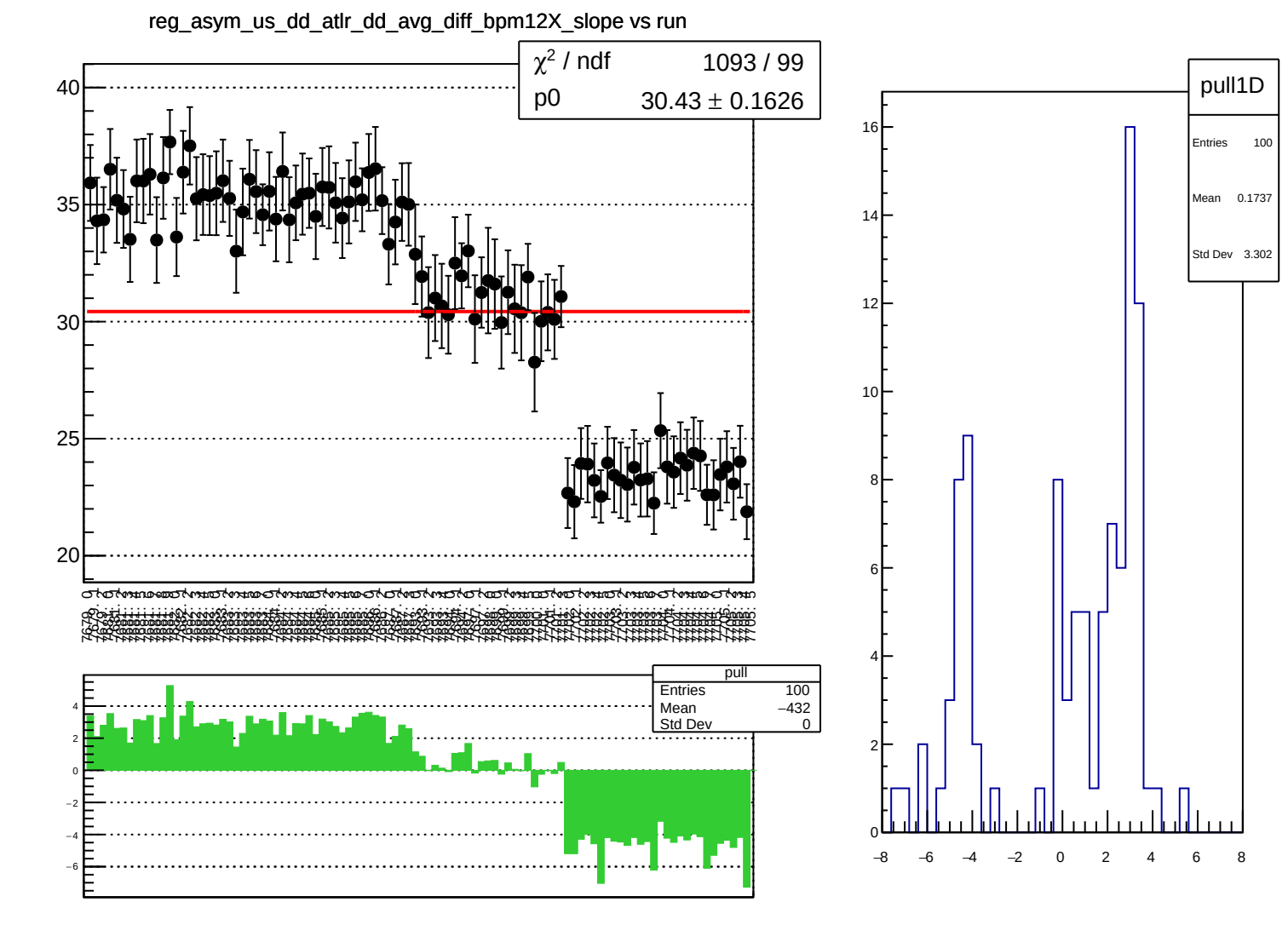

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 30.71 / 99
p0 −11.72 ± 2.121
50
0
−50
−100
−150
pull
Entries 100
Mean 18.64
Std Dev 28.98
1
0.5
0
−0.5
−1

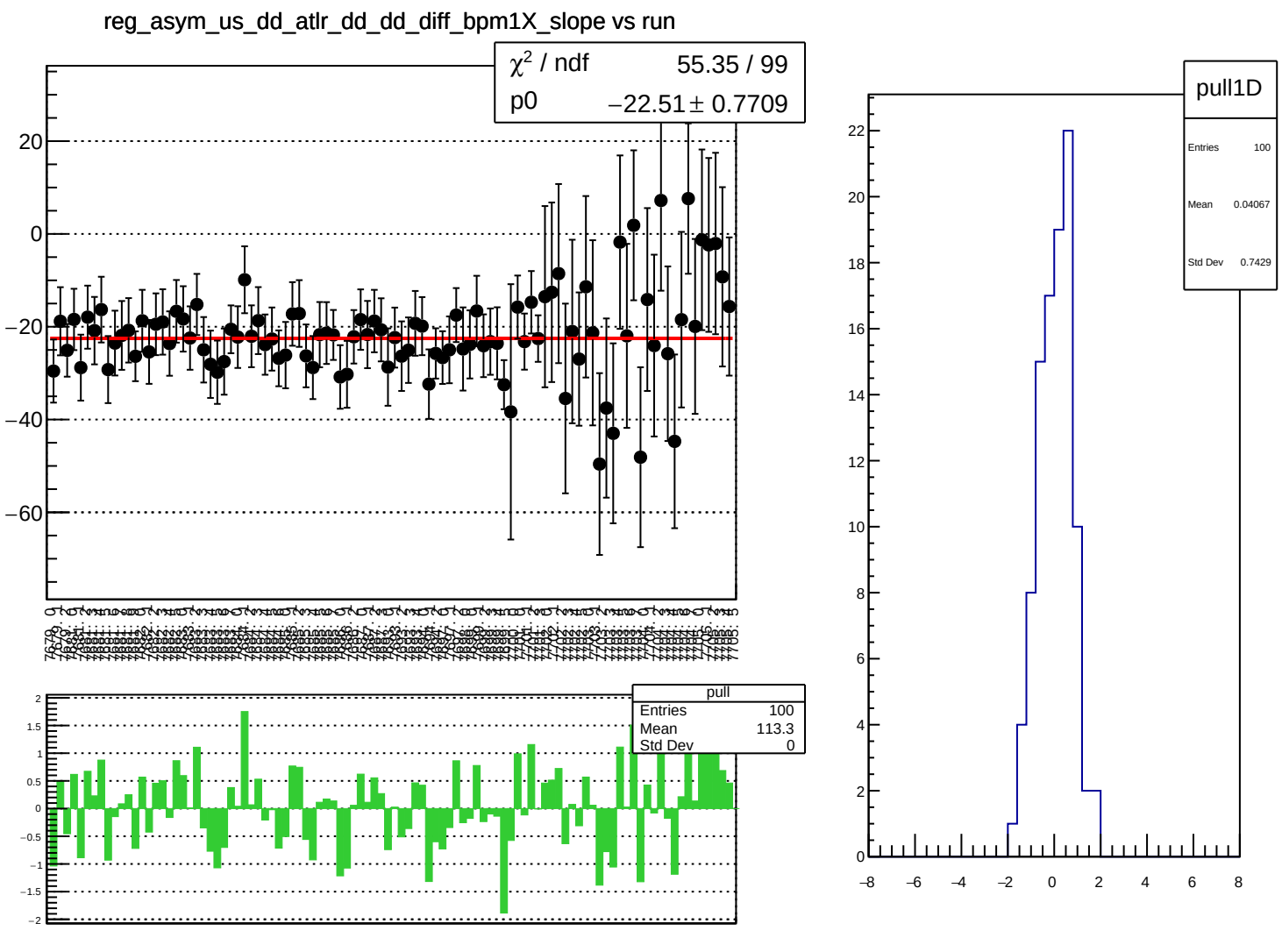

pull1D
Entries 100
Mean −0.05781
Std Dev 0.5511
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

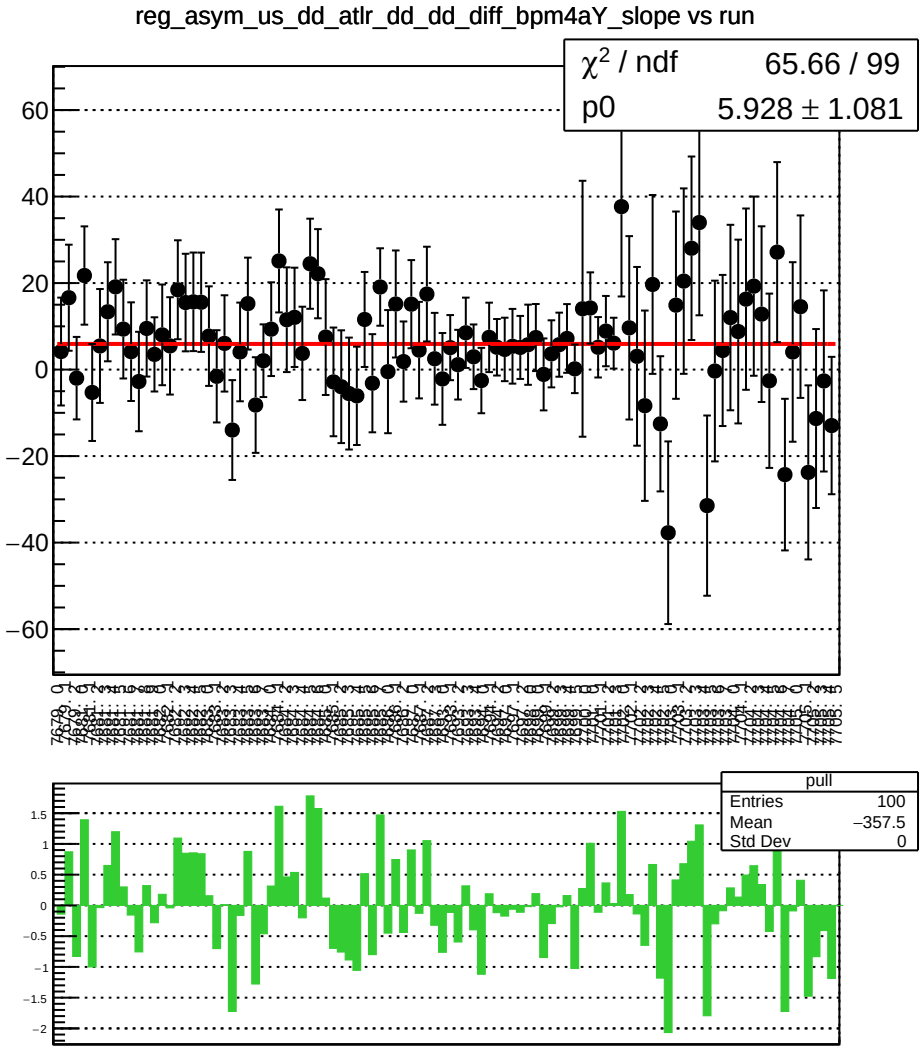

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 193.9 / 99
p0 −187.8 ± 1.222
0
−50
−100
−150
−200
pull
Entries 100
Mean 116.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 100
Mean 0.4695
Std Dev 1.311
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

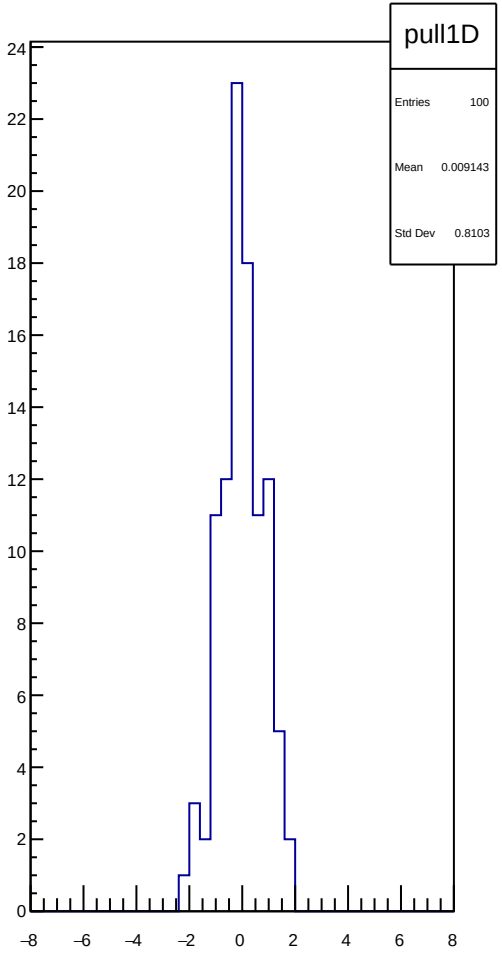

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 30.43 / 99
p0 6.106 ± 3.169
150
100
50
0
−50
−100
pull
Entries 100
Mean 38.85
Std Dev 43.47
1
0.5
0
−0.5
−1

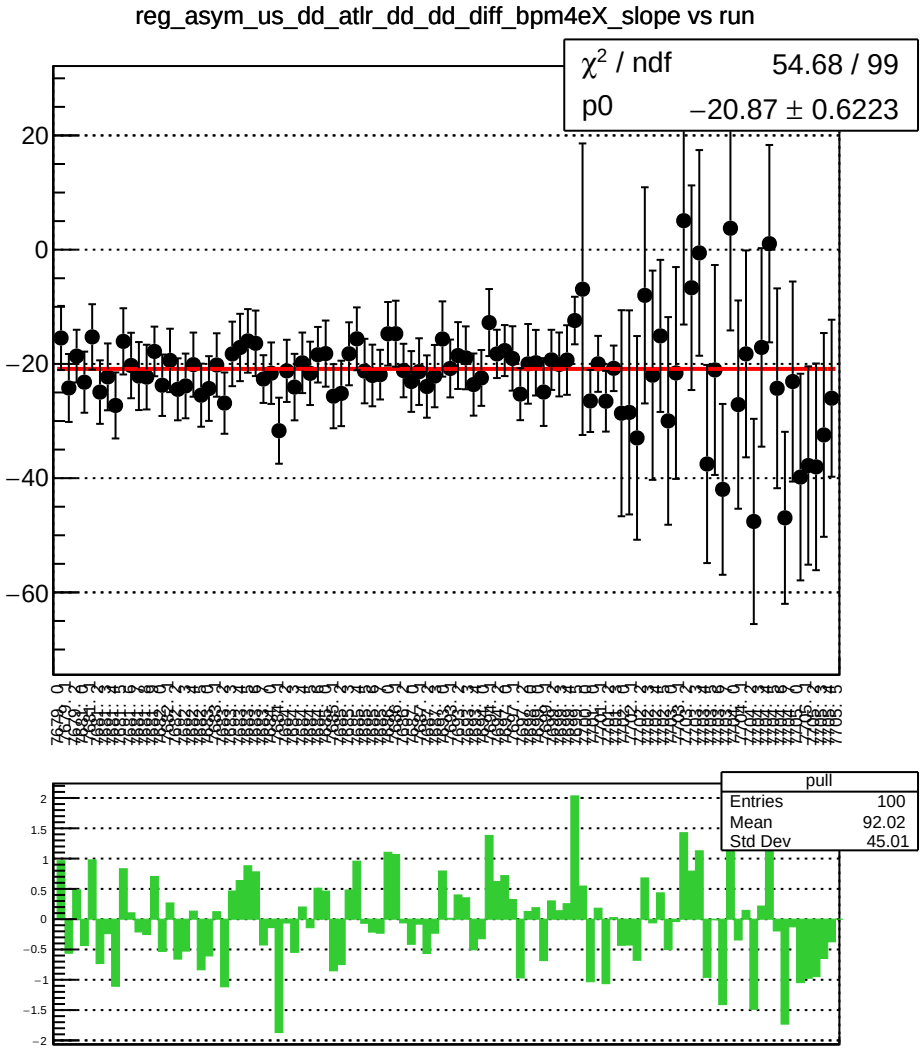

pull1D
Entries 100
Mean 0.05543
Std Dev 0.5489
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

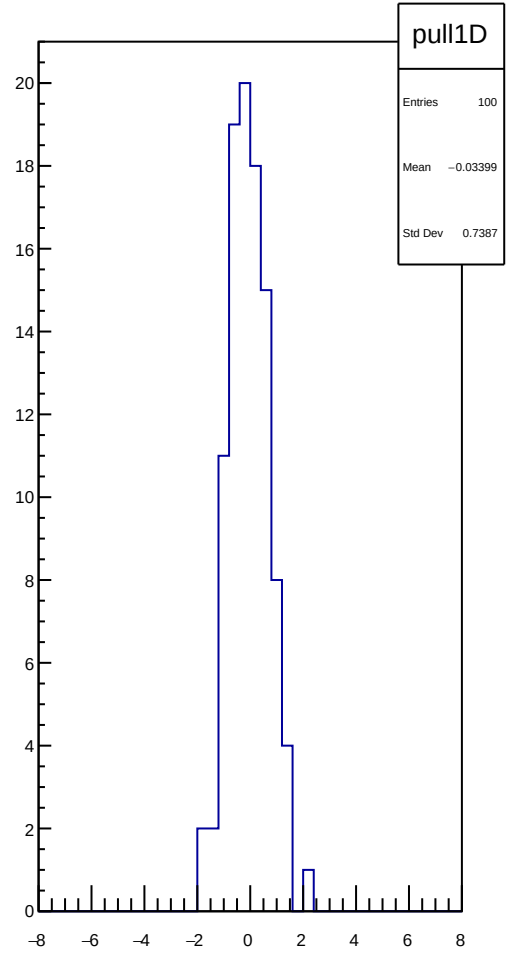

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 1093 / 99
p0 30.43 ± 0.1626
40
35
30
25
20
pull
Entries 100
Mean −432
Std Dev 0
4
2
0
−2
−4
−6
pull1D
Entries 100
Mean 0.1737
Std Dev 3.302
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

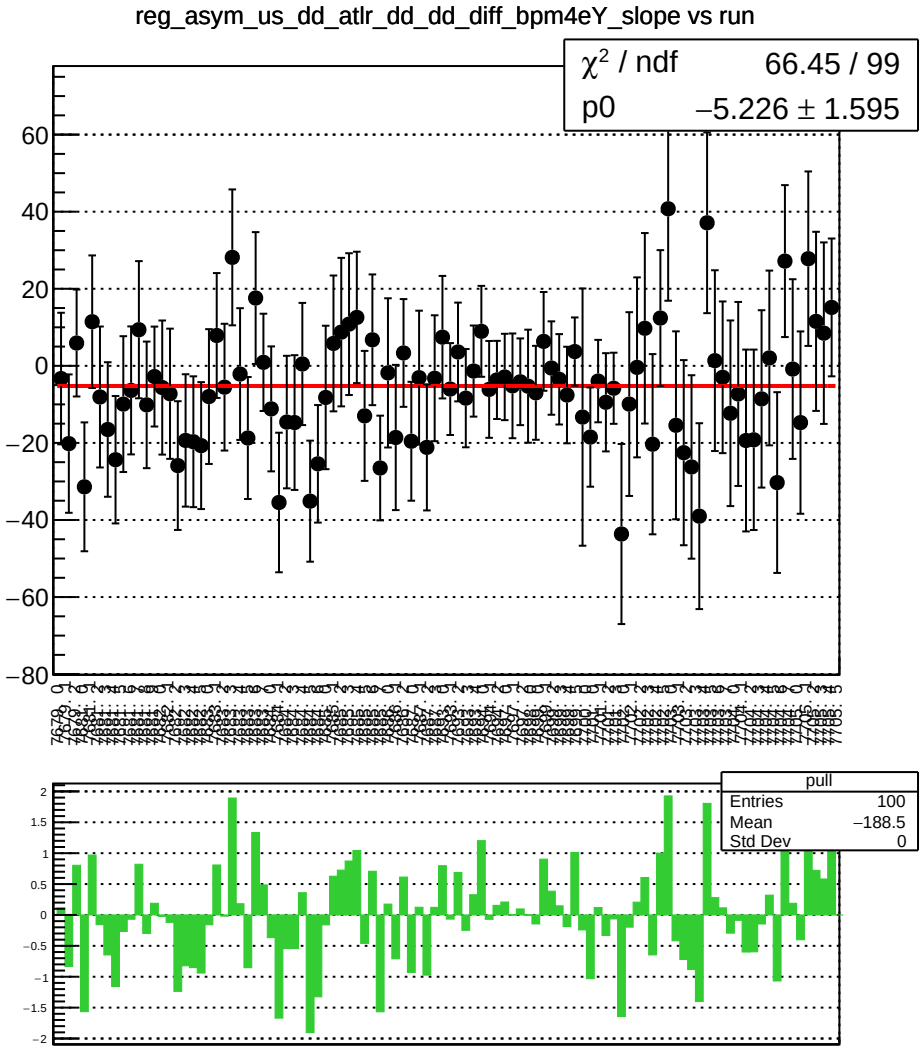

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 55.35 / 99
p0 −22.51 ± 0.7709
20
0
−20
−40
−60
pull
Entries 100
Mean 113.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 100
Mean 0.04067
Std Dev 0.7429
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

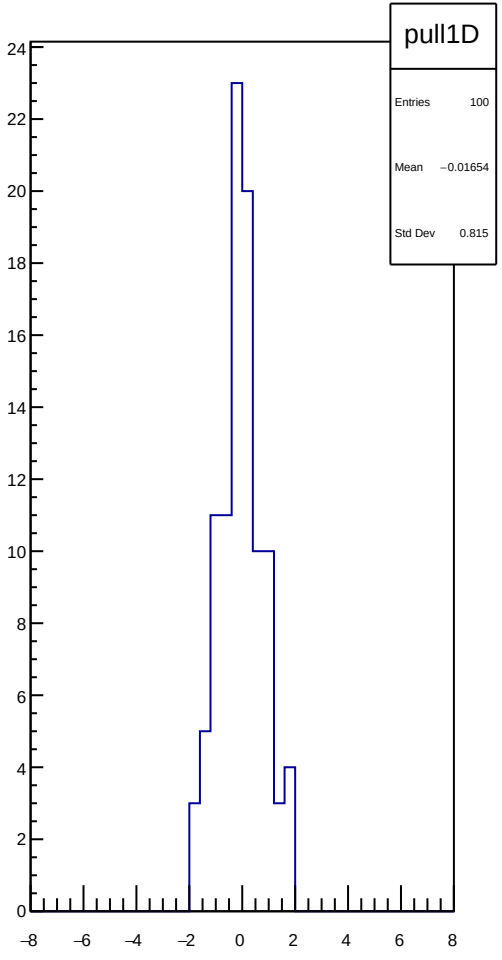

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 65.66 / 99
p0 5.928 ± 1.081
pull
Entries 100
Mean −357.5
Std Dev 0

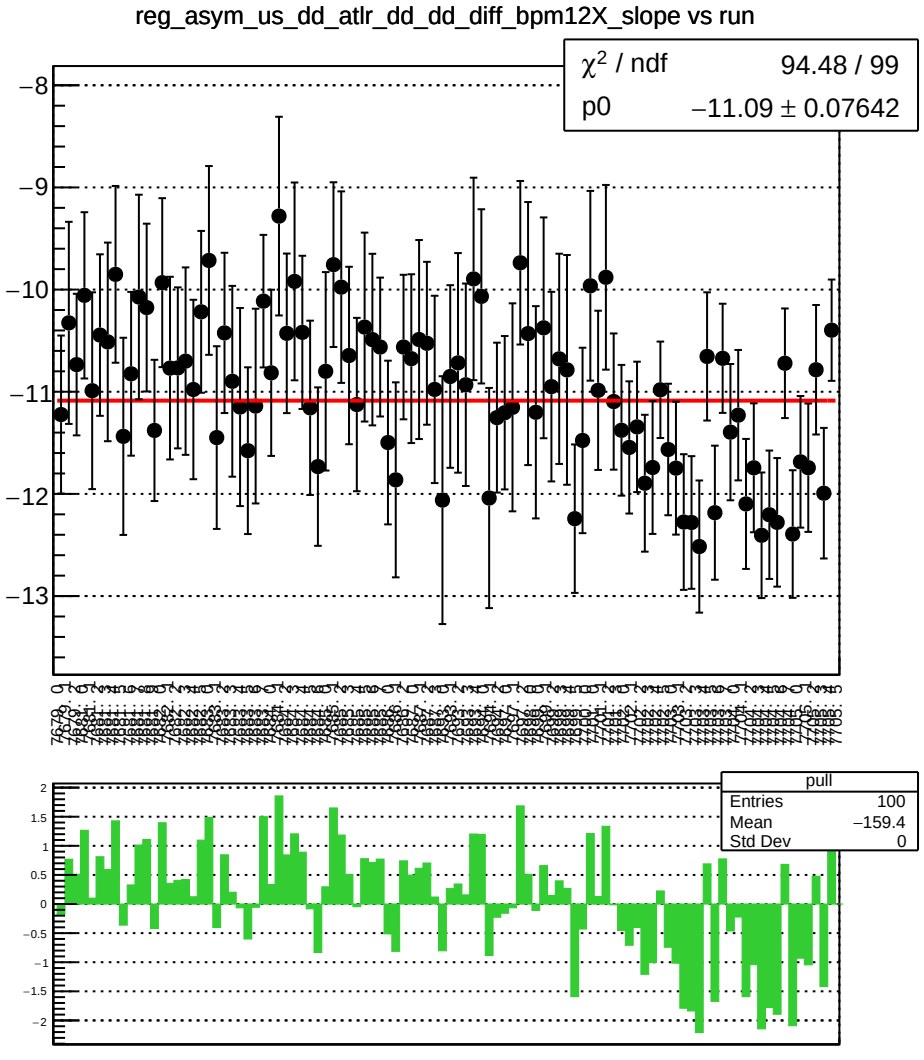

pull1D
Entries 100
Mean 0.009143
Std Dev 0.8103

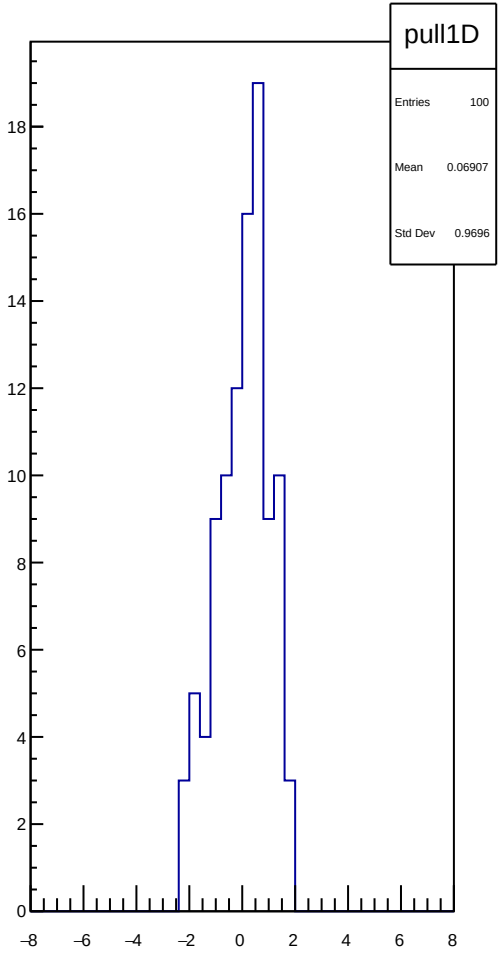

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 54.68 / 99
p0 −20.87 ± 0.6223
pull
Entries 100
Mean 92.02
Std Dev 45.01

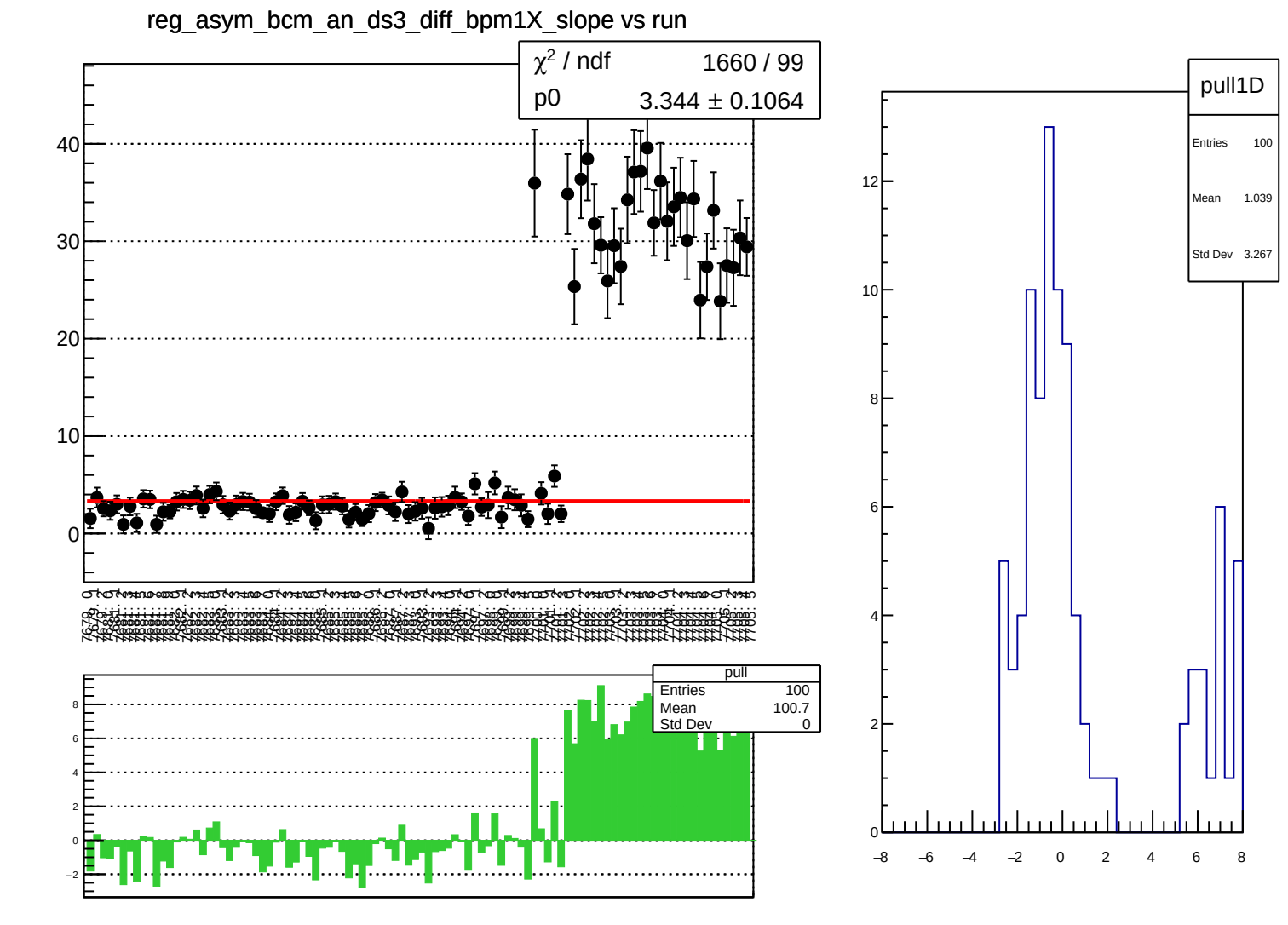

pull1D
Entries 100
Mean −0.03399
Std Dev 0.7387

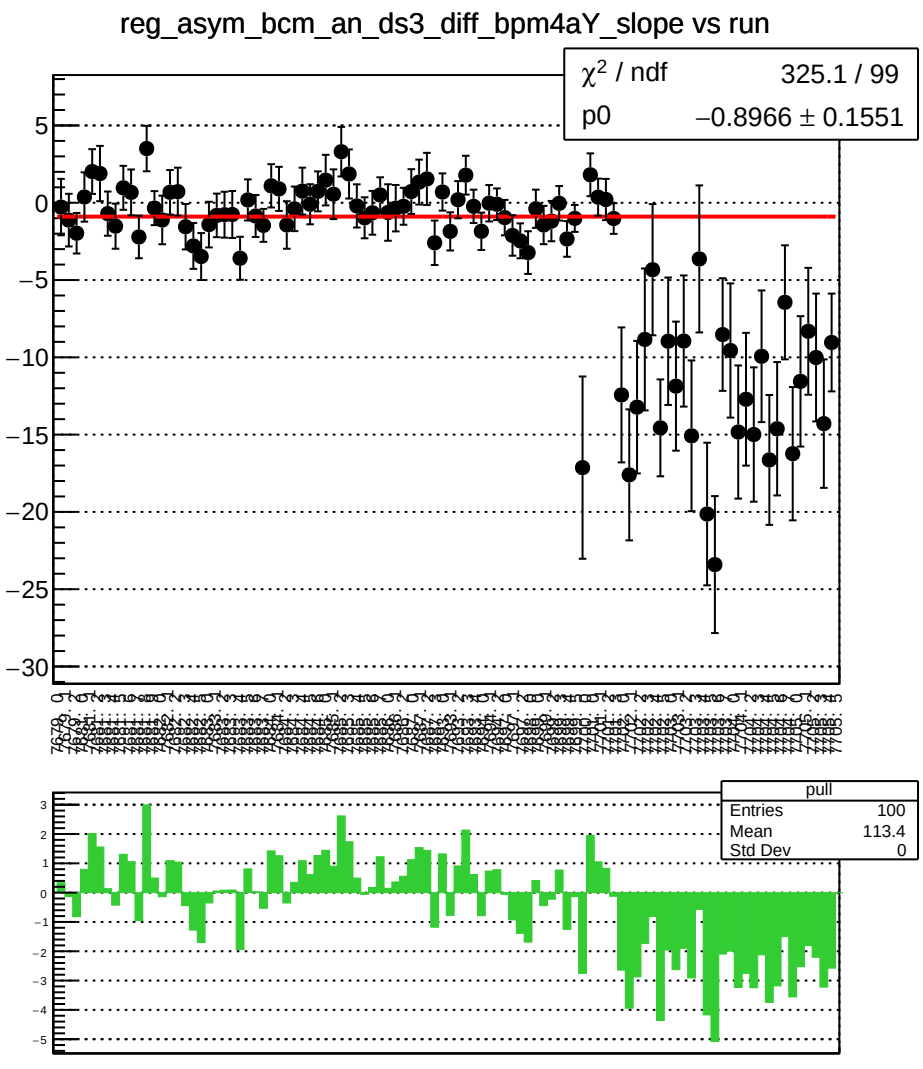

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 66.45 / 99
p0 −5.226 ± 1.595
pull
Entries 100
Mean −188.5
Std Dev 0

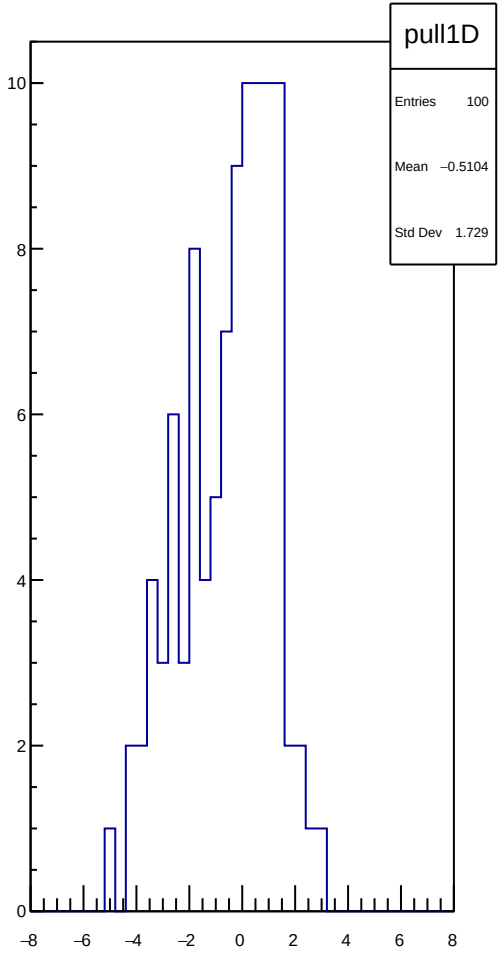

pull1D
Entries 100
Mean −0.01654
Std Dev 0.815

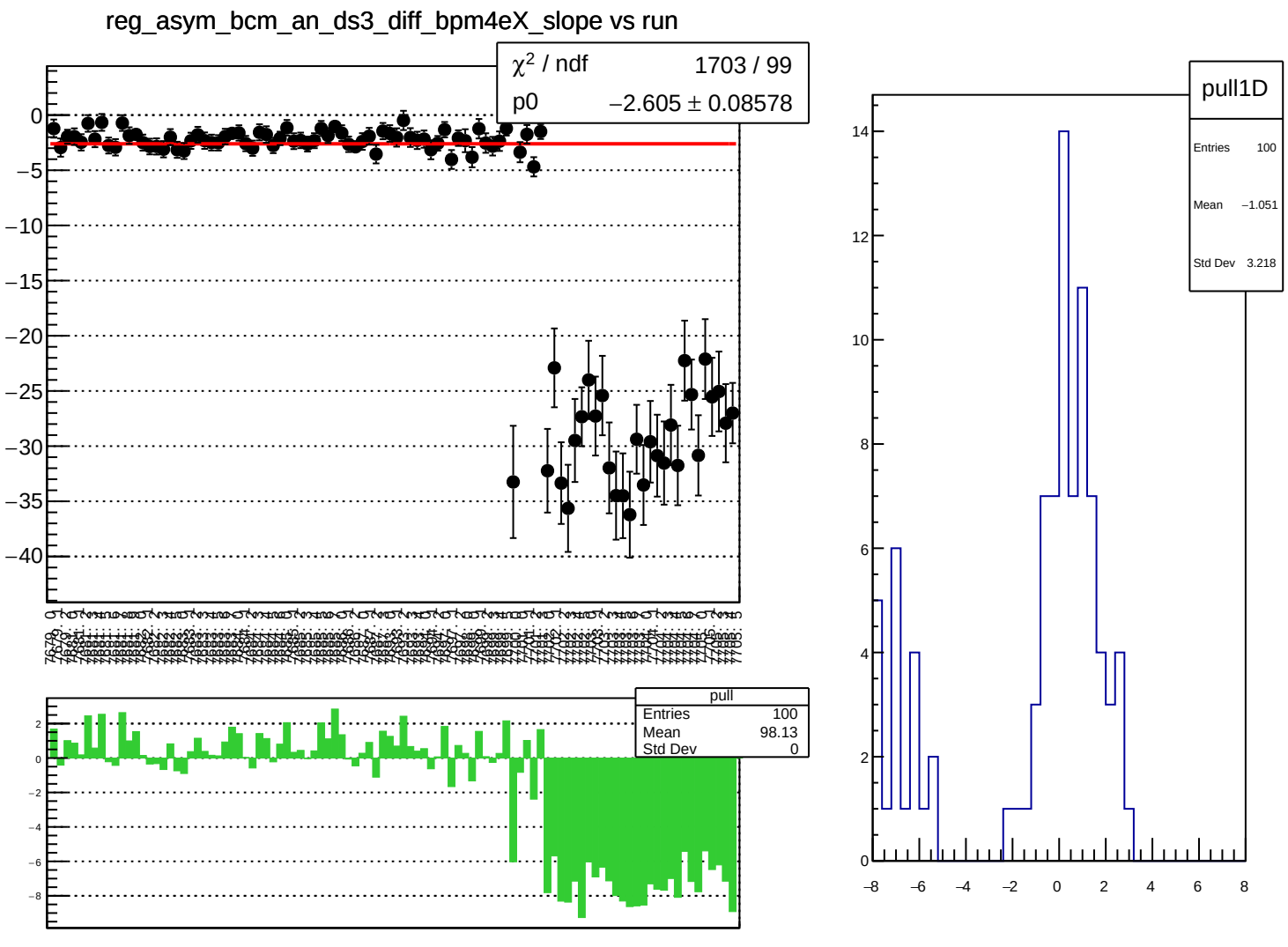

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 94.48 / 99
p0 −11.09 ± 0.07642
pull
Entries 100
Mean −159.4
Std Dev 0

