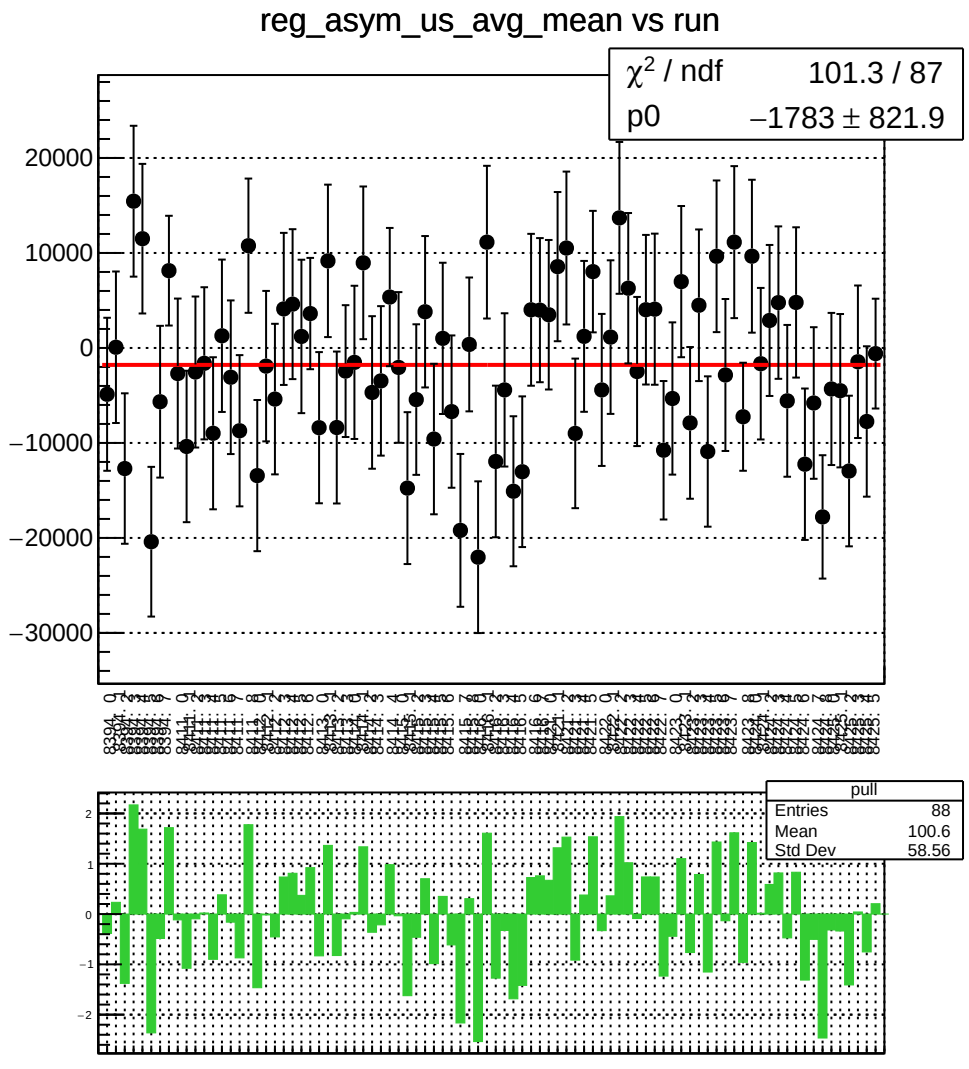
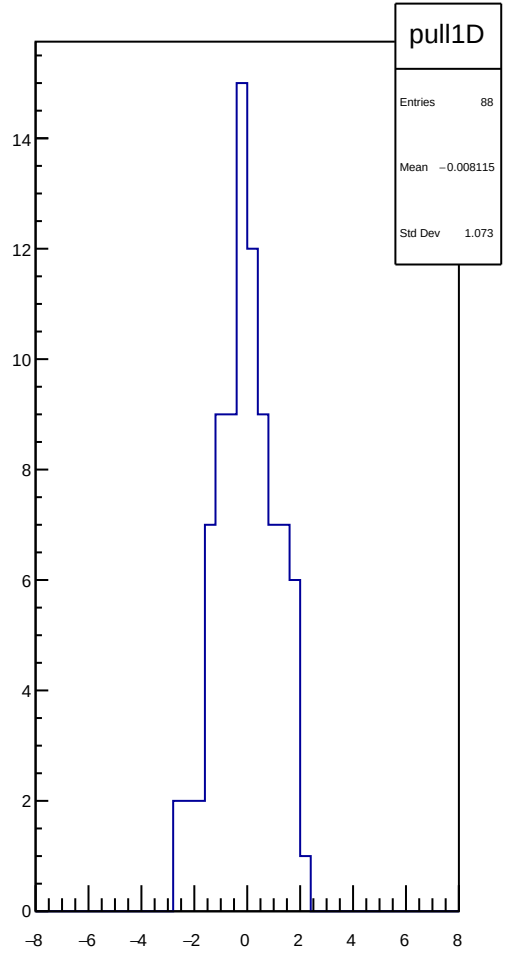
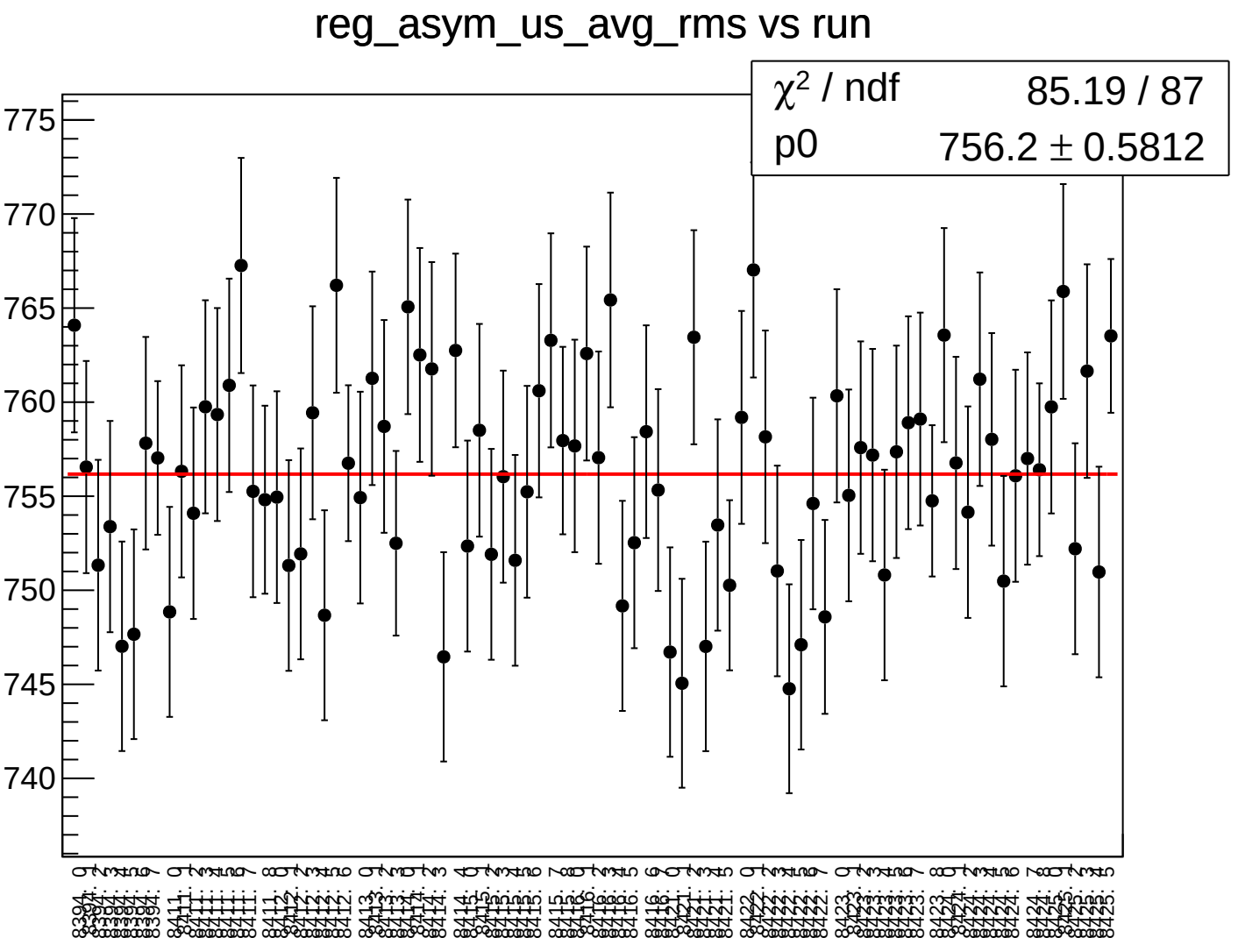
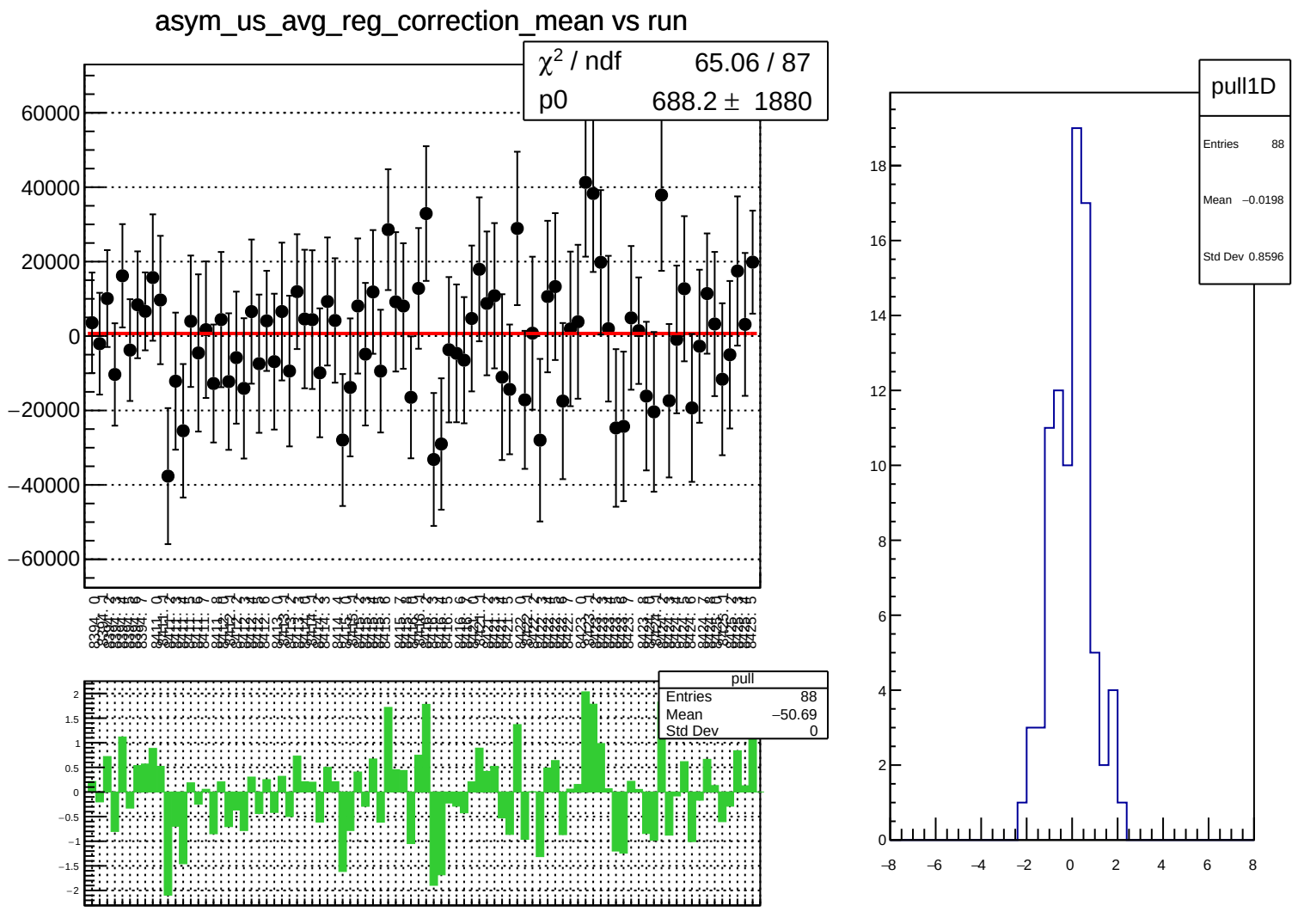
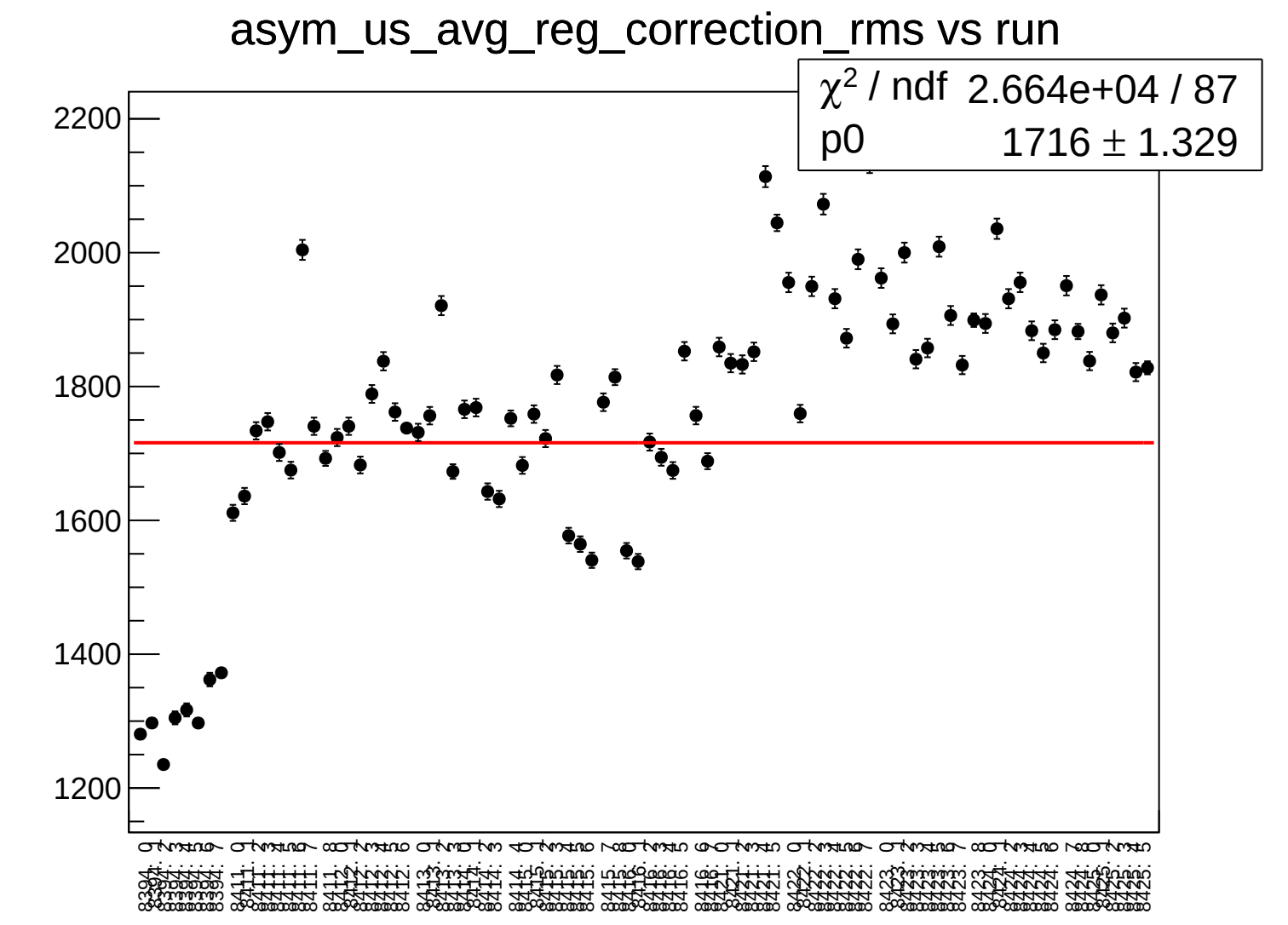
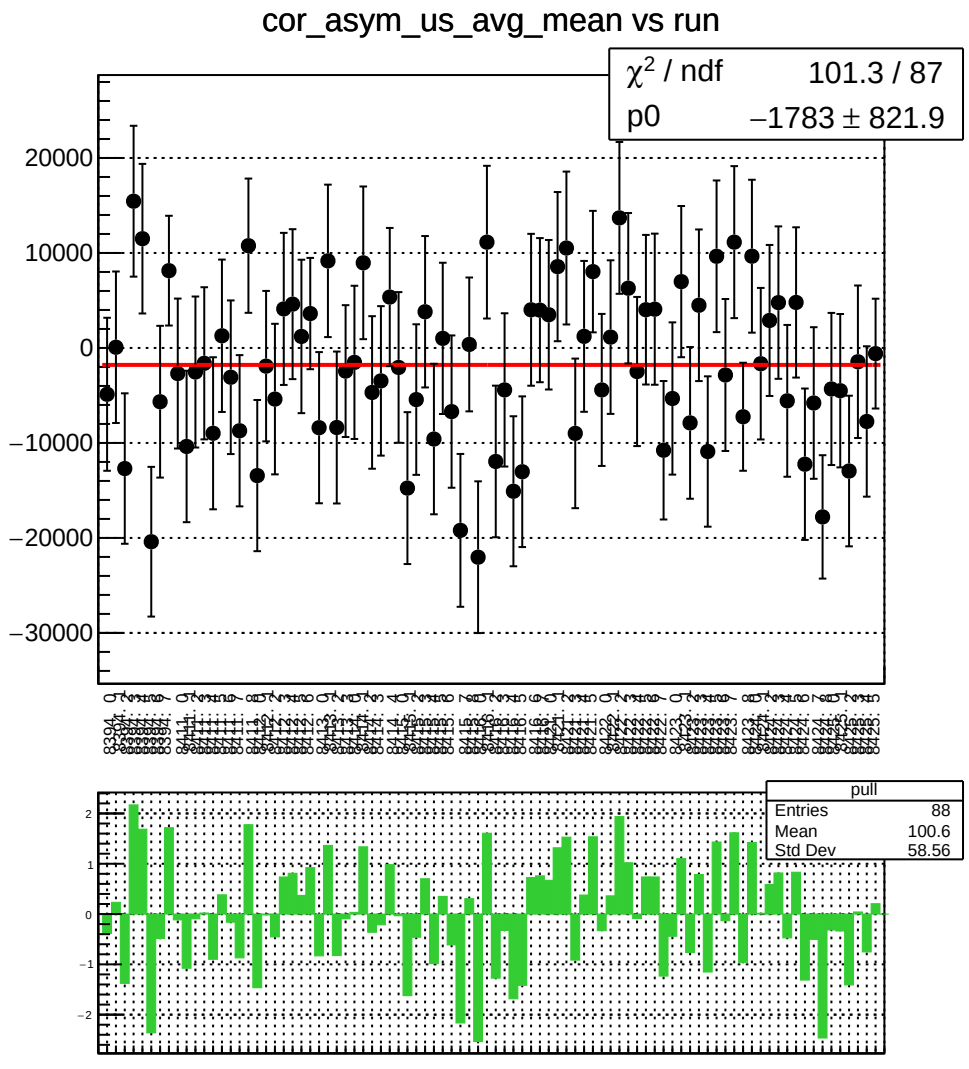

reg_asym_us_avg_mean vs run
χ² / ndf 101.3 / 87
p0 −1783 ± 821.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 100.6
Std Dev 58.56
2
1
0
−1
−2

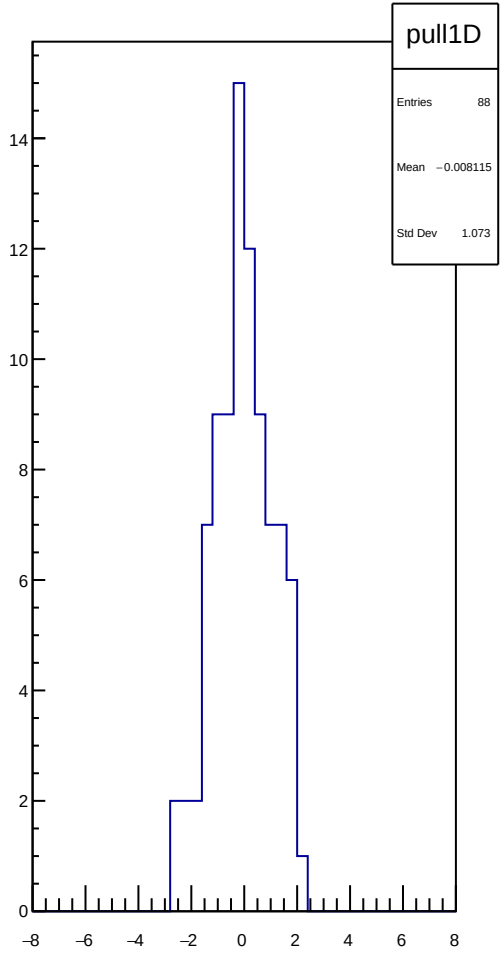

pull1D
Entries 88
Mean −0.008115
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

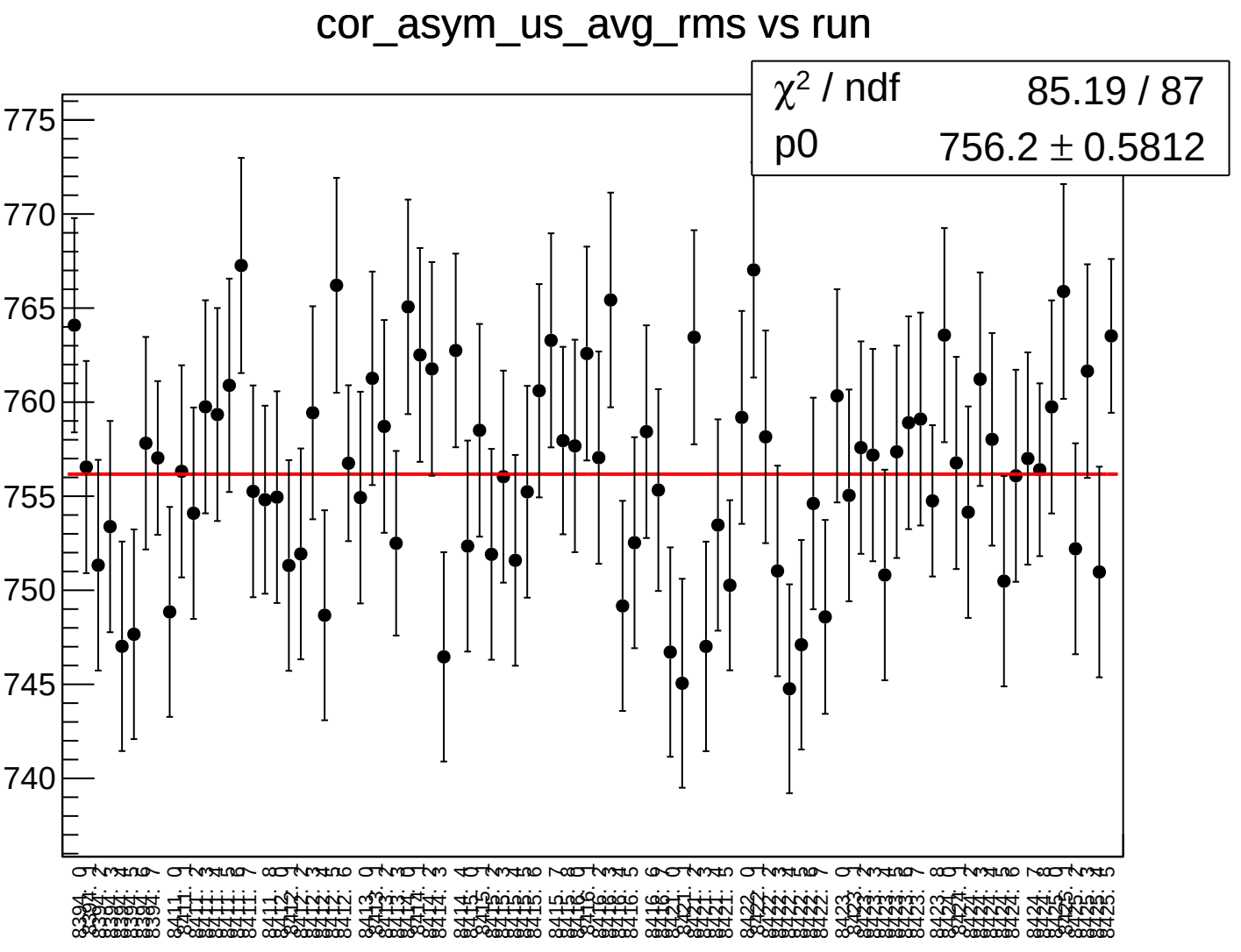

reg_asym_us_avg_rms vs run
χ^2 / ndf 85.19 / 87
p0 756.2 ± 0.5812
775
770
765
760
755
750
745
740

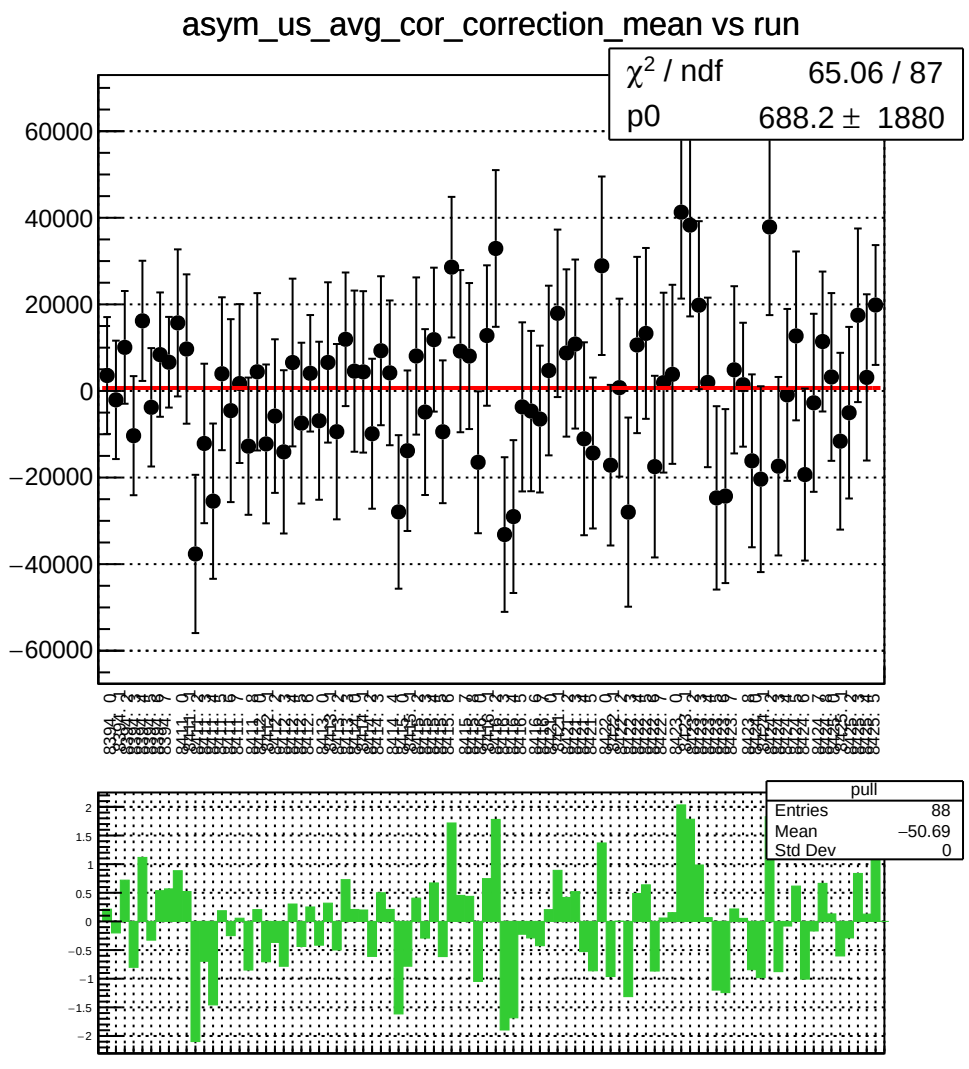

asym_us_avg_reg_correction_mean vs run
χ² / ndf 65.06 / 87
p0 688.2 ± 1880
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −50.69
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.0198
Std Dev 0.8596
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

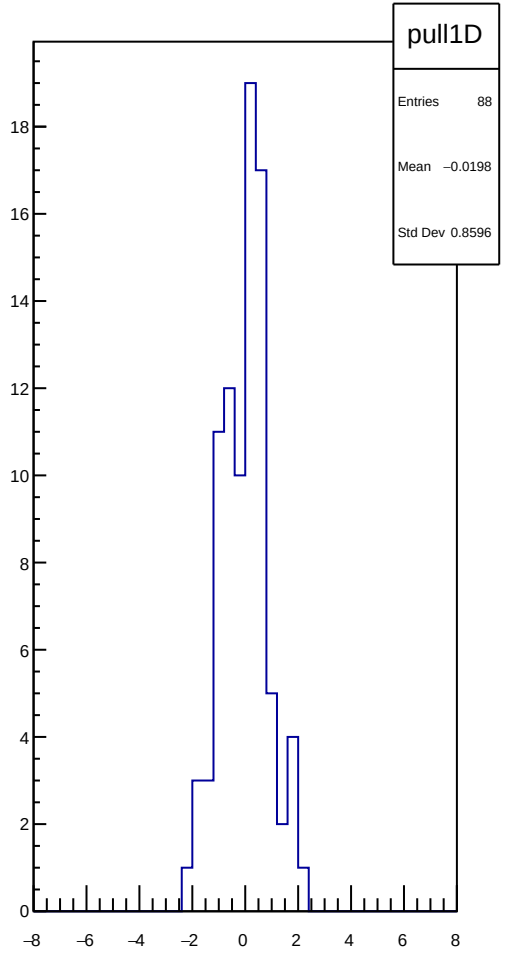

asym_us_avg_reg_correction_rms vs run
χ² / ndf 2.664e+04 / 87
p0 1716 ± 1.329
2200
2000
1800
1600
1400
1200

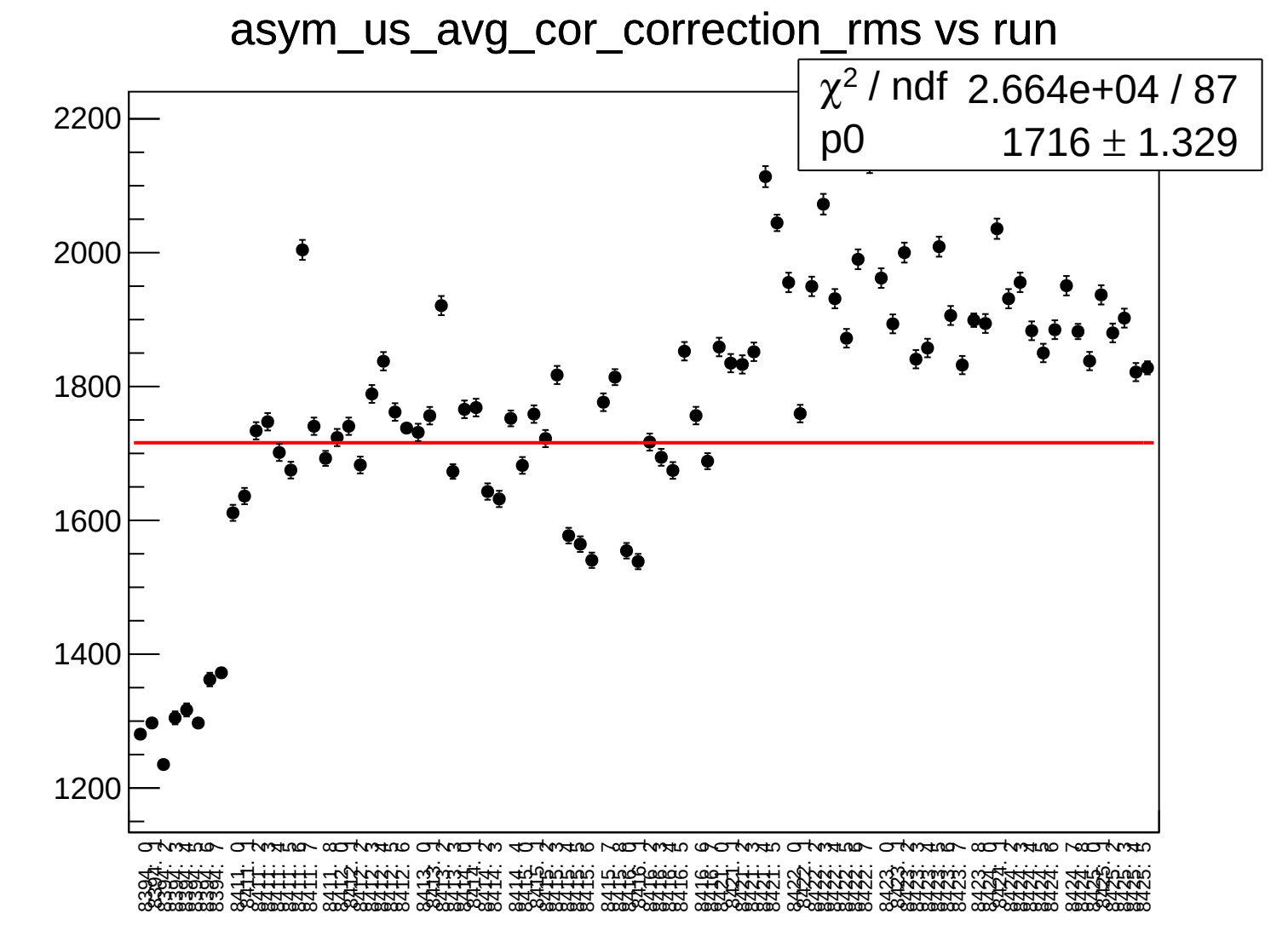

cor_asym_us_avg_mean vs run
χ² / ndf 101.3 / 87
p0 −1783 ± 821.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 100.6
Std Dev 58.56
2
1
0
−1
−2

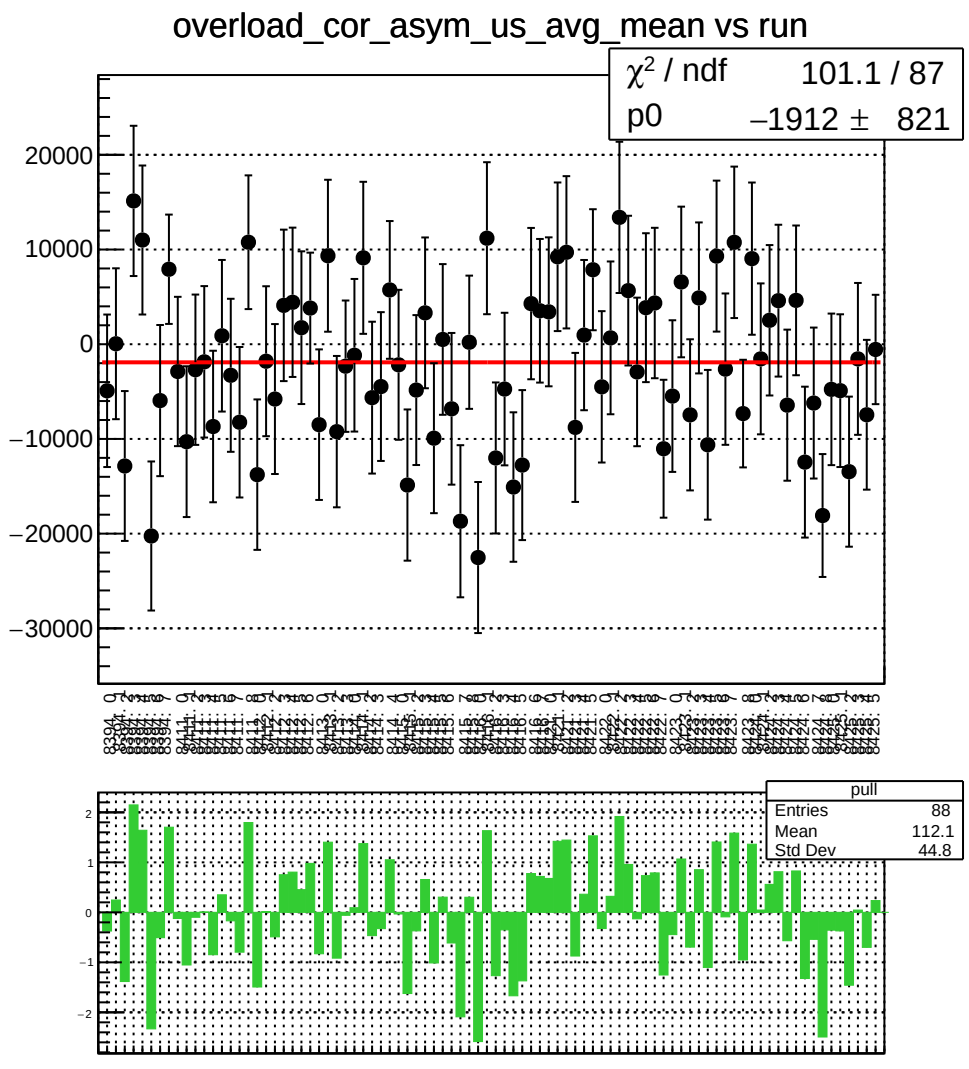

pull1D
Entries 88
Mean −0.008115
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

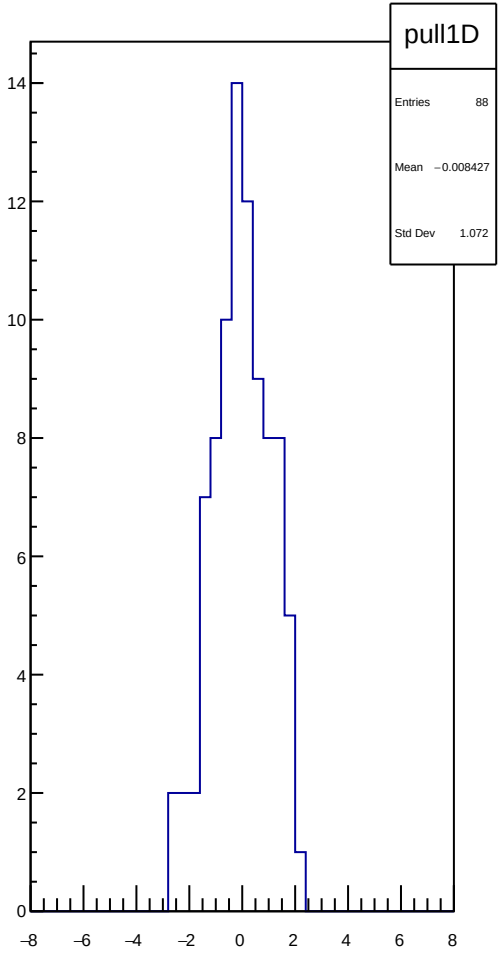

cor_asym_us_avg_rms vs run
χ^2 / ndf 85.19 / 87
p0 756.2 ± 0.5812
775
770
765
760
755
750
745
740

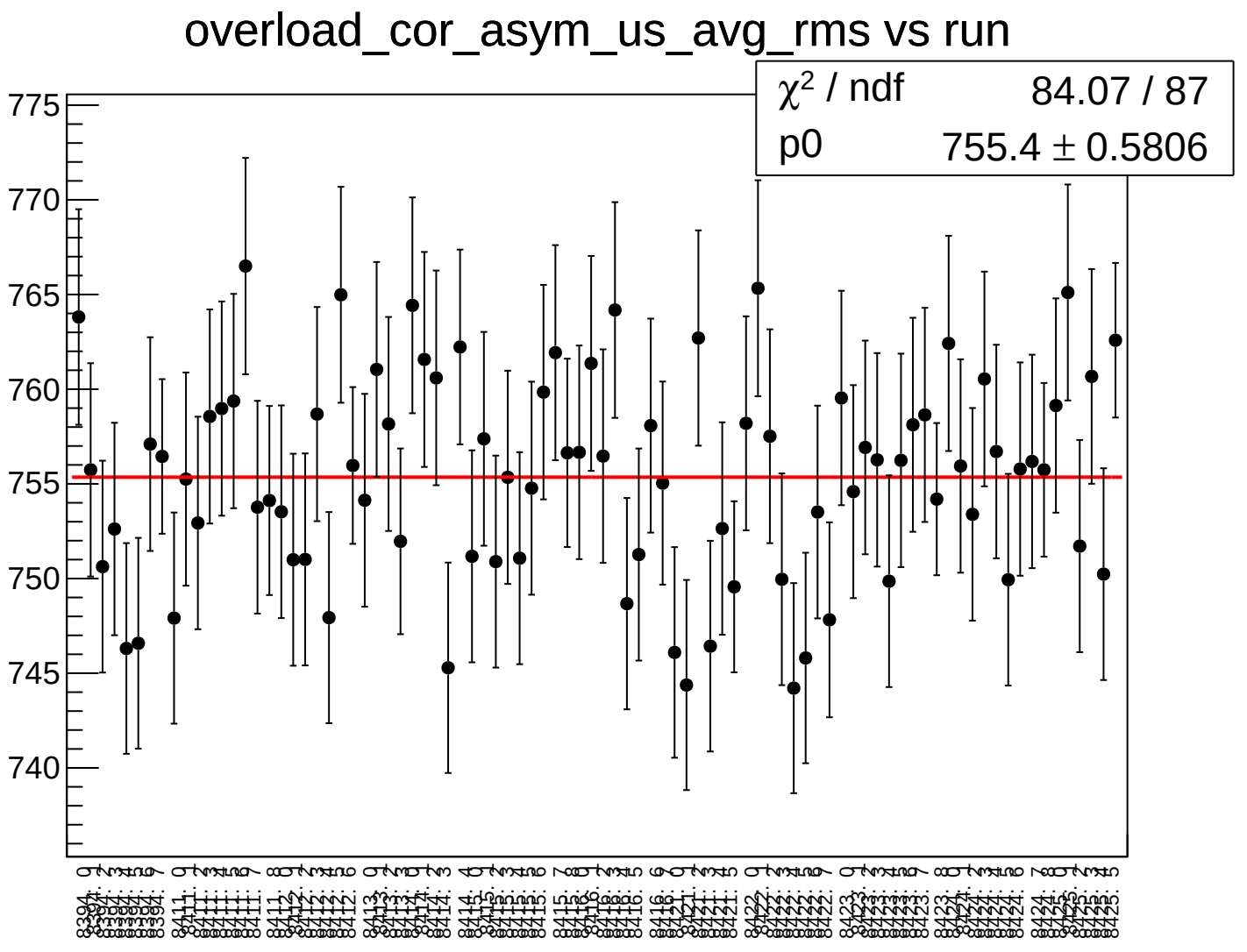

asym_us_avg_cor_correction_mean vs run
χ² / ndf 65.06 / 87
p0 688.2 ± 1880
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −50.69
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

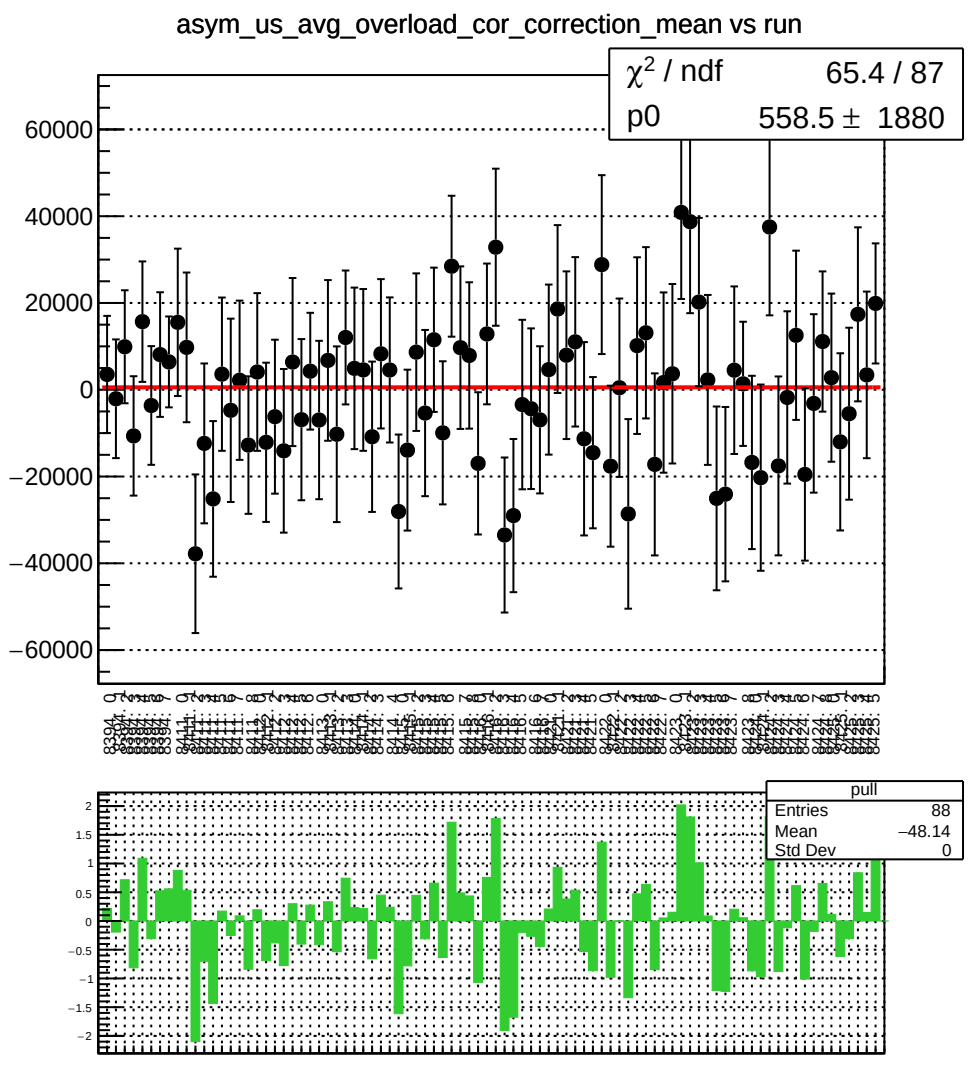

pull1D
Entries 88
Mean −0.0198
Std Dev 0.8596
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

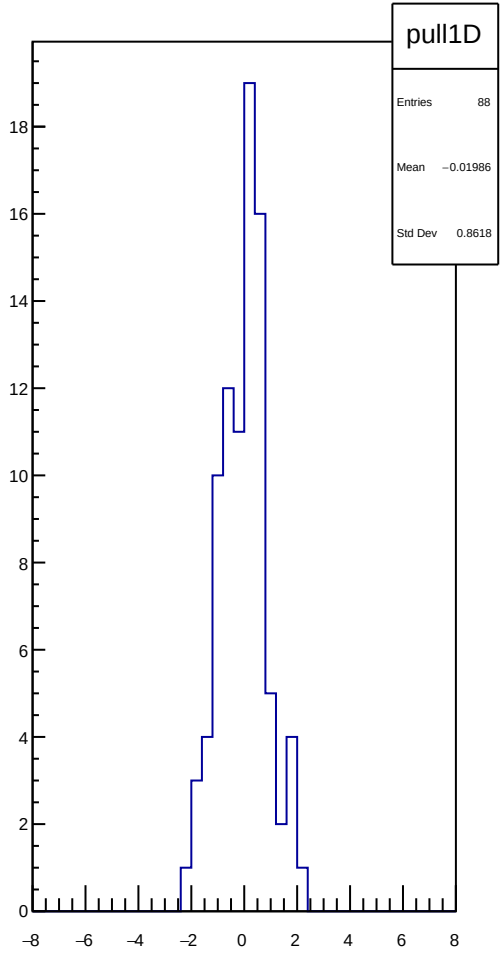

asym_us_avg_cor_correction_rms vs run
χ² / ndf 2.664e+04 / 87
p0 1716 ± 1.329
2200
2000
1800
1600
1400
1200

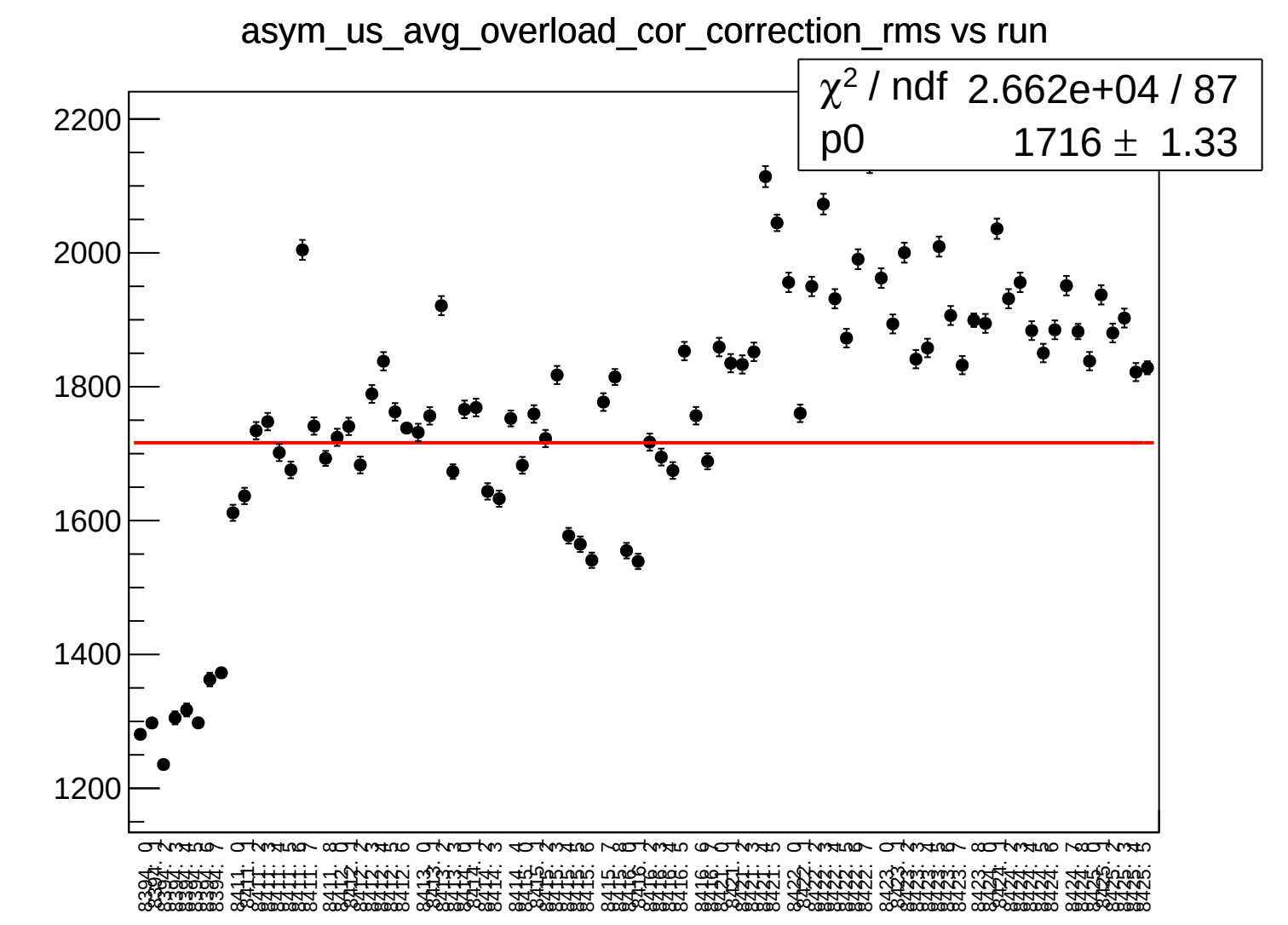

overload_cor_asym_us_avg_mean vs run
χ² / ndf 101.1 / 87
p0 −1912 ± 821
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 112.1
Std Dev 44.8
2
1
0
−1
−2

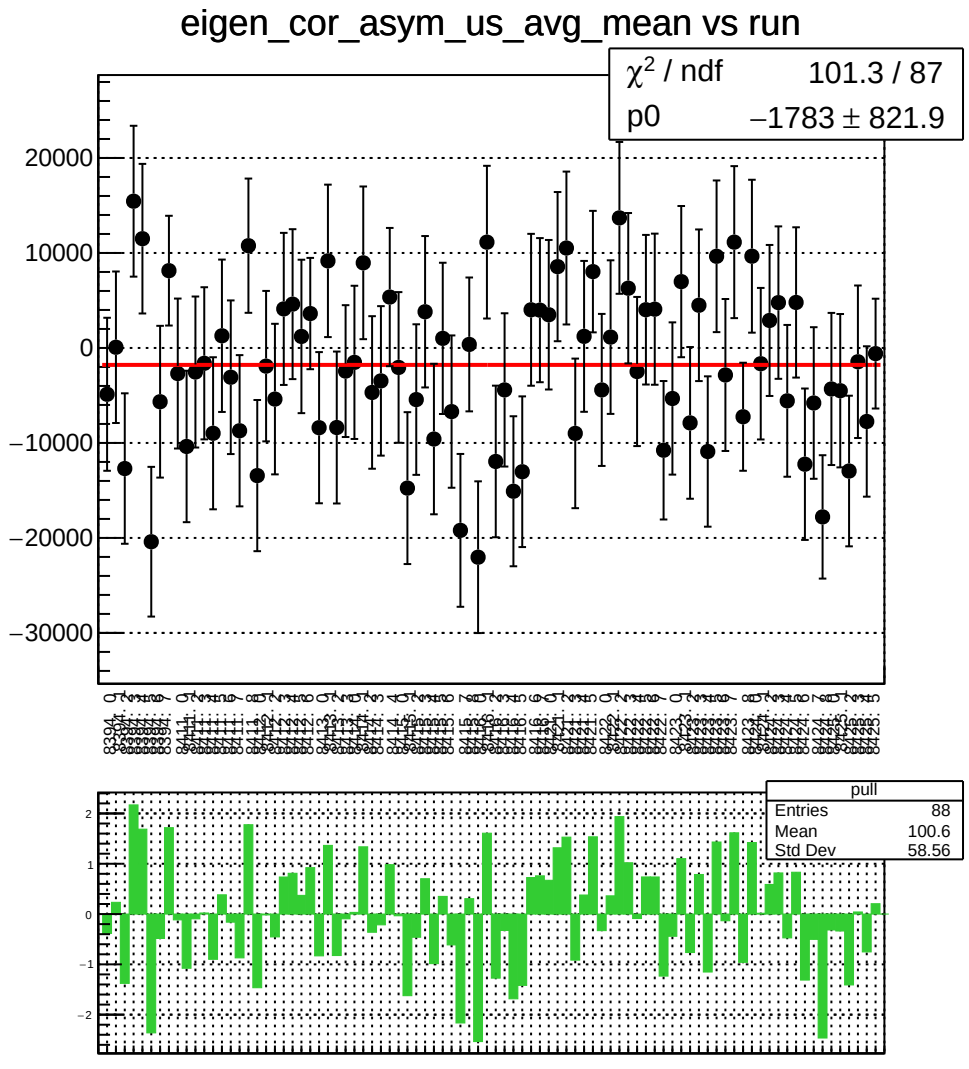

pull1D
Entries 88
Mean −0.008427
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

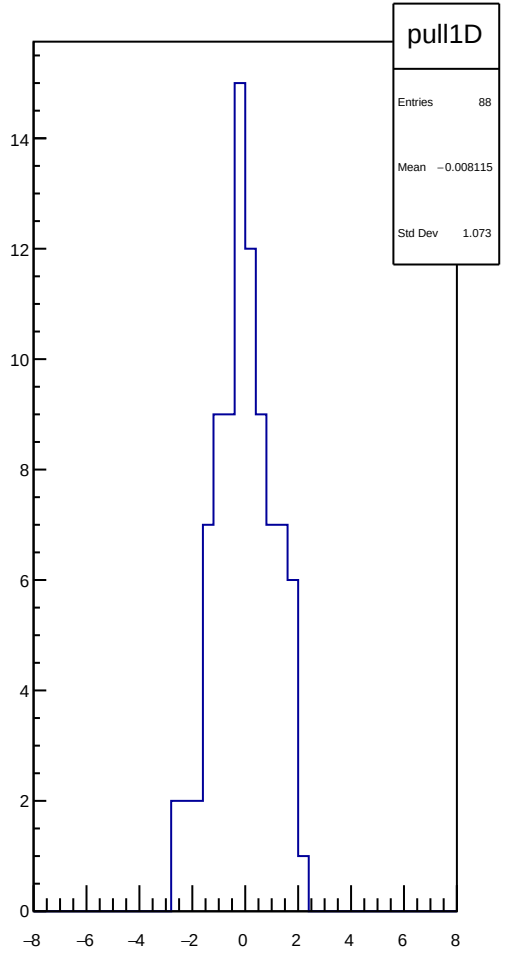

overload_cor_asym_us_avg_rms vs run
χ² / ndf 84.07 / 87
p0 755.4 ± 0.5806
775
770
765
760
755
750
745
740

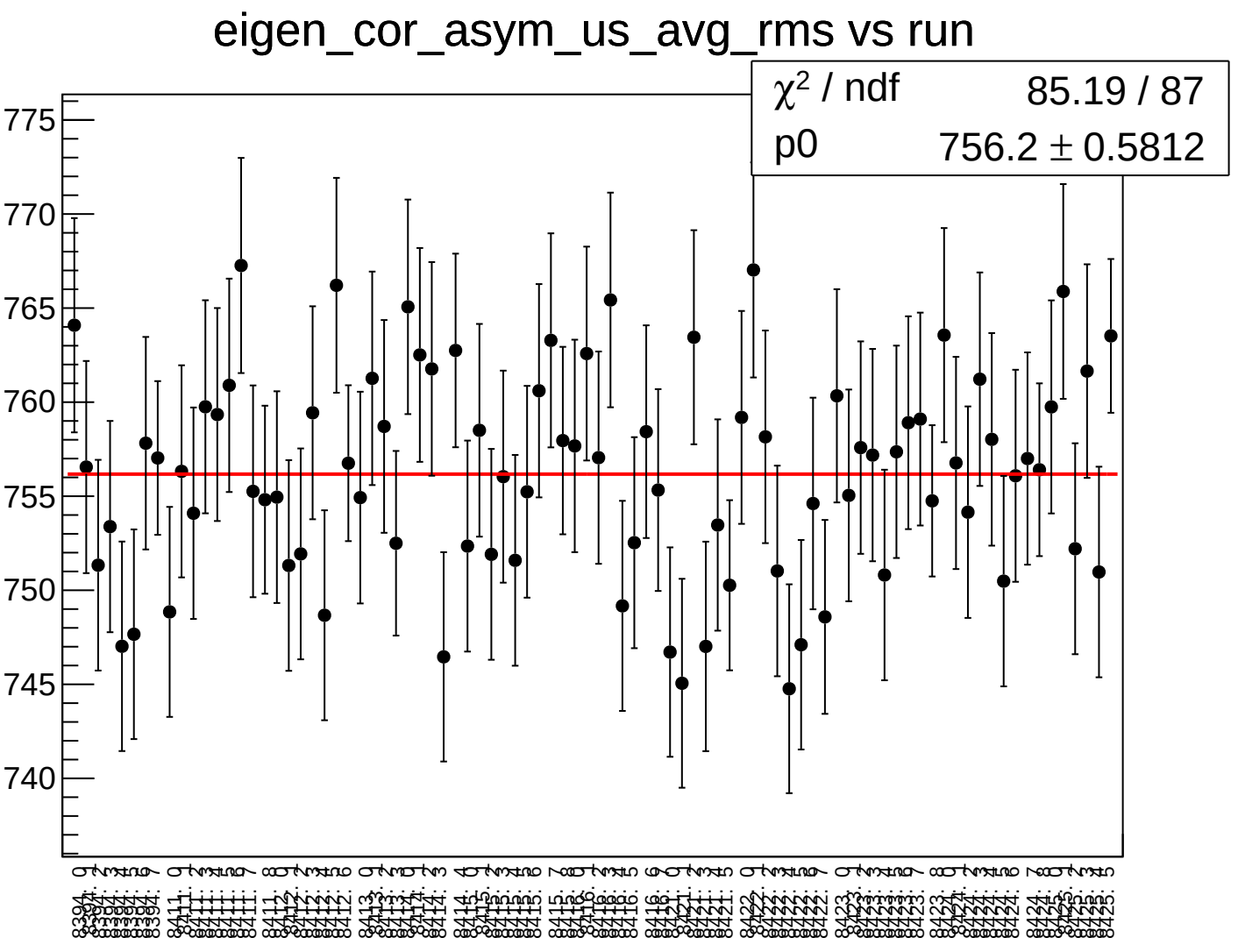

asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 65.4 / 87
p0 558.5 ± 1880
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −48.14
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

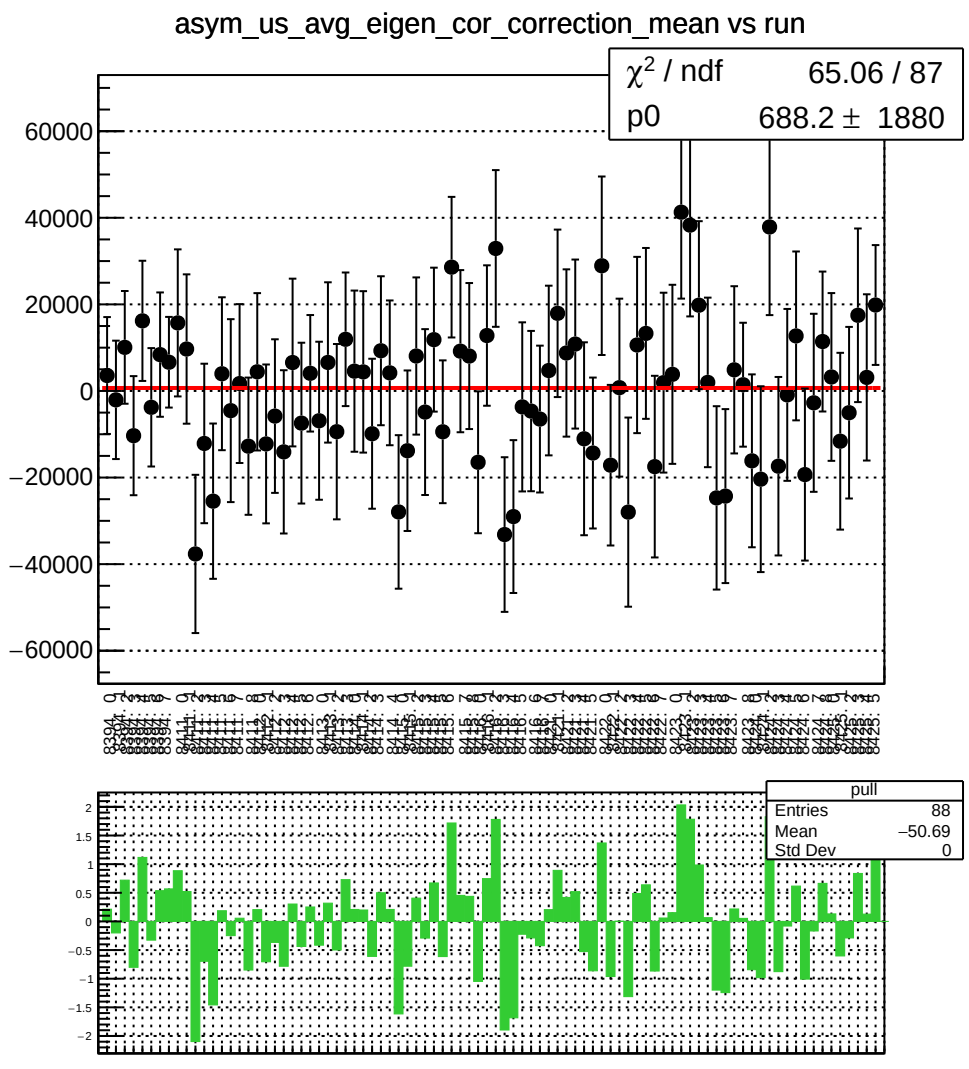

pull1D
Entries 88
Mean −0.01986
Std Dev 0.8618
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

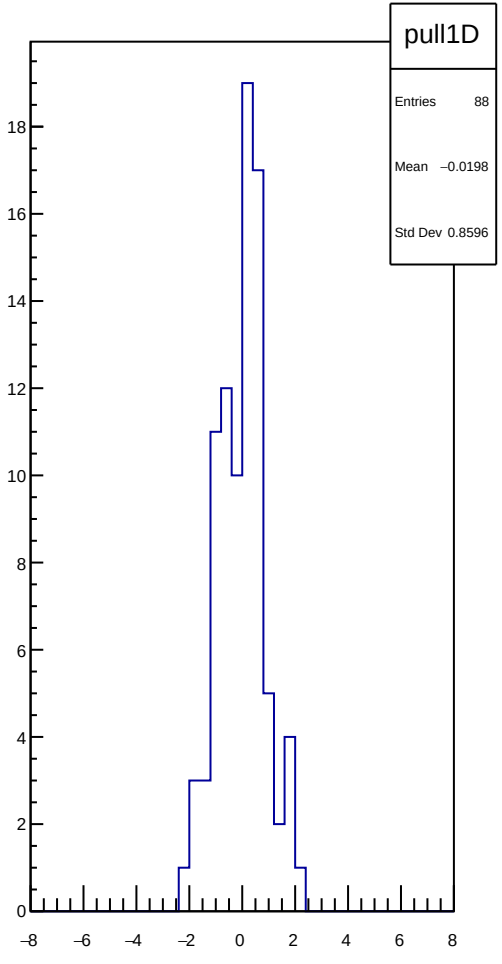

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 2.662e+04 / 87
p0 1716 ± 1.33
2200
2000
1800
1600
1400
1200


eigen_cor_asym_us_avg_mean vs run
χ² / ndf 101.3 / 87
p0 −1783 ± 821.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 100.6
Std Dev 58.56
2
1
0
−1
−2


pull1D
Entries 88
Mean −0.008115
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_avg_rms vs run
χ² / ndf 85.19 / 87
p0 756.2 ± 0.5812
775
770
765
760
755
750
745
740


asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 65.06 / 87
p0 688.2 ± 1880
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −50.69
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 88
Mean −0.0198
Std Dev 0.8596
18
16
14
12
10
8
6
4
2
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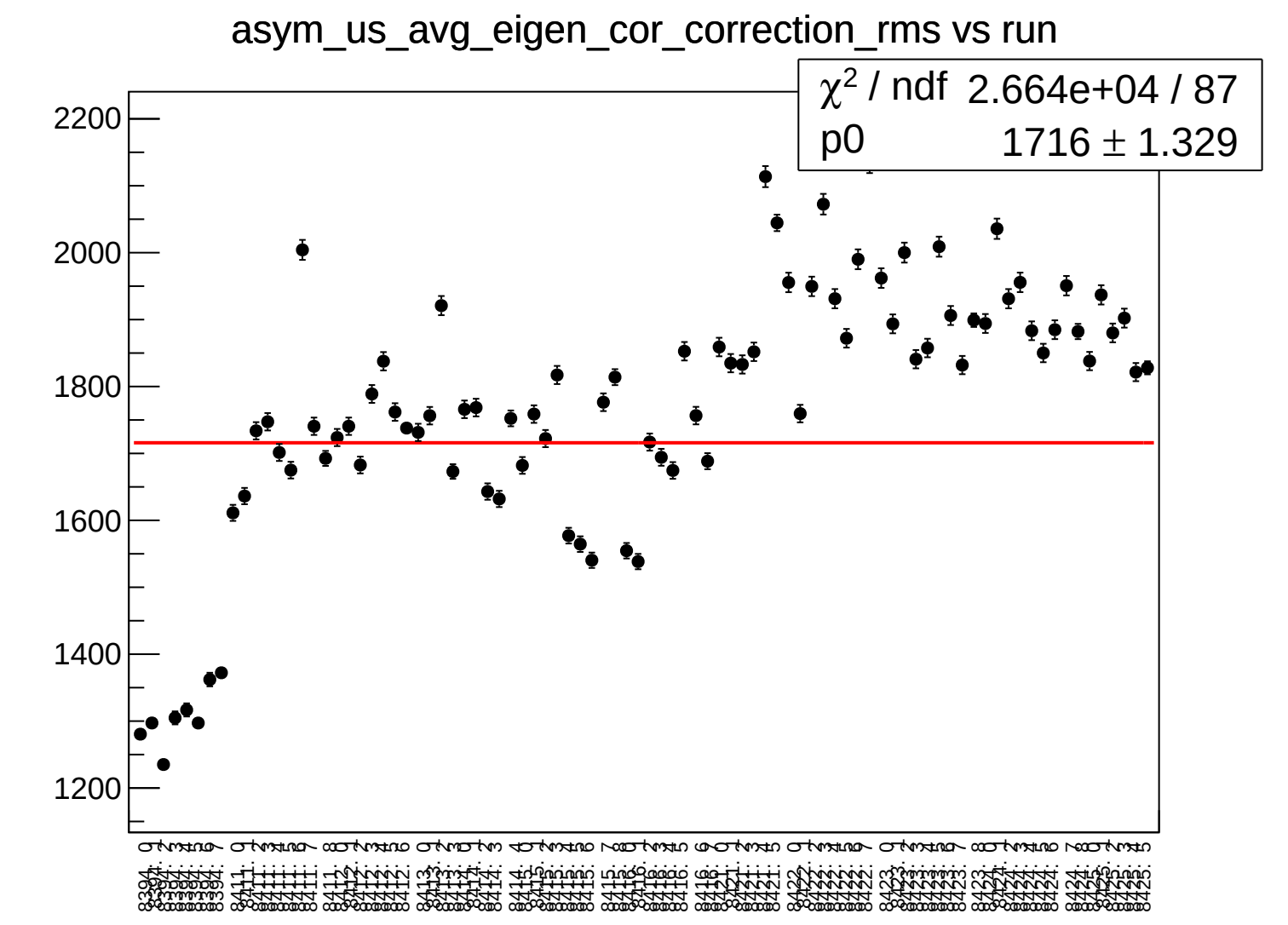
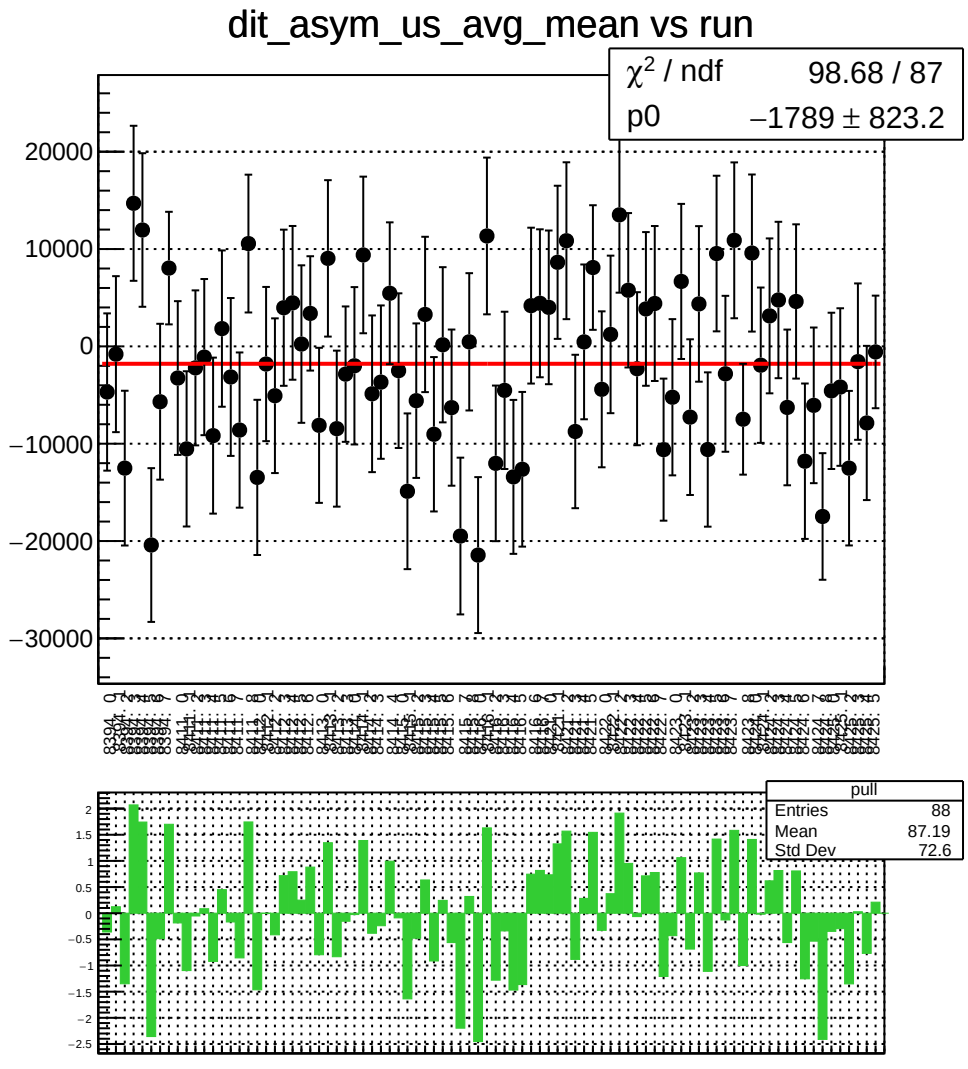
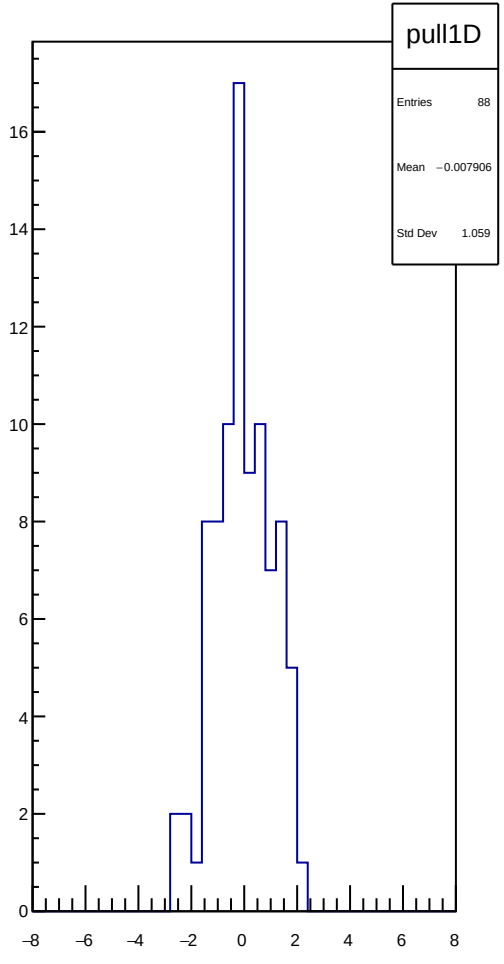
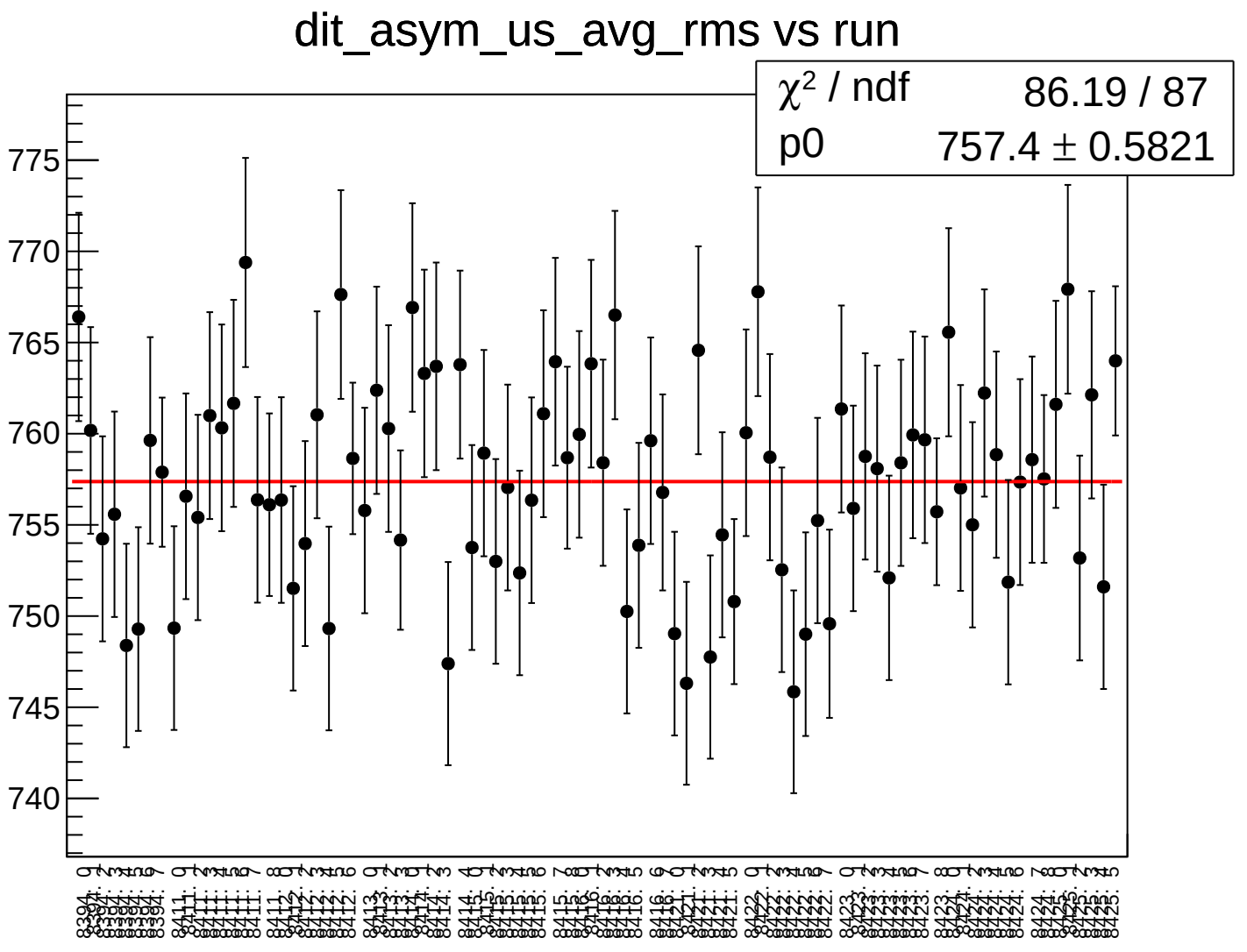
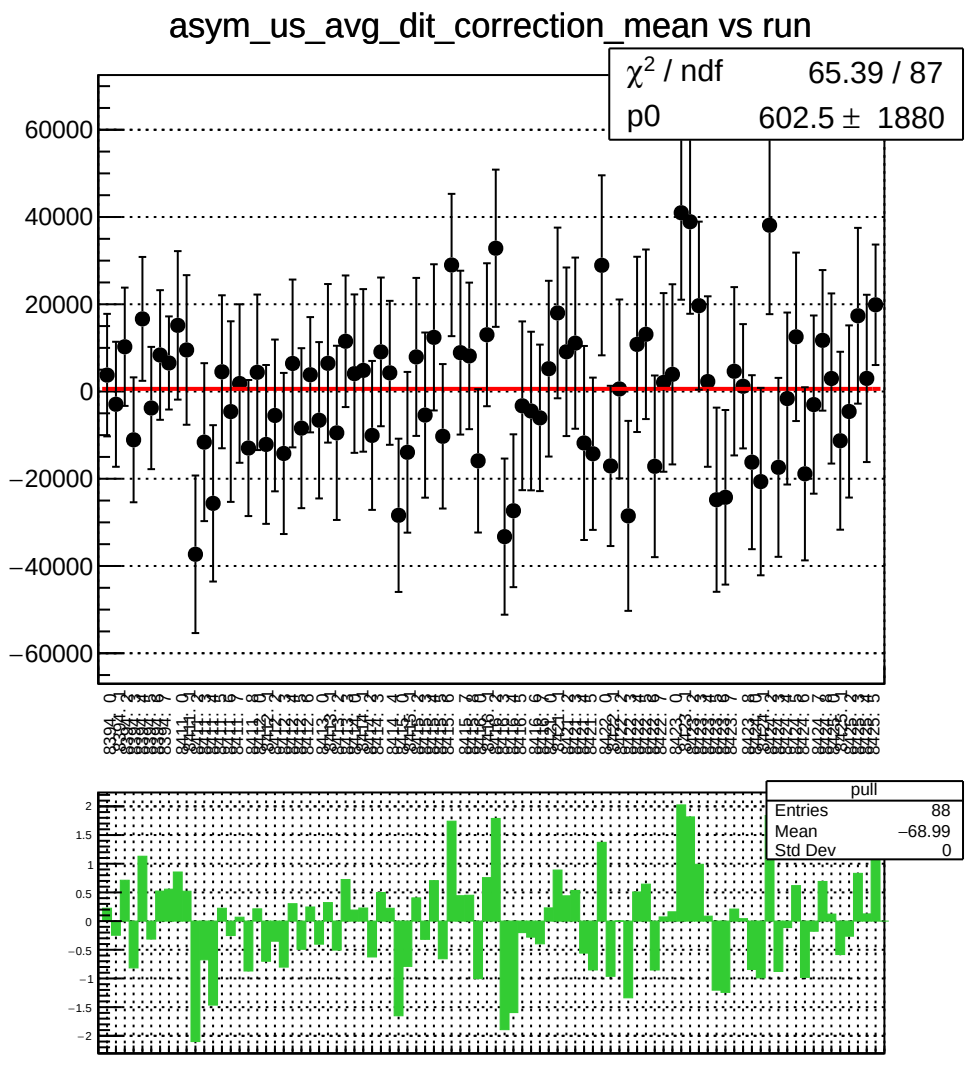
−8
−6
−4
−2
0
2
4
6
8

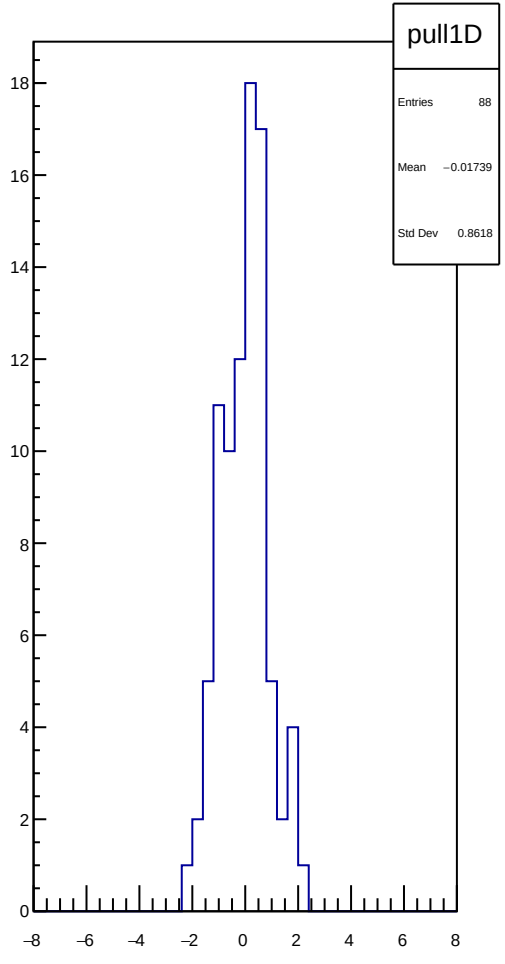

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.664e+04 / 87
p0 1716 ± 1.329
2200
2000
1800
1600
1400
1200

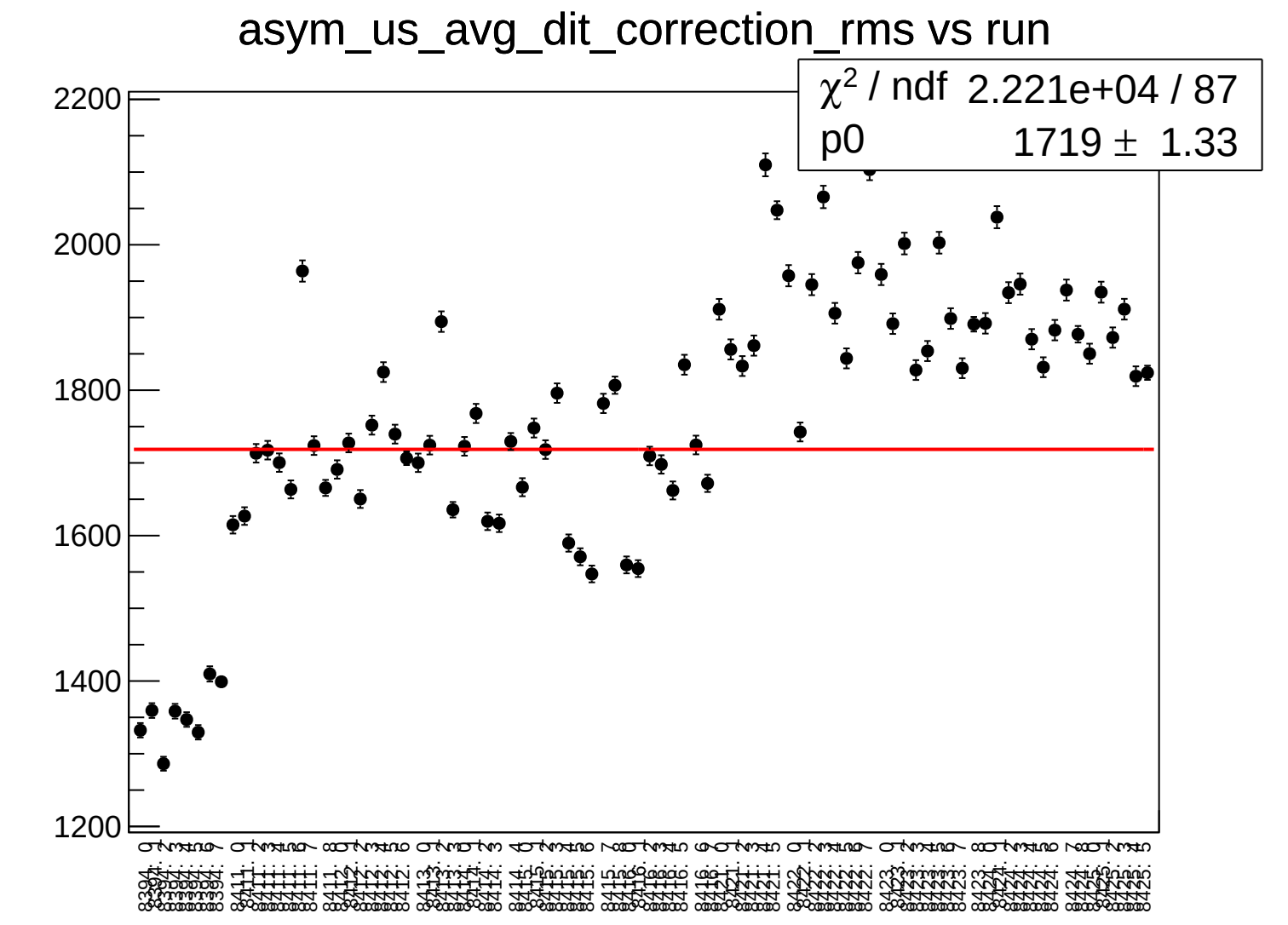

dit_asym_us_avg_mean vs run
χ² / ndf 98.68 / 87
p0 −1789 ± 823.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 87.19
Std Dev 72.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

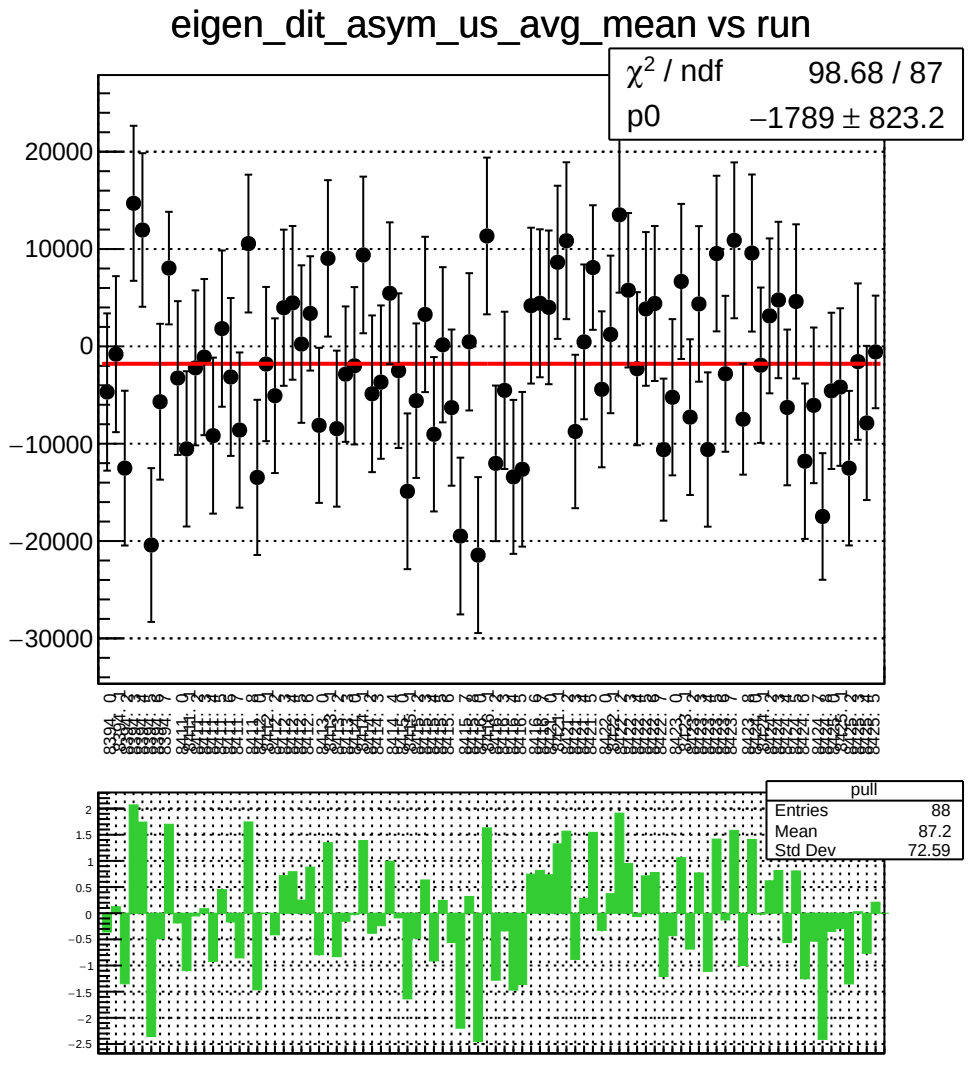

pull1D
Entries 88
Mean −0.007906
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

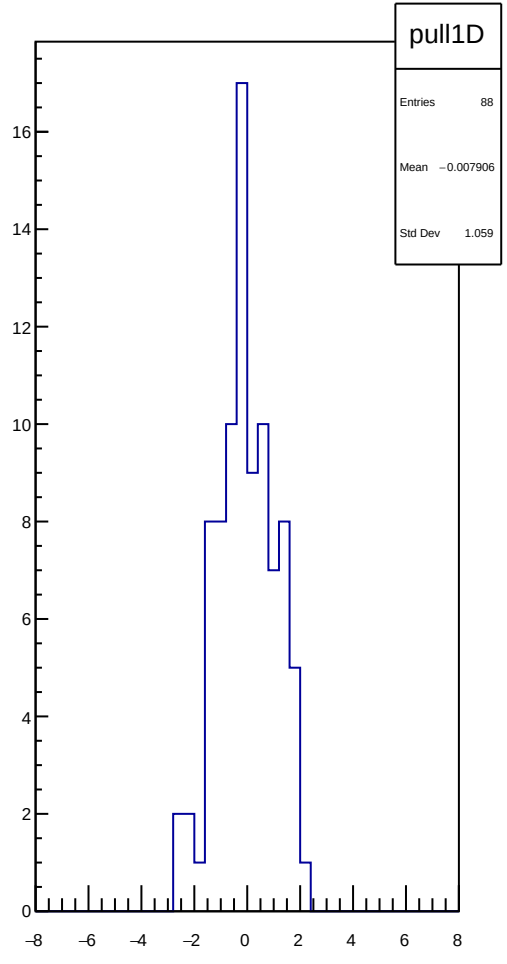

dit_asym_us_avg_rms vs run
χ² / ndf 86.19 / 87
p0 757.4 ± 0.5821
775
770
765
760
755
750
745
740

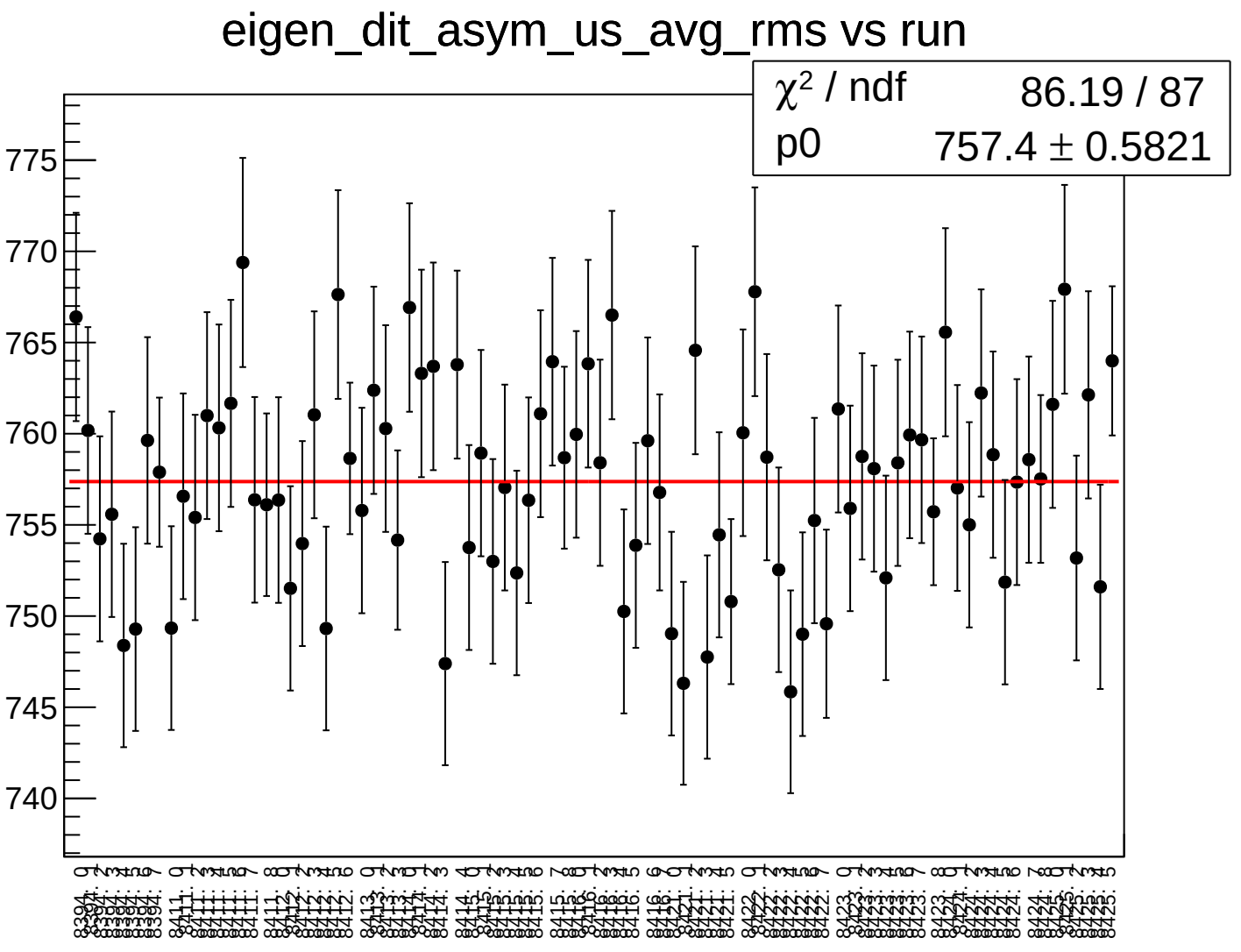

asym_us_avg_dit_correction_mean vs run
χ² / ndf 65.39 / 87
p0 602.5 ± 1880
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −68.99
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

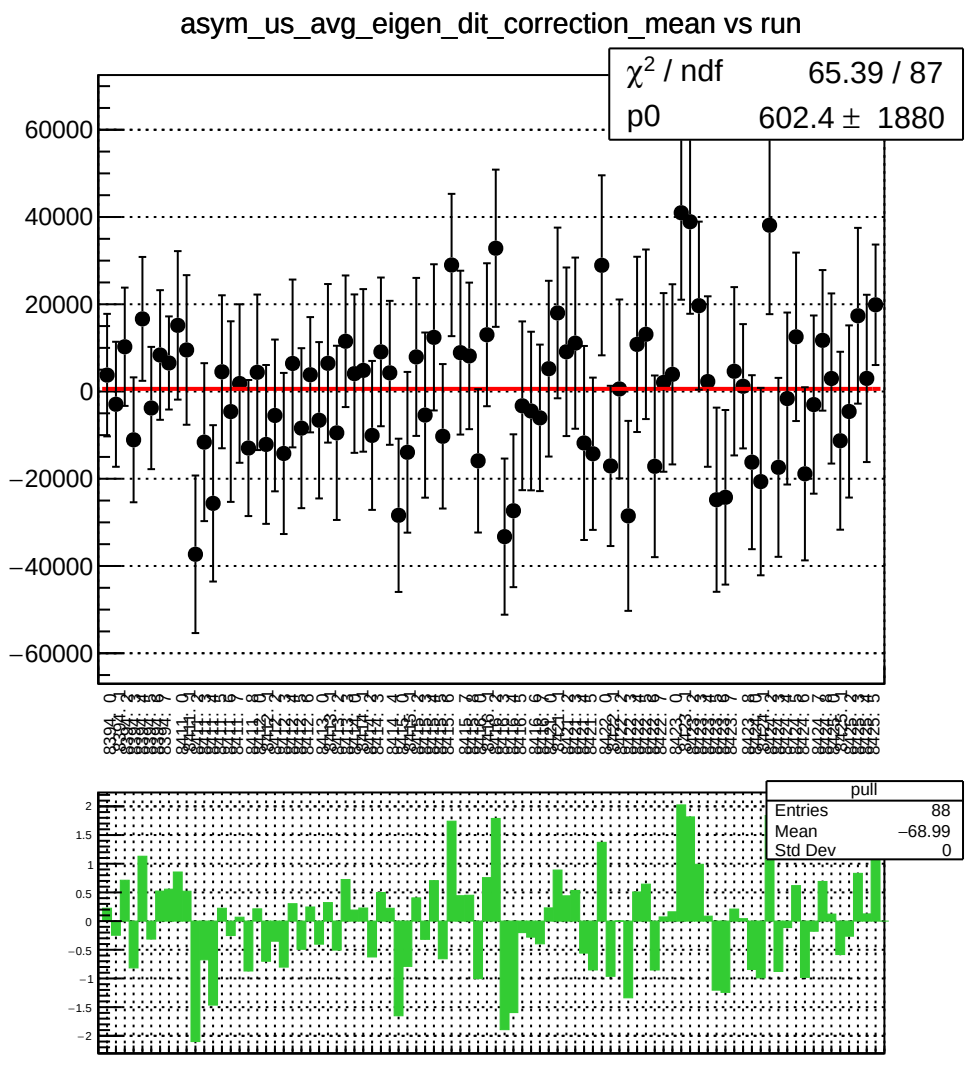

pull1D
Entries 88
Mean −0.01739
Std Dev 0.8618
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

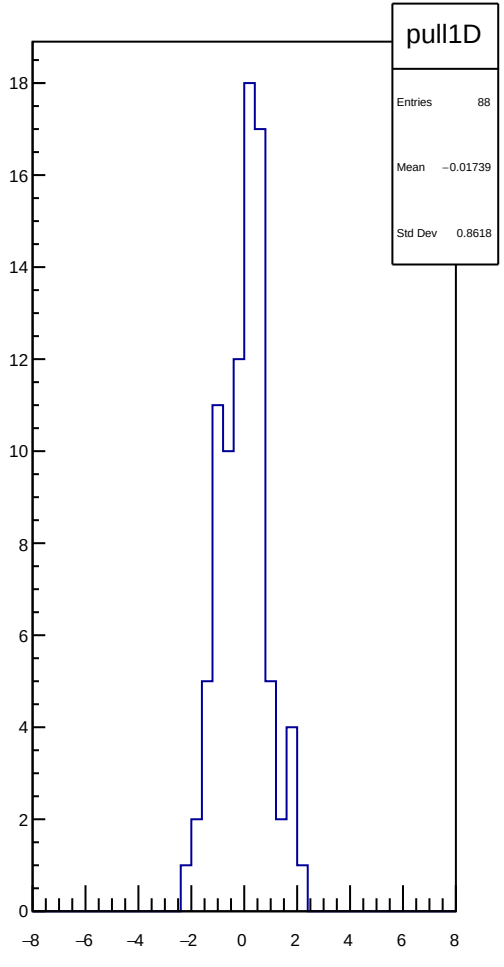

asym_us_avg_dit_correction_rms vs run
χ² / ndf 2.221e+04 / 87
p0 1719 ± 1.33
2200
2000
1800
1600
1400
1200


eigen_dit_asym_us_avg_mean vs run
χ² / ndf 98.68 / 87
p0 −1789 ± 823.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 87.2
Std Dev 72.59
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 88
Mean −0.007906
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_us_avg_rms vs run
χ² / ndf 86.19 / 87
p0 757.4 ± 0.5821
775
770
765
760
755
750
745
740


asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 65.39 / 87
p0 602.4 ± 1880
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −68.99
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 88
Mean −0.01739
Std Dev 0.8618
18
16
14
12
10
8
6
4
2
0
−8
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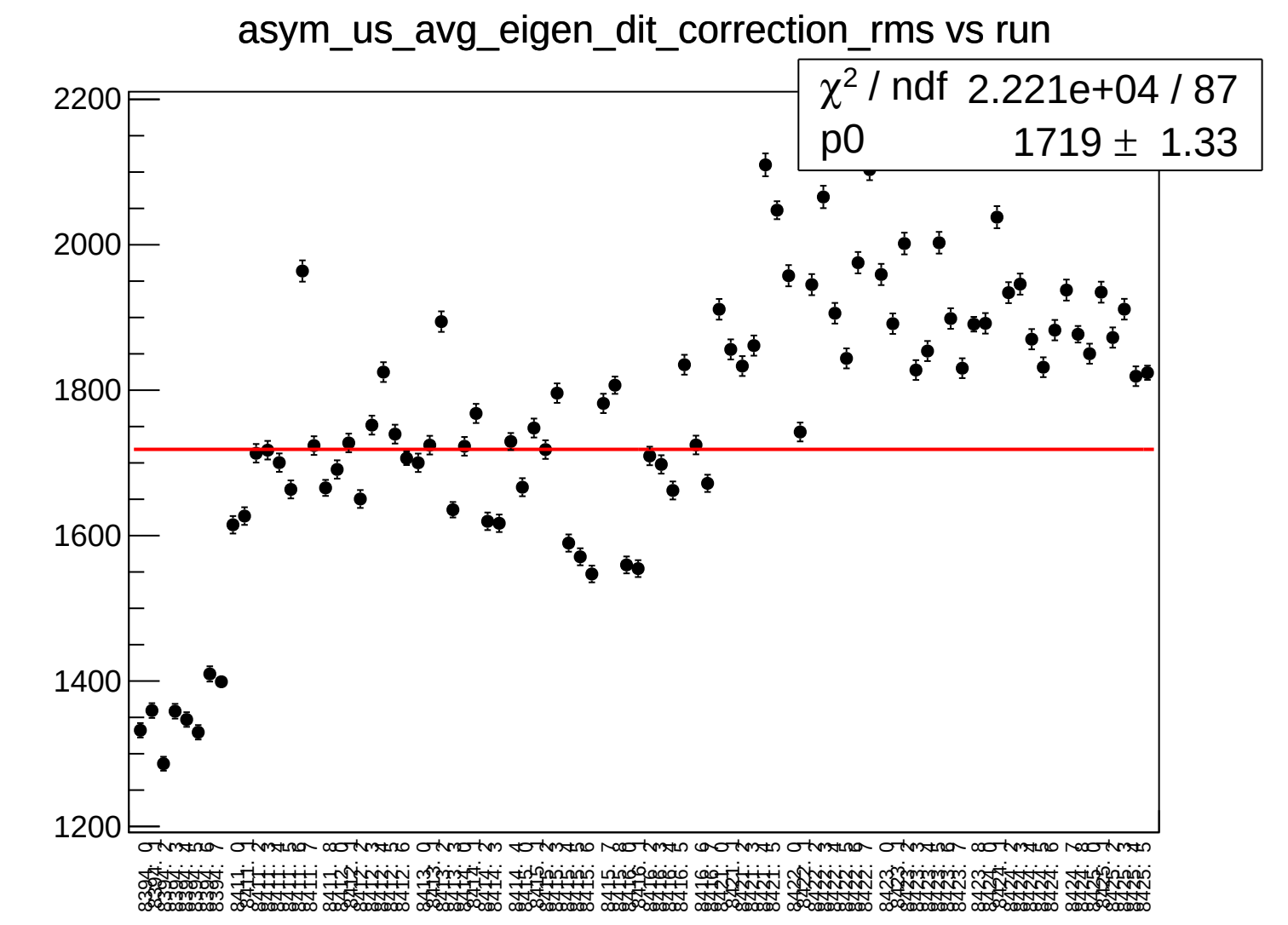
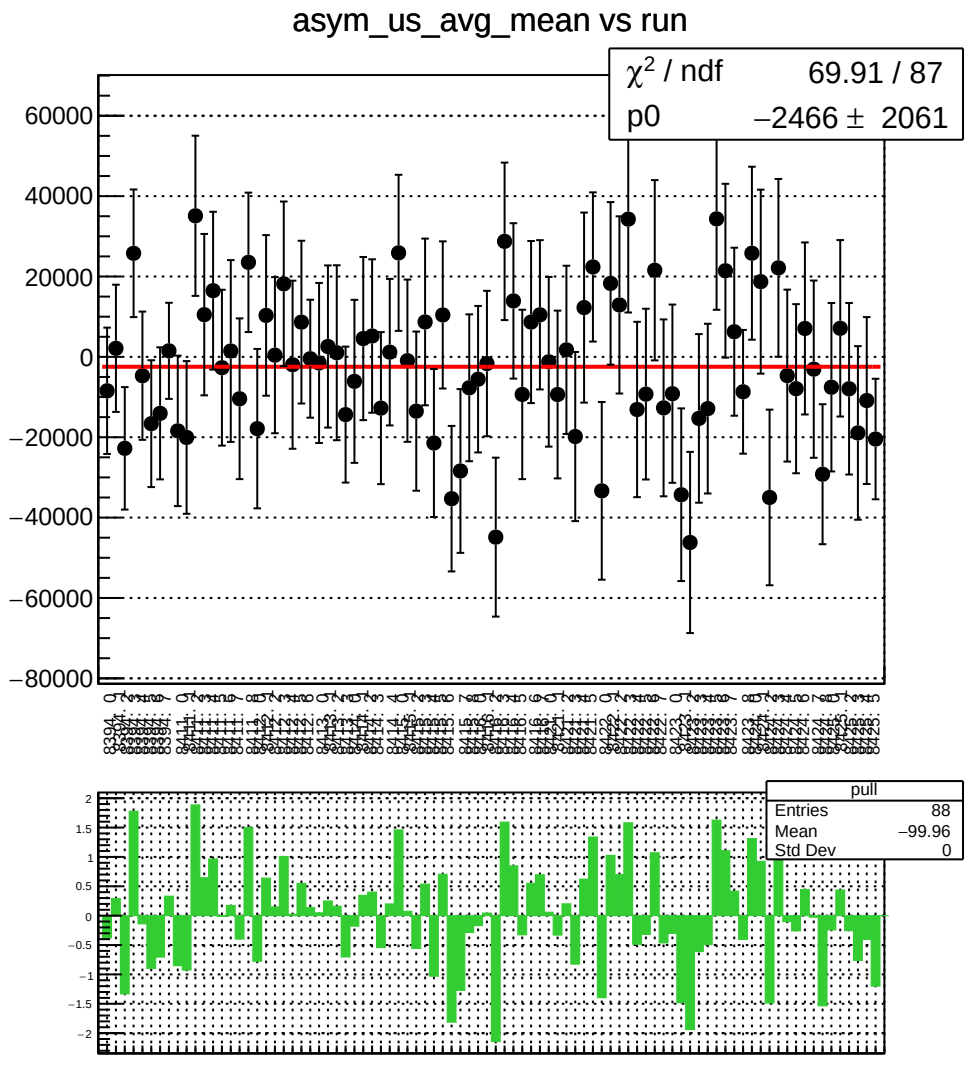
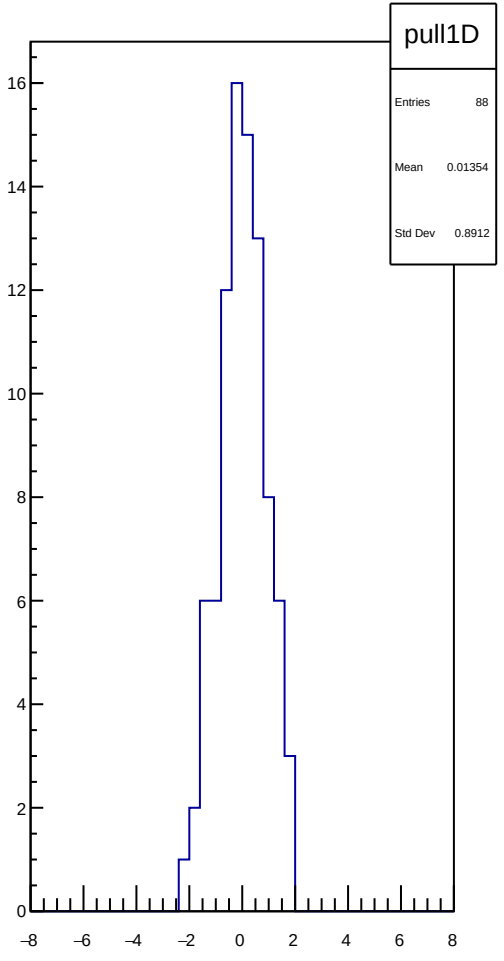
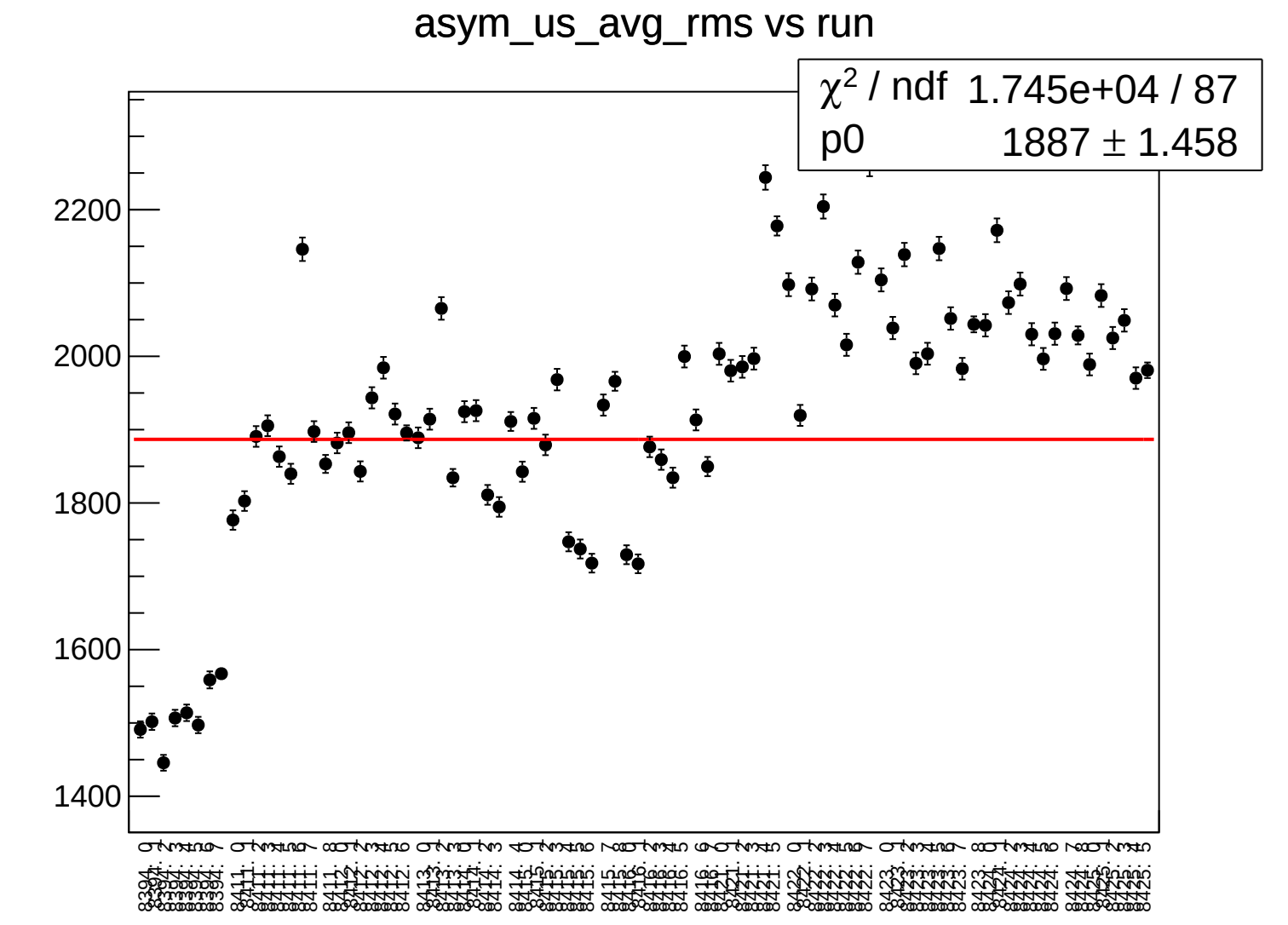
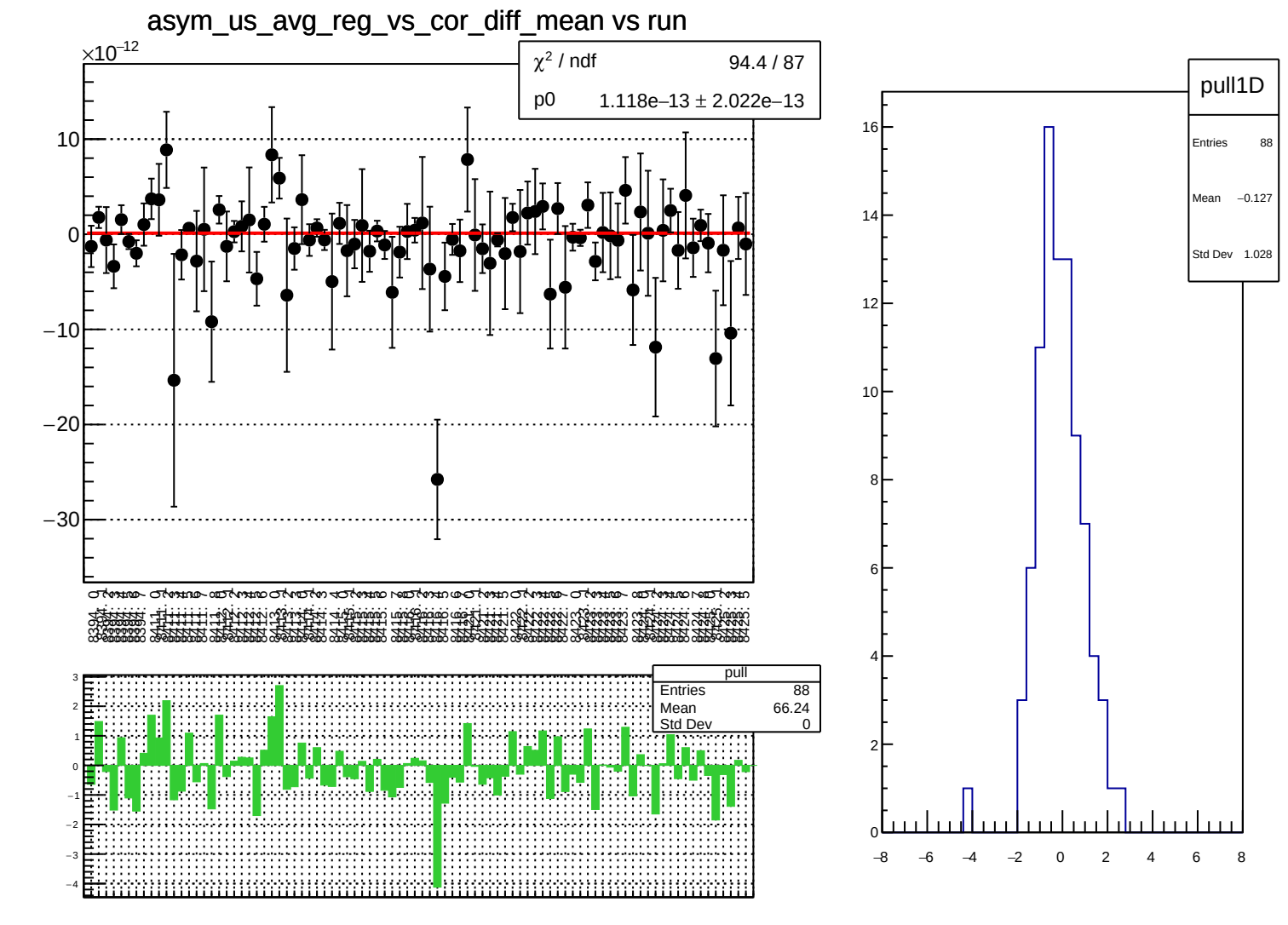
−4
−2
0
2
4
6
8

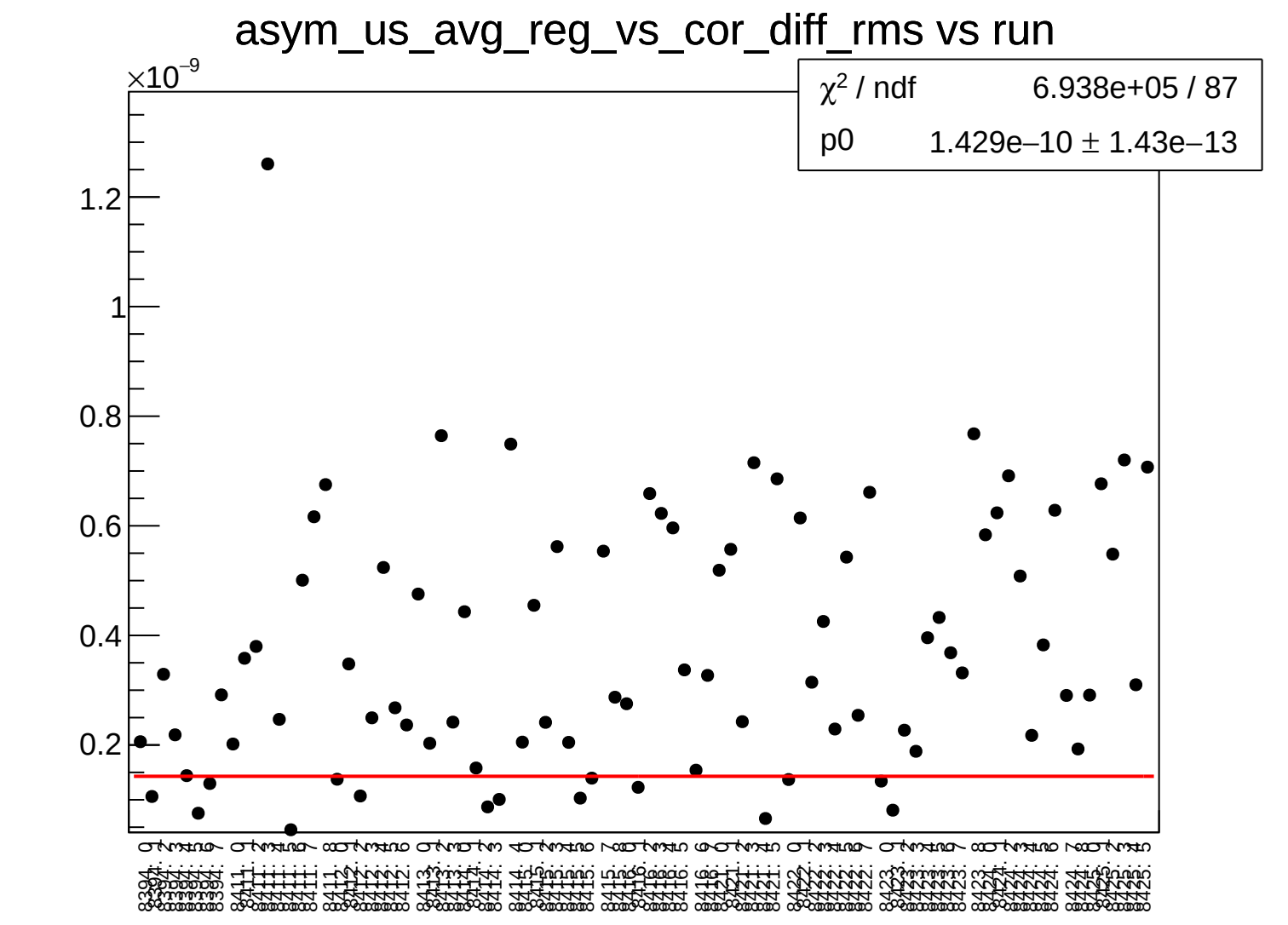

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.221e+04 / 87
p0 1719 ± 1.33
2200
2000
1800
1600
1400
1200

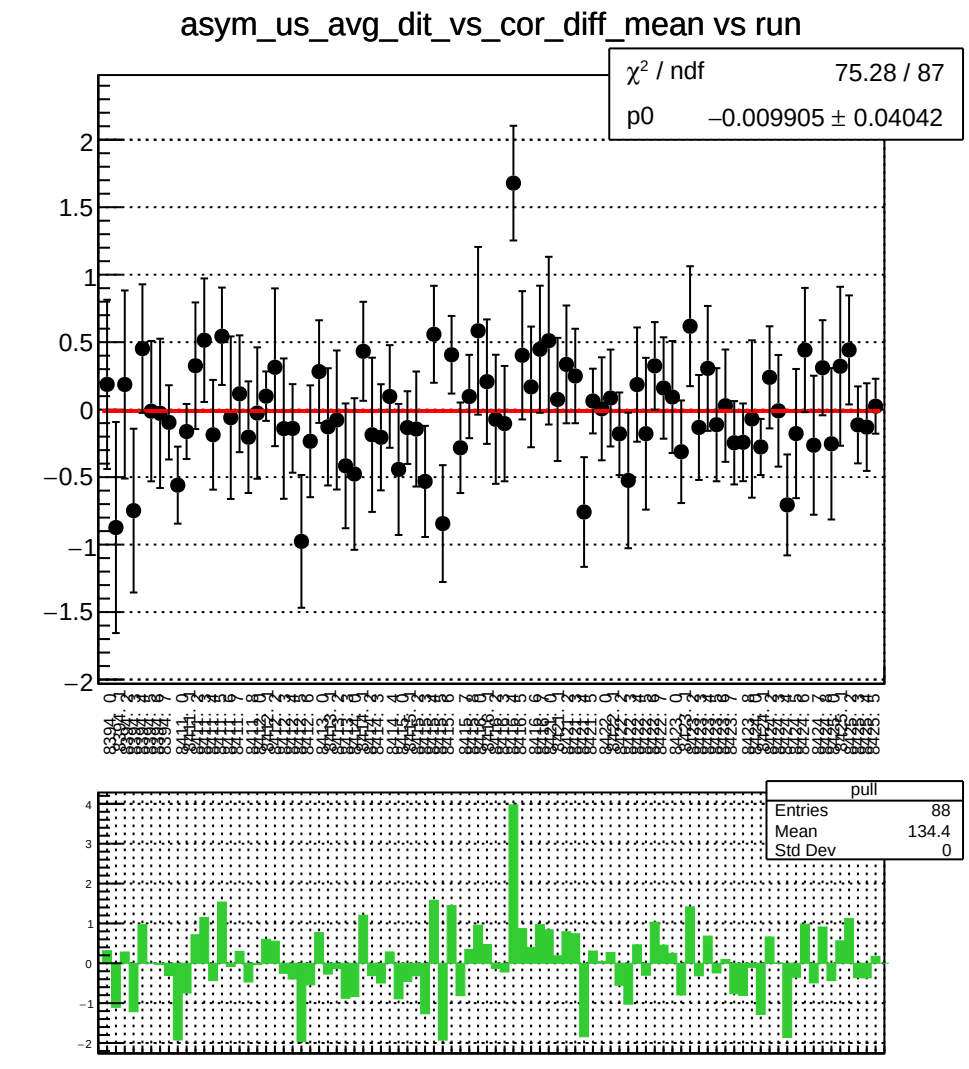

asym_us_avg_mean vs run
χ² / ndf 69.91 / 87
p0 −2466 ± 2061
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −99.96
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

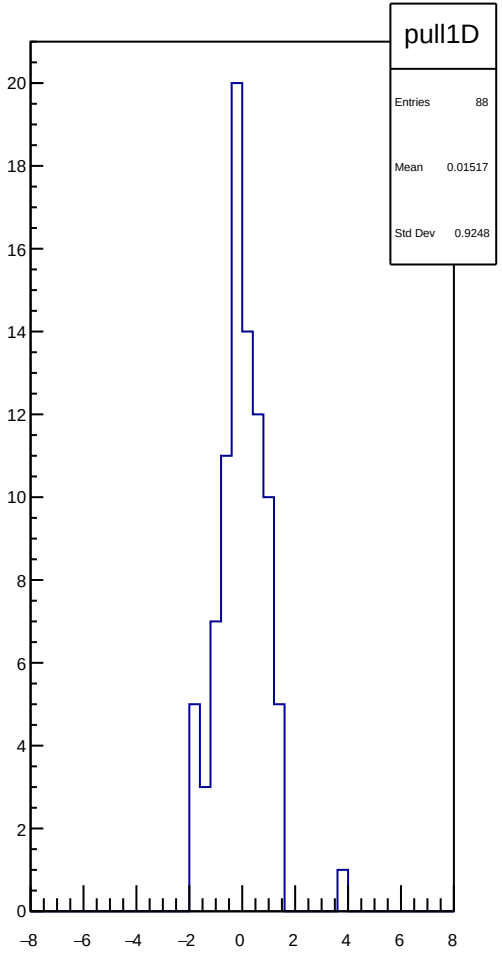

pull1D
Entries 88
Mean 0.01354
Std Dev 0.8912
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

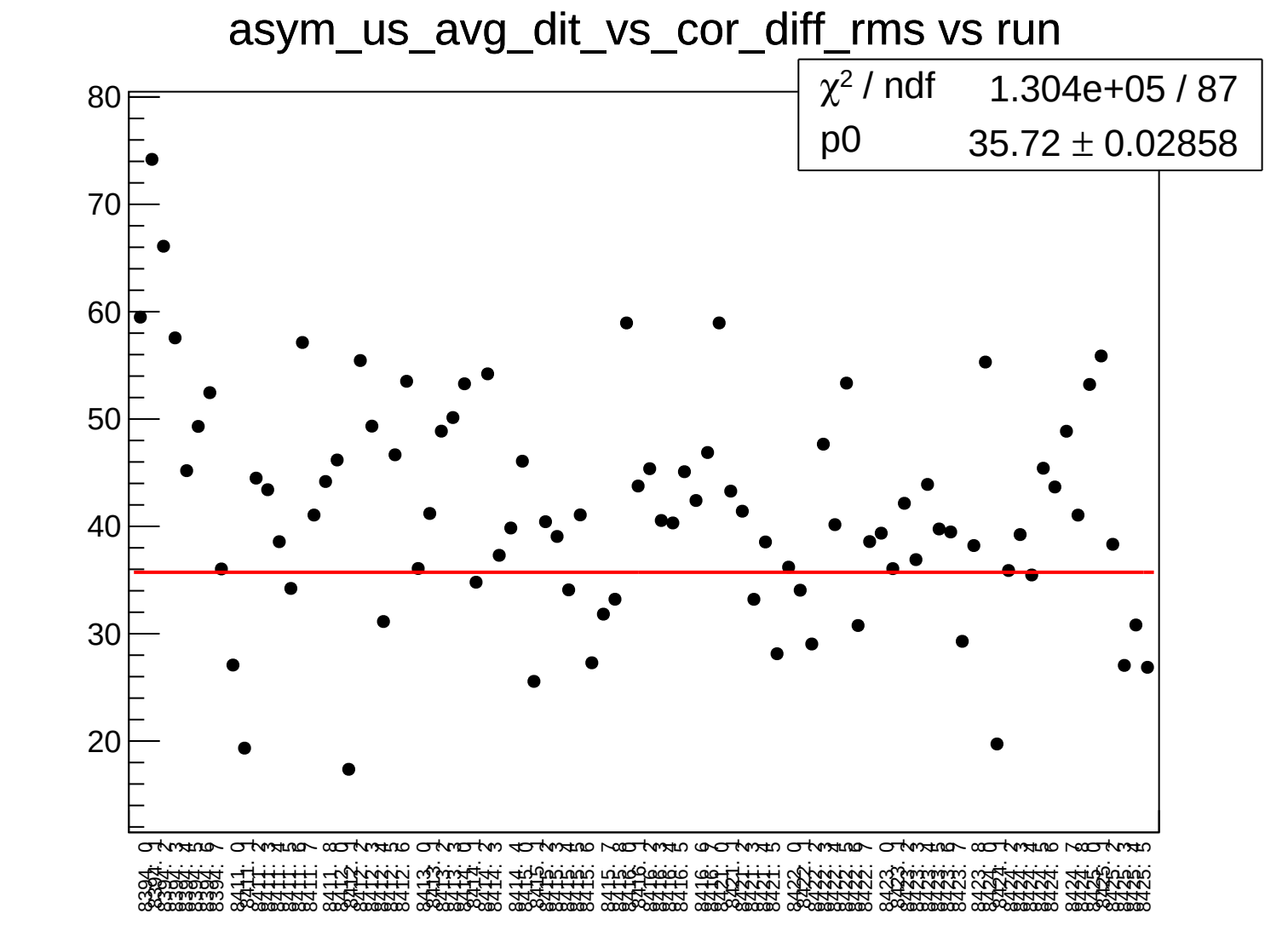

asym_us_avg_rms vs run
χ^2 / ndf 1.745e+04 / 87
p0 1887 ± 1.458
2200
2000
1800
1600
1400

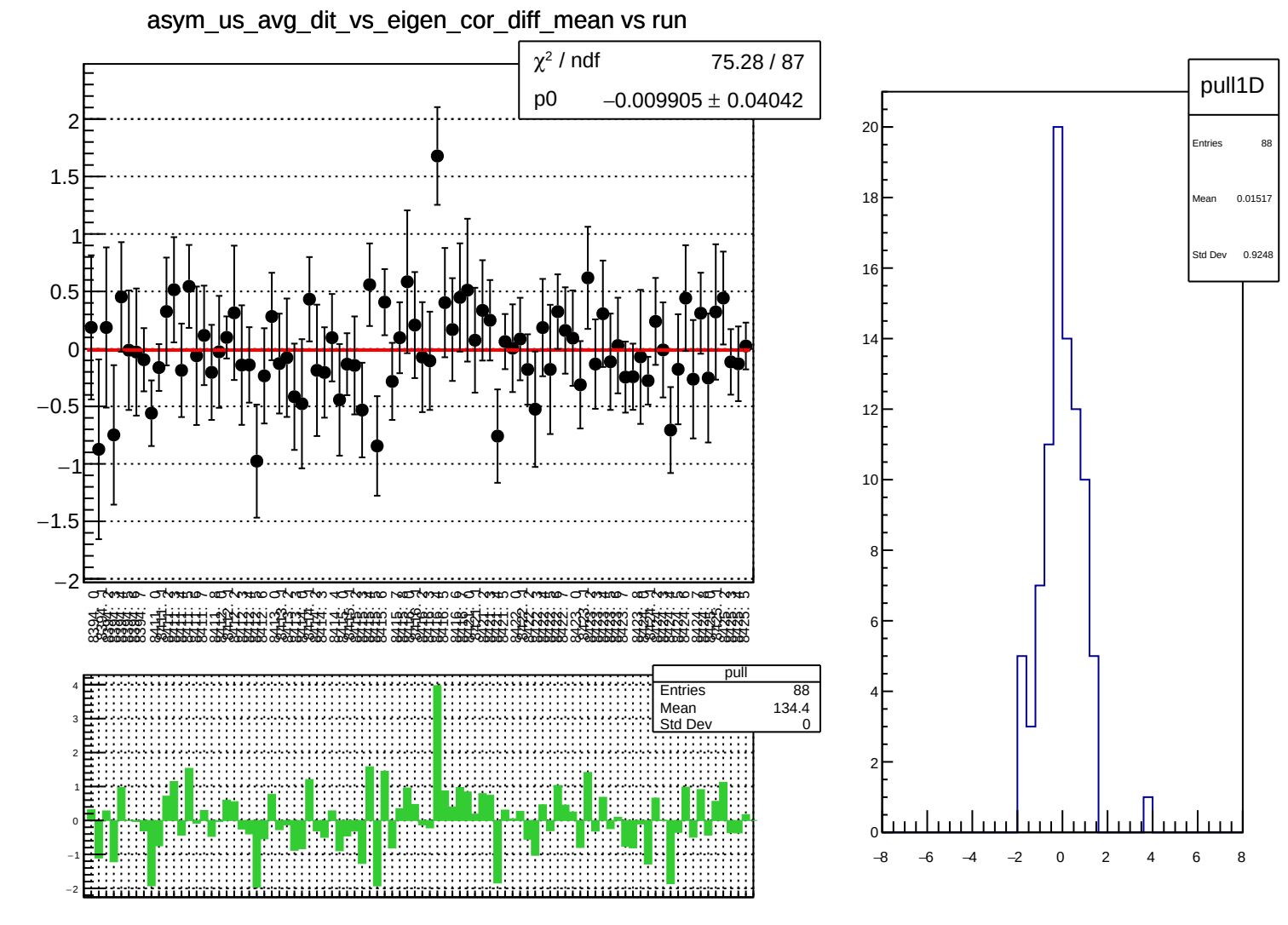

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.4 / 87
p0 1.118e−13 ± 2.022e−13
10
0
−10
−20
−30
pull
Entries 88
Mean 66.24
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 88
Mean −0.127
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

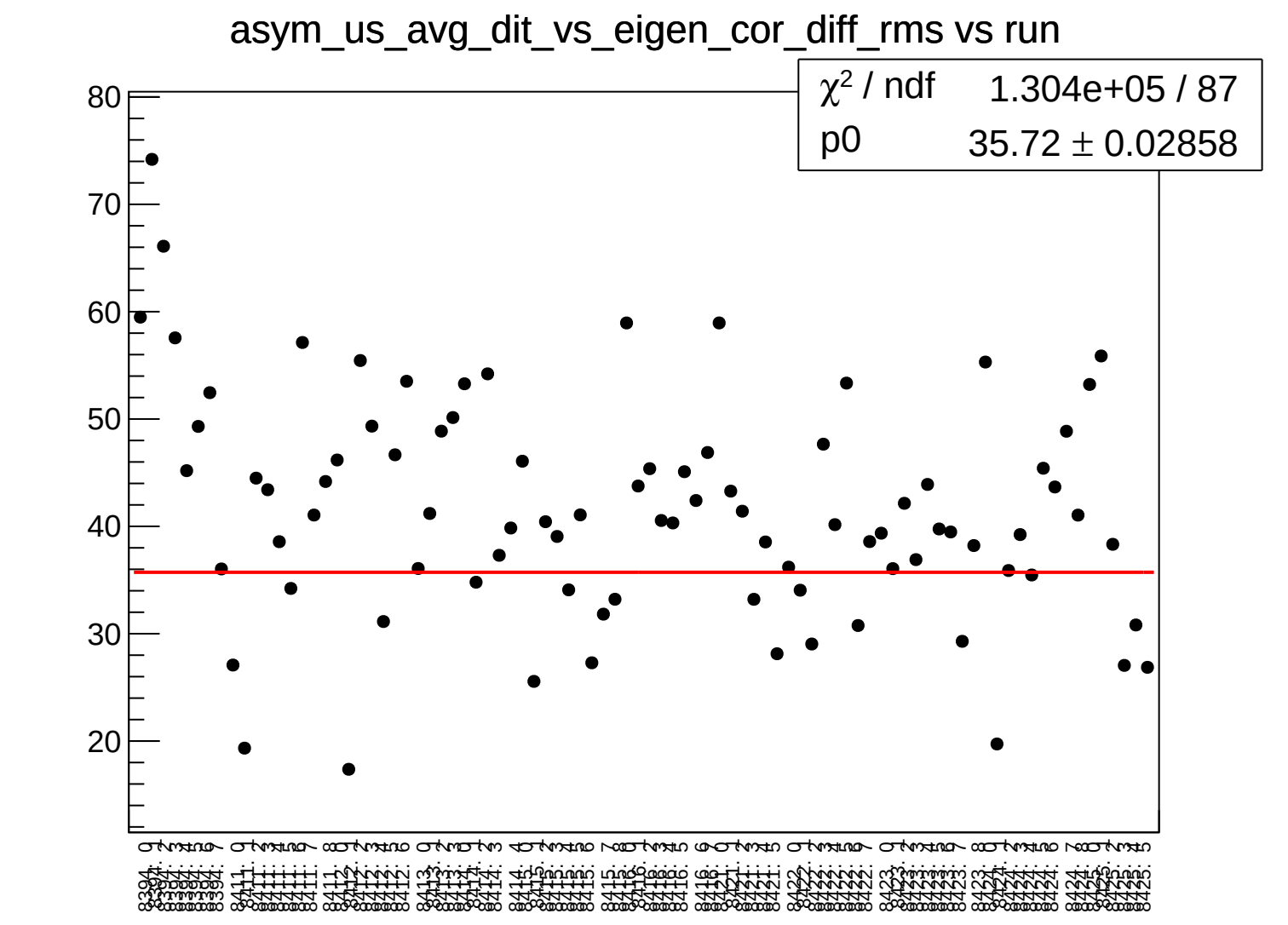

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.938e+05 / 87
p0 1.429e−10 ± 1.43e−13
1.2
1
0.8
0.6
0.4
0.2

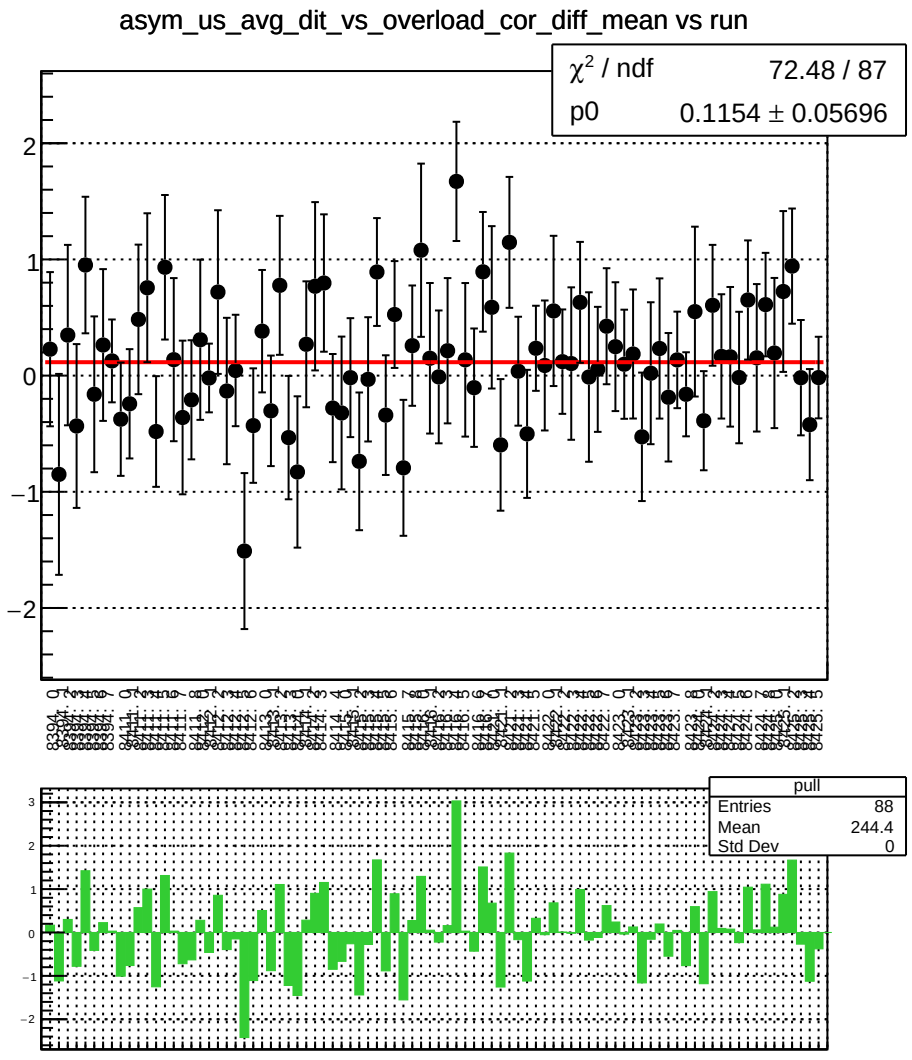

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.28 / 87
p0 −0.009905 ± 0.04042
pull
Entries 88
Mean 134.4
Std Dev 0

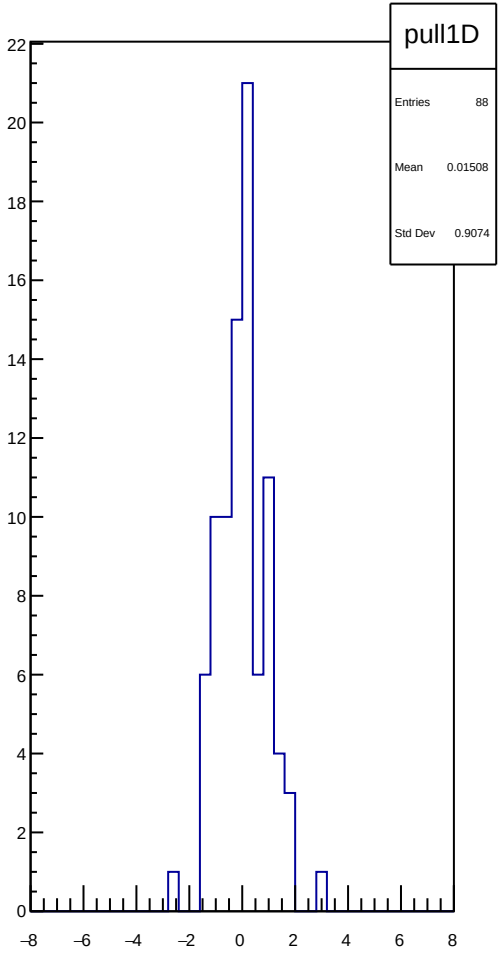

pull1D
Entries 88
Mean 0.01517
Std Dev 0.9248

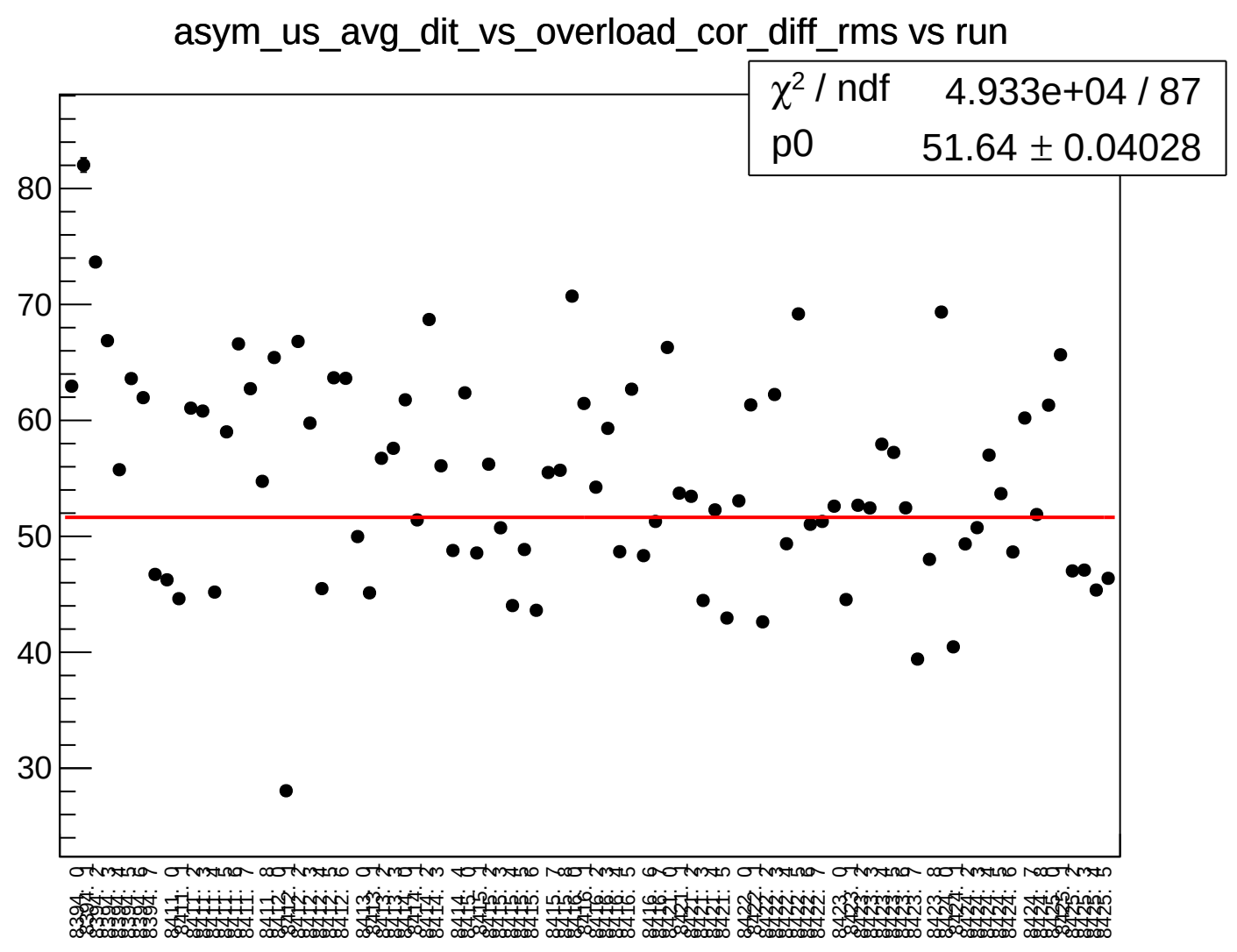

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.304e+05 / 87
p0 35.72 ± 0.02858
80
70
60
50
40
30
20

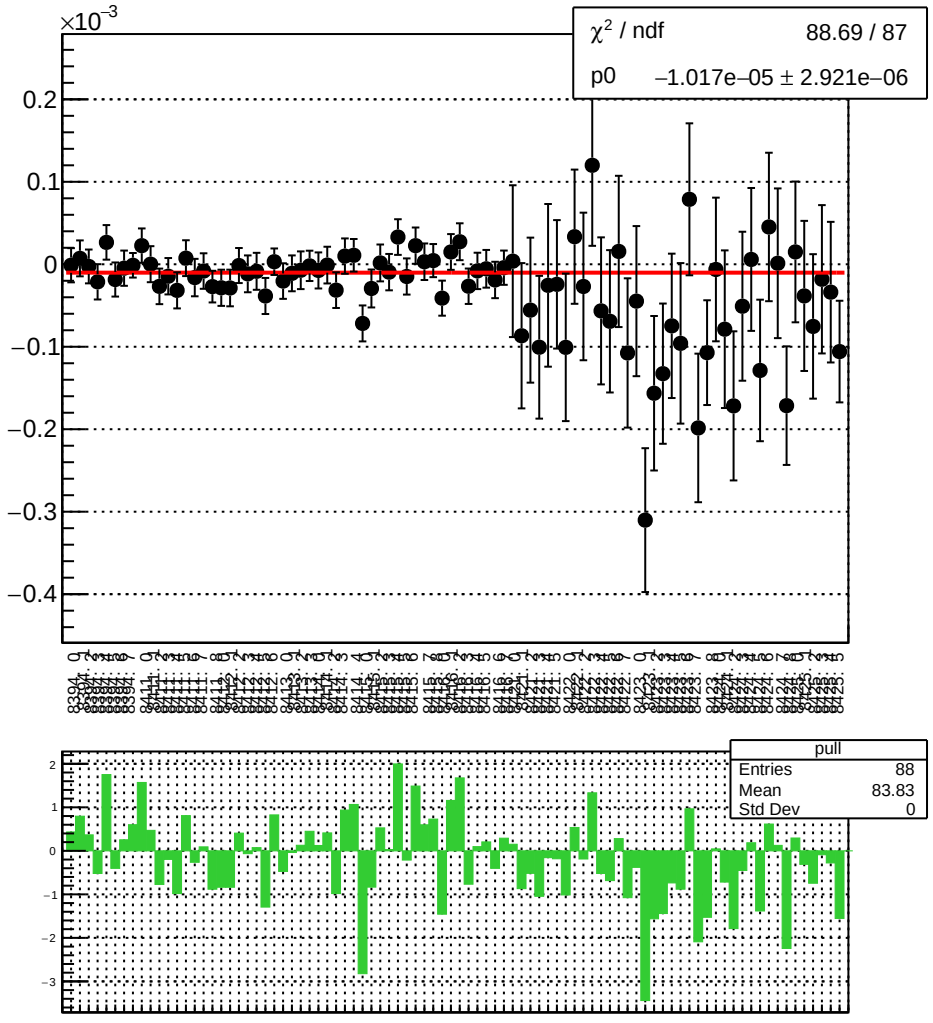

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.28 / 87
p0 −0.009905 ± 0.04042
pull
Entries 88
Mean 134.4
Std Dev 0
pull1D
Entries 88
Mean 0.01517
Std Dev 0.9248

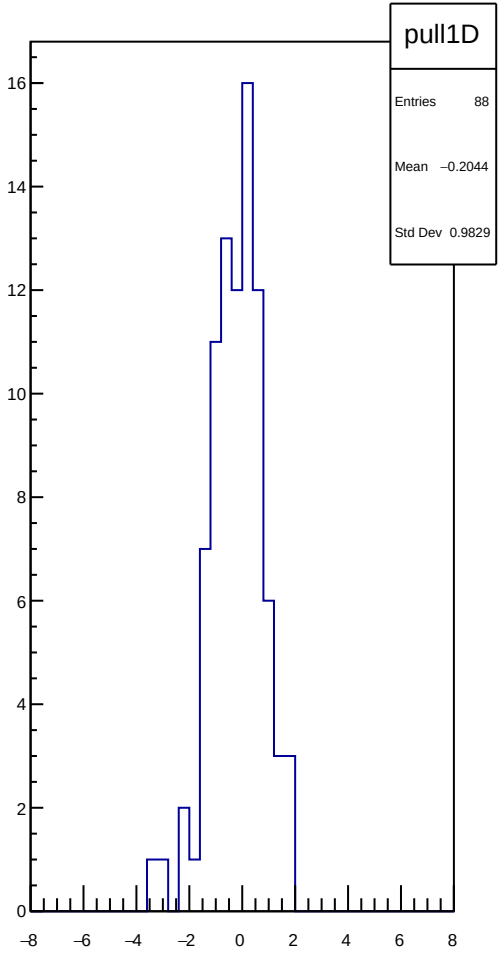

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.304e+05 / 87
p0 35.72 ± 0.02858
80
70
60
50
40
30
20

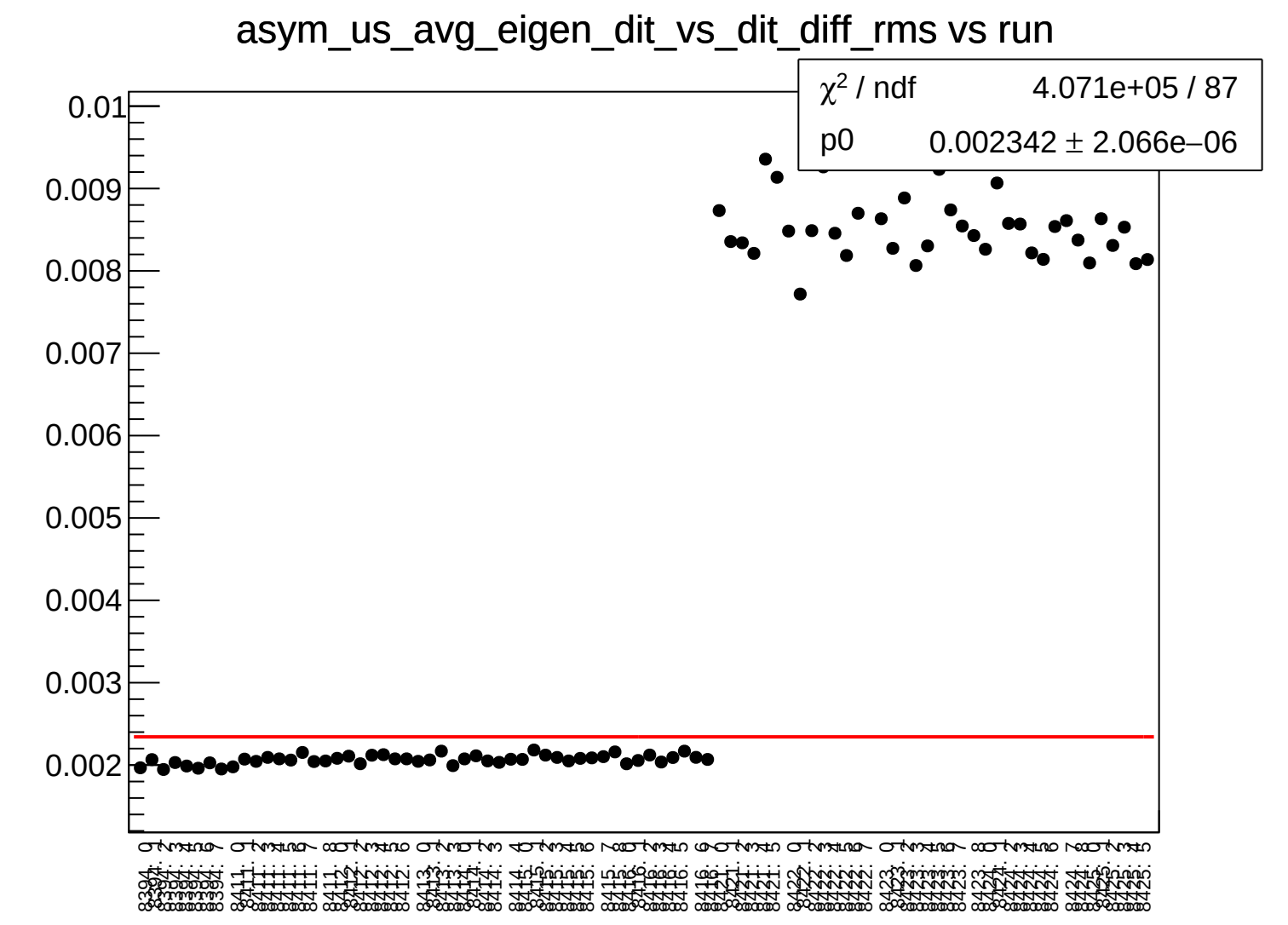

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 72.48 / 87
p0 0.1154 ± 0.05696
pull
Entries 88
Mean 244.4
Std Dev 0

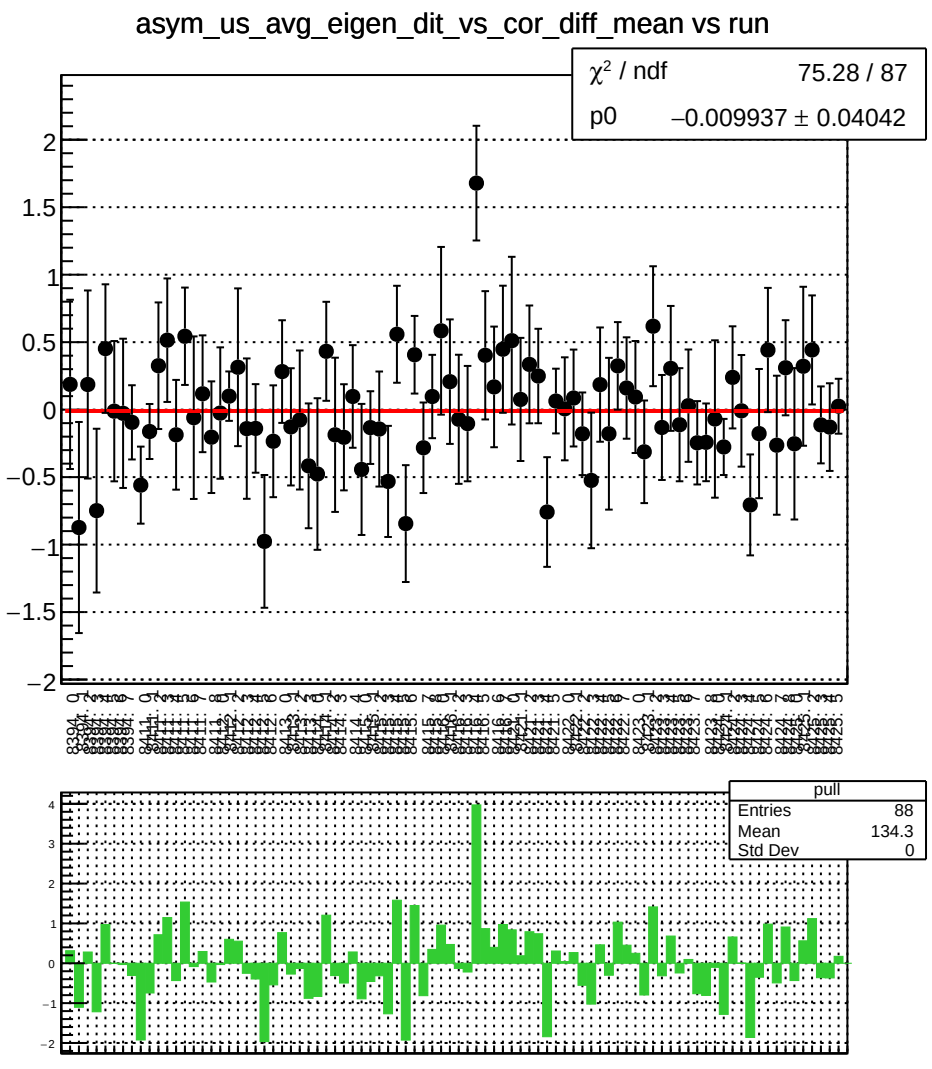

pull1D
Entries 88
Mean 0.01508
Std Dev 0.9074

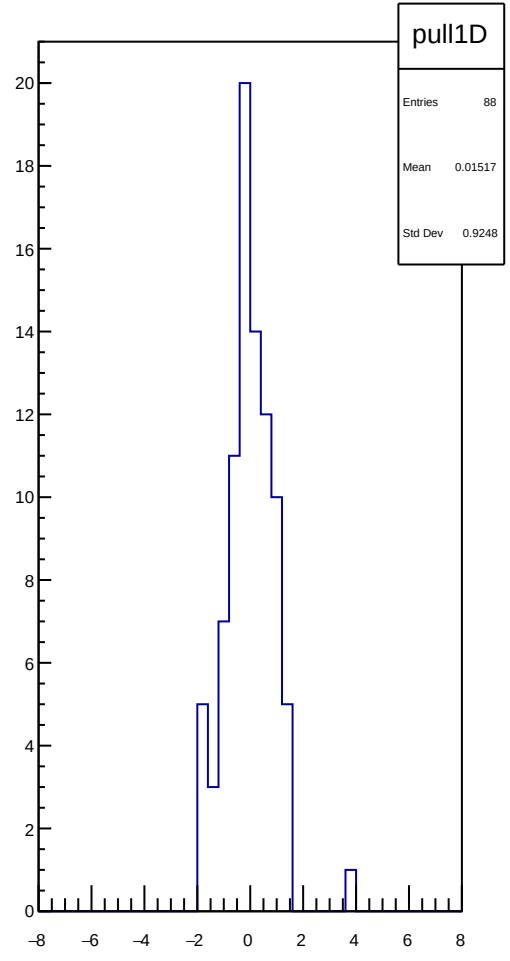

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.933e+04 / 87
p0 51.64 ± 0.04028
80
70
60
50
40
30

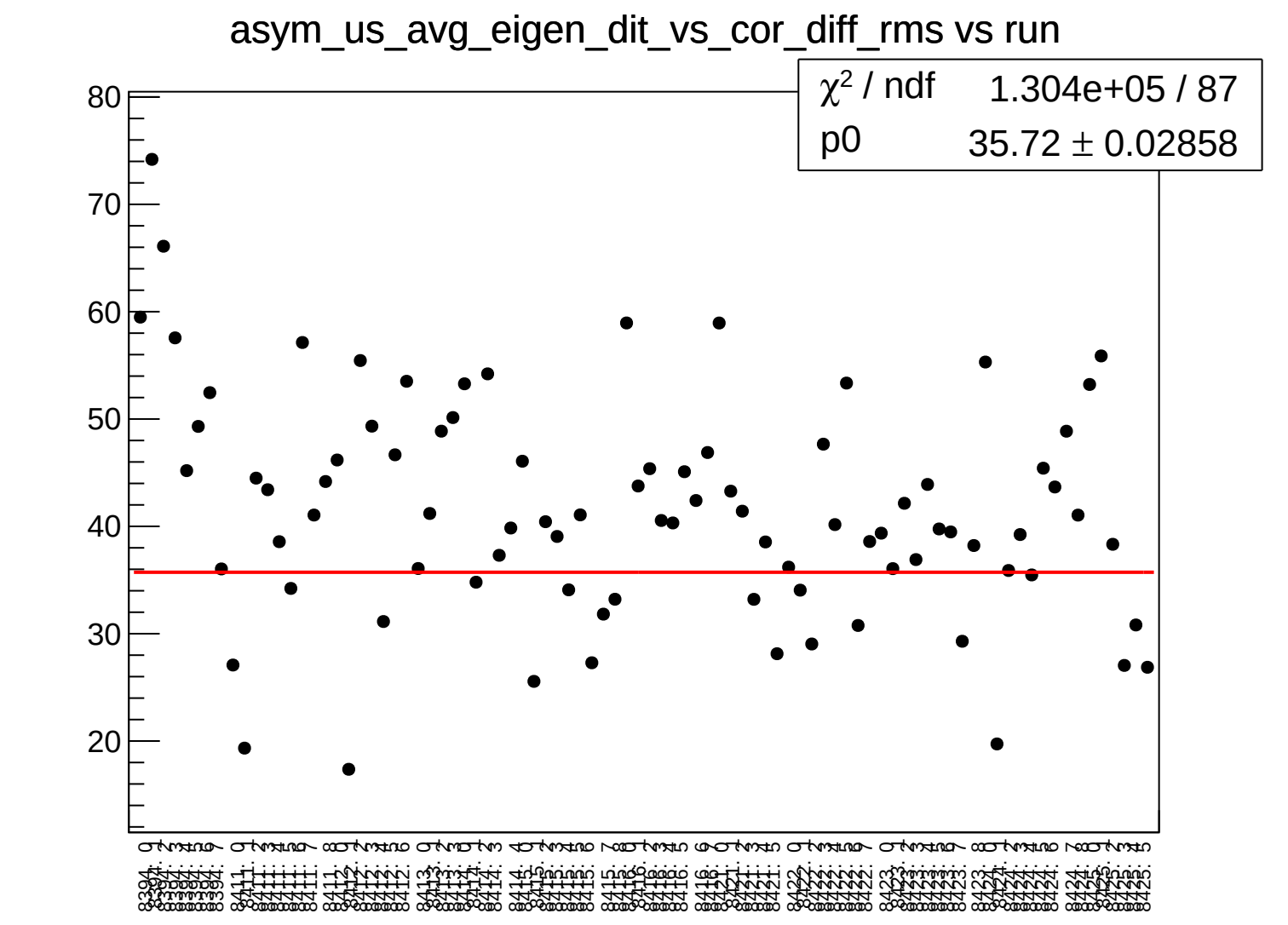

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.69 / 87
p0 −1.017e−05 ± 2.921e−06
pull
Entries 88
Mean 83.83
Std Dev 0

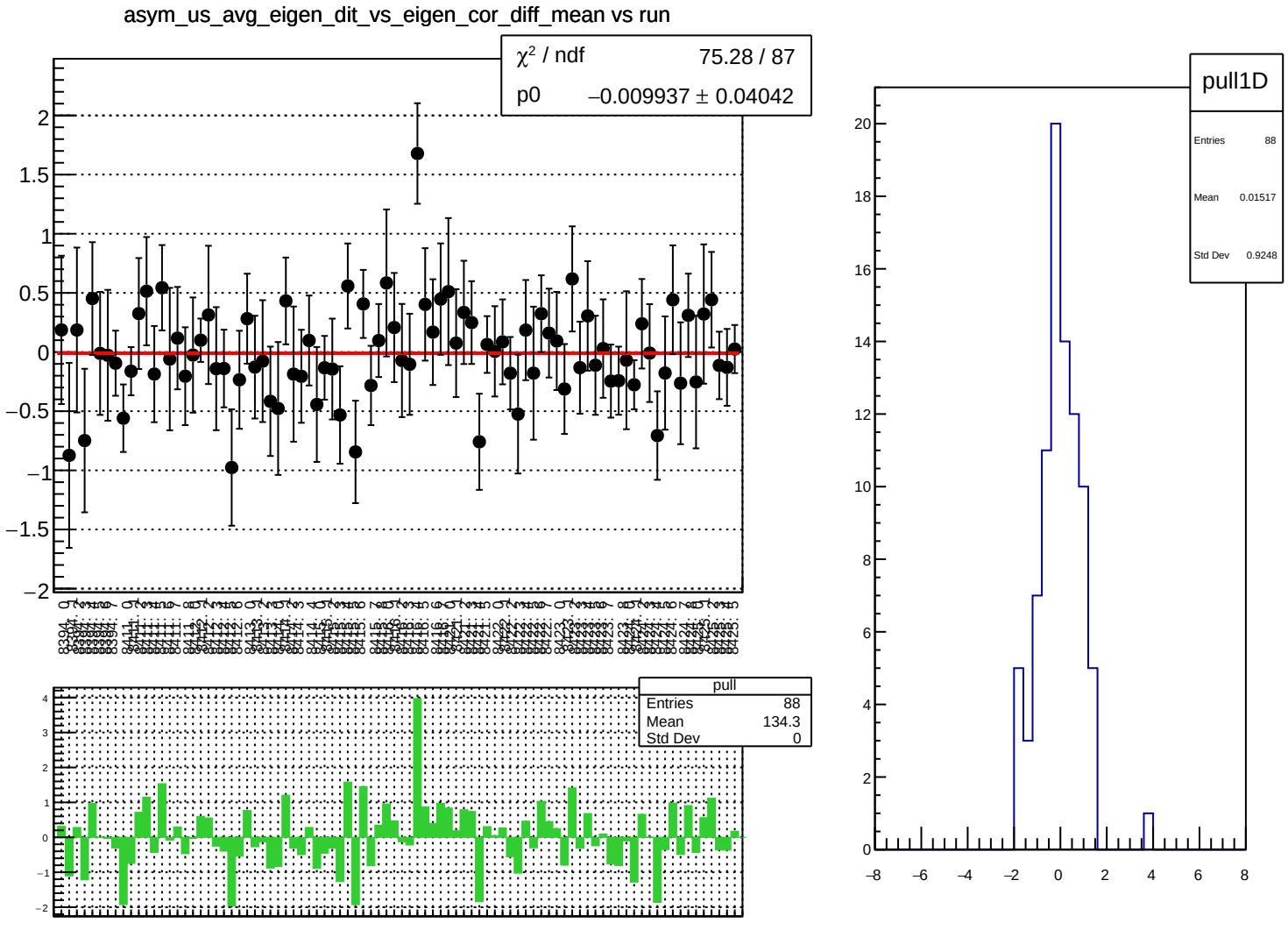

pull1D
Entries 88
Mean −0.2044
Std Dev 0.9829

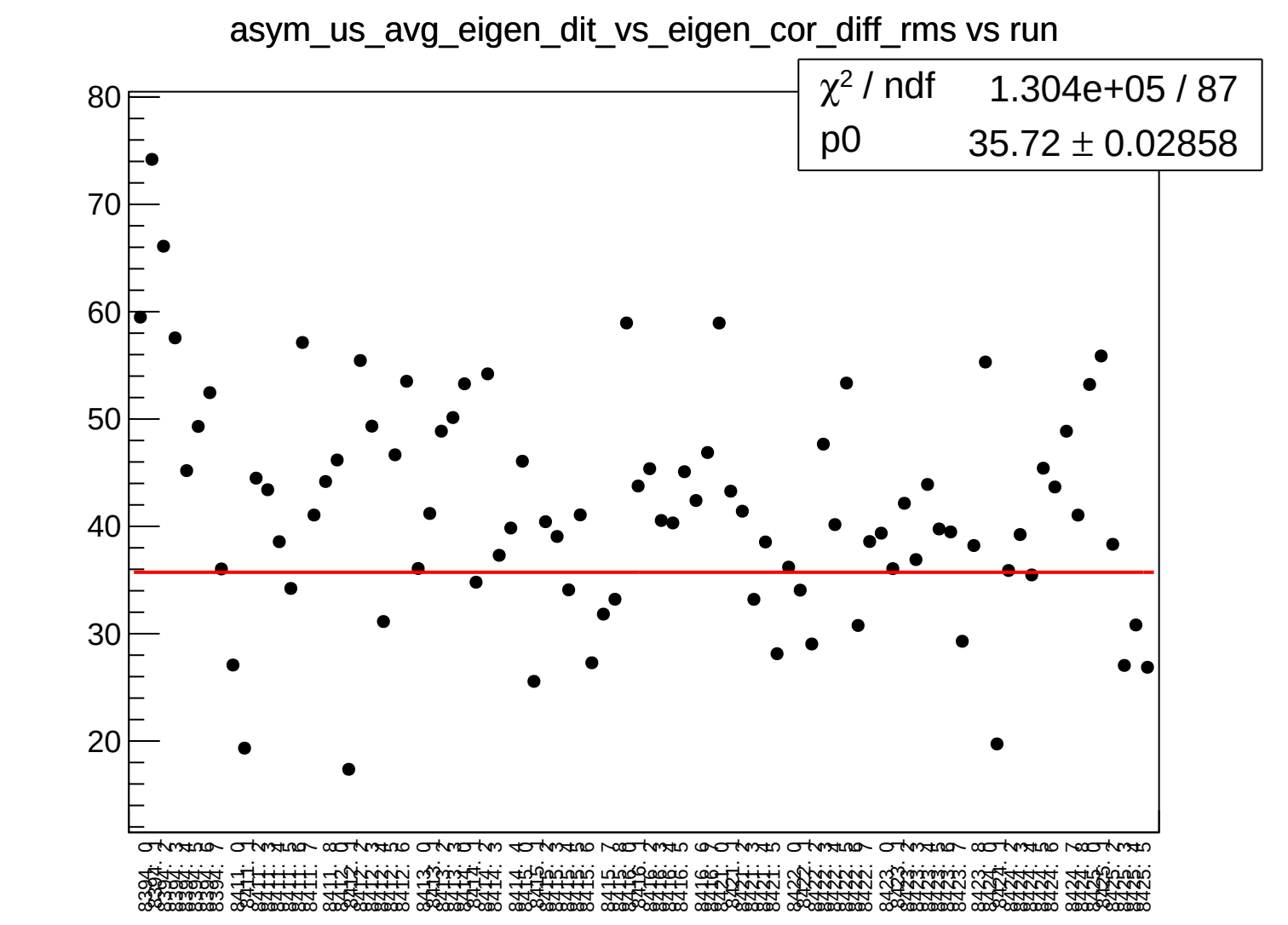

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.071e+05 / 87
p0 0.002342 ± 2.066e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

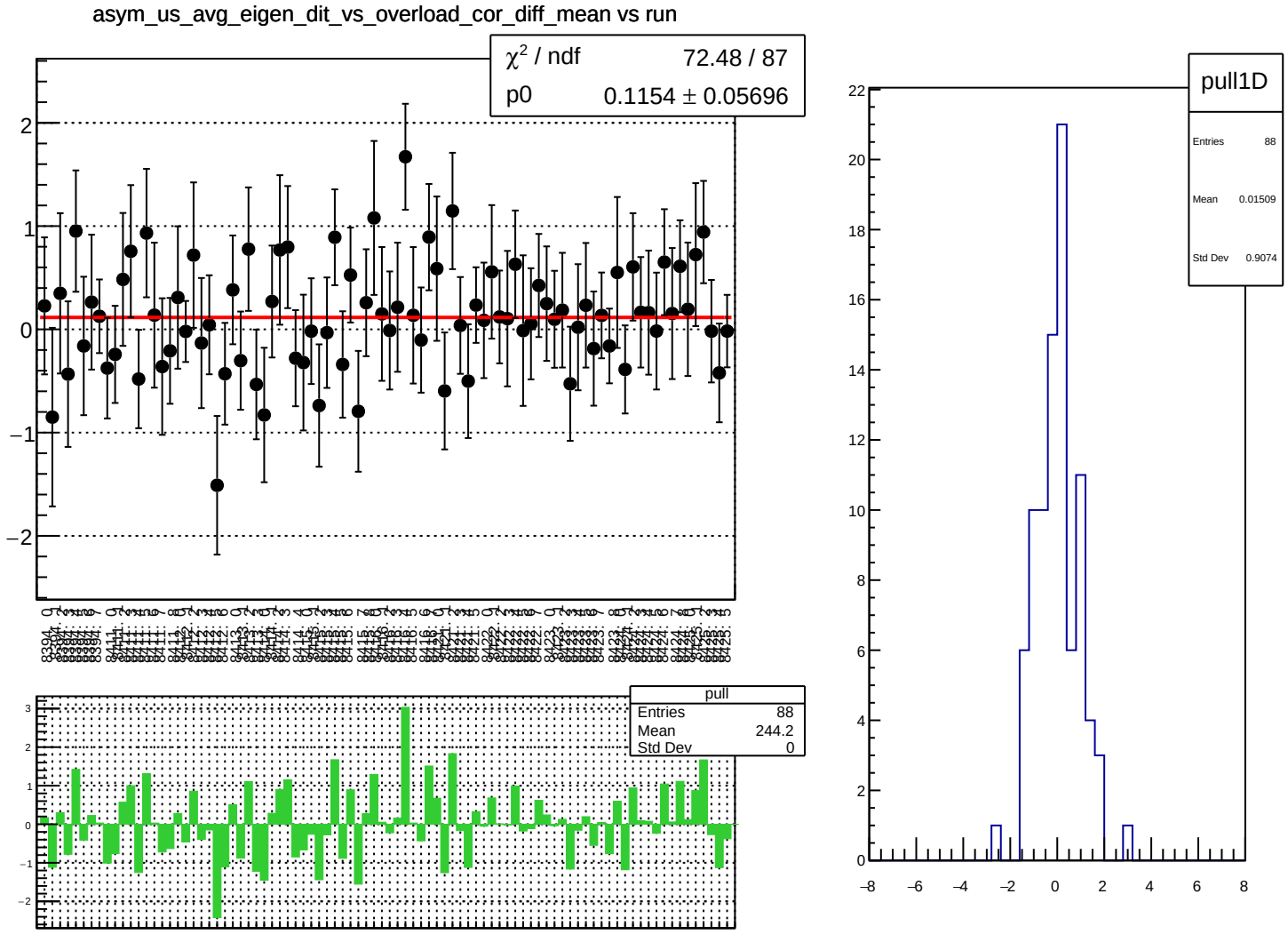

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.28 / 87
p0 −0.009937 ± 0.04042
pull
Entries 88
Mean 134.3
Std Dev 0

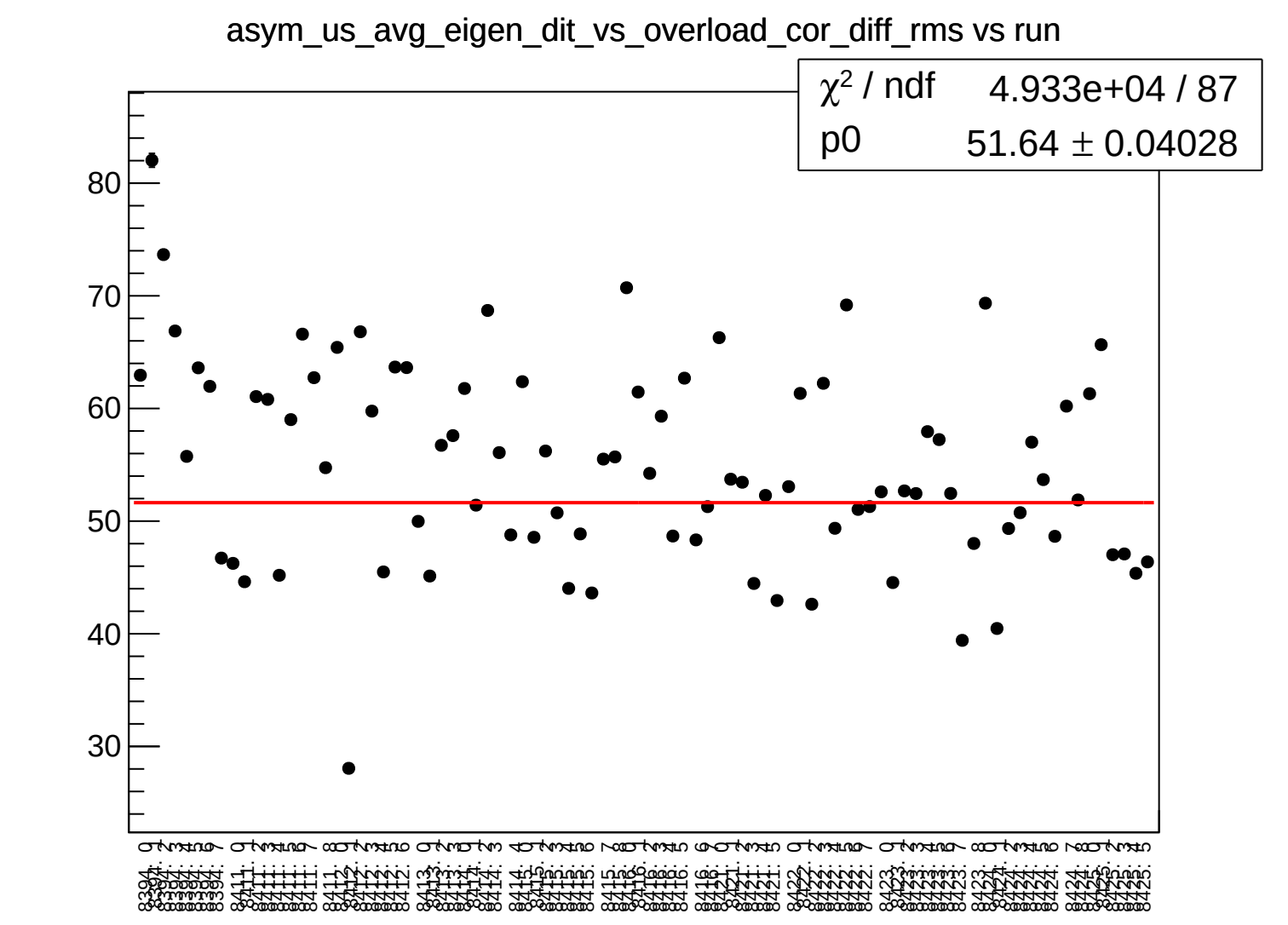

pull1D
Entries 88
Mean 0.01517
Std Dev 0.9248

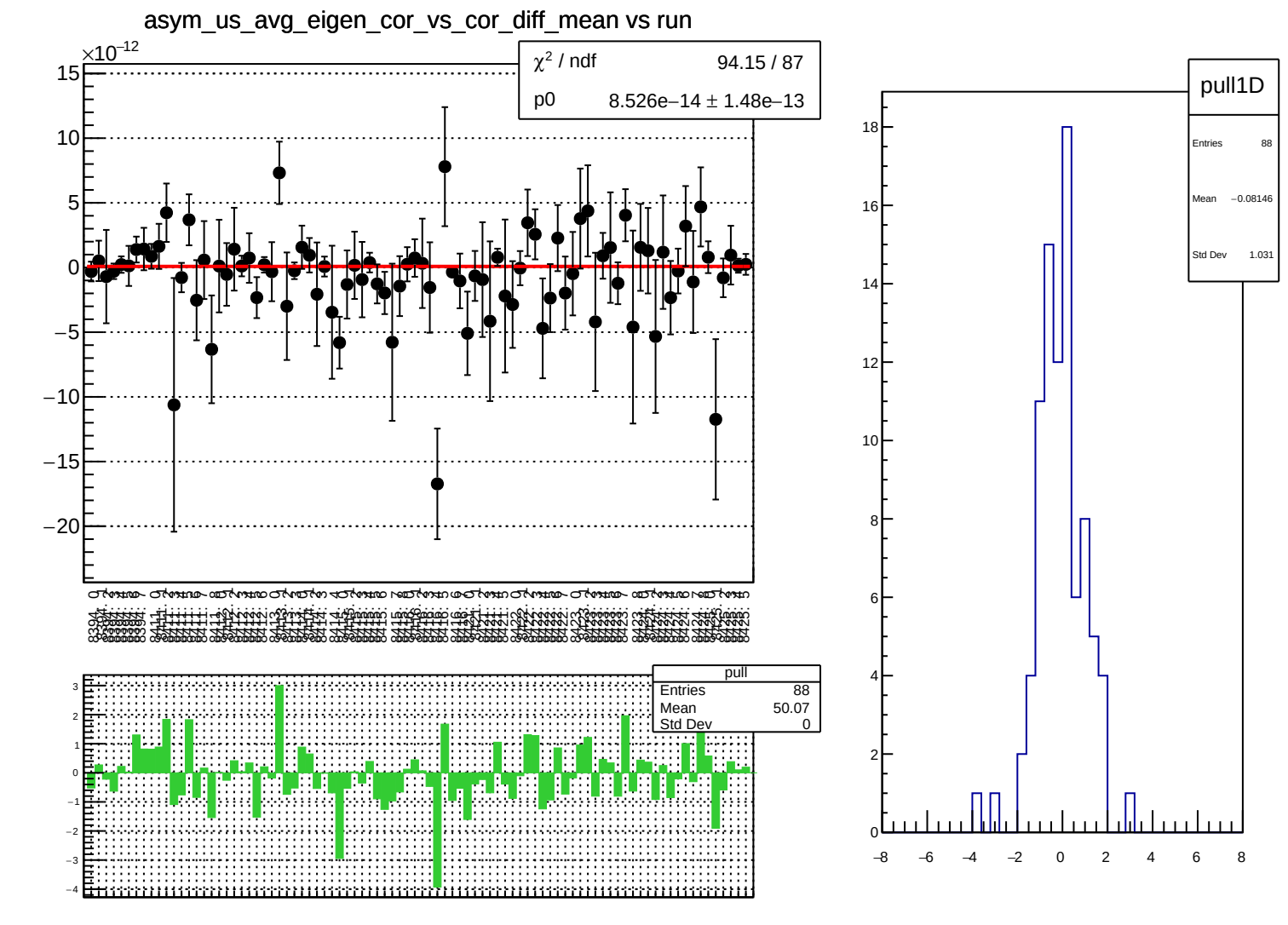

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.304e+05 / 87
p0 35.72 ± 0.02858
80
70
60
50
40
30
20

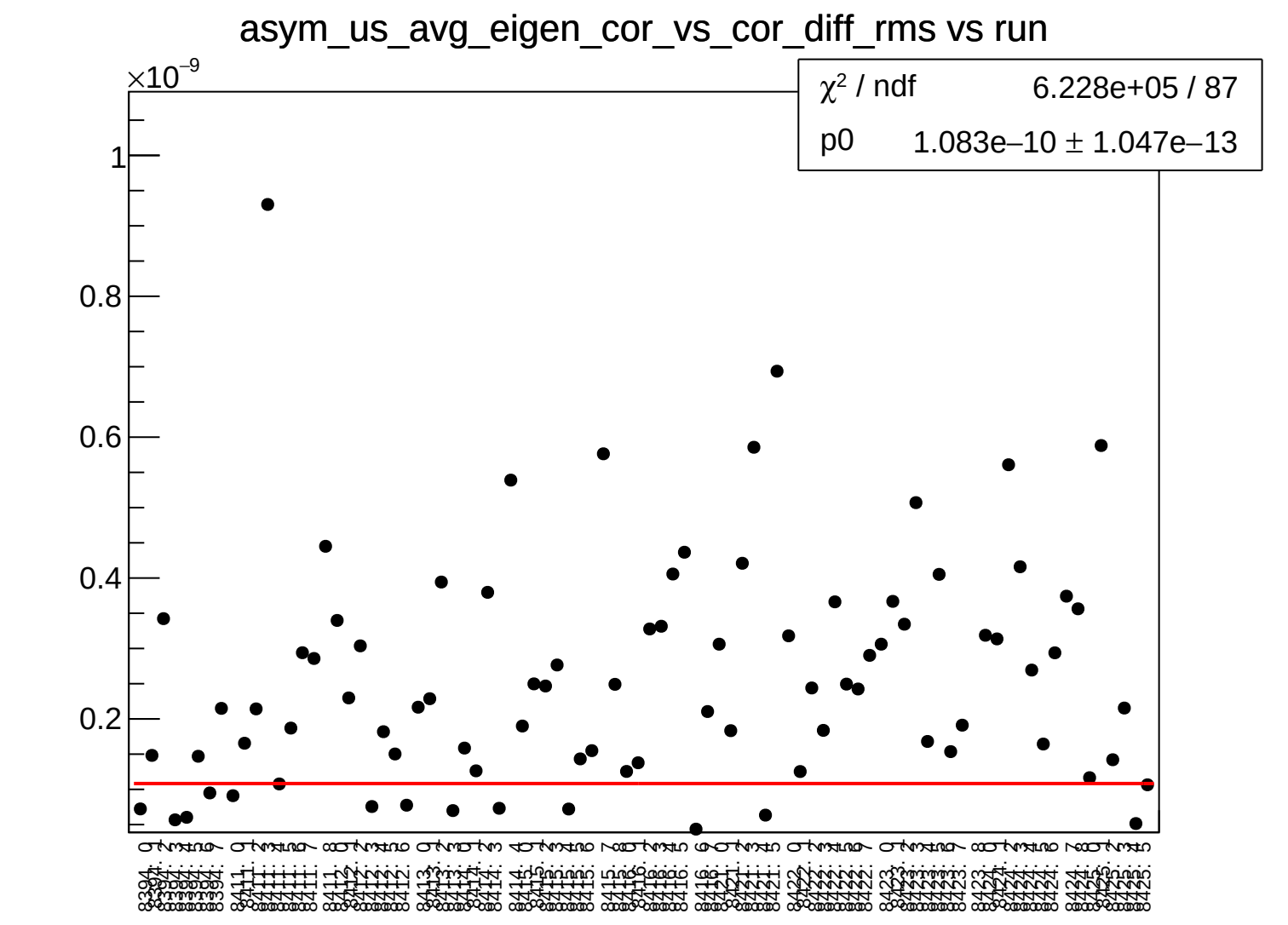

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.28 / 87
p0 −0.009937 ± 0.04042
pull
Entries 88
Mean 134.3
Std Dev 0
pull1D
Entries 88
Mean 0.01517
Std Dev 0.9248

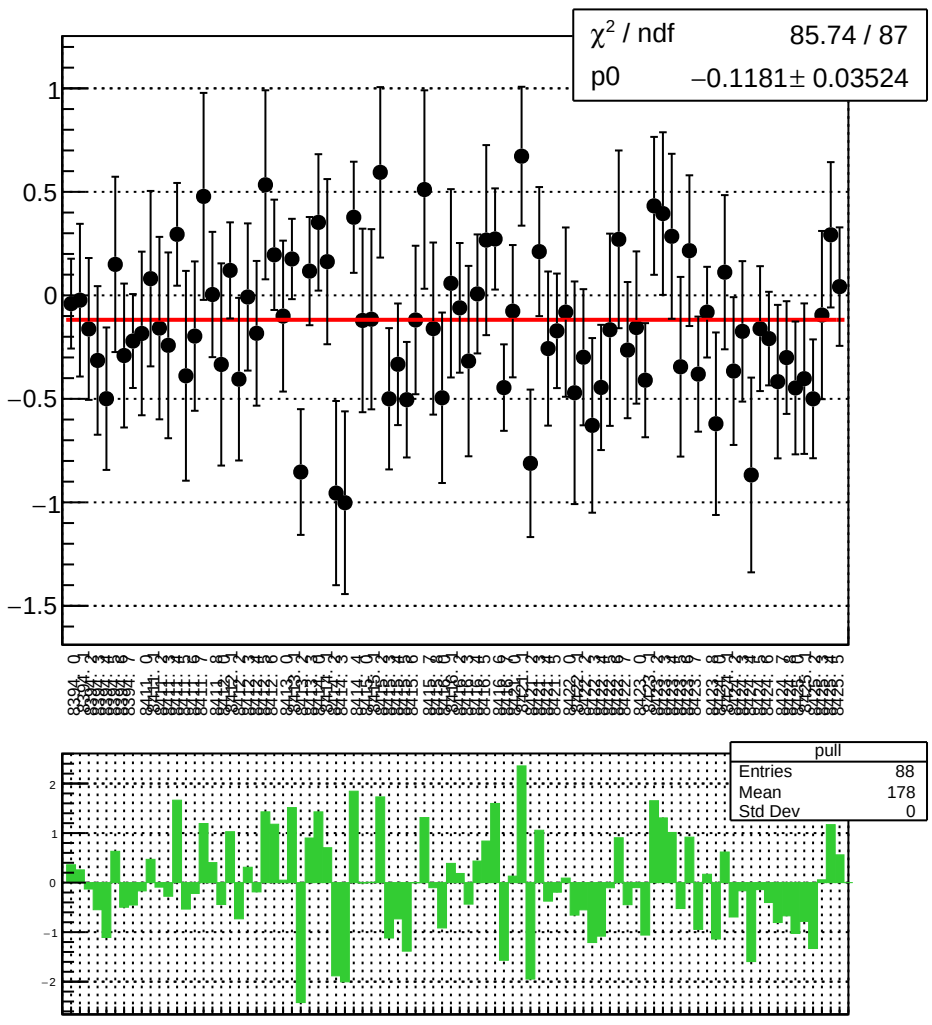

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.304e+05 / 87
p0 35.72 ± 0.02858
80
70
60
50
40
30
20

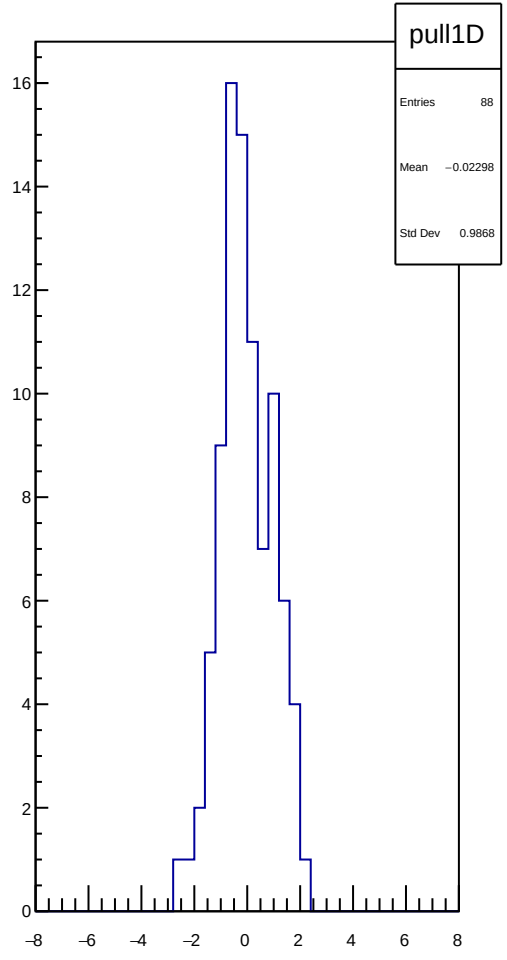

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 72.48 / 87
p0 0.1154 ± 0.05696
pull
Entries 88
Mean 244.2
Std Dev 0
pull1D
Entries 88
Mean 0.01509
Std Dev 0.9074

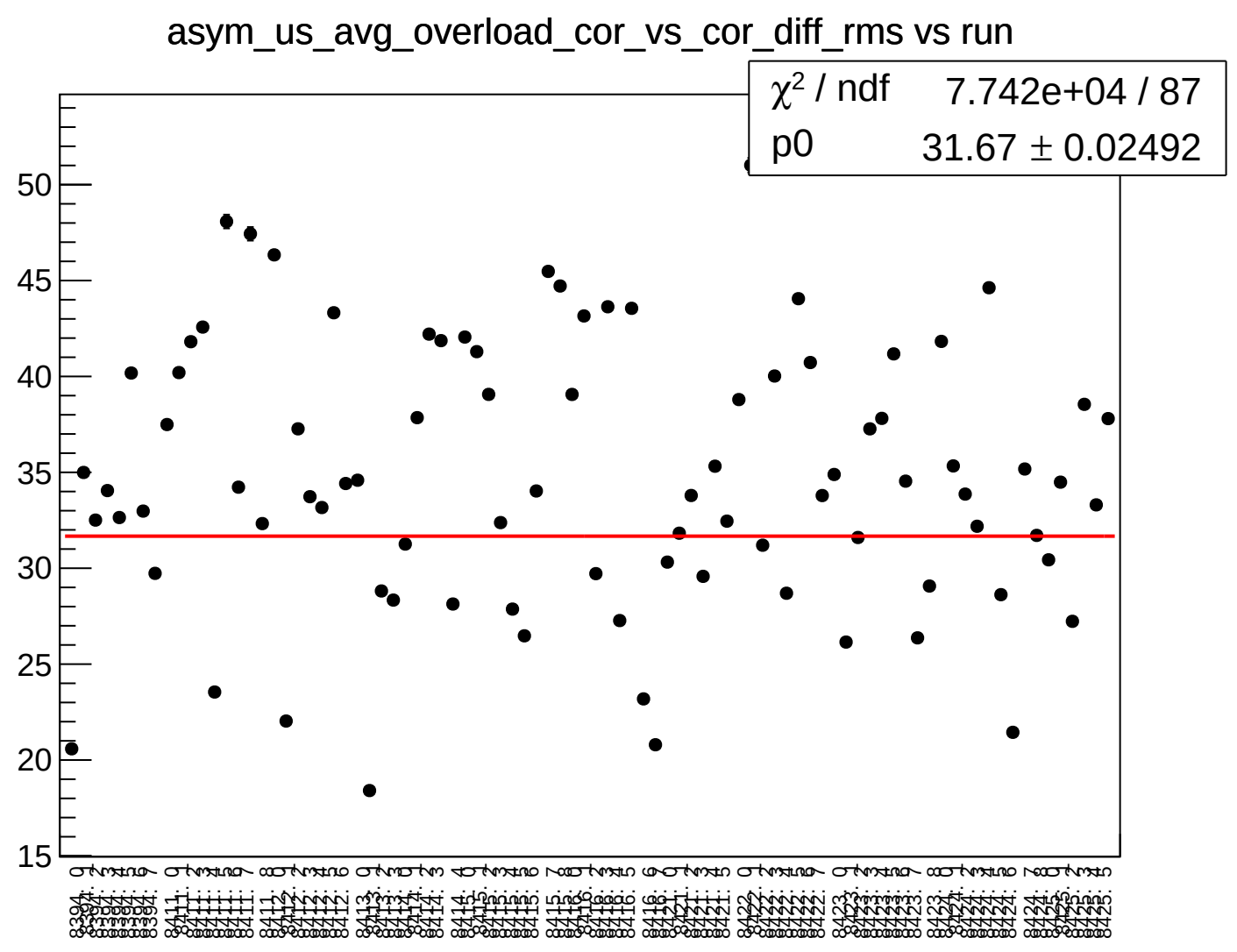

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.933e+04 / 87
p0 51.64 ± 0.04028
80
70
60
50
40
30

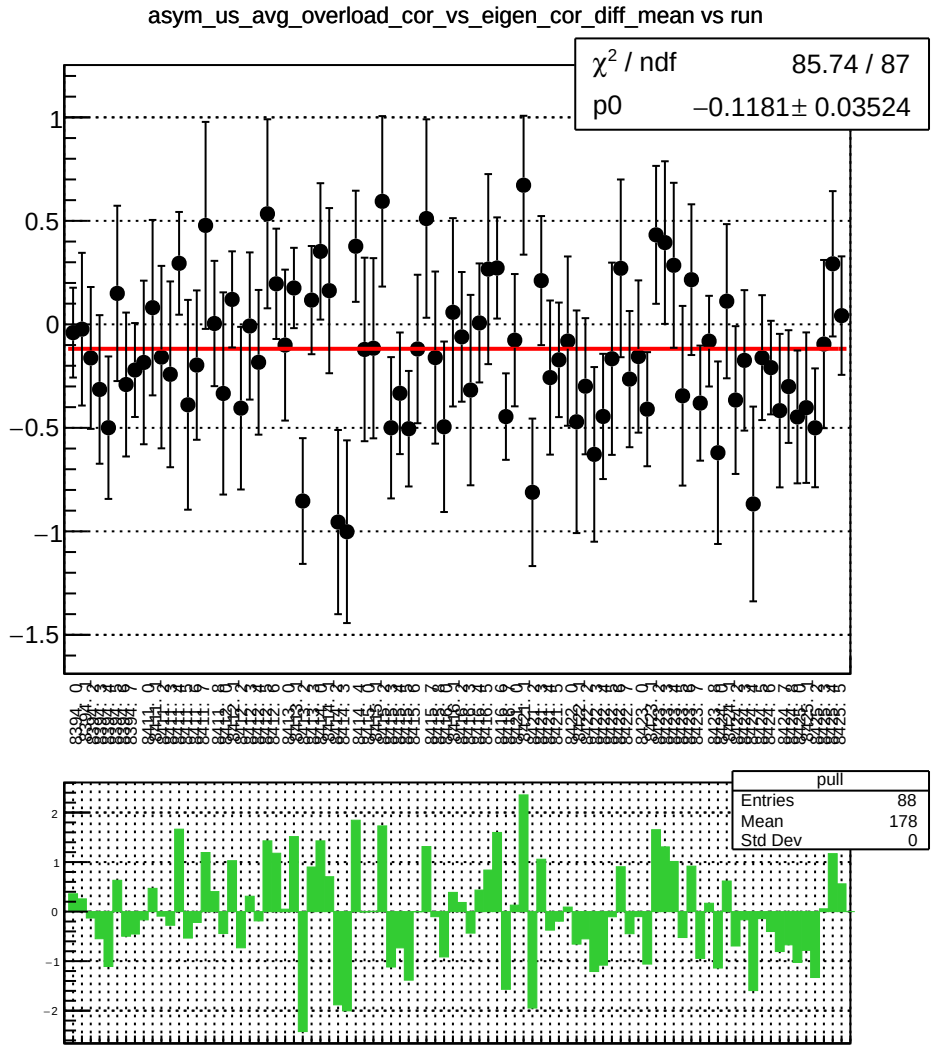

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.15 / 87
p0 8.526e−14 ± 1.48e−13
pull
Entries 88
Mean 50.07
Std Dev 0
pull1D
Entries 88
Mean −0.08146
Std Dev 1.031

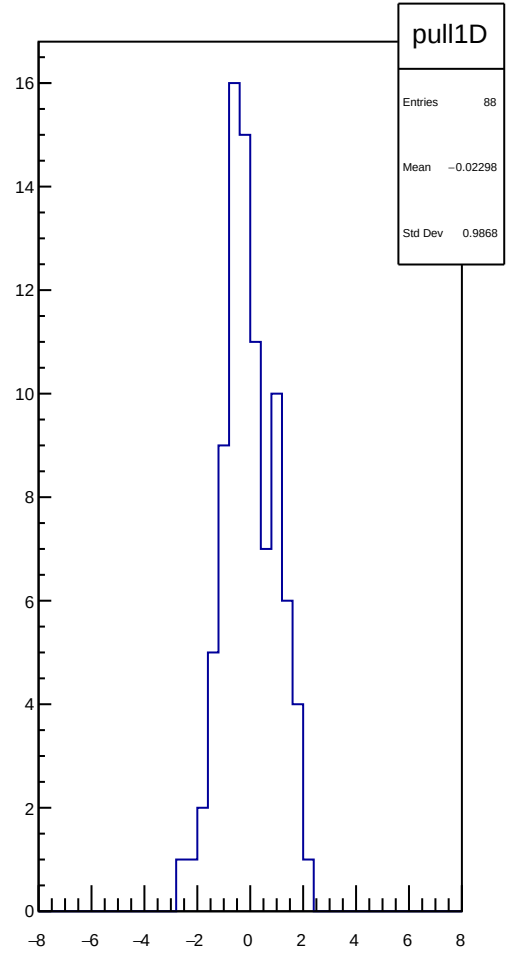

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.228e+05 / 87
p0 1.083e−10 ± 1.047e−13
1
0.8
0.6
0.4
0.2

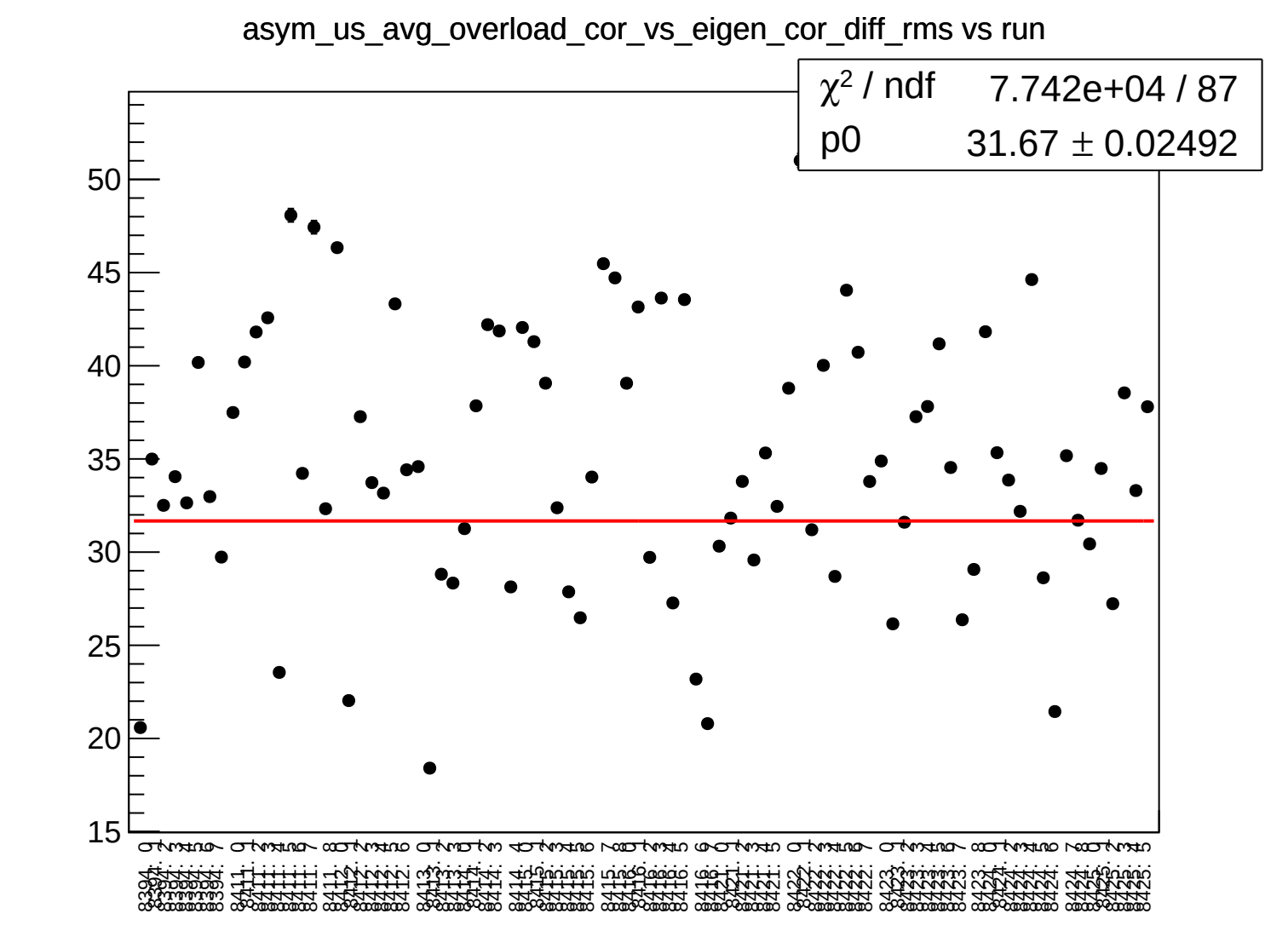

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 85.74 / 87
p0 −0.1181± 0.03524
pull
Entries 88
Mean 178
Std Dev 0

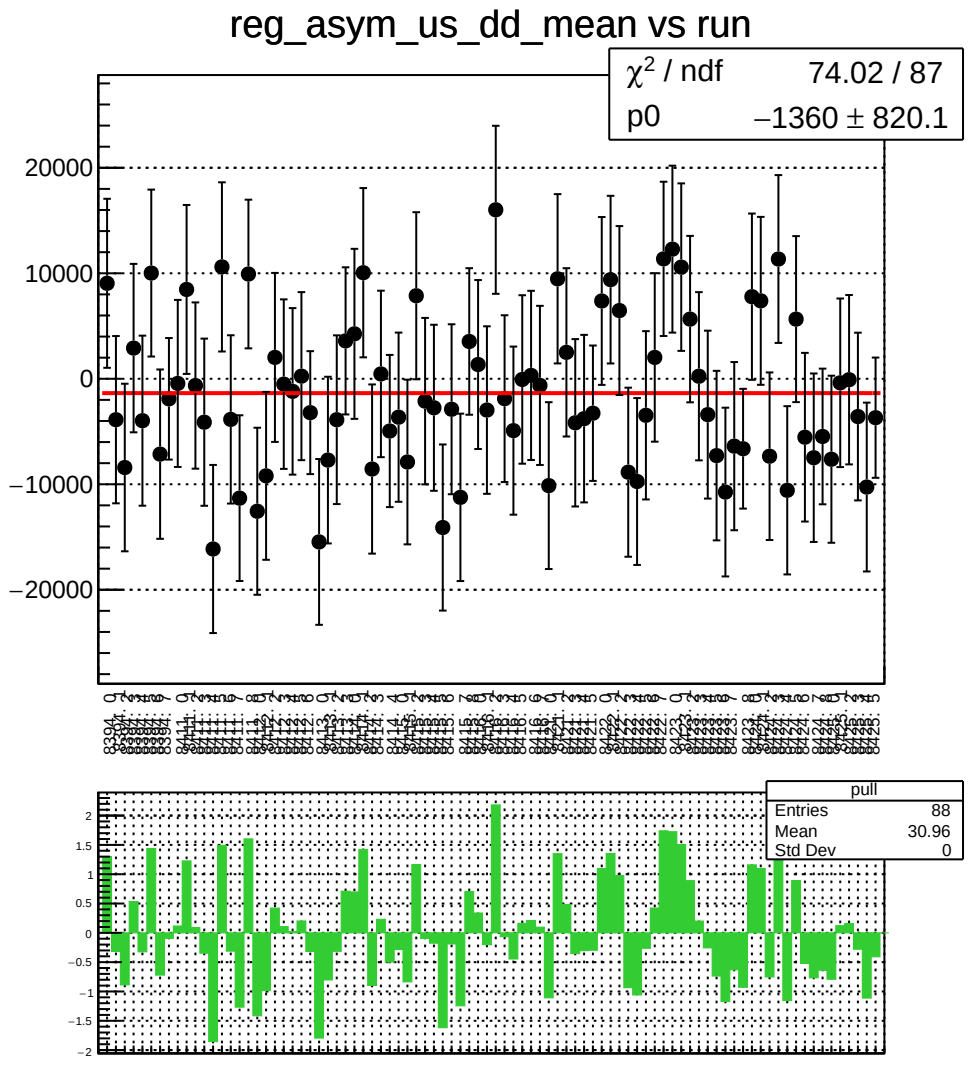

pull1D
Entries 88
Mean −0.02298
Std Dev 0.9868

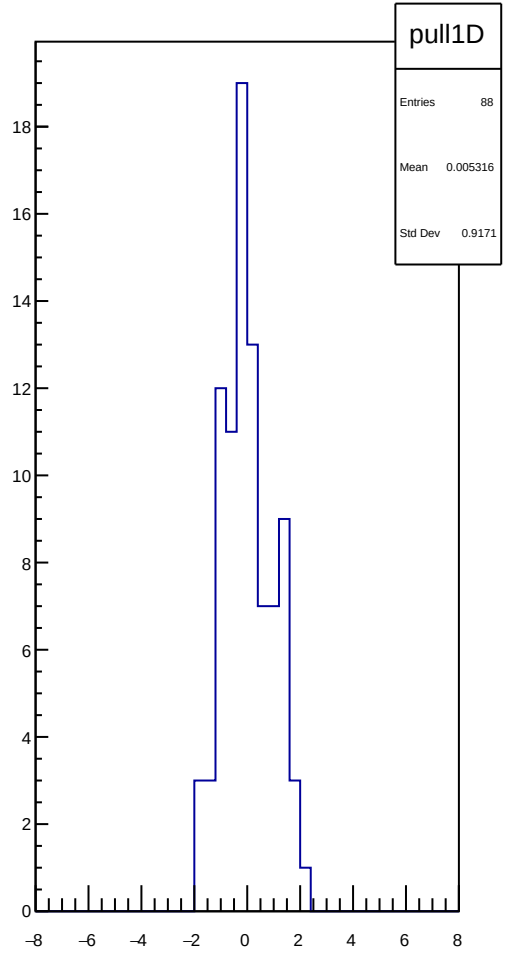

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 7.742e+04 / 87
p0 31.67 ± 0.02492
50
45
40
35
30
25
20
15

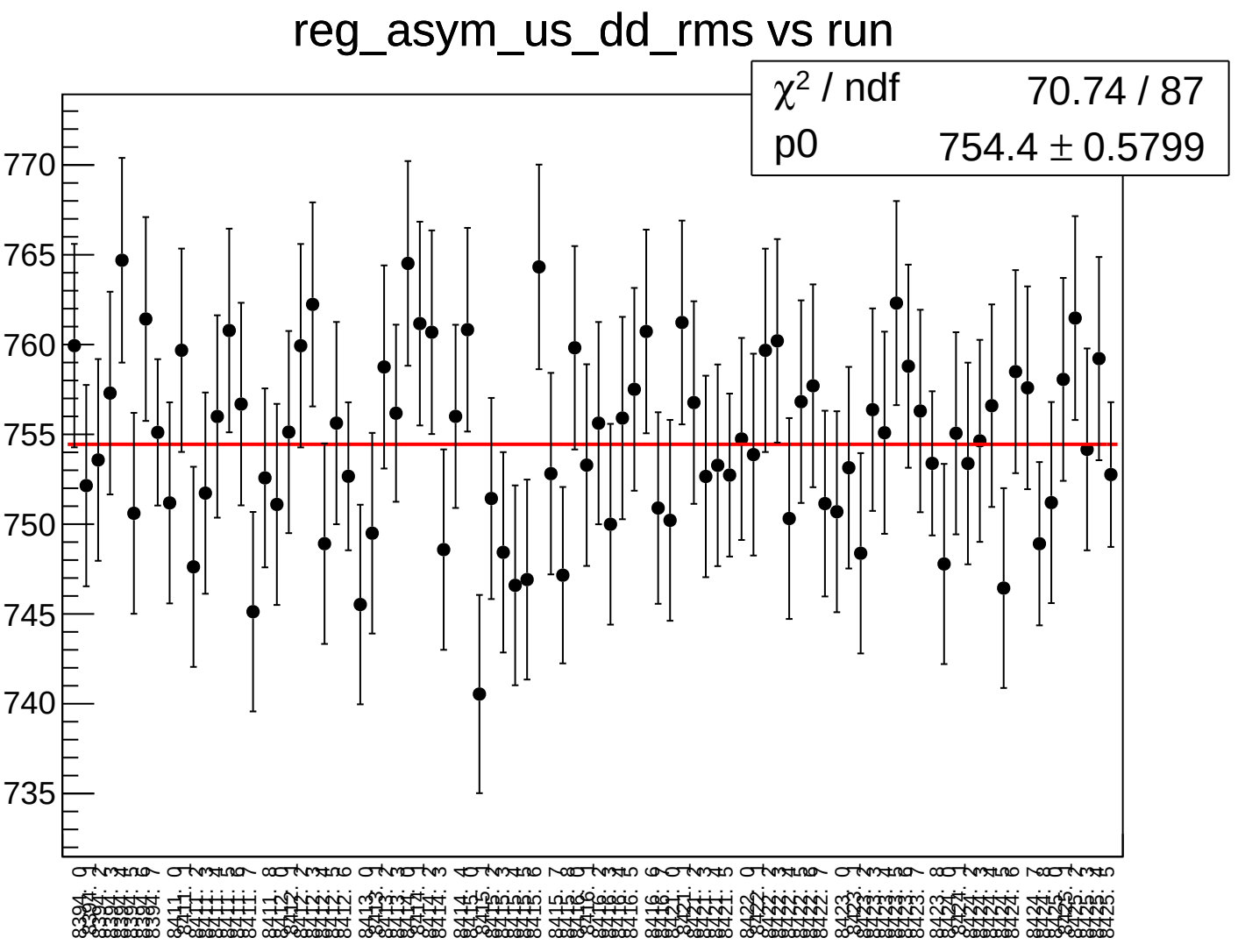

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.74 / 87
p0 −0.1181± 0.03524
pull
Entries 88
Mean 178
Std Dev 0

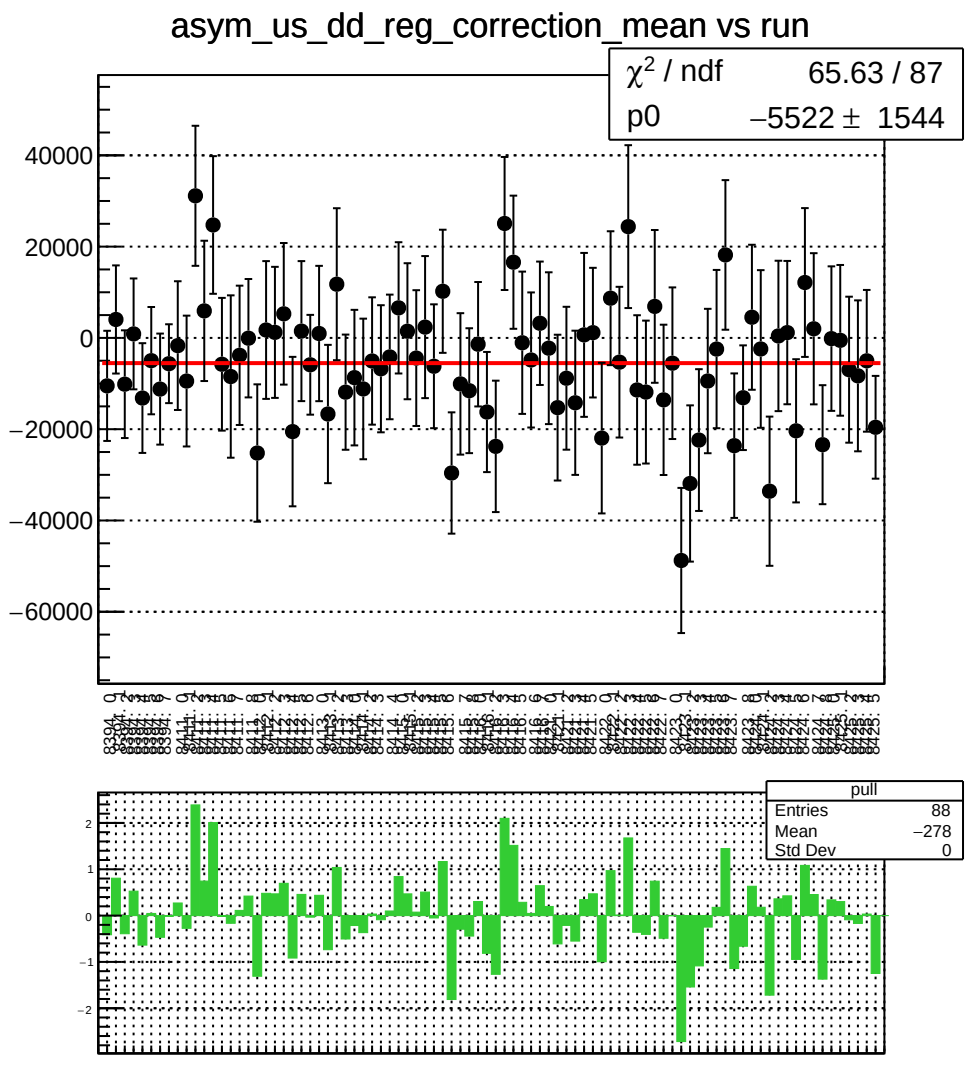

pull1D
Entries 88
Mean −0.02298
Std Dev 0.9868

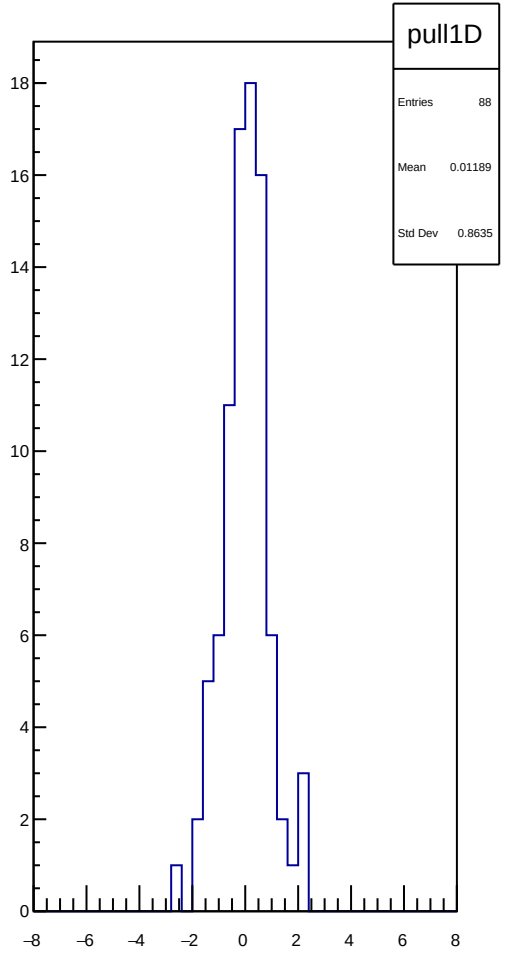

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.742e+04 / 87
p0 31.67 ± 0.02492
50
45
40
35
30
25
20
15

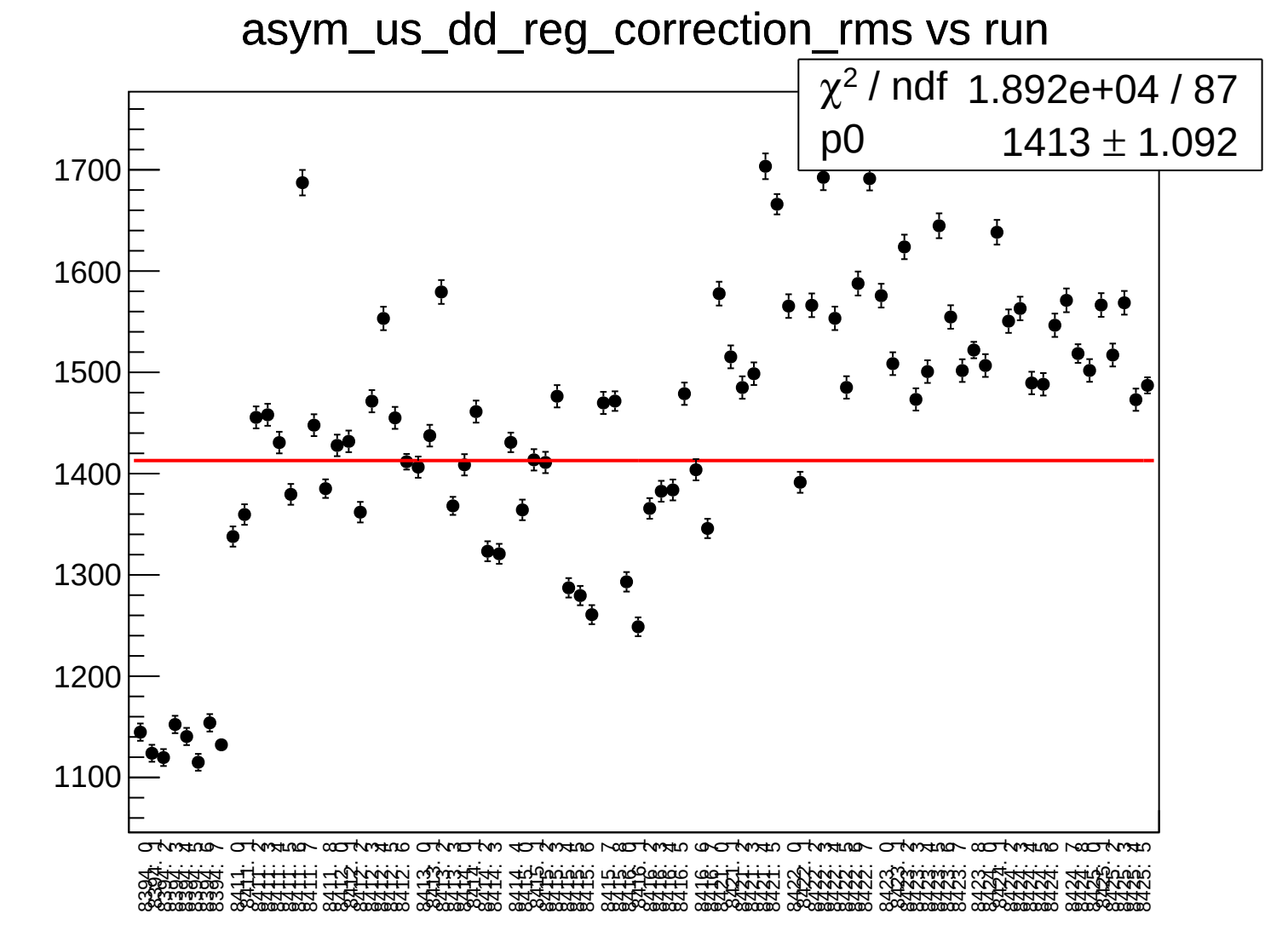

reg_asym_us_dd_mean vs run
χ² / ndf 74.02 / 87
p0 −1360 ± 820.1
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 30.96
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

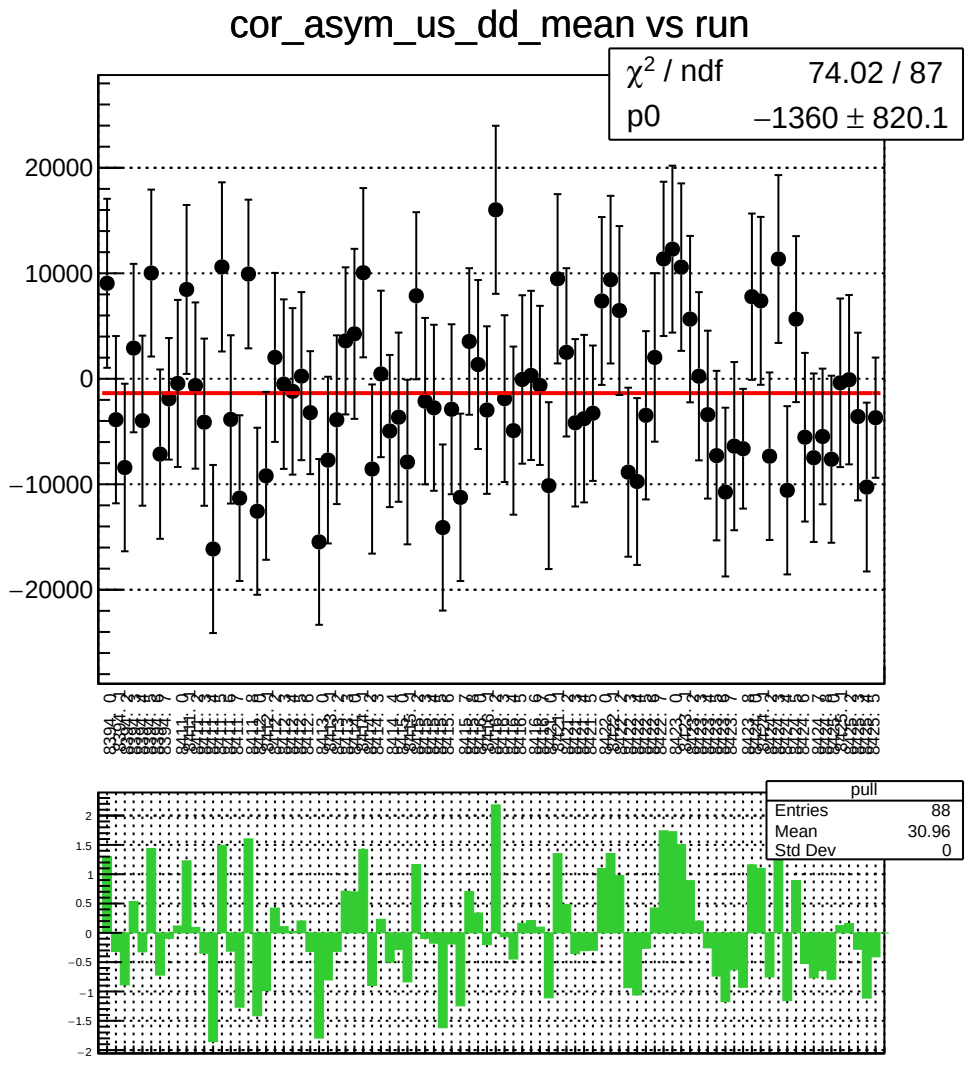

pull1D
Entries 88
Mean 0.005316
Std Dev 0.9171
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

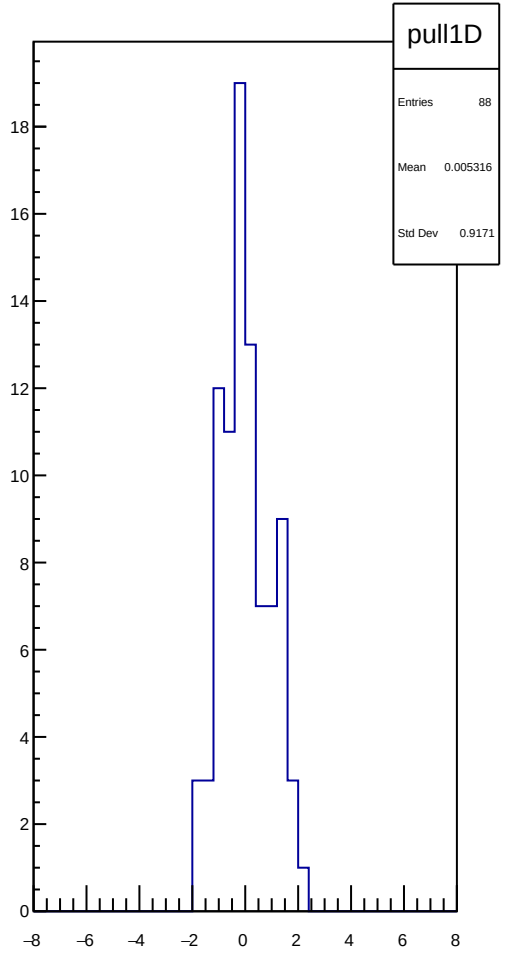

reg_asym_us_dd_rms vs run
χ² / ndf 70.74 / 87
p0 754.4 ± 0.5799
770
765
760
755
750
745
740
735

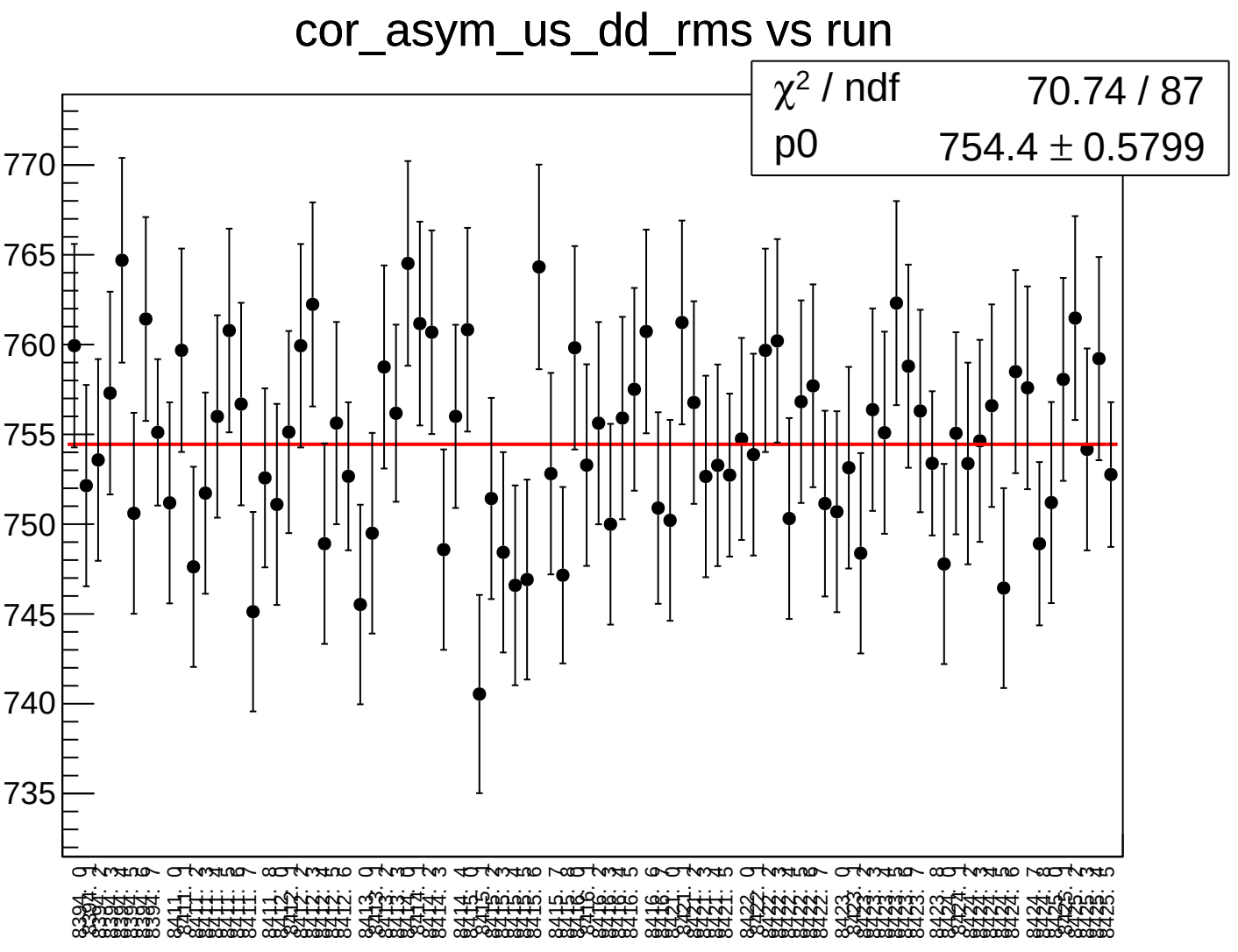

asym_us_dd_reg_correction_mean vs run
χ² / ndf 65.63 / 87
p0 −5522 ± 1544
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −278
Std Dev 0
2
1
0
−1
−2

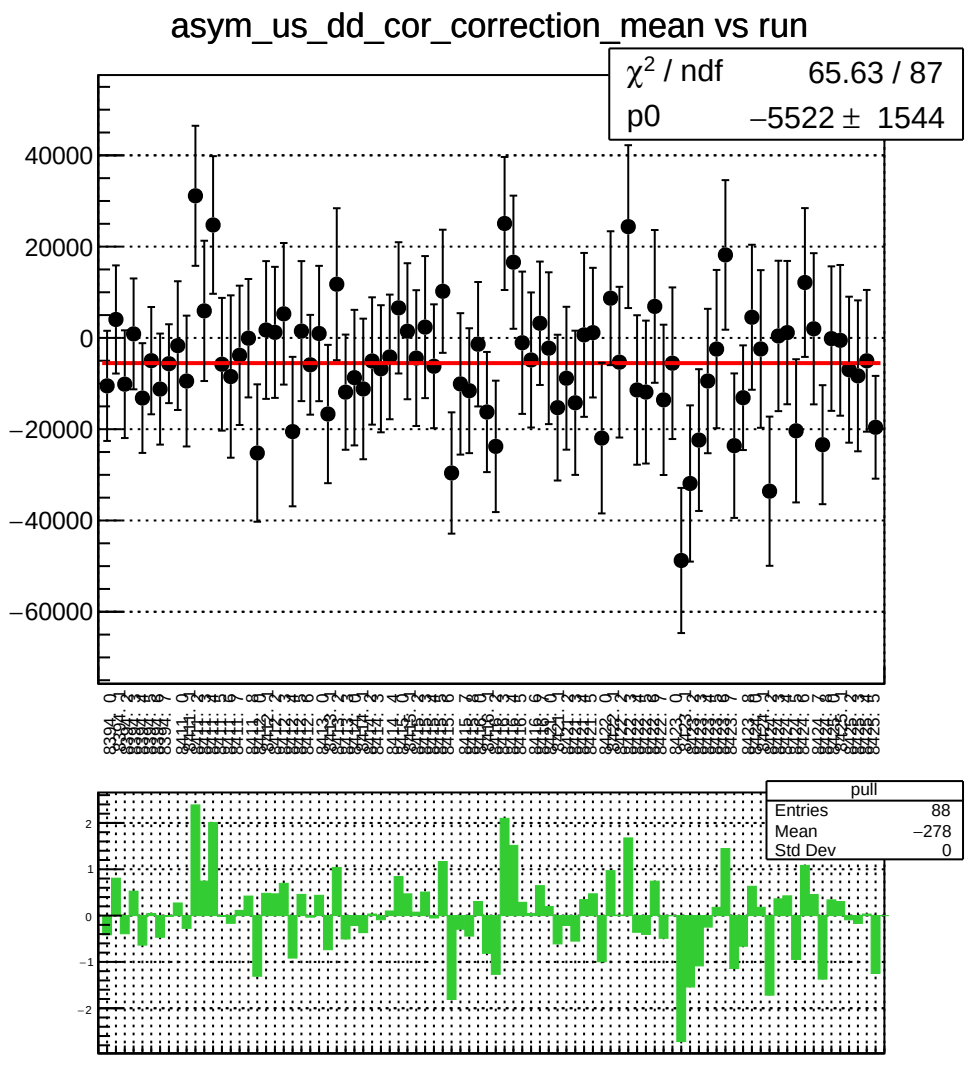

pull1D
Entries 88
Mean 0.01189
Std Dev 0.8635
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

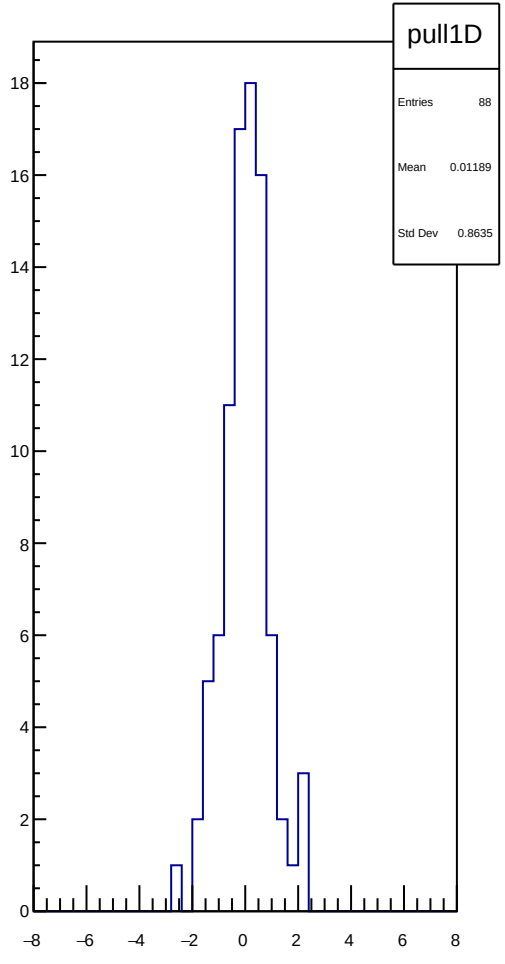

asym_us_dd_reg_correction_rms vs run
χ² / ndf 1.892e+04 / 87
p0 1413 ± 1.092
1700
1600
1500
1400
1300
1200
1100

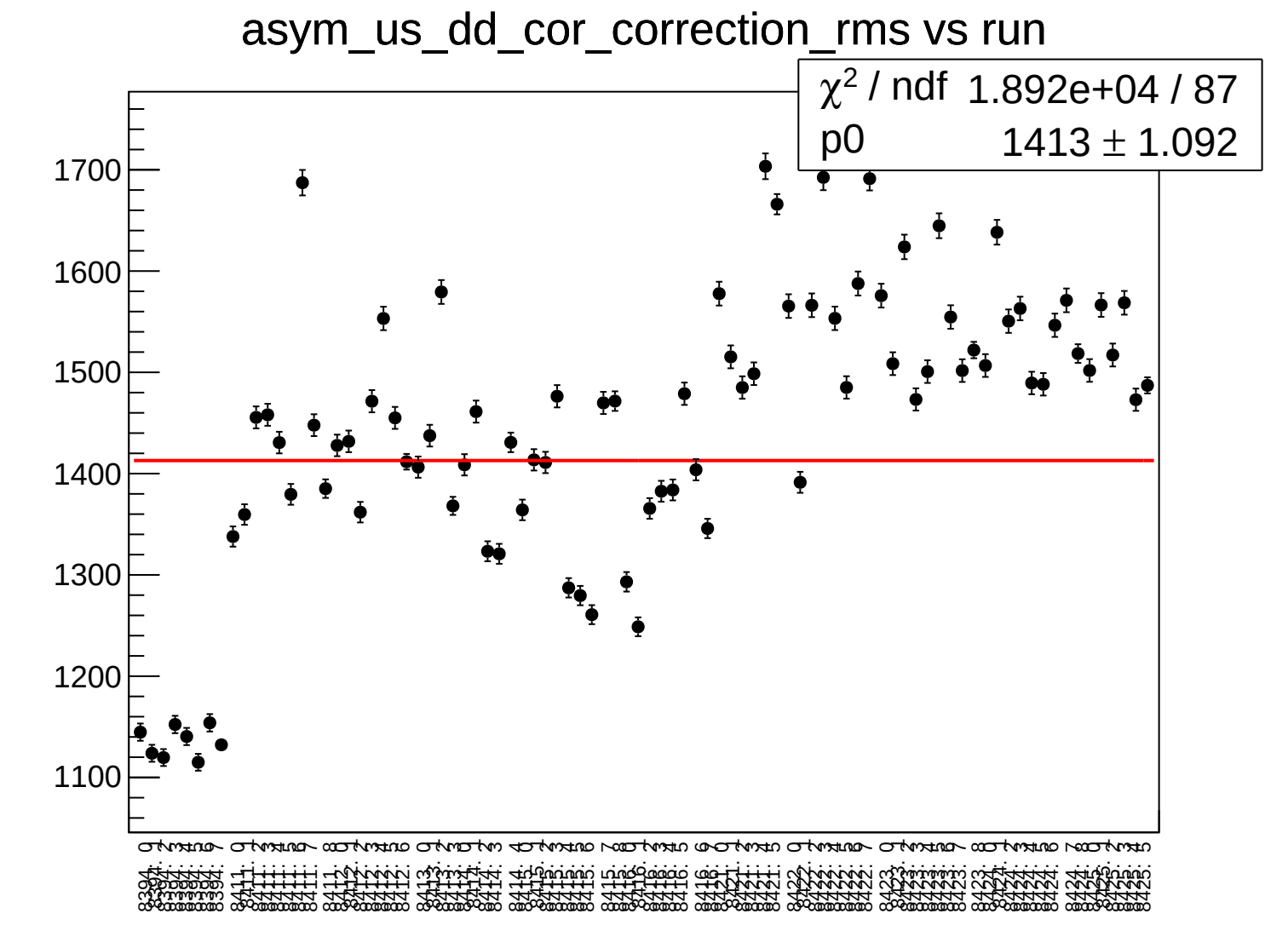

cor_asym_us_dd_mean vs run
χ² / ndf 74.02 / 87
p0 −1360 ± 820.1
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 30.96
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

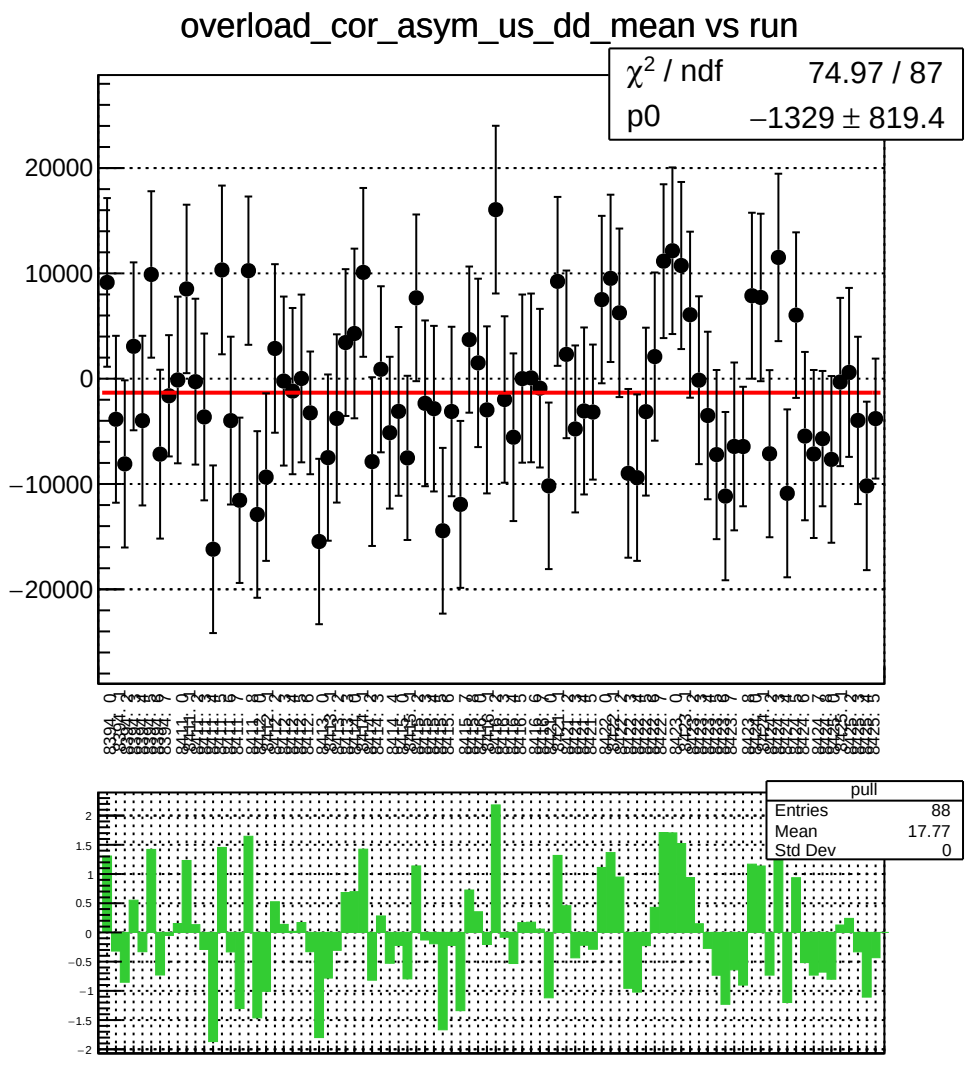

pull1D
Entries 88
Mean 0.005316
Std Dev 0.9171
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

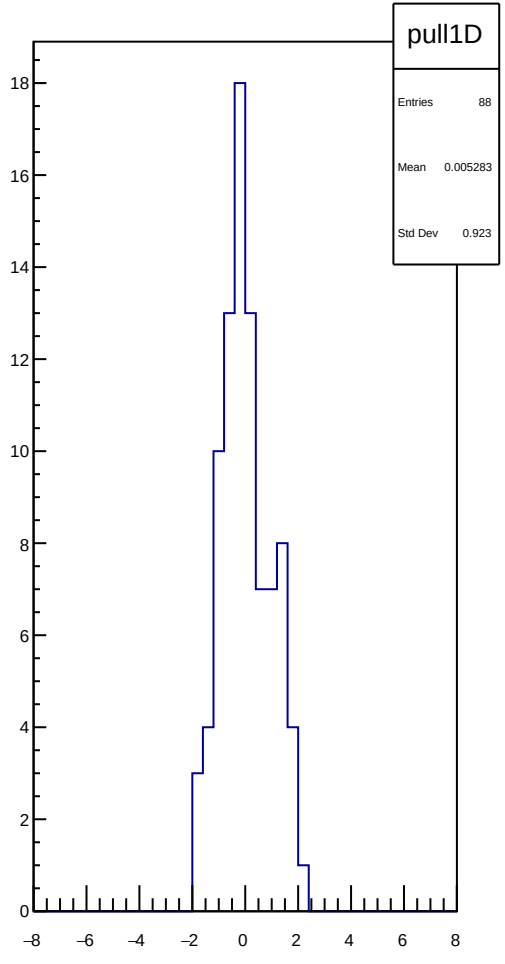

cor_asym_us_dd_rms vs run
χ² / ndf 70.74 / 87
p0 754.4 ± 0.5799
770
765
760
755
750
745
740
735

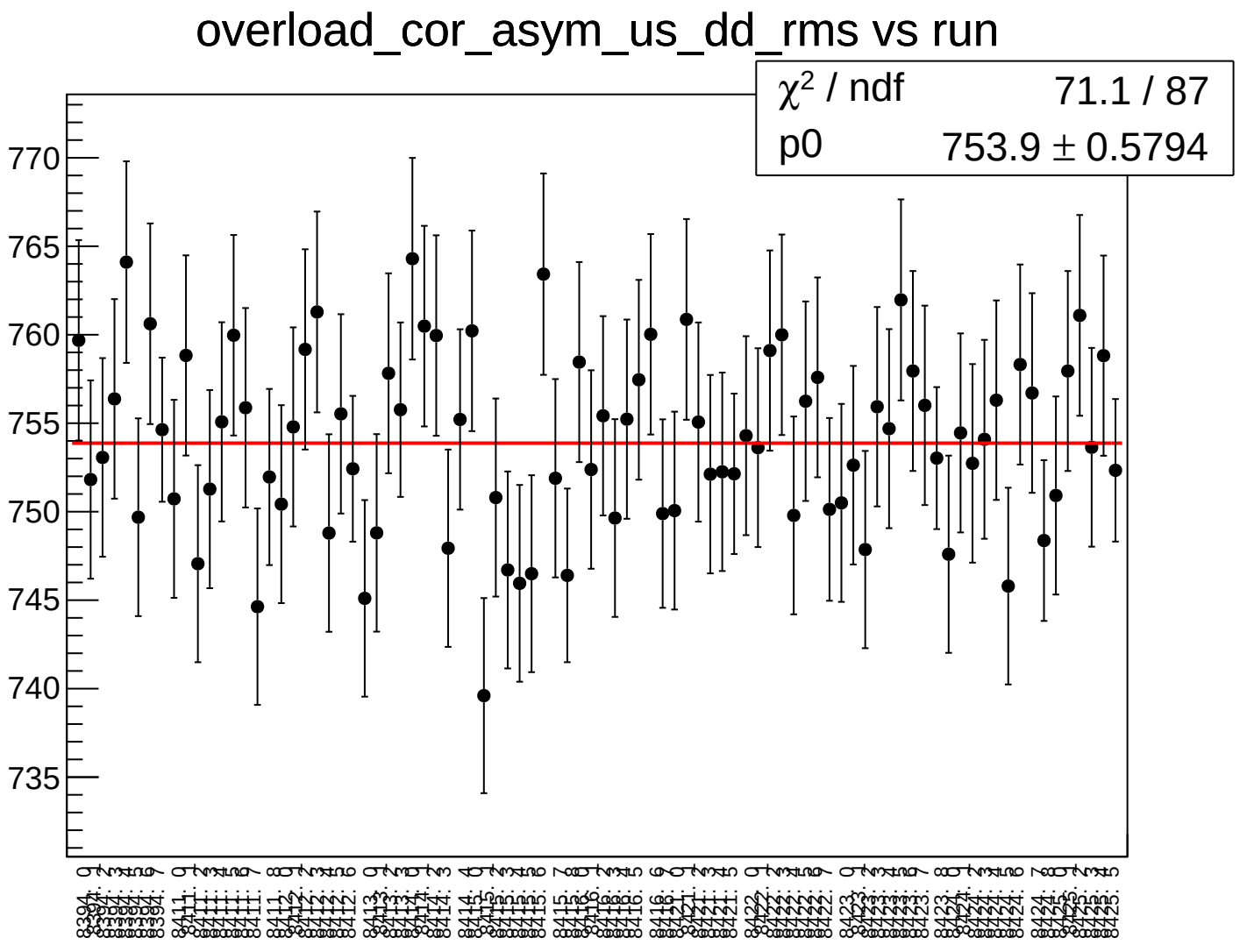

asym_us_dd_cor_correction_mean vs run
χ² / ndf 65.63 / 87
p0 −5522 ± 1544
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −278
Std Dev 0
2
1
0
−1
−2

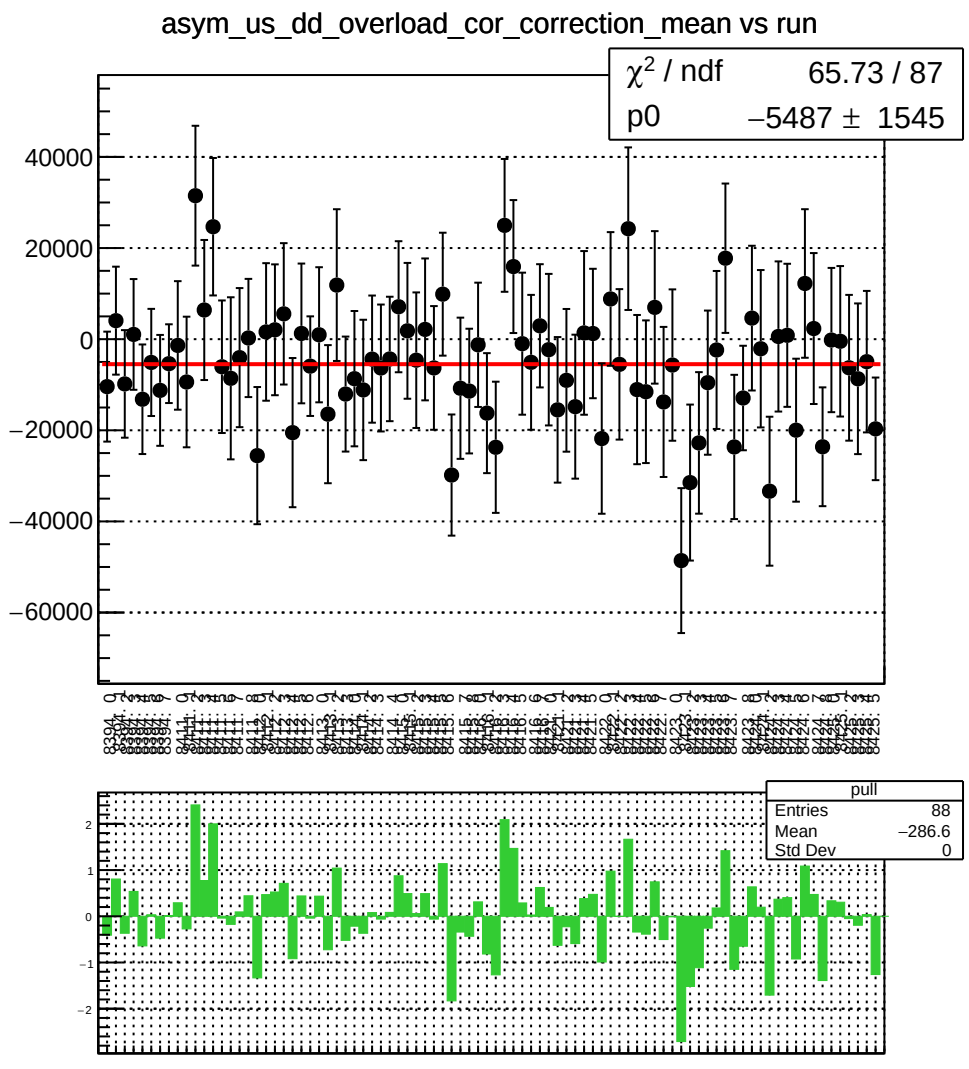

pull1D
Entries 88
Mean 0.01189
Std Dev 0.8635
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

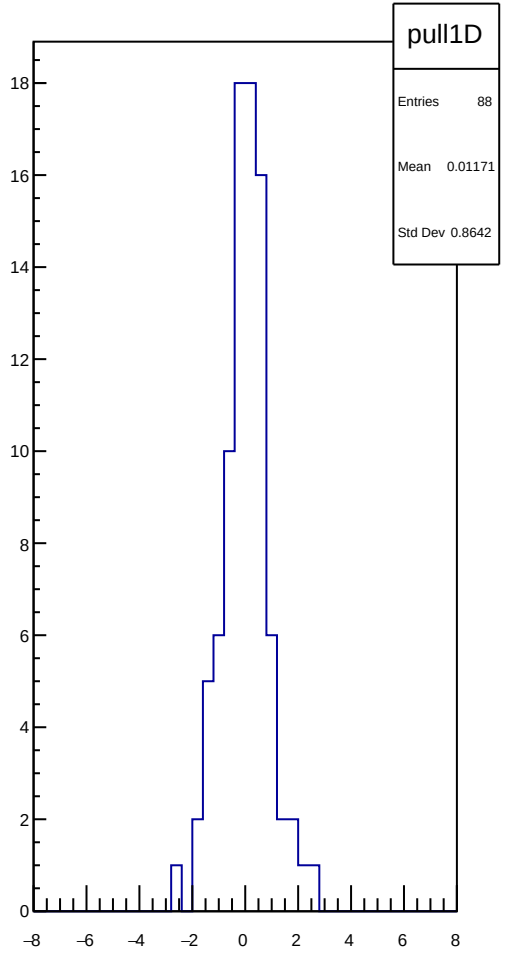

asym_us_dd_cor_correction_rms vs run
χ² / ndf 1.892e+04 / 87
p0 1413 ± 1.092
1700
1600
1500
1400
1300
1200
1100

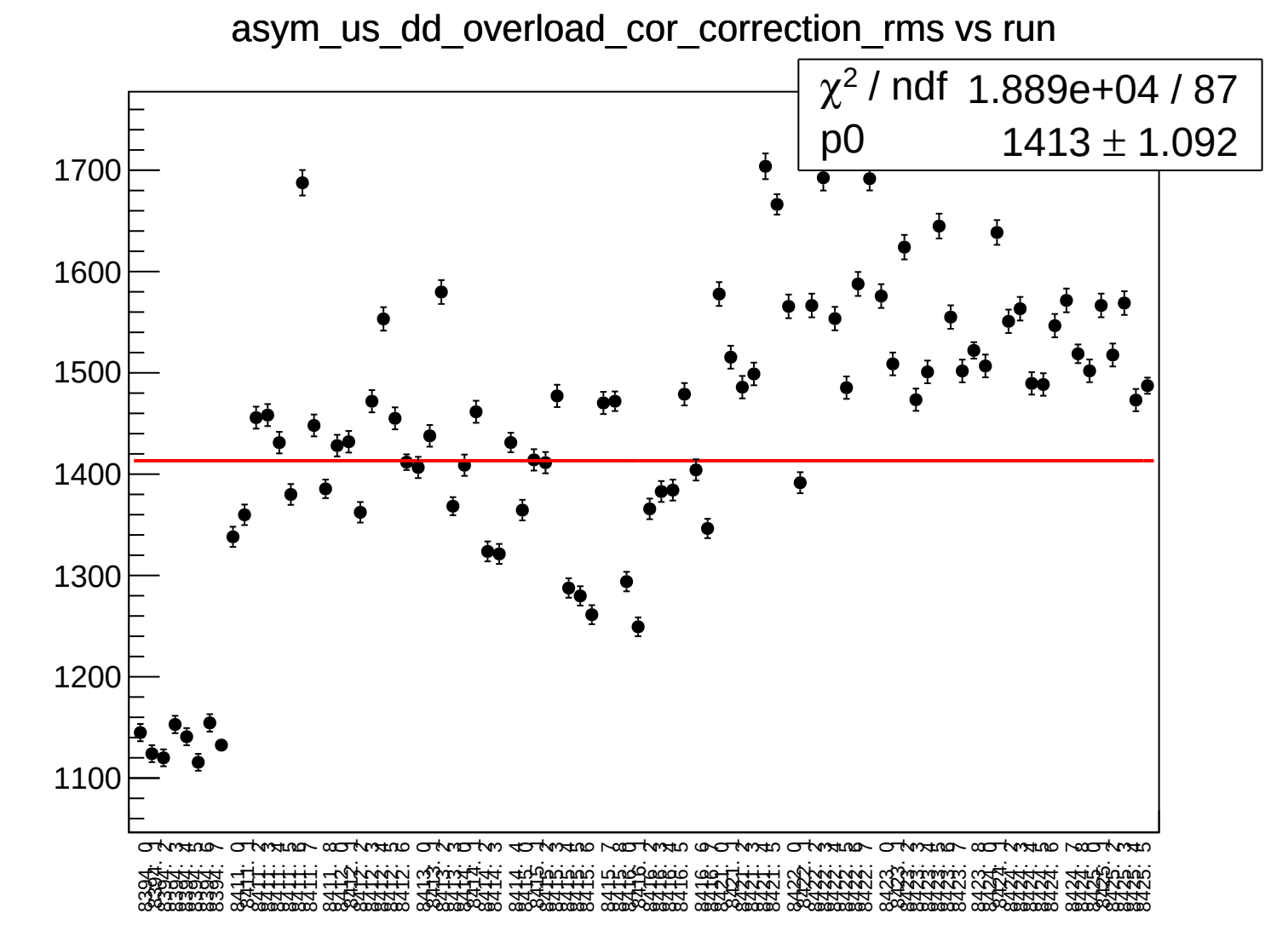

overload_cor_asym_us_dd_mean vs run
χ² / ndf 74.97 / 87
p0 −1329 ± 819.4
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 17.77
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

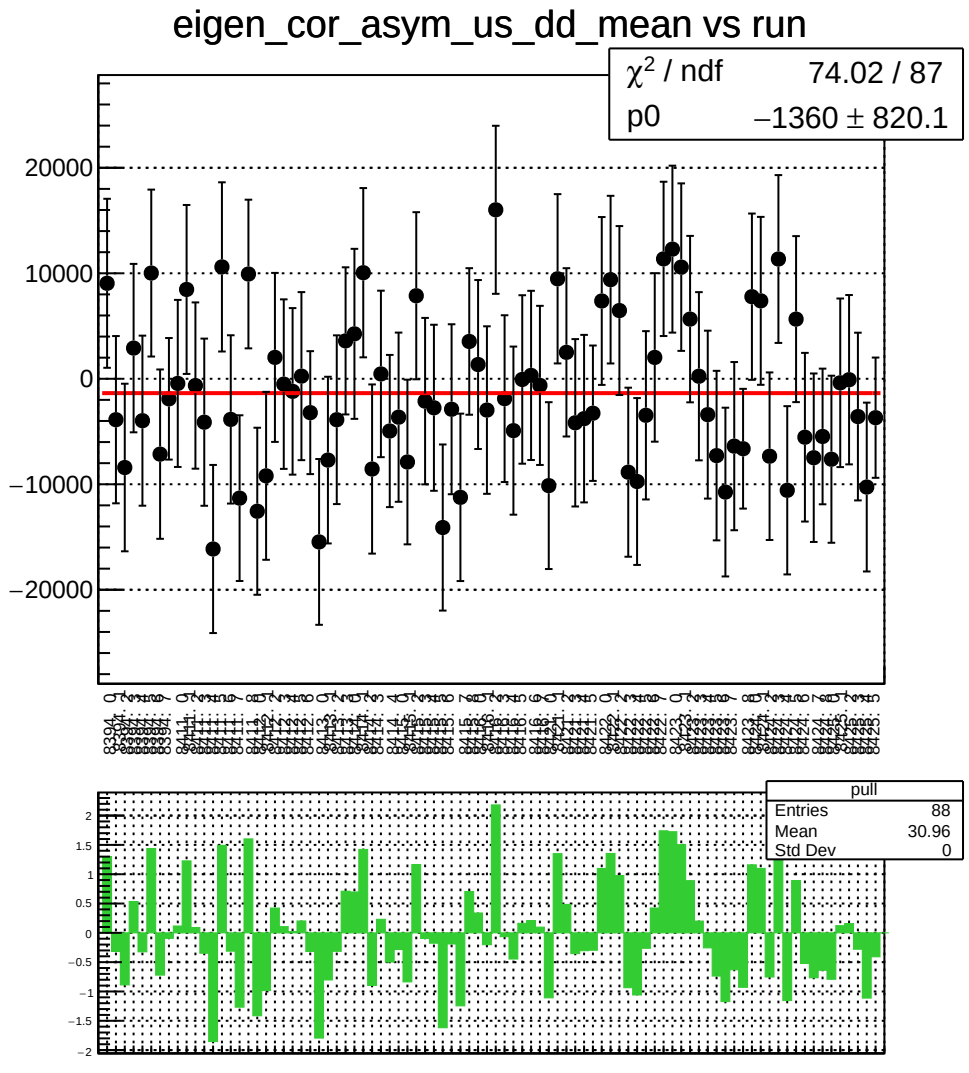

pull1D
Entries 88
Mean 0.005283
Std Dev 0.923
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

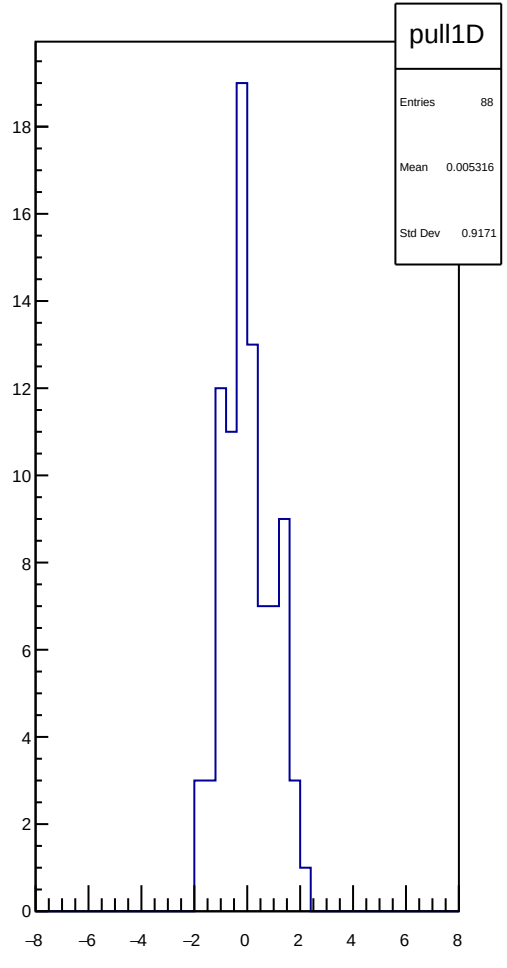

overload_cor_asym_us_dd_rms vs run
χ² / ndf 71.1 / 87
p0 753.9 ± 0.5794
770
765
760
755
750
745
740
735

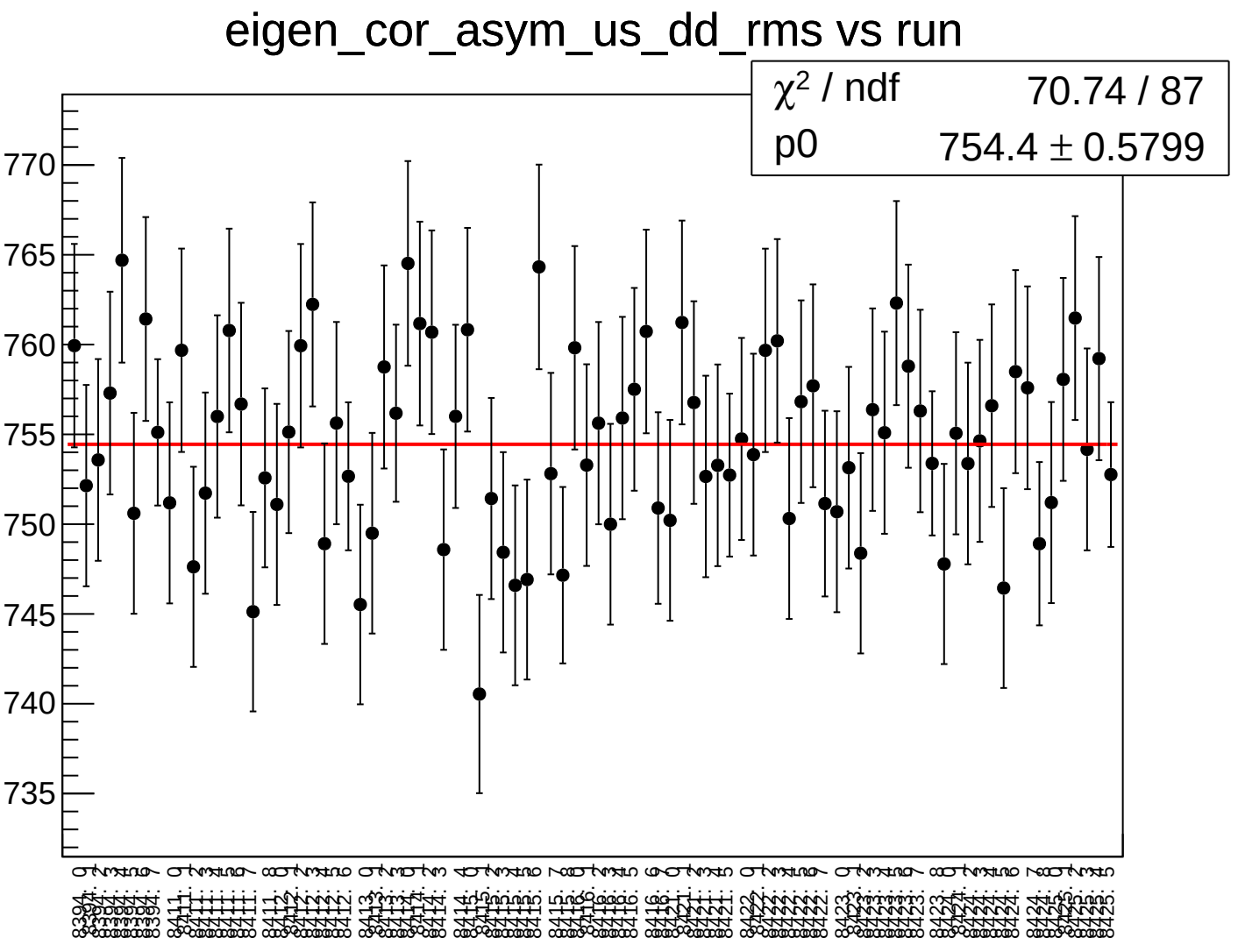

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 65.73 / 87
p0 −5487 ± 1545
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −286.6
Std Dev 0
2
1
0
−1
−2

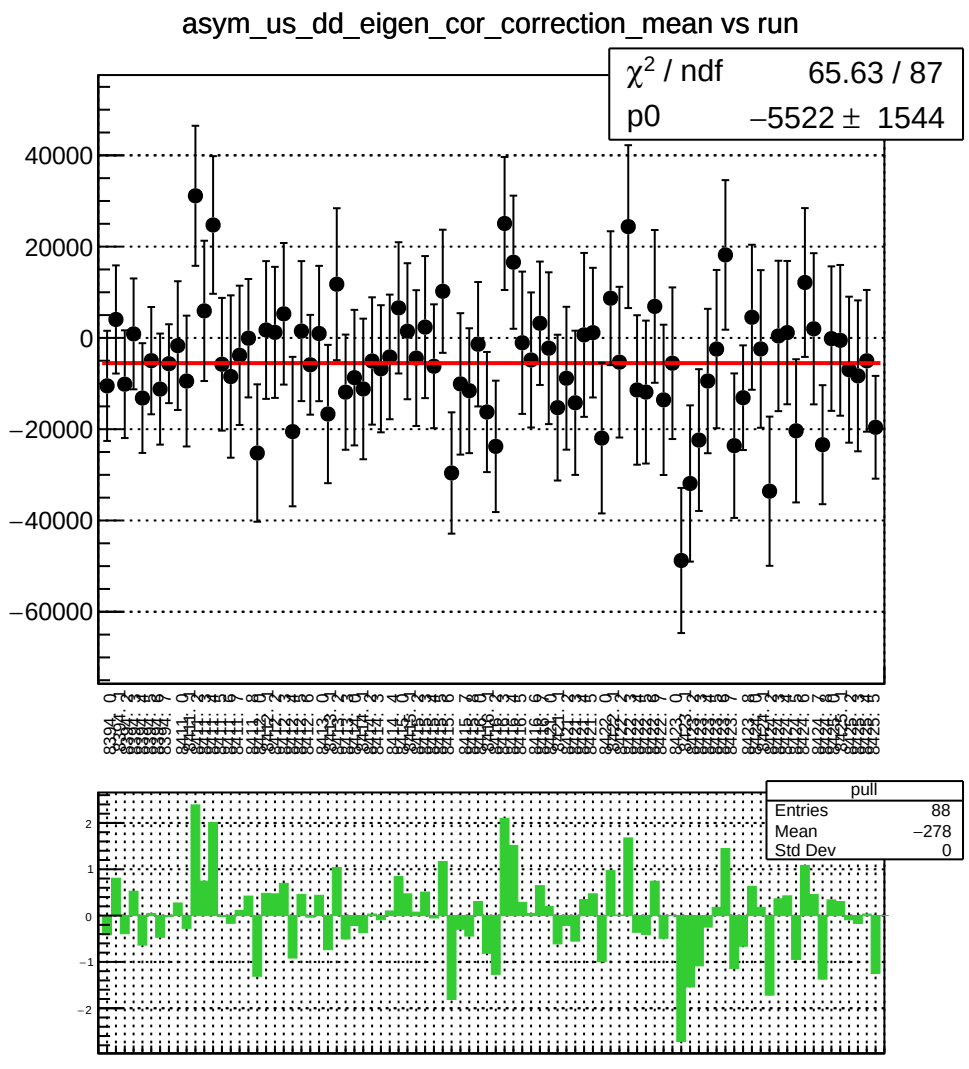

pull1D
Entries 88
Mean 0.01171
Std Dev 0.8642
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

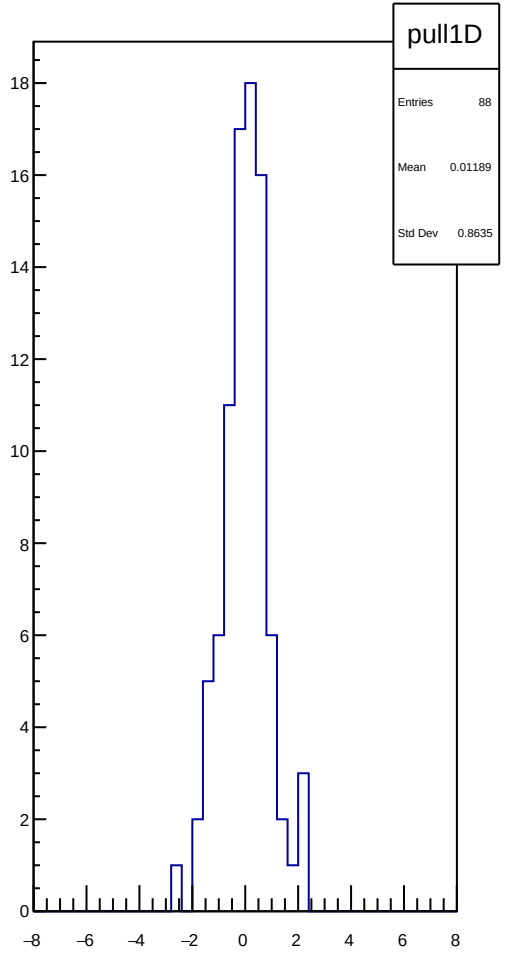

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 1.889e+04 / 87
p0 1413 ± 1.092
1700
1600
1500
1400
1300
1200
1100

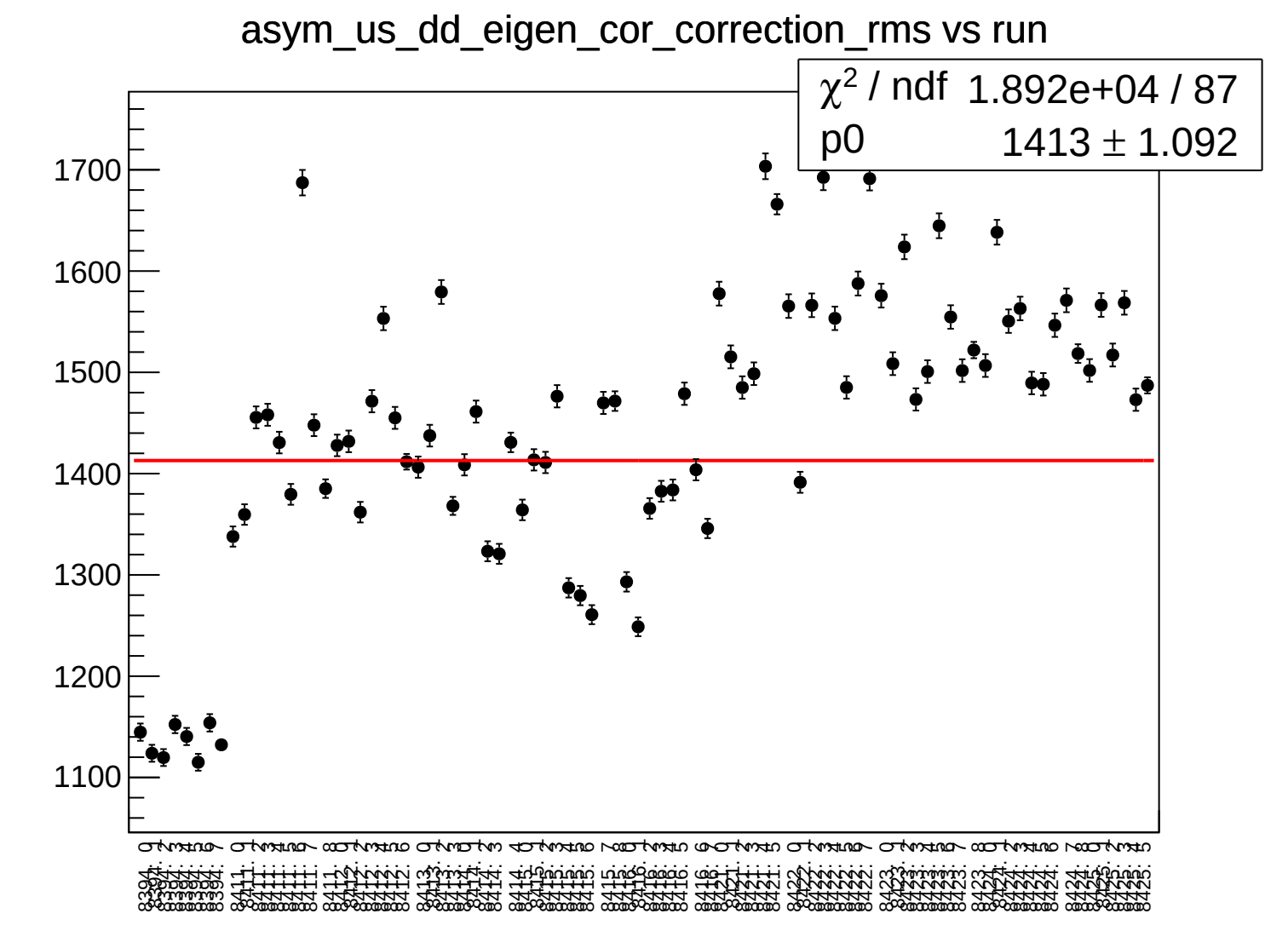

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 74.02 / 87
p0 −1360 ± 820.1
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 30.96
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

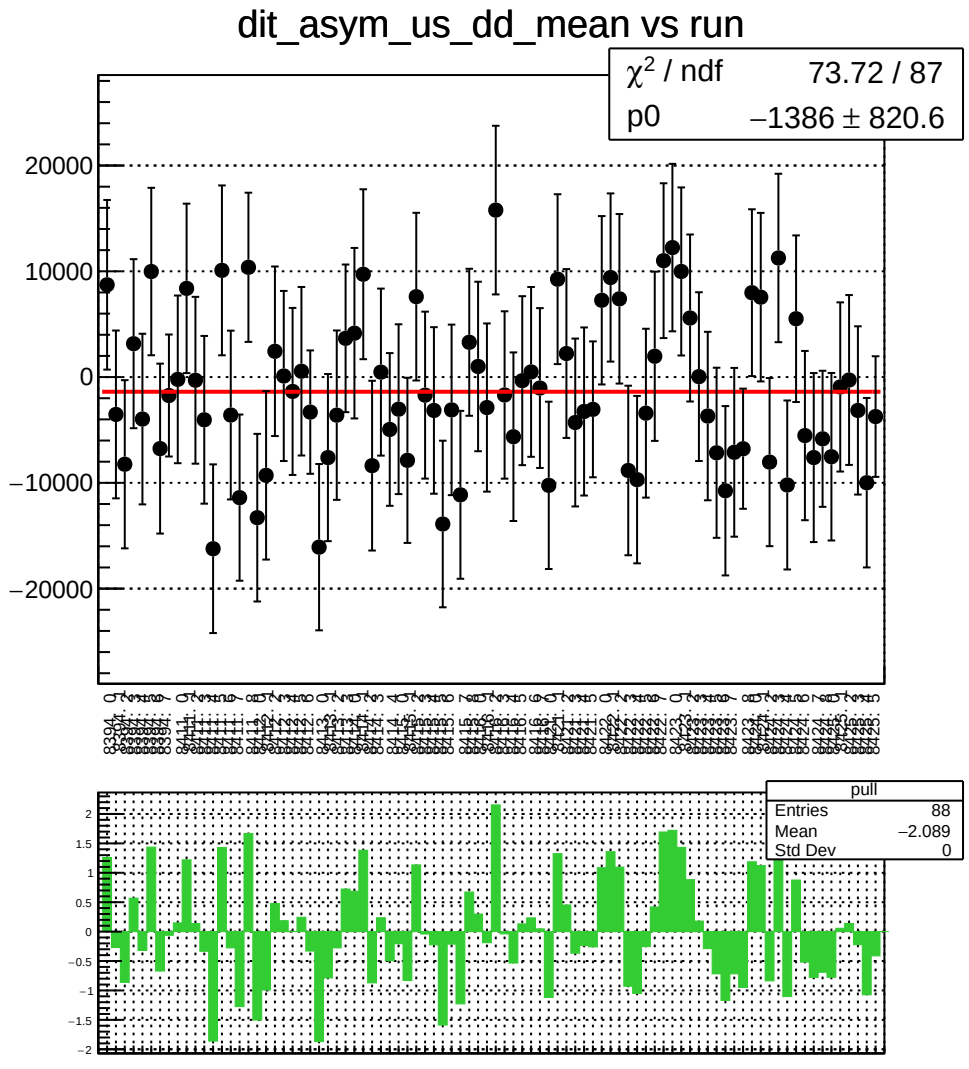

pull1D
Entries 88
Mean 0.005316
Std Dev 0.9171
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

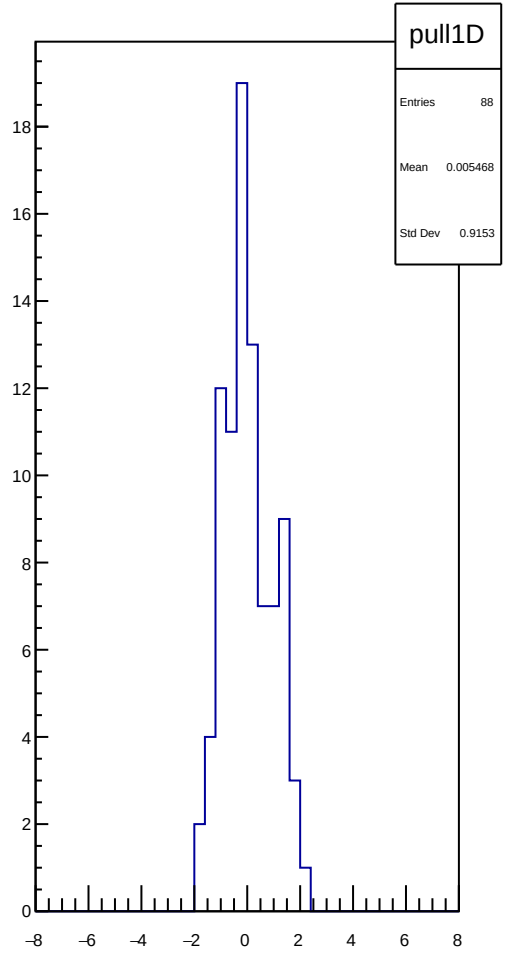

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 70.74 / 87
p0 754.4 ± 0.5799
770
765
760
755
750
745
740
735

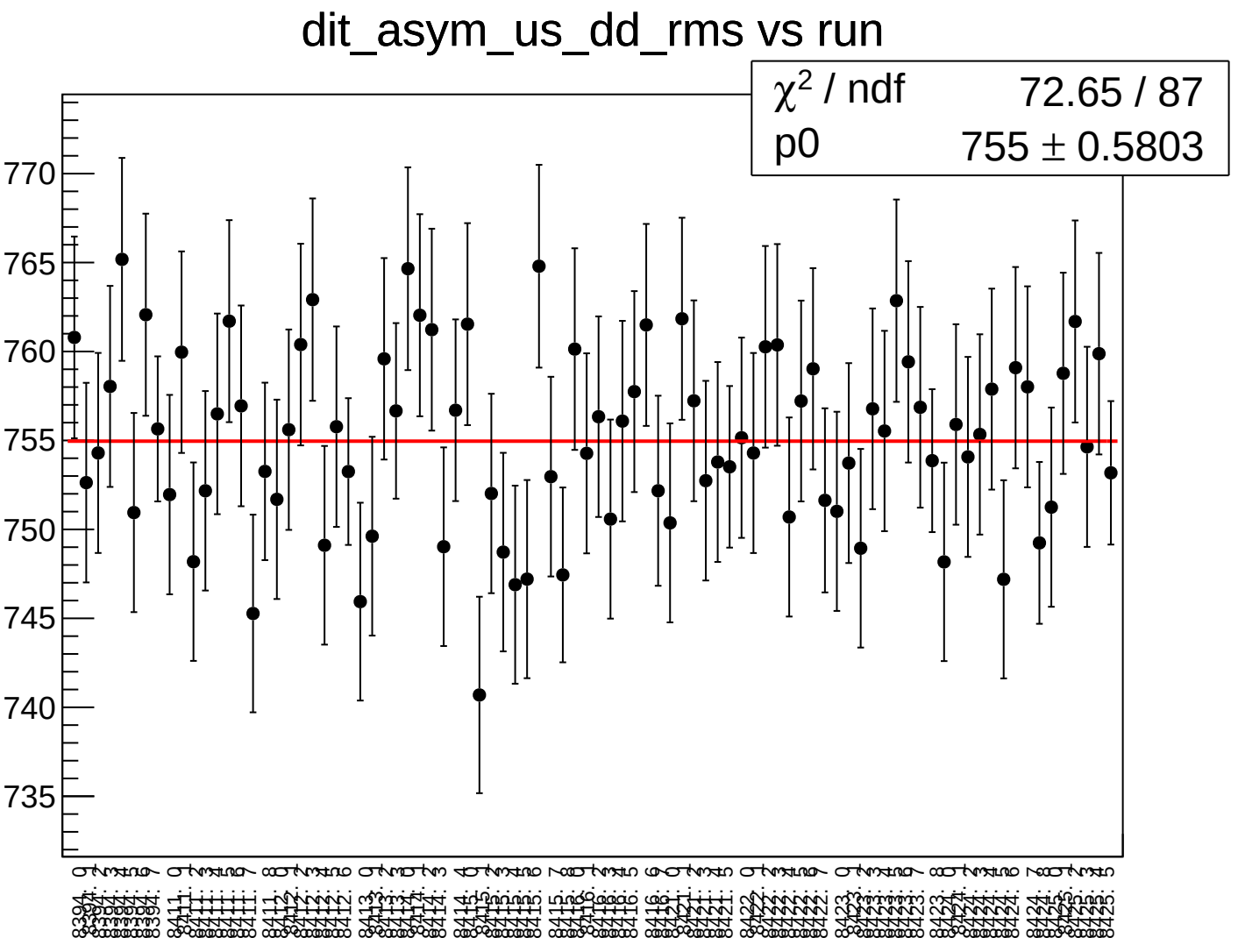

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 65.63 / 87
p0 −5522 ± 1544
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −278
Std Dev 0
2
1
0
−1
−2

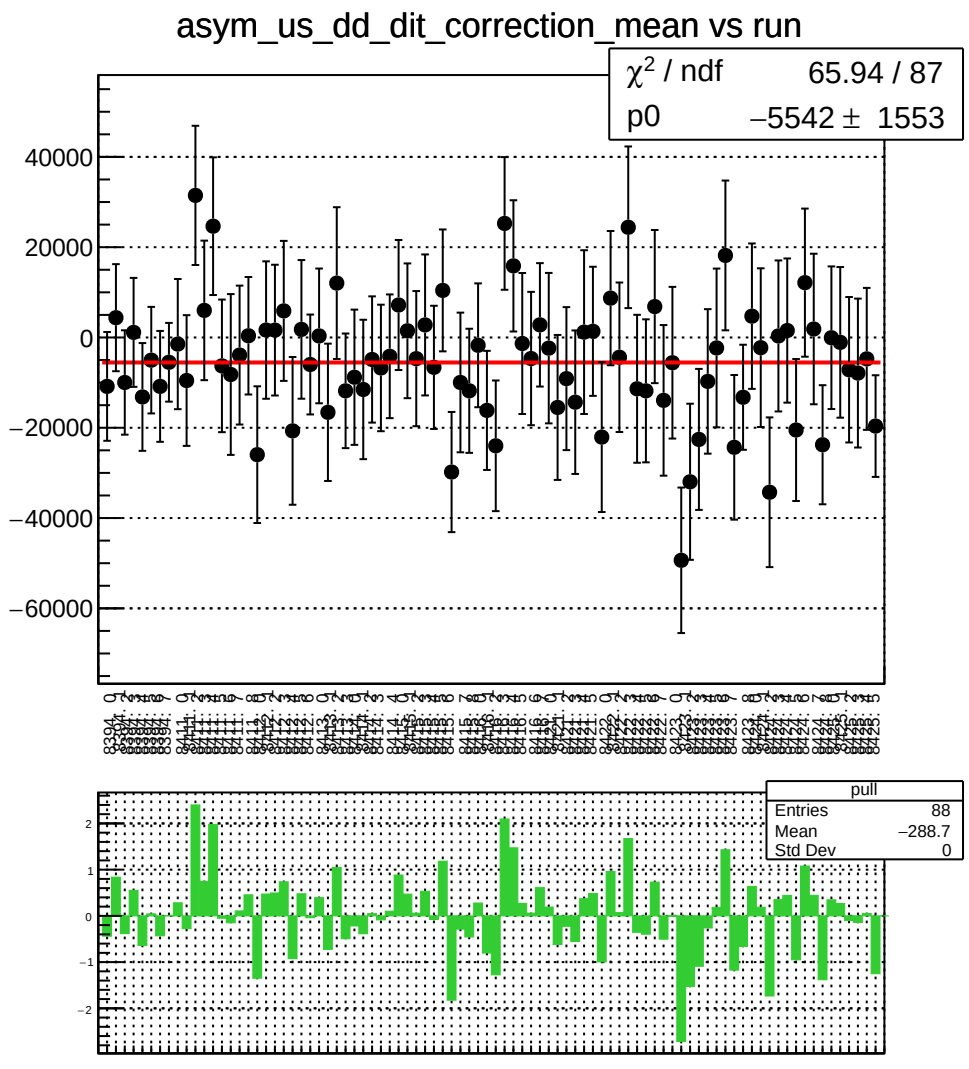

pull1D
Entries 88
Mean 0.01189
Std Dev 0.8635
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

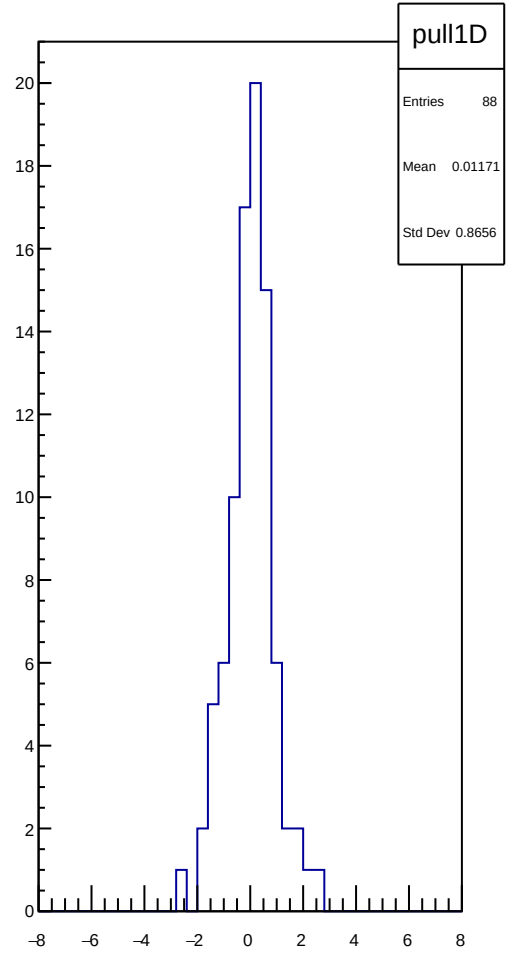

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.892e+04 / 87
p0 1413 ± 1.092
1700
1600
1500
1400
1300
1200
1100

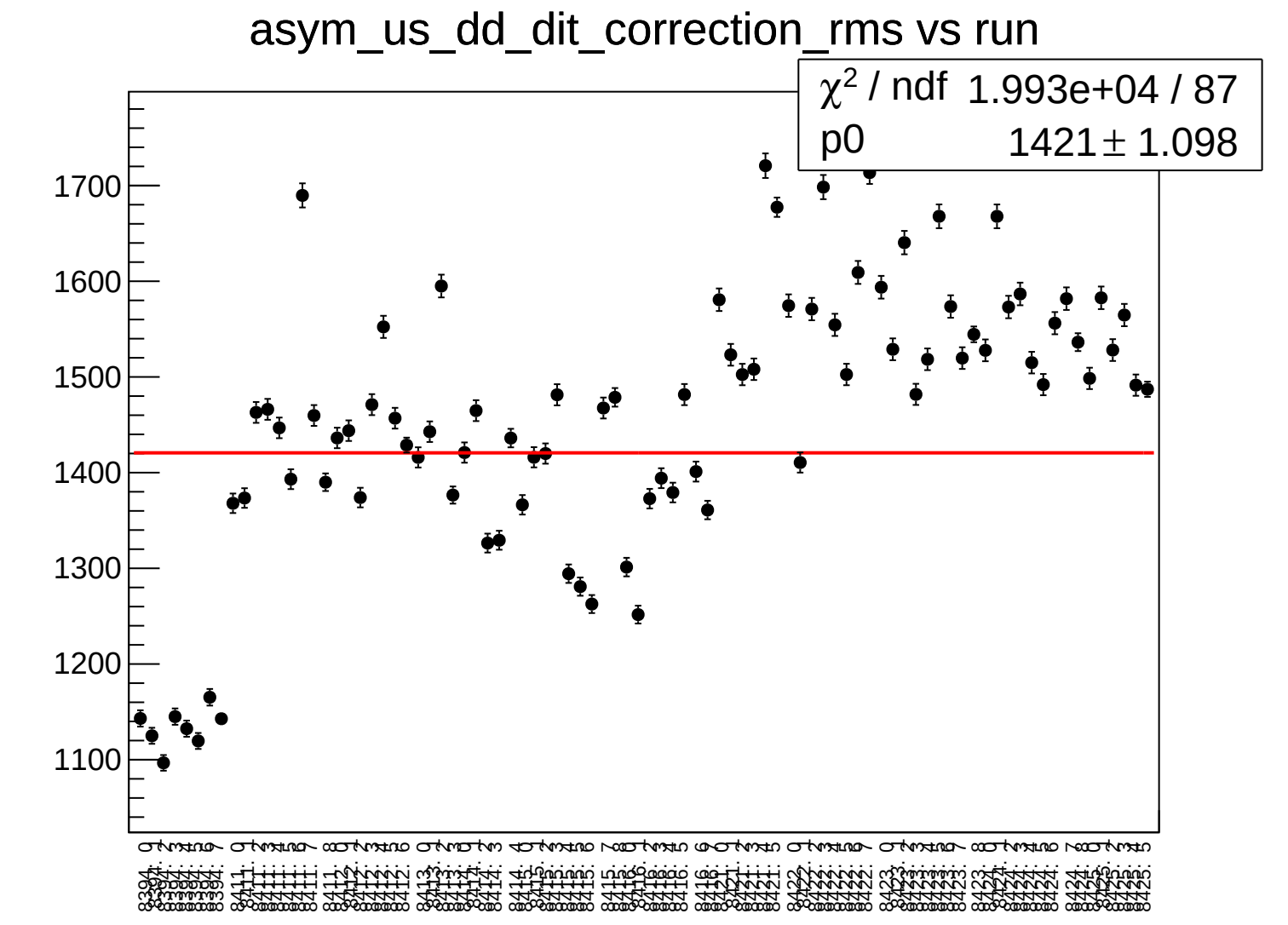

dit_asym_us_dd_mean vs run
χ² / ndf 73.72 / 87
p0 −1386 ± 820.6
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −2.089
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

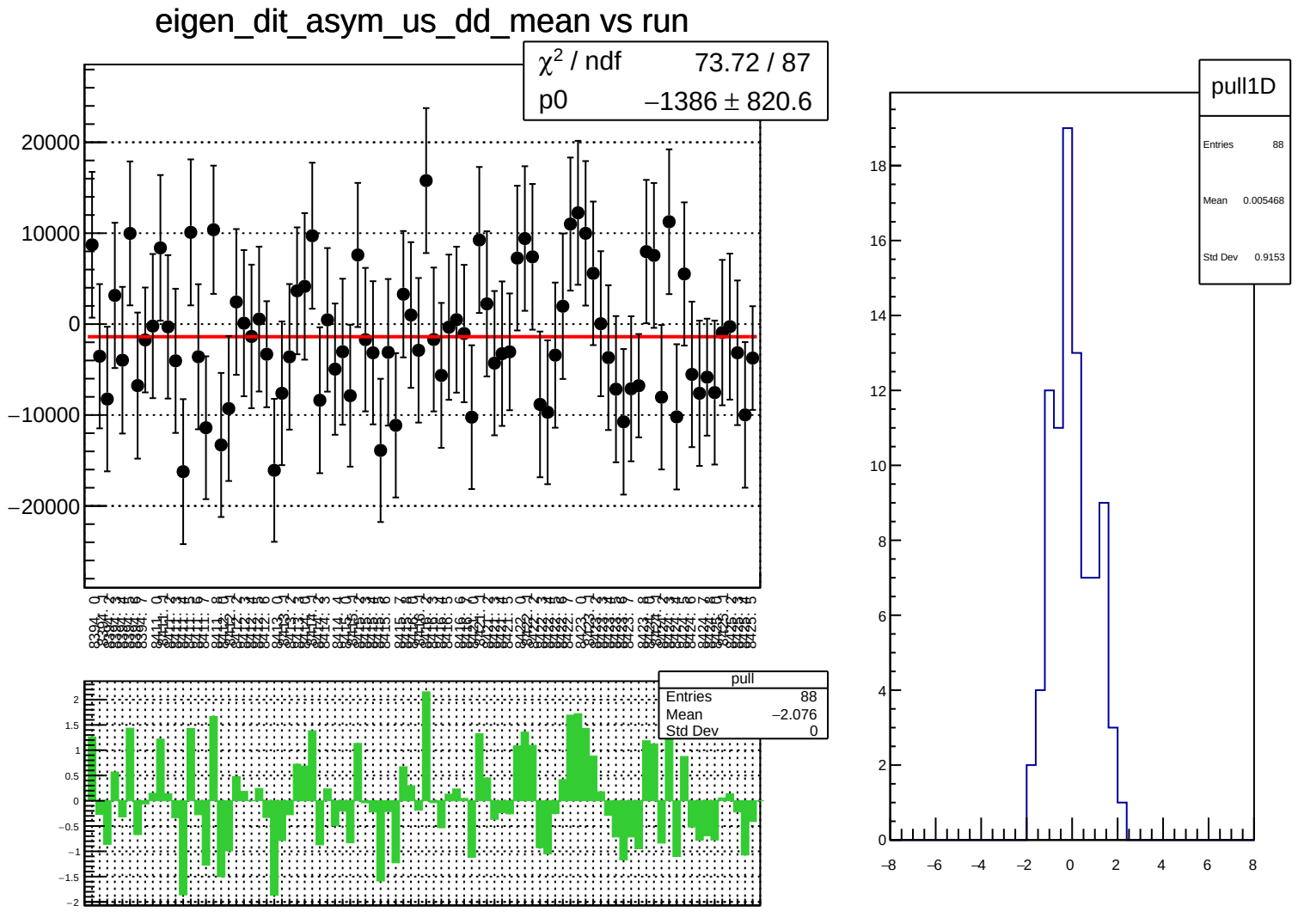

pull1D
Entries 88
Mean 0.005468
Std Dev 0.9153
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

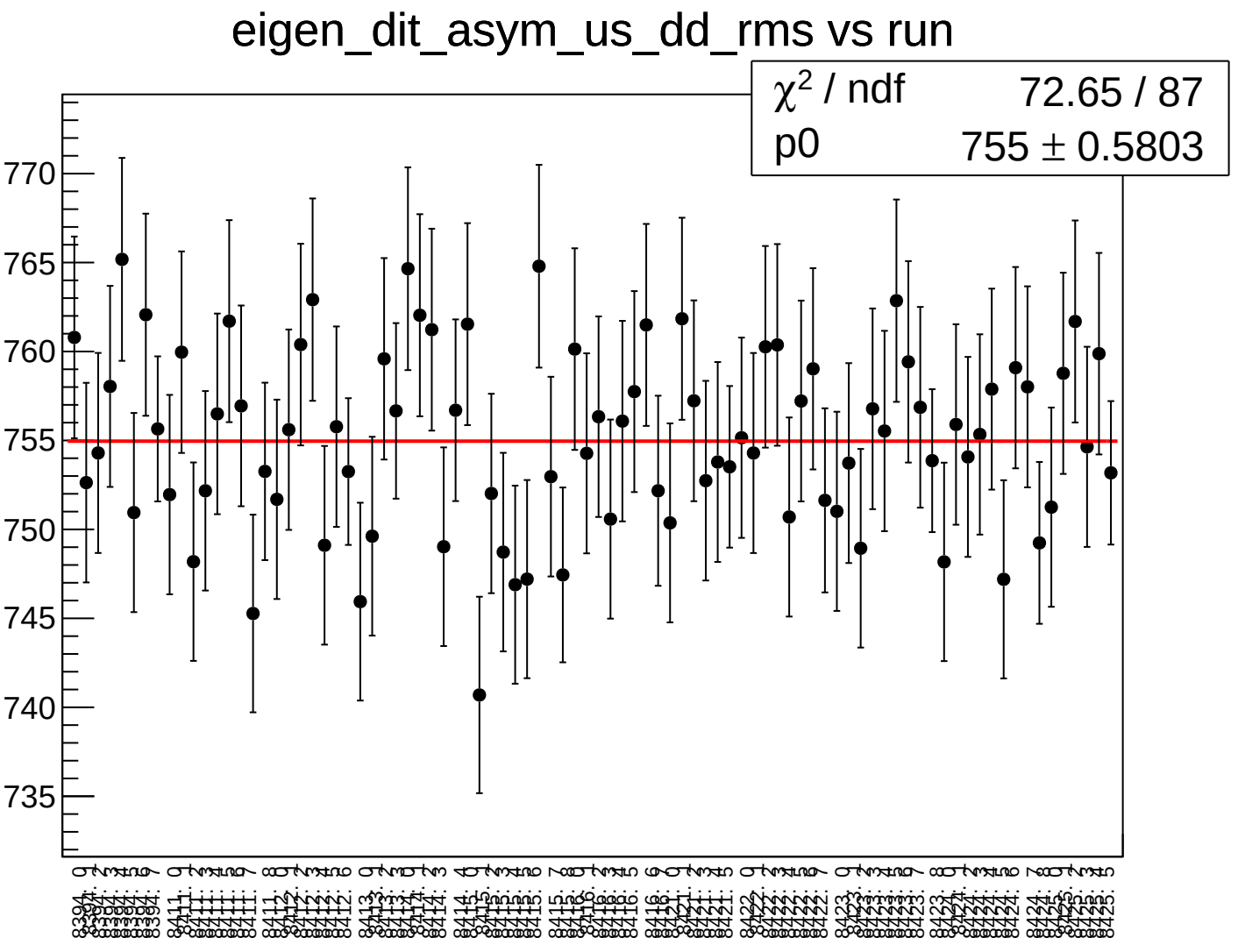

dit_asym_us_dd_rms vs run
χ^2 / ndf 72.65 / 87
p0 755 ± 0.5803
770
765
760
755
750
745
740
735

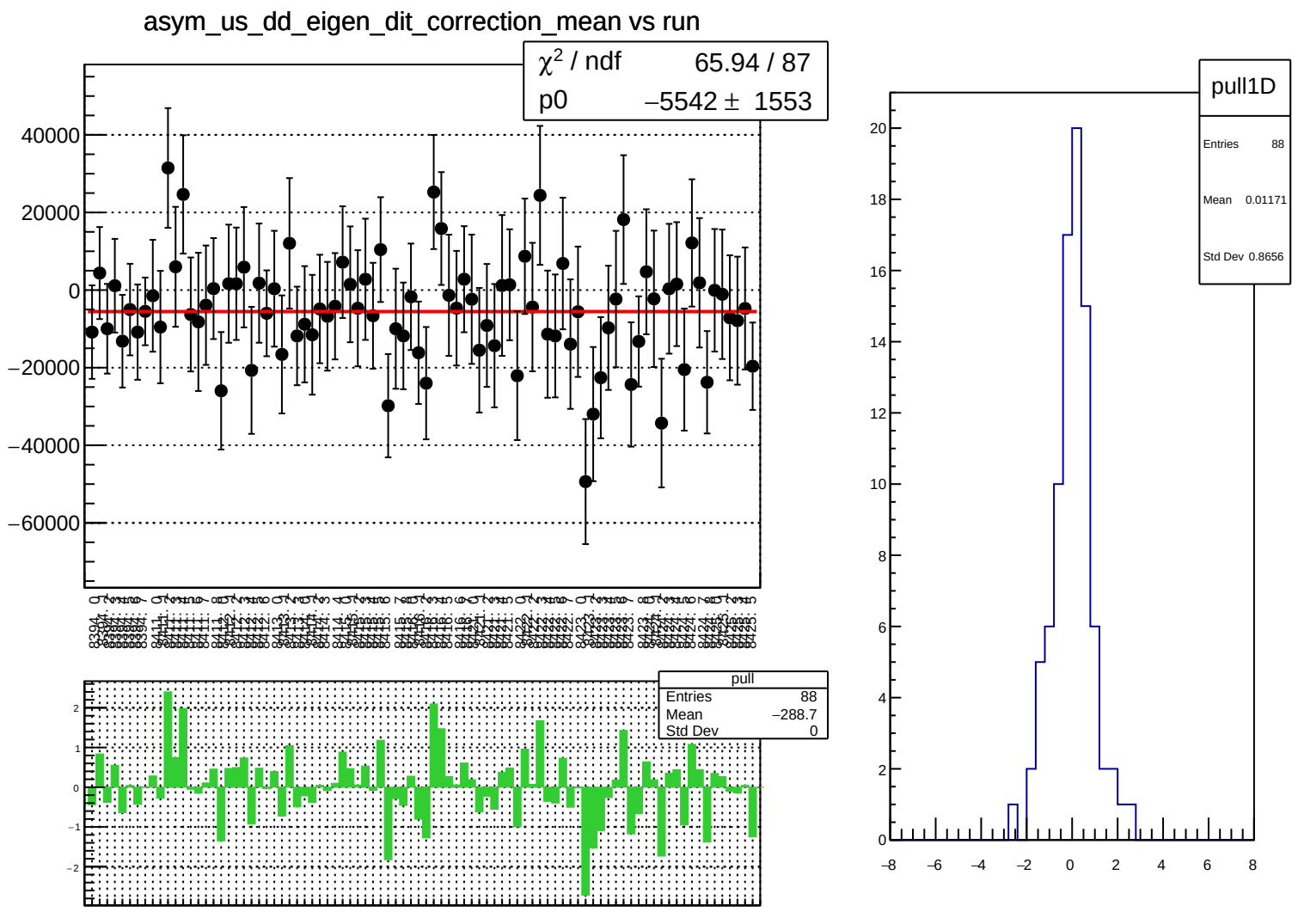

asym_us_dd_dit_correction_mean vs run
χ² / ndf 65.94 / 87
p0 −5542 ± 1553
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −288.7
Std Dev 0
2
1
0
−1
−2

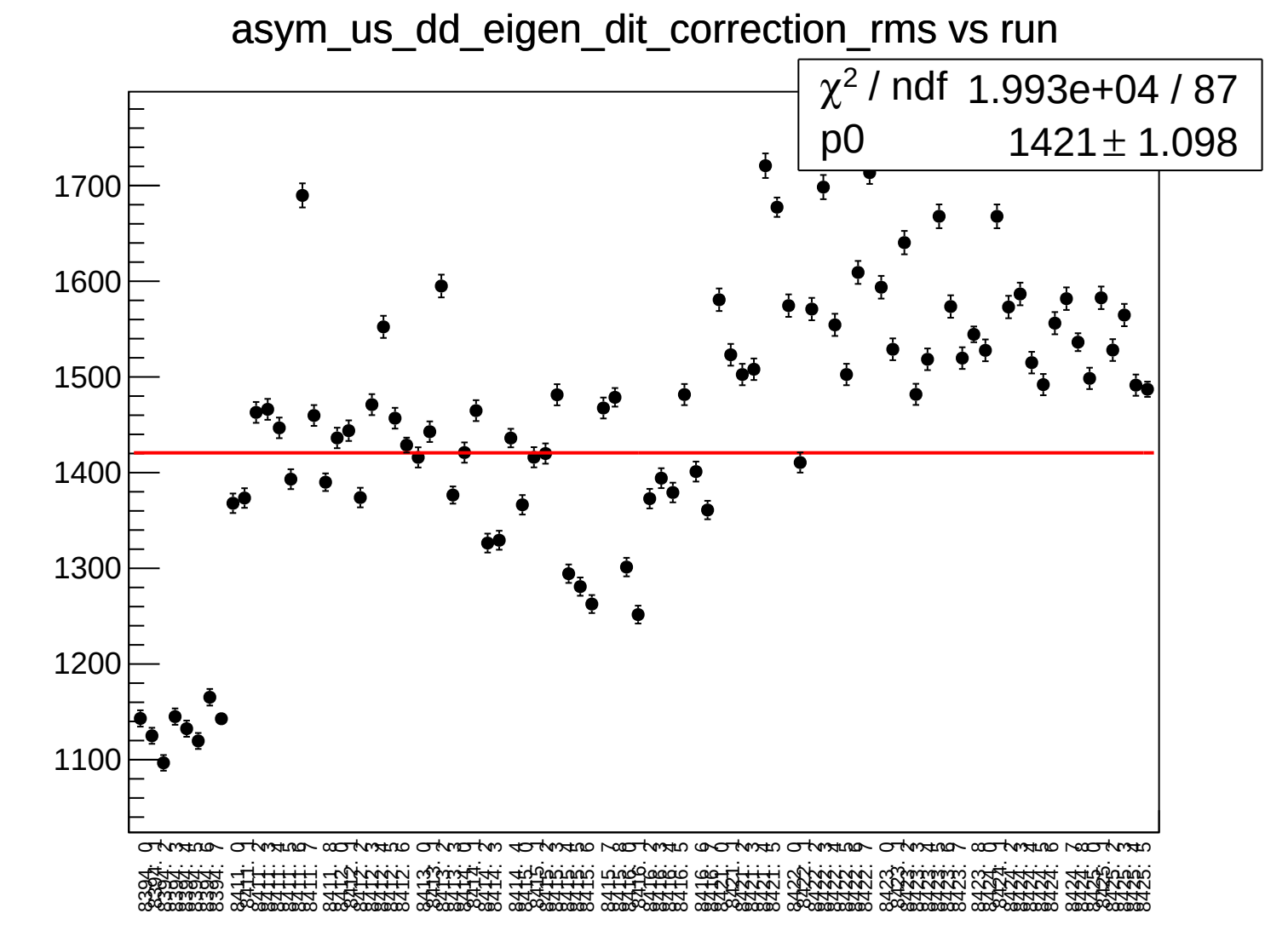

pull1D
Entries 88
Mean 0.01171
Std Dev 0.8656
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

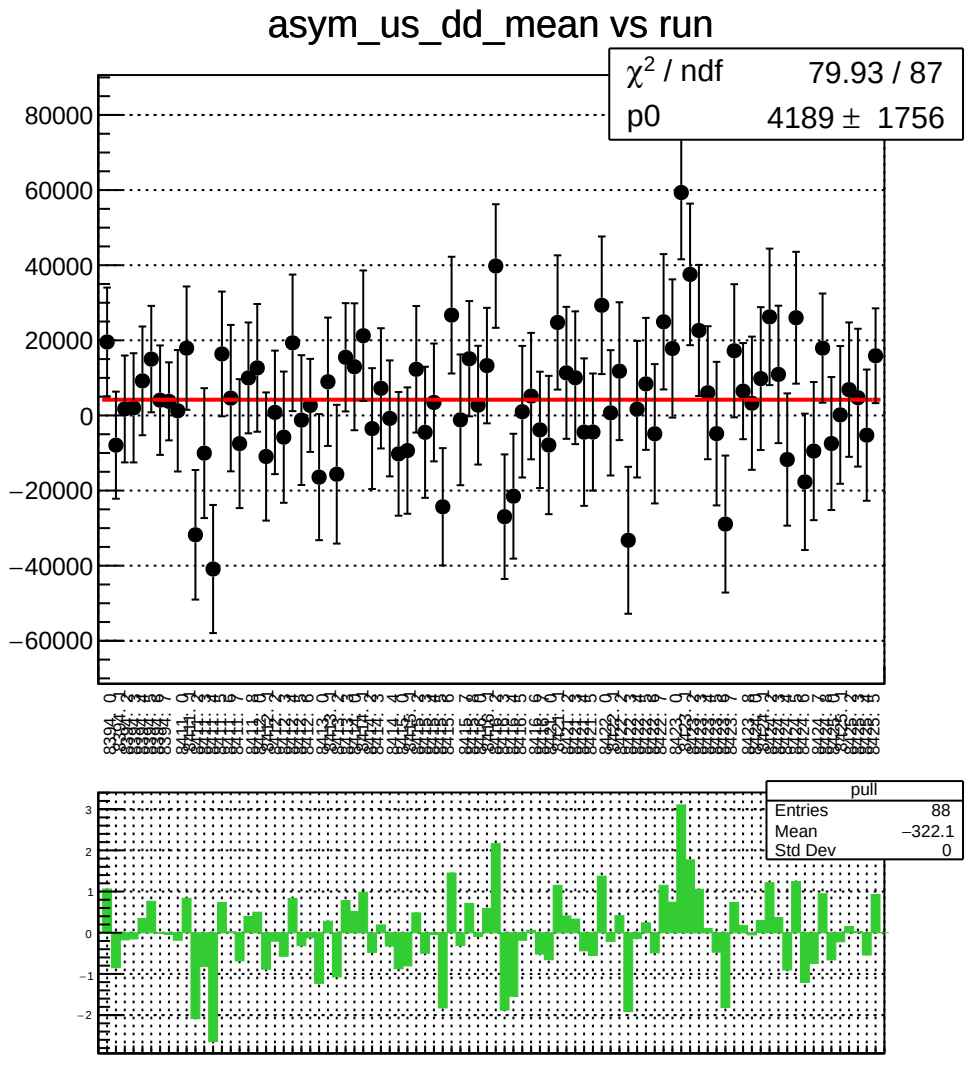

asym_us_dd_dit_correction_rms vs run
χ² / ndf 1.993e+04 / 87
p0 1421 ± 1.098
1700
1600
1500
1400
1300
1200
1100

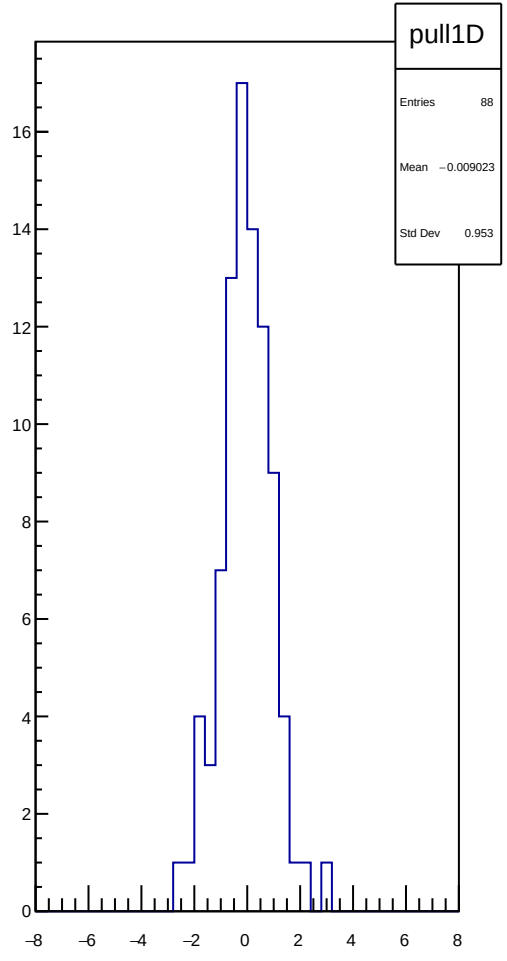

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 73.72 / 87
p0 −1386 ± 820.6
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −2.076
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean 0.005468
Std Dev 0.9153
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

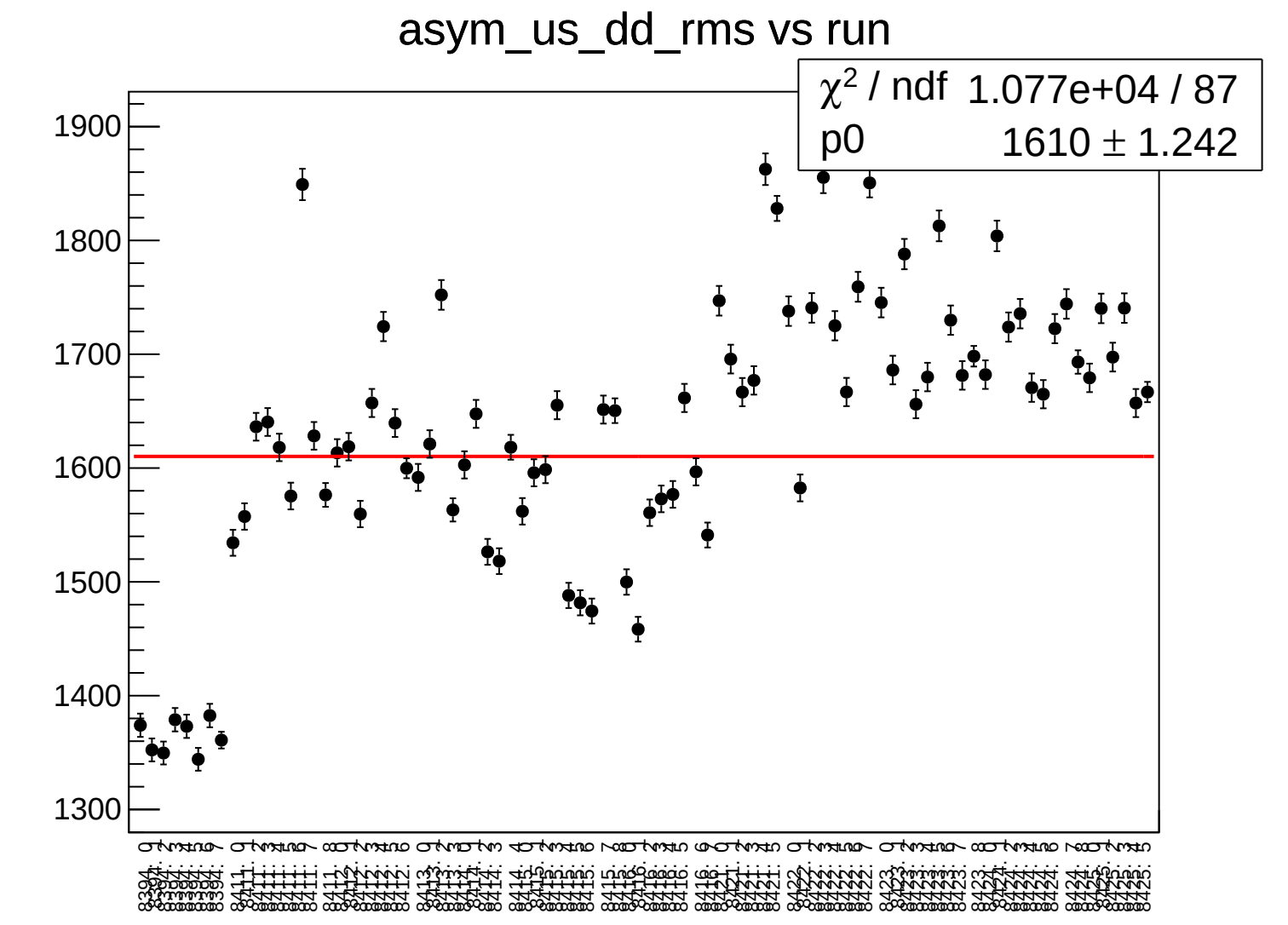

eigen_dit_asym_us_dd_rms vs run
χ^2 / ndf 72.65 / 87
p0 755 ± 0.5803
770
765
760
755
750
745
740
735

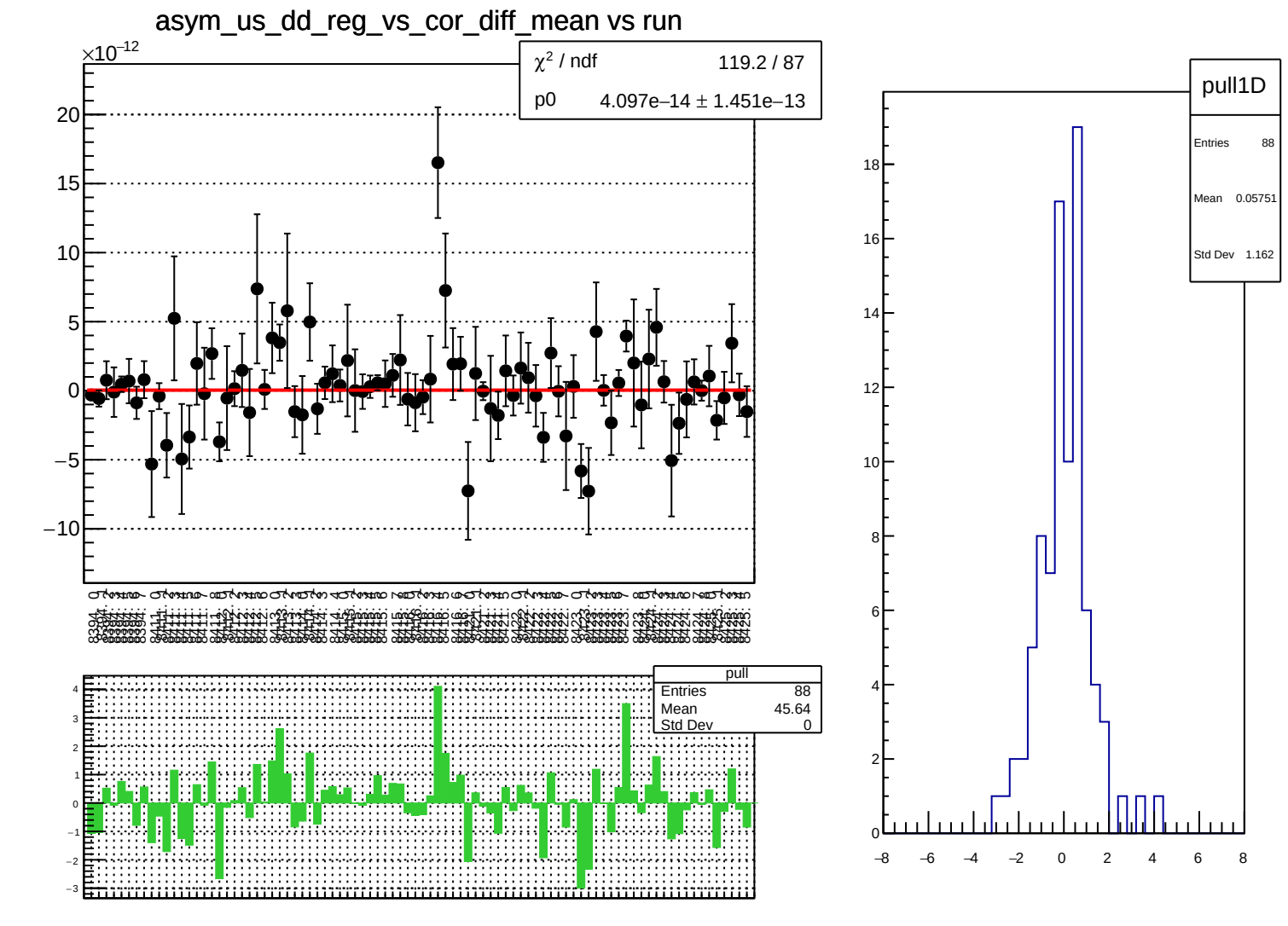

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 65.94 / 87
p0 −5542 ± 1553
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −288.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01171
Std Dev 0.8656
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

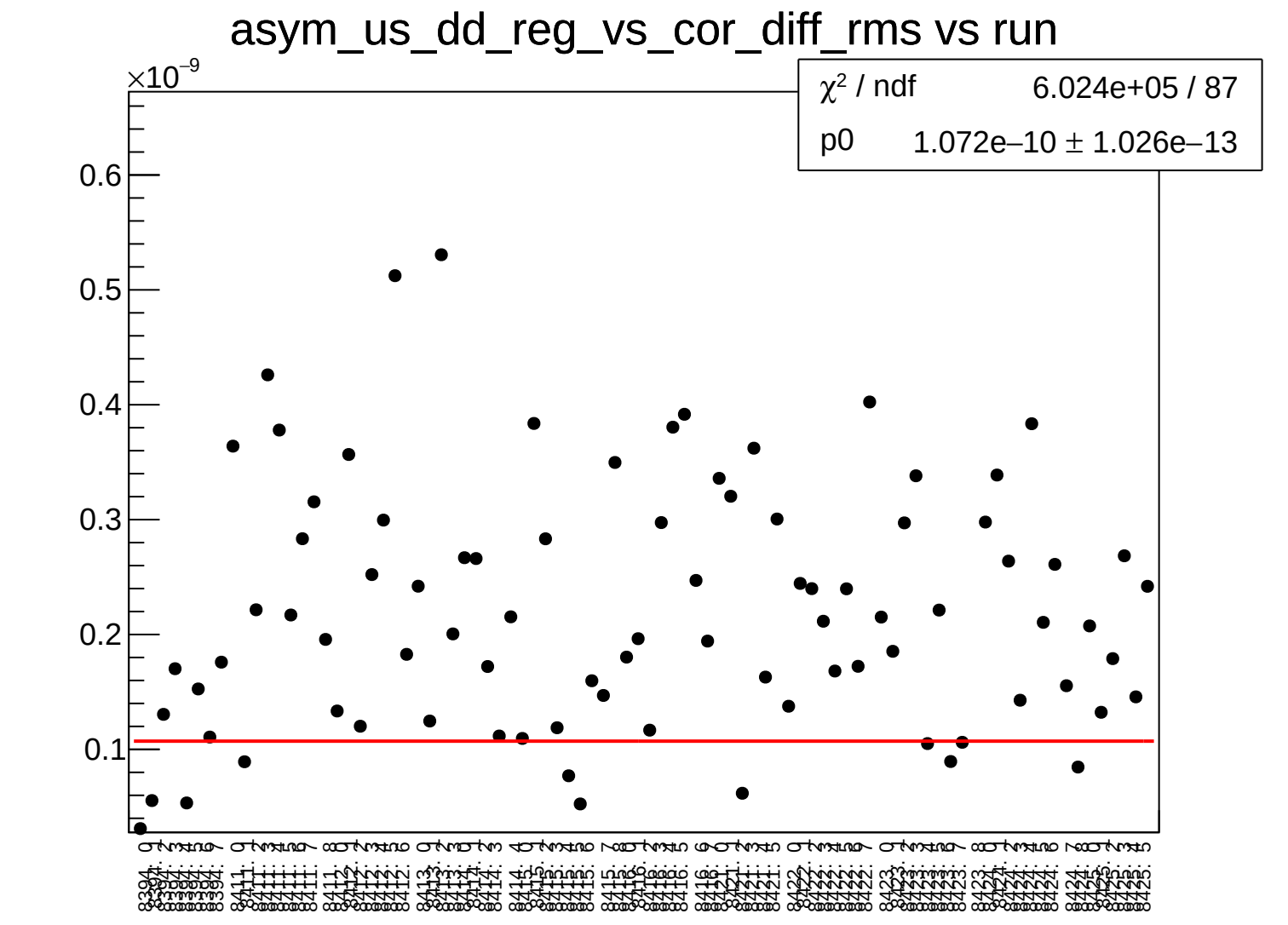

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.993e+04 / 87
p0 1421 ± 1.098
1700
1600
1500
1400
1300
1200
1100

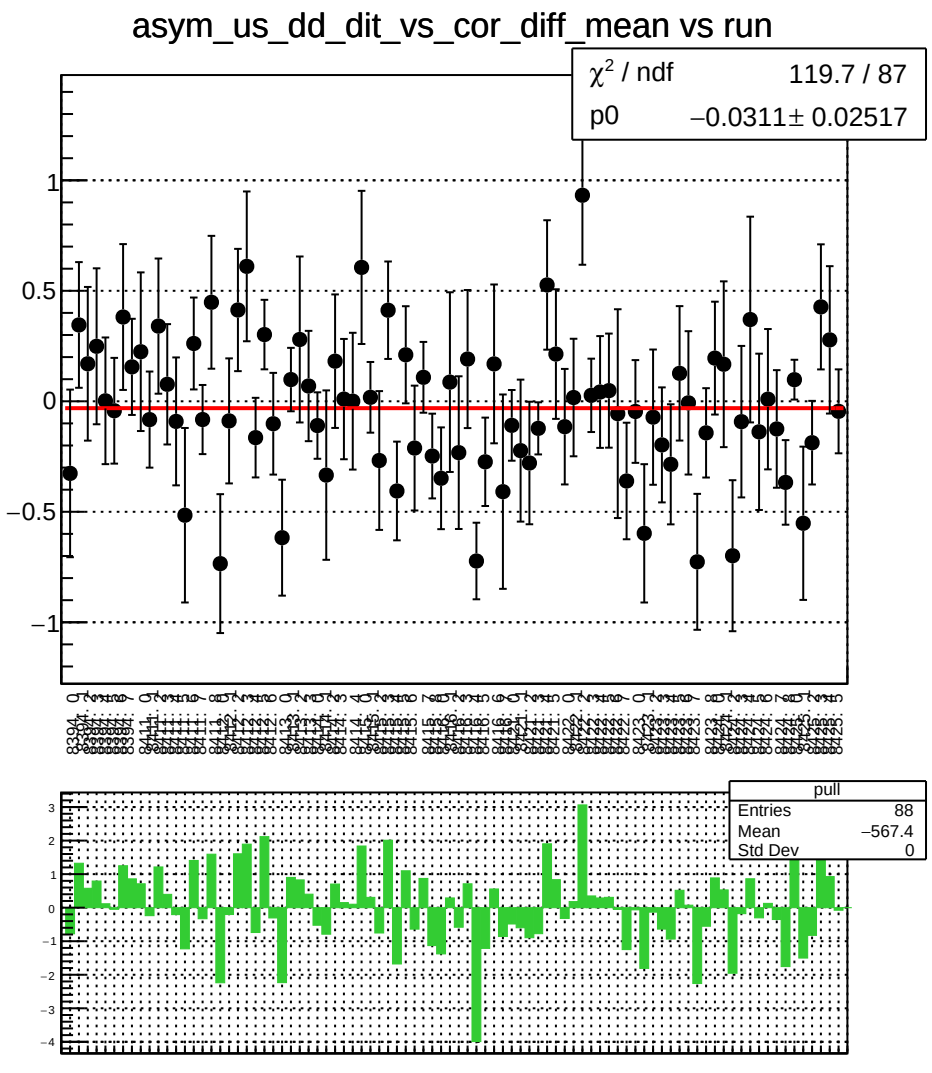

asym_us_dd_mean vs run
χ^2 / ndf 79.93 / 87
p0 4189 ± 1756
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −322.1
Std Dev 0
3
2
1
0
−1
−2

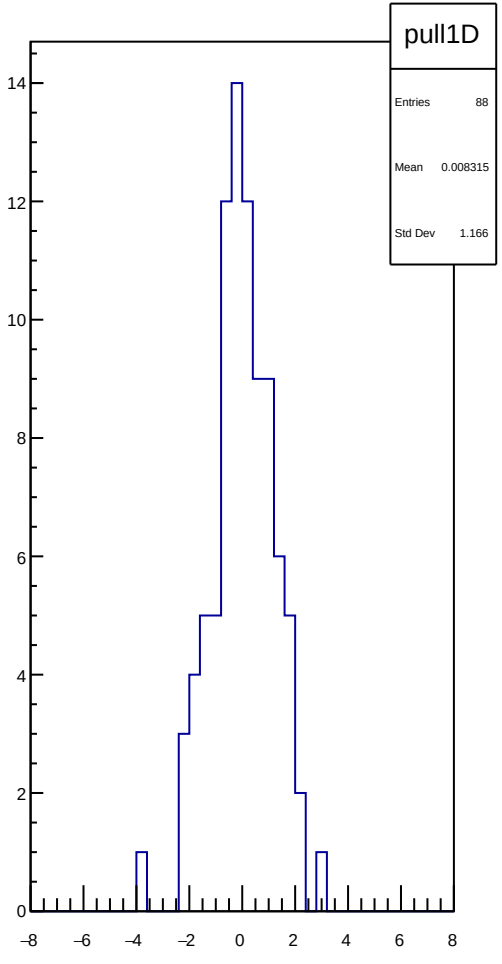

pull1D
Entries 88
Mean −0.009023
Std Dev 0.953
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

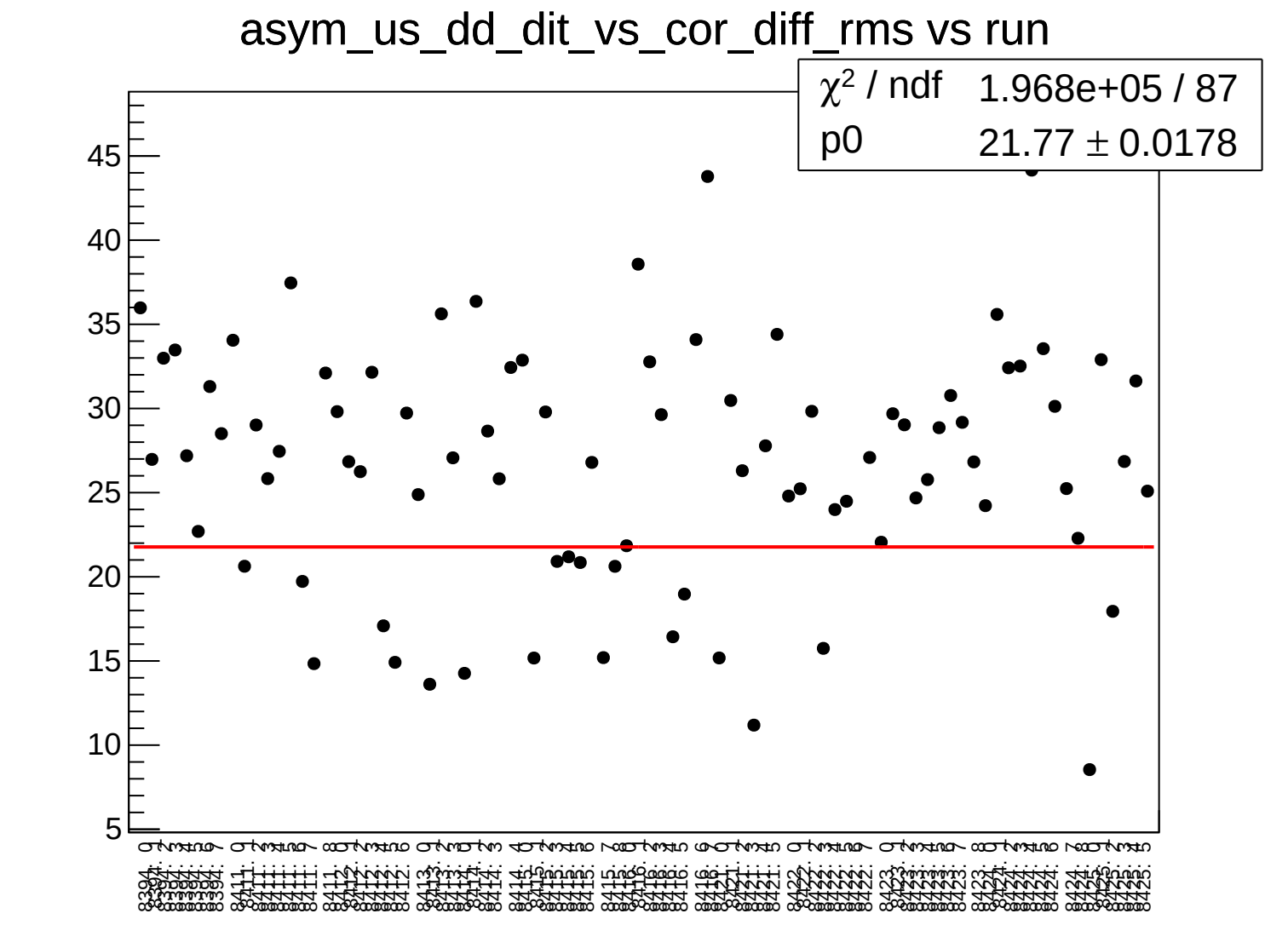

asym_us_dd_rms vs run
χ² / ndf 1.077e+04 / 87
p0 1610 ± 1.242
1900
1800
1700
1600
1500
1400
1300

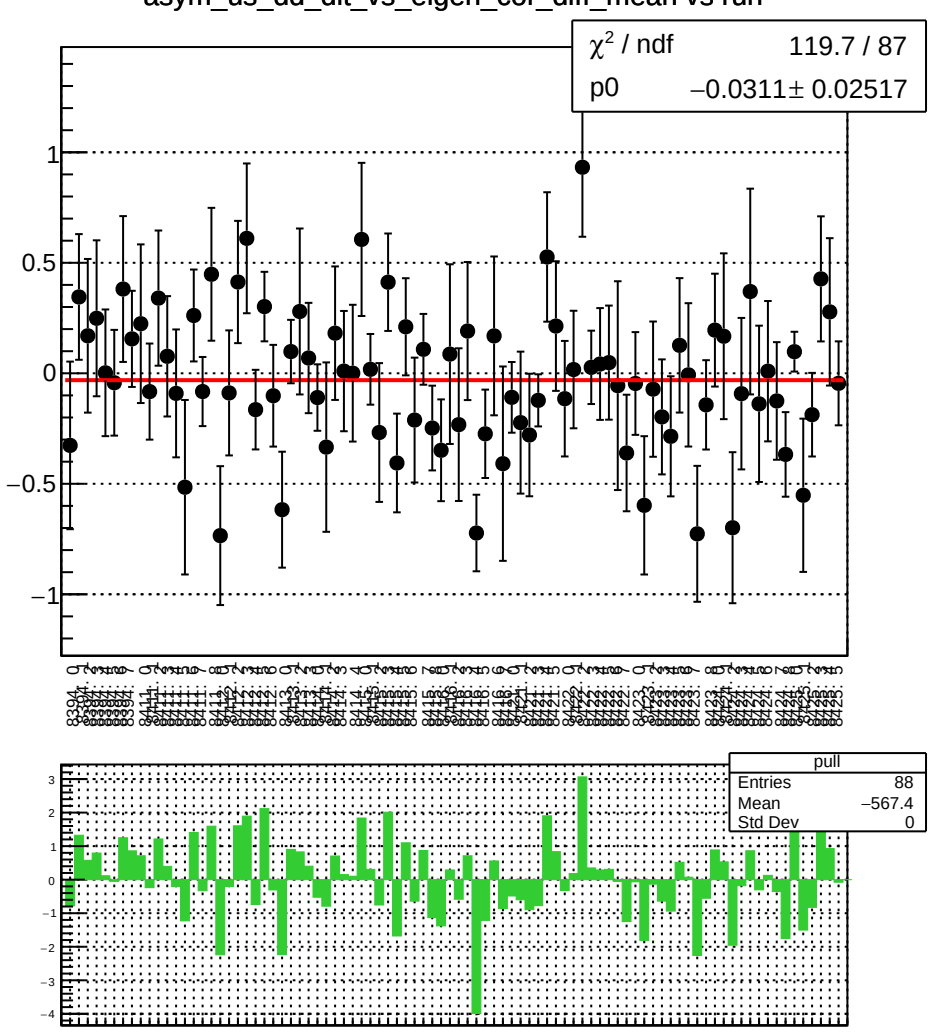

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 119.2 / 87
p0 4.097e−14 ± 1.451e−13
pull
Entries 88
Mean 45.64
Std Dev 0
pull1D
Entries 88
Mean 0.05751
Std Dev 1.162

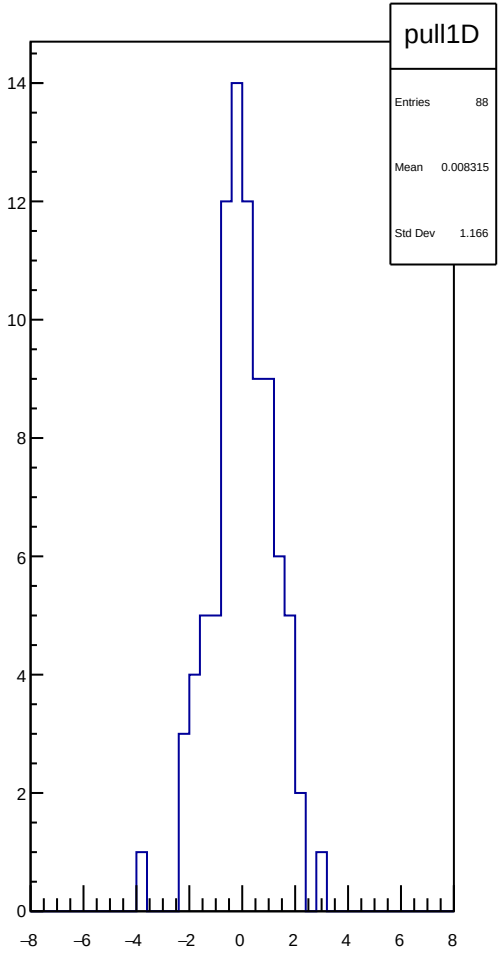

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.024e+05 / 87
p0 1.072e−10 ± 1.026e−13
0.6
0.5
0.4
0.3
0.2
0.1

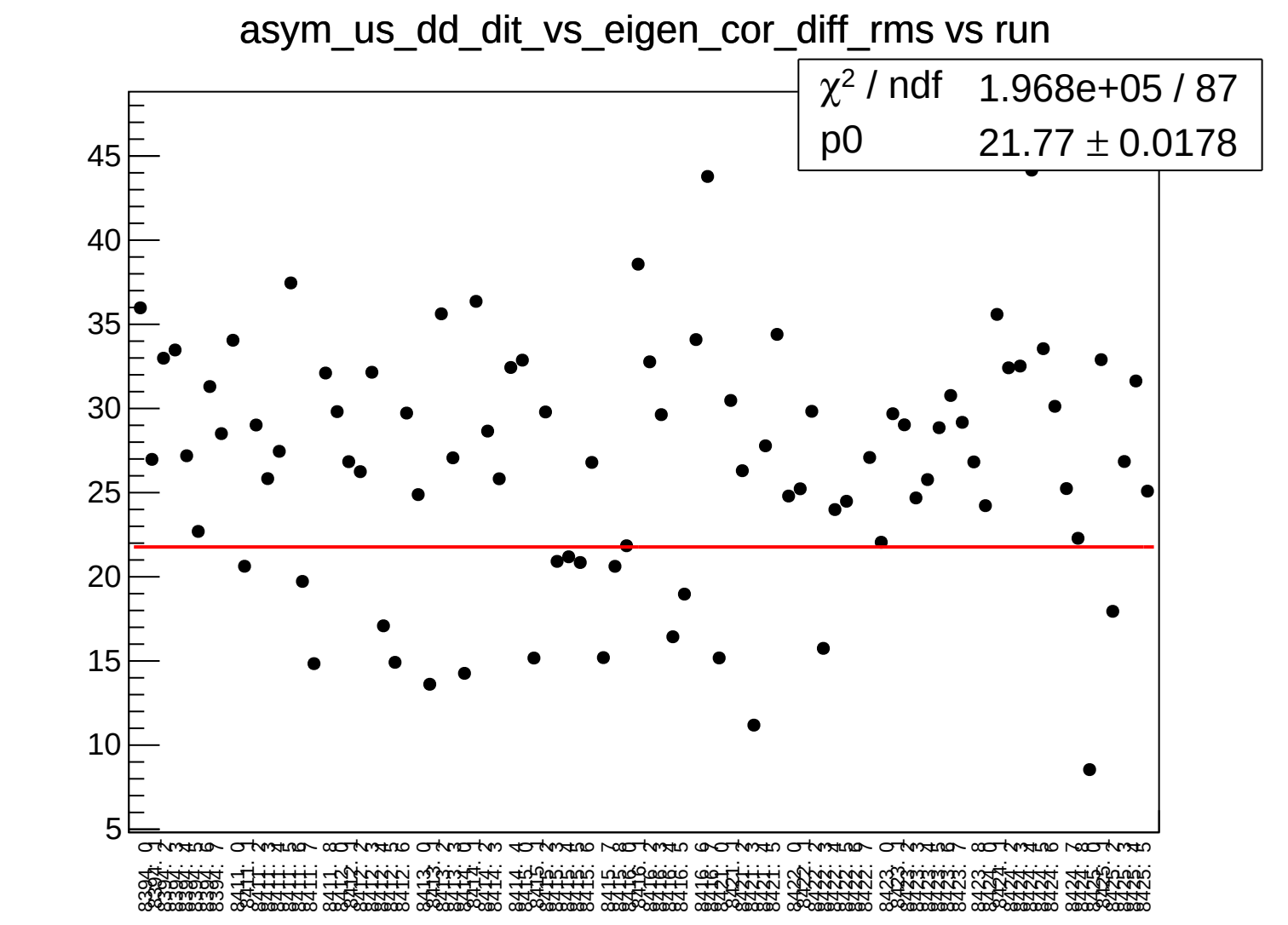

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 119.7 / 87
p0 −0.0311± 0.02517
pull
Entries 88
Mean −567.4
Std Dev 0

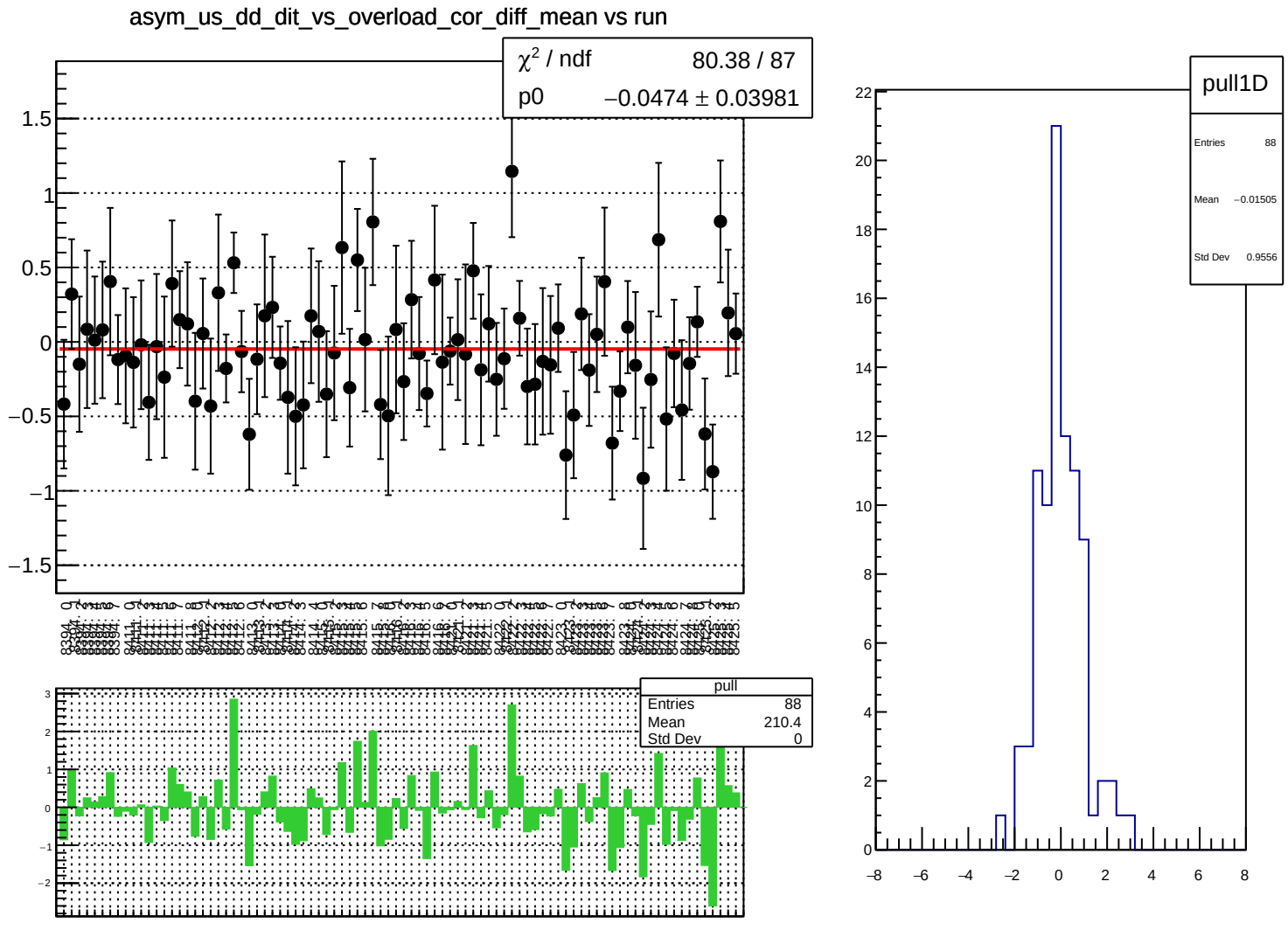

pull1D
Entries 88
Mean 0.008315
Std Dev 1.166

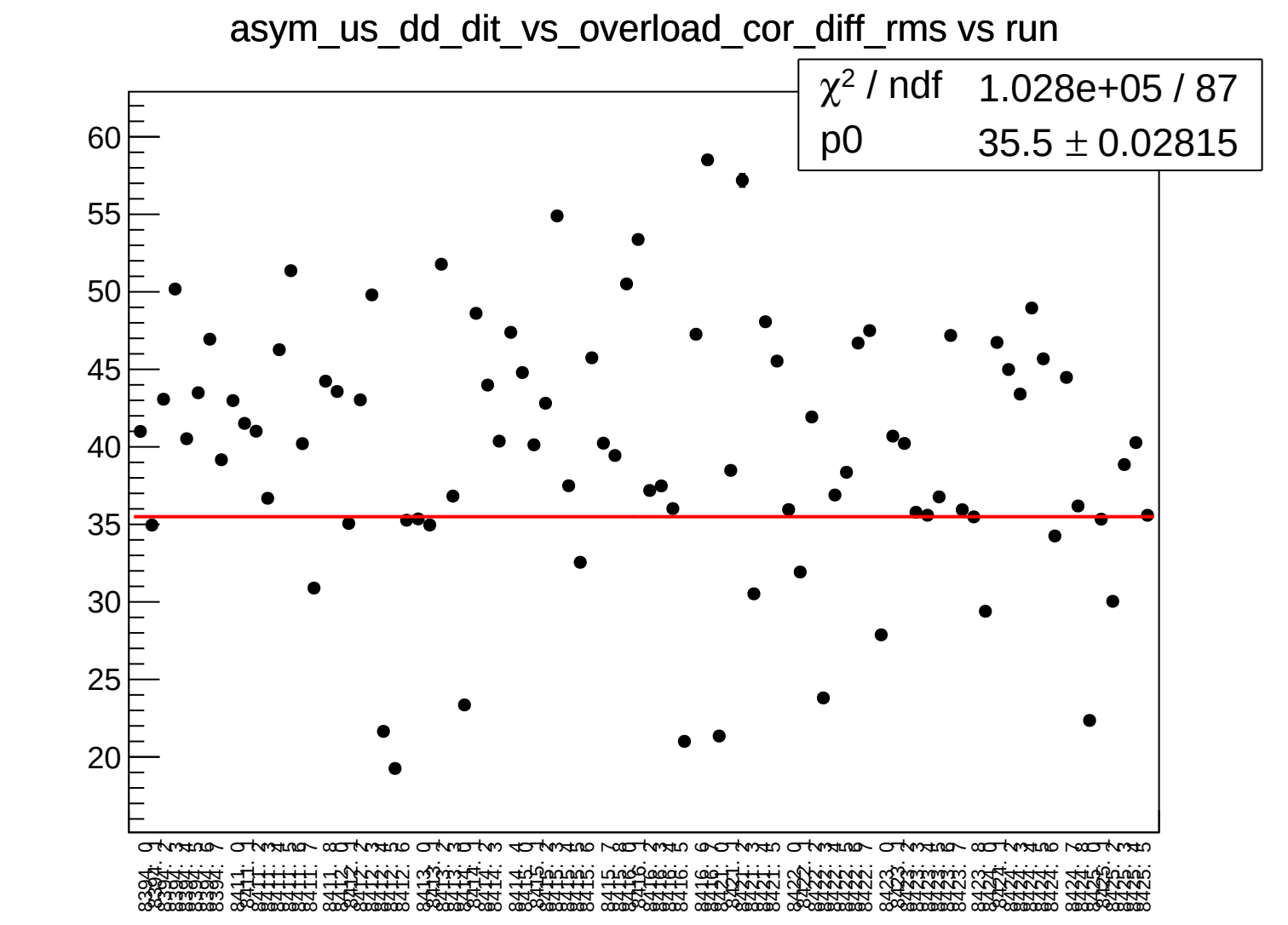

asym_us_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.968e+05 / 87
p0 21.77 ± 0.0178
45
40
35
30
25
20
15
10
5

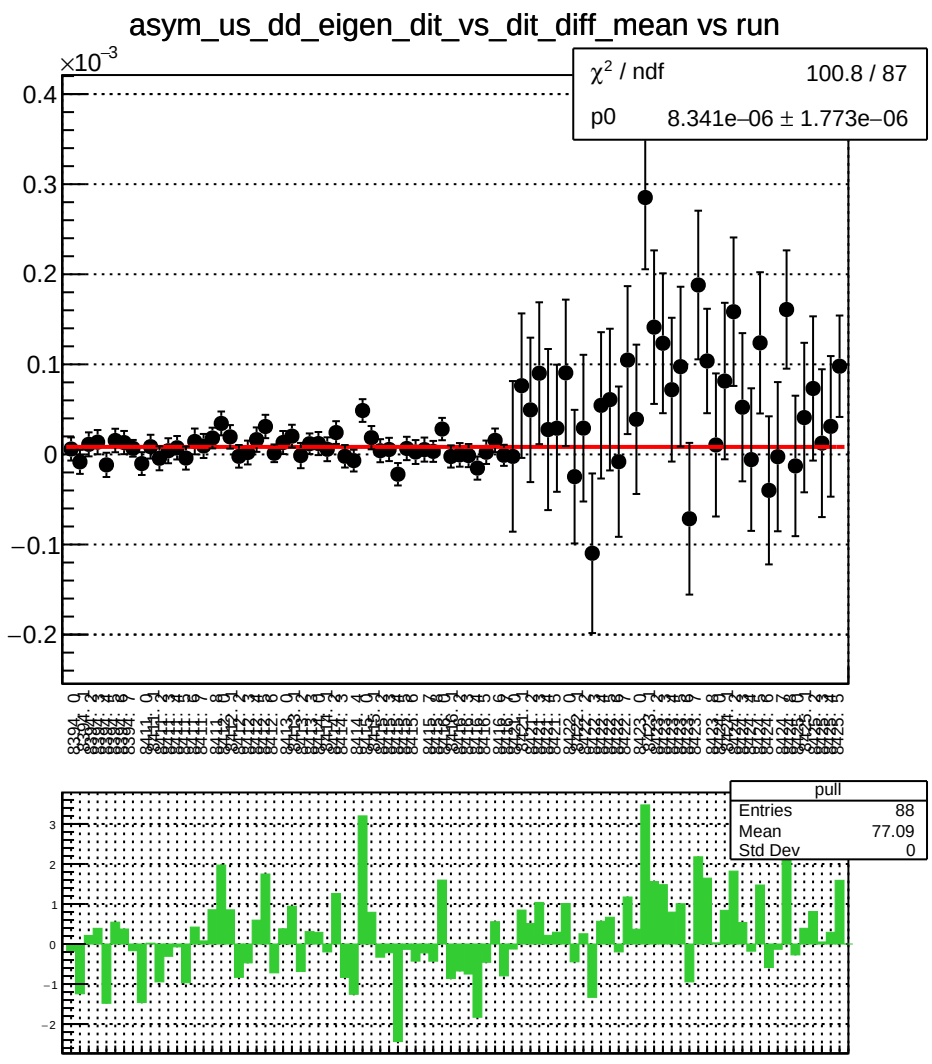

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119.7 / 87
p0 −0.0311± 0.02517
pull
Entries 88
Mean −567.4
Std Dev 0

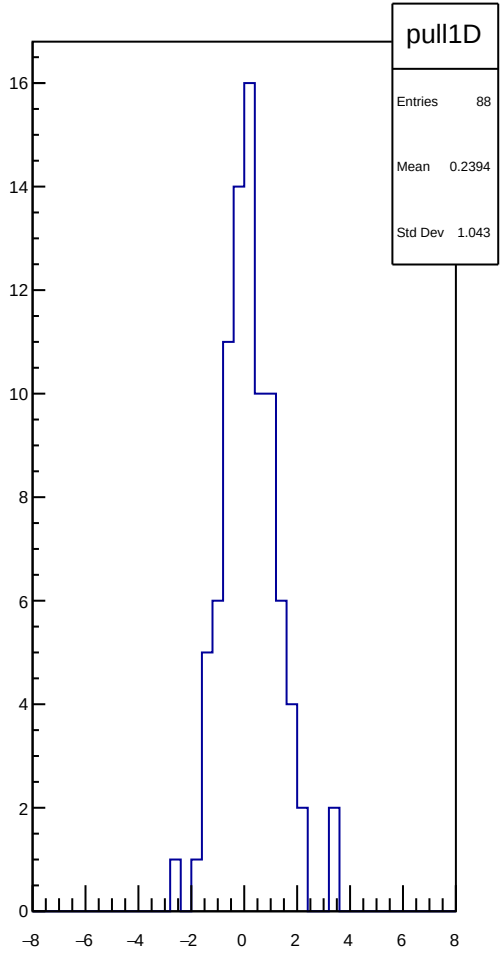

pull1D
Entries 88
Mean 0.008315
Std Dev 1.166

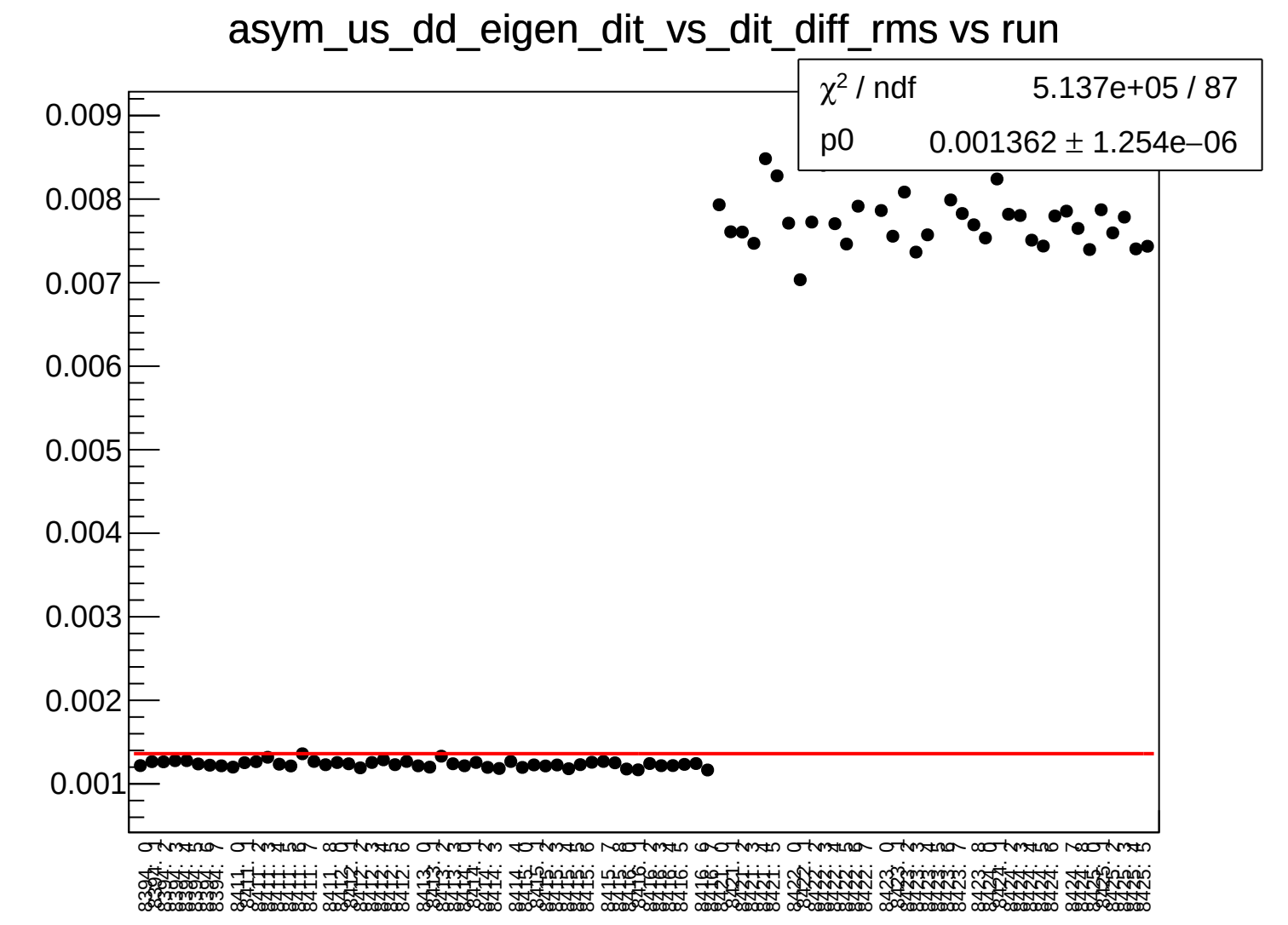

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.968e+05 / 87
p0 21.77 ± 0.0178
45
40
35
30
25
20
15
10
5

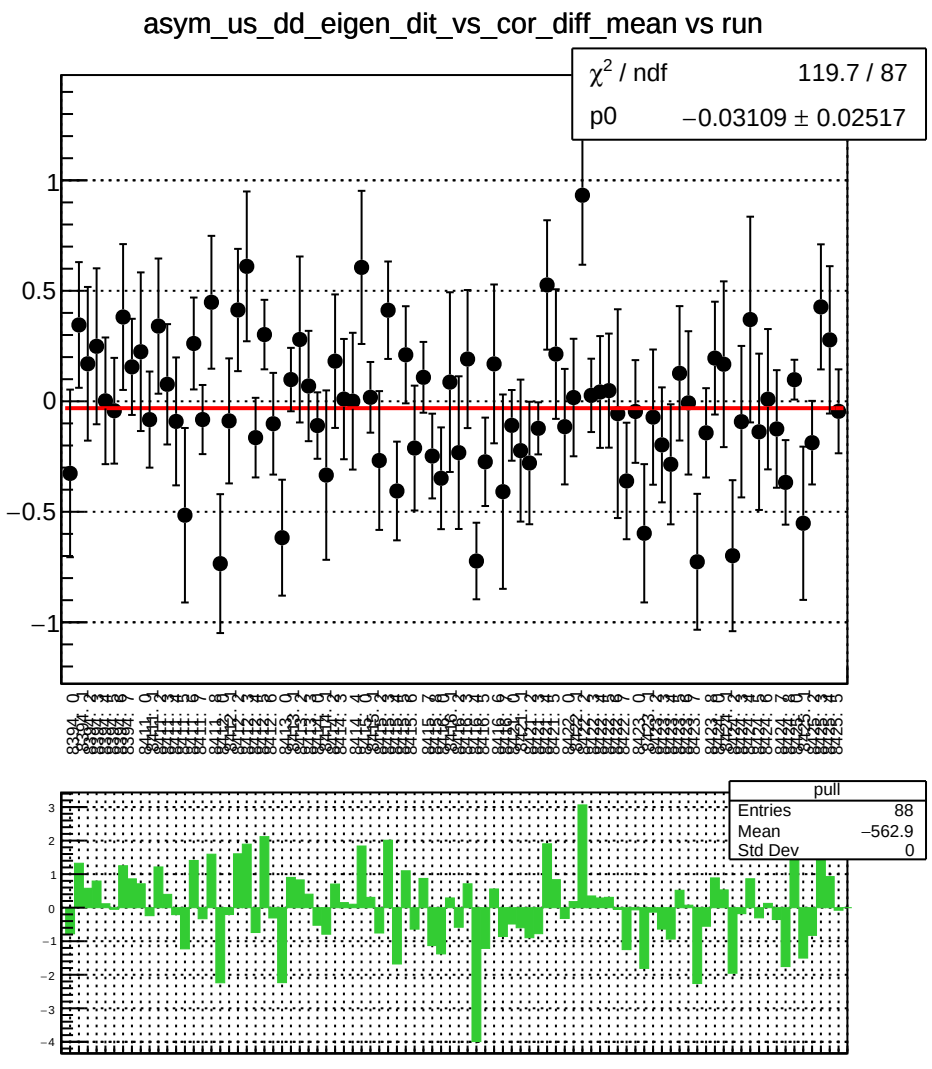

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 80.38 / 87
p0 −0.0474 ± 0.03981
pull
Entries 88
Mean 210.4
Std Dev 0
pull1D
Entries 88
Mean −0.01505
Std Dev 0.9556

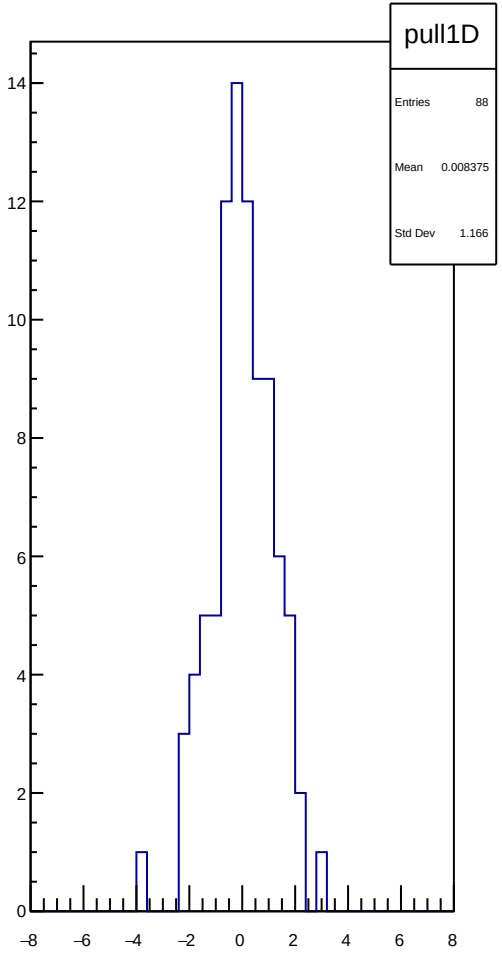

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.028e+05 / 87
p0 35.5 ± 0.02815
60
55
50
45
40
35
30
25
20

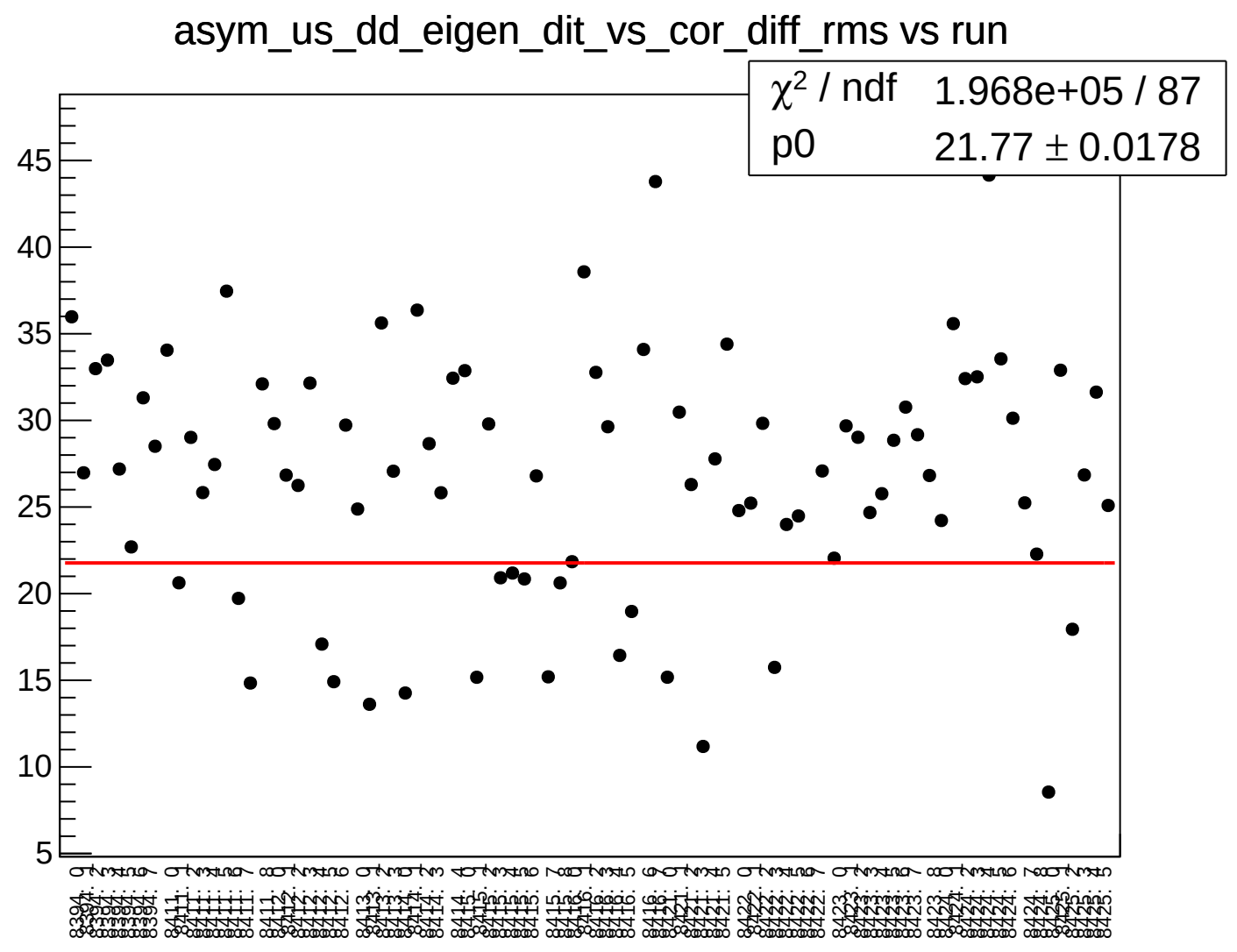

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.8 / 87
p0 8.341e−06 ± 1.773e−06
pull
Entries 88
Mean 77.09
Std Dev 0

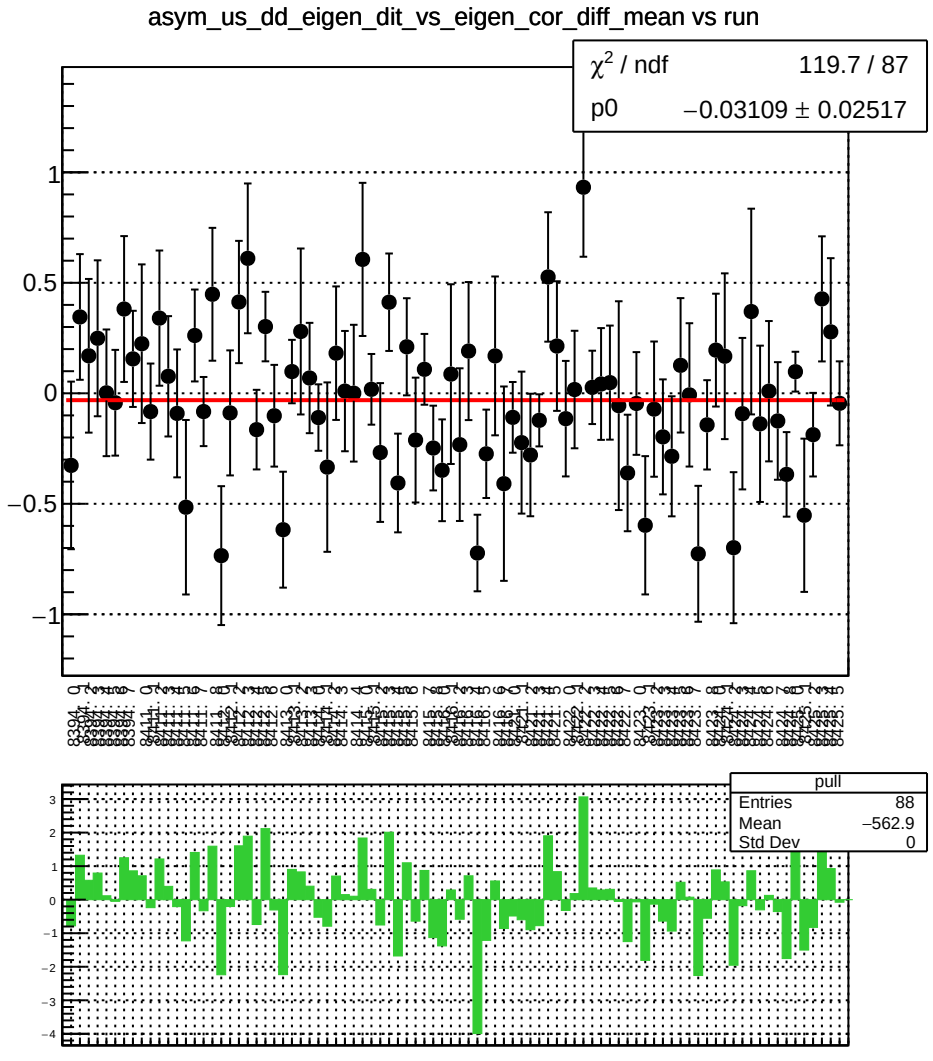

pull1D
Entries 88
Mean 0.2394
Std Dev 1.043

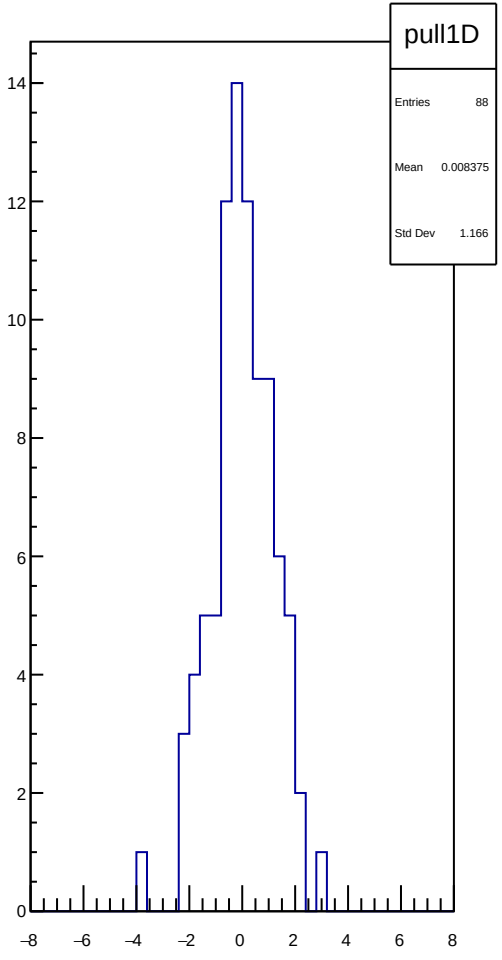

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.137e+05 / 87
p0 0.001362 ± 1.254e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

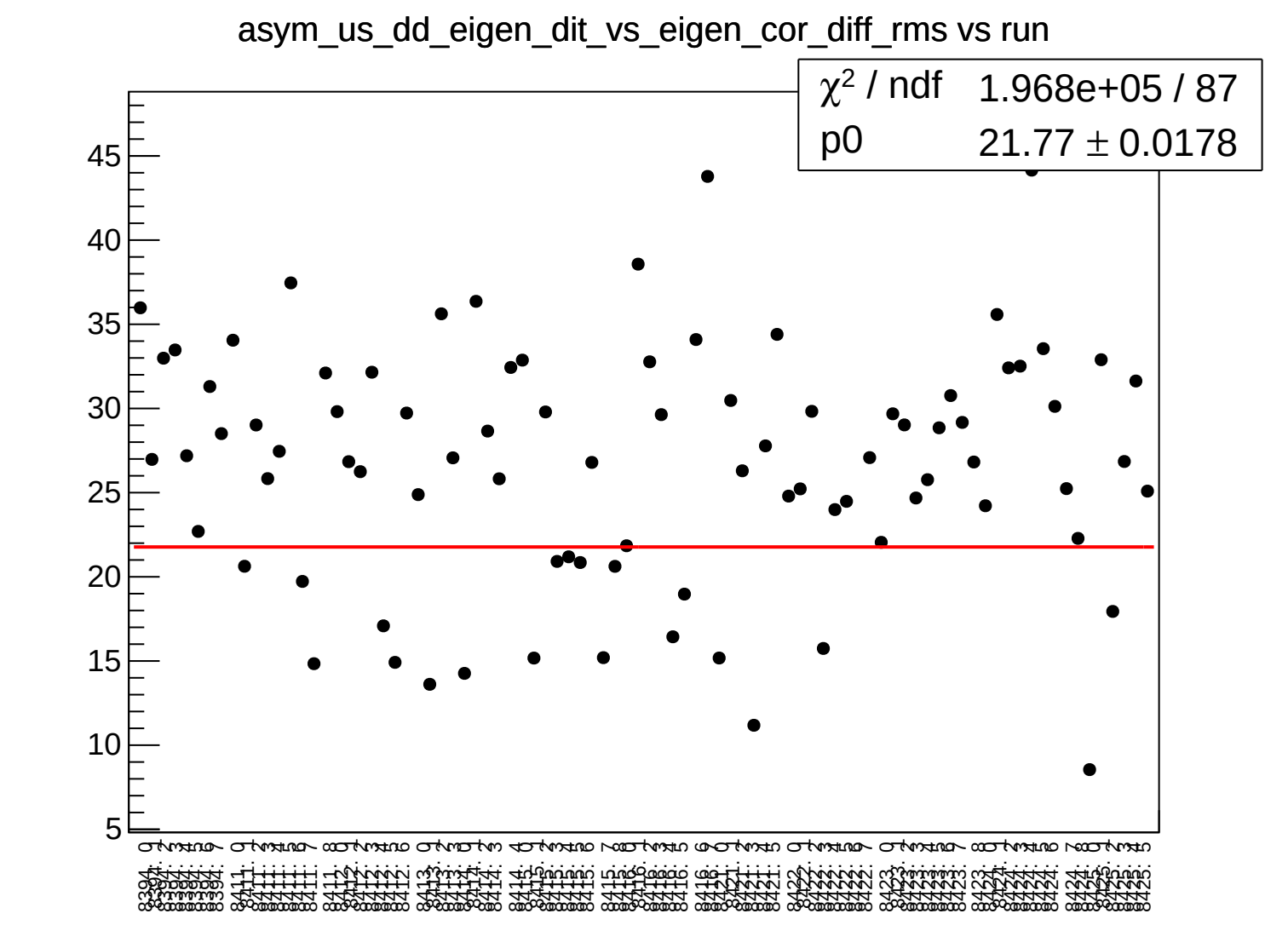

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 119.7 / 87
p0 −0.03109 ± 0.02517
pull
Entries 88
Mean −562.9
Std Dev 0

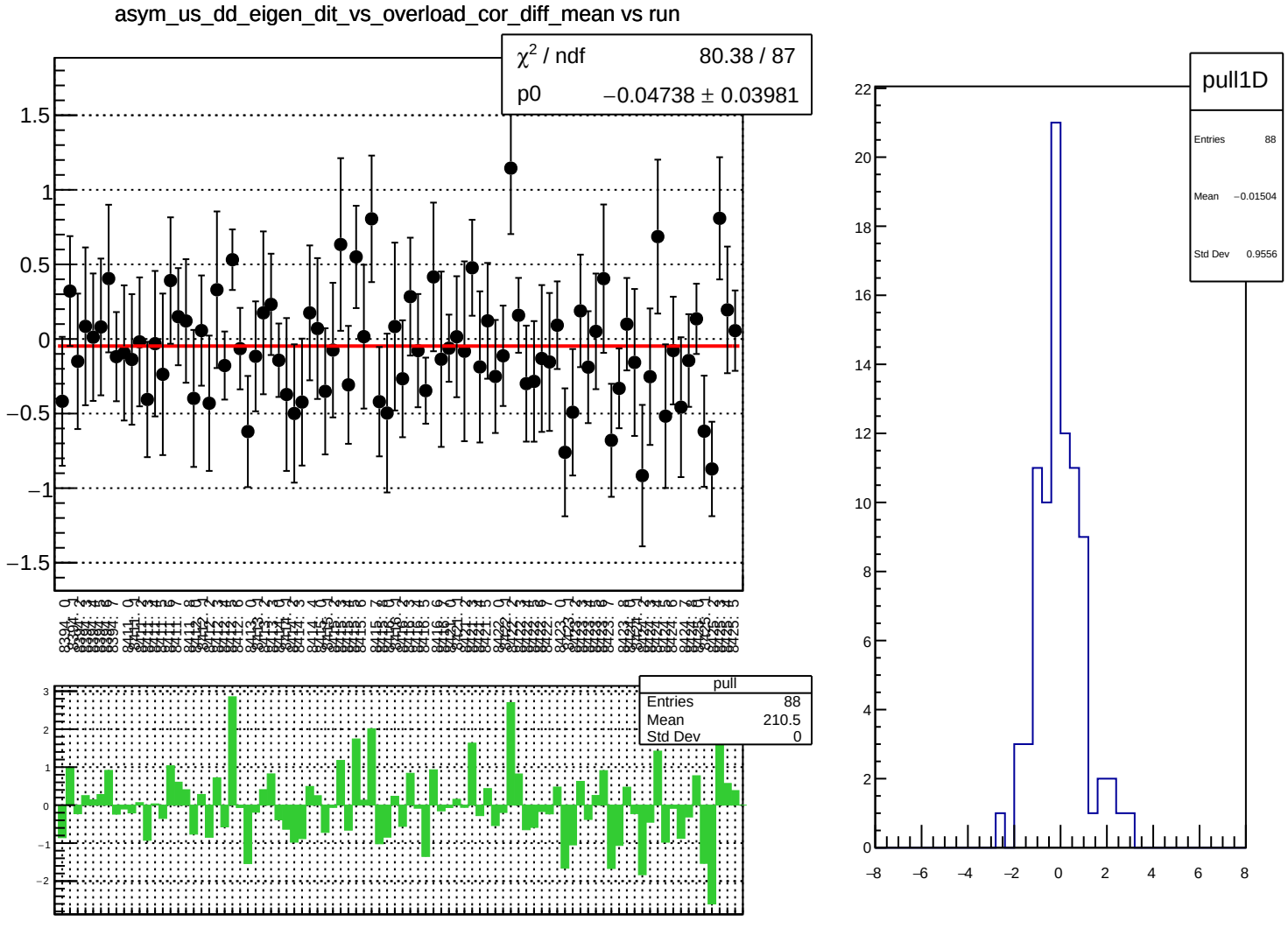

pull1D
Entries 88
Mean 0.008375
Std Dev 1.166

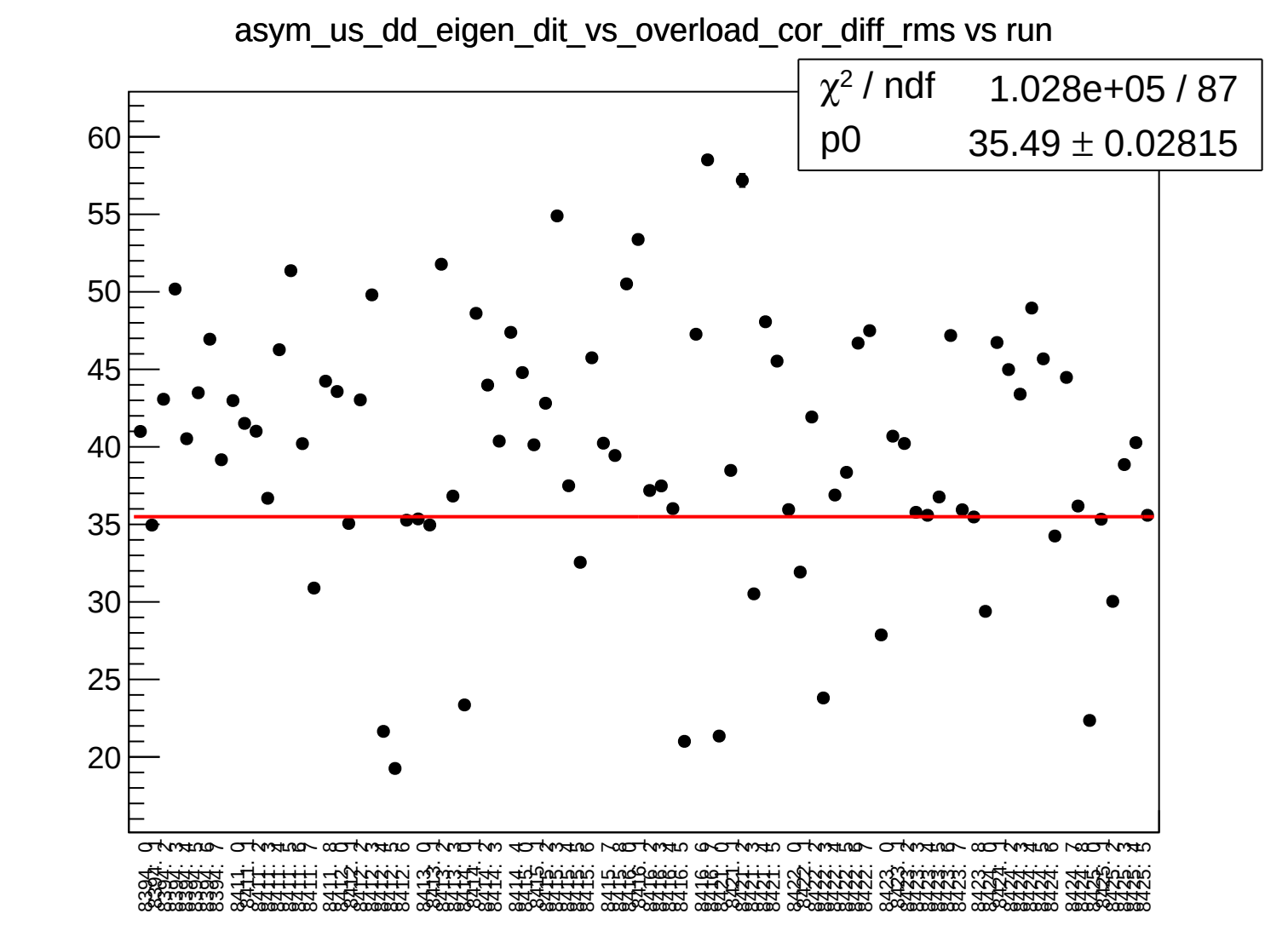

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.968e+05 / 87
p0 21.77 ± 0.0178
45
40
35
30
25
20
15
10
5

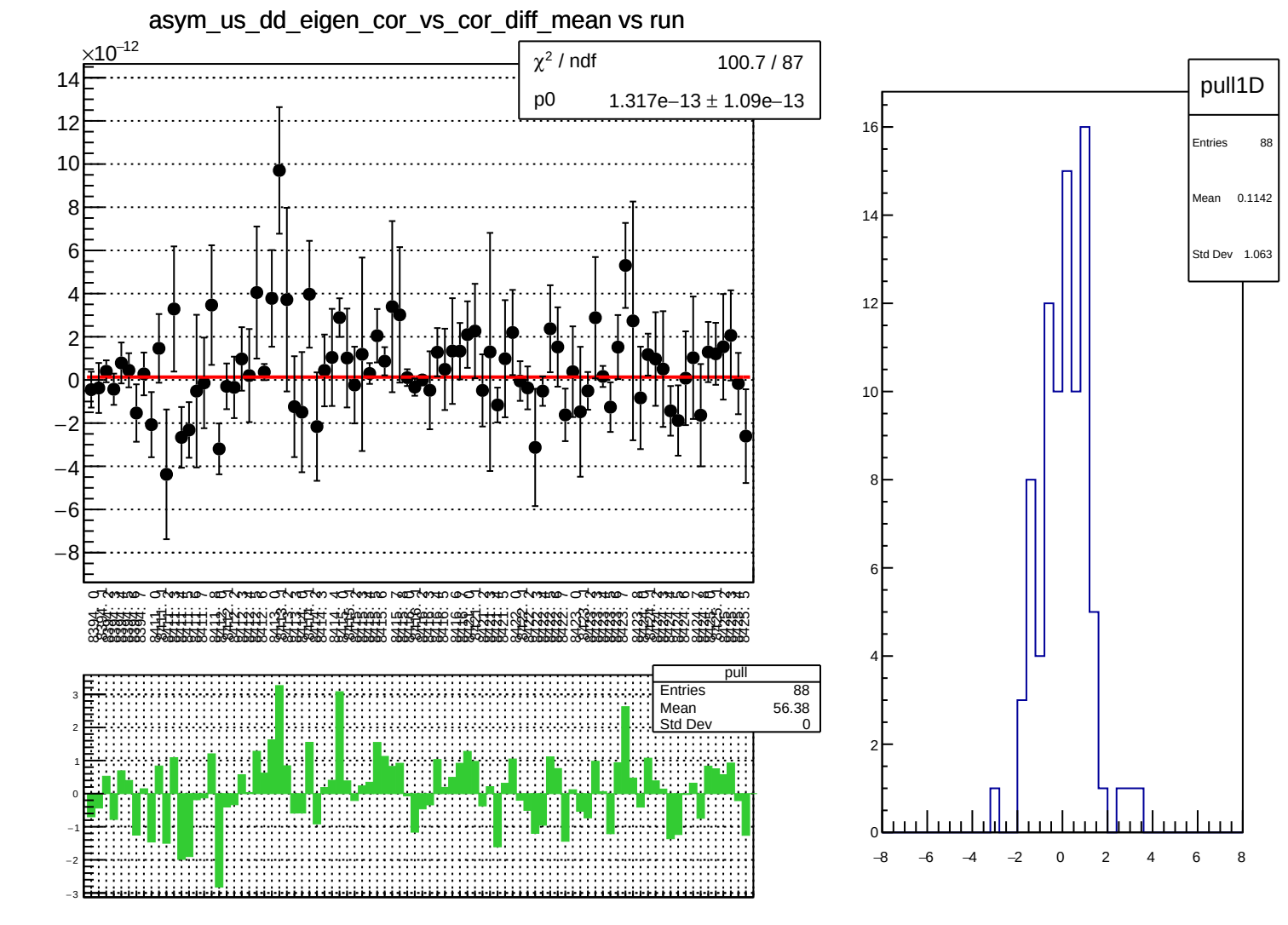

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119.7 / 87
p0 −0.03109 ± 0.02517
pull
Entries 88
Mean −562.9
Std Dev 0

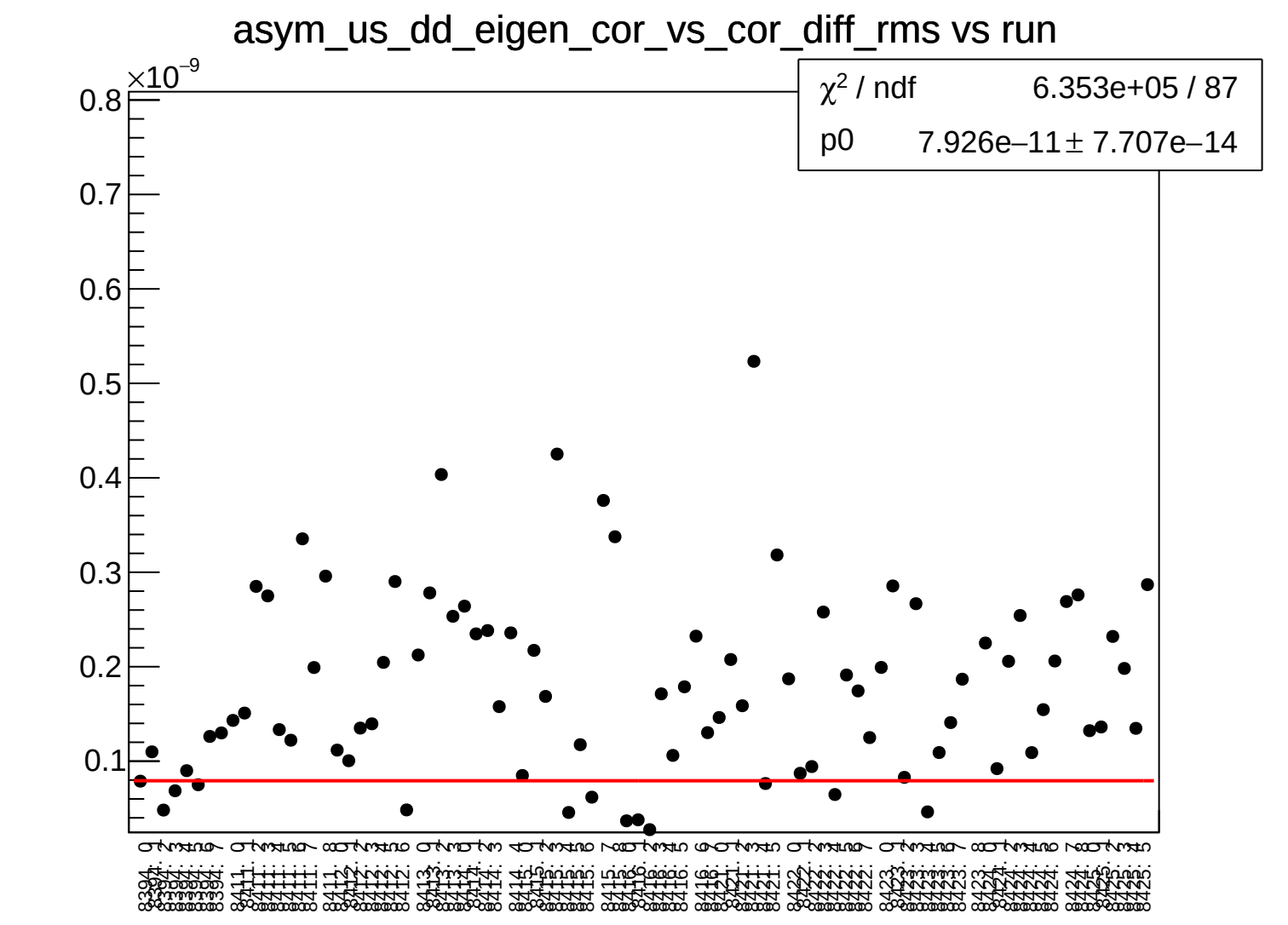

pull1D
Entries 88
Mean 0.008375
Std Dev 1.166

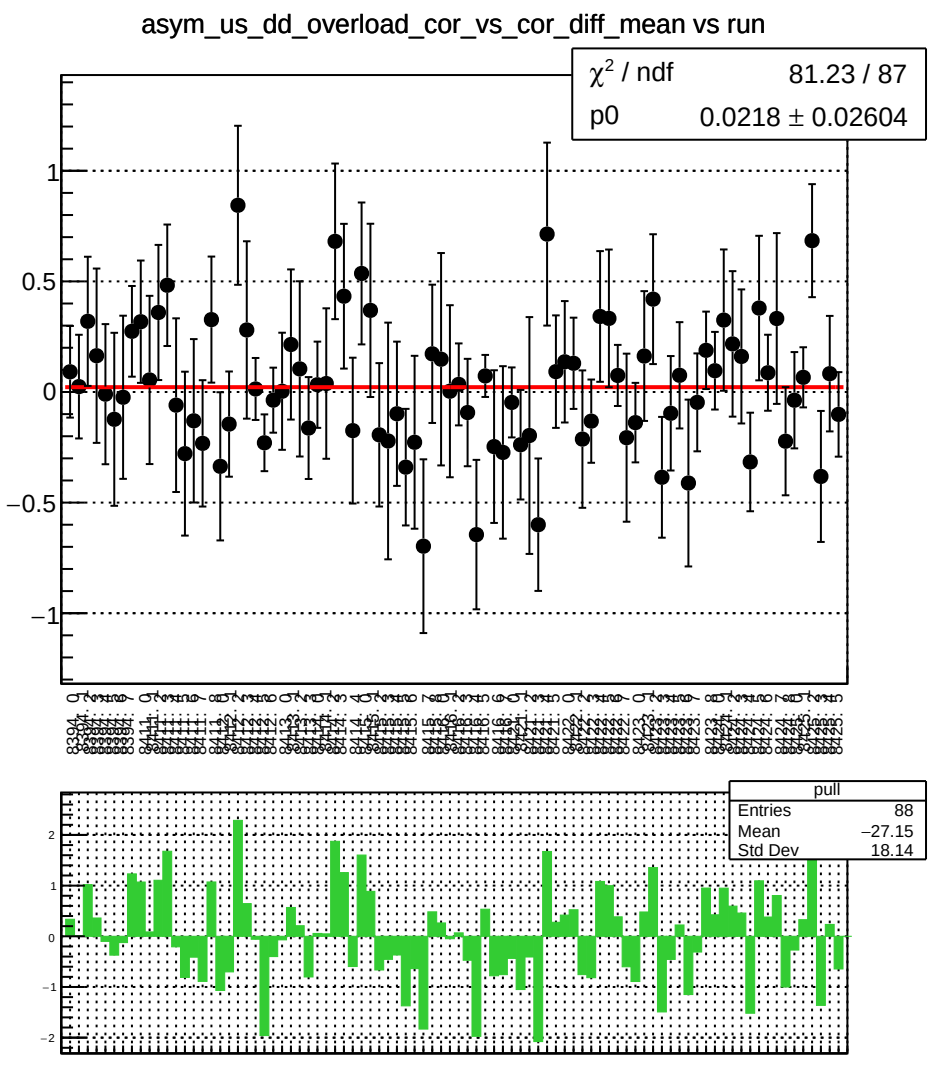

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.968e+05 / 87
p0 21.77 ± 0.0178
45
40
35
30
25
20
15
10
5

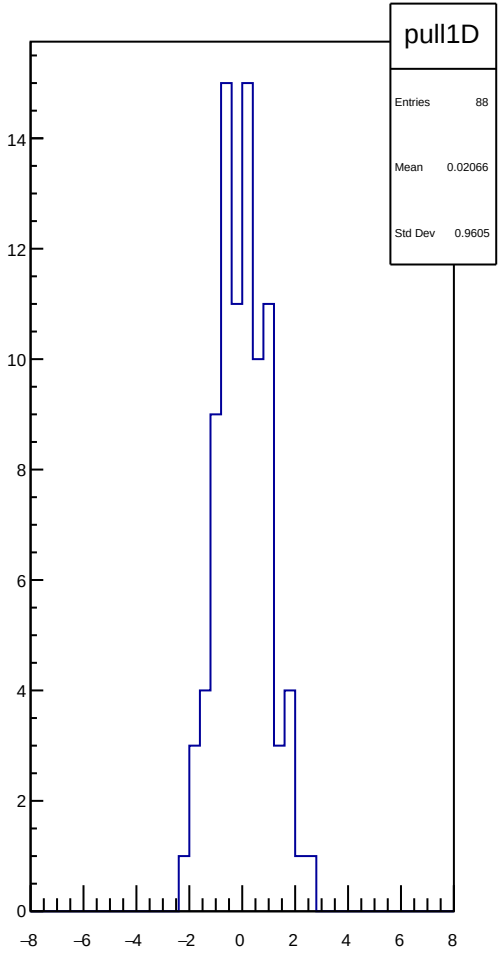

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 80.38 / 87
p0 −0.04738 ± 0.03981
pull
Entries 88
Mean 210.5
Std Dev 0
pull1D
Entries 88
Mean −0.01504
Std Dev 0.9556

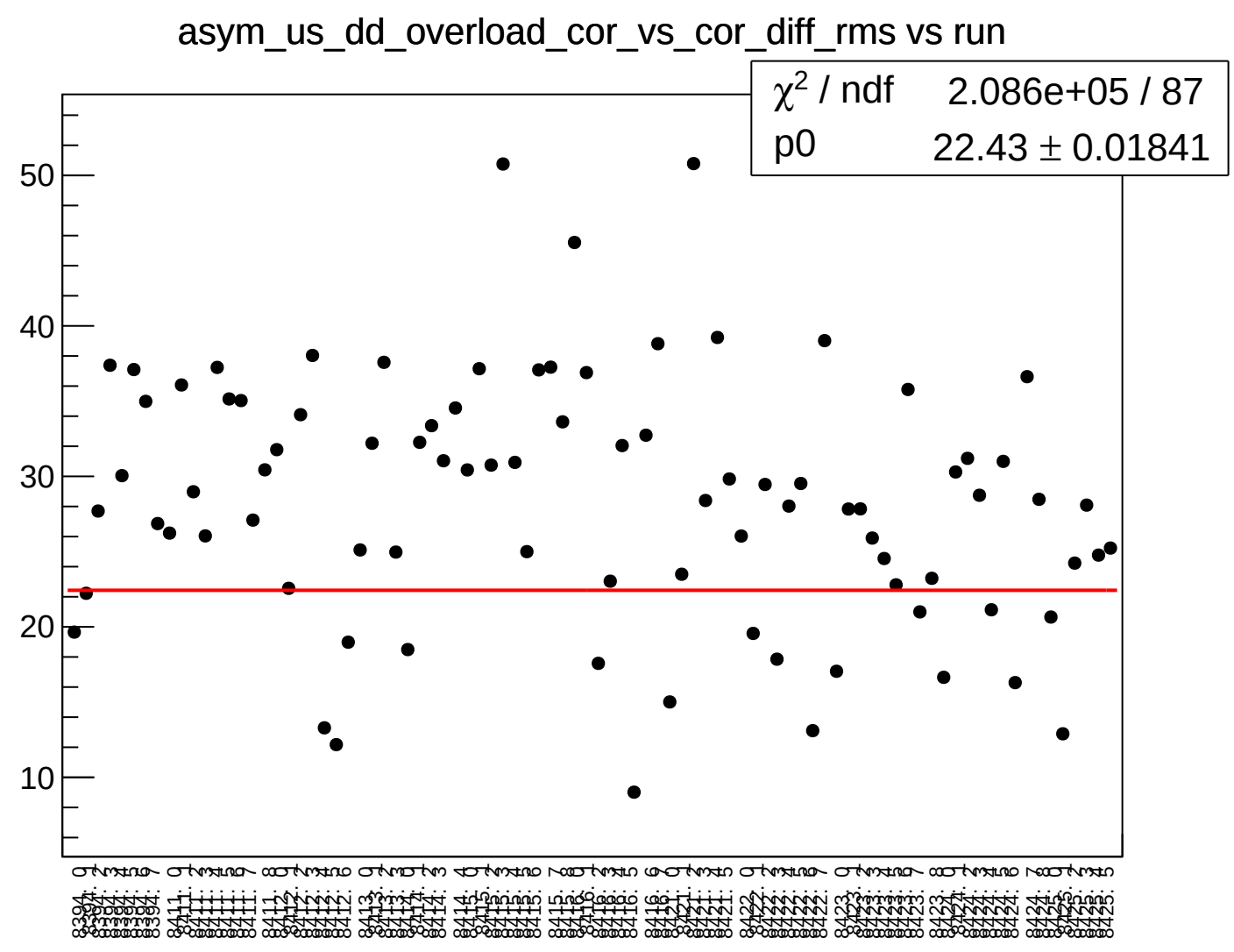

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.028e+05 / 87
p0 35.49 ± 0.02815
60
55
50
45
40
35
30
25
20

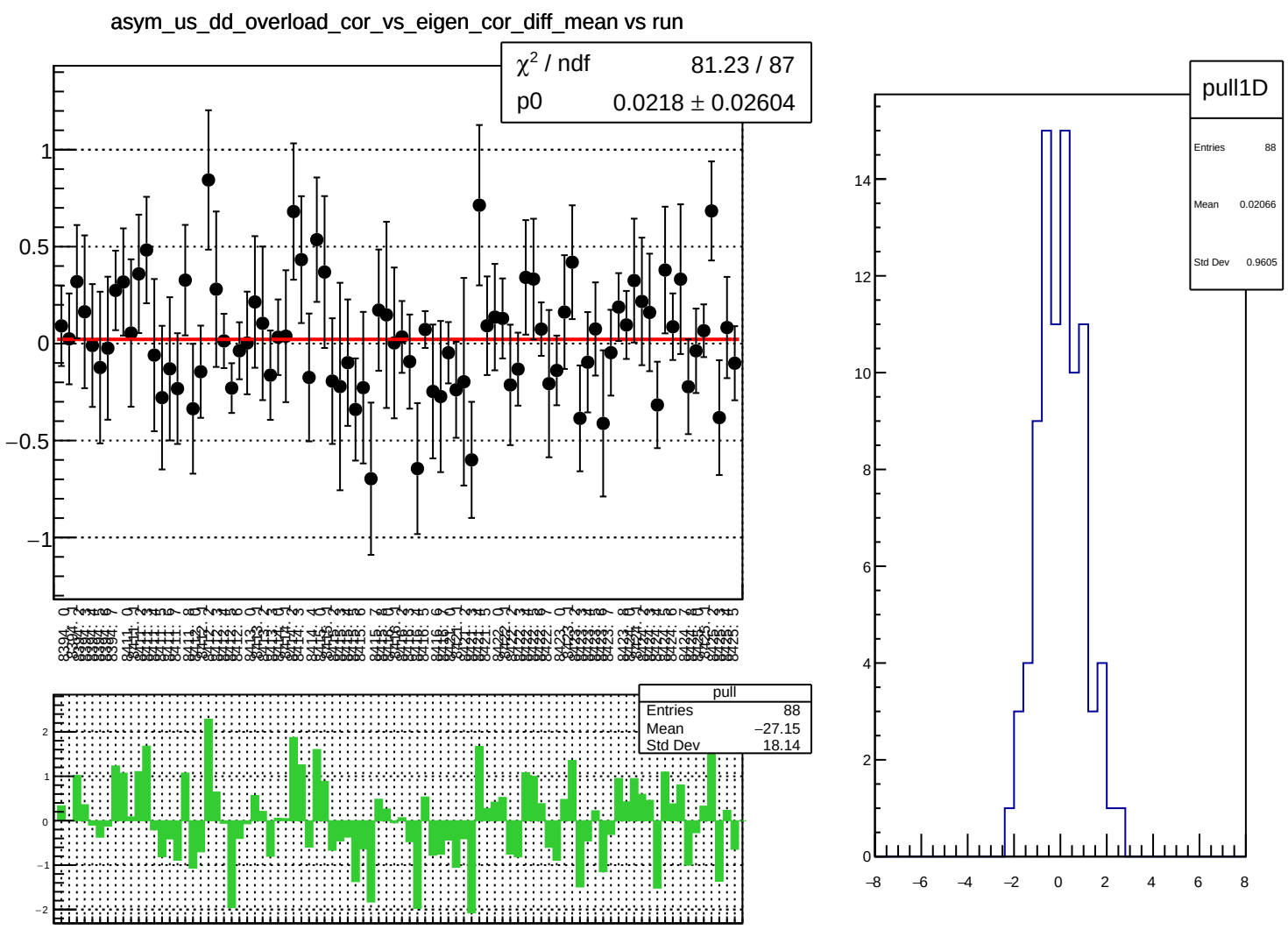

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 100.7 / 87
p0 1.317e−13 ± 1.09e−13
pull
Entries 88
Mean 56.38
Std Dev 0
pull1D
Entries 88
Mean 0.1142
Std Dev 1.063