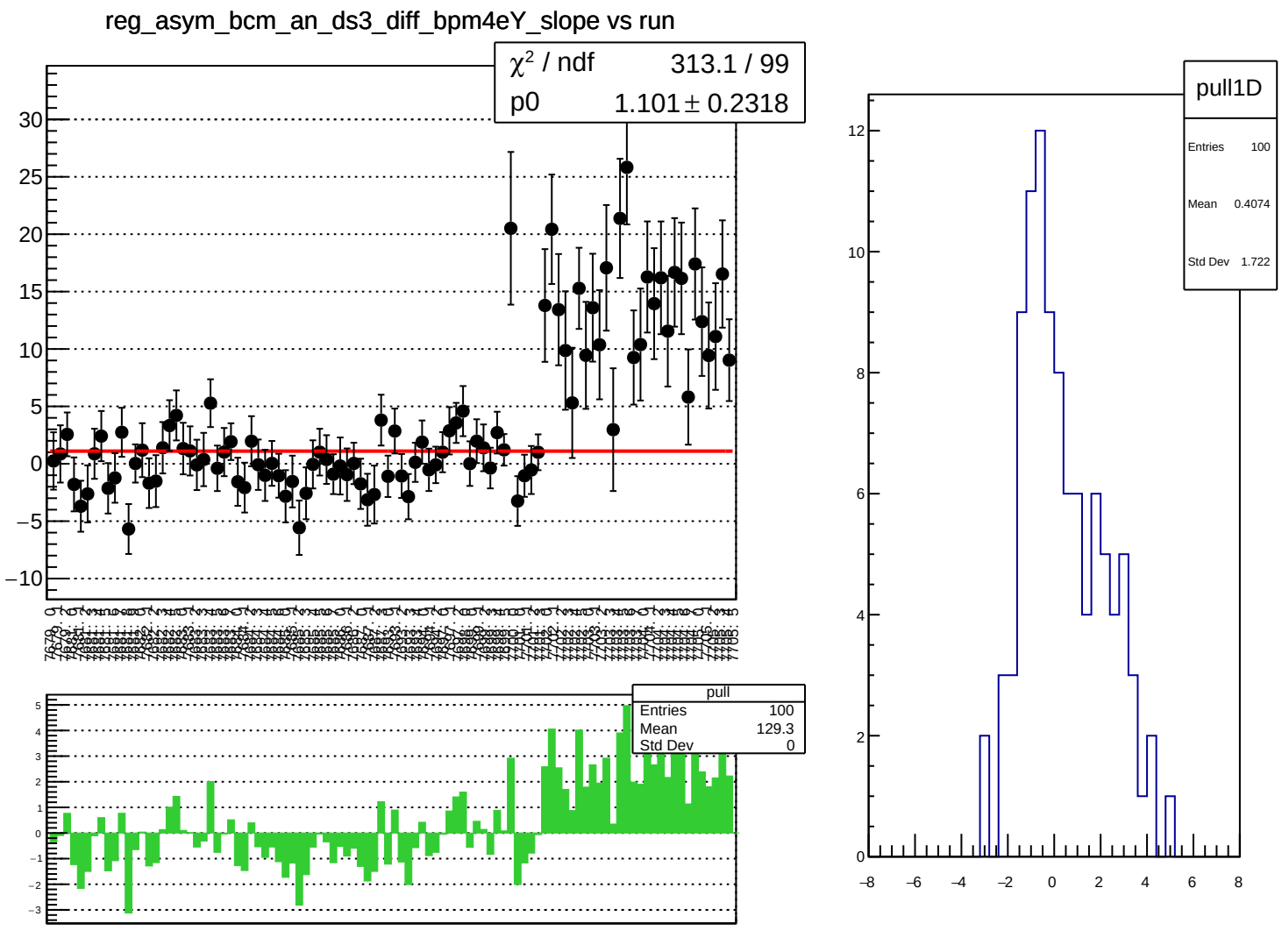

pull1D
Entries 100
Mean 0.06907
Std Dev 0.9696

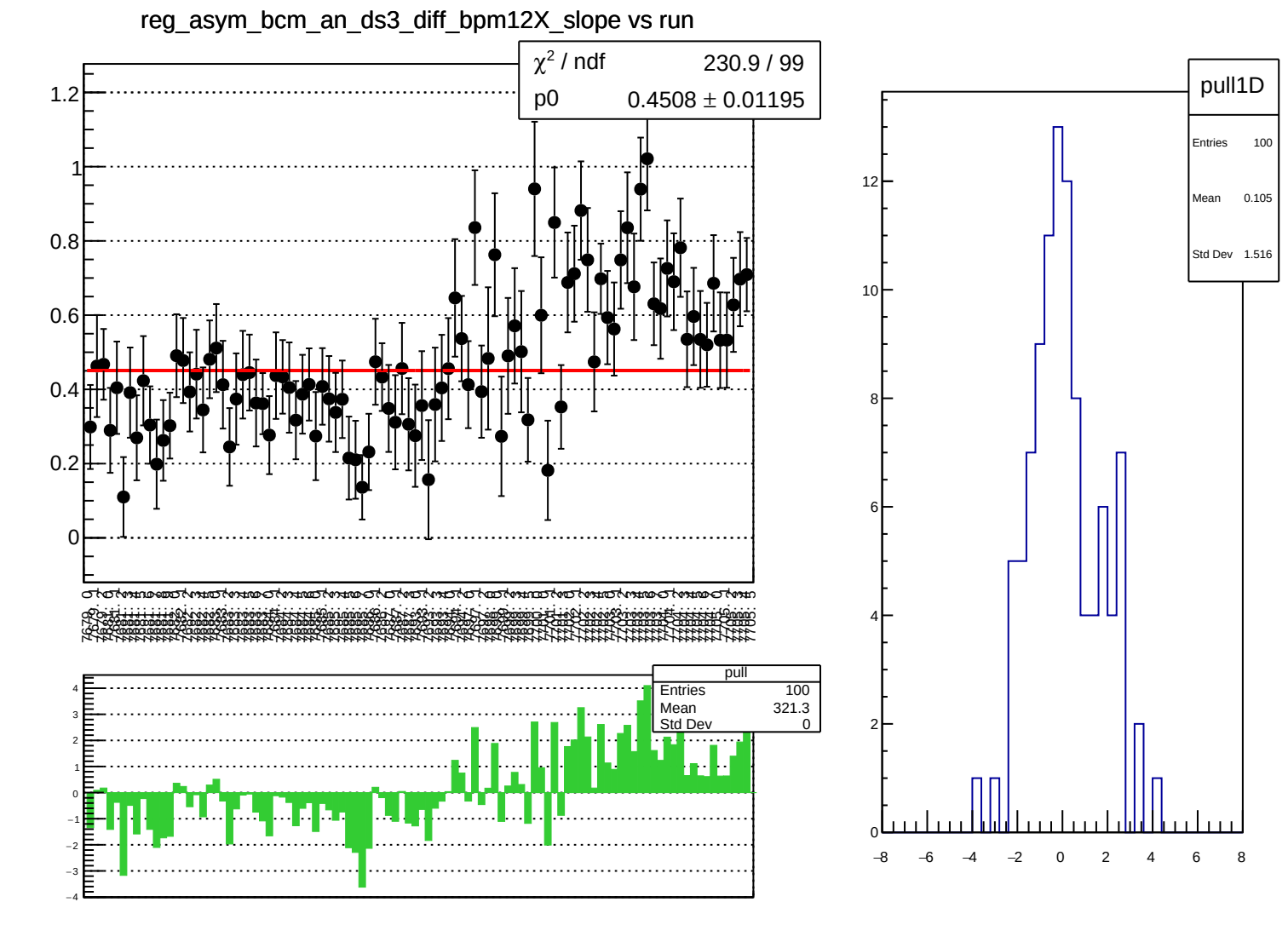

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 1660 / 99
p0 3.344 ± 0.1064
pull
Entries 100
Mean 100.7
Std Dev 0
pull1D
Entries 100
Mean 1.039
Std Dev 3.267

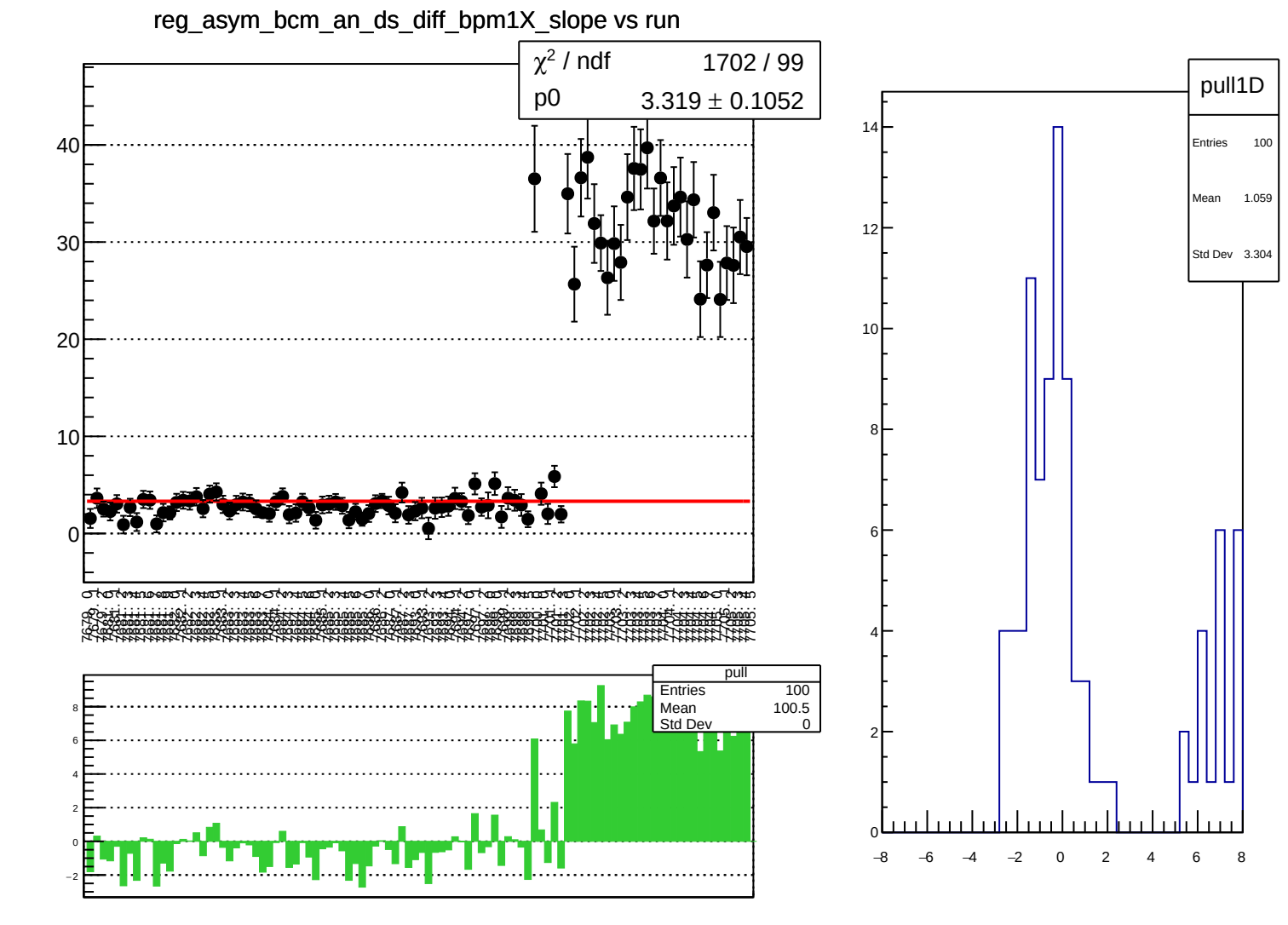

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 325.1 / 99
p0 −0.8966 ± 0.1551
pull
Entries 100
Mean 113.4
Std Dev 0

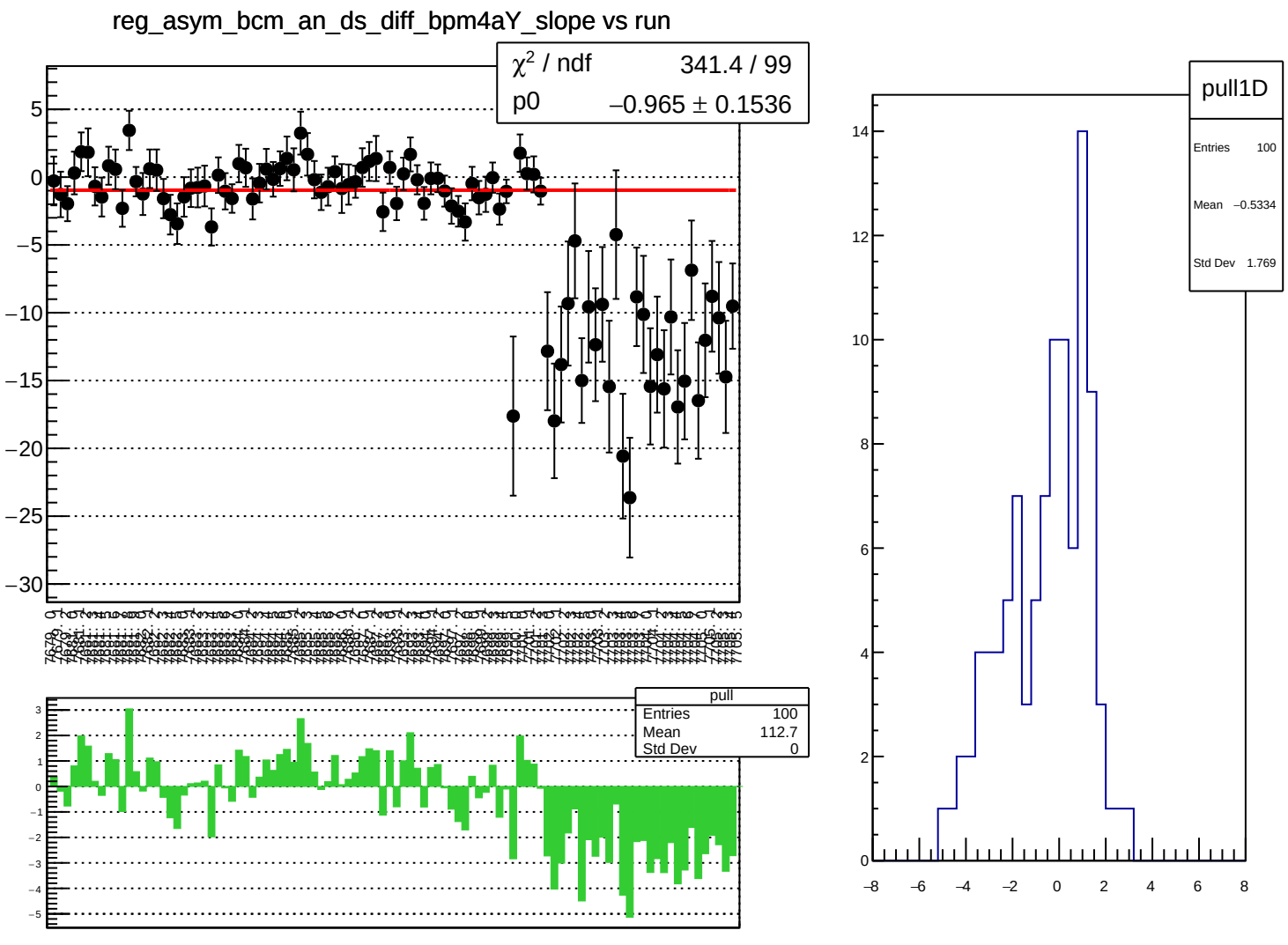

pull1D
Entries 100
Mean −0.5104
Std Dev 1.729

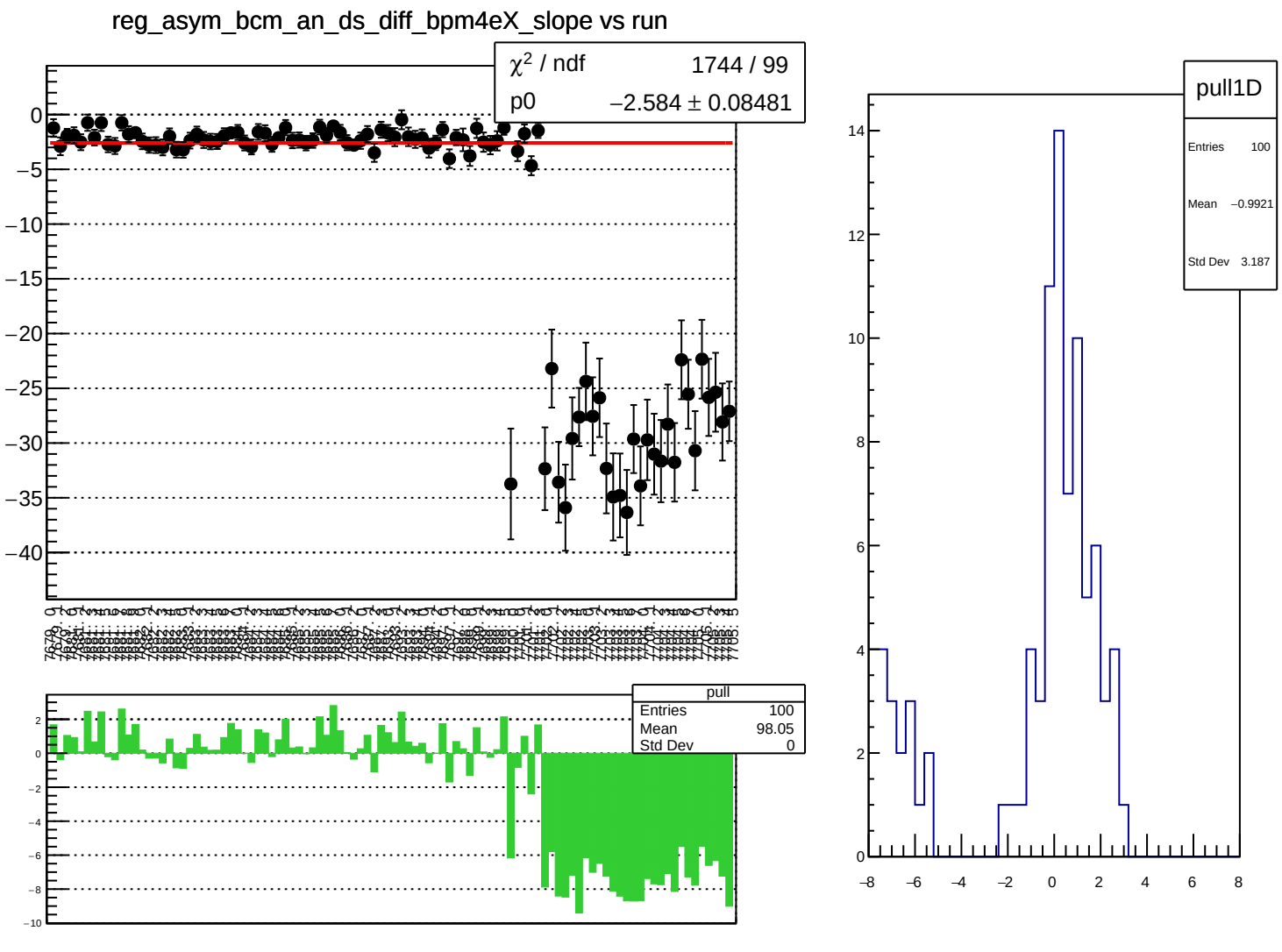

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 1703 / 99
p0 −2.605 ± 0.08578
pull
Entries 100
Mean 98.13
Std Dev 0
pull1D
Entries 100
Mean −1.051
Std Dev 3.218

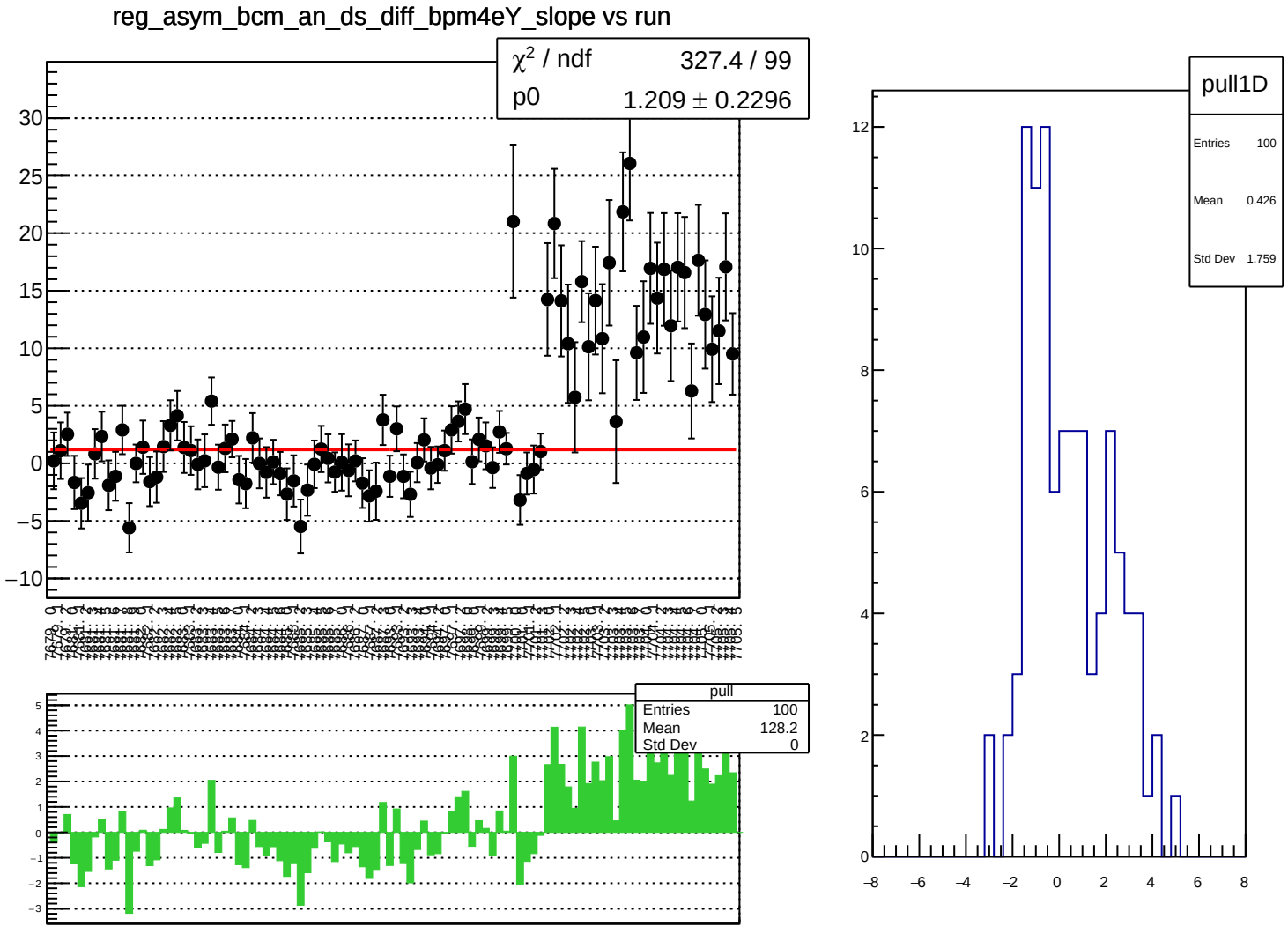

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 313.1 / 99
p0 1.101 ± 0.2318
pull
Entries 100
Mean 129.3
Std Dev 0
pull1D
Entries 100
Mean 0.4074
Std Dev 1.722

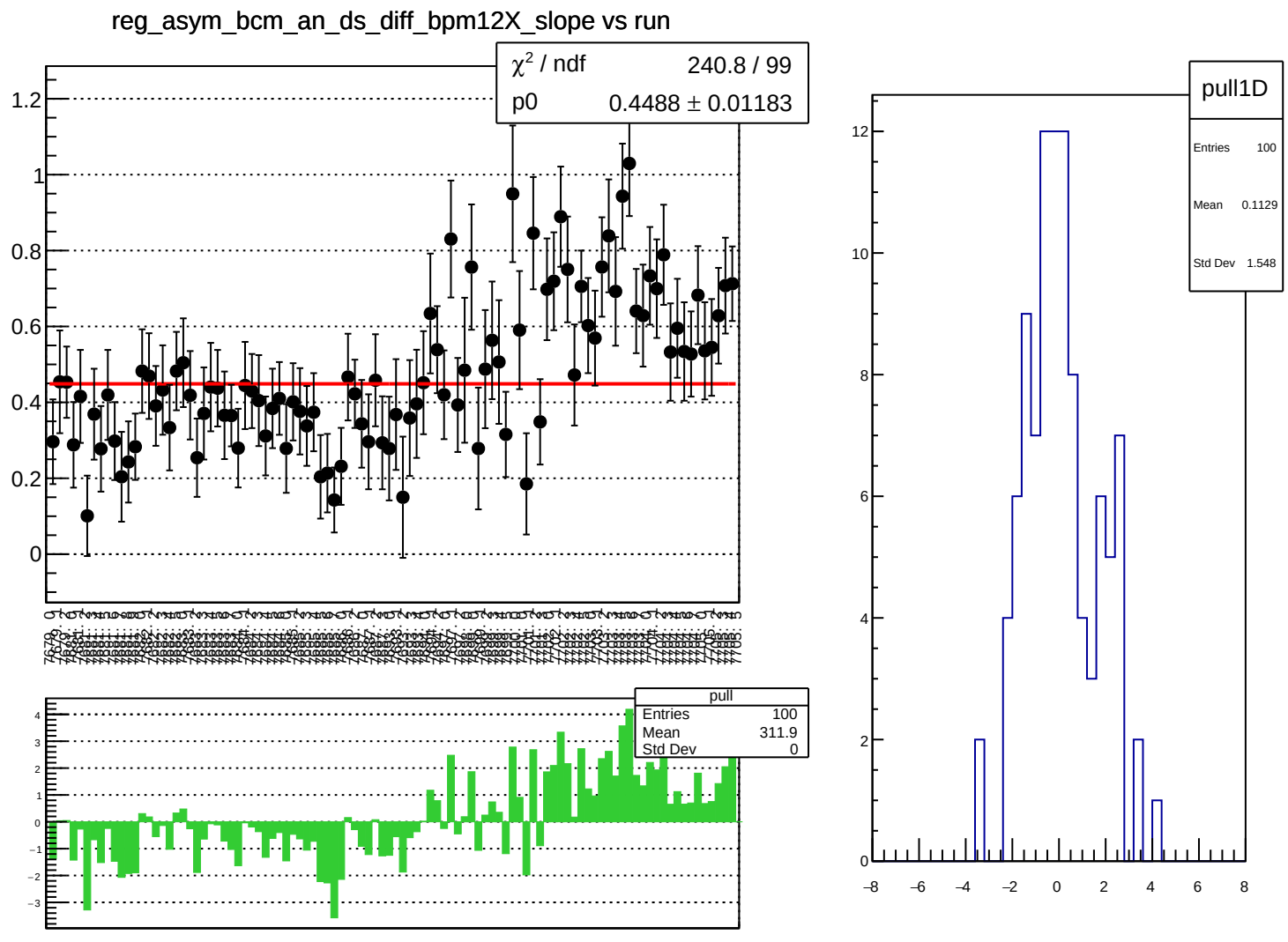

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 230.9 / 99
p0 0.4508 ± 0.01195
pull
Entries 100
Mean 321.3
Std Dev 0
pull1D
Entries 100
Mean 0.105
Std Dev 1.516

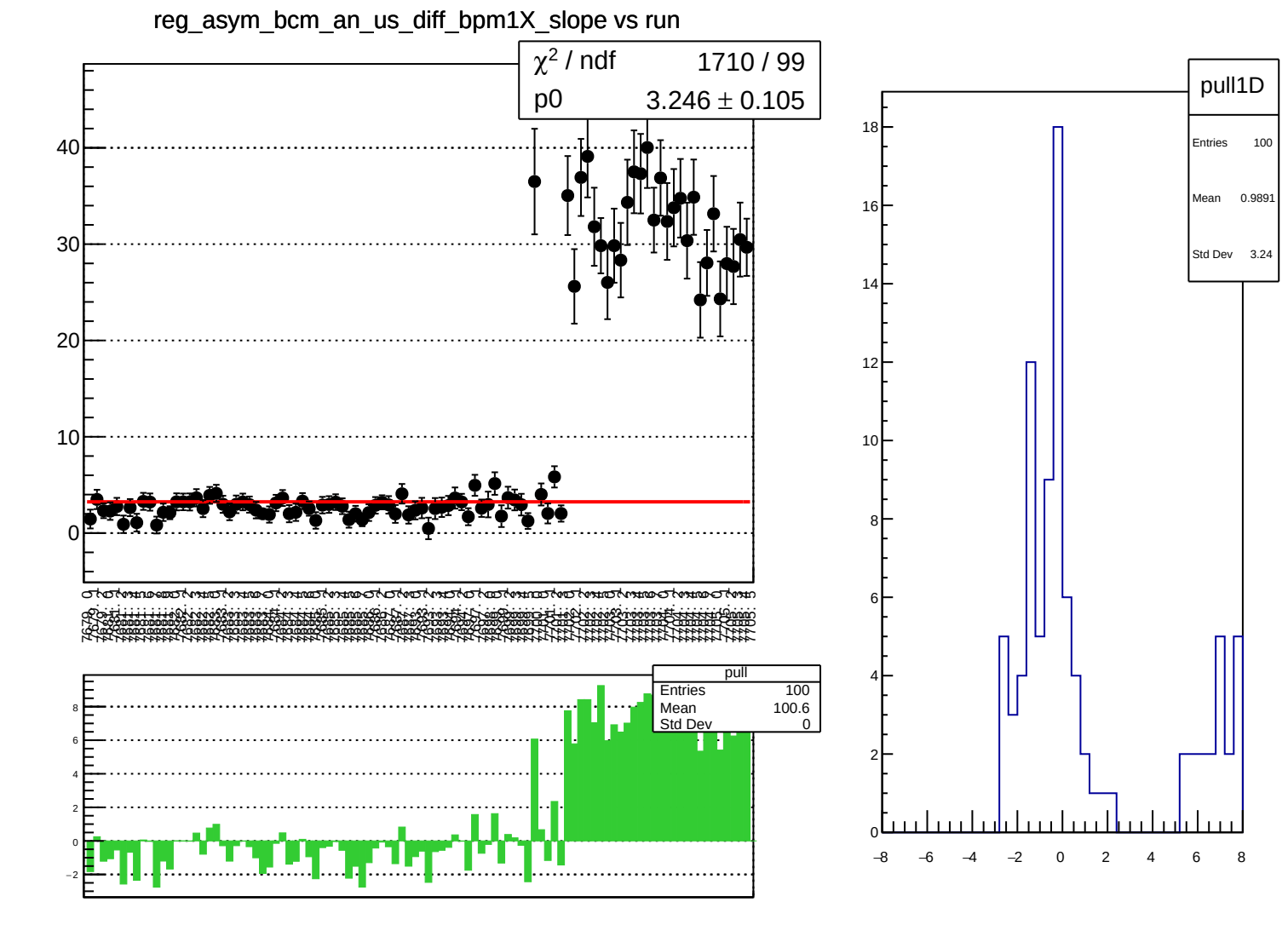

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 1702 / 99
p0 3.319 ± 0.1052
pull
Entries 100
Mean 100.5
Std Dev 0
pull1D
Entries 100
Mean 1.059
Std Dev 3.304

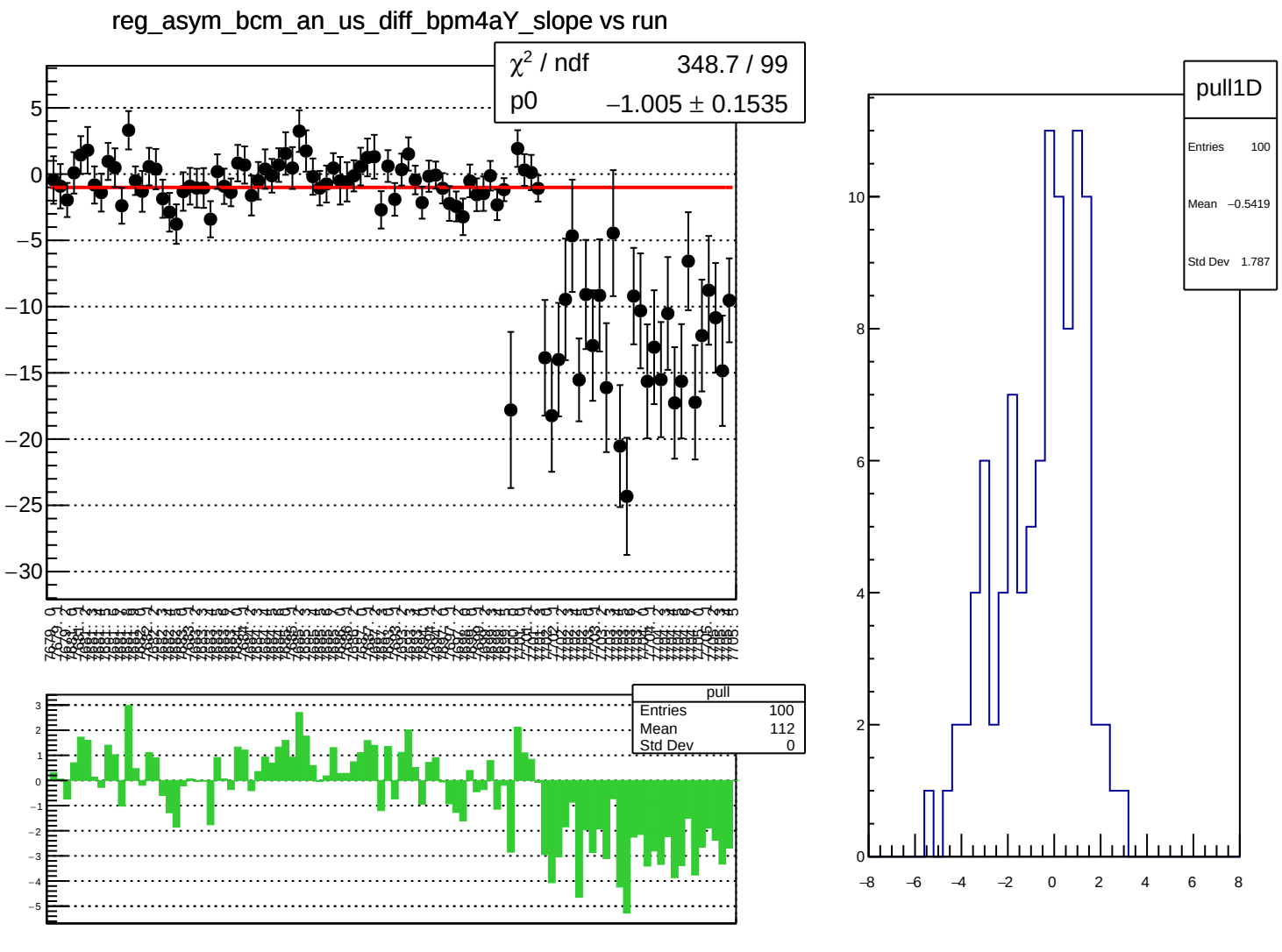

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 341.4 / 99
p0 −0.965 ± 0.1536
pull
Entries 100
Mean 112.7
Std Dev 0
pull1D
Entries 100
Mean −0.5334
Std Dev 1.769

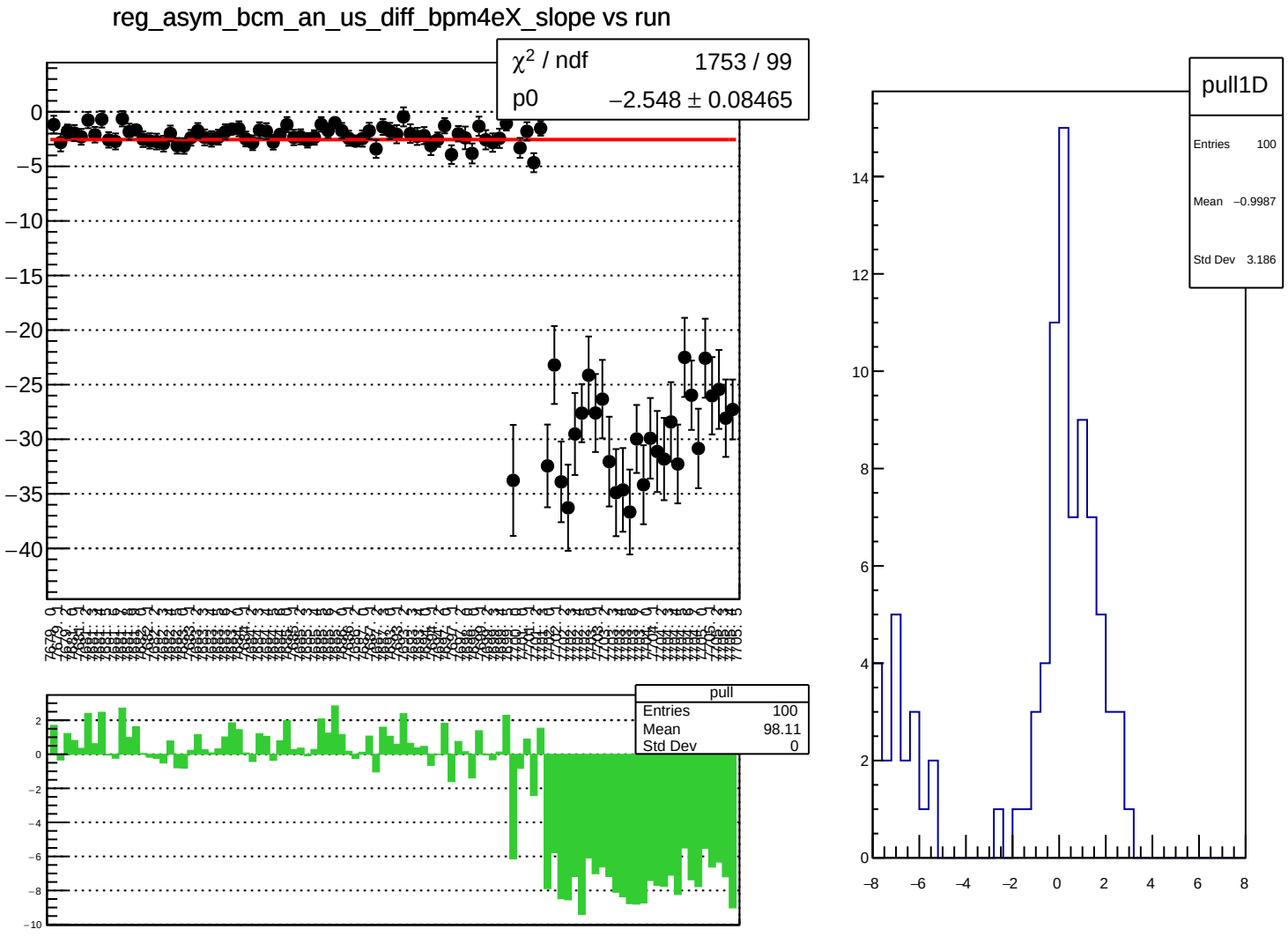

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 1744 / 99
p0 −2.584 ± 0.08481
pull
Entries 100
Mean 98.05
Std Dev 0
pull1D
Entries 100
Mean −0.9921
Std Dev 3.187