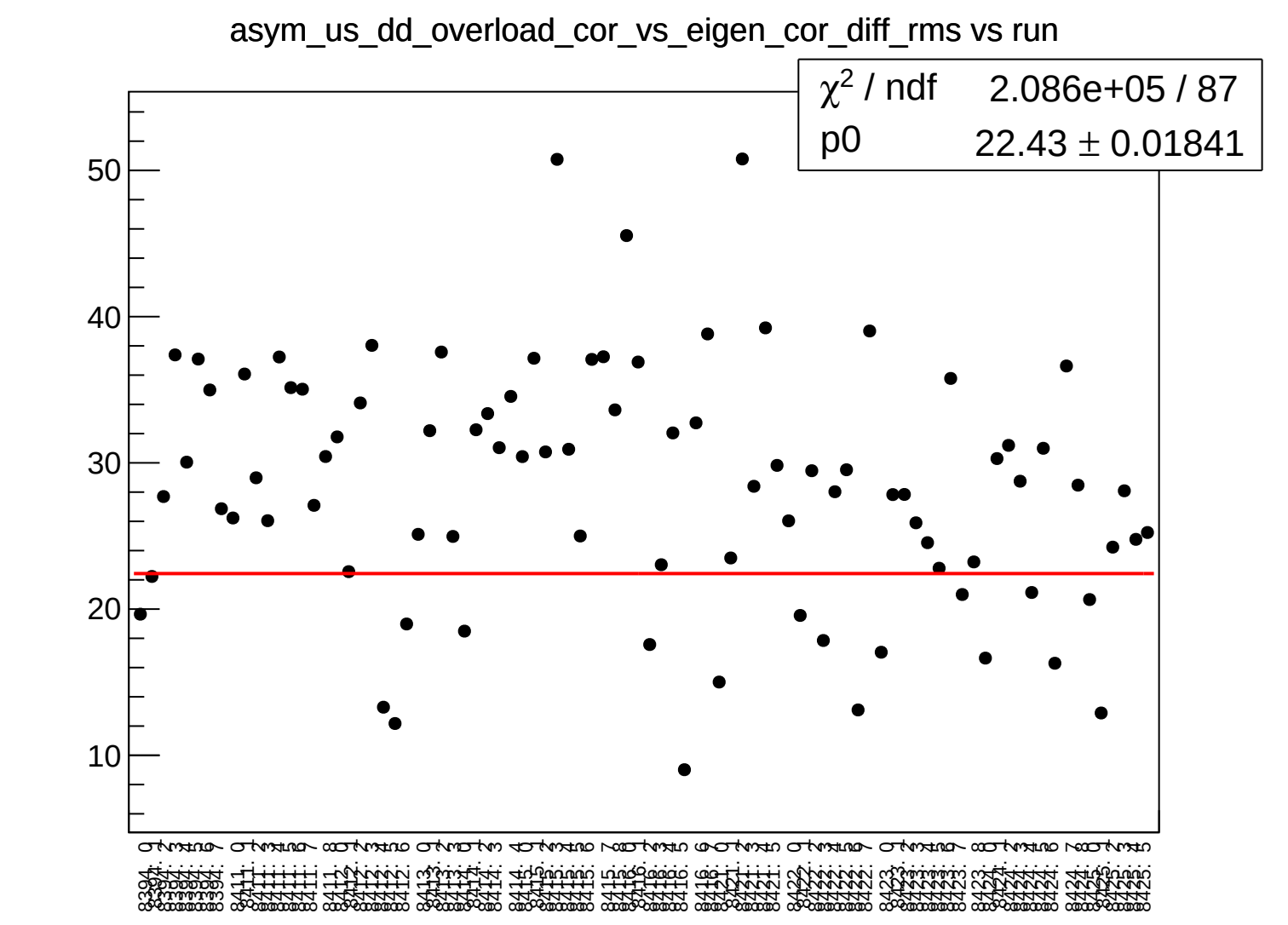

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.353e+05 / 87
p0 7.926e−11 ± 7.707e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

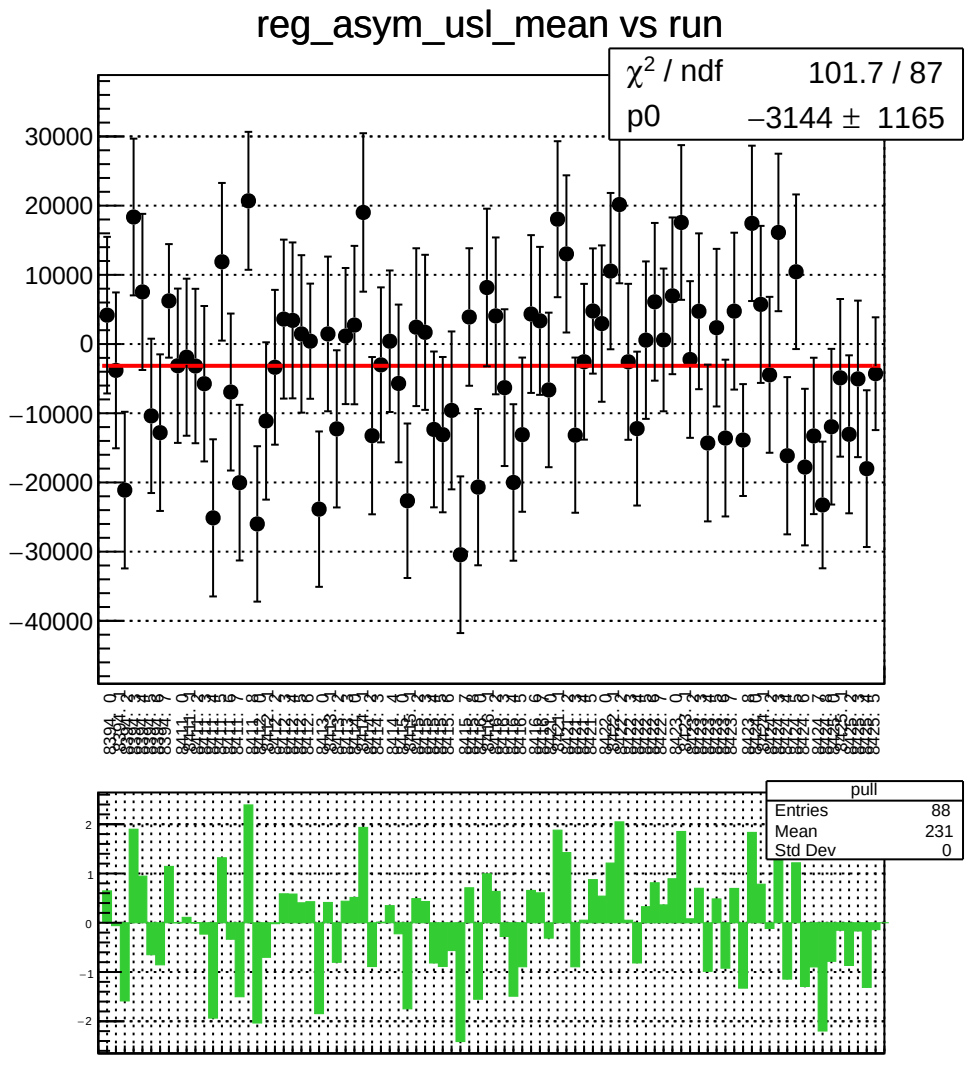

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 81.23 / 87
p0 0.0218 ± 0.02604
pull
Entries 88
Mean −27.15
Std Dev 18.14

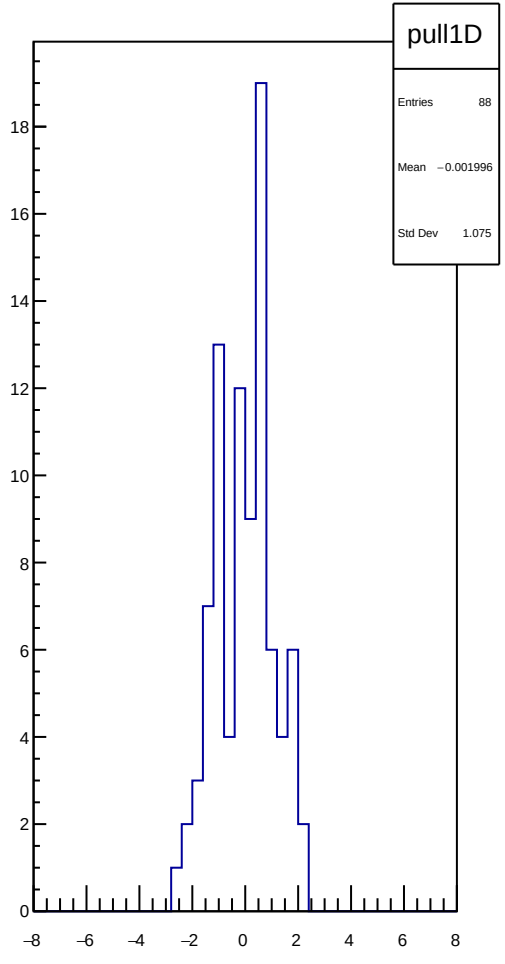

pull1D
Entries 88
Mean 0.02066
Std Dev 0.9605

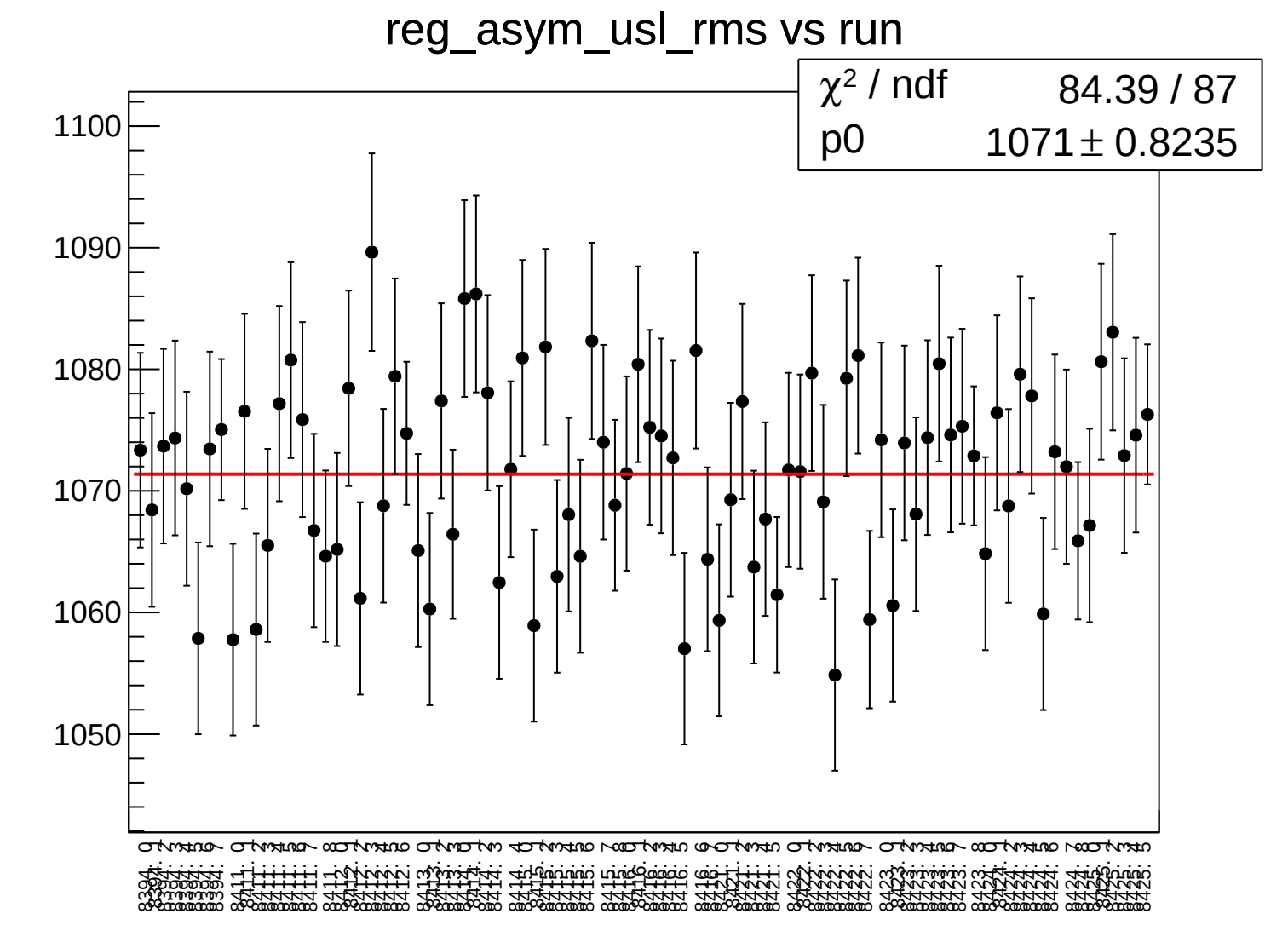

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 2.086e+05 / 87
p0 22.43 ± 0.01841
50
40
30
20
10

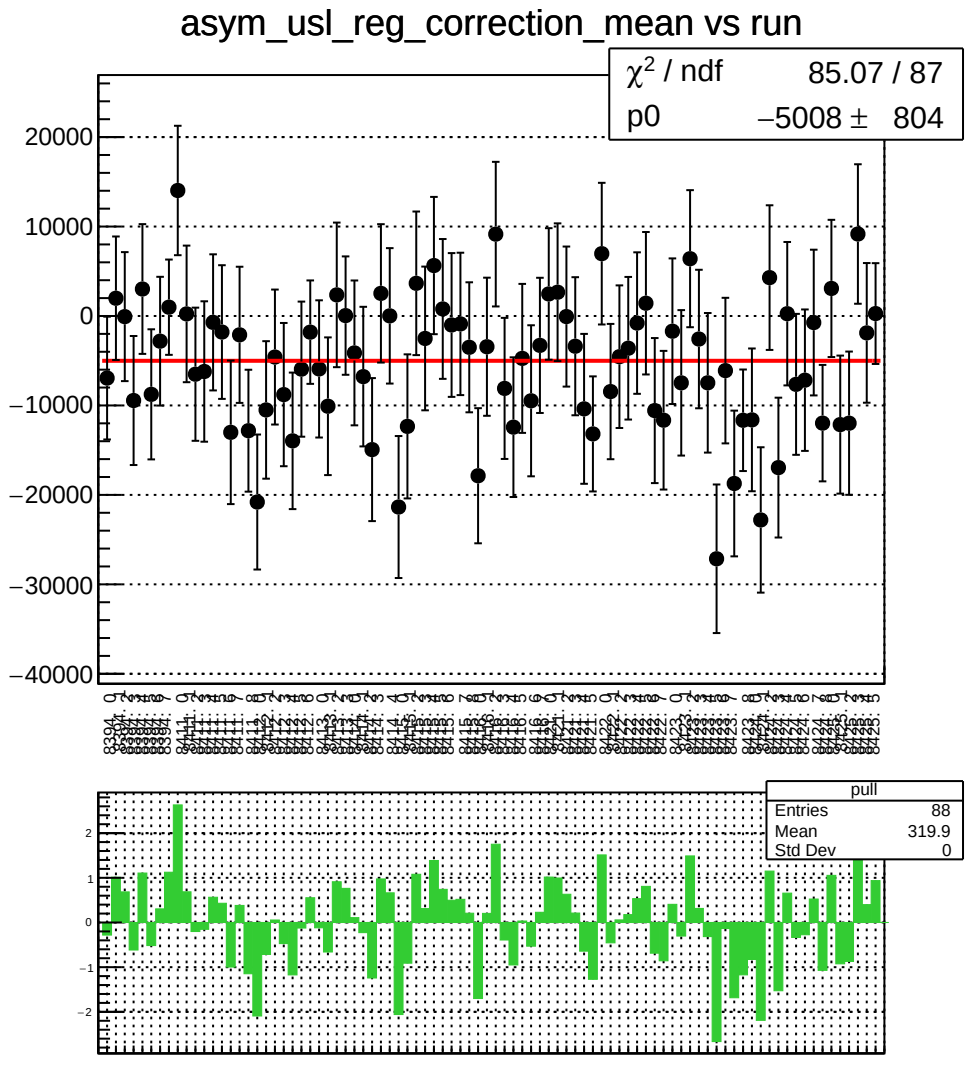

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.23 / 87
p0 0.0218 ± 0.02604
pull
Entries 88
Mean −27.15
Std Dev 18.14
pull1D
Entries 88
Mean 0.02066
Std Dev 0.9605

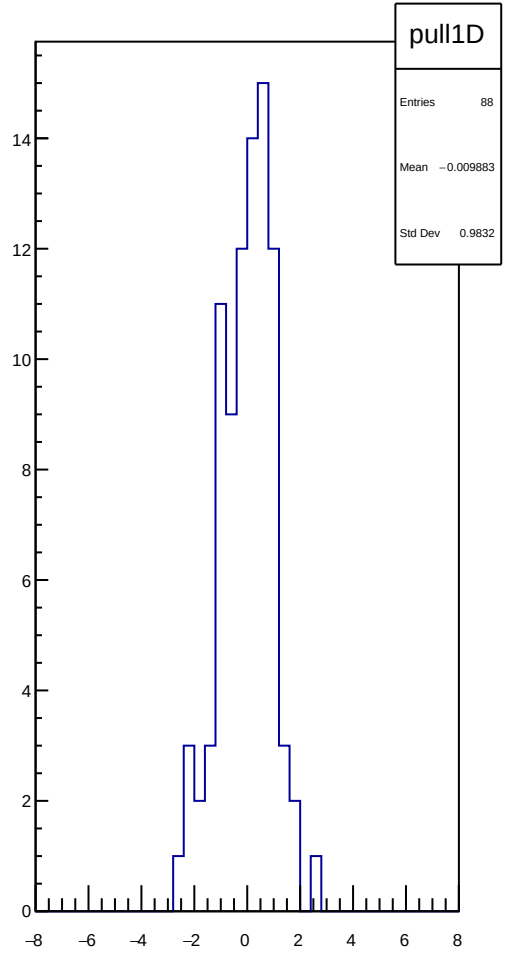

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.086e+05 / 87
p0 22.43 ± 0.01841
50
40
30
20
10

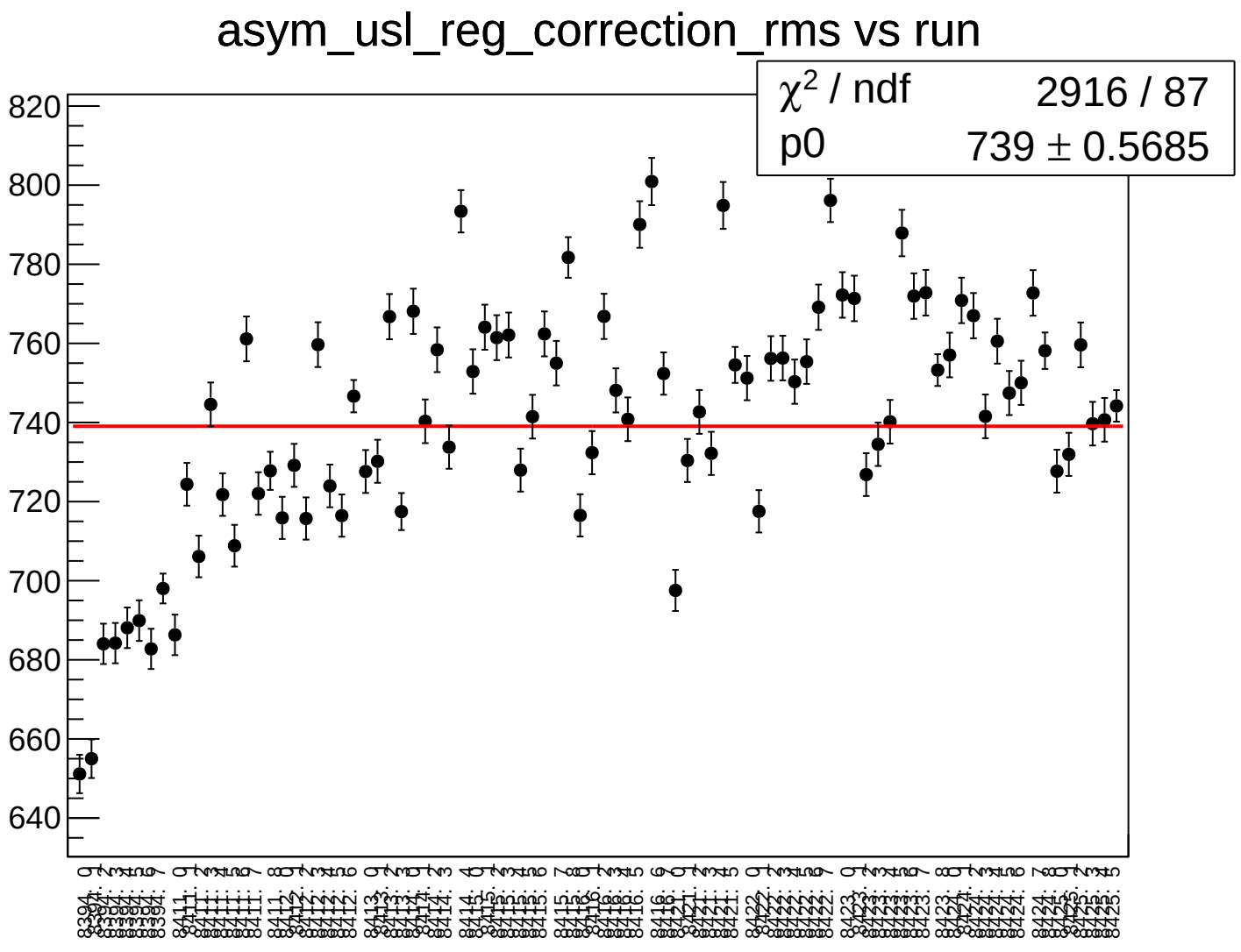

reg_asym_usl_mean vs run
χ^2 / ndf 101.7 / 87
p0 −3144 ± 1165
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 231
Std Dev 0
2
1
0
−1
−2

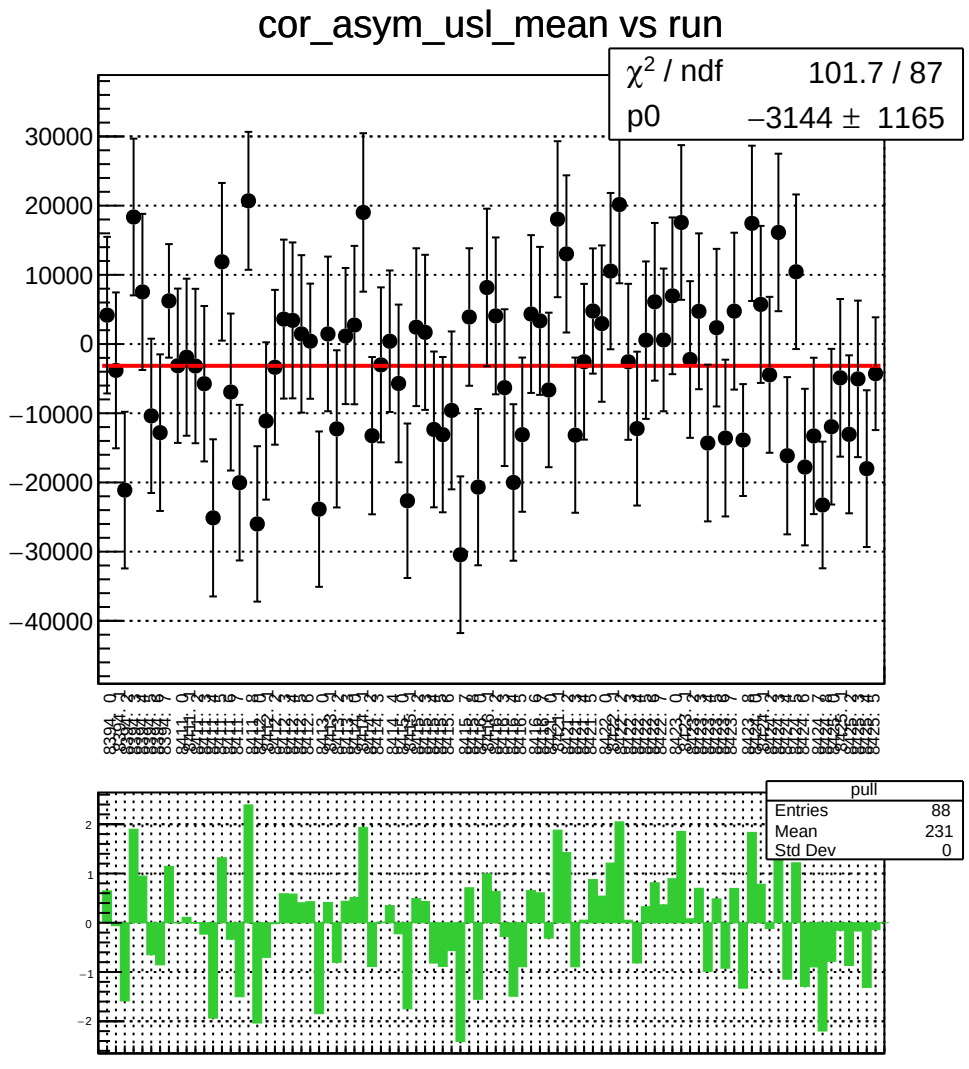

pull1D
Entries 88
Mean −0.001996
Std Dev 1.075
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

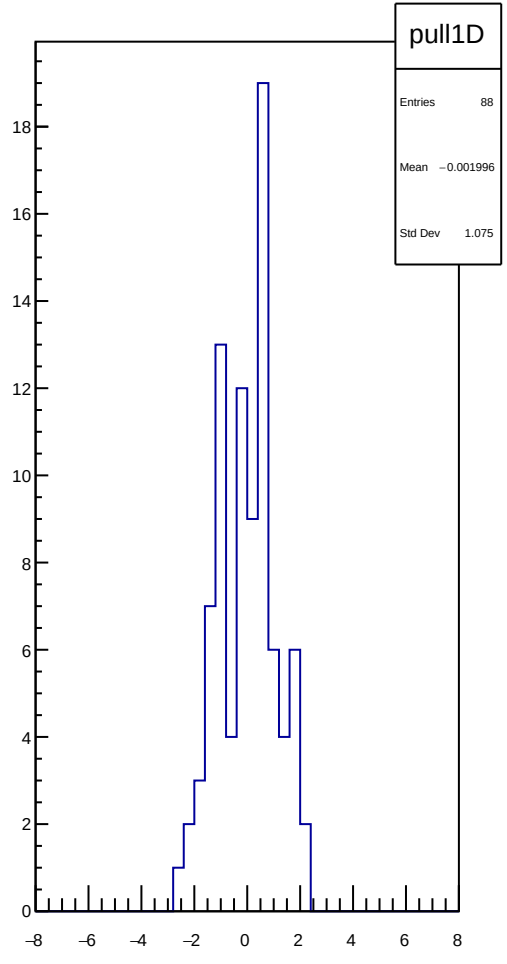

reg_asym_usl_rms vs run
χ² / ndf 84.39 / 87
p0 1071 ± 0.8235
1100
1090
1080
1070
1060
1050

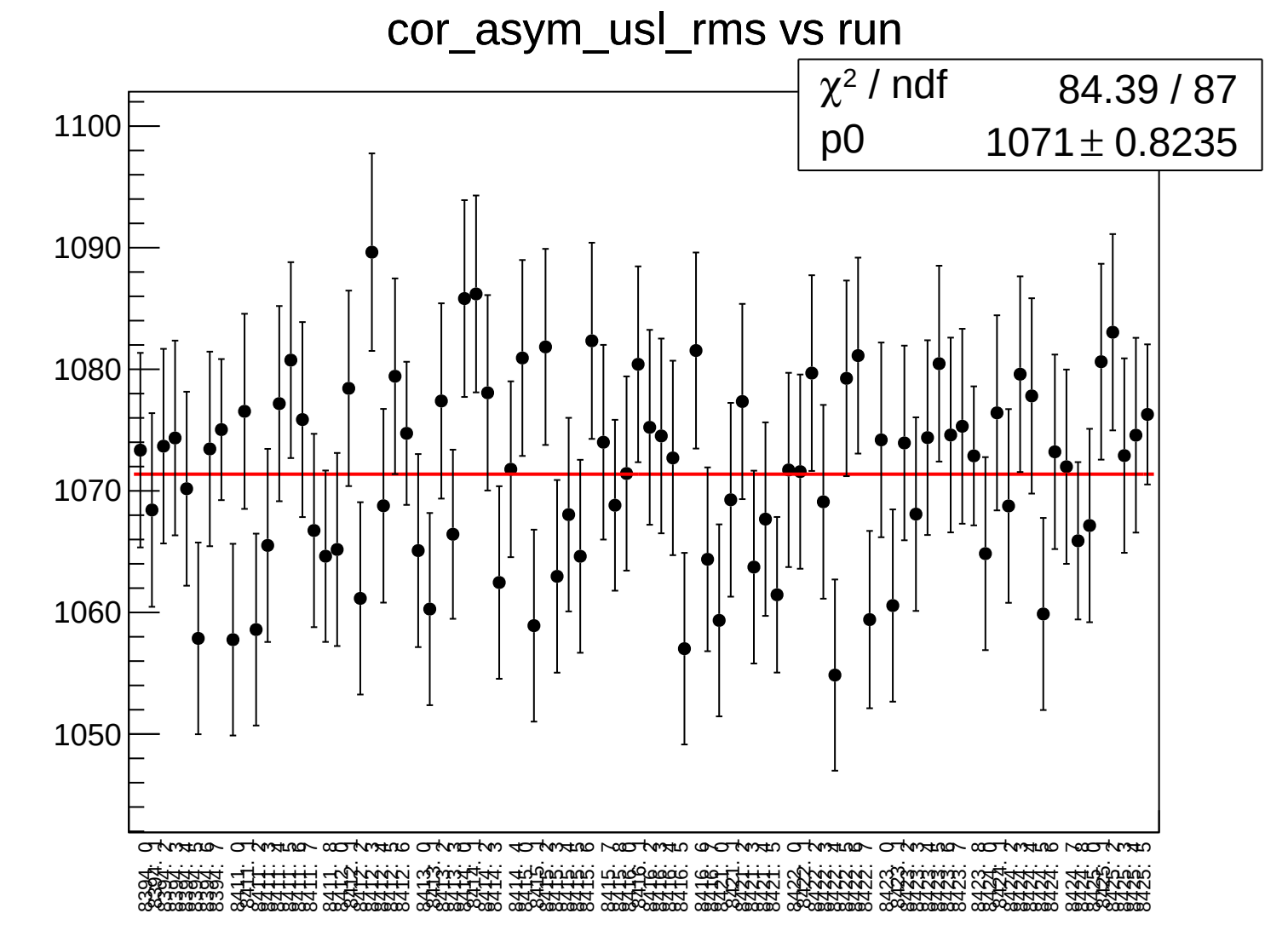

asym_usl_reg_correction_mean vs run
χ² / ndf 85.07 / 87
p0 −5008 ± 804
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 319.9
Std Dev 0
2
1
0
−1
−2

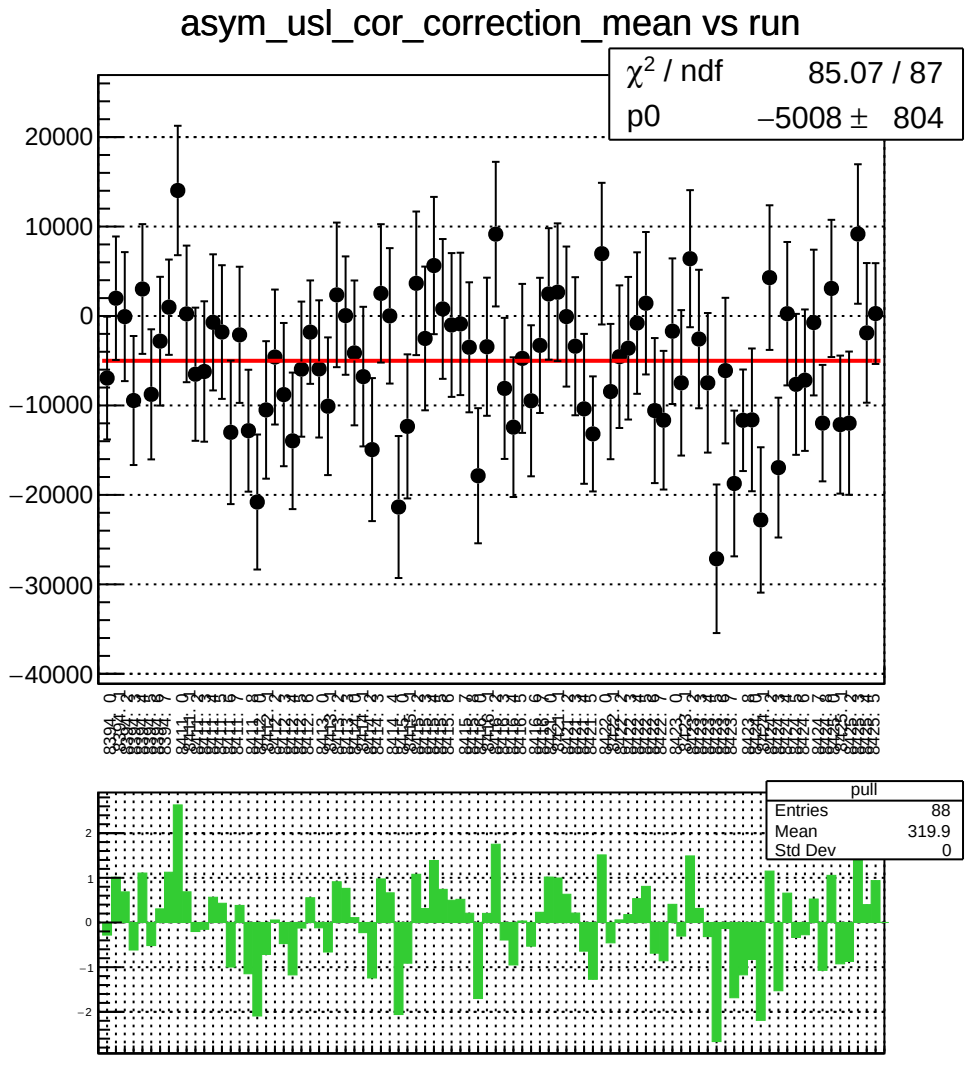

pull1D
Entries 88
Mean −0.009883
Std Dev 0.9832
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

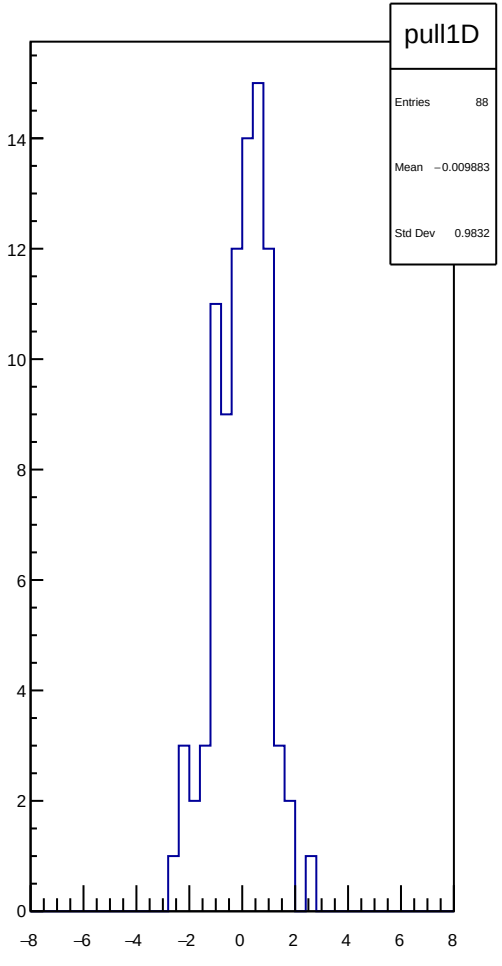

asym_usl_reg_correction_rms vs run
χ² / ndf 2916 / 87
p0 739 ± 0.5685
820
800
780
760
740
720
700
680
660
640

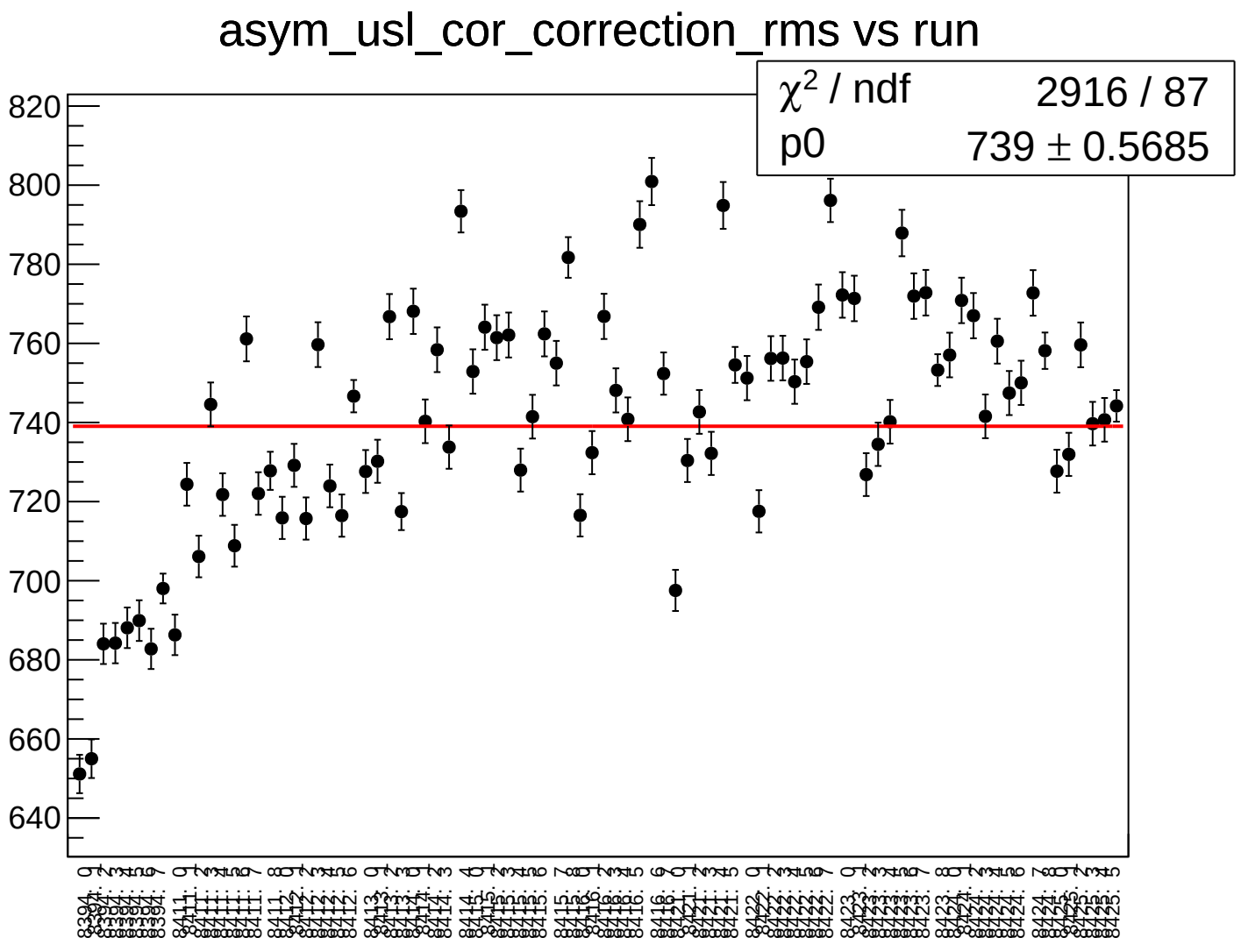

cor_asym_usl_mean vs run
χ² / ndf 101.7 / 87
p0 −3144 ± 1165
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 231
Std Dev 0
2
1
0
−1
−2

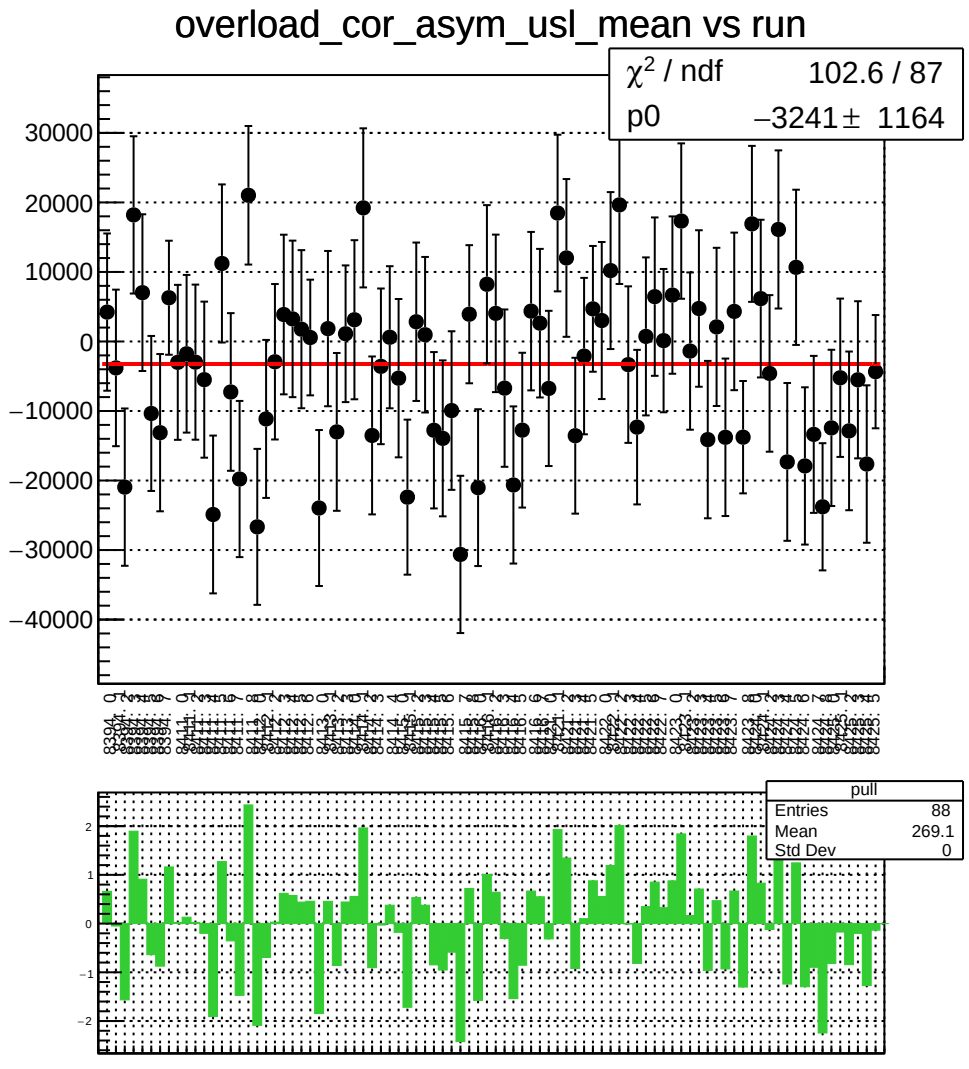

pull1D
Entries 88
Mean −0.001996
Std Dev 1.075
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

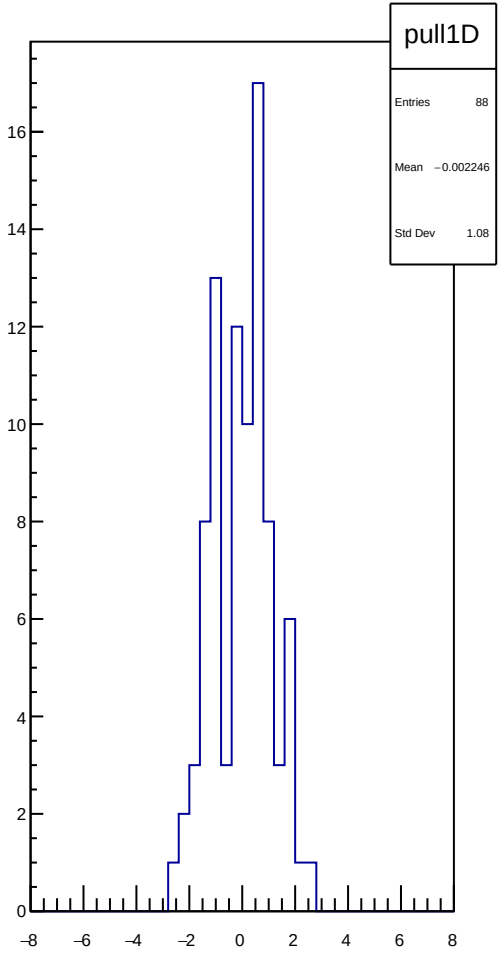

cor_asym_usl_rms vs run
χ² / ndf 84.39 / 87
p0 1071 ± 0.8235
1100
1090
1080
1070
1060
1050

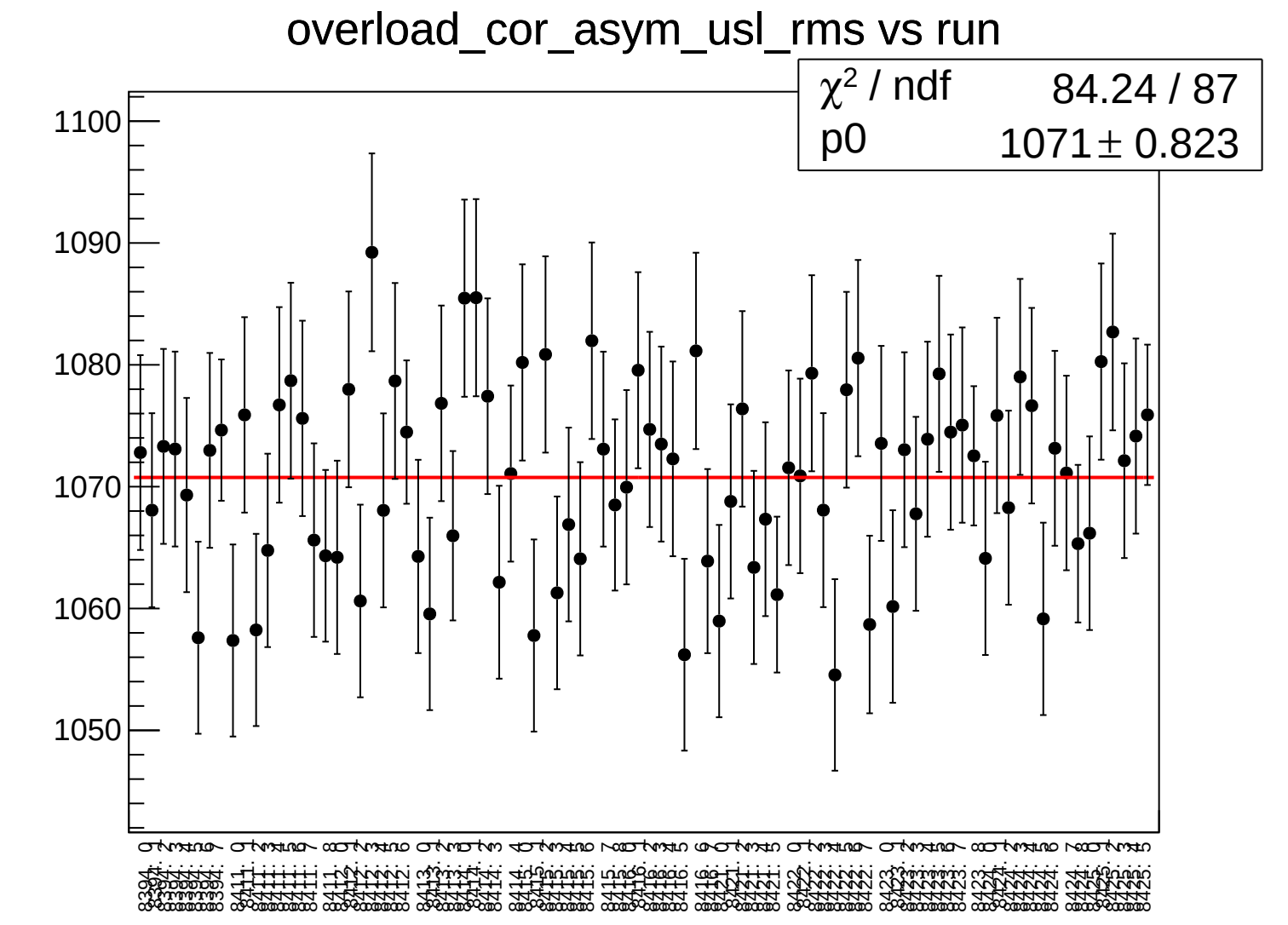

asym_usl_cor_correction_mean vs run
χ² / ndf 85.07 / 87
p0 −5008 ± 804
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 319.9
Std Dev 0
2
1
0
−1
−2

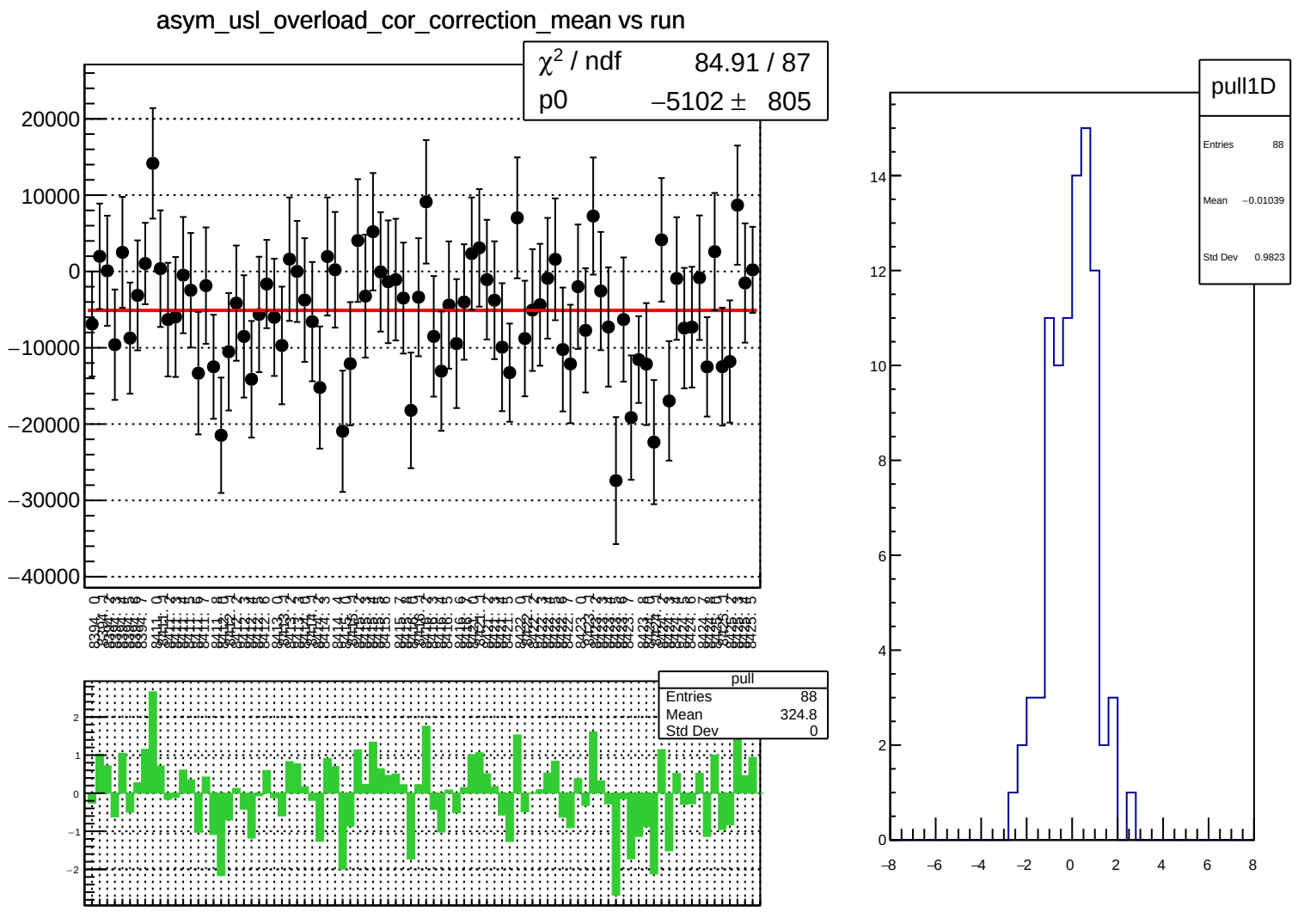

pull1D
Entries 88
Mean −0.009883
Std Dev 0.9832
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

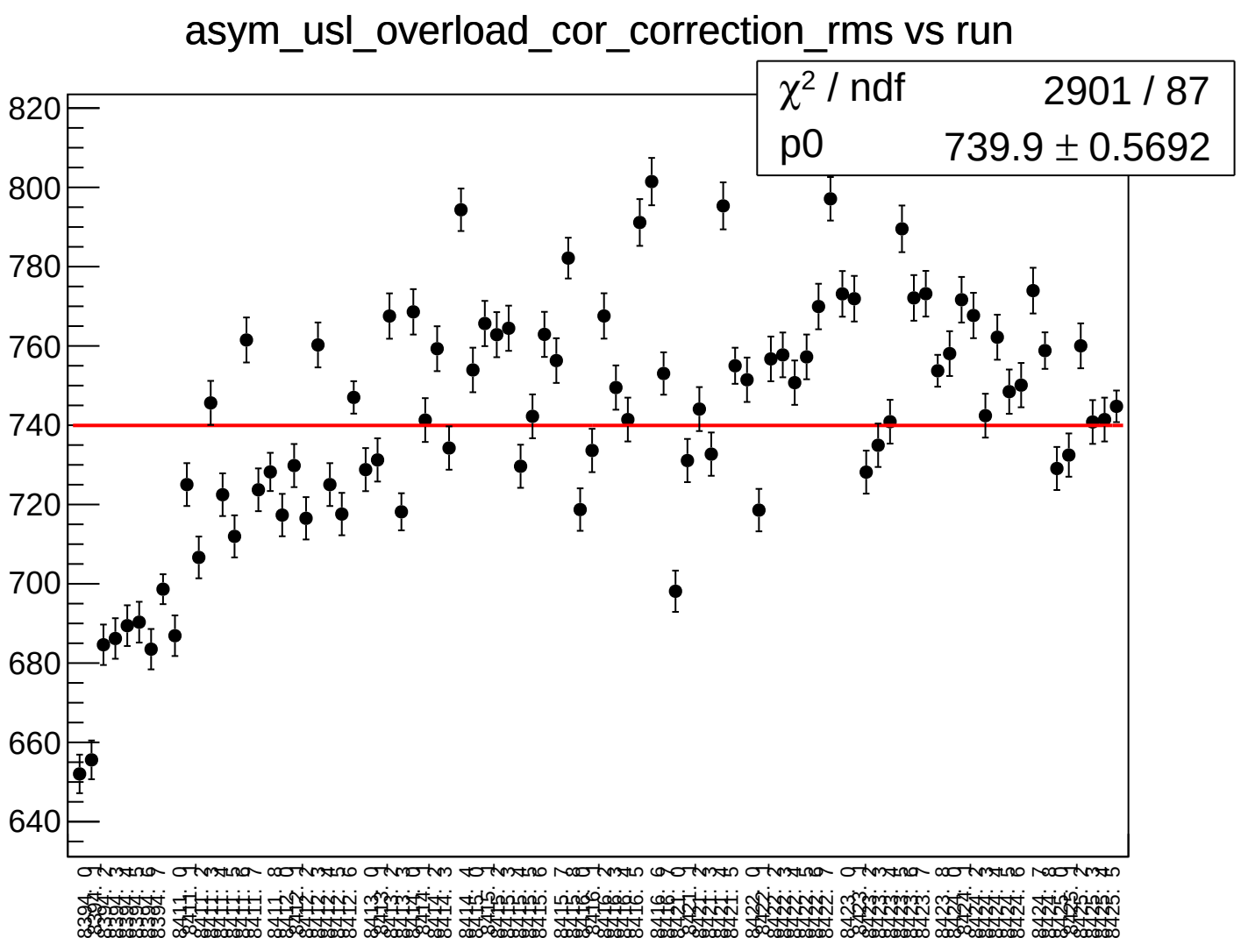

asym_usl_cor_correction_rms vs run
χ² / ndf 2916 / 87
p0 739 ± 0.5685
820
800
780
760
740
720
700
680
660
640

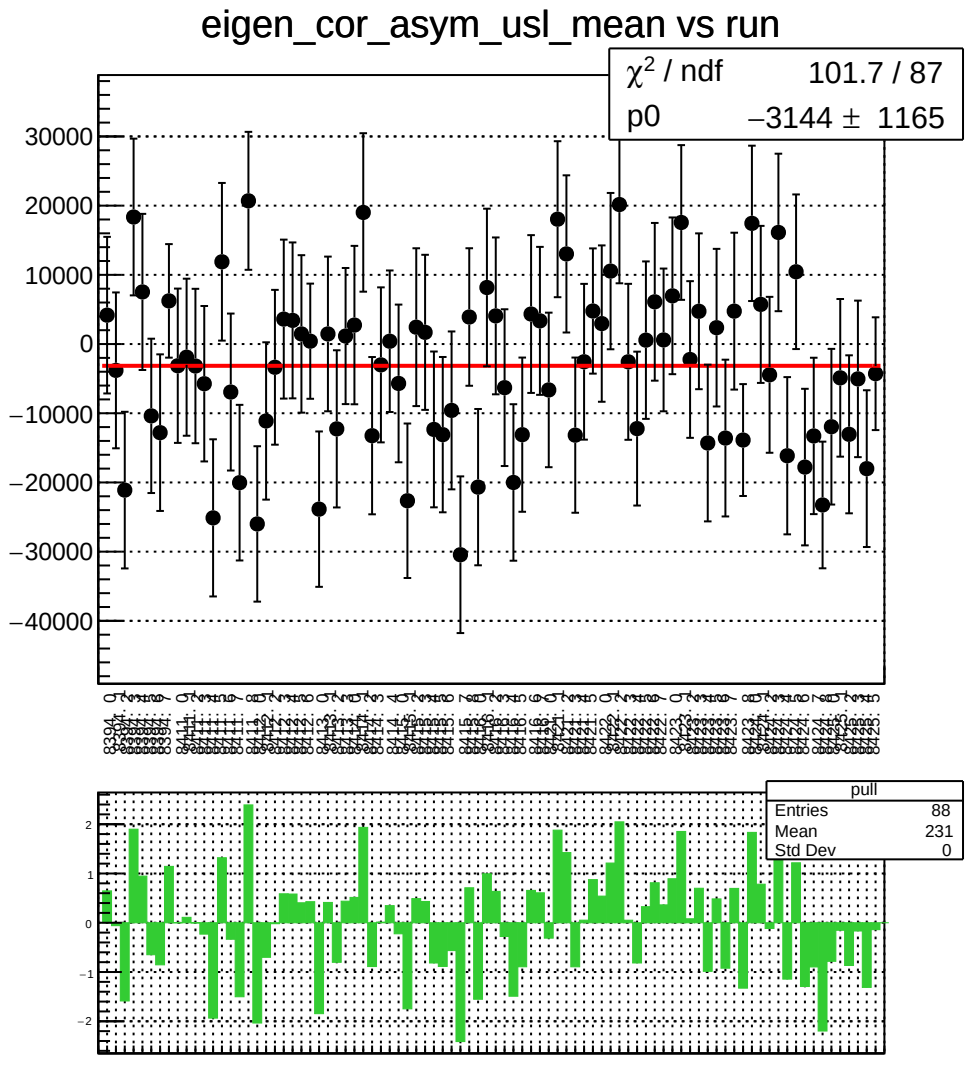

overload_cor_asym_usl_mean vs run
χ² / ndf 102.6 / 87
p0 −3241 ± 1164
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 269.1
Std Dev 0
2
1
0
−1
−2

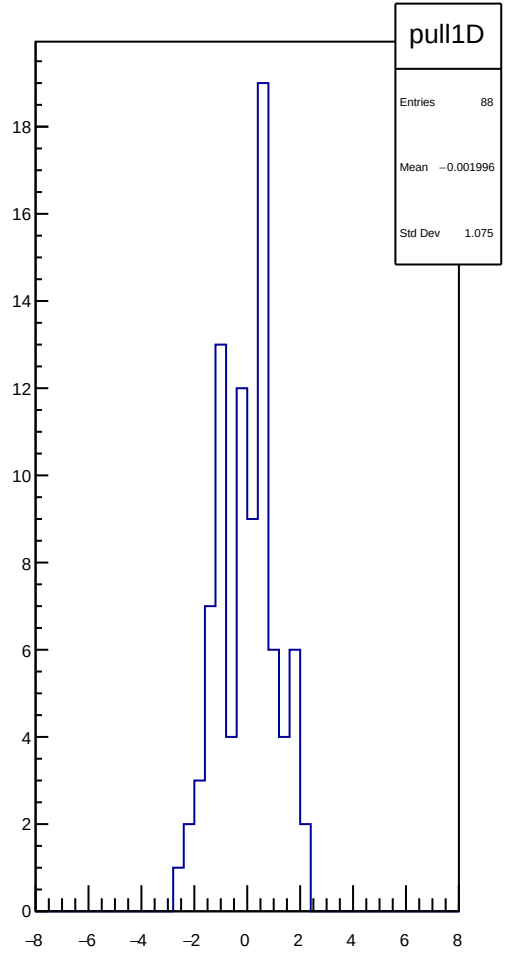

pull1D
Entries 88
Mean −0.002246
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


overload_cor_asym_usl_rms vs run
χ² / ndf 84.24 / 87
p0 1071 ± 0.823
1100
1090
1080
1070
1060
1050

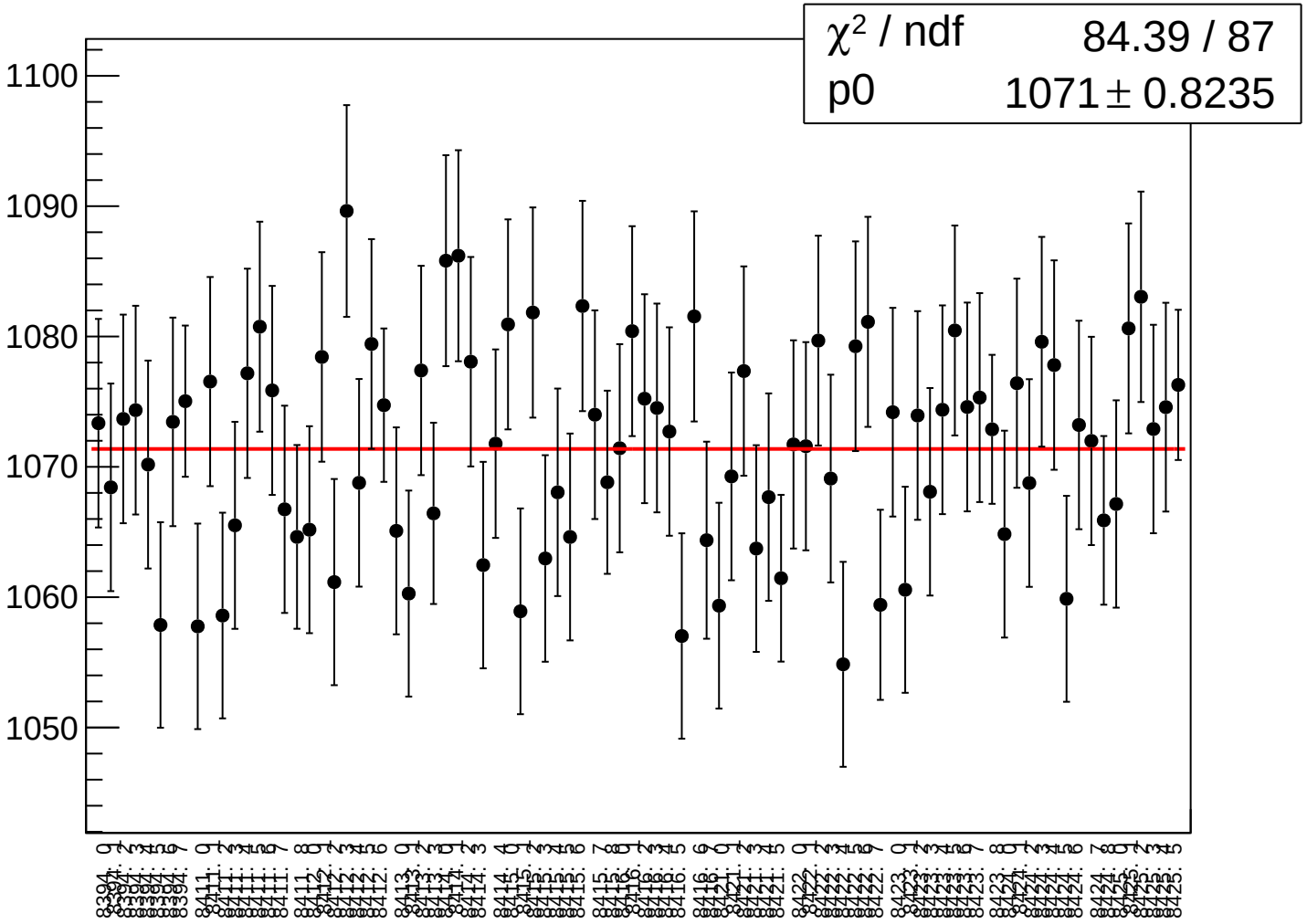

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 84.91 / 87
p0 −5102 ± 805
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 324.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01039
Std Dev 0.9823
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

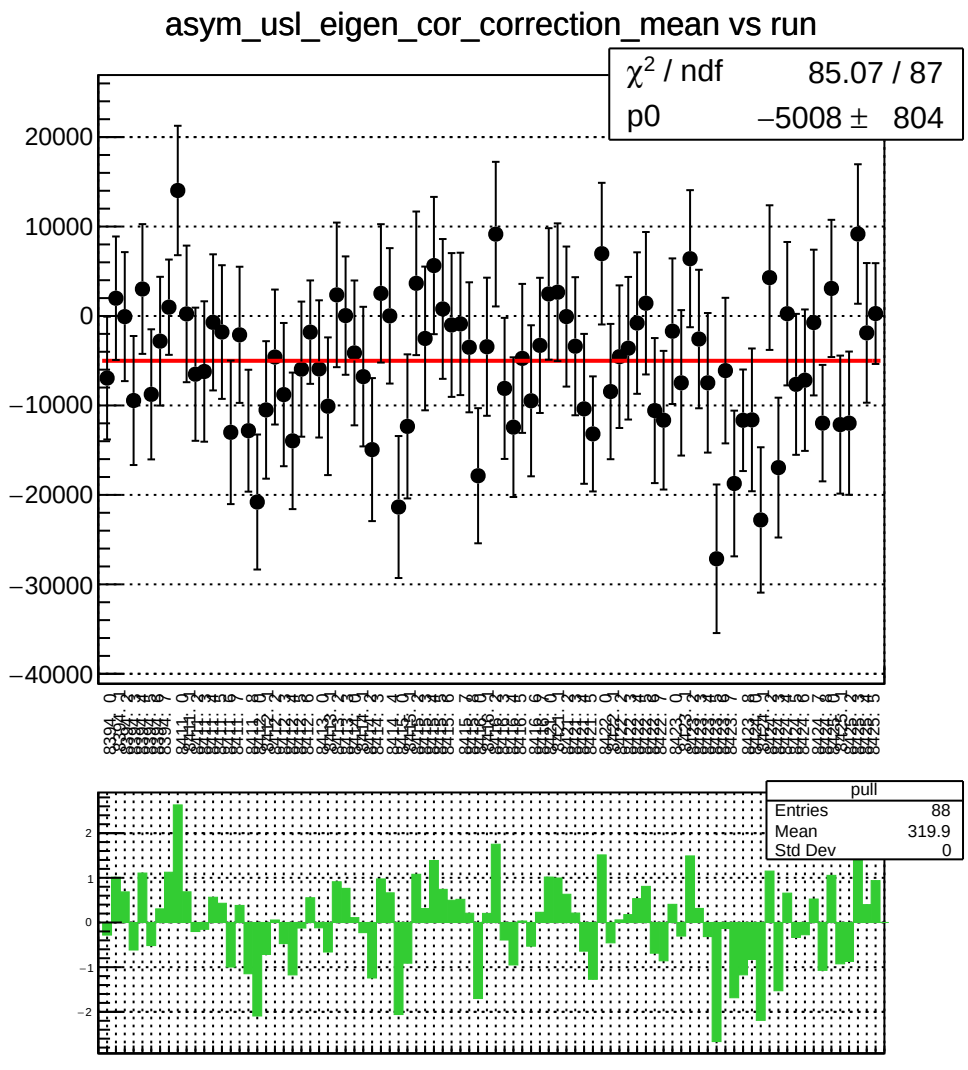

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 2901 / 87
p0 739.9 ± 0.5692
820
800
780
760
740
720
700
680
660
640

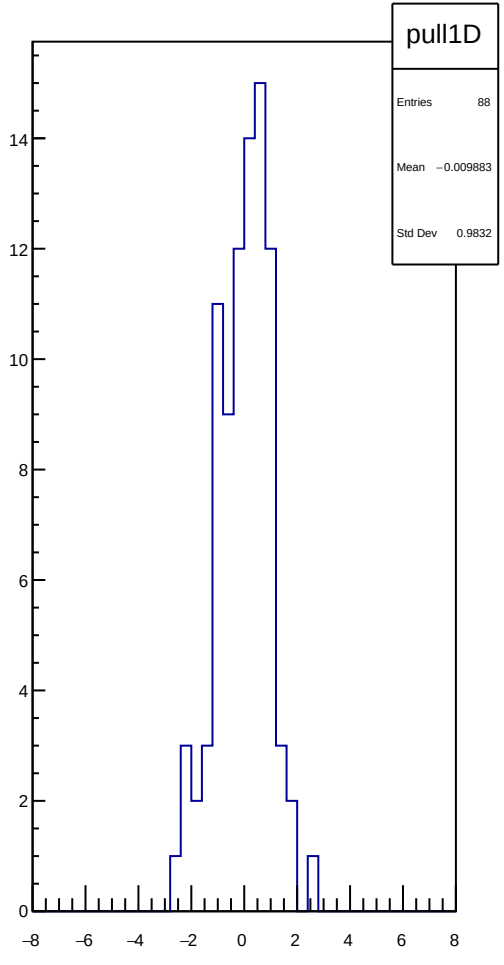

eigen_cor_asym_usl_mean vs run
χ² / ndf 101.7 / 87
p0 −3144 ± 1165
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 231
Std Dev 0
2
1
0
−1
−2

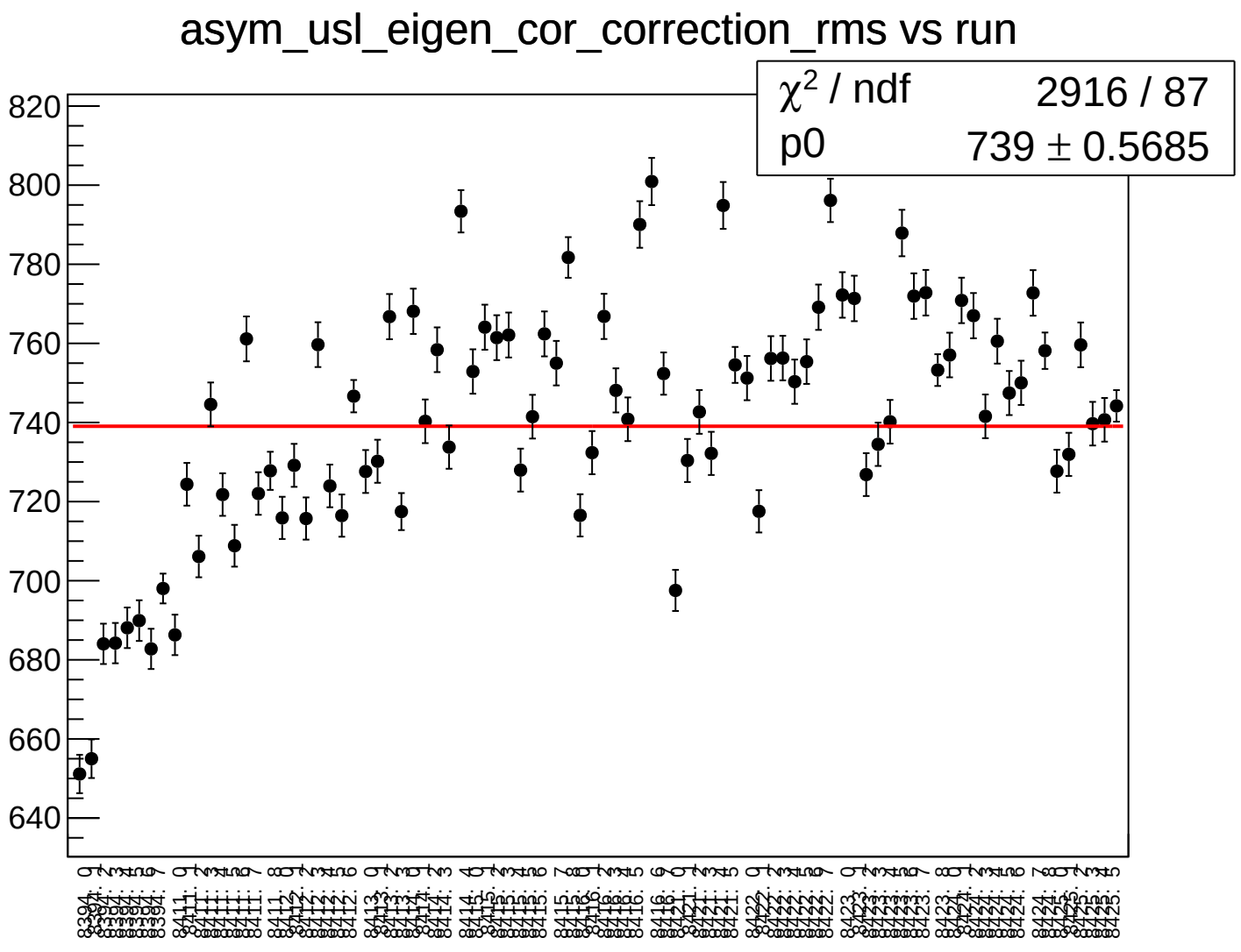

pull1D
Entries 88
Mean −0.001996
Std Dev 1.075
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

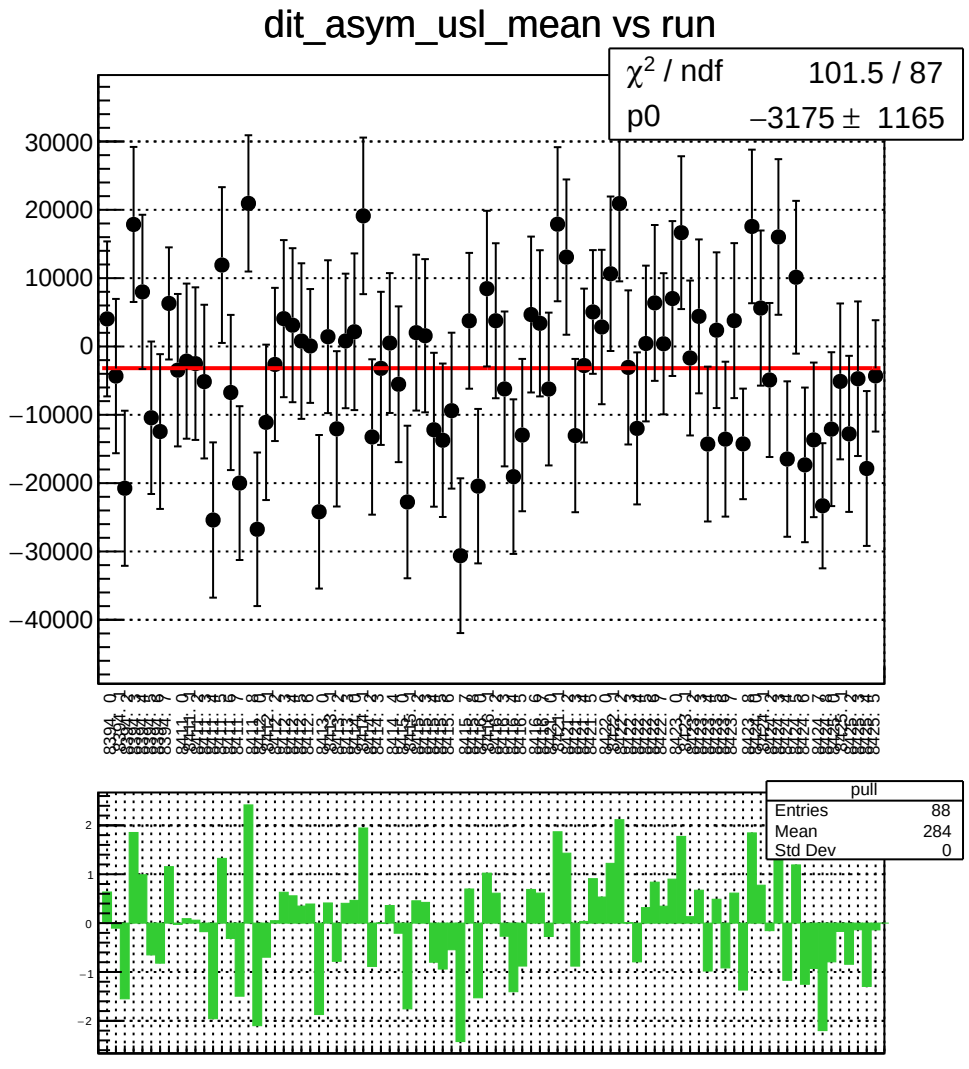
eigen_cor_asym_usl_rms vs run

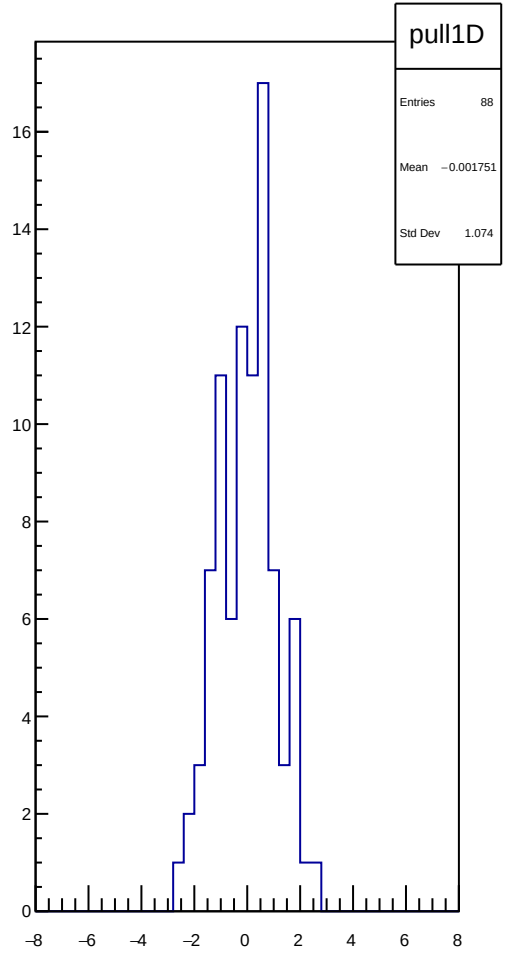


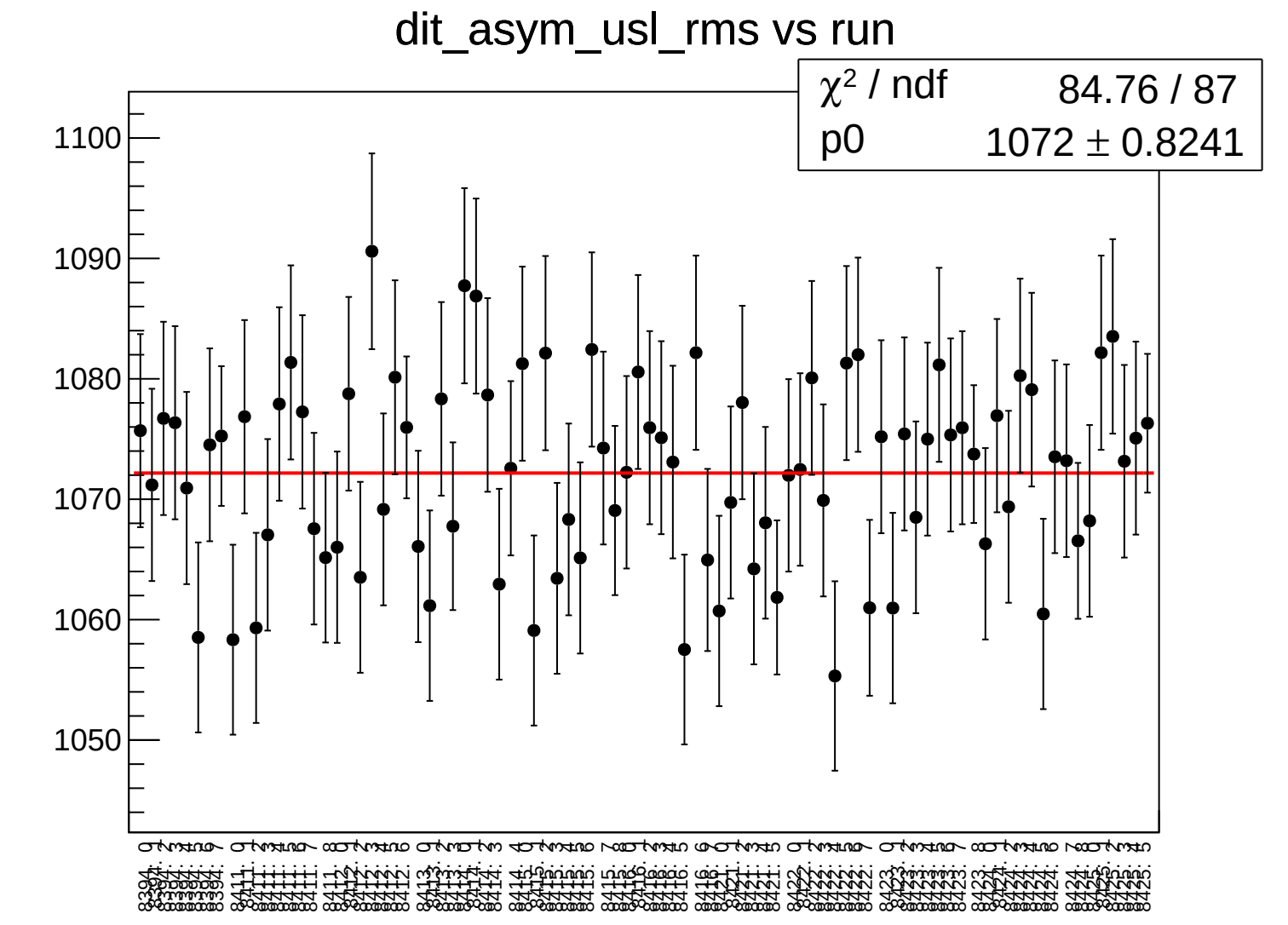

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 85.07 / 87
p0 −5008 ± 804
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 319.9
Std Dev 0
2
1
0
−1
−2

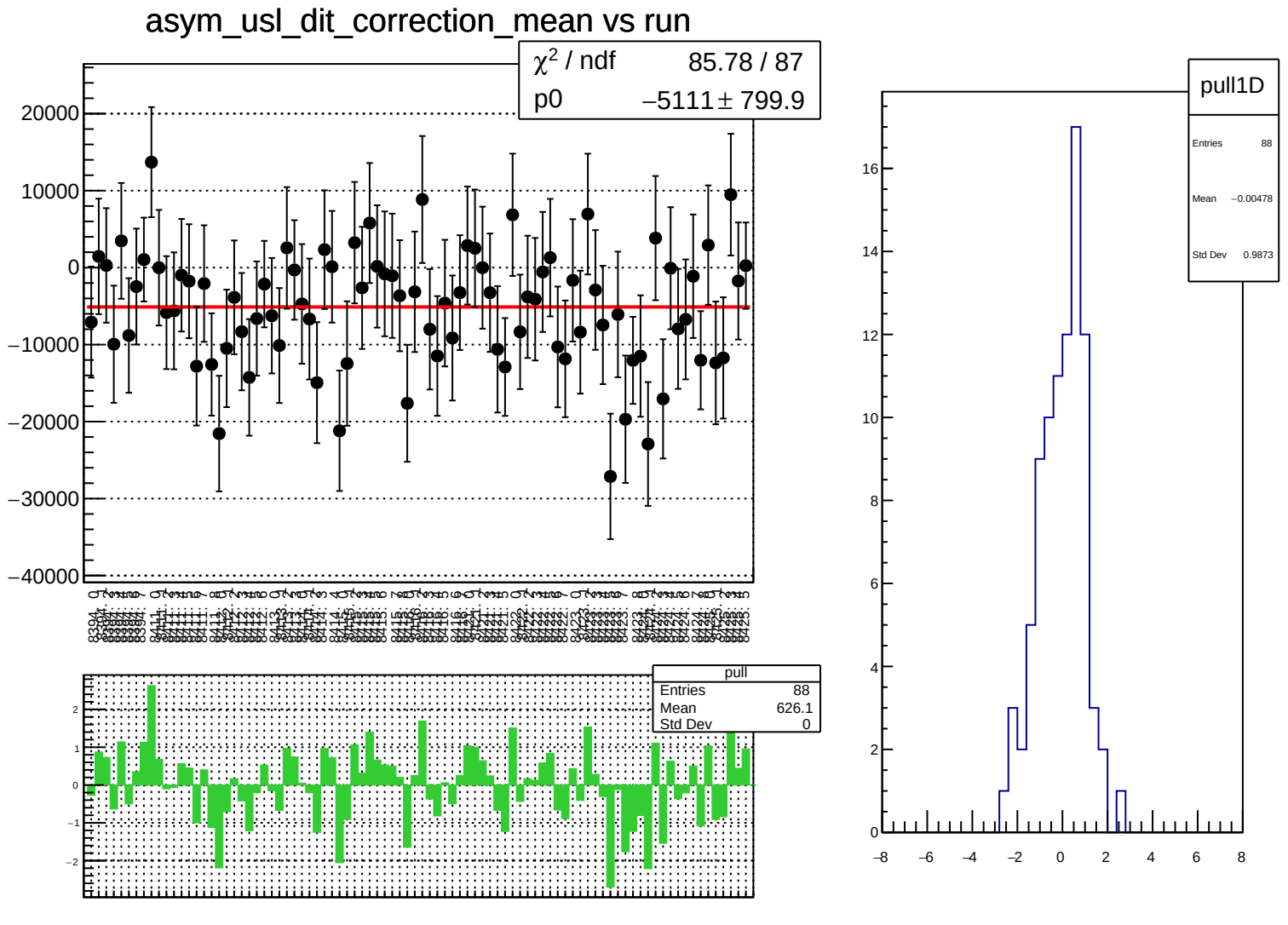

pull1D
Entries 88
Mean −0.009883
Std Dev 0.9832
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

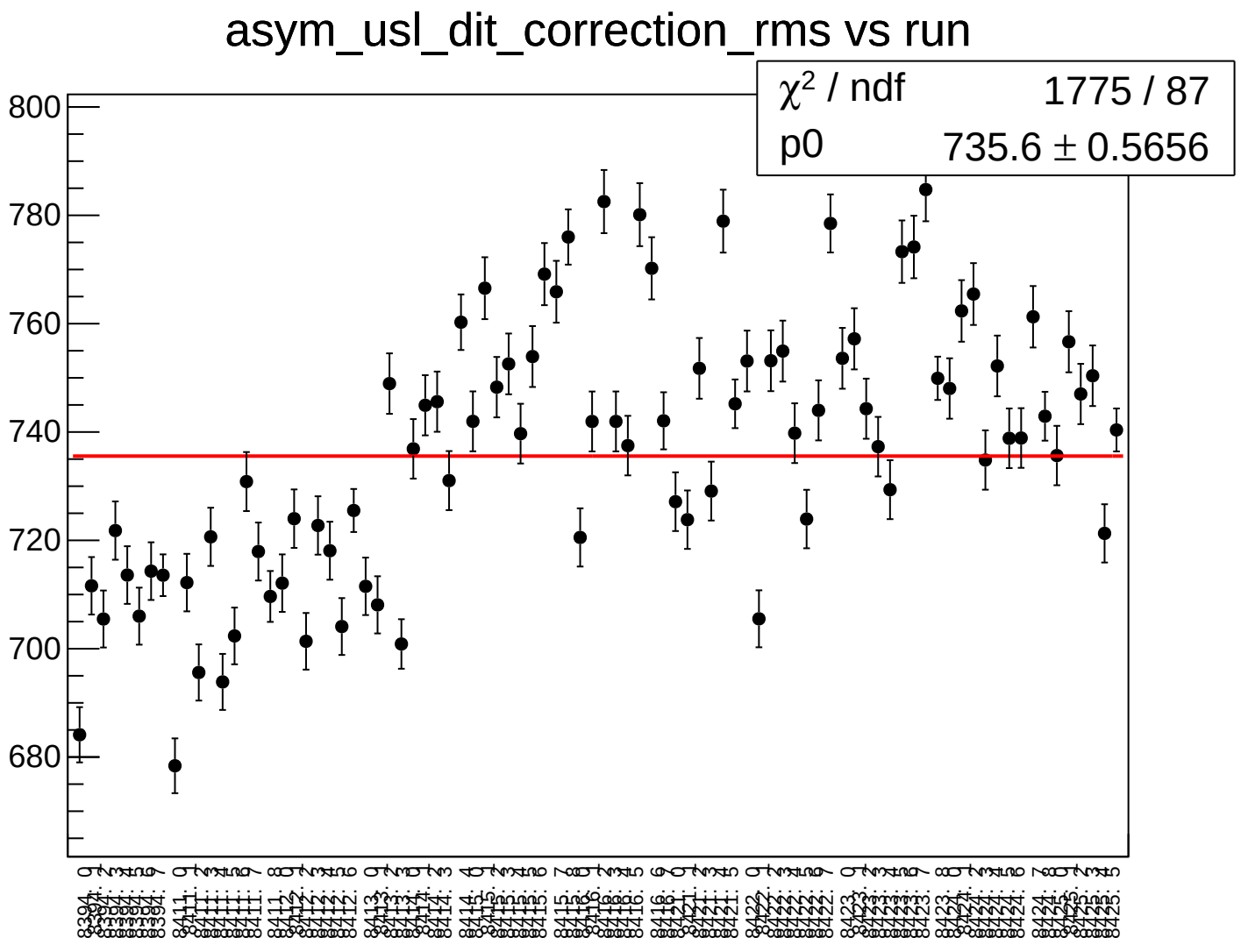

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 2916 / 87
p0 739 ± 0.5685
820
800
780
760
740
720
700
680
660
640

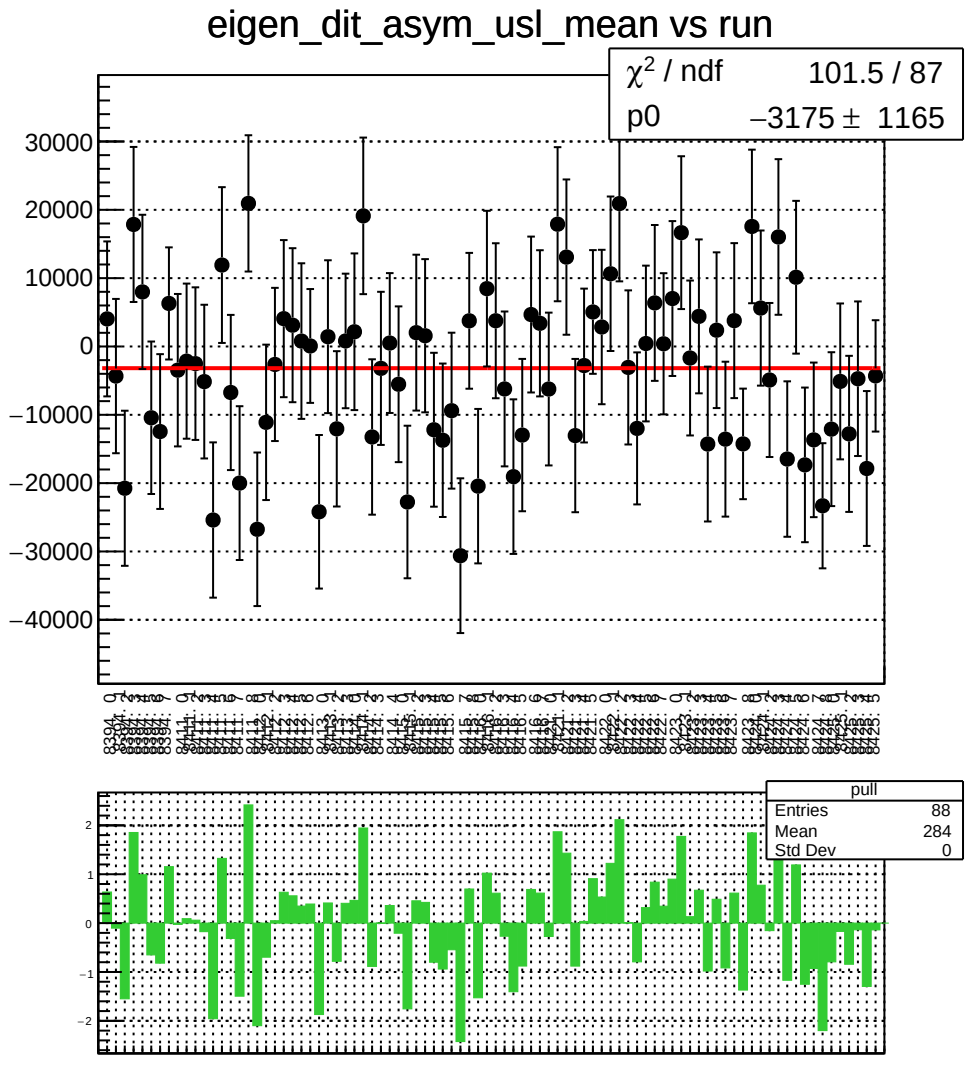

dit_asym_usl_mean vs run
χ² / ndf 101.5 / 87
p0 −3175 ± 1165
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 284
Std Dev 0
2
1
0
−1
−2

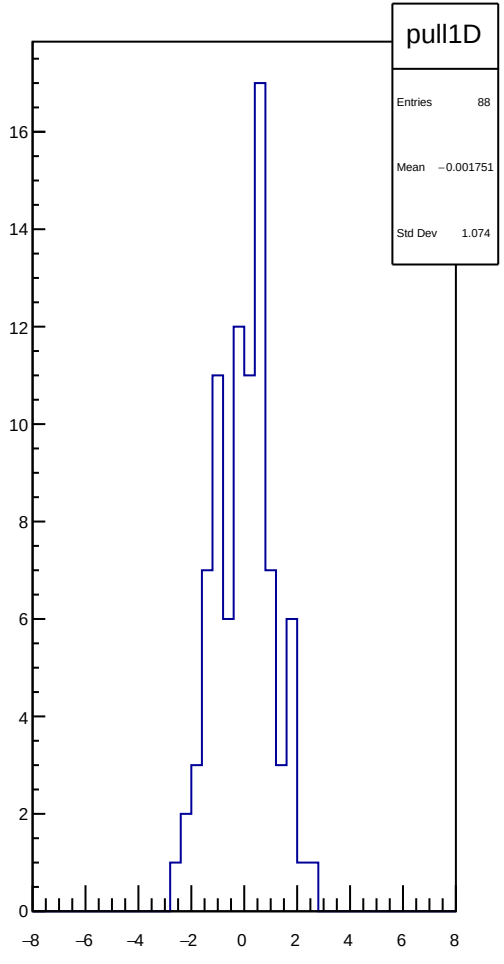

pull1D
Entries 88
Mean −0.001751
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

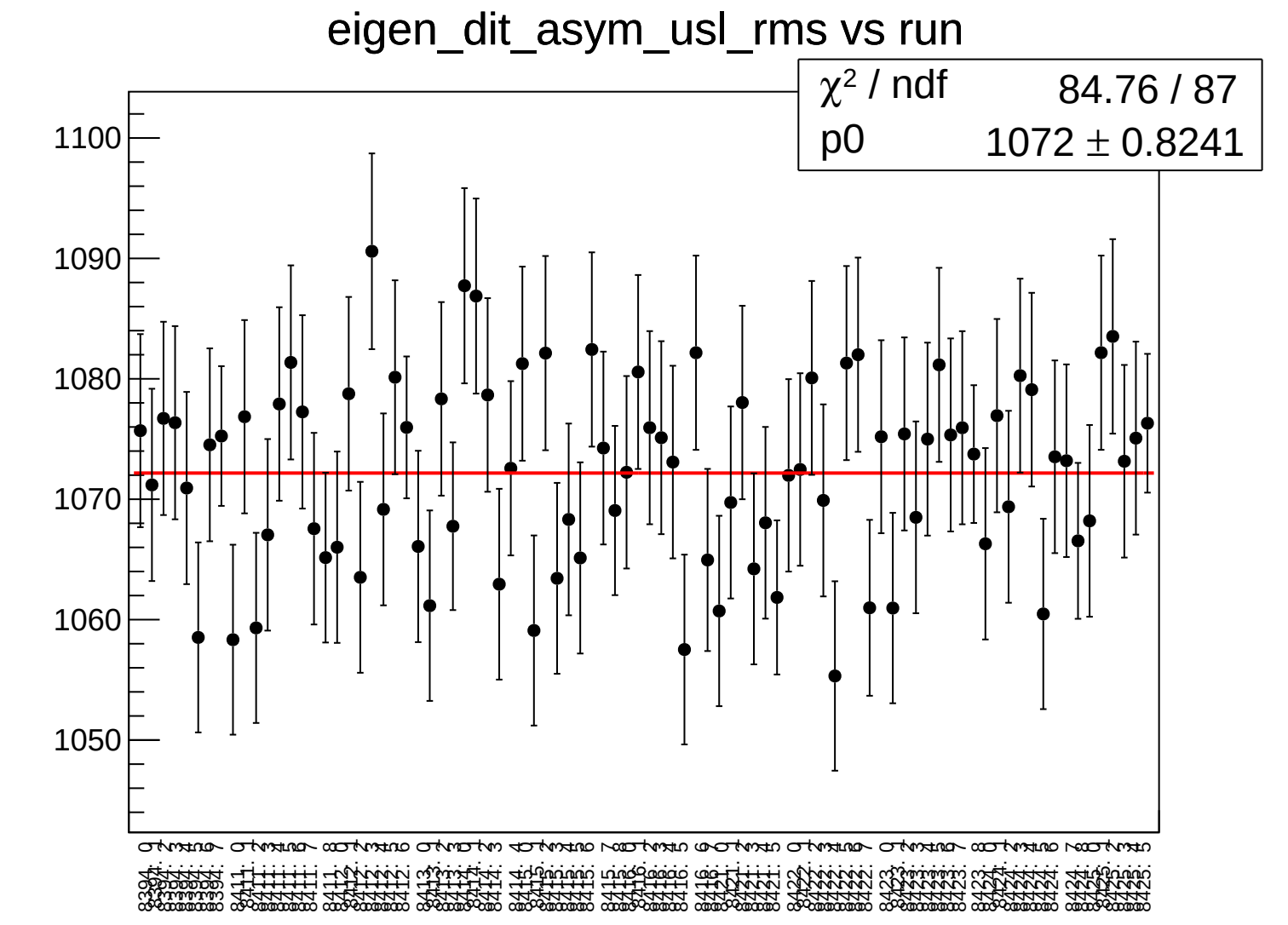

dit_asym_usl_rms vs run
χ² / ndf 84.76 / 87
p0 1072 ± 0.8241
1100
1090
1080
1070
1060
1050

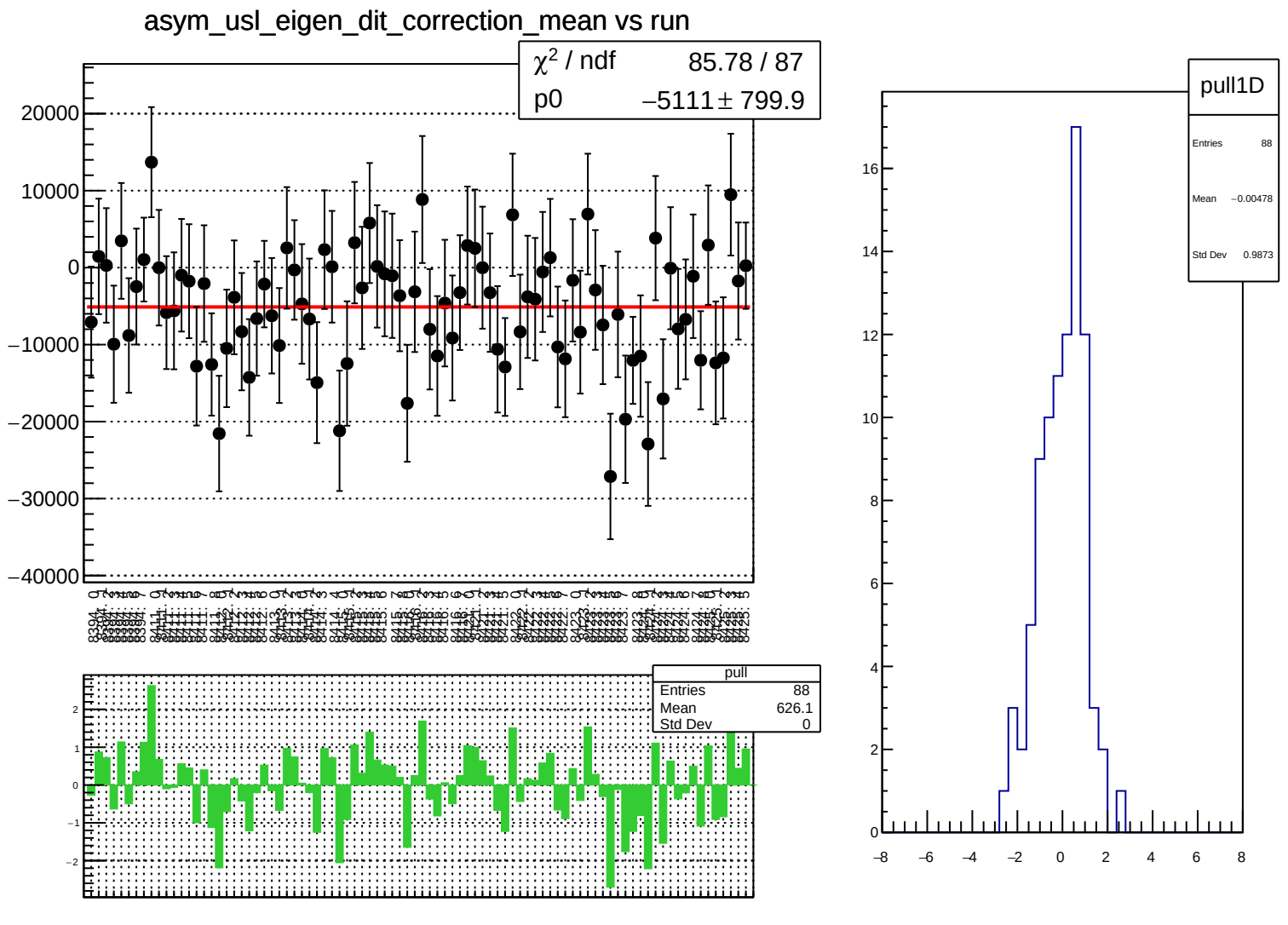

asym_usl_dit_correction_mean vs run
χ² / ndf 85.78 / 87
p0 −5111 ± 799.9
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 626.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.00478
Std Dev 0.9873
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

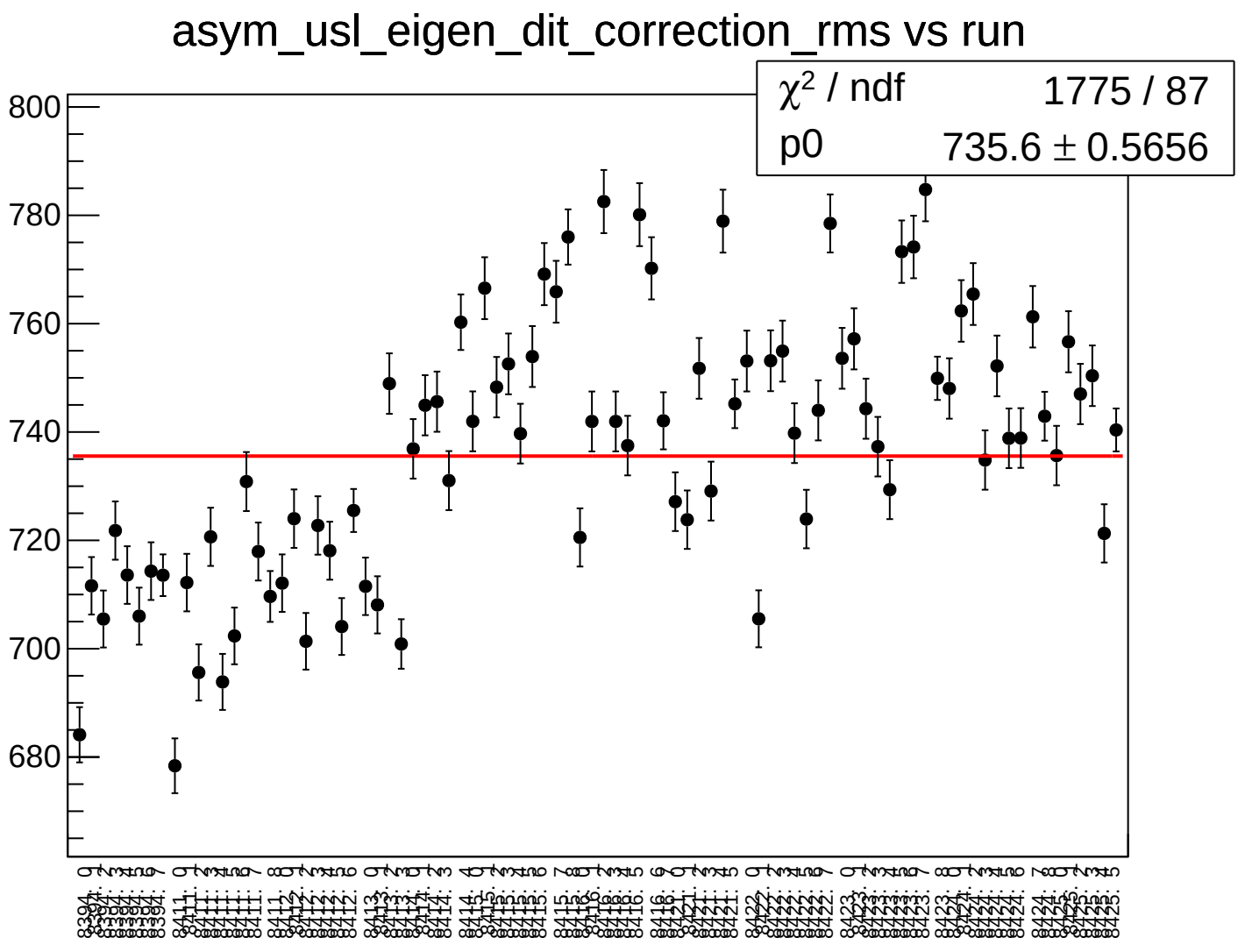

asym_usl_dit_correction_rms vs run
χ² / ndf 1775 / 87
p0 735.6 ± 0.5656
800
780
760
740
720
700
680

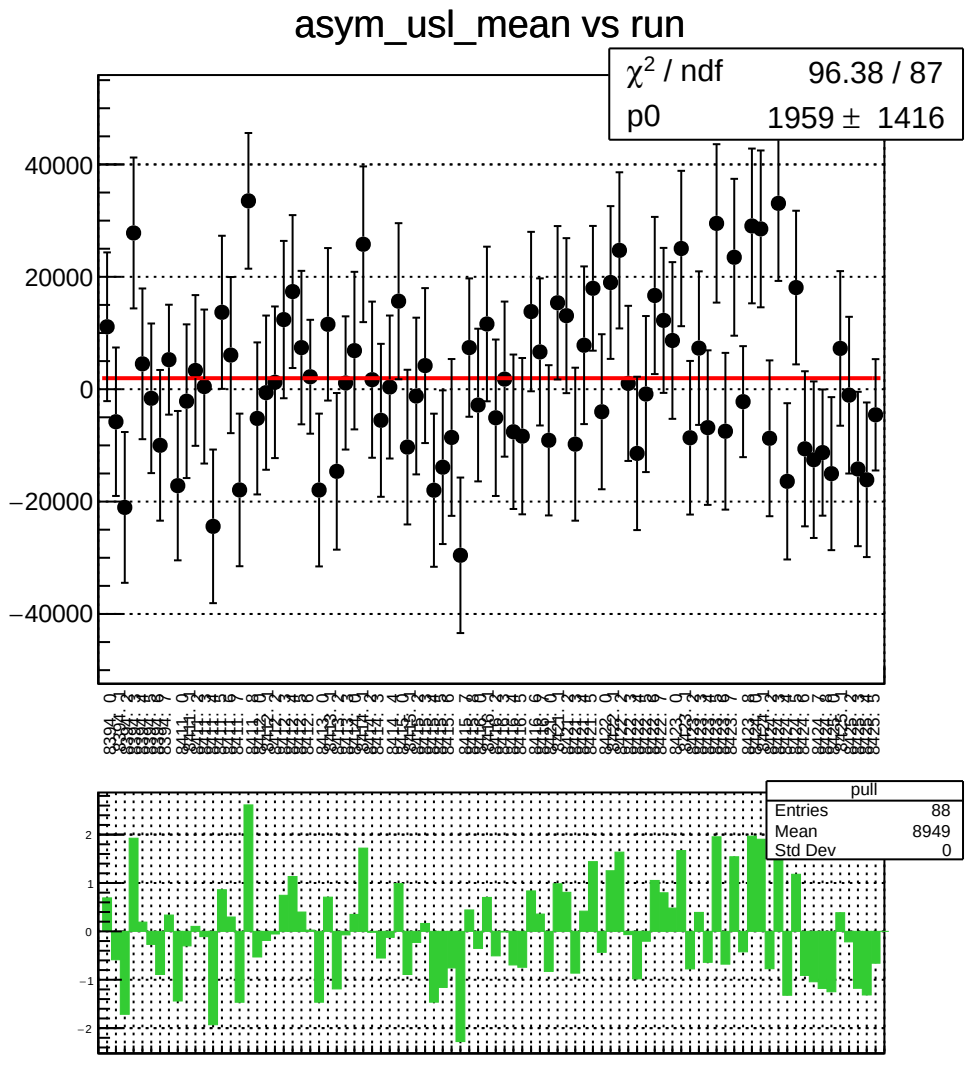

eigen_dit_asym_usl_mean vs run
χ² / ndf 101.5 / 87
p0 −3175 ± 1165
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 284
Std Dev 0
2
1
0
−1
−2

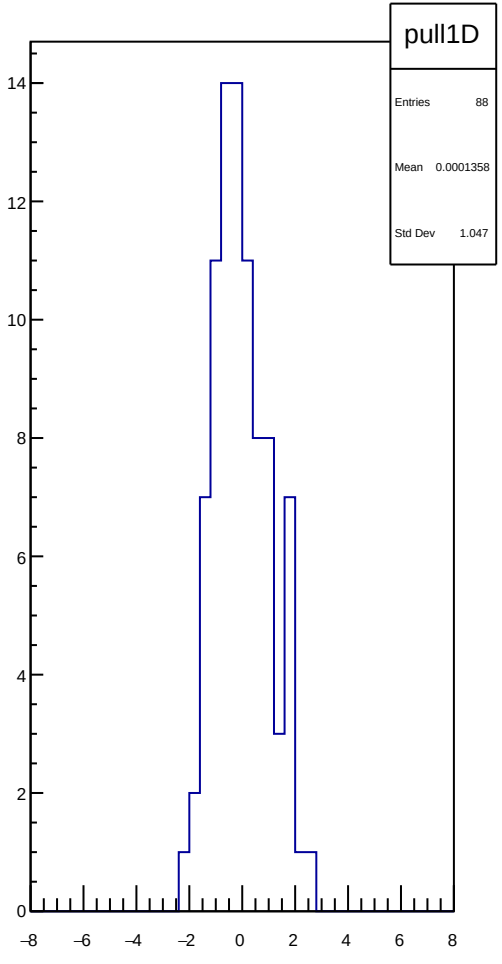

pull1D
Entries 88
Mean −0.001751
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

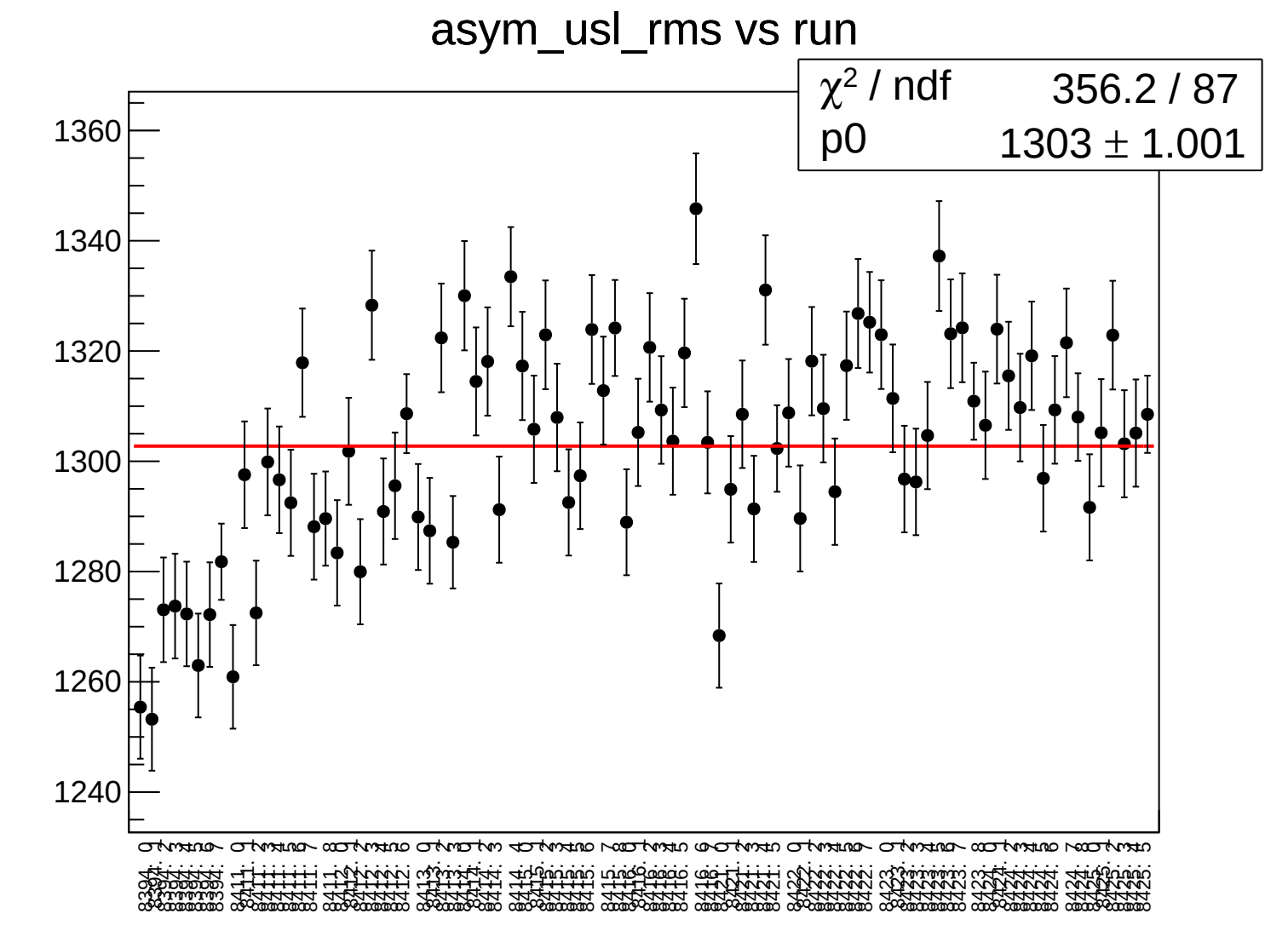

eigen_dit_asym_usl_rms vs run
χ² / ndf 84.76 / 87
p0 1072 ± 0.8241
1100
1090
1080
1070
1060
1050

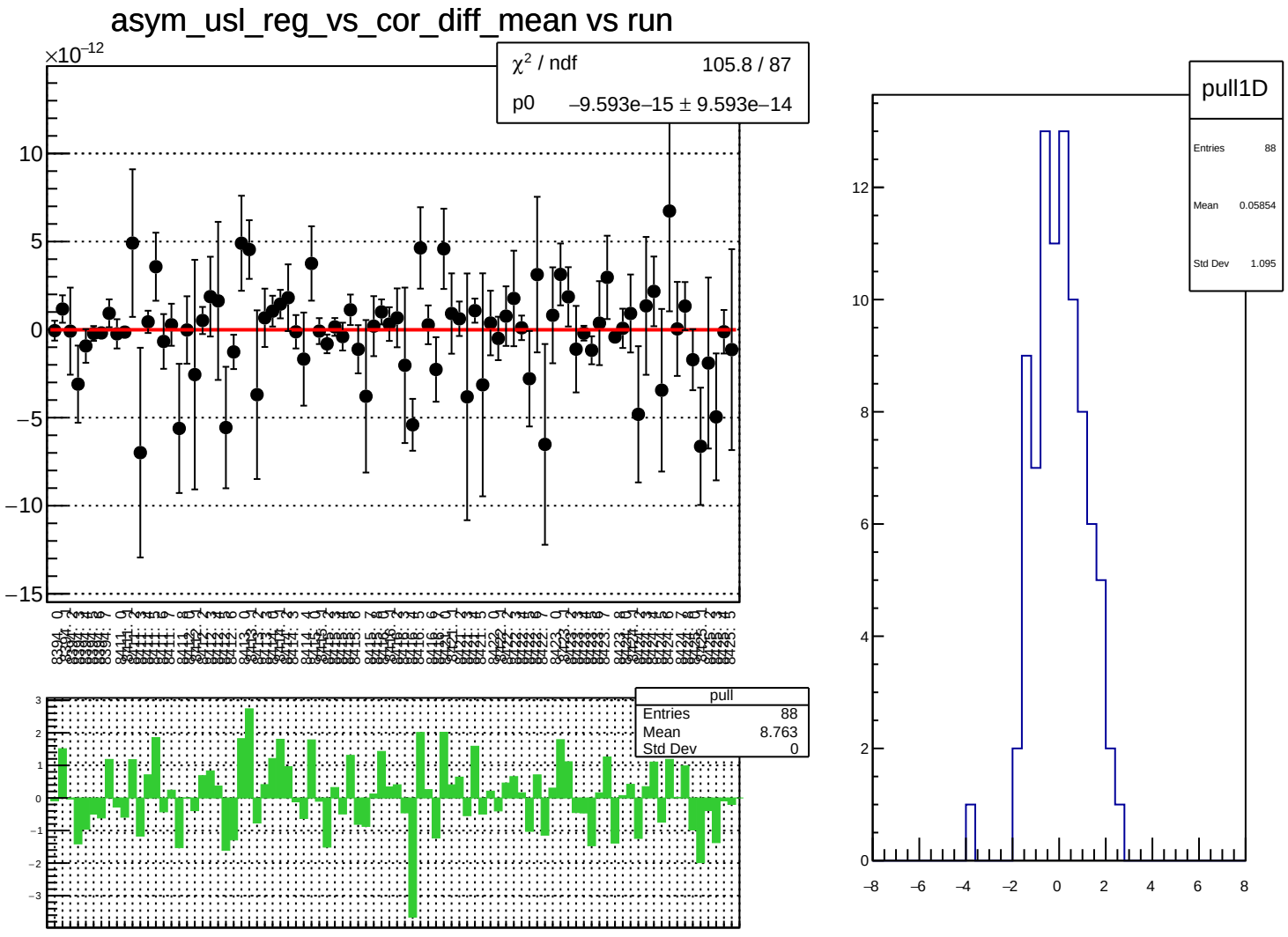

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 85.78 / 87
p0 −5111 ± 799.9
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 626.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.00478
Std Dev 0.9873
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

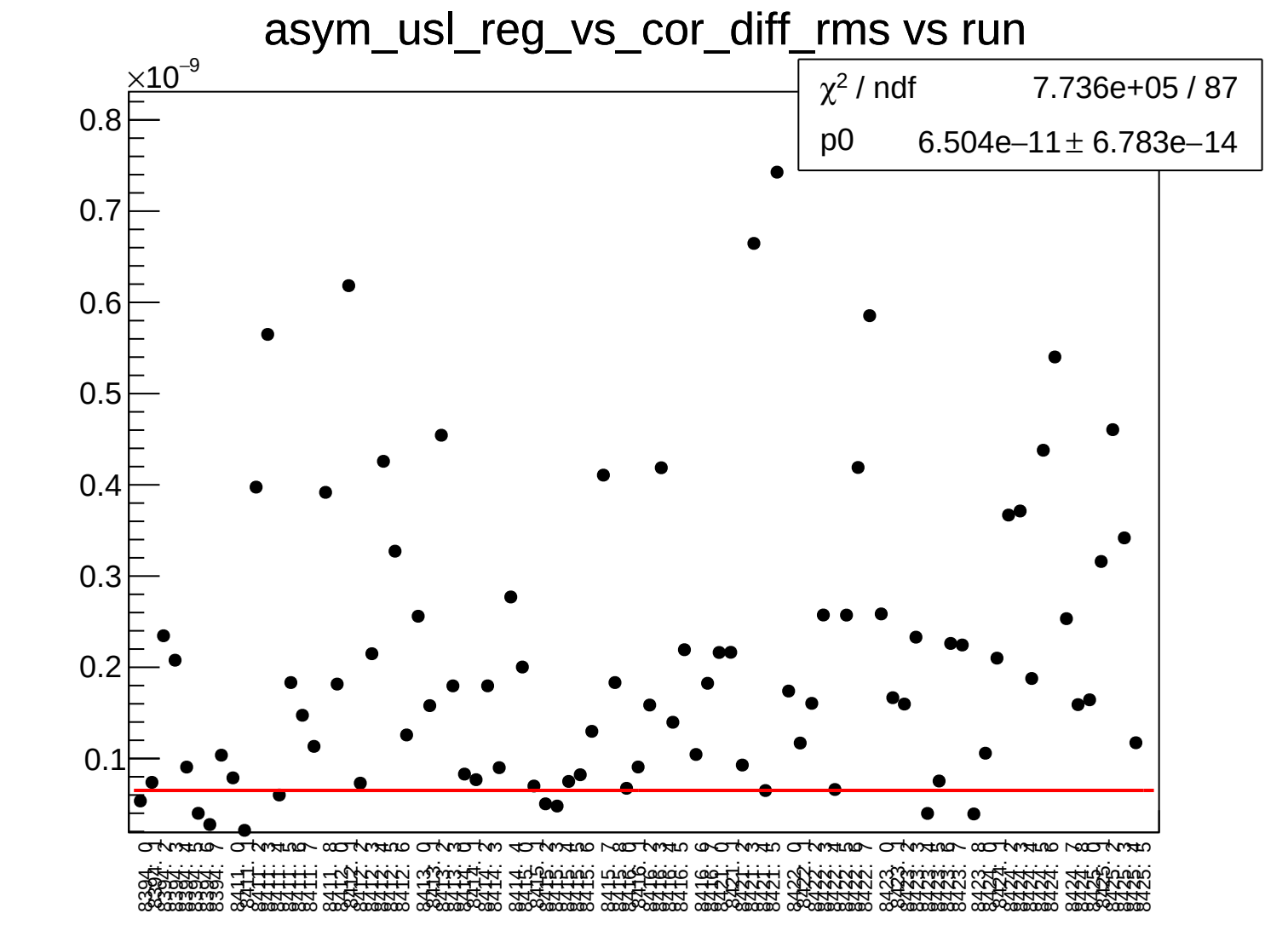

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 1775 / 87
p0 735.6 ± 0.5656
800
780
760
740
720
700
680

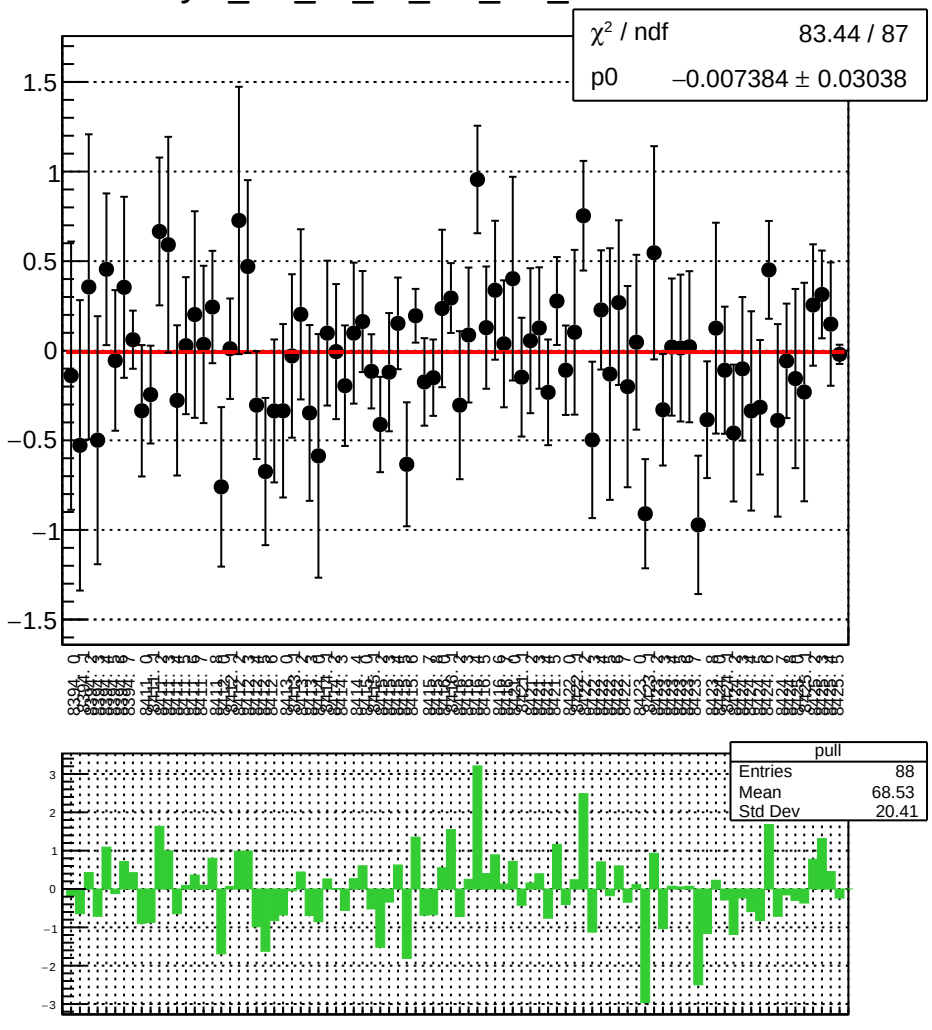

asym_usl_mean vs run
χ² / ndf 96.38 / 87
p0 1959 ± 1416
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 8949
Std Dev 0
2
1
0
−1
−2

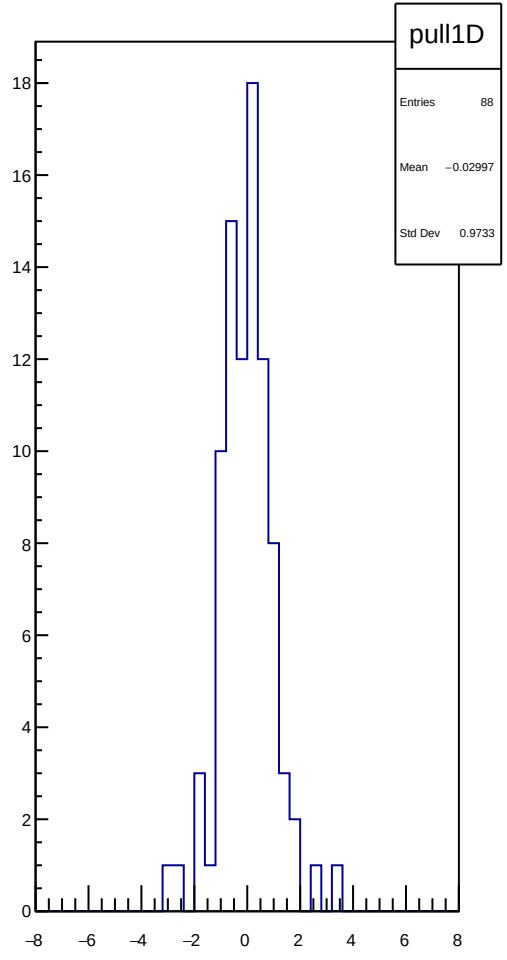

pull1D
Entries 88
Mean 0.0001358
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

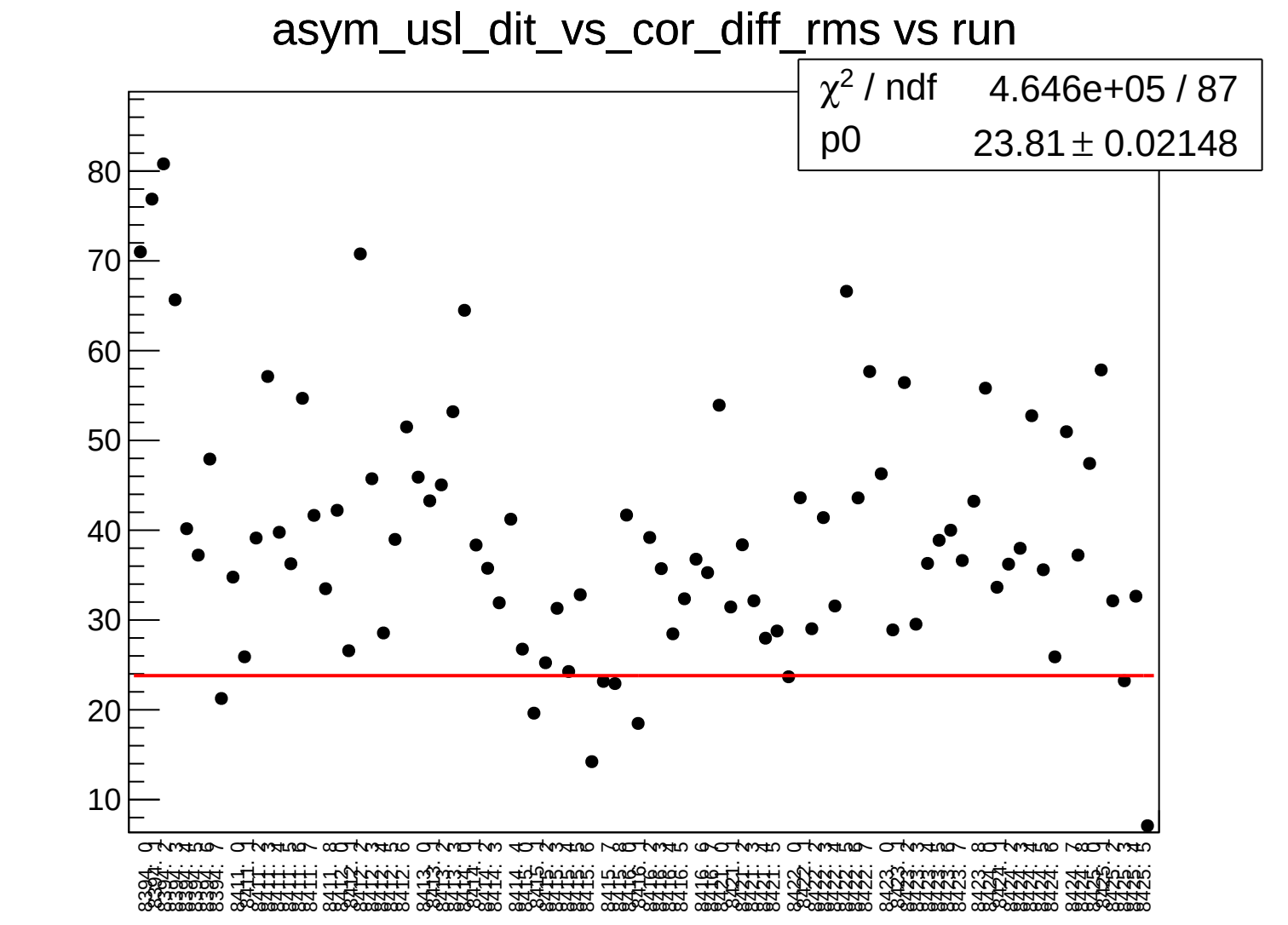

asym_usl_rms vs run
χ² / ndf 356.2 / 87
p0 1303 ± 1.001
1360
1340
1320
1300
1280
1260
1240

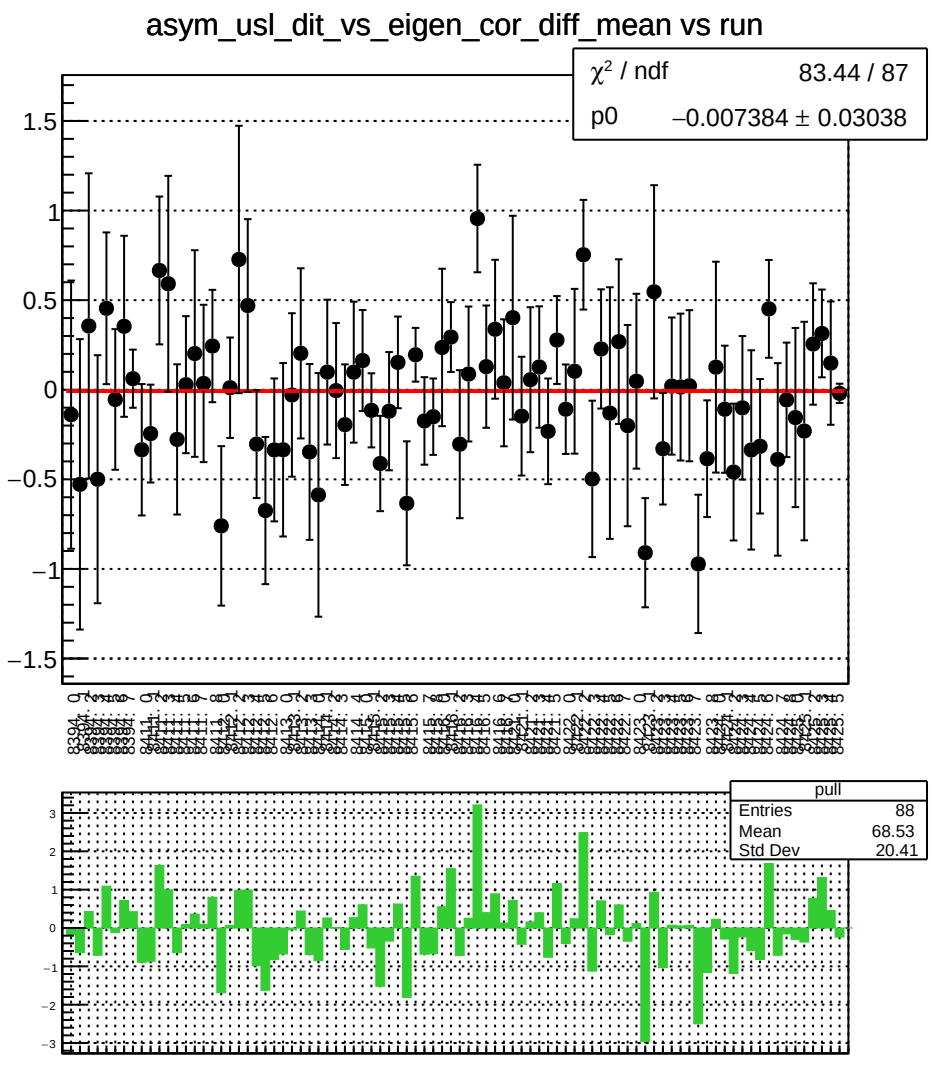

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 105.8 / 87
p0 −9.593e−15 ± 9.593e−14
10
5
0
−5
−10
−15
pull
Entries 88
Mean 8.763
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.05854
Std Dev 1.095
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

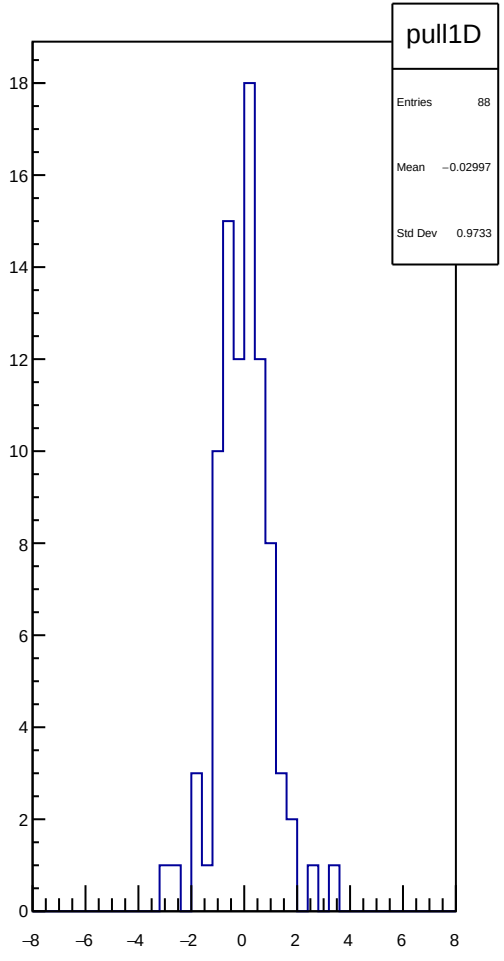

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.736e+05 / 87
p0 6.504e−11 ± 6.783e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

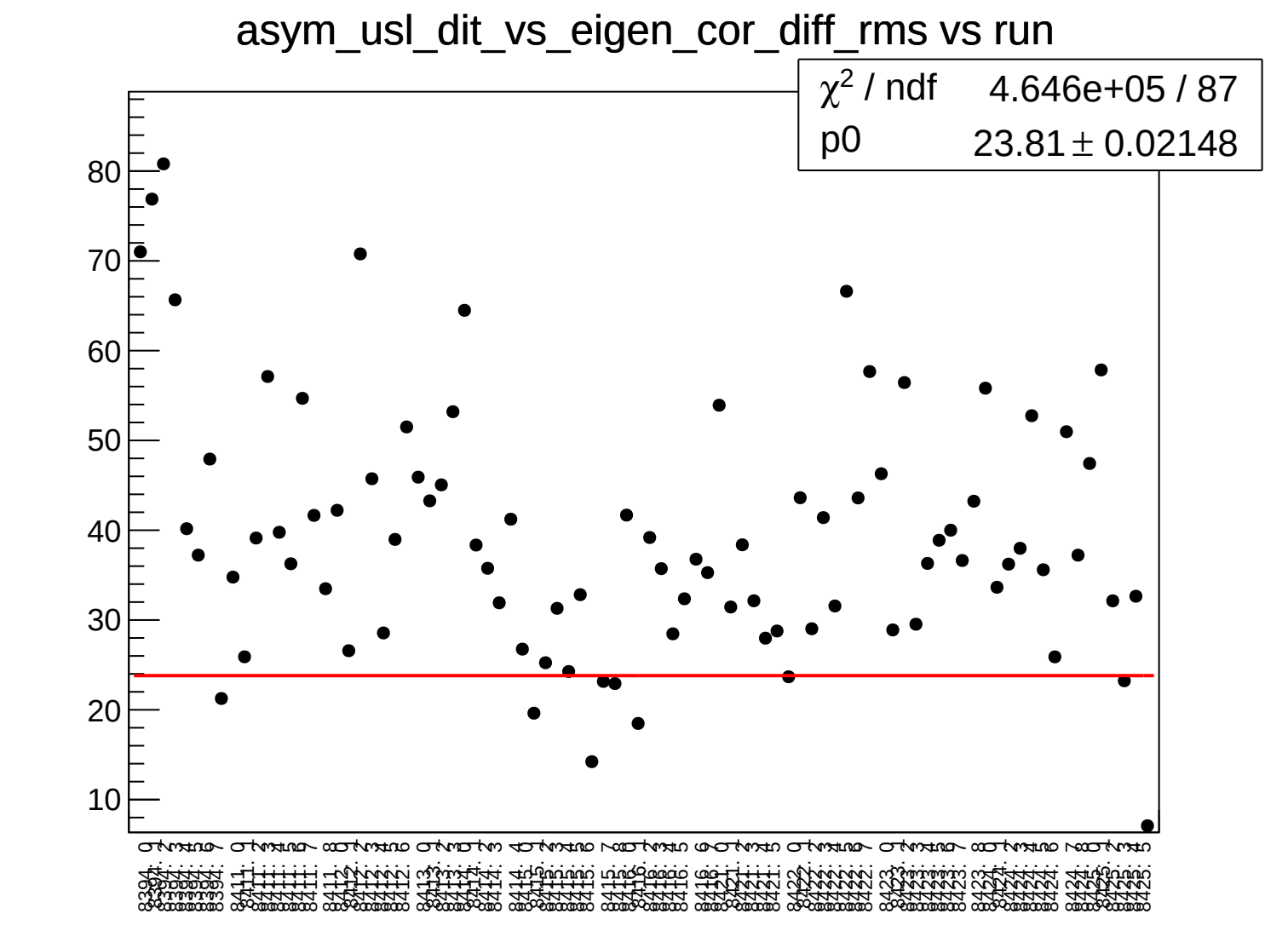

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 83.44 / 87
p0 −0.007384 ± 0.03038
pull
Entries 88
Mean 68.53
Std Dev 20.41

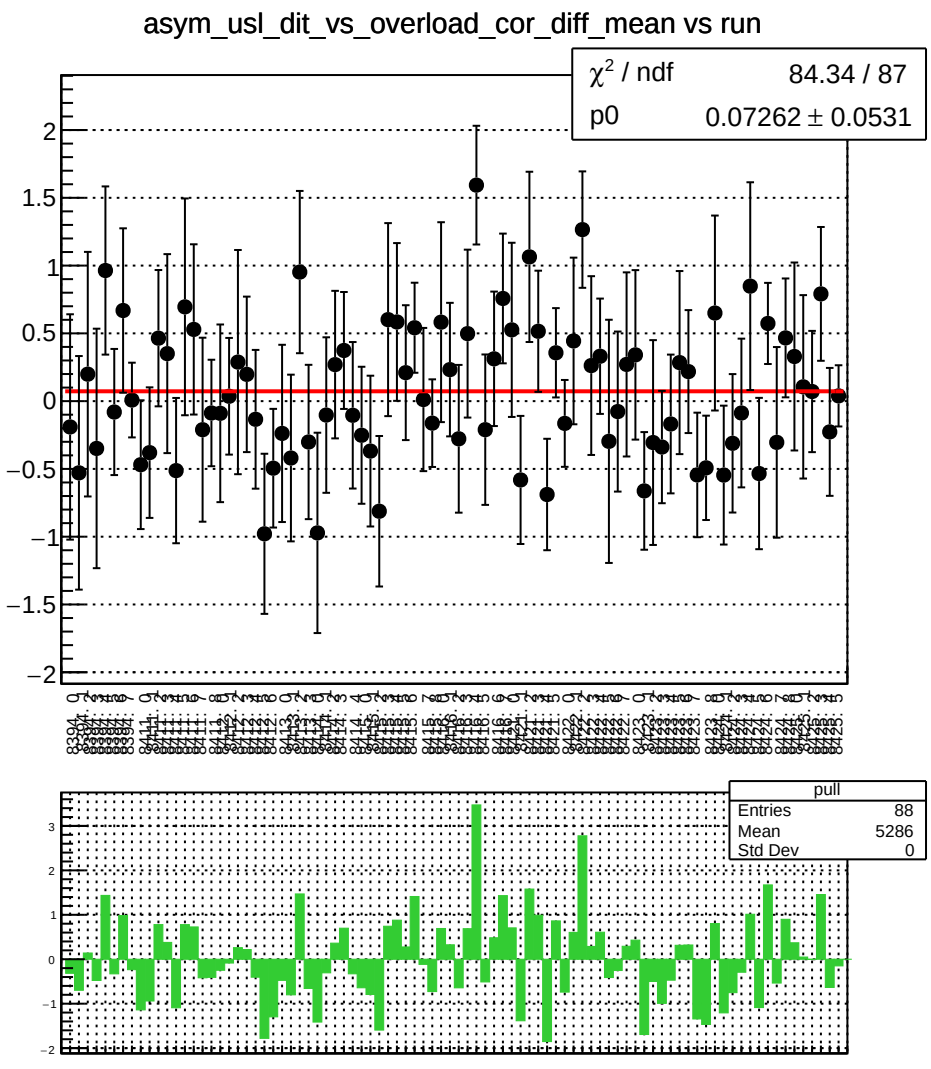

pull1D
Entries 88
Mean −0.02997
Std Dev 0.9733

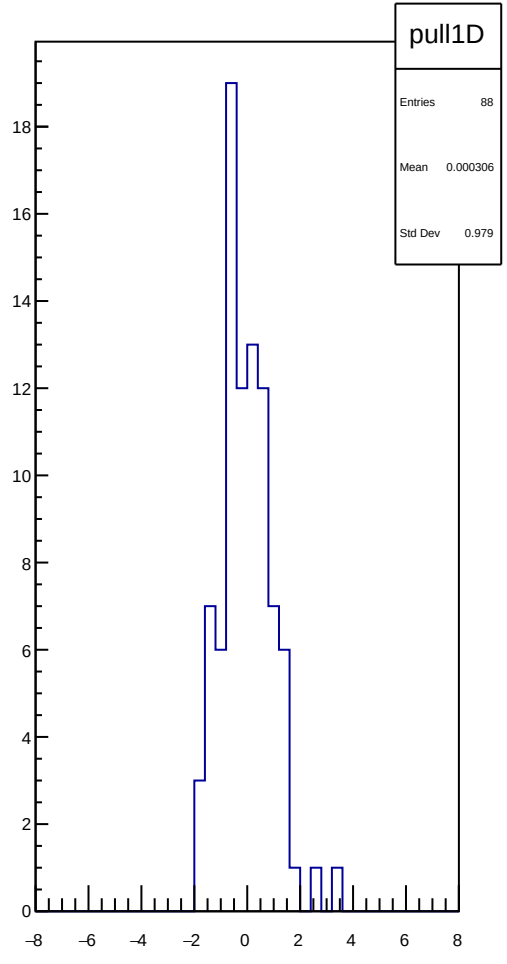

asym_usl_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.646e+05 / 87
p0 23.81 ± 0.02148
80
70
60
50
40
30
20
10

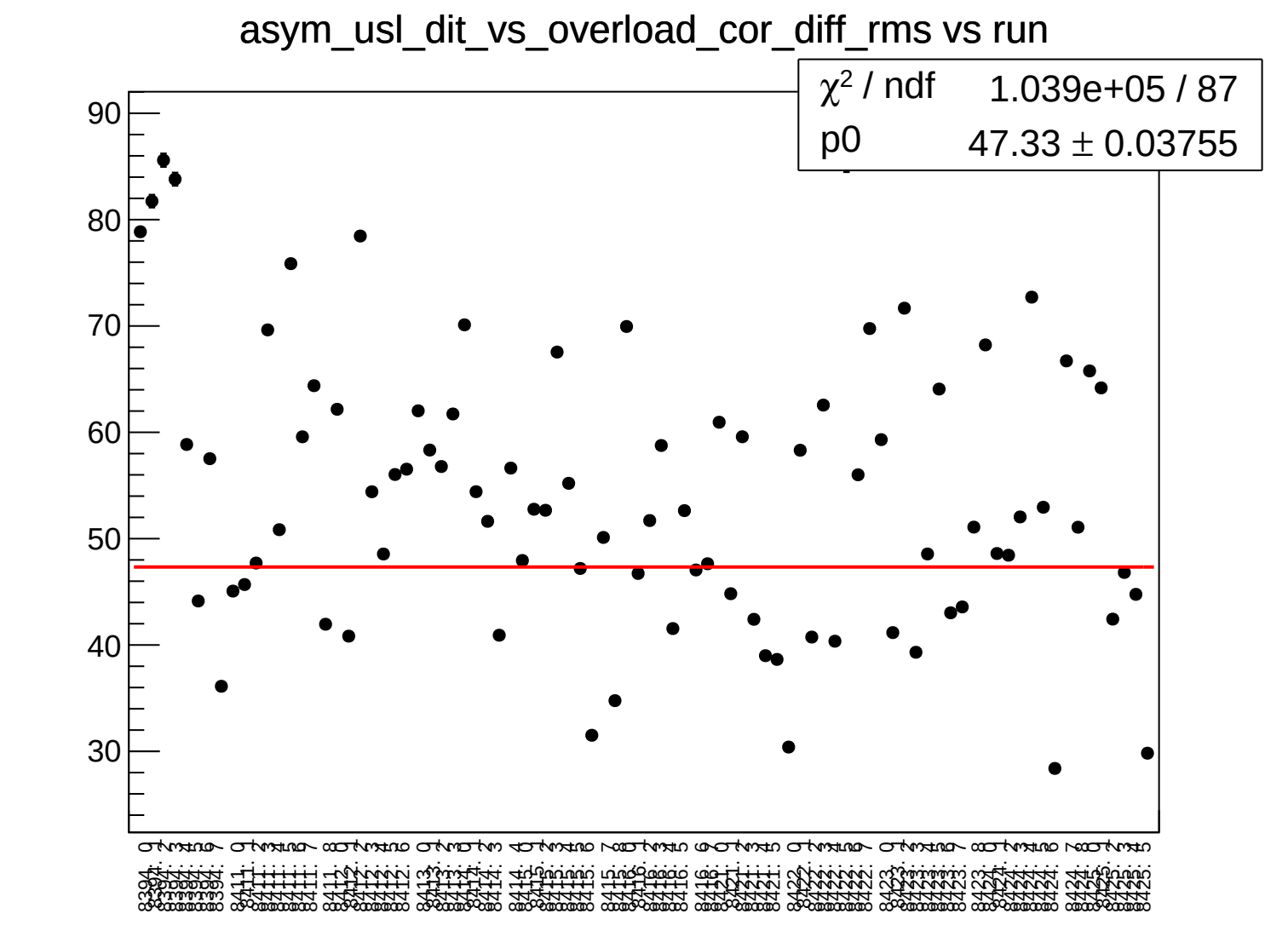

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.44 / 87
p0 −0.007384 ± 0.03038
pull
Entries 88
Mean 68.53
Std Dev 20.41

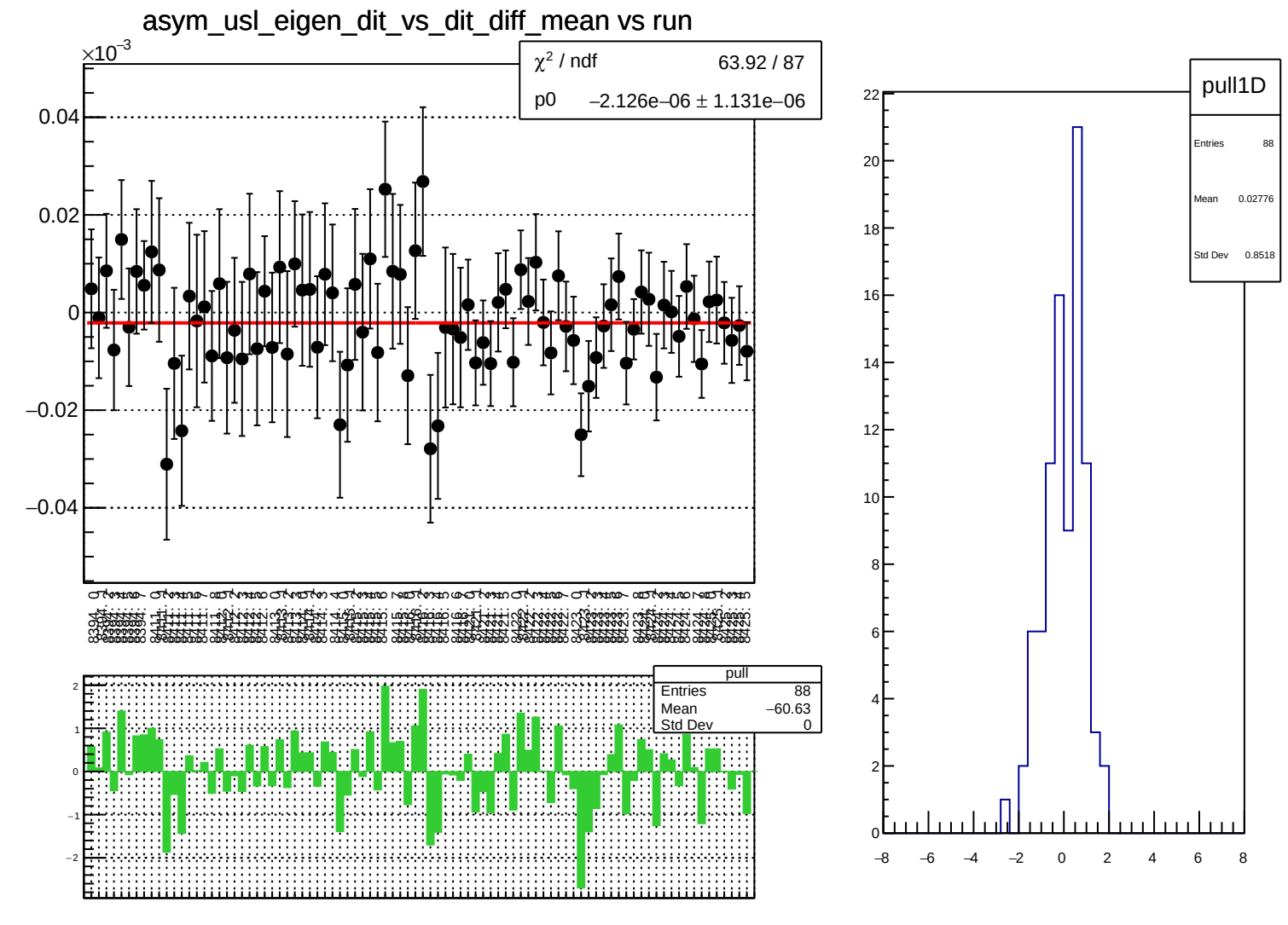

pull1D
Entries 88
Mean −0.02997
Std Dev 0.9733


asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 4.646e+05 / 87
p0 23.81 ± 0.02148
80
70
60
50
40
30
20
10

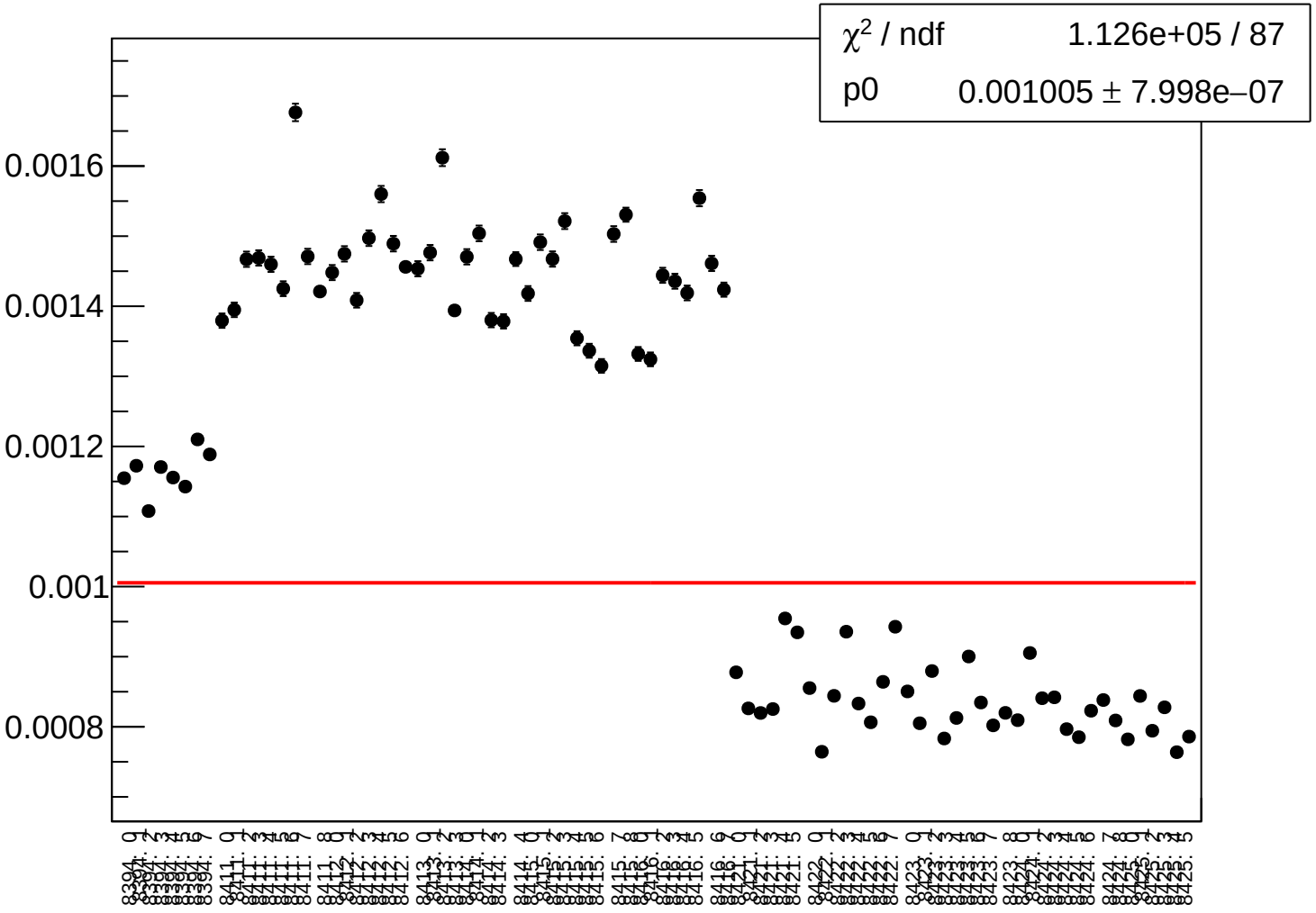

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 84.34 / 87
p0 0.07262 ± 0.0531
pull
Entries 88
Mean 5286
Std Dev 0

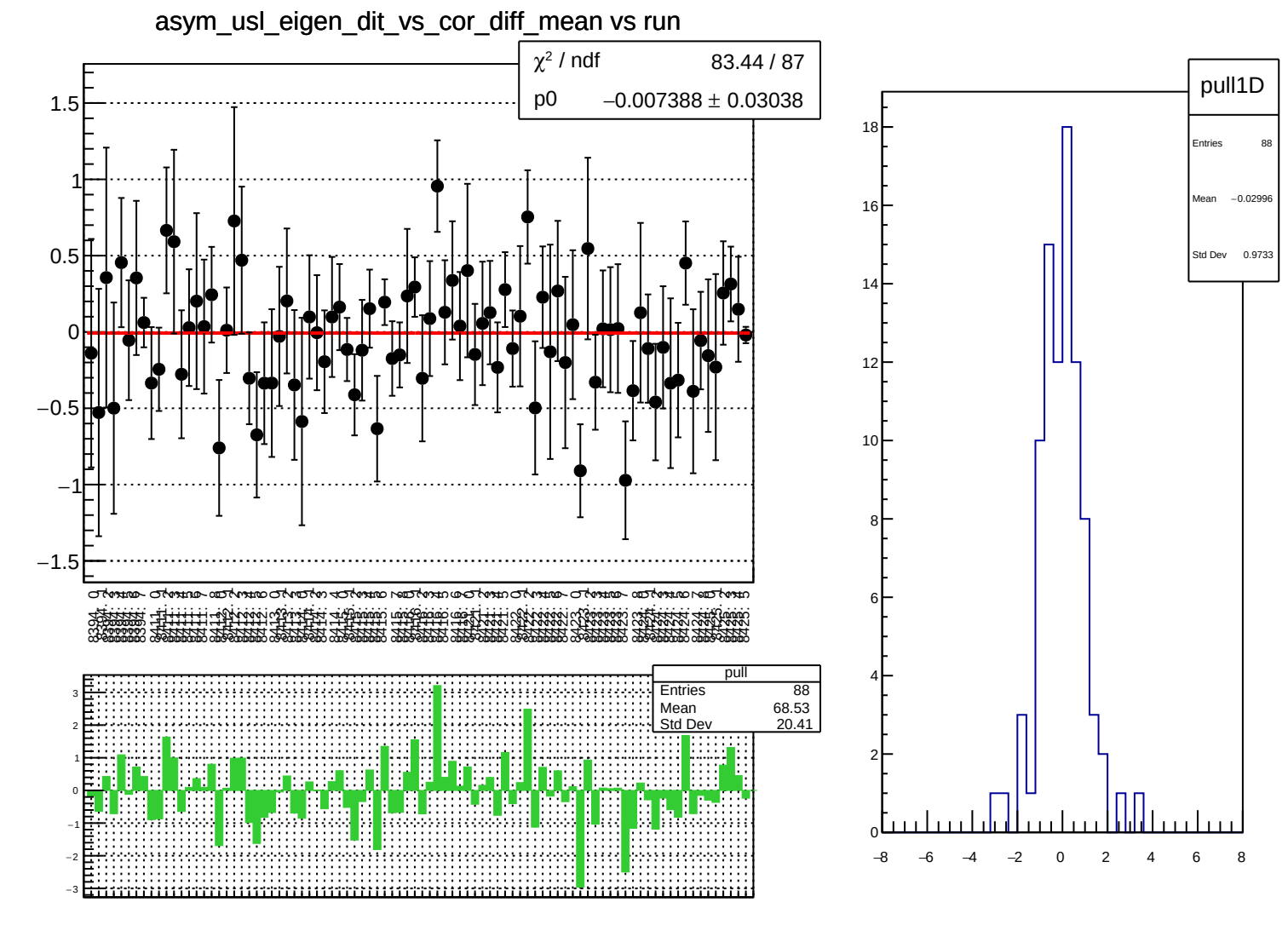

pull1D
Entries 88
Mean 0.000306
Std Dev 0.979

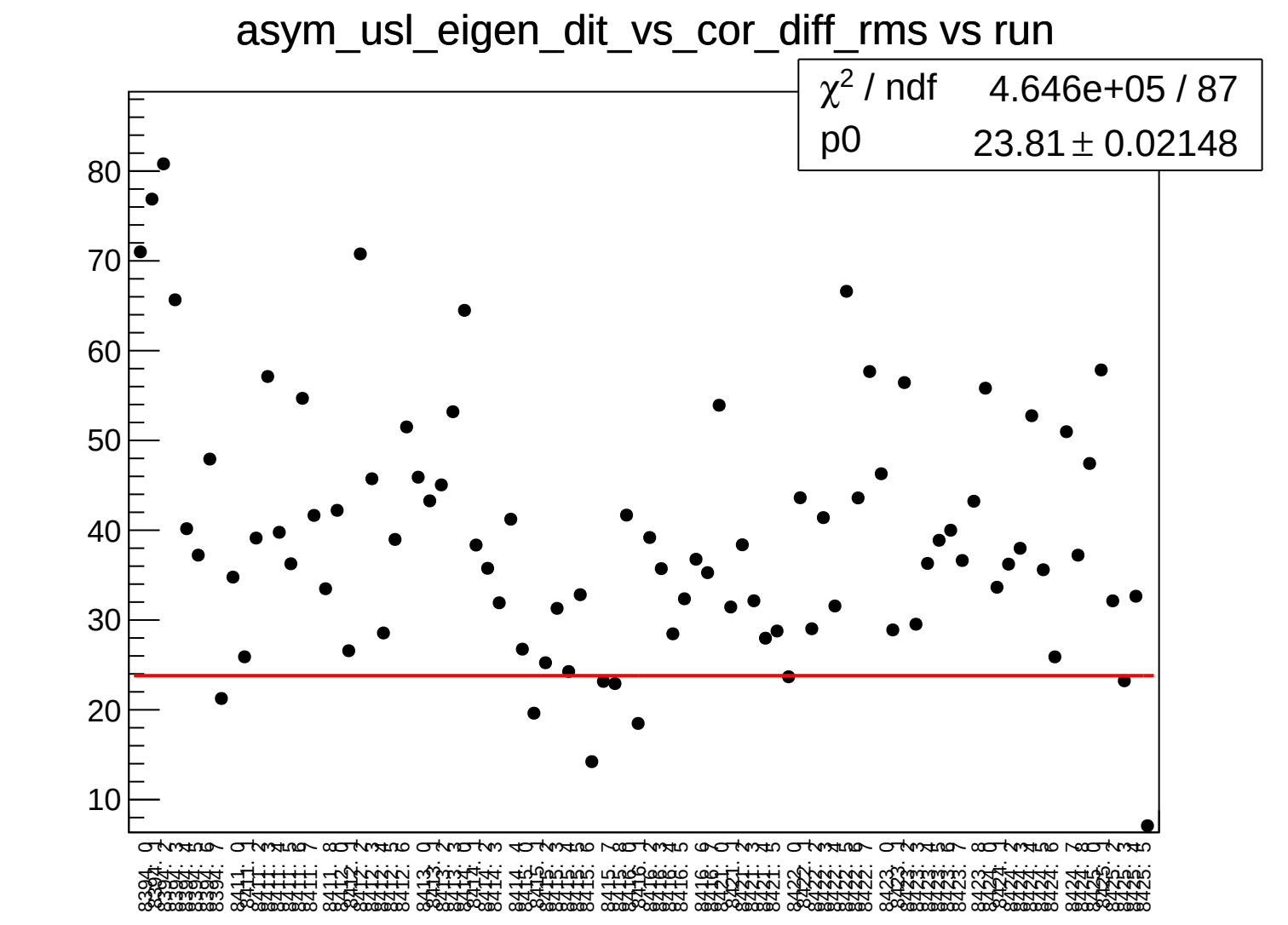

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ^2 / ndf 1.039e+05 / 87
p0 47.33 ± 0.03755
90
80
70
60
50
40
30

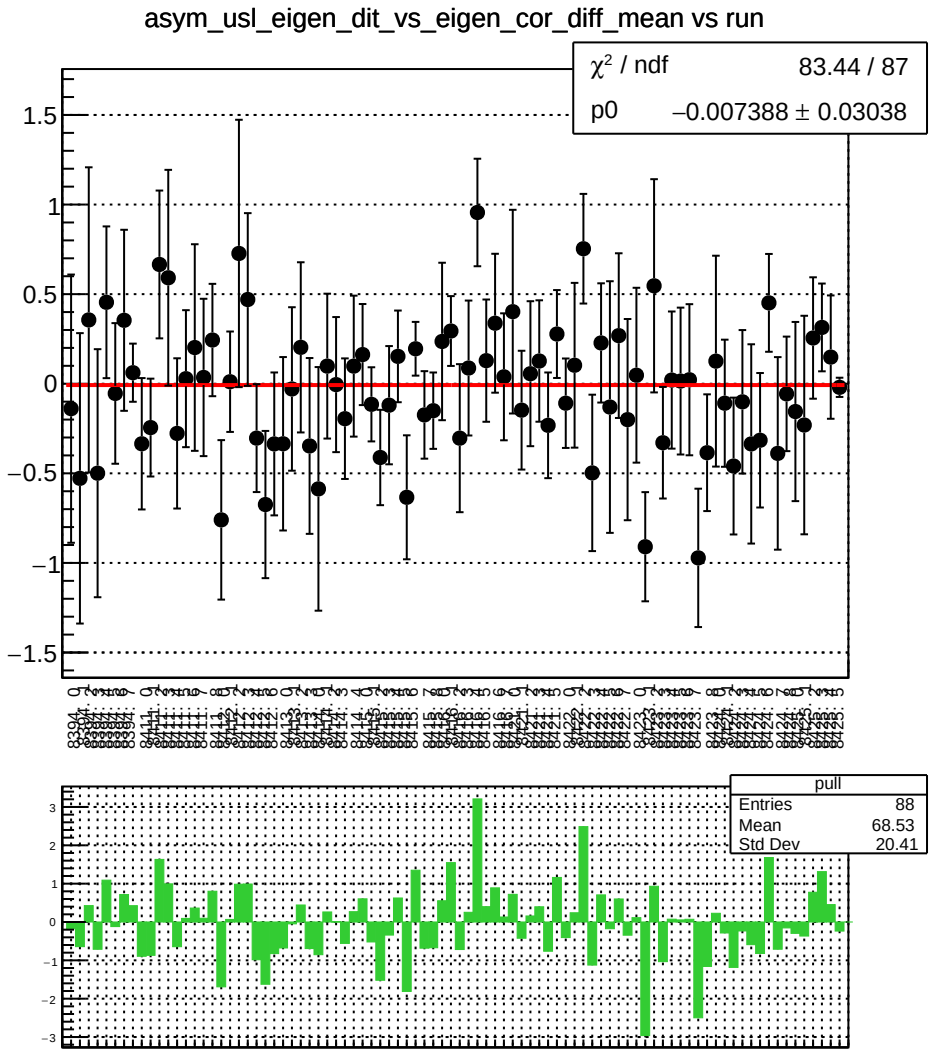

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 63.92 / 87
p0 −2.126e−06 ± 1.131e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 88
Mean −60.63
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.02776
Std Dev 0.8518
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

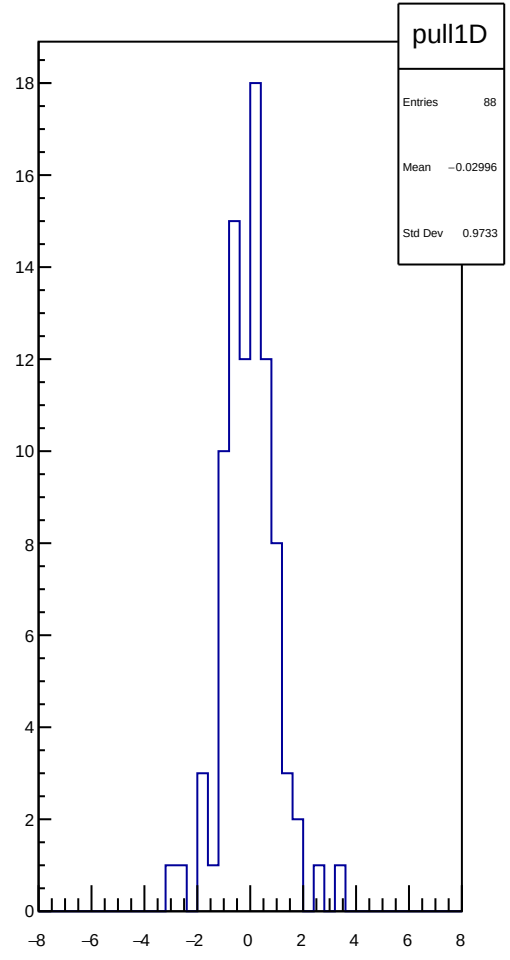
asym_usl_eigen_dit_vs_dit_diff_rms vs run

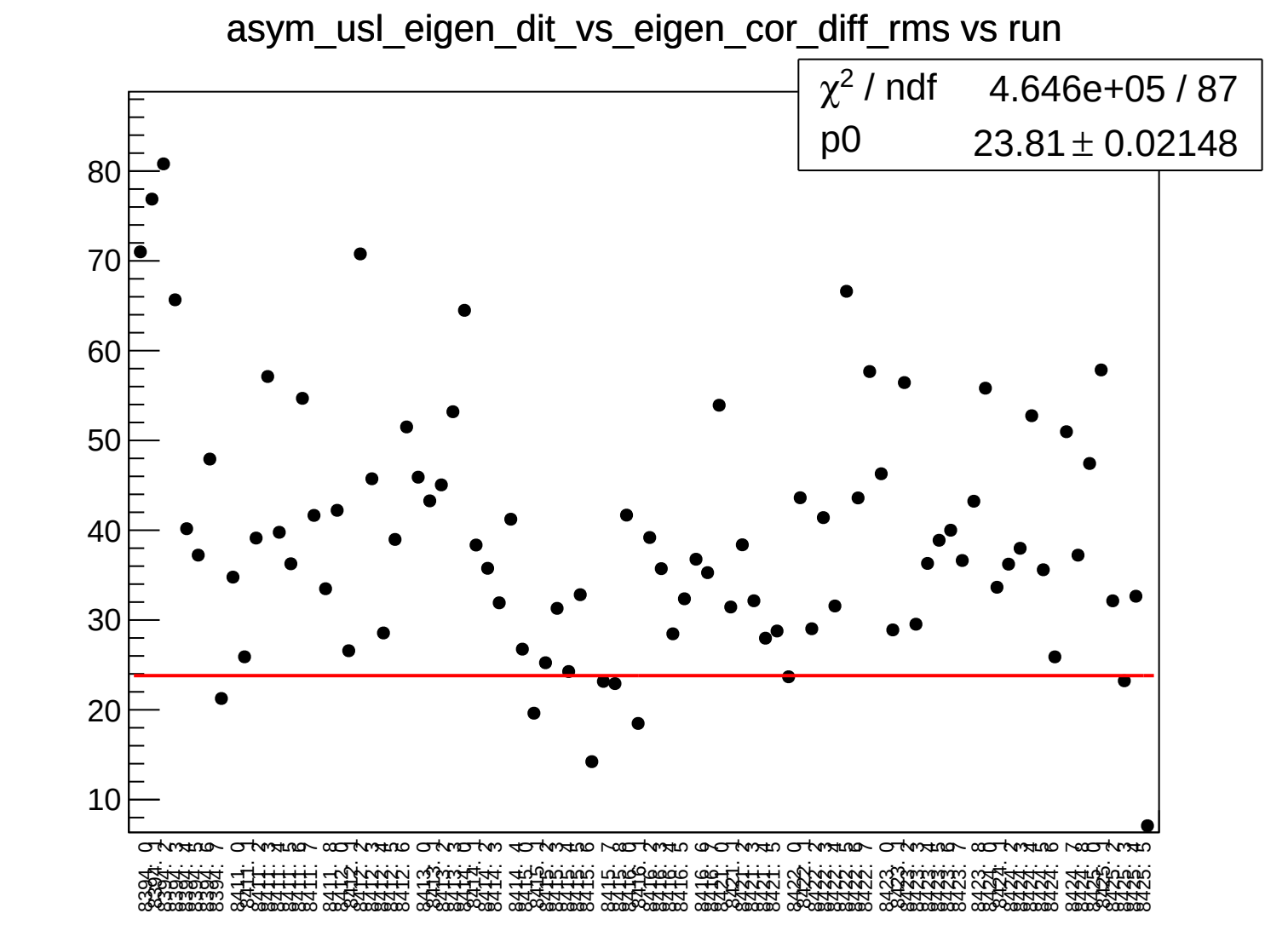


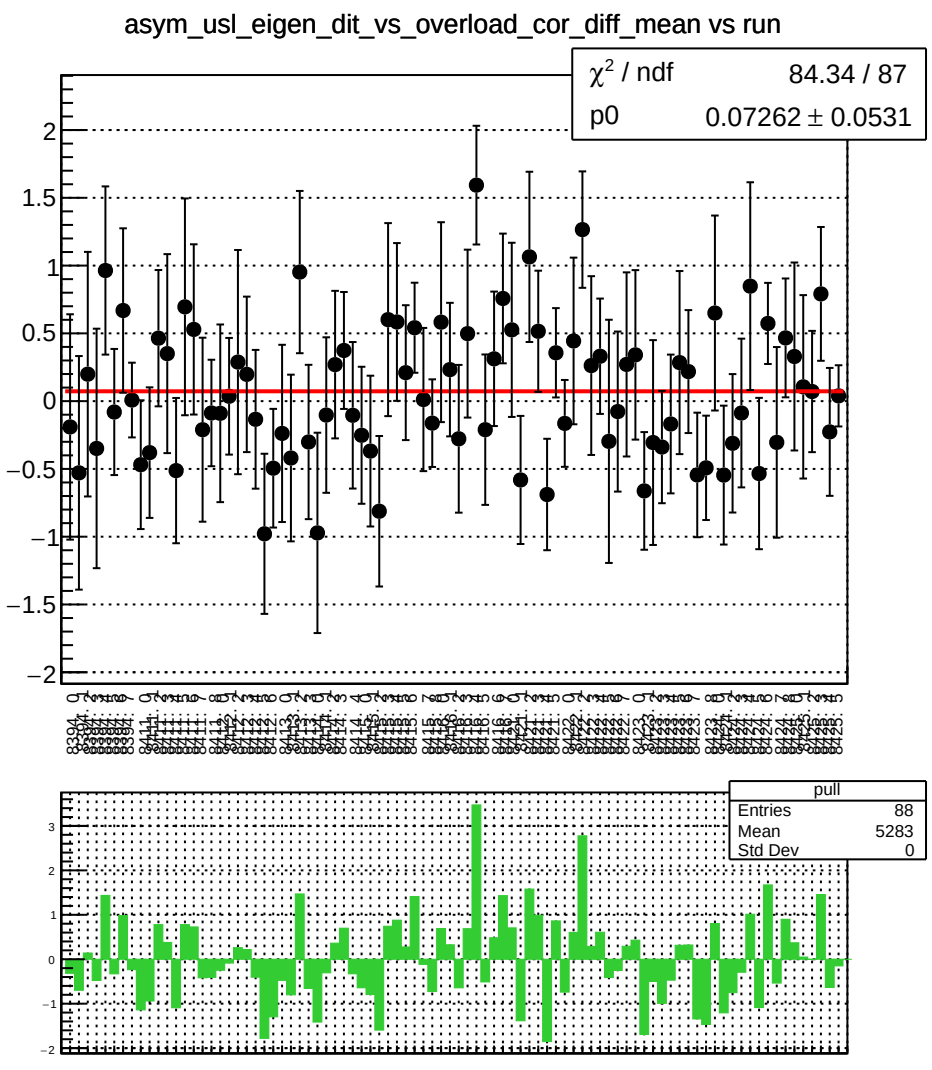

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.44 / 87
p0 −0.007388 ± 0.03038
pull
Entries 88
Mean 68.53
Std Dev 20.41
pull1D
Entries 88
Mean −0.02996
Std Dev 0.9733

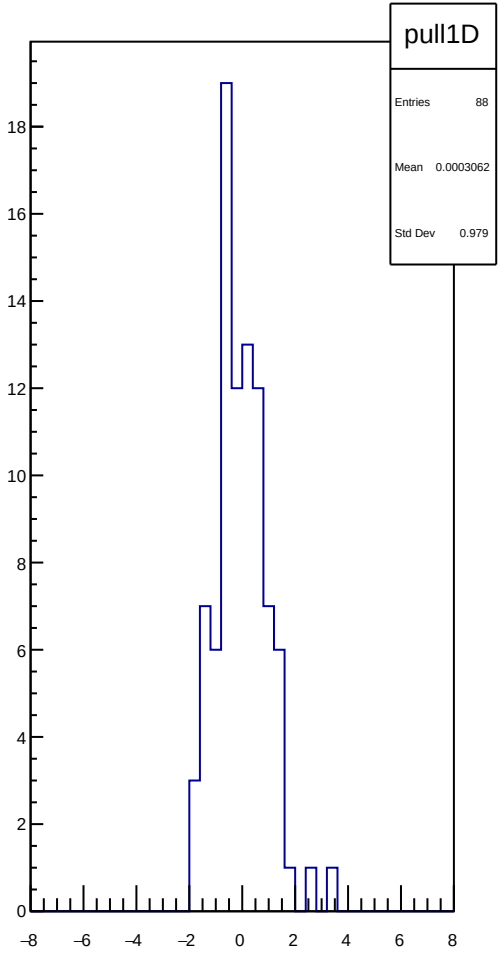

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.646e+05 / 87
p0 23.81 ± 0.02148
80
70
60
50
40
30
20
10

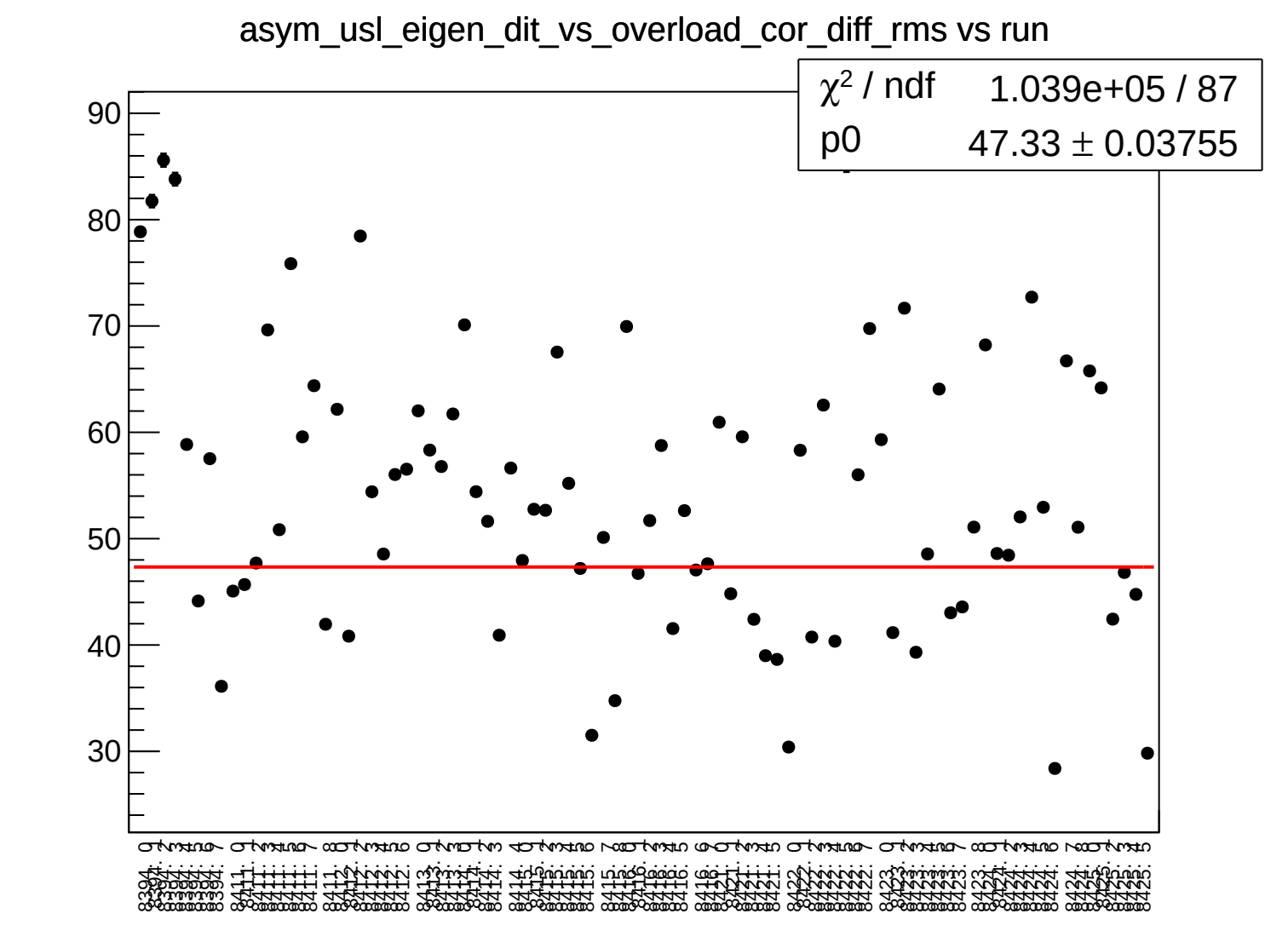

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.44 / 87
p0 −0.007388 ± 0.03038
pull
Entries 88
Mean 68.53
Std Dev 20.41

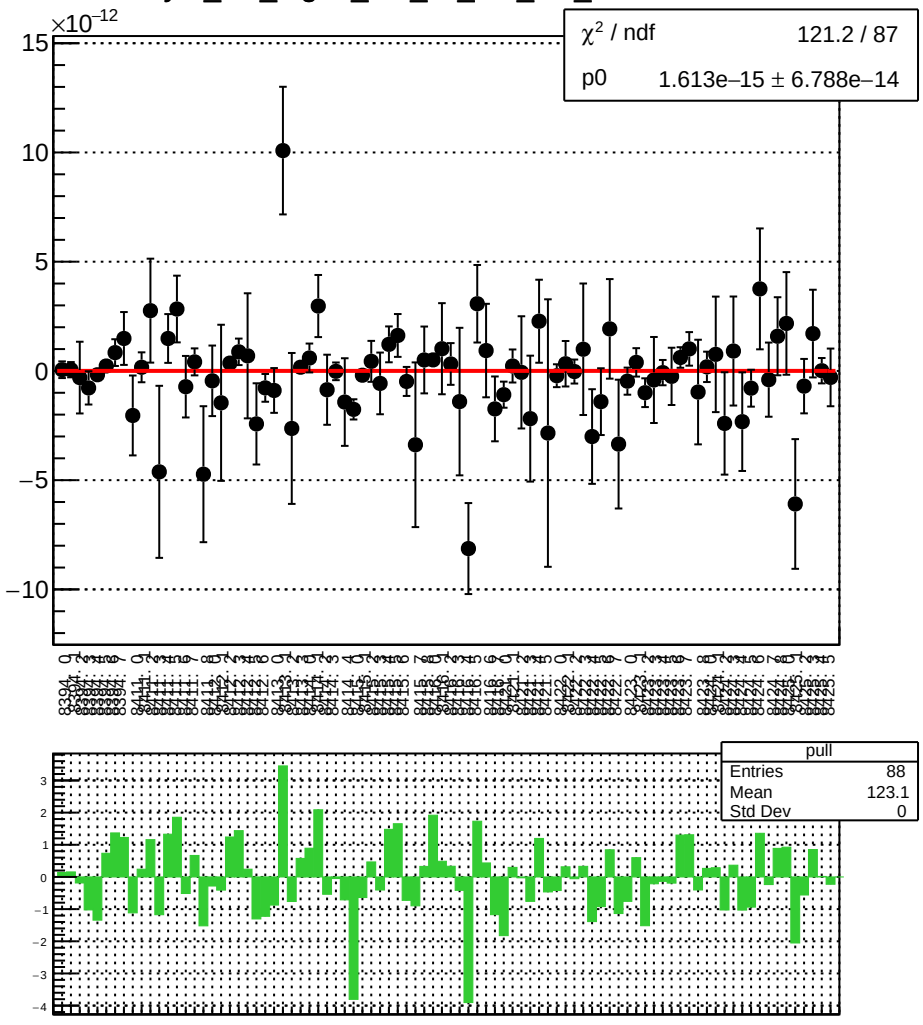

pull1D
Entries 88
Mean −0.02996
Std Dev 0.9733

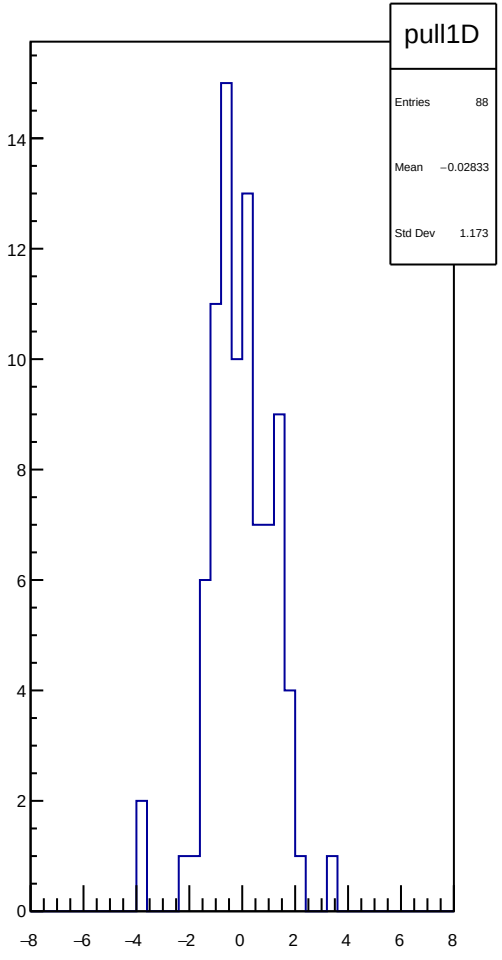

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 4.646e+05 / 87
p0 23.81 ± 0.02148
80
70
60
50
40
30
20
10

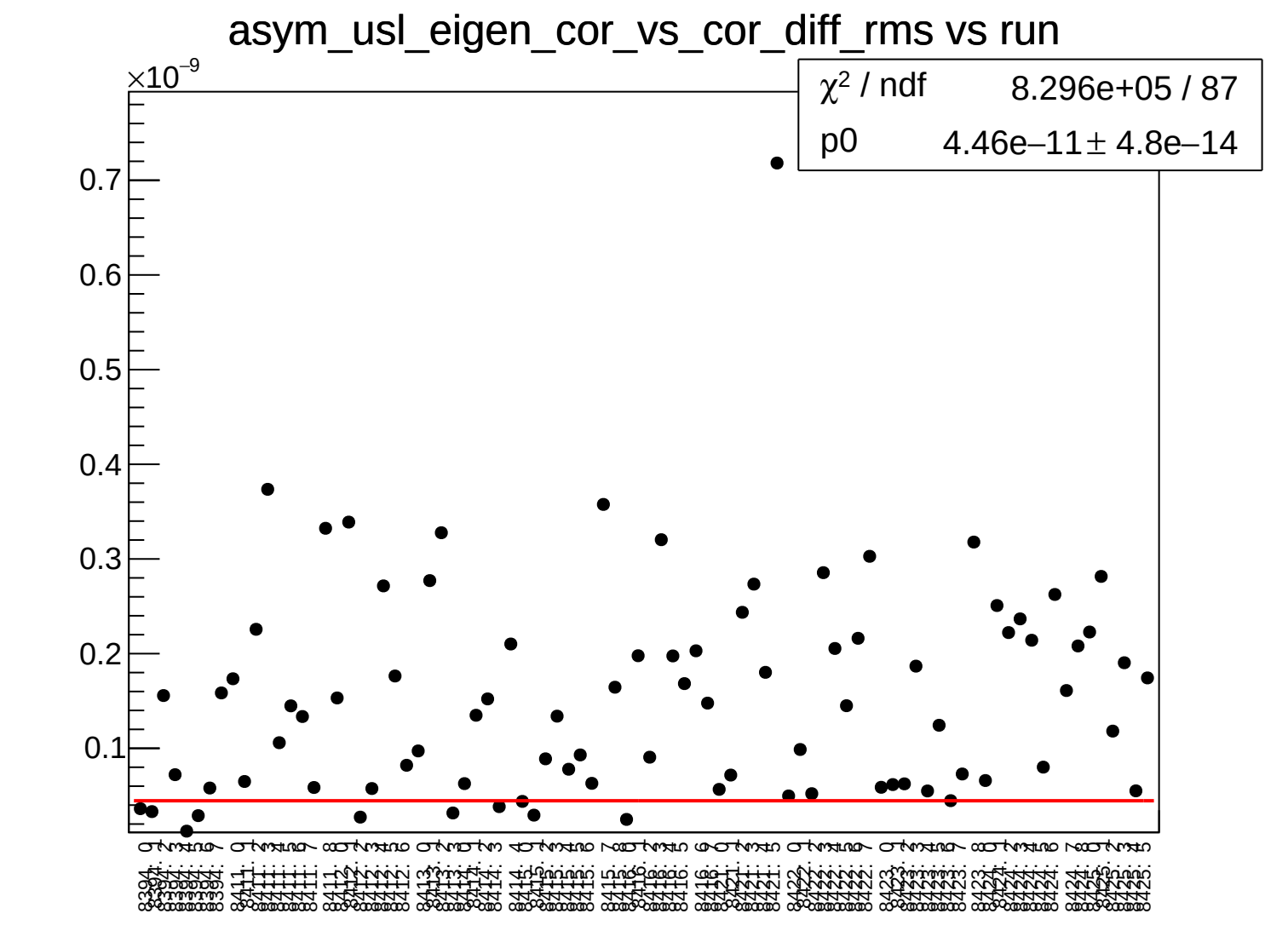

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 84.34 / 87
p0 0.07262 ± 0.0531
pull
Entries 88
Mean 5283
Std Dev 0

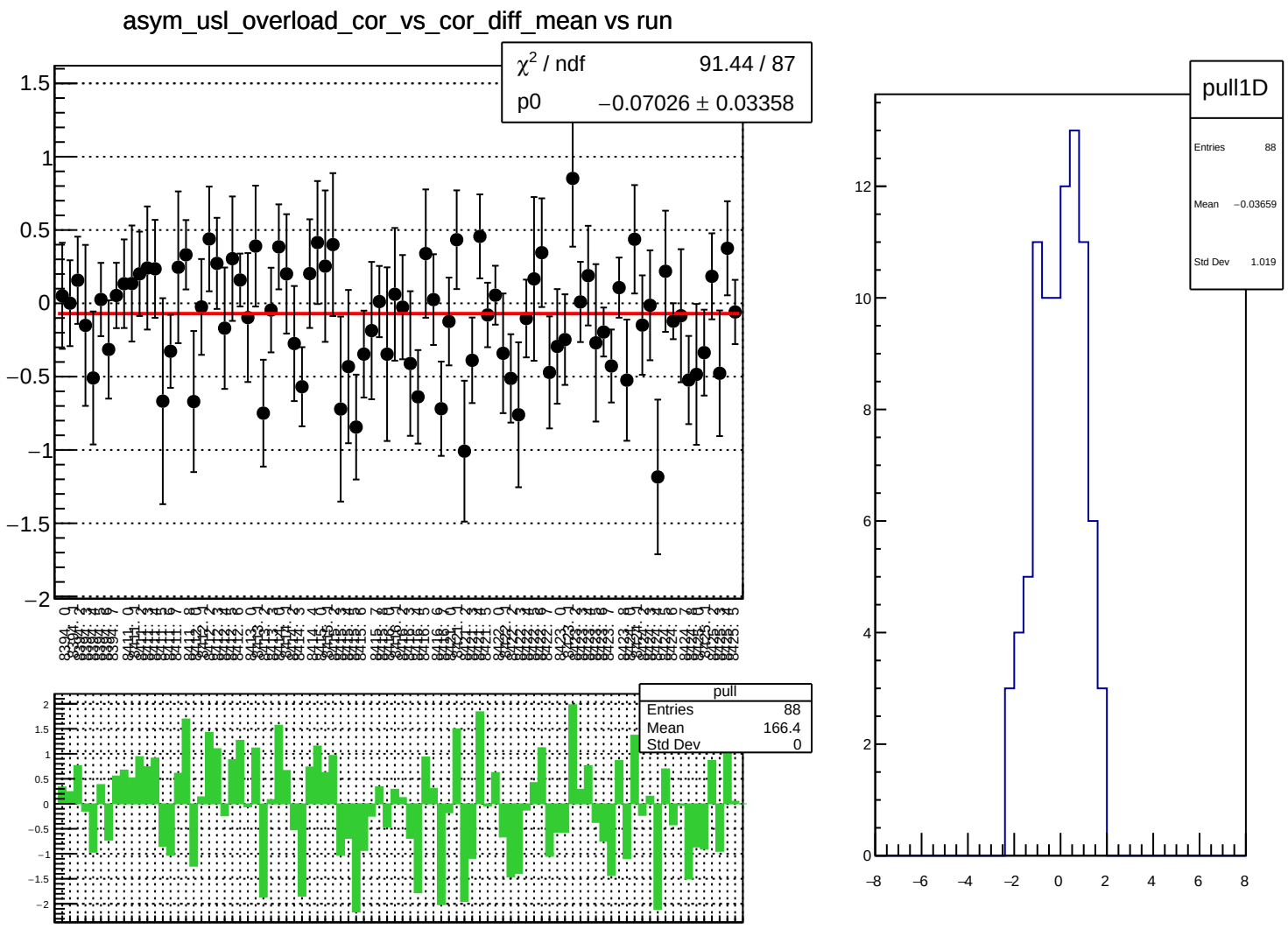

pull1D
Entries 88
Mean 0.0003062
Std Dev 0.979

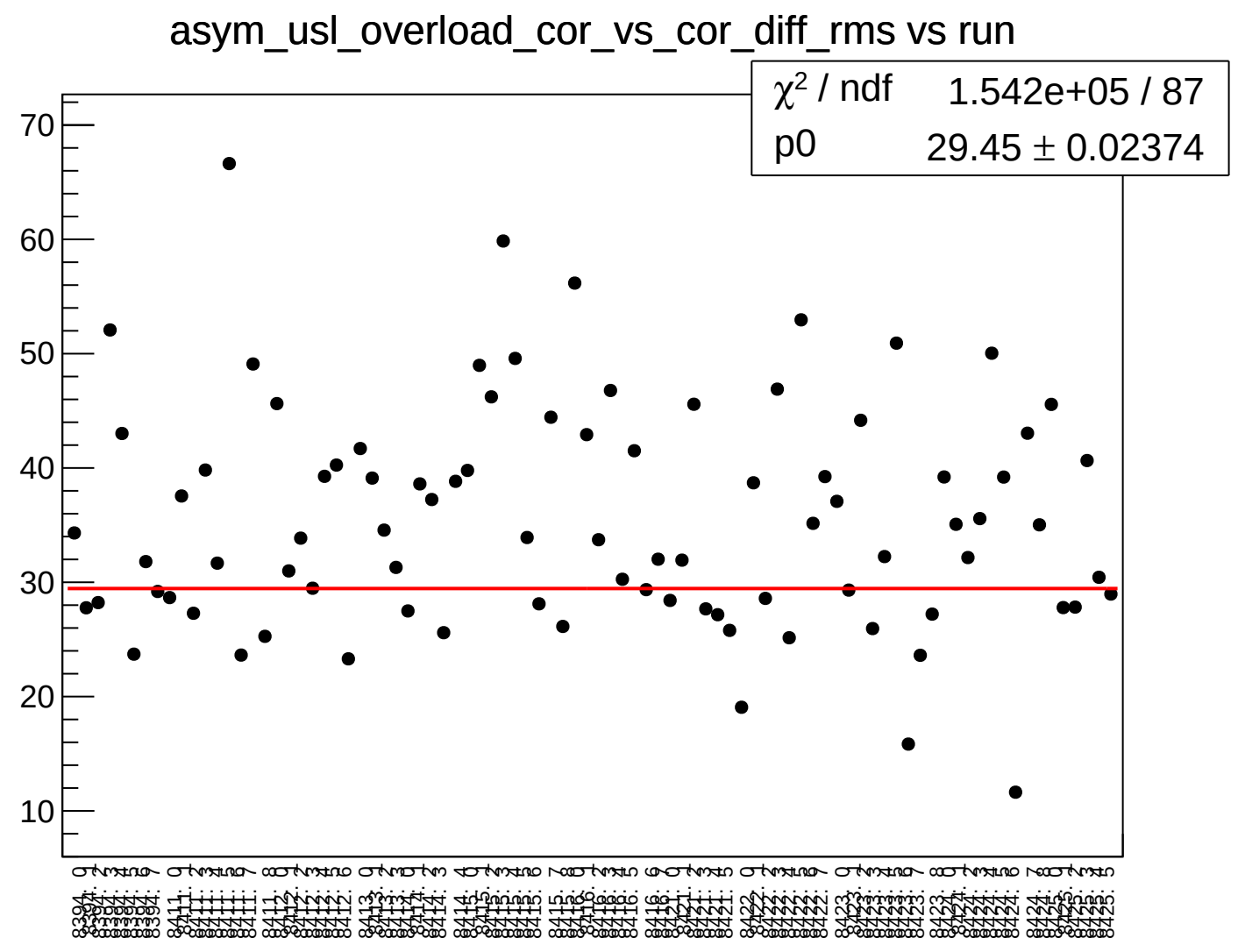

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.039e+05 / 87
p0 47.33 ± 0.03755
90
80
70
60
50
40
30

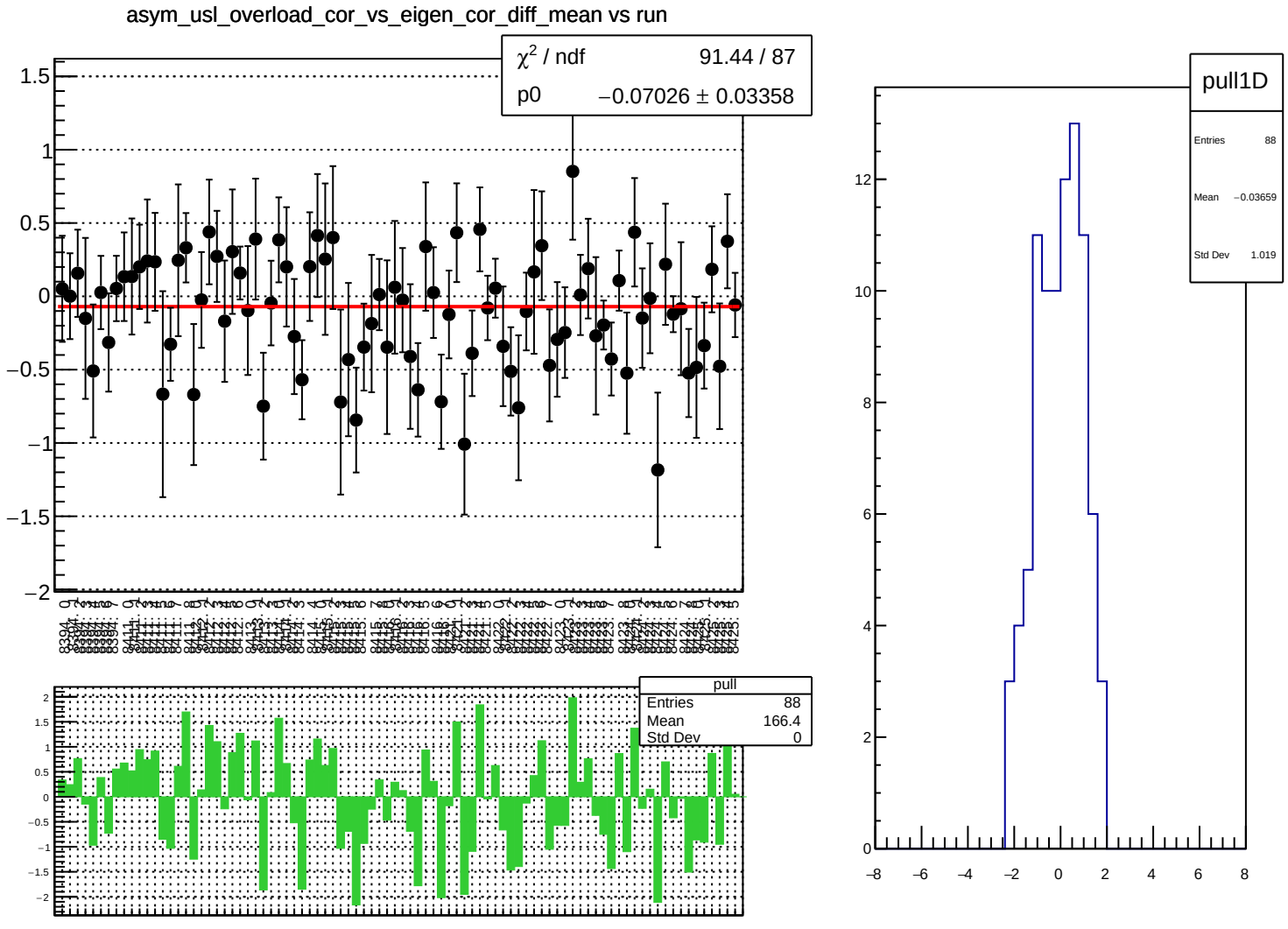

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 121.2 / 87
p0 1.613e−15 ± 6.788e−14
pull
Entries 88
Mean 123.1
Std Dev 0

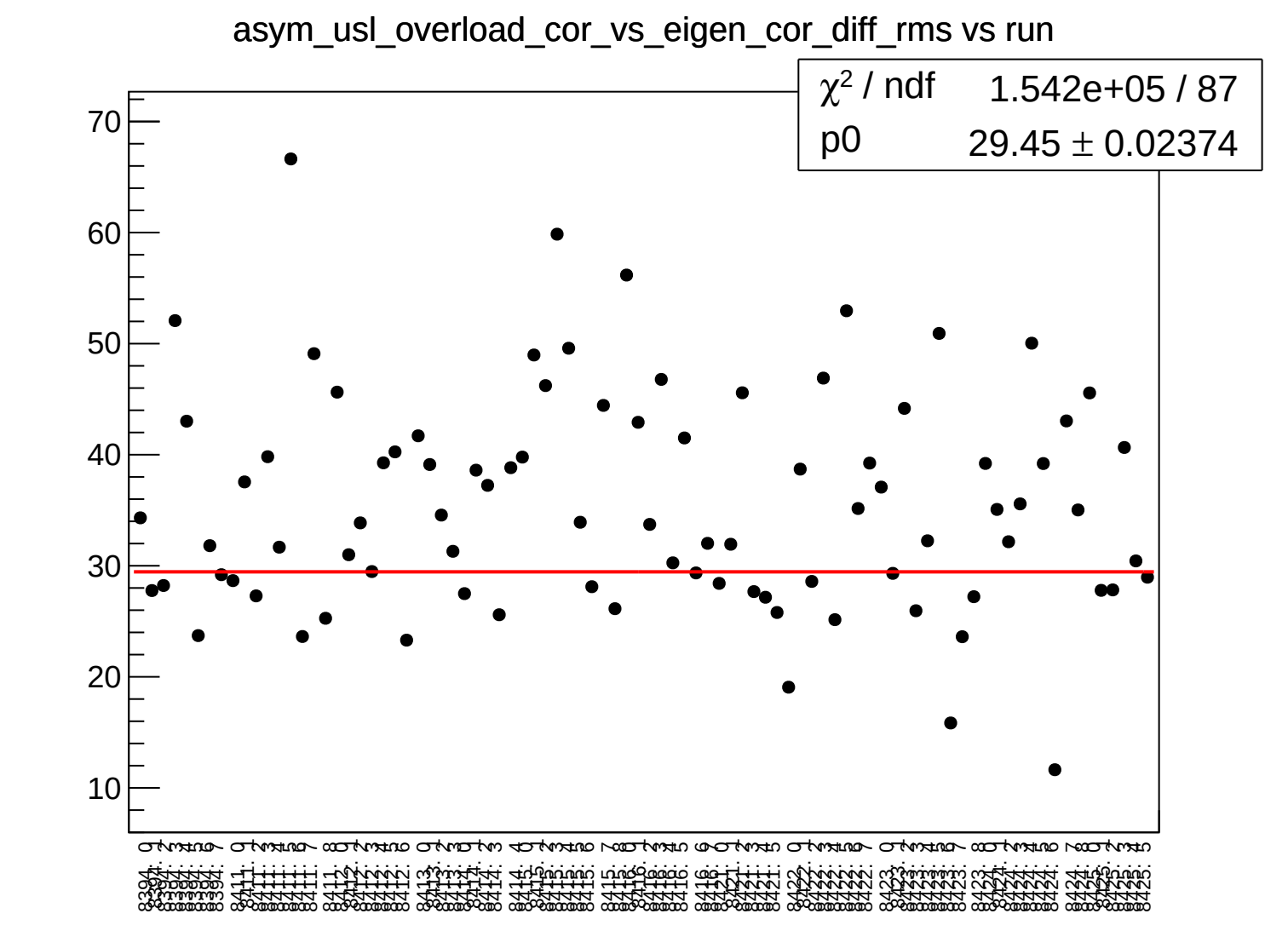

pull1D
Entries 88
Mean −0.02833
Std Dev 1.173

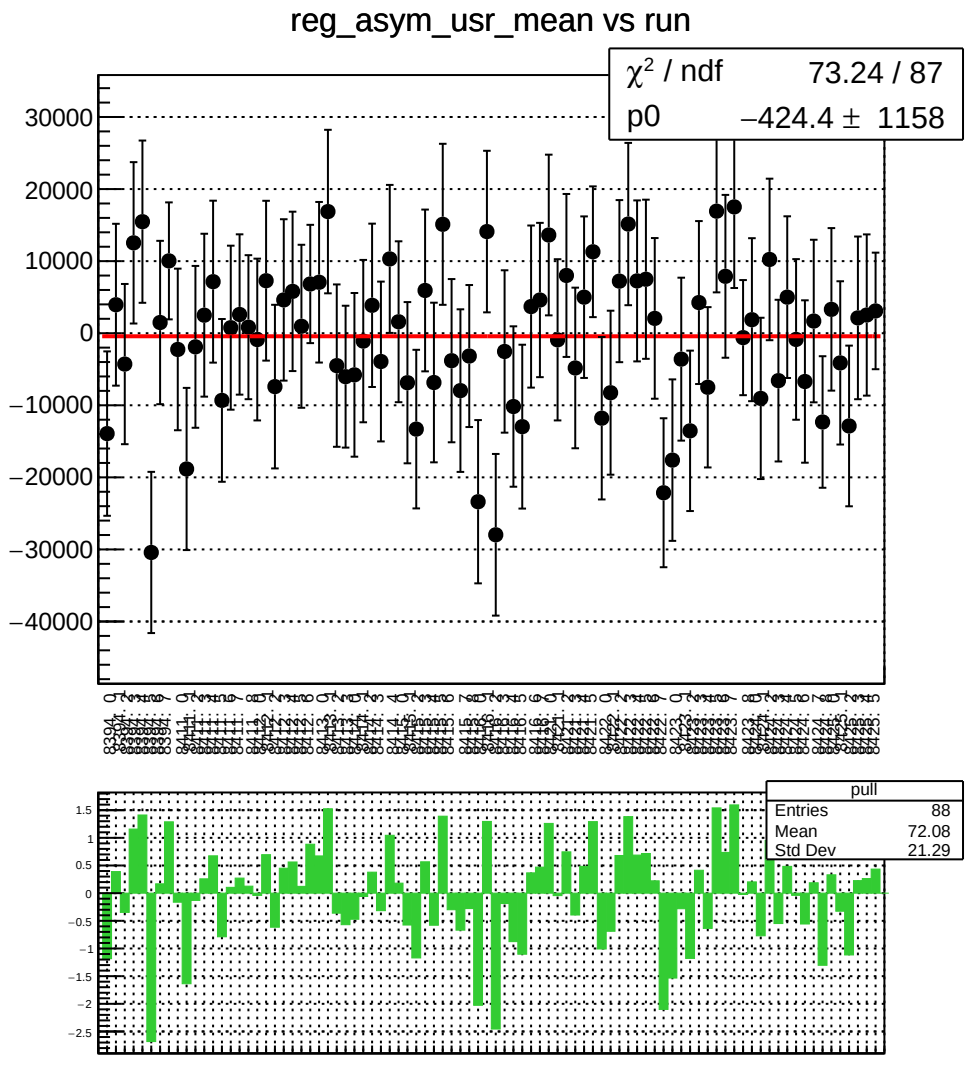

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.296e+05 / 87
p0 4.46e−11 ± 4.8e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

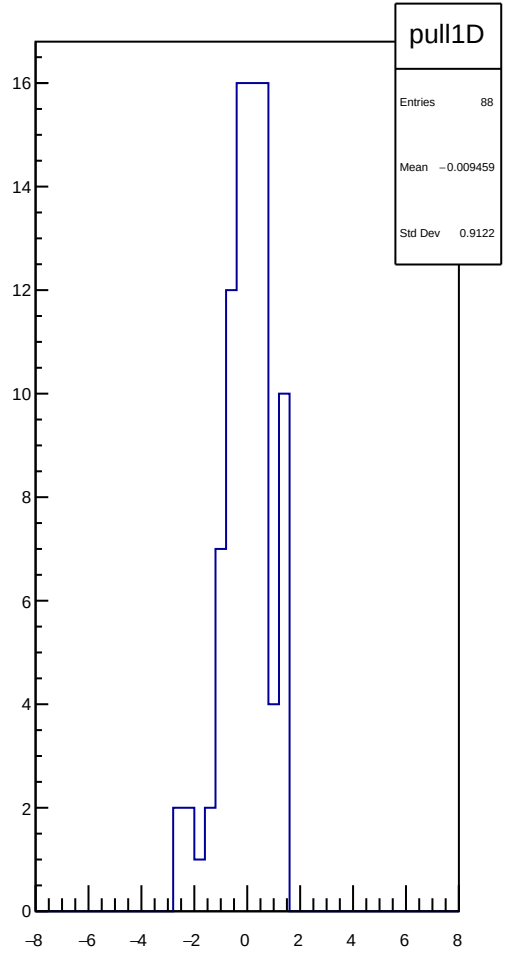

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 91.44 / 87
p0 −0.07026 ± 0.03358
pull
Entries 88
Mean 166.4
Std Dev 0
pull1D
Entries 88
Mean −0.03659
Std Dev 1.019

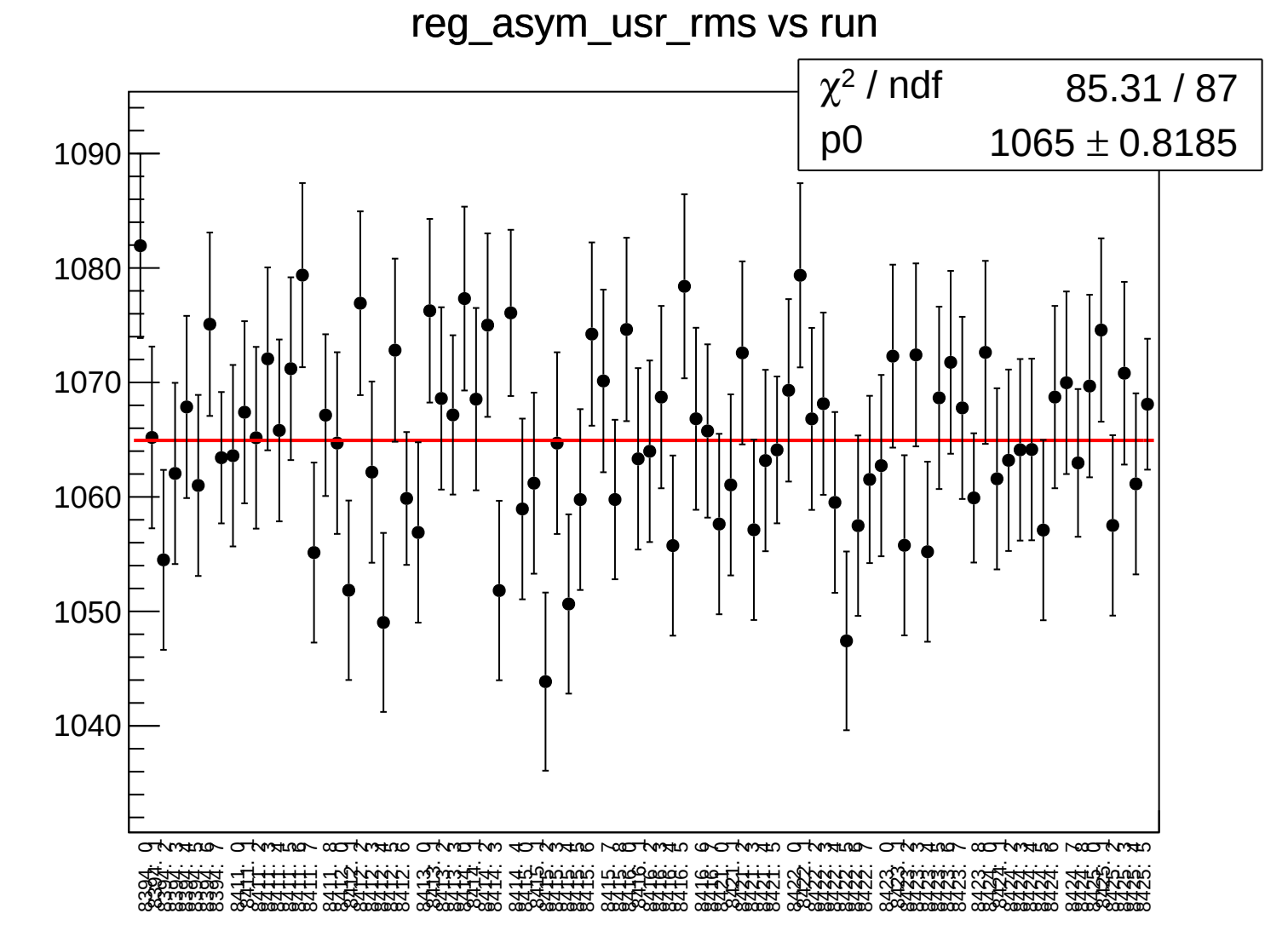

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.542e+05 / 87
p0 29.45 ± 0.02374
70
60
50
40
30
20
10

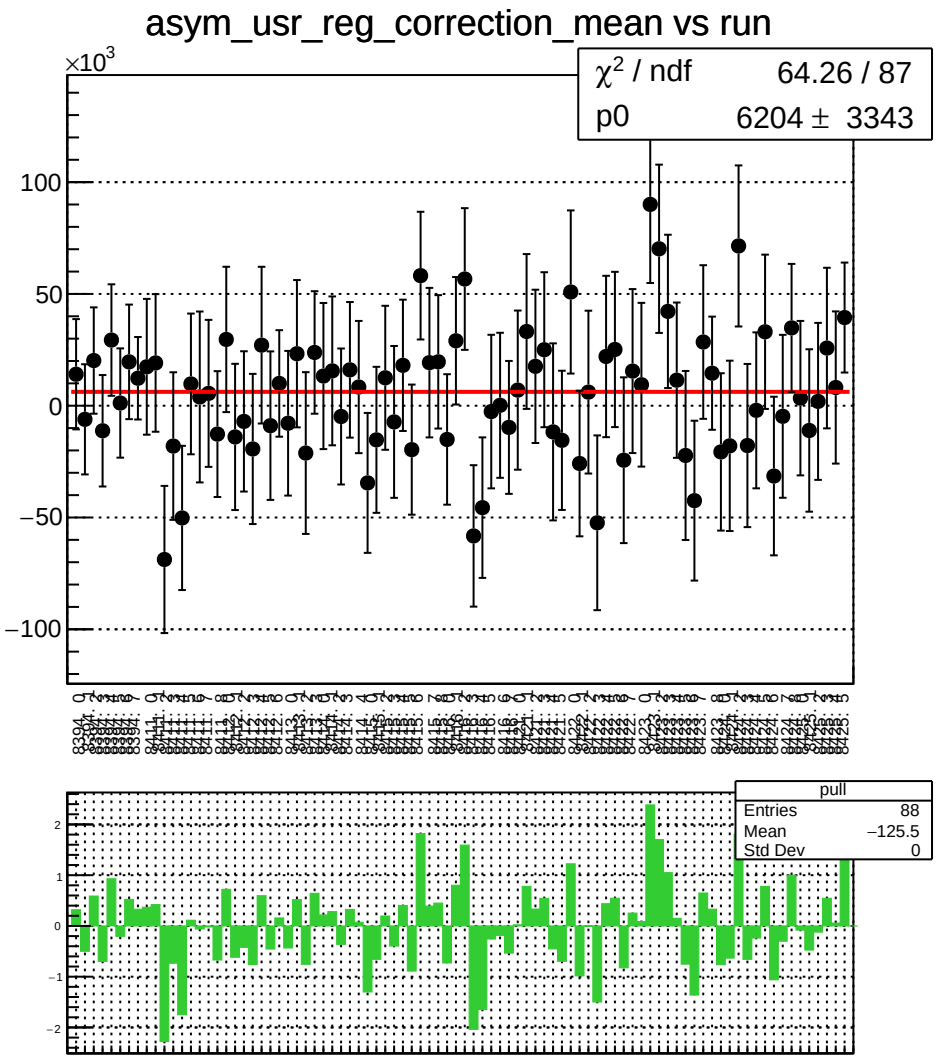

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.44 / 87
p0 −0.07026 ± 0.03358
pull
Entries 88
Mean 166.4
Std Dev 0
pull1D
Entries 88
Mean −0.03659
Std Dev 1.019

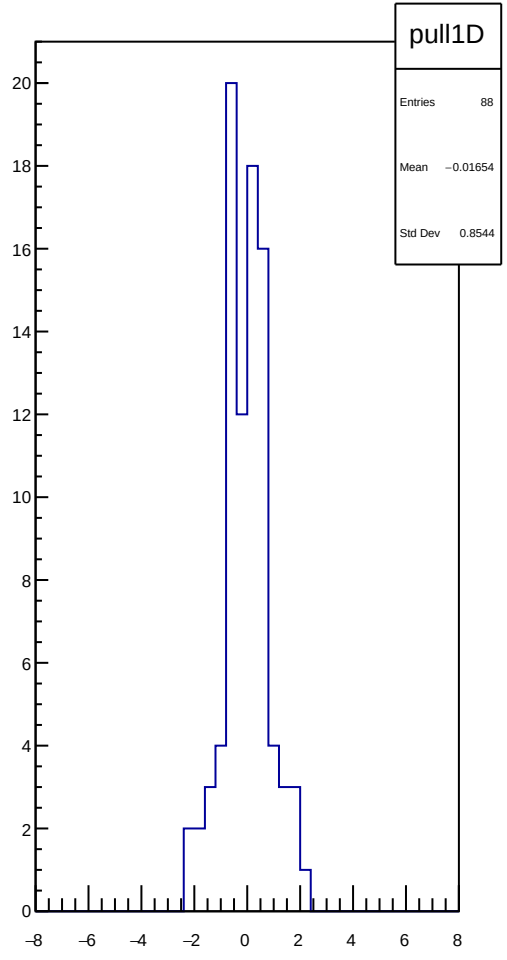

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.542e+05 / 87
p0 29.45 ± 0.02374
70
60
50
40
30
20
10

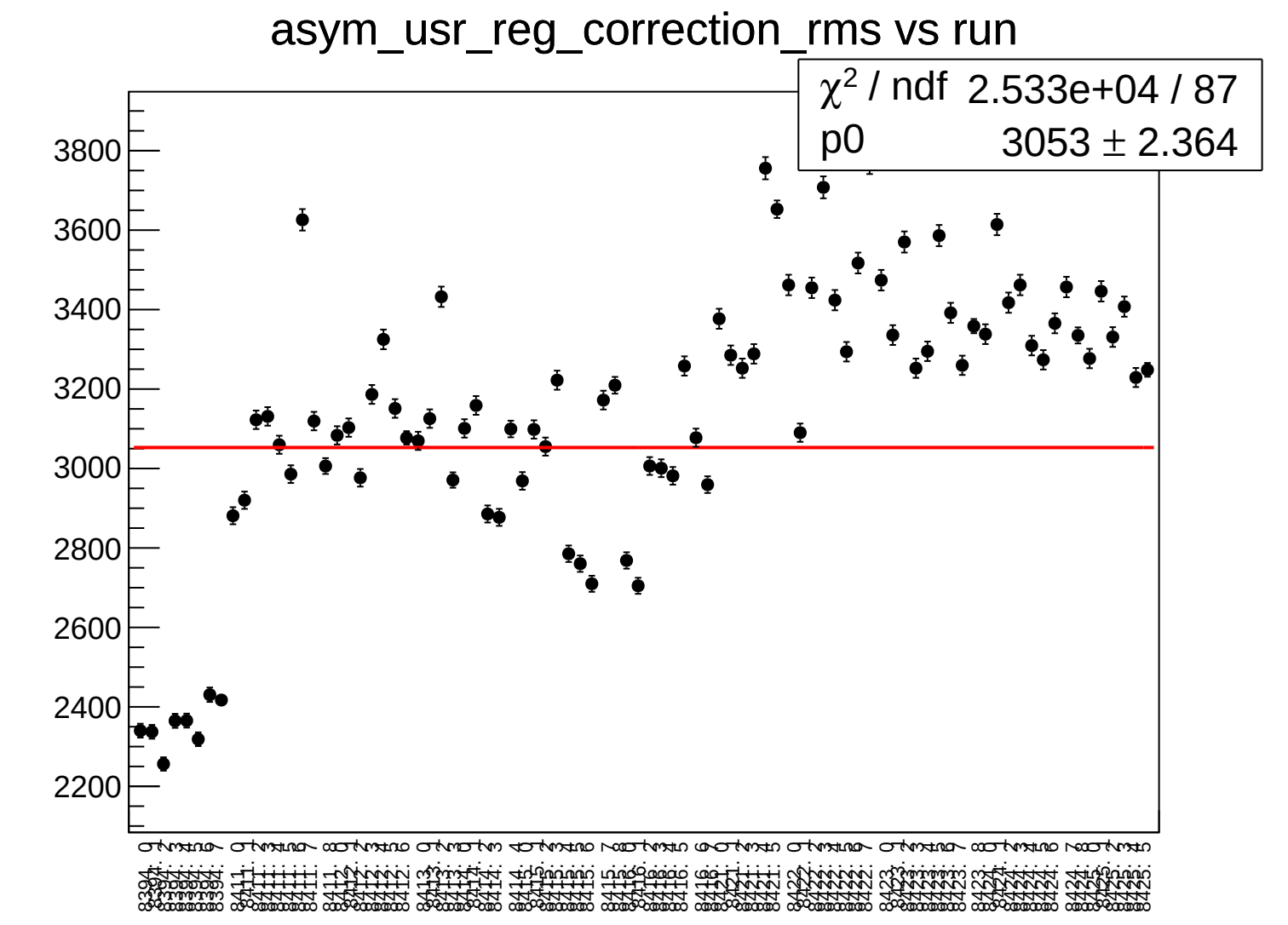

reg_asym_usr_mean vs run
χ² / ndf 73.24 / 87
p0 −424.4 ± 1158
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 72.08
Std Dev 21.29
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

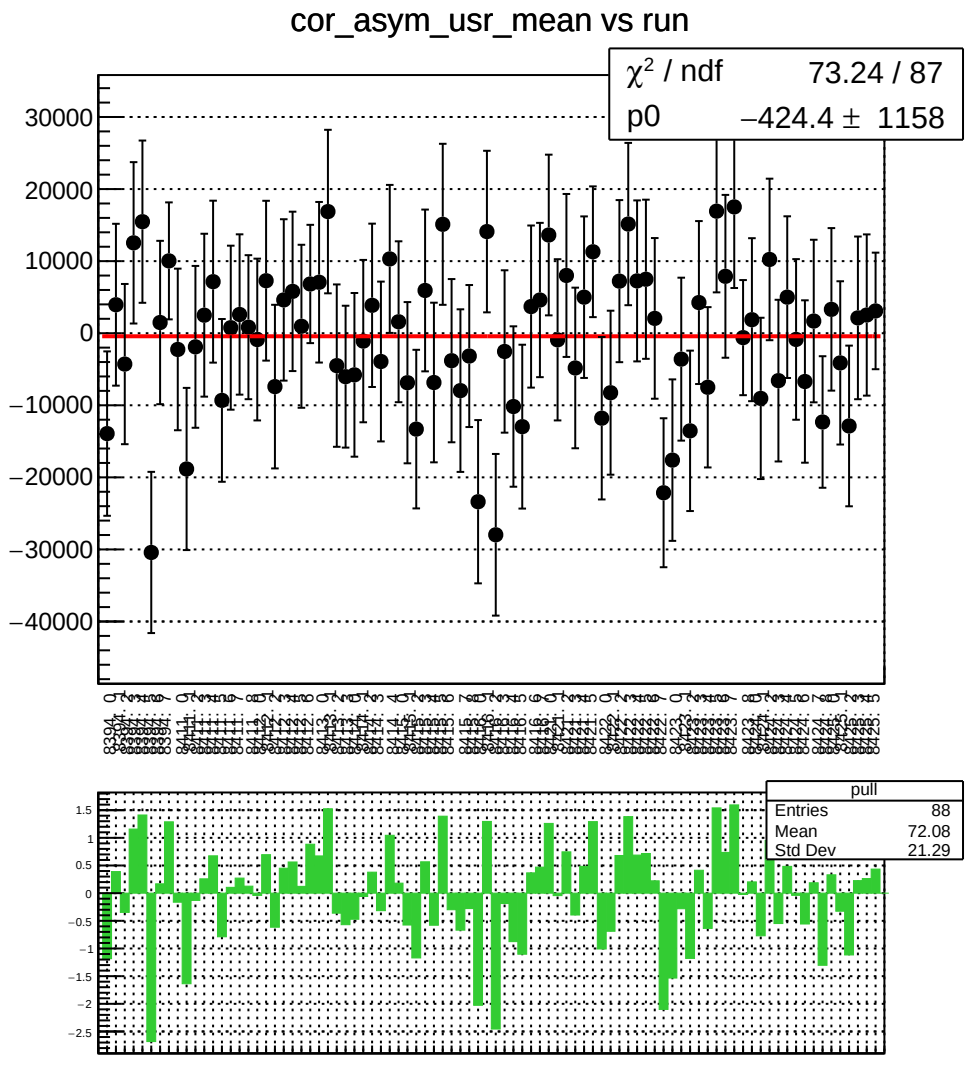

pull1D
Entries 88
Mean −0.009459
Std Dev 0.9122
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

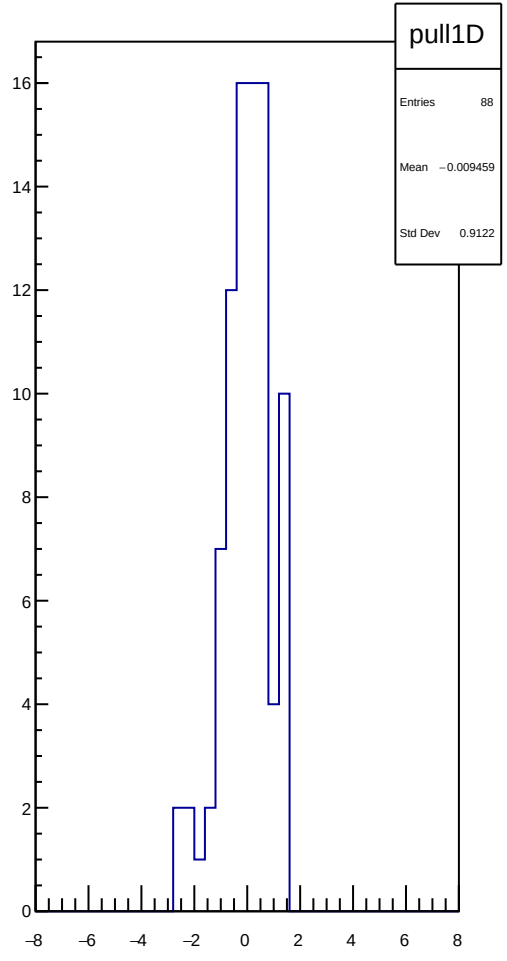

reg_asym_usr_rms vs run
χ^2 / ndf 85.31 / 87
p0 1065 ± 0.8185
1090
1080
1070
1060
1050
1040

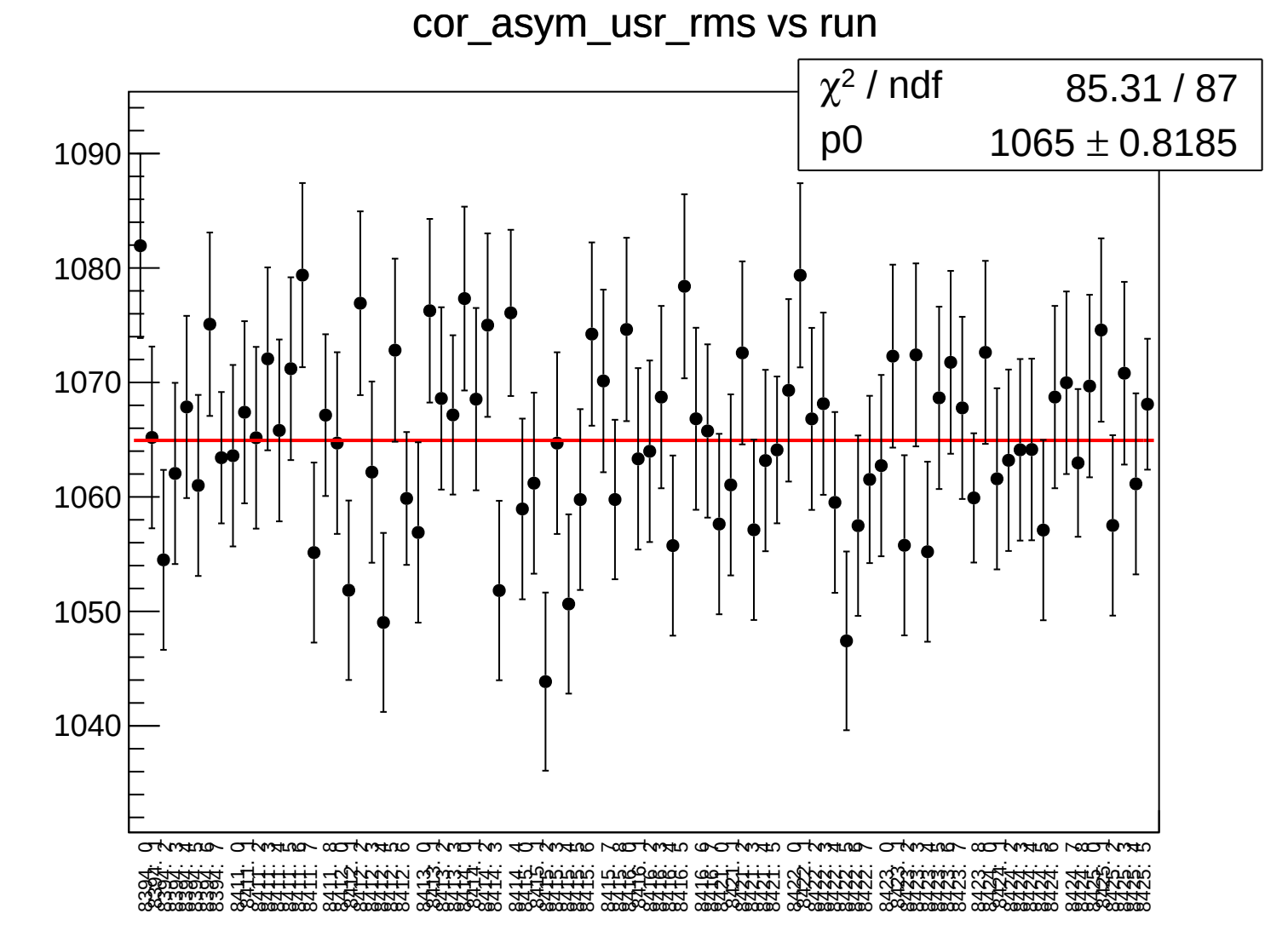

asym_usr_reg_correction_mean vs run
×10^3
χ² / ndf 64.26 / 87
p0 6204 ± 3343
100
50
0
−50
−100
pull
Entries 88
Mean −125.5
Std Dev 0
2
1
0
−1
−2

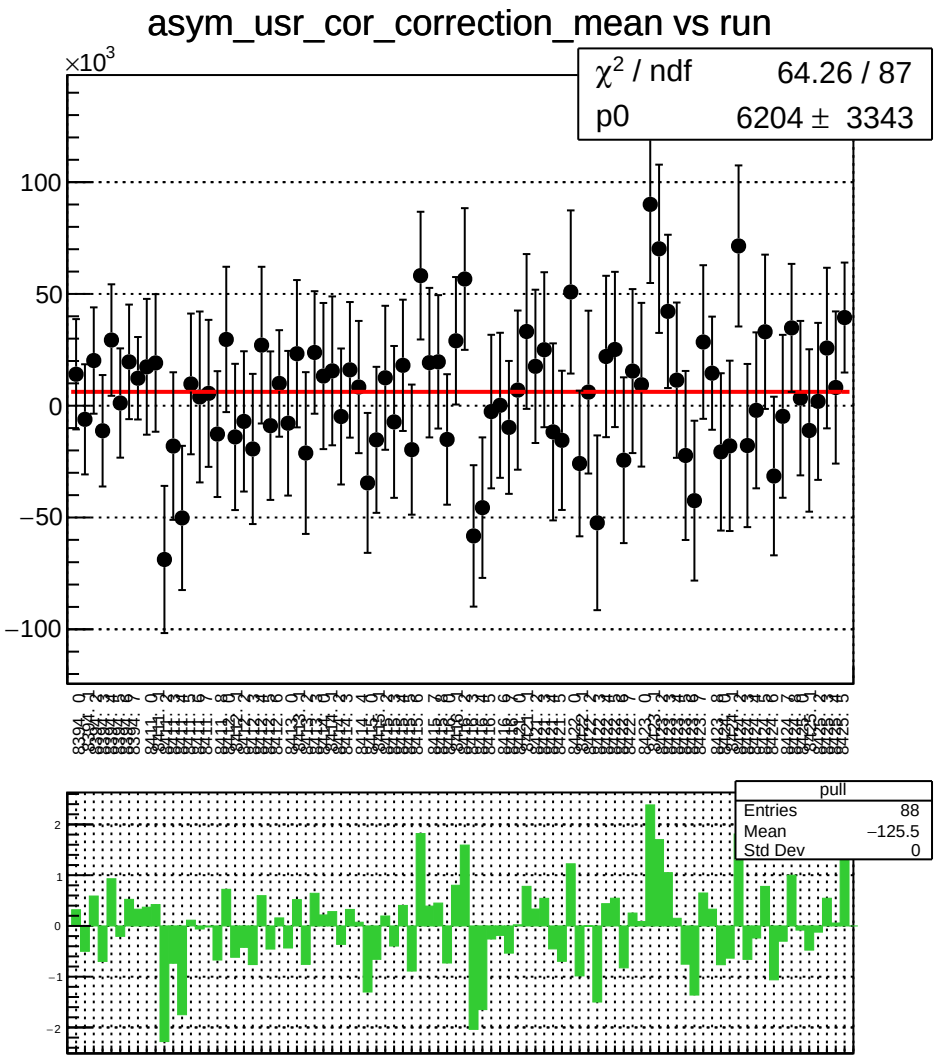

pull1D
Entries 88
Mean −0.01654
Std Dev 0.8544
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

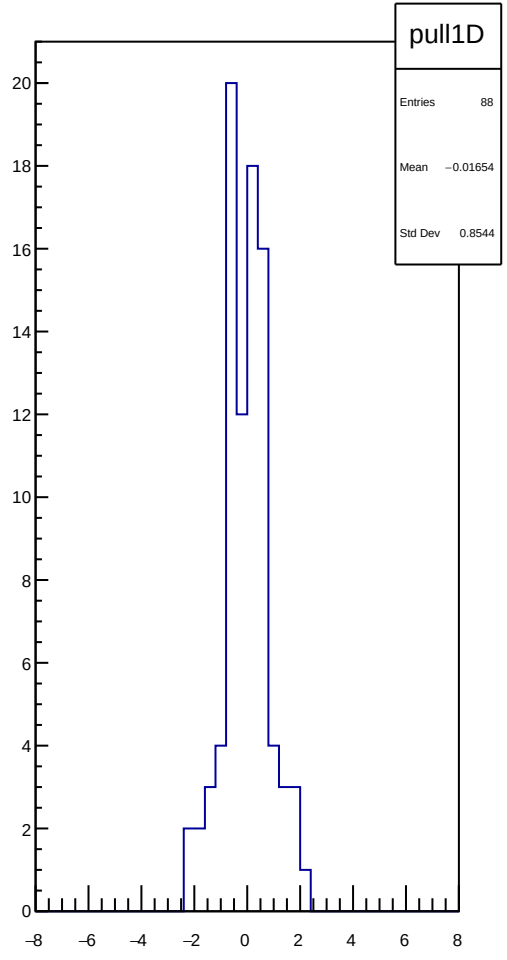

asym_usr_reg_correction_rms vs run
χ² / ndf 2.533e+04 / 87
p0 3053 ± 2.364
3800
3600
3400
3200
3000
2800
2600
2400
2200

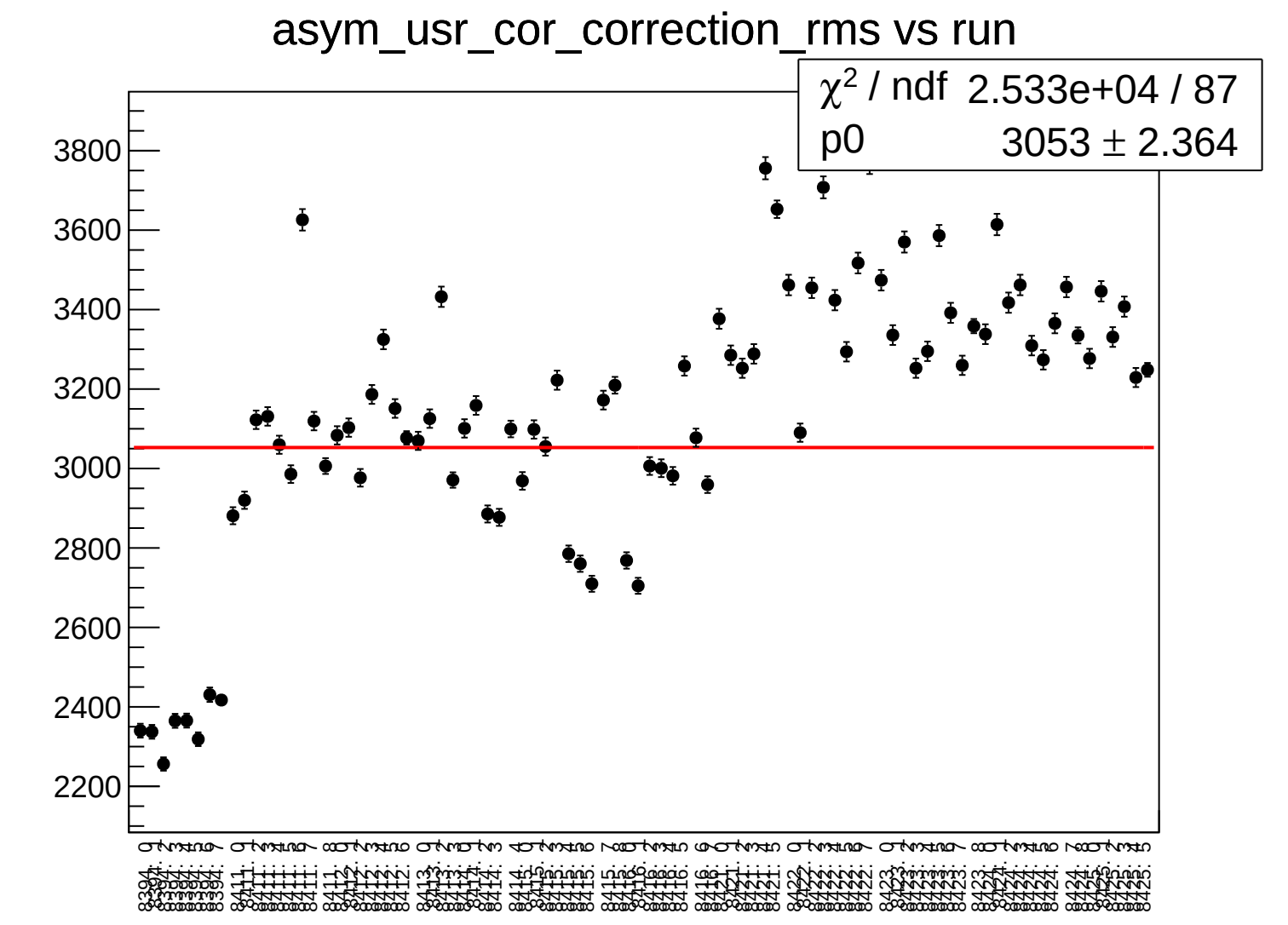

cor_asym_usr_mean vs run
χ² / ndf 73.24 / 87
p0 −424.4 ± 1158
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 72.08
Std Dev 21.29
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

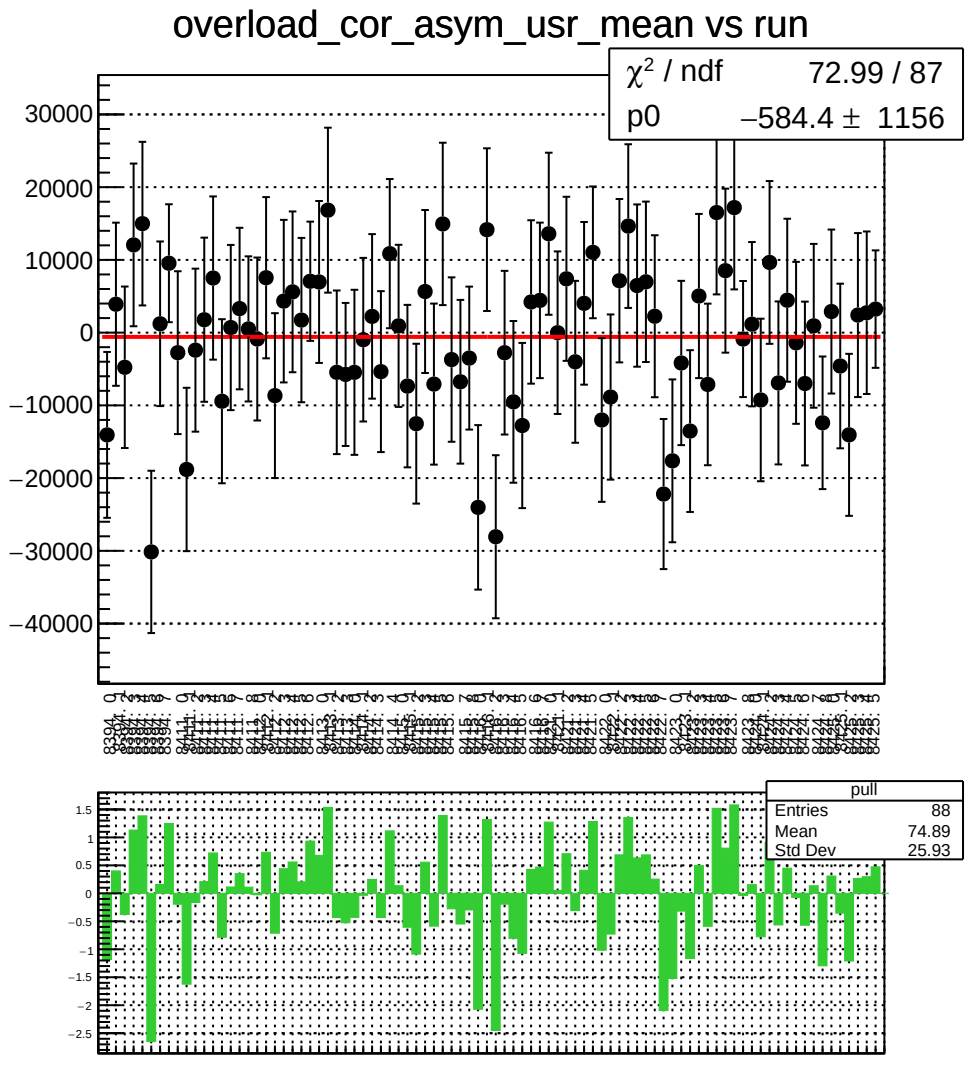

pull1D
Entries 88
Mean −0.009459
Std Dev 0.9122
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

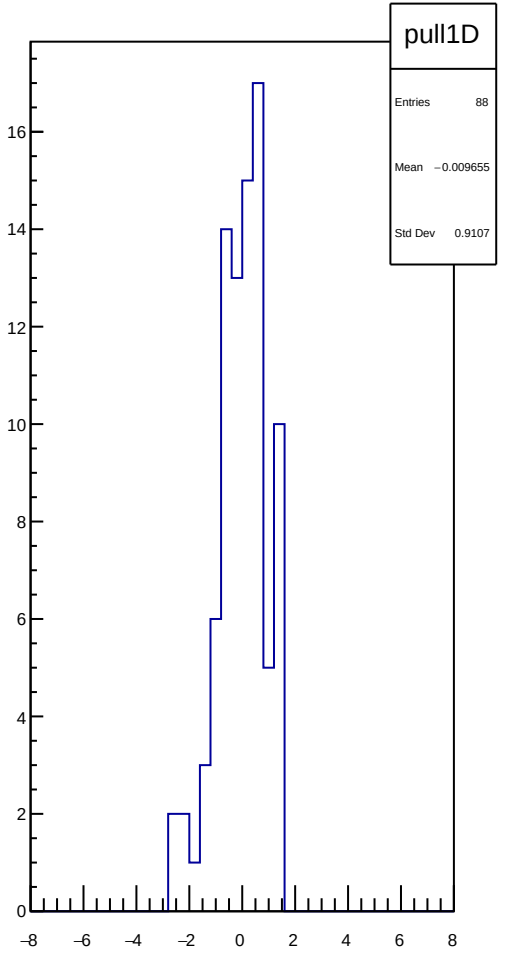

cor_asym_usr_rms vs run
χ^2 / ndf 85.31 / 87
p0 1065 ± 0.8185
1090
1080
1070
1060
1050
1040

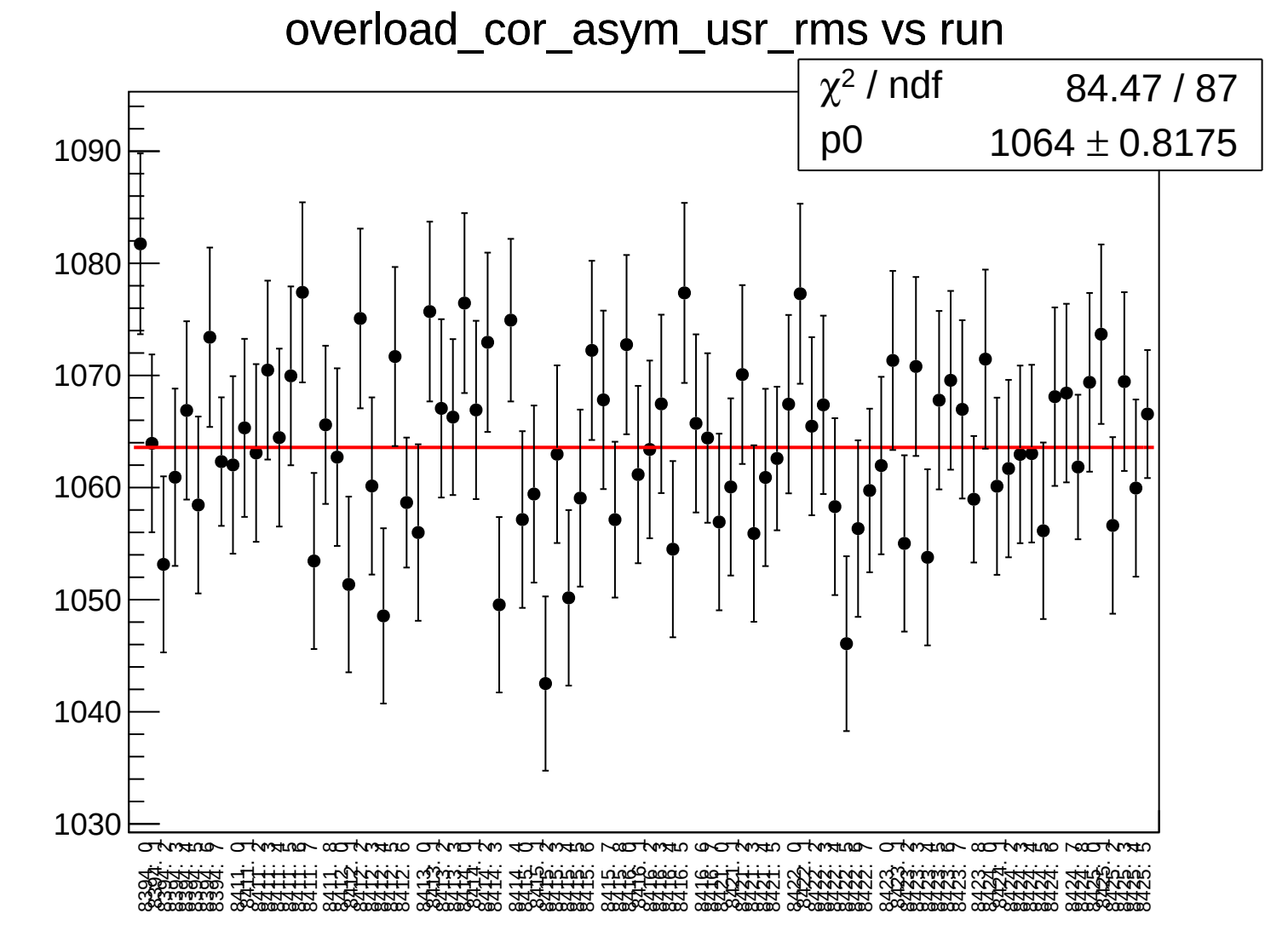

asym_usr_cor_correction_mean vs run
×10^3
χ² / ndf 64.26 / 87
p0 6204 ± 3343
100
50
0
−50
−100
pull
Entries 88
Mean −125.5
Std Dev 0
2
1
0
−1
−2

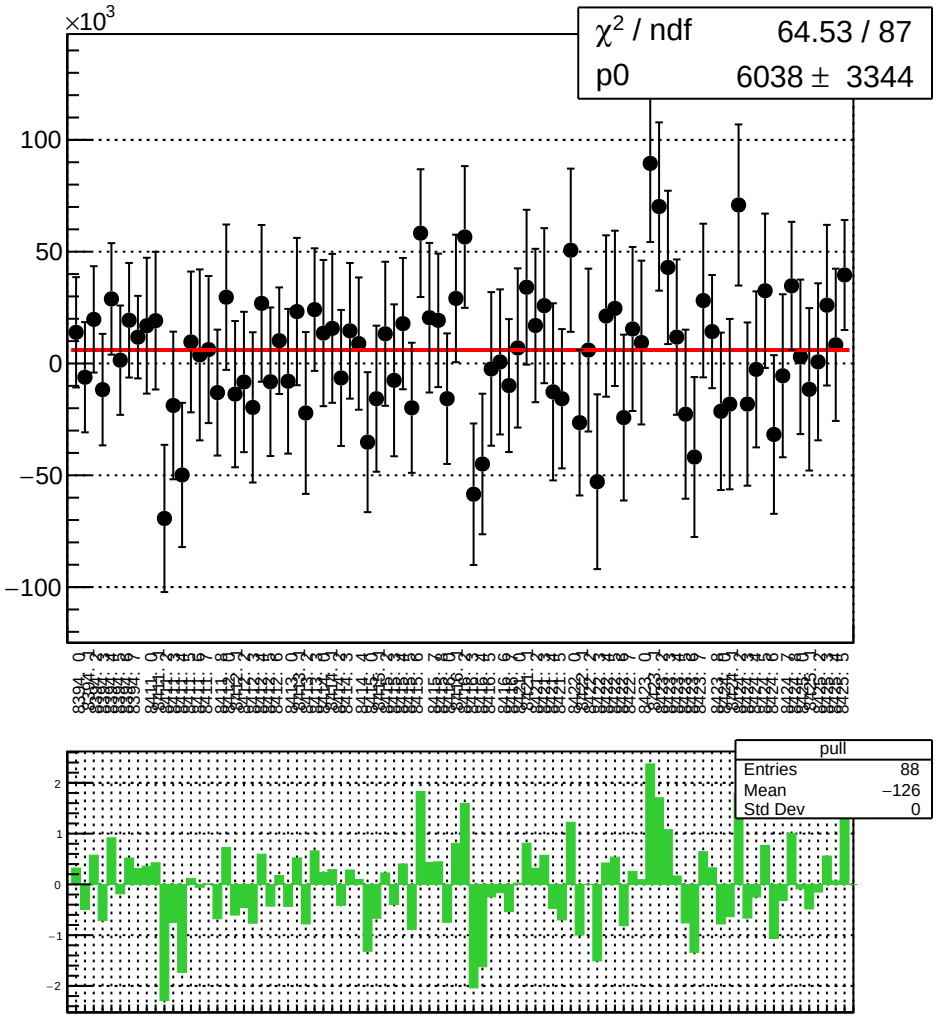

pull1D
Entries 88
Mean −0.01654
Std Dev 0.8544
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

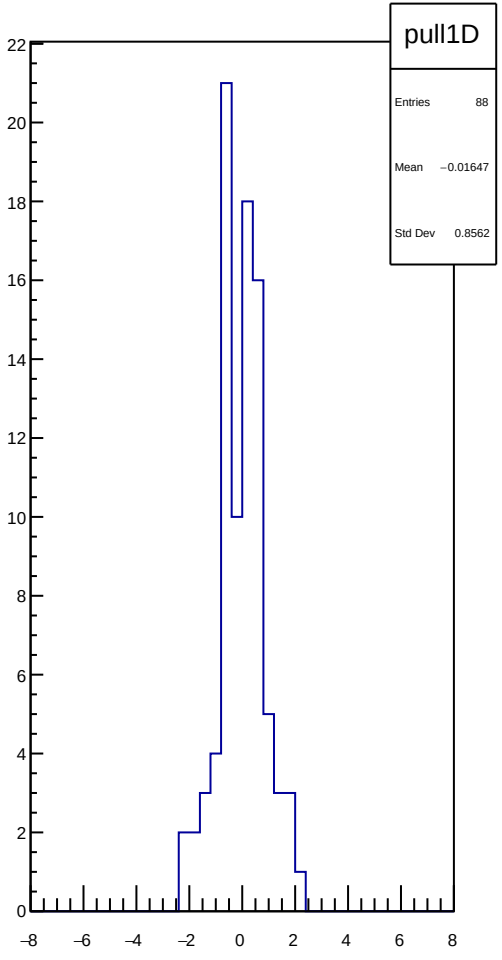

asym_usr_cor_correction_rms vs run
χ² / ndf 2.533e+04 / 87
p0 3053 ± 2.364
3800
3600
3400
3200
3000
2800
2600
2400
2200

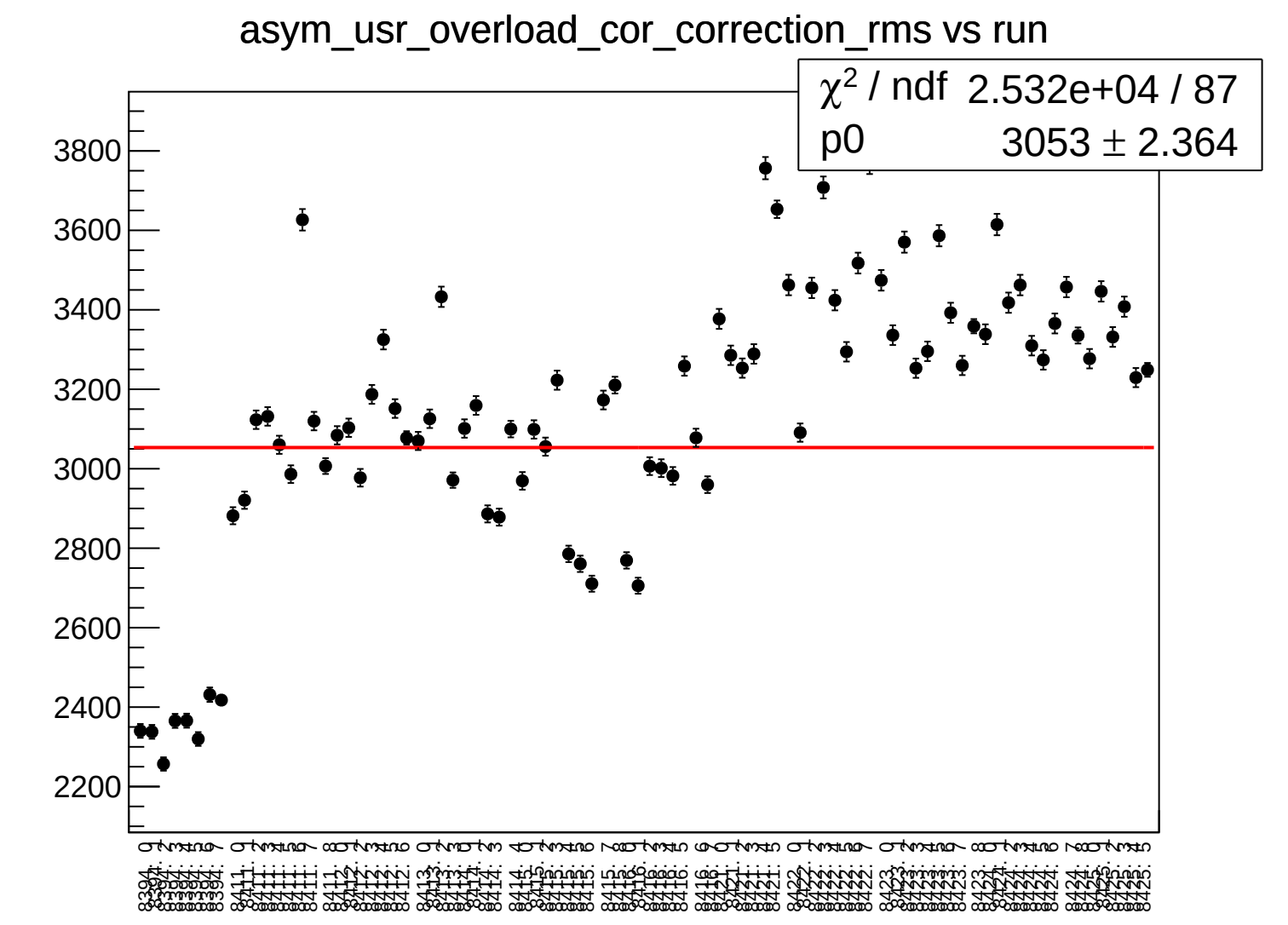

overload_cor_asym_usr_mean vs run
χ² / ndf 72.99 / 87
p0 −584.4 ± 1156
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 74.89
Std Dev 25.93
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

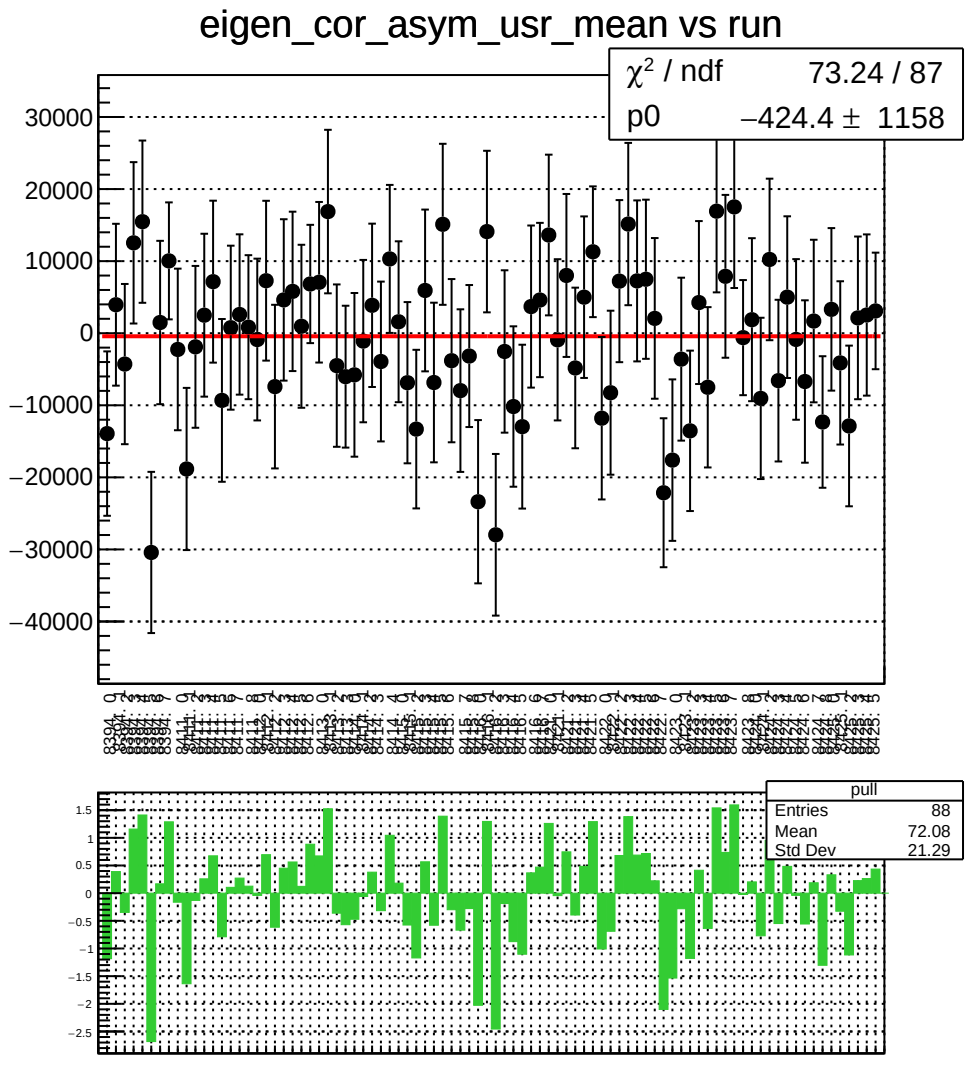

pull1D
Entries 88
Mean −0.009655
Std Dev 0.9107
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

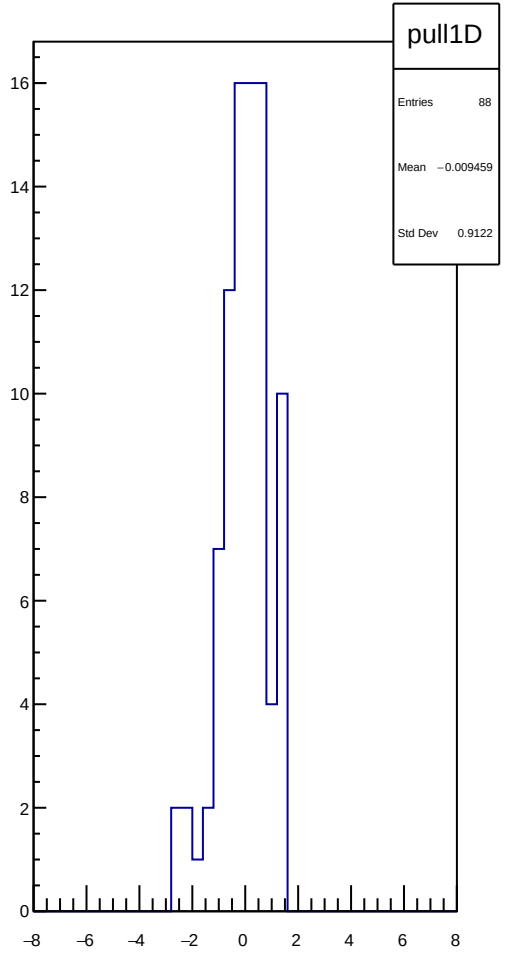

overload_cor_asym_usr_rms vs run
χ² / ndf 84.47 / 87
p0 1064 ± 0.8175
1090
1080
1070
1060
1050
1040
1030

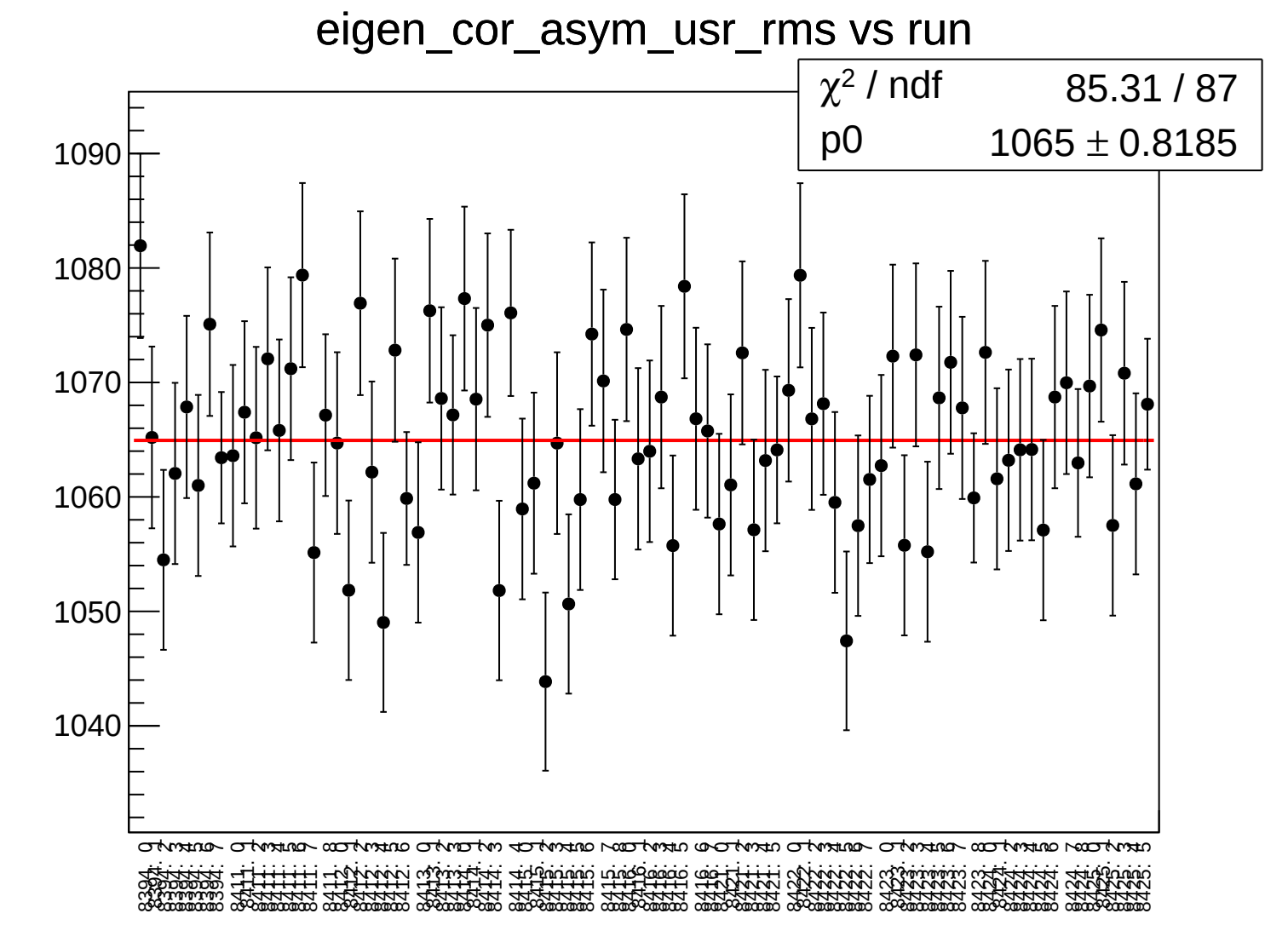

asym_usr_overload_cor_correction_mean vs run
×10^3
χ² / ndf 64.53 / 87
p0 6038 ± 3344
100
50
0
−50
−100
pull
Entries 88
Mean −126
Std Dev 0
2
1
0
−1
−2

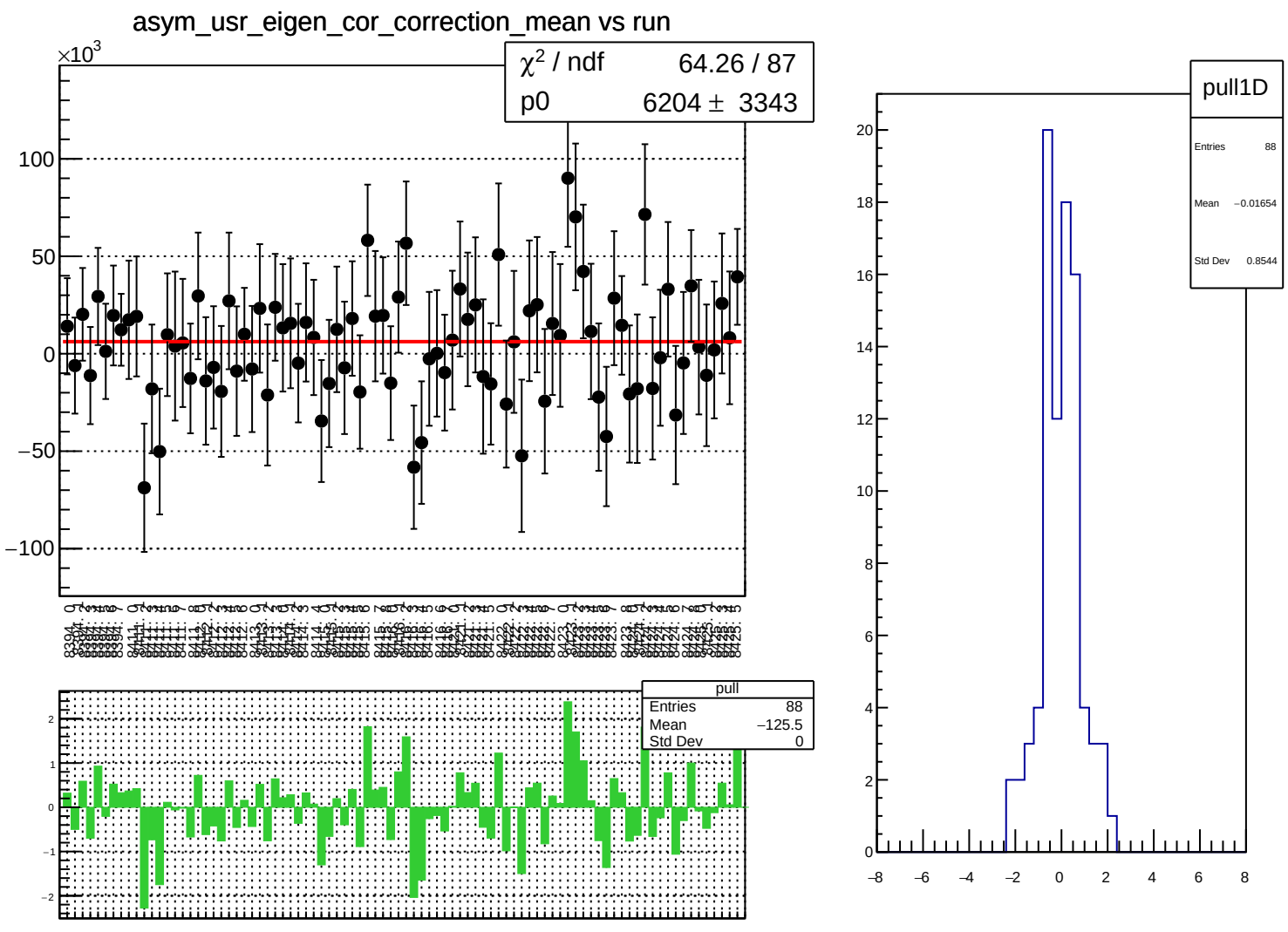

pull1D
Entries 88
Mean −0.01647
Std Dev 0.8562
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

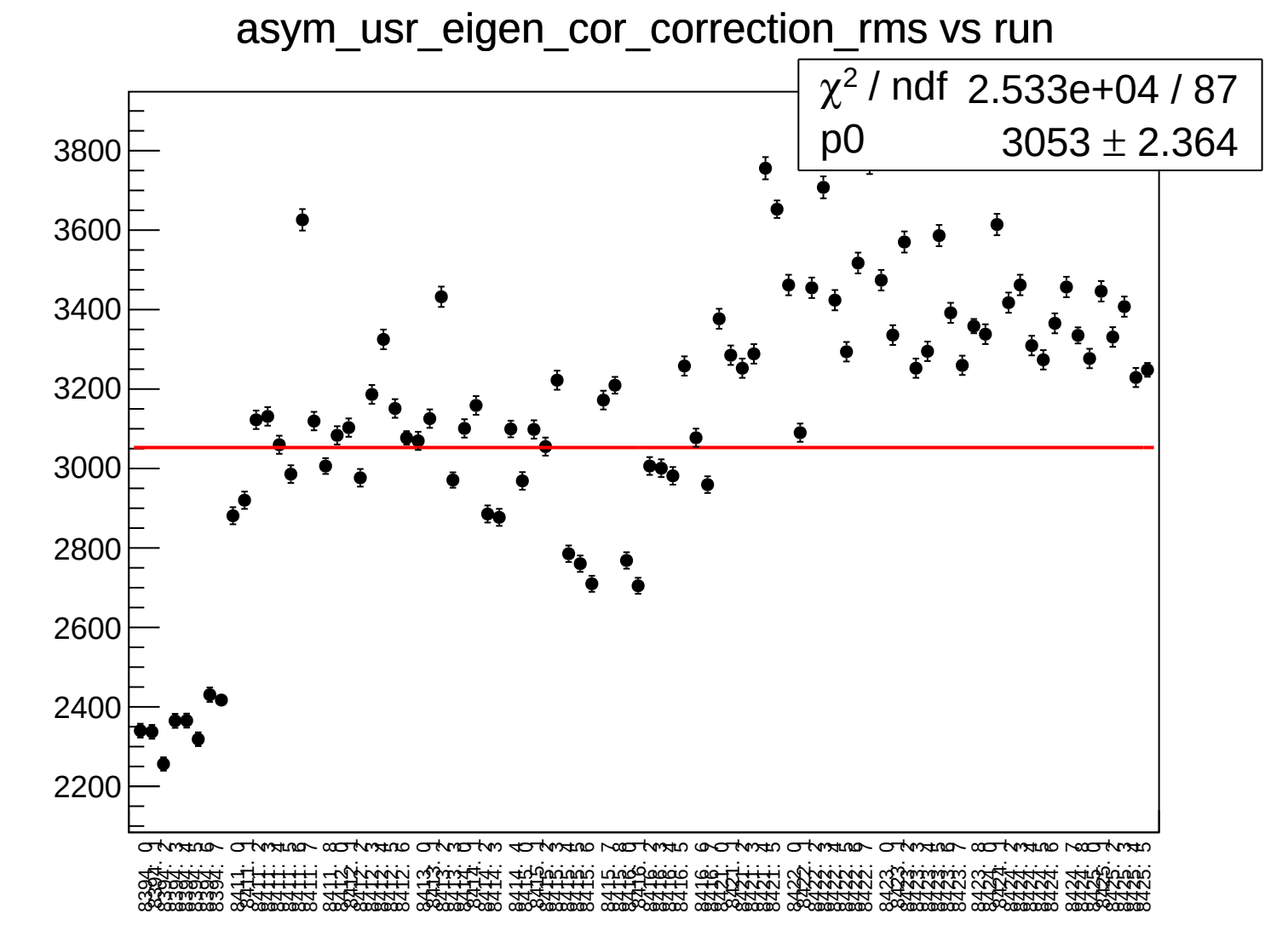

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 2.532e+04 / 87
p0 3053 ± 2.364
3800
3600
3400
3200
3000
2800
2600
2400
2200

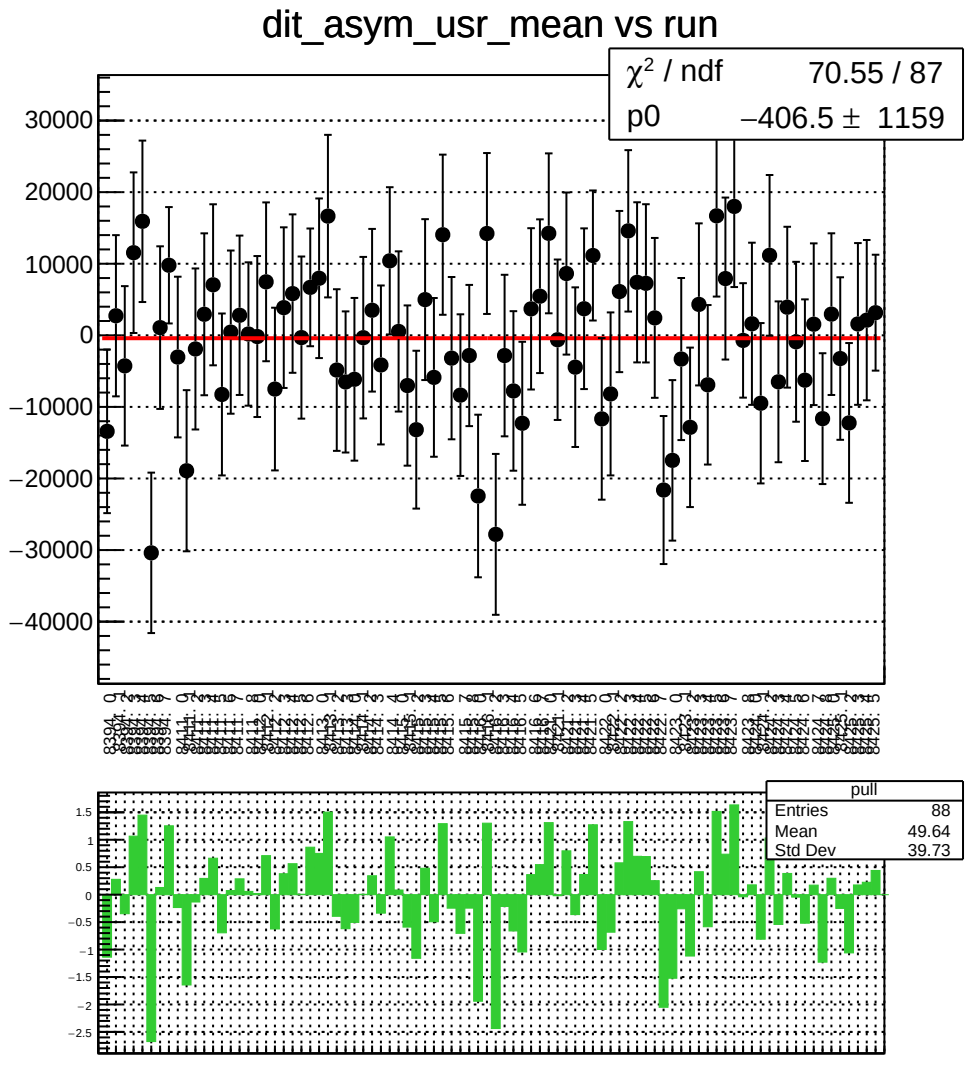

eigen_cor_asym_usr_mean vs run
χ² / ndf 73.24 / 87
p0 −424.4 ± 1158
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 72.08
Std Dev 21.29
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

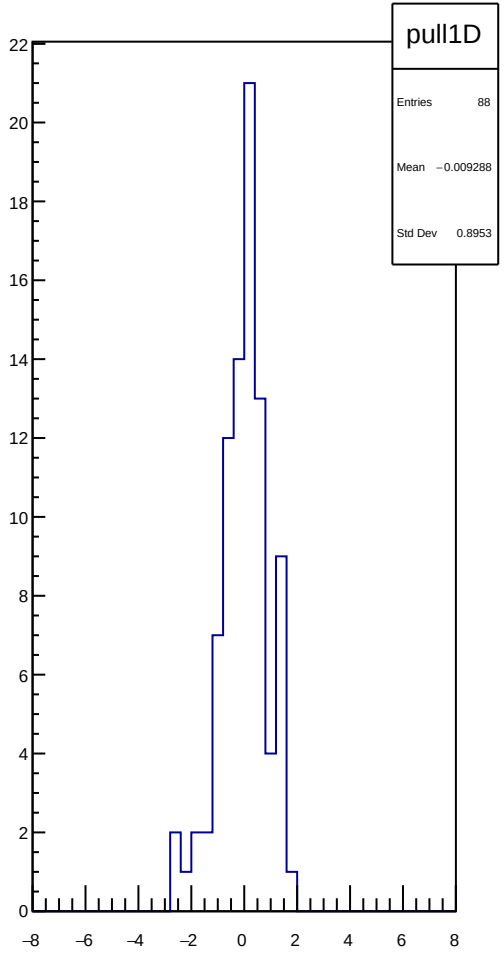

pull1D
Entries 88
Mean −0.009459
Std Dev 0.9122
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

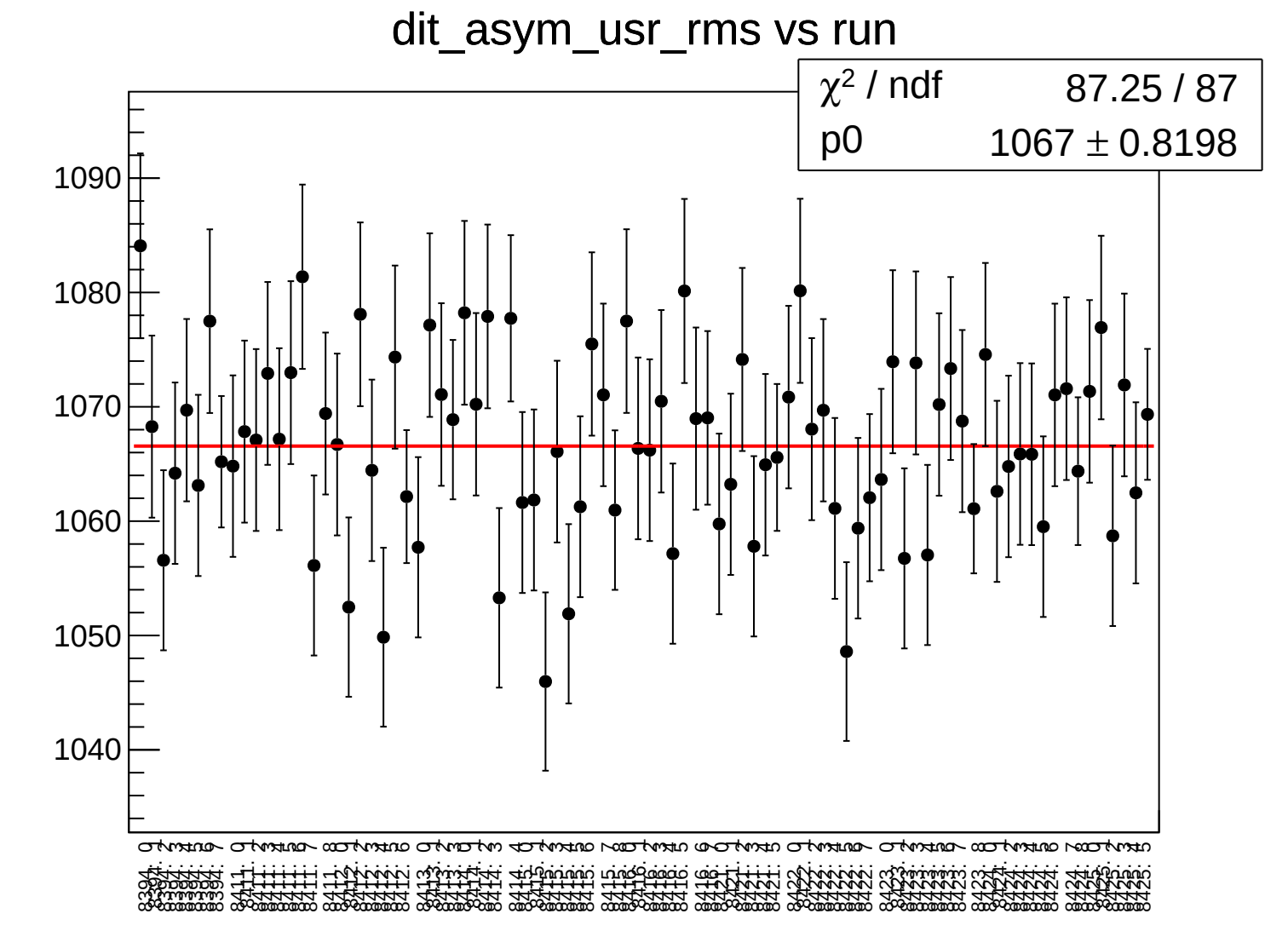

eigen_cor_asym_usr_rms vs run
χ^2 / ndf 85.31 / 87
p0 1065 ± 0.8185
1090
1080
1070
1060
1050
1040

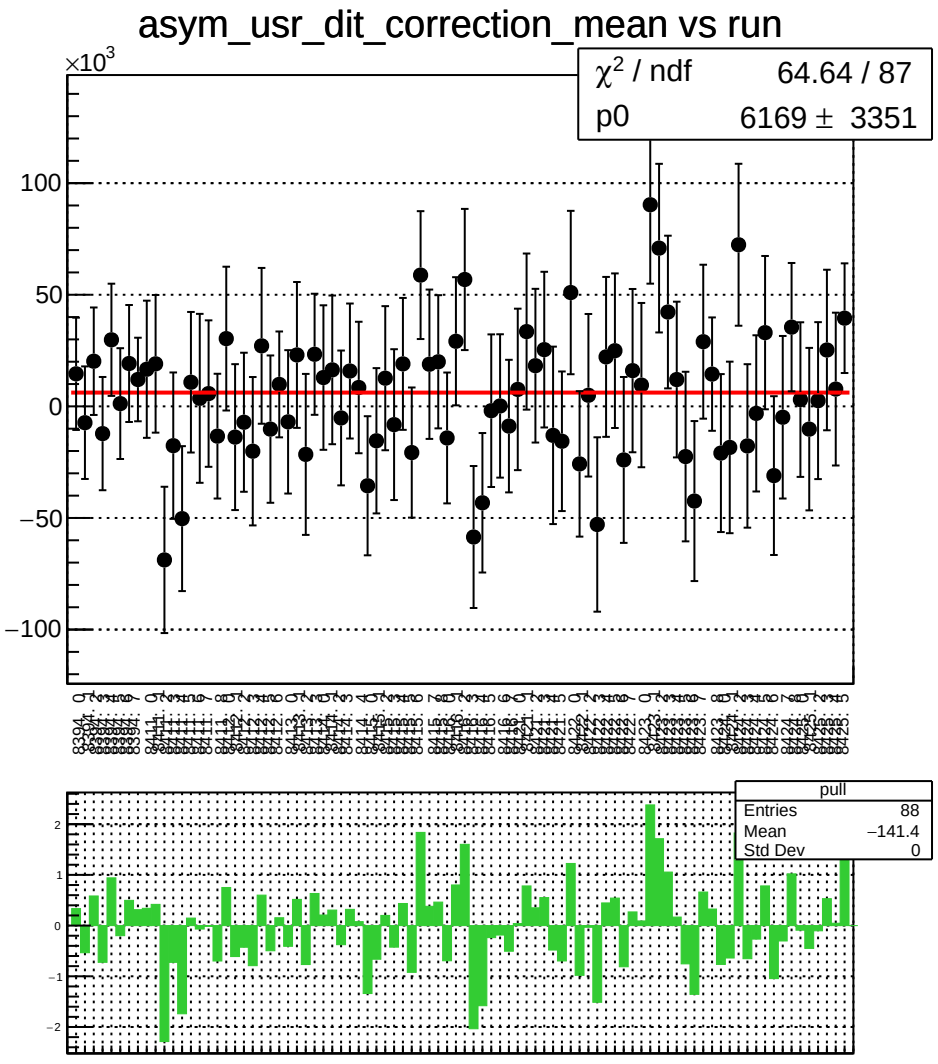

asym_usr_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 64.26 / 87
p0 6204 ± 3343
100
50
0
−50
−100
pull
Entries 88
Mean −125.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01654
Std Dev 0.8544
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

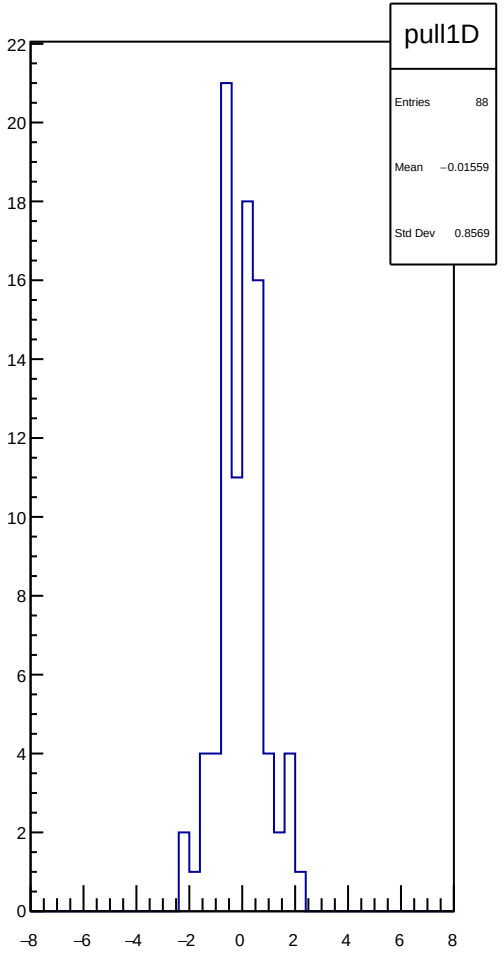

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 2.533e+04 / 87
p0 3053 ± 2.364
3800
3600
3400
3200
3000
2800
2600
2400
2200

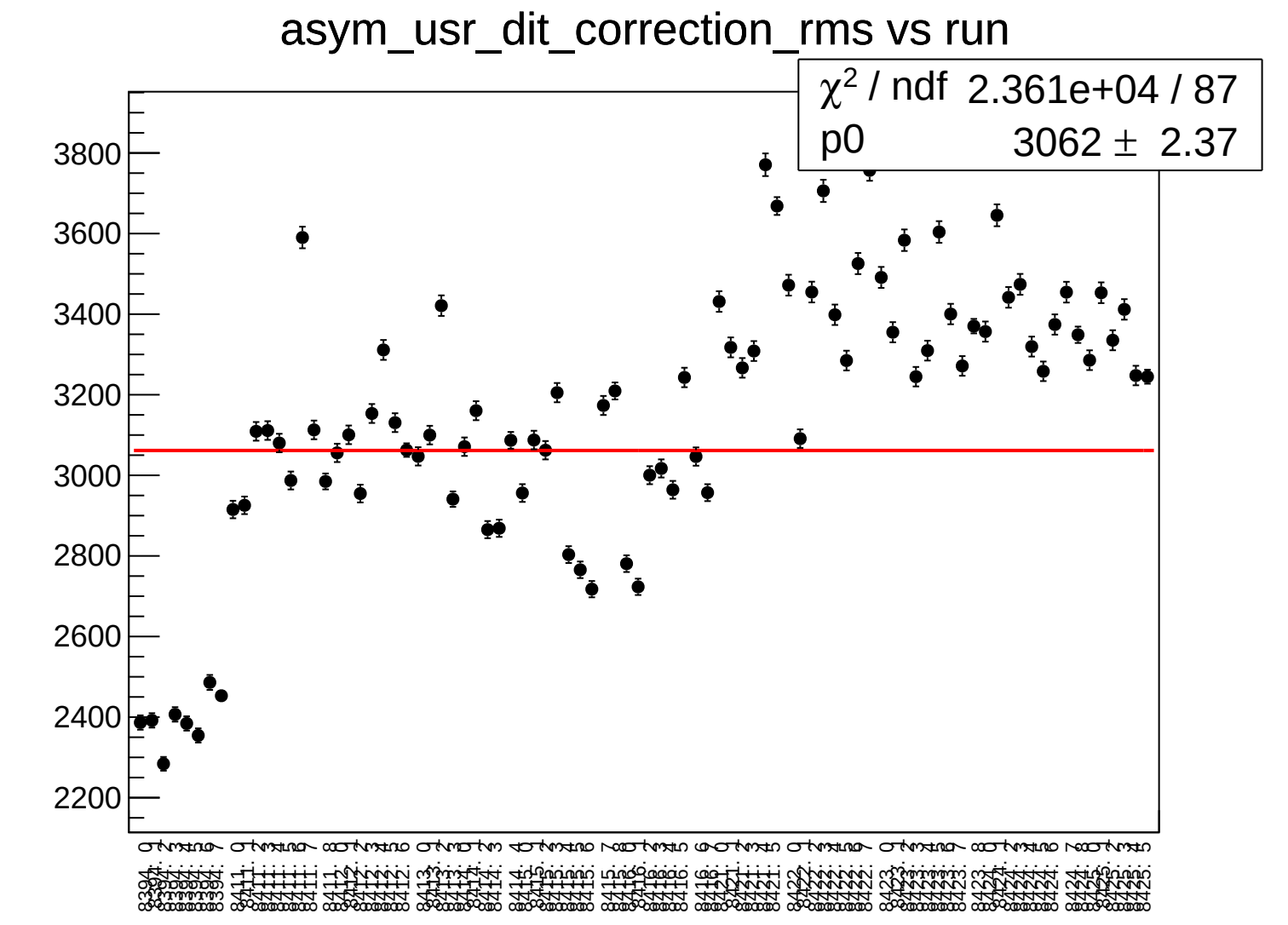

dit_asym_usr_mean vs run
χ² / ndf 70.55 / 87
p0 −406.5 ± 1159
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 49.64
Std Dev 39.73
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

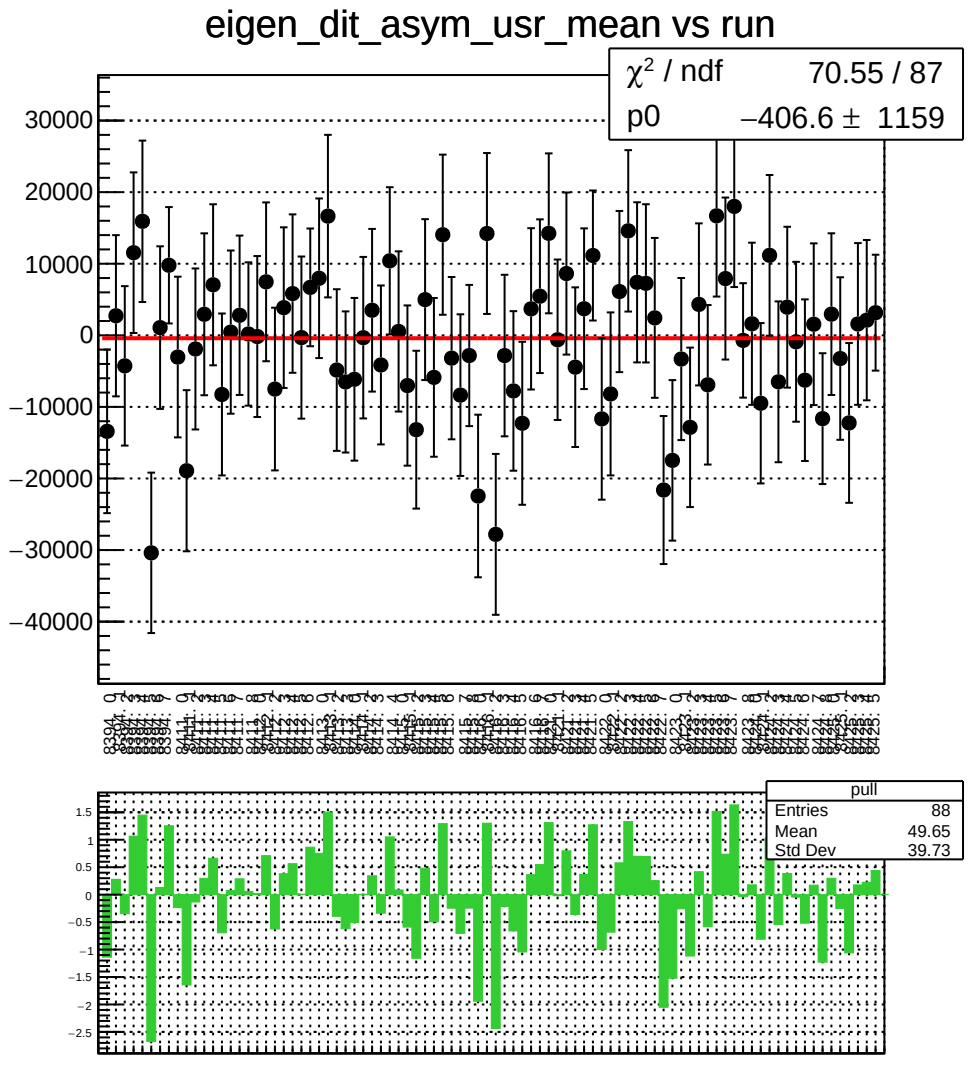

pull1D
Entries 88
Mean −0.009288
Std Dev 0.8953
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

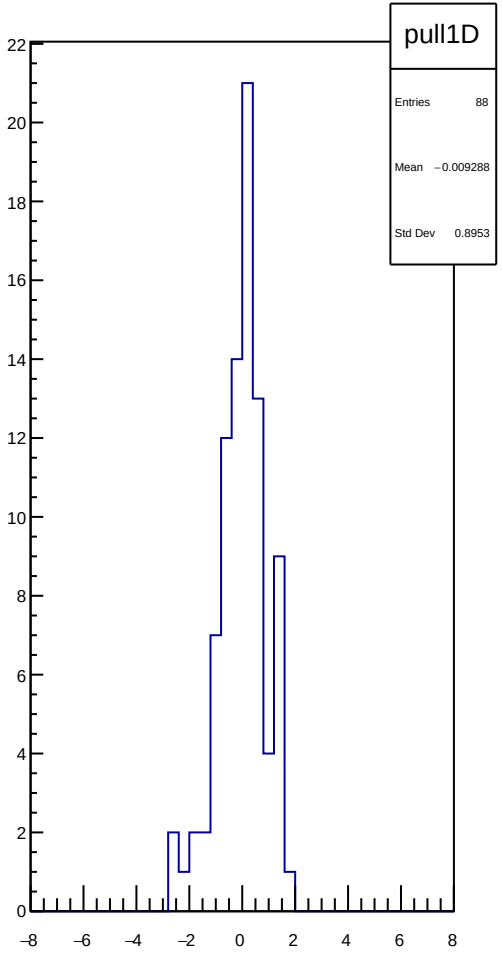

dit_asym_usr_rms vs run
χ² / ndf 87.25 / 87
p0 1067 ± 0.8198
1090
1080
1070
1060
1050
1040

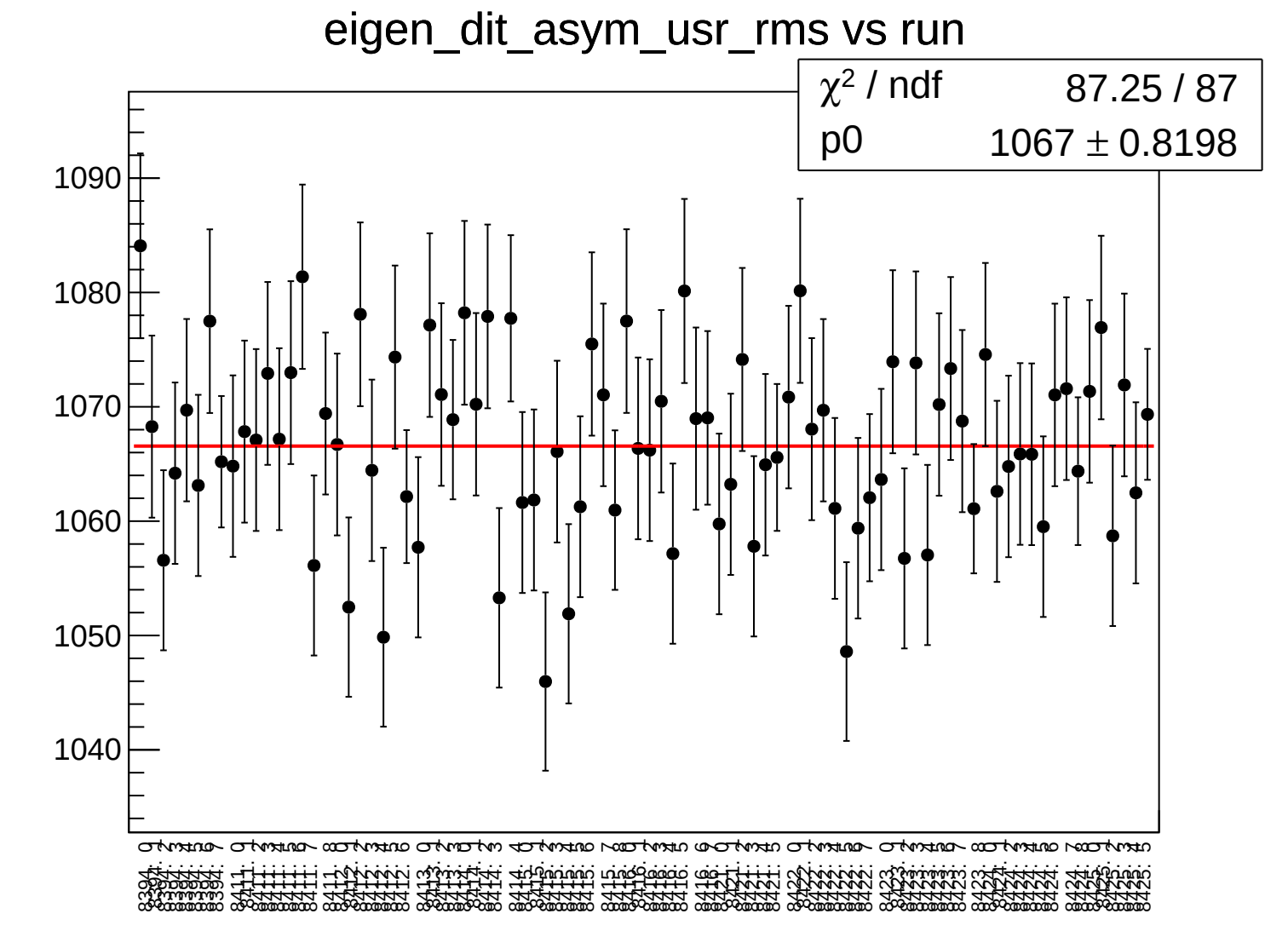

asym_usr_dit_correction_mean vs run
×10^3
χ² / ndf 64.64 / 87
p0 6169 ± 3351
100
50
0
−50
−100
pull
Entries 88
Mean −141.4
Std Dev 0
2
1
0
−1
−2

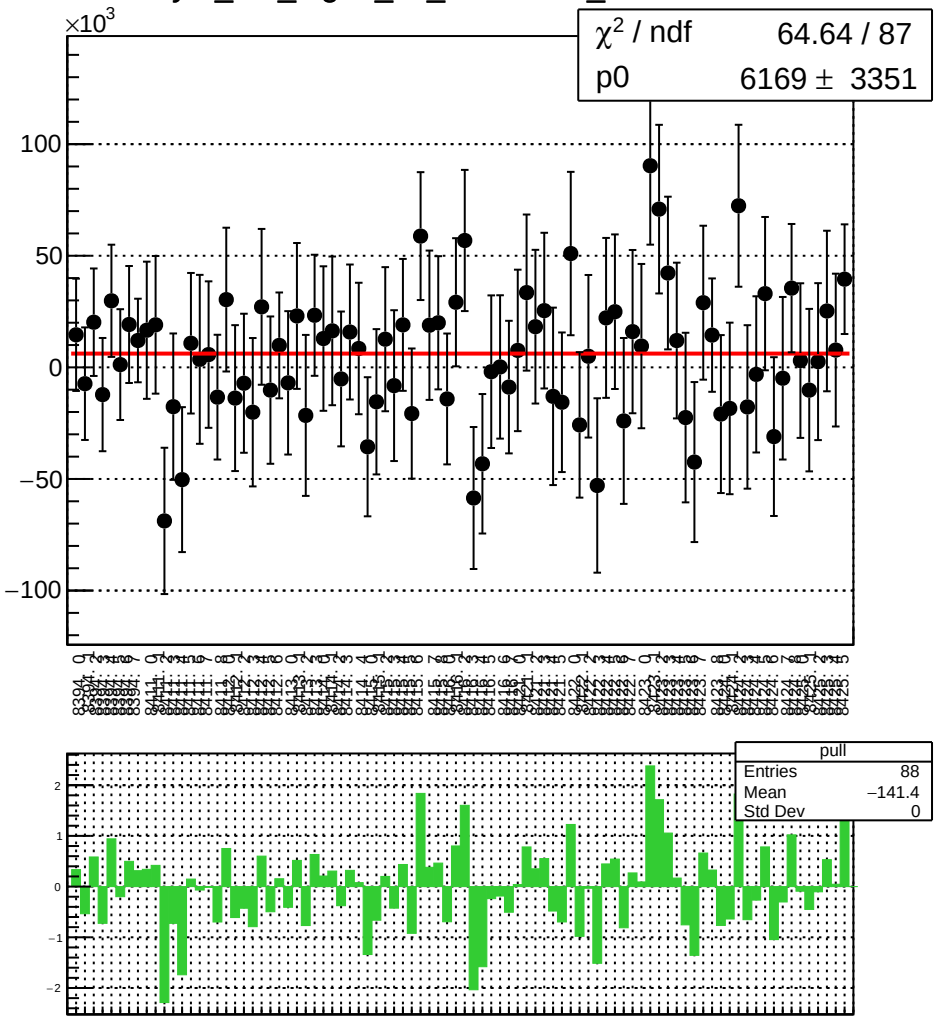

pull1D
Entries 88
Mean −0.01559
Std Dev 0.8569
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

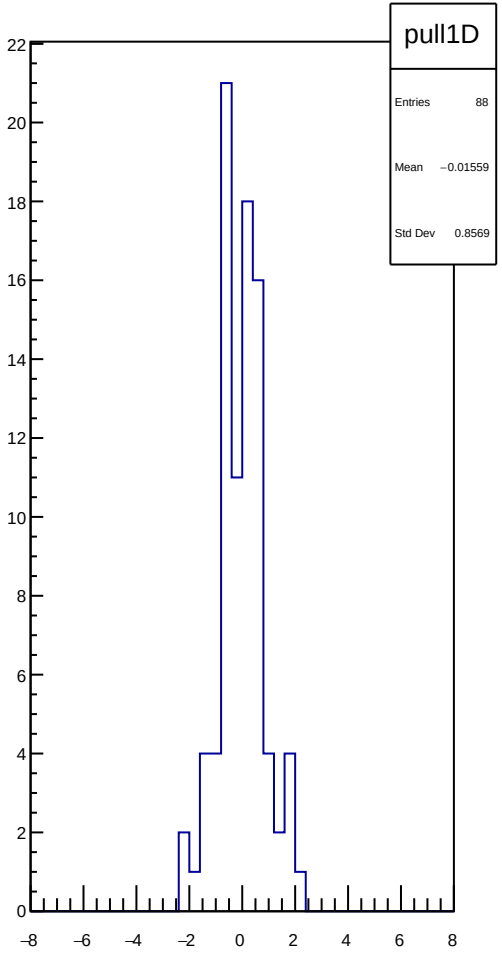

asym_usr_dit_correction_rms vs run
χ² / ndf 2.361e+04 / 87
p0 3062 ± 2.37
3800
3600
3400
3200
3000
2800
2600
2400
2200

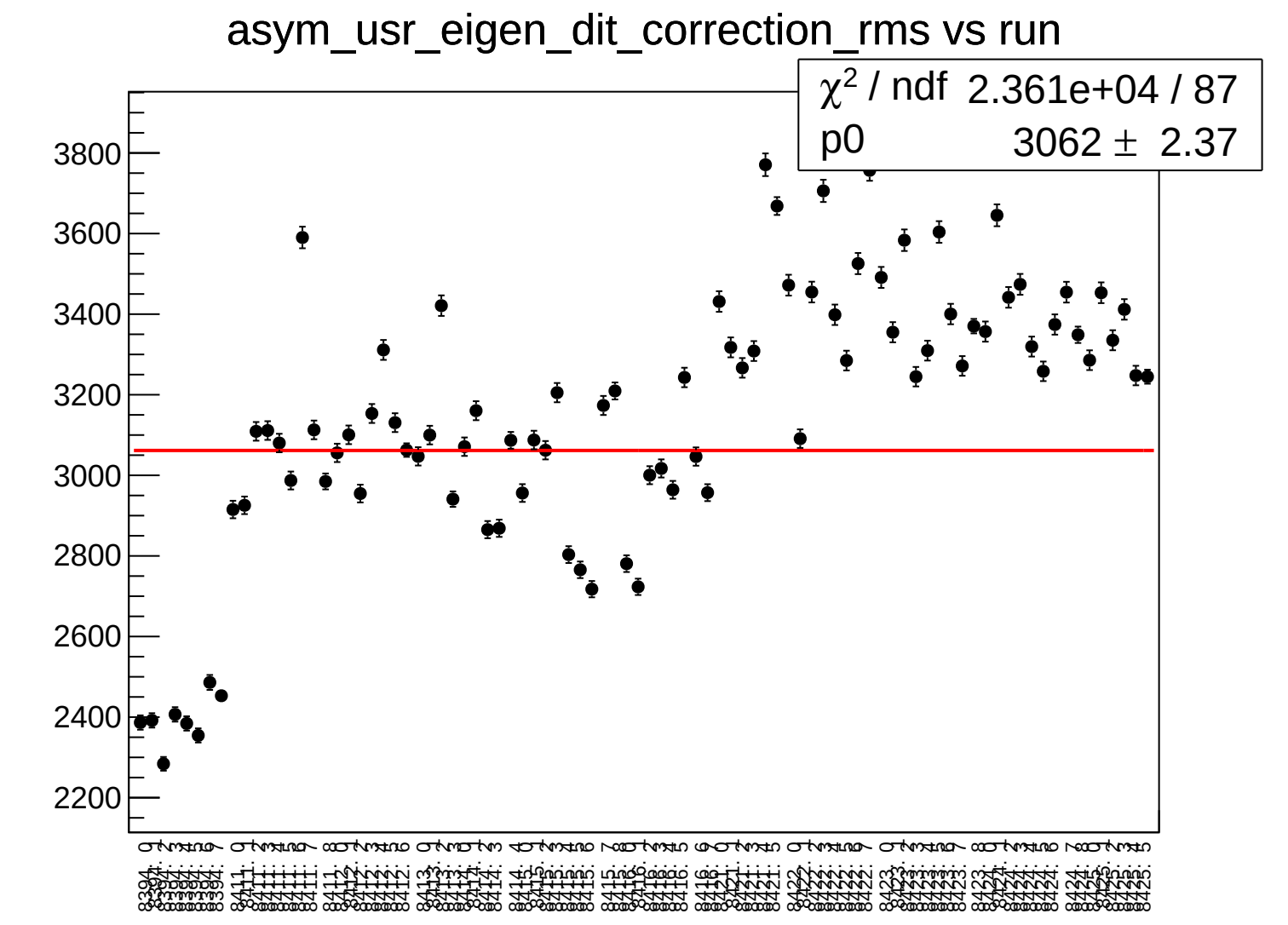

eigen_dit_asym_usr_mean vs run
χ² / ndf 70.55 / 87
p0 −406.6 ± 1159
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 49.65
Std Dev 39.73
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

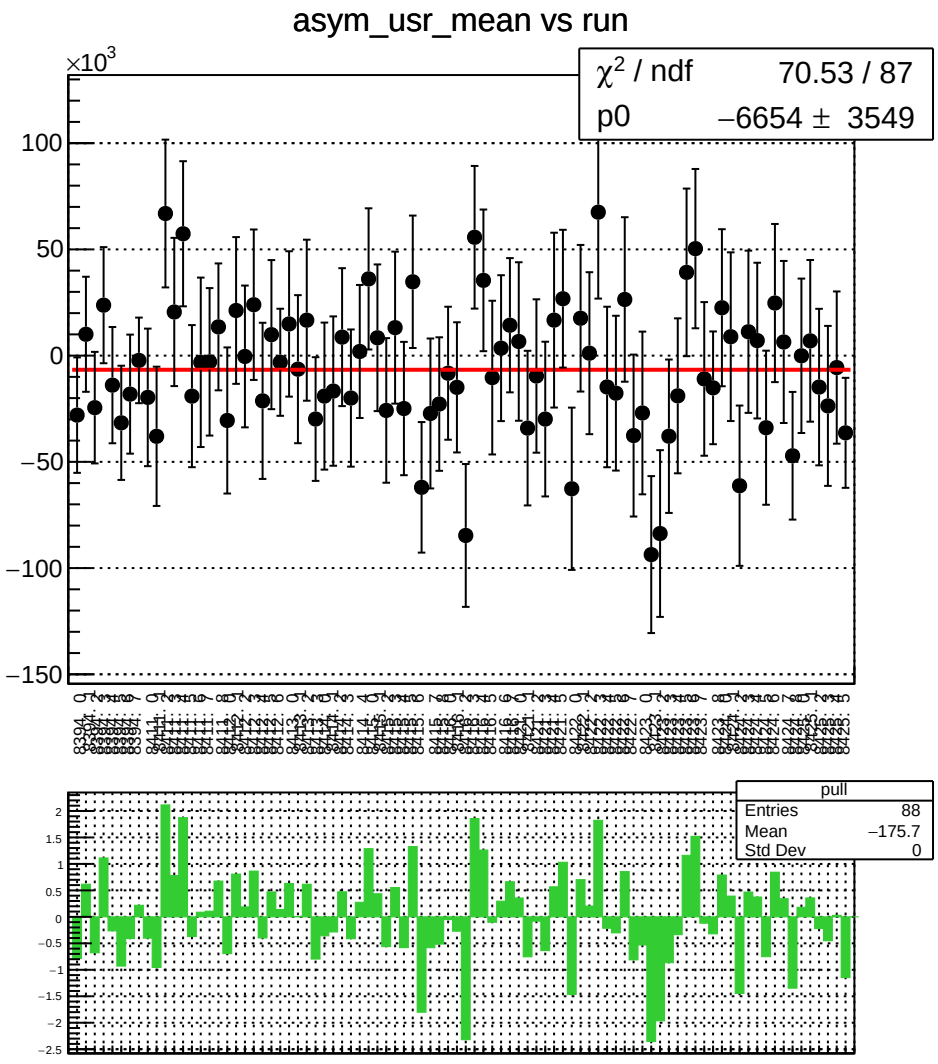

pull1D
Entries 88
Mean −0.009288
Std Dev 0.8953
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

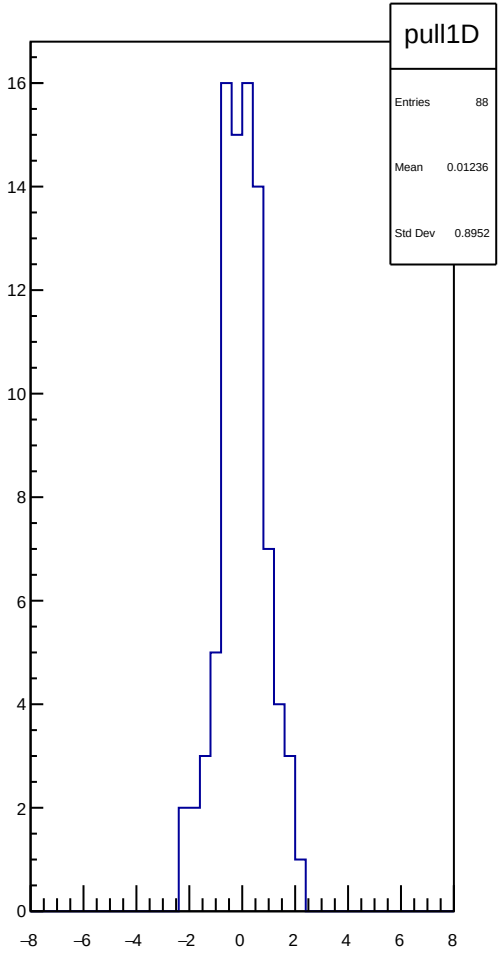

eigen_dit_asym_usr_rms vs run
χ^2 / ndf 87.25 / 87
p0 1067 ± 0.8198
1090
1080
1070
1060
1050
1040

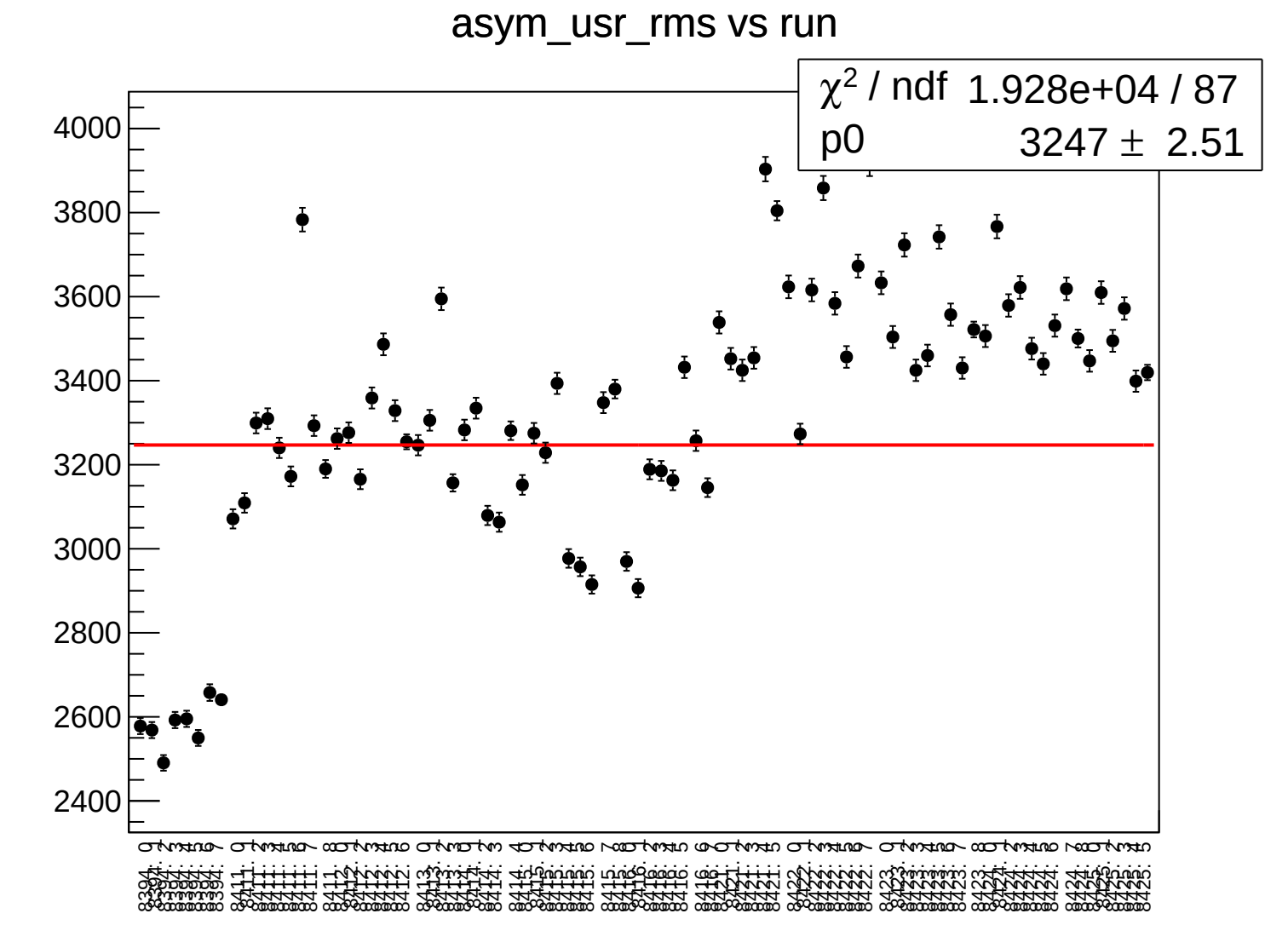

asym_usr_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 64.64 / 87
p0 6169 ± 3351
100
50
0
−50
−100
pull
Entries 88
Mean −141.4
Std Dev 0
2
1
0
−1
−2

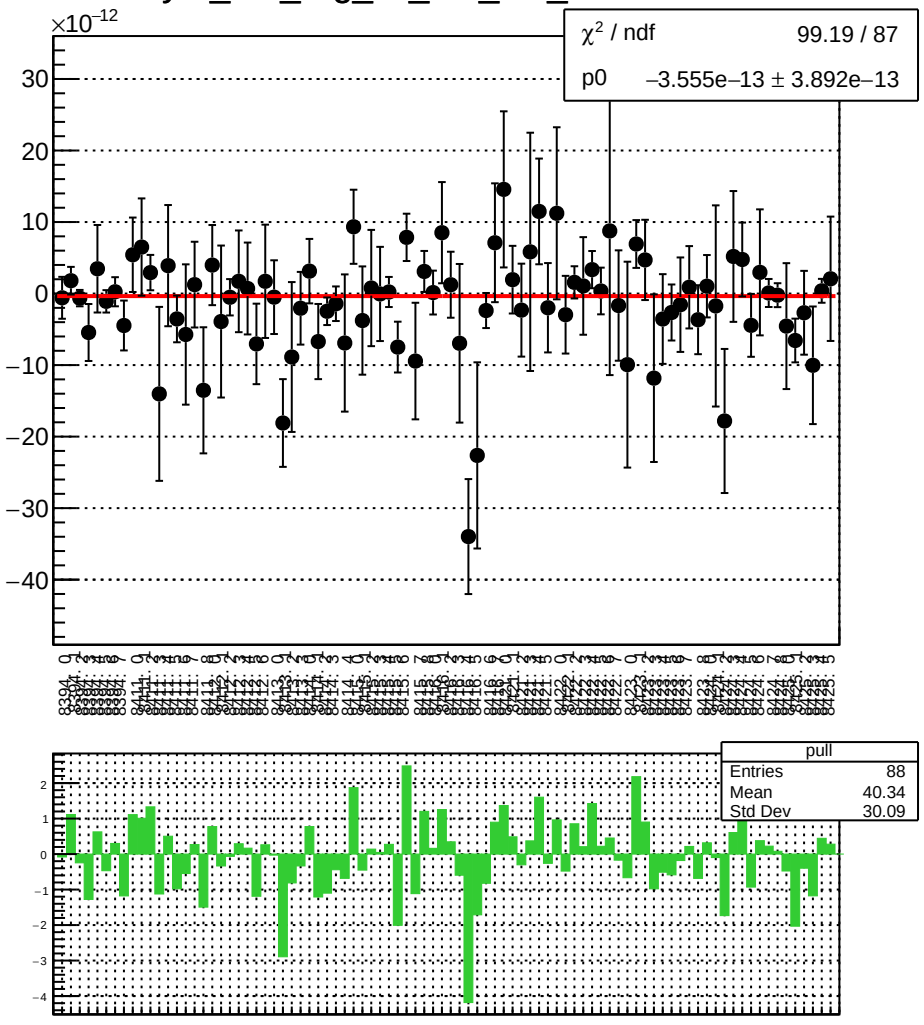

pull1D
Entries 88
Mean −0.01559
Std Dev 0.8569
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

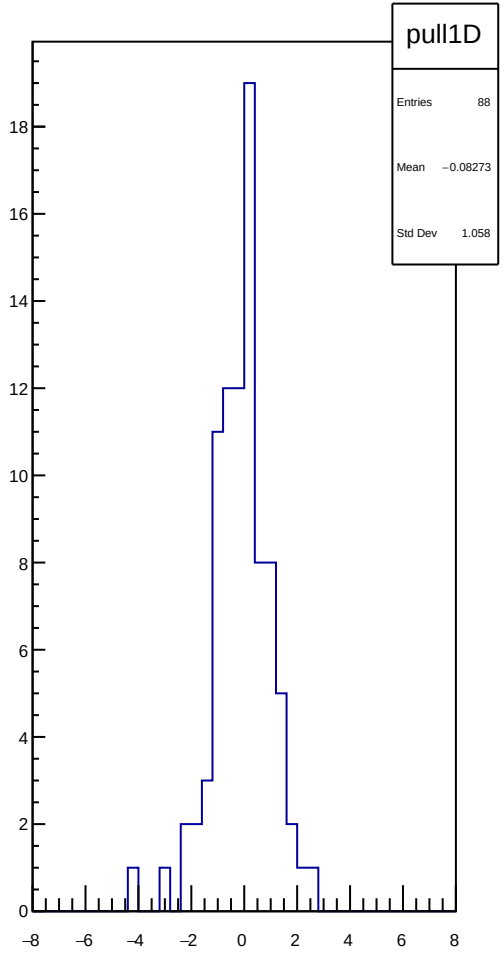

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 2.361e+04 / 87
p0 3062 ± 2.37
3800
3600
3400
3200
3000
2800
2600
2400
2200

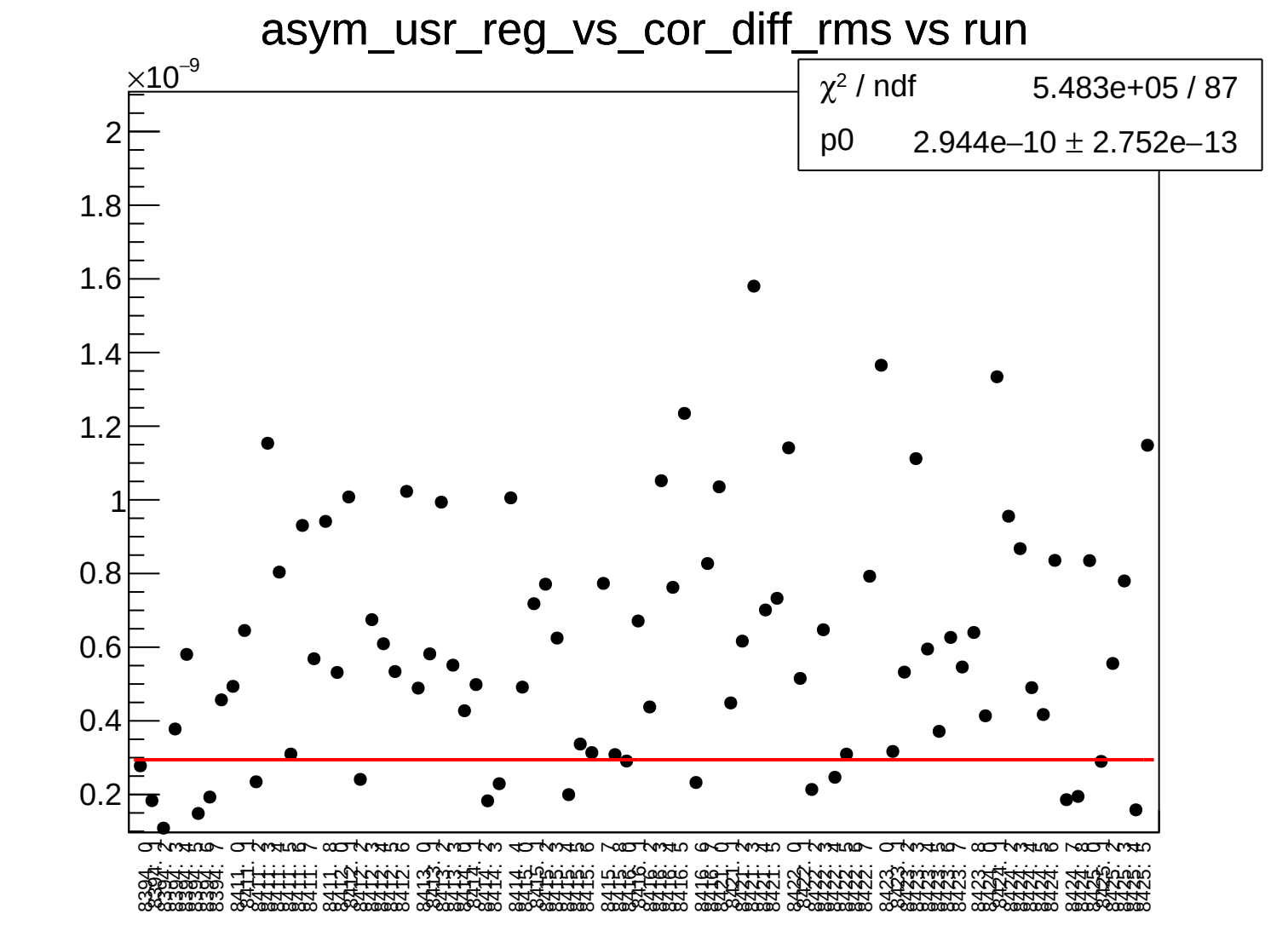

asym_usr_mean vs run
×10^3
χ² / ndf 70.53 / 87
p0 −6654 ± 3549
100
50
0
−50
−100
−150
pull
Entries 88
Mean −175.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

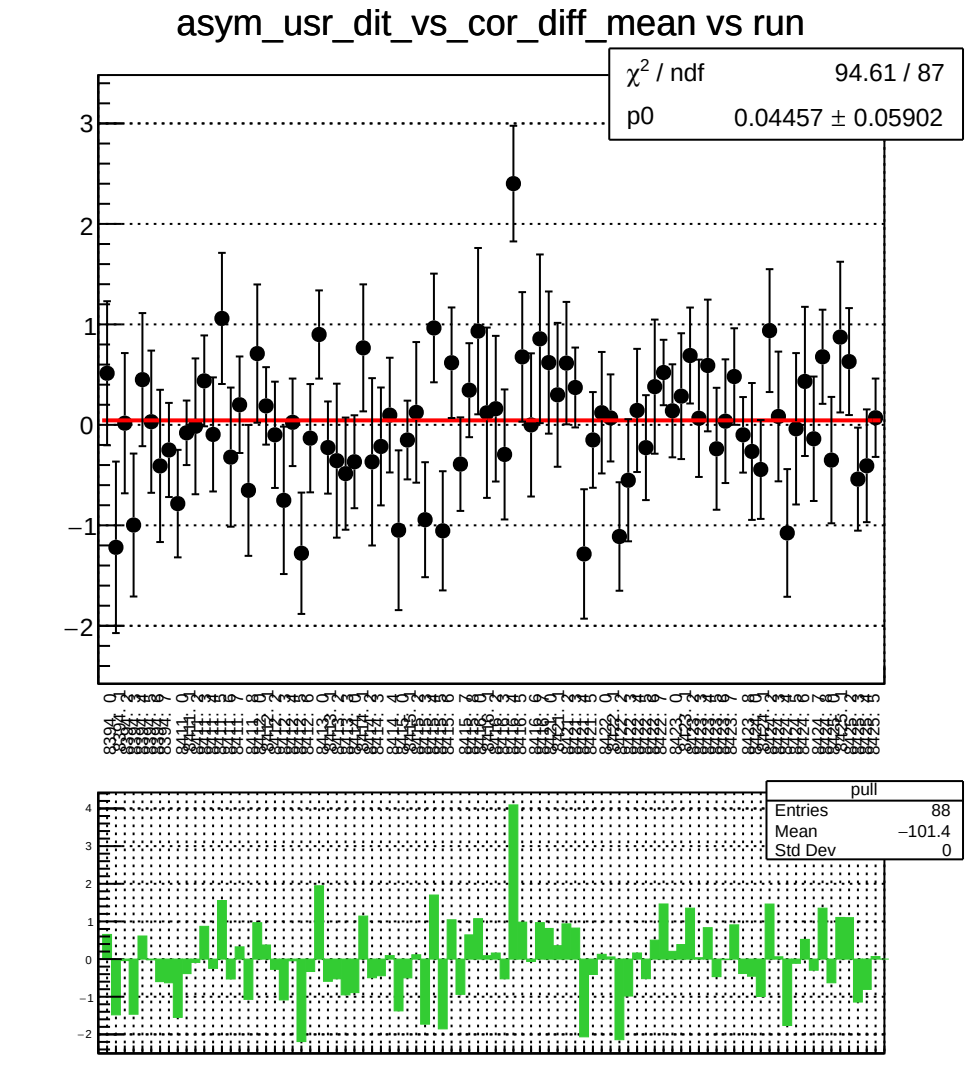

pull1D
Entries 88
Mean 0.01236
Std Dev 0.8952
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

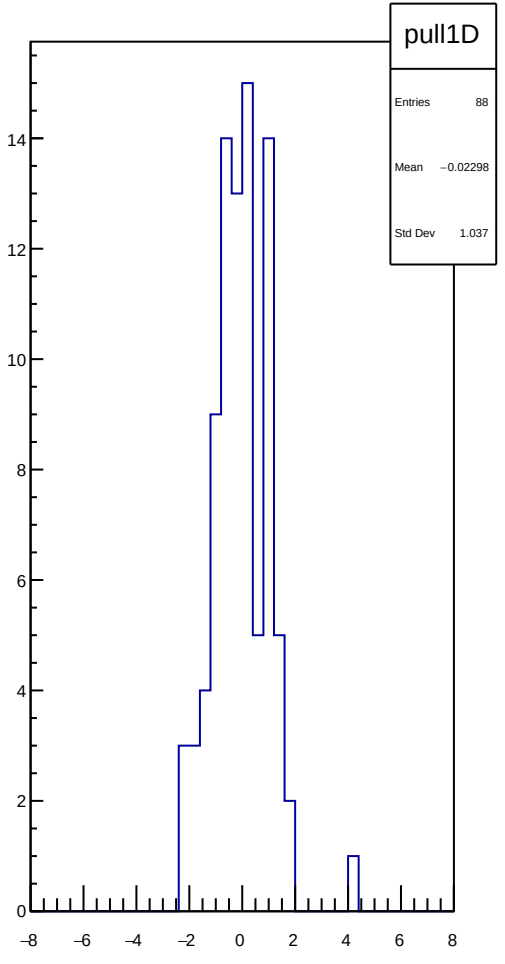

asym_usr_rms vs run
χ² / ndf 1.928e+04 / 87
p0 3247 ± 2.51
4000
3800
3600
3400
3200
3000
2800
2600
2400

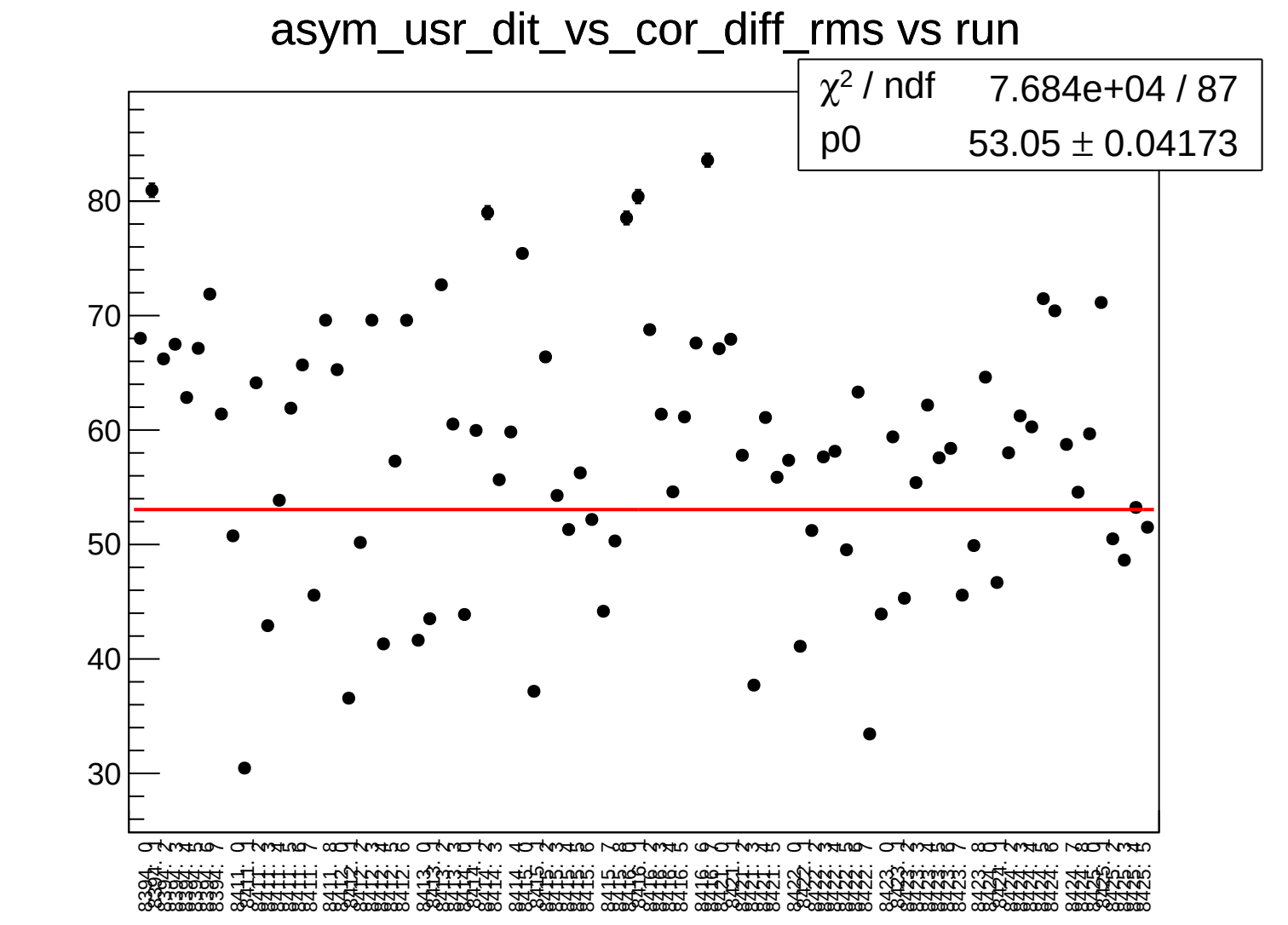

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.19 / 87
p0 −3.555e−13 ± 3.892e−13
pull
Entries 88
Mean 40.34
Std Dev 30.09

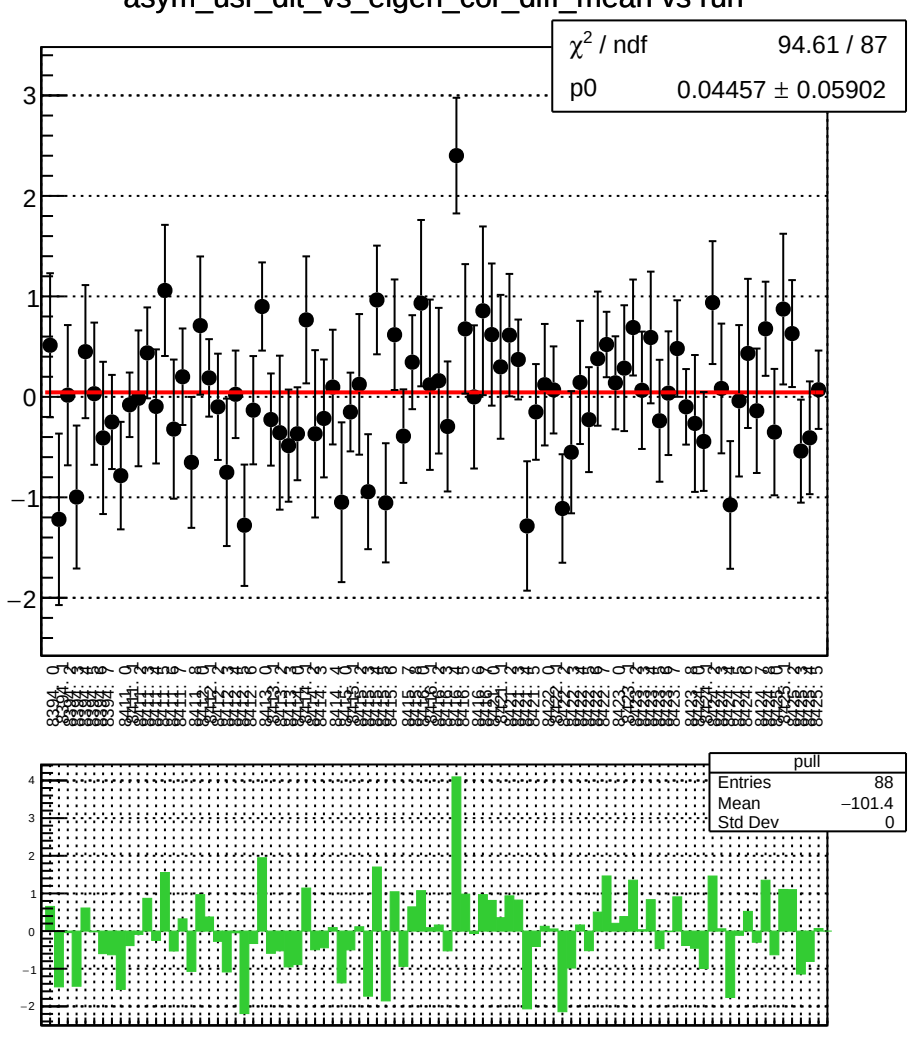

pull1D
Entries 88
Mean −0.08273
Std Dev 1.058

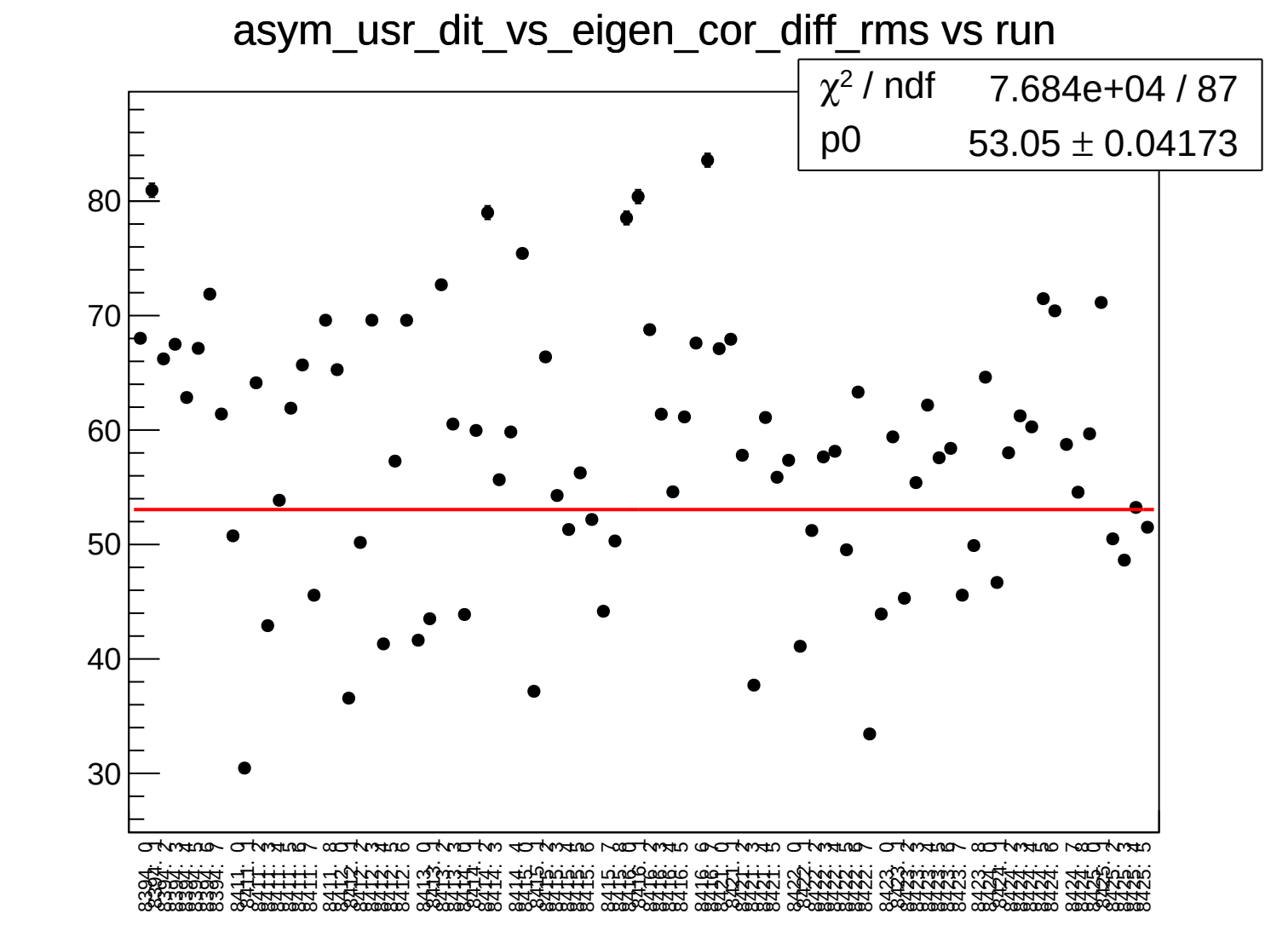

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.483e+05 / 87
p0 2.944e−10 ± 2.752e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

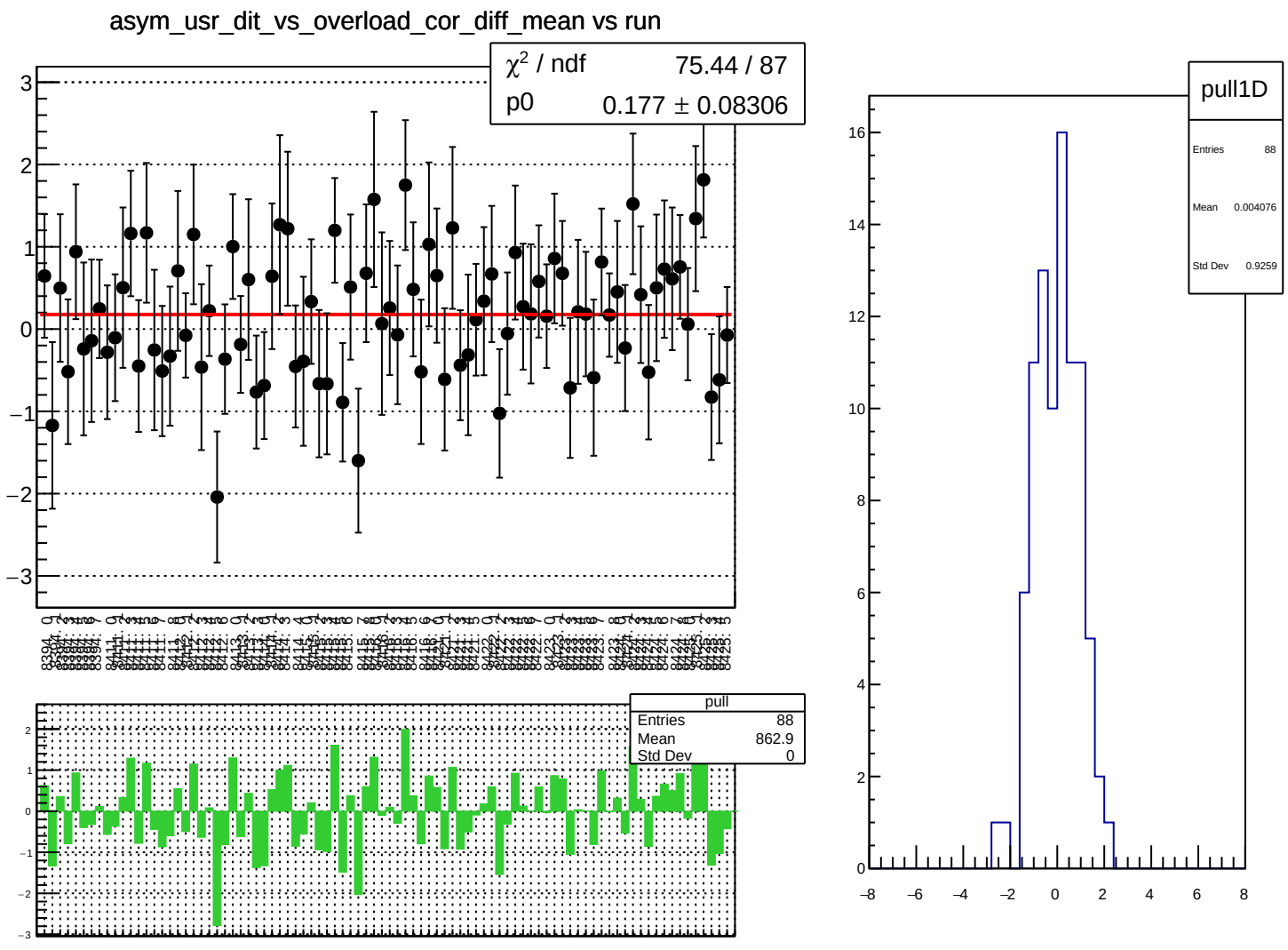

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 94.61 / 87
p0 0.04457 ± 0.05902
pull
Entries 88
Mean −101.4
Std Dev 0

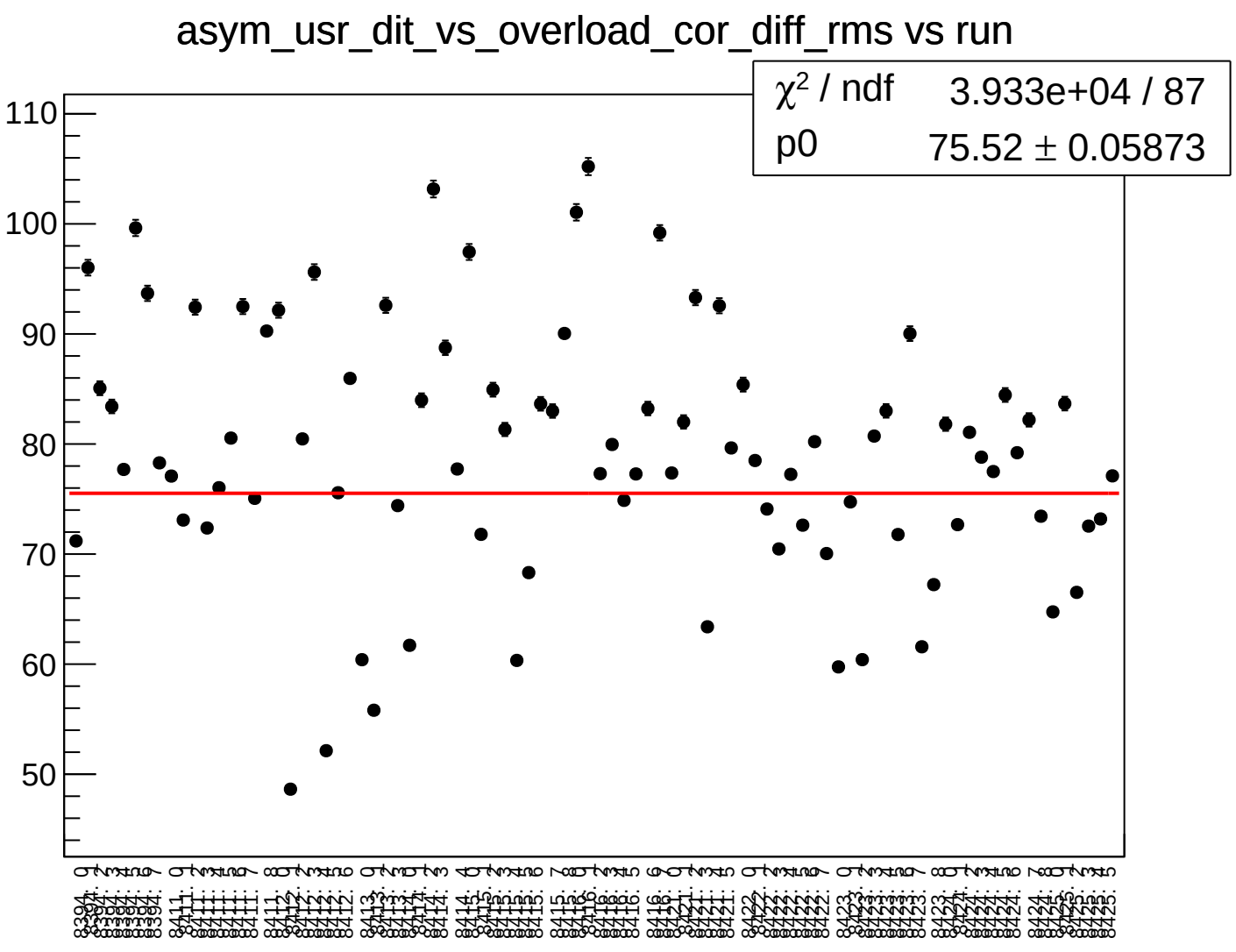

pull1D
Entries 88
Mean −0.02298
Std Dev 1.037

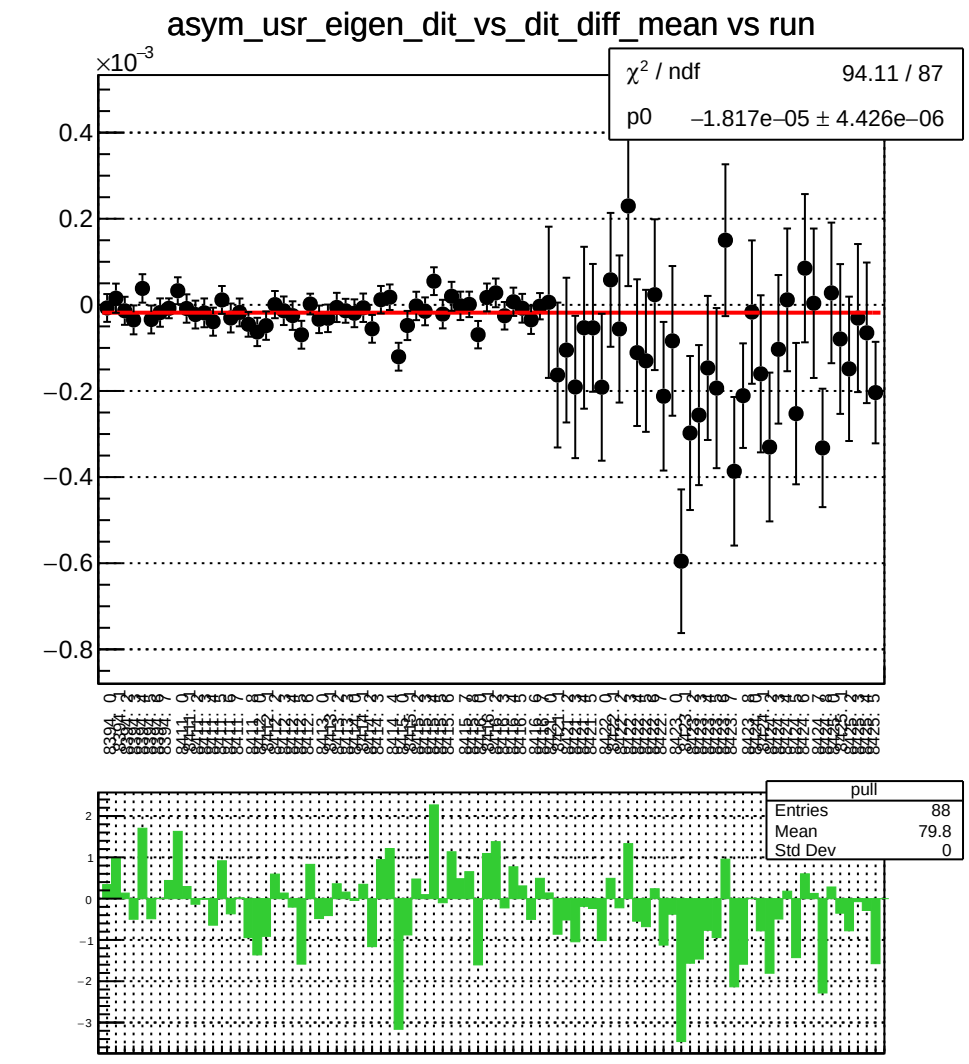

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 7.684e+04 / 87
p0 53.05 ± 0.04173
80
70
60
50
40
30

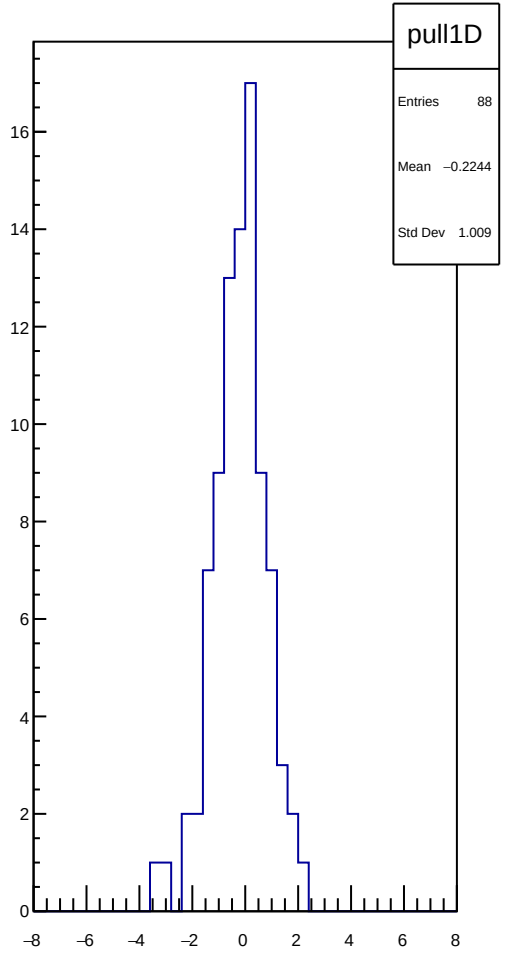

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.61 / 87
p0 0.04457 ± 0.05902
pull
Entries 88
Mean −101.4
Std Dev 0
pull1D
Entries 88
Mean −0.02298
Std Dev 1.037

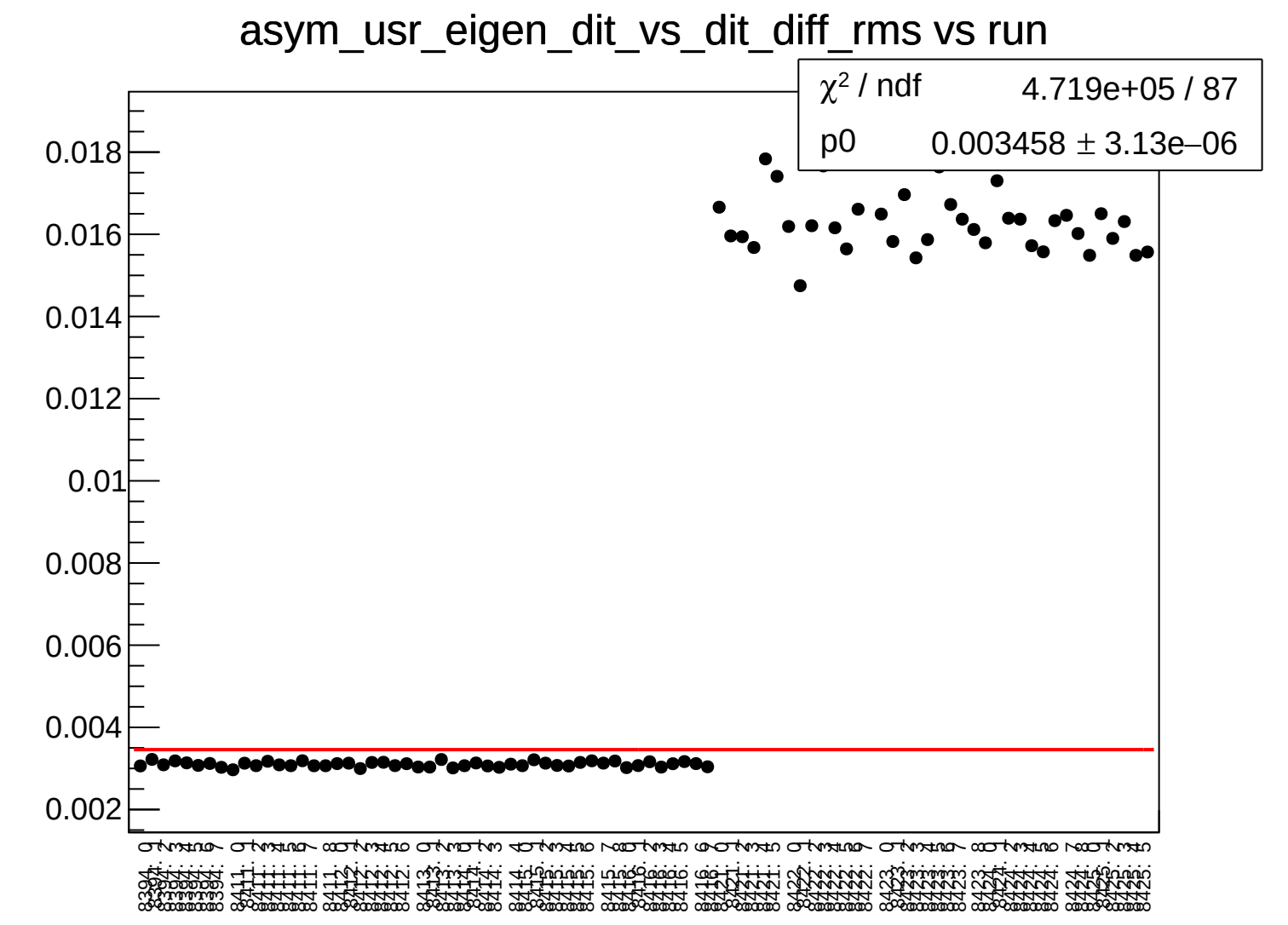

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.684e+04 / 87
p0 53.05 ± 0.04173
80
70
60
50
40
30

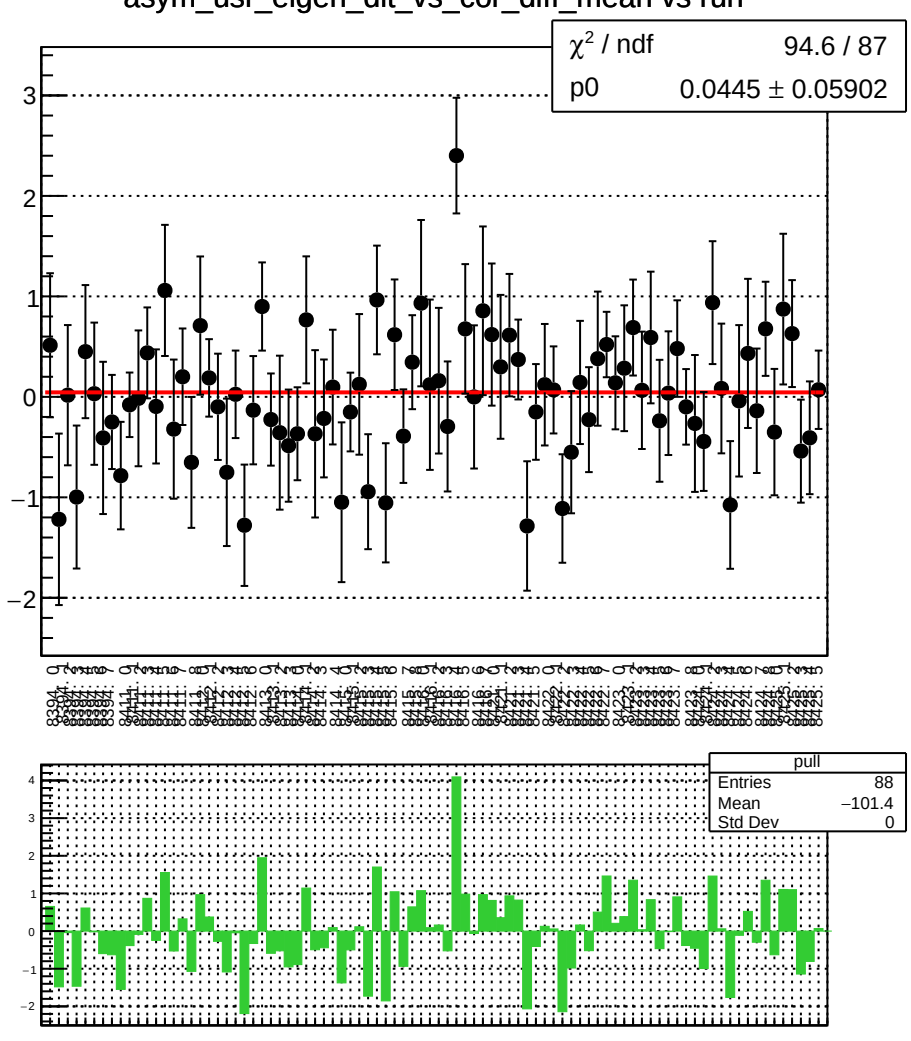

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 75.44 / 87
p0 0.177 ± 0.08306
pull
Entries 88
Mean 862.9
Std Dev 0
pull1D
Entries 88
Mean 0.004076
Std Dev 0.9259

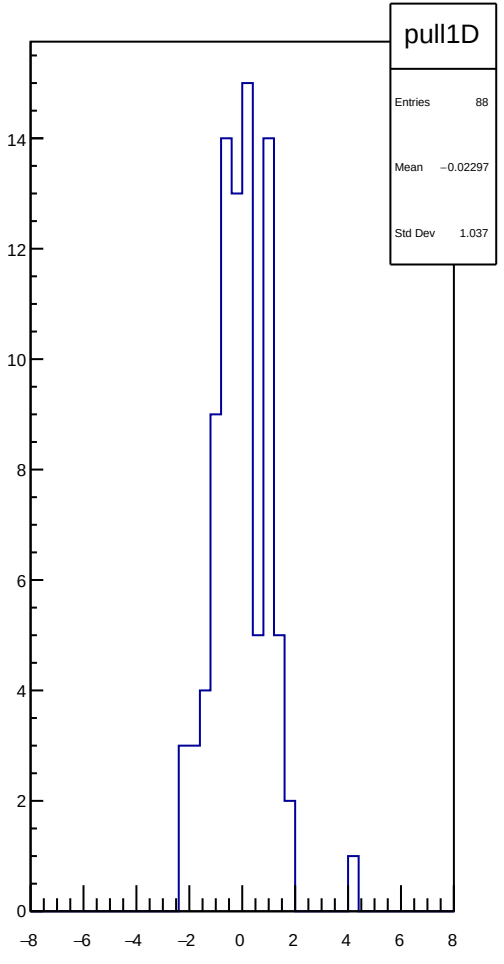

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.933e+04 / 87
p0 75.52 ± 0.05873
110
100
90
80
70
60
50

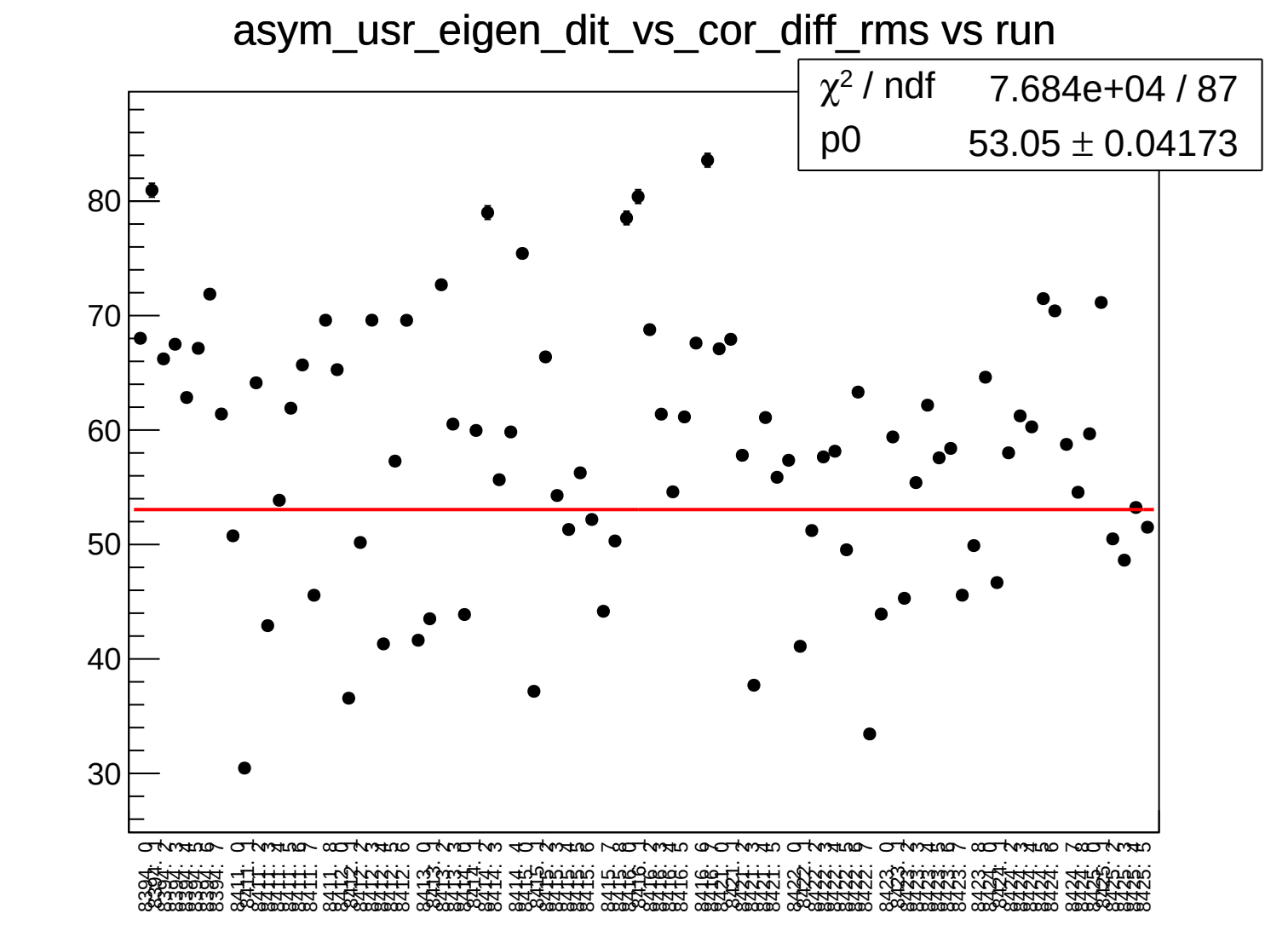

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.11 / 87
p0 −1.817e−05 ± 4.426e−06
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 88
Mean 79.8
Std Dev 0
2
1
0
−1
−2
−3

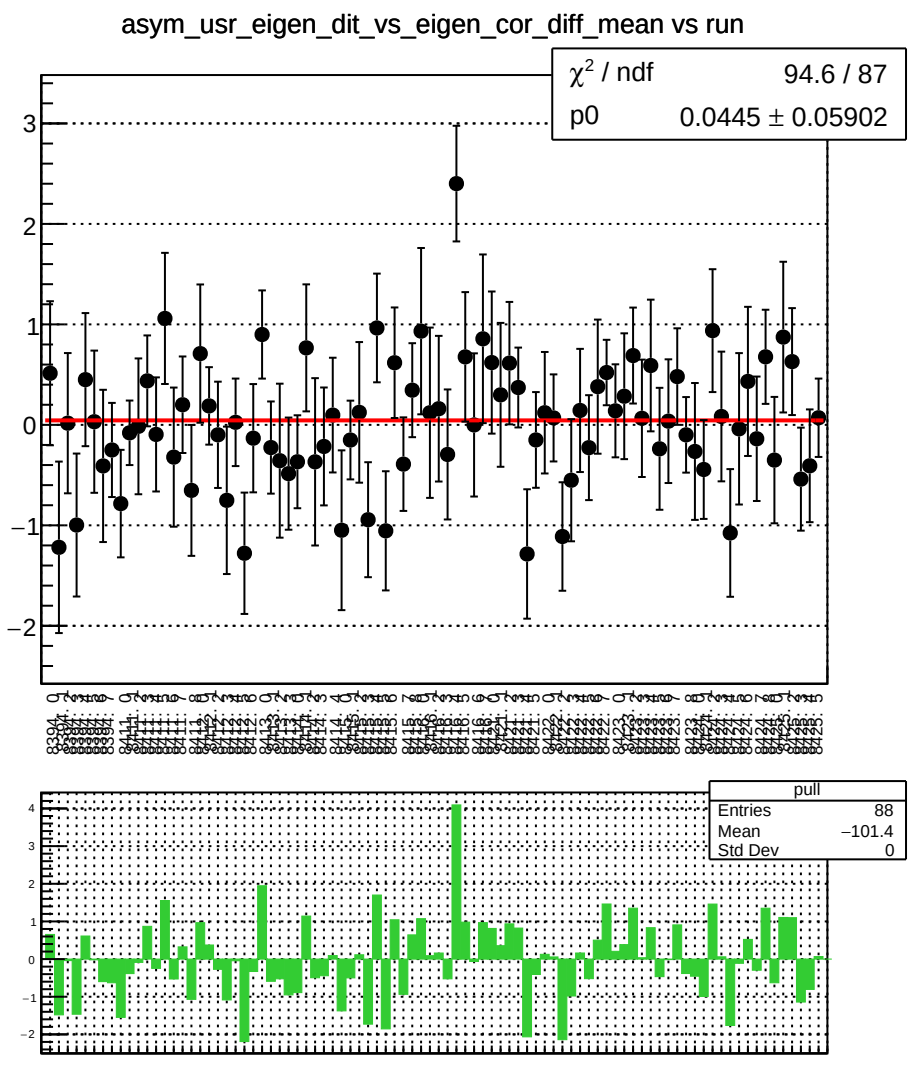

pull1D
Entries 88
Mean −0.2244
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

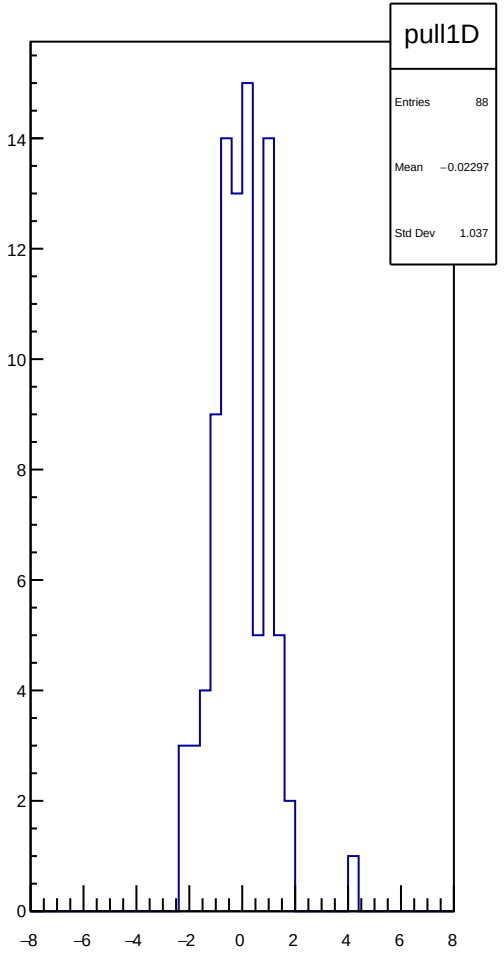

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.719e+05 / 87
p0 0.003458 ± 3.13e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

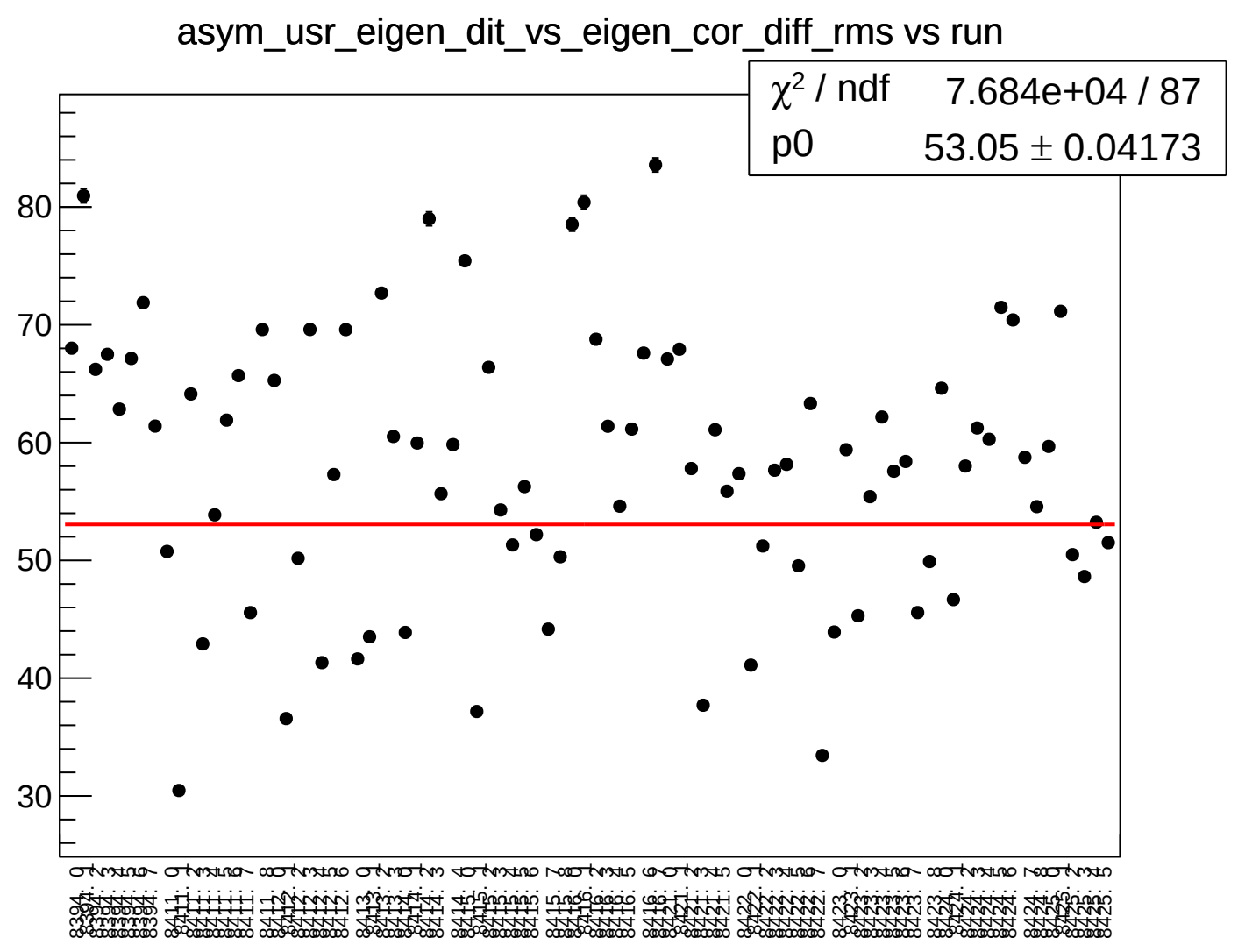

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.6 / 87
p0 0.0445 ± 0.05902
pull
Entries 88
Mean −101.4
Std Dev 0

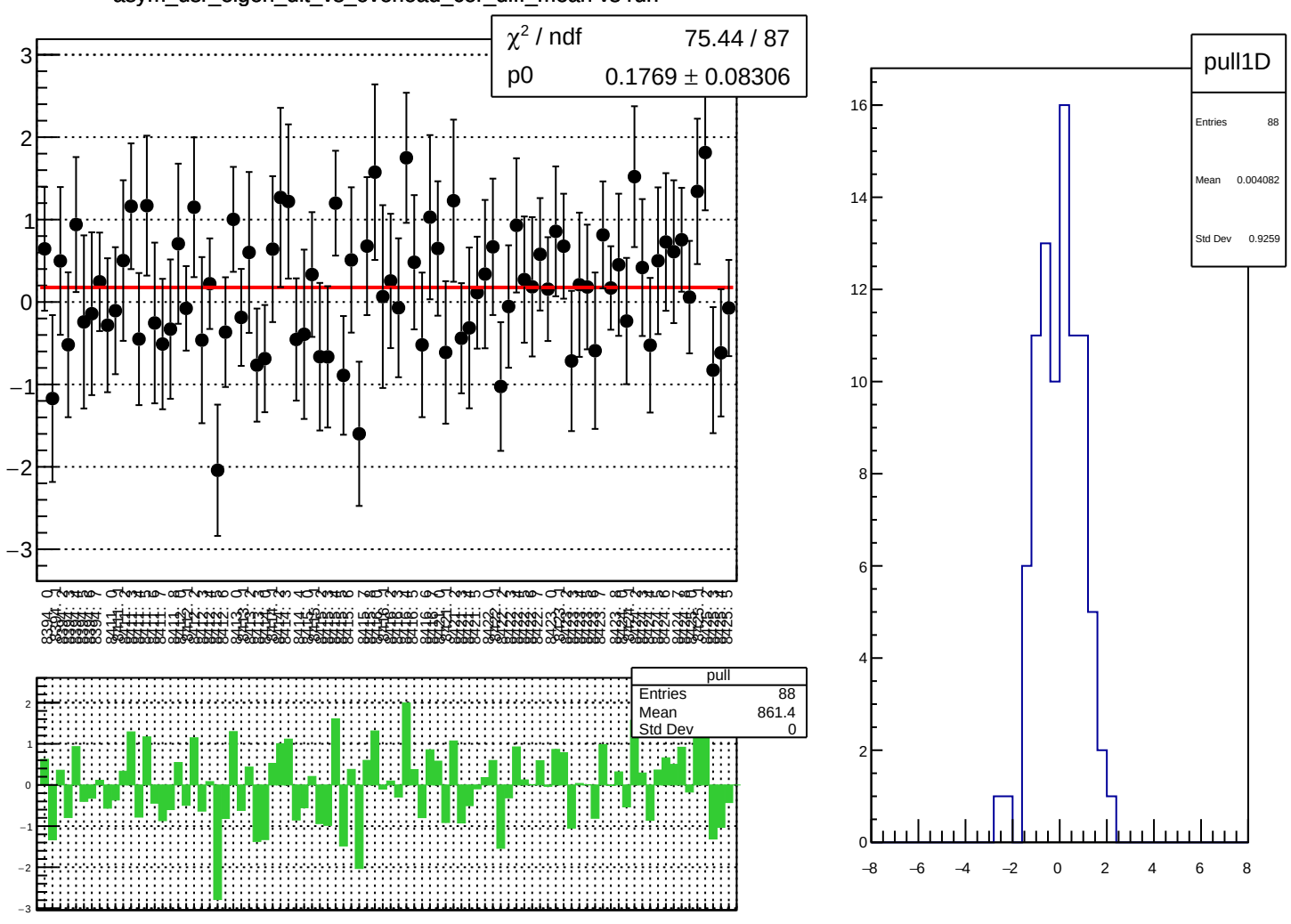

pull1D
Entries 88
Mean −0.02297
Std Dev 1.037

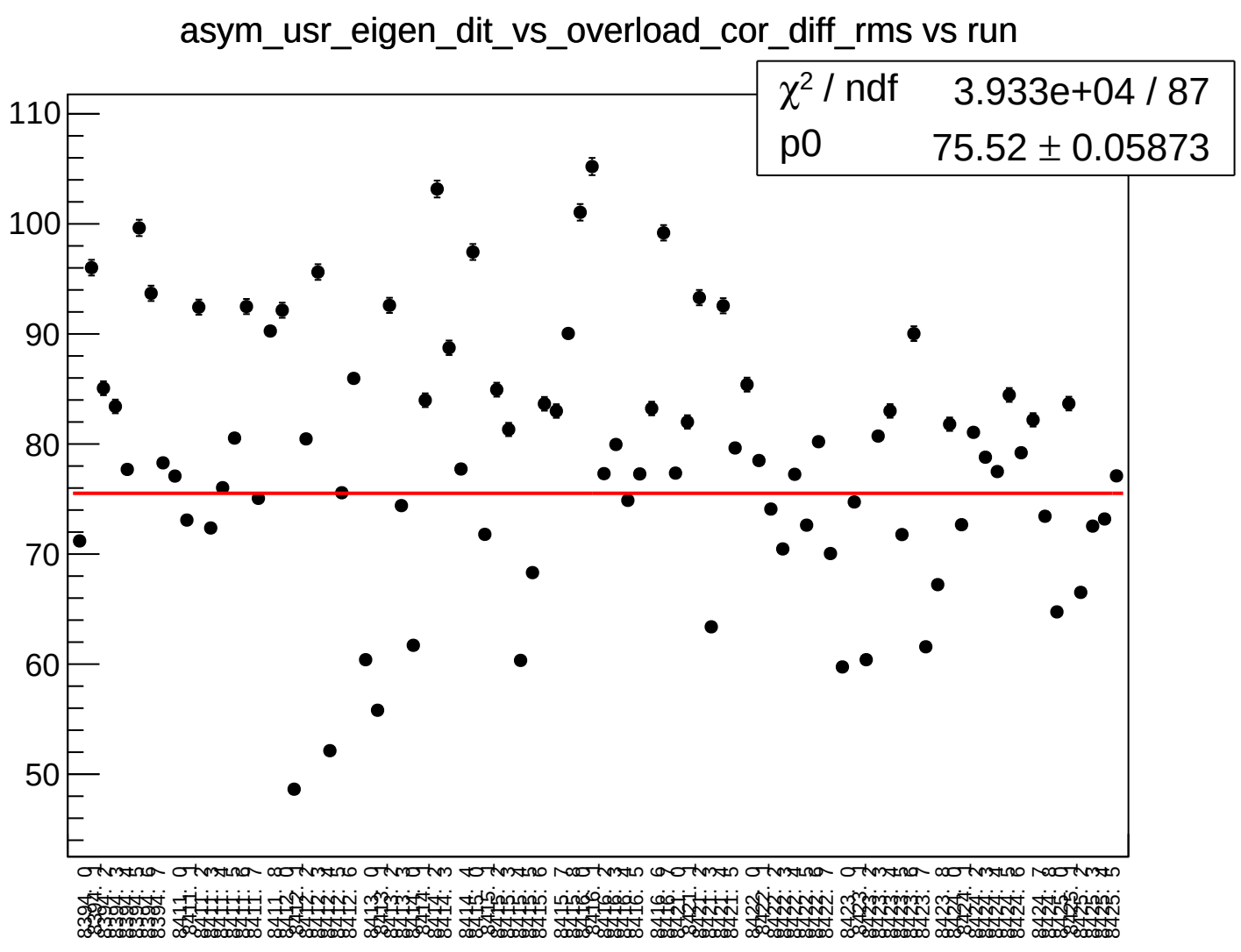

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.684e+04 / 87
p0 53.05 ± 0.04173
80
70
60
50
40
30

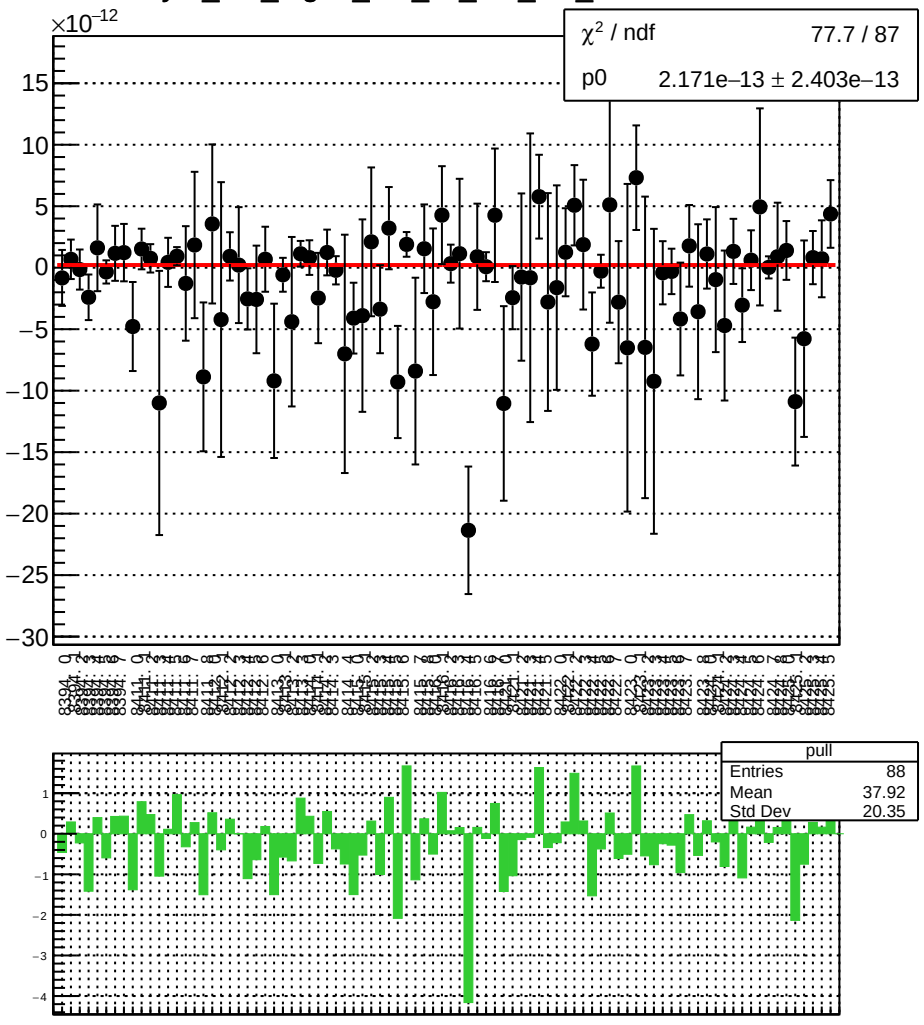

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.6 / 87
p0 0.0445 ± 0.05902
pull
Entries 88
Mean −101.4
Std Dev 0

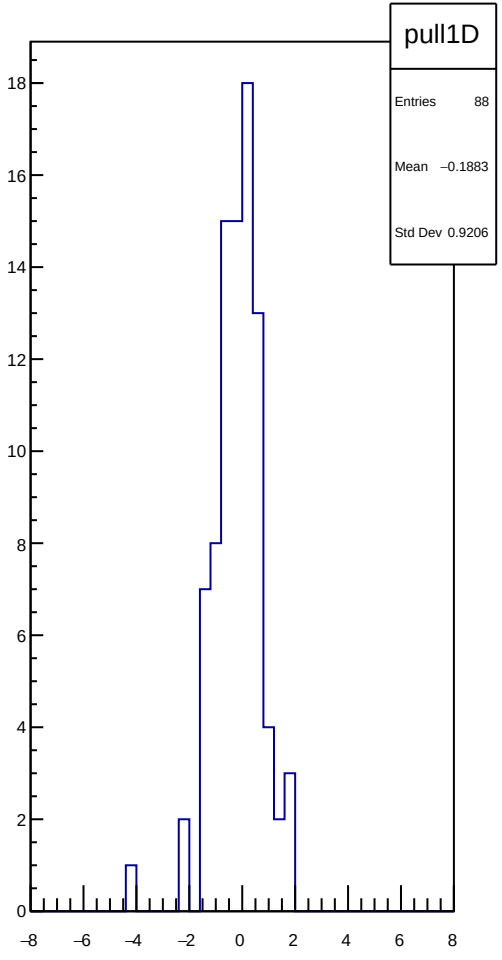

pull1D
Entries 88
Mean −0.02297
Std Dev 1.037

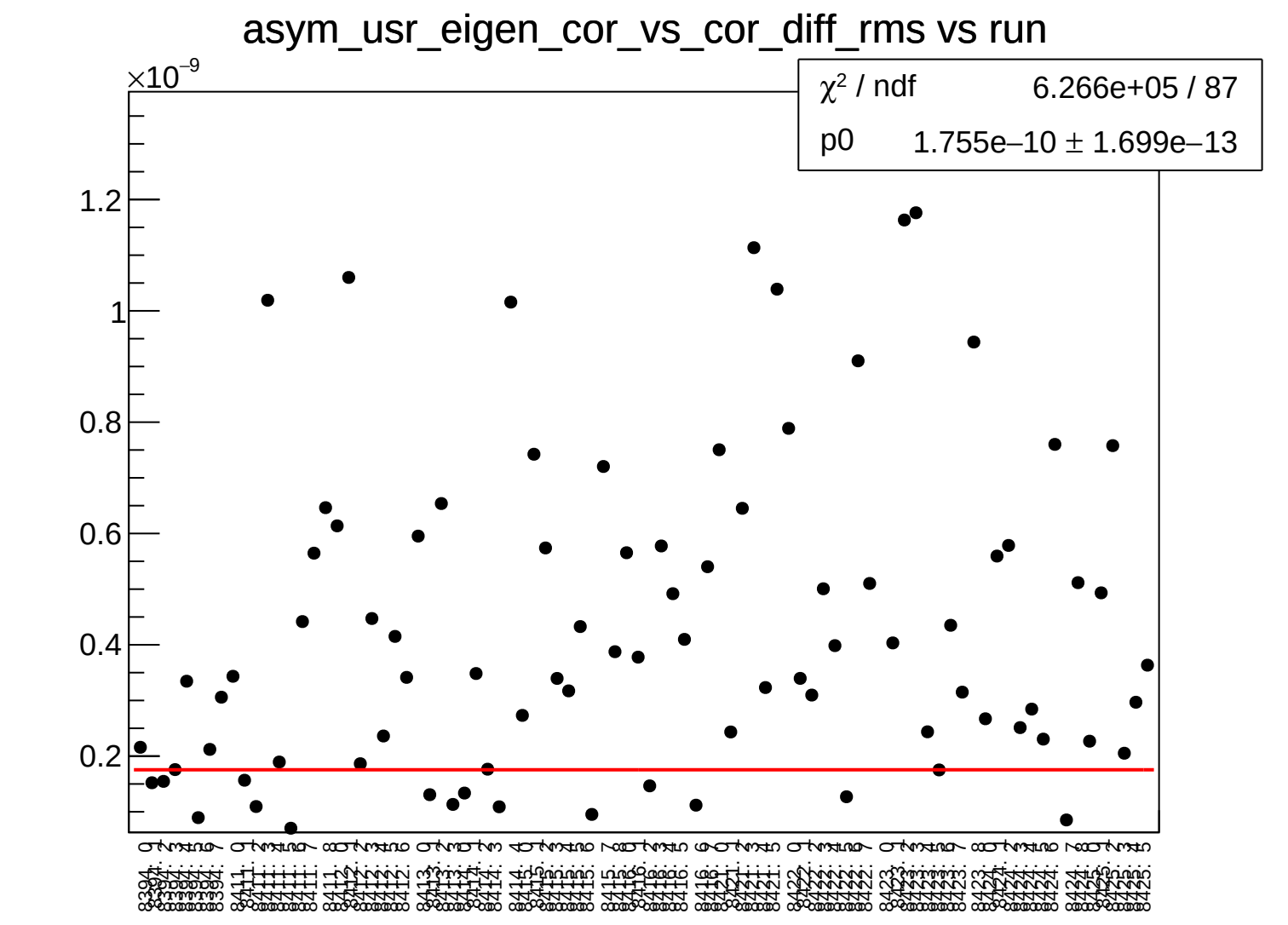

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.684e+04 / 87
p0 53.05 ± 0.04173
80
70
60
50
40
30

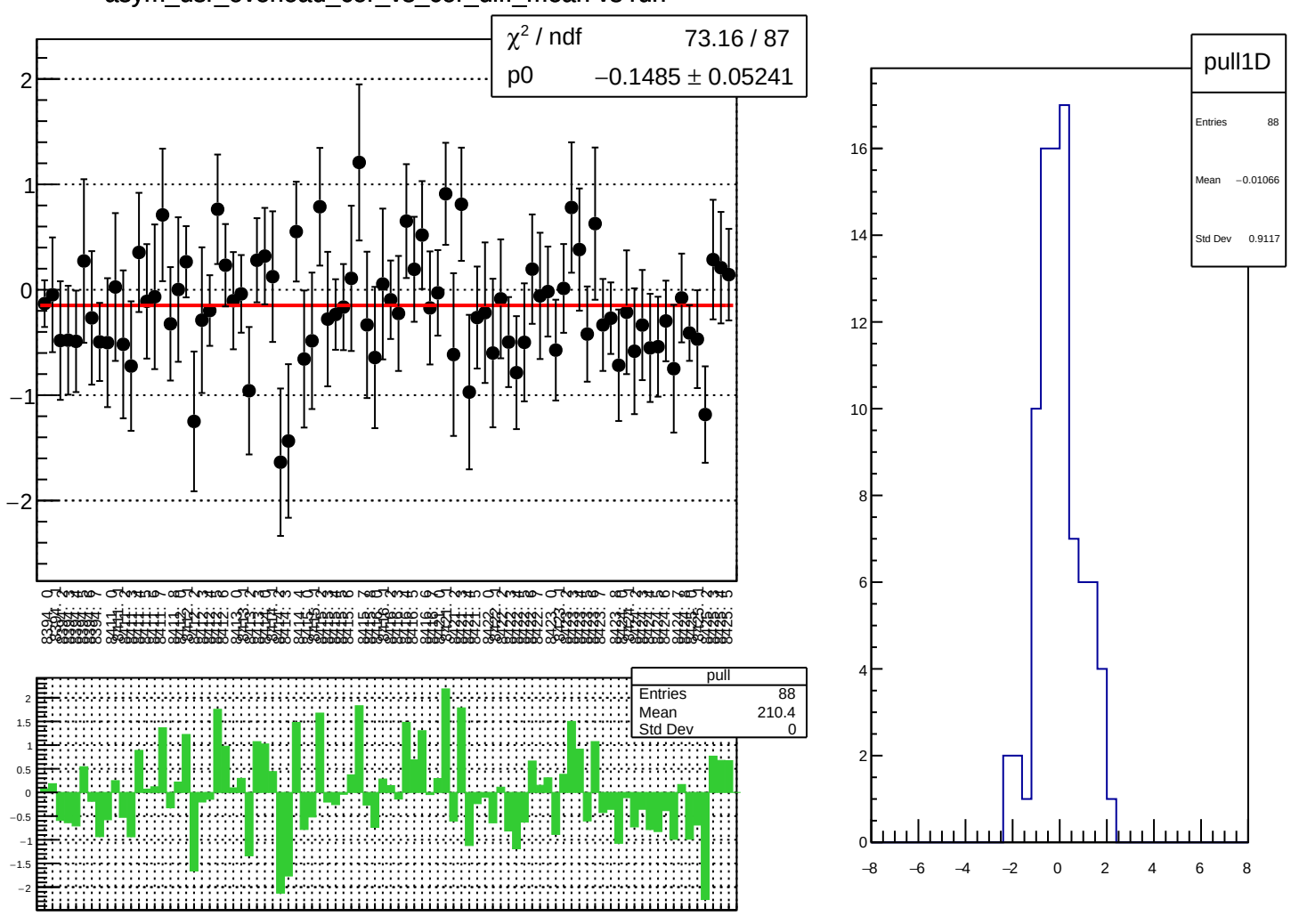

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 75.44 / 87
p0 0.1769 ± 0.08306
pull
Entries 88
Mean 861.4
Std Dev 0
pull1D
Entries 88
Mean 0.004082
Std Dev 0.9259

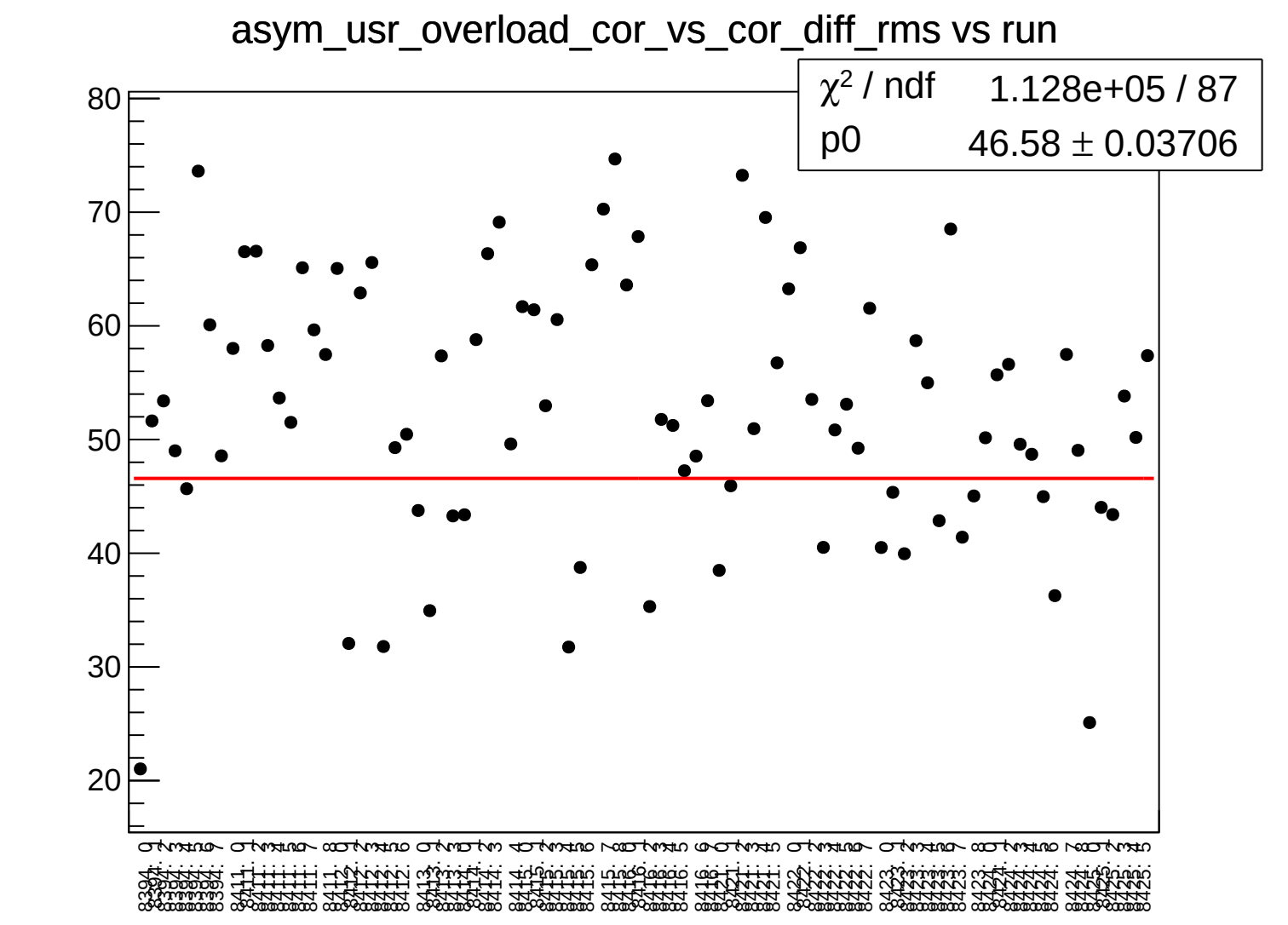

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.933e+04 / 87
p0 75.52 ± 0.05873
110
100
90
80
70
60
50

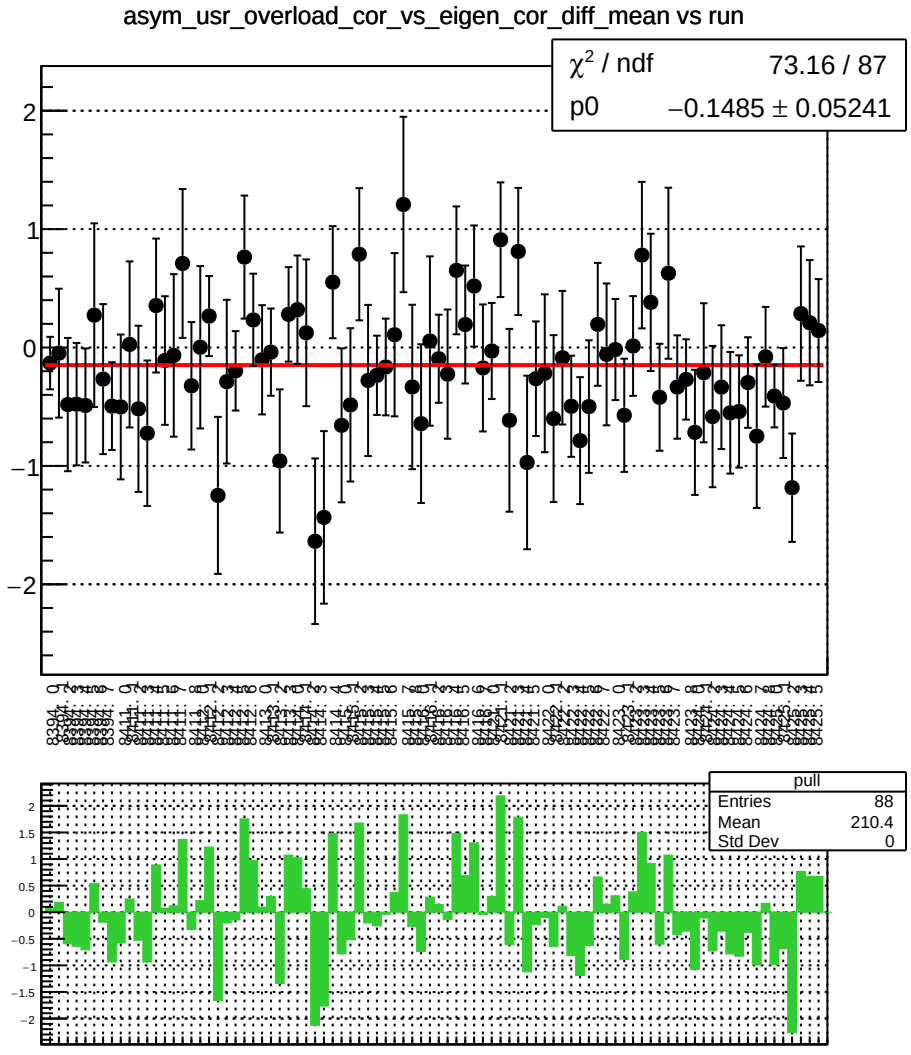

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.7 / 87
p0 2.171e−13 ± 2.403e−13
pull
Entries 88
Mean 37.92
Std Dev 20.35