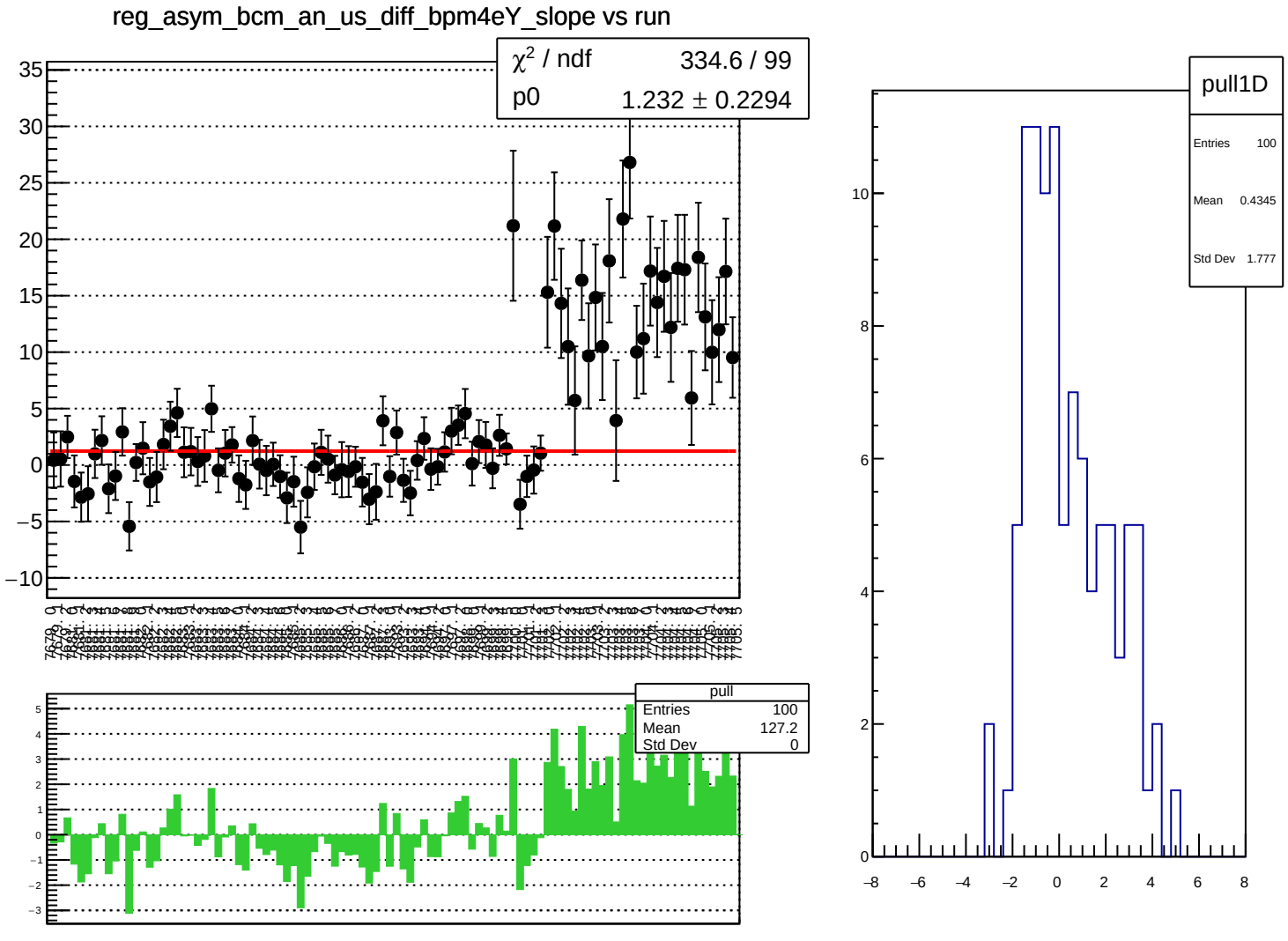

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 327.4 / 99
p0 1.209 ± 0.2296
pull
Entries 100
Mean 128.2
Std Dev 0
pull1D
Entries 100
Mean 0.426
Std Dev 1.759

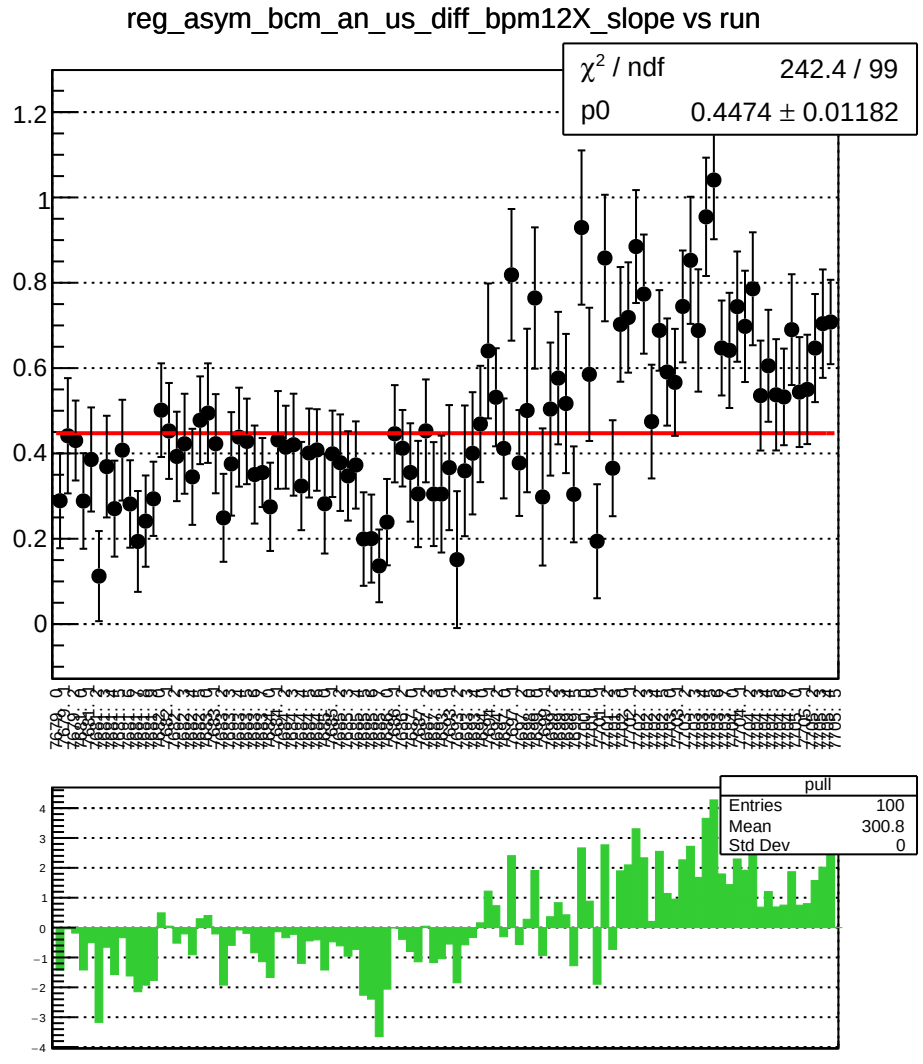

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 240.8 / 99
p0 0.4488 ± 0.01183
pull
Entries 100
Mean 311.9
Std Dev 0
pull1D
Entries 100
Mean 0.1129
Std Dev 1.548

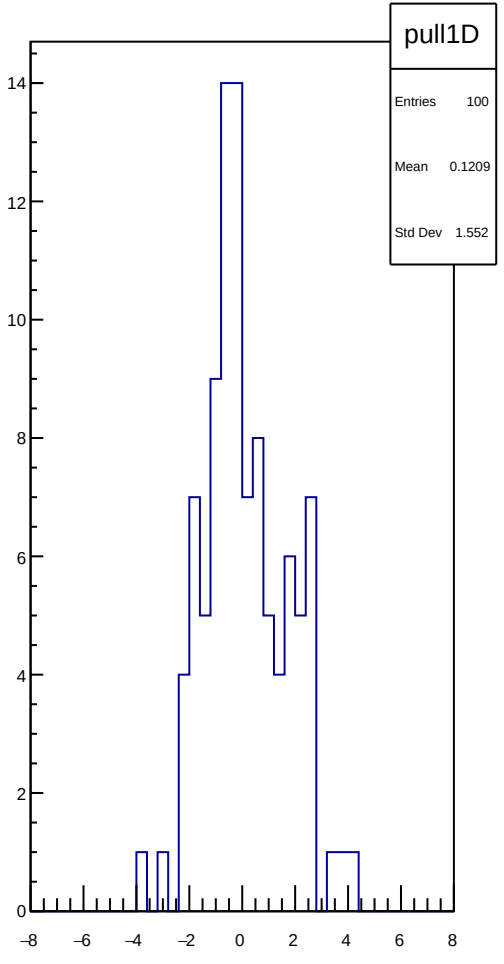

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 1710 / 99
p0 3.246 ± 0.105
40
30
20
10
0
pull
Entries 100
Mean 100.6
Std Dev 0
8
6
4
2
0
−2
pull1D
Entries 100
Mean 0.9891
Std Dev 3.24
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

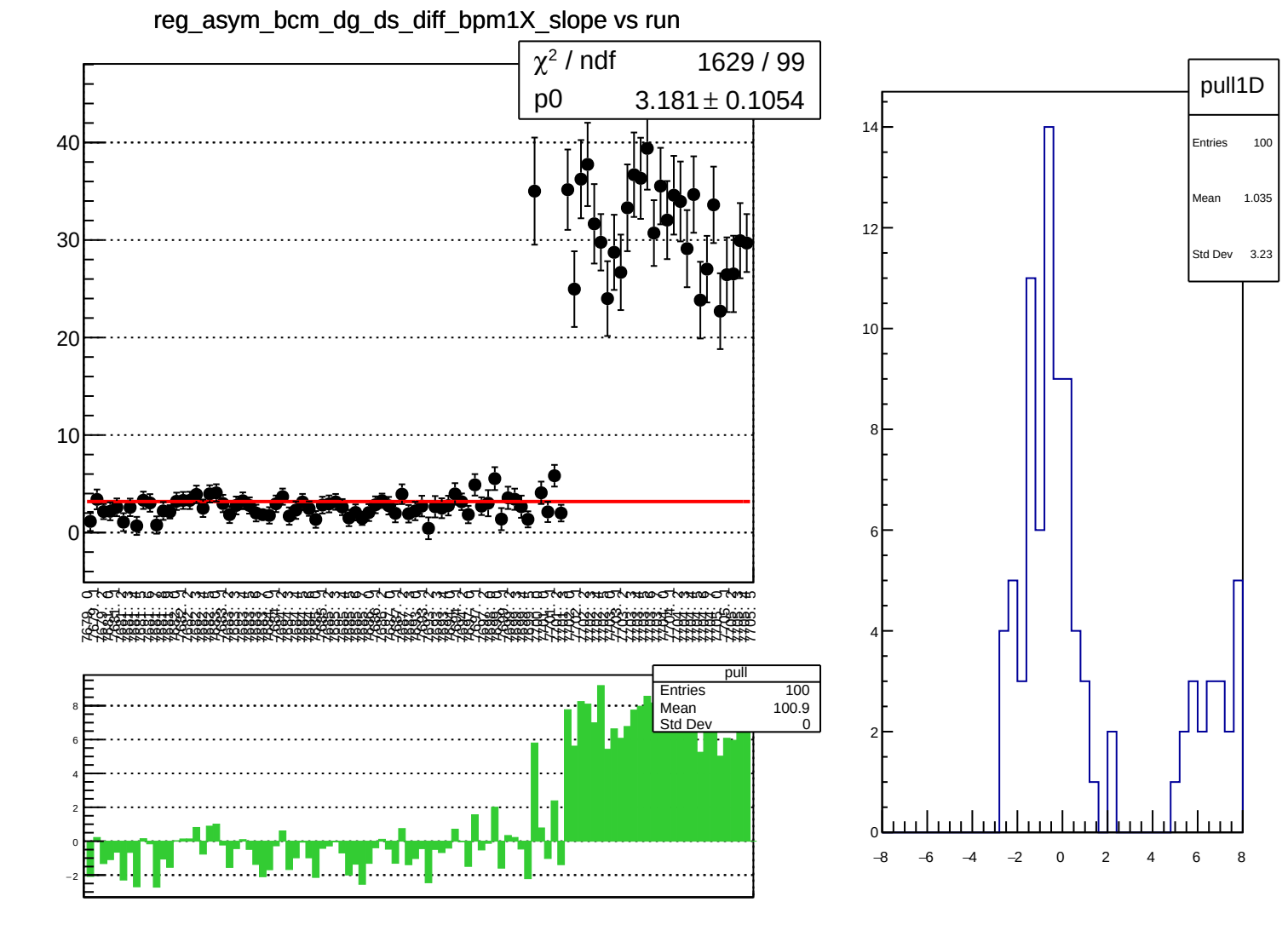

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 348.7 / 99
p0 −1.005 ± 0.1535
pull
Entries 100
Mean 112
Std Dev 0
pull1D
Entries 100
Mean −0.5419
Std Dev 1.787

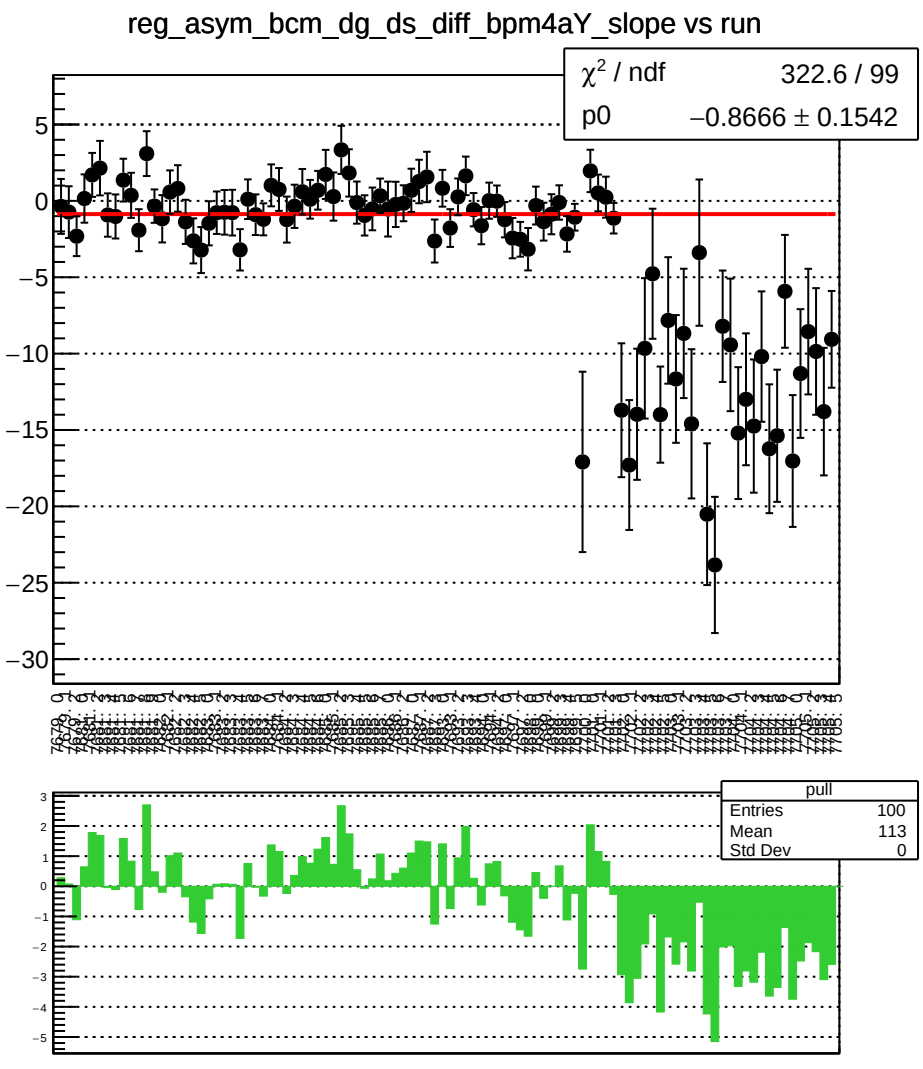

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 1753 / 99
p0 −2.548 ± 0.08465
pull
Entries 100
Mean 98.11
Std Dev 0
pull1D
Entries 100
Mean −0.9987
Std Dev 3.186

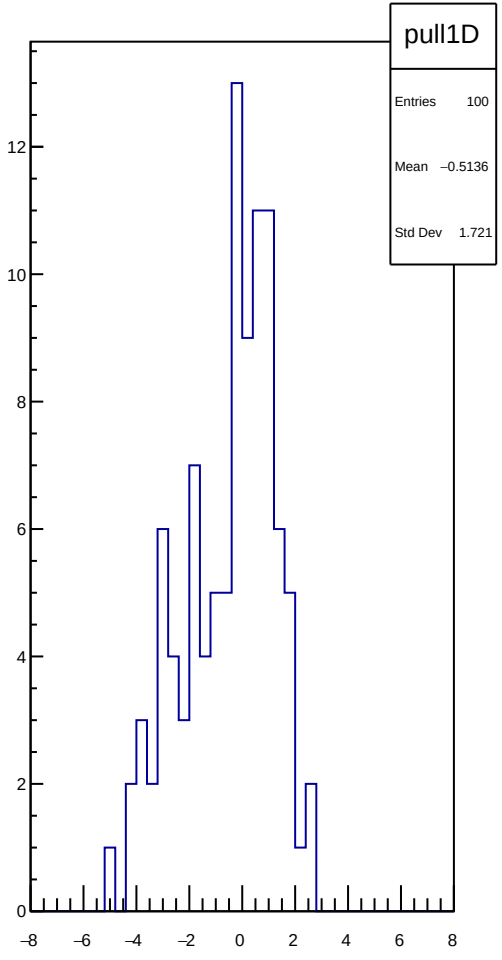

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 334.6 / 99
p0 1.232 ± 0.2294
pull
Entries 100
Mean 127.2
Std Dev 0
pull1D
Entries 100
Mean 0.4345
Std Dev 1.777

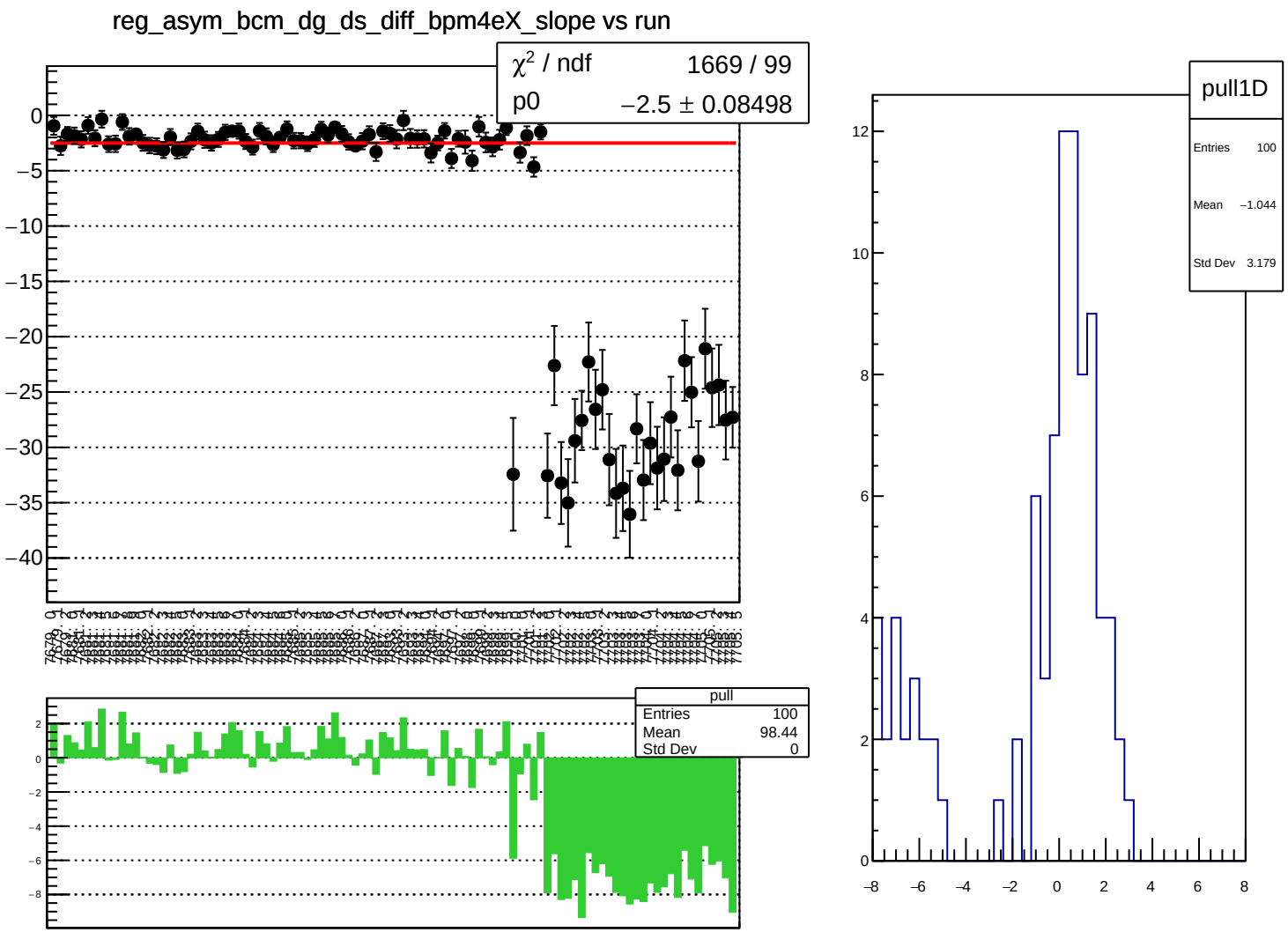

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 242.4 / 99
p0 0.4474 ± 0.01182
pull
Entries 100
Mean 300.8
Std Dev 0

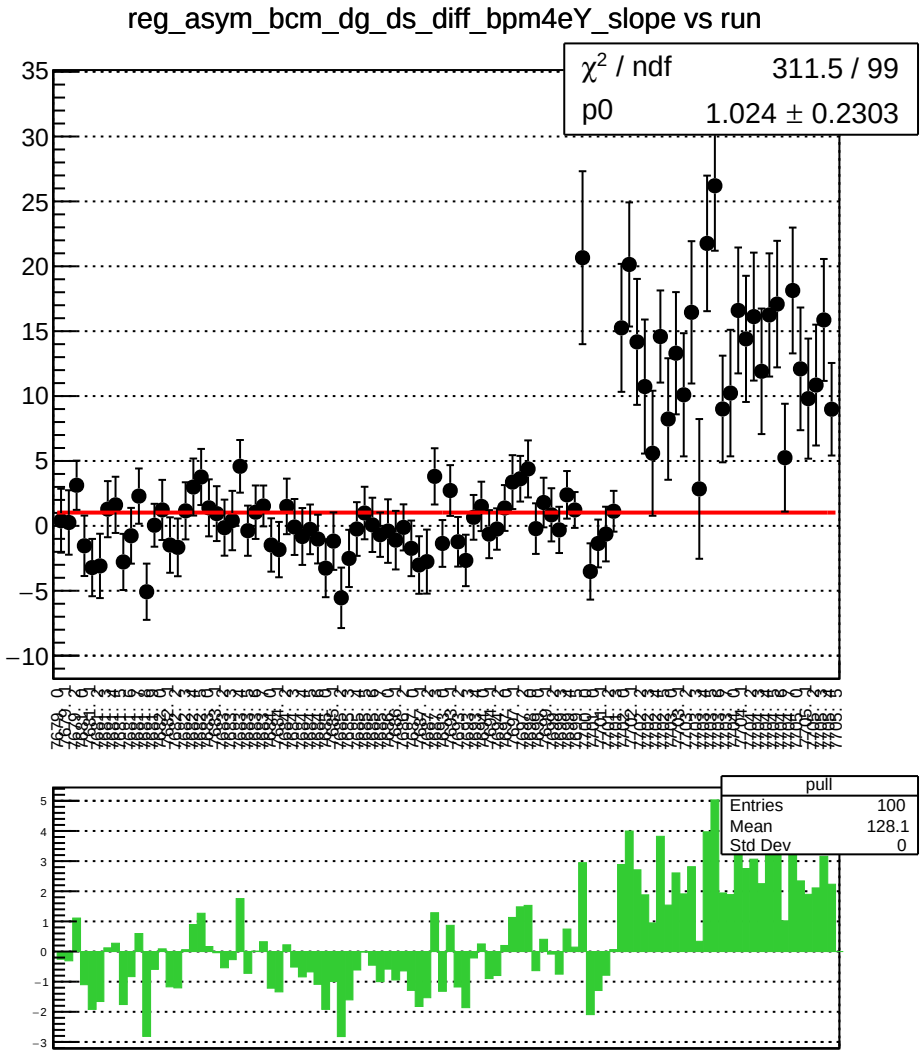

pull1D
Entries 100
Mean 0.1209
Std Dev 1.552

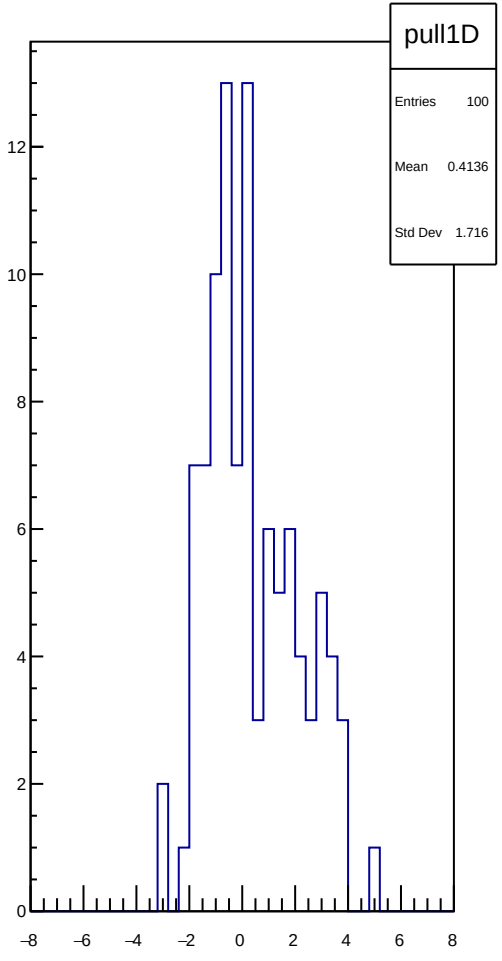

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 1629 / 99
p0 3.181 ± 0.1054
pull
Entries 100
Mean 100.9
Std Dev 0
pull1D
Entries 100
Mean 1.035
Std Dev 3.23

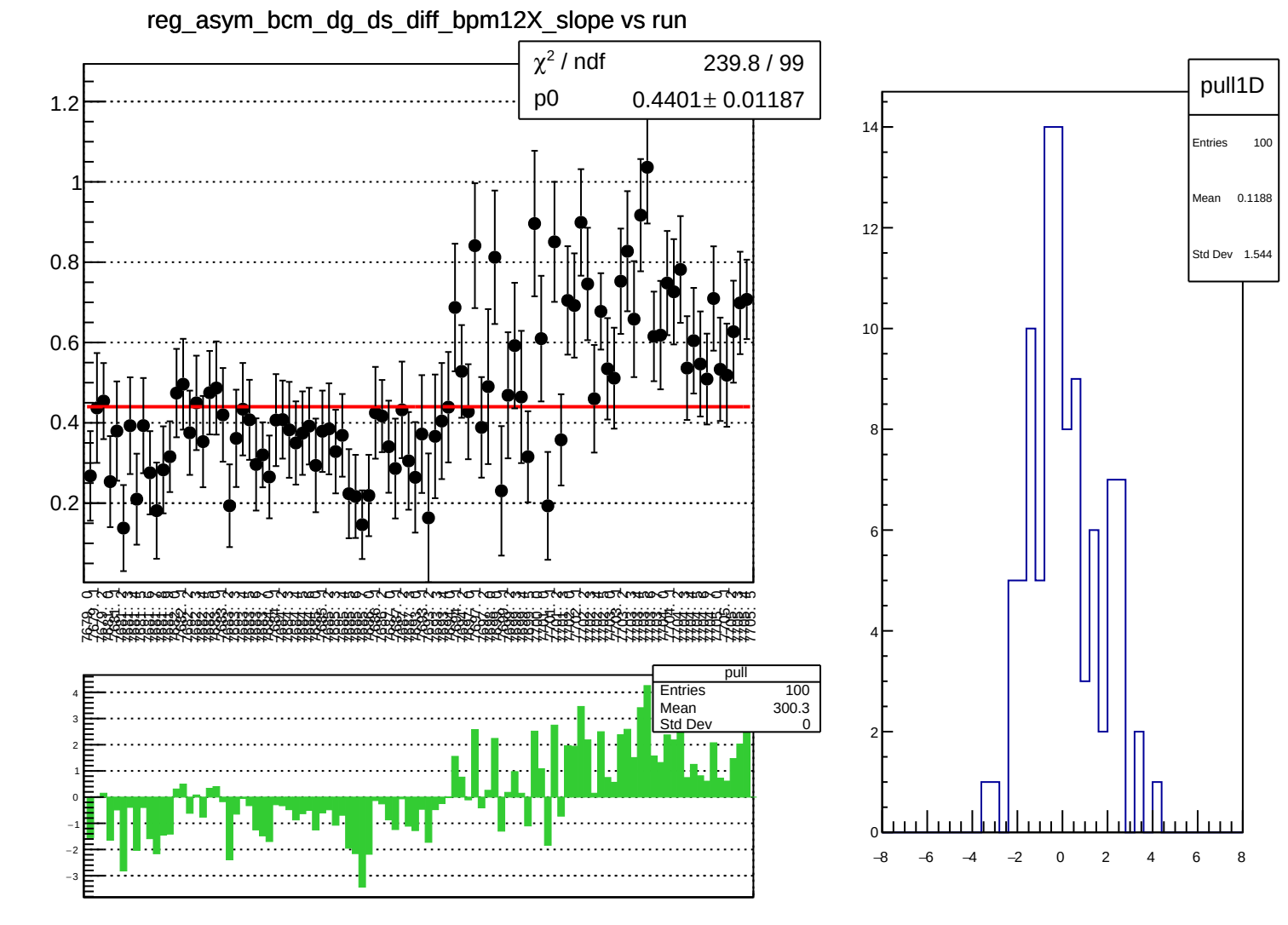

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 322.6 / 99
p0 −0.8666 ± 0.1542
pull
Entries 100
Mean 113
Std Dev 0

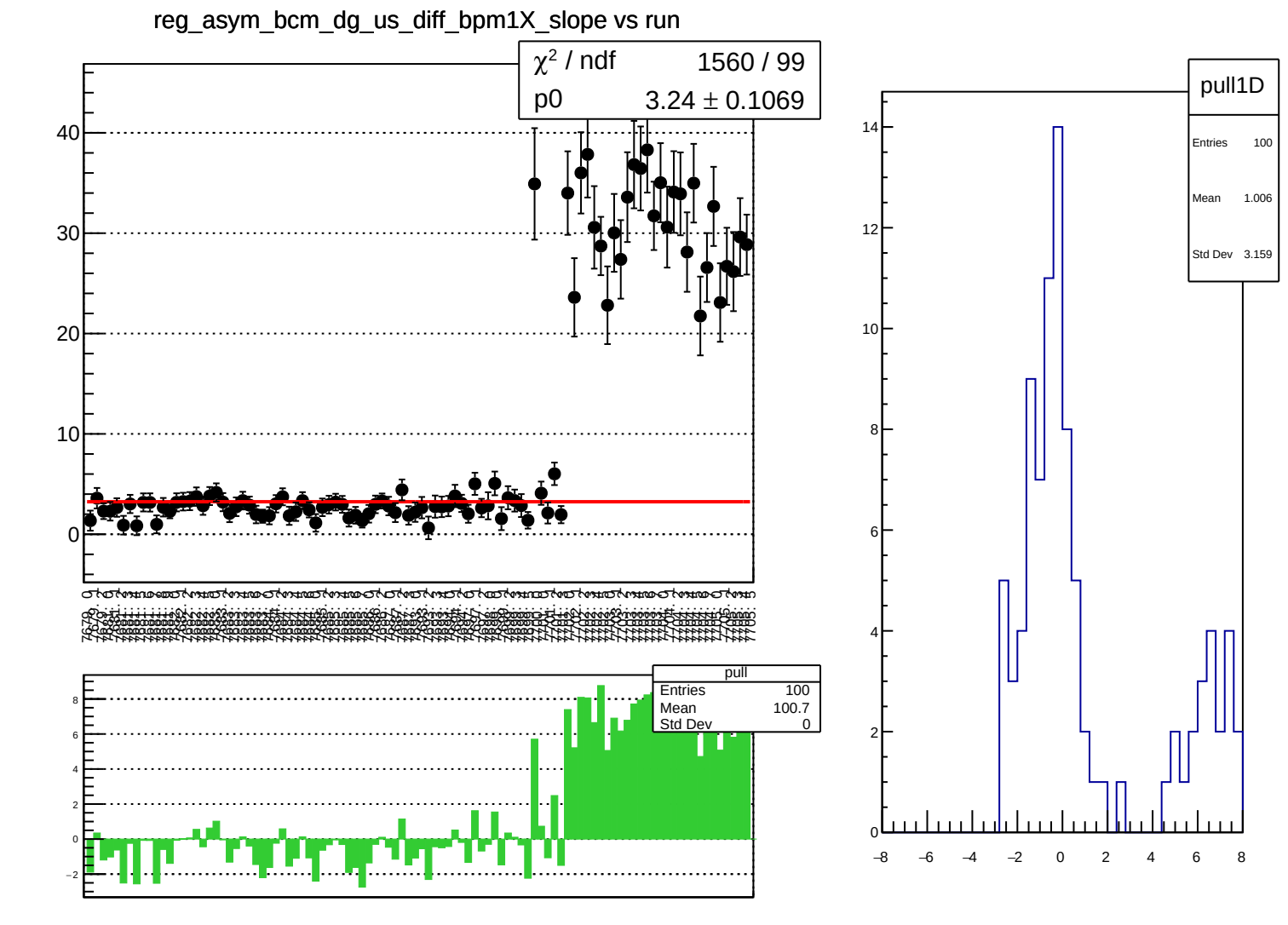

pull1D
Entries 100
Mean −0.5136
Std Dev 1.721

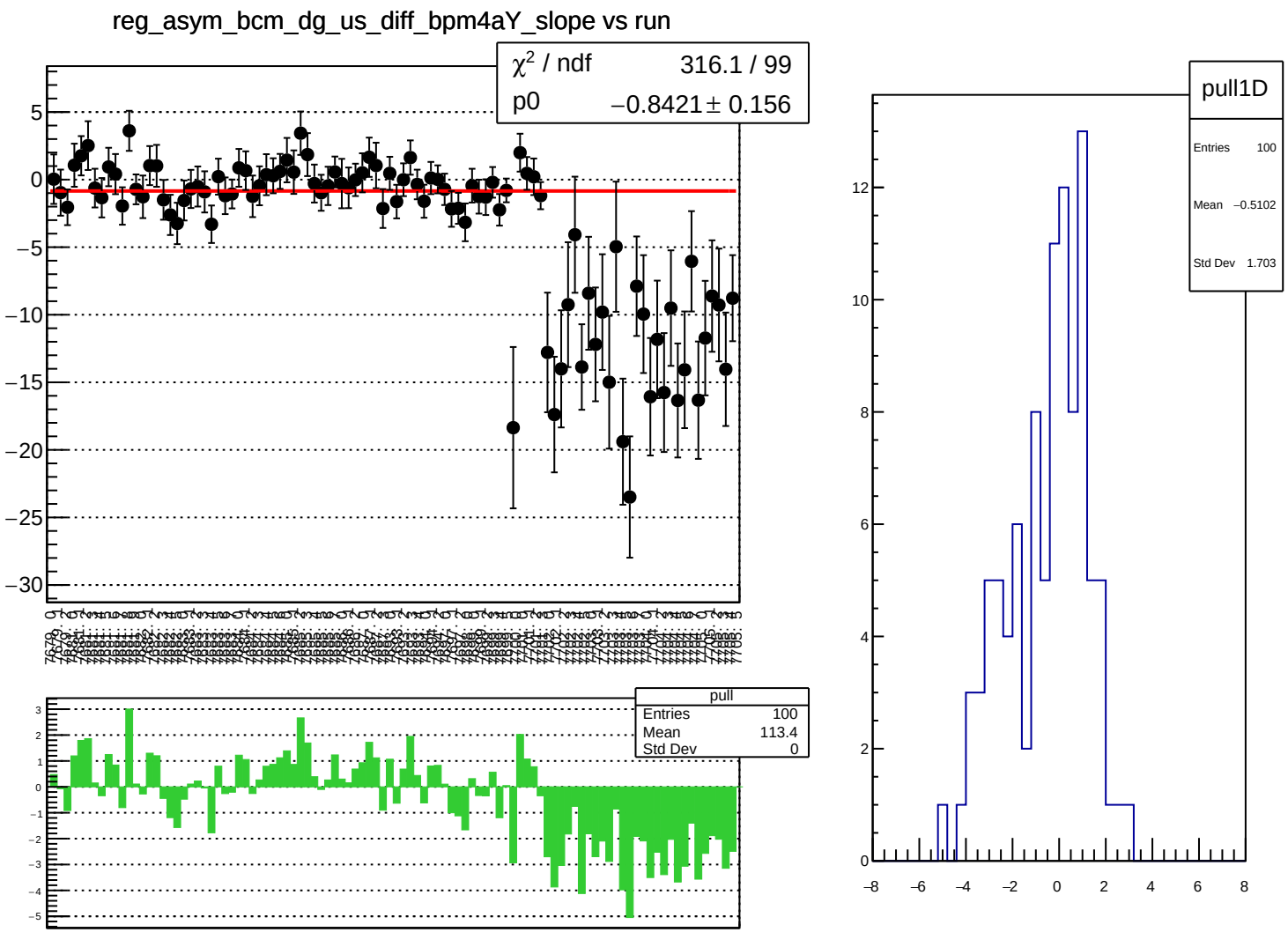

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 1669 / 99
p0 −2.5 ± 0.08498
pull
Entries 100
Mean 98.44
Std Dev 0
pull1D
Entries 100
Mean −1.044
Std Dev 3.179

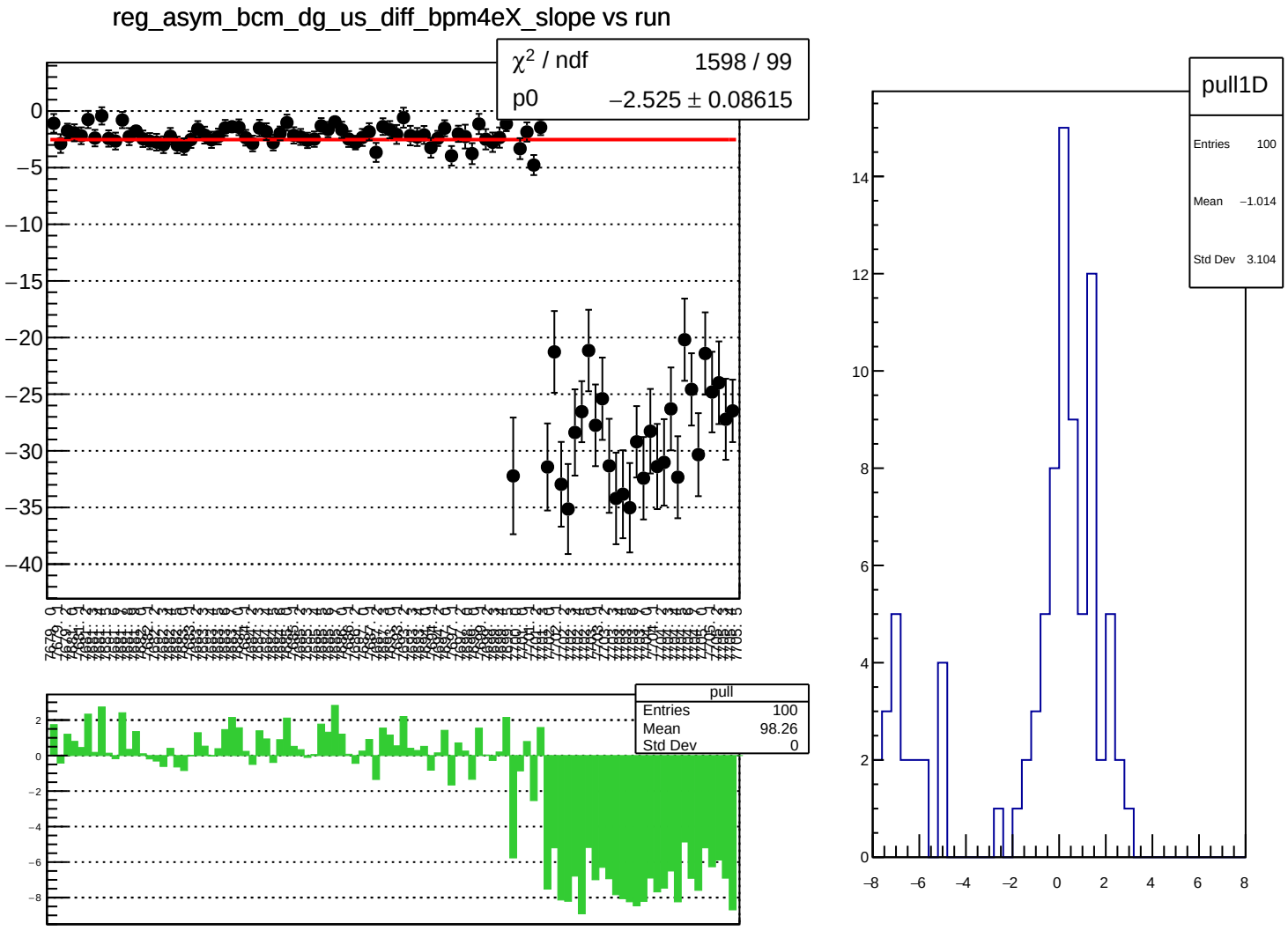

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 311.5 / 99
p0 1.024 ± 0.2303
pull
Entries 100
Mean 128.1
Std Dev 0

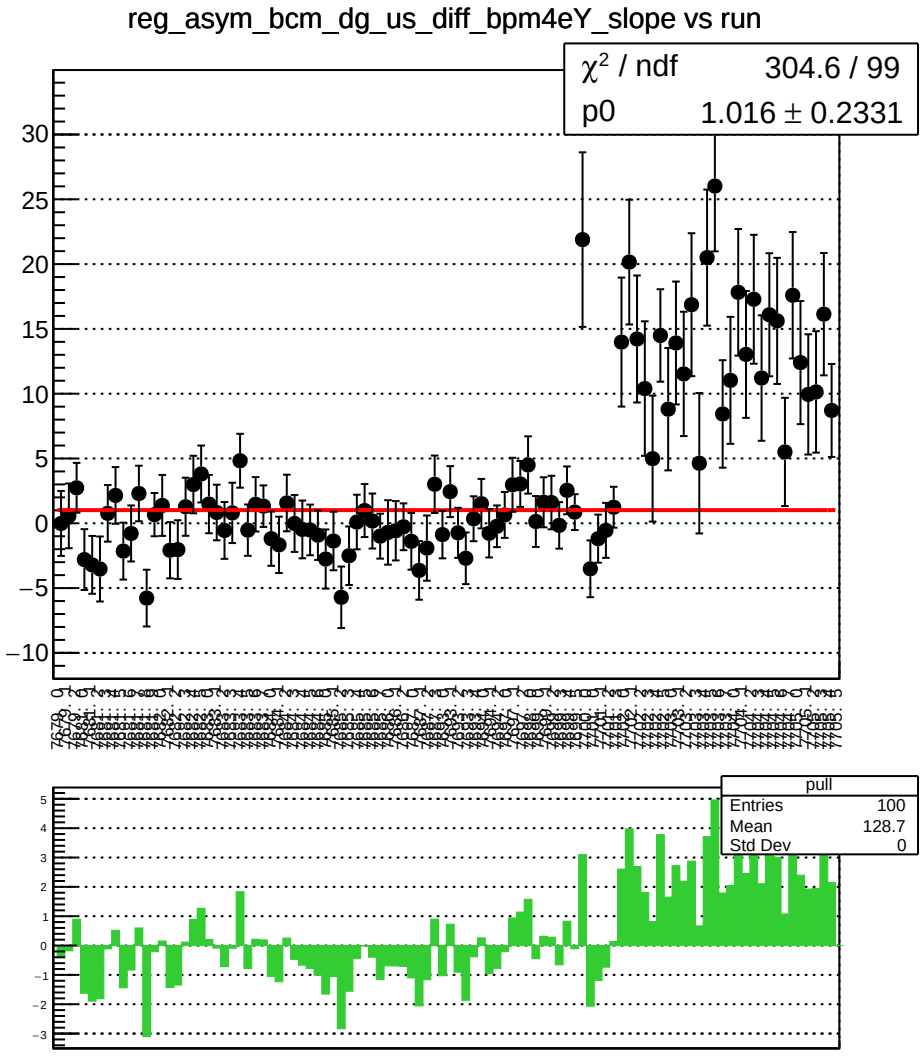

pull1D
Entries 100
Mean 0.4136
Std Dev 1.716

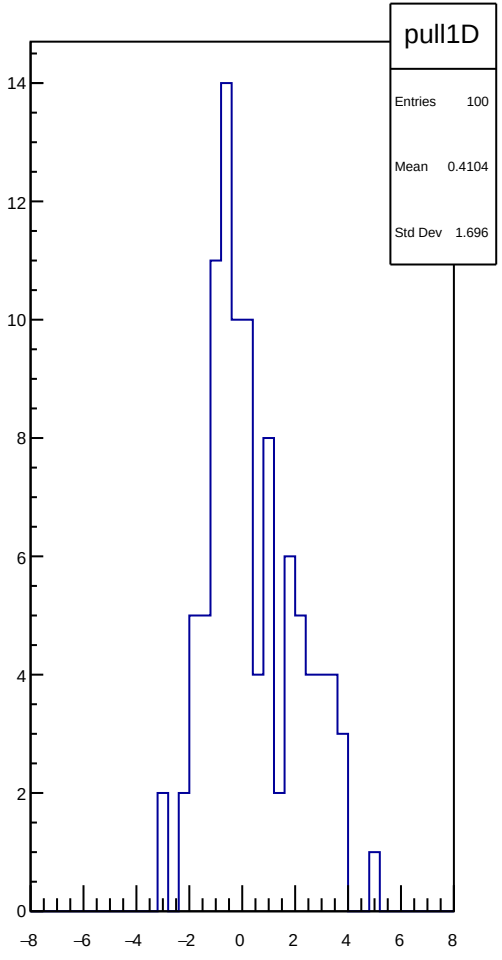

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 239.8 / 99
p0 0.4401± 0.01187
pull
Entries 100
Mean 300.3
Std Dev 0
pull1D
Entries 100
Mean 0.1188
Std Dev 1.544

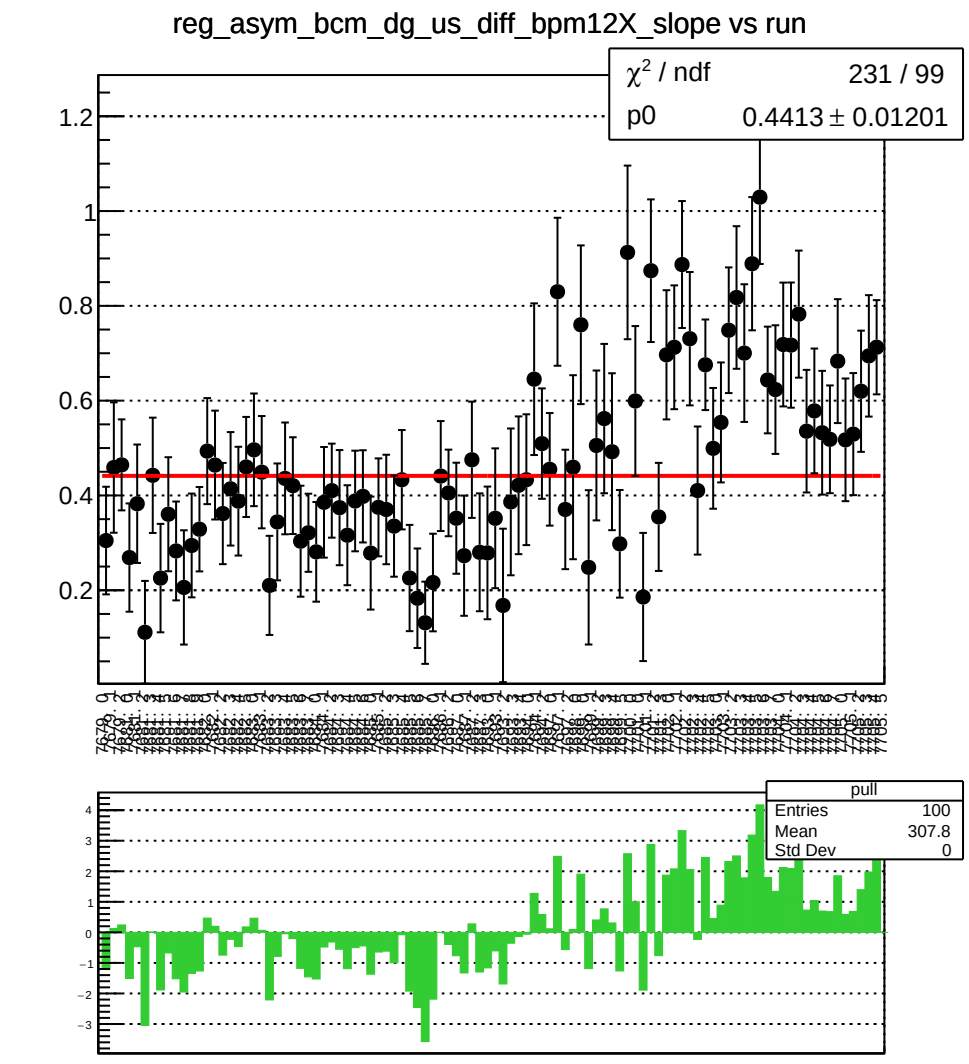

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 1560 / 99
p0 3.24 ± 0.1069
pull
Entries 100
Mean 100.7
Std Dev 0
pull1D
Entries 100
Mean 1.006
Std Dev 3.159

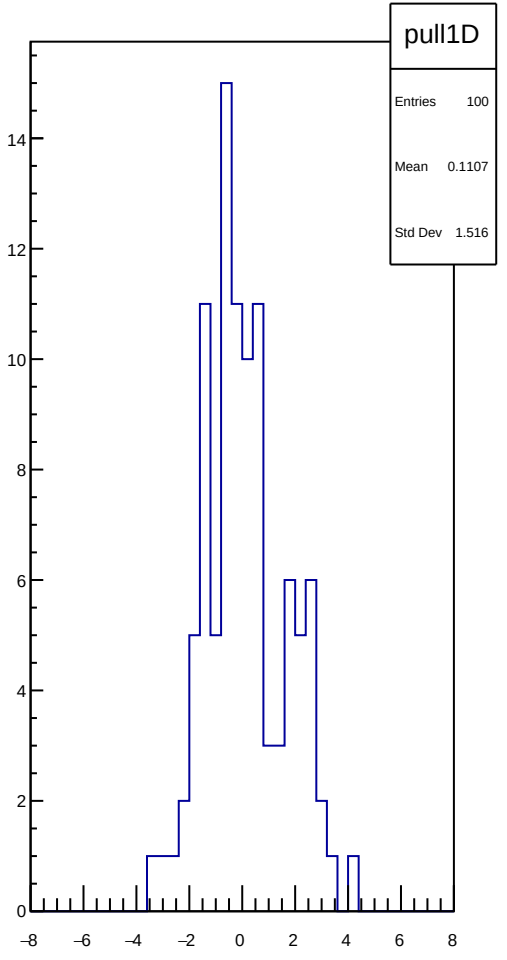

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 316.1 / 99
p0 −0.8421 ± 0.156
pull
Entries 100
Mean 113.4
Std Dev 0
pull1D
Entries 100
Mean −0.5102
Std Dev 1.703

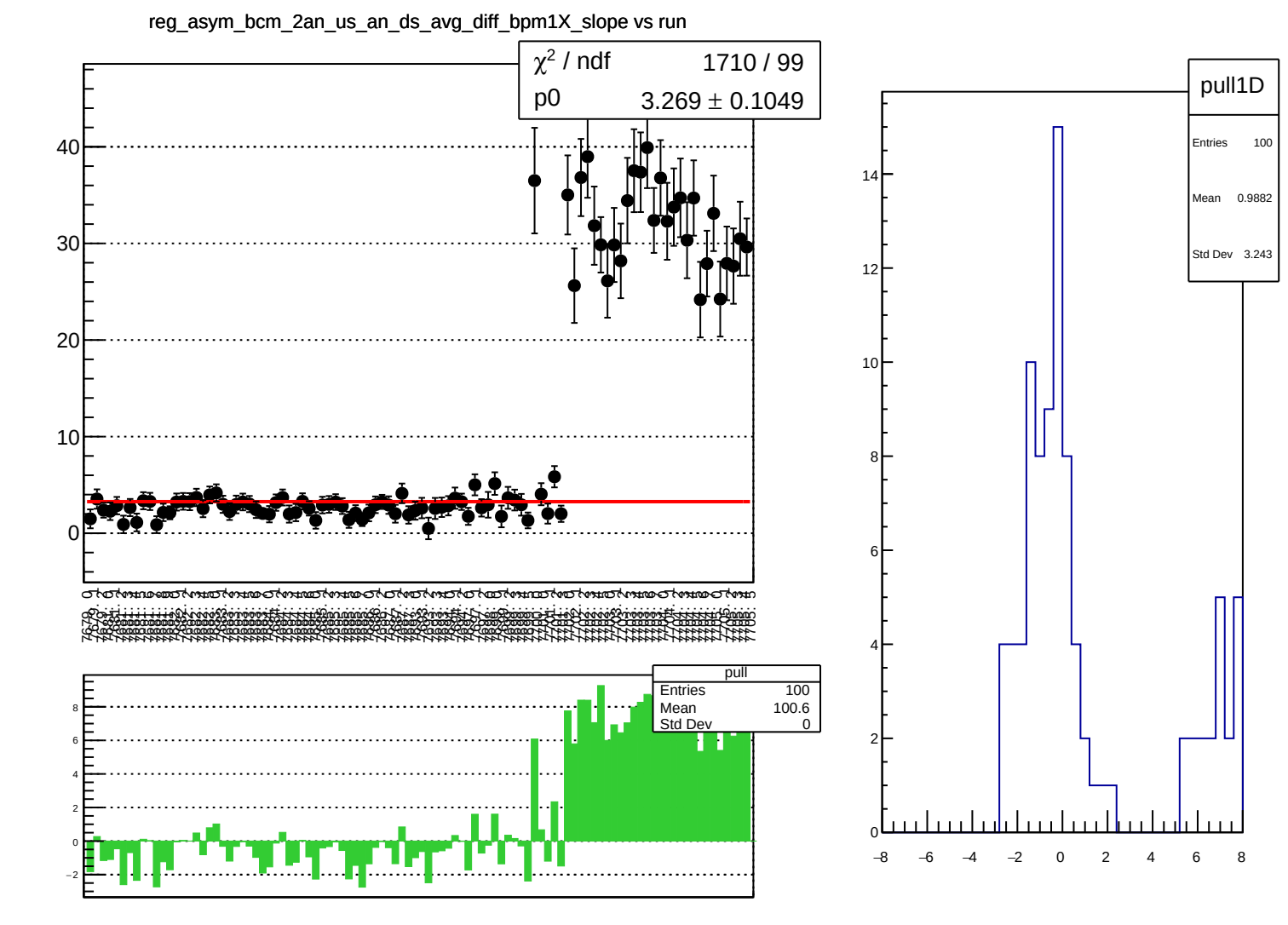

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 1598 / 99
p0 −2.525 ± 0.08615
pull
Entries 100
Mean 98.26
Std Dev 0
pull1D
Entries 100
Mean −1.014
Std Dev 3.104

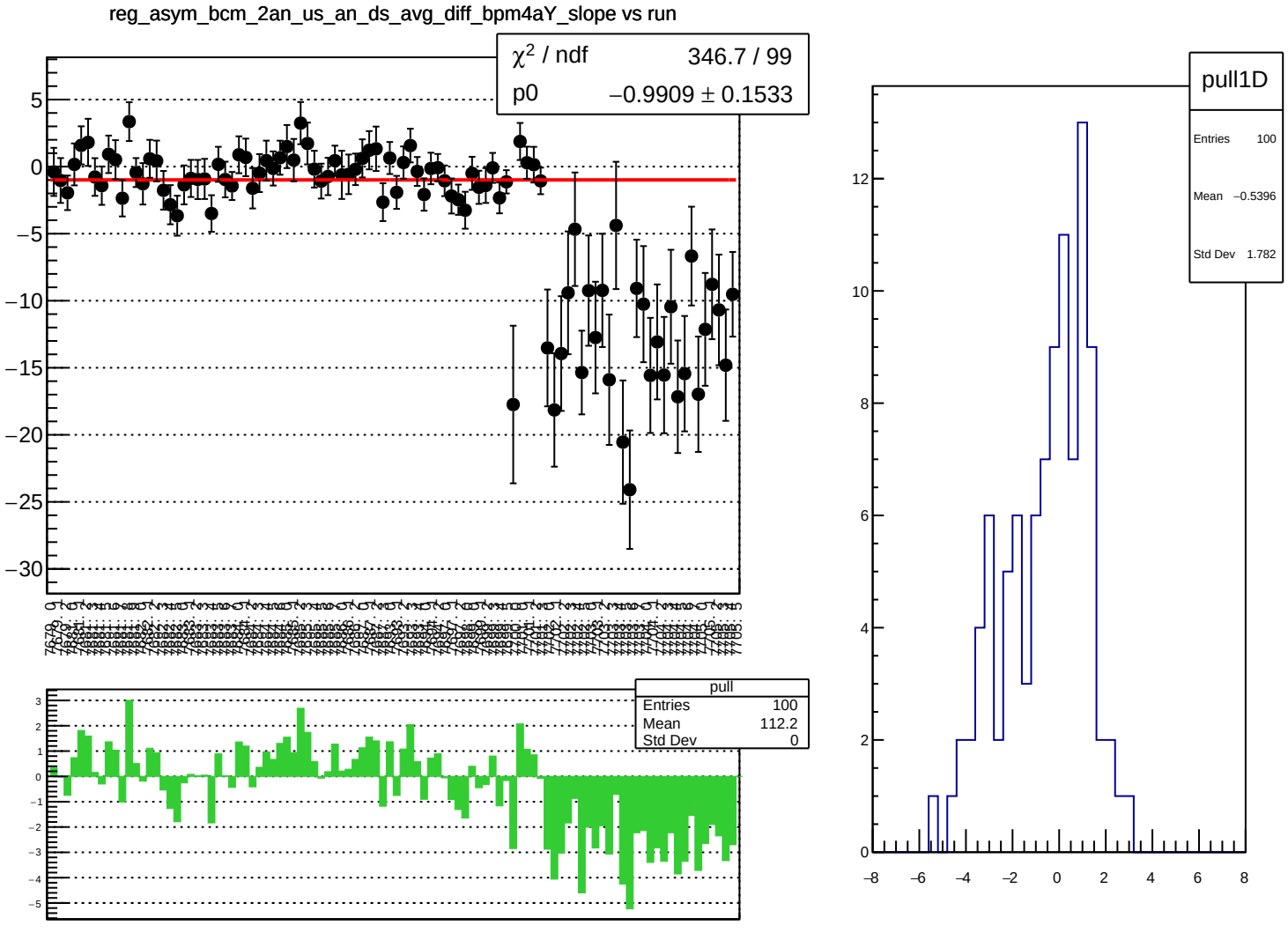

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 304.6 / 99
p0 1.016 ± 0.2331
pull
Entries 100
Mean 128.7
Std Dev 0

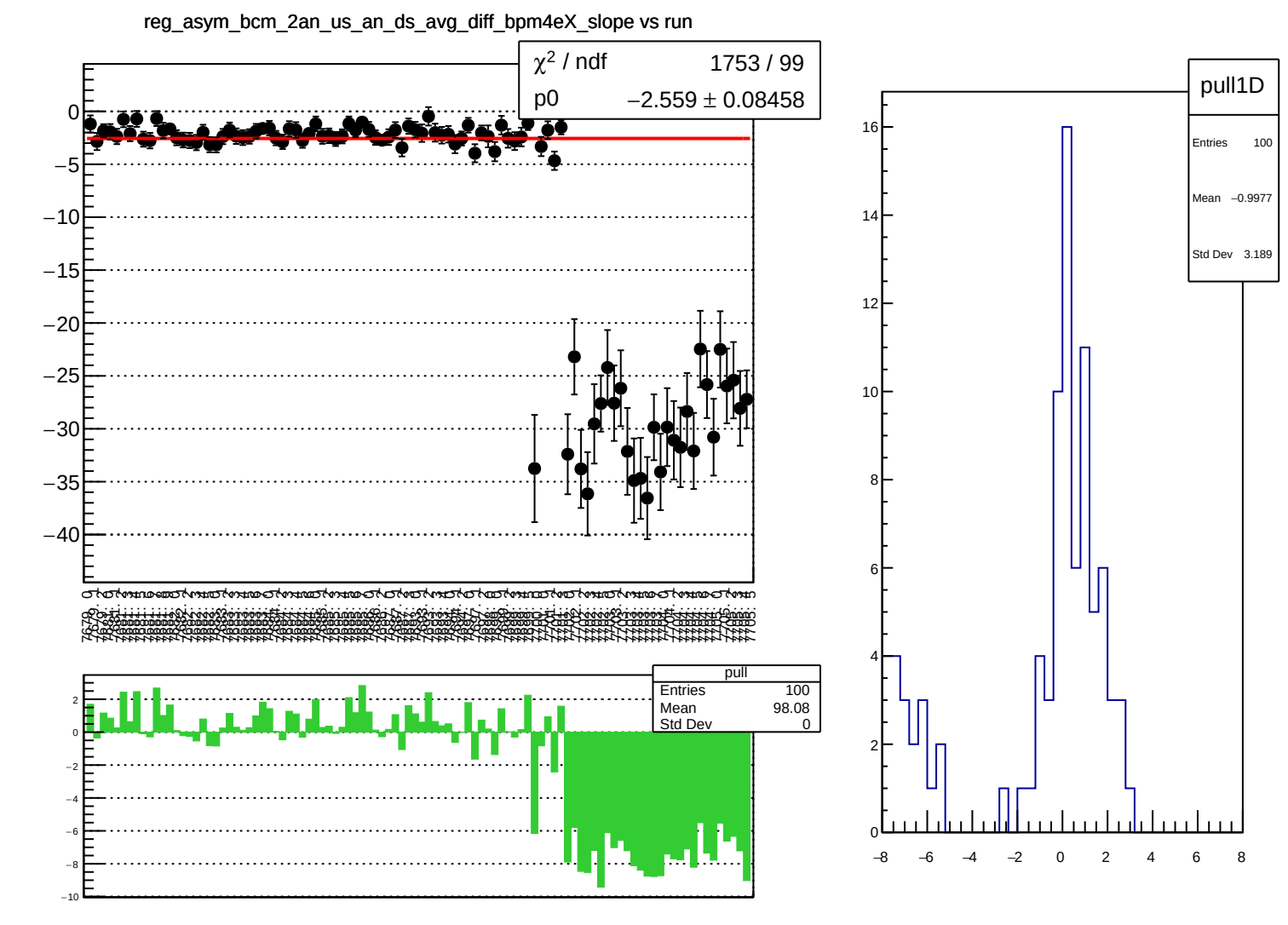

pull1D
Entries 100
Mean 0.4104
Std Dev 1.696

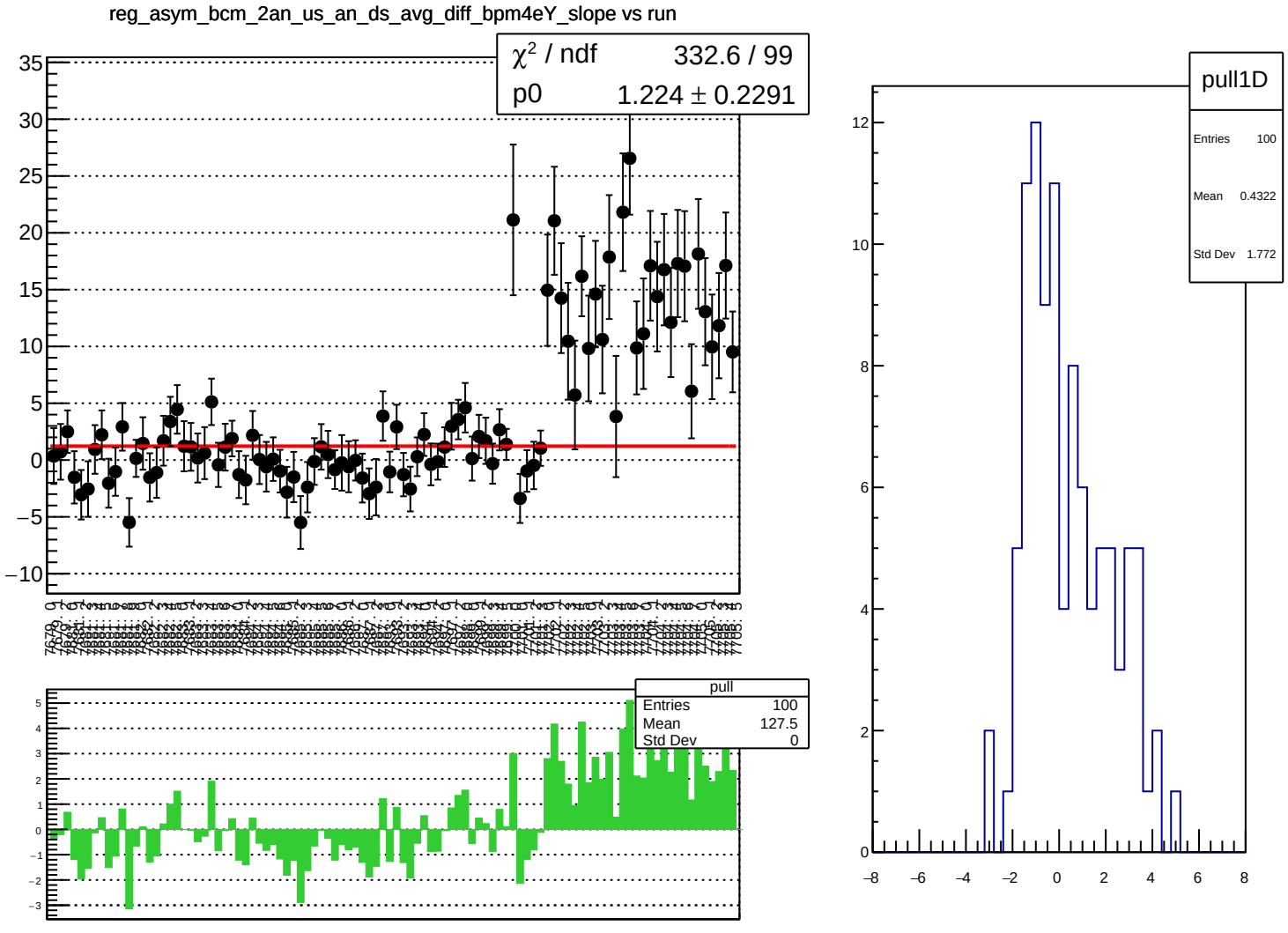

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 231 / 99
p0 0.4413 ± 0.01201
pull
Entries 100
Mean 307.8
Std Dev 0

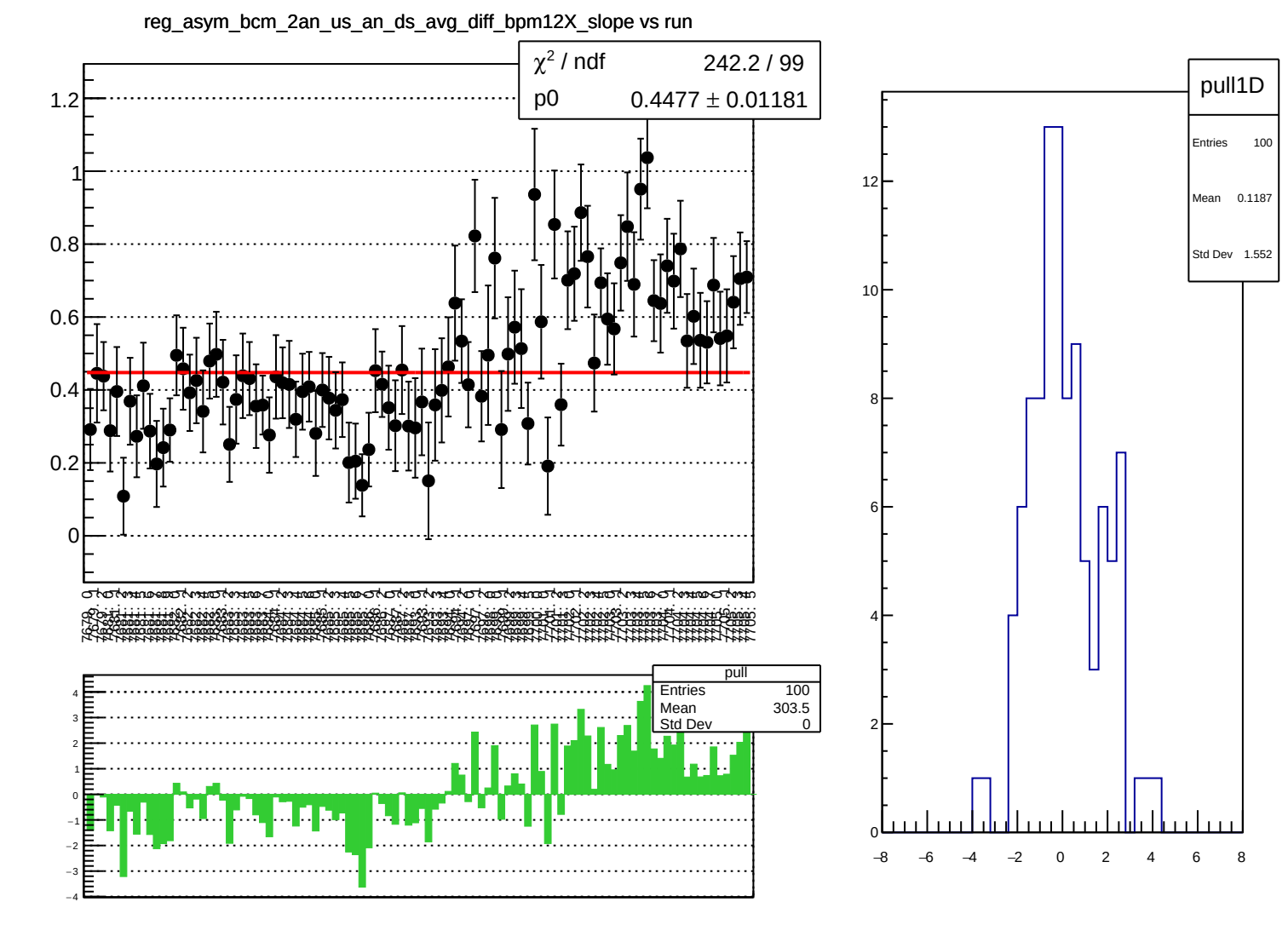

pull1D
Entries 100
Mean 0.1107
Std Dev 1.516

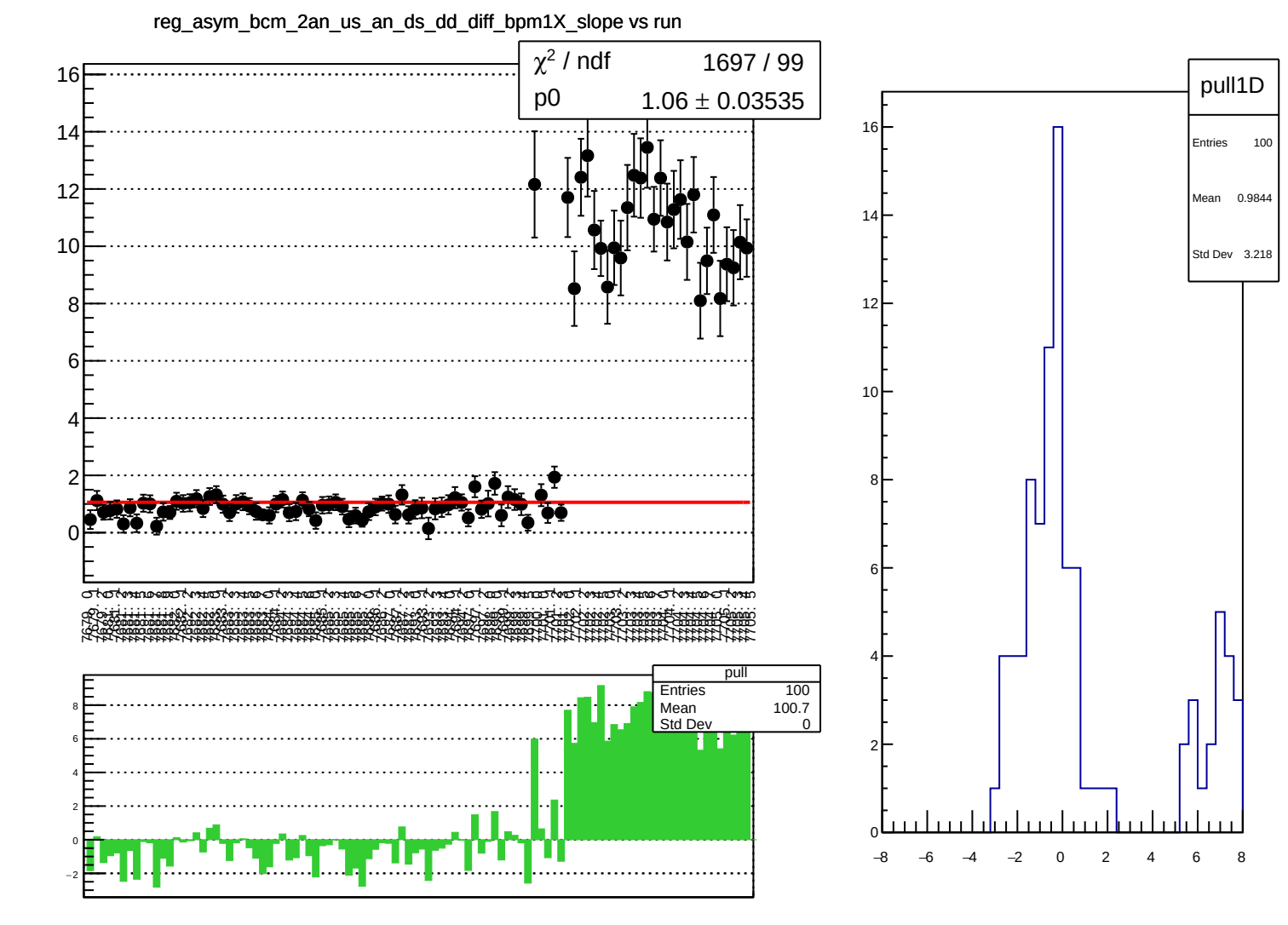

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 1710 / 99
p0 3.269 ± 0.1049
pull
Entries 100
Mean 100.6
Std Dev 0
pull1D
Entries 100
Mean 0.9882
Std Dev 3.243

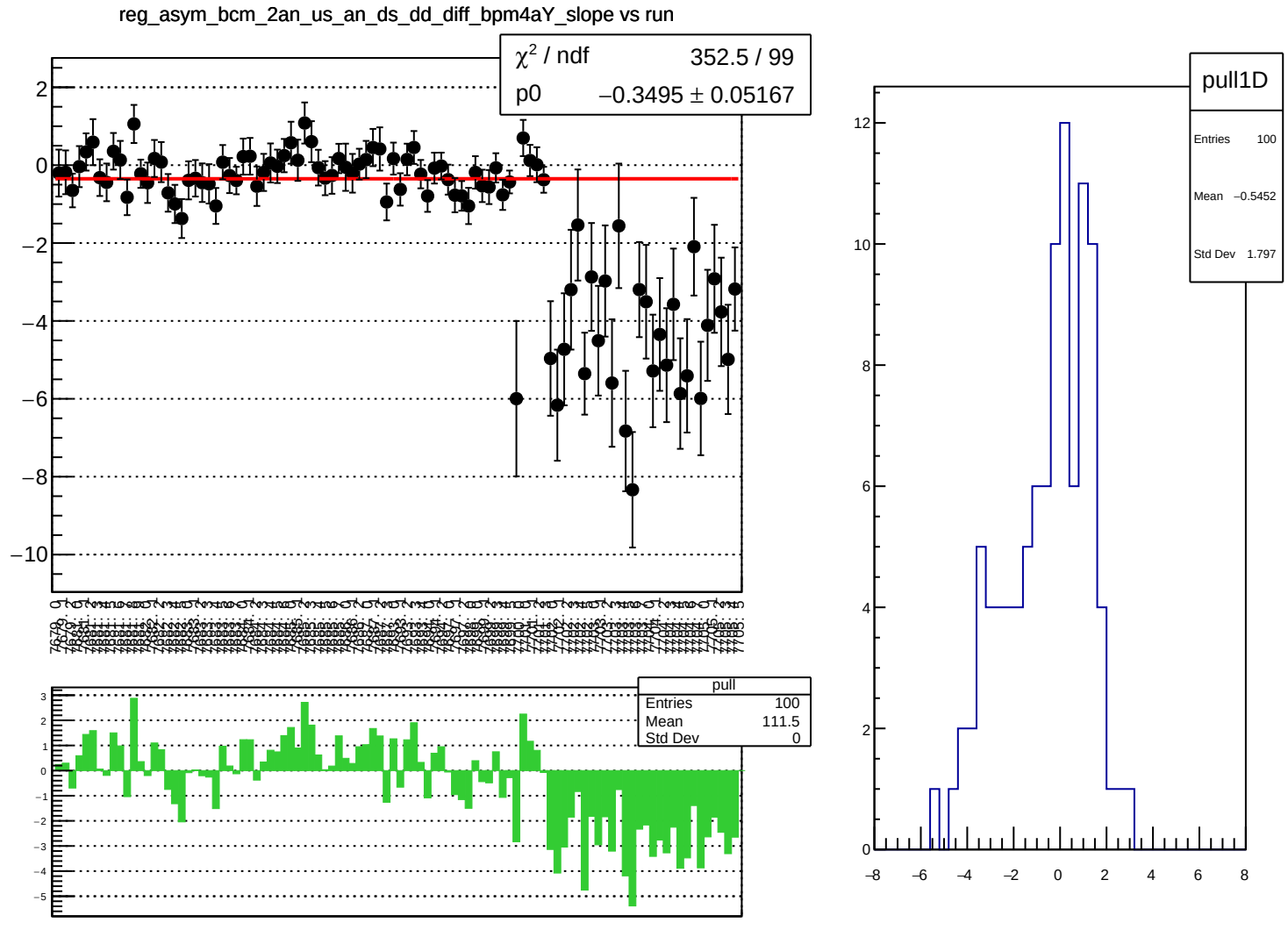

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 346.7 / 99
p0 −0.9909 ± 0.1533
pull
Entries 100
Mean 112.2
Std Dev 0
pull1D
Entries 100
Mean −0.5396
Std Dev 1.782