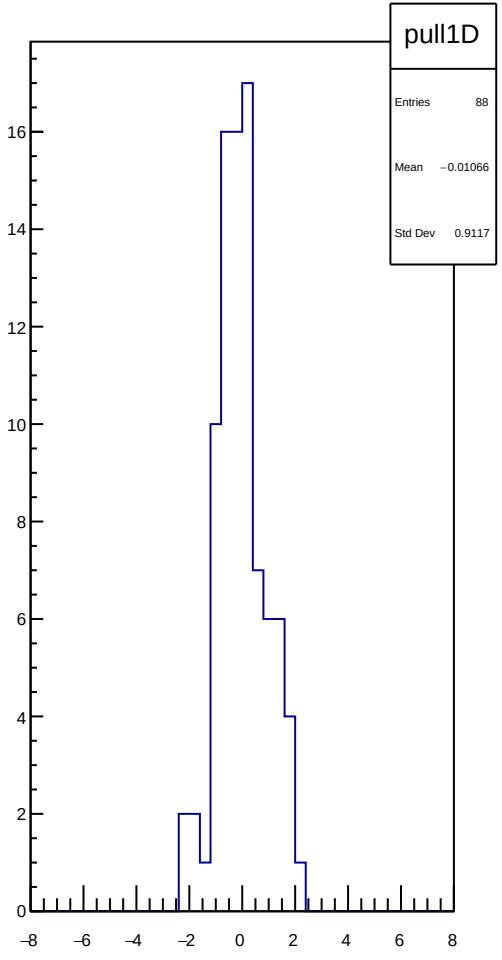

pull1D
Entries 88
Mean −0.1883
Std Dev 0.9206

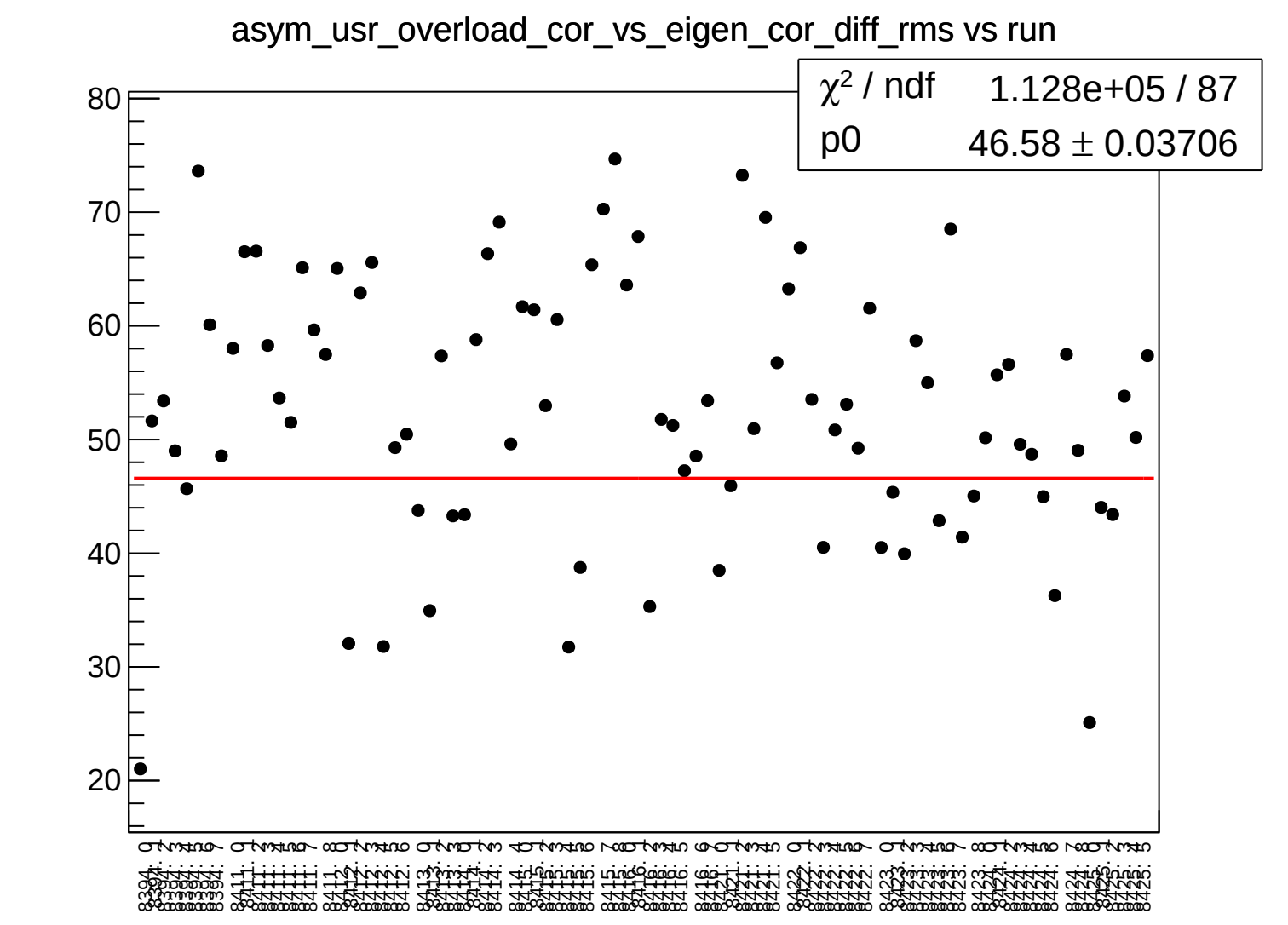

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.266e+05 / 87
p0 1.755e−10 ± 1.699e−13
1.2
1
0.8
0.6
0.4
0.2

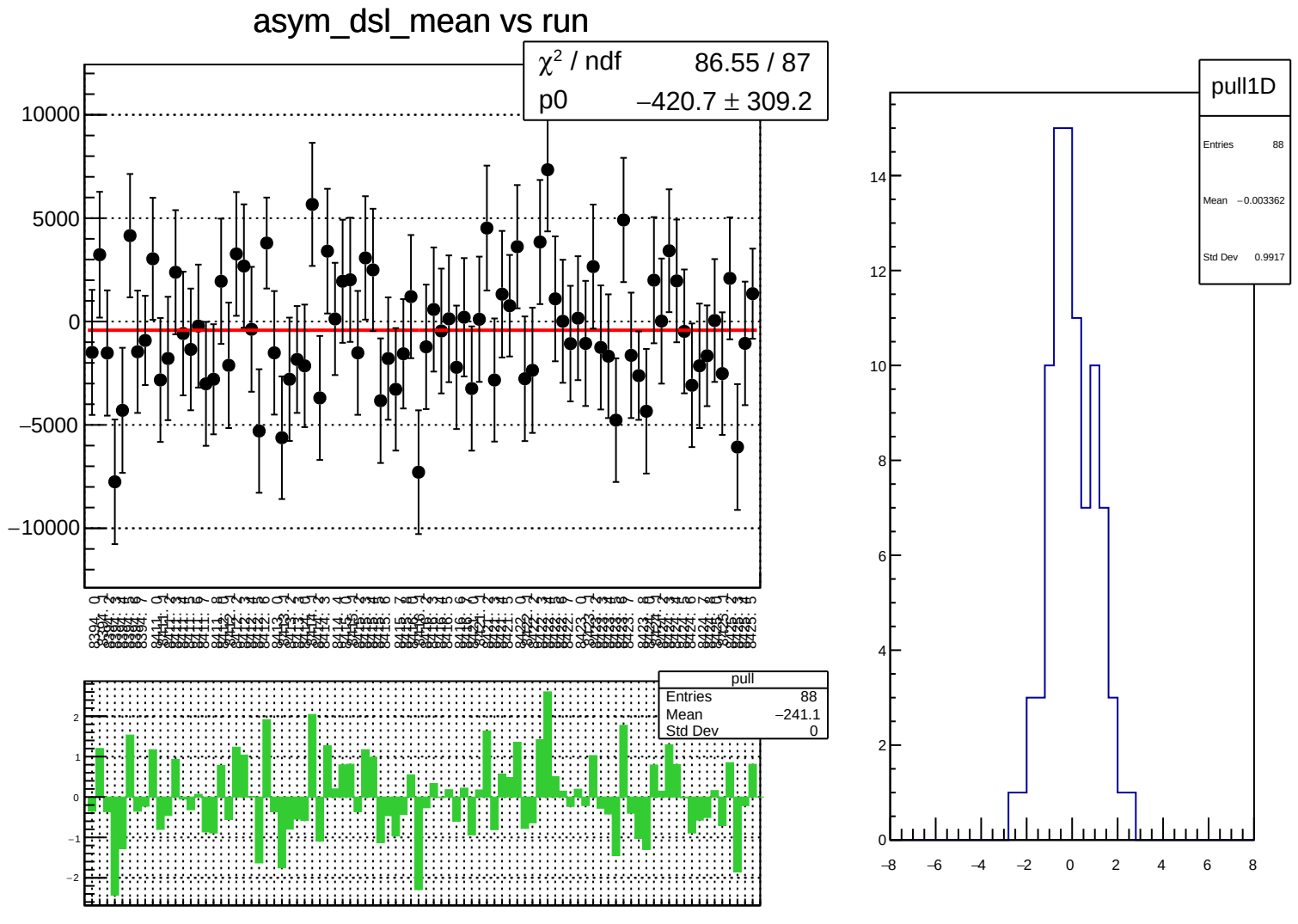

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 73.16 / 87
p0 −0.1485 ± 0.05241
pull
Entries 88
Mean 210.4
Std Dev 0
pull1D
Entries 88
Mean −0.01066
Std Dev 0.9117

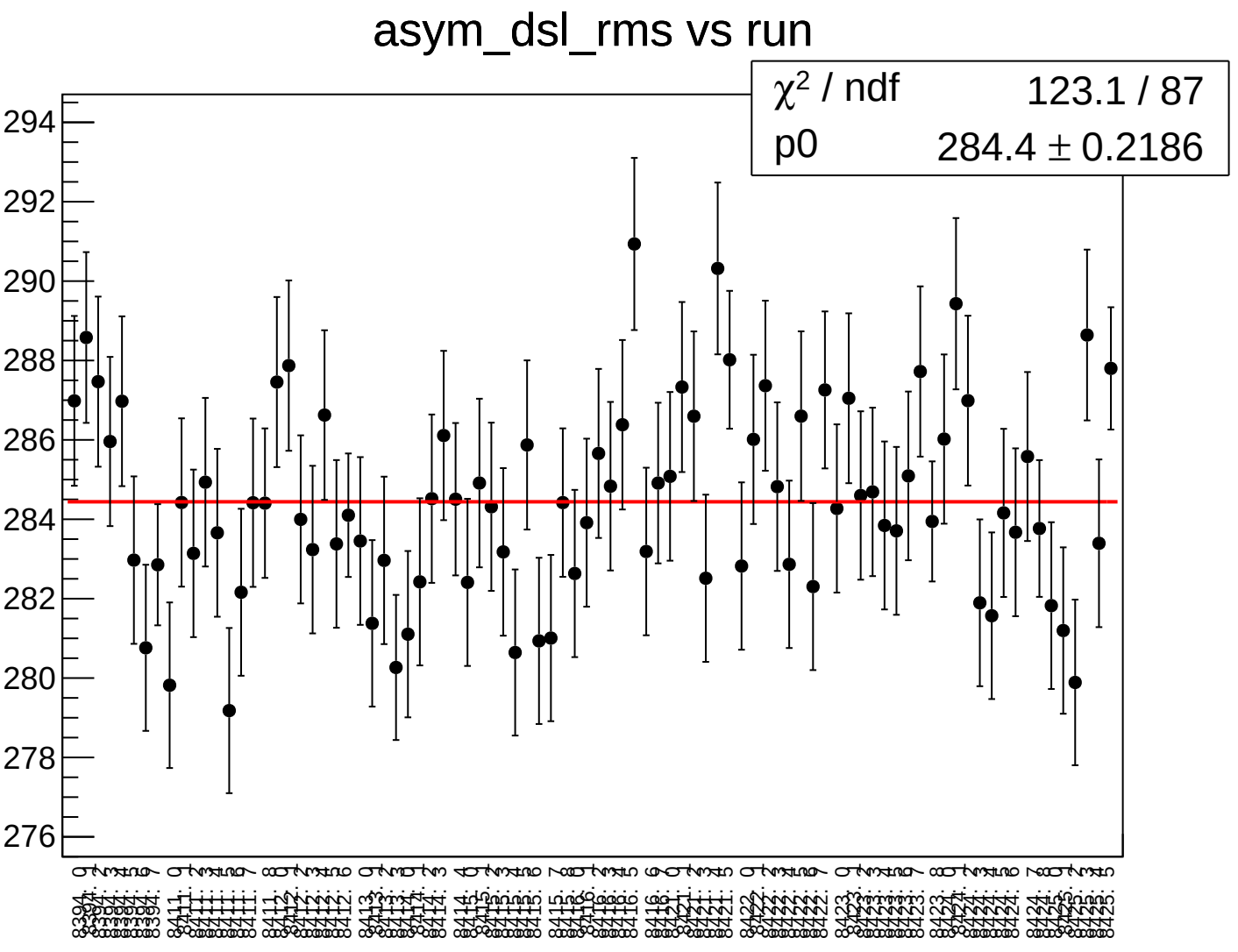

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.128e+05 / 87
p0 46.58 ± 0.03706
80
70
60
50
40
30
20

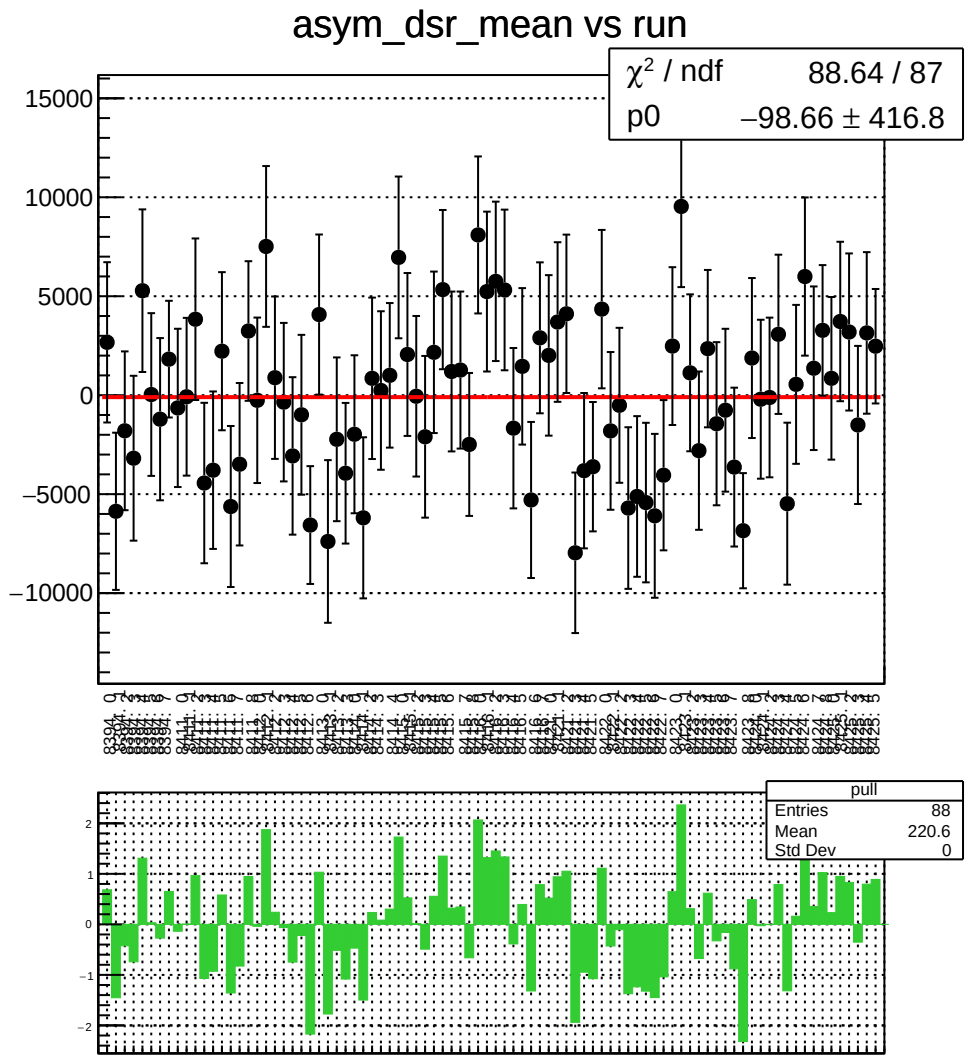

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.16 / 87
p0 −0.1485 ± 0.05241
pull
Entries 88
Mean 210.4
Std Dev 0

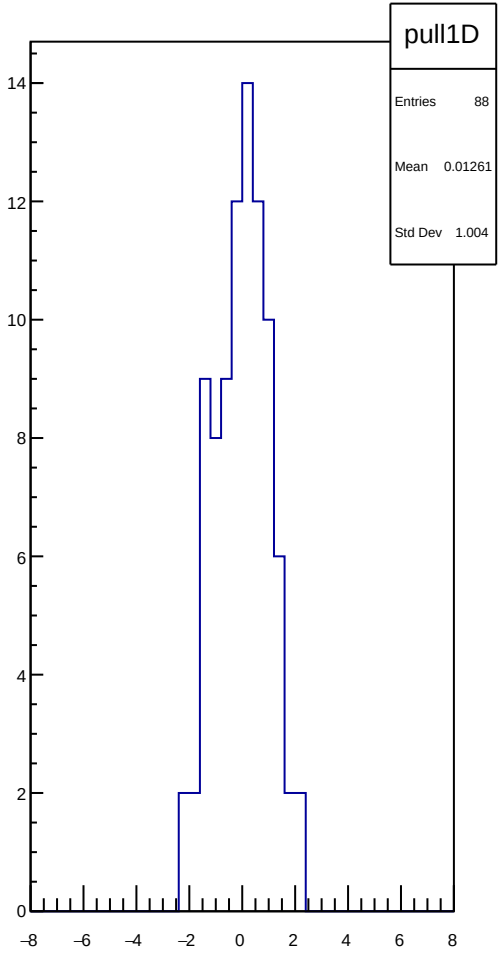

pull1D
Entries 88
Mean −0.01066
Std Dev 0.9117

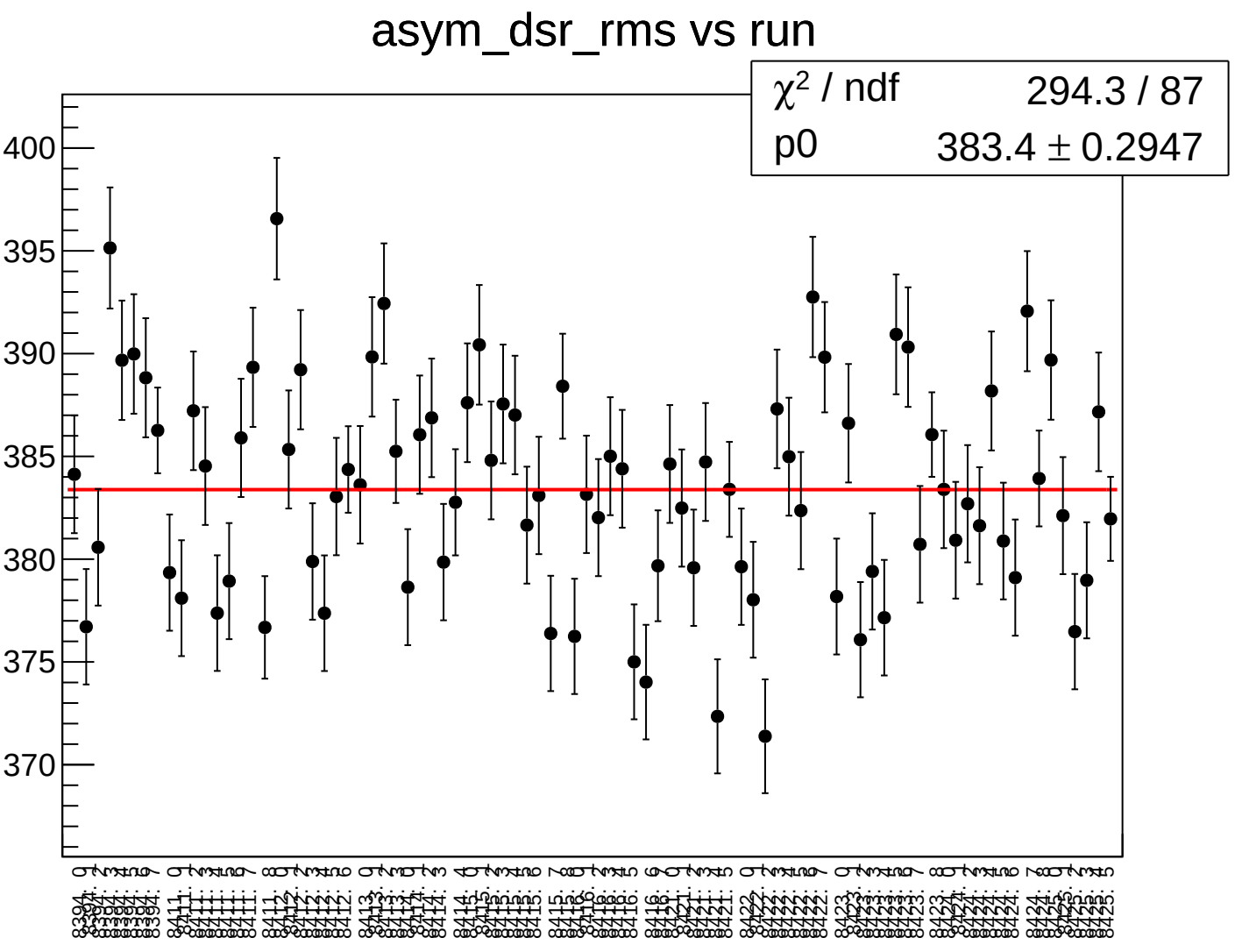

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.128e+05 / 87
p0 46.58 ± 0.03706
80
70
60
50
40
30
20

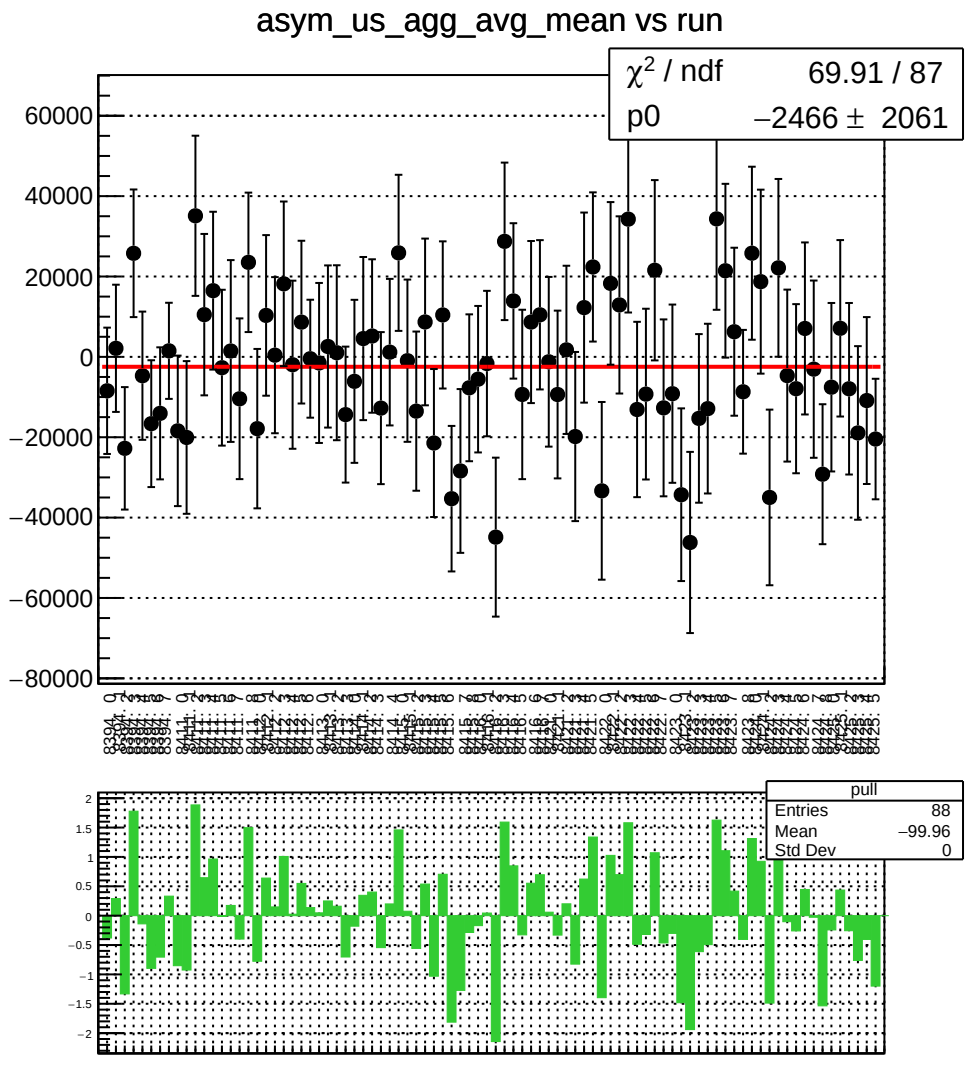

asym_dsl_mean vs run
χ² / ndf 86.55 / 87
p0 −420.7 ± 309.2
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −241.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.003362
Std Dev 0.9917
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

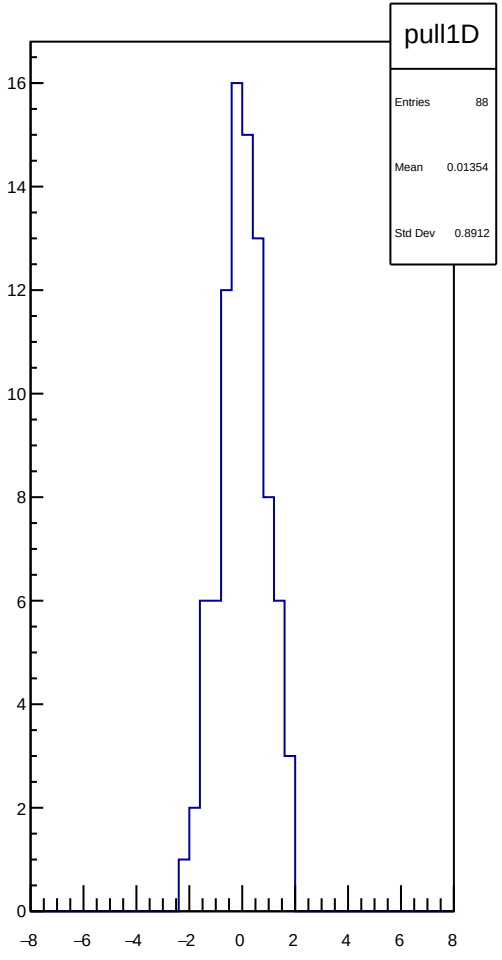

asym_dsl_rms vs run
χ^2 / ndf 123.1 / 87
p0 284.4 ± 0.2186
294
292
290
288
286
284
282
280
278
276

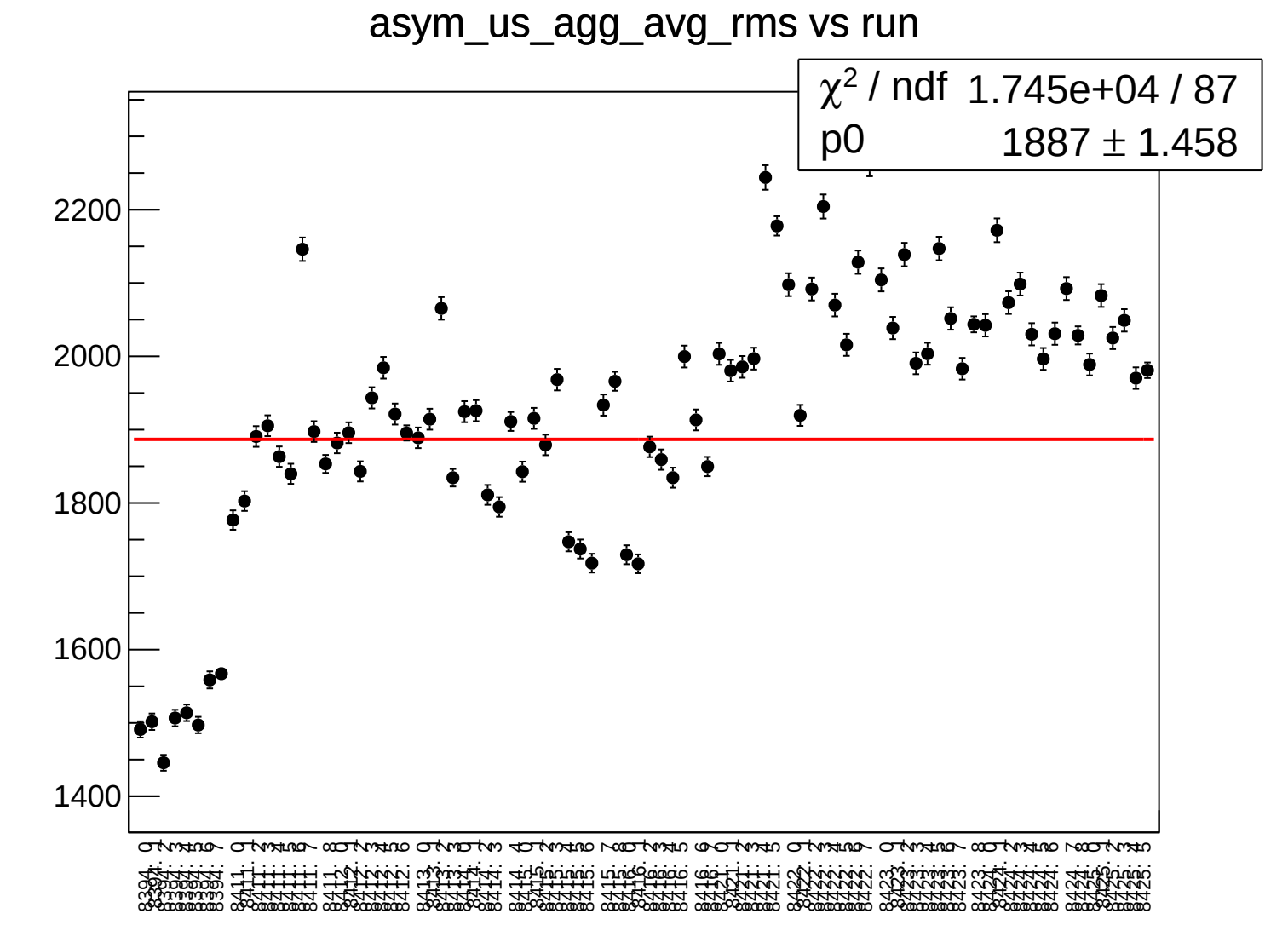

asym_dsr_mean vs run
χ² / ndf 88.64 / 87
p0 −98.66 ± 416.8
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 220.6
Std Dev 0
2
1
0
−1
−2

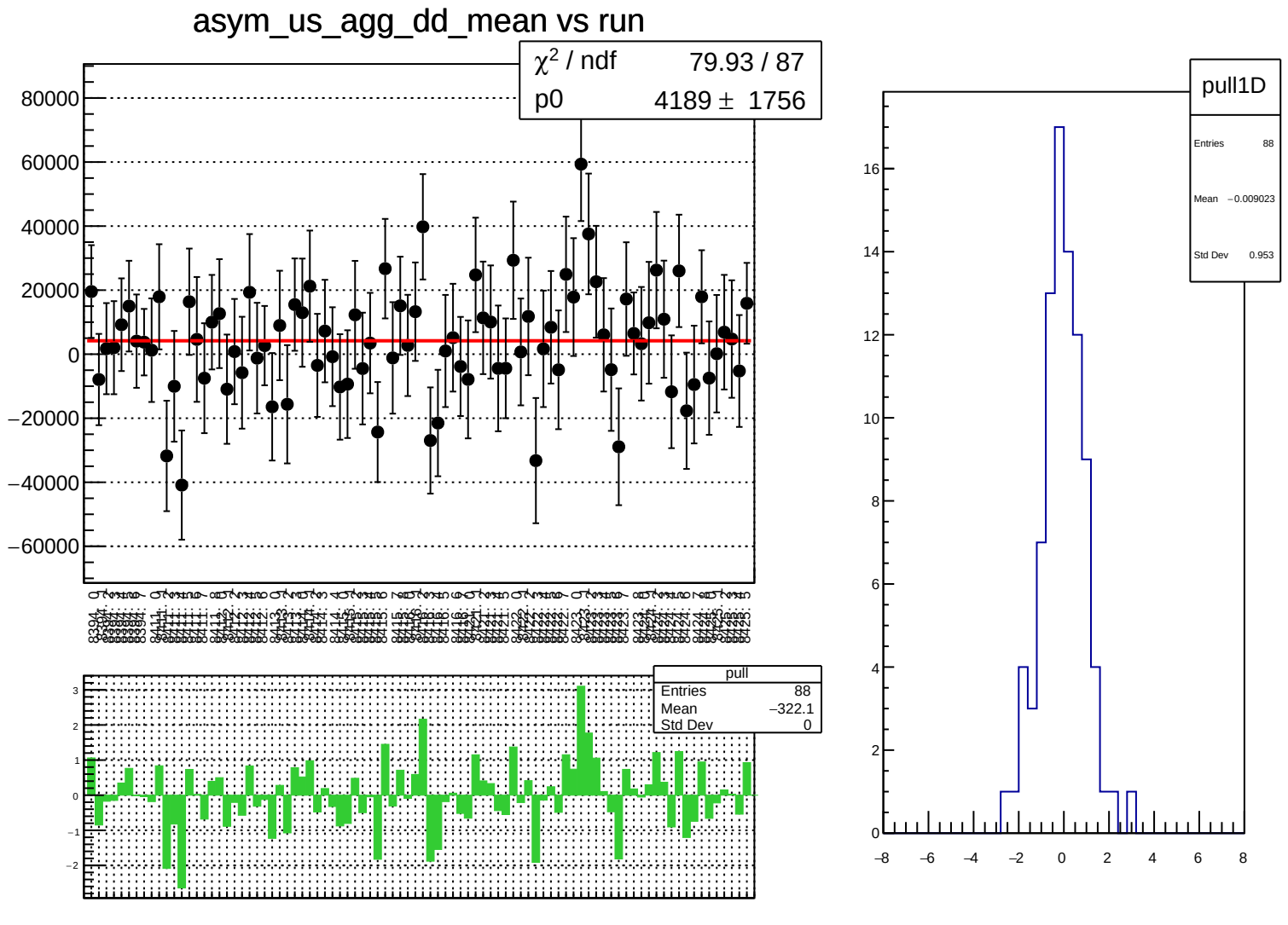

pull1D
Entries 88
Mean 0.01261
Std Dev 1.004
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

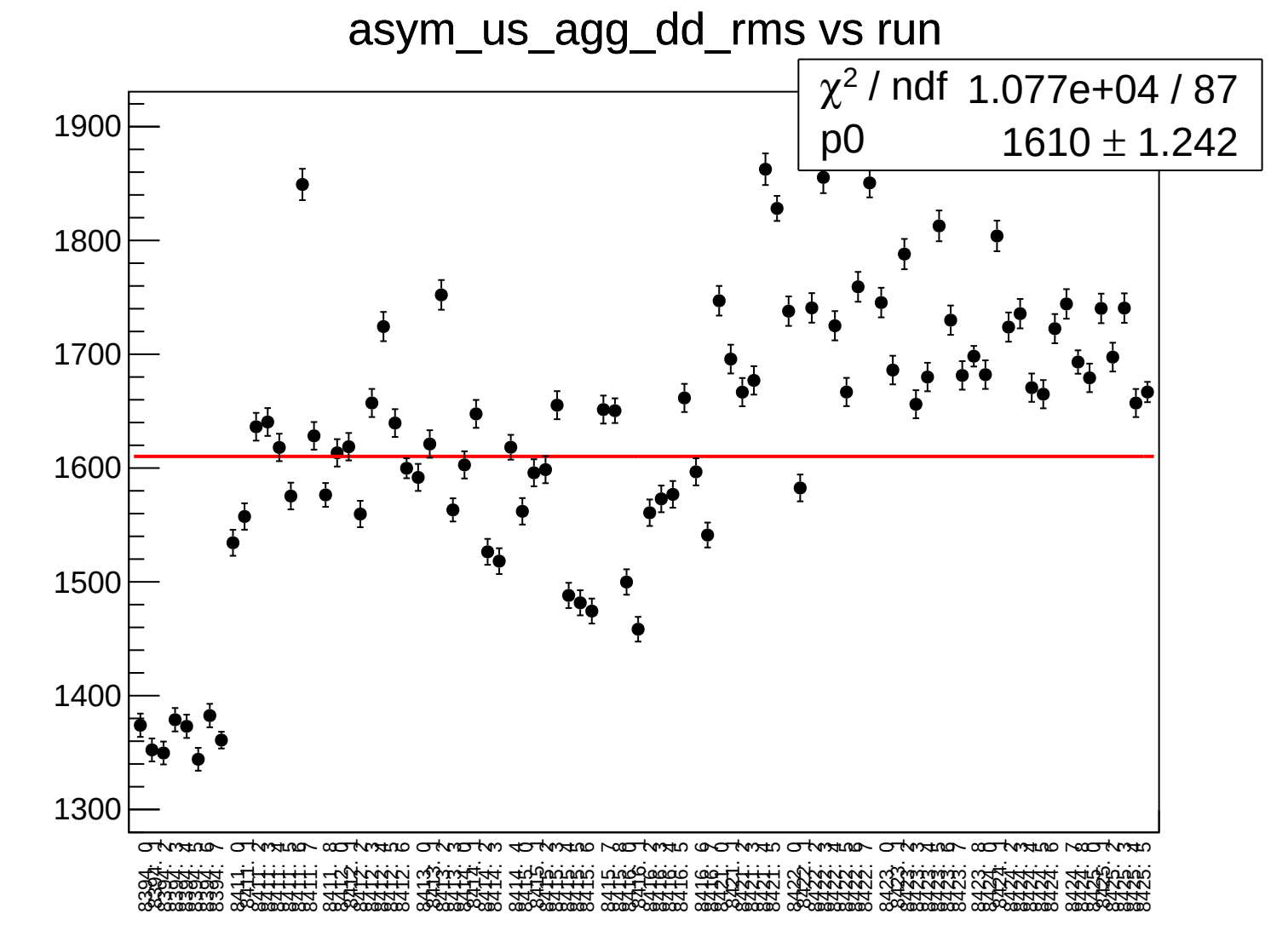

asym_dsr_rms vs run
χ² / ndf 294.3 / 87
p0 383.4 ± 0.2947
400
395
390
385
380
375
370

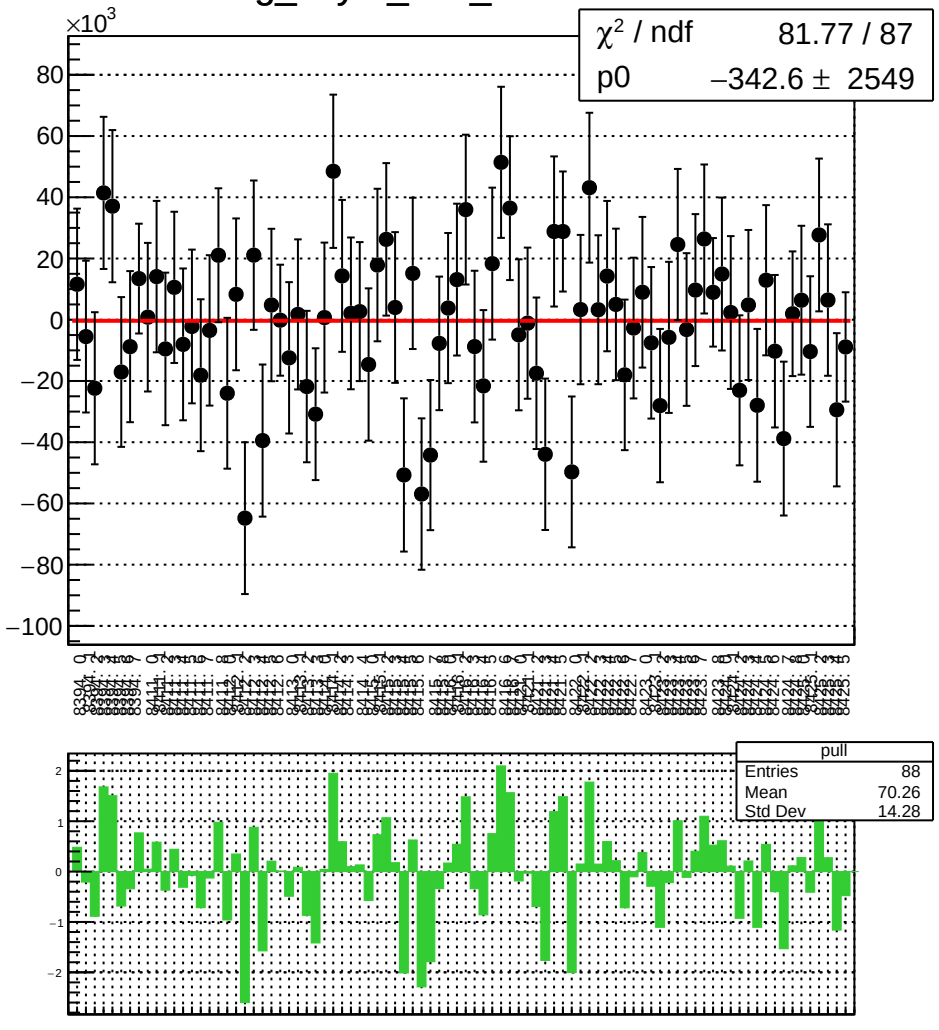

asym_us_agg_avg_mean vs run
χ² / ndf 69.91 / 87
p0 −2466 ± 2061
pull
Entries 88
Mean −99.96
Std Dev 0

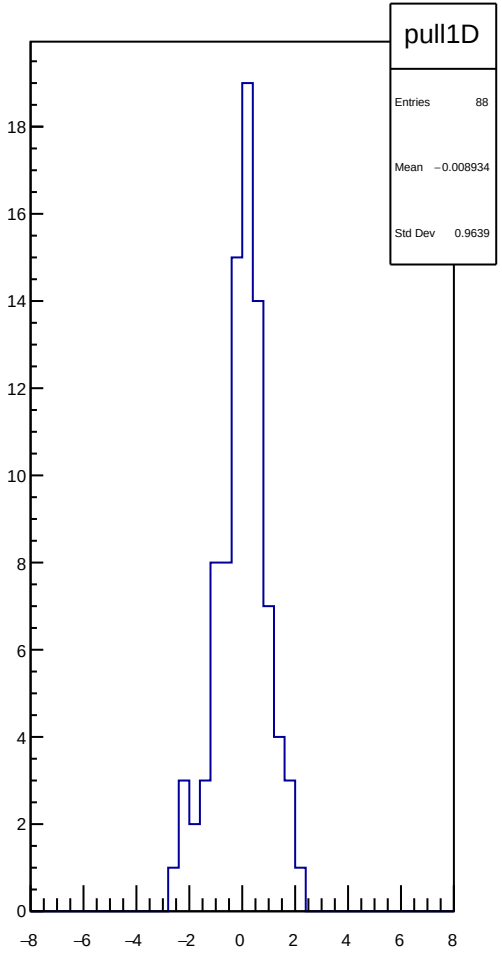

pull1D
Entries 88
Mean 0.01354
Std Dev 0.8912

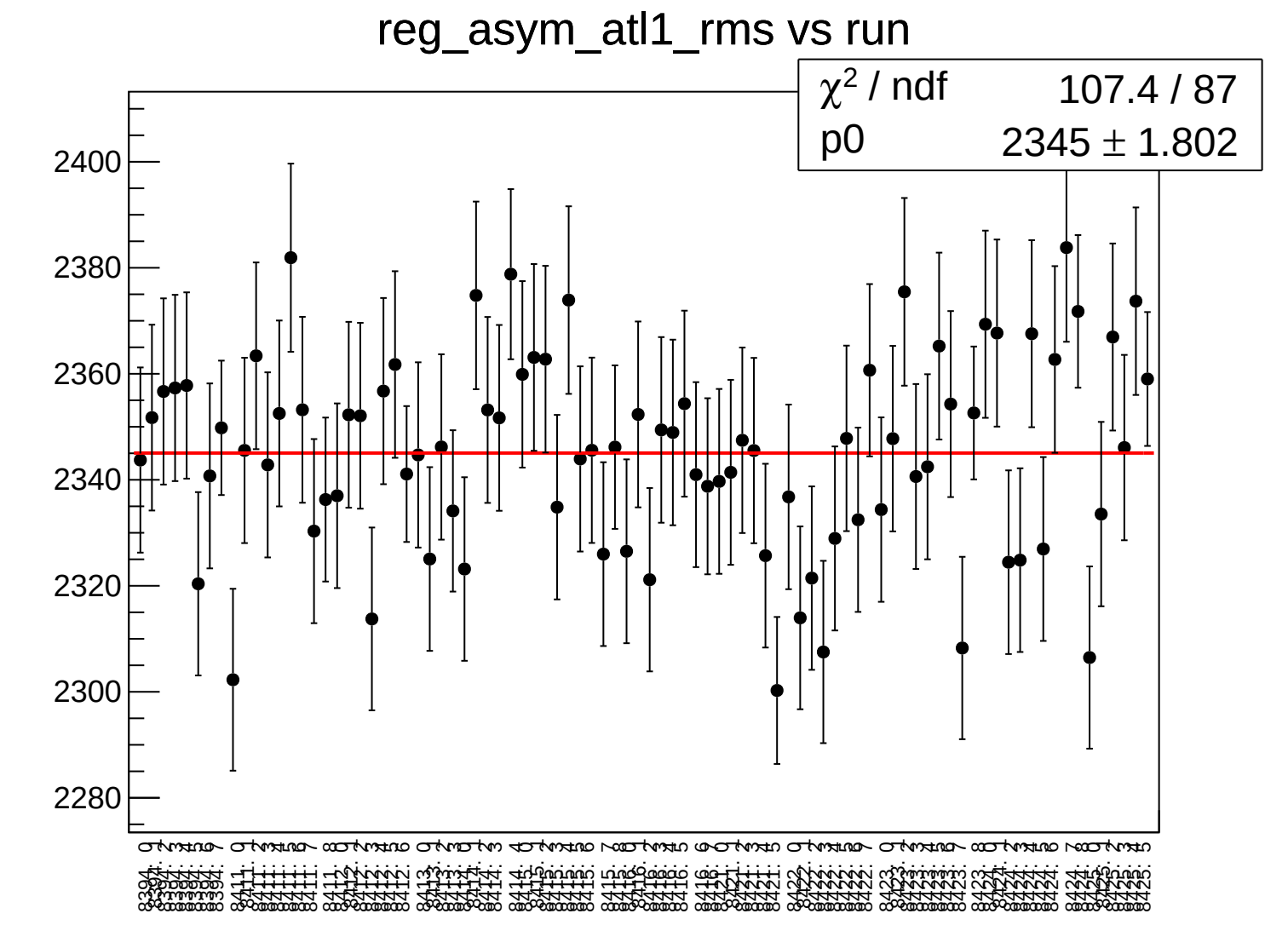

asym_us_agg_avg_rms vs run
χ^2 / ndf 1.745e+04 / 87
p0 1887 ± 1.458
2200
2000
1800
1600
1400

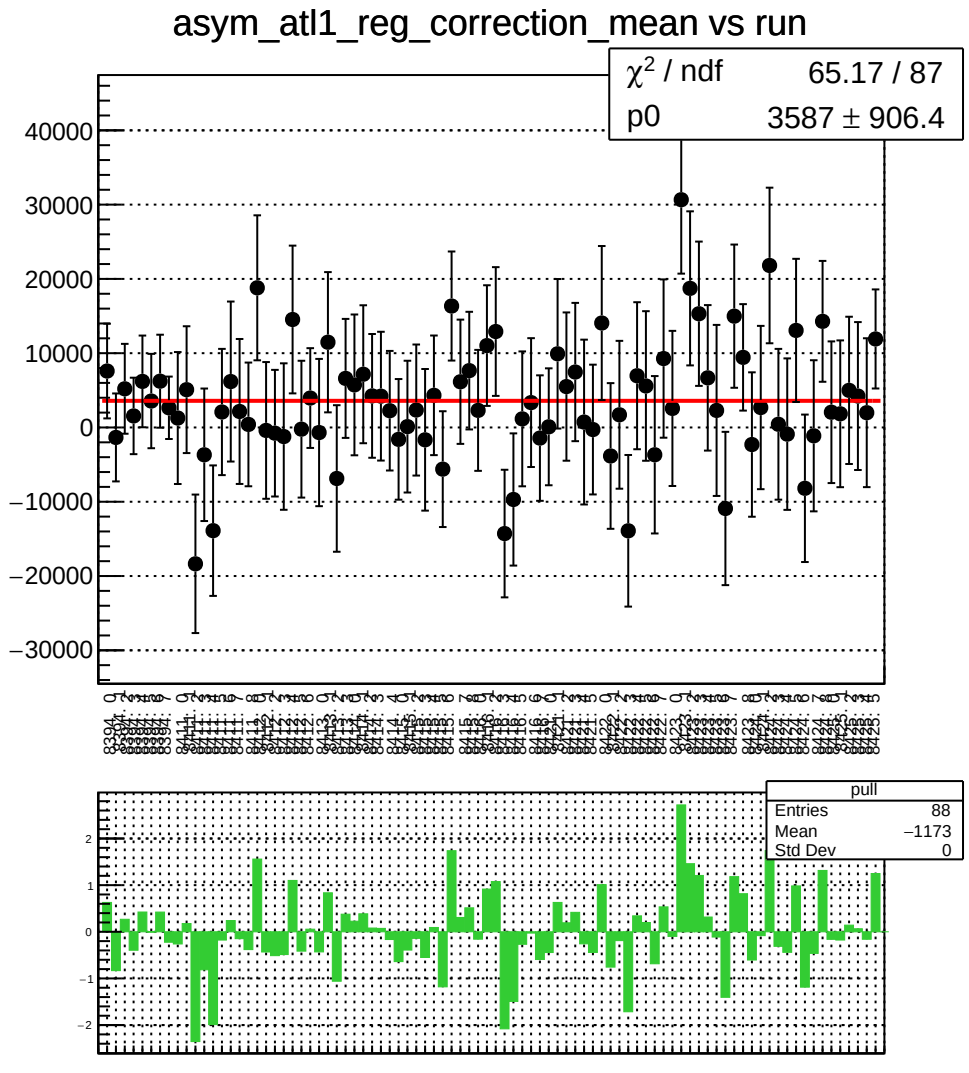

asym_us_agg_dd_mean vs run
χ² / ndf 79.93 / 87
p0 4189 ± 1756
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −322.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.009023
Std Dev 0.953
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

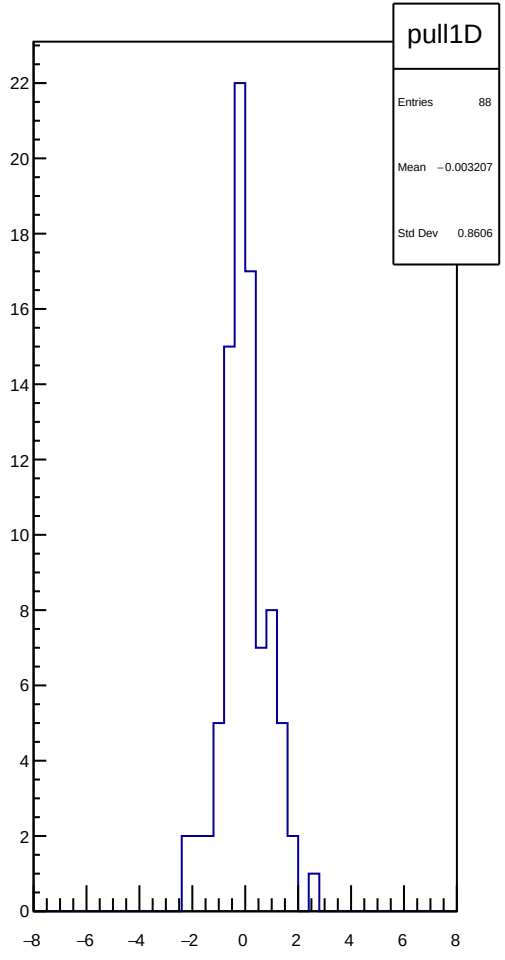

asym_us_agg_dd_rms vs run
χ² / ndf 1.077e+04 / 87
p0 1610 ± 1.242
1900
1800
1700
1600
1500
1400
1300

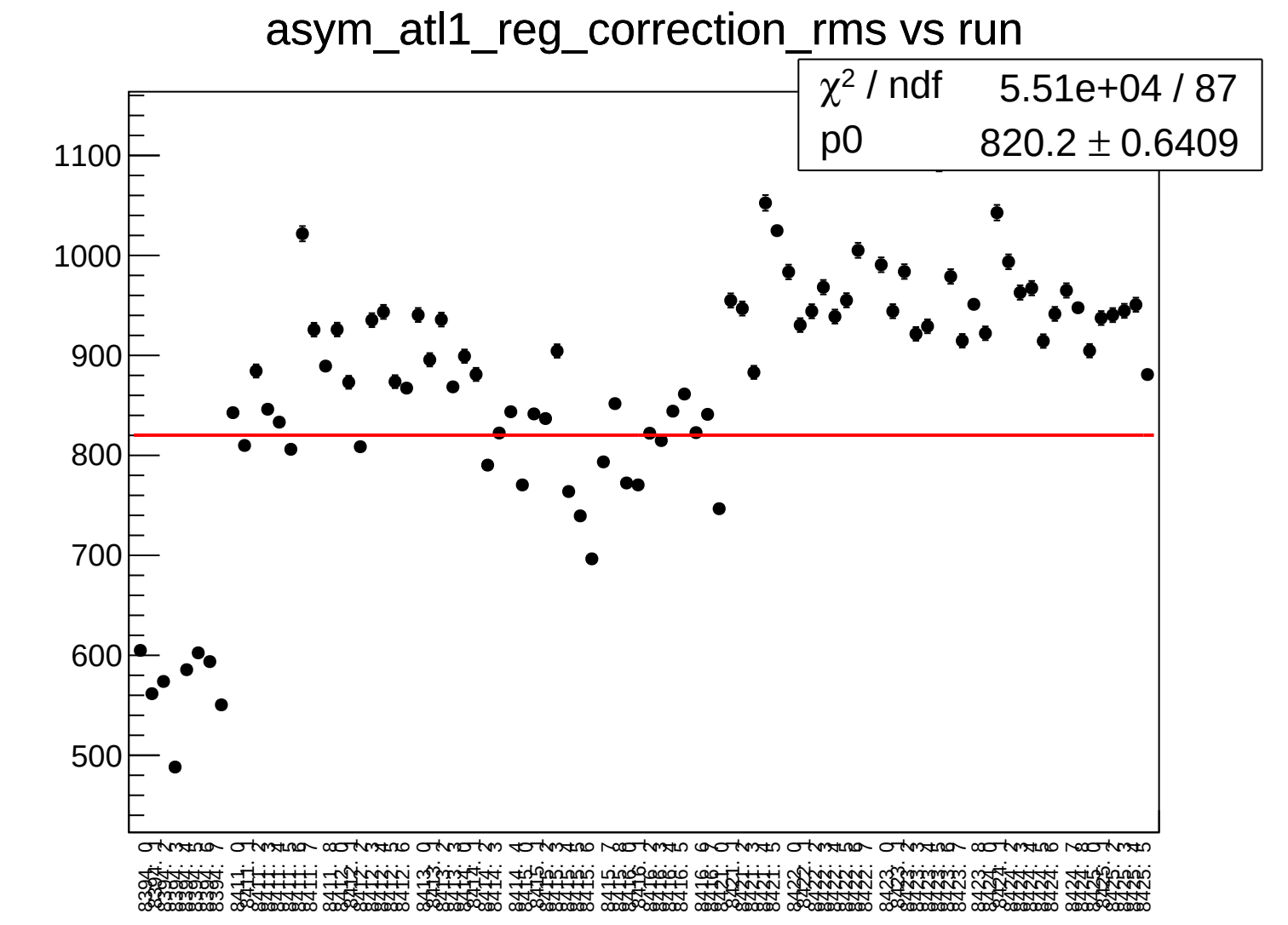

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 81.77 / 87
p0 −342.6 ± 2549
pull
Entries 88
Mean 70.26
Std Dev 14.28

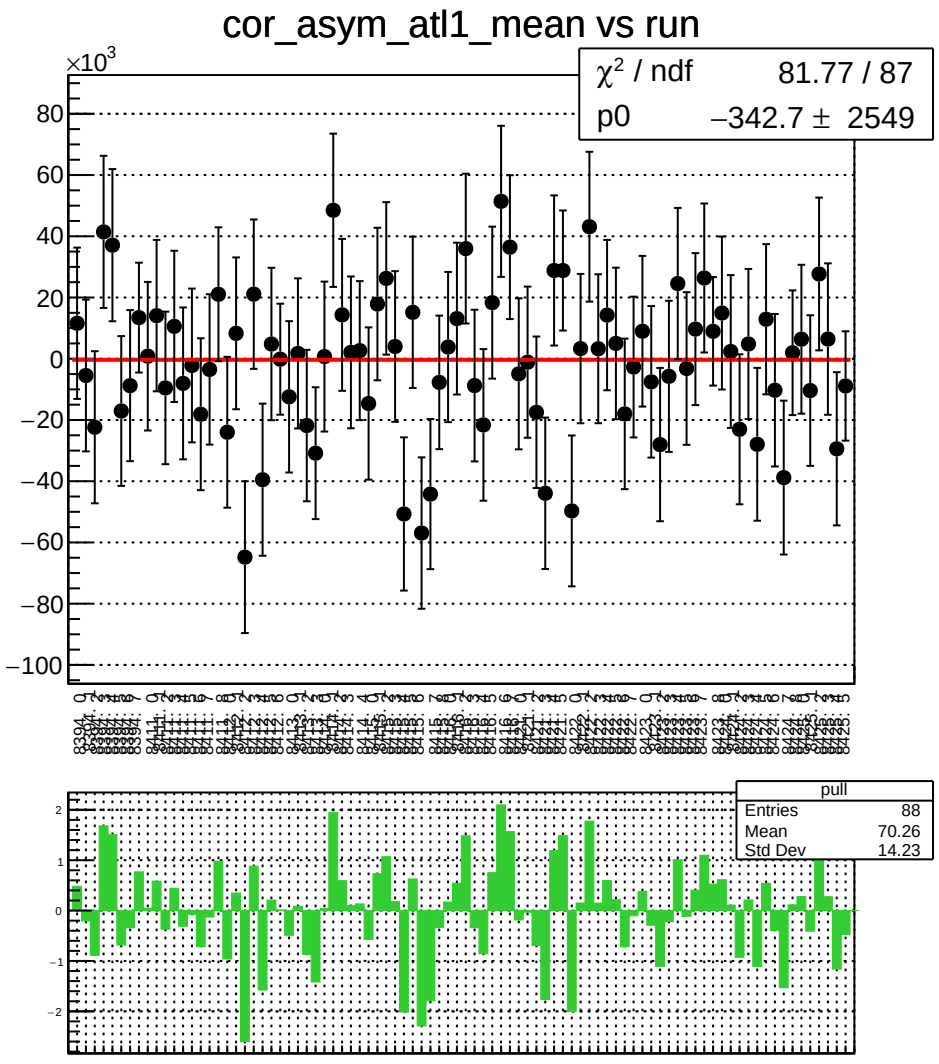

pull1D
Entries 88
Mean −0.008934
Std Dev 0.9639

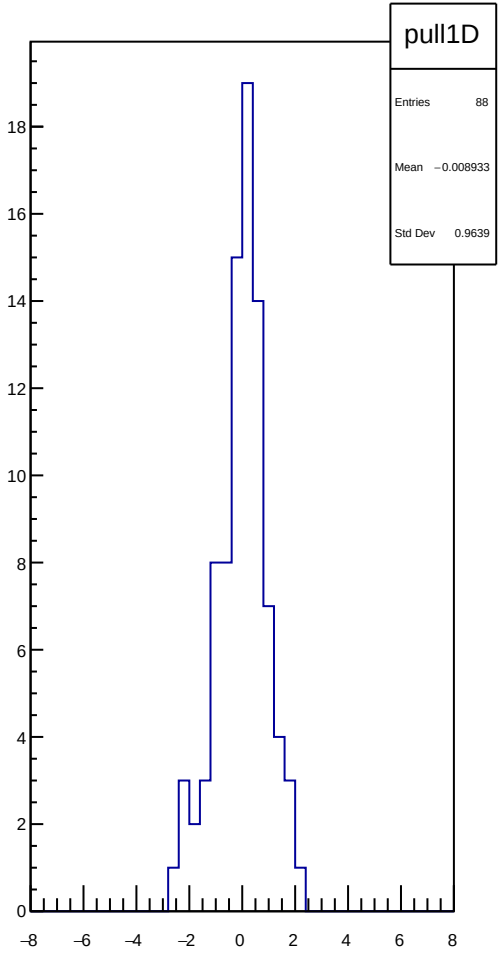

reg_asym_atl1_rms vs run
χ^2 / ndf 107.4 / 87
p0 2345 ± 1.802
2400
2380
2360
2340
2320
2300
2280

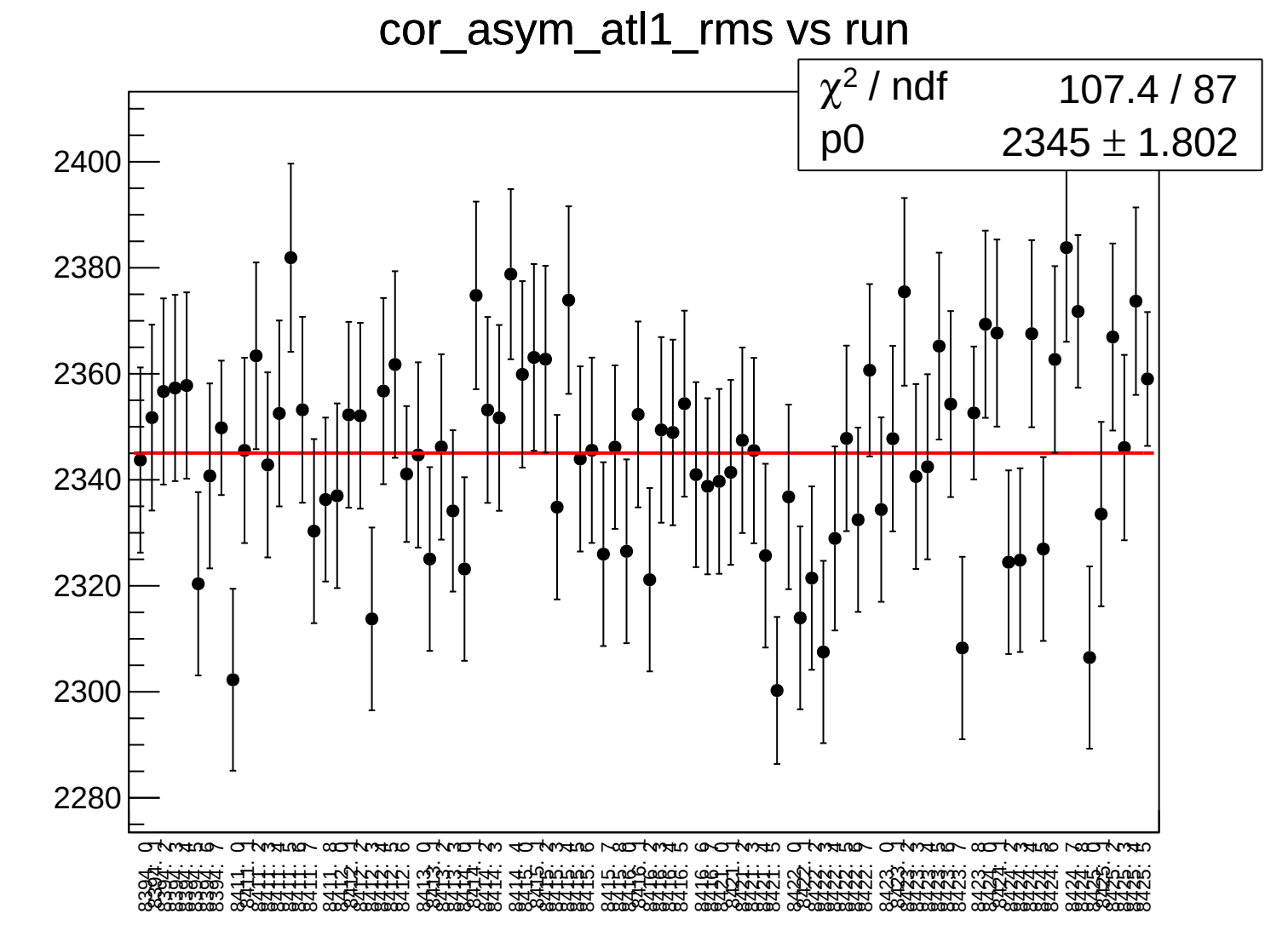

asym_atl1_reg_correction_mean vs run
χ² / ndf 65.17 / 87
p0 3587 ± 906.4
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −1173
Std Dev 0
2
1
0
−1
−2

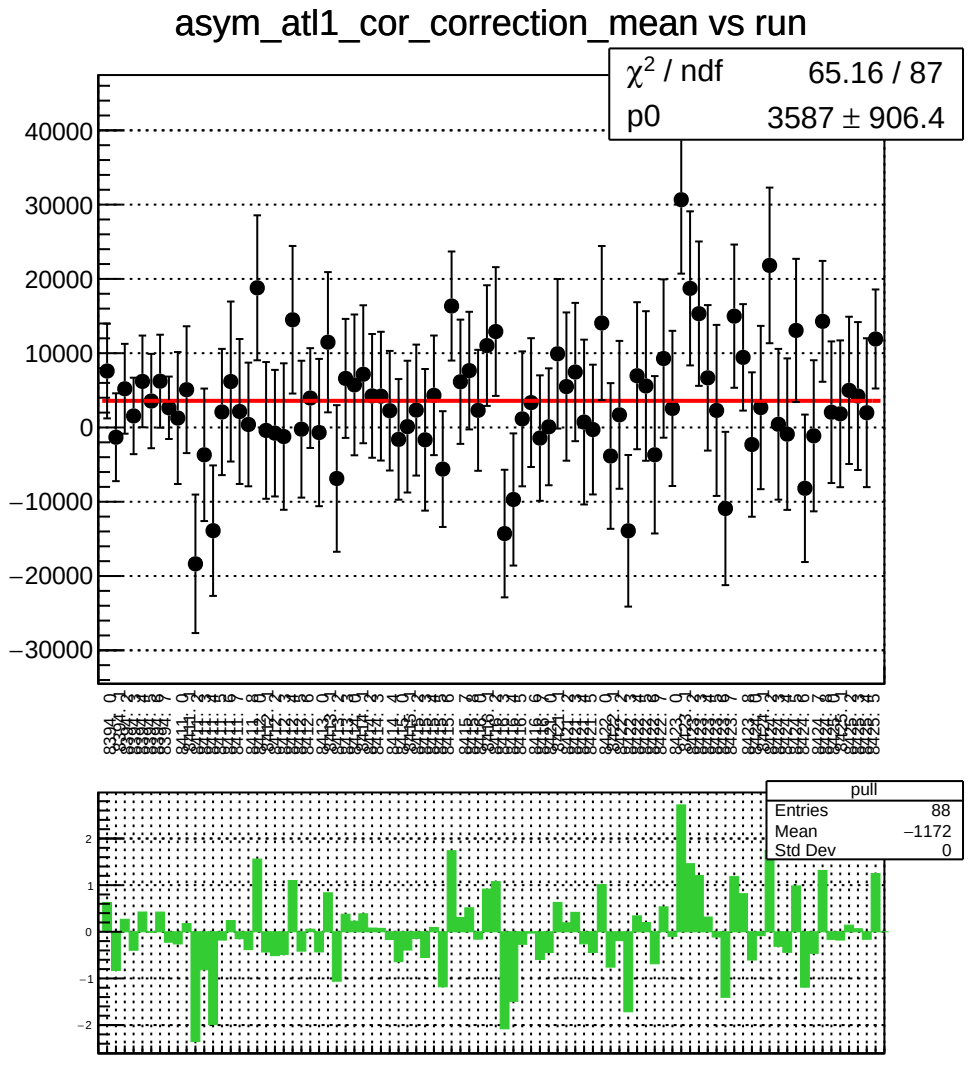

pull1D
Entries 88
Mean −0.003207
Std Dev 0.8606
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

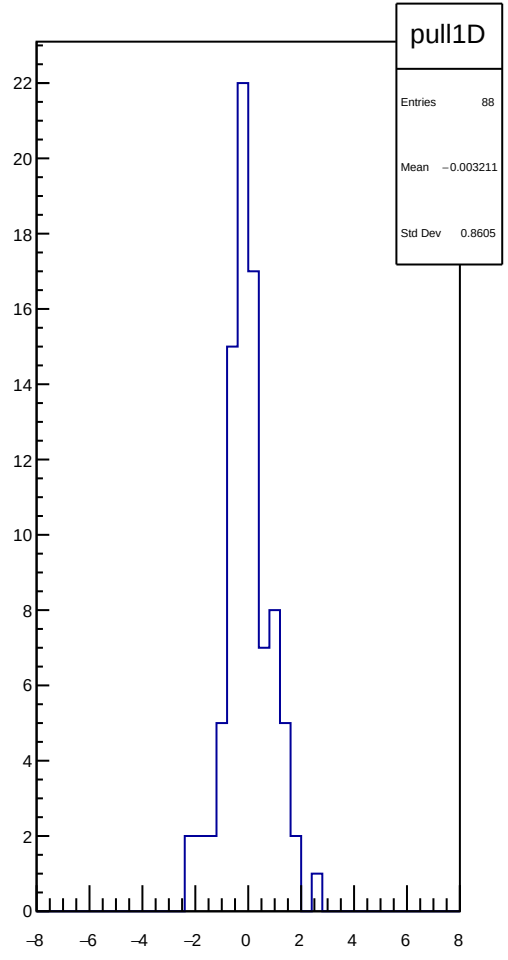

asym_atl1_reg_correction_rms vs run
χ² / ndf 5.51e+04 / 87
p0 820.2 ± 0.6409
1100
1000
900
800
700
600
500

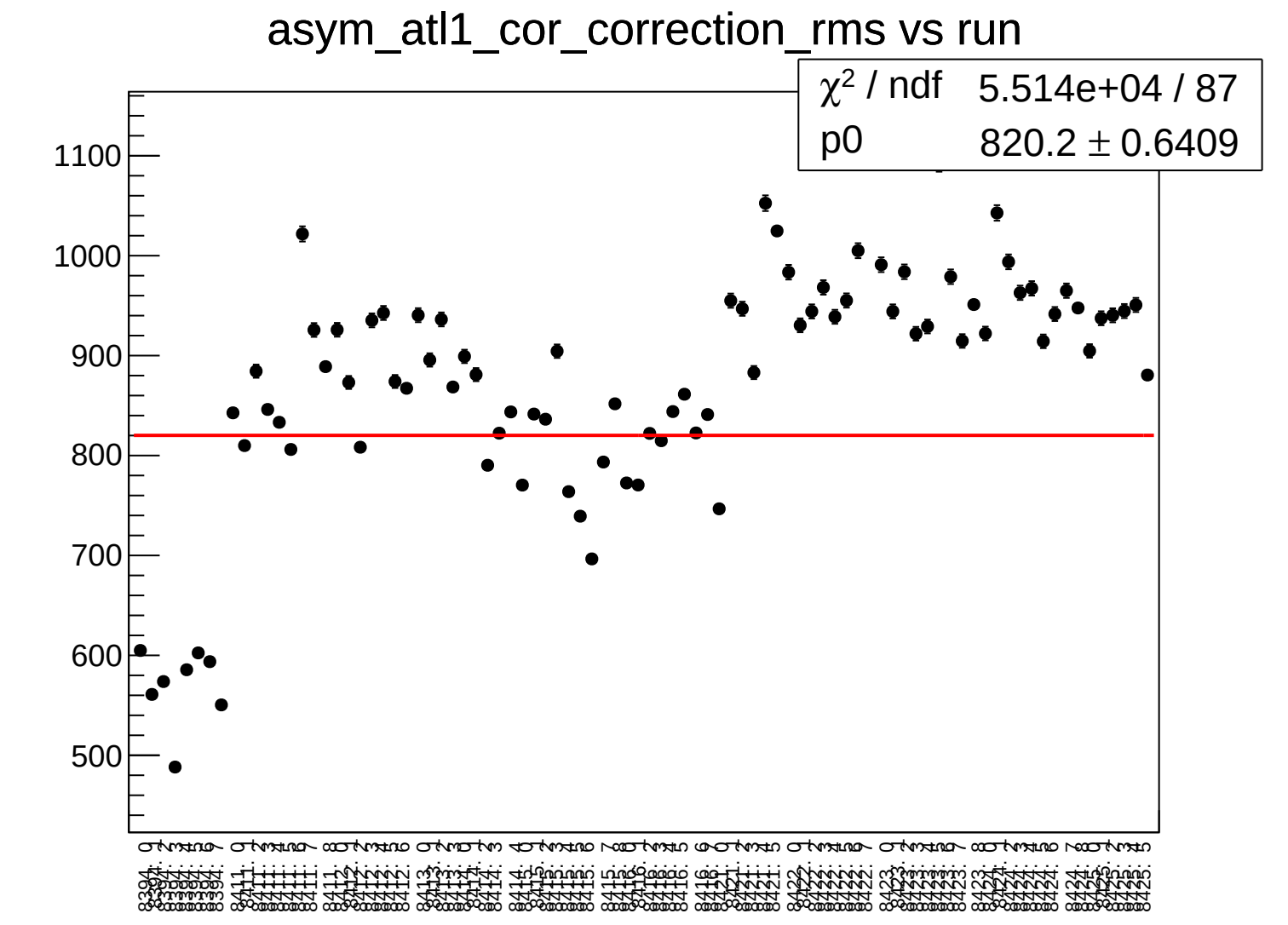

cor_asym_atl1_mean vs run
×10^3
χ² / ndf 81.77 / 87
p0 −342.7 ± 2549
pull
Entries 88
Mean 70.26
Std Dev 14.23

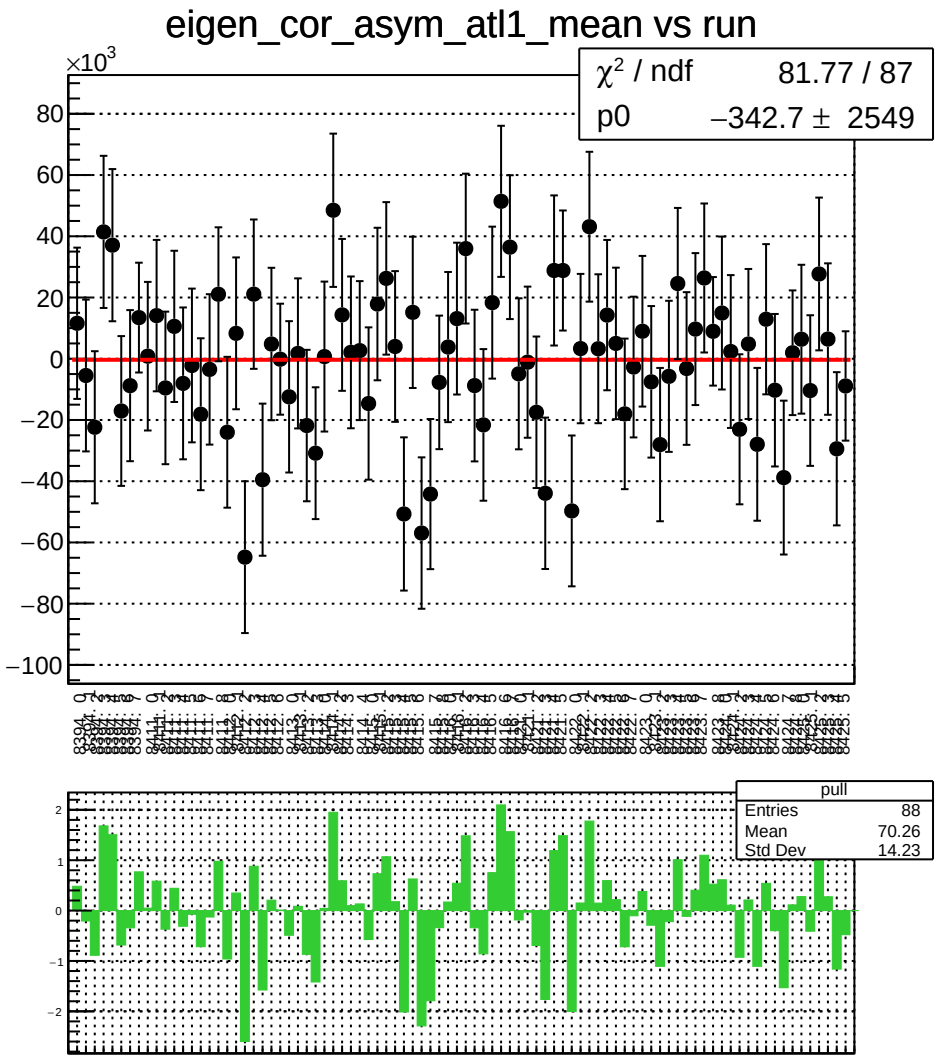

pull1D
Entries 88
Mean −0.008933
Std Dev 0.9639

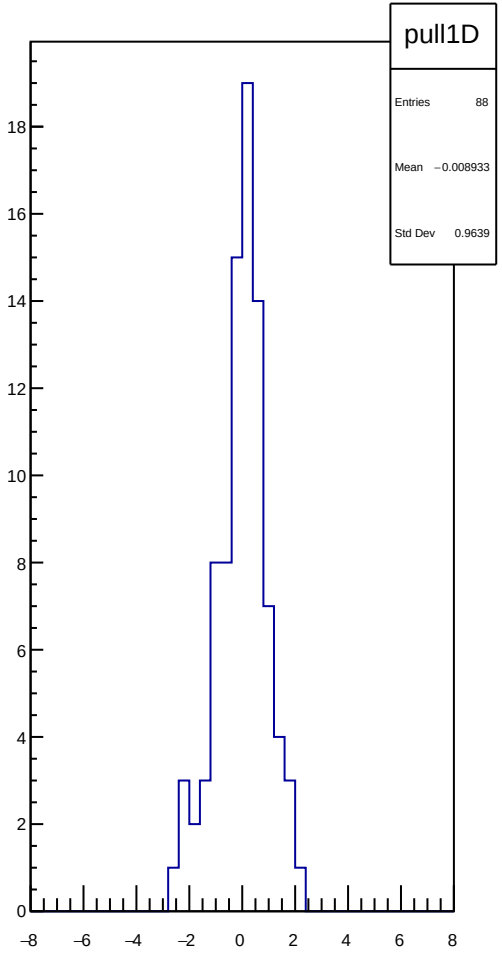

cor_asym_atl1_rms vs run
χ^2 / ndf 107.4 / 87
p0 2345 ± 1.802
2400
2380
2360
2340
2320
2300
2280

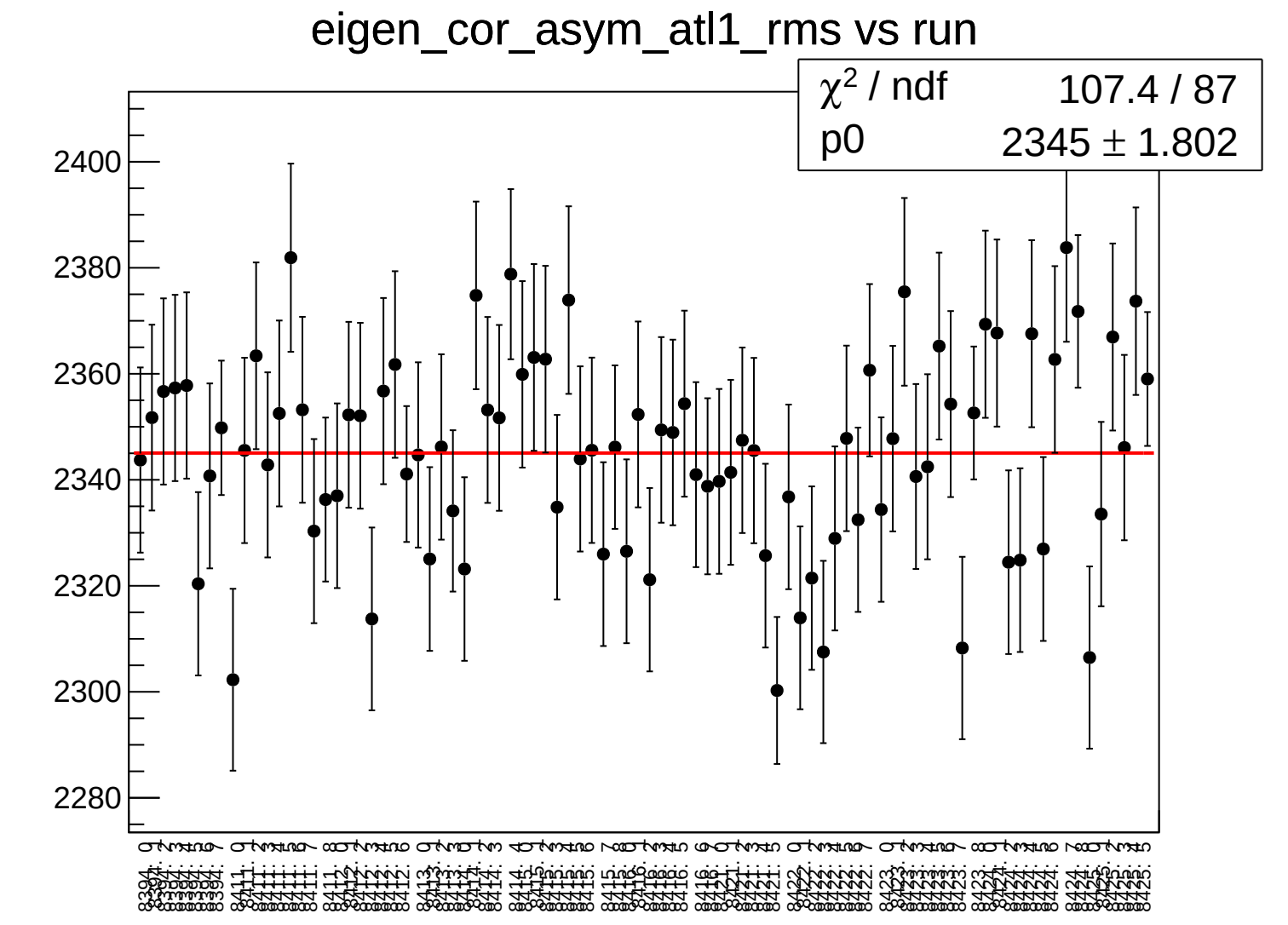

asym_atl1_cor_correction_mean vs run
χ² / ndf 65.16 / 87
p0 3587 ± 906.4
pull
Entries 88
Mean −1172
Std Dev 0

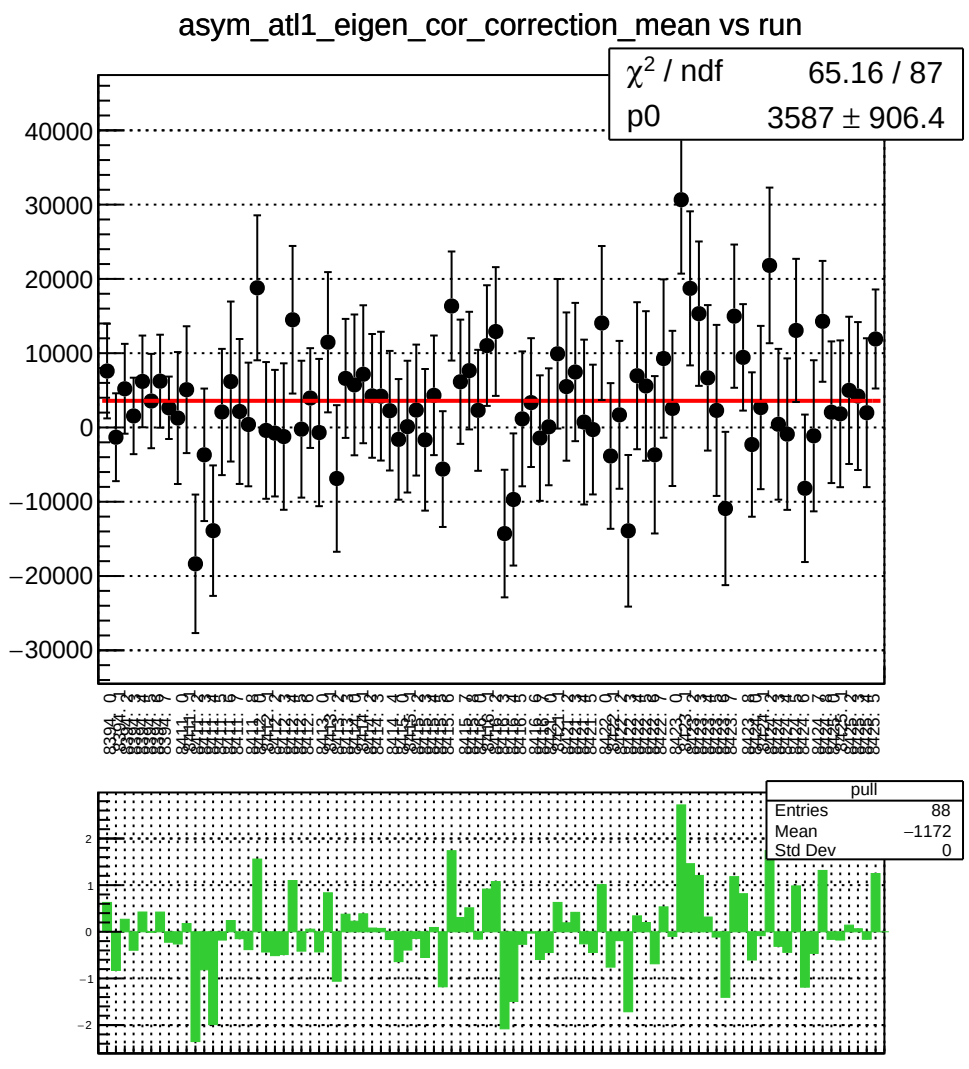

pull1D
Entries 88
Mean −0.003211
Std Dev 0.8605

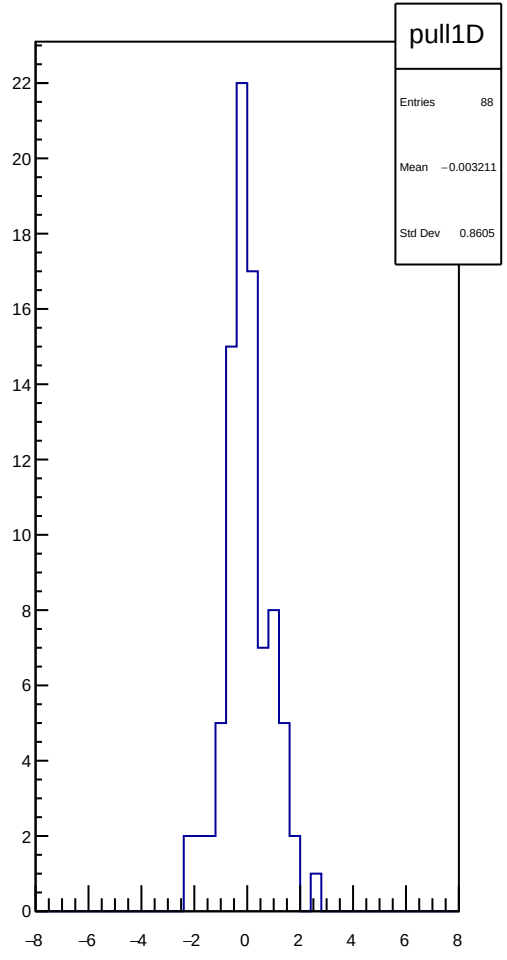

asym_atl1_cor_correction_rms vs run
χ² / ndf 5.514e+04 / 87
p0 820.2 ± 0.6409
1100
1000
900
800
700
600
500

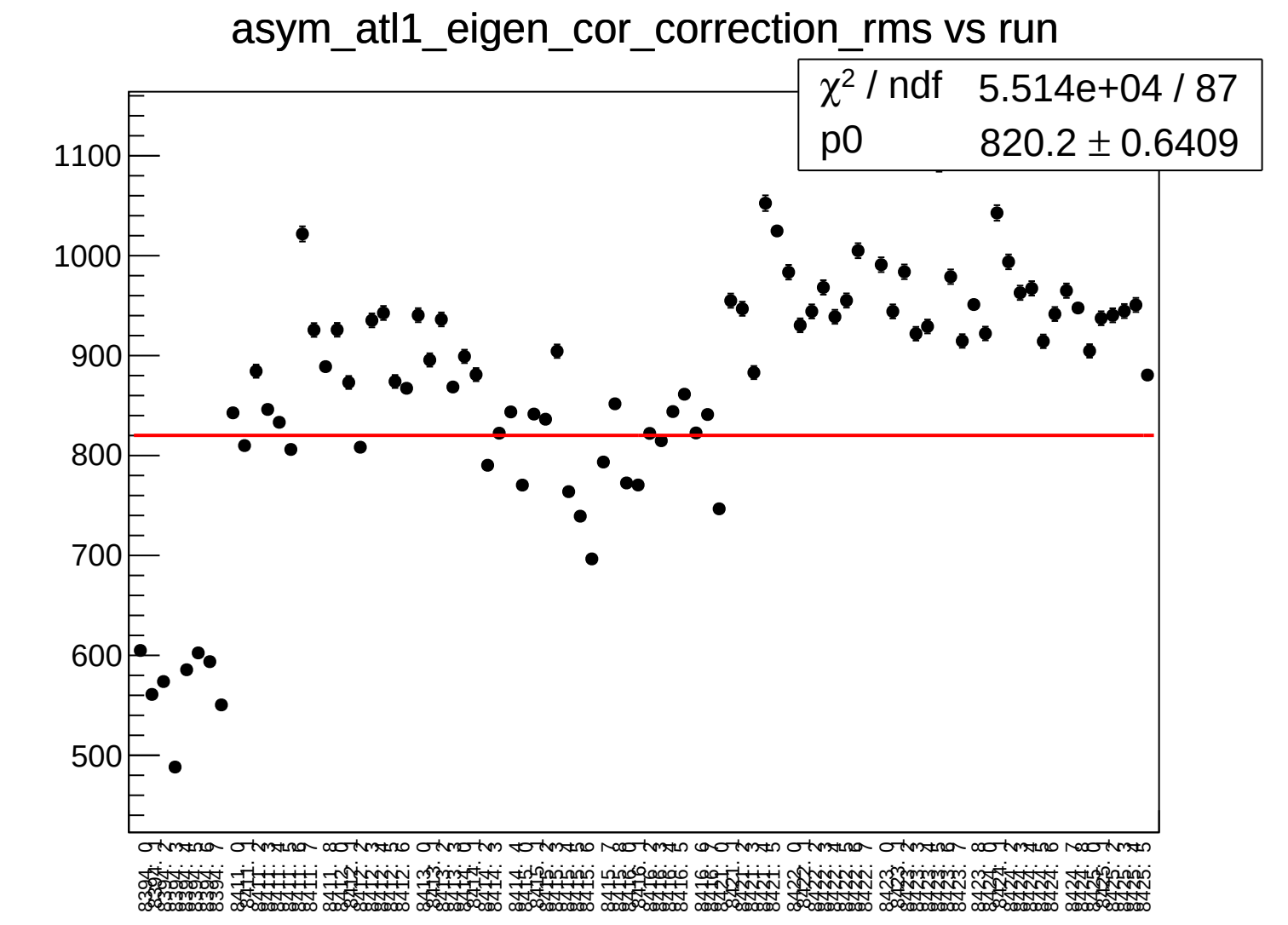

eigen_cor_asym_atl1_mean vs run
×10^3
χ² / ndf 81.77 / 87
p0 −342.7 ± 2549
pull
Entries 88
Mean 70.26
Std Dev 14.23

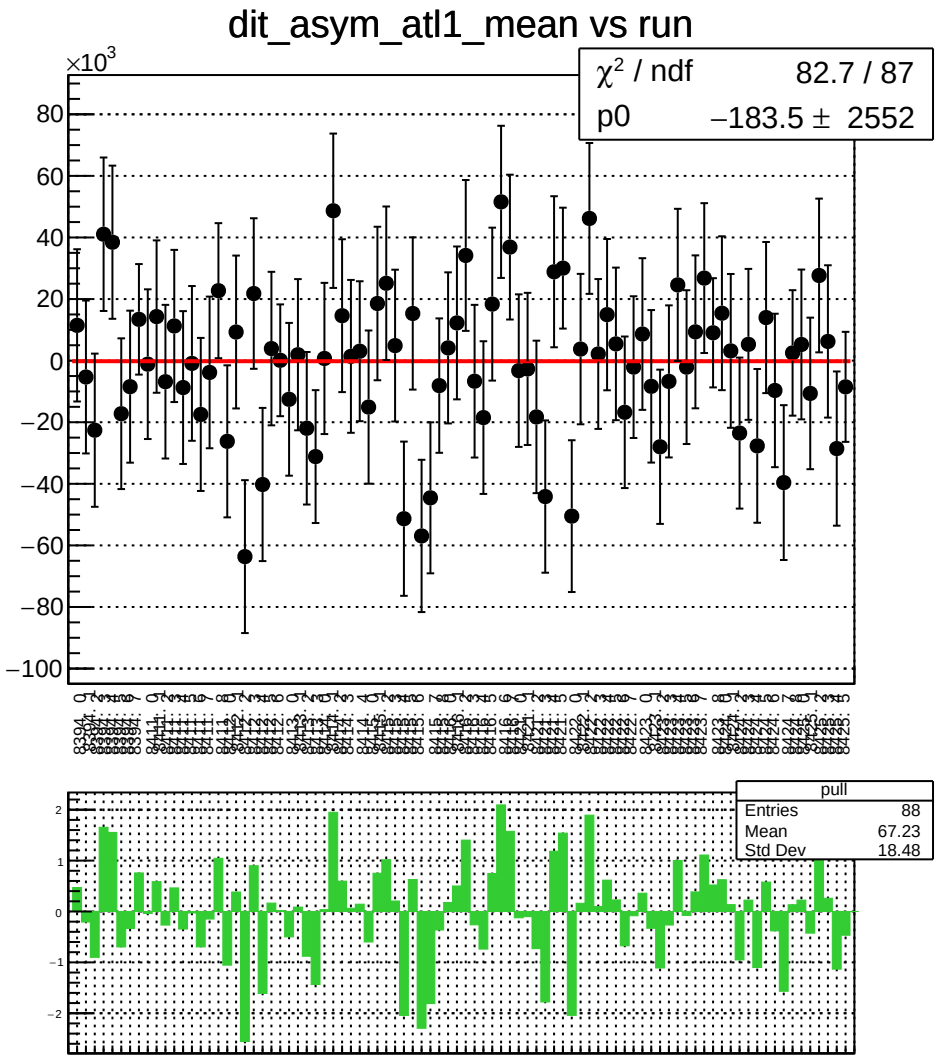

pull1D
Entries 88
Mean −0.008933
Std Dev 0.9639

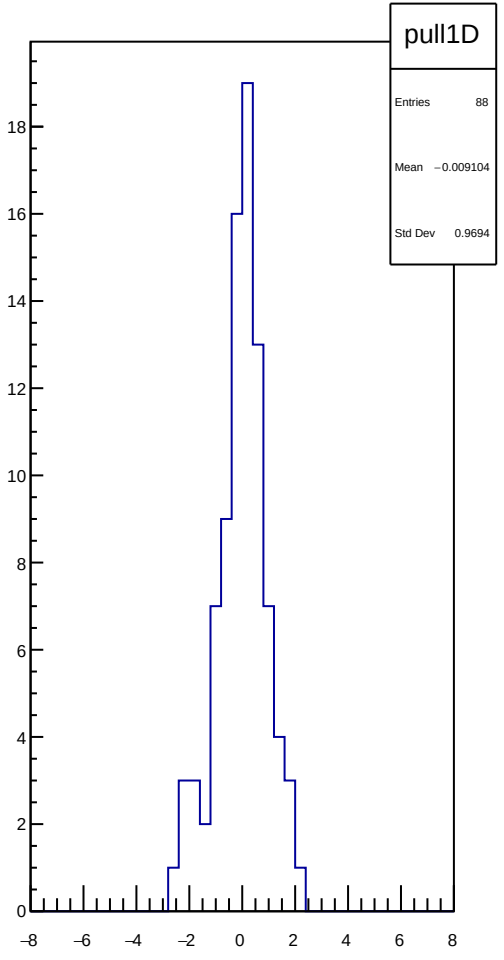

eigen_cor_asym_atl1_rms vs run
χ² / ndf 107.4 / 87
p0 2345 ± 1.802
2400
2380
2360
2340
2320
2300
2280

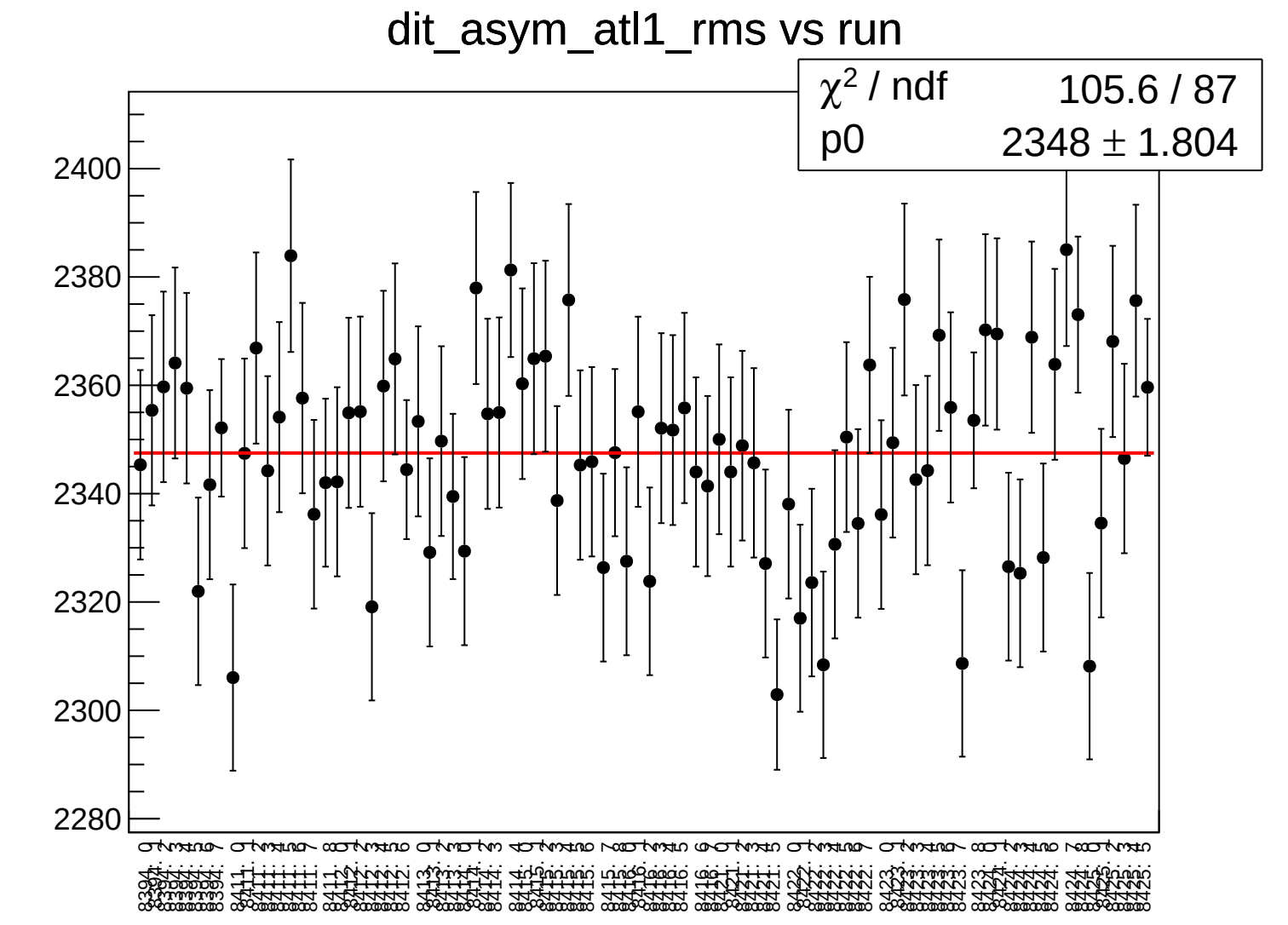

asym_atl1_eigen_cor_correction_mean vs run
χ^2 / ndf 65.16 / 87
p0 3587 ± 906.4
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −1172
Std Dev 0
2
1
0
−1
−2

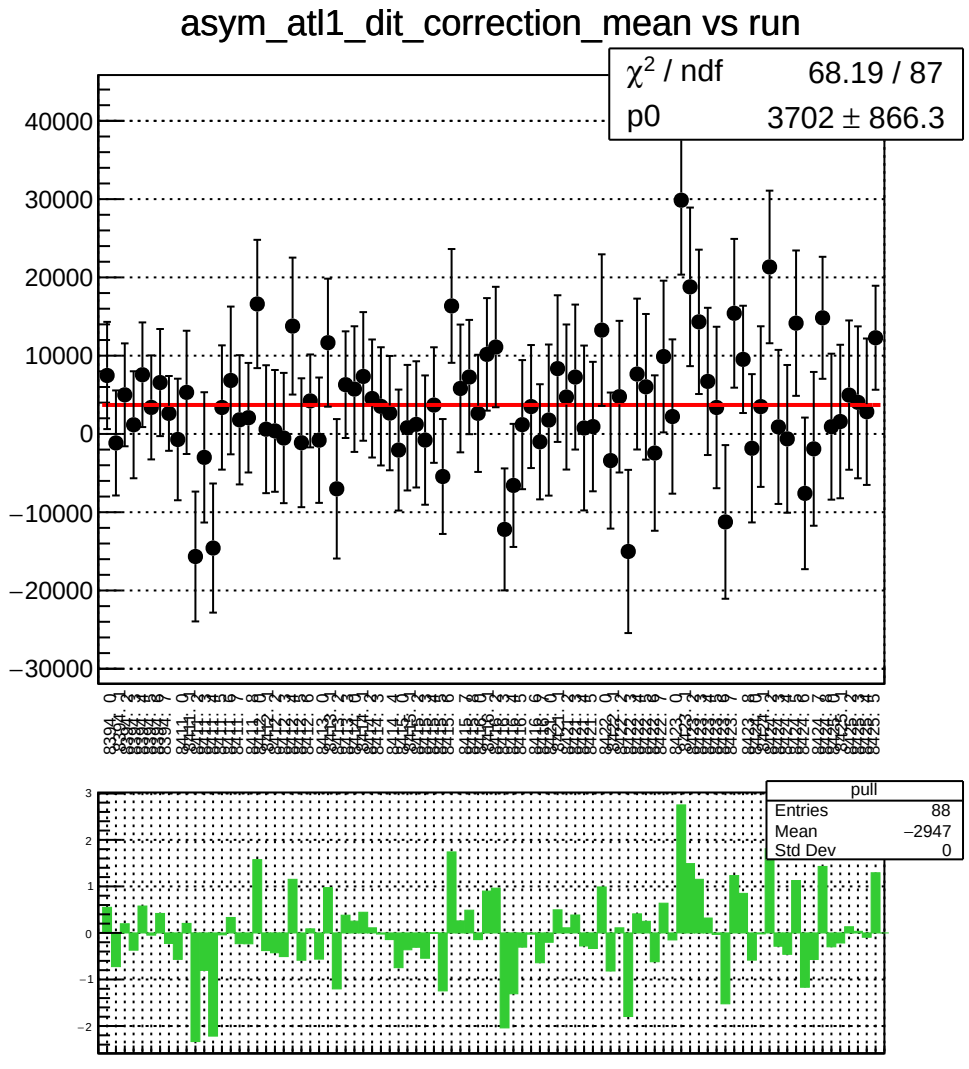

pull1D
Entries 88
Mean −0.003211
Std Dev 0.8605
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

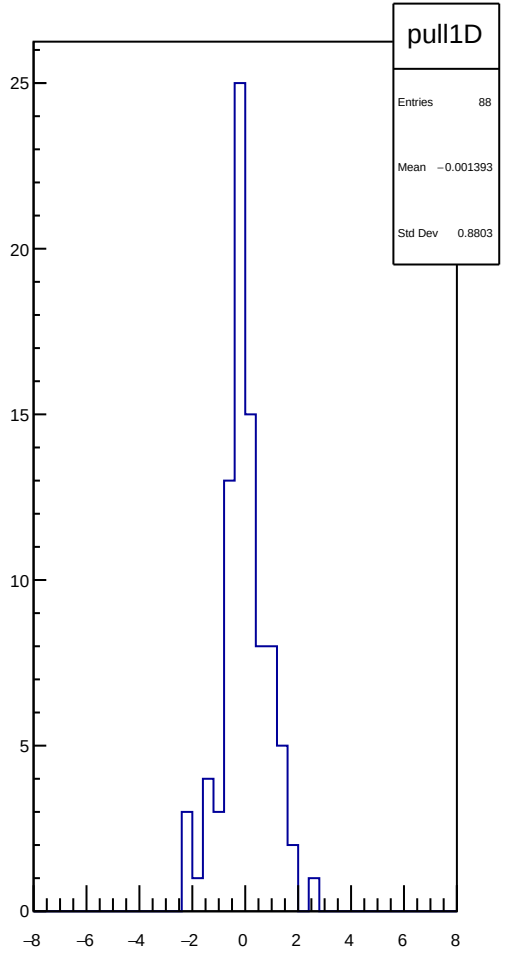

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 5.514e+04 / 87
p0 820.2 ± 0.6409
1100
1000
900
800
700
600
500

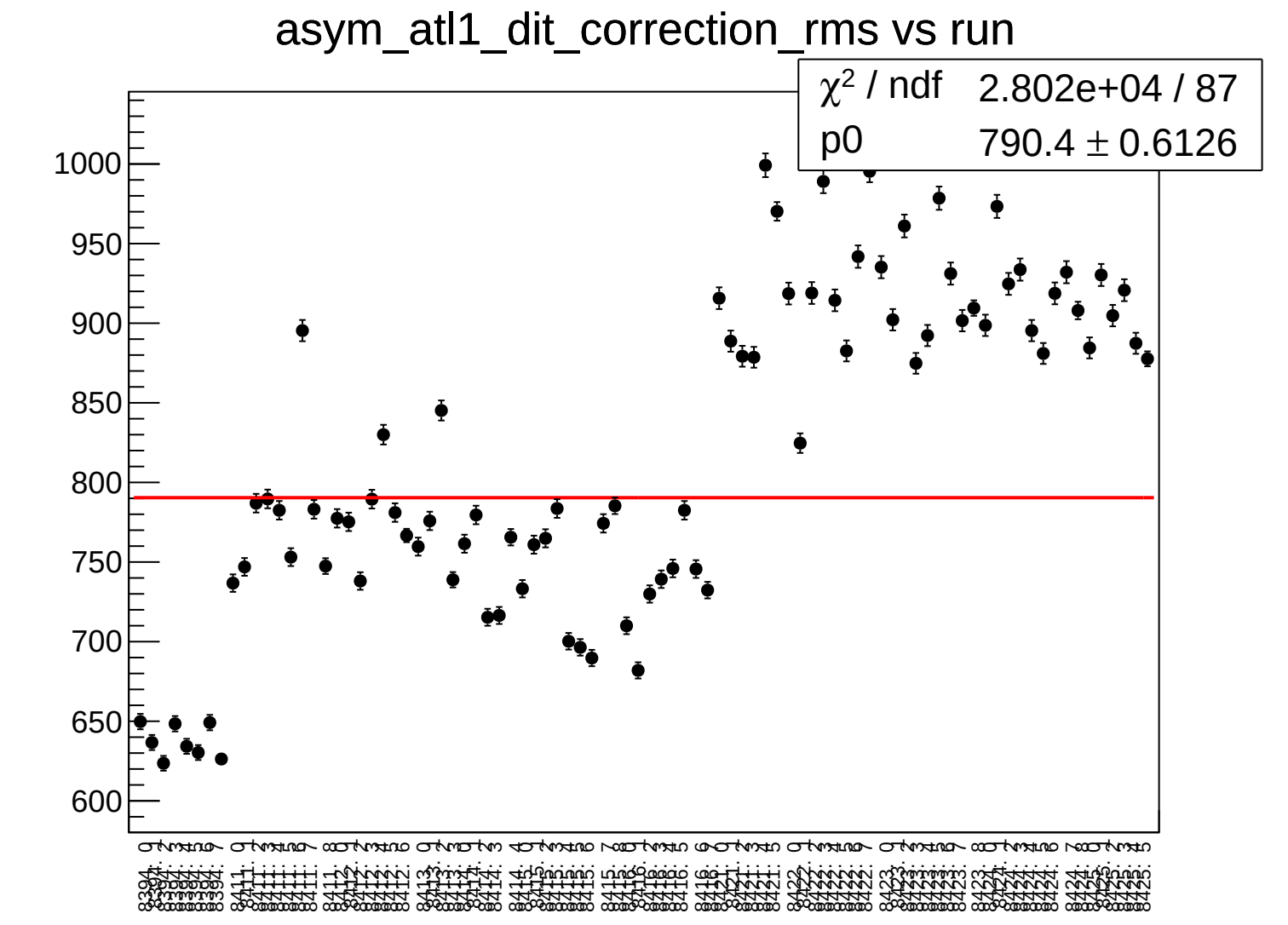

dit_asym_atl1_mean vs run
×10^3
χ² / ndf 82.7 / 87
p0 −183.5 ± 2552
pull
Entries 88
Mean 67.23
Std Dev 18.48

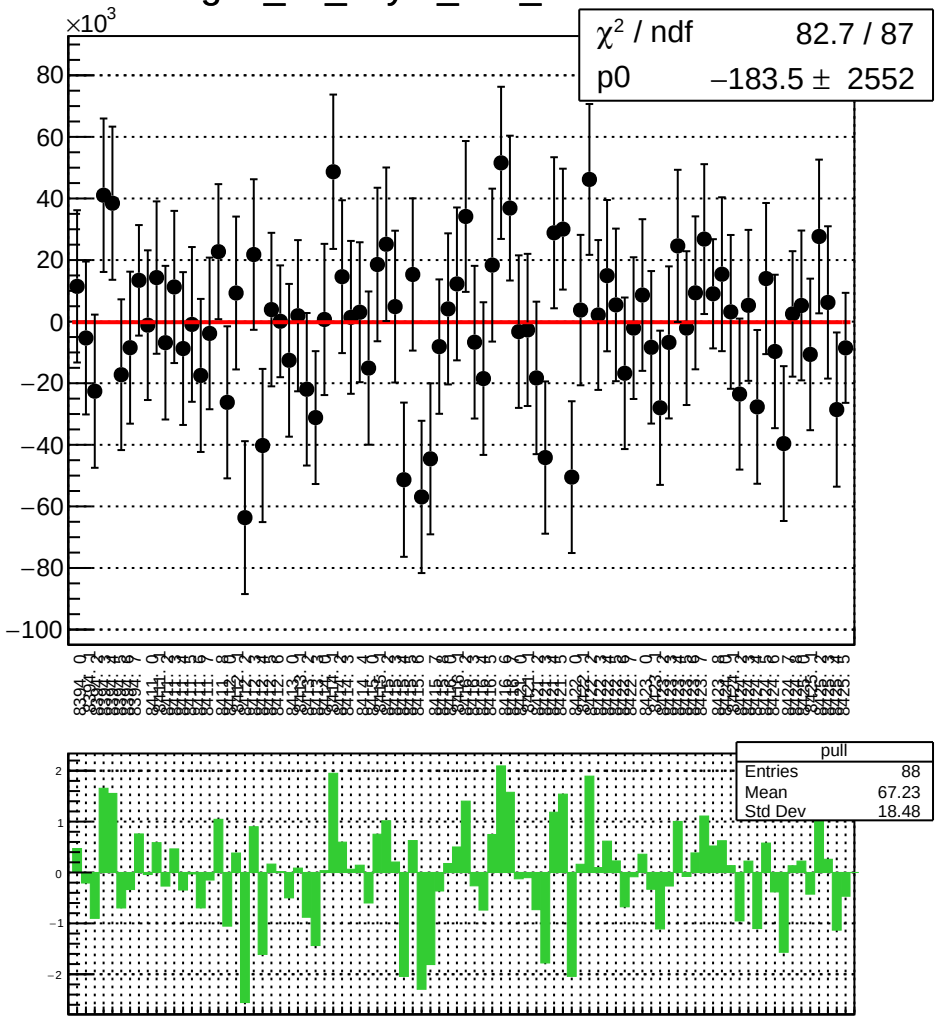

pull1D
Entries 88
Mean −0.009104
Std Dev 0.9694

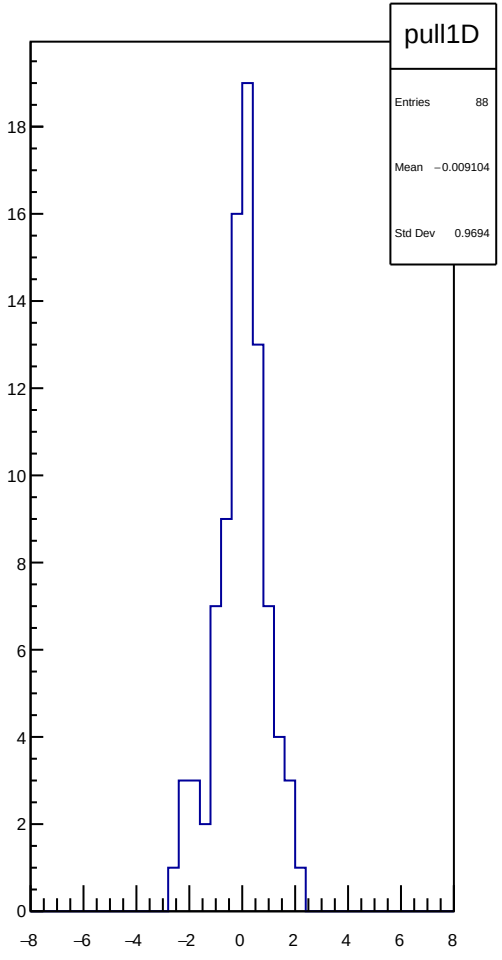

dit_asym_atl1_rms vs run
χ^2 / ndf 105.6 / 87
p0 2348 ± 1.804
2400
2380
2360
2340
2320
2300
2280

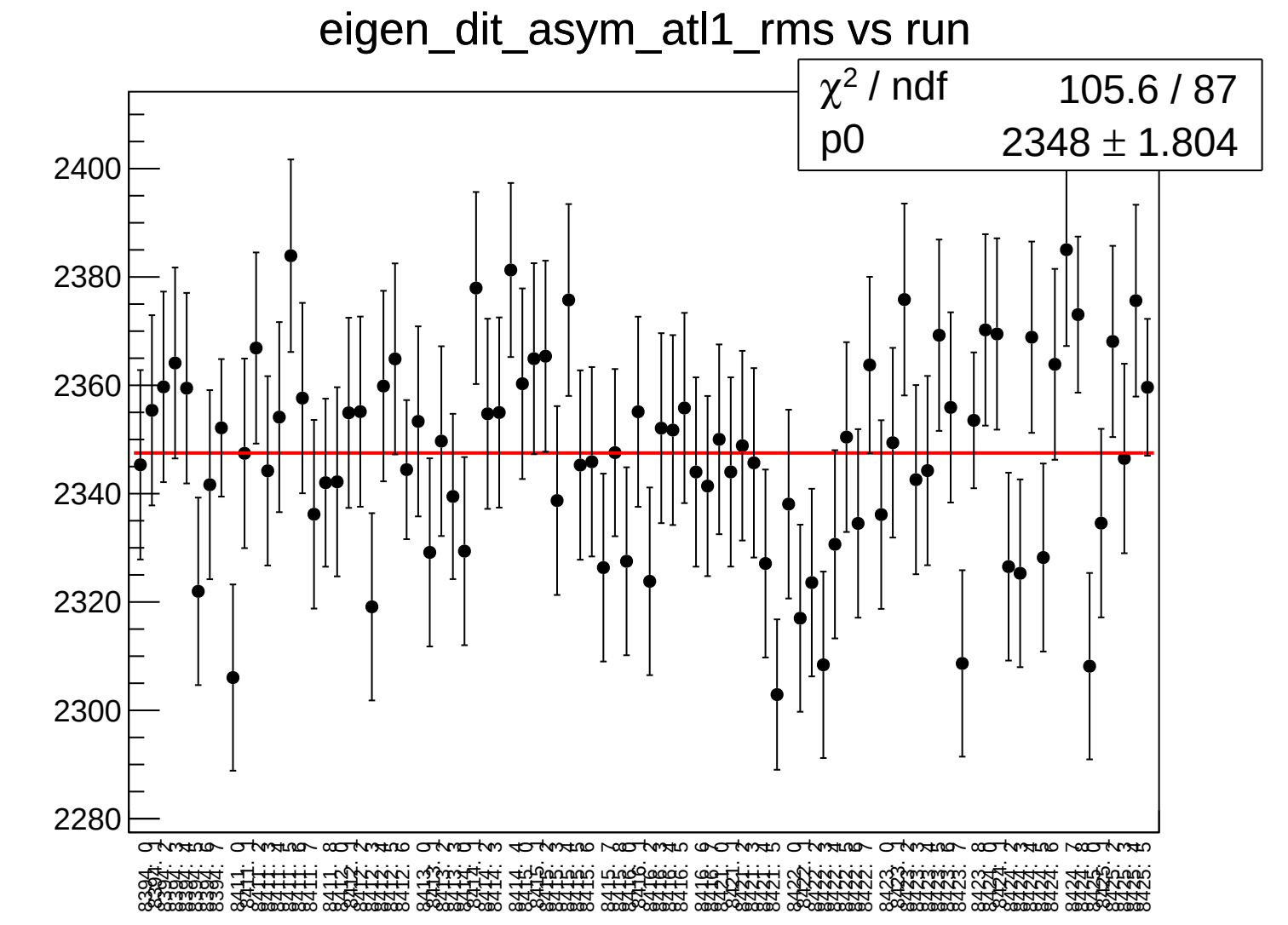

asym_atl1_dit_correction_mean vs run
χ² / ndf 68.19 / 87
p0 3702 ± 866.3
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −2947
Std Dev 0
3
2
1
0
−1
−2

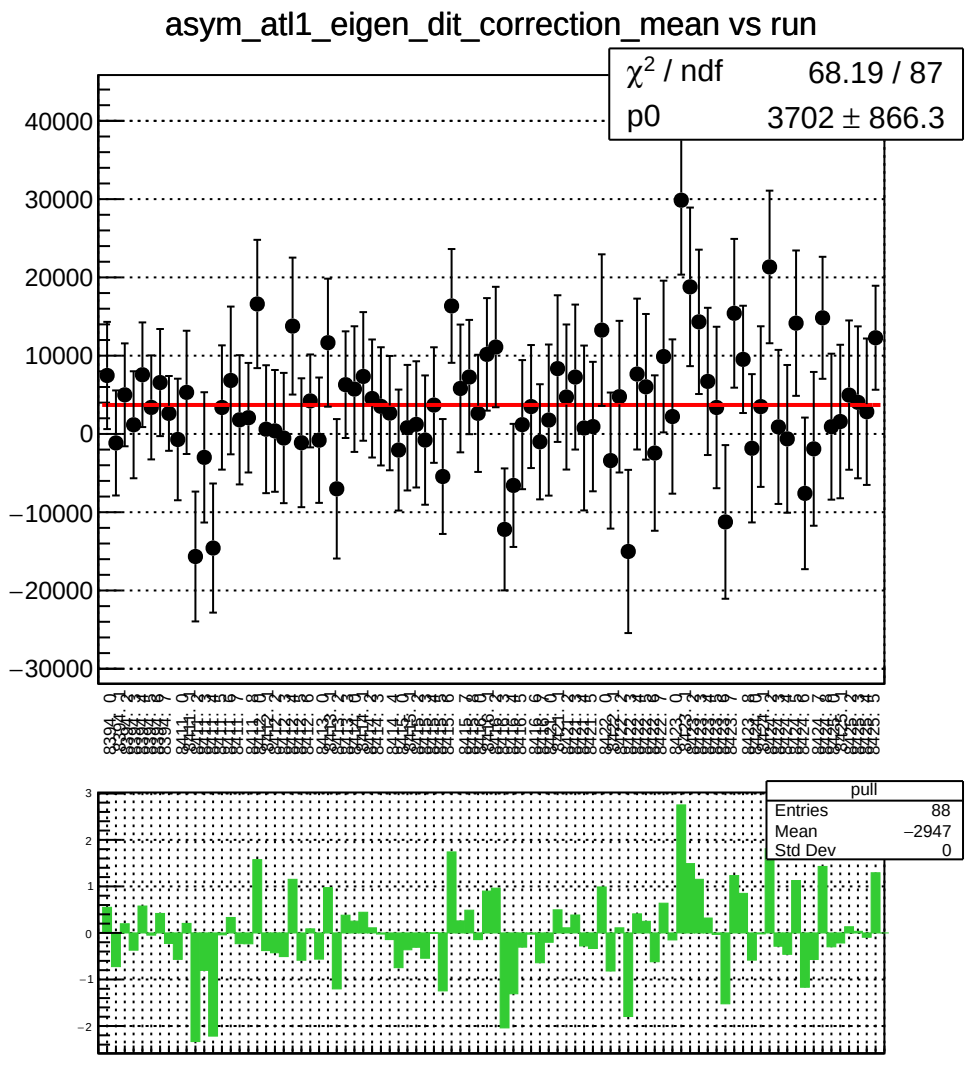

pull1D
Entries 88
Mean −0.001393
Std Dev 0.8803
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

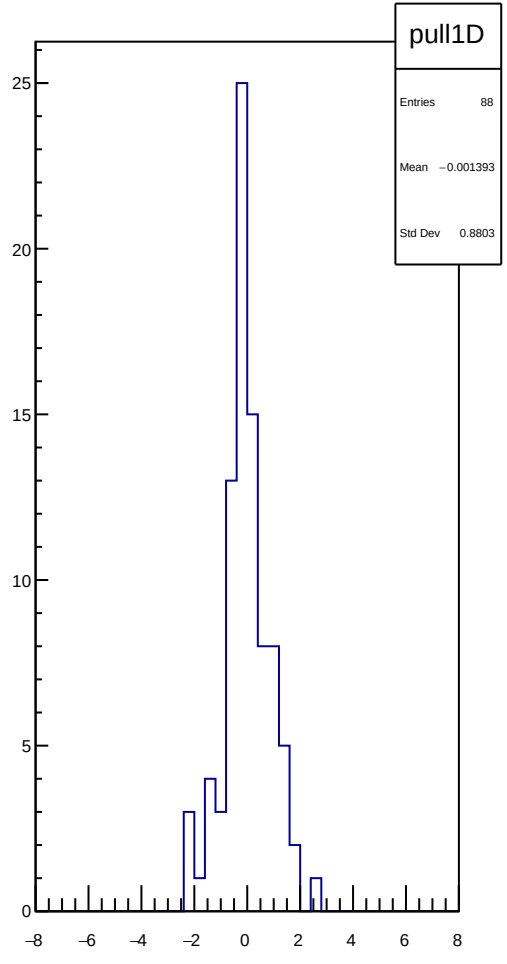

asym_atl1_dit_correction_rms vs run
χ² / ndf 2.802e+04 / 87
p0 790.4 ± 0.6126
1000
950
900
850
800
750
700
650
600

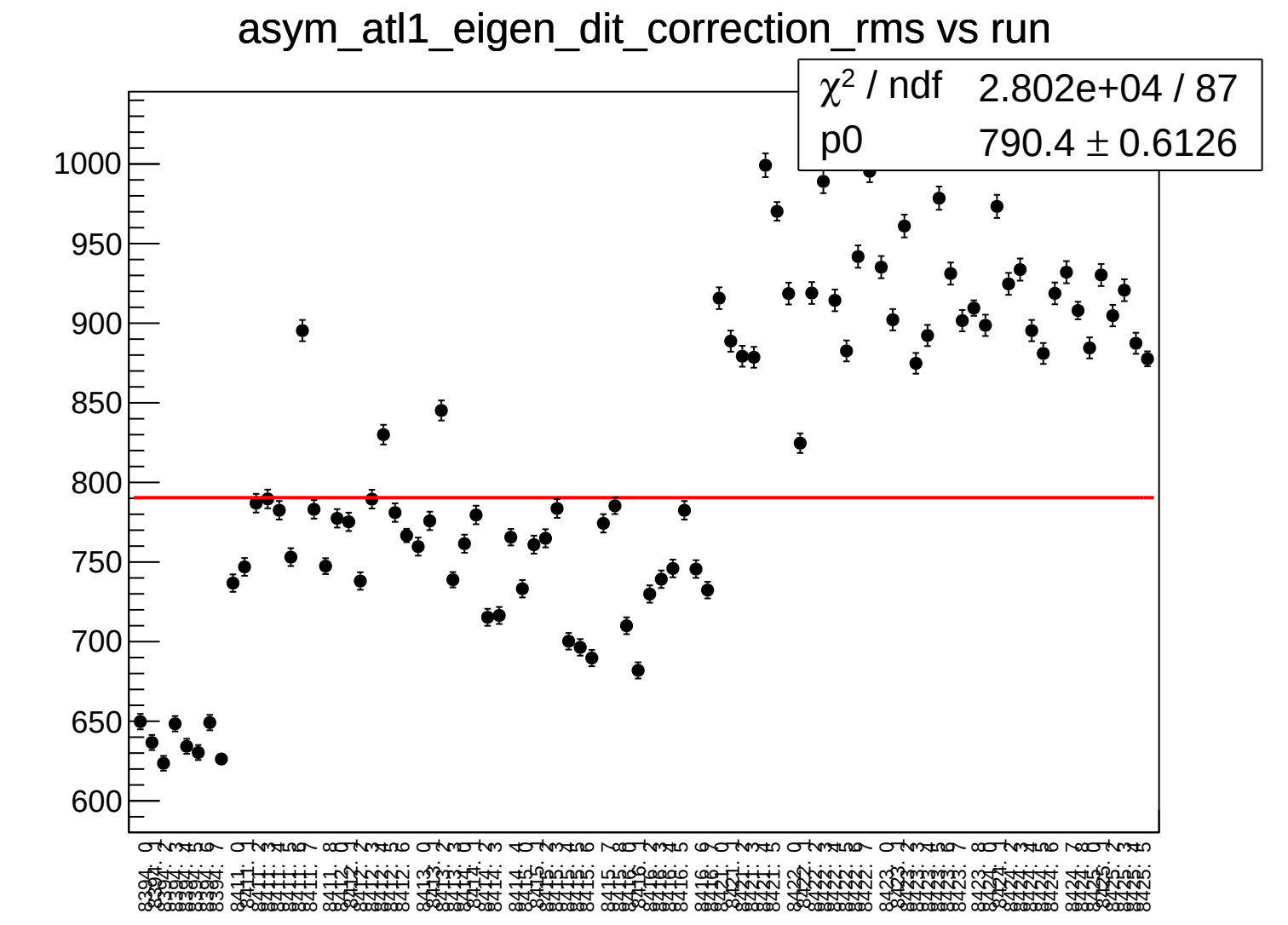

eigen_dit_asym_atl1_mean vs run
×10^3
χ² / ndf 82.7 / 87
p0 −183.5 ± 2552
pull
Entries 88
Mean 67.23
Std Dev 18.48

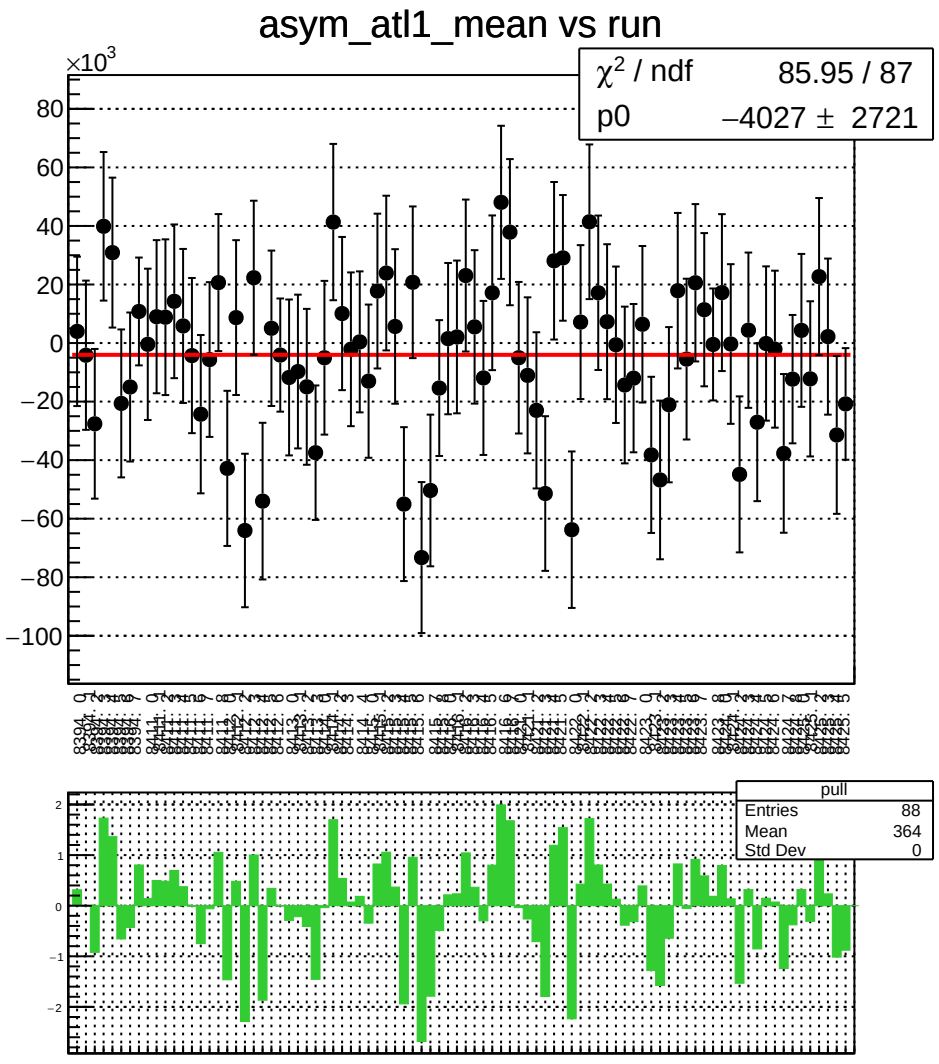

pull1D
Entries 88
Mean −0.009104
Std Dev 0.9694

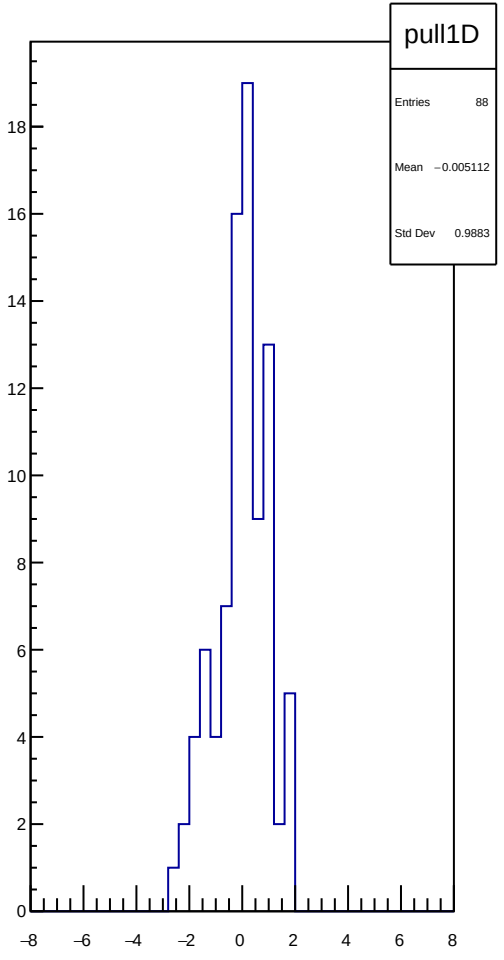

eigen_dit_asym_atl1_rms vs run
χ^2 / ndf 105.6 / 87
p0 2348 ± 1.804
2400
2380
2360
2340
2320
2300
2280

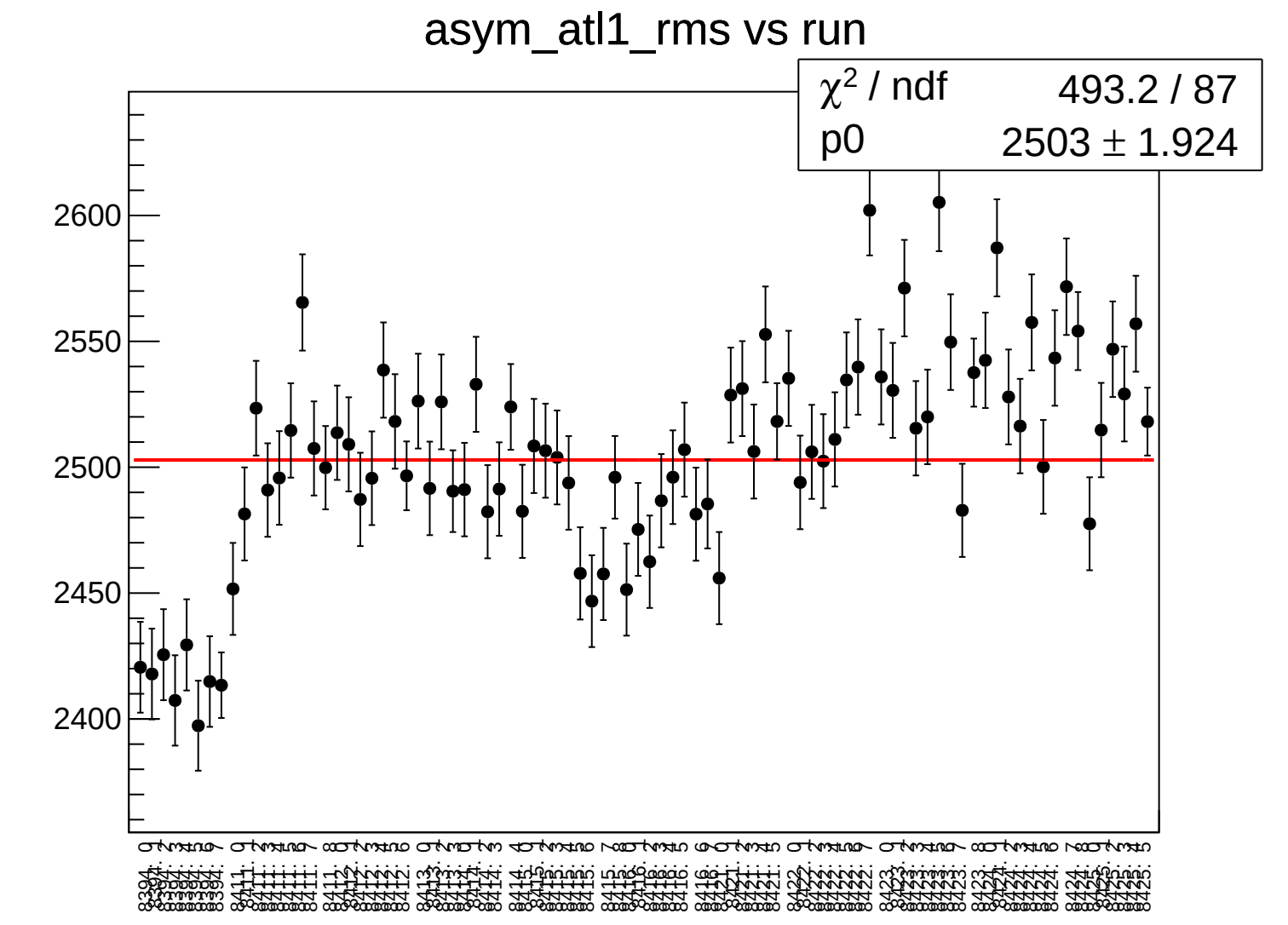

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 68.19 / 87
p0 3702 ± 866.3
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −2947
Std Dev 0
3
2
1
0
−1
−2

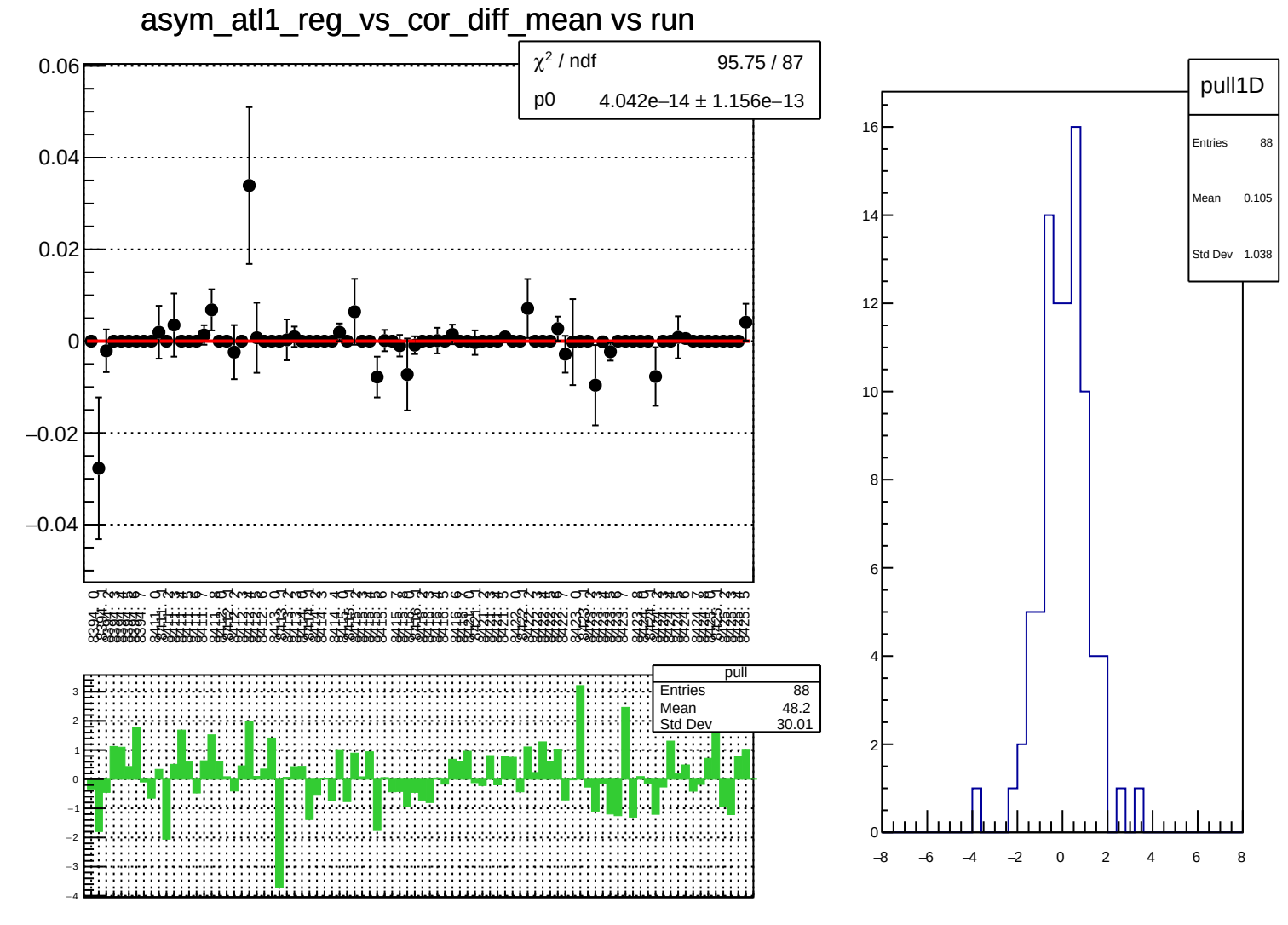

pull1D
Entries 88
Mean −0.001393
Std Dev 0.8803
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

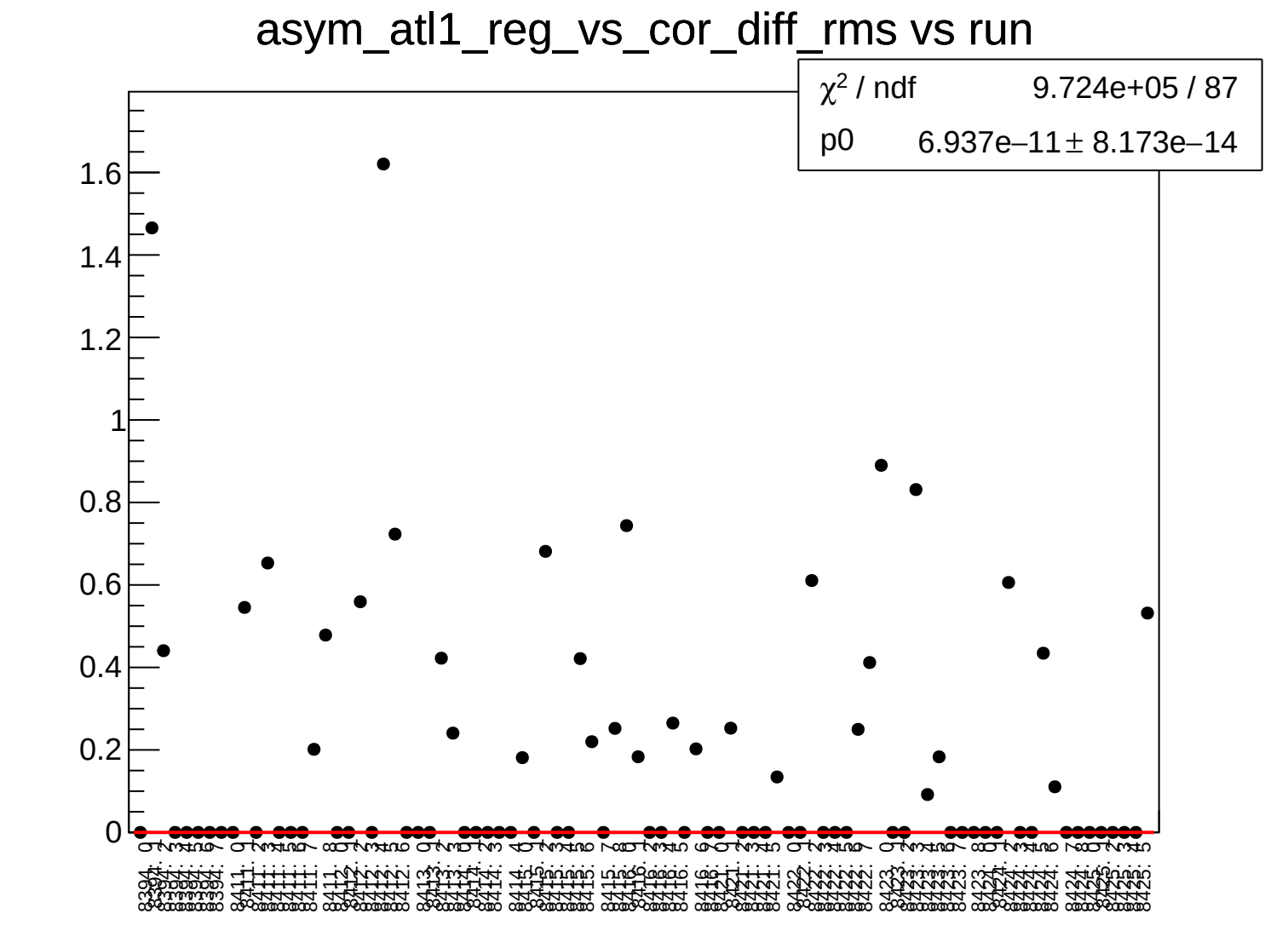

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 2.802e+04 / 87
p0 790.4 ± 0.6126
1000
950
900
850
800
750
700
650
600

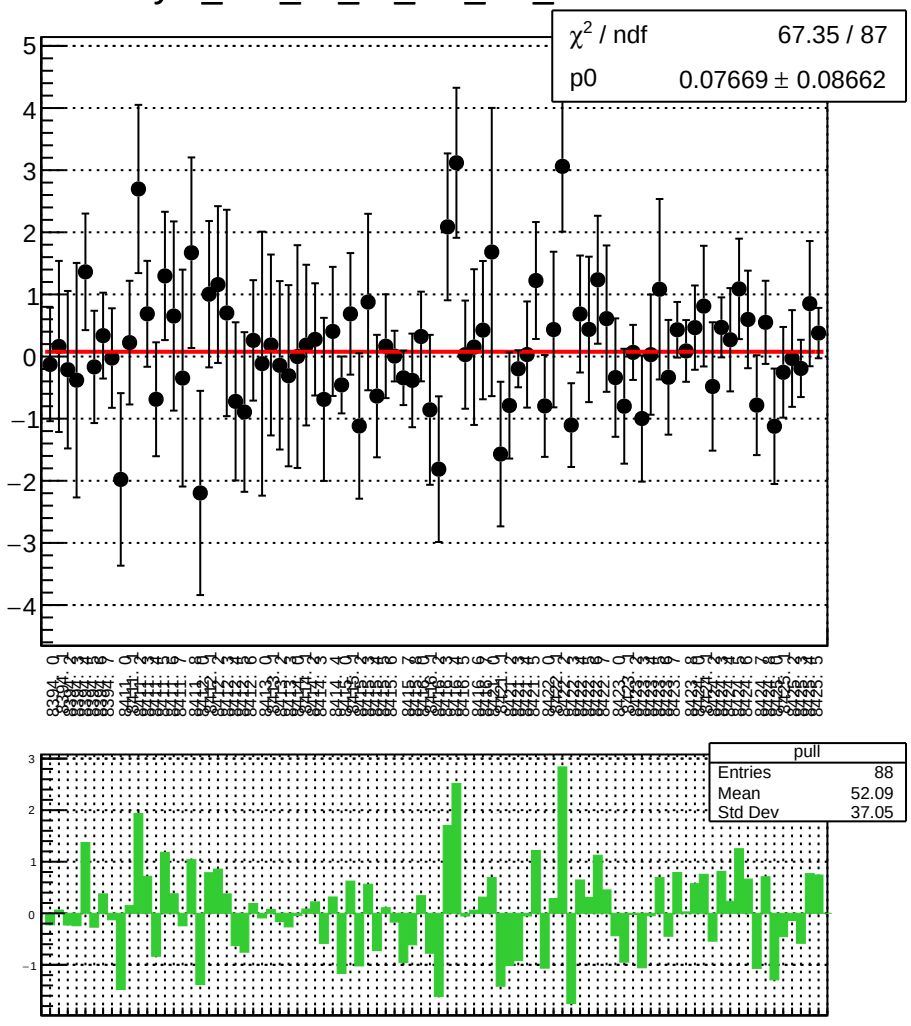

asym_atl1_mean vs run
×10^3
χ² / ndf 85.95 / 87
p0 −4027 ± 2721
pull
Entries 88
Mean 364
Std Dev 0

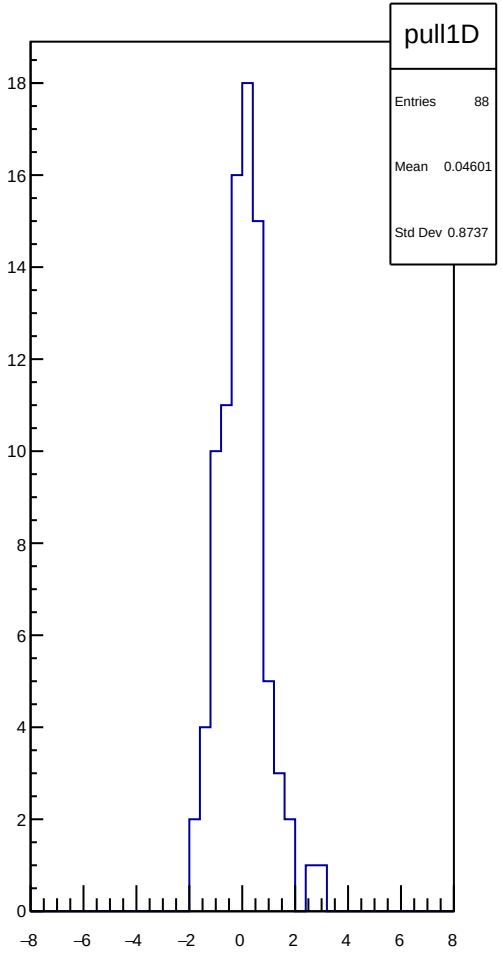

pull1D
Entries 88
Mean −0.005112
Std Dev 0.9883

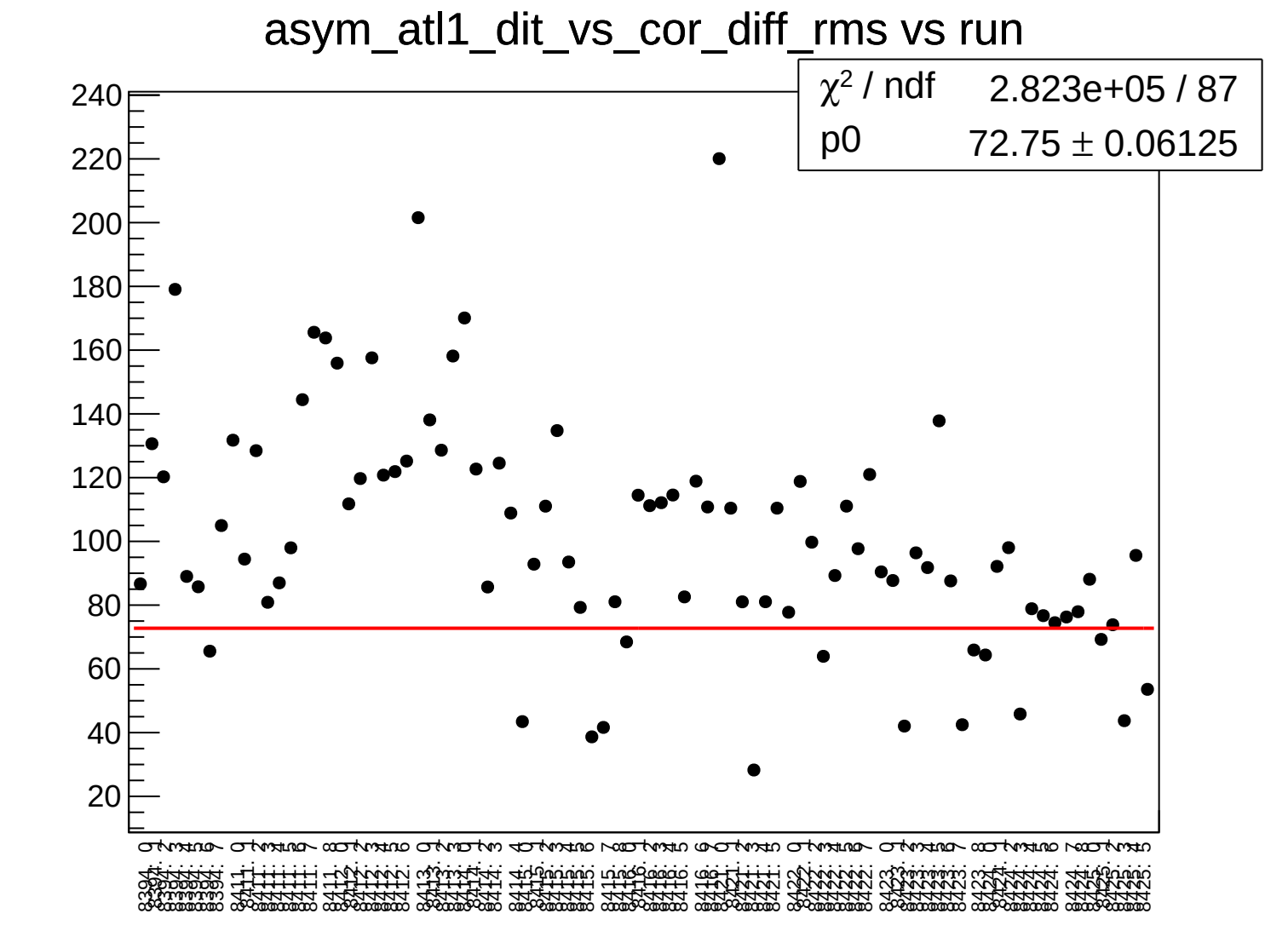

asym_atl1_rms vs run
χ² / ndf 493.2 / 87
p0 2503 ± 1.924
2600
2550
2500
2450
2400

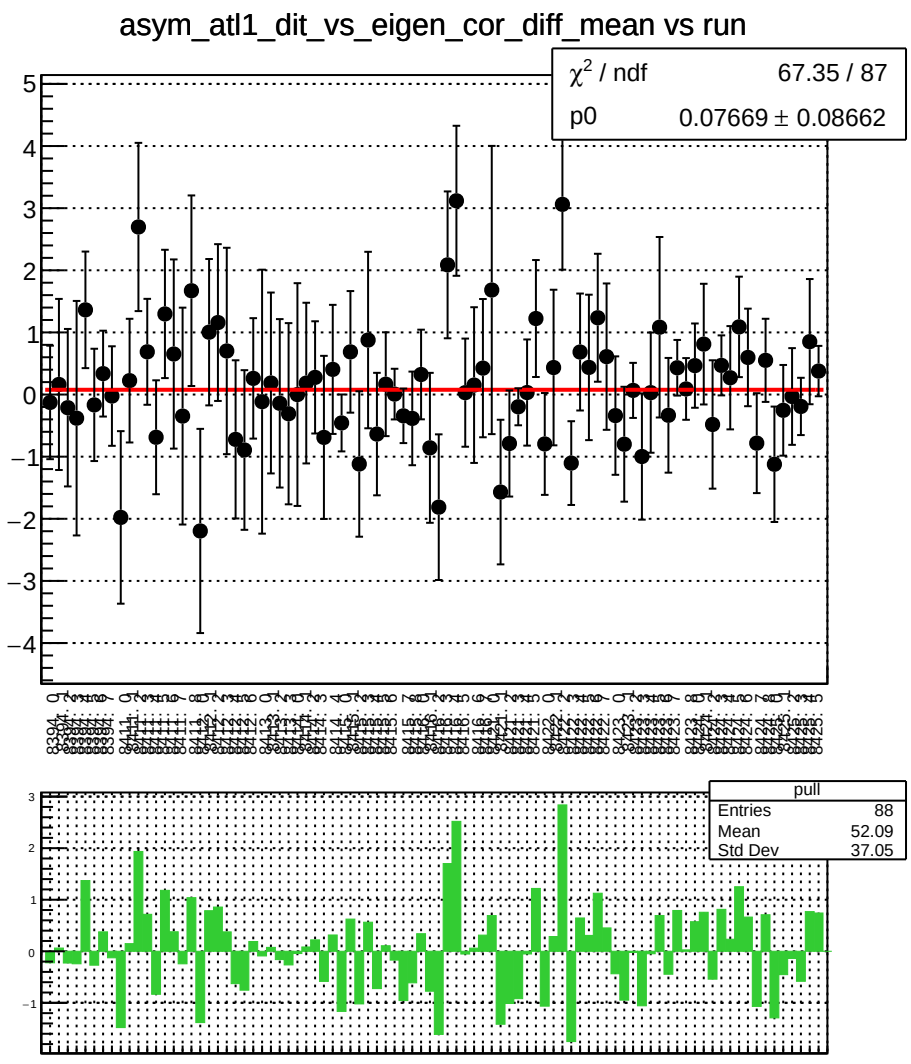

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 95.75 / 87
p0 4.042e−14 ± 1.156e−13
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 88
Mean 48.2
Std Dev 30.01
pull1D
Entries 88
Mean 0.105
Std Dev 1.038

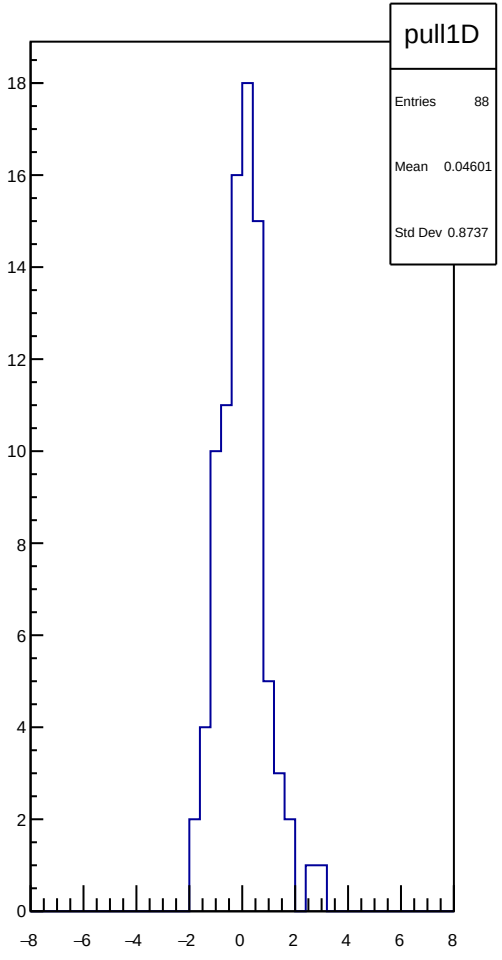

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 9.724e+05 / 87
p0 6.937e−11 ± 8.173e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

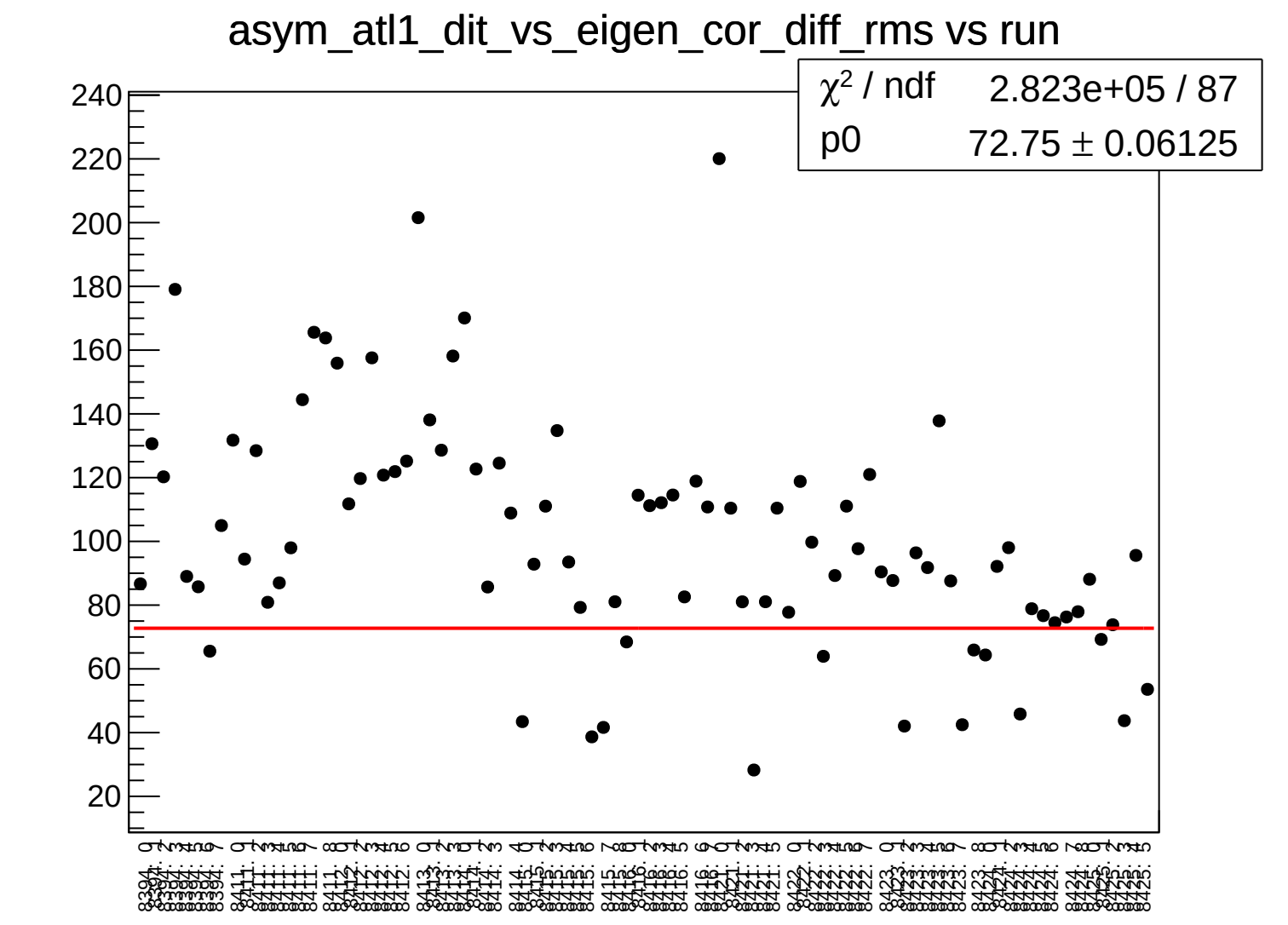

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 67.35 / 87
p0 0.07669 ± 0.08662
pull
Entries 88
Mean 52.09
Std Dev 37.05

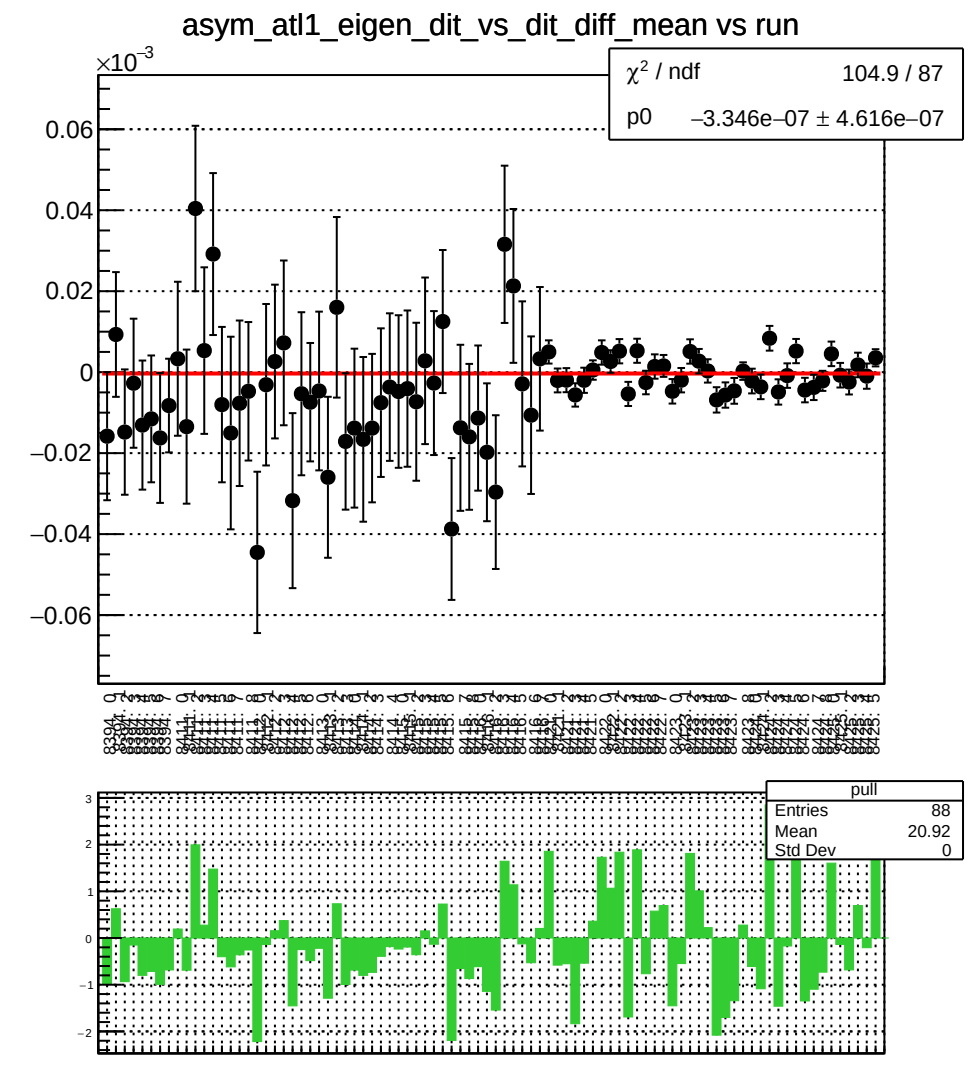

pull1D
Entries 88
Mean 0.04601
Std Dev 0.8737

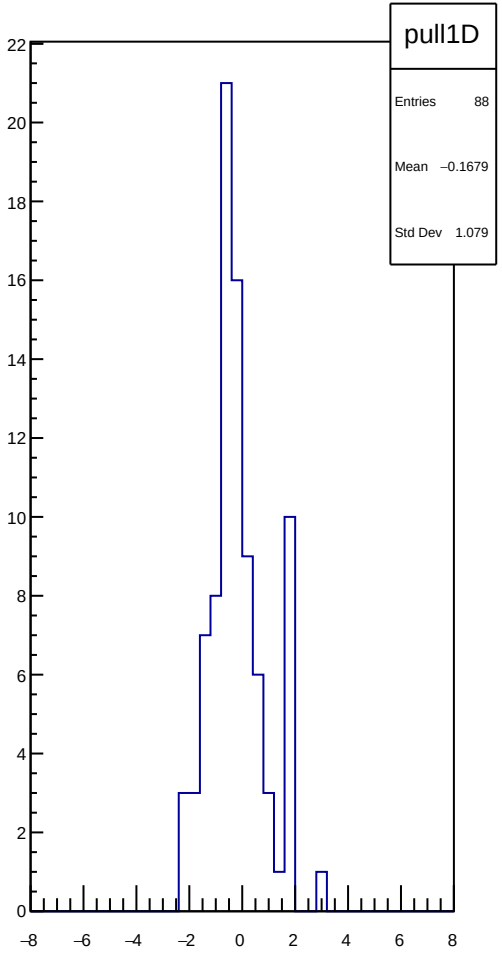

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.823e+05 / 87
p0 72.75 ± 0.06125
240
220
200
180
160
140
120
100
80
60
40
20

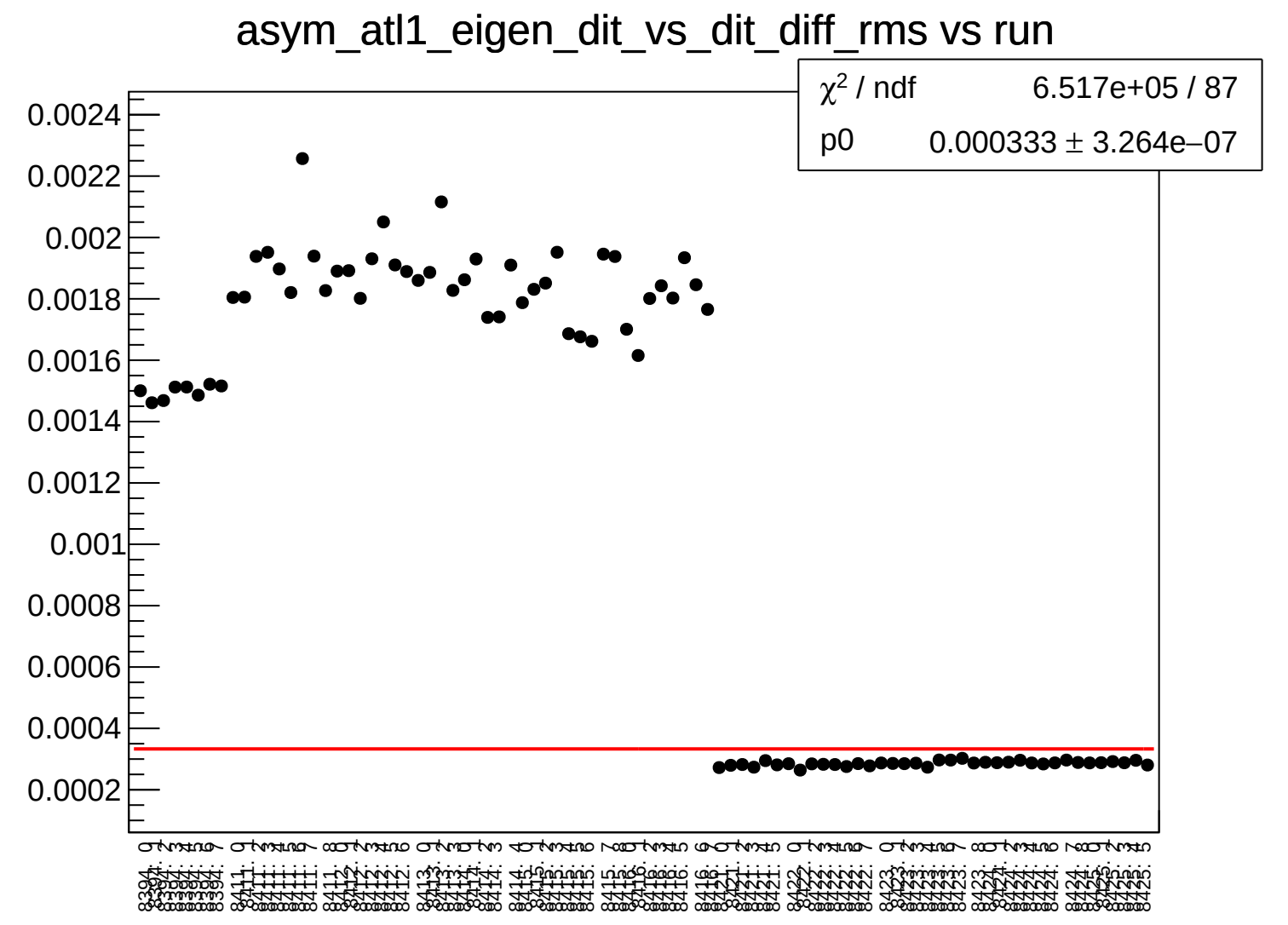

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.35 / 87
p0 0.07669 ± 0.08662
pull
Entries 88
Mean 52.09
Std Dev 37.05

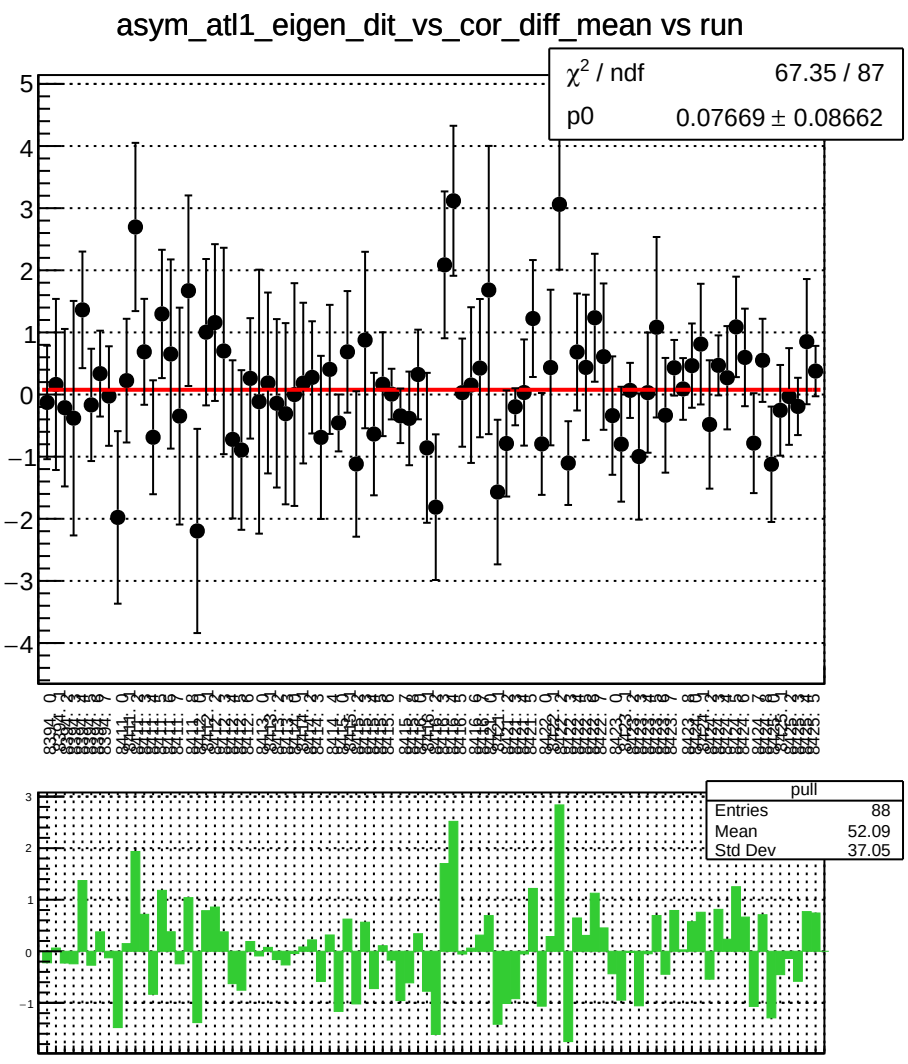

pull1D
Entries 88
Mean 0.04601
Std Dev 0.8737

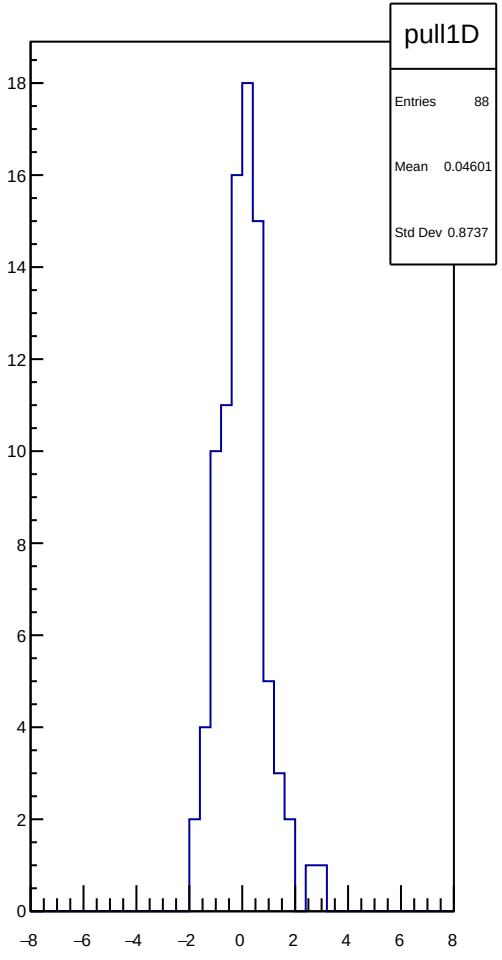

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.823e+05 / 87
p0 72.75 ± 0.06125
240
220
200
180
160
140
120
100
80
60
40
20

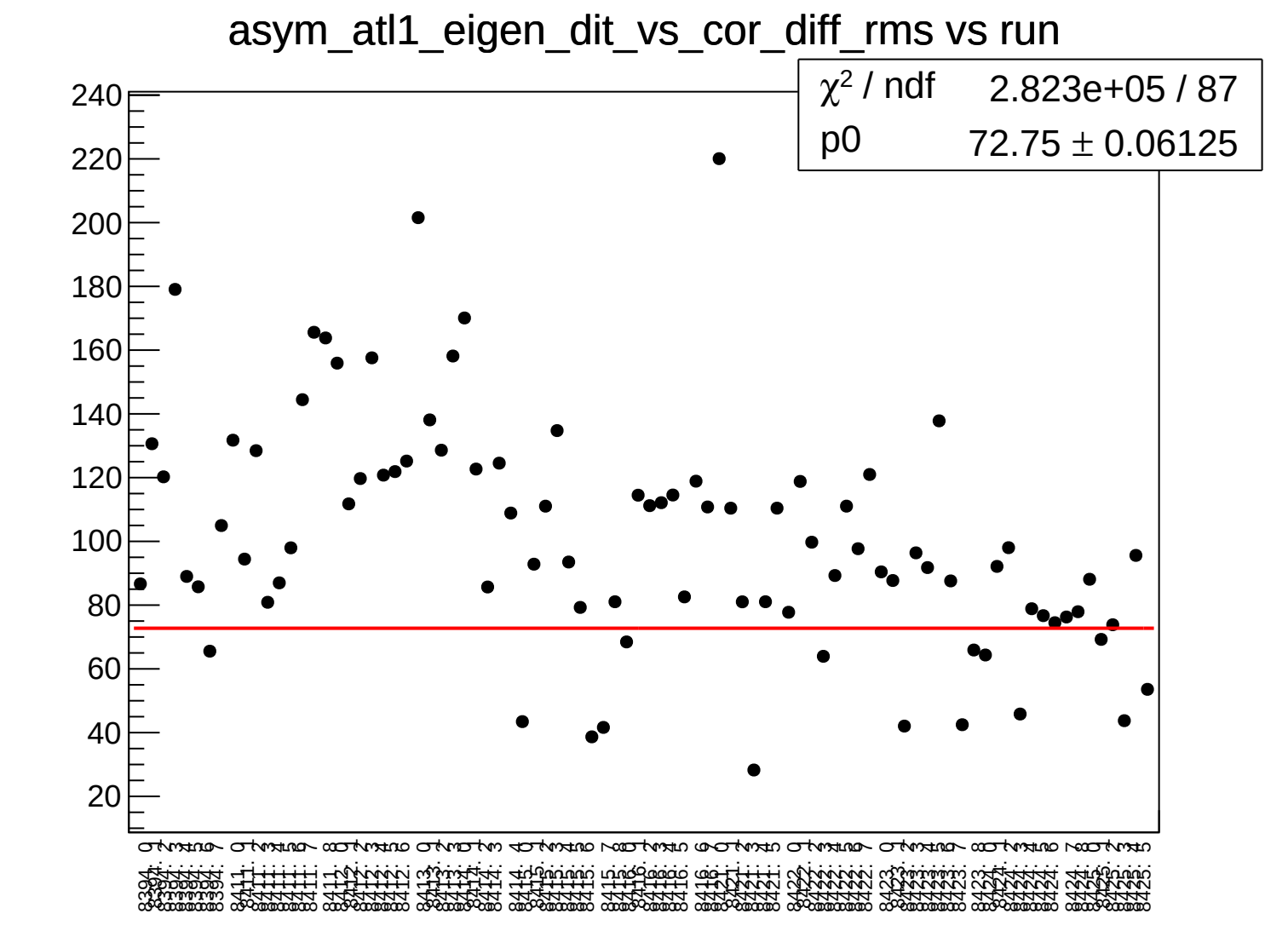

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104.9 / 87
p0 −3.346e−07 ± 4.616e−07
pull
Entries 88
Mean 20.92
Std Dev 0

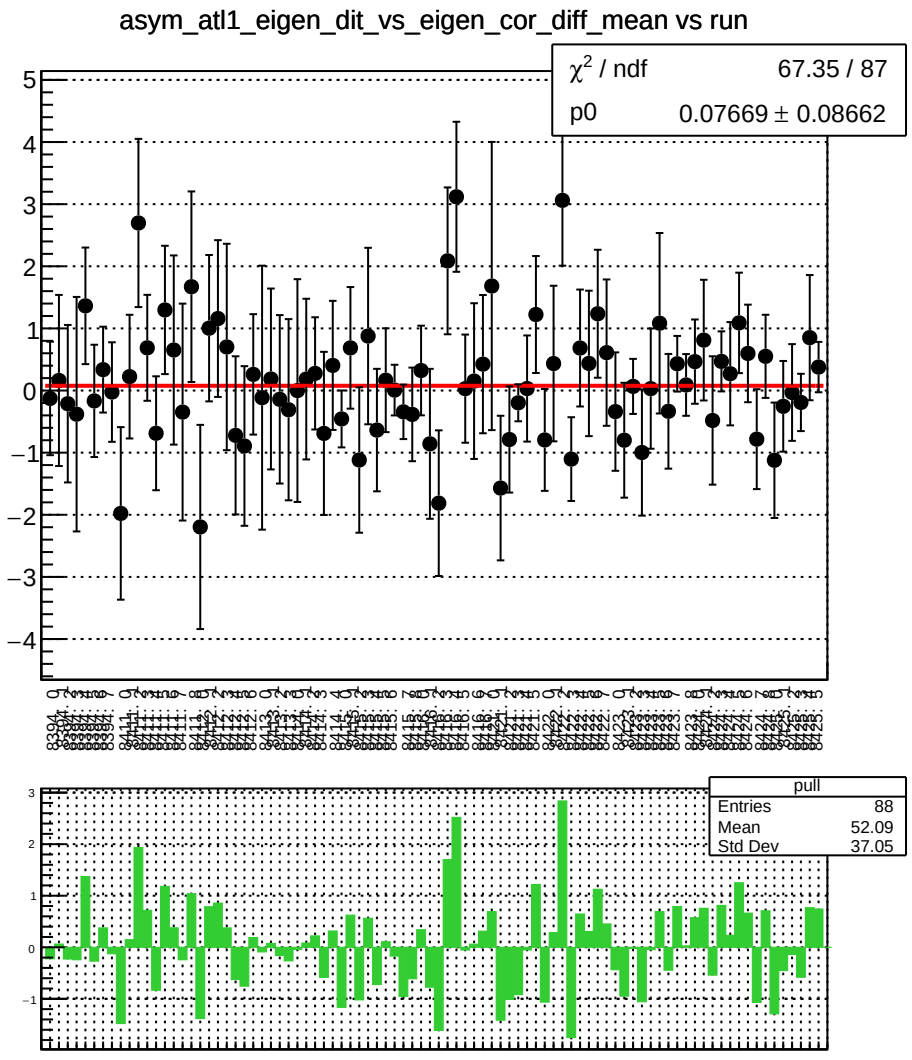

pull1D
Entries 88
Mean −0.1679
Std Dev 1.079

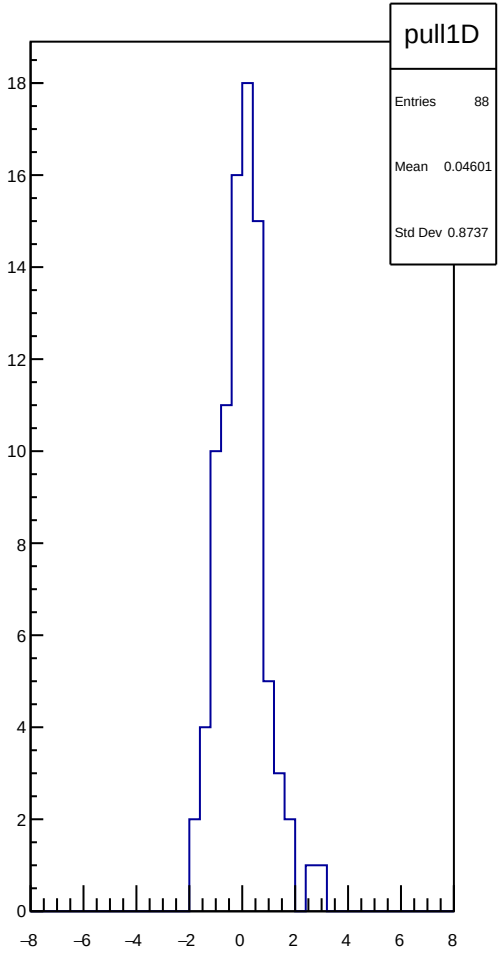

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.517e+05 / 87
p0 0.000333 ± 3.264e−07
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

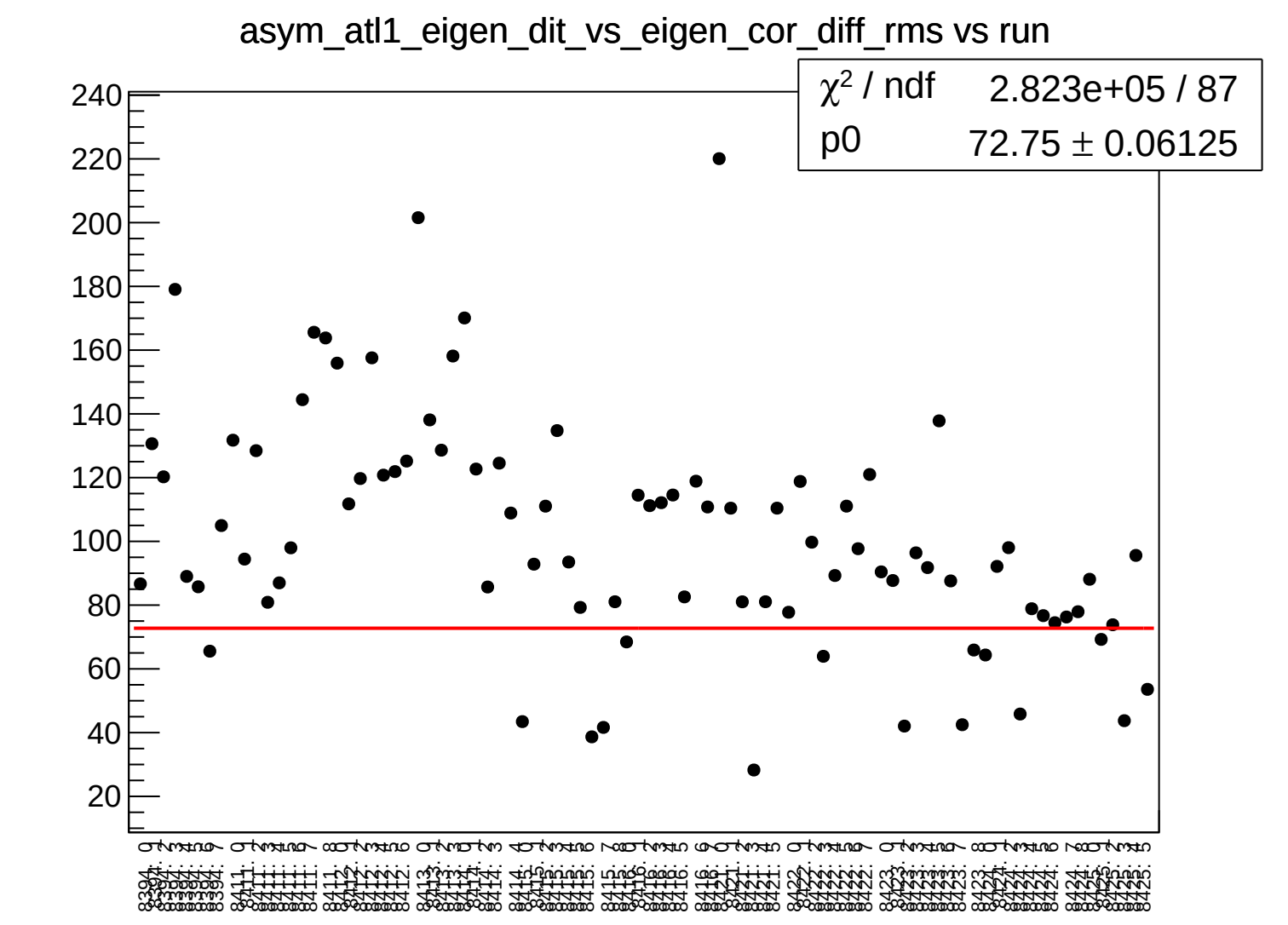

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.35 / 87
p0 0.07669 ± 0.08662
pull
Entries 88
Mean 52.09
Std Dev 37.05

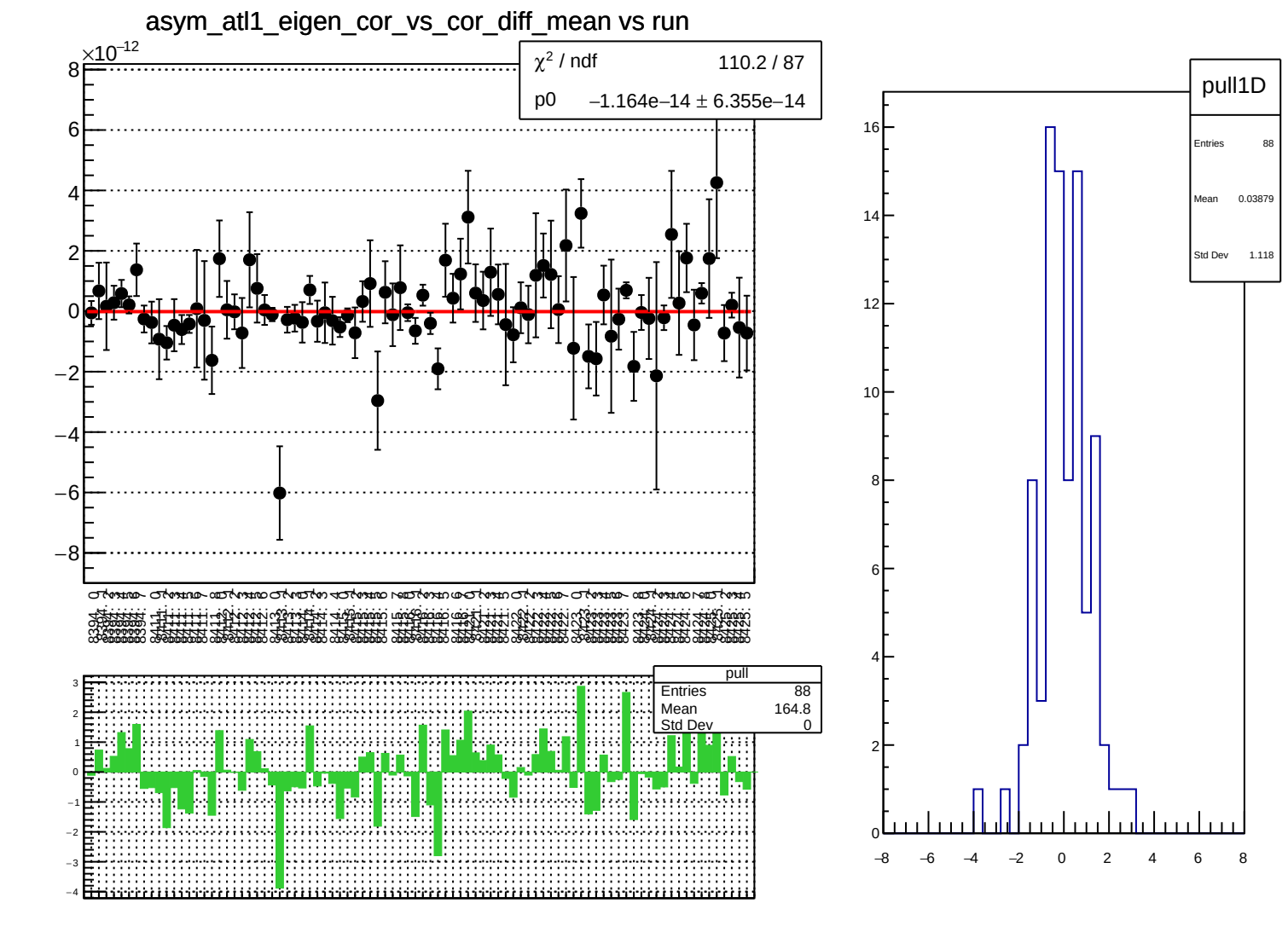

pull1D
Entries 88
Mean 0.04601
Std Dev 0.8737

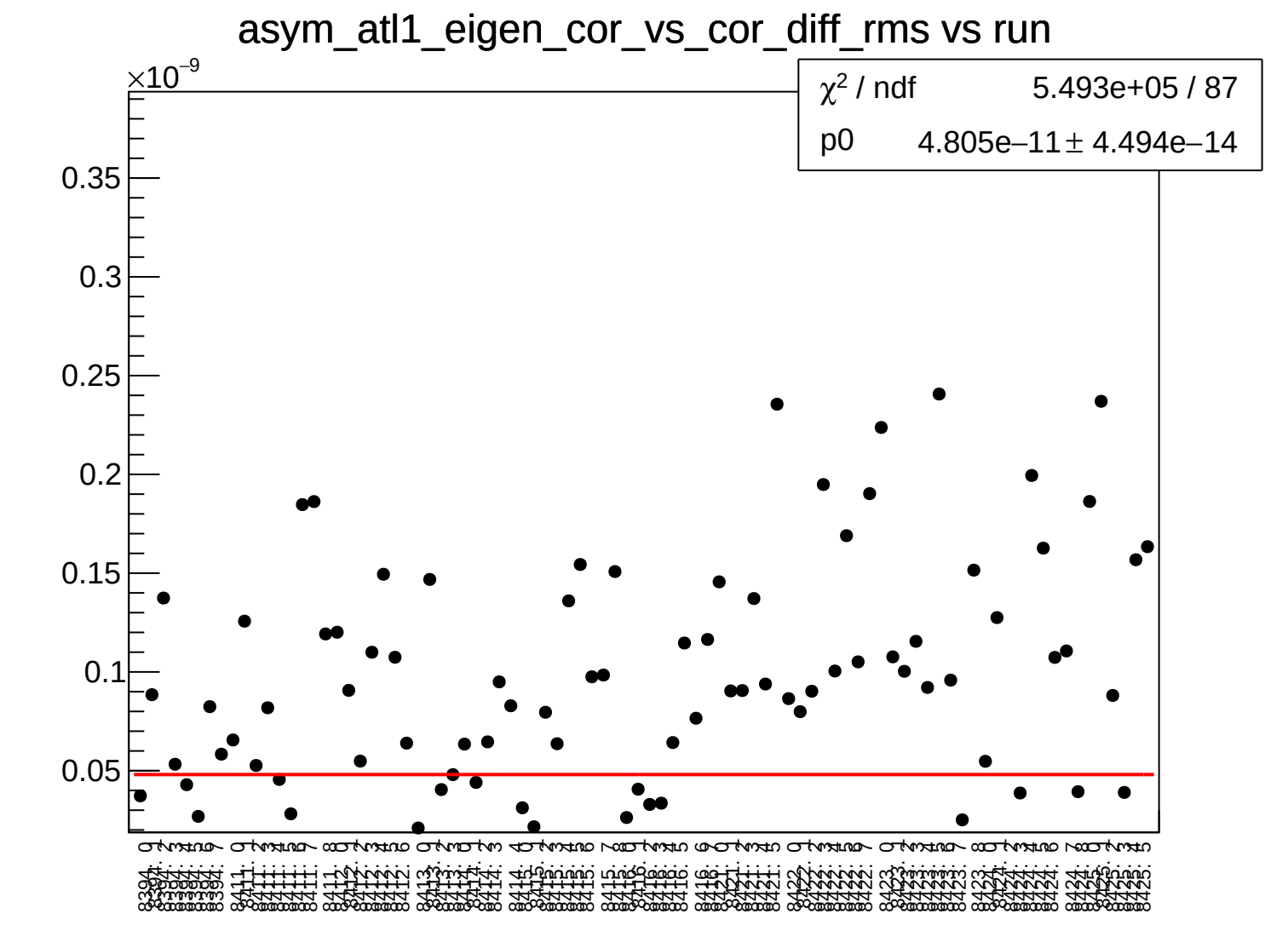

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.823e+05 / 87
p0 72.75 ± 0.06125
240
220
200
180
160
140
120
100
80
60
40
20

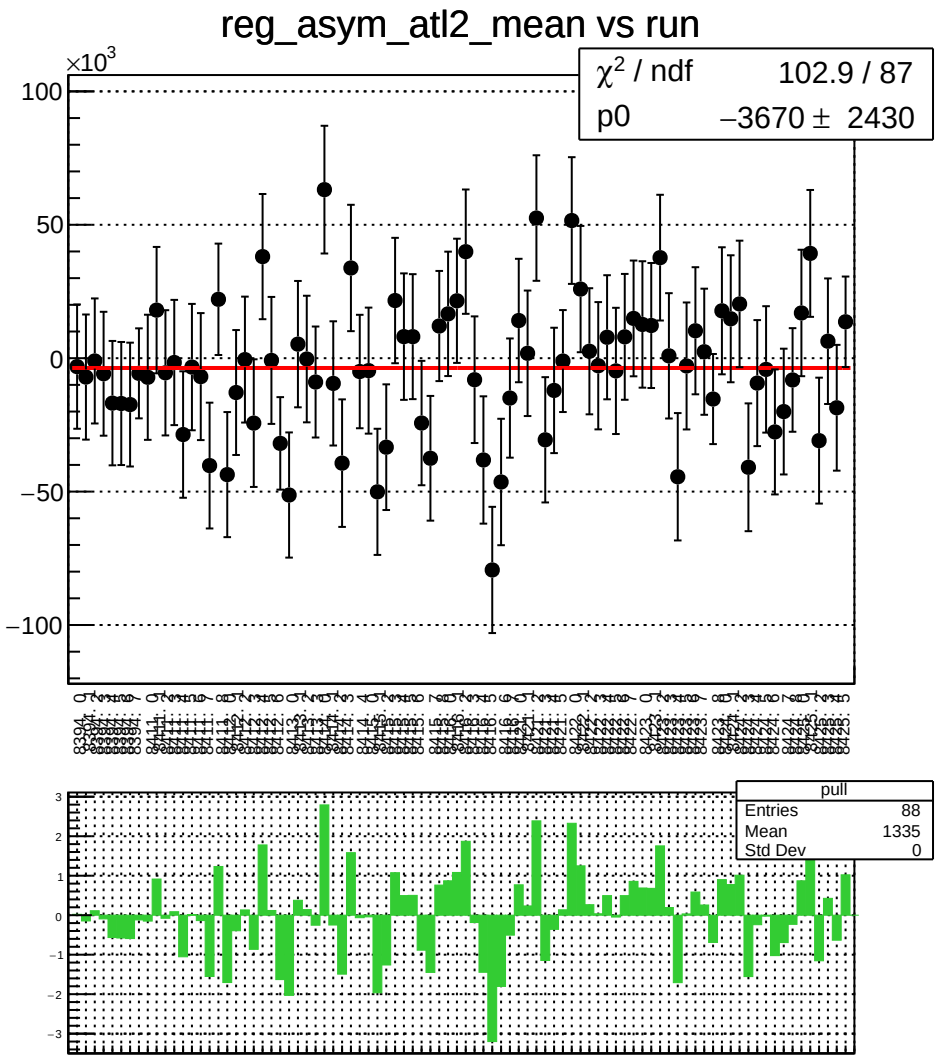

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.35 / 87
p0 0.07669 ± 0.08662
pull
Entries 88
Mean 52.09
Std Dev 37.05

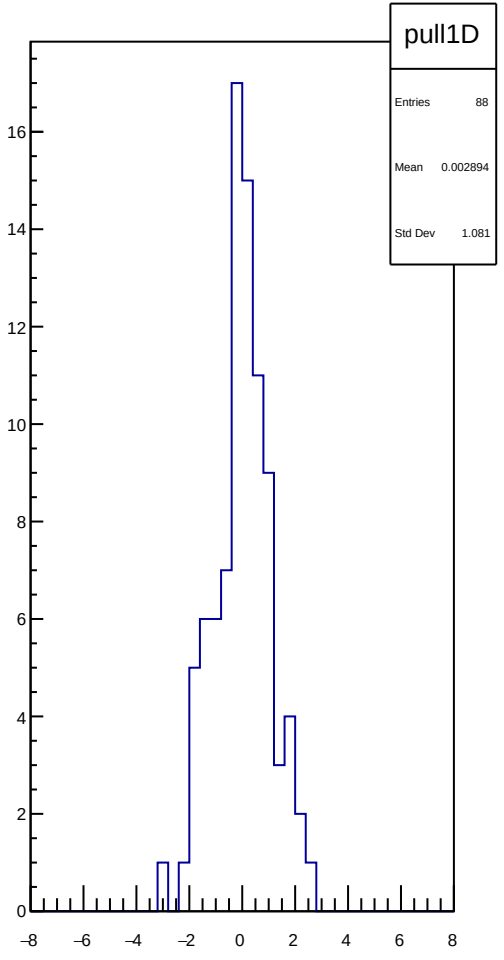

pull1D
Entries 88
Mean 0.04601
Std Dev 0.8737

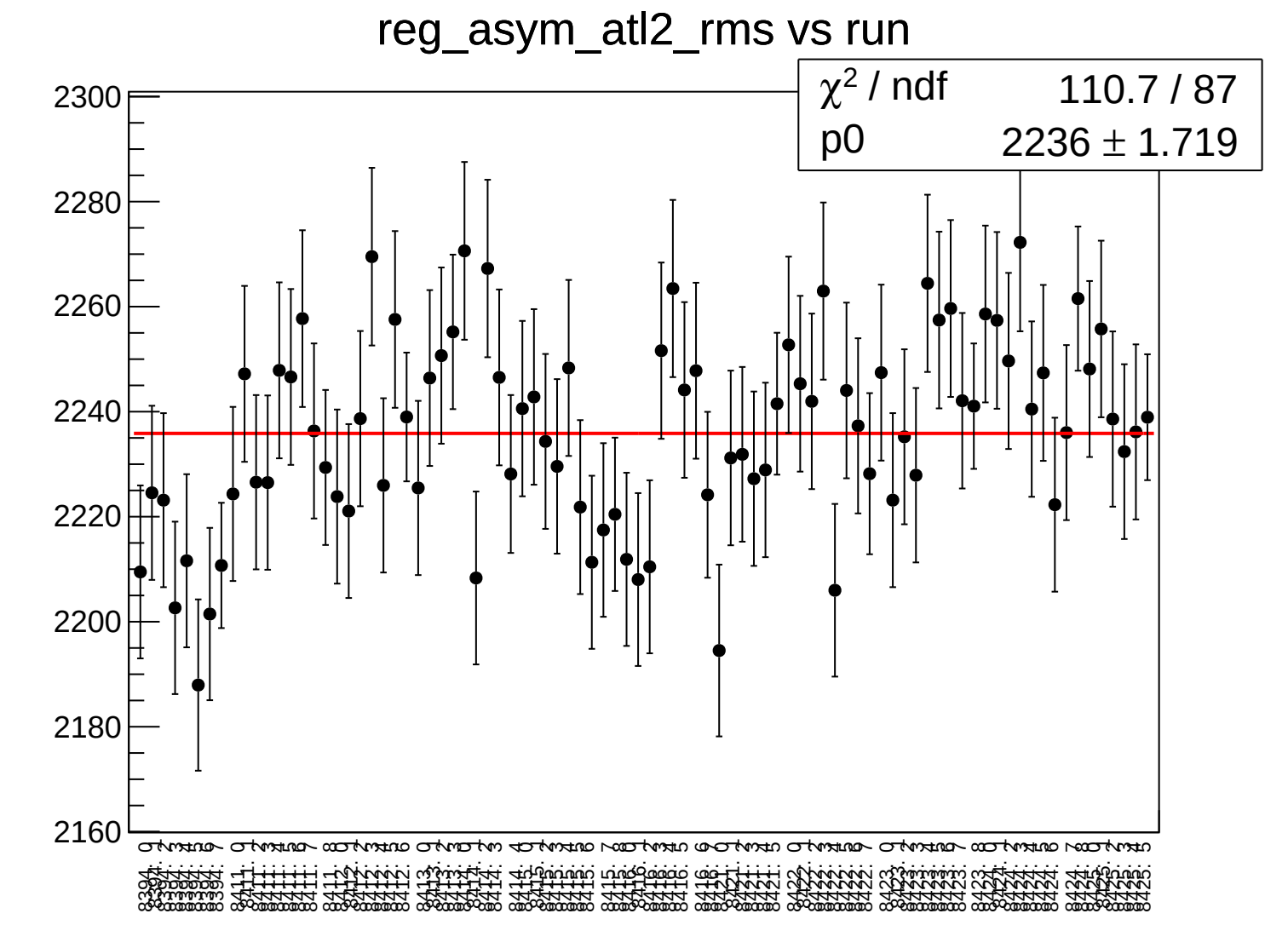

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.823e+05 / 87
p0 72.75 ± 0.06125
240
220
200
180
160
140
120
100
80
60
40
20

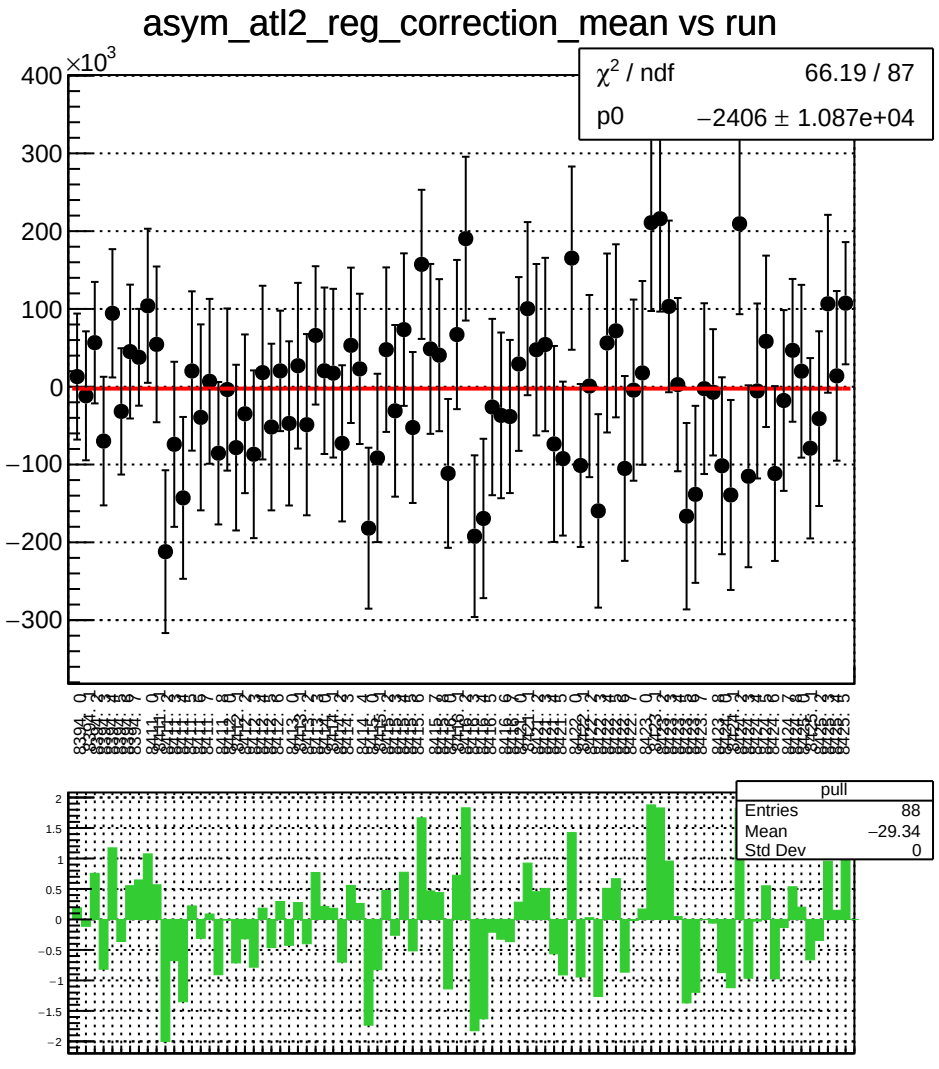

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 110.2 / 87
p0 −1.164e−14 ± 6.355e−14
pull
Entries 88
Mean 164.8
Std Dev 0
pull1D
Entries 88
Mean 0.03879
Std Dev 1.118

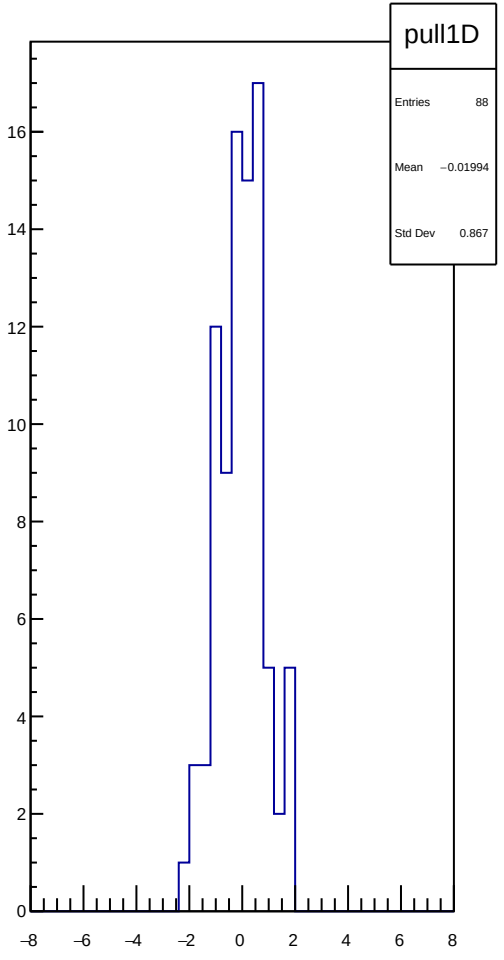

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.493e+05 / 87
p0 4.805e−11 ± 4.494e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

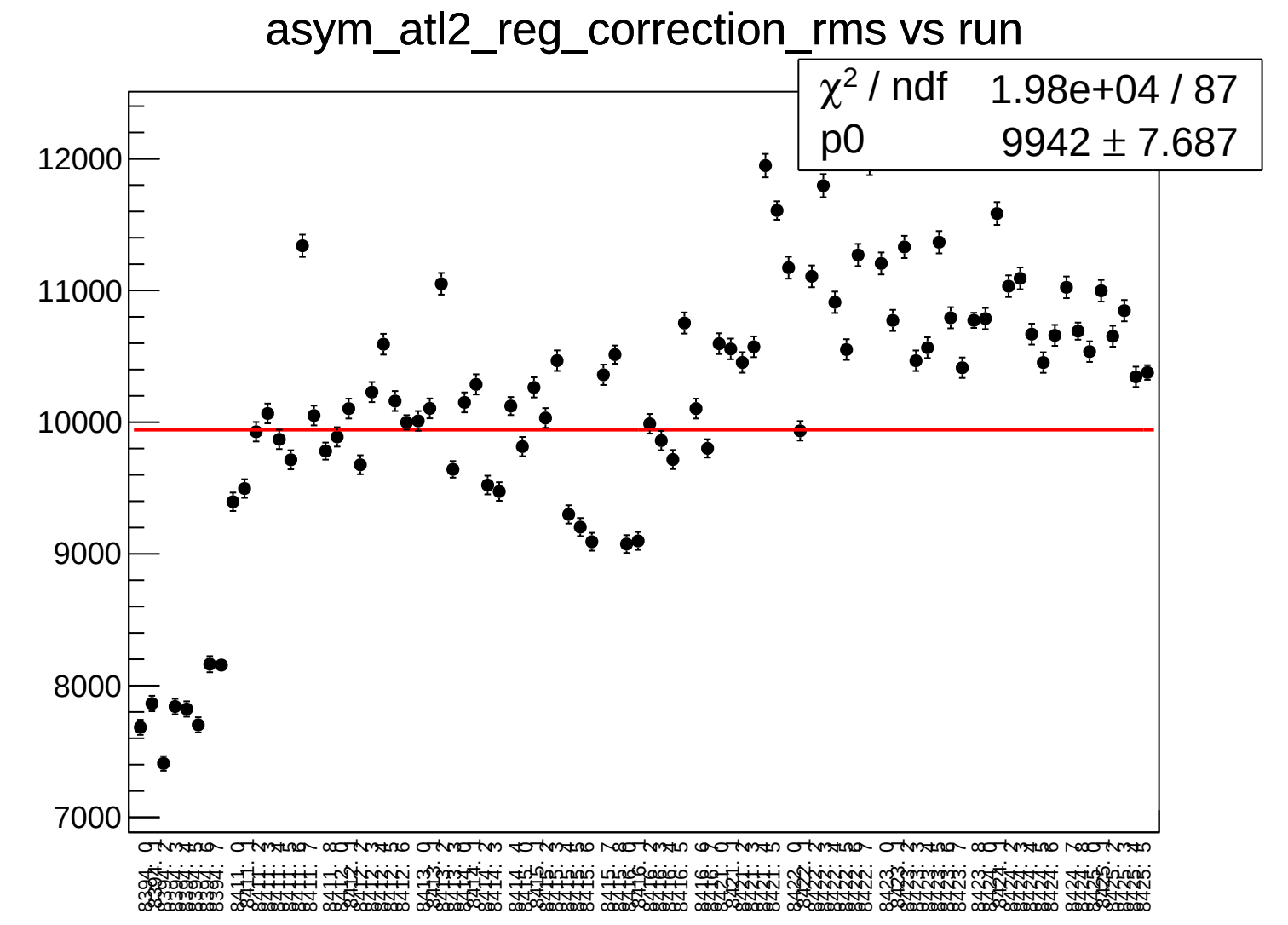

reg_asym_atl2_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 102.9 / 87
p0 −3670 ± 2430
pull
Entries 88
Mean 1335
Std Dev 0
3
2
1
0
−1
−2
−3

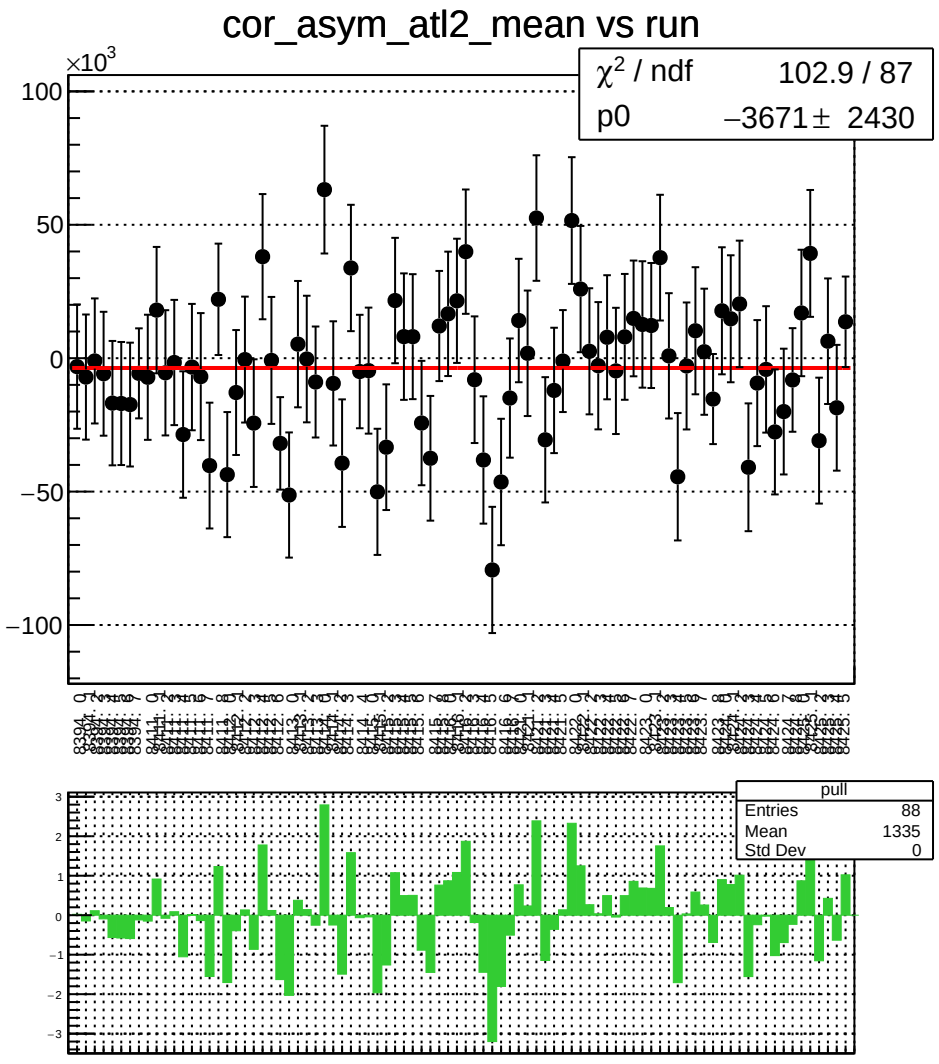

pull1D
Entries 88
Mean 0.002894
Std Dev 1.081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

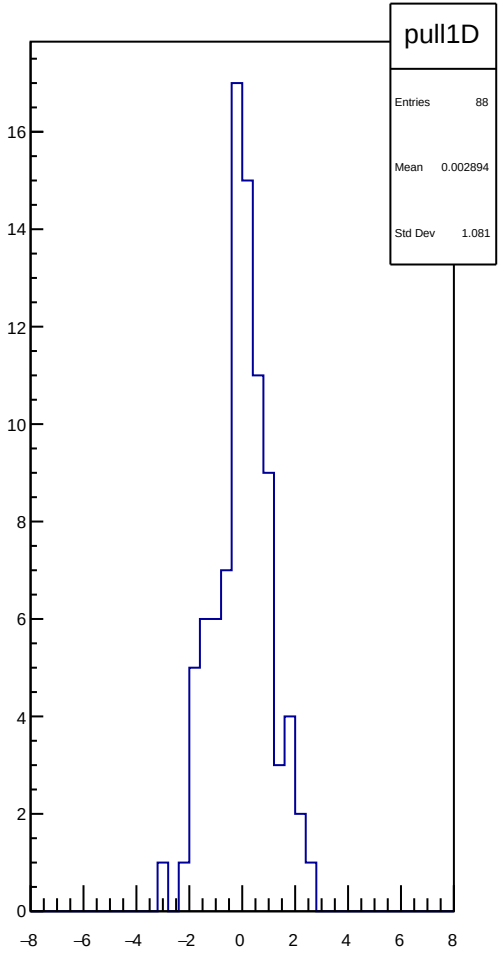

reg_asym_atl2_rms vs run
χ^2 / ndf 110.7 / 87
p0 2236 ± 1.719
2300
2280
2260
2240
2220
2200
2180
2160

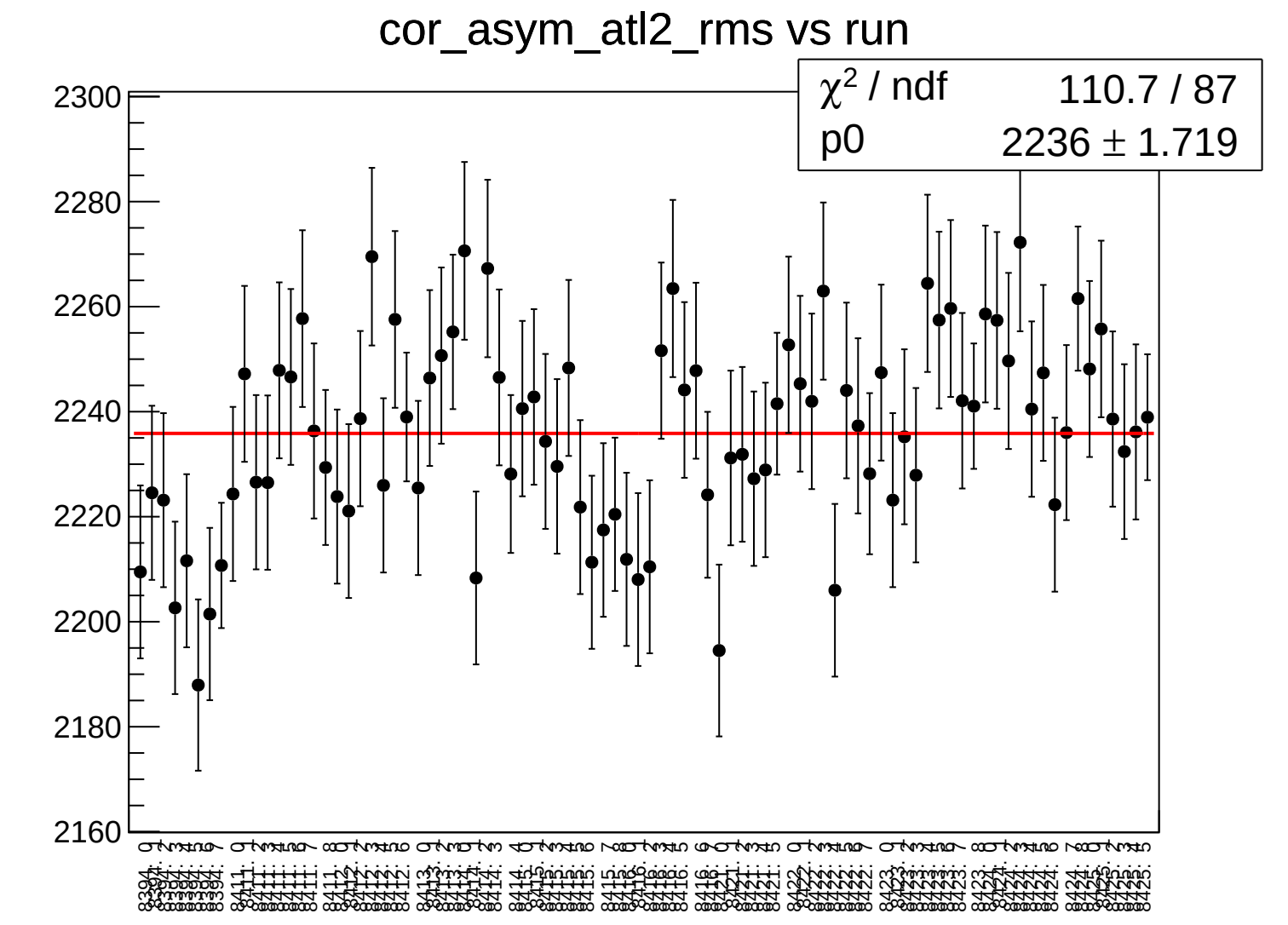

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 66.19 / 87
p0 −2406 ± 1.087e+04
pull
Entries 88
Mean −29.34
Std Dev 0

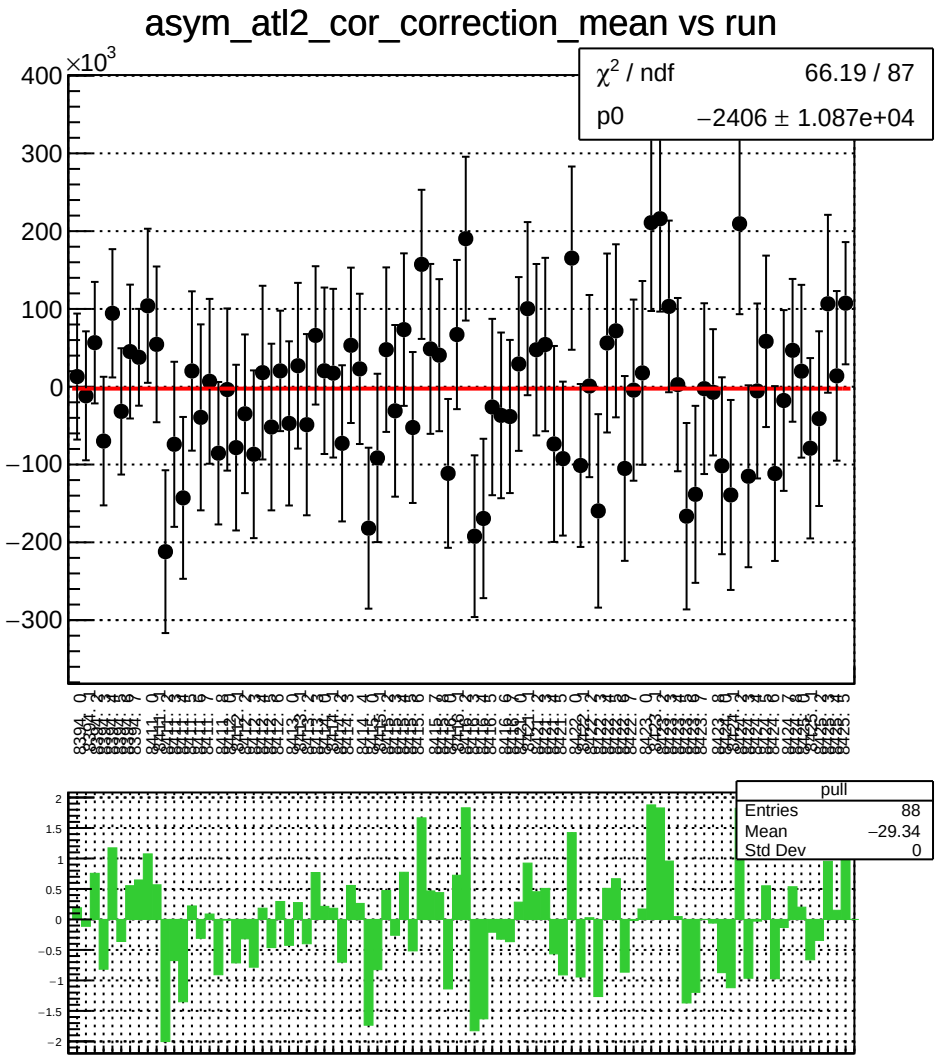

pull1D
Entries 88
Mean −0.01994
Std Dev 0.867

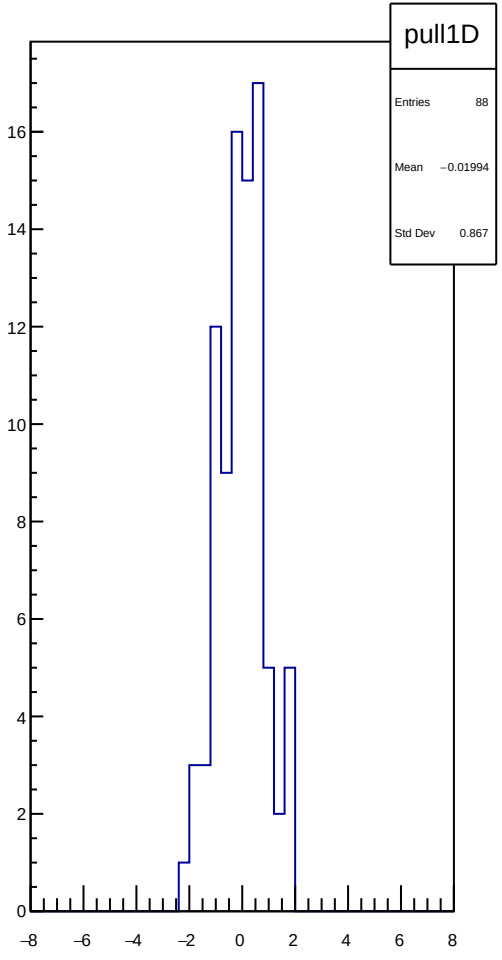

asym_atl2_reg_correction_rms vs run
χ² / ndf 1.98e+04 / 87
p0 9942 ± 7.687
12000
11000
10000
9000
8000
7000

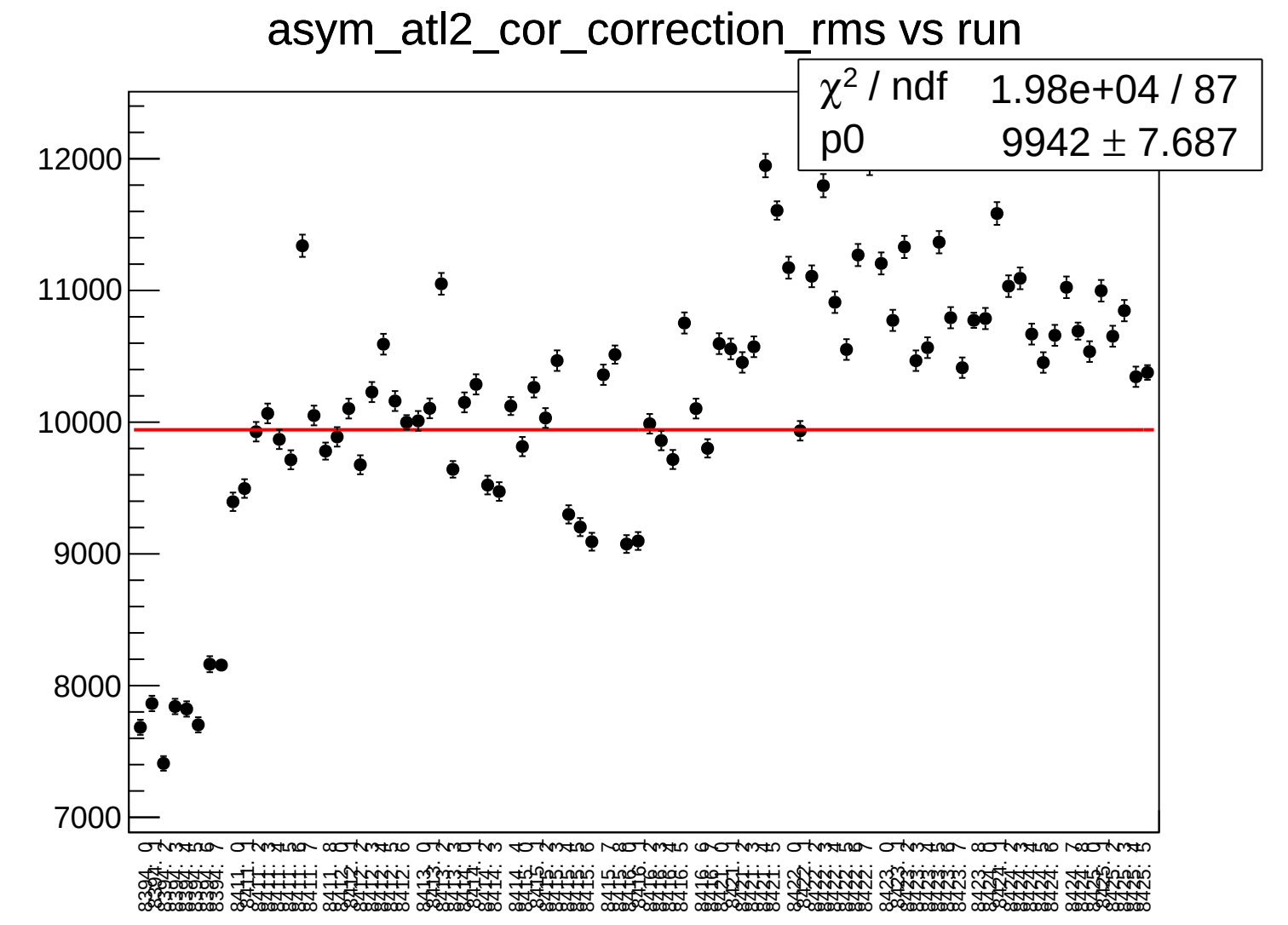

cor_asym_atl2_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 102.9 / 87
p0 −3671 ± 2430
pull
Entries 88
Mean 1335
Std Dev 0
3
2
1
0
−1
−2
−3

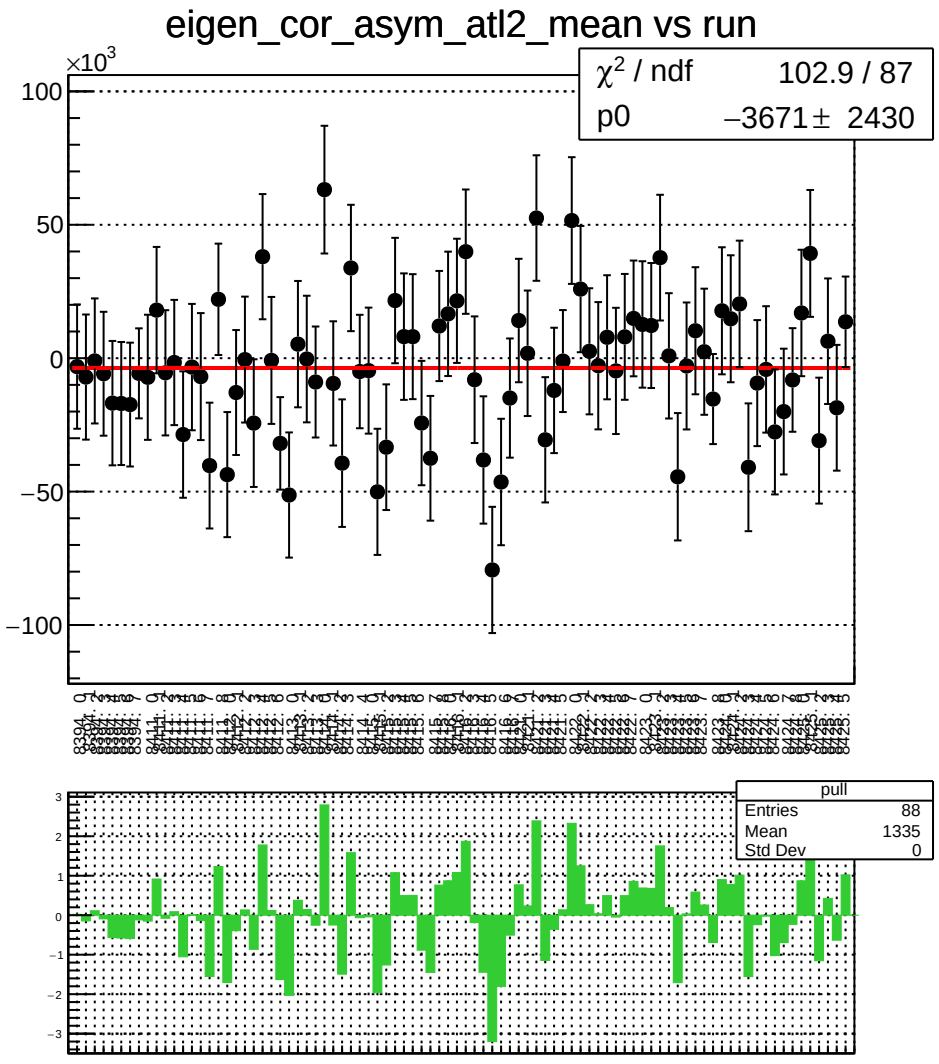

pull1D
Entries 88
Mean 0.002894
Std Dev 1.081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

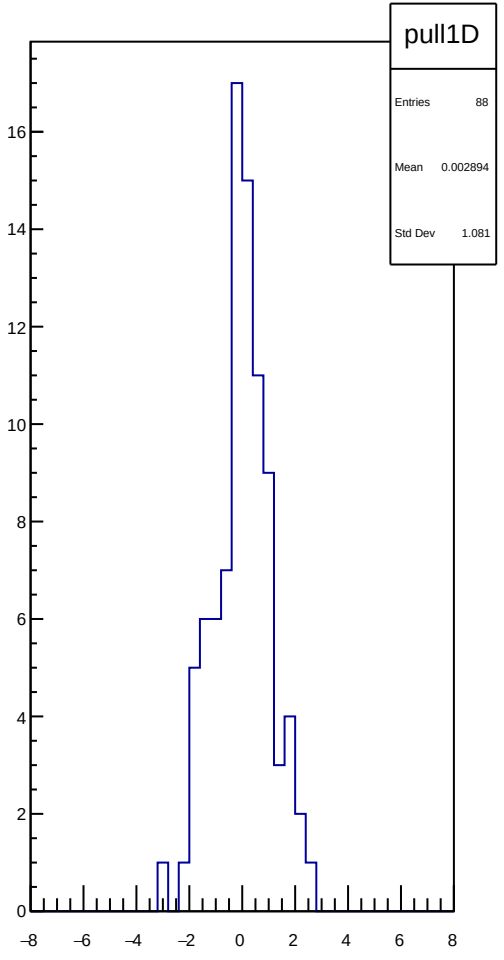

cor_asym_atl2_rms vs run
χ^2 / ndf 110.7 / 87
p0 2236 ± 1.719
2300
2280
2260
2240
2220
2200
2180
2160

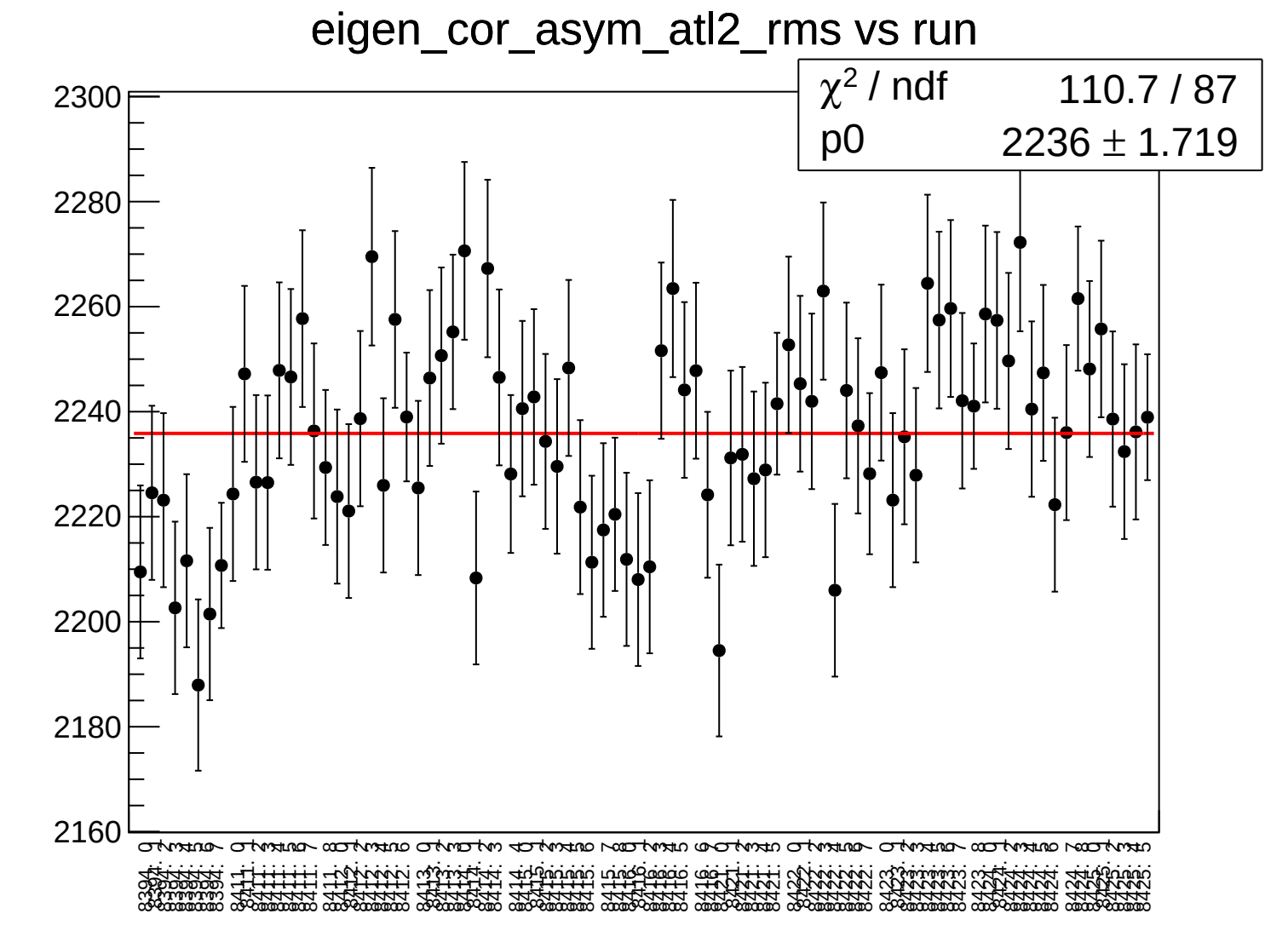

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 66.19 / 87
p0 −2406 ± 1.087e+04
pull
Entries 88
Mean −29.34
Std Dev 0

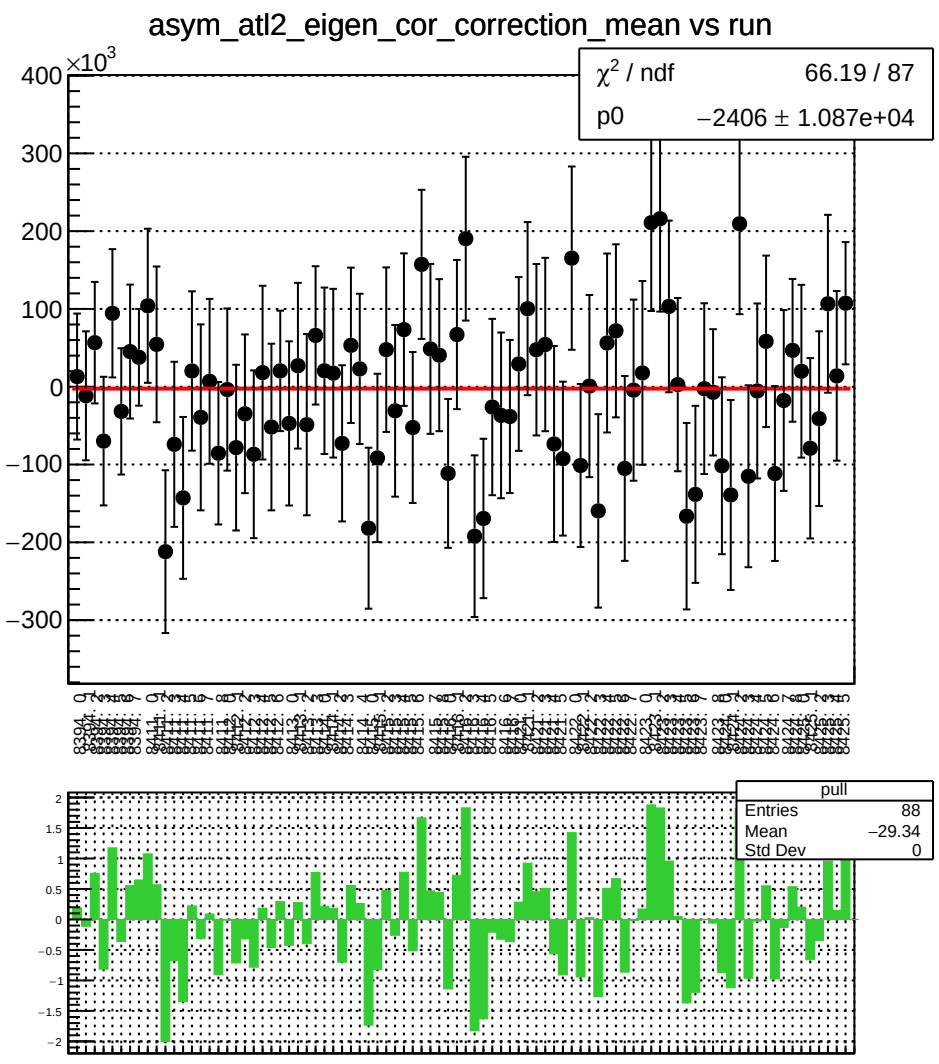

pull1D
Entries 88
Mean −0.01994
Std Dev 0.867

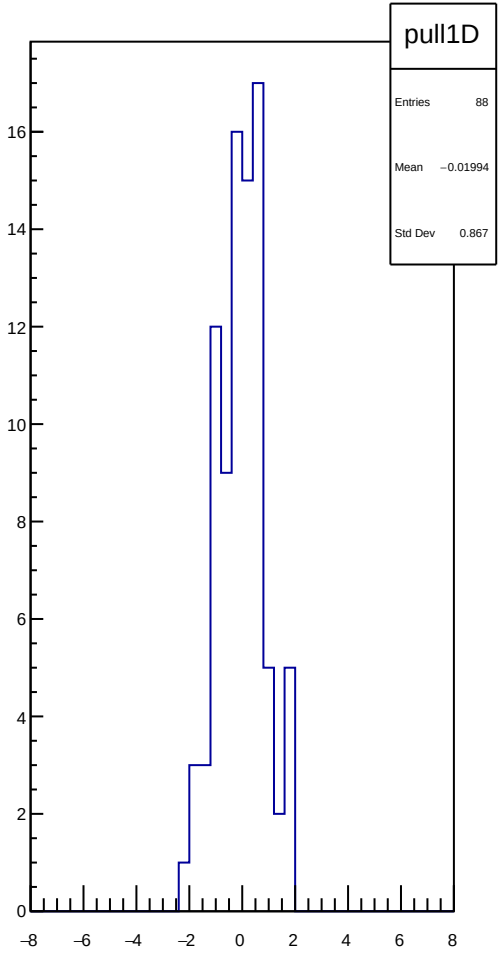

asym_atl2_cor_correction_rms vs run
χ² / ndf 1.98e+04 / 87
p0 9942 ± 7.687
12000
11000
10000
9000
8000
7000

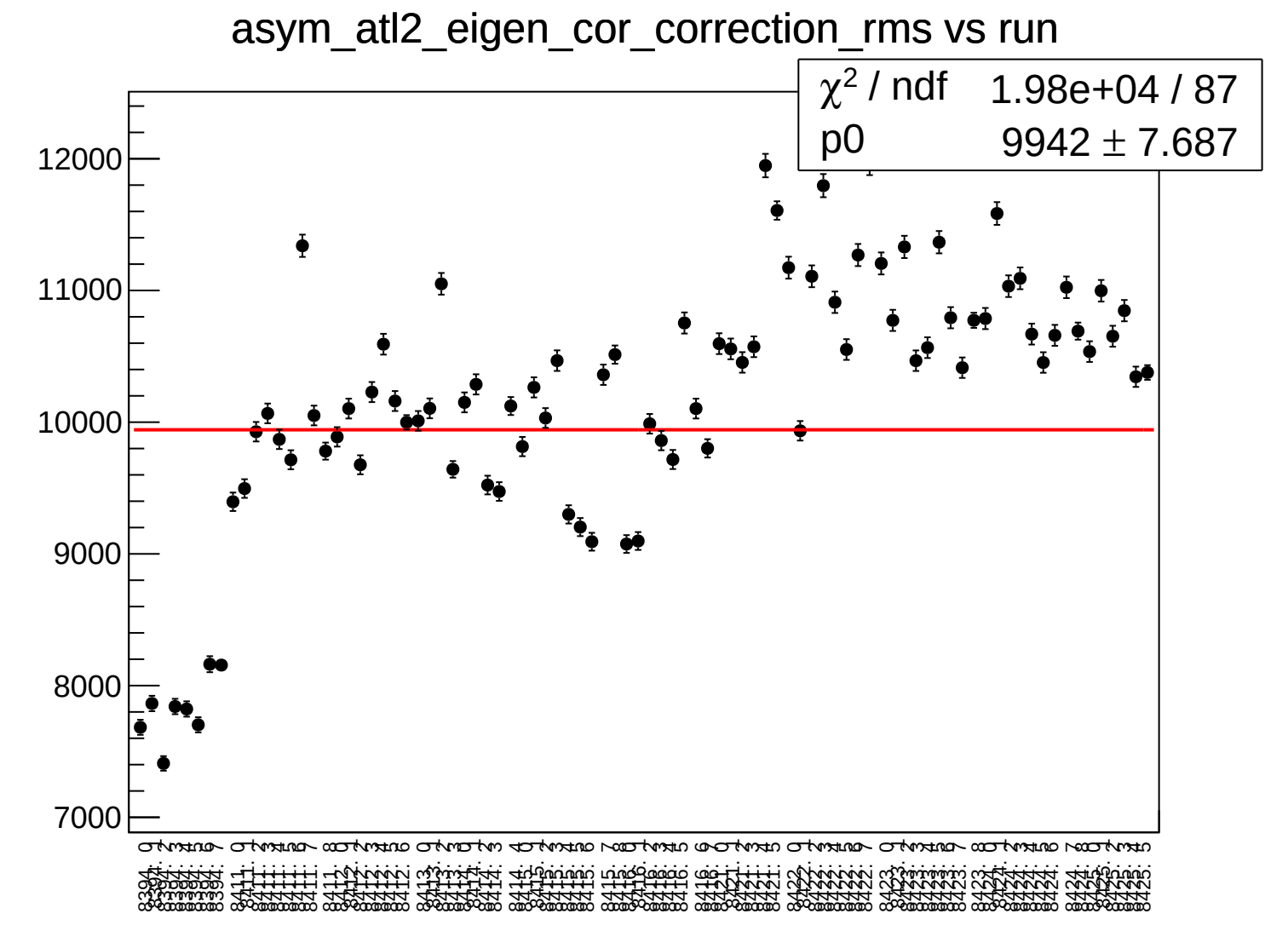

eigen_cor_asym_atl2_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 102.9 / 87
p0 −3671 ± 2430
pull
Entries 88
Mean 1335
Std Dev 0
3
2
1
0
−1
−2
−3

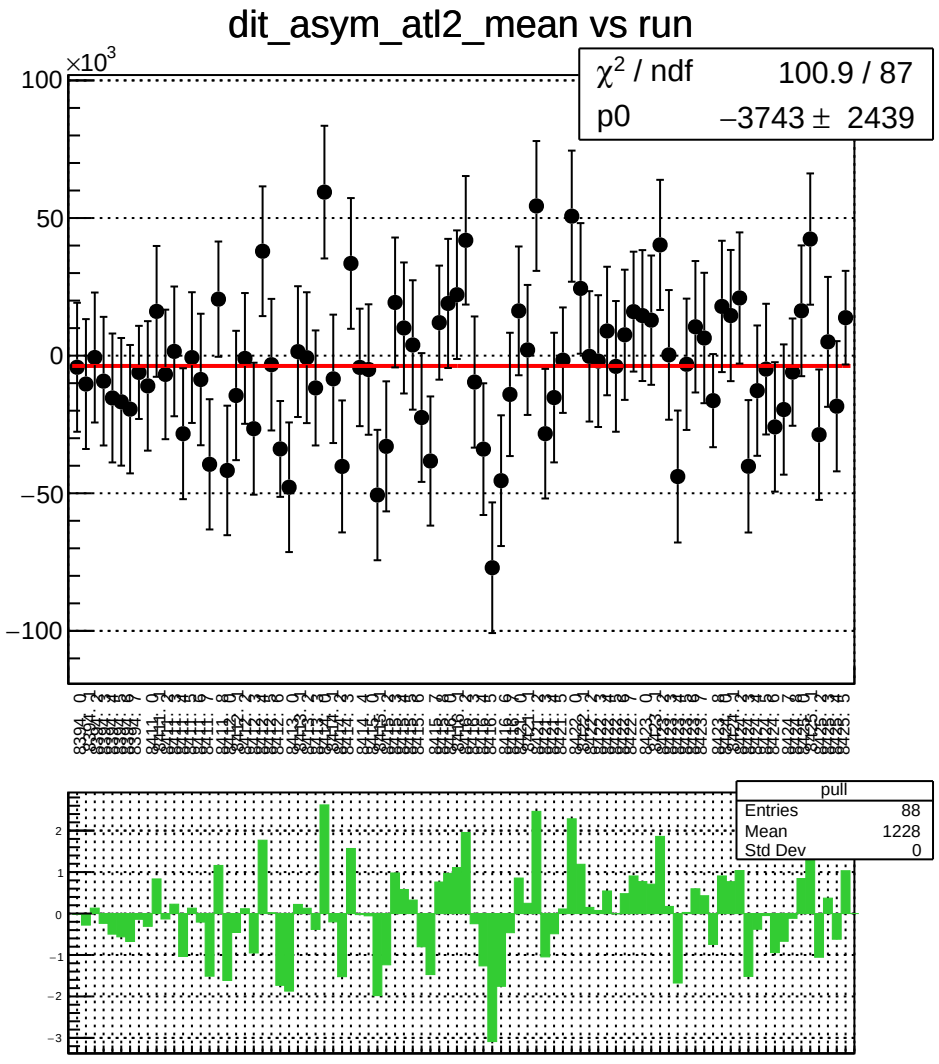

pull1D
Entries 88
Mean 0.002894
Std Dev 1.081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

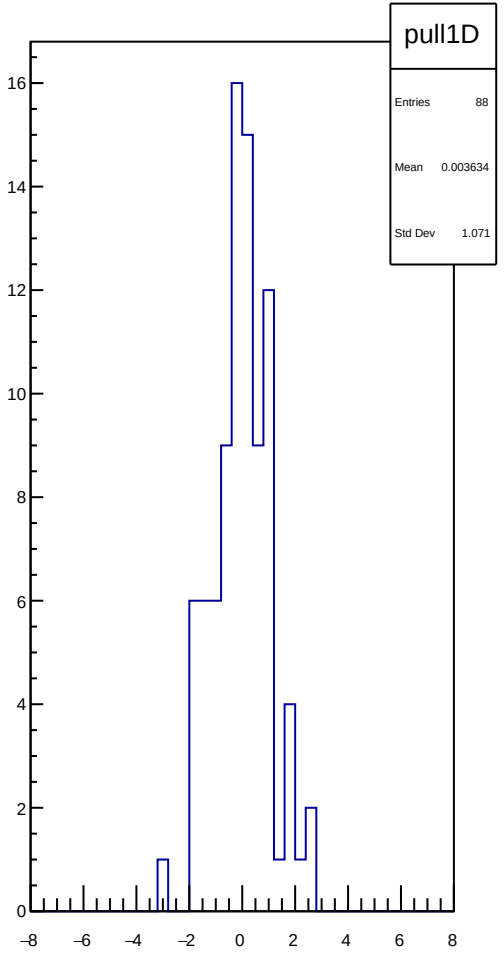

eigen_cor_asym_atl2_rms vs run
χ² / ndf 110.7 / 87
p0 2236 ± 1.719
2300
2280
2260
2240
2220
2200
2180
2160

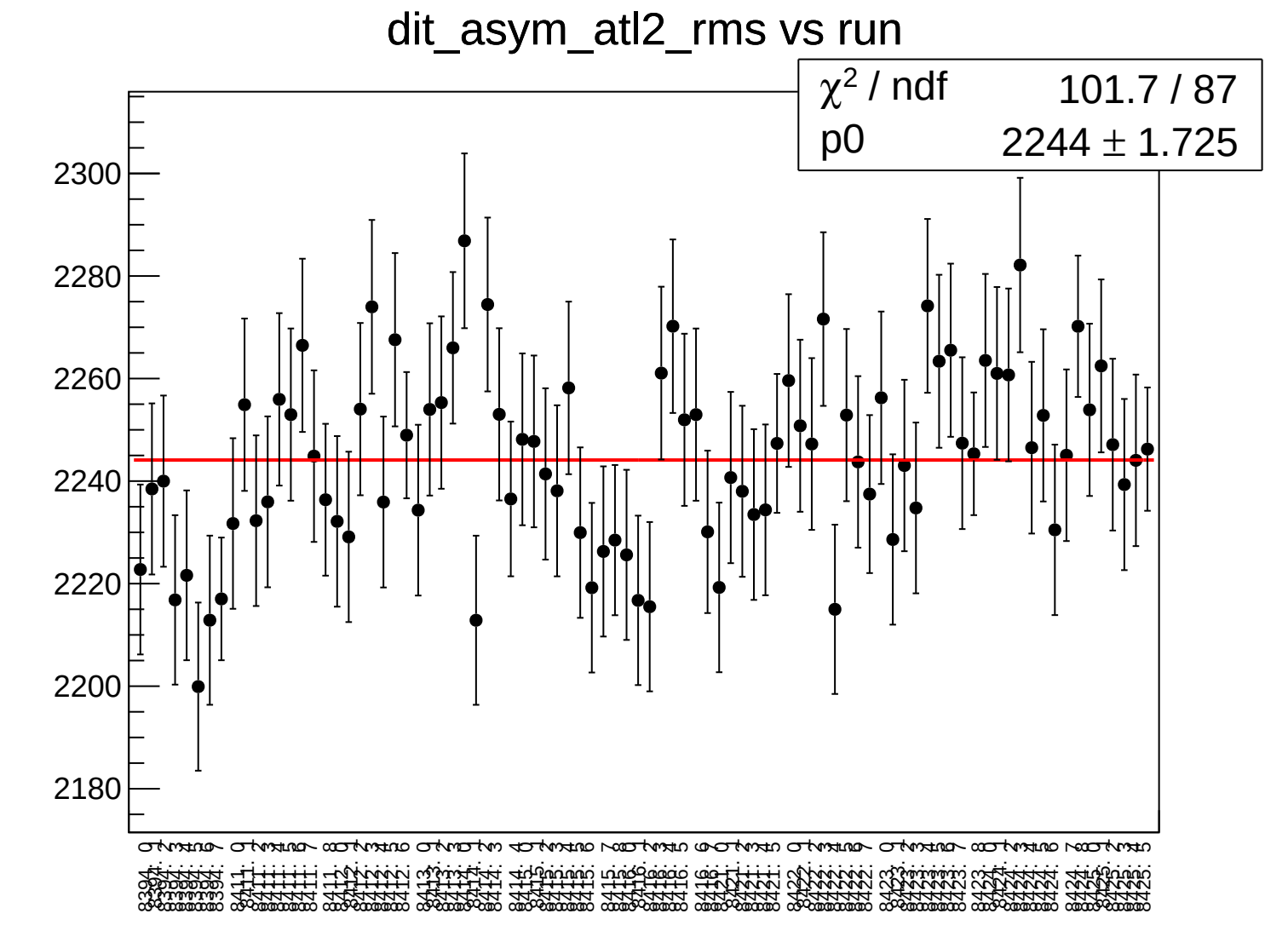

asym_atl2_eigen_cor_correction_mean vs run
×10^3
400
300
200
100
0
−100
−200
−300
χ² / ndf 66.19 / 87
p0 −2406 ± 1.087e+04
pull
Entries 88
Mean −29.34
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

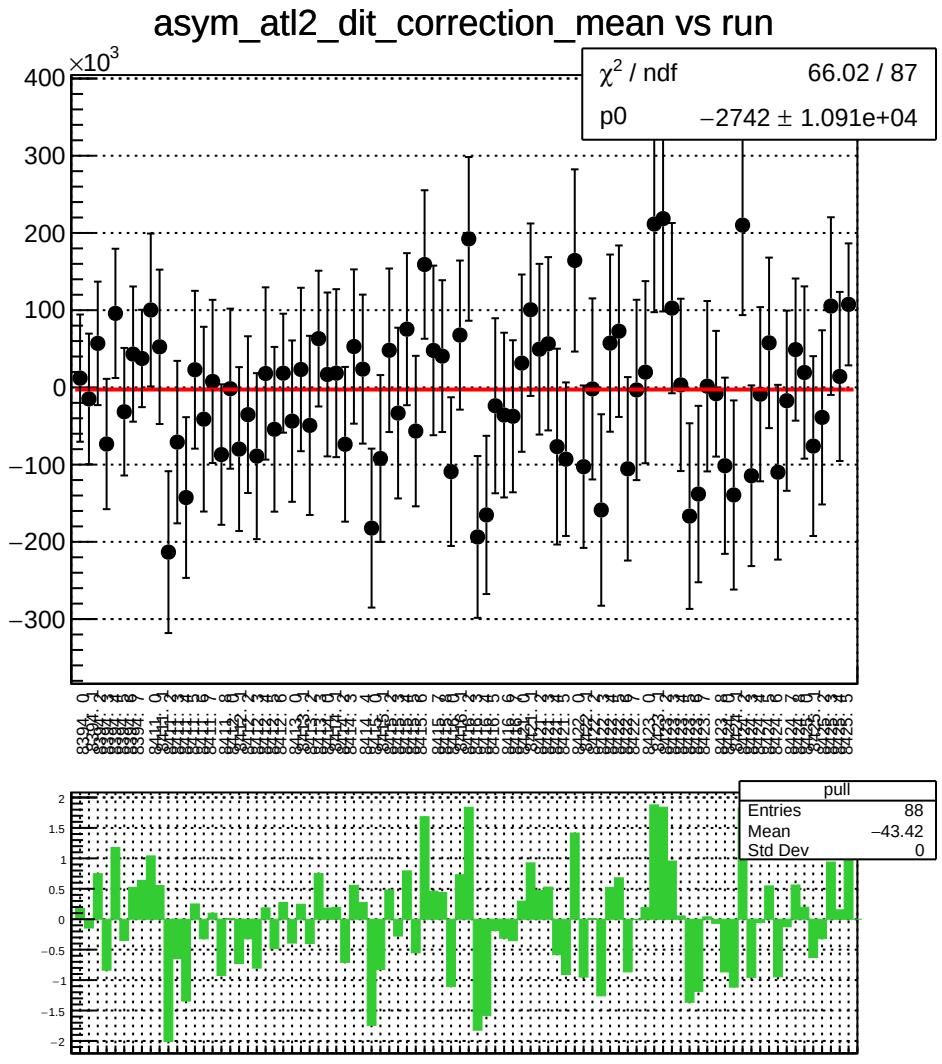

pull1D
Entries 88
Mean −0.01994
Std Dev 0.867
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

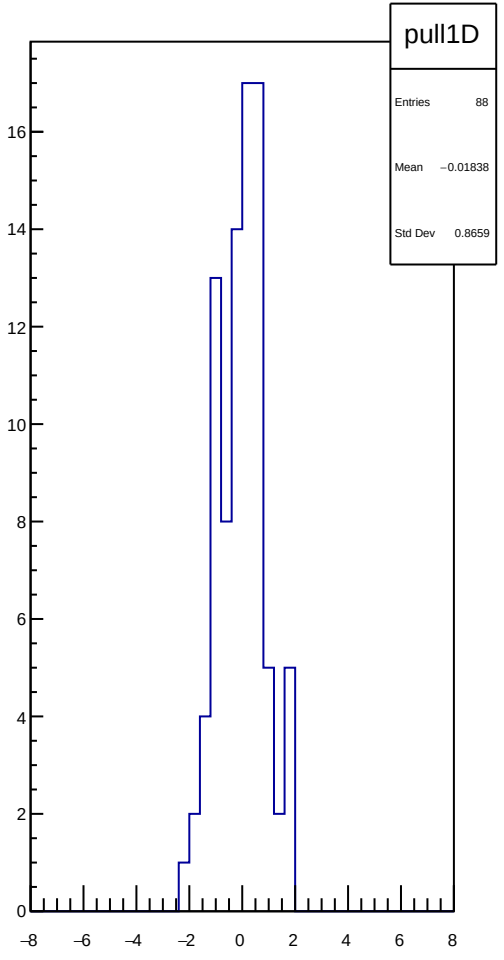

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 1.98e+04 / 87
p0 9942 ± 7.687
12000
11000
10000
9000
8000
7000

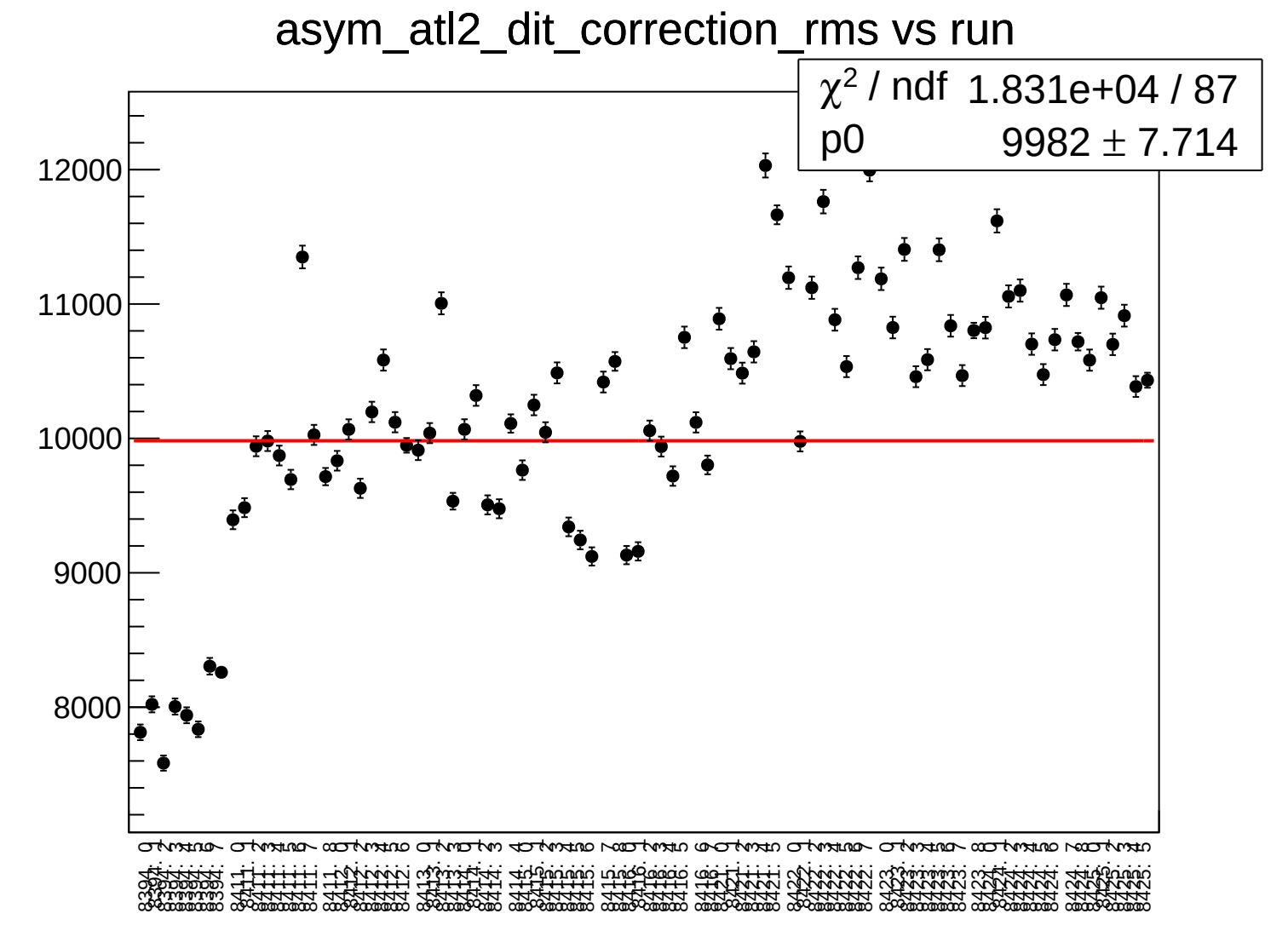

dit_asym_atl2_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 100.9 / 87
p0 −3743 ± 2439
pull
Entries 88
Mean 1228
Std Dev 0
2
1
0
−1
−2
−3

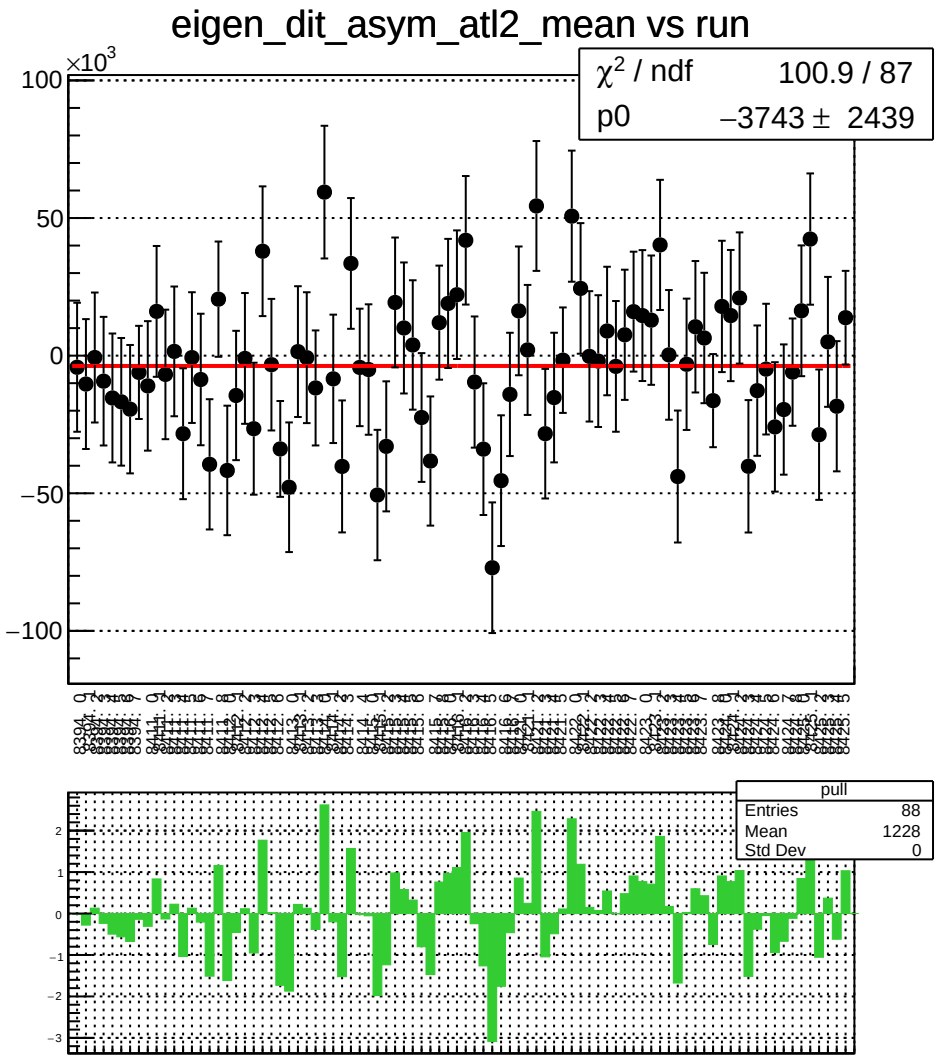

pull1D
Entries 88
Mean 0.003634
Std Dev 1.071
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

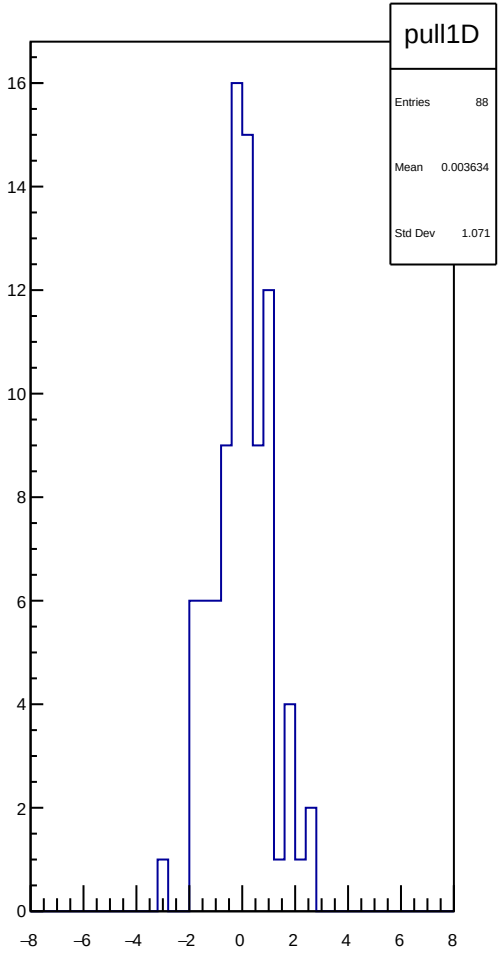

dit_asym_atl2_rms vs run
χ² / ndf 101.7 / 87
p0 2244 ± 1.725
2300
2280
2260
2240
2220
2200
2180

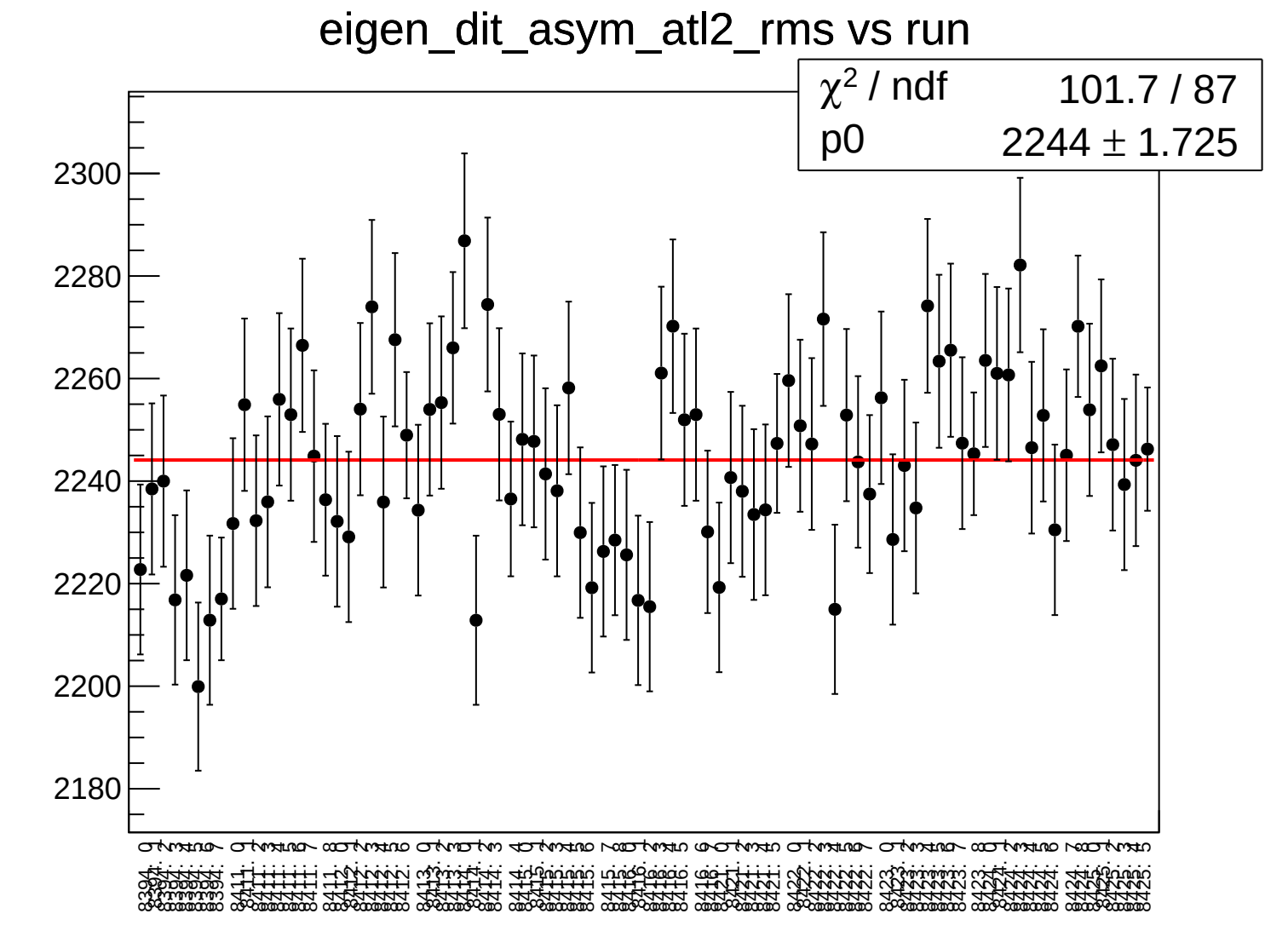

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 66.02 / 87
p0 −2742 ± 1.091e+04
pull
Entries 88
Mean −43.42
Std Dev 0

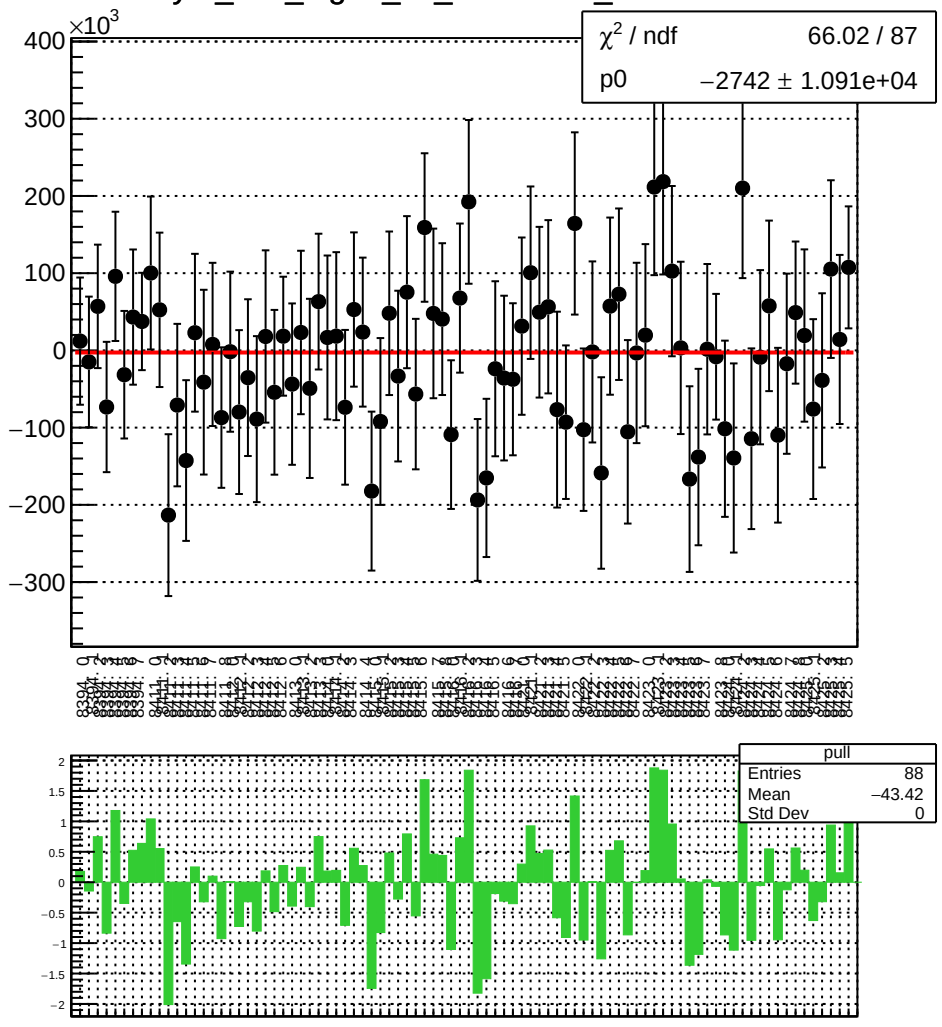

pull1D
Entries 88
Mean −0.01838
Std Dev 0.8659

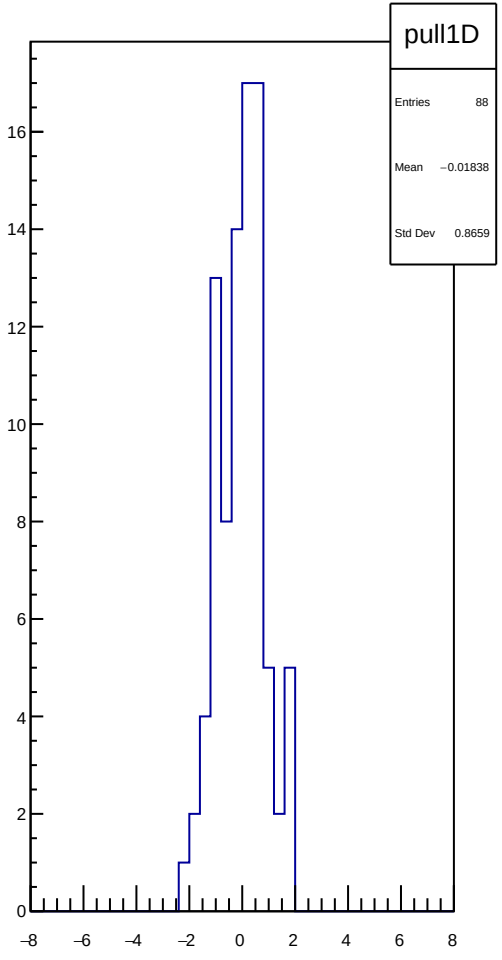

asym_atl2_dit_correction_rms vs run
χ² / ndf 1.831e+04 / 87
p0 9982 ± 7.714
12000
11000
10000
9000
8000

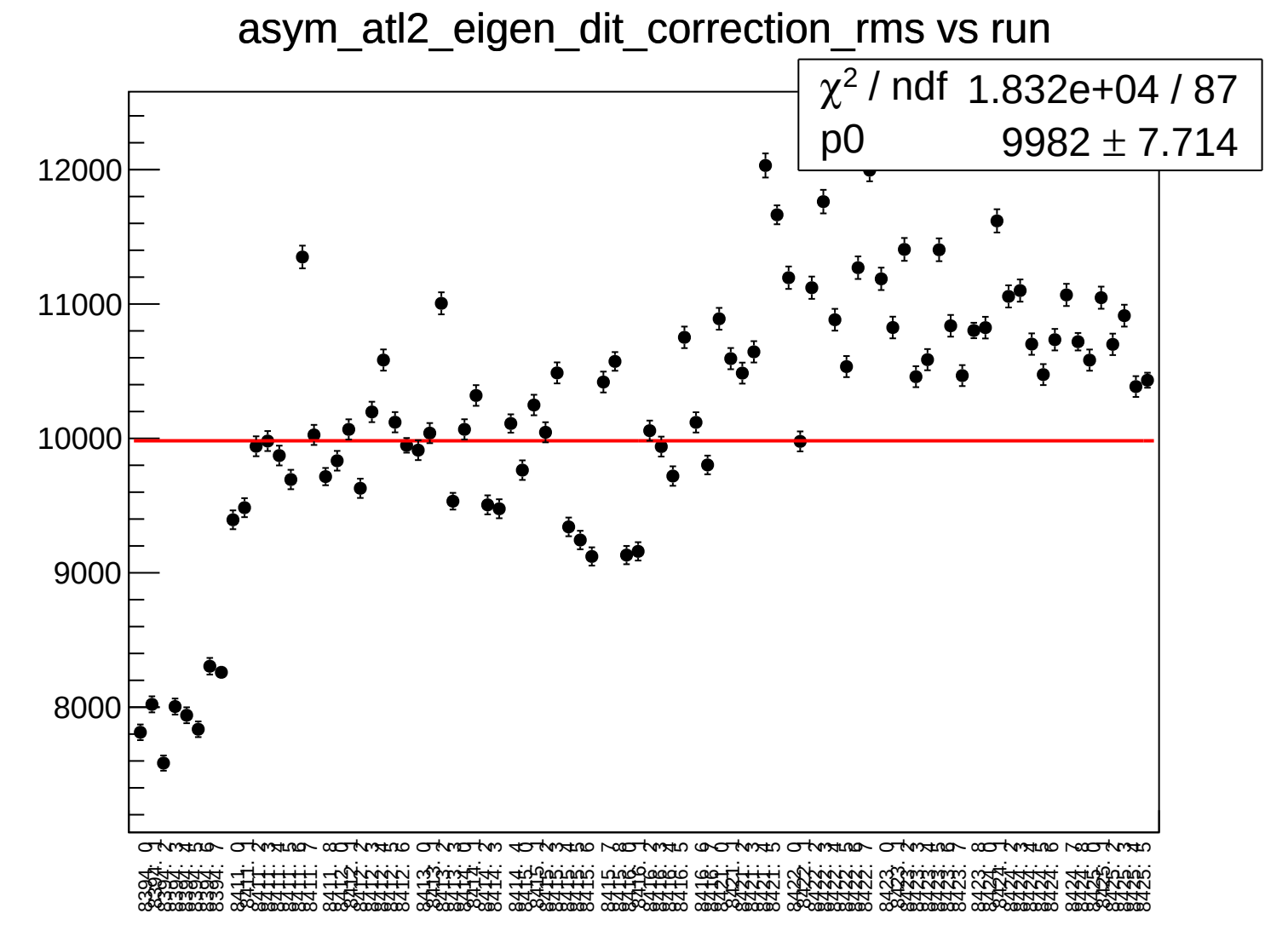

eigen_dit_asym_atl2_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 100.9 / 87
p0 −3743 ± 2439
pull
Entries 88
Mean 1228
Std Dev 0
2
1
0
−1
−2
−3

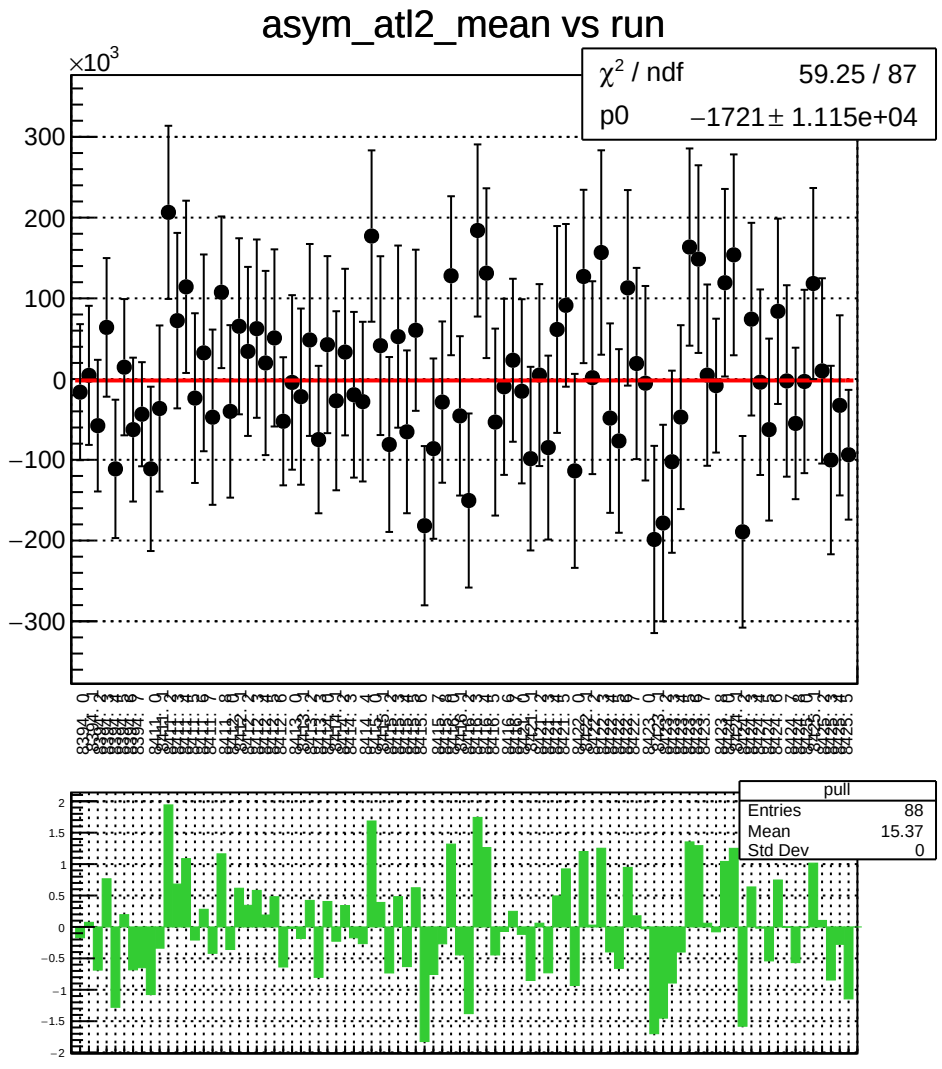

pull1D
Entries 88
Mean 0.003634
Std Dev 1.071
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

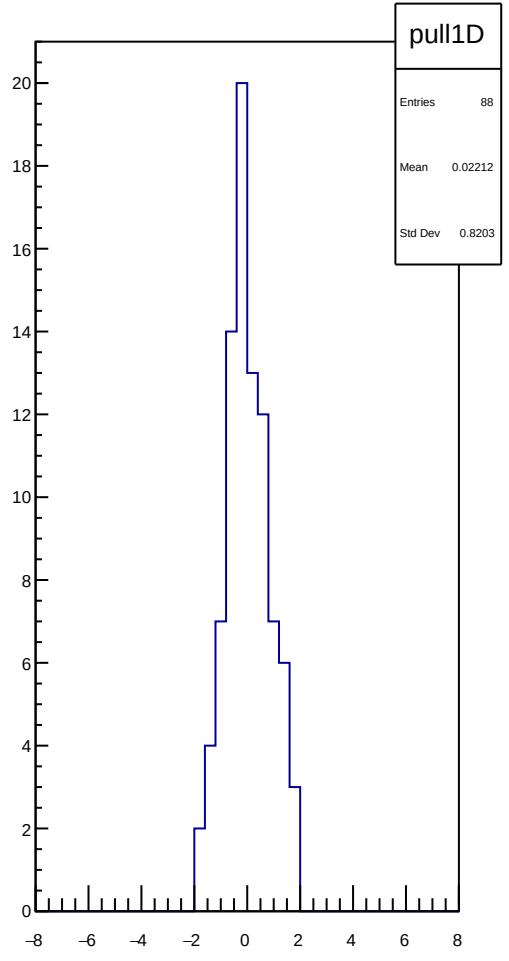

eigen_dit_asym_atl2_rms vs run
χ^2 / ndf 101.7 / 87
p0 2244 ± 1.725
2300
2280
2260
2240
2220
2200
2180

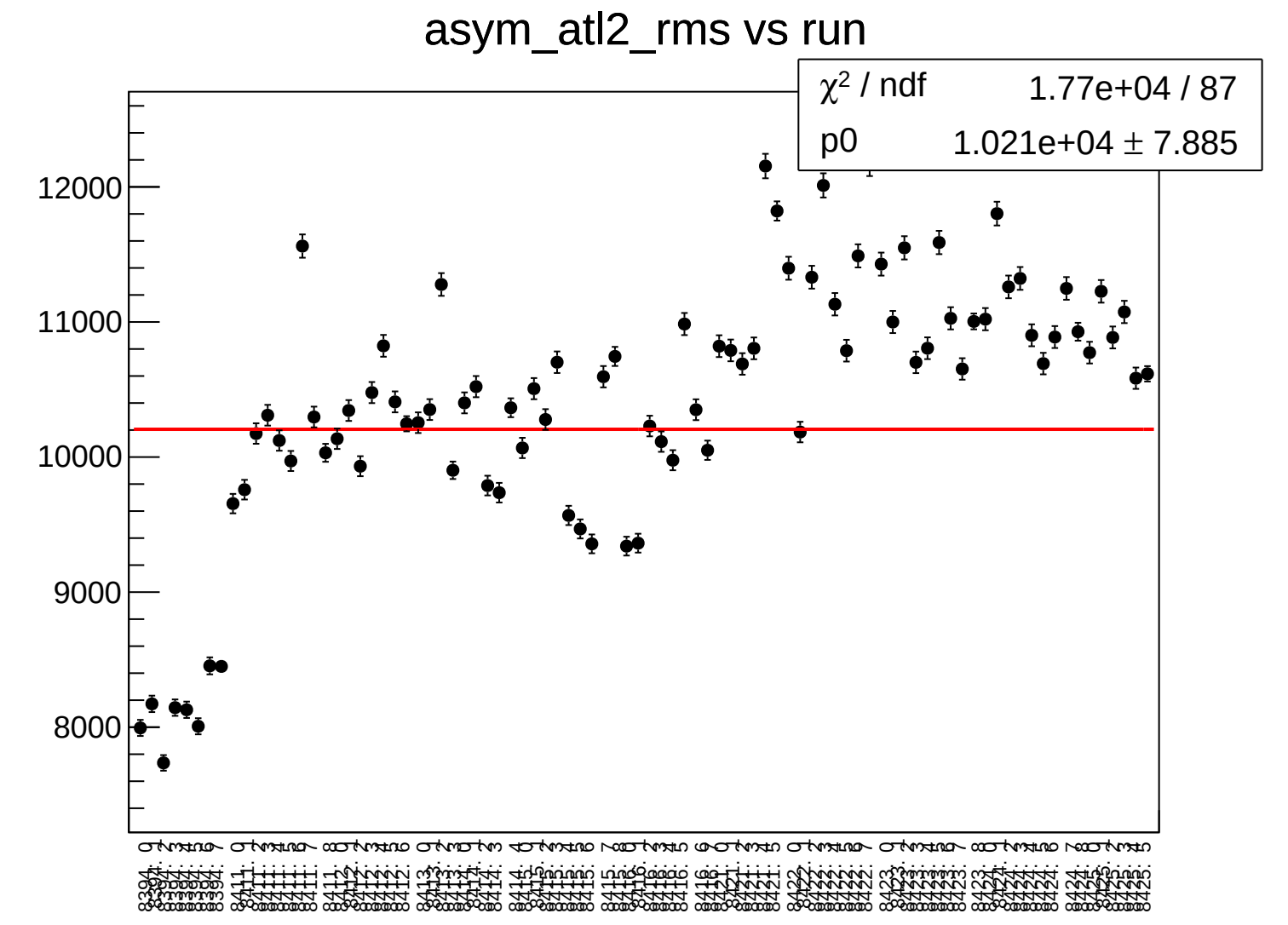

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 66.02 / 87
p0 −2742 ± 1.091e+04
pull
Entries 88
Mean −43.42
Std Dev 0

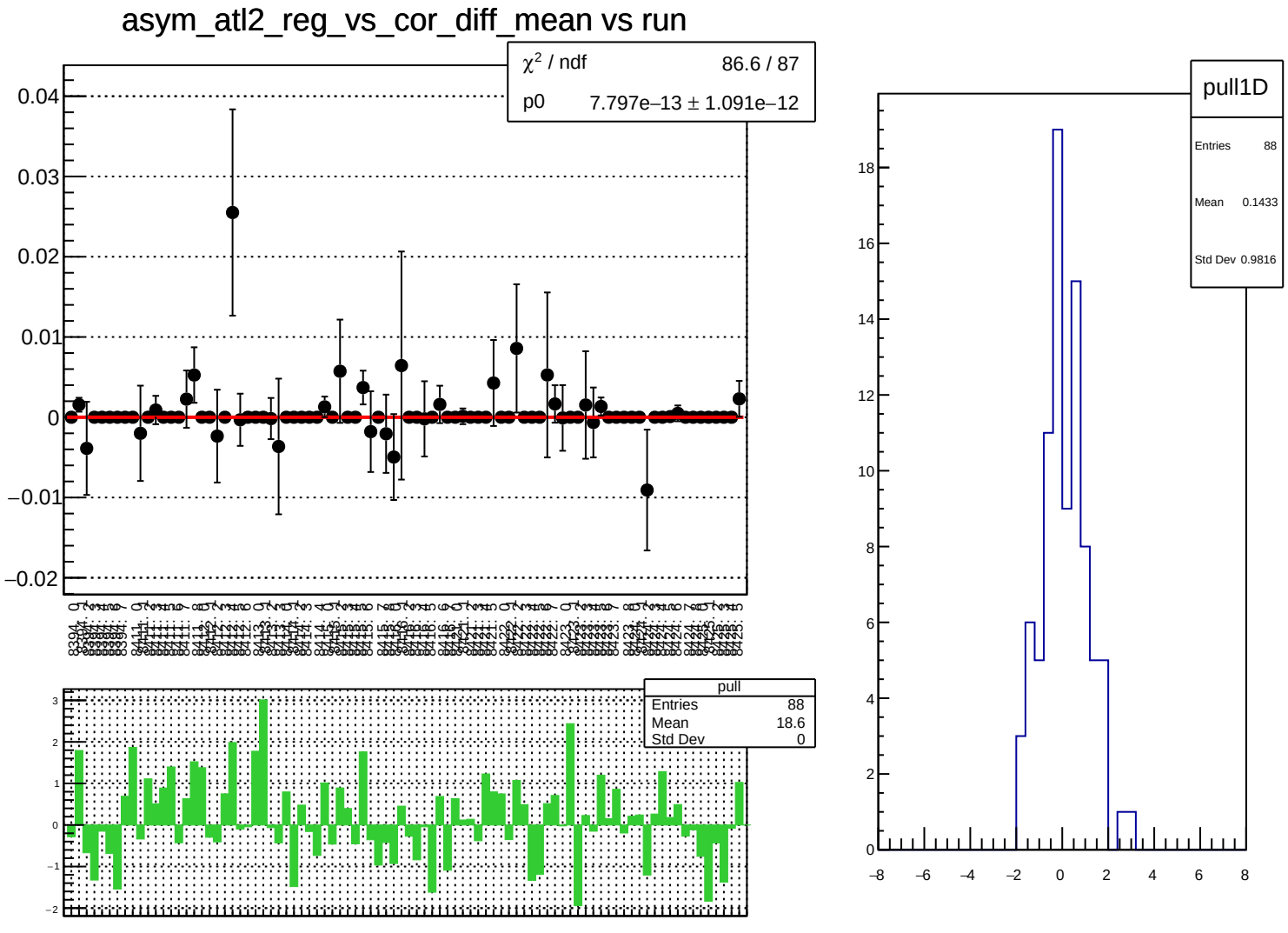

pull1D
Entries 88
Mean −0.01838
Std Dev 0.8659

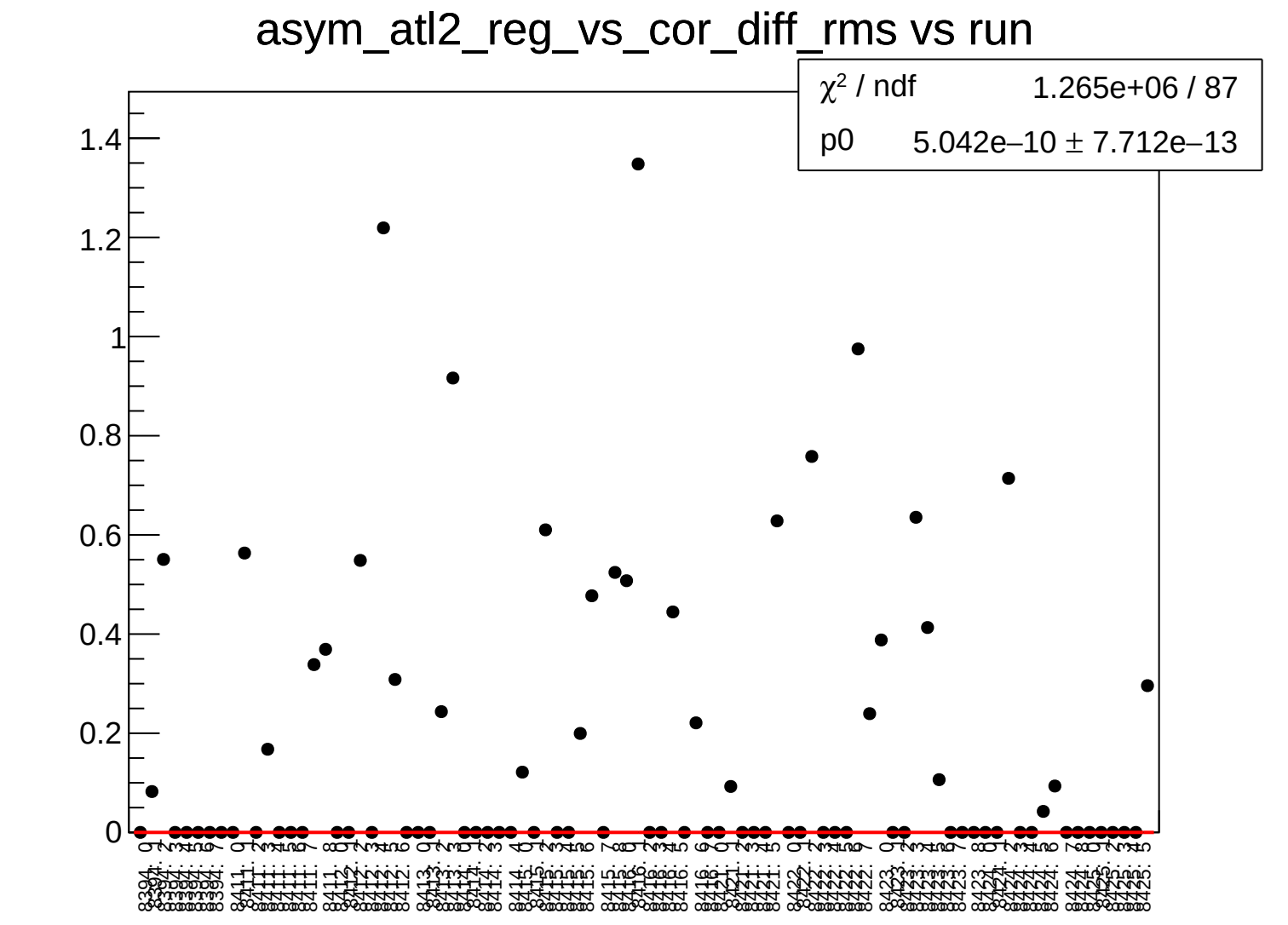

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 1.832e+04 / 87
p0 9982 ± 7.714
12000
11000
10000
9000
8000

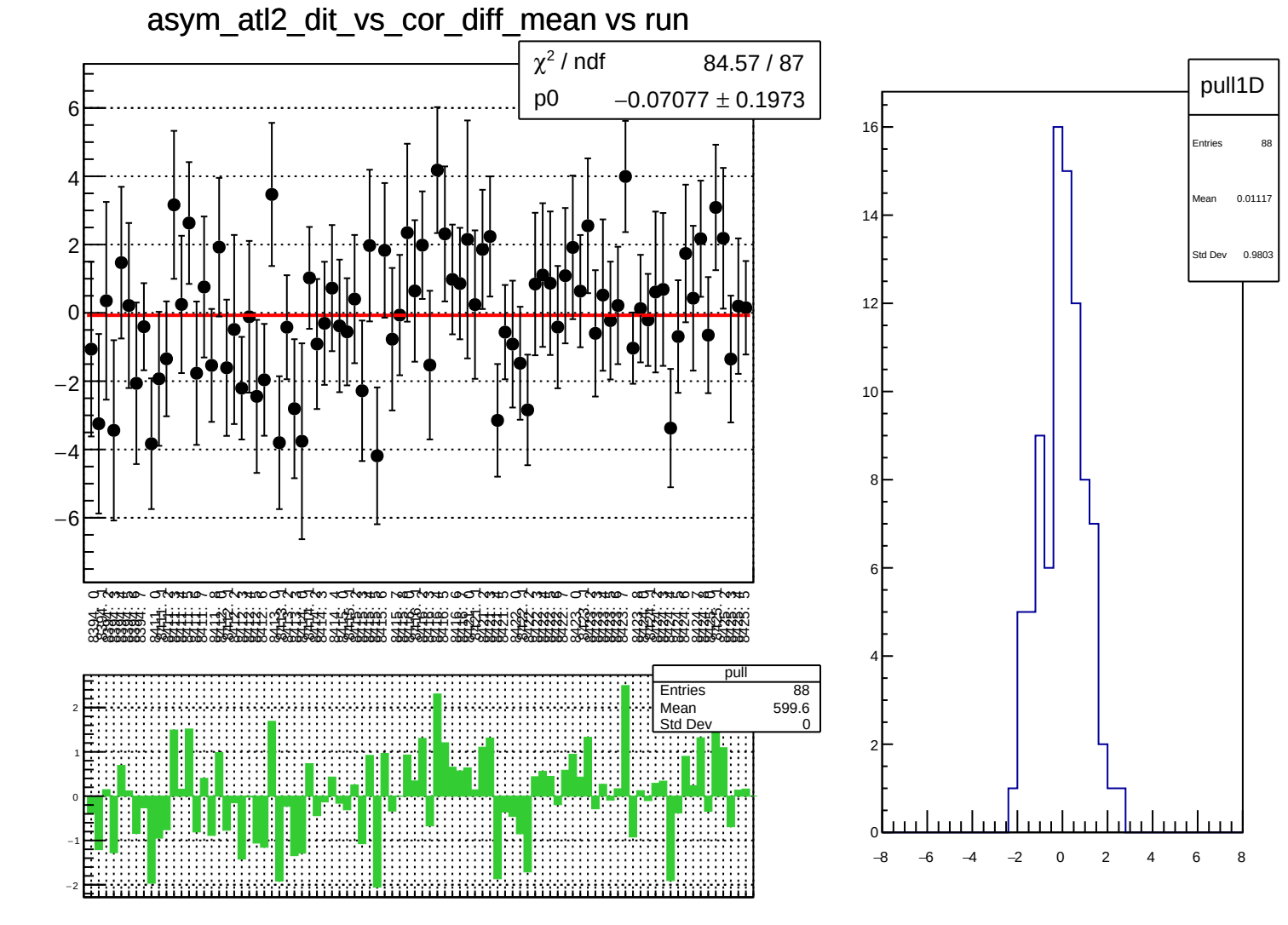

asym_atl2_mean vs run
×10^3
χ² / ndf 59.25 / 87
p0 −1721 ± 1.115e+04
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean 15.37
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

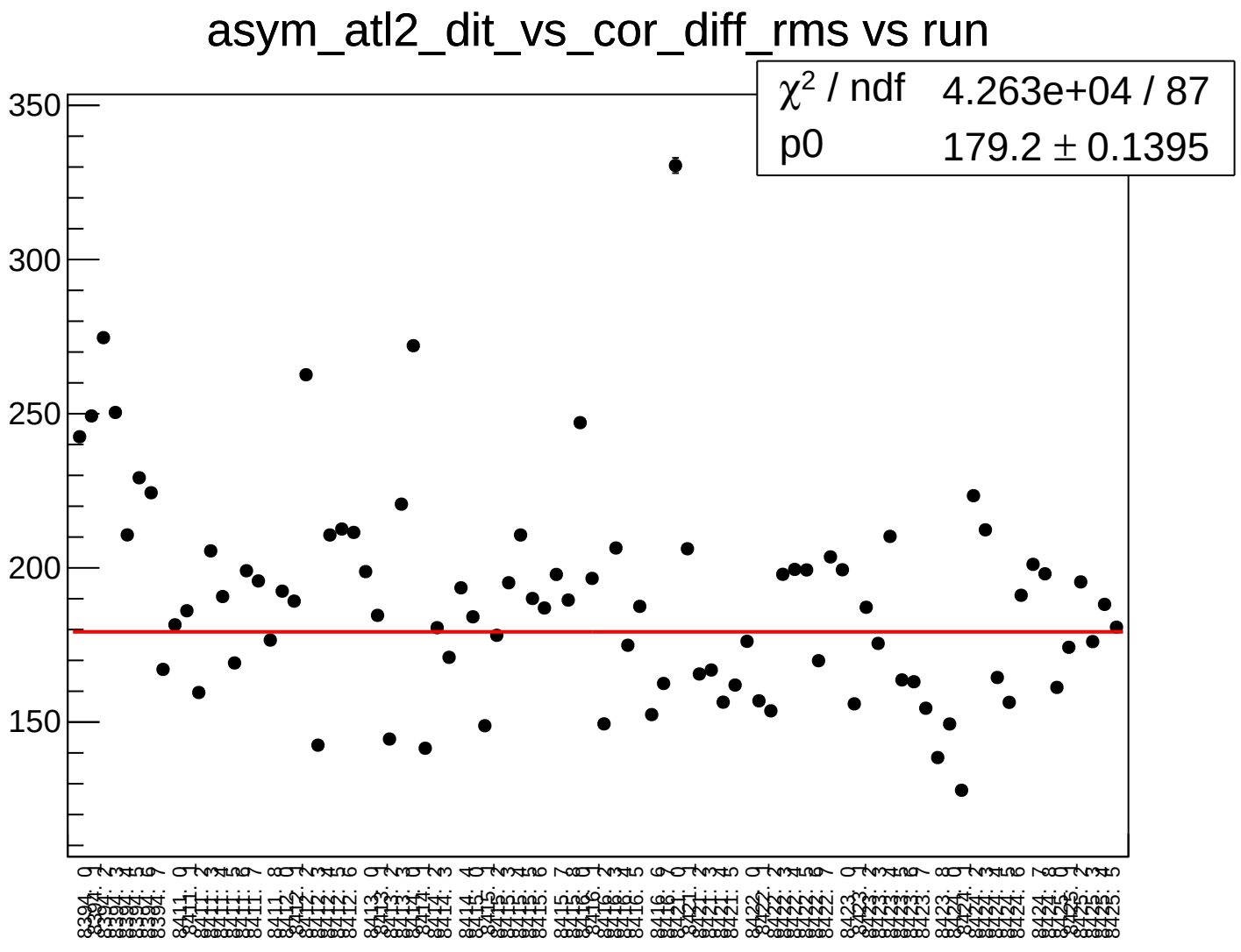

pull1D
Entries 88
Mean 0.02212
Std Dev 0.8203
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

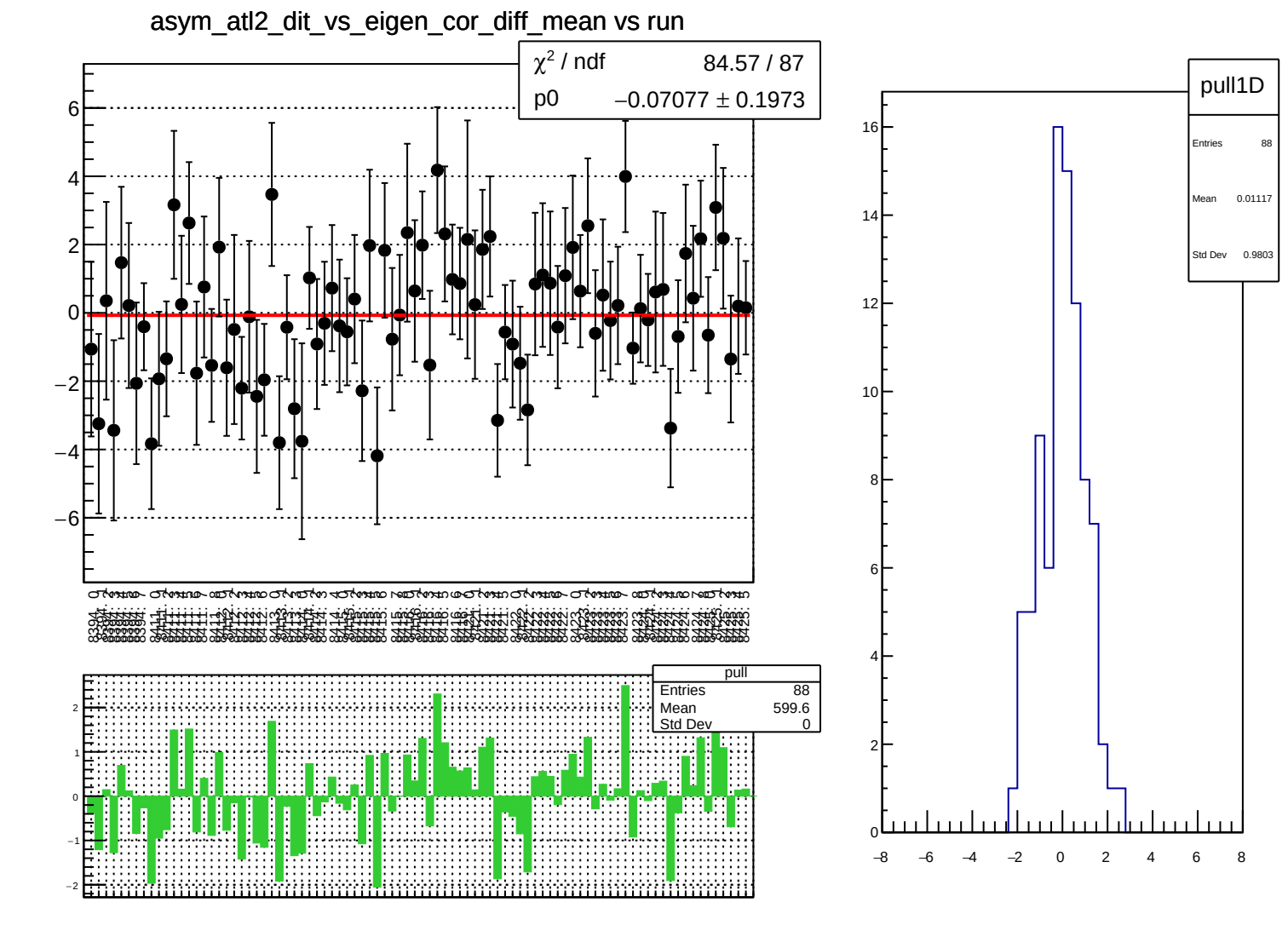

asym_atl2_rms vs run
χ² / ndf 1.77e+04 / 87
p0 1.021e+04 ± 7.885
12000
11000
10000
9000
8000

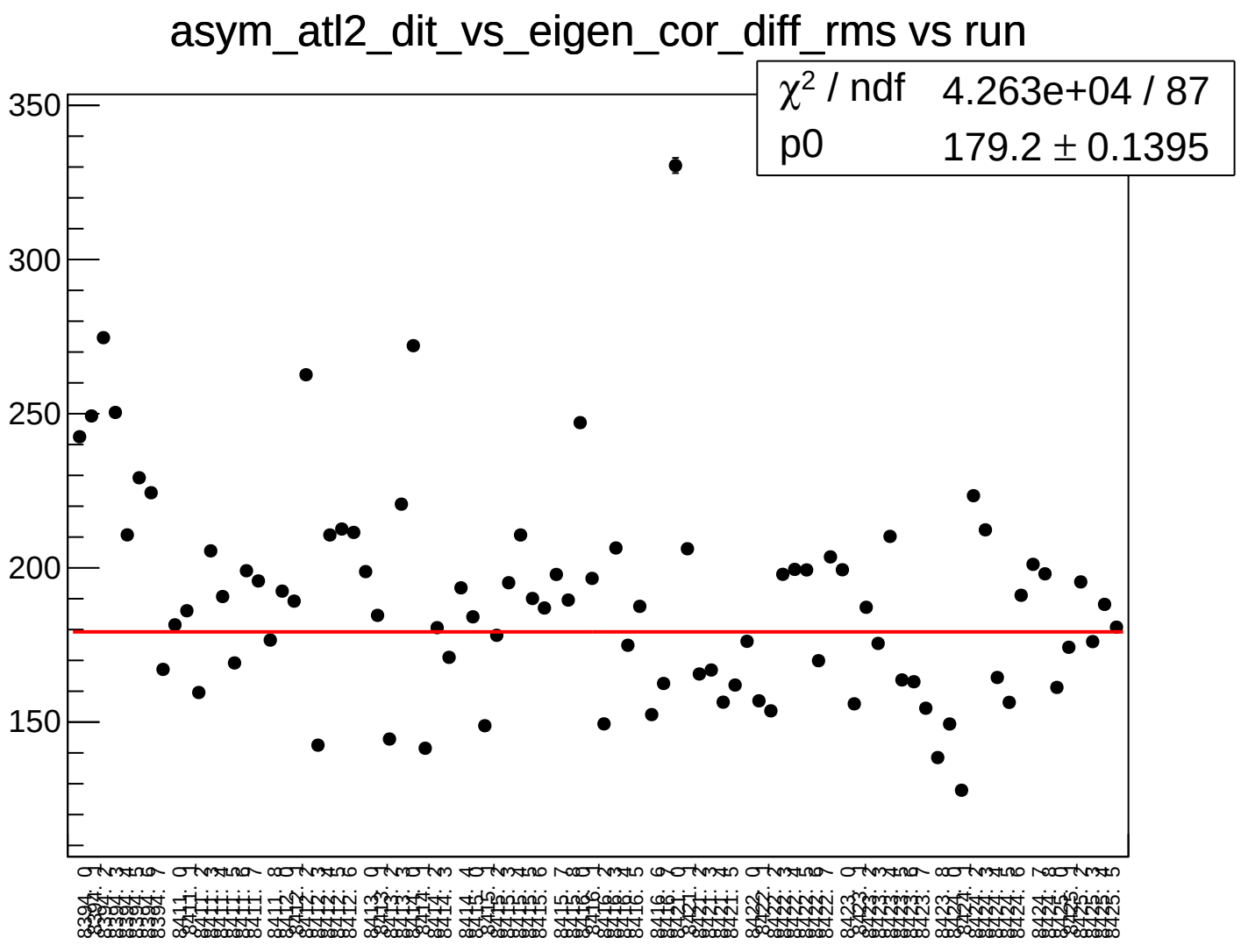

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 86.6 / 87
p0 7.797e−13 ± 1.091e−12
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 88
Mean 18.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.1433
Std Dev 0.9816
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

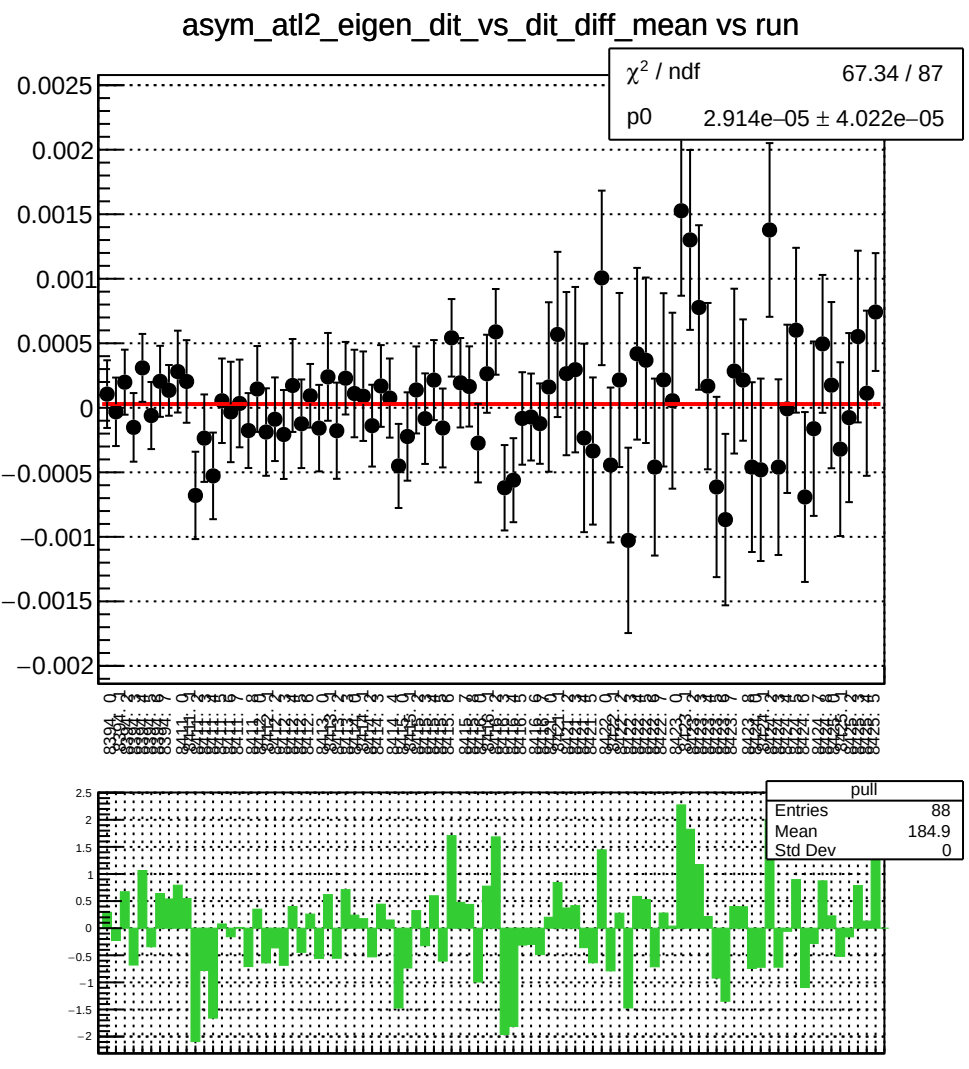

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.265e+06 / 87
p0 5.042e−10 ± 7.712e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

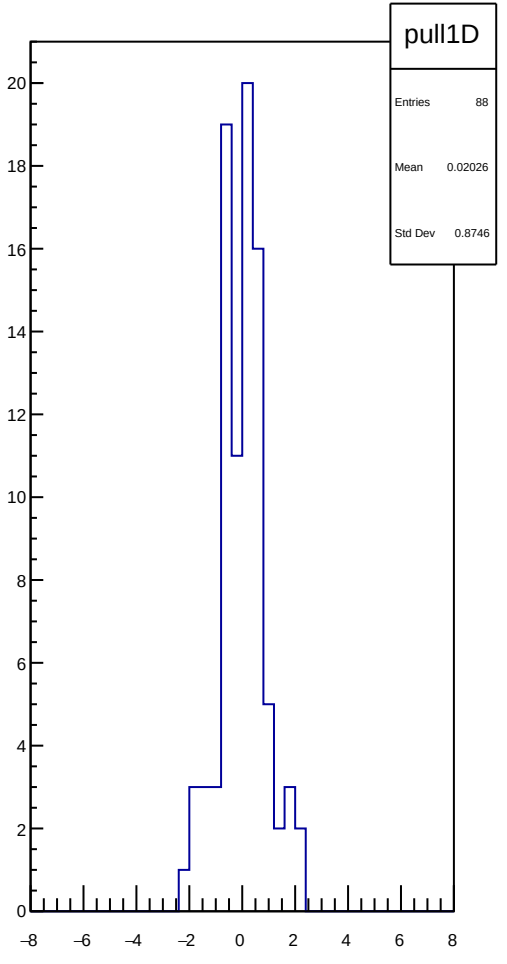

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 84.57 / 87
p0 −0.07077 ± 0.1973
pull
Entries 88
Mean 599.6
Std Dev 0
pull1D
Entries 88
Mean 0.01117
Std Dev 0.9803

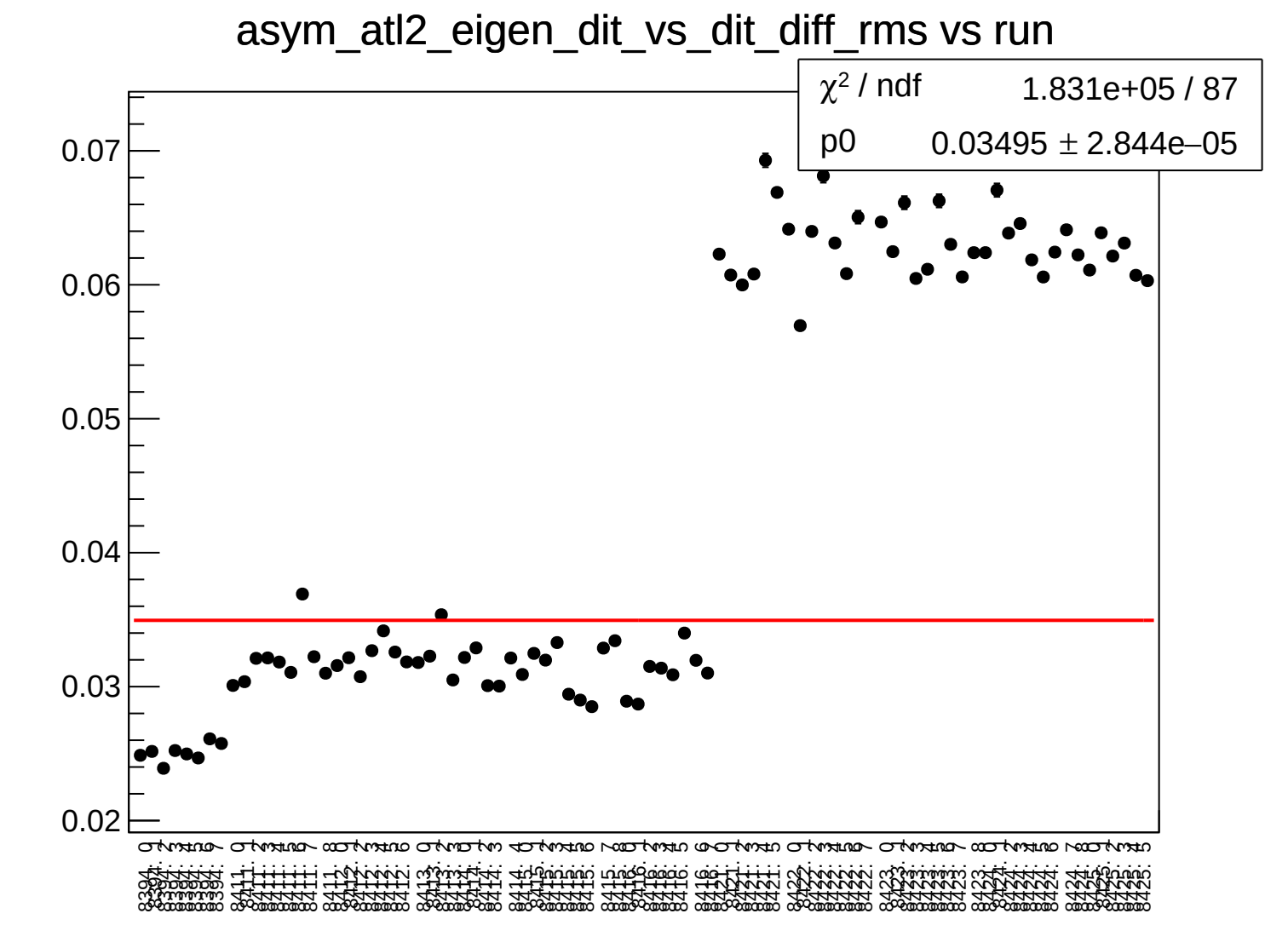

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 4.263e+04 / 87
p0 179.2 ± 0.1395
350
300
250
200
150

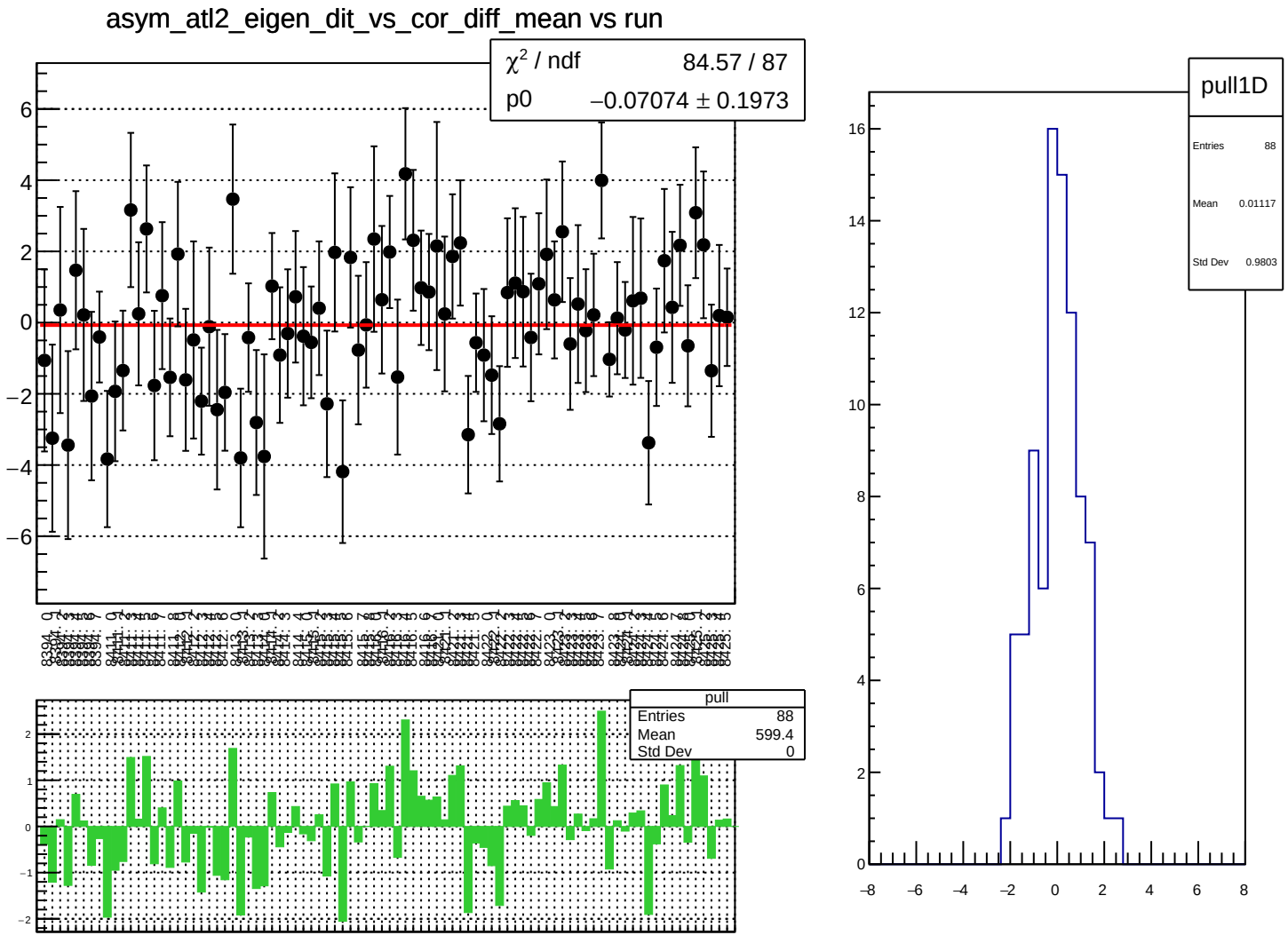

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.57 / 87
p0 −0.07077 ± 0.1973
pull
Entries 88
Mean 599.6
Std Dev 0
pull1D
Entries 88
Mean 0.01117
Std Dev 0.9803

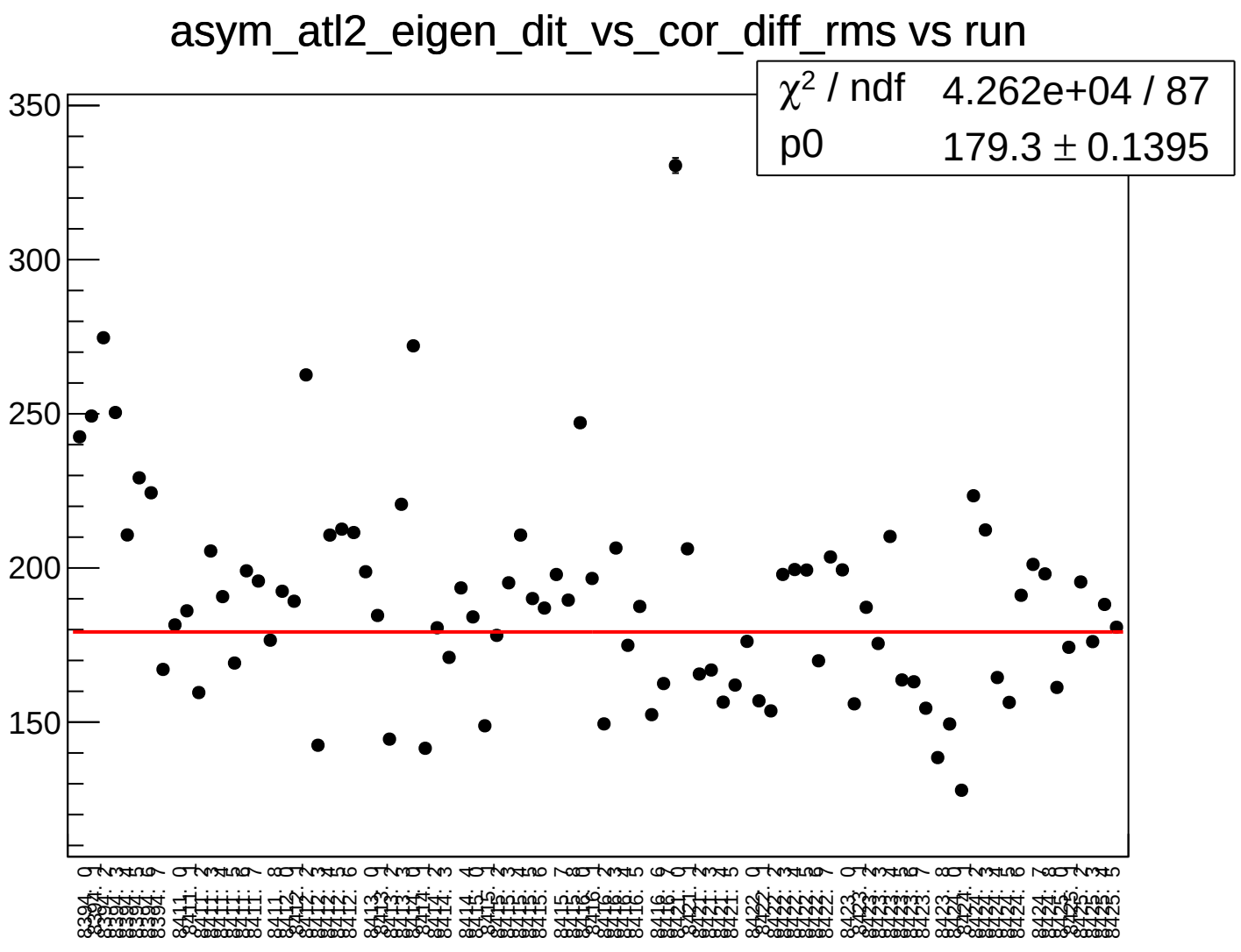

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.263e+04 / 87
p0 179.2 ± 0.1395
350
300
250
200
150

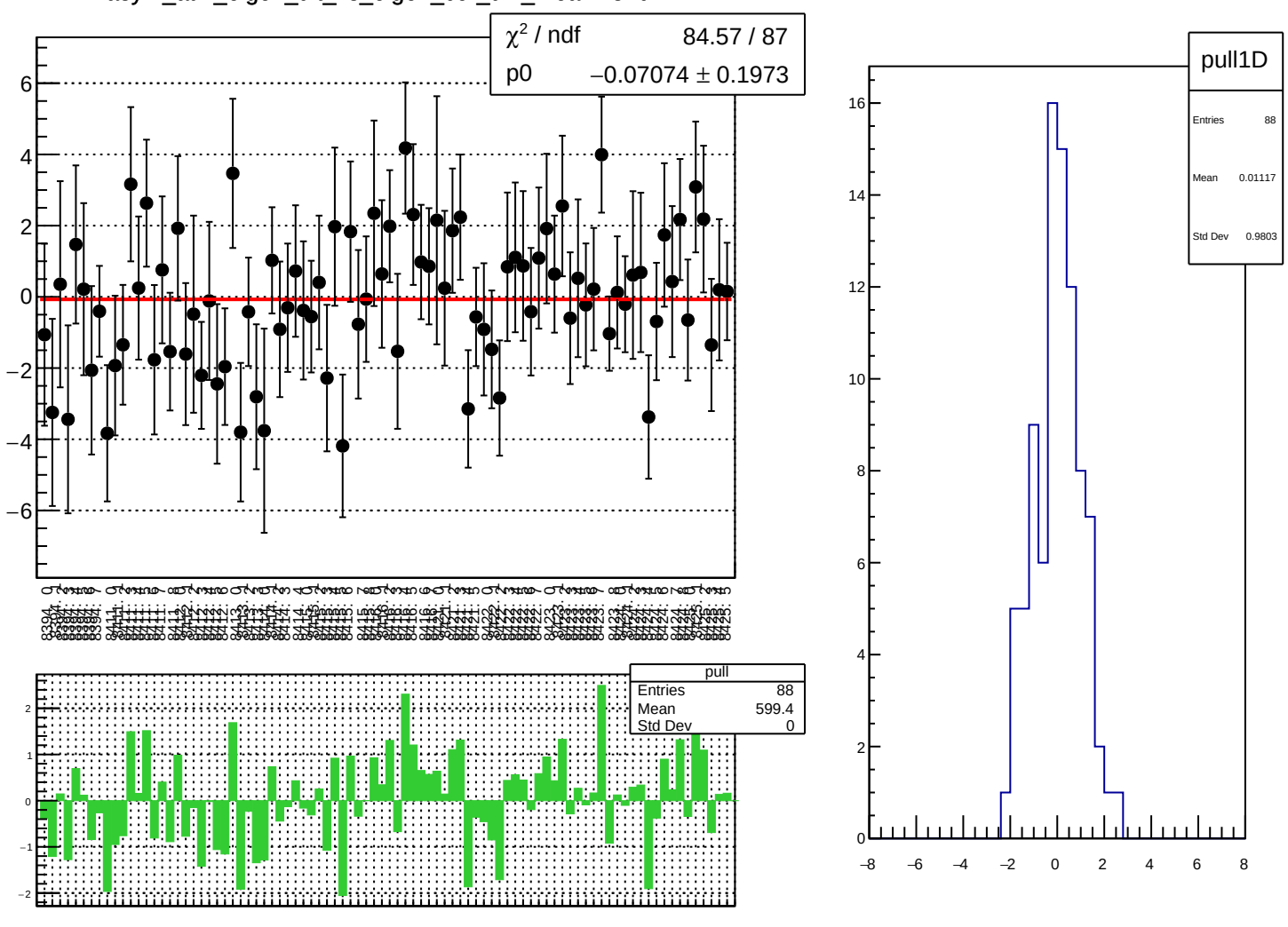

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 67.34 / 87
p0 2.914e−05 ± 4.022e−05
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 88
Mean 184.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

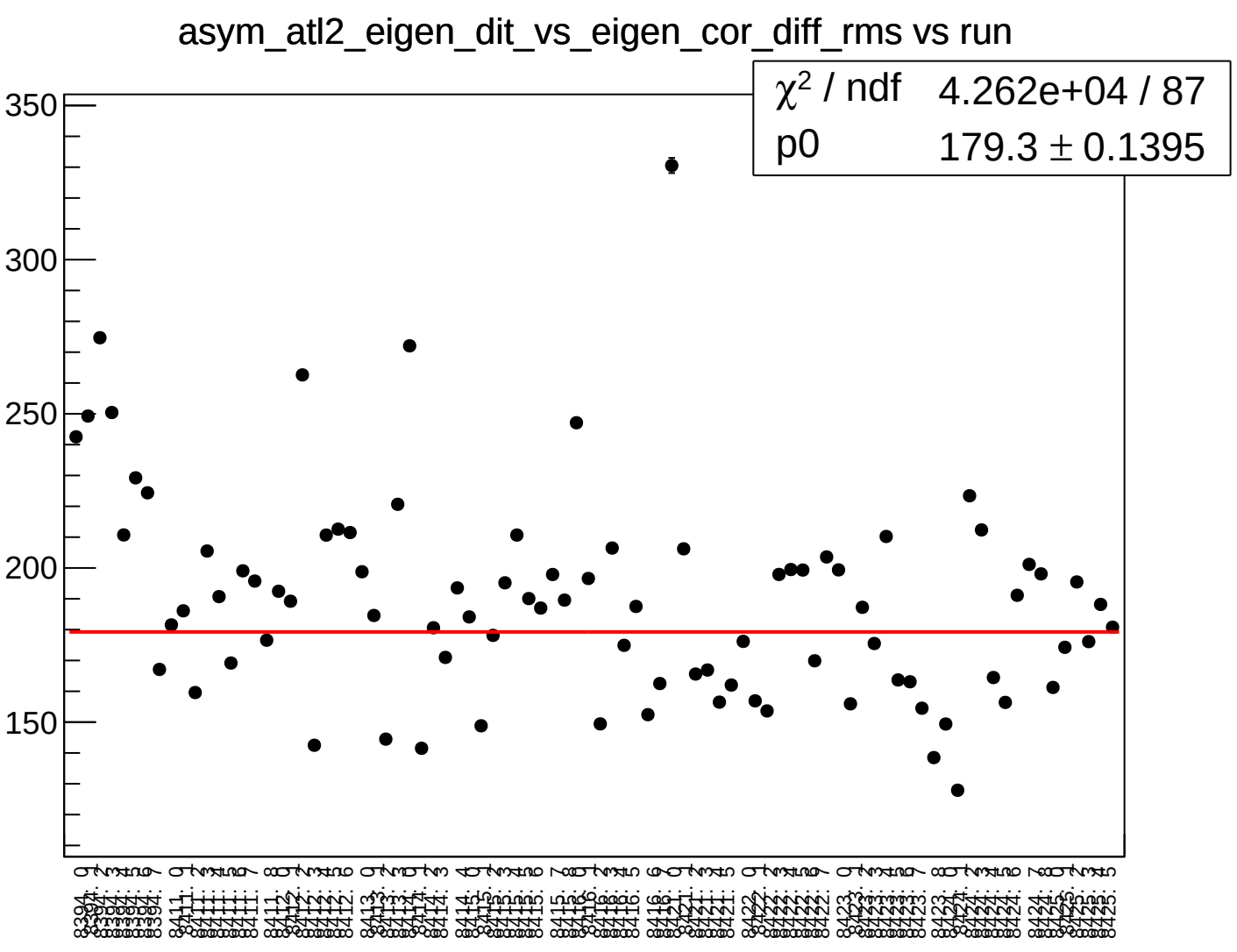

pull1D
Entries 88
Mean 0.02026
Std Dev 0.8746
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

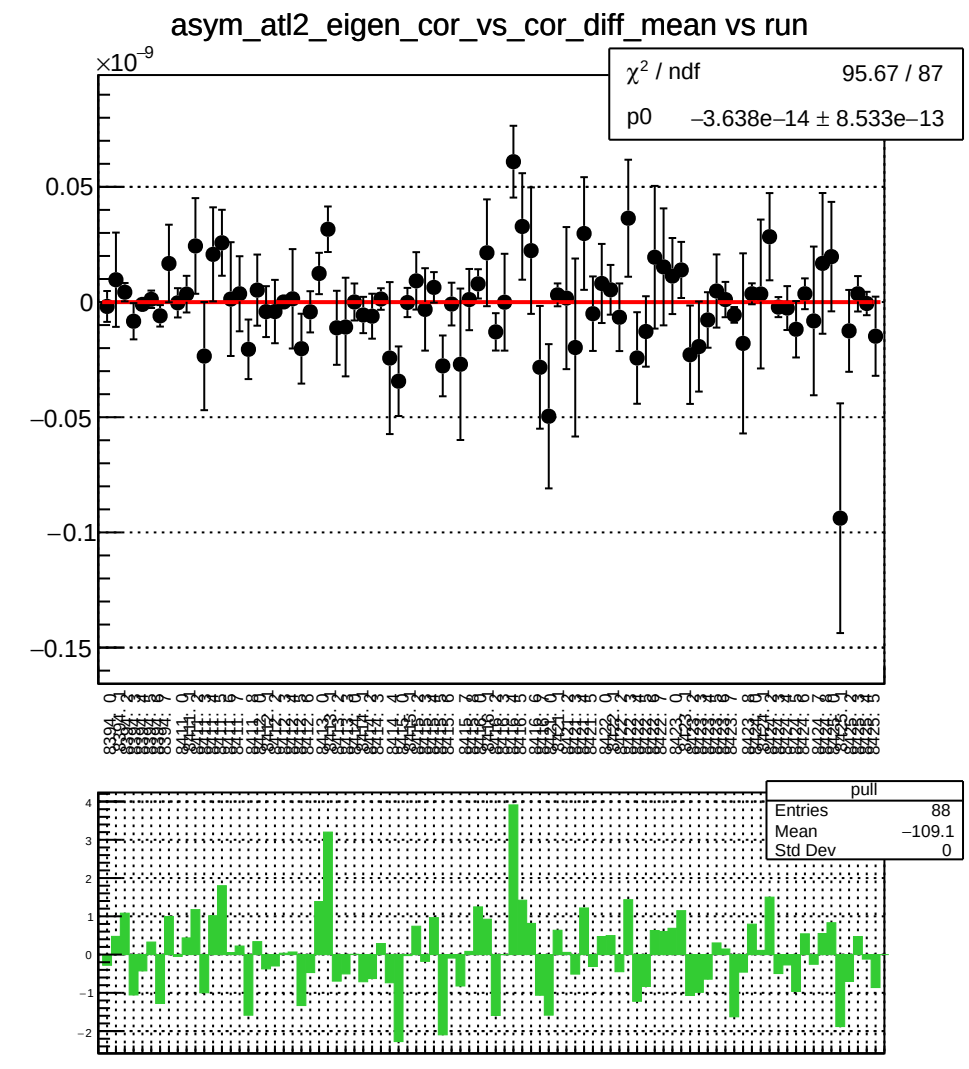

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.831e+05 / 87
p0 0.03495 ± 2.844e−05
0.07
0.06
0.05
0.04
0.03
0.02

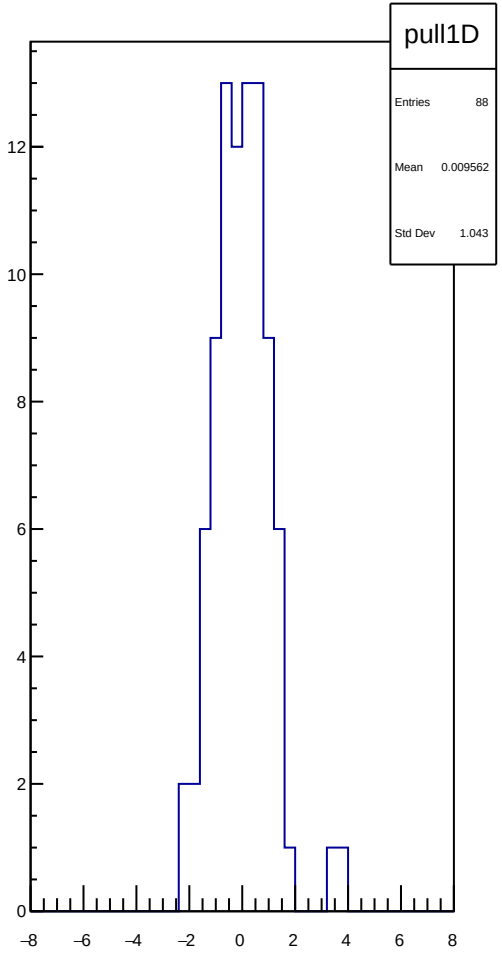

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.57 / 87
p0 −0.07074 ± 0.1973
pull
Entries 88
Mean 599.4
Std Dev 0
pull1D
Entries 88
Mean 0.01117
Std Dev 0.9803

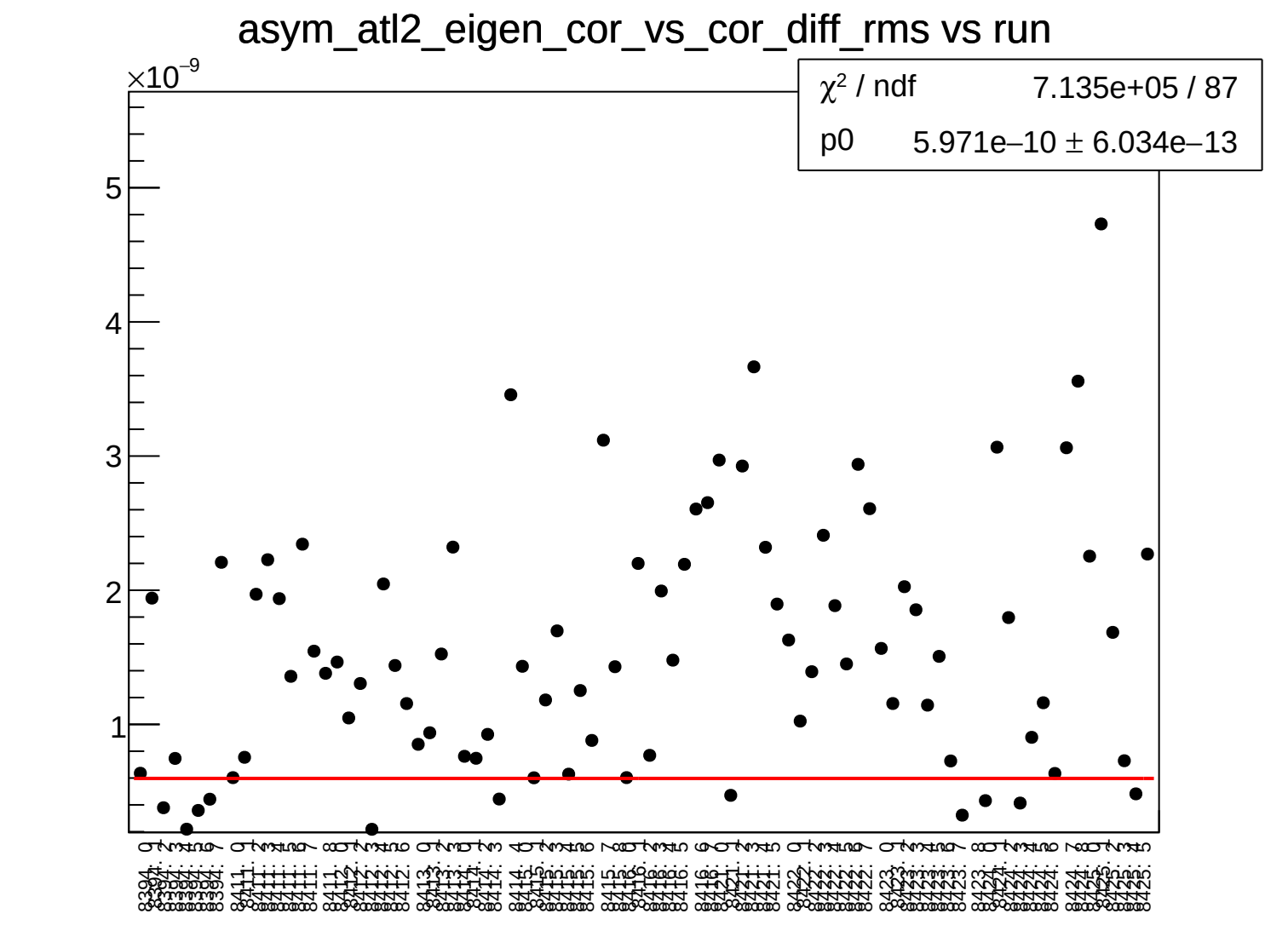

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.262e+04 / 87
p0 179.3 ± 0.1395
350
300
250
200
150

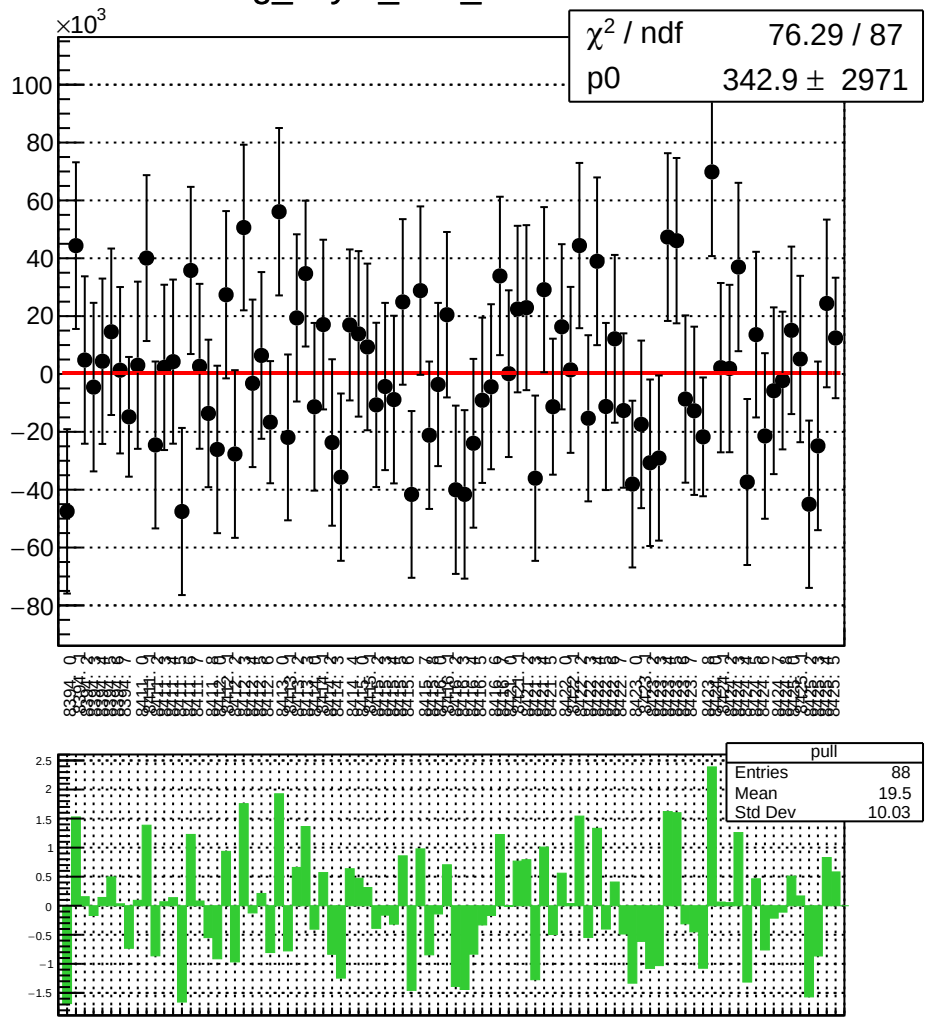

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.57 / 87
p0 −0.07074 ± 0.1973
pull
Entries 88
Mean 599.4
Std Dev 0
pull1D
Entries 88
Mean 0.01117
Std Dev 0.9803

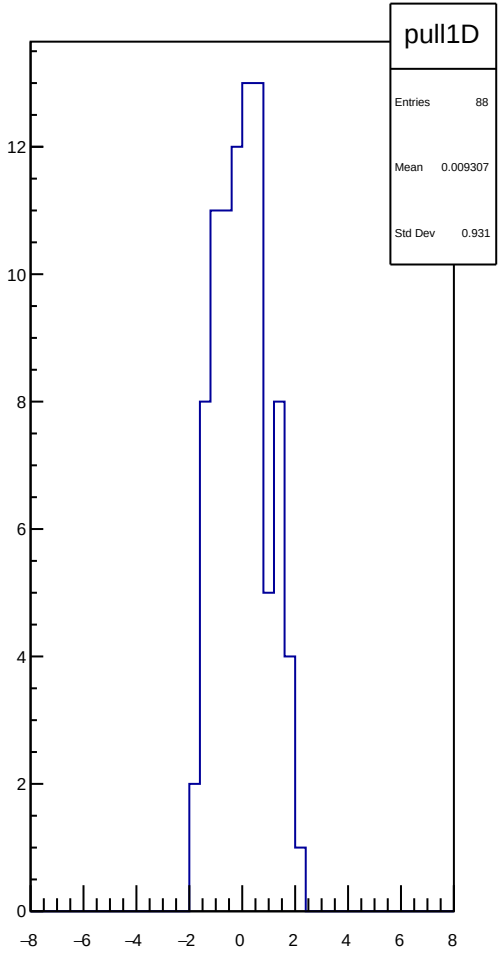

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.262e+04 / 87
p0 179.3 ± 0.1395
350
300
250
200
150

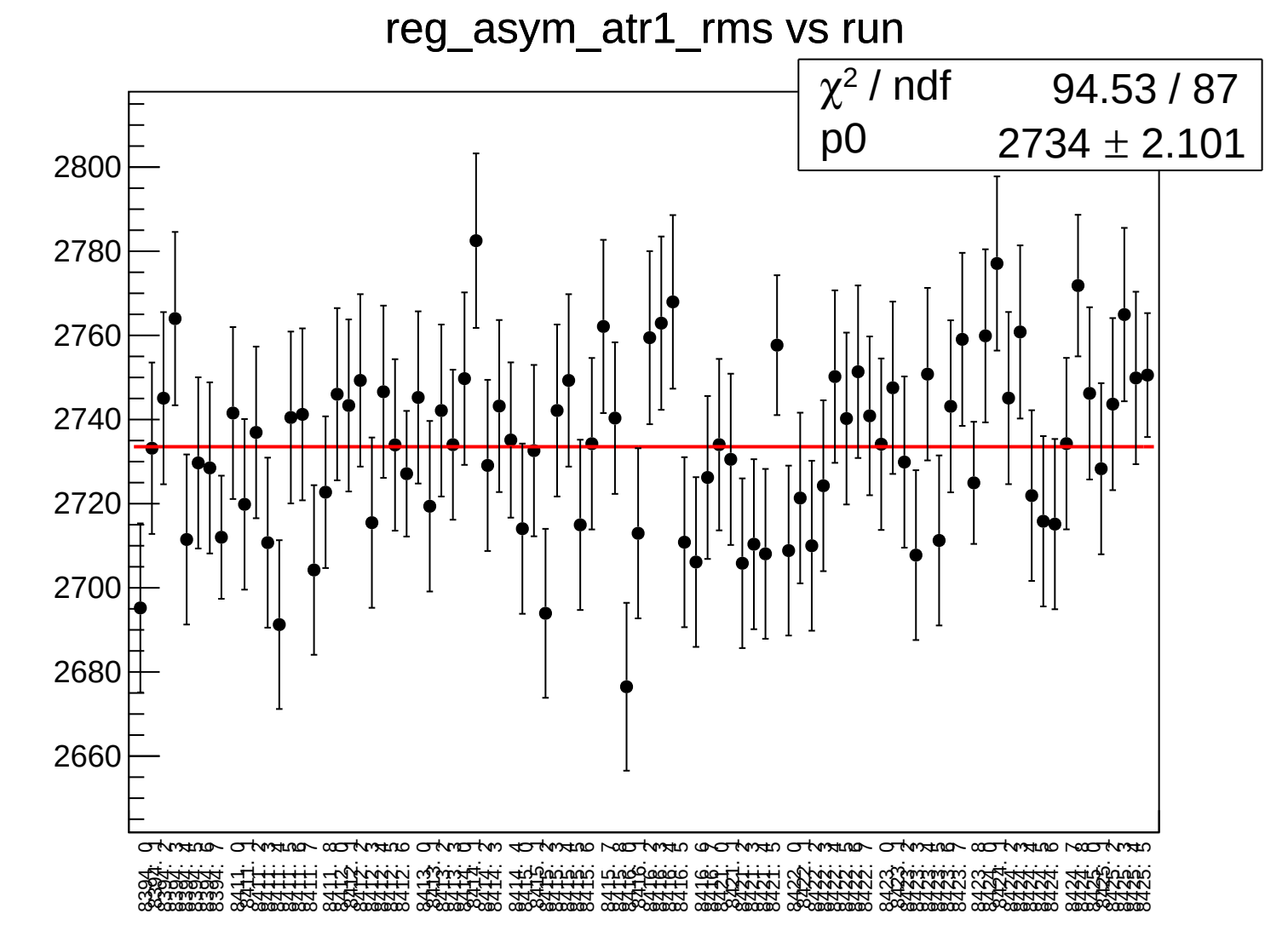

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 95.67 / 87
p0 −3.638e−14 ± 8.533e−13
0.05
0
−0.05
−0.1
−0.15
pull
Entries 88
Mean −109.1
Std Dev 0
4
3
2
1
0
−1
−2

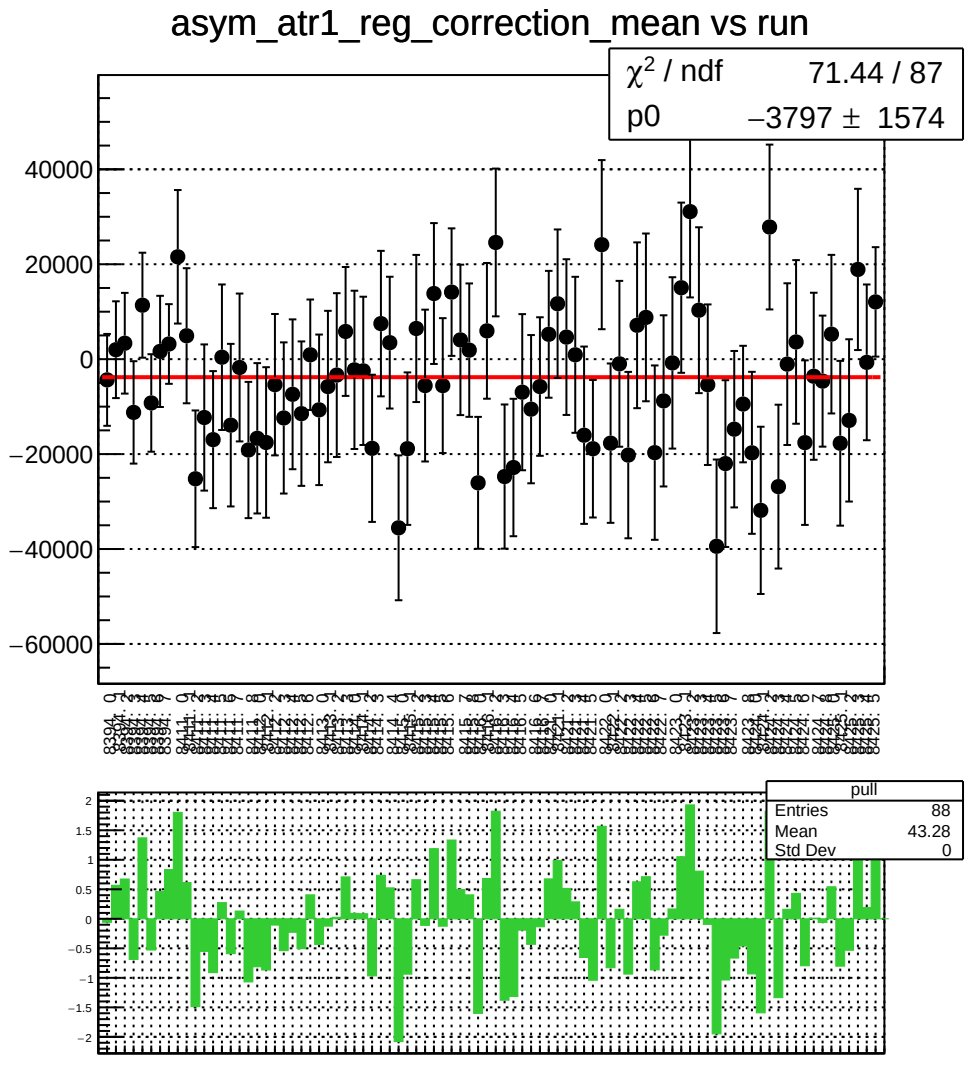

pull1D
Entries 88
Mean 0.009562
Std Dev 1.043
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

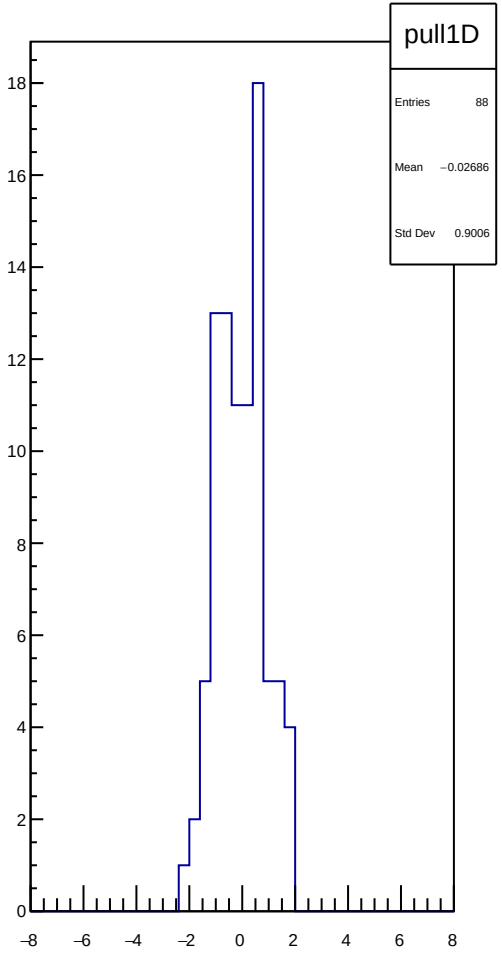

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.135e+05 / 87
p0 5.971e−10 ± 6.034e−13
5
4
3
2
1

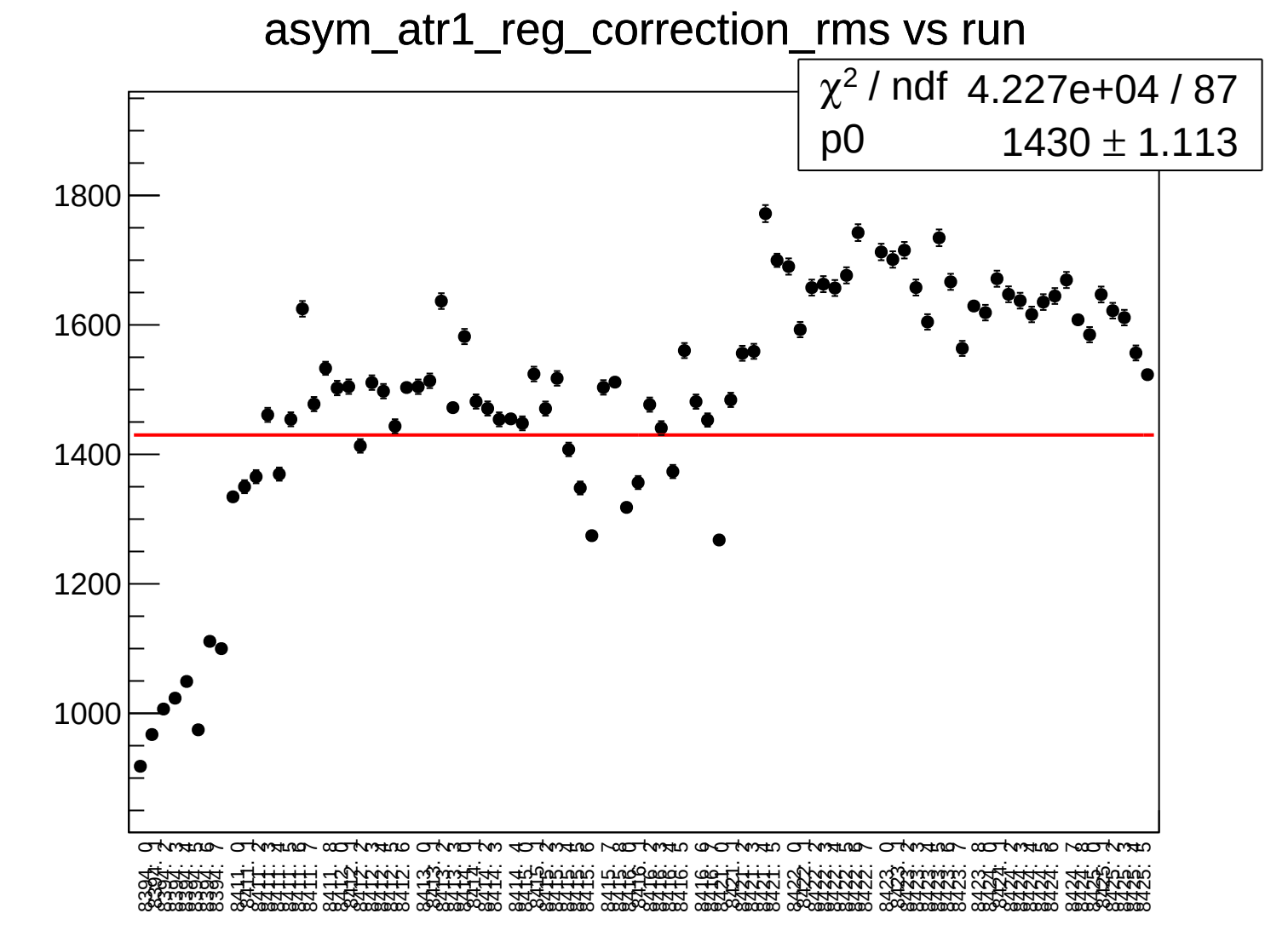

reg_asym_atr1_mean vs run
χ^2 / ndf 76.29 / 87
p0 342.9 ± 2971
×10^3
pull
Entries 88
Mean 19.5
Std Dev 10.03

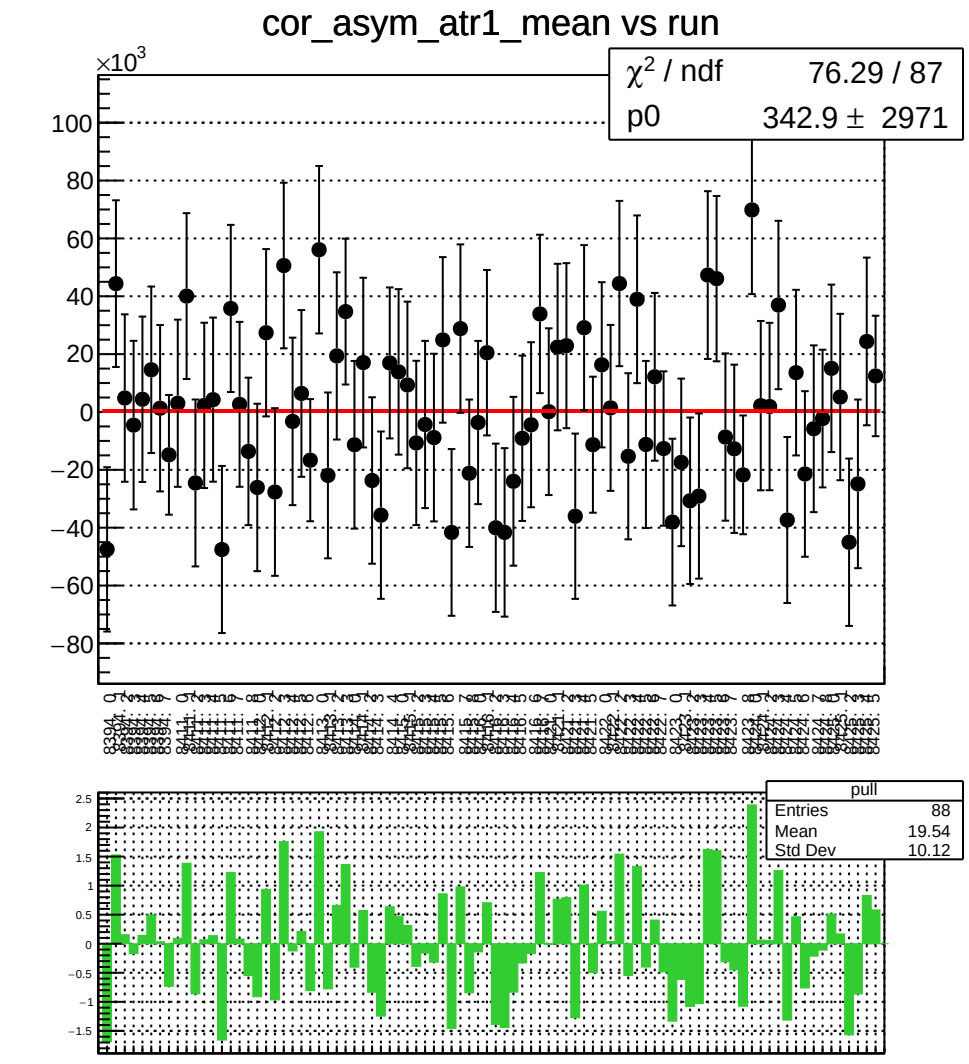

pull1D
Entries 88
Mean 0.009307
Std Dev 0.931

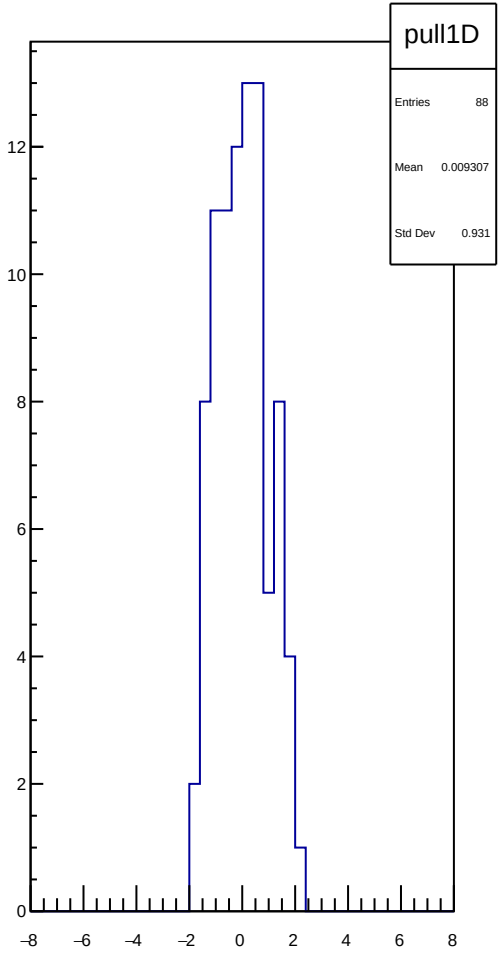

reg_asym_atr1_rms vs run
χ^2 / ndf 94.53 / 87
p0 2734 ± 2.101
2800
2780
2760
2740
2720
2700
2680
2660

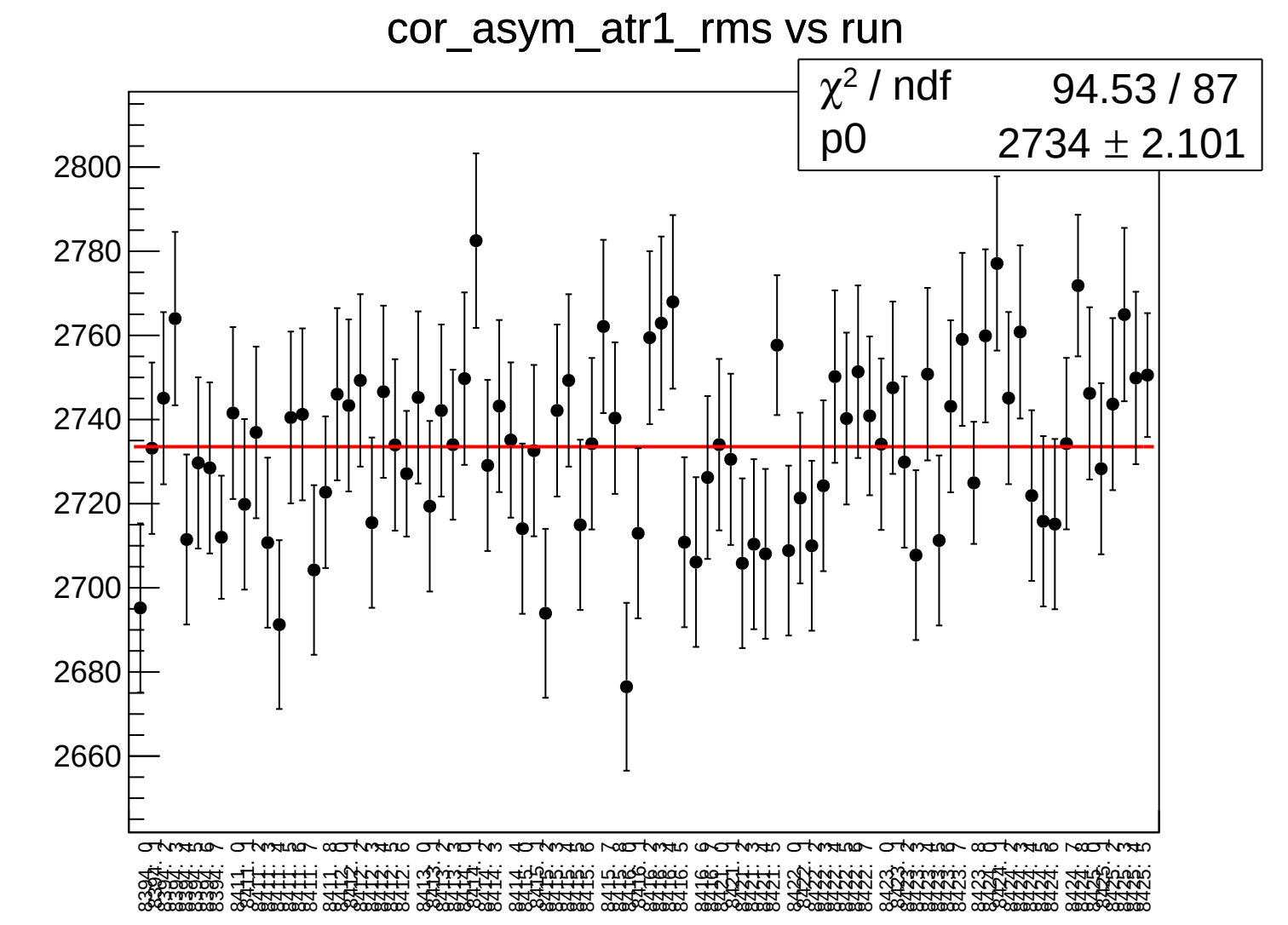

asym_atr1_reg_correction_mean vs run
χ² / ndf 71.44 / 87
p0 −3797 ± 1574
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 43.28
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

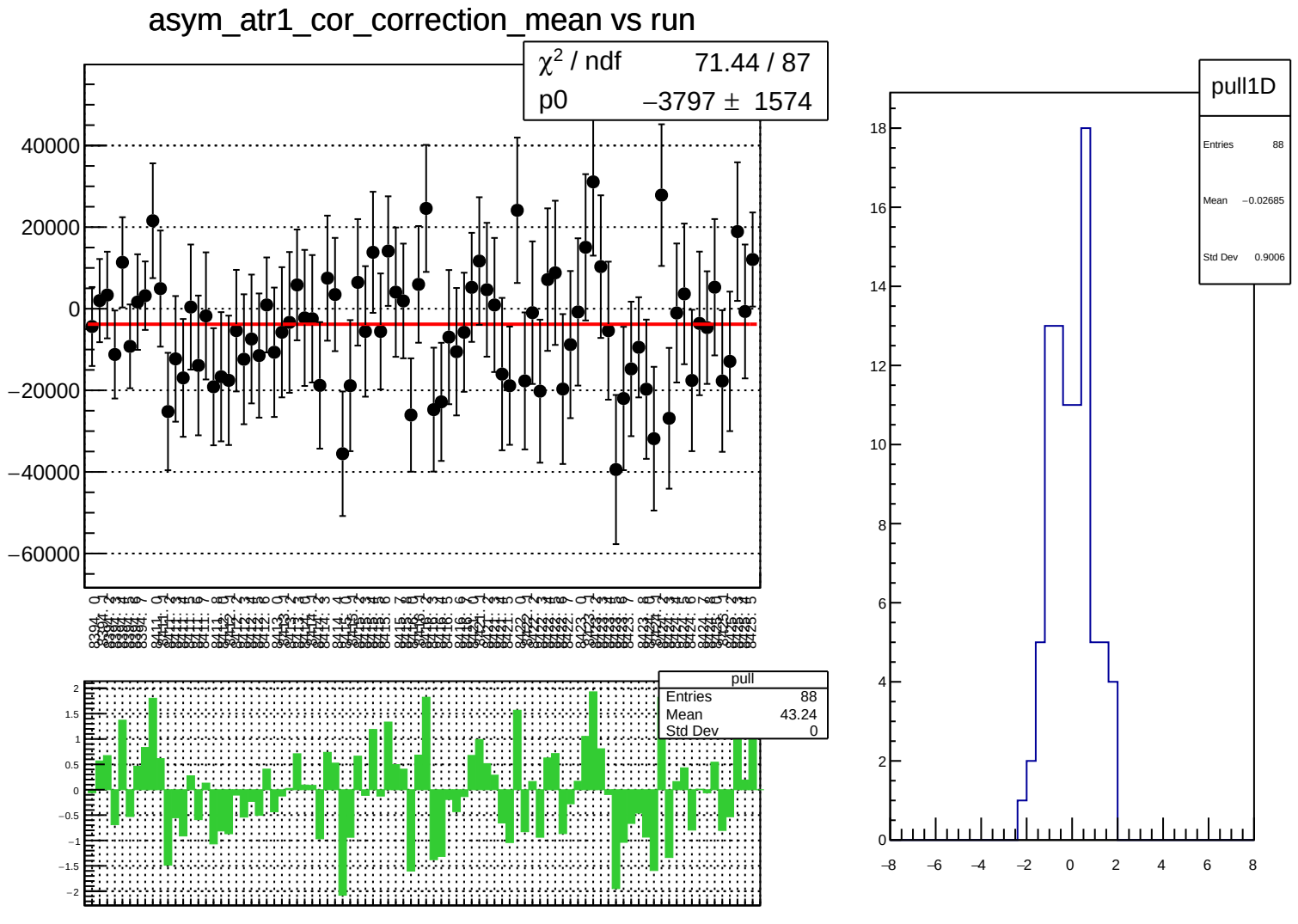

pull1D
Entries 88
Mean −0.02686
Std Dev 0.9006
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

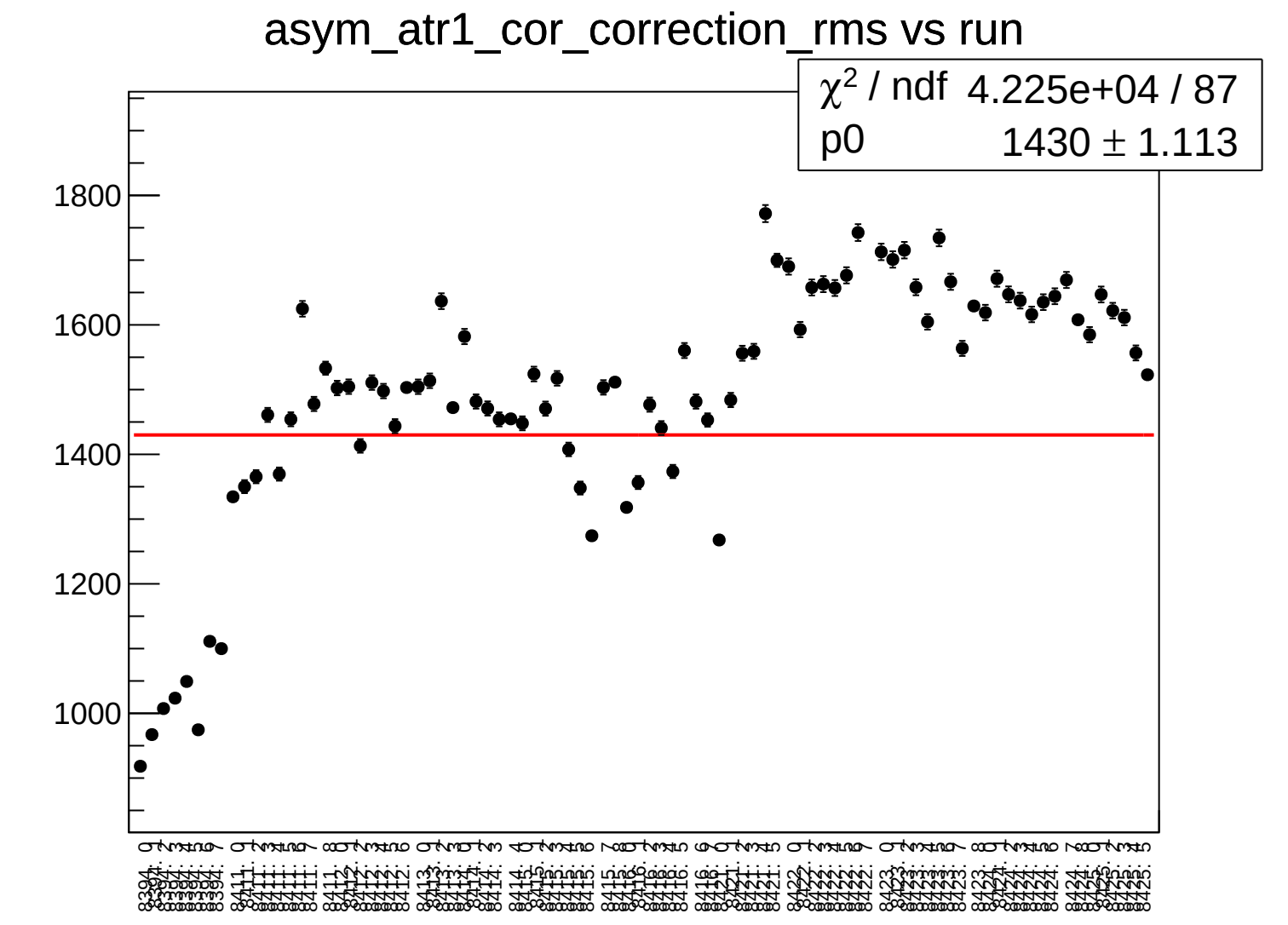

asym_atr1_reg_correction_rms vs run
χ² / ndf 4.227e+04 / 87
p0 1430 ± 1.113
1800
1600
1400
1200
1000

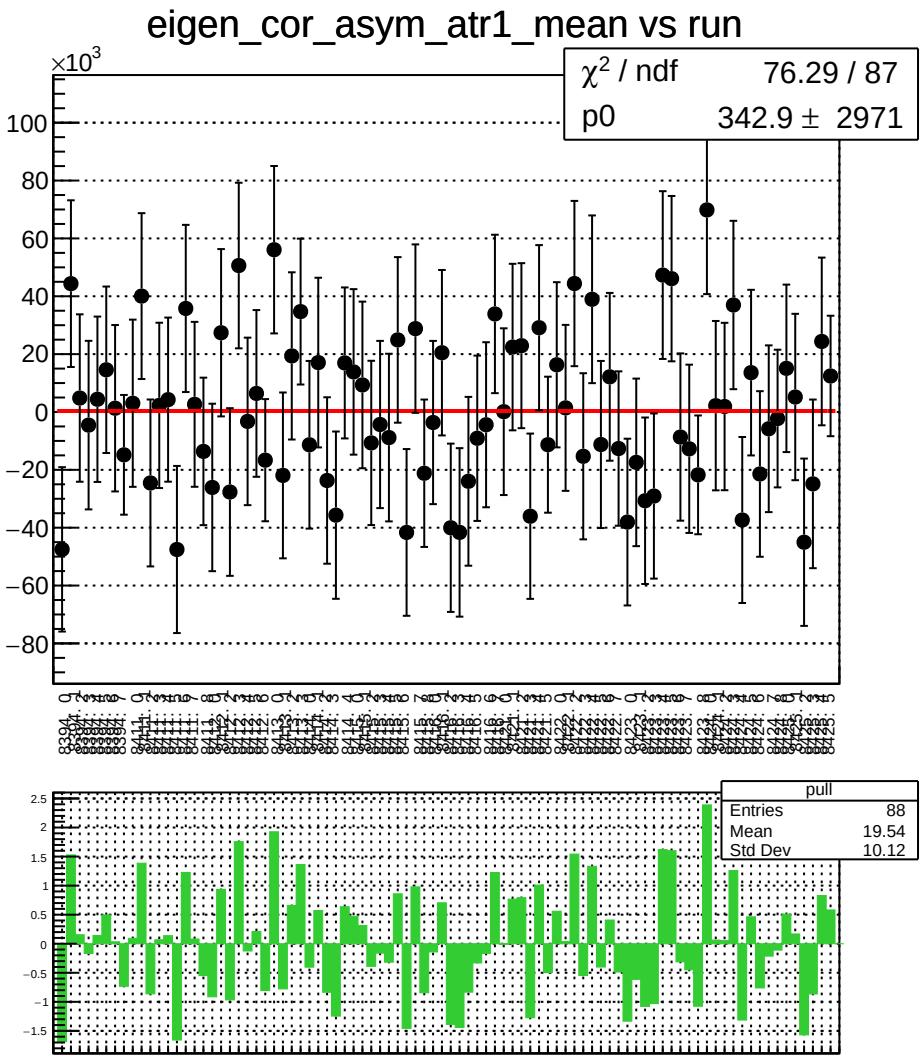

cor_asym_atr1_mean vs run
χ^2 / ndf 76.29 / 87
p0 342.9 ± 2971
×10^3
pull
Entries 88
Mean 19.54
Std Dev 10.12

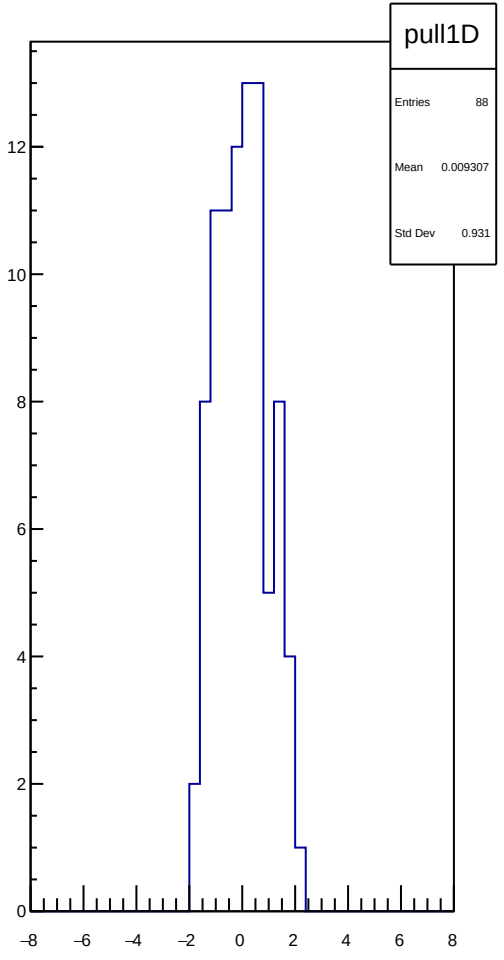

pull1D
Entries 88
Mean 0.009307
Std Dev 0.931

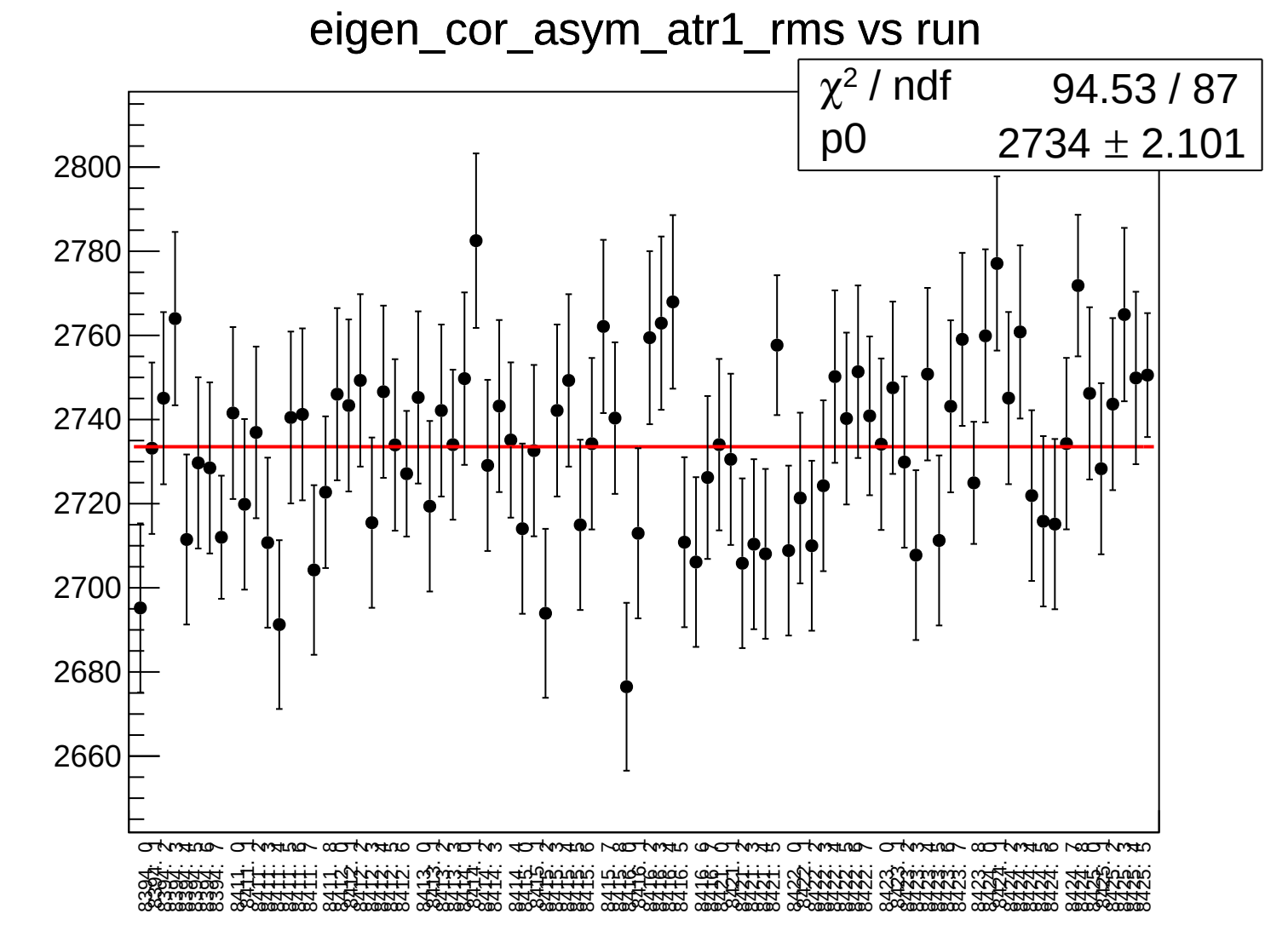

cor_asym_atr1_rms vs run
χ² / ndf 94.53 / 87
p0 2734 ± 2.101
2800
2780
2760
2740
2720
2700
2680
2660

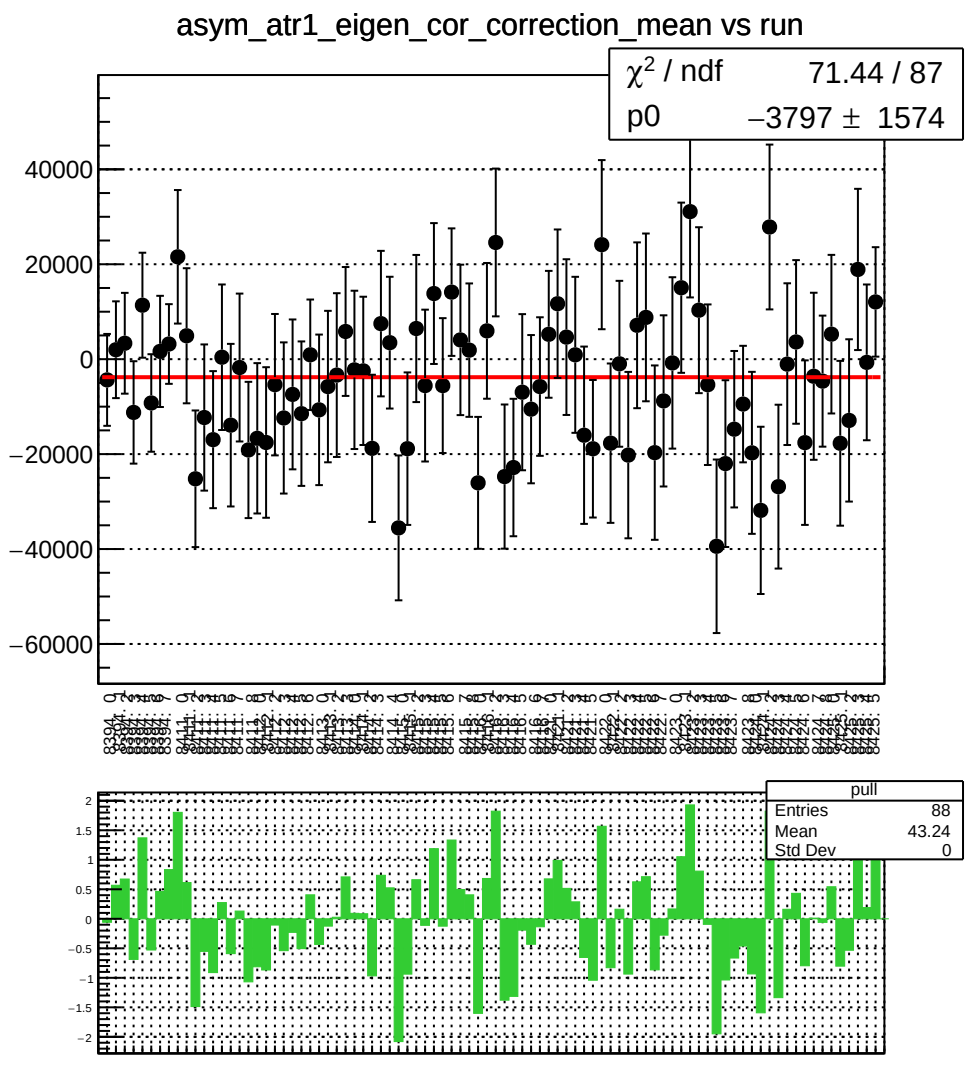

asym_atr1_cor_correction_mean vs run
χ² / ndf 71.44 / 87
p0 −3797 ± 1574
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 43.24
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.02685
Std Dev 0.9006
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

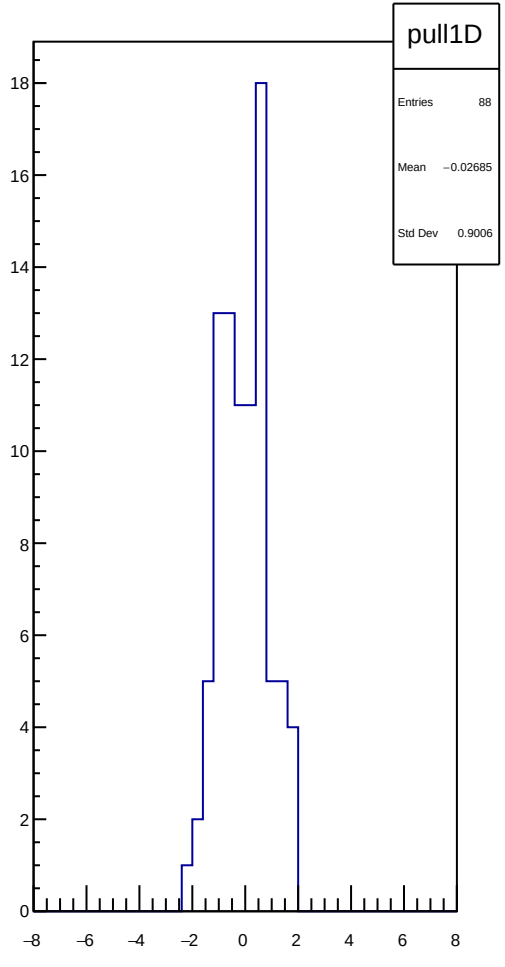

asym_atr1_cor_correction_rms vs run
χ² / ndf 4.225e+04 / 87
p0 1430 ± 1.113
1800
1600
1400
1200
1000

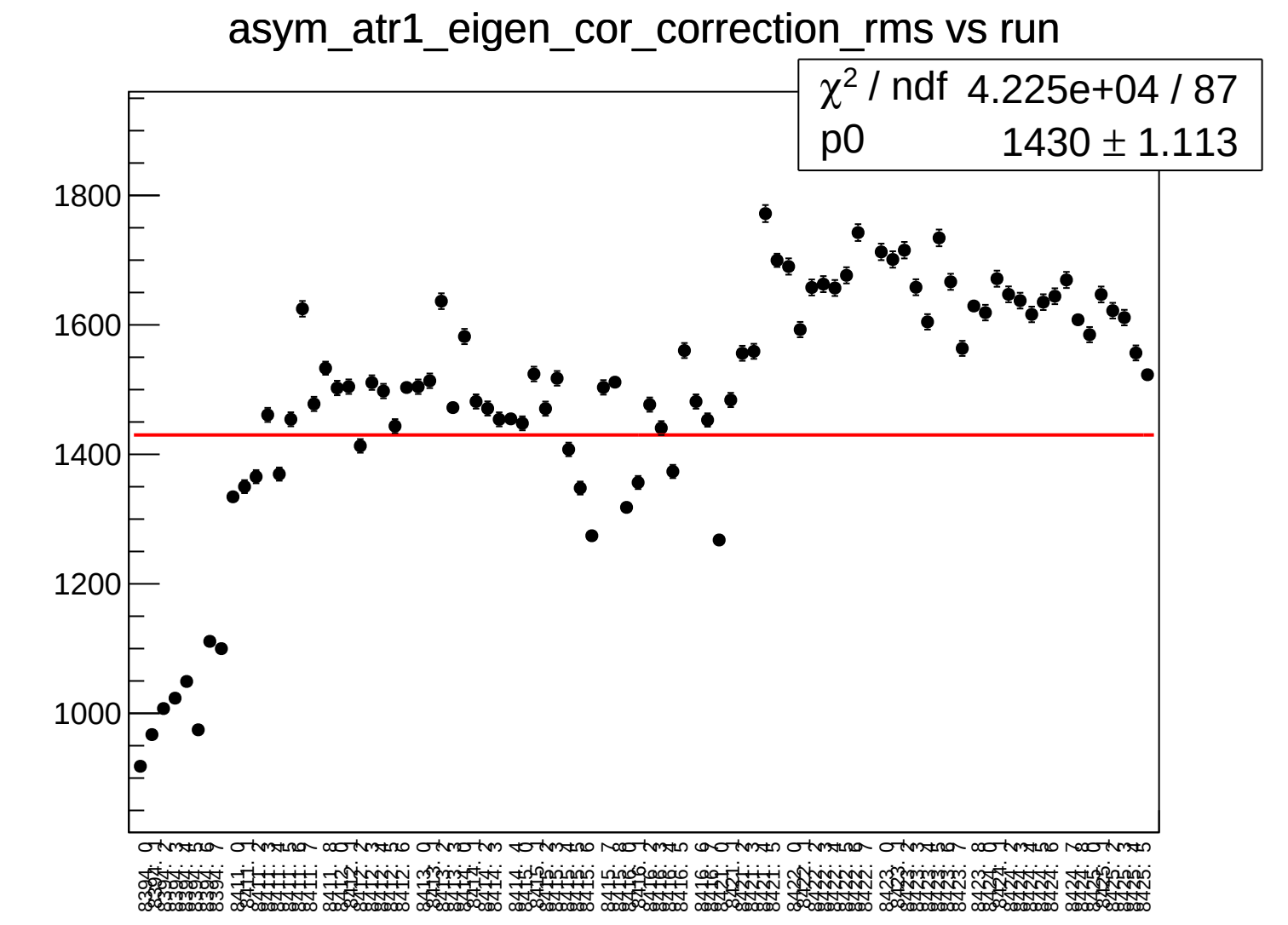

eigen_cor_asym_atr1_mean vs run
×10^3
χ² / ndf 76.29 / 87
p0 342.9 ± 2971
pull
Entries 88
Mean 19.54
Std Dev 10.12

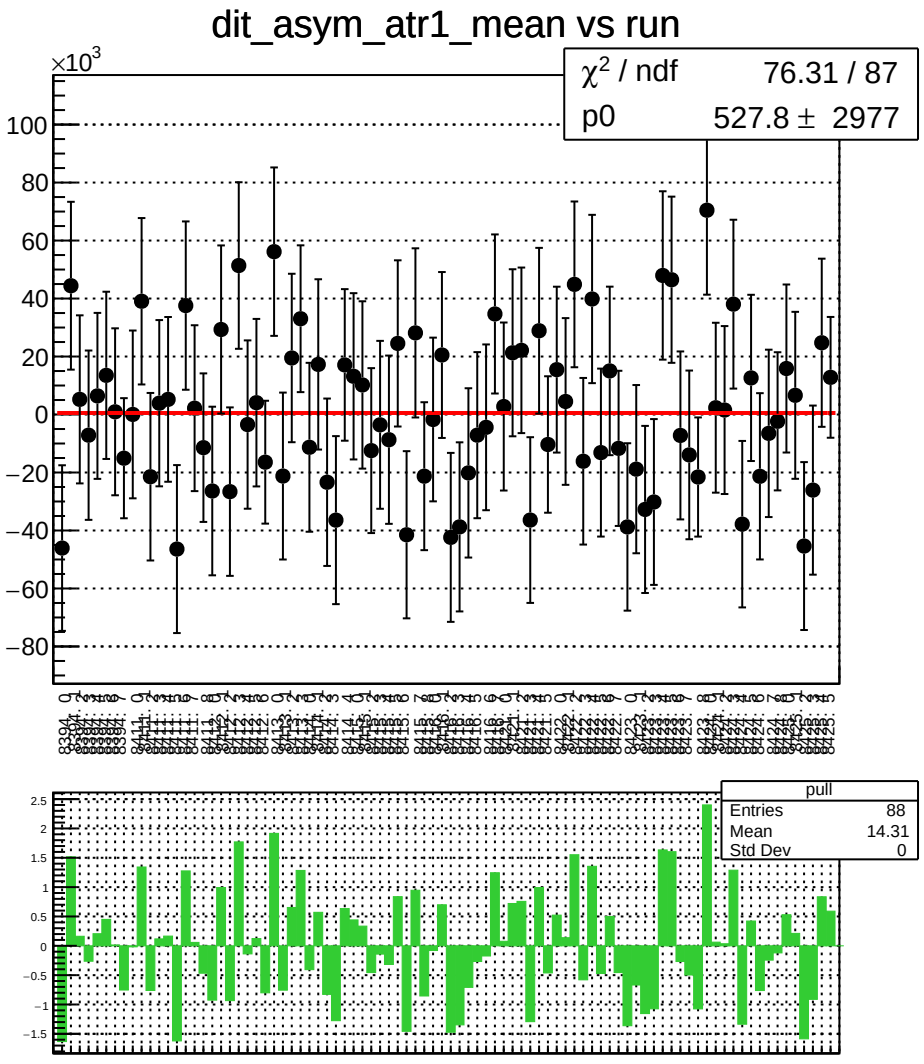

pull1D
Entries 88
Mean 0.009307
Std Dev 0.931

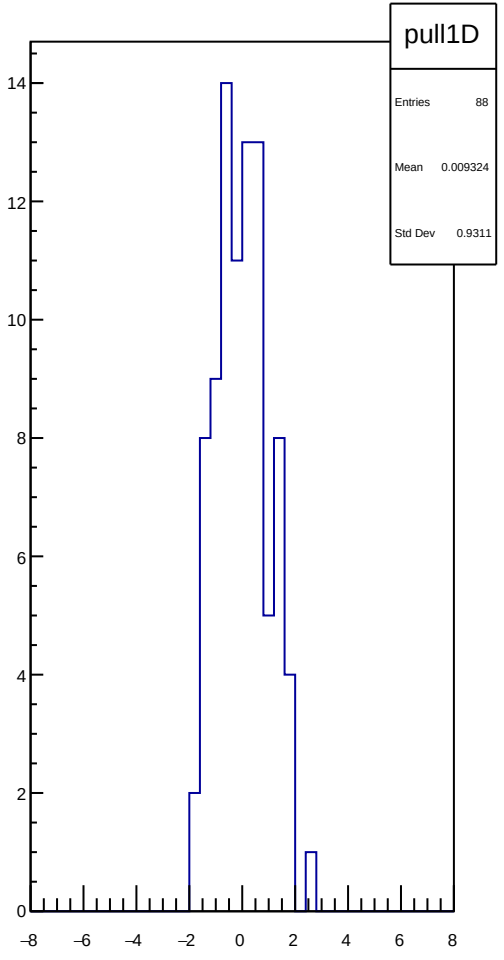

eigen_cor_asym_atr1_rms vs run
χ² / ndf 94.53 / 87
p0 2734 ± 2.101
2800
2780
2760
2740
2720
2700
2680
2660

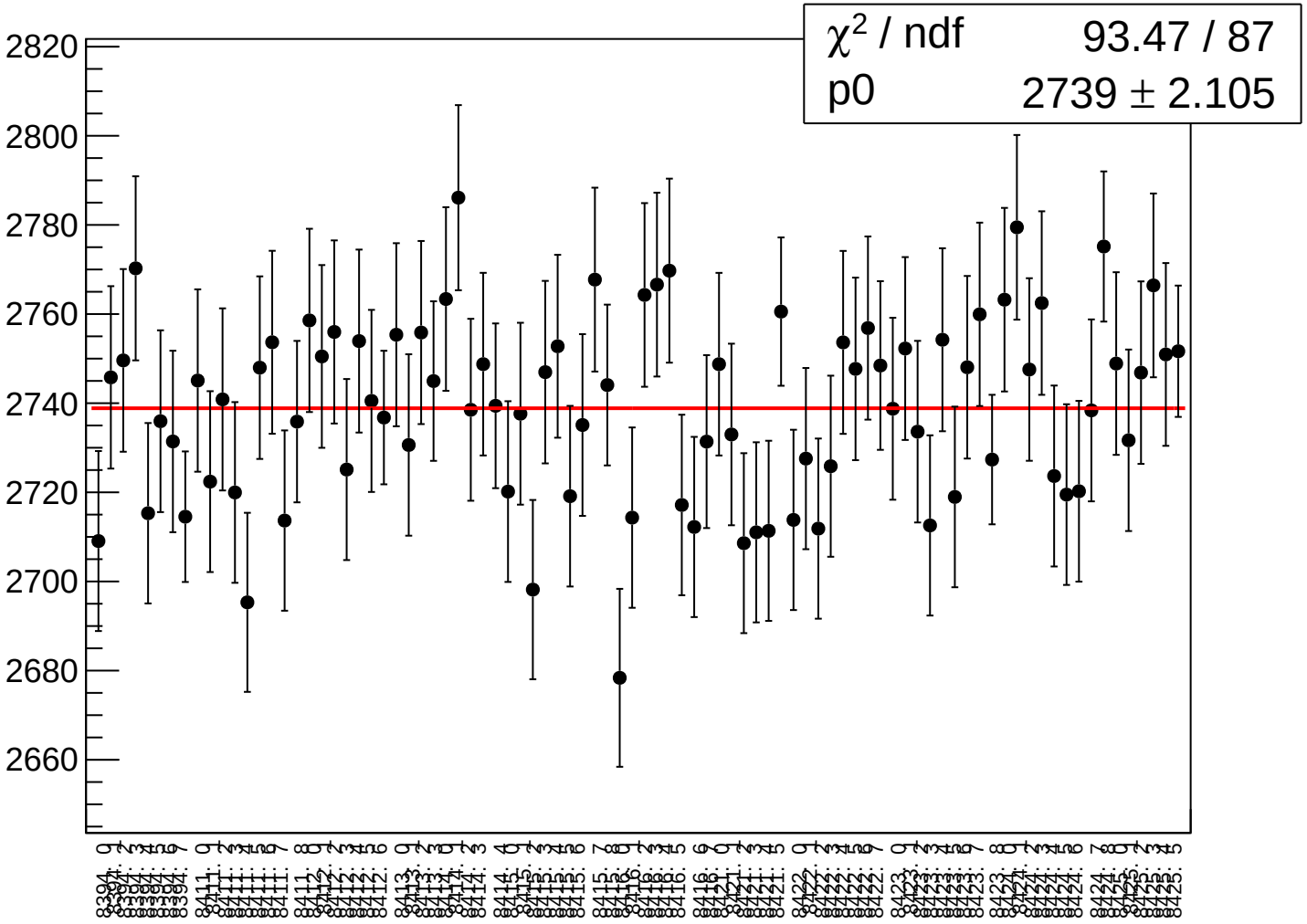

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 71.44 / 87
p0 −3797 ± 1574
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 43.24
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