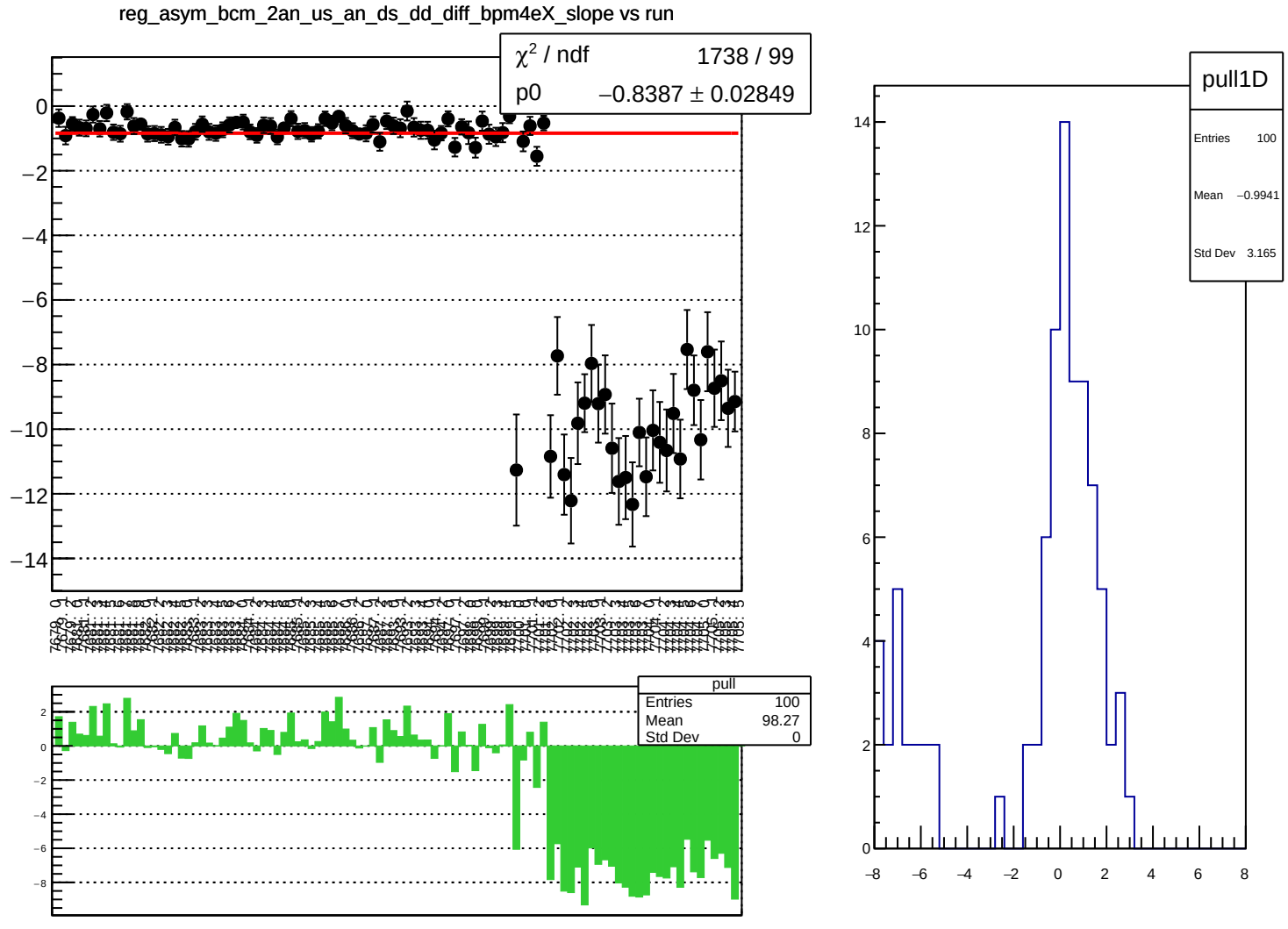

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 1753 / 99
p0 −2.559 ± 0.08458
pull
Entries 100
Mean 98.08
Std Dev 0
pull1D
Entries 100
Mean −0.9977
Std Dev 3.189

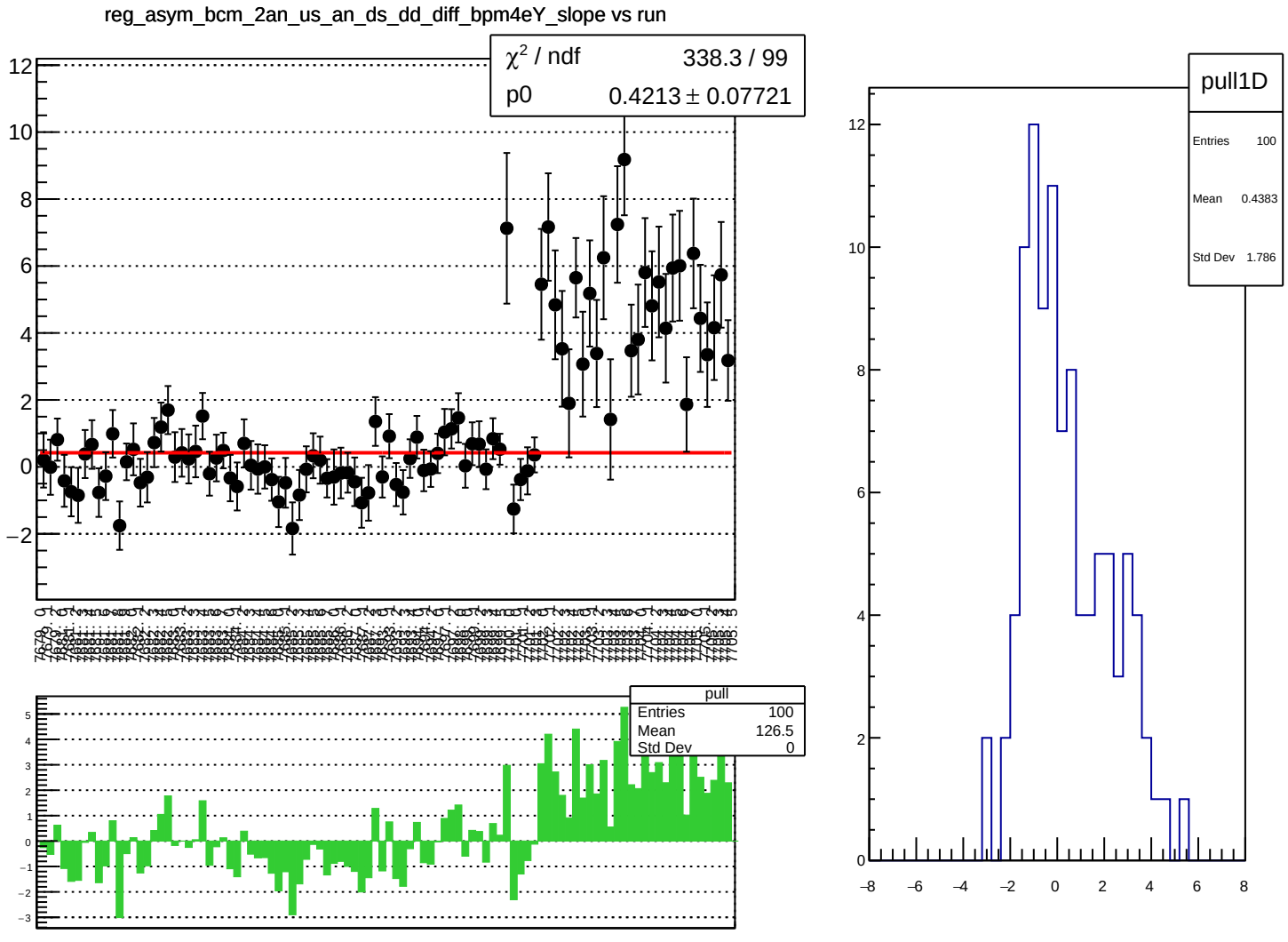

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 332.6 / 99
p0 1.224 ± 0.2291
pull
Entries 100
Mean 127.5
Std Dev 0
pull1D
Entries 100
Mean 0.4322
Std Dev 1.772

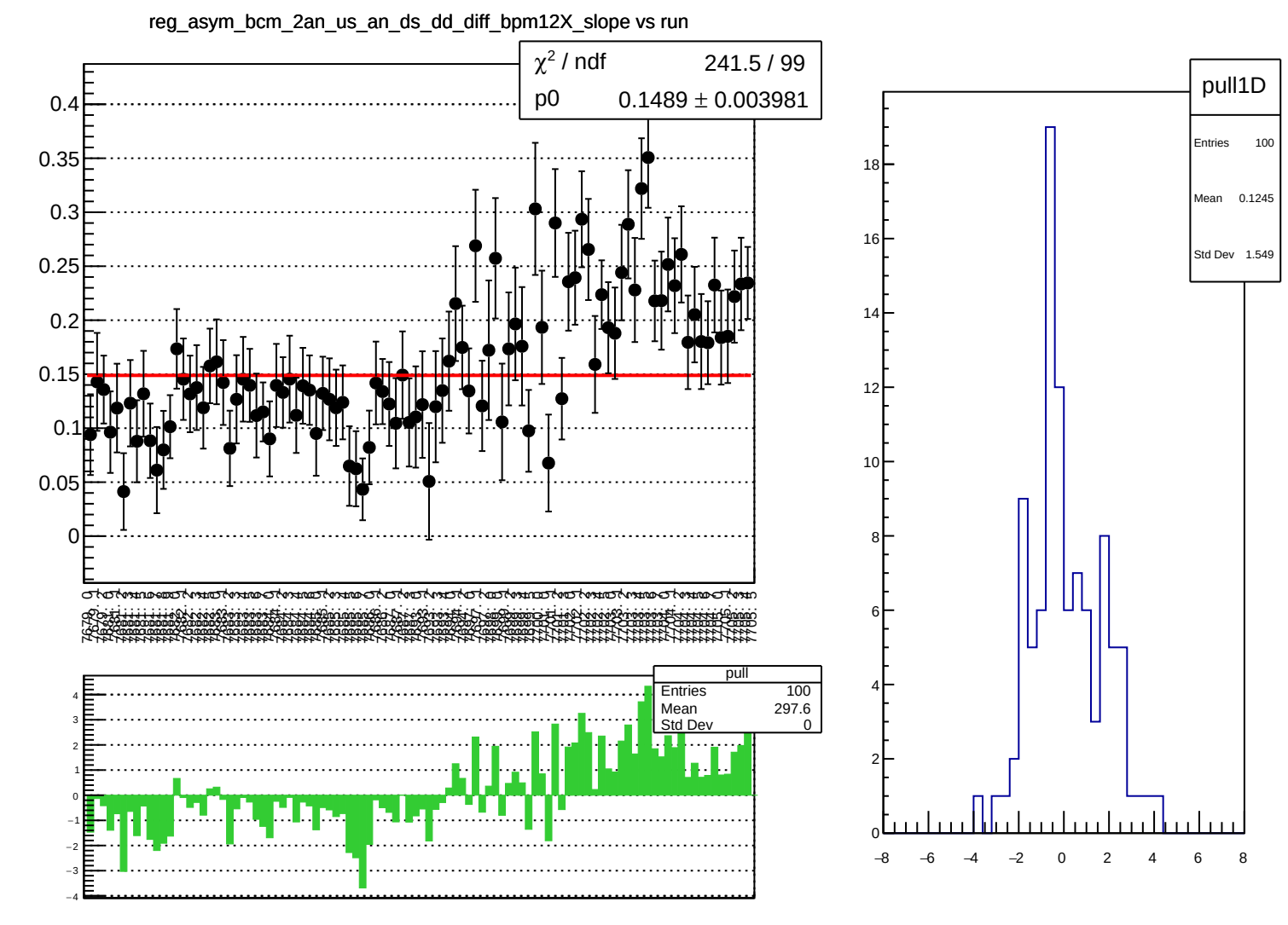

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 242.2 / 99
p0 0.4477 ± 0.01181
pull
Entries 100
Mean 303.5
Std Dev 0
pull1D
Entries 100
Mean 0.1187
Std Dev 1.552

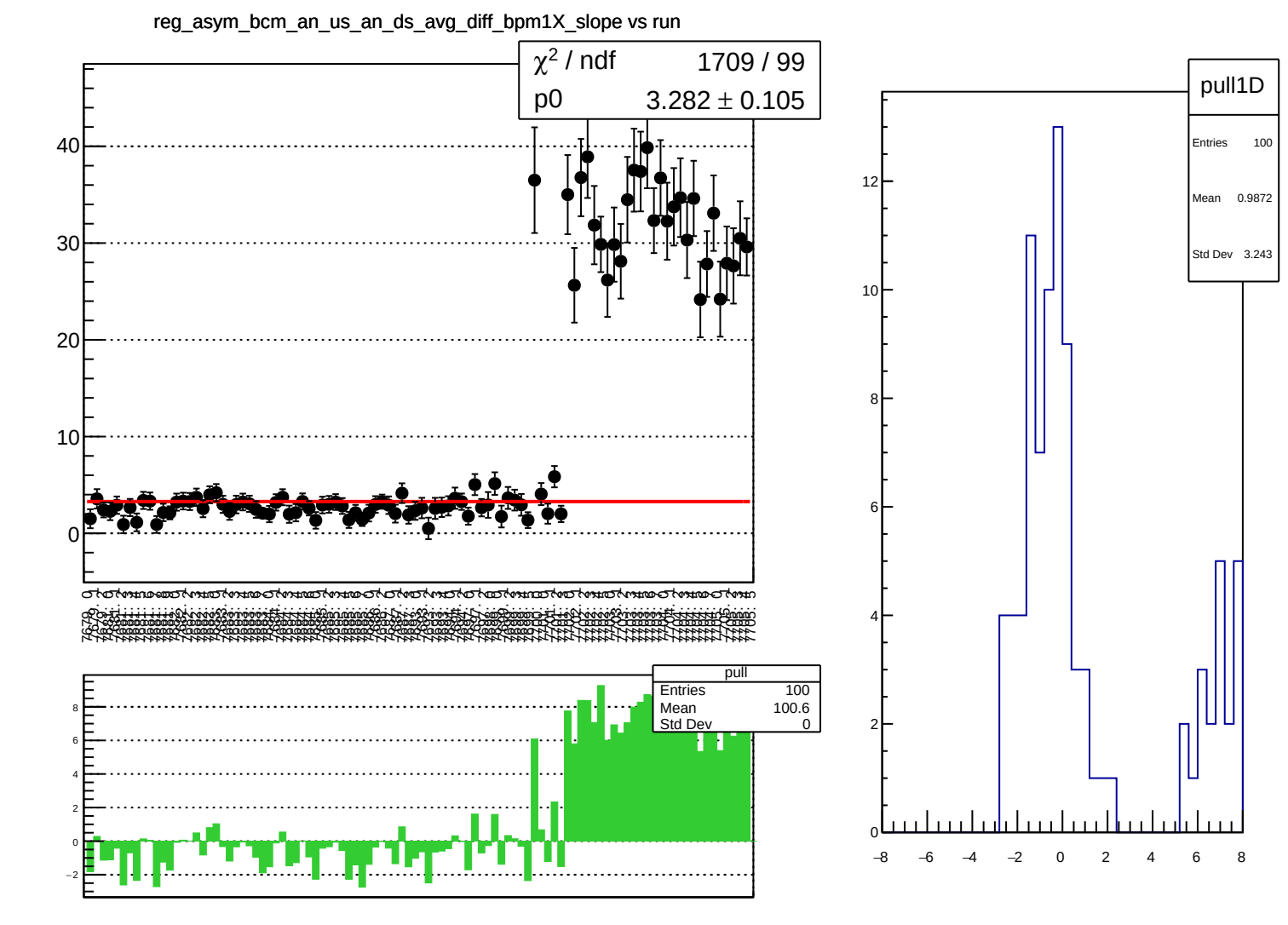

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 1697 / 99
p0 1.06 ± 0.03535
pull
Entries 100
Mean 100.7
Std Dev 0
pull1D
Entries 100
Mean 0.9844
Std Dev 3.218

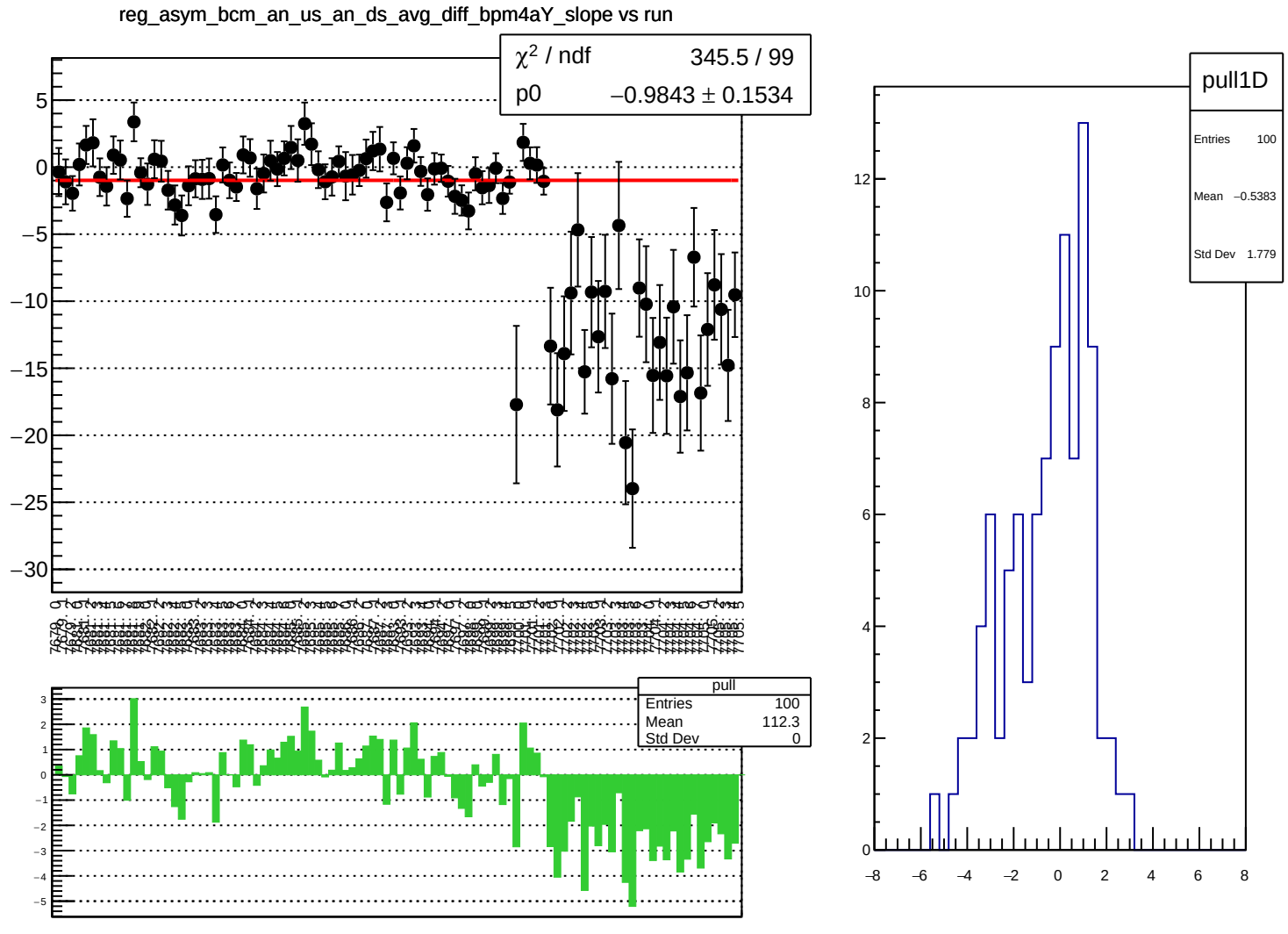

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 352.5 / 99
p0 −0.3495 ± 0.05167
pull
Entries 100
Mean 111.5
Std Dev 0
pull1D
Entries 100
Mean −0.5452
Std Dev 1.797

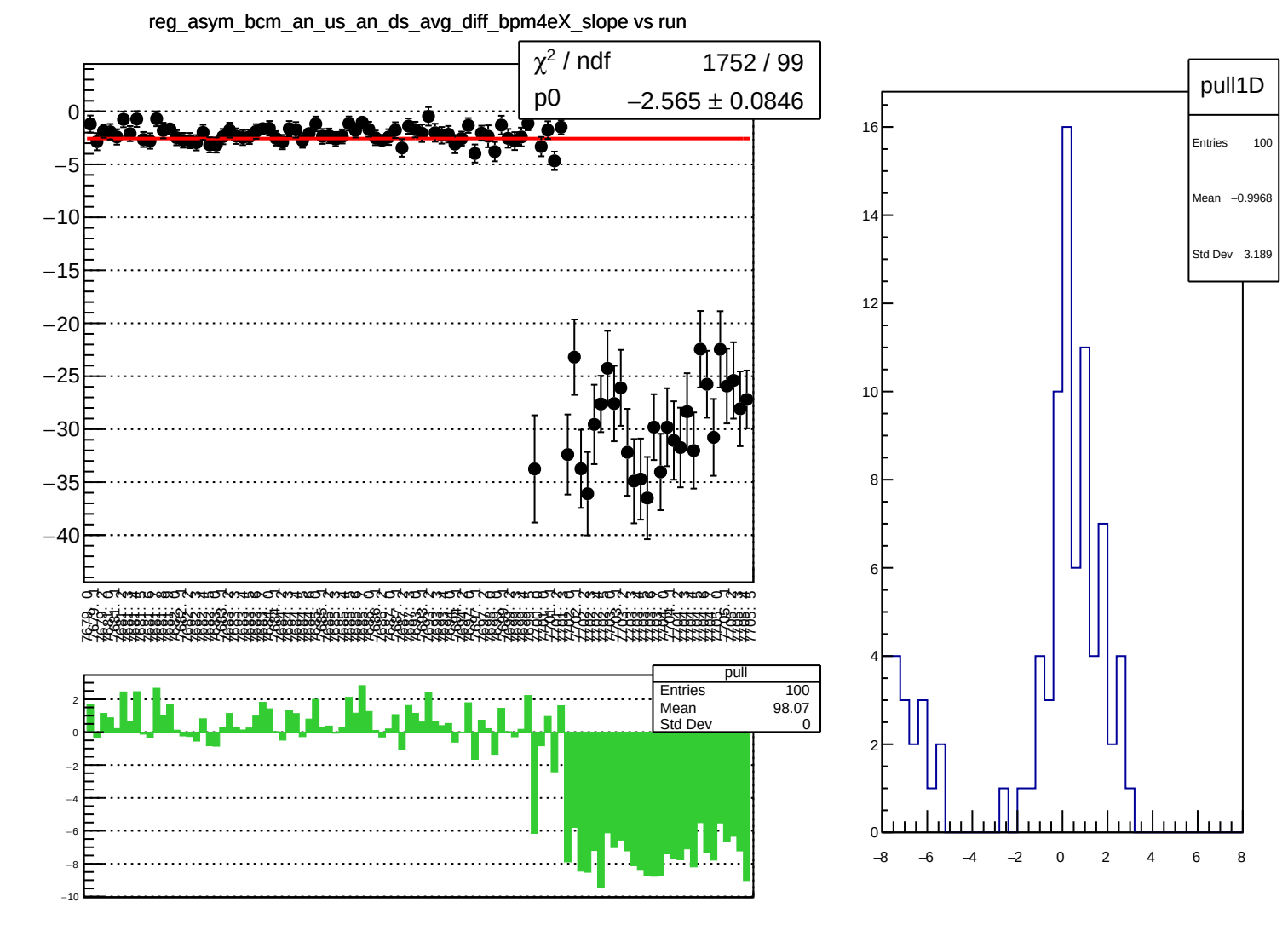

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 1738 / 99
p0 −0.8387 ± 0.02849
pull
Entries 100
Mean 98.27
Std Dev 0
pull1D
Entries 100
Mean −0.9941
Std Dev 3.165

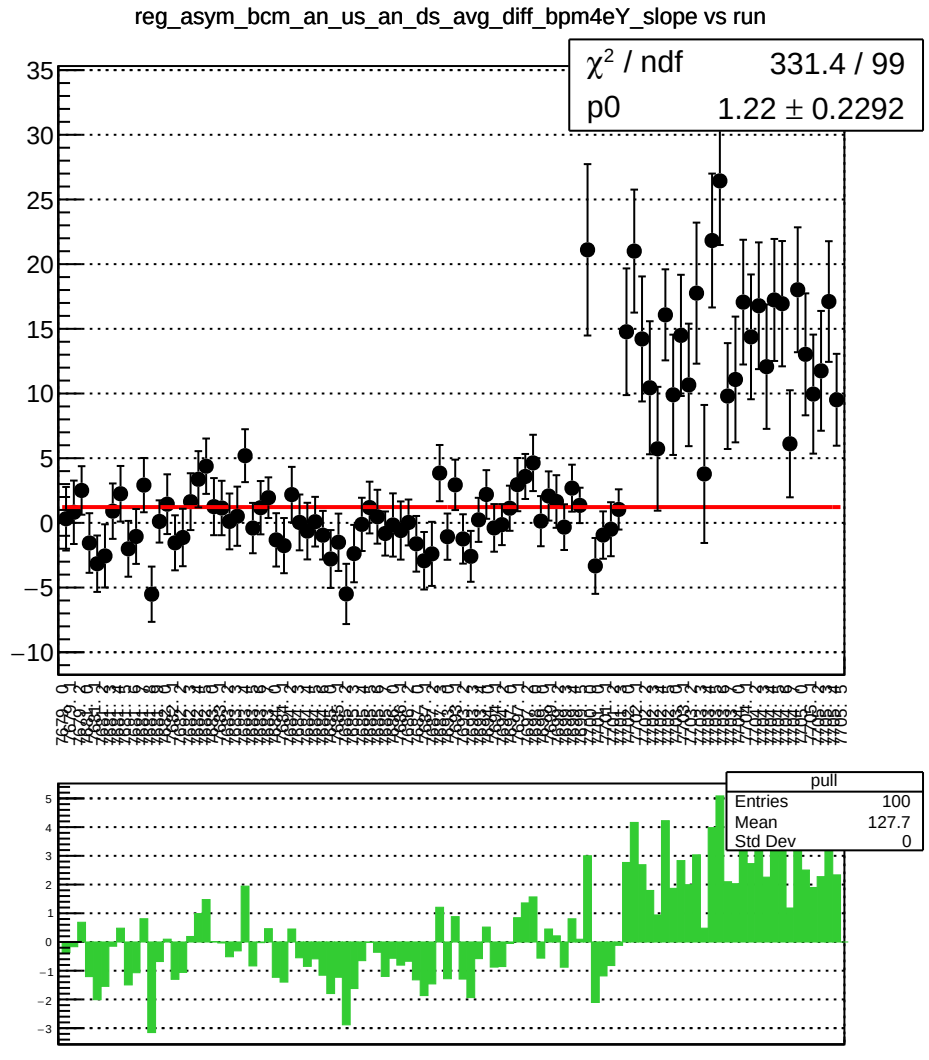

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 338.3 / 99
p0 0.4213 ± 0.07721
pull
Entries 100
Mean 126.5
Std Dev 0
pull1D
Entries 100
Mean 0.4383
Std Dev 1.786

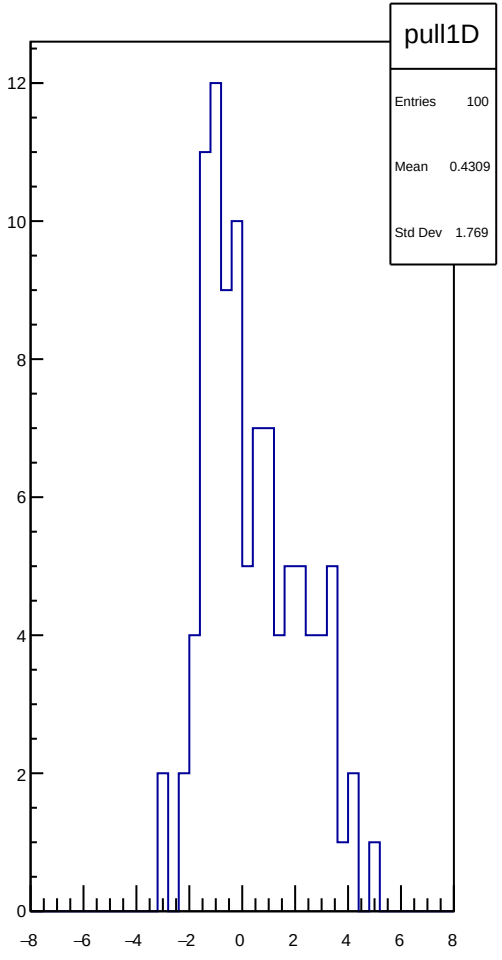

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 241.5 / 99
p0 0.1489 ± 0.003981
pull
Entries 100
Mean 297.6
Std Dev 0
pull1D
Entries 100
Mean 0.1245
Std Dev 1.549

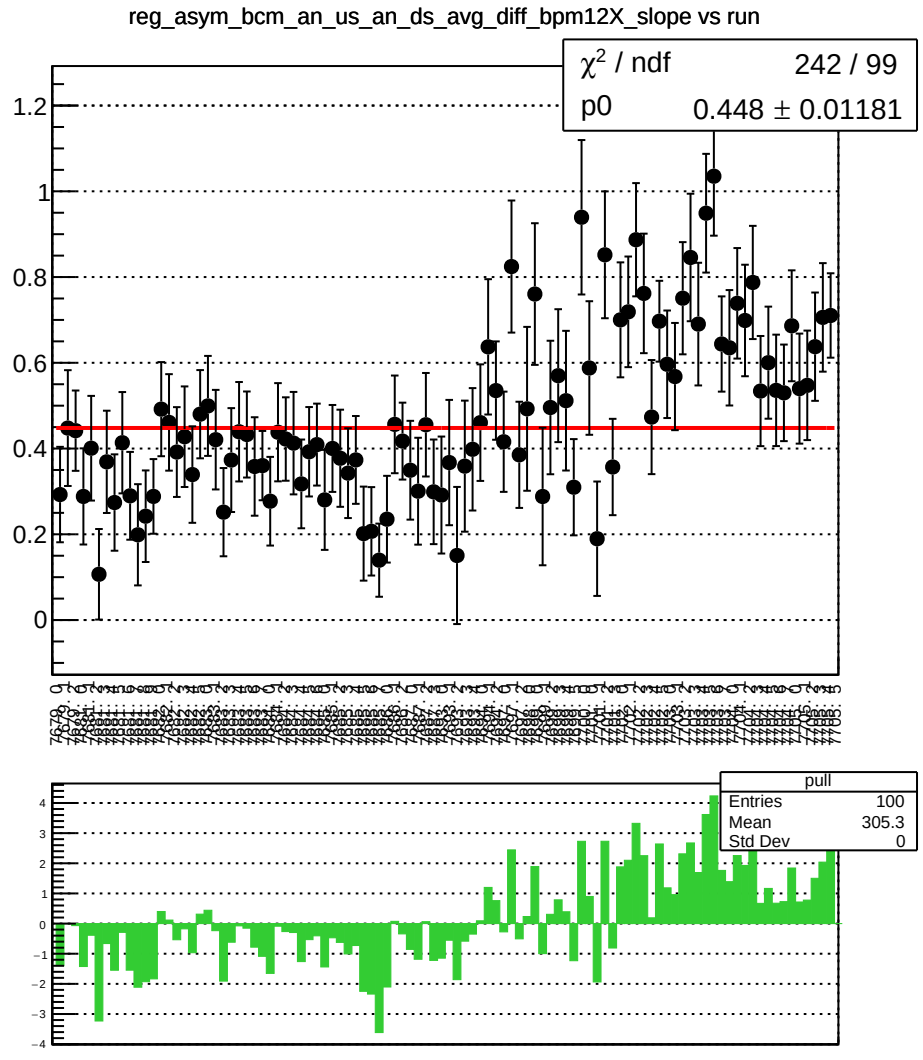

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 1709 / 99
p0 3.282 ± 0.105
pull
Entries 100
Mean 100.6
Std Dev 0
pull1D
Entries 100
Mean 0.9872
Std Dev 3.243

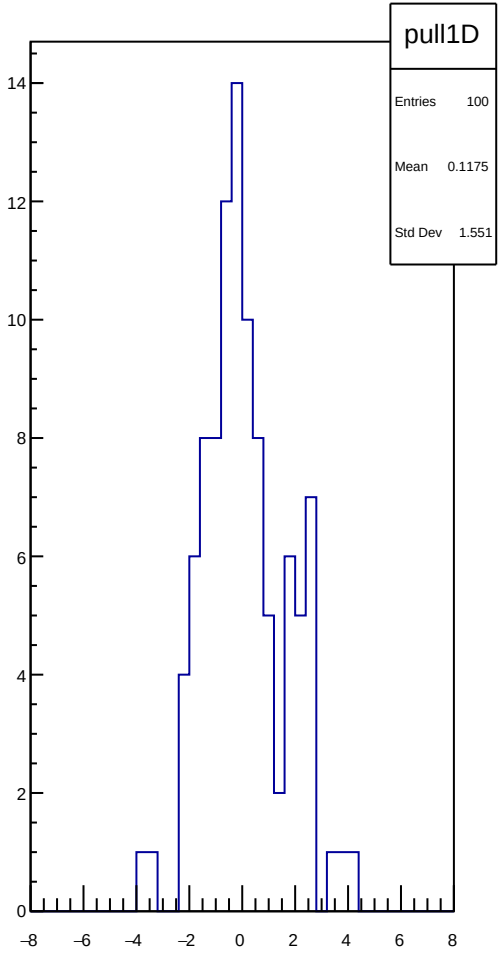

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 345.5 / 99
p0 −0.9843 ± 0.1534
pull
Entries 100
Mean 112.3
Std Dev 0
pull1D
Entries 100
Mean −0.5383
Std Dev 1.779

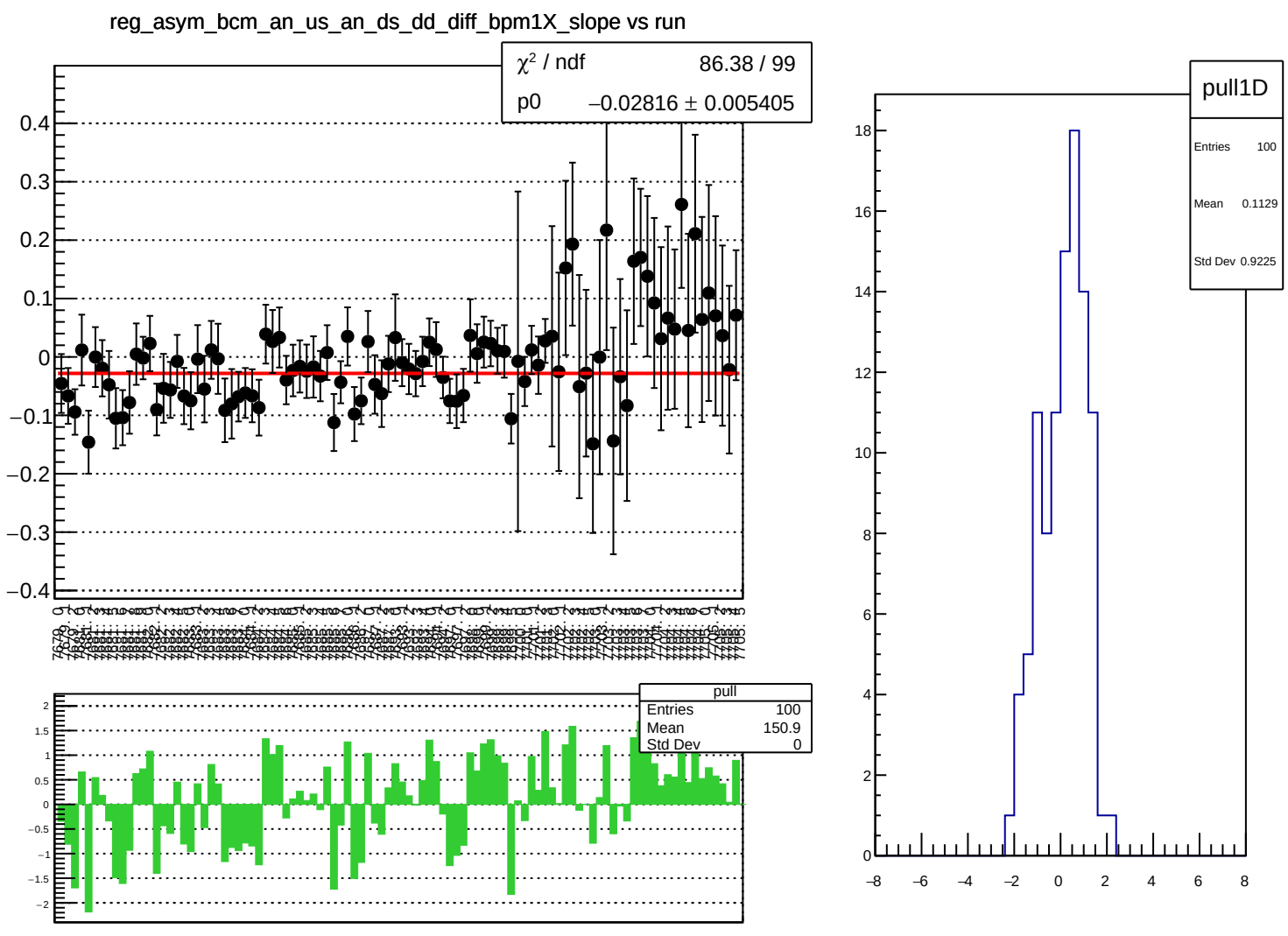

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 1752 / 99
p0 −2.565 ± 0.0846
pull
Entries 100
Mean 98.07
Std Dev 0
pull1D
Entries 100
Mean −0.9968
Std Dev 3.189

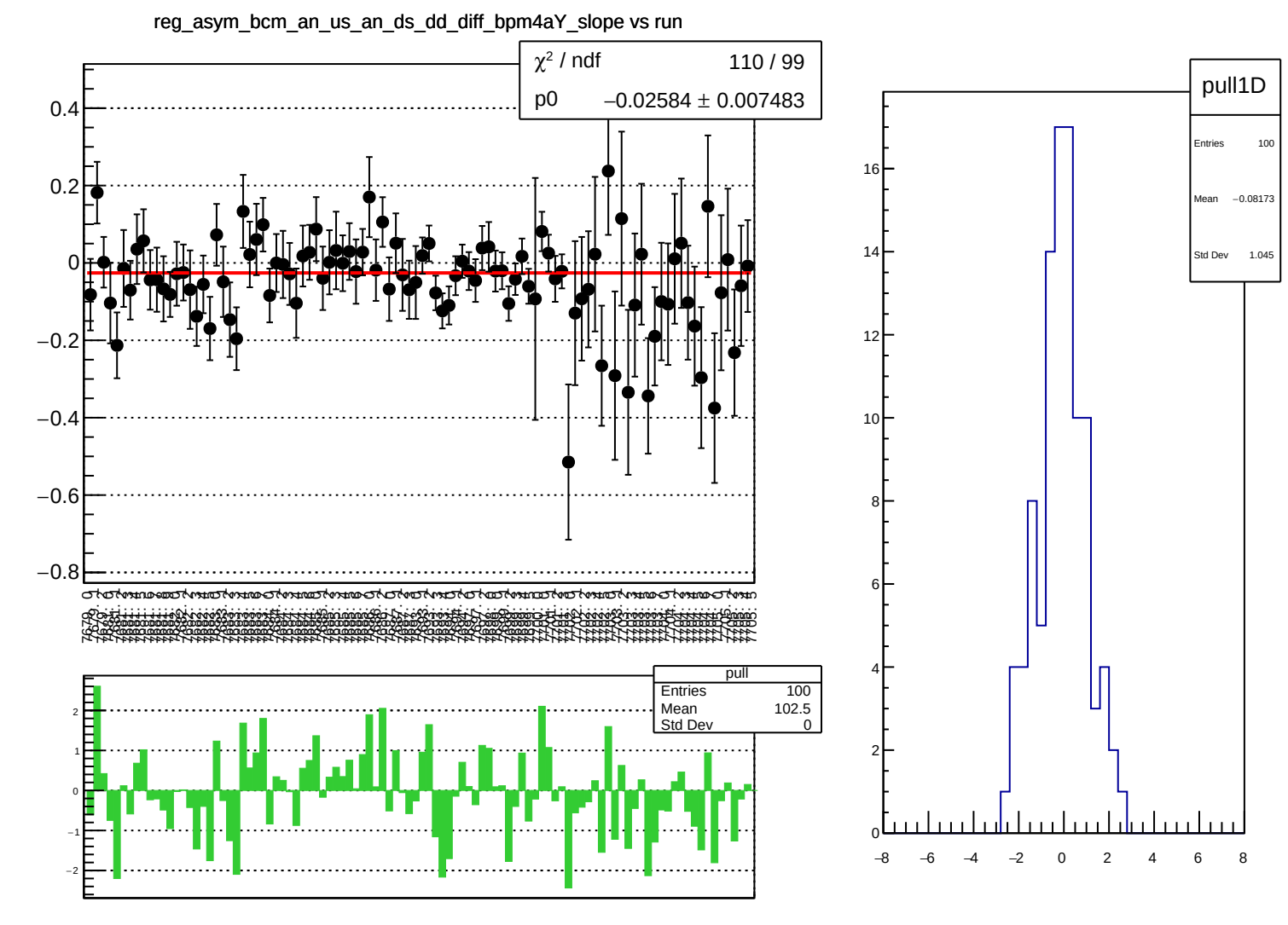

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 331.4 / 99
p0 1.22 ± 0.2292
pull
Entries 100
Mean 127.7
Std Dev 0

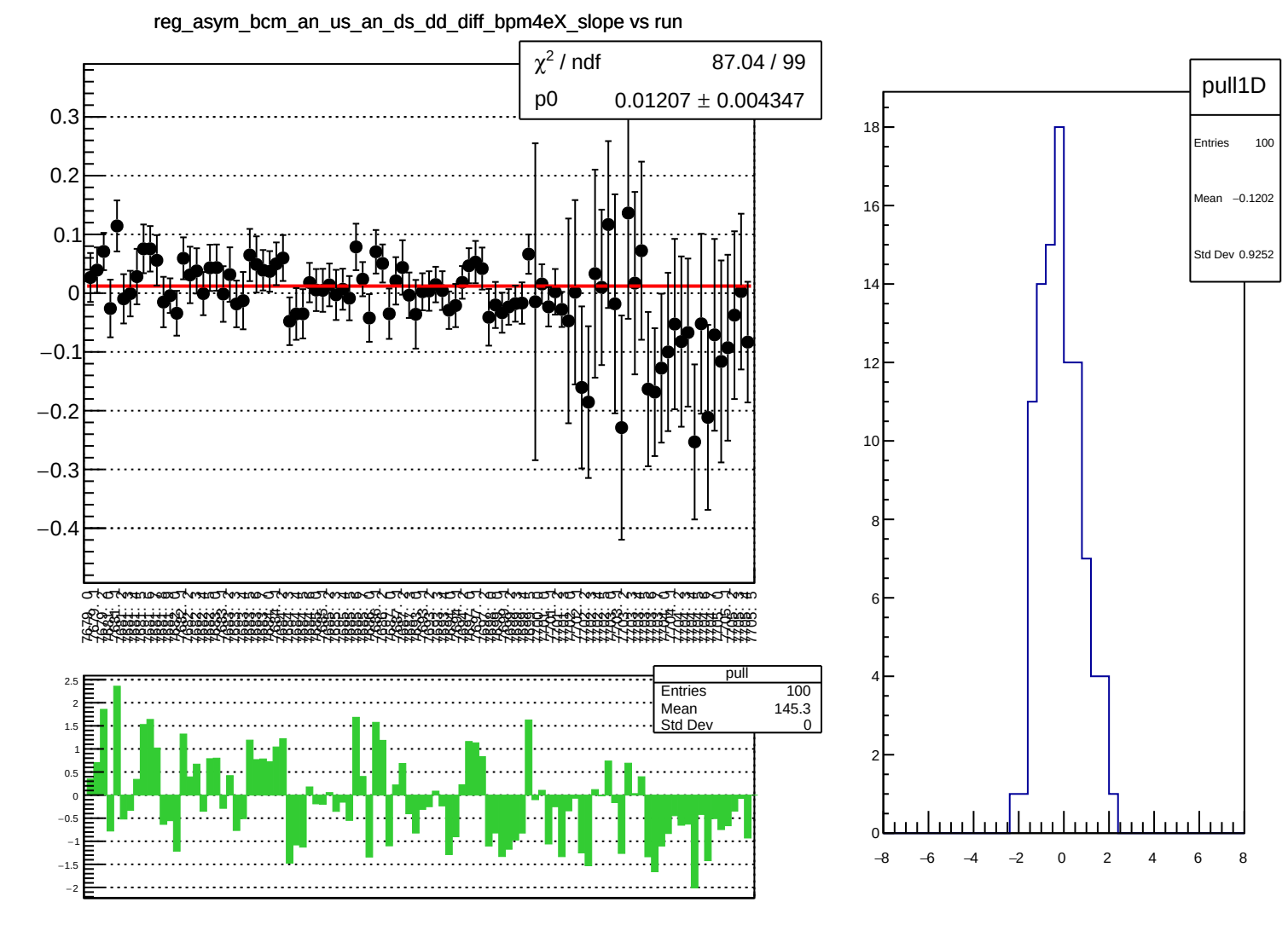

pull1D
Entries 100
Mean 0.4309
Std Dev 1.769

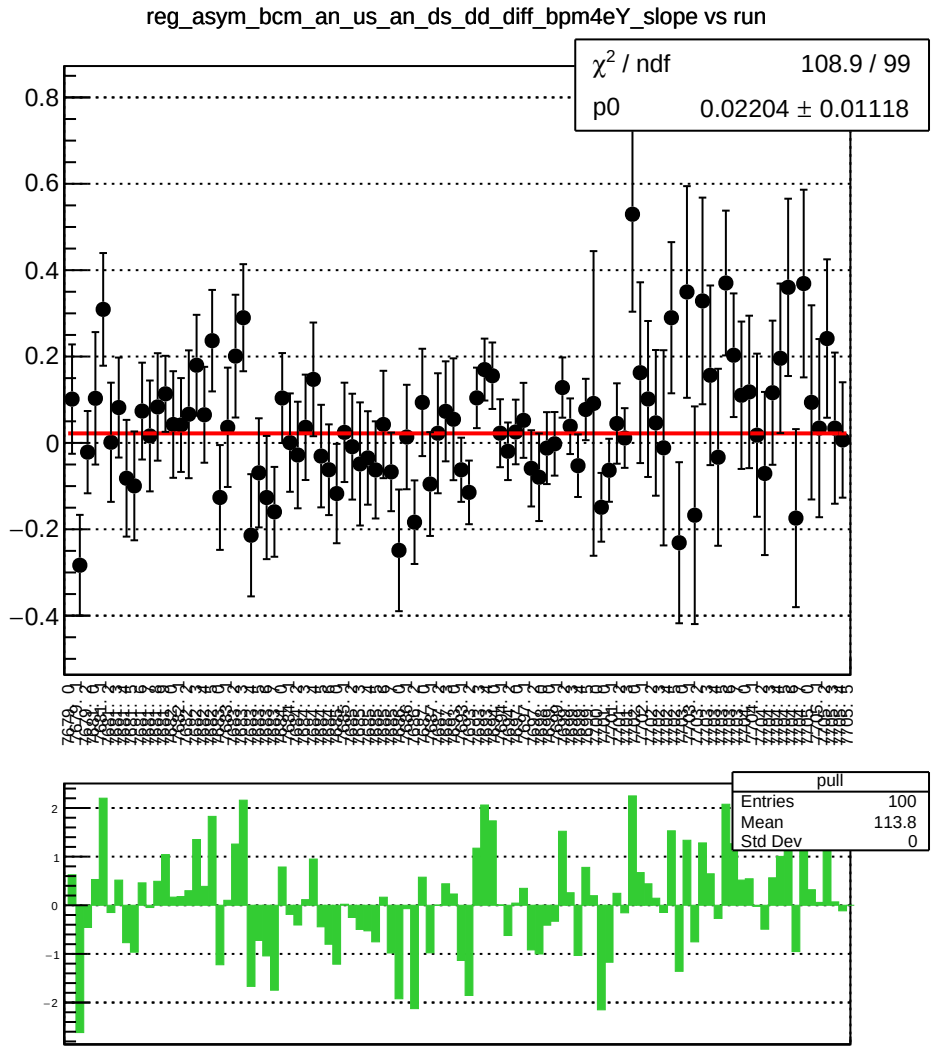

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 242 / 99
p0 0.448 ± 0.01181
pull
Entries 100
Mean 305.3
Std Dev 0

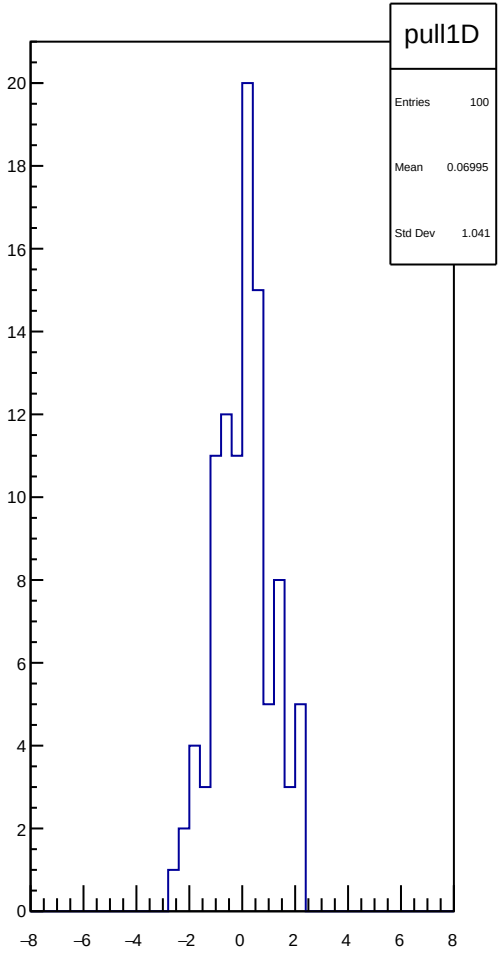

pull1D
Entries 100
Mean 0.1175
Std Dev 1.551

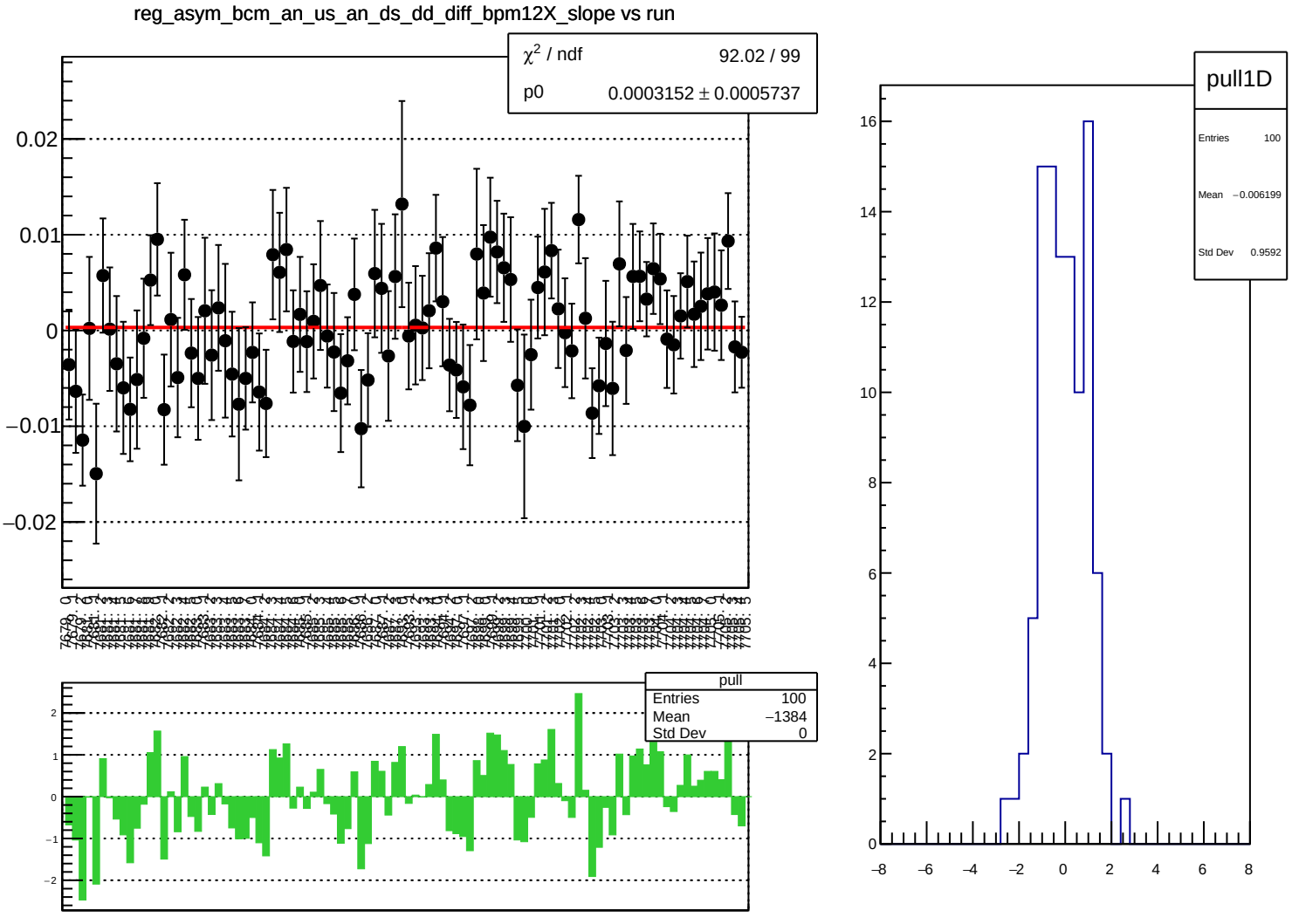

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 86.38 / 99
p0 −0.02816 ± 0.005405
pull
Entries 100
Mean 150.9
Std Dev 0
pull1D
Entries 100
Mean 0.1129
Std Dev 0.9225

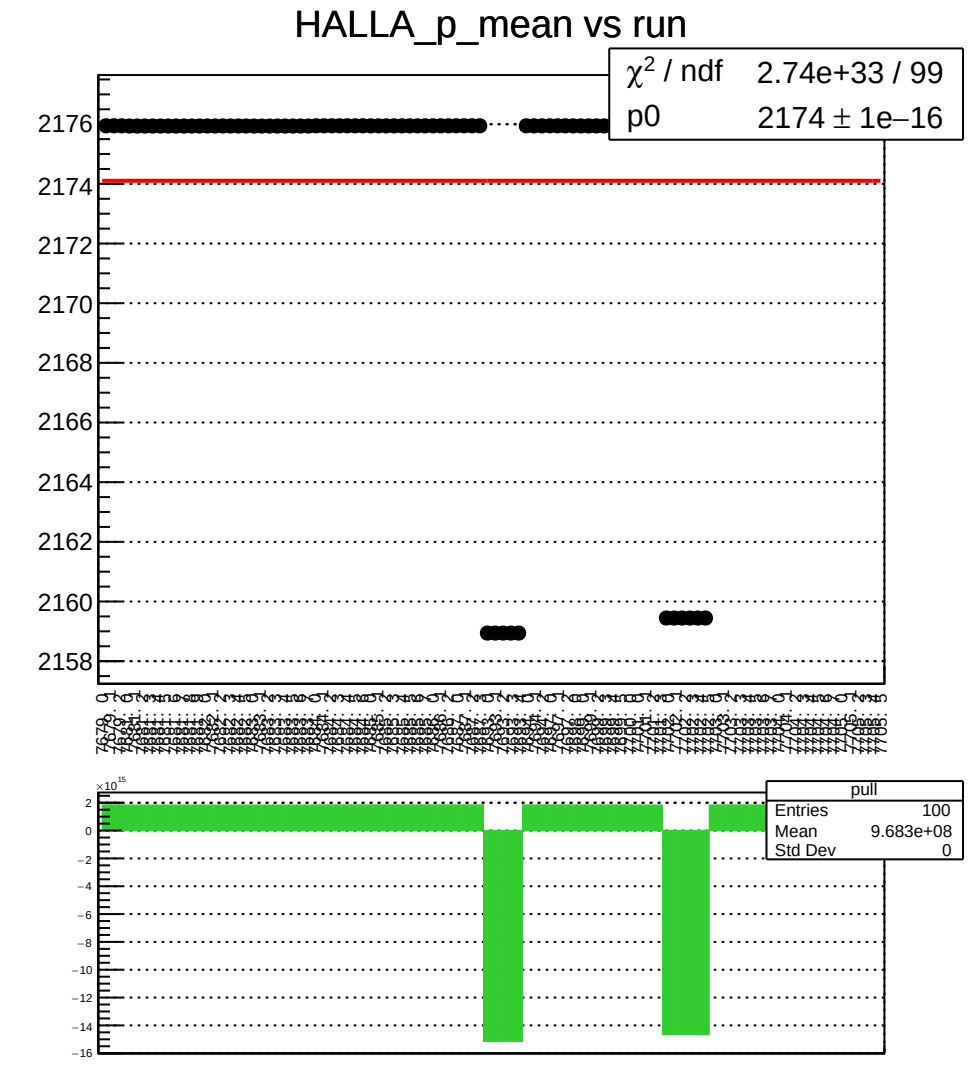

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 110 / 99
p0 −0.02584 ± 0.007483
pull
Entries 100
Mean 102.5
Std Dev 0
pull1D
Entries 100
Mean −0.08173
Std Dev 1.045

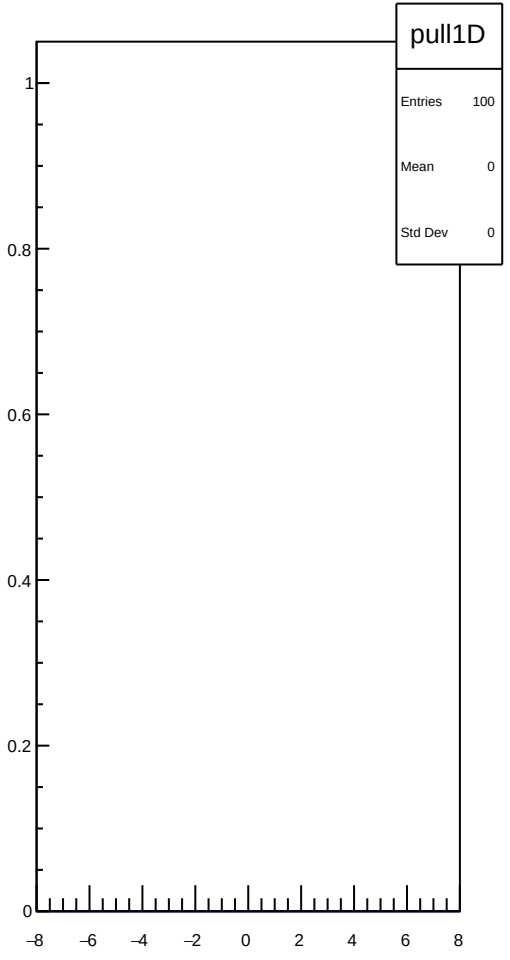

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 87.04 / 99
p0 0.01207 ± 0.004347
pull
Entries 100
Mean 145.3
Std Dev 0
pull1D
Entries 100
Mean −0.1202
Std Dev 0.9252

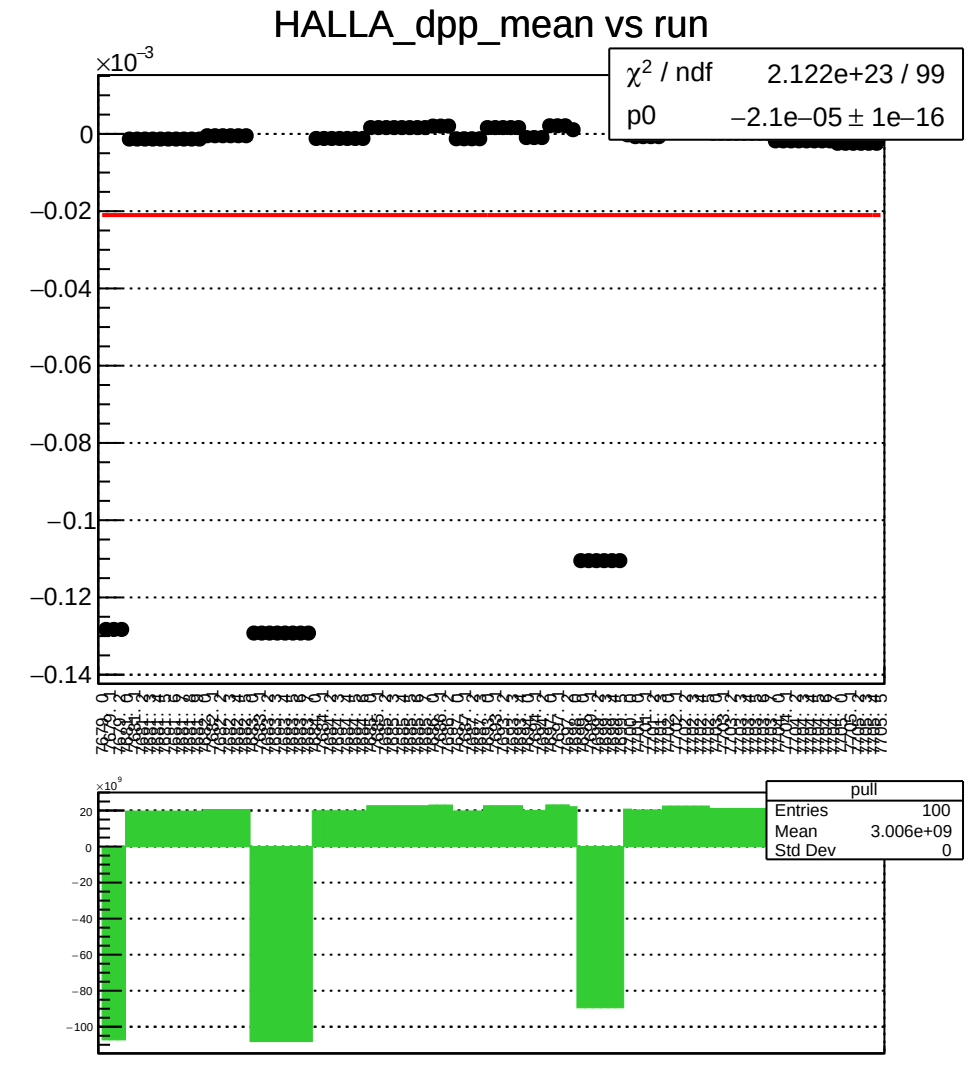

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 108.9 / 99
p0 0.02204 ± 0.01118
pull
Entries 100
Mean 113.8
Std Dev 0

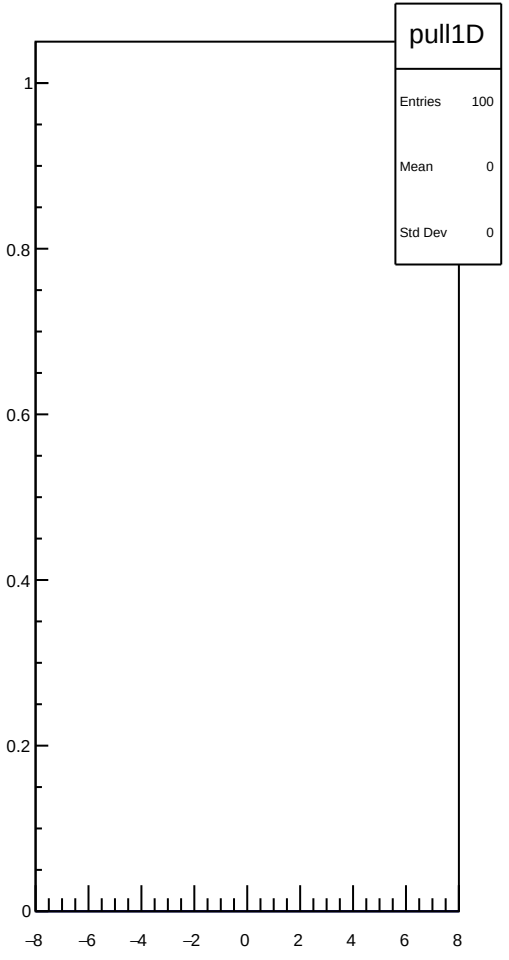

pull1D
Entries 100
Mean 0.06995
Std Dev 1.041

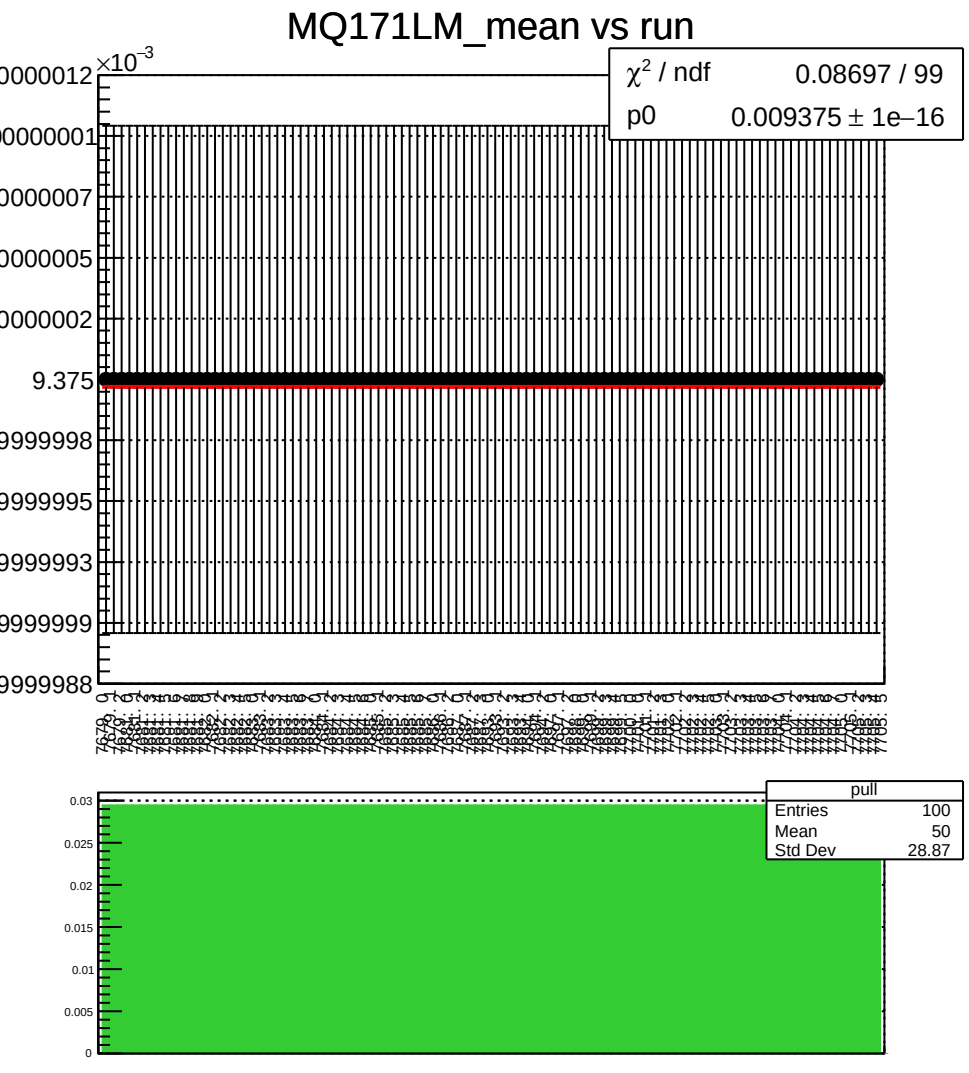

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 92.02 / 99
p0 0.0003152 ± 0.0005737
0.02
0.01
0
−0.01
−0.02
pull
Entries 100
Mean −1384
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 100
Mean −0.006199
Std Dev 0.9592
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

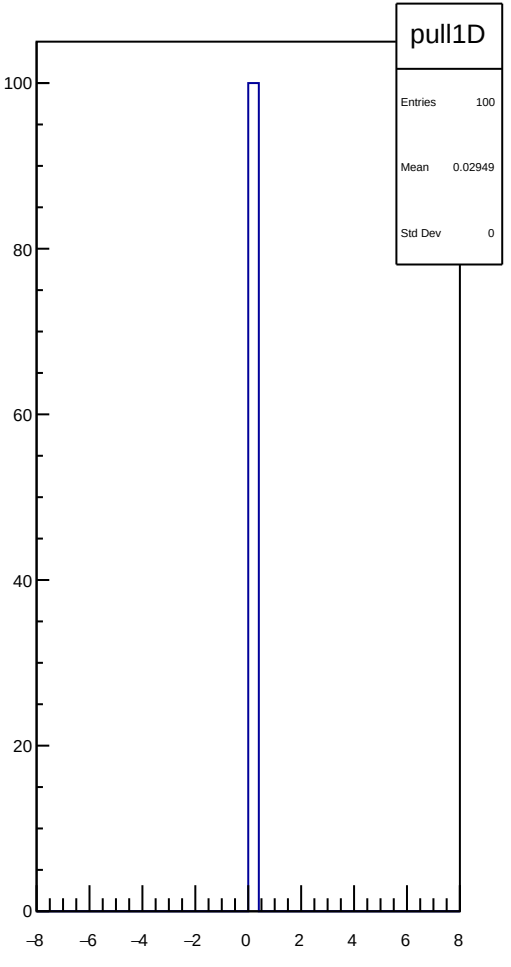

HALLA_p_mean vs run
χ² / ndf 2.74e+33 / 99
p0 2174 ± 1e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 100
Mean 9.683e+08
Std Dev 0
×10¹⁵
2
0
−2
−4
−6
−8
−10
−12
−14
−16

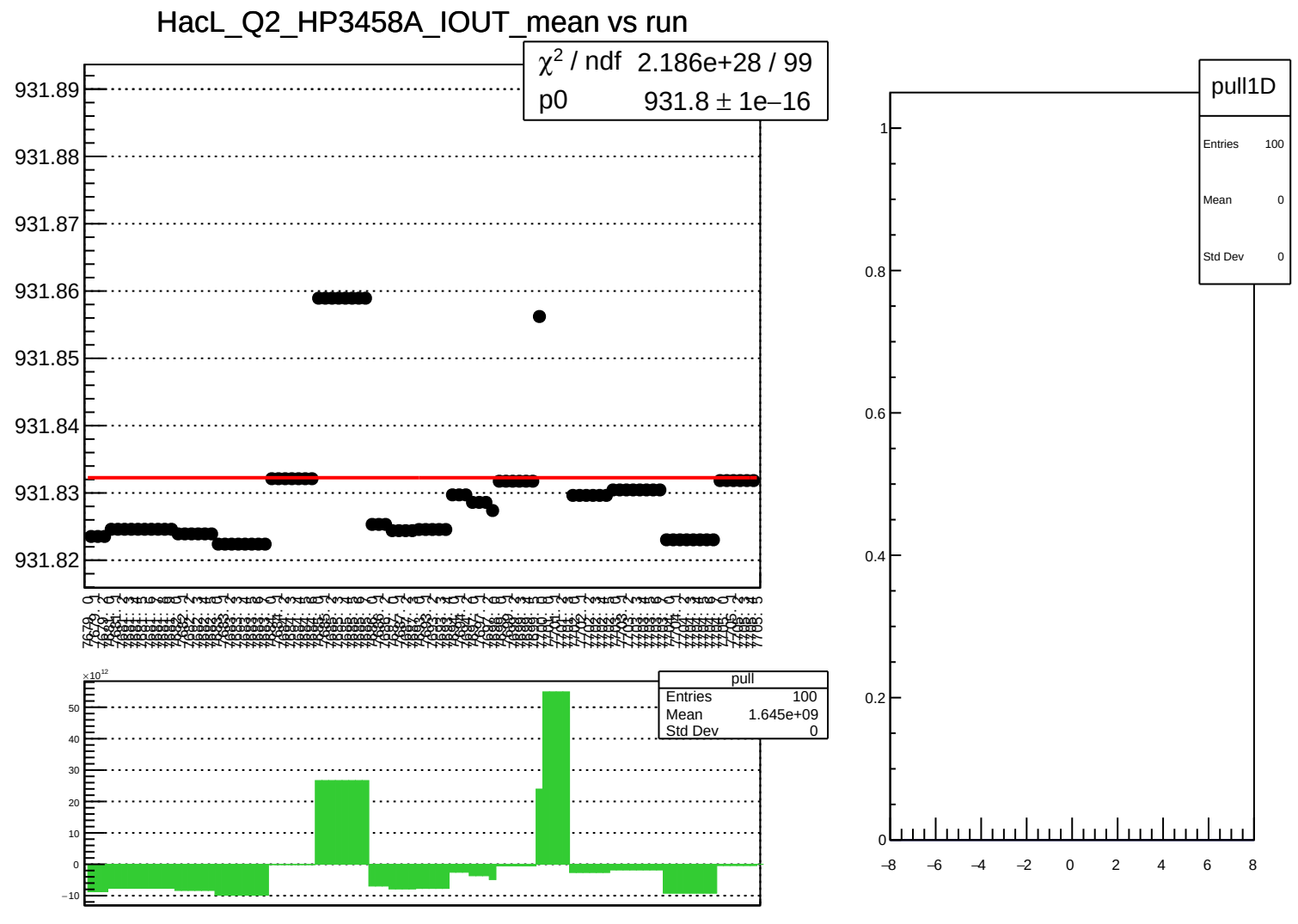

pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

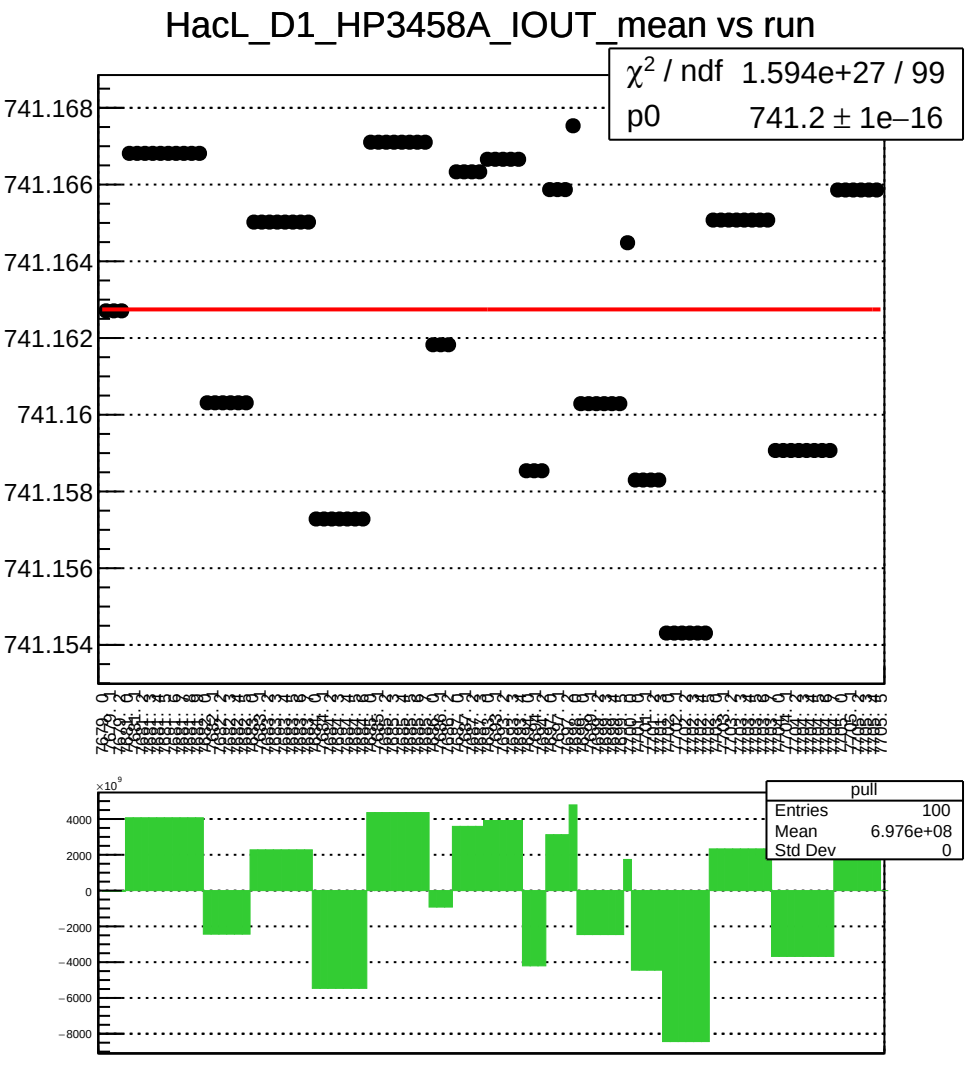

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 2.122e+23 / 99
p0 −2.1e−05 ± 1e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
×10⁹
20
0
−20
−40
−60
−80
−100
pull
Entries 100
Mean 3.006e+09
Std Dev 0

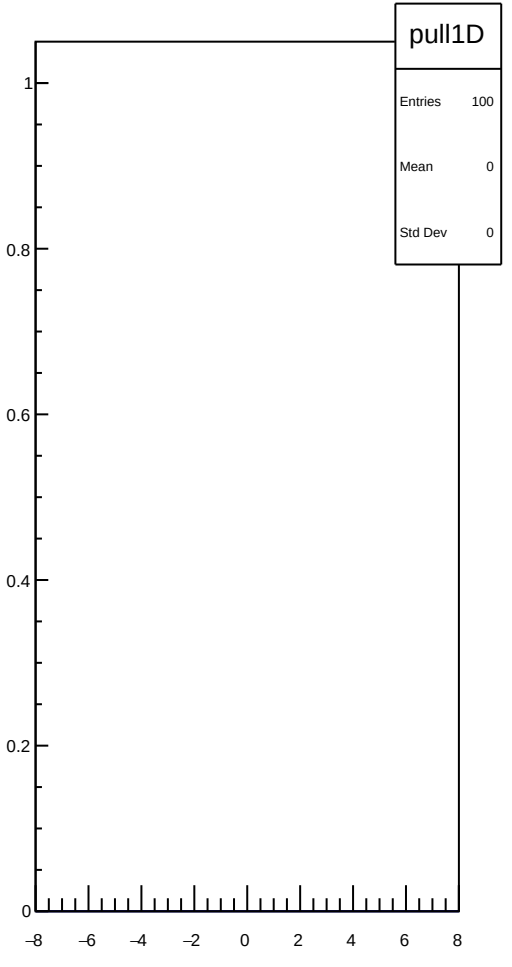

pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

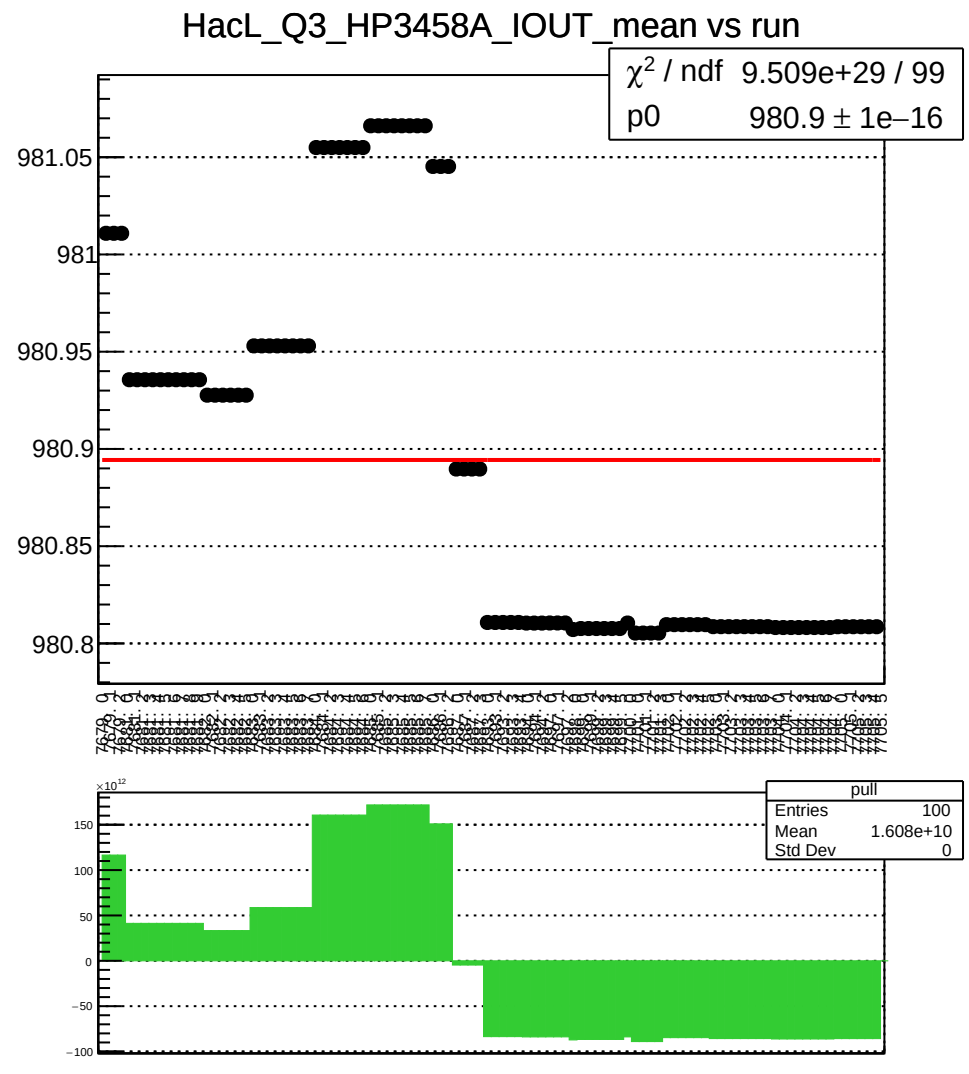

MQ171LM_mean vs run
χ² / ndf 0.08697 / 99
p0 0.009375 ± 1e–16
×10⁻³
pull
Entries 100
Mean 50
Std Dev 28.87