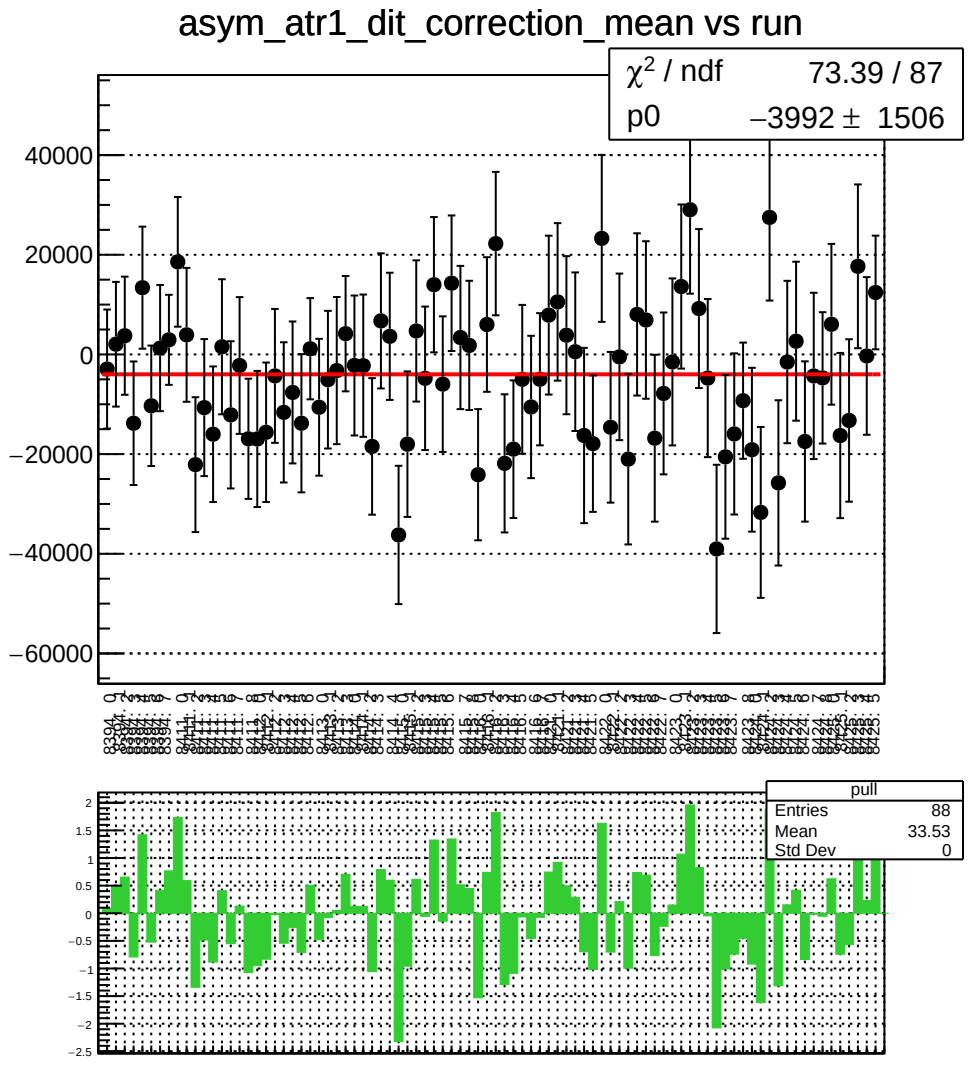

pull1D
Entries 88
Mean −0.02685
Std Dev 0.9006
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

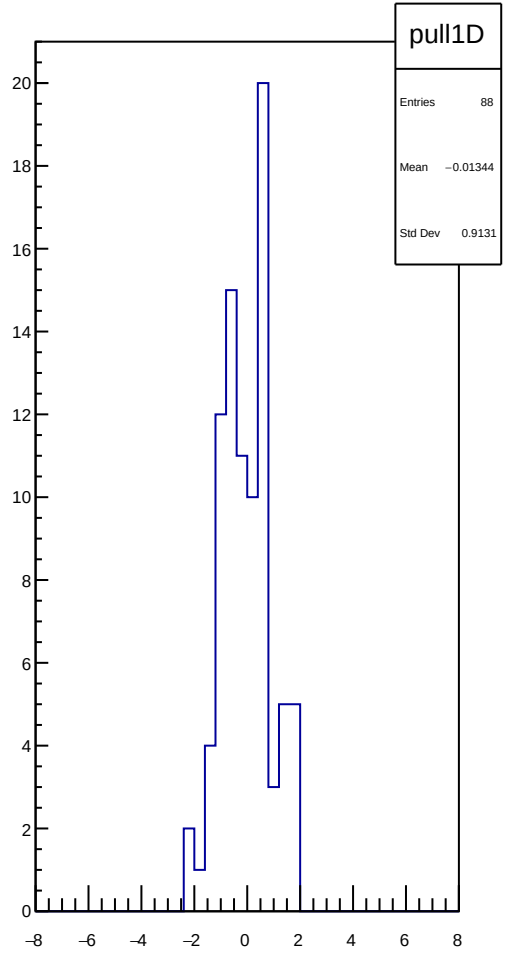

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 4.225e+04 / 87
p0 1430 ± 1.113
1800
1600
1400
1200
1000

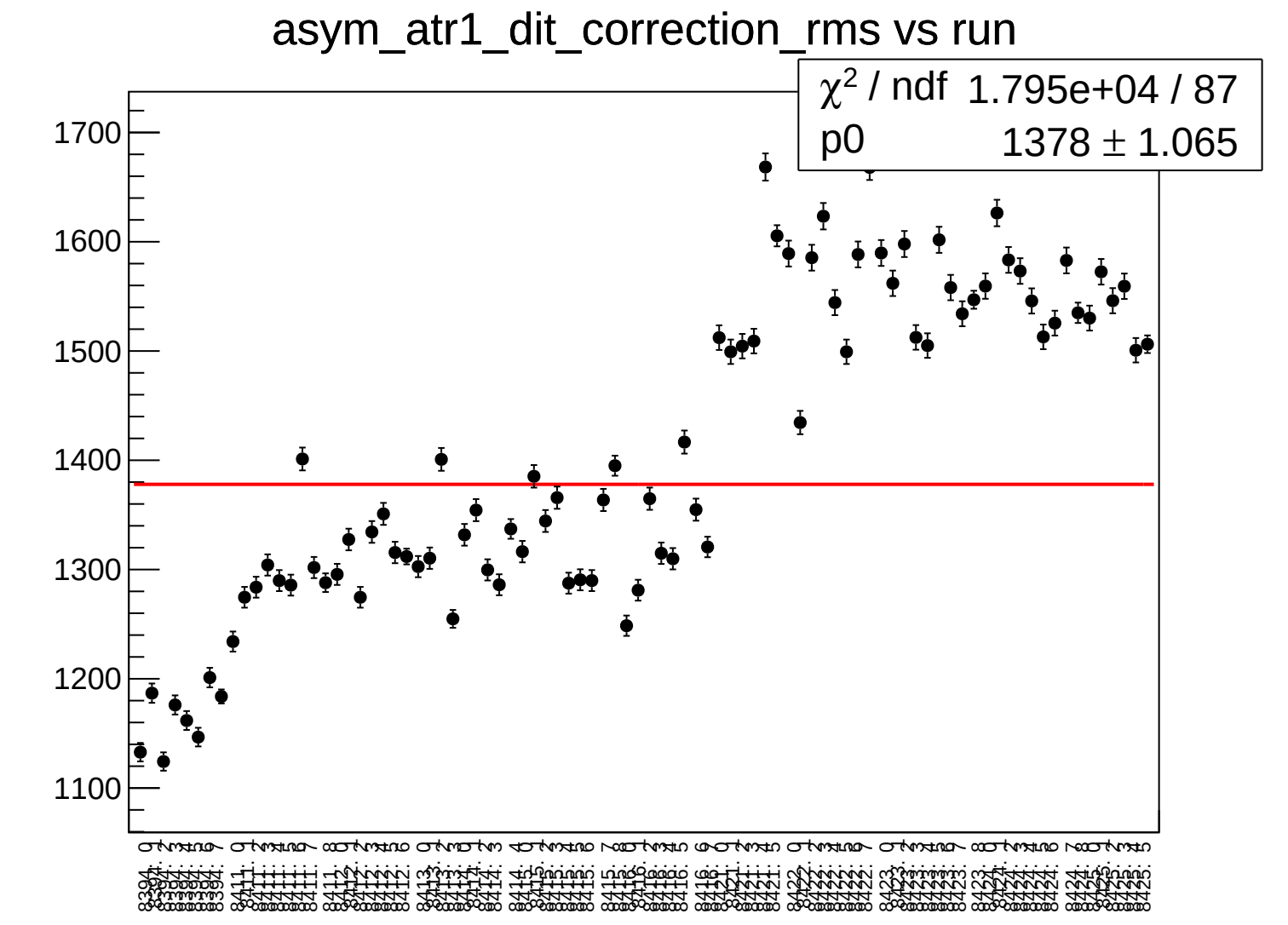

dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 76.31 / 87
p0 527.8 ± 2977
pull
Entries 88
Mean 14.31
Std Dev 0

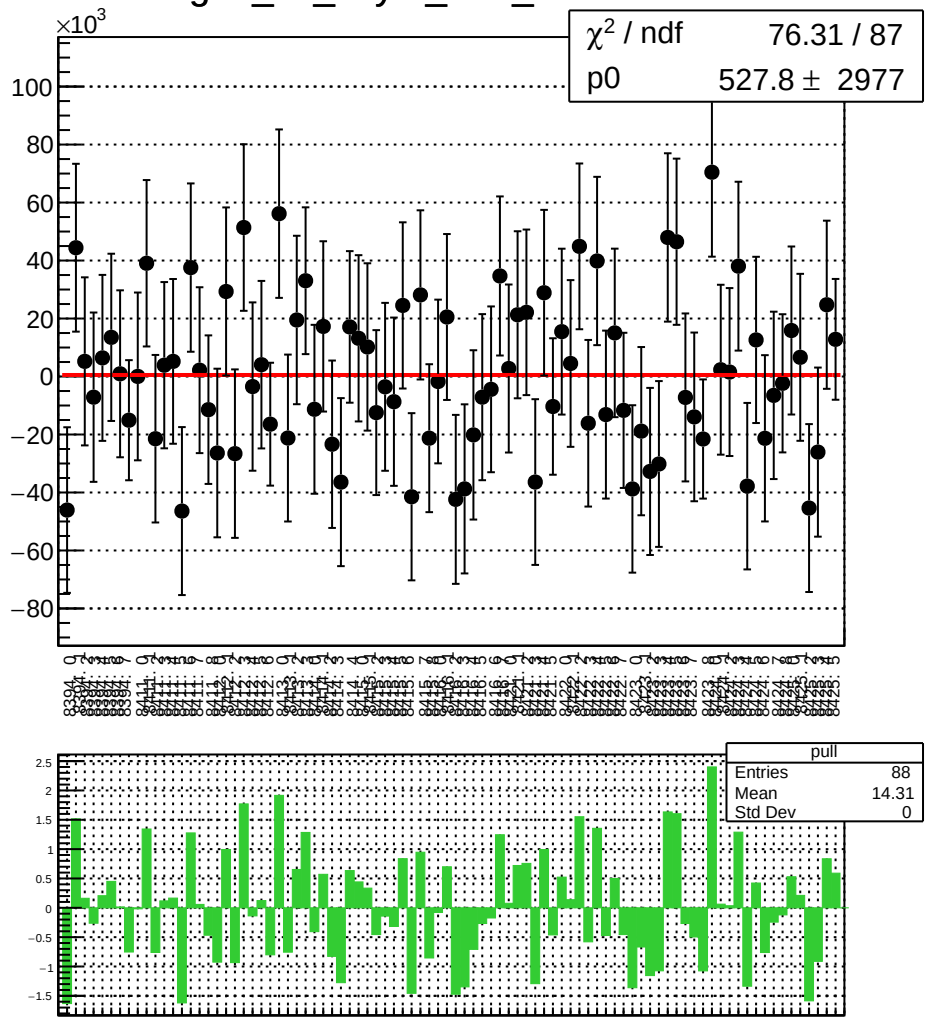

pull1D
Entries 88
Mean 0.009324
Std Dev 0.9311

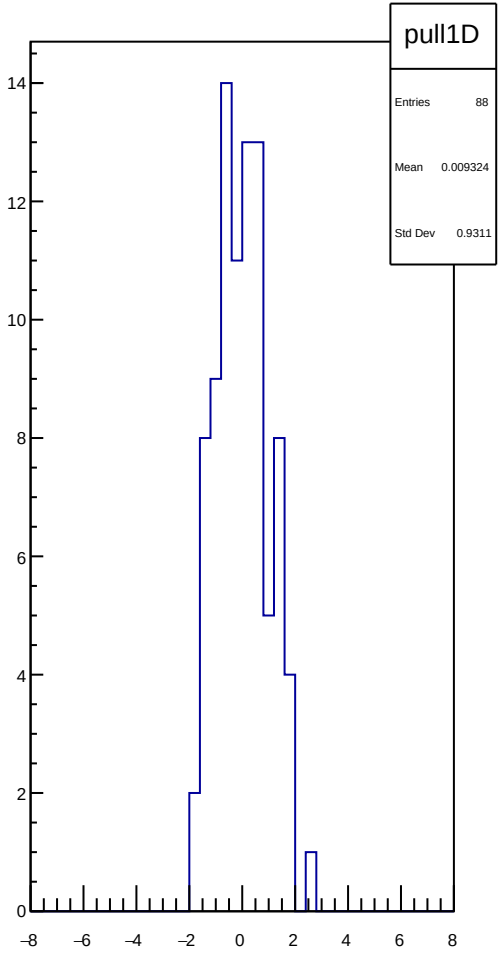

dit_asym_atr1_rms vs run
χ^2 / ndf 93.47 / 87
p0 2739 ± 2.105
2820
2800
2780
2760
2740
2720
2700
2680
2660

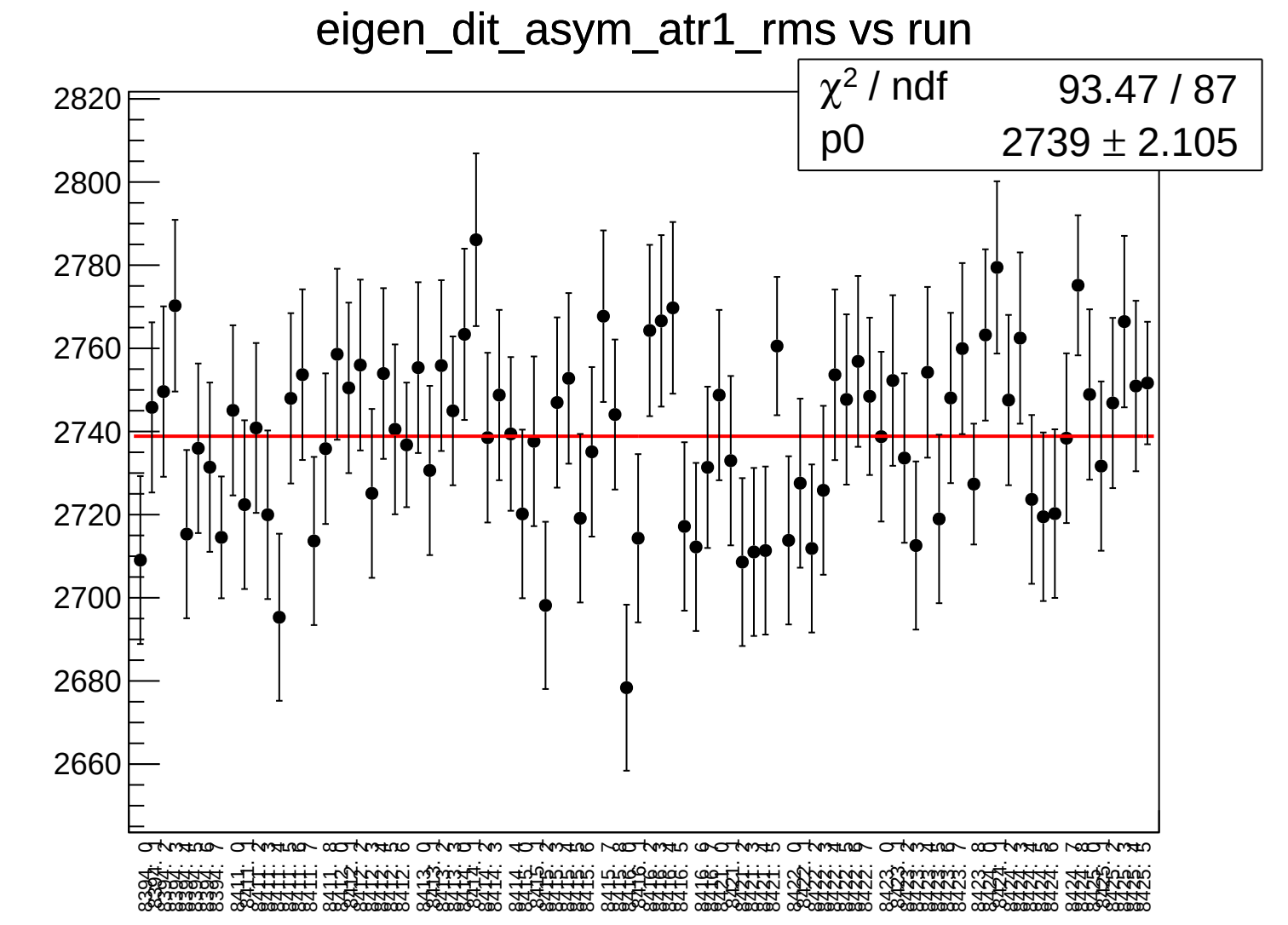

asym_atr1_dit_correction_mean vs run
χ² / ndf 73.39 / 87
p0 −3992 ± 1506
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 33.53
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

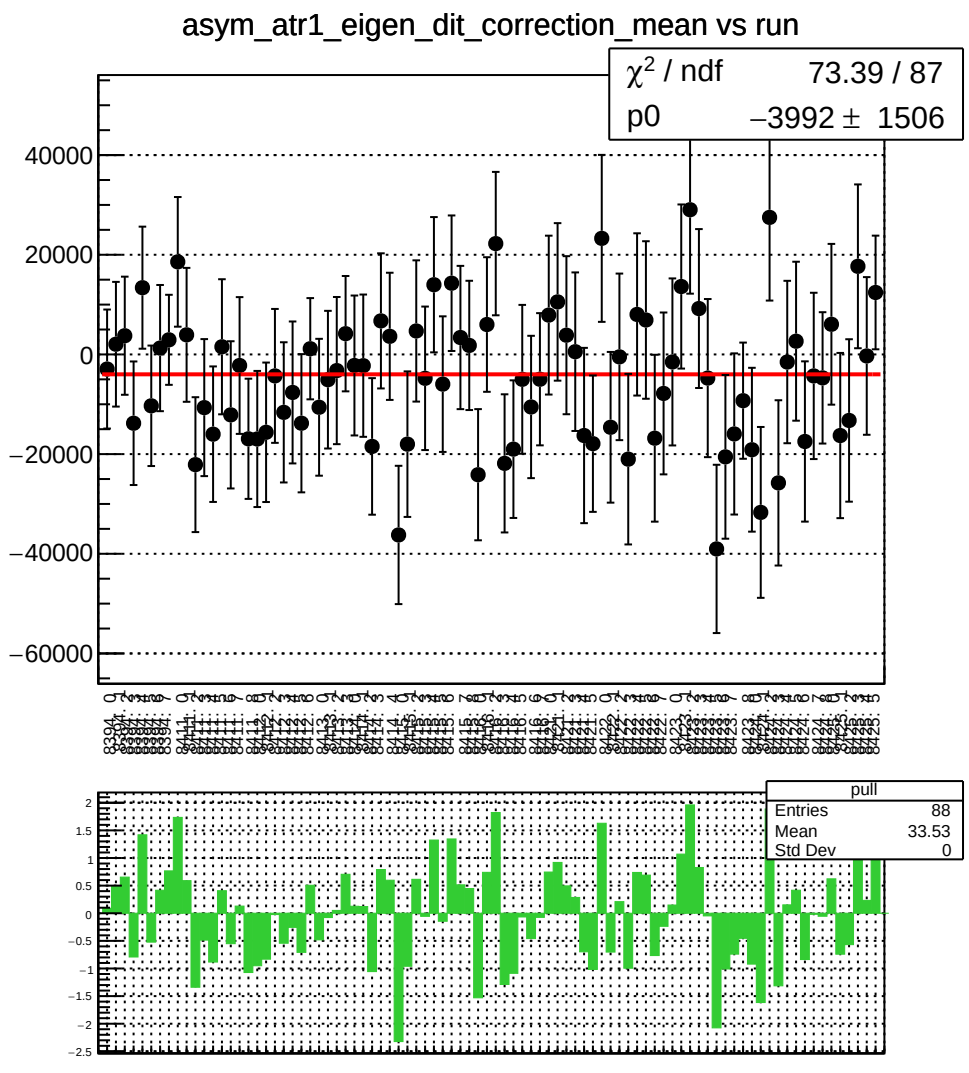

pull1D
Entries 88
Mean −0.01344
Std Dev 0.9131
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

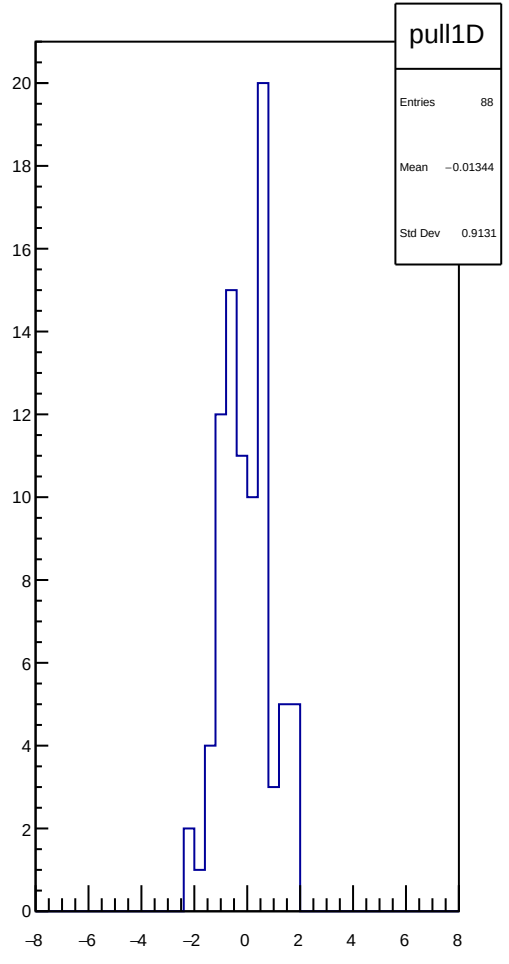

asym_atr1_dit_correction_rms vs run
χ² / ndf 1.795e+04 / 87
p0 1378 ± 1.065
1700
1600
1500
1400
1300
1200
1100

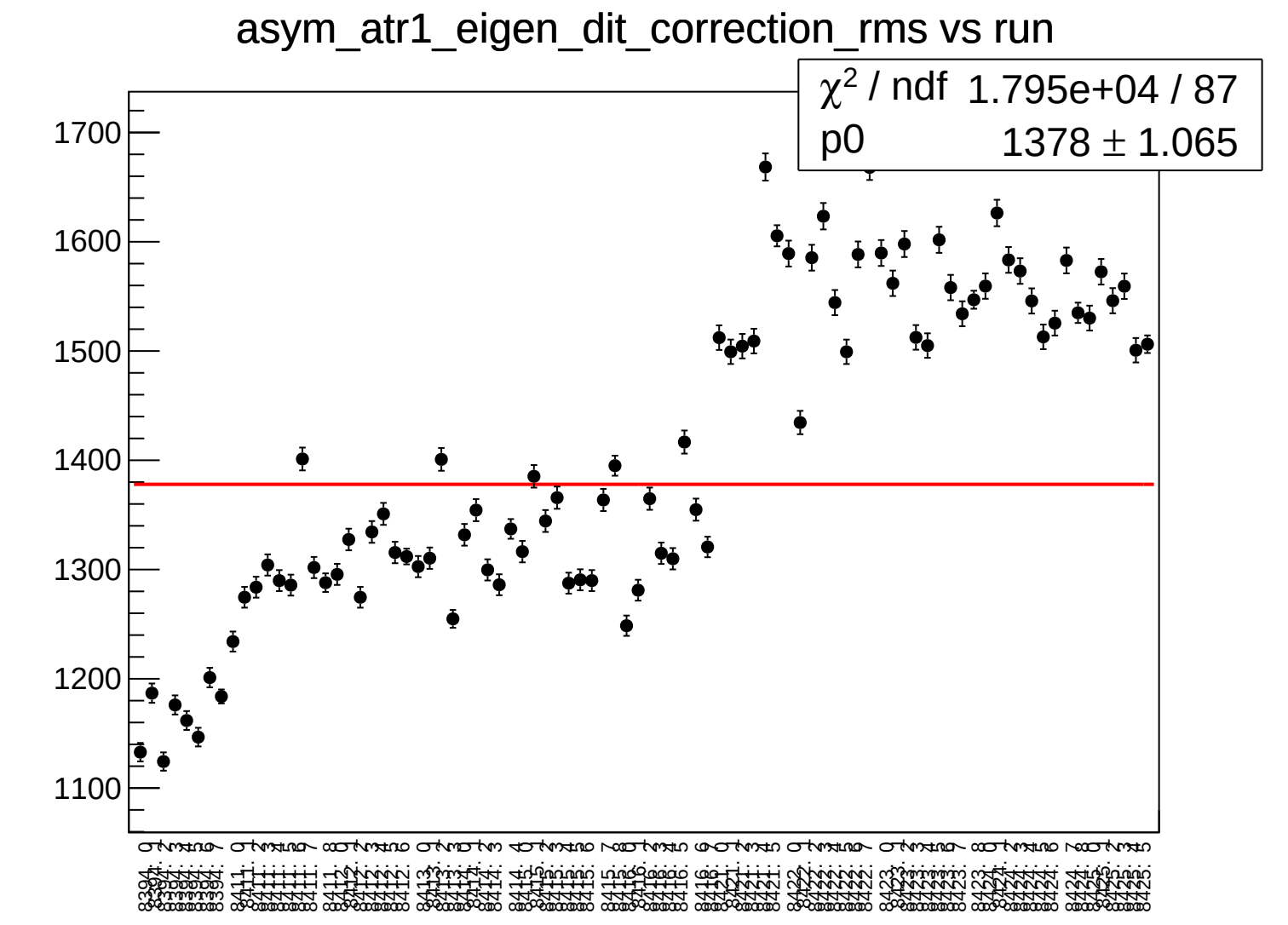

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 76.31 / 87
p0 527.8 ± 2977
pull
Entries 88
Mean 14.31
Std Dev 0

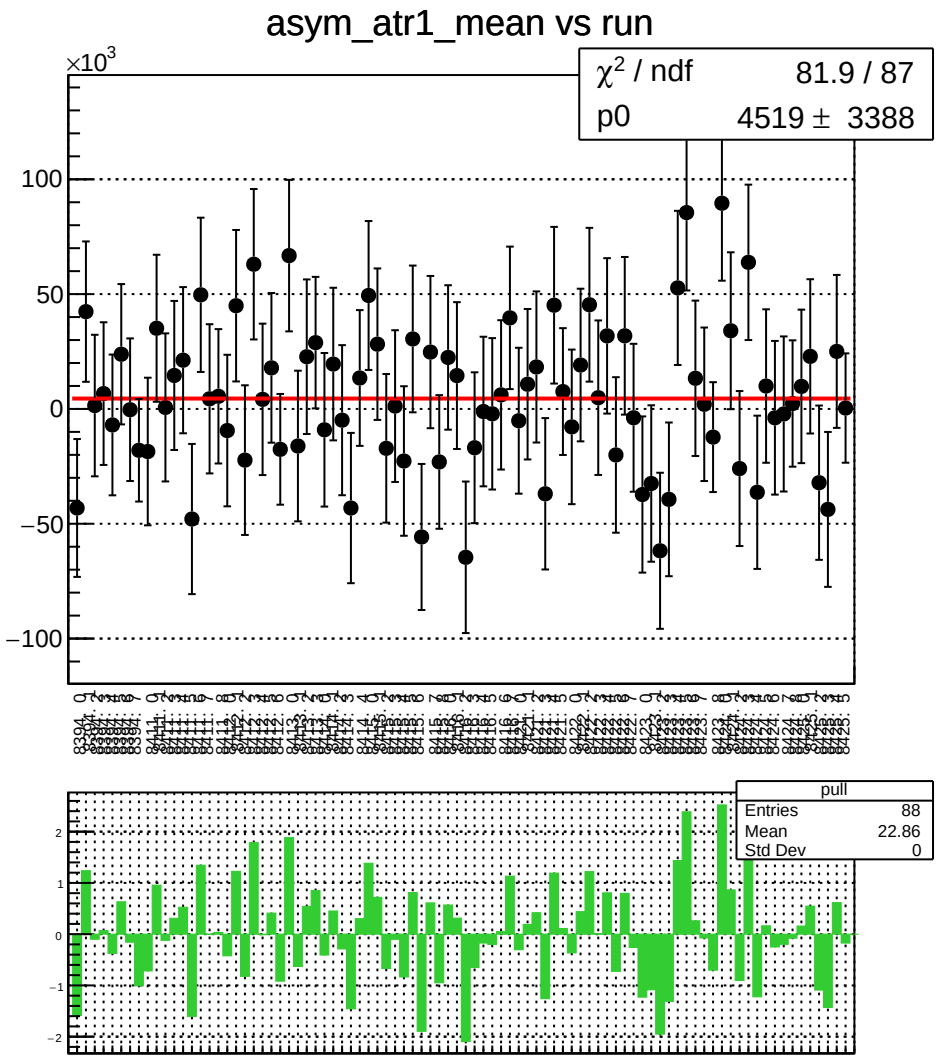

pull1D
Entries 88
Mean 0.009324
Std Dev 0.9311

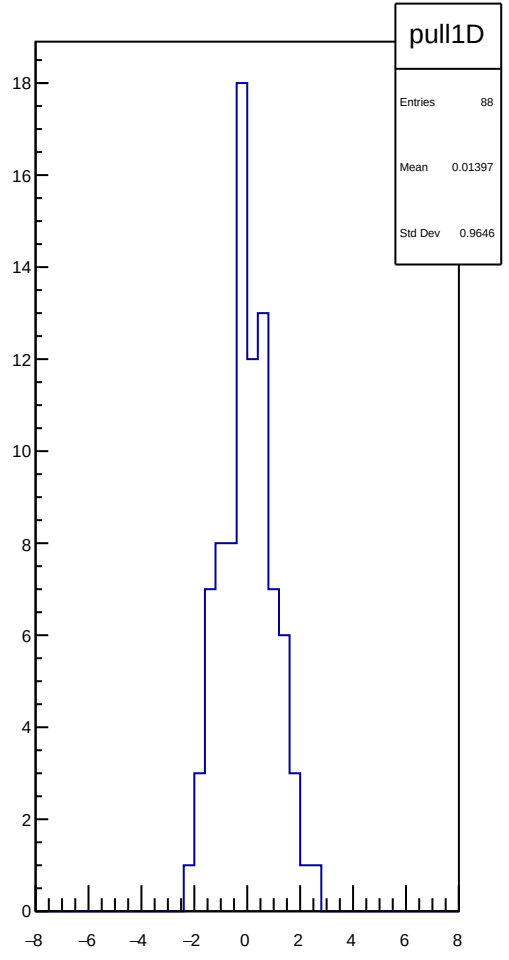

eigen_dit_asym_atr1_rms vs run
χ^2 / ndf 93.47 / 87
p0 2739 ± 2.105
2820
2800
2780
2760
2740
2720
2700
2680
2660

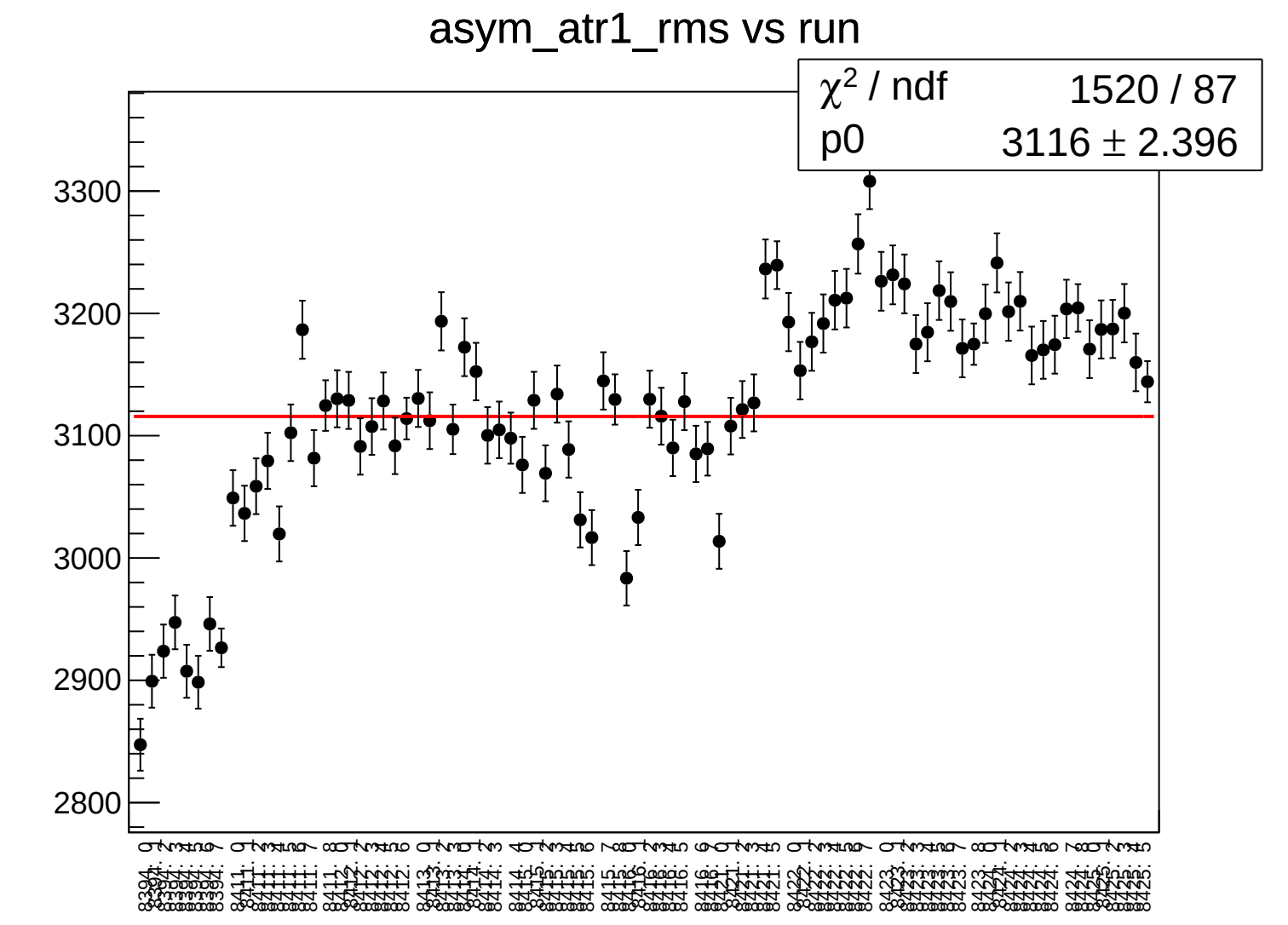

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 73.39 / 87
p0 −3992 ± 1506
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 33.53
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

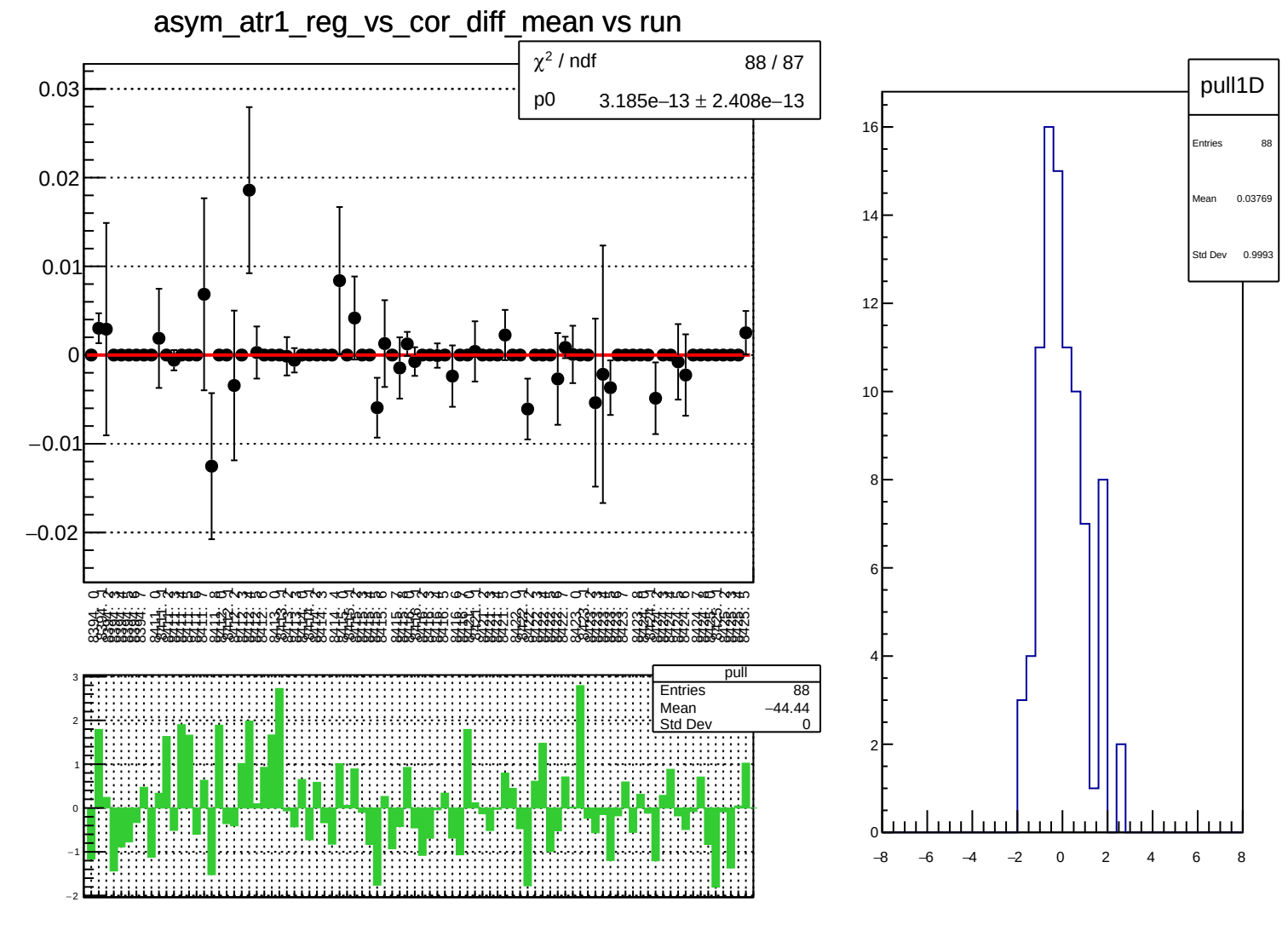

pull1D
Entries 88
Mean −0.01344
Std Dev 0.9131
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

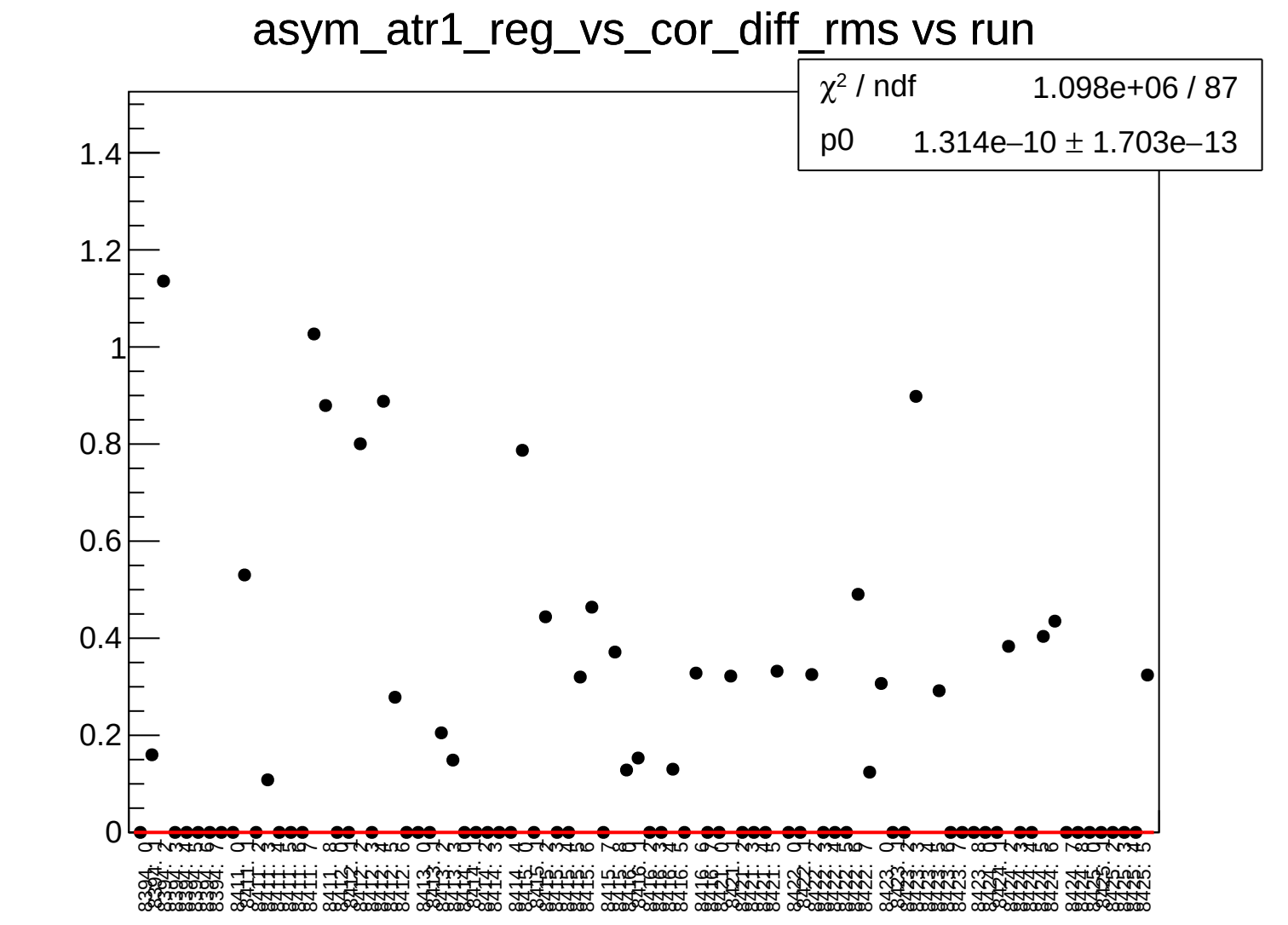

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 1.795e+04 / 87
p0 1378 ± 1.065
1700
1600
1500
1400
1300
1200
1100

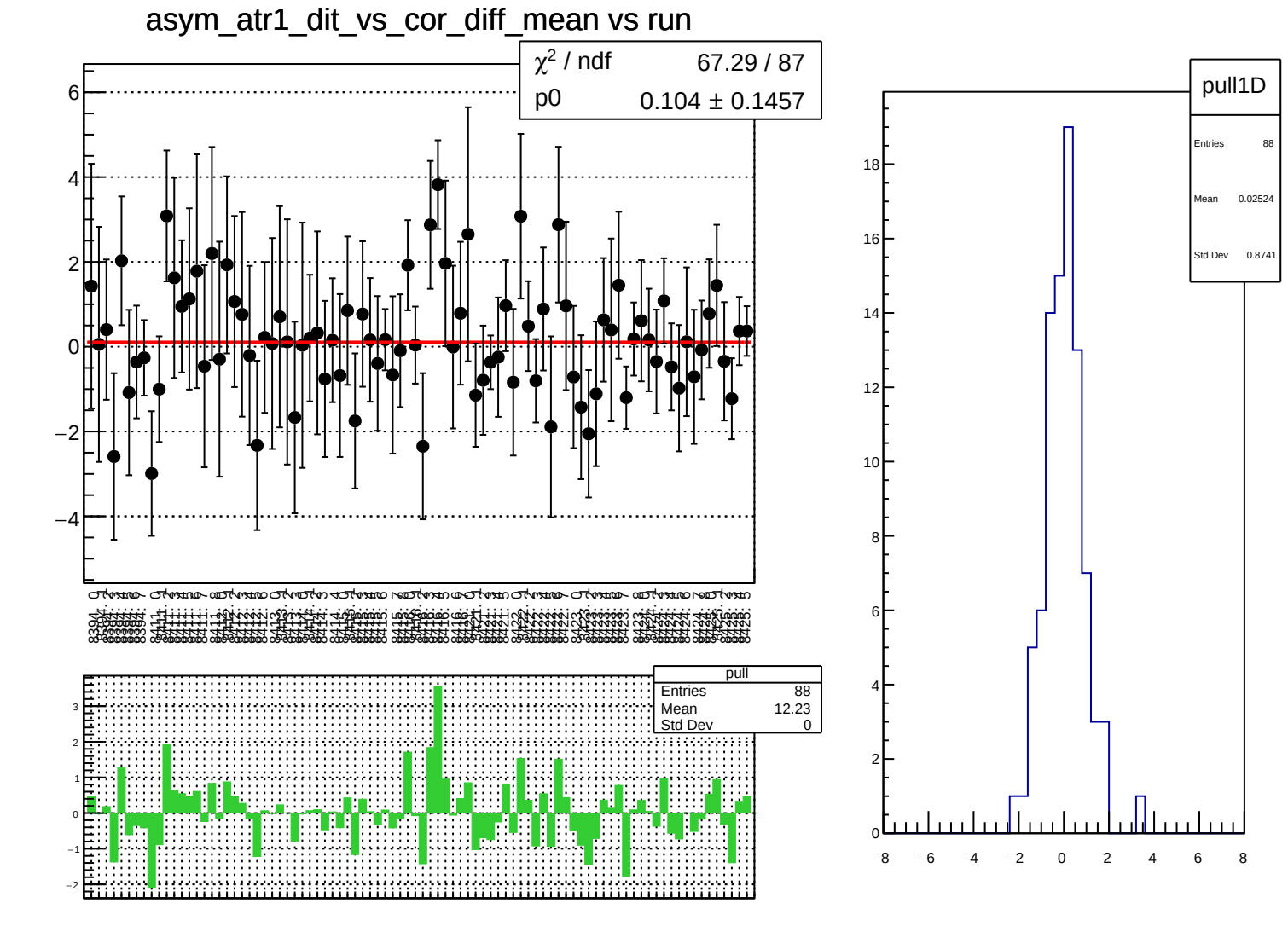

asym_atr1_mean vs run
×10^3
χ² / ndf 81.9 / 87
p0 4519 ± 3388
100
50
0
−50
−100
pull
Entries 88
Mean 22.86
Std Dev 0
2
1
0
−1
−2

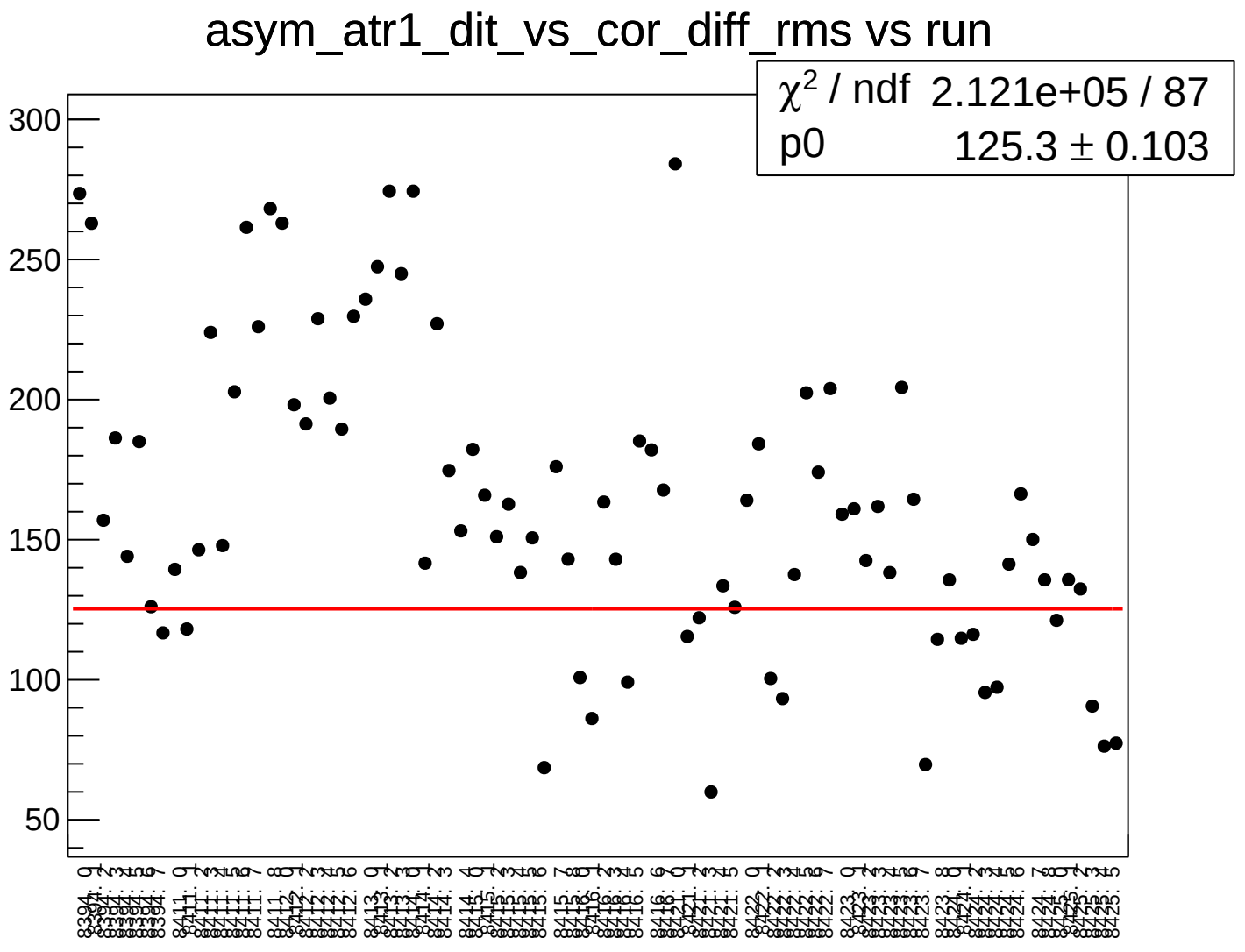

pull1D
Entries 88
Mean 0.01397
Std Dev 0.9646
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

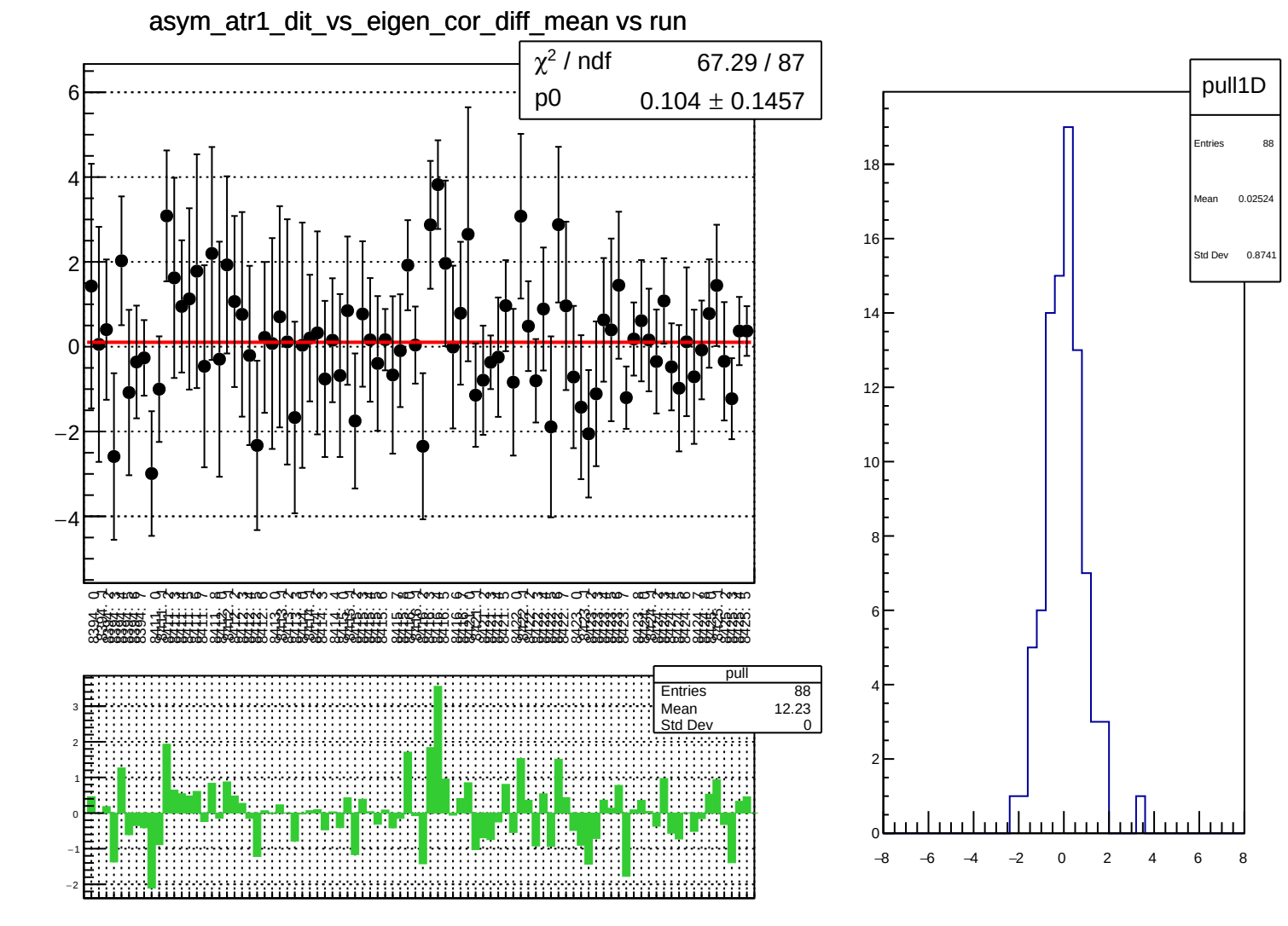

asym_atr1_rms vs run
χ² / ndf 1520 / 87
p0 3116 ± 2.396
3300
3200
3100
3000
2900
2800

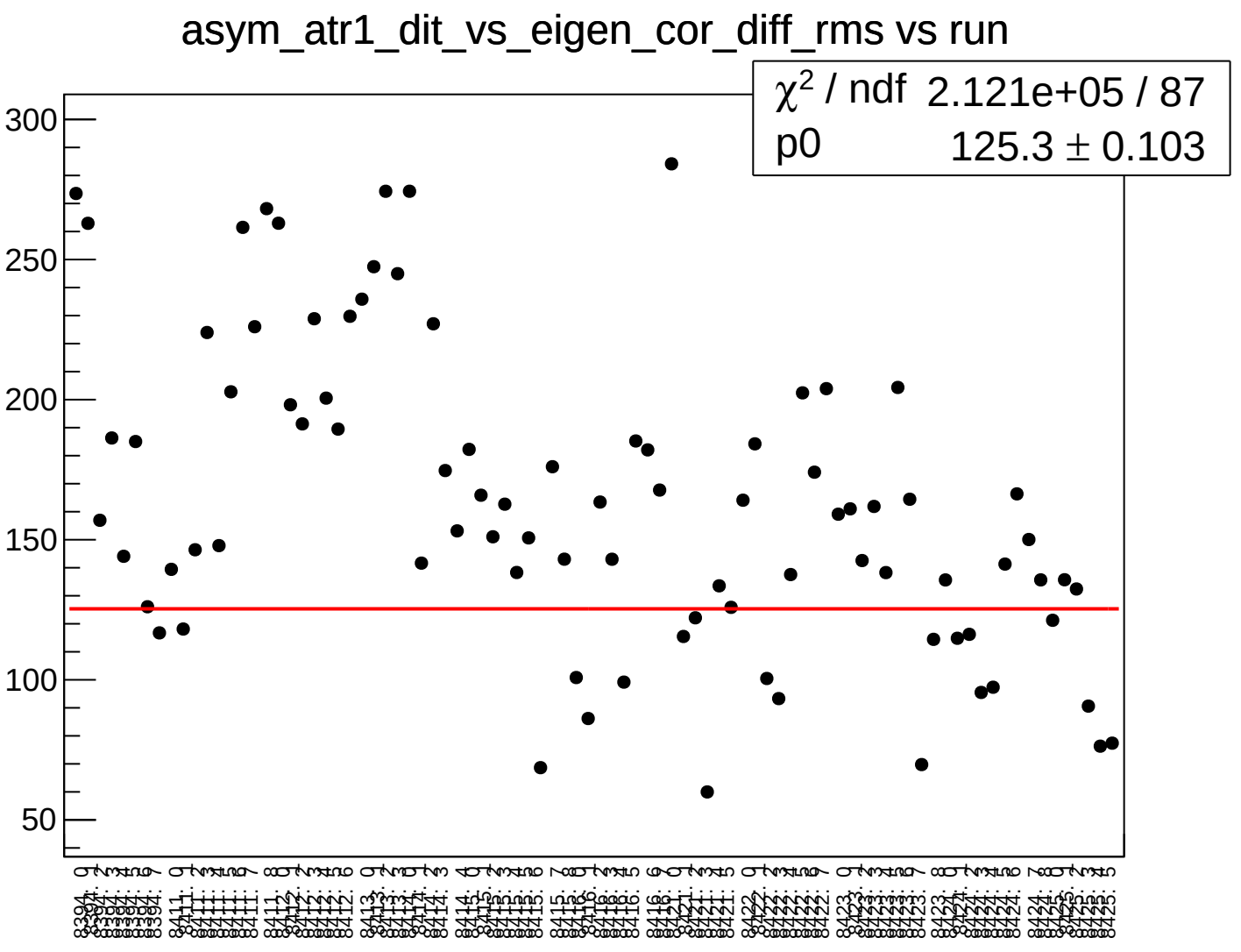

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 88 / 87
p0 3.185e−13 ± 2.408e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 88
Mean −44.44
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.03769
Std Dev 0.9993
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

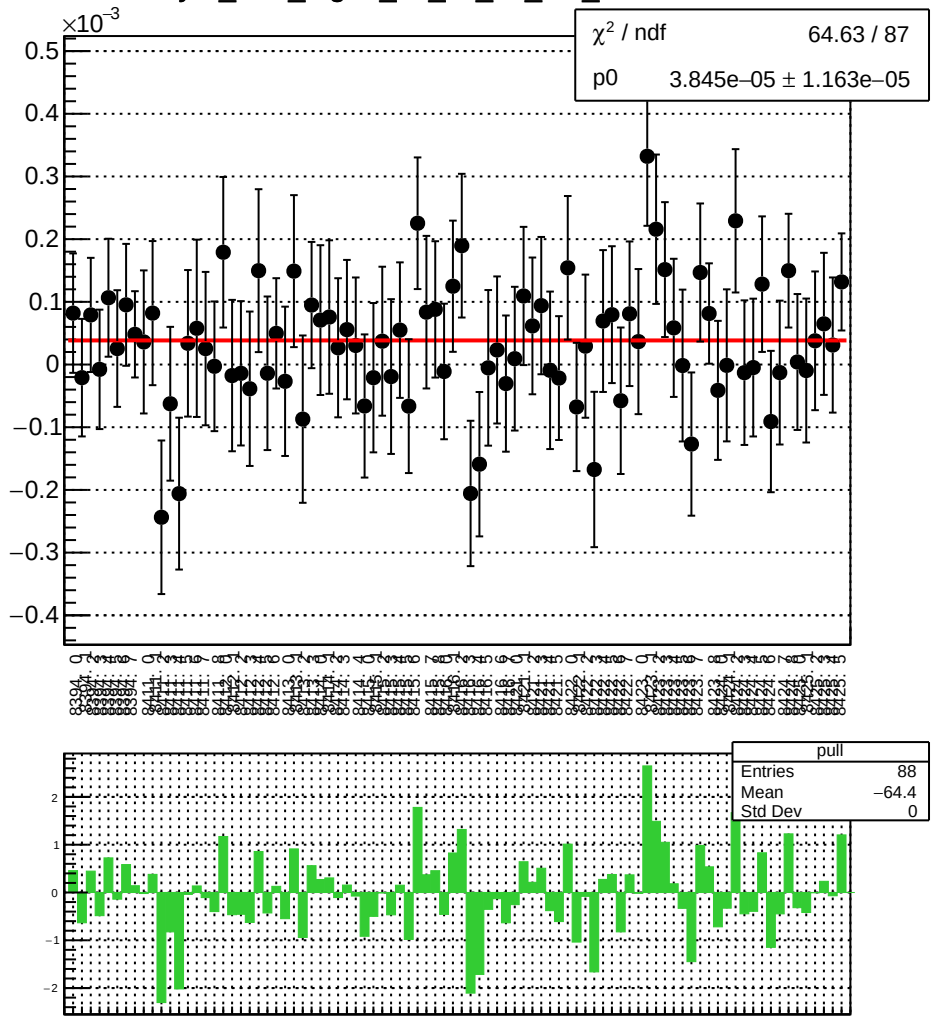

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.098e+06 / 87
p0 1.314e−10 ± 1.703e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

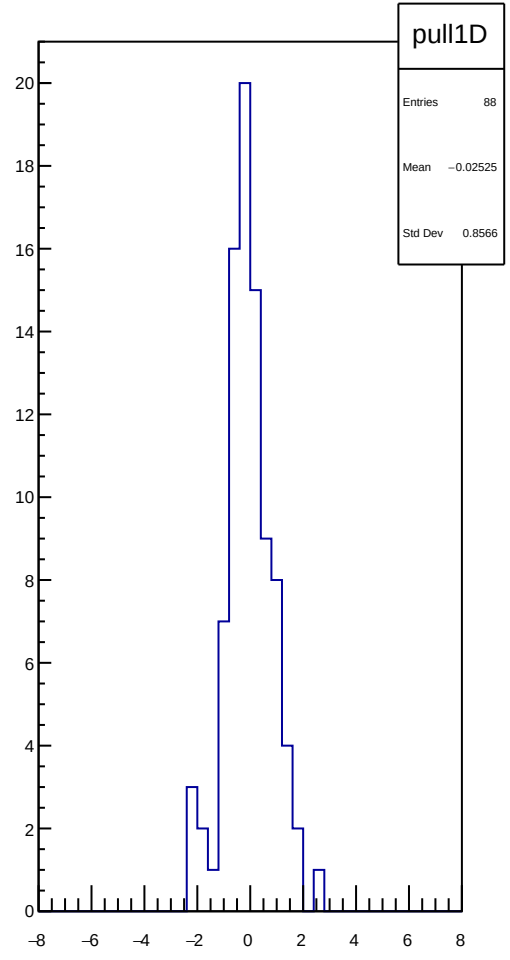

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 67.29 / 87
p0 0.104 ± 0.1457
pull
Entries 88
Mean 12.23
Std Dev 0
pull1D
Entries 88
Mean 0.02524
Std Dev 0.8741

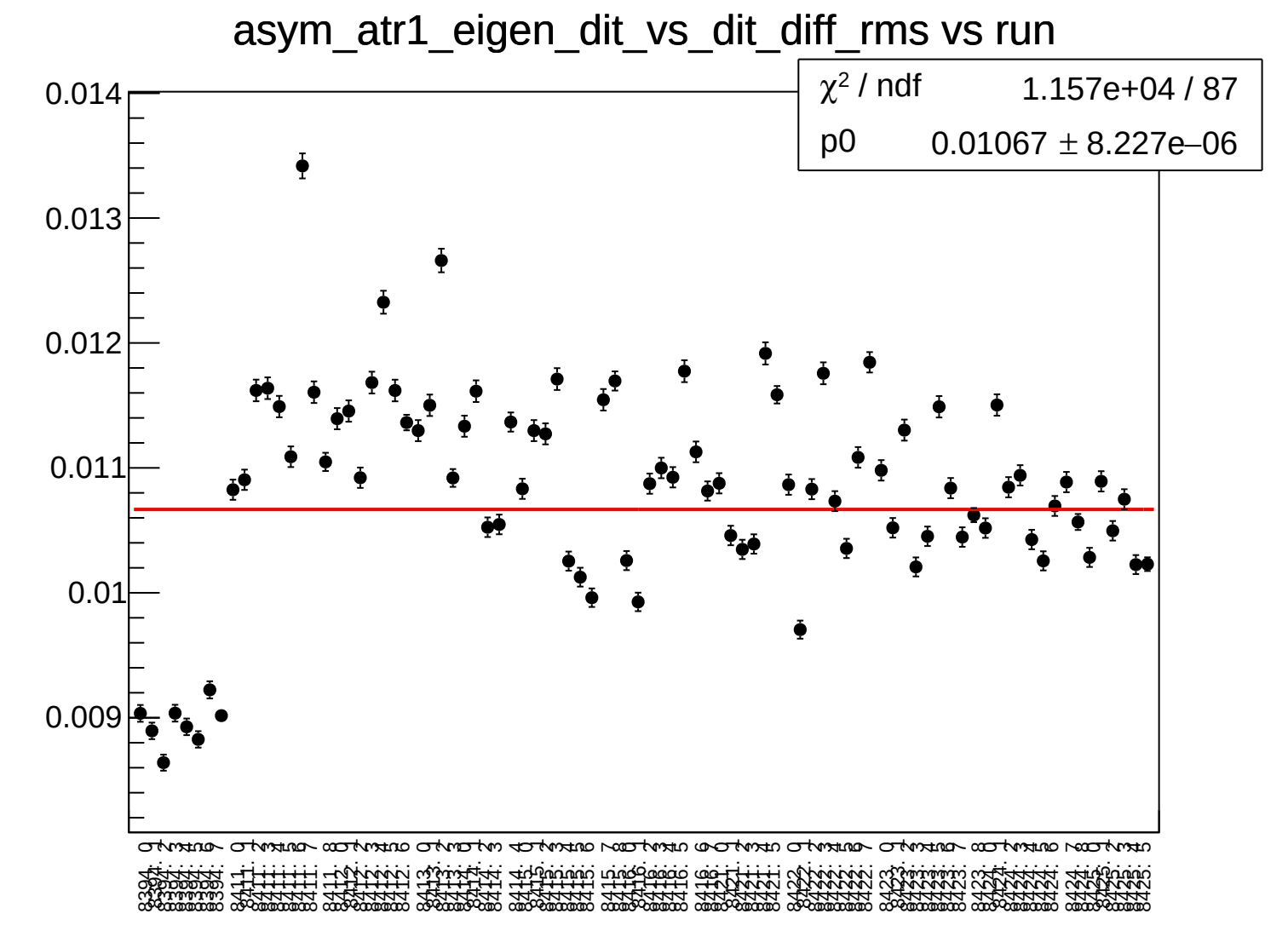

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.121e+05 / 87
p0 125.3 ± 0.103
300
250
200
150
100
50

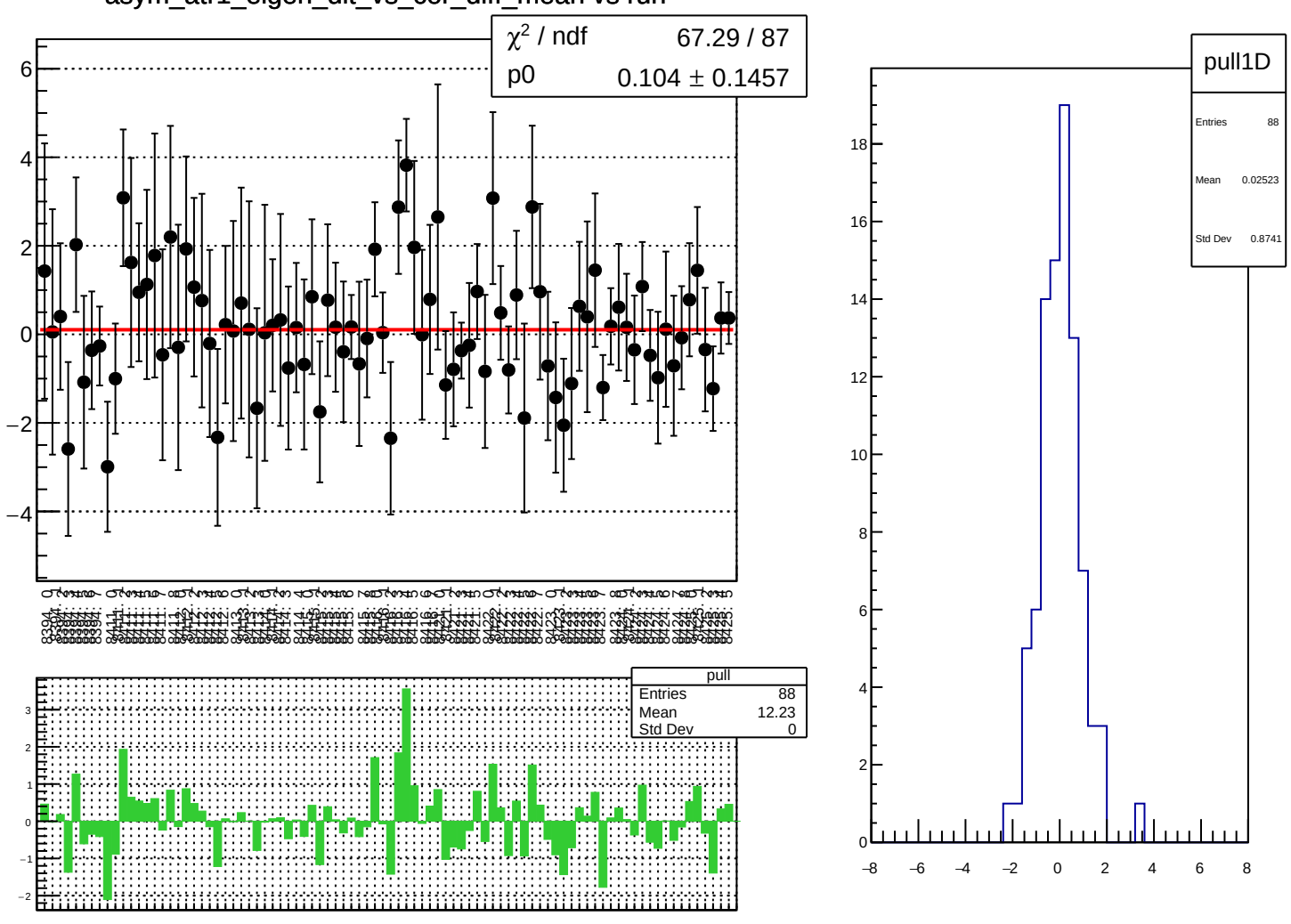

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.29 / 87
p0 0.104 ± 0.1457
pull
Entries 88
Mean 12.23
Std Dev 0
pull1D
Entries 88
Mean 0.02524
Std Dev 0.8741

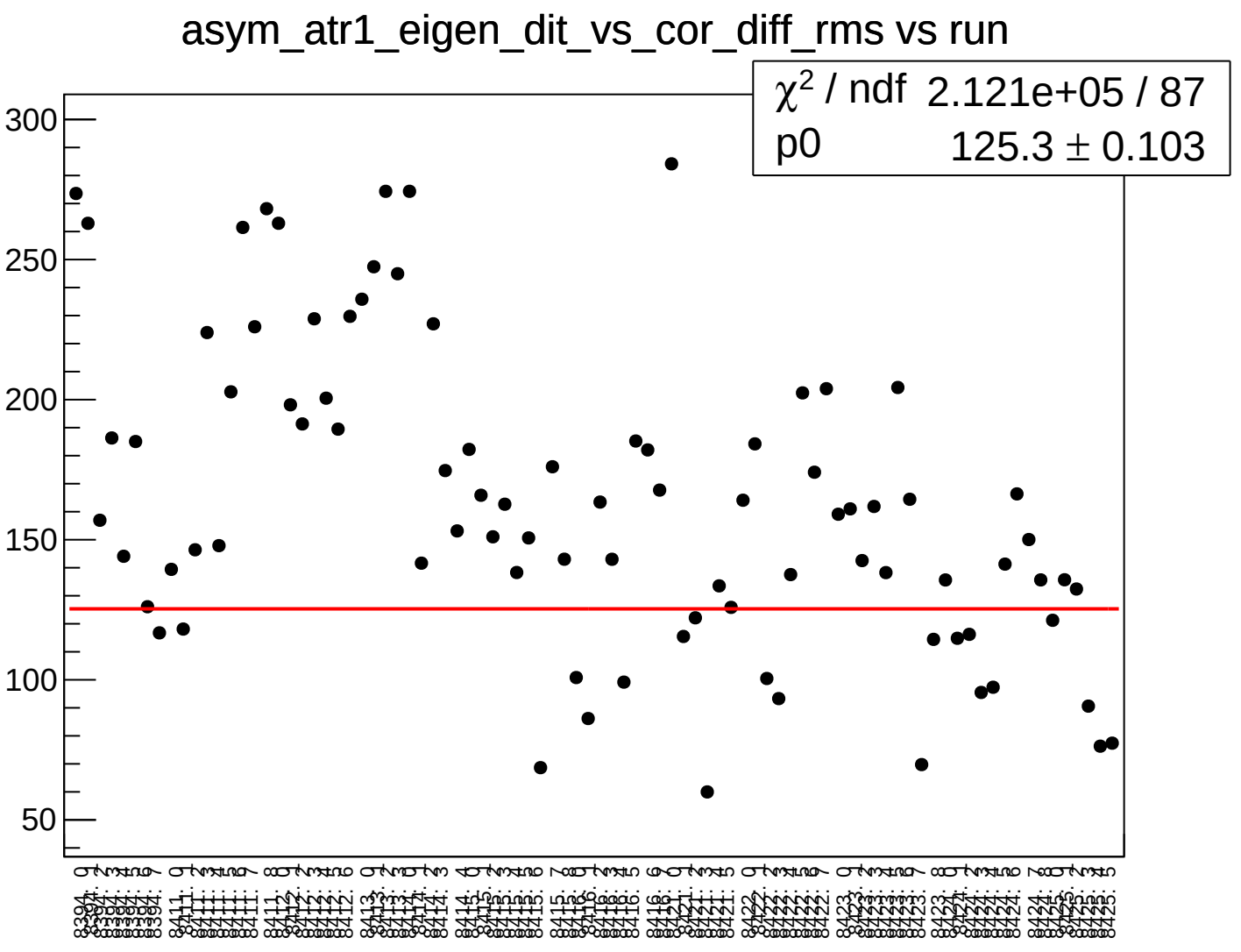

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.121e+05 / 87
p0 125.3 ± 0.103
300
250
200
150
100
50

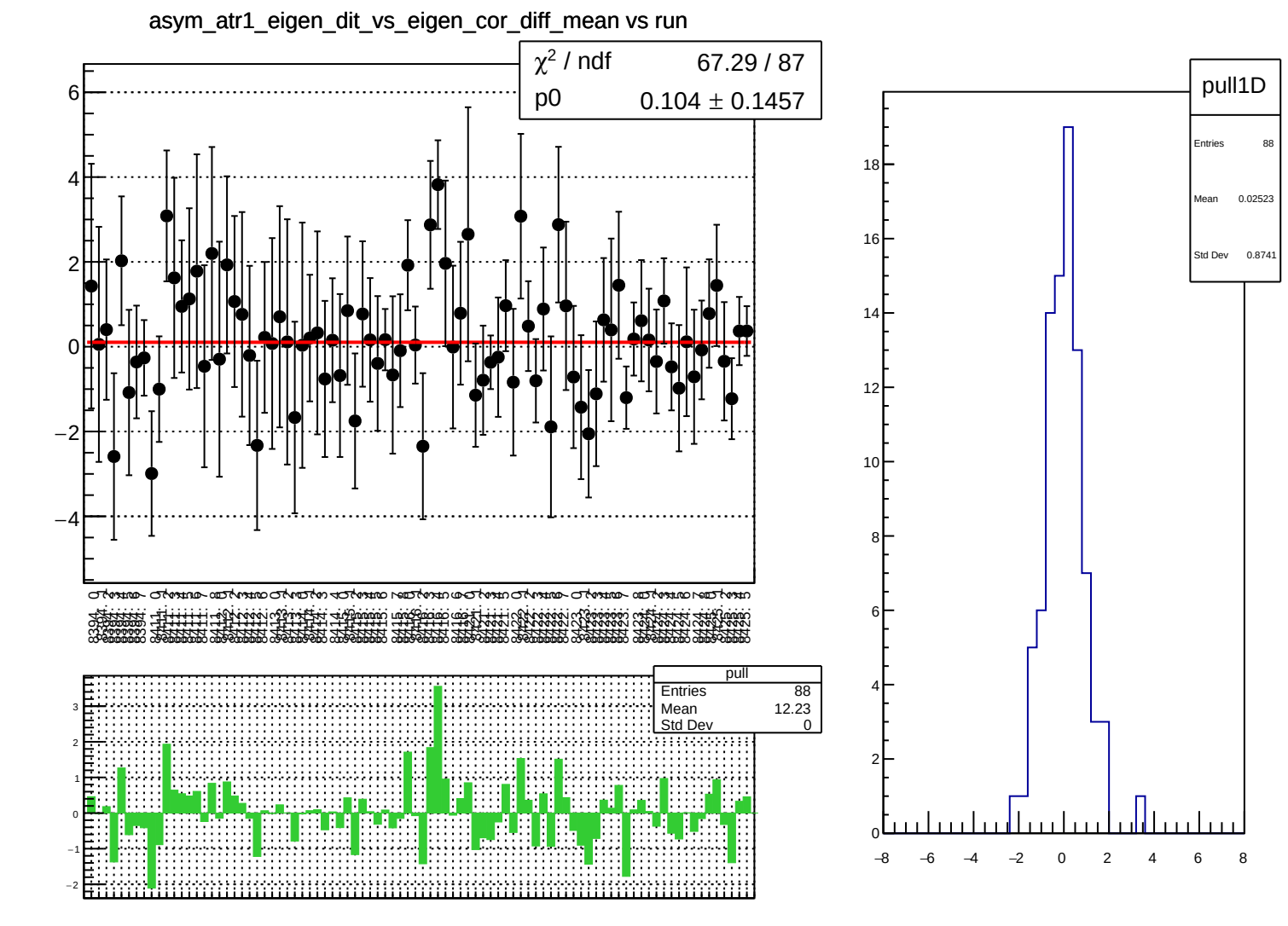

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 64.63 / 87
p0 3.845e−05 ± 1.163e−05
pull
Entries 88
Mean −64.4
Std Dev 0

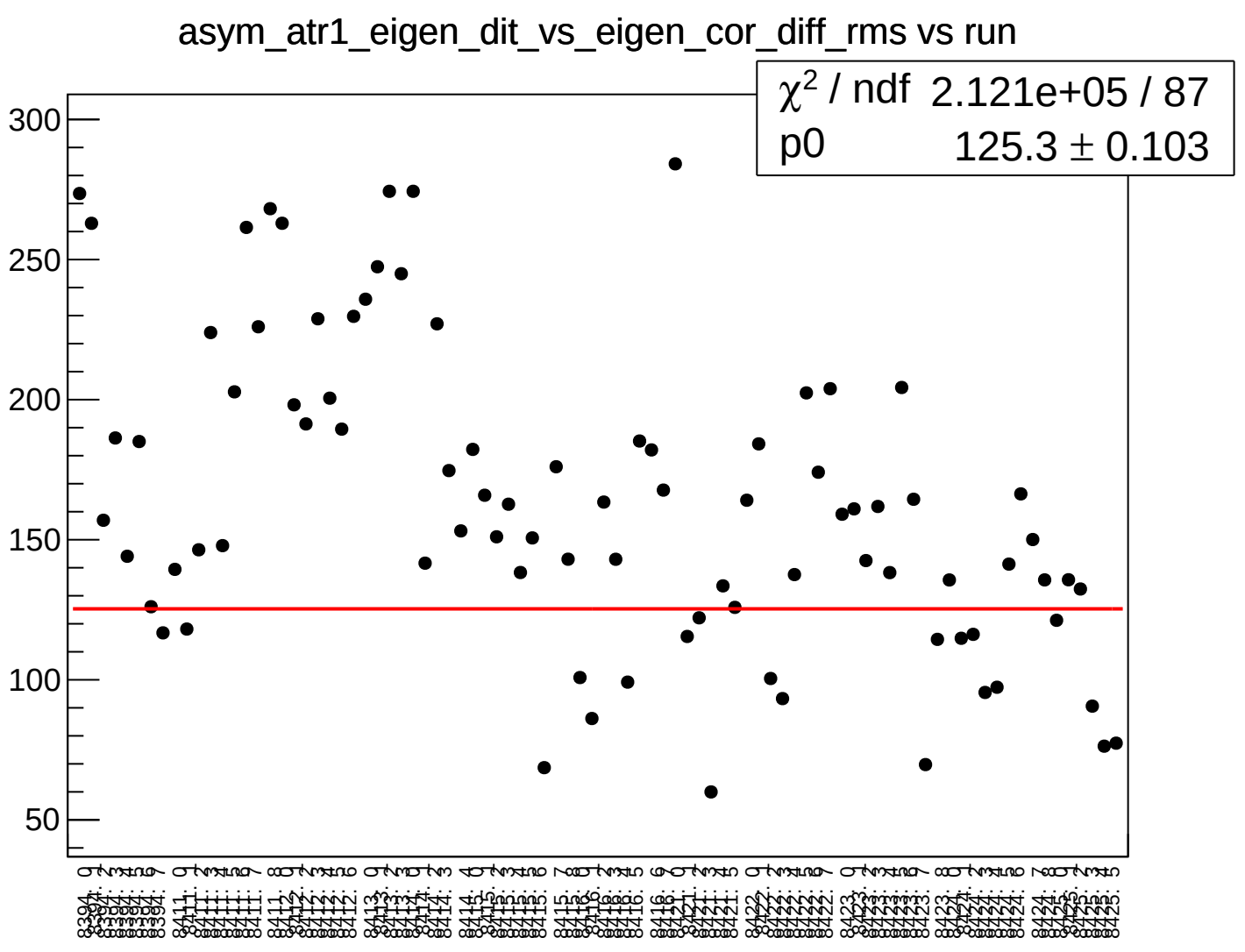

pull1D
Entries 88
Mean −0.02525
Std Dev 0.8566

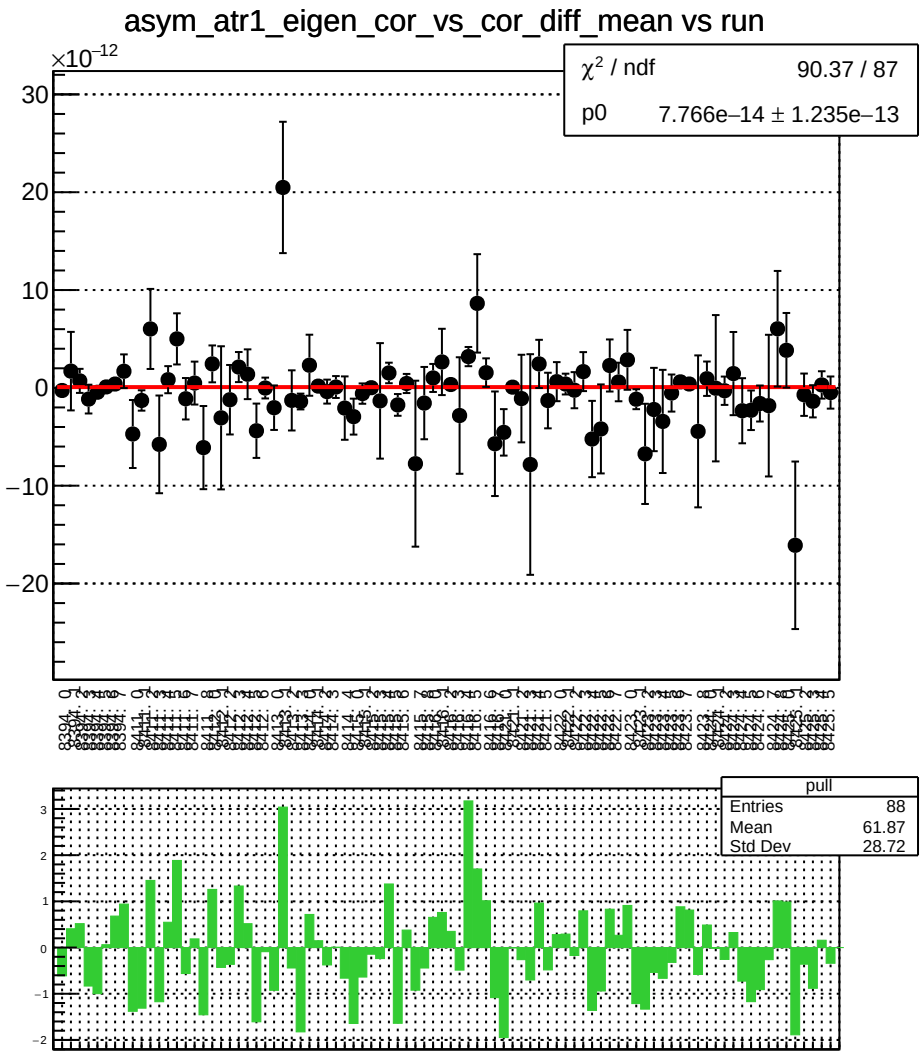

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.157e+04 / 87
p0 0.01067 ± 8.227e–06
0.014
0.013
0.012
0.011
0.01
0.009

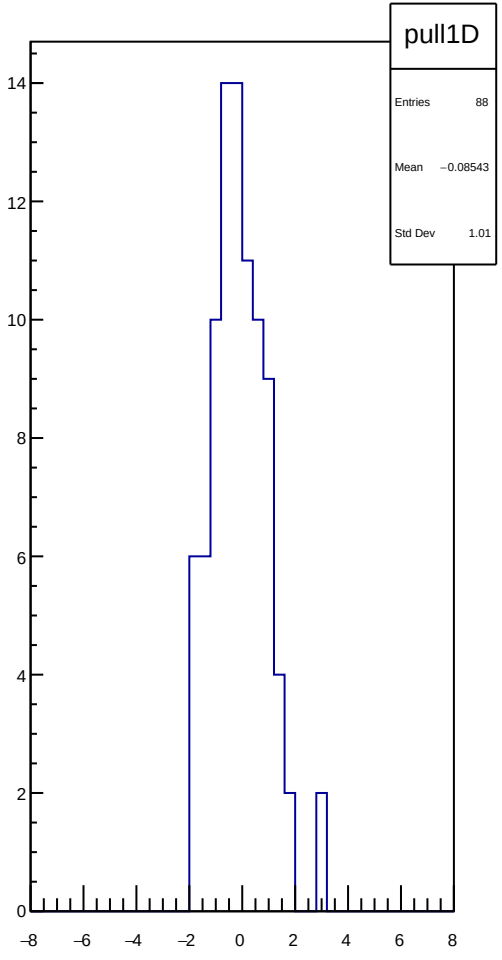

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.29 / 87
p0 0.104 ± 0.1457
pull
Entries 88
Mean 12.23
Std Dev 0
pull1D
Entries 88
Mean 0.02523
Std Dev 0.8741

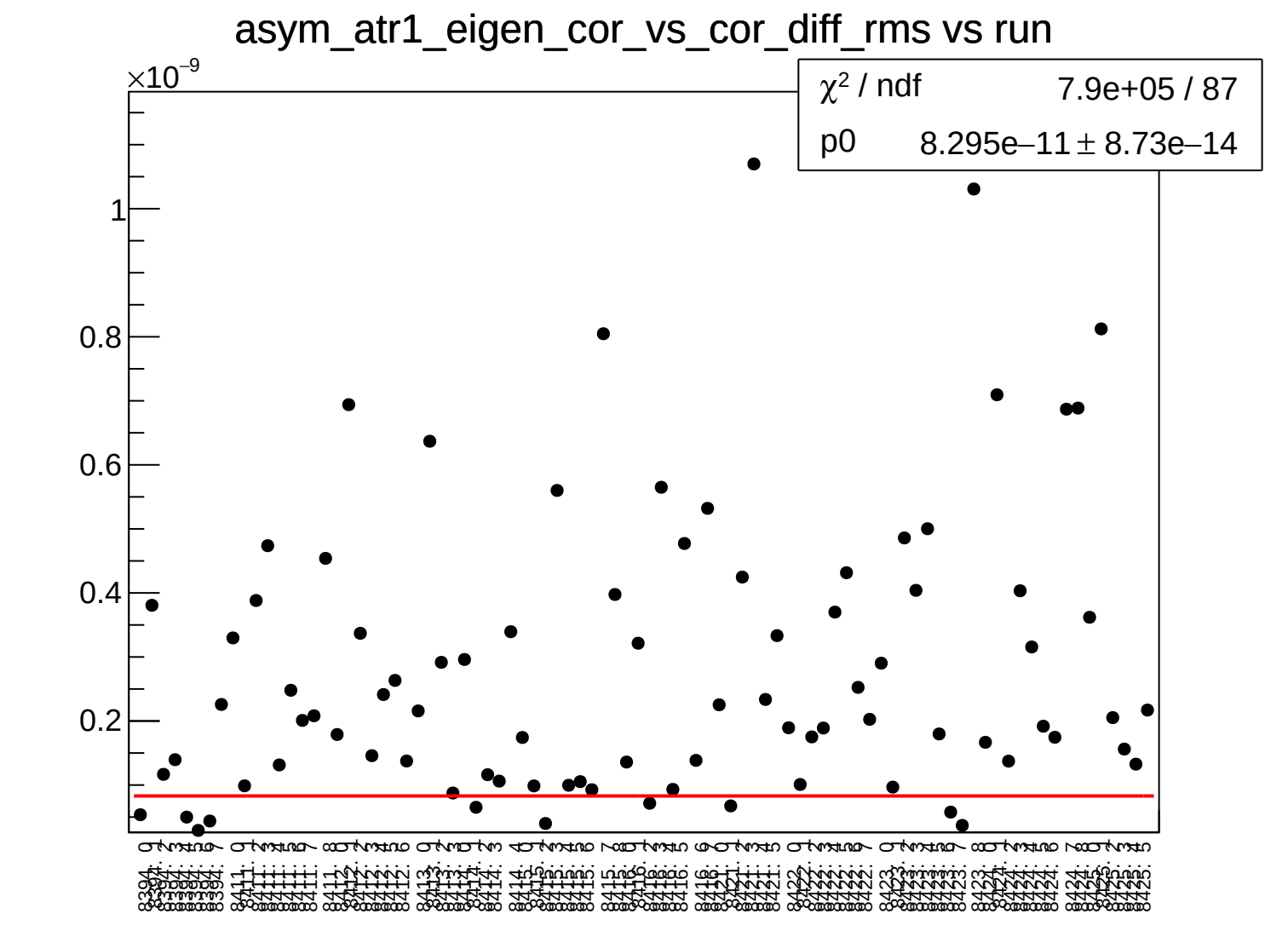

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.121e+05 / 87
p0 125.3 ± 0.103
300
250
200
150
100
50

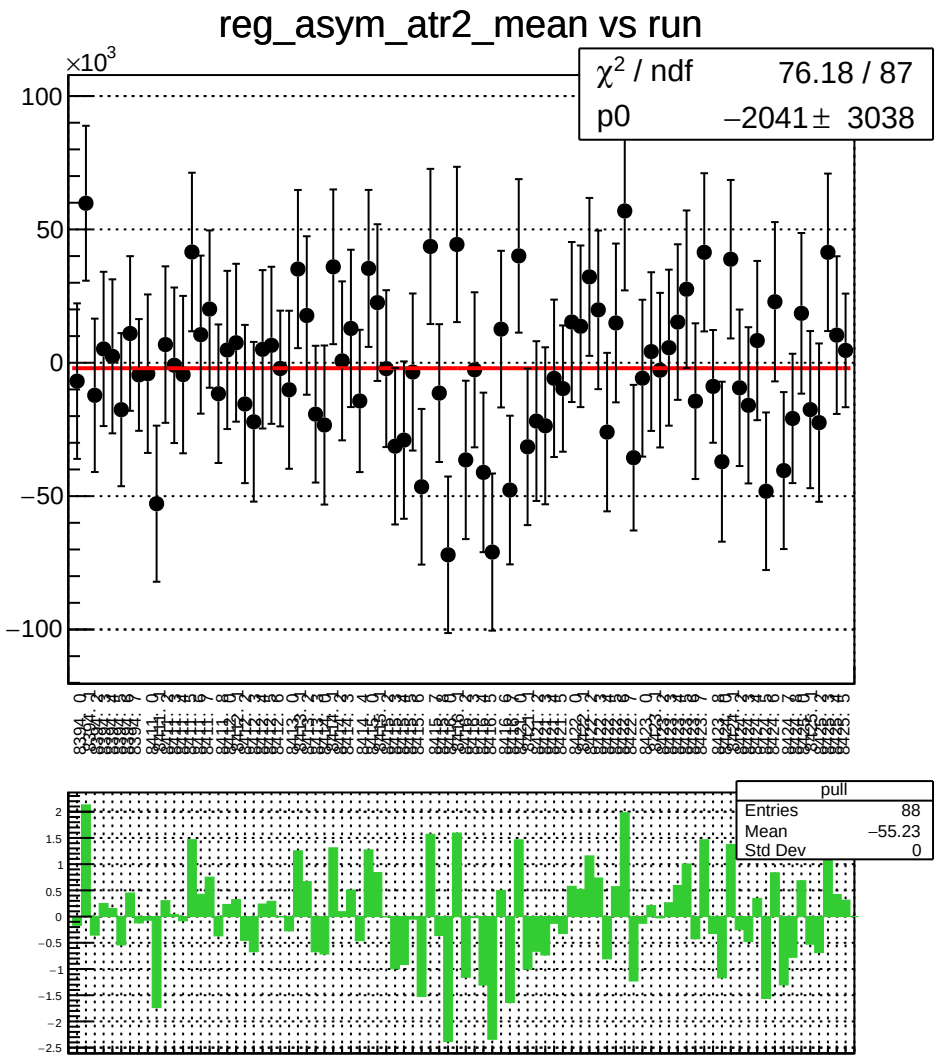

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.29 / 87
p0 0.104 ± 0.1457
pull
Entries 88
Mean 12.23
Std Dev 0
pull1D
Entries 88
Mean 0.02523
Std Dev 0.8741

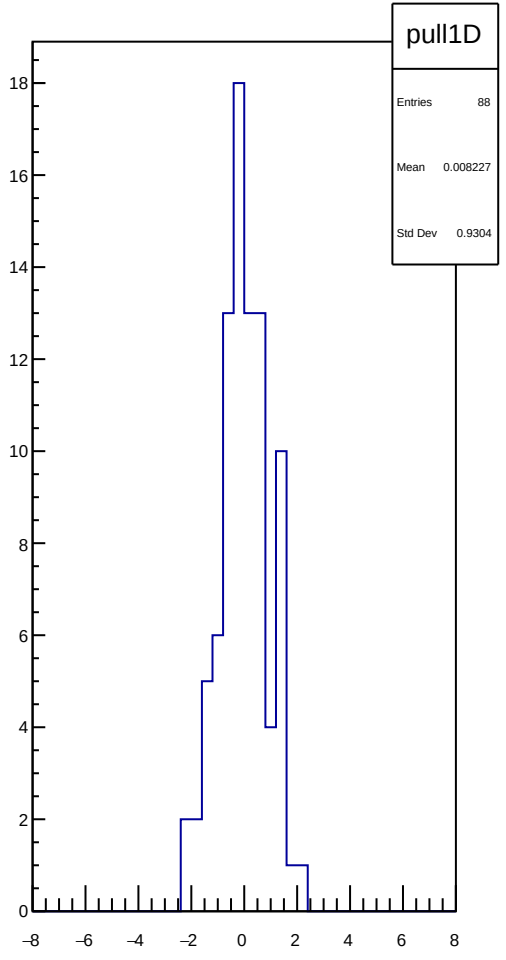

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.121e+05 / 87
p0 125.3 ± 0.103
300
250
200
150
100
50

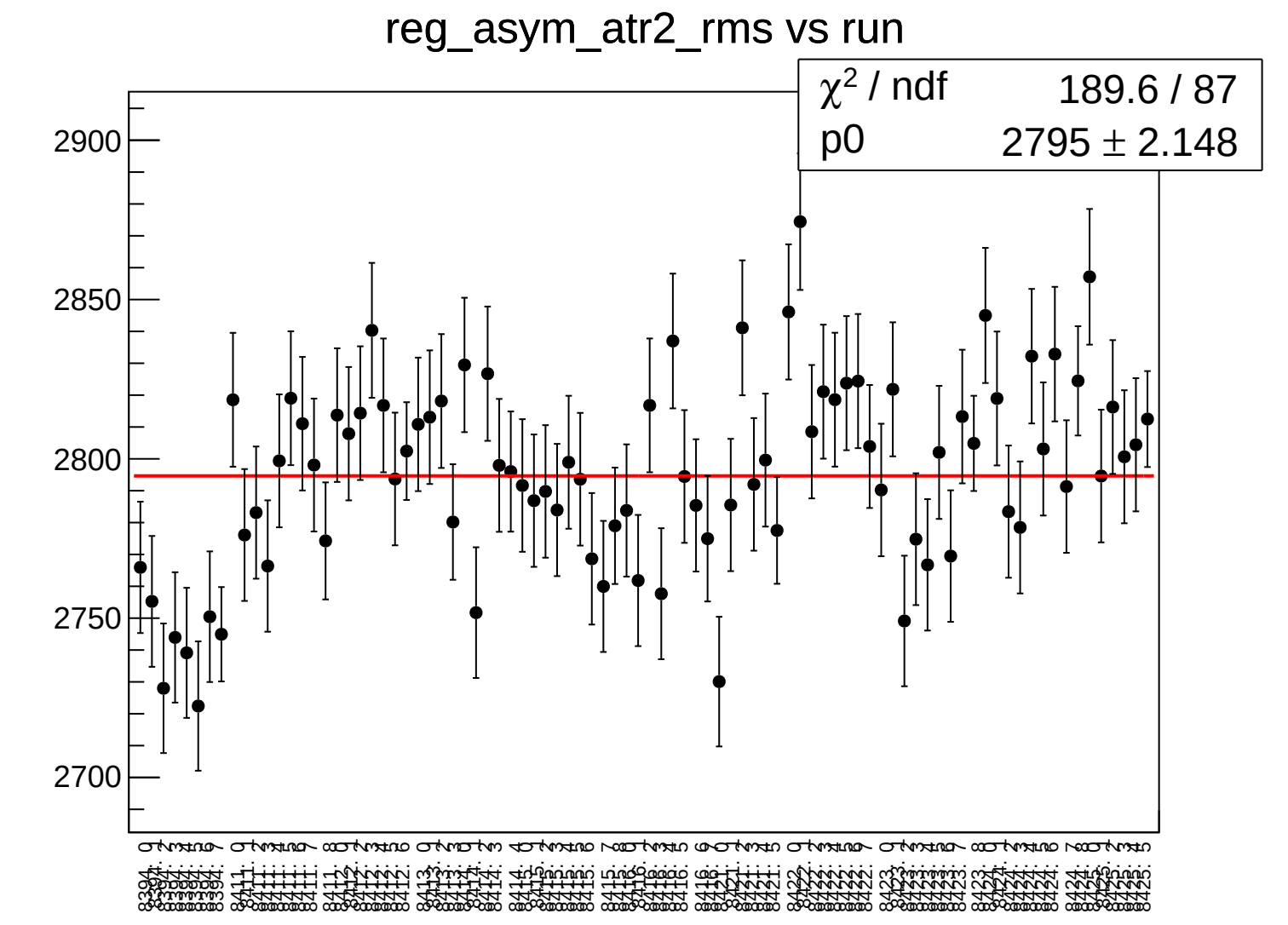

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.37 / 87
p0 7.766e−14 ± 1.235e−13
30
20
10
0
−10
−20
pull
Entries 88
Mean 61.87
Std Dev 28.72
3
2
1
0
−1
−2

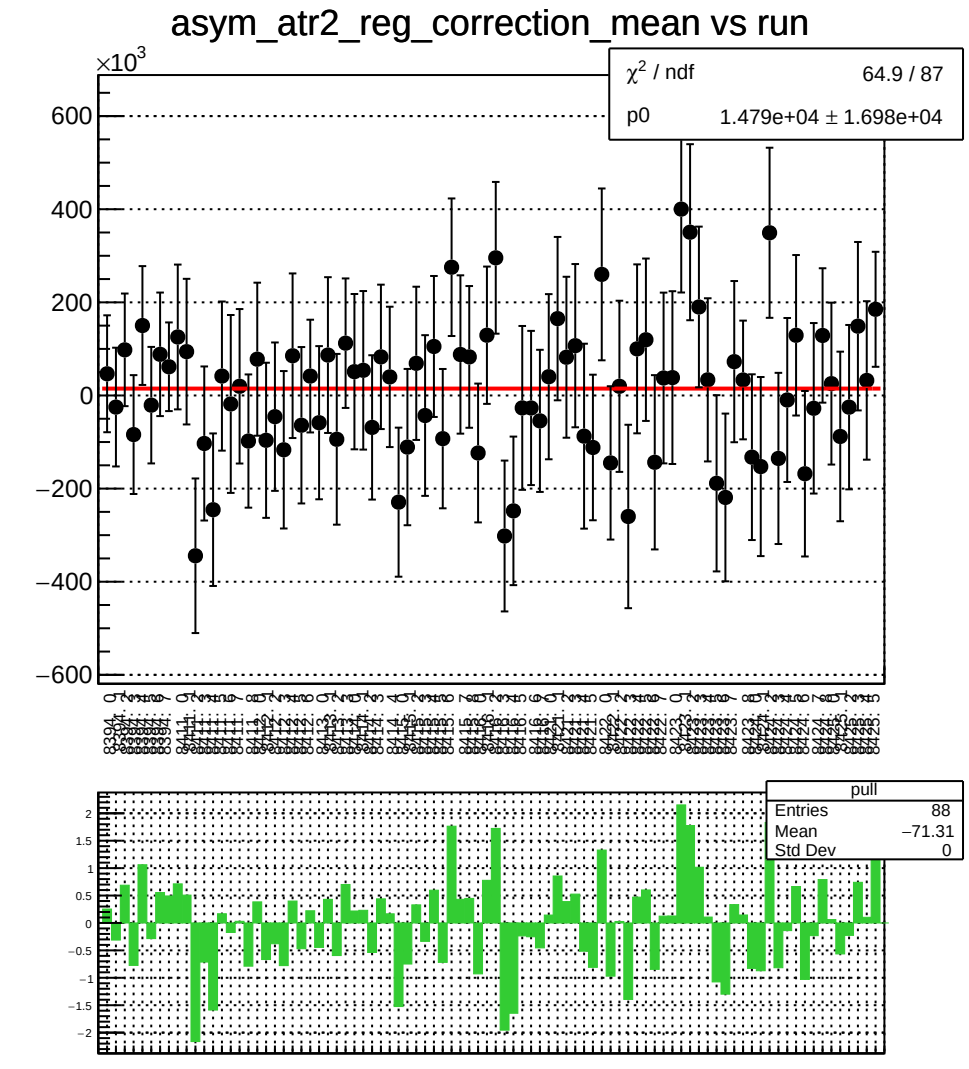

pull1D
Entries 88
Mean −0.08543
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

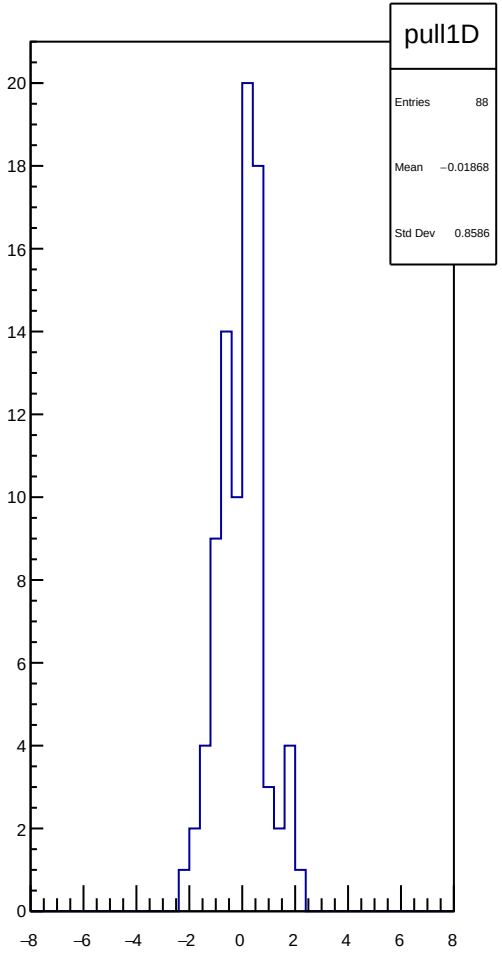

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.9e+05 / 87
p0 8.295e−11 ± 8.73e−14
1
0.8
0.6
0.4
0.2

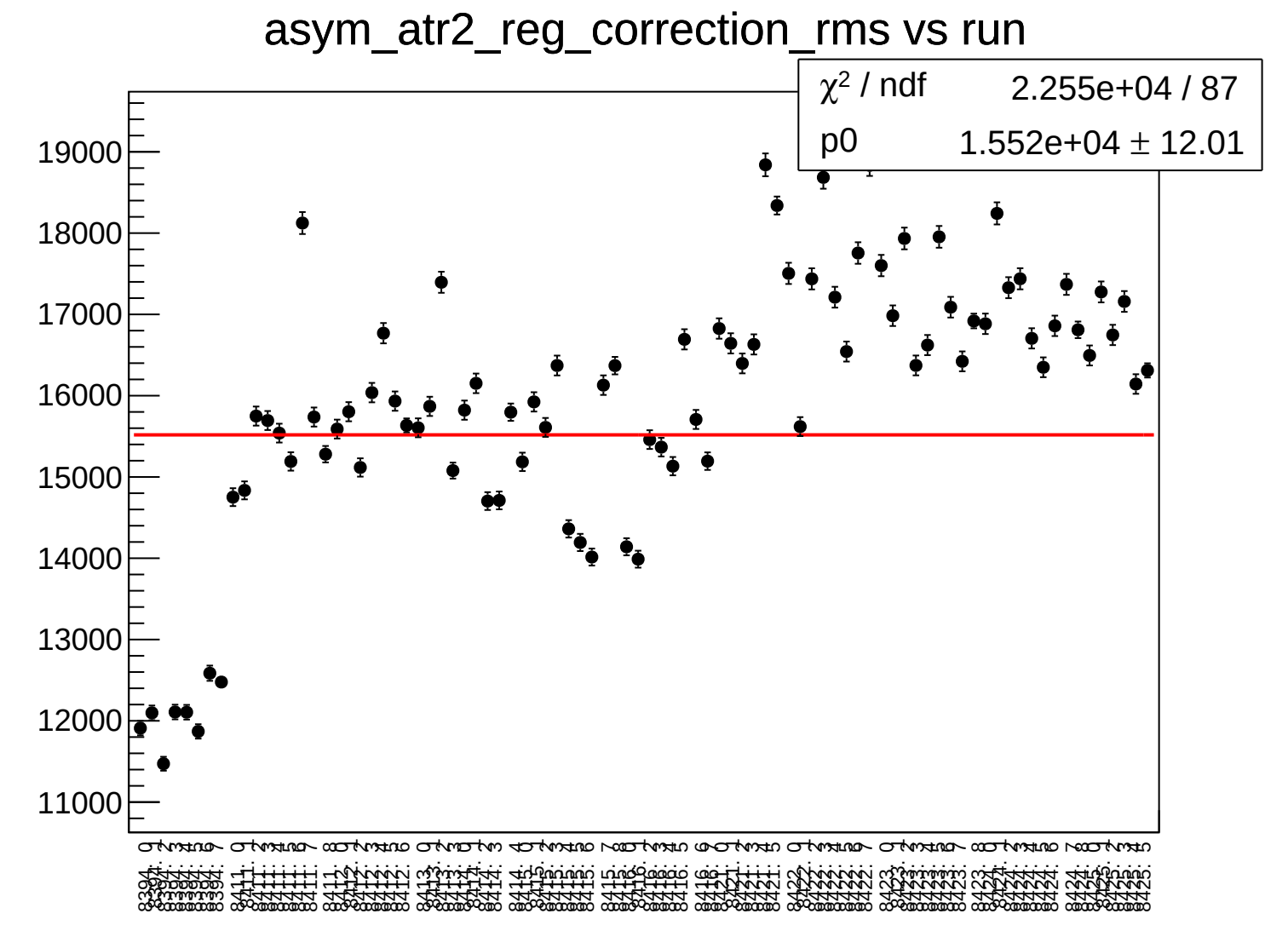

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 76.18 / 87
p0 −2041 ± 3038
100
50
0
−50
−100
pull
Entries 88
Mean −55.23
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

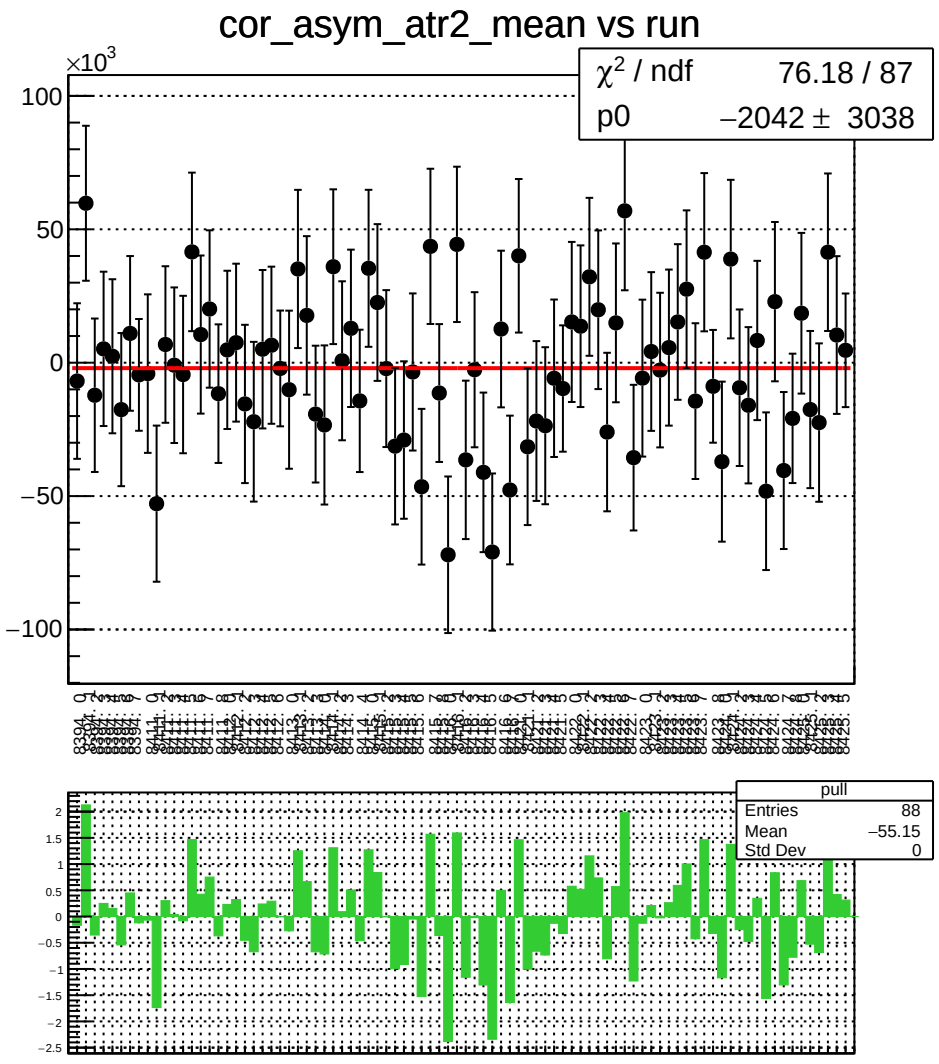

pull1D
Entries 88
Mean 0.008227
Std Dev 0.9304
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

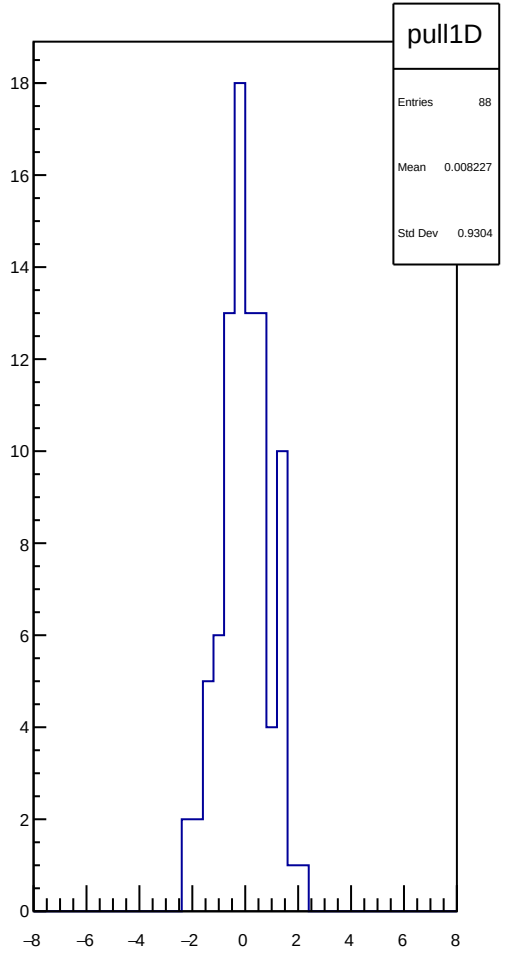

reg_asym_atr2_rms vs run
χ^2 / ndf 189.6 / 87
p0 2795 ± 2.148
2900
2850
2800
2750
2700

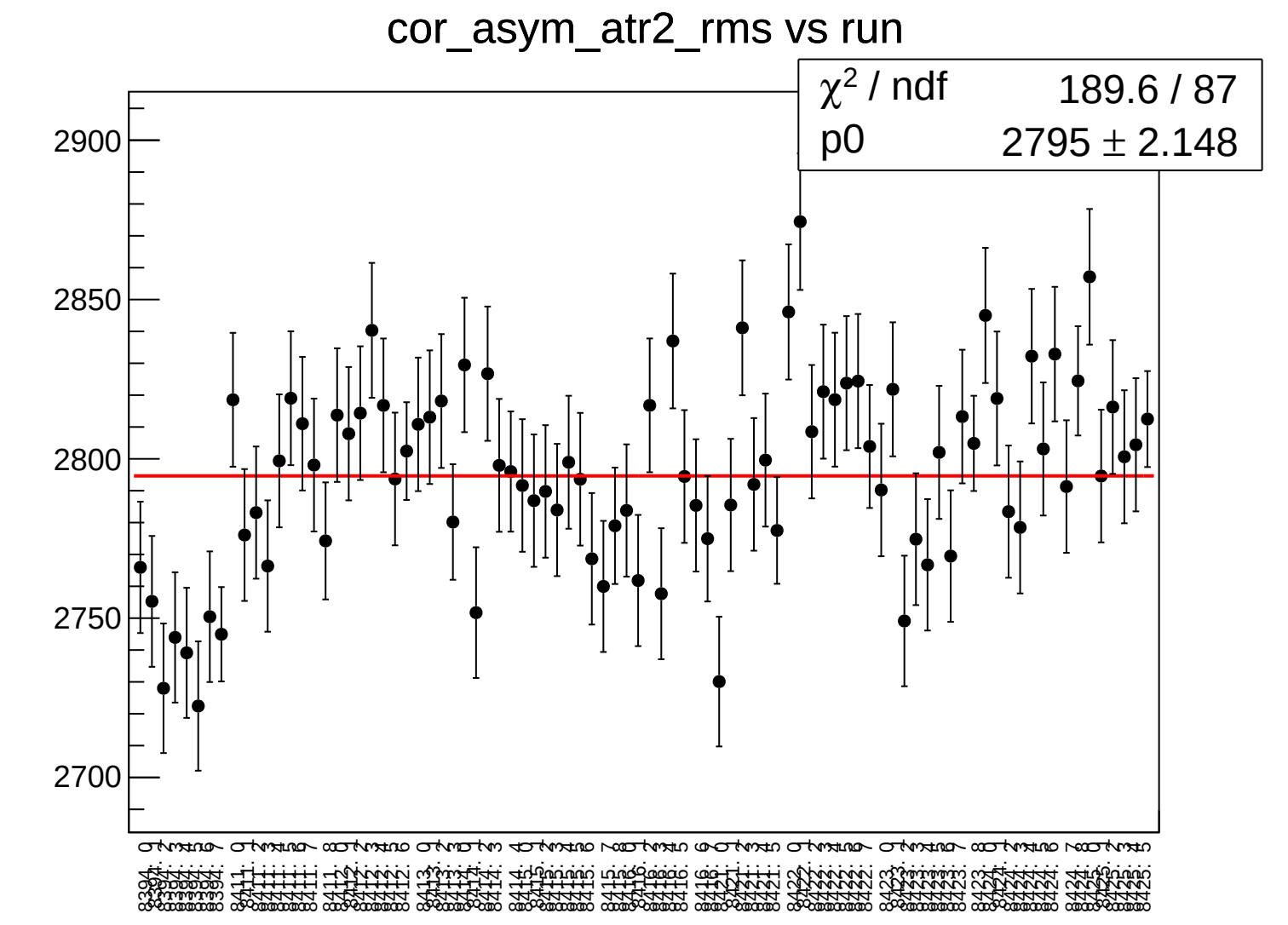

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 64.9 / 87
p0 1.479e+04 ± 1.698e+04
pull
Entries 88
Mean −71.31
Std Dev 0

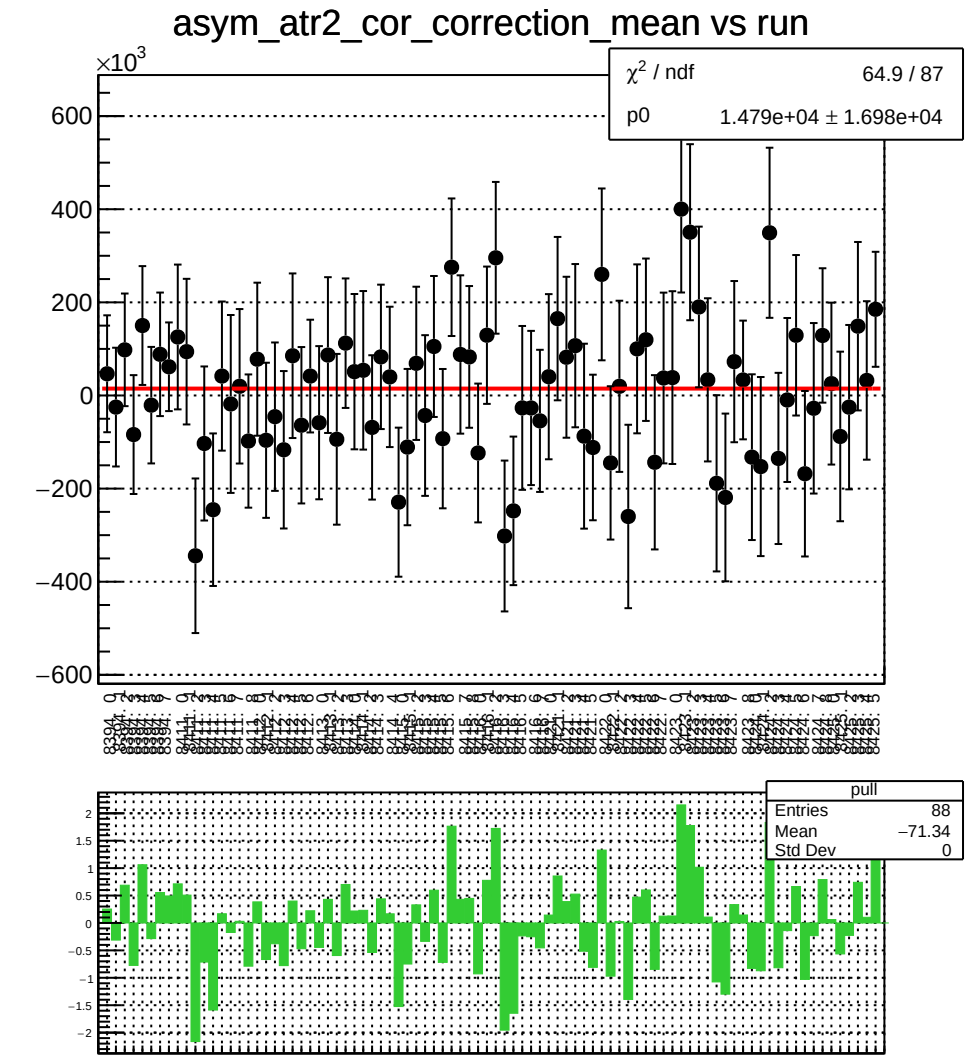

pull1D
Entries 88
Mean −0.01868
Std Dev 0.8586

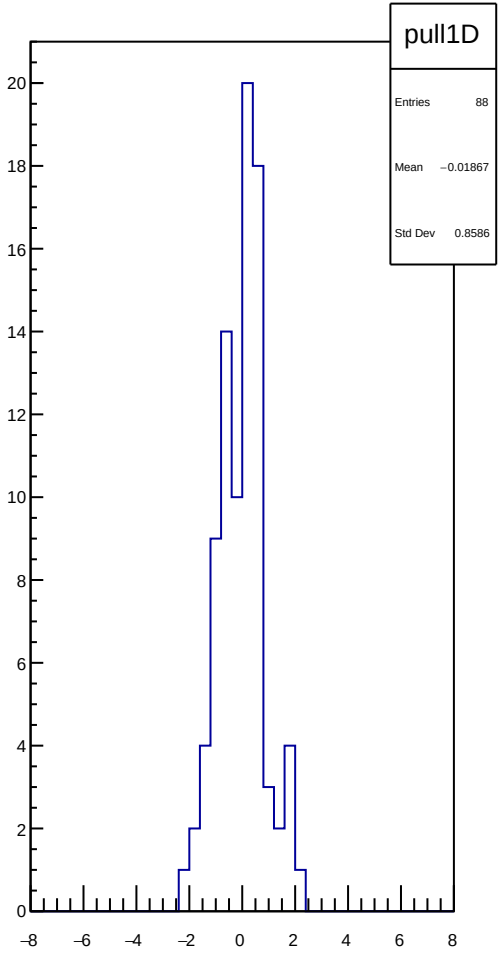

asym_atr2_reg_correction_rms vs run
χ² / ndf 2.255e+04 / 87
p0 1.552e+04 ± 12.01
19000
18000
17000
16000
15000
14000
13000
12000
11000

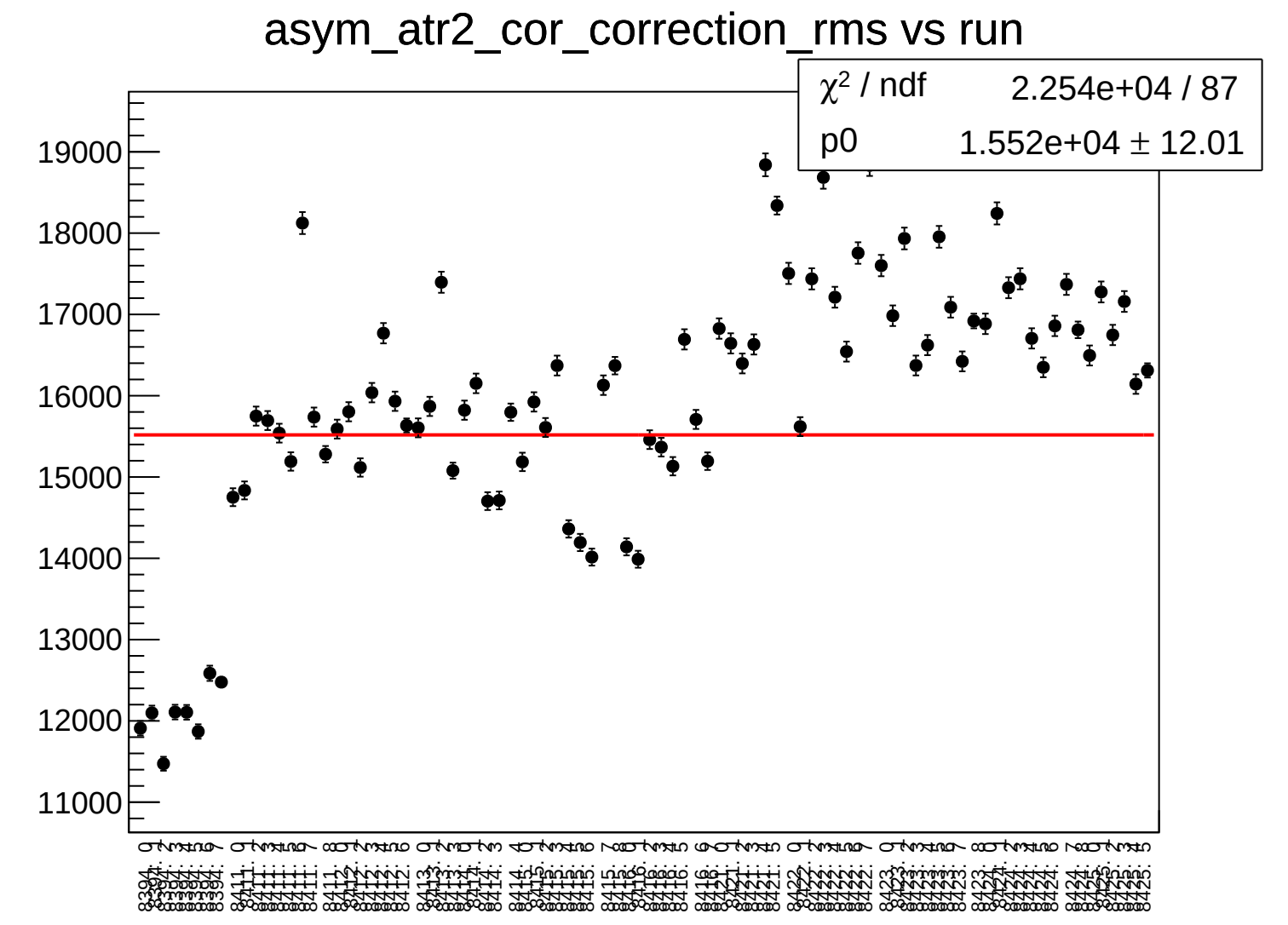

cor_asym_atr2_mean vs run
×10^3
χ^2 / ndf 76.18 / 87
p0 −2042 ± 3038
100
50
0
−50
−100
pull
Entries 88
Mean −55.15
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

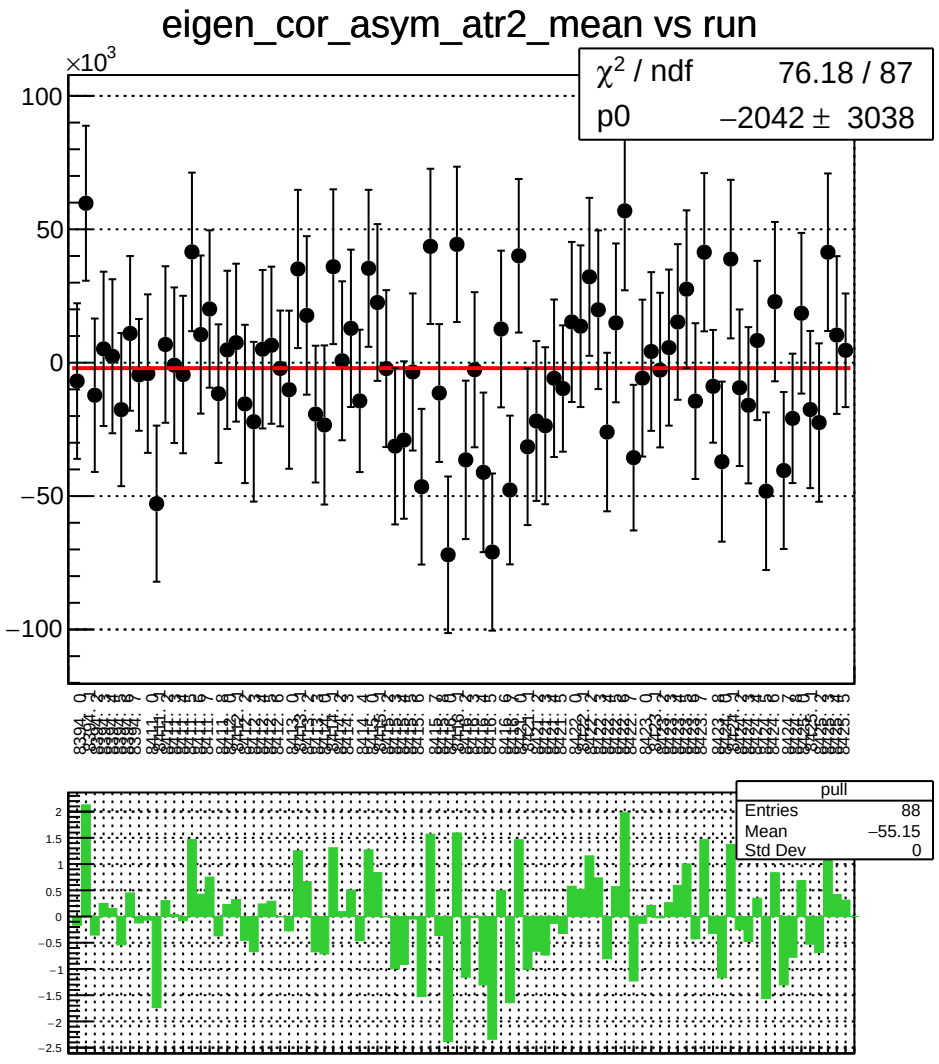

pull1D
Entries 88
Mean 0.008227
Std Dev 0.9304
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

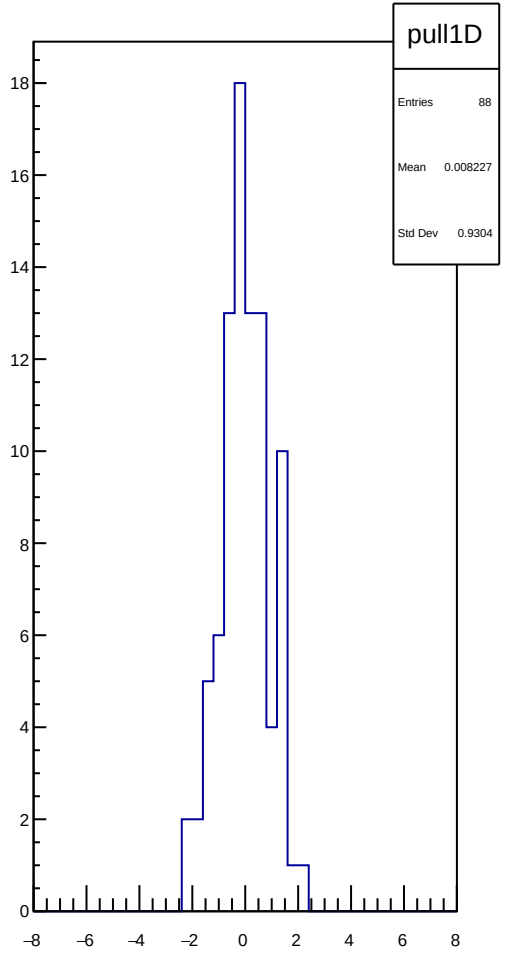

cor_asym_atr2_rms vs run
χ² / ndf 189.6 / 87
p0 2795 ± 2.148
2900
2850
2800
2750
2700

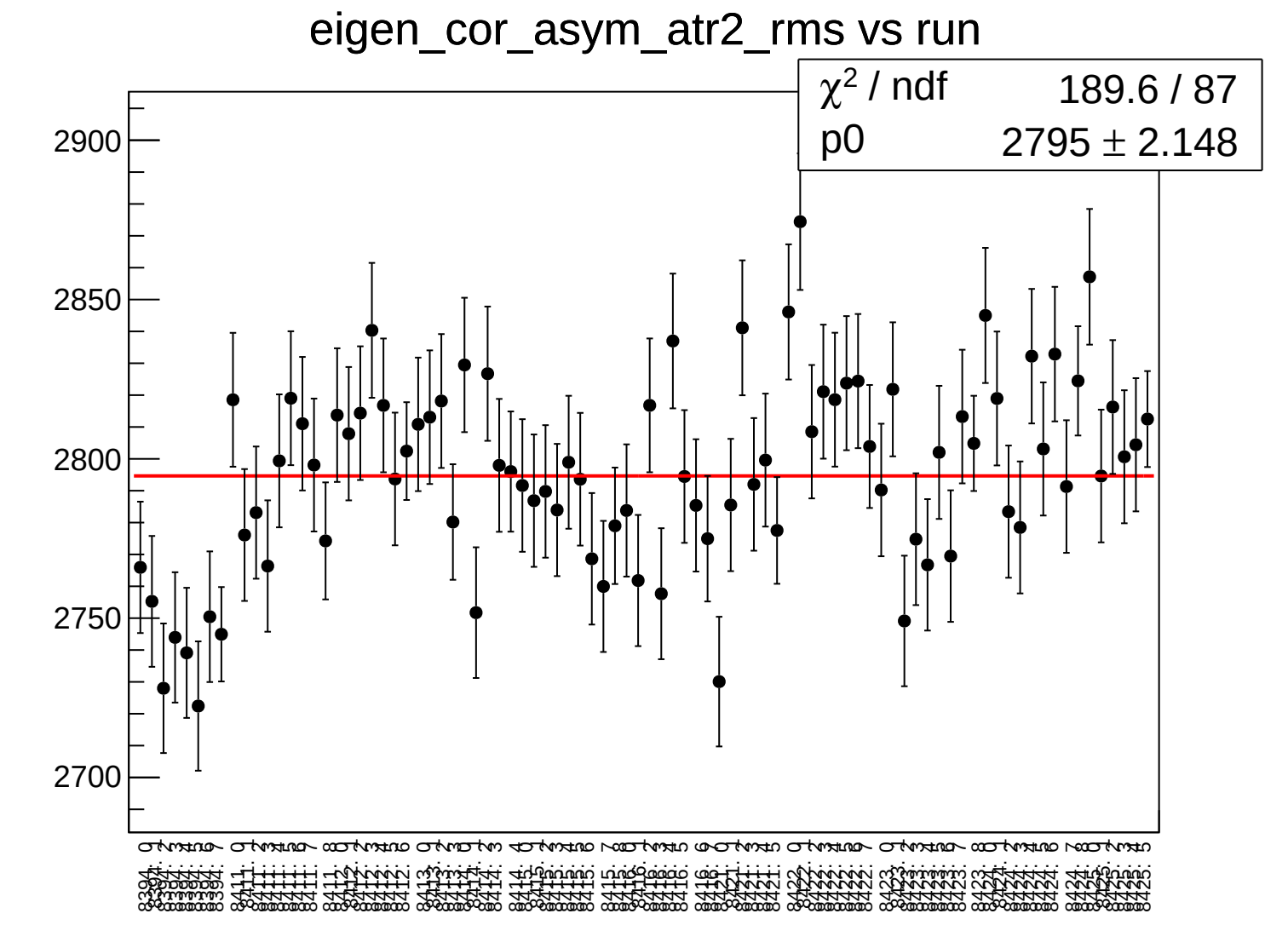

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 64.9 / 87
p0 1.479e+04 ± 1.698e+04
pull
Entries 88
Mean −71.34
Std Dev 0

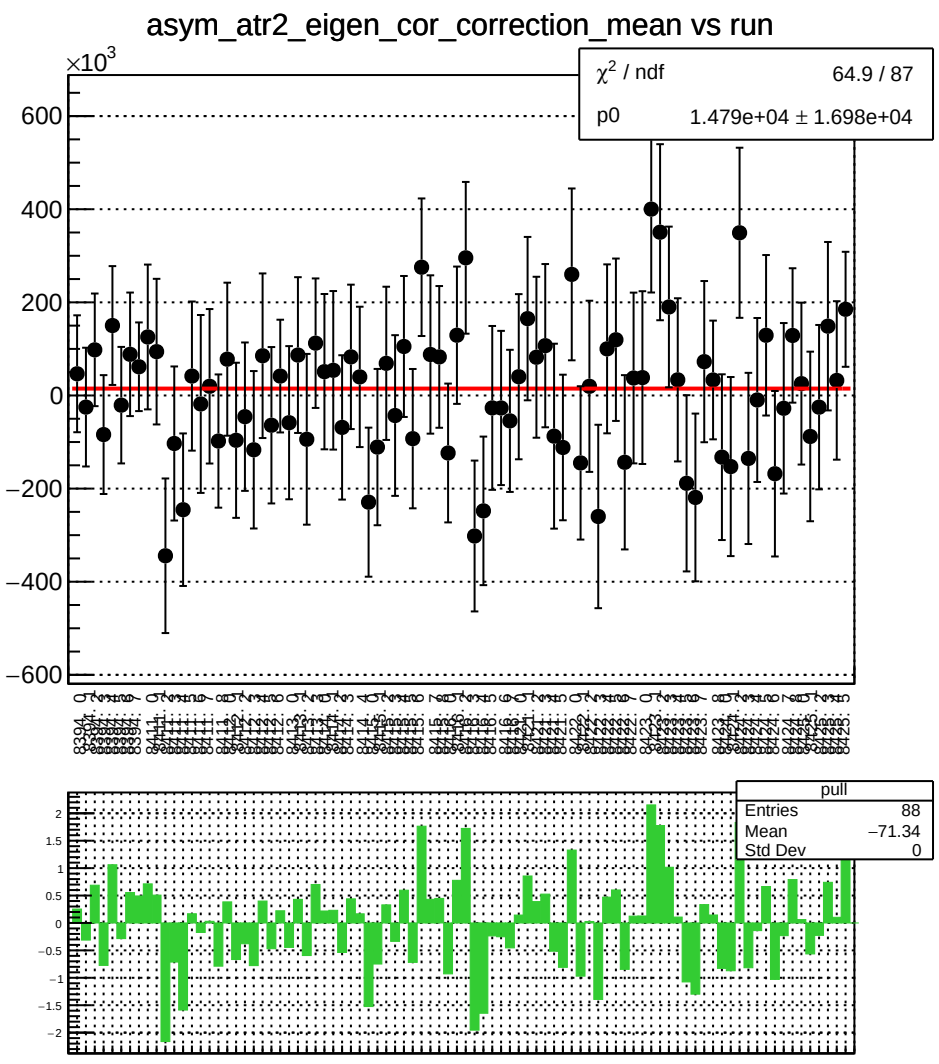

pull1D
Entries 88
Mean −0.01867
Std Dev 0.8586

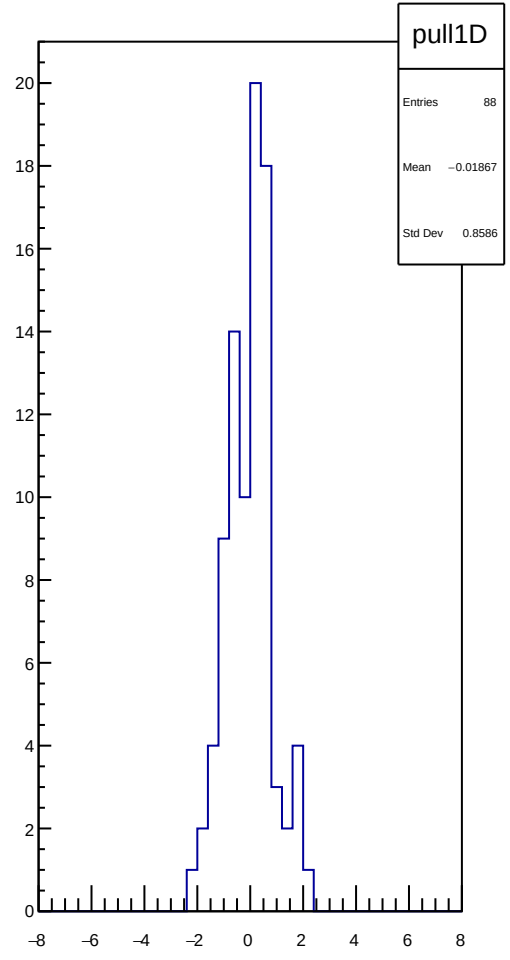

asym_atr2_cor_correction_rms vs run
χ² / ndf 2.254e+04 / 87
p0 1.552e+04 ± 12.01
19000
18000
17000
16000
15000
14000
13000
12000
11000

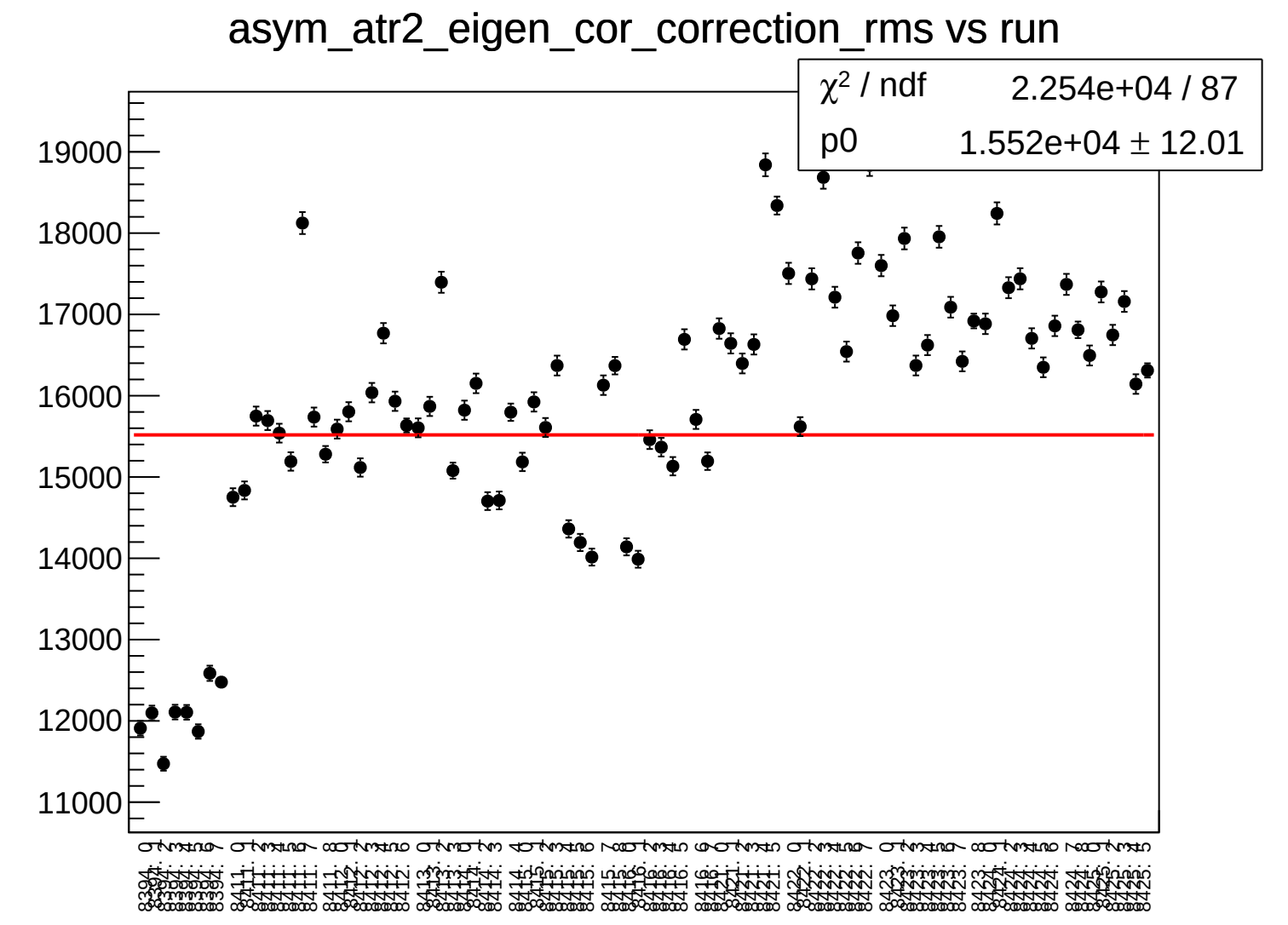

eigen_cor_asym_atr2_mean vs run
×10^3
χ² / ndf 76.18 / 87
p0 −2042 ± 3038
100
50
0
−50
−100
pull
Entries 88
Mean −55.15
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

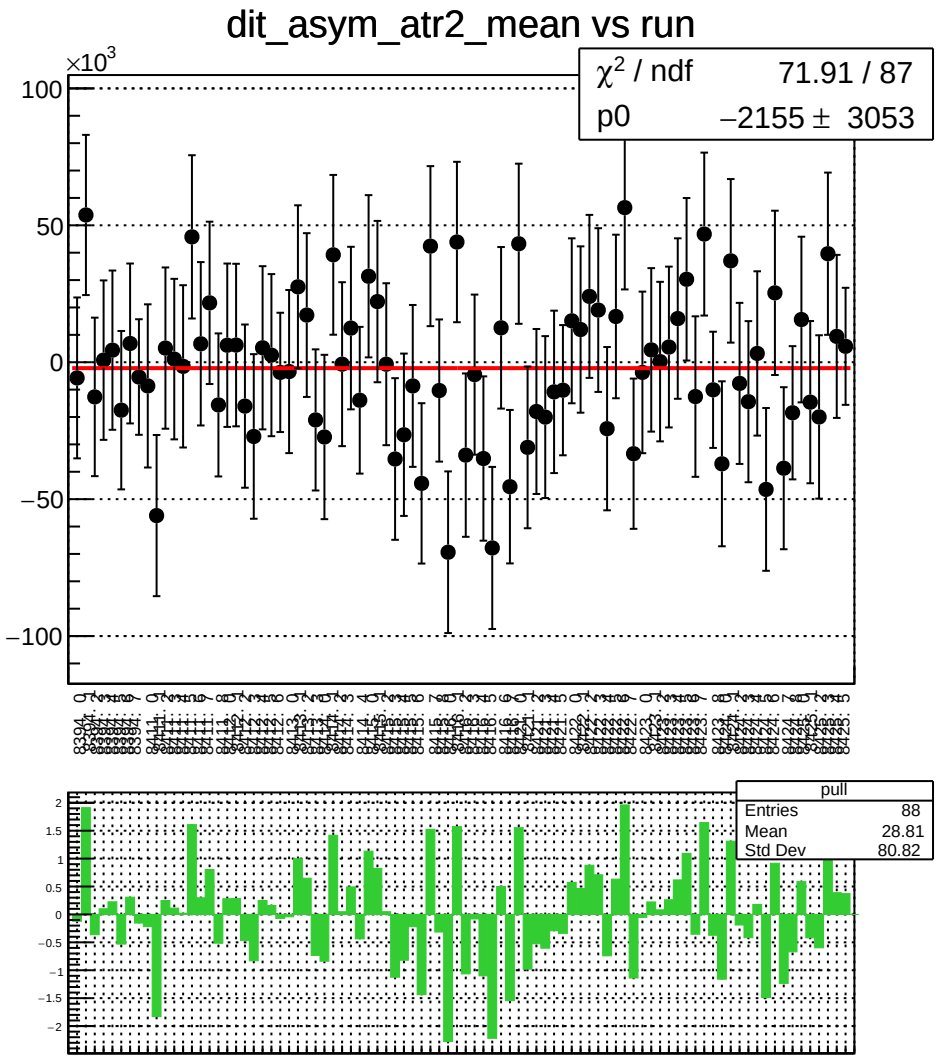

pull1D
Entries 88
Mean 0.008227
Std Dev 0.9304
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

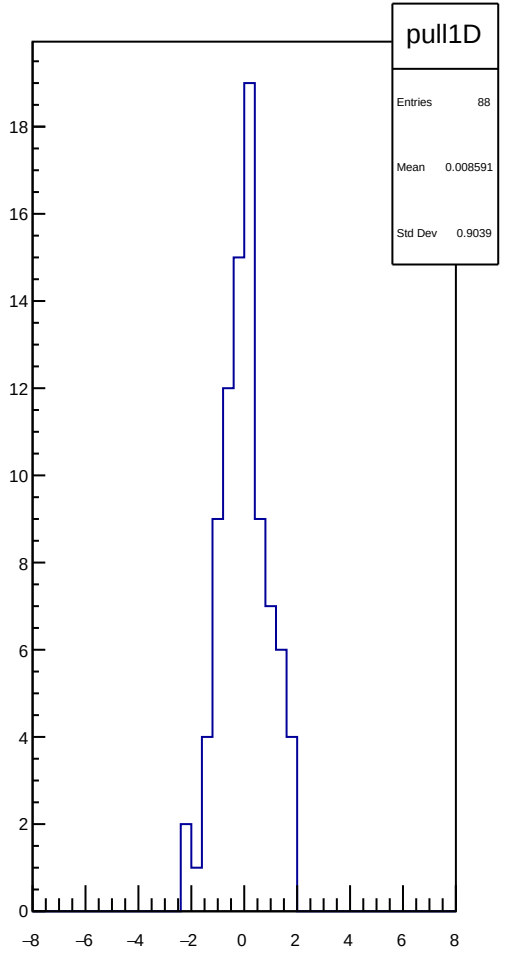

eigen_cor_asym_atr2_rms vs run
χ² / ndf 189.6 / 87
p0 2795 ± 2.148
2900
2850
2800
2750
2700

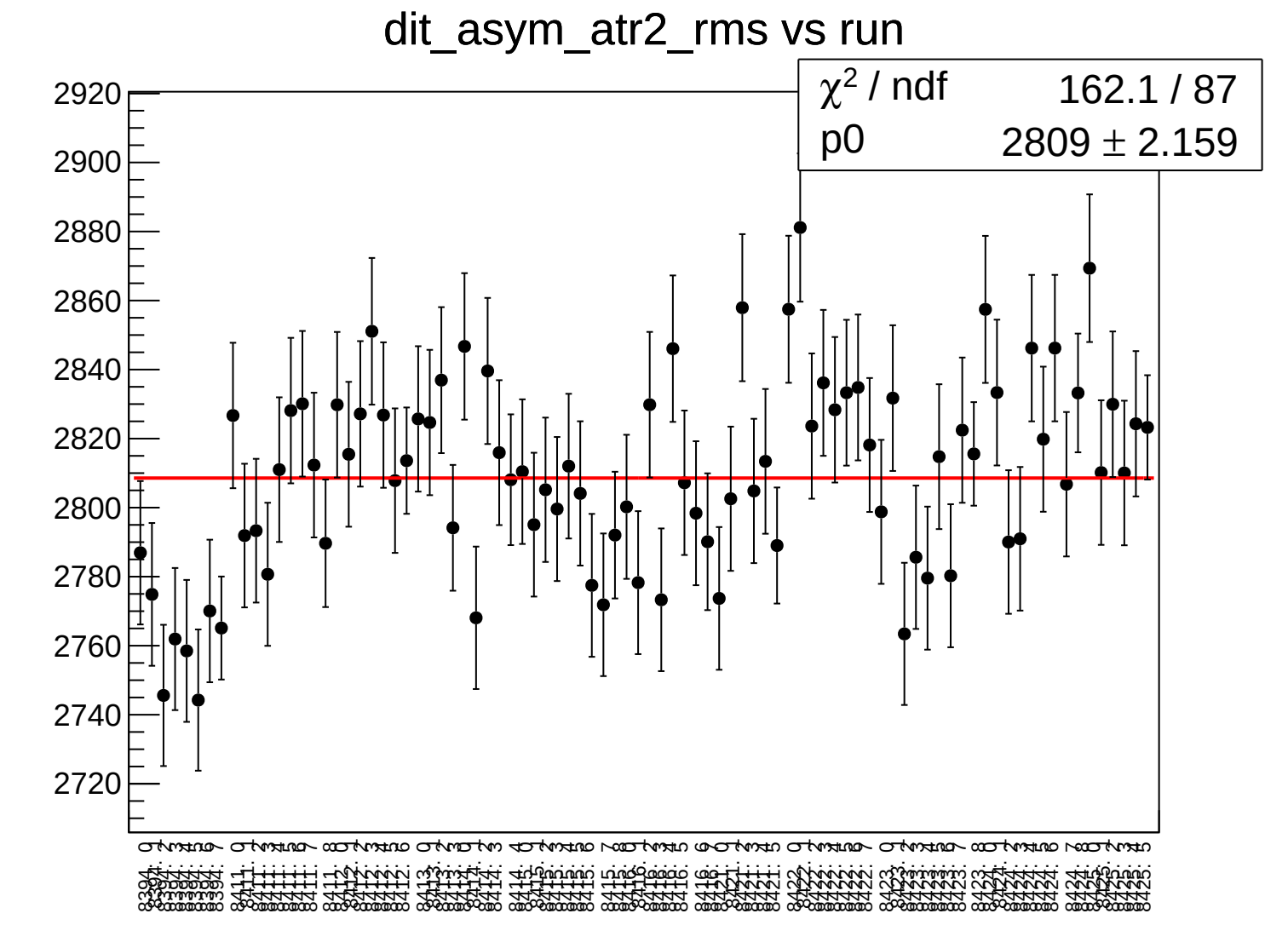

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 64.9 / 87
p0 1.479e+04 ± 1.698e+04
pull
Entries 88
Mean −71.34
Std Dev 0

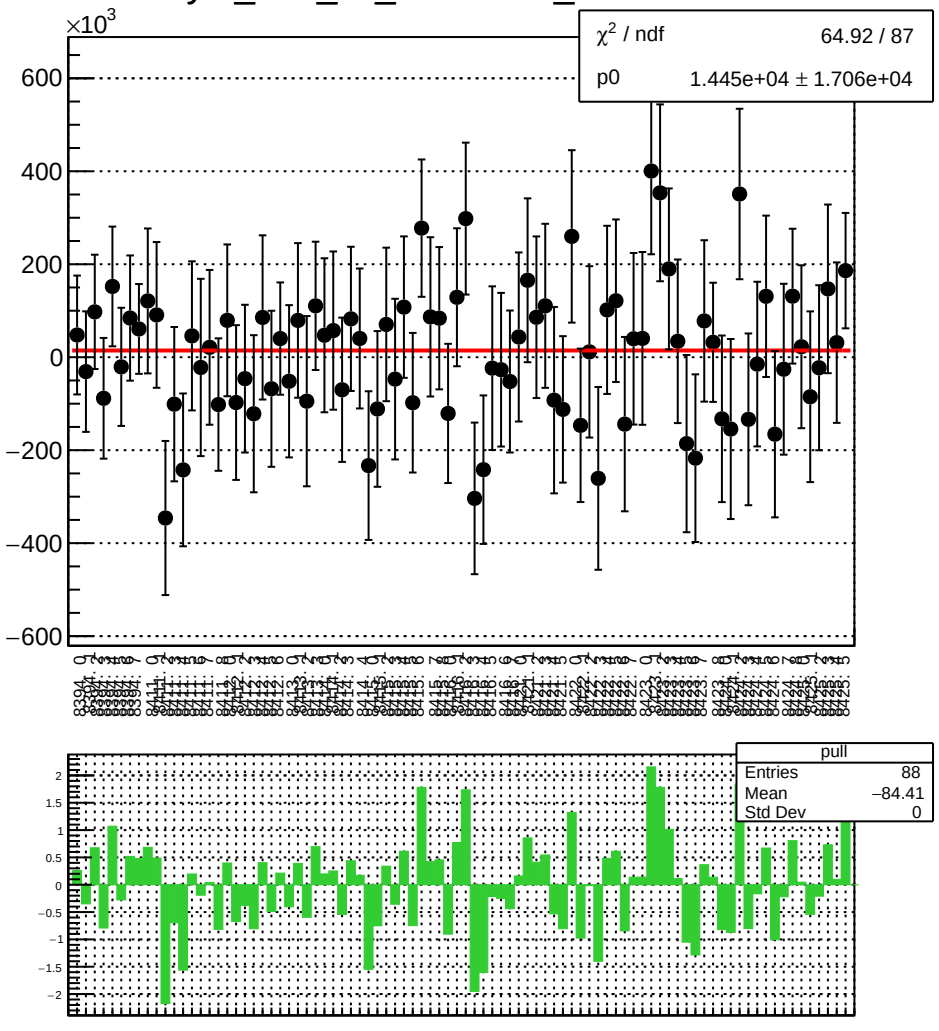

pull1D
Entries 88
Mean −0.01867
Std Dev 0.8586

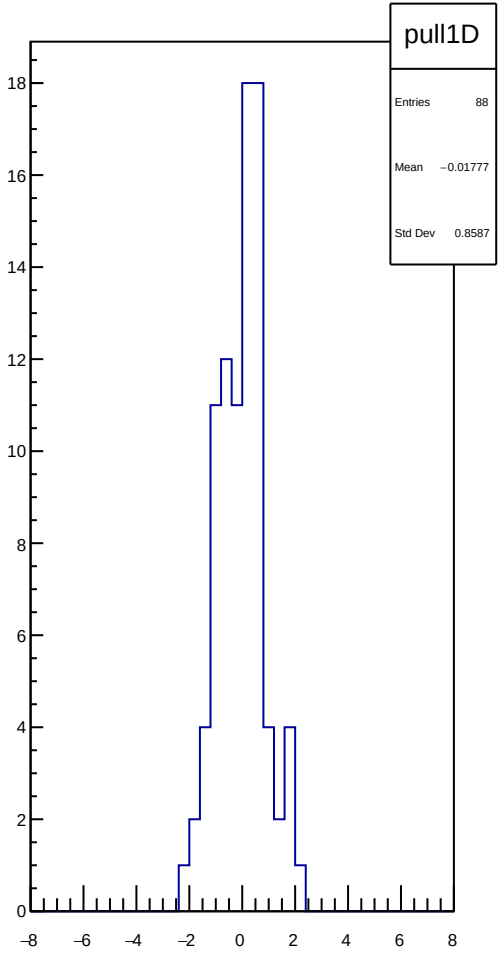

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 2.254e+04 / 87
p0 1.552e+04 ± 12.01
19000
18000
17000
16000
15000
14000
13000
12000
11000

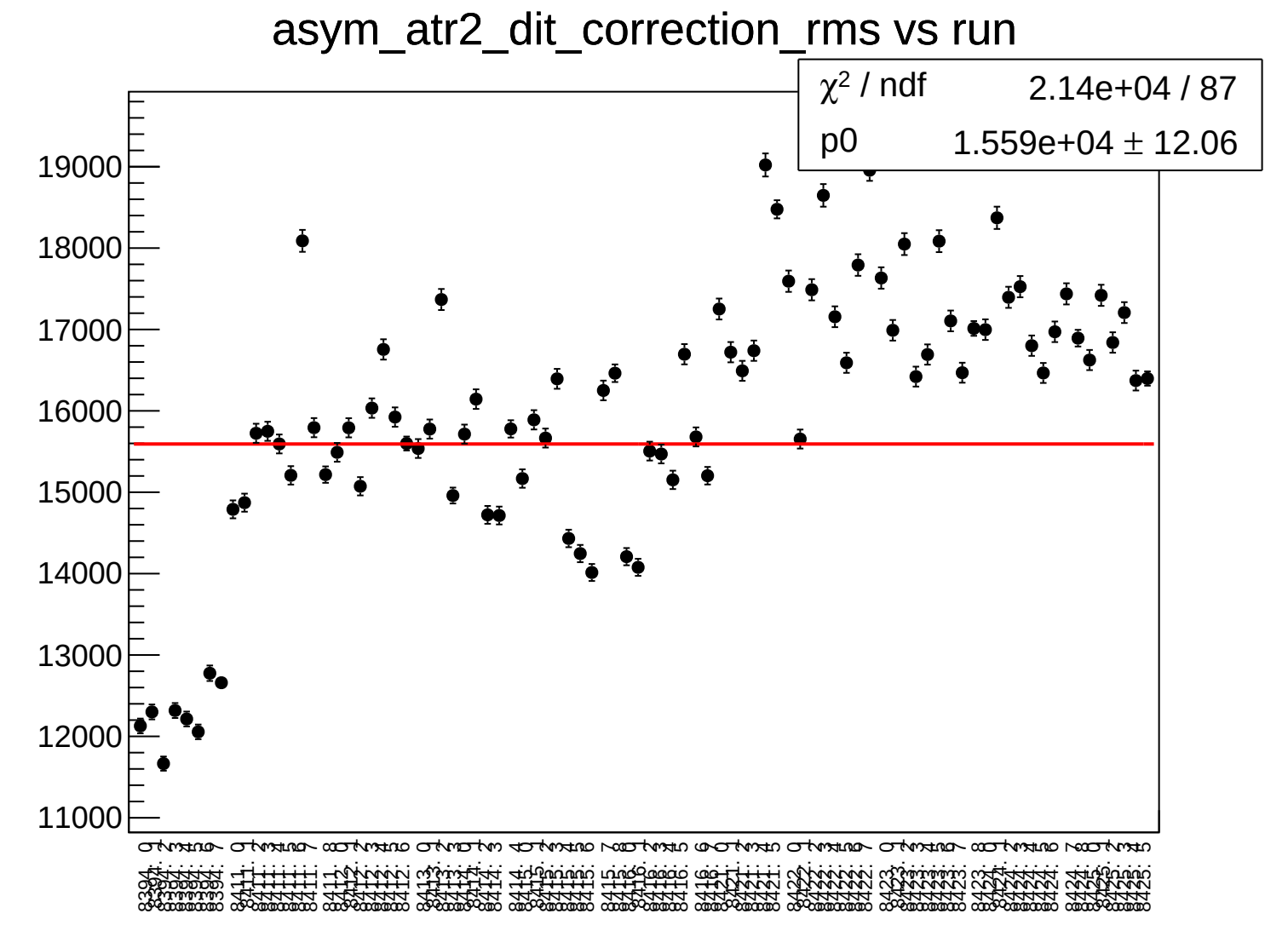

dit_asym_atr2_mean vs run
×10^3
χ² / ndf 71.91 / 87
p0 −2155 ± 3053
100
50
0
−50
−100
pull
Entries 88
Mean 28.81
Std Dev 80.82
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

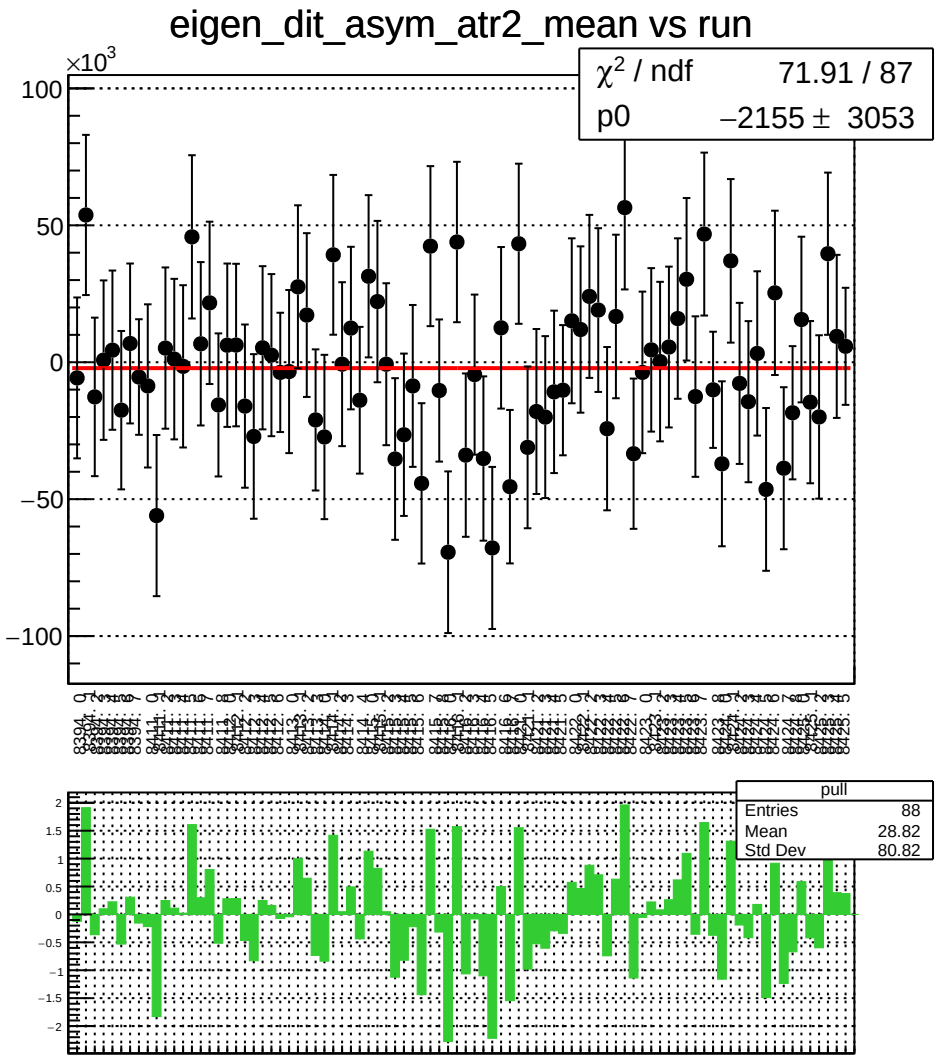

pull1D
Entries 88
Mean 0.008591
Std Dev 0.9039
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

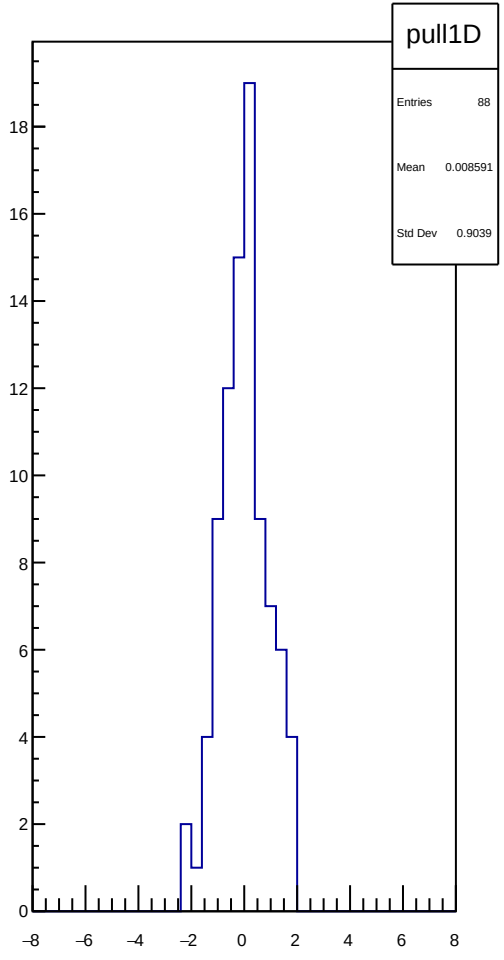

dit_asym_atr2_rms vs run
χ² / ndf 162.1 / 87
p0 2809 ± 2.159
2920
2900
2880
2860
2840
2820
2800
2780
2760
2740
2720

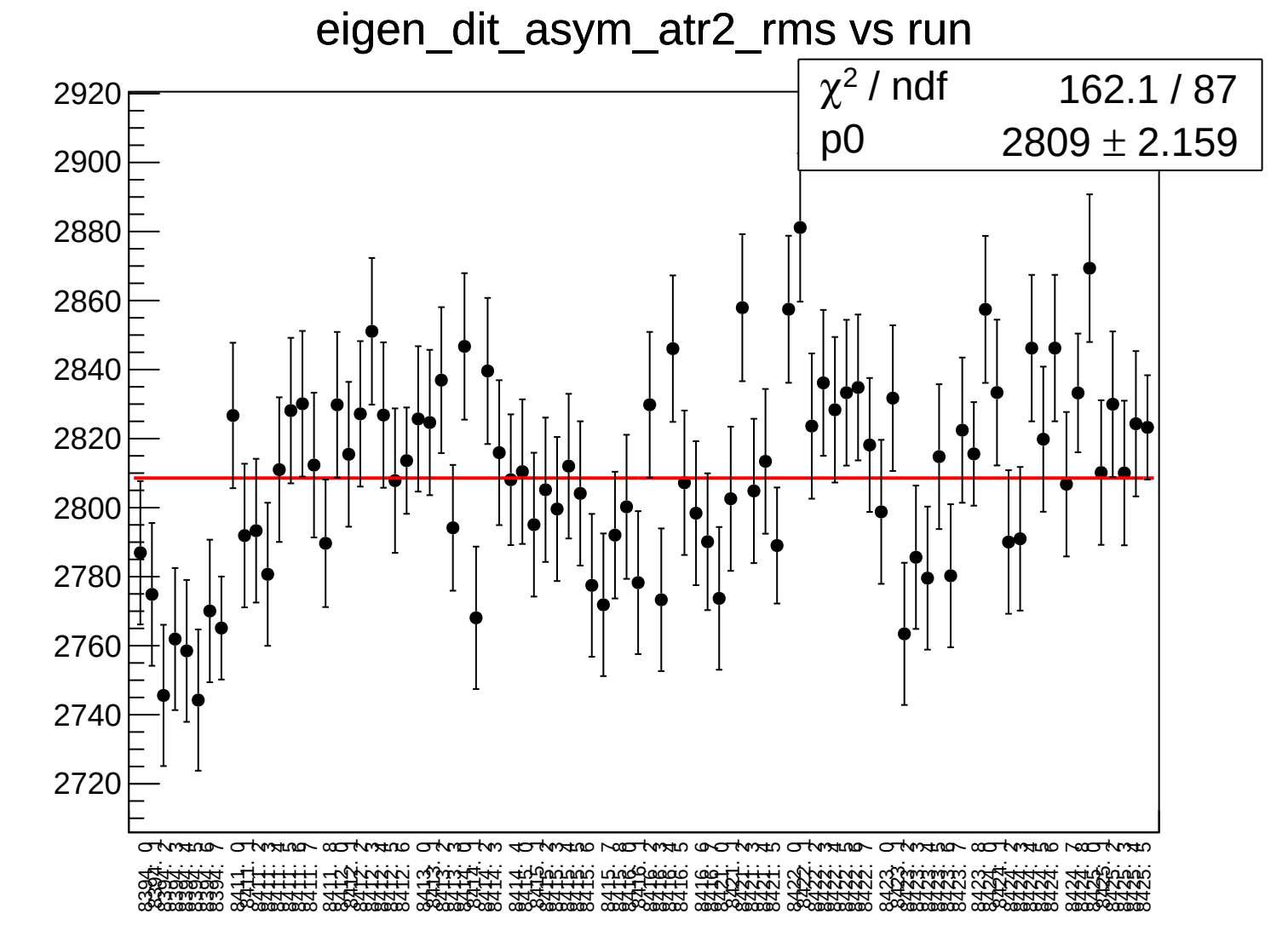

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 64.92 / 87
p0 1.445e+04 ± 1.706e+04
pull
Entries 88
Mean −84.41
Std Dev 0

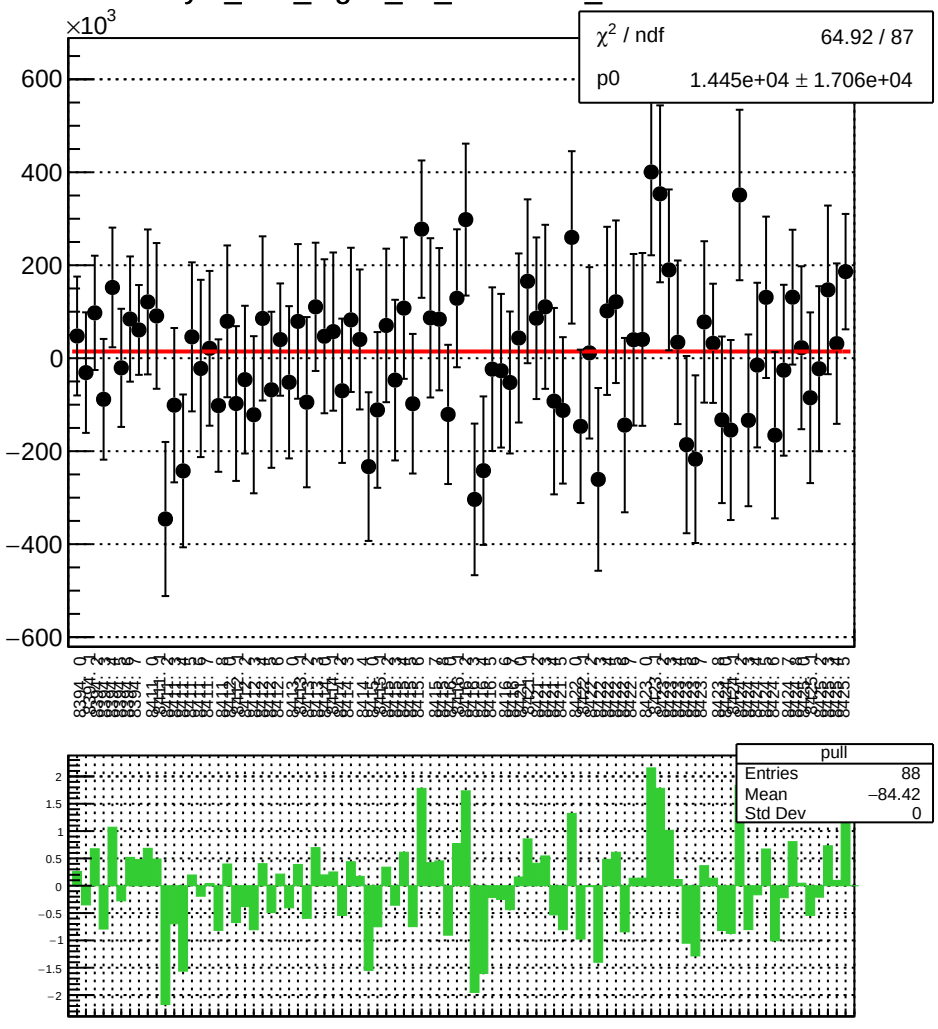

pull1D
Entries 88
Mean −0.01777
Std Dev 0.8587

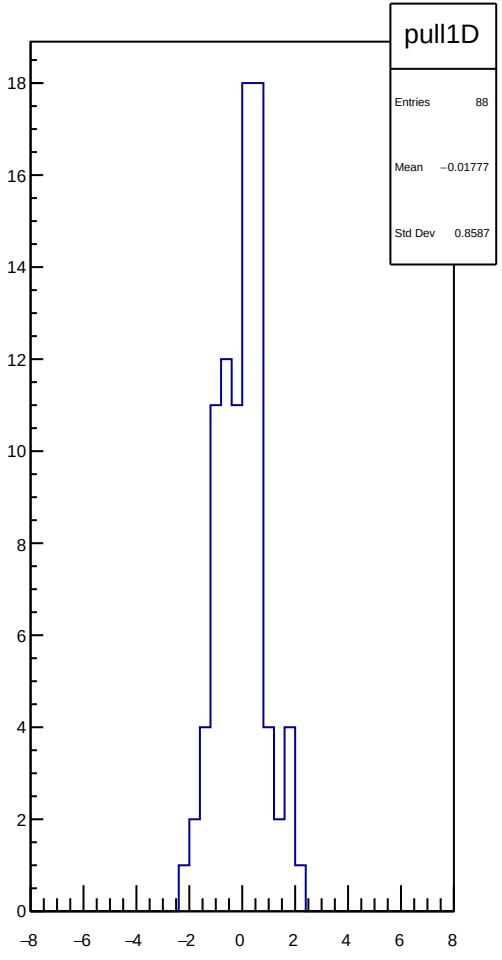

asym_atr2_dit_correction_rms vs run
χ² / ndf 2.14e+04 / 87
p0 1.559e+04 ± 12.06
19000
18000
17000
16000
15000
14000
13000
12000
11000

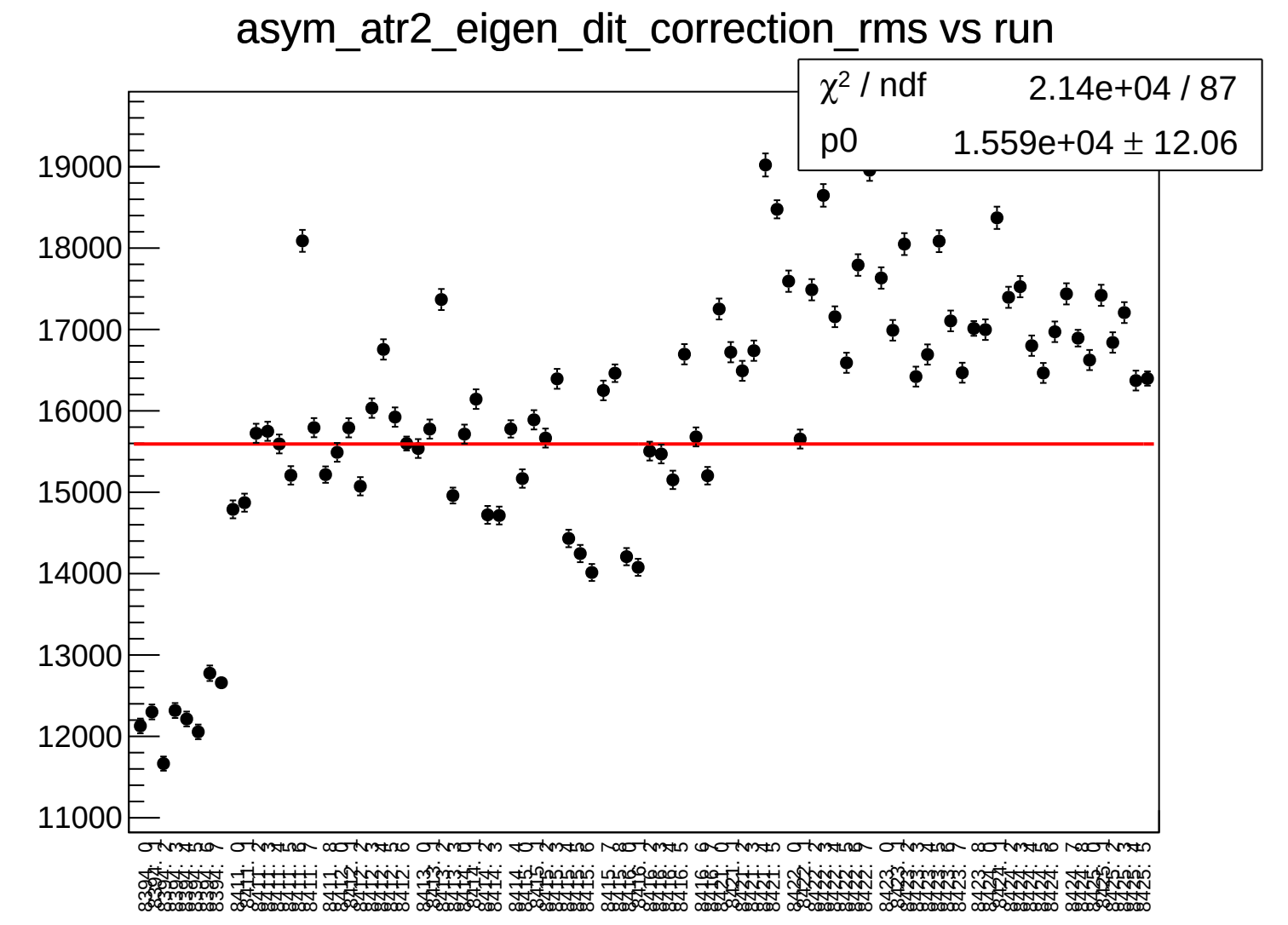

eigen_dit_asym_atr2_mean vs run
×10^3
χ² / ndf 71.91 / 87
p0 −2155 ± 3053
pull
Entries 88
Mean 28.82
Std Dev 80.82

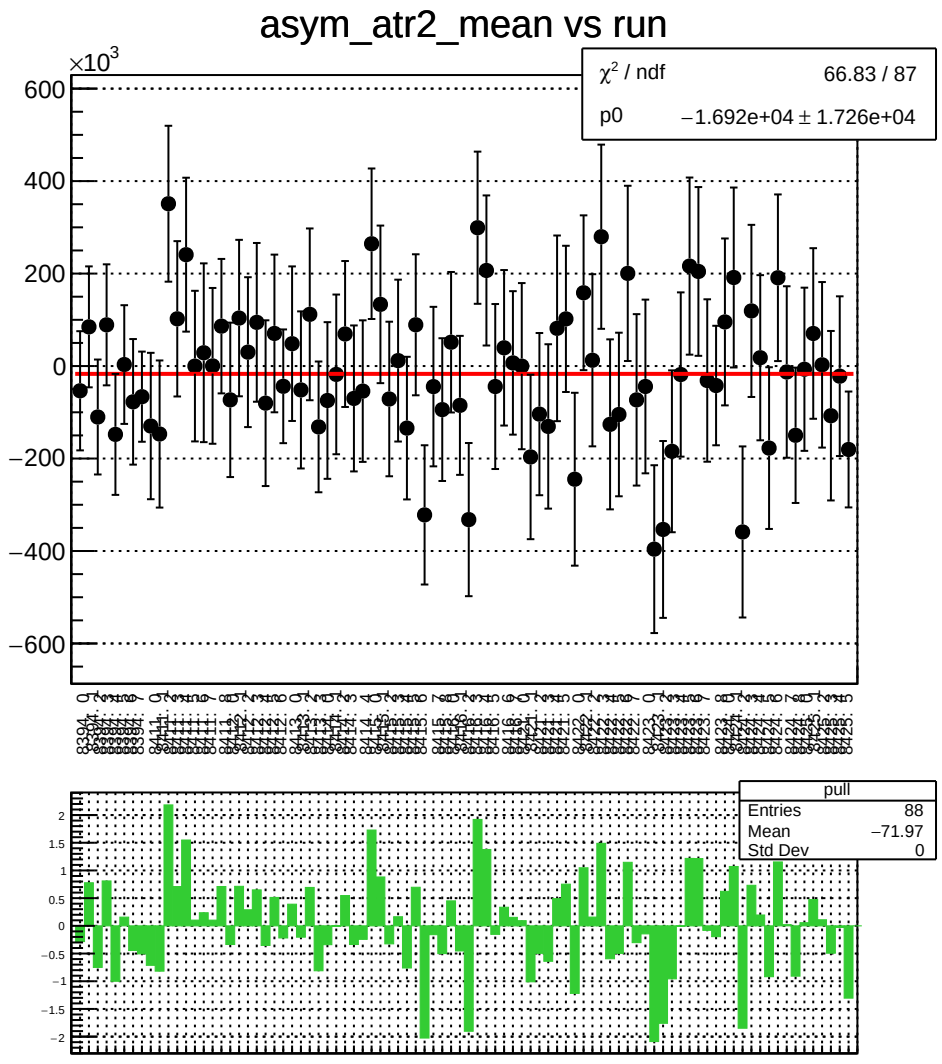

pull1D
Entries 88
Mean 0.008591
Std Dev 0.9039

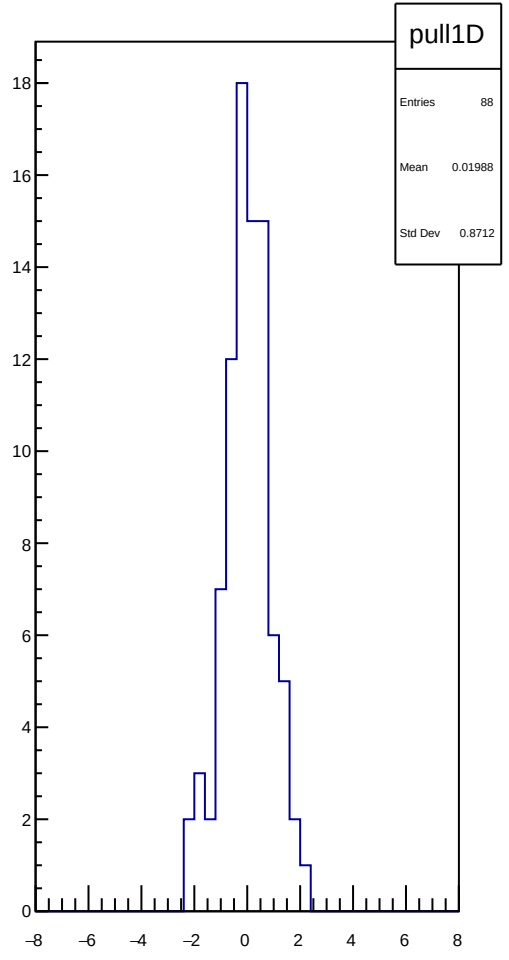

eigen_dit_asym_atr2_rms vs run
χ^2 / ndf 162.1 / 87
p0 2809 ± 2.159
2920
2900
2880
2860
2840
2820
2800
2780
2760
2740
2720

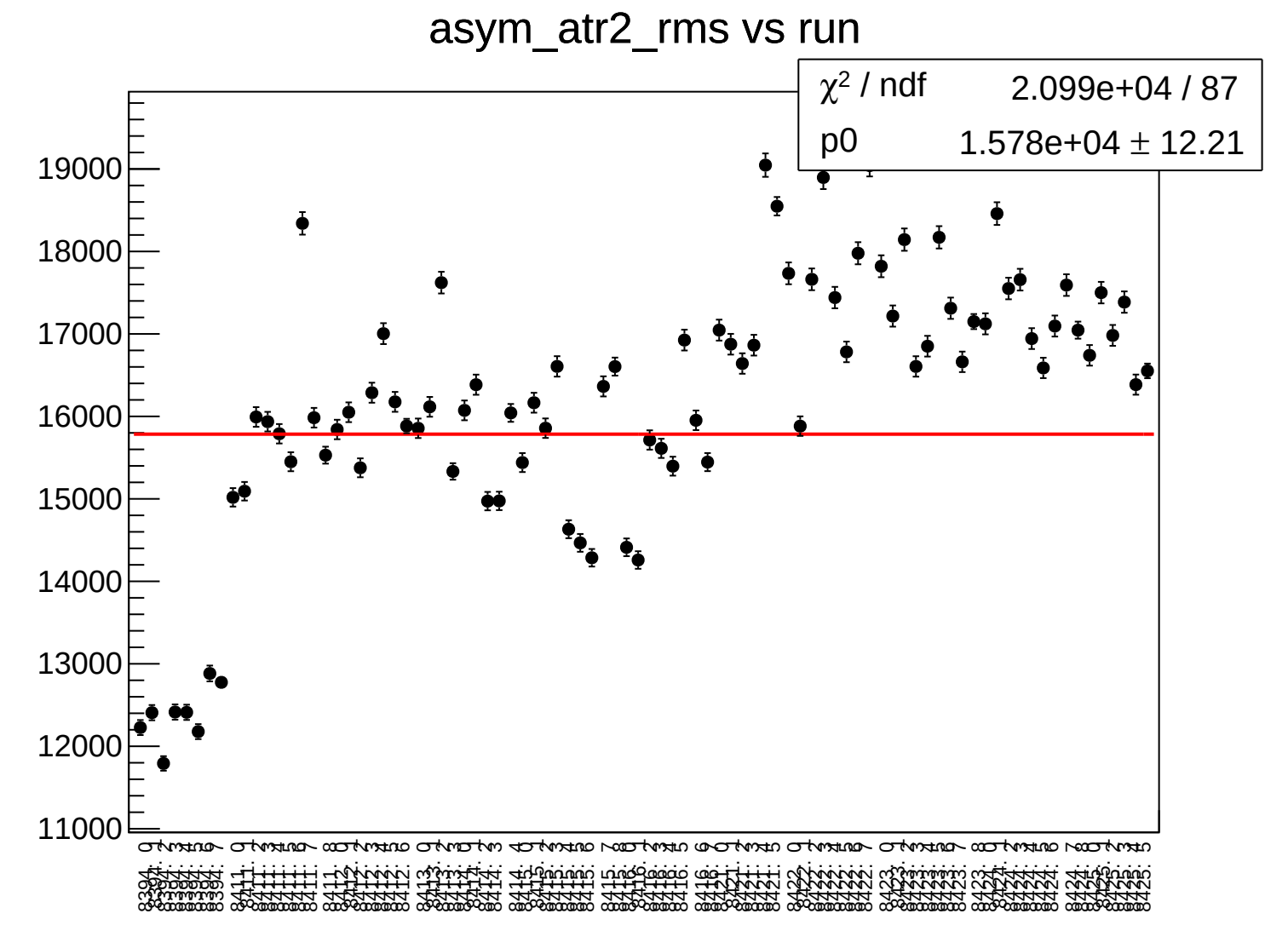

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 64.92 / 87
p0 1.445e+04 ± 1.706e+04
pull
Entries 88
Mean −84.42
Std Dev 0

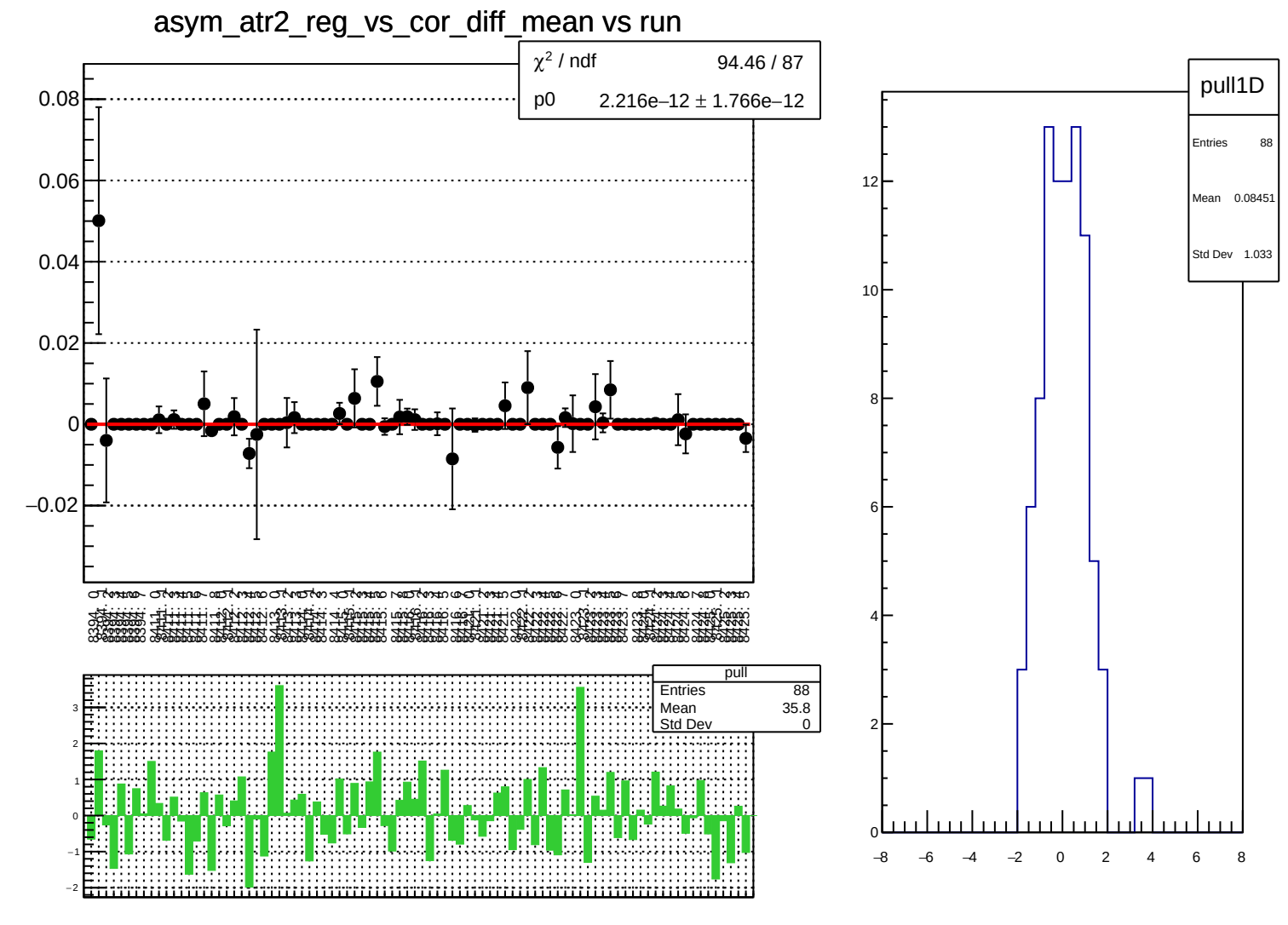

pull1D
Entries 88
Mean −0.01777
Std Dev 0.8587

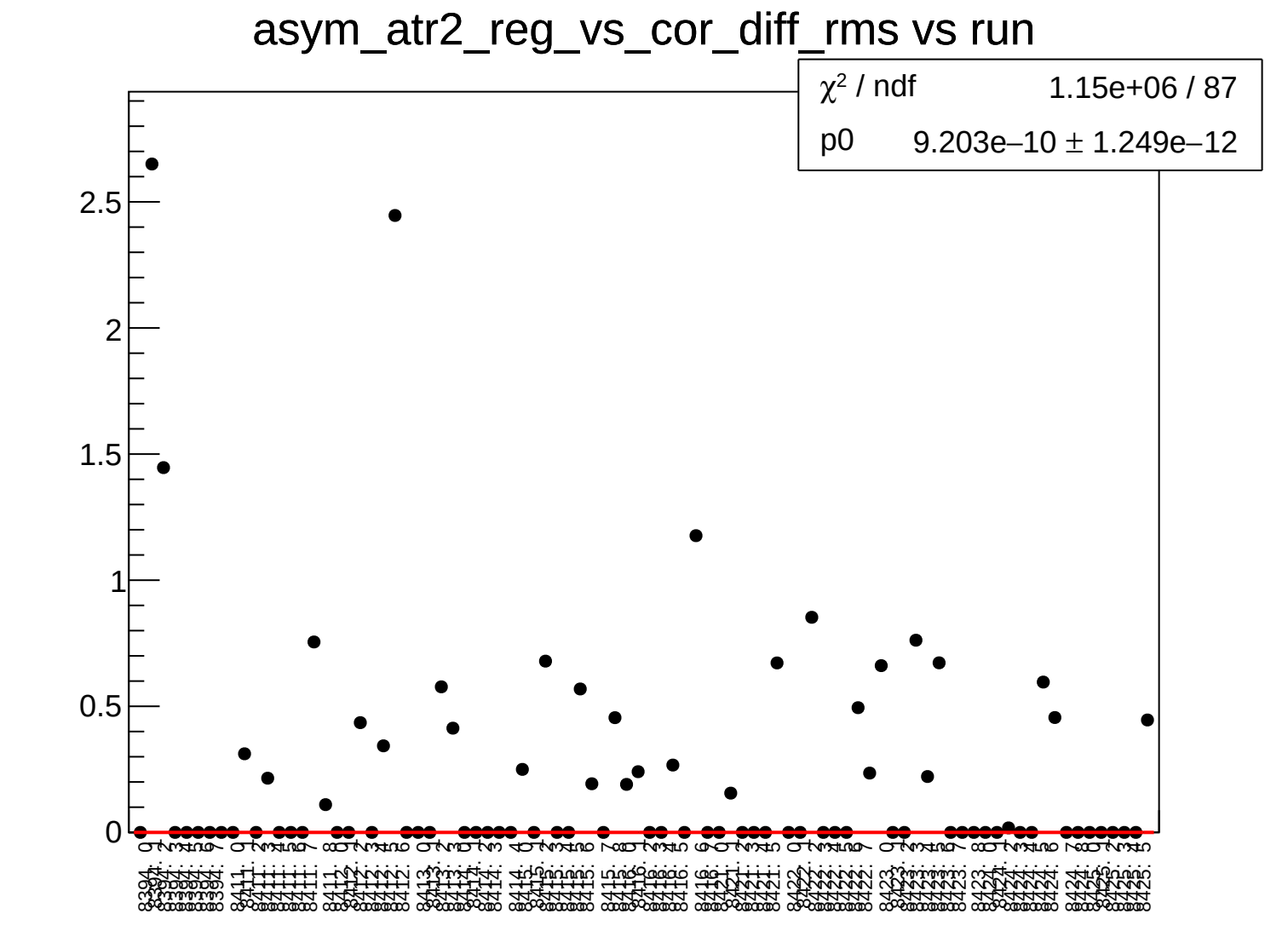

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 2.14e+04 / 87
p0 1.559e+04 ± 12.06
19000
18000
17000
16000
15000
14000
13000
12000
11000

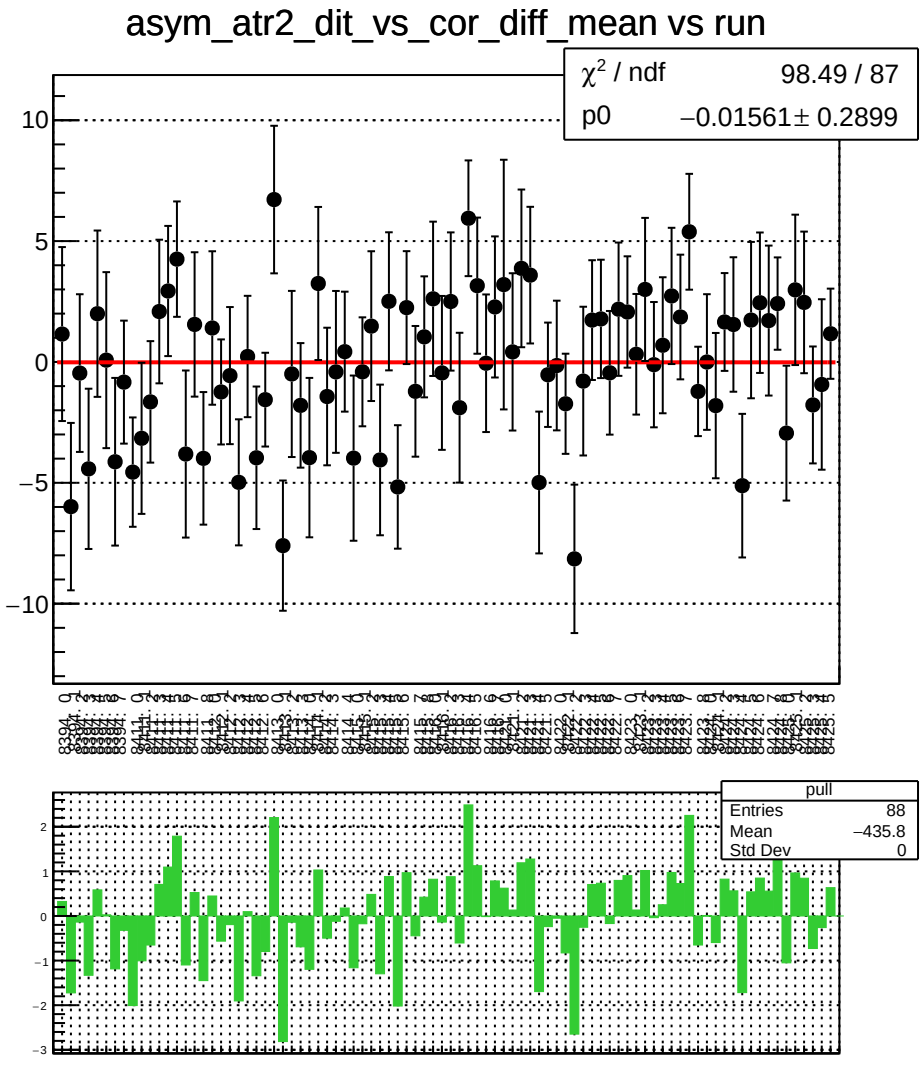

asym_atr2_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 66.83 / 87
p0 −1.692e+04 ± 1.726e+04
pull
Entries 88
Mean −71.97
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

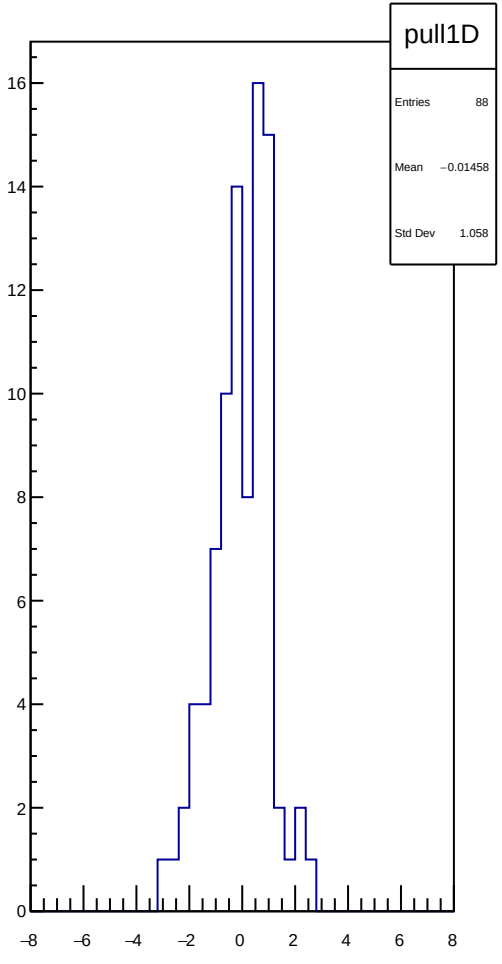

pull1D
Entries 88
Mean 0.01988
Std Dev 0.8712
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

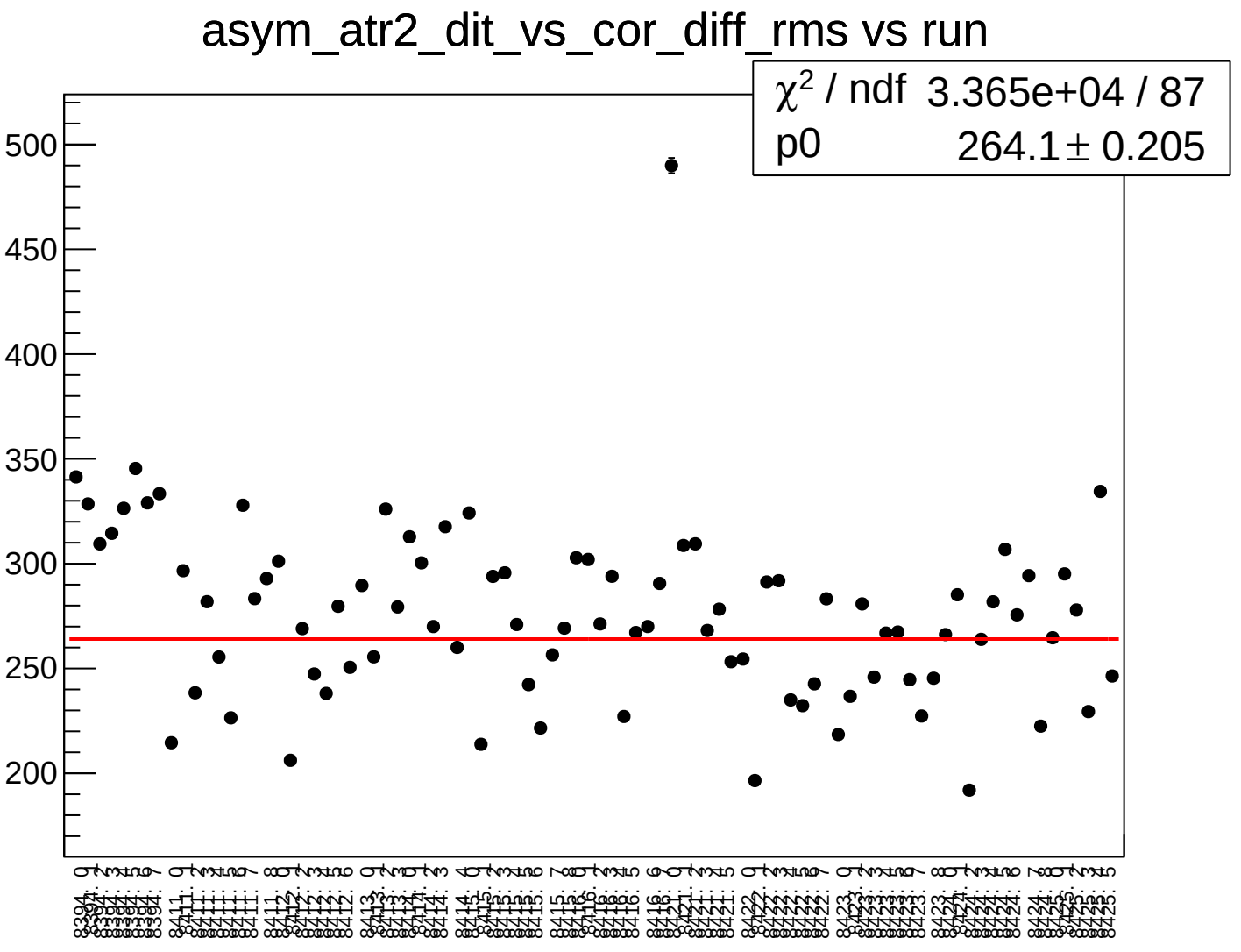

asym_atr2_rms vs run
χ² / ndf 2.099e+04 / 87
p0 1.578e+04 ± 12.21
19000
18000
17000
16000
15000
14000
13000
12000
11000

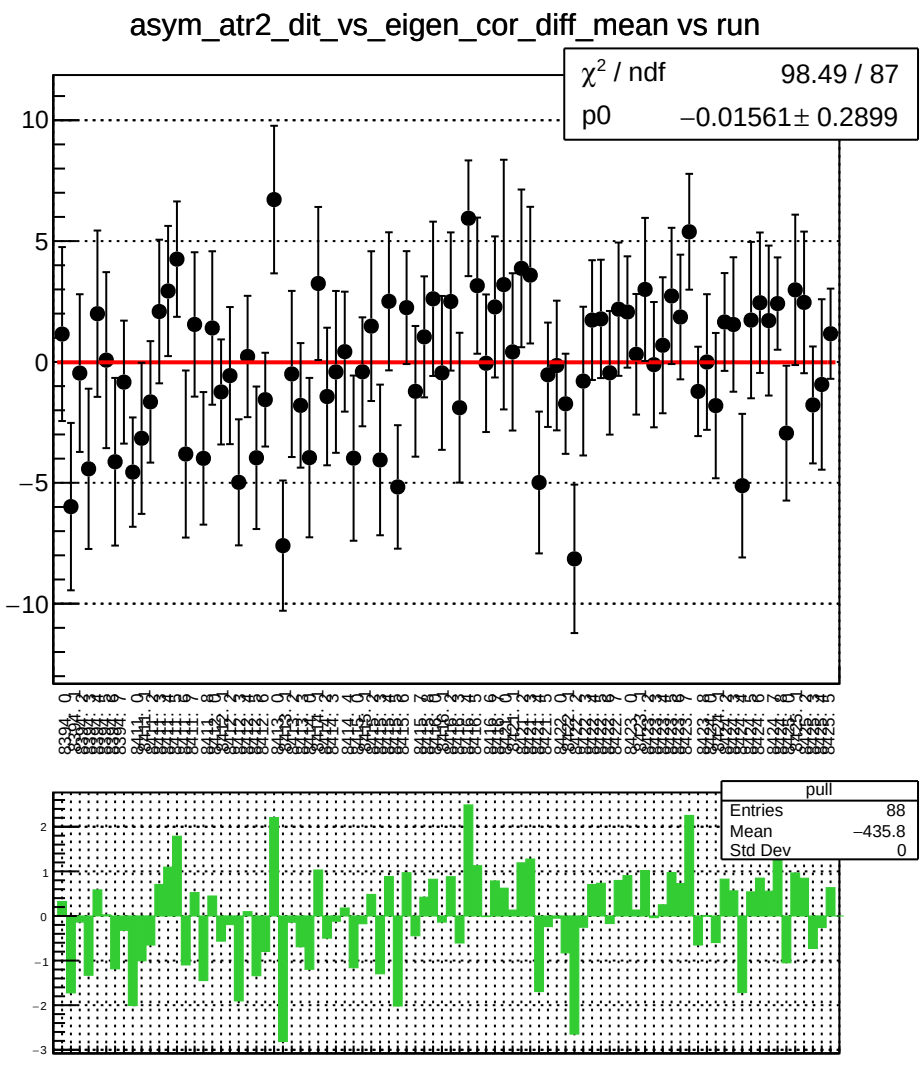

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 94.46 / 87
p0 2.216e−12 ± 1.766e−12
0.08
0.06
0.04
0.02
0
−0.02
pull
Entries 88
Mean 35.8
Std Dev 0
pull1D
Entries 88
Mean 0.08451
Std Dev 1.033
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

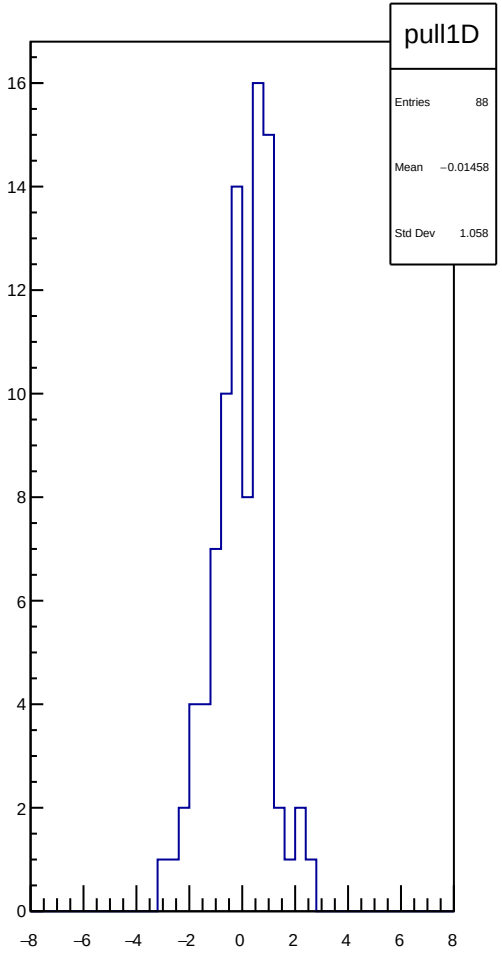

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.15e+06 / 87
p0 9.203e−10 ± 1.249e−12
2.5
2
1.5
1
0.5
0

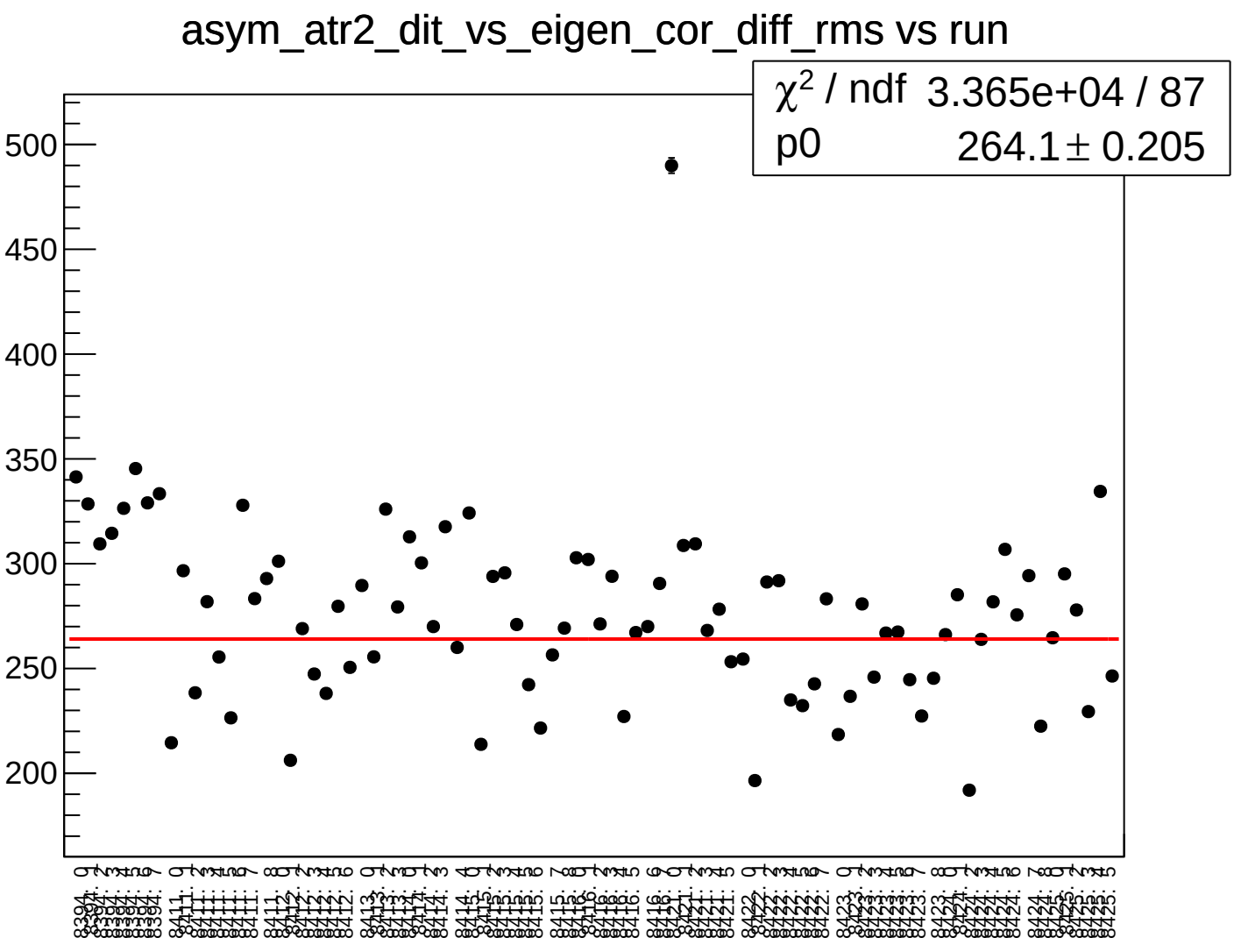

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 98.49 / 87
p0 −0.01561 ± 0.2899
pull
Entries 88
Mean −435.8
Std Dev 0

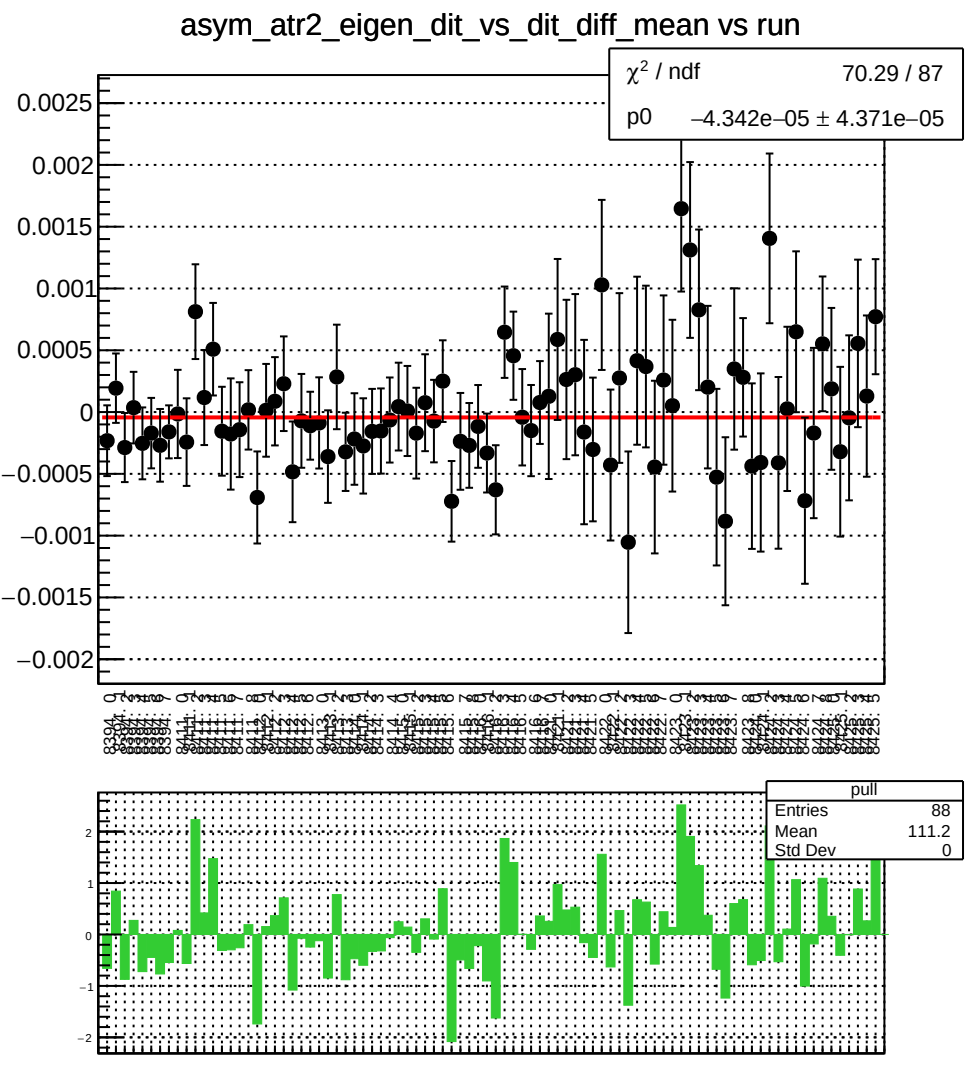

pull1D
Entries 88
Mean −0.01458
Std Dev 1.058

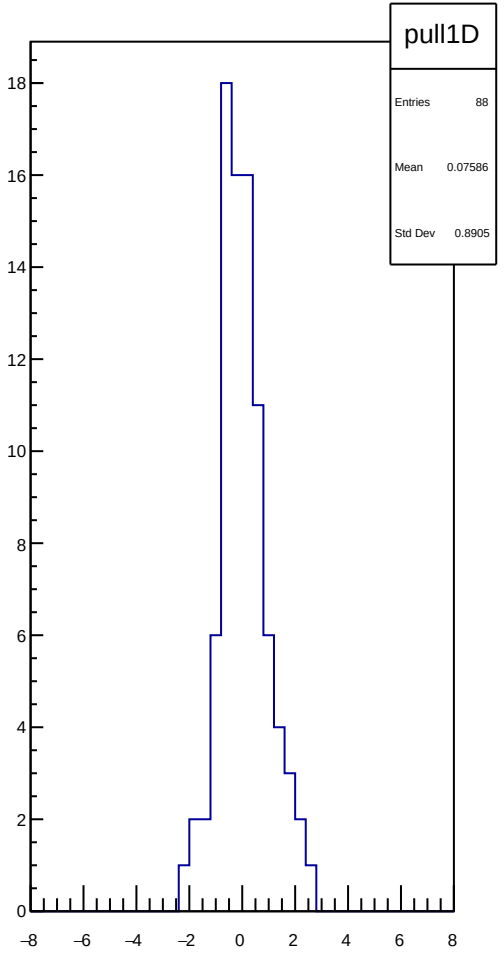

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 3.365e+04 / 87
p0 264.1 ± 0.205
500
450
400
350
300
250
200

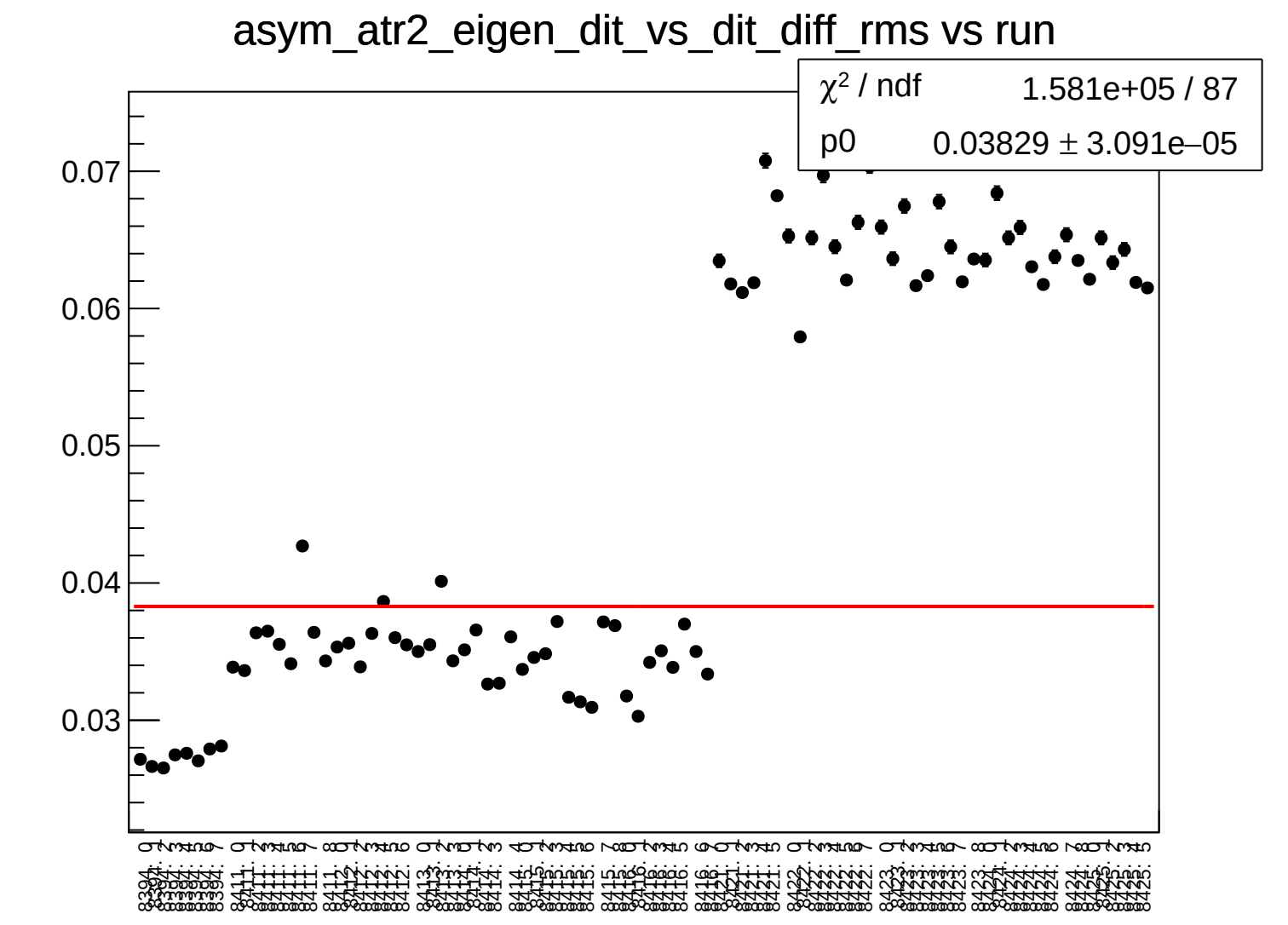

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.49 / 87
p0 −0.01561 ± 0.2899
pull
Entries 88
Mean −435.8
Std Dev 0

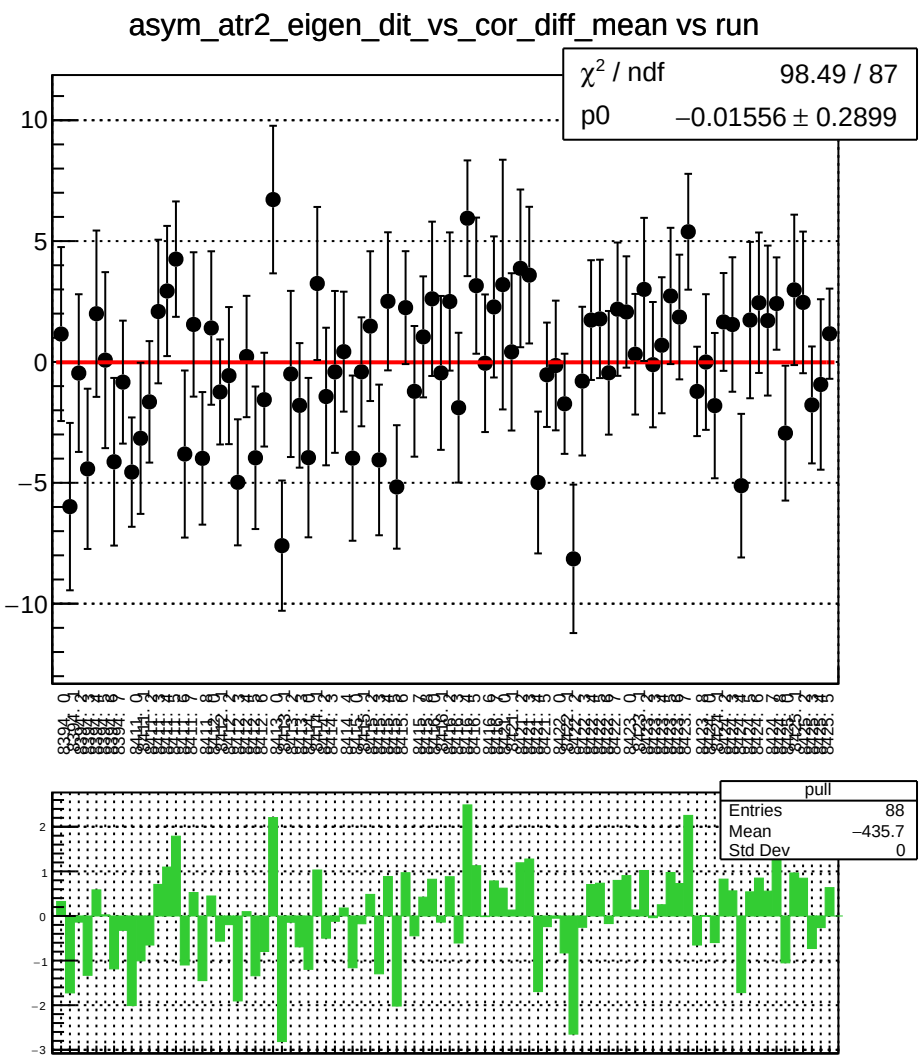

pull1D
Entries 88
Mean −0.01458
Std Dev 1.058

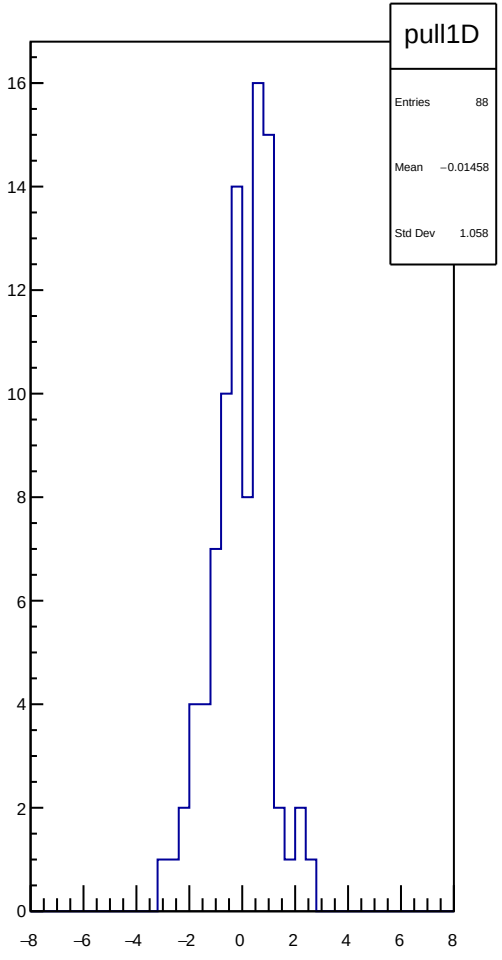

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.365e+04 / 87
p0 264.1 ± 0.205
500
450
400
350
300
250
200

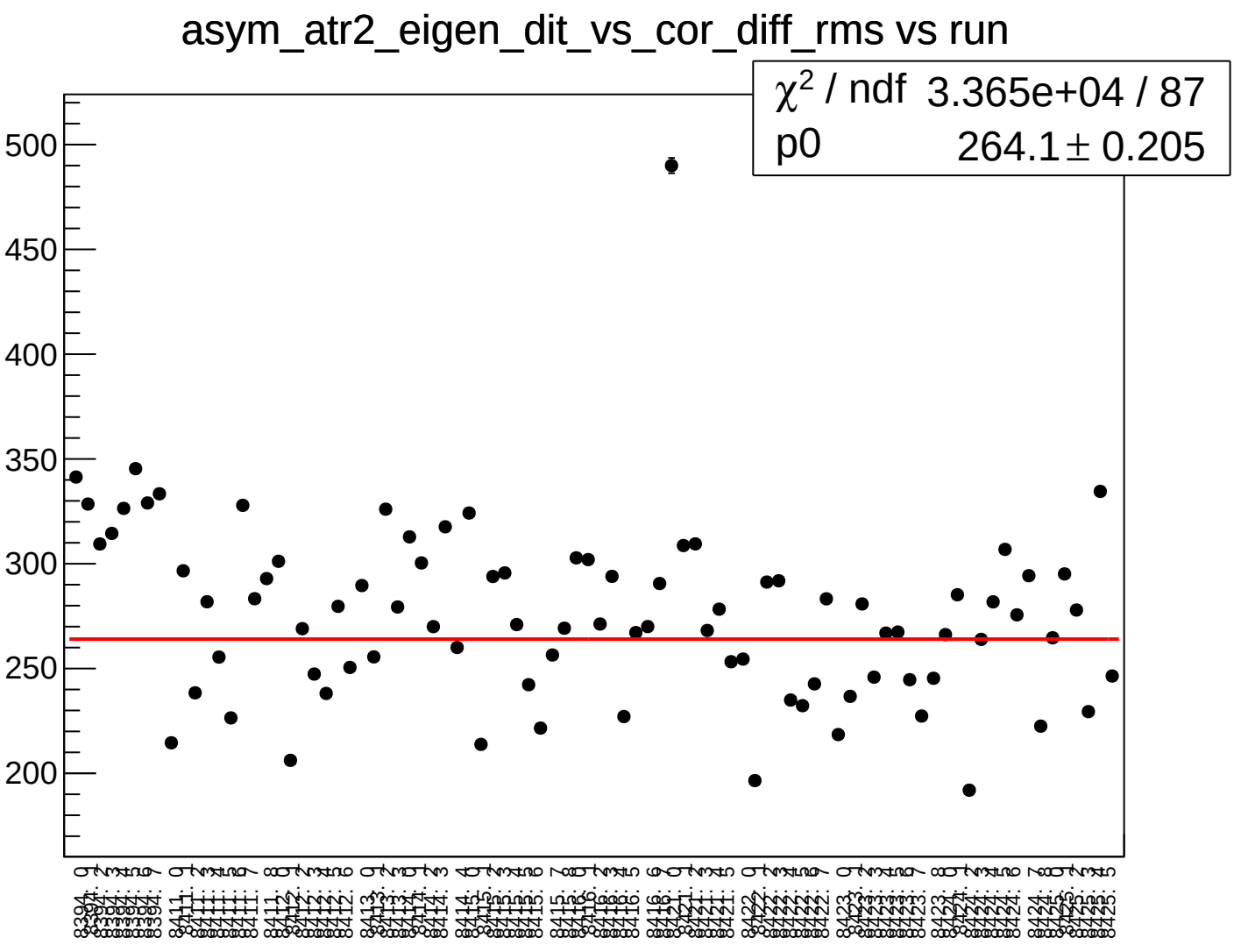

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 70.29 / 87
p0 −4.342e−05 ± 4.371e−05
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 88
Mean 111.2
Std Dev 0
2
1
0
−1
−2

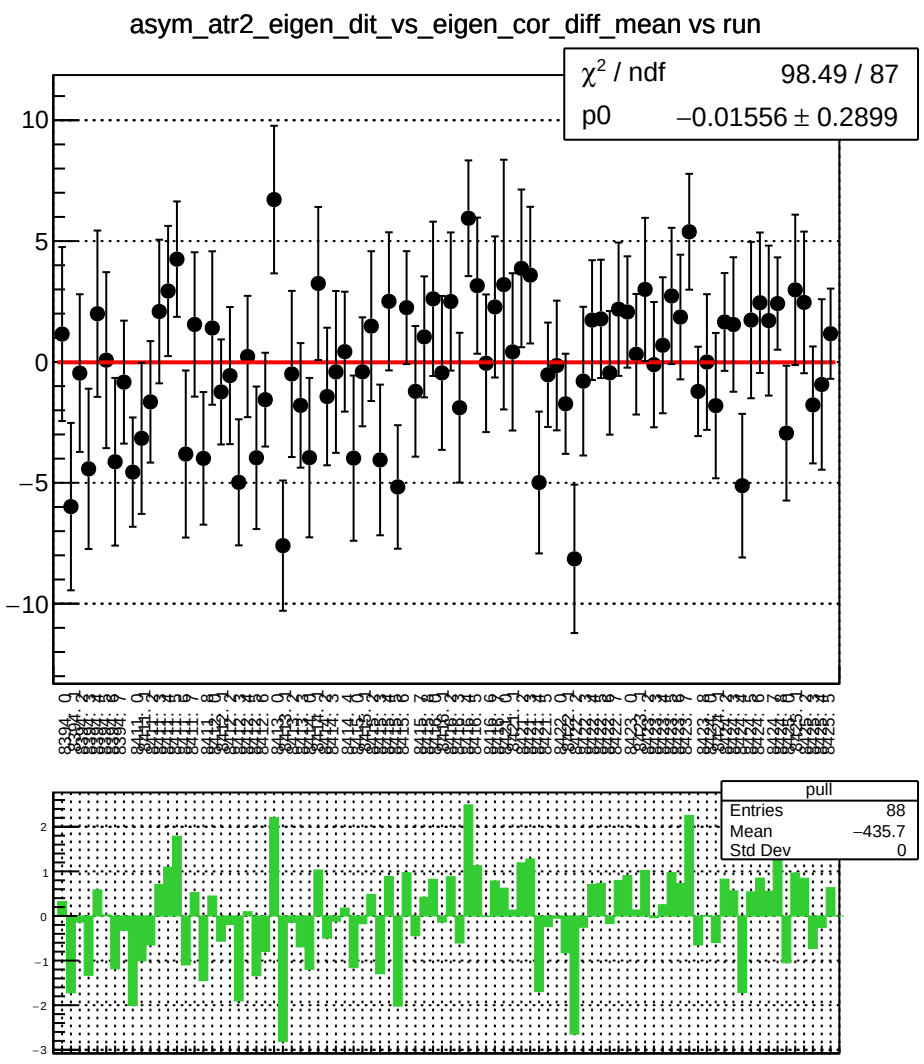

pull1D
Entries 88
Mean 0.07586
Std Dev 0.8905
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

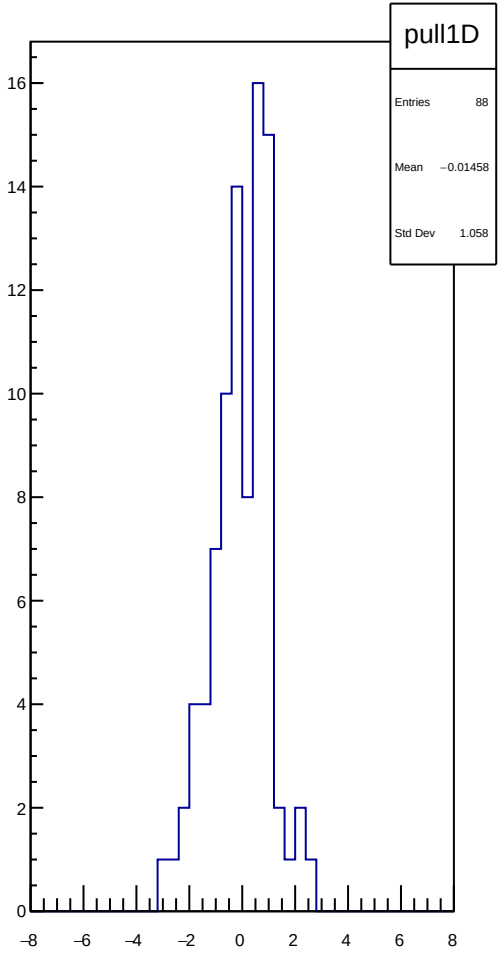

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.581e+05 / 87
p0 0.03829 ± 3.091e−05
0.07
0.06
0.05
0.04
0.03

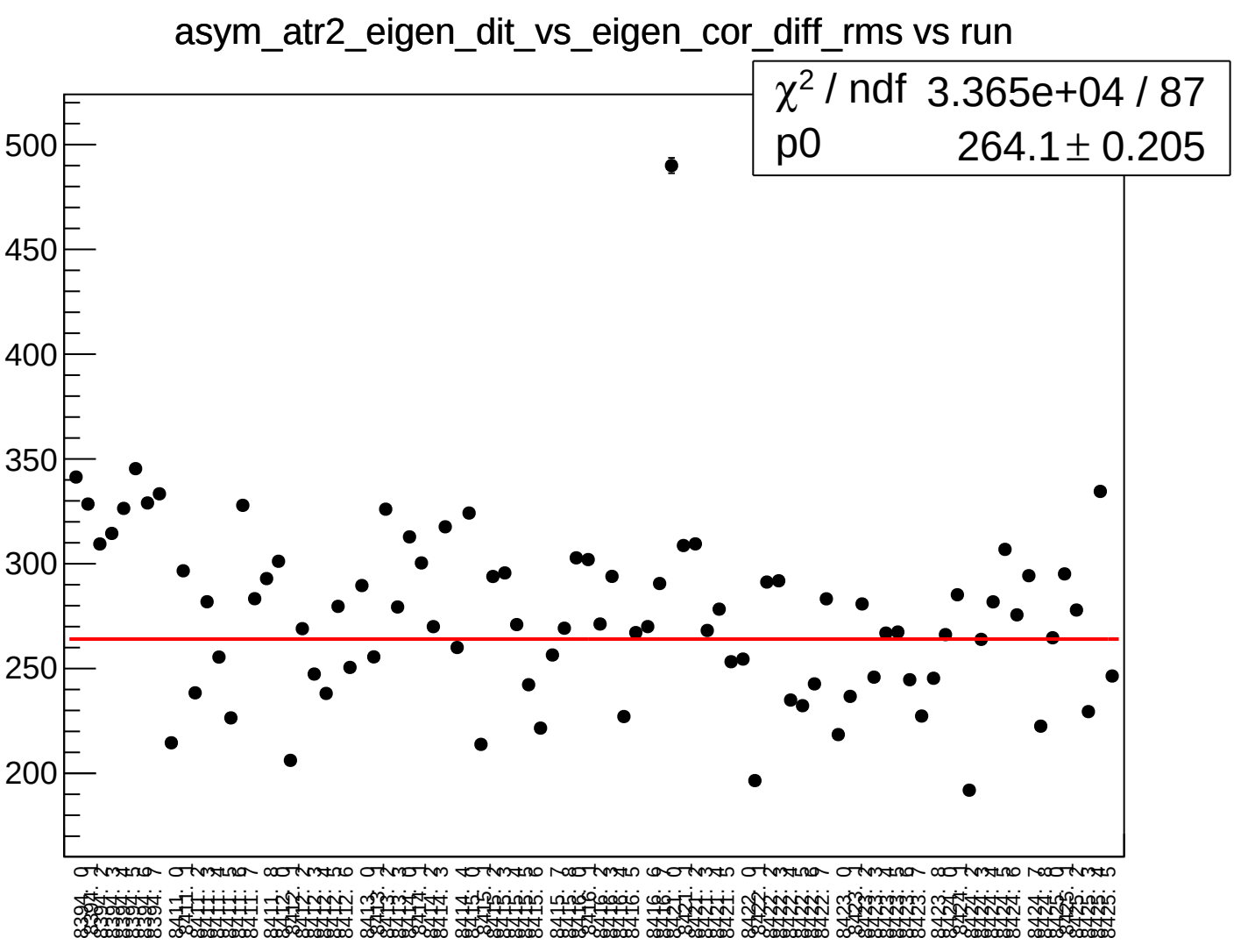

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.49 / 87
p0 −0.01556 ± 0.2899
pull
Entries 88
Mean −435.7
Std Dev 0

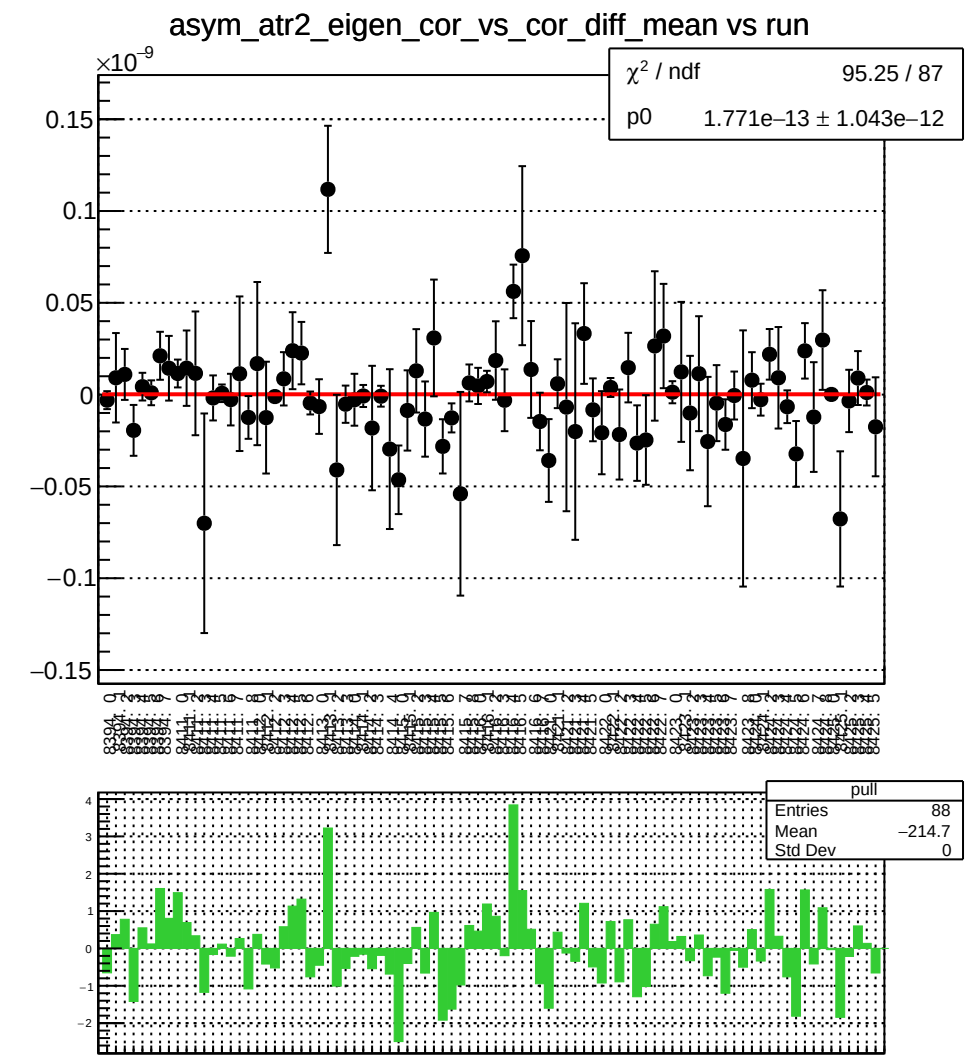

pull1D
Entries 88
Mean −0.01458
Std Dev 1.058

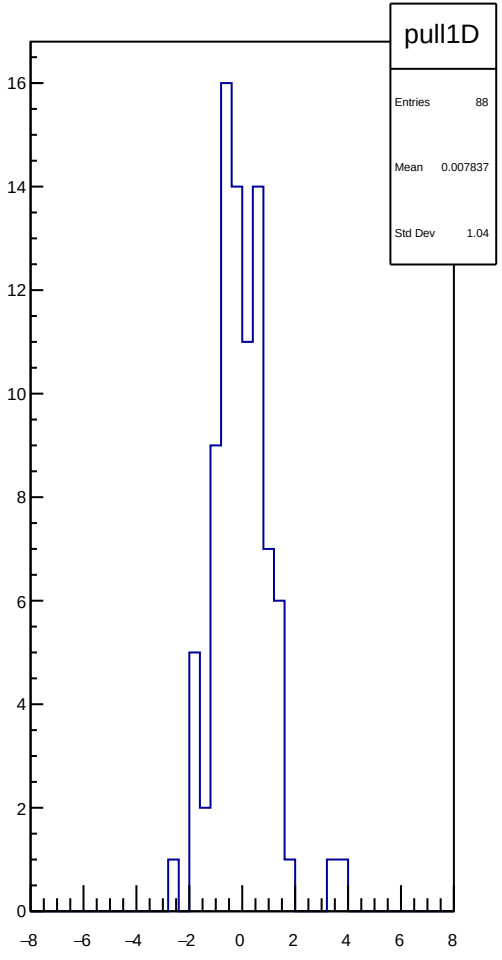

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.365e+04 / 87
p0 264.1 ± 0.205
500
450
400
350
300
250
200

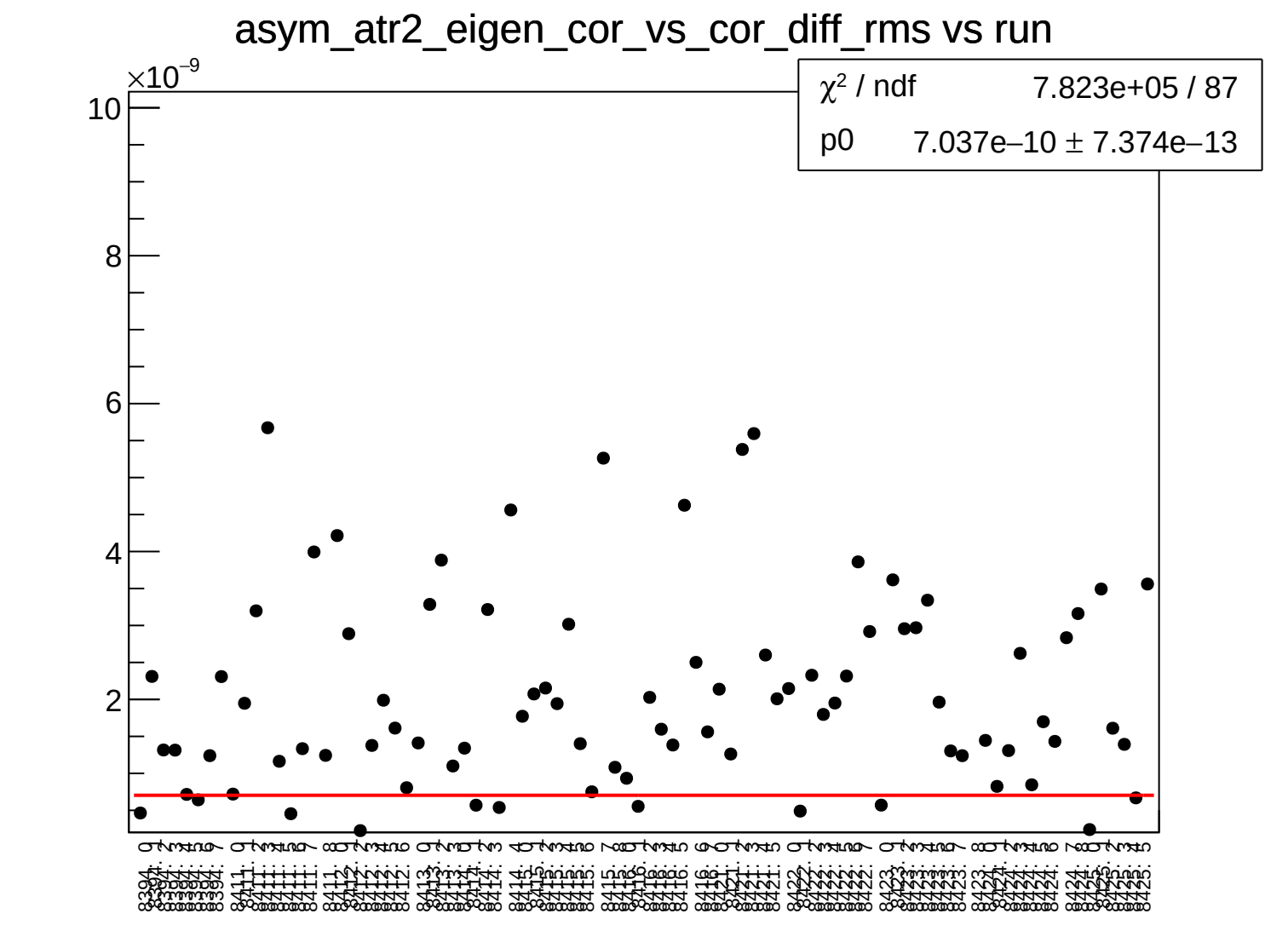

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.49 / 87
p0 −0.01556 ± 0.2899
pull
Entries 88
Mean −435.7
Std Dev 0

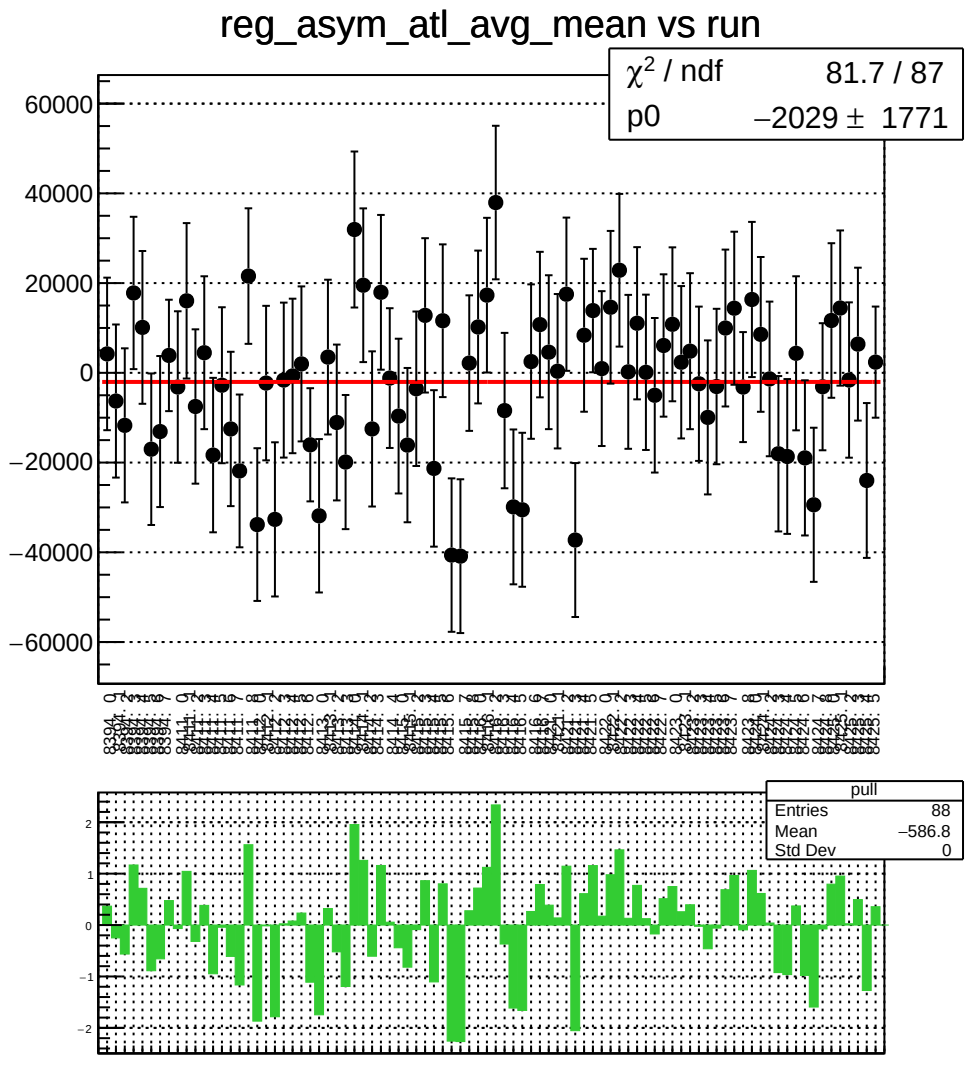

pull1D
Entries 88
Mean −0.01458
Std Dev 1.058

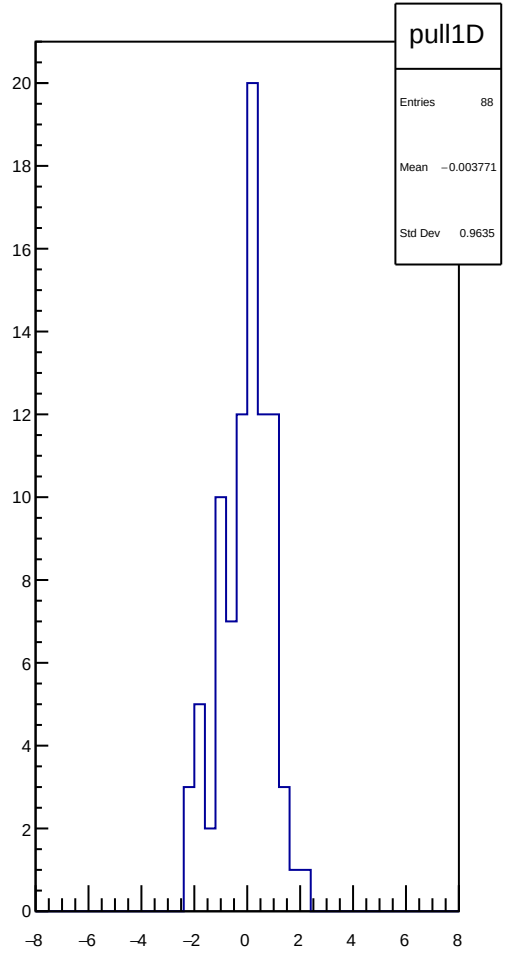

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.365e+04 / 87
p0 264.1 ± 0.205
500
450
400
350
300
250
200

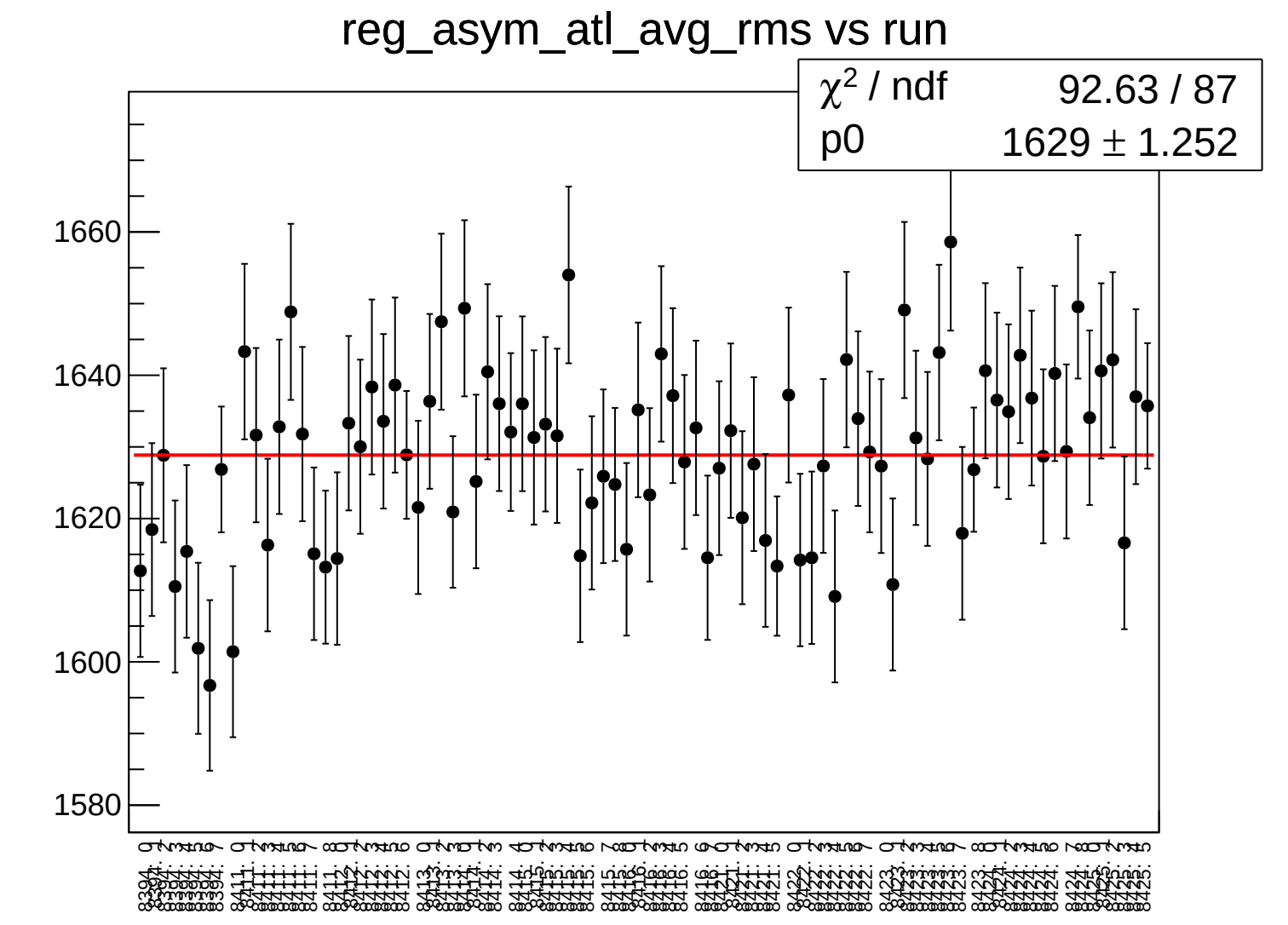

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 95.25 / 87
p0 1.771e−13 ± 1.043e−12
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 88
Mean −214.7
Std Dev 0
4
3
2
1
0
−1
−2

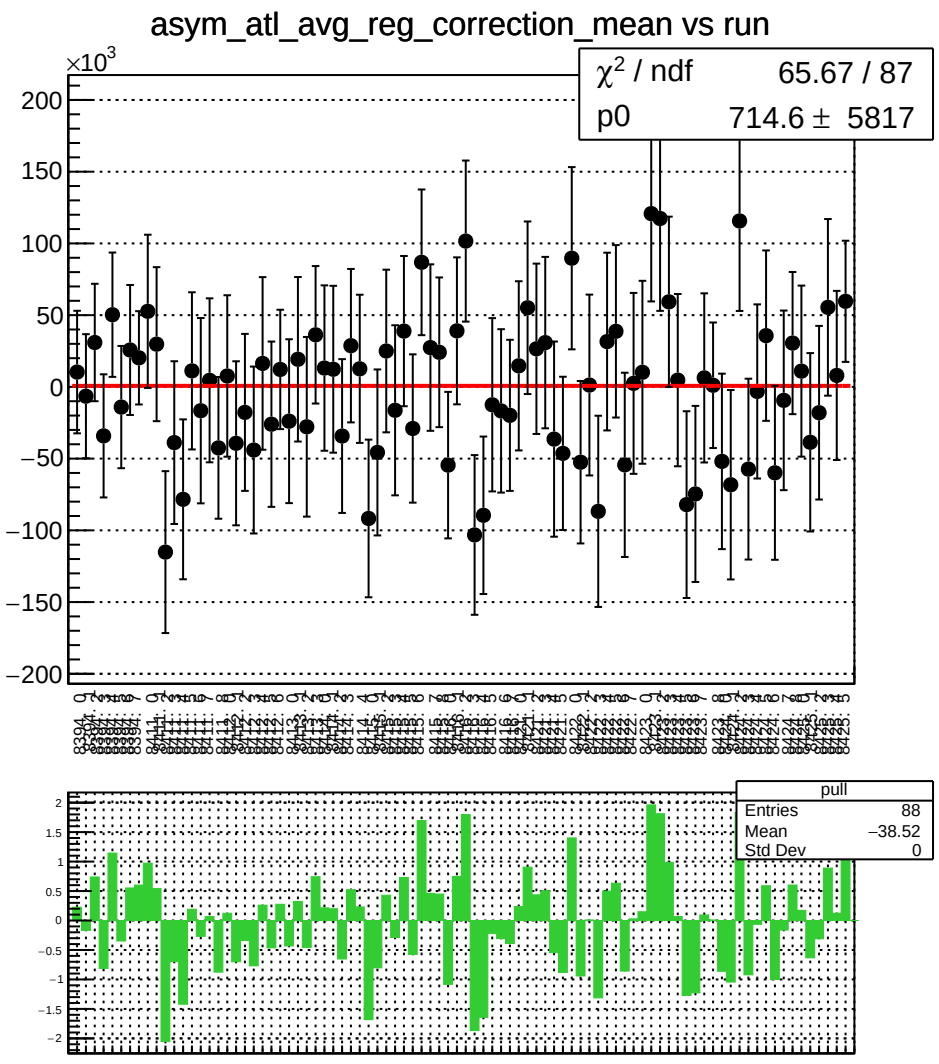

pull1D
Entries 88
Mean 0.007837
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

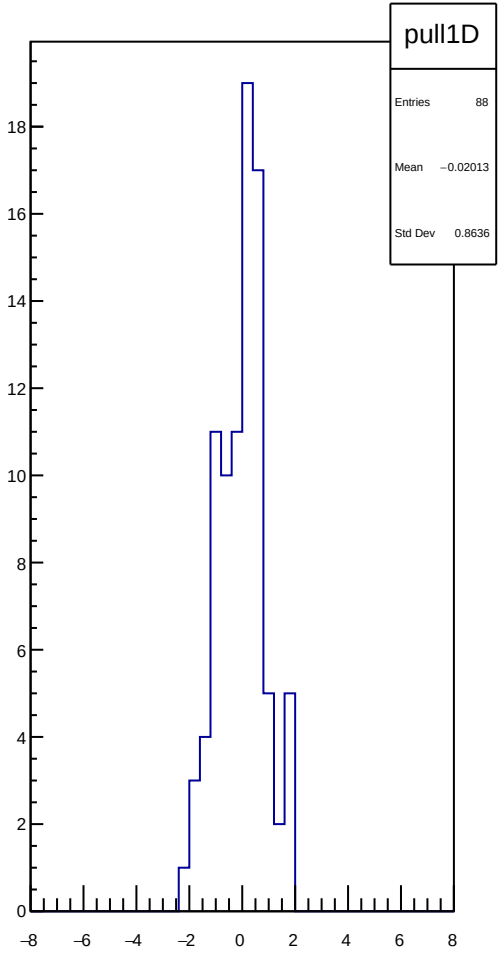

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
10
8
6
4
2
χ² / ndf 7.823e+05 / 87
p0 7.037e−10 ± 7.374e−13

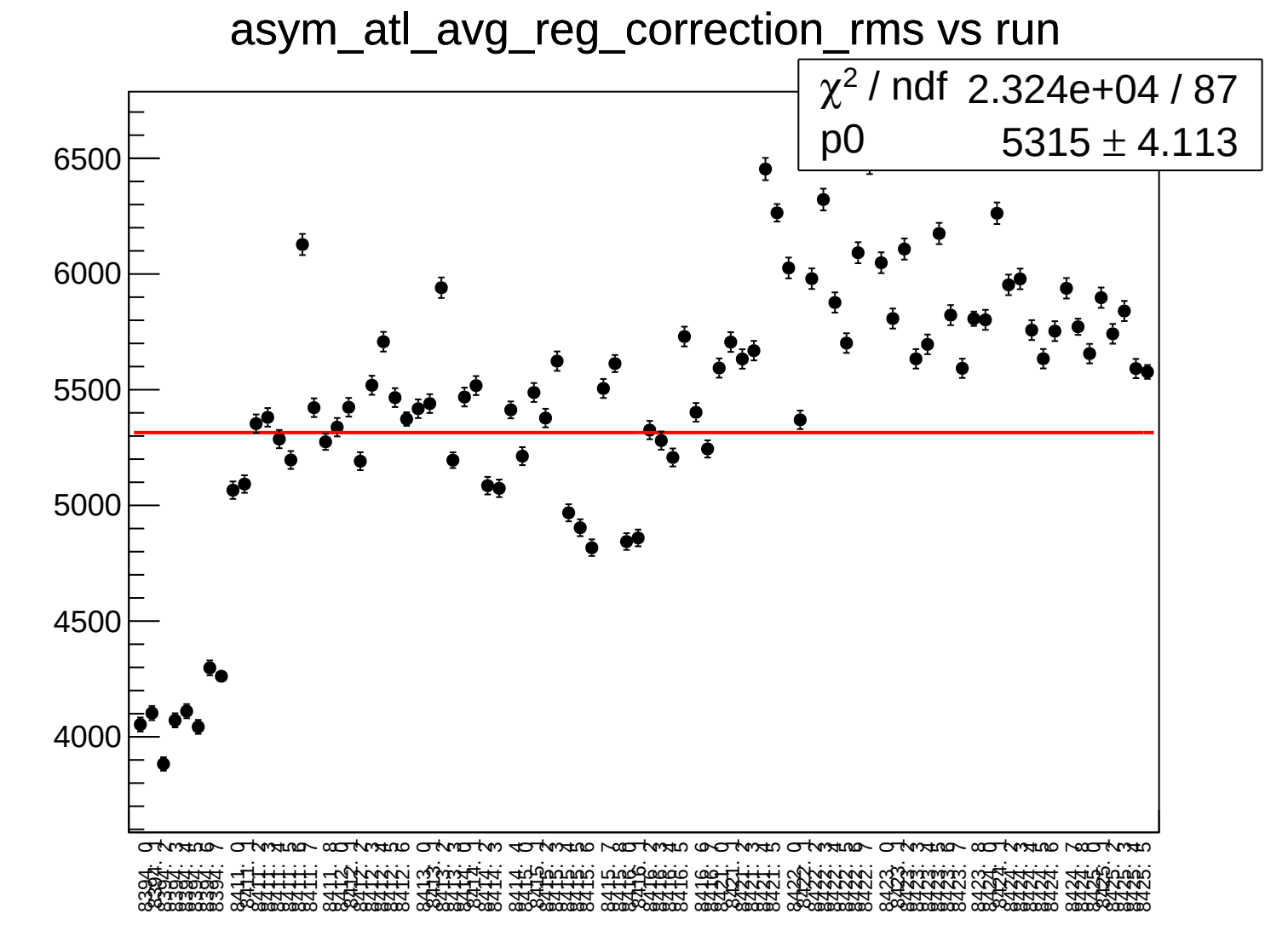

reg_asym_atl_avg_mean vs run
χ² / ndf 81.7 / 87
p0 −2029 ± 1771
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −586.8
Std Dev 0
2
1
0
−1
−2

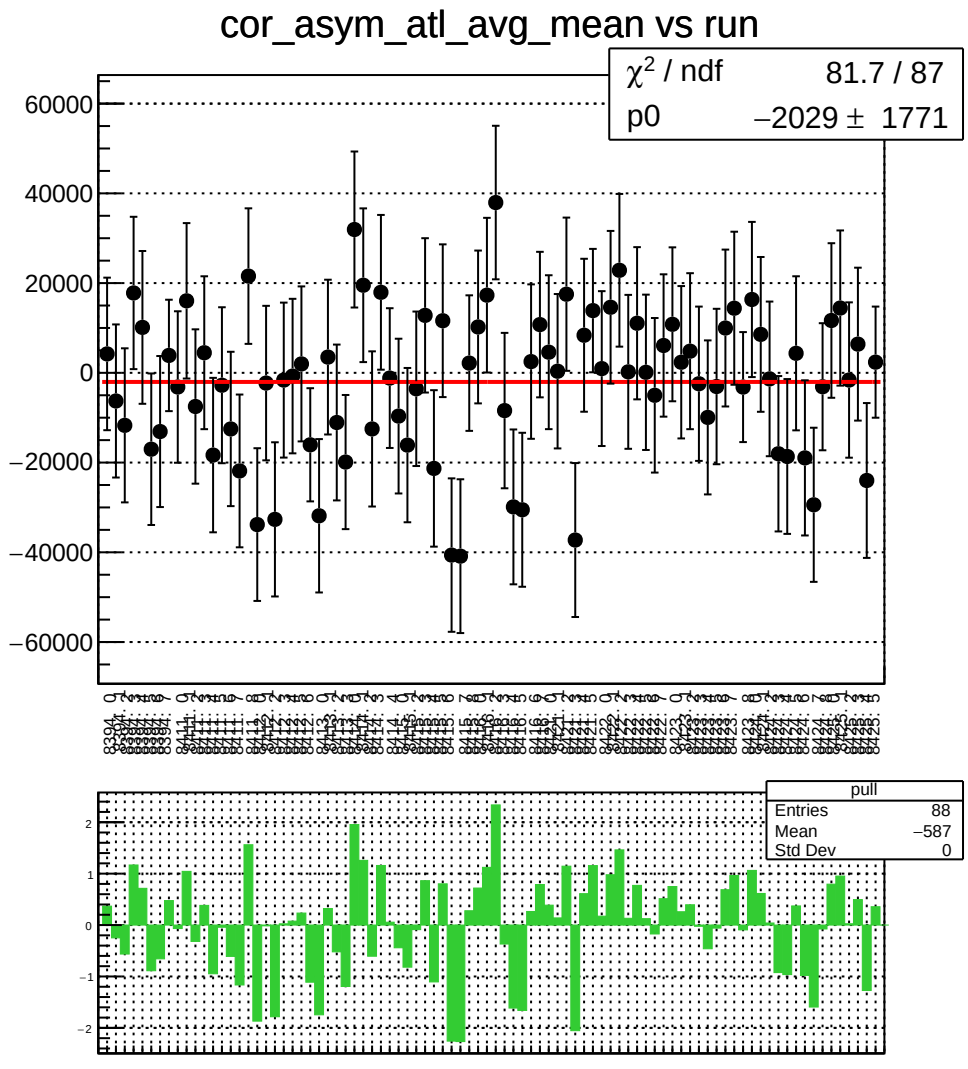

pull1D
Entries 88
Mean −0.003771
Std Dev 0.9635
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

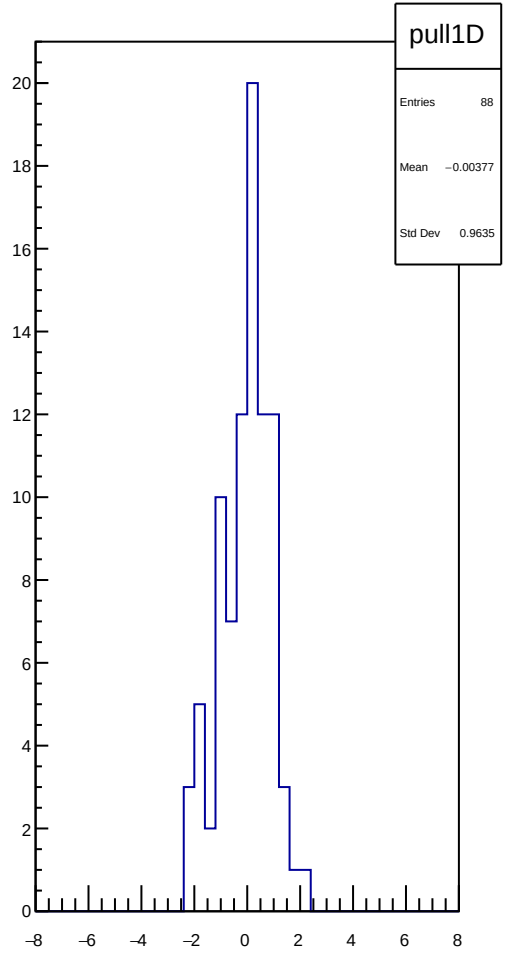

reg_asym_atl_avg_rms vs run
χ^2 / ndf 92.63 / 87
p0 1629 ± 1.252
1660
1640
1620
1600
1580

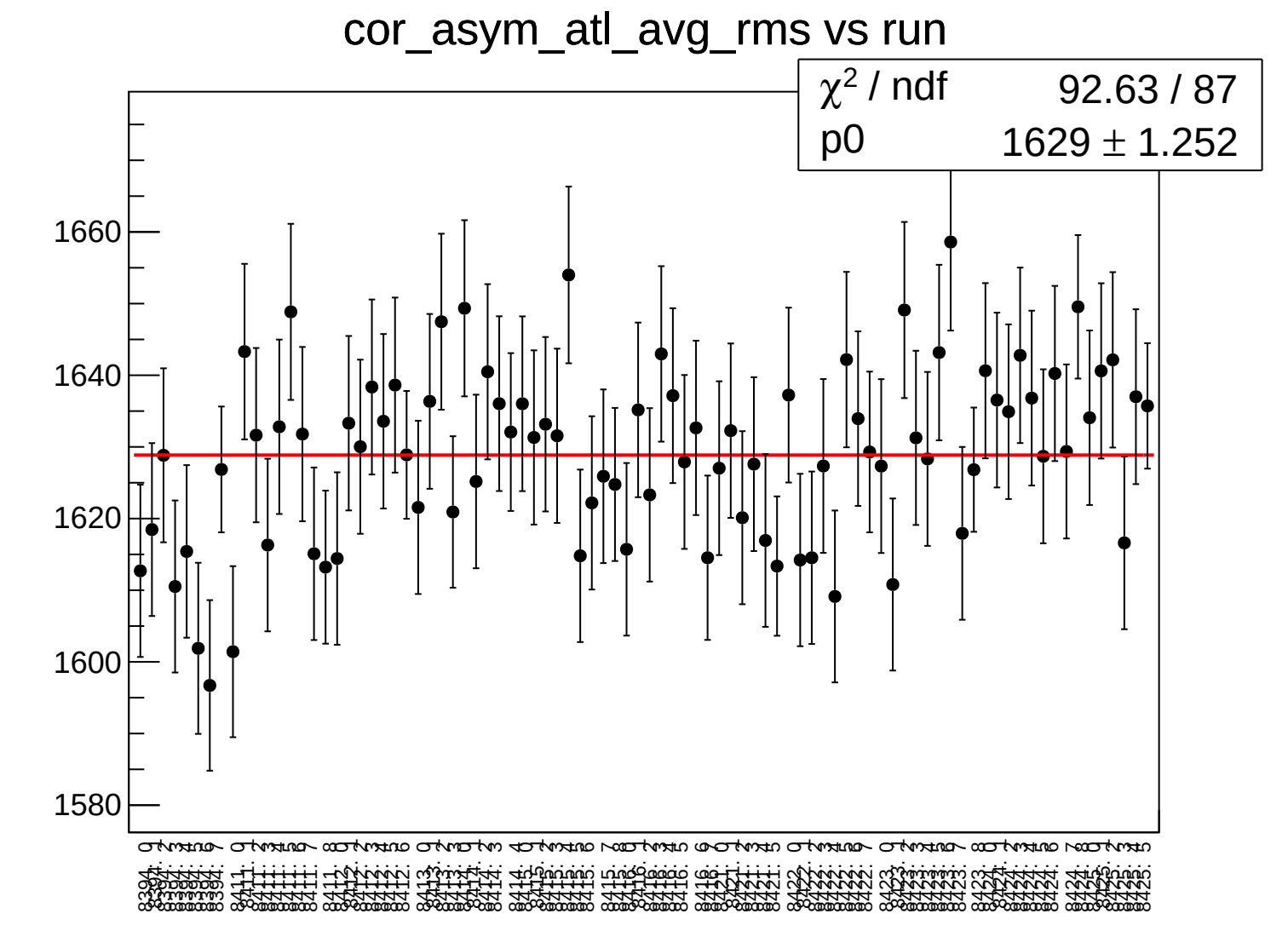

asym_atl_avg_reg_correction_mean vs run
×10^3
χ² / ndf 65.67 / 87
p0 714.6 ± 5817
pull
Entries 88
Mean −38.52
Std Dev 0

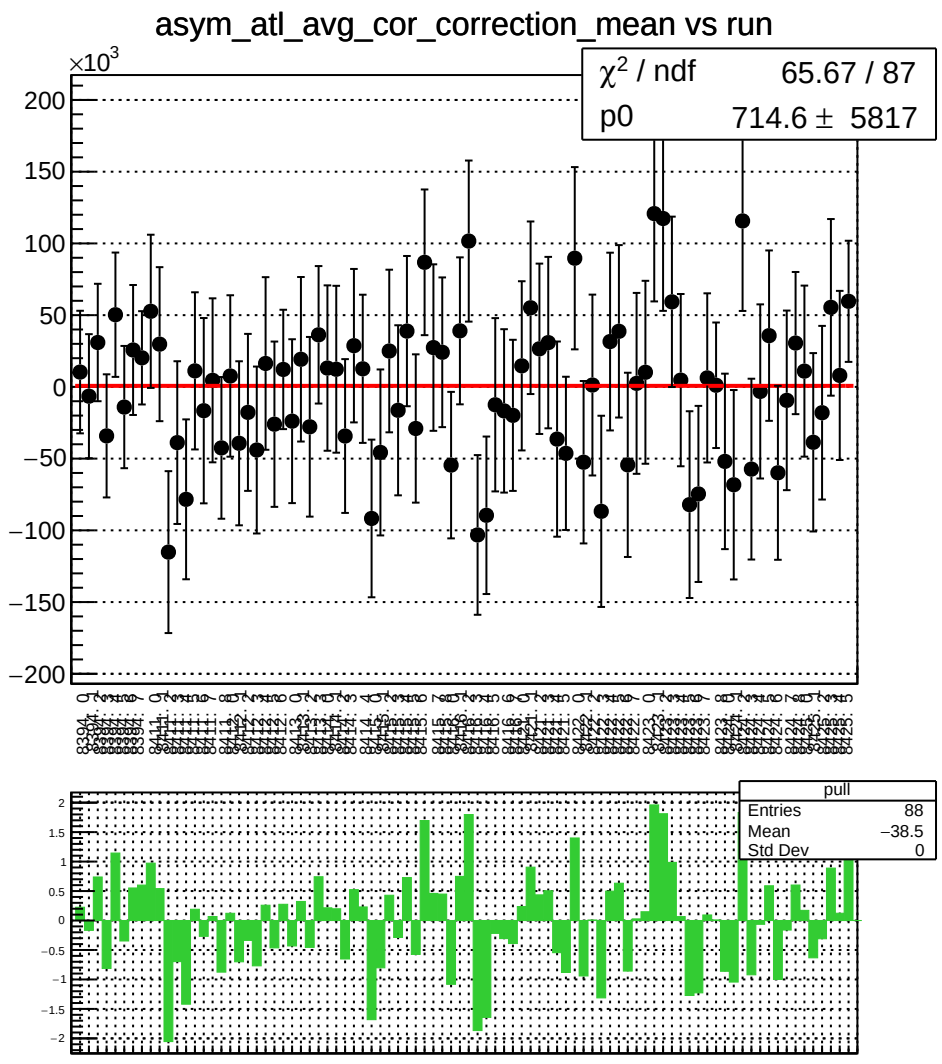

pull1D
Entries 88
Mean −0.02013
Std Dev 0.8636

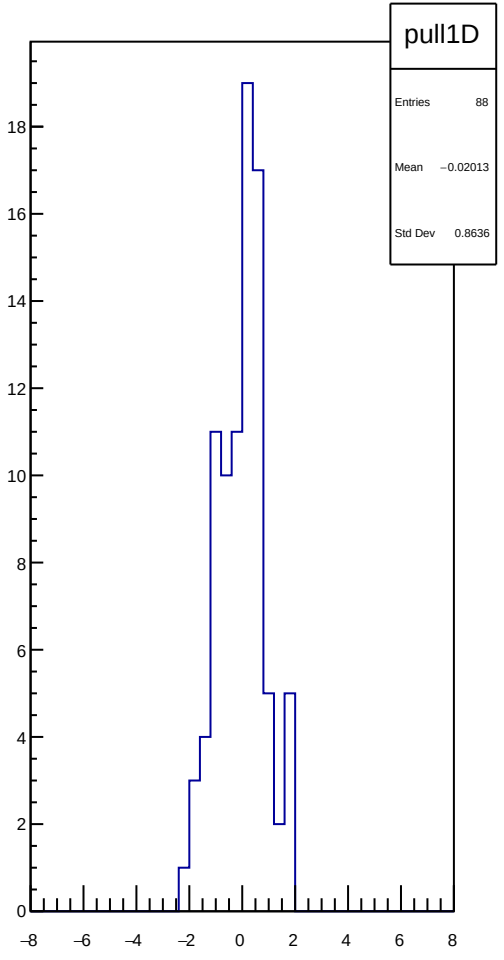

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 2.324e+04 / 87
p0 5315 ± 4.113
6500
6000
5500
5000
4500
4000

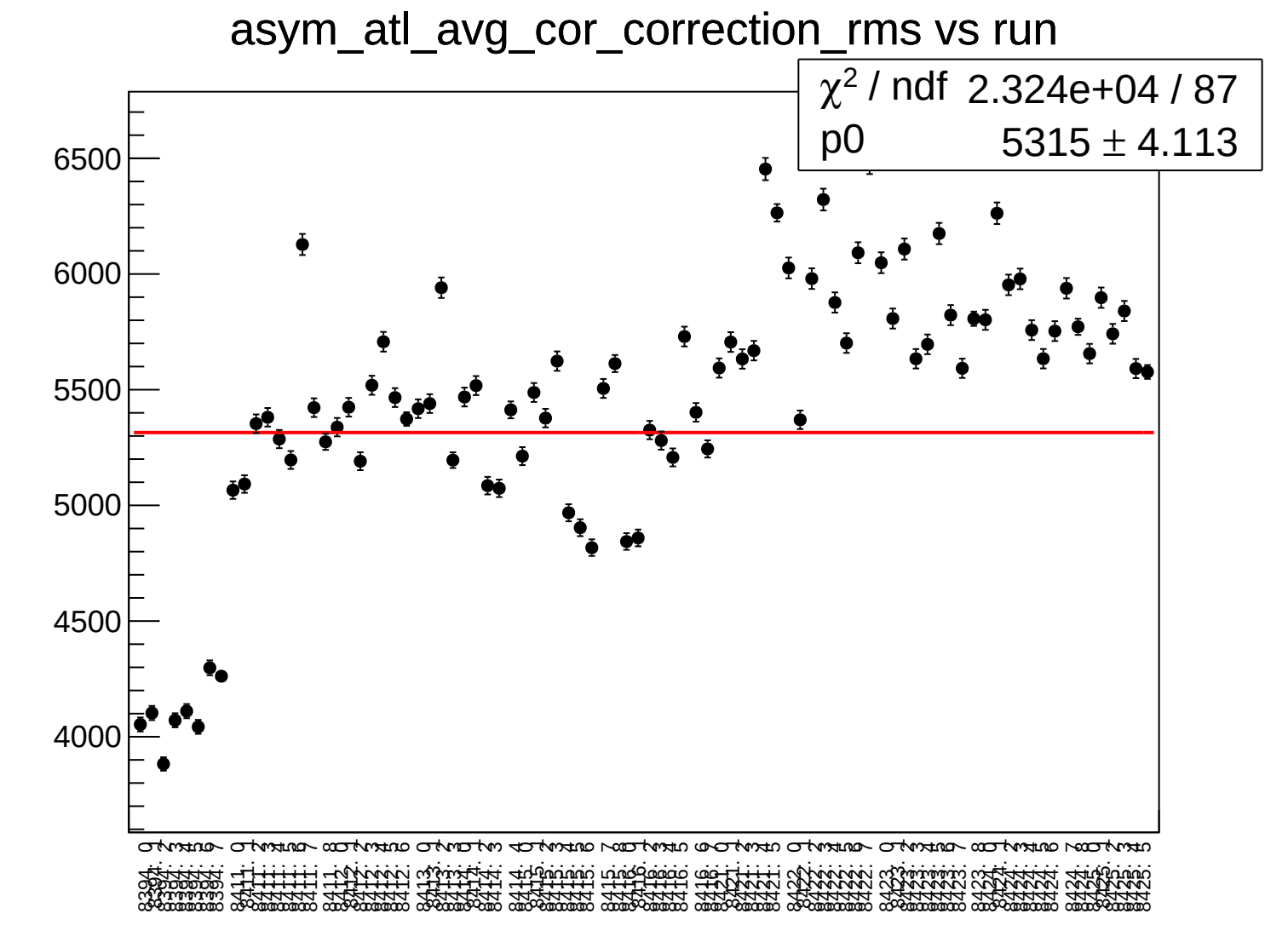

cor_asym_atl_avg_mean vs run
χ² / ndf 81.7 / 87
p0 −2029 ± 1771
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −587
Std Dev 0
2
1
0
−1
−2

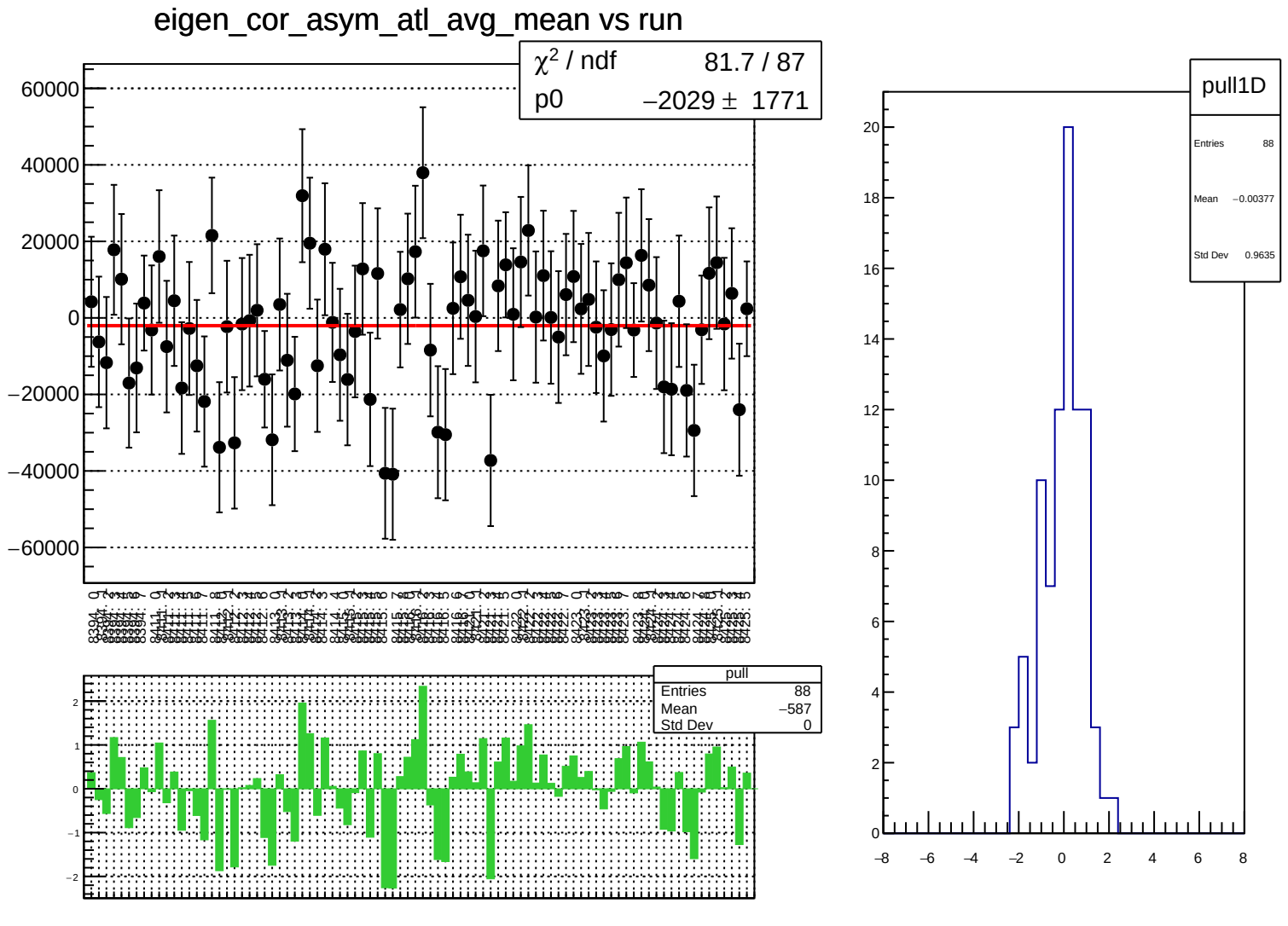

pull1D
Entries 88
Mean −0.00377
Std Dev 0.9635
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

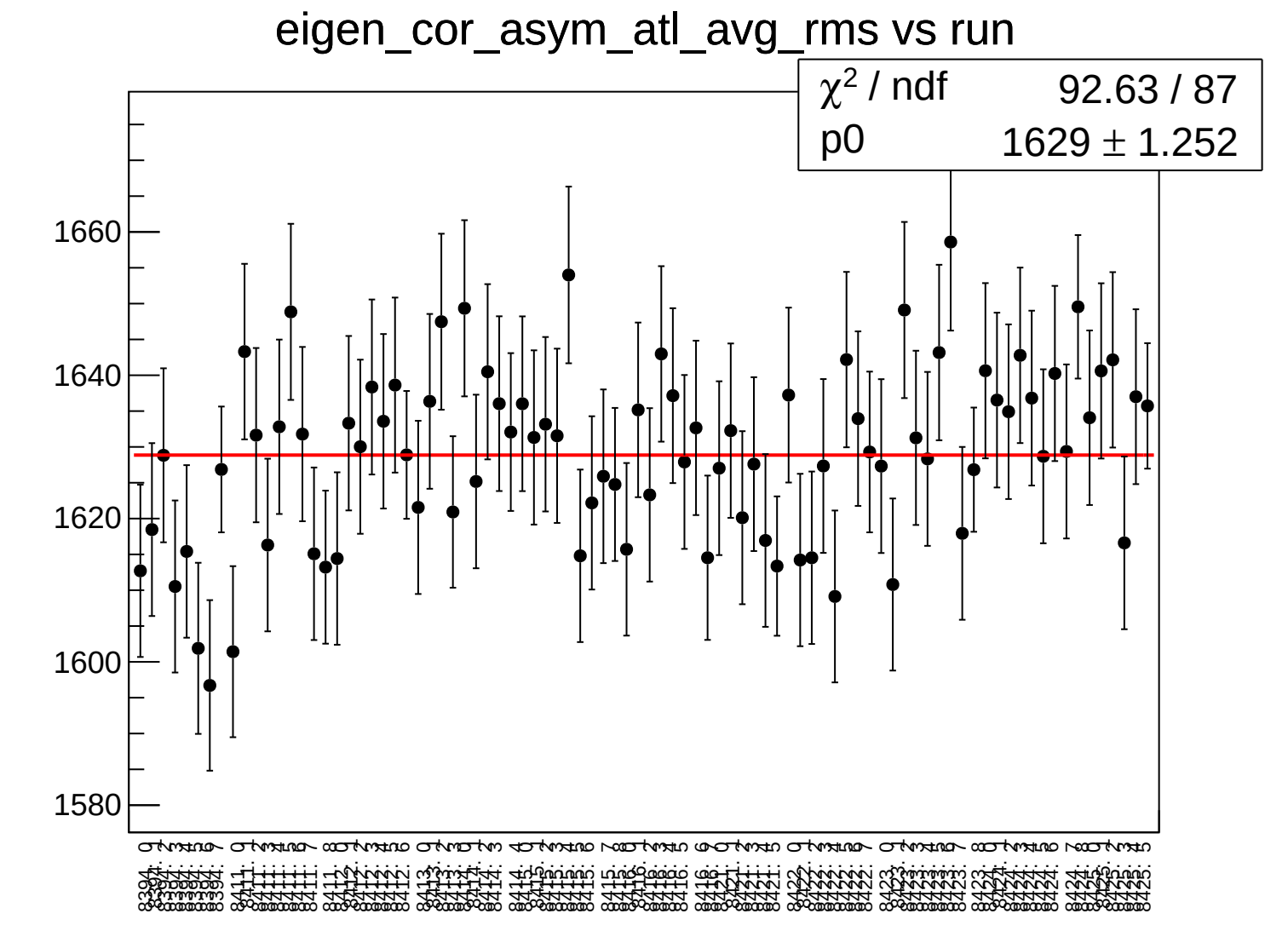

cor_asym_atl_avg_rms vs run
χ^2 / ndf 92.63 / 87
p0 1629 ± 1.252
1660
1640
1620
1600
1580

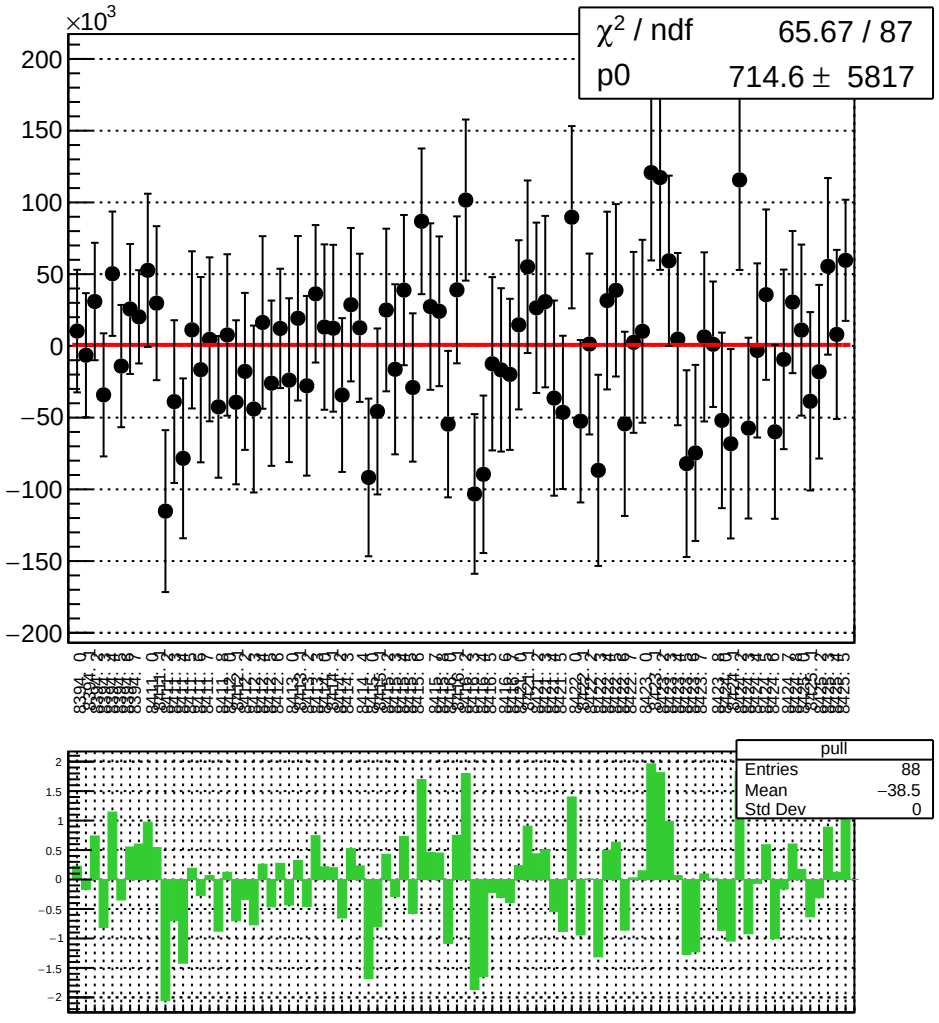

asym_atl_avg_cor_correction_mean vs run
×10^3
χ² / ndf 65.67 / 87
p0 714.6 ± 5817
pull
Entries 88
Mean −38.5
Std Dev 0

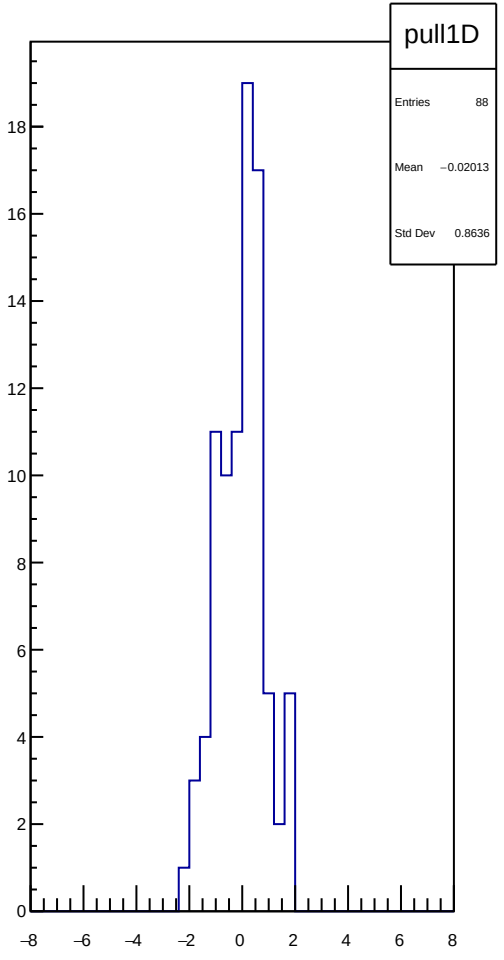

pull1D
Entries 88
Mean −0.02013
Std Dev 0.8636

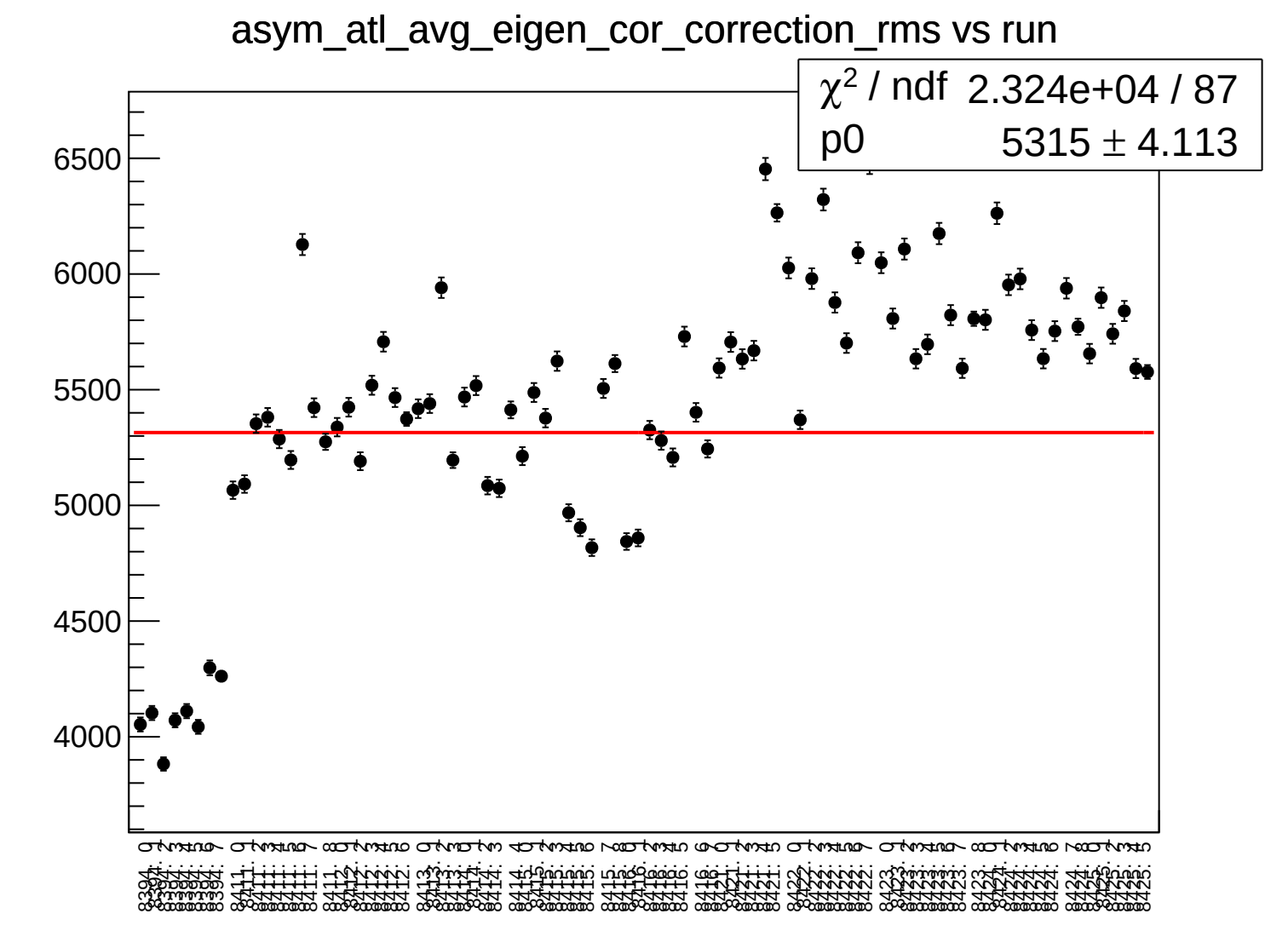

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 2.324e+04 / 87
p0 5315 ± 4.113
6500
6000
5500
5000
4500
4000

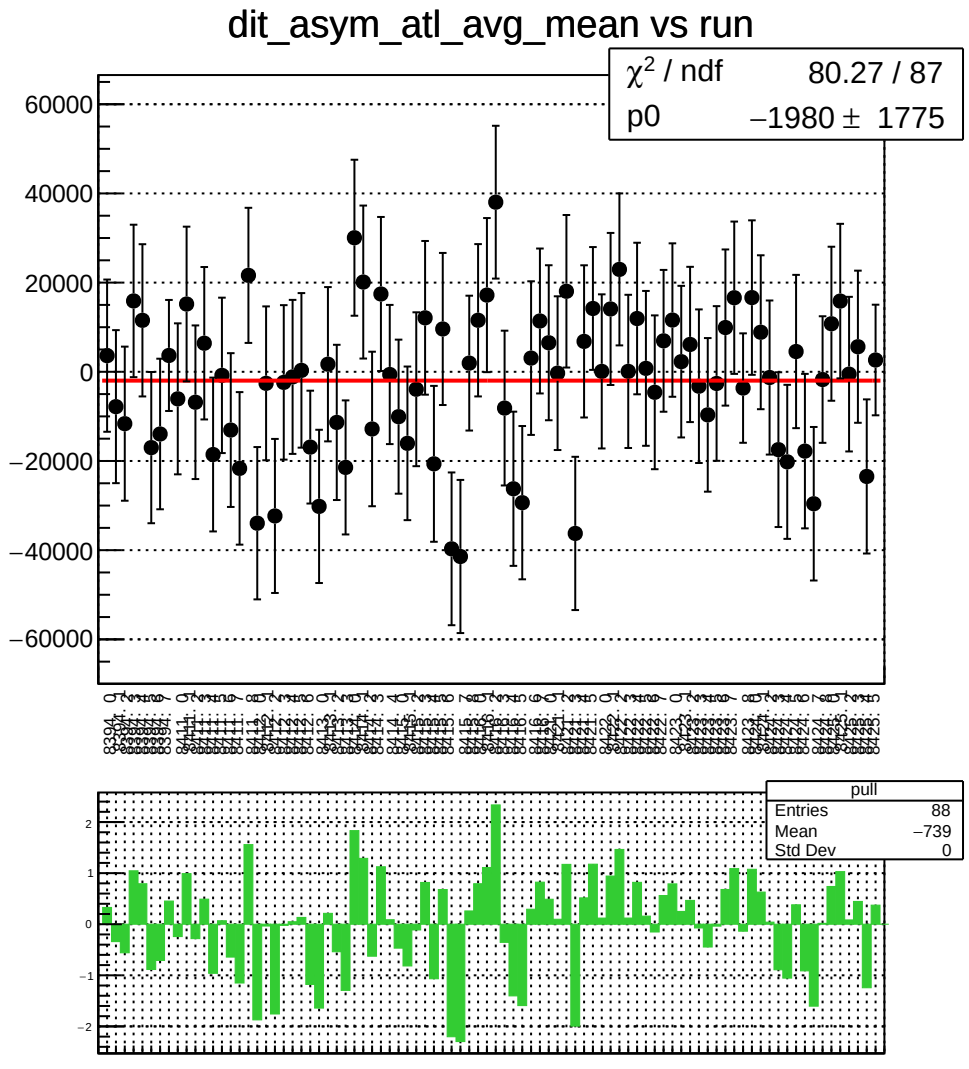

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 81.7 / 87
p0 −2029 ± 1771
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −587
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.00377
Std Dev 0.9635
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

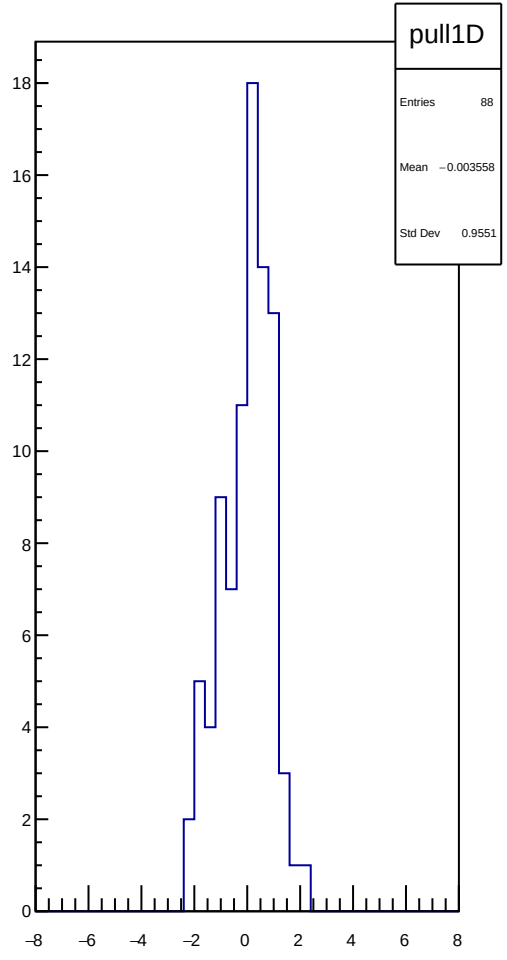

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 92.63 / 87
p0 1629 ± 1.252
1660
1640
1620
1600
1580

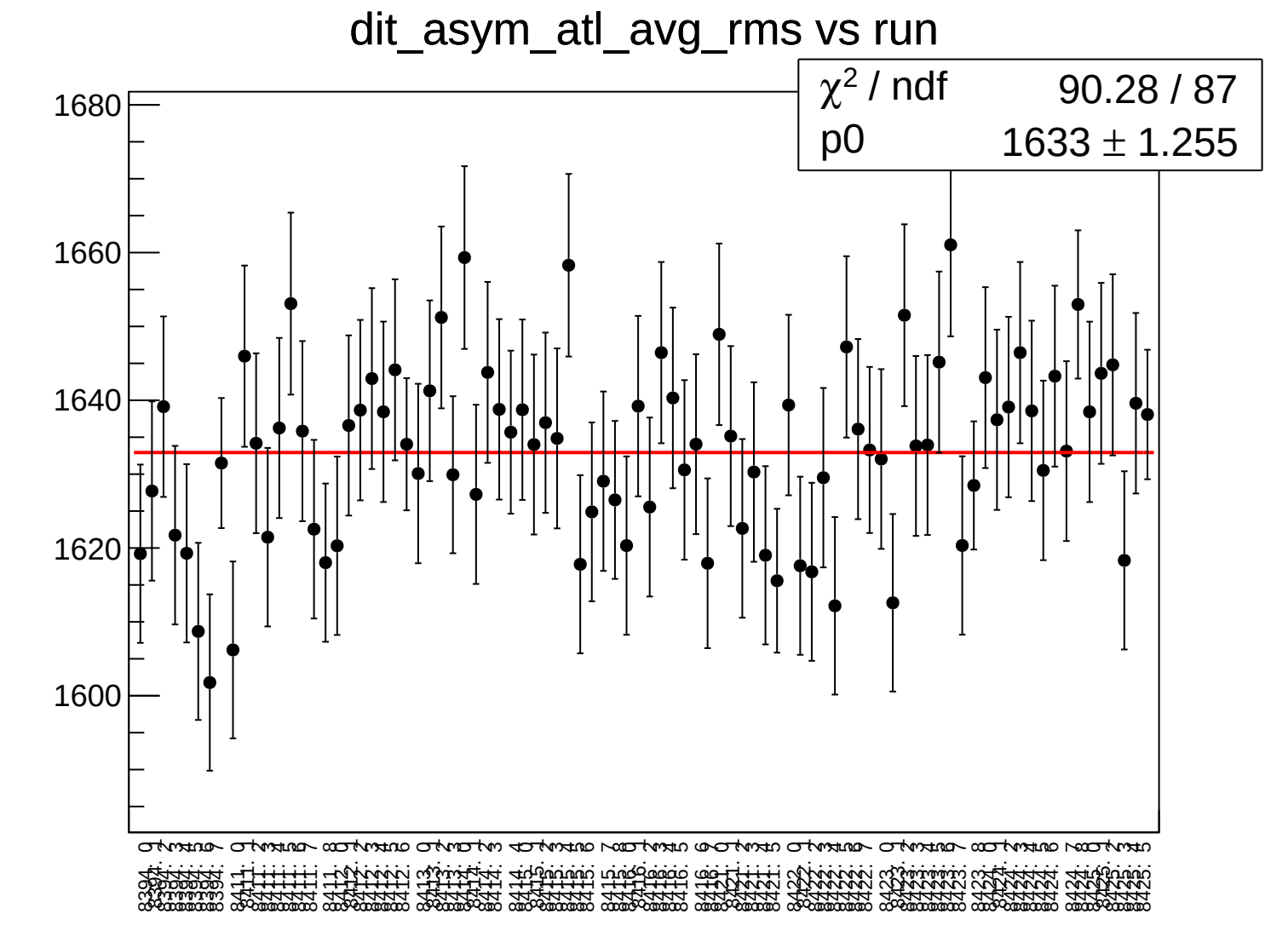

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 65.67 / 87
p0 714.6 ± 5817
pull
Entries 88
Mean −38.5
Std Dev 0

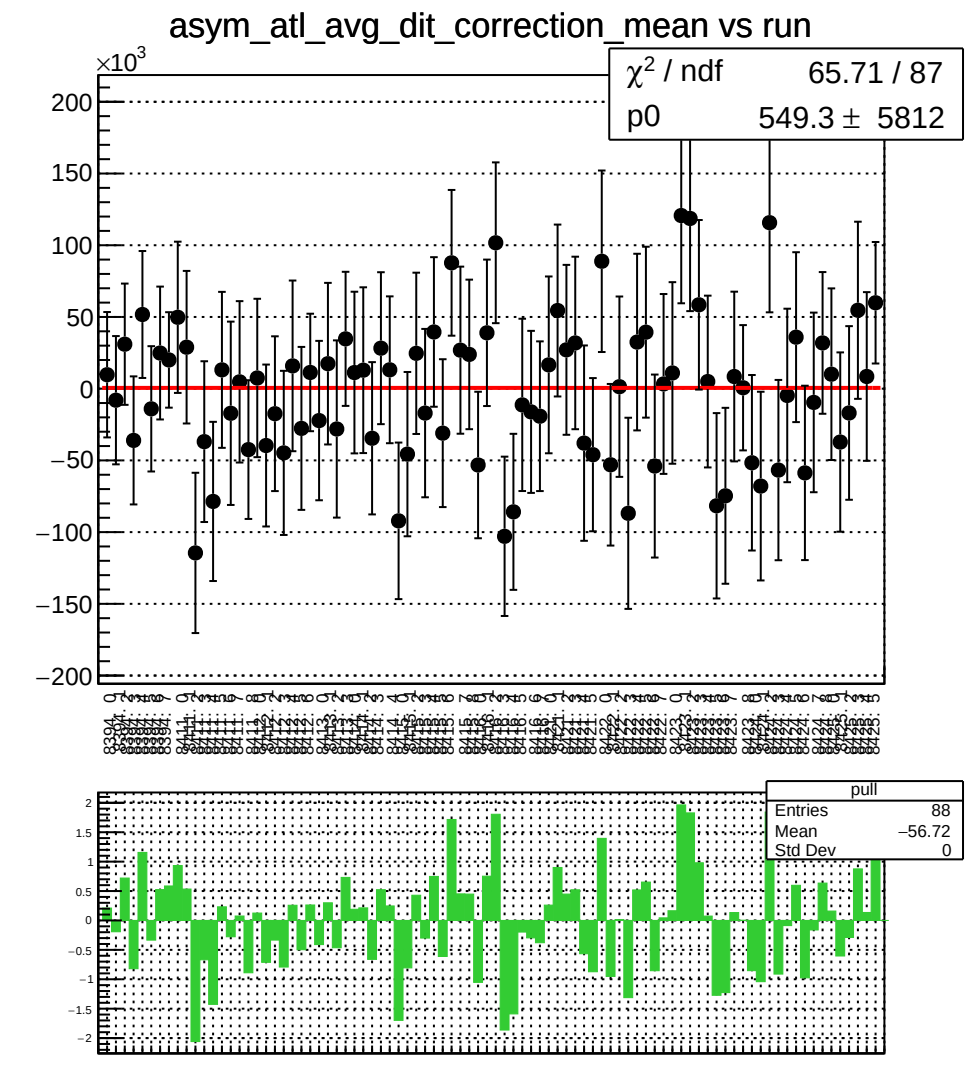

pull1D
Entries 88
Mean −0.02013
Std Dev 0.8636

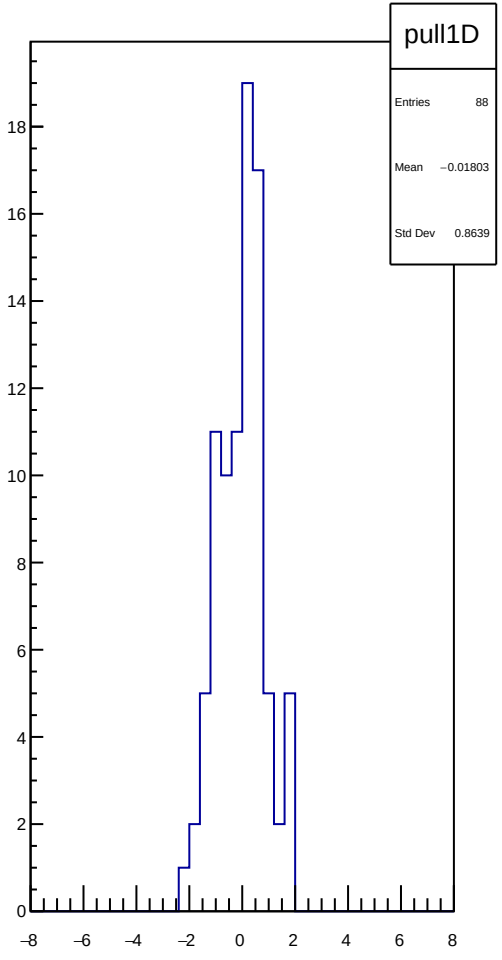

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.324e+04 / 87
p0 5315 ± 4.113
6500
6000
5500
5000
4500
4000

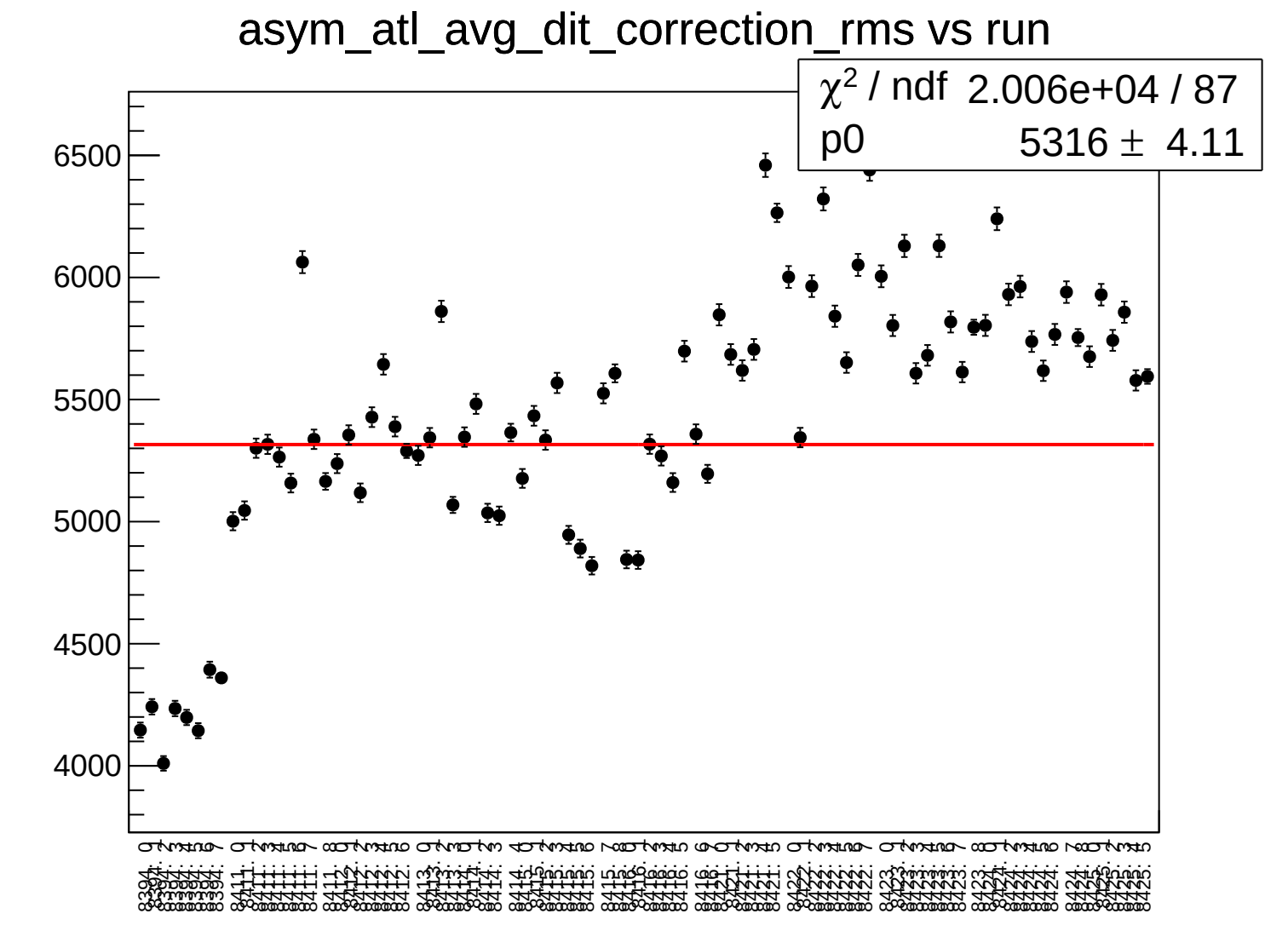

dit_asym_atl_avg_mean vs run
χ² / ndf 80.27 / 87
p0 −1980 ± 1775
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −739
Std Dev 0
2
1
0
−1
−2

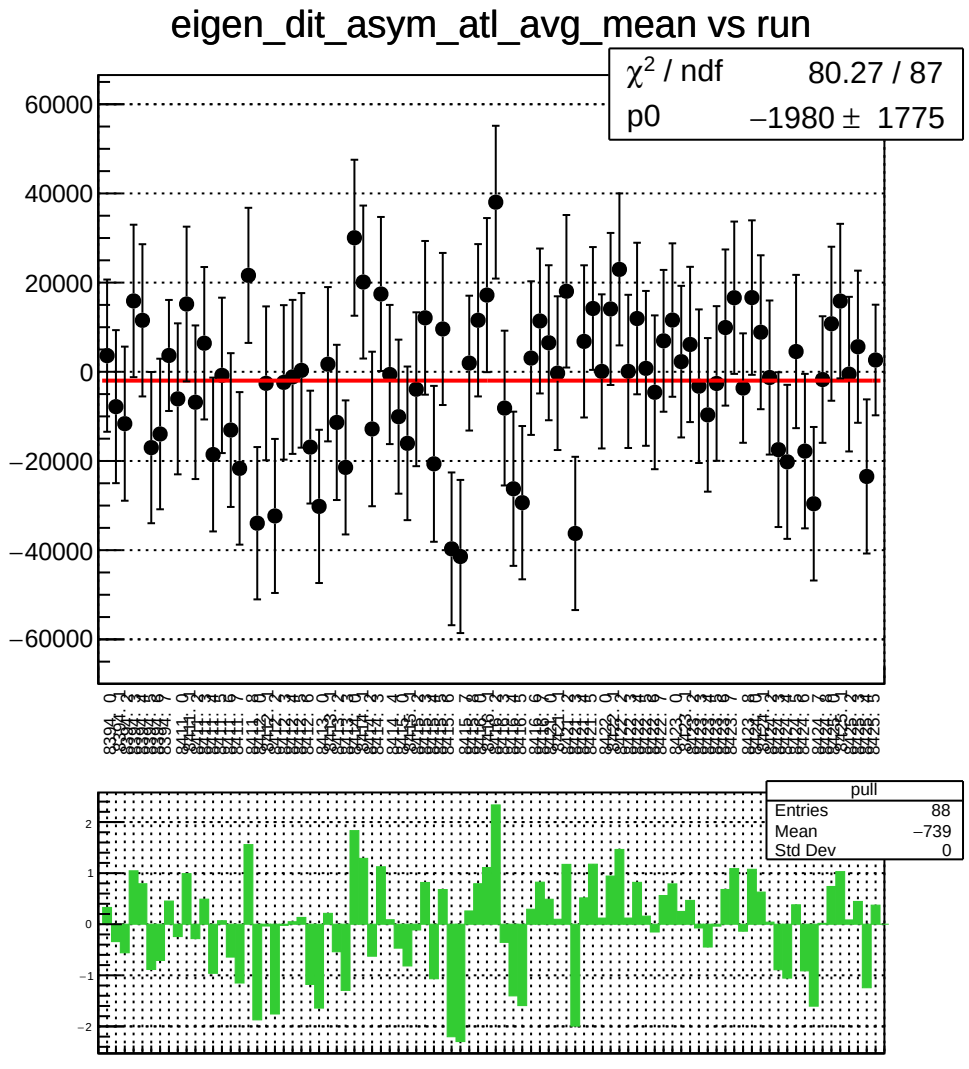

pull1D
Entries 88
Mean −0.003558
Std Dev 0.9551
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

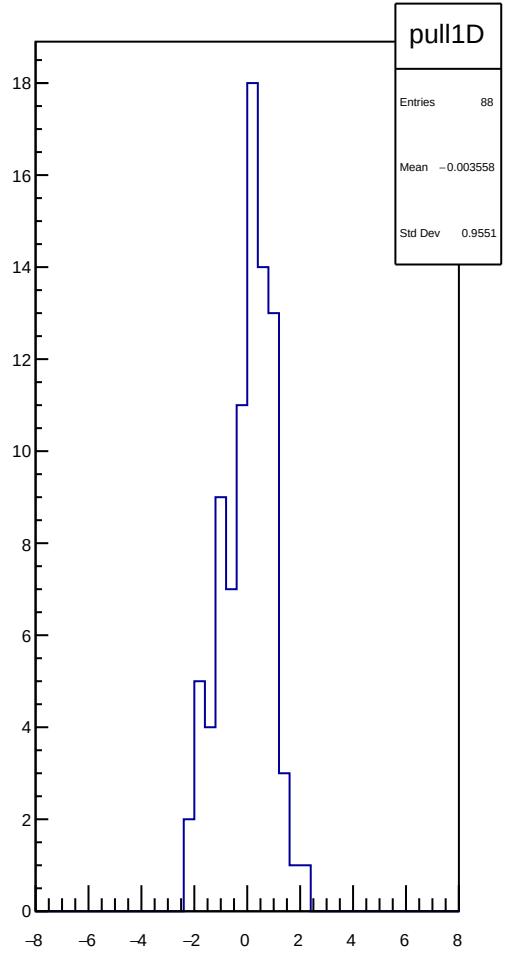

dit_asym_atl_avg_rms vs run
χ^2 / ndf 90.28 / 87
p0 1633 ± 1.255
1680
1660
1640
1620
1600

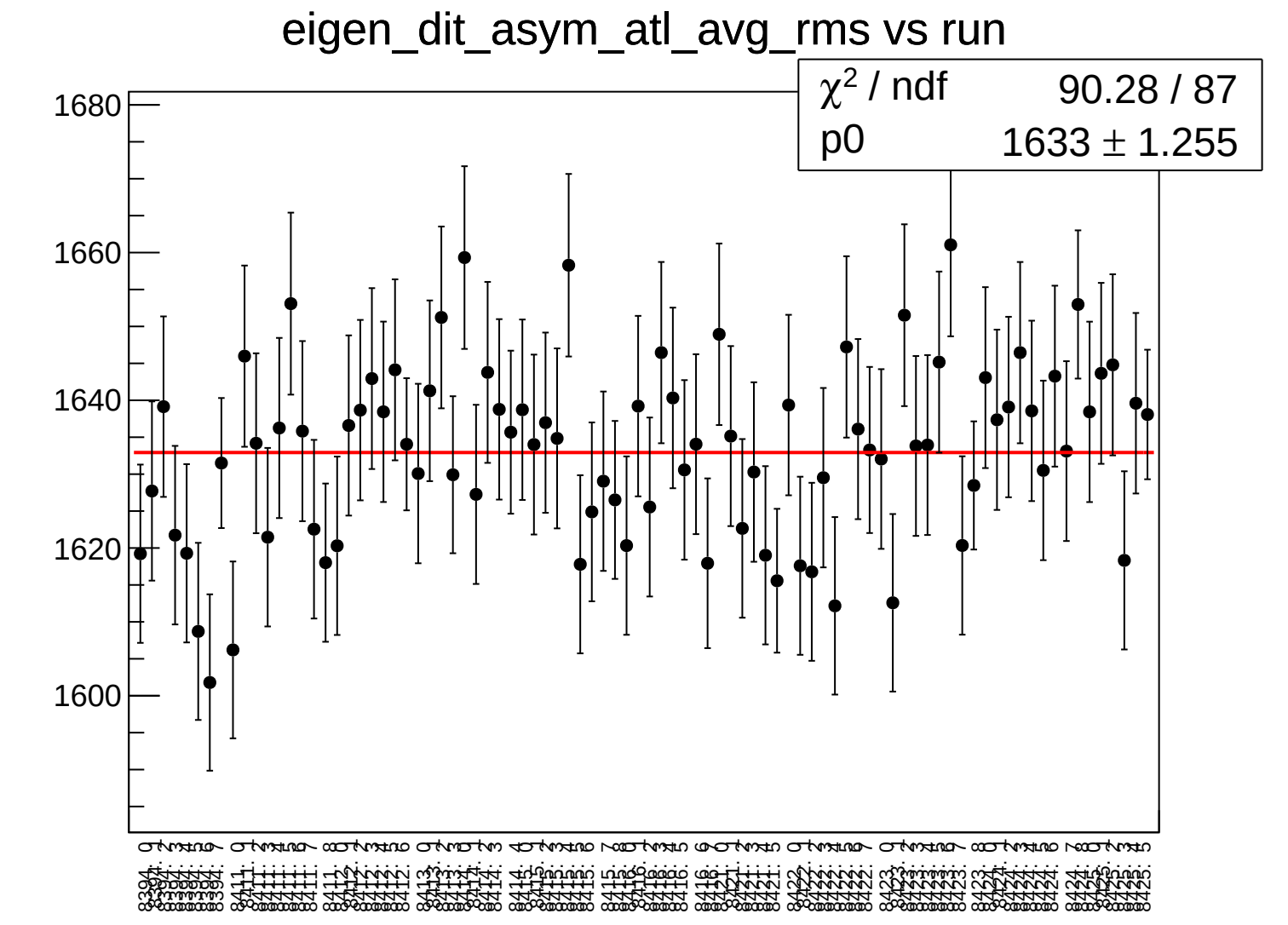

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 65.71 / 87
p0 549.3 ± 5812
pull
Entries 88
Mean −56.72
Std Dev 0

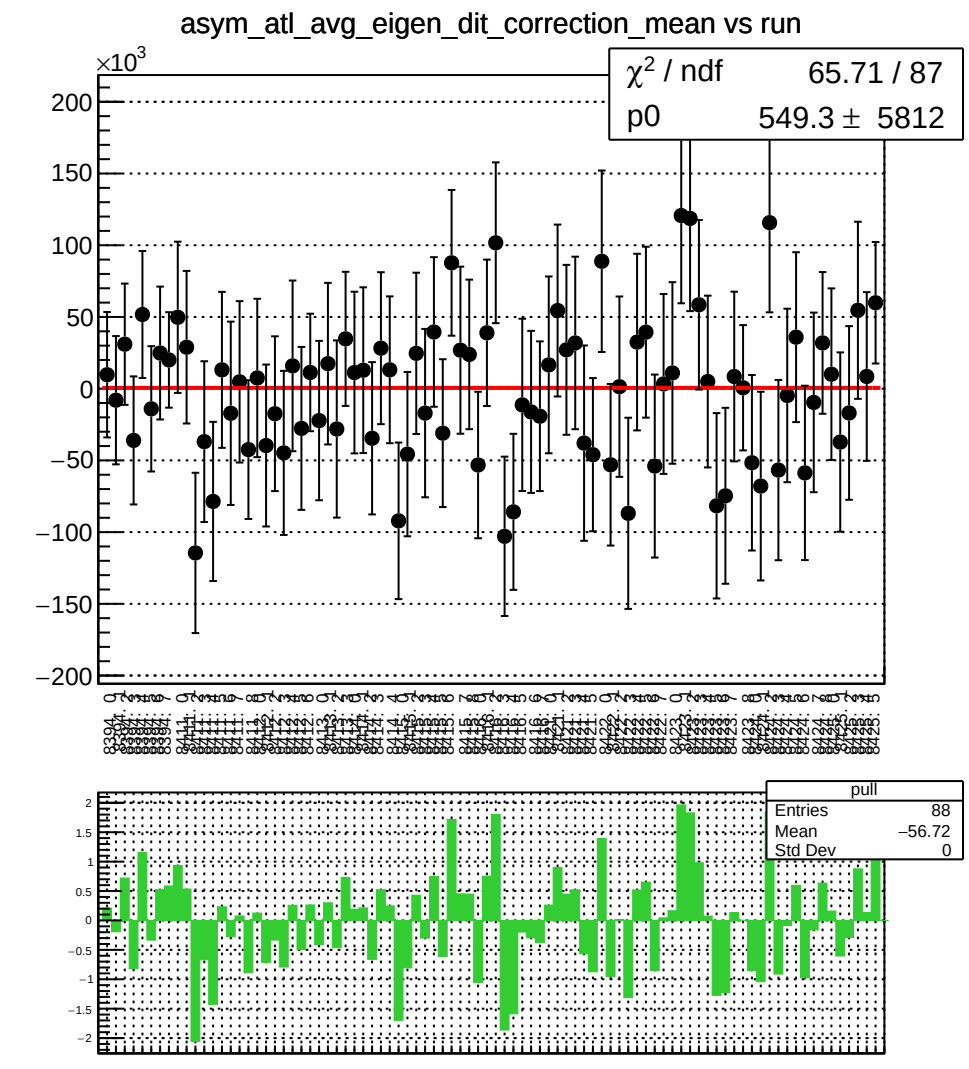

pull1D
Entries 88
Mean −0.01803
Std Dev 0.8639

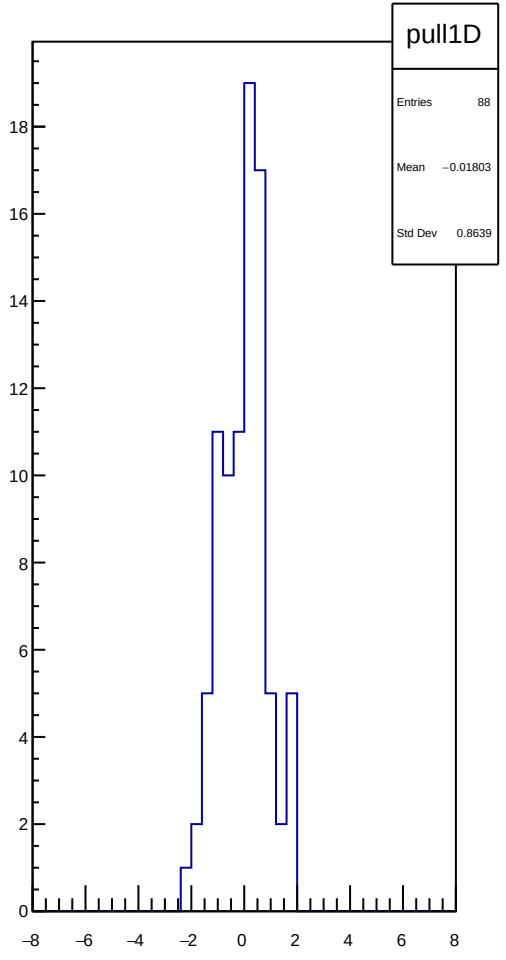

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 2.006e+04 / 87
p0 5316 ± 4.11
6500
6000
5500
5000
4500
4000

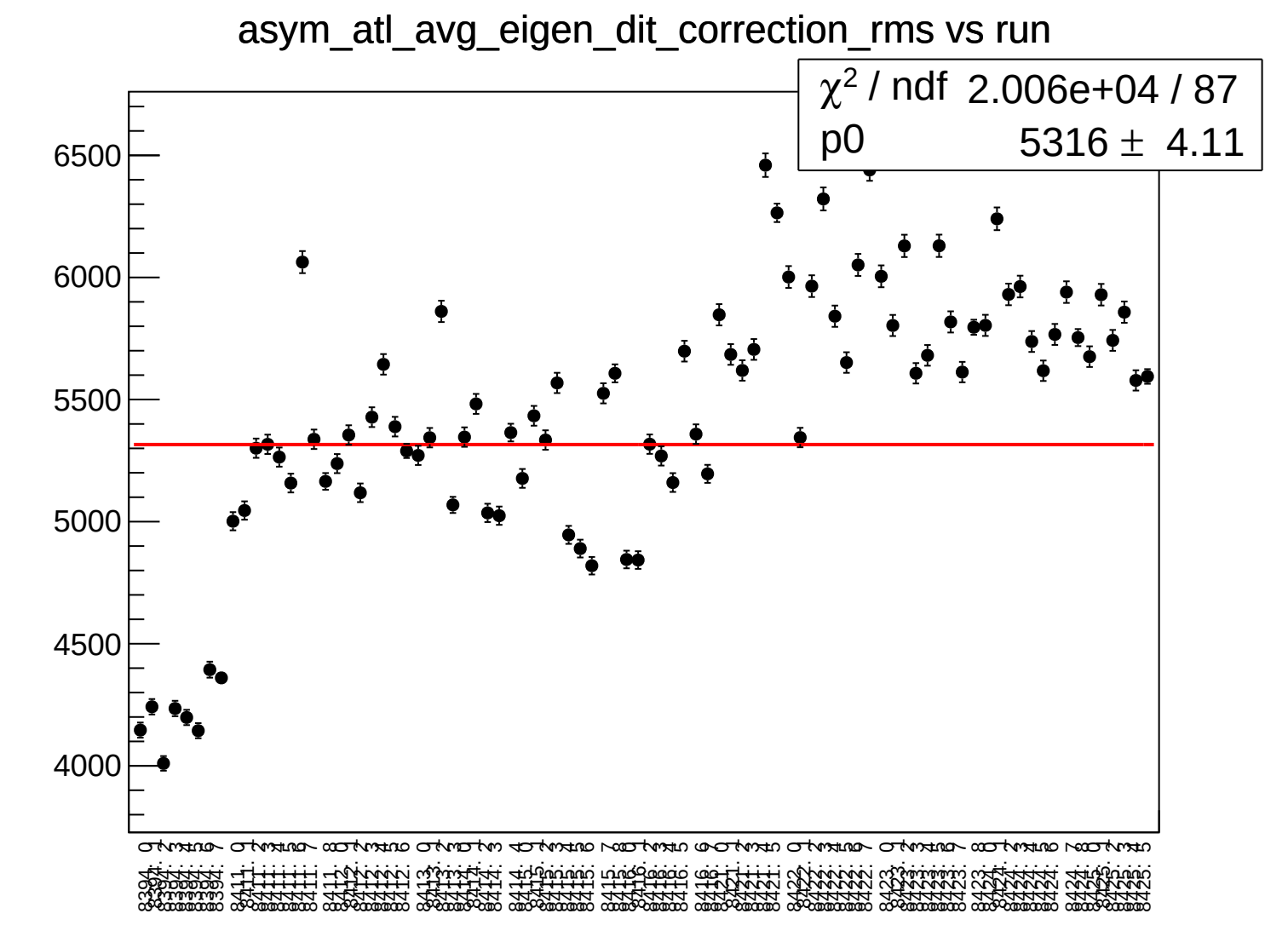

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 80.27 / 87
p0 −1980 ± 1775
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −739
Std Dev 0
2
1
0
−1
−2

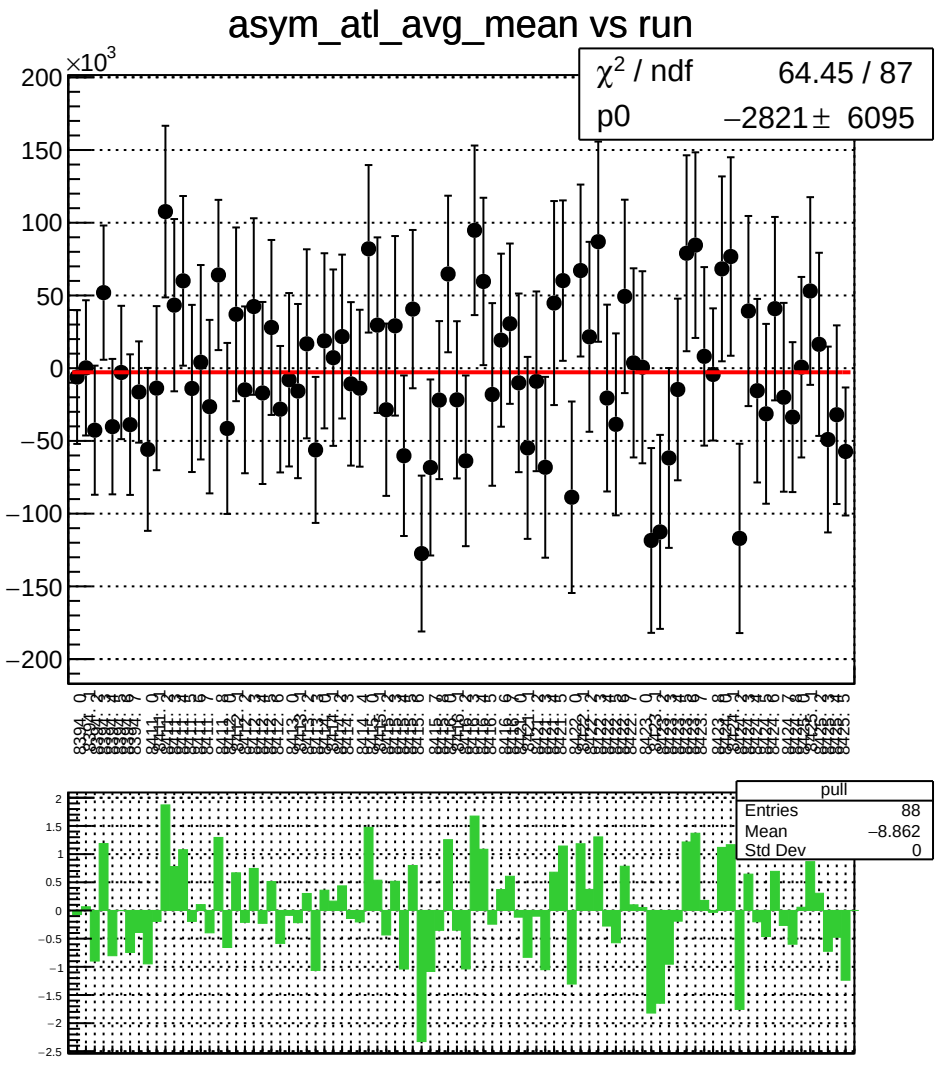

pull1D
Entries 88
Mean −0.003558
Std Dev 0.9551
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

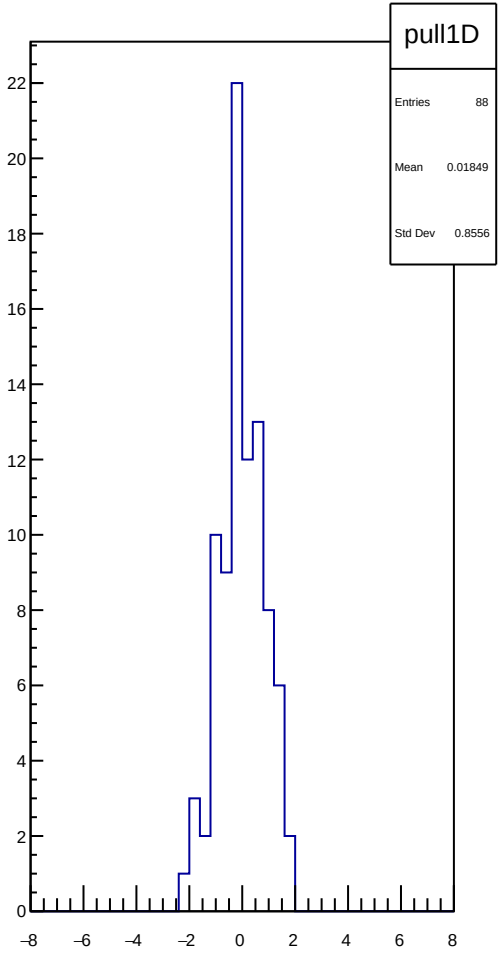

eigen_dit_asym_atl_avg_rms vs run
χ^2 / ndf 90.28 / 87
p0 1633 ± 1.255
1680
1660
1640
1620
1600

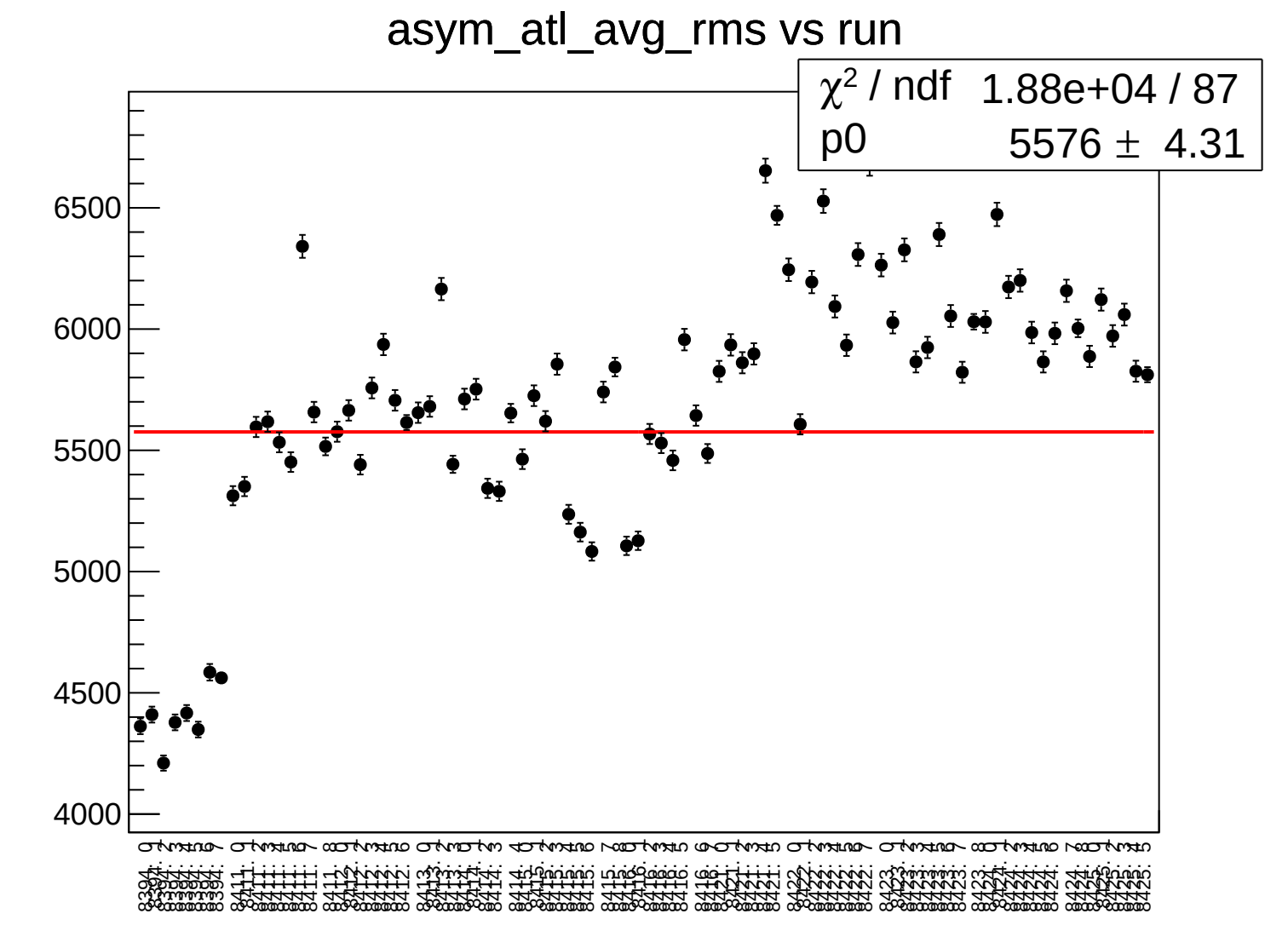

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 65.71 / 87
p0 549.3 ± 5812
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −56.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

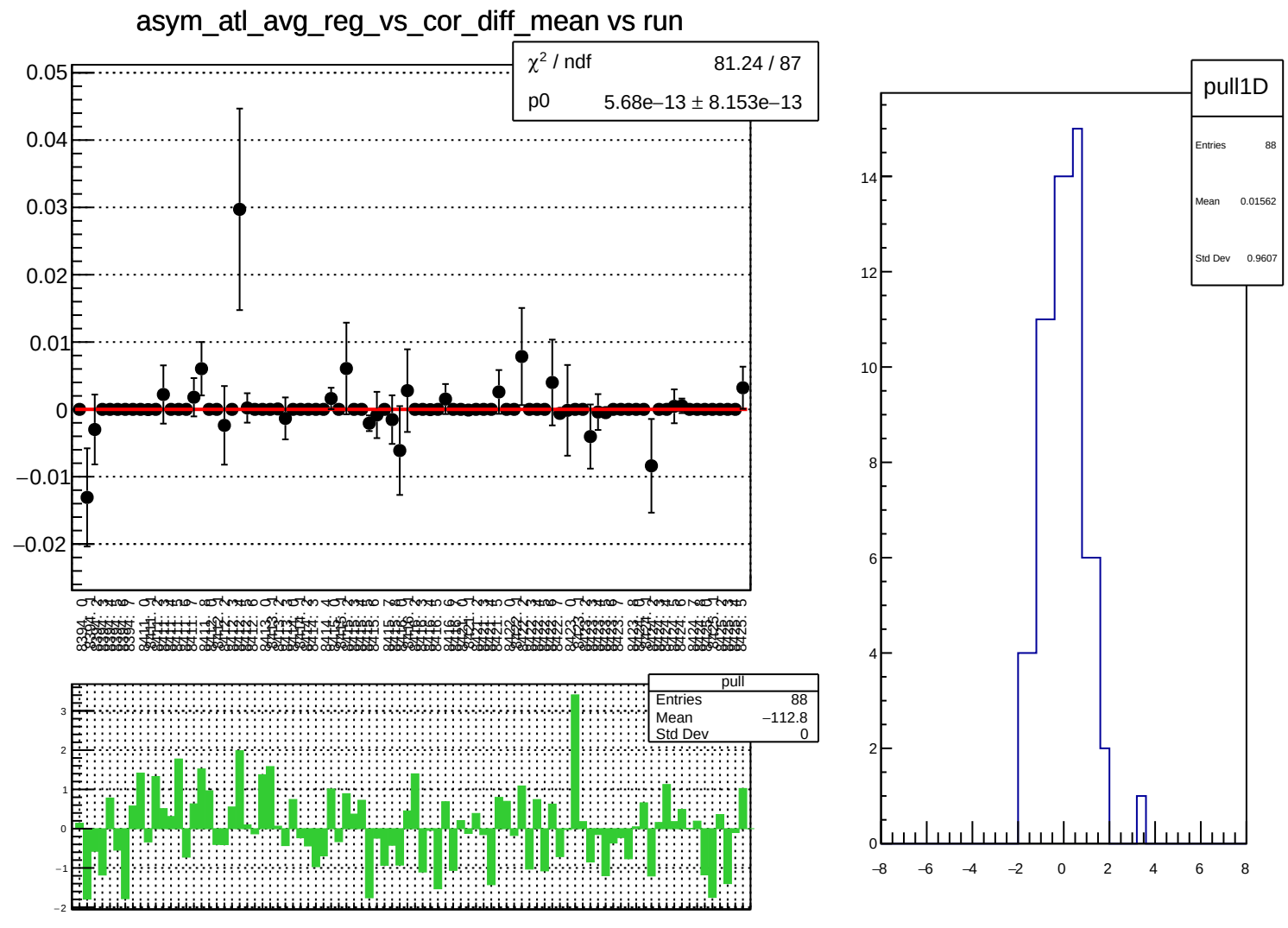

pull1D
Entries 88
Mean −0.01803
Std Dev 0.8639
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

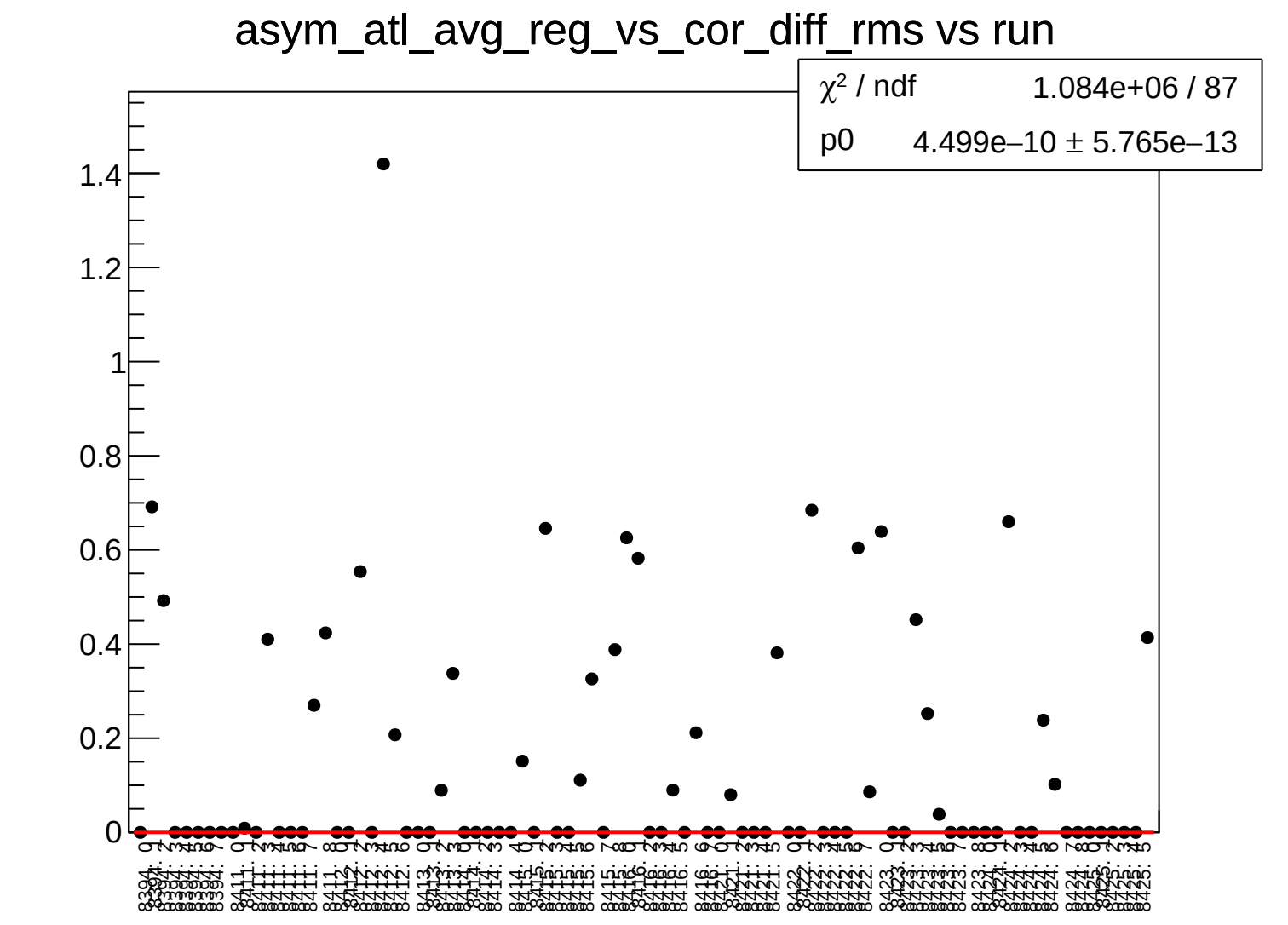

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.006e+04 / 87
p0 5316 ± 4.11
6500
6000
5500
5000
4500
4000

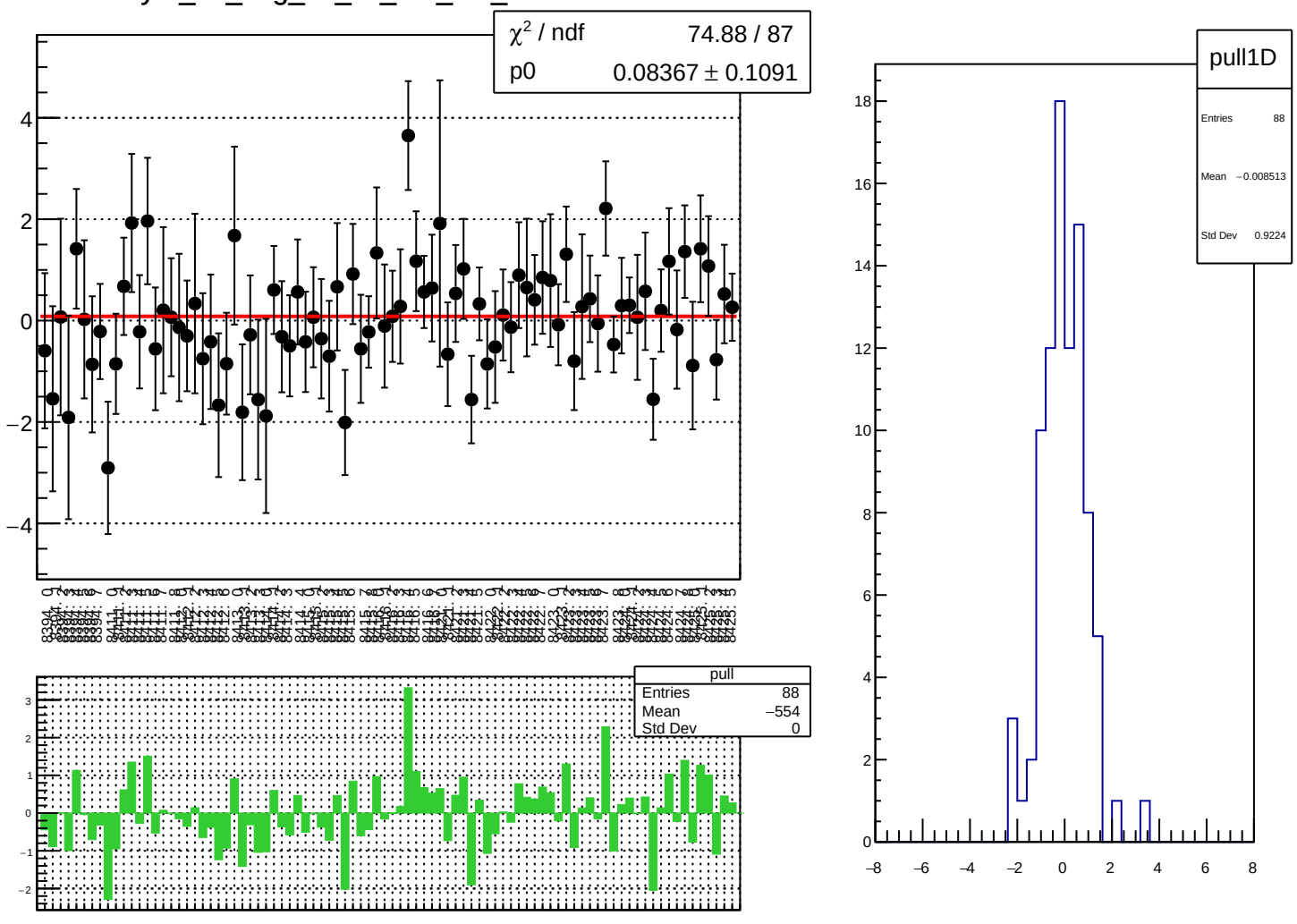

asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 64.45 / 87
p0 −2821 ± 6095
pull
Entries 88
Mean −8.862
Std Dev 0

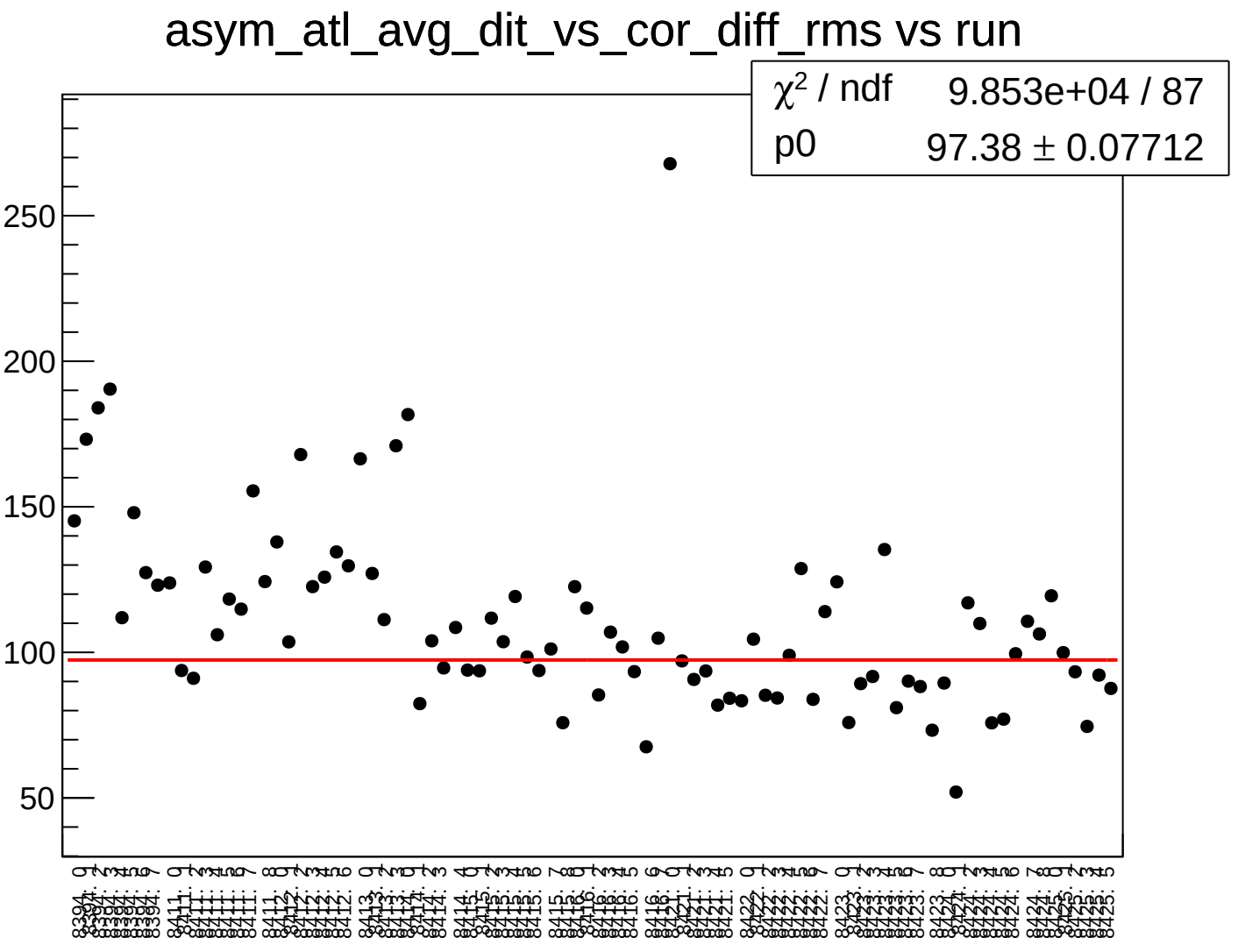

pull1D
Entries 88
Mean 0.01849
Std Dev 0.8556

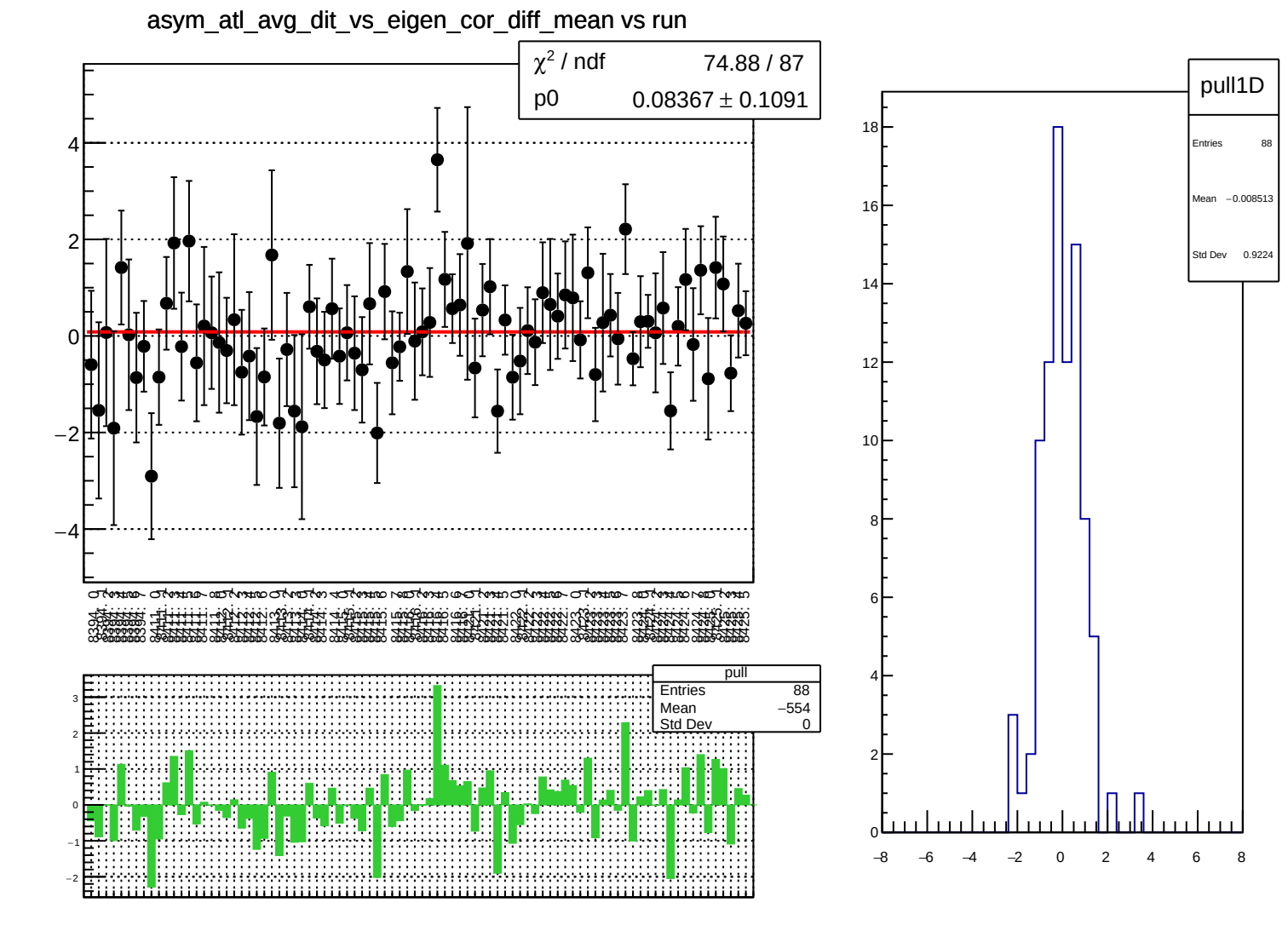

asym_atl_avg_rms vs run
χ² / ndf 1.88e+04 / 87
p0 5576 ± 4.31
6500
6000
5500
5000
4500
4000

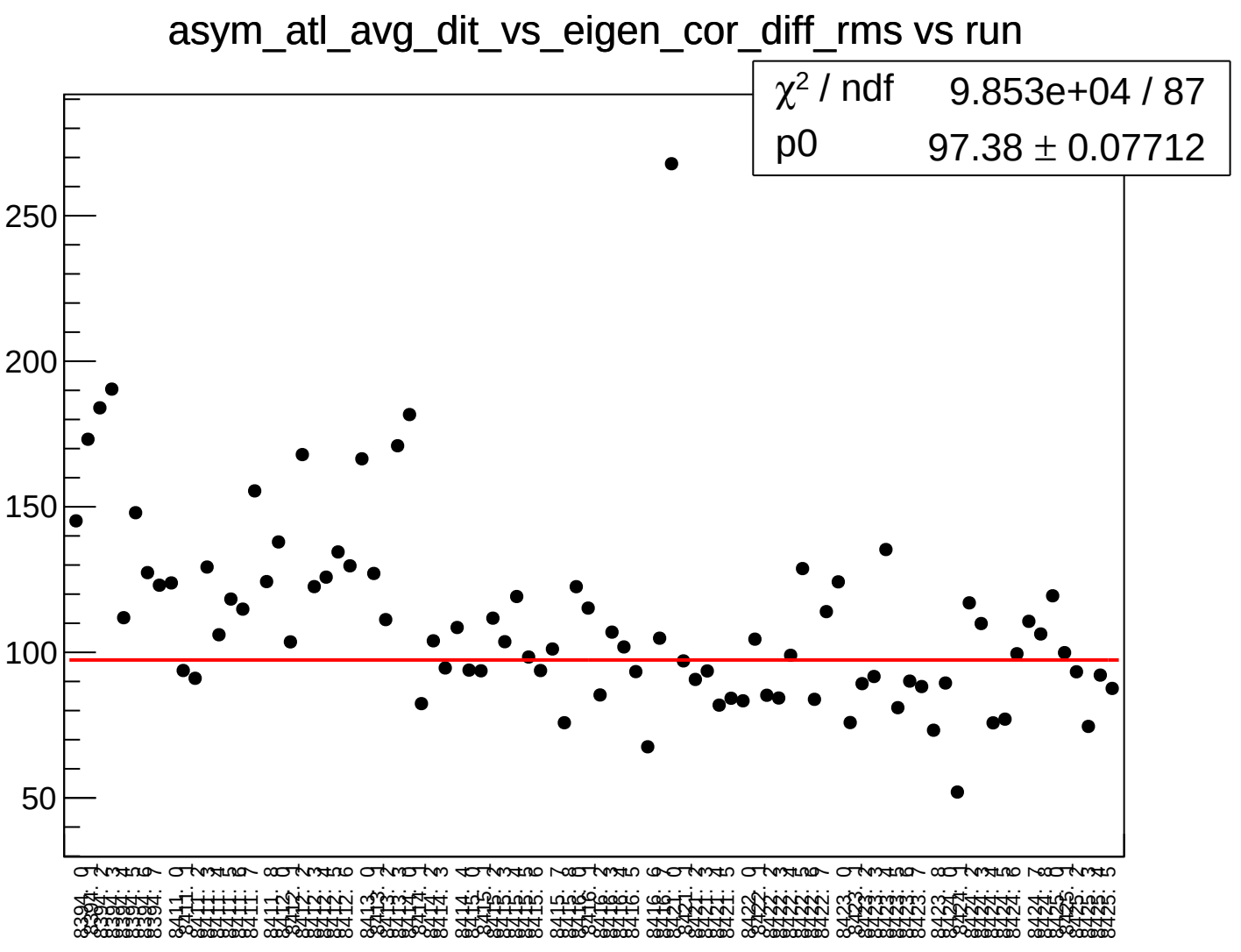

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.24 / 87
p0 5.68e−13 ± 8.153e−13
pull
Entries 88
Mean −112.8
Std Dev 0
pull1D
Entries 88
Mean 0.01562
Std Dev 0.9607

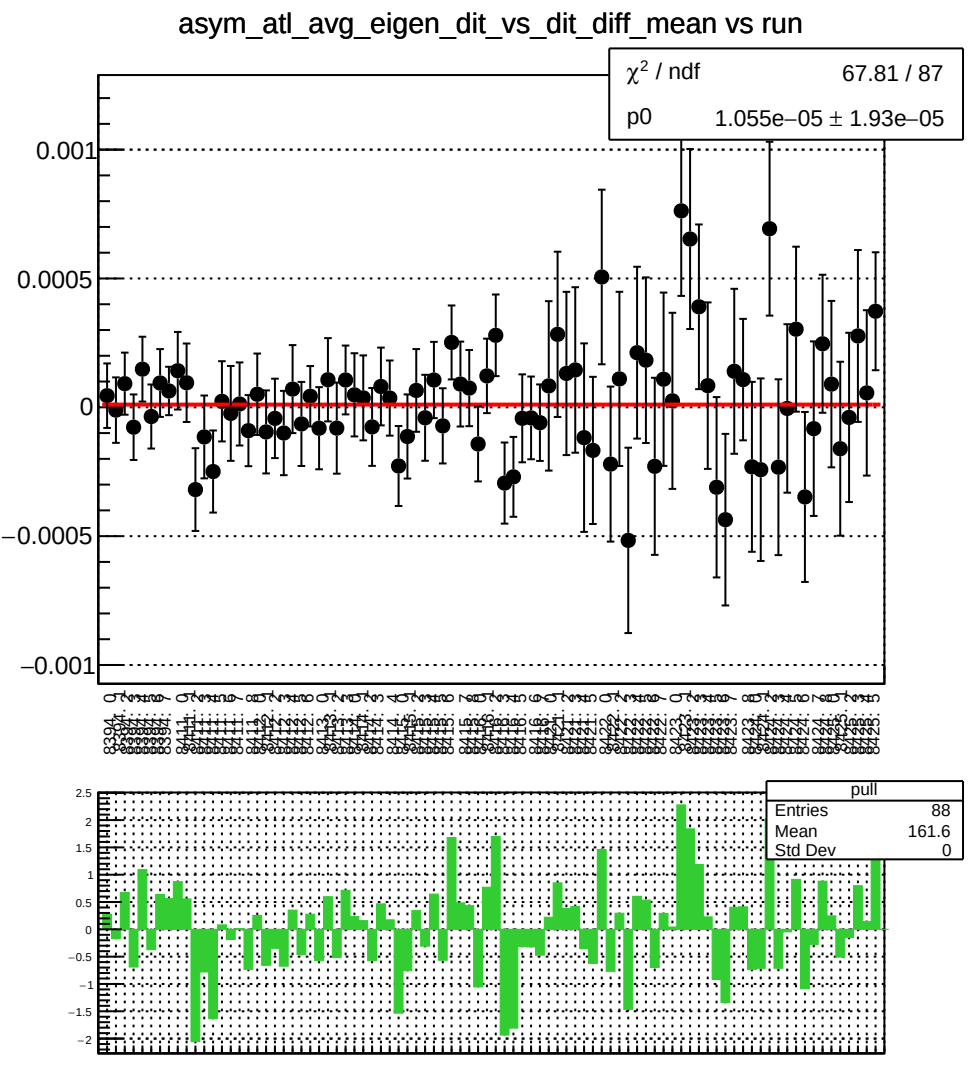

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.084e+06 / 87
p0 4.499e−10 ± 5.765e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

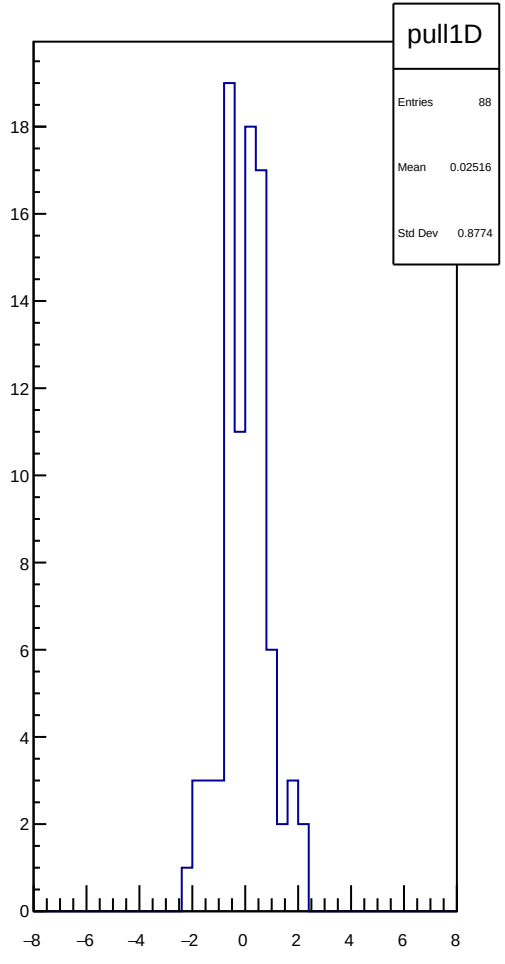

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ^2 / ndf 74.88 / 87
p0 0.08367 ± 0.1091
pull
Entries 88
Mean −554
Std Dev 0
pull1D
Entries 88
Mean −0.008513
Std Dev 0.9224

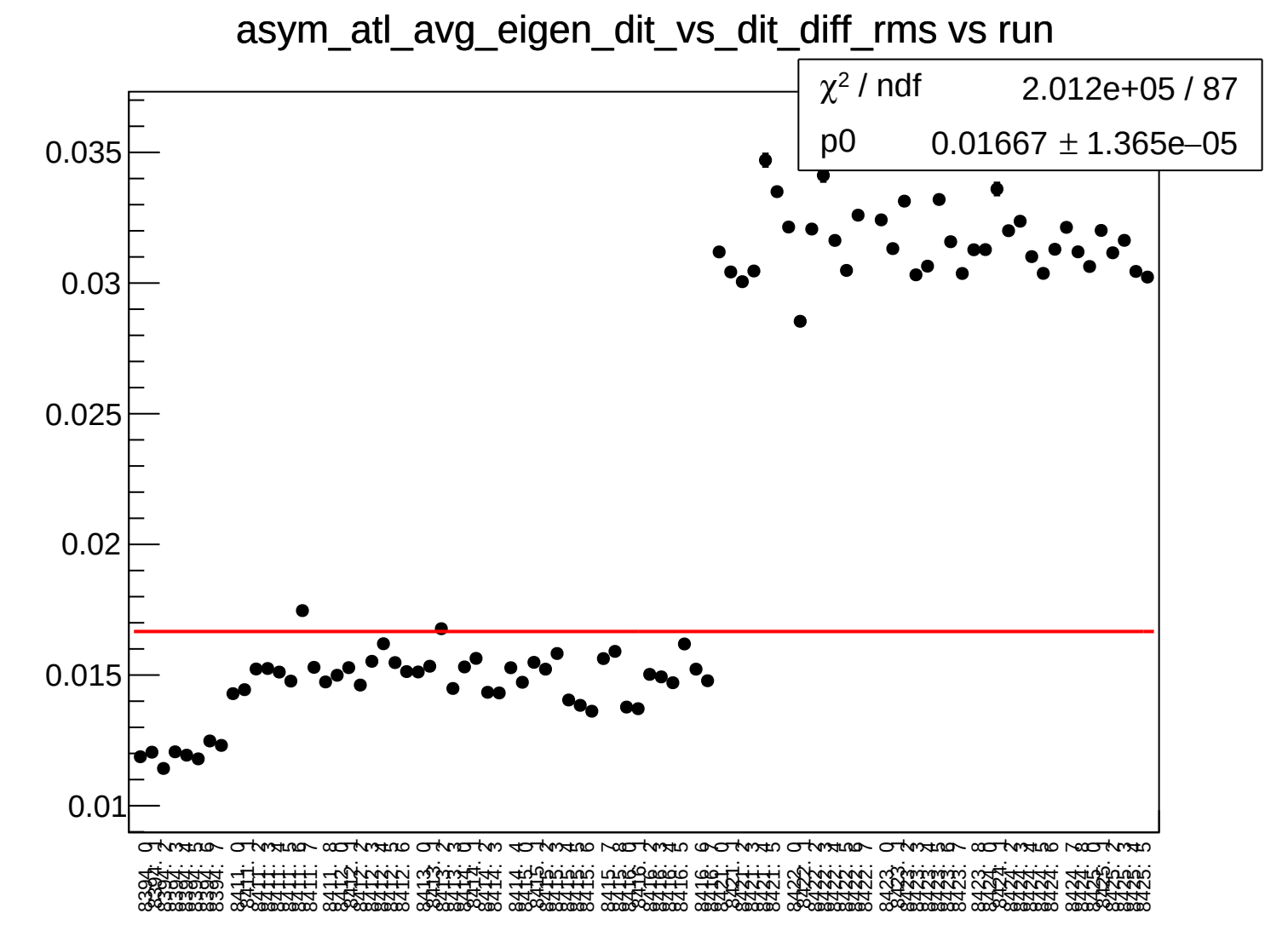

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.853e+04 / 87
p0 97.38 ± 0.07712
250
200
150
100
50


asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.88 / 87
p0 0.08367 ± 0.1091
pull
Entries 88
Mean −554
Std Dev 0
pull1D
Entries 88
Mean −0.008513
Std Dev 0.9224

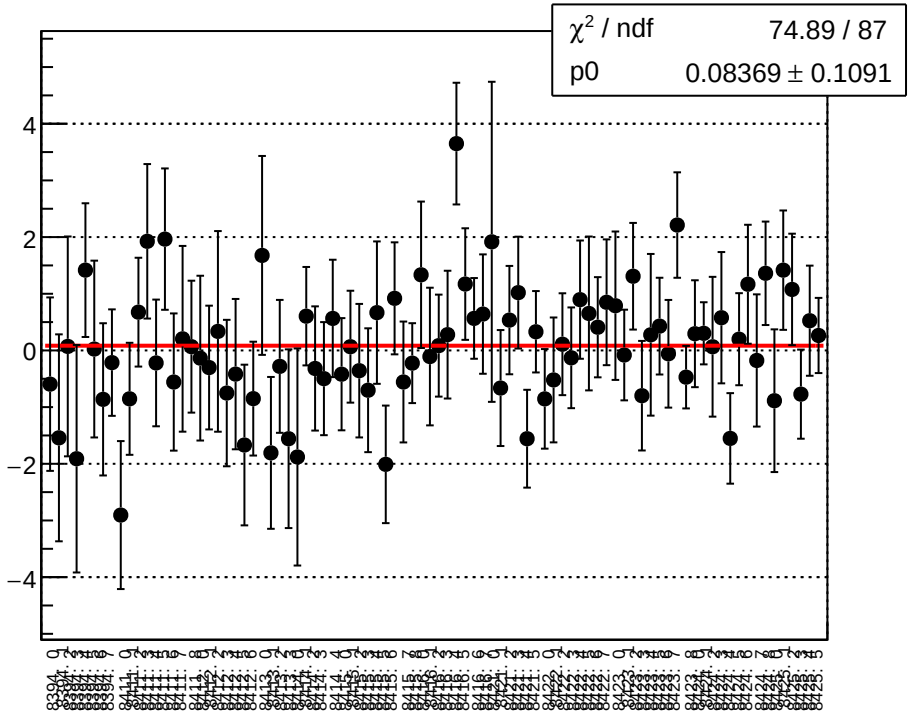

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.853e+04 / 87
p0 97.38 ± 0.07712
250
200
150
100
50

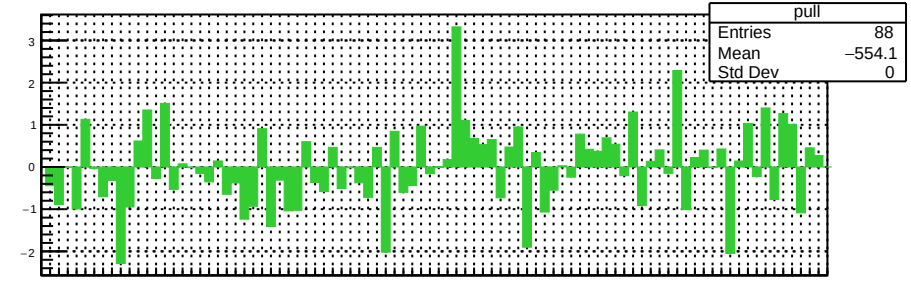

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 67.81 / 87
p0 1.055e−05 ± 1.93e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean 161.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

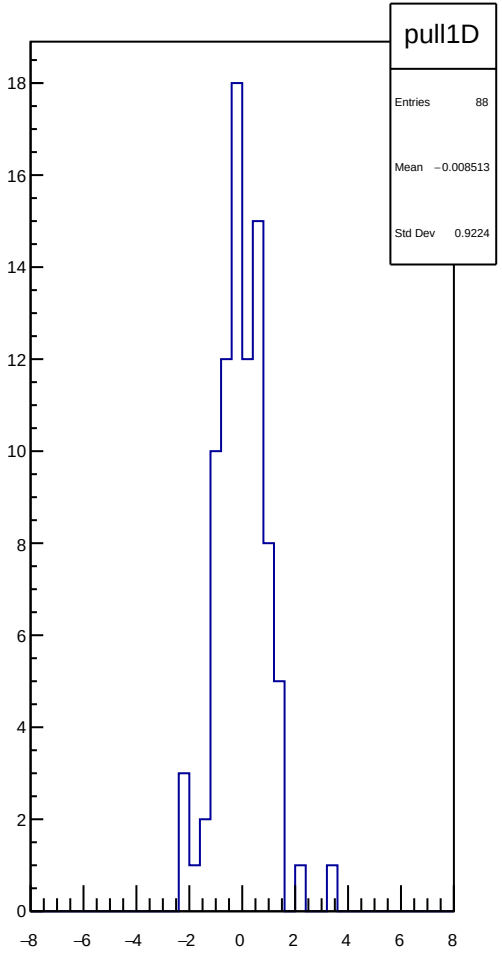

pull1D
Entries 88
Mean 0.02516
Std Dev 0.8774
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

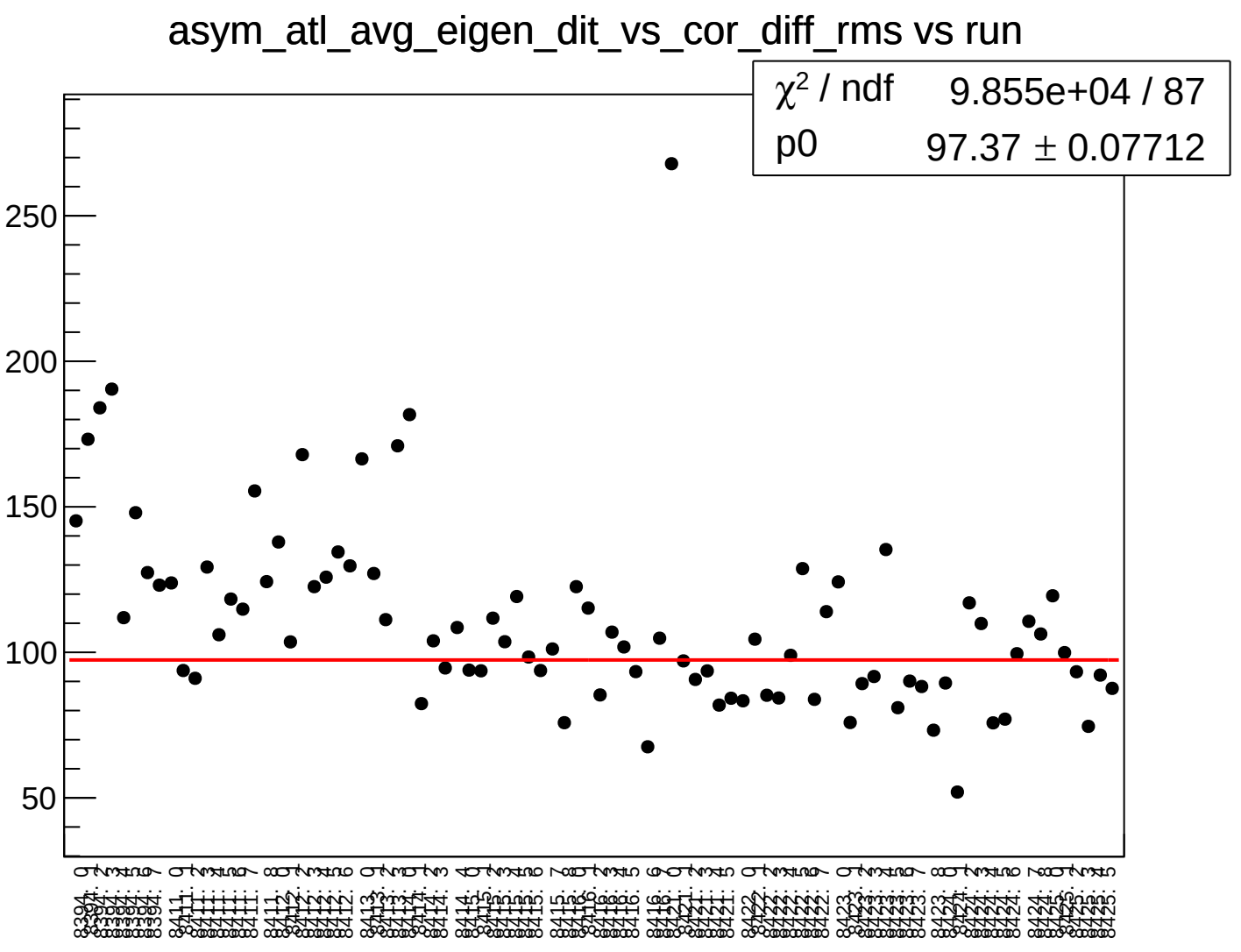

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.012e+05 / 87
p0 0.01667 ± 1.365e−05
0.035
0.03
0.025
0.02
0.015
0.01

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run

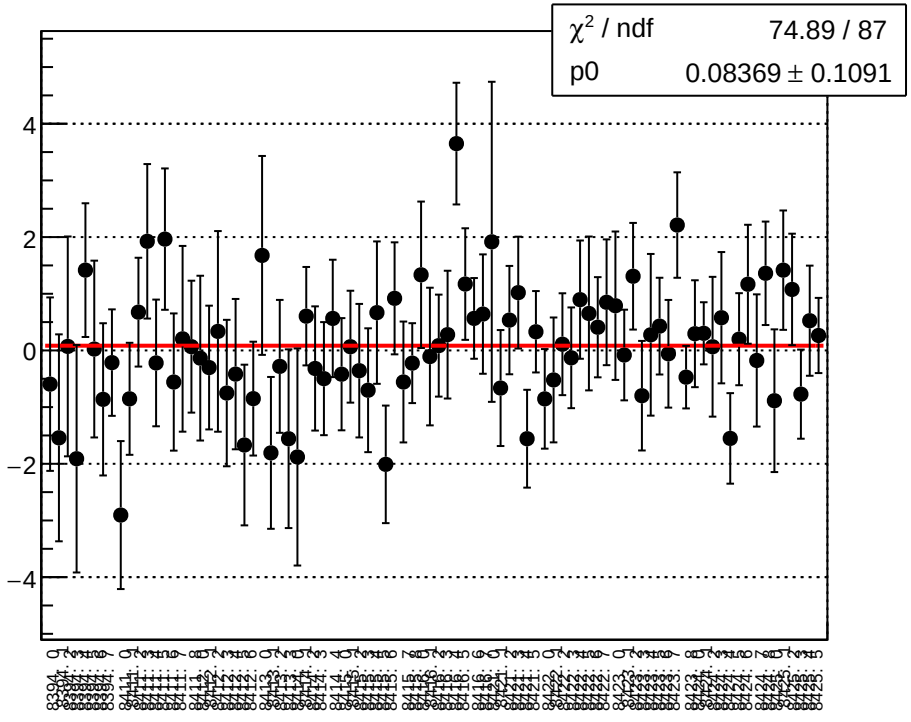


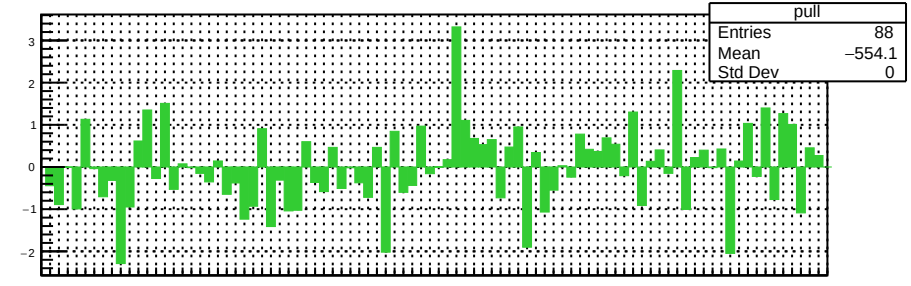


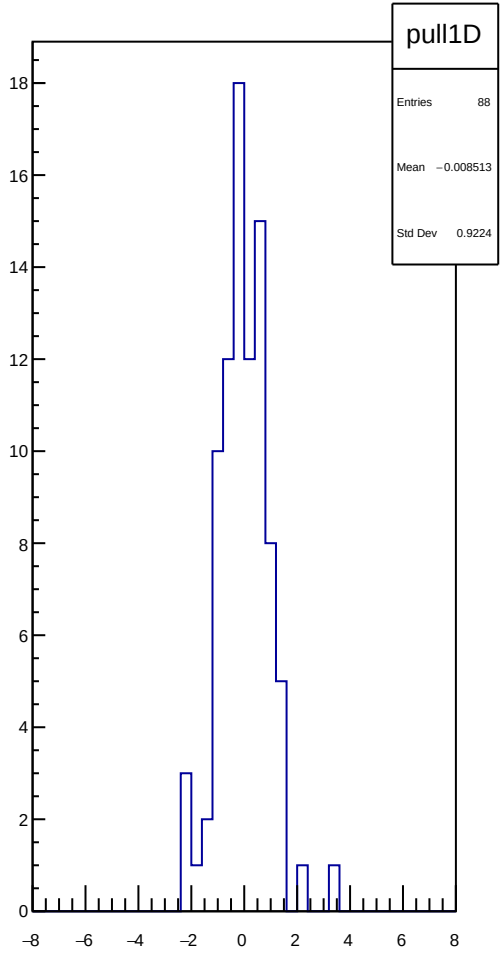


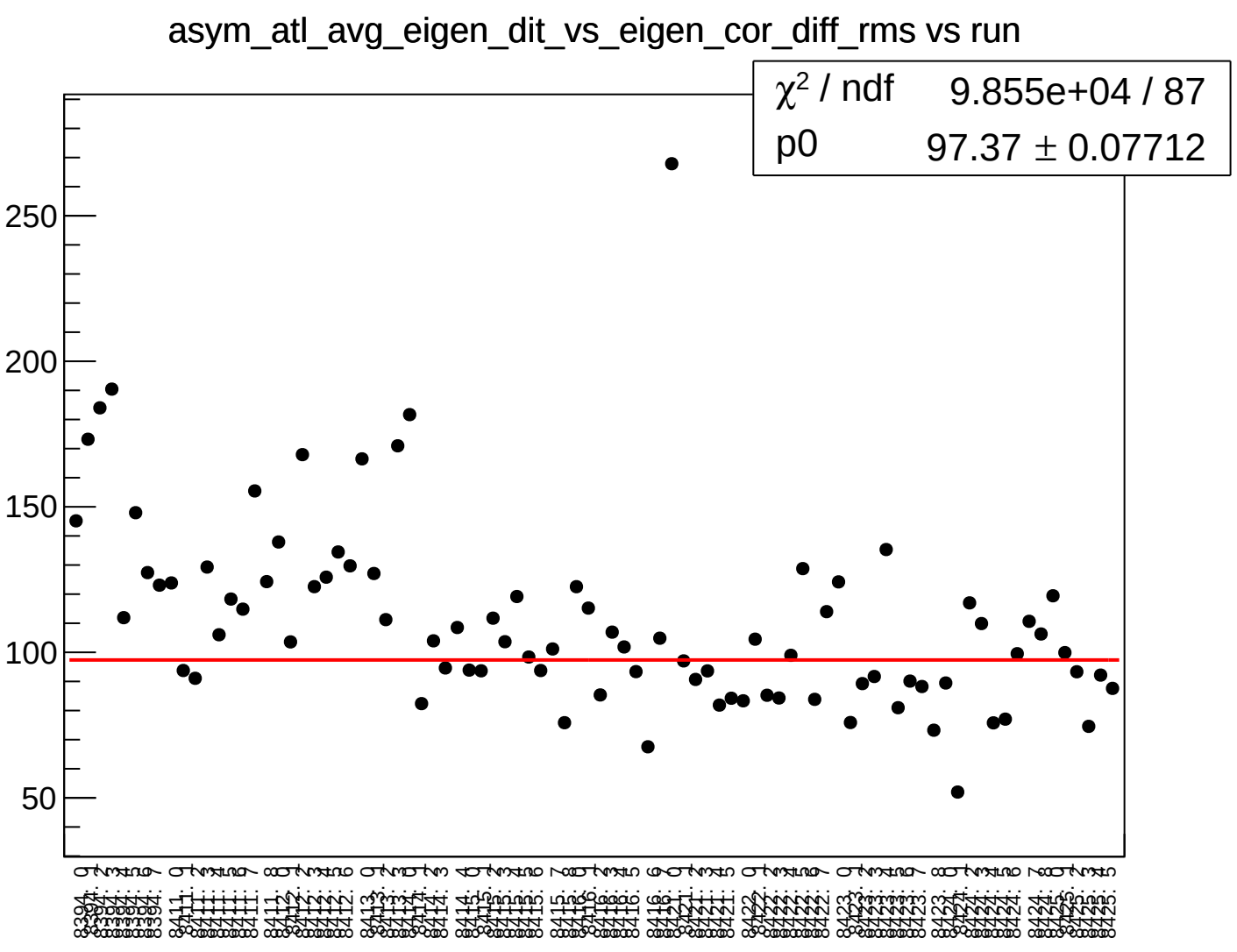

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.855e+04 / 87
p0 97.37 ± 0.07712
250
200
150
100
50

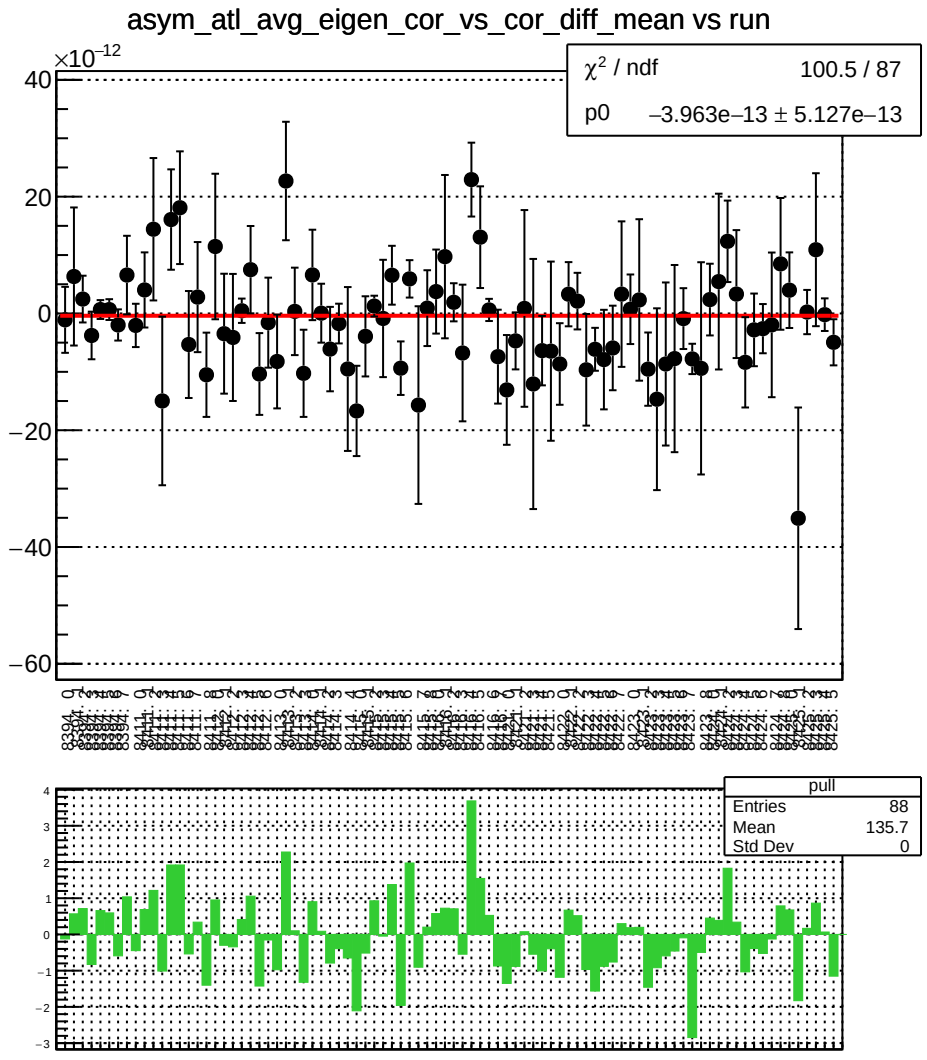
asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run

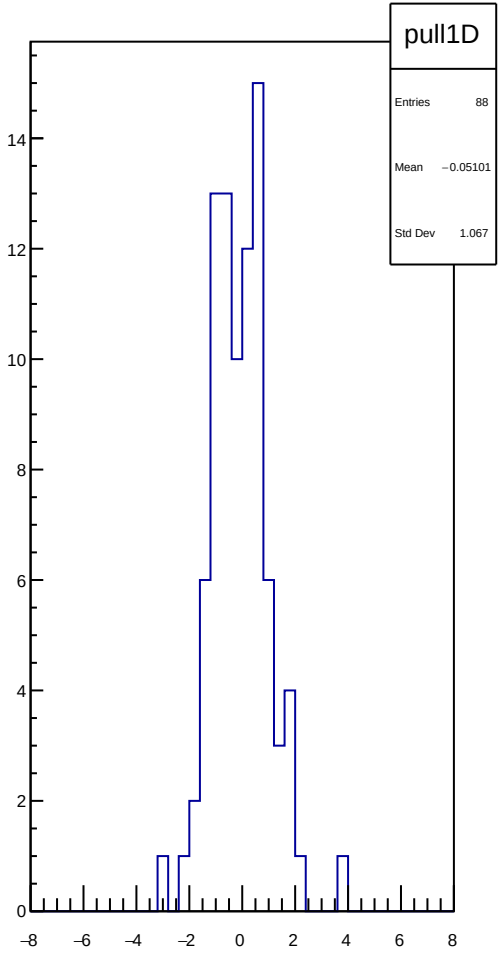


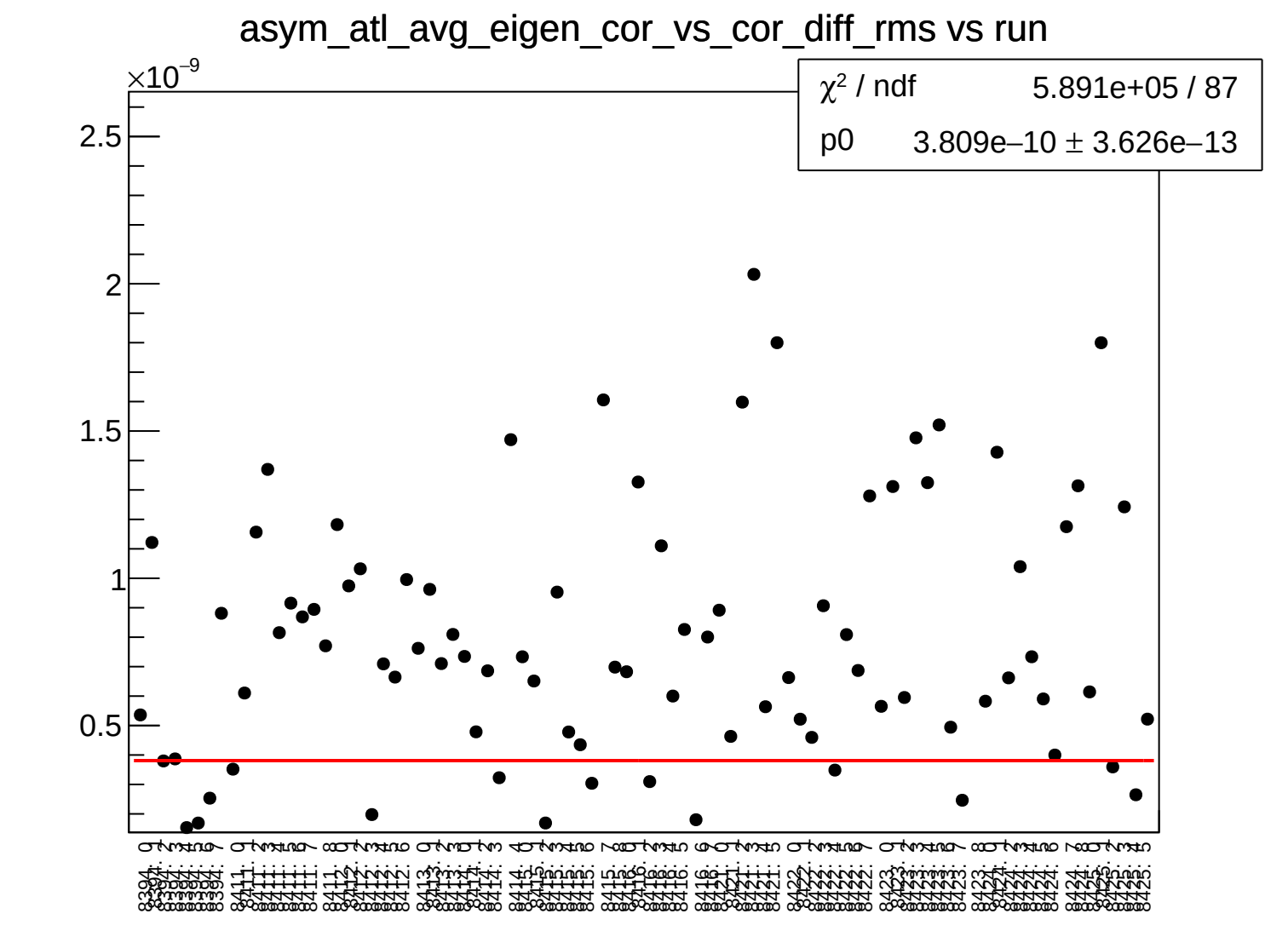


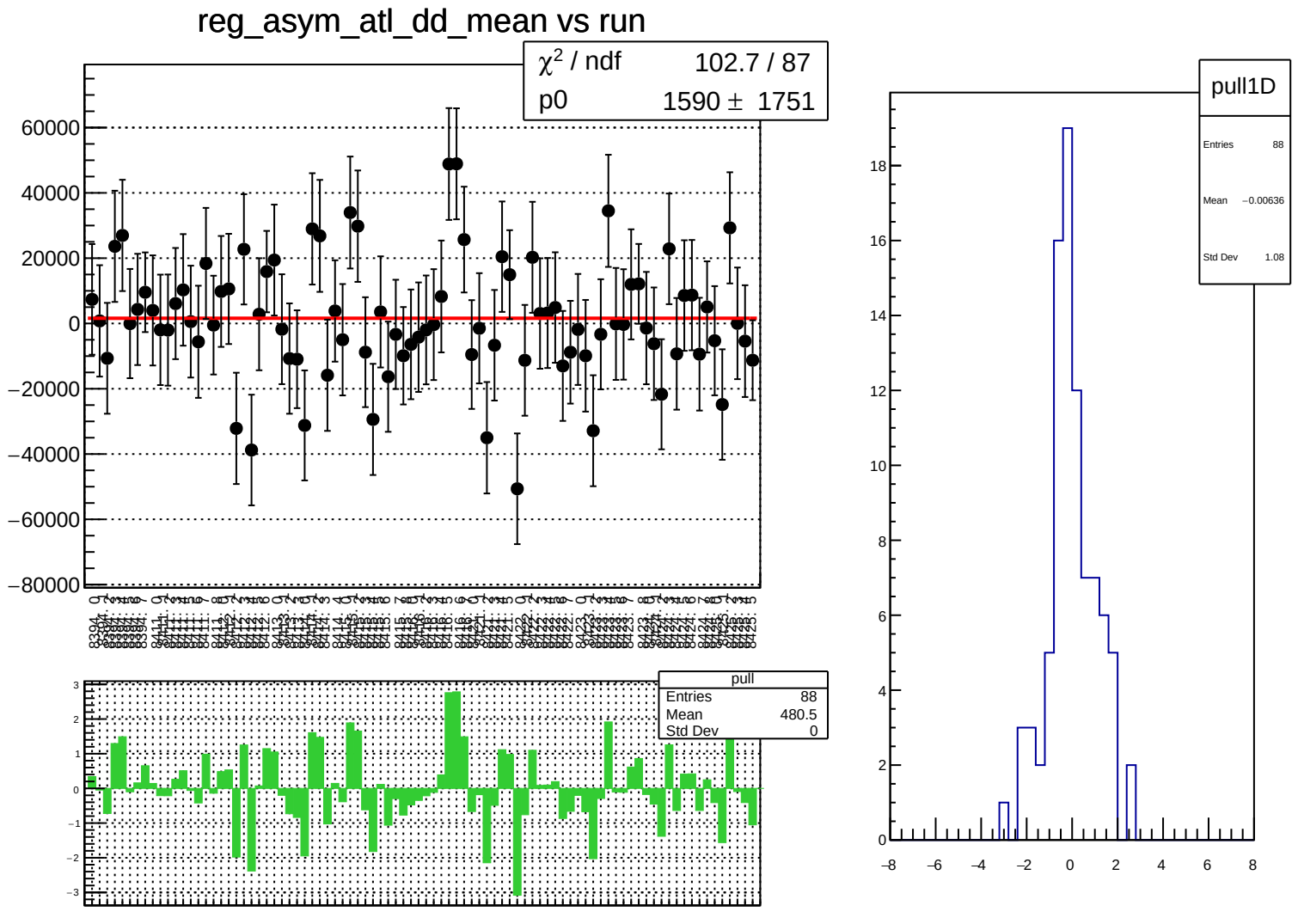


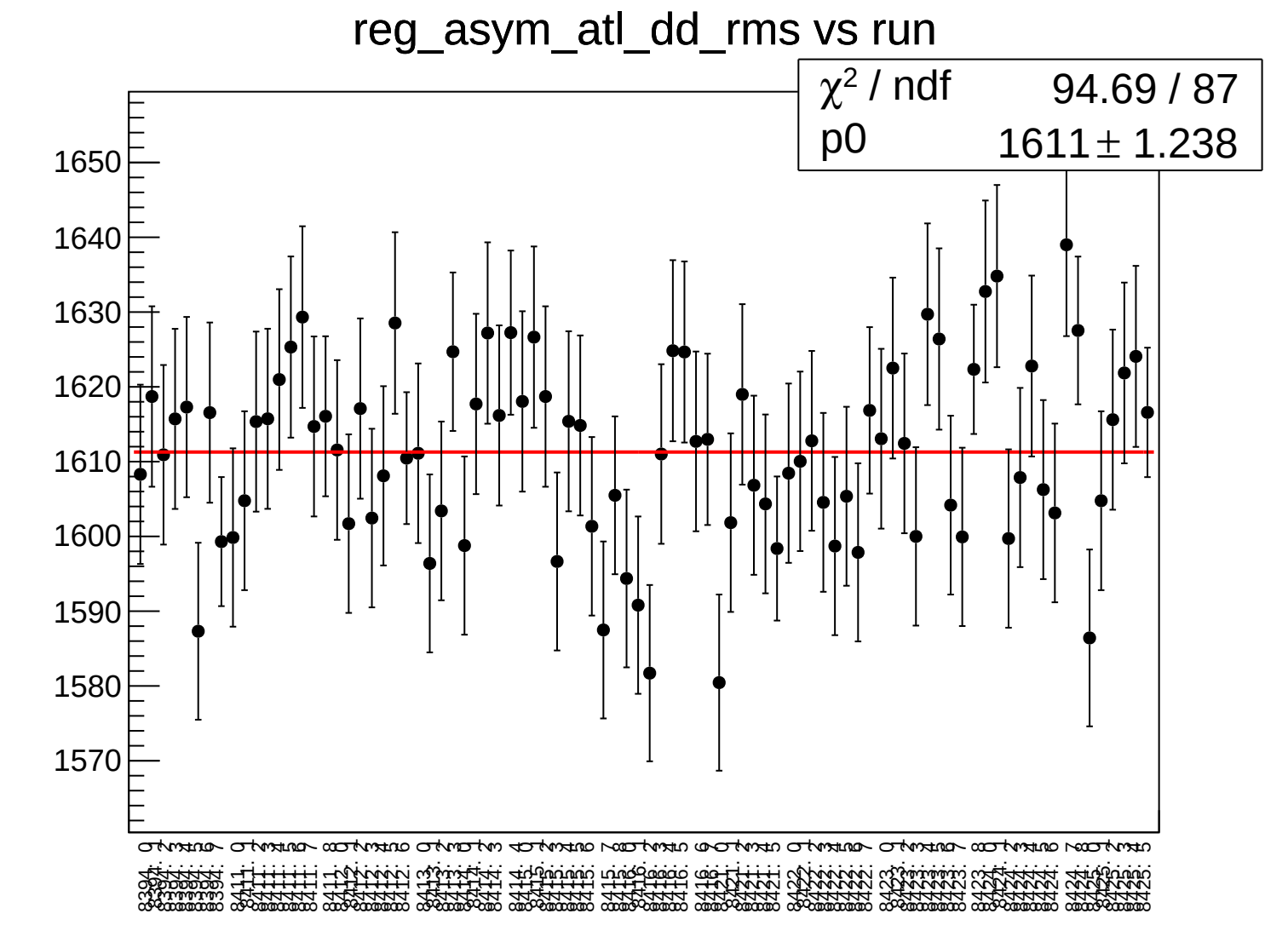

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.855e+04 / 87
p0 97.37 ± 0.07712
250
200
150
100
50

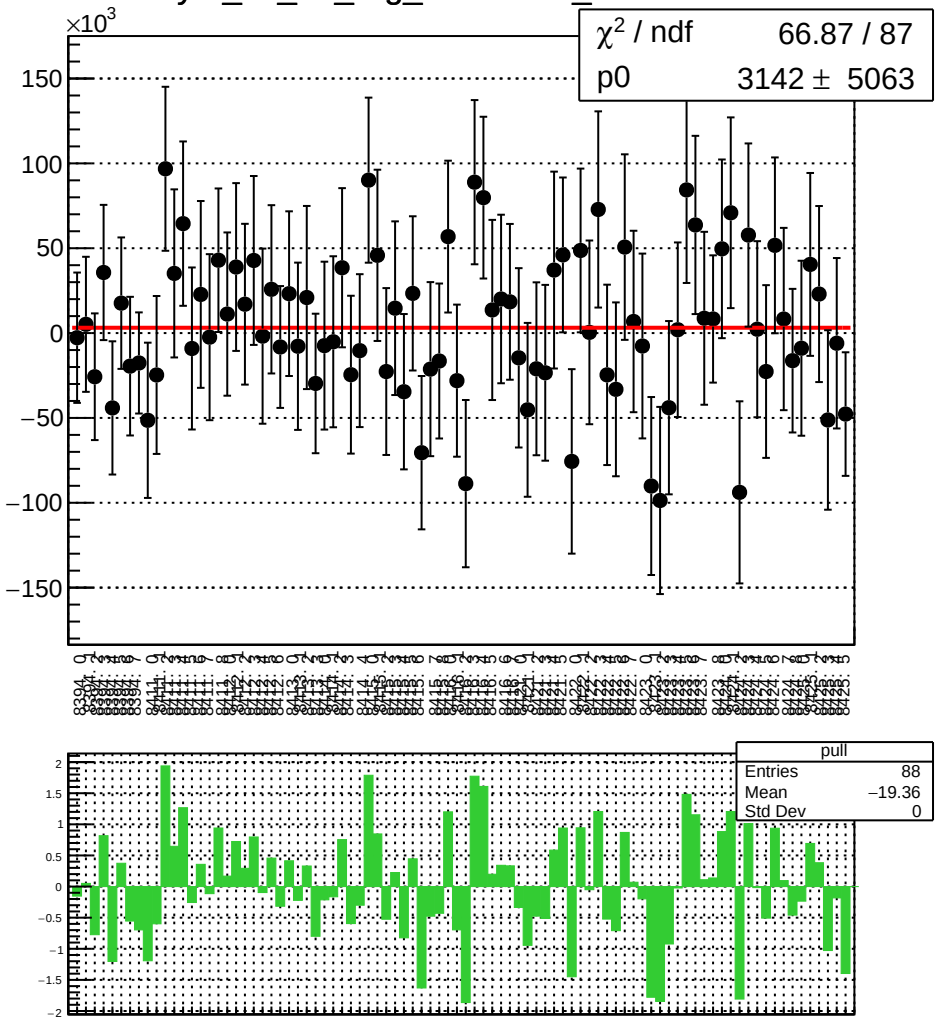

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.5 / 87
p0 −3.963e−13 ± 5.127e−13
pull
Entries 88
Mean 135.7
Std Dev 0

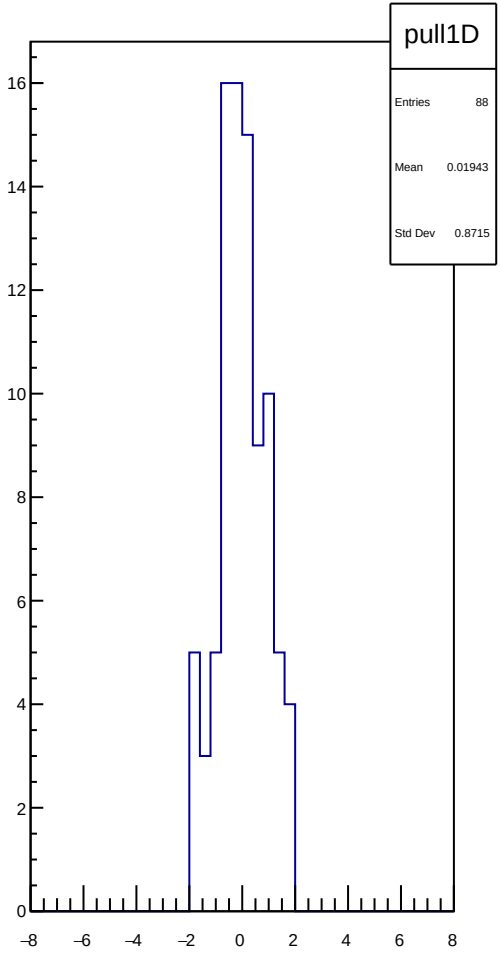

pull1D
Entries 88
Mean −0.05101
Std Dev 1.067

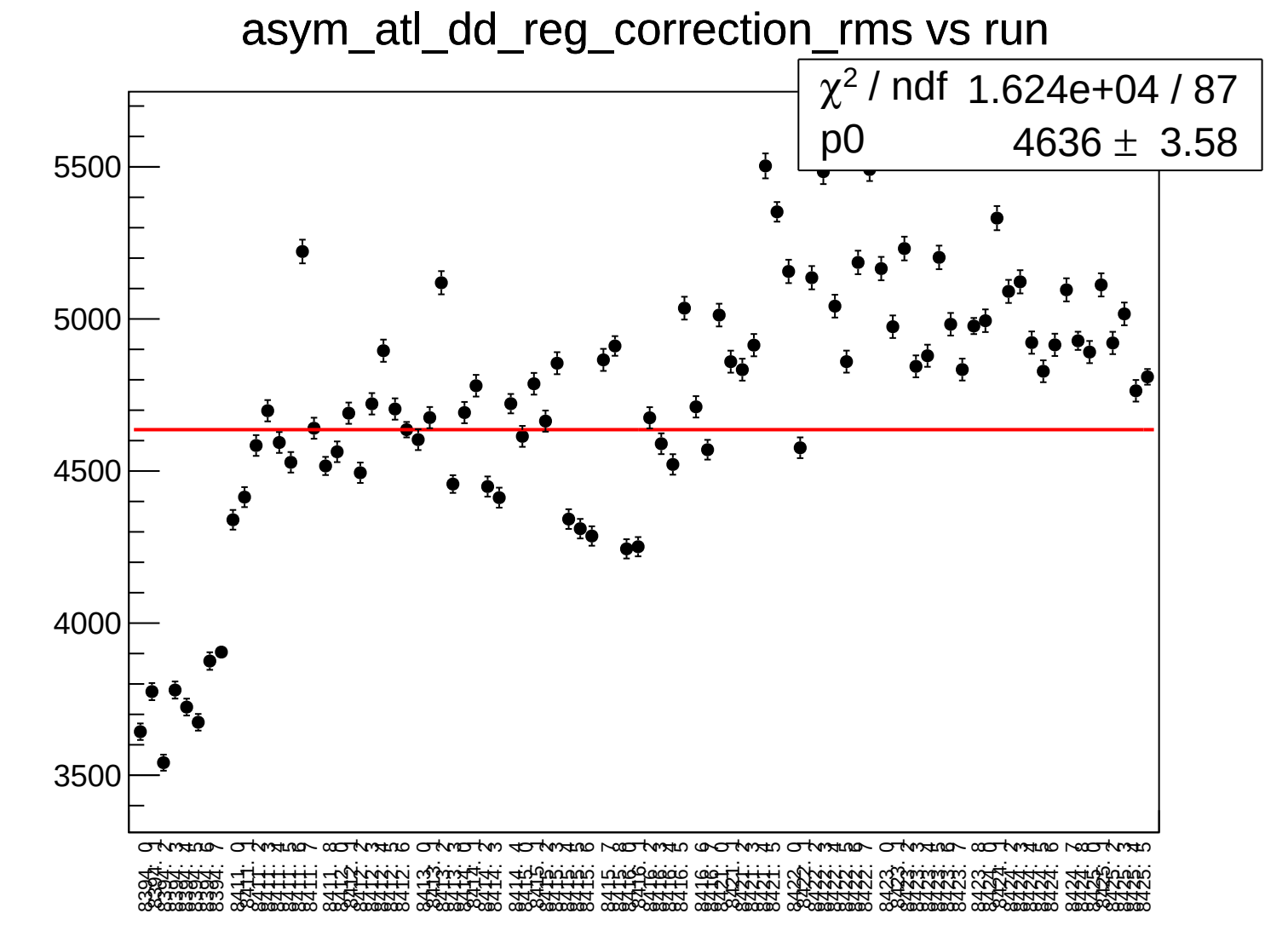

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.891e+05 / 87
p0 3.809e−10 ± 3.626e−13
2.5
2
1.5
1
0.5

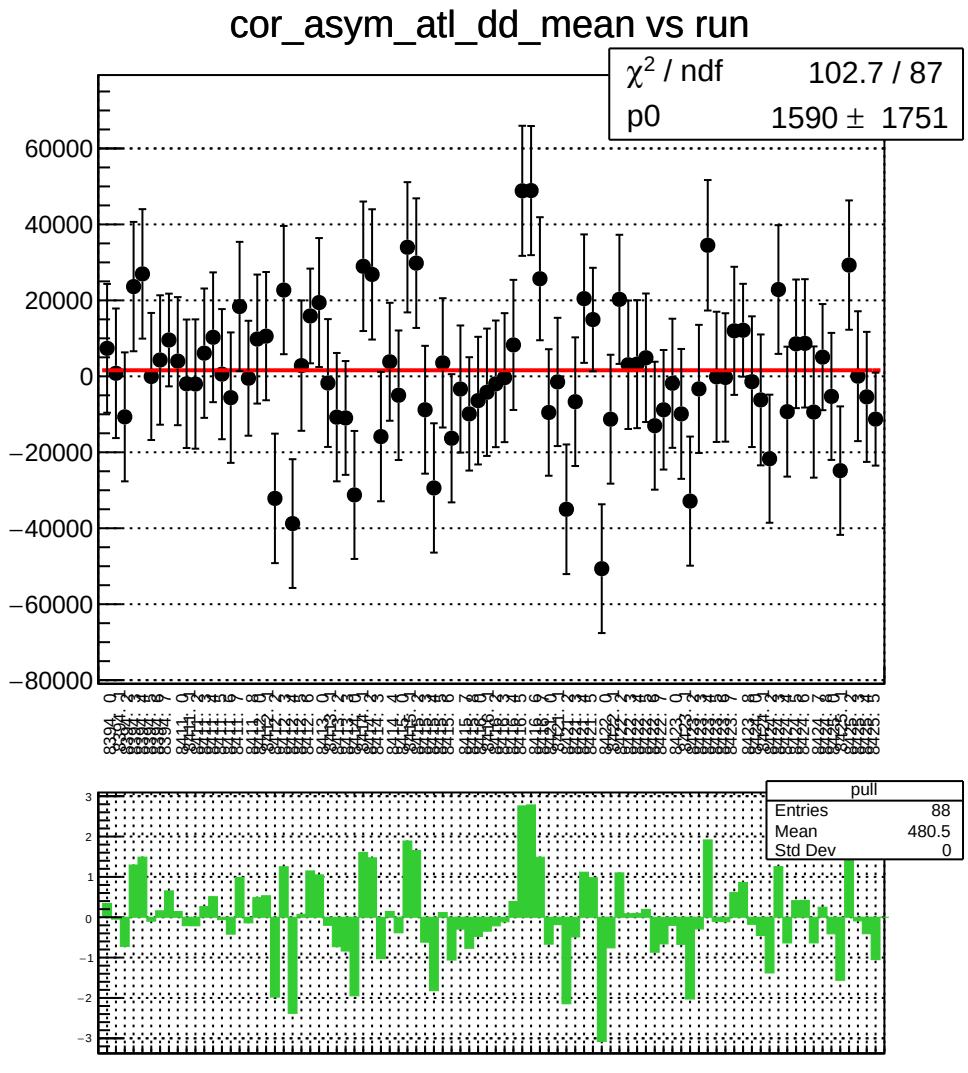

reg_asym_atl_dd_mean vs run
χ² / ndf 102.7 / 87
p0 1590 ± 1751
pull
Entries 88
Mean 480.5
Std Dev 0
pull1D
Entries 88
Mean −0.00636
Std Dev 1.08

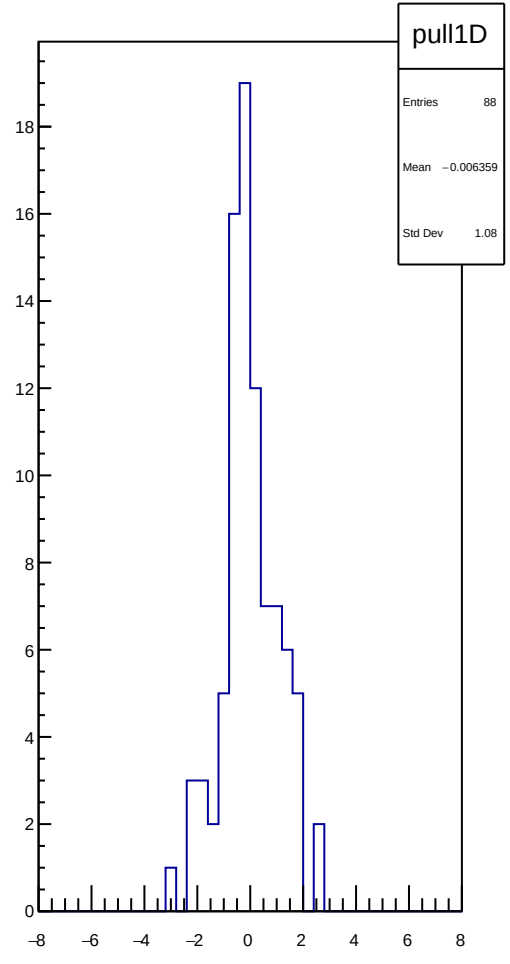

reg_asym_atl_dd_rms vs run
χ^2 / ndf 94.69 / 87
p0 1611 ± 1.238
1650
1640
1630
1620
1610
1600
1590
1580
1570

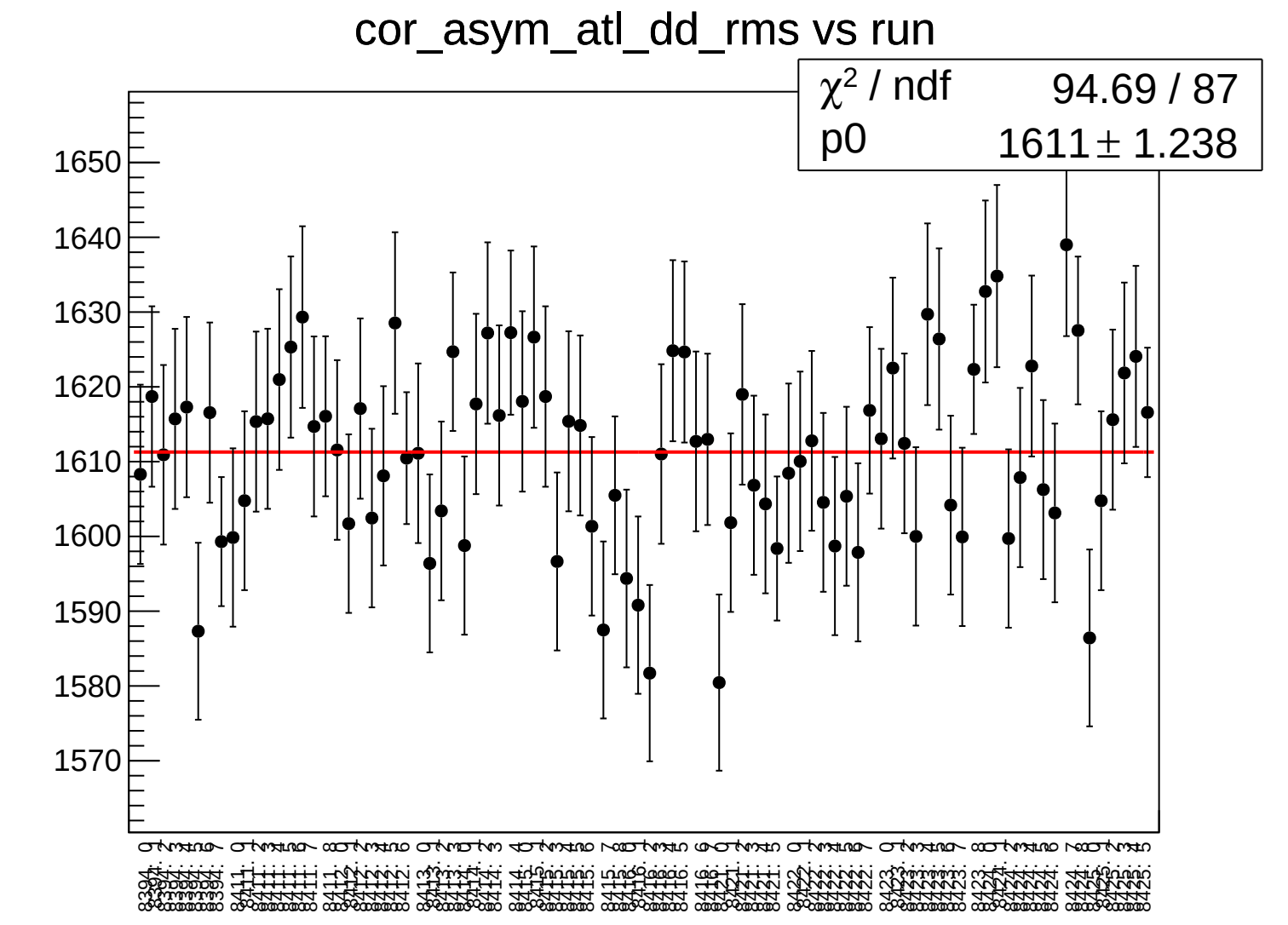

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 66.87 / 87
p0 3142 ± 5063
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −19.36
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

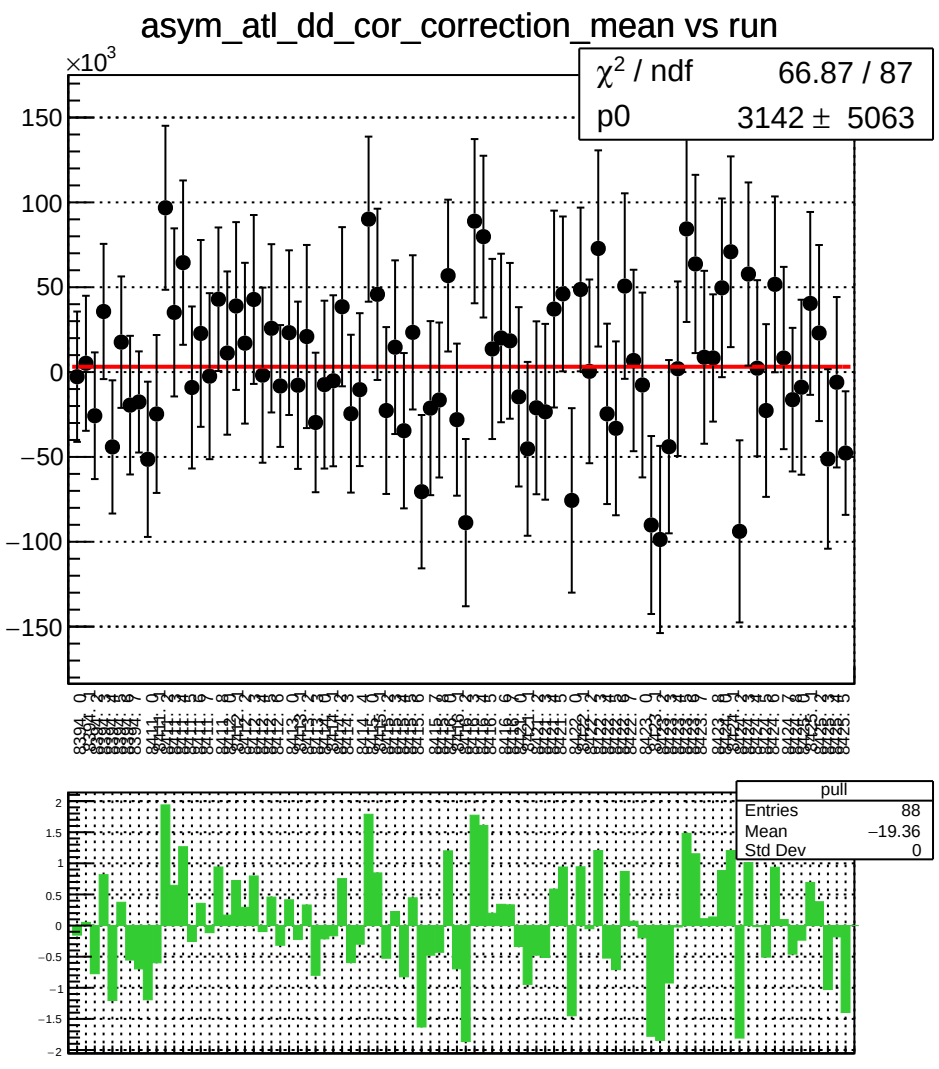

pull1D
Entries 88
Mean 0.01943
Std Dev 0.8715
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

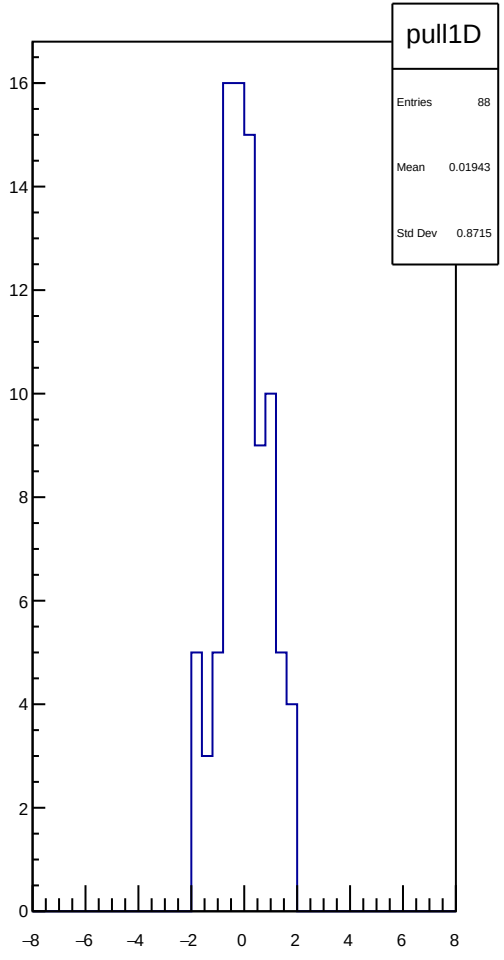

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 1.624e+04 / 87
p0 4636 ± 3.58
5500
5000
4500
4000
3500

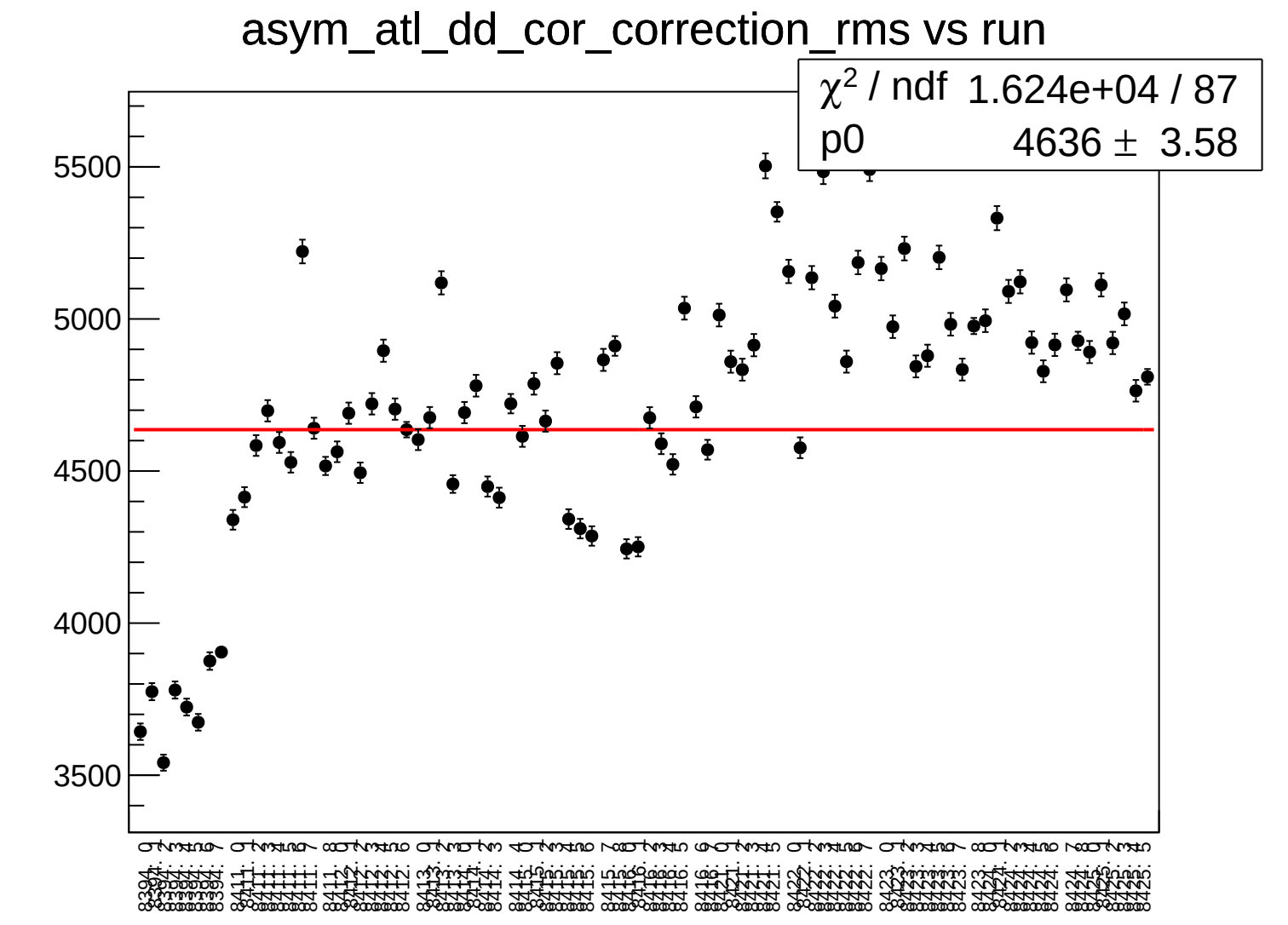

cor_asym_atl_dd_mean vs run
χ² / ndf 102.7 / 87
p0 1590 ± 1751
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 480.5
Std Dev 0
3
2
1
0
−1
−2
−3

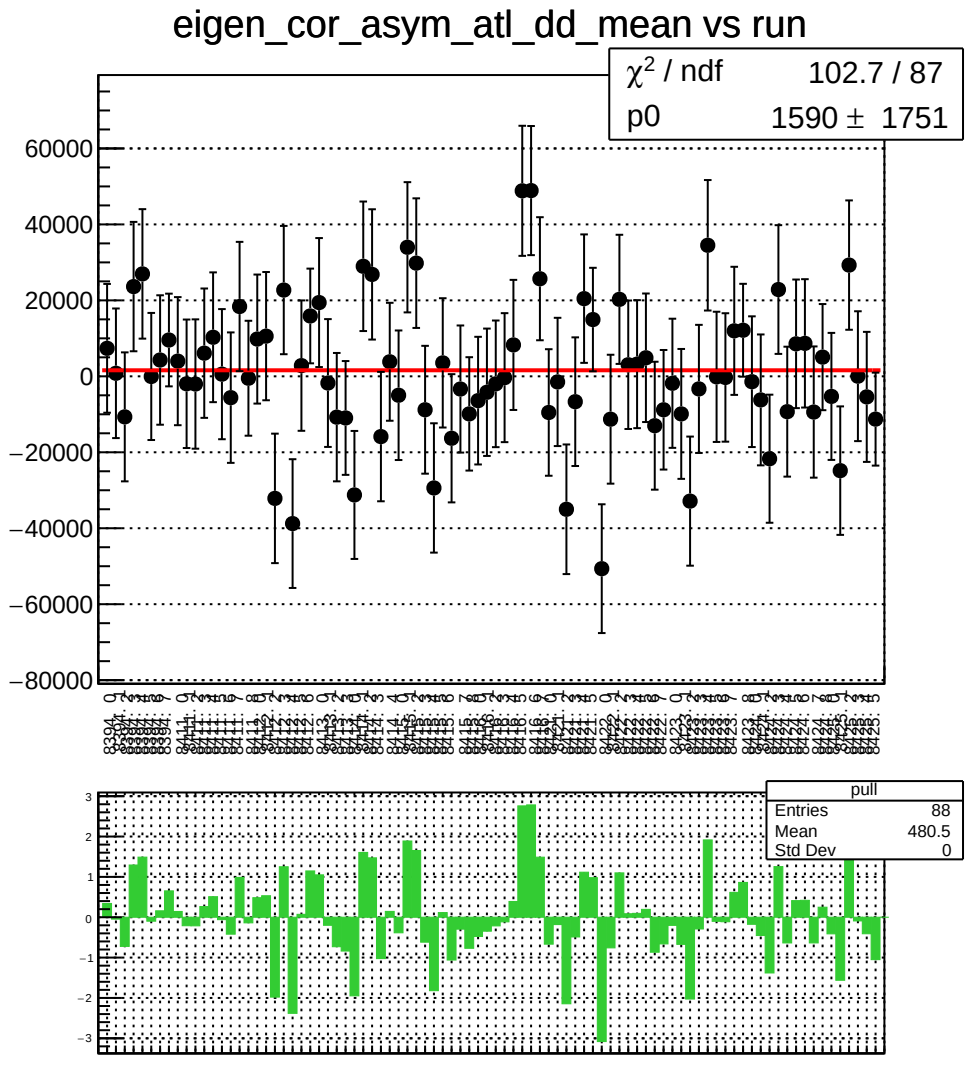

pull1D
Entries 88
Mean −0.006359
Std Dev 1.08
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

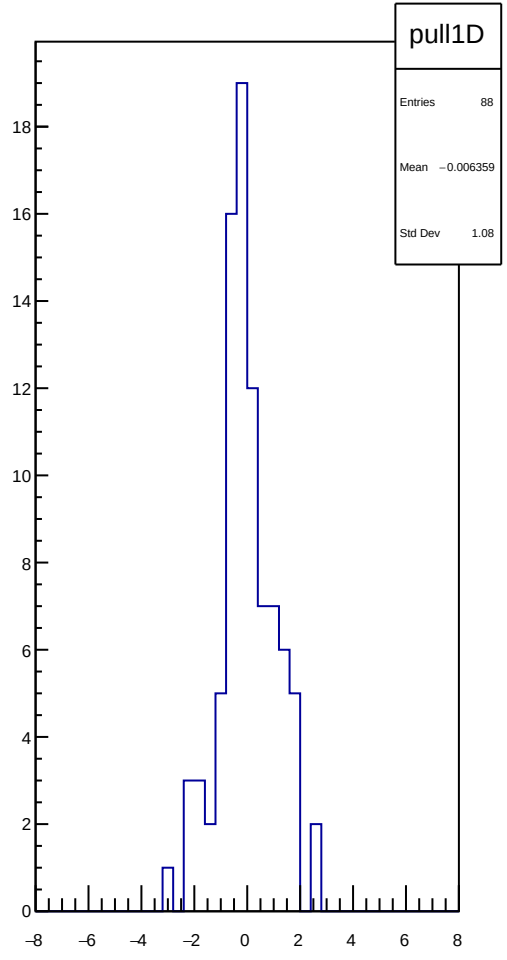

cor_asym_atl_dd_rms vs run
χ^2 / ndf 94.69 / 87
p0 1611 ± 1.238
1650
1640
1630
1620
1610
1600
1590
1580
1570

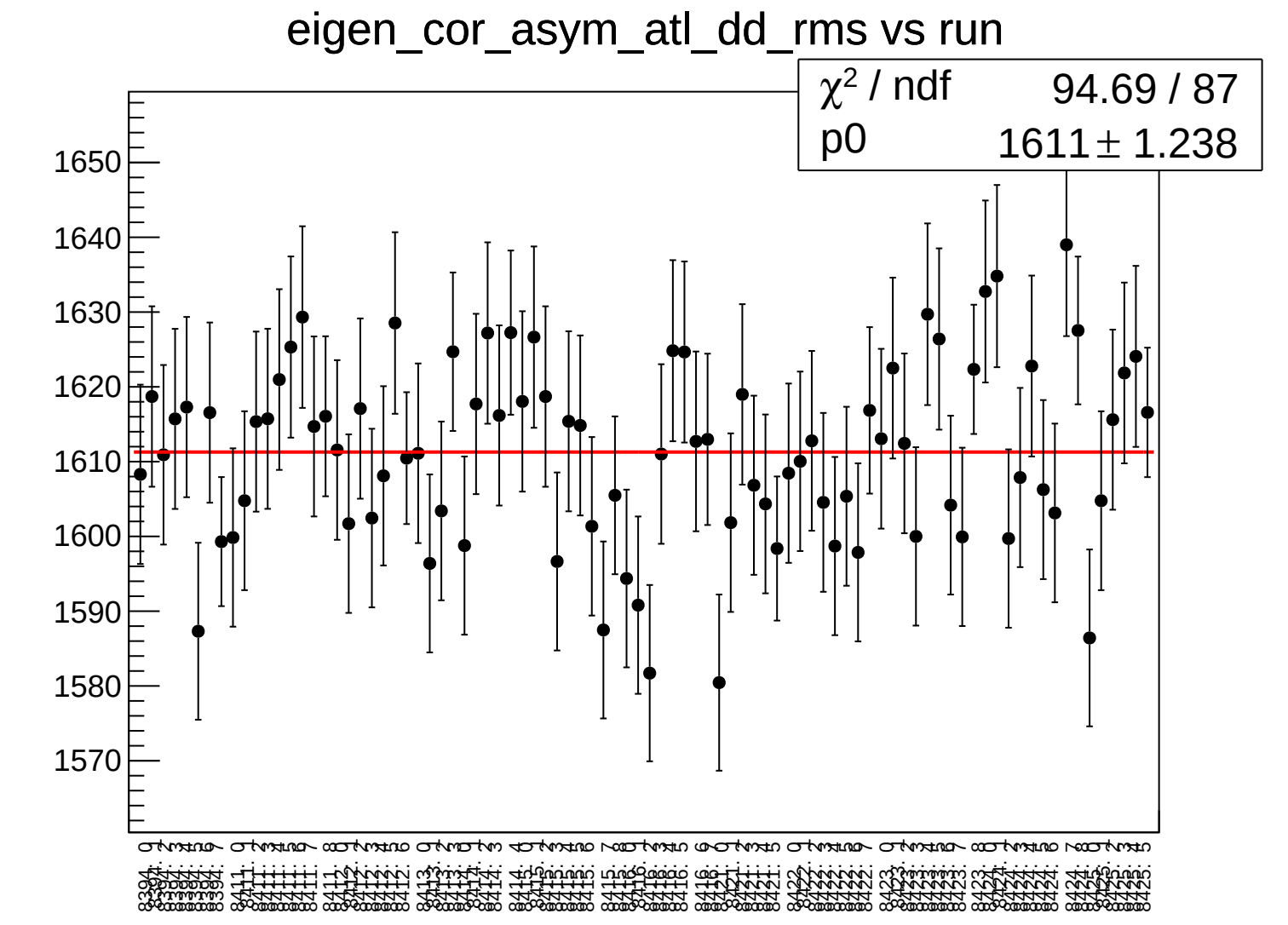

asym_atl_dd_cor_correction_mean vs run
×10^3
χ² / ndf 66.87 / 87
p0 3142 ± 5063
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −19.36
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

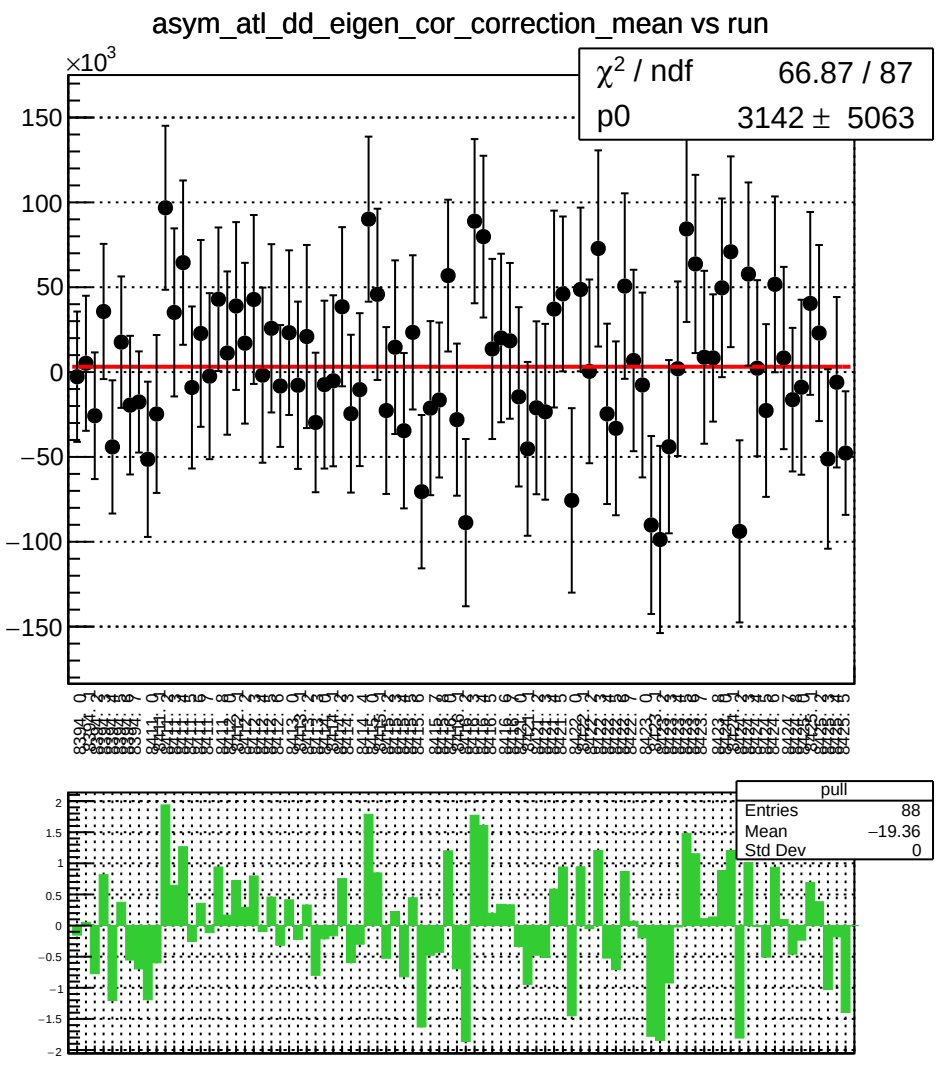

pull1D
Entries 88
Mean 0.01943
Std Dev 0.8715
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

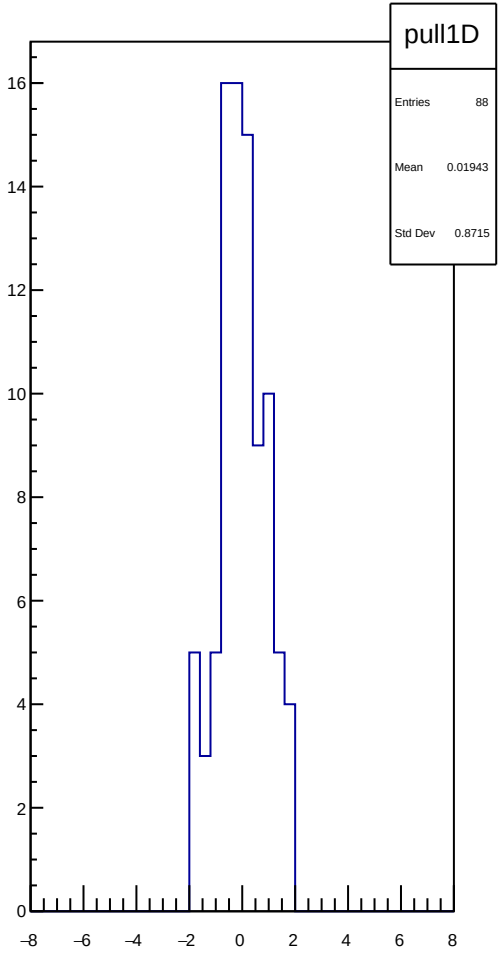

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 1.624e+04 / 87
p0 4636 ± 3.58
5500
5000
4500
4000
3500

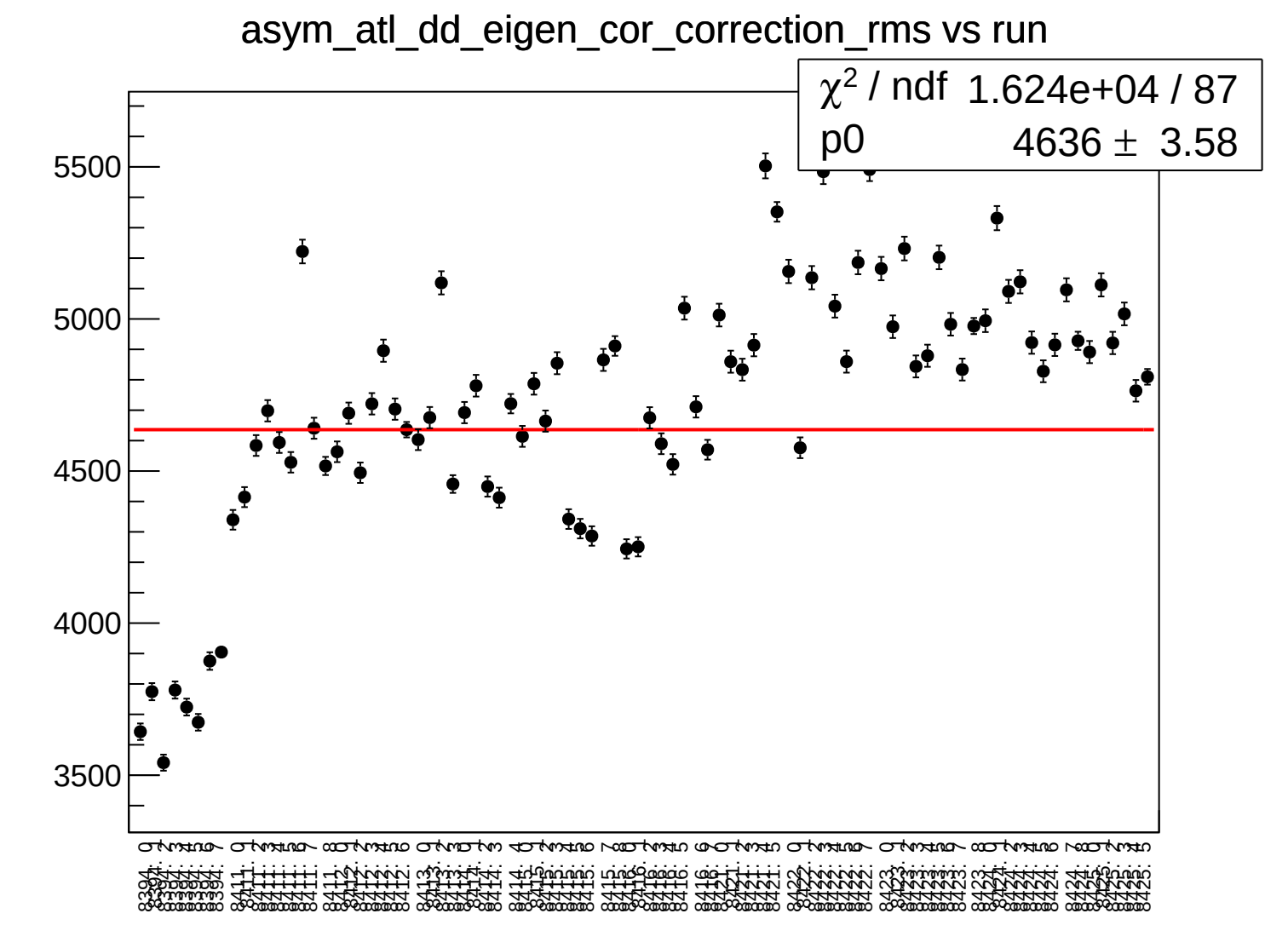

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 102.7 / 87
p0 1590 ± 1751
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 480.5
Std Dev 0
3
2
1
0
−1
−2
−3

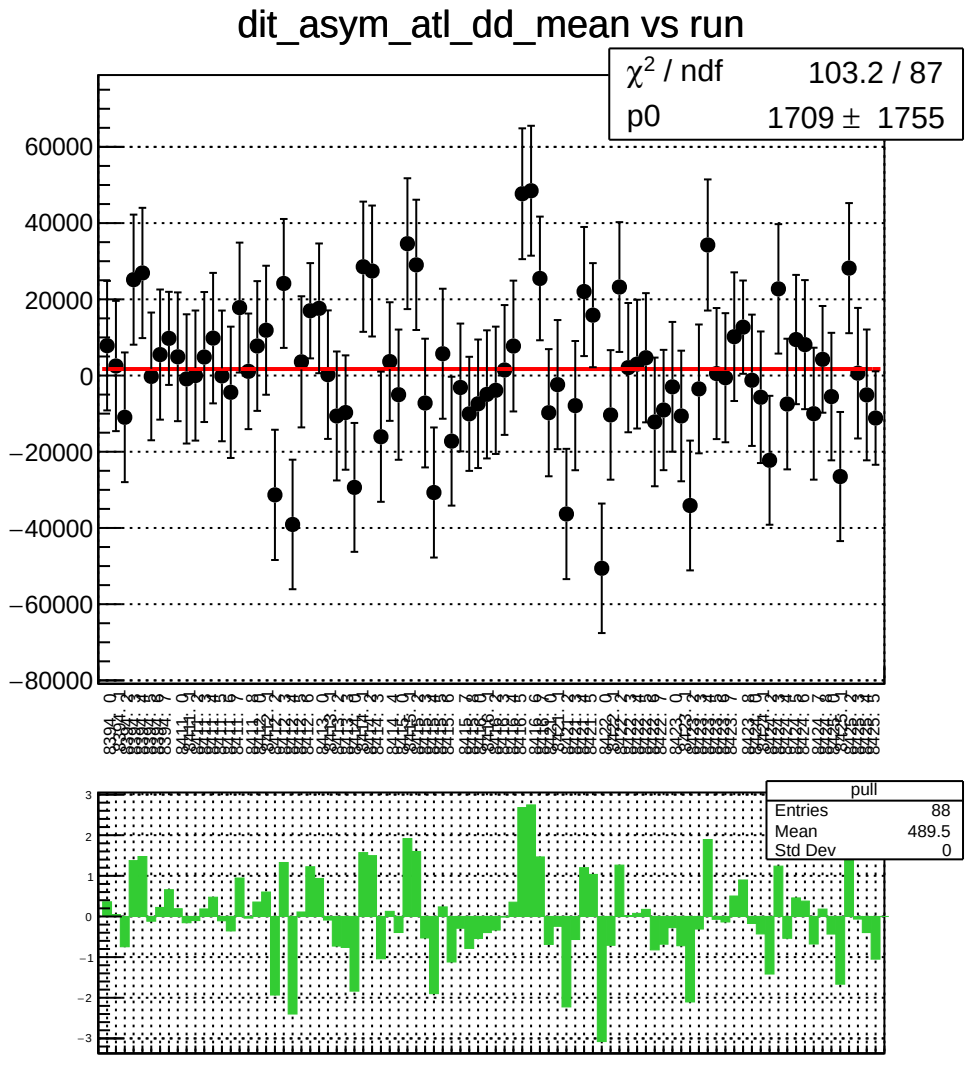

pull1D
Entries 88
Mean −0.006359
Std Dev 1.08
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

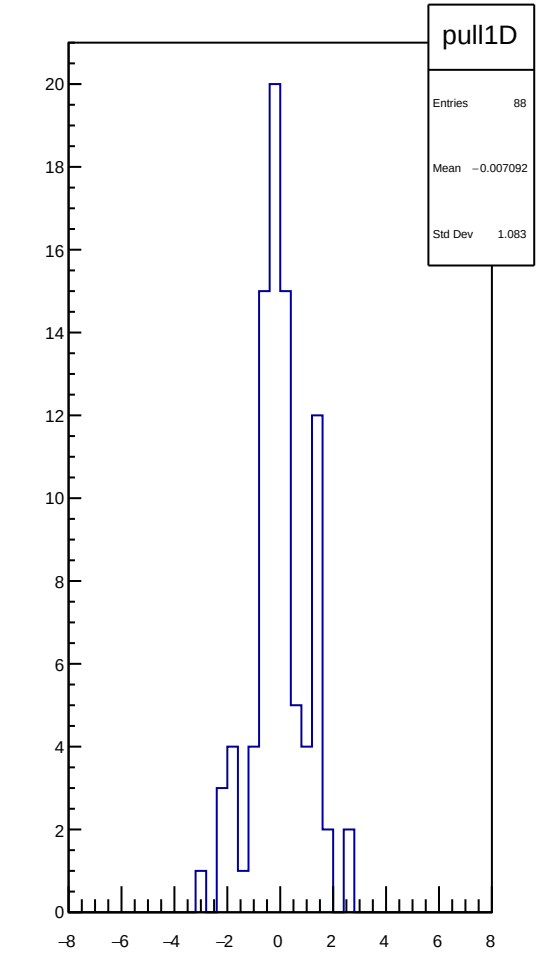

eigen_cor_asym_atl_dd_rms vs run
χ^2 / ndf 94.69 / 87
p0 1611 ± 1.238
1650
1640
1630
1620
1610
1600
1590
1580
1570

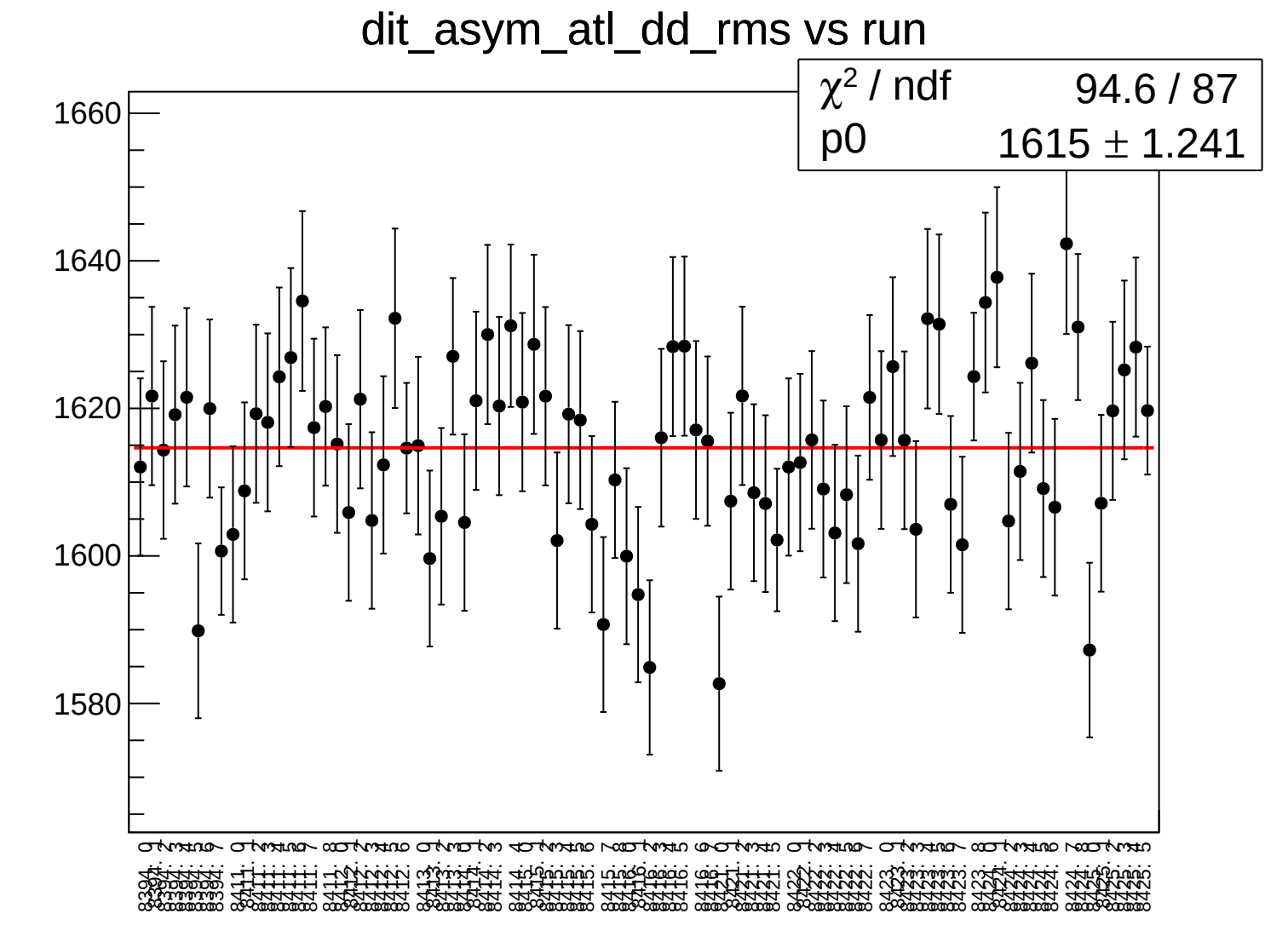

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 66.87 / 87
p0 3142 ± 5063
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −19.36
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

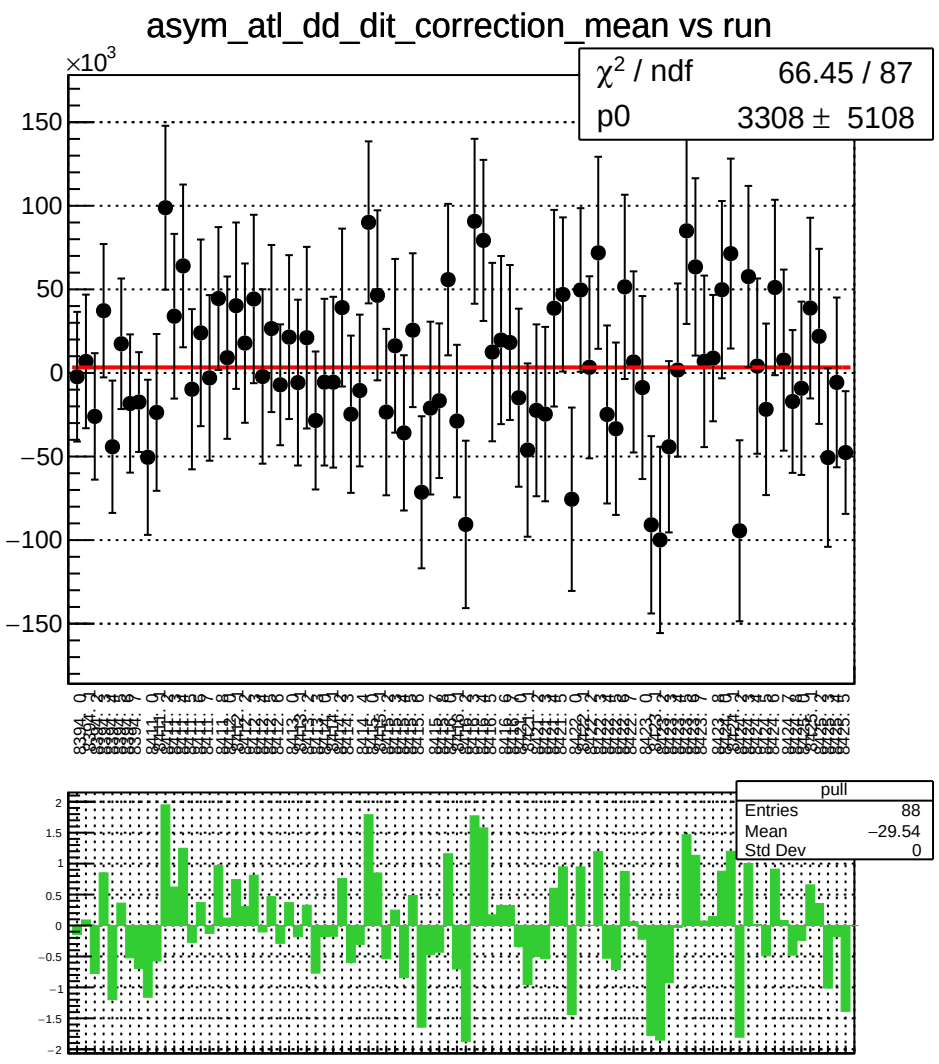

pull1D
Entries 88
Mean 0.01943
Std Dev 0.8715
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

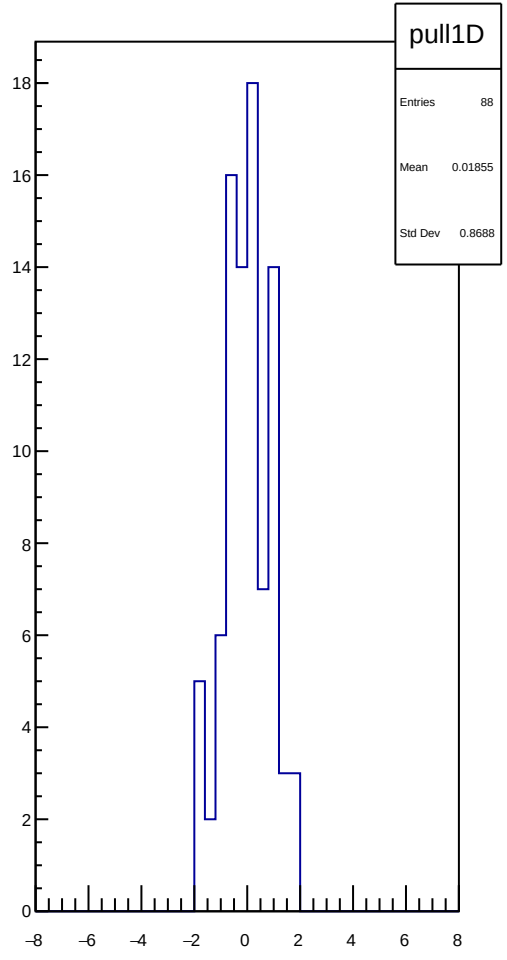

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.624e+04 / 87
p0 4636 ± 3.58
5500
5000
4500
4000
3500

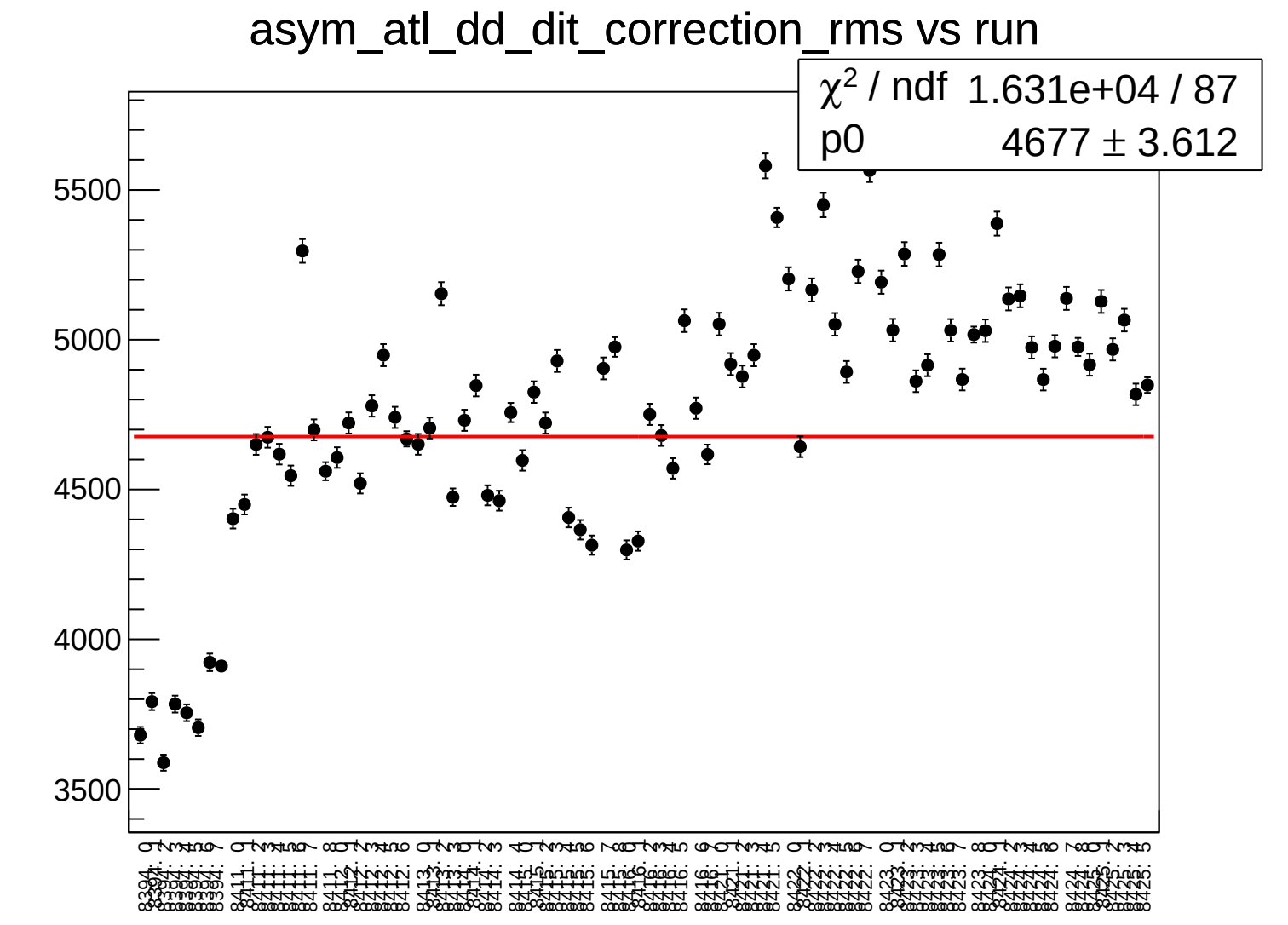

dit_asym_atl_dd_mean vs run
χ² / ndf 103.2 / 87
p0 1709 ± 1755
pull
Entries 88
Mean 489.5
Std Dev 0

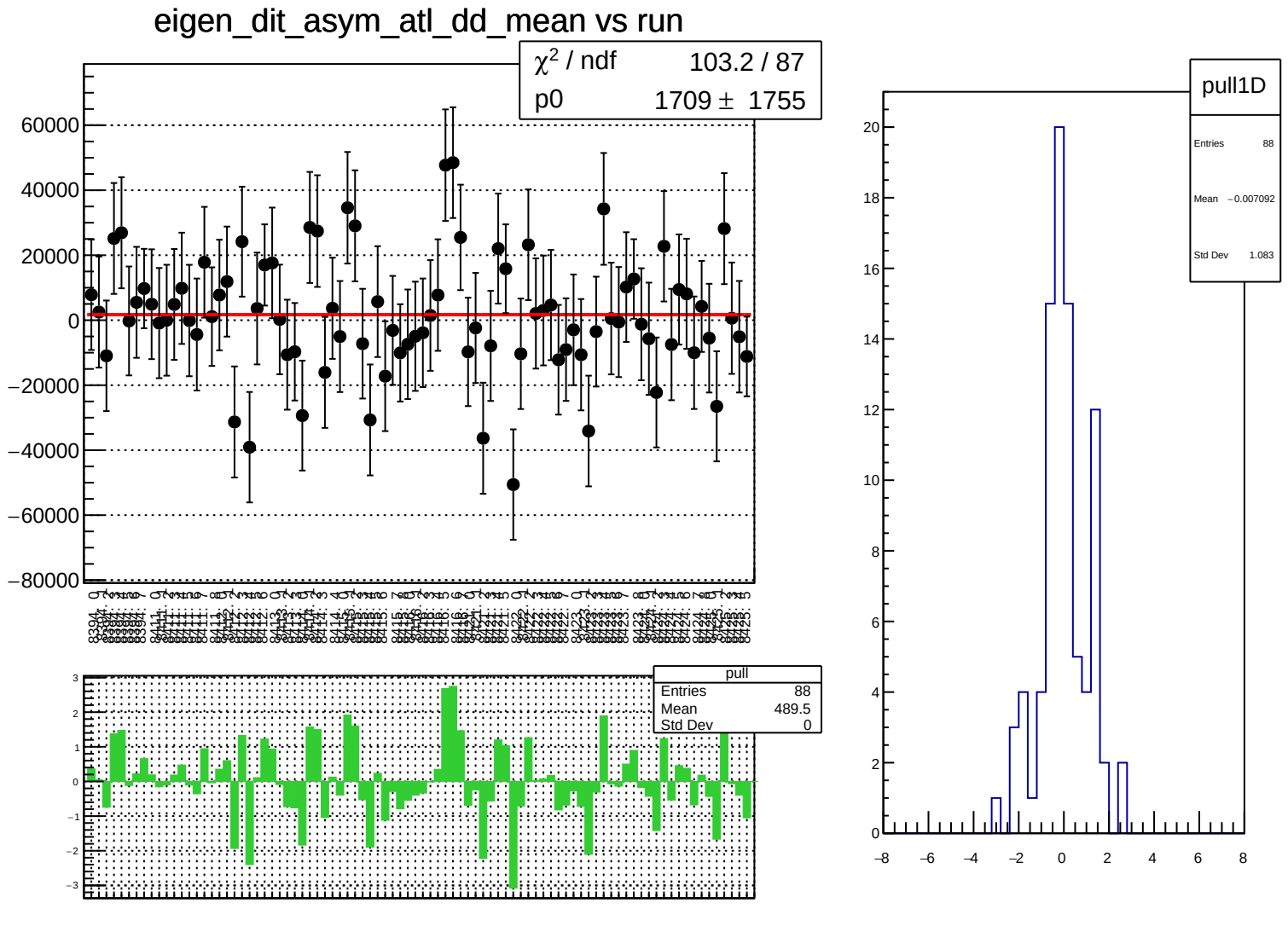

pull1D
Entries 88
Mean −0.007092
Std Dev 1.083

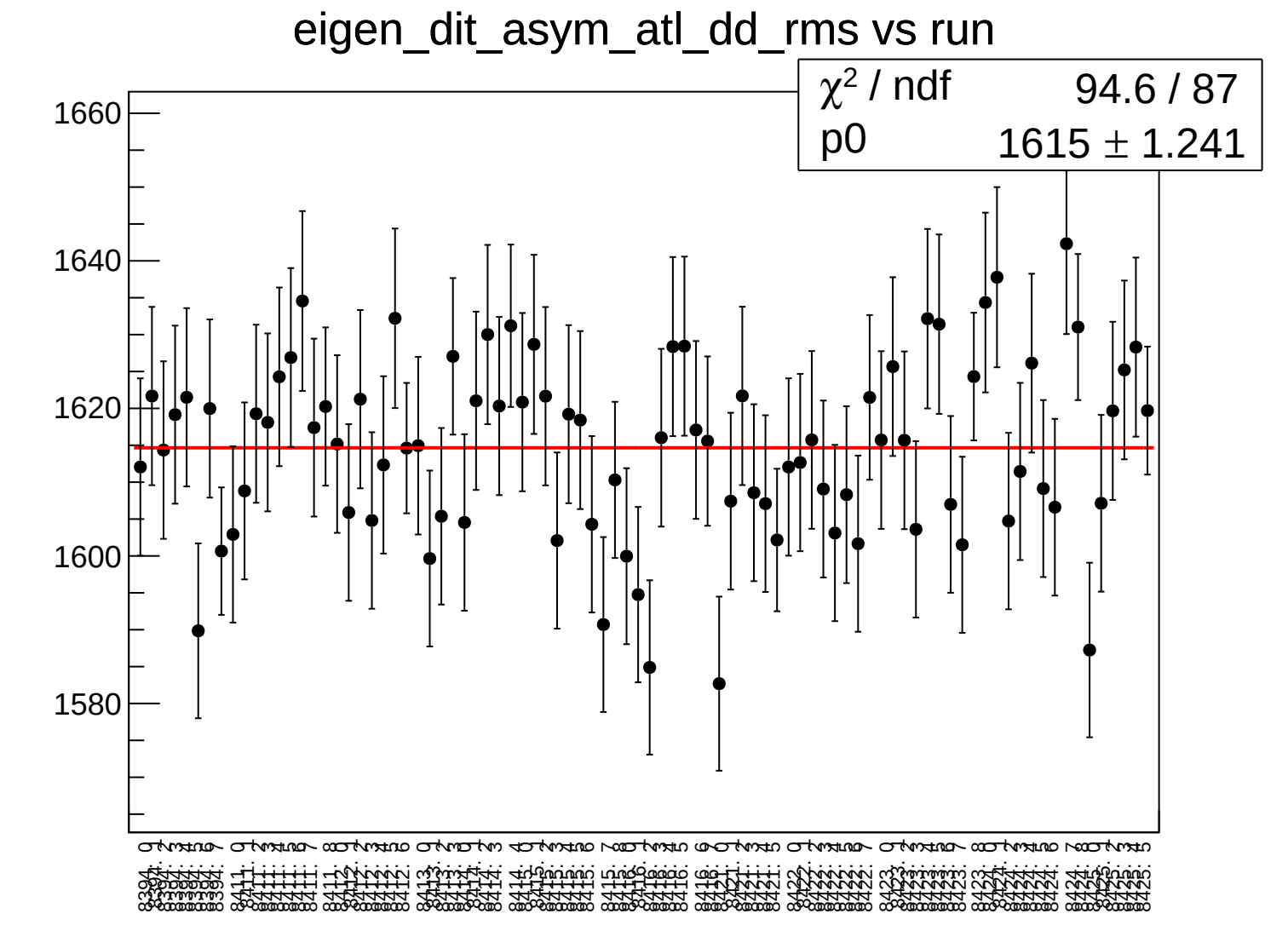

dit_asym_atl_dd_rms vs run
χ² / ndf 94.6 / 87
p0 1615 ± 1.241
1660
1640
1620
1600
1580

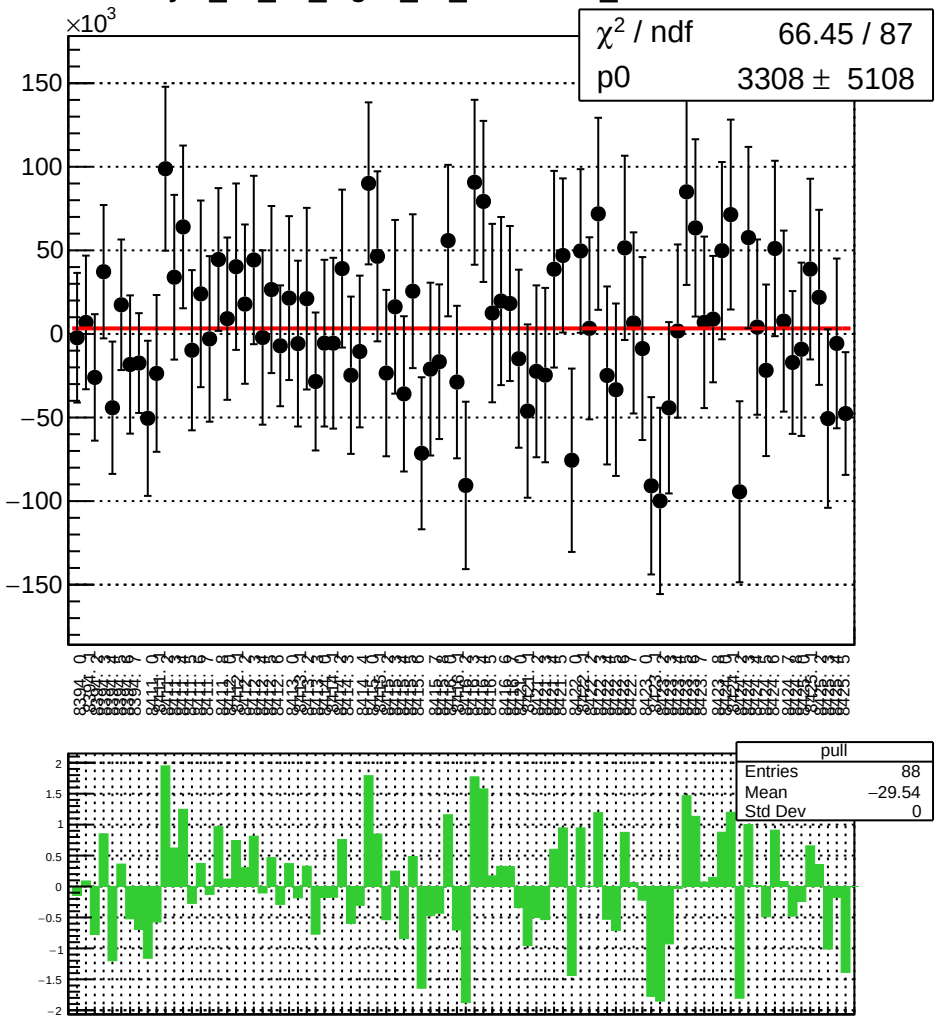

asym_atl_dd_dit_correction_mean vs run
×10^3
χ² / ndf 66.45 / 87
p0 3308 ± 5108
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −29.54
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

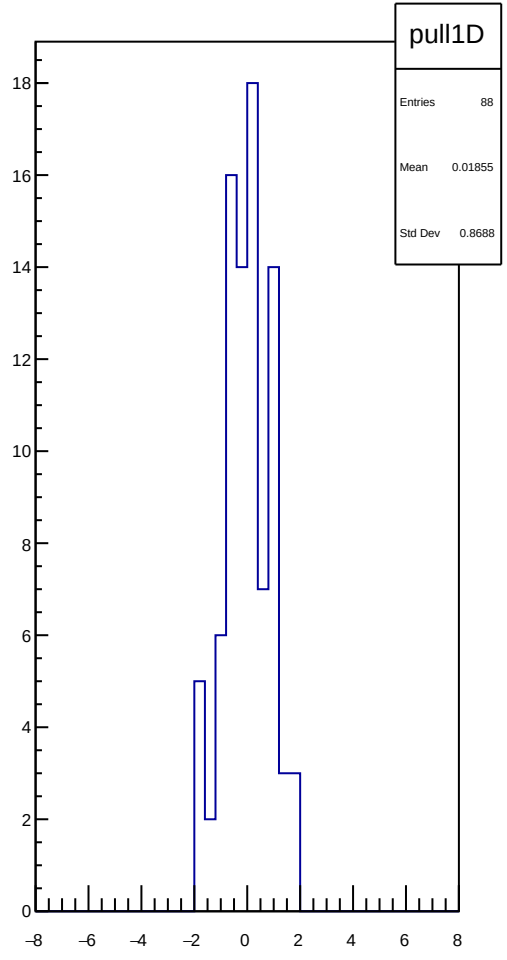

pull1D
Entries 88
Mean 0.01855
Std Dev 0.8688
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

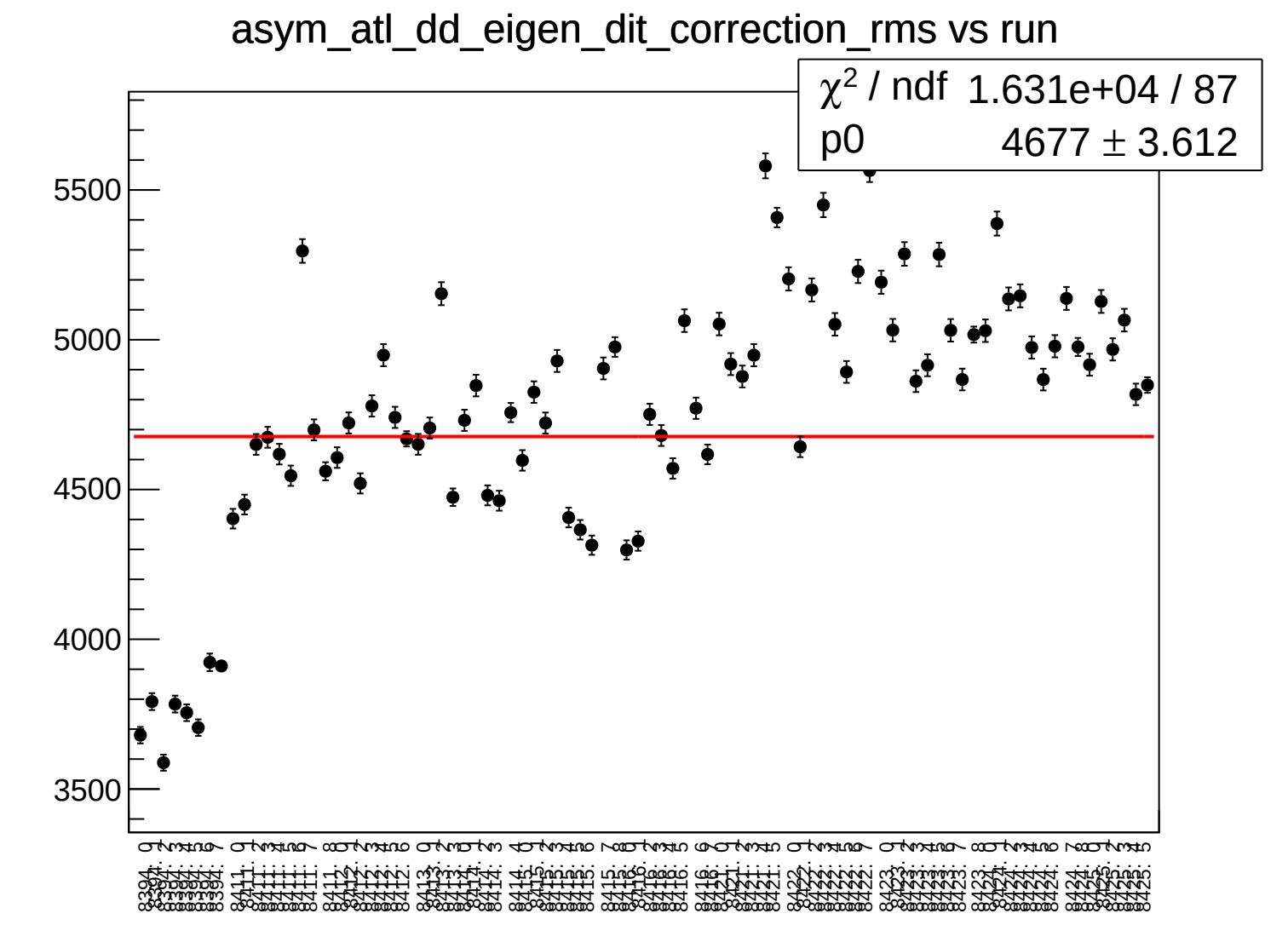

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 1.631e+04 / 87
p0 4677 ± 3.612
5500
5000
4500
4000
3500

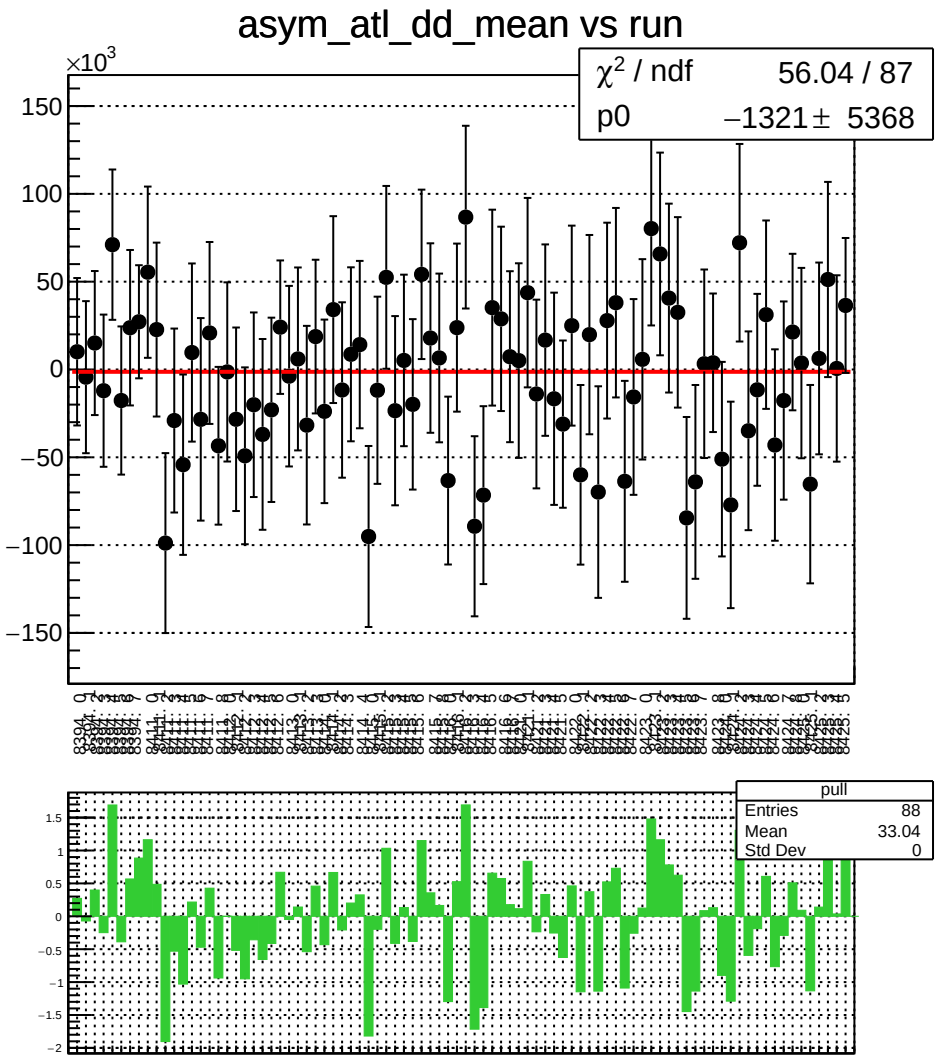

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 103.2 / 87
p0 1709 ± 1755
pull
Entries 88
Mean 489.5
Std Dev 0
pull1D
Entries 88
Mean −0.007092
Std Dev 1.083

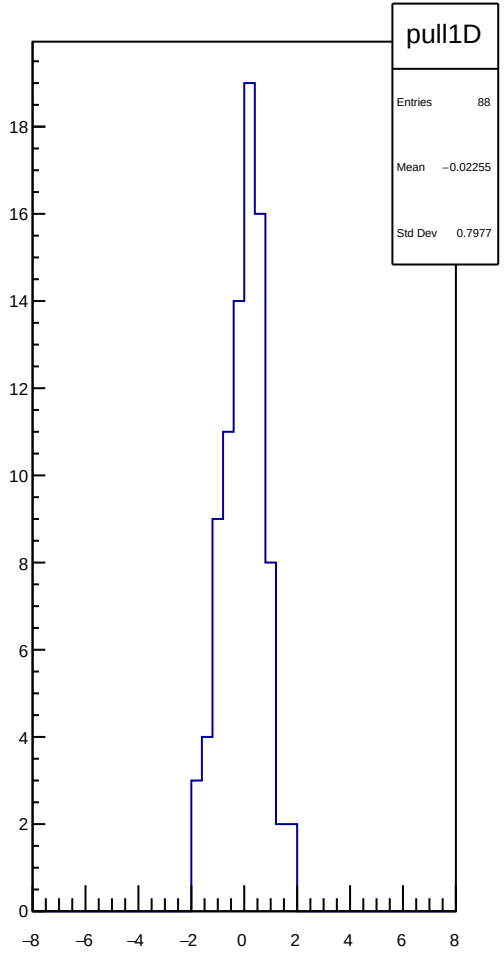

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 94.6 / 87
p0 1615 ± 1.241
1660
1640
1620
1600
1580

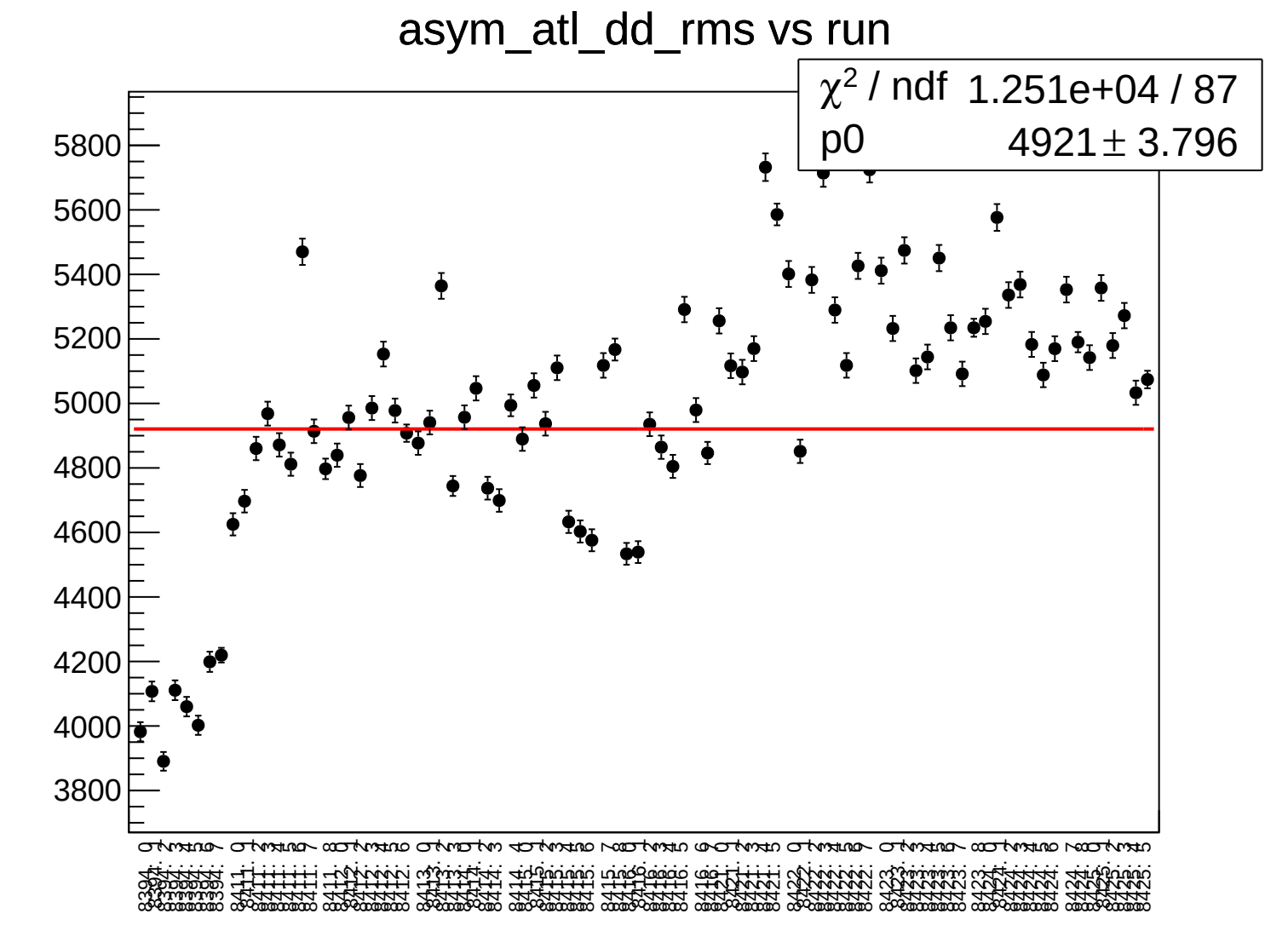

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 66.45 / 87
p0 3308 ± 5108
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −29.54
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

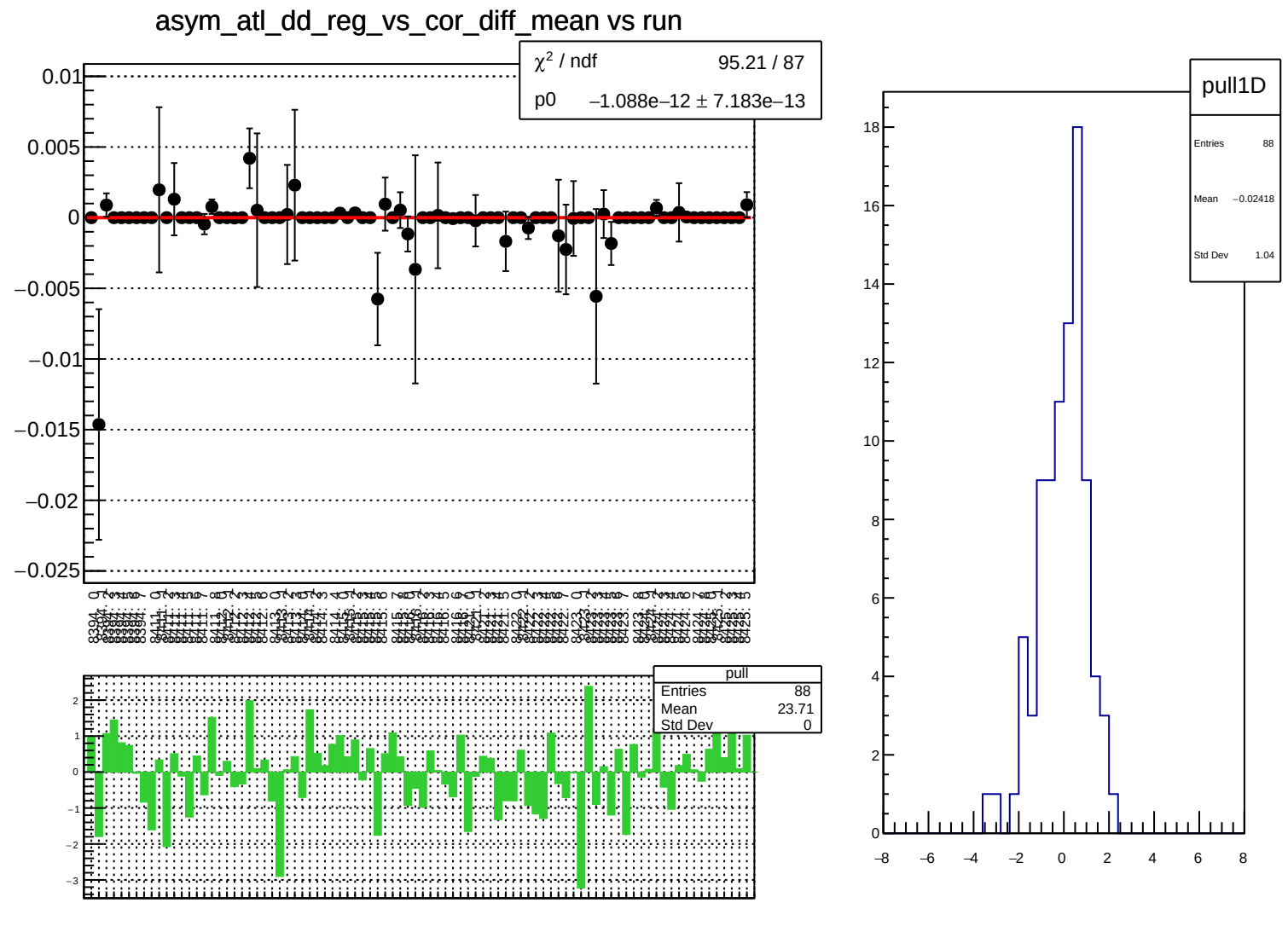

pull1D
Entries 88
Mean 0.01855
Std Dev 0.8688
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

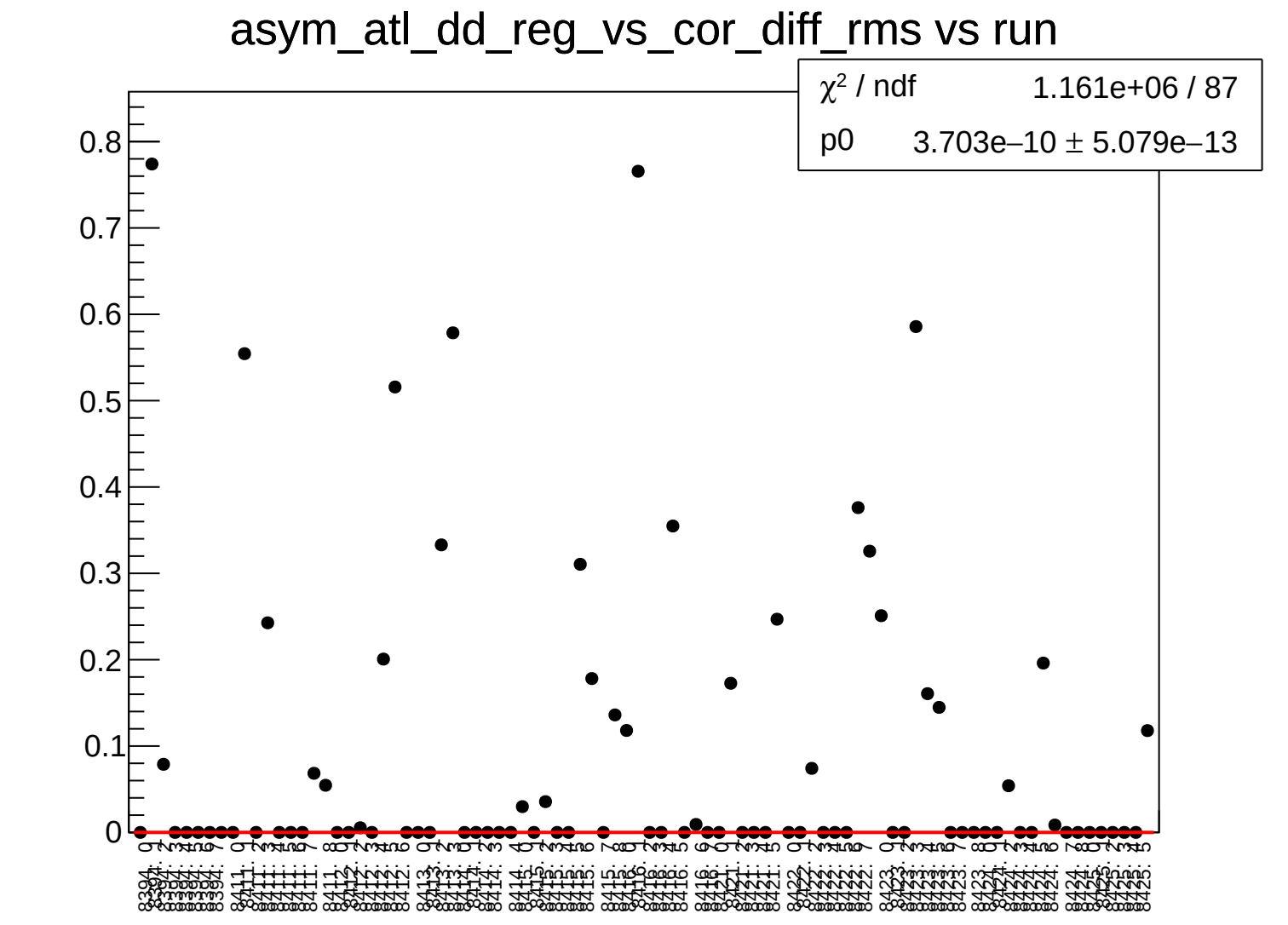

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.631e+04 / 87
p0 4677 ± 3.612
5500
5000
4500
4000
3500

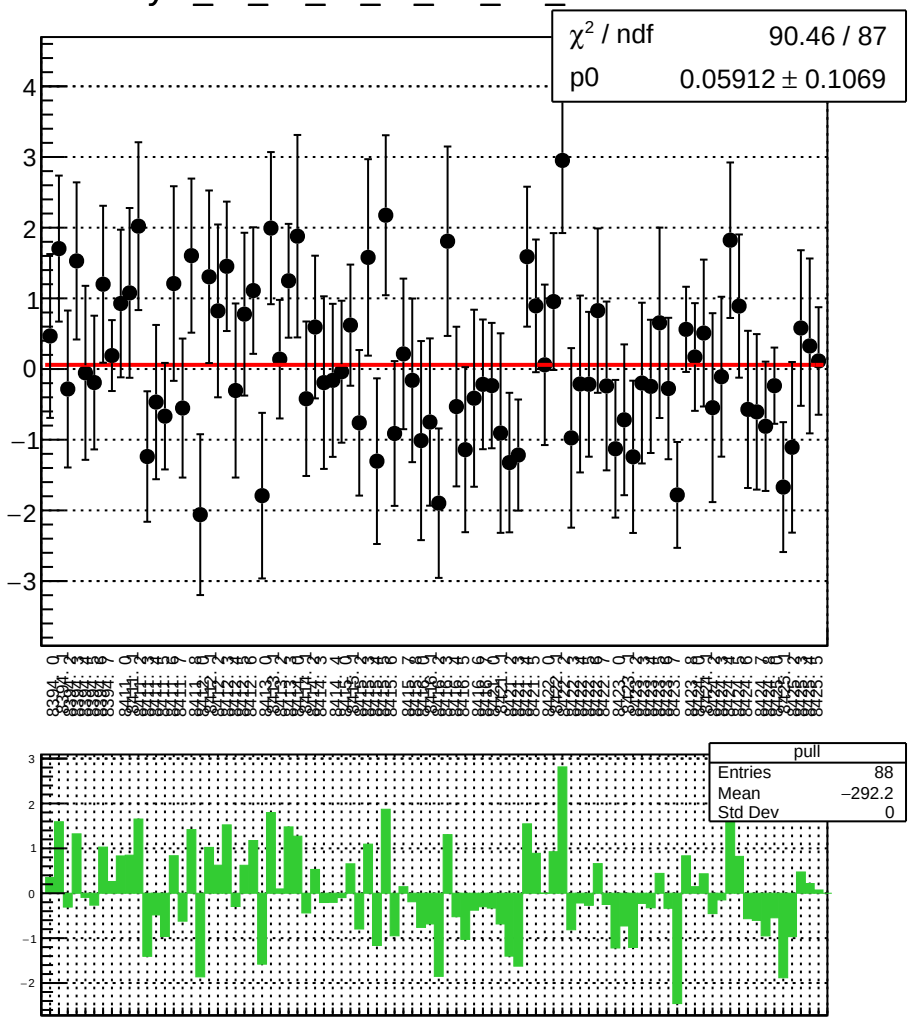

asym_atl_dd_mean vs run
×10^3
χ² / ndf 56.04 / 87
p0 −1321 ± 5368
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 33.04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

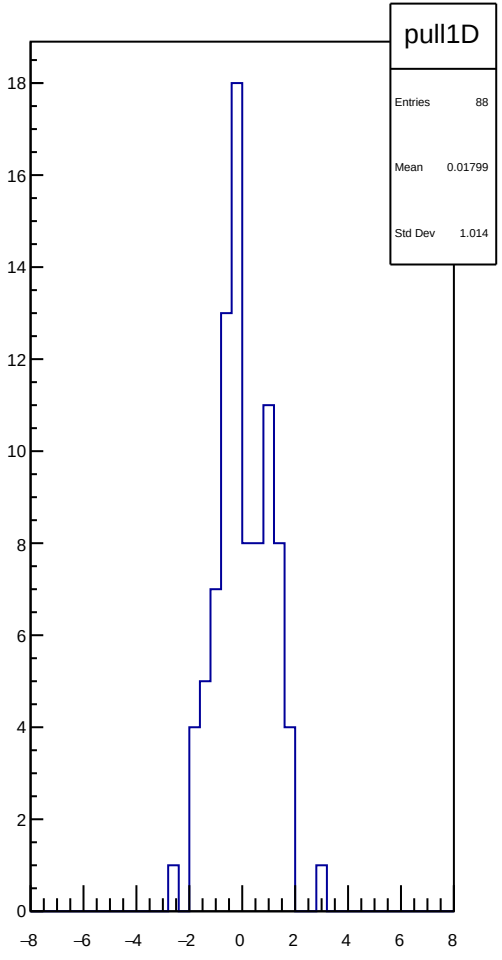

pull1D
Entries 88
Mean −0.02255
Std Dev 0.7977
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

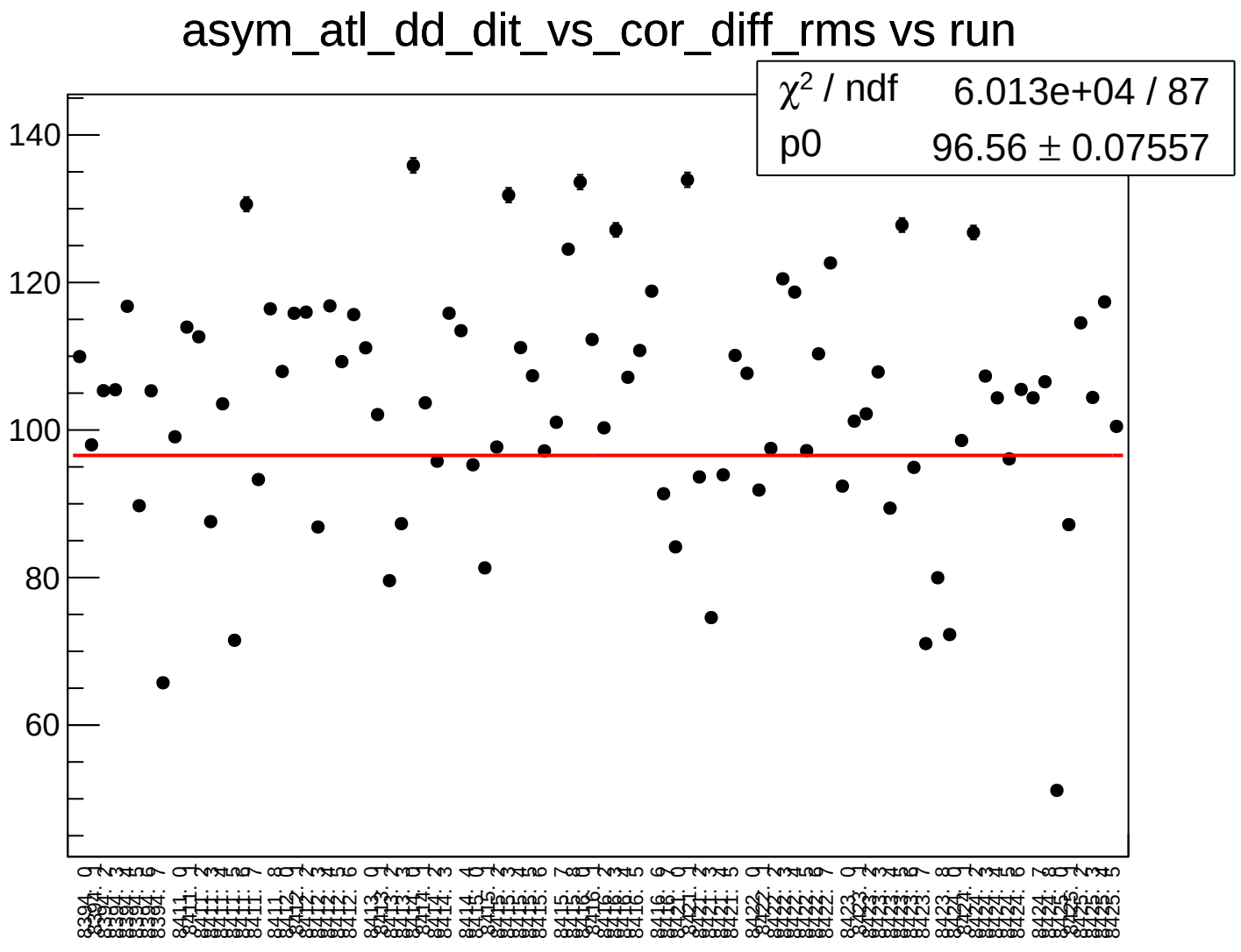

asym_atl_dd_rms vs run
χ^2 / ndf 1.251e+04 / 87
p0 4921 ± 3.796
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

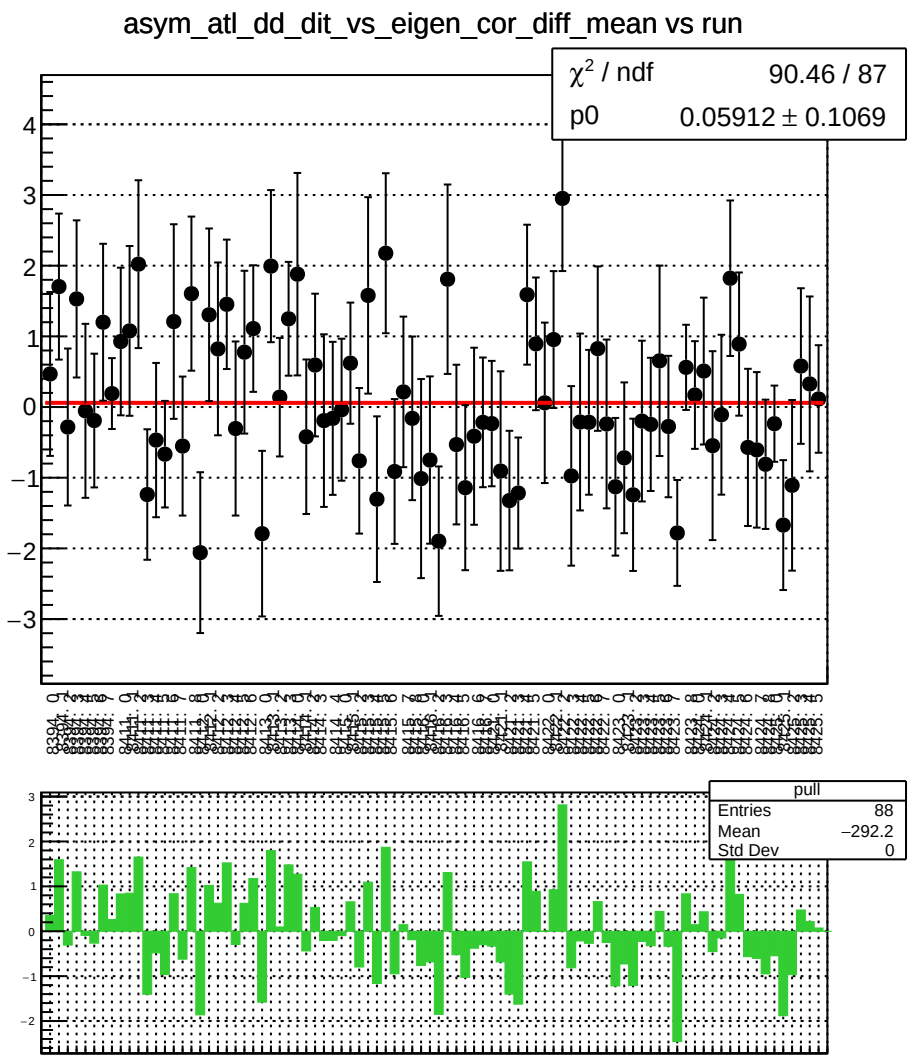

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.21 / 87
p0 −1.088e−12 ± 7.183e−13
pull
Entries 88
Mean 23.71
Std Dev 0
pull1D
Entries 88
Mean −0.02418
Std Dev 1.04

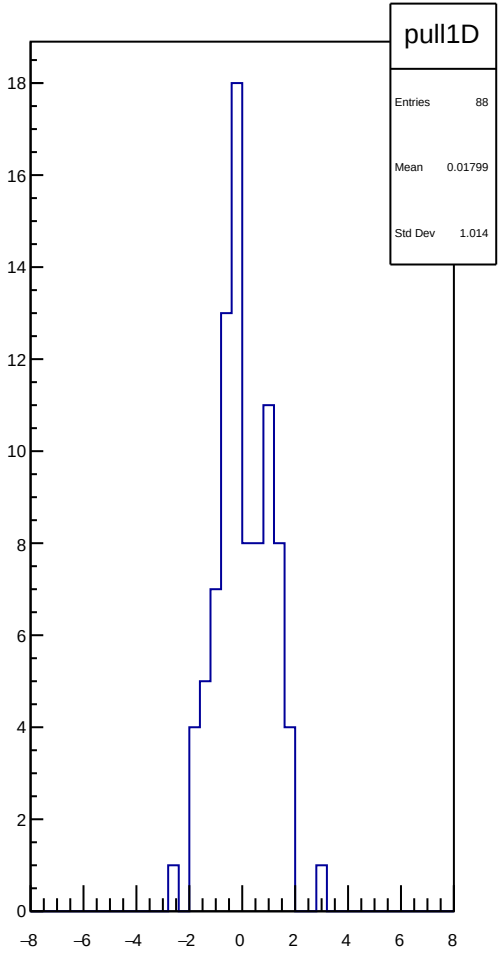

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.161e+06 / 87
p0 3.703e−10 ± 5.079e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

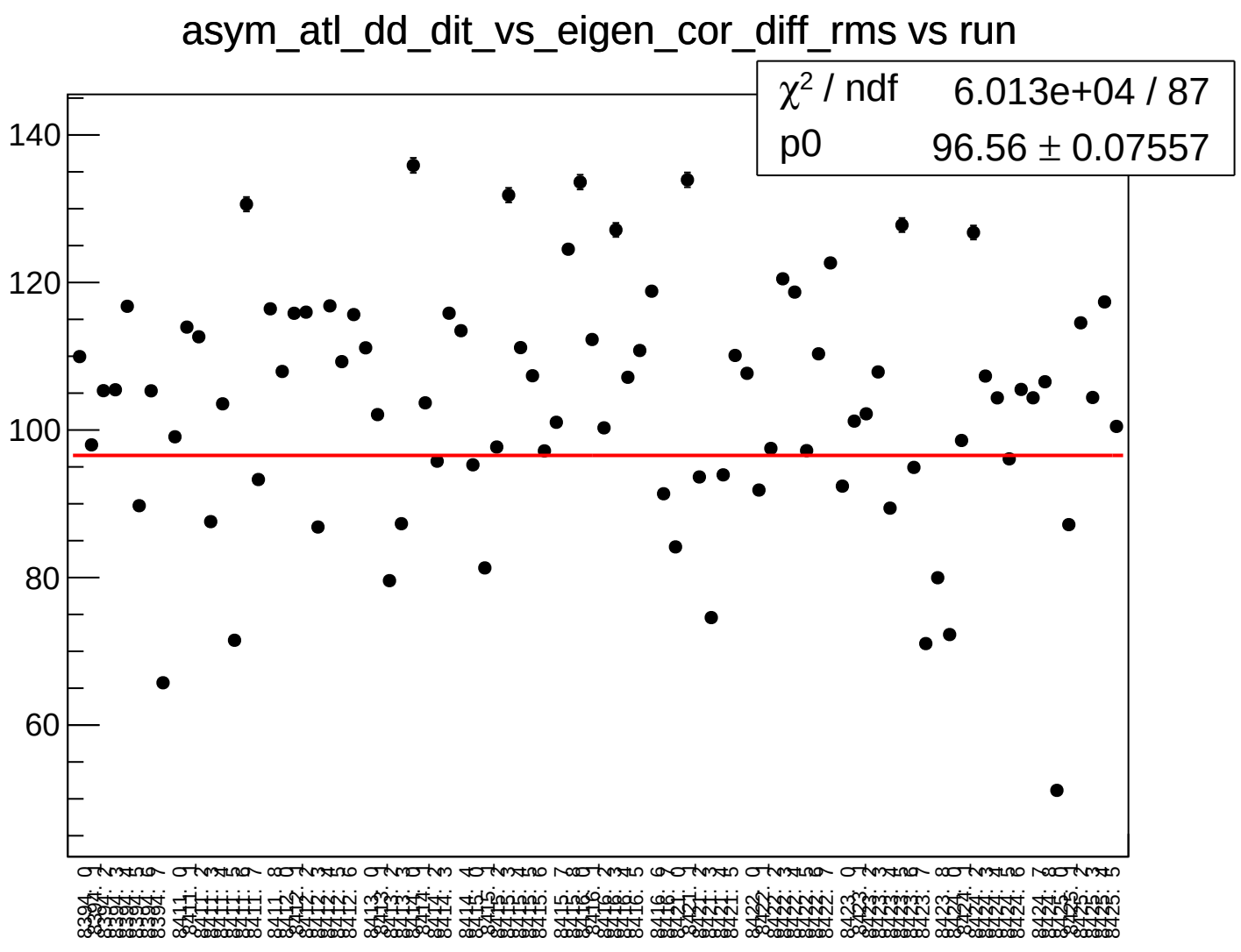

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.46 / 87
p0 0.05912 ± 0.1069
pull
Entries 88
Mean −292.2
Std Dev 0

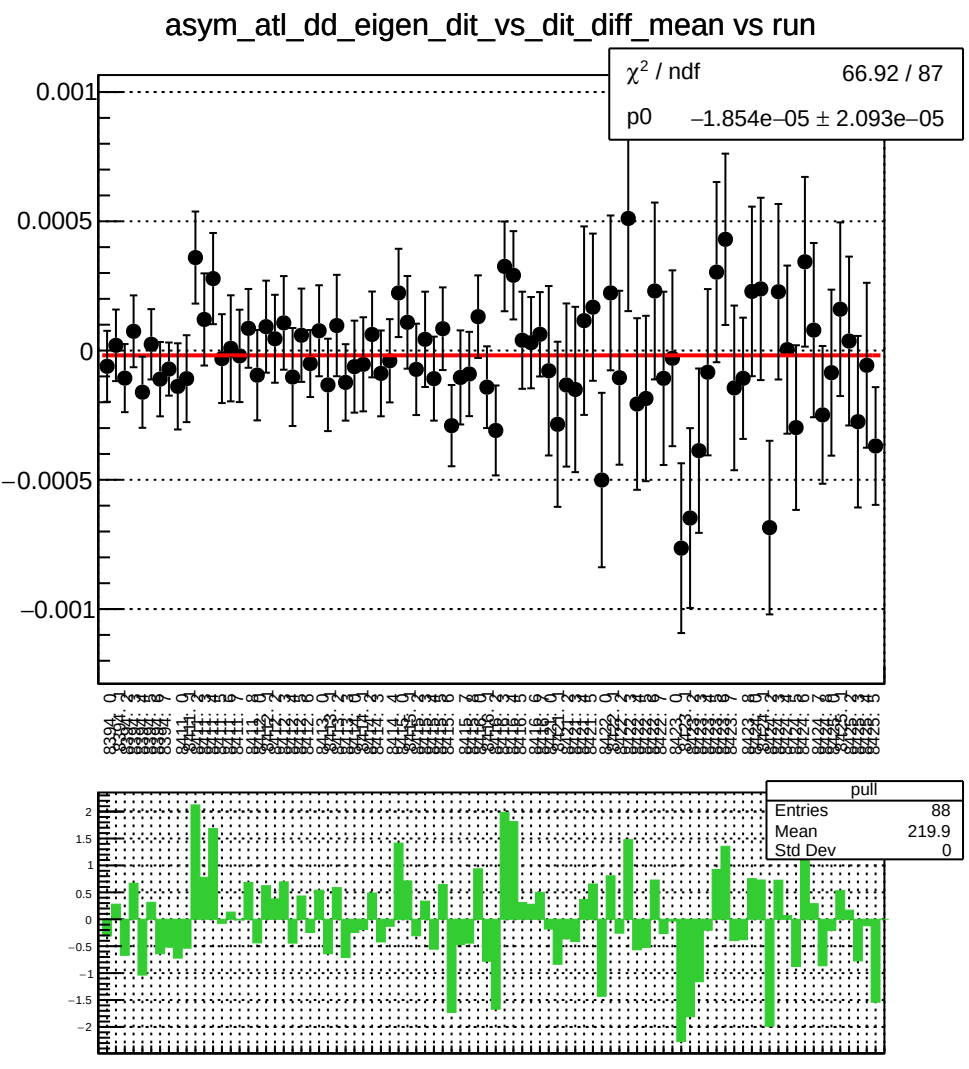

pull1D
Entries 88
Mean 0.01799
Std Dev 1.014

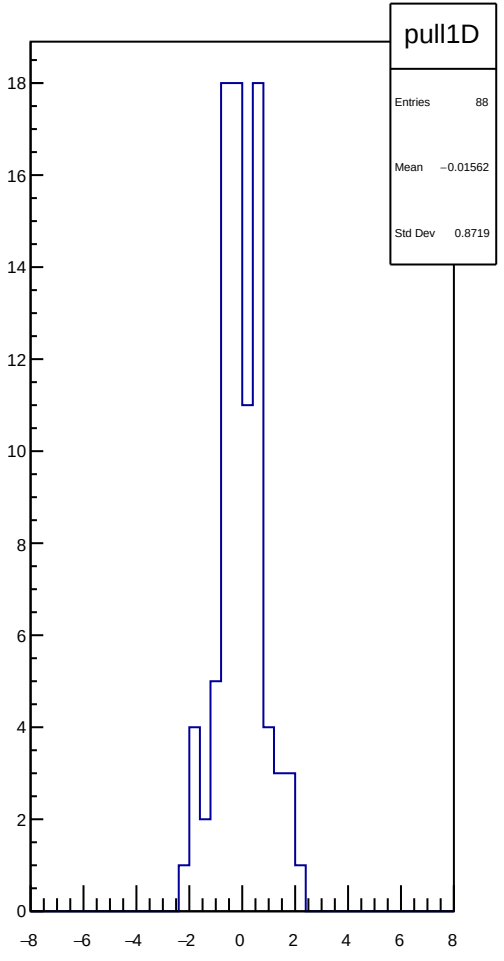

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.013e+04 / 87
p0 96.56 ± 0.07557
140
120
100
80
60

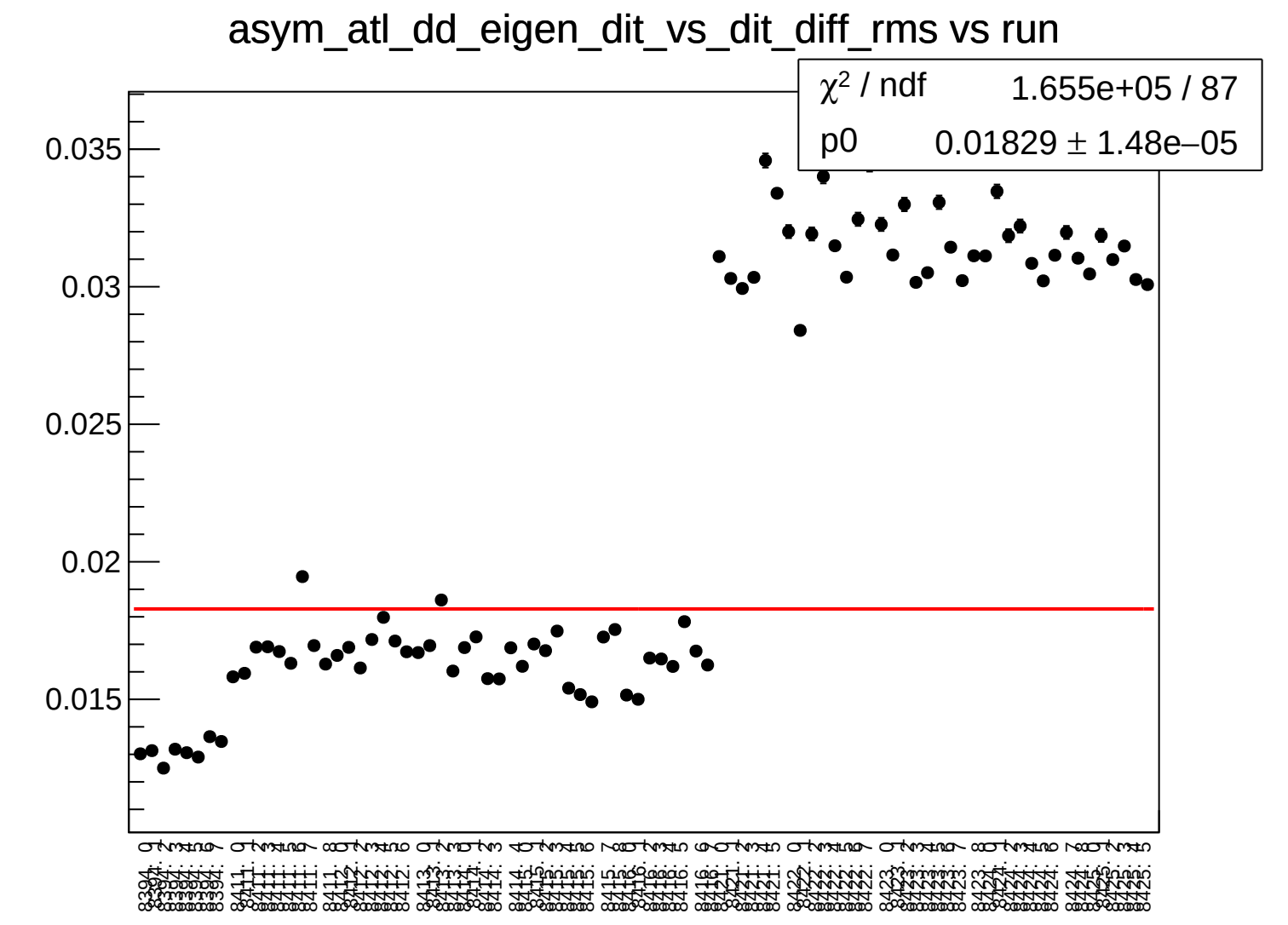

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.46 / 87
p0 0.05912 ± 0.1069
pull
Entries 88
Mean −292.2
Std Dev 0

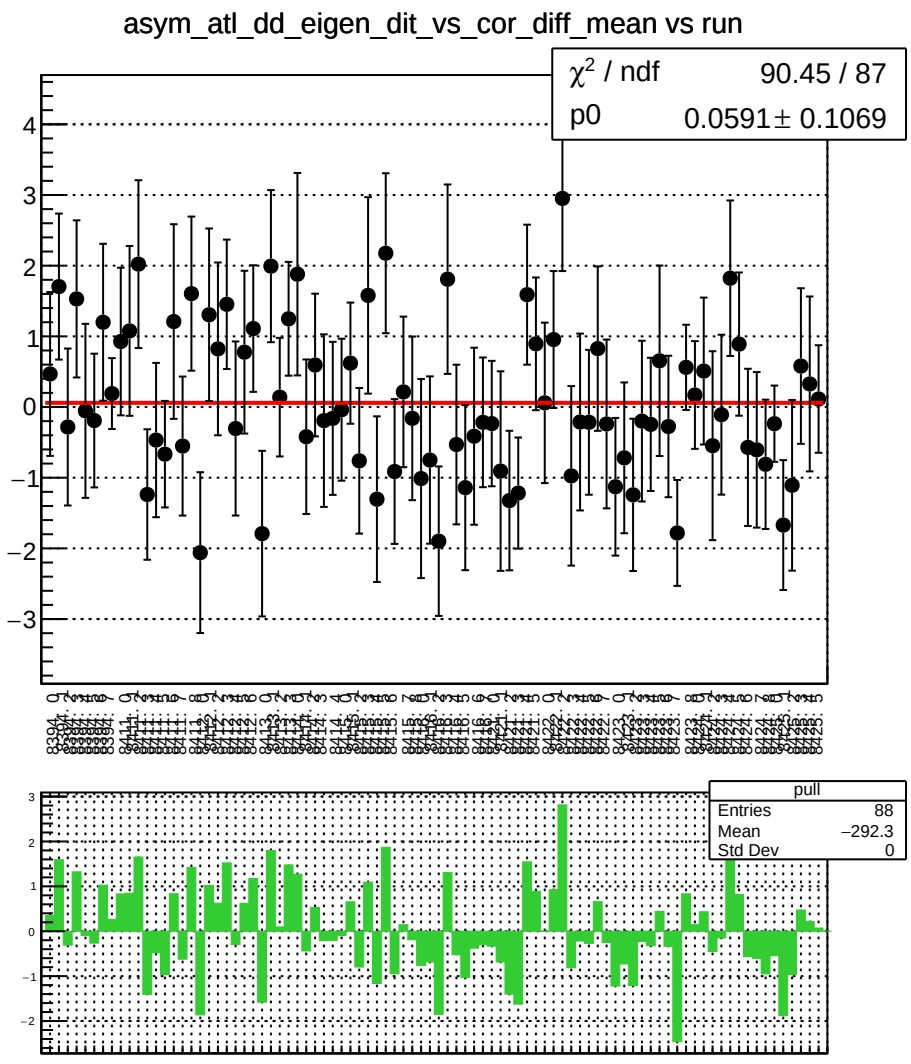

pull1D
Entries 88
Mean 0.01799
Std Dev 1.014

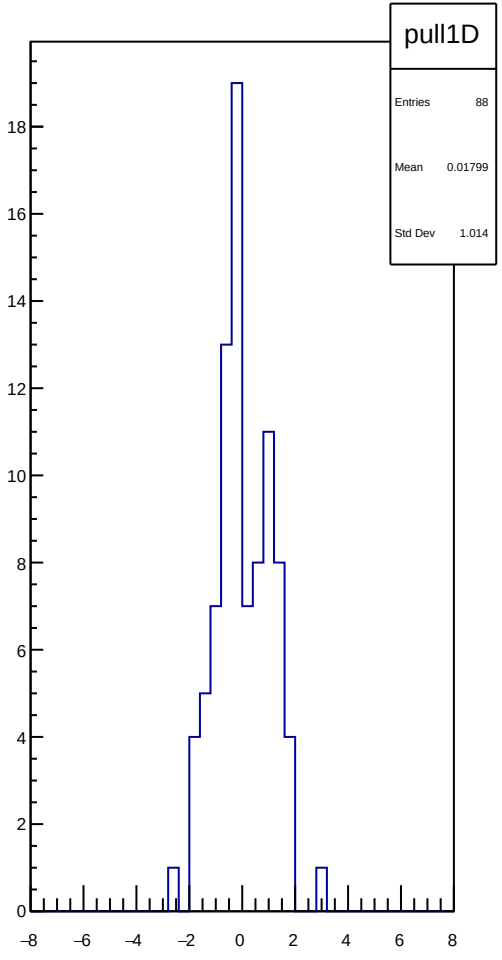

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.013e+04 / 87
p0 96.56 ± 0.07557
140
120
100
80
60

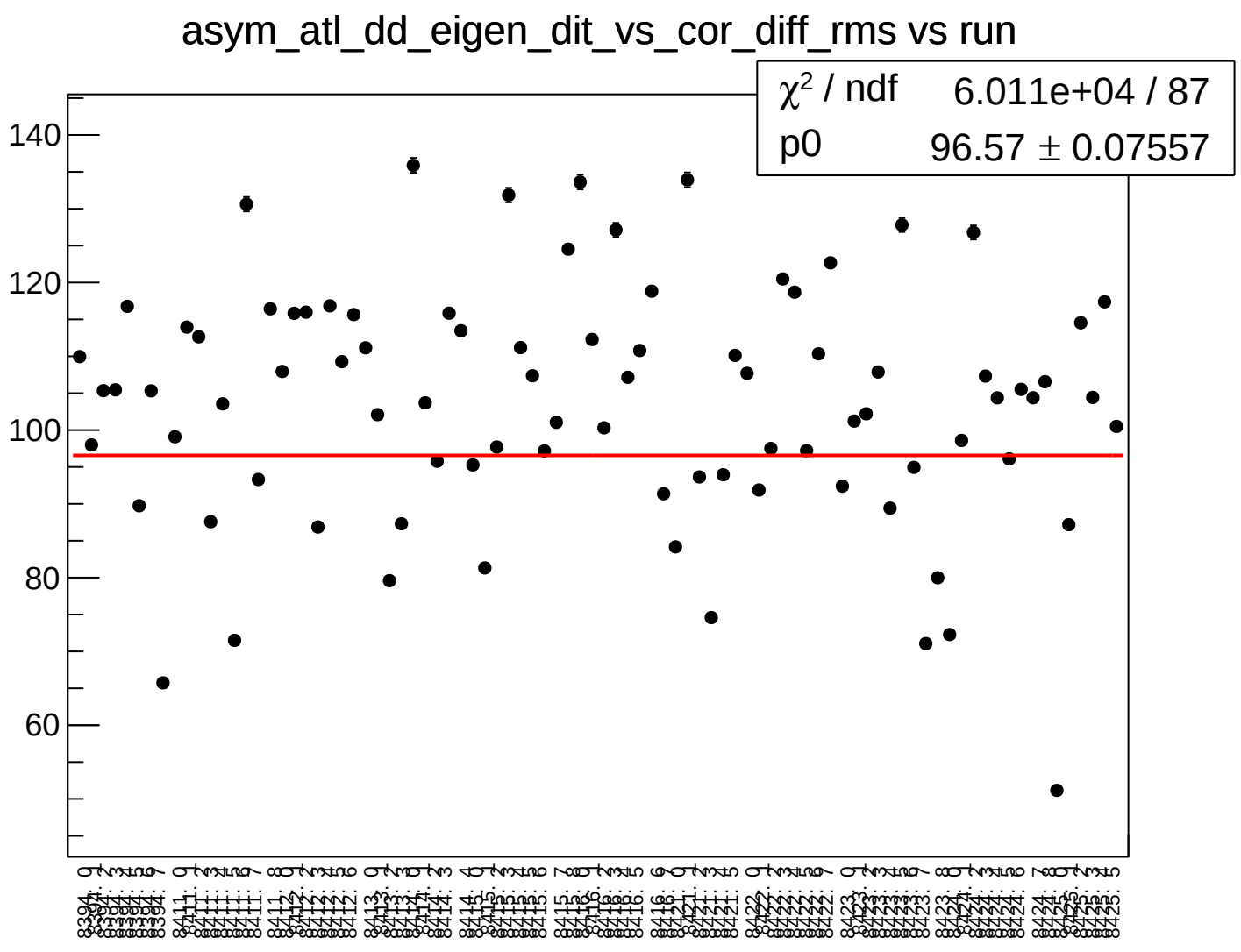

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 66.92 / 87
p0 −1.854e−05 ± 2.093e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean 219.9
Std Dev 0

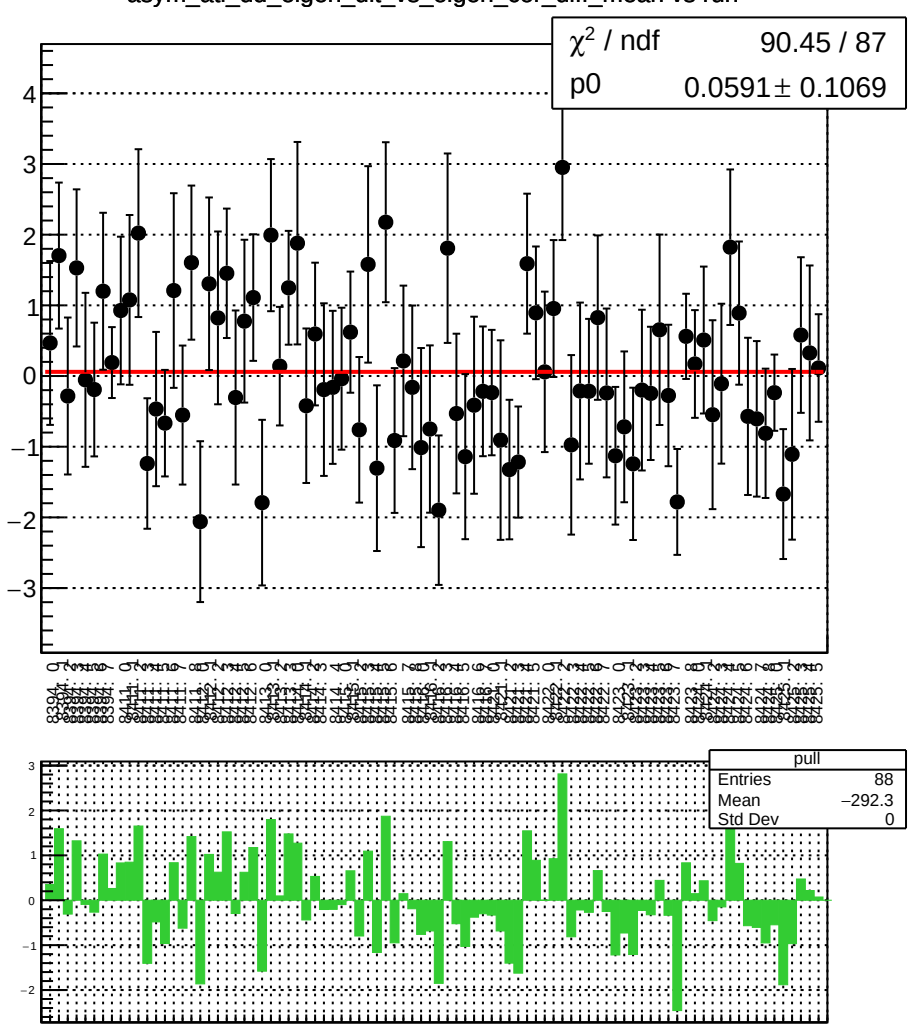

pull1D
Entries 88
Mean −0.01562
Std Dev 0.8719

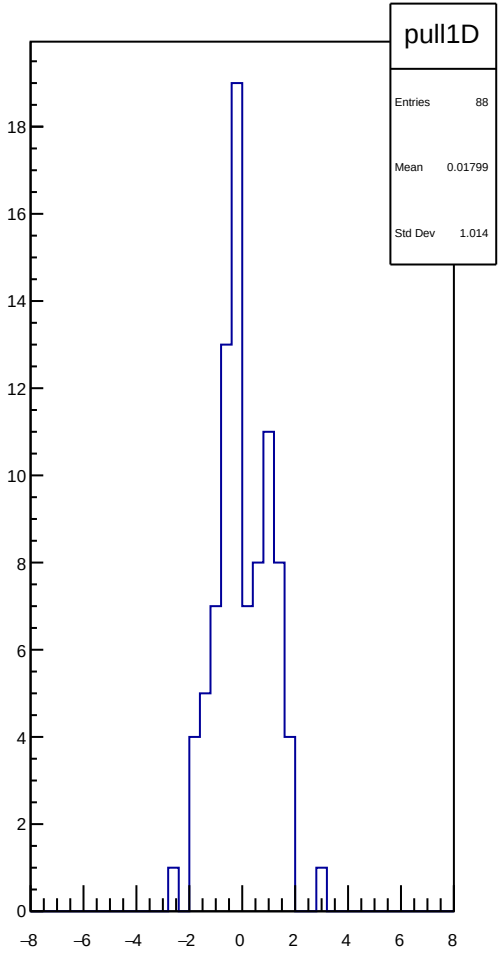

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.655e+05 / 87
p0 0.01829 ± 1.48e−05
0.035
0.03
0.025
0.02
0.015

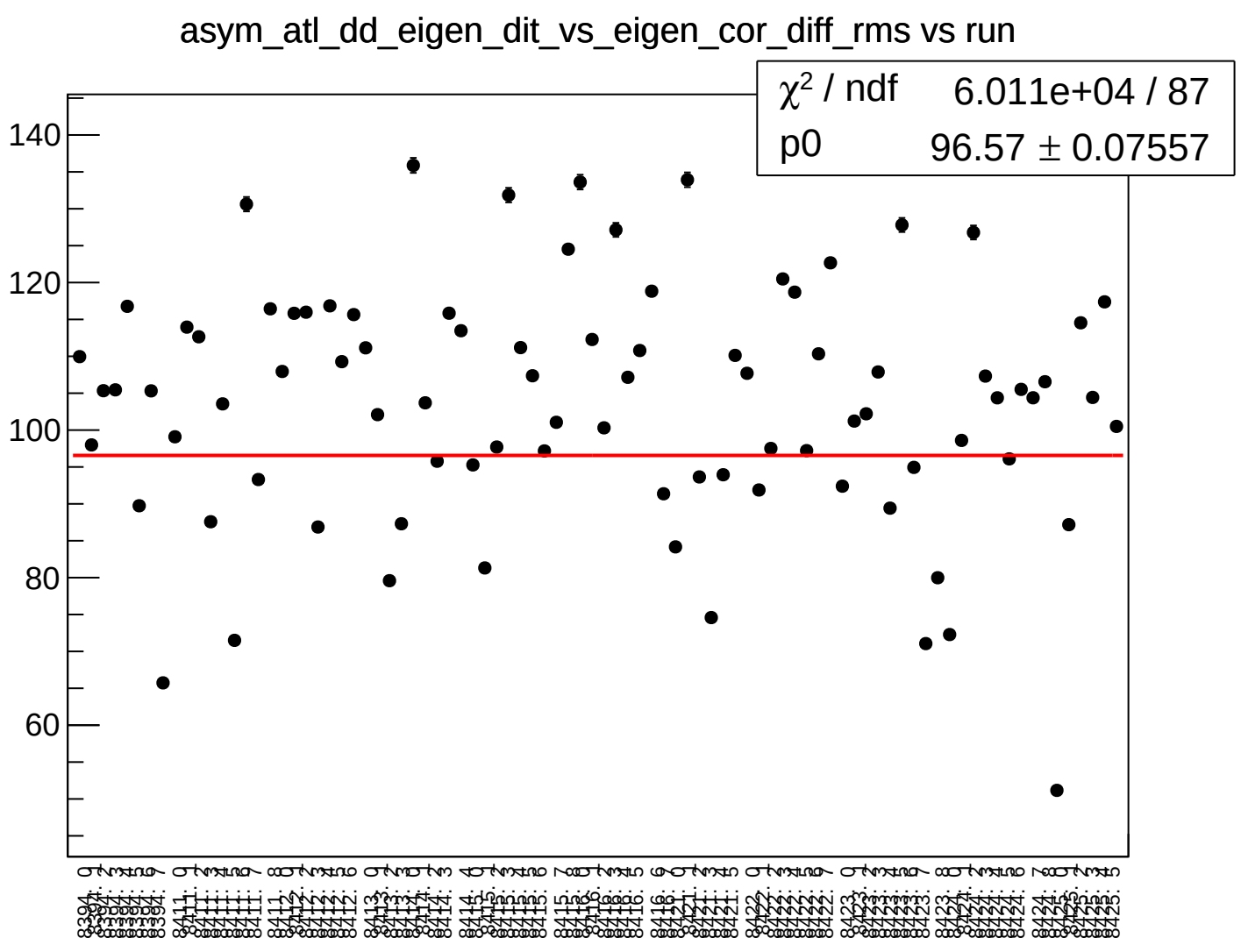

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.45 / 87
p0 0.0591 ± 0.1069
pull
Entries 88
Mean −292.3
Std Dev 0

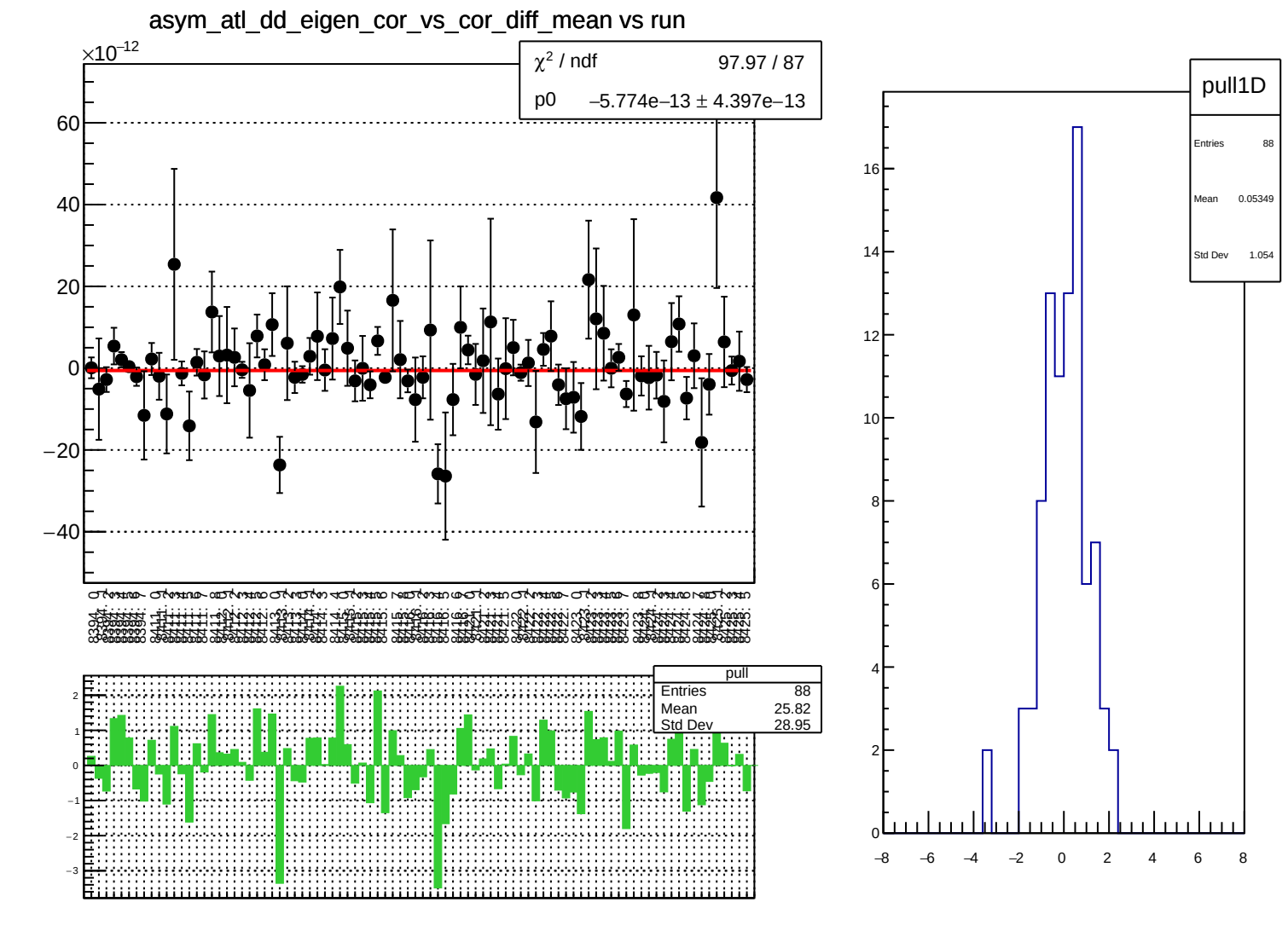

pull1D
Entries 88
Mean 0.01799
Std Dev 1.014

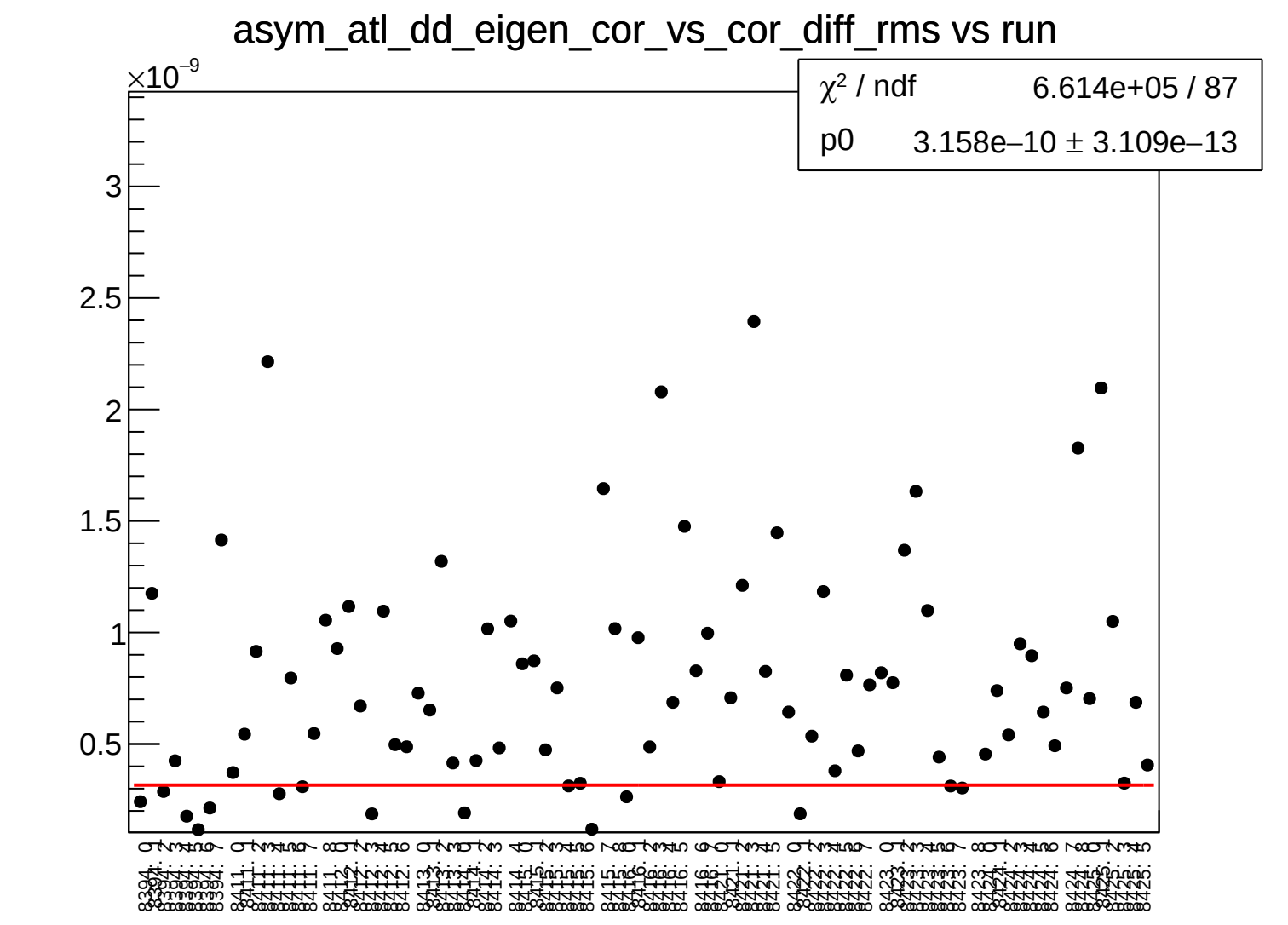

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.011e+04 / 87
p0 96.57 ± 0.07557
140
120
100
80
60

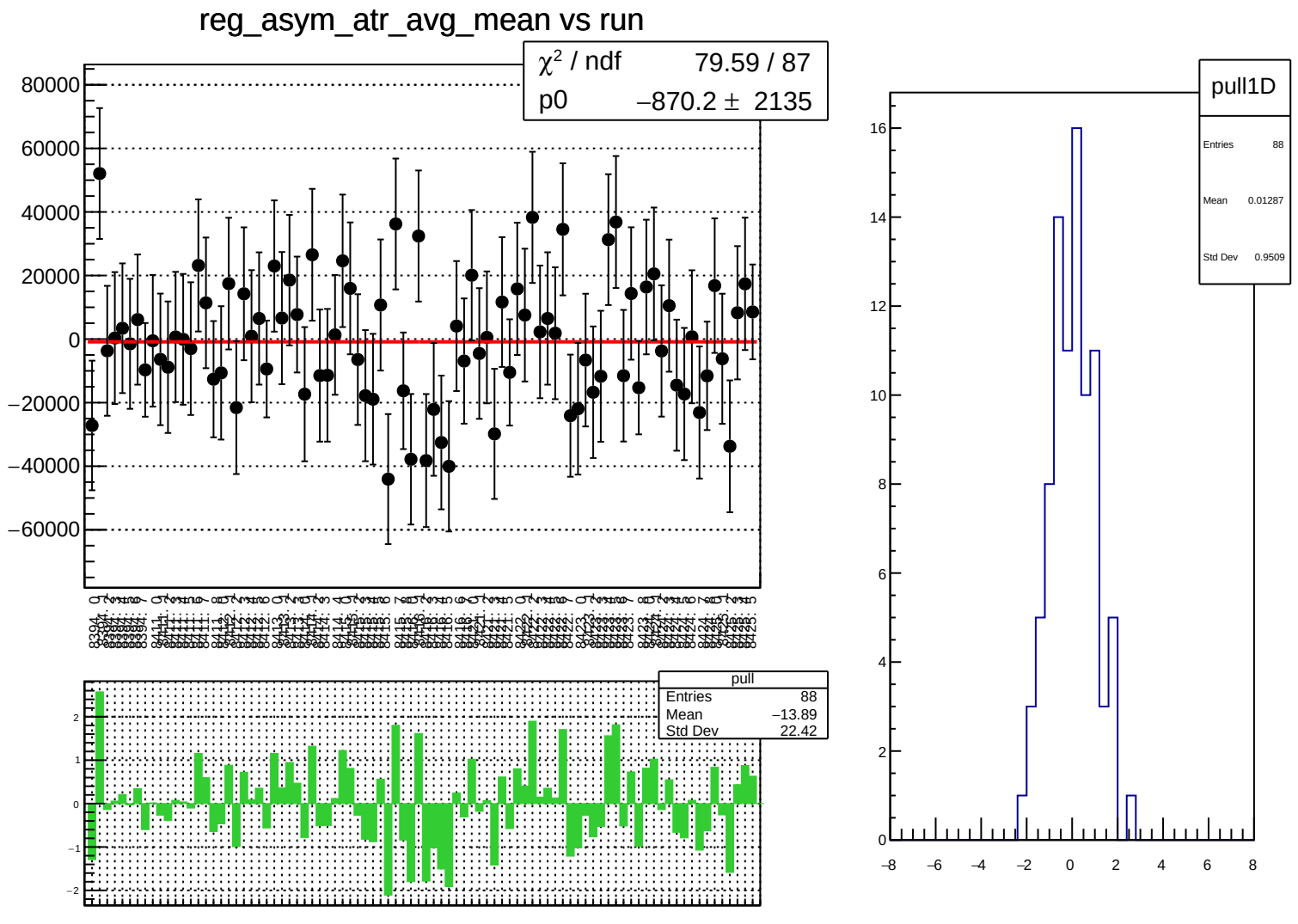

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.45 / 87
p0 0.0591 ± 0.1069
pull
Entries 88
Mean −292.3
Std Dev 0

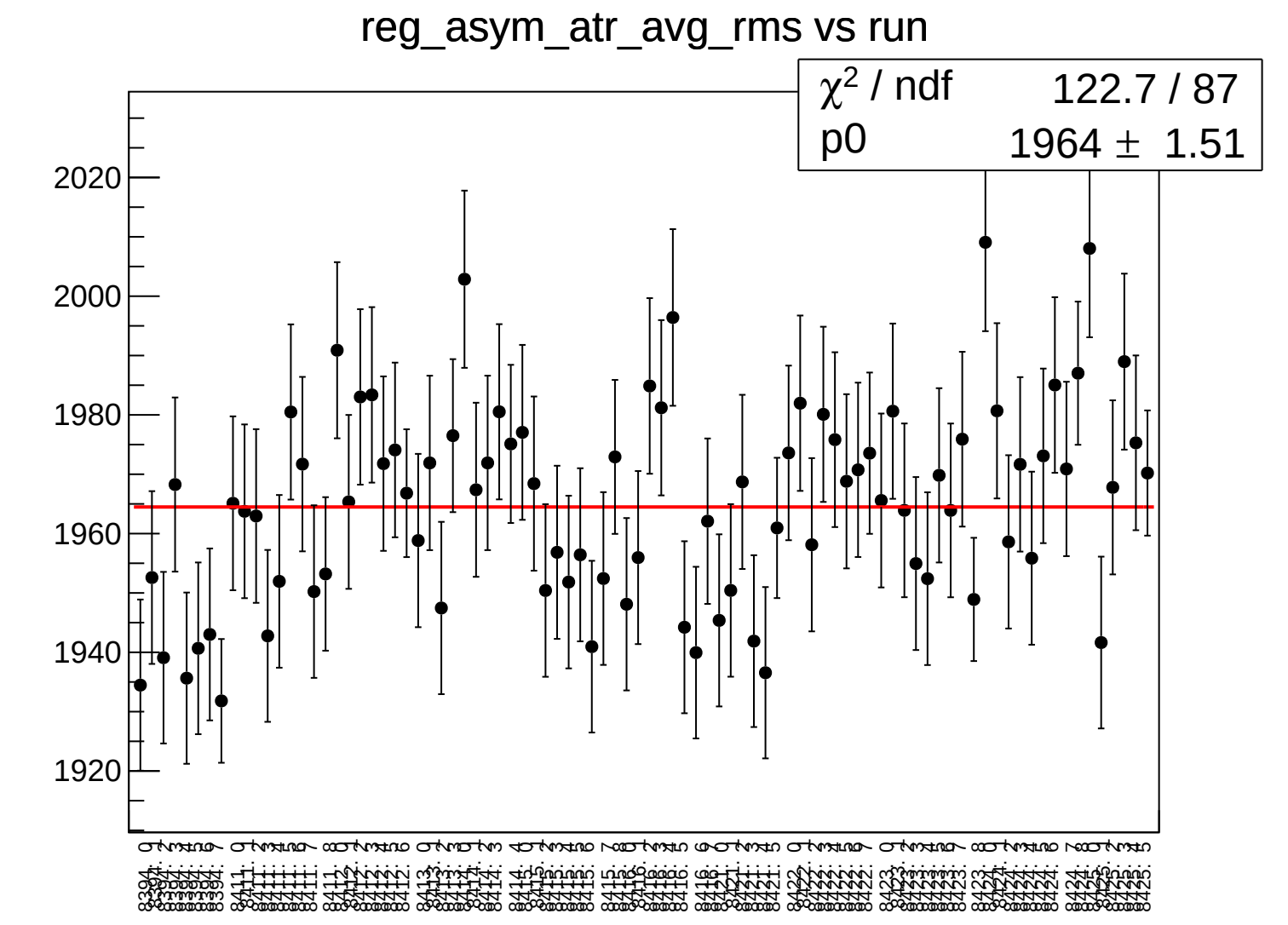

pull1D
Entries 88
Mean 0.01799
Std Dev 1.014

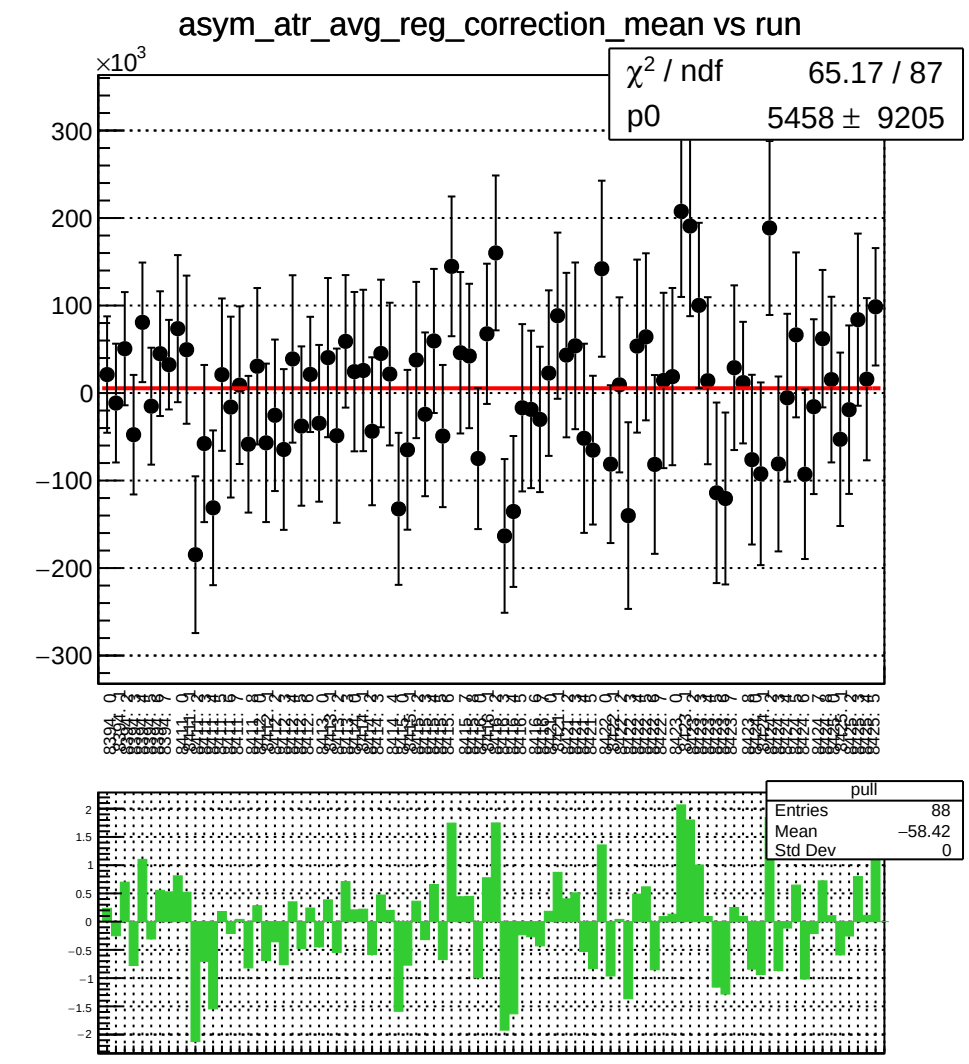

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.011e+04 / 87
p0 96.57 ± 0.07557
140
120
100
80
60

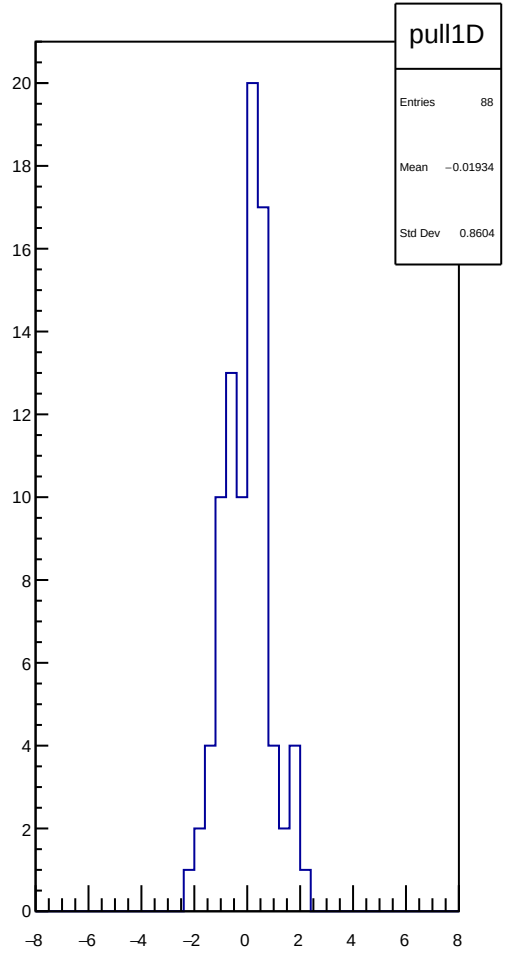

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.97 / 87
p0 −5.774e−13 ± 4.397e−13
60
40
20
0
−20
−40
pull
Entries 88
Mean 25.82
Std Dev 28.95
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.05349
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

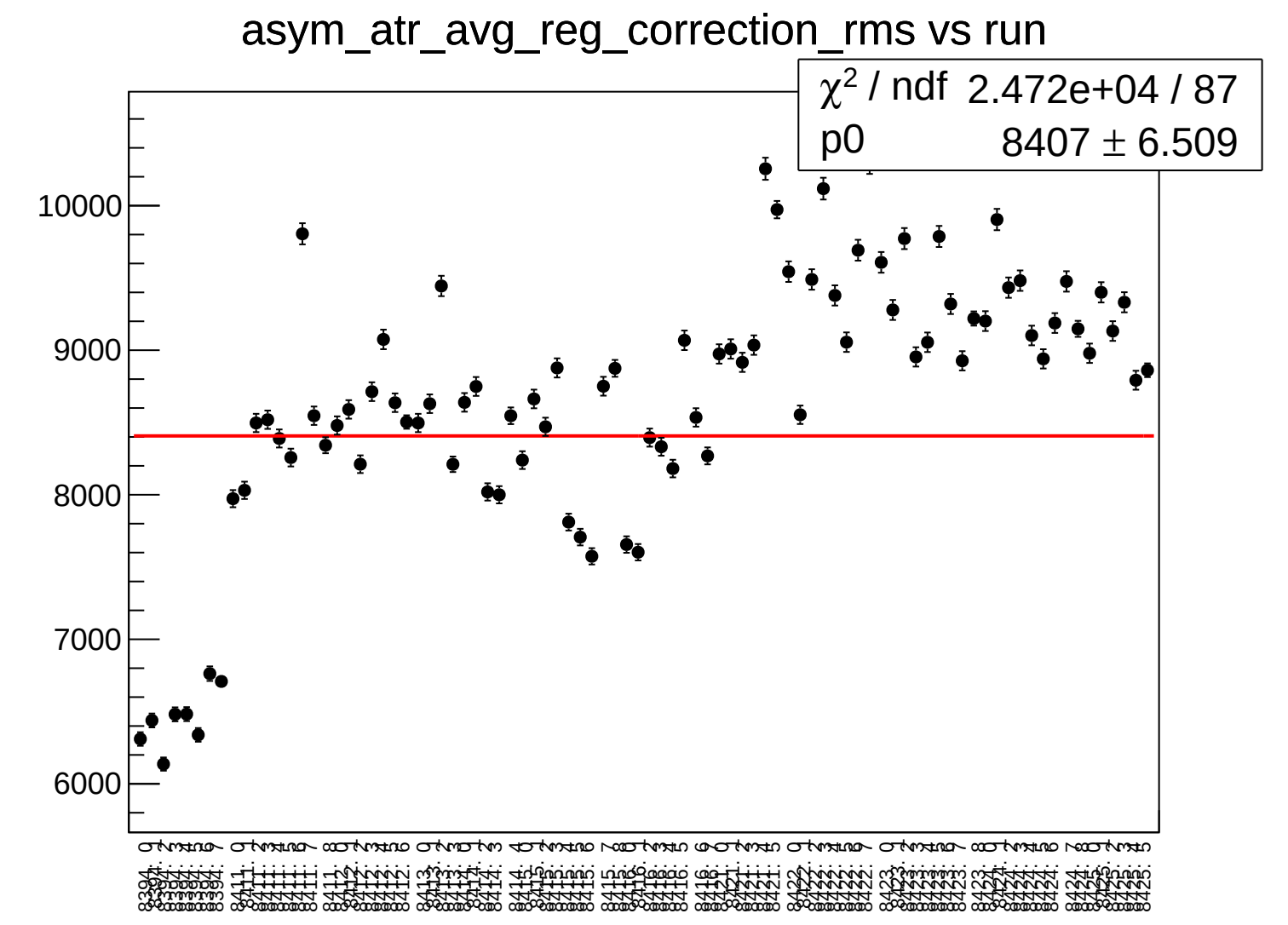

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.614e+05 / 87
p0 3.158e−10 ± 3.109e−13
3
2.5
2
1.5
1
0.5

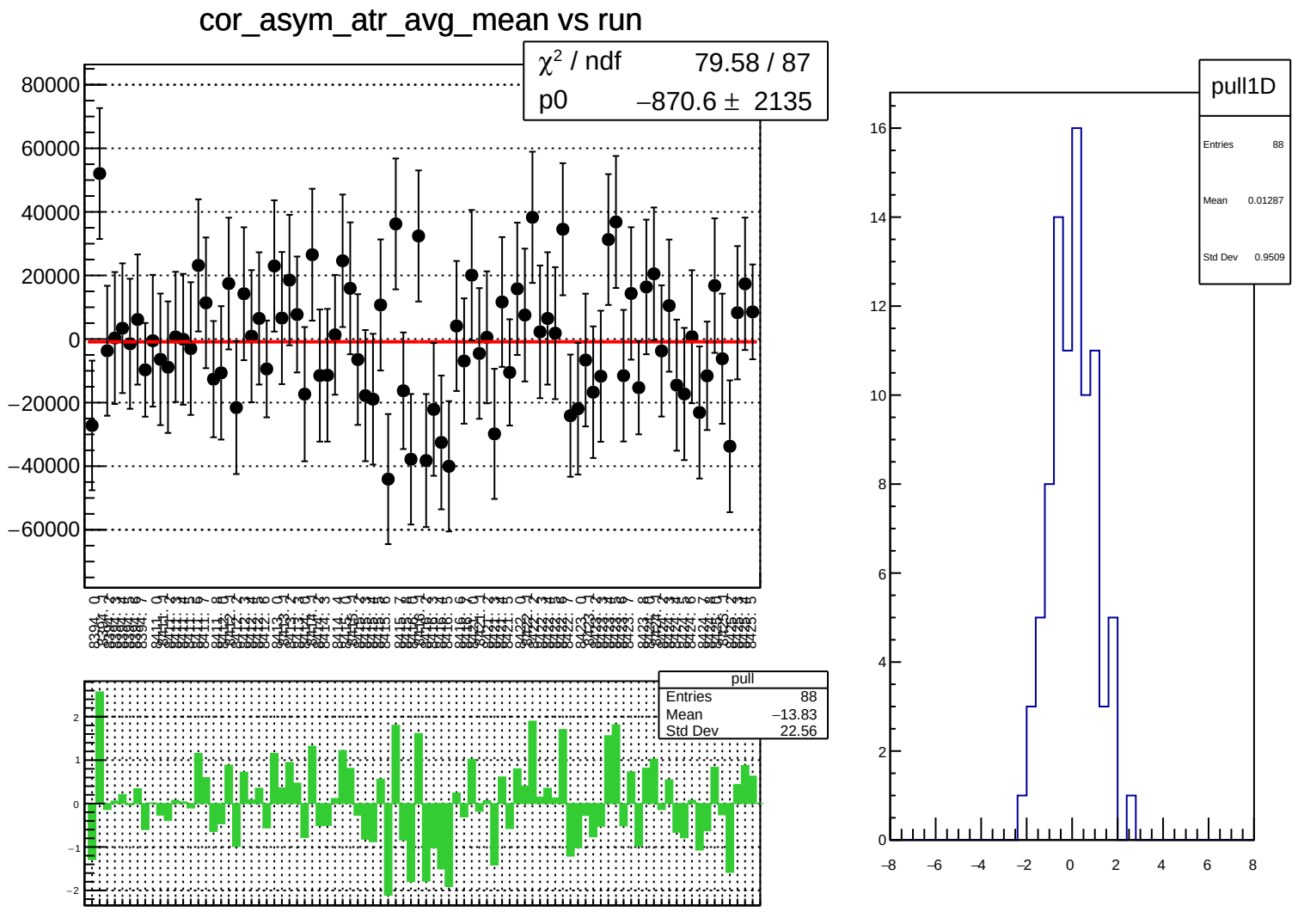

reg_asym_atr_avg_mean vs run
χ² / ndf 79.59 / 87
p0 −870.2 ± 2135
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −13.89
Std Dev 22.42
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01287
Std Dev 0.9509
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

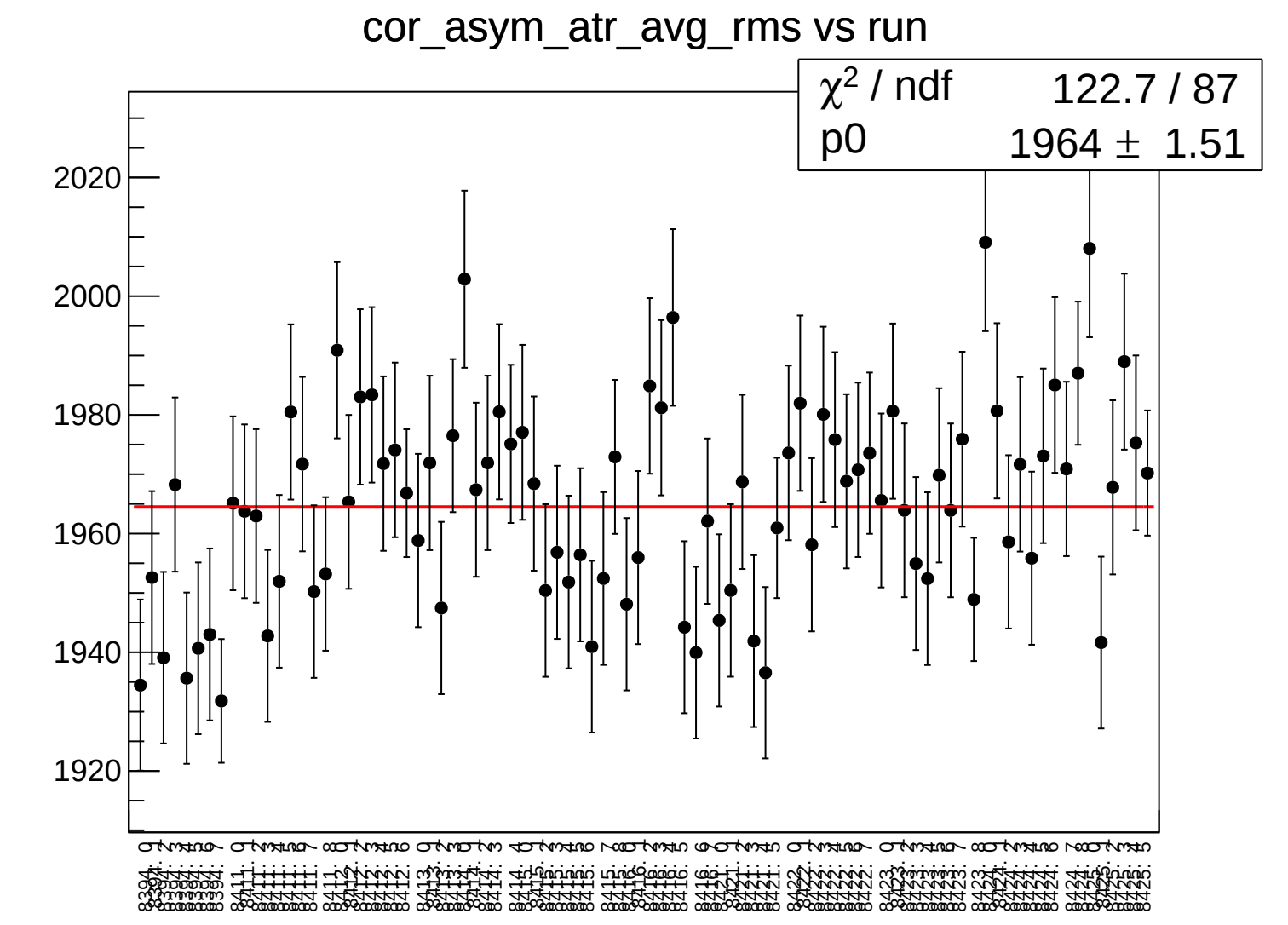

reg_asym_atr_avg_rms vs run
χ^2 / ndf 122.7 / 87
p0 1964 ± 1.51
2020
2000
1980
1960
1940
1920

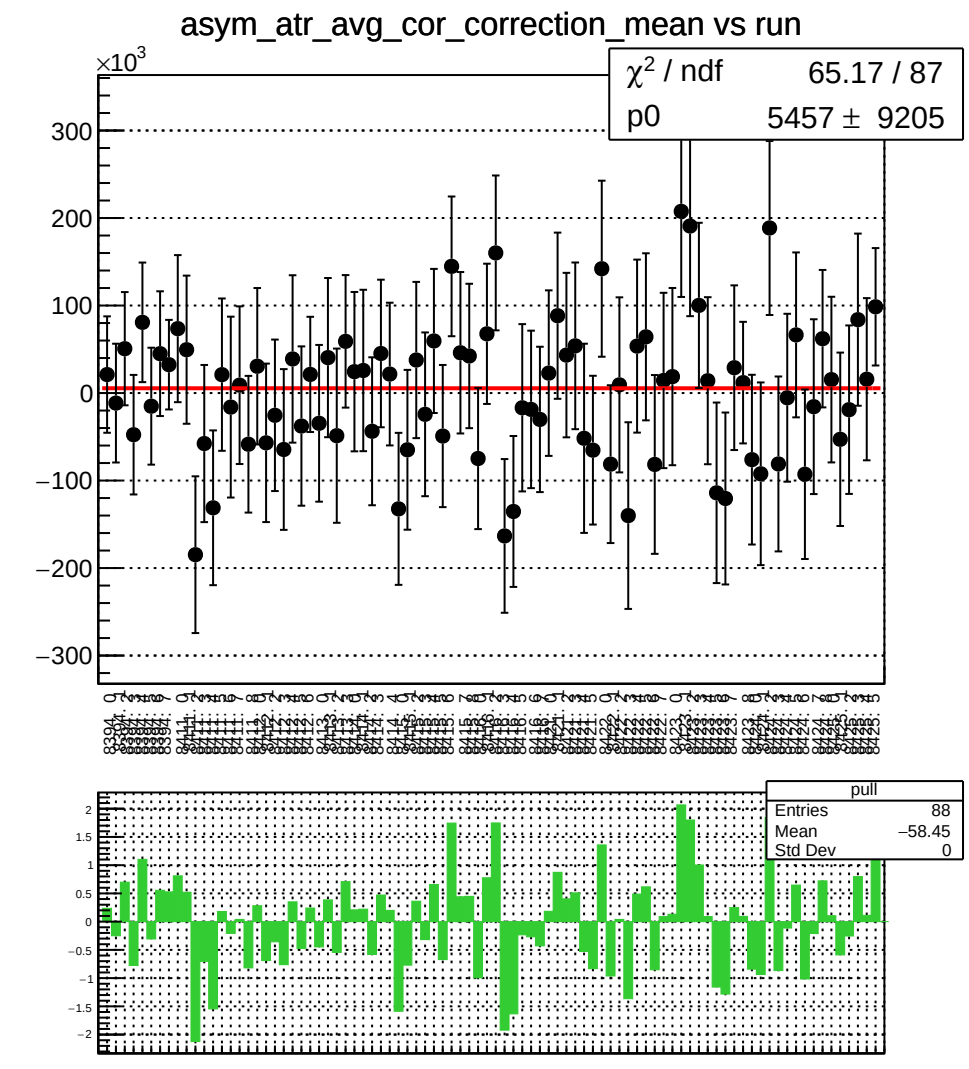

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 65.17 / 87
p0 5458 ± 9205
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −58.42
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

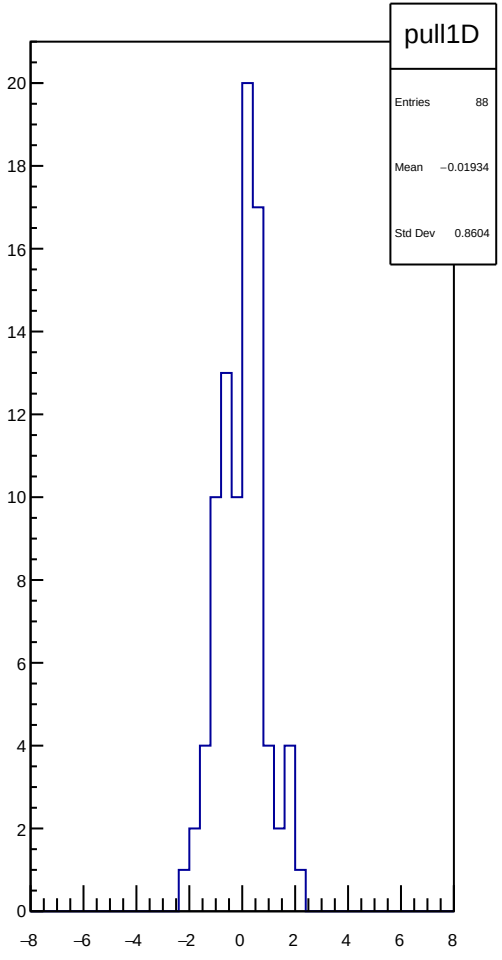

pull1D
Entries 88
Mean −0.01934
Std Dev 0.8604
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

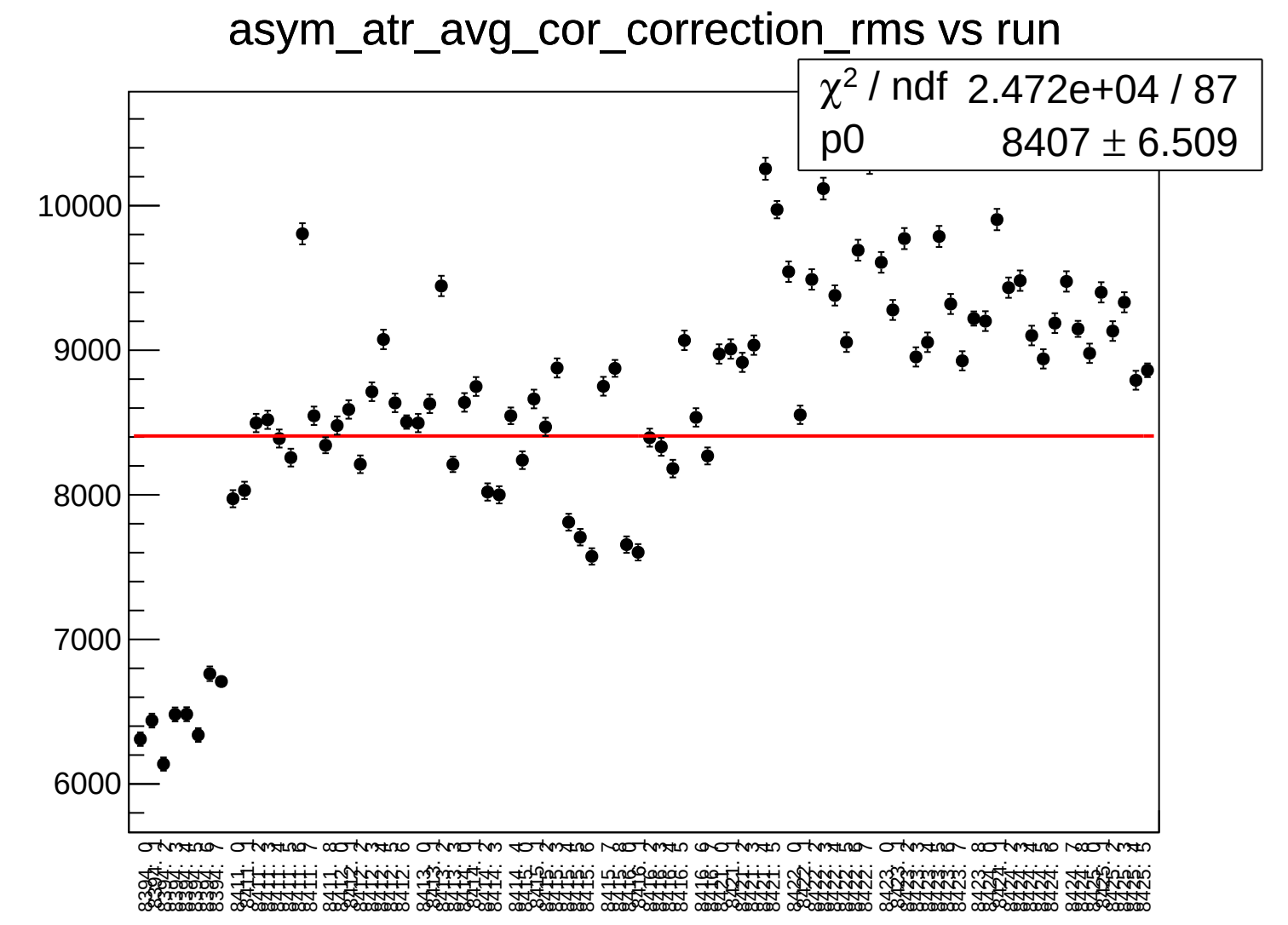

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 2.472e+04 / 87
p0 8407 ± 6.509
10000
9000
8000
7000
6000

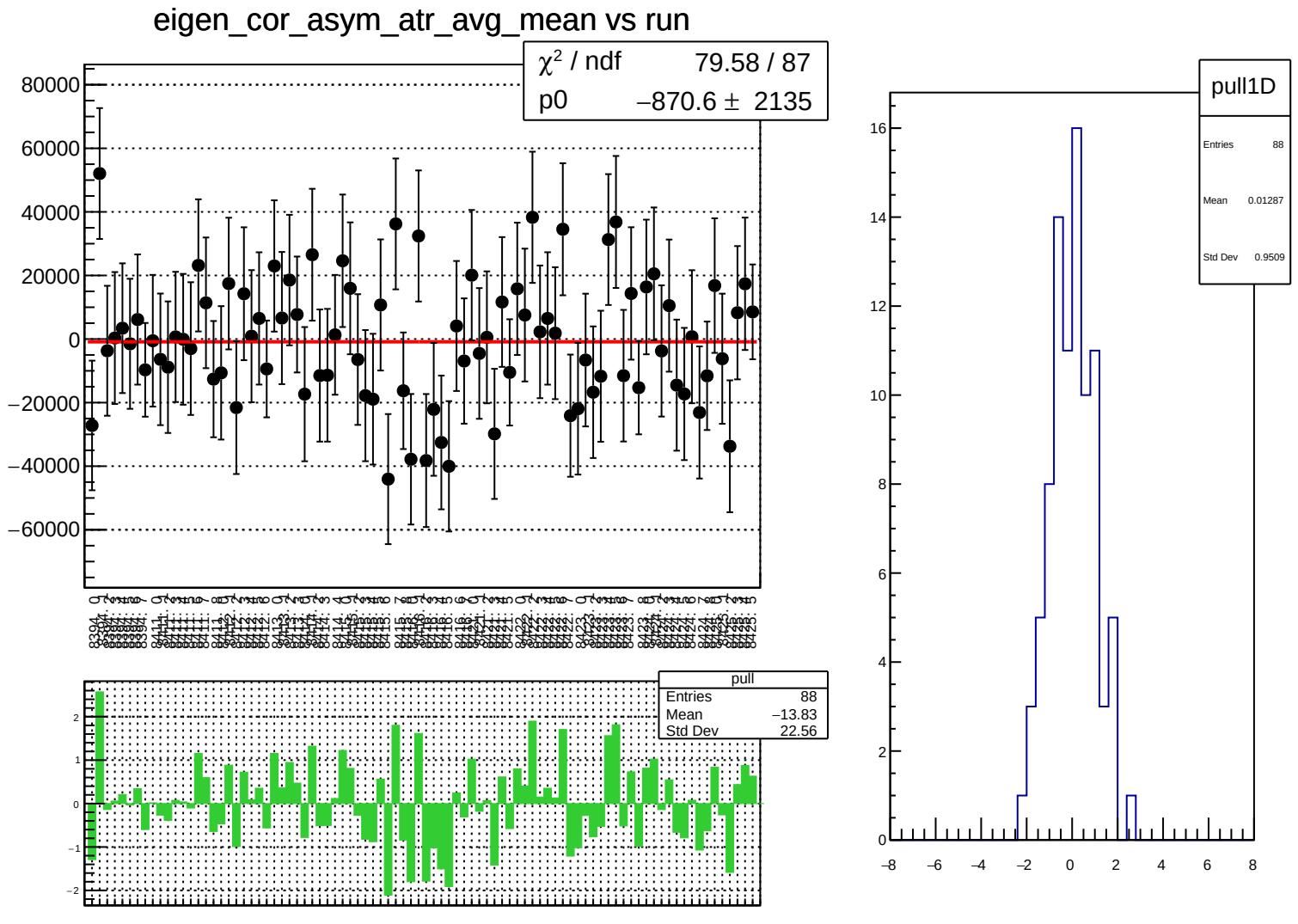

cor_asym_atr_avg_mean vs run
χ² / ndf 79.58 / 87
p0 −870.6 ± 2135
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −13.83
Std Dev 22.56
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01287
Std Dev 0.9509
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

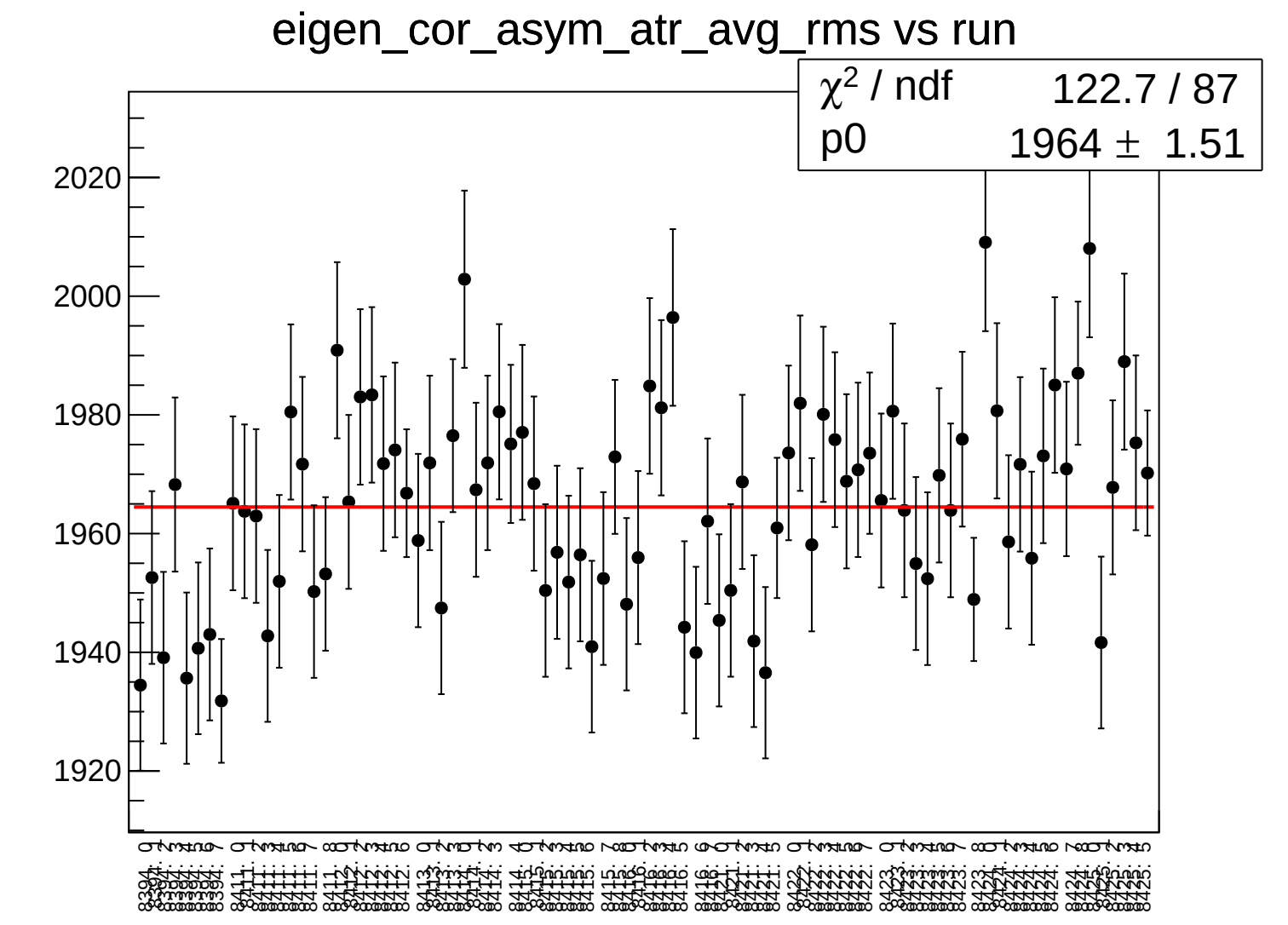

cor_asym_atr_avg_rms vs run
χ^2 / ndf 122.7 / 87
p0 1964 ± 1.51
2020
2000
1980
1960
1940
1920

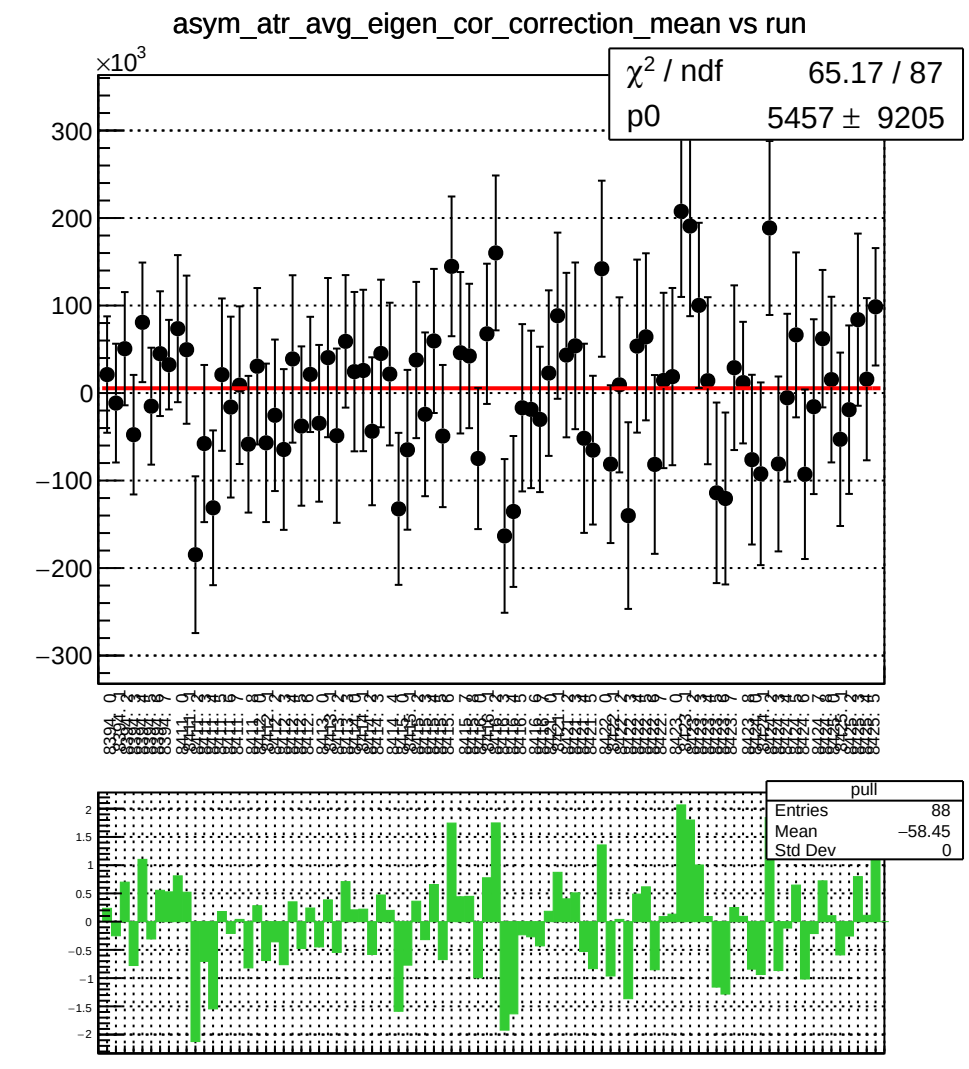

asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 65.17 / 87
p0 5457 ± 9205
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −58.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

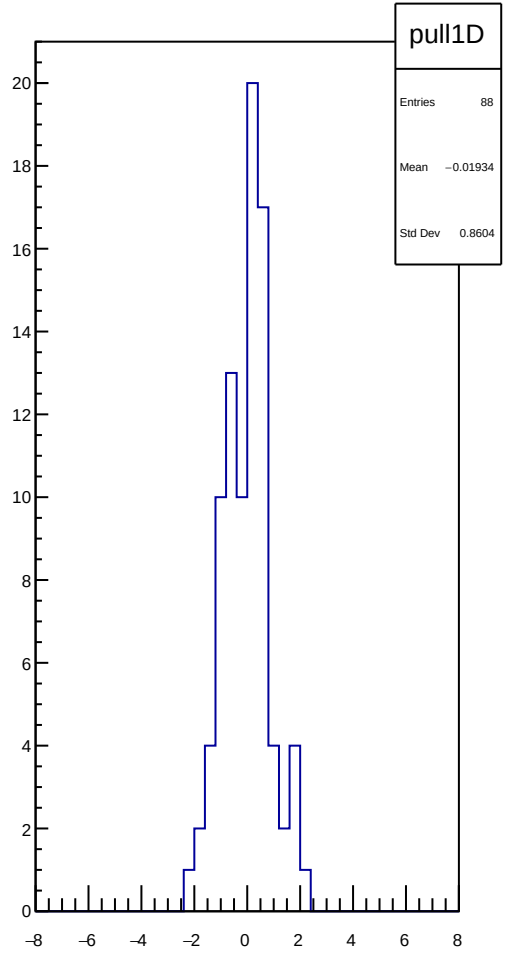

pull1D
Entries 88
Mean −0.01934
Std Dev 0.8604
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

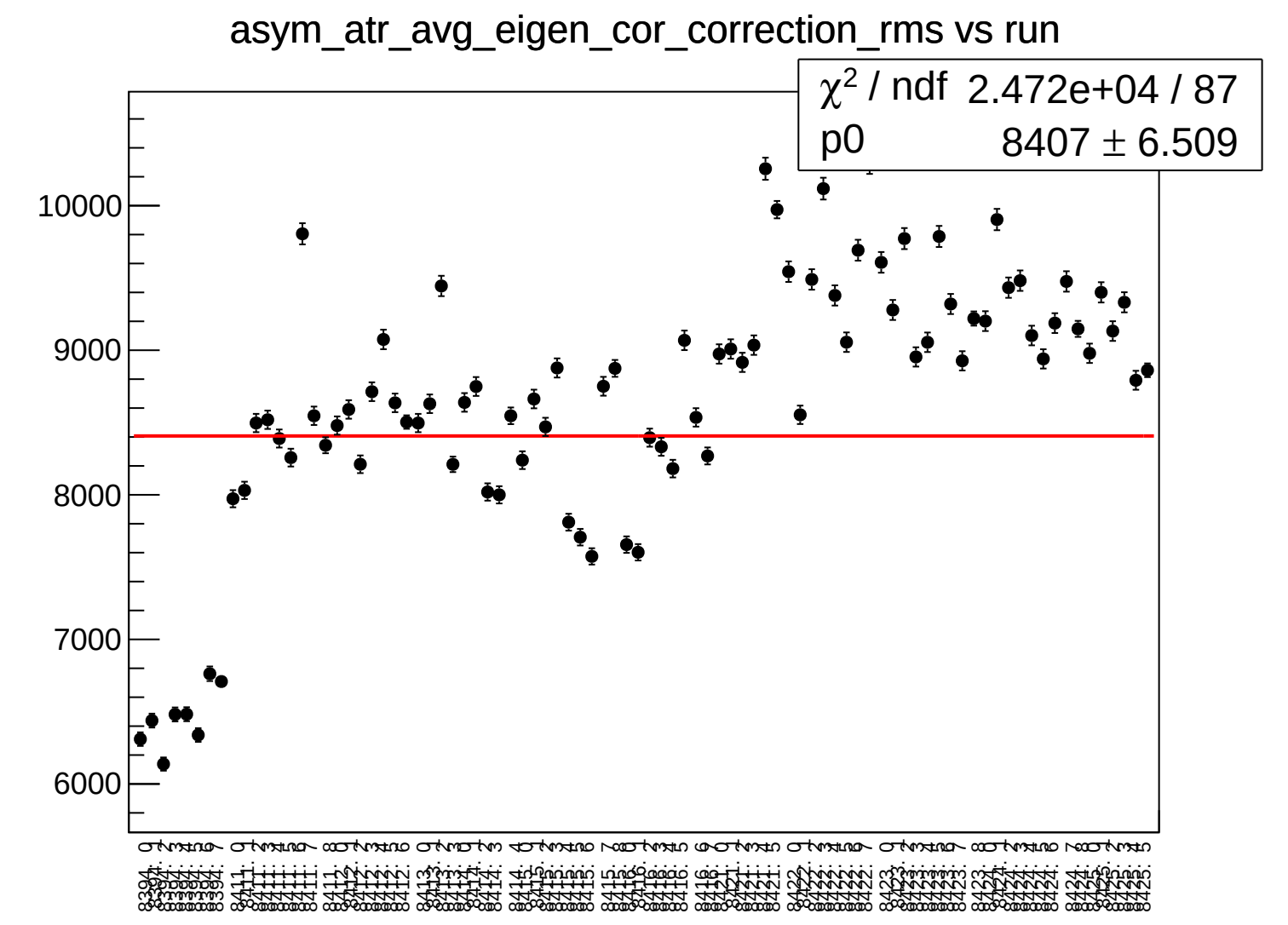

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 2.472e+04 / 87
p0 8407 ± 6.509
10000
9000
8000
7000
6000

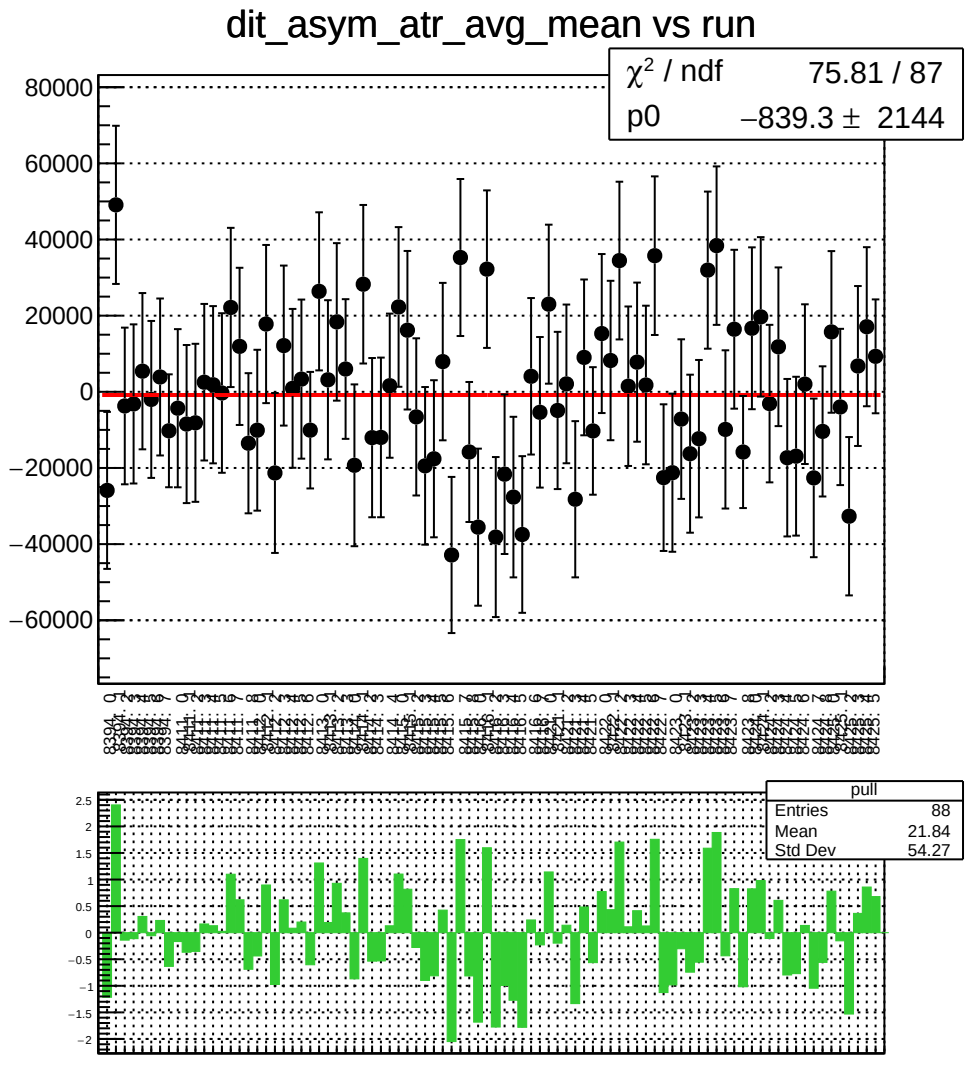

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 79.58 / 87
p0 −870.6 ± 2135
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −13.83
Std Dev 22.56
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01287
Std Dev 0.9509
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

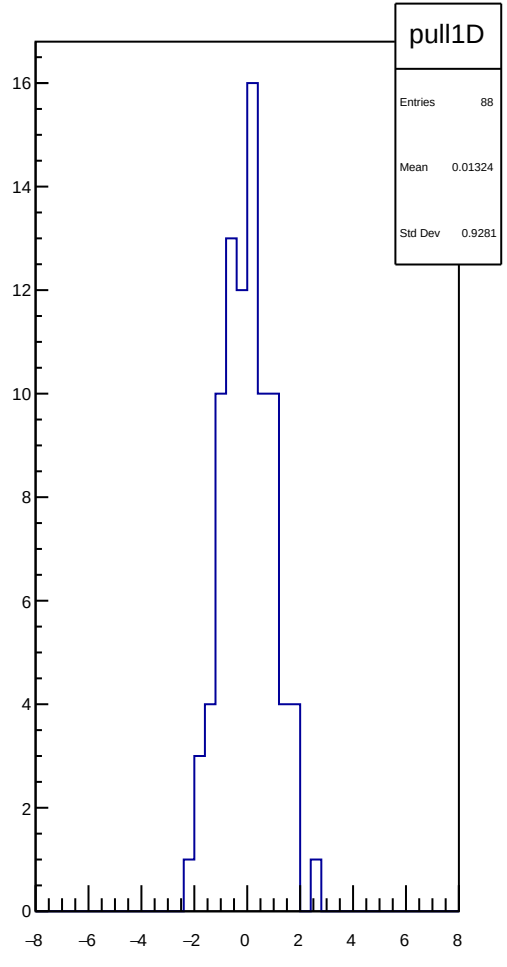

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 122.7 / 87
p0 1964 ± 1.51
2020
2000
1980
1960
1940
1920

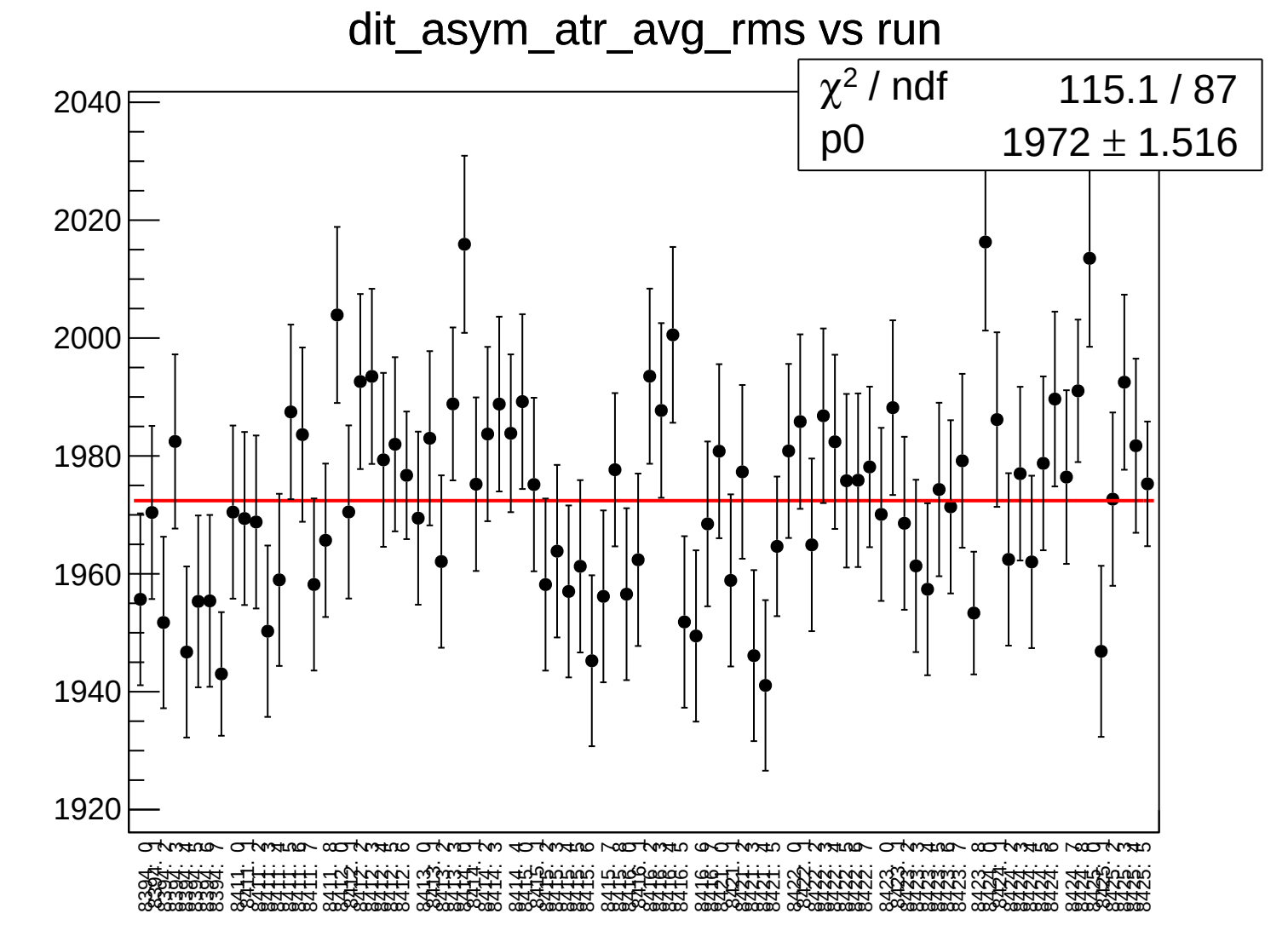

asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 65.17 / 87
p0 5457 ± 9205
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −58.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

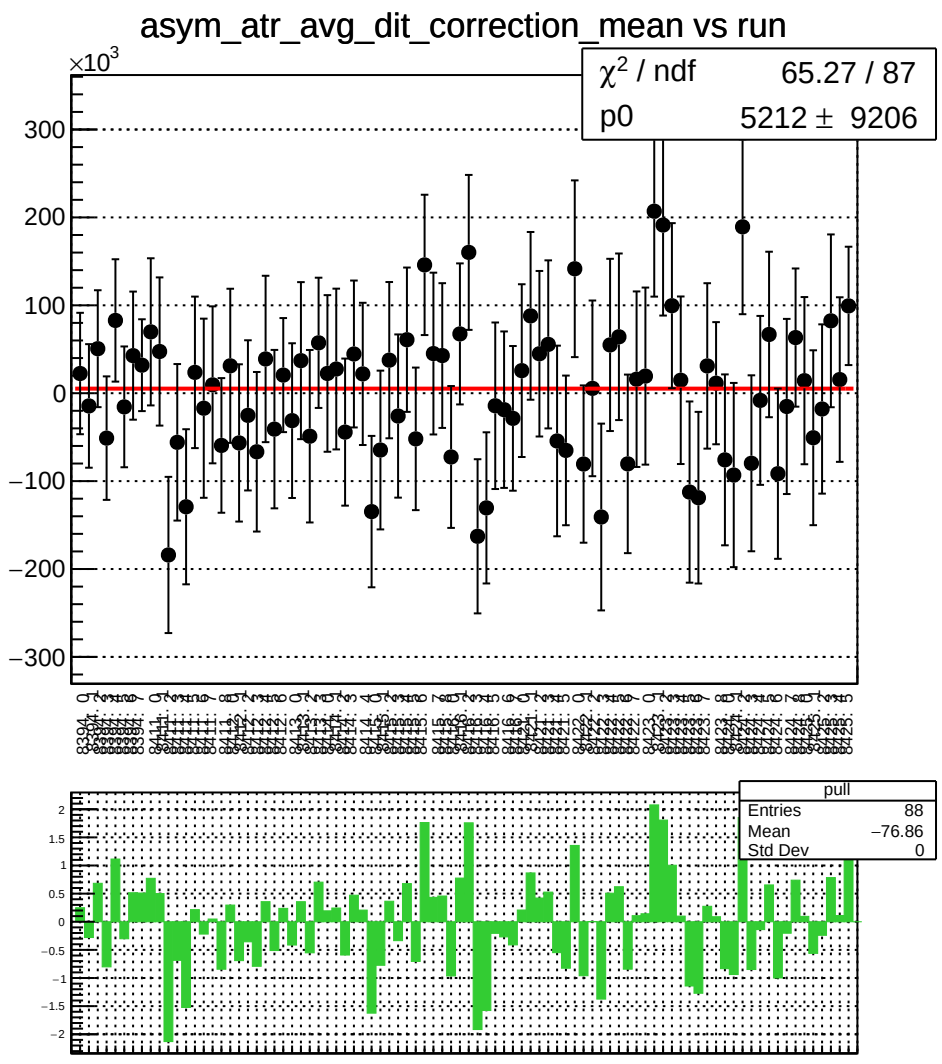

pull1D
Entries 88
Mean −0.01934
Std Dev 0.8604
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

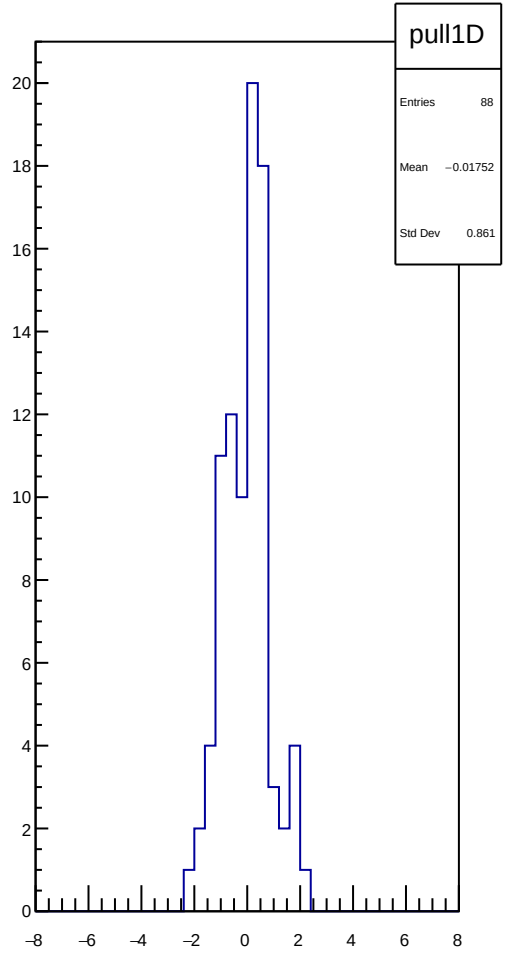

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.472e+04 / 87
p0 8407 ± 6.509
10000
9000
8000
7000
6000

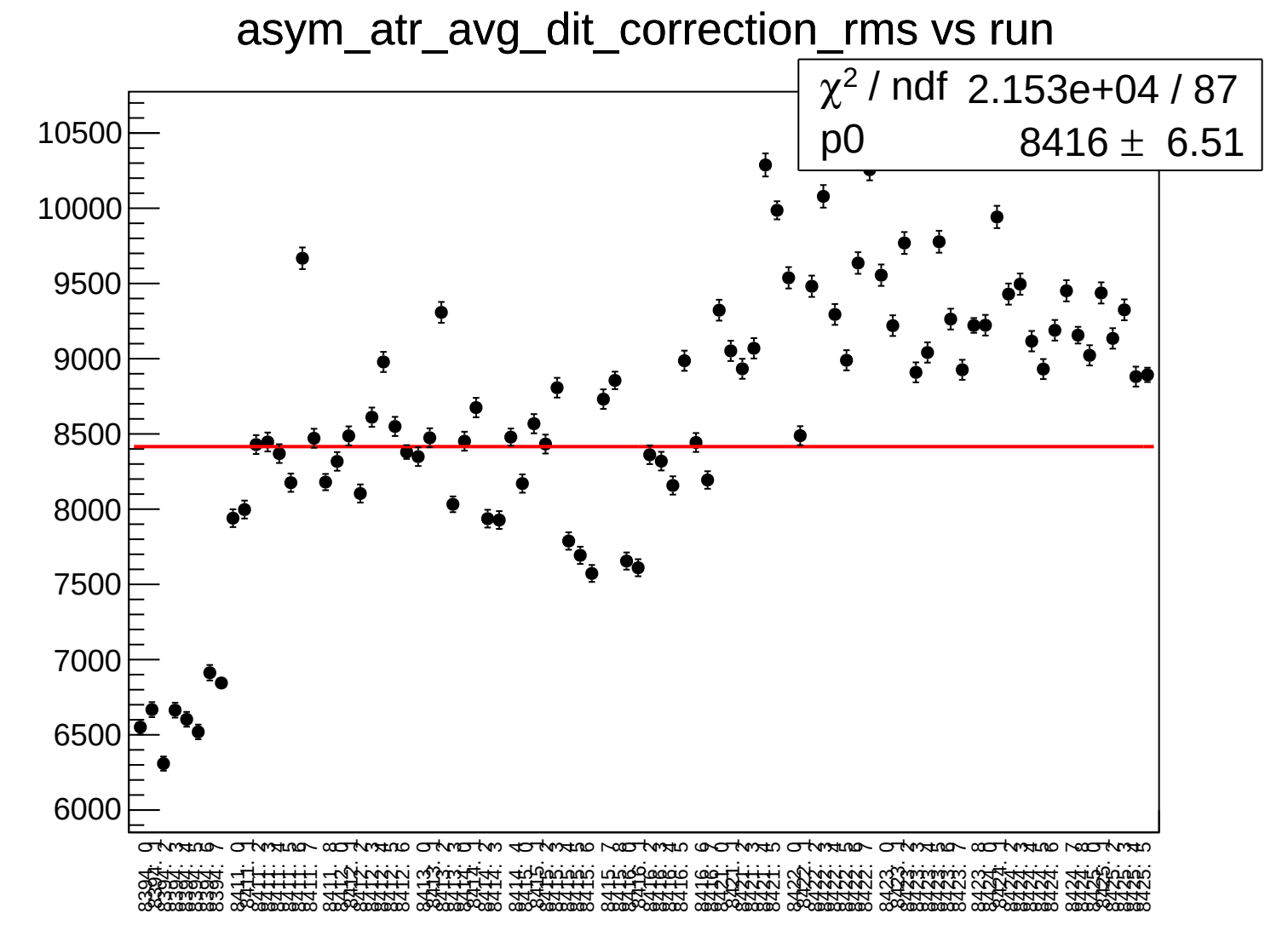

dit_asym_atr_avg_mean vs run
χ² / ndf 75.81 / 87
p0 −839.3 ± 2144
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 21.84
Std Dev 54.27
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

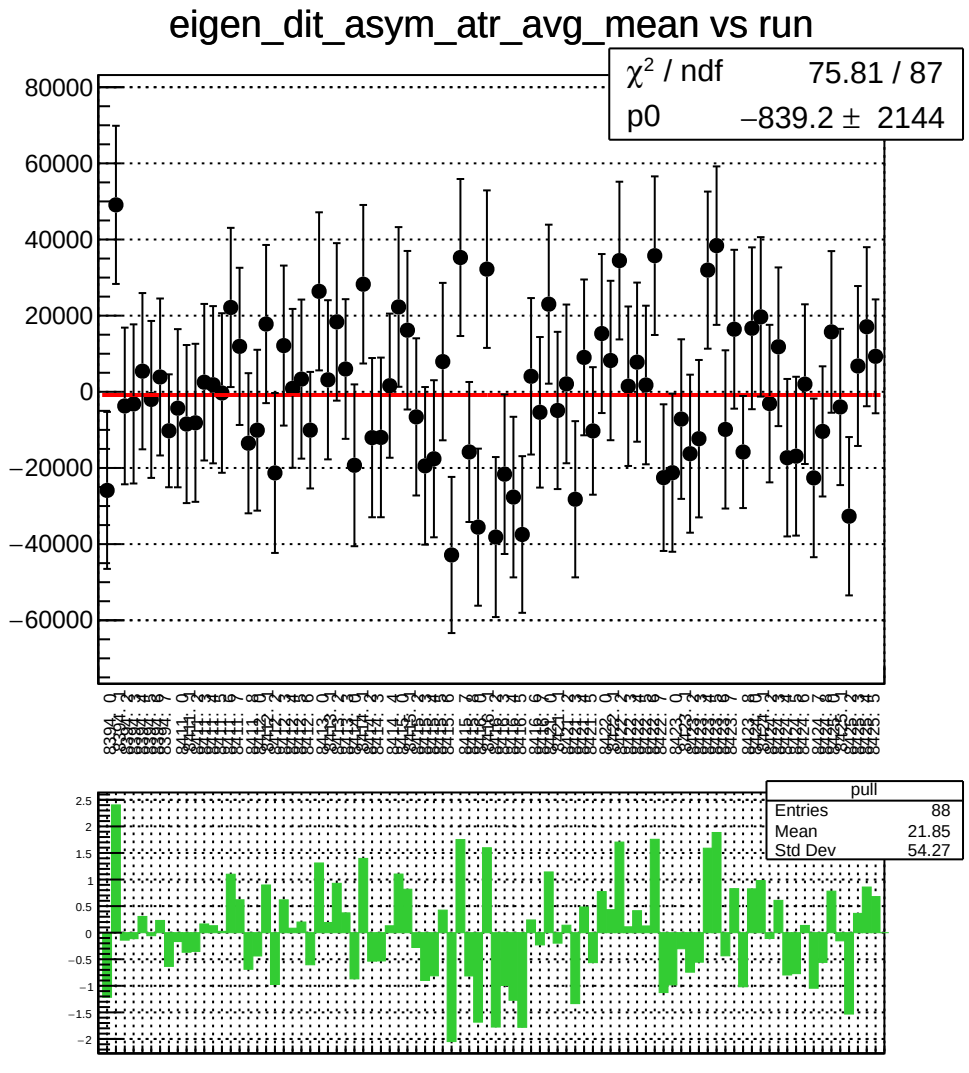

pull1D
Entries 88
Mean 0.01324
Std Dev 0.9281
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

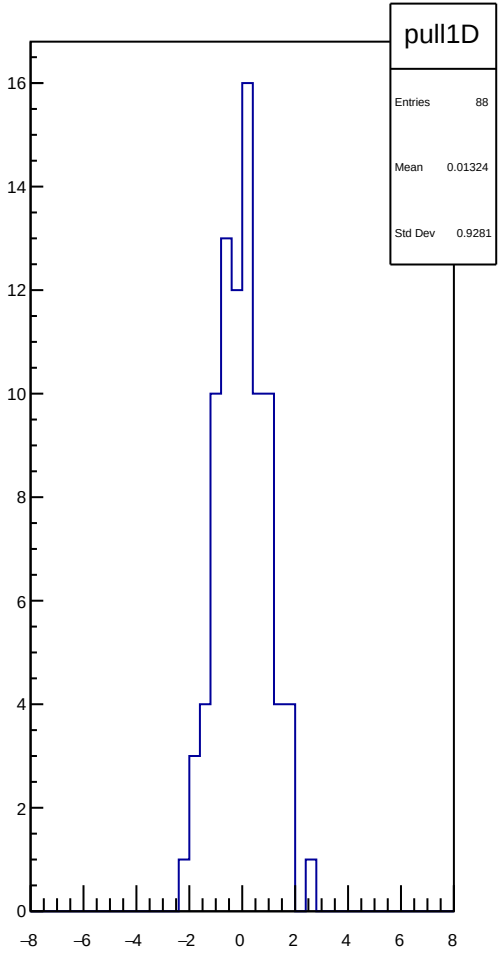

dit_asym_atr_avg_rms vs run
χ² / ndf 115.1 / 87
p0 1972 ± 1.516
2040
2020
2000
1980
1960
1940
1920

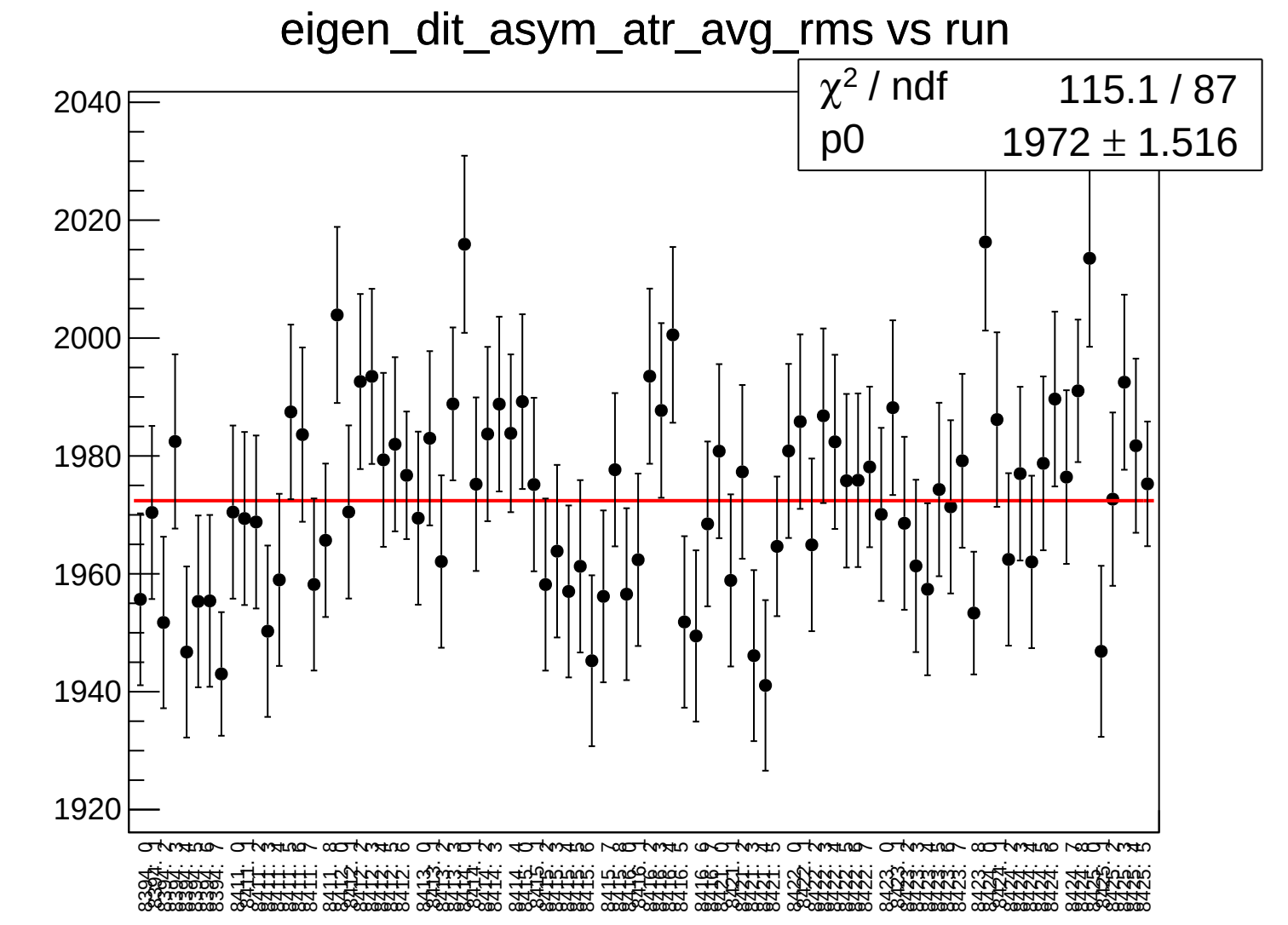

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 65.27 / 87
p0 5212 ± 9206
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −76.86
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

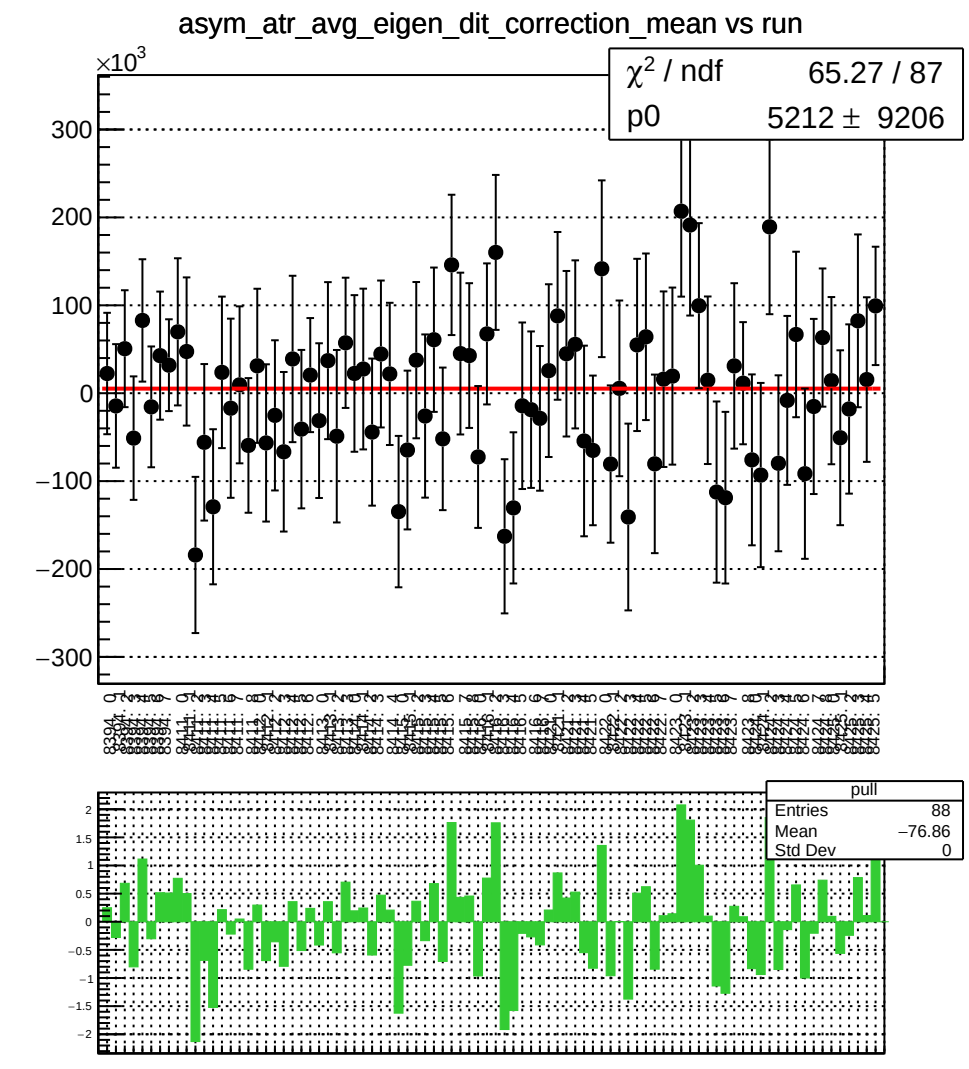

pull1D
Entries 88
Mean −0.01752
Std Dev 0.861
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

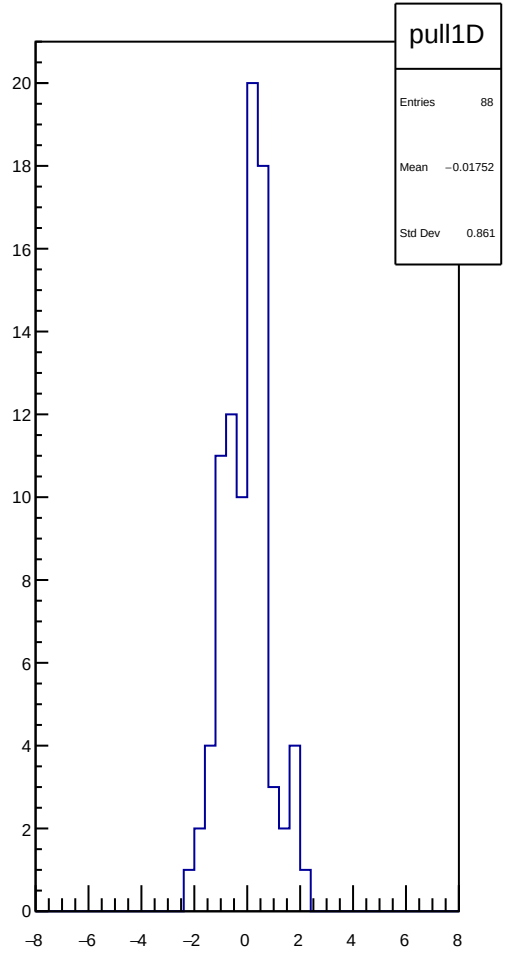

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 2.153e+04 / 87
p0 8416 ± 6.51
10500
10000
9500
9000
8500
8000
7500
7000
6500
6000

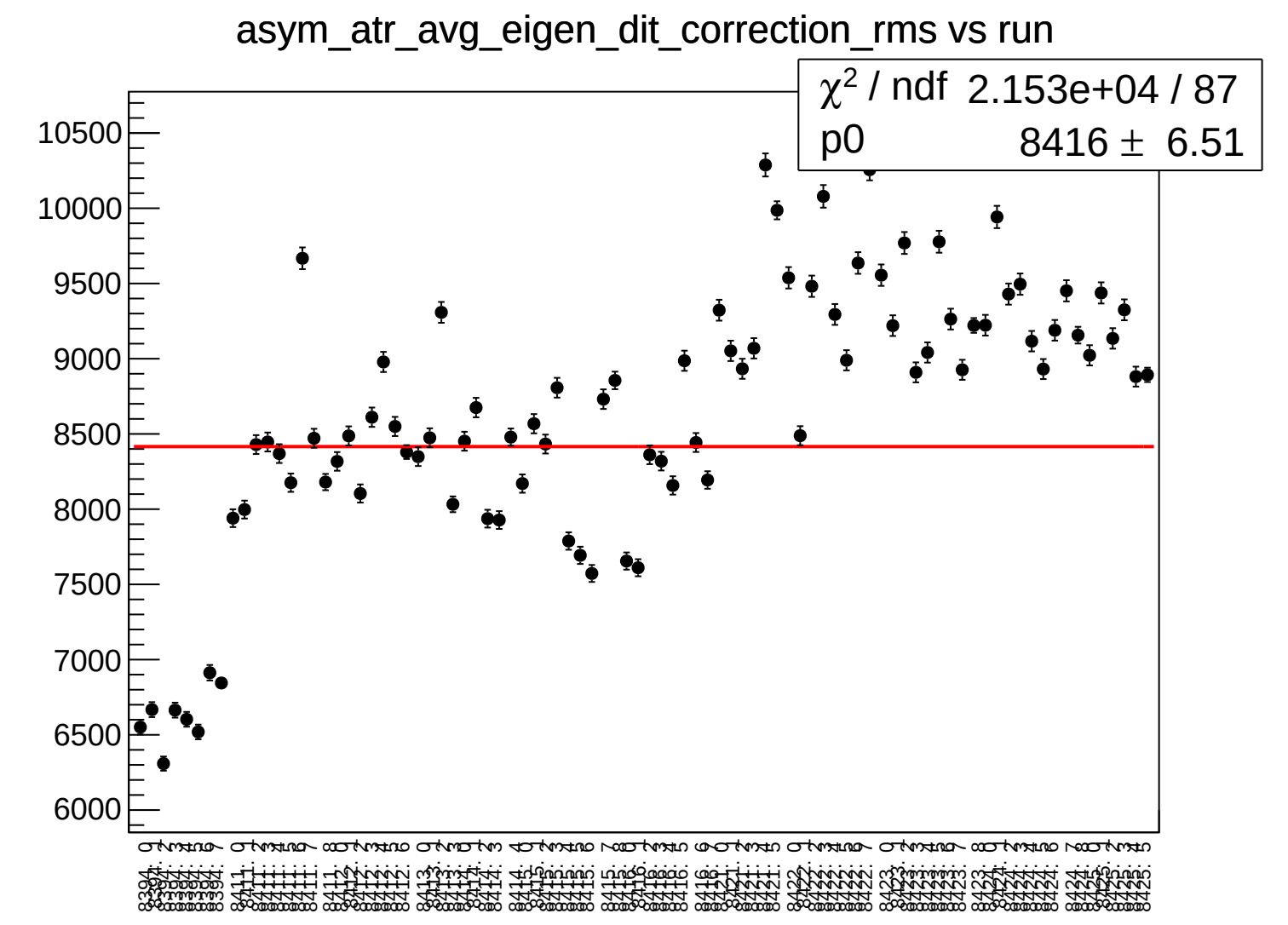

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 75.81 / 87
p0 −839.2 ± 2144
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 21.85
Std Dev 54.27
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

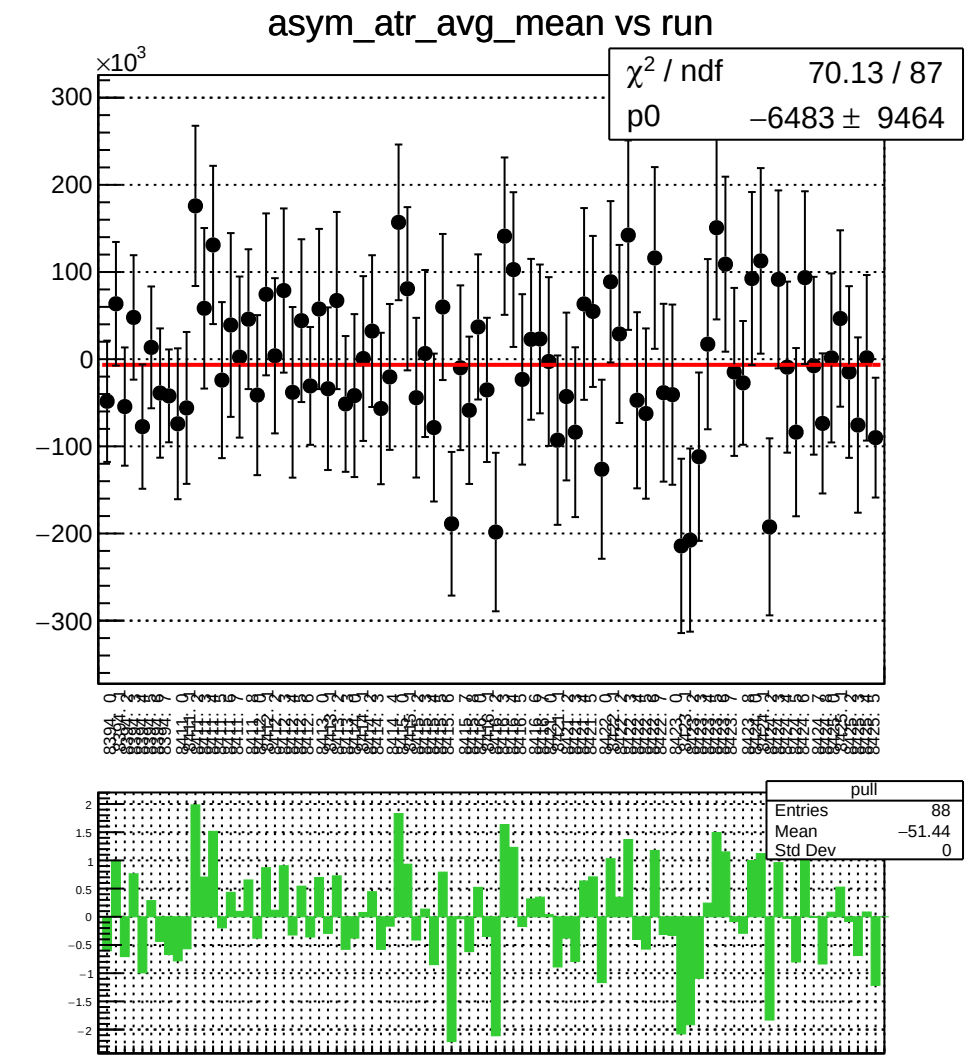

pull1D
Entries 88
Mean 0.01324
Std Dev 0.9281
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

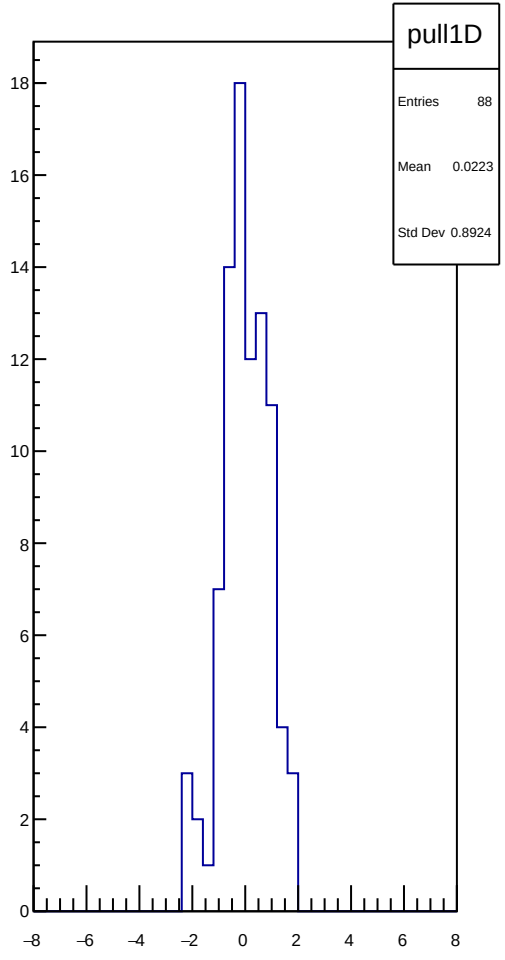

eigen_dit_asym_atr_avg_rms vs run
χ^2 / ndf 115.1 / 87
p0 1972 ± 1.516
2040
2020
2000
1980
1960
1940
1920

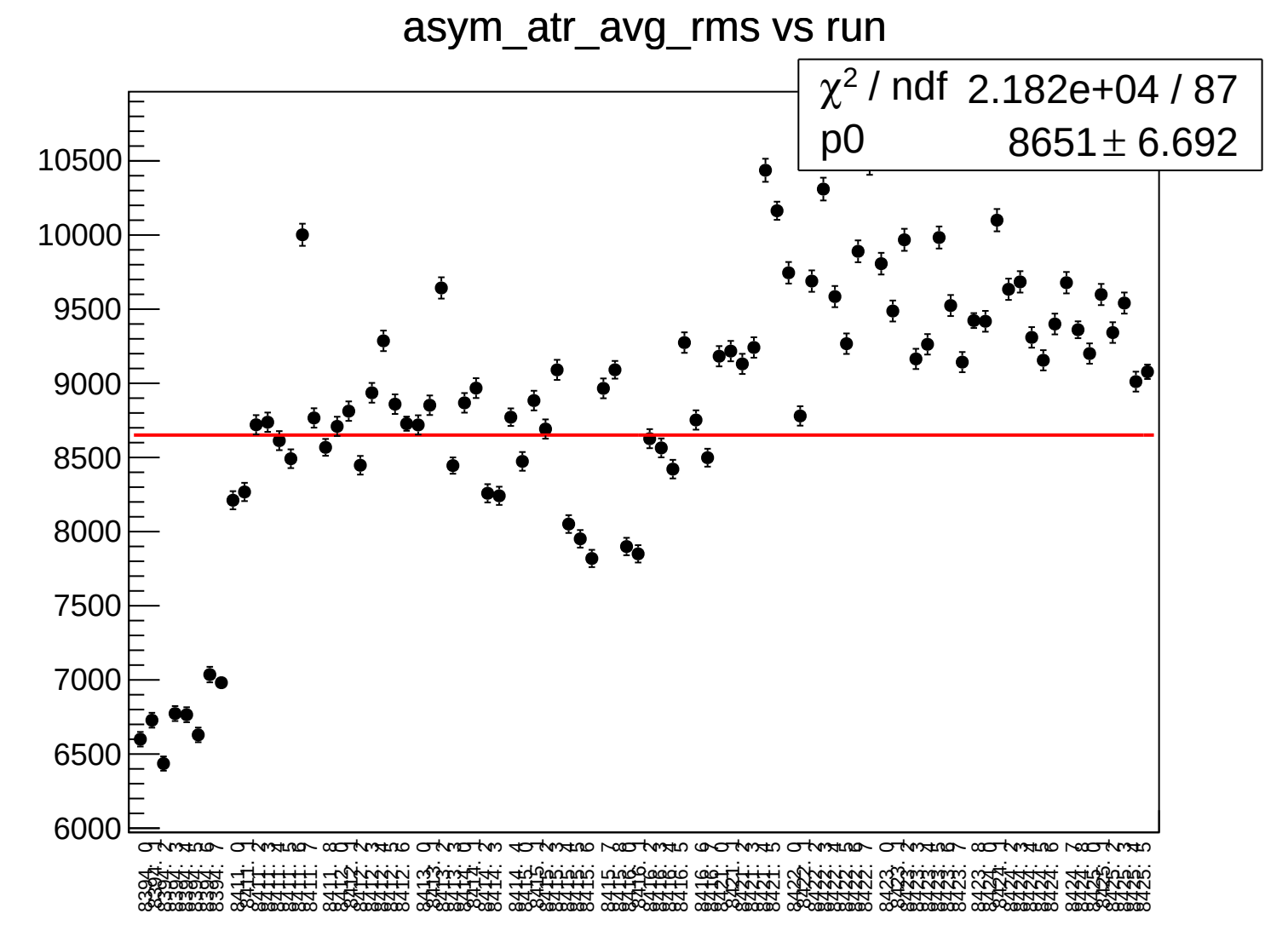

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 65.27 / 87
p0 5212 ± 9206
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −76.86
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

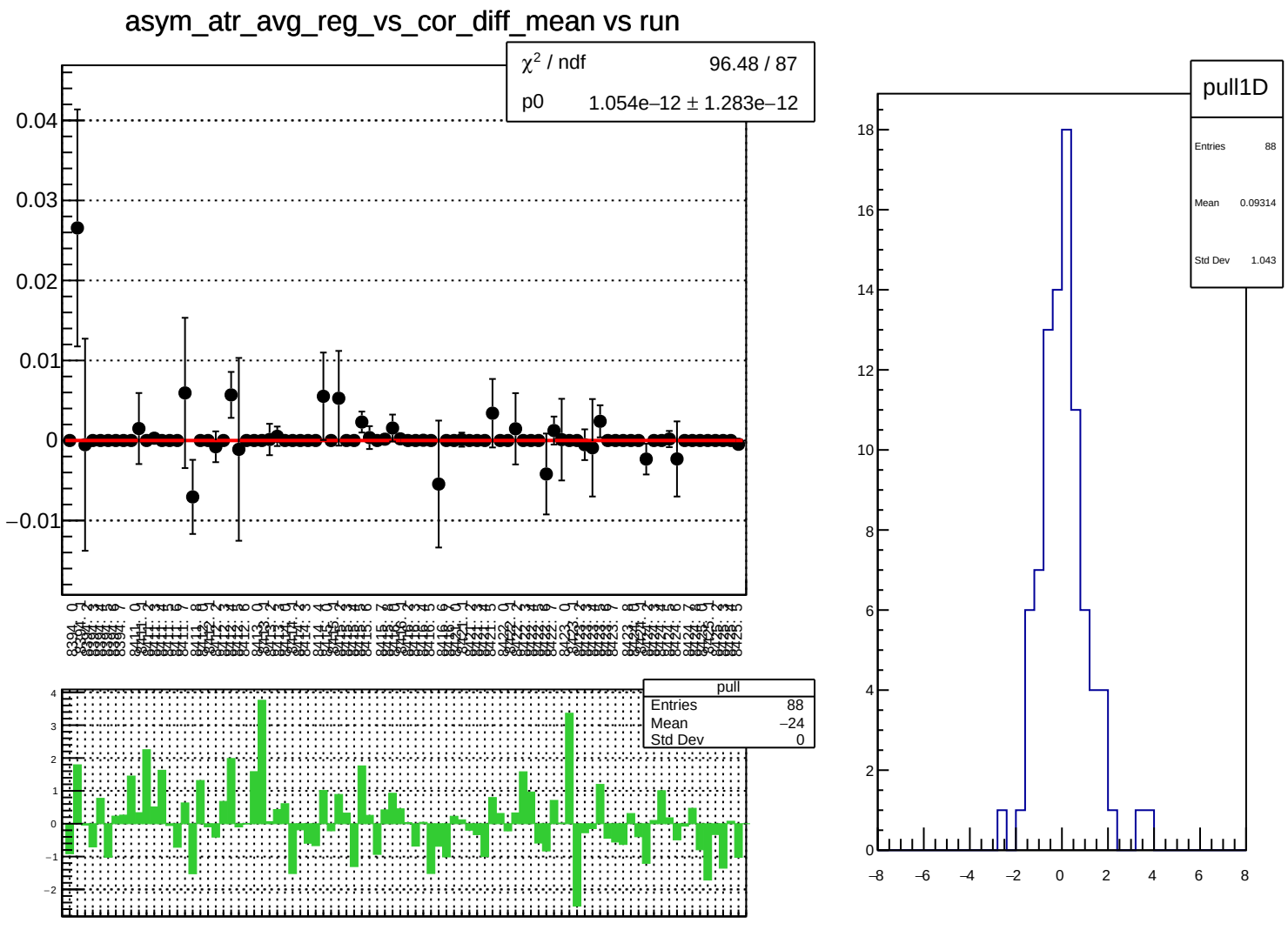

pull1D
Entries 88
Mean −0.01752
Std Dev 0.861
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

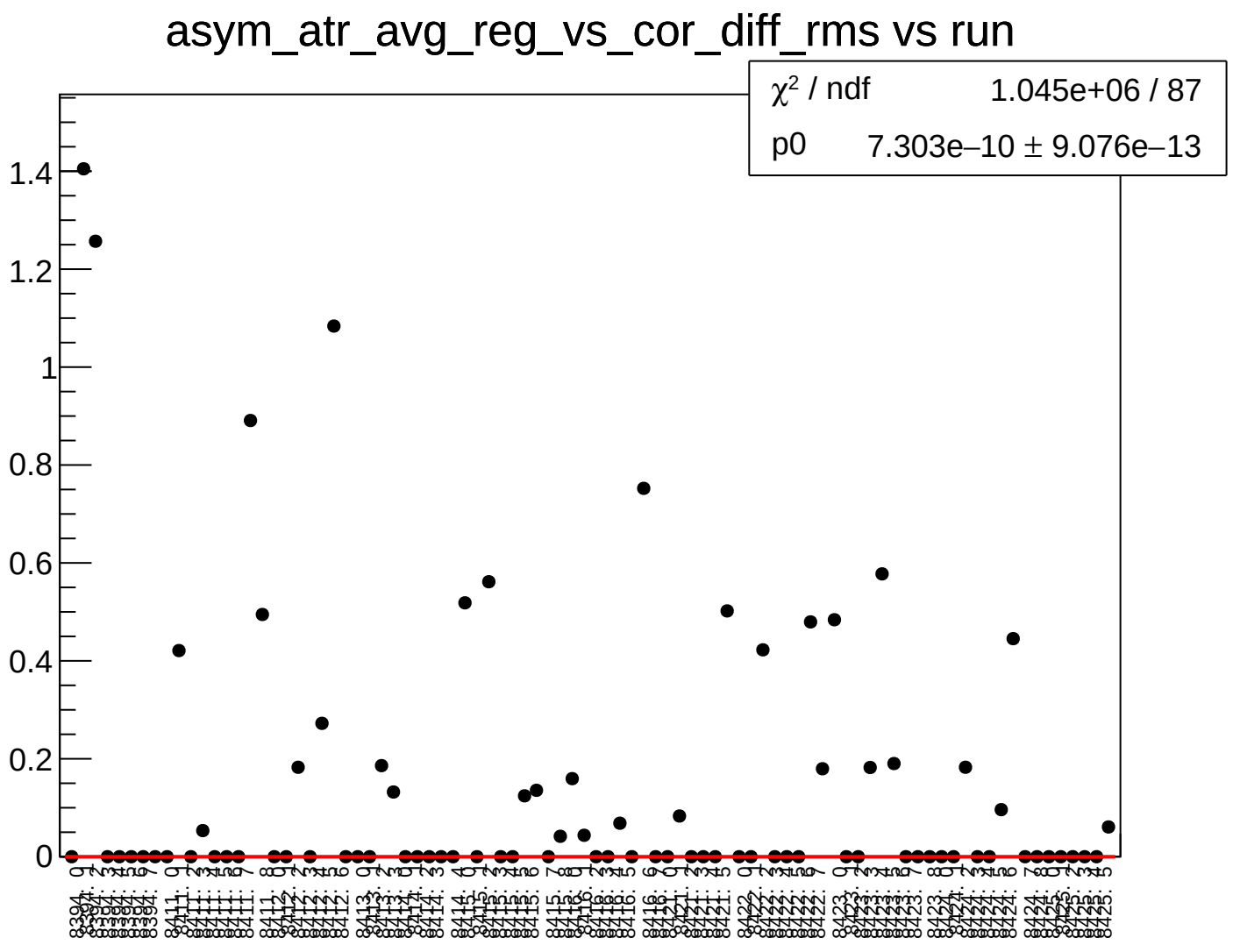

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.153e+04 / 87
p0 8416 ± 6.51
10500
10000
9500
9000
8500
8000
7500
7000
6500
6000

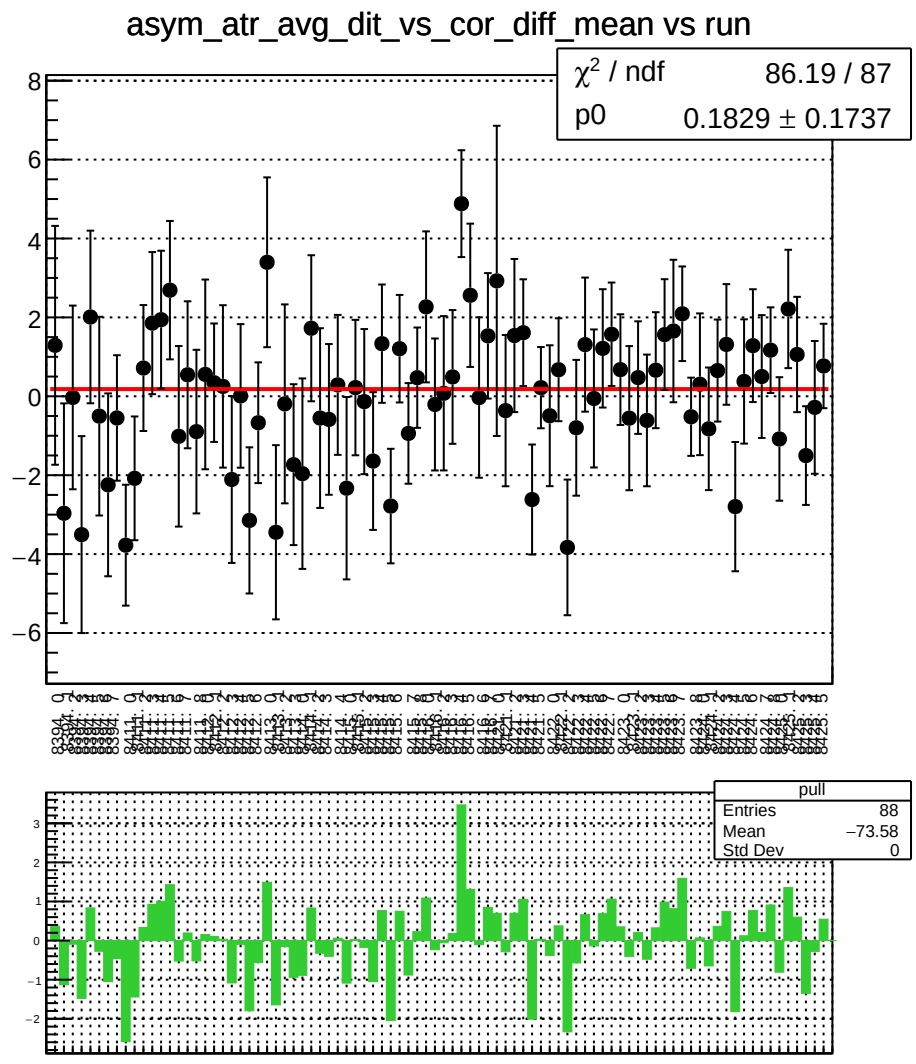

asym_atr_avg_mean vs run
×10^3
χ² / ndf 70.13 / 87
p0 −6483 ± 9464
pull
Entries 88
Mean −51.44
Std Dev 0

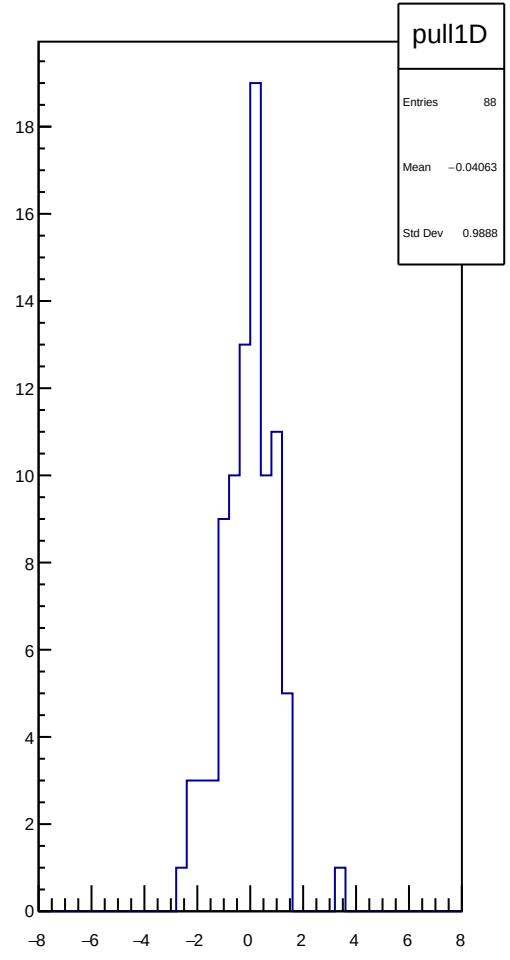

pull1D
Entries 88
Mean 0.0223
Std Dev 0.8924

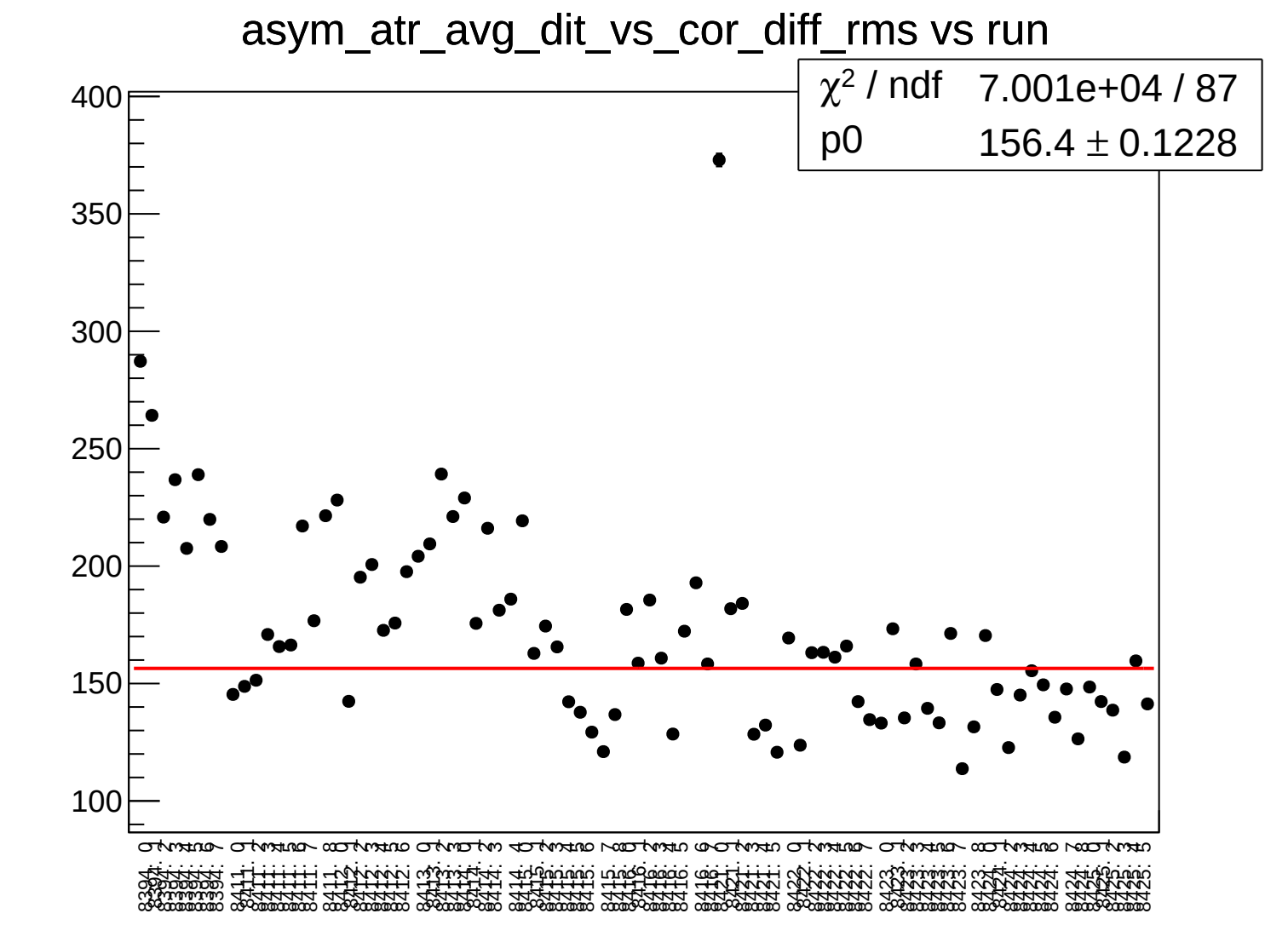

asym_atr_avg_rms vs run
χ^2 / ndf 2.182e+04 / 87
p0 8651 ± 6.692
10500
10000
9500
9000
8500
8000
7500
7000
6500
6000

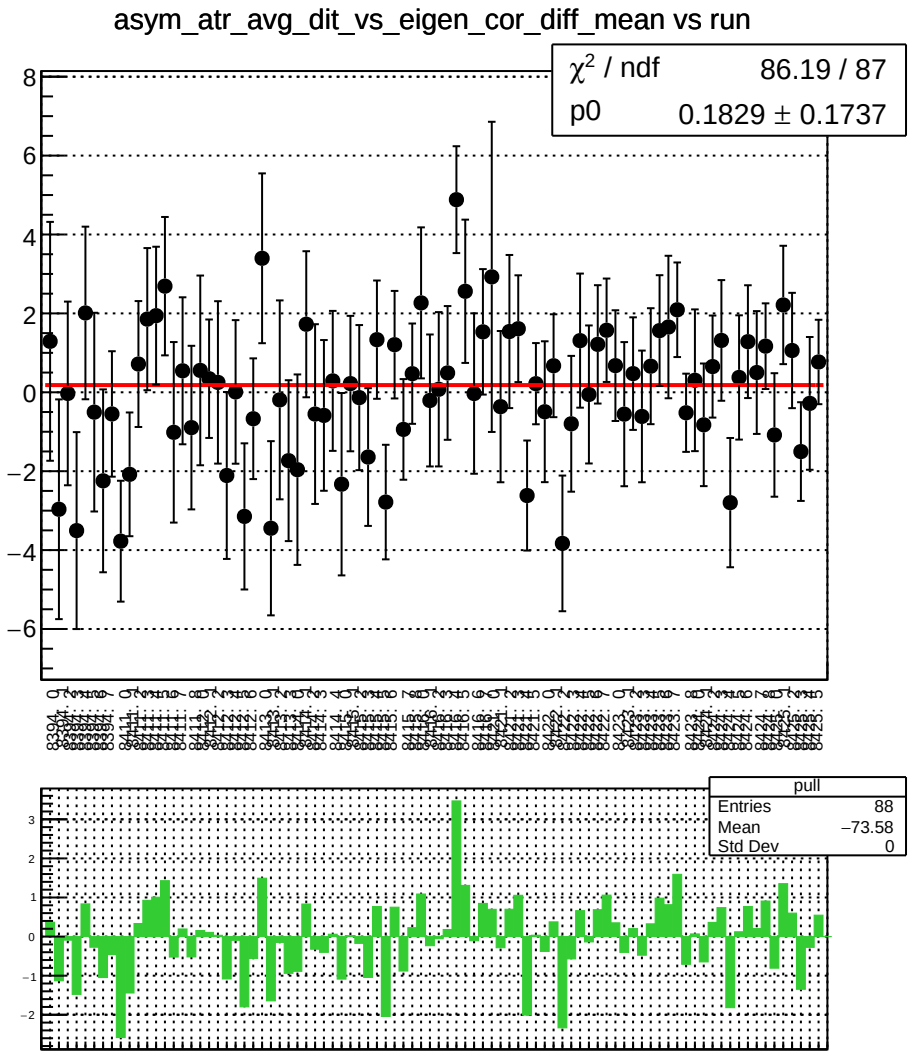

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 96.48 / 87
p0 1.054e−12 ± 1.283e−12
0.04
0.03
0.02
0.01
0
−0.01
pull
Entries 88
Mean −24
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.09314
Std Dev 1.043
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

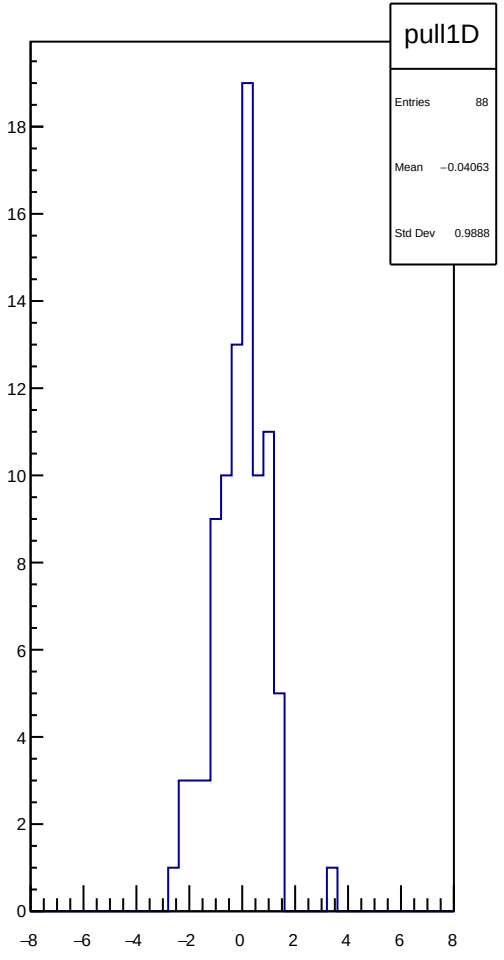

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.045e+06 / 87
p0 7.303e−10 ± 9.076e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

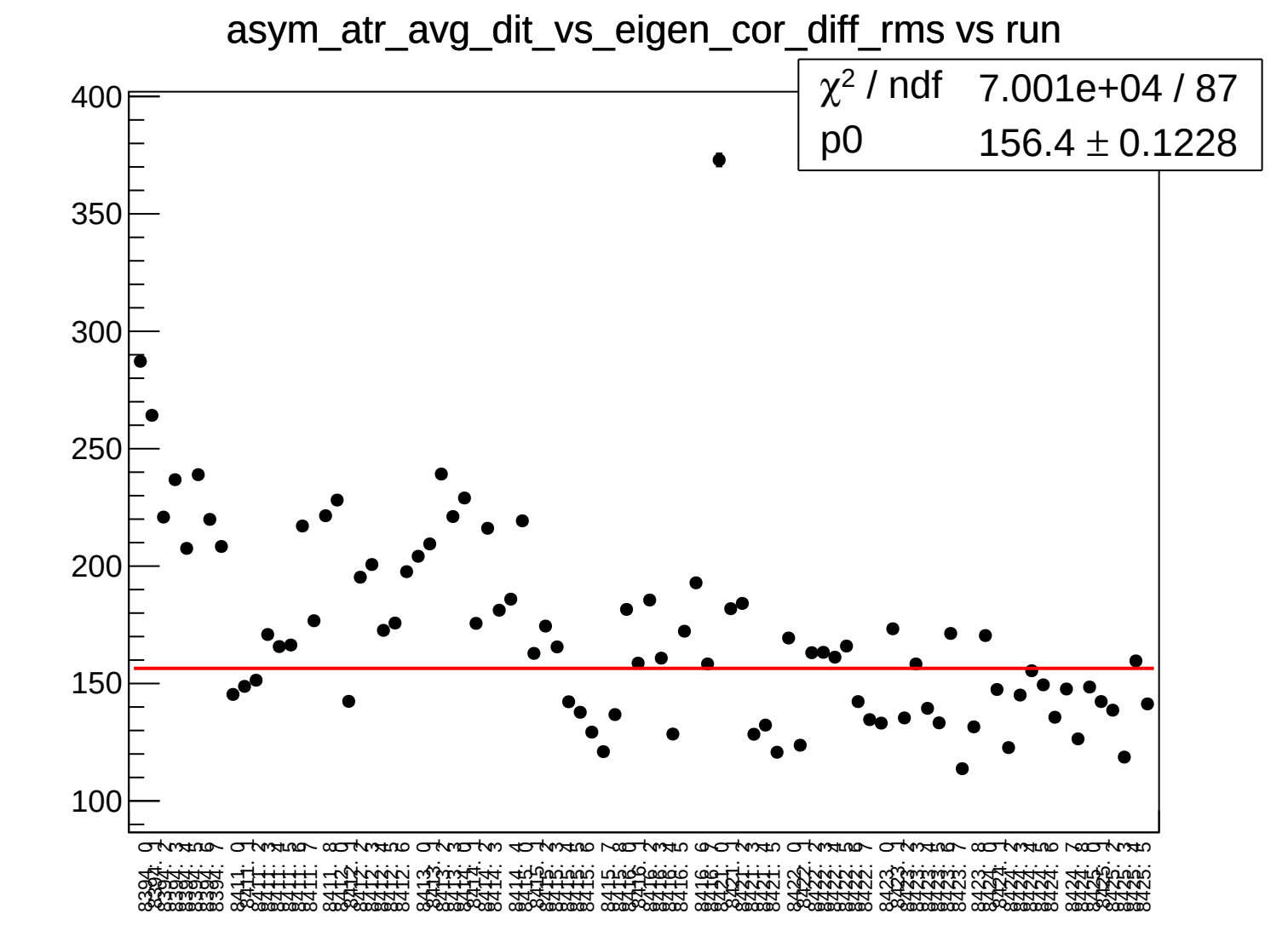

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.19 / 87
p0 0.1829 ± 0.1737
pull
Entries 88
Mean −73.58
Std Dev 0

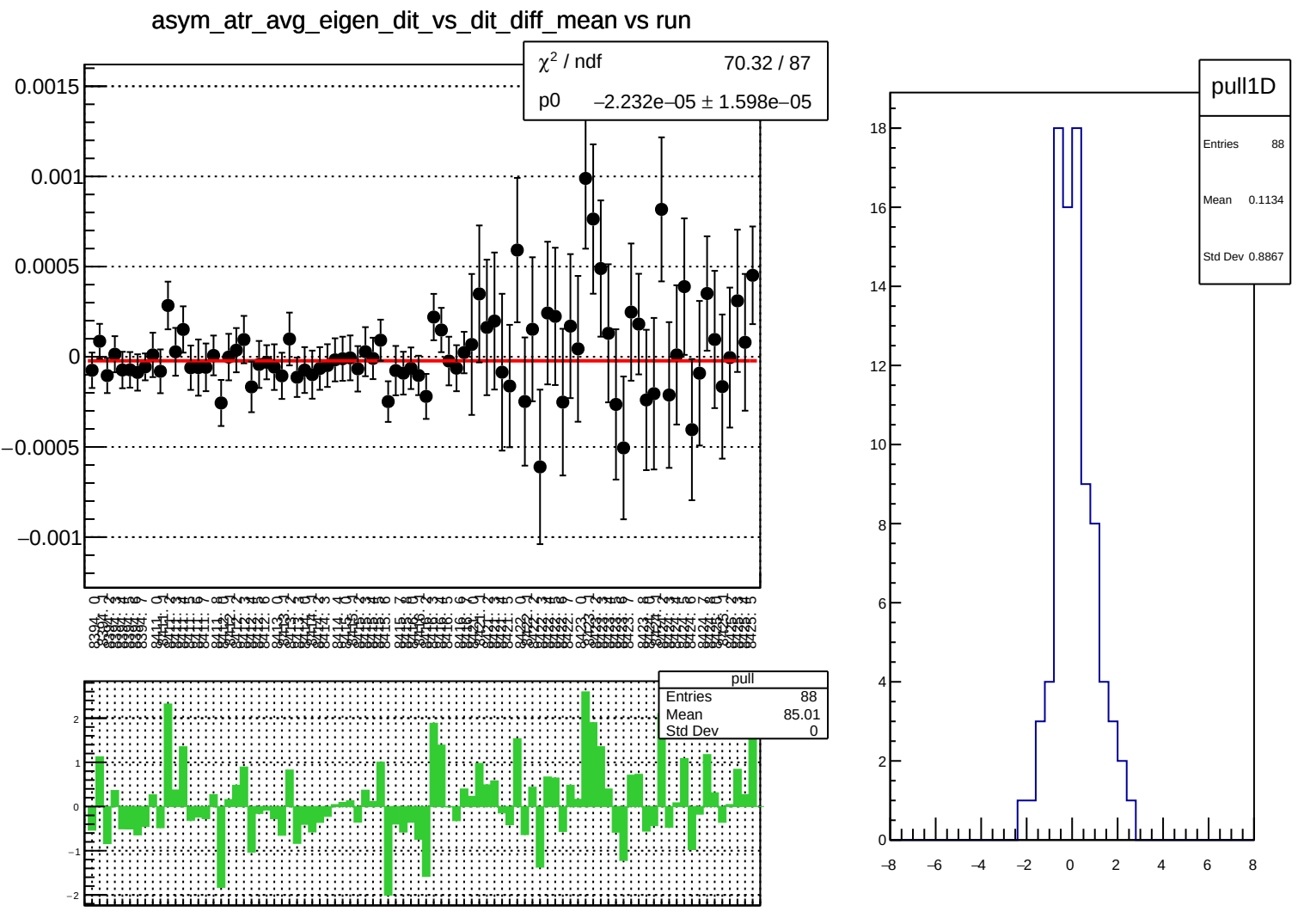

pull1D
Entries 88
Mean −0.04063
Std Dev 0.9888

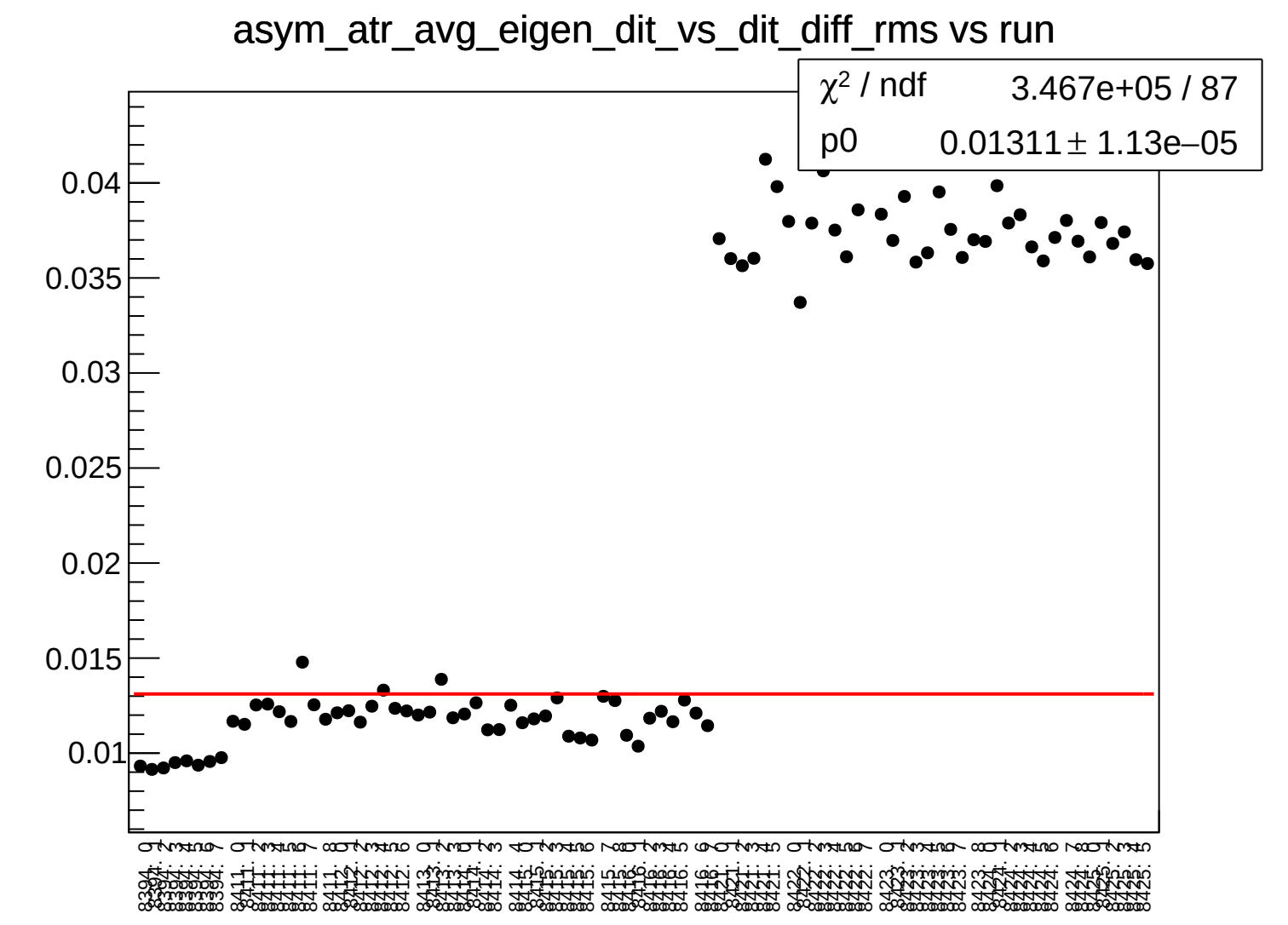

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.001e+04 / 87
p0 156.4 ± 0.1228
400
350
300
250
200
150
100

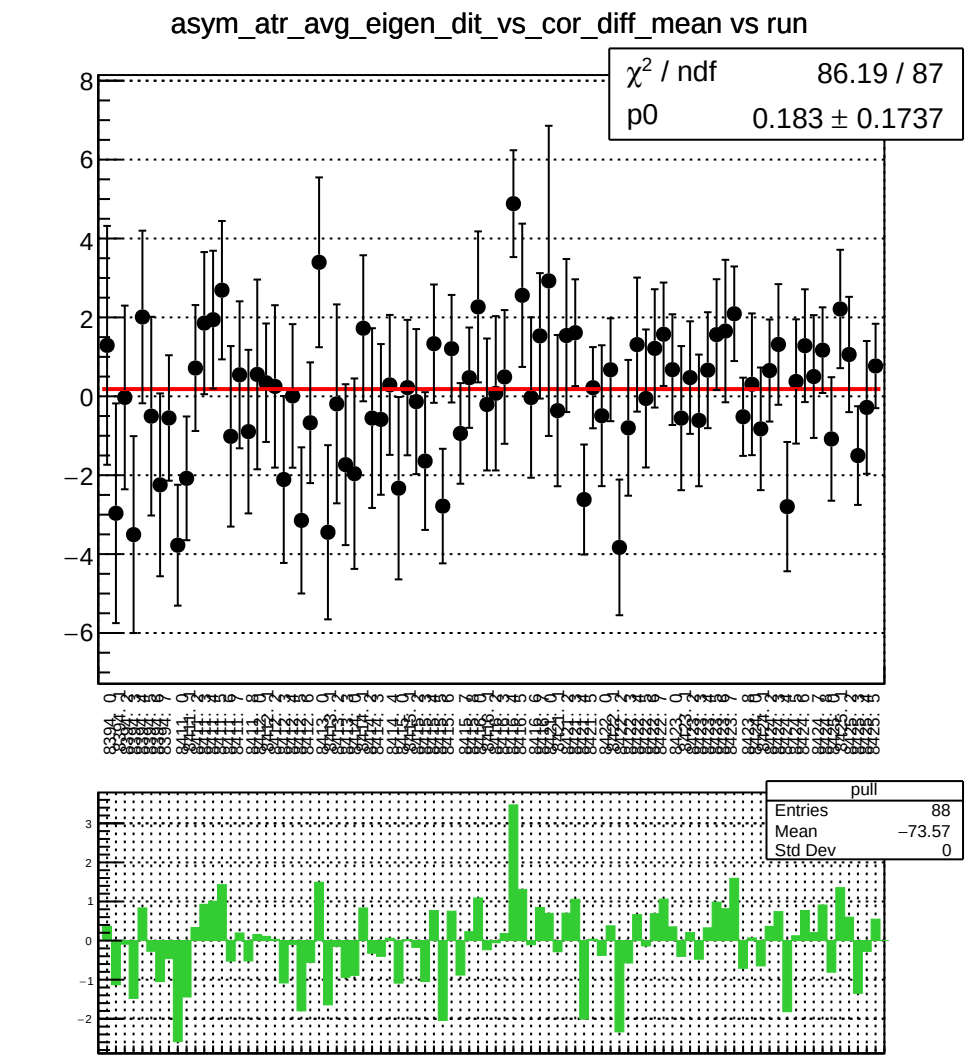

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.19 / 87
p0 0.1829 ± 0.1737
pull
Entries 88
Mean −73.58
Std Dev 0

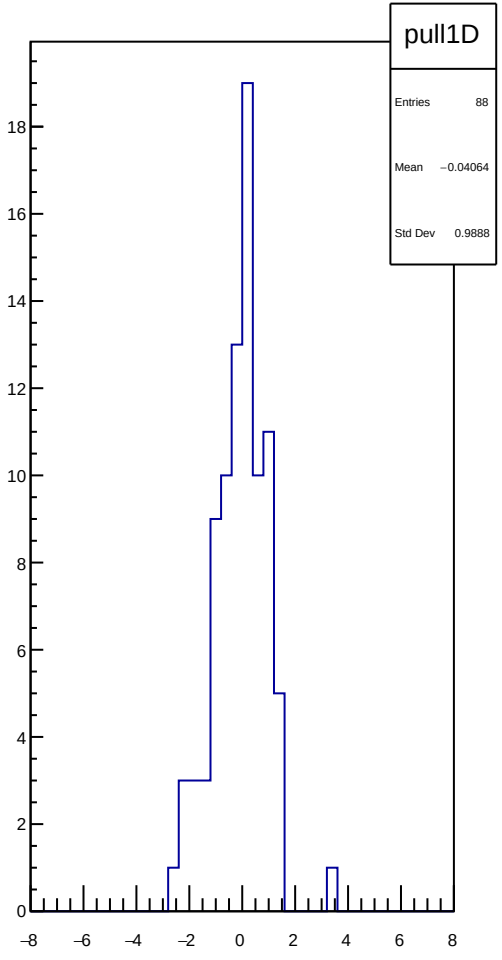

pull1D
Entries 88
Mean −0.04063
Std Dev 0.9888

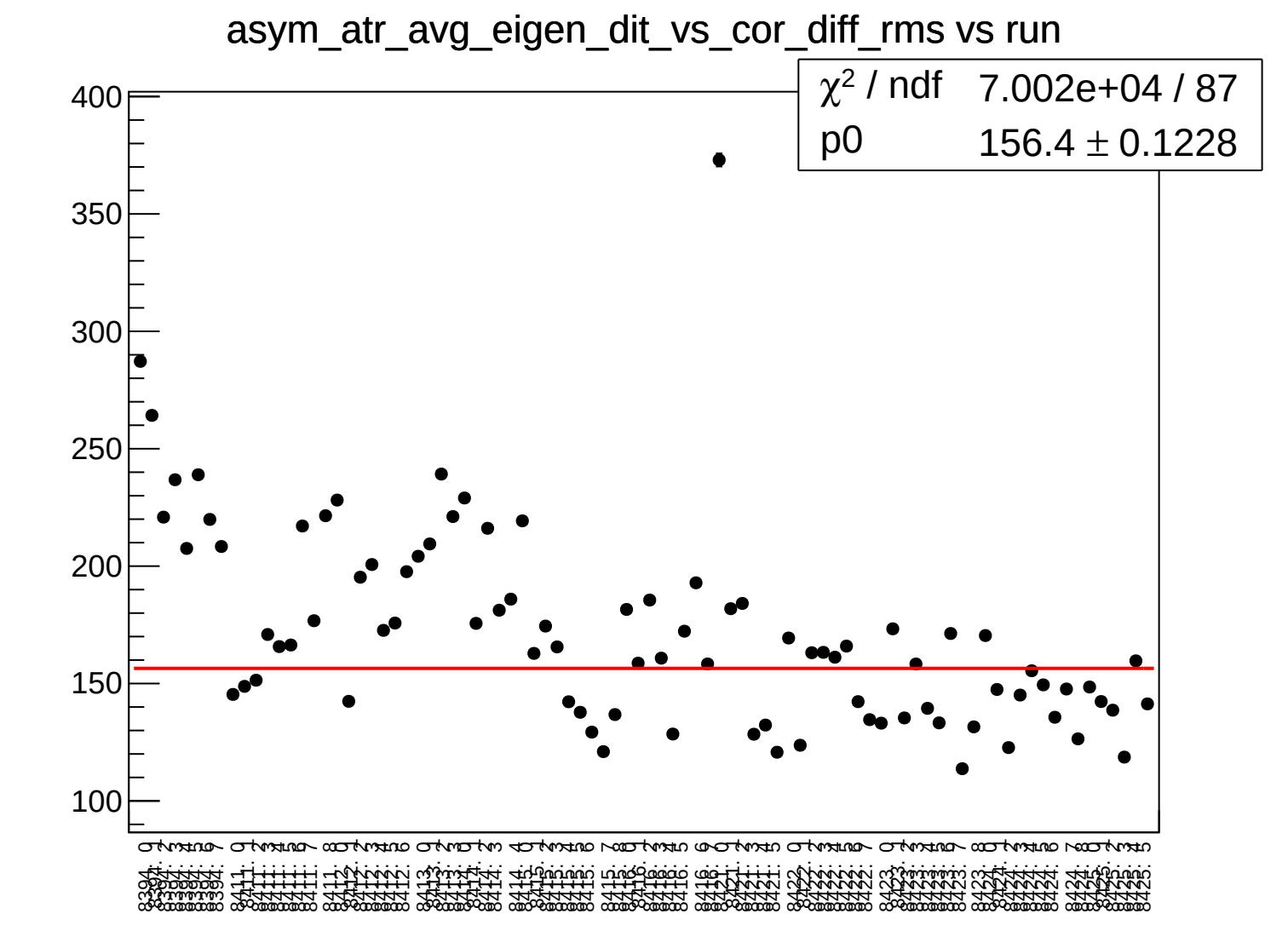

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.001e+04 / 87
p0 156.4 ± 0.1228
400
350
300
250
200
150
100

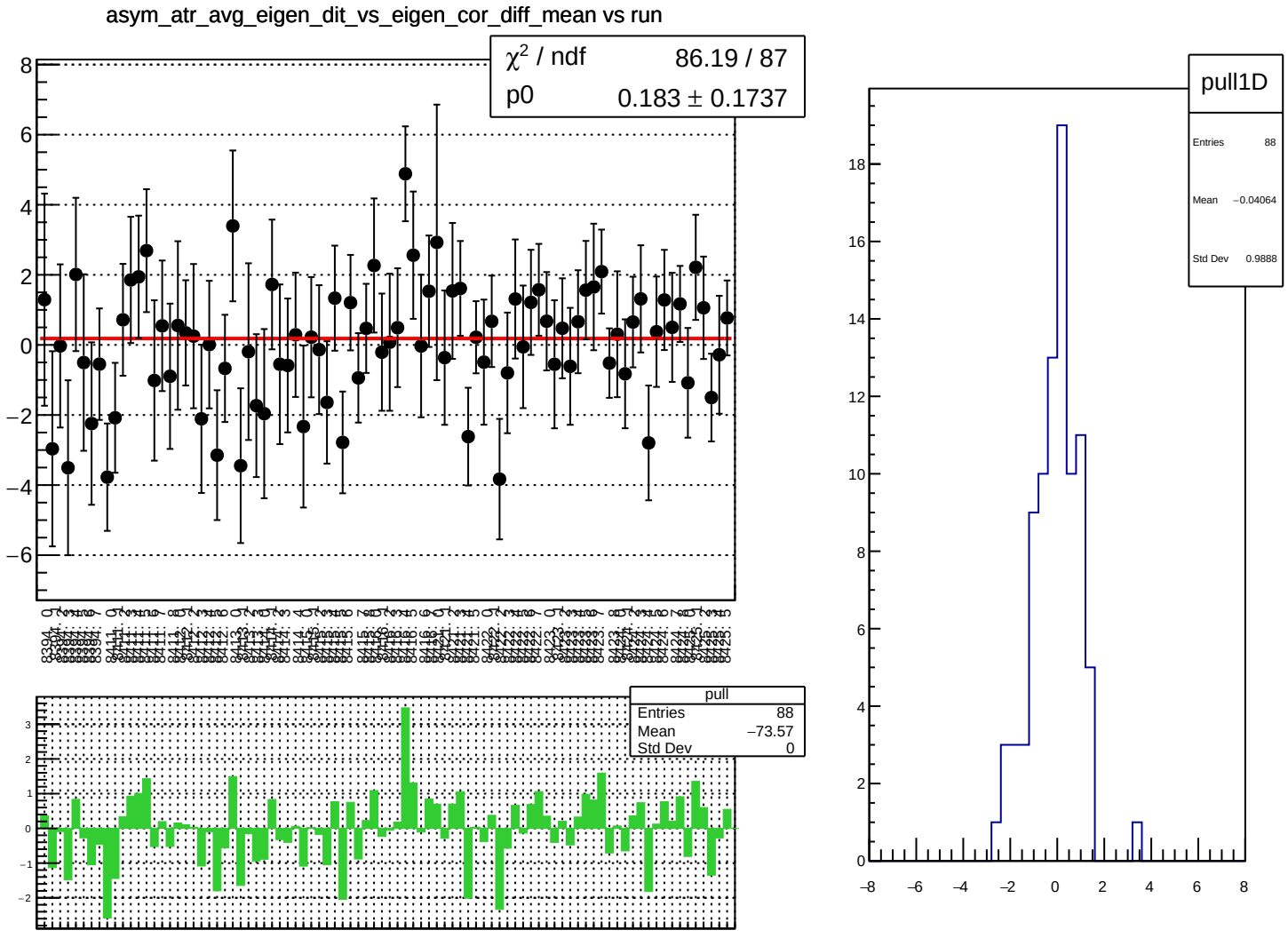

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 70.32 / 87
p0 −2.232e−05 ± 1.598e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean 85.01
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.1134
Std Dev 0.8867
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

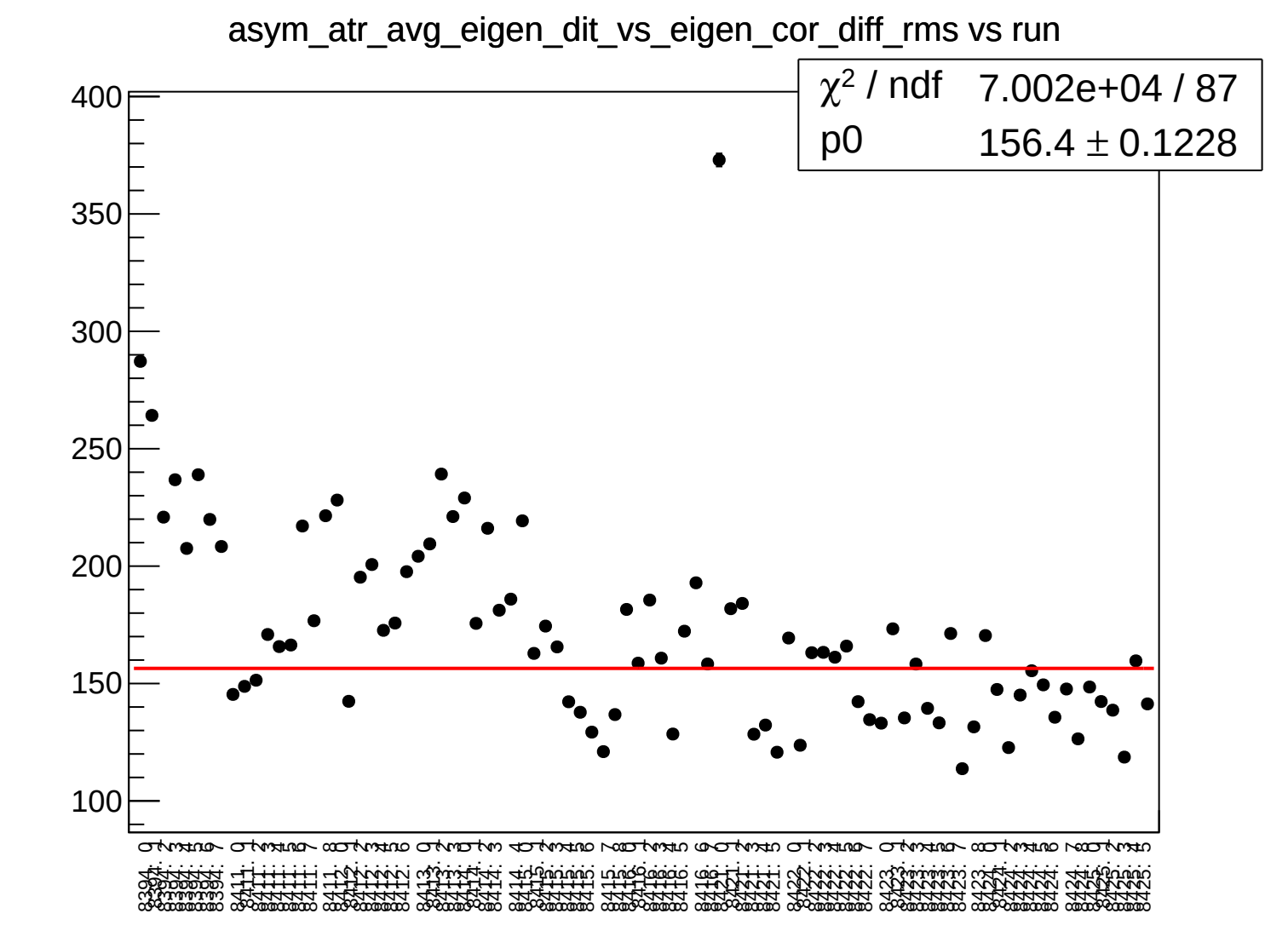

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.467e+05 / 87
p0 0.01311 ± 1.13e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

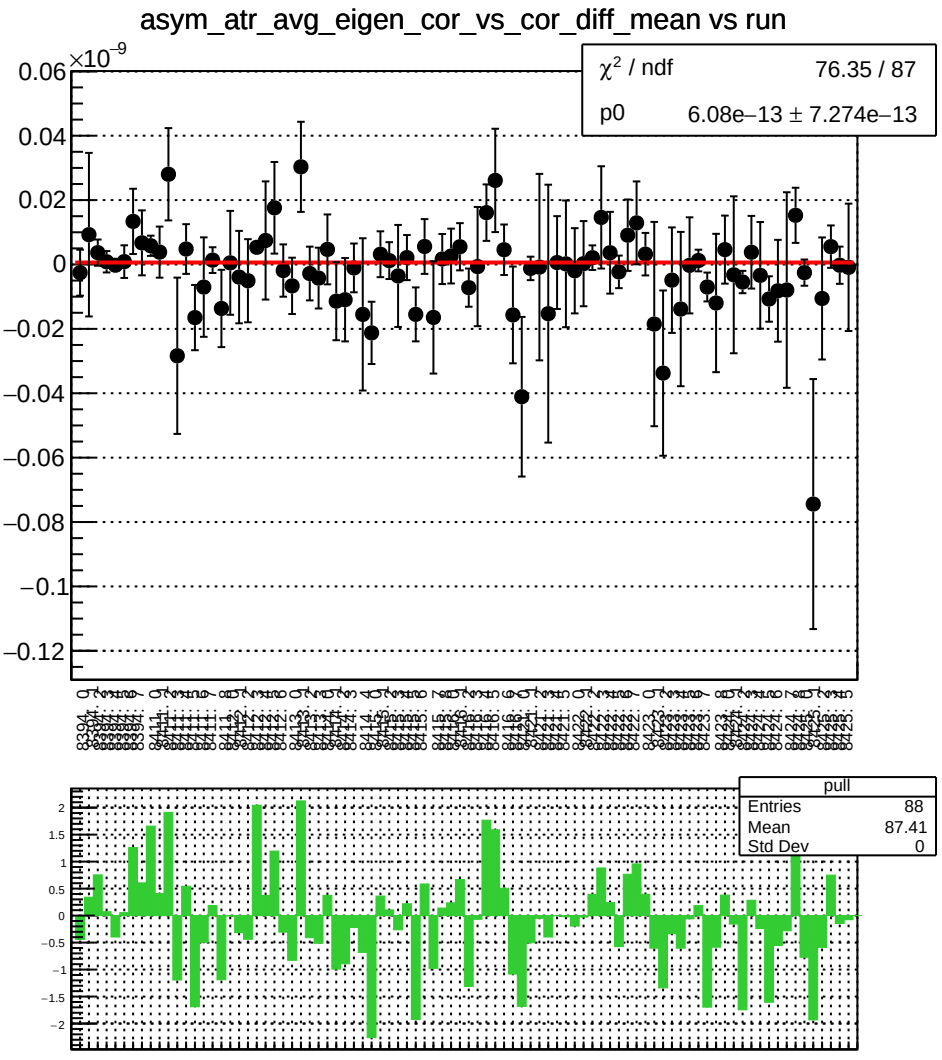

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.19 / 87
p0 0.183 ± 0.1737
pull
Entries 88
Mean −73.57
Std Dev 0

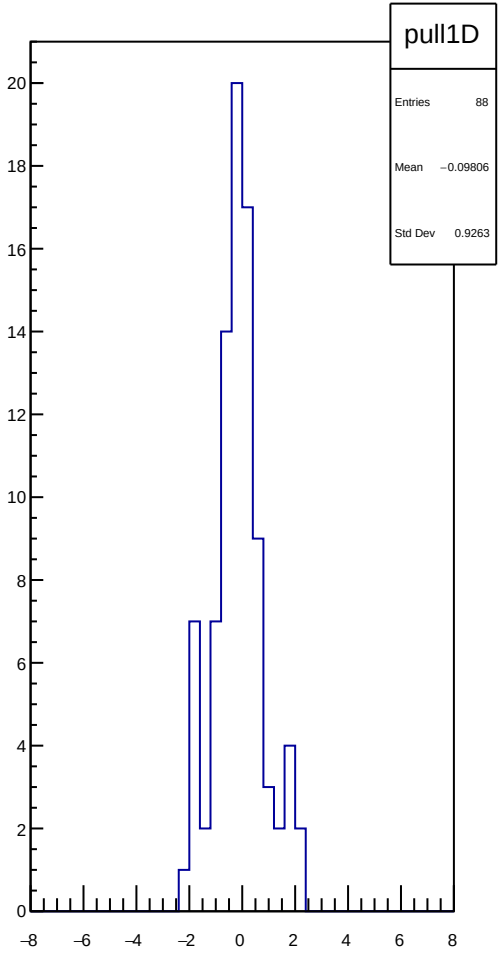

pull1D
Entries 88
Mean −0.04064
Std Dev 0.9888

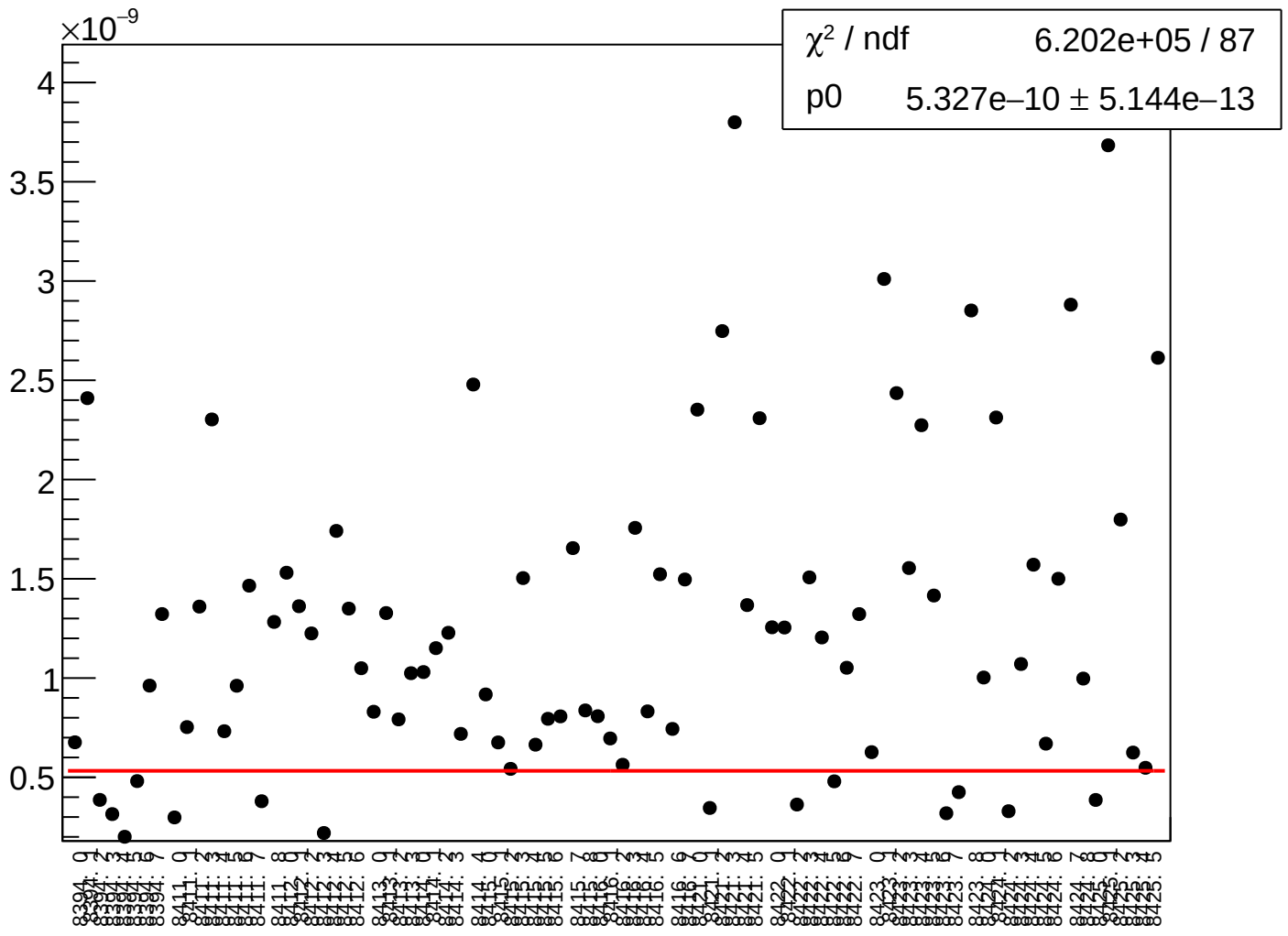

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.002e+04 / 87
p0 156.4 ± 0.1228
400
350
300
250
200
150
100

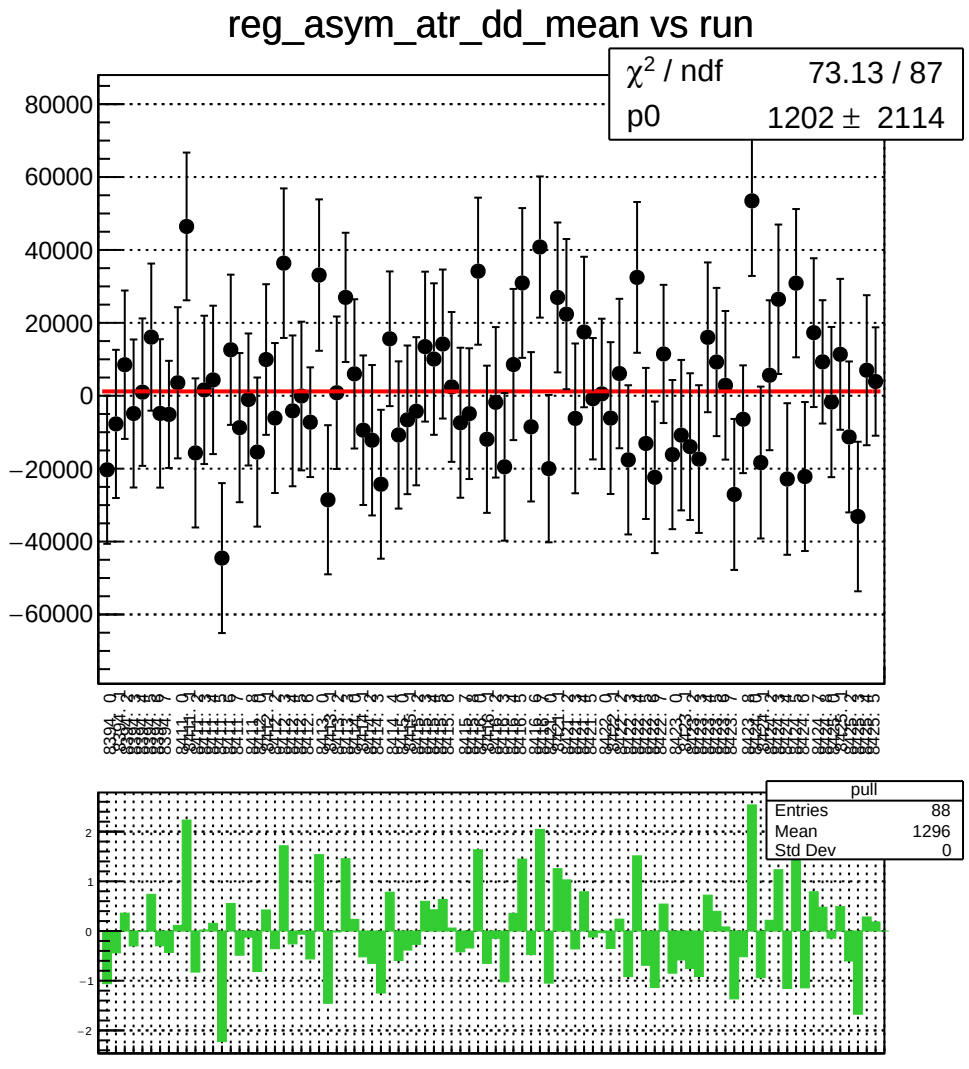

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.19 / 87
p0 0.183 ± 0.1737
pull
Entries 88
Mean −73.57
Std Dev 0
pull1D
Entries 88
Mean −0.04064
Std Dev 0.9888

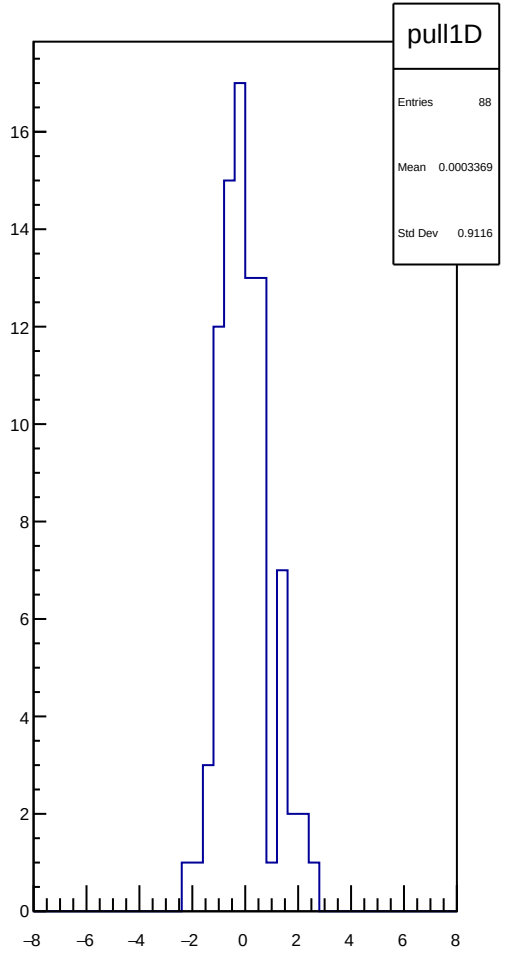

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.002e+04 / 87
p0 156.4 ± 0.1228
400
350
300
250
200
150
100

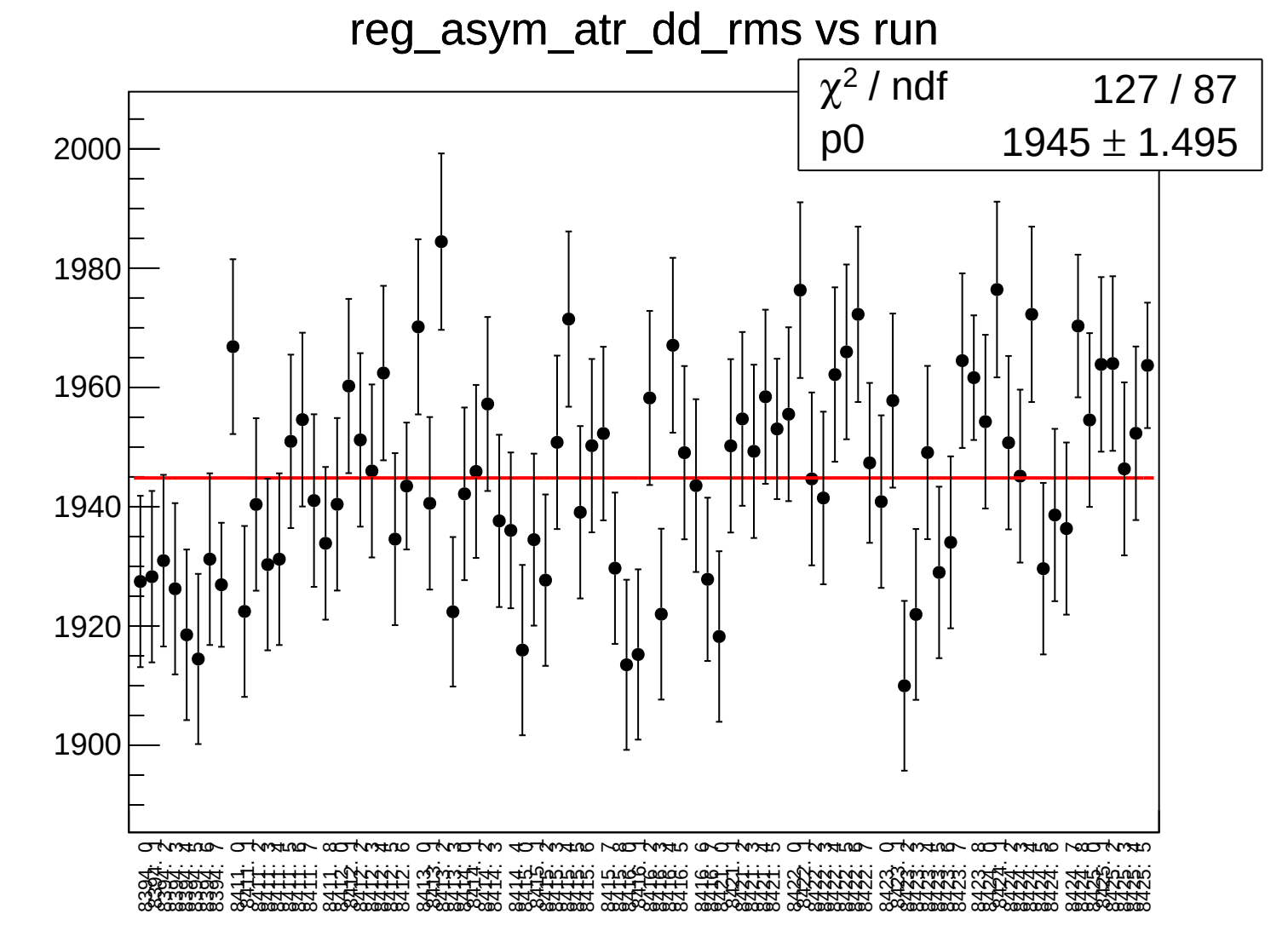

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 76.35 / 87
p0 6.08e−13 ± 7.274e−13
pull
Entries 88
Mean 87.41
Std Dev 0

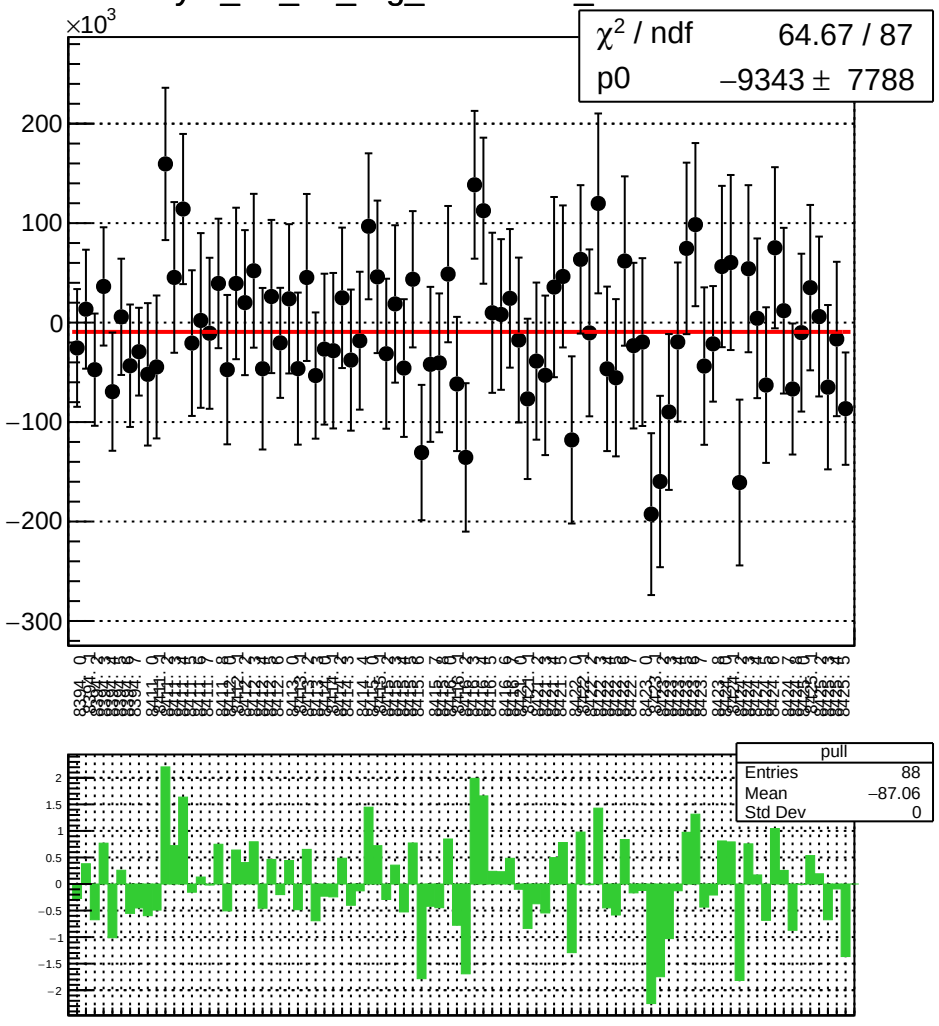

pull1D
Entries 88
Mean −0.09806
Std Dev 0.9263

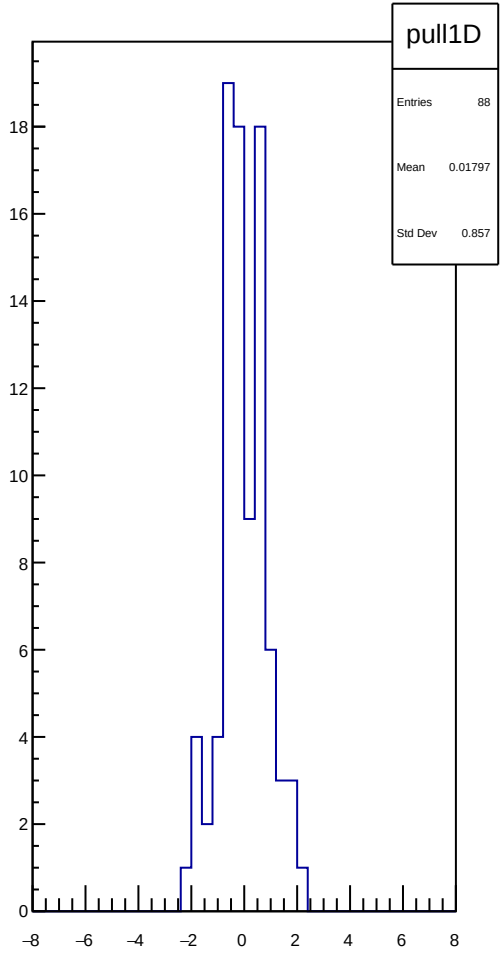

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.202e+05 / 87
p0 5.327e−10 ± 5.144e−13
4
3.5
3
2.5
2
1.5
1
0.5

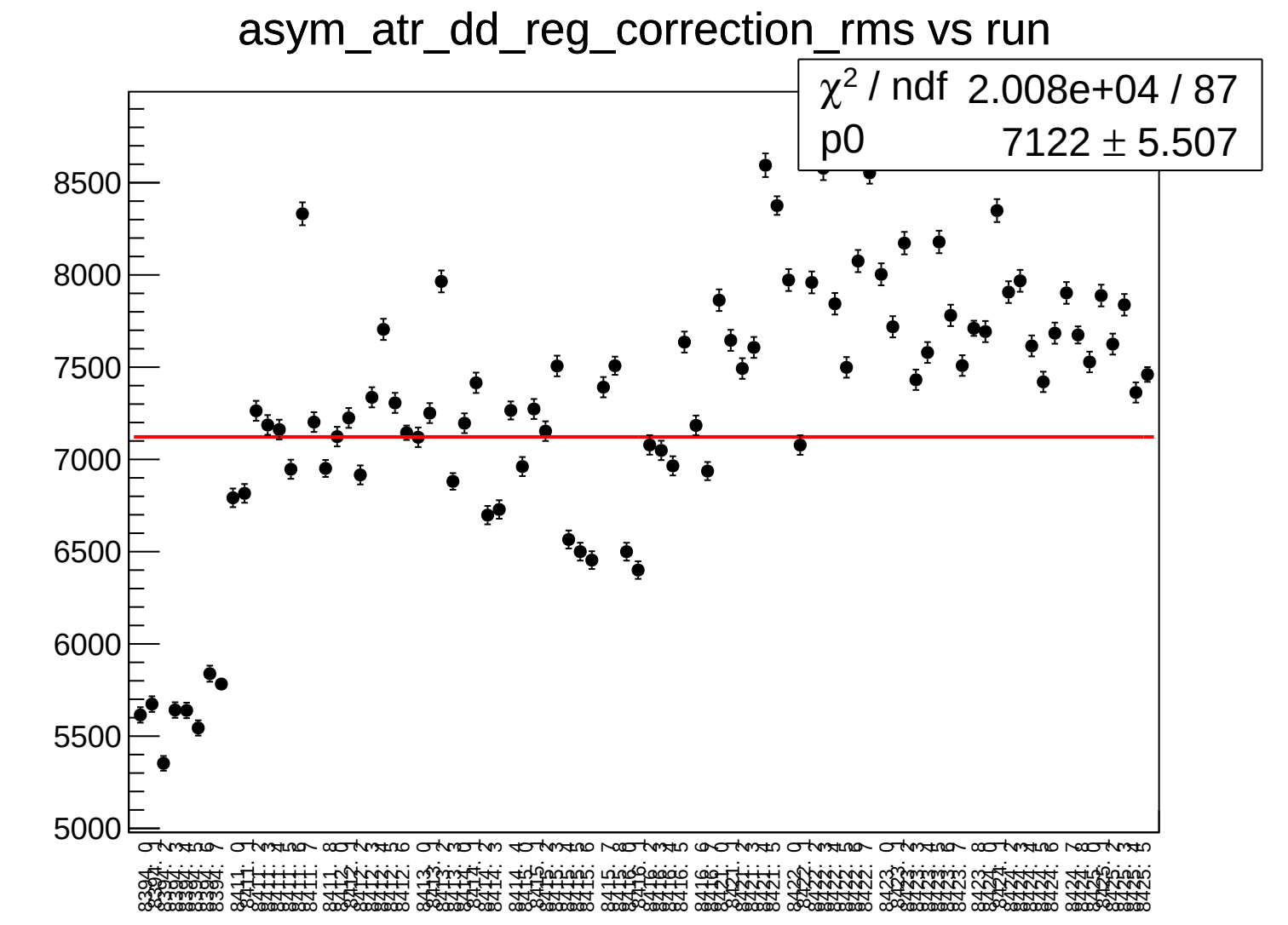

reg_asym_atr_dd_mean vs run
χ² / ndf 73.13 / 87
p0 1202 ± 2114
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 1296
Std Dev 0
2
1
0
−1
−2

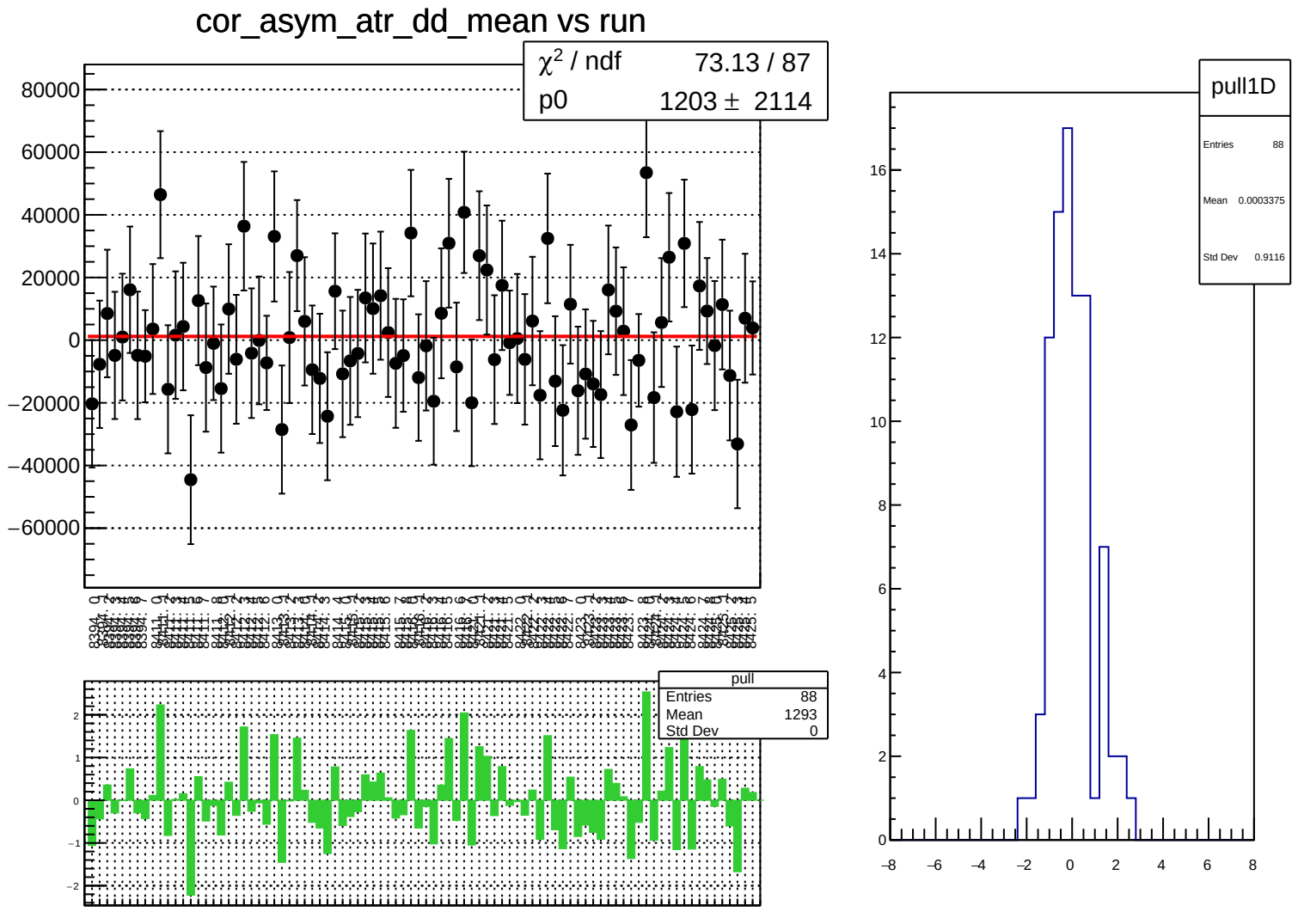

pull1D
Entries 88
Mean 0.0003369
Std Dev 0.9116
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

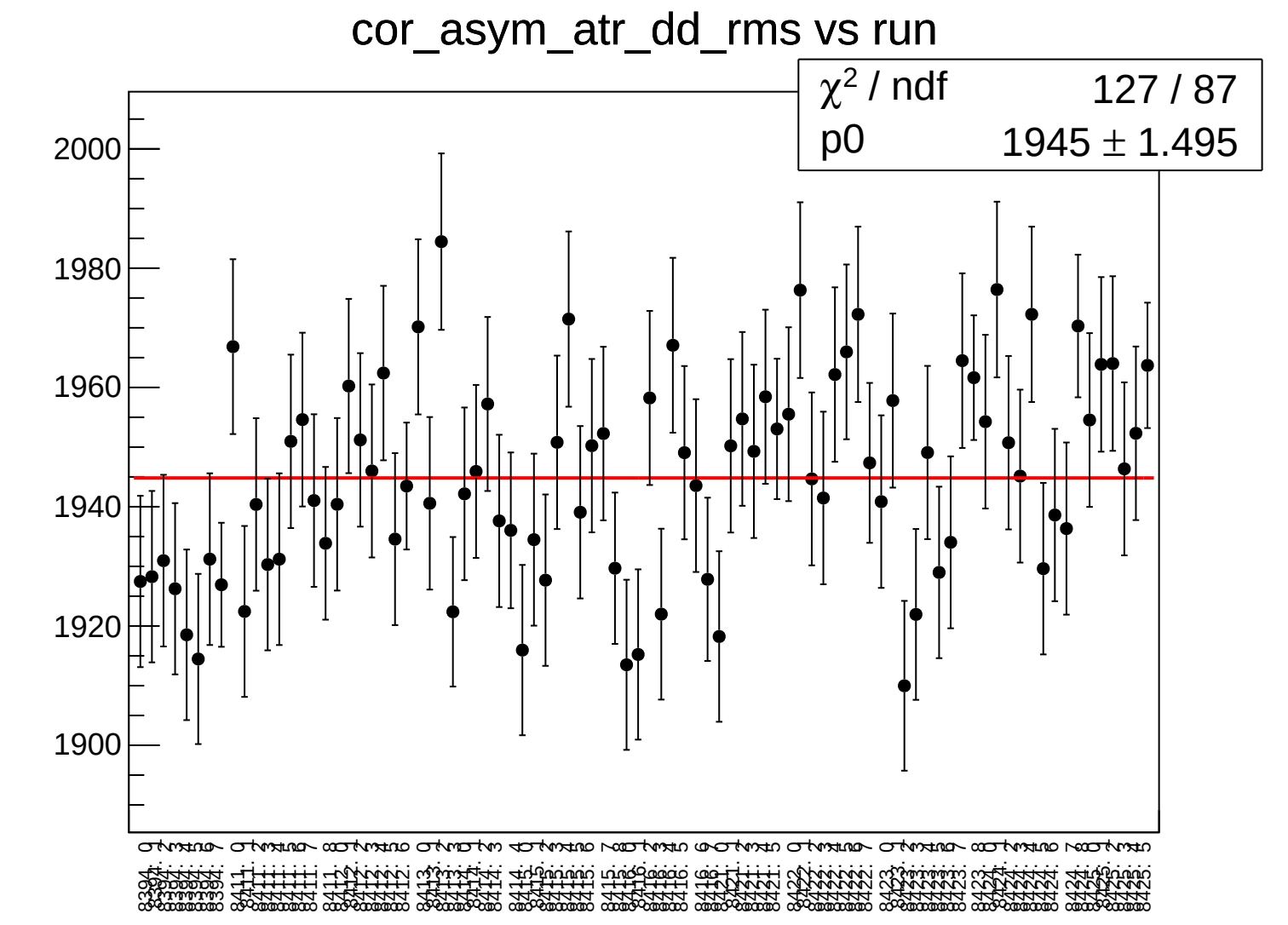

reg_asym_atr_dd_rms vs run
χ² / ndf 127 / 87
p0 1945 ± 1.495
2000
1980
1960
1940
1920
1900

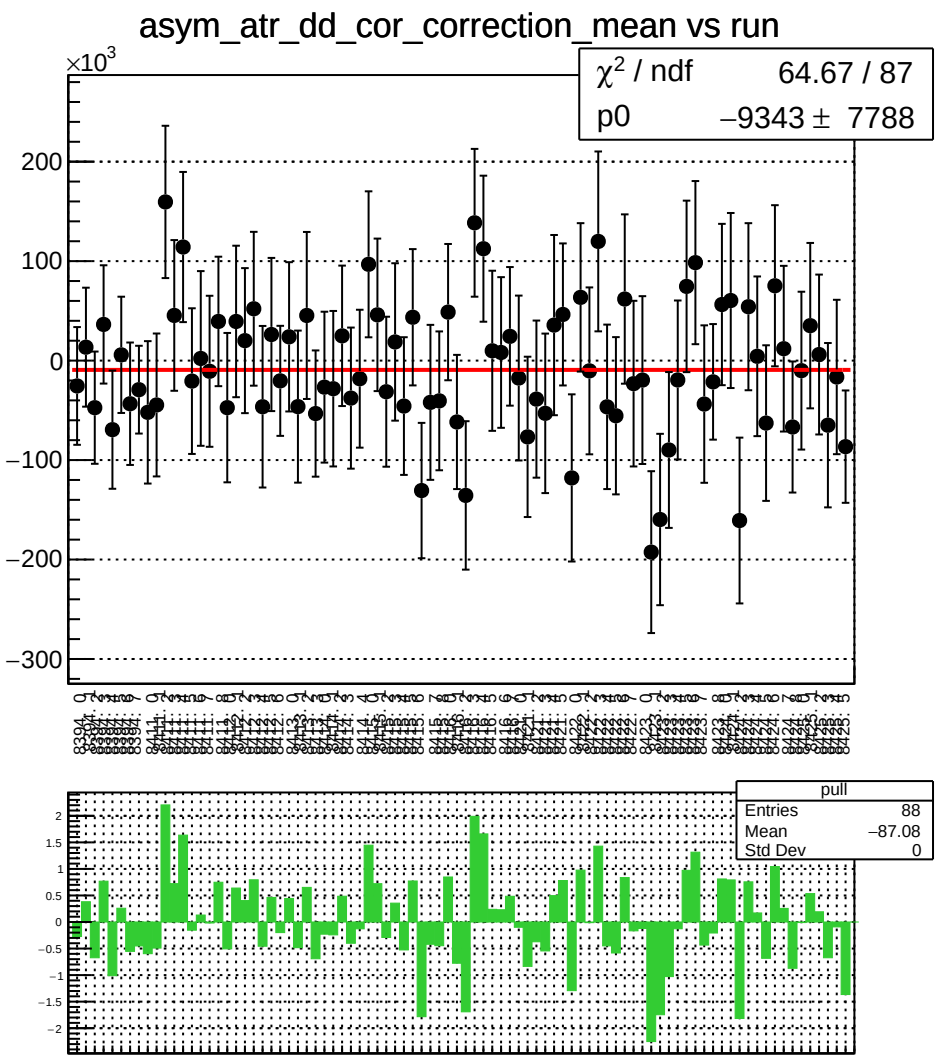

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 64.67 / 87
p0 −9343 ± 7788
200
100
0
−100
−200
−300
pull
Entries 88
Mean −87.06
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

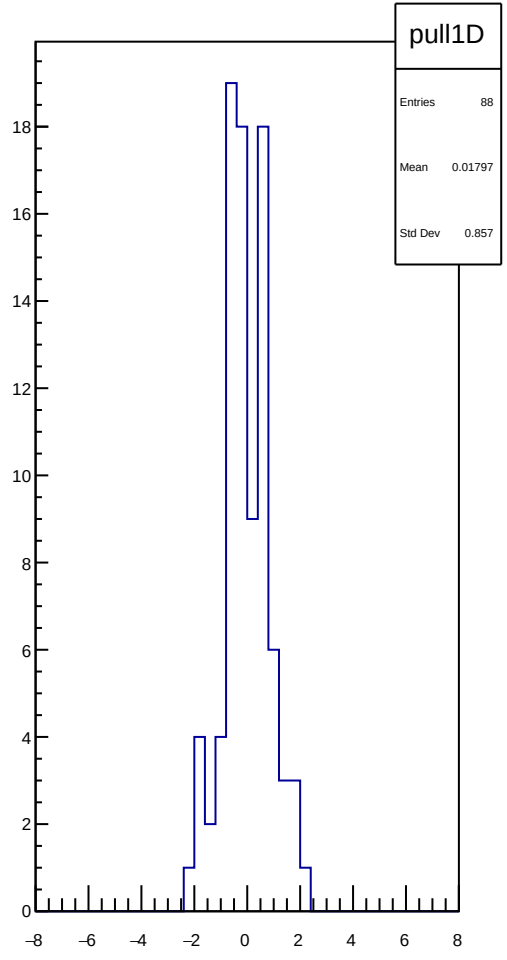

pull1D
Entries 88
Mean 0.01797
Std Dev 0.857
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

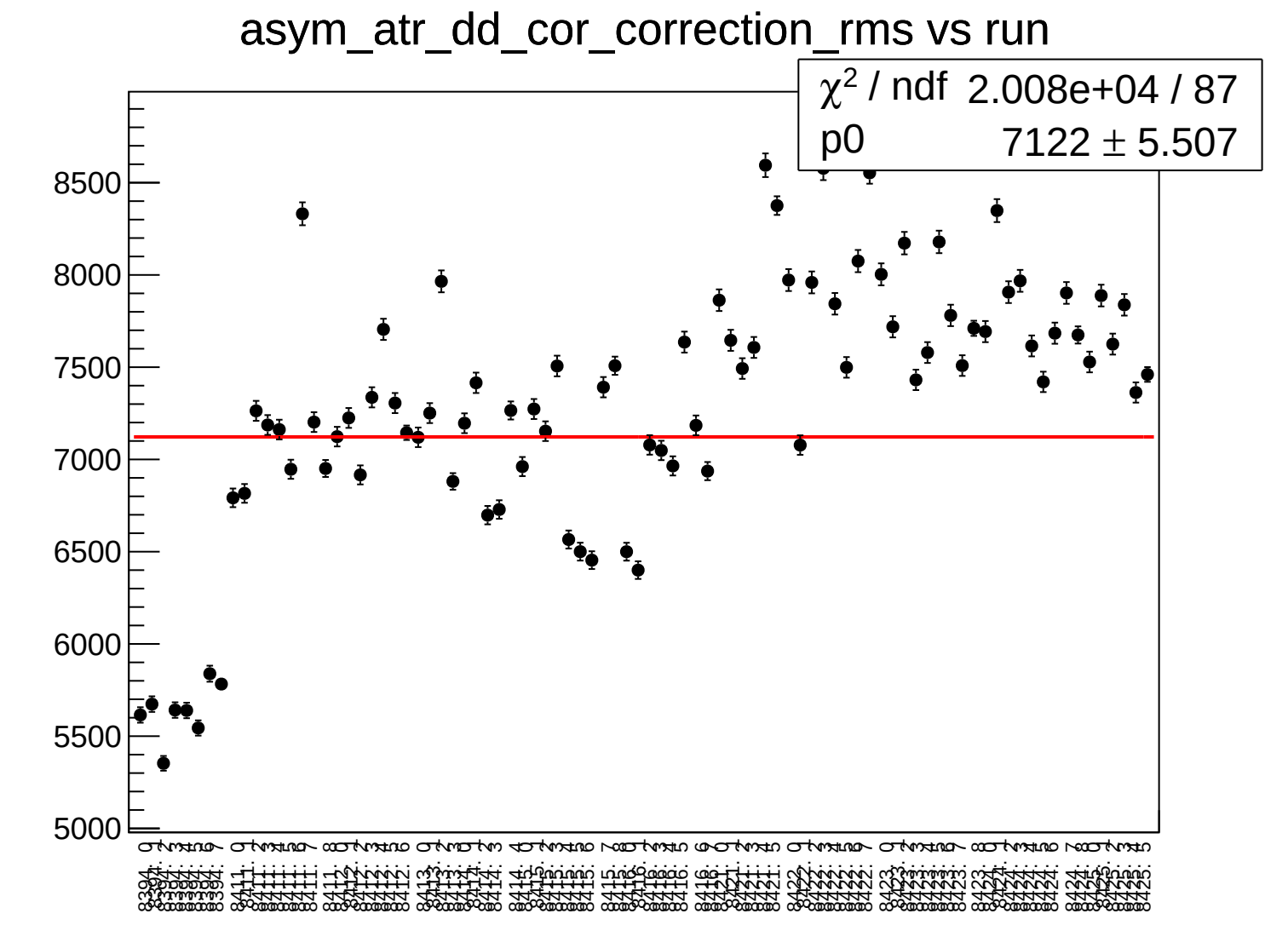

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 2.008e+04 / 87
p0 7122 ± 5.507
8500
8000
7500
7000
6500
6000
5500
5000

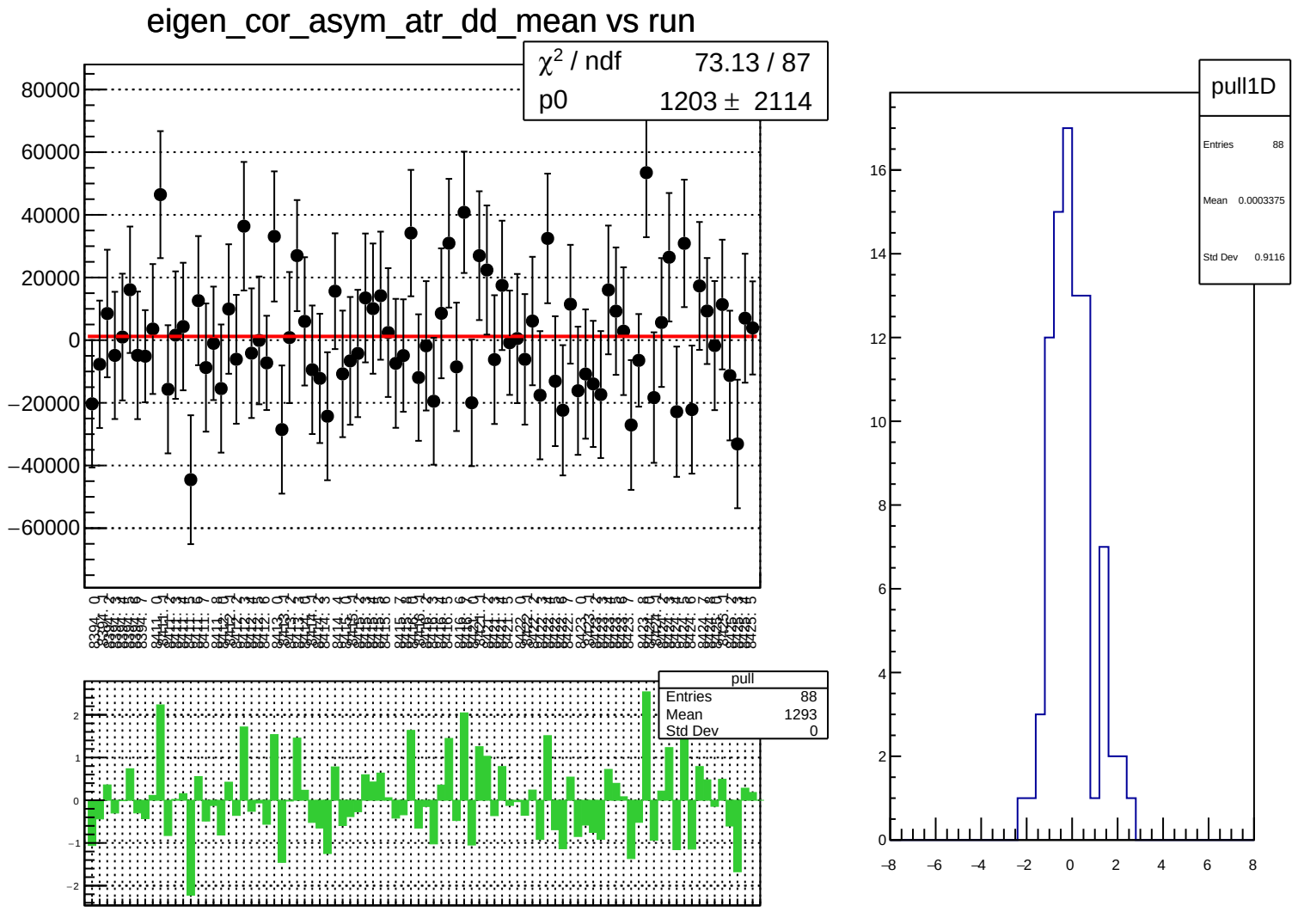

cor_asym_atr_dd_mean vs run
χ² / ndf 73.13 / 87
p0 1203 ± 2114
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 1293
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.0003375
Std Dev 0.9116
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

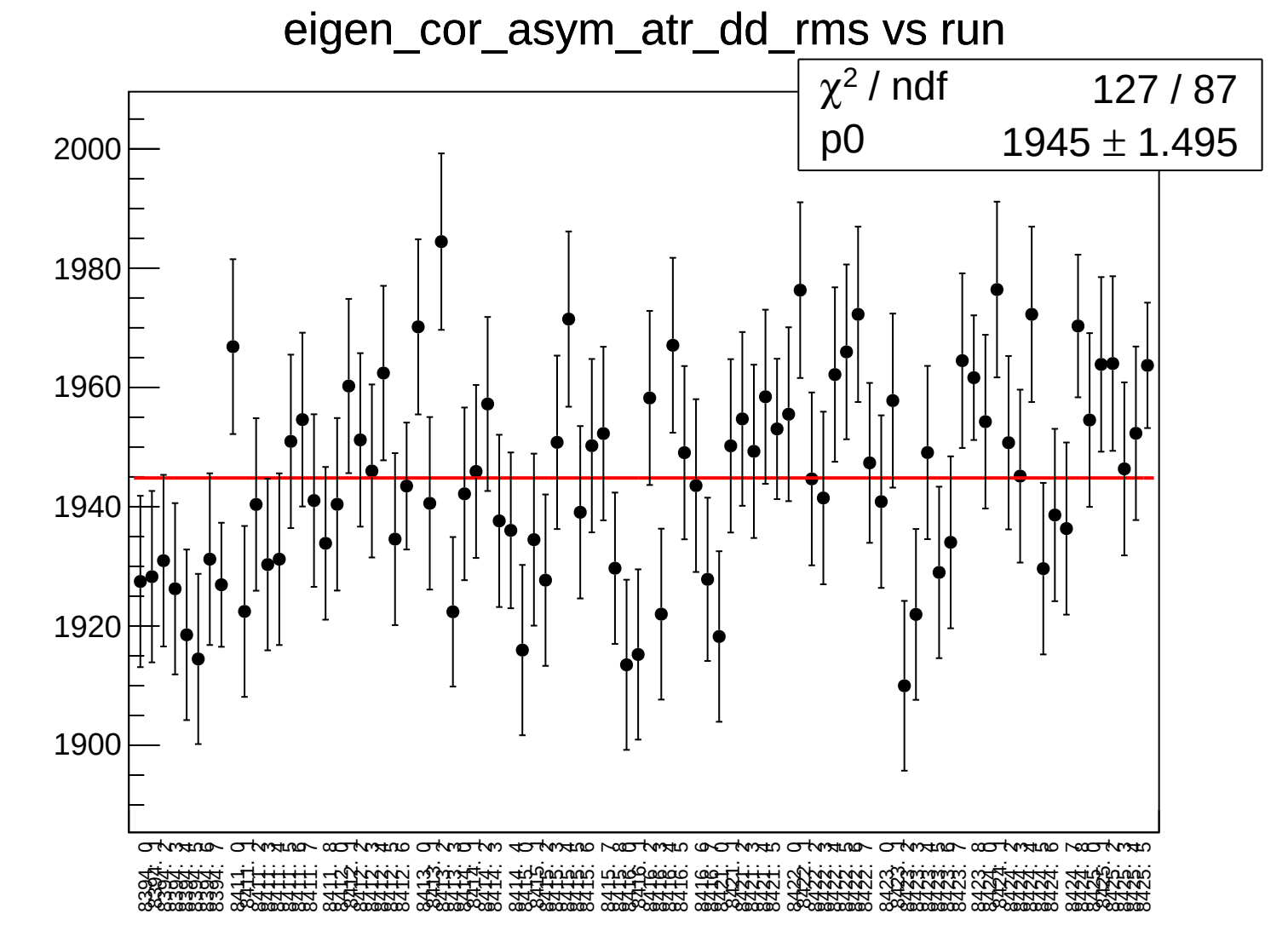

cor_asym_atr_dd_rms vs run
χ² / ndf 127 / 87
p0 1945 ± 1.495
2000
1980
1960
1940
1920
1900

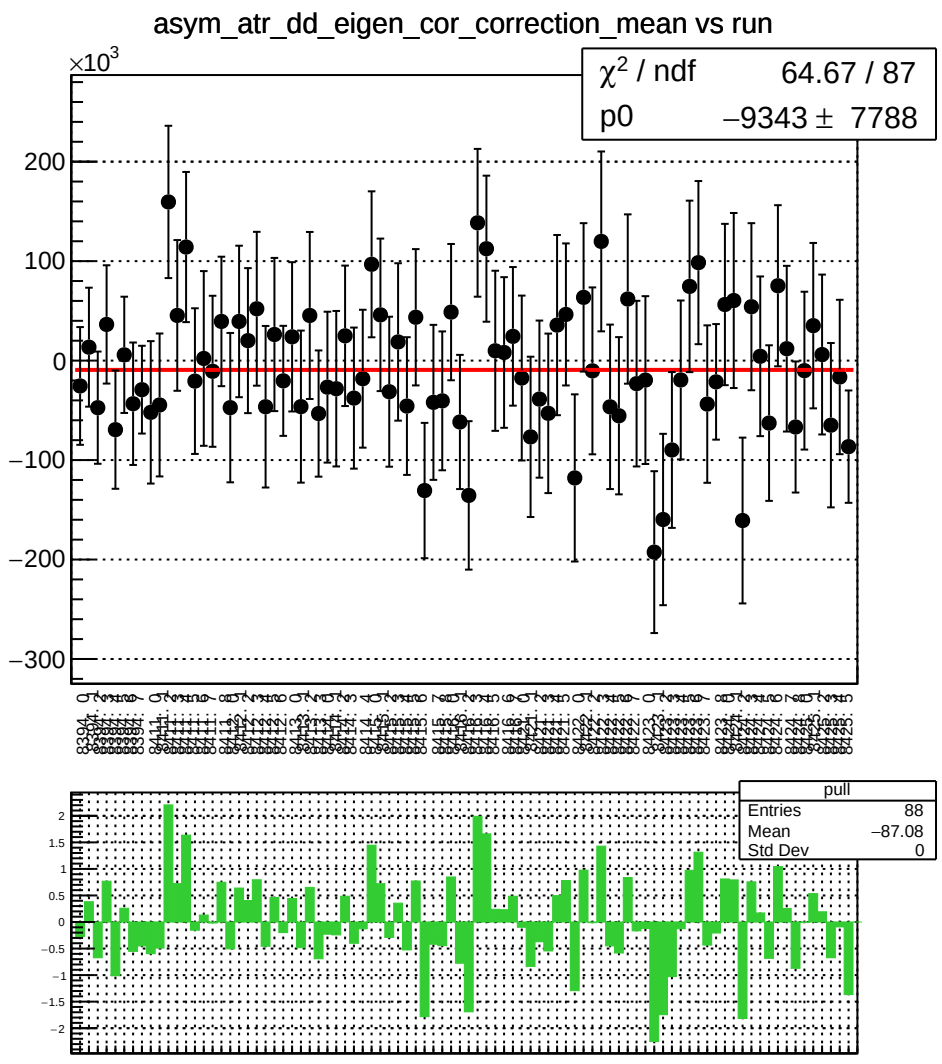

asym_atr_dd_cor_correction_mean vs run
×10^3
χ² / ndf 64.67 / 87
p0 −9343 ± 7788
200
100
0
−100
−200
−300
pull
Entries 88
Mean −87.08
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

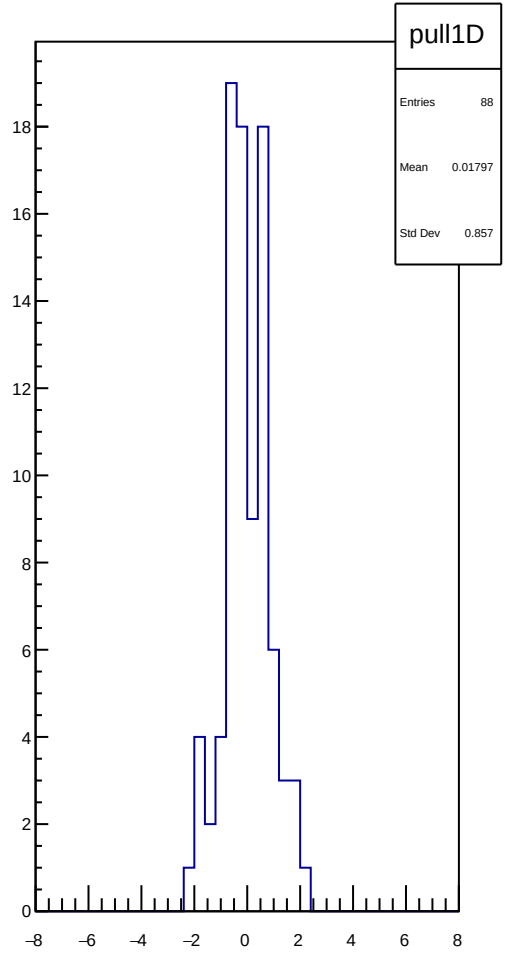

pull1D
Entries 88
Mean 0.01797
Std Dev 0.857
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

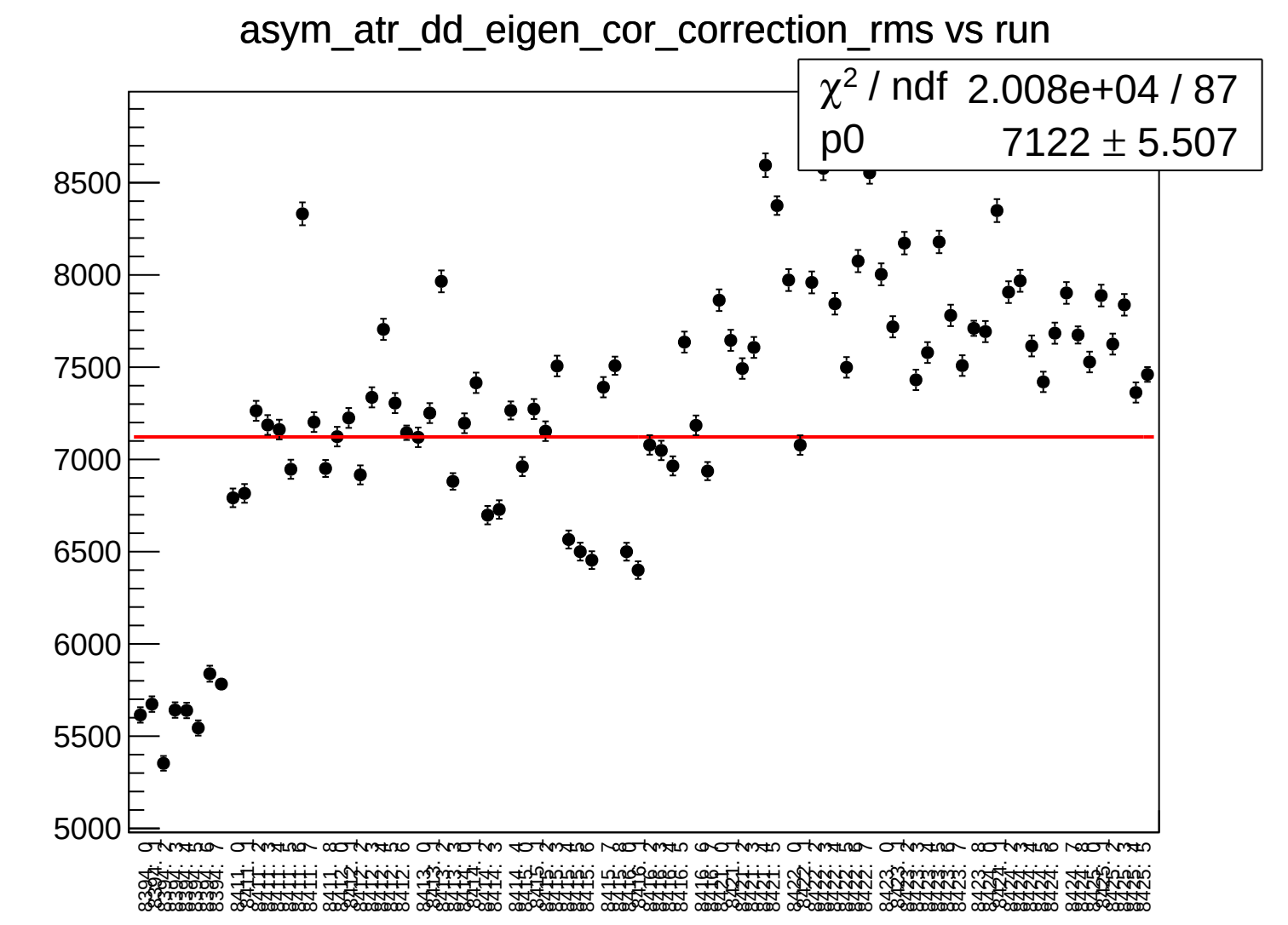

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 2.008e+04 / 87
p0 7122 ± 5.507
8500
8000
7500
7000
6500
6000
5500
5000

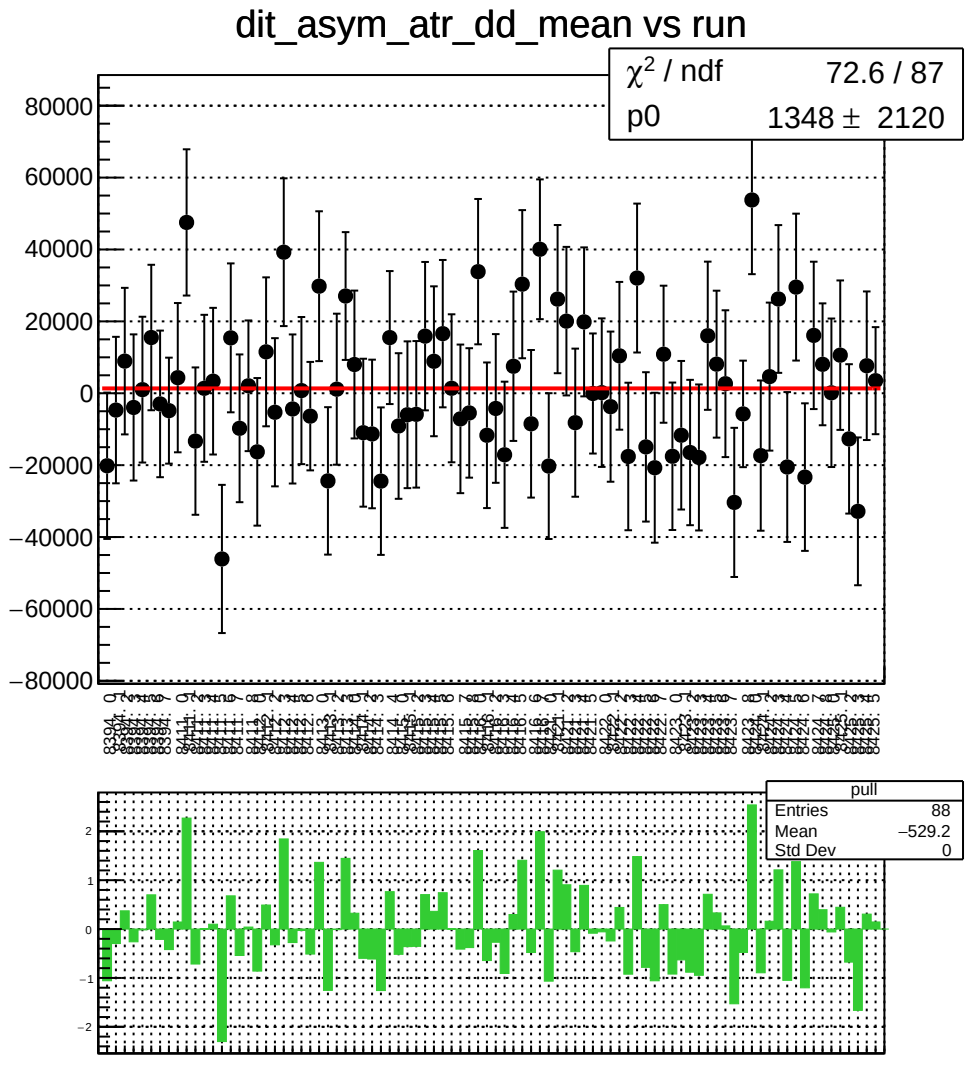

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 73.13 / 87
p0 1203 ± 2114
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 1293
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.0003375
Std Dev 0.9116
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

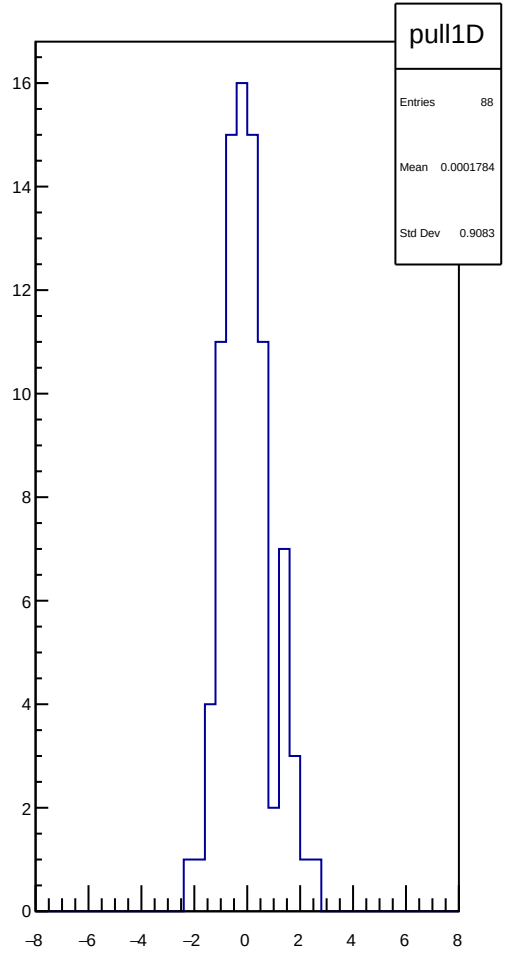

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 127 / 87
p0 1945 ± 1.495
2000
1980
1960
1940
1920
1900

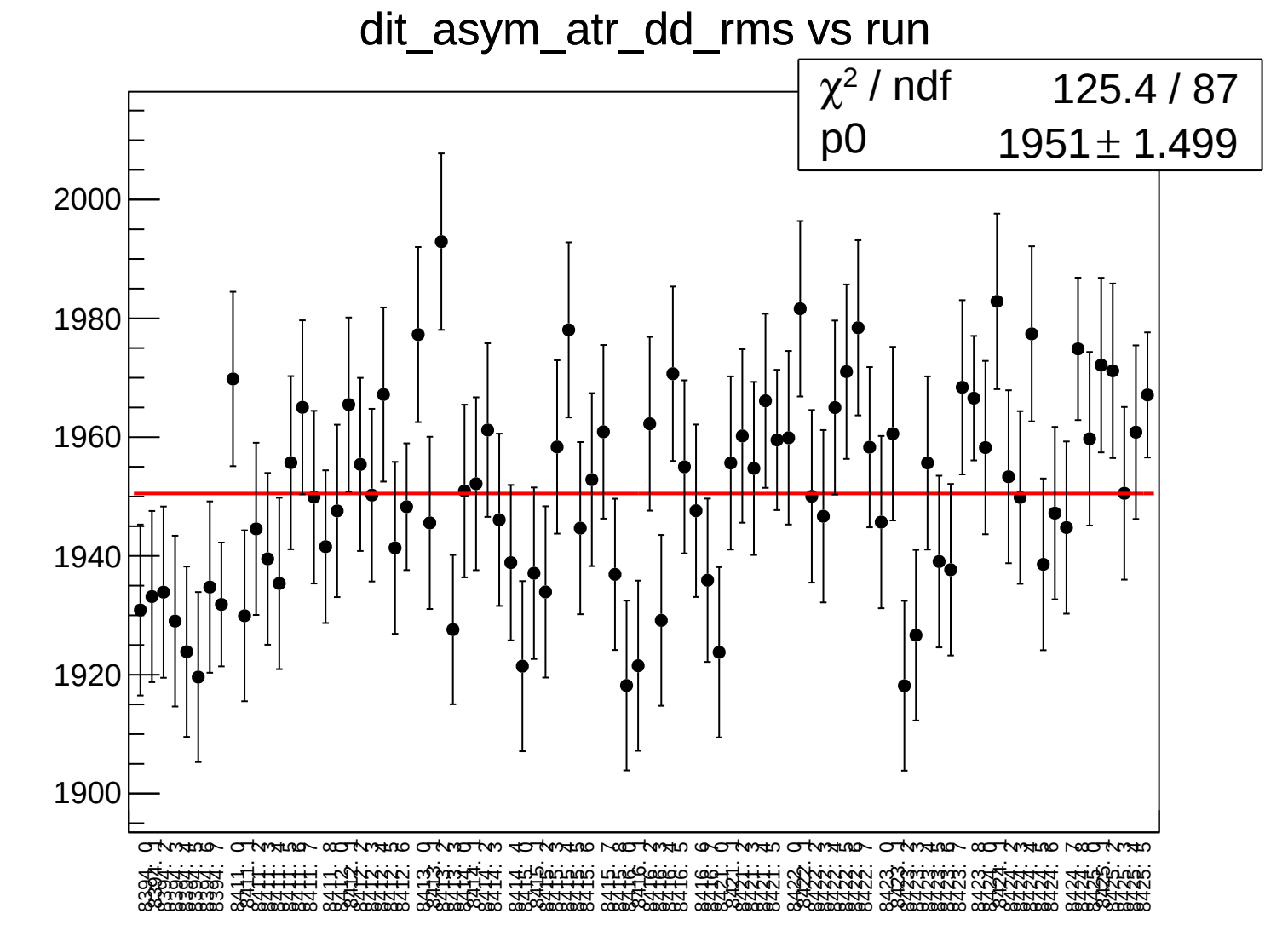

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 64.67 / 87
p0 −9343 ± 7788
200
100
0
−100
−200
−300
pull
Entries 88
Mean −87.08
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

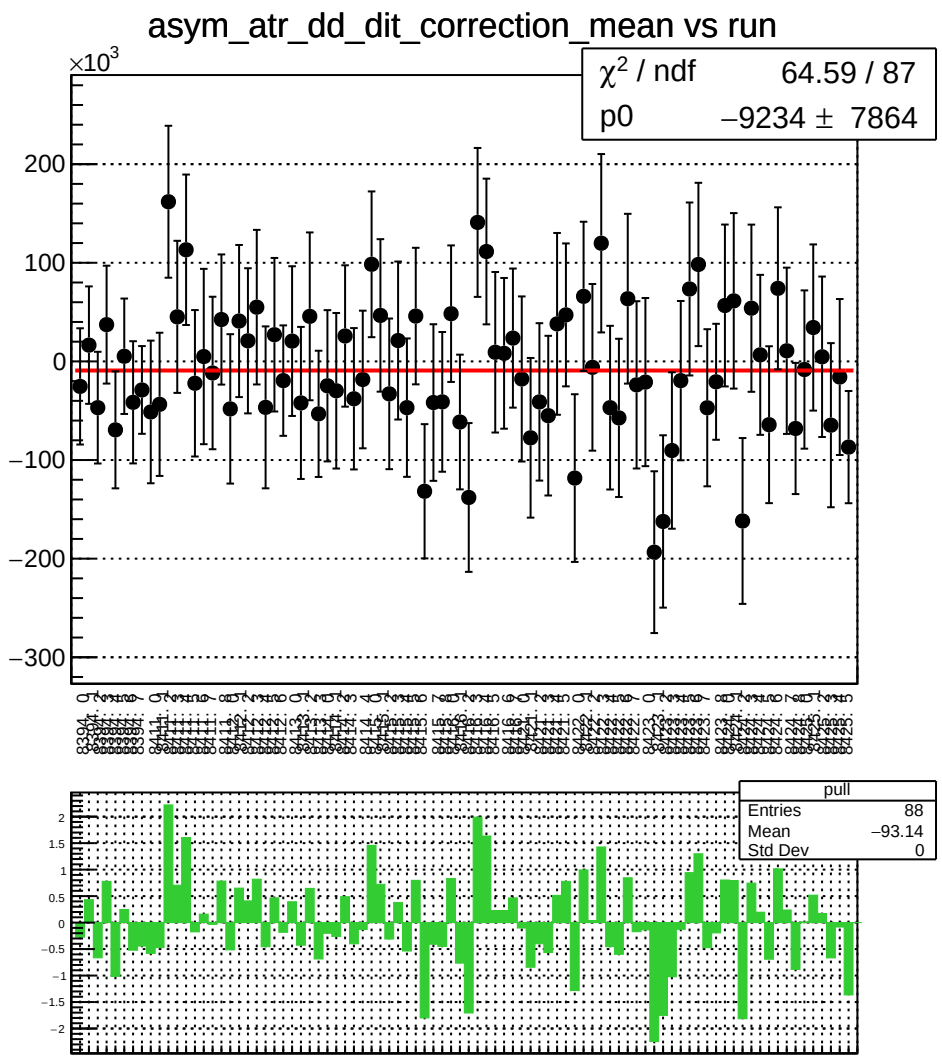

pull1D
Entries 88
Mean 0.01797
Std Dev 0.857
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

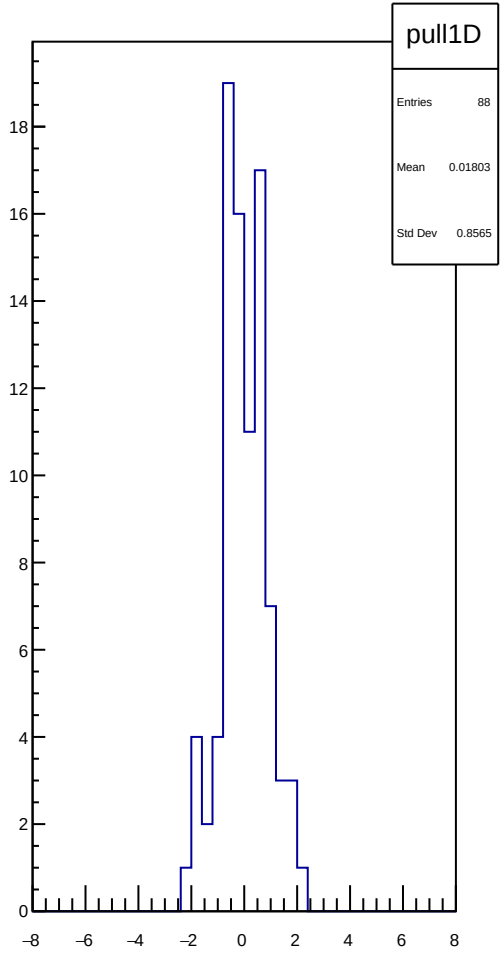

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.008e+04 / 87
p0 7122 ± 5.507
8500
8000
7500
7000
6500
6000
5500
5000

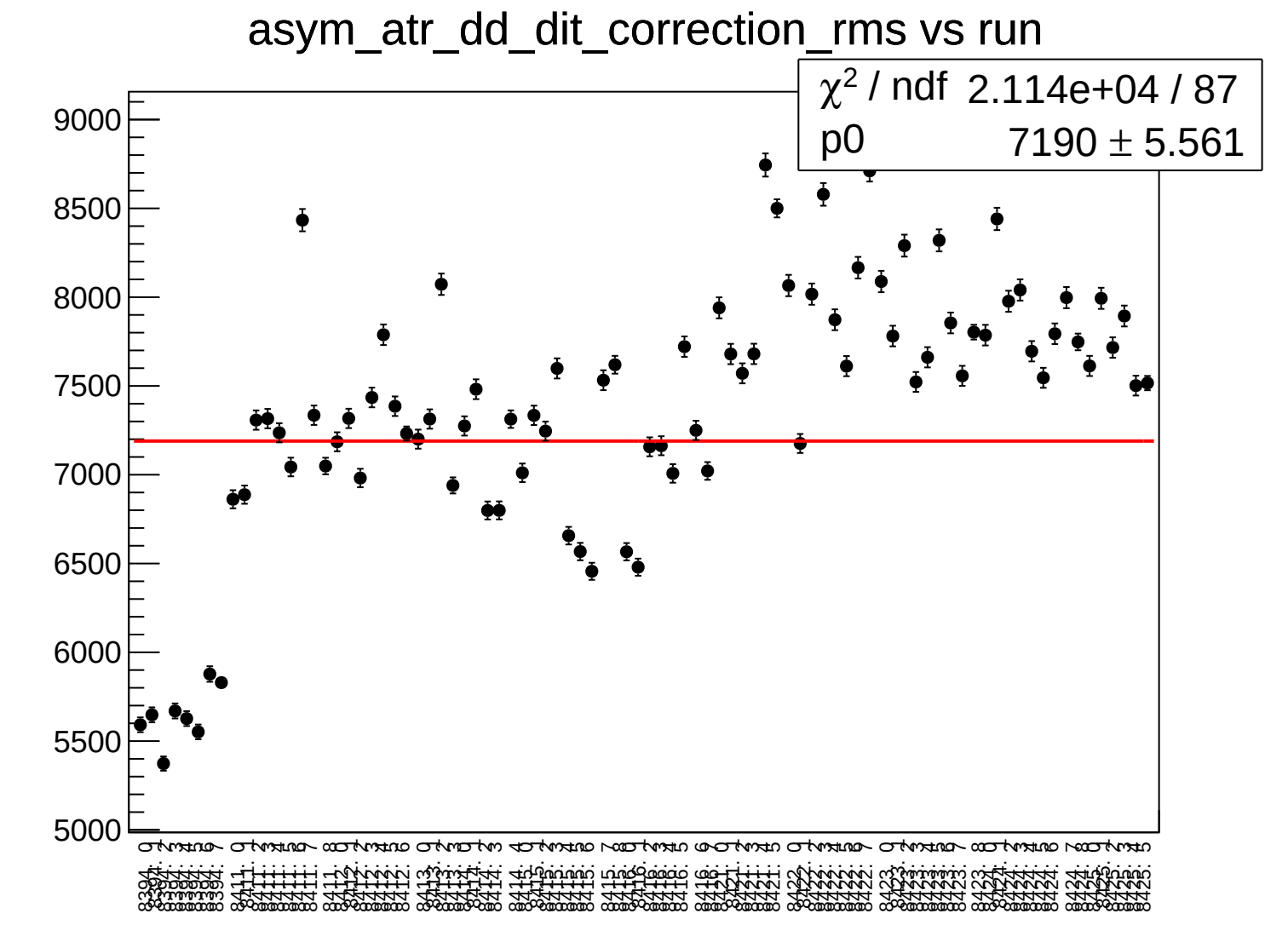

dit_asym_atr_dd_mean vs run
χ² / ndf 72.6 / 87
p0 1348 ± 2120
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −529.2
Std Dev 0
2
1
0
−1
−2

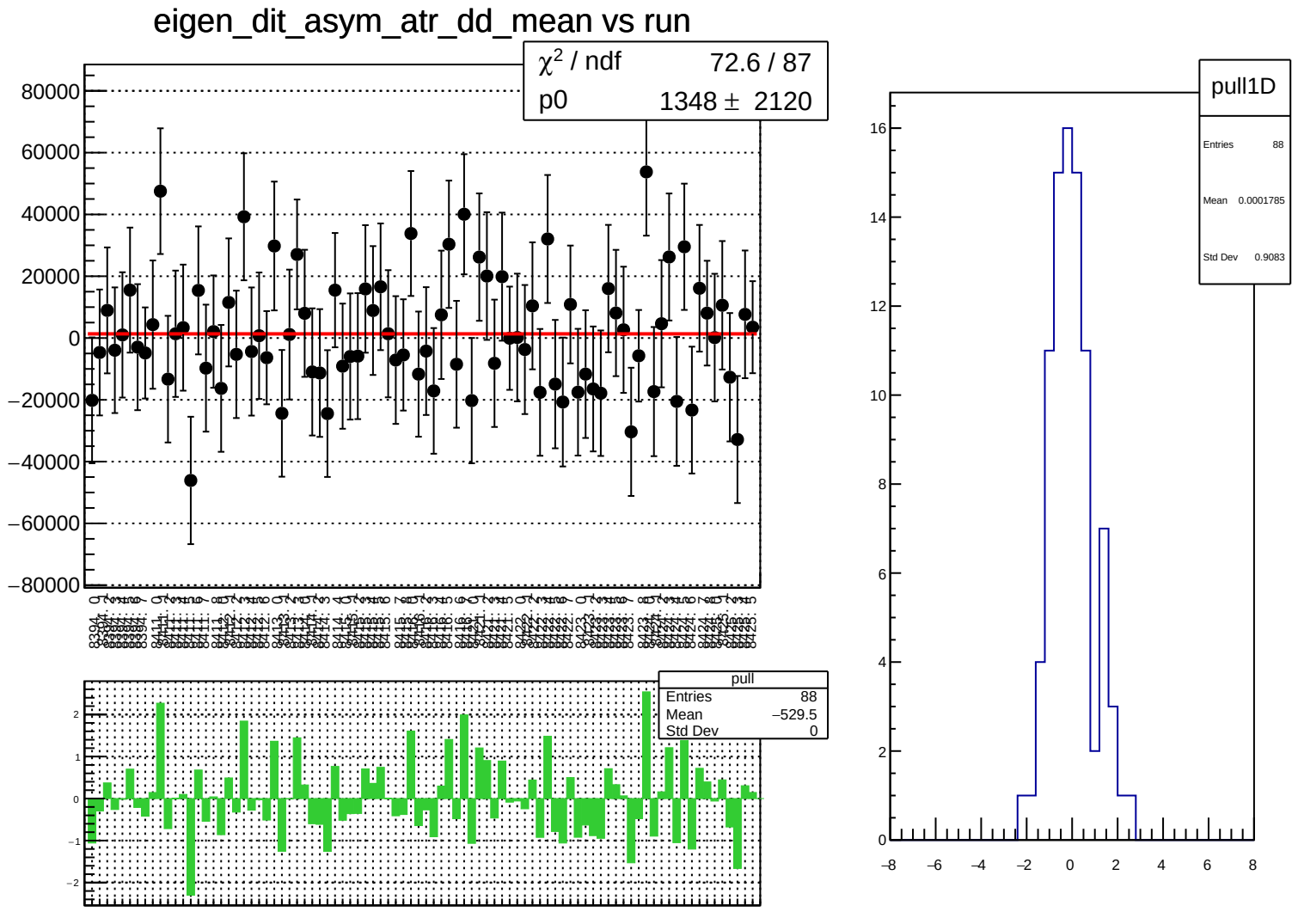

pull1D
Entries 88
Mean 0.0001784
Std Dev 0.9083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

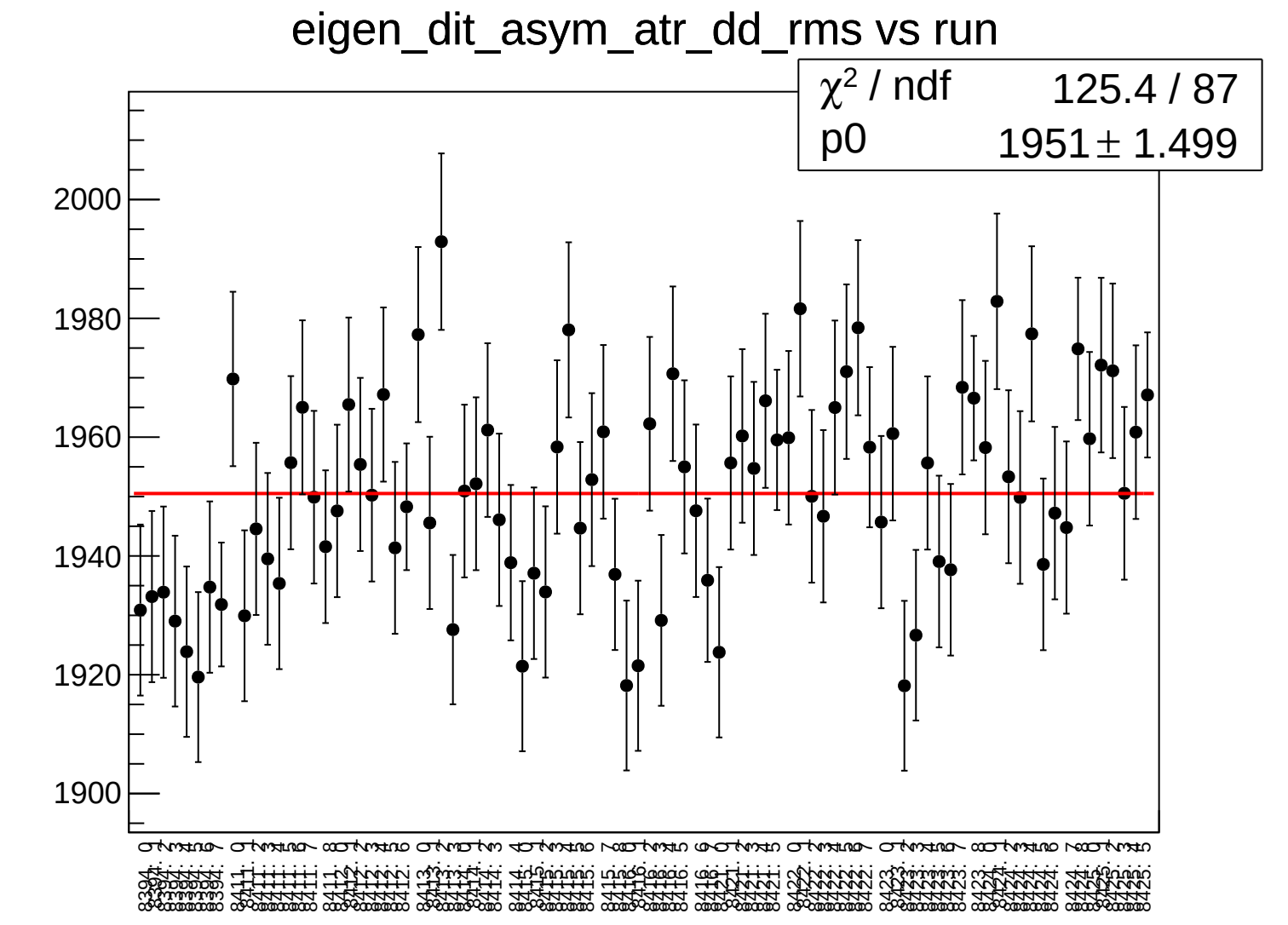

dit_asym_atr_dd_rms vs run
χ^2 / ndf 125.4 / 87
p0 1951 ± 1.499
2000
1980
1960
1940
1920
1900

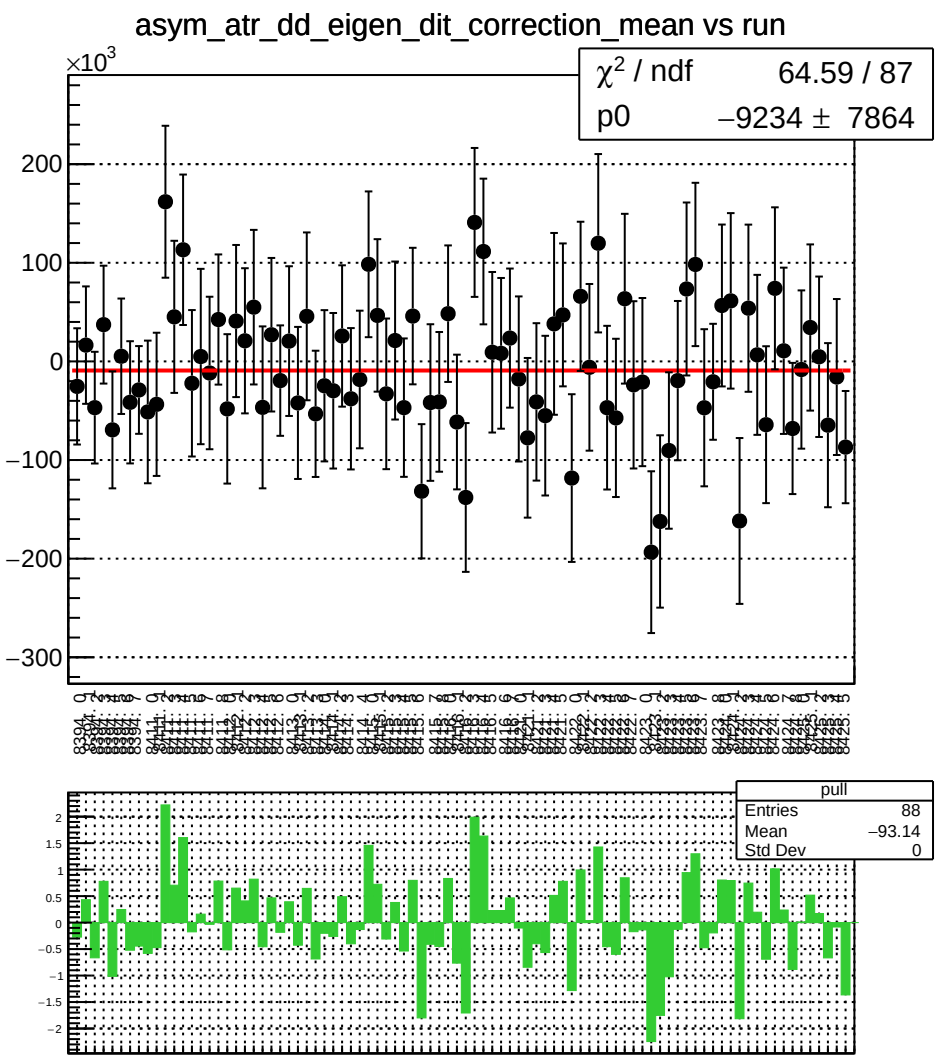

asym_atr_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 64.59 / 87
p0 −9234 ± 7864
200
100
0
−100
−200
−300
pull
Entries 88
Mean −93.14
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

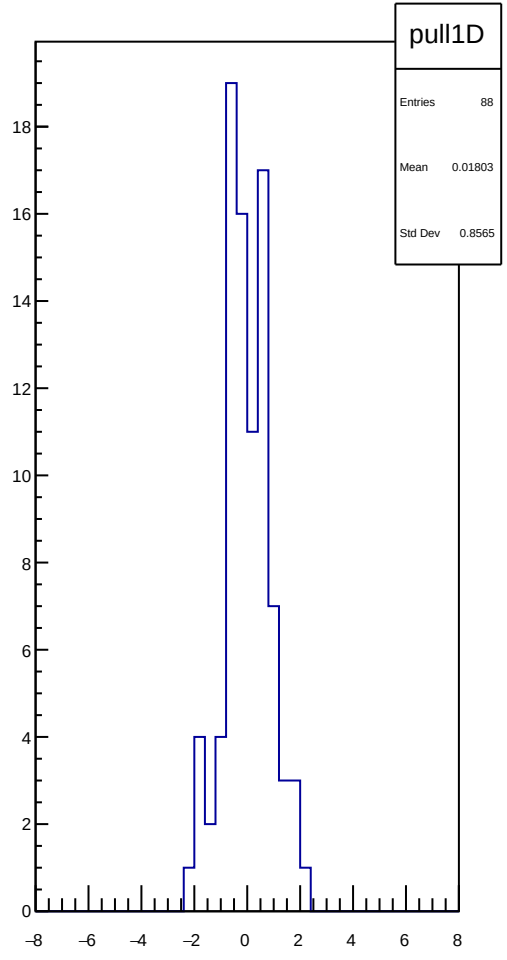

pull1D
Entries 88
Mean 0.01803
Std Dev 0.8565
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

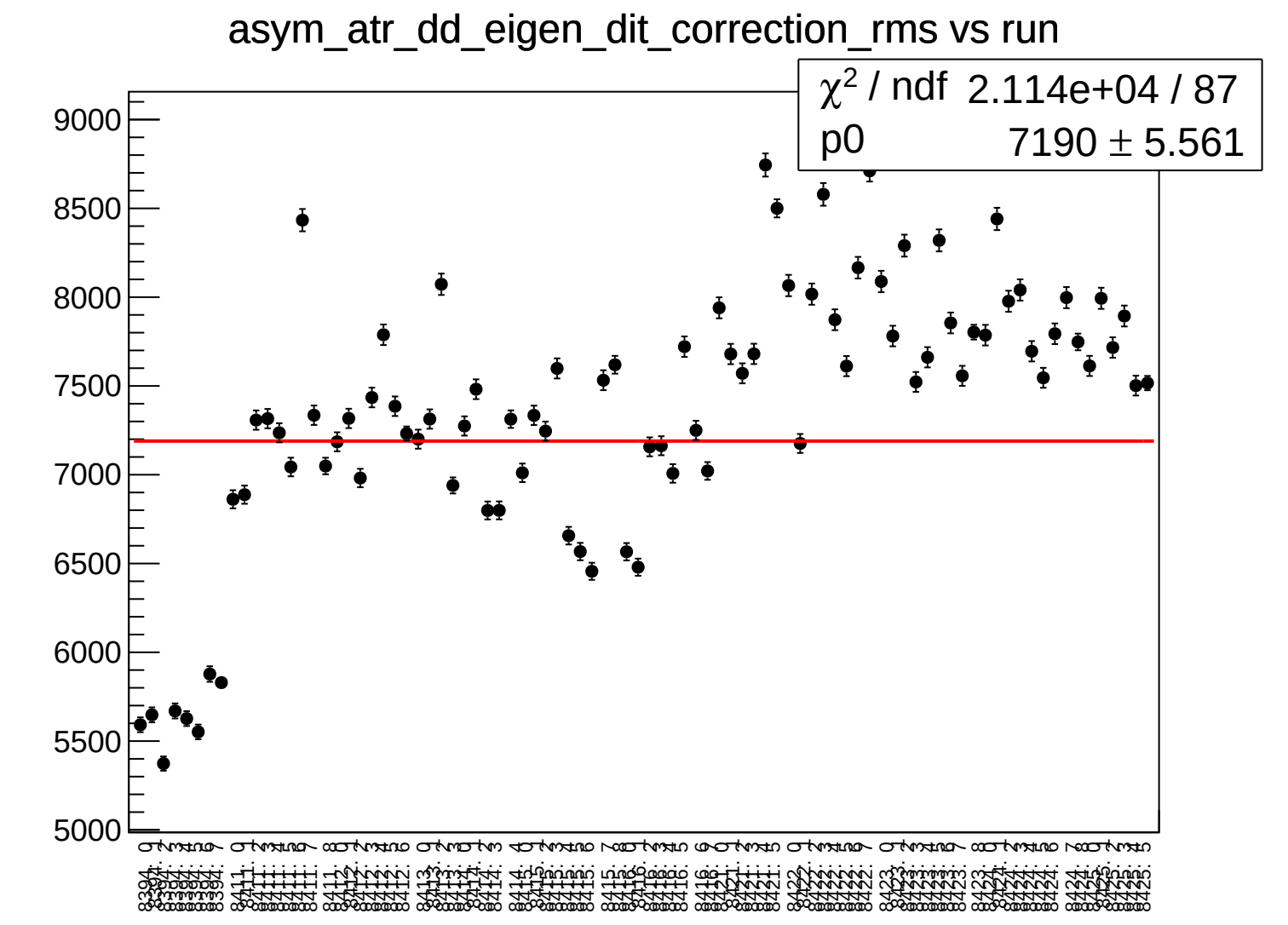

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 2.114e+04 / 87
p0 7190 ± 5.561
9000
8500
8000
7500
7000
6500
6000
5500
5000

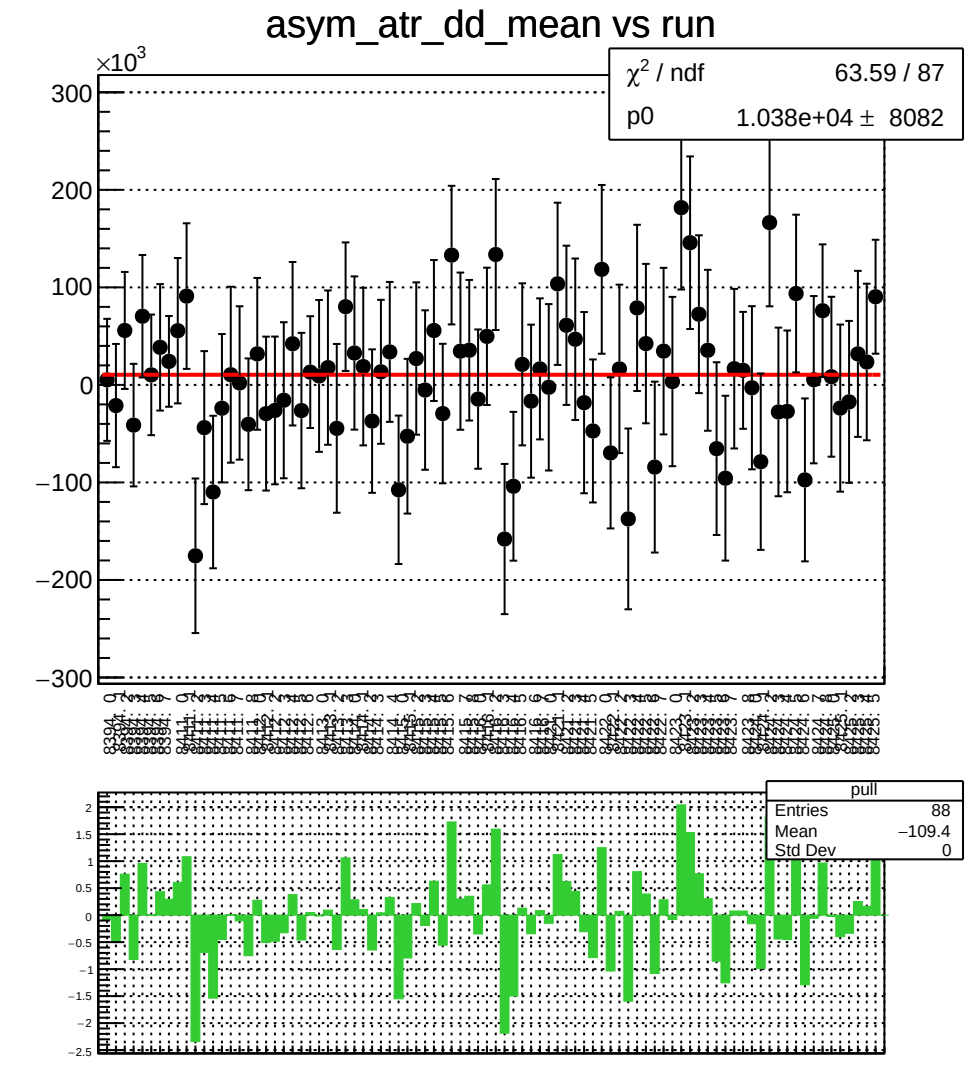

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 72.6 / 87
p0 1348 ± 2120
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −529.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.0001785
Std Dev 0.9083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

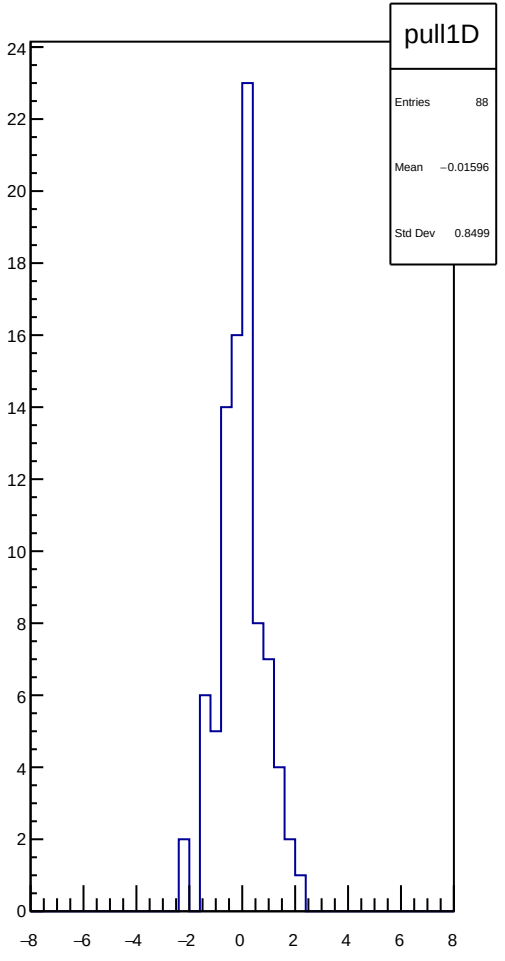

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 125.4 / 87
p0 1951 ± 1.499
2000
1980
1960
1940
1920
1900

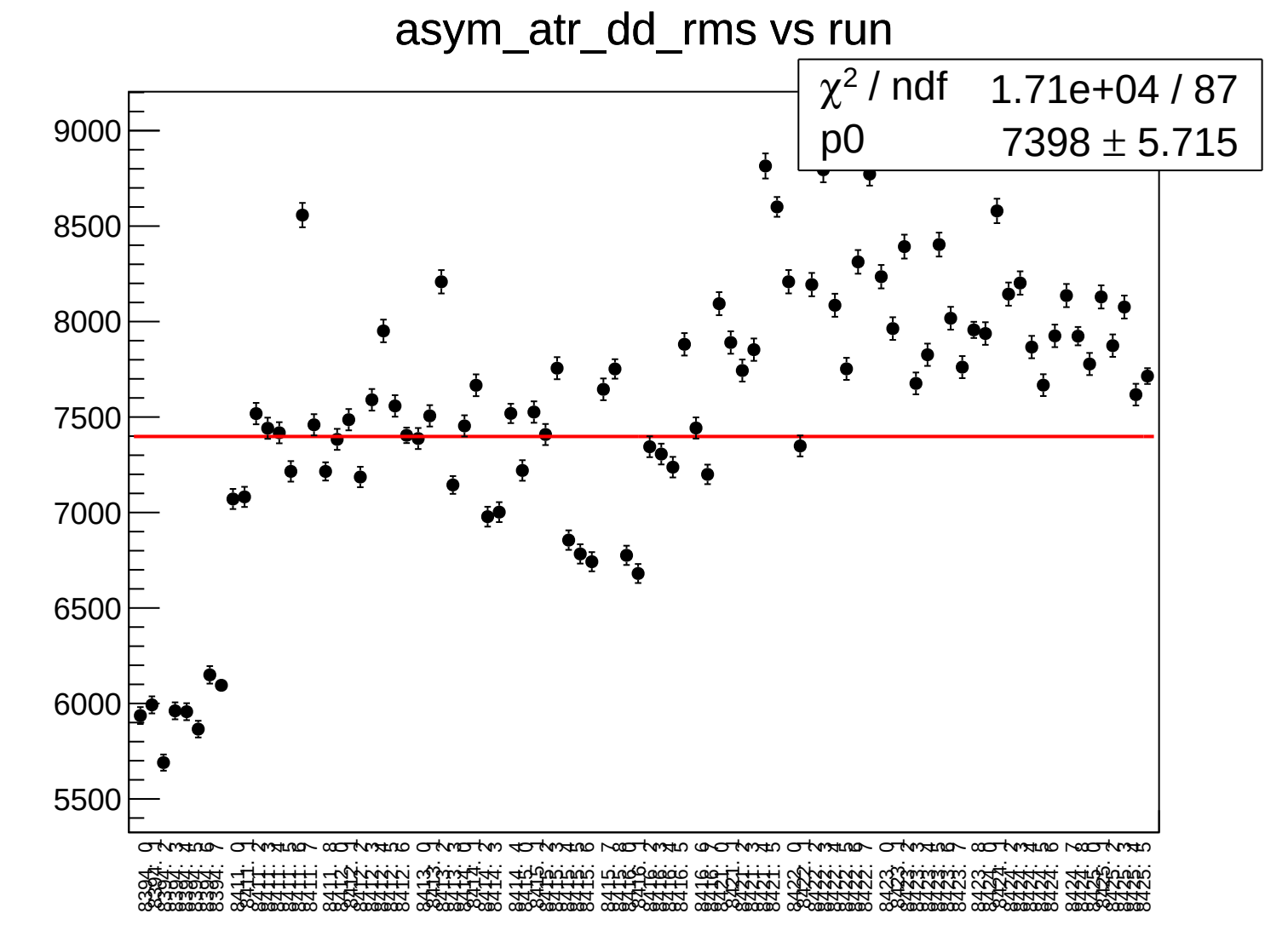

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 64.59 / 87
p0 −9234 ± 7864
200
100
0
−100
−200
−300
pull
Entries 88
Mean −93.14
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

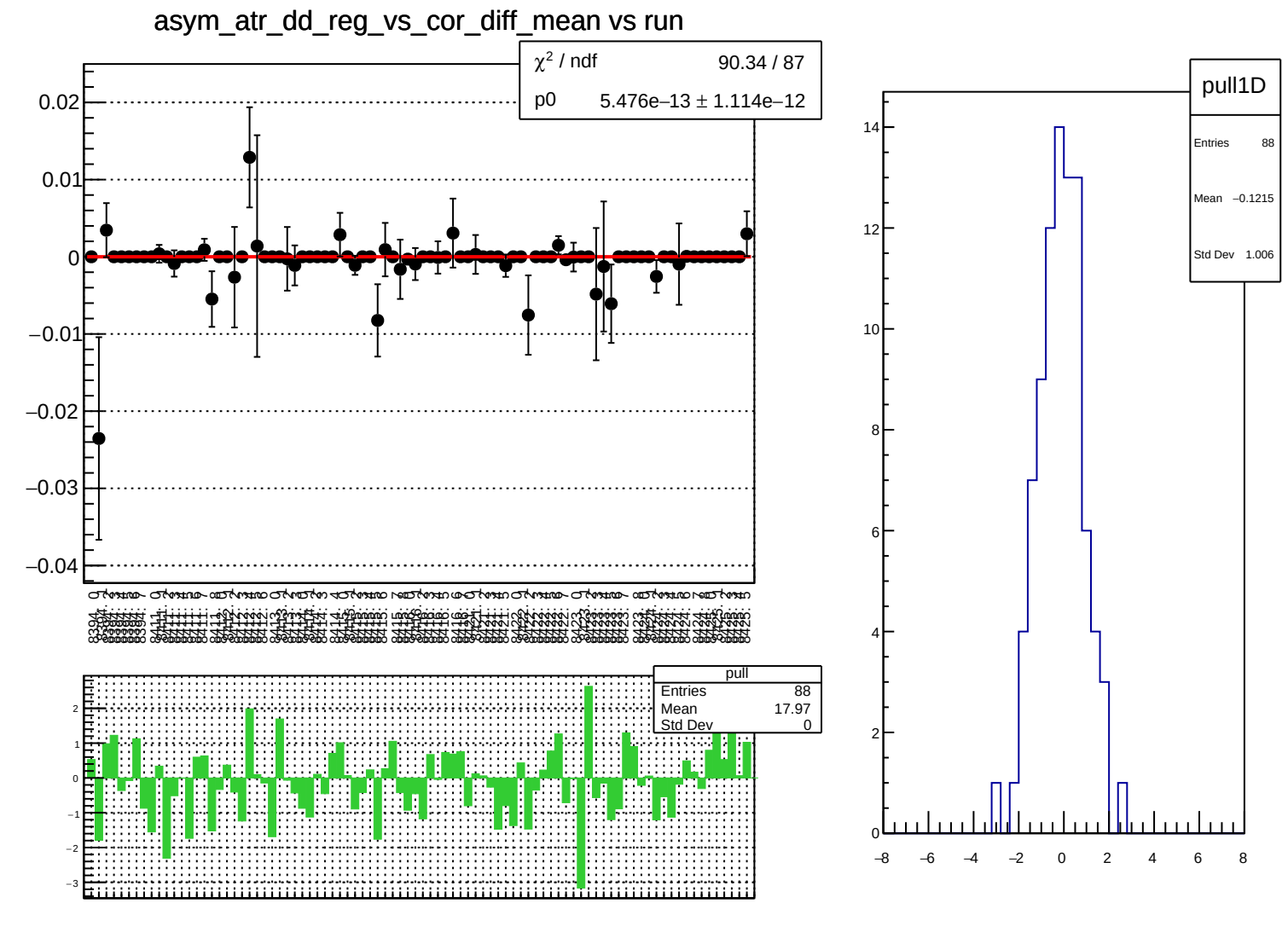

pull1D
Entries 88
Mean 0.01803
Std Dev 0.8565
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

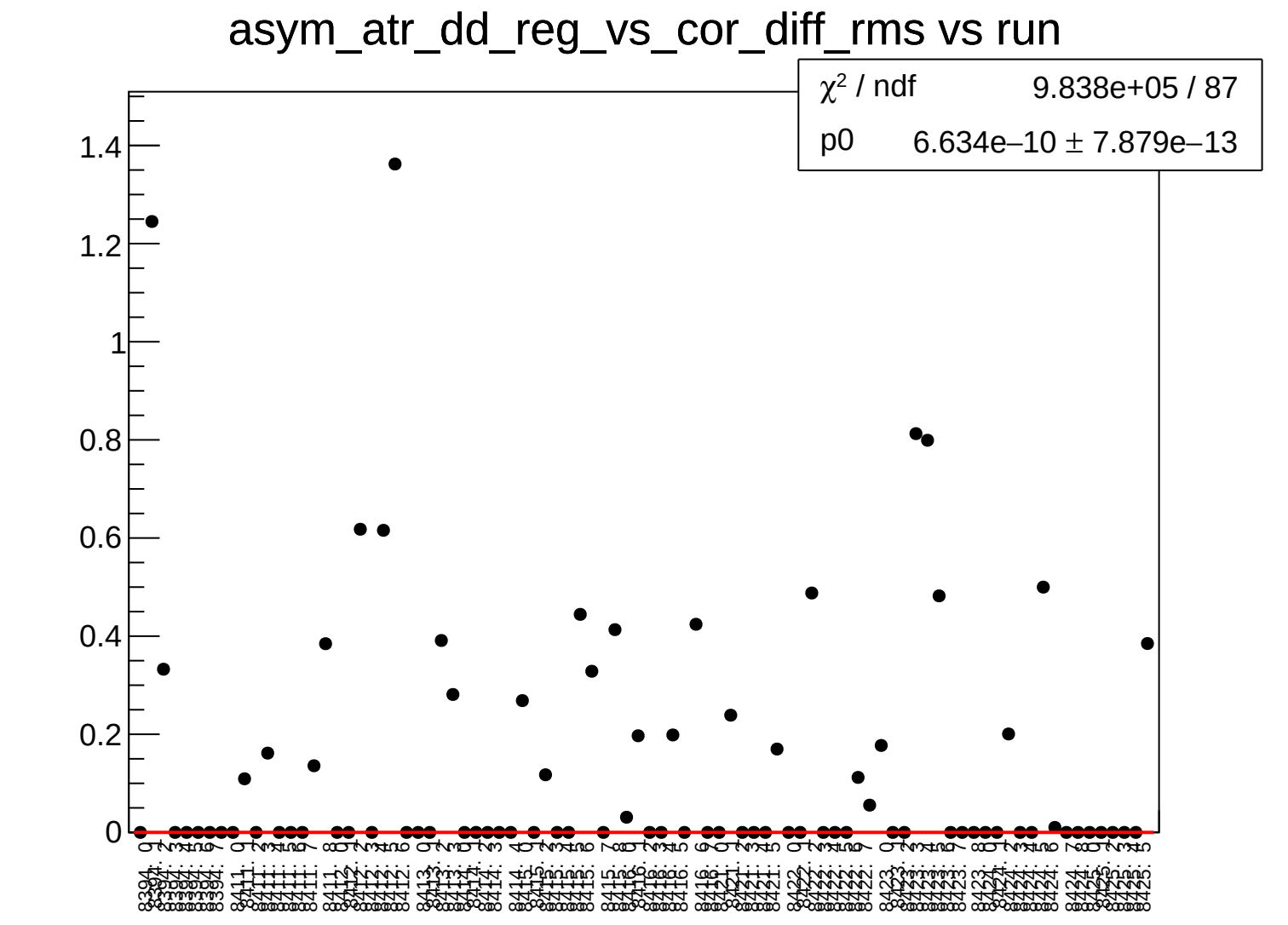

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.114e+04 / 87
p0 7190 ± 5.561
9000
8500
8000
7500
7000
6500
6000
5500
5000

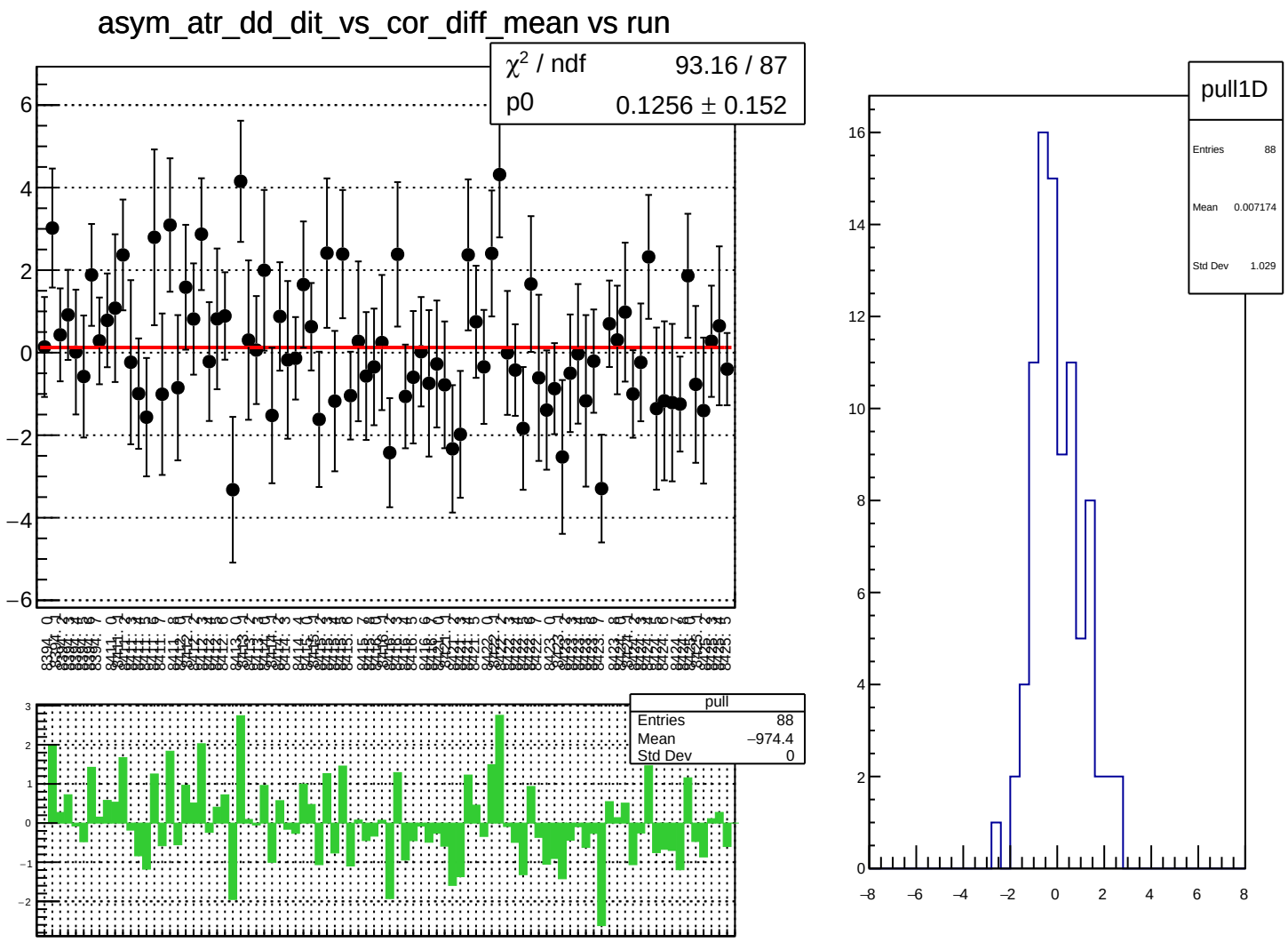

asym_atr_dd_mean vs run
×10^3
χ² / ndf 63.59 / 87
p0 1.038e+04 ± 8082
pull
Entries 88
Mean −109.4
Std Dev 0