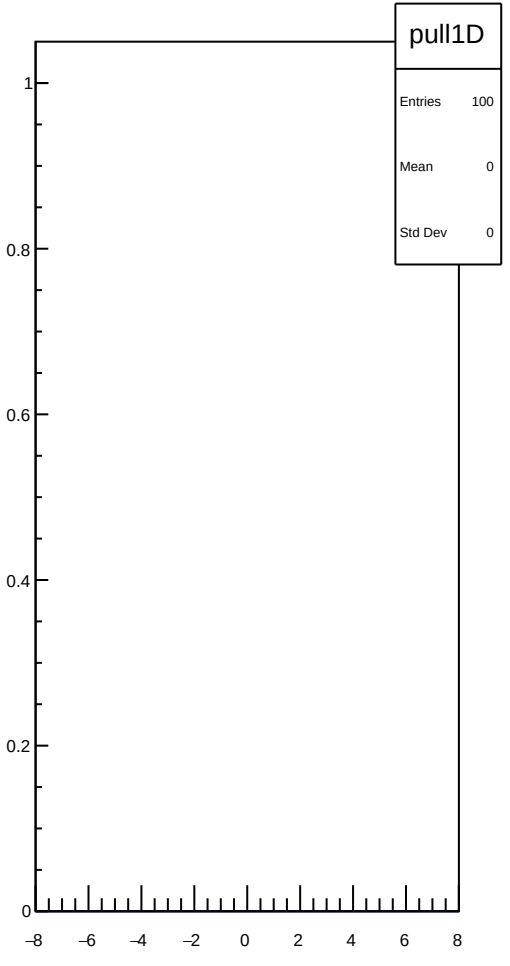

pull1D
Entries 100
Mean 0.02949
Std Dev 0

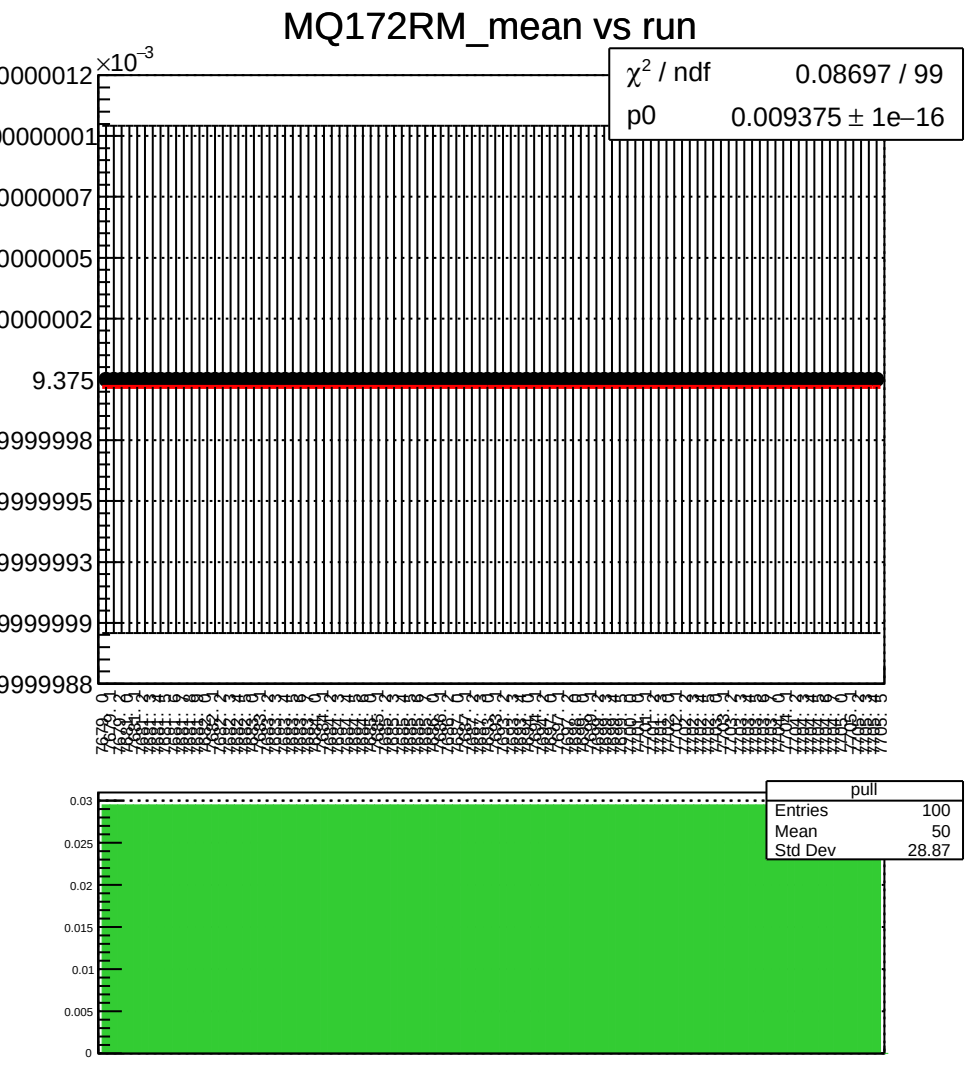

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 2.186e+28 / 99
p0 931.8 ± 1e−16
931.89
931.88
931.87
931.86
931.85
931.84
931.83
931.82
pull
Entries 100
Mean 1.645e+09
Std Dev 0
×10¹²
50
40
30
20
10
0
−10
pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

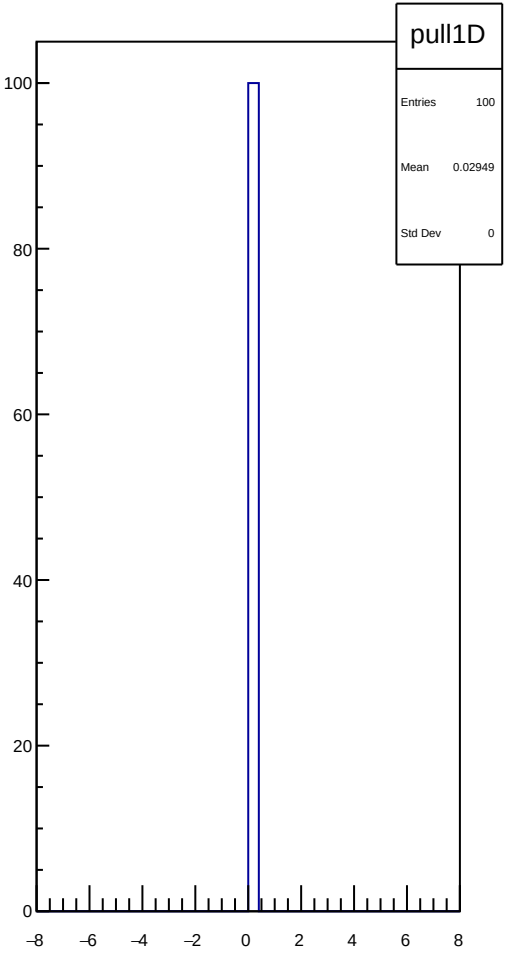

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.594e+27 / 99
p0 741.2 ± 1e−16
741.168
741.166
741.164
741.162
741.16
741.158
741.156
741.154
×10⁹
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 100
Mean 6.976e+08
Std Dev 0

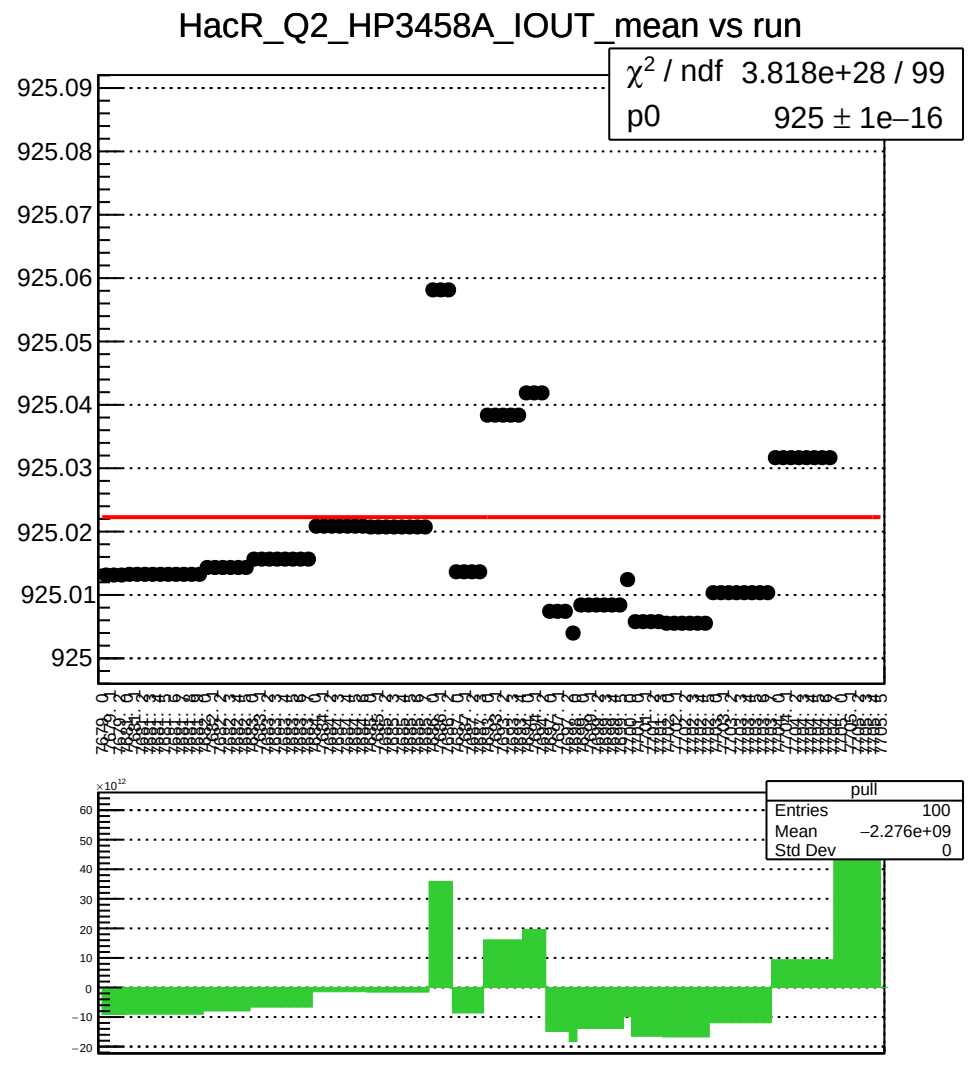

pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

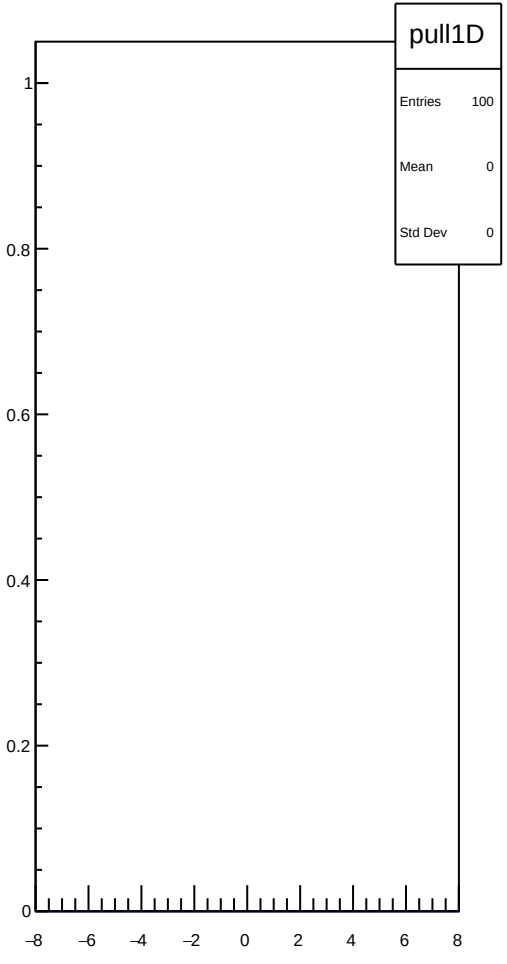

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 9.509e+29 / 99
p0 980.9 ± 1e−16
981.05
981
980.95
980.9
980.85
980.8
pull
Entries 100
Mean 1.608e+10
Std Dev 0
×10¹²
150
100
50
0
−50
−100

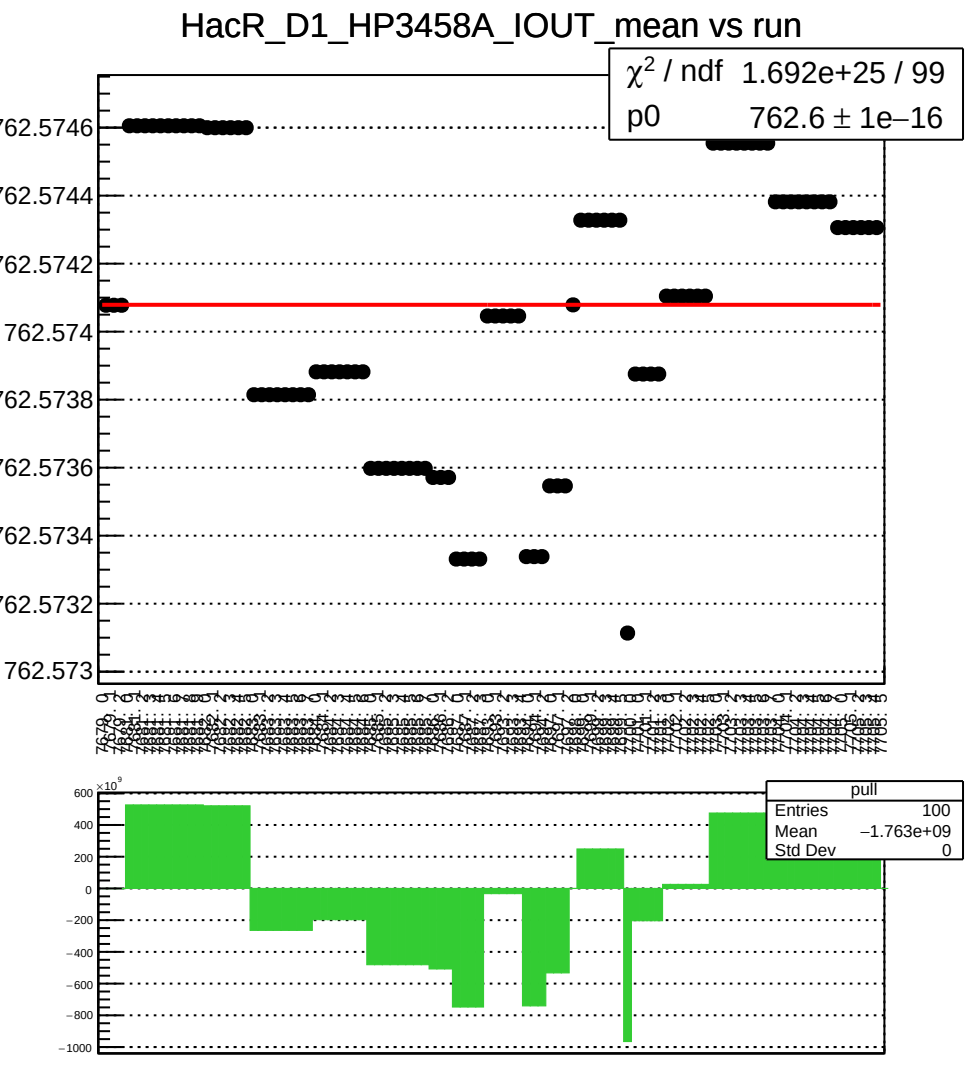

pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

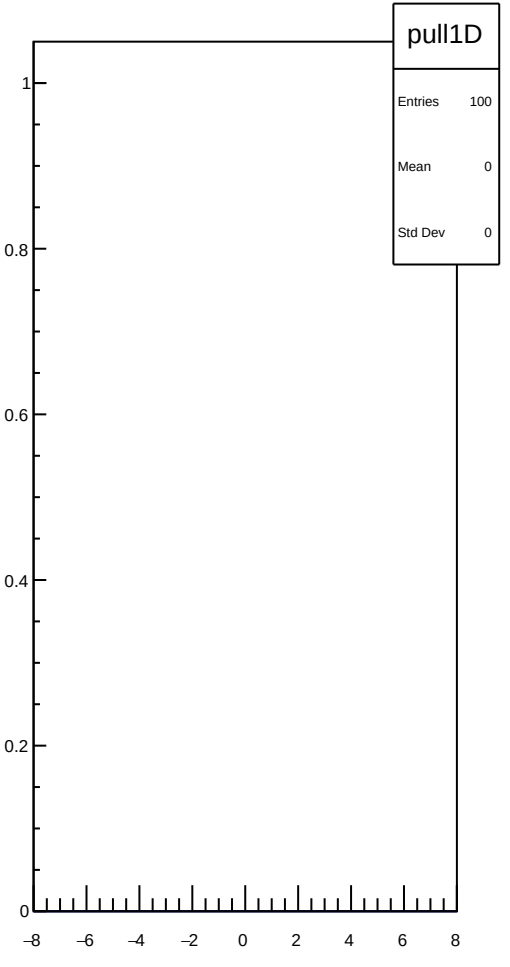

MQ172RM_mean vs run
χ² / ndf 0.08697 / 99
p0 0.009375 ± 1e−16
×10⁻³
pull
Entries 100
Mean 50
Std Dev 28.87

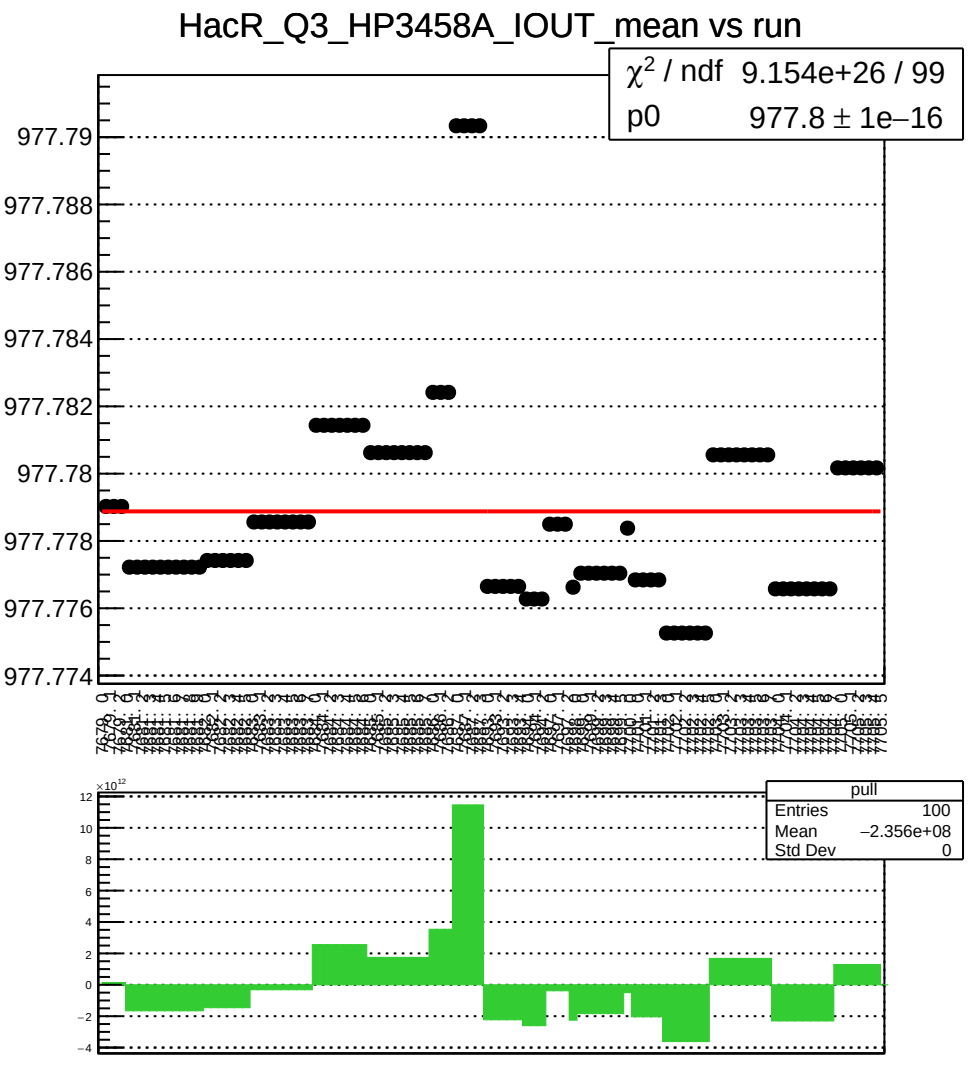

pull1D
Entries 100
Mean 0.02949
Std Dev 0

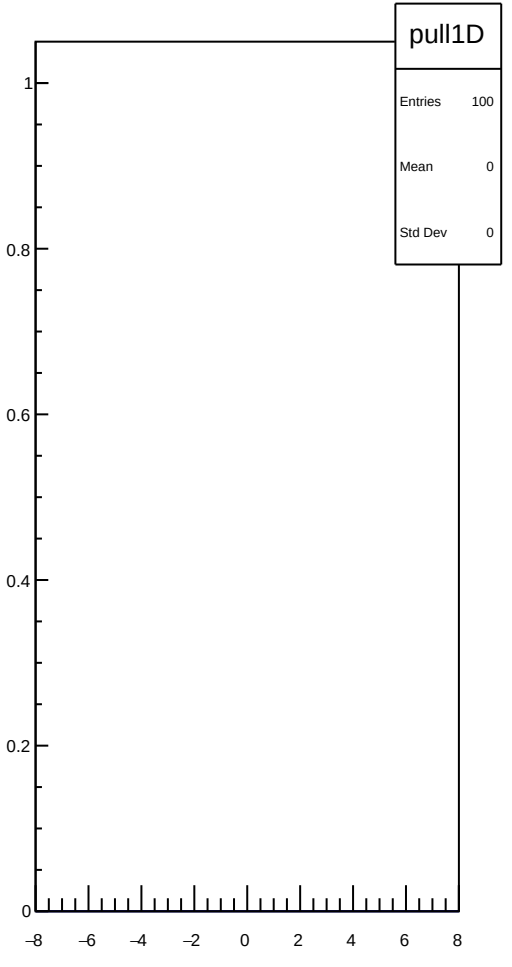

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 3.818e+28 / 99
p0 925 ± 1e−16
925.09
925.08
925.07
925.06
925.05
925.04
925.03
925.02
925.01
925
pull
Entries 100
Mean −2.276e+09
Std Dev 0
×10¹²
60
50
40
30
20
10
0
−10
−20

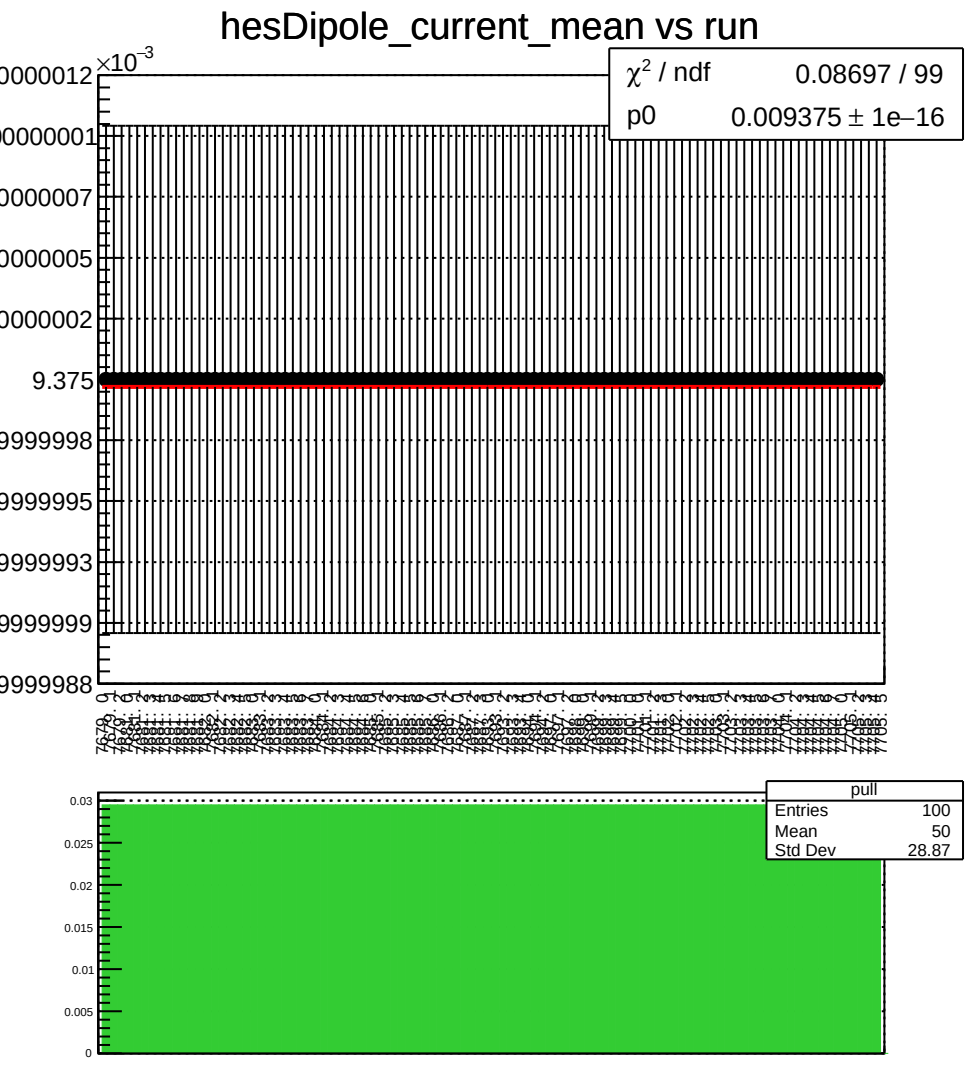

pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

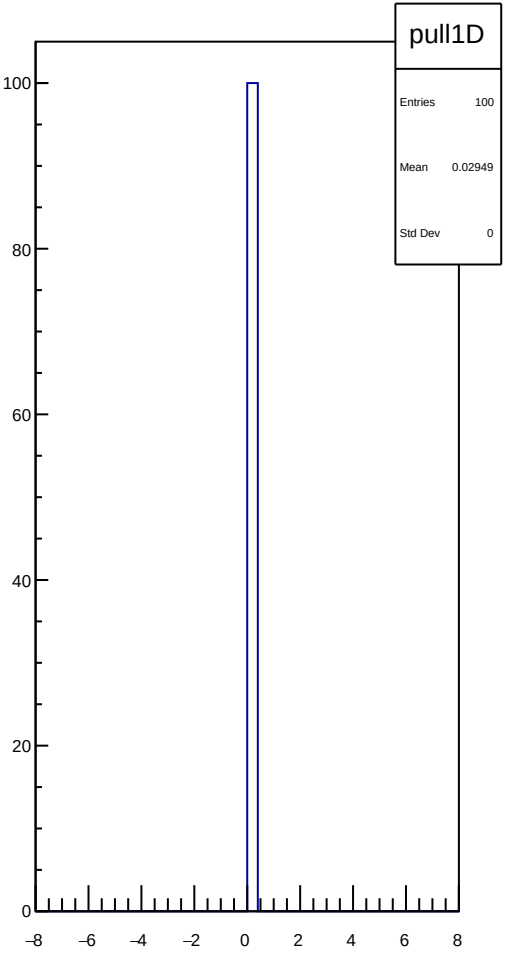

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.692e+25 / 99
p0 762.6 ± 1e−16
762.5746
762.5744
762.5742
762.574
762.5738
762.5736
762.5734
762.5732
762.573
pull
Entries 100
Mean −1.763e+09
Std Dev 0
×10⁹
600
400
200
0
−200
−400
−600
−800
−1000

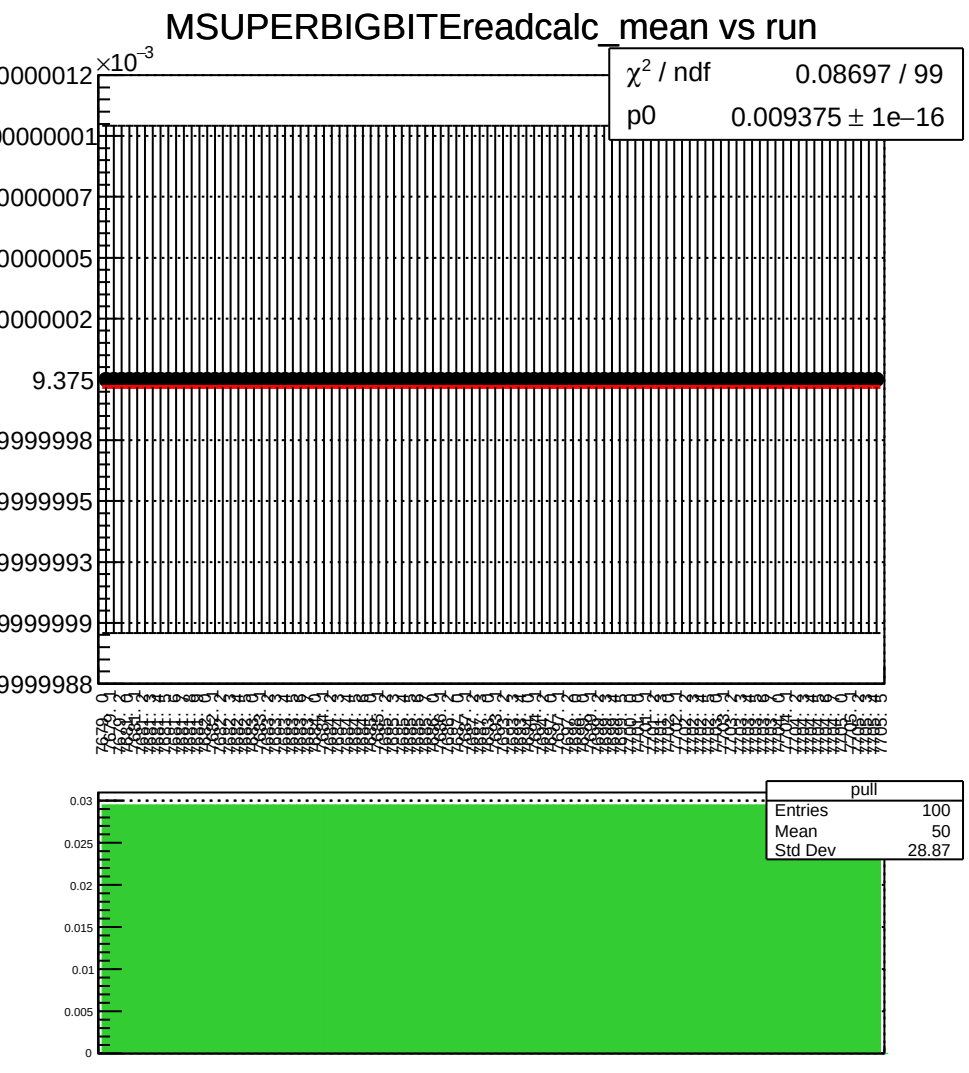

pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

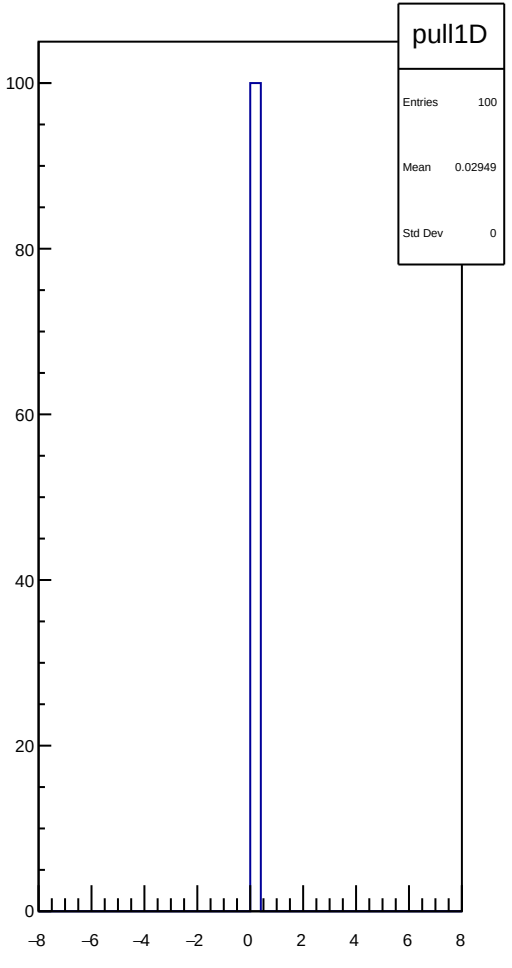

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 9.154e+26 / 99
p0 977.8 ± 1e−16
977.79
977.788
977.786
977.784
977.782
977.78
977.778
977.776
977.774
pull
Entries 100
Mean −2.356e+08
Std Dev 0
×10¹²
12
10
8
6
4
2
0
−2
−4

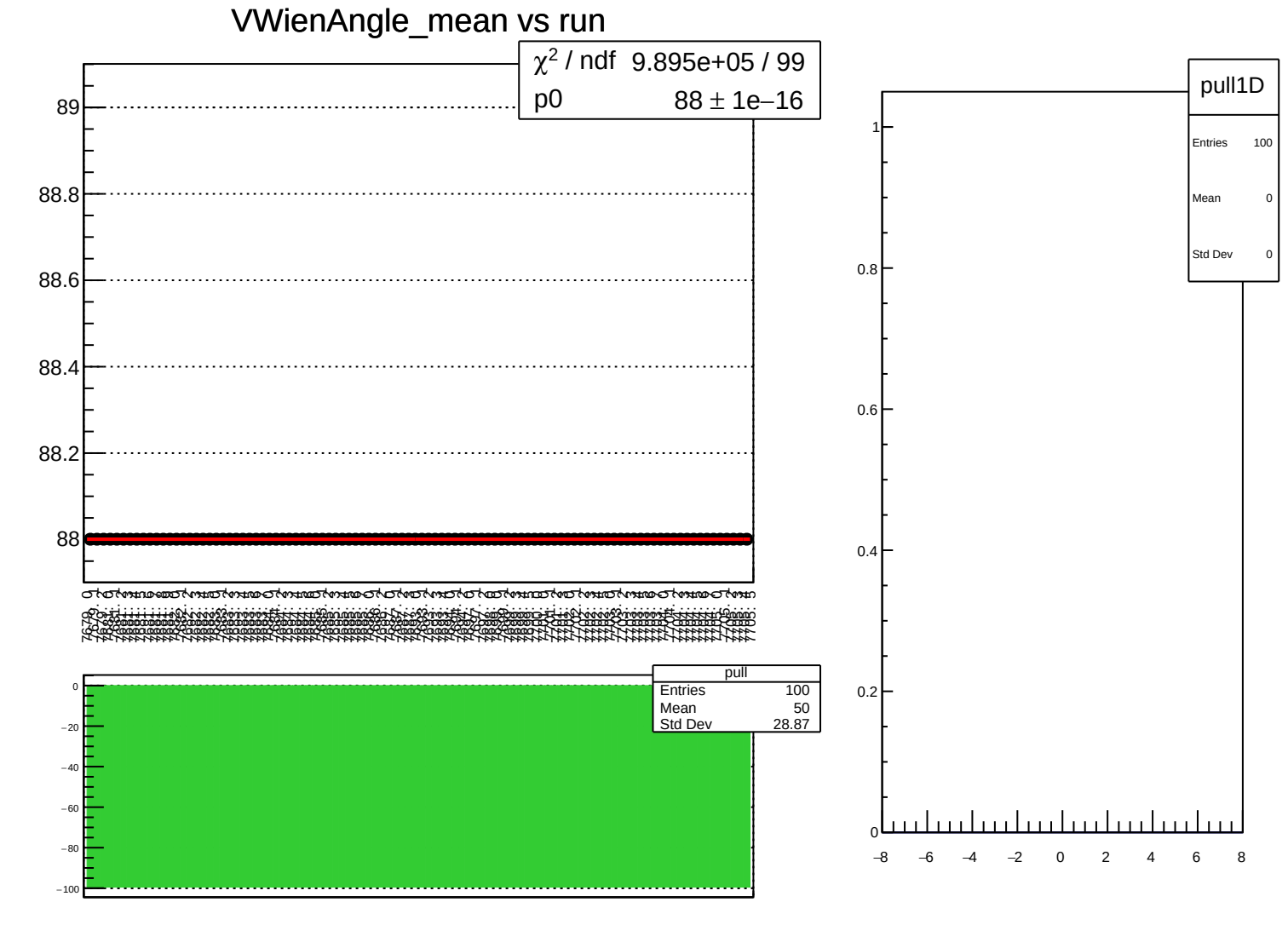

pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

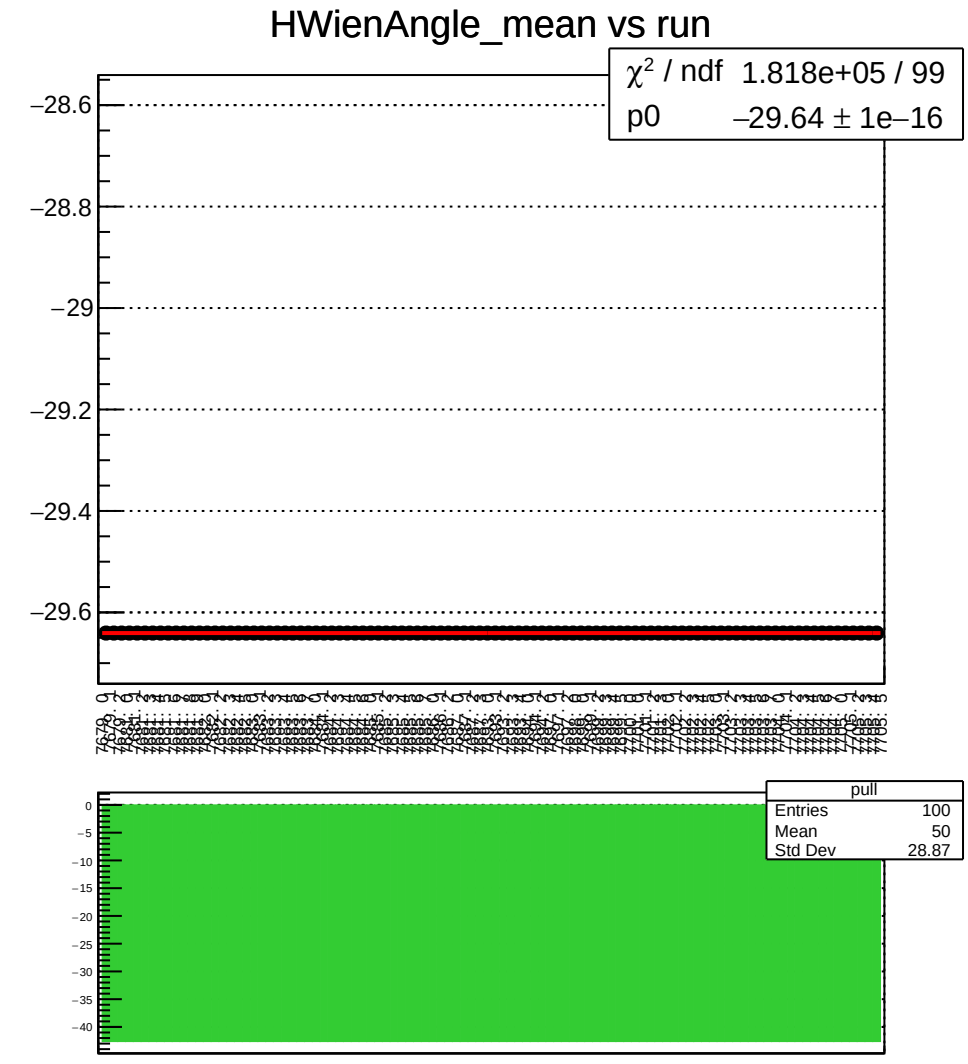

hesDipole_current_mean vs run
χ² / ndf 0.08697 / 99
p0 0.009375 ± 1e−16
×10⁻³
pull
Entries 100
Mean 50
Std Dev 28.87