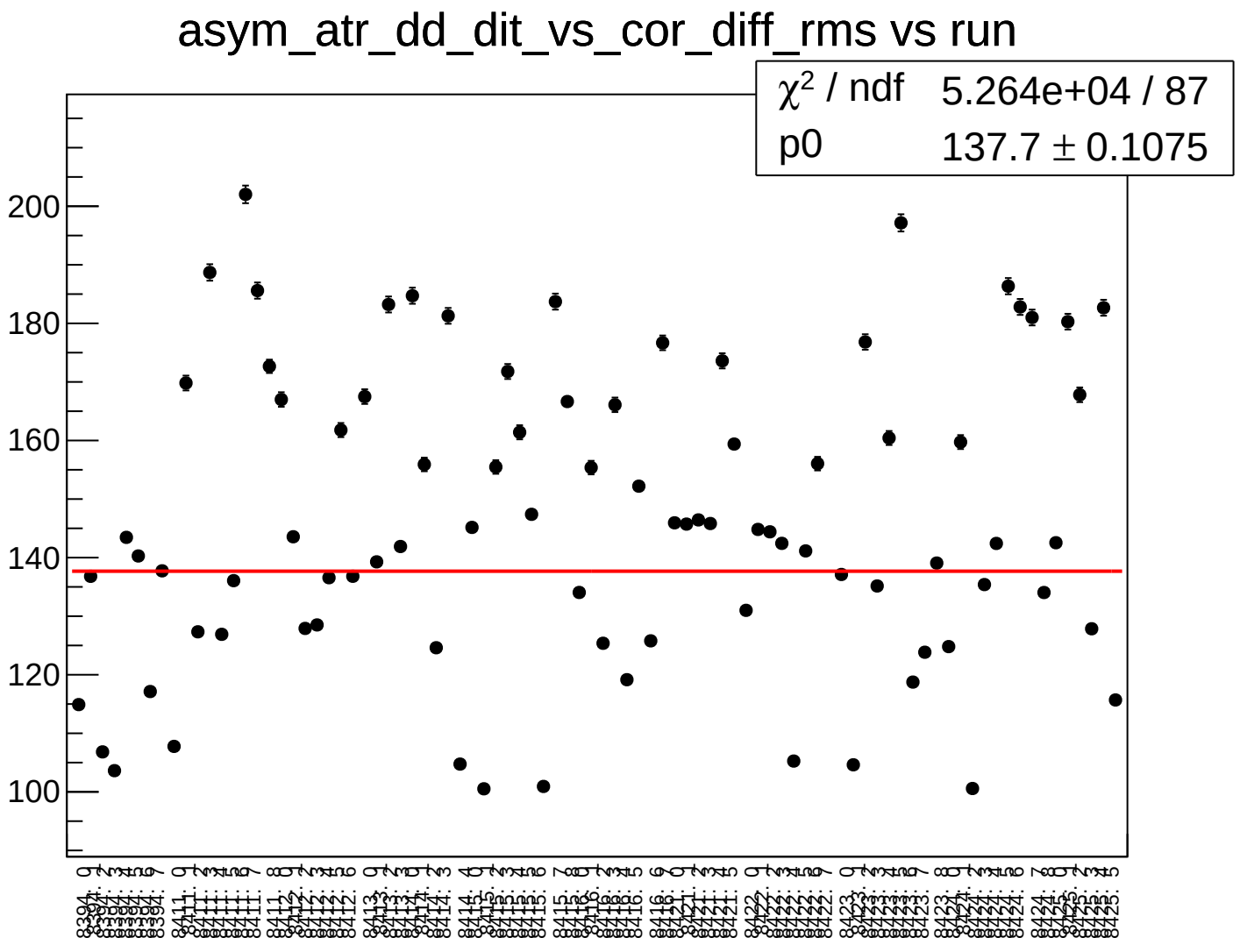

pull1D
Entries 88
Mean −0.01596
Std Dev 0.8499

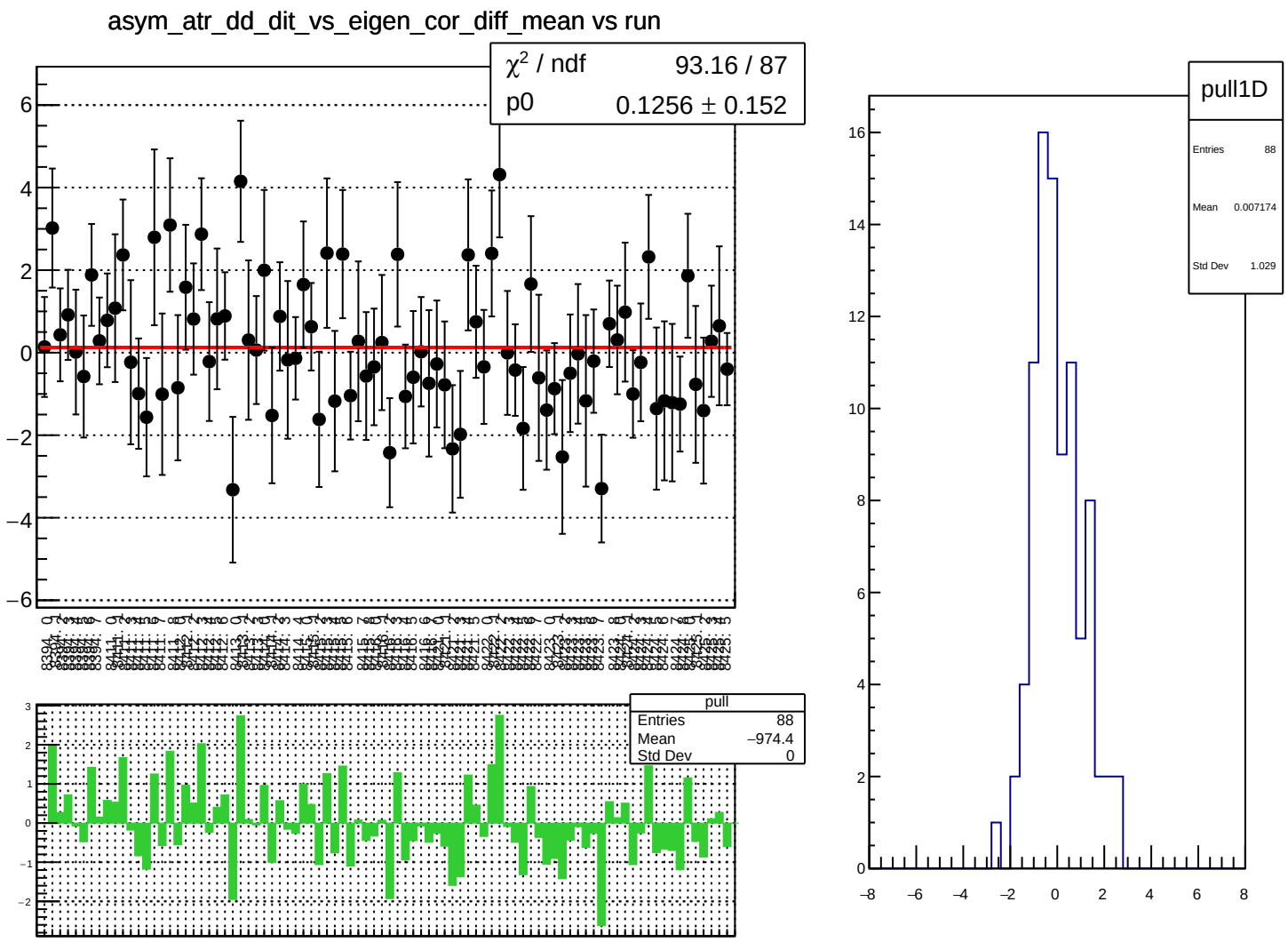

asym_atr_dd_rms vs run
χ^2 / ndf 1.71e+04 / 87
p0 7398 ± 5.715
9000
8500
8000
7500
7000
6500
6000
5500

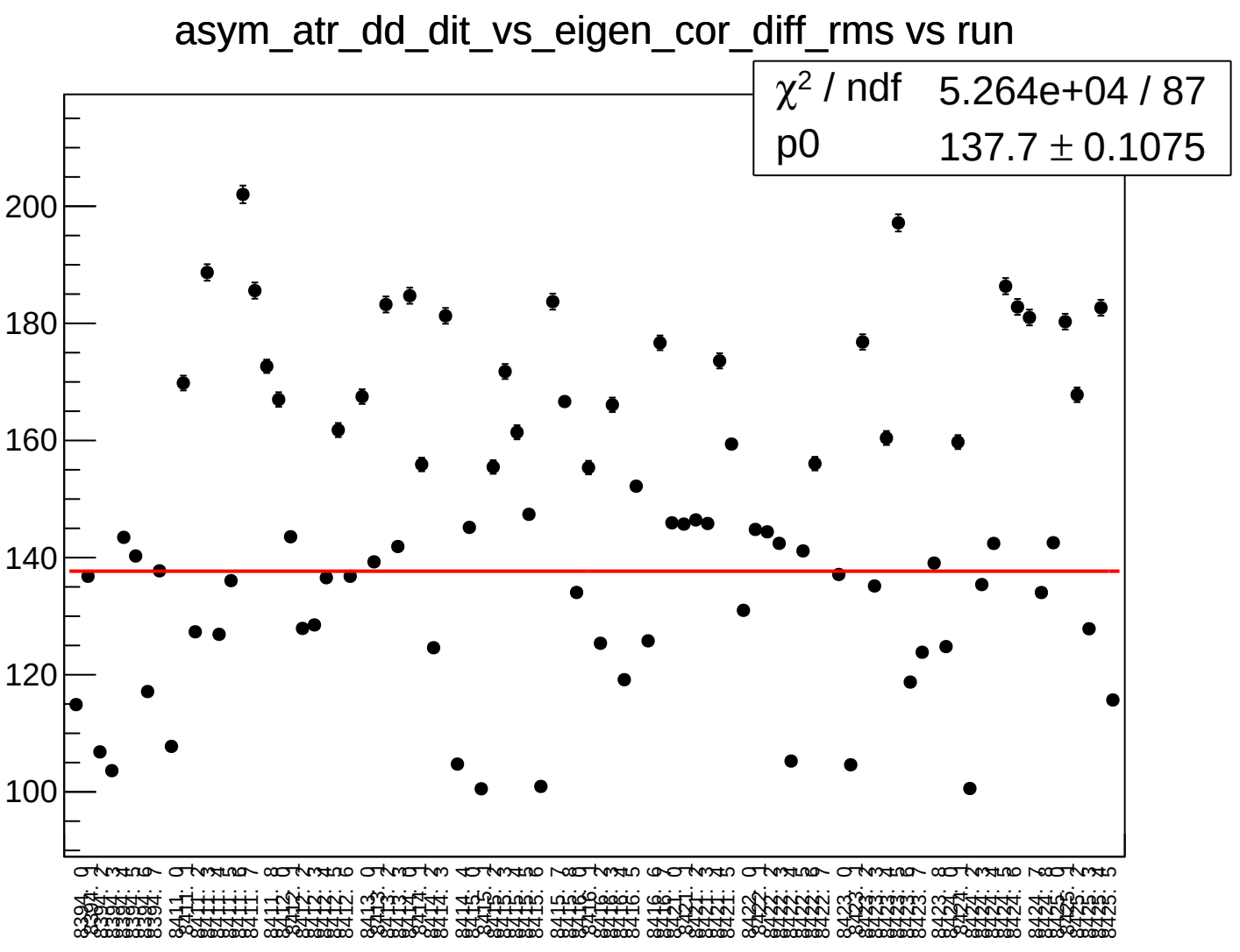

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.34 / 87
p0 5.476e−13 ± 1.114e−12
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 88
Mean 17.97
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.1215
Std Dev 1.006
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

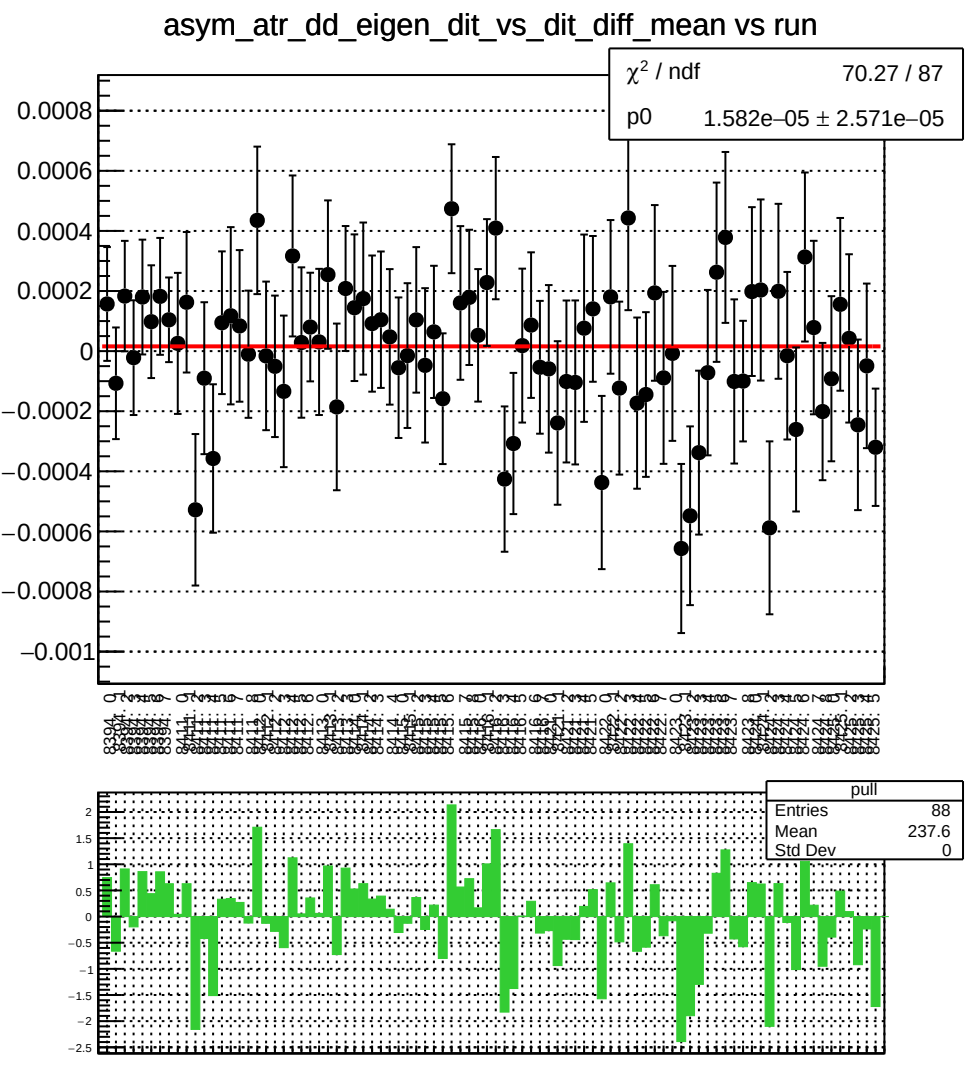

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.838e+05 / 87
p0 6.634e−10 ± 7.879e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

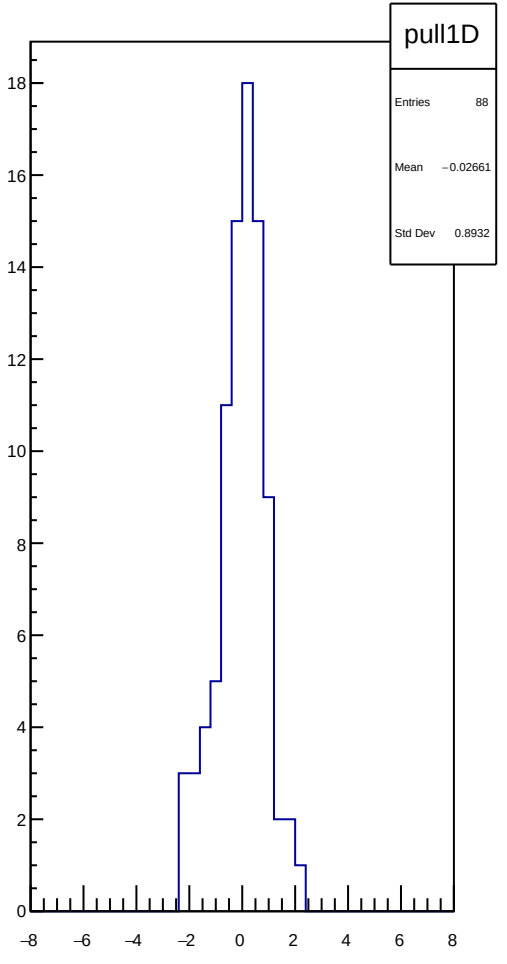

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.16 / 87
p0 0.1256 ± 0.152
pull
Entries 88
Mean −974.4
Std Dev 0
pull1D
Entries 88
Mean 0.007174
Std Dev 1.029

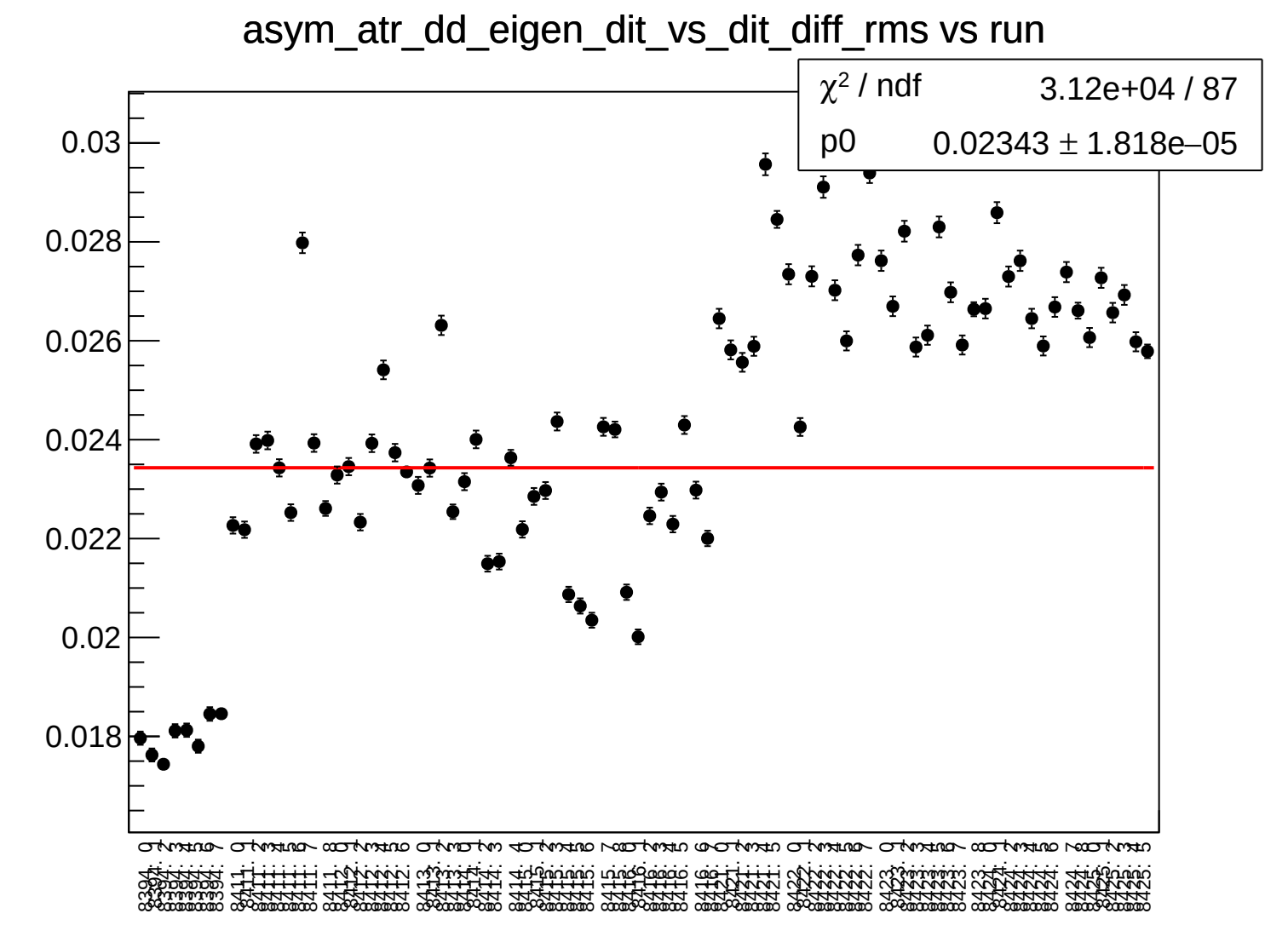

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.264e+04 / 87
p0 137.7 ± 0.1075
200
180
160
140
120
100

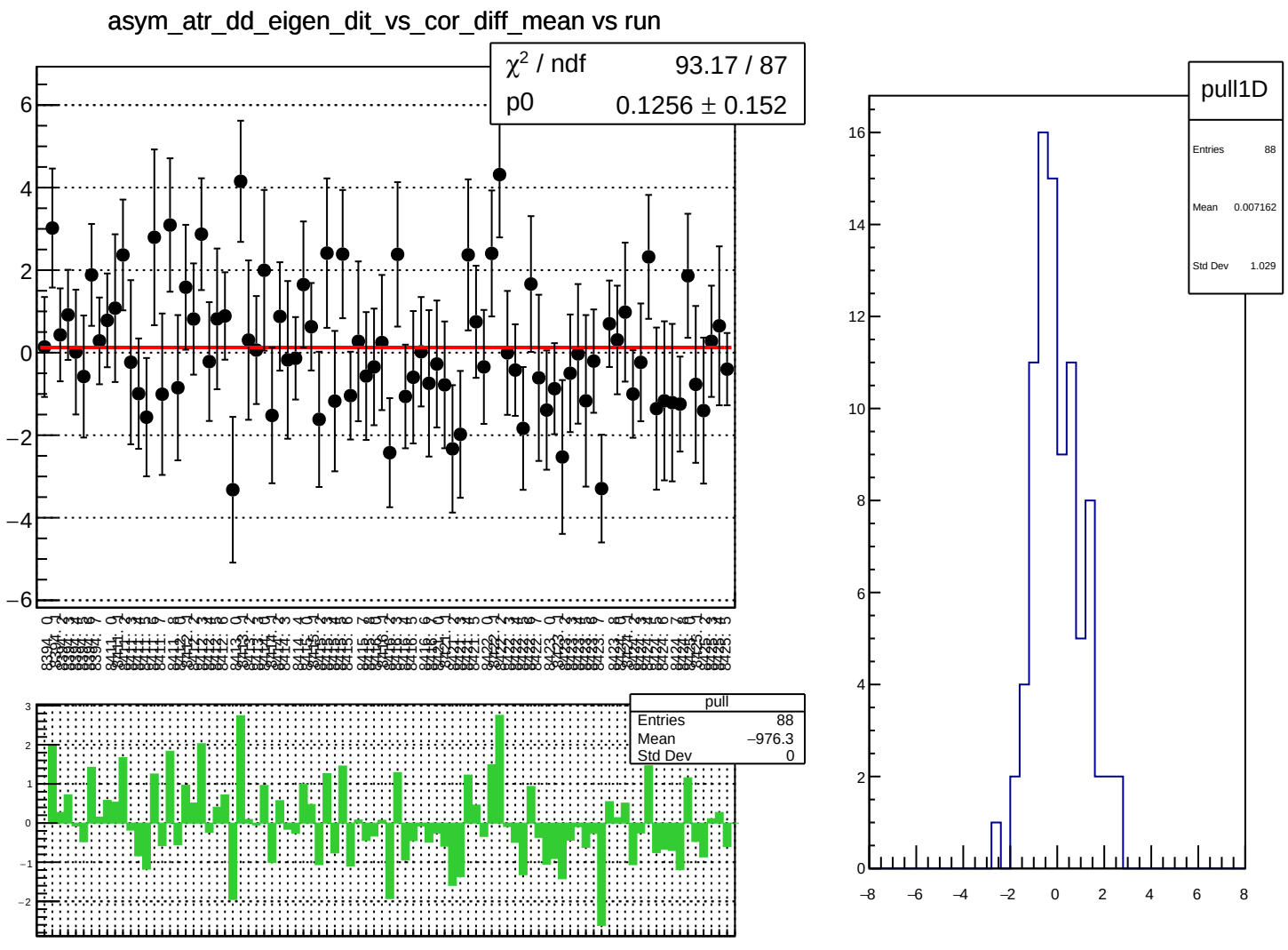

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.16 / 87
p0 0.1256 ± 0.152
pull
Entries 88
Mean −974.4
Std Dev 0
pull1D
Entries 88
Mean 0.007174
Std Dev 1.029

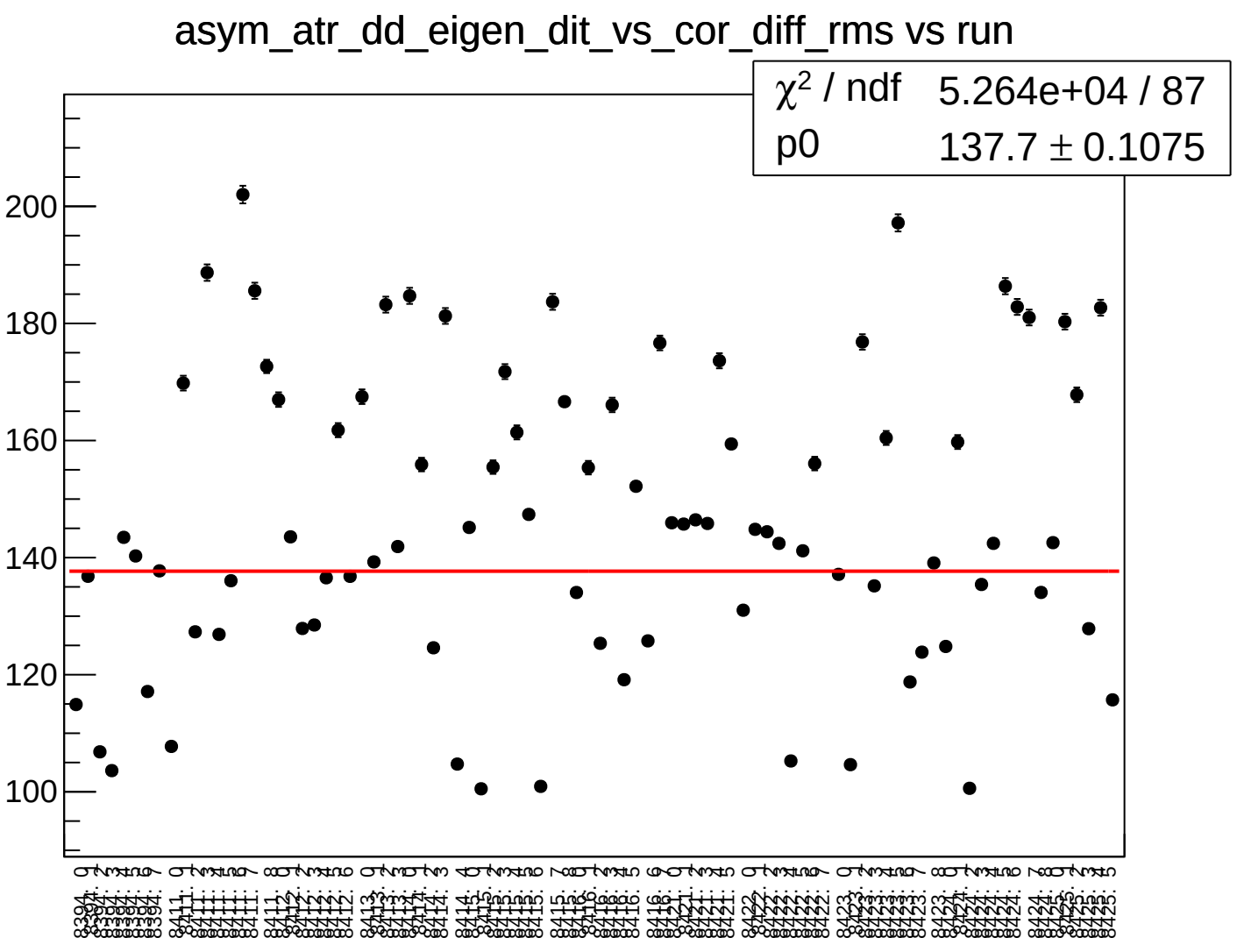

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.264e+04 / 87
p0 137.7 ± 0.1075
200
180
160
140
120
100

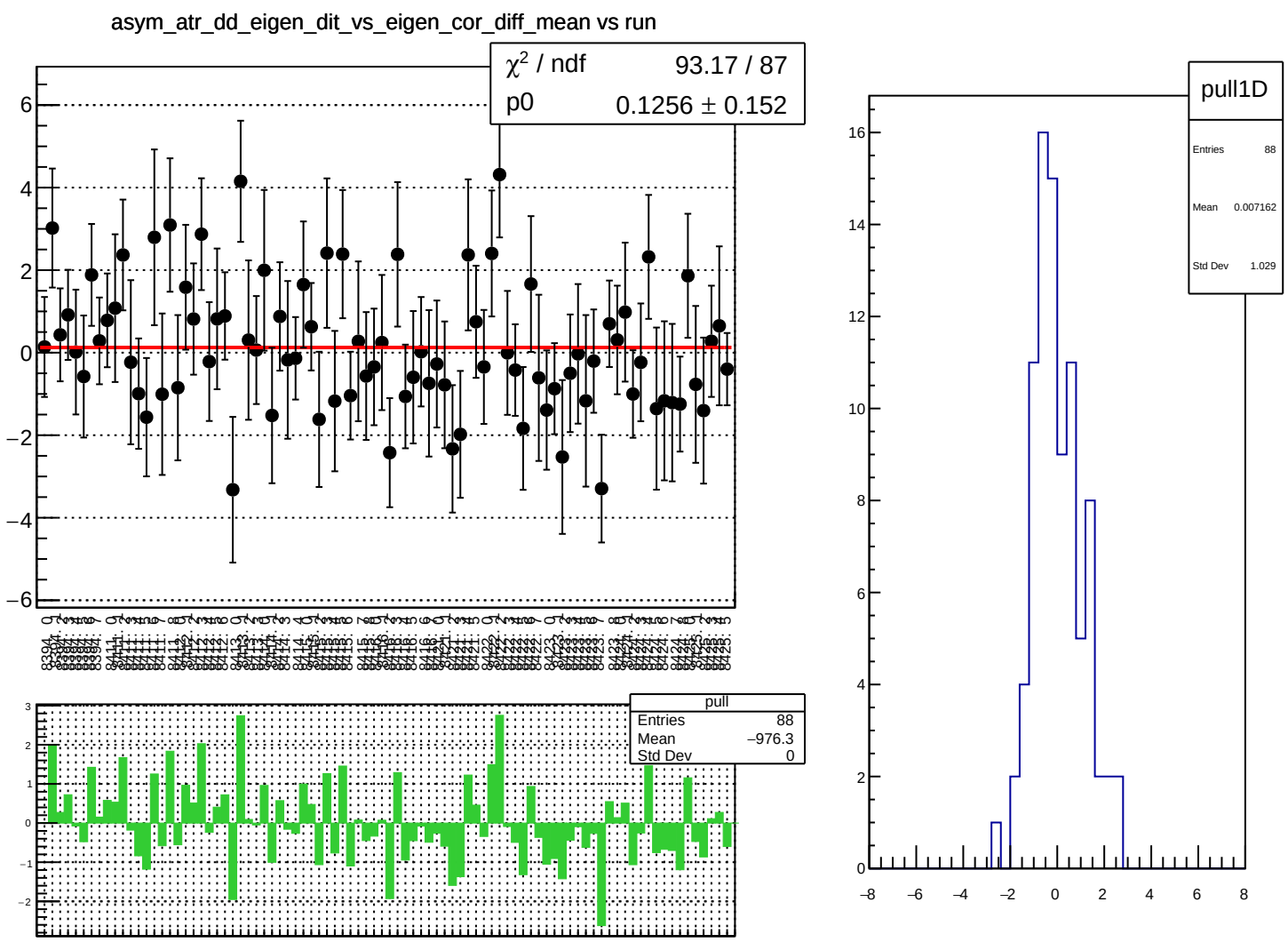

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 70.27 / 87
p0 1.582e−05 ± 2.571e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 88
Mean 237.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

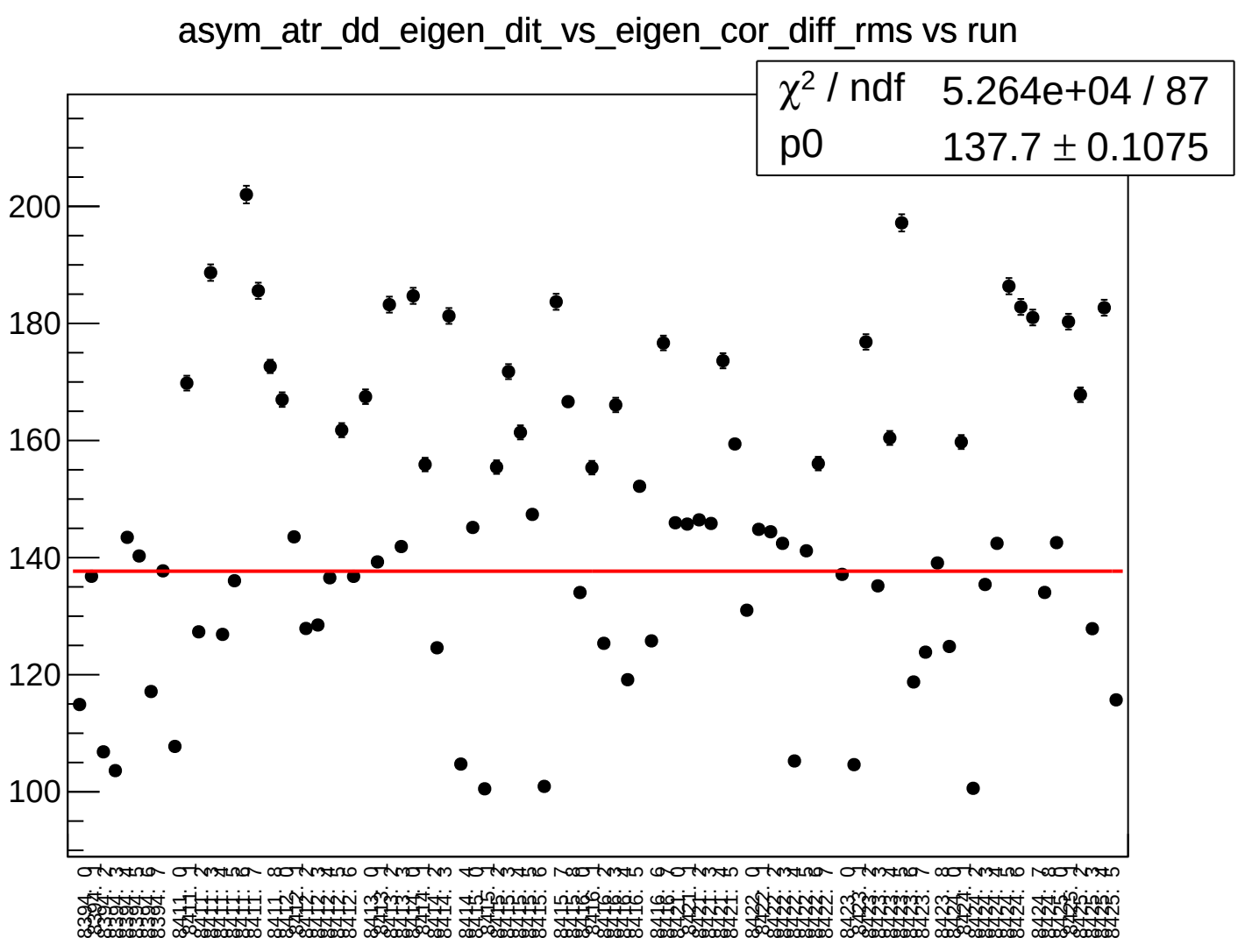

pull1D
Entries 88
Mean −0.02661
Std Dev 0.8932
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

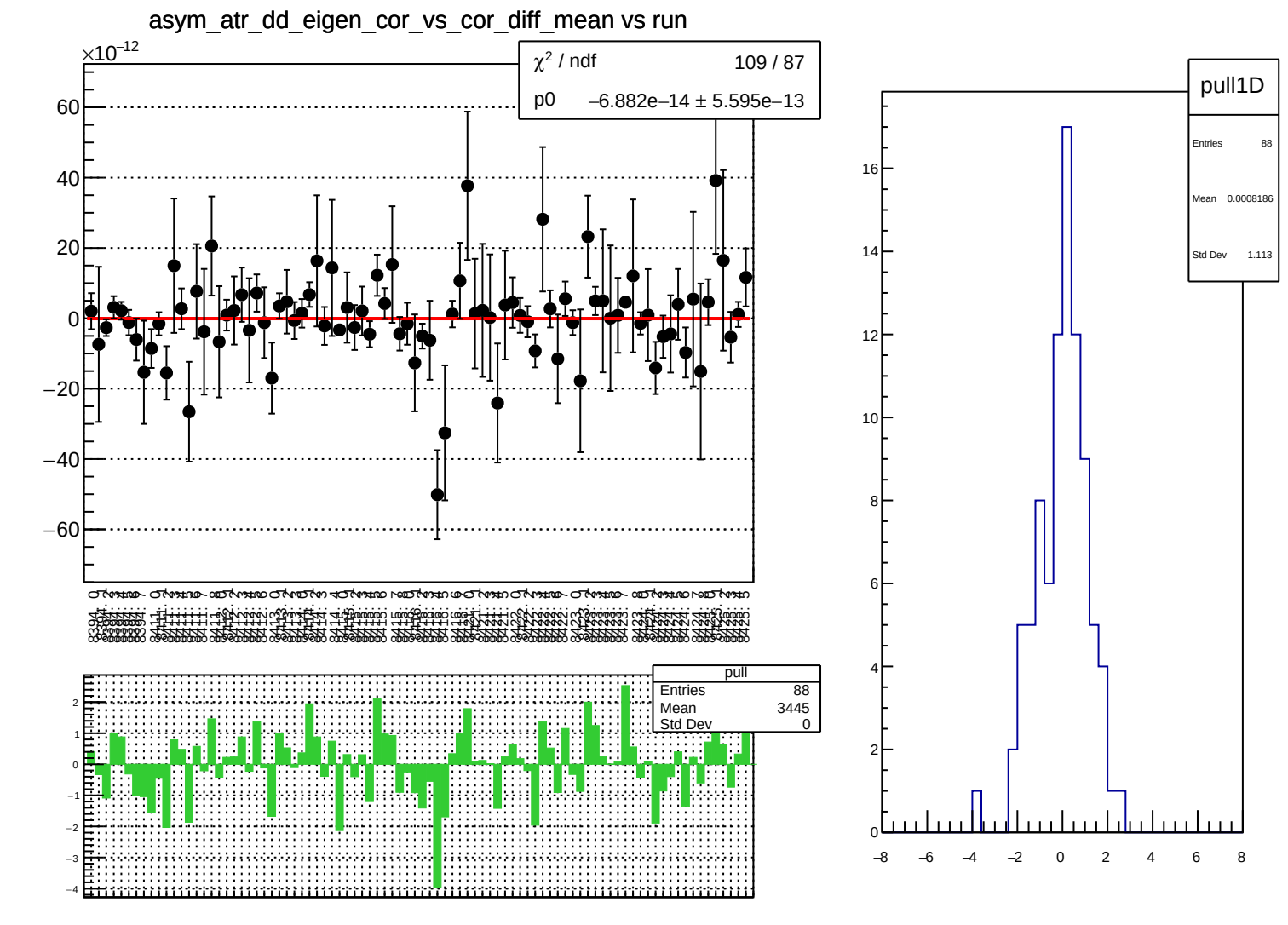

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.12e+04 / 87
p0 0.02343 ± 1.818e−05
0.03
0.028
0.026
0.024
0.022
0.02
0.018

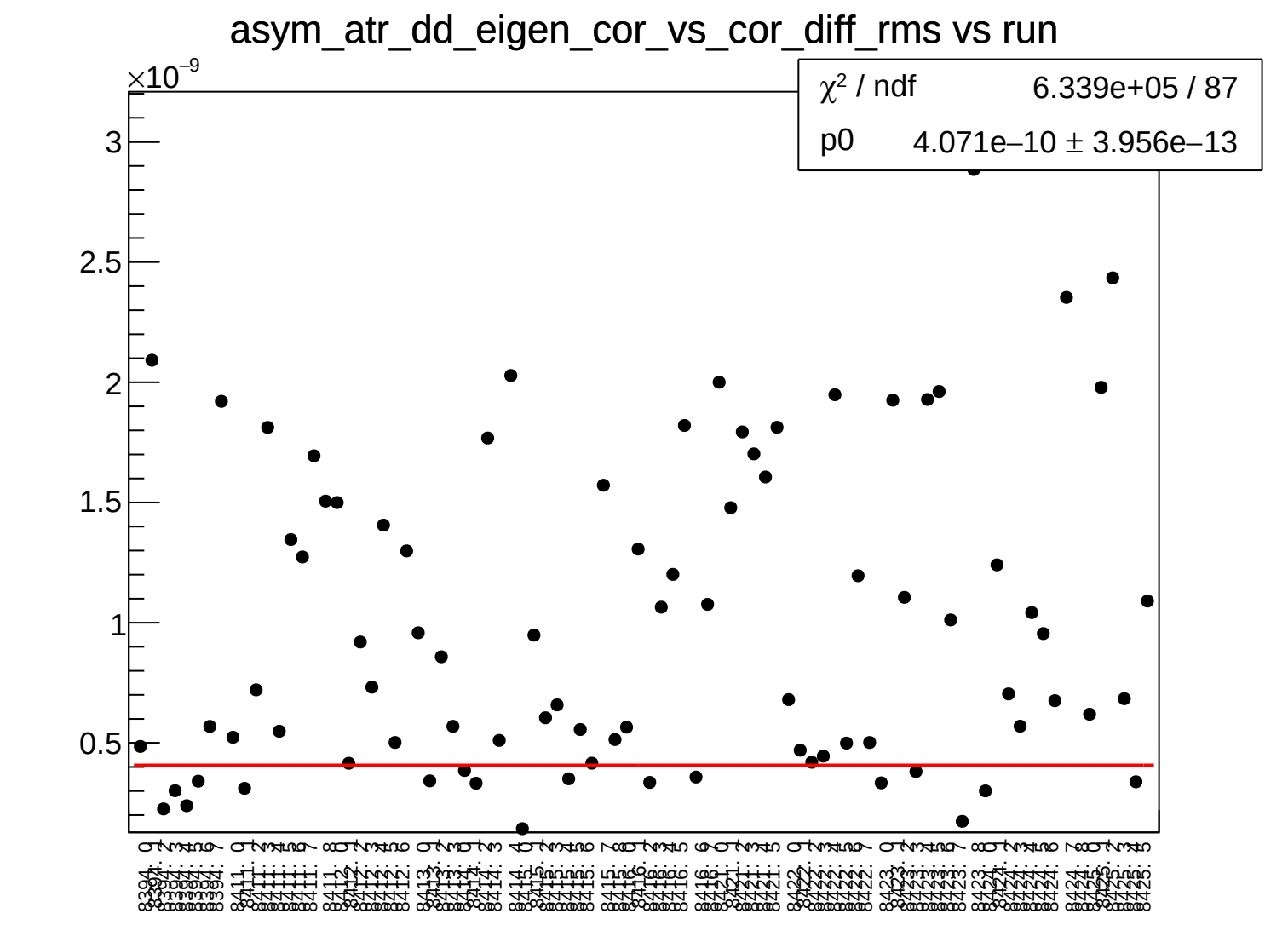

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.17 / 87
p0 0.1256 ± 0.152
pull
Entries 88
Mean −976.3
Std Dev 0
pull1D
Entries 88
Mean 0.007162
Std Dev 1.029

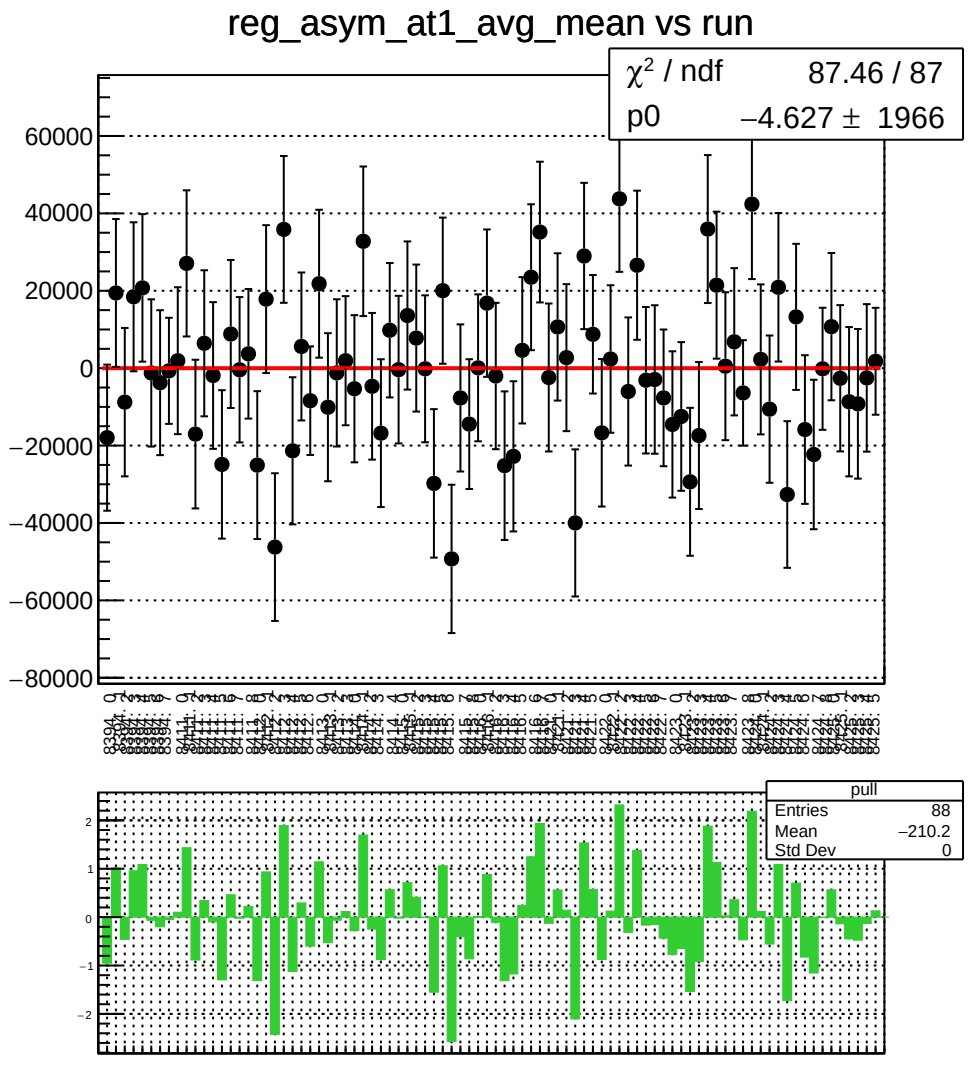

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.264e+04 / 87
p0 137.7 ± 0.1075
200
180
160
140
120
100

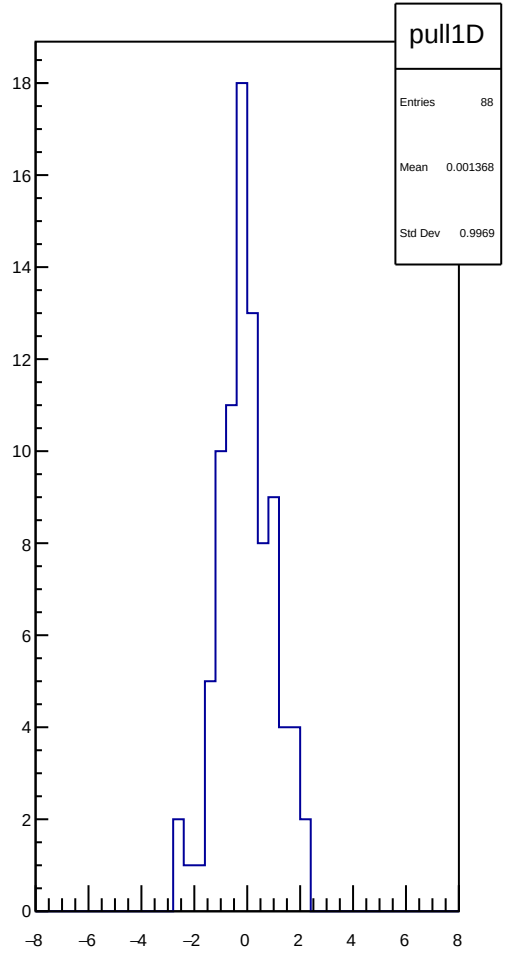

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.17 / 87
p0 0.1256 ± 0.152
pull
Entries 88
Mean −976.3
Std Dev 0
pull1D
Entries 88
Mean 0.007162
Std Dev 1.029

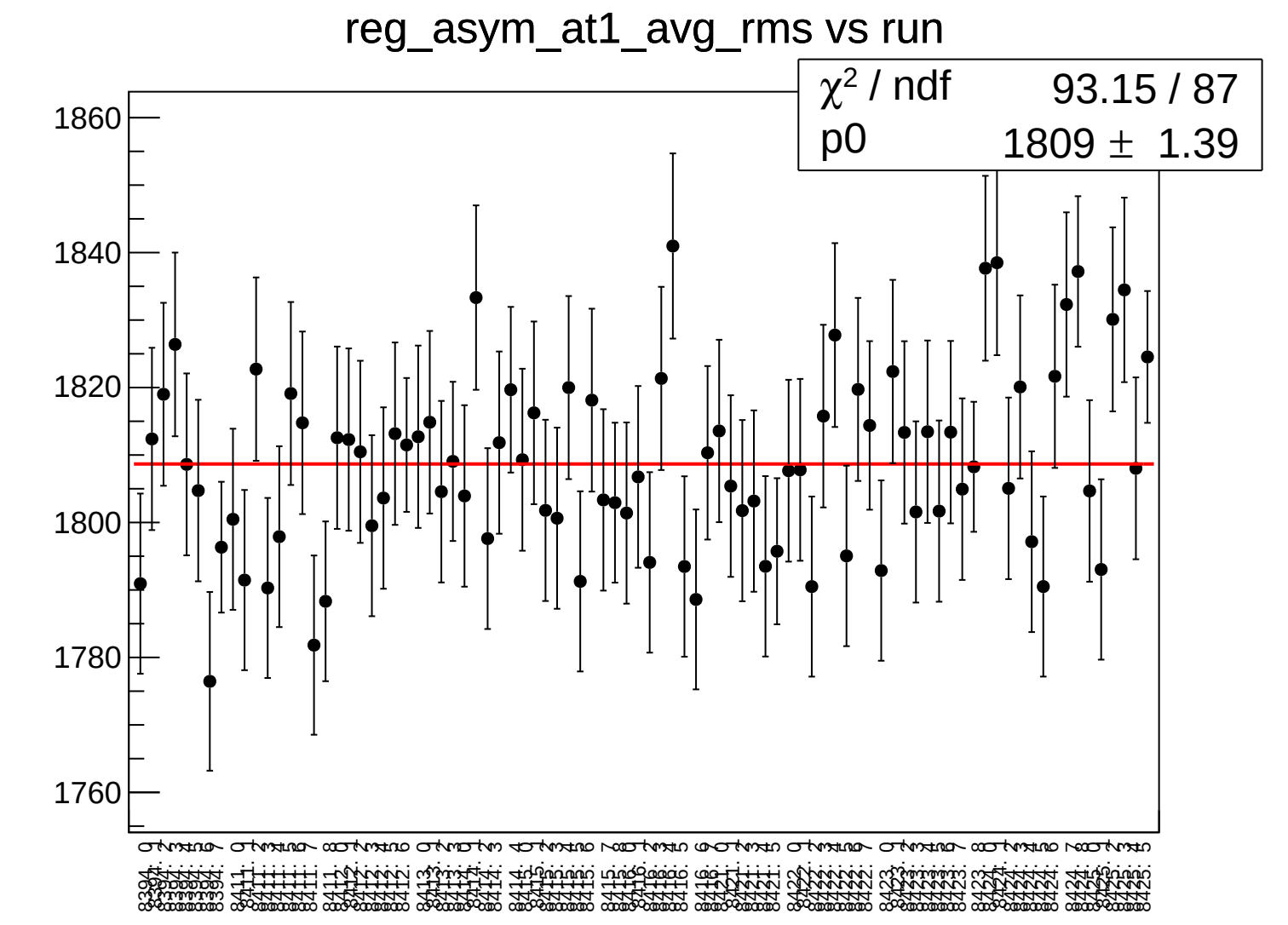

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.264e+04 / 87
p0 137.7 ± 0.1075
200
180
160
140
120
100

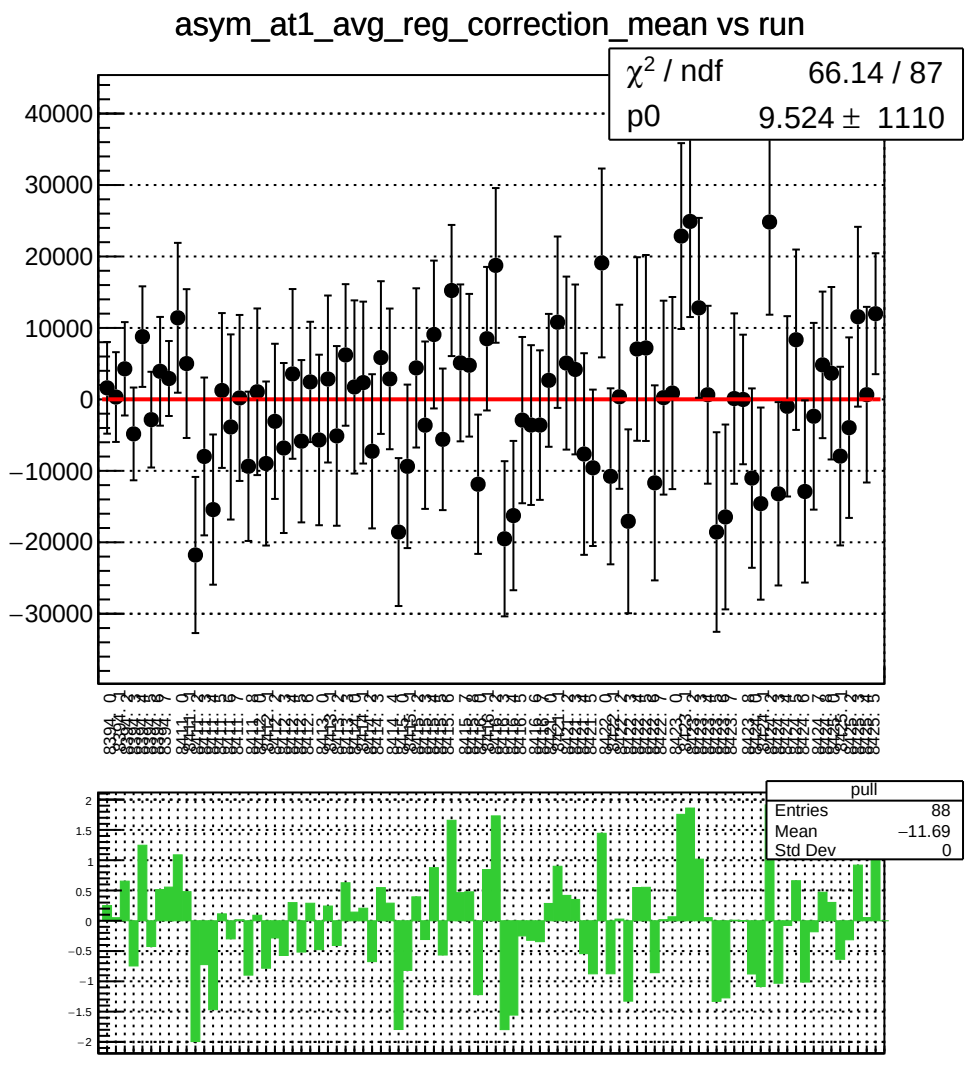

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 109 / 87
p0 −6.882e−14 ± 5.595e−13
pull
Entries 88
Mean 3445
Std Dev 0
pull1D
Entries 88
Mean 0.0008186
Std Dev 1.113

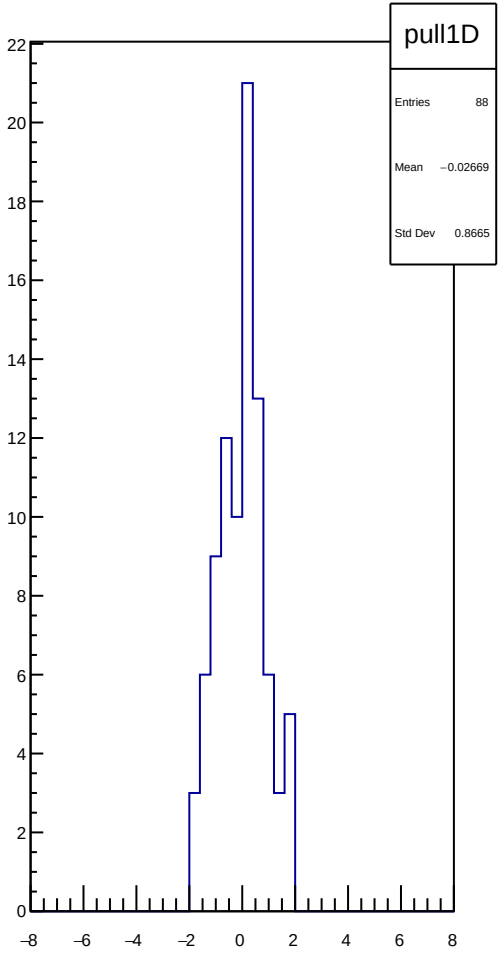

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.339e+05 / 87
p0 4.071e−10 ± 3.956e−13
3
2.5
2
1.5
1
0.5

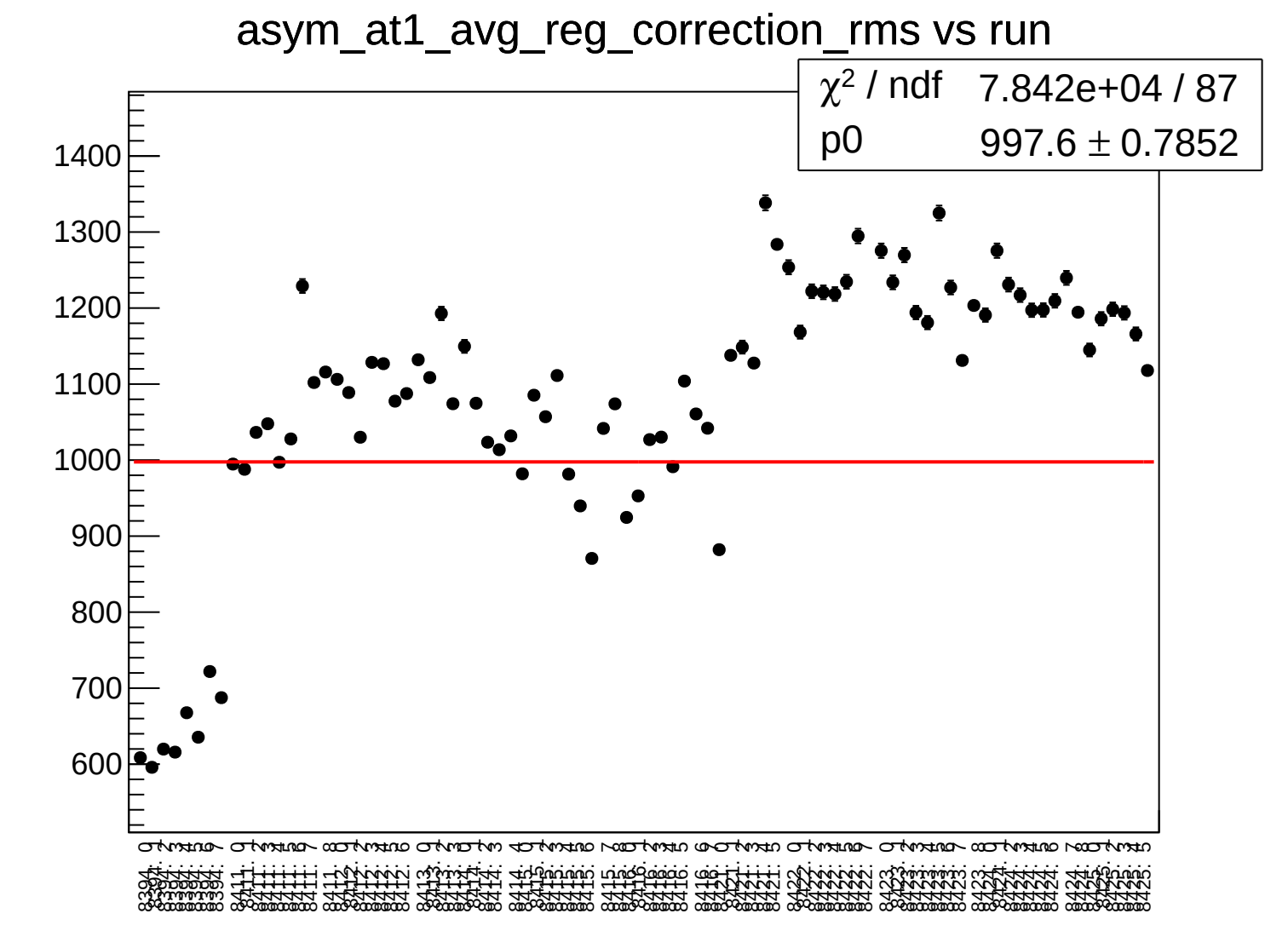

reg_asym_at1_avg_mean vs run
χ² / ndf 87.46 / 87
p0 −4.627 ± 1966
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −210.2
Std Dev 0
2
1
0
−1
−2

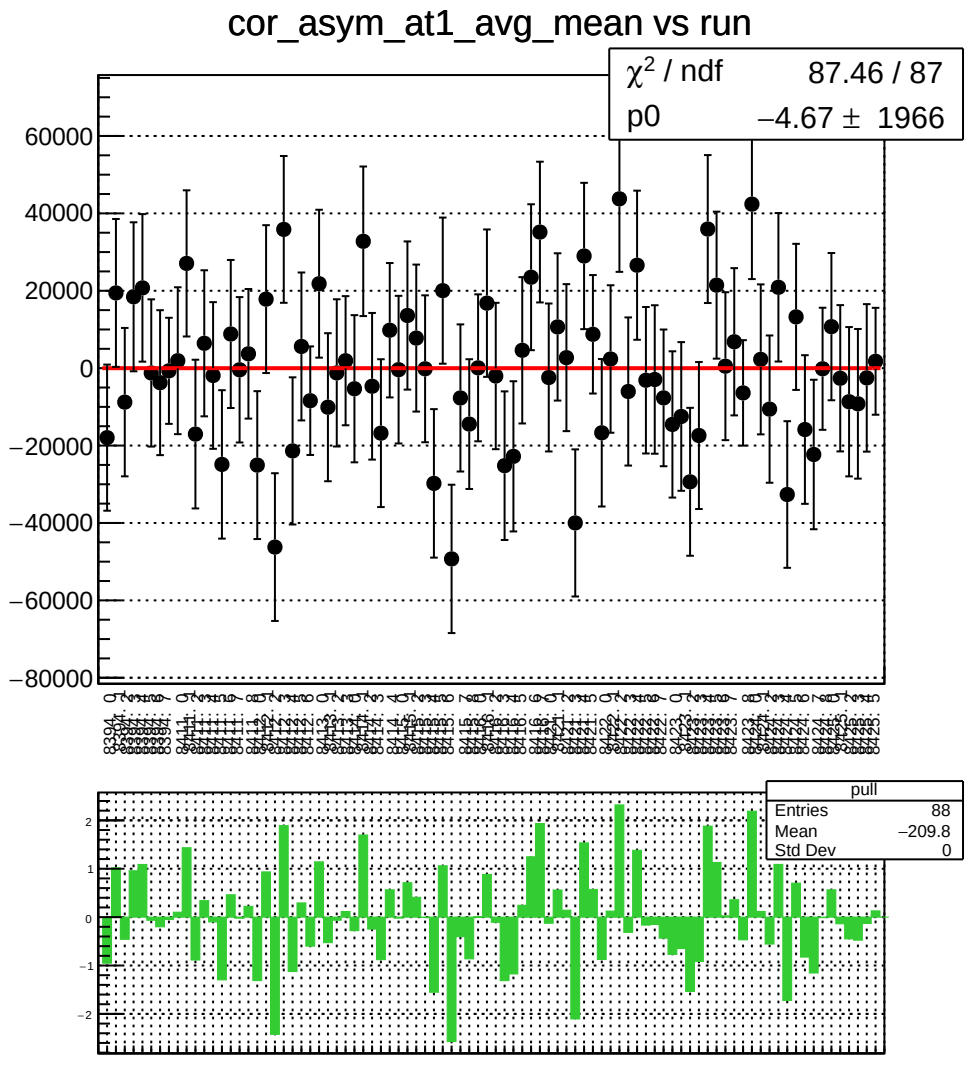

pull1D
Entries 88
Mean 0.001368
Std Dev 0.9969
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

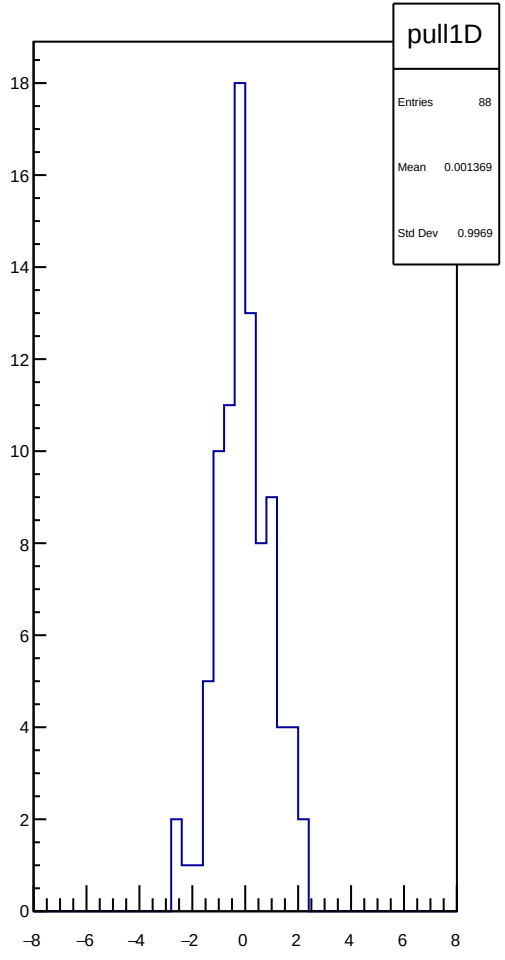

reg_asym_at1_avg_rms vs run
χ^2 / ndf 93.15 / 87
p0 1809 ± 1.39
1860
1840
1820
1800
1780
1760

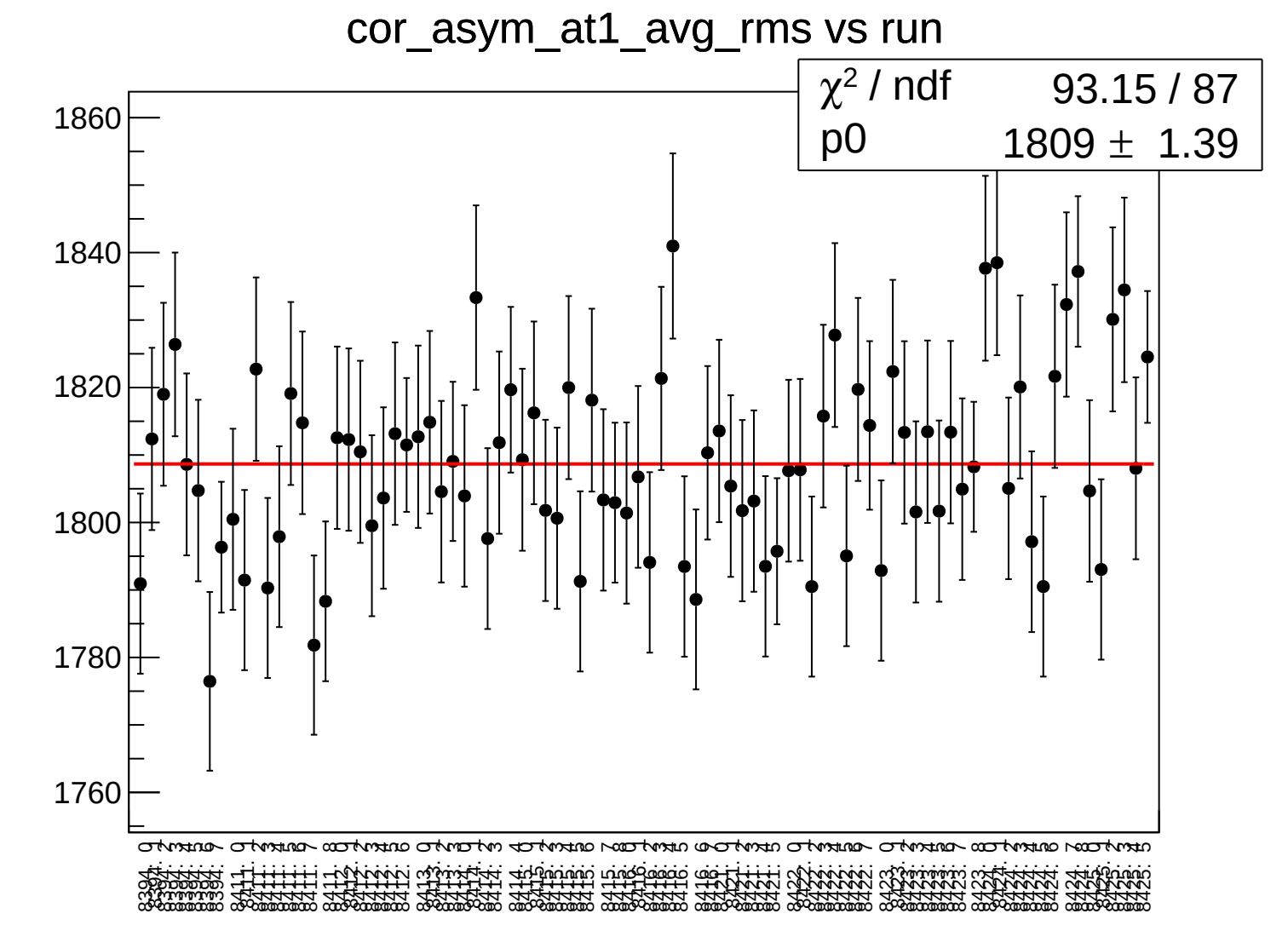

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 66.14 / 87
p0 9.524 ± 1110
pull
Entries 88
Mean −11.69
Std Dev 0

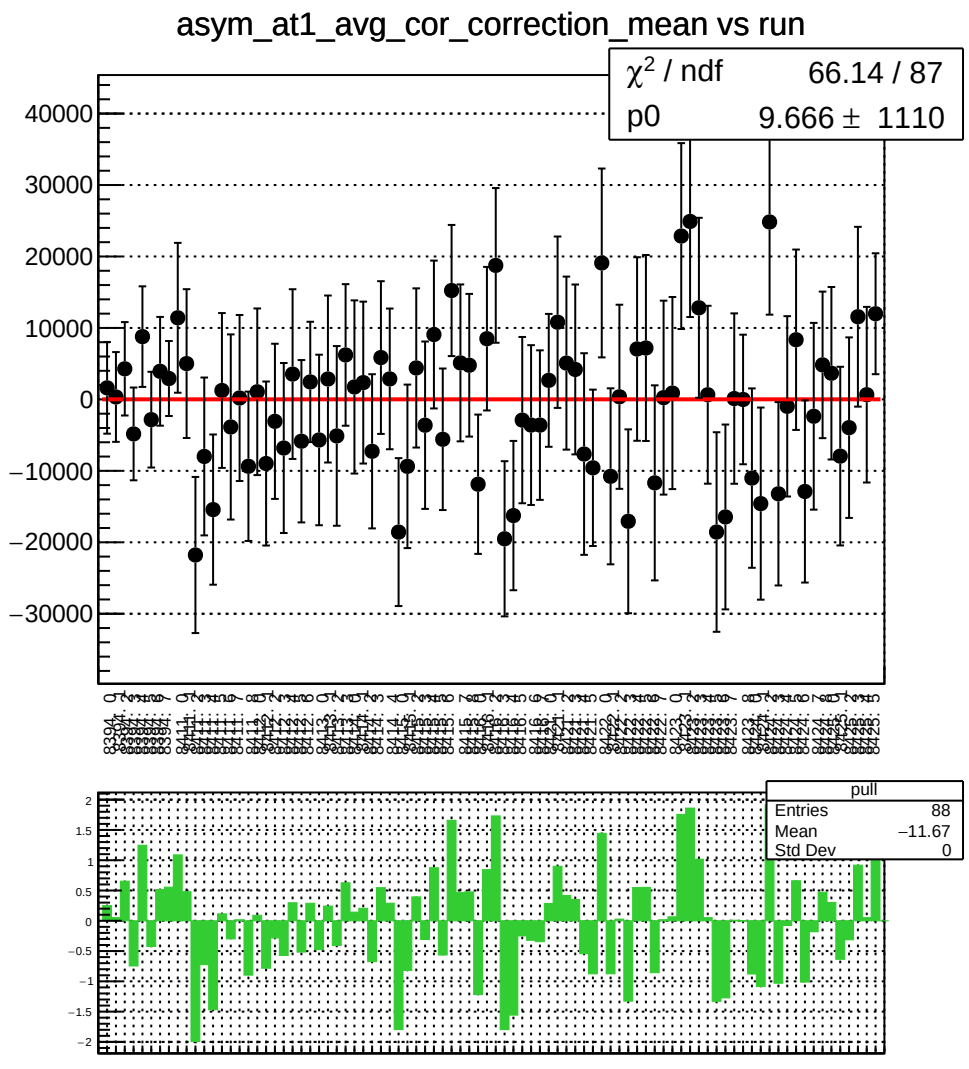

pull1D
Entries 88
Mean −0.02669
Std Dev 0.8665

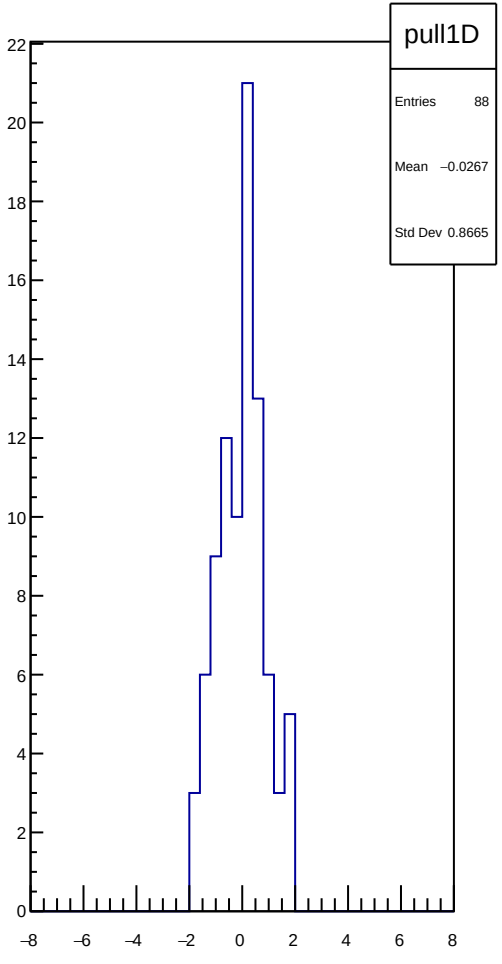

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 7.842e+04 / 87
p0 997.6 ± 0.7852
1400
1300
1200
1100
1000
900
800
700
600

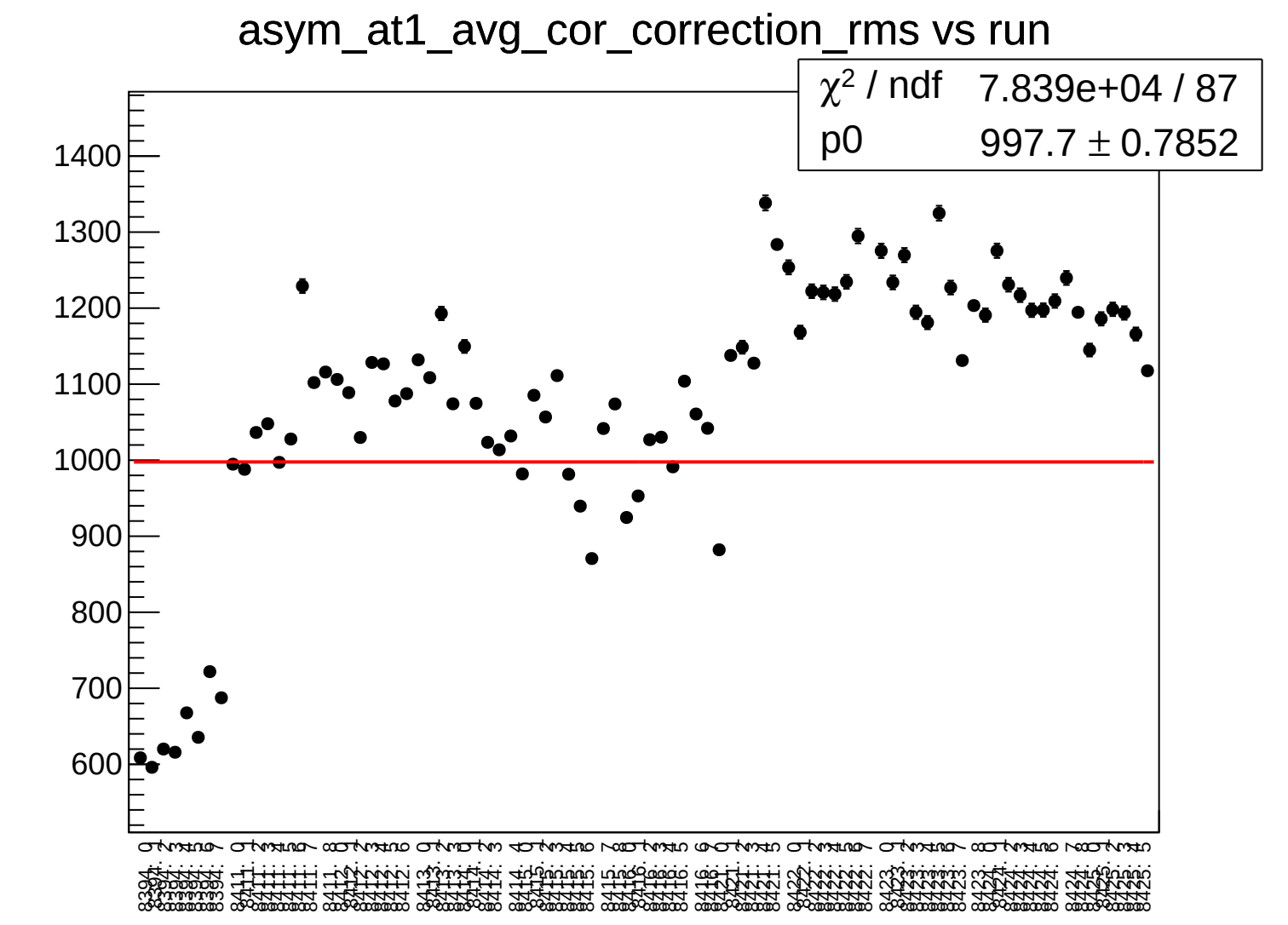

cor_asym_at1_avg_mean vs run
χ² / ndf 87.46 / 87
p0 −4.67 ± 1966
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −209.8
Std Dev 0
2
1
0
−1
−2

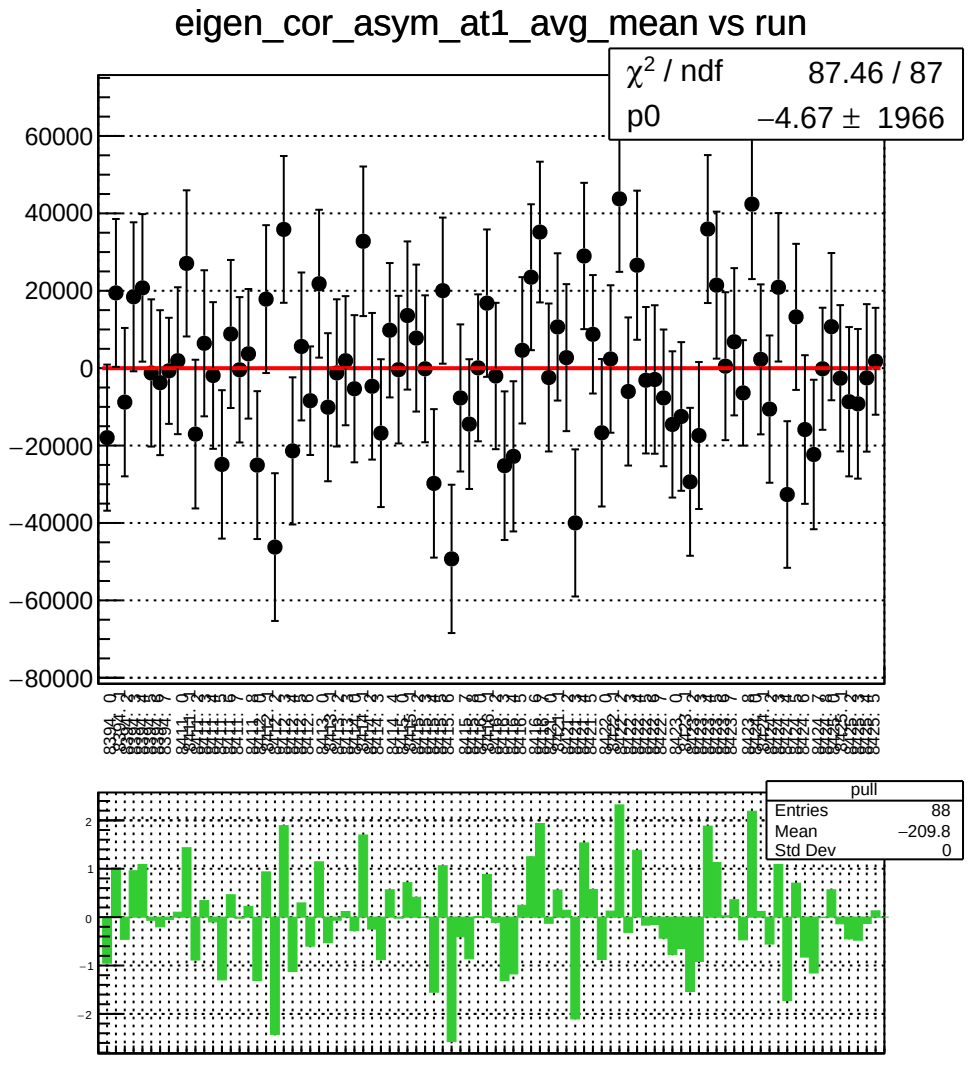

pull1D
Entries 88
Mean 0.001369
Std Dev 0.9969
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

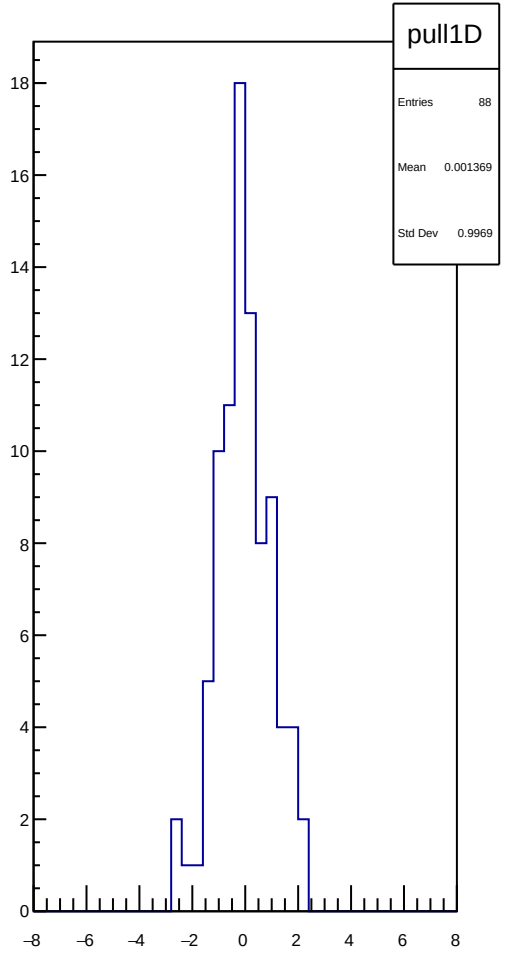

cor_asym_at1_avg_rms vs run
χ^2 / ndf 93.15 / 87
p0 1809 ± 1.39
1860
1840
1820
1800
1780
1760

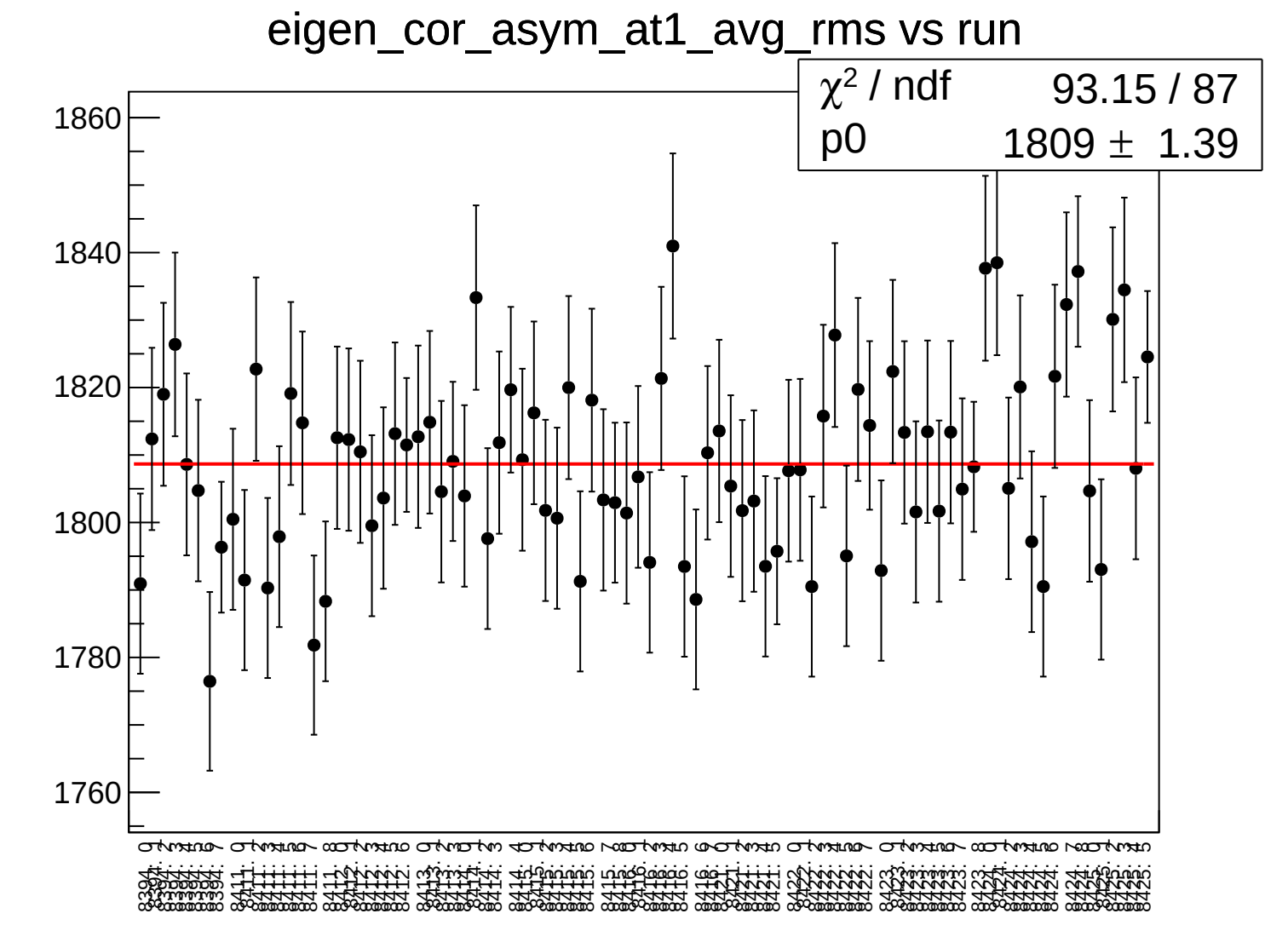

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 66.14 / 87
p0 9.666 ± 1110
pull
Entries 88
Mean −11.67
Std Dev 0

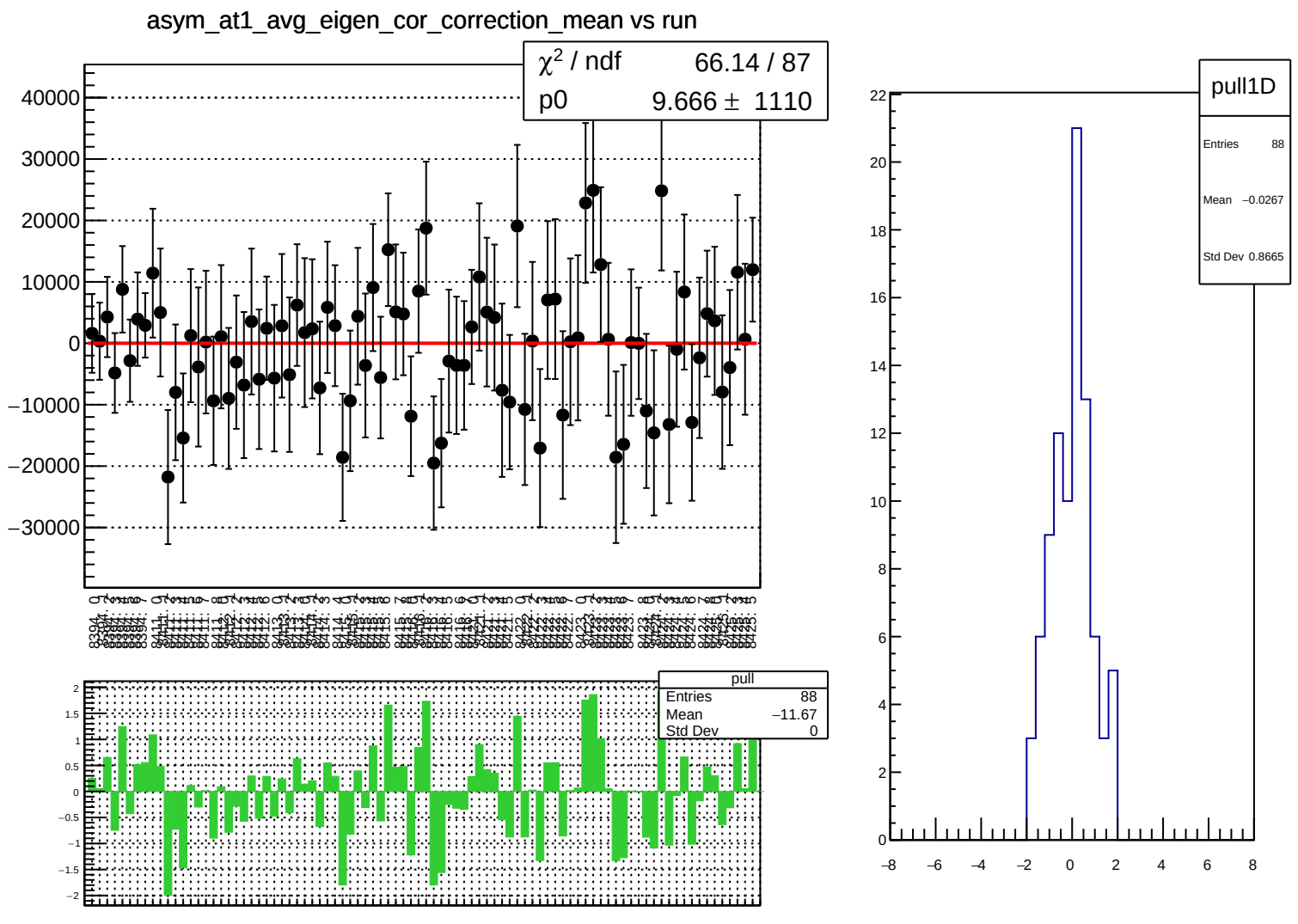

pull1D
Entries 88
Mean −0.0267
Std Dev 0.8665

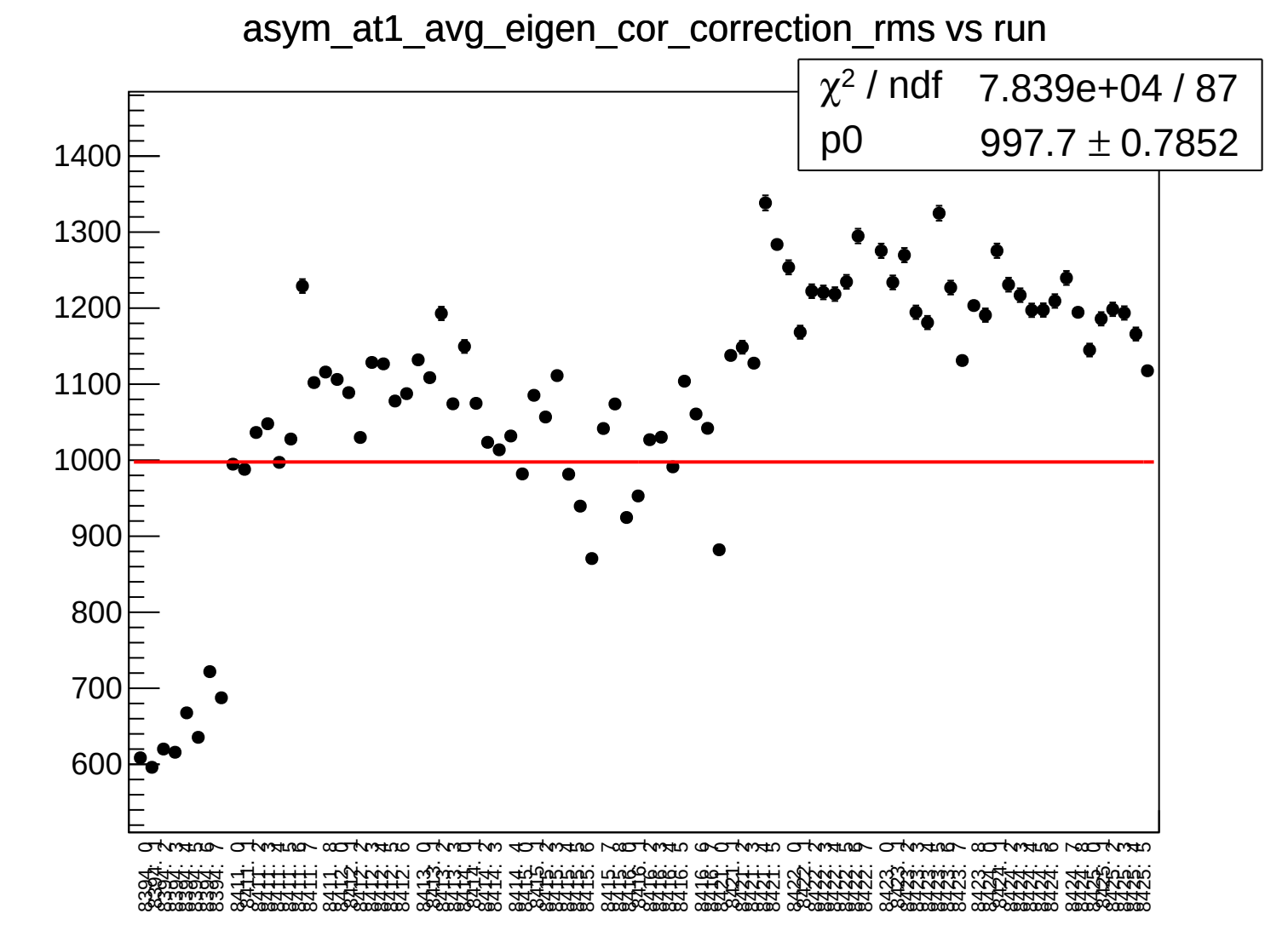

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 7.839e+04 / 87
p0 997.7 ± 0.7852
1400
1300
1200
1100
1000
900
800
700
600

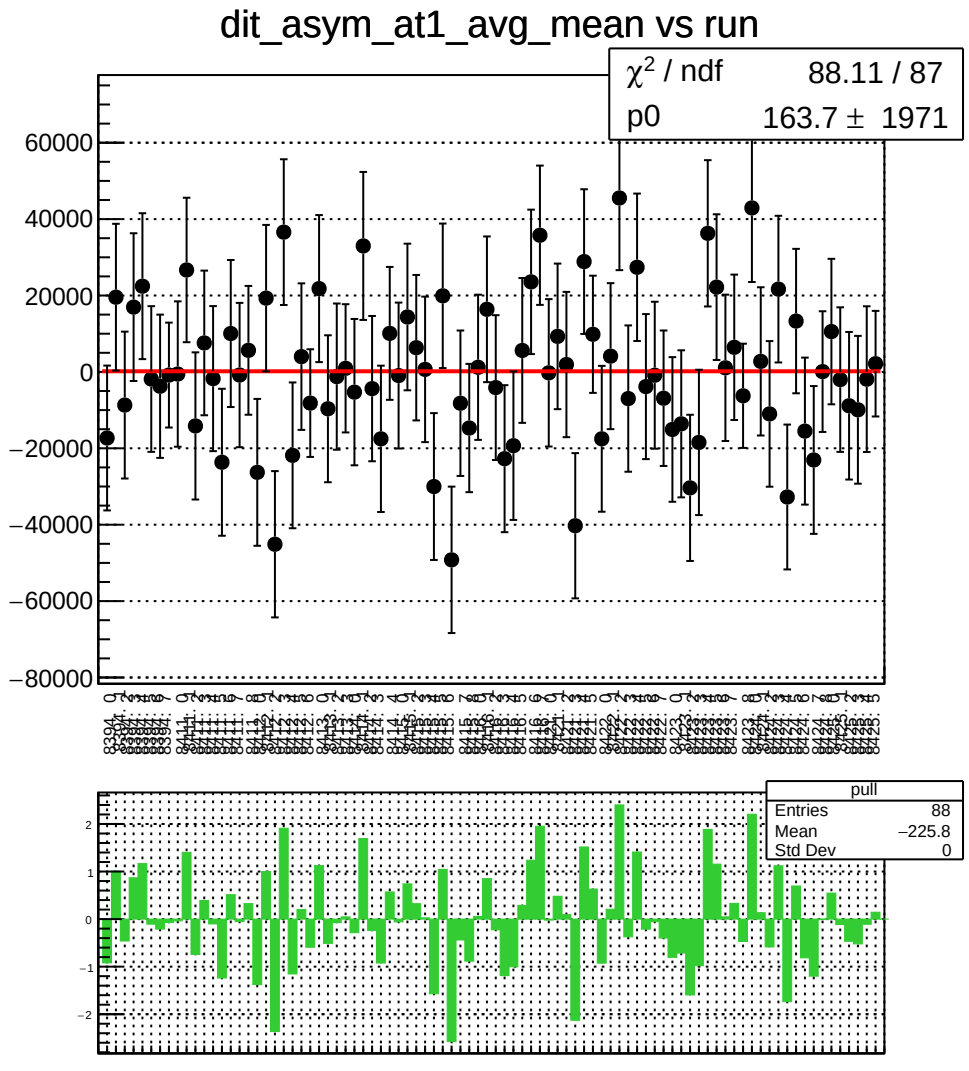

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 87.46 / 87
p0 −4.67 ± 1966
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −209.8
Std Dev 0
2
1
0
−1
−2

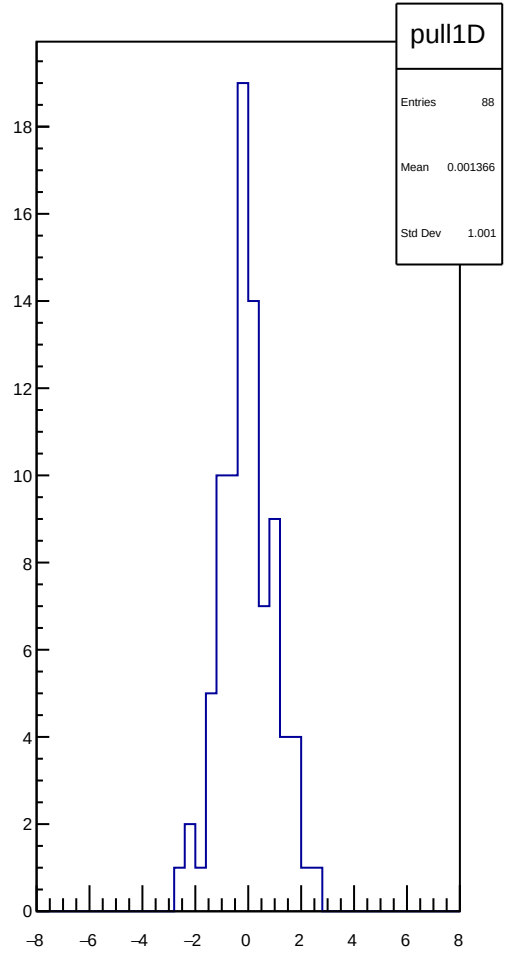

pull1D
Entries 88
Mean 0.001369
Std Dev 0.9969
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

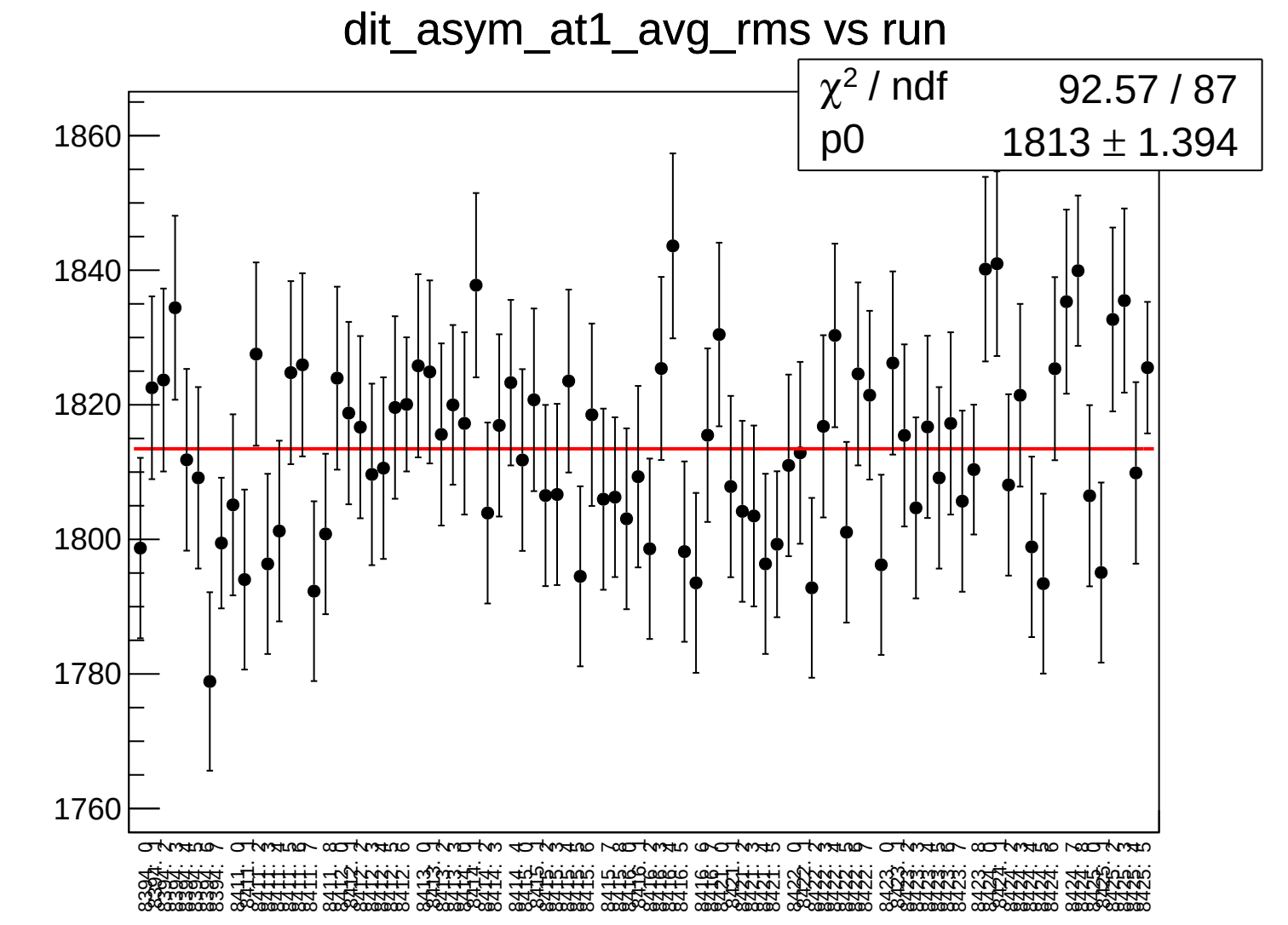

eigen_cor_asym_at1_avg_rms vs run
χ^2 / ndf 93.15 / 87
p0 1809 ± 1.39
1860
1840
1820
1800
1780
1760

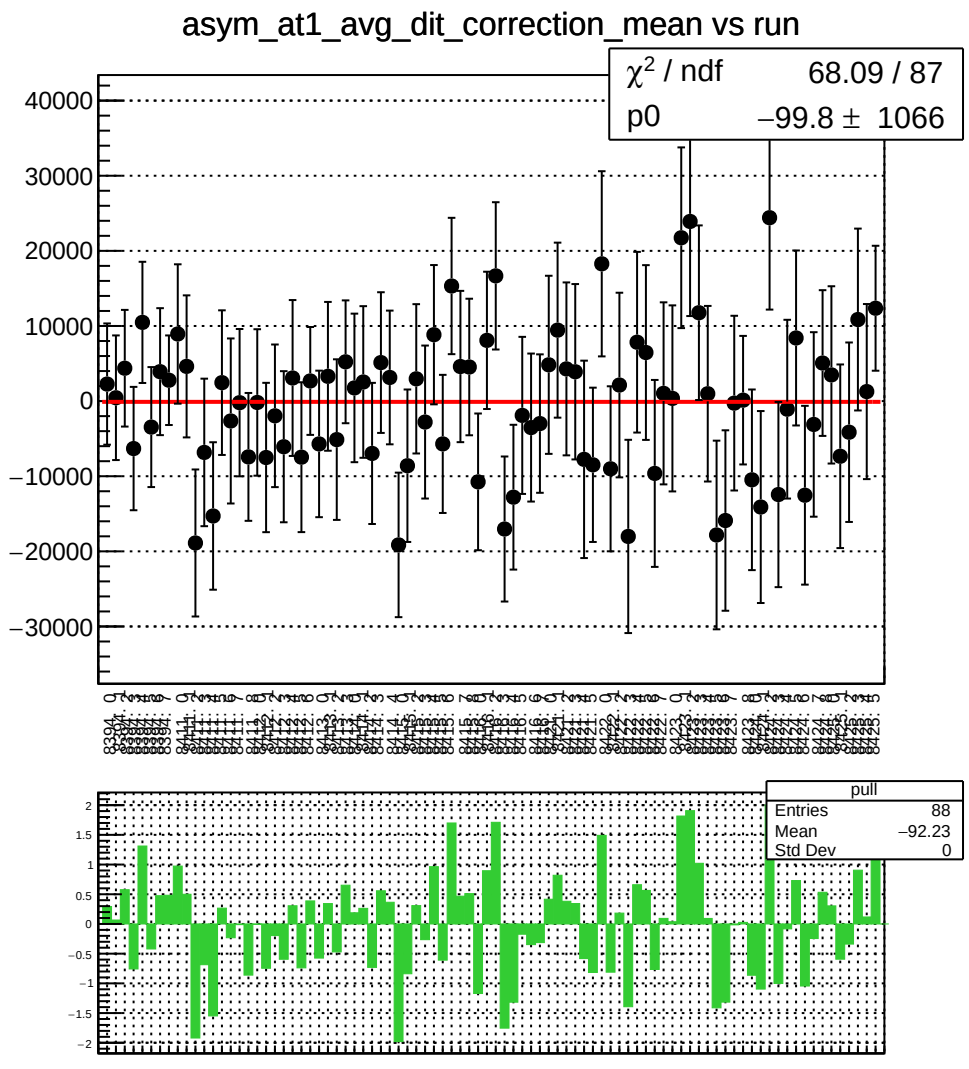

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 66.14 / 87
p0 9.666 ± 1110
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −11.67
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.0267
Std Dev 0.8665
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

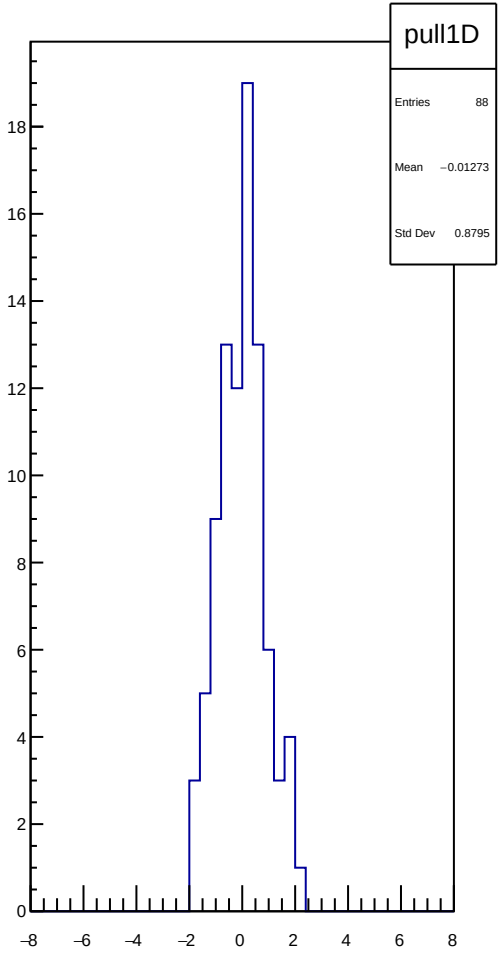

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 7.839e+04 / 87
p0 997.7 ± 0.7852
1400
1300
1200
1100
1000
900
800
700
600

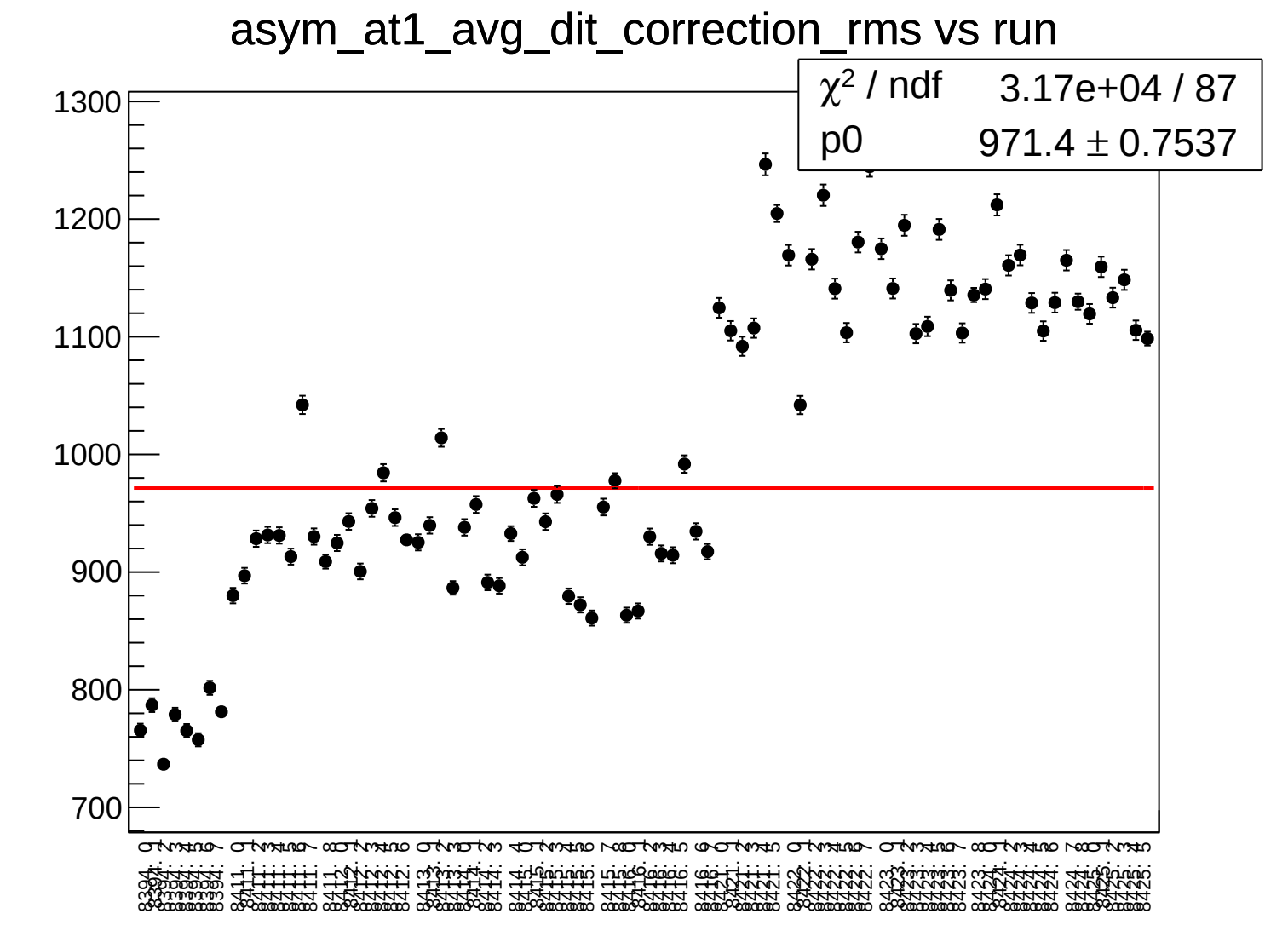

dit_asym_at1_avg_mean vs run
χ² / ndf 88.11 / 87
p0 163.7 ± 1971
pull
Entries 88
Mean −225.8
Std Dev 0

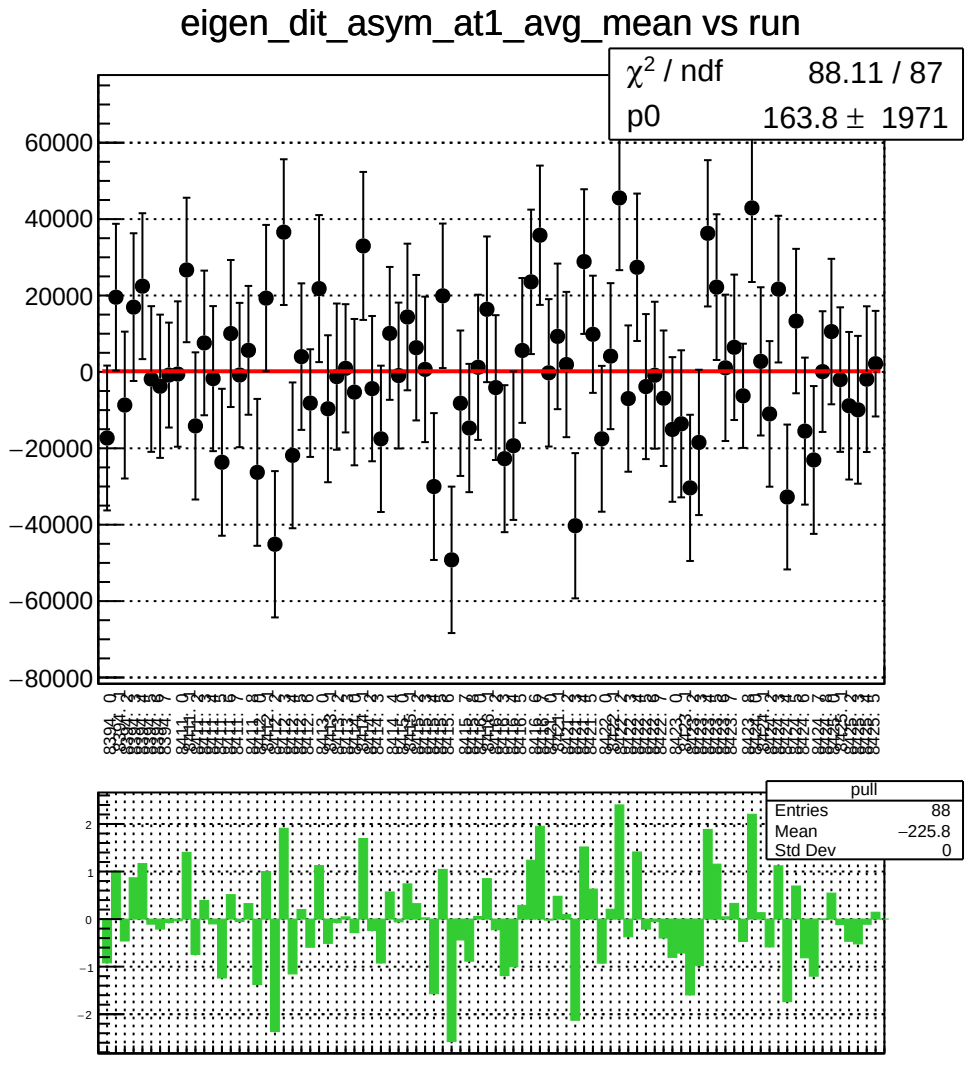

pull1D
Entries 88
Mean 0.001366
Std Dev 1.001

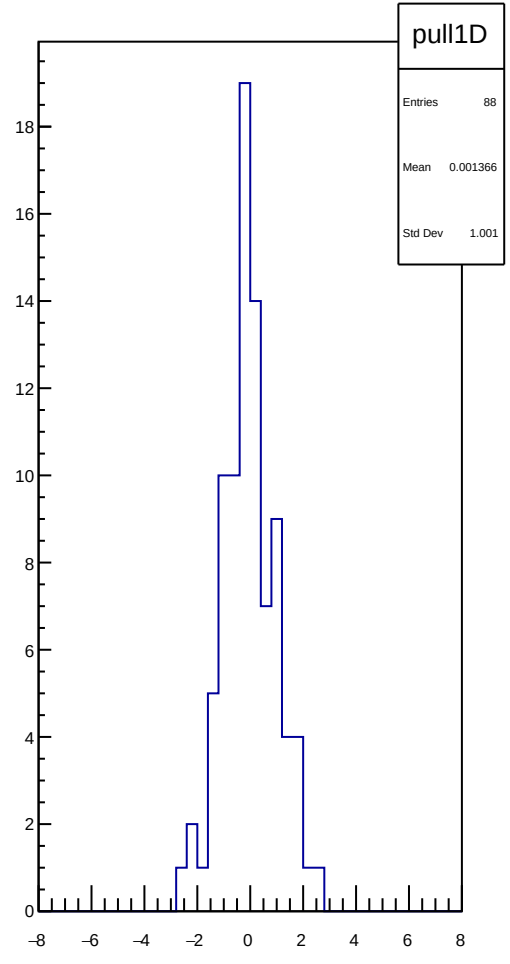

dit_asym_at1_avg_rms vs run
χ^2 / ndf 92.57 / 87
p0 1813 ± 1.394
1860
1840
1820
1800
1780
1760

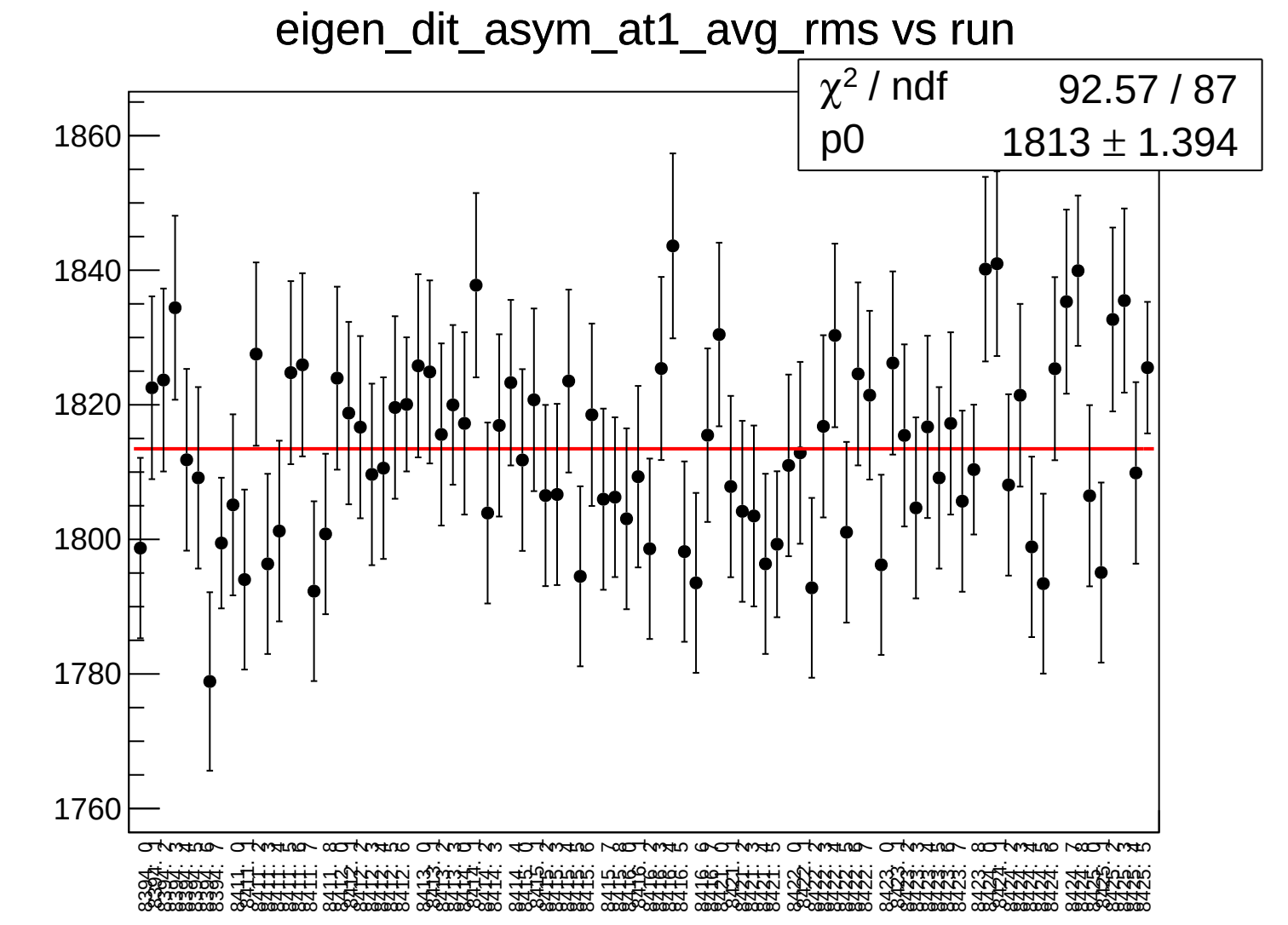

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 68.09 / 87
p0 −99.8 ± 1066
pull
Entries 88
Mean −92.23
Std Dev 0

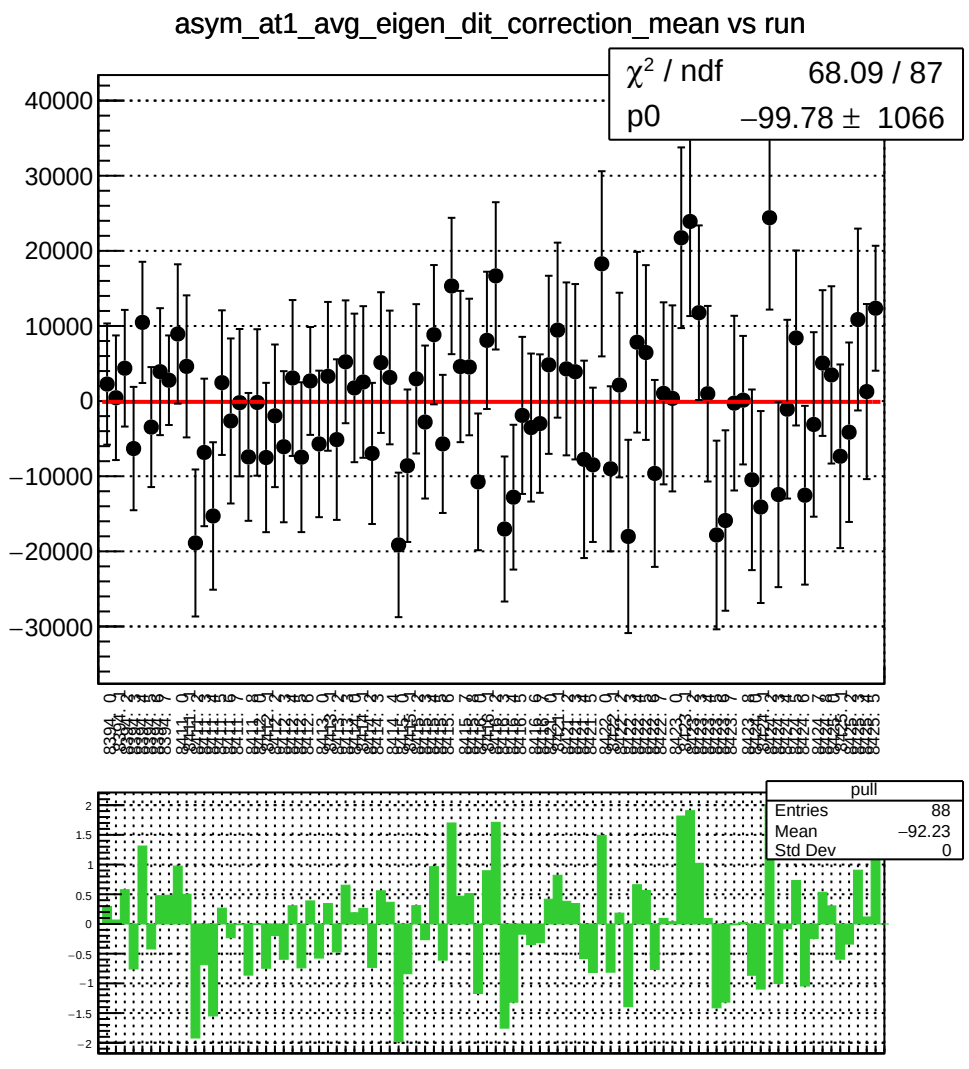

pull1D
Entries 88
Mean −0.01273
Std Dev 0.8795

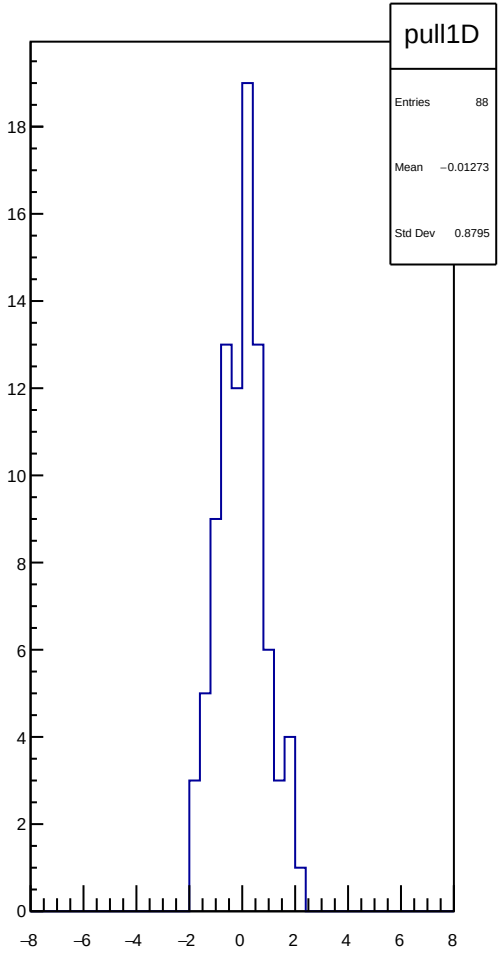

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 3.17e+04 / 87
p0 971.4 ± 0.7537
1300
1200
1100
1000
900
800
700

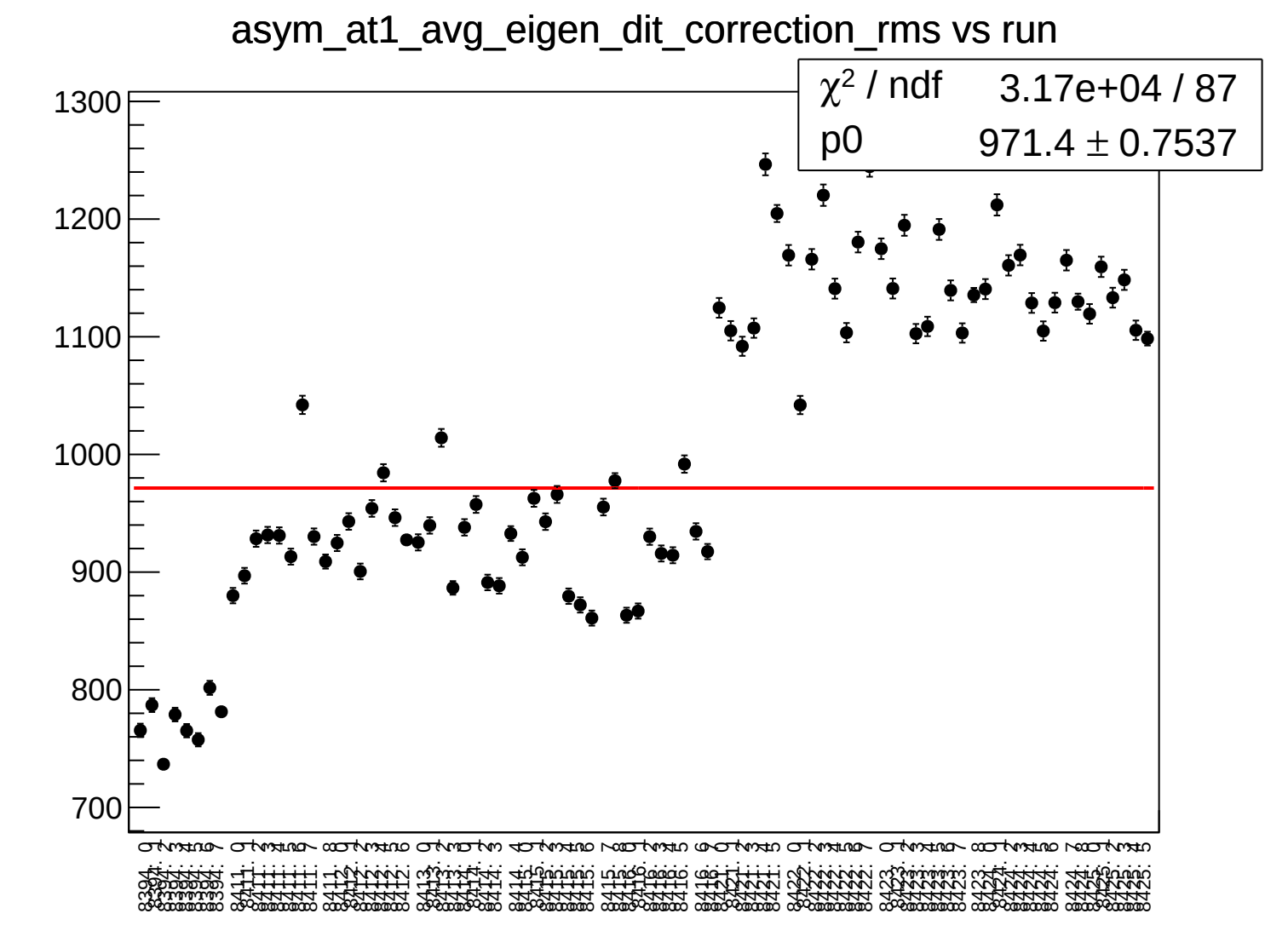

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 88.11 / 87
p0 163.8 ± 1971
pull
Entries 88
Mean −225.8
Std Dev 0

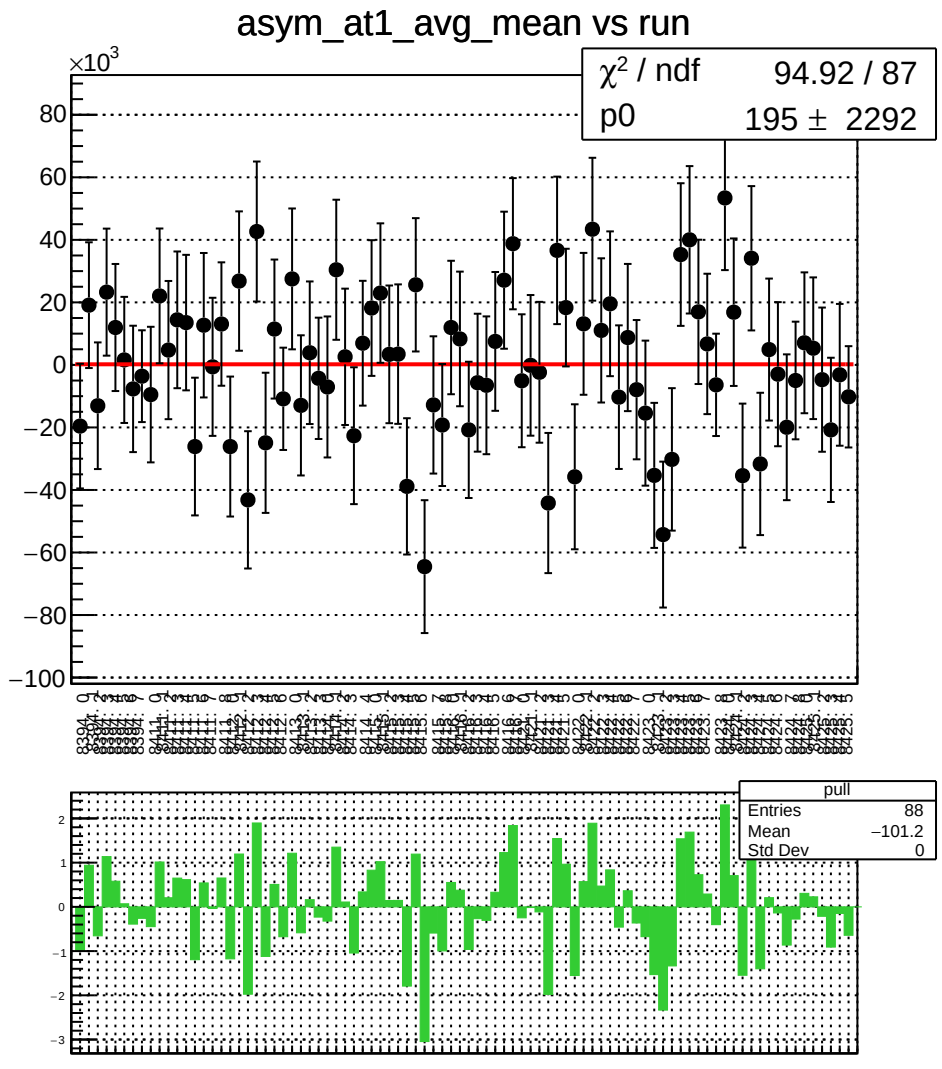

pull1D
Entries 88
Mean 0.001366
Std Dev 1.001

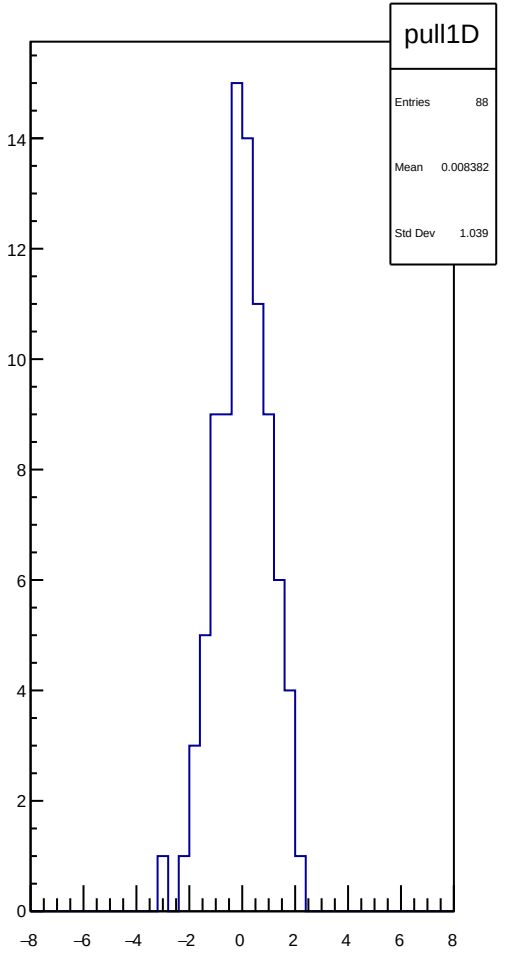

eigen_dit_asym_at1_avg_rms vs run
χ^2 / ndf 92.57 / 87
p0 1813 ± 1.394
1860
1840
1820
1800
1780
1760

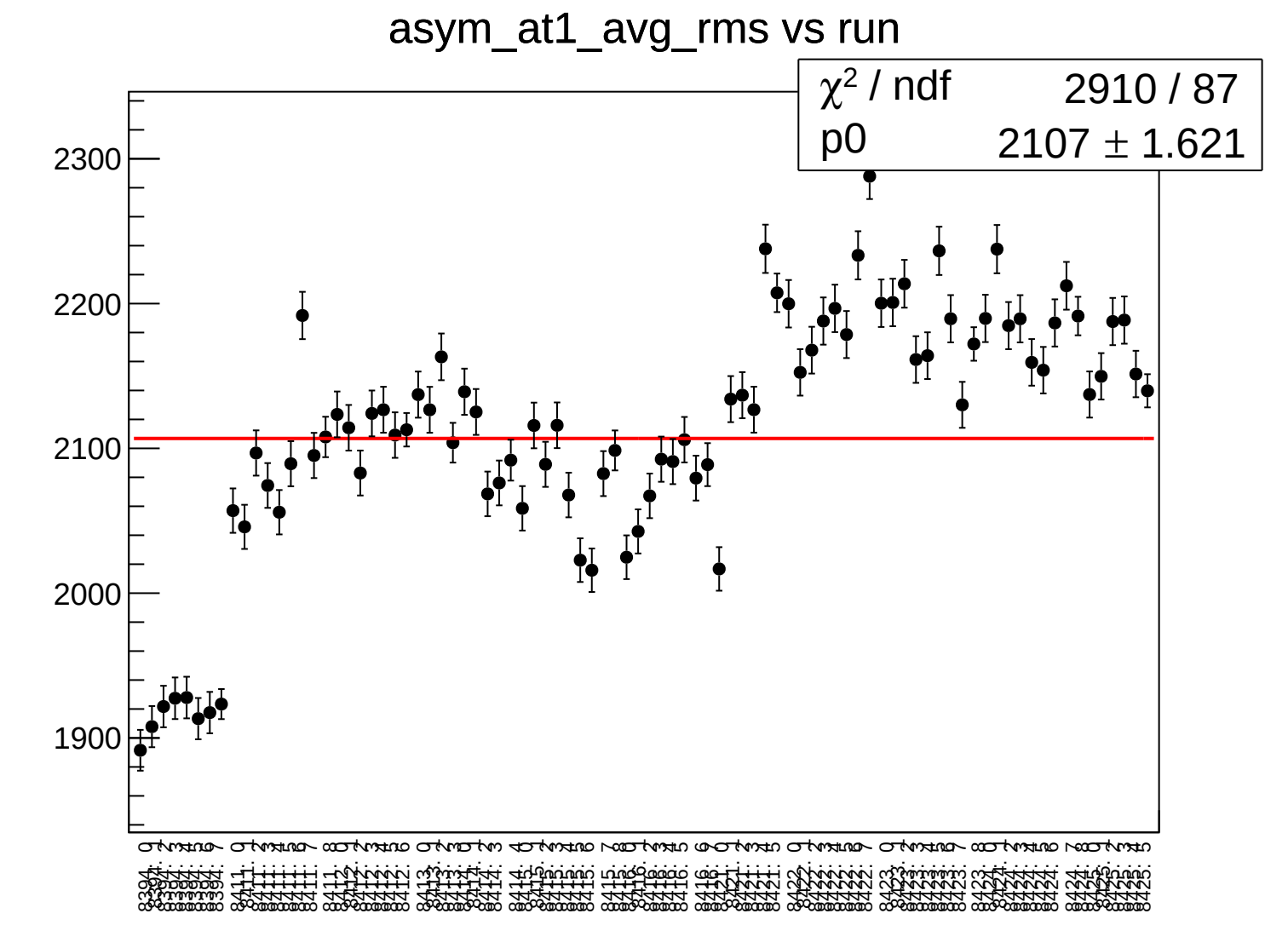

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 68.09 / 87
p0 −99.78 ± 1066
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −92.23
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

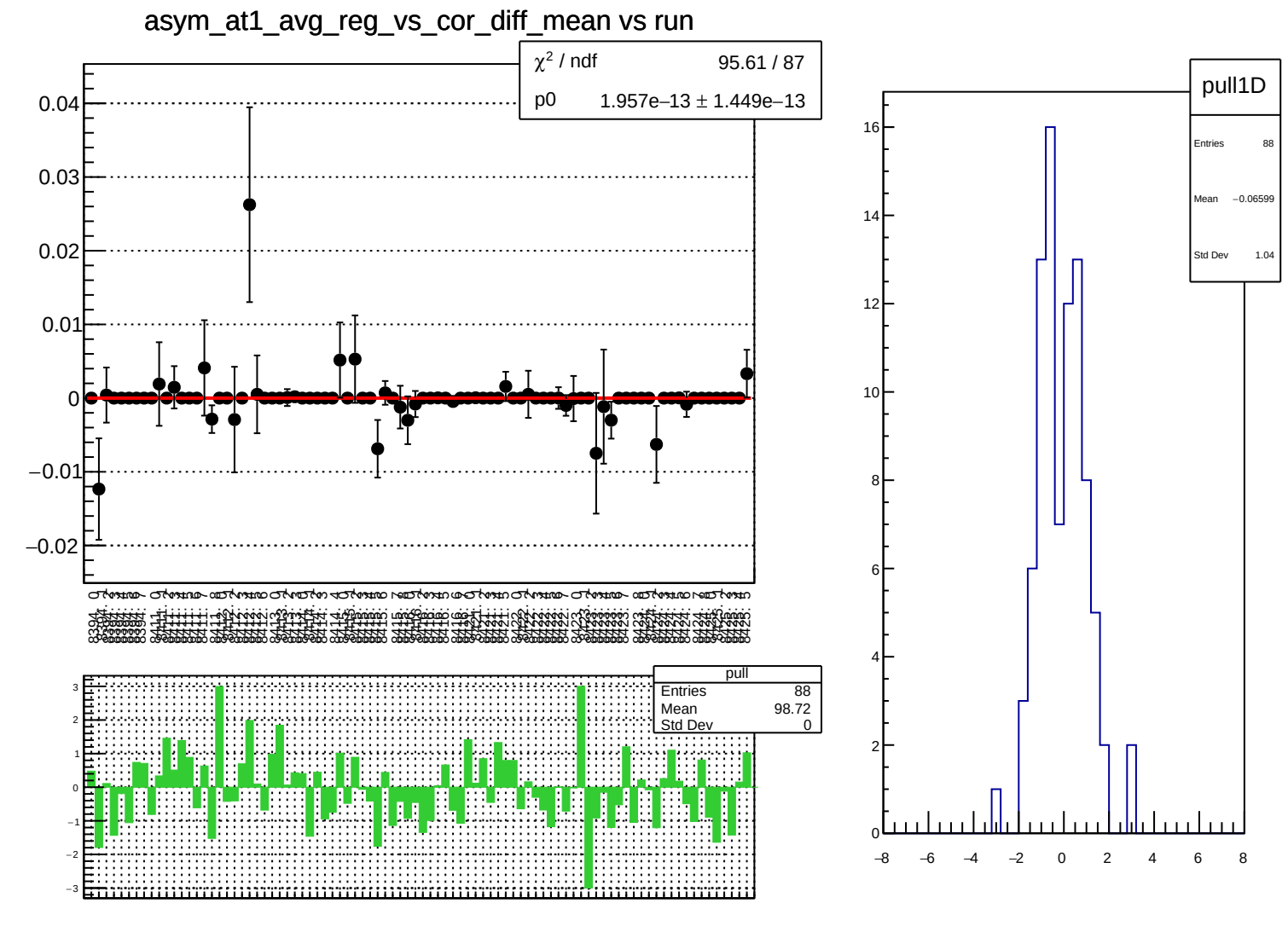

pull1D
Entries 88
Mean −0.01273
Std Dev 0.8795
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

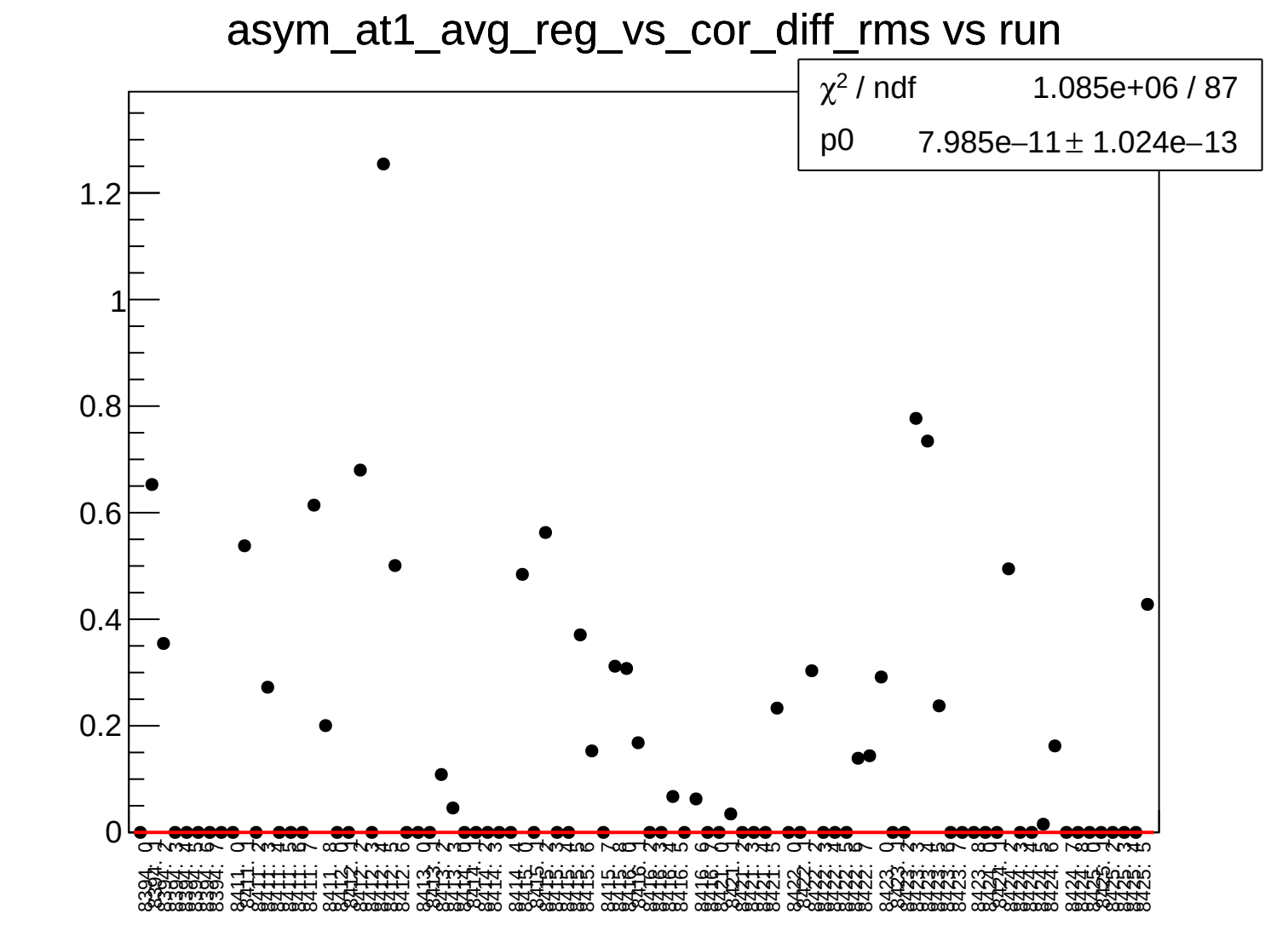

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.17e+04 / 87
p0 971.4 ± 0.7537
1300
1200
1100
1000
900
800
700

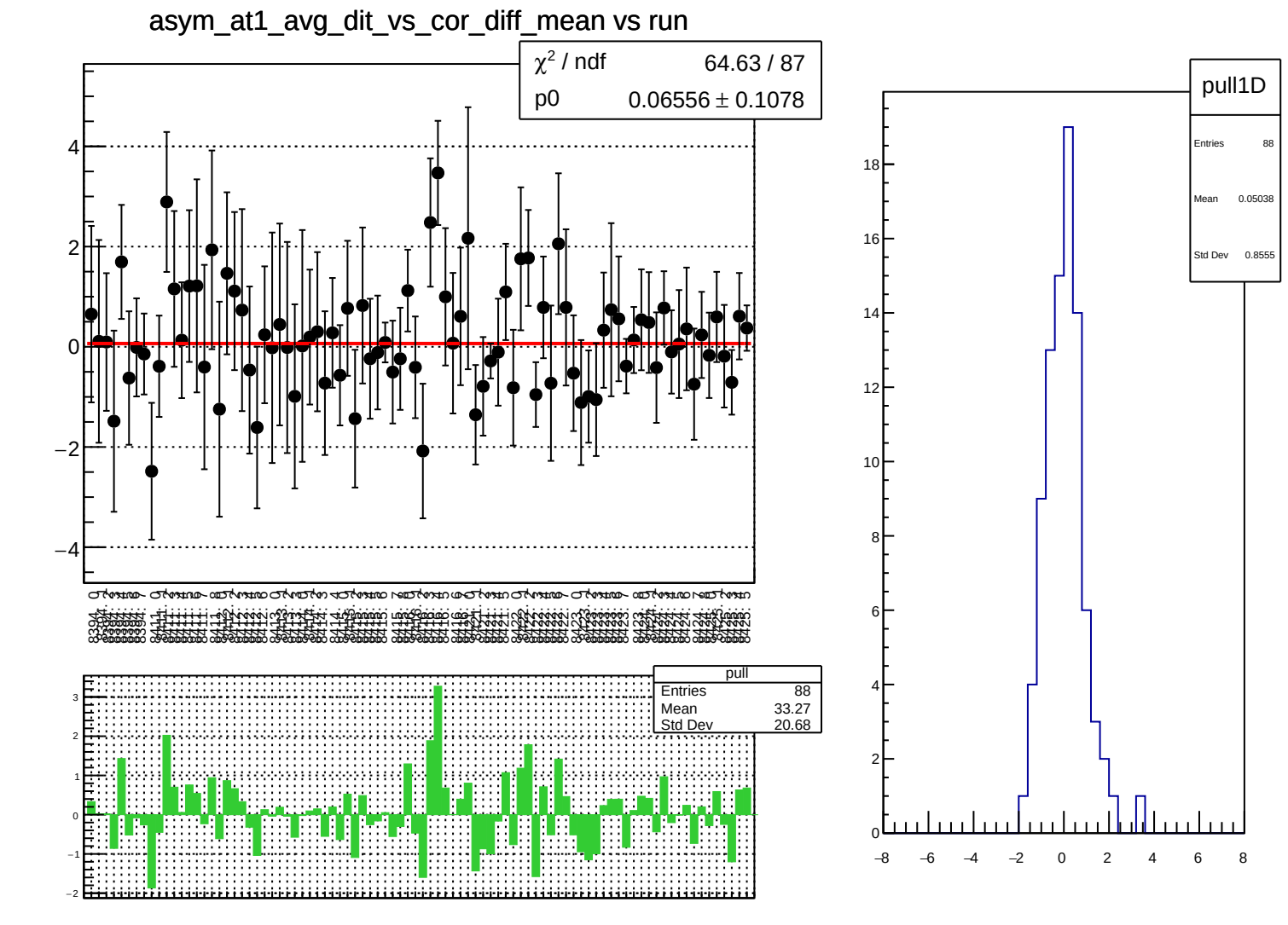

asym_at1_avg_mean vs run
×10^3
χ² / ndf 94.92 / 87
p0 195 ± 2292
pull
Entries 88
Mean −101.2
Std Dev 0

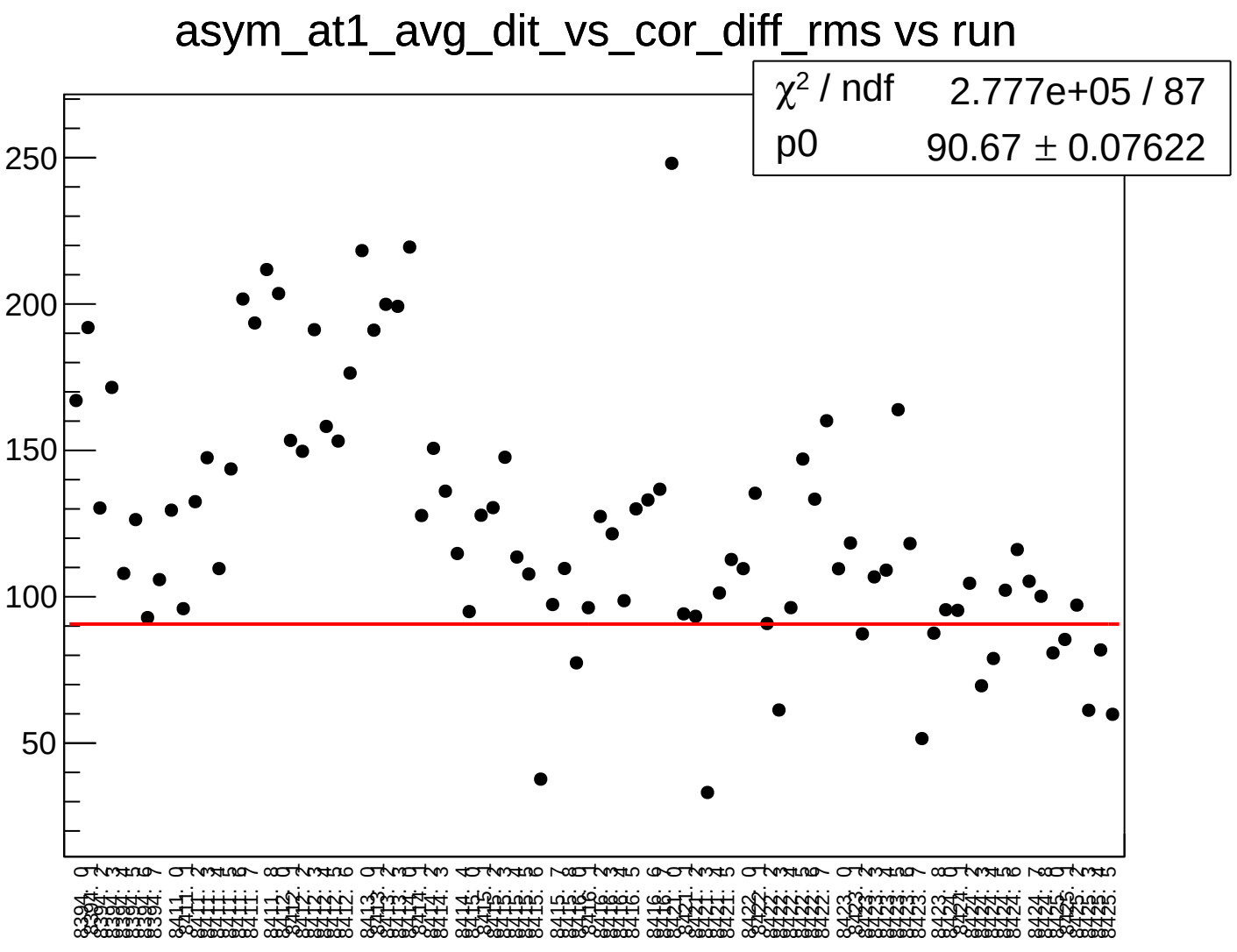

pull1D
Entries 88
Mean 0.008382
Std Dev 1.039

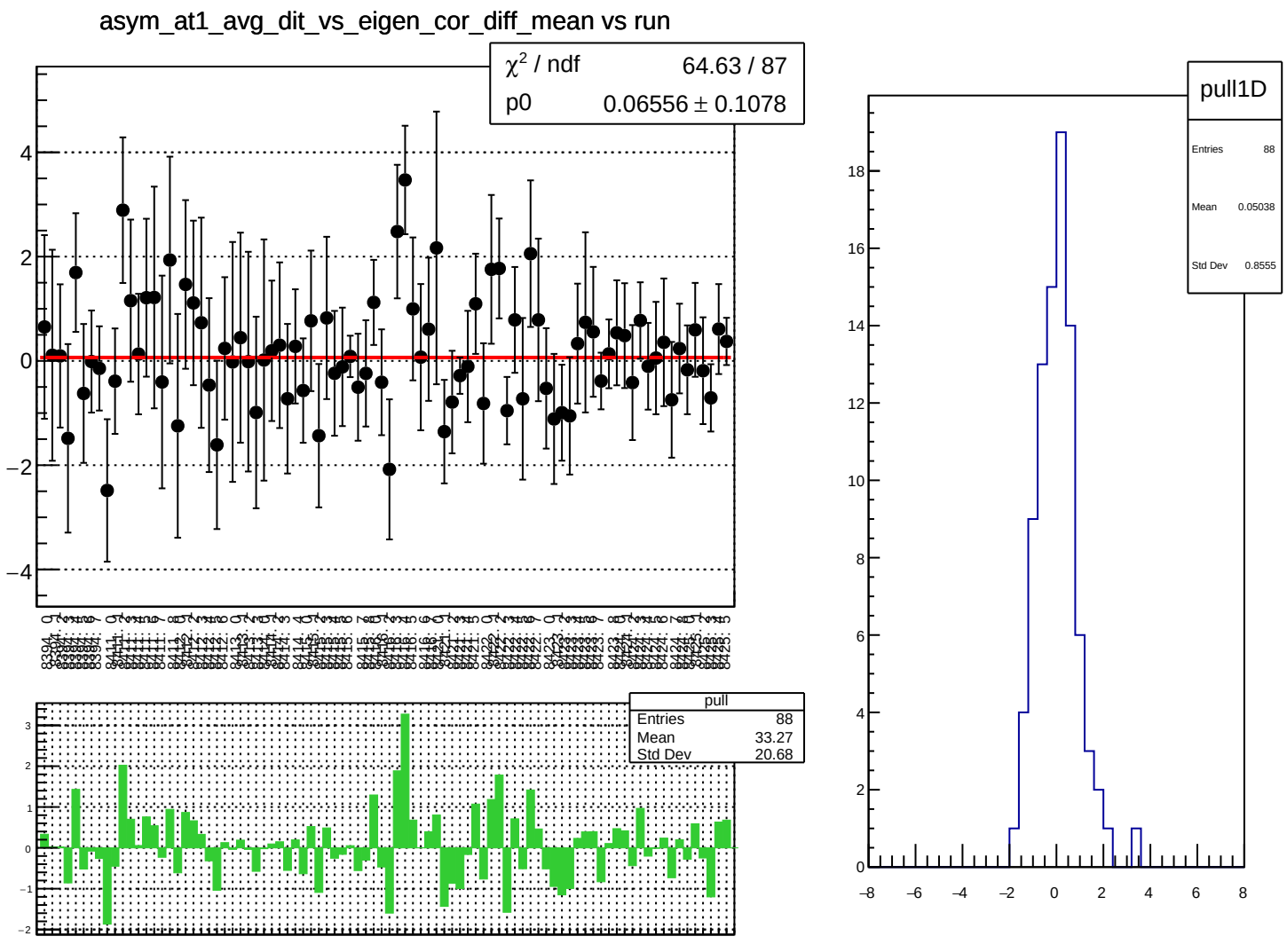

asym_at1_avg_rms vs run
χ² / ndf 2910 / 87
p0 2107 ± 1.621
2300
2200
2100
2000
1900

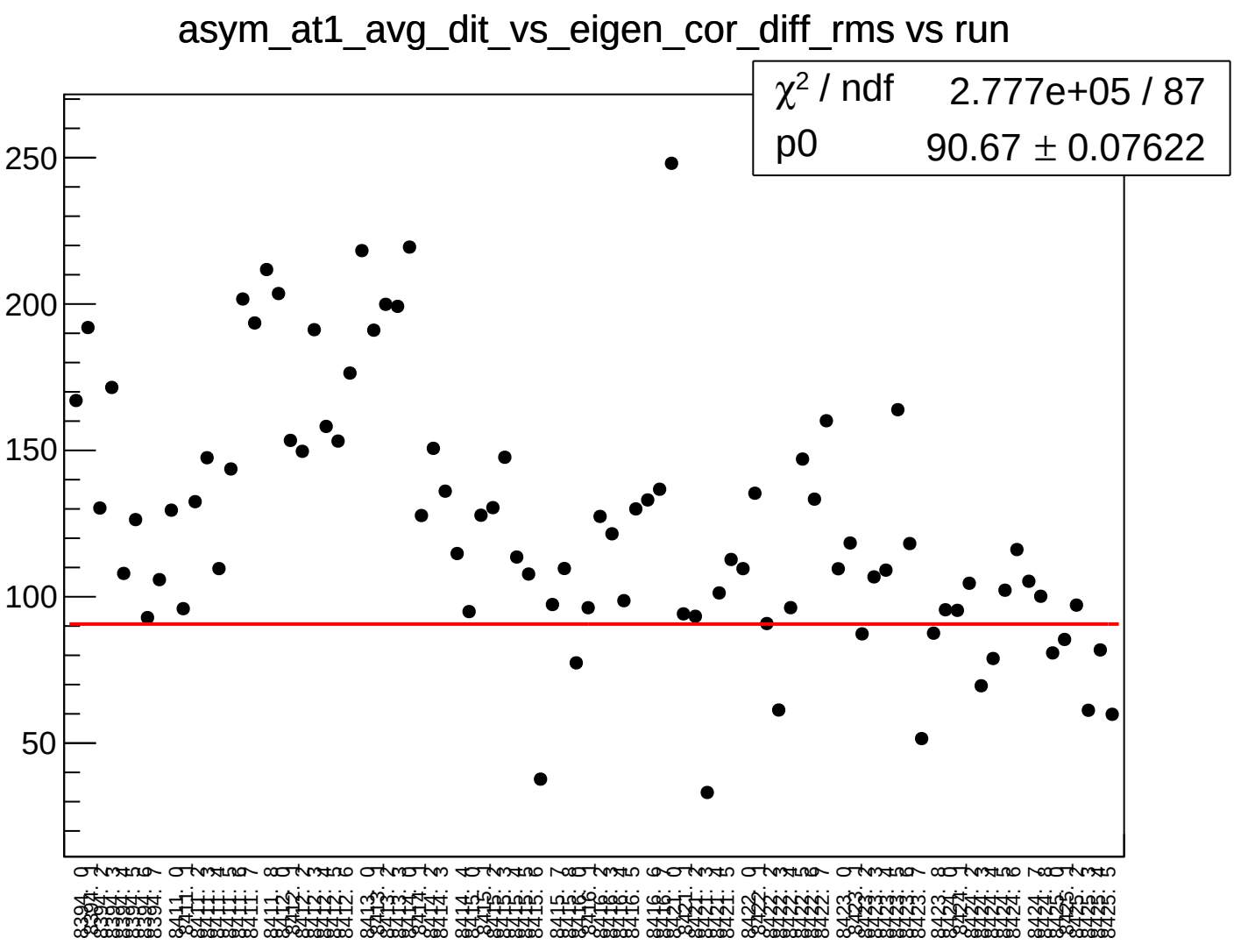

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 95.61 / 87
p0 1.957e−13 ± 1.449e−13
pull
Entries 88
Mean 98.72
Std Dev 0
pull1D
Entries 88
Mean −0.06599
Std Dev 1.04

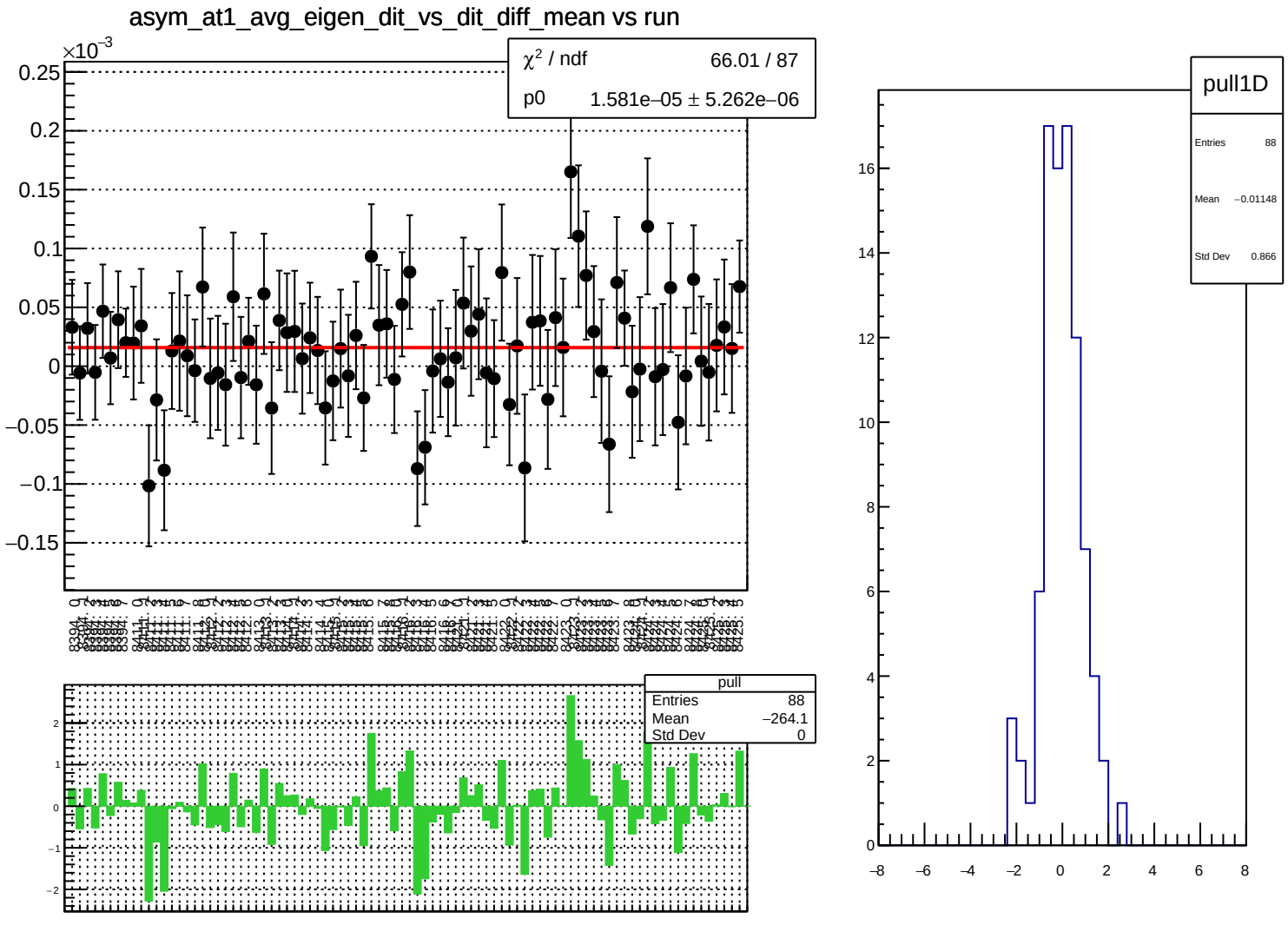

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.085e+06 / 87
p0 7.985e−11 ± 1.024e−13
1.2
1
0.8
0.6
0.4
0.2
0

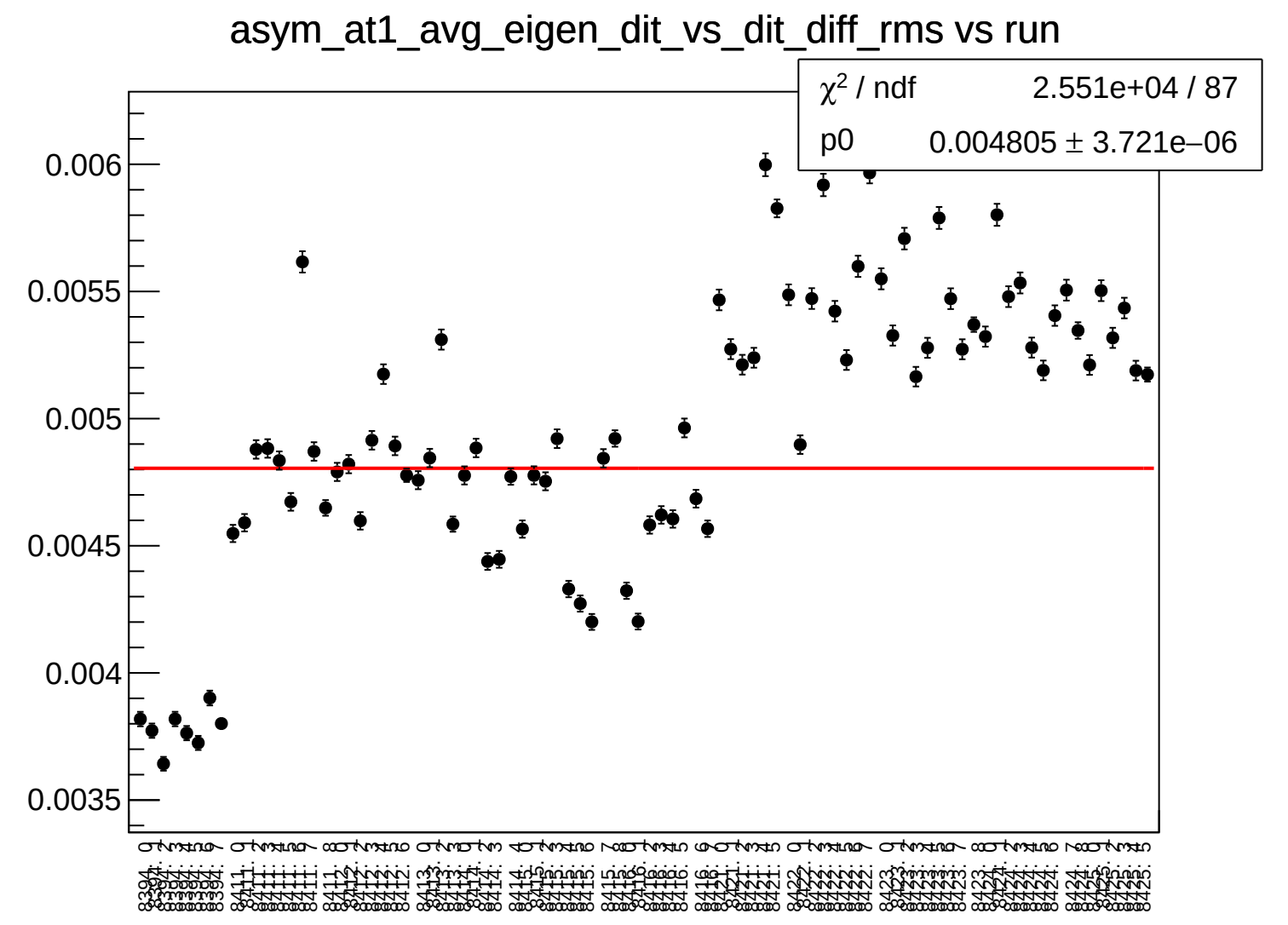

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 64.63 / 87
p0 0.06556 ± 0.1078
pull
Entries 88
Mean 33.27
Std Dev 20.68
pull1D
Entries 88
Mean 0.05038
Std Dev 0.8555

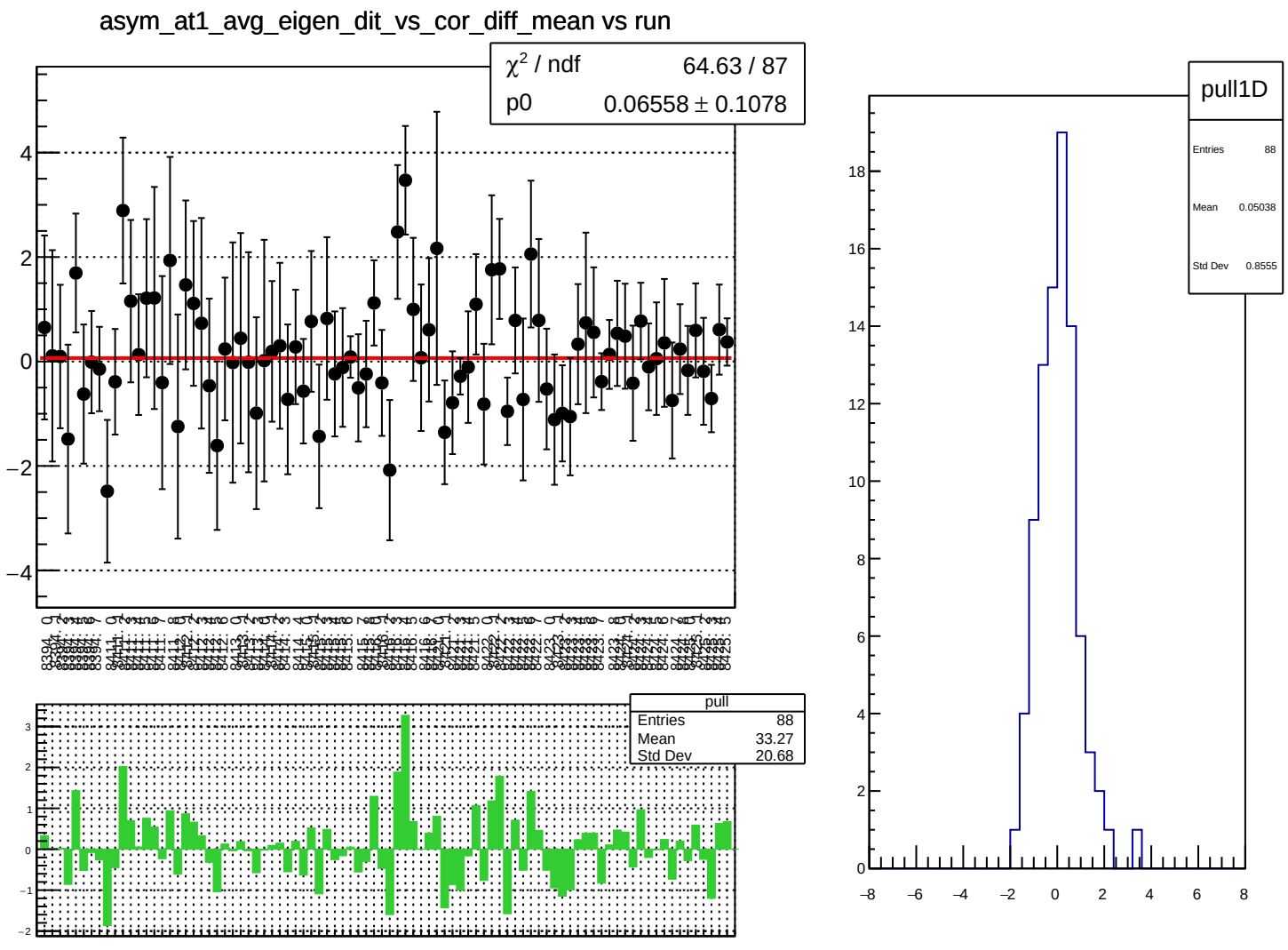

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.777e+05 / 87
p0 90.67 ± 0.07622
250
200
150
100
50

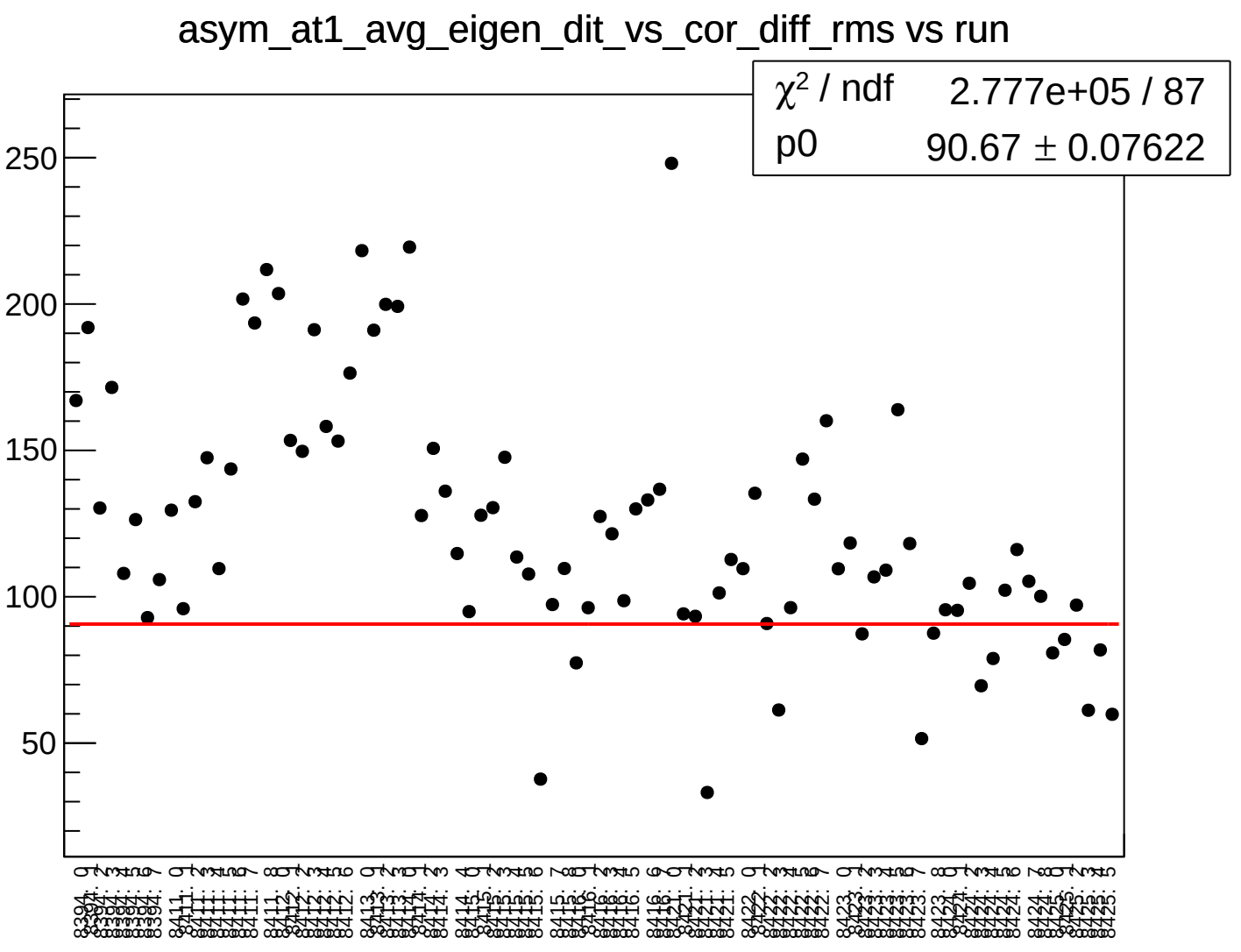

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.63 / 87
p0 0.06556 ± 0.1078
pull
Entries 88
Mean 33.27
Std Dev 20.68
pull1D
Entries 88
Mean 0.05038
Std Dev 0.8555

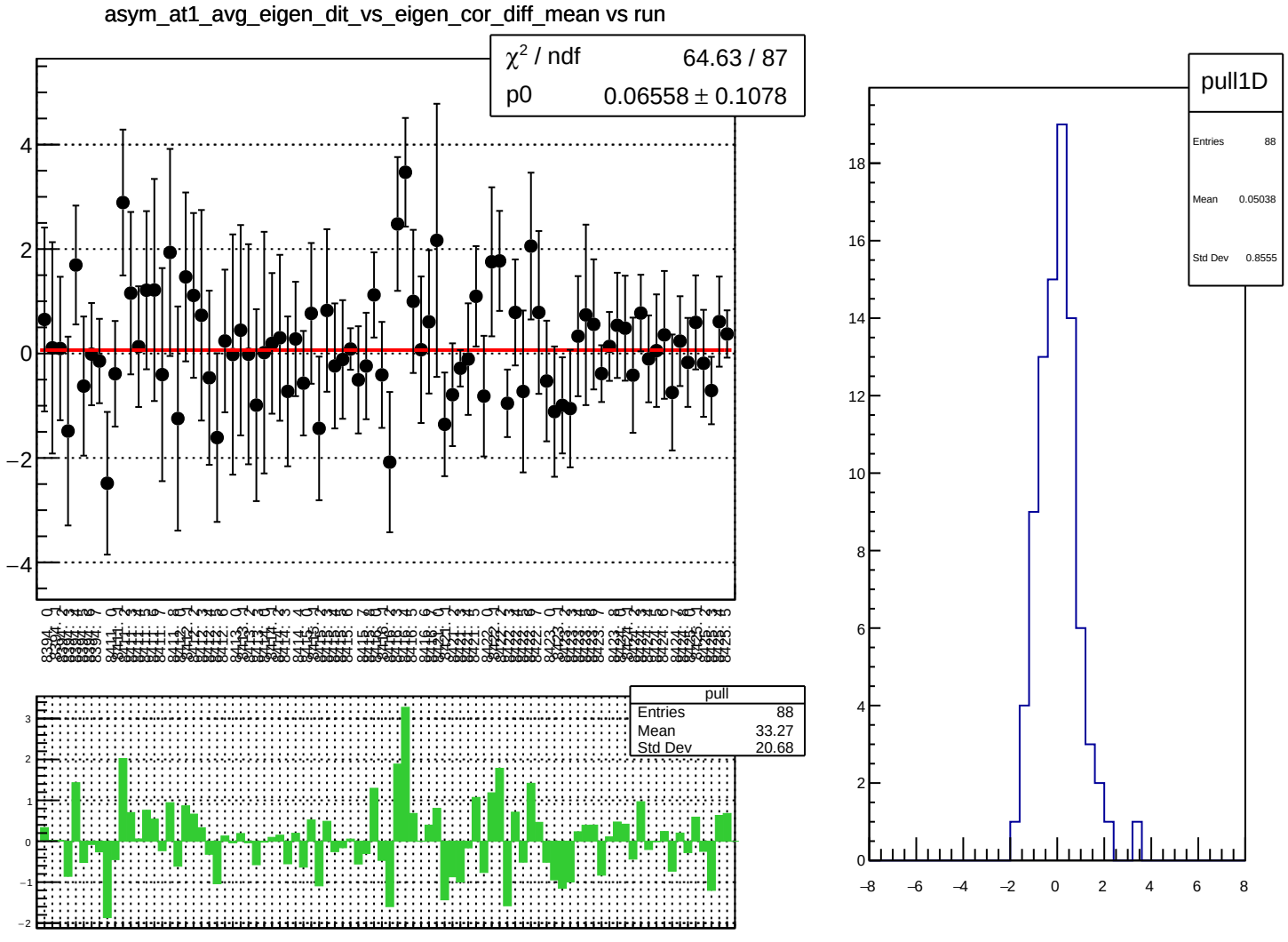

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.777e+05 / 87
p0 90.67 ± 0.07622
250
200
150
100
50

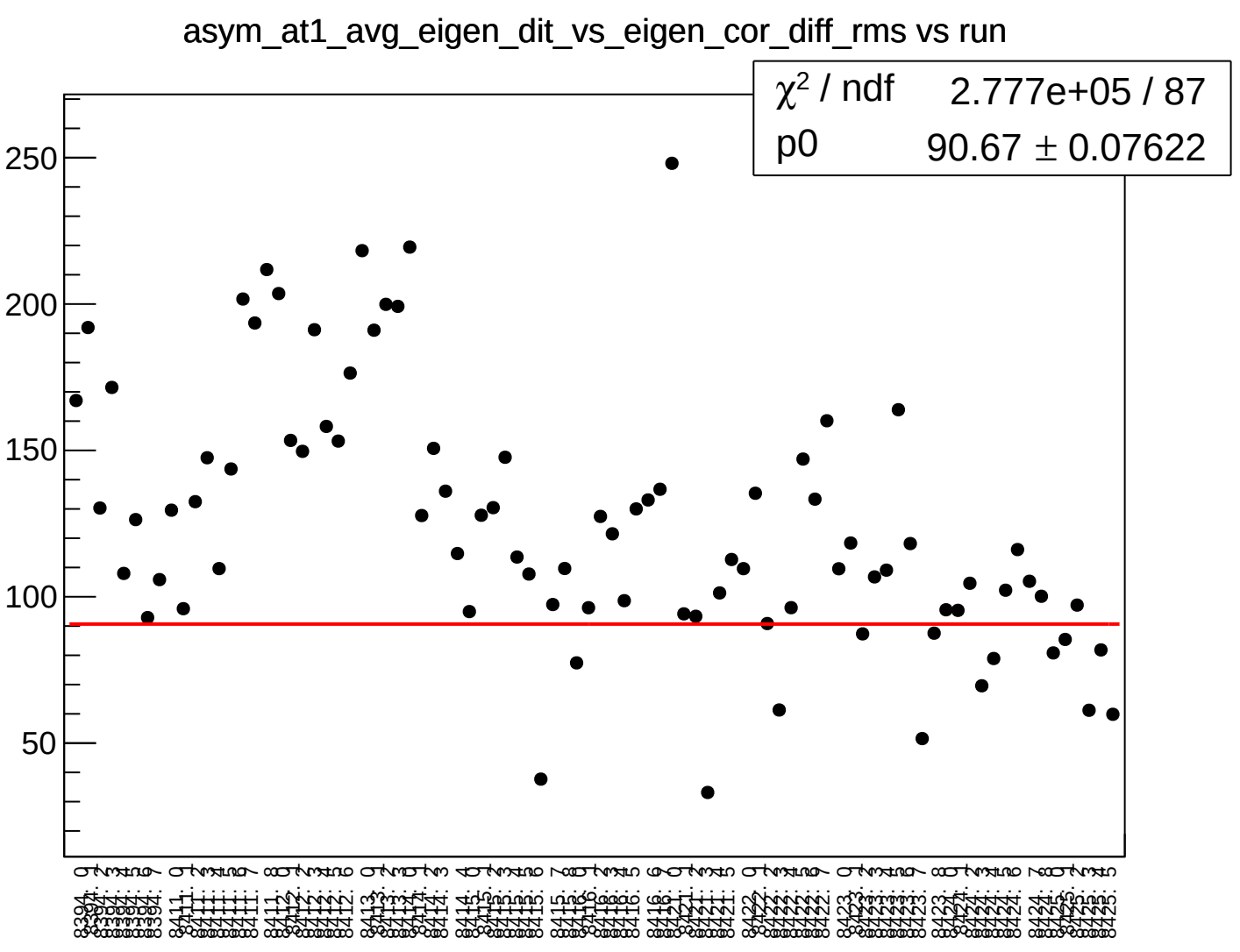

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 66.01 / 87
p0 1.581e−05 ± 5.262e−06
pull
Entries 88
Mean −264.1
Std Dev 0
pull1D
Entries 88
Mean −0.01148
Std Dev 0.866

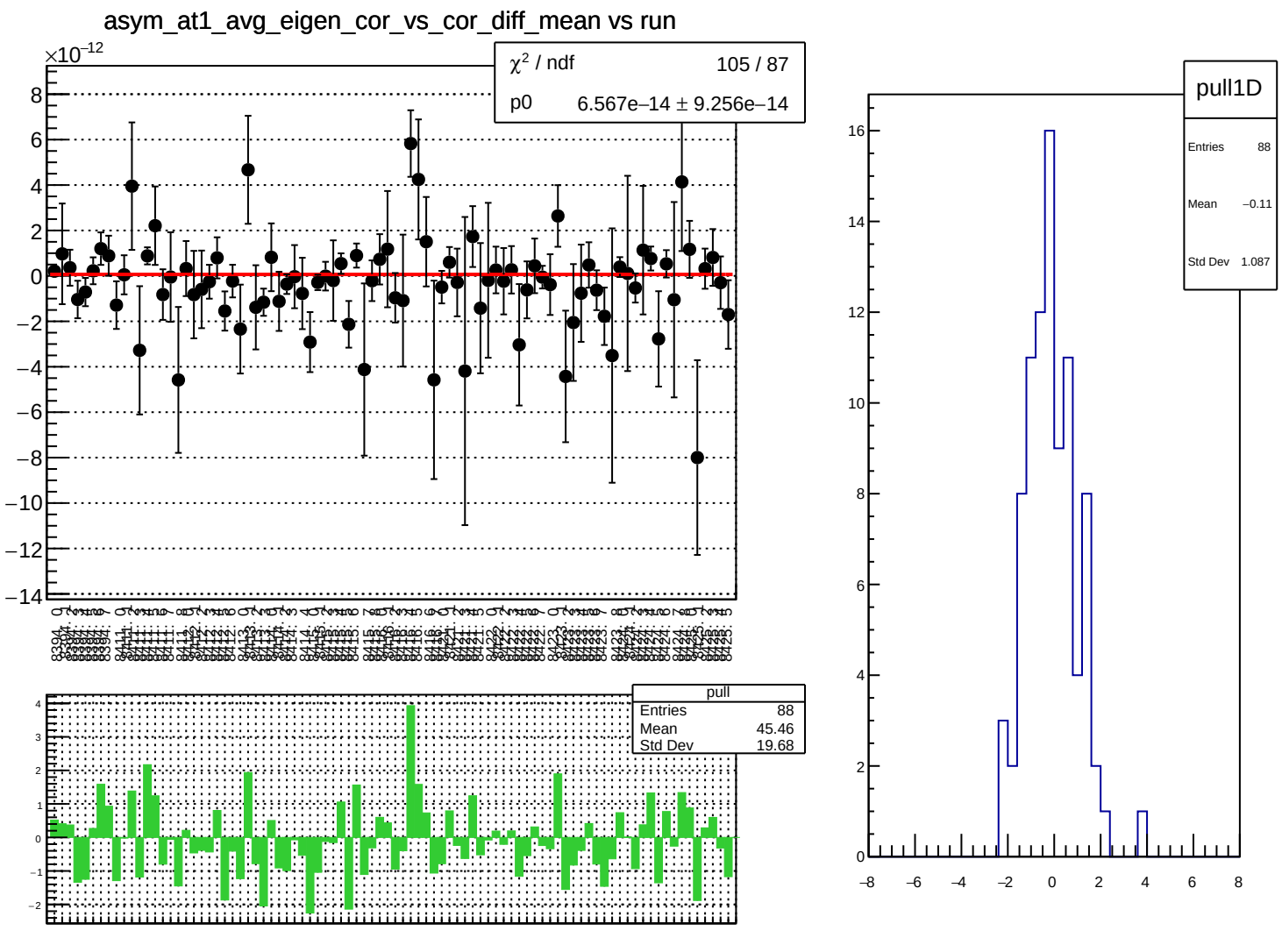

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.551e+04 / 87
p0 0.004805 ± 3.721e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035

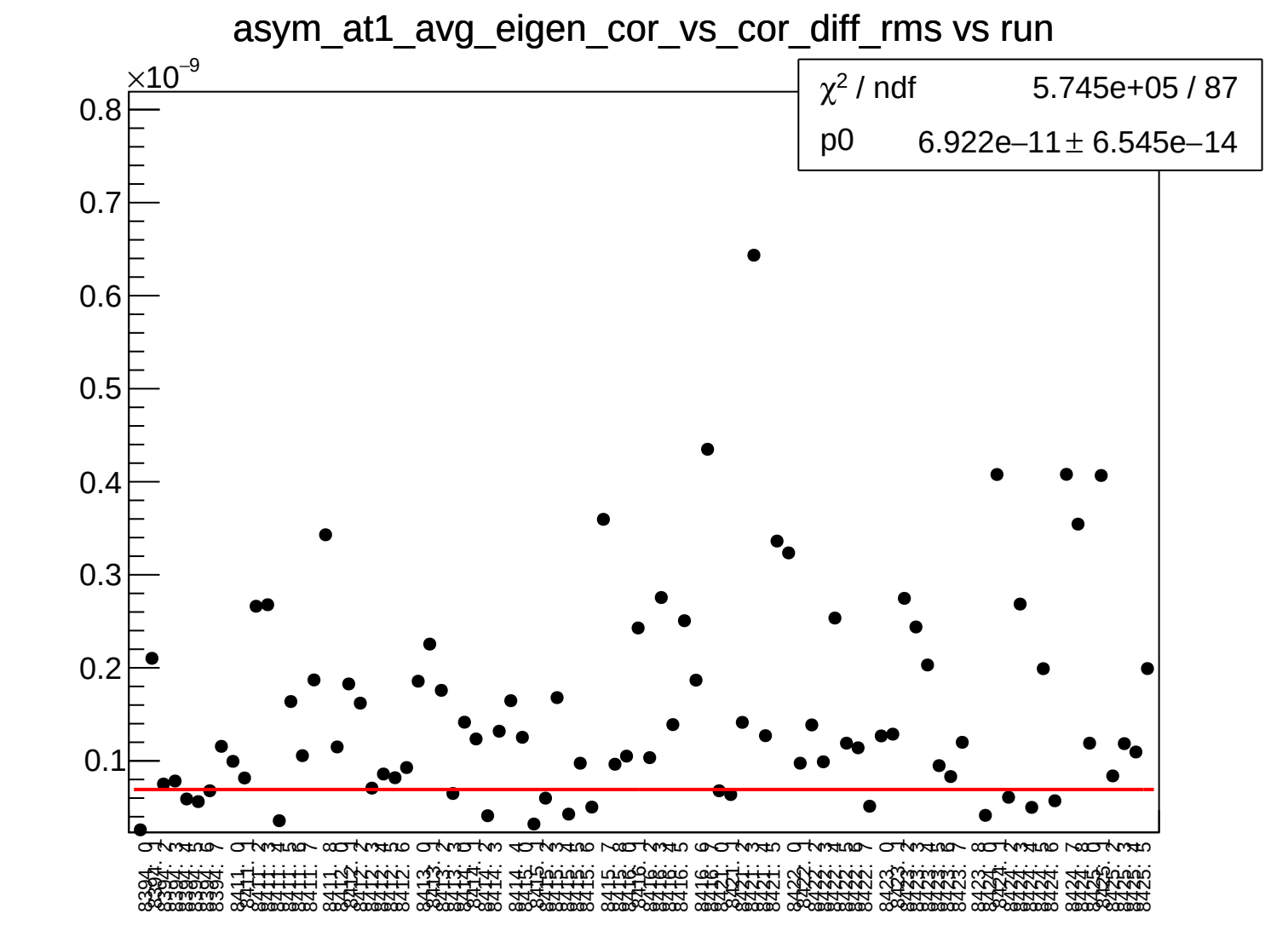

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 64.63 / 87
p0 0.06558 ± 0.1078
pull
Entries 88
Mean 33.27
Std Dev 20.68
pull1D
Entries 88
Mean 0.05038
Std Dev 0.8555

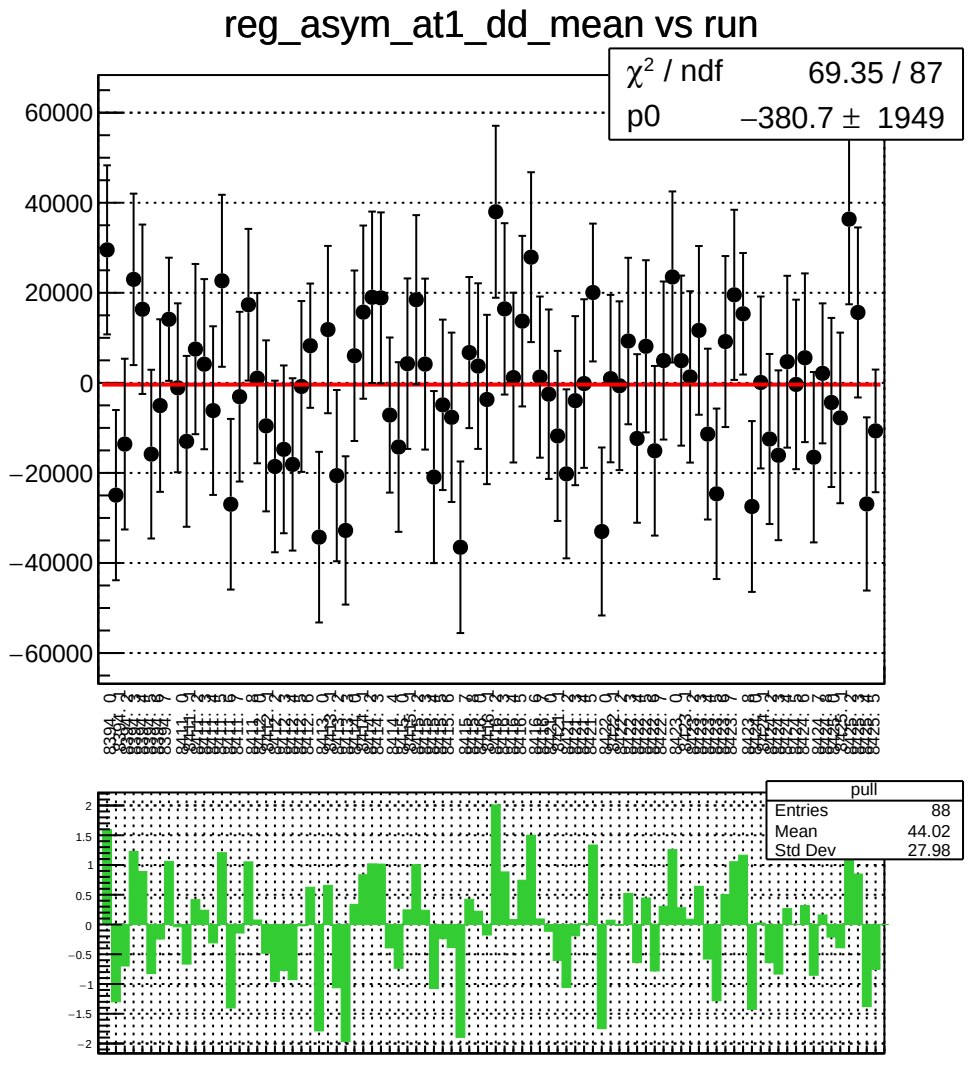

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.777e+05 / 87
p0 90.67 ± 0.07622
250
200
150
100
50

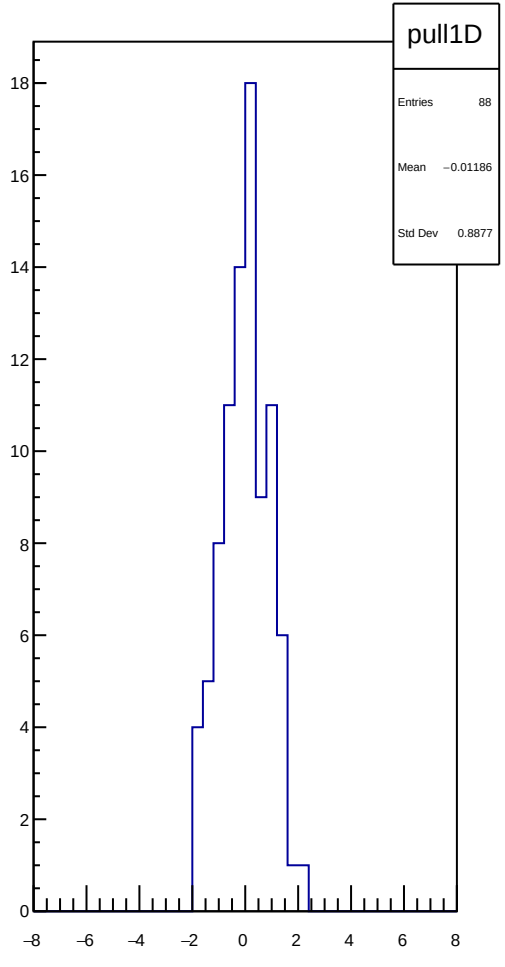

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.63 / 87
p0 0.06558 ± 0.1078
pull
Entries 88
Mean 33.27
Std Dev 20.68
pull1D
Entries 88
Mean 0.05038
Std Dev 0.8555

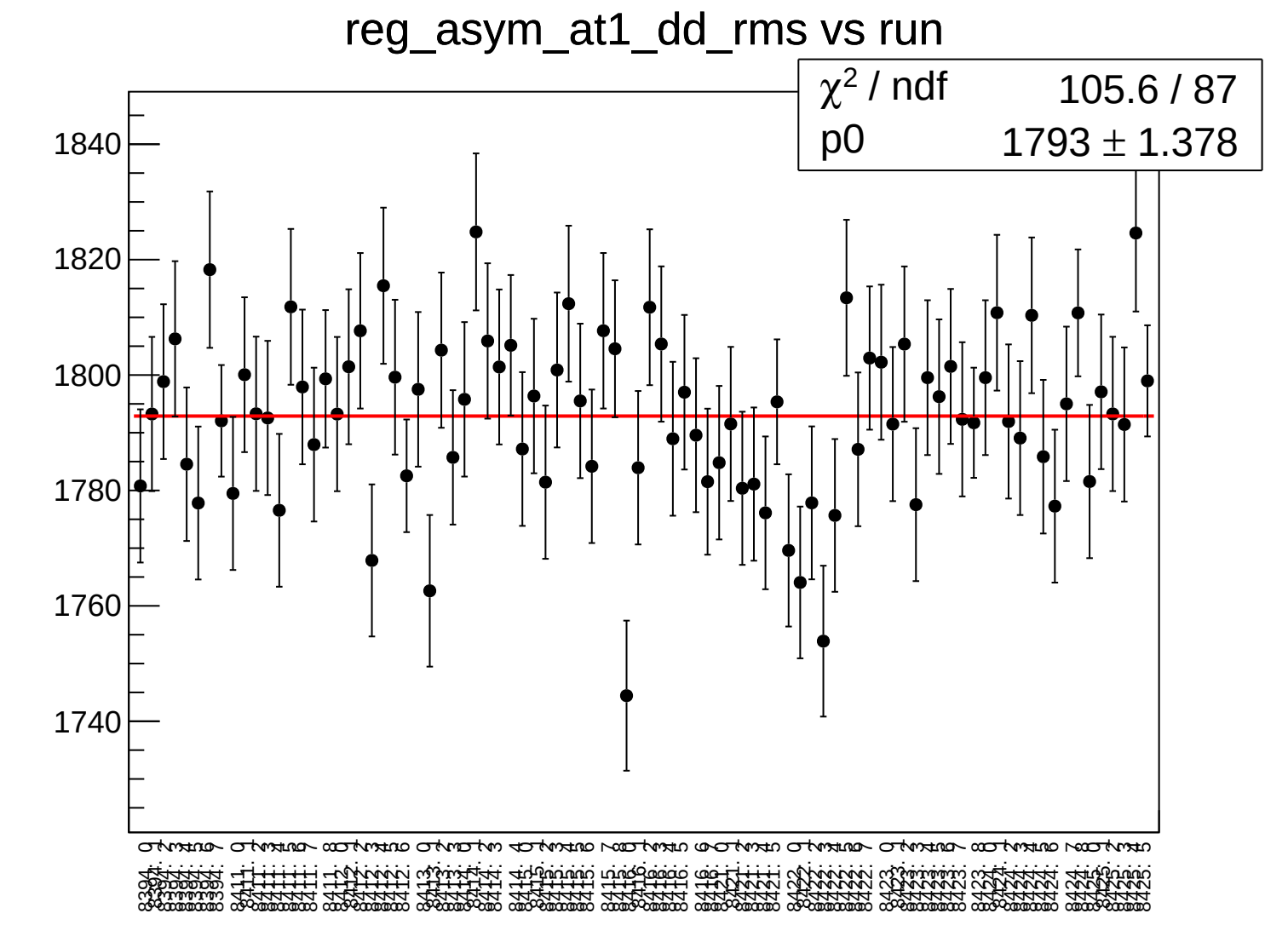

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.777e+05 / 87
p0 90.67 ± 0.07622
250
200
150
100
50

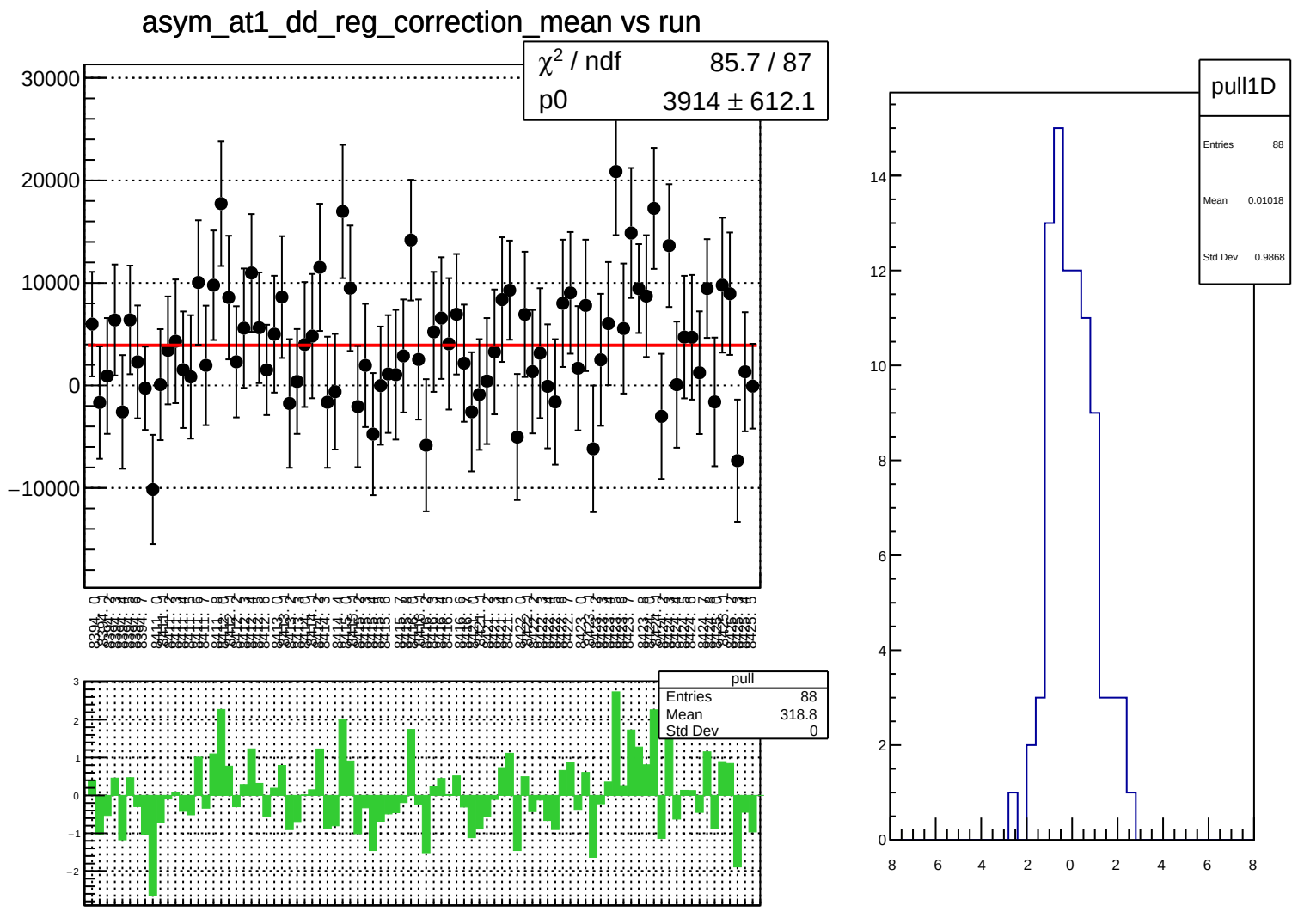

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 105 / 87
p0 6.567e−14 ± 9.256e−14
pull
Entries 88
Mean 45.46
Std Dev 19.68
pull1D
Entries 88
Mean −0.11
Std Dev 1.087

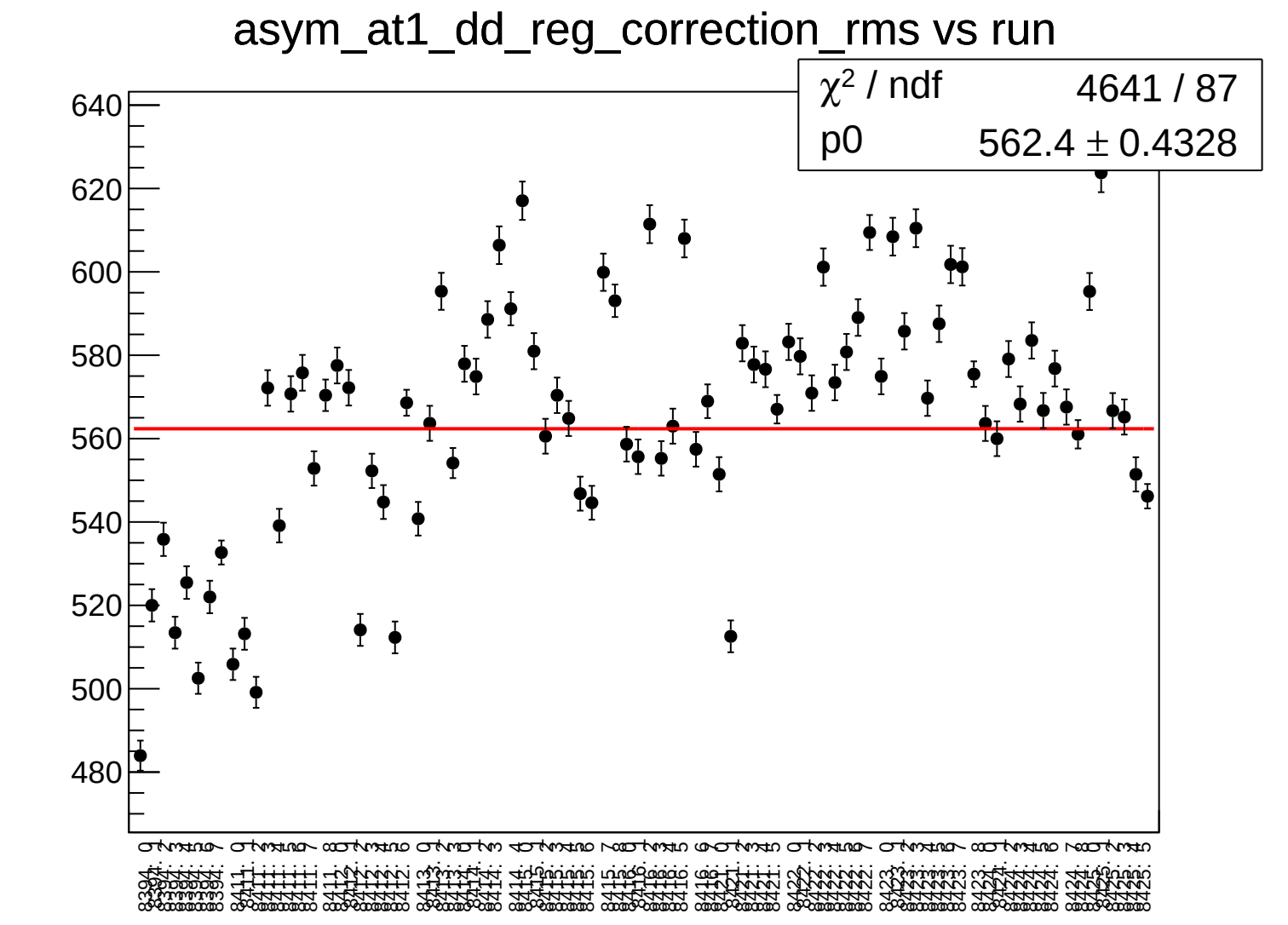

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.745e+05 / 87
p0 6.922e−11 ± 6.545e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

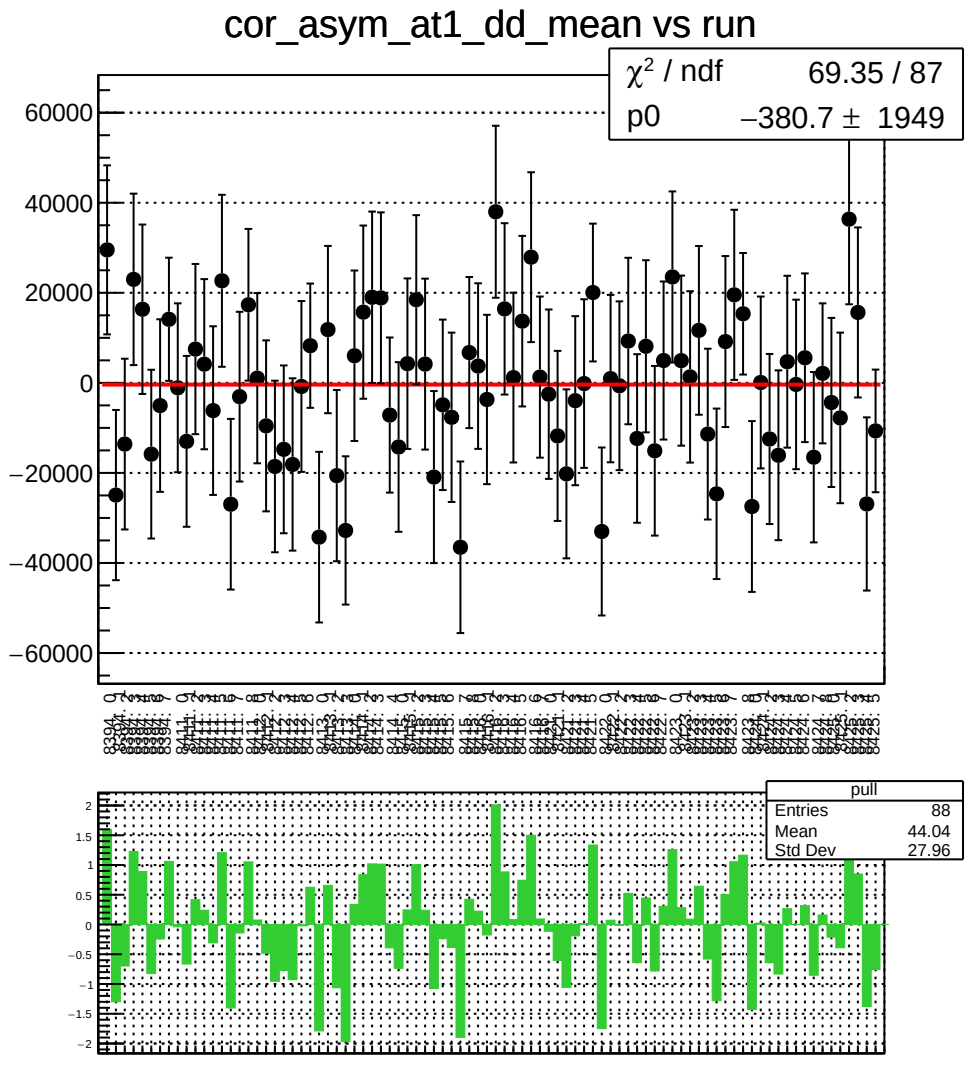

reg_asym_at1_dd_mean vs run
χ² / ndf 69.35 / 87
p0 −380.7 ± 1949
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 44.02
Std Dev 27.98
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

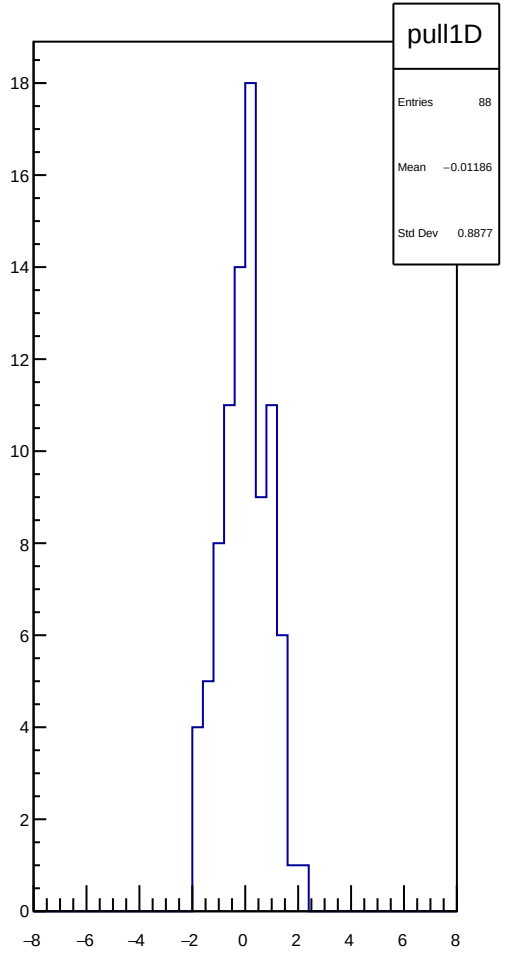

pull1D
Entries 88
Mean −0.01186
Std Dev 0.8877
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

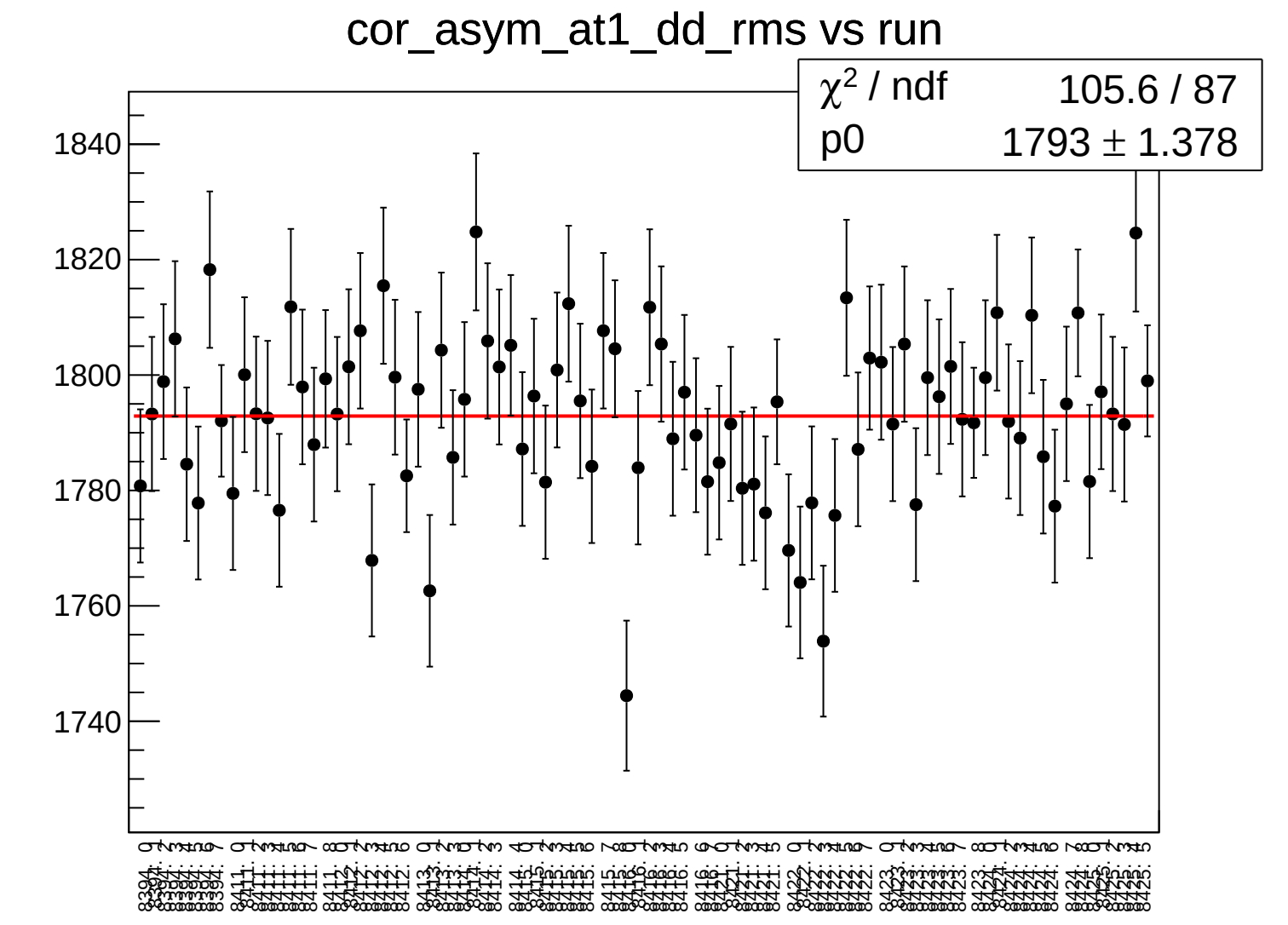

reg_asym_at1_dd_rms vs run
χ^2 / ndf 105.6 / 87
p0 1793 ± 1.378
1840
1820
1800
1780
1760
1740

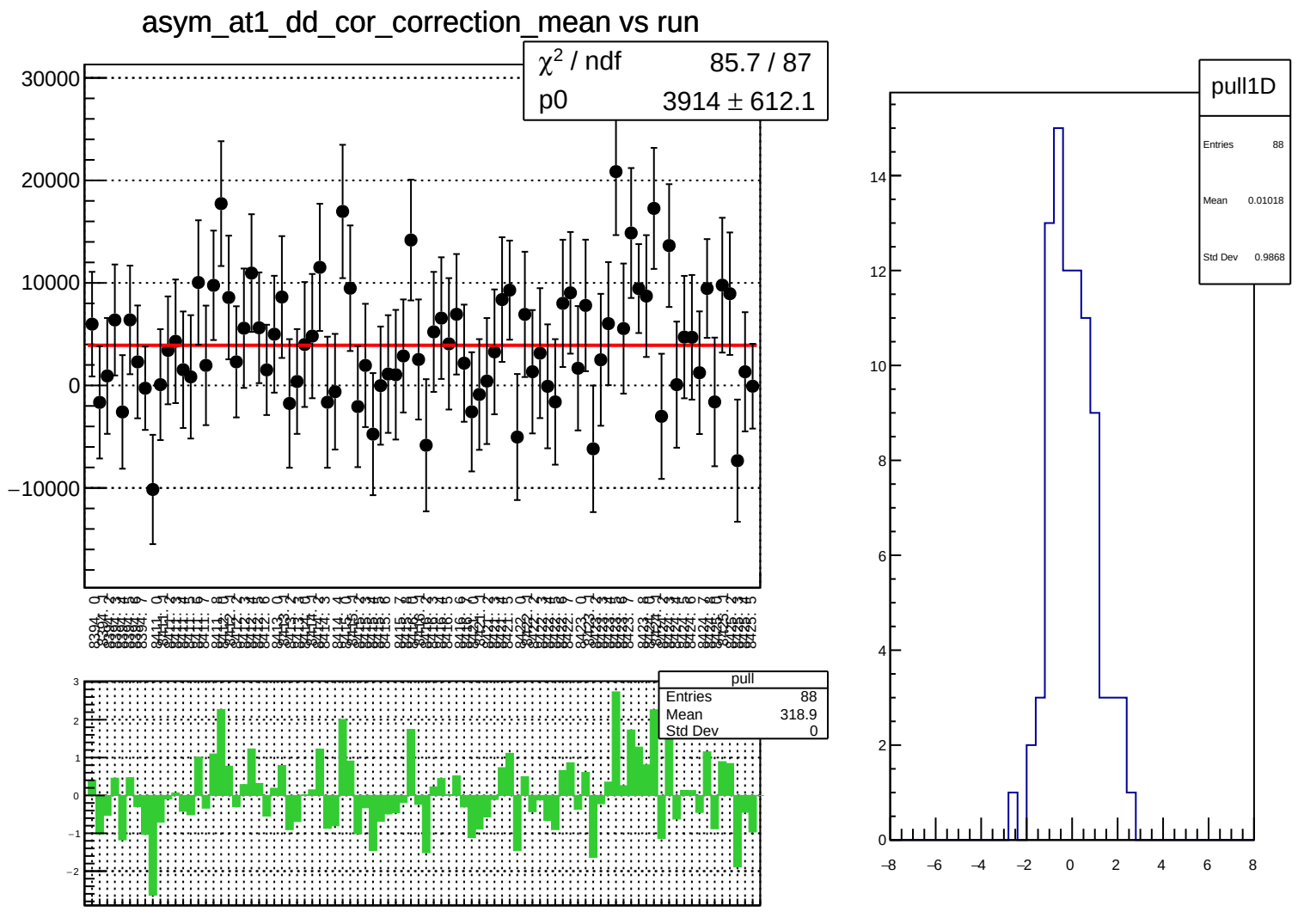

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 85.7 / 87
p0 3914 ± 612.1
30000
20000
10000
0
−10000
pull
Entries 88
Mean 318.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01018
Std Dev 0.9868
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

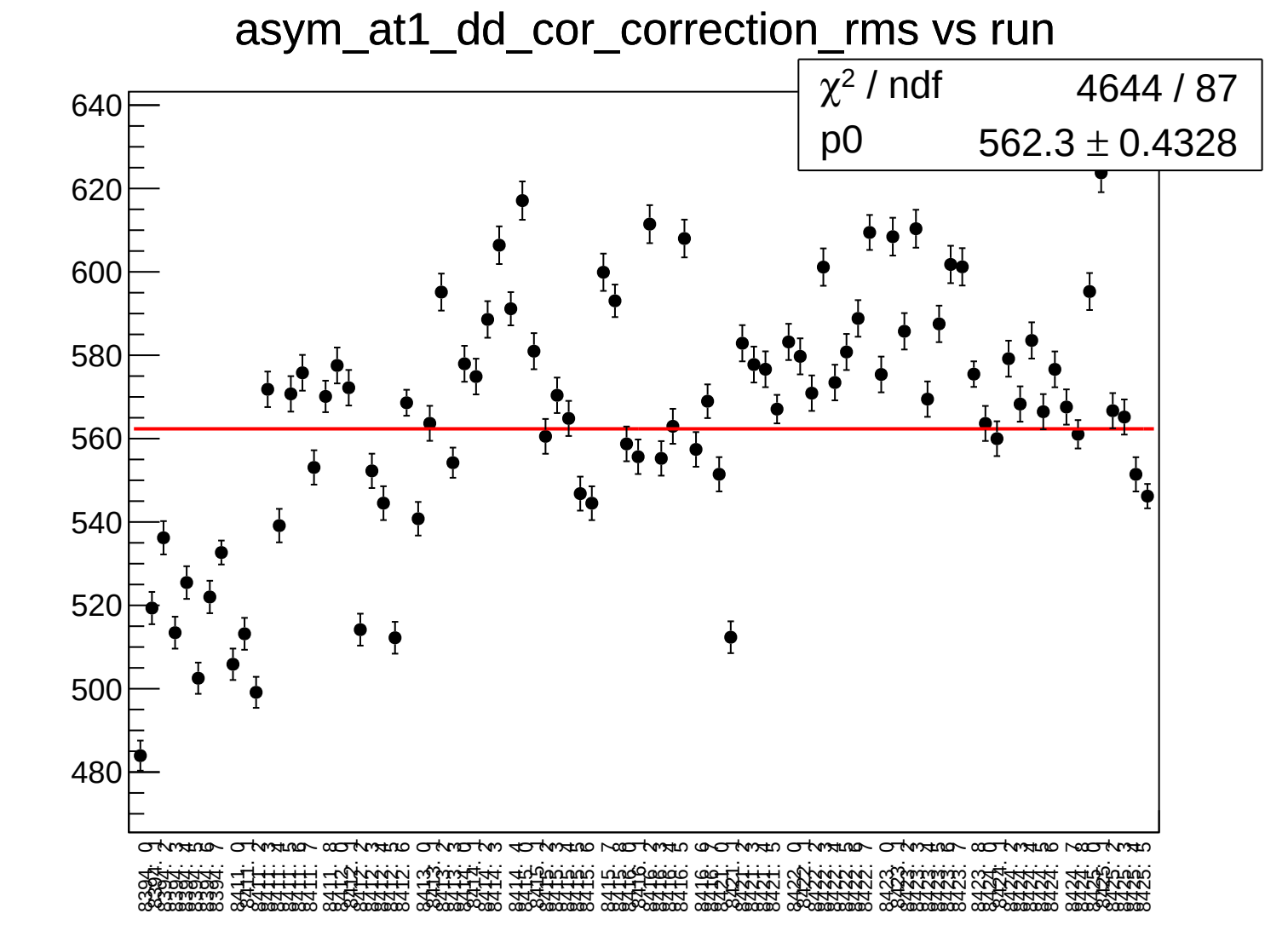

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 4641 / 87
p0 562.4 ± 0.4328
640
620
600
580
560
540
520
500
480

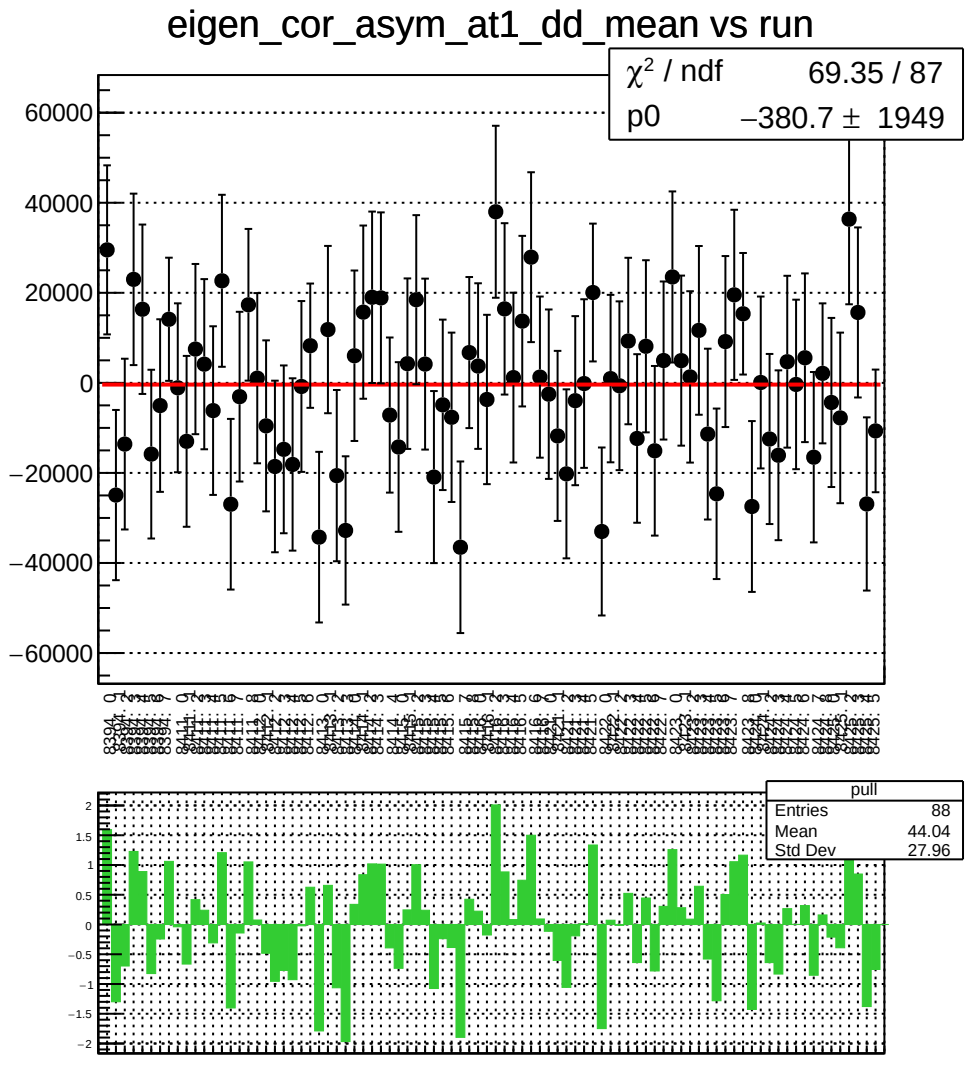

cor_asym_at1_dd_mean vs run
χ² / ndf 69.35 / 87
p0 −380.7 ± 1949
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 44.04
Std Dev 27.96
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

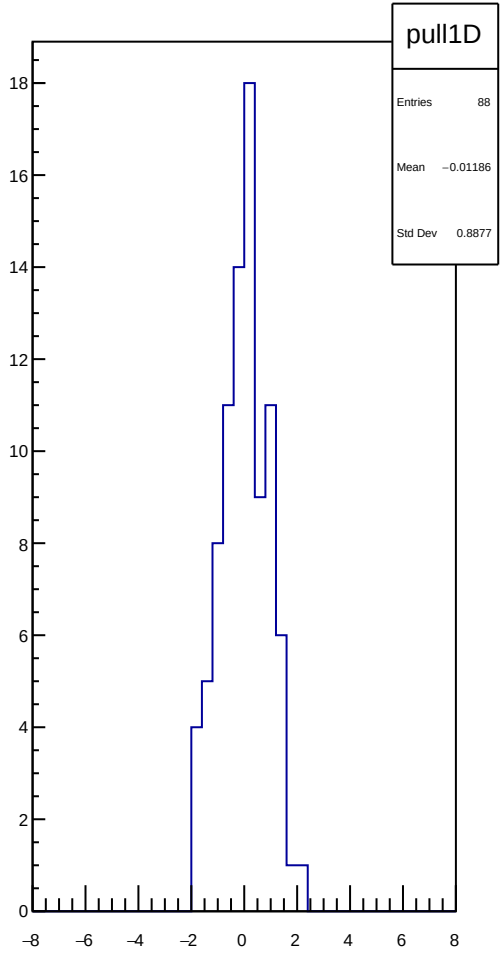

pull1D
Entries 88
Mean −0.01186
Std Dev 0.8877
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

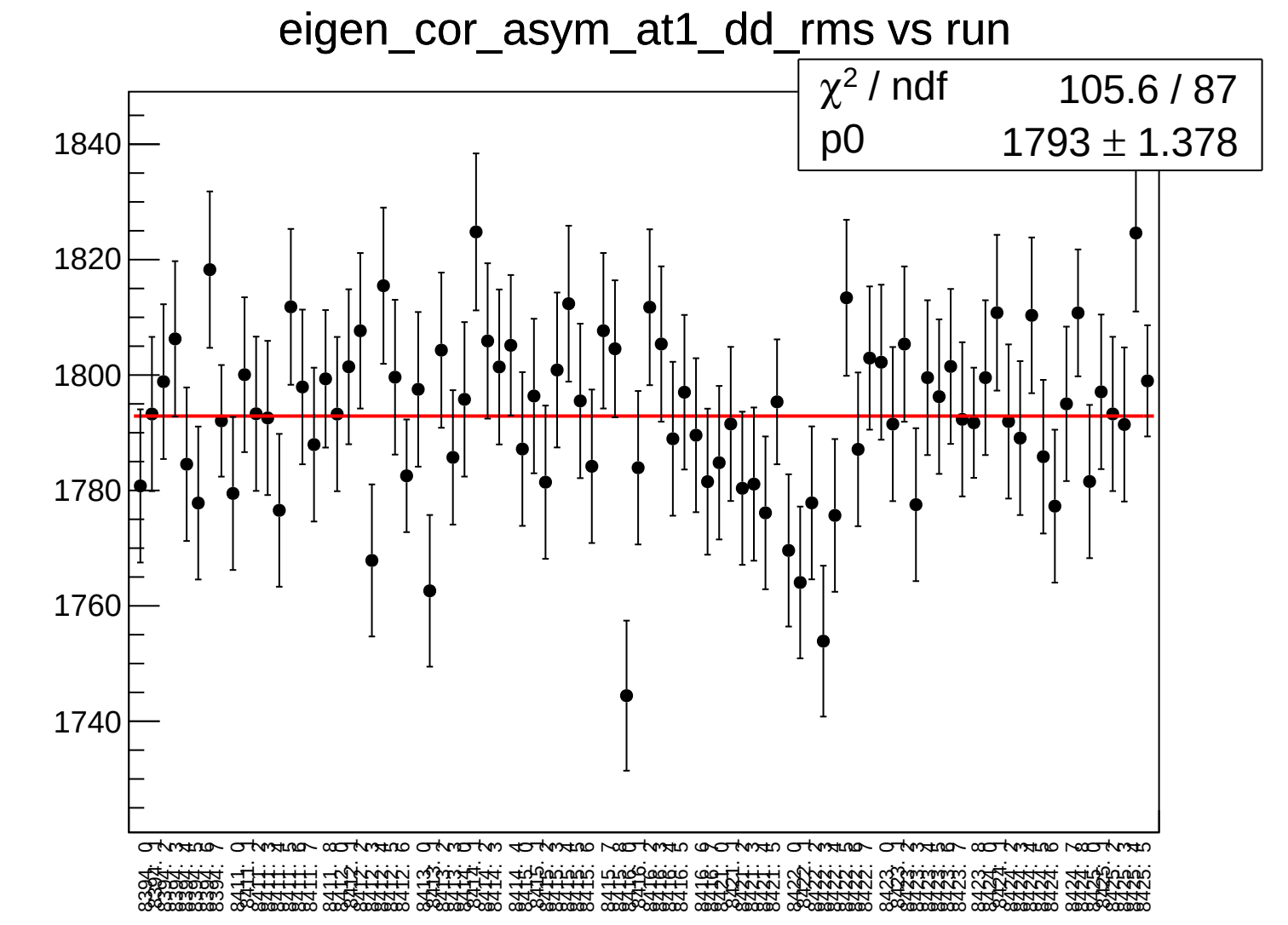

cor_asym_at1_dd_rms vs run
χ^2 / ndf 105.6 / 87
p0 1793 ± 1.378
1840
1820
1800
1780
1760
1740

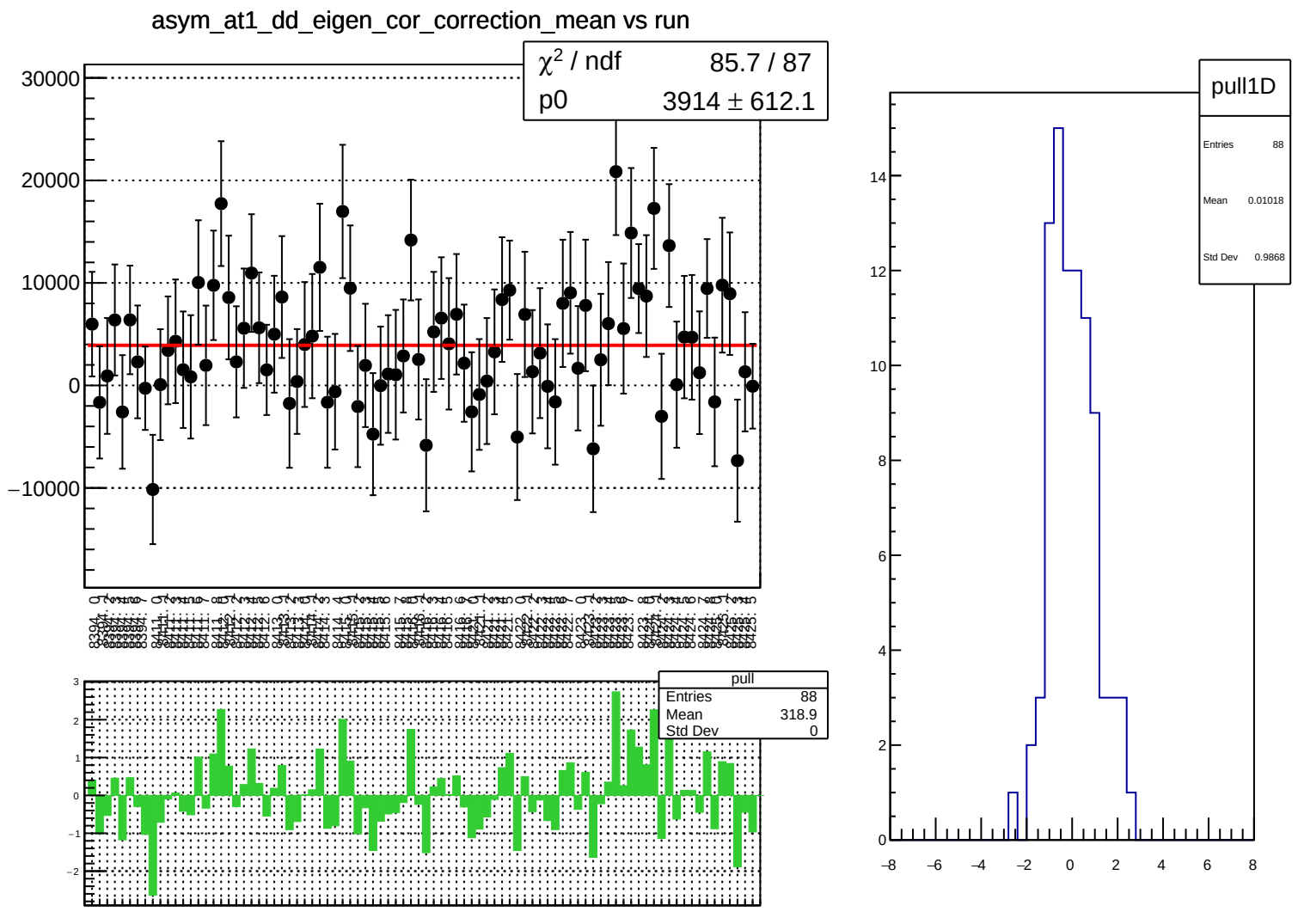

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 85.7 / 87
p0 3914 ± 612.1
30000
20000
10000
0
−10000
pull
Entries 88
Mean 318.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01018
Std Dev 0.9868
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

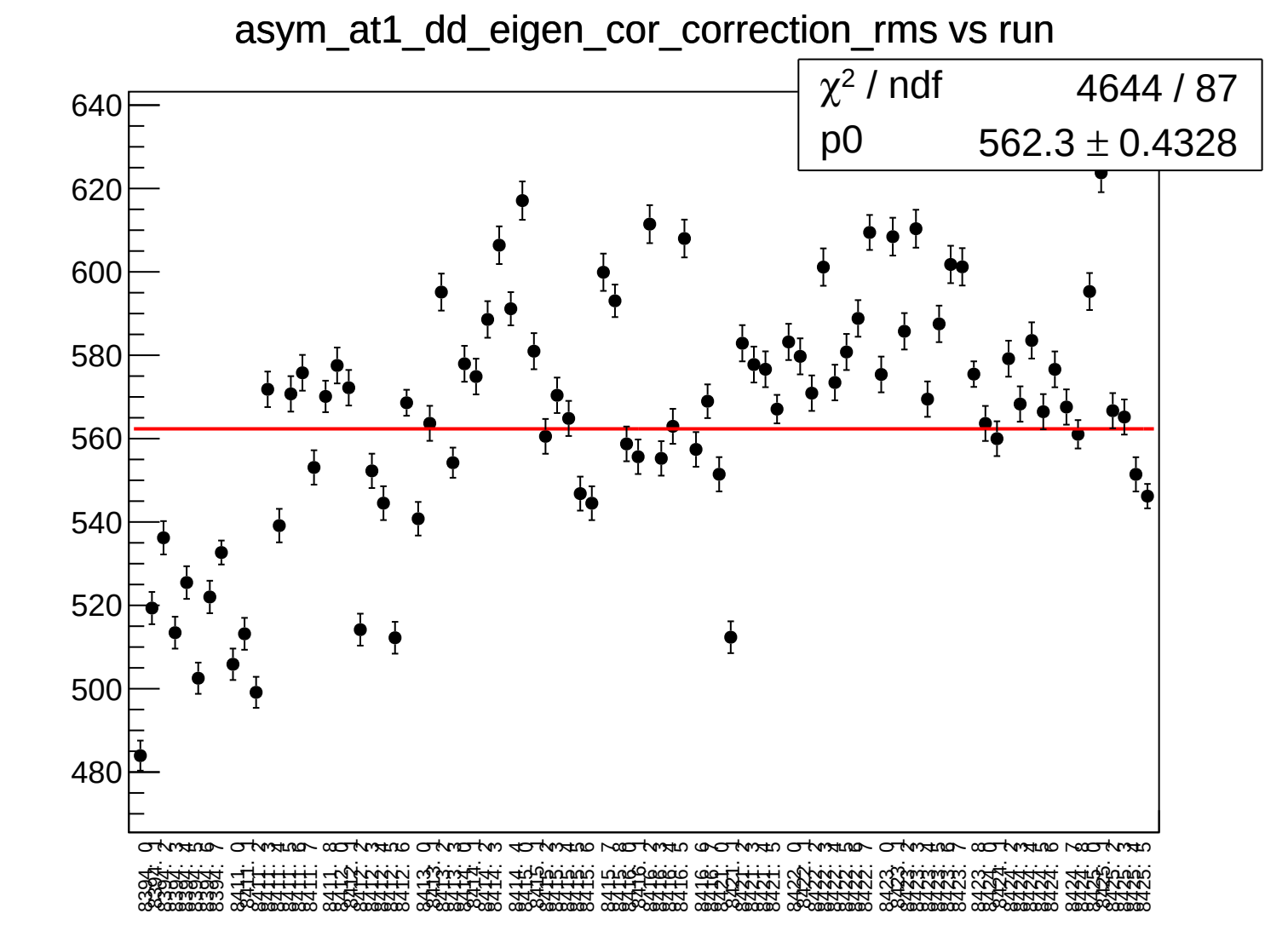

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 4644 / 87
p0 562.3 ± 0.4328
640
620
600
580
560
540
520
500
480

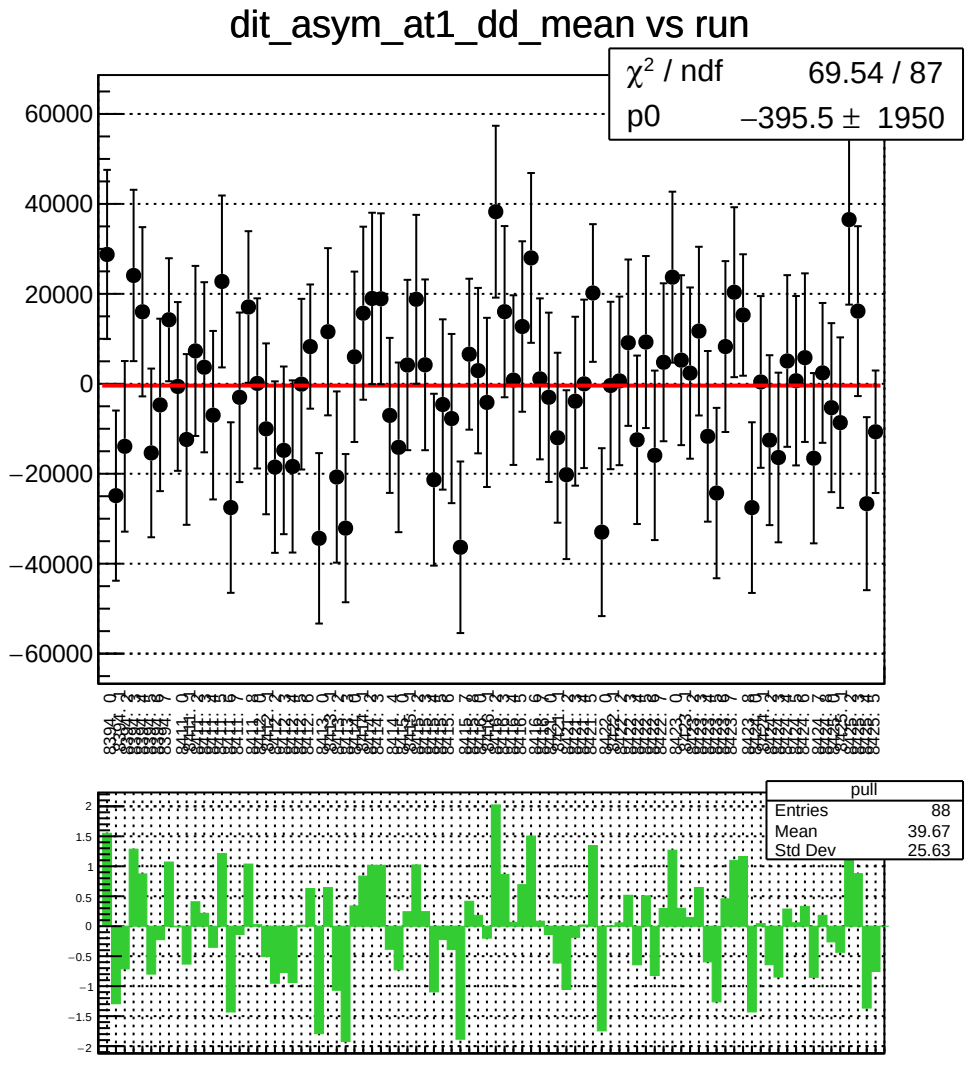

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 69.35 / 87
p0 −380.7 ± 1949
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 44.04
Std Dev 27.96
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

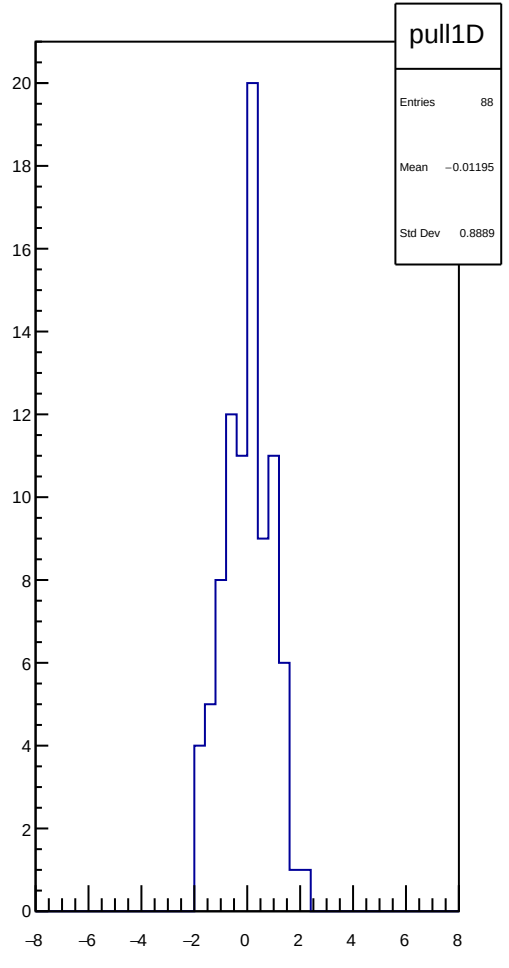

pull1D
Entries 88
Mean −0.01186
Std Dev 0.8877
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

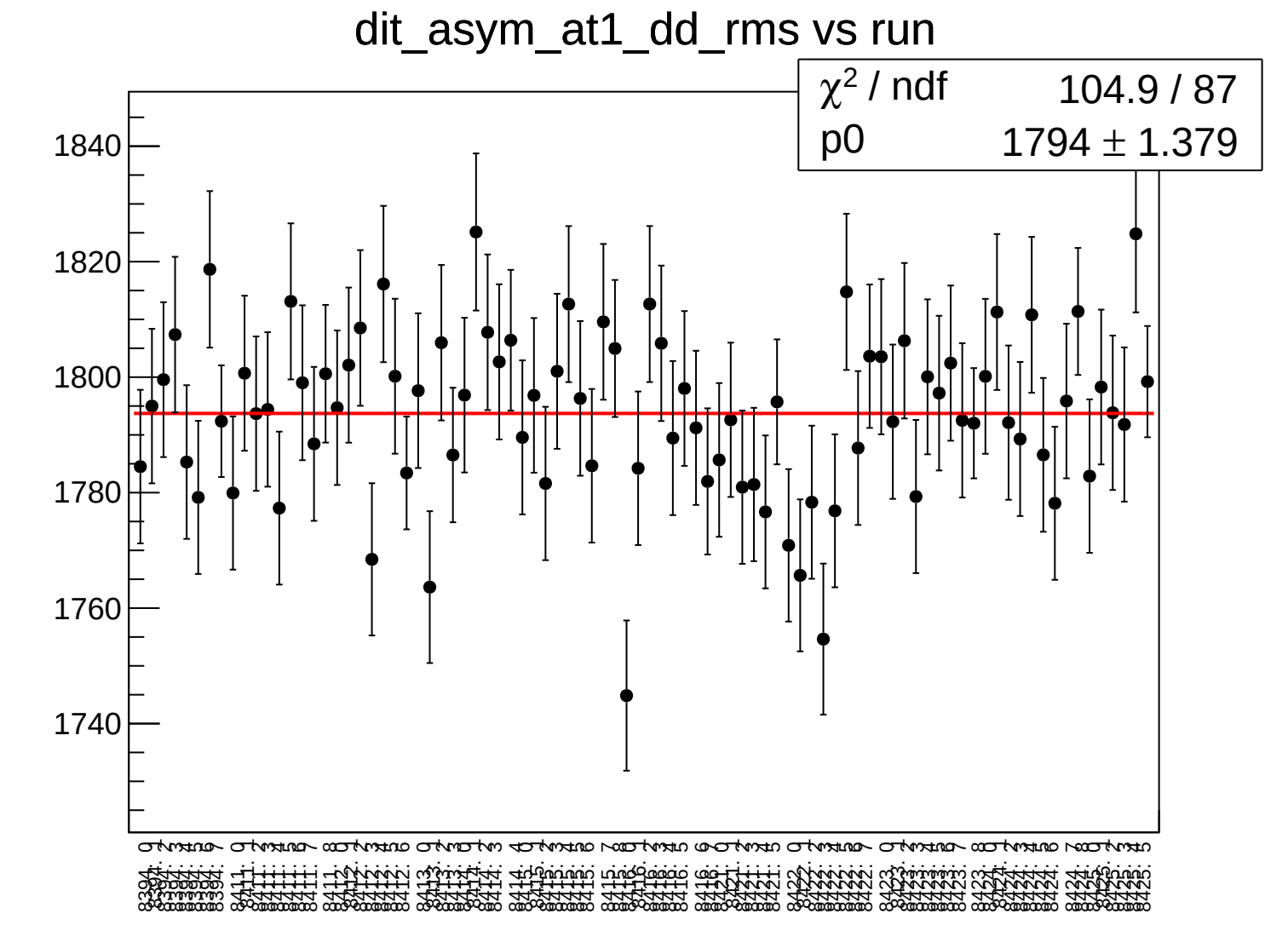

eigen_cor_asym_at1_dd_rms vs run
χ^2 / ndf 105.6 / 87
p0 1793 ± 1.378
1840
1820
1800
1780
1760
1740

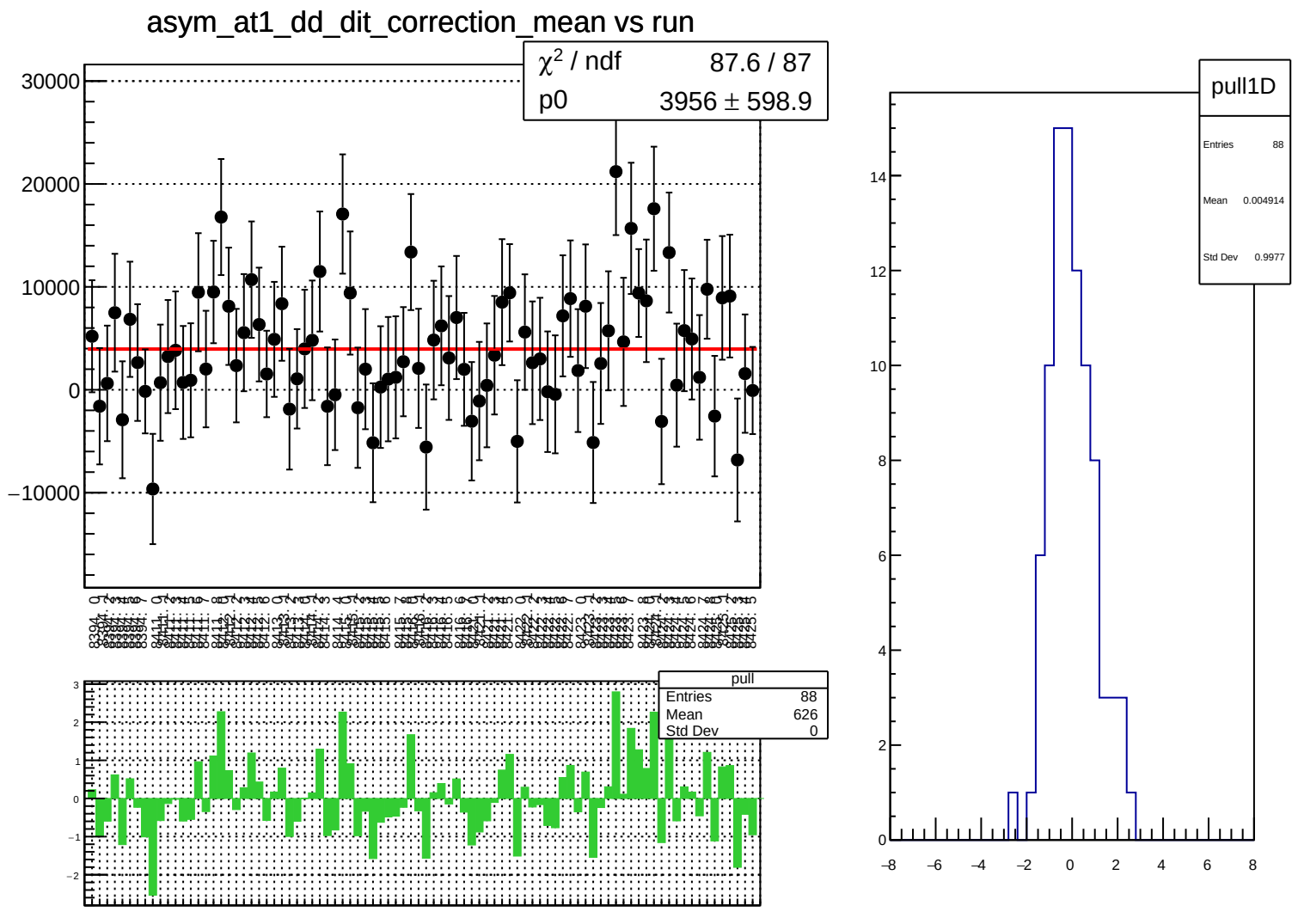

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 85.7 / 87
p0 3914 ± 612.1
30000
20000
10000
0
−10000
pull
Entries 88
Mean 318.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01018
Std Dev 0.9868
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

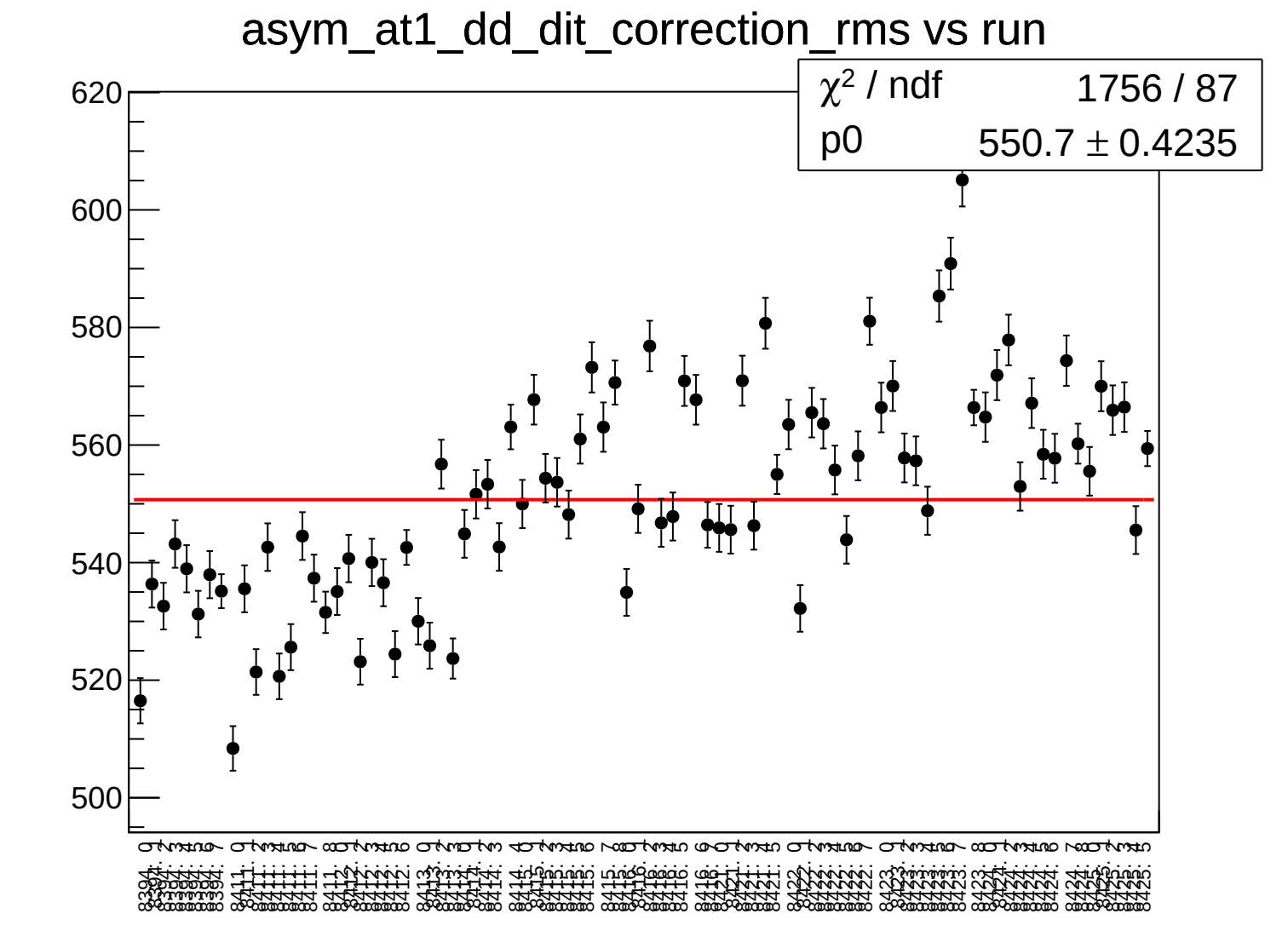

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 4644 / 87
p0 562.3 ± 0.4328
640
620
600
580
560
540
520
500
480

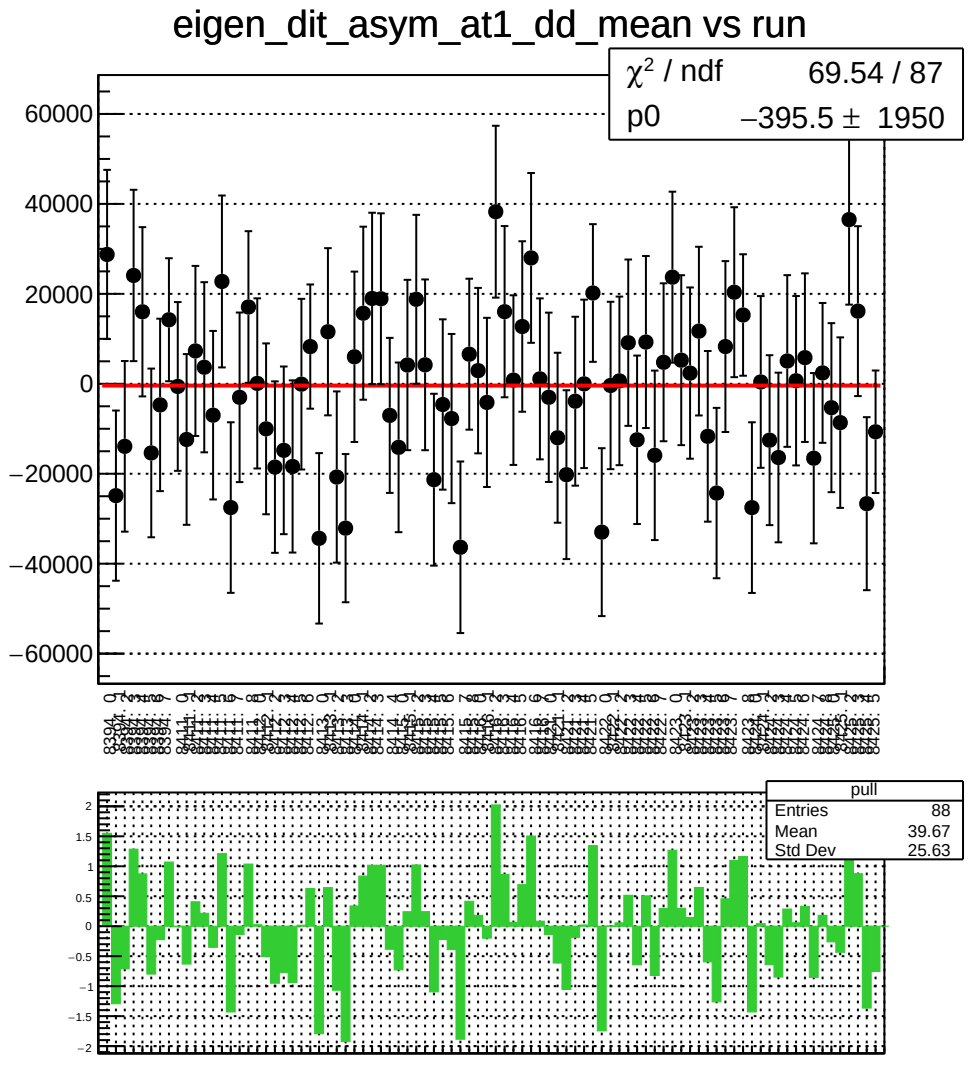

dit_asym_at1_dd_mean vs run
χ² / ndf 69.54 / 87
p0 −395.5 ± 1950
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 39.67
Std Dev 25.63
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

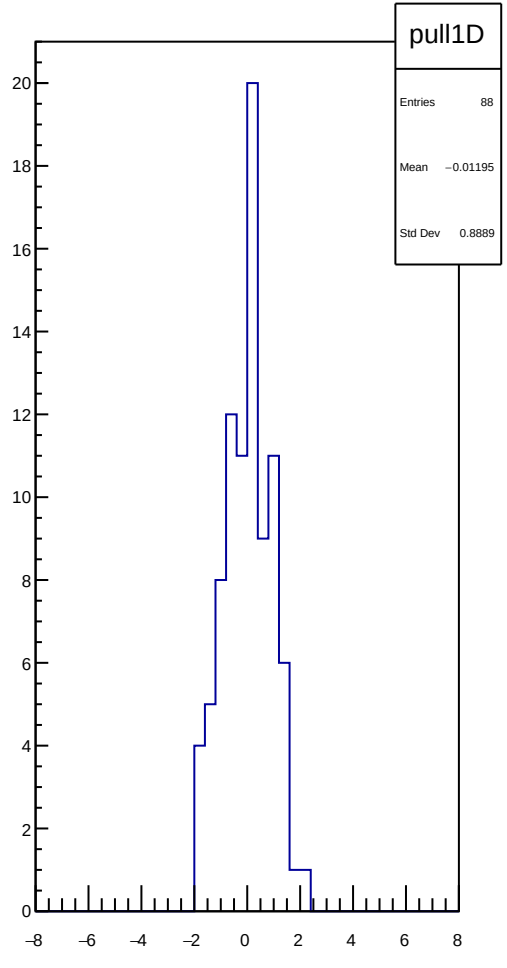

pull1D
Entries 88
Mean −0.01195
Std Dev 0.8889
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

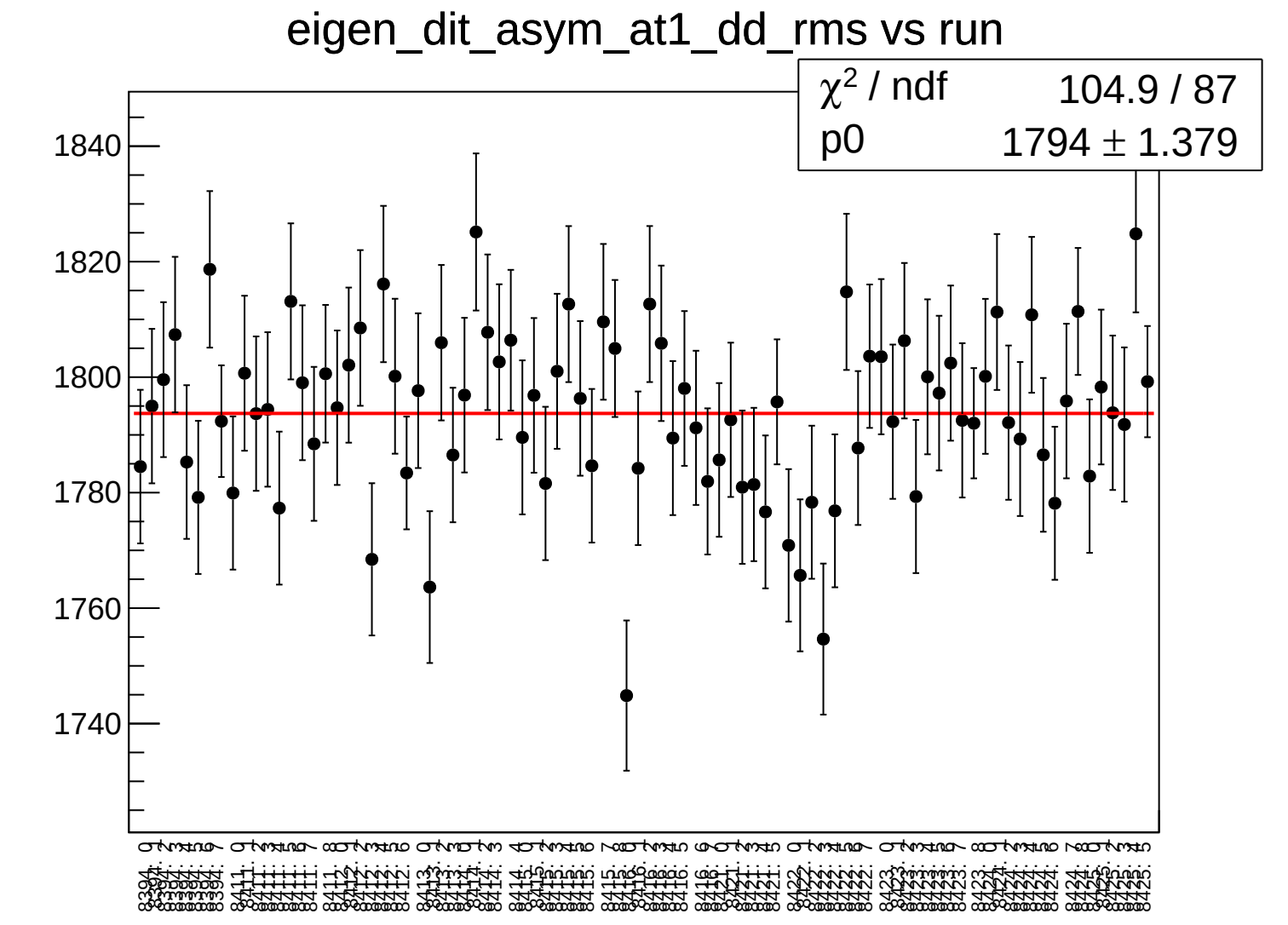

dit_asym_at1_dd_rms vs run
χ^2 / ndf 104.9 / 87
p0 1794 ± 1.379
1840
1820
1800
1780
1760
1740

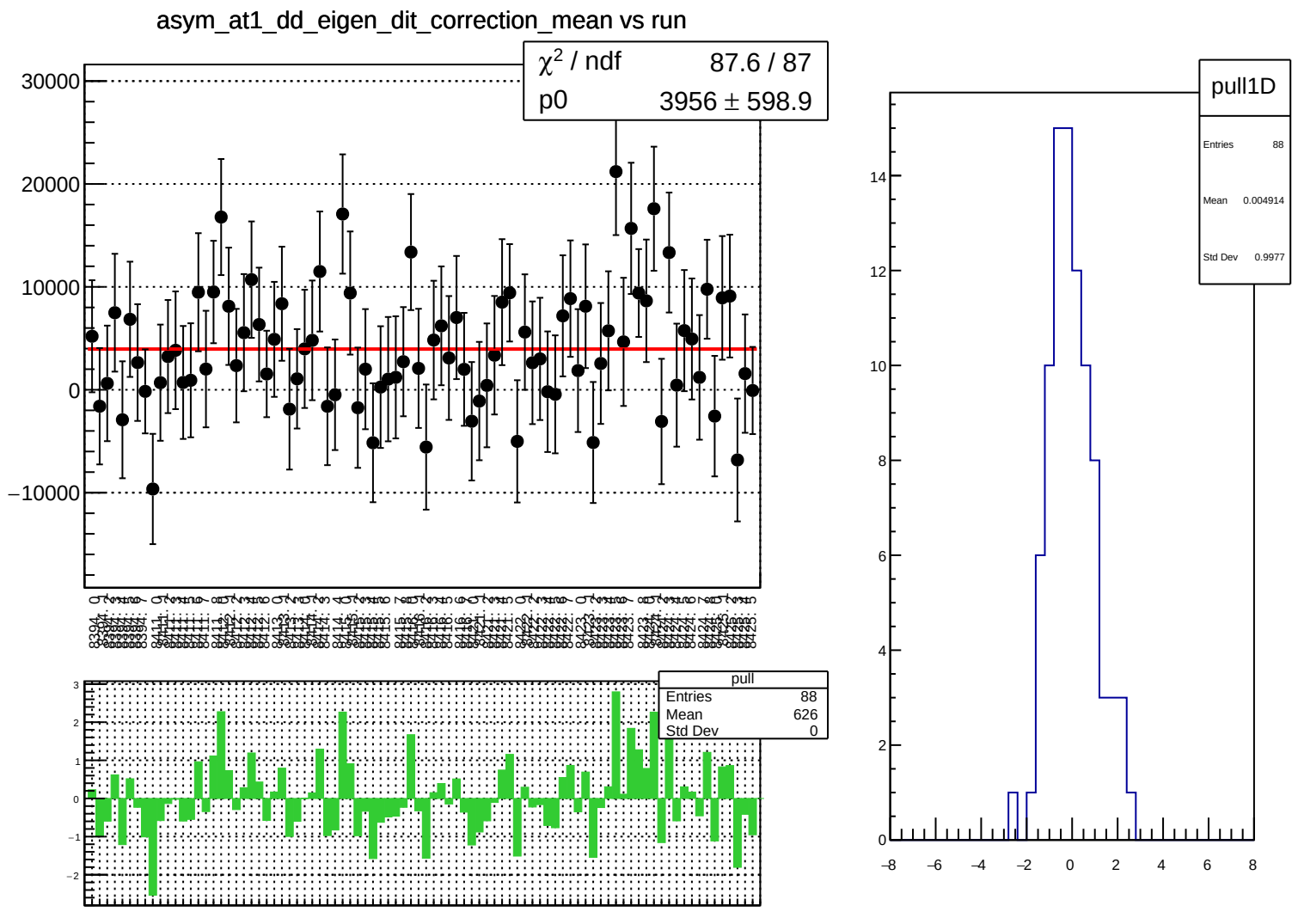

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 87.6 / 87
p0 3956 ± 598.9
30000
20000
10000
0
−10000
pull
Entries 88
Mean 626
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.004914
Std Dev 0.9977
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

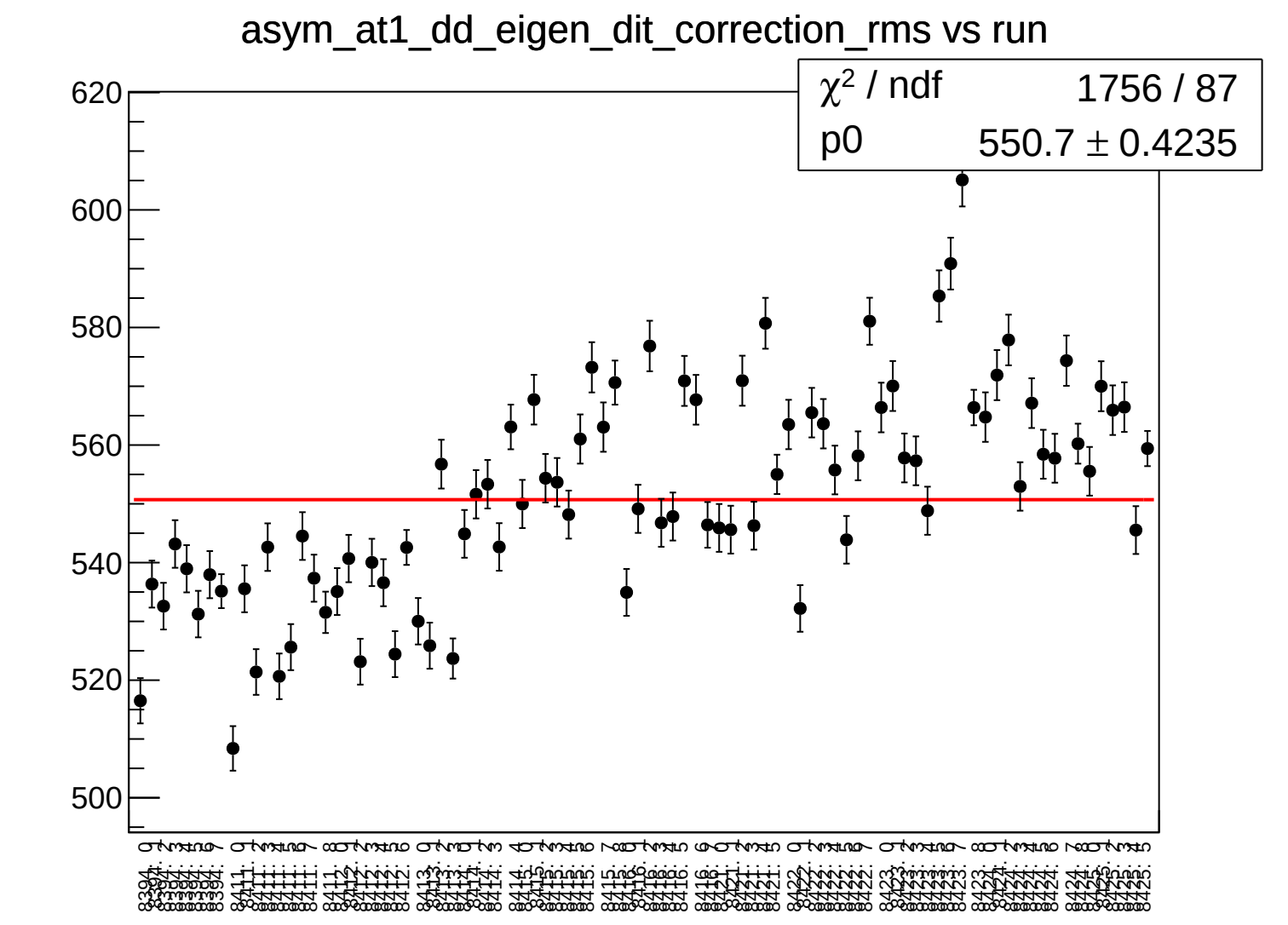

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 1756 / 87
p0 550.7 ± 0.4235
620
600
580
560
540
520
500

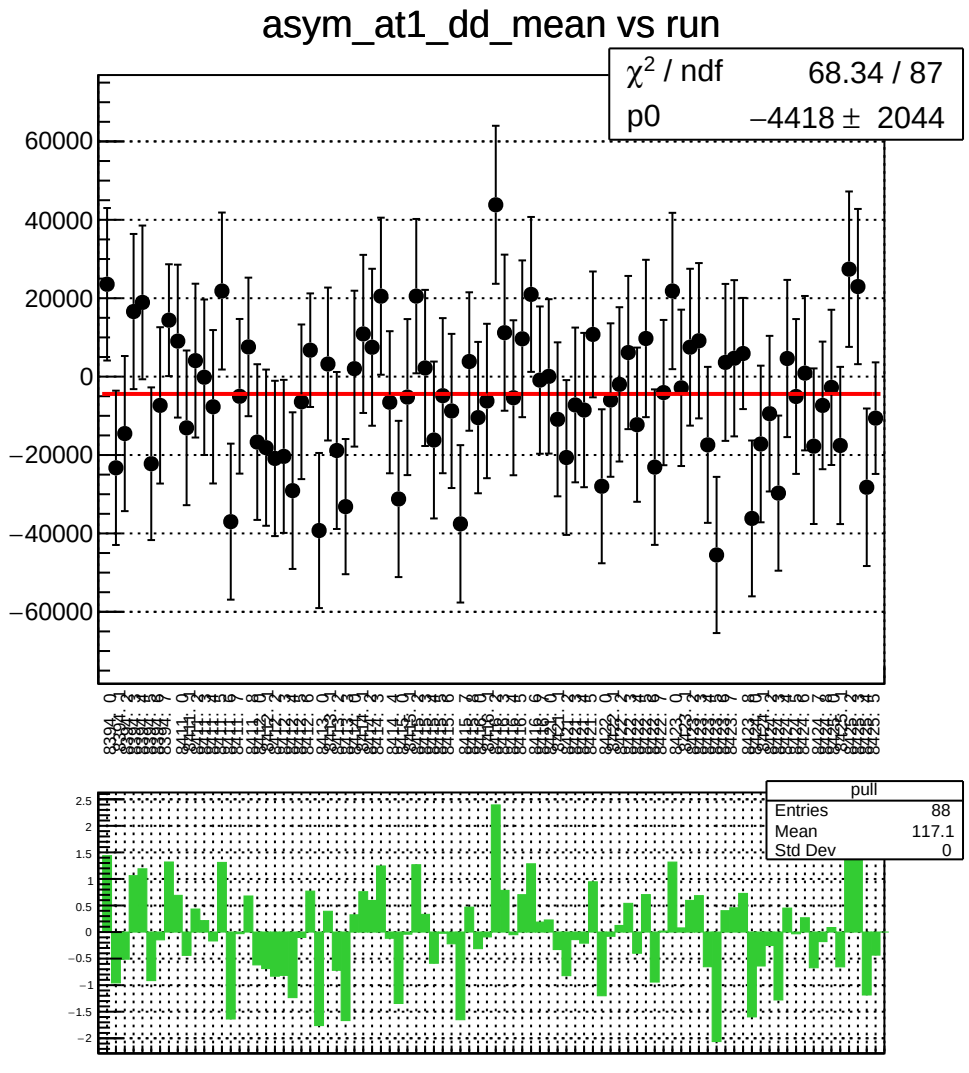

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 69.54 / 87
p0 −395.5 ± 1950
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 39.67
Std Dev 25.63
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

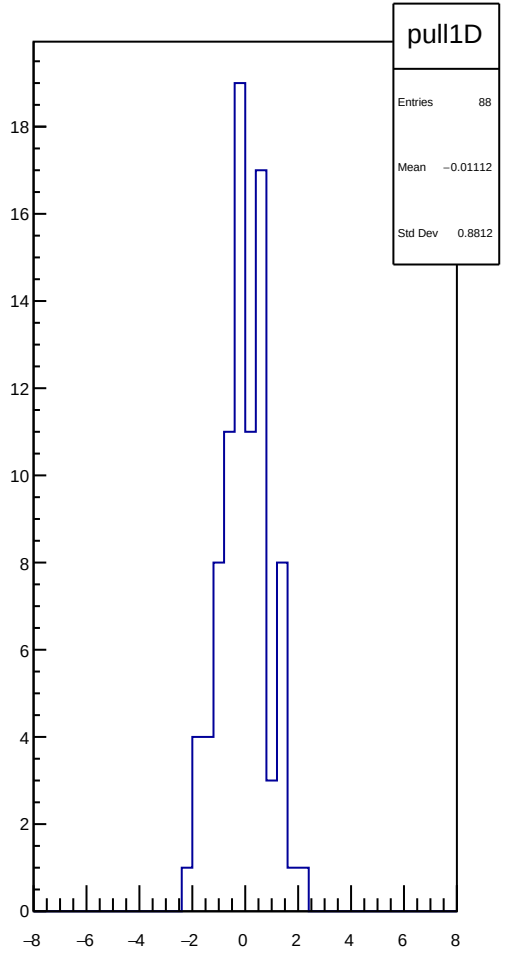

pull1D
Entries 88
Mean −0.01195
Std Dev 0.8889
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

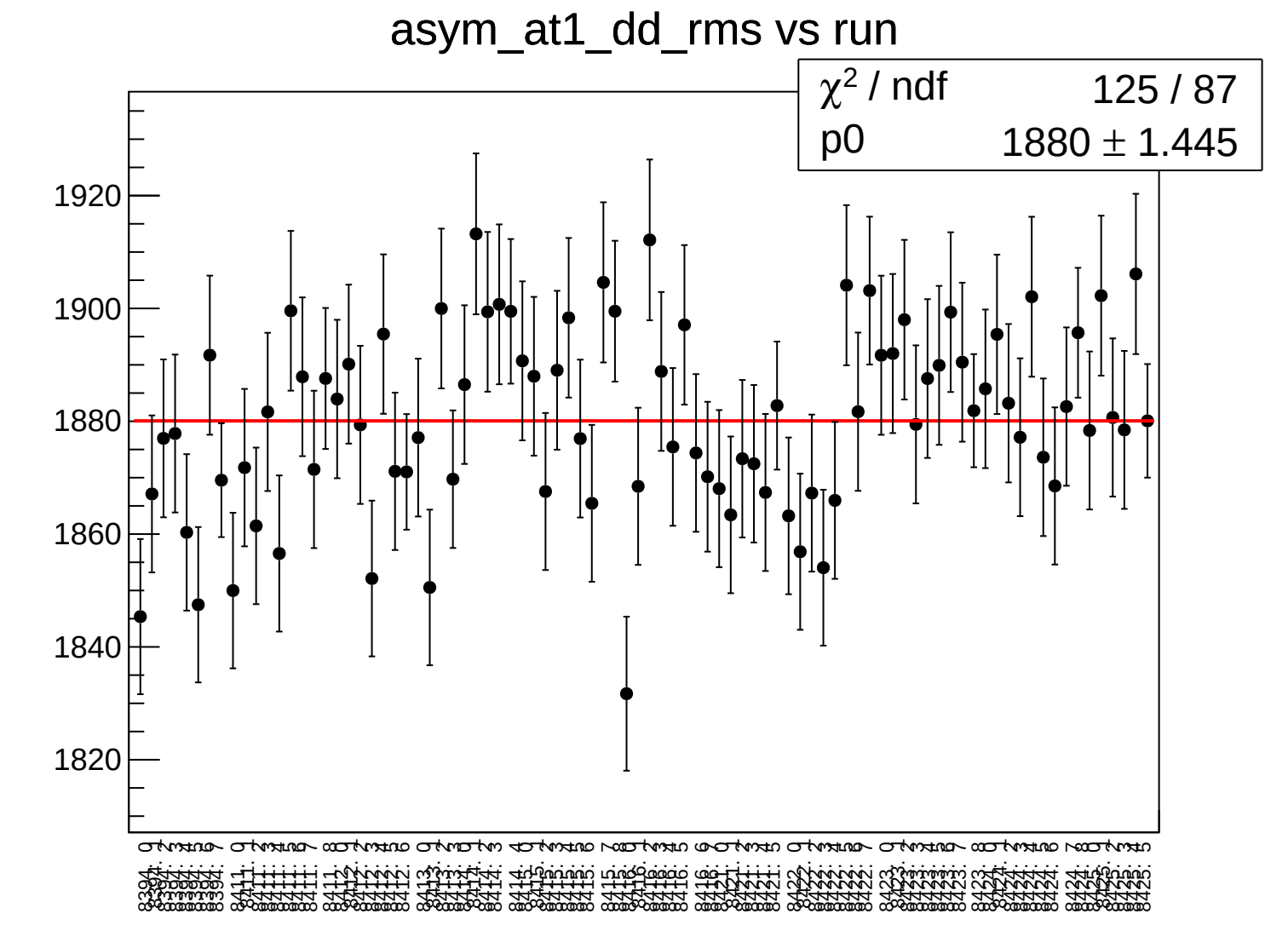

eigen_dit_asym_at1_dd_rms vs run
χ^2 / ndf 104.9 / 87
p0 1794 ± 1.379
1840
1820
1800
1780
1760
1740

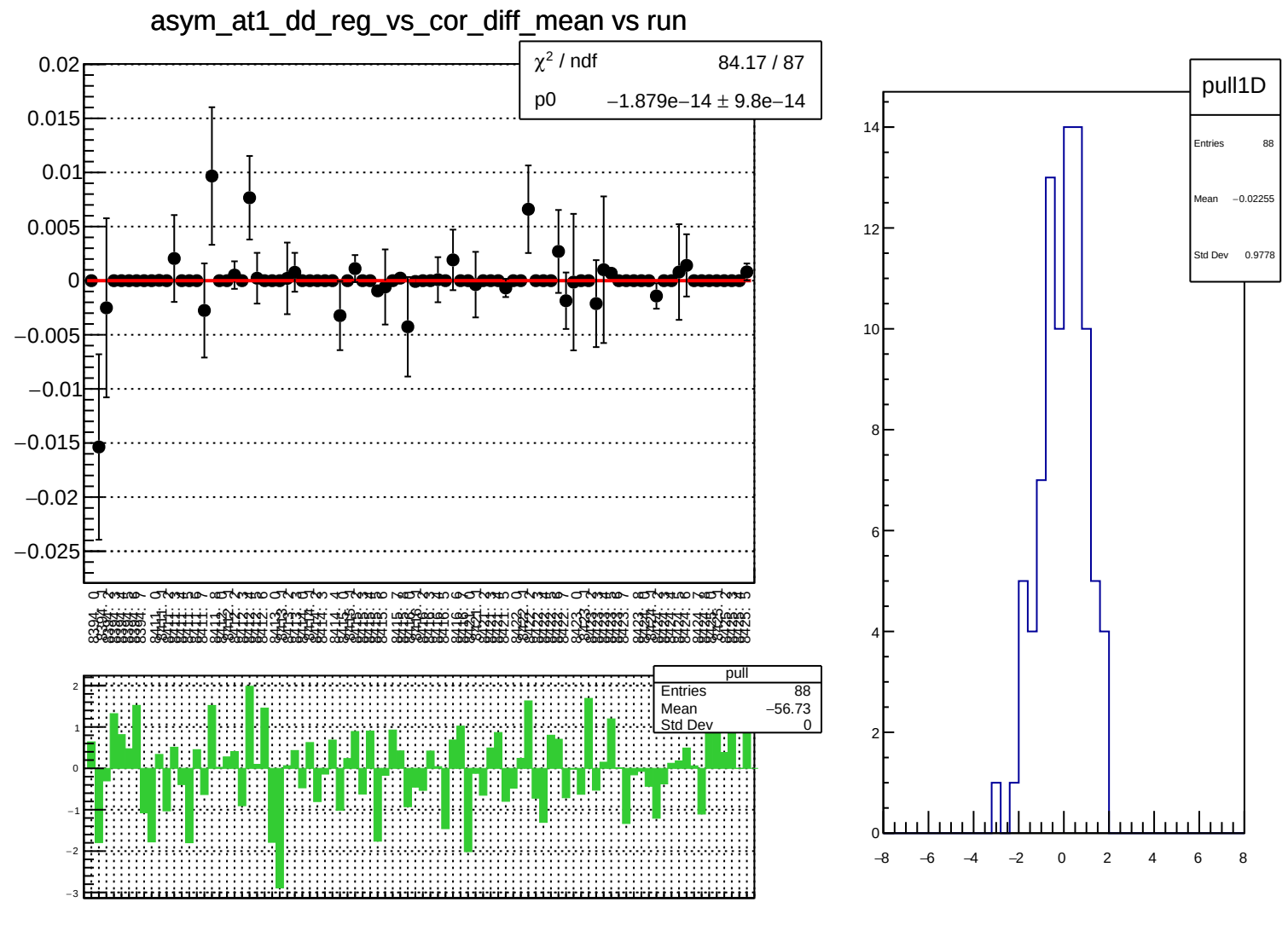

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 87.6 / 87
p0 3956 ± 598.9
30000
20000
10000
0
−10000
pull
Entries 88
Mean 626
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.004914
Std Dev 0.9977
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

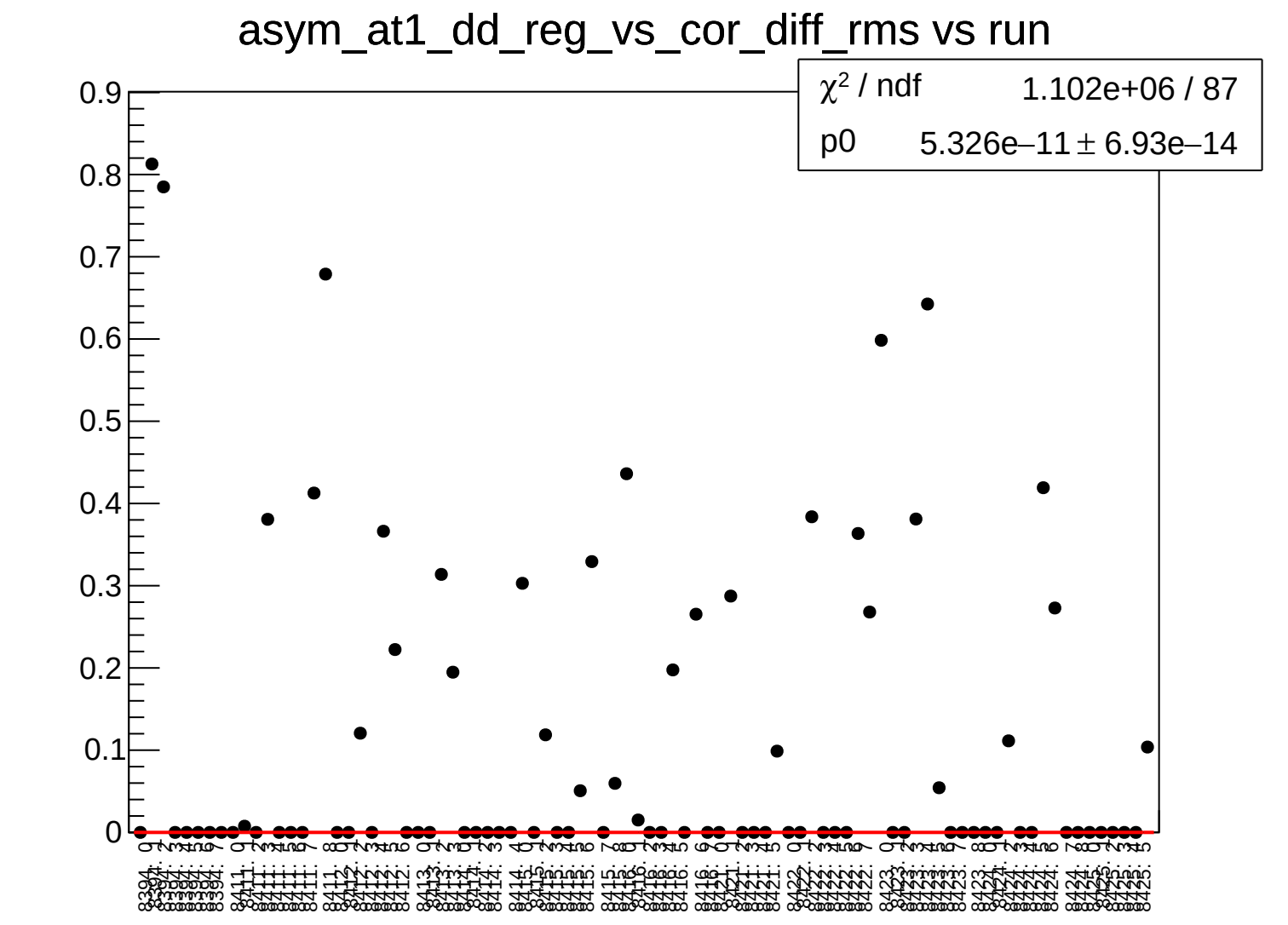

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1756 / 87
p0 550.7 ± 0.4235
620
600
580
560
540
520
500

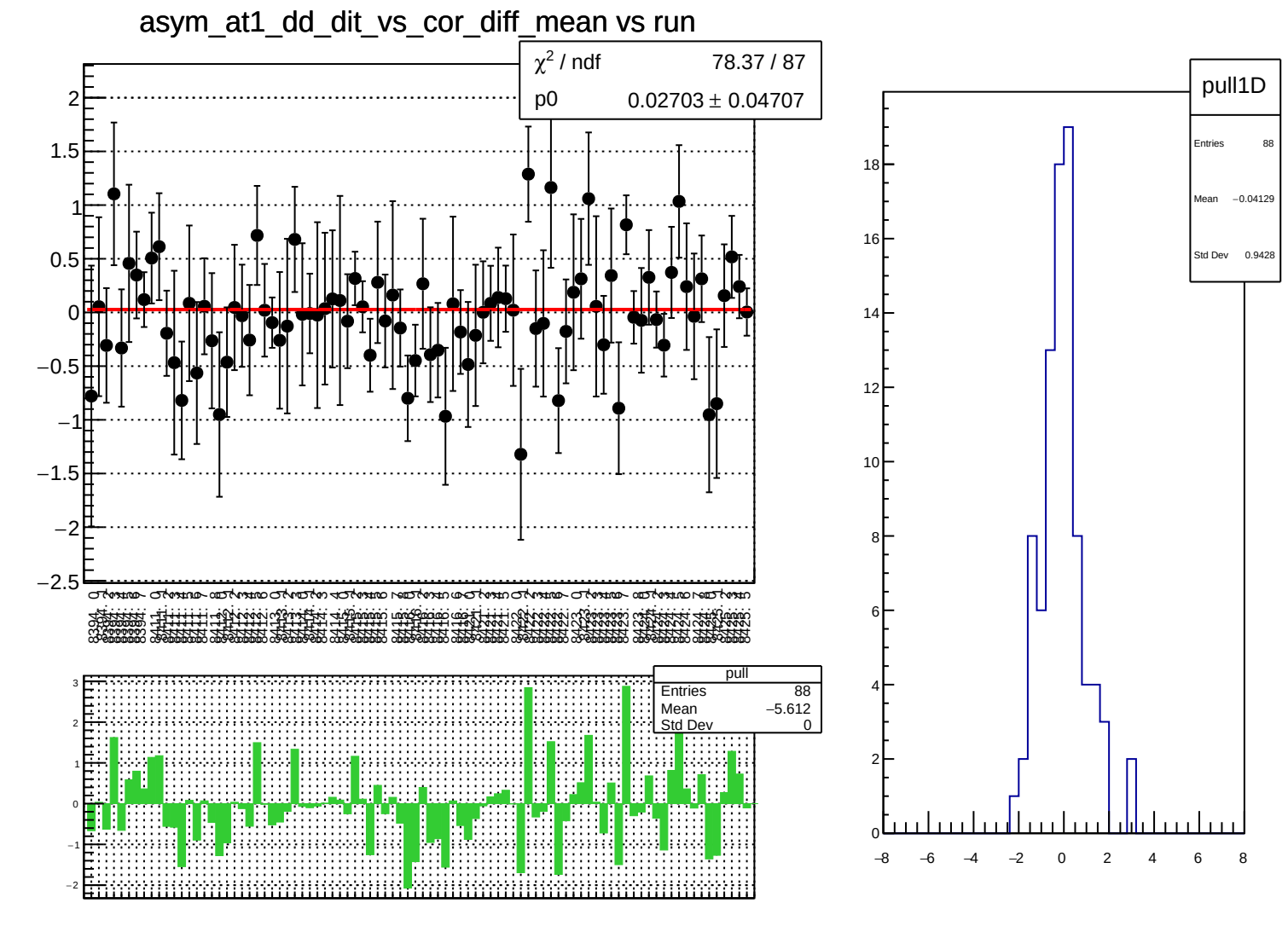

asym_at1_dd_mean vs run
χ² / ndf 68.34 / 87
p0 −4418 ± 2044
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 117.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

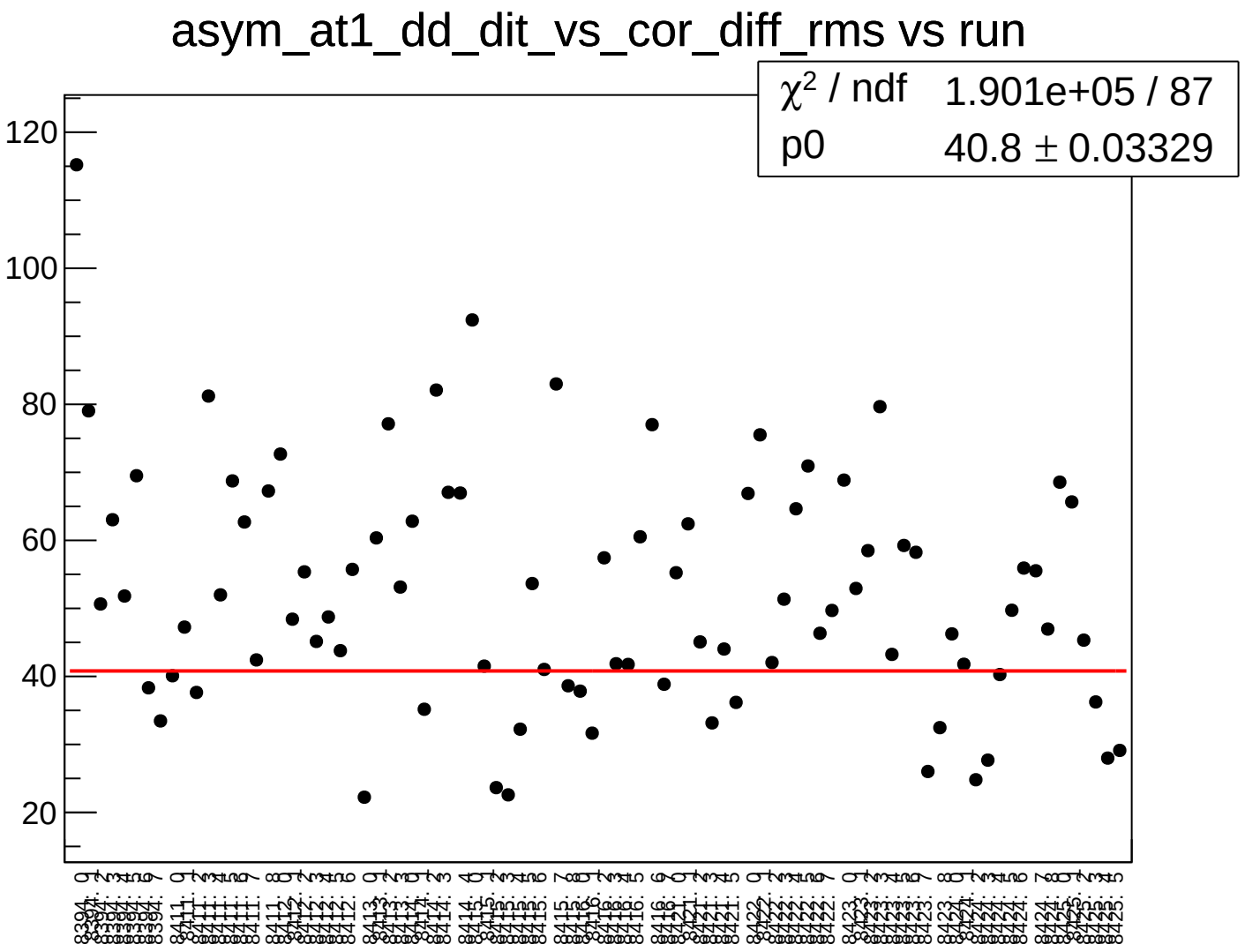

pull1D
Entries 88
Mean −0.01112
Std Dev 0.8812
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

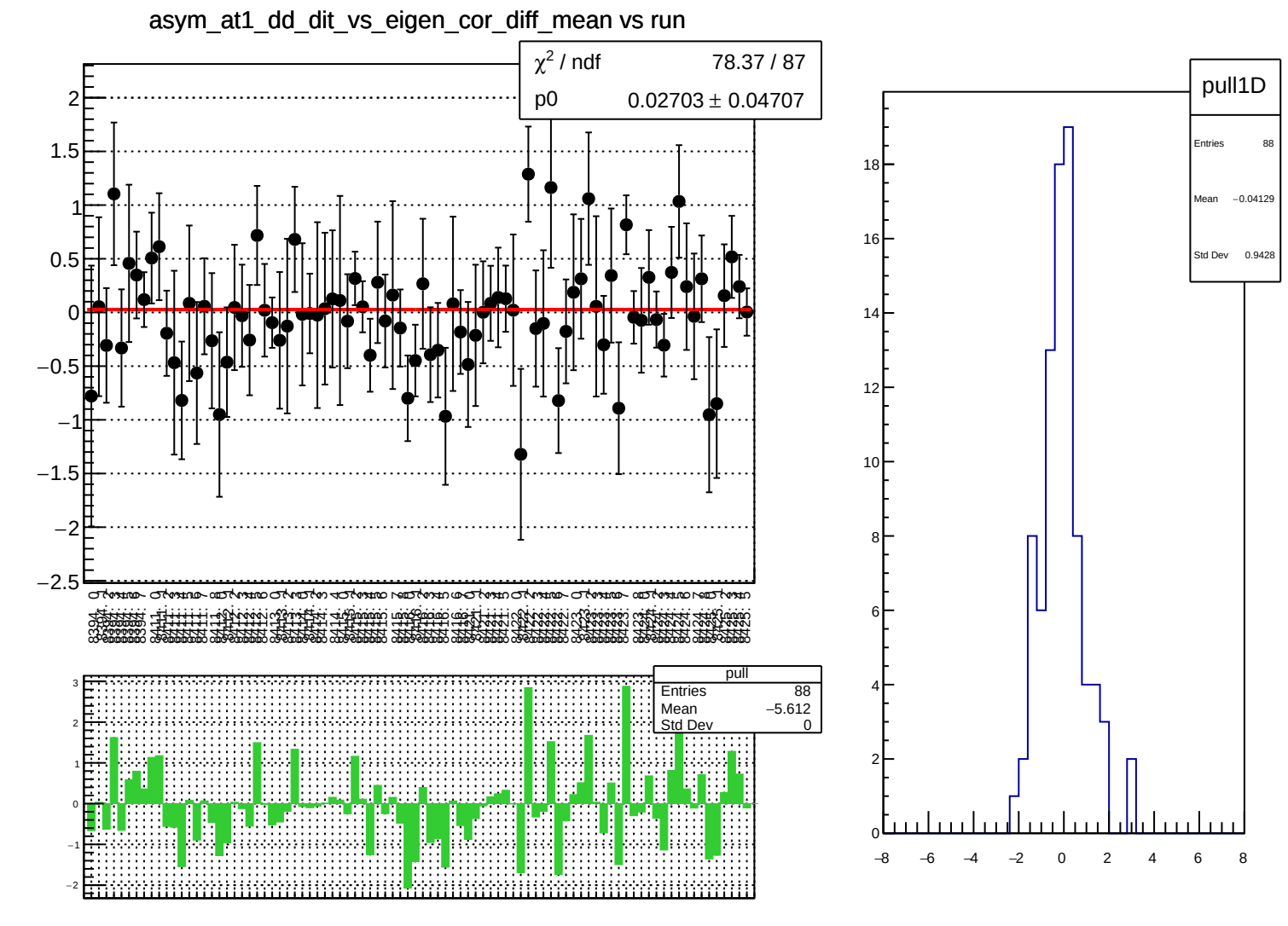

asym_at1_dd_rms vs run
χ^2 / ndf 125 / 87
p0 1880 ± 1.445
1920
1900
1880
1860
1840
1820

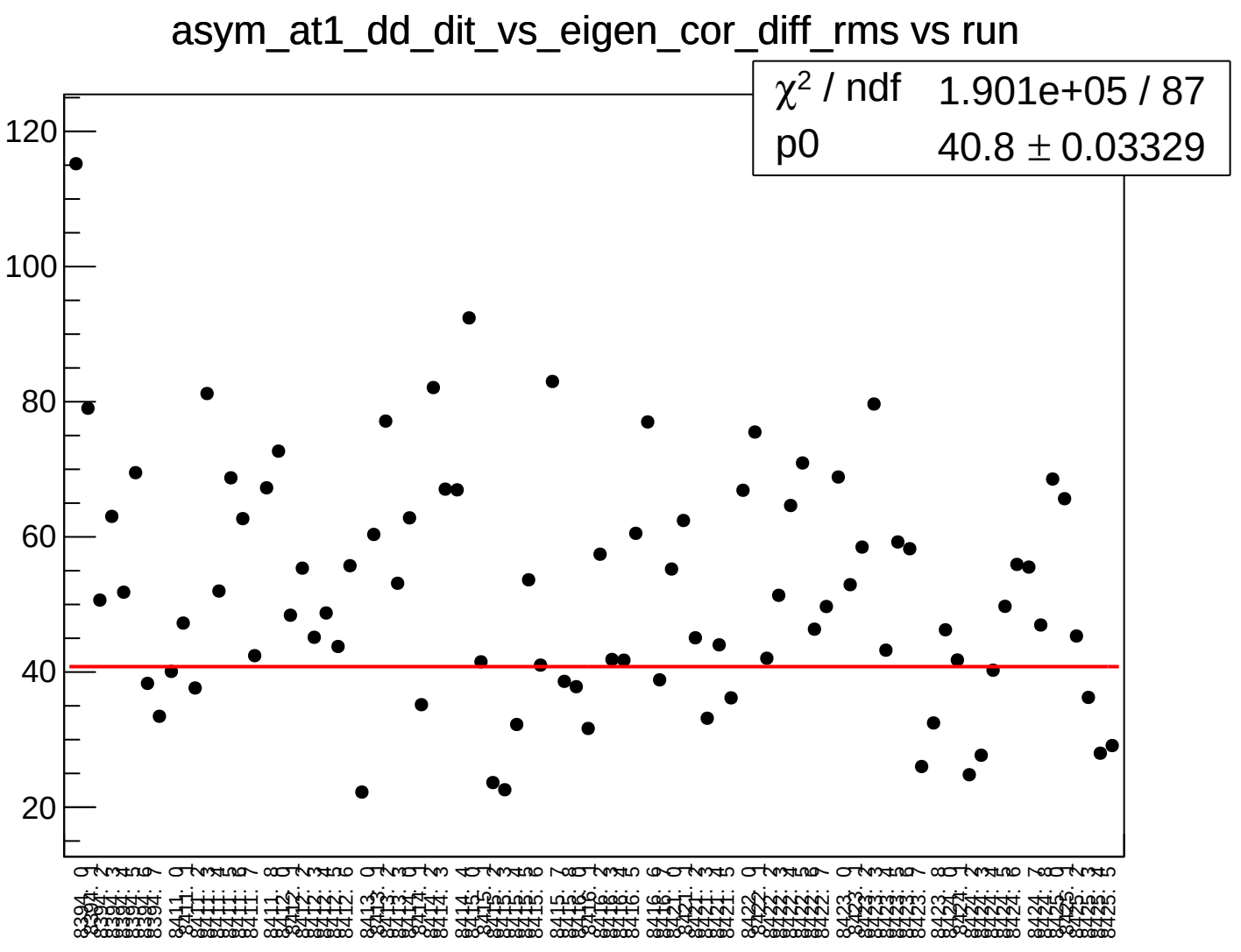

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.17 / 87
p0 −1.879e−14 ± 9.8e−14
pull
Entries 88
Mean −56.73
Std Dev 0
pull1D
Entries 88
Mean −0.02255
Std Dev 0.9778

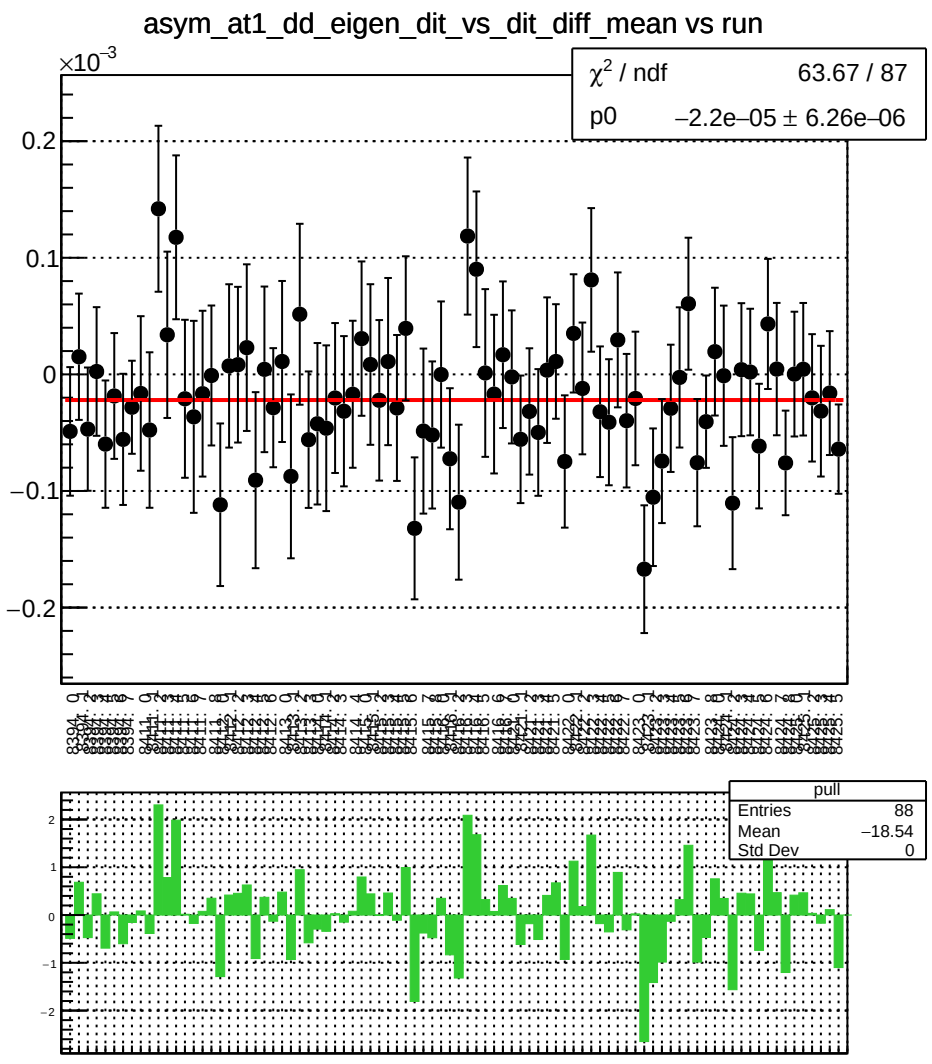

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.102e+06 / 87
p0 5.326e−11 ± 6.93e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

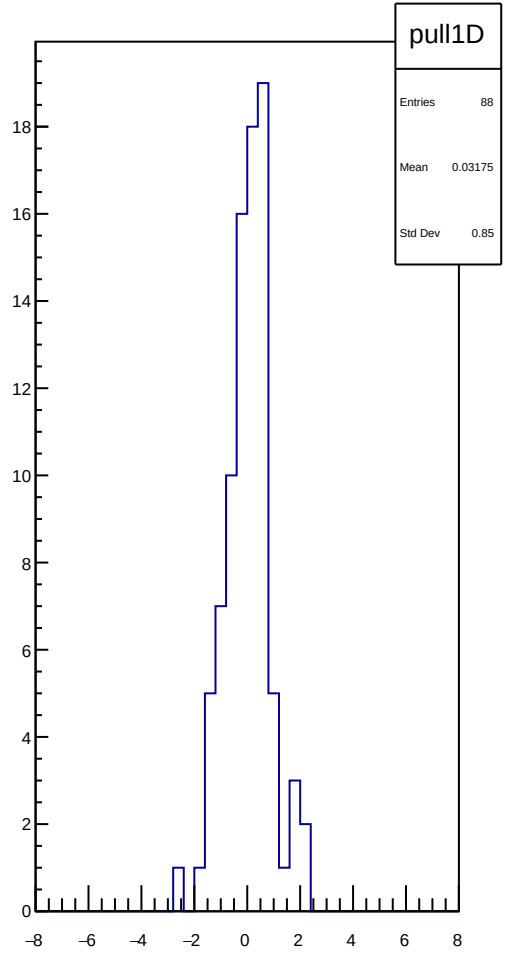

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.37 / 87
p0 0.02703 ± 0.04707
pull
Entries 88
Mean −5.612
Std Dev 0
pull1D
Entries 88
Mean −0.04129
Std Dev 0.9428

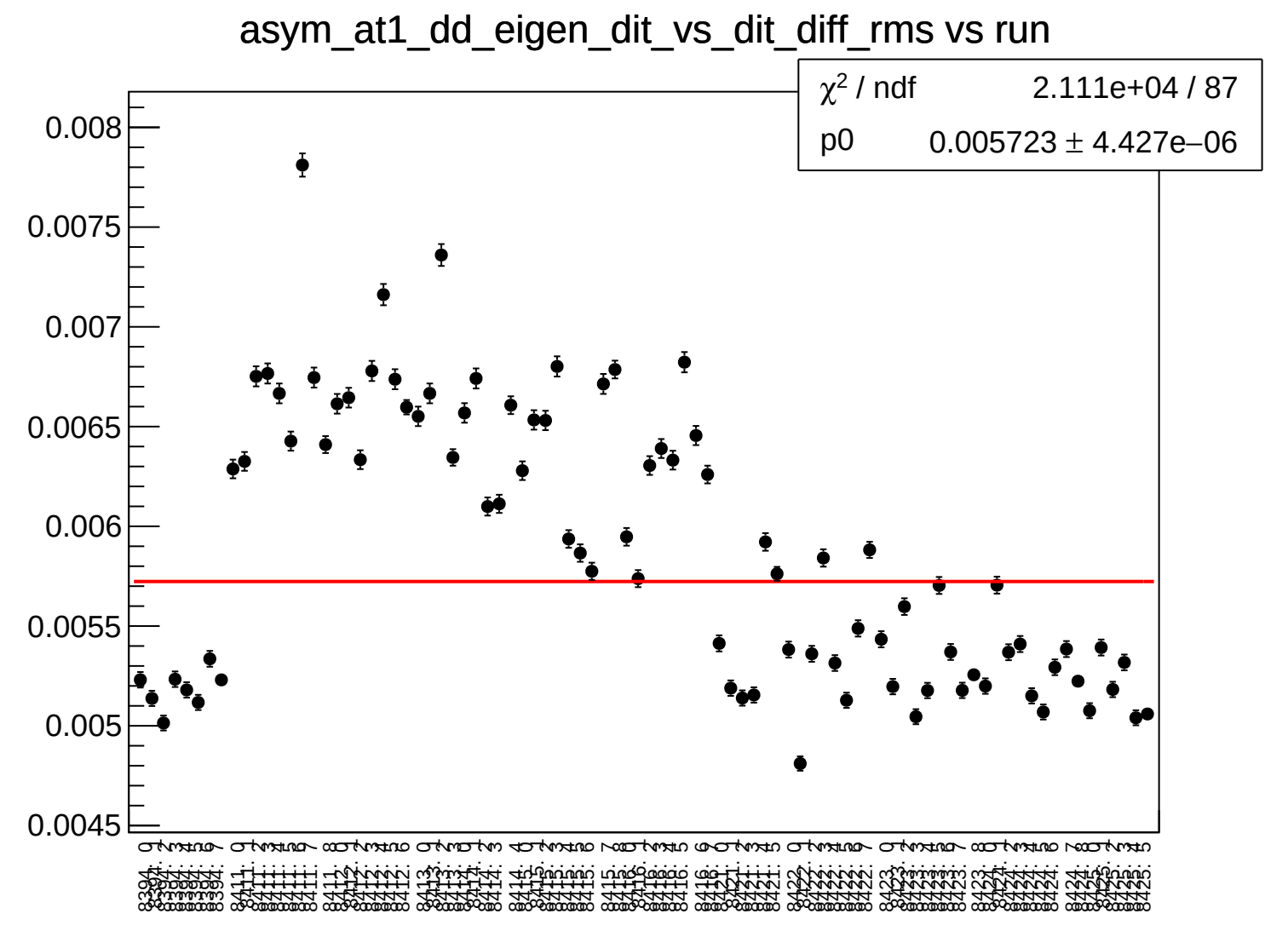

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.901e+05 / 87
p0 40.8 ± 0.03329
120
100
80
60
40
20

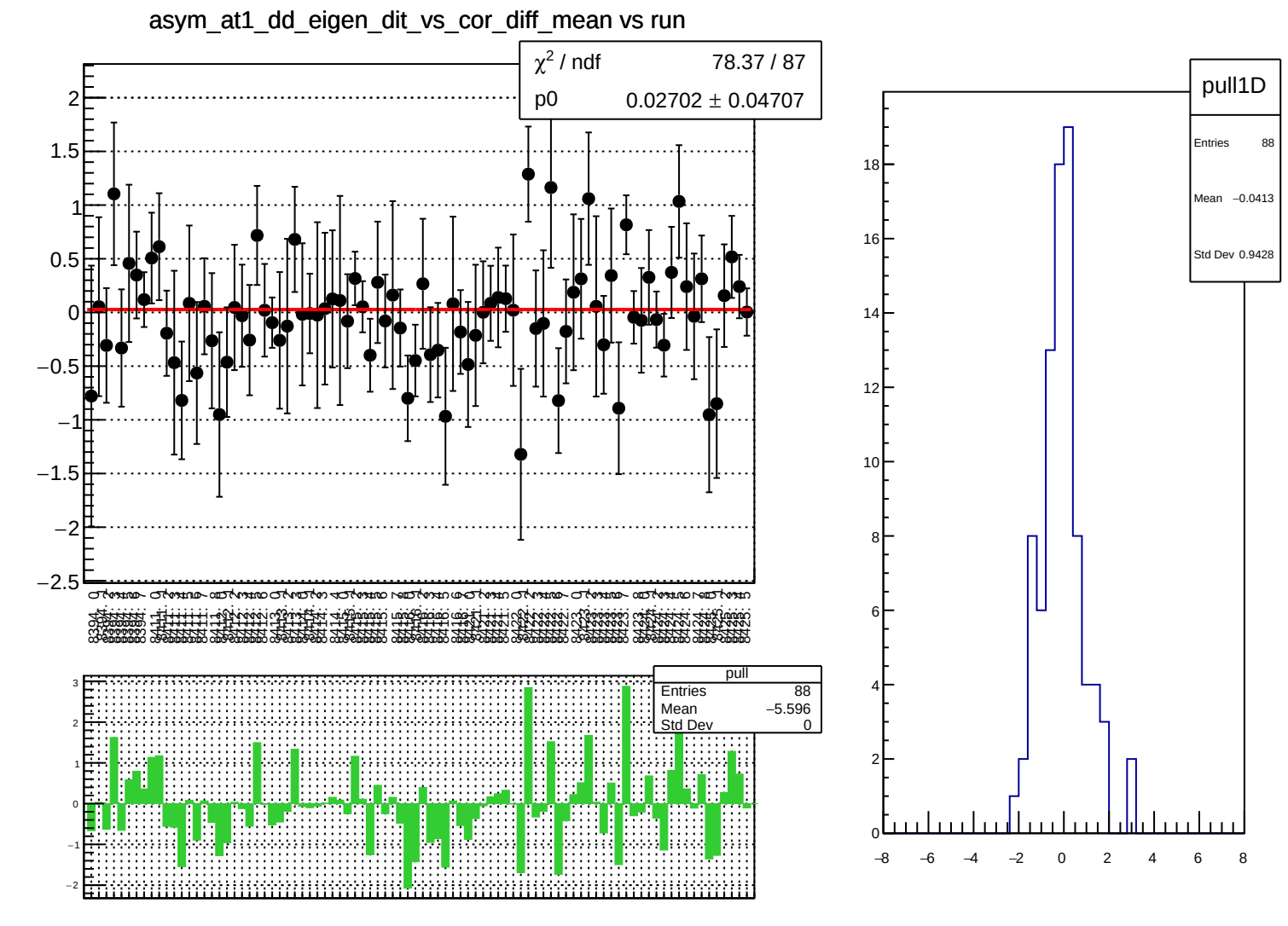

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.37 / 87
p0 0.02703 ± 0.04707
pull
Entries 88
Mean −5.612
Std Dev 0
pull1D
Entries 88
Mean −0.04129
Std Dev 0.9428

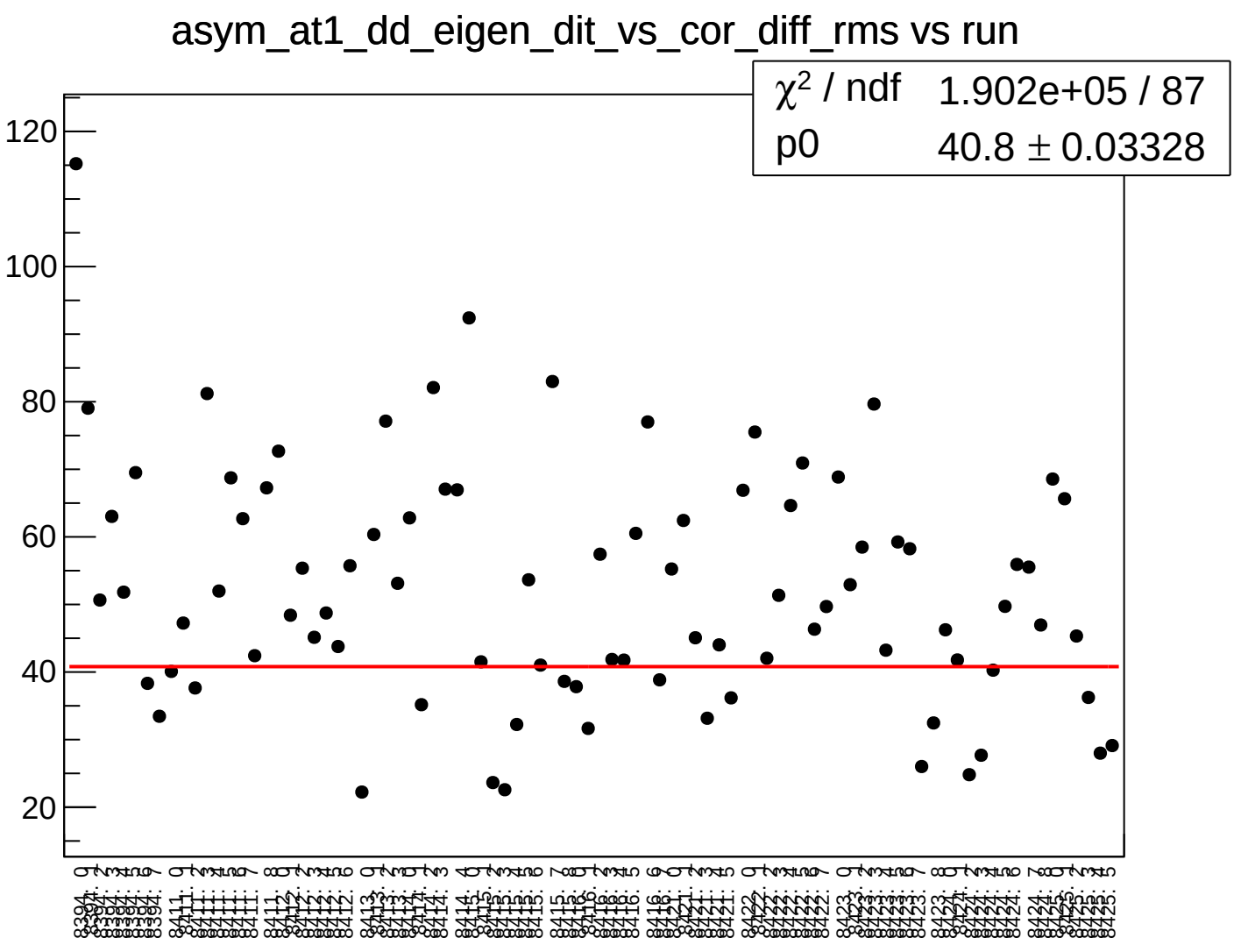

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.901e+05 / 87
p0 40.8 ± 0.03329
120
100
80
60
40
20

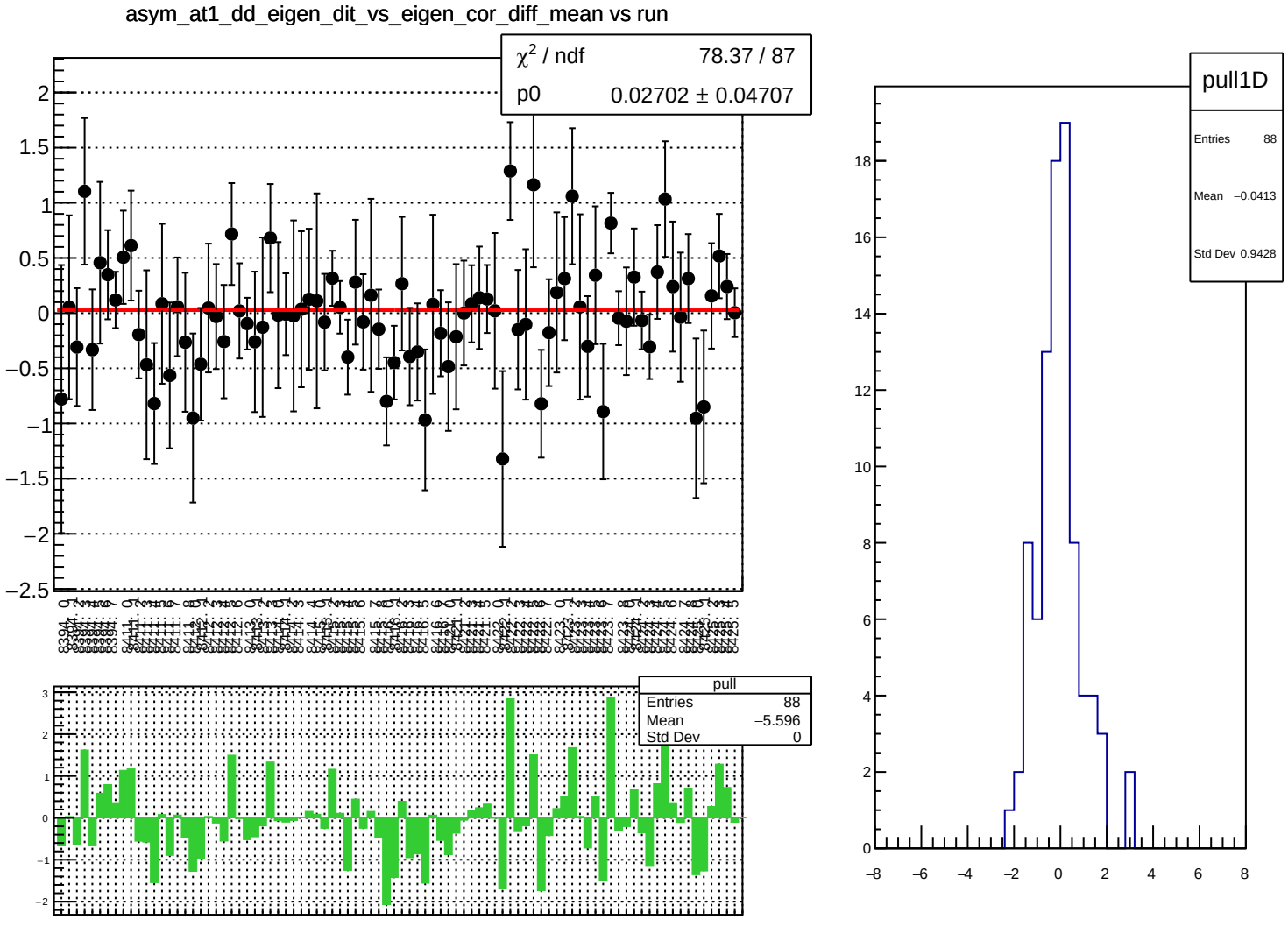

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 63.67 / 87
p0 −2.2e−05 ± 6.26e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 88
Mean −18.54
Std Dev 0
2
1
0
−1
−2

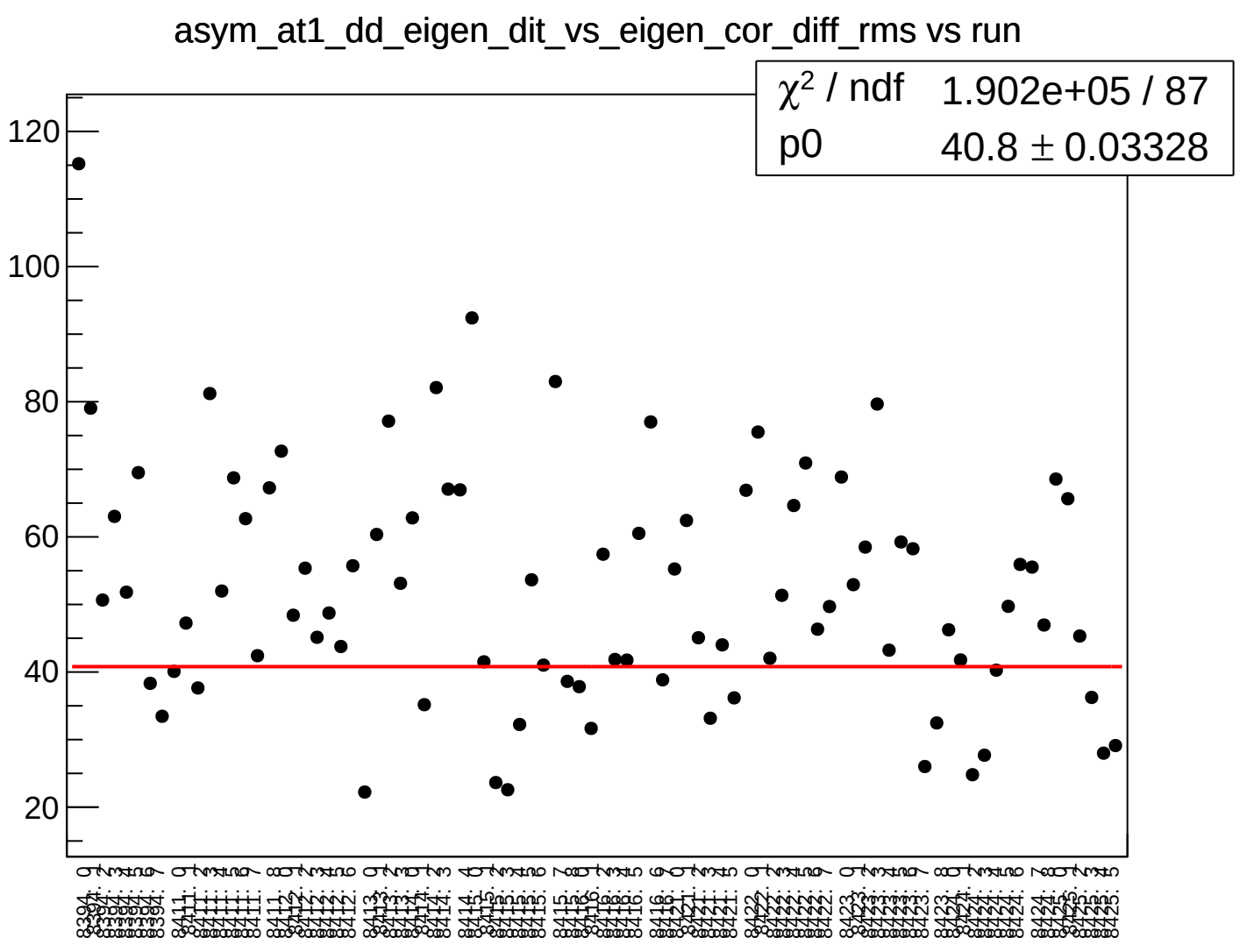

pull1D
Entries 88
Mean 0.03175
Std Dev 0.85
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

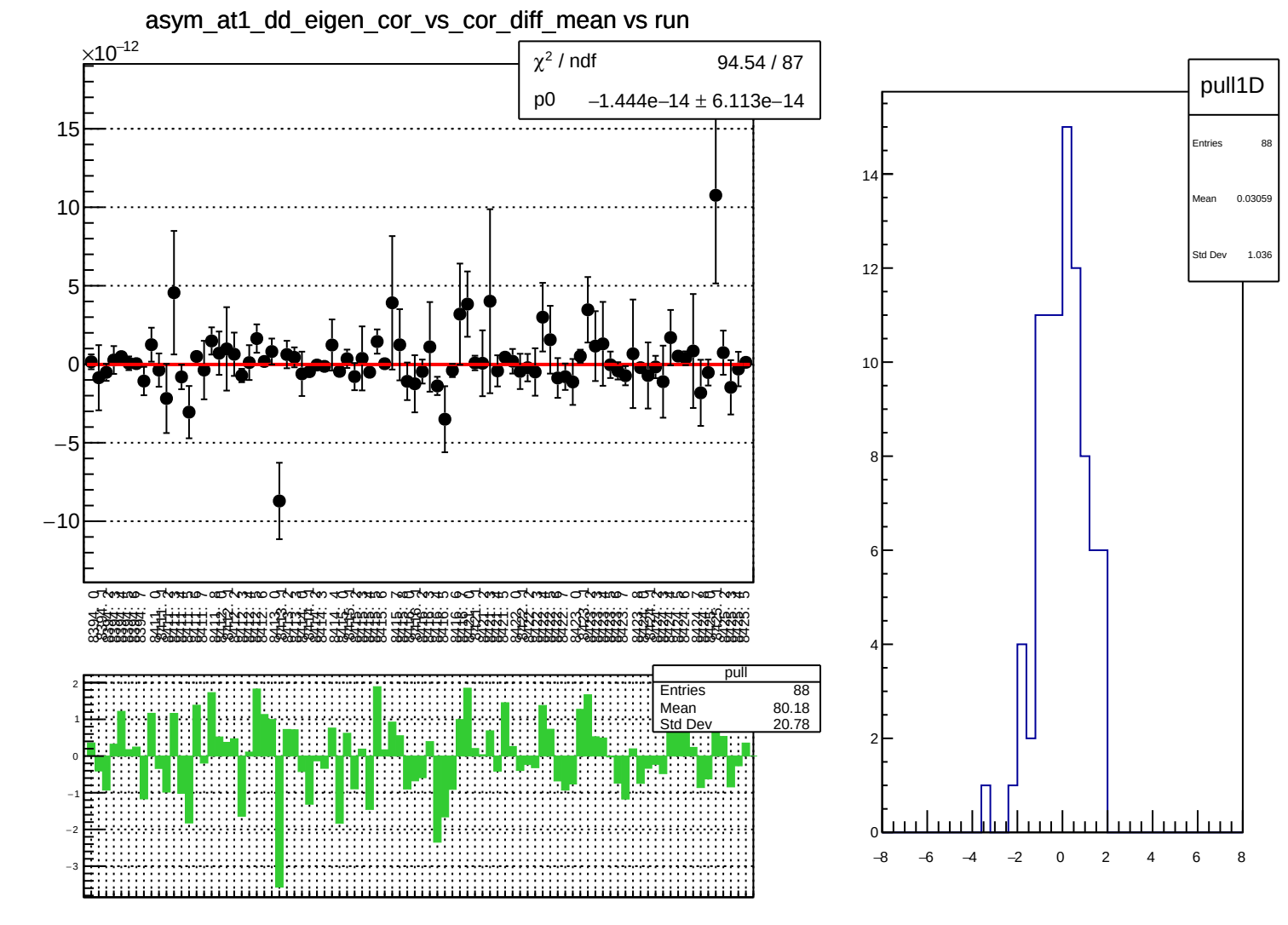

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.111e+04 / 87
p0 0.005723 ± 4.427e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045

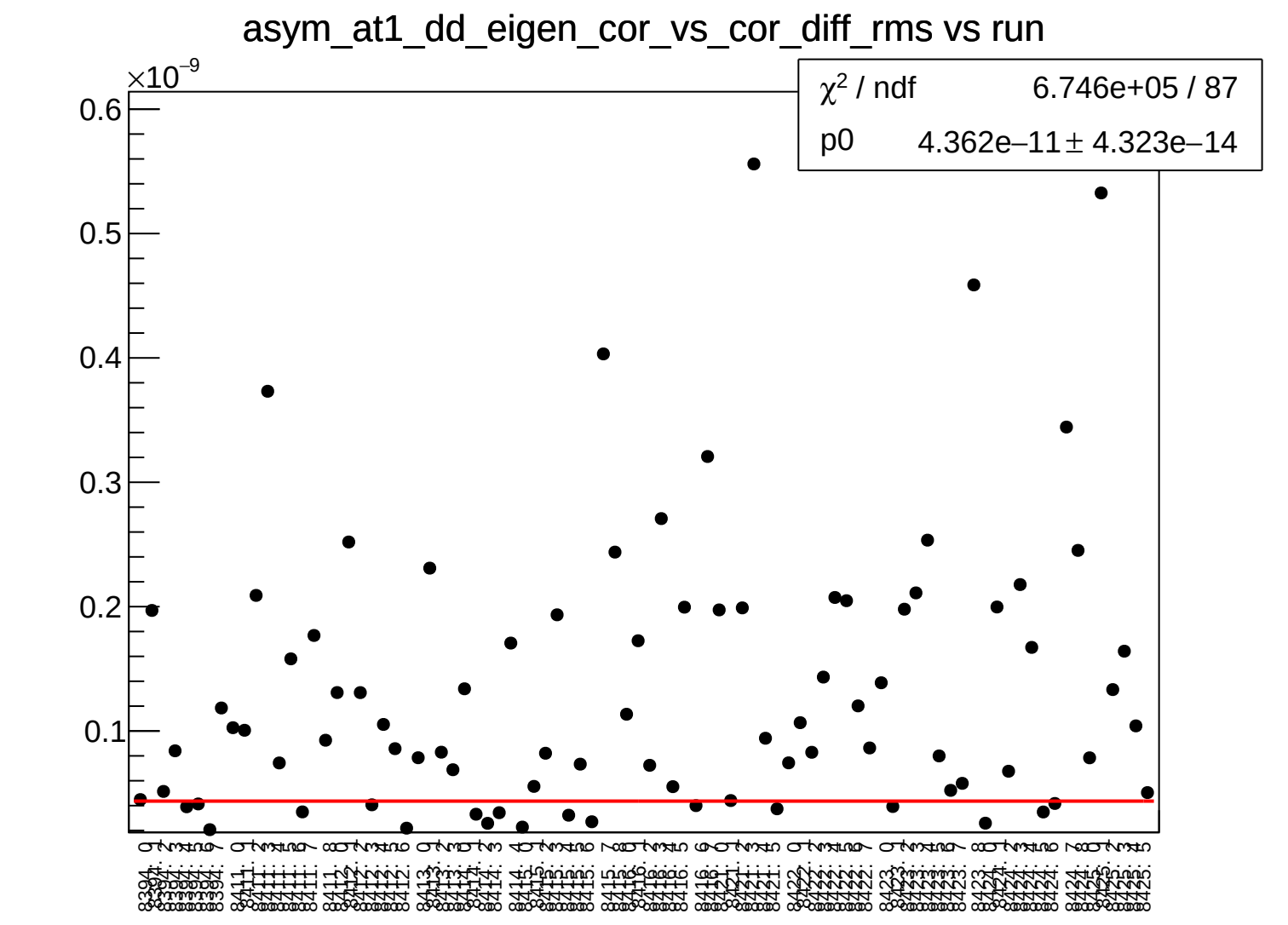

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.37 / 87
p0 0.02702 ± 0.04707
pull
Entries 88
Mean −5.596
Std Dev 0
pull1D
Entries 88
Mean −0.0413
Std Dev 0.9428

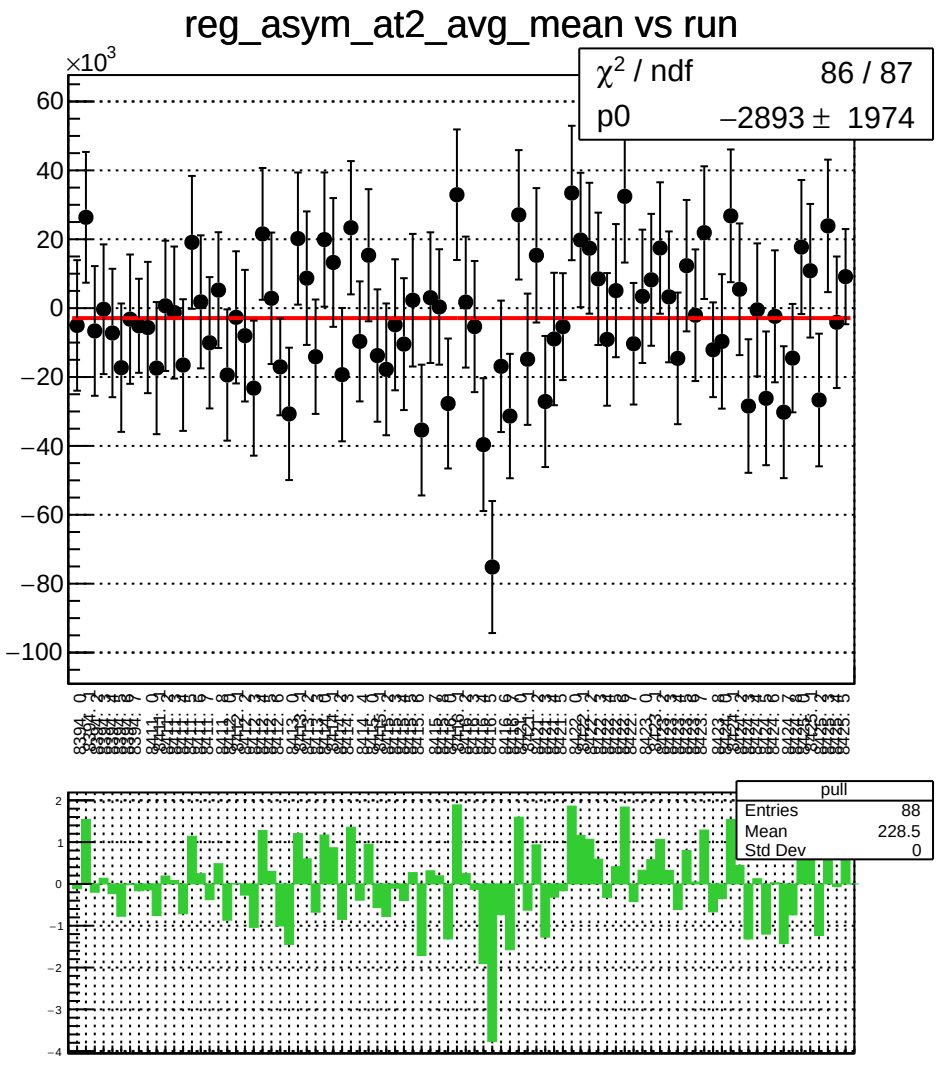

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.902e+05 / 87
p0 40.8 ± 0.03328
120
100
80
60
40
20

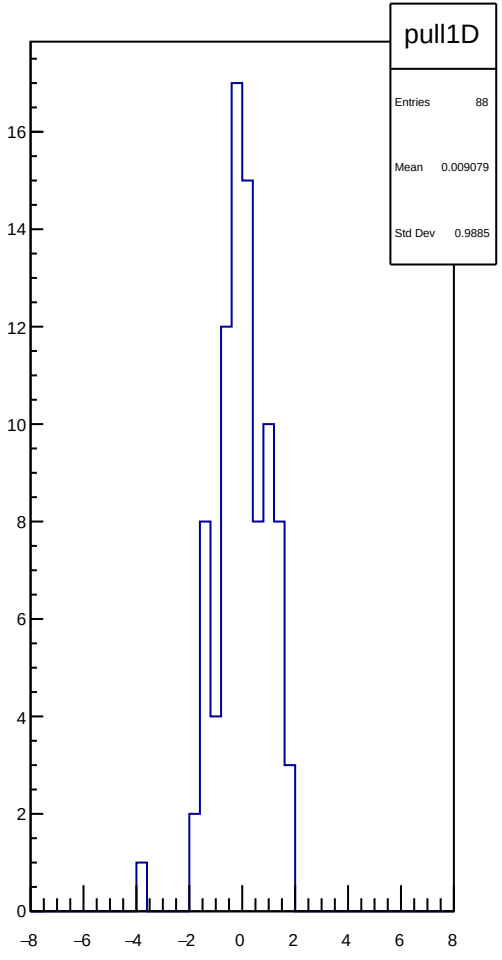

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.37 / 87
p0 0.02702 ± 0.04707
pull
Entries 88
Mean −5.596
Std Dev 0
pull1D
Entries 88
Mean −0.0413
Std Dev 0.9428

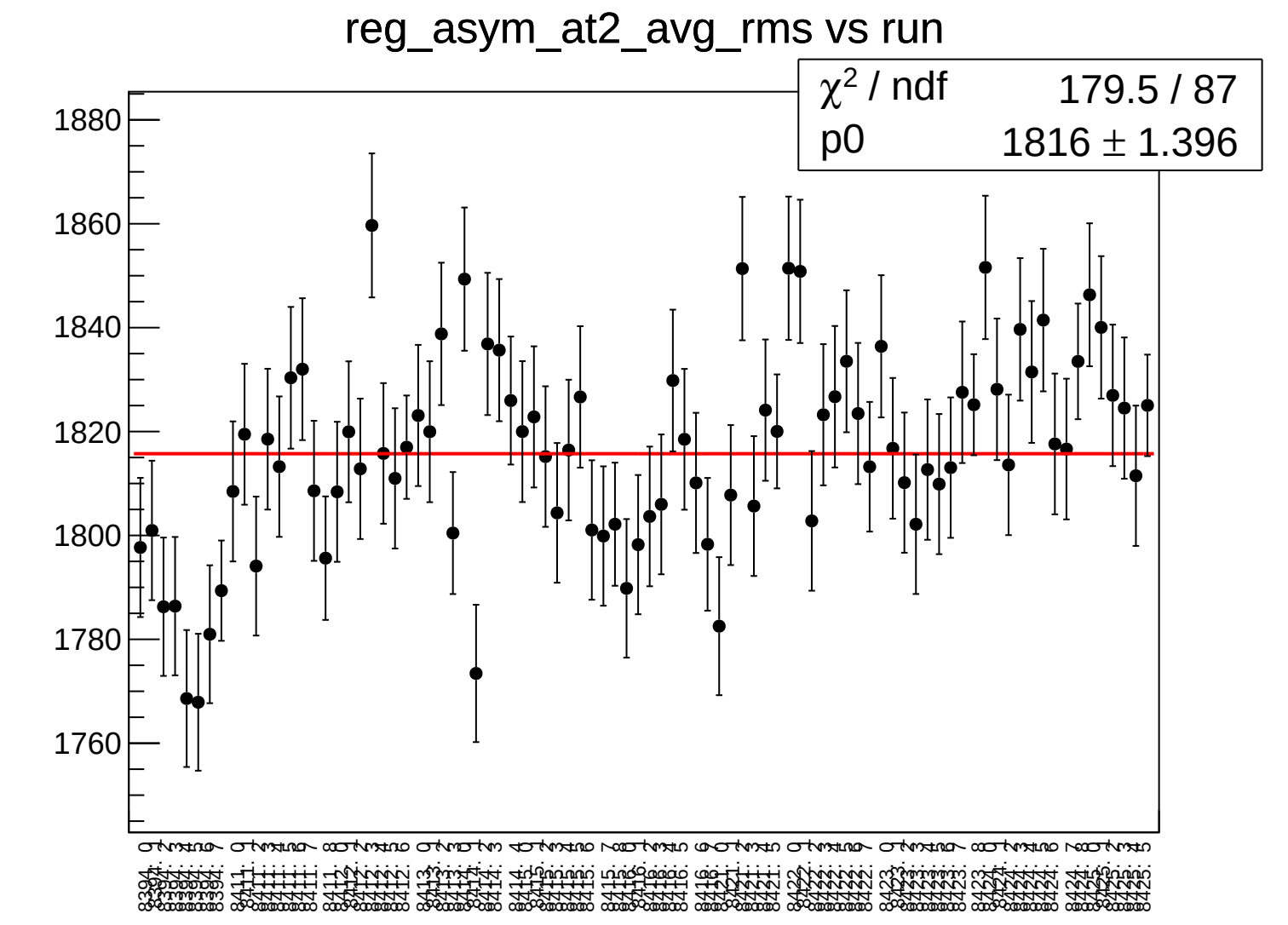

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.902e+05 / 87
p0 40.8 ± 0.03328
120
100
80
60
40
20

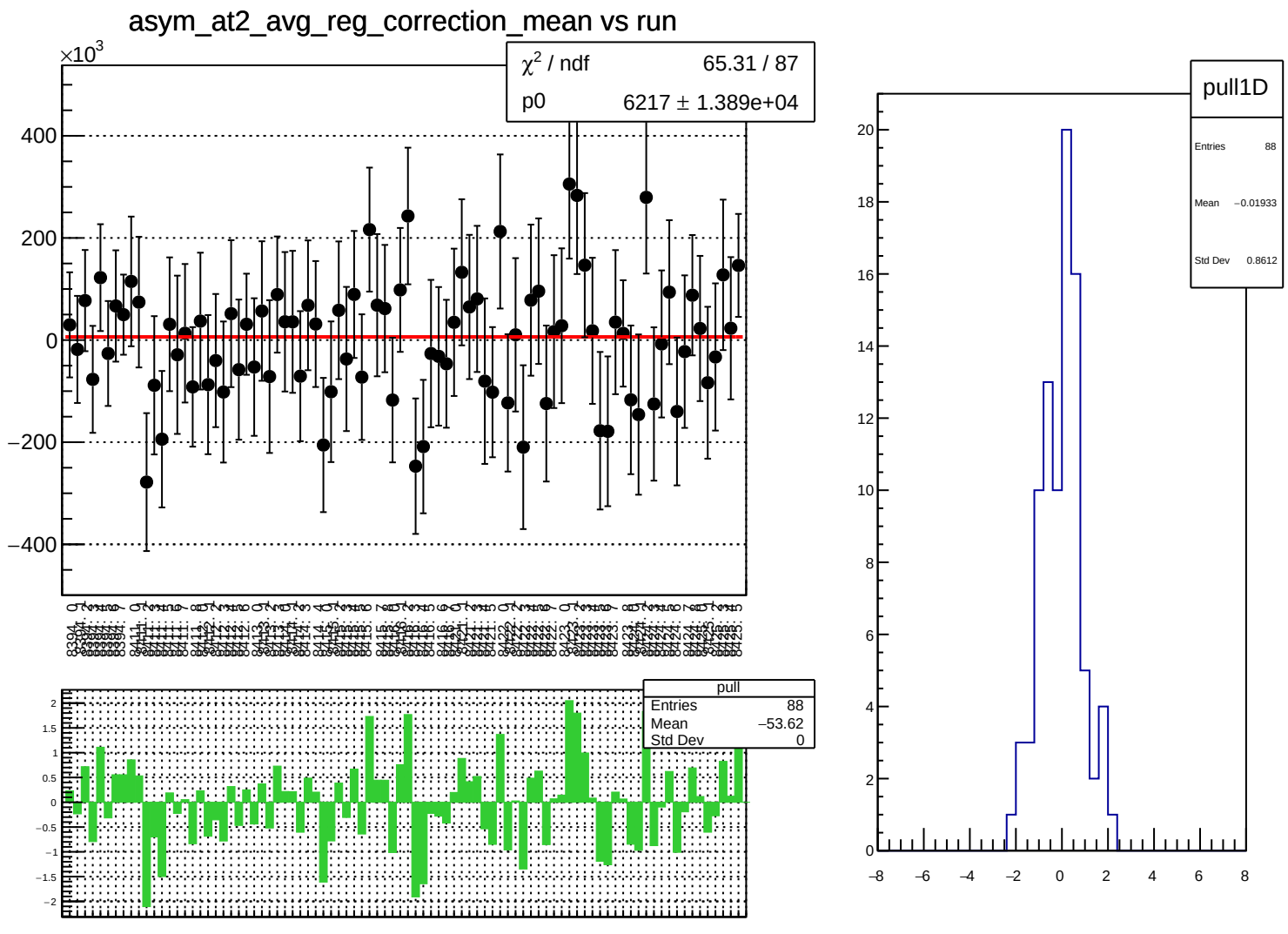

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 94.54 / 87
p0 −1.444e−14 ± 6.113e−14
15
10
5
0
−5
−10
pull
Entries 88
Mean 80.18
Std Dev 20.78
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.03059
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

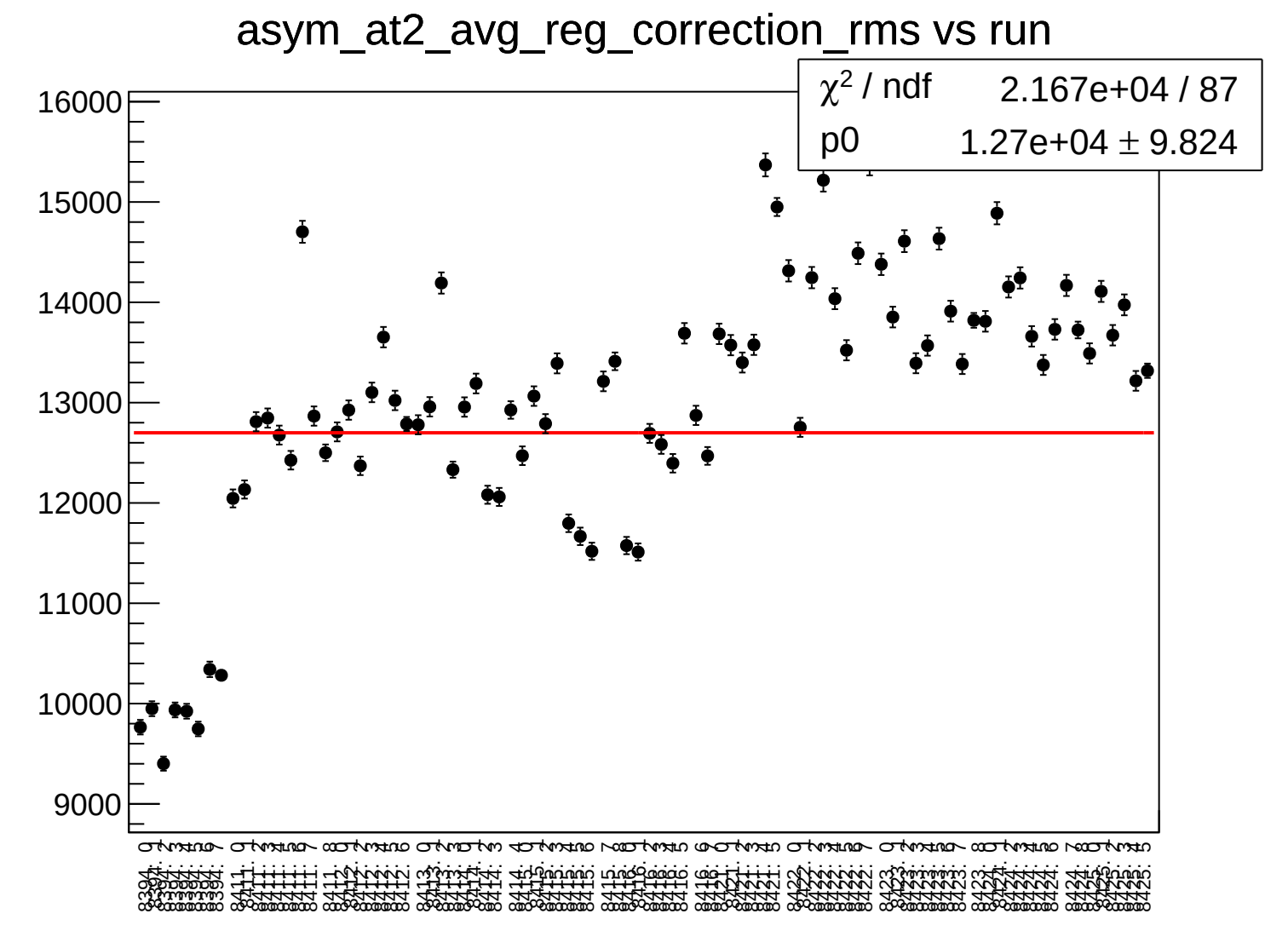

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.746e+05 / 87
p0 4.362e−11 ± 4.323e−14
0.6
0.5
0.4
0.3
0.2
0.1

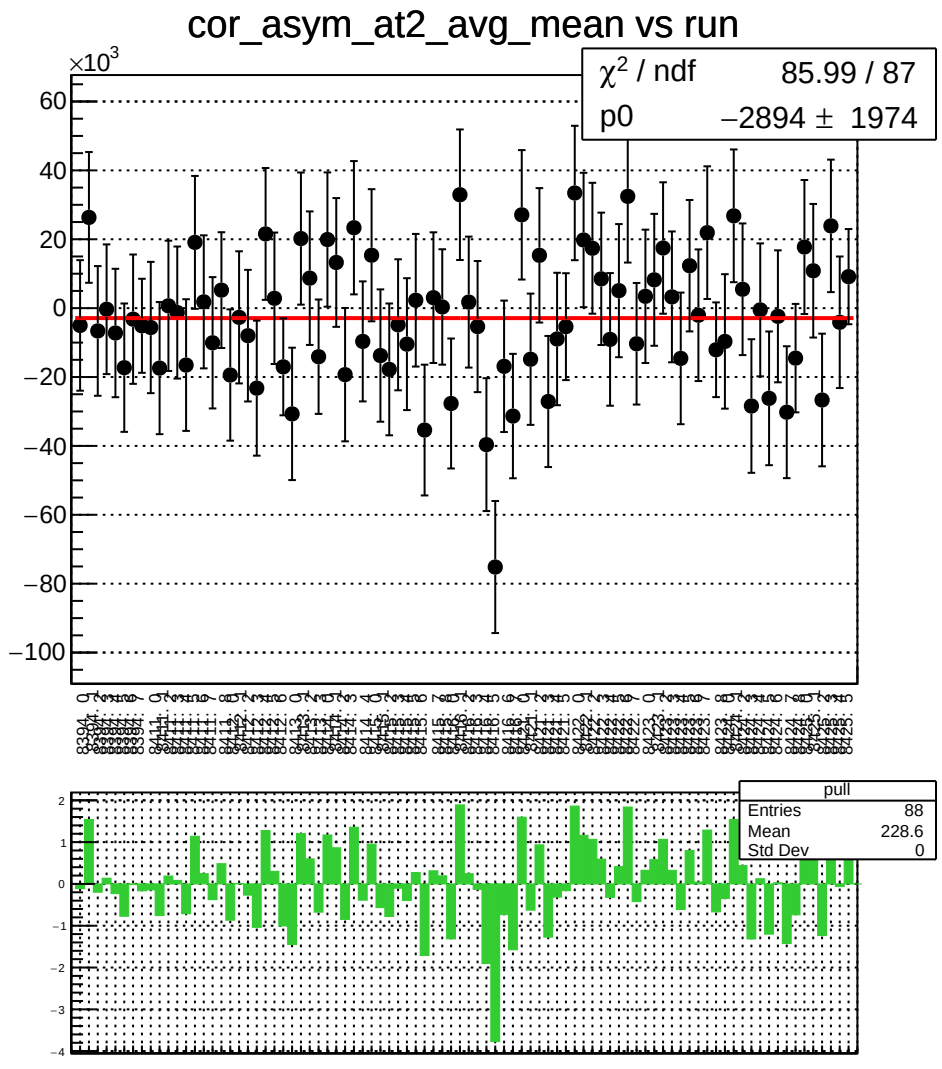

reg_asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 86 / 87
p0 −2893 ± 1974
pull
Entries 88
Mean 228.5
Std Dev 0

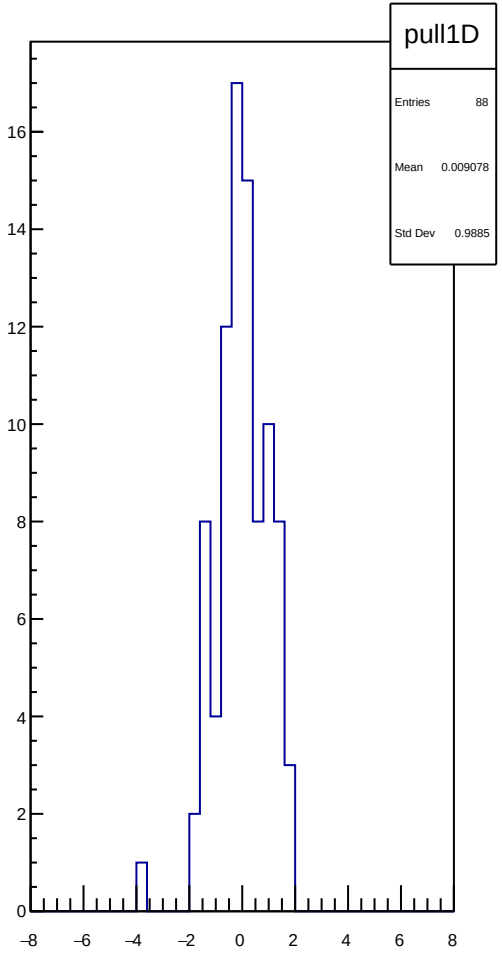

pull1D
Entries 88
Mean 0.009079
Std Dev 0.9885

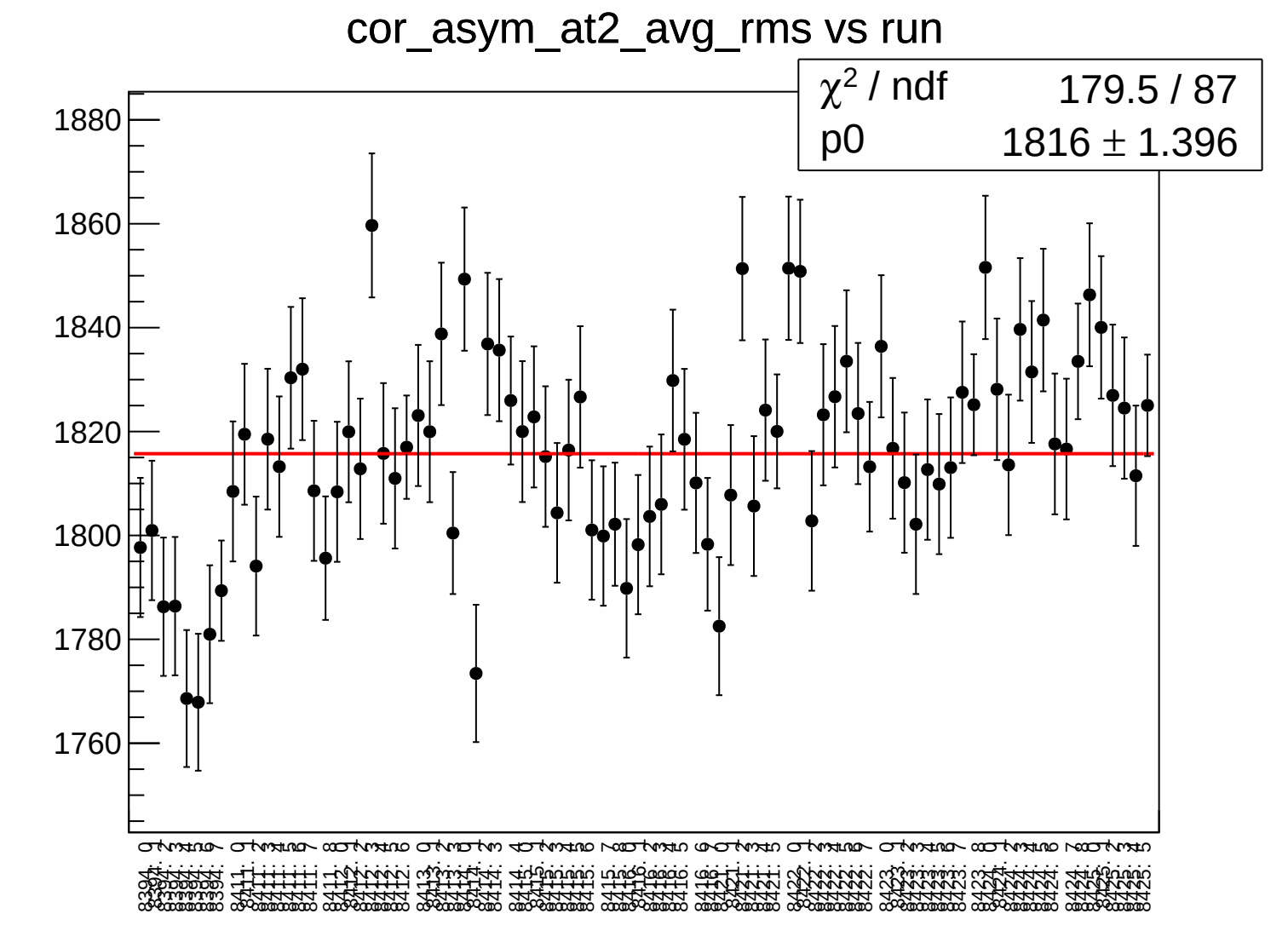

reg_asym_at2_avg_rms vs run
χ^2 / ndf 179.5 / 87
p0 1816 ± 1.396
1880
1860
1840
1820
1800
1780
1760

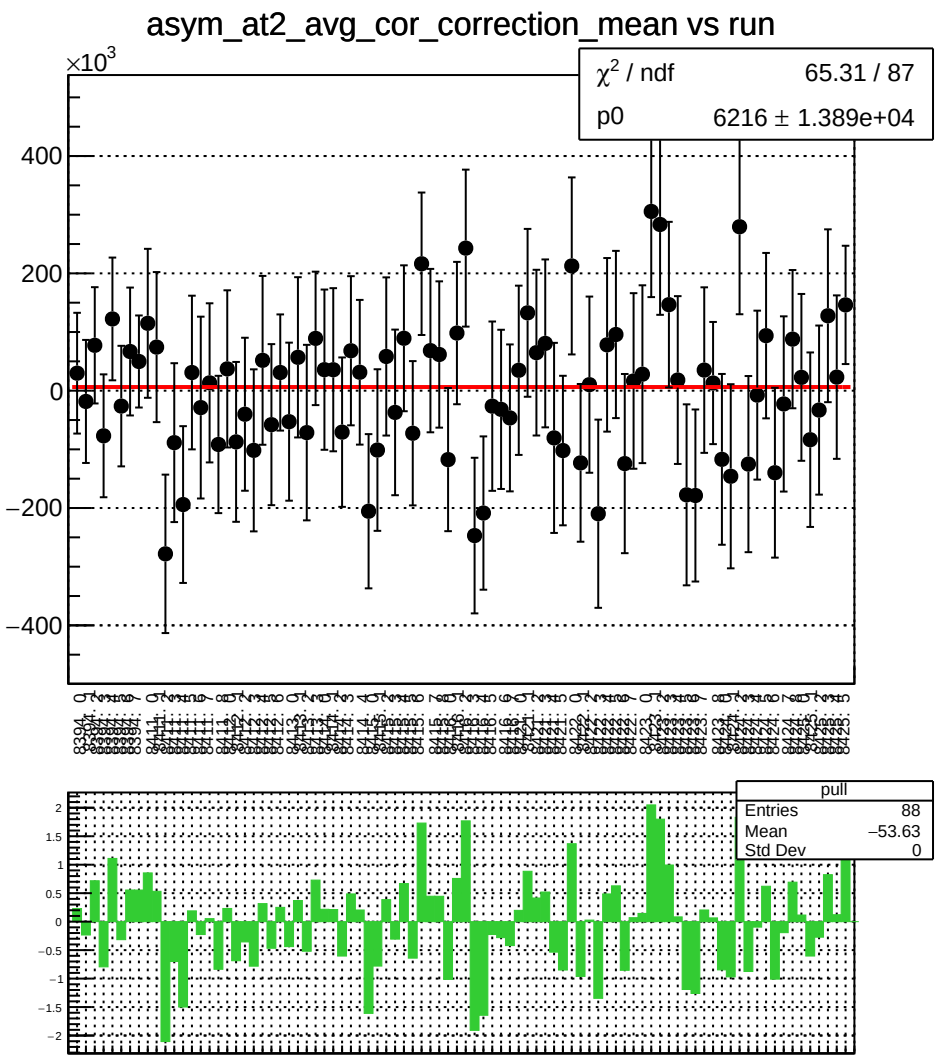

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 65.31 / 87
p0 6217 ± 1.389e+04
400
200
0
−200
−400
pull
Entries 88
Mean −53.62
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.01933
Std Dev 0.8612
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

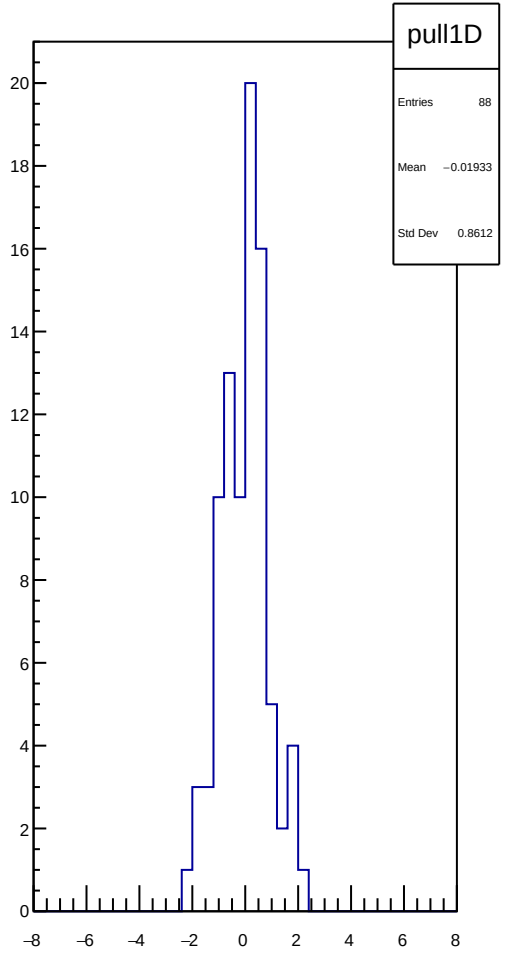

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 2.167e+04 / 87
p0 1.27e+04 ± 9.824
16000
15000
14000
13000
12000
11000
10000
9000

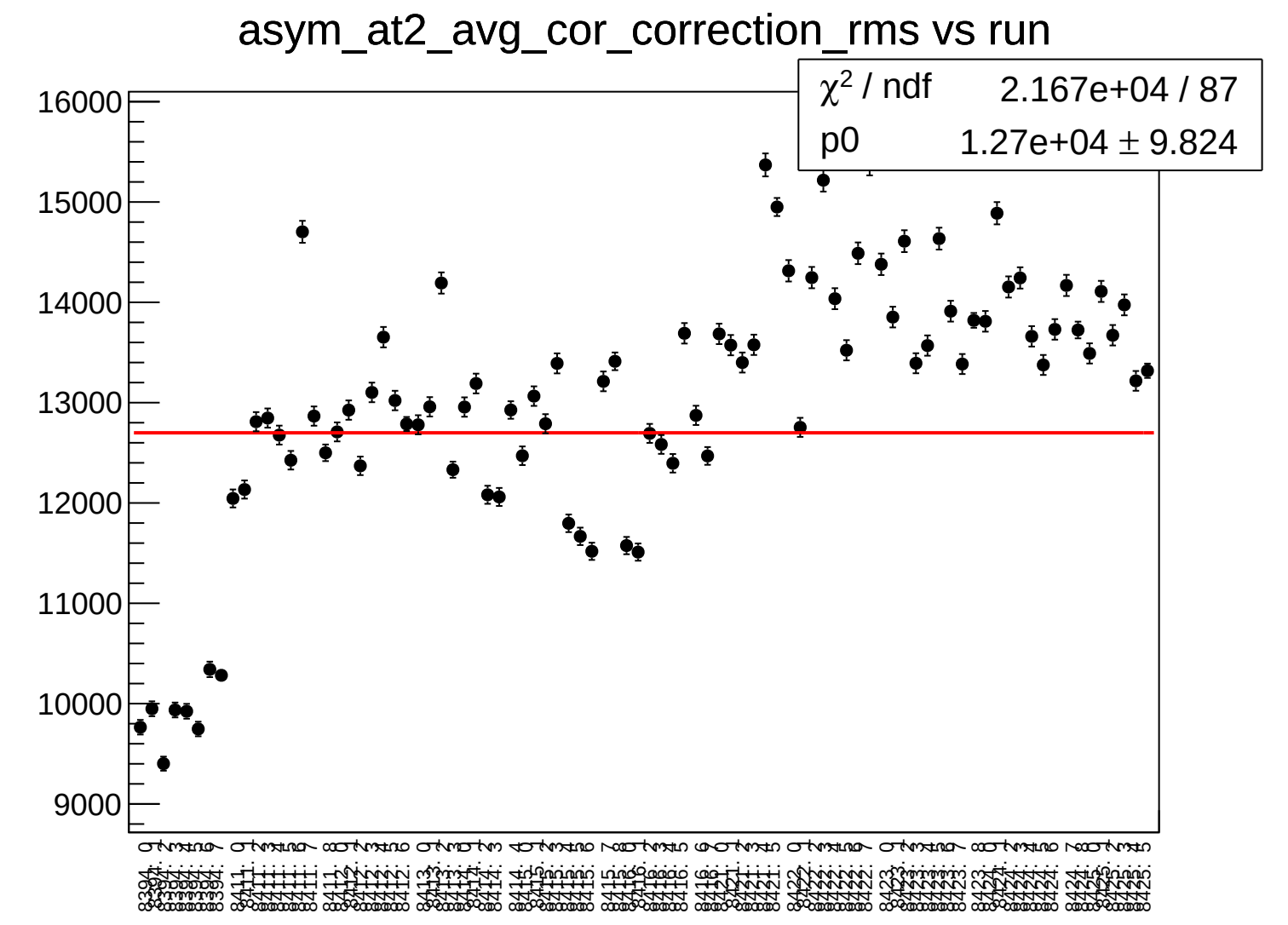

cor_asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 85.99 / 87
p0 −2894 ± 1974
pull
Entries 88
Mean 228.6
Std Dev 0

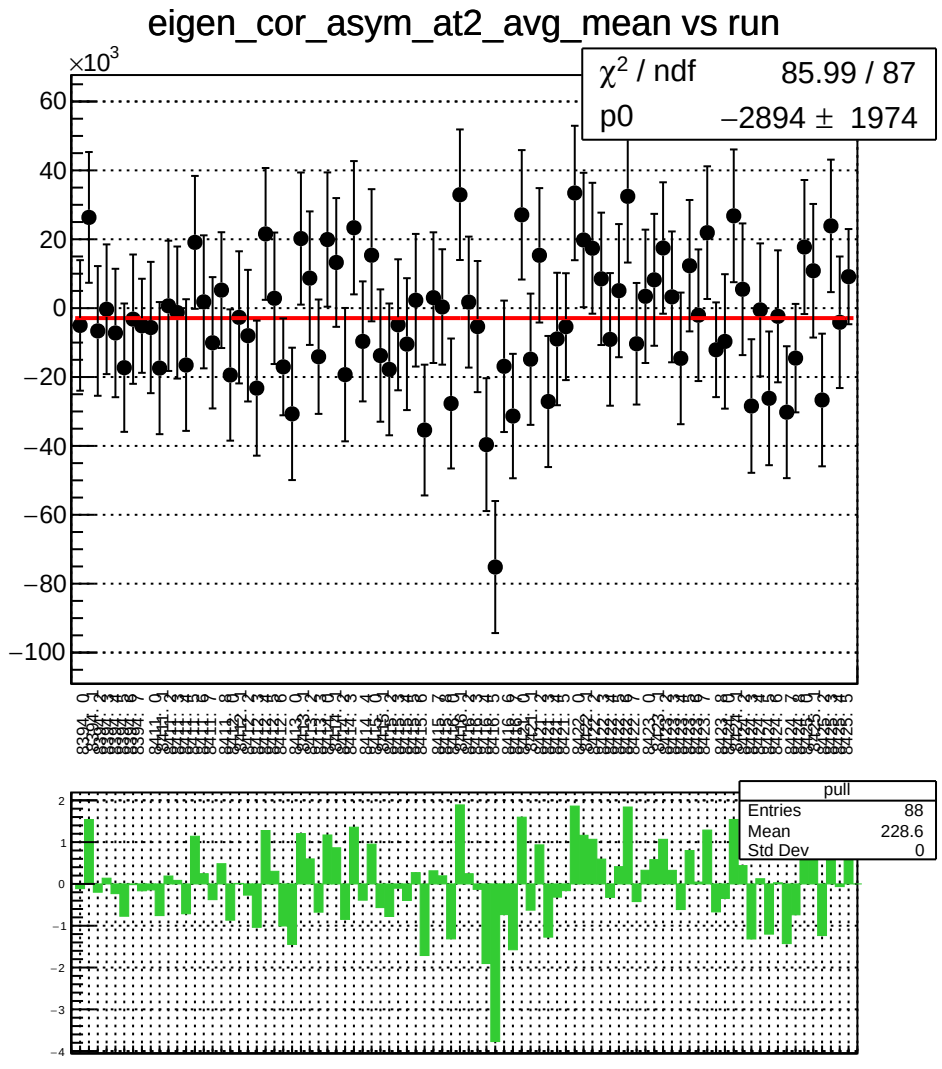

pull1D
Entries 88
Mean 0.009078
Std Dev 0.9885

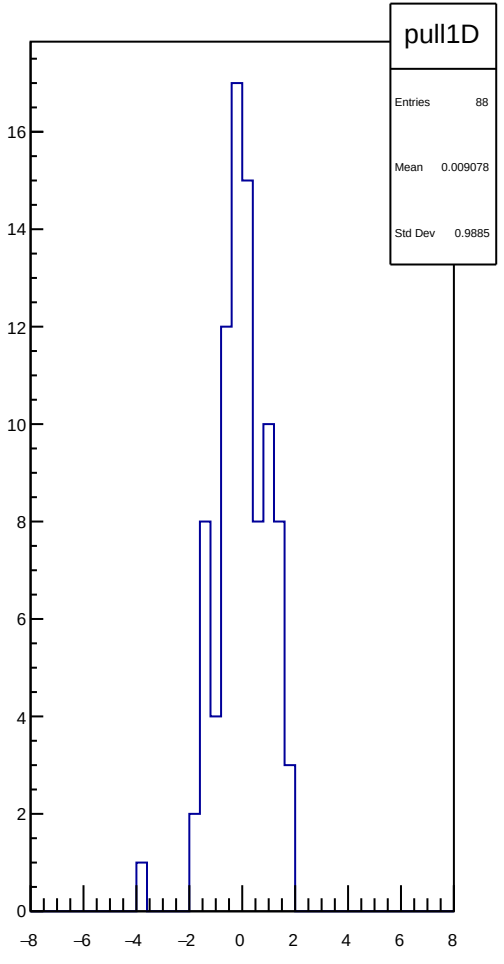

cor_asym_at2_avg_rms vs run
χ^2 / ndf 179.5 / 87
p0 1816 ± 1.396
1880
1860
1840
1820
1800
1780
1760

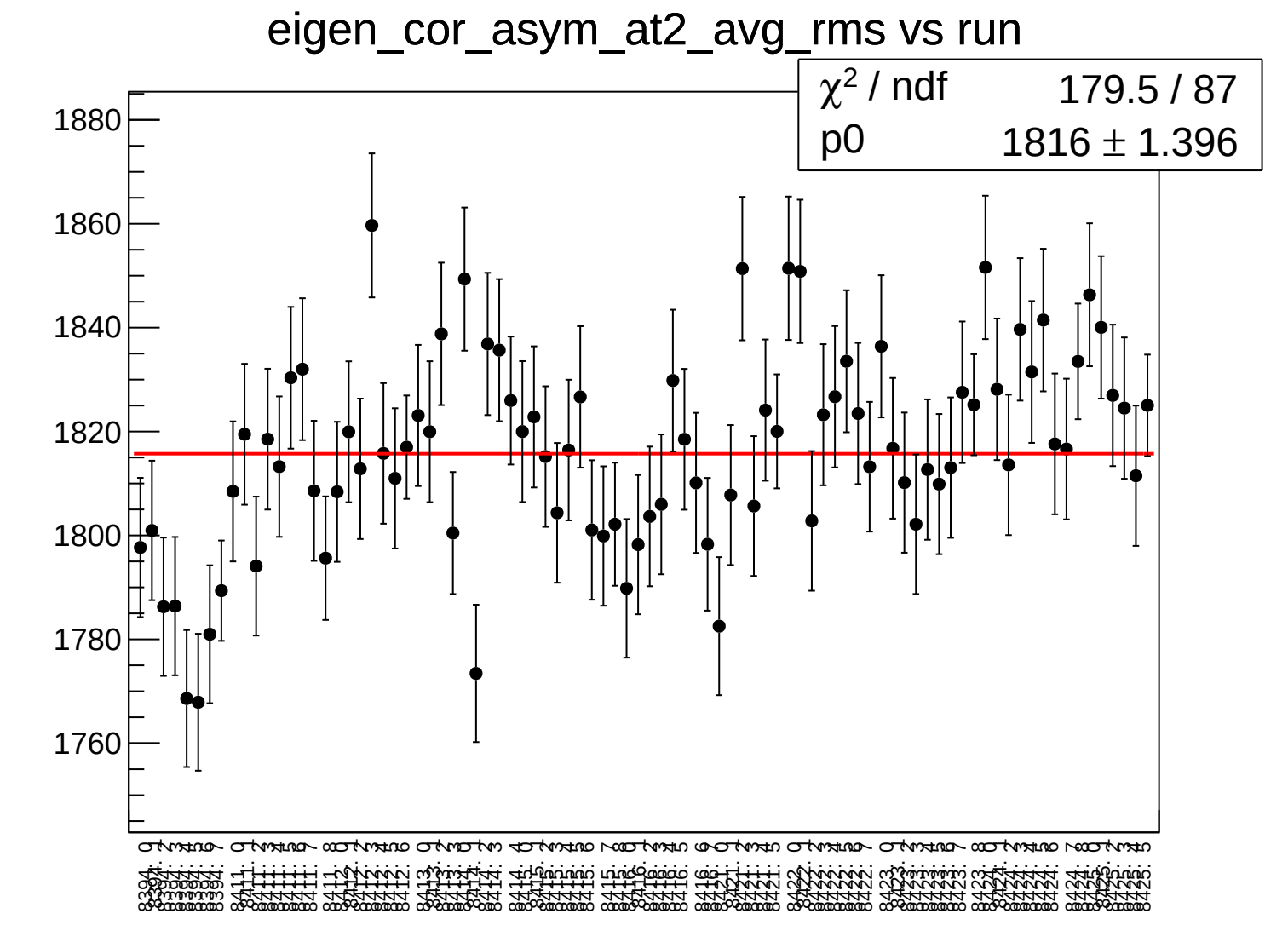

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 65.31 / 87
p0 6216 ± 1.389e+04
400
200
0
−200
−400
pull
Entries 88
Mean −53.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

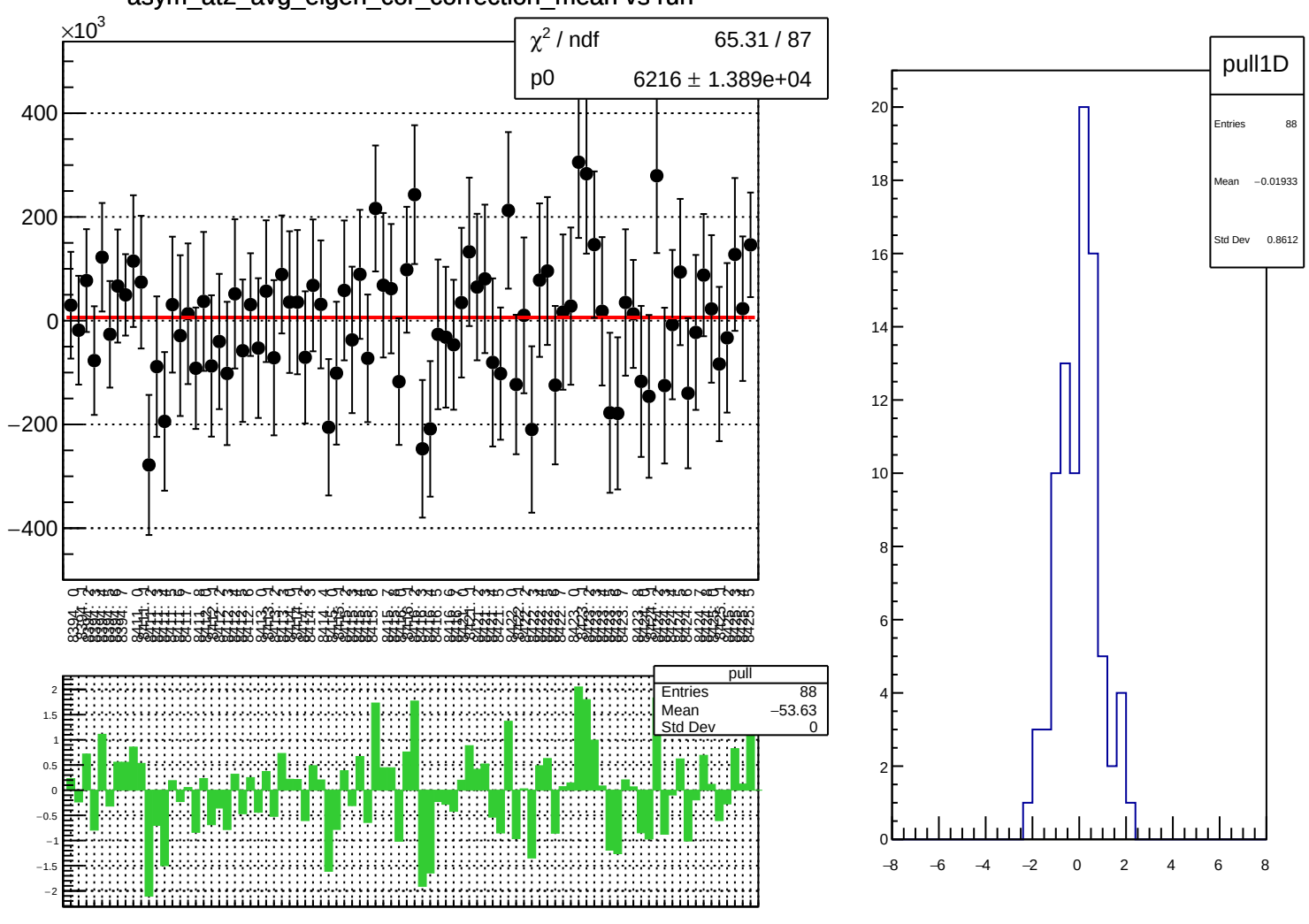

pull1D
Entries 88
Mean −0.01933
Std Dev 0.8612
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

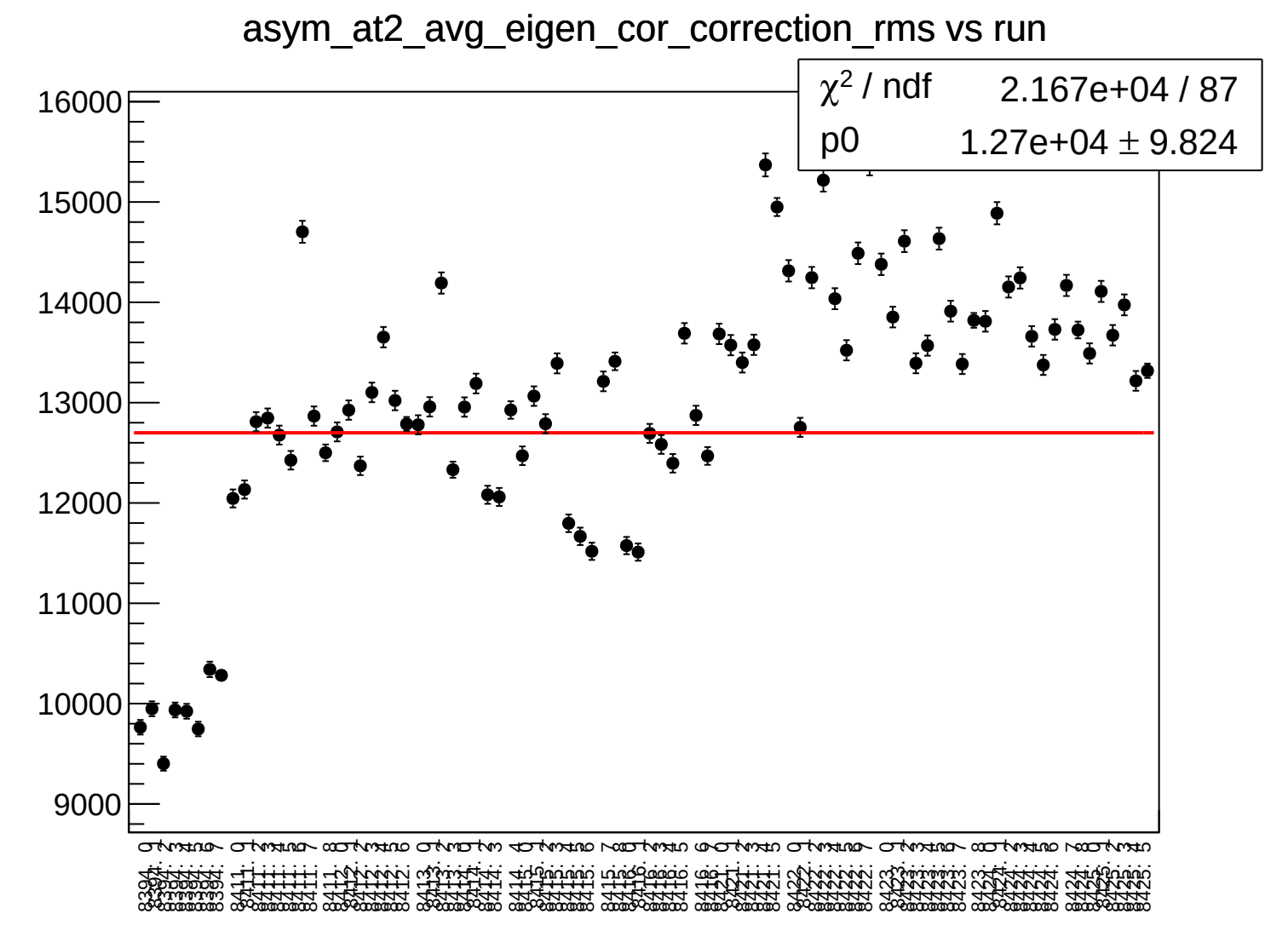

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 2.167e+04 / 87
p0 1.27e+04 ± 9.824
16000
15000
14000
13000
12000
11000
10000
9000

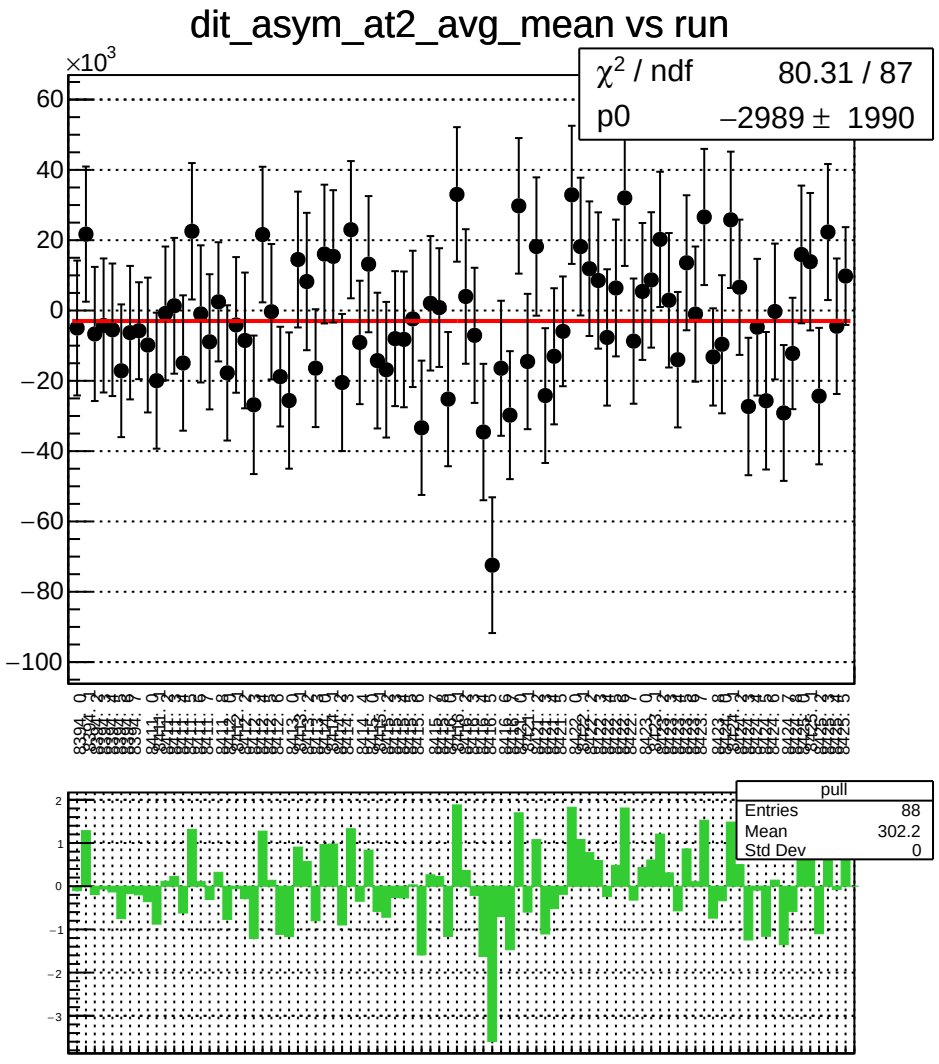

eigen_cor_asym_at2_avg_mean vs run
×10^3
χ² / ndf 85.99 / 87
p0 −2894 ± 1974
pull
Entries 88
Mean 228.6
Std Dev 0

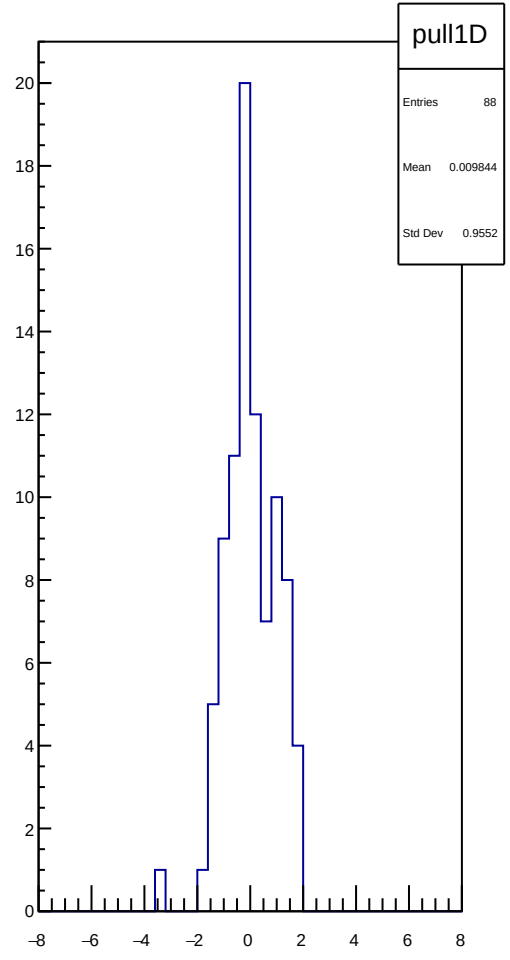

pull1D
Entries 88
Mean 0.009078
Std Dev 0.9885

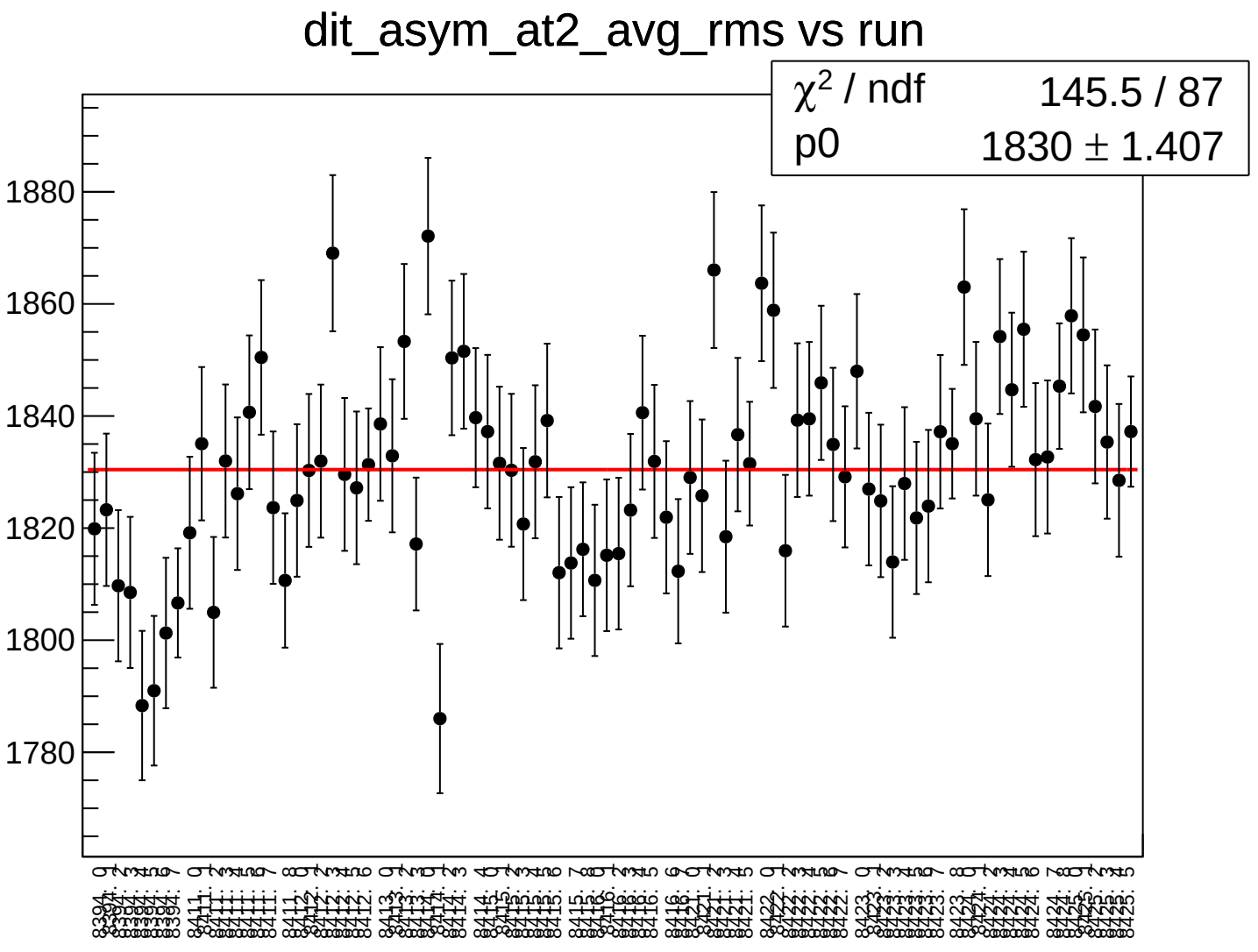

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 179.5 / 87
p0 1816 ± 1.396
1880
1860
1840
1820
1800
1780
1760

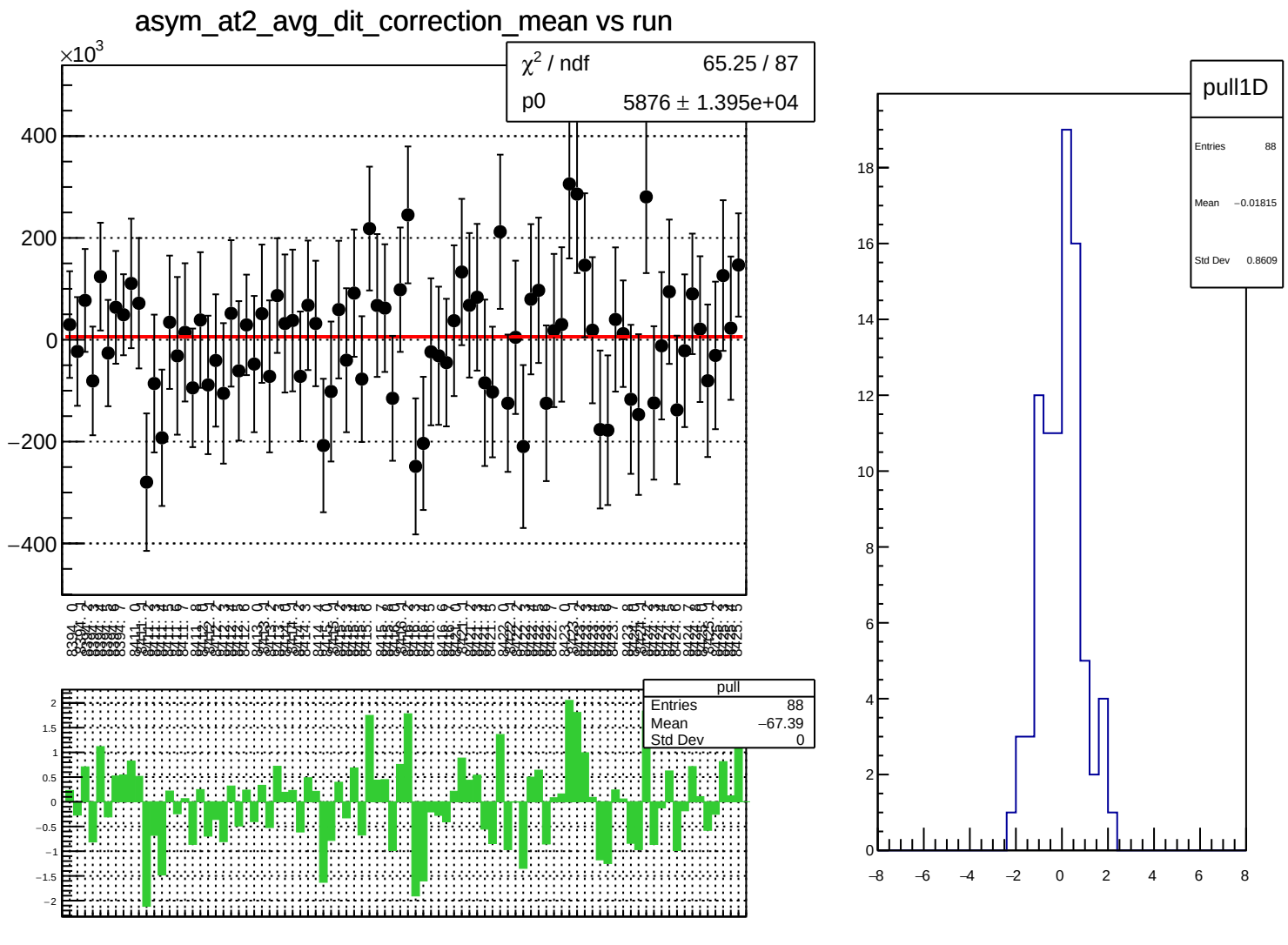

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 65.31 / 87
p0 6216 ± 1.389e+04
400
200
0
−200
−400
pull
Entries 88
Mean −53.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.01933
Std Dev 0.8612
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

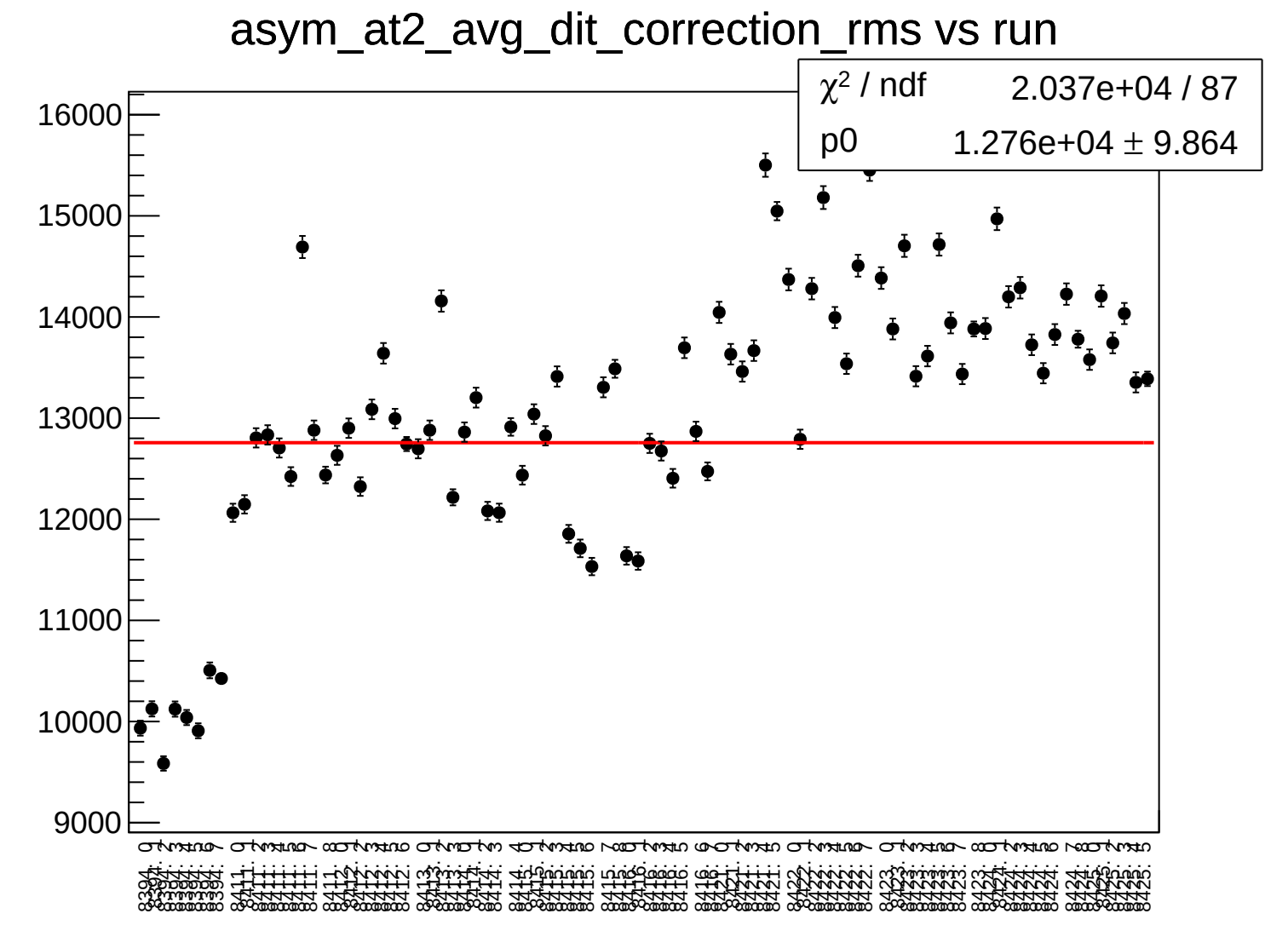

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.167e+04 / 87
p0 1.27e+04 ± 9.824
16000
15000
14000
13000
12000
11000
10000
9000

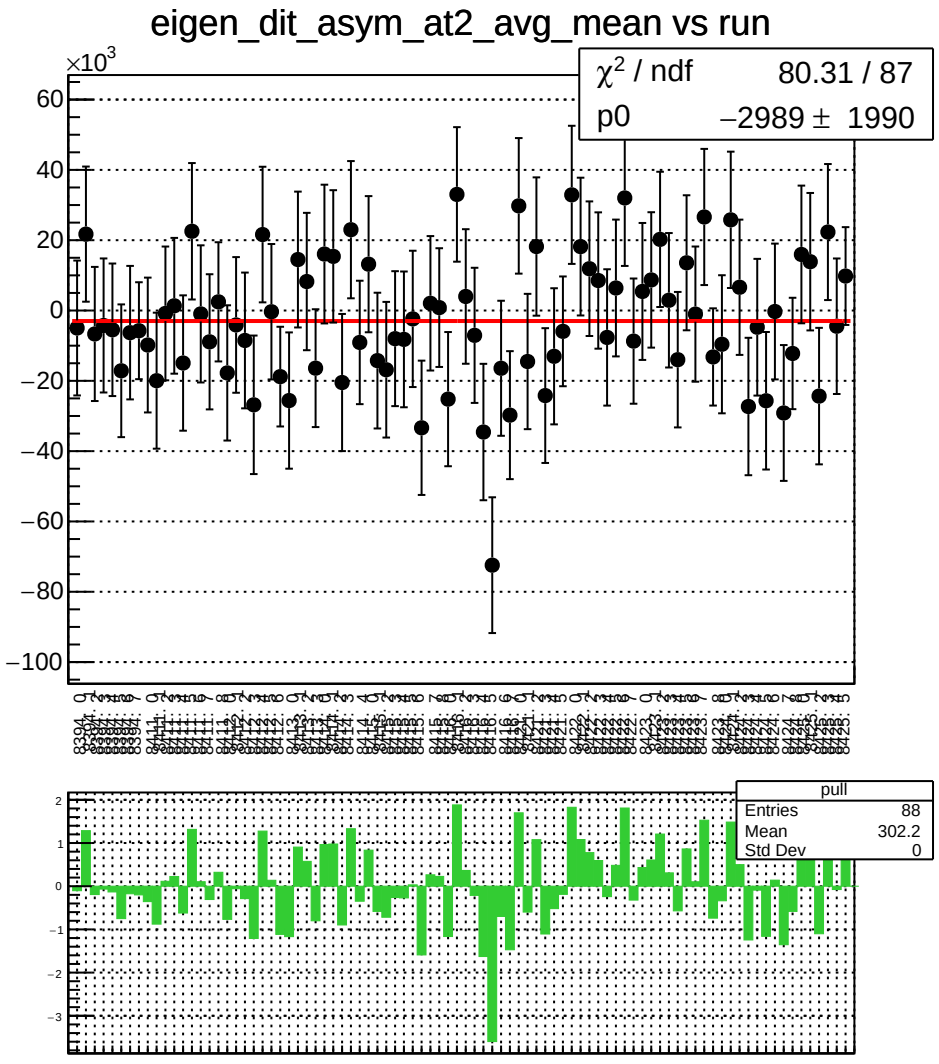

dit_asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 80.31 / 87
p0 −2989 ± 1990
pull
Entries 88
Mean 302.2
Std Dev 0

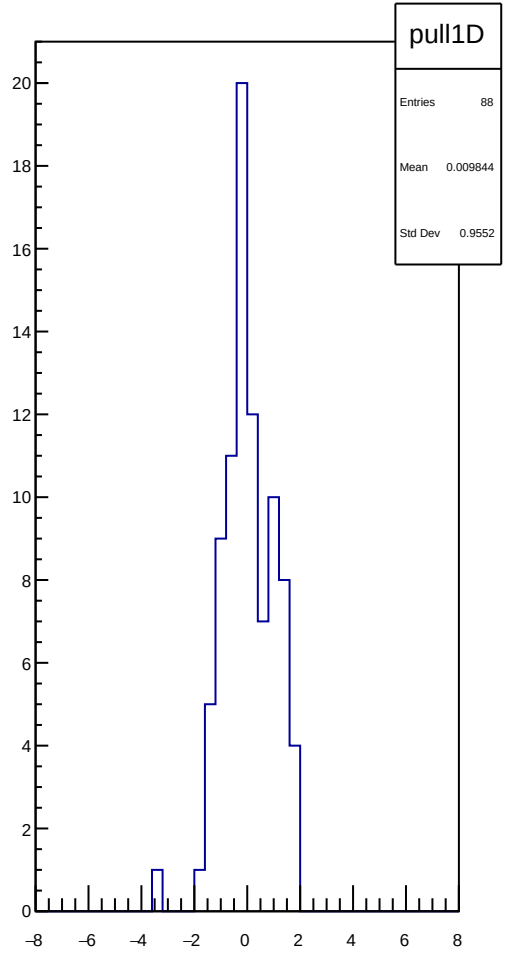

pull1D
Entries 88
Mean 0.009844
Std Dev 0.9552

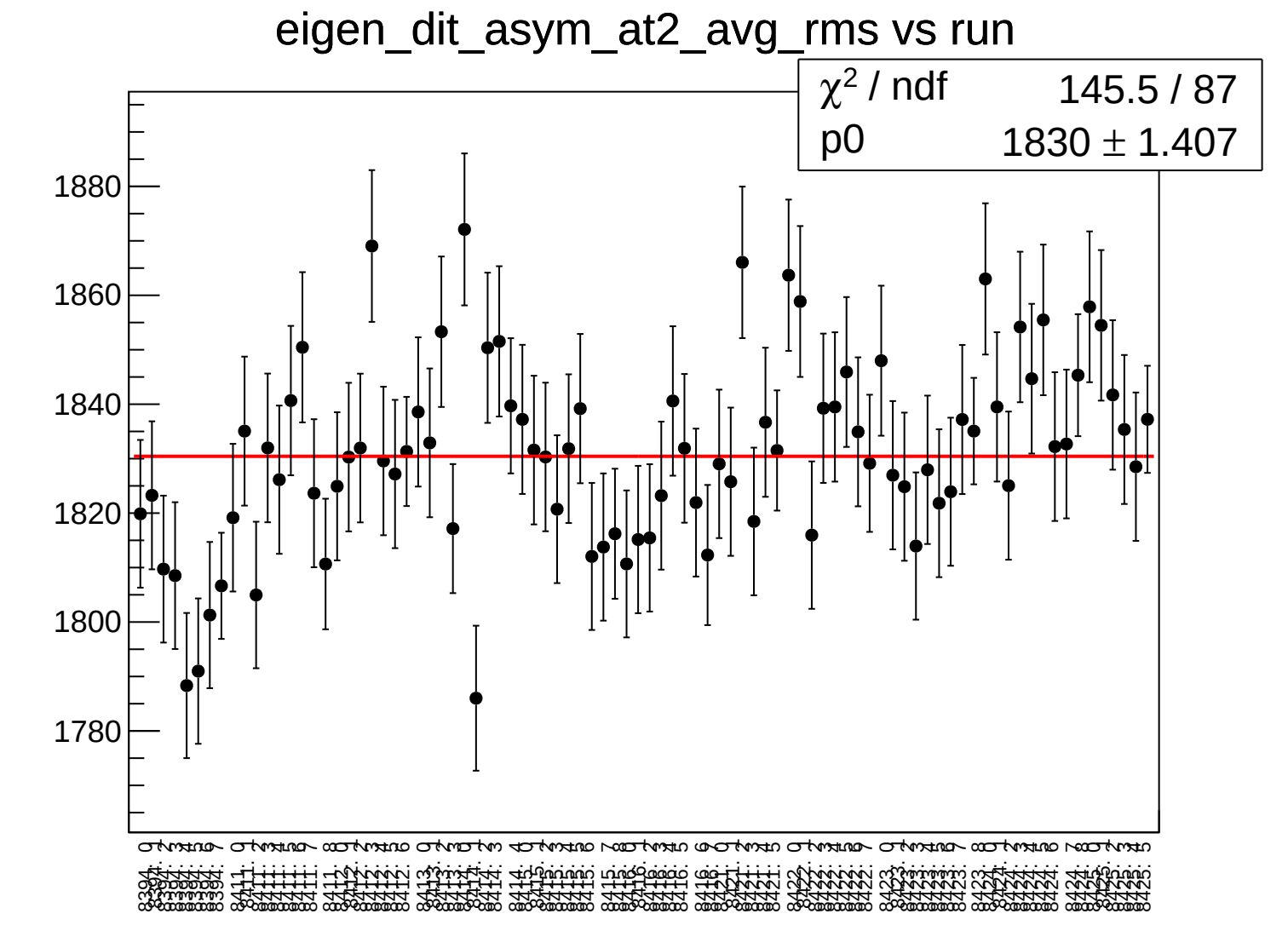

dit_asym_at2_avg_rms vs run
χ² / ndf 145.5 / 87
p0 1830 ± 1.407
1880
1860
1840
1820
1800
1780

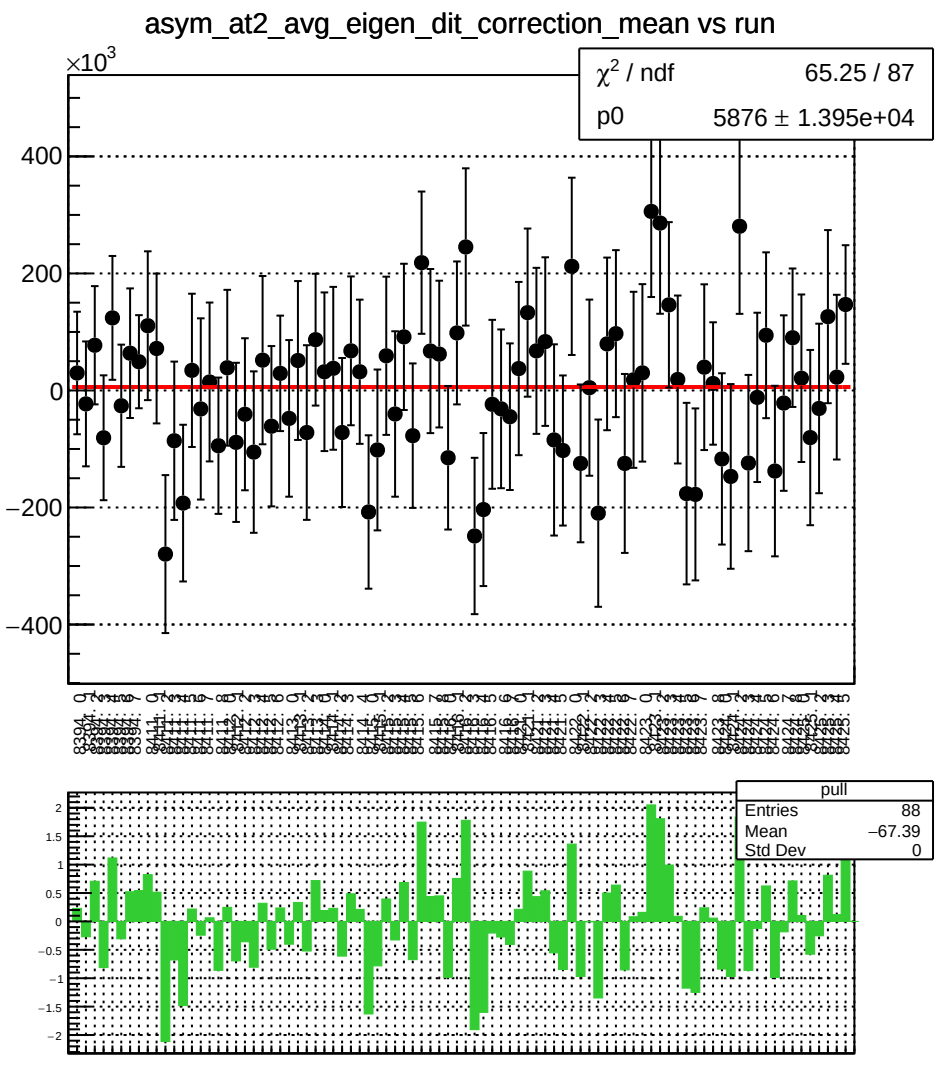

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 65.25 / 87
p0 5876 ± 1.395e+04
400
200
0
−200
−400
pull
Entries 88
Mean −67.39
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.01815
Std Dev 0.8609
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

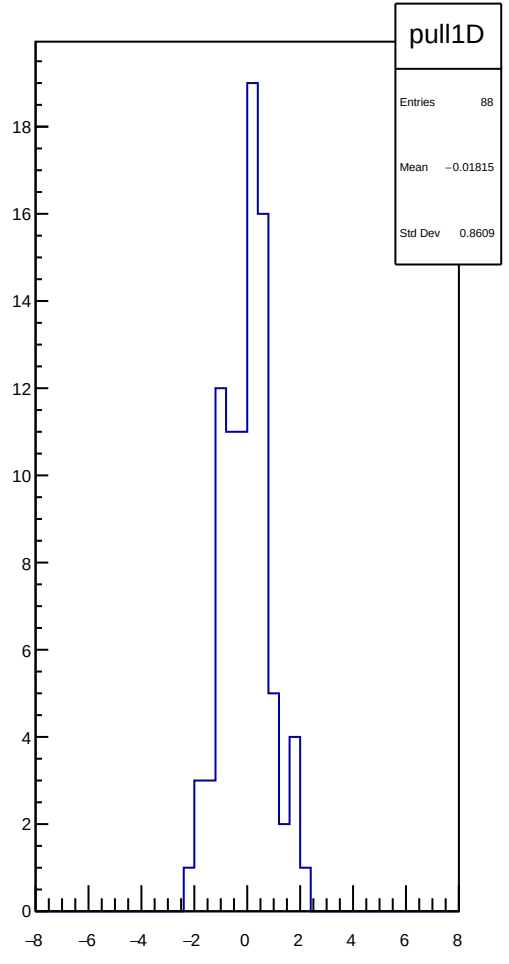

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 2.037e+04 / 87
p0 1.276e+04 ± 9.864
16000
15000
14000
13000
12000
11000
10000
9000

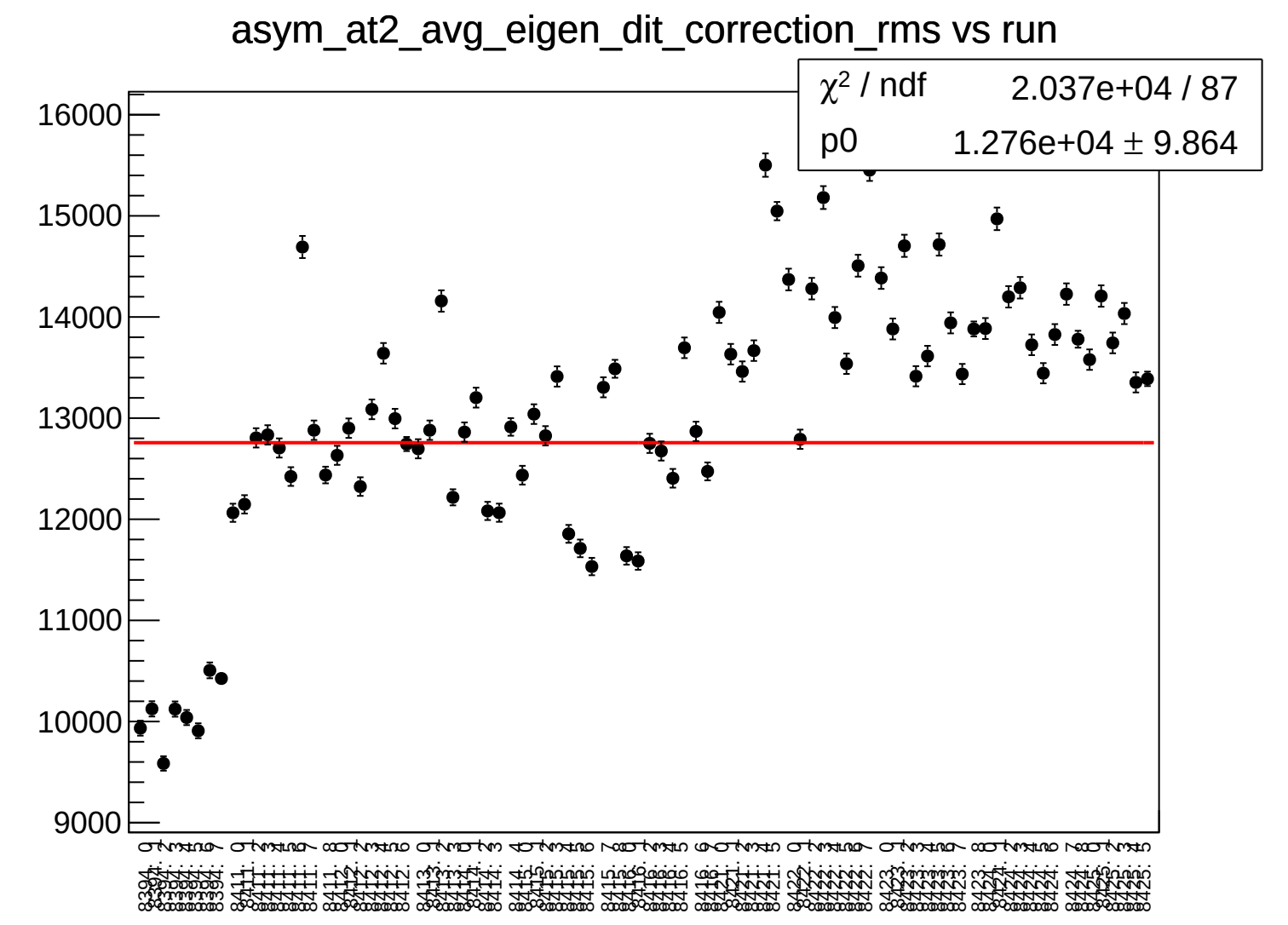

eigen_dit_asym_at2_avg_mean vs run
×10^3
χ² / ndf 80.31 / 87
p0 −2989 ± 1990
pull
Entries 88
Mean 302.2
Std Dev 0

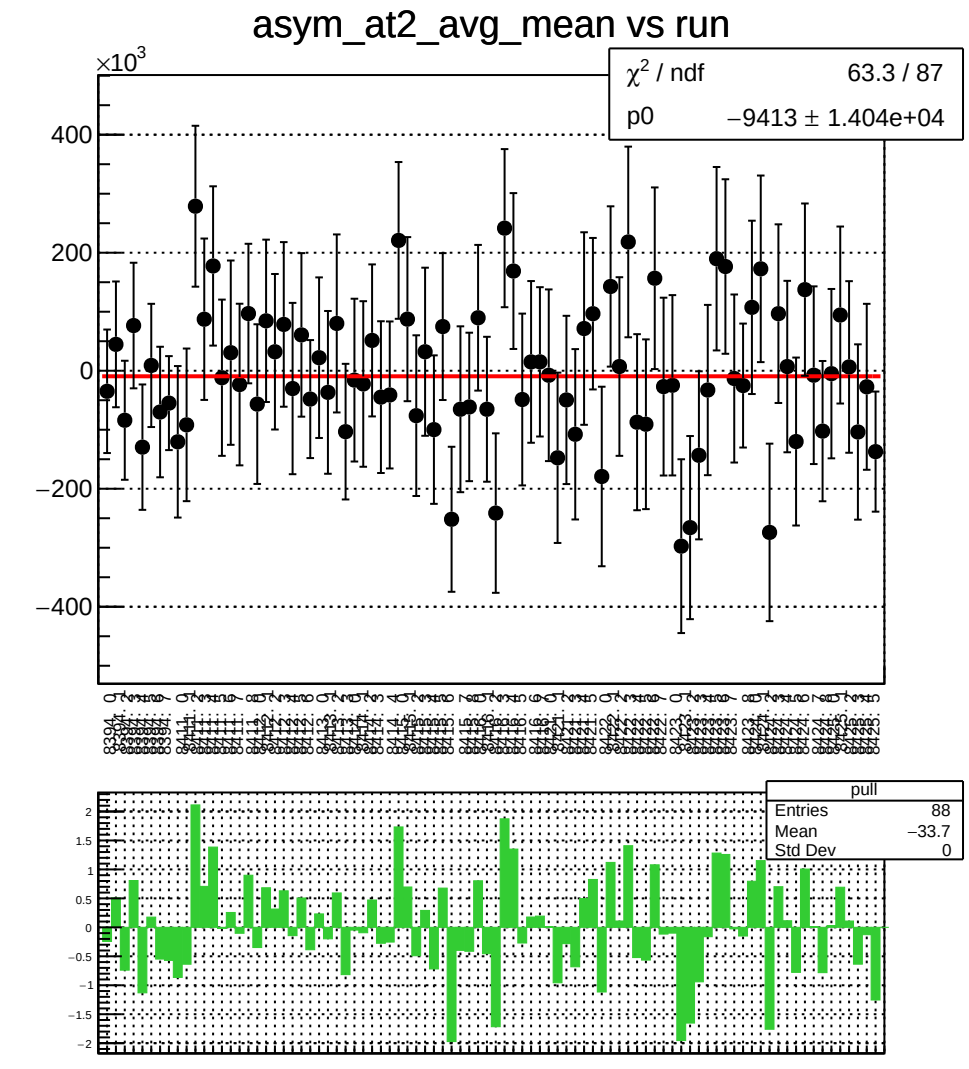

pull1D
Entries 88
Mean 0.009844
Std Dev 0.9552

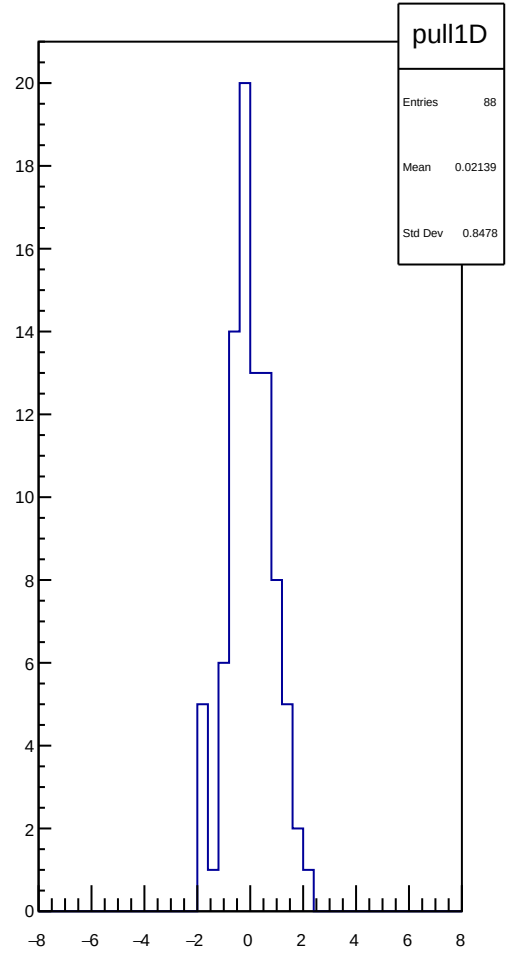

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 145.5 / 87
p0 1830 ± 1.407
1880
1860
1840
1820
1800
1780

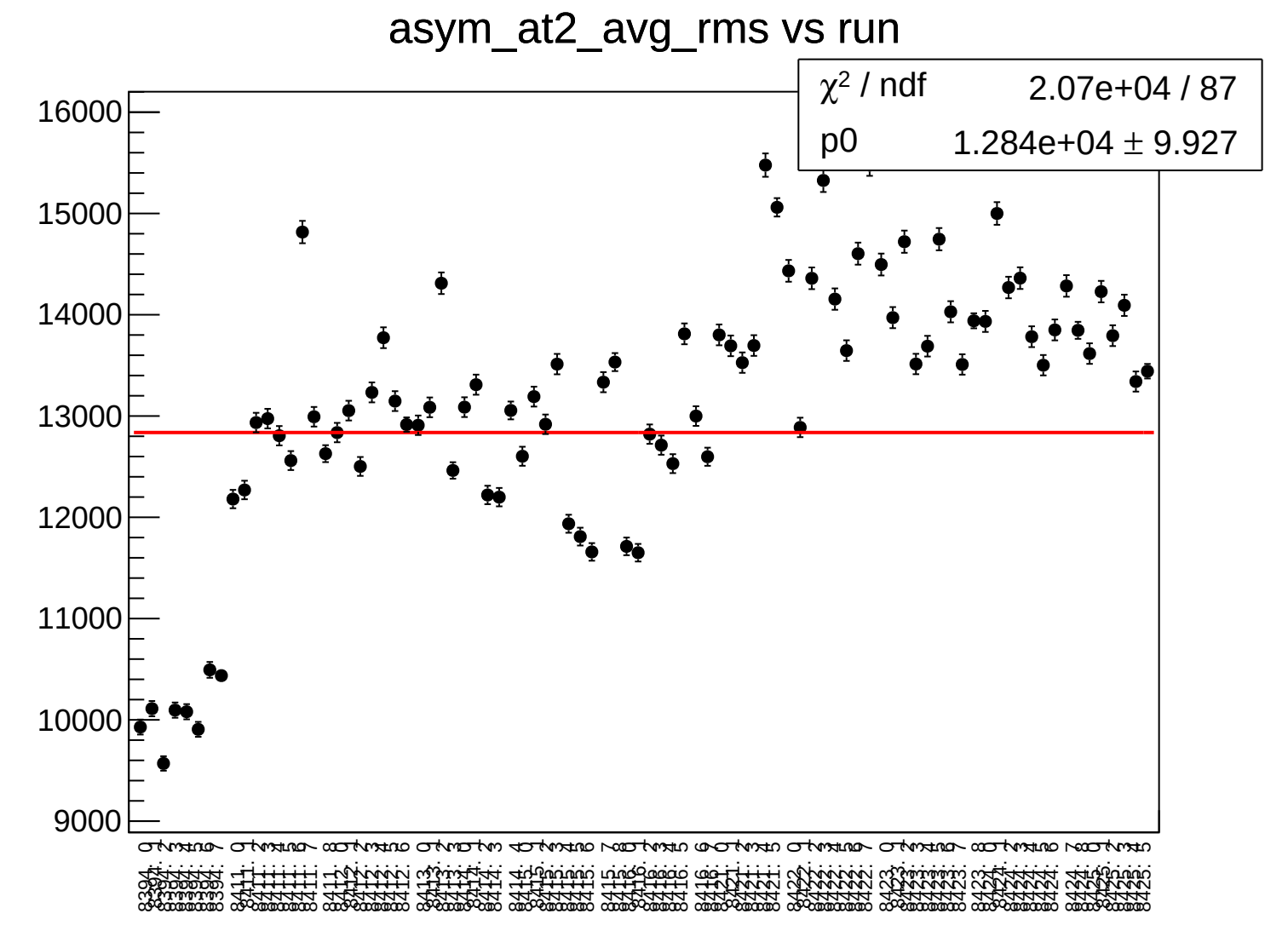

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 65.25 / 87
p0 5876 ± 1.395e+04
400
200
0
−200
−400
pull
Entries 88
Mean −67.39
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

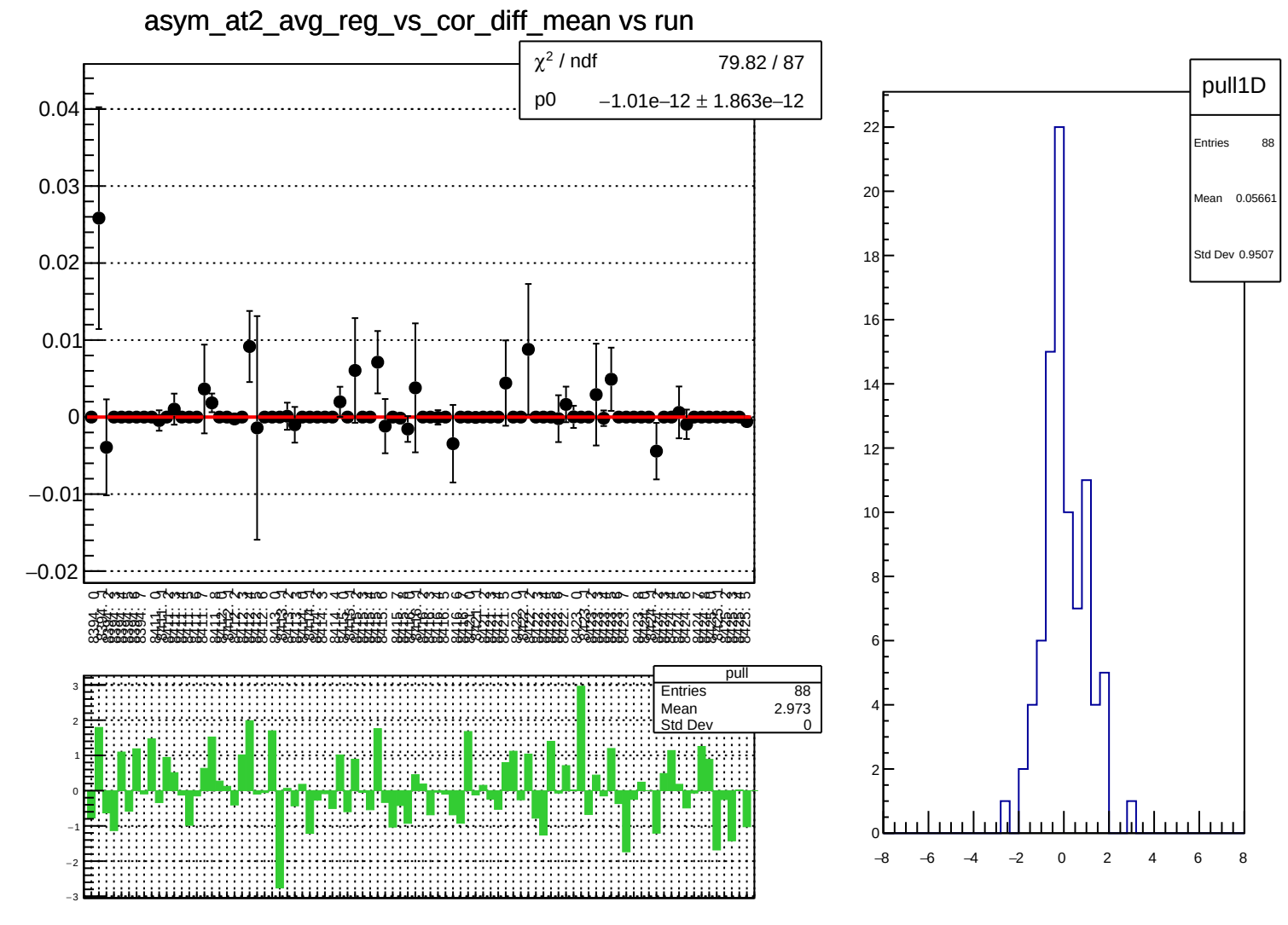

pull1D
Entries 88
Mean −0.01815
Std Dev 0.8609
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

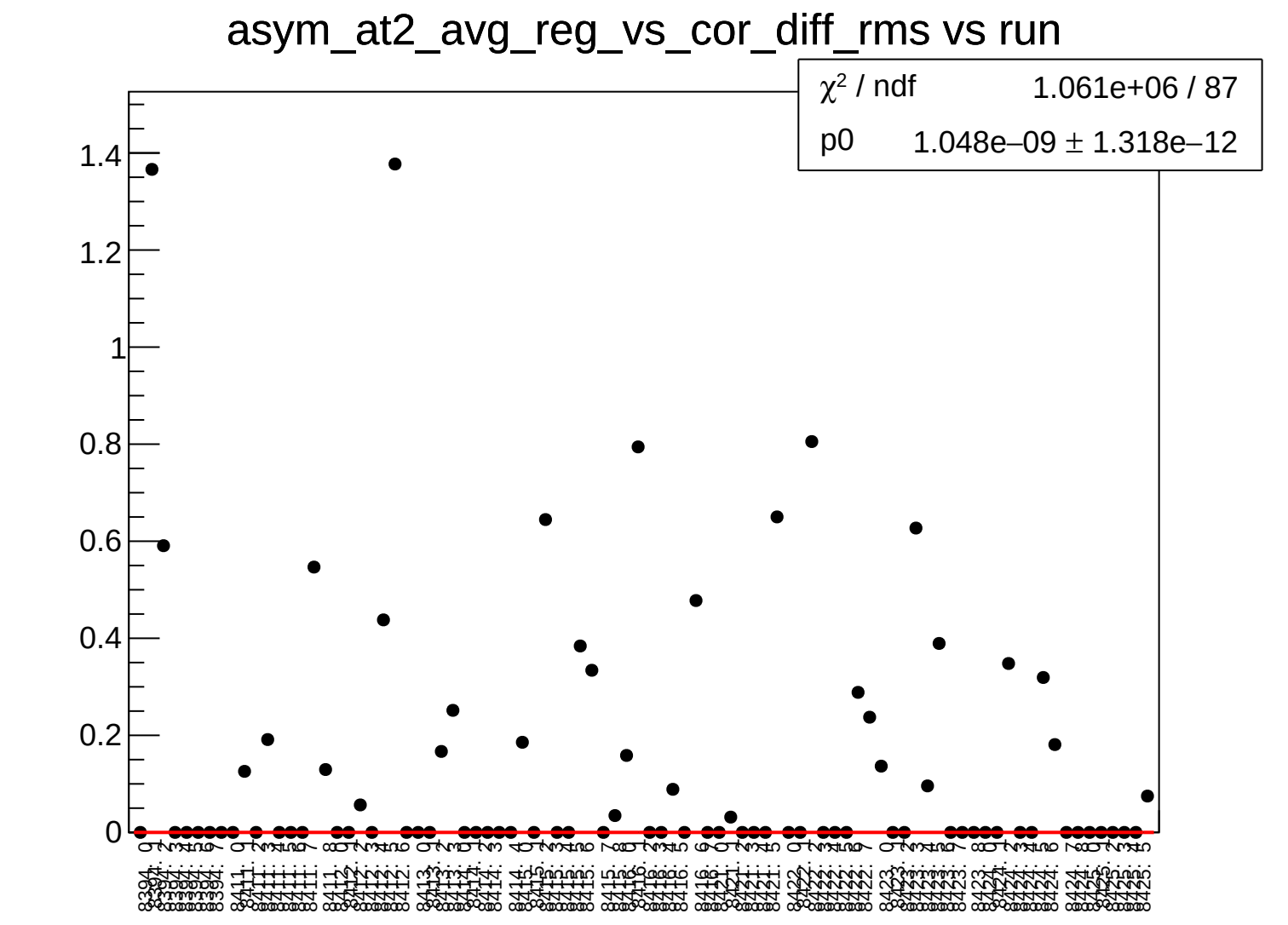

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.037e+04 / 87
p0 1.276e+04 ± 9.864
16000
15000
14000
13000
12000
11000
10000
9000

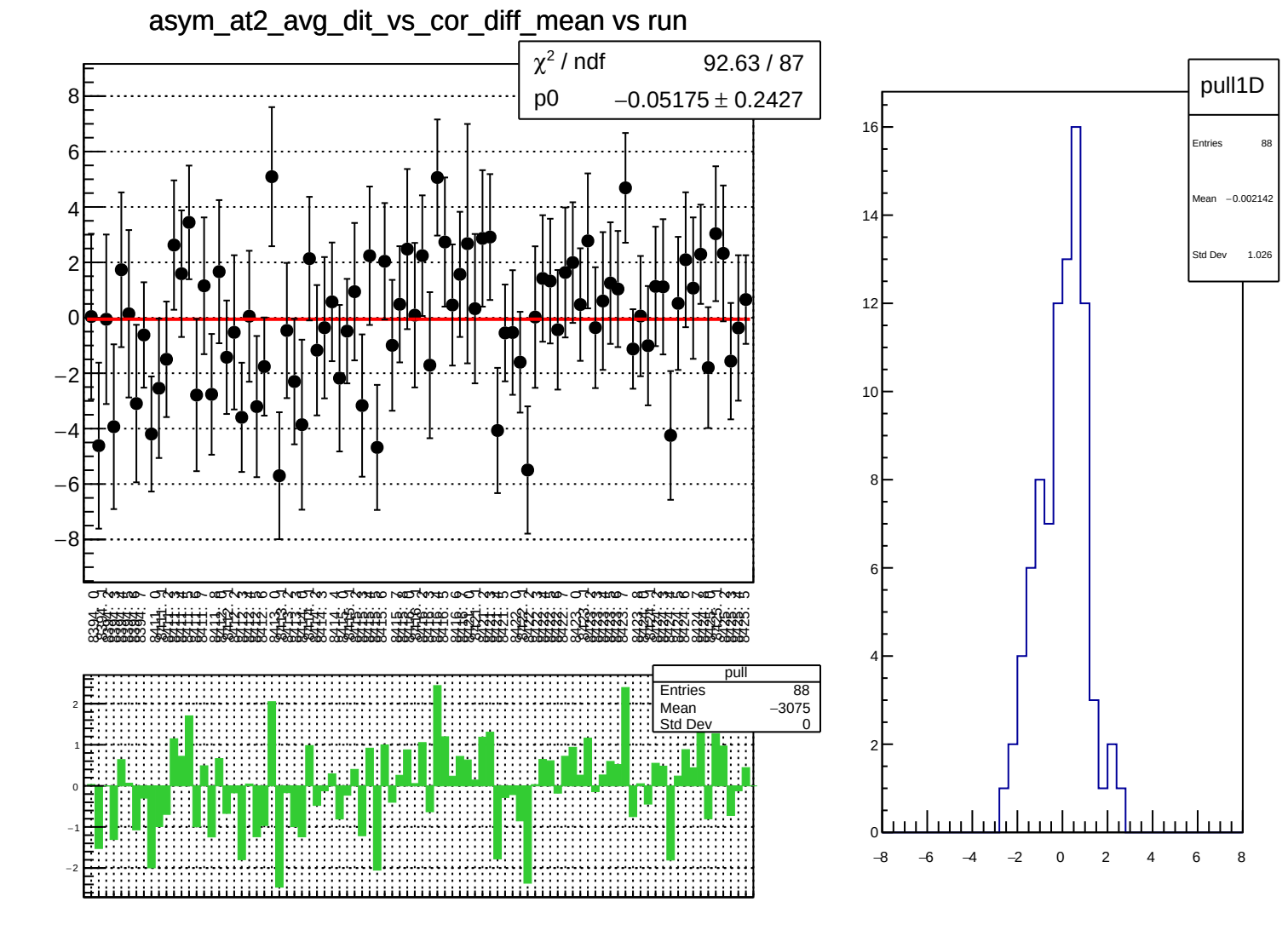

asym_at2_avg_mean vs run
×10^3
χ² / ndf 63.3 / 87
p0 −9413 ± 1.404e+04
400
200
0
−200
−400
pull
Entries 88
Mean −33.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

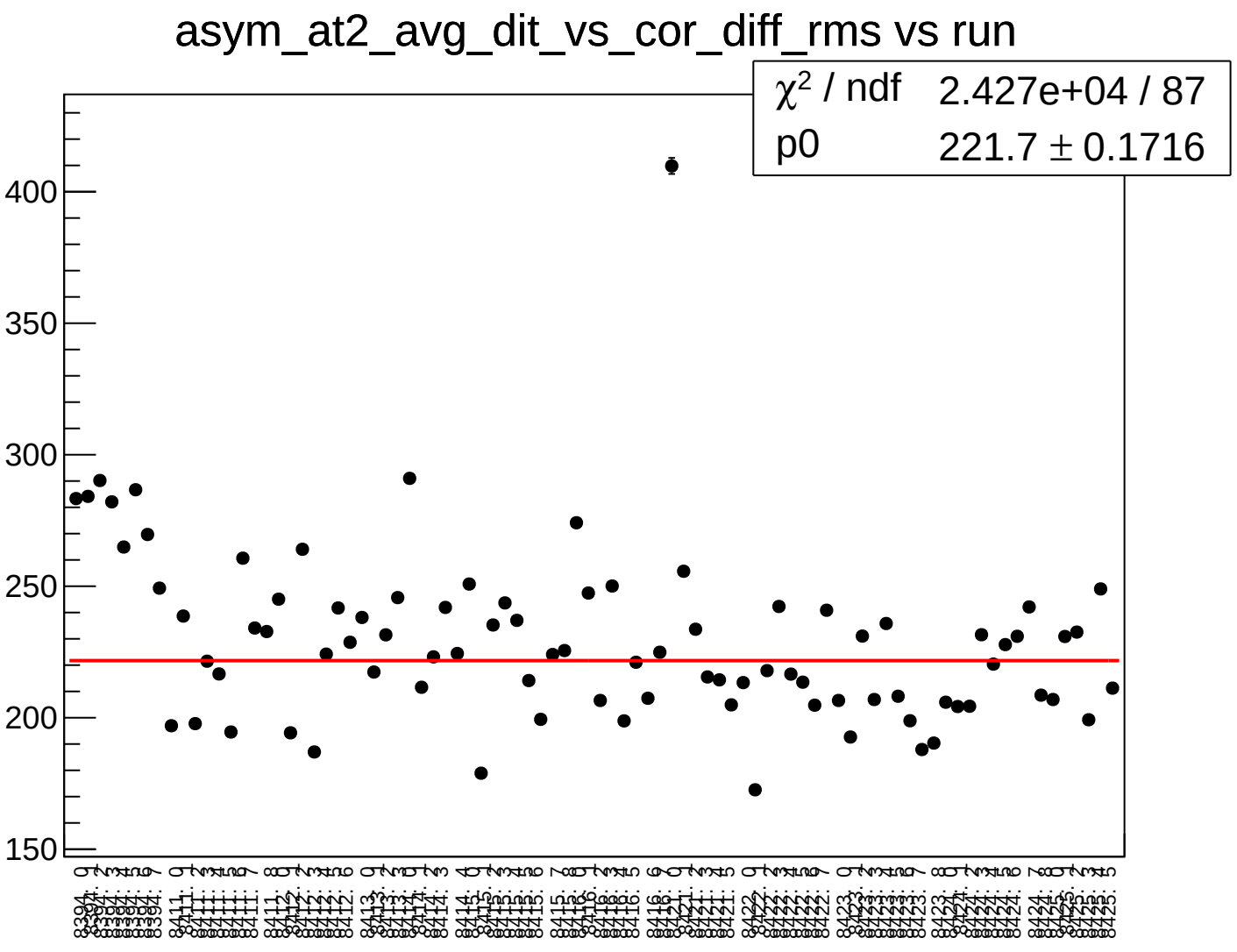

pull1D
Entries 88
Mean 0.02139
Std Dev 0.8478
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

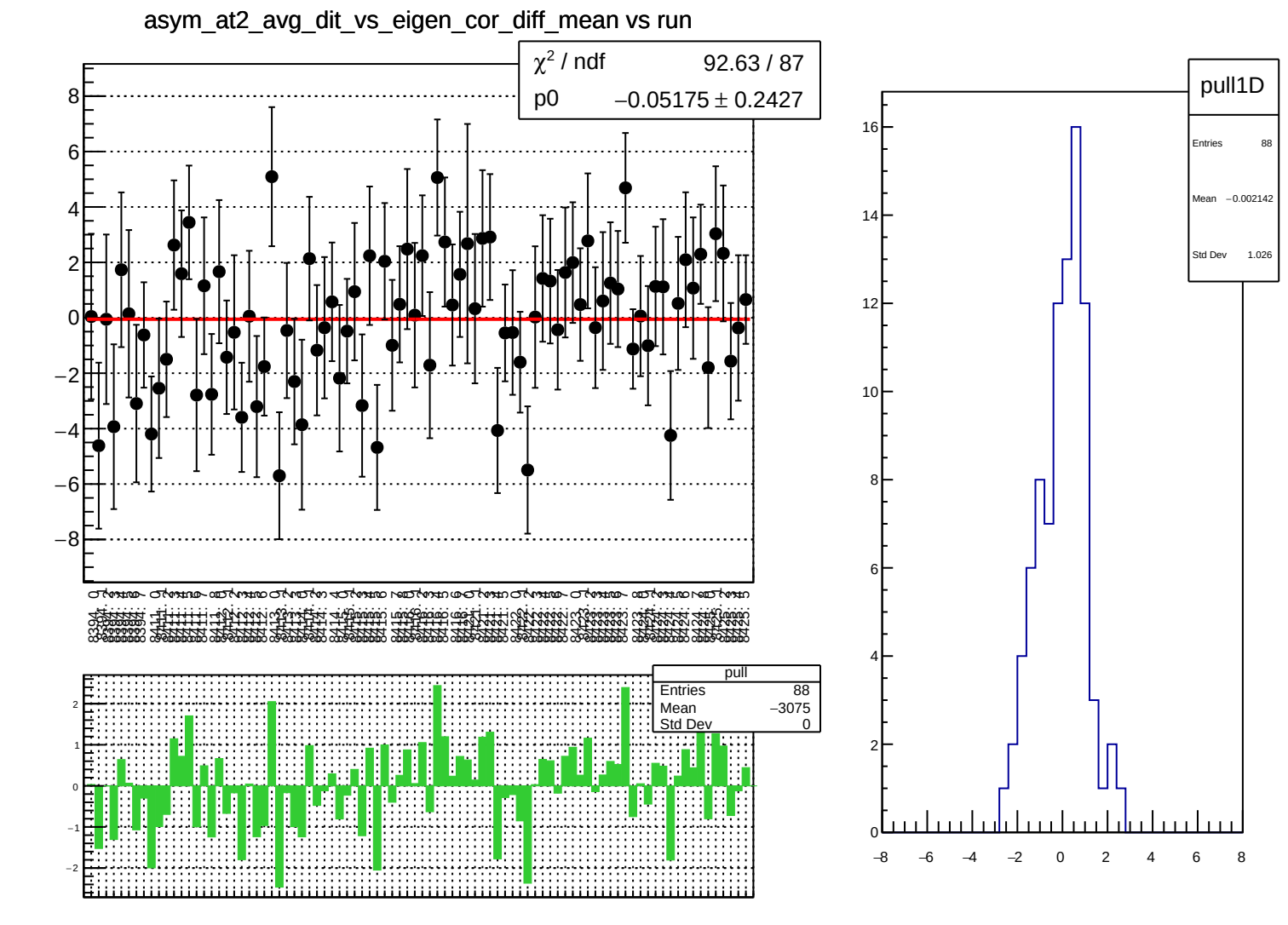

asym_at2_avg_rms vs run
χ² / ndf 2.07e+04 / 87
p0 1.284e+04 ± 9.927
16000
15000
14000
13000
12000
11000
10000
9000

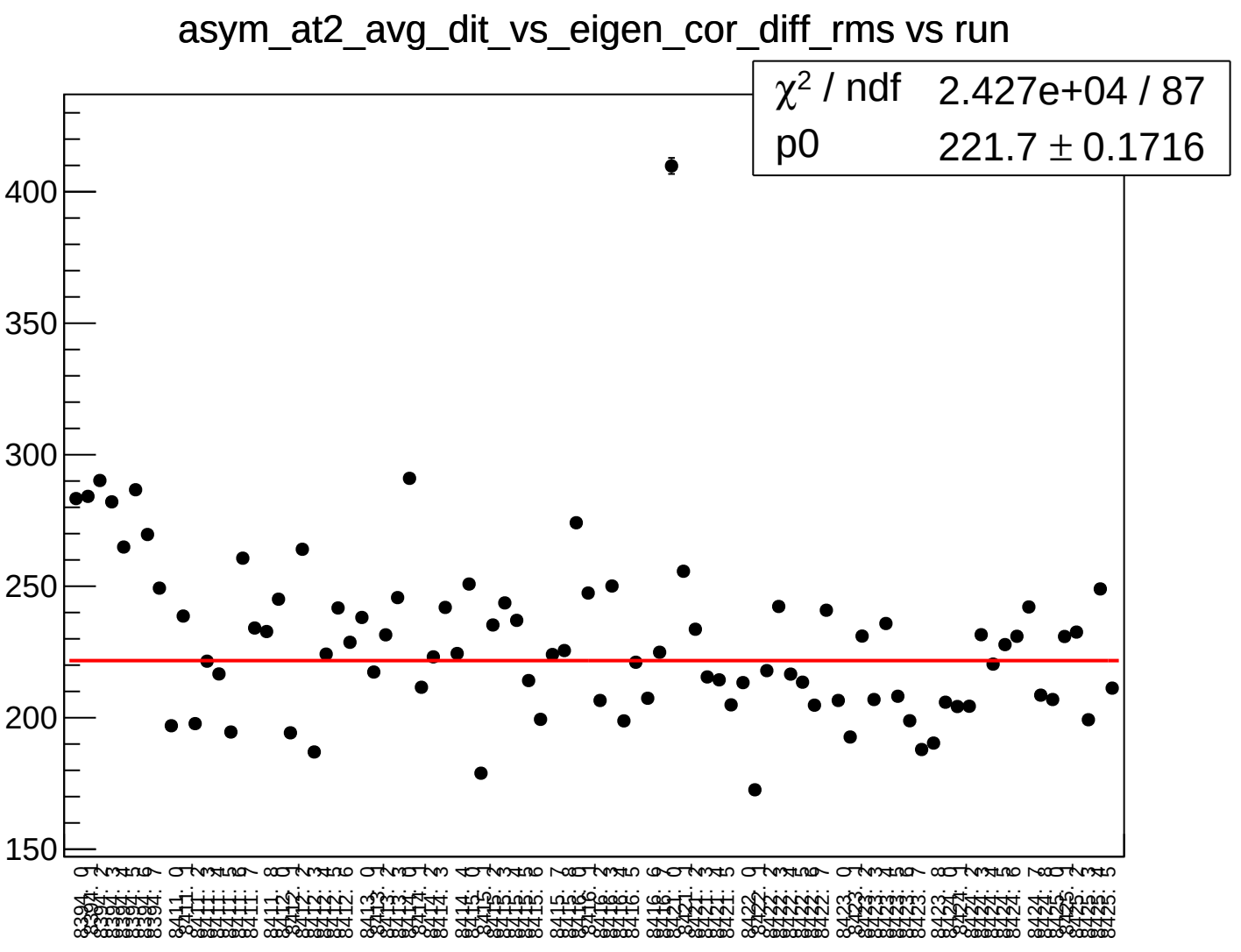

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79.82 / 87
p0 −1.01e−12 ± 1.863e−12
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 88
Mean 2.973
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.05661
Std Dev 0.9507
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

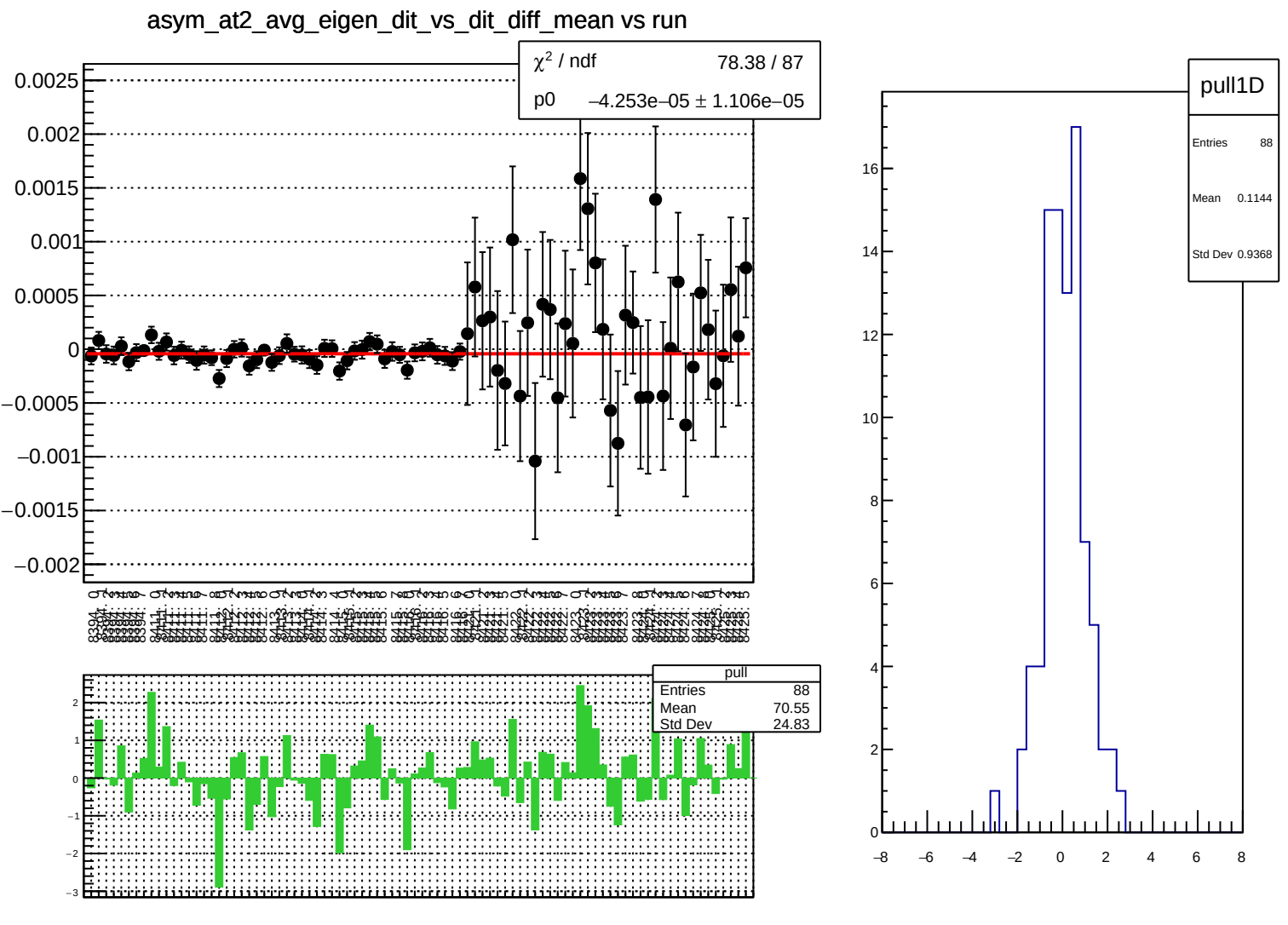

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.061e+06 / 87
p0 1.048e−09 ± 1.318e−12
1.4
1.2
1
0.8
0.6
0.4
0.2
0

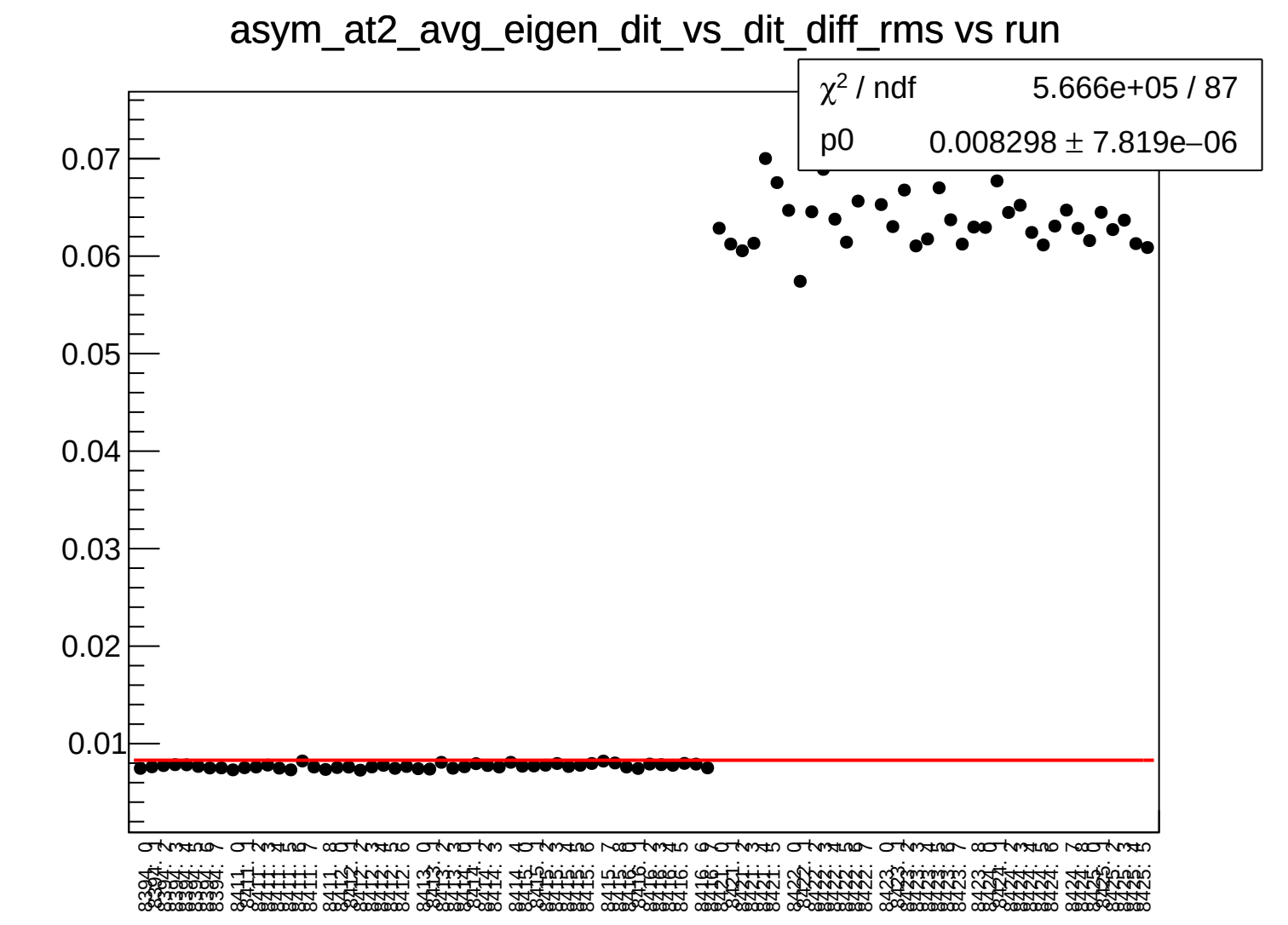

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.63 / 87
p0 −0.05175 ± 0.2427
pull
Entries 88
Mean −3075
Std Dev 0
pull1D
Entries 88
Mean −0.002142
Std Dev 1.026

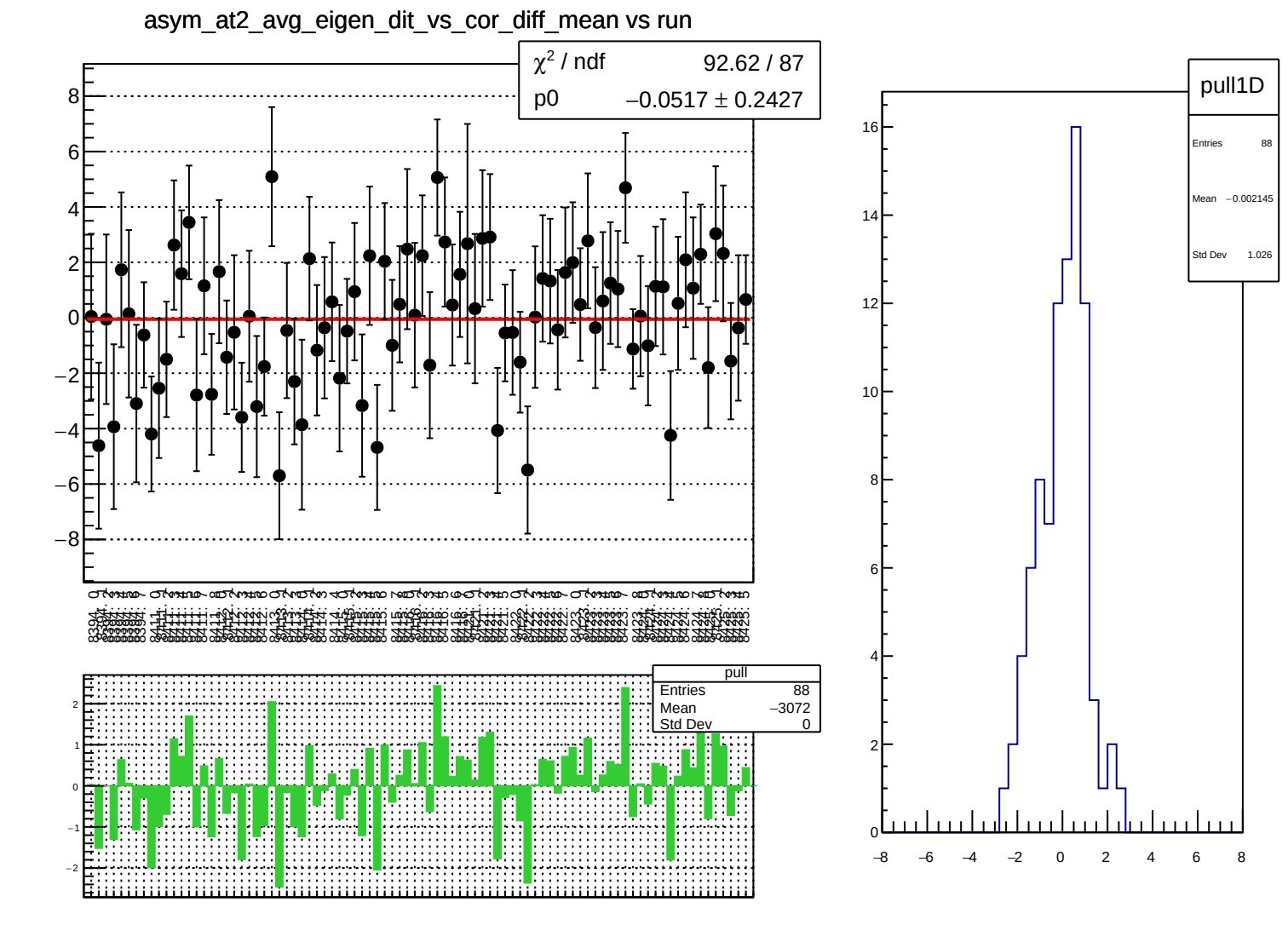

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.427e+04 / 87
p0 221.7 ± 0.1716
400
350
300
250
200
150

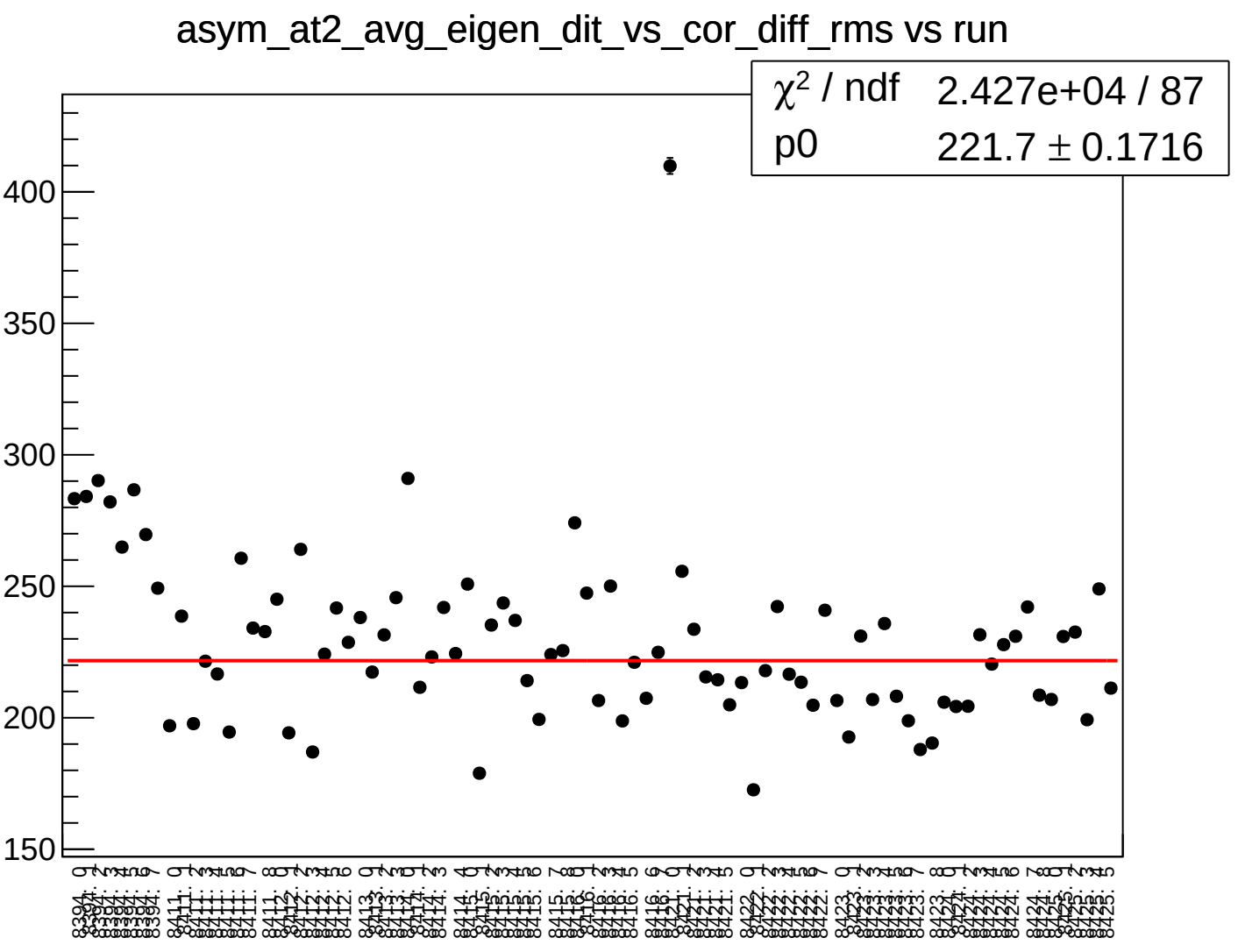

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.63 / 87
p0 −0.05175 ± 0.2427
pull
Entries 88
Mean −3075
Std Dev 0
pull1D
Entries 88
Mean −0.002142
Std Dev 1.026

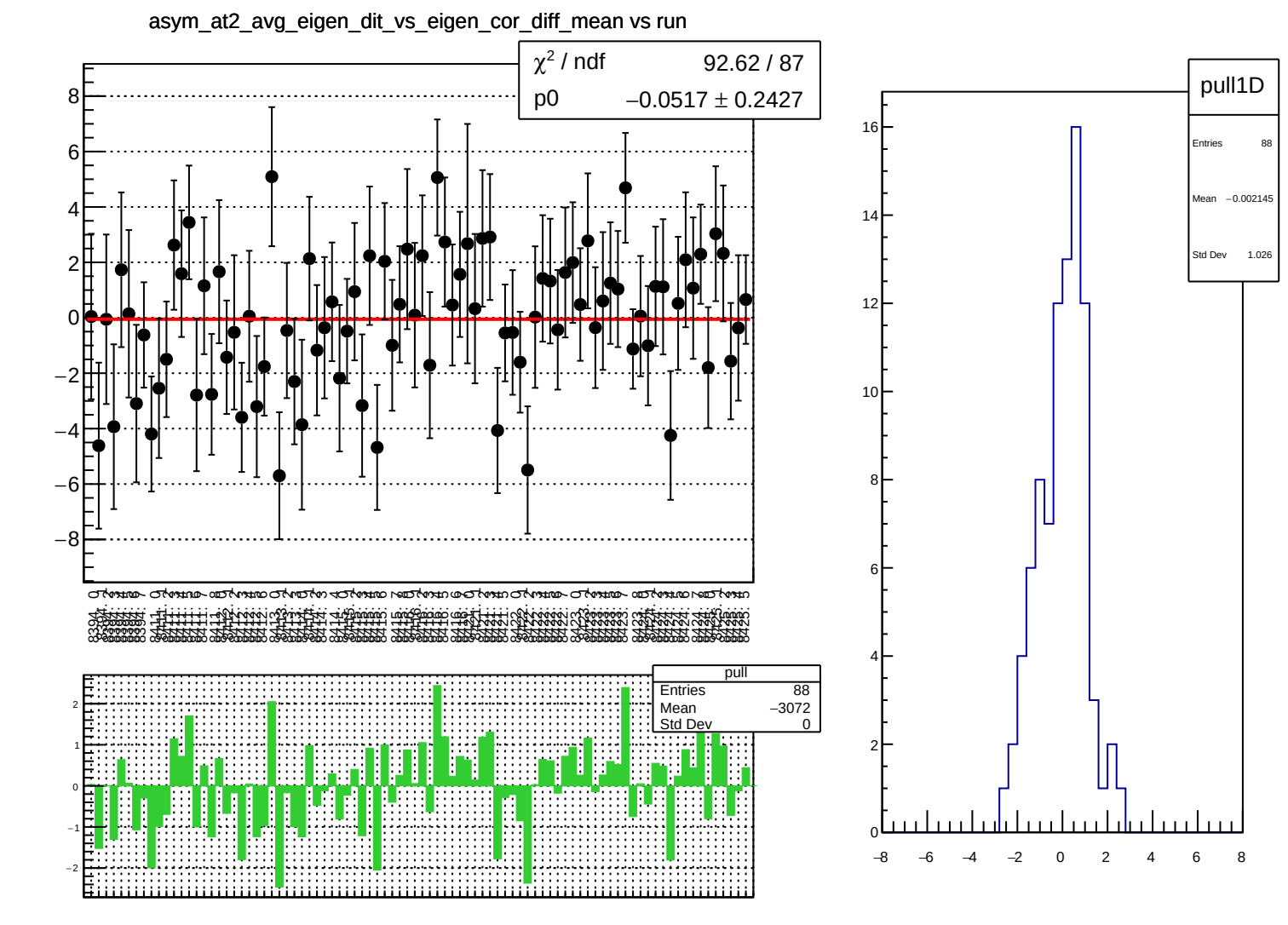

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.427e+04 / 87
p0 221.7 ± 0.1716
400
350
300
250
200
150

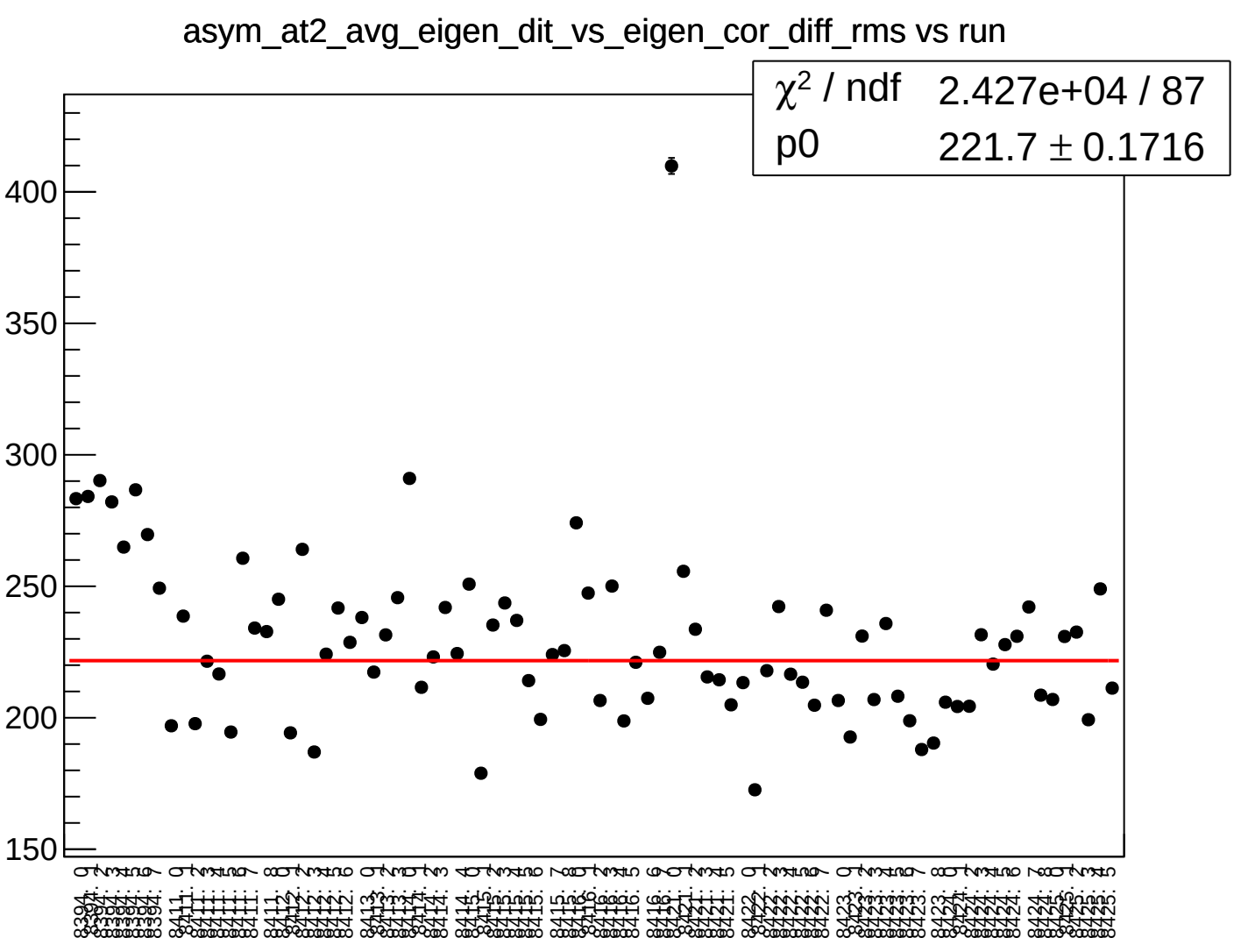

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 78.38 / 87
p0 −4.253e−05 ± 1.106e−05
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 88
Mean 70.55
Std Dev 24.83
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.1144
Std Dev 0.9368
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

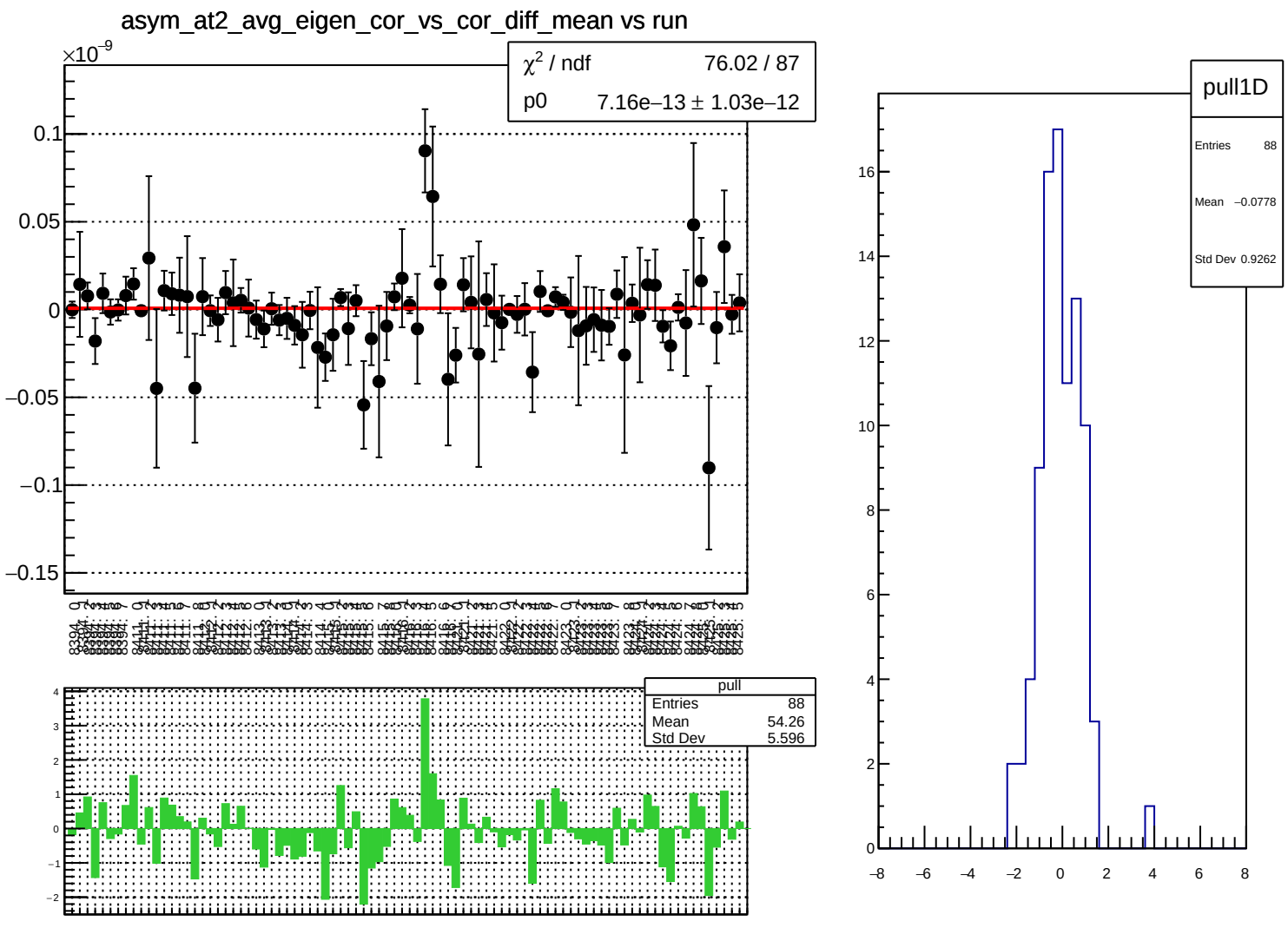

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.666e+05 / 87
p0 0.008298 ± 7.819e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

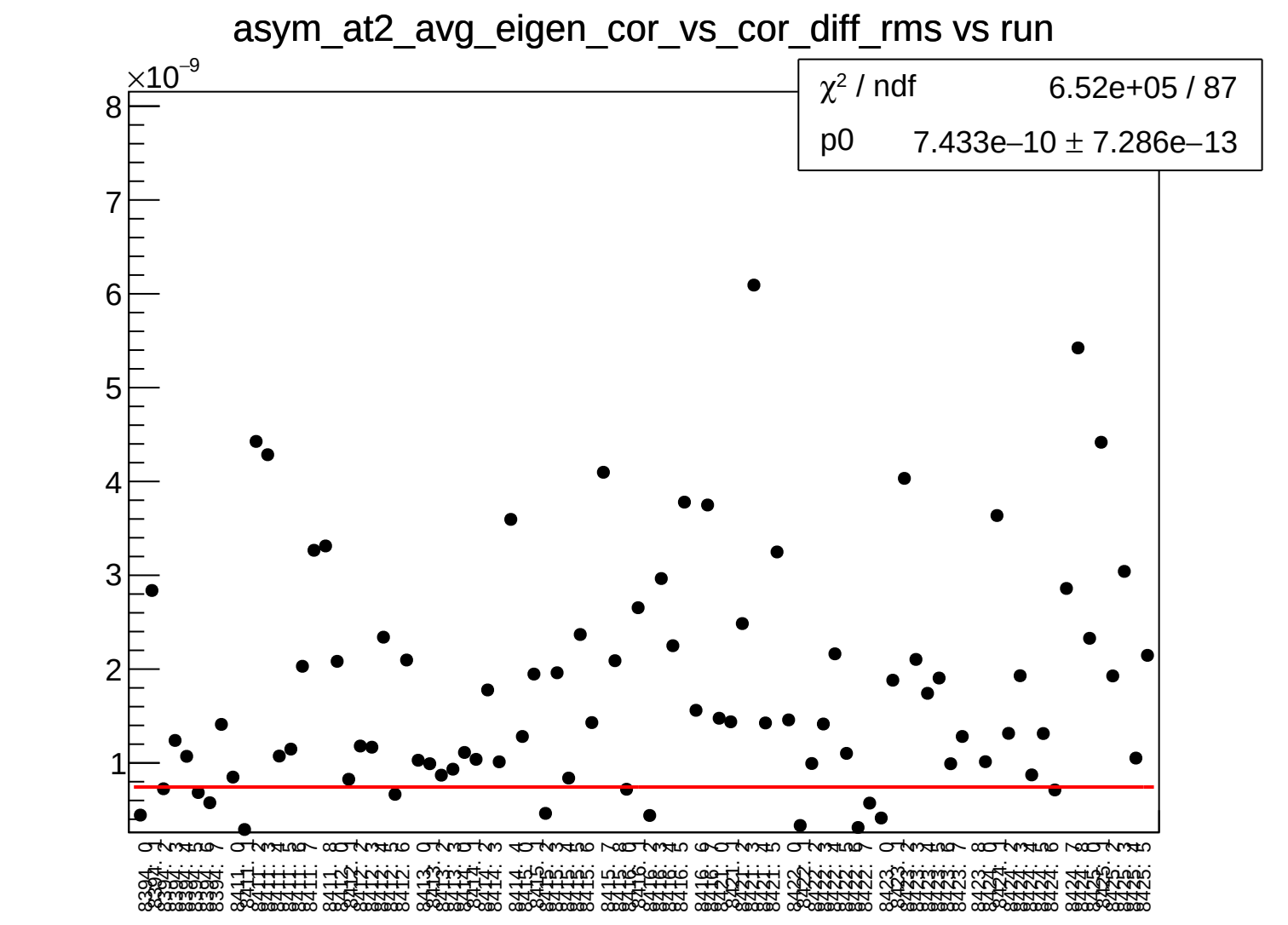

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.62 / 87
p0 −0.0517 ± 0.2427
pull
Entries 88
Mean −3072
Std Dev 0
pull1D
Entries 88
Mean −0.002145
Std Dev 1.026

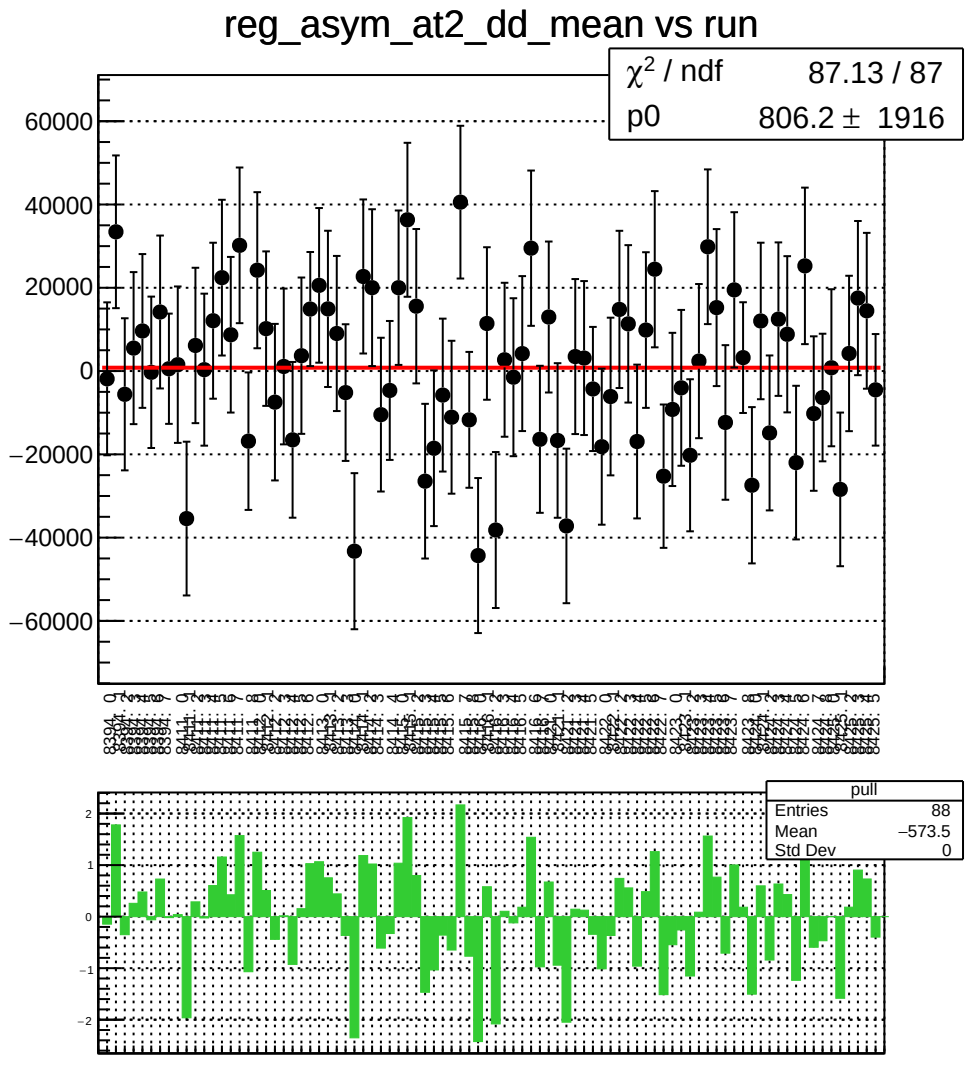

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.427e+04 / 87
p0 221.7 ± 0.1716
400
350
300
250
200
150

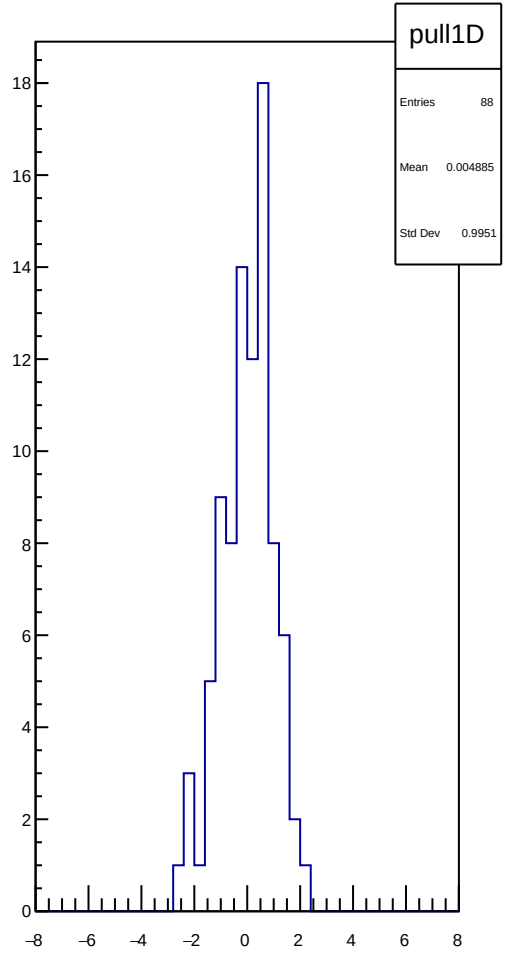

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.62 / 87
p0 −0.0517 ± 0.2427
pull
Entries 88
Mean −3072
Std Dev 0
pull1D
Entries 88
Mean −0.002145
Std Dev 1.026

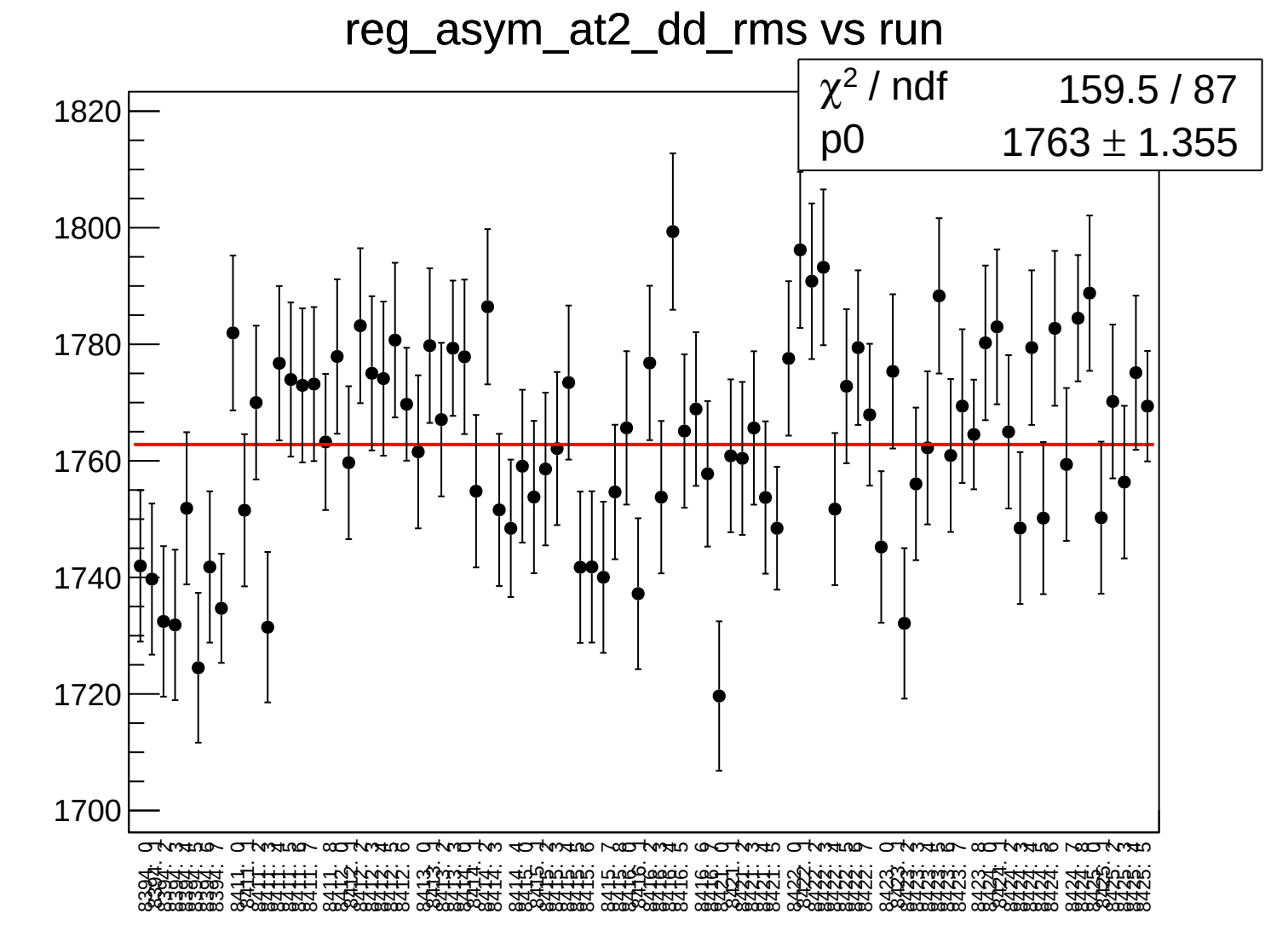

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.427e+04 / 87
p0 221.7 ± 0.1716
400
350
300
250
200
150

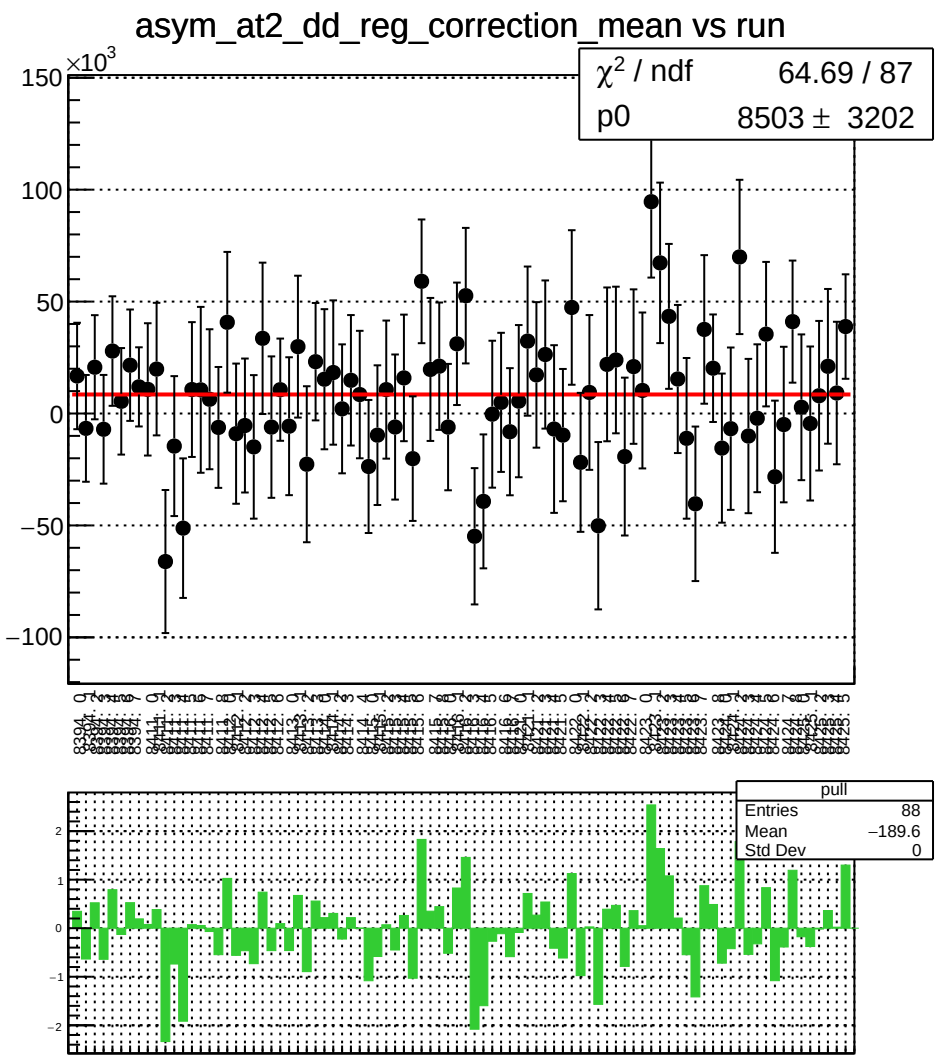

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 76.02 / 87
p0 7.16e−13 ± 1.03e−12
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 88
Mean 54.26
Std Dev 5.596
pull1D
Entries 88
Mean −0.0778
Std Dev 0.9262
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

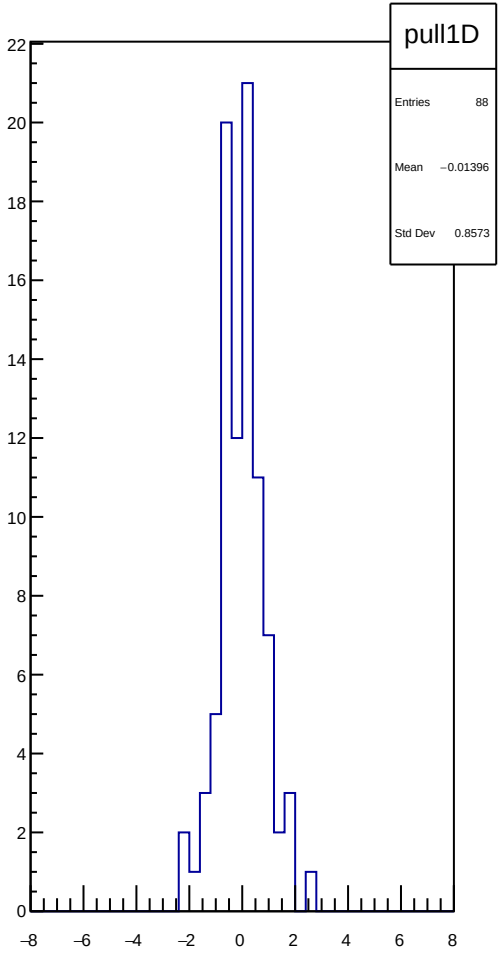

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.52e+05 / 87
p0 7.433e−10 ± 7.286e−13
8
7
6
5
4
3
2
1

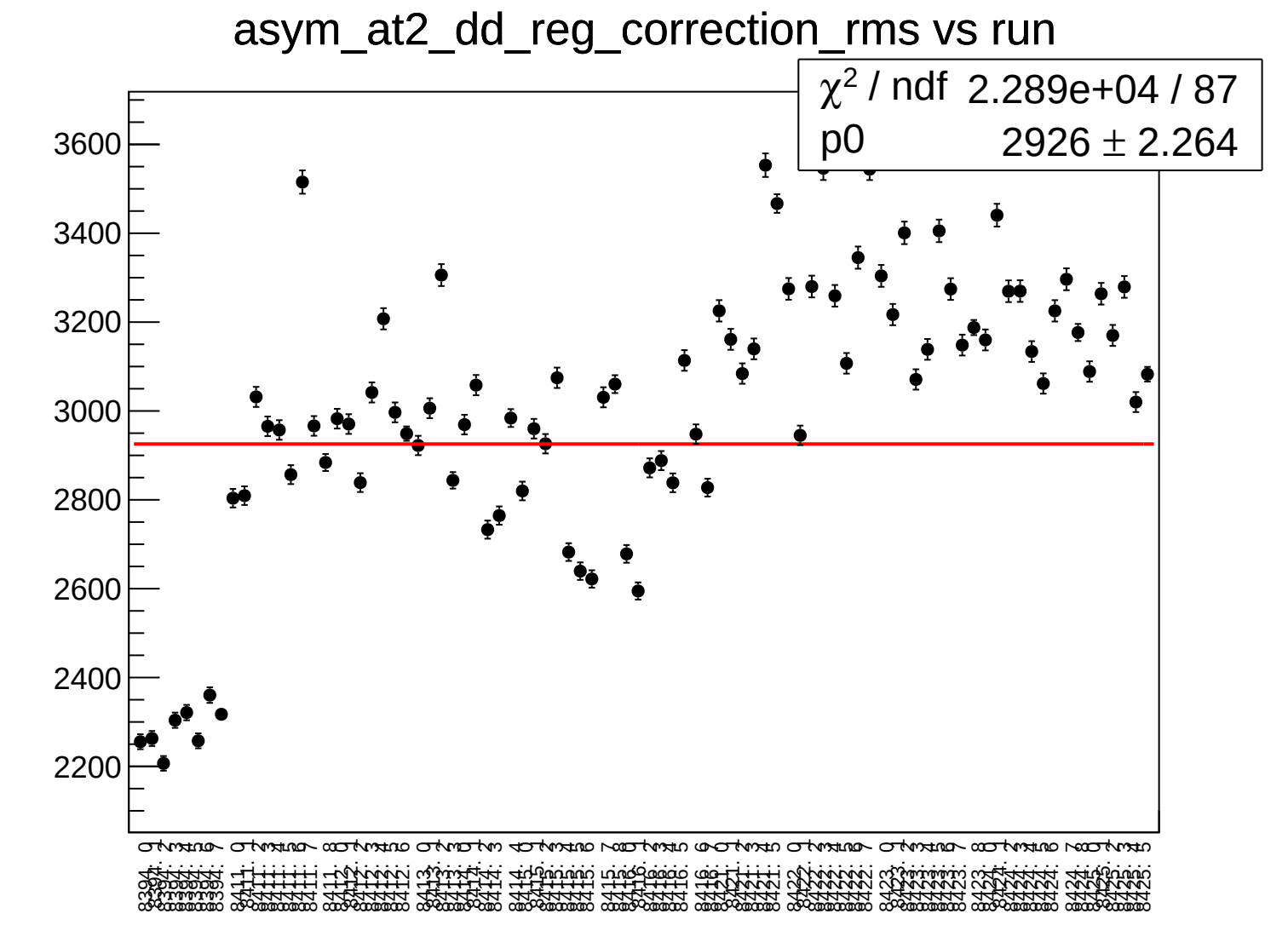

reg_asym_at2_dd_mean vs run
χ² / ndf 87.13 / 87
p0 806.2 ± 1916
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −573.5
Std Dev 0
2
1
0
−1
−2

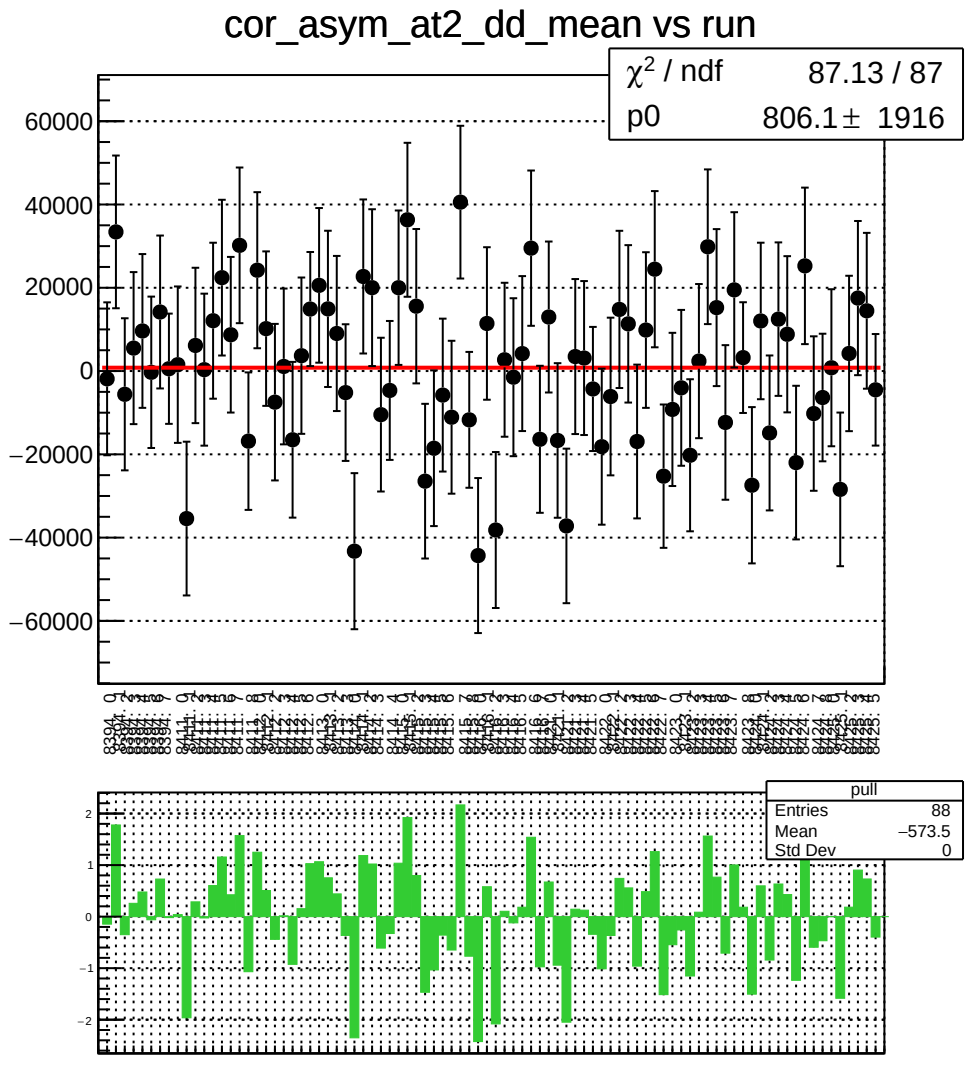

pull1D
Entries 88
Mean 0.004885
Std Dev 0.9951
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

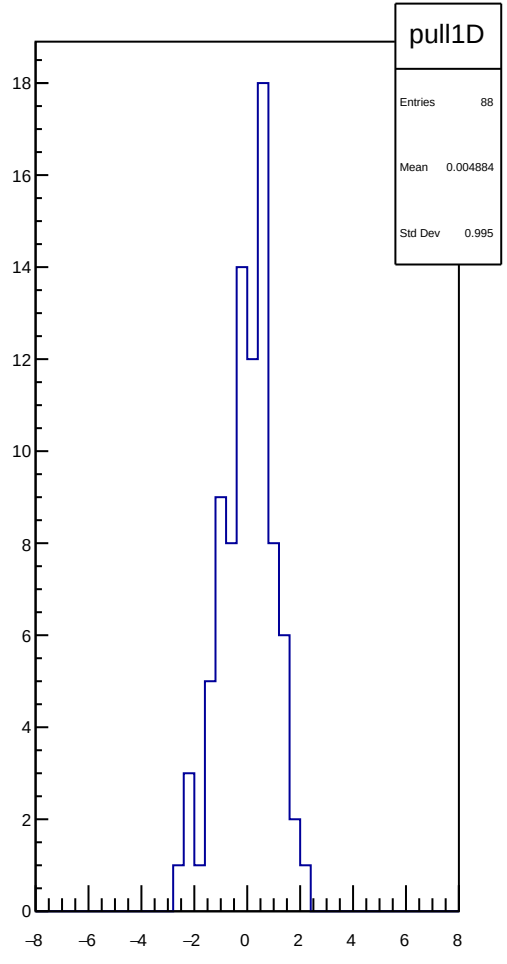

reg_asym_at2_dd_rms vs run
χ² / ndf 159.5 / 87
p0 1763 ± 1.355
1820
1800
1780
1760
1740
1720
1700

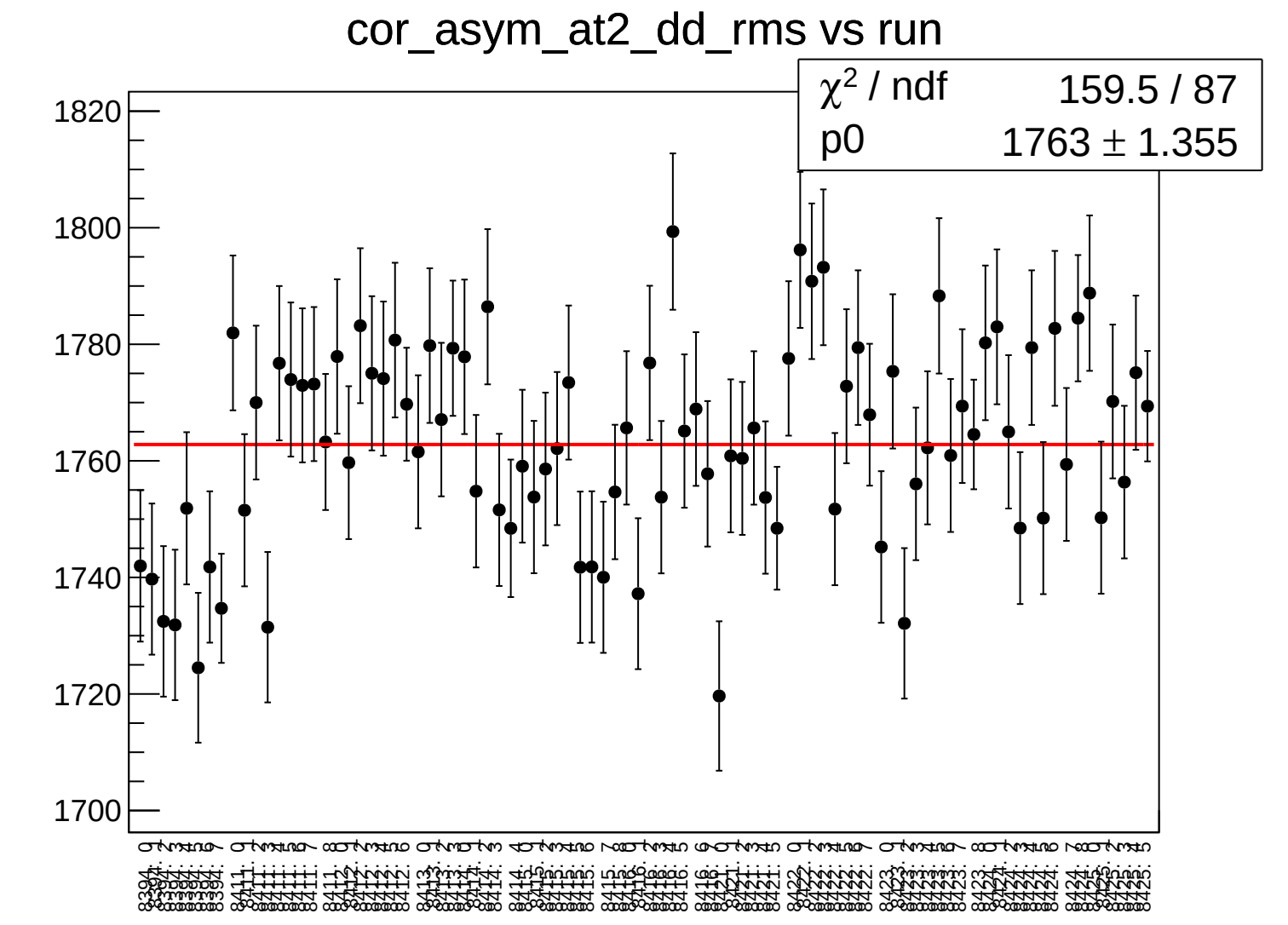

asym_at2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 64.69 / 87
p0 8503 ± 3202
150
100
50
0
−50
−100
pull
Entries 88
Mean −189.6
Std Dev 0
2
1
0
−1
−2

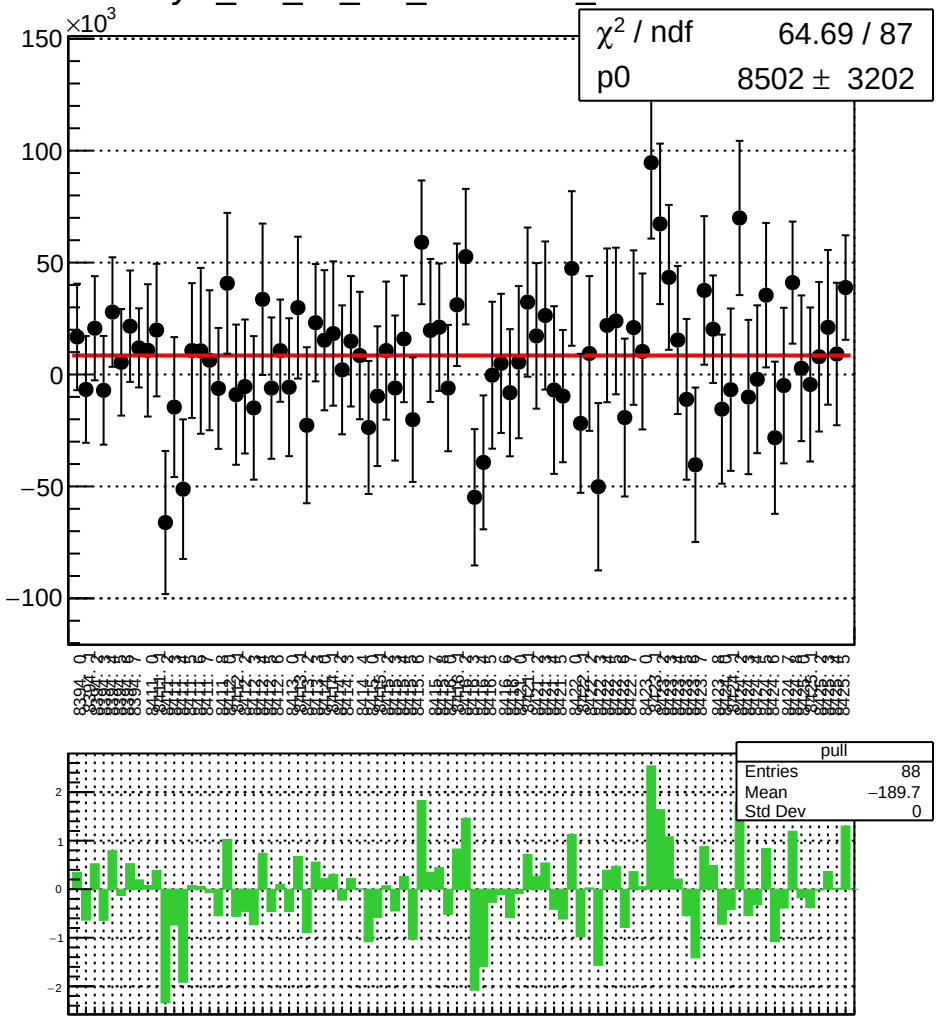

pull1D
Entries 88
Mean −0.01396
Std Dev 0.8573
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

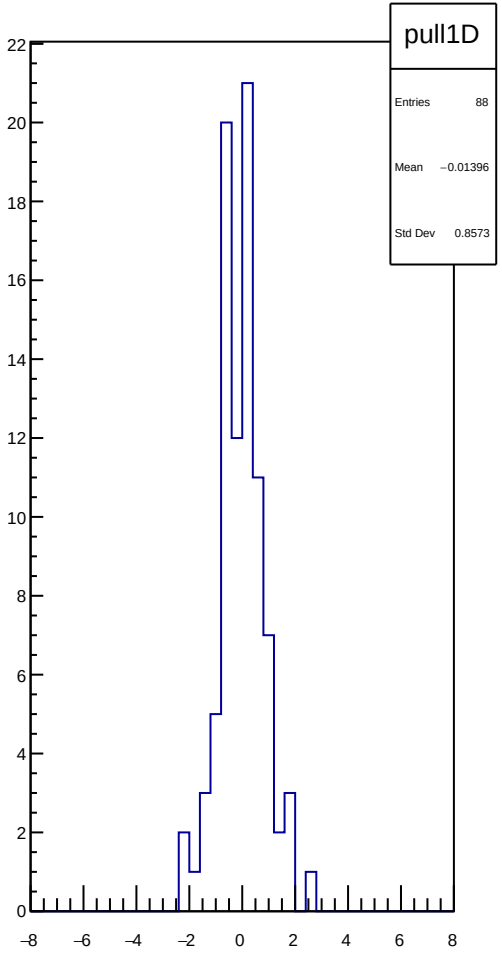

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 2.289e+04 / 87
p0 2926 ± 2.264
3600
3400
3200
3000
2800
2600
2400
2200

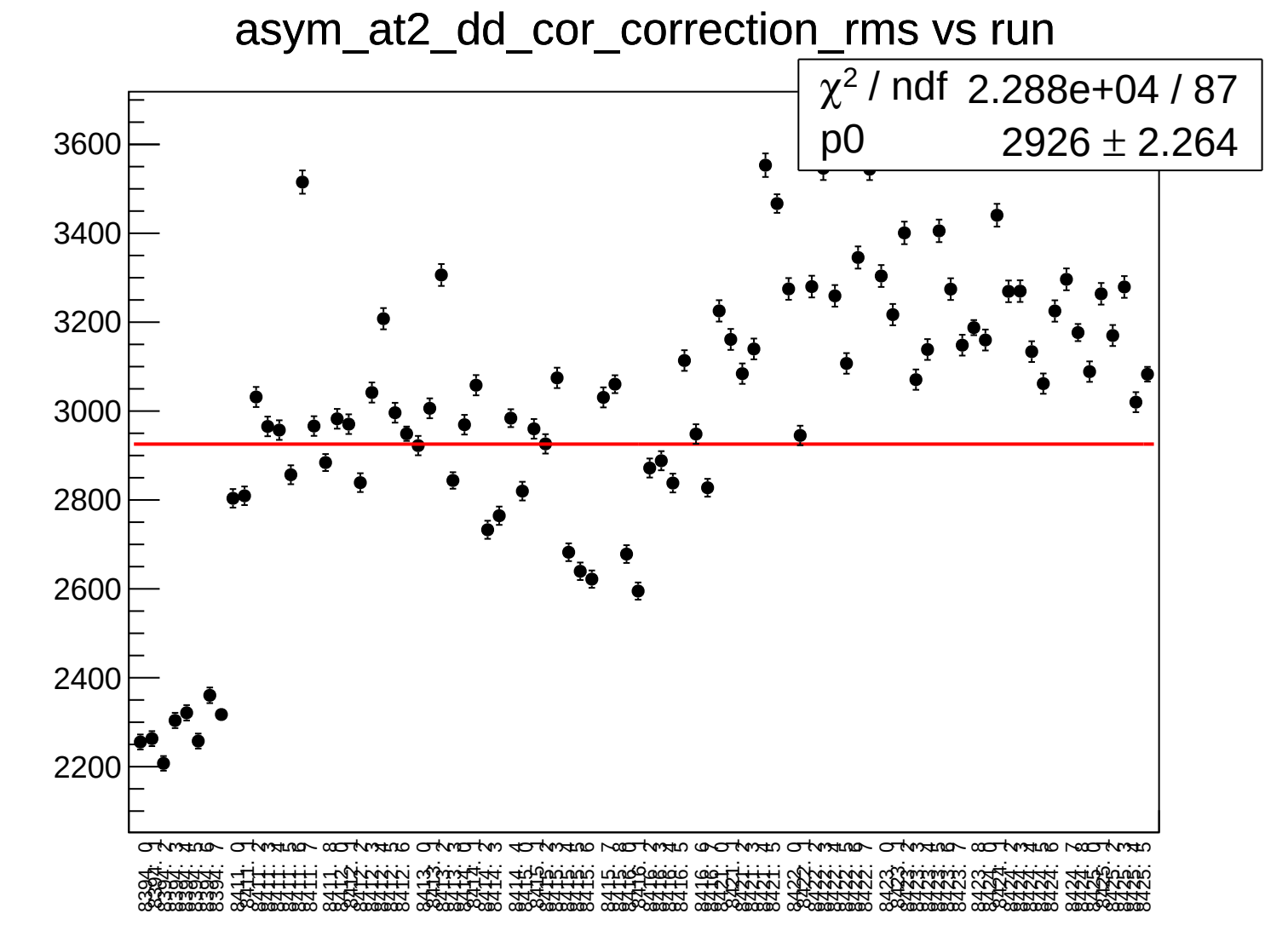

cor_asym_at2_dd_mean vs run
χ² / ndf 87.13 / 87
p0 806.1 ± 1916
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −573.5
Std Dev 0
2
1
0
−1
−2

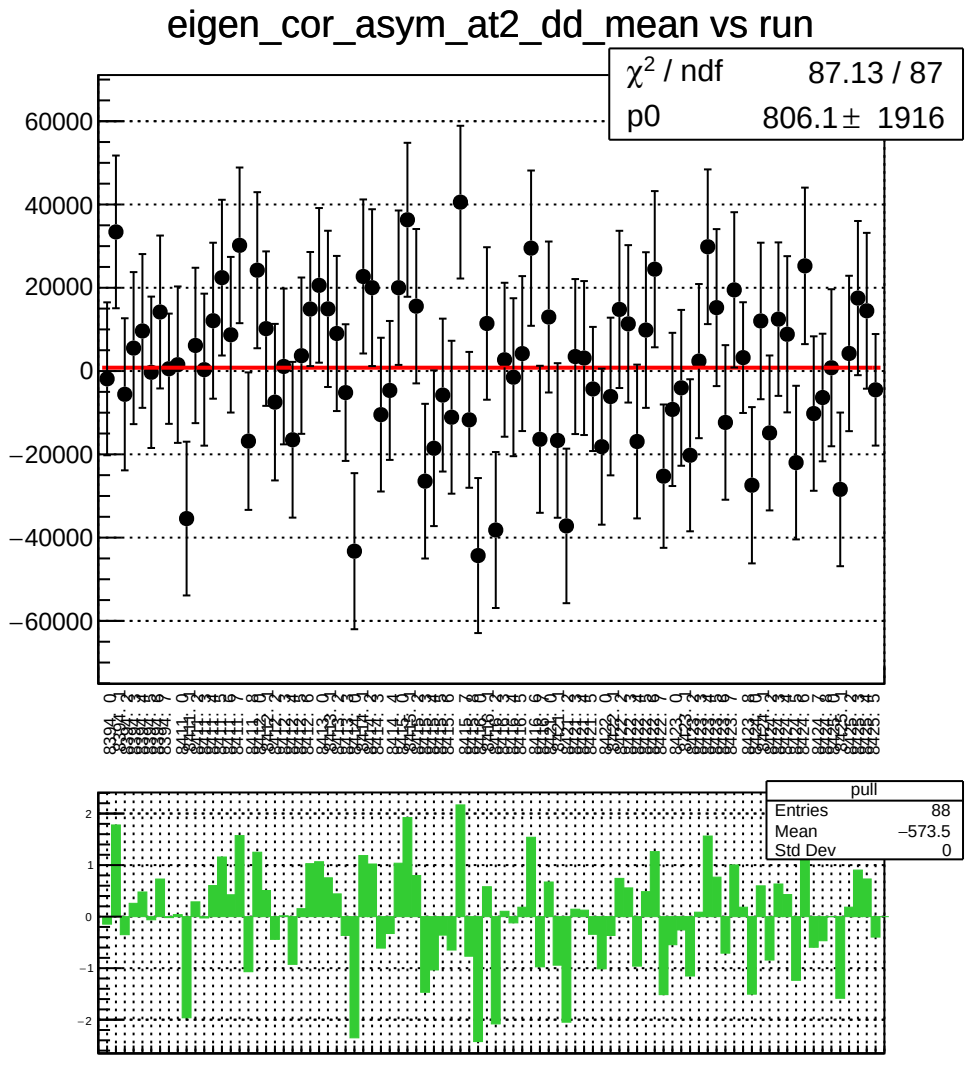

pull1D
Entries 88
Mean 0.004884
Std Dev 0.995
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

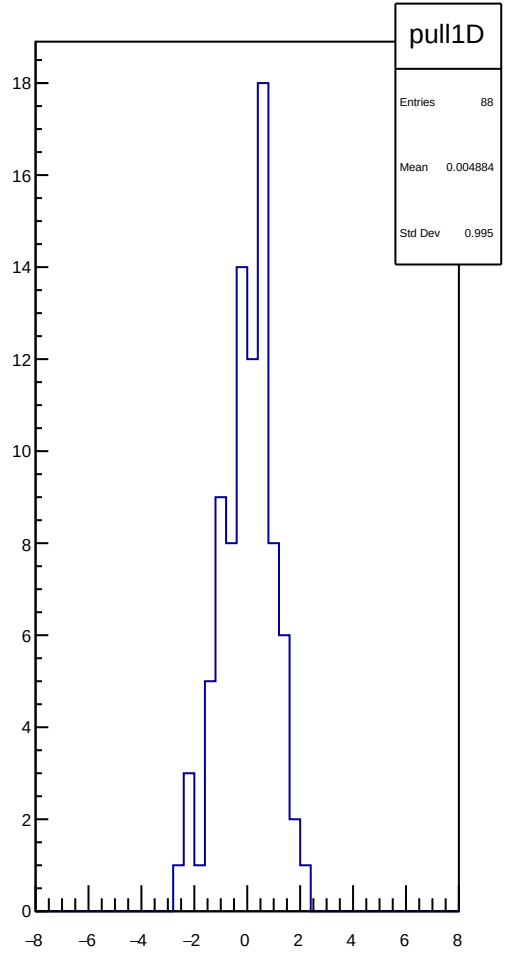

cor_asym_at2_dd_rms vs run
χ² / ndf 159.5 / 87
p0 1763 ± 1.355
1820
1800
1780
1760
1740
1720
1700

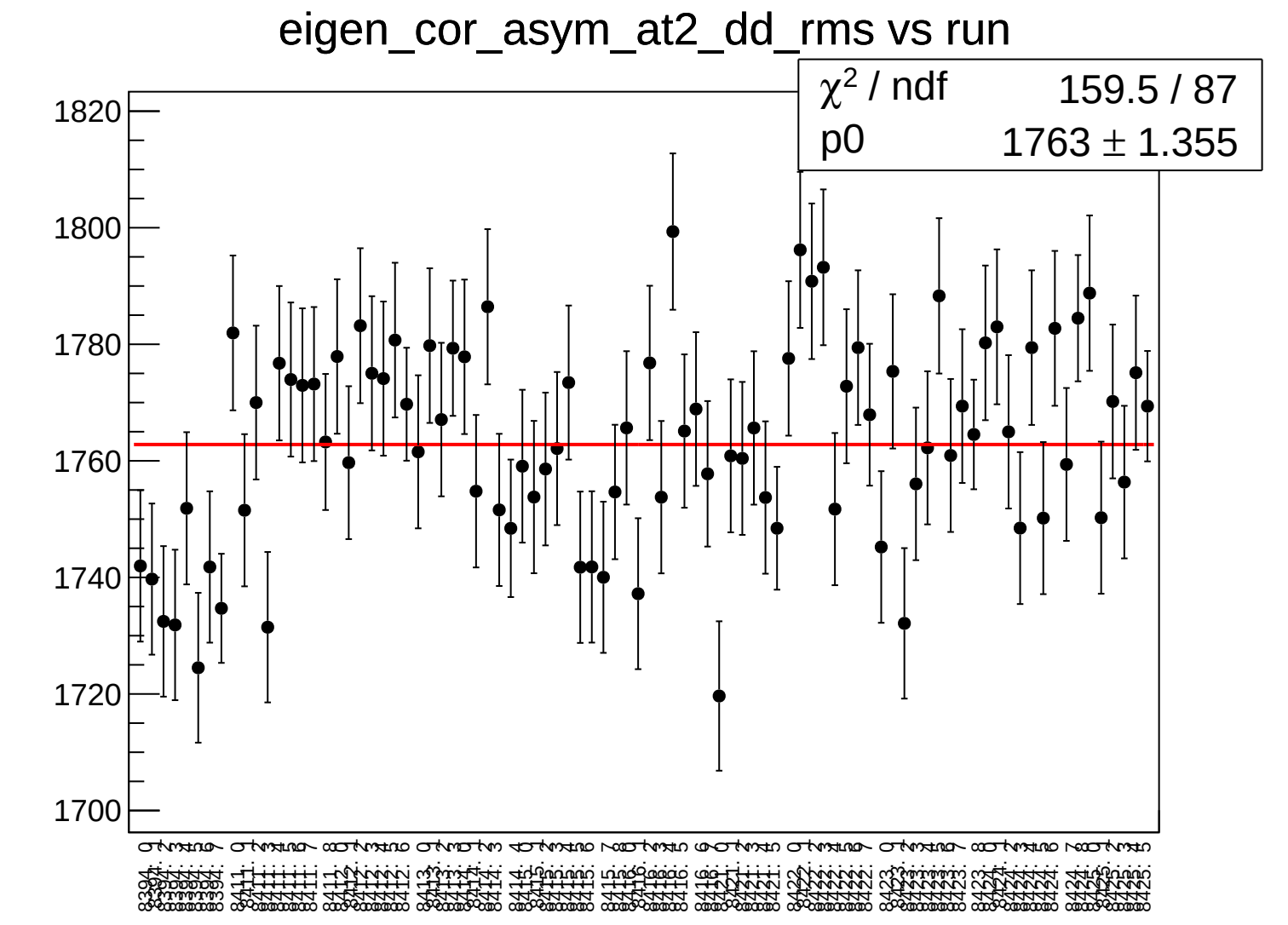

asym_at2_dd_cor_correction_mean vs run
χ² / ndf 64.69 / 87
p0 8502 ± 3202
×10³
150
100
50
0
−50
−100
pull
Entries 88
Mean −189.7
Std Dev 0
2
1
0
−1
−2

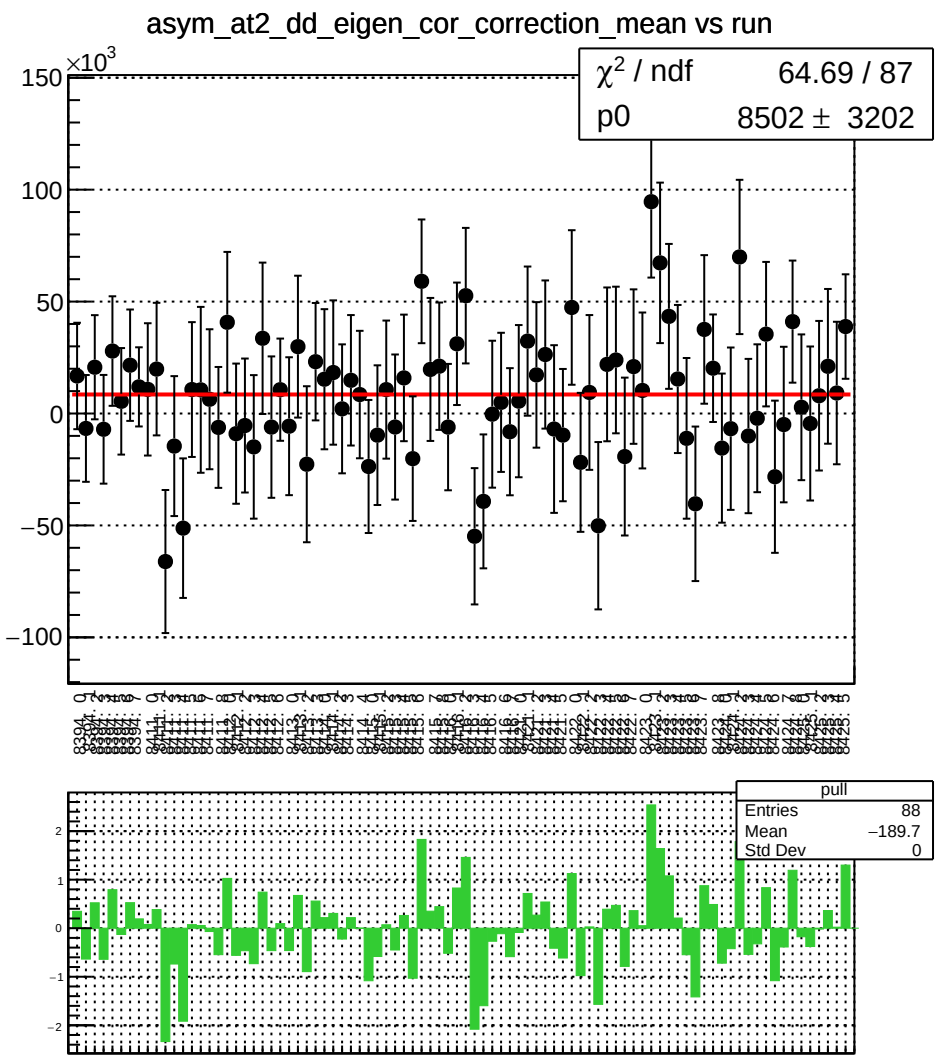

pull1D
Entries 88
Mean −0.01396
Std Dev 0.8573
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

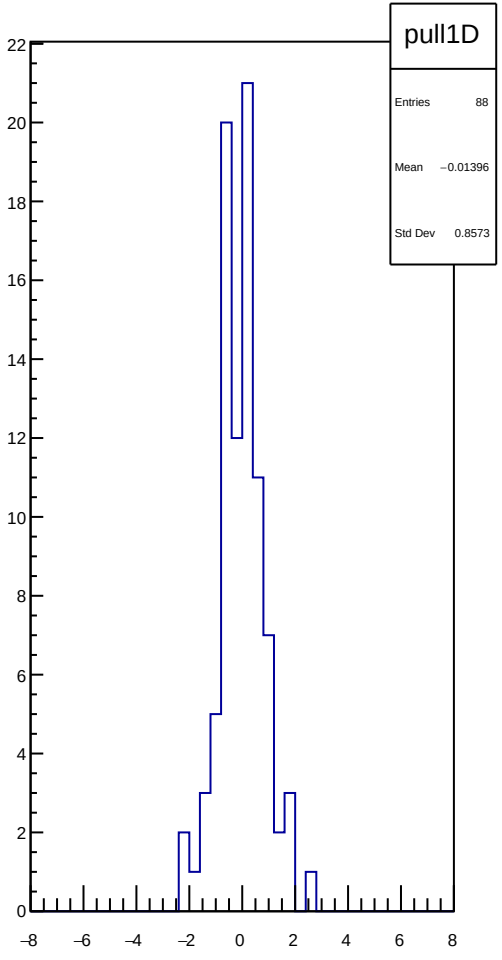

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 2.288e+04 / 87
p0 2926 ± 2.264
3600
3400
3200
3000
2800
2600
2400
2200

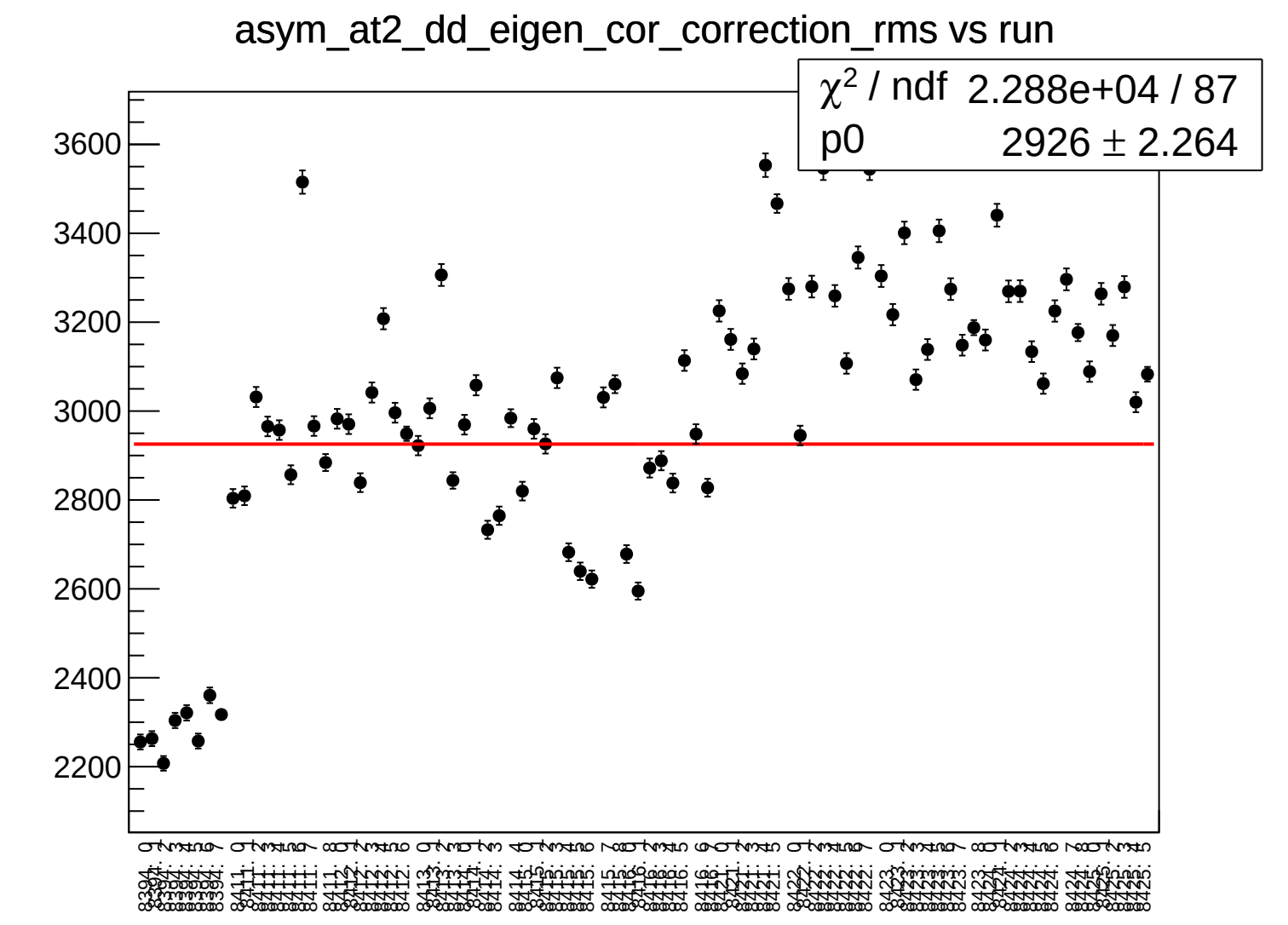

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 87.13 / 87
p0 806.1 ± 1916
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −573.5
Std Dev 0
2
1
0
−1
−2

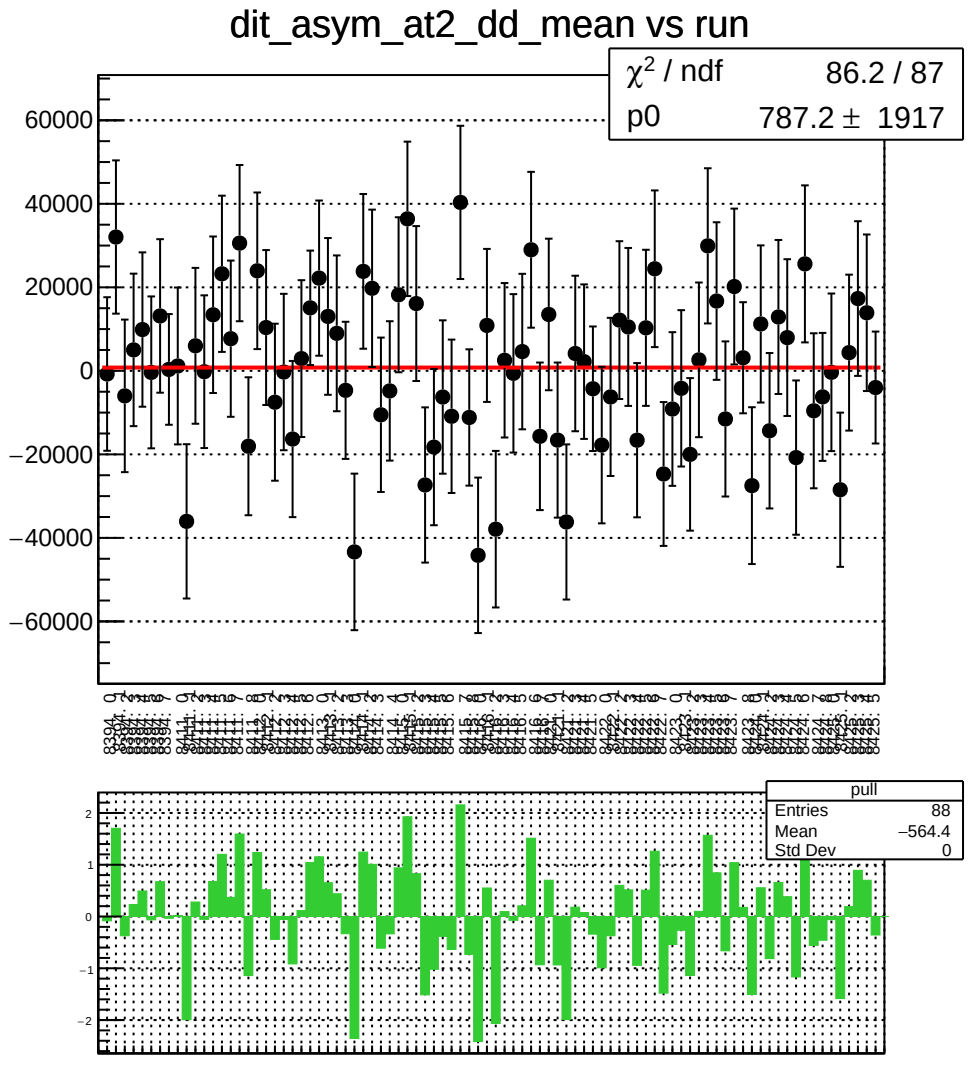

pull1D
Entries 88
Mean 0.004884
Std Dev 0.995
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

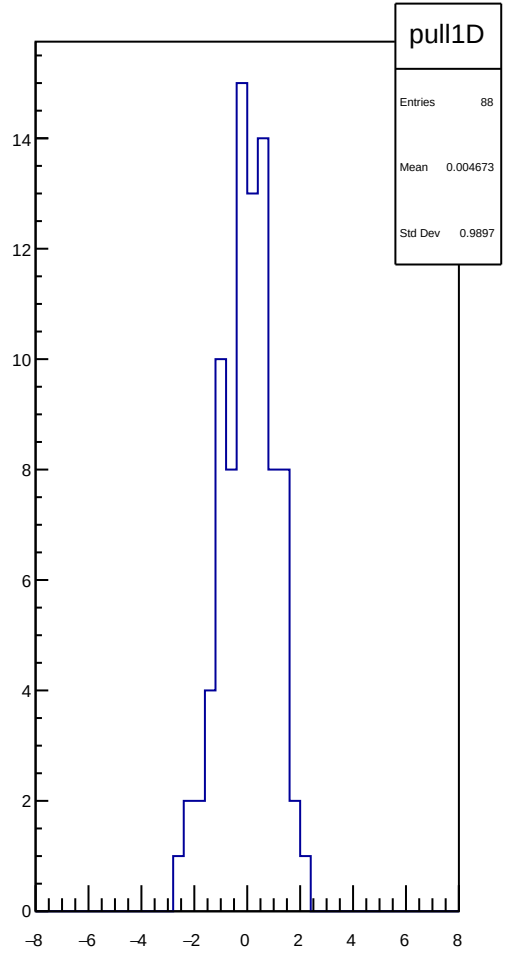

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 159.5 / 87
p0 1763 ± 1.355
1820
1800
1780
1760
1740
1720
1700

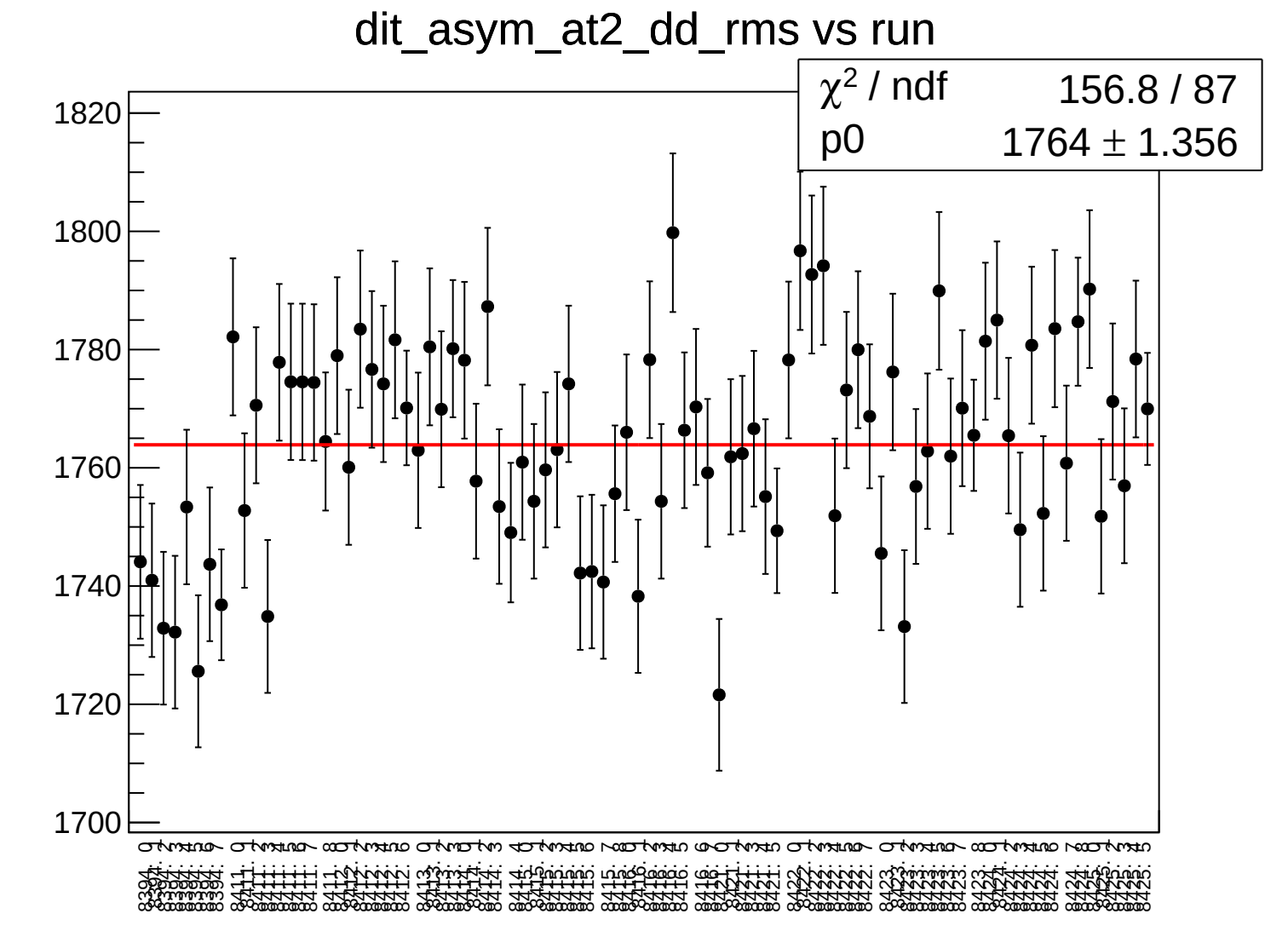

asym_at2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 64.69 / 87
p0 8502 ± 3202
150
100
50
0
−50
−100
pull
Entries 88
Mean −189.7
Std Dev 0
2
1
0
−1
−2

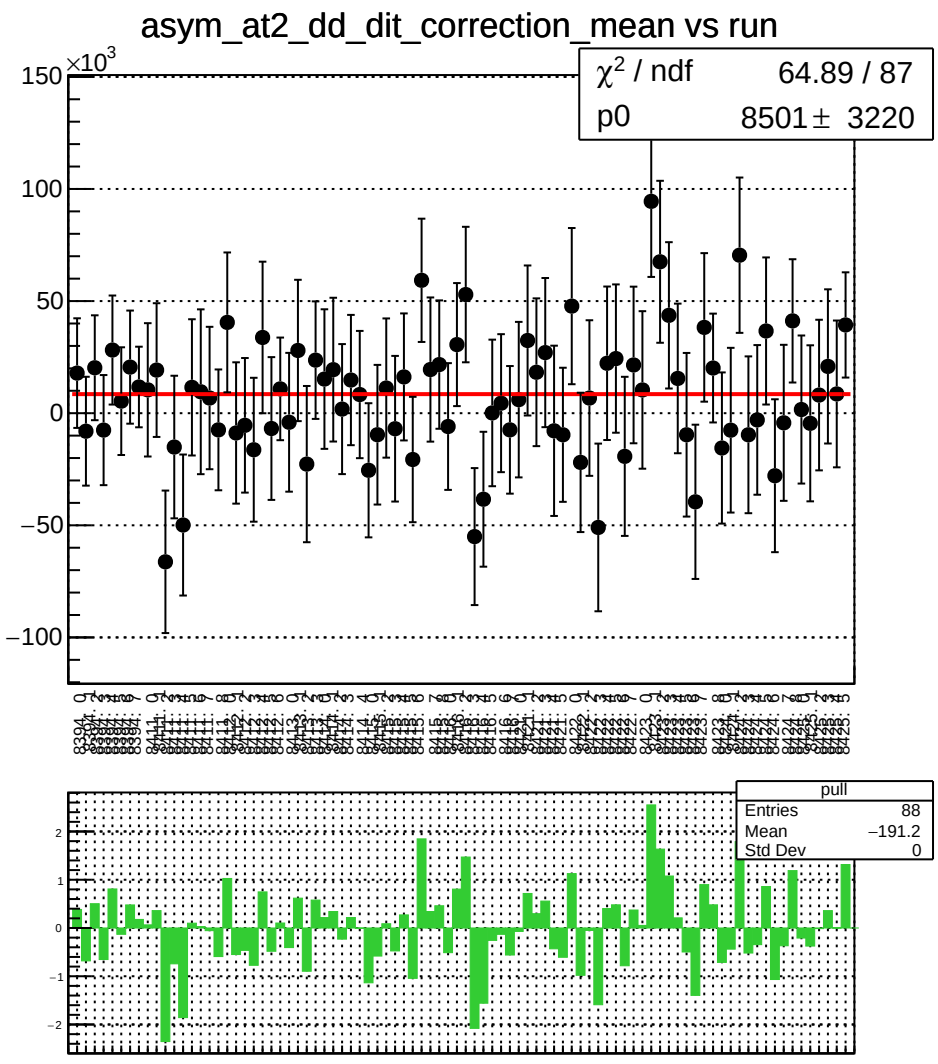

pull1D
Entries 88
Mean −0.01396
Std Dev 0.8573
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

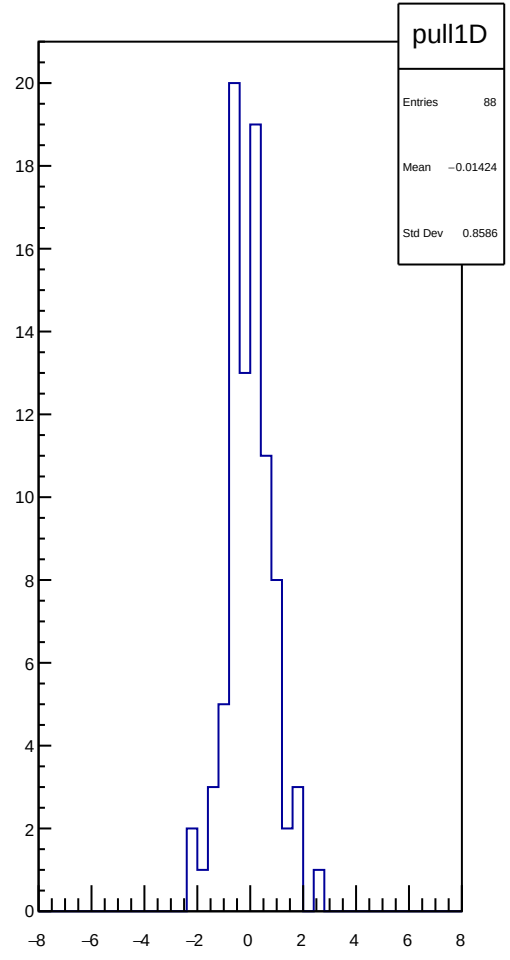

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.288e+04 / 87
p0 2926 ± 2.264
3600
3400
3200
3000
2800
2600
2400
2200

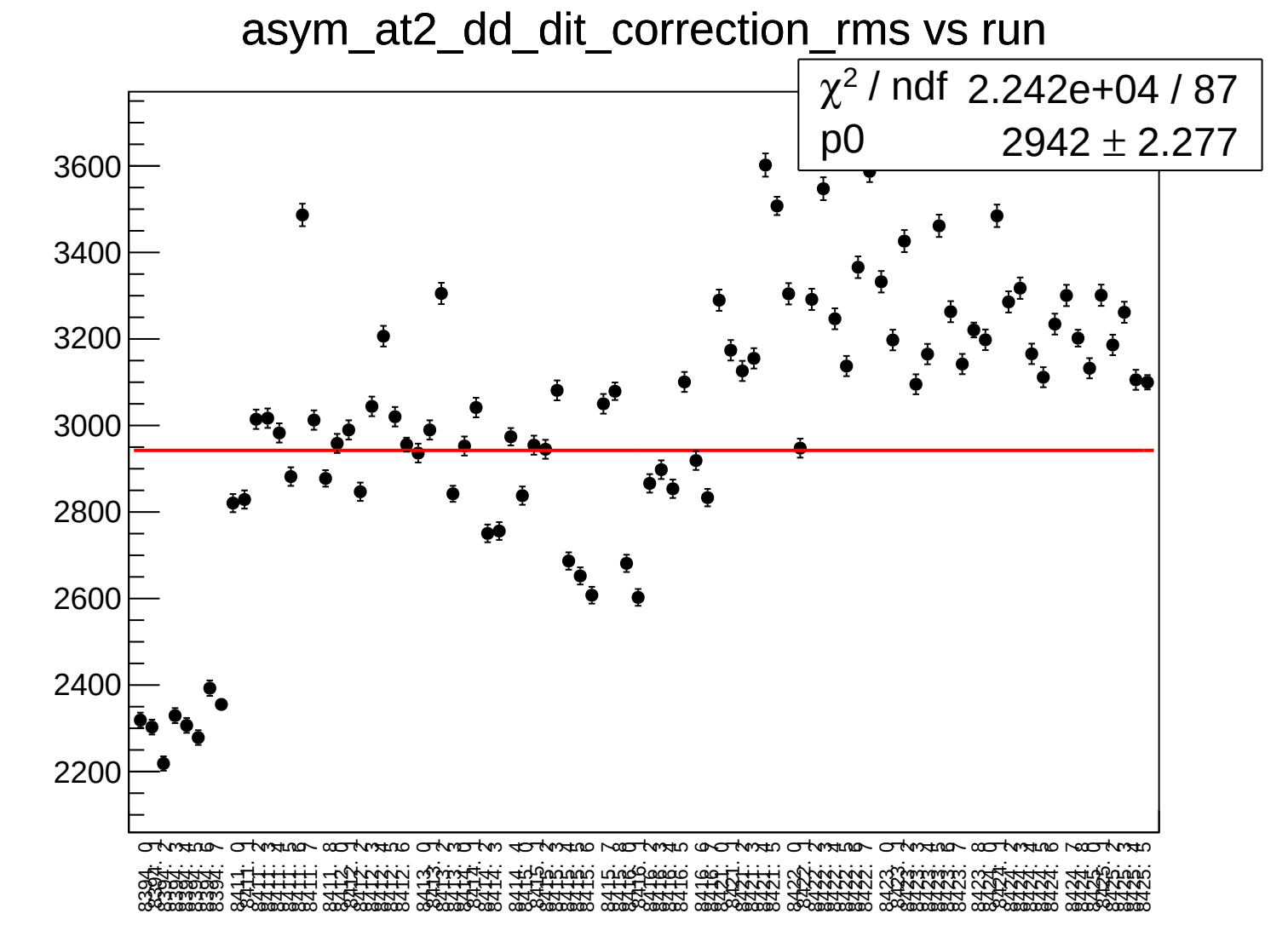

dit_asym_at2_dd_mean vs run
χ² / ndf 86.2 / 87
p0 787.2 ± 1917
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −564.4
Std Dev 0
2
1
0
−1
−2

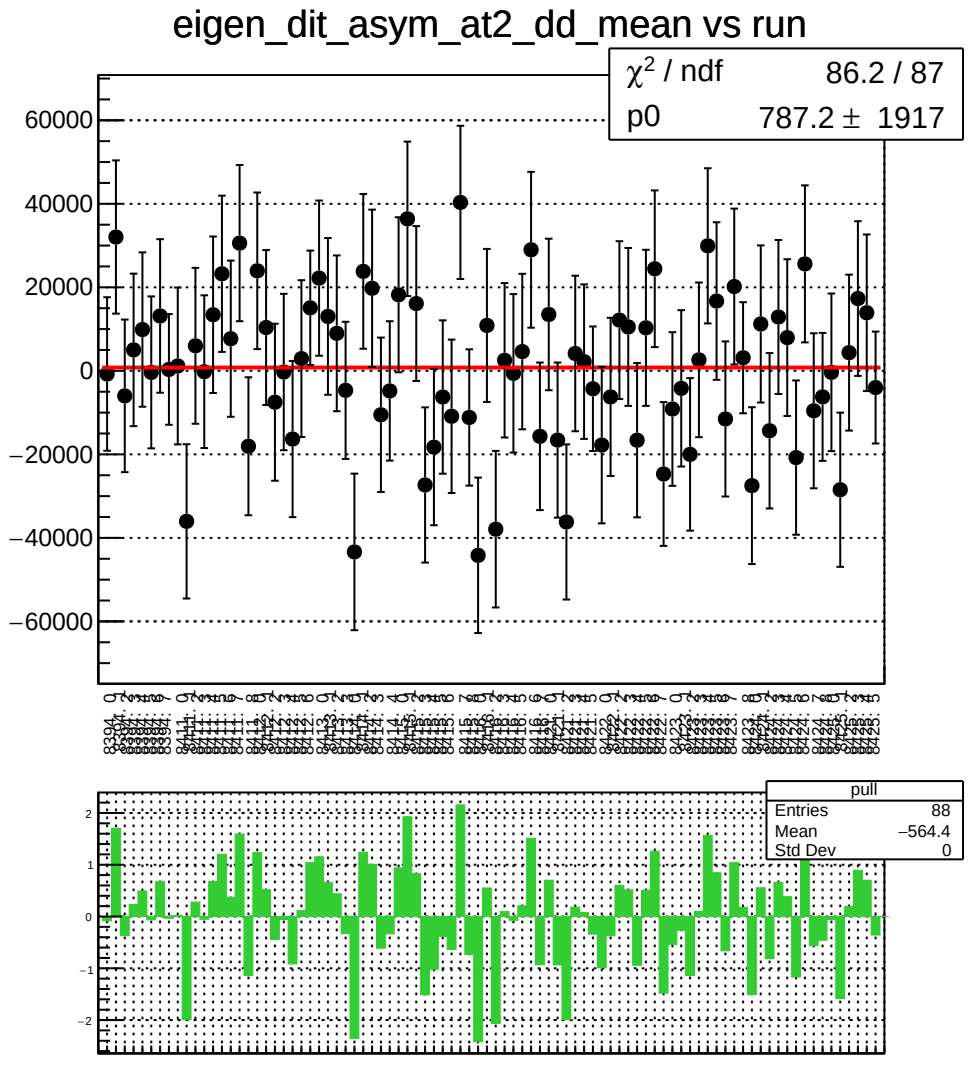

pull1D
Entries 88
Mean 0.004673
Std Dev 0.9897
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

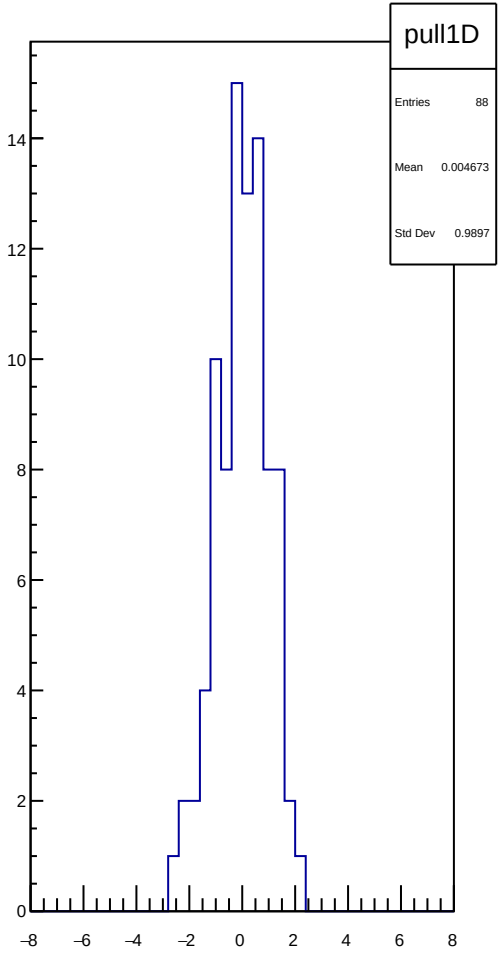

dit_asym_at2_dd_rms vs run
χ^2 / ndf 156.8 / 87
p0 1764 ± 1.356
1820
1800
1780
1760
1740
1720
1700

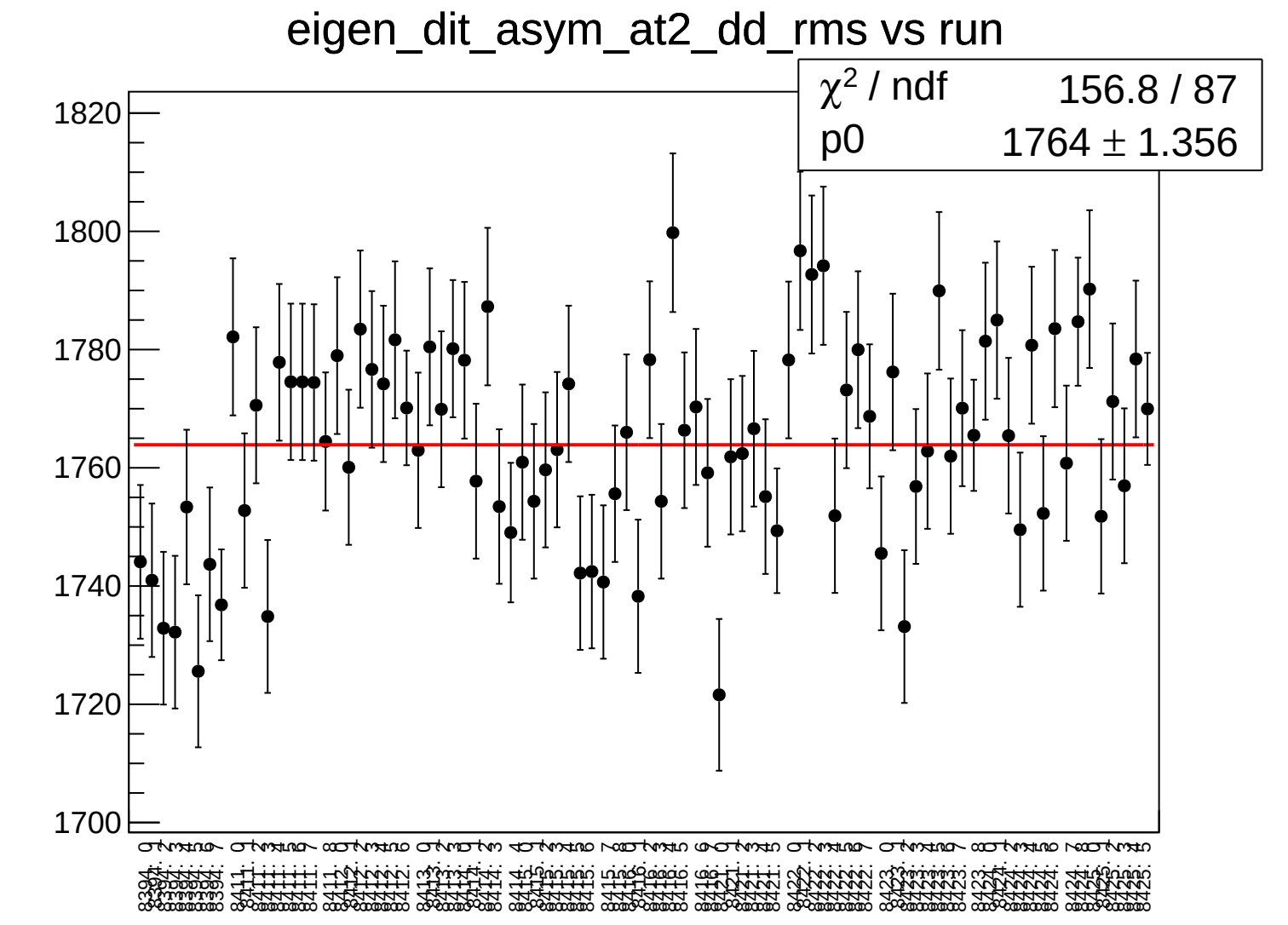

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 64.89 / 87
p0 8501 ± 3220
×10³
150
100
50
0
−50
−100
pull
Entries 88
Mean −191.2
Std Dev 0
2
1
0
−1
−2

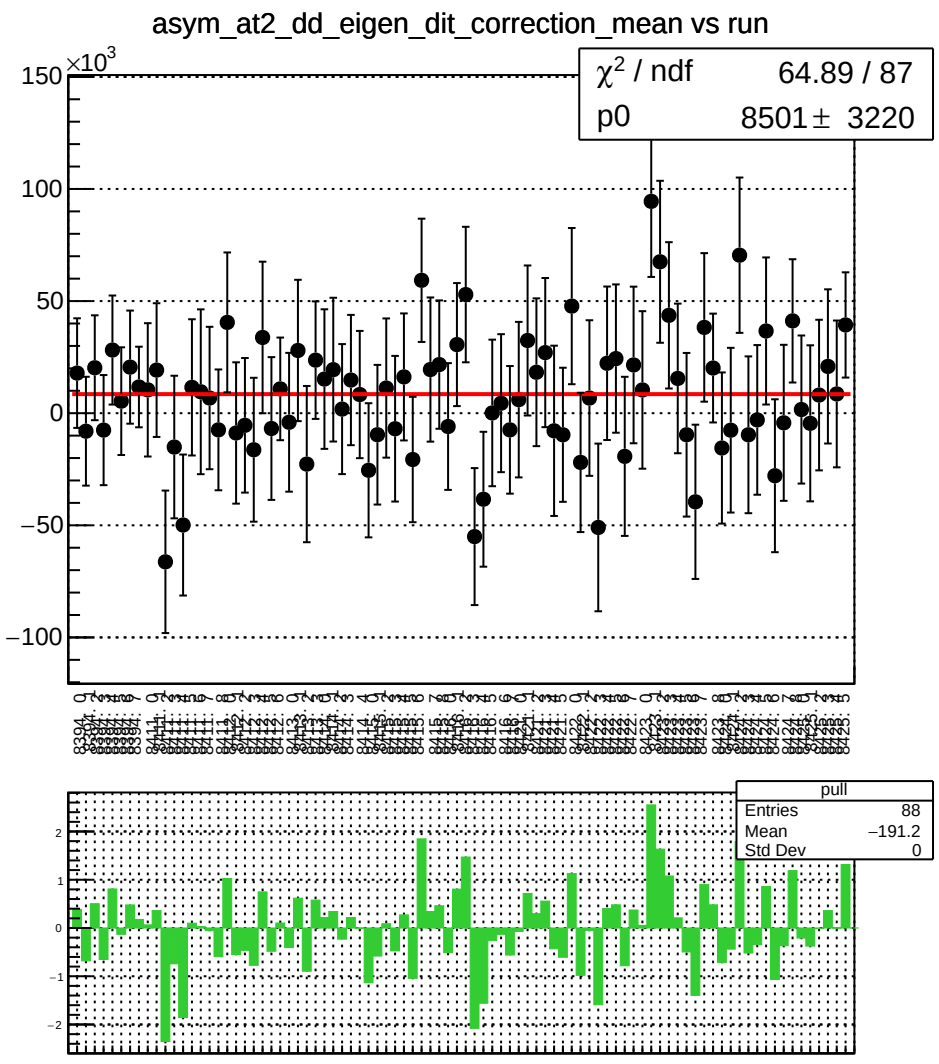

pull1D
Entries 88
Mean −0.01424
Std Dev 0.8586
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

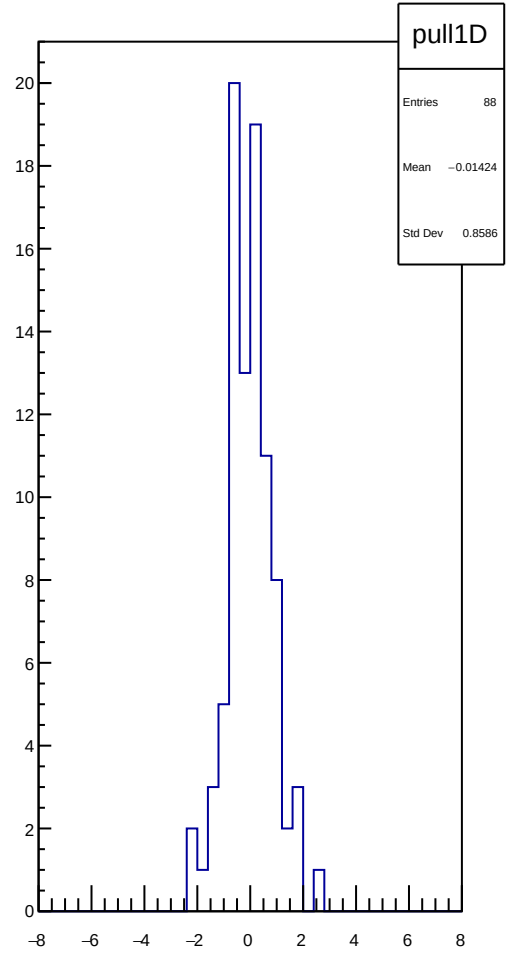

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 2.242e+04 / 87
p0 2942 ± 2.277
3600
3400
3200
3000
2800
2600
2400
2200

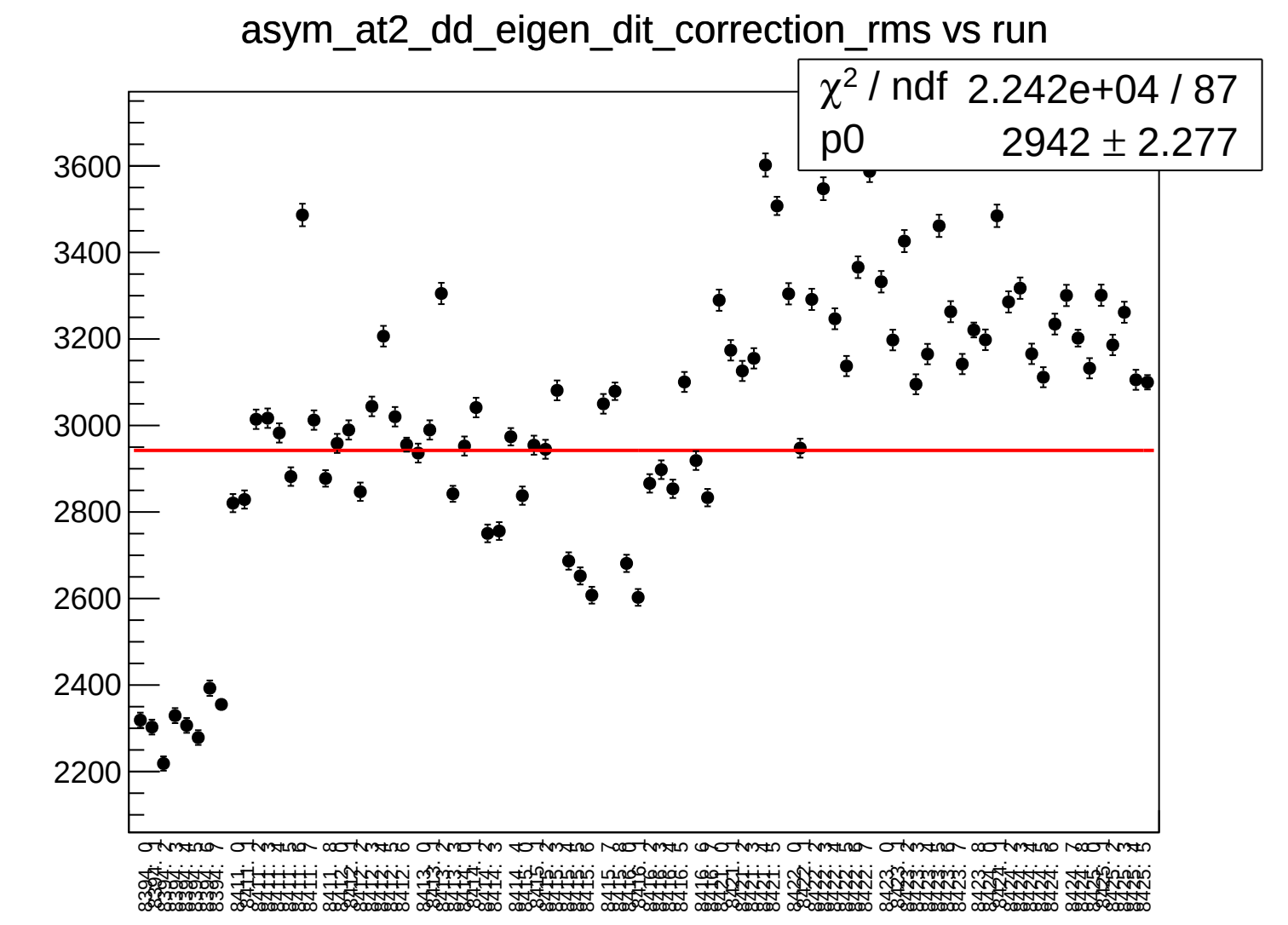

eigen_dit_asym_at2_dd_mean vs run
χ^2 / ndf 86.2 / 87
p0 787.2 ± 1917
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −564.4
Std Dev 0
2
1
0
−1
−2

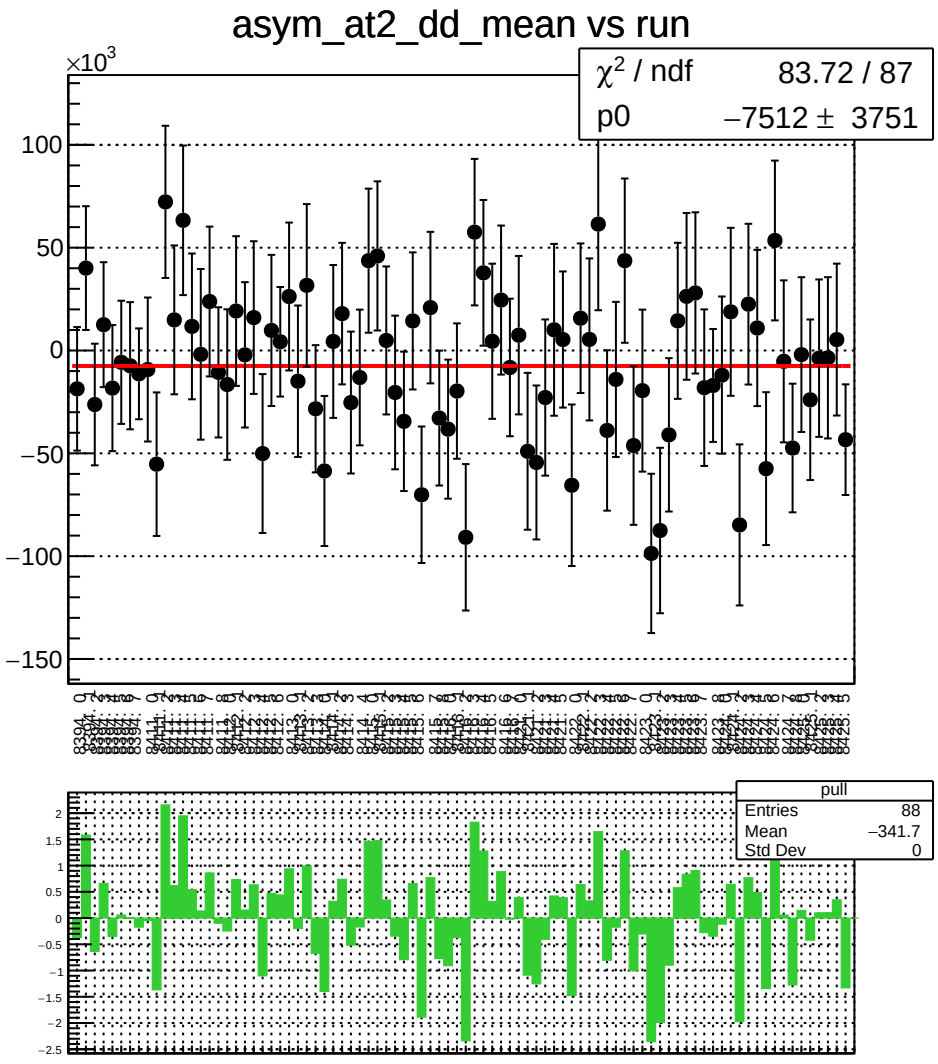

pull1D
Entries 88
Mean 0.004673
Std Dev 0.9897
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

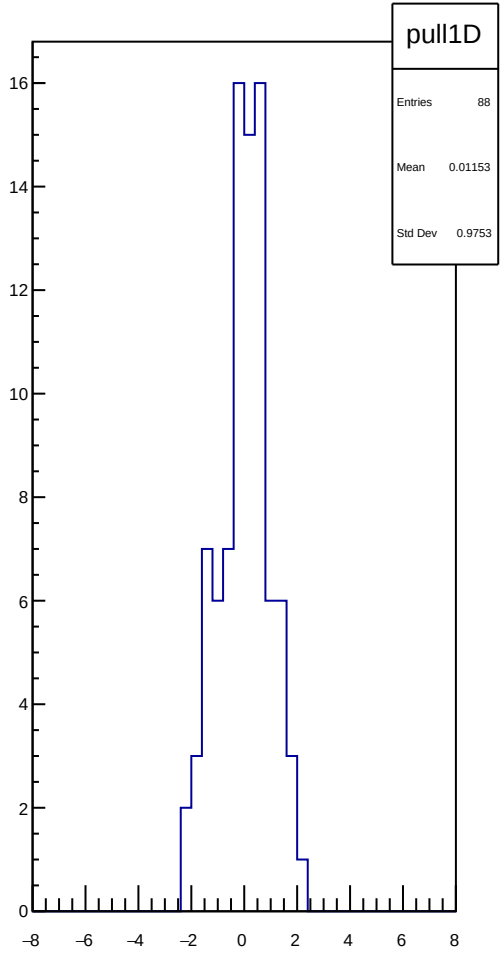

eigen_dit_asym_at2_dd_rms vs run
χ^2 / ndf 156.8 / 87
p0 1764 ± 1.356
1820
1800
1780
1760
1740
1720
1700

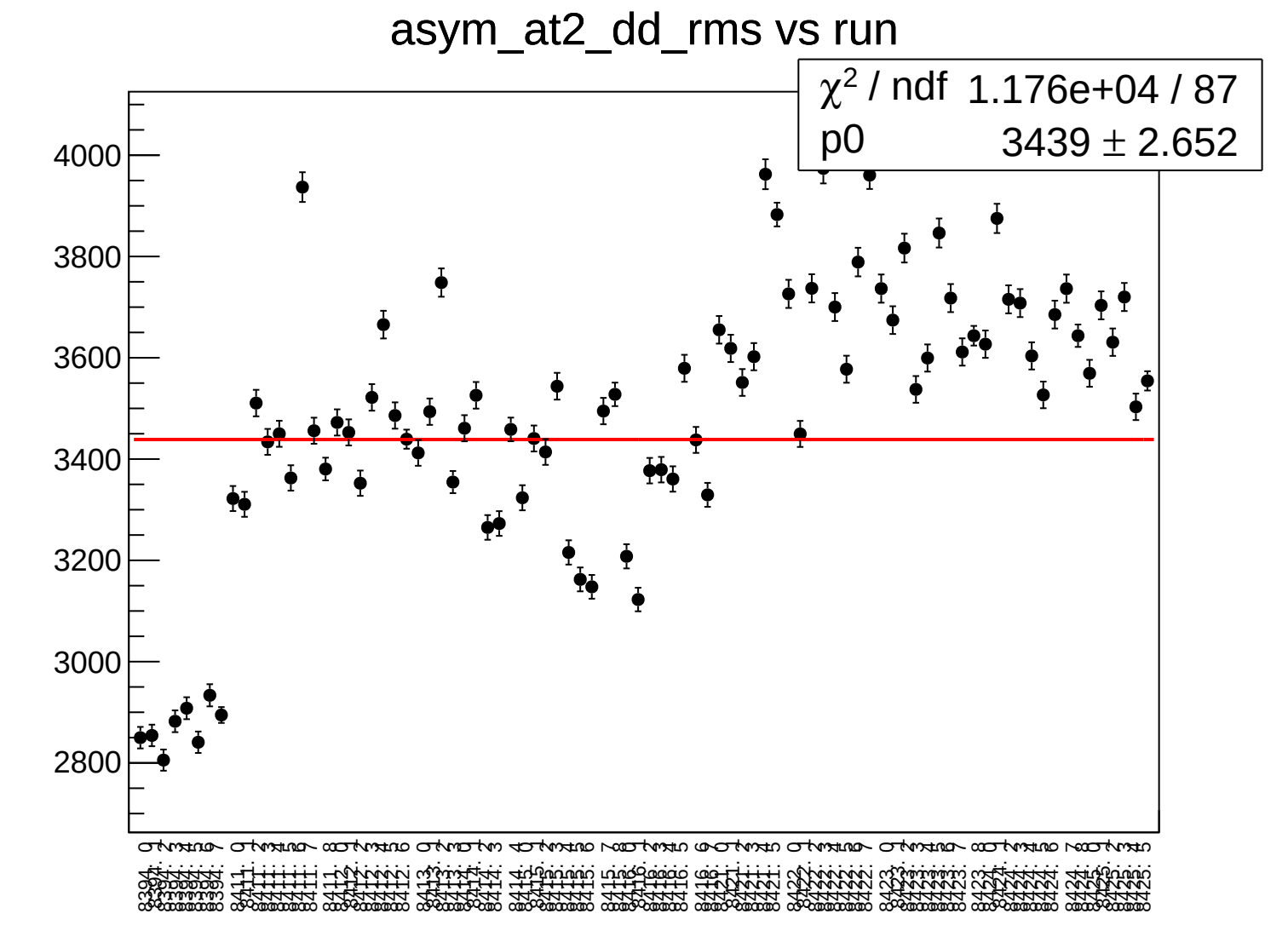

asym_at2_dd_eigen_dit_correction_mean vs run
χ² / ndf 64.89 / 87
p0 8501 ± 3220
×10³
150
100
50
0
−50
−100
pull
Entries 88
Mean −191.2
Std Dev 0
2
1
0
−1
−2

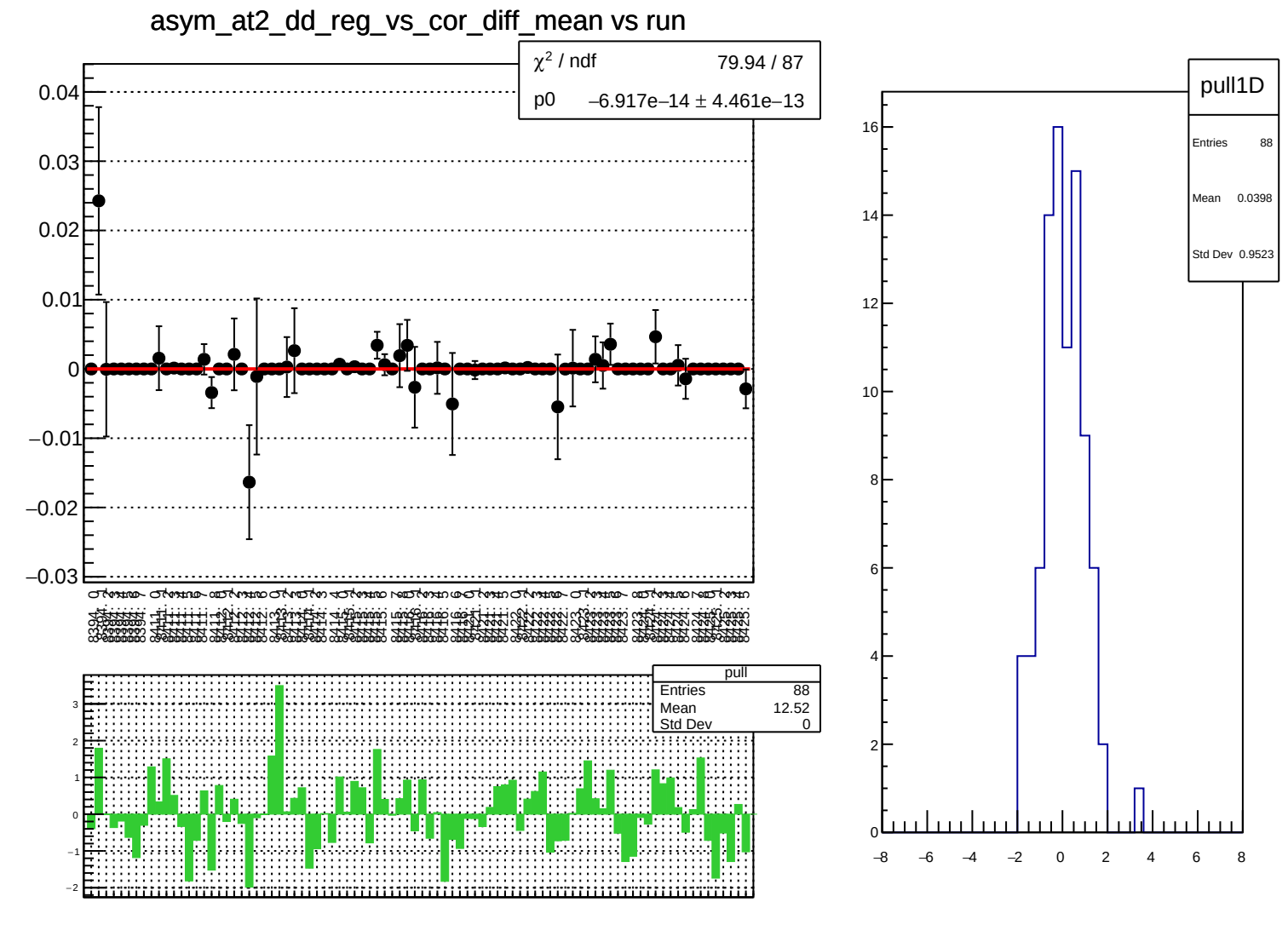

pull1D
Entries 88
Mean −0.01424
Std Dev 0.8586
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

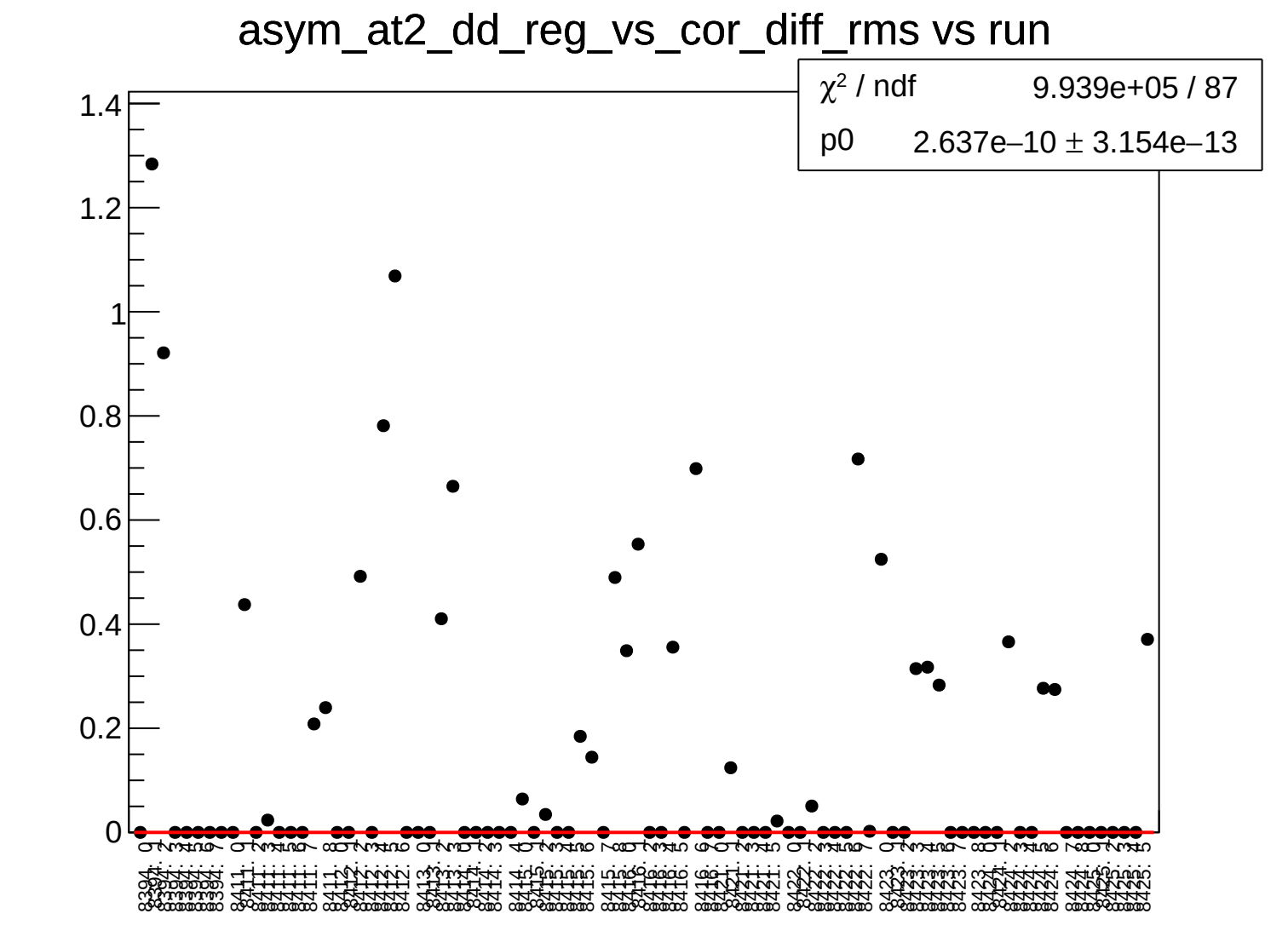

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.242e+04 / 87
p0 2942 ± 2.277
3600
3400
3200
3000
2800
2600
2400
2200

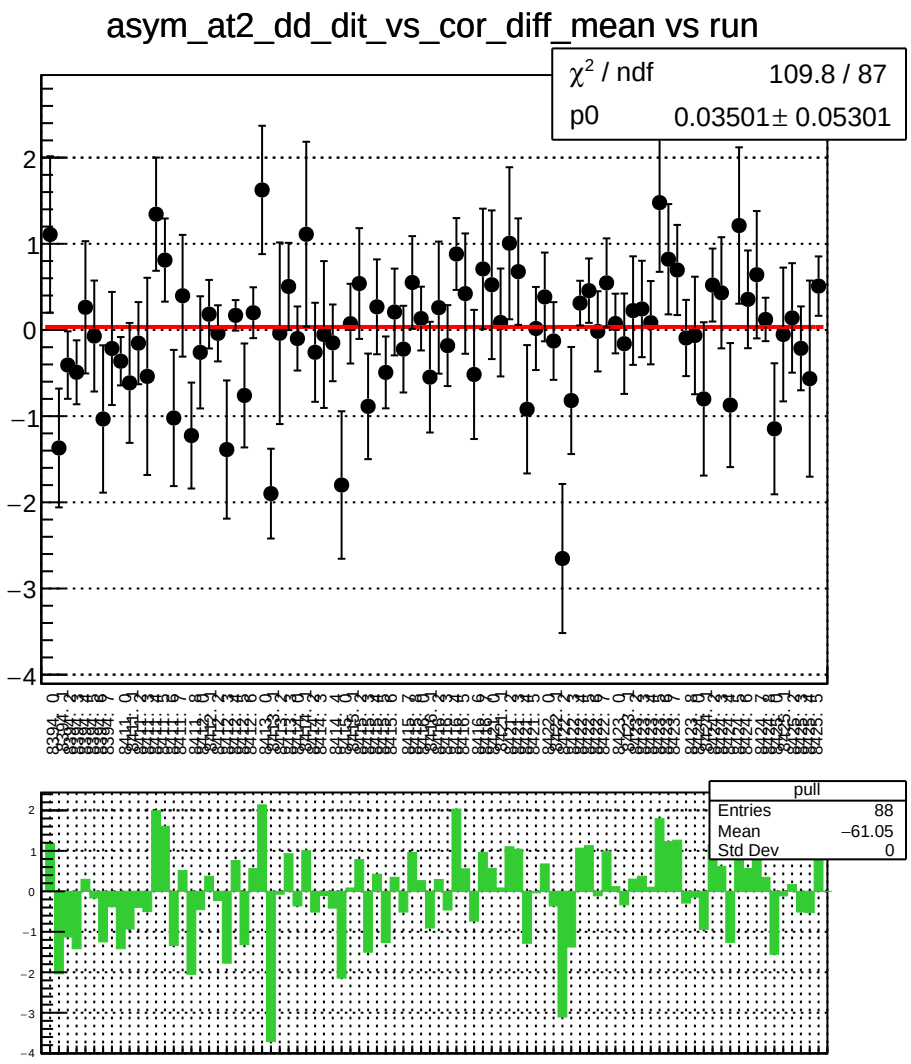

asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 83.72 / 87
p0 −7512 ± 3751
100
50
0
−50
−100
−150
pull
Entries 88
Mean −341.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

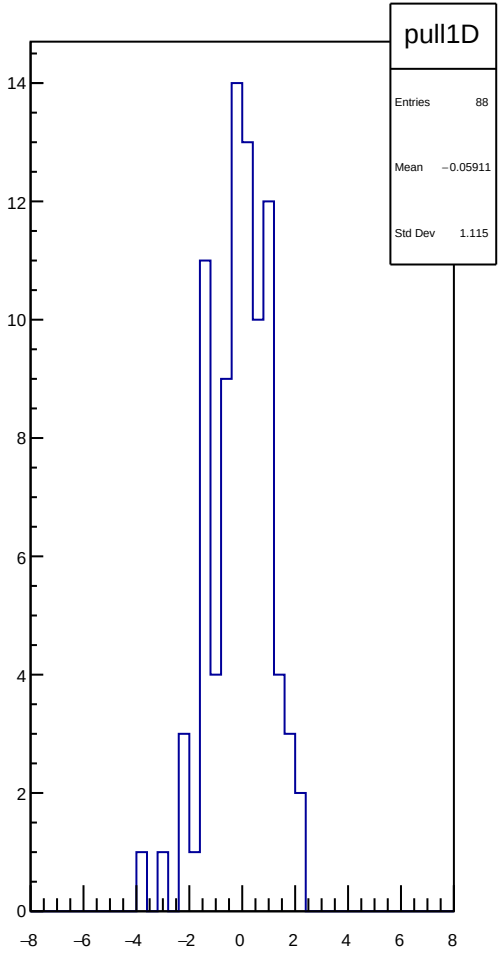

pull1D
Entries 88
Mean 0.01153
Std Dev 0.9753
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

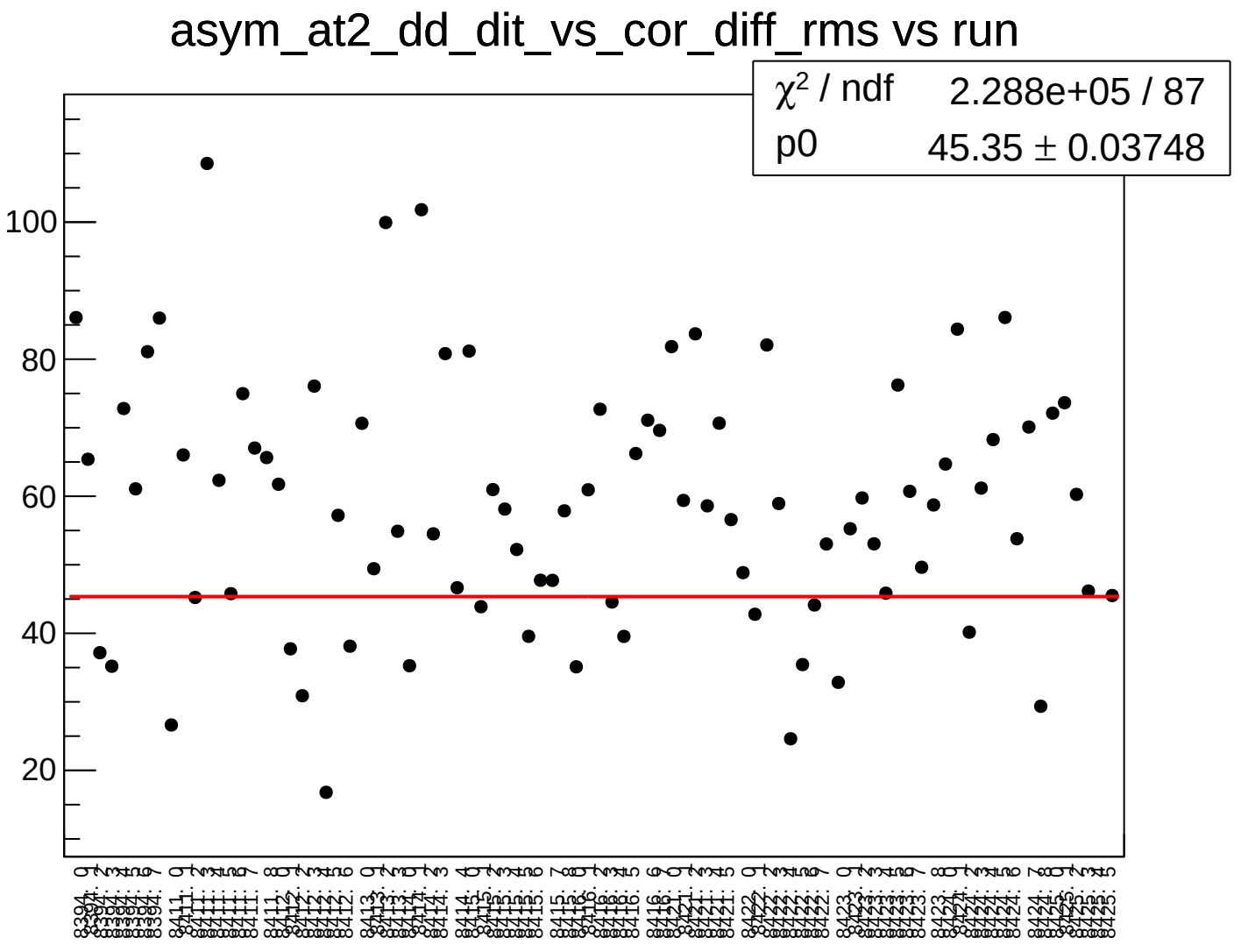

asym_at2_dd_rms vs run
χ² / ndf 1.176e+04 / 87
p0 3439 ± 2.652
4000
3800
3600
3400
3200
3000
2800

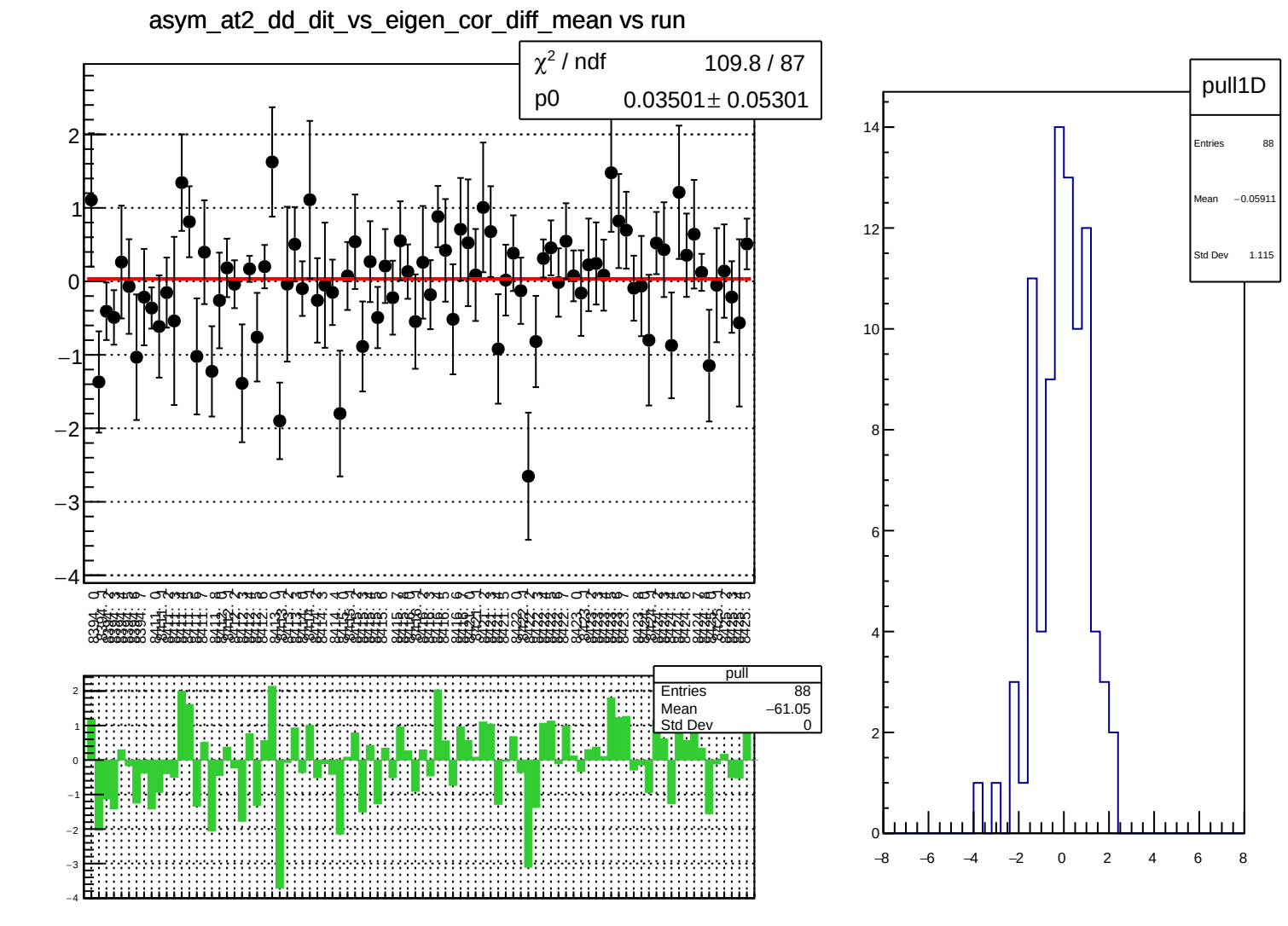

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.94 / 87
p0 −6.917e−14 ± 4.461e−13
pull
Entries 88
Mean 12.52
Std Dev 0
pull1D
Entries 88
Mean 0.0398
Std Dev 0.9523

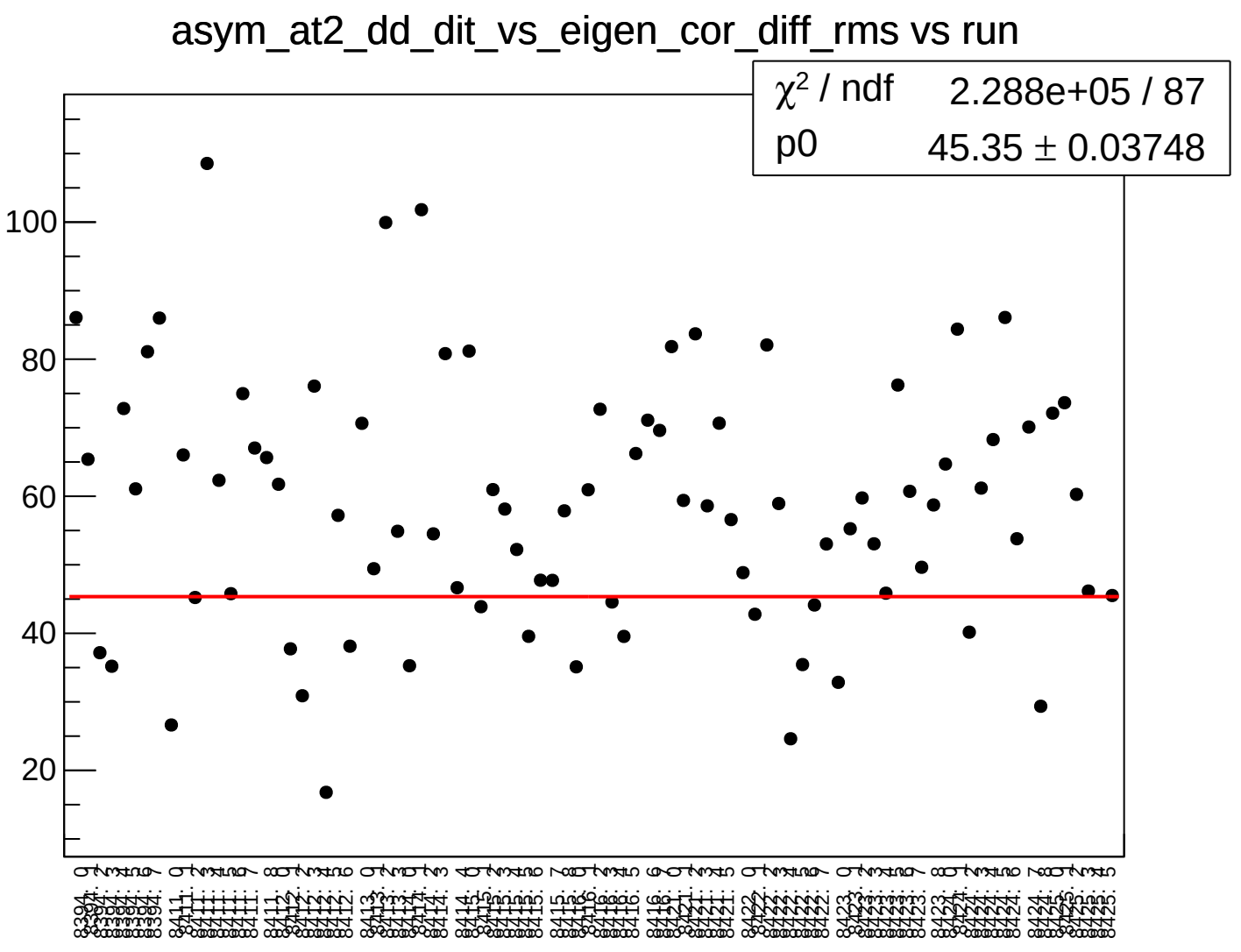

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.939e+05 / 87
p0 2.637e−10 ± 3.154e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

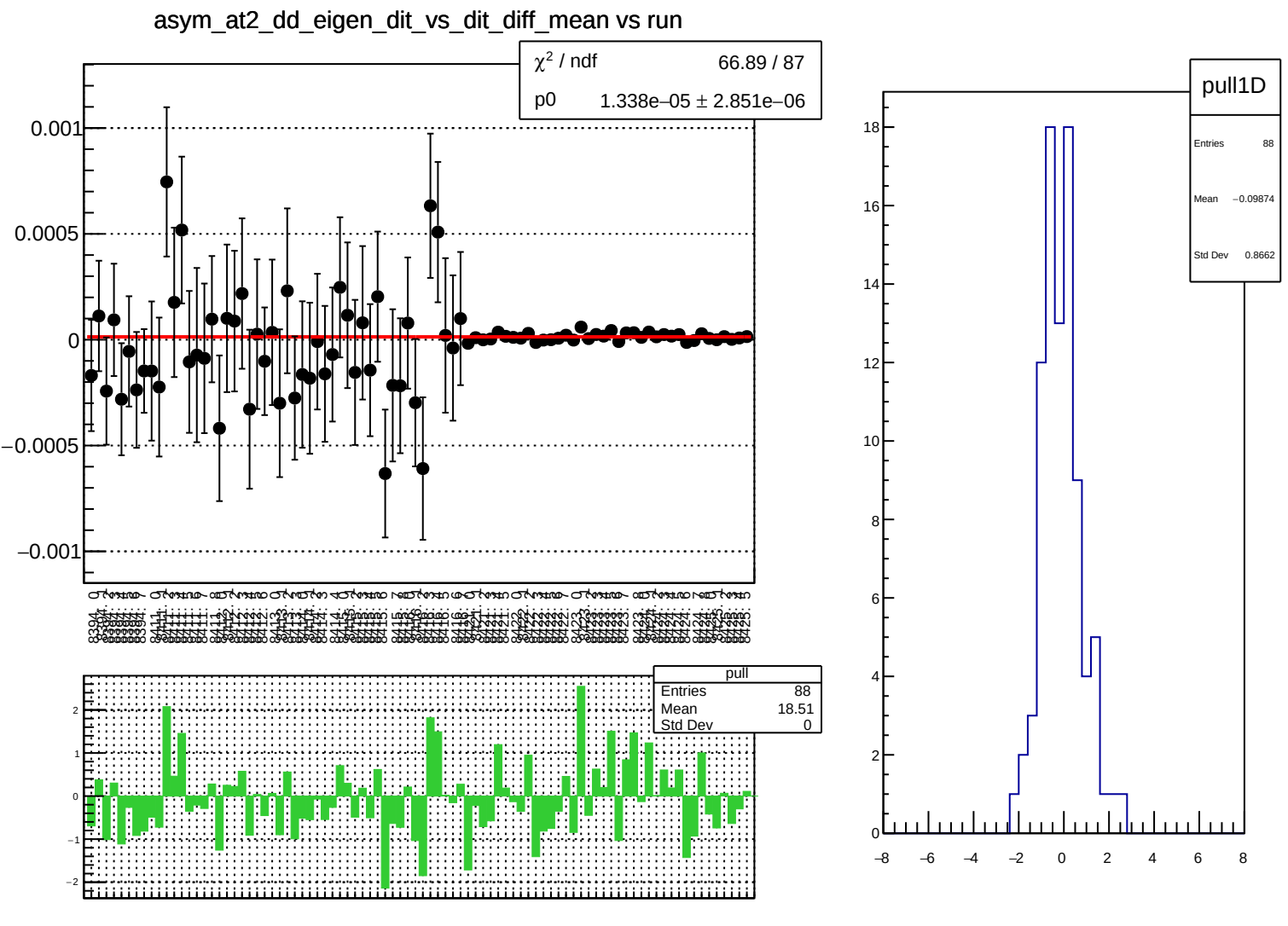

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 109.8 / 87
p0 0.03501± 0.05301
pull
Entries 88
Mean −61.05
Std Dev 0

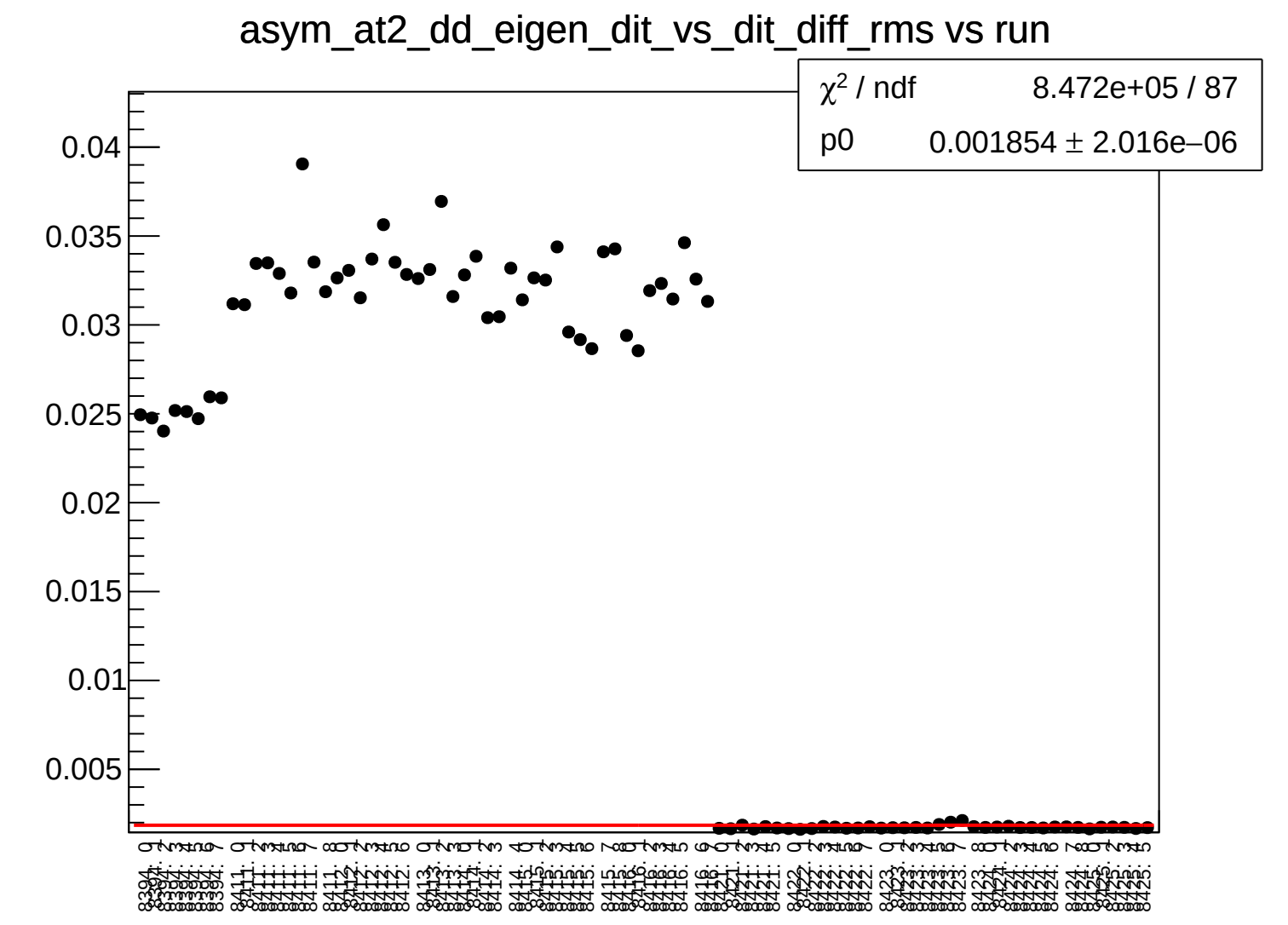

pull1D
Entries 88
Mean −0.05911
Std Dev 1.115

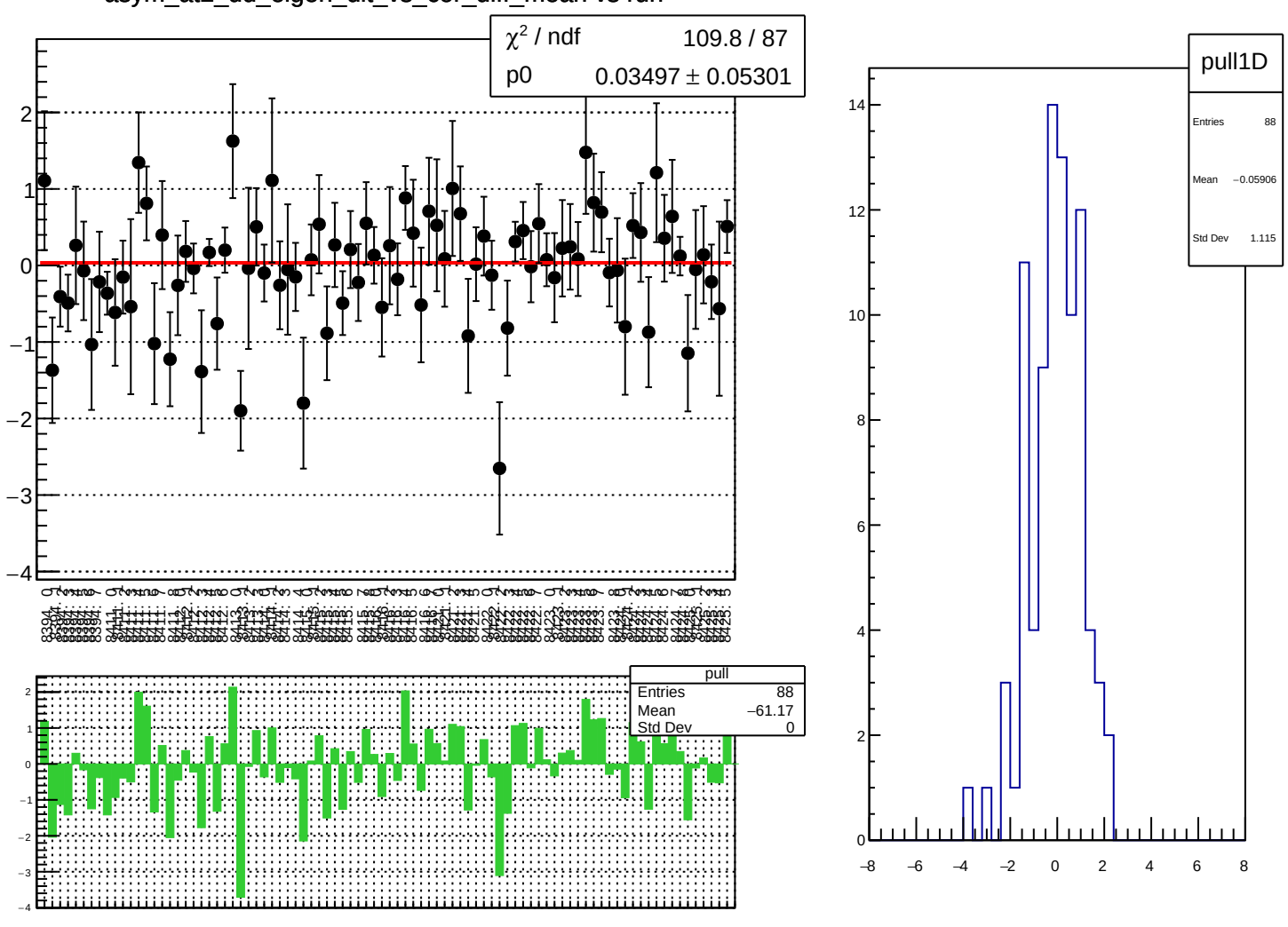

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.288e+05 / 87
p0 45.35 ± 0.03748
100
80
60
40
20

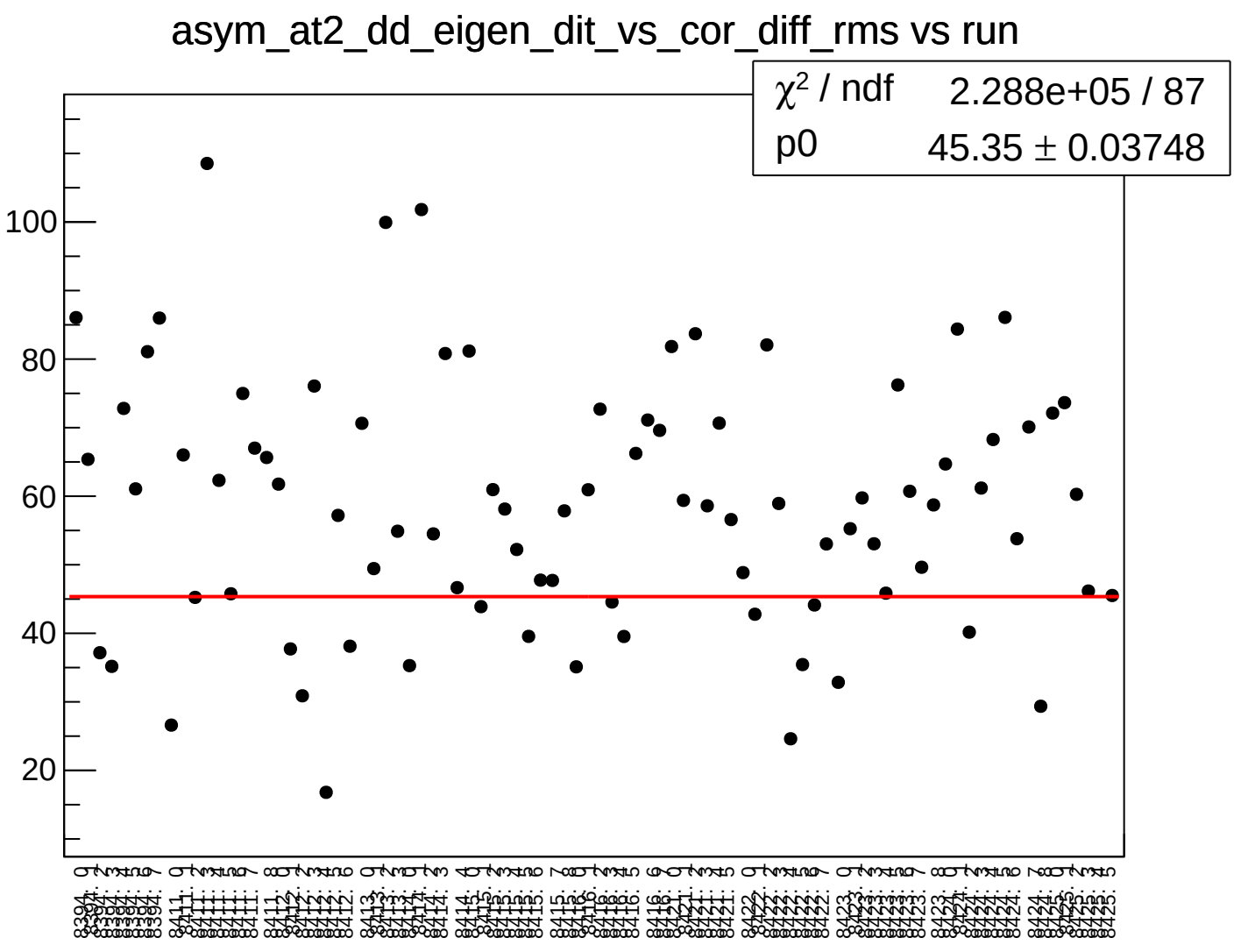

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.8 / 87
p0 0.03501± 0.05301
pull
Entries 88
Mean −61.05
Std Dev 0
pull1D
Entries 88
Mean −0.05911
Std Dev 1.115


asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.288e+05 / 87
p0 45.35 ± 0.03748
100
80
60
40
20

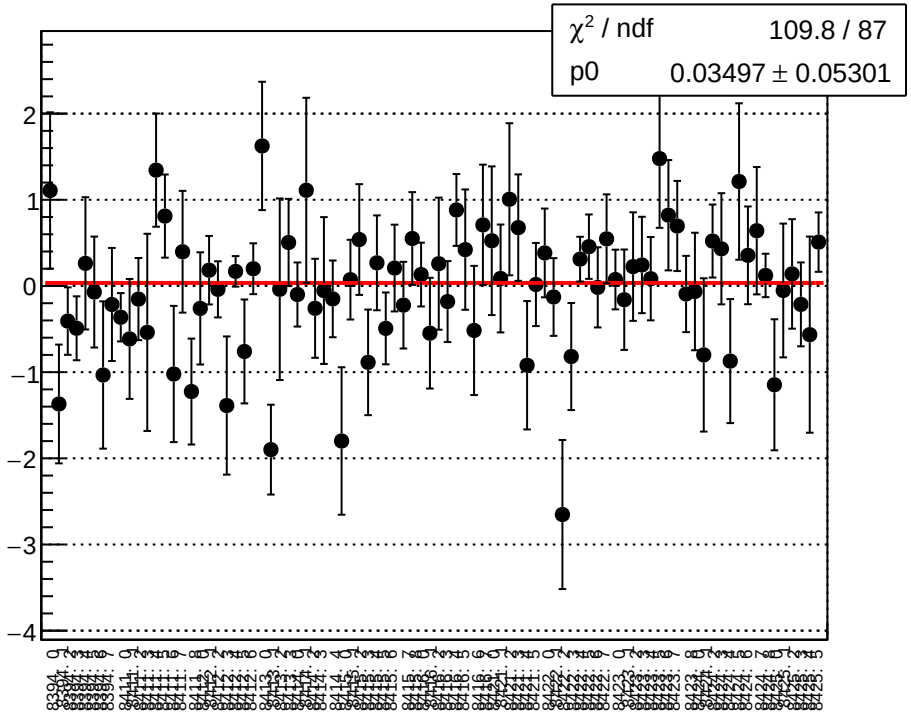

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 66.89 / 87
p0 1.338e−05 ± 2.851e−06
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean 18.51
Std Dev 0
pull1D
Entries 88
Mean −0.09874
Std Dev 0.8662
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

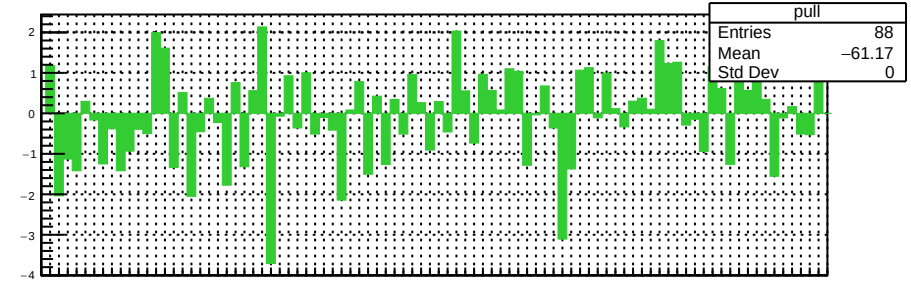

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.472e+05 / 87
p0 0.001854 ± 2.016e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

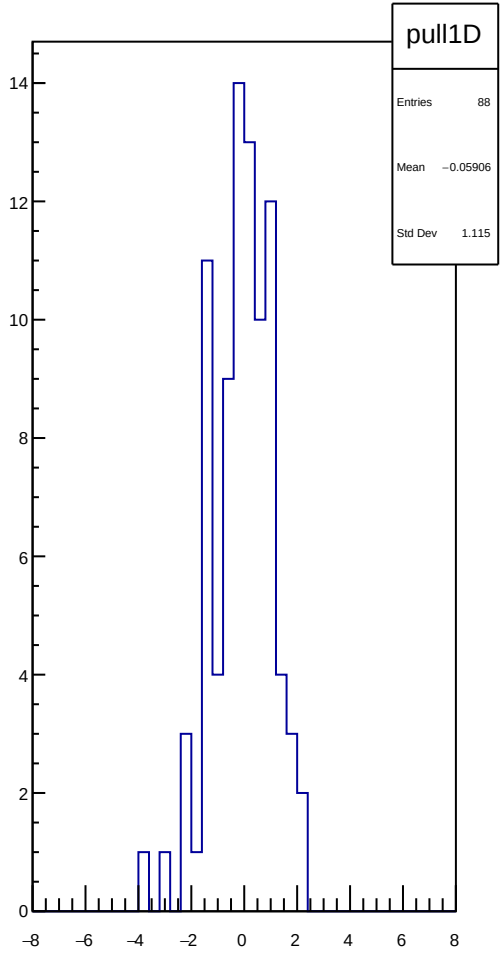

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.8 / 87
p0 0.03497 ± 0.05301
pull
Entries 88
Mean −61.17
Std Dev 0
pull1D
Entries 88
Mean −0.05906
Std Dev 1.115

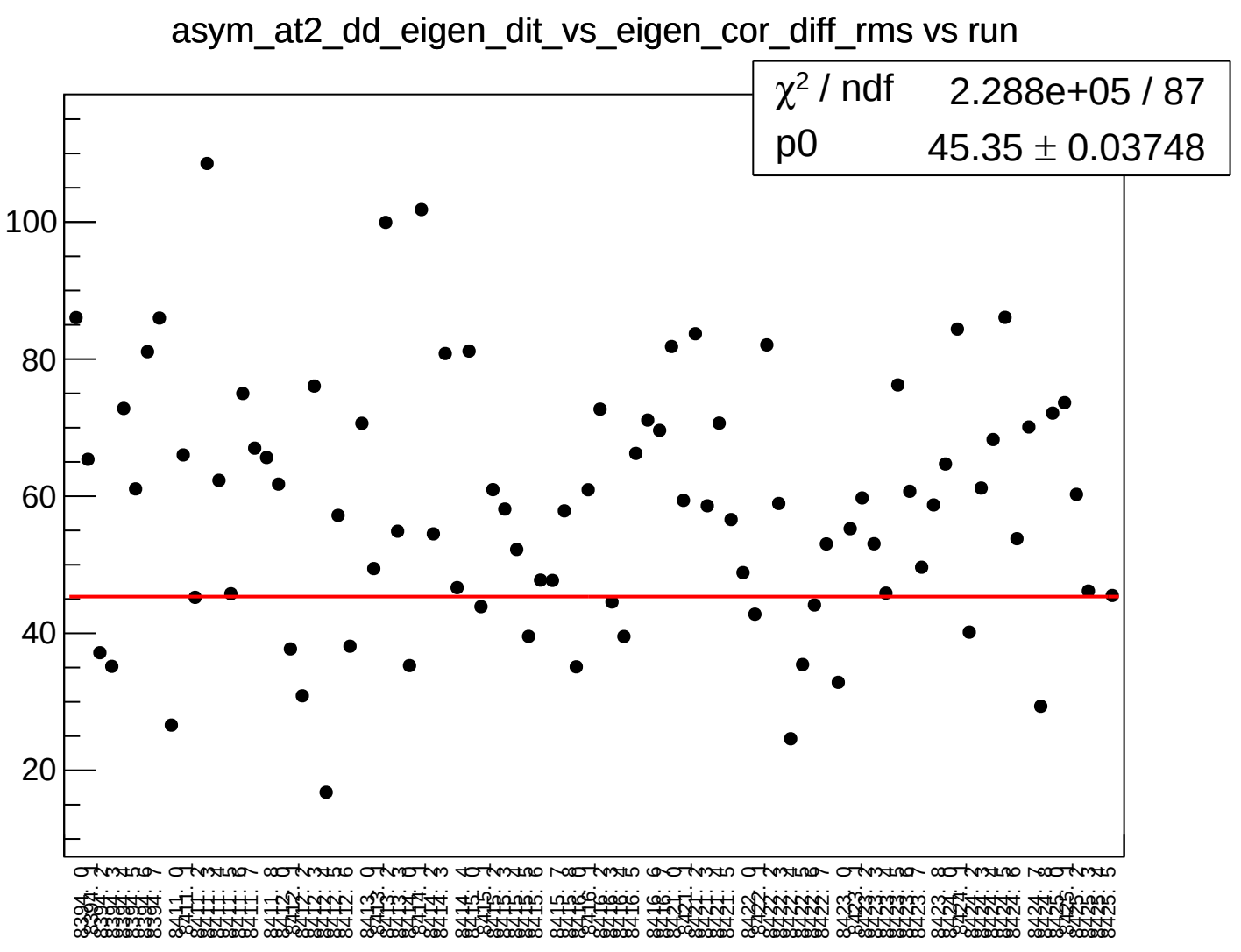

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.288e+05 / 87
p0 45.35 ± 0.03748
100
80
60
40
20

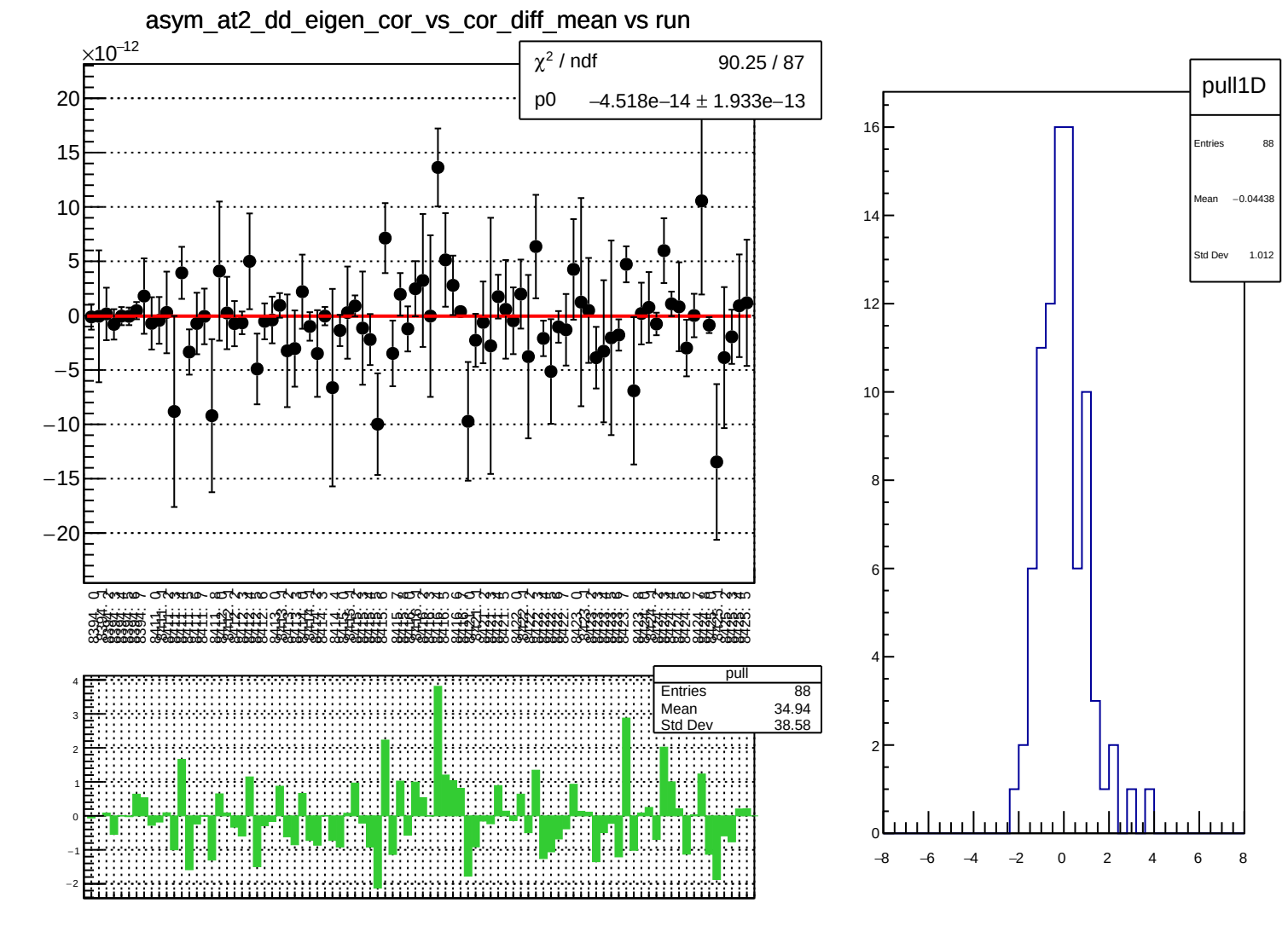
asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

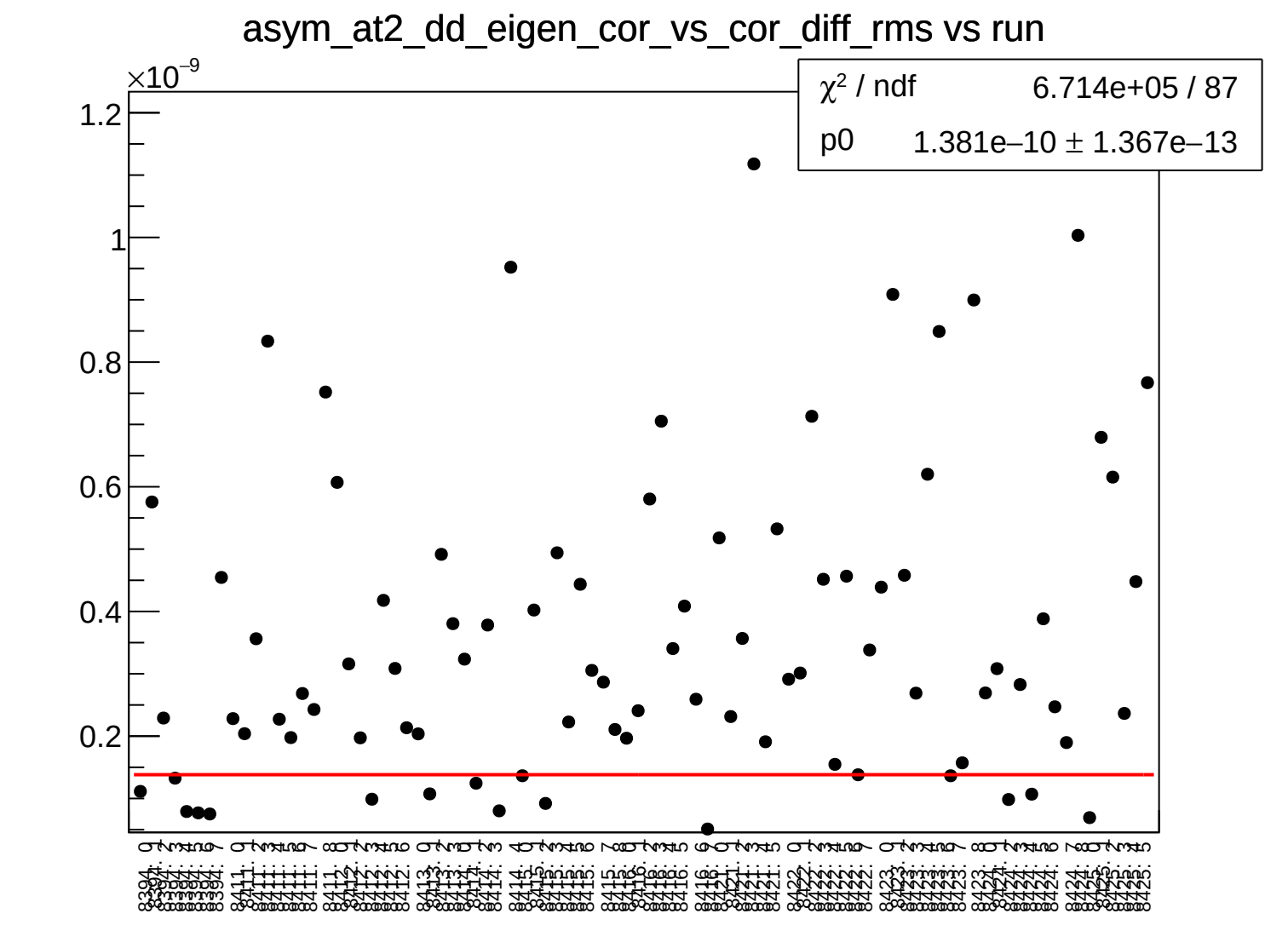


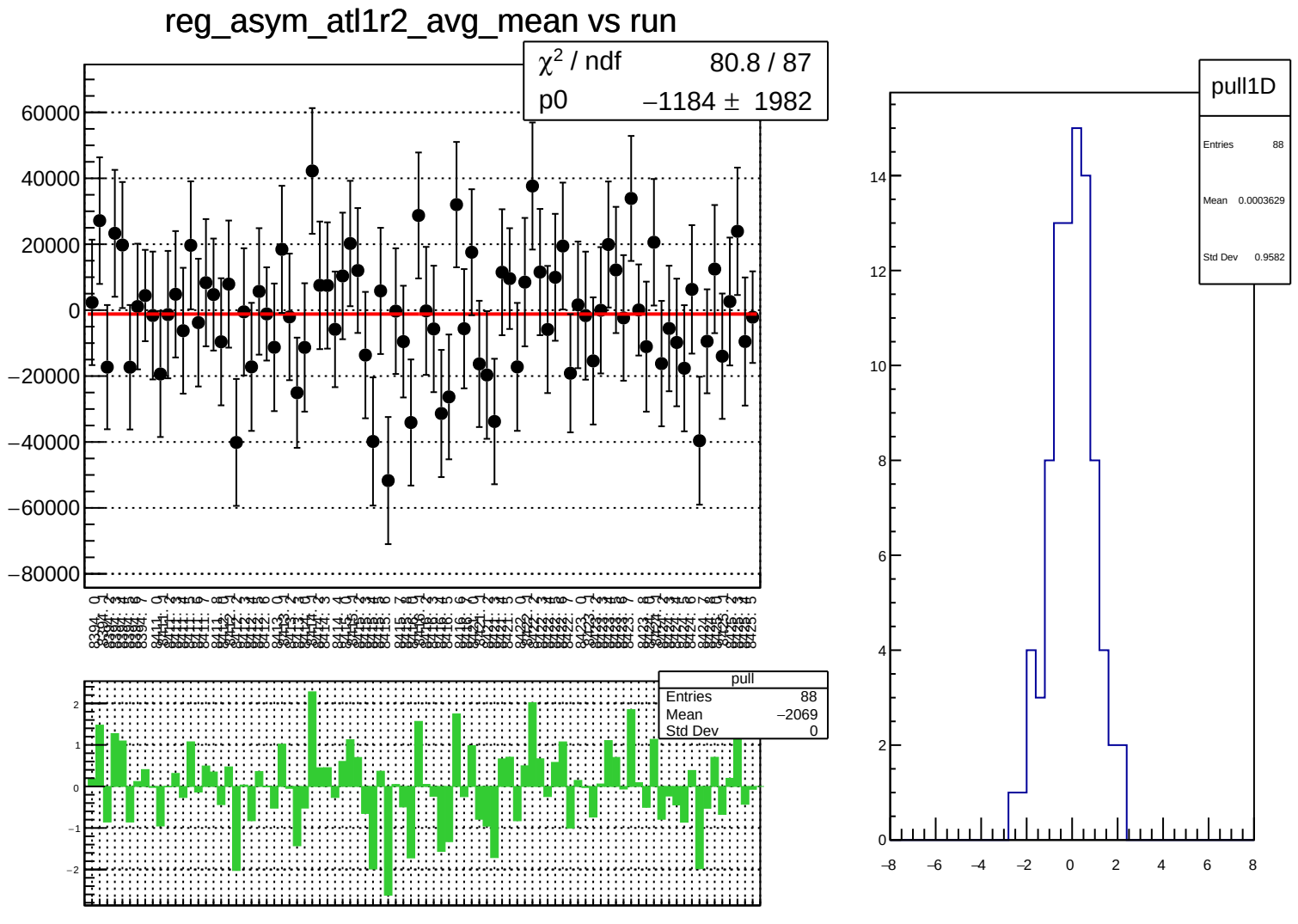


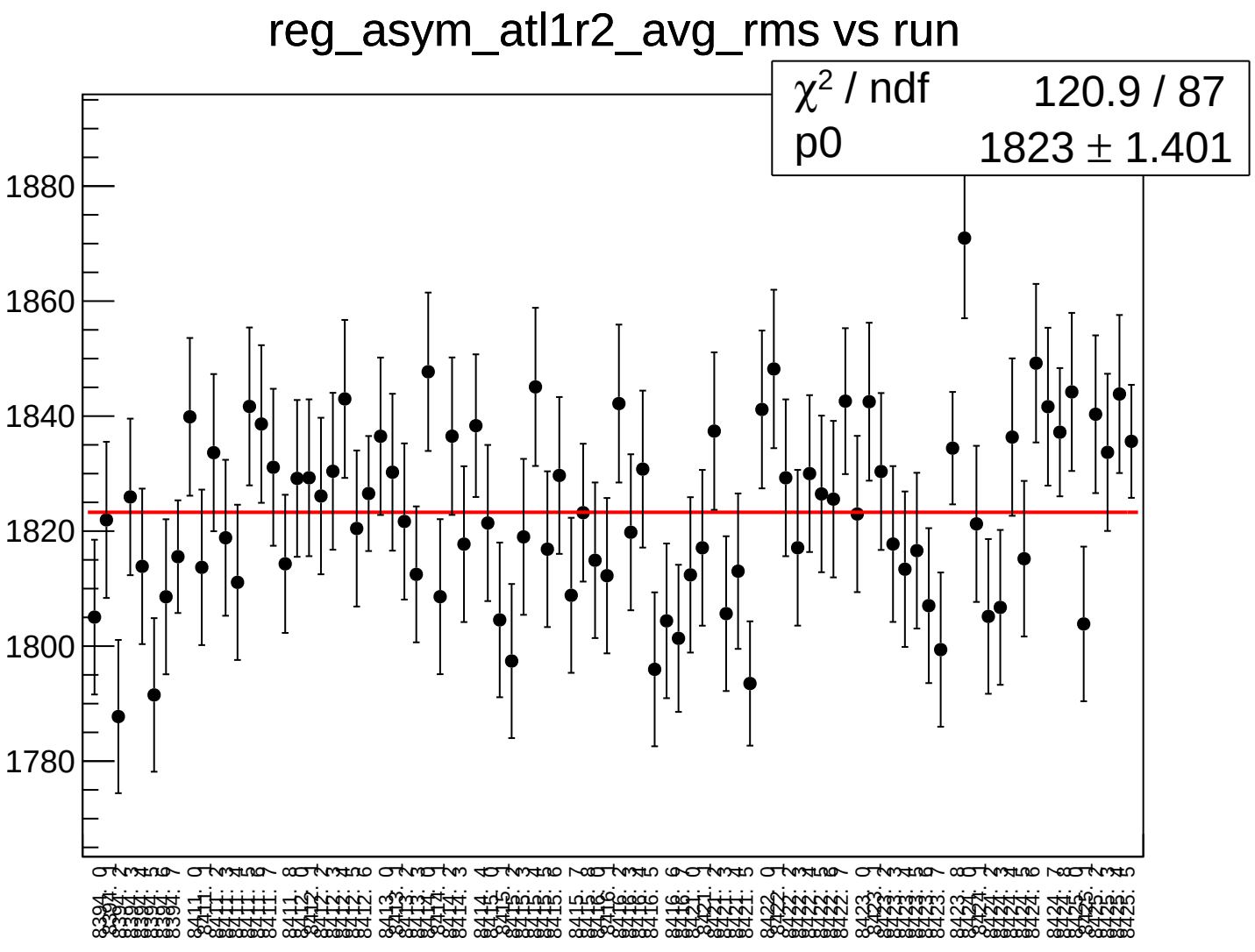


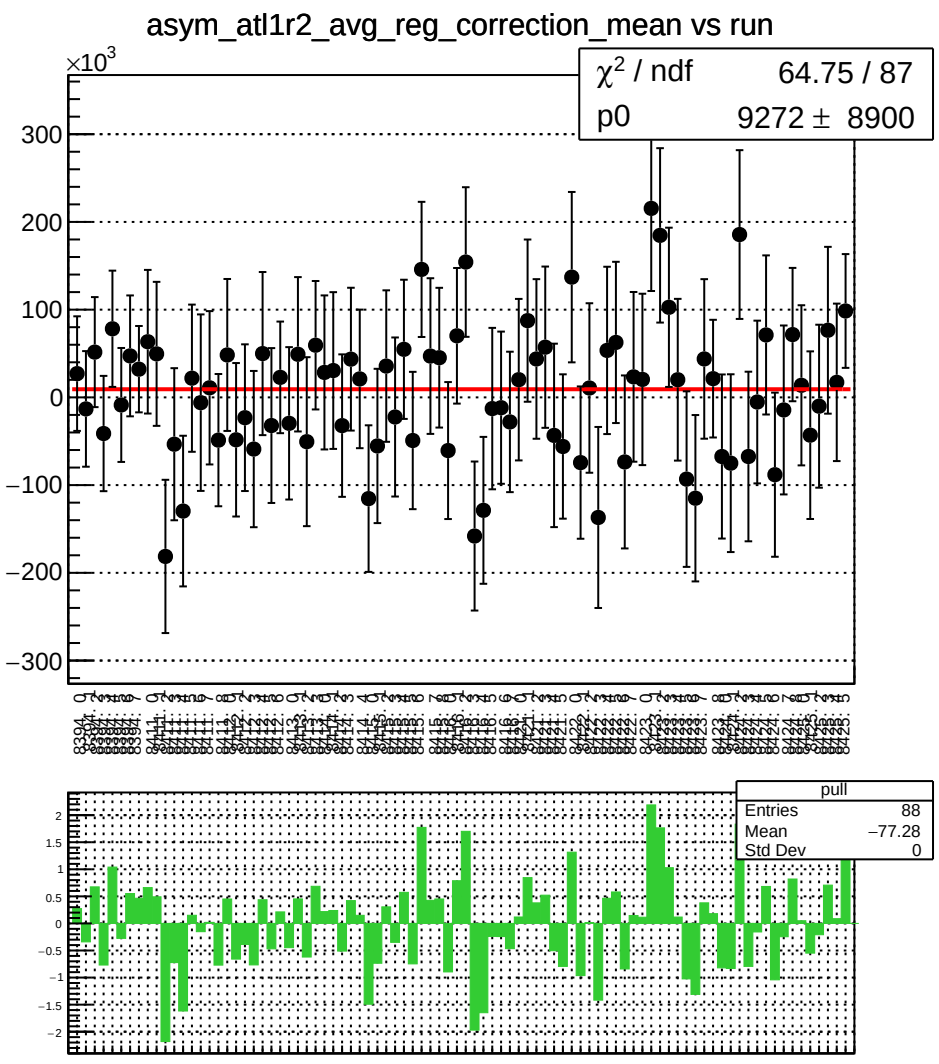

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.288e+05 / 87
p0 45.35 ± 0.03748
100
80
60
40
20

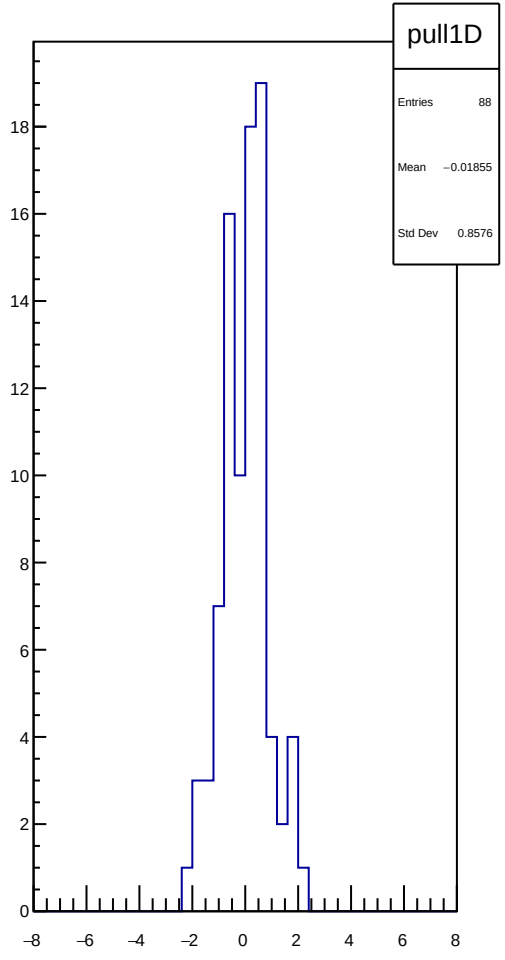

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 90.25 / 87
p0 −4.518e−14 ± 1.933e−13
pull
Entries 88
Mean 34.94
Std Dev 38.58
pull1D
Entries 88
Mean −0.04438
Std Dev 1.012

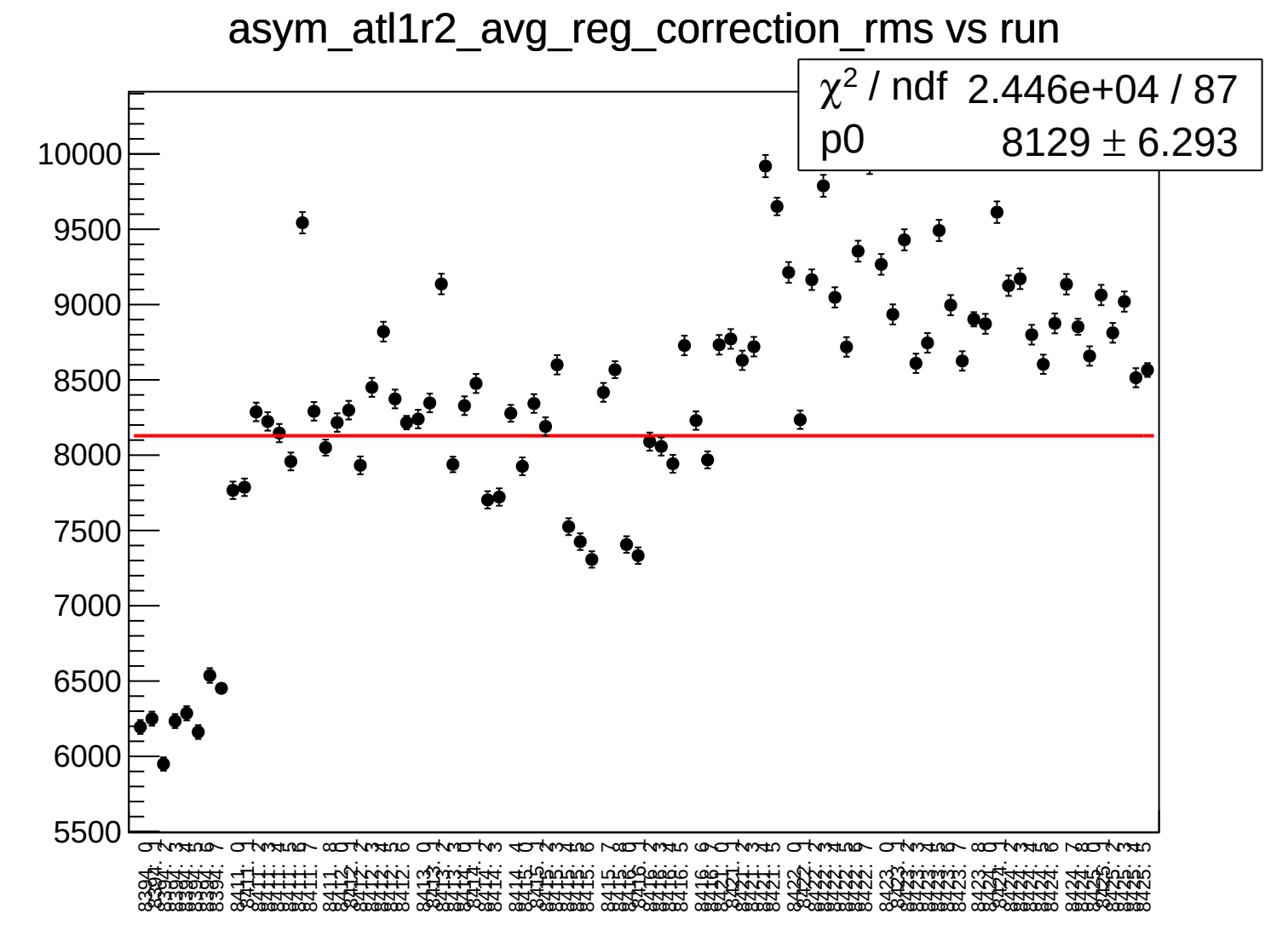

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.714e+05 / 87
p0 1.381e−10 ± 1.367e−13
1.2
1
0.8
0.6
0.4
0.2

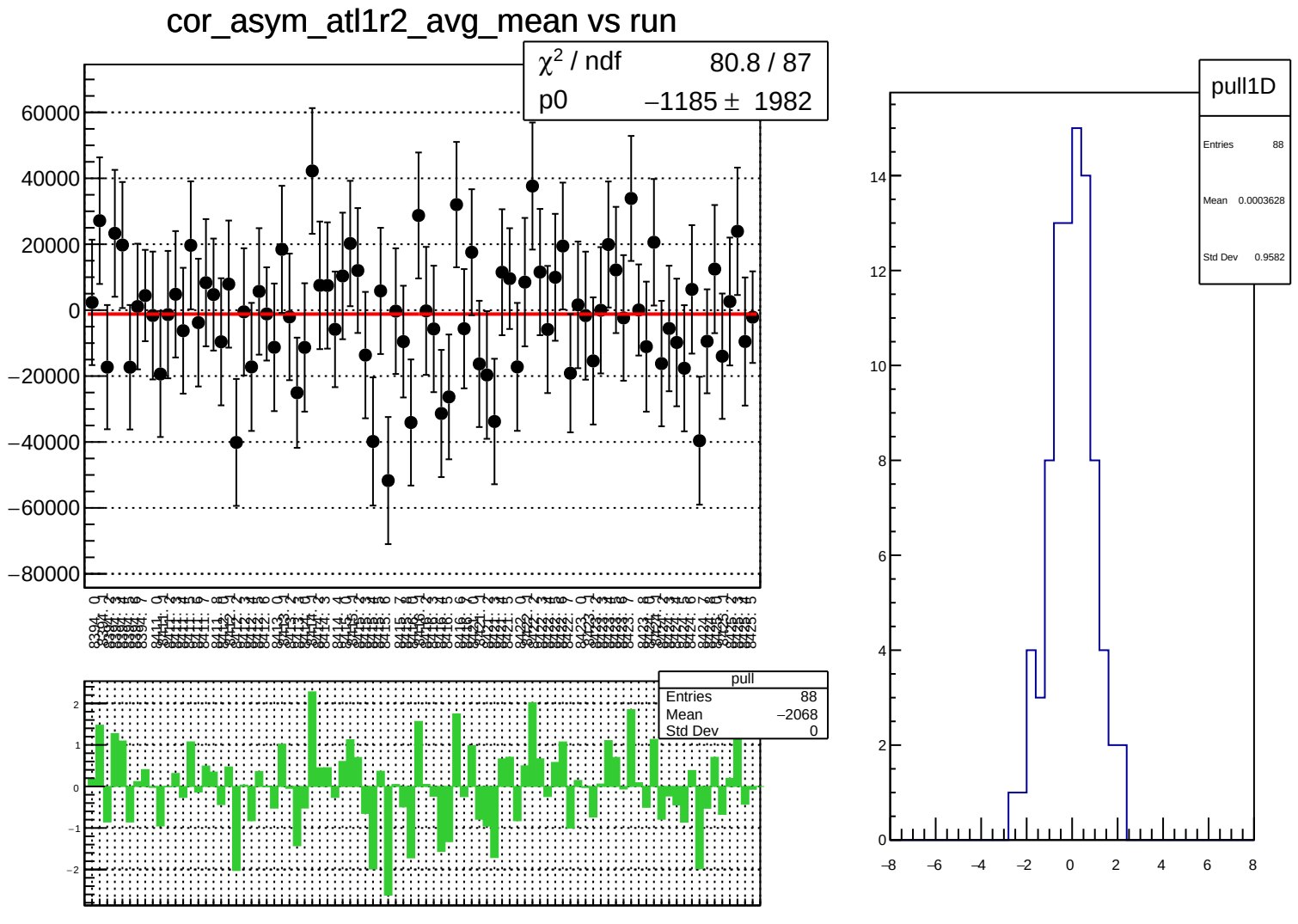

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 80.8 / 87
p0 −1184 ± 1982
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −2069
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.0003629
Std Dev 0.9582
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

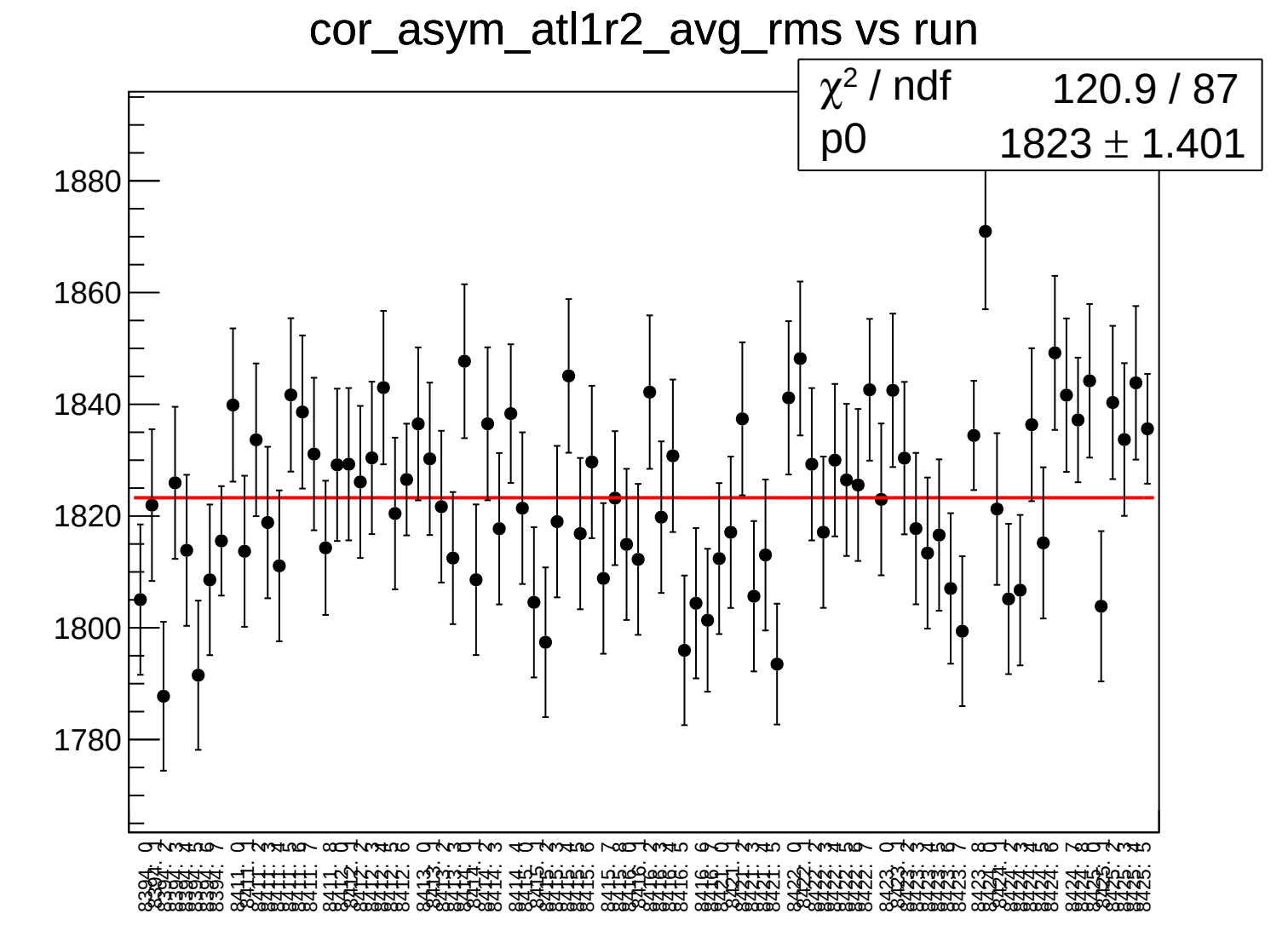

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 120.9 / 87
p0 1823 ± 1.401
1880
1860
1840
1820
1800
1780

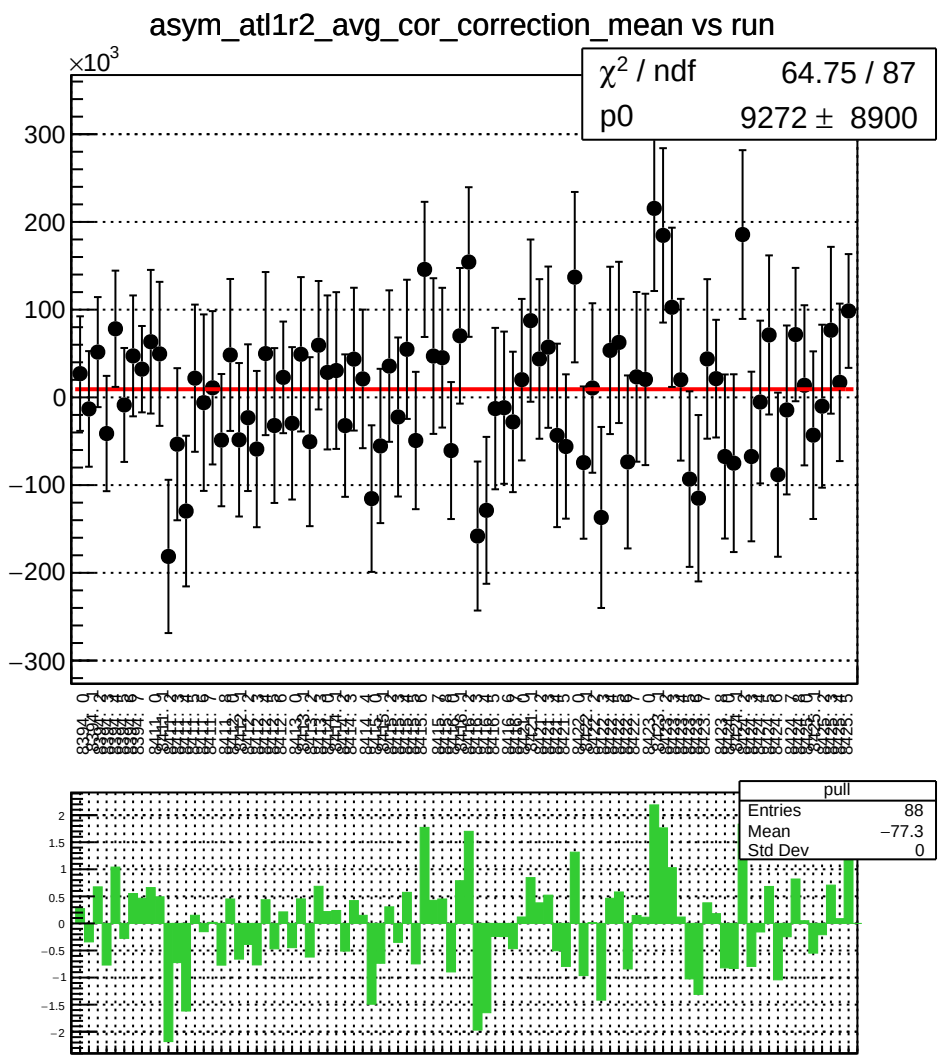

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 64.75 / 87
p0 9272 ± 8900
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −77.28
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

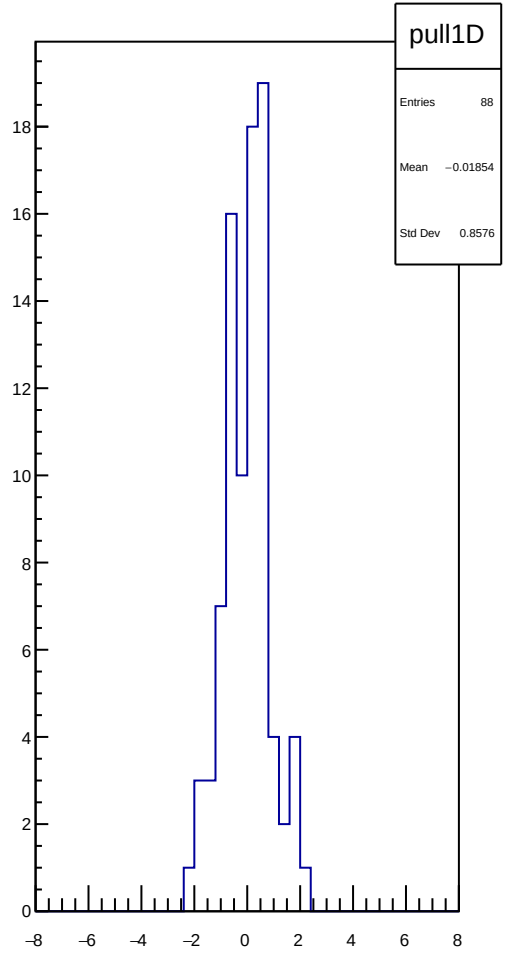

pull1D
Entries 88
Mean −0.01855
Std Dev 0.8576
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

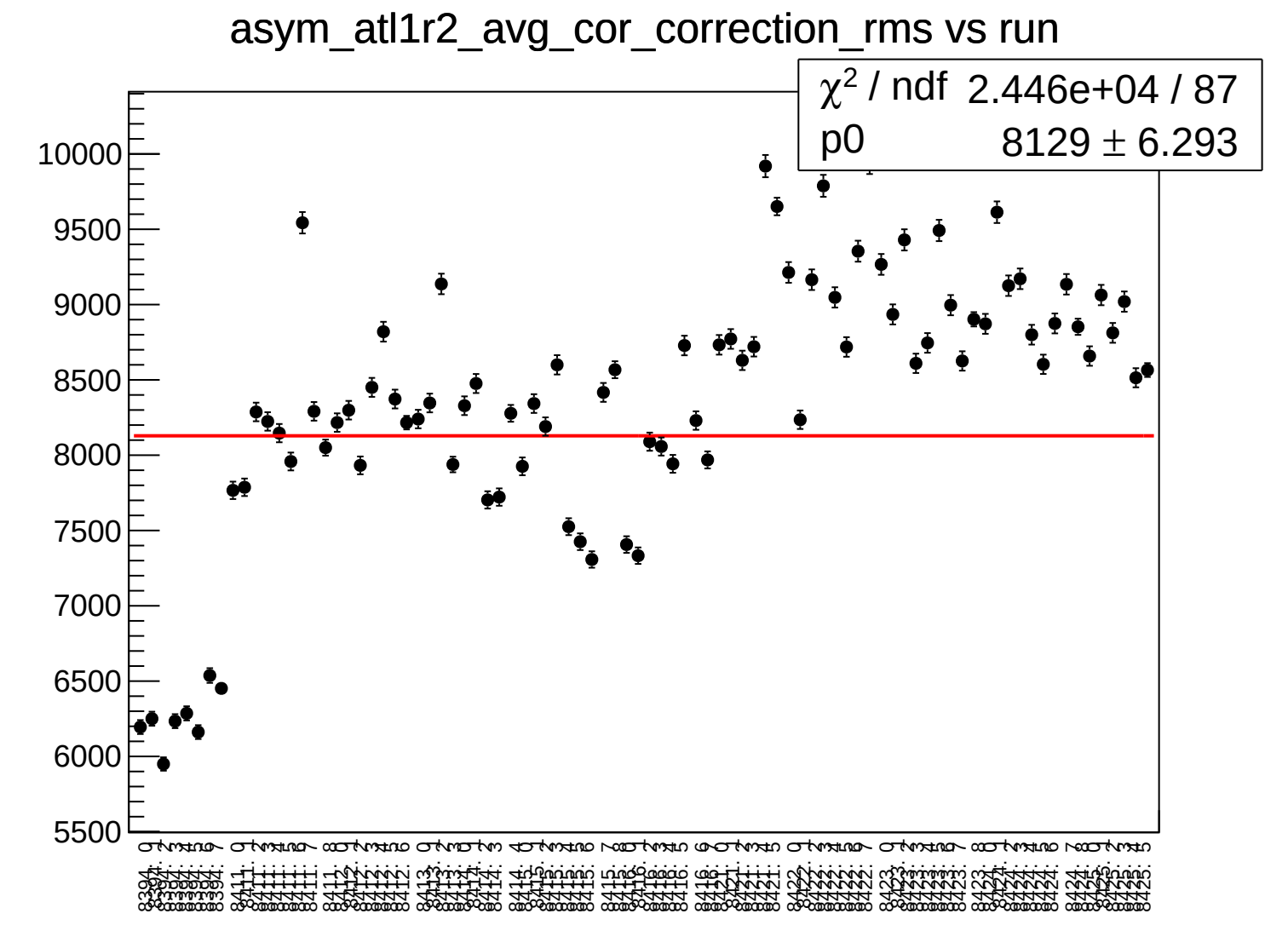

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 2.446e+04 / 87
p0 8129 ± 6.293
10000
9500
9000
8500
8000
7500
7000
6500
6000
5500

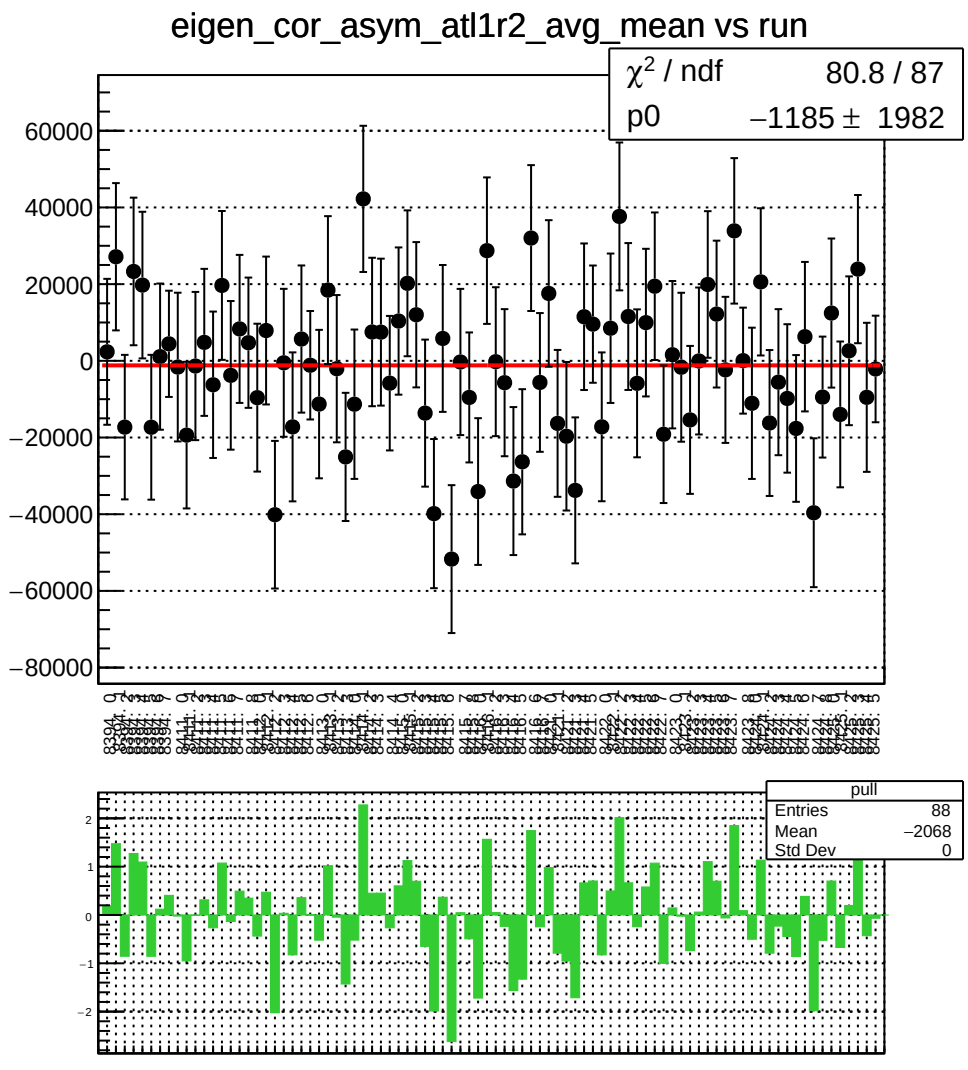

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 80.8 / 87
p0 −1185 ± 1982
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −2068
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.0003628
Std Dev 0.9582
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

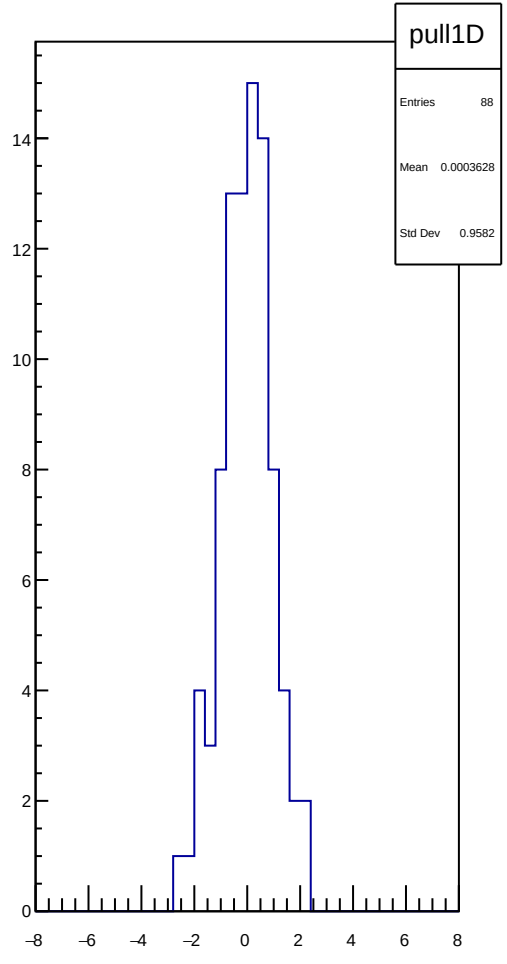

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 120.9 / 87
p0 1823 ± 1.401
1880
1860
1840
1820
1800
1780

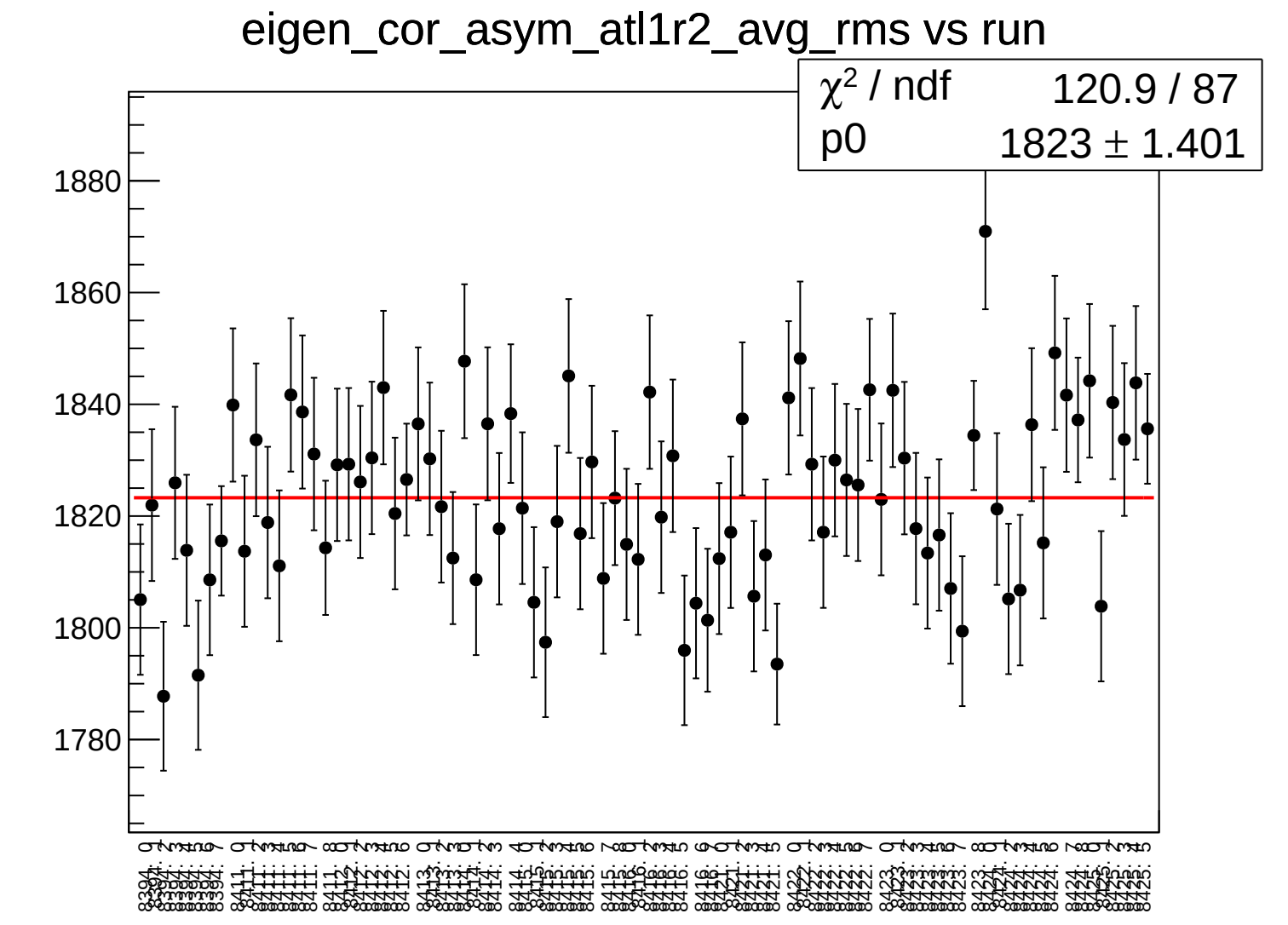

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 64.75 / 87
p0 9272 ± 8900
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −77.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

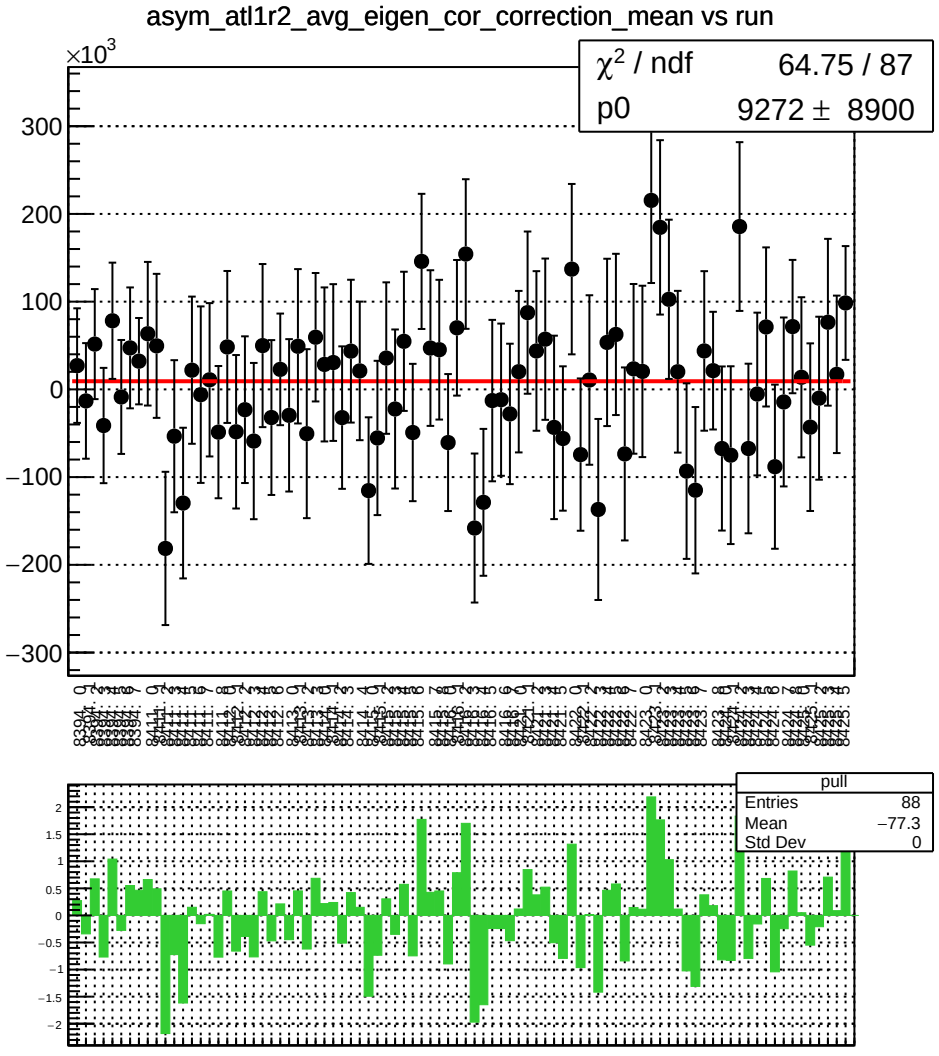

pull1D
Entries 88
Mean −0.01854
Std Dev 0.8576
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

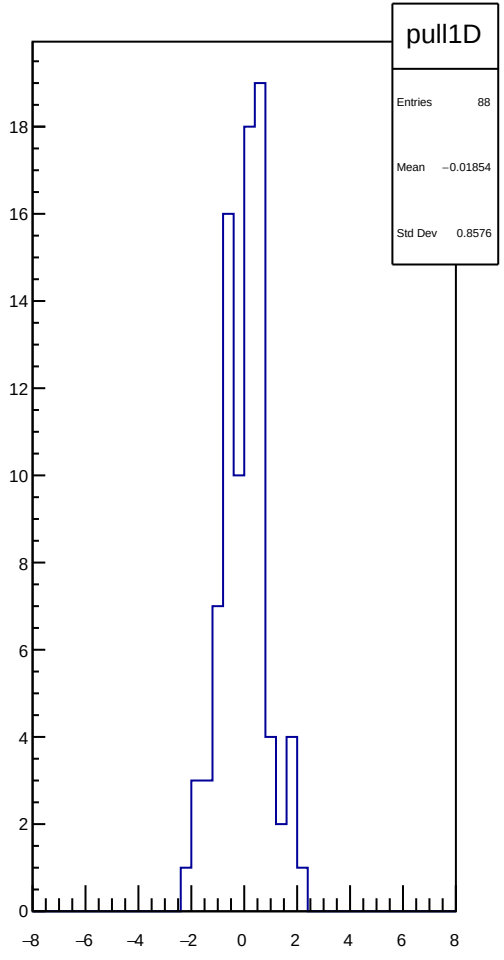

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 2.446e+04 / 87
p0 8129 ± 6.293
10000
9500
9000
8500
8000
7500
7000
6500
6000
5500

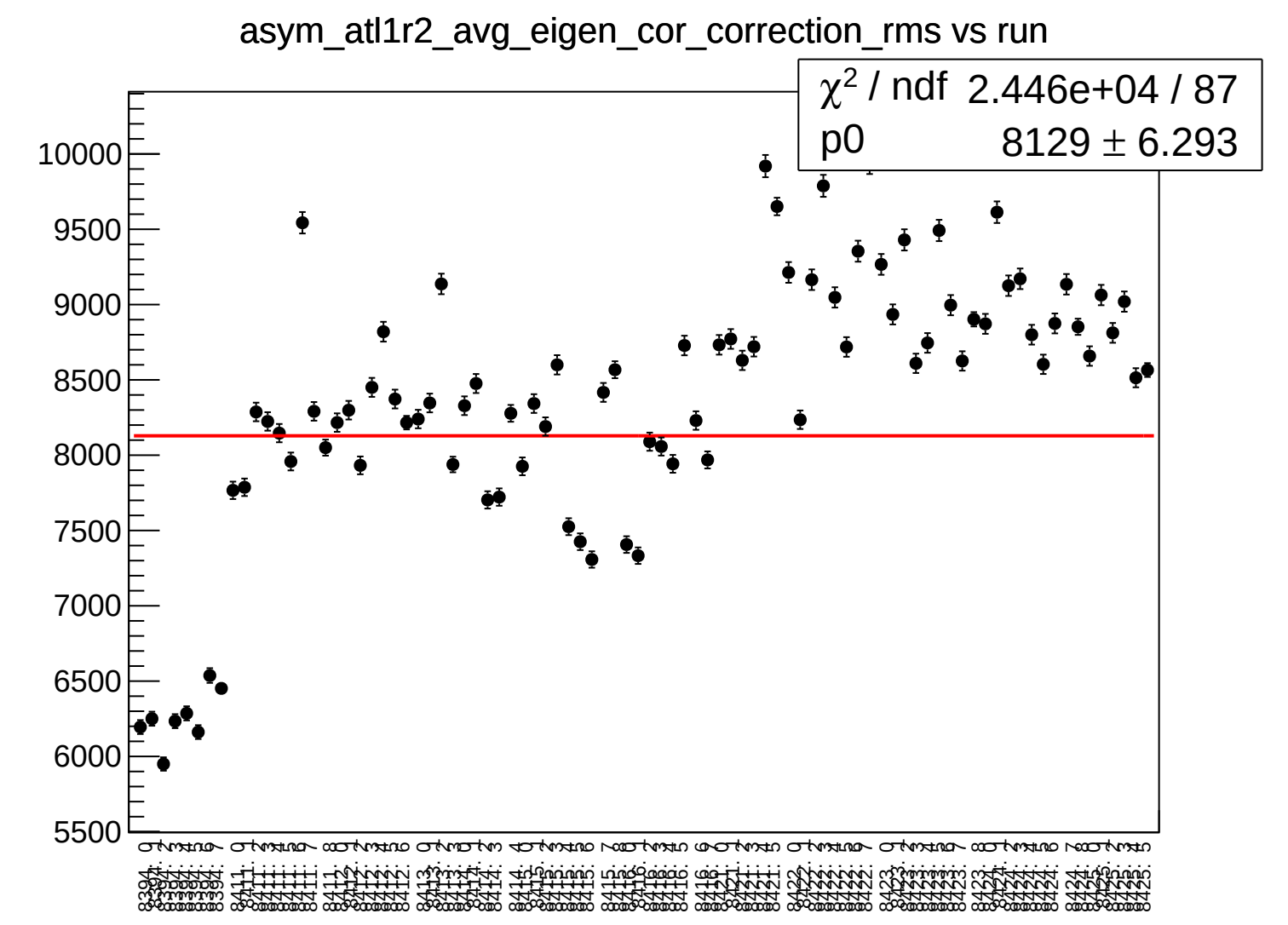

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 80.8 / 87
p0 −1185 ± 1982
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −2068
Std Dev 0
2
1
0
−1
−2

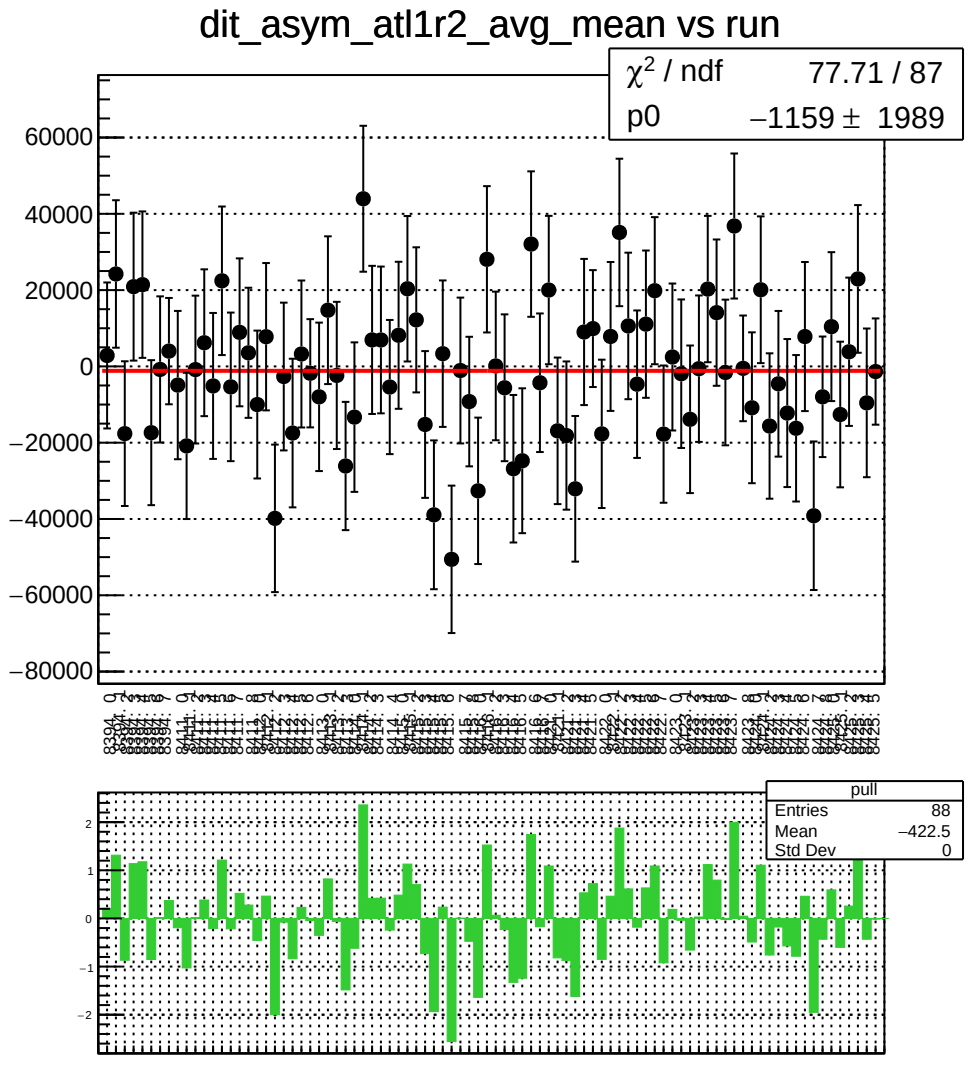

pull1D
Entries 88
Mean 0.0003628
Std Dev 0.9582
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

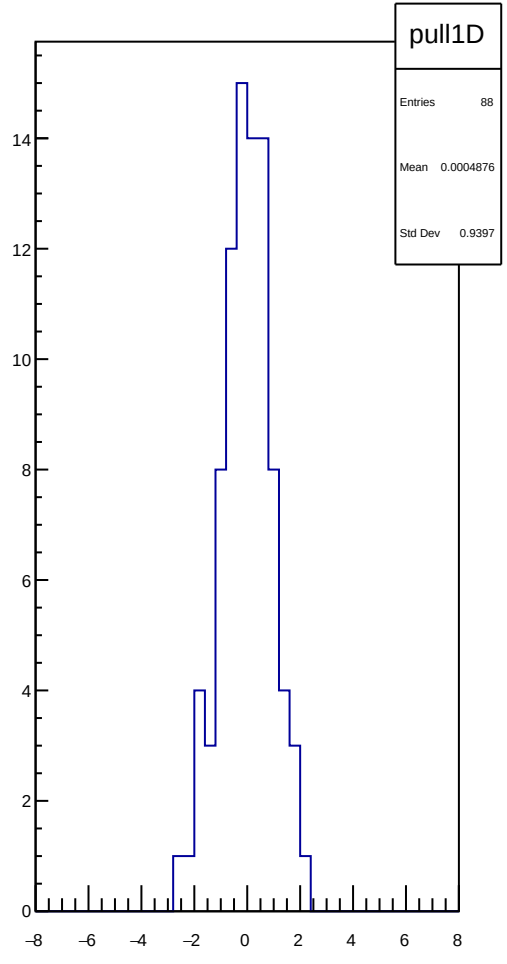

eigen_cor_asym_atl1r2_avg_rms vs run
χ^2 / ndf 120.9 / 87
p0 1823 ± 1.401
1880
1860
1840
1820
1800
1780

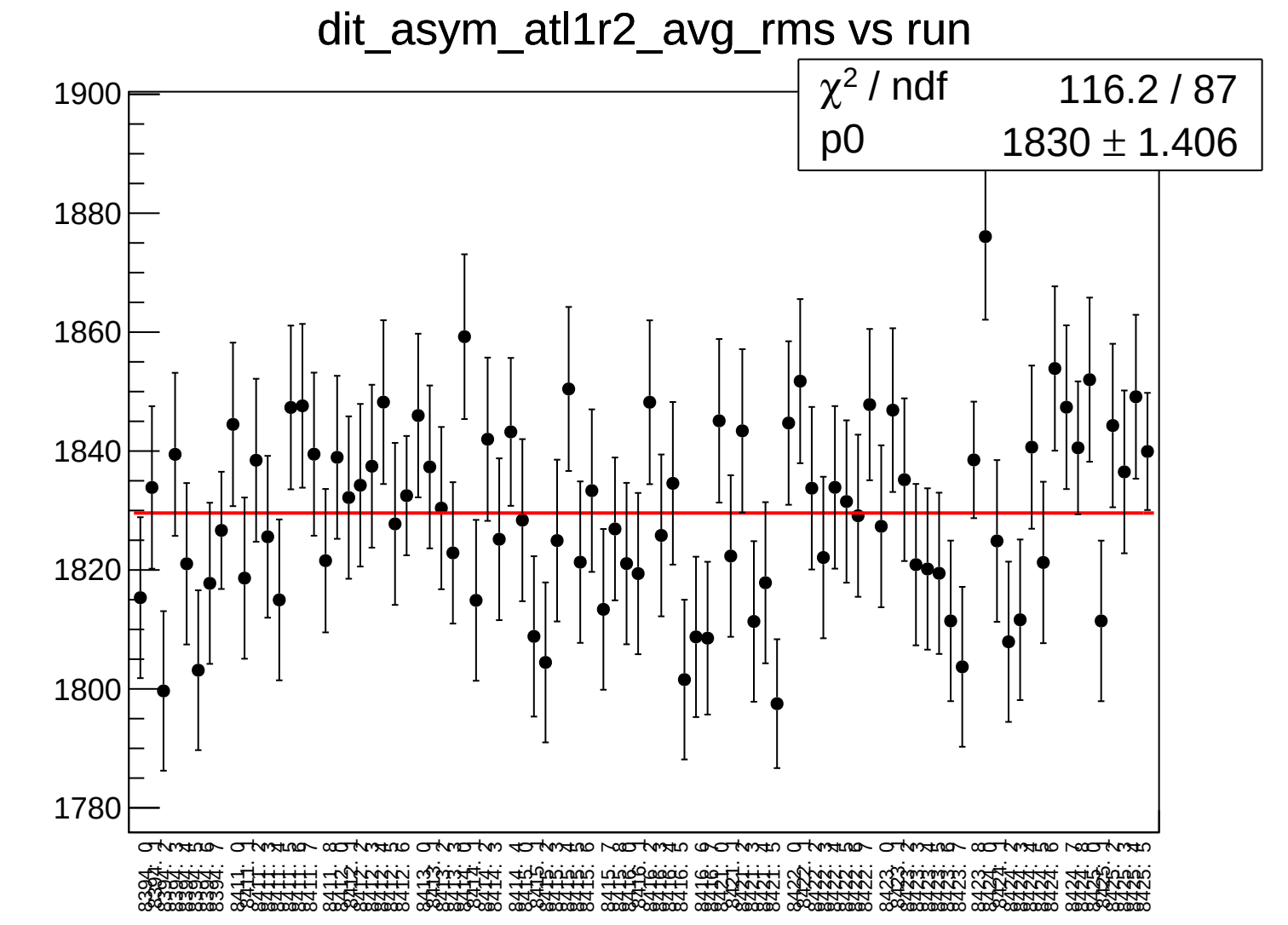

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 64.75 / 87
p0 9272 ± 8900
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −77.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

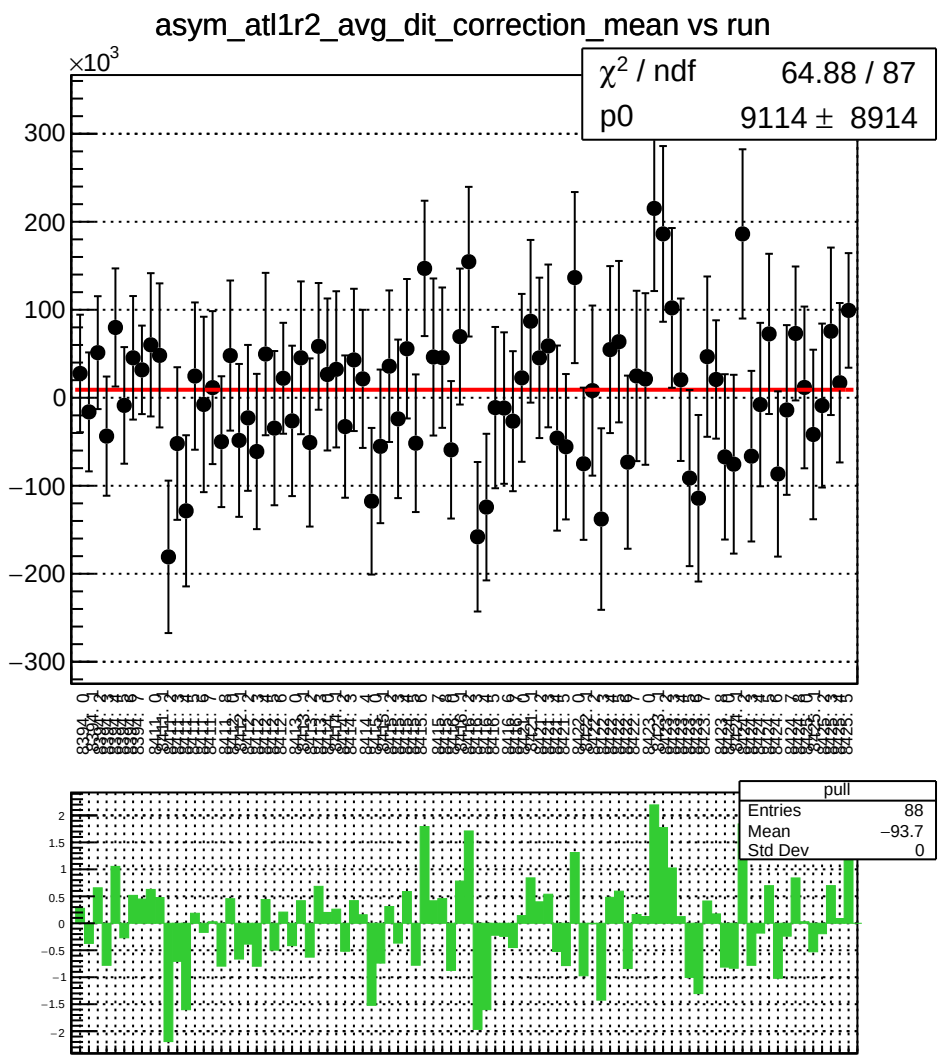

pull1D
Entries 88
Mean −0.01854
Std Dev 0.8576
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

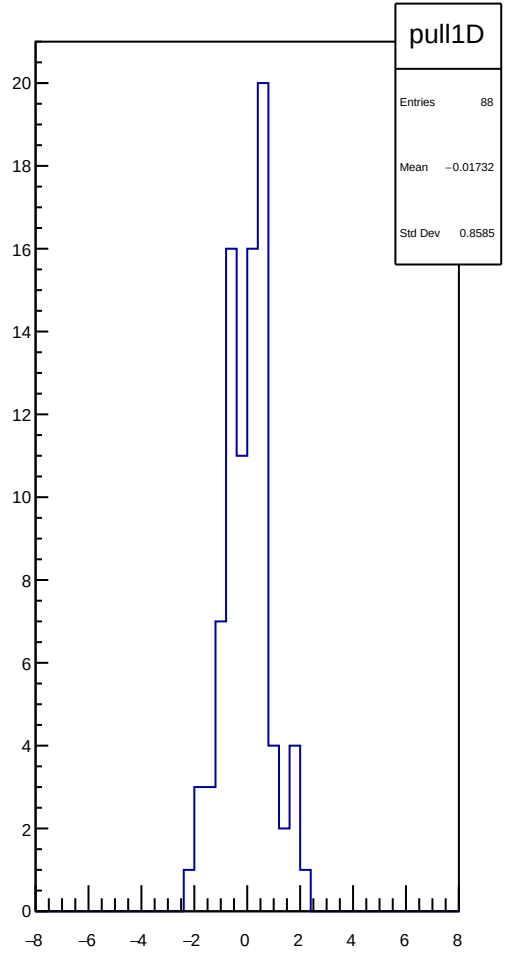

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.446e+04 / 87
p0 8129 ± 6.293
10000
9500
9000
8500
8000
7500
7000
6500
6000
5500

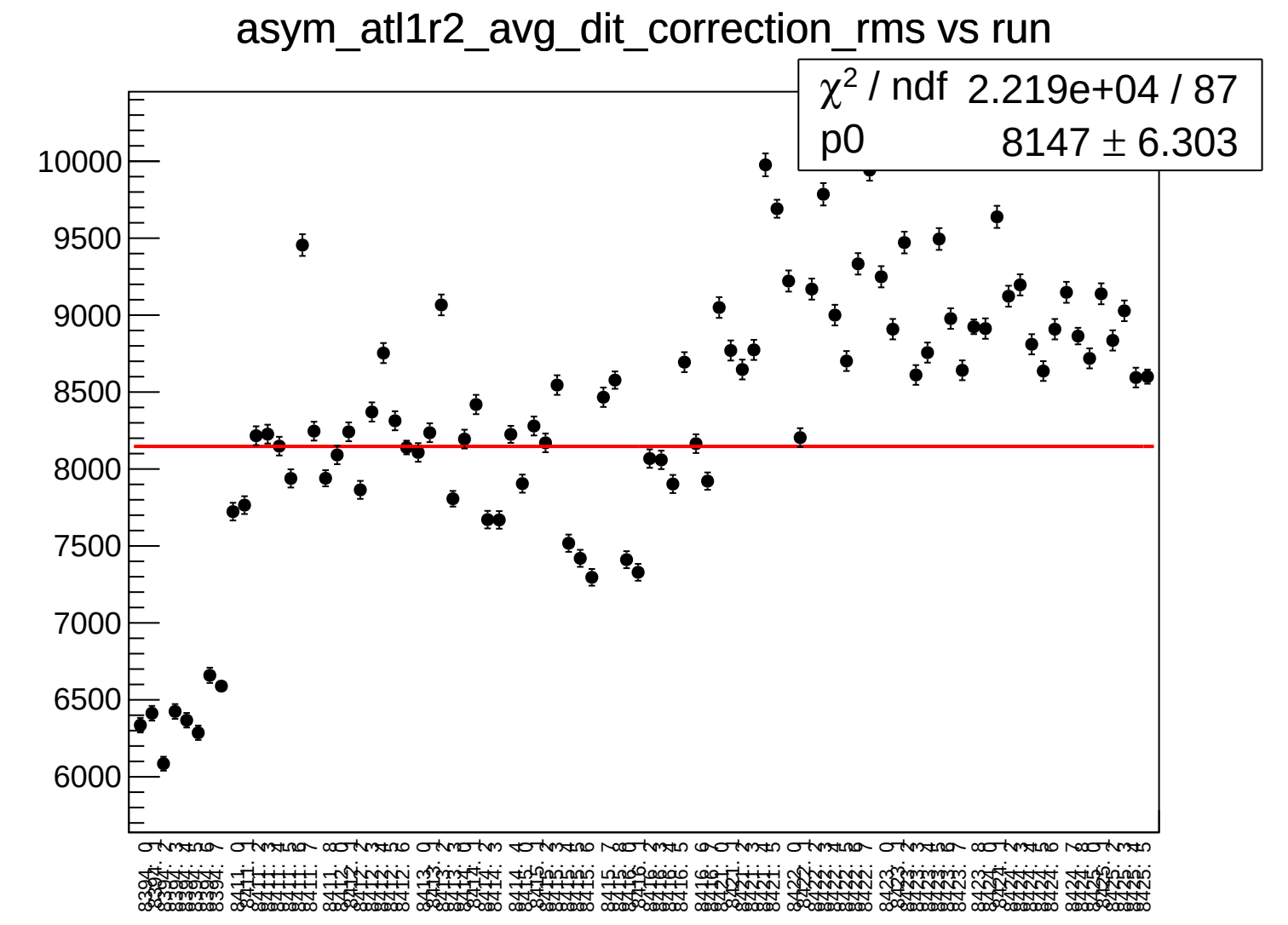

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 77.71 / 87
p0 −1159 ± 1989
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −422.5
Std Dev 0
2
1
0
−1
−2

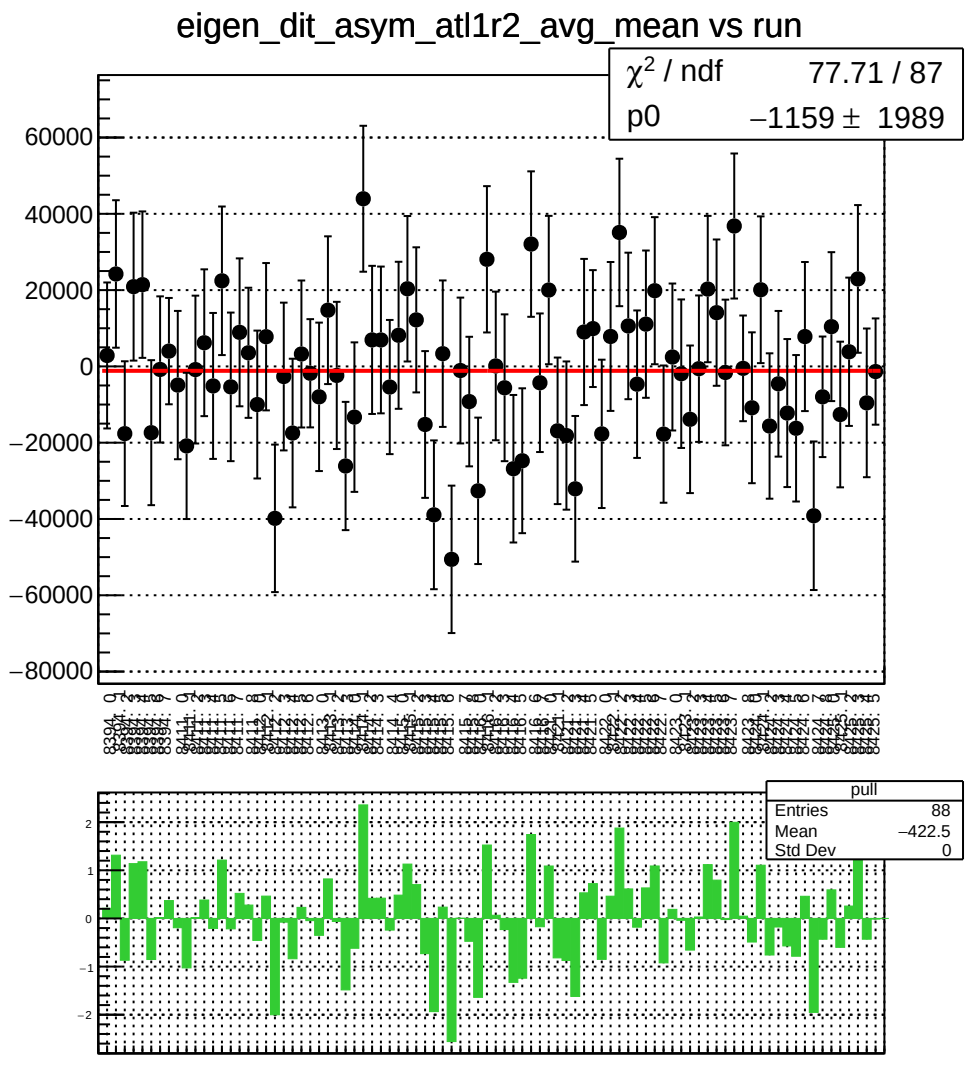

pull1D
Entries 88
Mean 0.0004876
Std Dev 0.9397
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

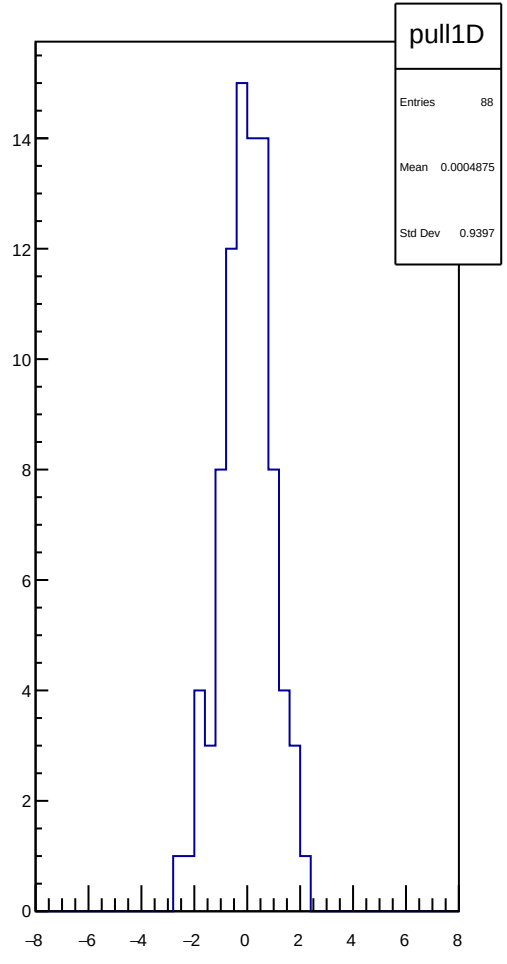

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 116.2 / 87
p0 1830 ± 1.406
1900
1880
1860
1840
1820
1800
1780

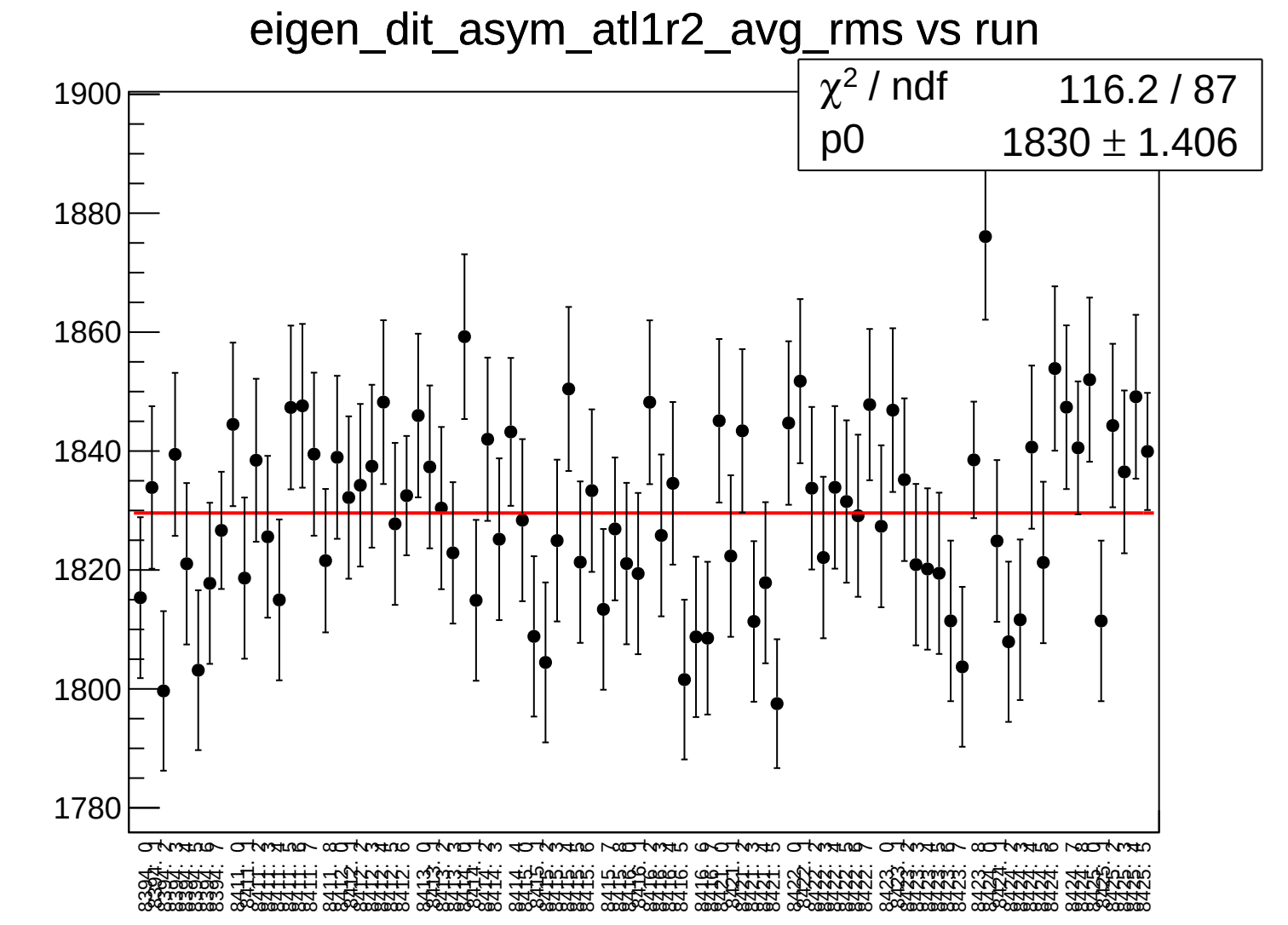

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 64.88 / 87
p0 9114 ± 8914
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −93.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

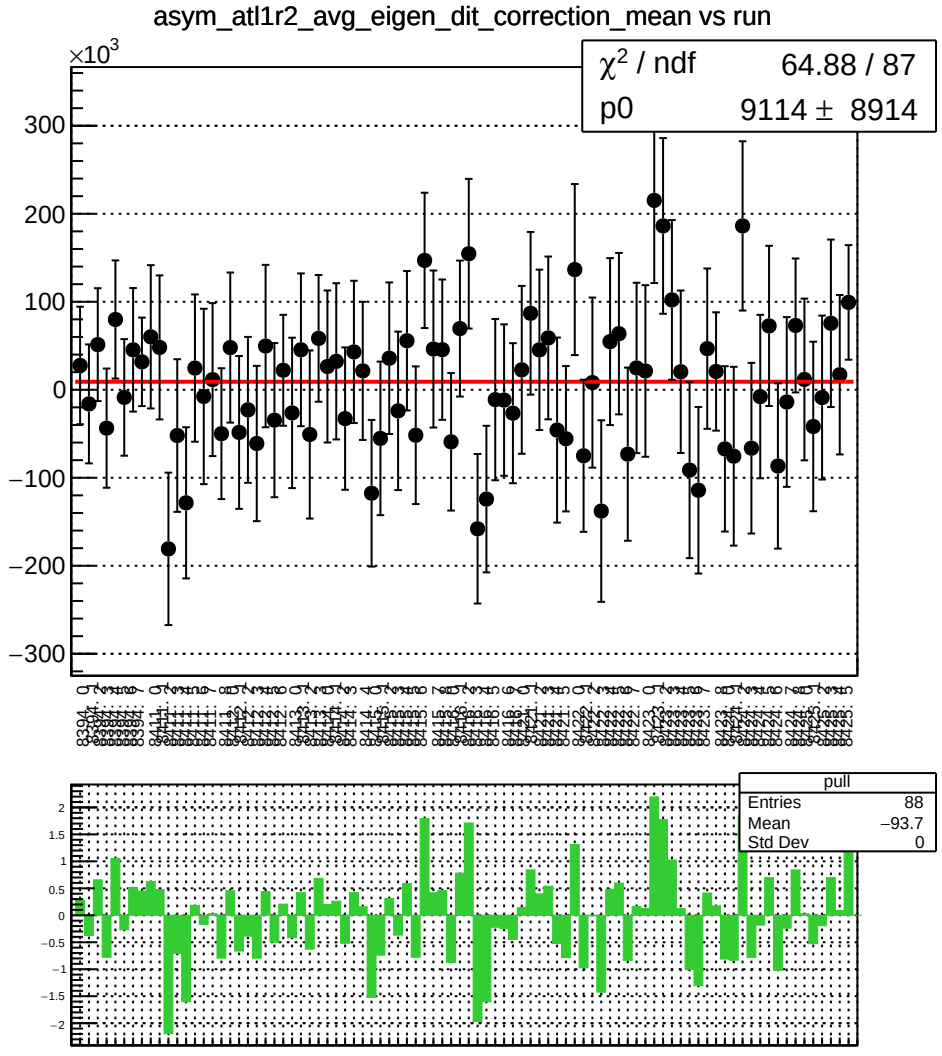

pull1D
Entries 88
Mean −0.01732
Std Dev 0.8585
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

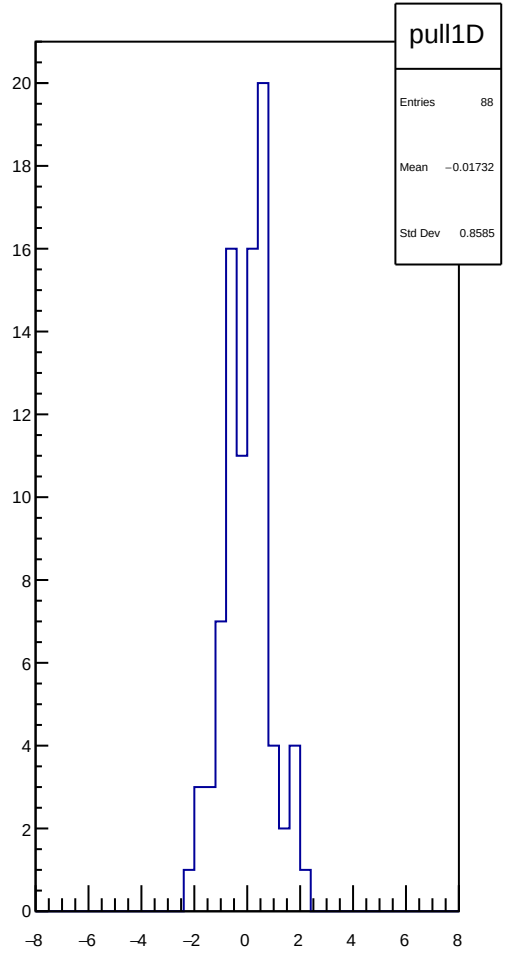

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 2.219e+04 / 87
p0 8147 ± 6.303
10000
9500
9000
8500
8000
7500
7000
6500
6000

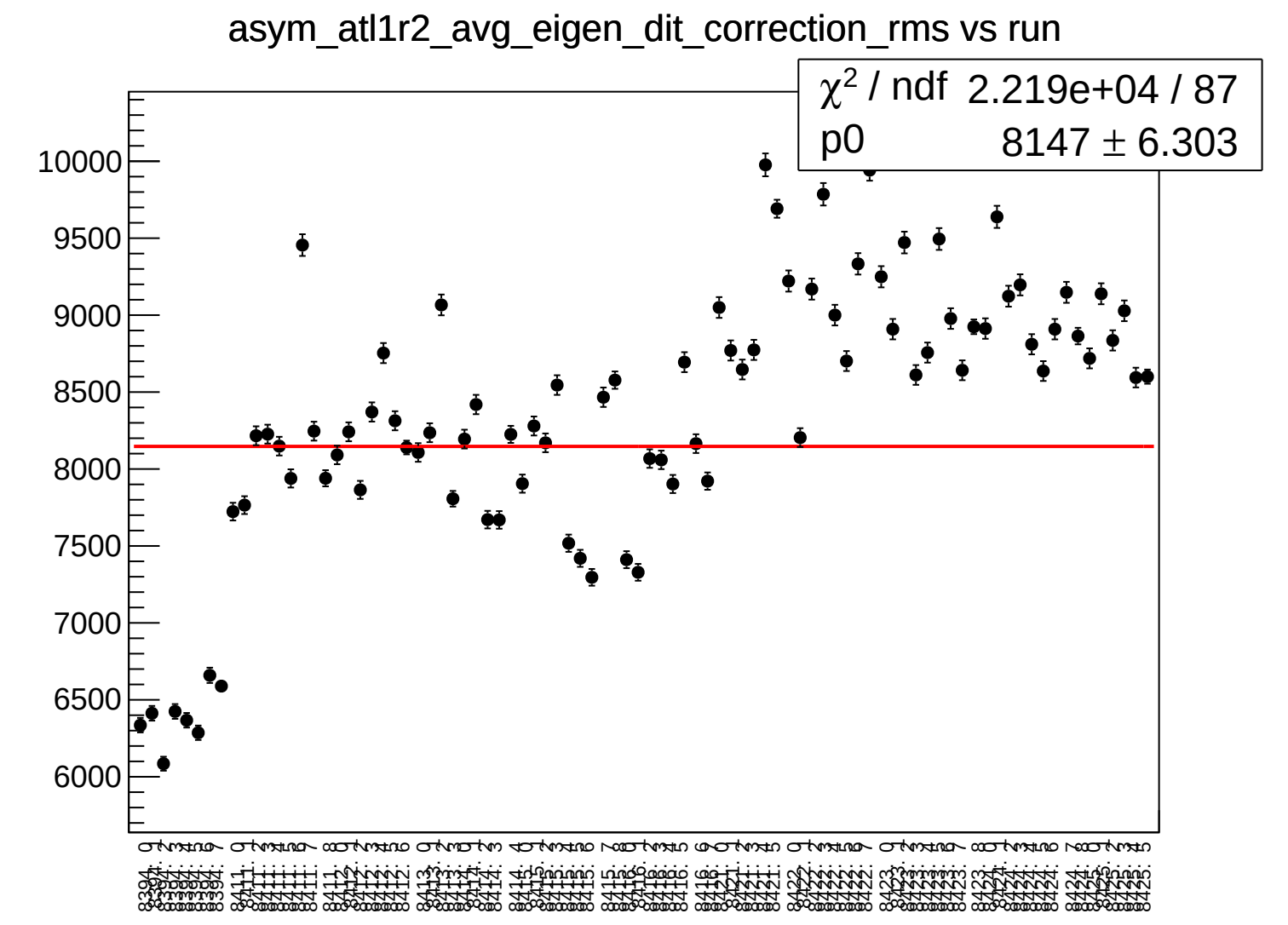

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 77.71 / 87
p0 −1159 ± 1989
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −422.5
Std Dev 0
2
1
0
−1
−2

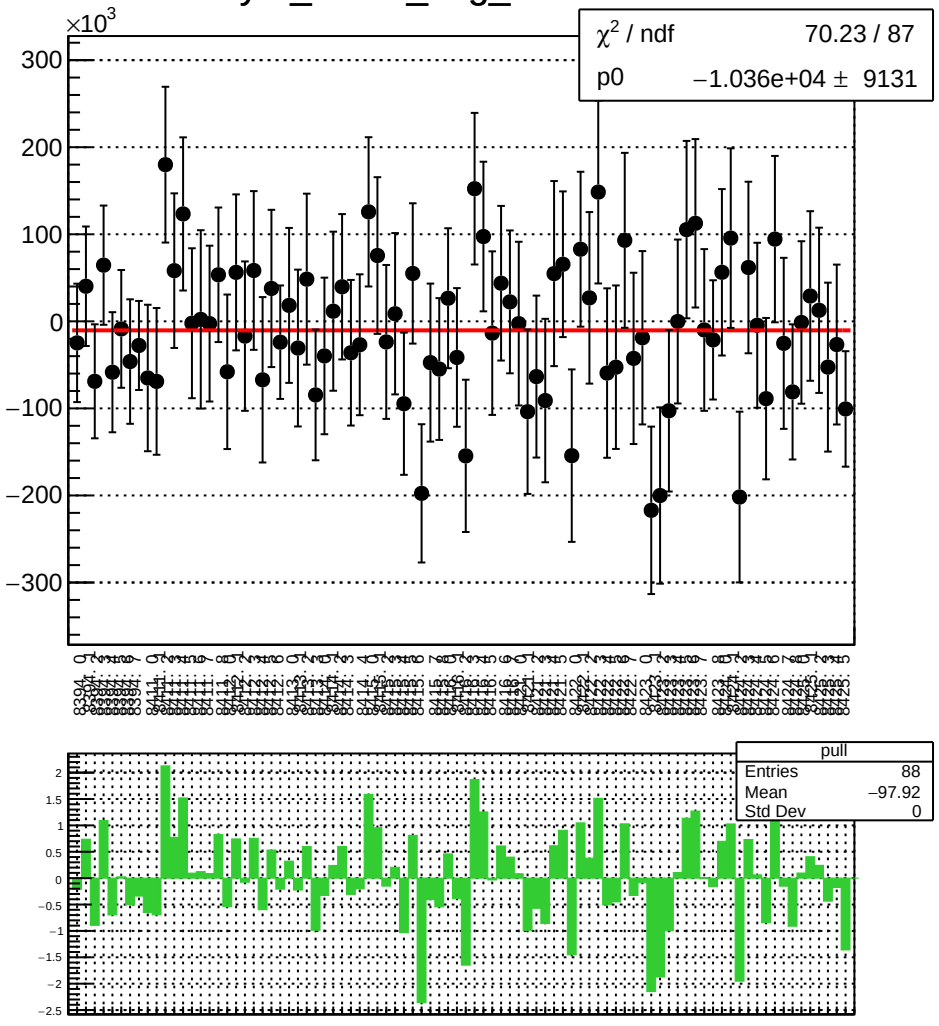

pull1D
Entries 88
Mean 0.0004875
Std Dev 0.9397
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

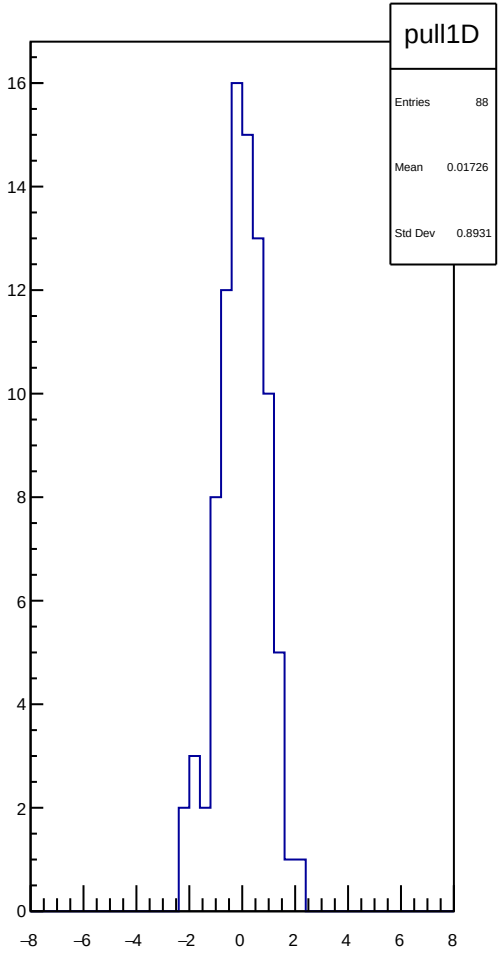

eigen_dit_asym_atl1r2_avg_rms vs run
χ^2 / ndf 116.2 / 87
p0 1830 ± 1.406
1900
1880
1860
1840
1820
1800
1780

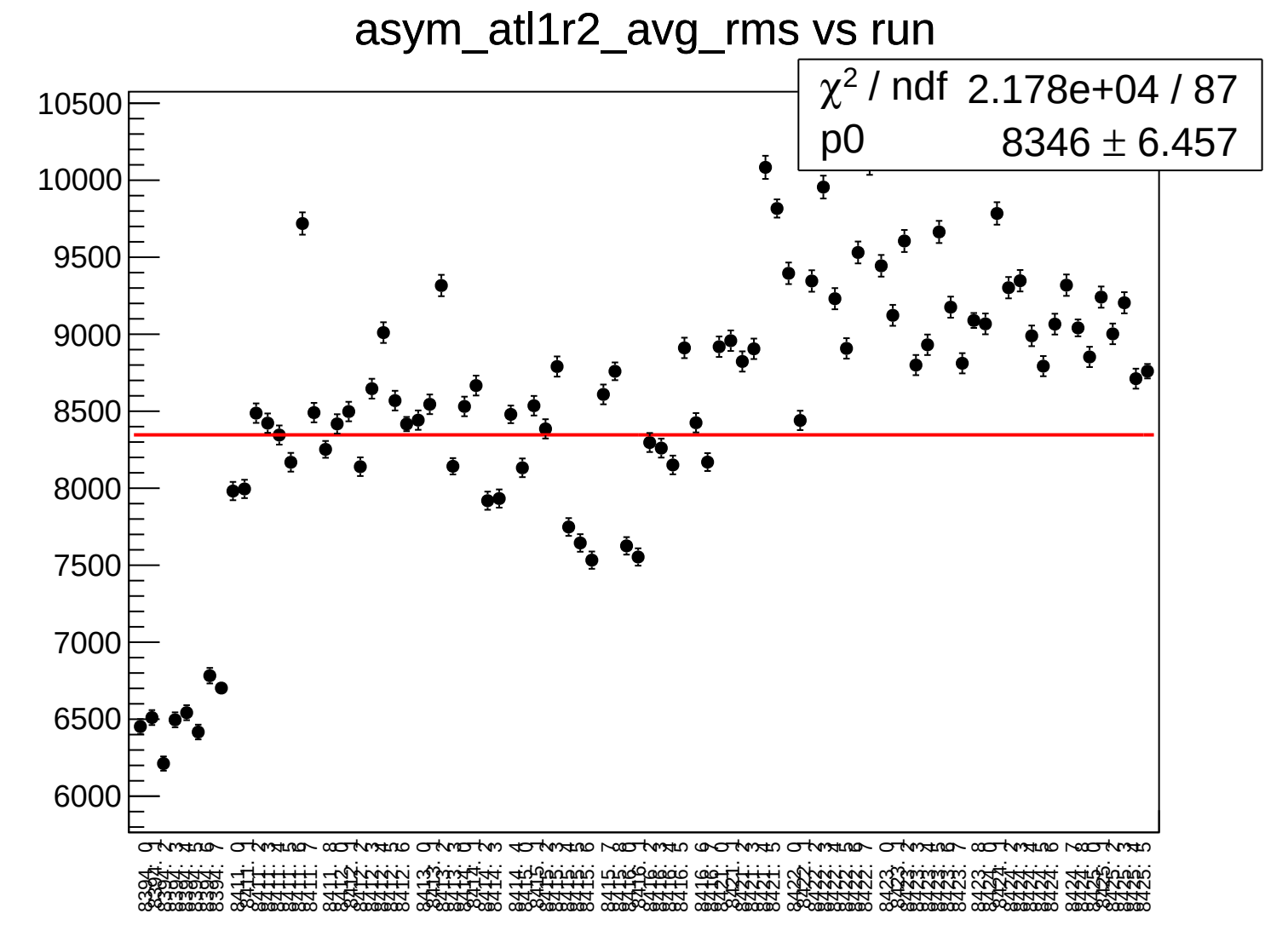

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 64.88 / 87
p0 9114 ± 8914
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −93.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

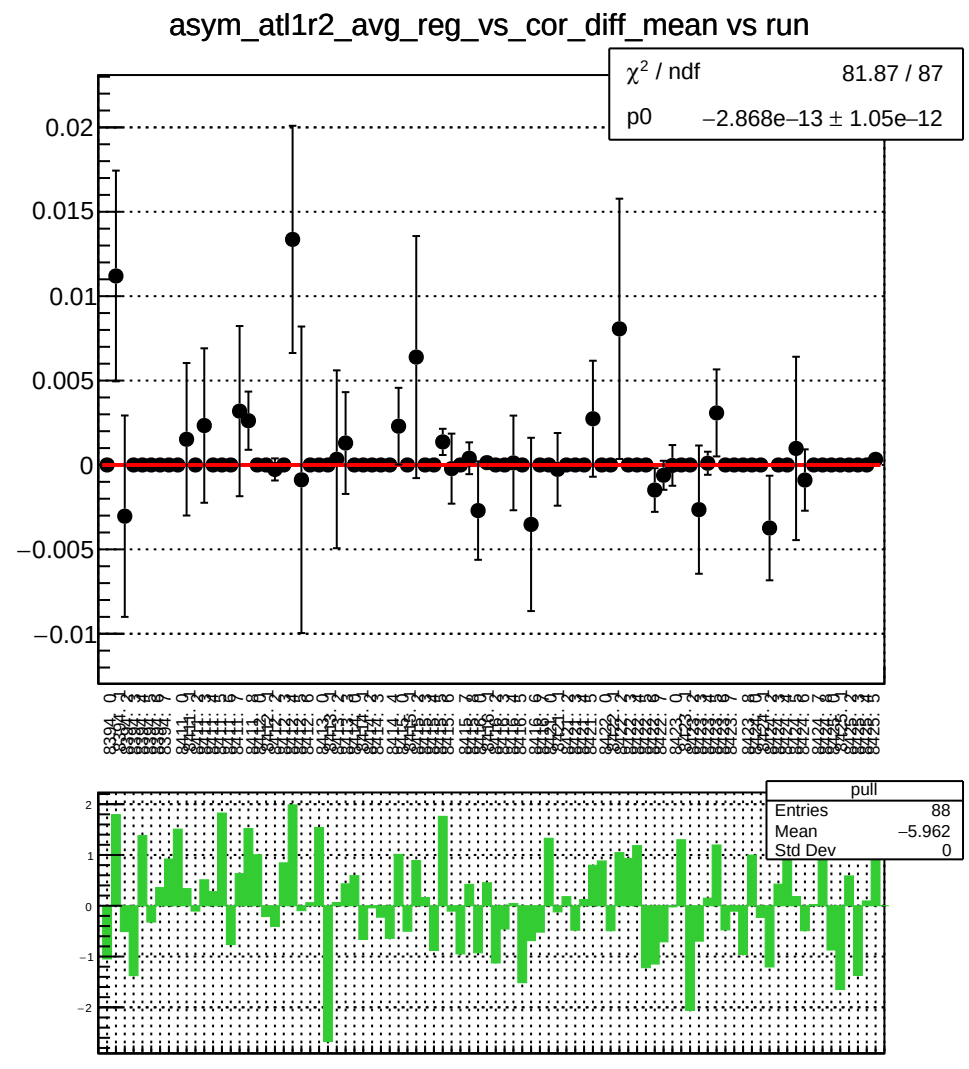

pull1D
Entries 88
Mean −0.01732
Std Dev 0.8585
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

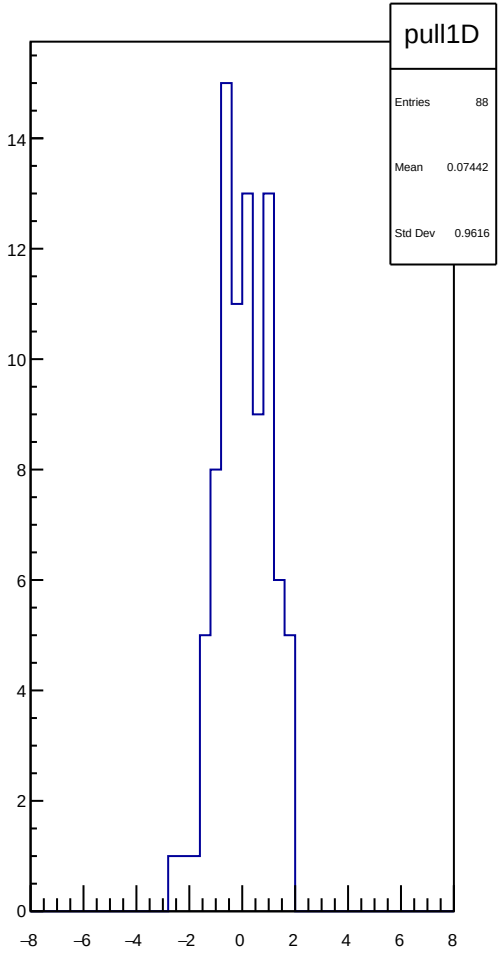

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.219e+04 / 87
p0 8147 ± 6.303
10000
9500
9000
8500
8000
7500
7000
6500
6000

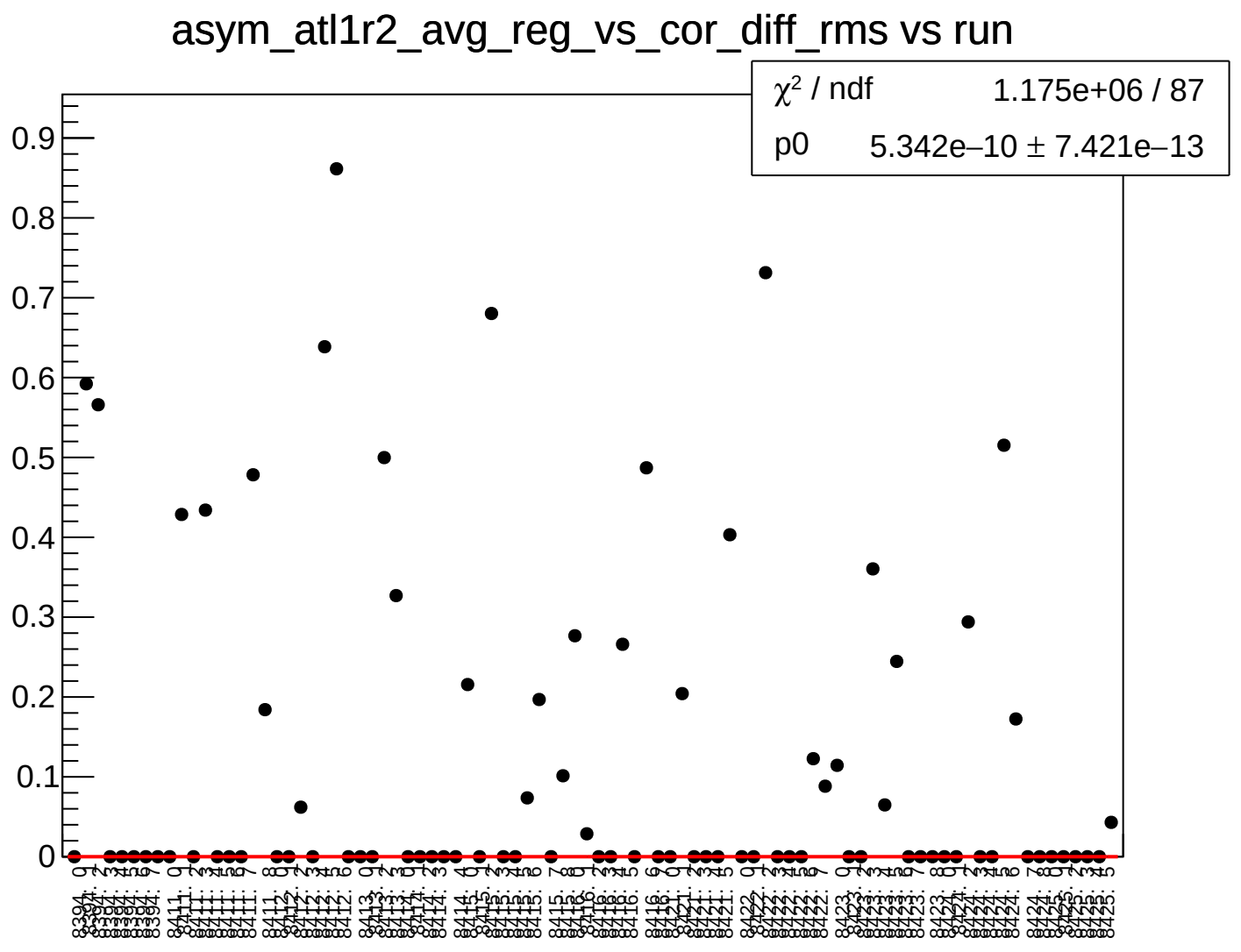

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 70.23 / 87
p0 −1.036e+04 ± 9131
pull
Entries 88
Mean −97.92
Std Dev 0

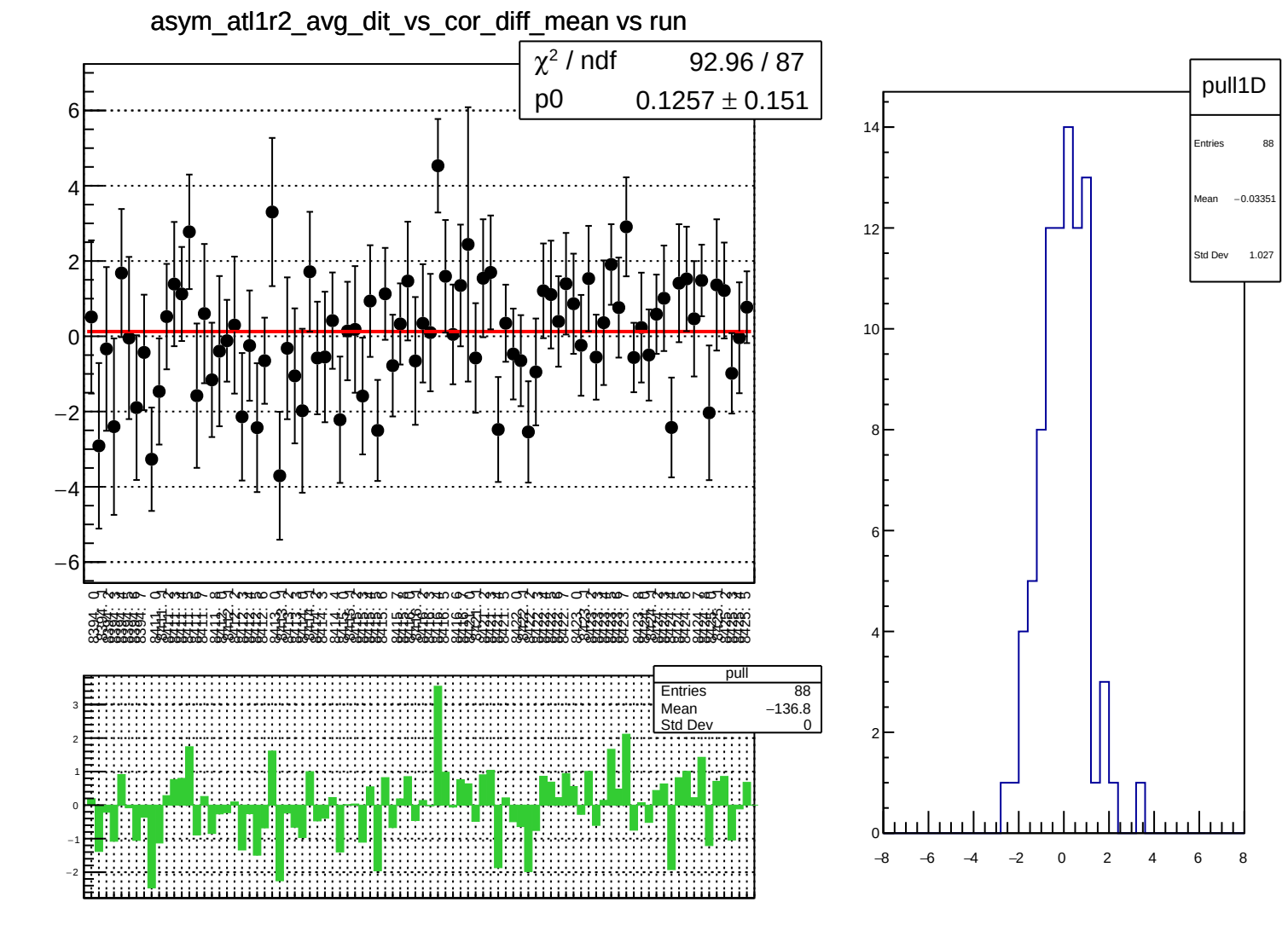

pull1D
Entries 88
Mean 0.01726
Std Dev 0.8931

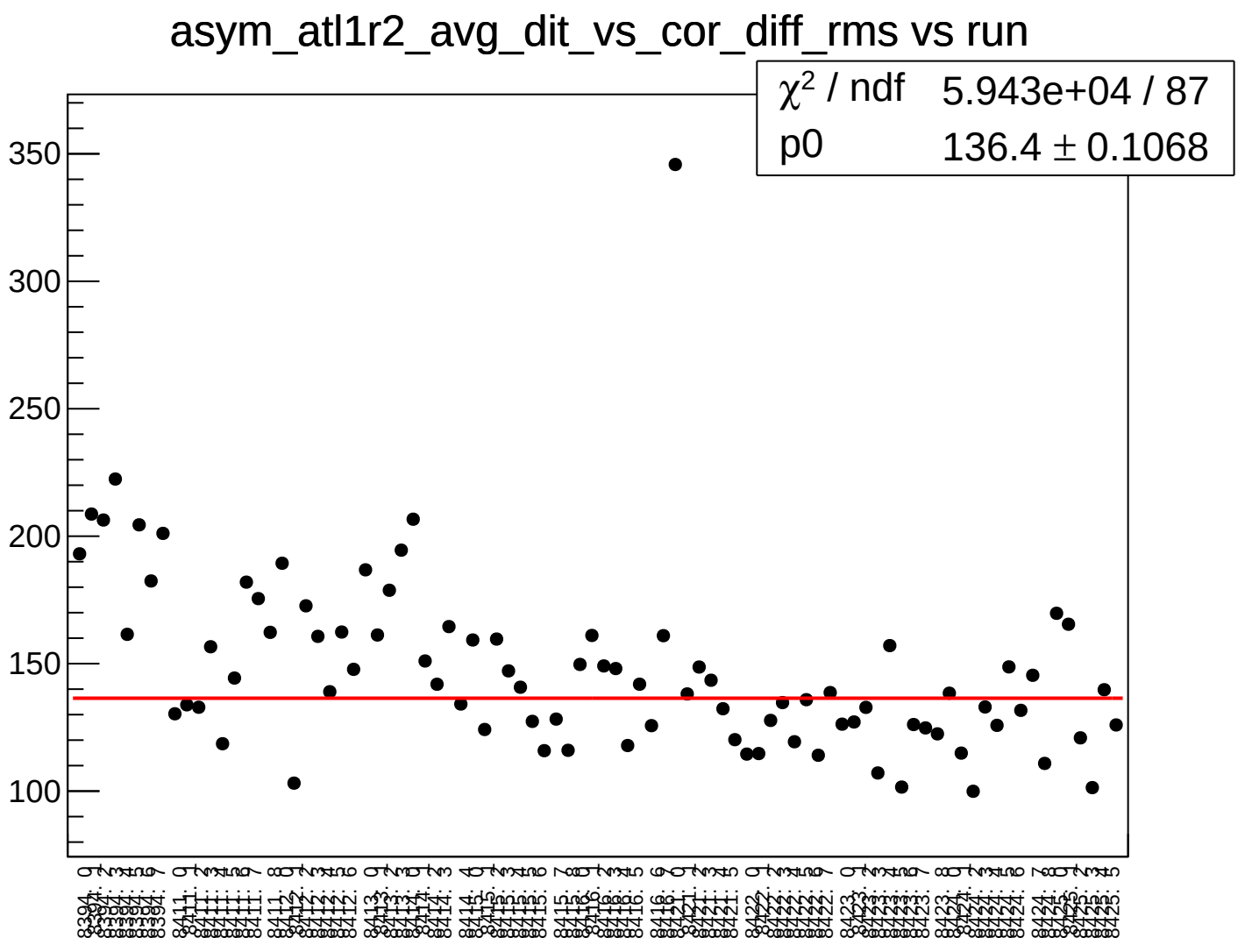

asym_atl1r2_avg_rms vs run
χ^2 / ndf 2.178e+04 / 87
p0 8346 ± 6.457
10500
10000
9500
9000
8500
8000
7500
7000
6500
6000

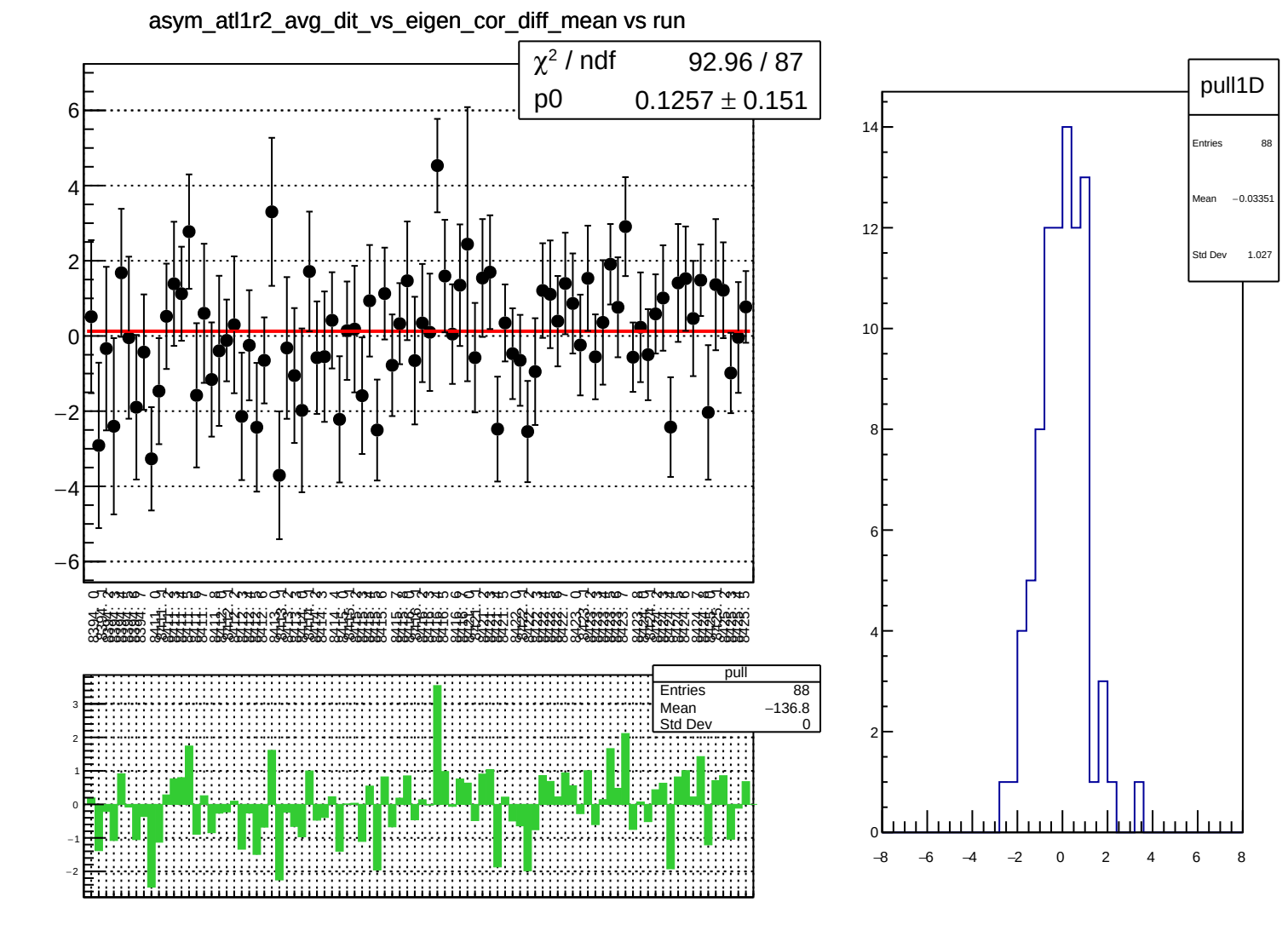

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.87 / 87
p0 −2.868e−13 ± 1.05e−12
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 88
Mean −5.962
Std Dev 0
2
1
0
−1
−2

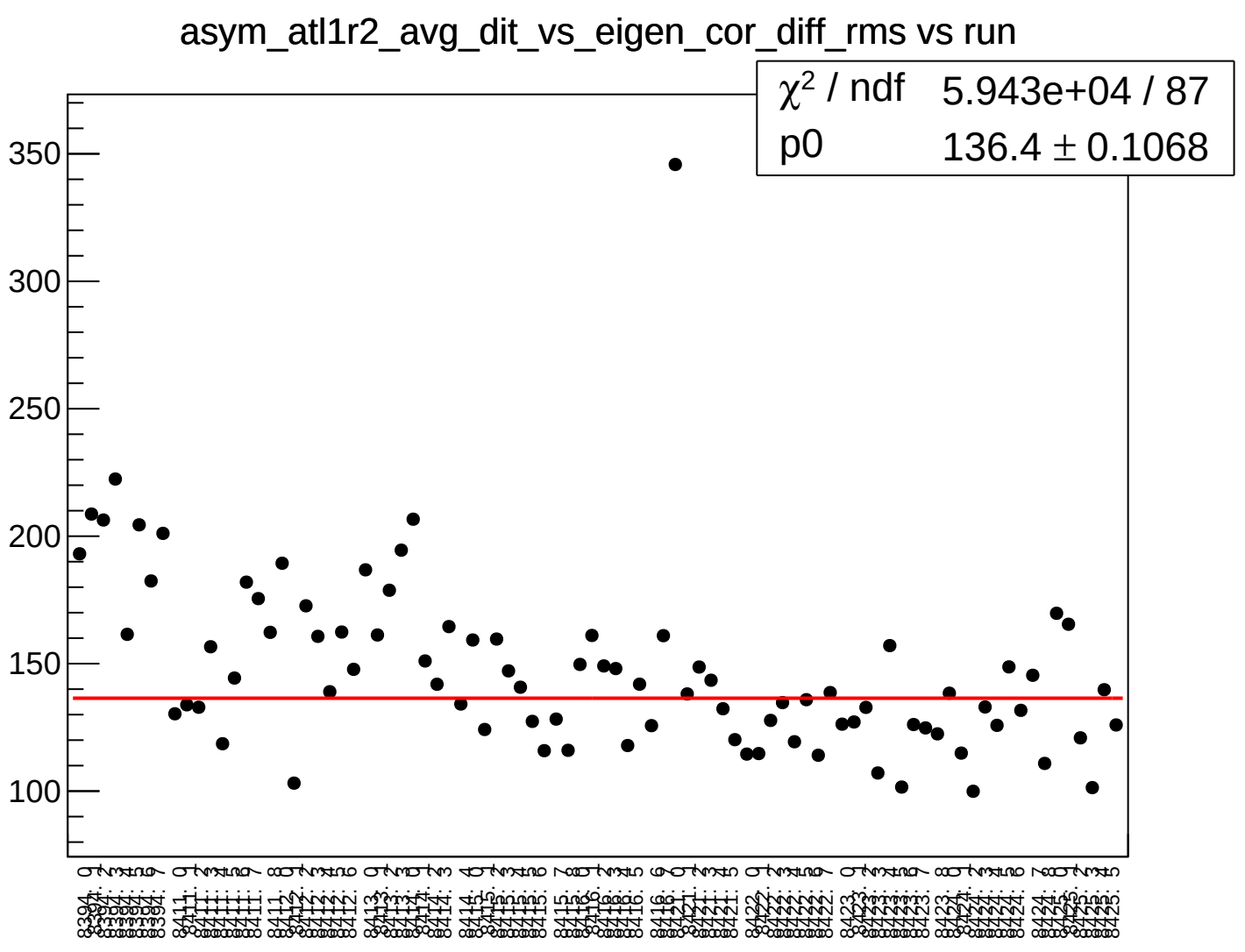

pull1D
Entries 88
Mean 0.07442
Std Dev 0.9616
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

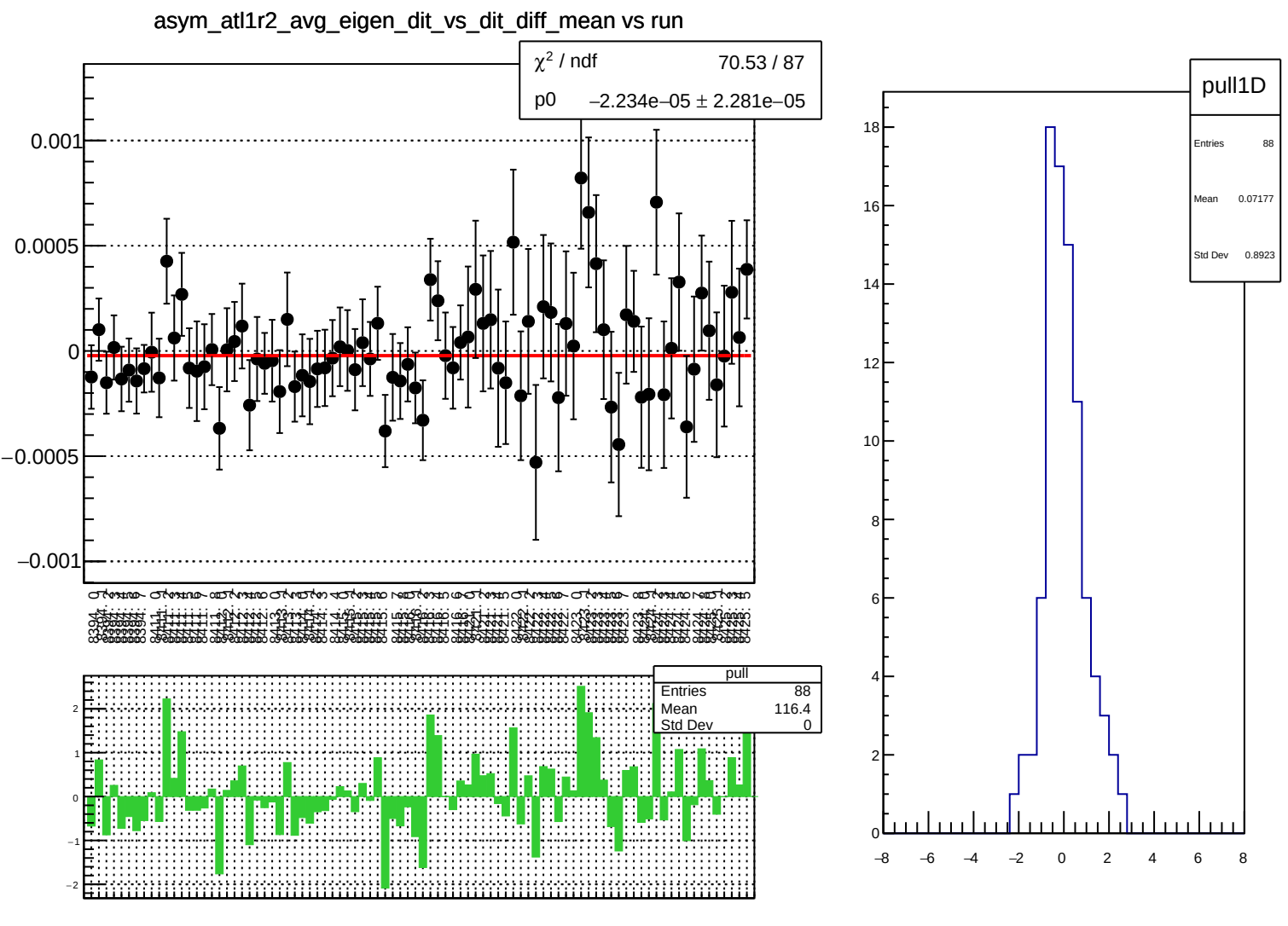

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.175e+06 / 87
p0 5.342e−10 ± 7.421e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

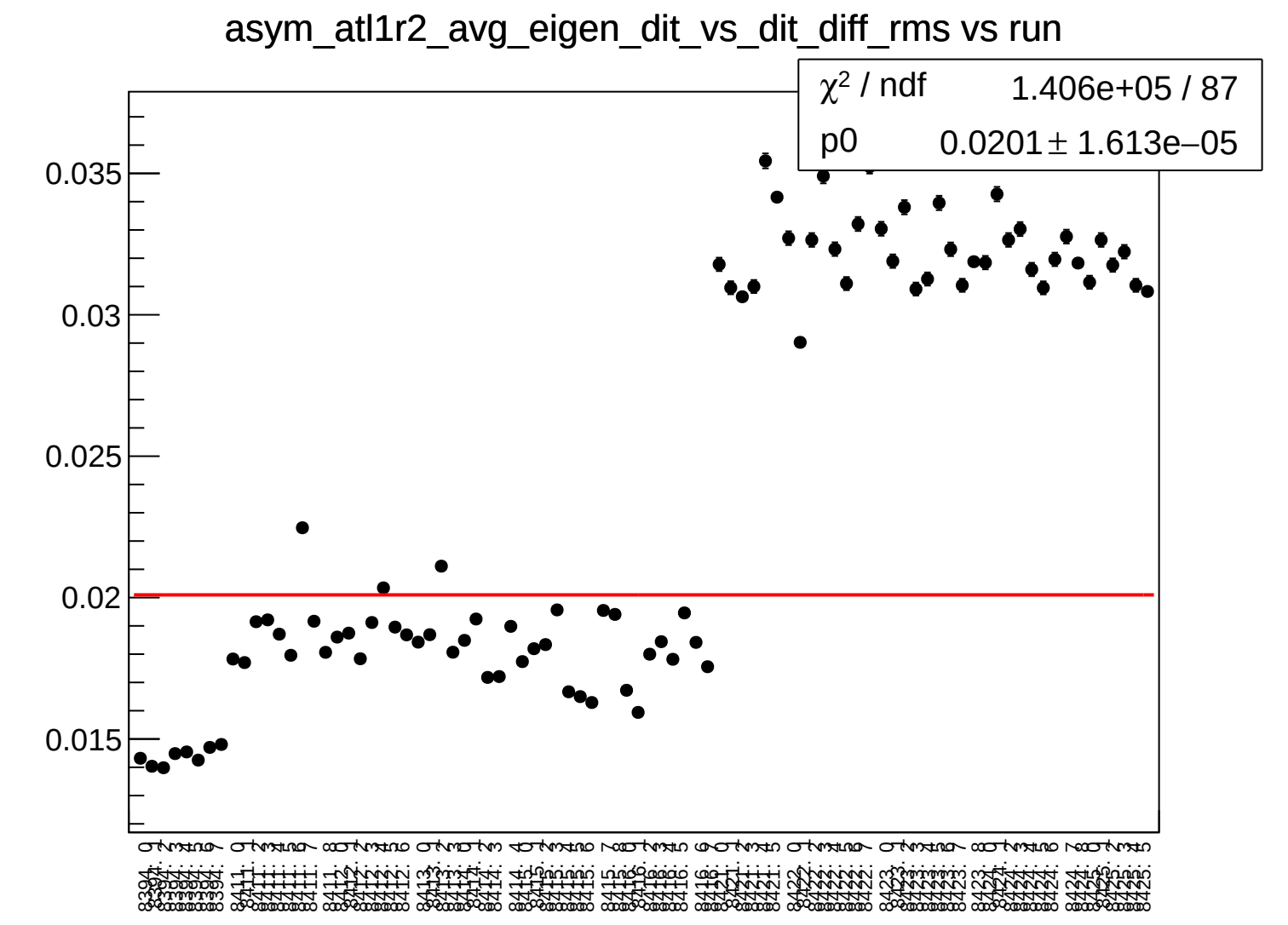

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.96 / 87
p0 0.1257 ± 0.151
pull
Entries 88
Mean −136.8
Std Dev 0
pull1D
Entries 88
Mean −0.03351
Std Dev 1.027

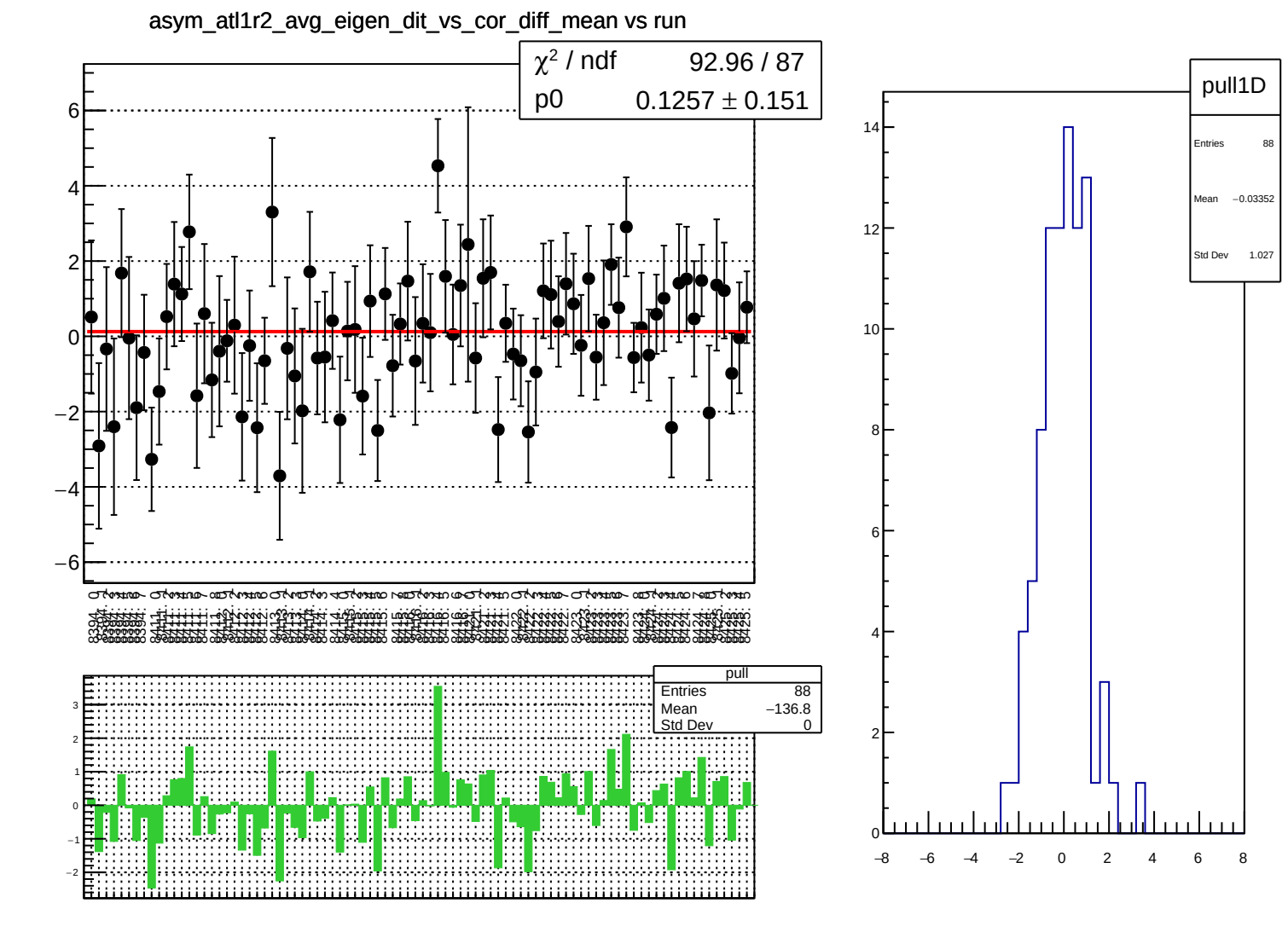

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.943e+04 / 87
p0 136.4 ± 0.1068
350
300
250
200
150
100

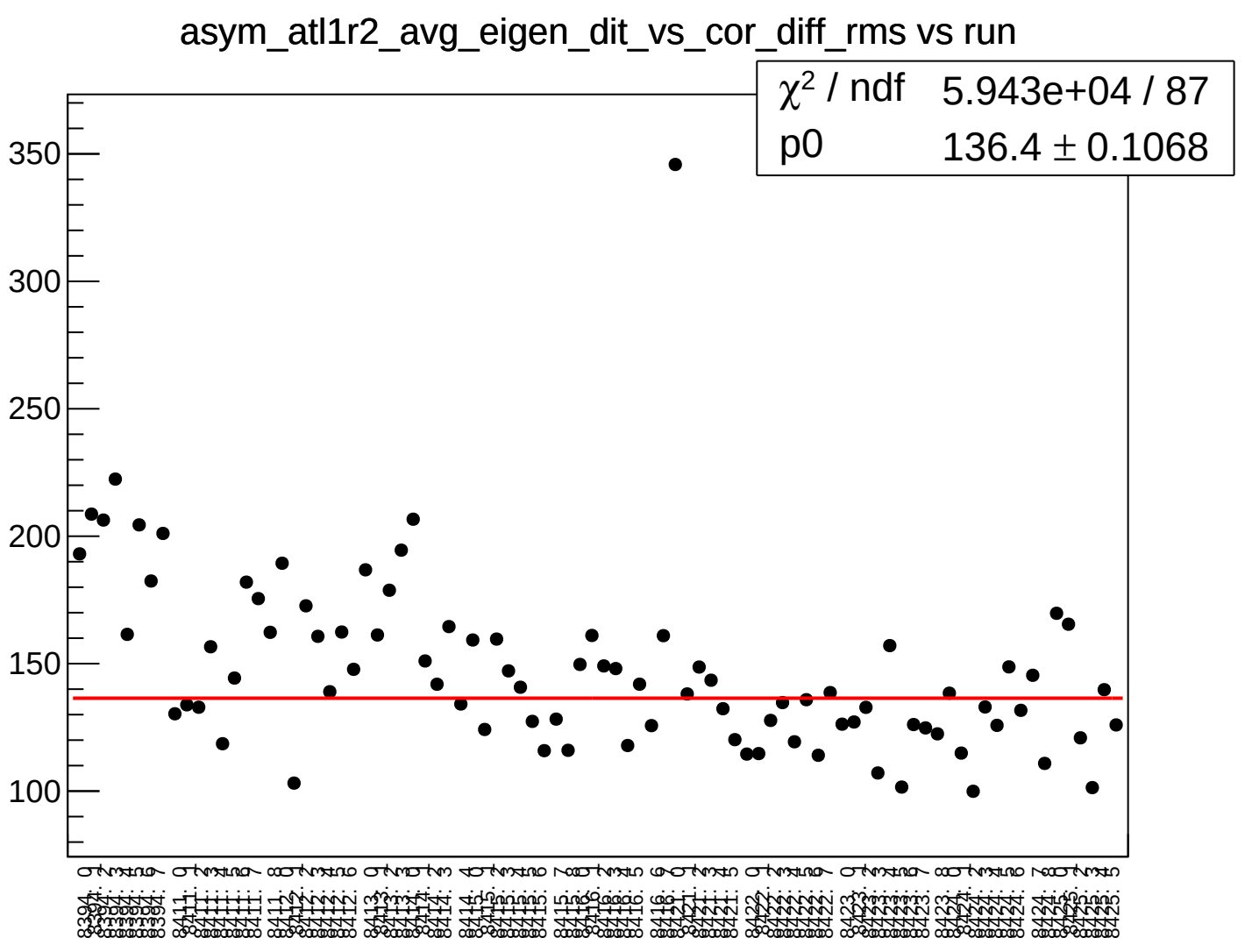

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.96 / 87
p0 0.1257 ± 0.151
pull
Entries 88
Mean −136.8
Std Dev 0
pull1D
Entries 88
Mean −0.03351
Std Dev 1.027

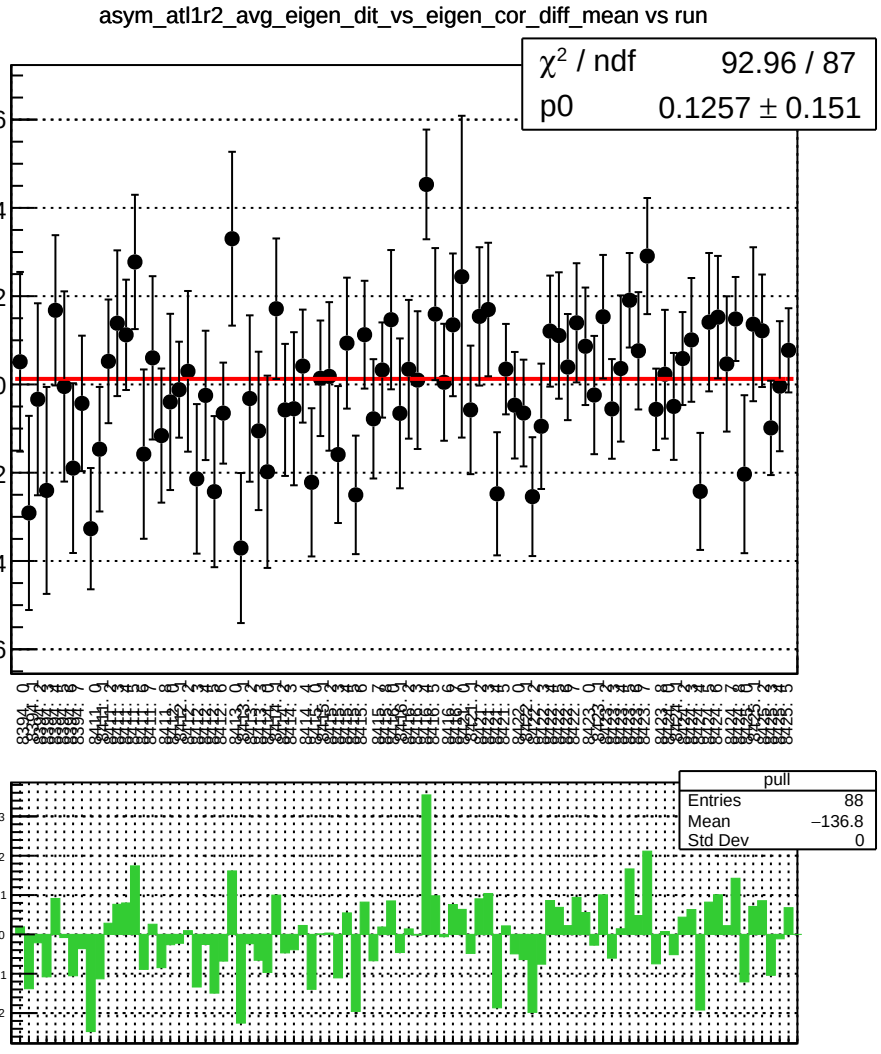

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.943e+04 / 87
p0 136.4 ± 0.1068
350
300
250
200
150
100

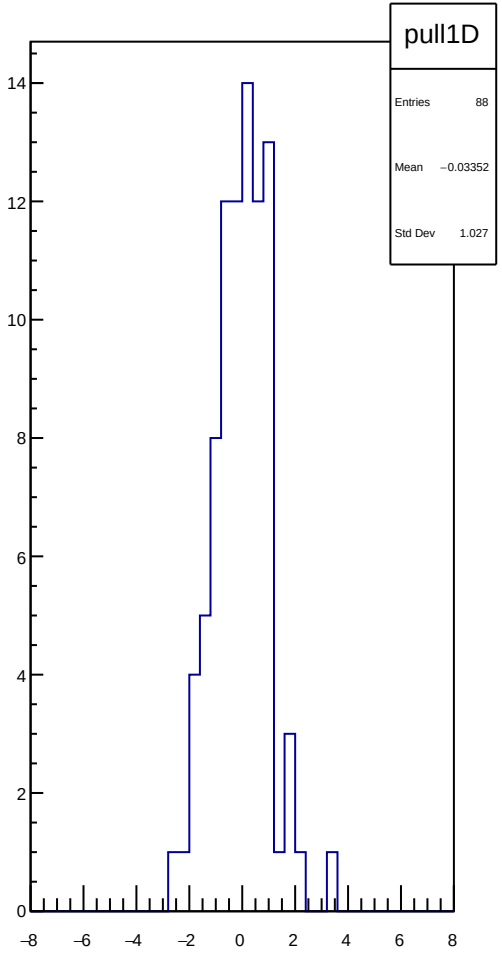

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 70.53 / 87
p0 −2.234e−05 ± 2.281e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean 116.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.07177
Std Dev 0.8923
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

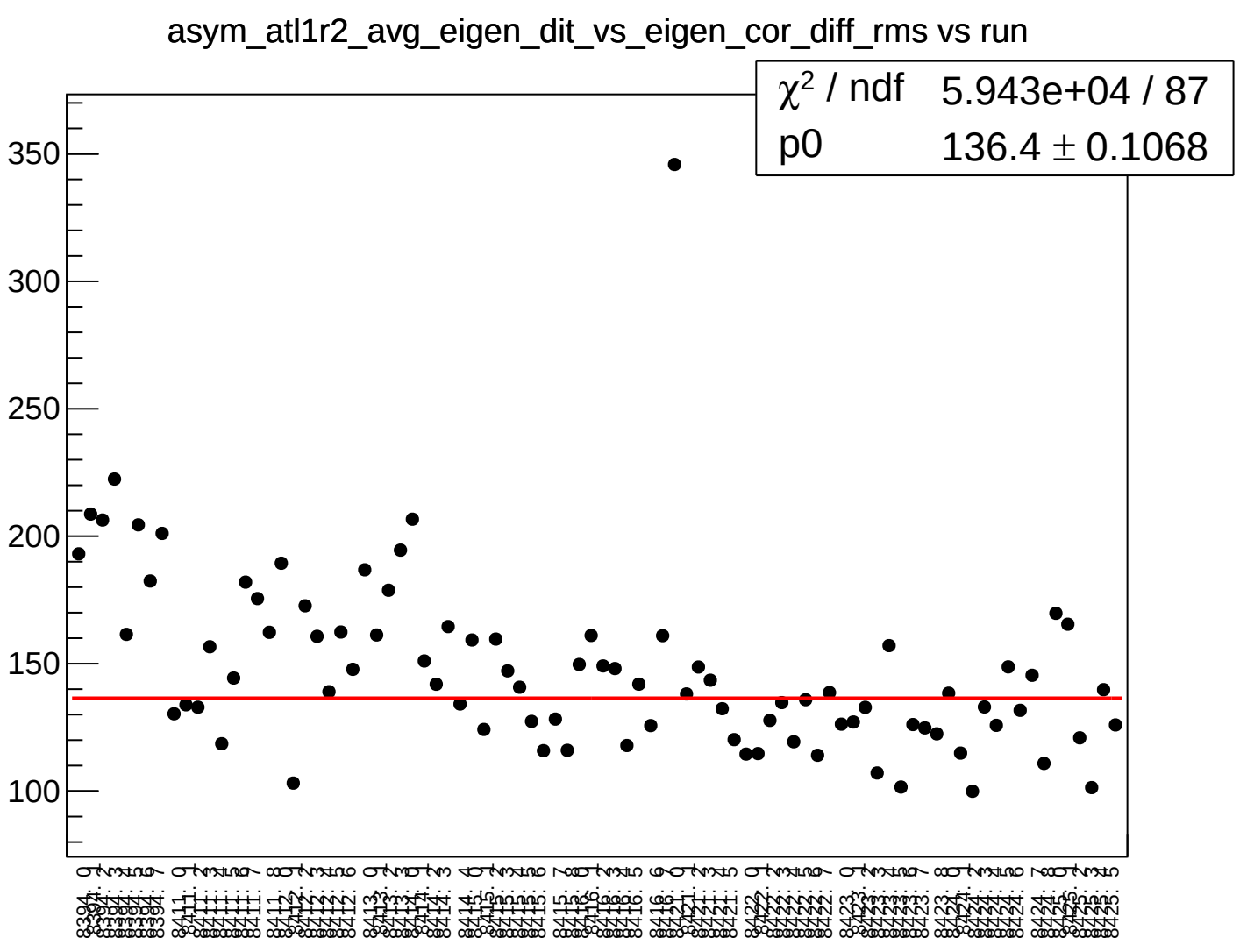

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.406e+05 / 87
p0 0.0201 ± 1.613e−05
0.035
0.03
0.025
0.02
0.015

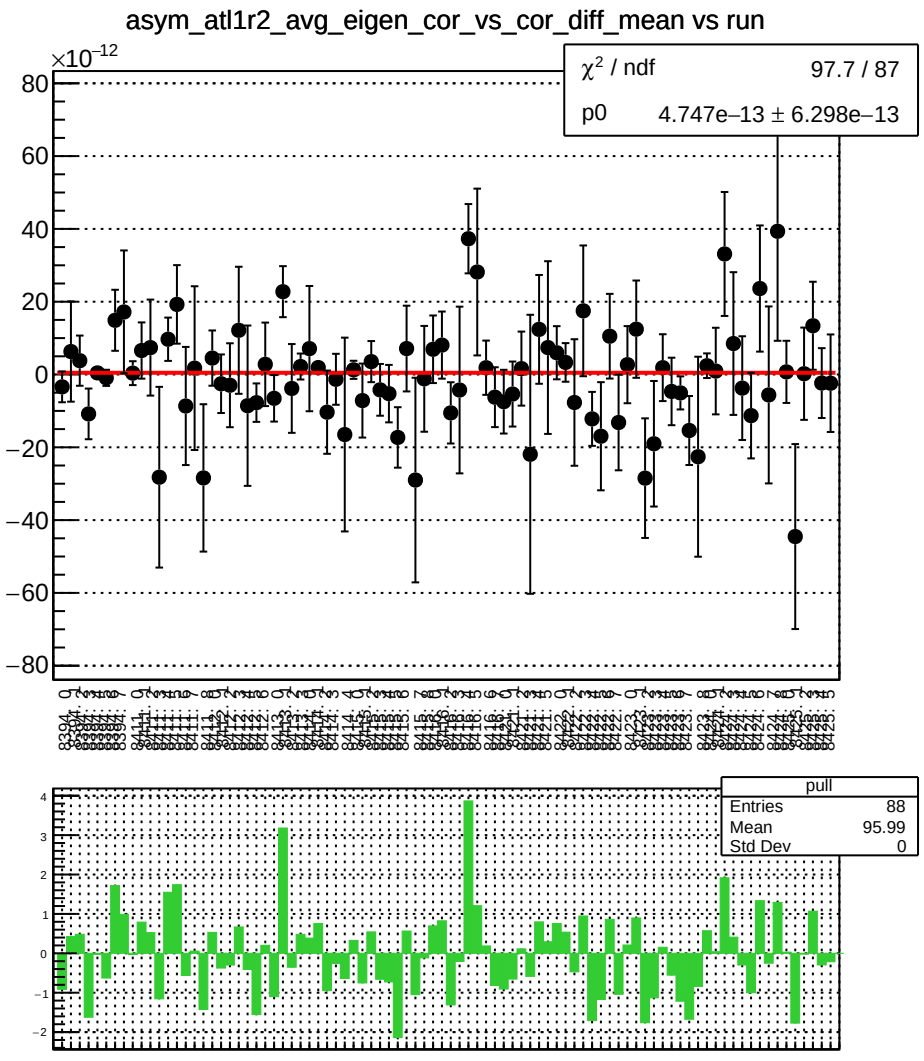

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.96 / 87
p0 0.1257 ± 0.151
pull
Entries 88
Mean −136.8
Std Dev 0
pull1D
Entries 88
Mean −0.03352
Std Dev 1.027

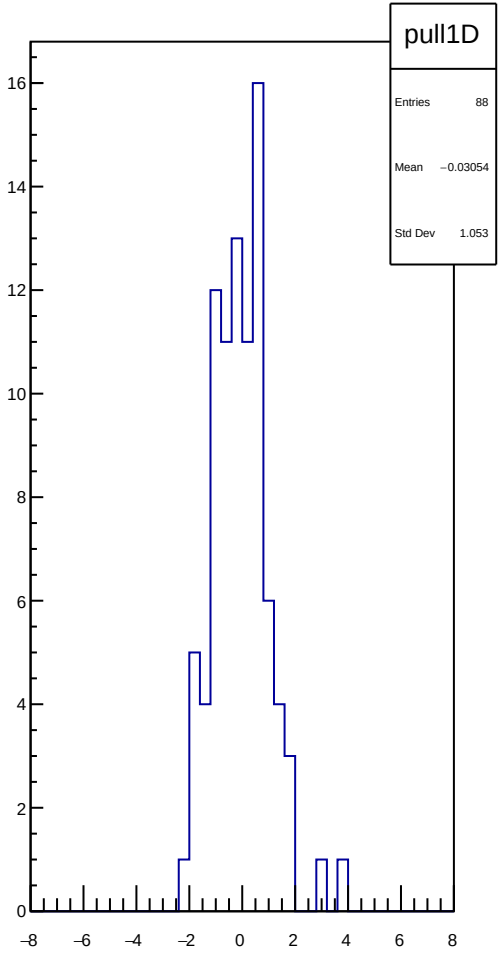

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.943e+04 / 87
p0 136.4 ± 0.1068
350
300
250
200
150
100

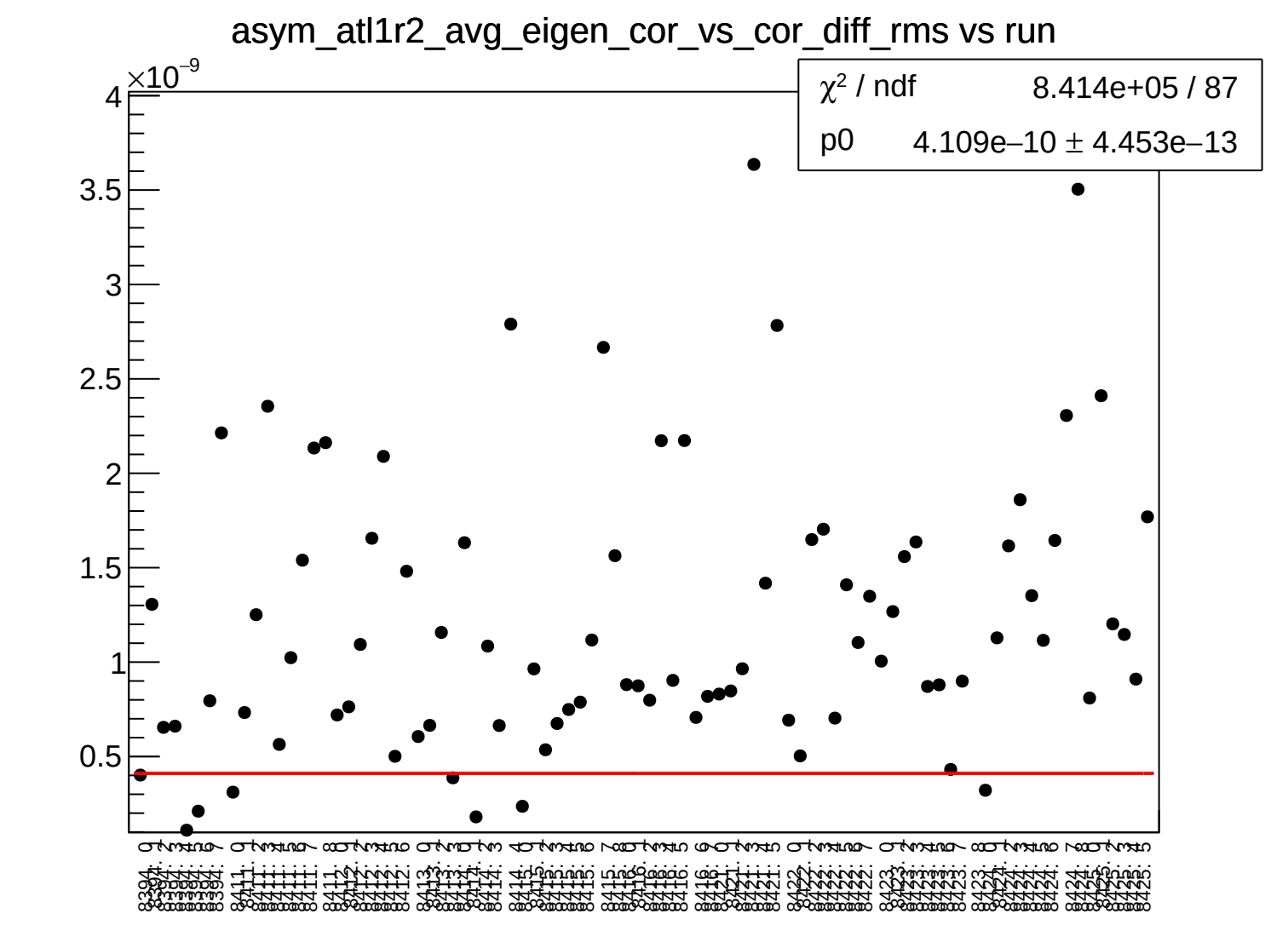

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.96 / 87
p0 0.1257 ± 0.151
pull
Entries 88
Mean −136.8
Std Dev 0

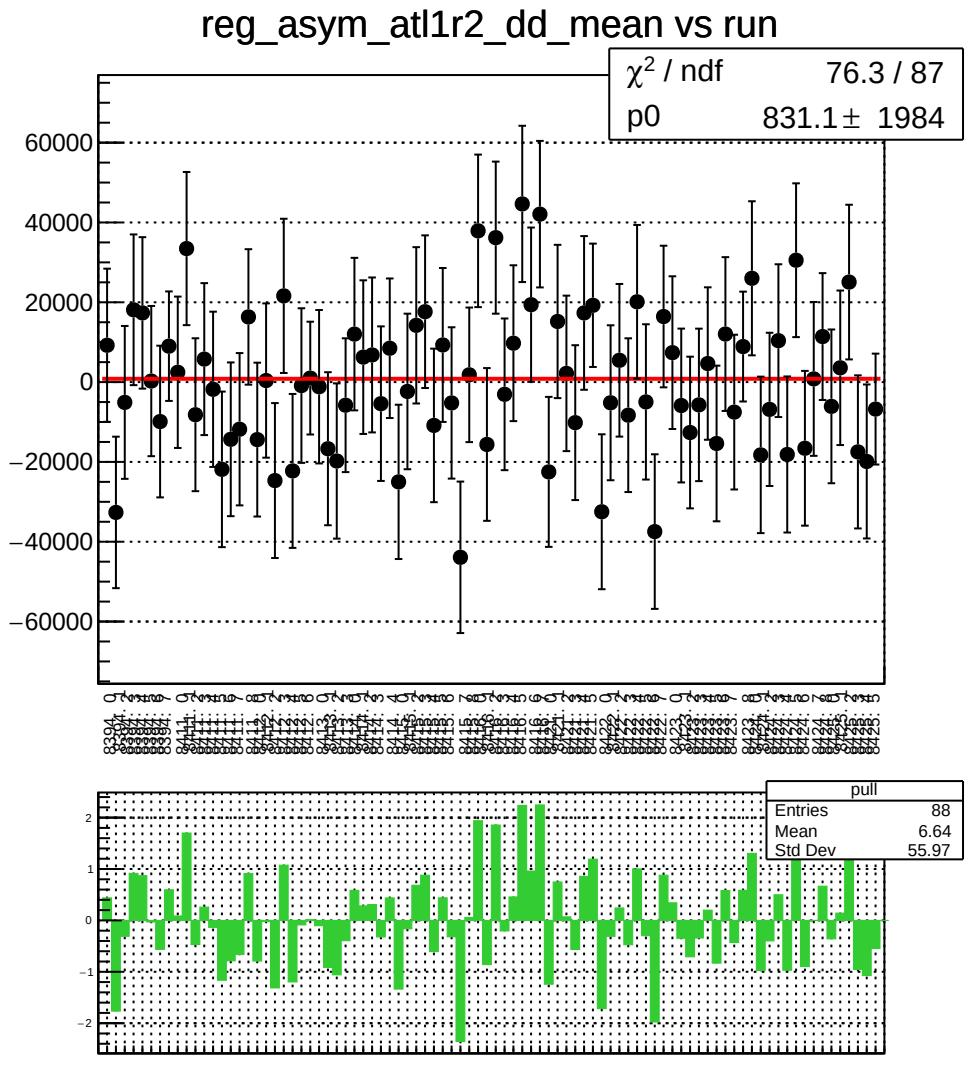

pull1D
Entries 88
Mean −0.03352
Std Dev 1.027

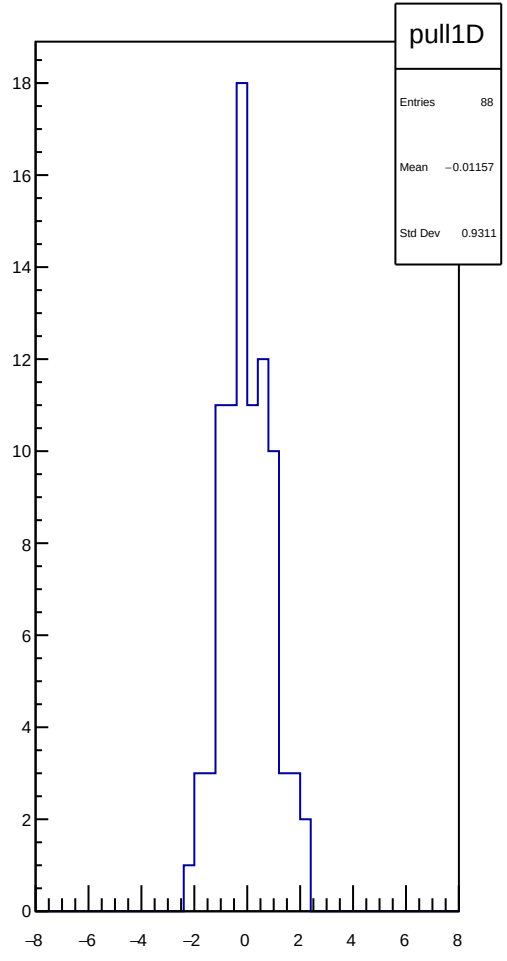

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.943e+04 / 87
p0 136.4 ± 0.1068
350
300
250
200
150
100

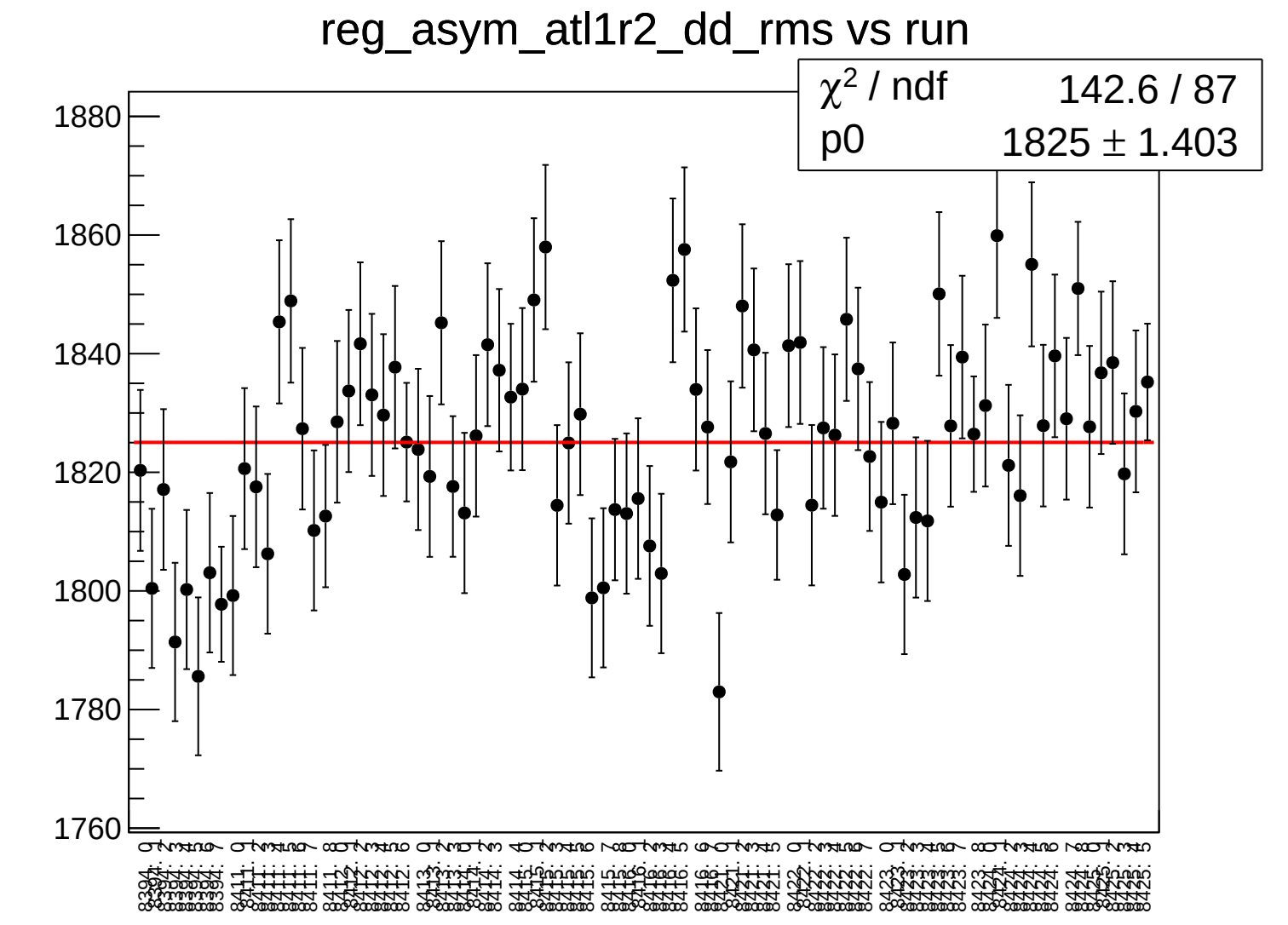

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.7 / 87
p0 4.747e−13 ± 6.298e−13
pull
Entries 88
Mean 95.99
Std Dev 0

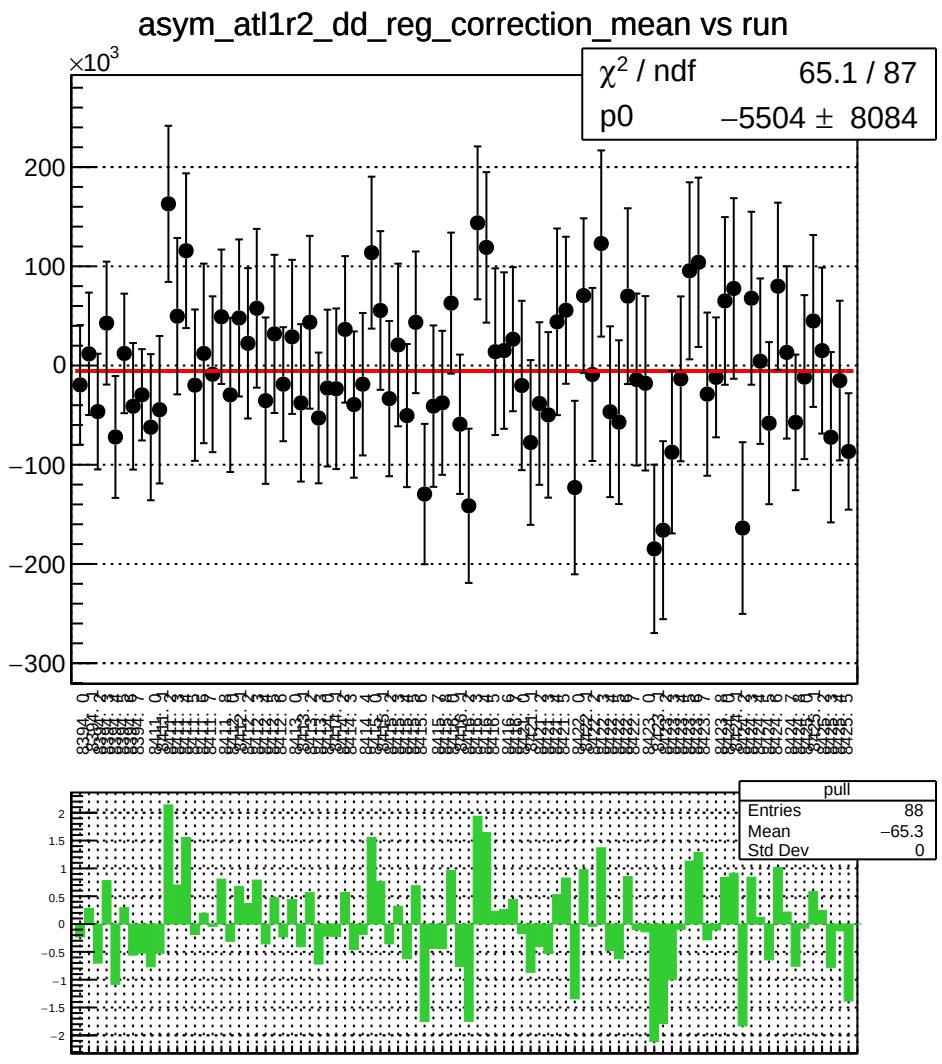

pull1D
Entries 88
Mean −0.03054
Std Dev 1.053

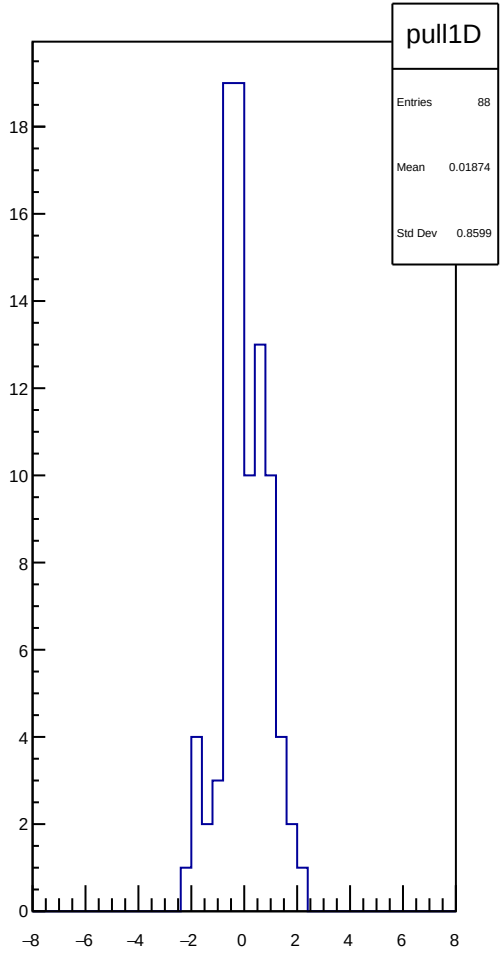

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.414e+05 / 87
p0 4.109e−10 ± 4.453e−13
4
3.5
3
2.5
2
1.5
1
0.5

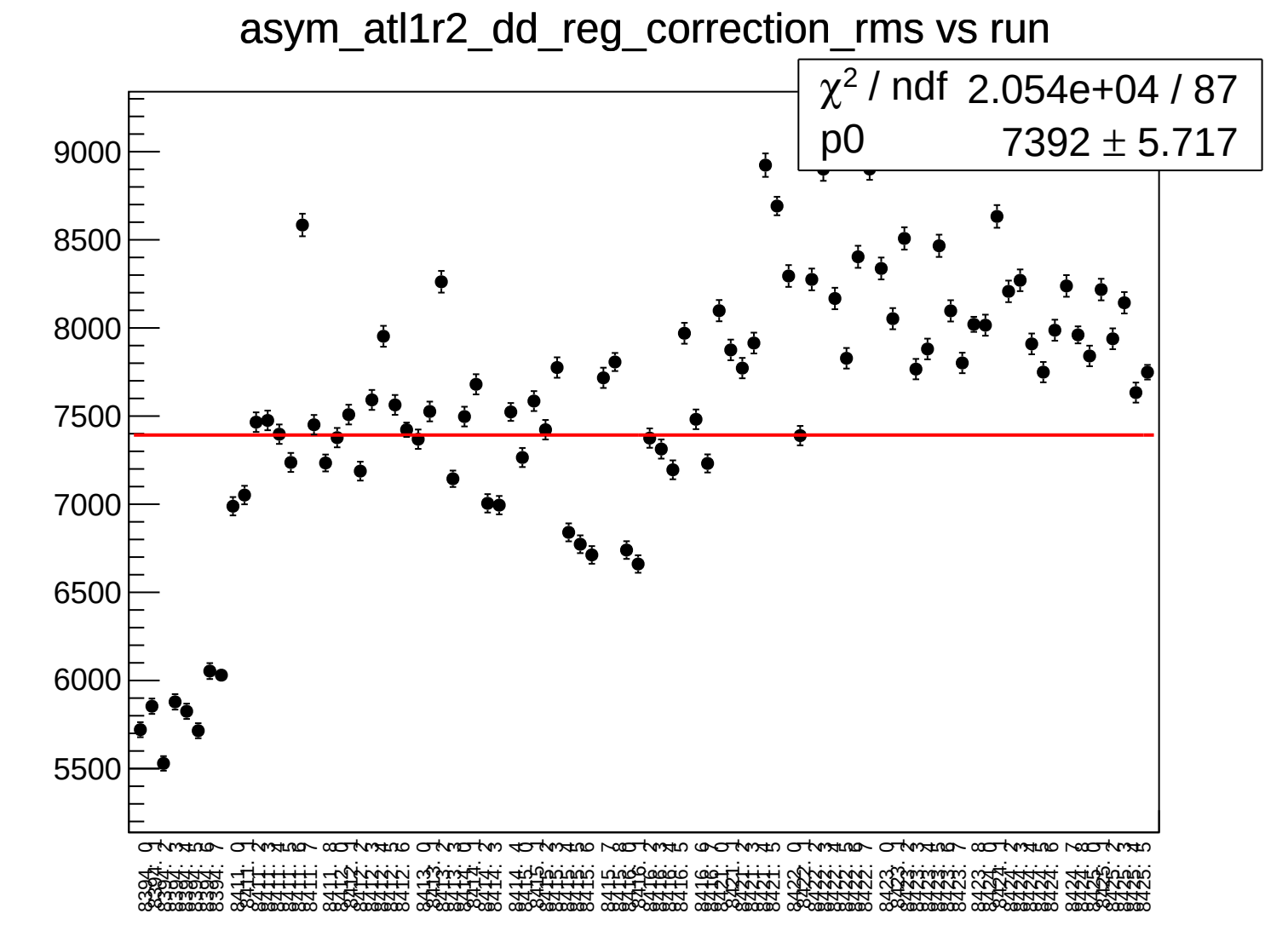

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 76.3 / 87
p0 831.1 ± 1984
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 6.64
Std Dev 55.97
2
1
0
−1
−2

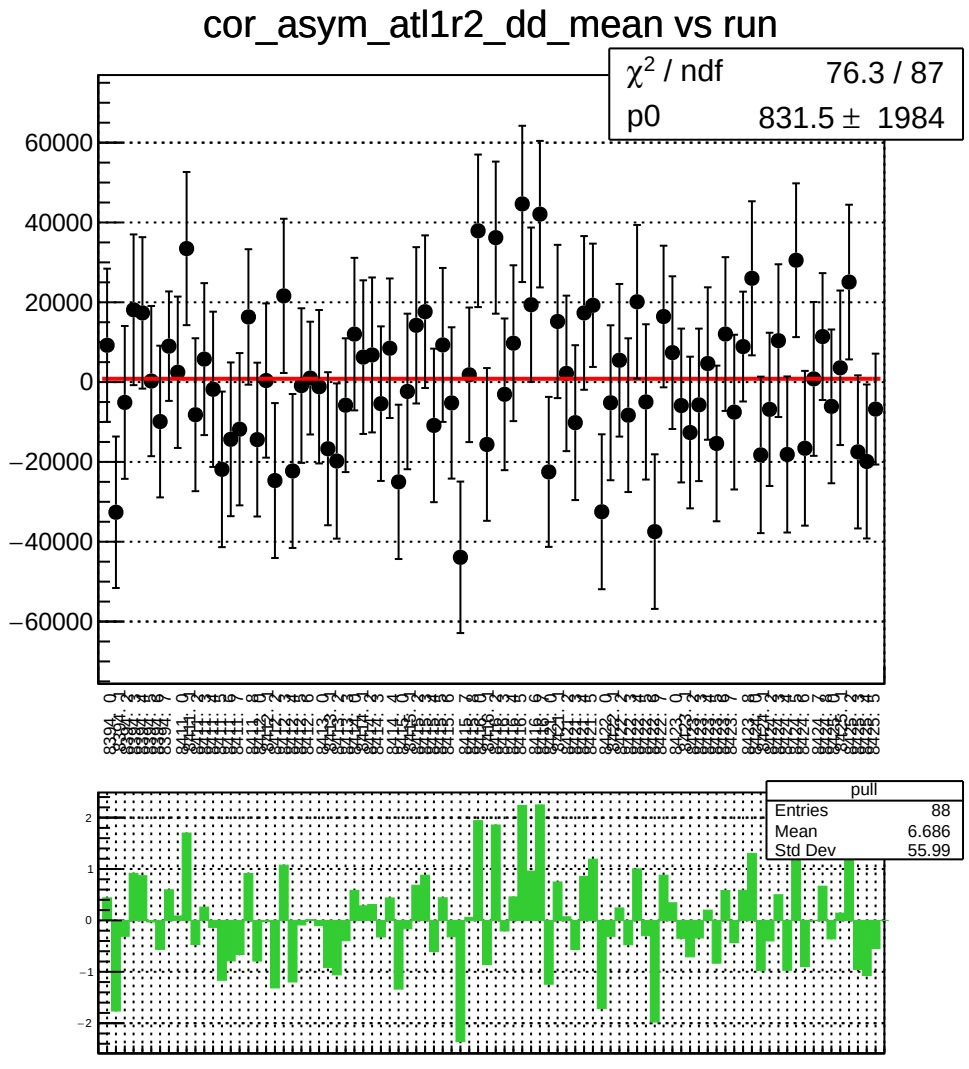

pull1D
Entries 88
Mean −0.01157
Std Dev 0.9311
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

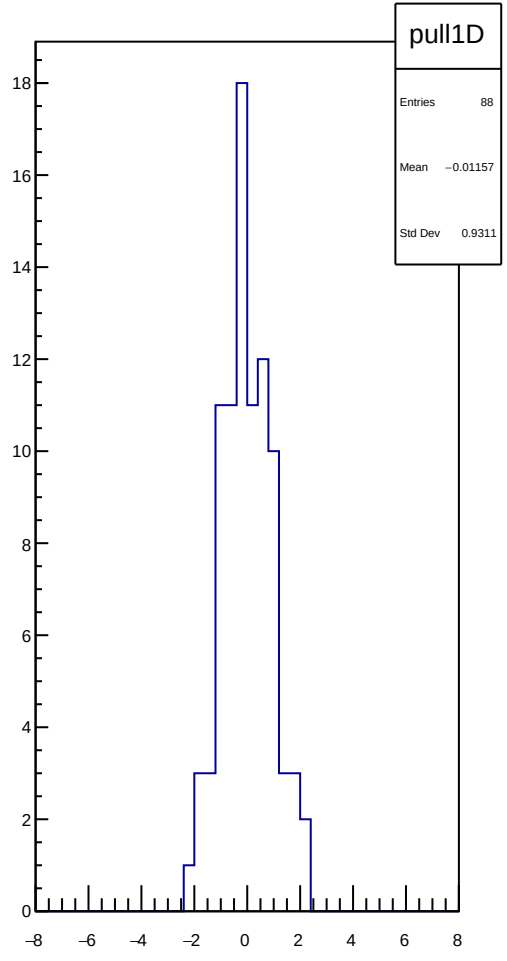

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 142.6 / 87
p0 1825 ± 1.403
1880
1860
1840
1820
1800
1780
1760