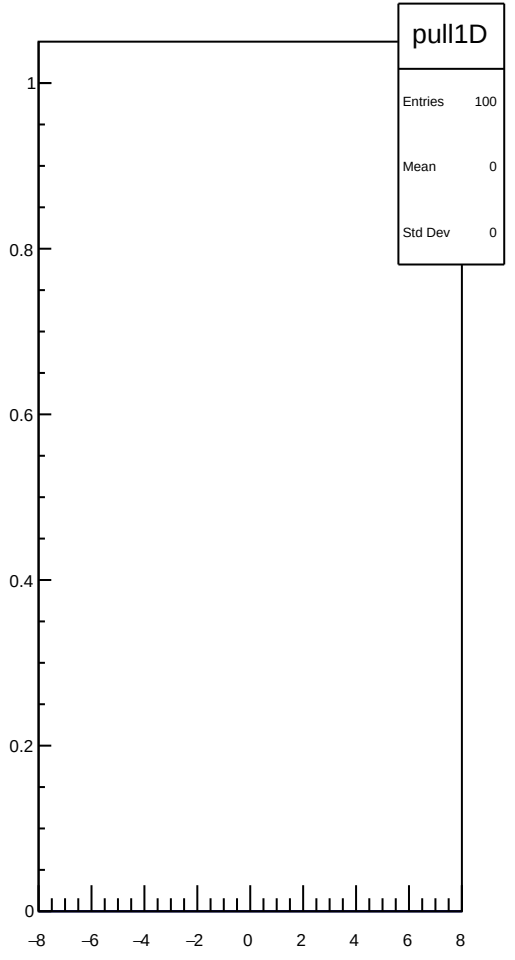

pull1D
Entries 100
Mean 0.02949
Std Dev 0

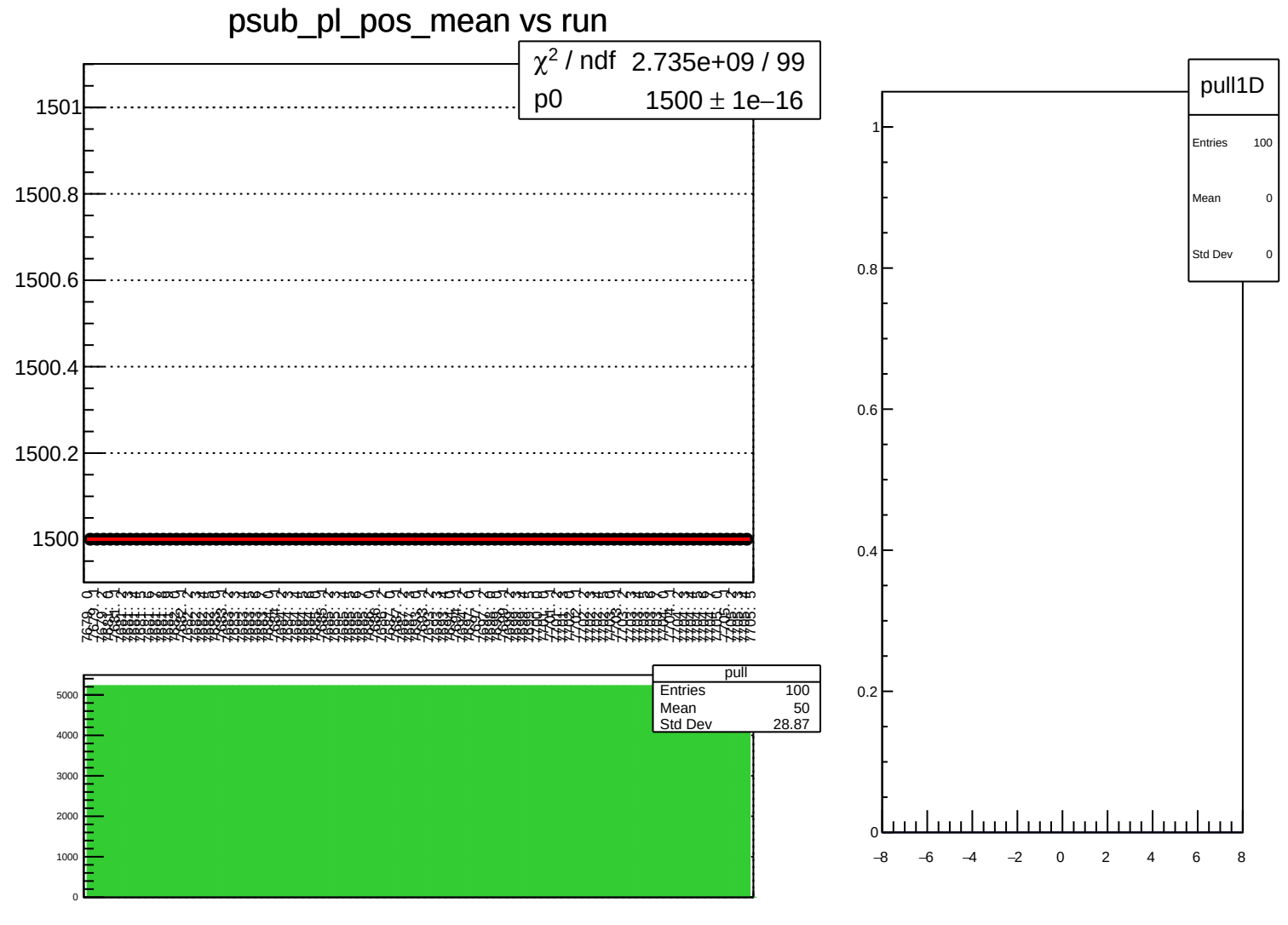

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.08697 / 99
p0 0.009375 ± 1e–16
×10⁻³
pull
Entries 100
Mean 50
Std Dev 28.87

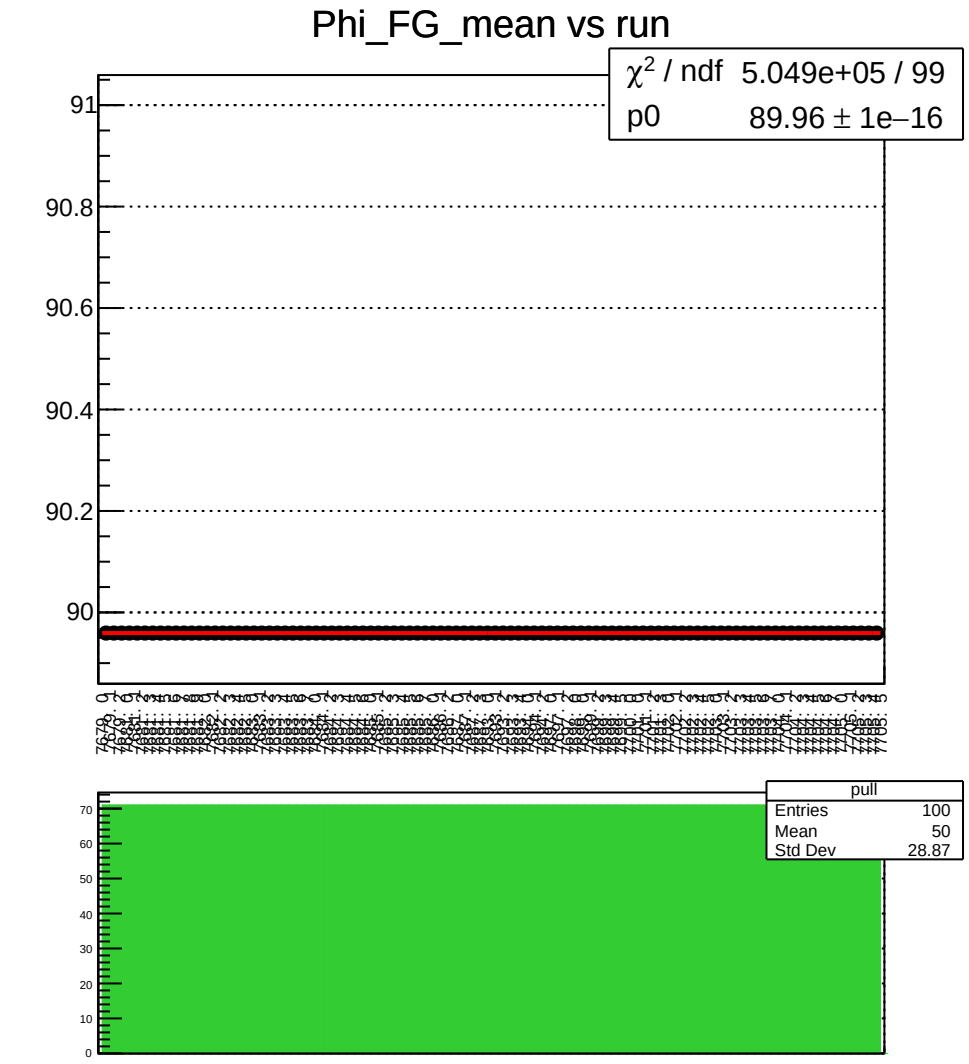

pull1D
Entries 100
Mean 0.02949
Std Dev 0

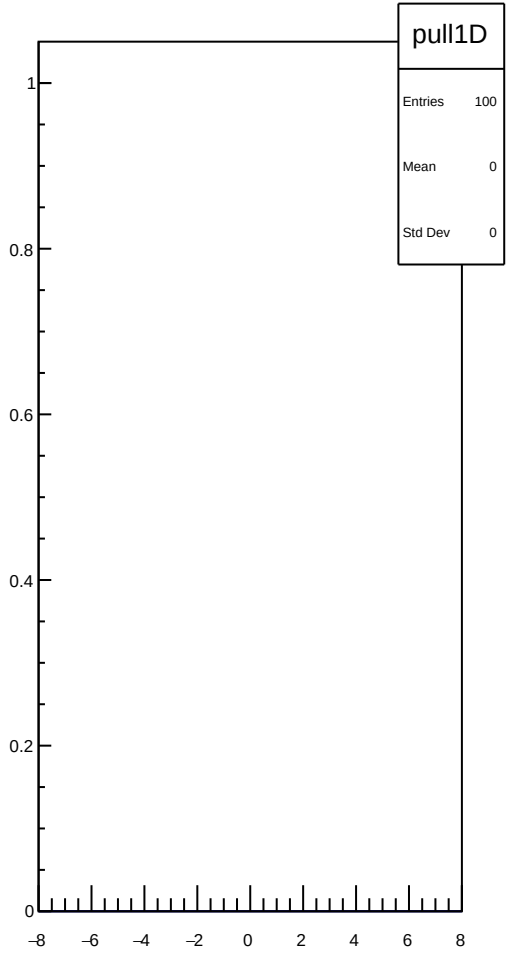

VWienAngle_mean vs run
χ² / ndf 9.895e+05 / 99
p0 88 ± 1e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 100
Mean 50
Std Dev 28.87
0
−20
−40
−60
−80
−100
pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

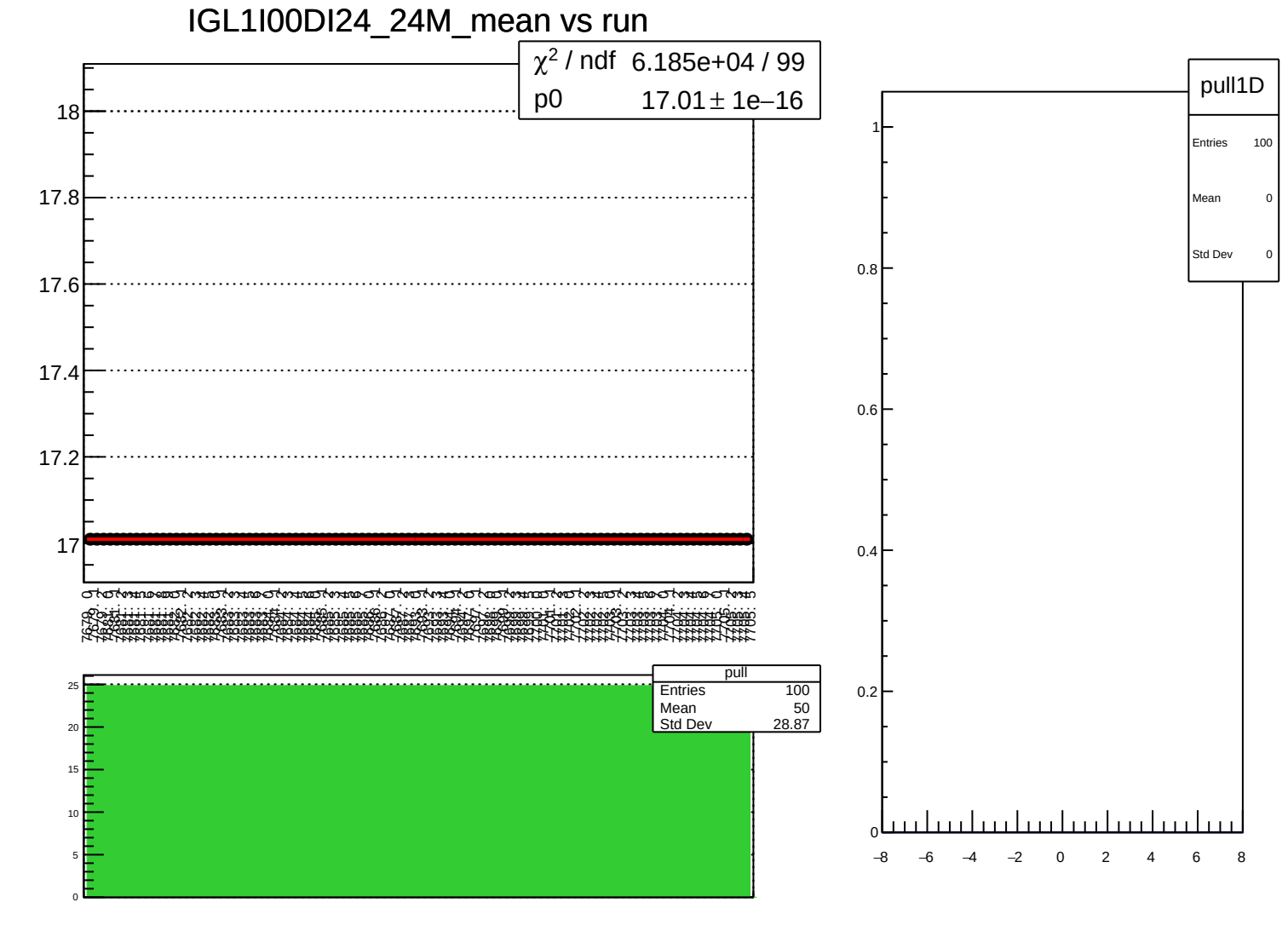

HWienAngle_mean vs run
χ² / ndf 1.818e+05 / 99
p0 −29.64 ± 1e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 100
Mean 50
Std Dev 28.87
0
−5
−10
−15
−20
−25
−30
−35
−40

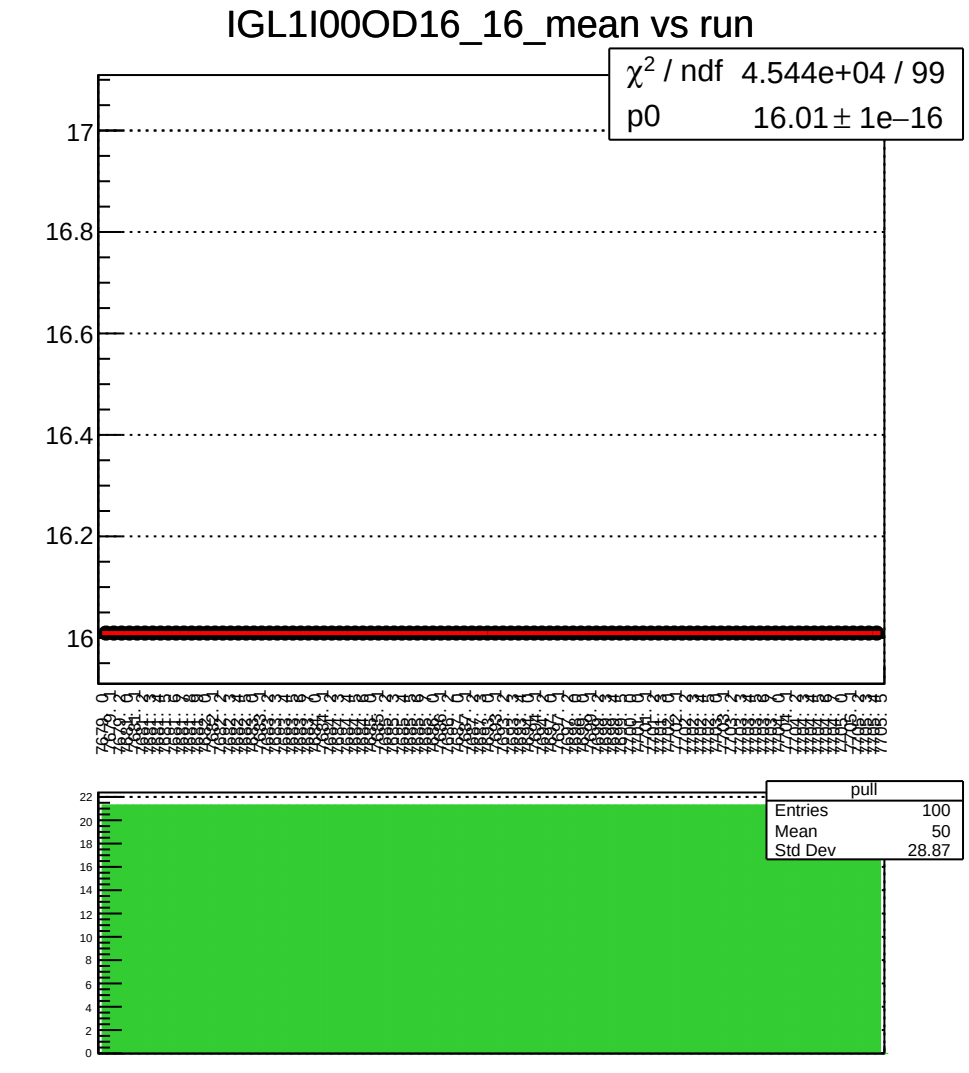

pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

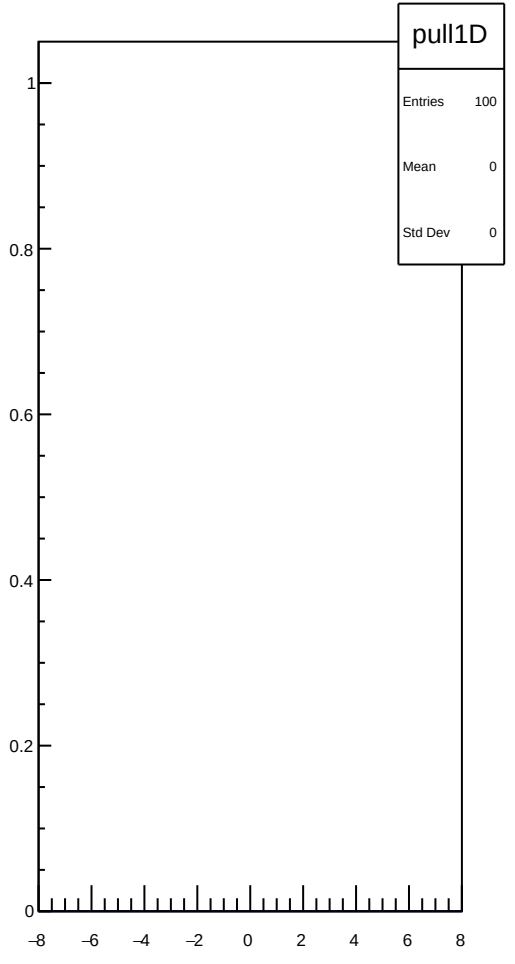

psub_pl_pos_mean vs run
χ² / ndf 2.735e+09 / 99
p0 1500 ± 1e−16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 100
Mean 50
Std Dev 28.87
5000
4000
3000
2000
1000
0
pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

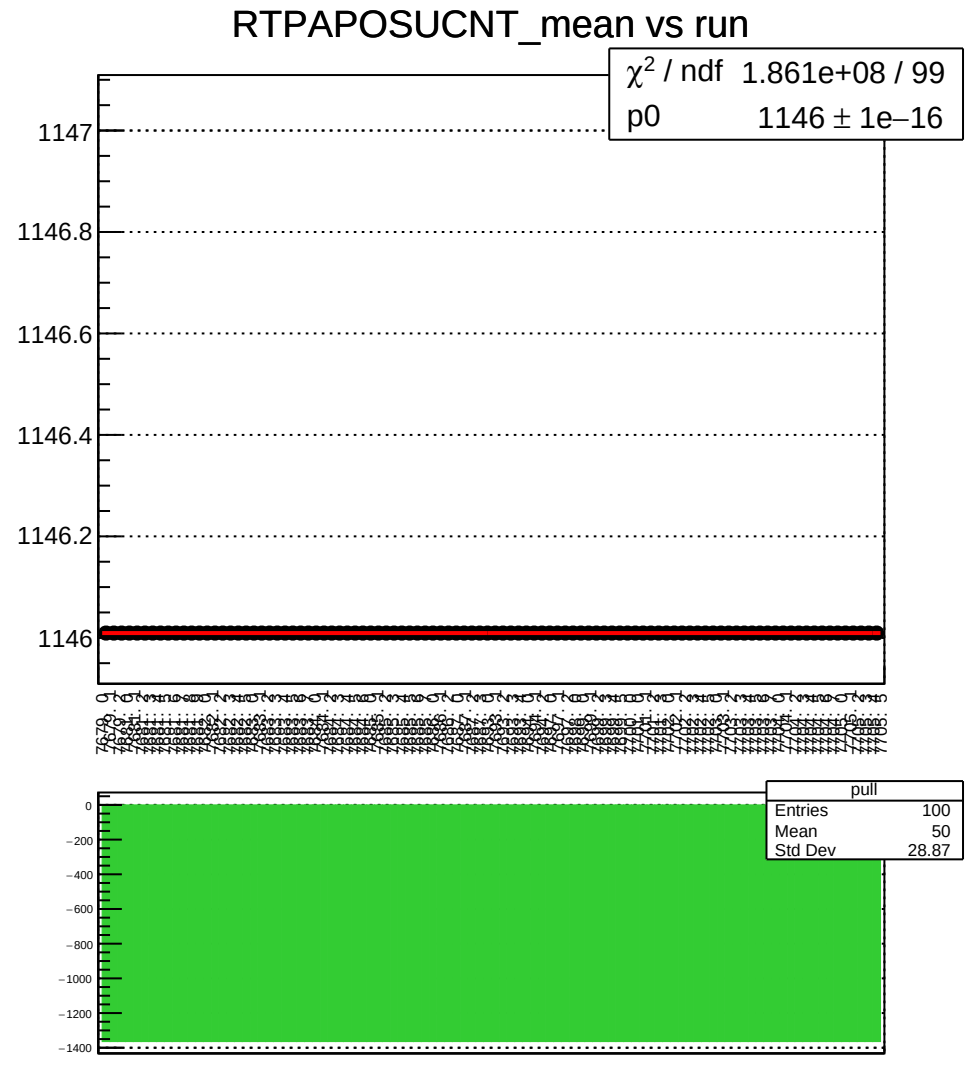

Phi_FG_mean vs run
χ² / ndf 5.049e+05 / 99
p0 89.96 ± 1e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 100
Mean 50
Std Dev 28.87
70
60
50
40
30
20
10
0

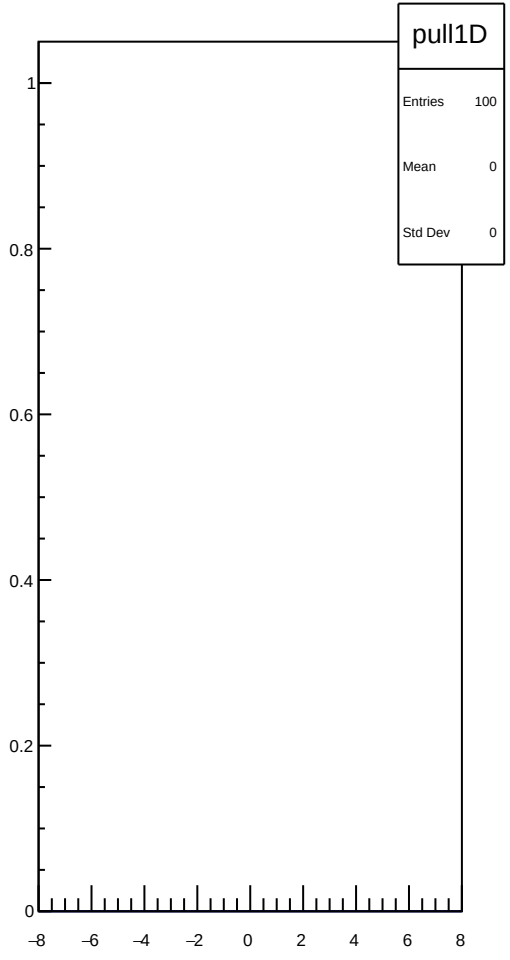

pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

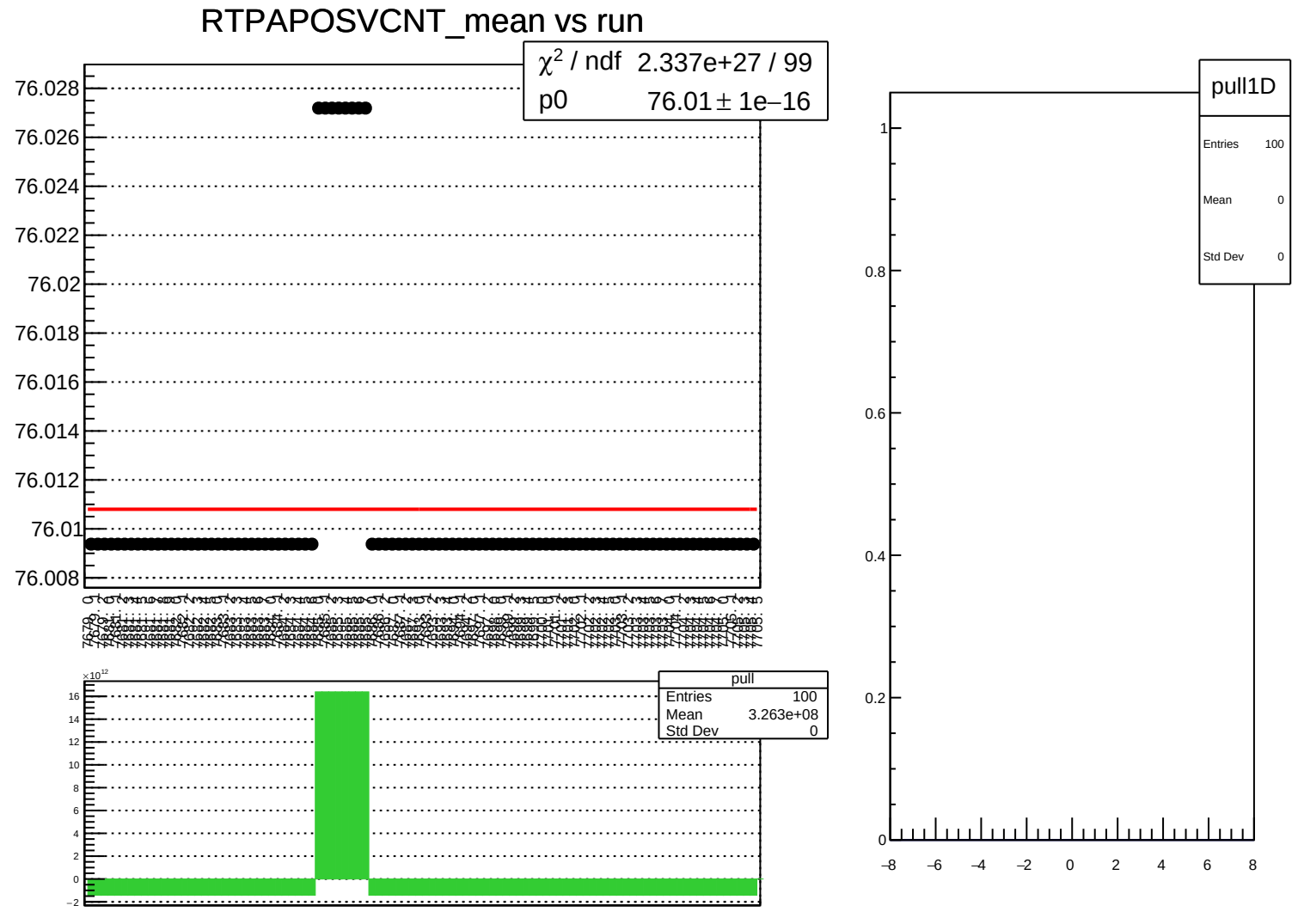

IGL1I00DI24_24M_mean vs run
χ² / ndf 6.185e+04 / 99
p0 17.01 ± 1e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 100
Mean 50
Std Dev 28.87
25
20
15
10
5
0
pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

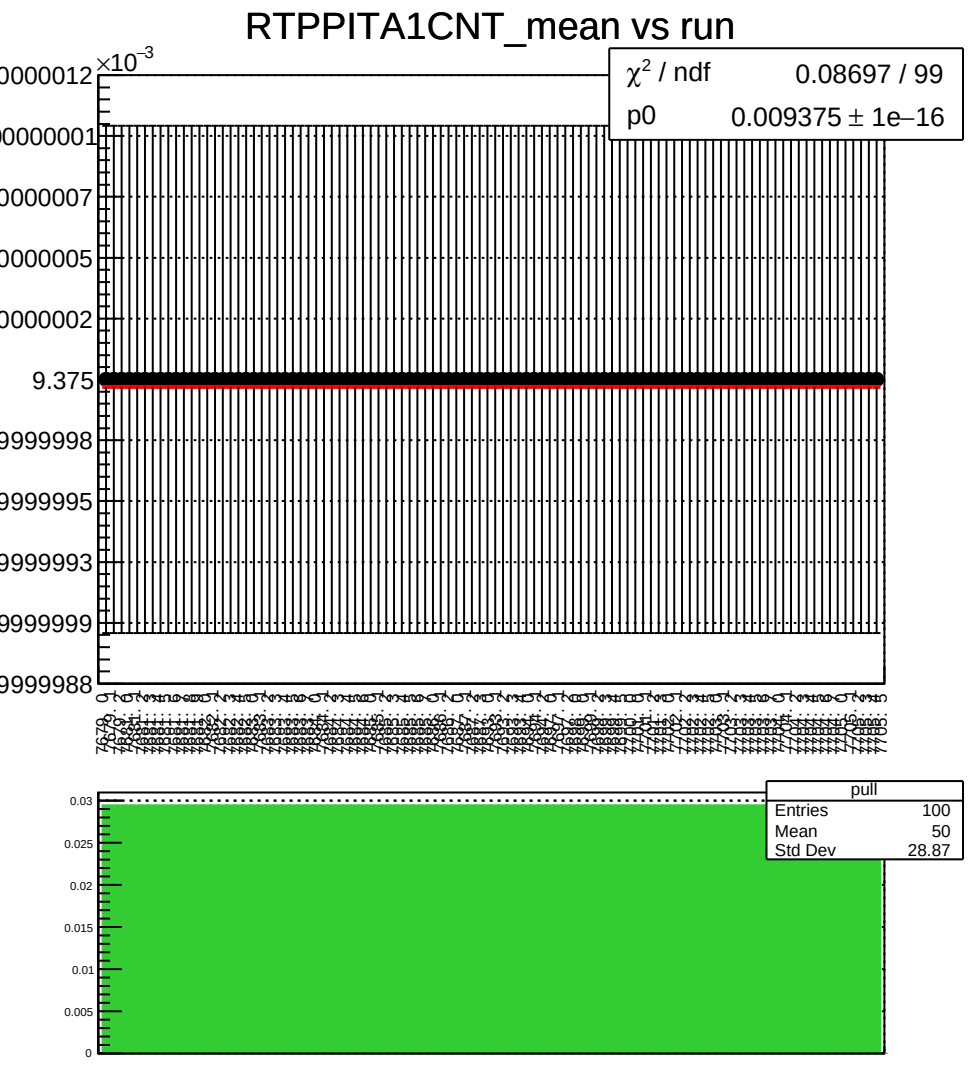

IGL1I00OD16_16_mean vs run
χ² / ndf 4.544e+04 / 99
p0 16.01 ± 1e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 100
Mean 50
Std Dev 28.87
22
20
18
16
14
12
10
8
6
4
2
0

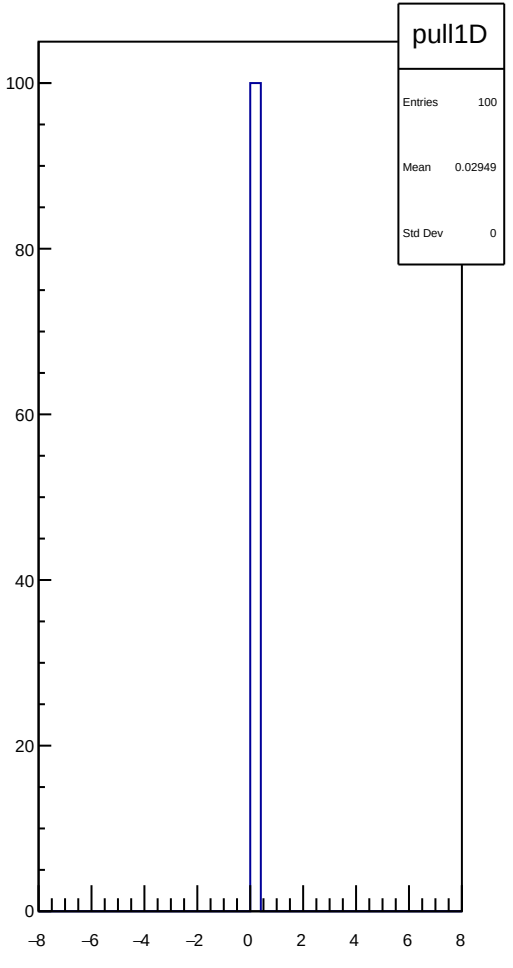

pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

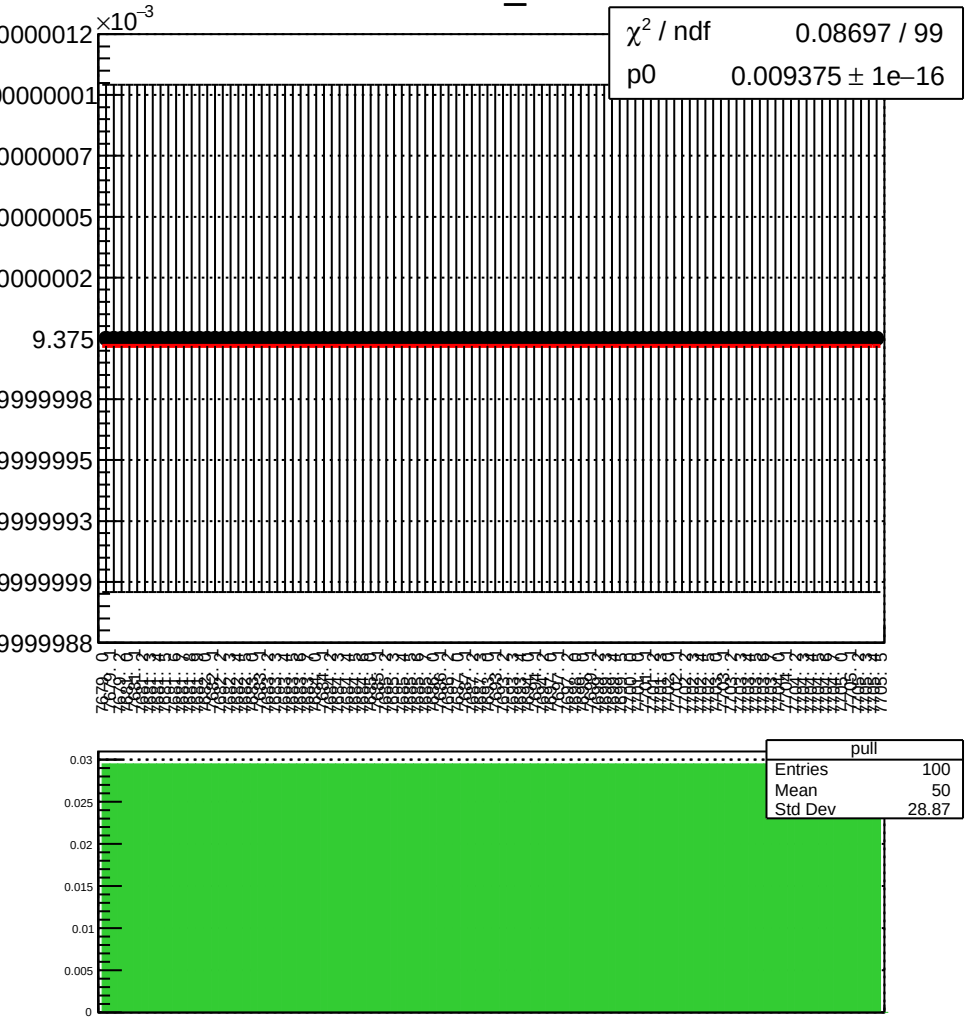

RTPAPOSUCNT_mean vs run
χ² / ndf 1.861e+08 / 99
p0 1146 ± 1e−16
1147
1146.8
1146.6
1146.4
1146.2
1146
pull
Entries 100
Mean 50
Std Dev 28.87
0
−200
−400
−600
−800
−1000
−1200
−1400

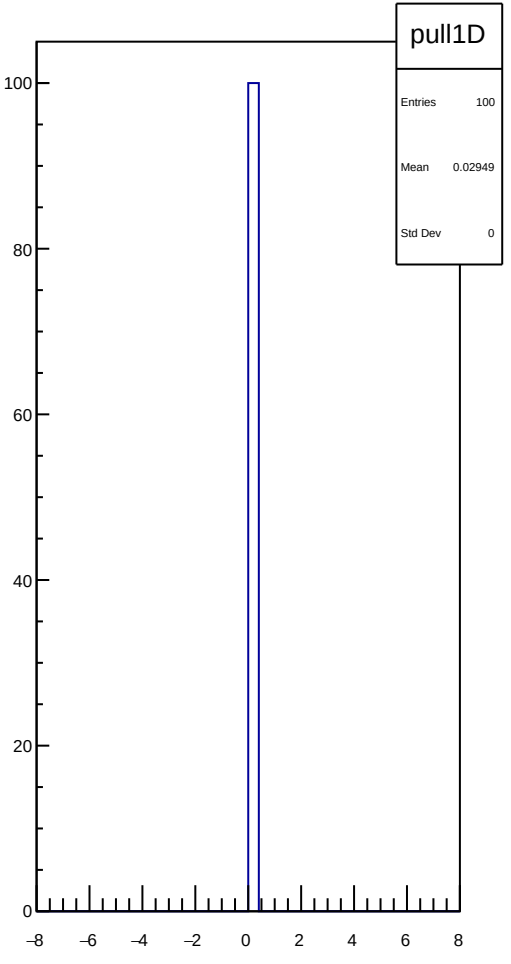

pull1D
Entries 100
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 2.337e+27 / 99
p0 76.01 ± 1e−16
76.028
76.026
76.024
76.022
76.02
76.018
76.016
76.014
76.012
76.01
76.008
pull
Entries 100
Mean 3.263e+08
Std Dev 0
×10¹²
16
14
12
10
8
6
4
2
0
−2
pull1D
Entries 100
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 0.08697 / 99
p0 0.009375 ± 1e–16
×10⁻³
pull
Entries 100
Mean 50
Std Dev 28.87


pull1D
Entries 100
Mean 0.02949
Std Dev 0


RTPPITA2CNT_mean vs run
χ² / ndf 0.08697 / 99
p0 0.009375 ± 1e−16
×10⁻³
pull
Entries 100
Mean 50
Std Dev 28.87


pull1D
Entries 100
Mean 0.02949
Std Dev 0