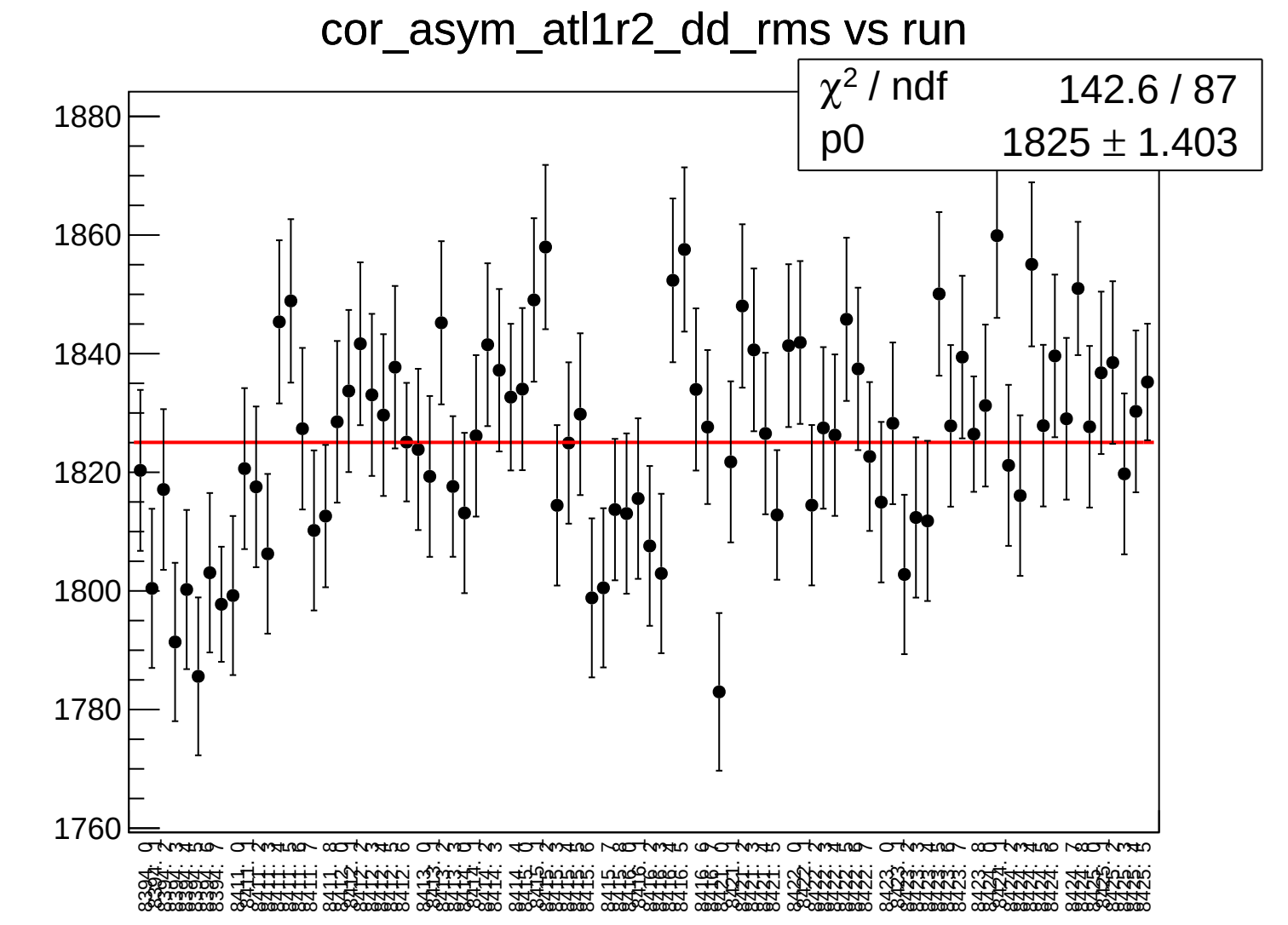

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 65.1 / 87
p0 −5504 ± 8084
200
100
0
−100
−200
−300
pull
Entries 88
Mean −65.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

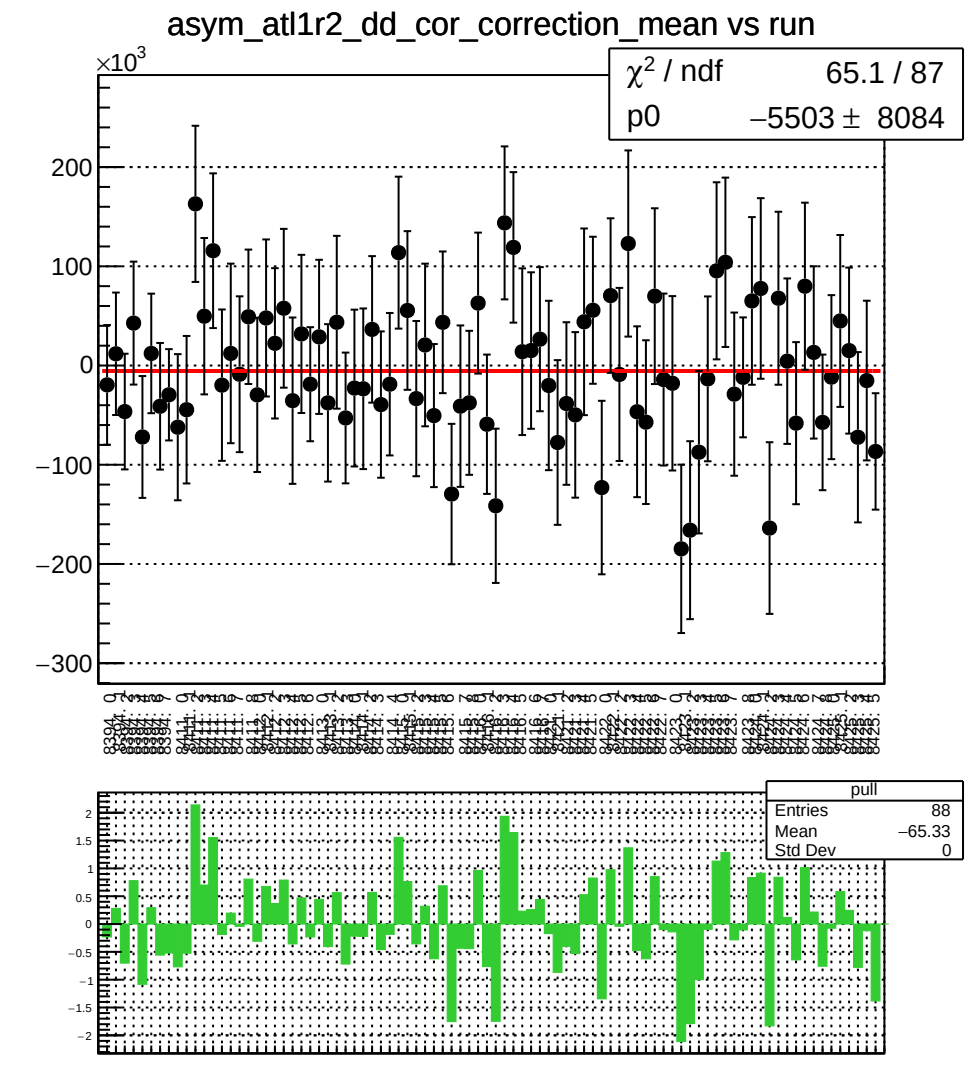

pull1D
Entries 88
Mean 0.01874
Std Dev 0.8599
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

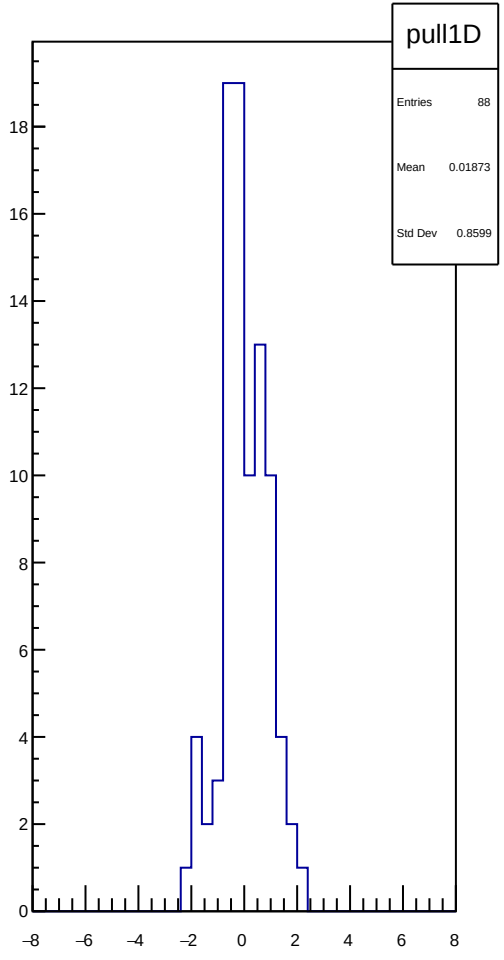

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 2.054e+04 / 87
p0 7392 ± 5.717
9000
8500
8000
7500
7000
6500
6000
5500

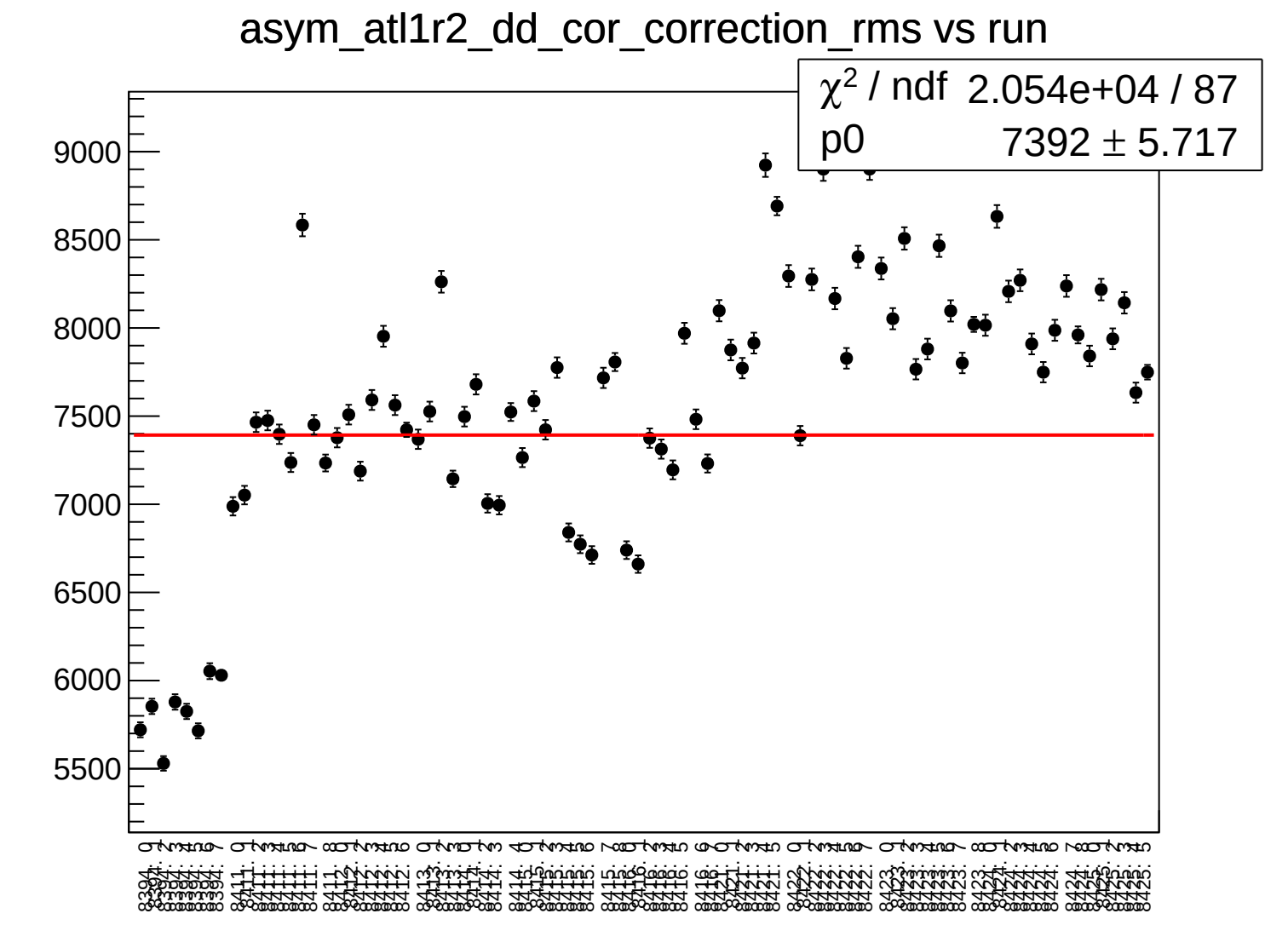

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 76.3 / 87
p0 831.5 ± 1984
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 6.686
Std Dev 55.99
2
1
0
−1
−2

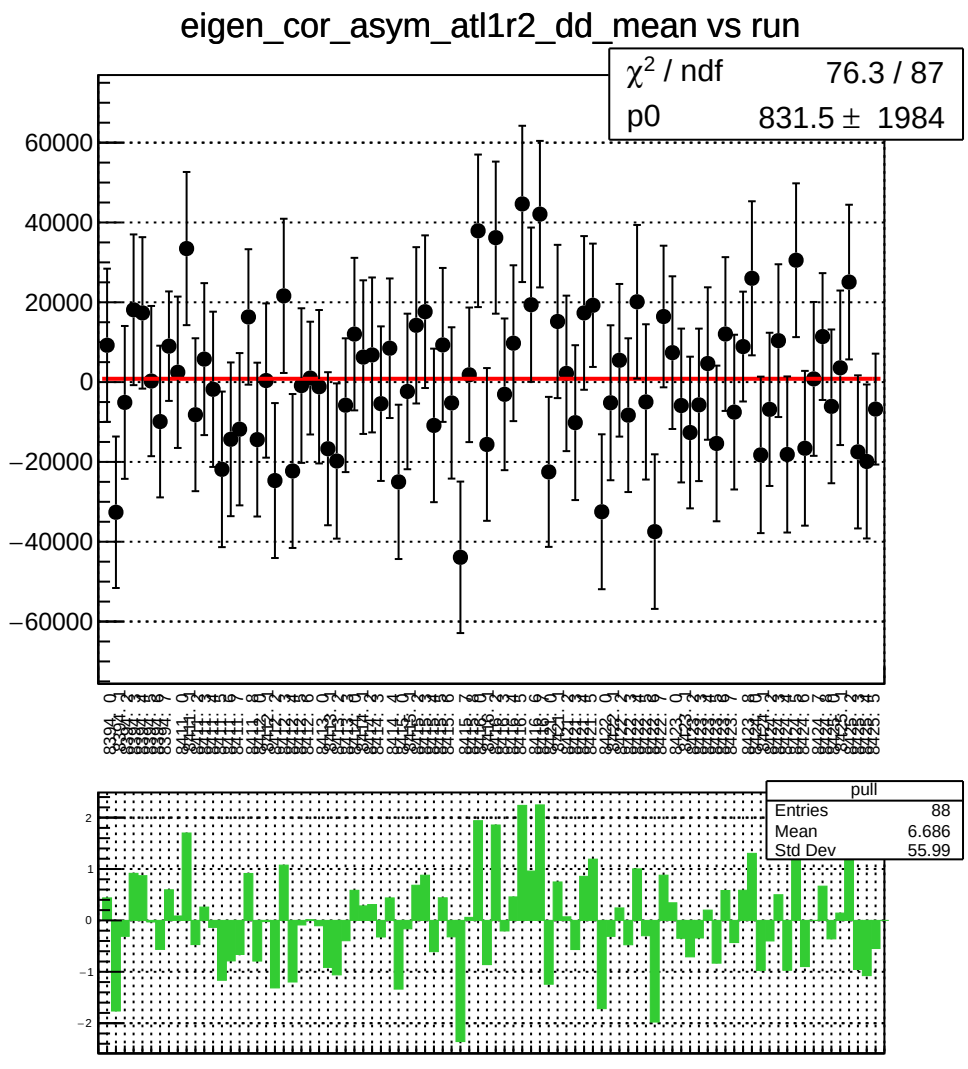

pull1D
Entries 88
Mean −0.01157
Std Dev 0.9311
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

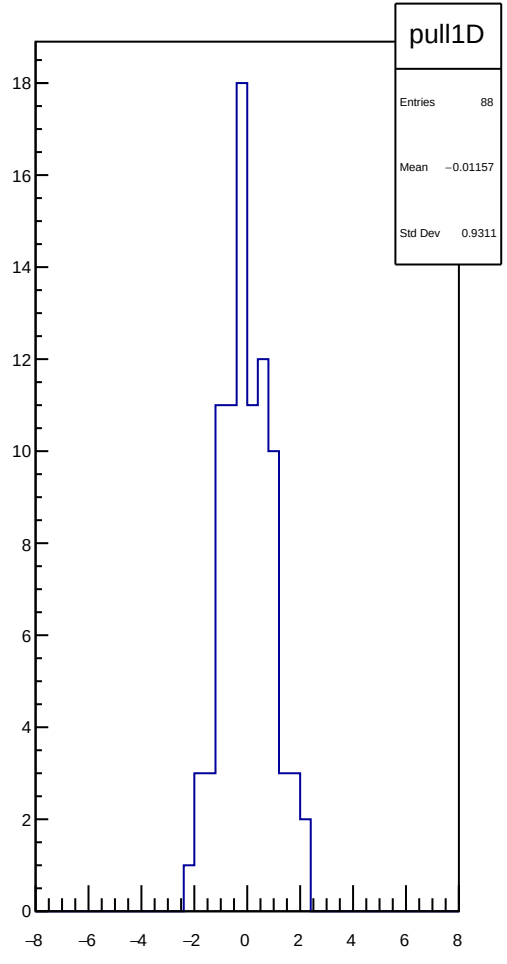

cor_asym_atl1r2_dd_rms vs run
χ^2 / ndf 142.6 / 87
p0 1825 ± 1.403
1880
1860
1840
1820
1800
1780
1760

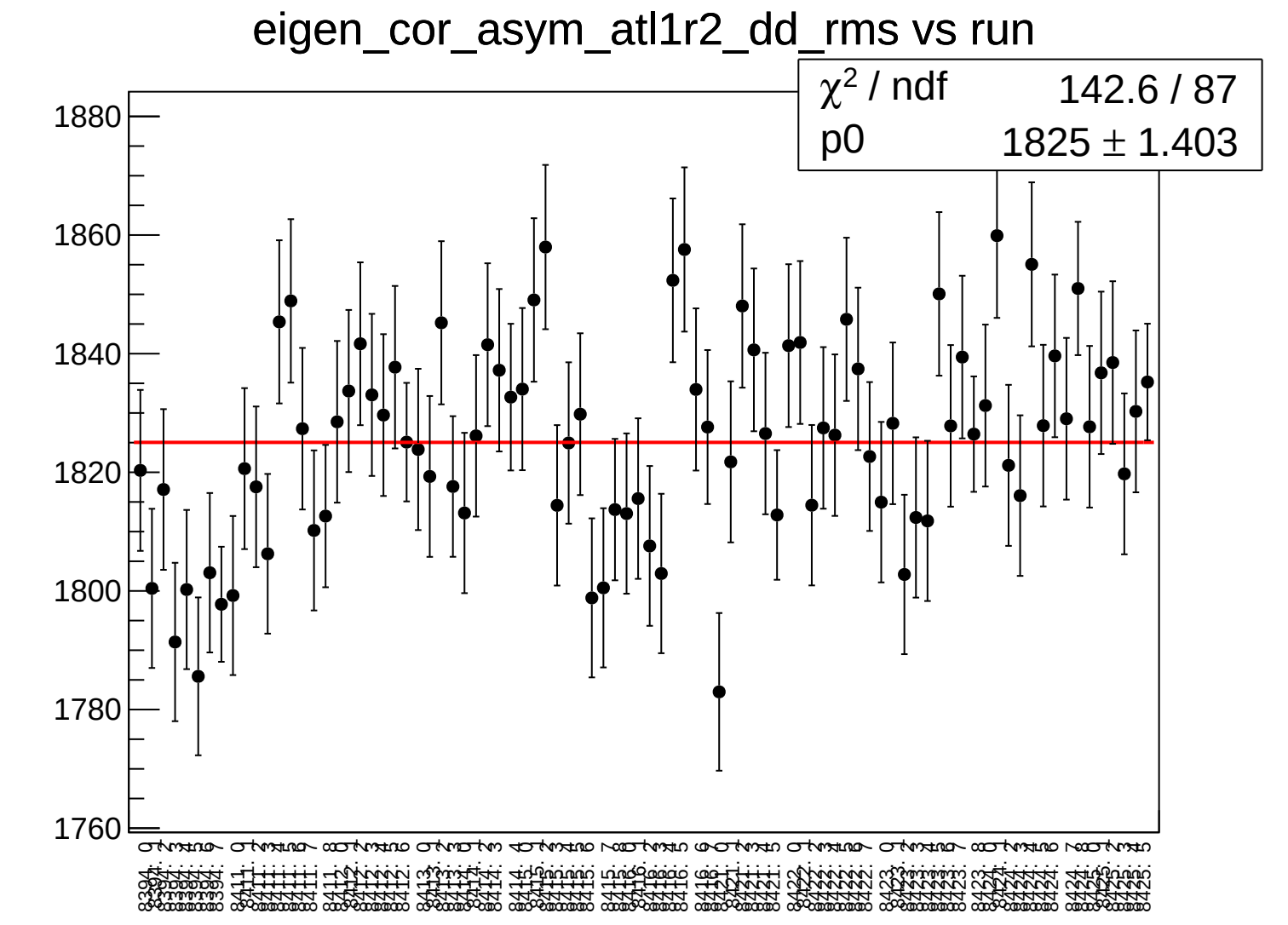

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 65.1 / 87
p0 −5503 ± 8084
200
100
0
−100
−200
−300
pull
Entries 88
Mean −65.33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

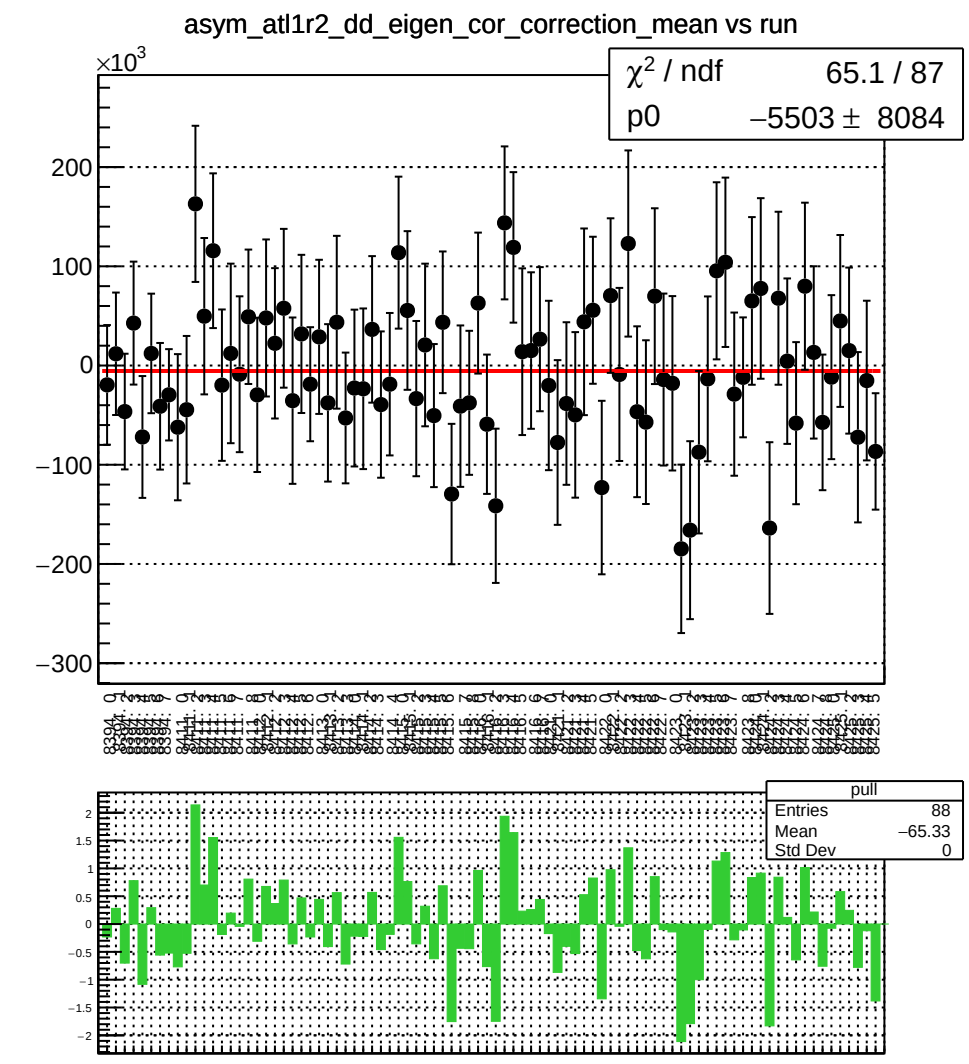

pull1D
Entries 88
Mean 0.01873
Std Dev 0.8599
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

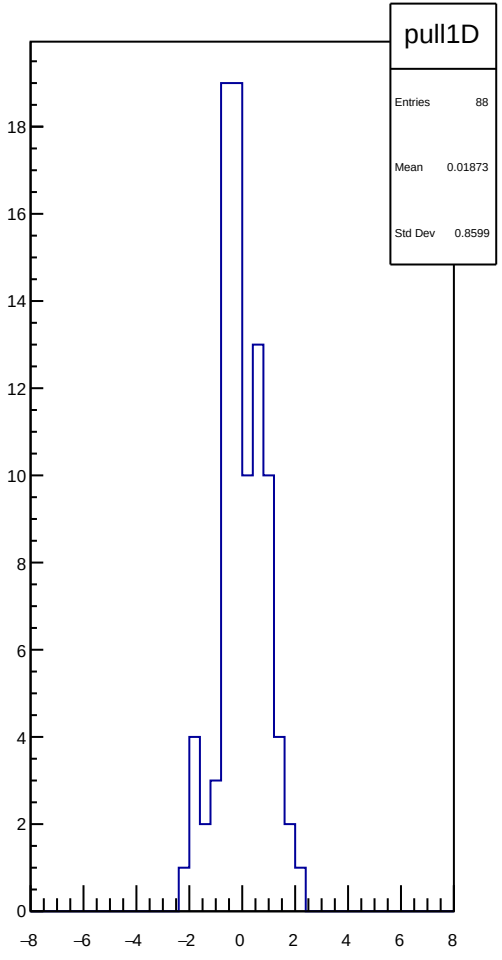

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 2.054e+04 / 87
p0 7392 ± 5.717
9000
8500
8000
7500
7000
6500
6000
5500

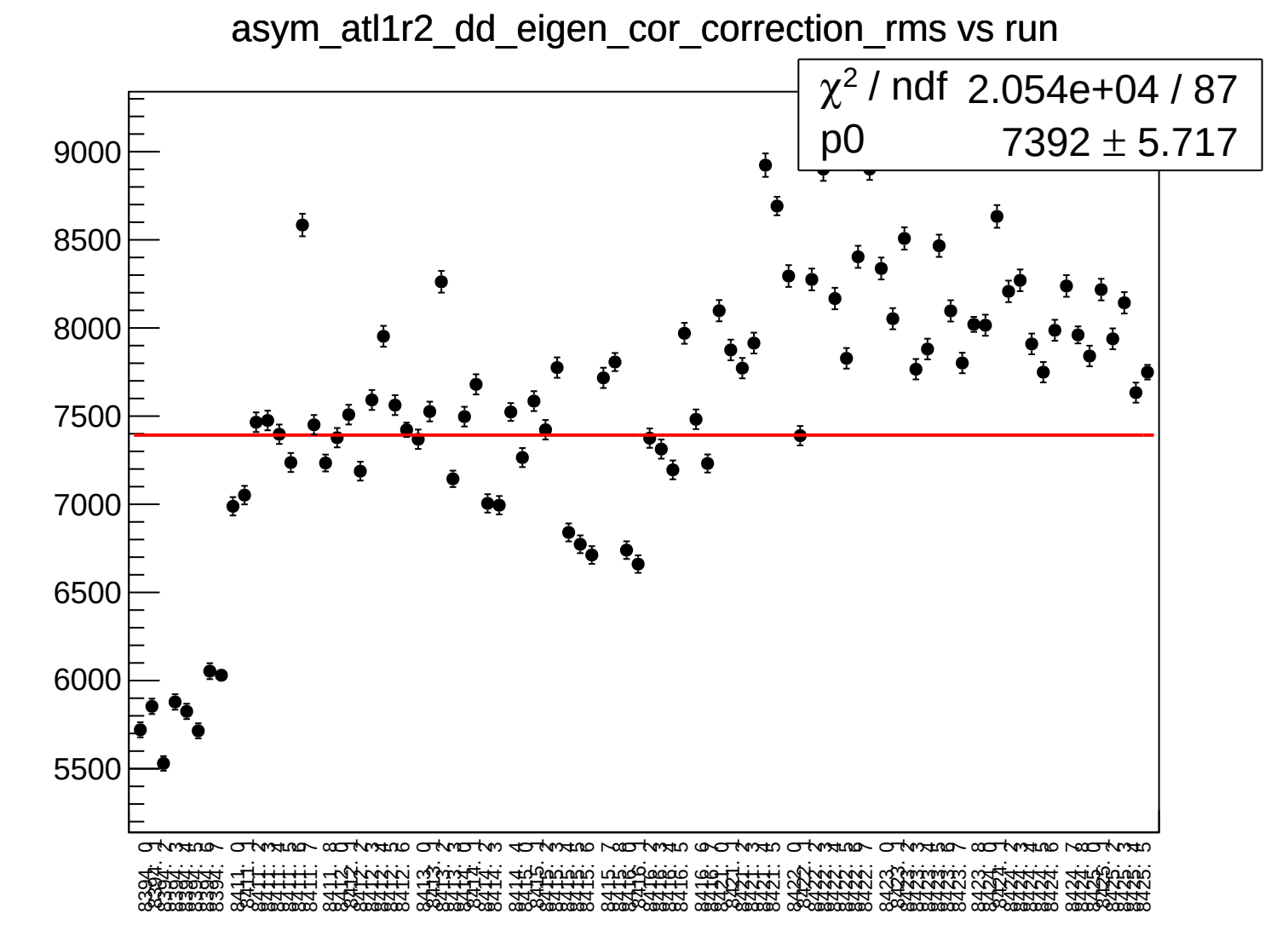

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 76.3 / 87
p0 831.5 ± 1984
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 6.686
Std Dev 55.99
2
1
0
−1
−2

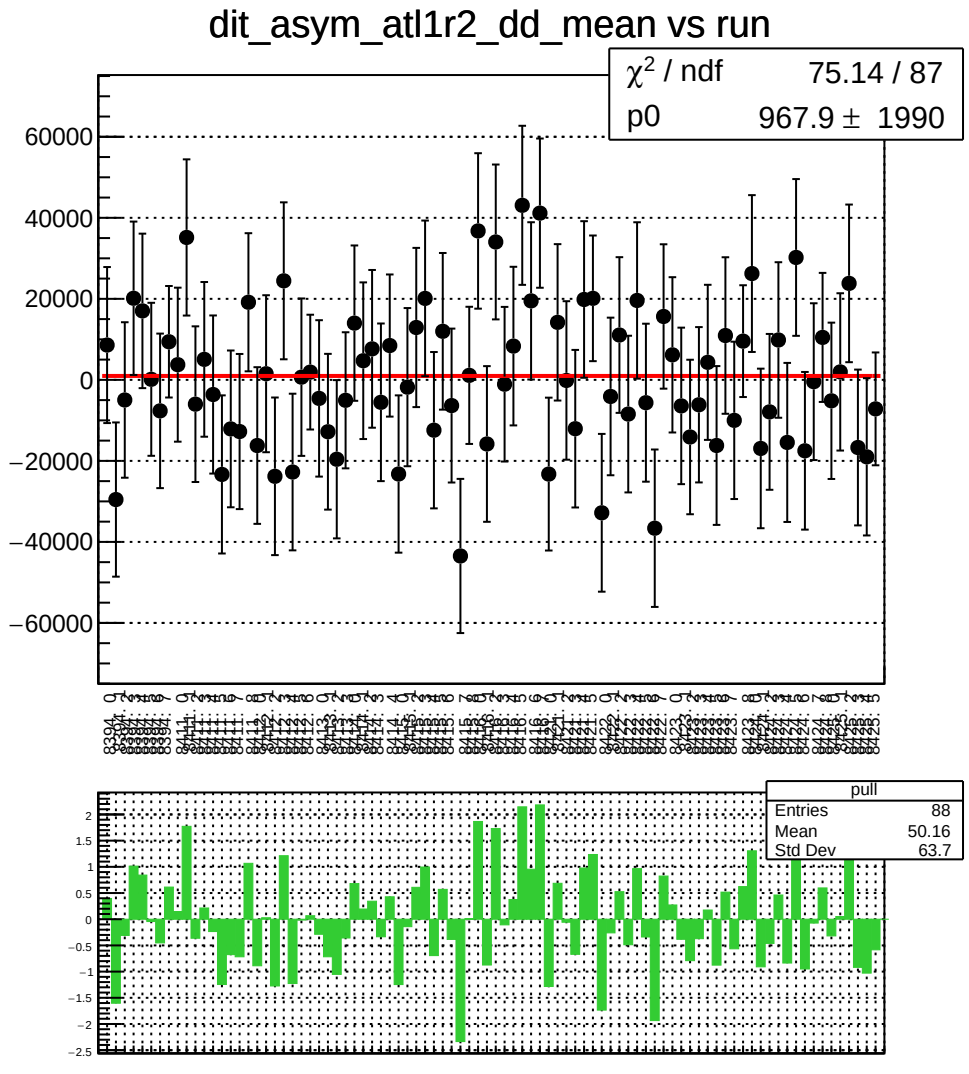

pull1D
Entries 88
Mean −0.01157
Std Dev 0.9311
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

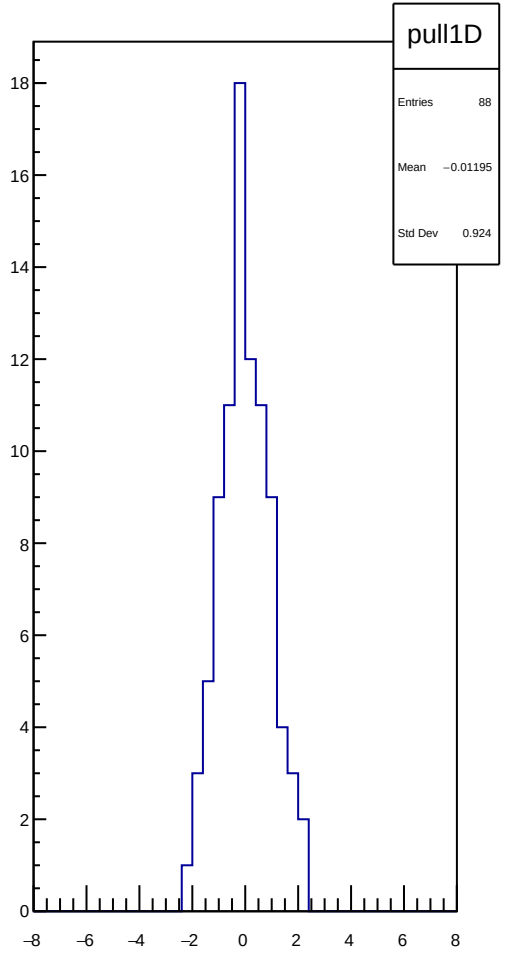

eigen_cor_asym_atl1r2_dd_rms vs run
χ^2 / ndf 142.6 / 87
p0 1825 ± 1.403
1880
1860
1840
1820
1800
1780
1760

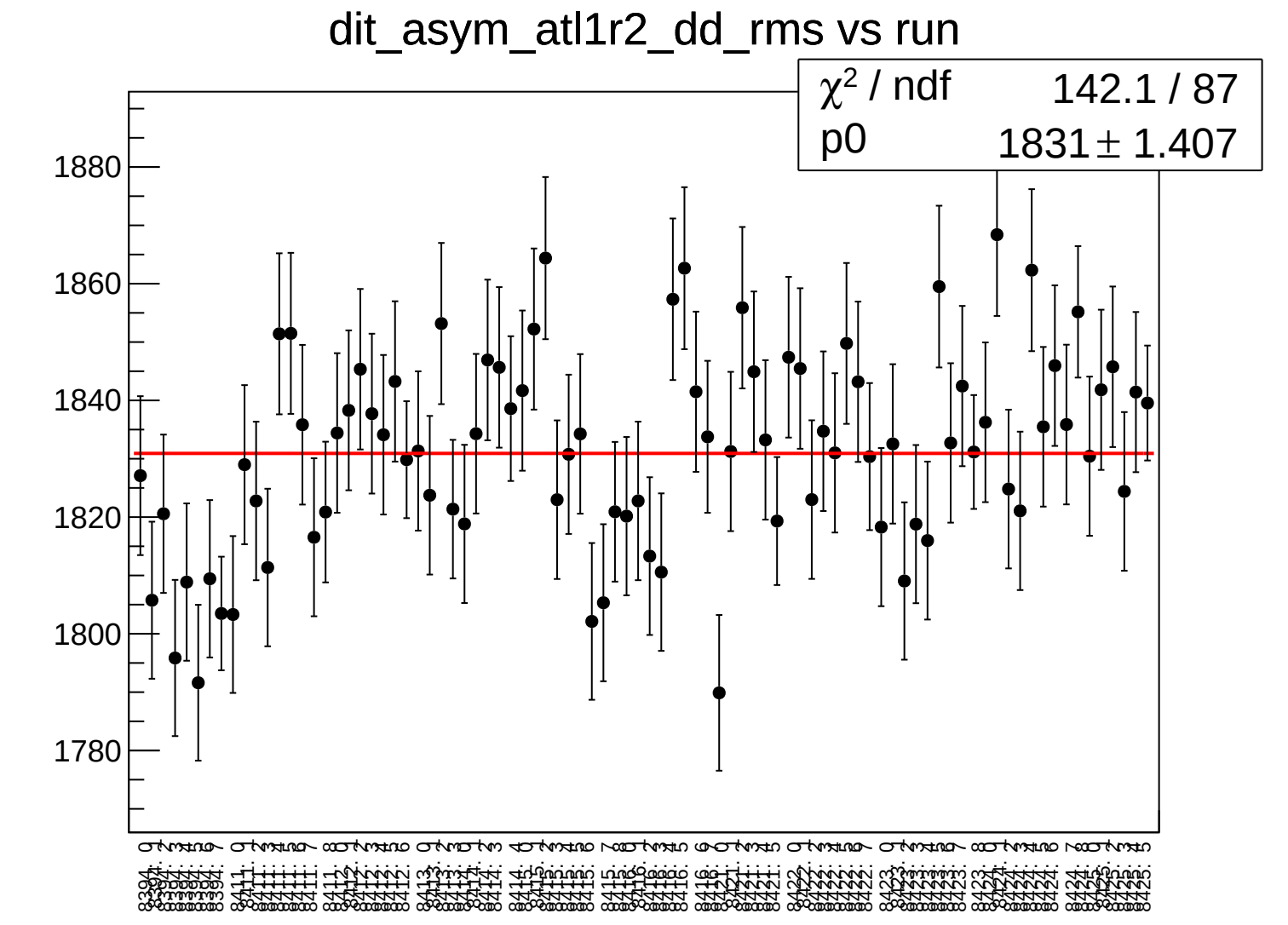

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 65.1 / 87
p0 −5503 ± 8084
200
100
0
−100
−200
−300
pull
Entries 88
Mean −65.33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

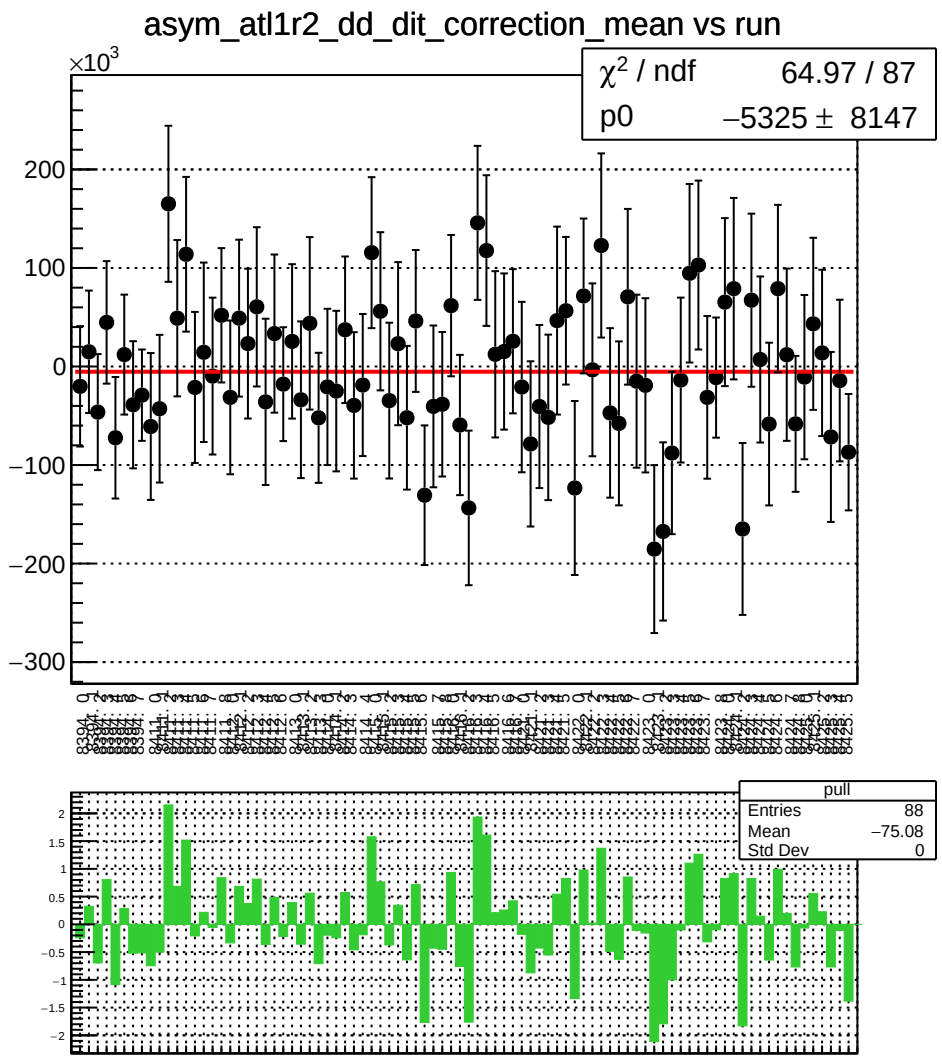

pull1D
Entries 88
Mean 0.01873
Std Dev 0.8599
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

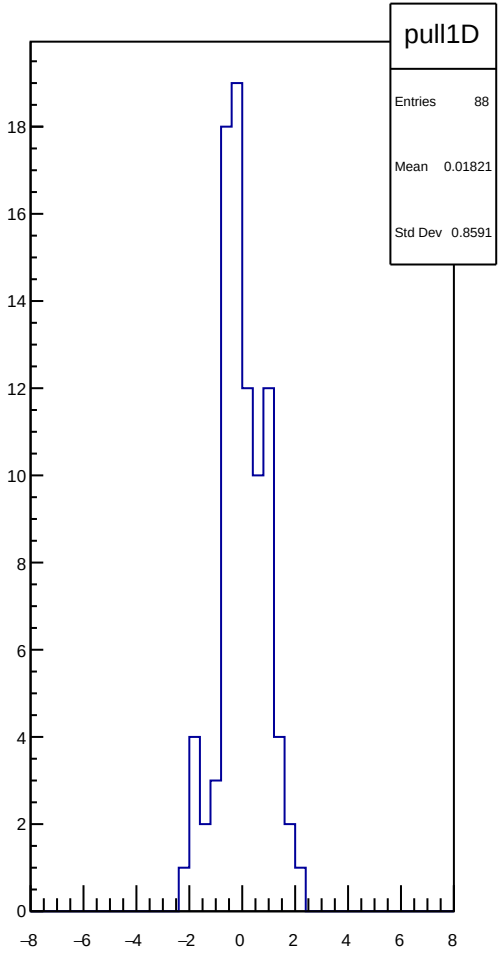

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.054e+04 / 87
p0 7392 ± 5.717
9000
8500
8000
7500
7000
6500
6000
5500

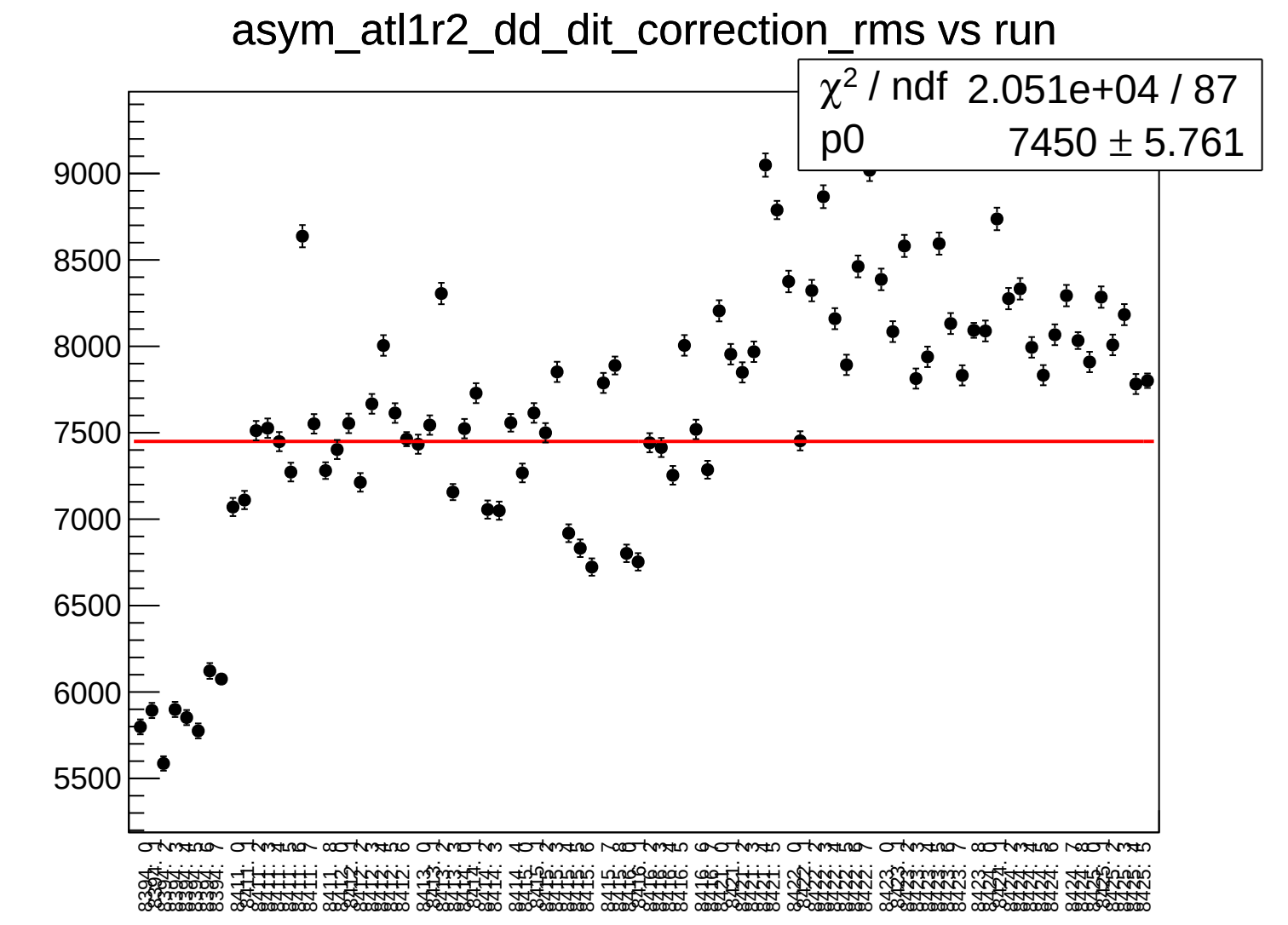

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 75.14 / 87
p0 967.9 ± 1990
pull
Entries 88
Mean 50.16
Std Dev 63.7

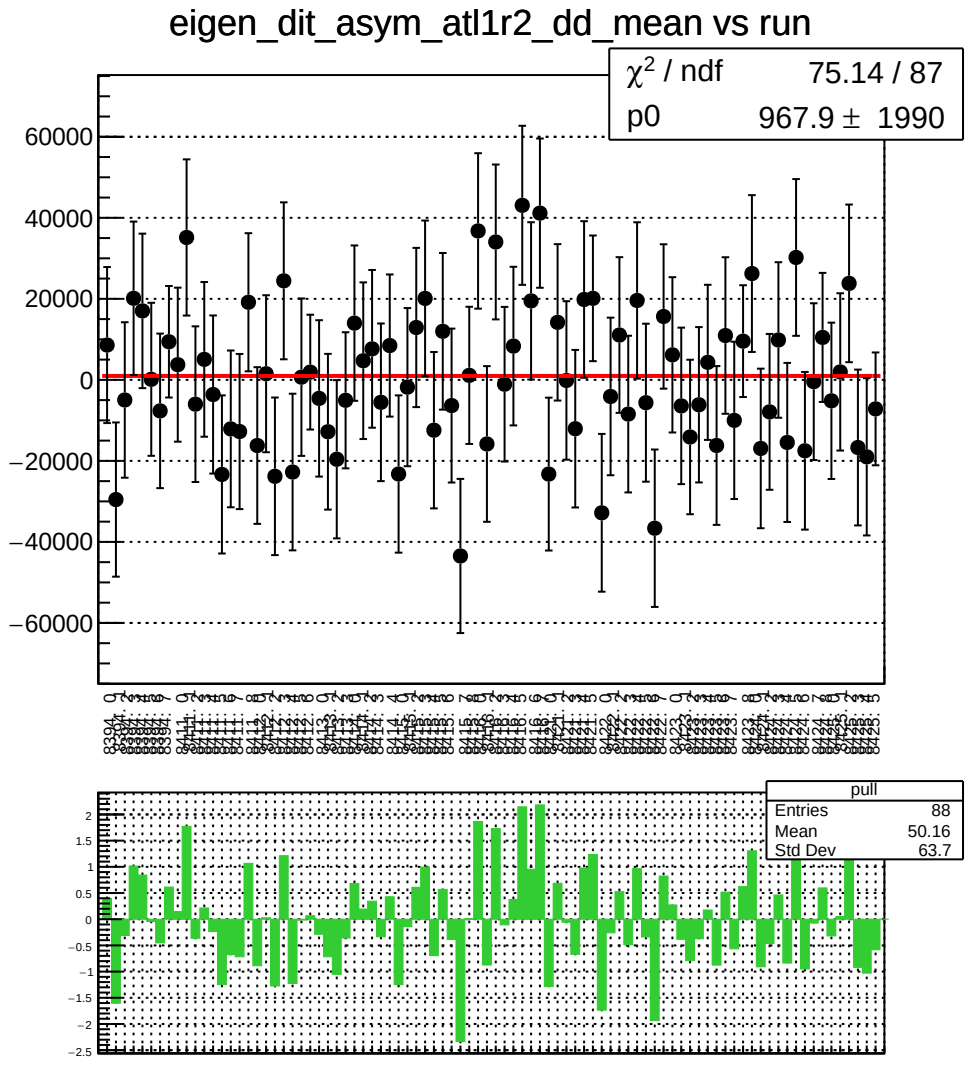

pull1D
Entries 88
Mean −0.01195
Std Dev 0.924

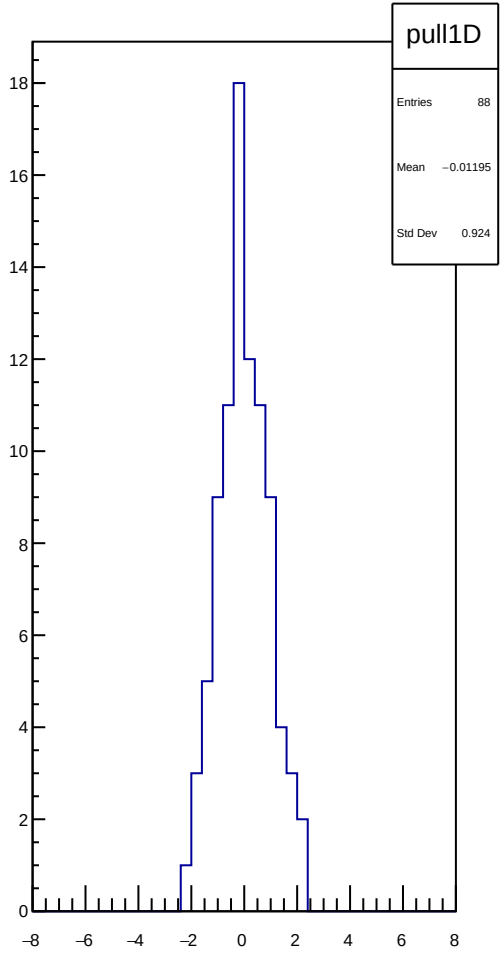

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 142.1 / 87
p0 1831 ± 1.407
1880
1860
1840
1820
1800
1780

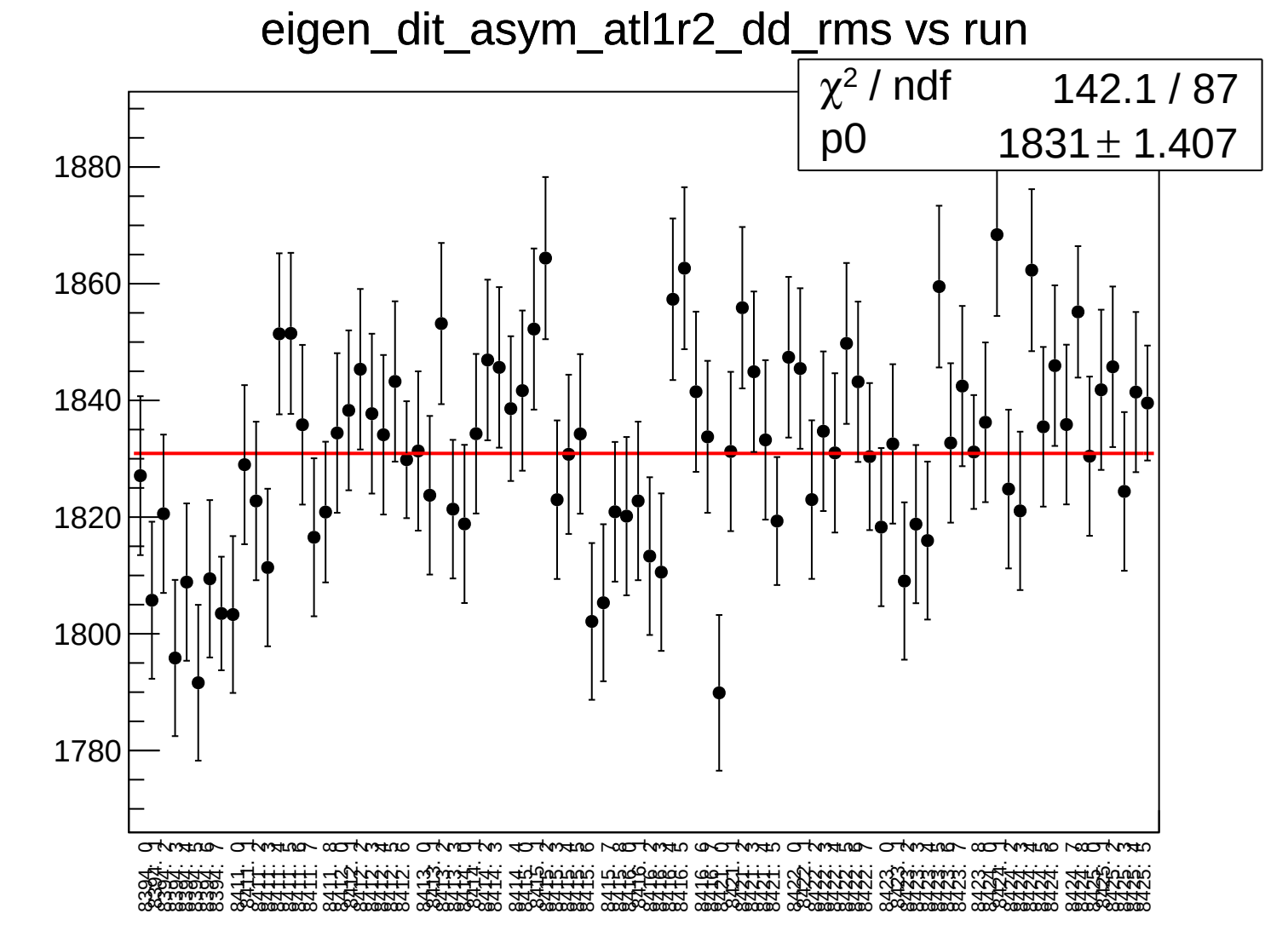

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 64.97 / 87
p0 −5325 ± 8147
200
100
0
−100
−200
−300
pull
Entries 88
Mean −75.08
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

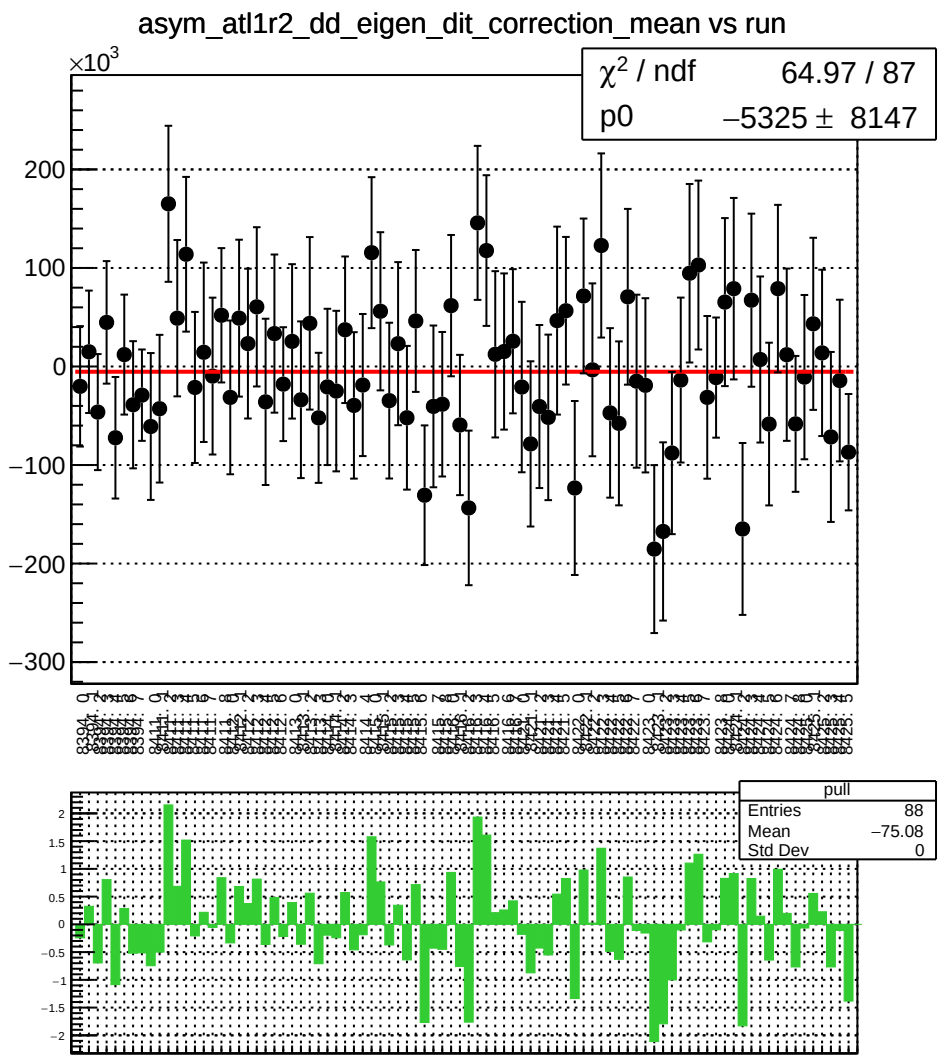

pull1D
Entries 88
Mean 0.01821
Std Dev 0.8591
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

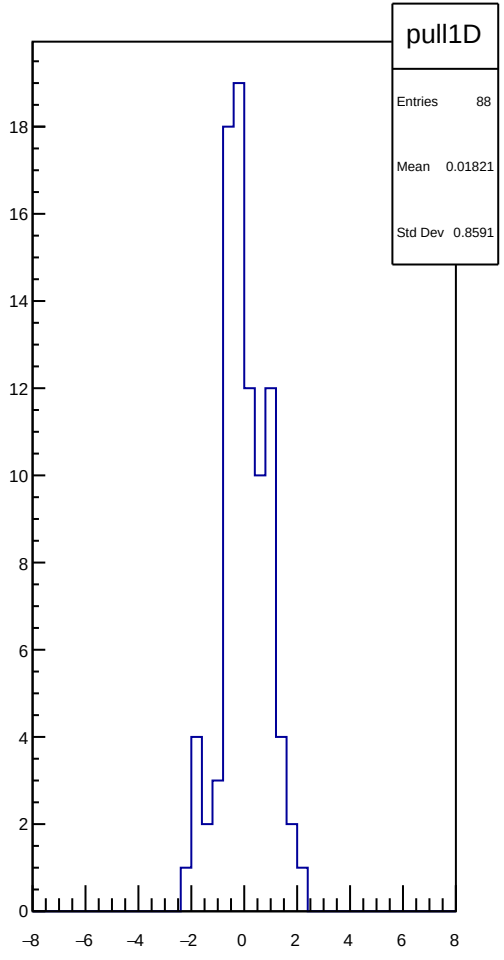

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 2.051e+04 / 87
p0 7450 ± 5.761
9000
8500
8000
7500
7000
6500
6000
5500

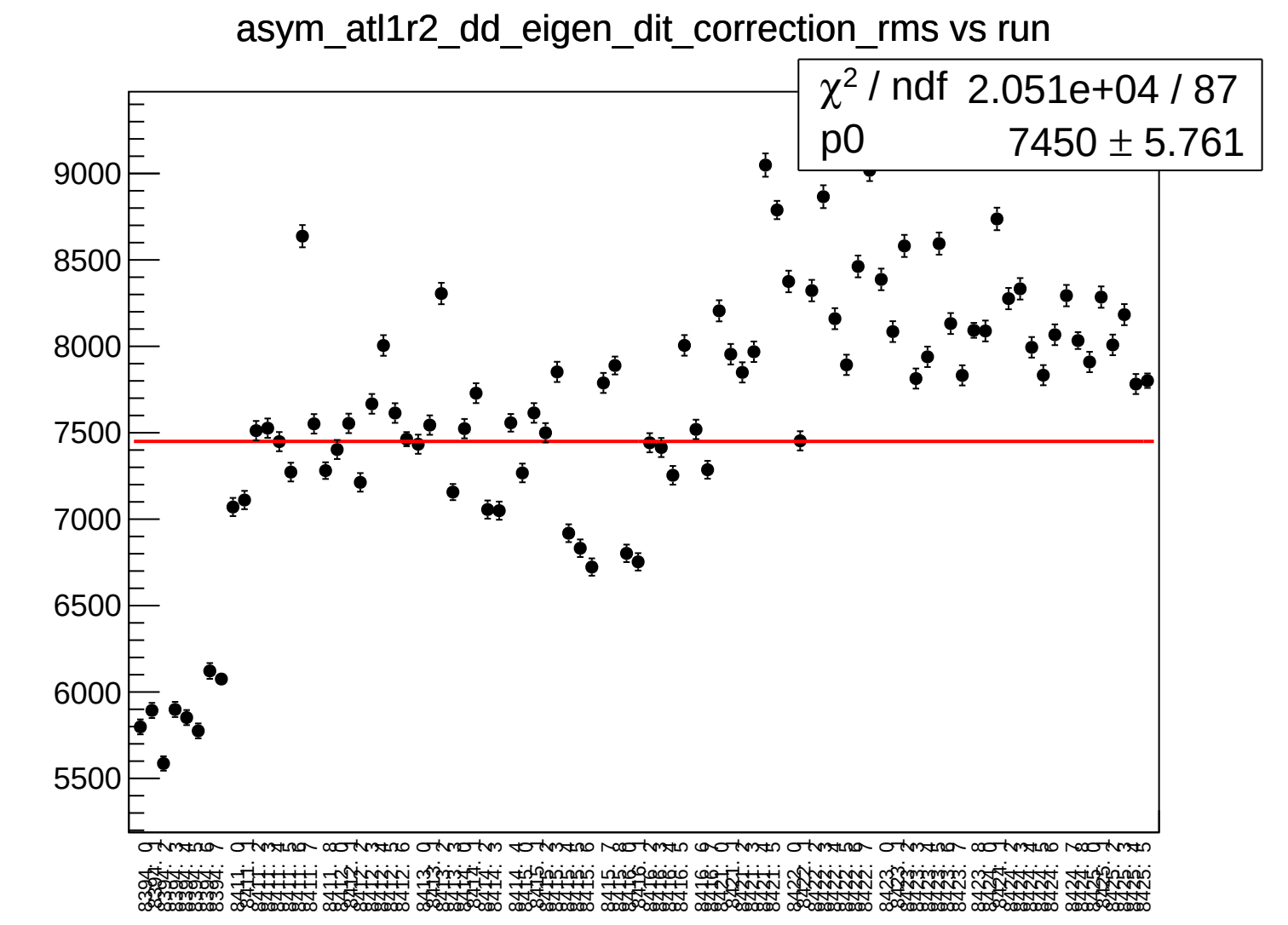

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 75.14 / 87
p0 967.9 ± 1990
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 50.16
Std Dev 63.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

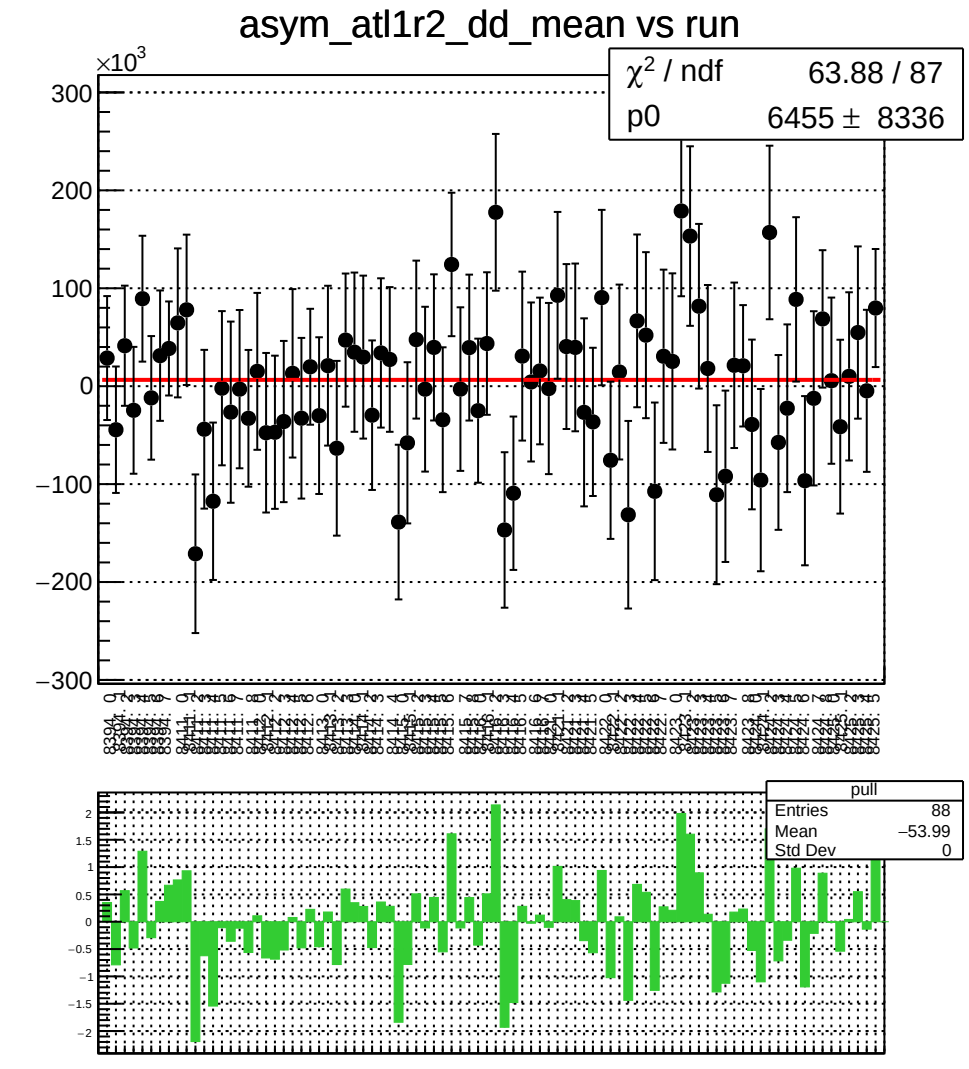

pull1D
Entries 88
Mean −0.01195
Std Dev 0.924
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

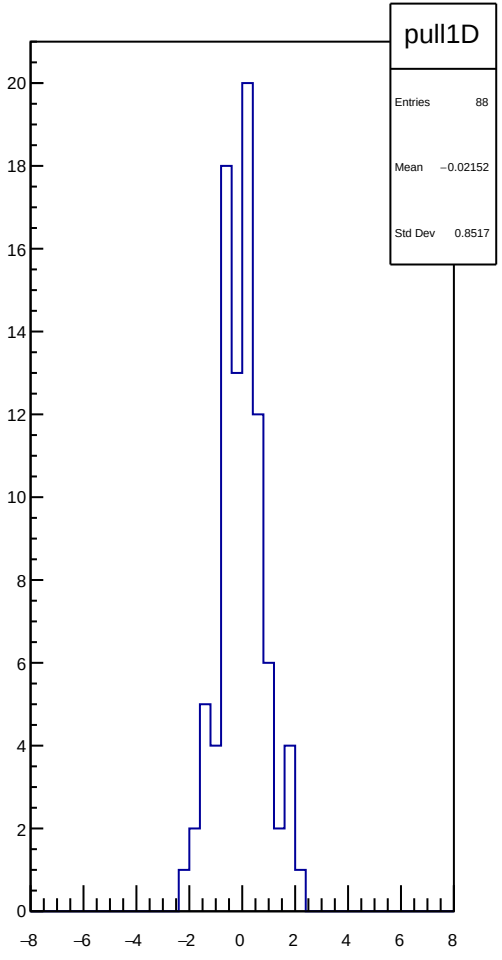

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 142.1 / 87
p0 1831 ± 1.407
1880
1860
1840
1820
1800
1780

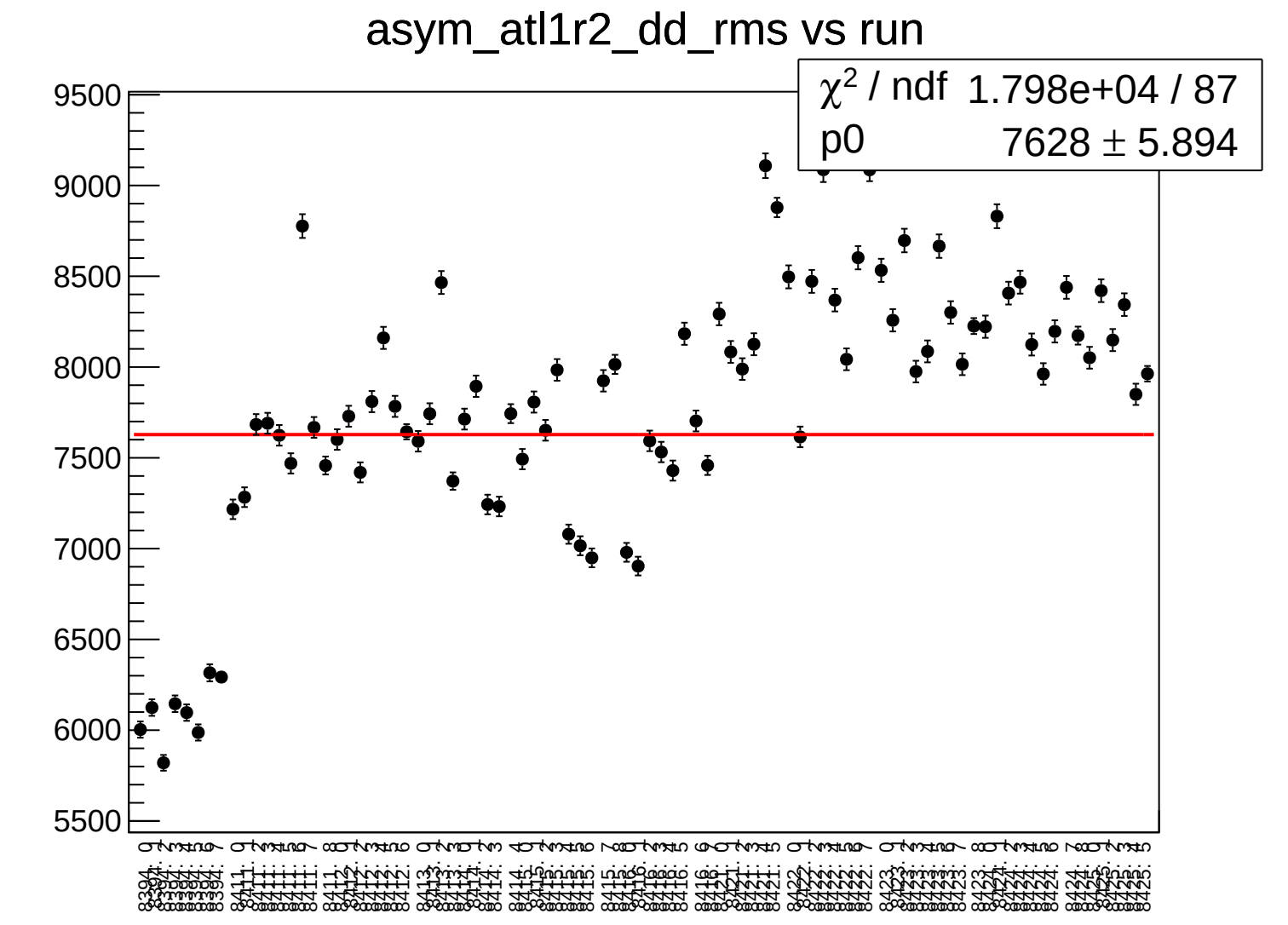

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 64.97 / 87
p0 −5325 ± 8147
200
100
0
−100
−200
−300
pull
Entries 88
Mean −75.08
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

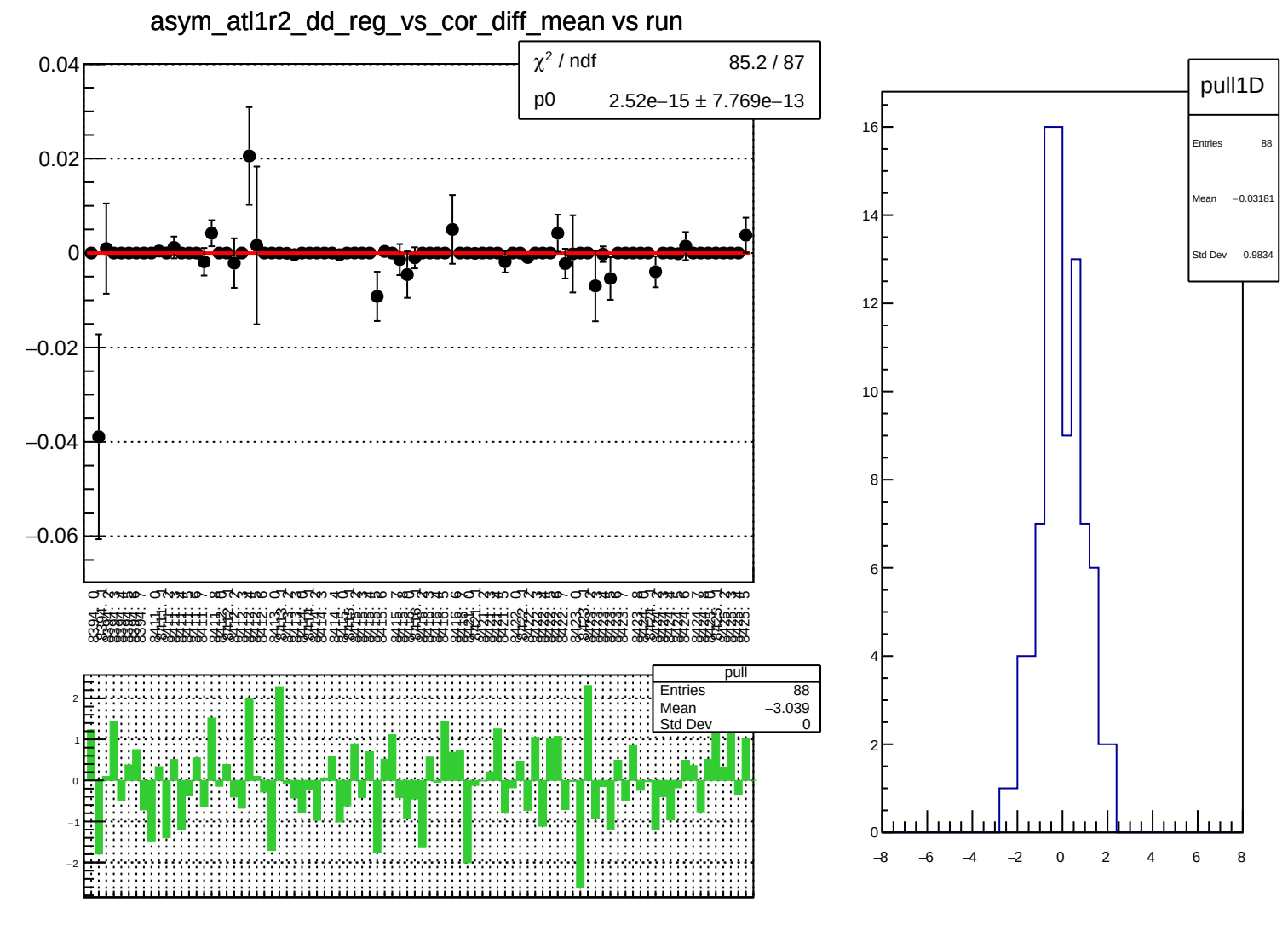

pull1D
Entries 88
Mean 0.01821
Std Dev 0.8591
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

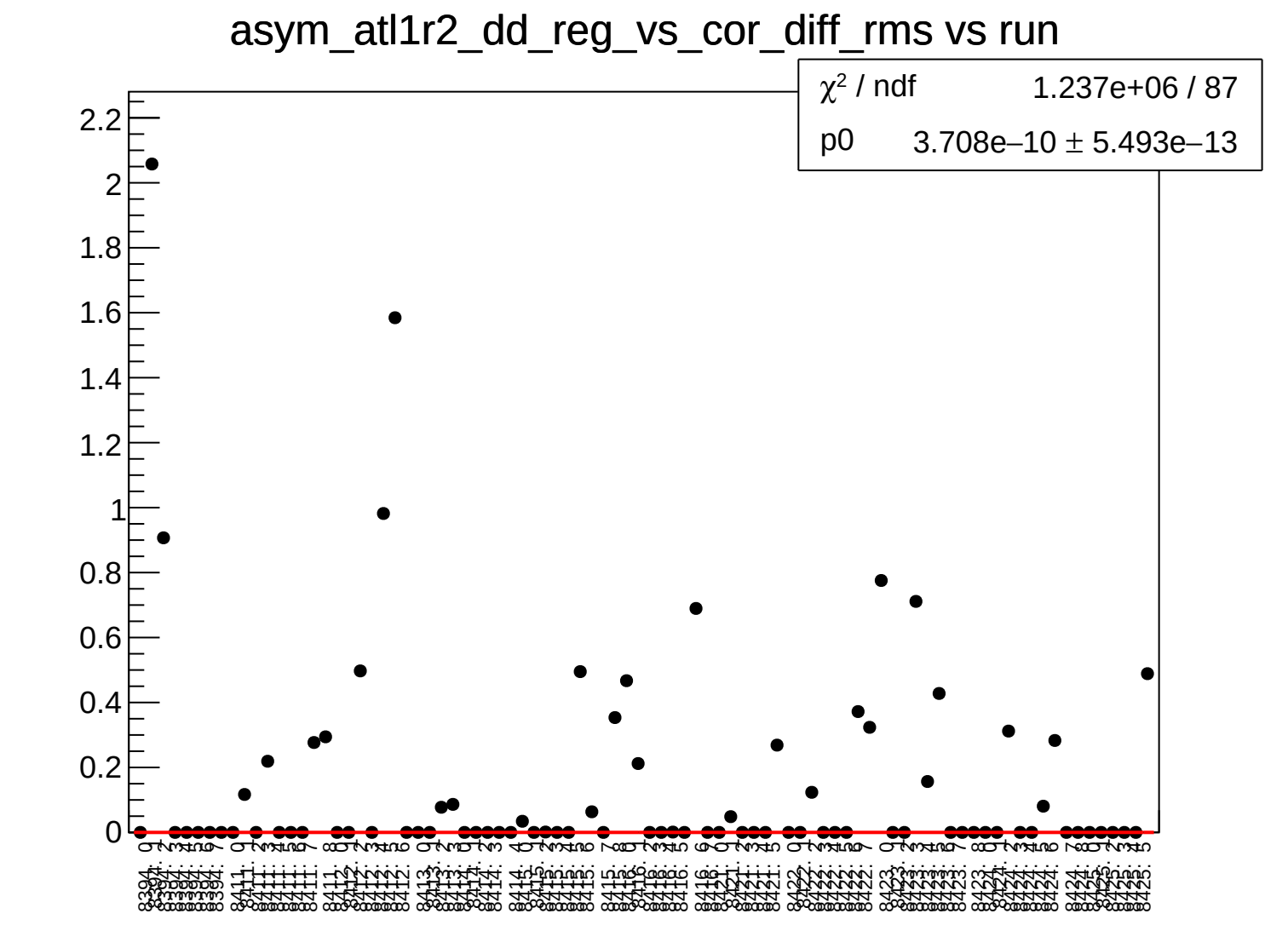

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.051e+04 / 87
p0 7450 ± 5.761
9000
8500
8000
7500
7000
6500
6000
5500

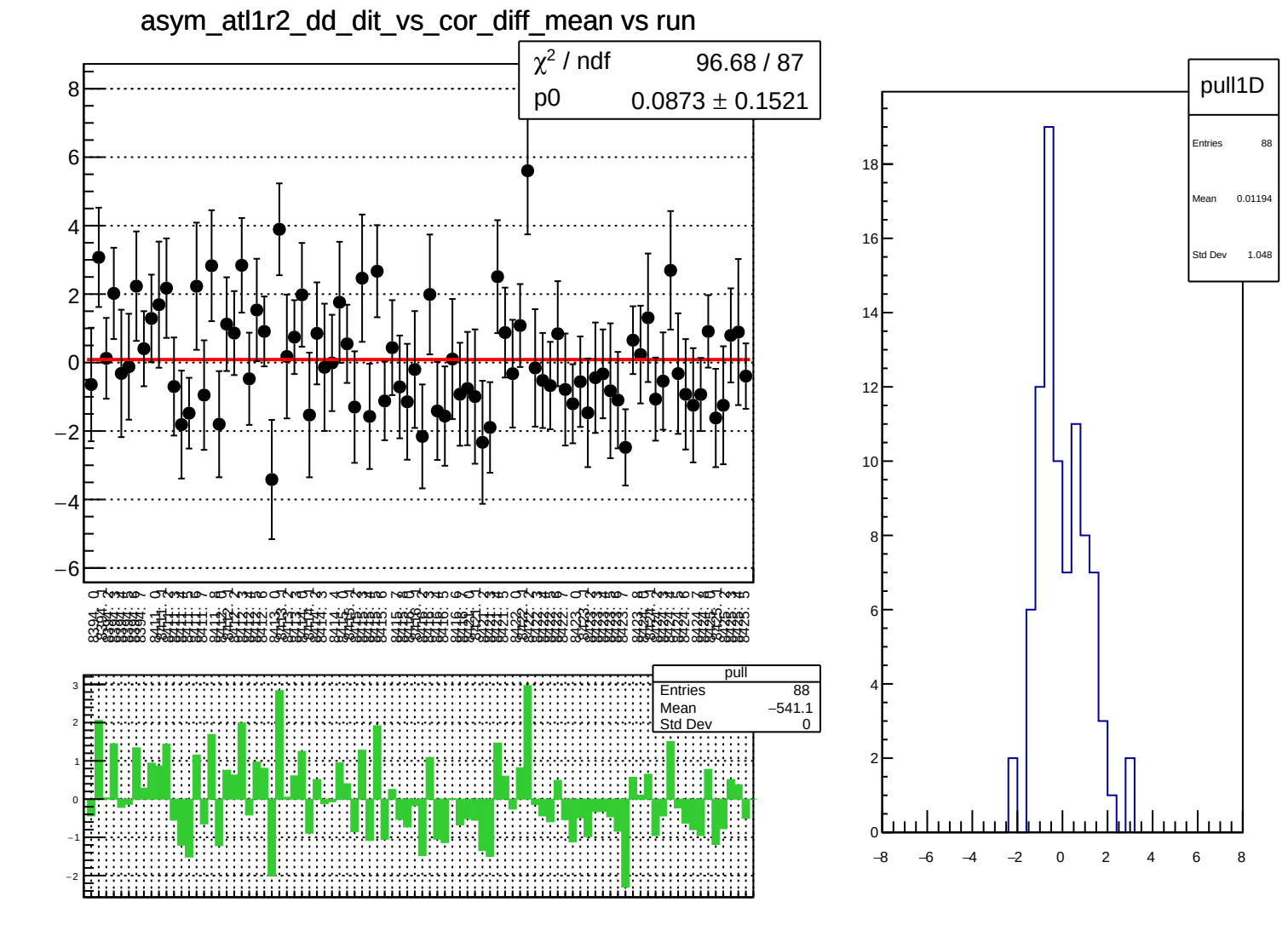

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 63.88 / 87
p0 6455 ± 8336
pull
Entries 88
Mean −53.99
Std Dev 0

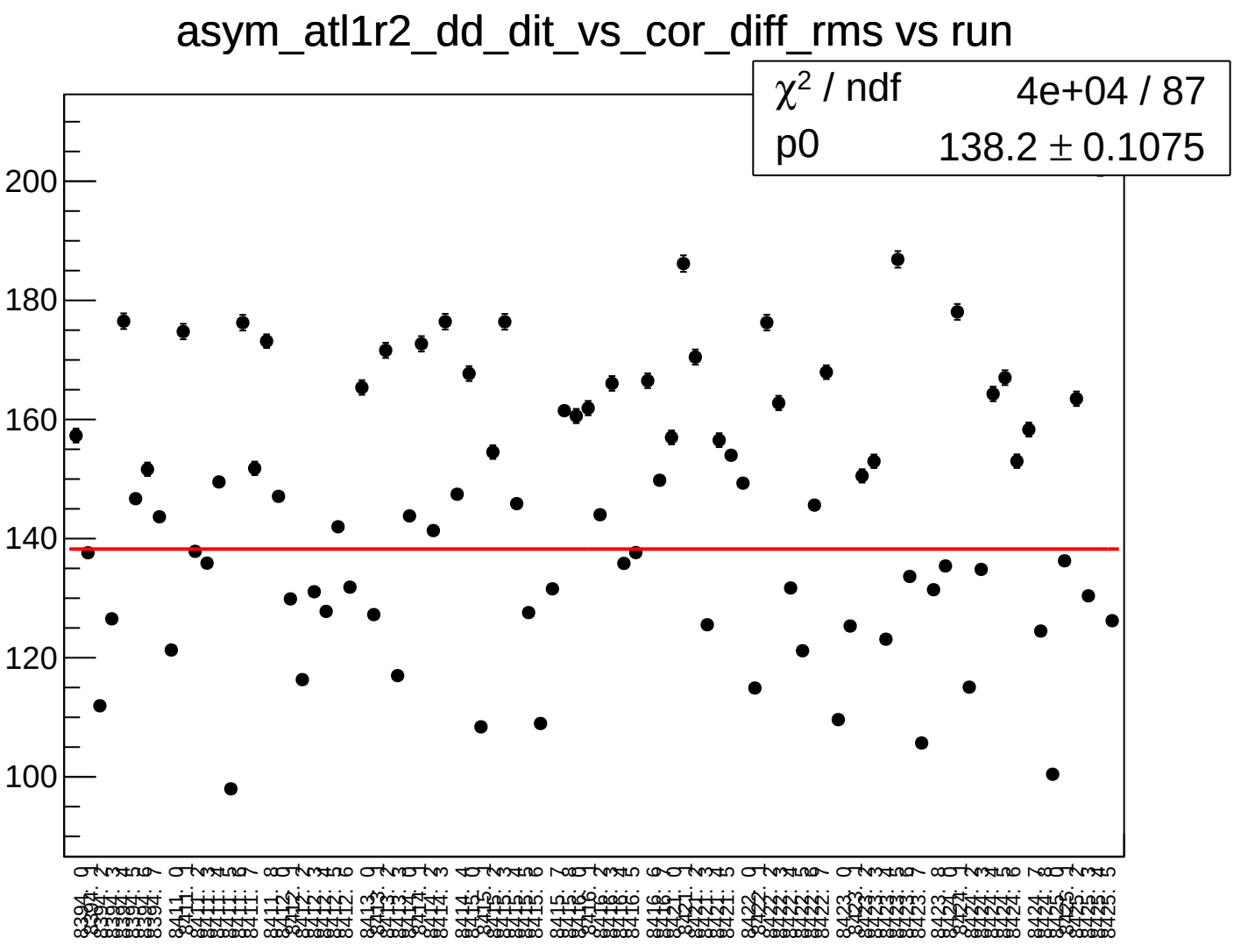

pull1D
Entries 88
Mean −0.02152
Std Dev 0.8517

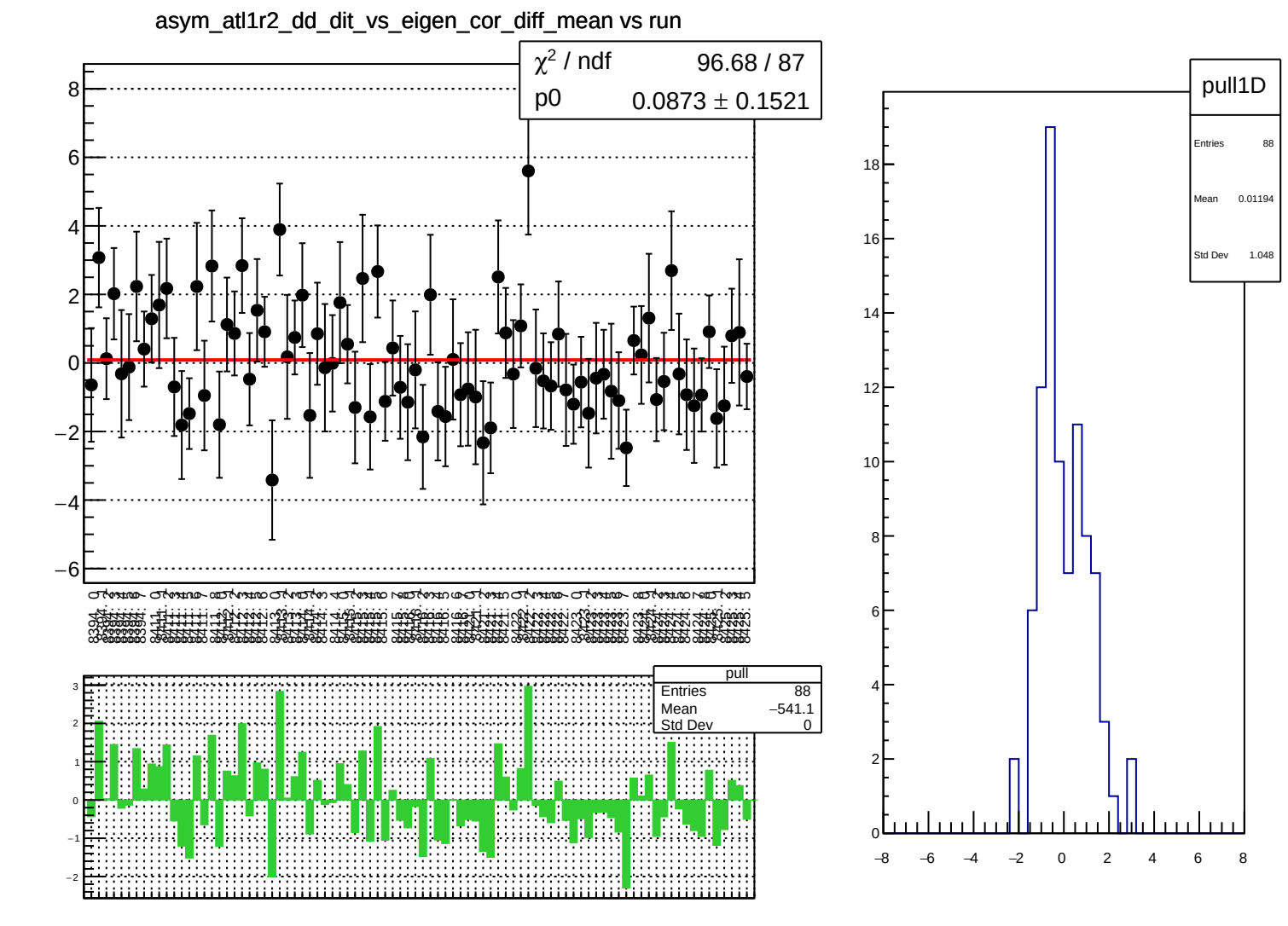

asym_atl1r2_dd_rms vs run
χ^2 / ndf 1.798e+04 / 87
p0 7628 ± 5.894
9500
9000
8500
8000
7500
7000
6500
6000
5500

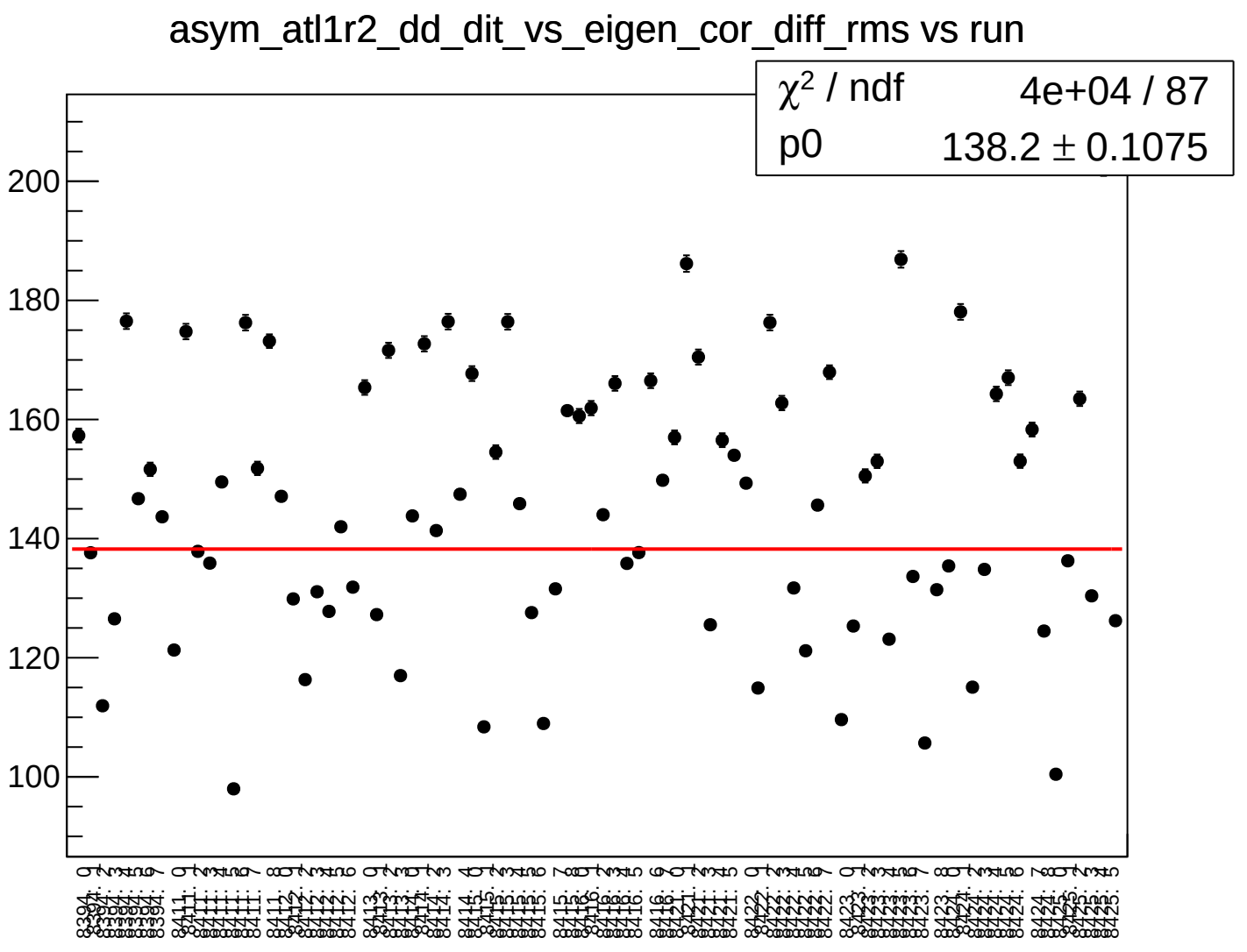

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 85.2 / 87
p0 2.52e−15 ± 7.769e−13
pull
Entries 88
Mean −3.039
Std Dev 0
pull1D
Entries 88
Mean −0.03181
Std Dev 0.9834

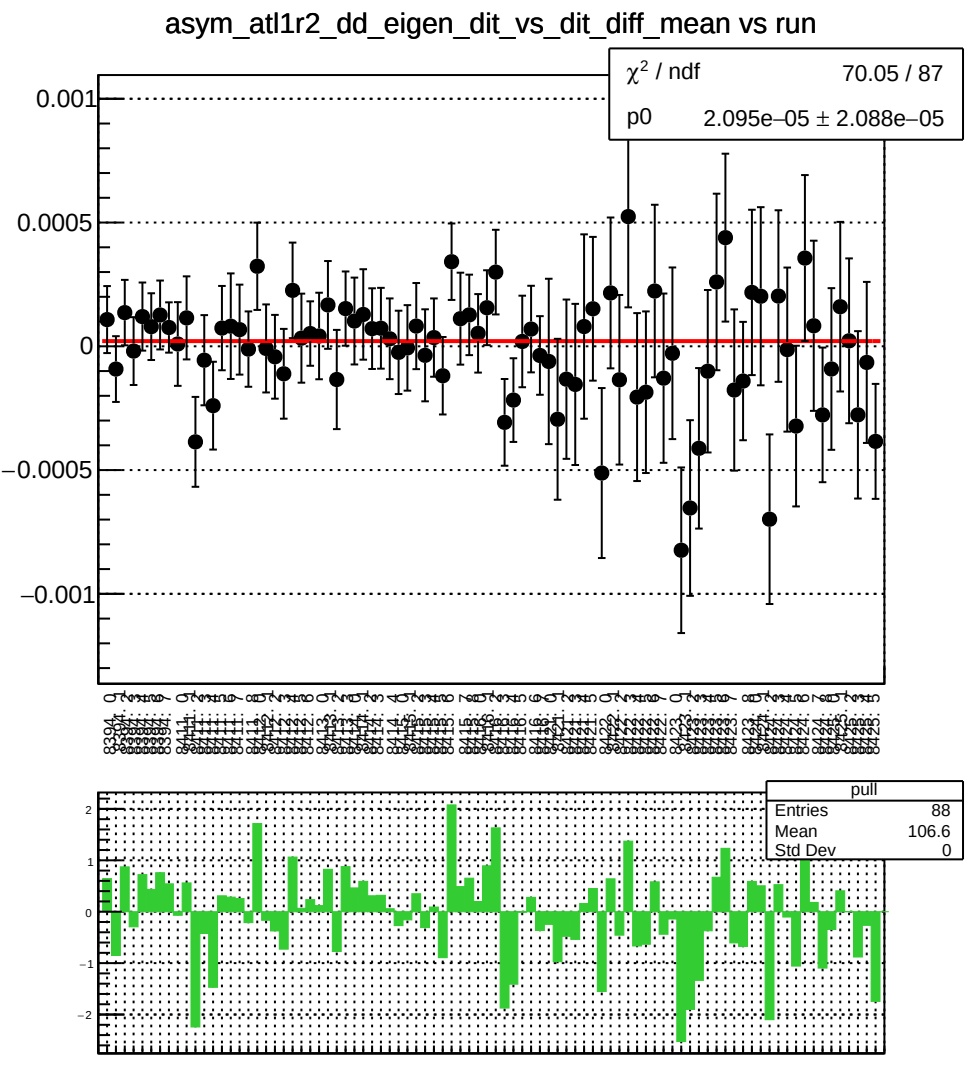

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.237e+06 / 87
p0 3.708e−10 ± 5.493e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

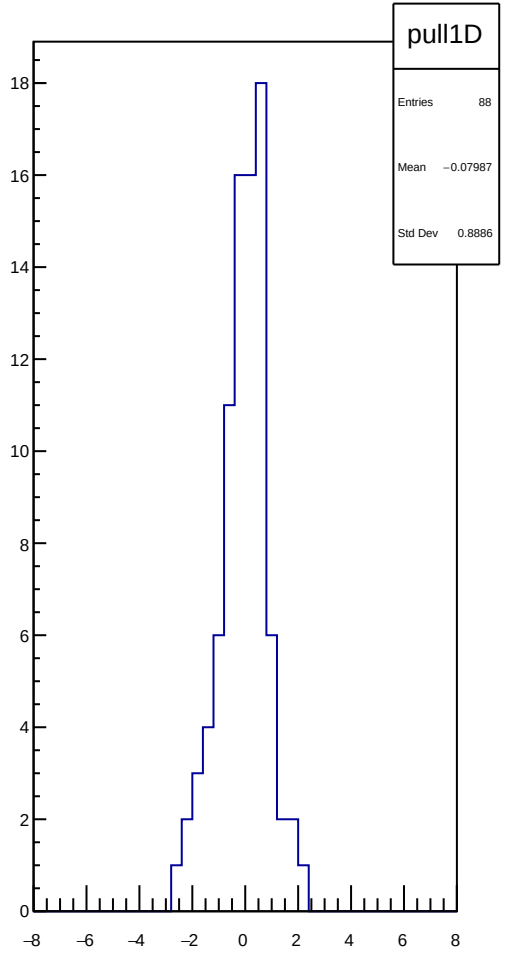

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 96.68 / 87
p0 0.0873 ± 0.1521
pull
Entries 88
Mean −541.1
Std Dev 0
pull1D
Entries 88
Mean 0.01194
Std Dev 1.048

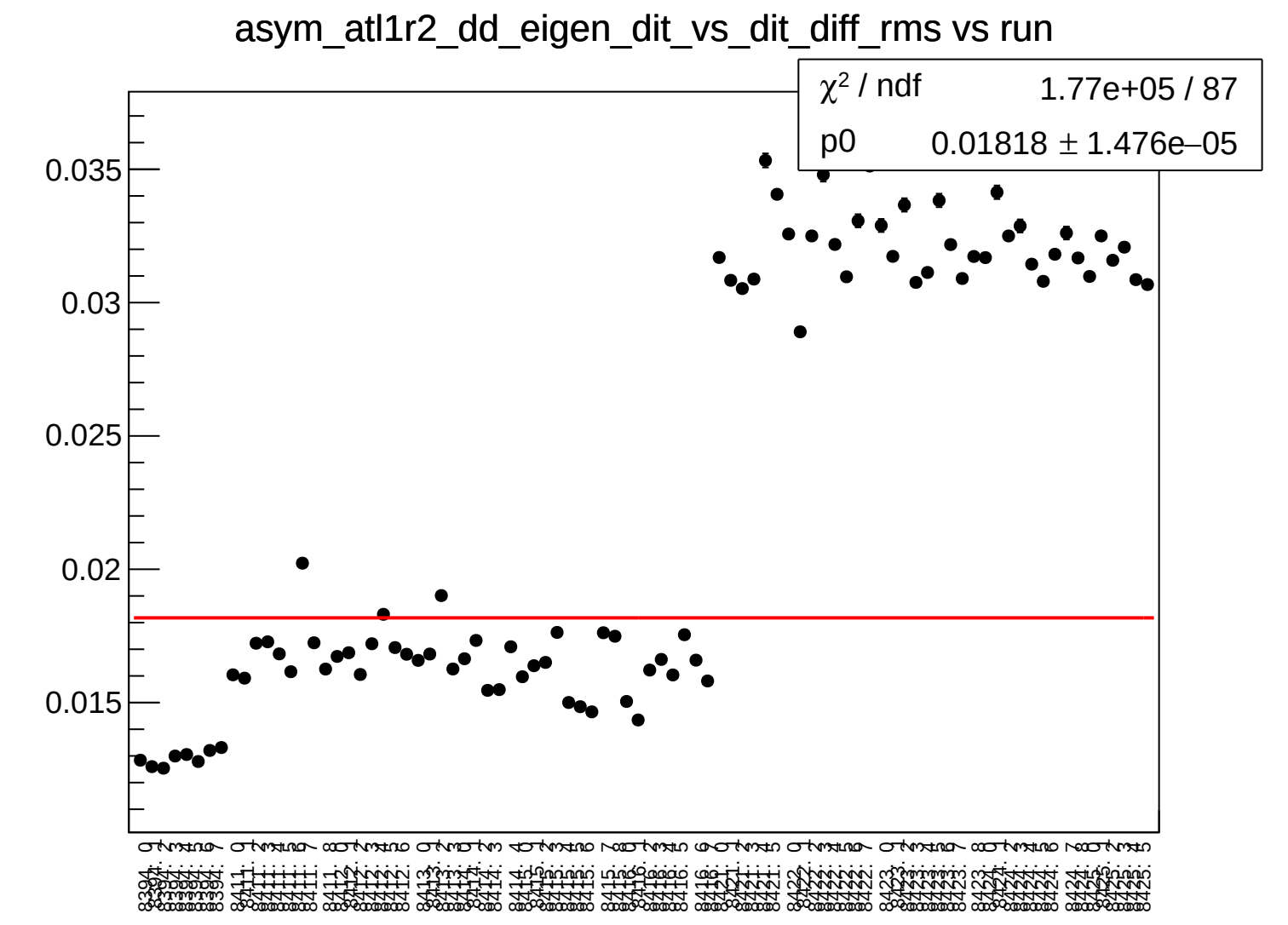

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4e+04 / 87
p0 138.2 ± 0.1075
200
180
160
140
120
100

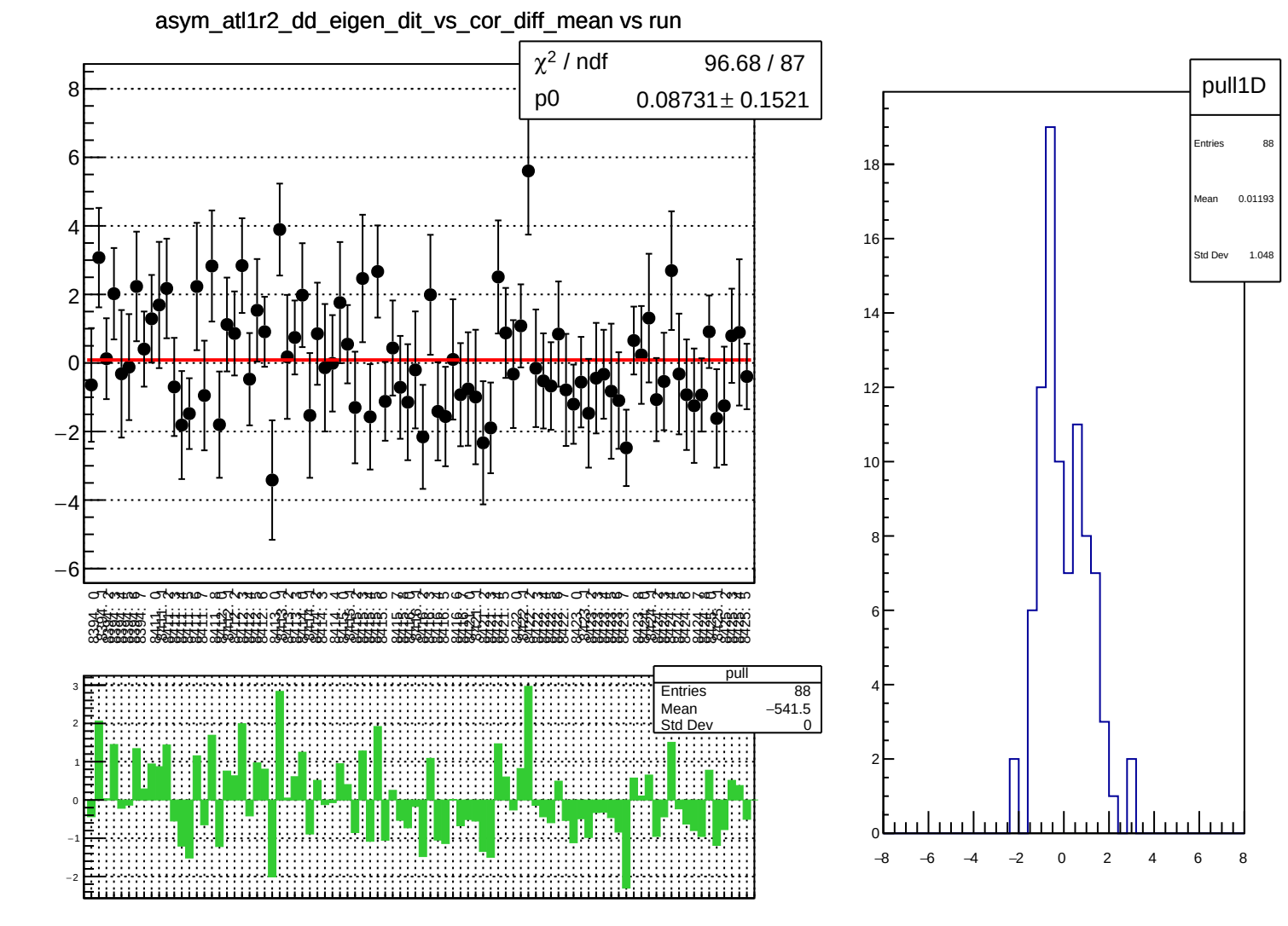

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.68 / 87
p0 0.0873 ± 0.1521
pull
Entries 88
Mean −541.1
Std Dev 0
pull1D
Entries 88
Mean 0.01194
Std Dev 1.048

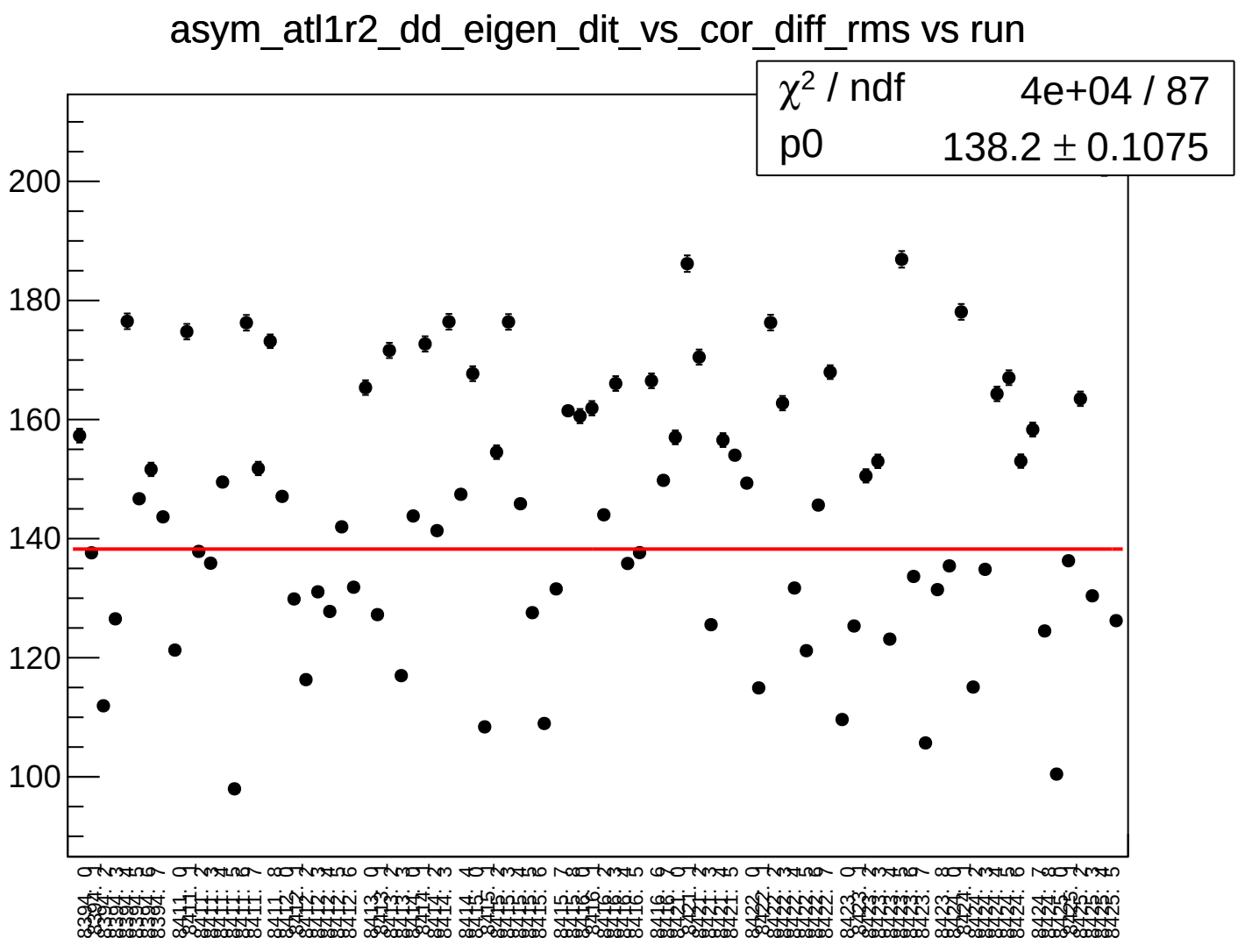

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4e+04 / 87
p0 138.2 ± 0.1075
200
180
160
140
120
100

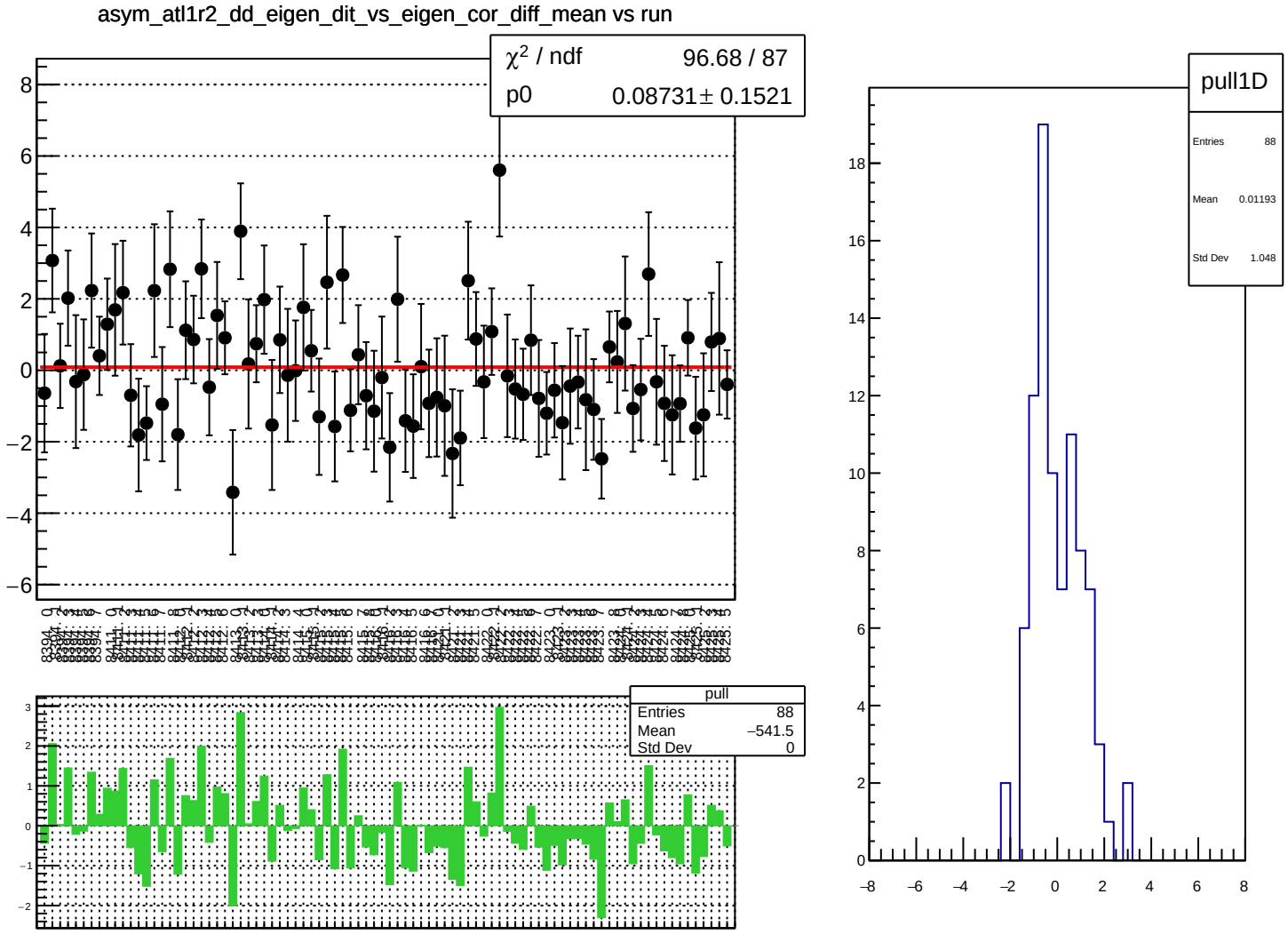

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 70.05 / 87
p0 2.095e−05 ± 2.088e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean 106.6
Std Dev 0
2
1
0
−1
−2

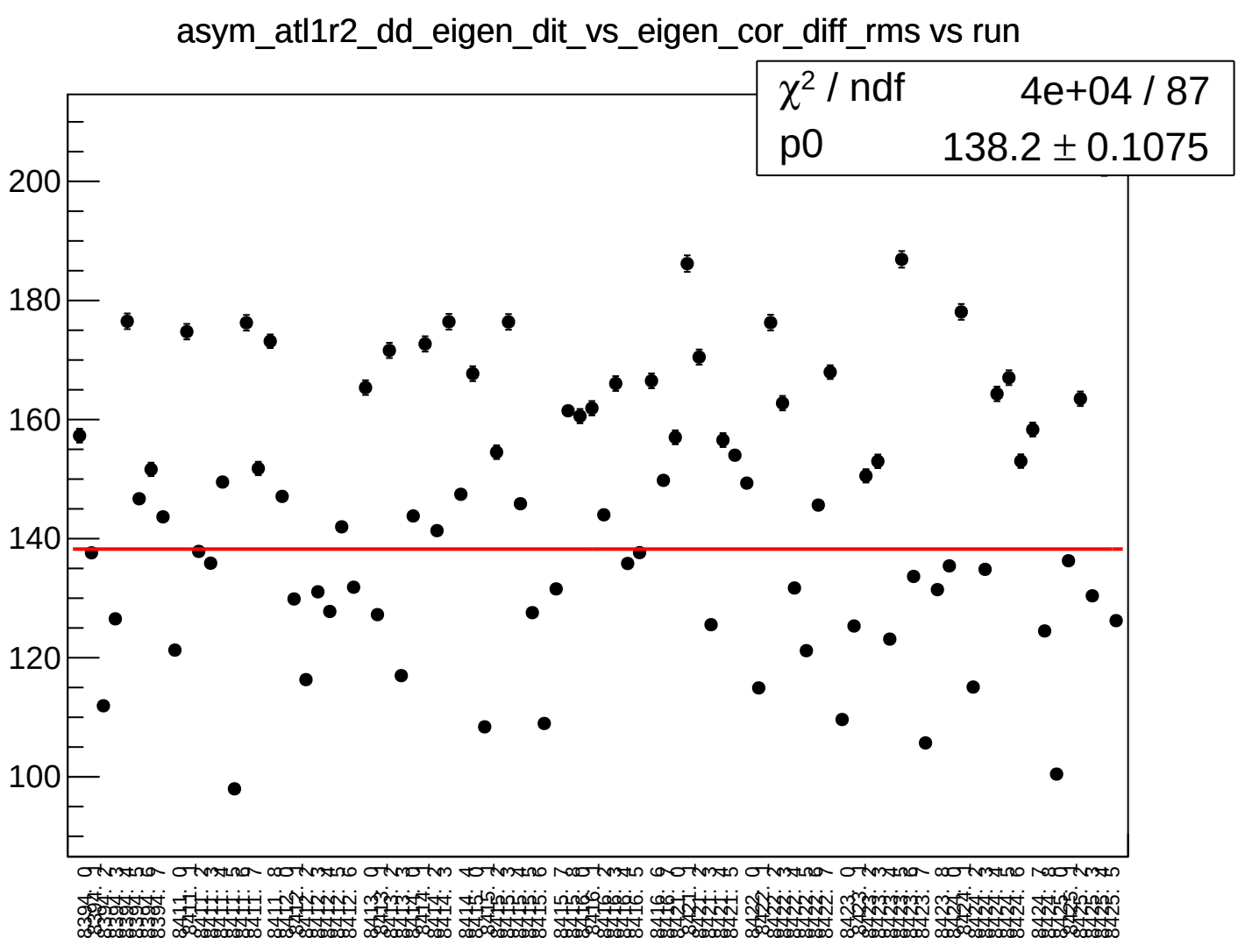

pull1D
Entries 88
Mean −0.07987
Std Dev 0.8886
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

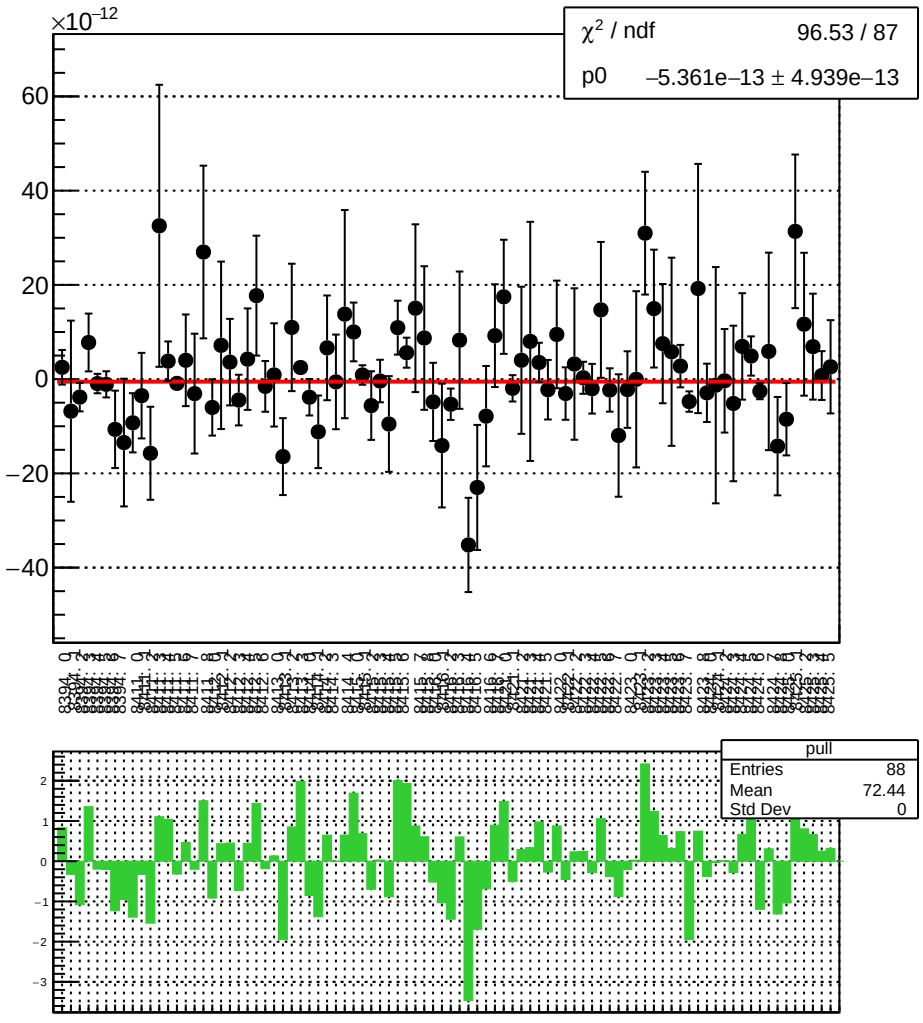

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.77e+05 / 87
p0 0.01818 ± 1.476e−05
0.035
0.03
0.025
0.02
0.015

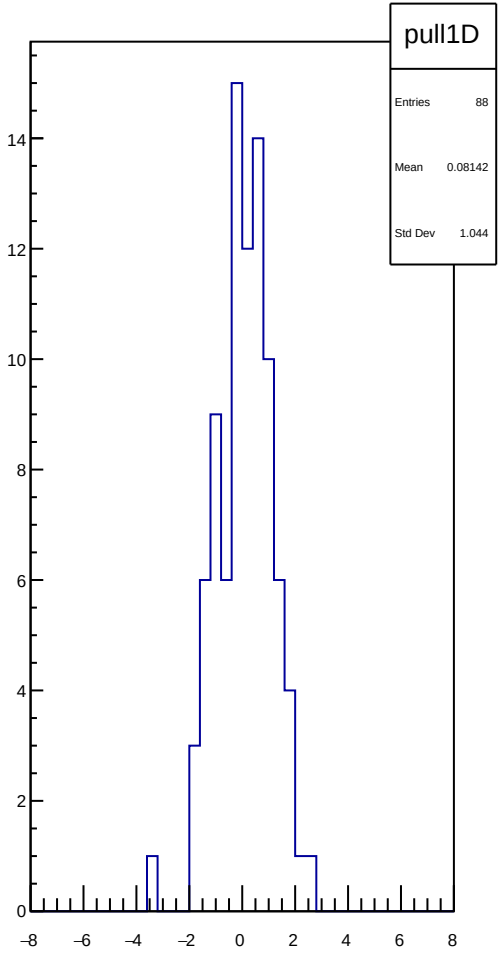

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.68 / 87
p0 0.08731± 0.1521
pull
Entries 88
Mean −541.5
Std Dev 0
pull1D
Entries 88
Mean 0.01193
Std Dev 1.048

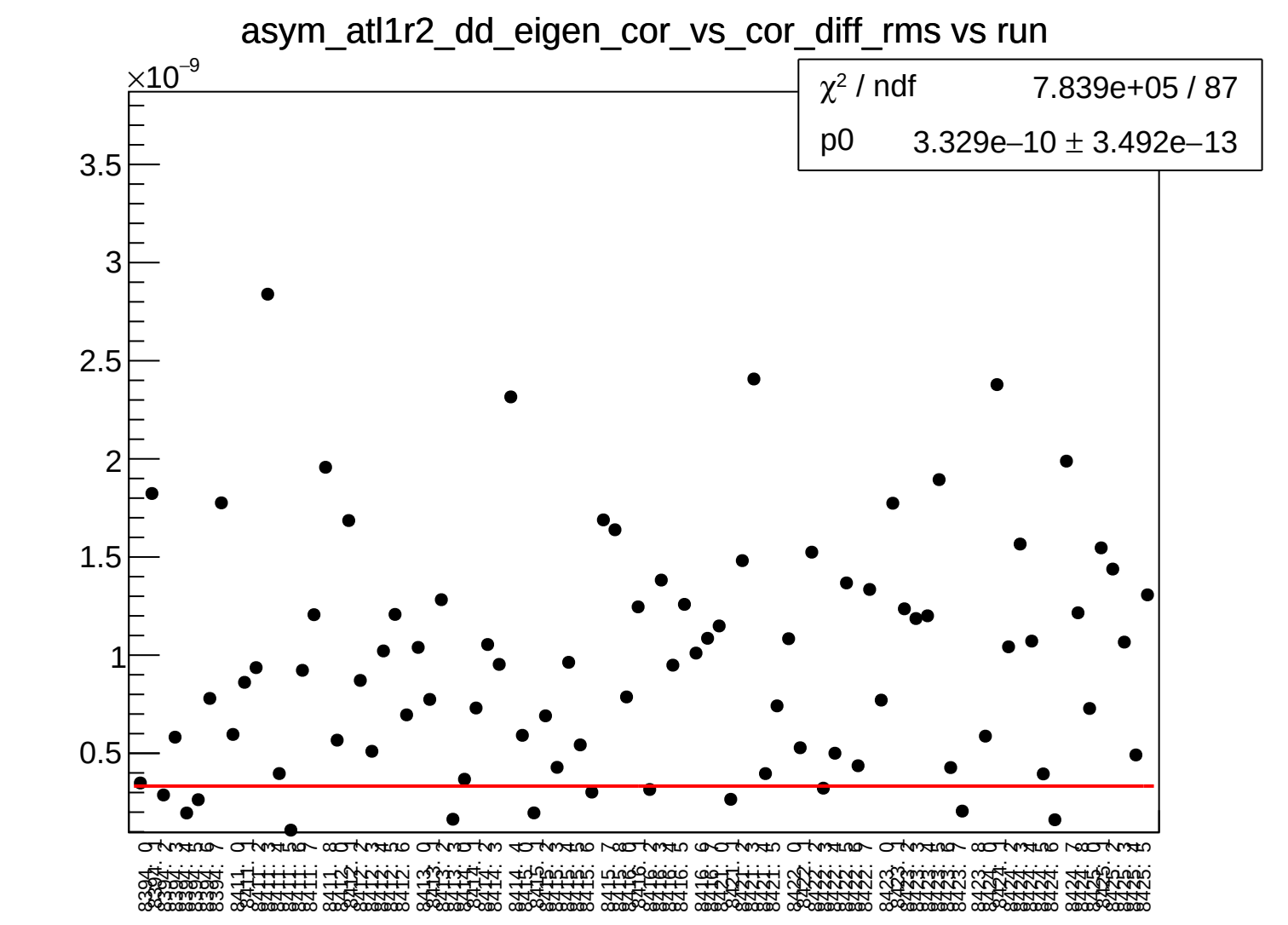

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4e+04 / 87
p0 138.2 ± 0.1075
200
180
160
140
120
100

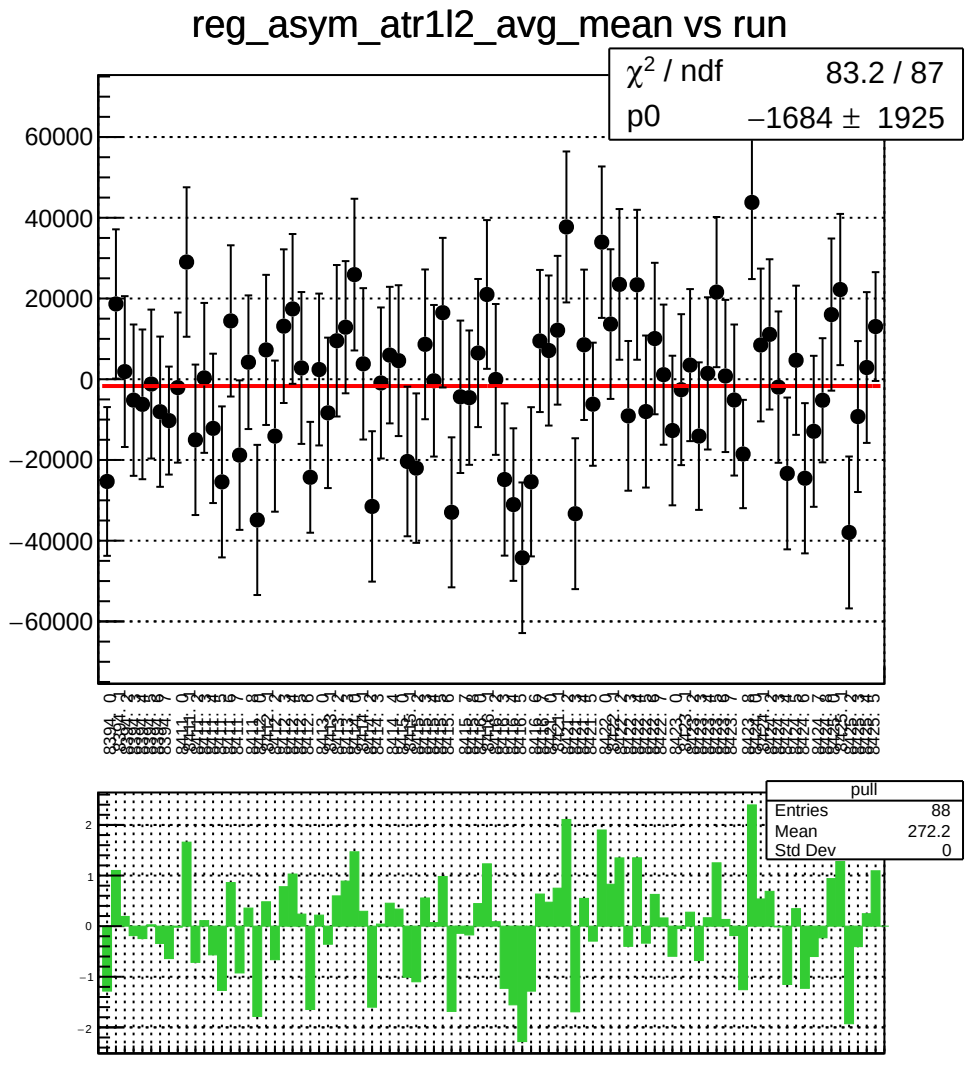

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.68 / 87
p0 0.08731± 0.1521
pull
Entries 88
Mean −541.5
Std Dev 0
pull1D
Entries 88
Mean 0.01193
Std Dev 1.048

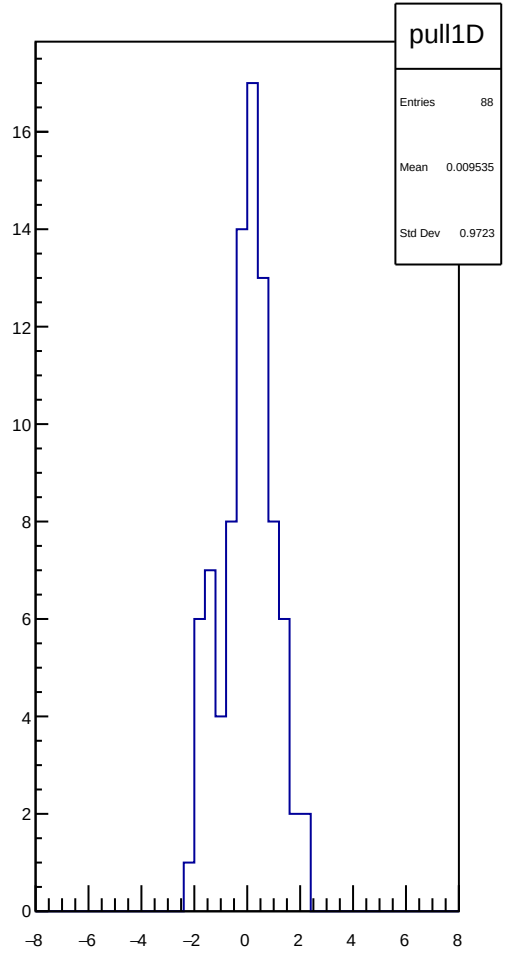

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4e+04 / 87
p0 138.2 ± 0.1075
200
180
160
140
120
100

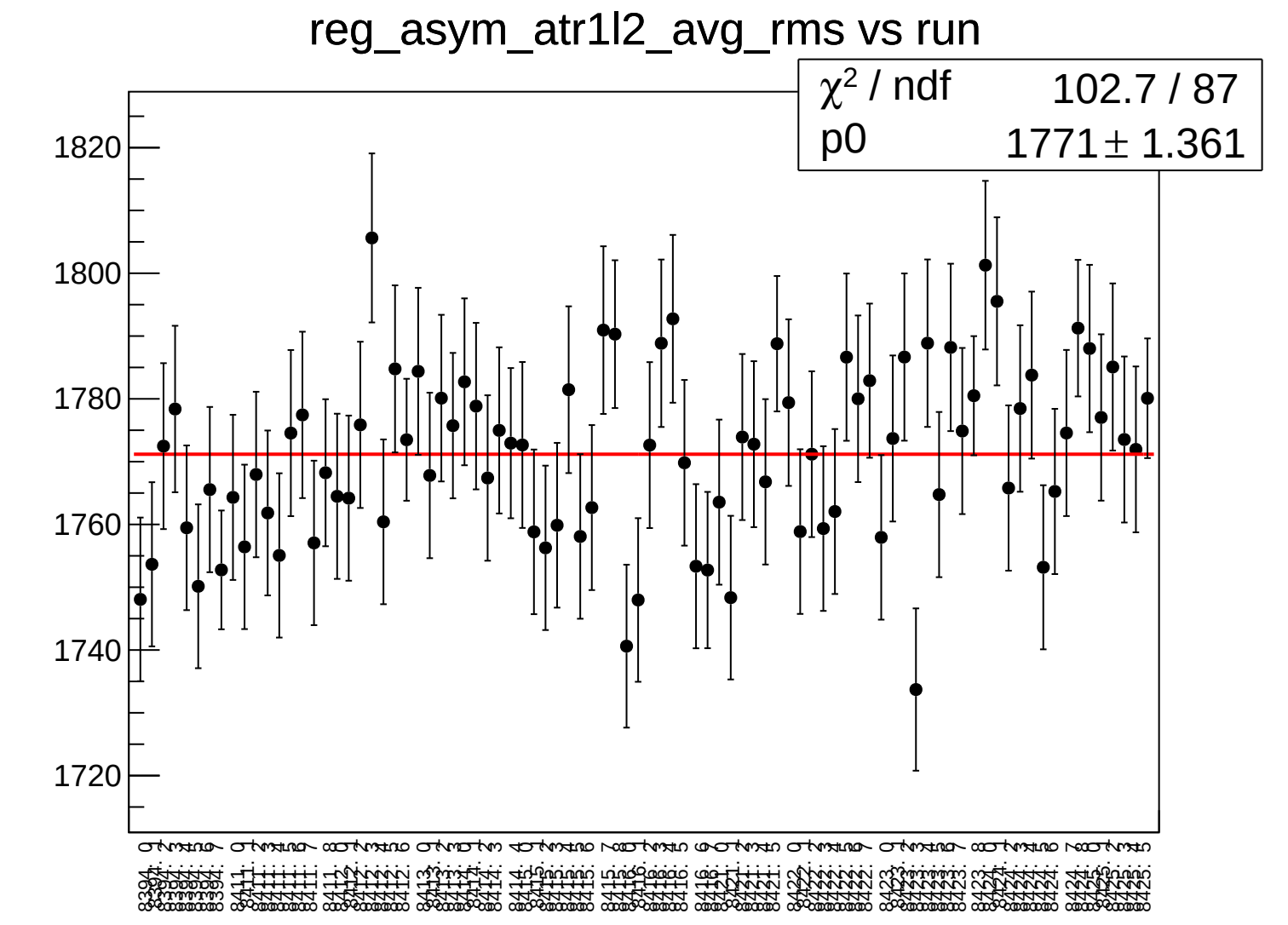

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.53 / 87
p0 −5.361e−13 ± 4.939e−13
60
40
20
0
−20
−40
pull
Entries 88
Mean 72.44
Std Dev 0
2
1
0
−1
−2
−3

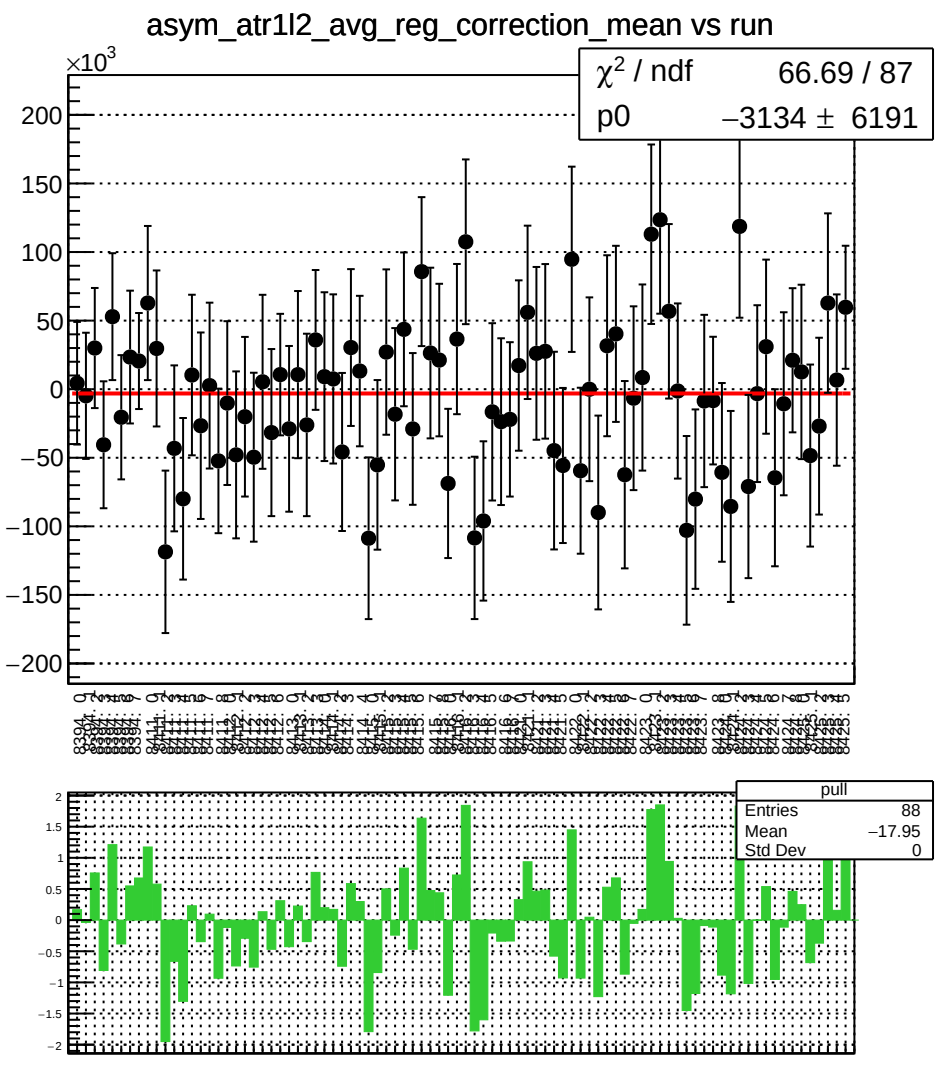

pull1D
Entries 88
Mean 0.08142
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

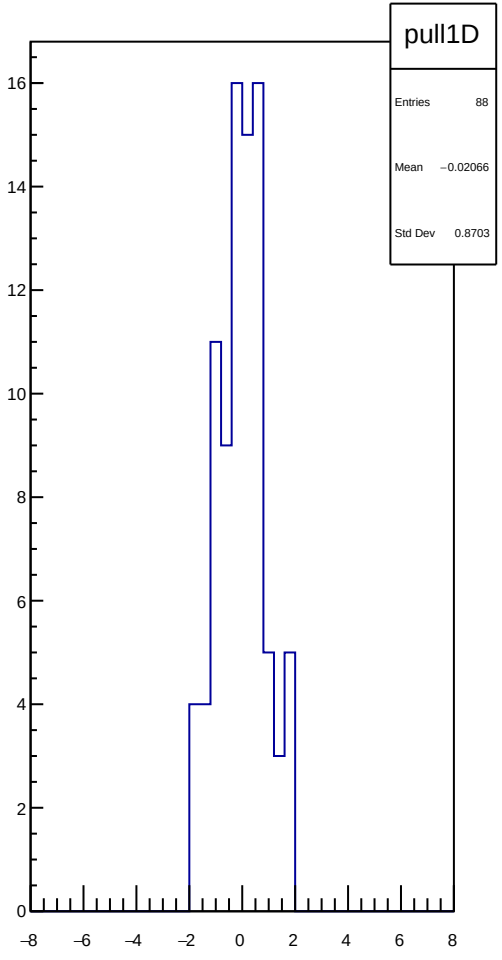

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.839e+05 / 87
p0 3.329e−10 ± 3.492e−13
3.5
3
2.5
2
1.5
1
0.5

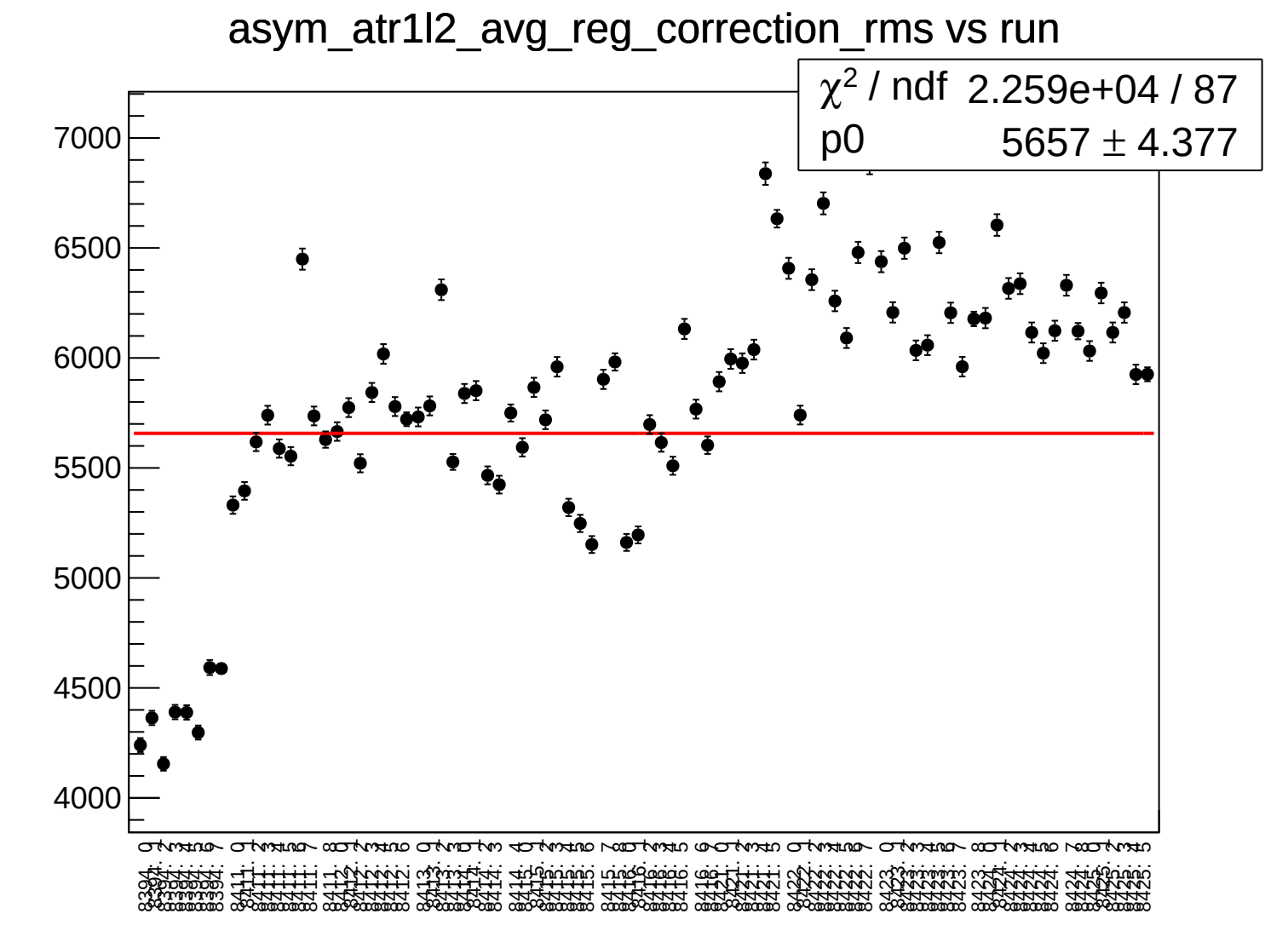

reg_asym_atr1l2_avg_mean vs run
χ^2 / ndf 83.2 / 87
p0 −1684 ± 1925
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 272.2
Std Dev 0
2
1
0
−1
−2

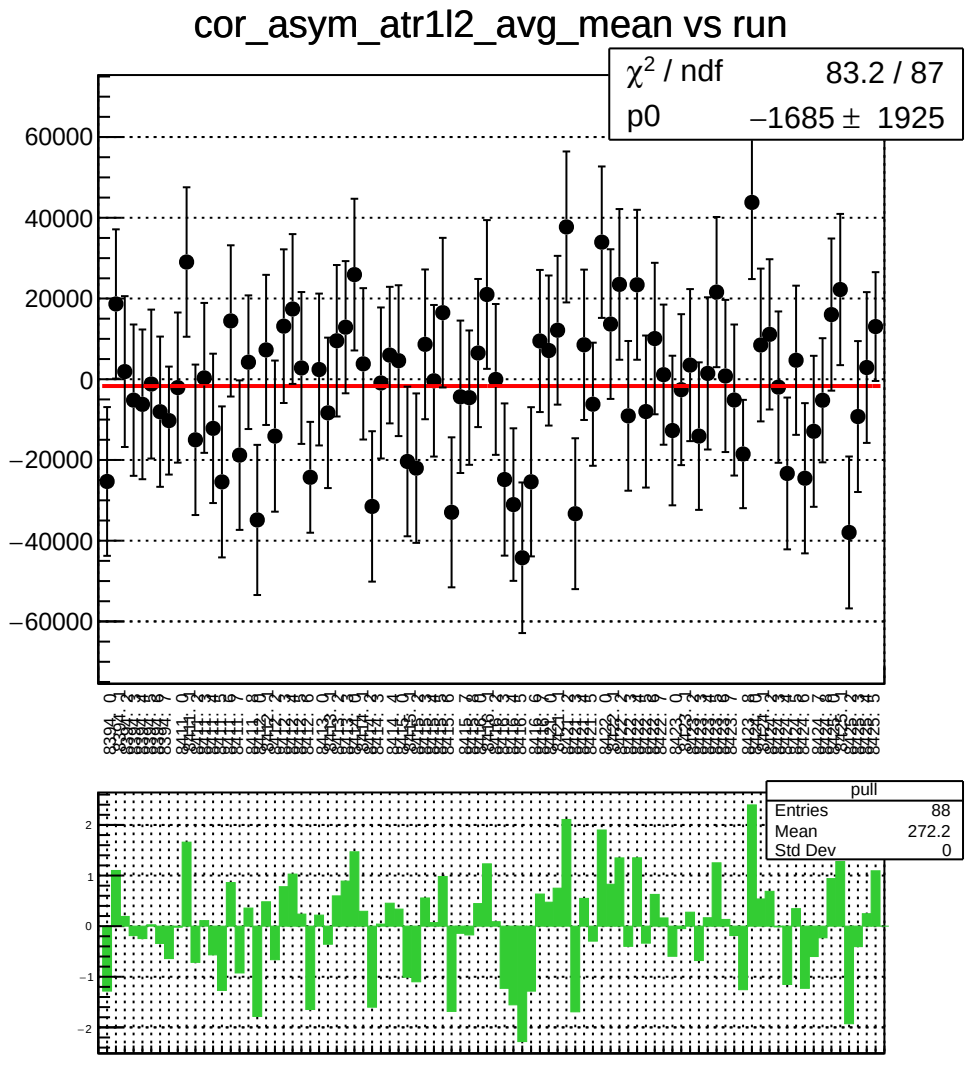

pull1D
Entries 88
Mean 0.009535
Std Dev 0.9723
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

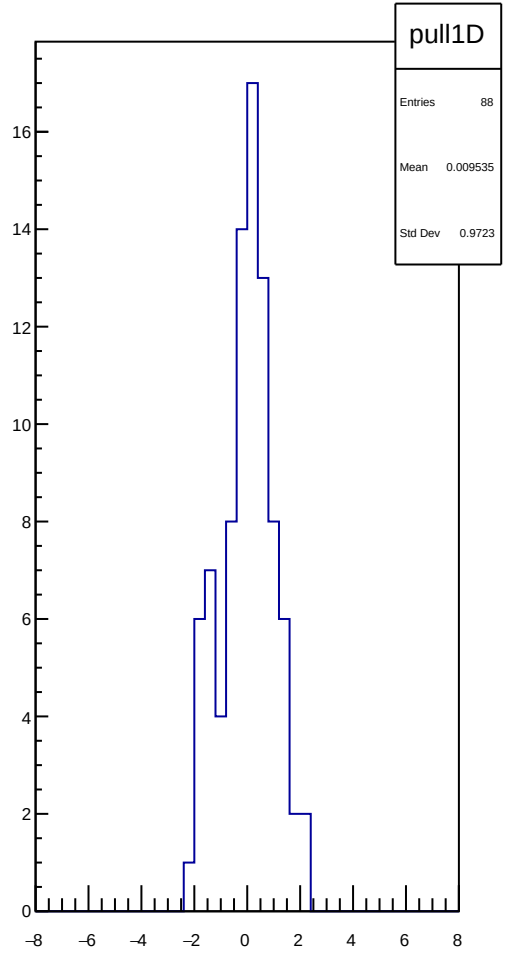

reg_asym_atr1l2_avg_rms vs run
χ^2 / ndf 102.7 / 87
p0 1771 ± 1.361
1820
1800
1780
1760
1740
1720

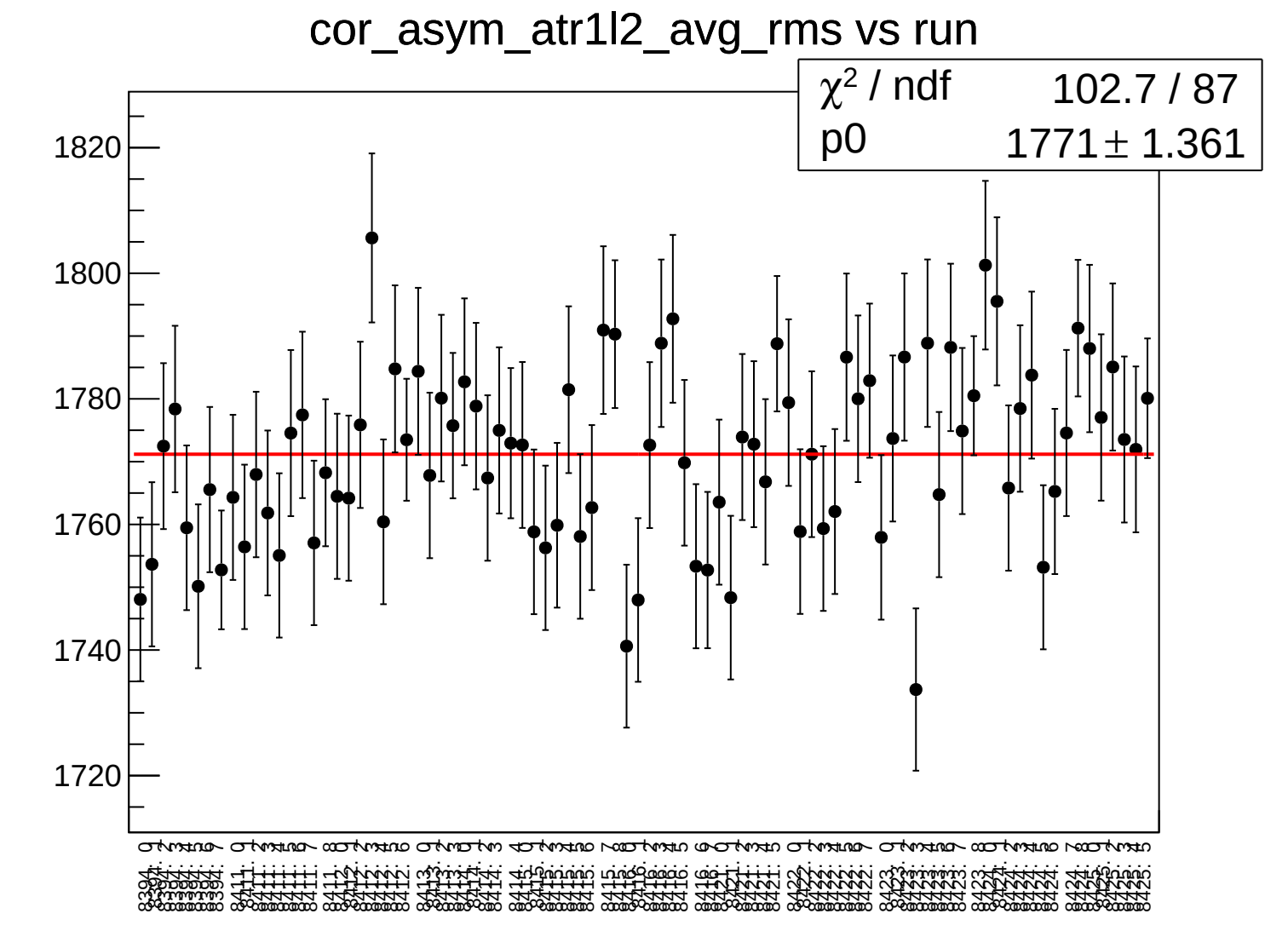

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 66.69 / 87
p0 −3134 ± 6191
pull
Entries 88
Mean −17.95
Std Dev 0

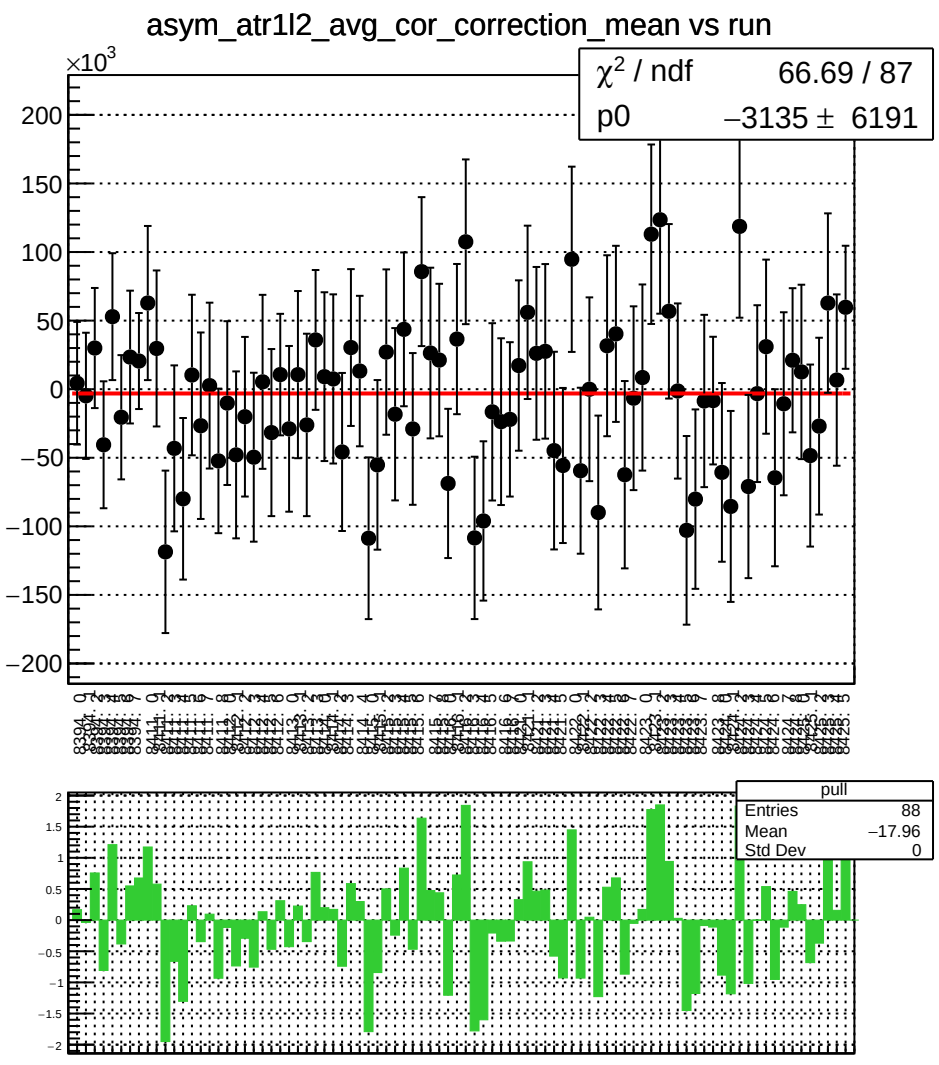

pull1D
Entries 88
Mean −0.02066
Std Dev 0.8703

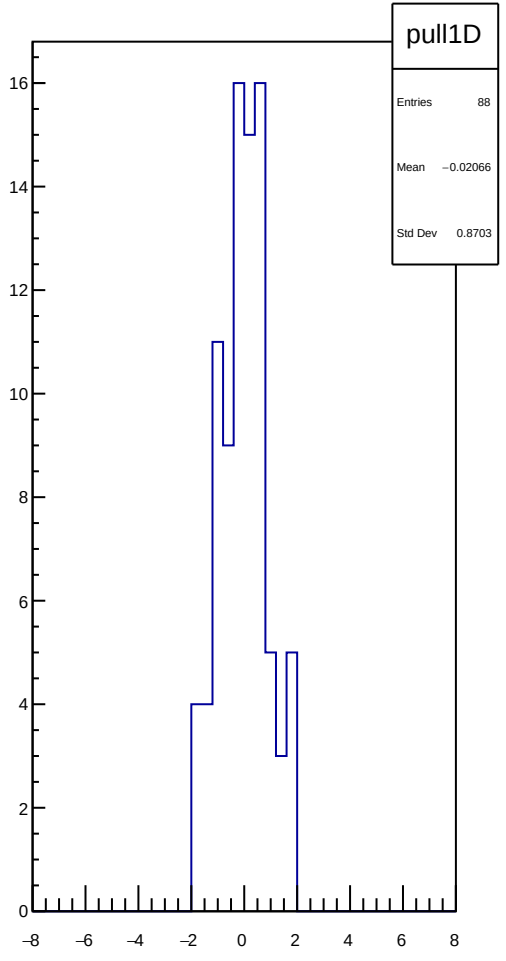

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 2.259e+04 / 87
p0 5657 ± 4.377
7000
6500
6000
5500
5000
4500
4000

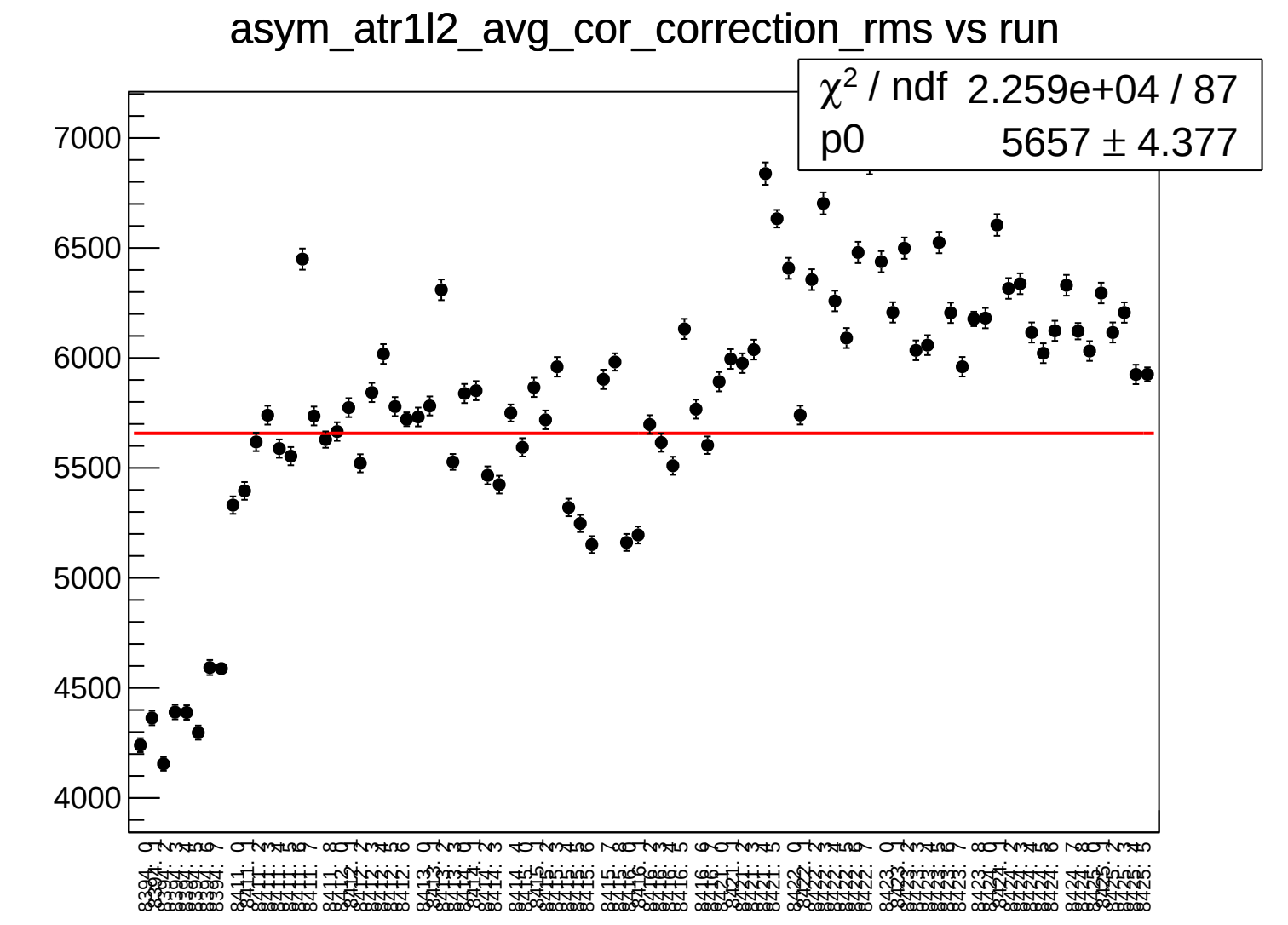

cor_asym_atr1l2_avg_mean vs run
χ^2 / ndf 83.2 / 87
p0 −1685 ± 1925
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 272.2
Std Dev 0
2
1
0
−1
−2

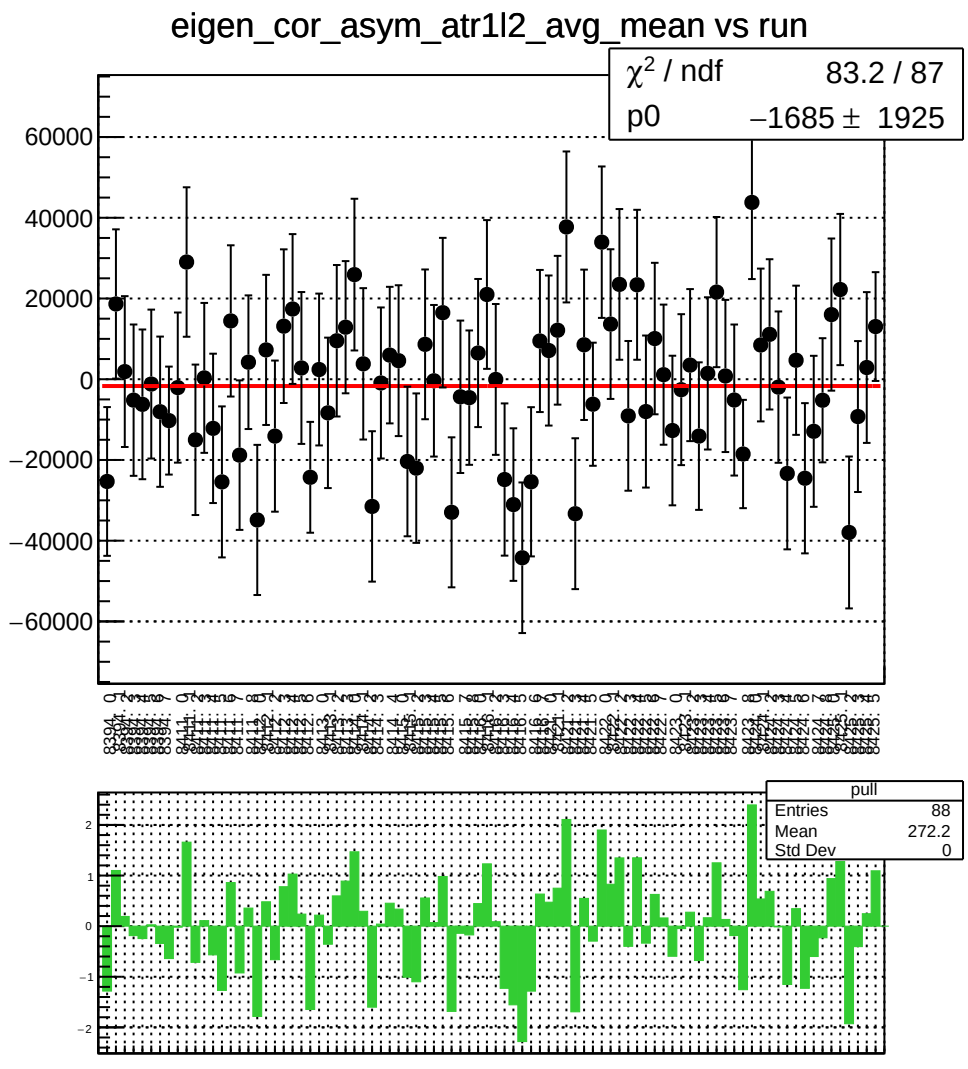

pull1D
Entries 88
Mean 0.009535
Std Dev 0.9723
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

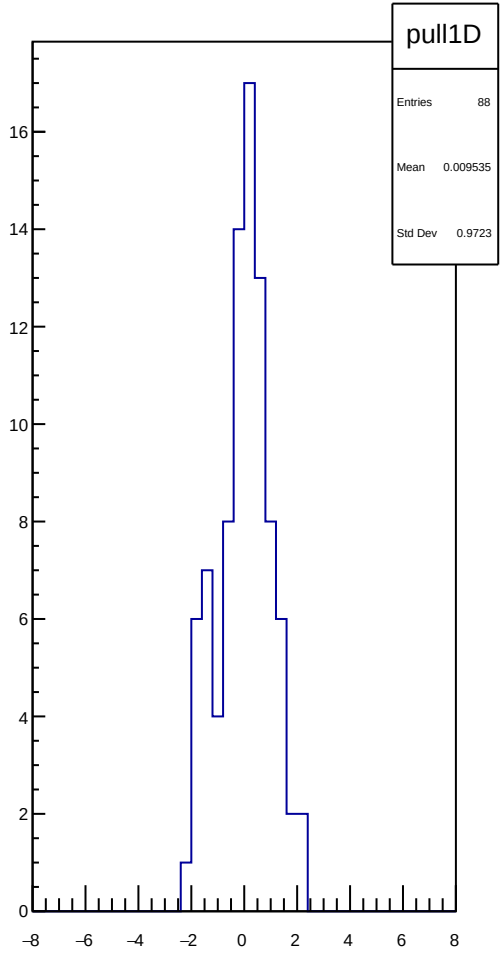

cor_asym_atr1l2_avg_rms vs run
χ^2 / ndf 102.7 / 87
p0 1771 ± 1.361
1820
1800
1780
1760
1740
1720

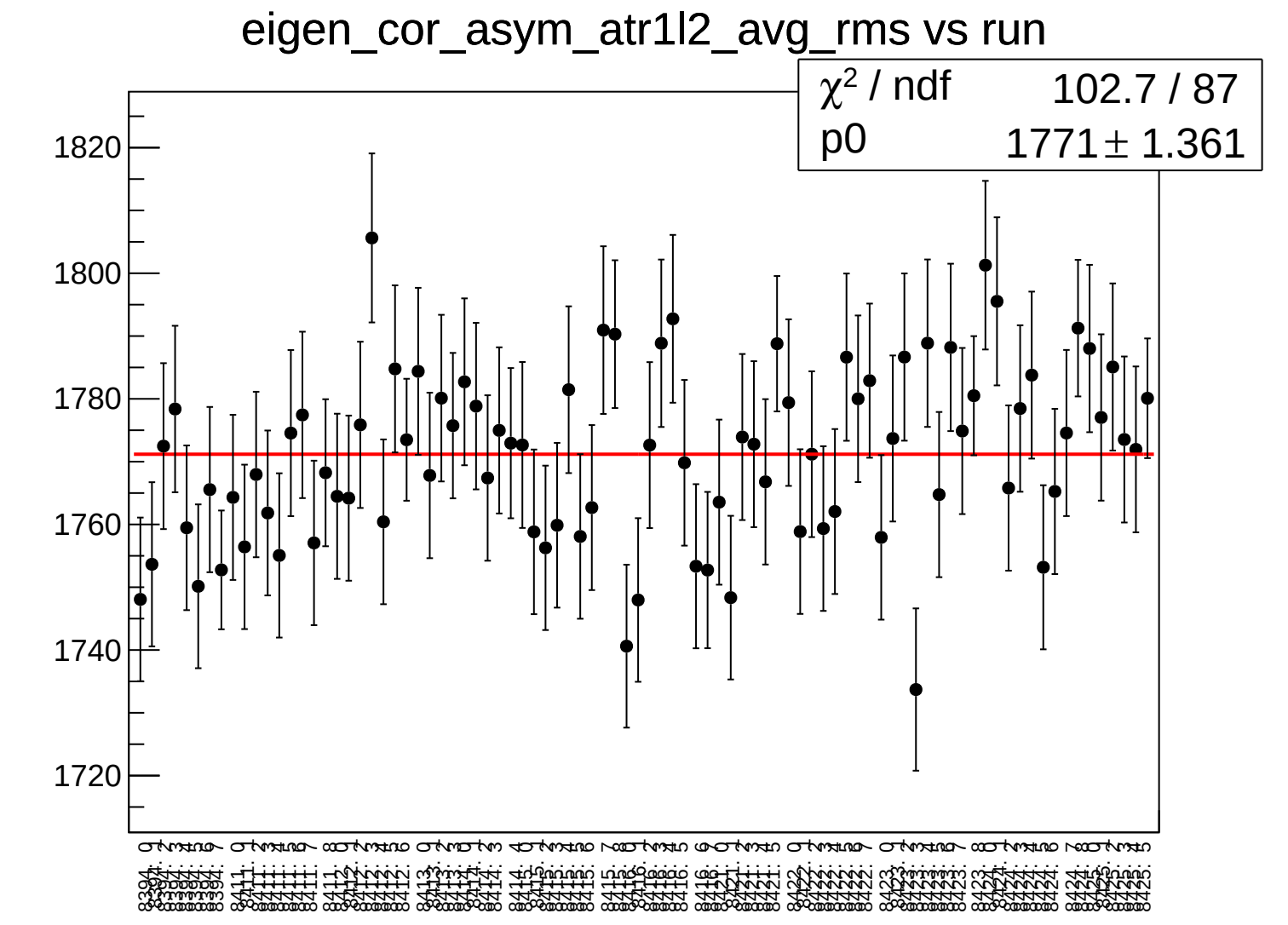

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 66.69 / 87
p0 −3135 ± 6191
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −17.96
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

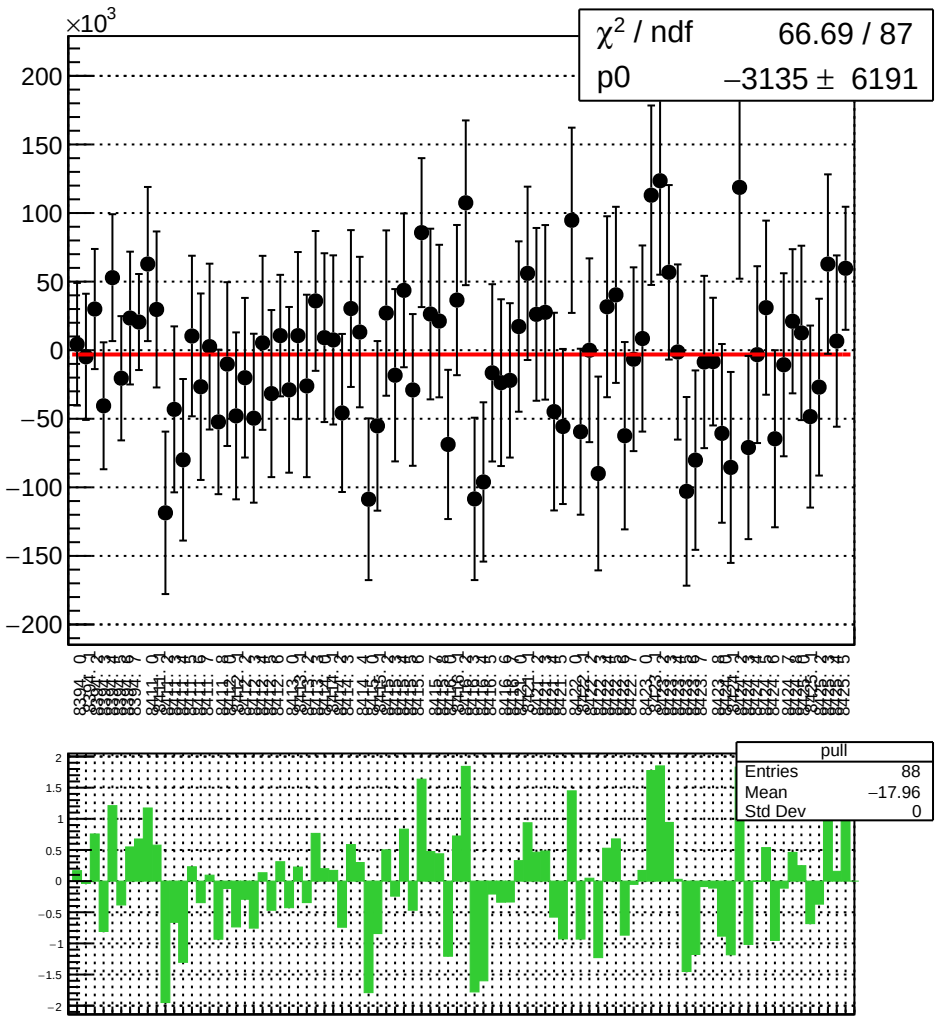

pull1D
Entries 88
Mean −0.02066
Std Dev 0.8703
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

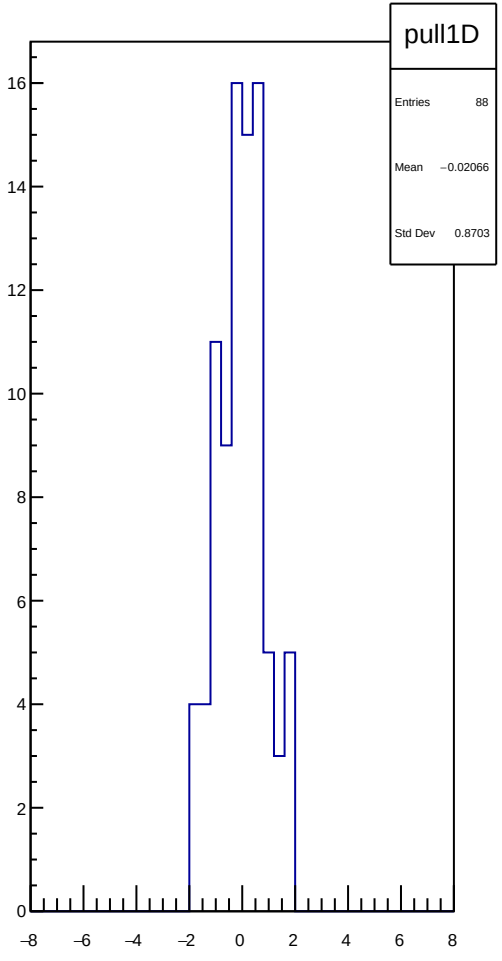

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 2.259e+04 / 87
p0 5657 ± 4.377
7000
6500
6000
5500
5000
4500
4000

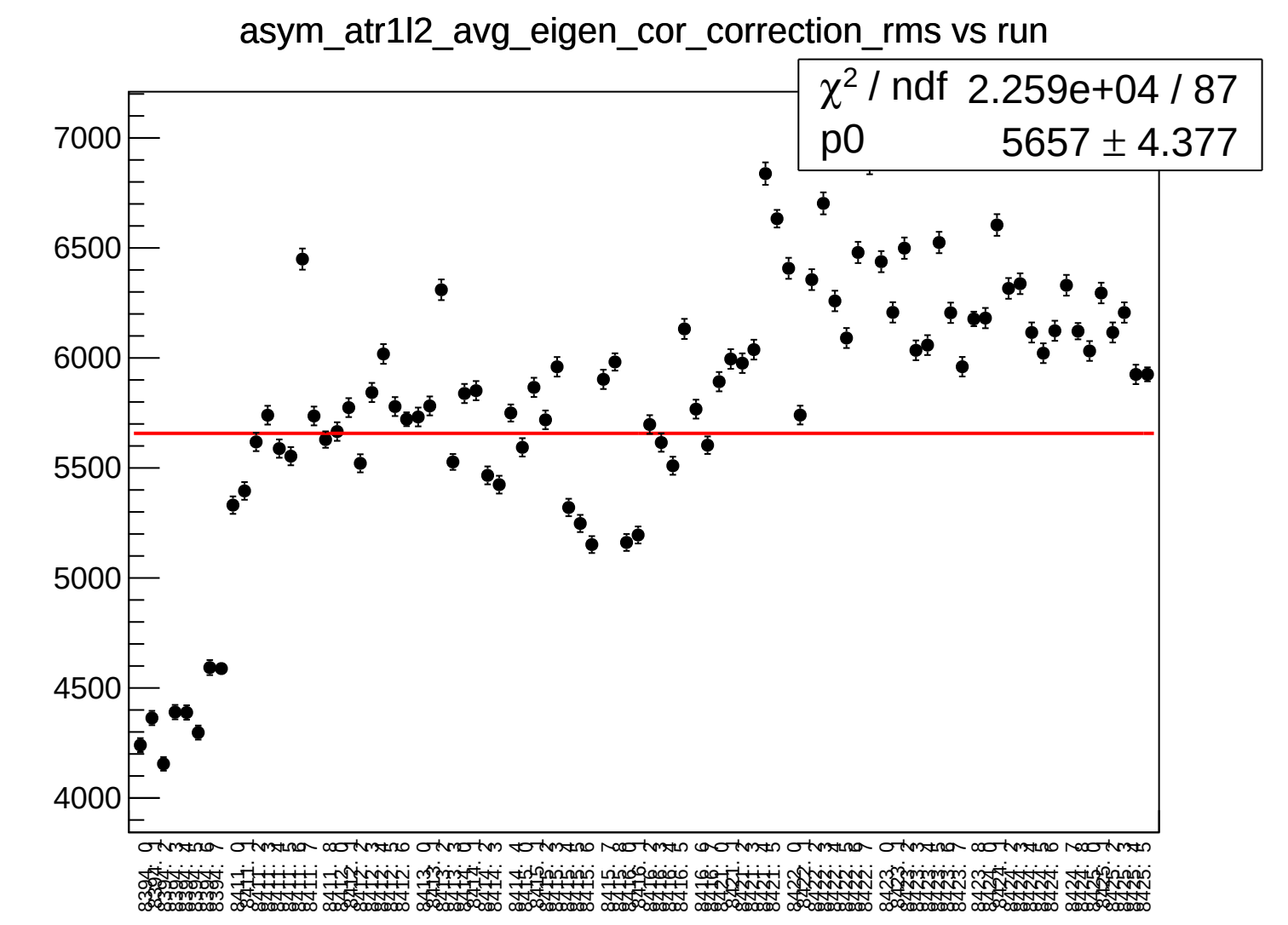

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 83.2 / 87
p0 −1685 ± 1925
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 272.2
Std Dev 0
2
1
0
−1
−2

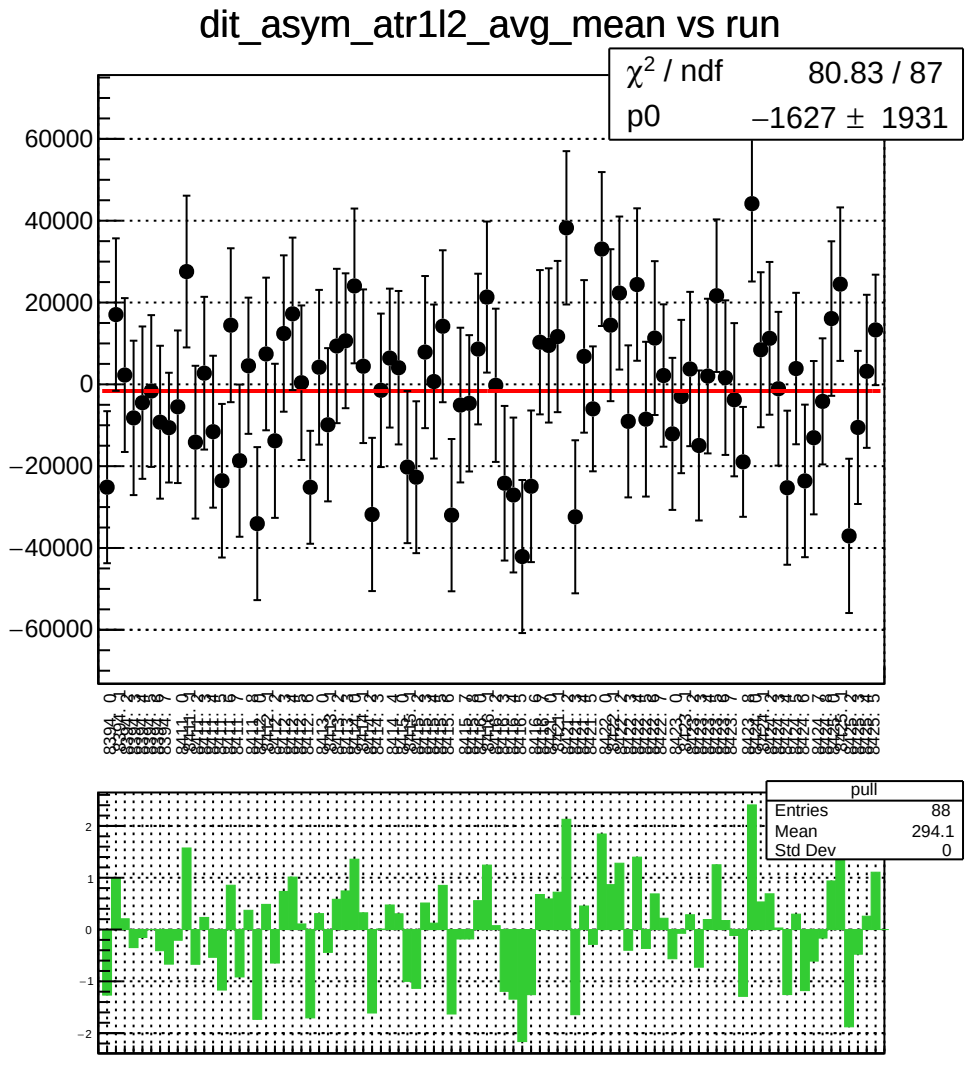

pull1D
Entries 88
Mean 0.009535
Std Dev 0.9723
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

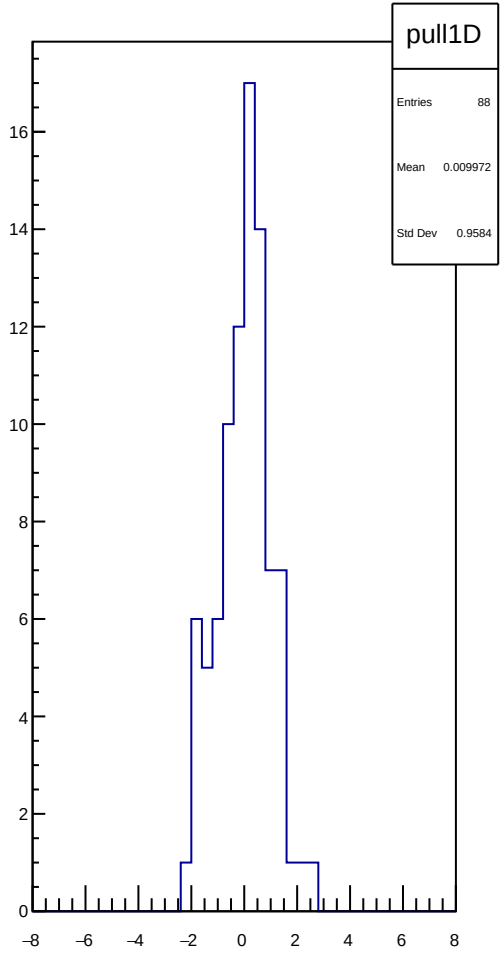

eigen_cor_asym_atr1l2_avg_rms vs run
χ^2 / ndf 102.7 / 87
p0 1771 ± 1.361
1820
1800
1780
1760
1740
1720

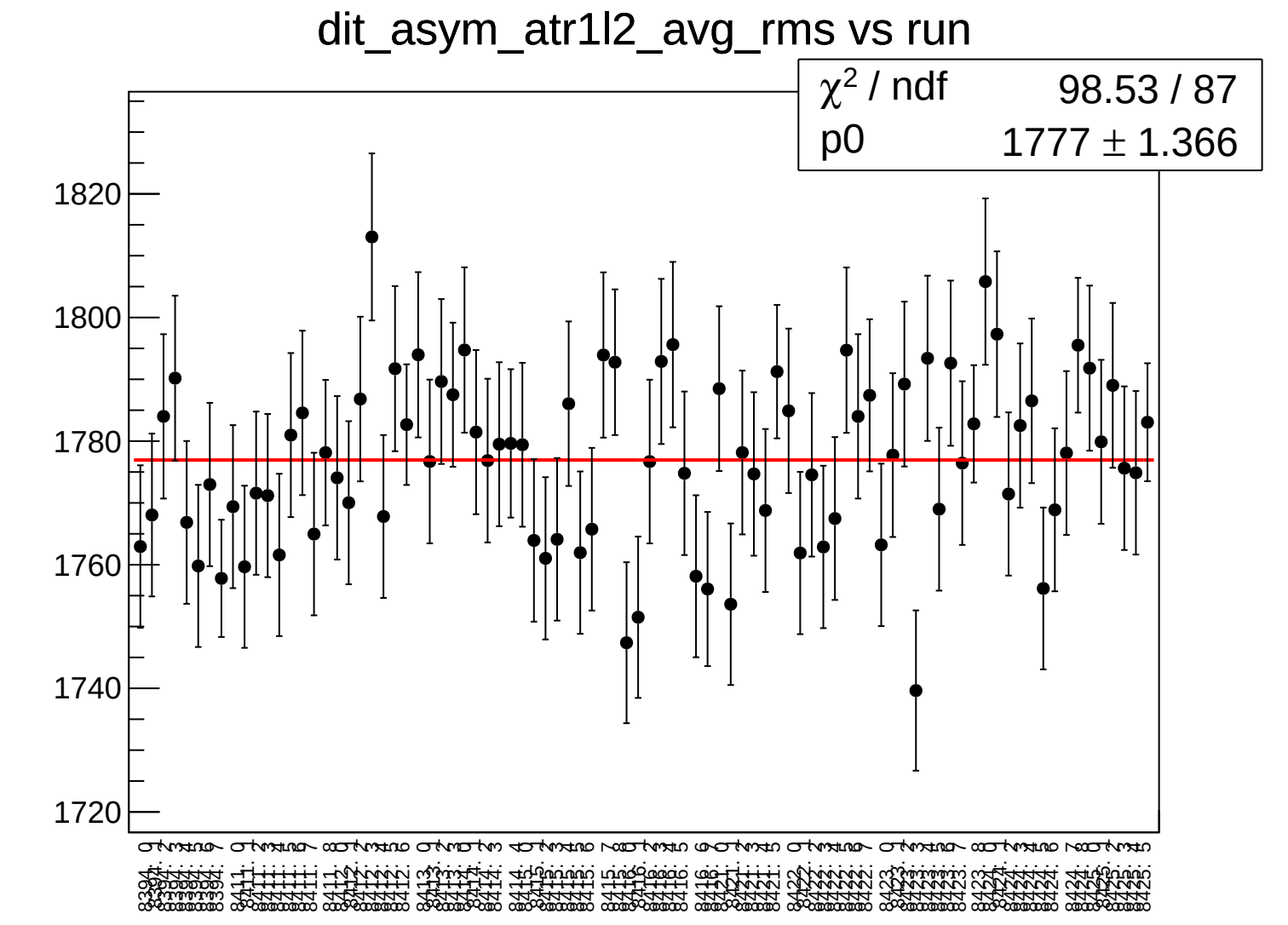

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 66.69 / 87
p0 −3135 ± 6191
pull
Entries 88
Mean −17.96
Std Dev 0

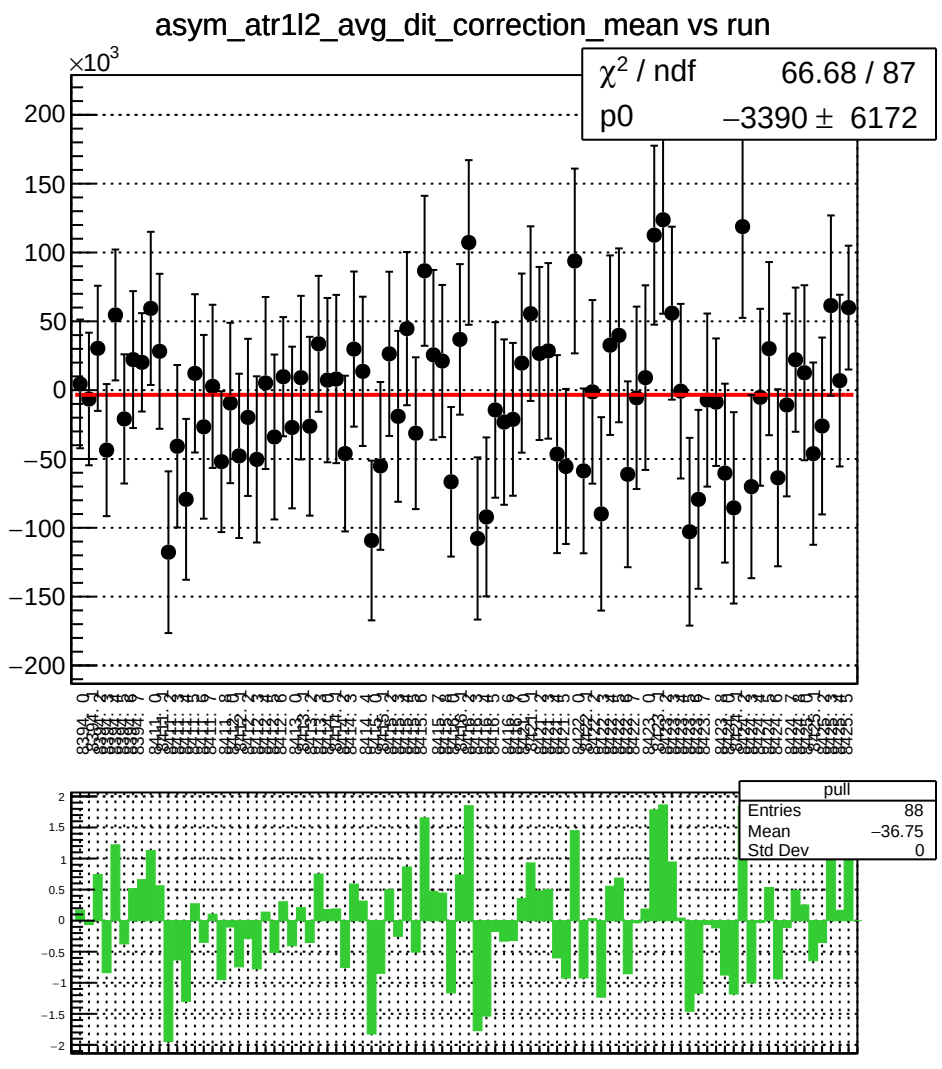

pull1D
Entries 88
Mean −0.02066
Std Dev 0.8703

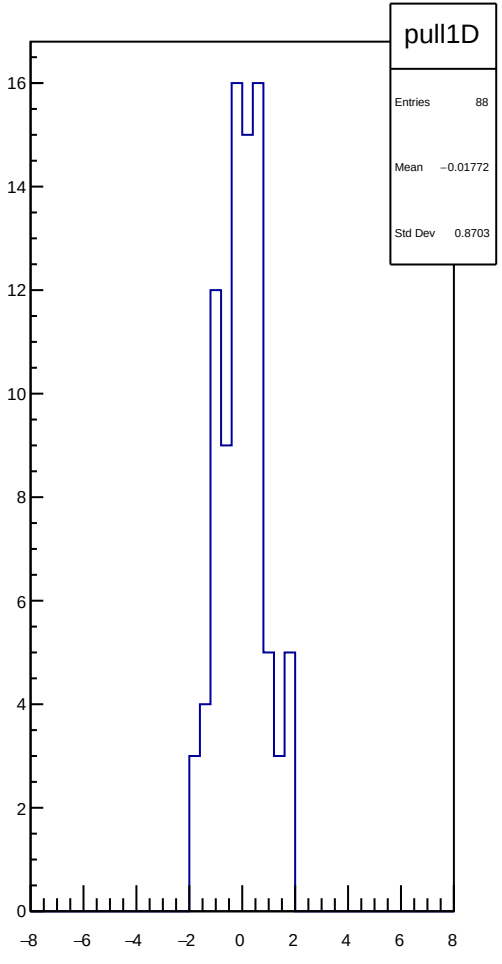

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.259e+04 / 87
p0 5657 ± 4.377
7000
6500
6000
5500
5000
4500
4000

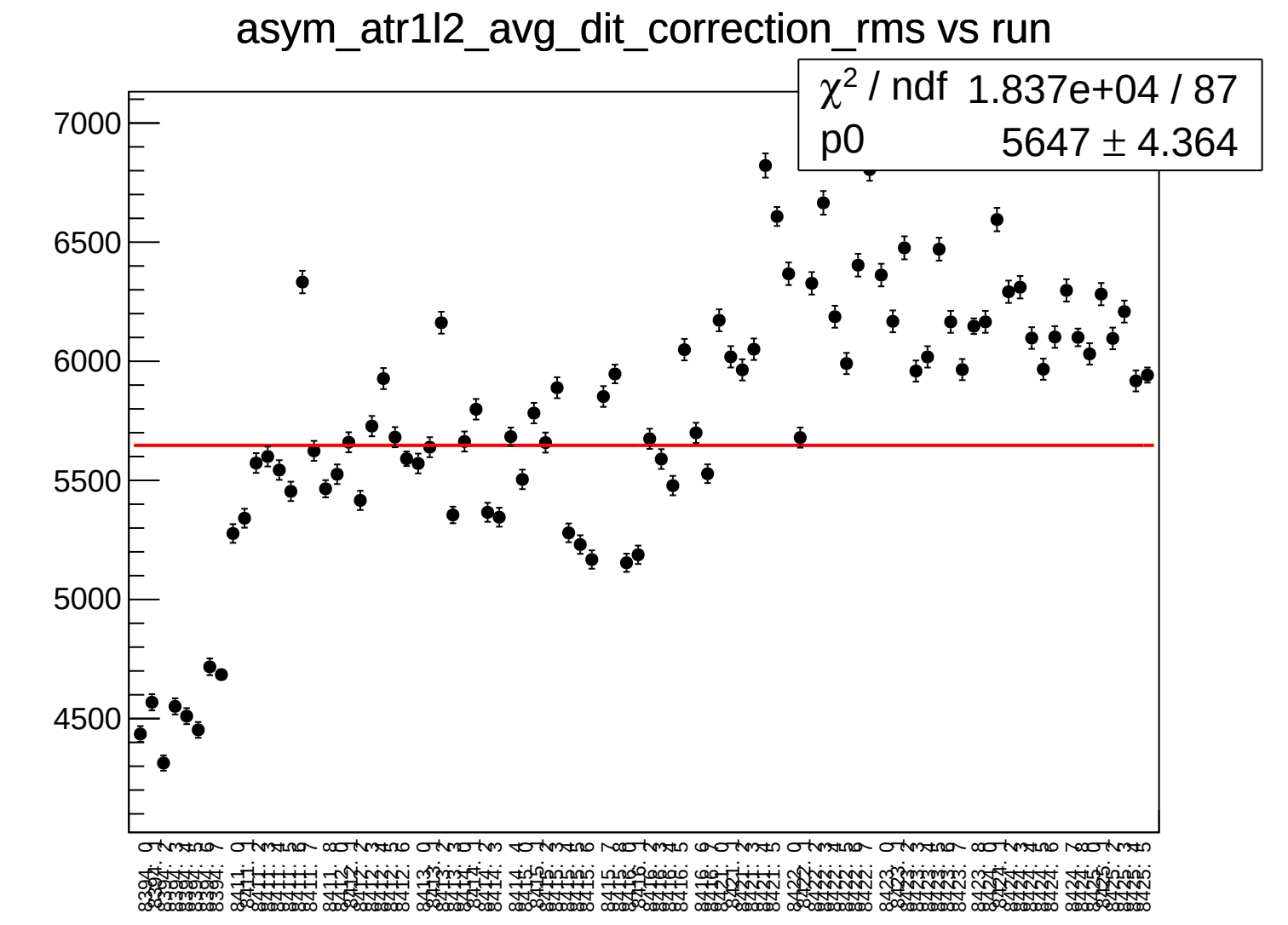

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 80.83 / 87
p0 −1627 ± 1931
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 294.1
Std Dev 0
2
1
0
−1
−2

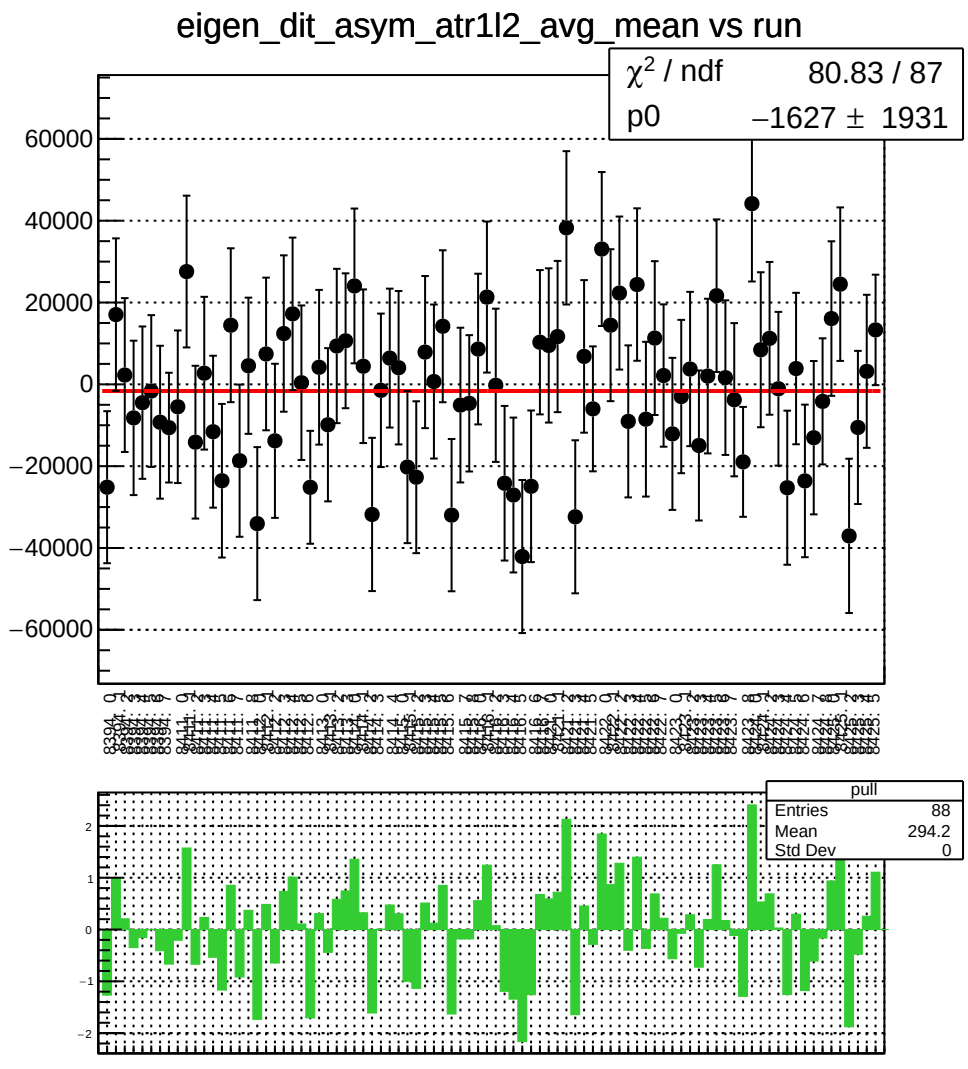

pull1D
Entries 88
Mean 0.009972
Std Dev 0.9584
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

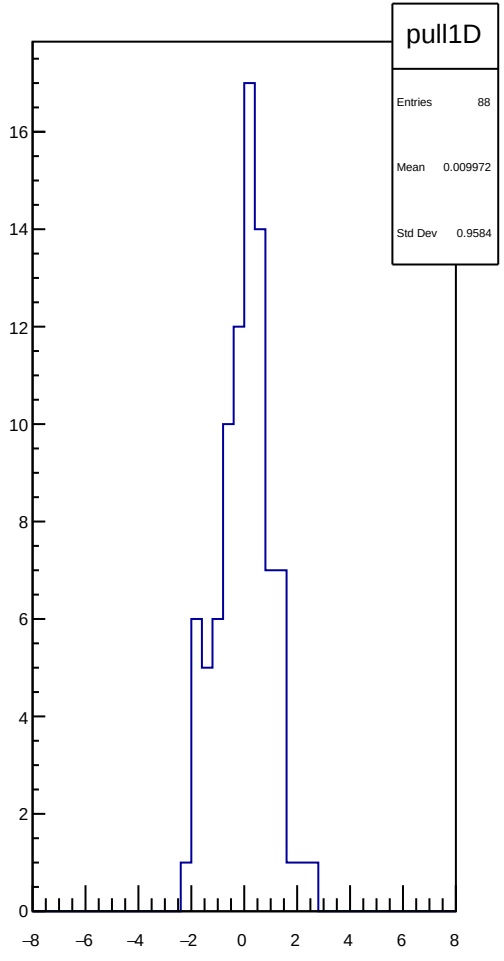

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 98.53 / 87
p0 1777 ± 1.366
1820
1800
1780
1760
1740
1720

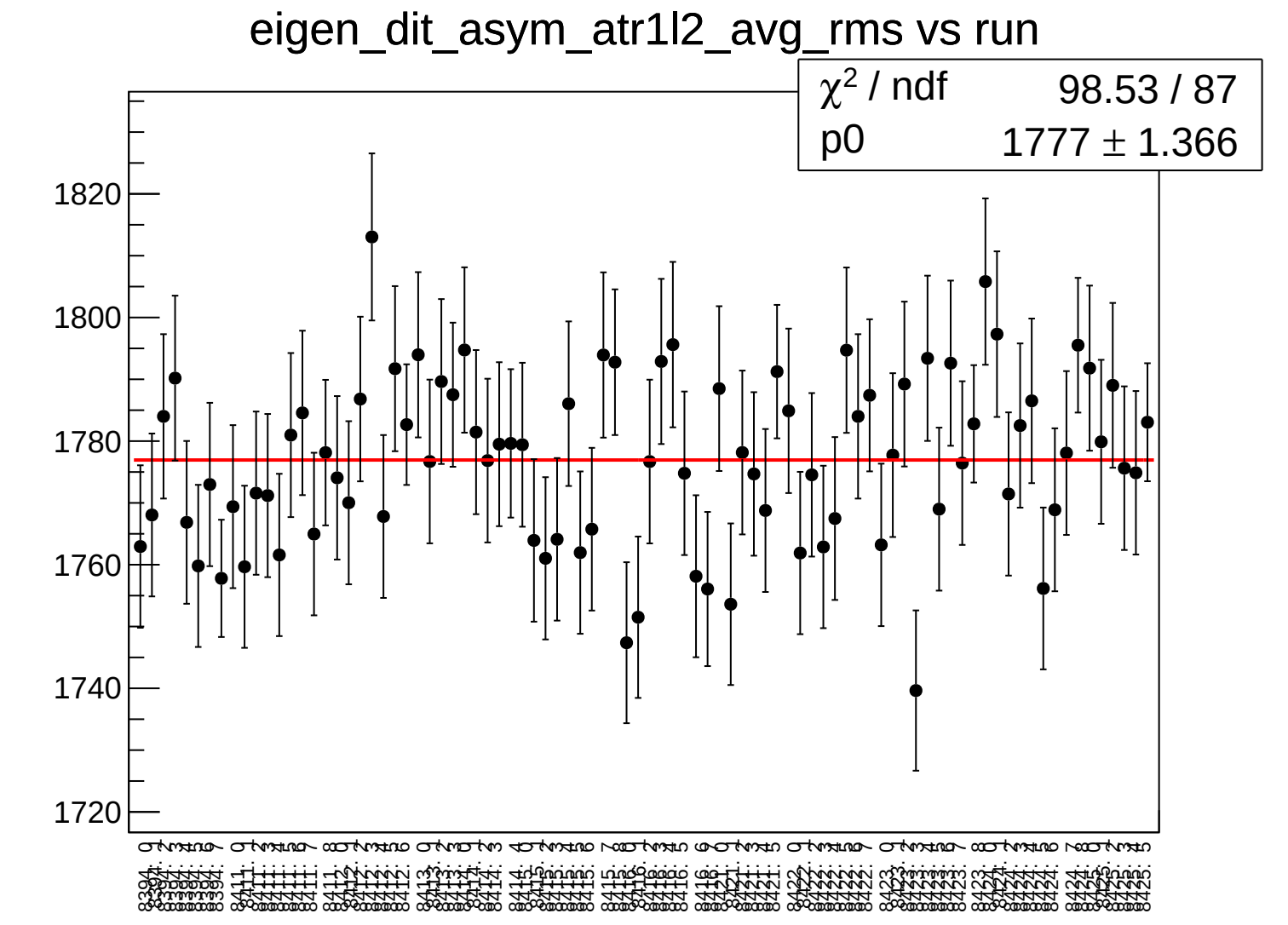

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 66.68 / 87
p0 −3390 ± 6172
pull
Entries 88
Mean −36.75
Std Dev 0

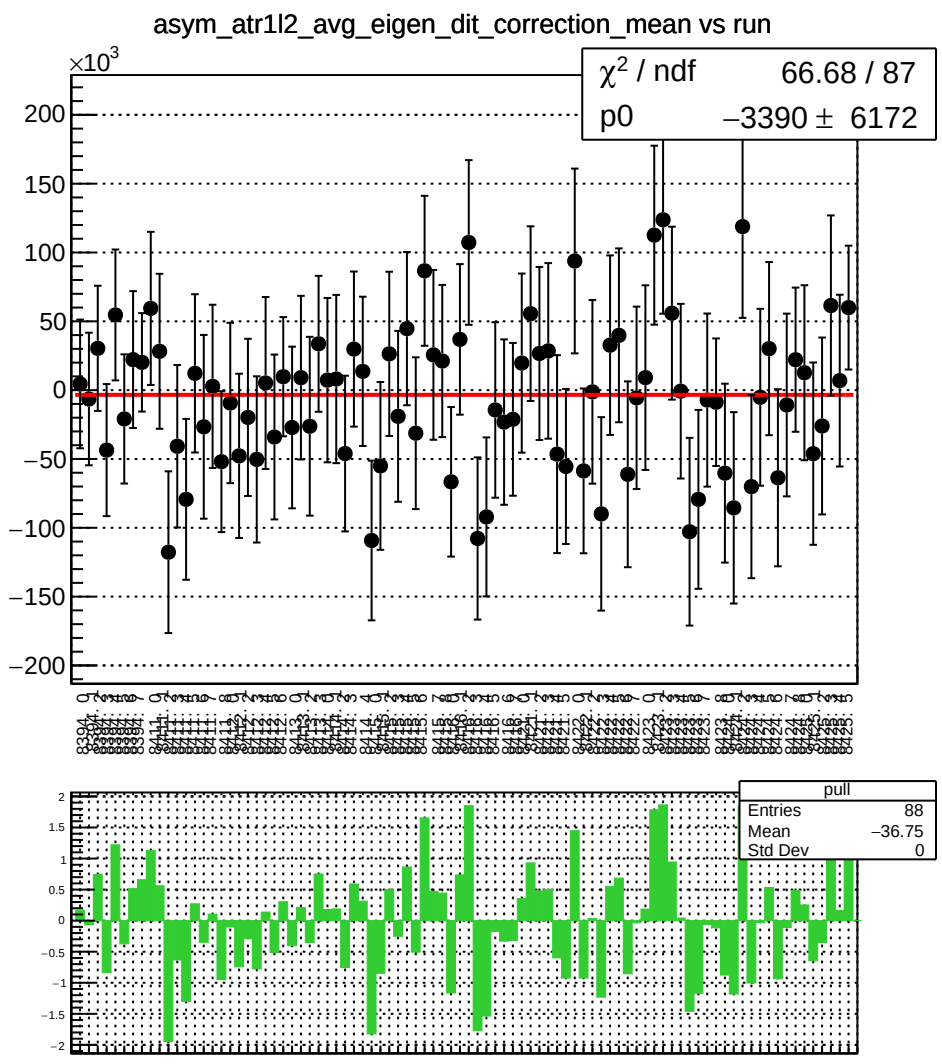

pull1D
Entries 88
Mean −0.01772
Std Dev 0.8703

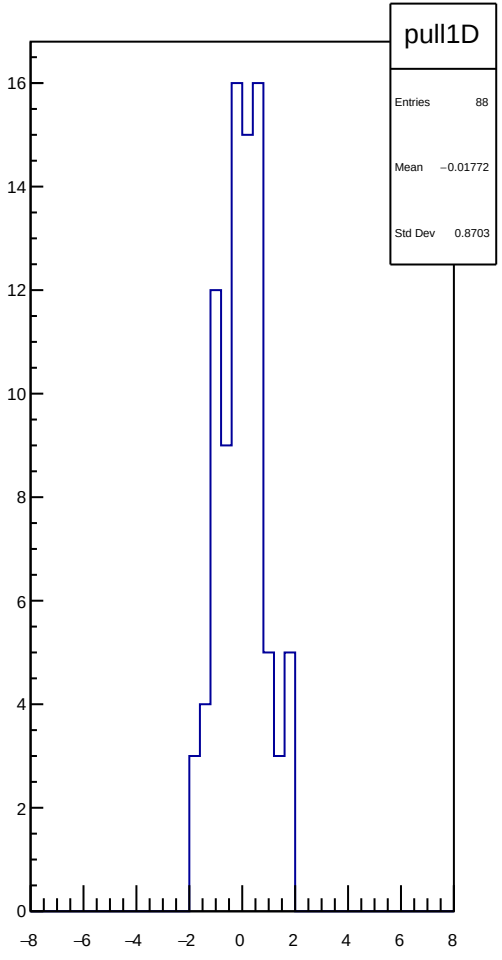

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 1.837e+04 / 87
p0 5647 ± 4.364
7000
6500
6000
5500
5000
4500

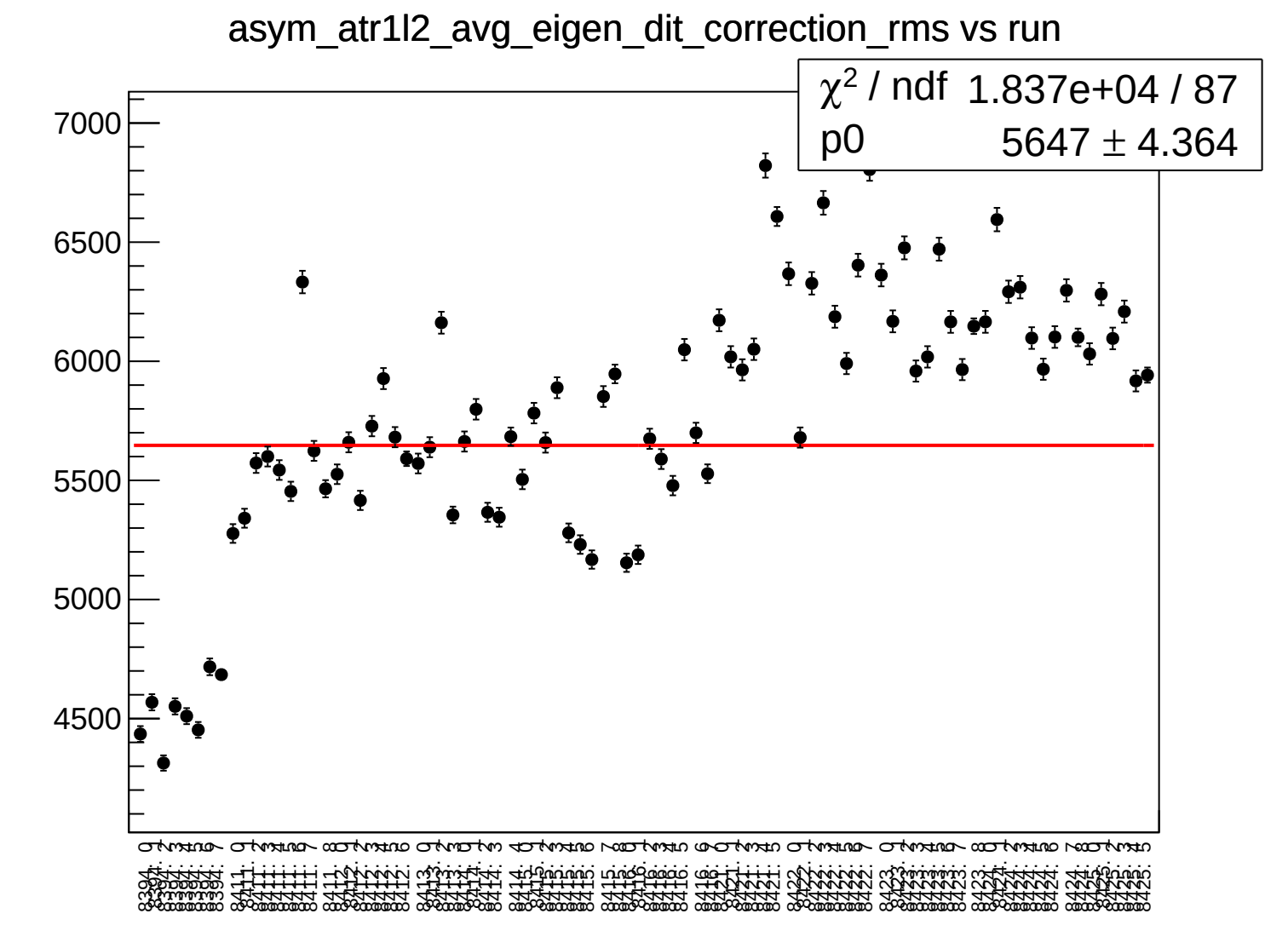

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 80.83 / 87
p0 −1627 ± 1931
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 294.2
Std Dev 0
2
1
0
−1
−2

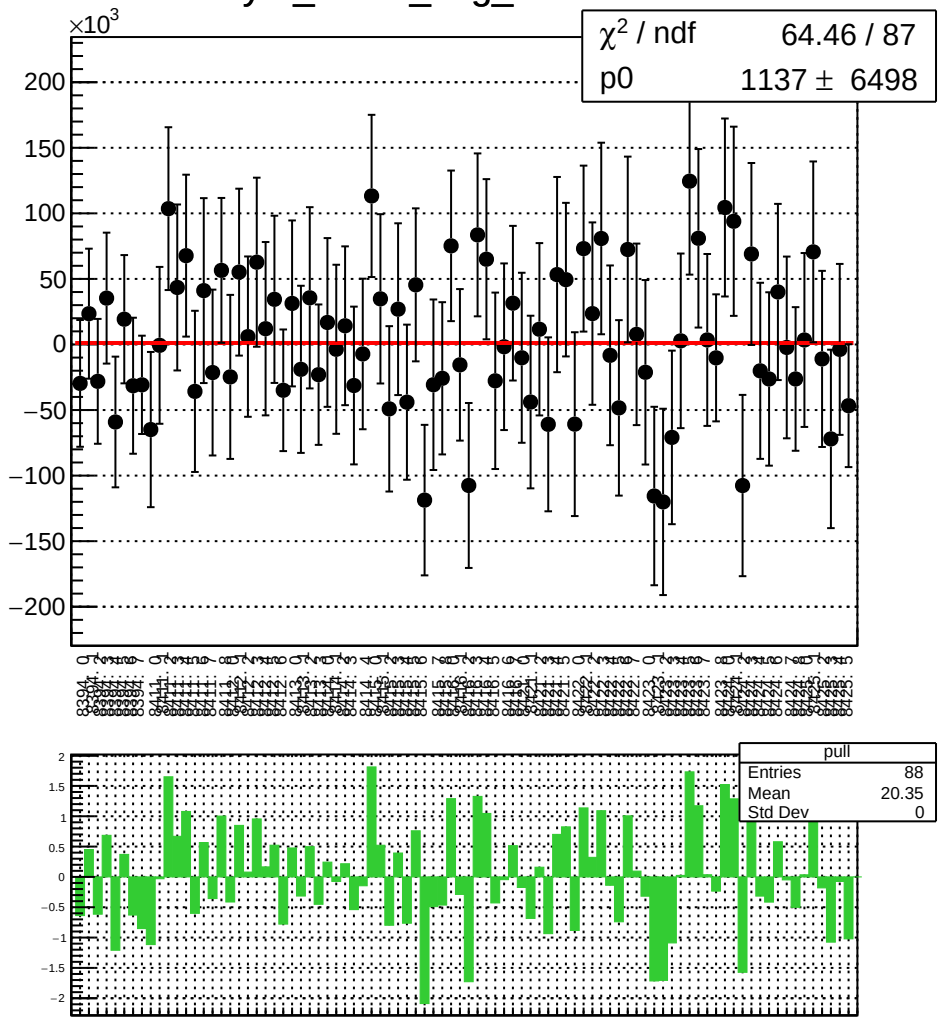

pull1D
Entries 88
Mean 0.009972
Std Dev 0.9584
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

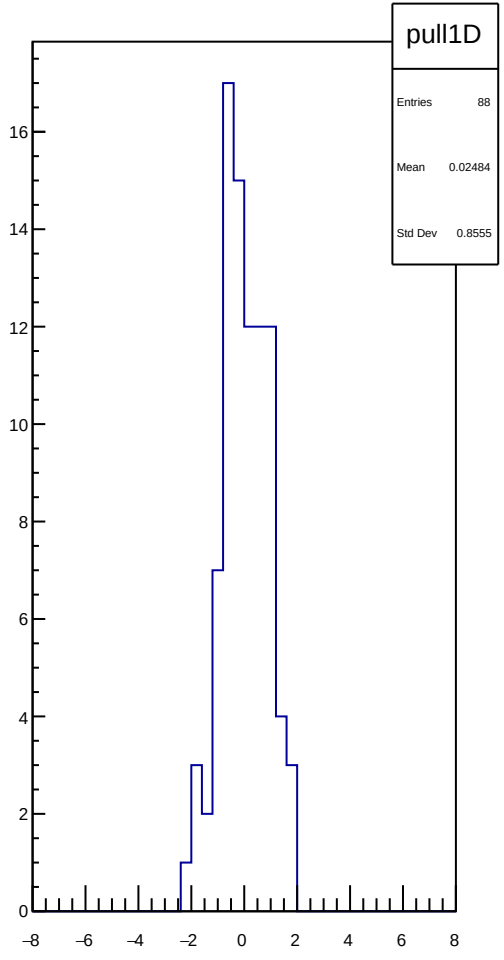

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 98.53 / 87
p0 1777 ± 1.366
1820
1800
1780
1760
1740
1720

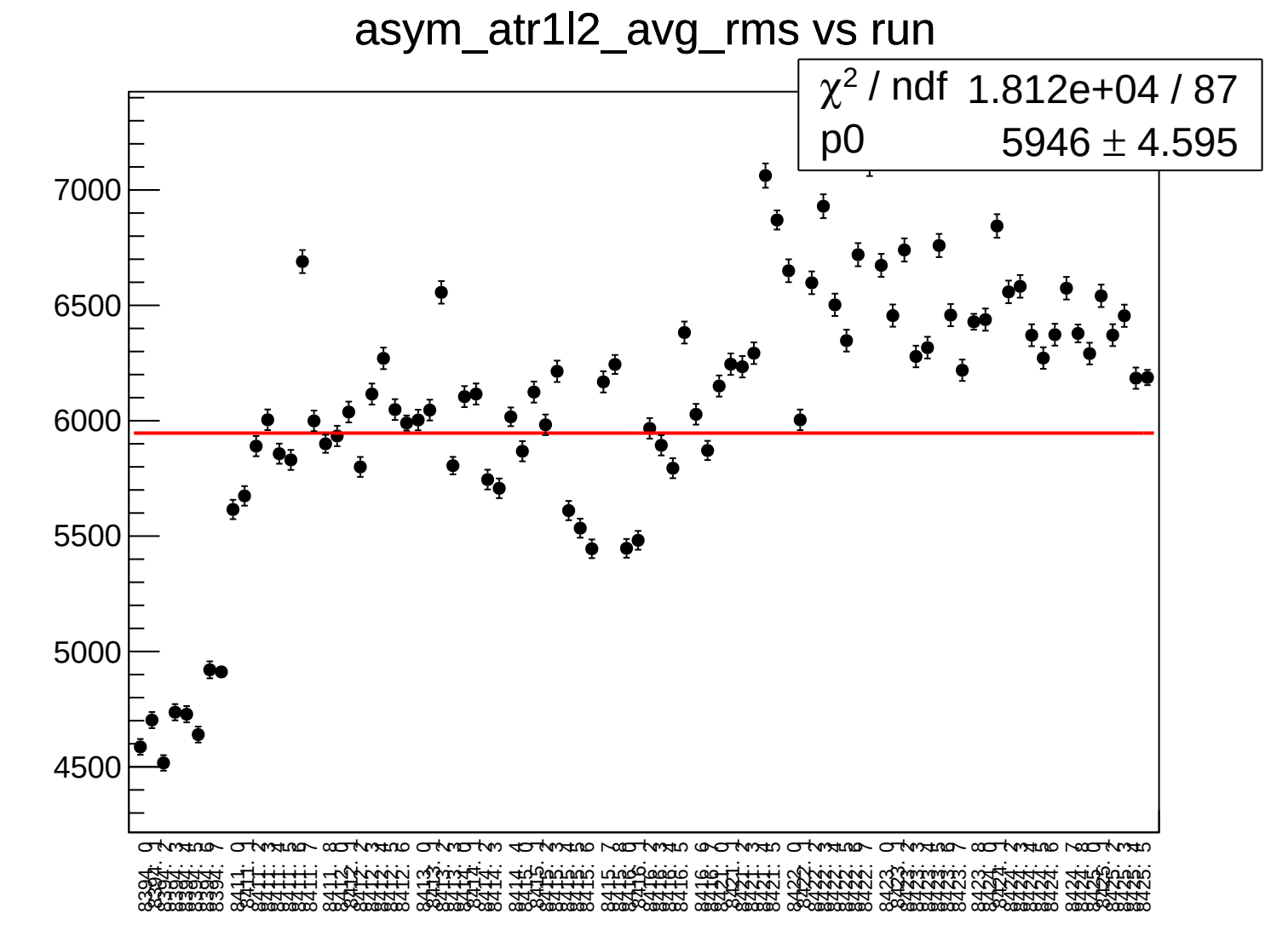

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 66.68 / 87
p0 −3390 ± 6172
pull
Entries 88
Mean −36.75
Std Dev 0

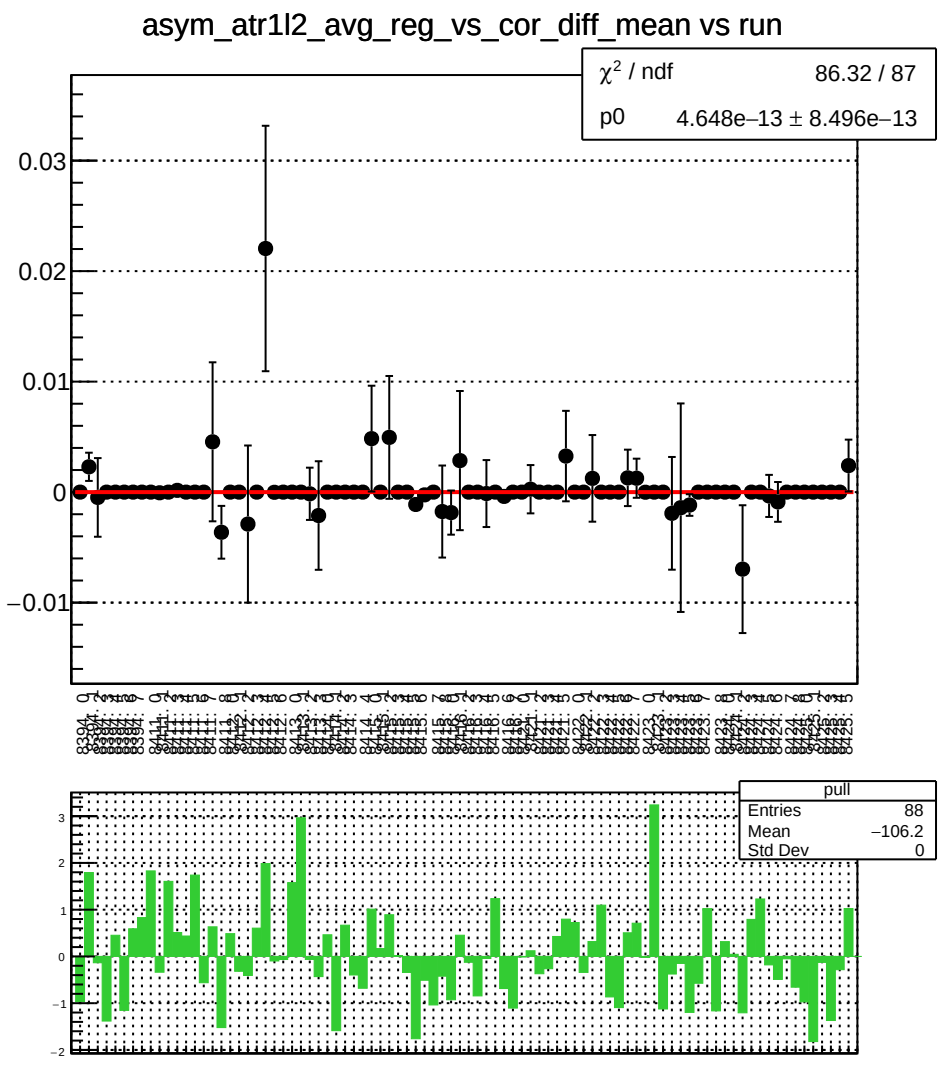

pull1D
Entries 88
Mean −0.01772
Std Dev 0.8703

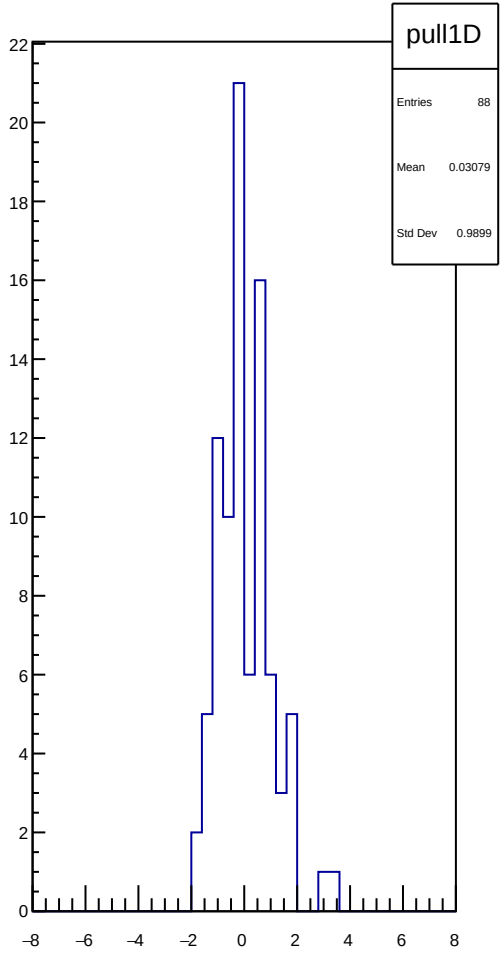

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.837e+04 / 87
p0 5647 ± 4.364
7000
6500
6000
5500
5000
4500

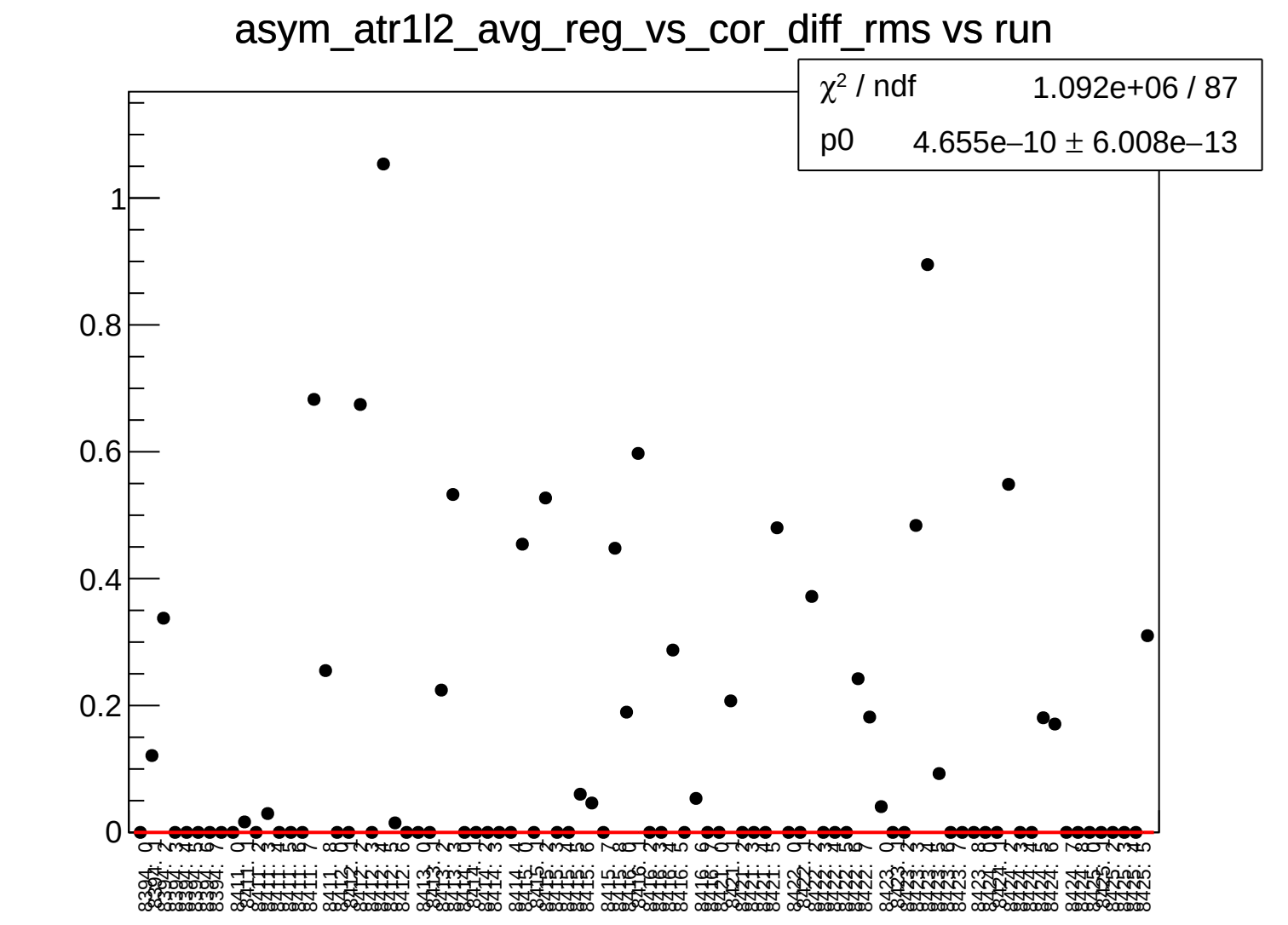

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 64.46 / 87
p0 1137 ± 6498
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 20.35
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

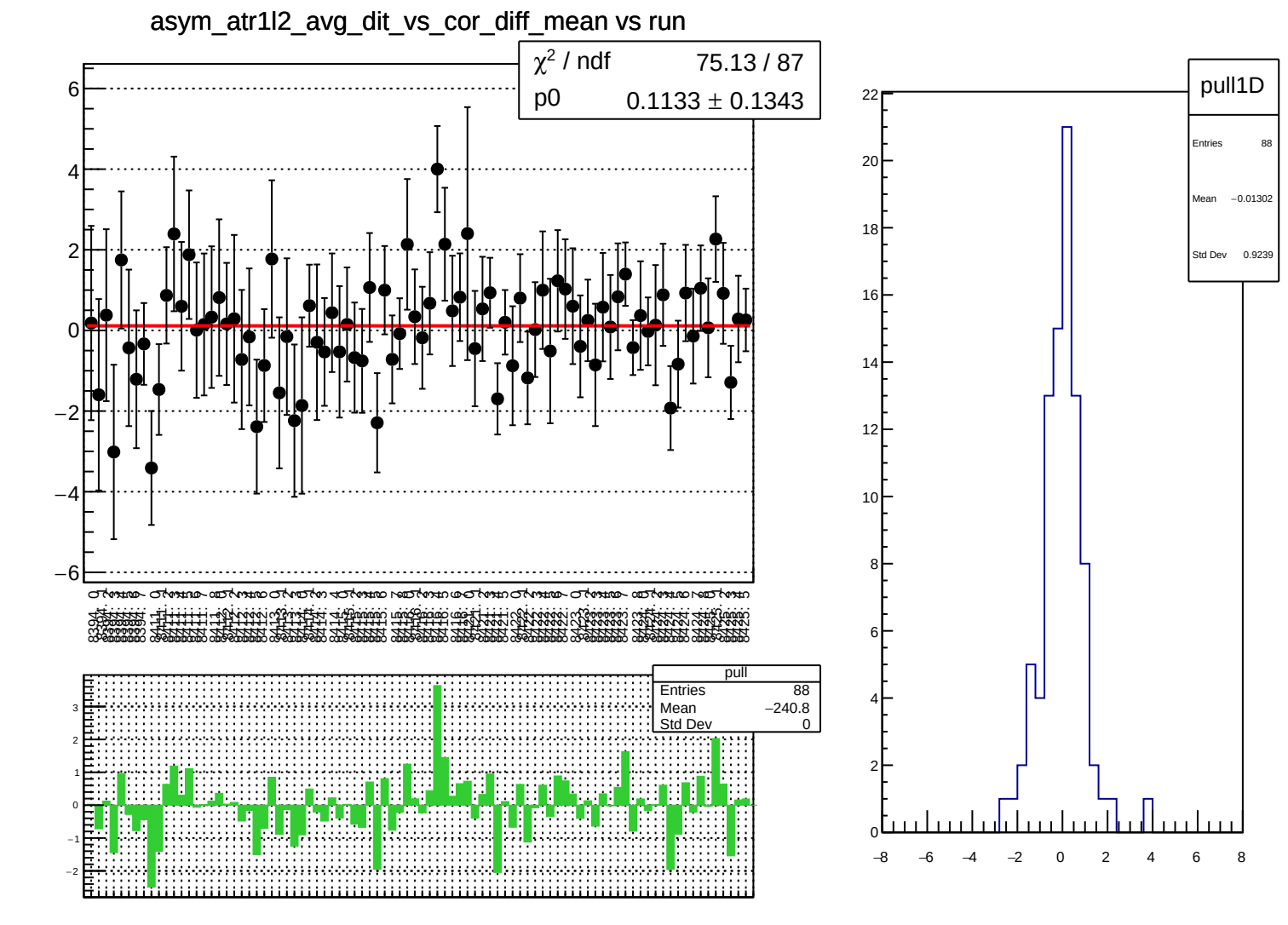

pull1D
Entries 88
Mean 0.02484
Std Dev 0.8555
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

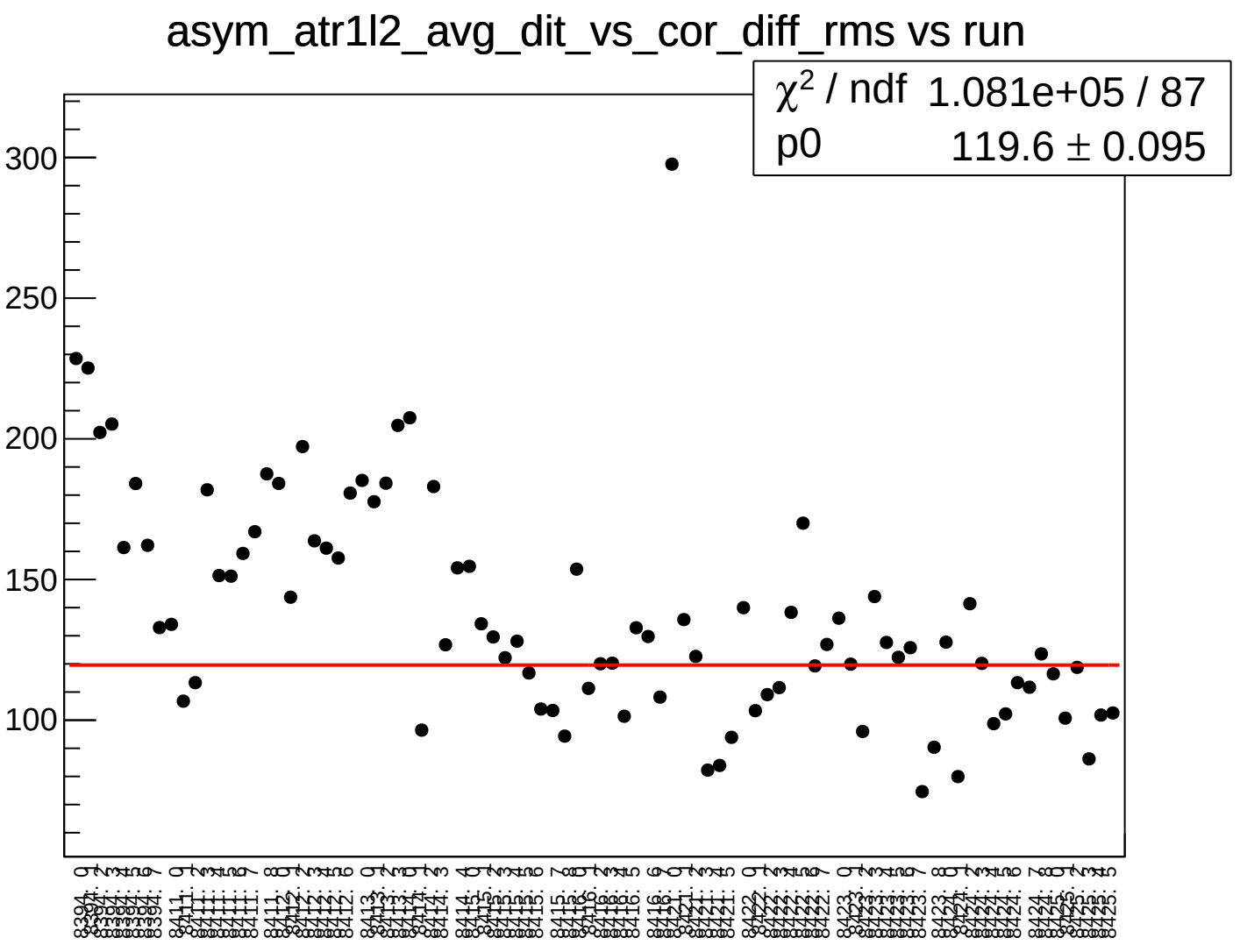

asym_atr1l2_avg_rms vs run
χ² / ndf 1.812e+04 / 87
p0 5946 ± 4.595
7000
6500
6000
5500
5000
4500

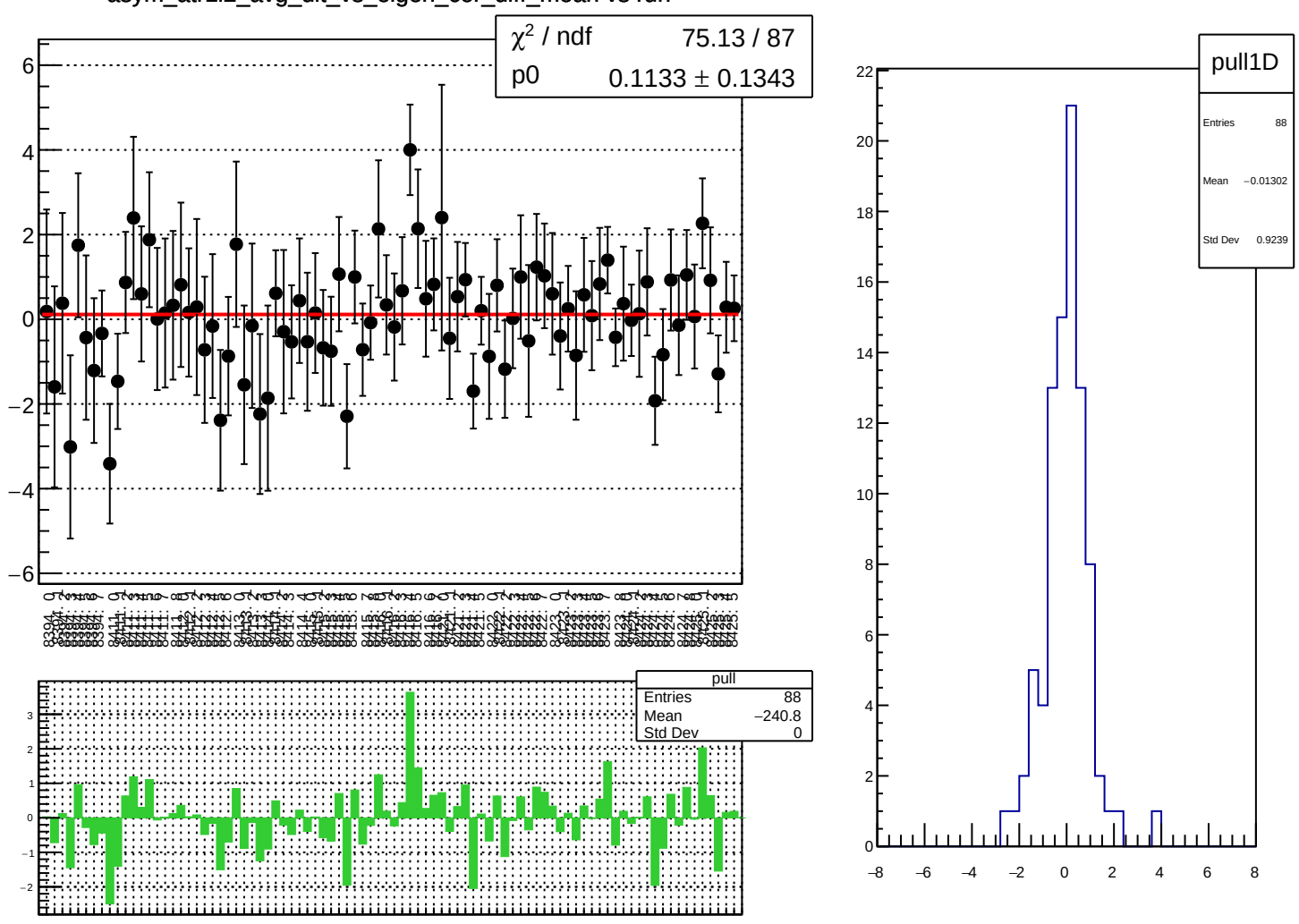

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.32 / 87
p0 4.648e−13 ± 8.496e−13
0.03
0.02
0.01
0
−0.01
pull
Entries 88
Mean −106.2
Std Dev 0
3
2
1
0
−1
−2

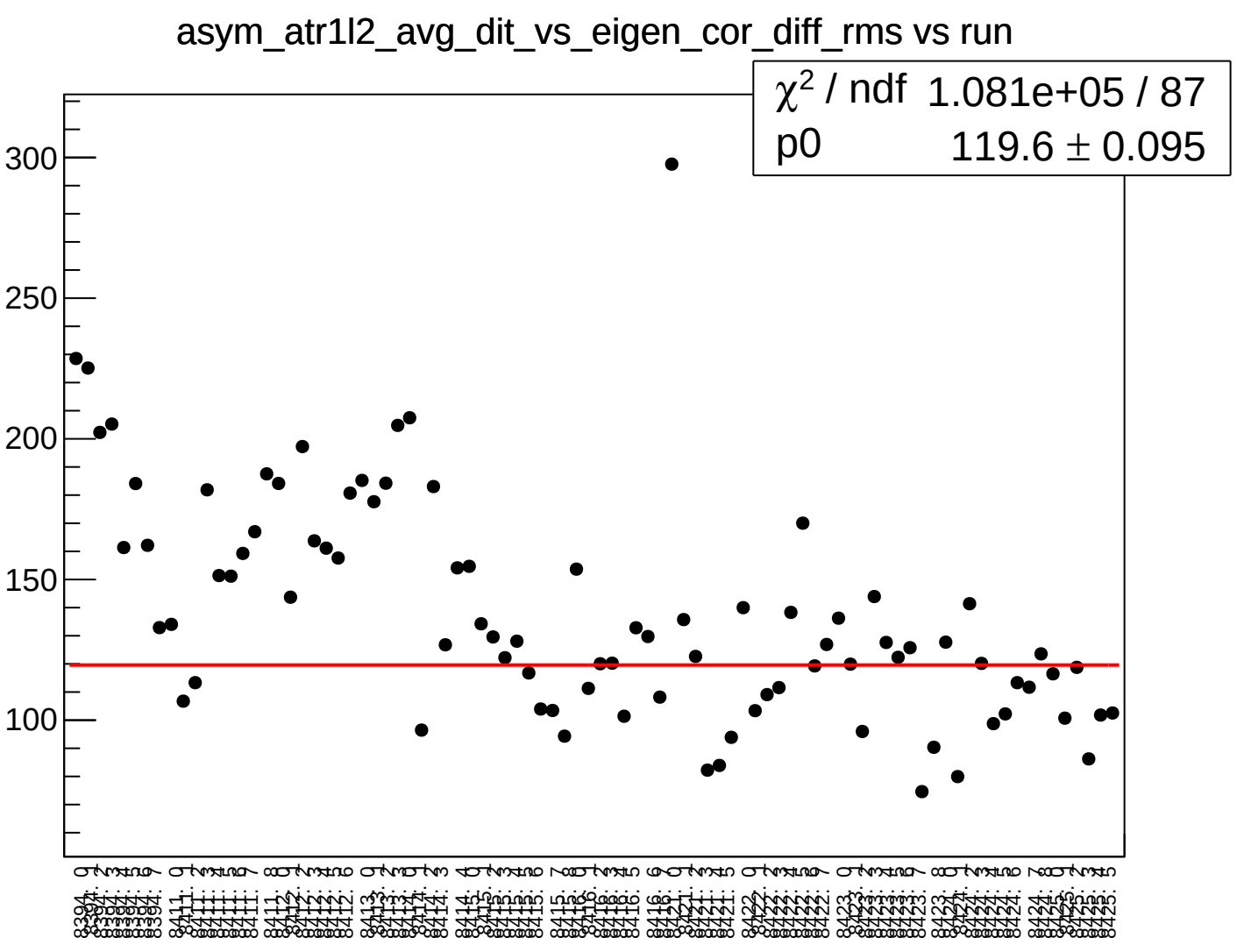

pull1D
Entries 88
Mean 0.03079
Std Dev 0.9899
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

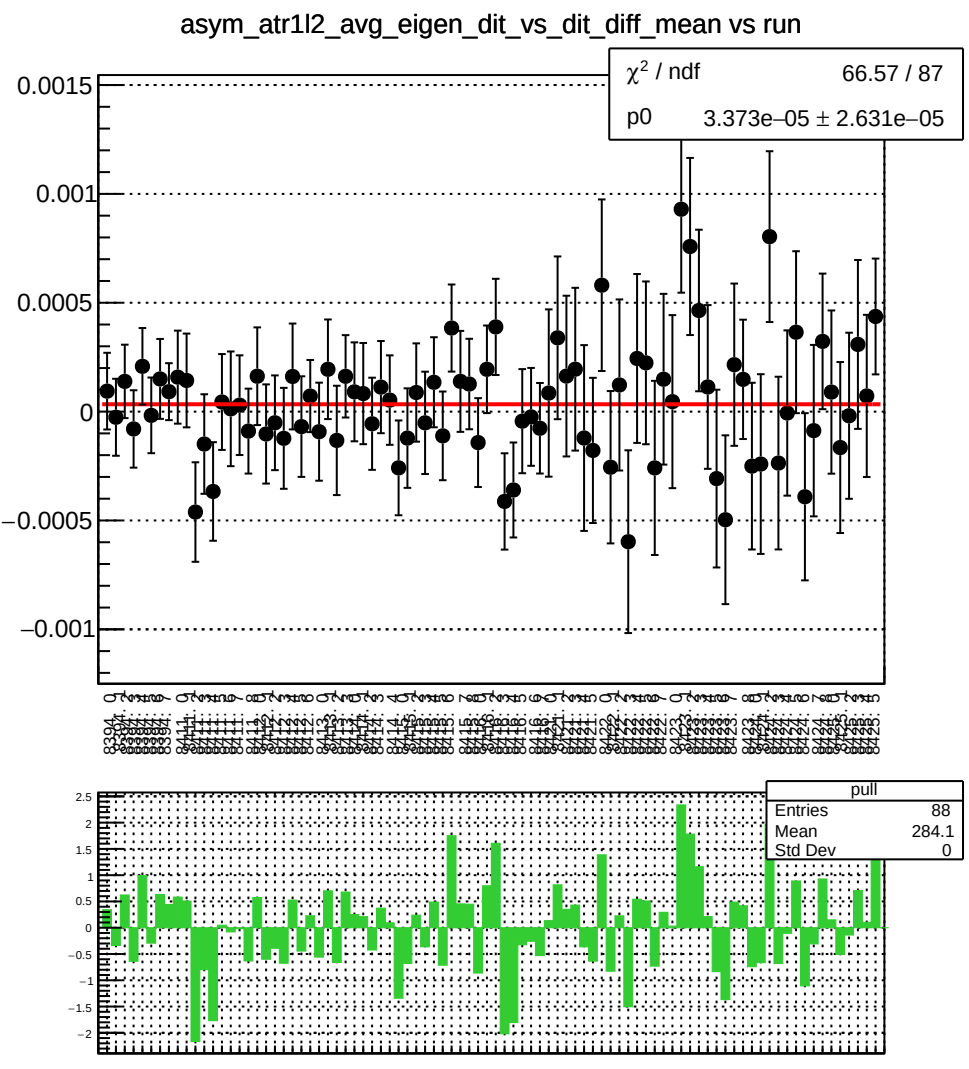

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.092e+06 / 87
p0 4.655e−10 ± 6.008e−13
1
0.8
0.6
0.4
0.2
0

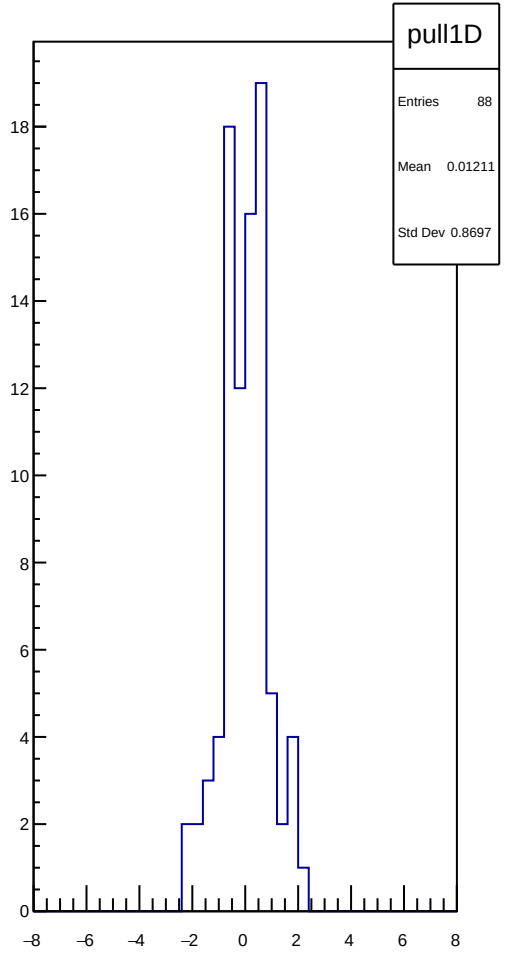

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.13 / 87
p0 0.1133 ± 0.1343
pull
Entries 88
Mean −240.8
Std Dev 0
pull1D
Entries 88
Mean −0.01302
Std Dev 0.9239

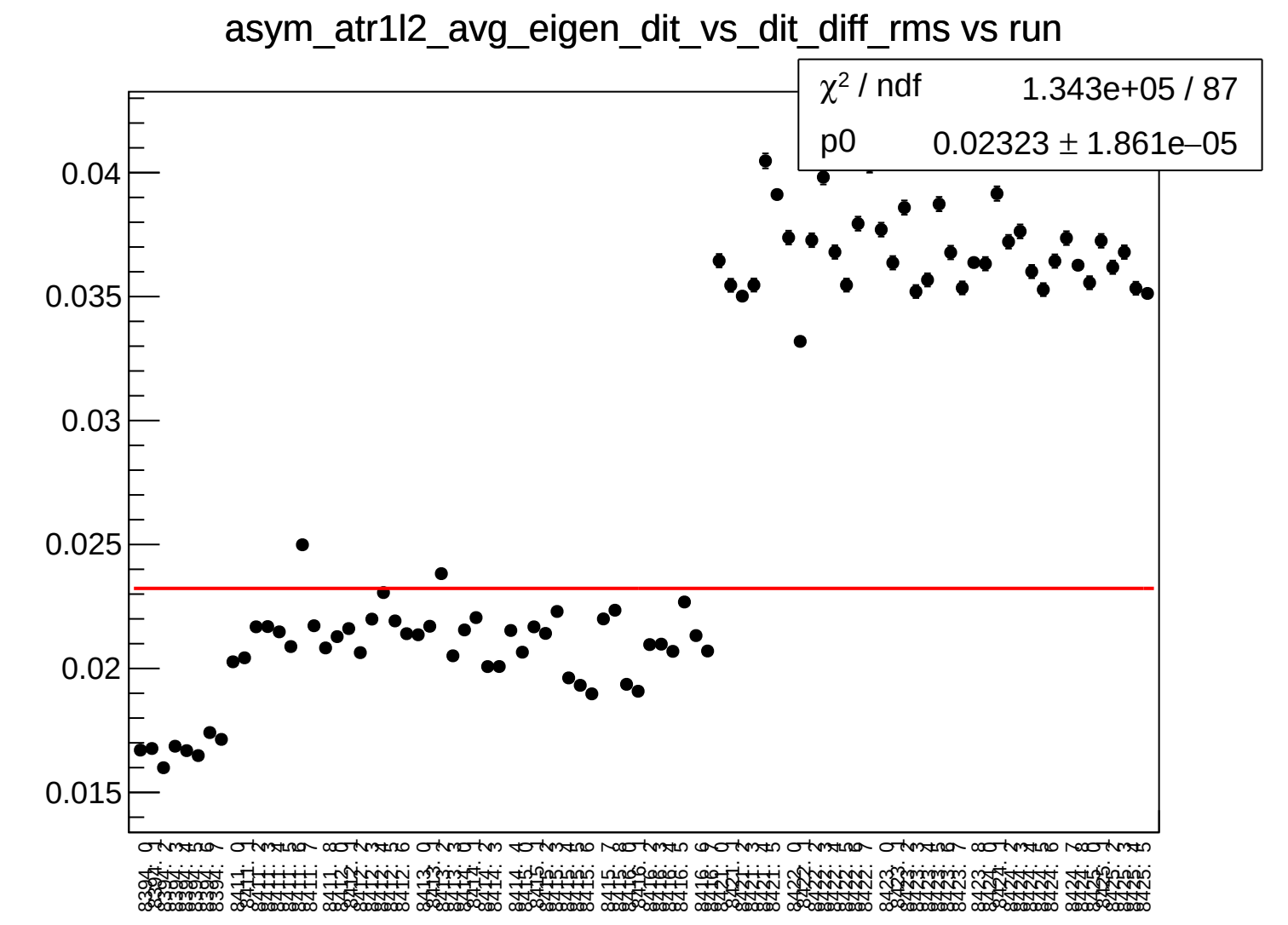

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.081e+05 / 87
p0 119.6 ± 0.095
300
250
200
150
100

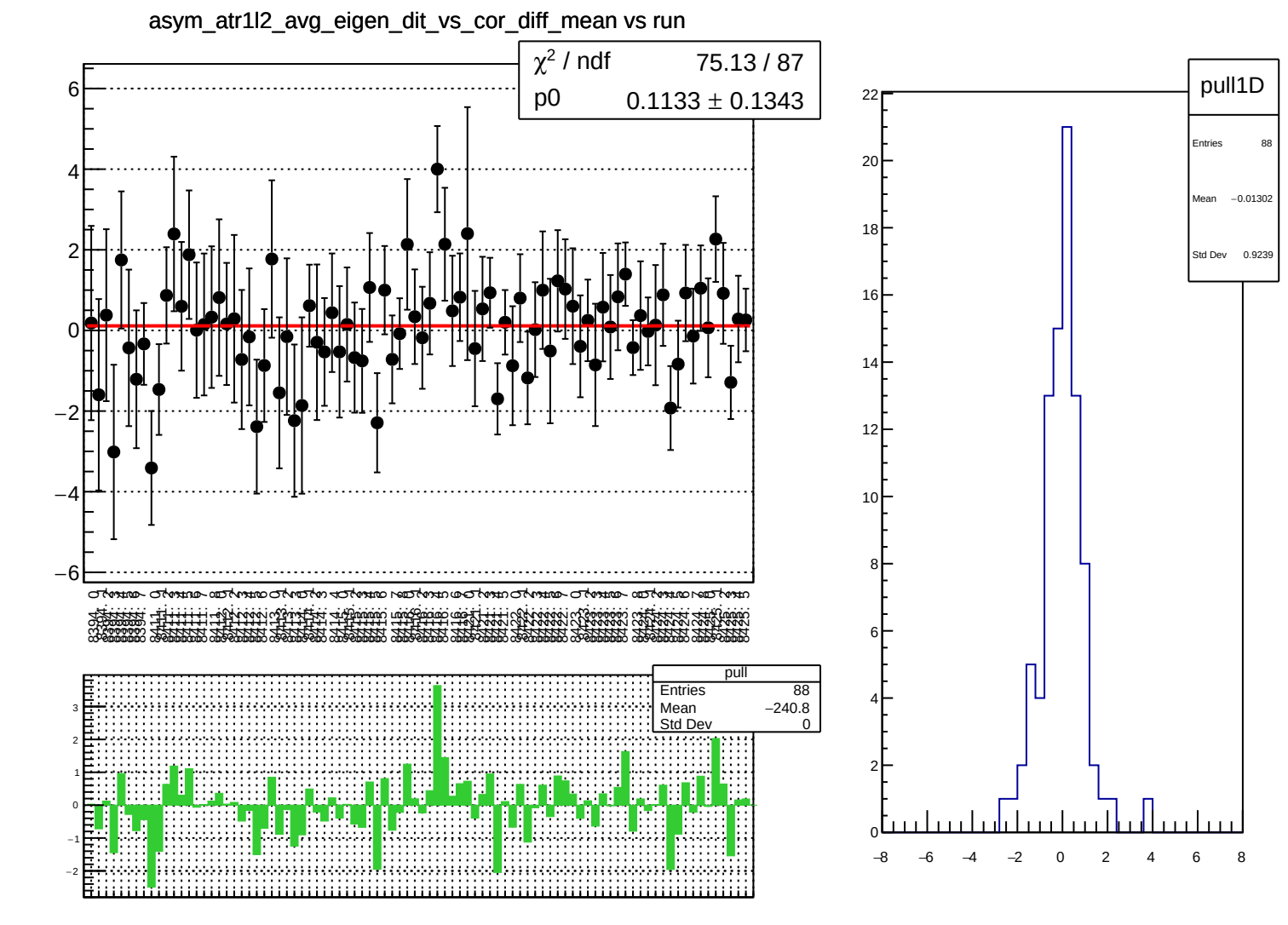

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.13 / 87
p0 0.1133 ± 0.1343
pull
Entries 88
Mean −240.8
Std Dev 0
pull1D
Entries 88
Mean −0.01302
Std Dev 0.9239

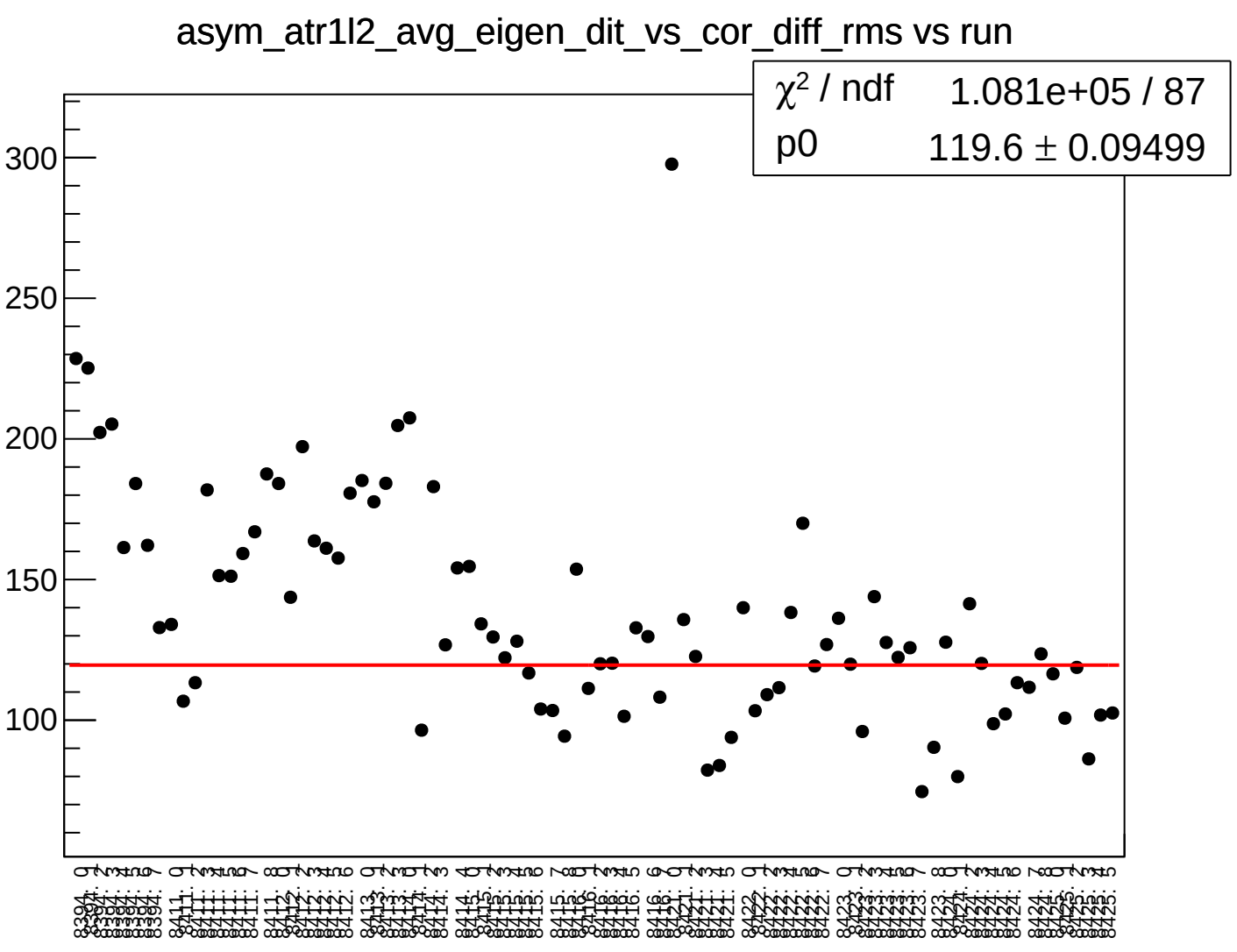

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.081e+05 / 87
p0 119.6 ± 0.095
300
250
200
150
100

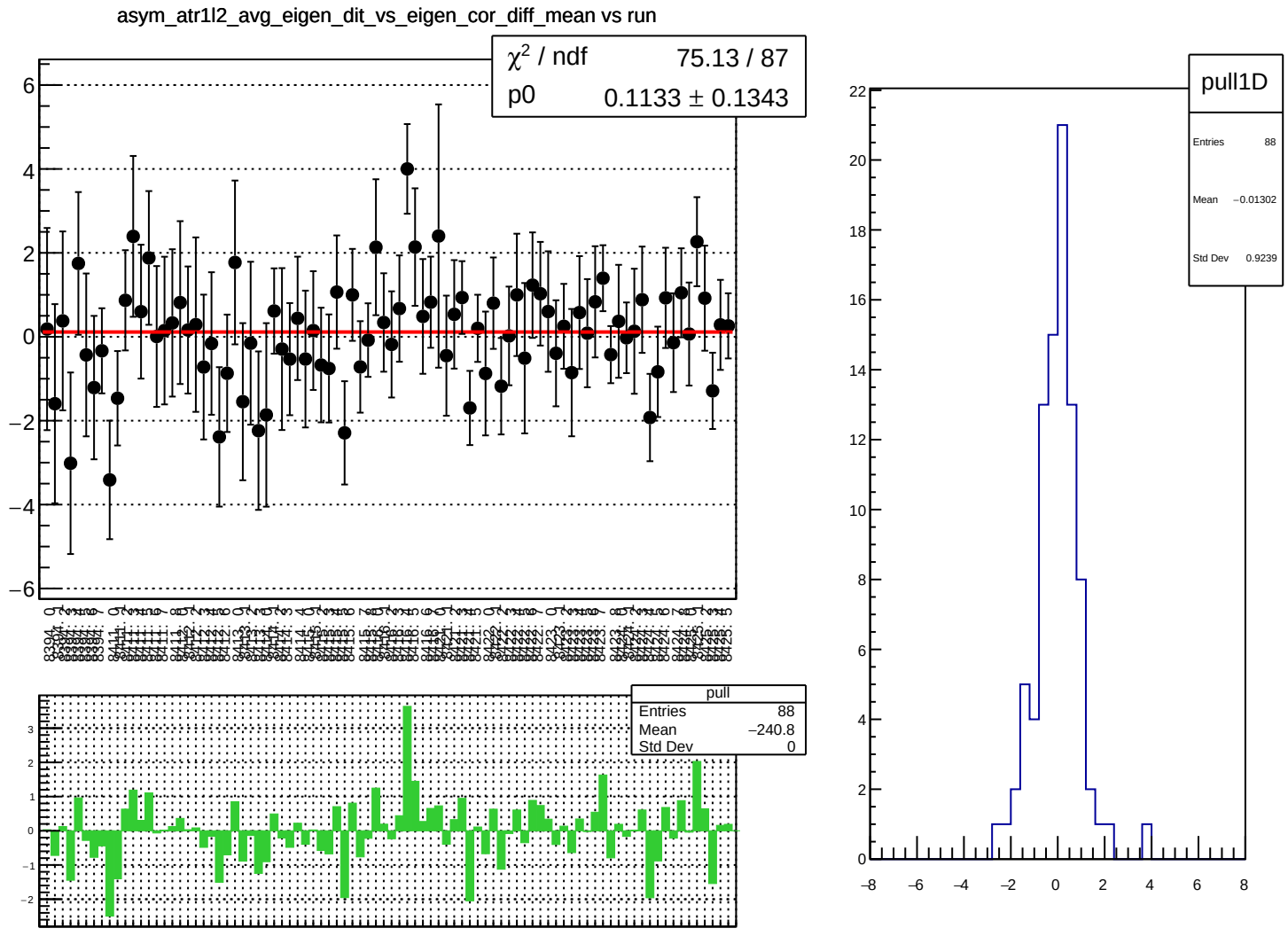

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 66.57 / 87
p0 3.373e−05 ± 2.631e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean 284.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

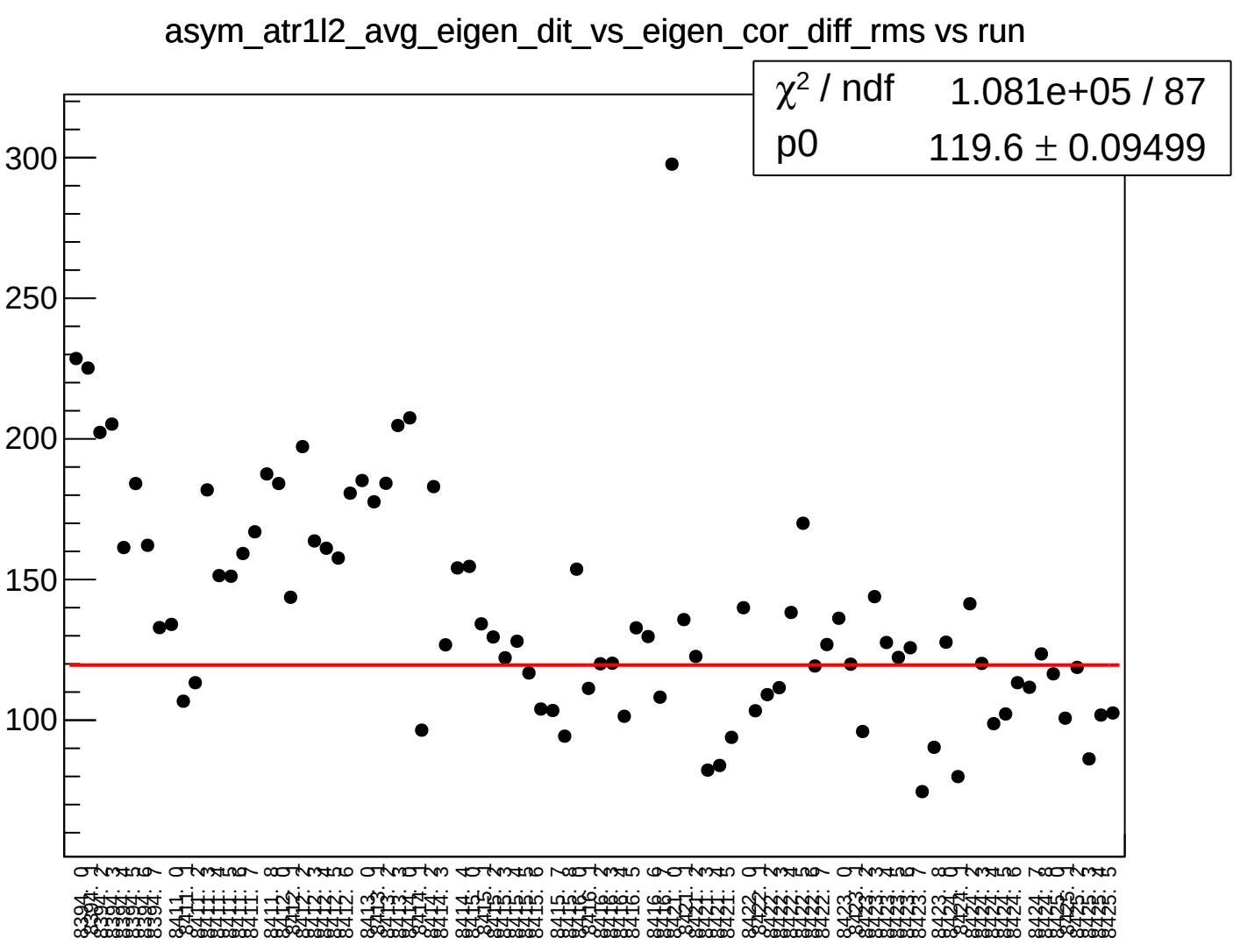

pull1D
Entries 88
Mean 0.01211
Std Dev 0.8697
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

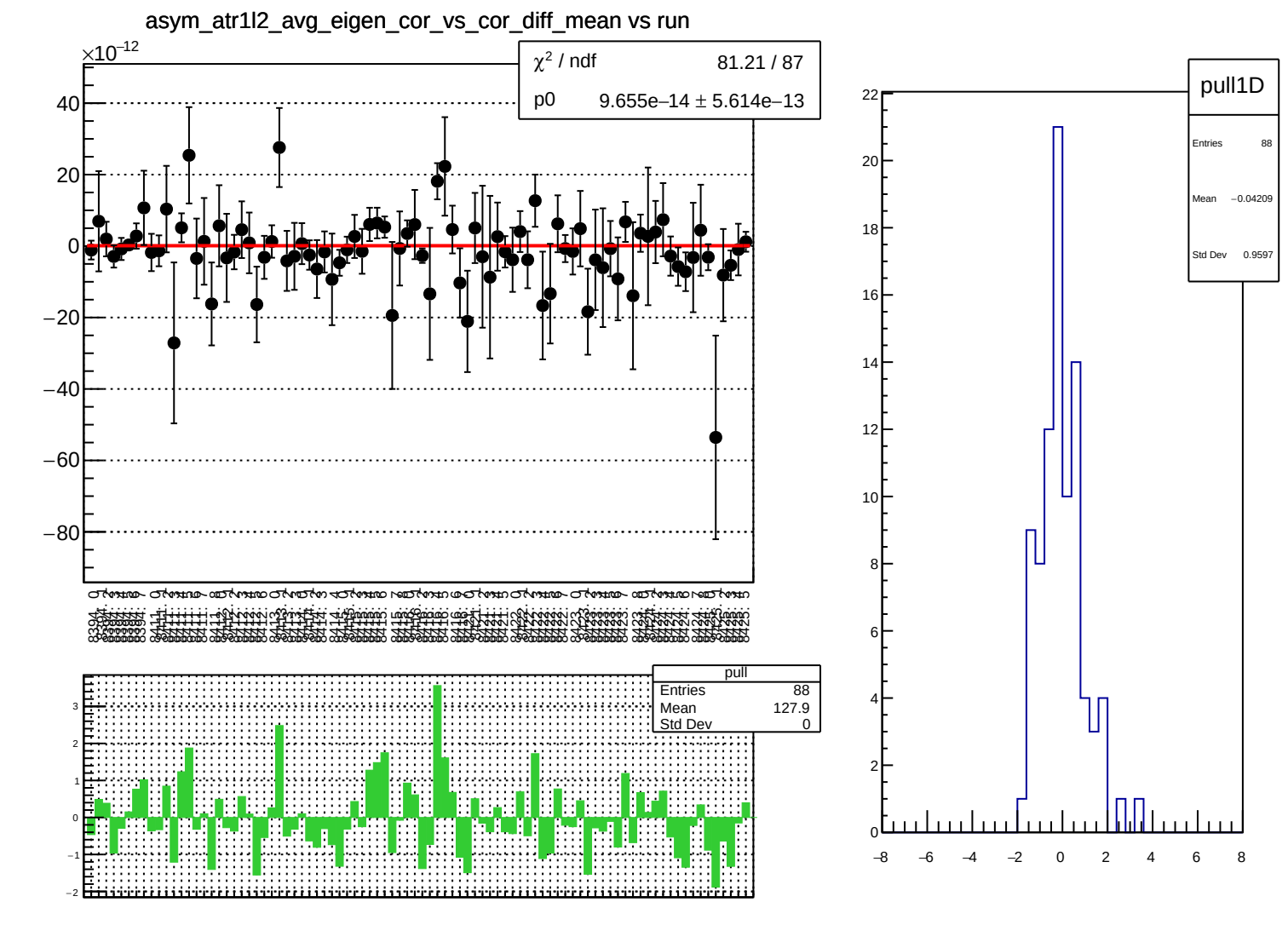

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.343e+05 / 87
p0 0.02323 ± 1.861e−05
0.04
0.035
0.03
0.025
0.02
0.015

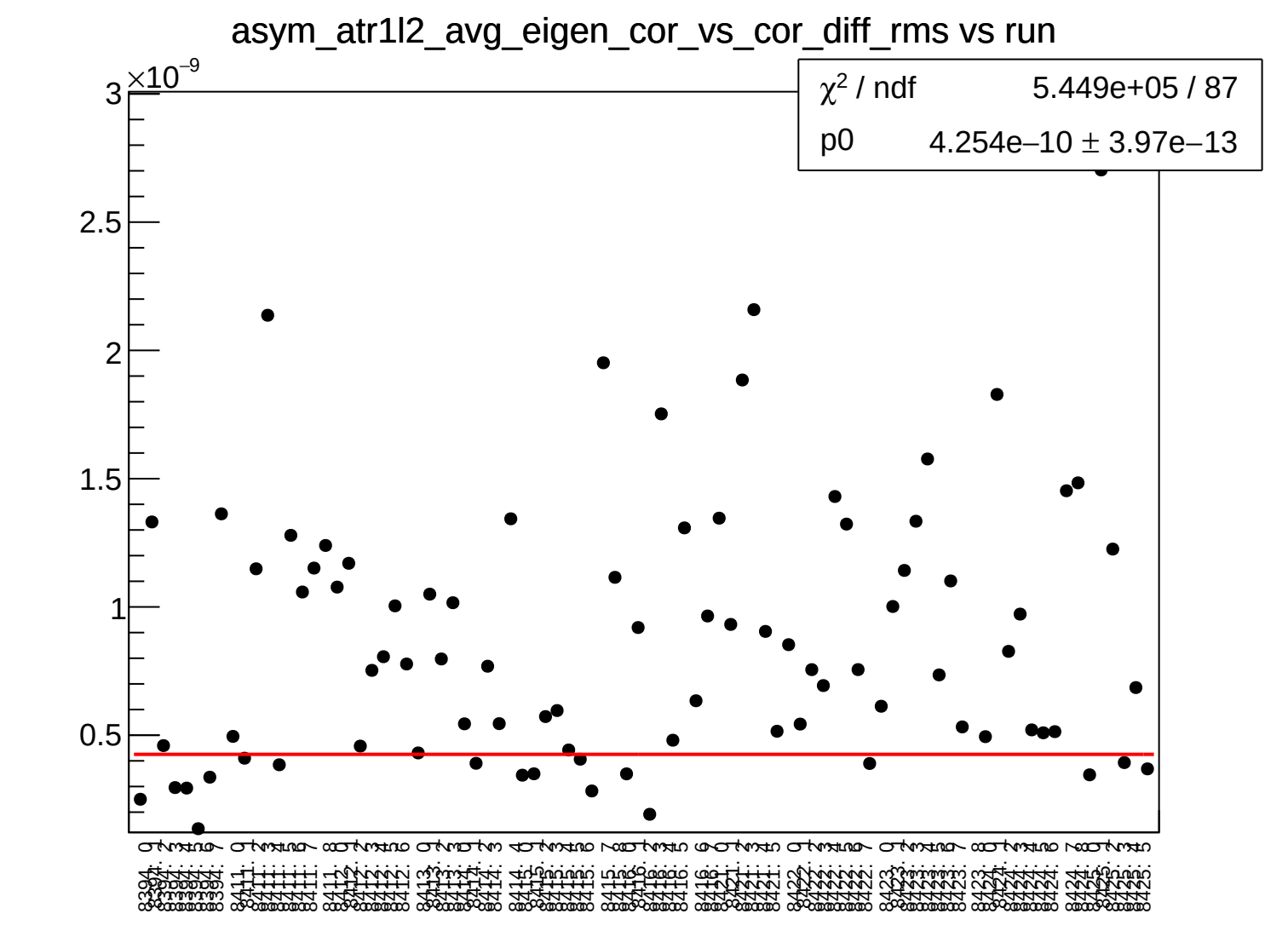

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.13 / 87
p0 0.1133 ± 0.1343
pull
Entries 88
Mean −240.8
Std Dev 0
pull1D
Entries 88
Mean −0.01302
Std Dev 0.9239

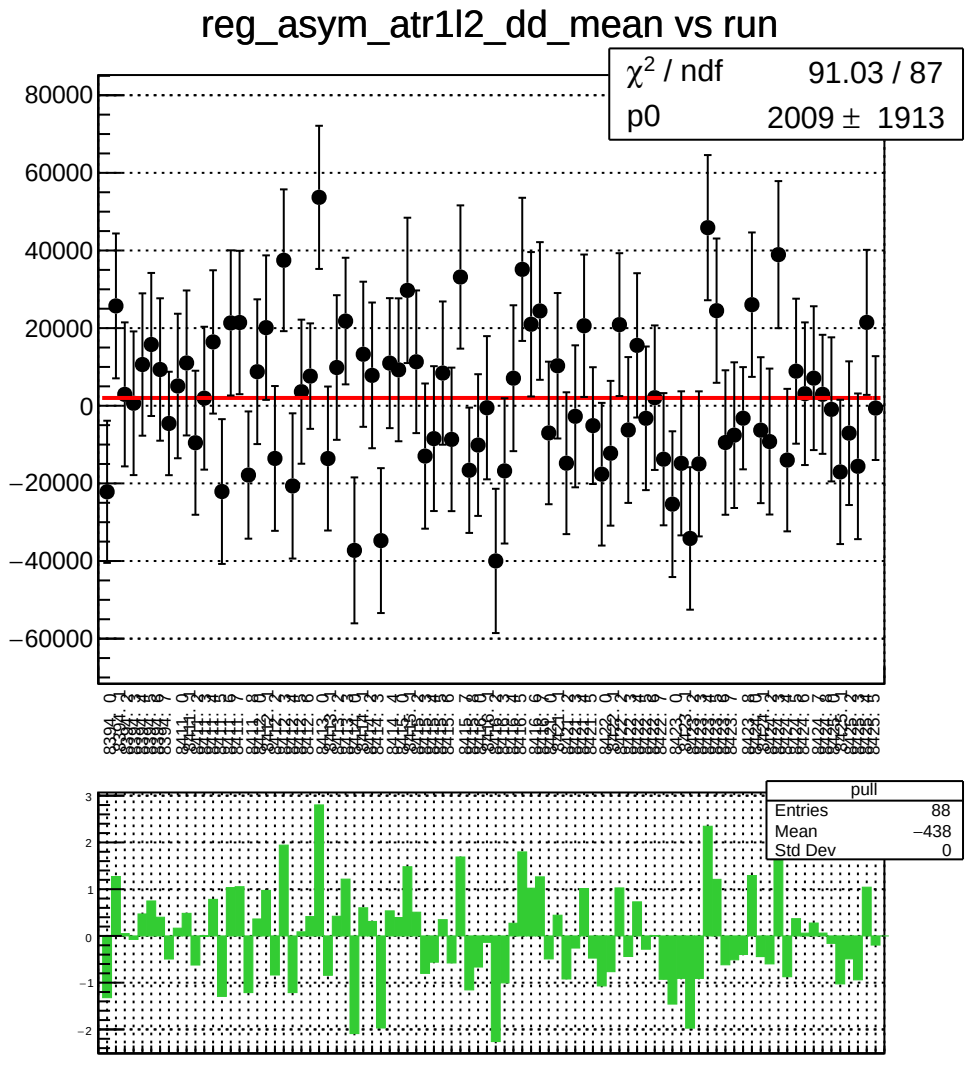

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.081e+05 / 87
p0 119.6 ± 0.09499
300
250
200
150
100

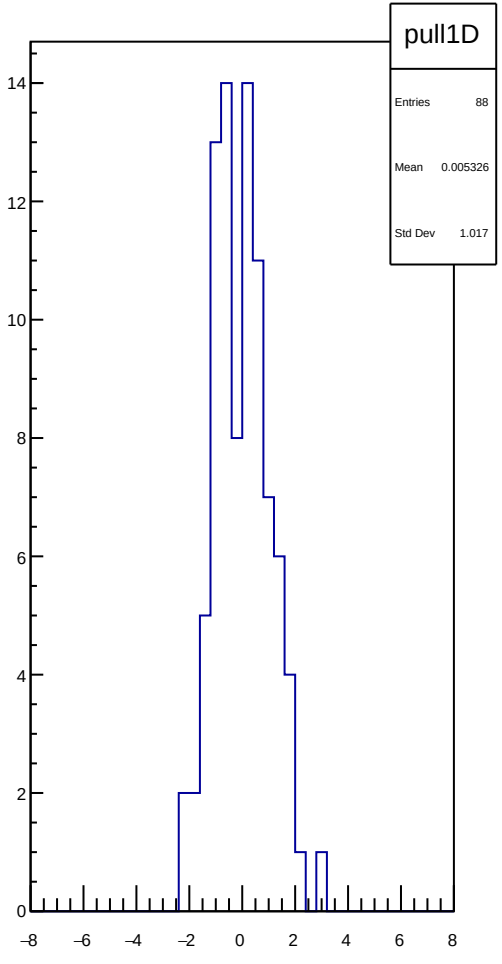

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.13 / 87
p0 0.1133 ± 0.1343
pull
Entries 88
Mean −240.8
Std Dev 0
pull1D
Entries 88
Mean −0.01302
Std Dev 0.9239

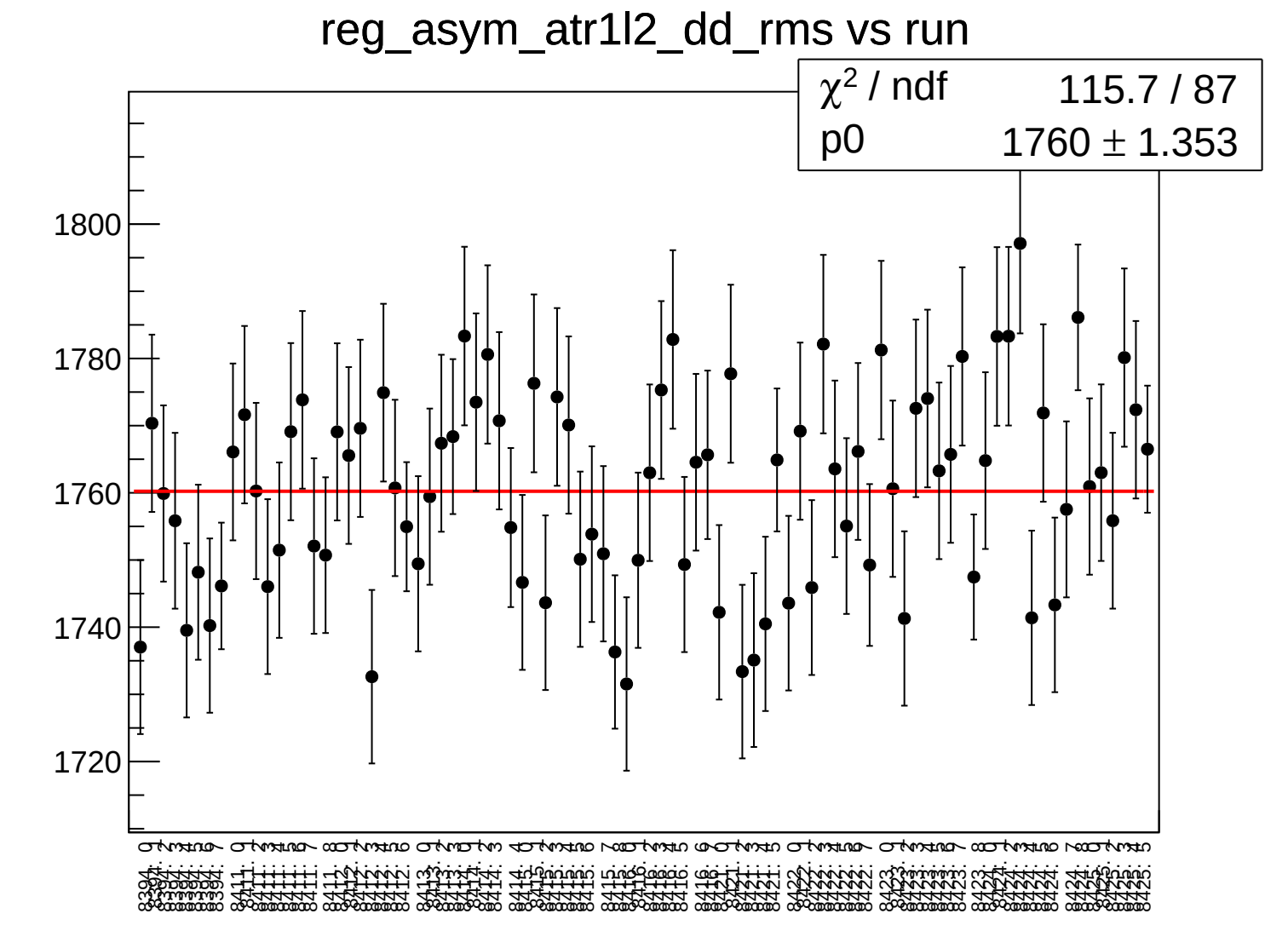

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.081e+05 / 87
p0 119.6 ± 0.09499
300
250
200
150
100

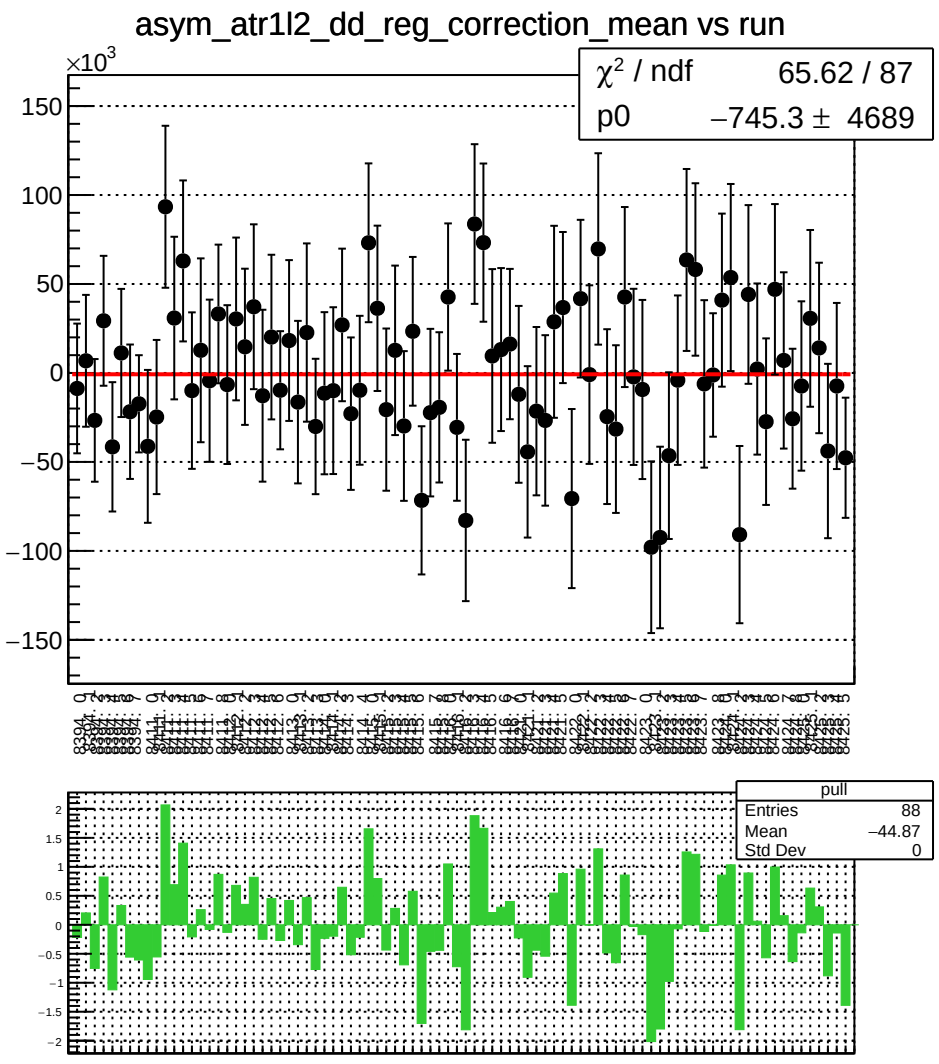

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.21 / 87
p0 9.655e−14 ± 5.614e−13
pull
Entries 88
Mean 127.9
Std Dev 0
pull1D
Entries 88
Mean −0.04209
Std Dev 0.9597

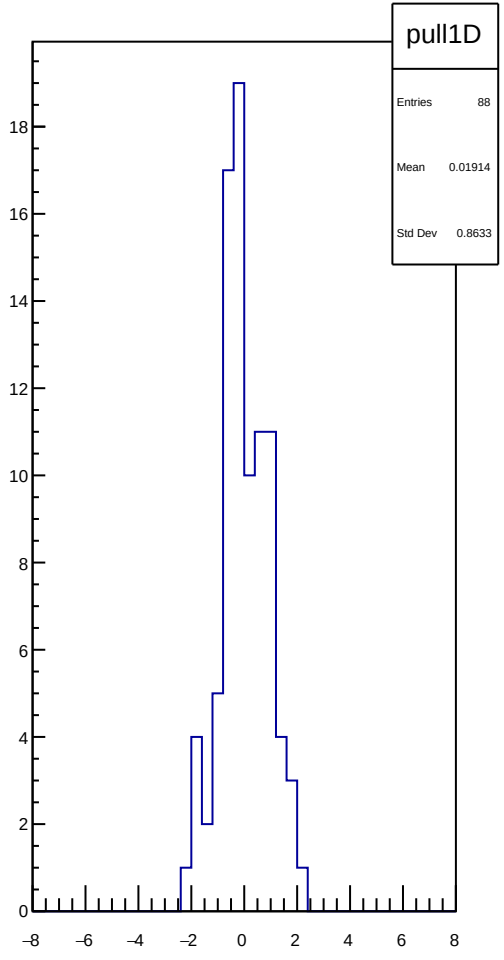

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
χ^2 / ndf 5.449e+05 / 87
p0 4.254e−10 ± 3.97e−13
×10⁻⁹
3
2.5
2
1.5
1
0.5

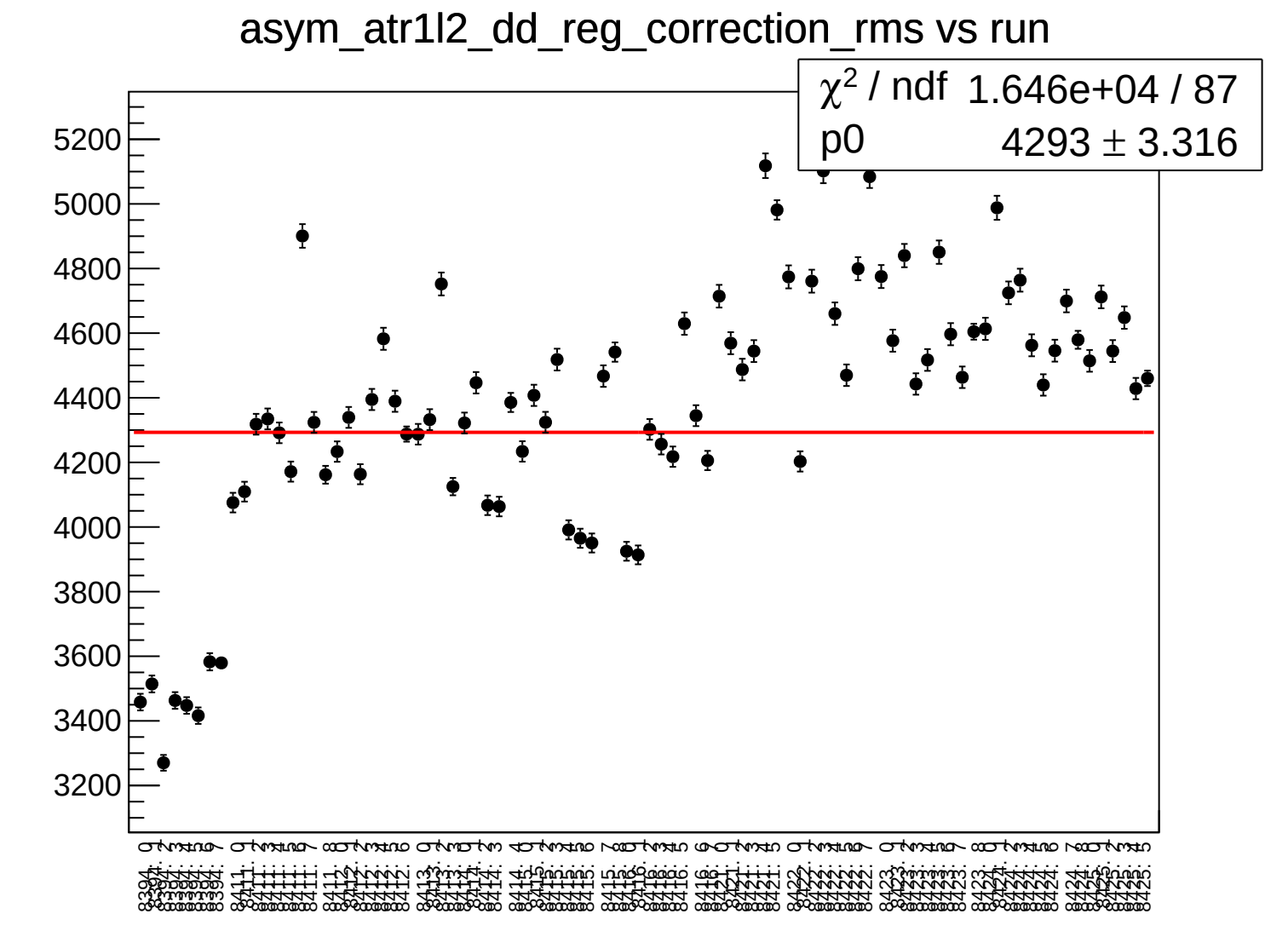

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 91.03 / 87
p0 2009 ± 1913
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −438
Std Dev 0
3
2
1
0
−1
−2

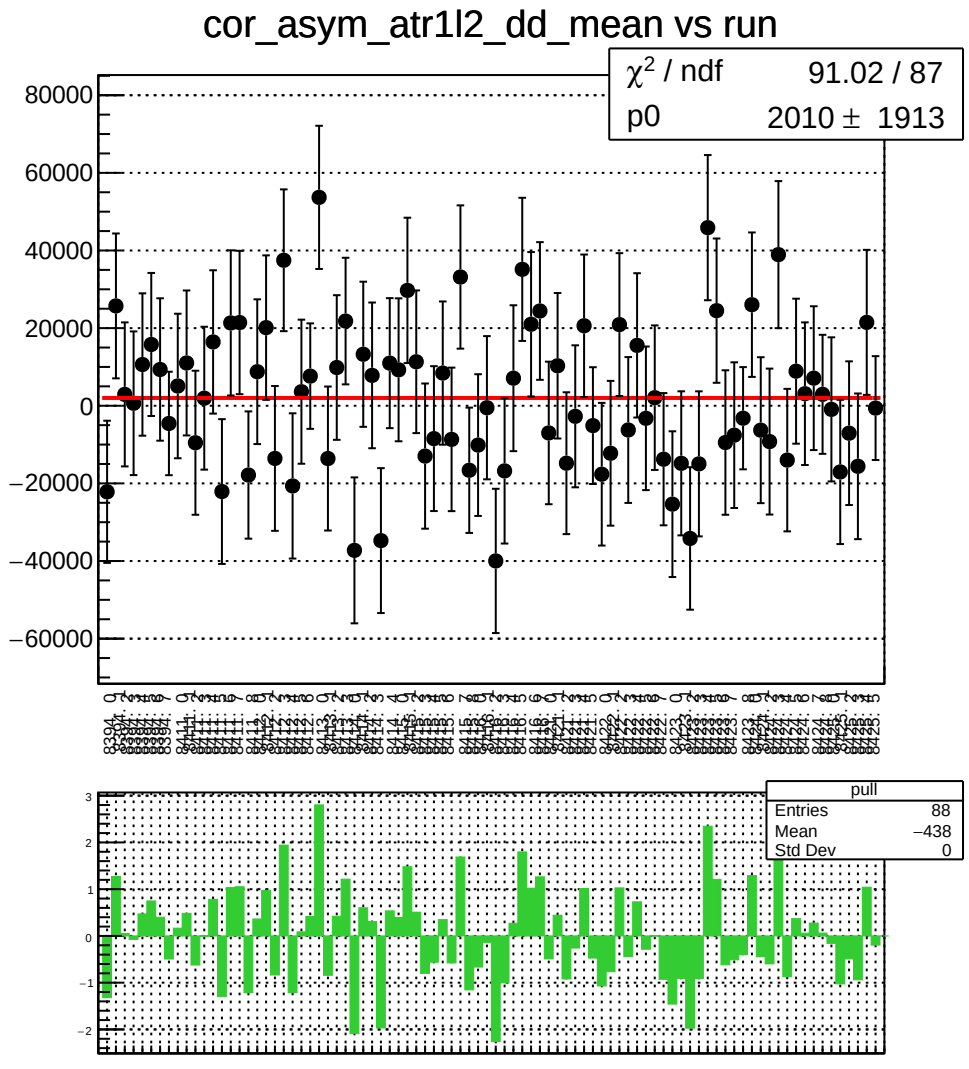

pull1D
Entries 88
Mean 0.005326
Std Dev 1.017
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

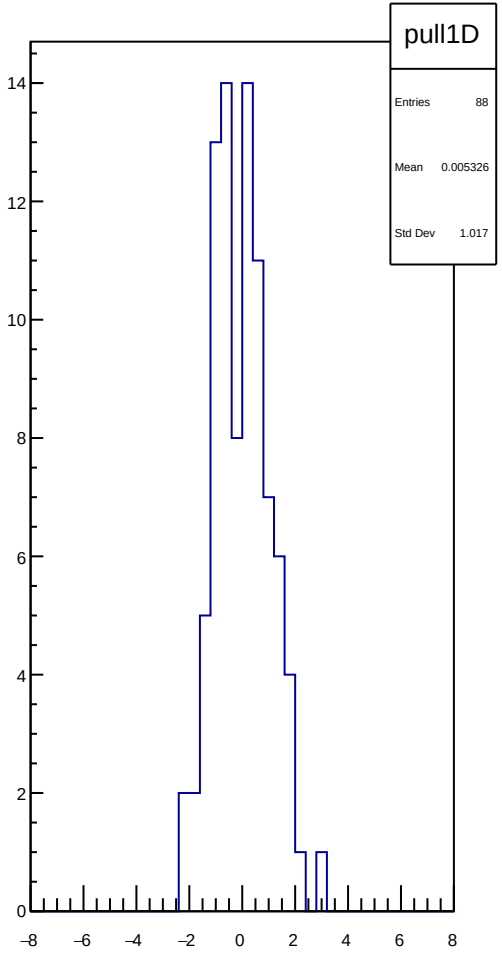

reg_asym_atr1l2_dd_rms vs run
χ^2 / ndf 115.7 / 87
p0 1760 ± 1.353
1800
1780
1760
1740
1720

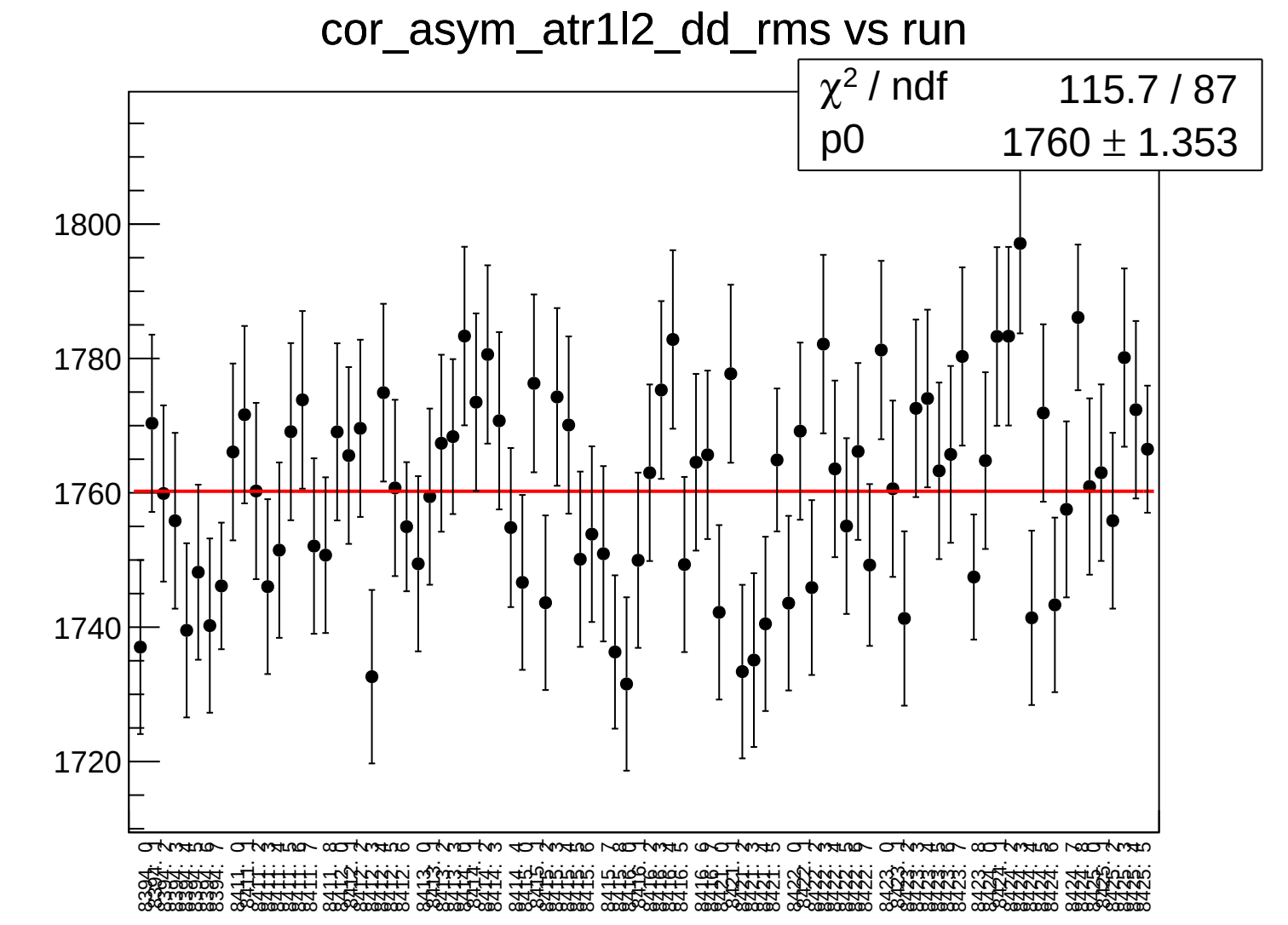

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 65.62 / 87
p0 −745.3 ± 4689
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −44.87
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

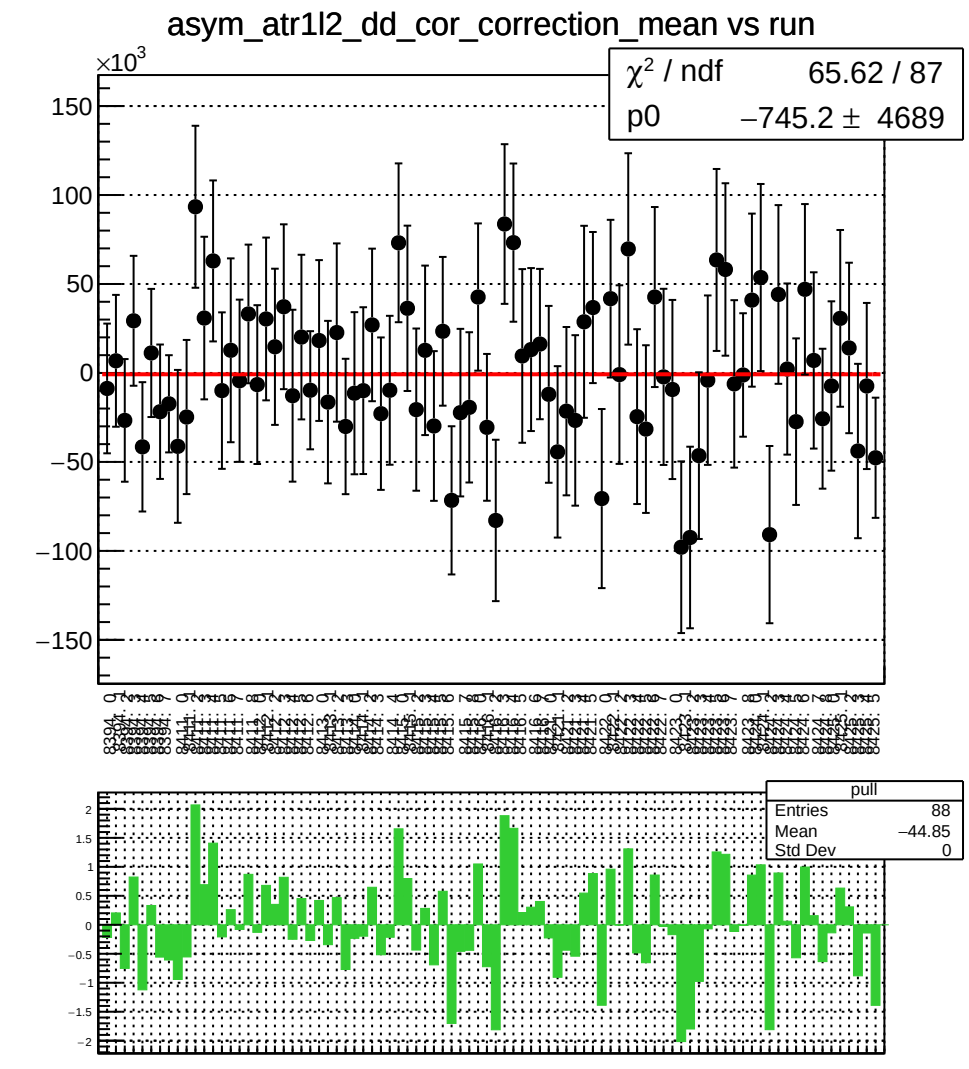

pull1D
Entries 88
Mean 0.01914
Std Dev 0.8633
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

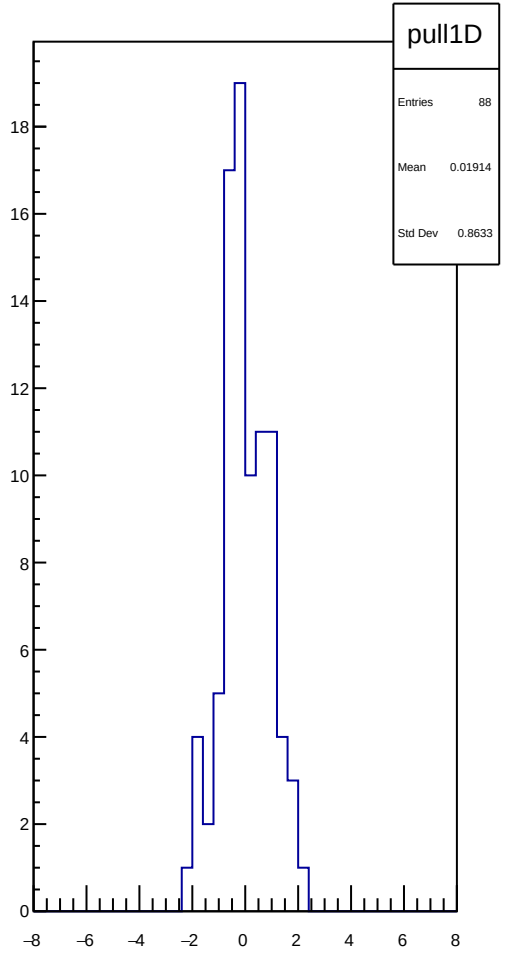

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 1.646e+04 / 87
p0 4293 ± 3.316
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

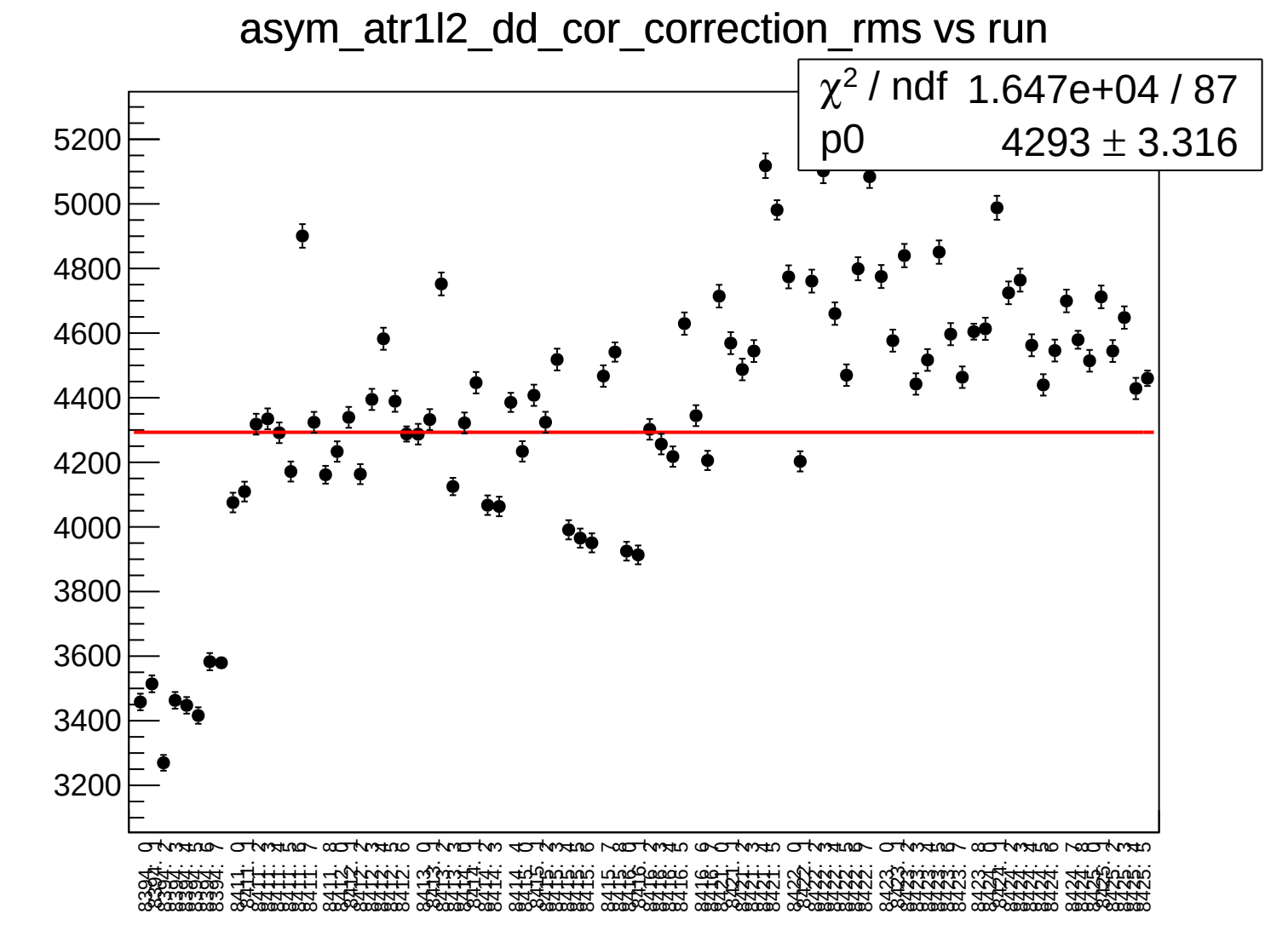

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 91.02 / 87
p0 2010 ± 1913
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −438
Std Dev 0
3
2
1
0
−1
−2

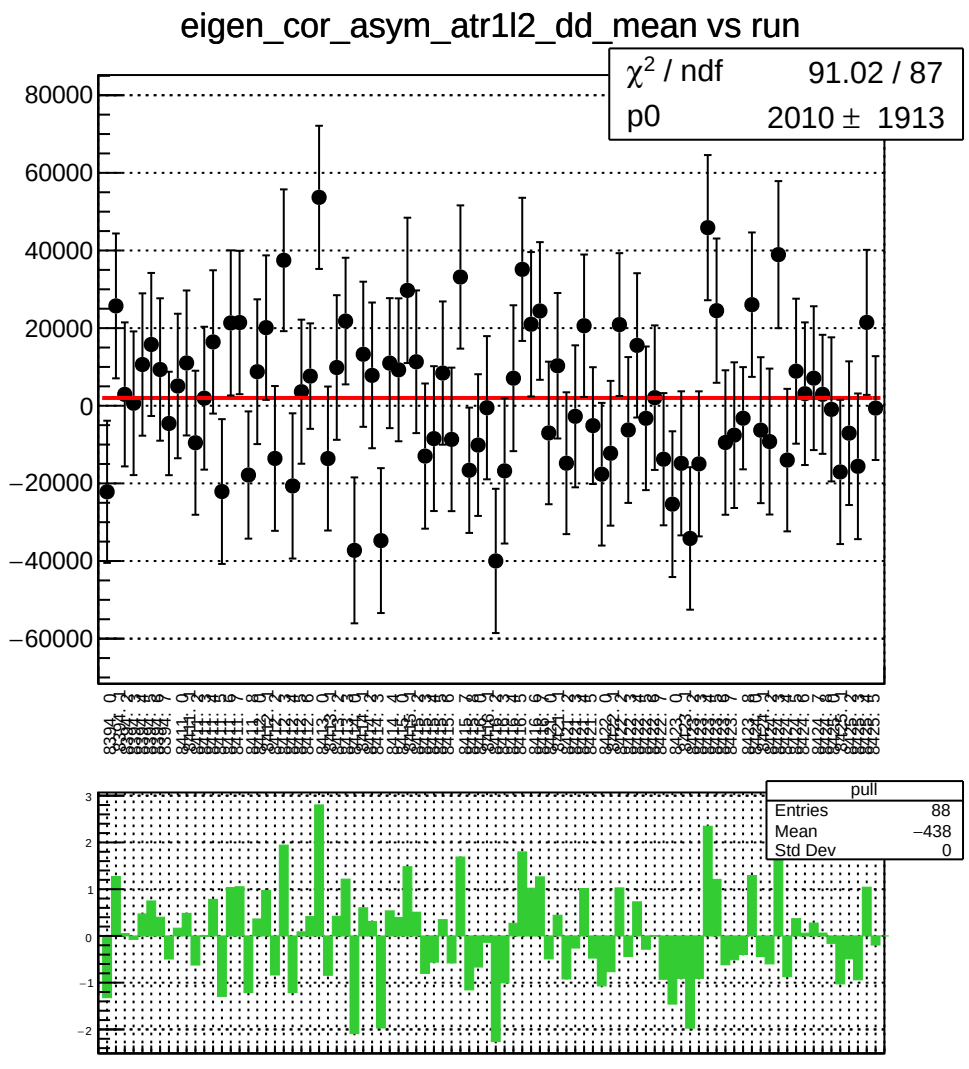

pull1D
Entries 88
Mean 0.005326
Std Dev 1.017
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

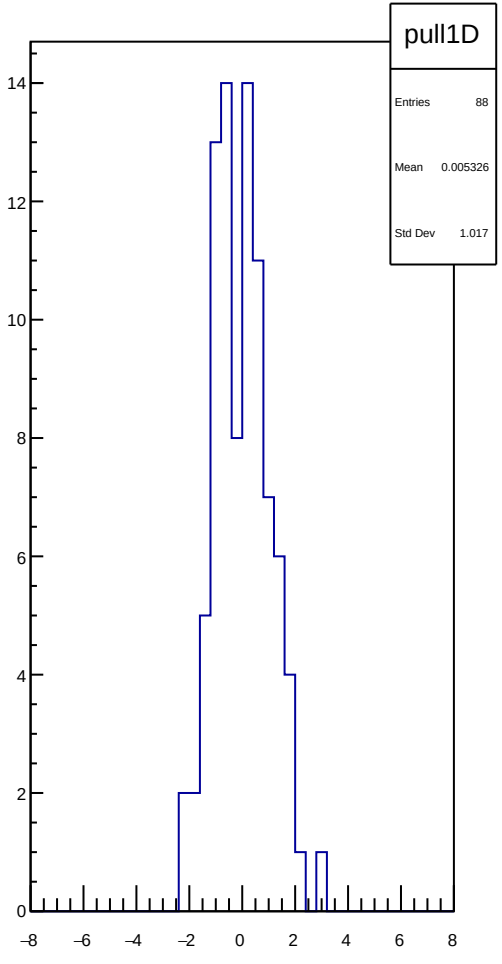

cor_asym_atr1l2_dd_rms vs run
χ^2 / ndf 115.7 / 87
p0 1760 ± 1.353
1800
1780
1760
1740
1720

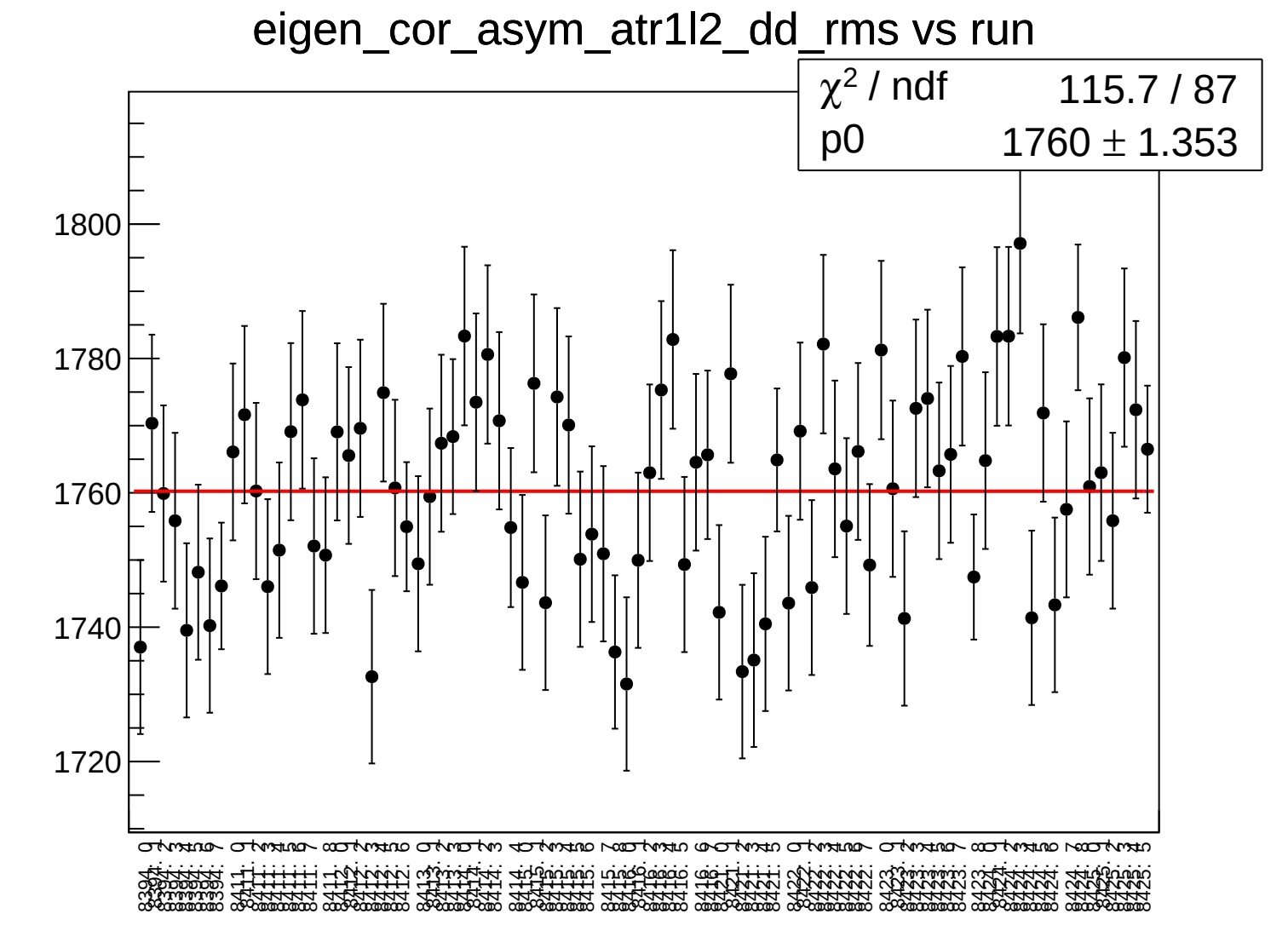

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 65.62 / 87
p0 −745.2 ± 4689
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −44.85
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

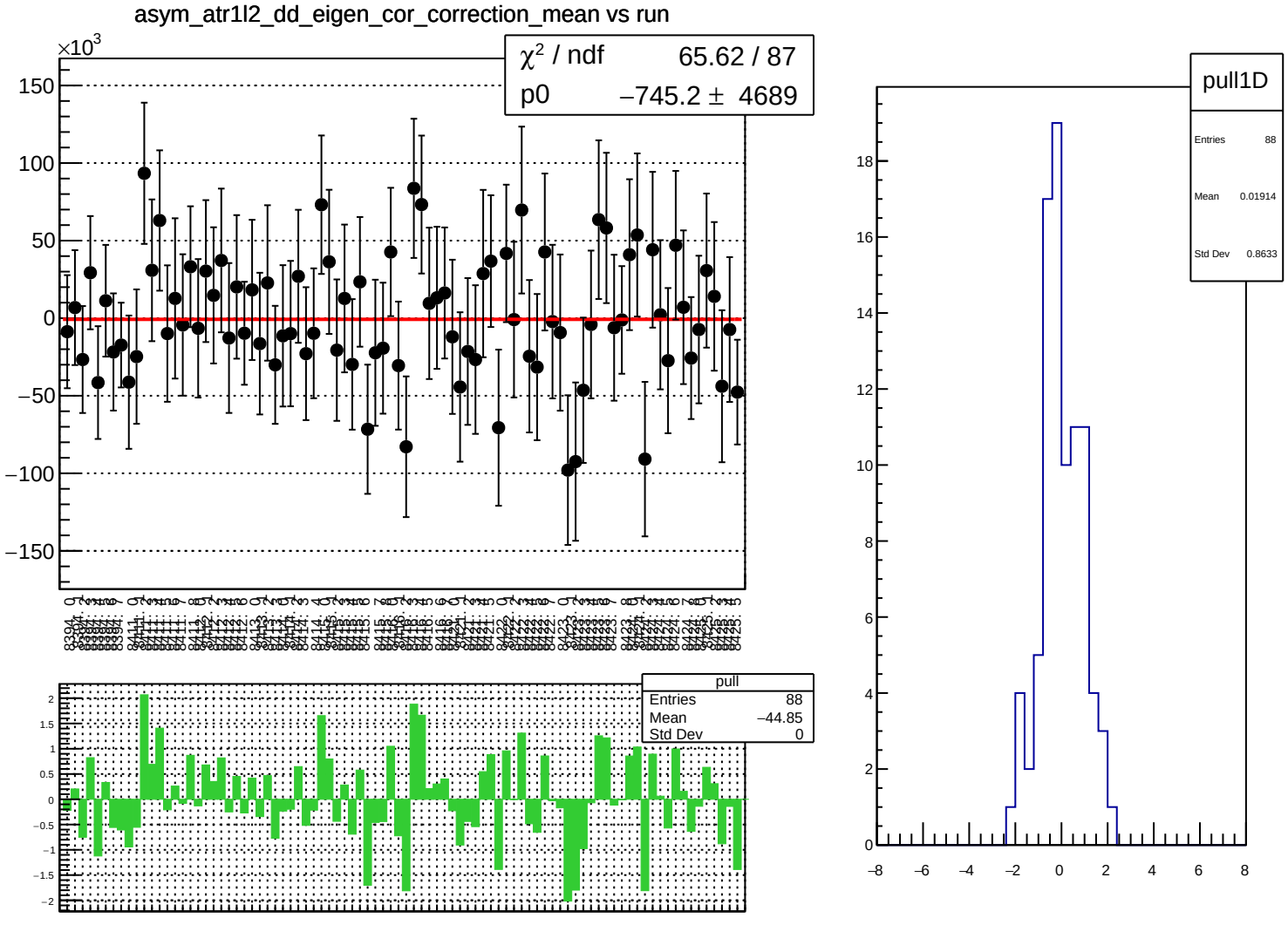

pull1D
Entries 88
Mean 0.01914
Std Dev 0.8633
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

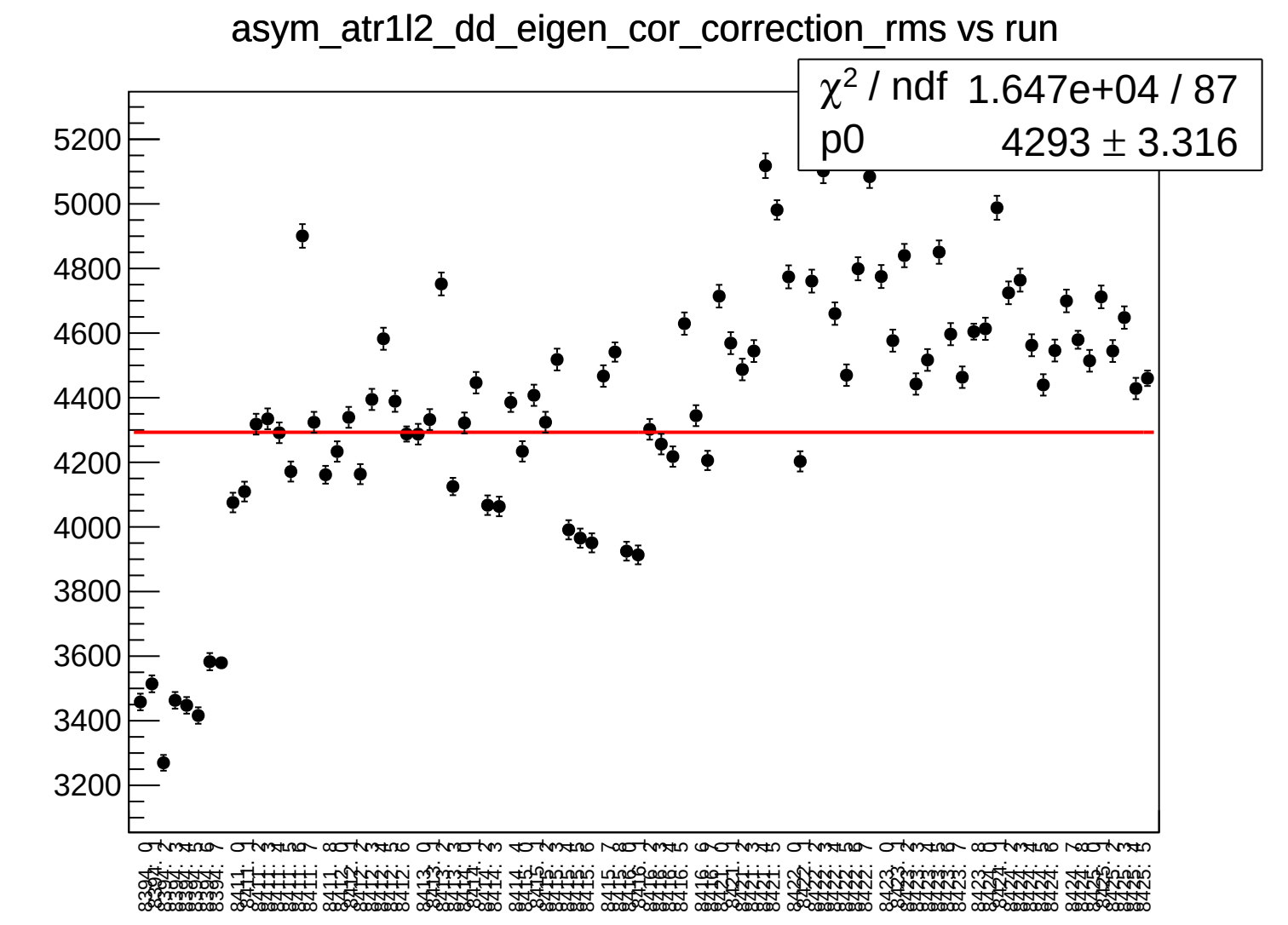

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 1.647e+04 / 87
p0 4293 ± 3.316
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

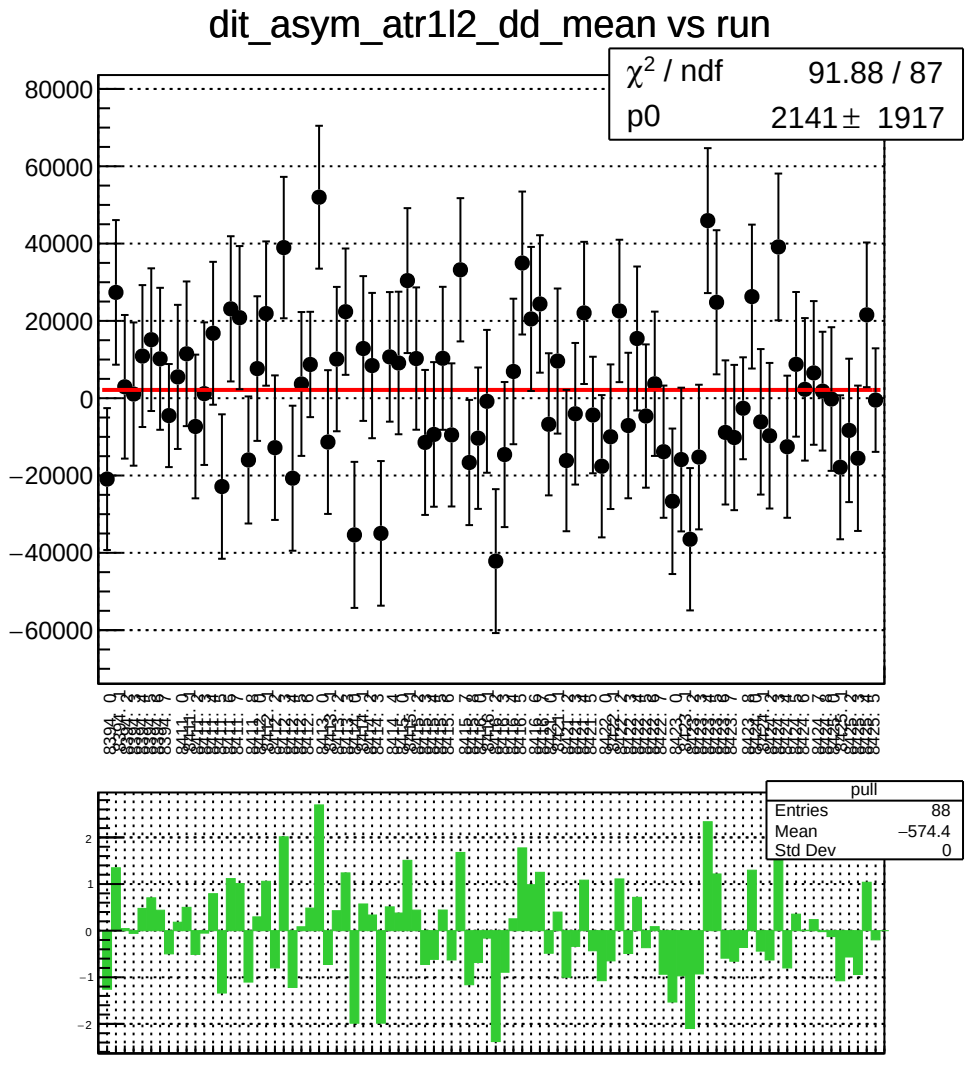

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 91.02 / 87
p0 2010 ± 1913
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −438
Std Dev 0
3
2
1
0
−1
−2

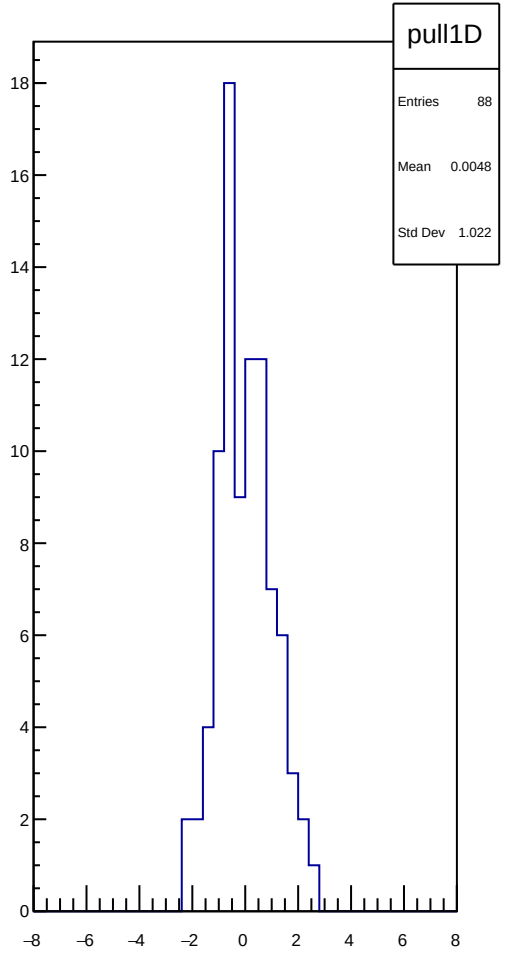

pull1D
Entries 88
Mean 0.005326
Std Dev 1.017
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

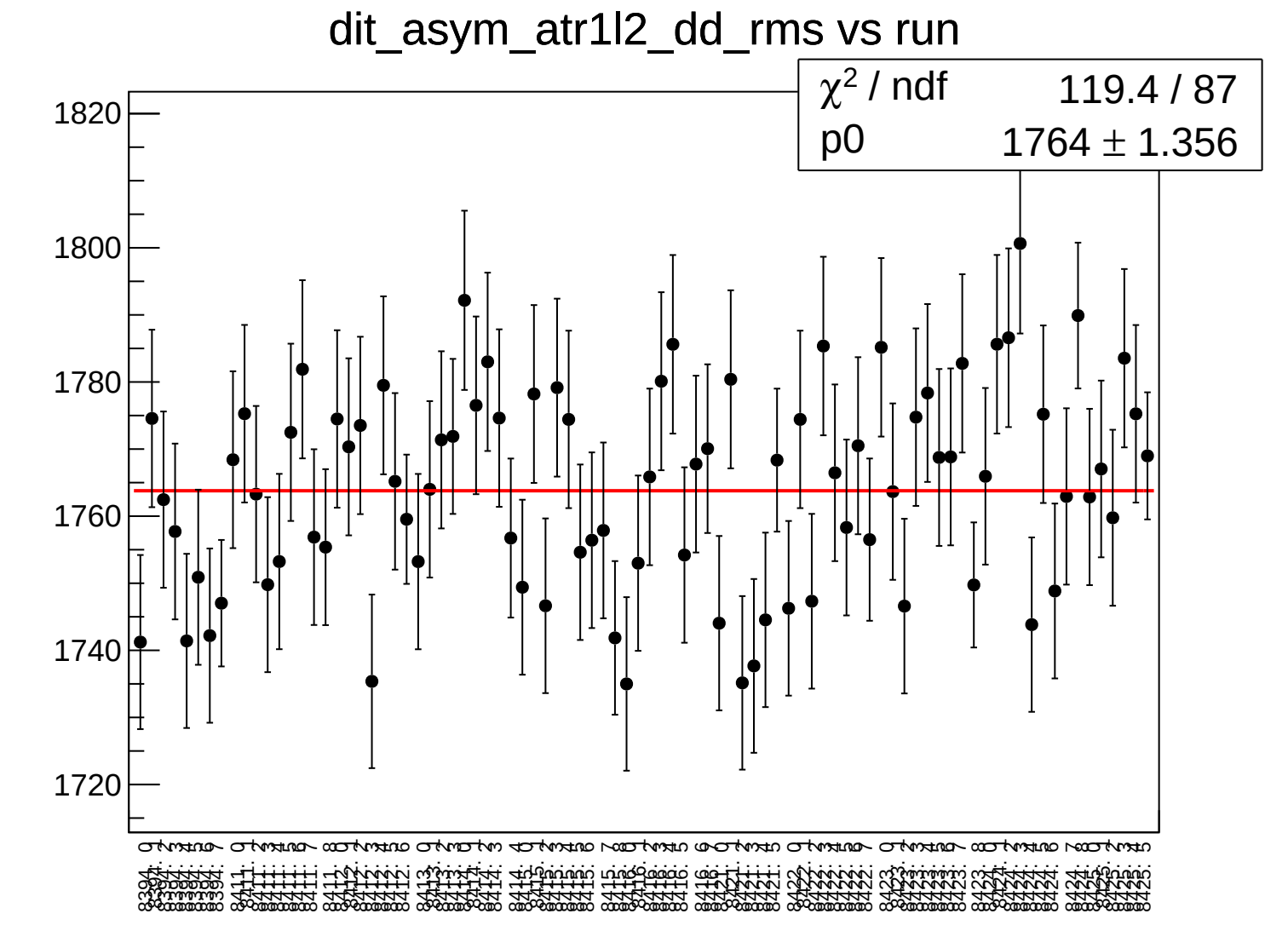

eigen_cor_asym_atr1l2_dd_rms vs run
χ^2 / ndf 115.7 / 87
p0 1760 ± 1.353
1800
1780
1760
1740
1720

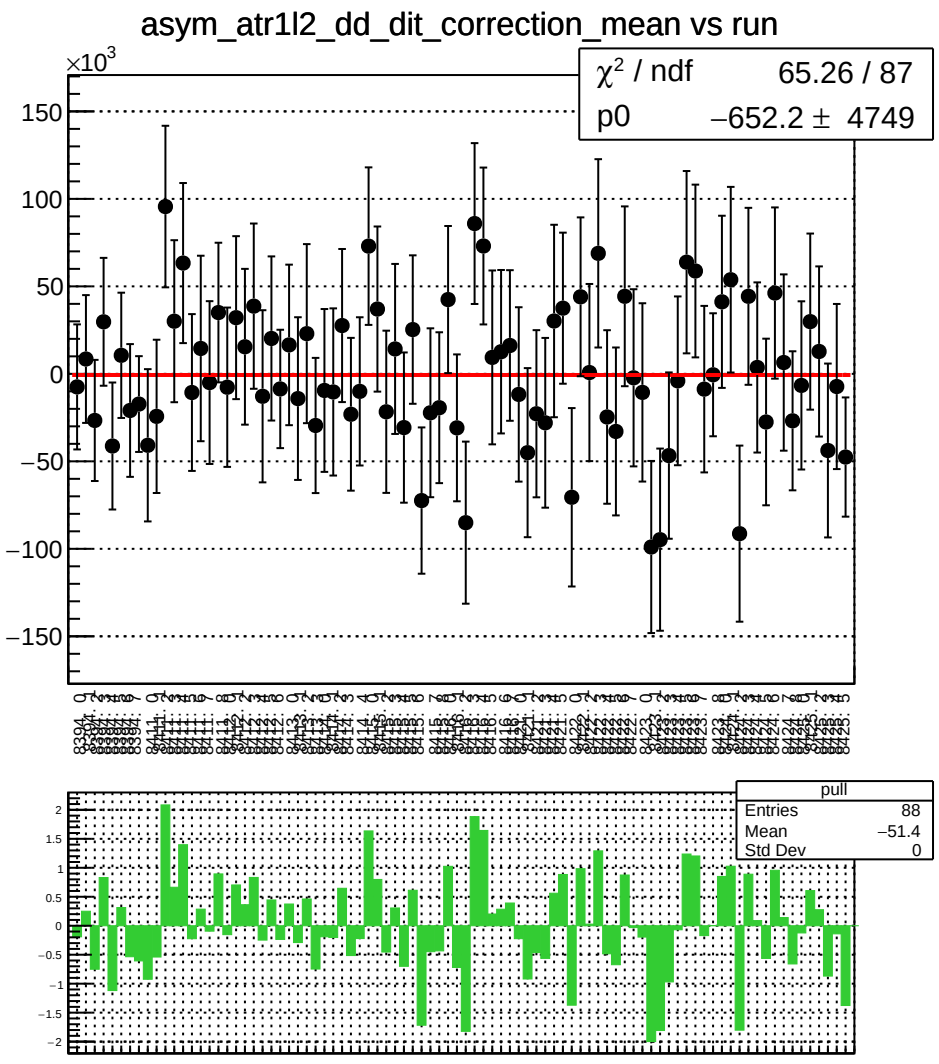

asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 65.62 / 87
p0 −745.2 ± 4689
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −44.85
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean 0.01914
Std Dev 0.8633
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

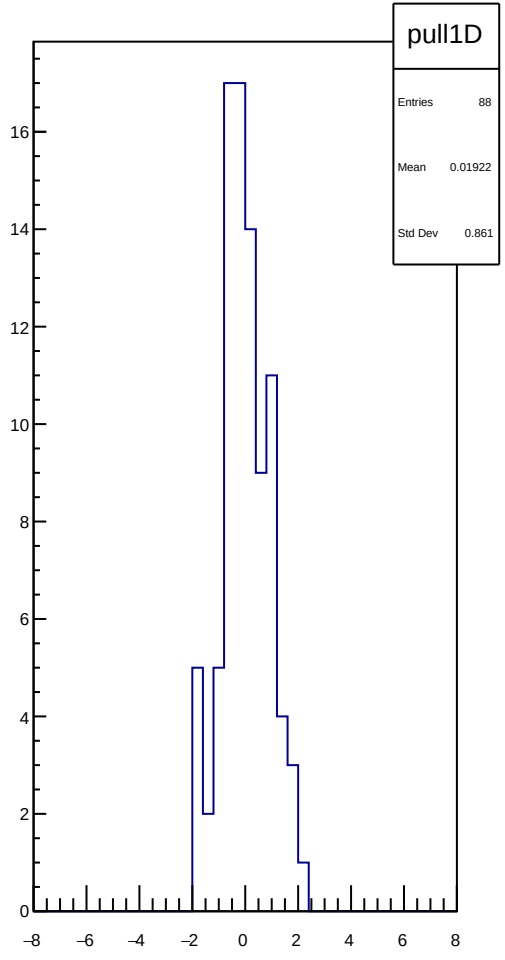

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.647e+04 / 87
p0 4293 ± 3.316
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

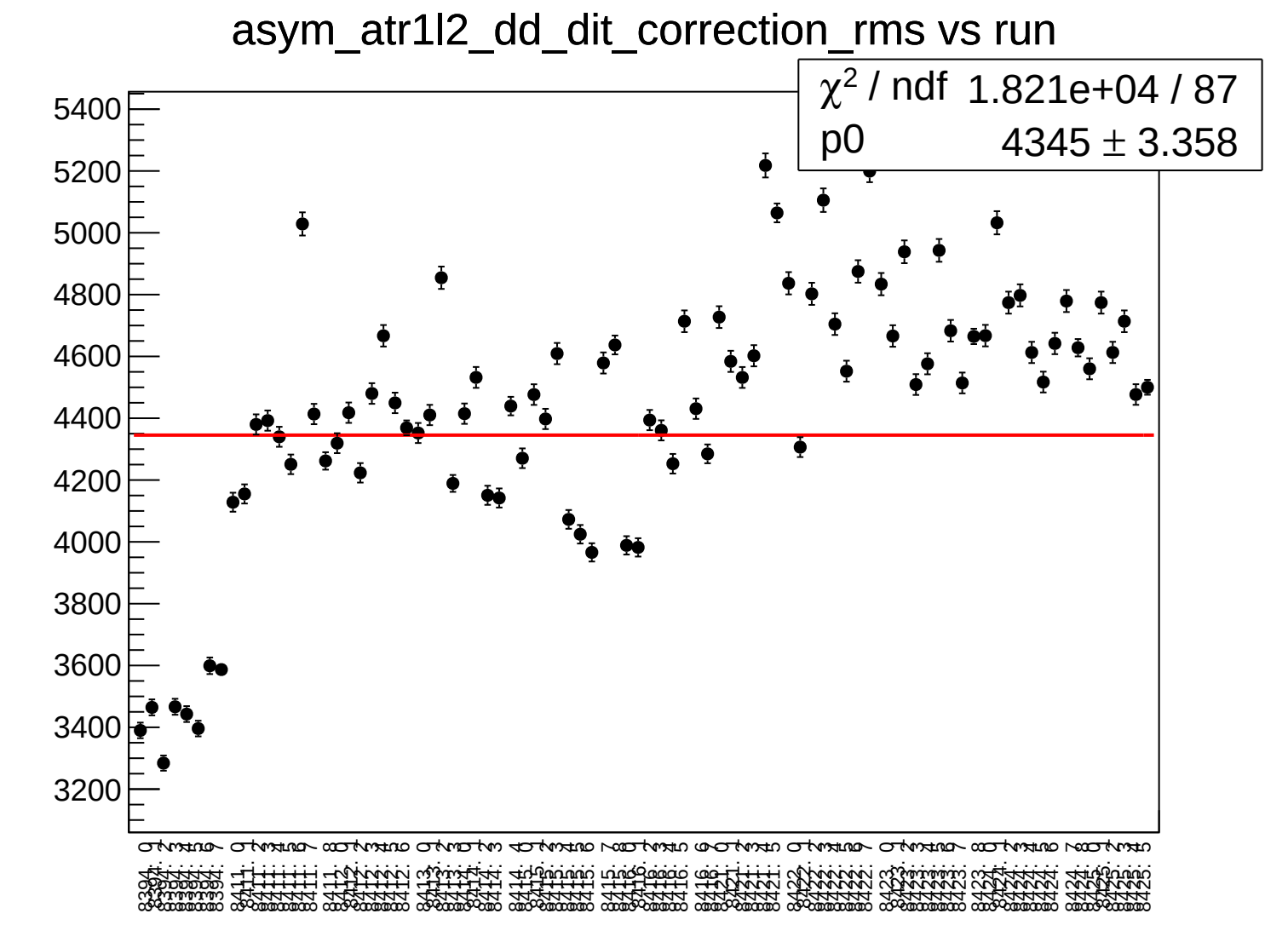

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 91.88 / 87
p0 2141 ± 1917
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −574.4
Std Dev 0
2
1
0
−1
−2

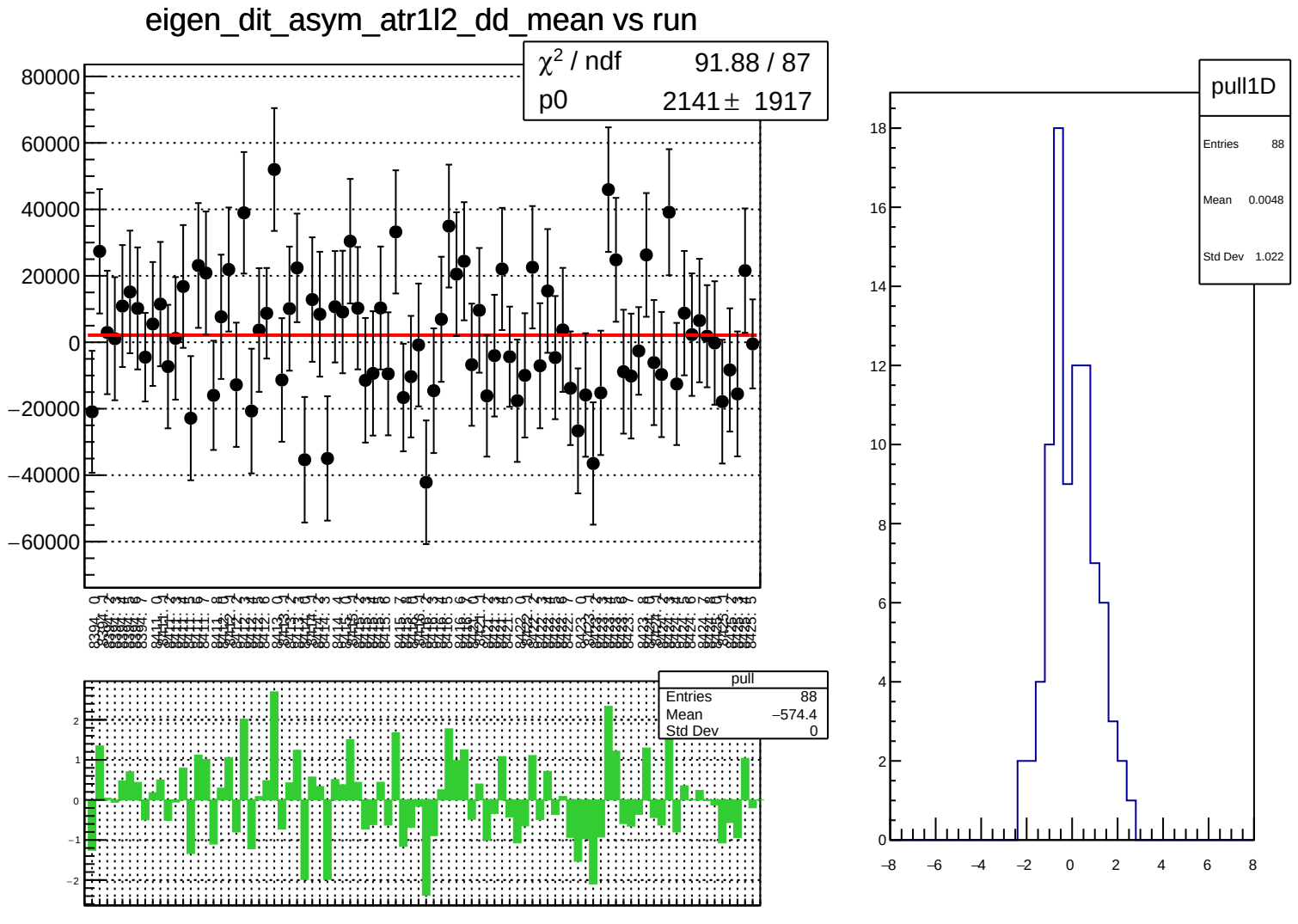

pull1D
Entries 88
Mean 0.0048
Std Dev 1.022
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

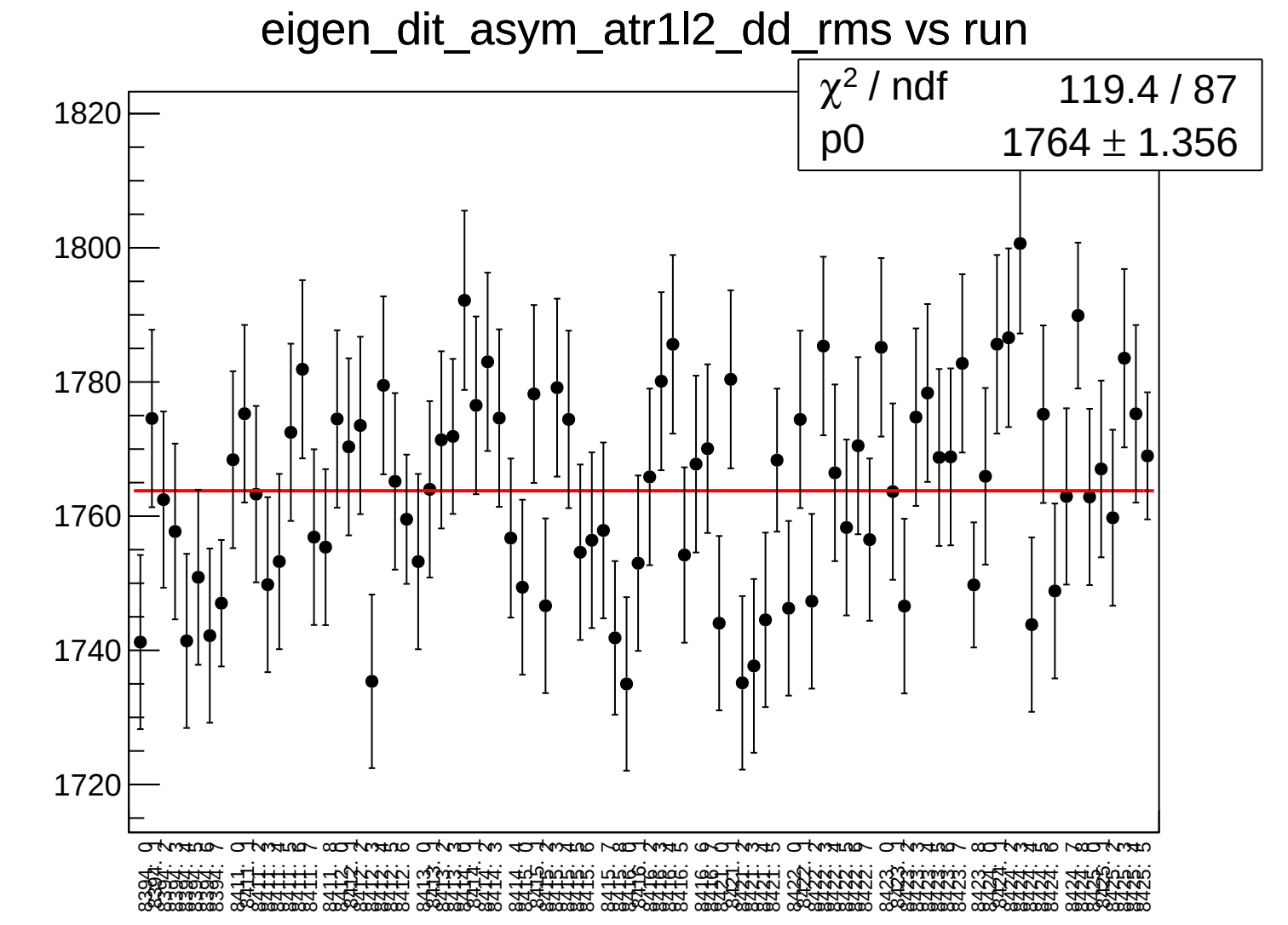

dit_asym_atr1l2_dd_rms vs run
χ^2 / ndf 119.4 / 87
p0 1764 ± 1.356
1820
1800
1780
1760
1740
1720

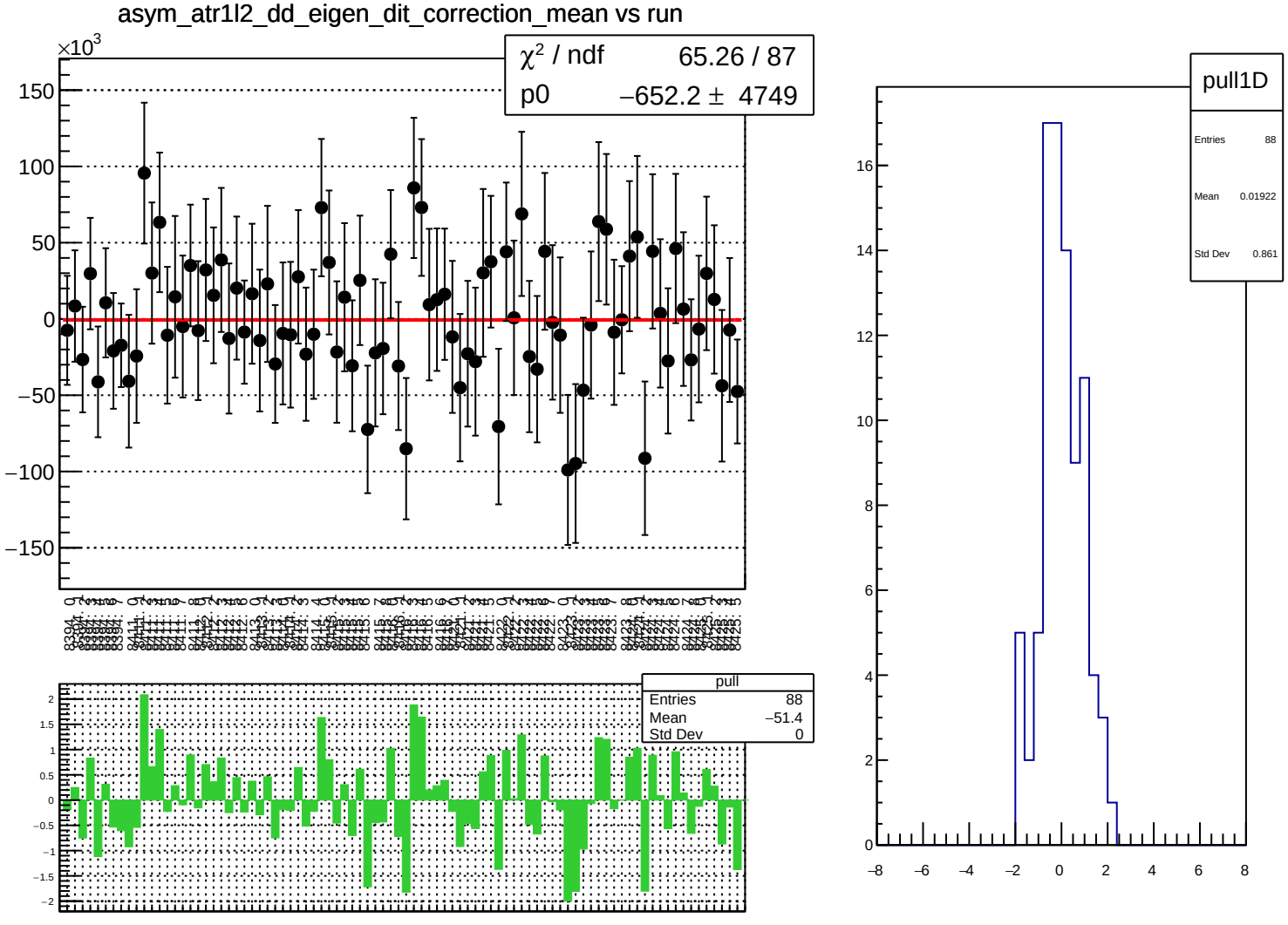

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 65.26 / 87
p0 −652.2 ± 4749
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −51.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

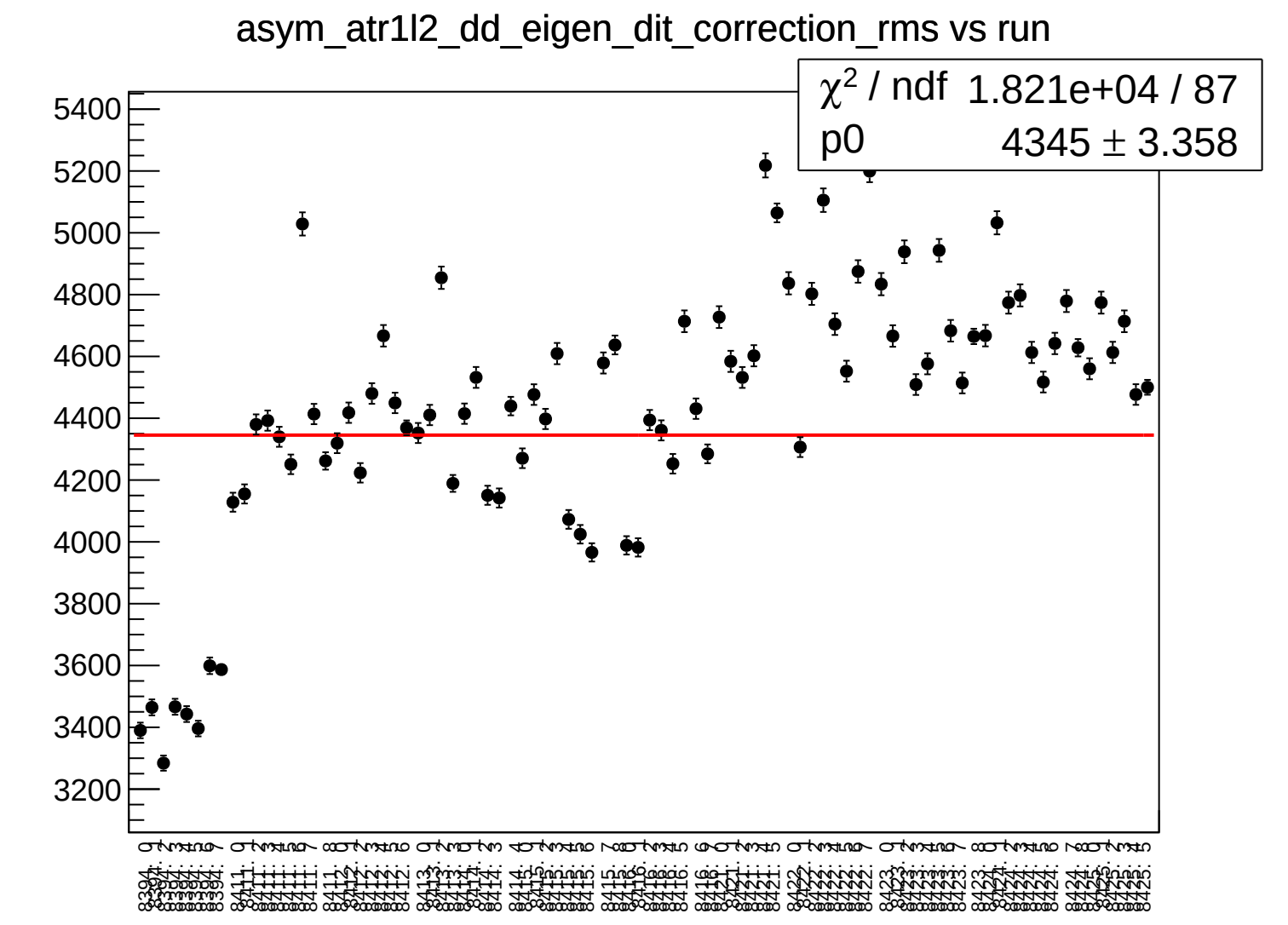

pull1D
Entries 88
Mean 0.01922
Std Dev 0.861
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

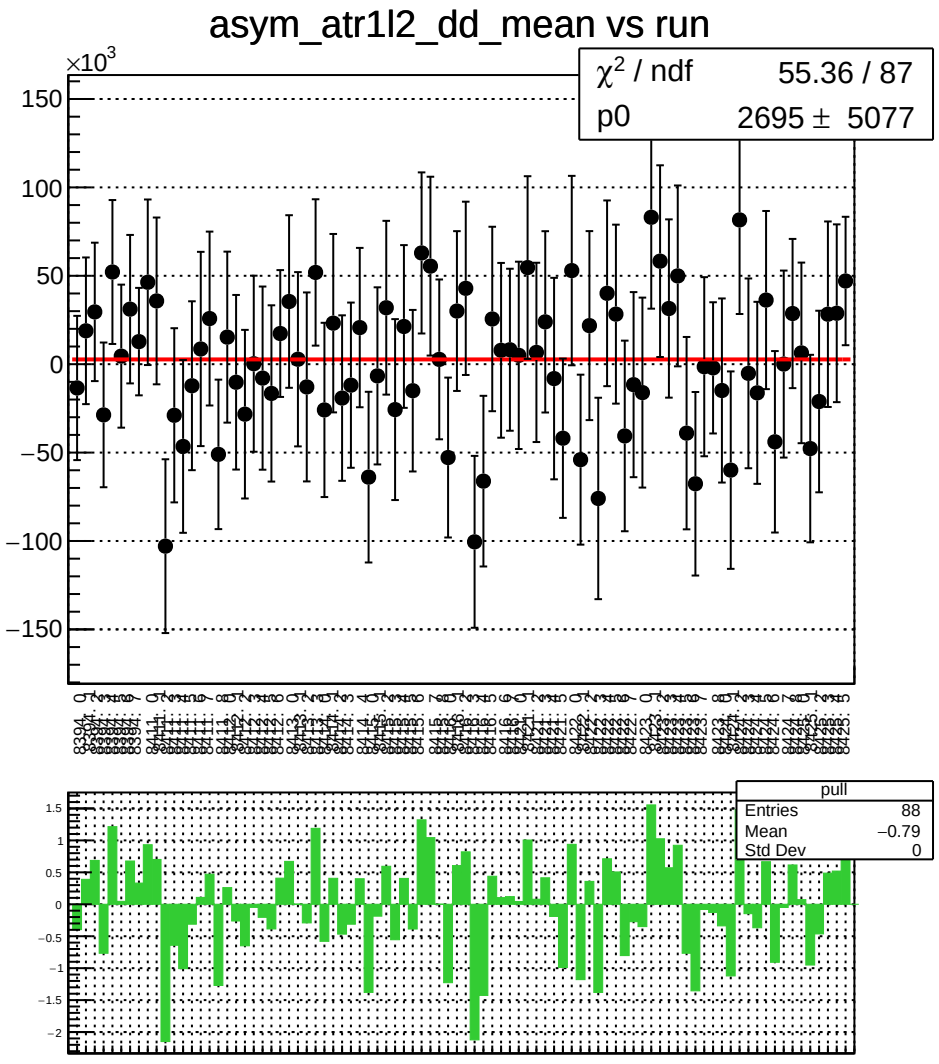

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 1.821e+04 / 87
p0 4345 ± 3.358
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

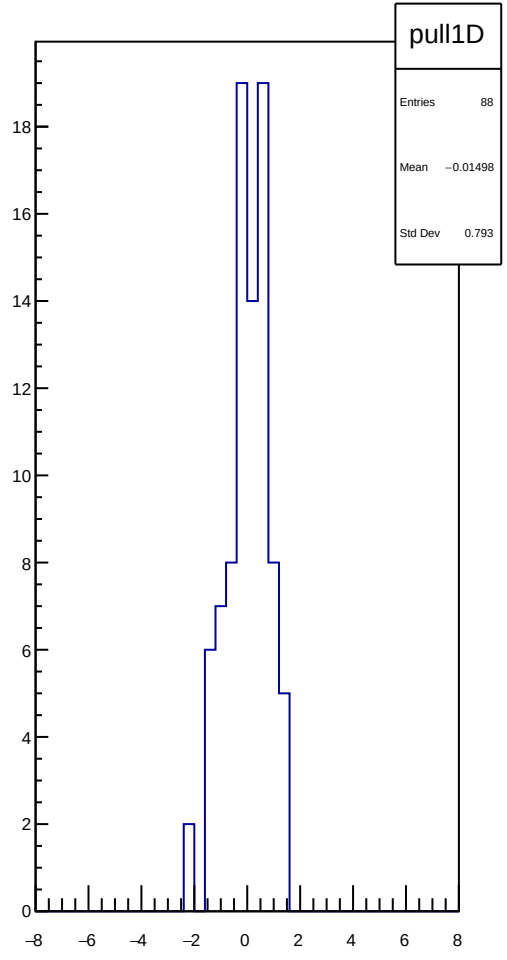

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 91.88 / 87
p0 2141 ± 1917
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −574.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.0048
Std Dev 1.022
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

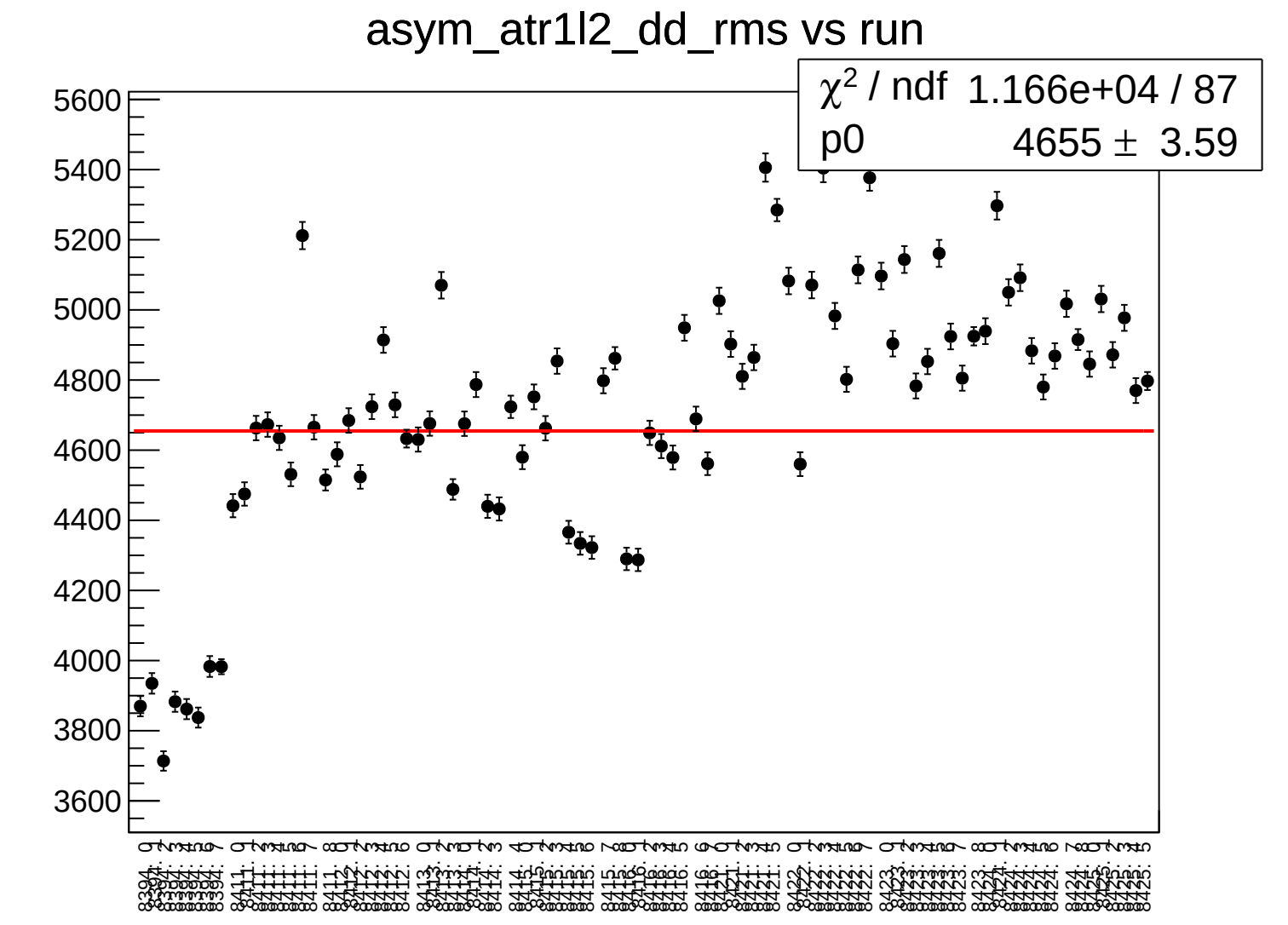

eigen_dit_asym_atr1l2_dd_rms vs run
χ^2 / ndf 119.4 / 87
p0 1764 ± 1.356
1820
1800
1780
1760
1740
1720

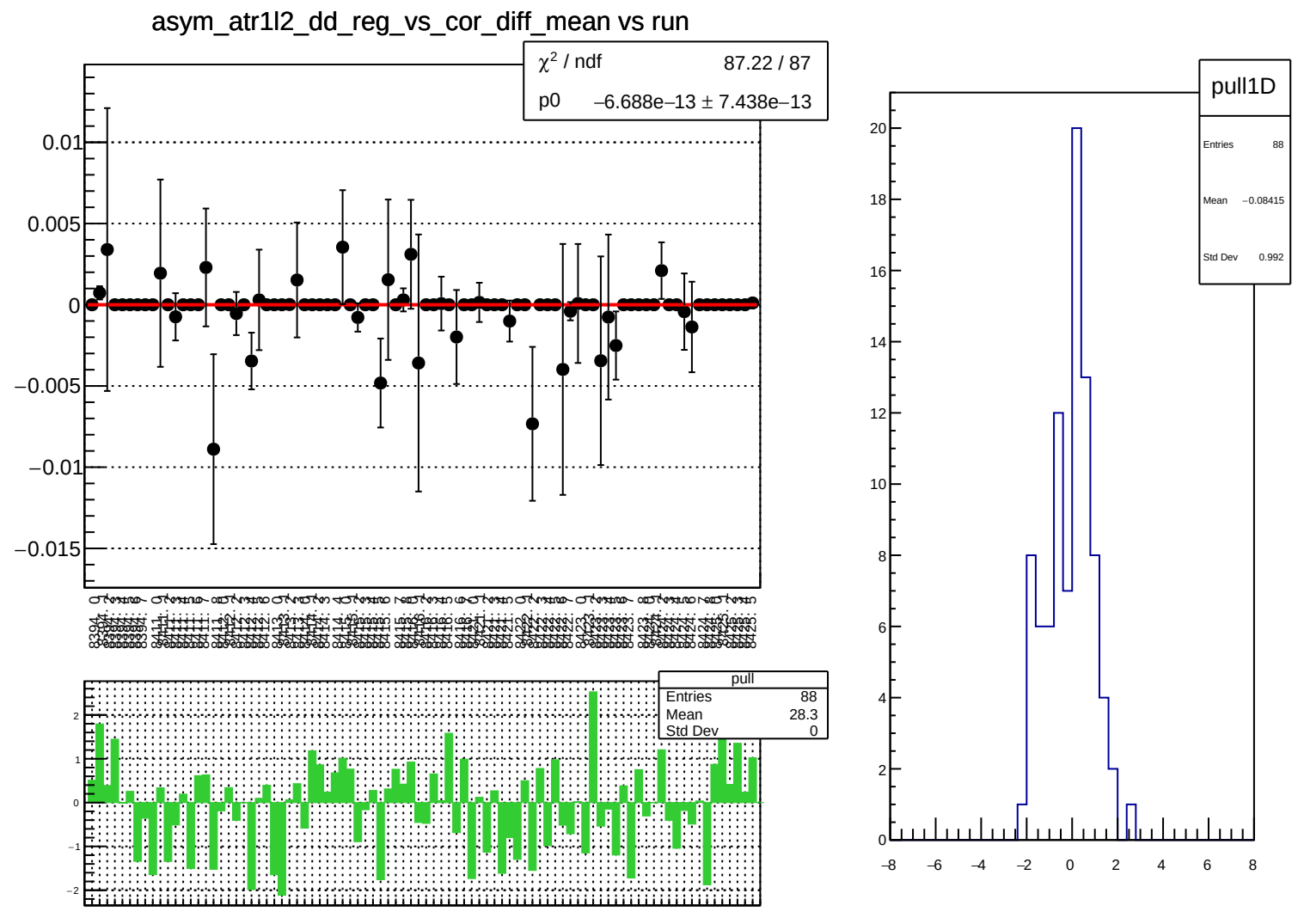

asym_atr1l2_dd_eigen_dit_correction_mean vs run
χ² / ndf 65.26 / 87
p0 −652.2 ± 4749
×10³
pull
Entries 88
Mean −51.4
Std Dev 0
pull1D
Entries 88
Mean 0.01922
Std Dev 0.861

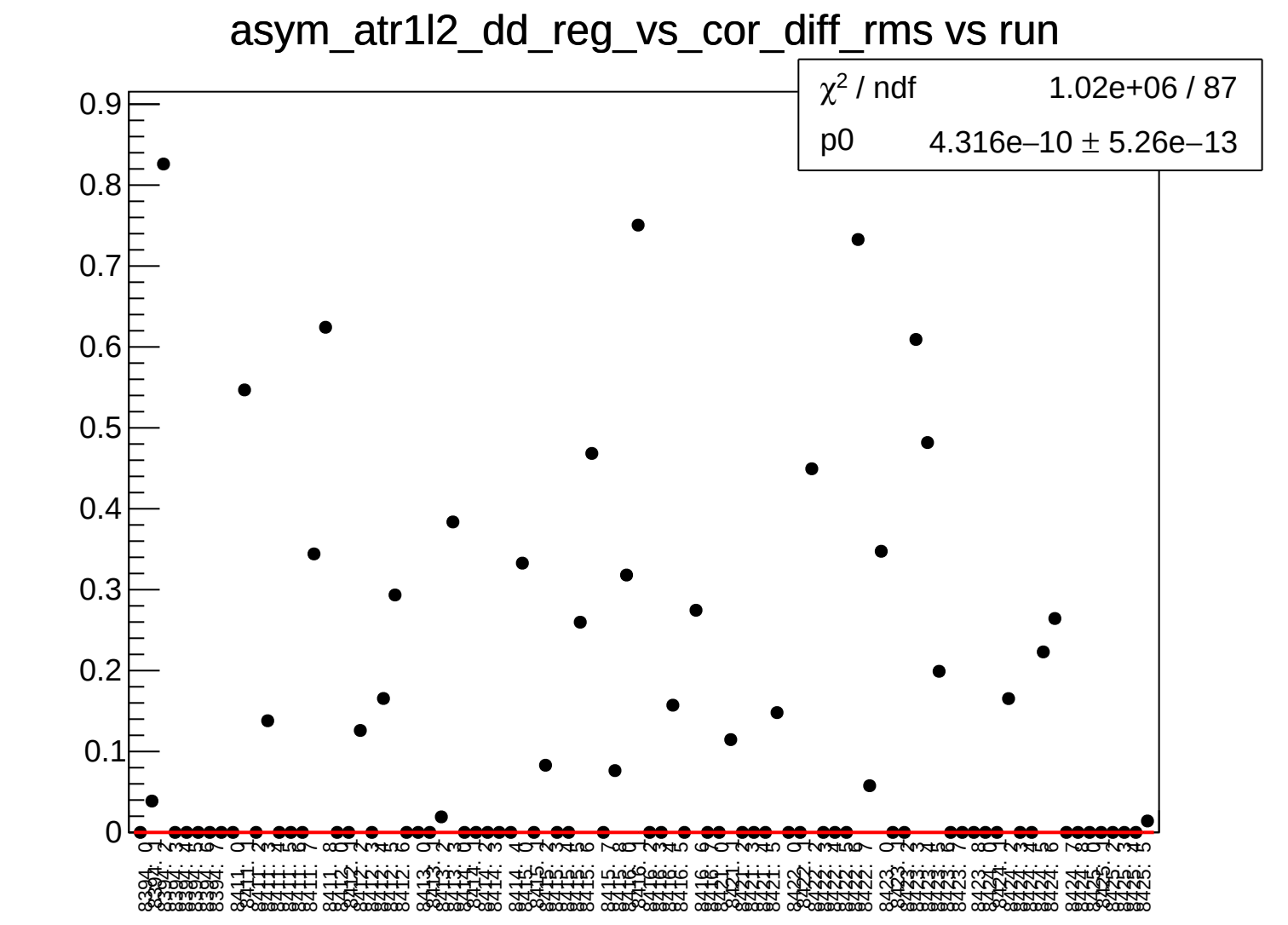

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.821e+04 / 87
p0 4345 ± 3.358
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

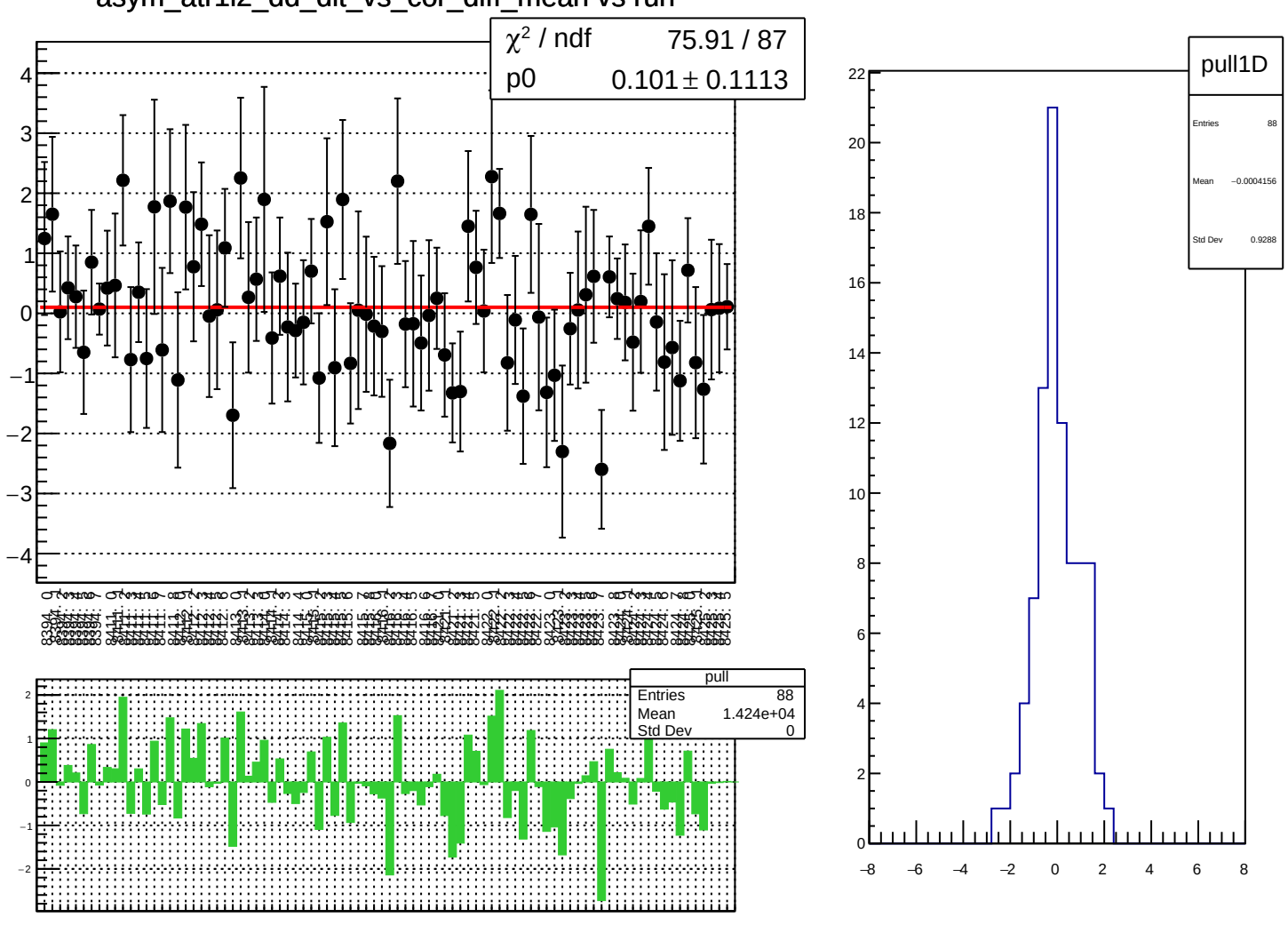

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 55.36 / 87
p0 2695 ± 5077
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −0.79
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

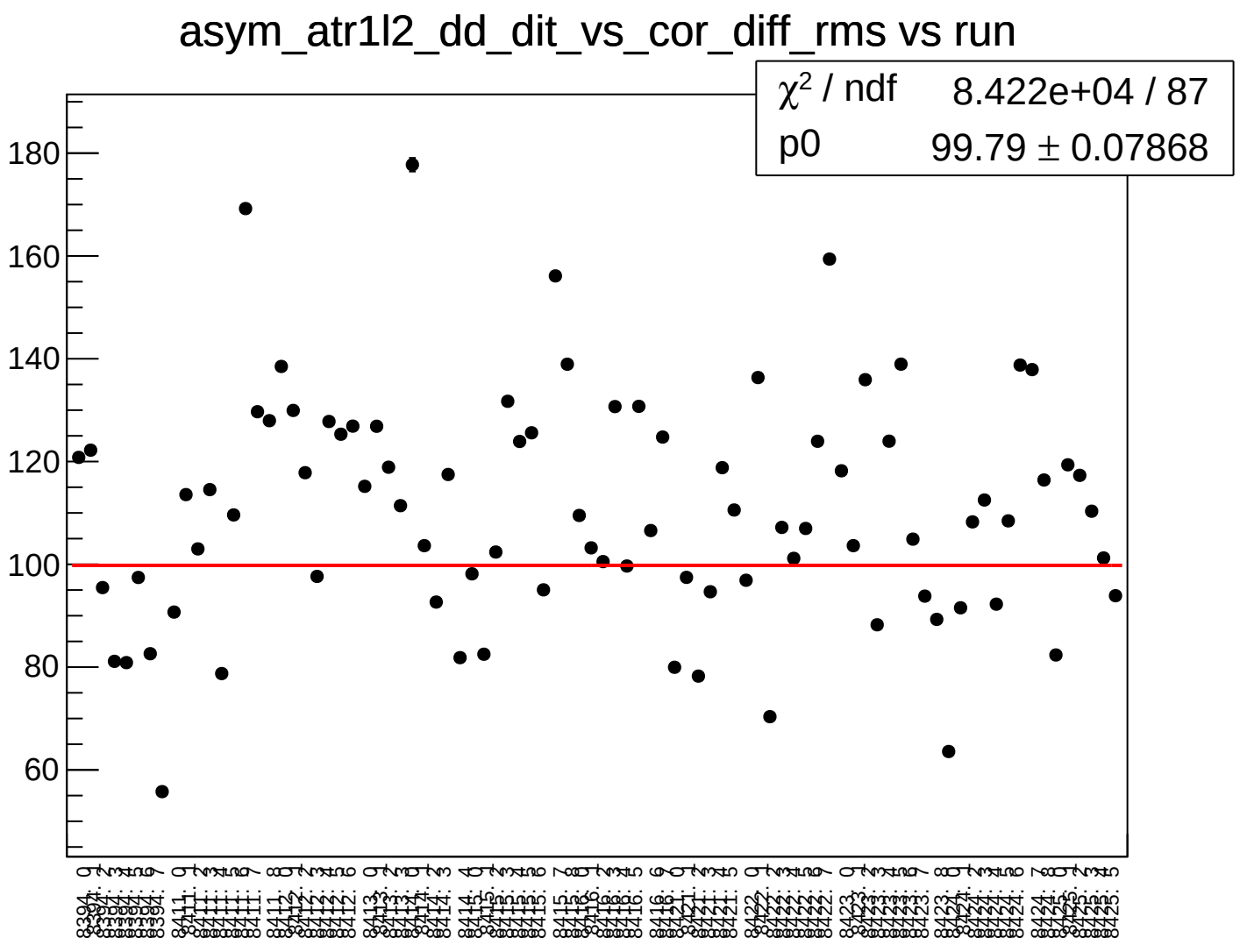

pull1D
Entries 88
Mean −0.01498
Std Dev 0.793
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

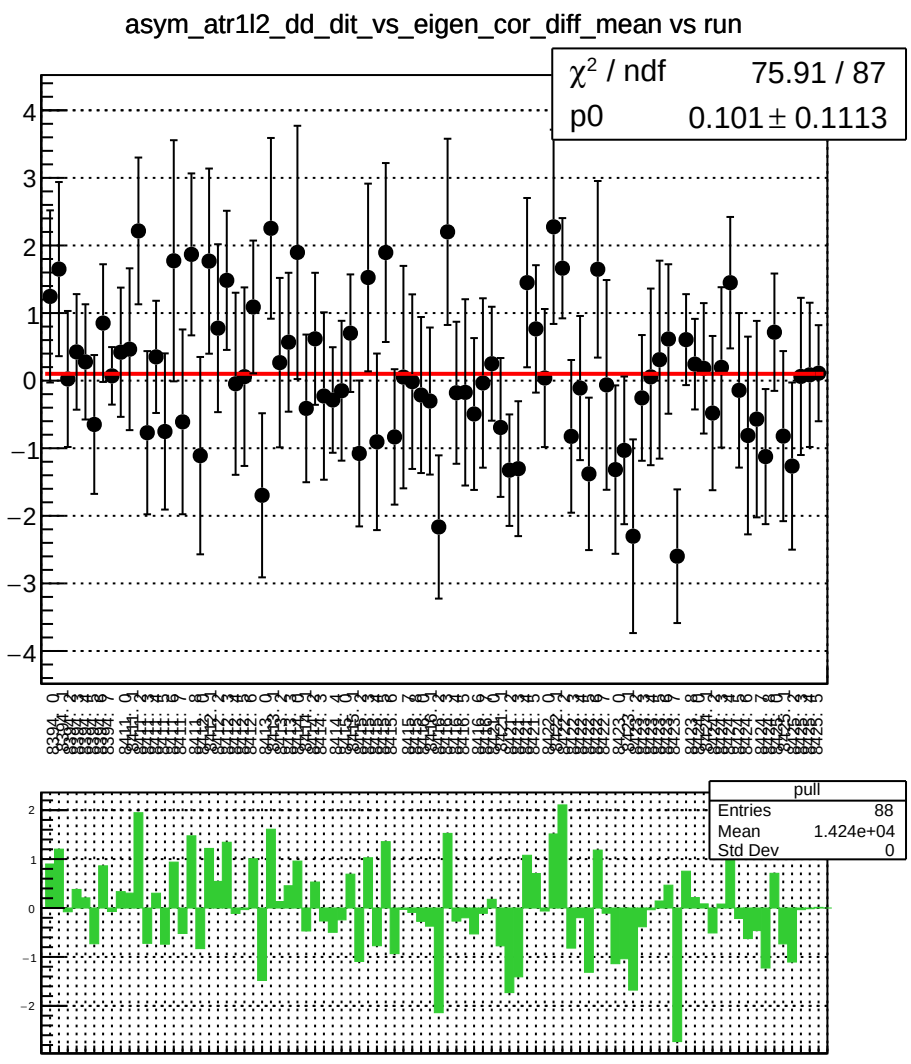

asym_atr1l2_dd_rms vs run
χ² / ndf 1.166e+04 / 87
p0 4655 ± 3.59
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

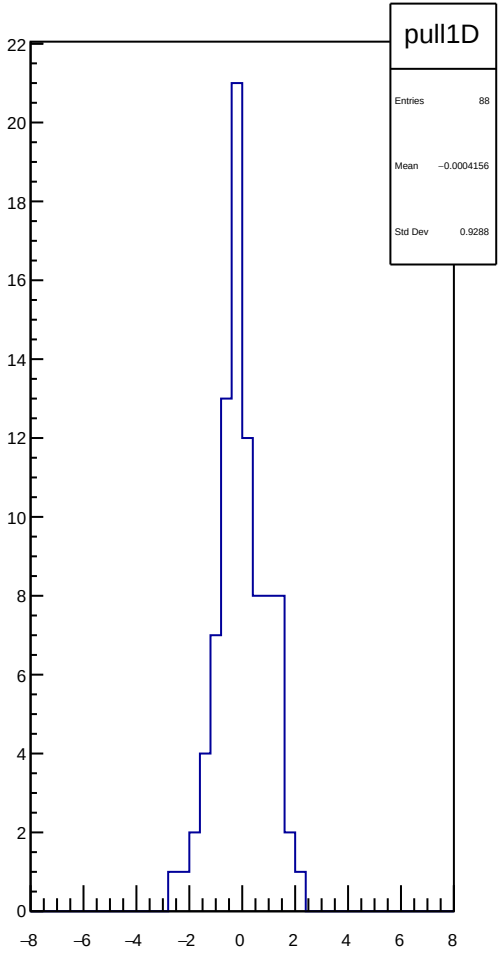

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.22 / 87
p0 −6.688e−13 ± 7.438e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 88
Mean 28.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.08415
Std Dev 0.992
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

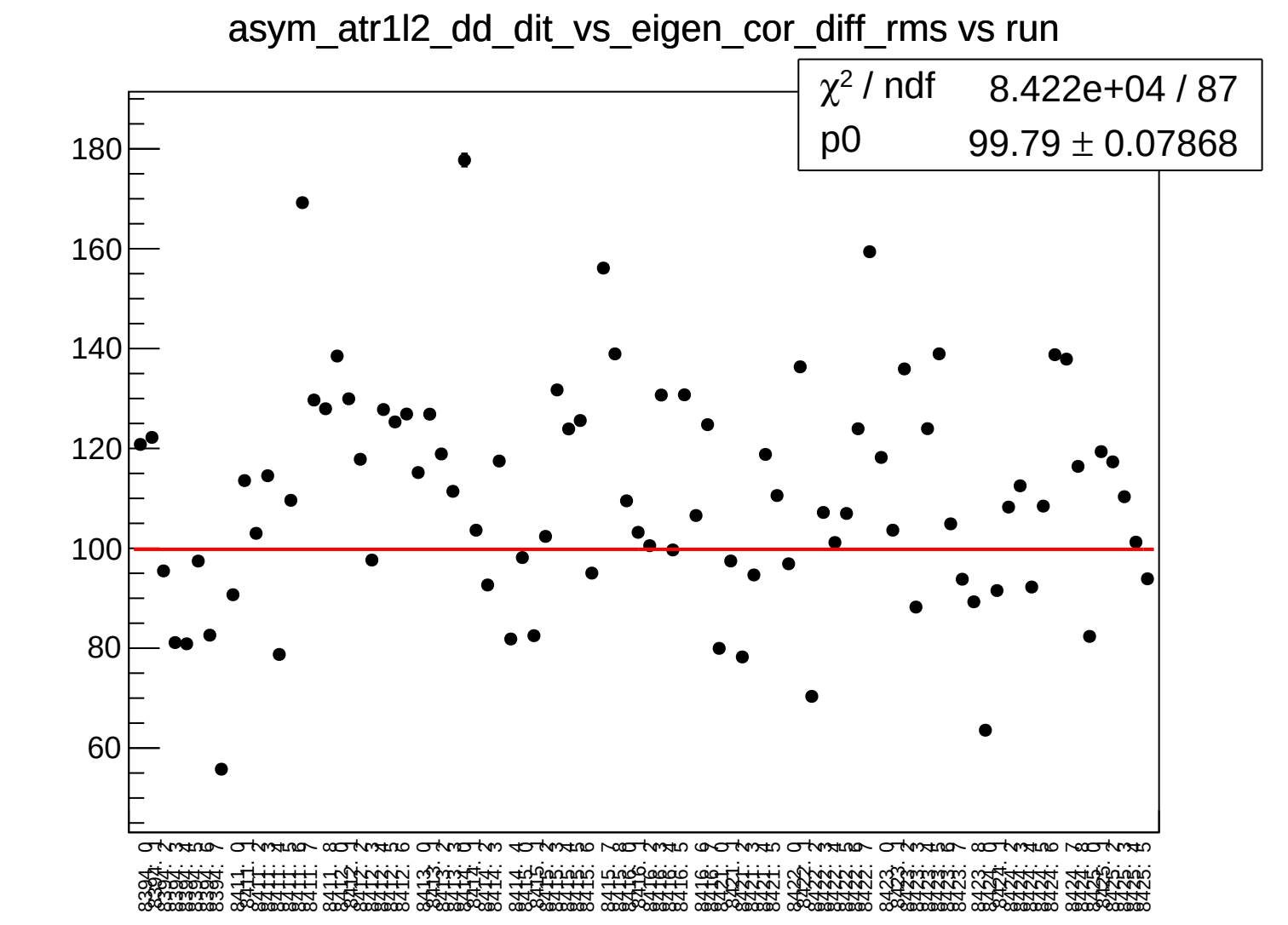

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.02e+06 / 87
p0 4.316e−10 ± 5.26e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

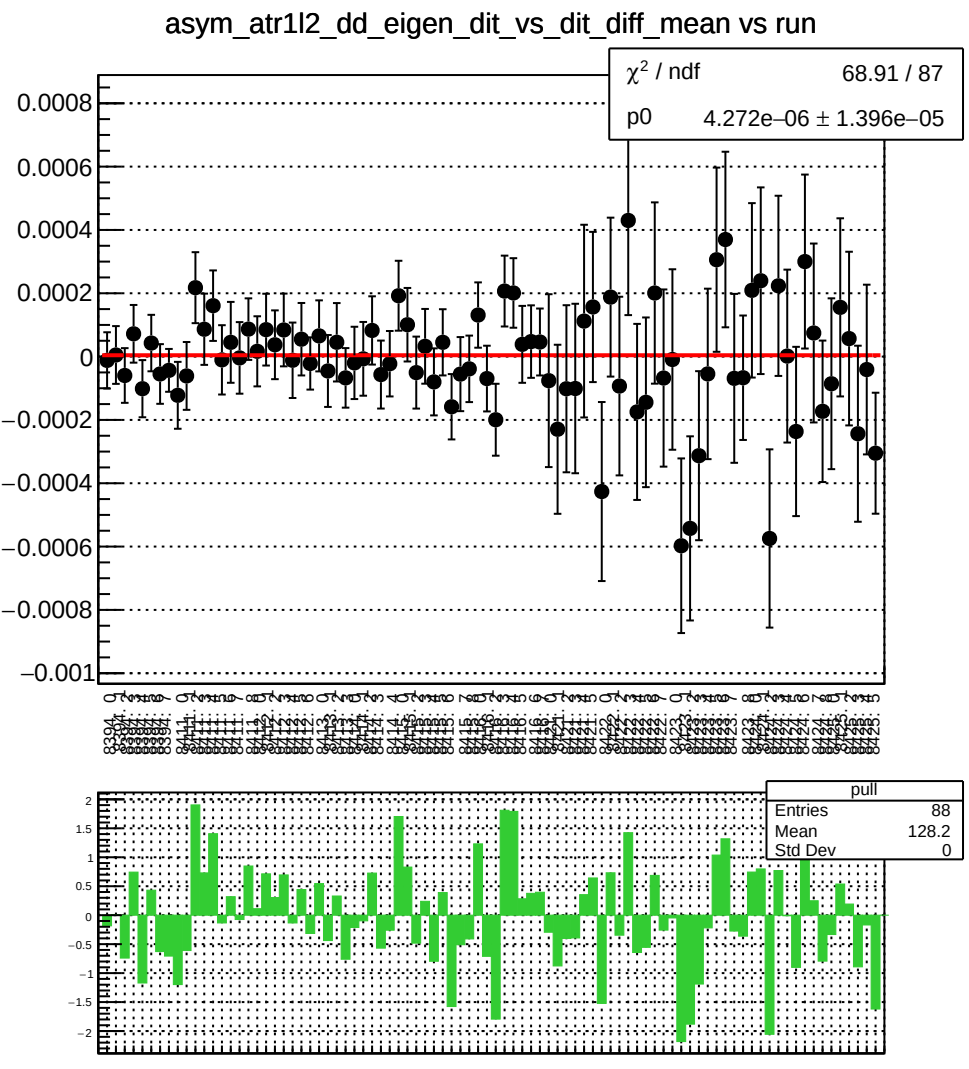

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 75.91 / 87
p0 0.101 ± 0.1113
pull
Entries 88
Mean 1.424e+04
Std Dev 0
pull1D
Entries 88
Mean −0.0004156
Std Dev 0.9288

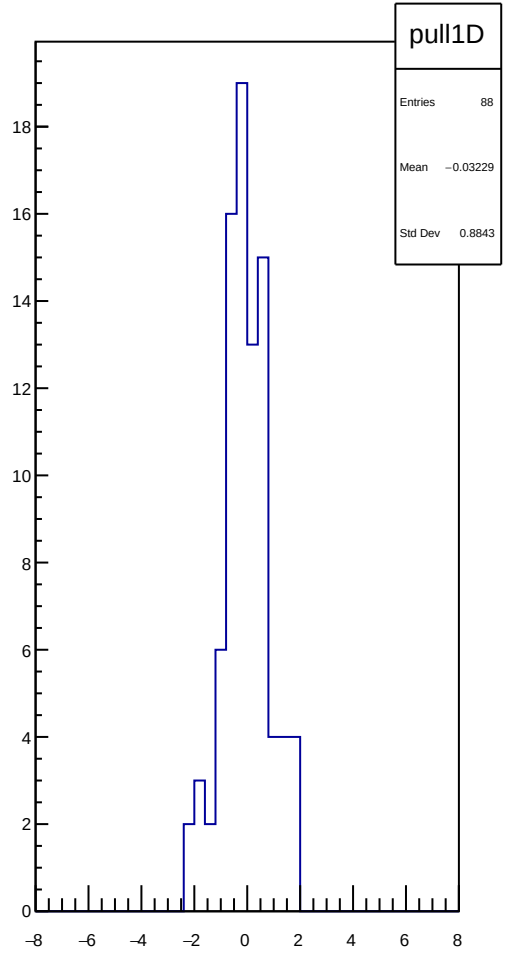

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.422e+04 / 87
p0 99.79 ± 0.07868
180
160
140
120
100
80
60

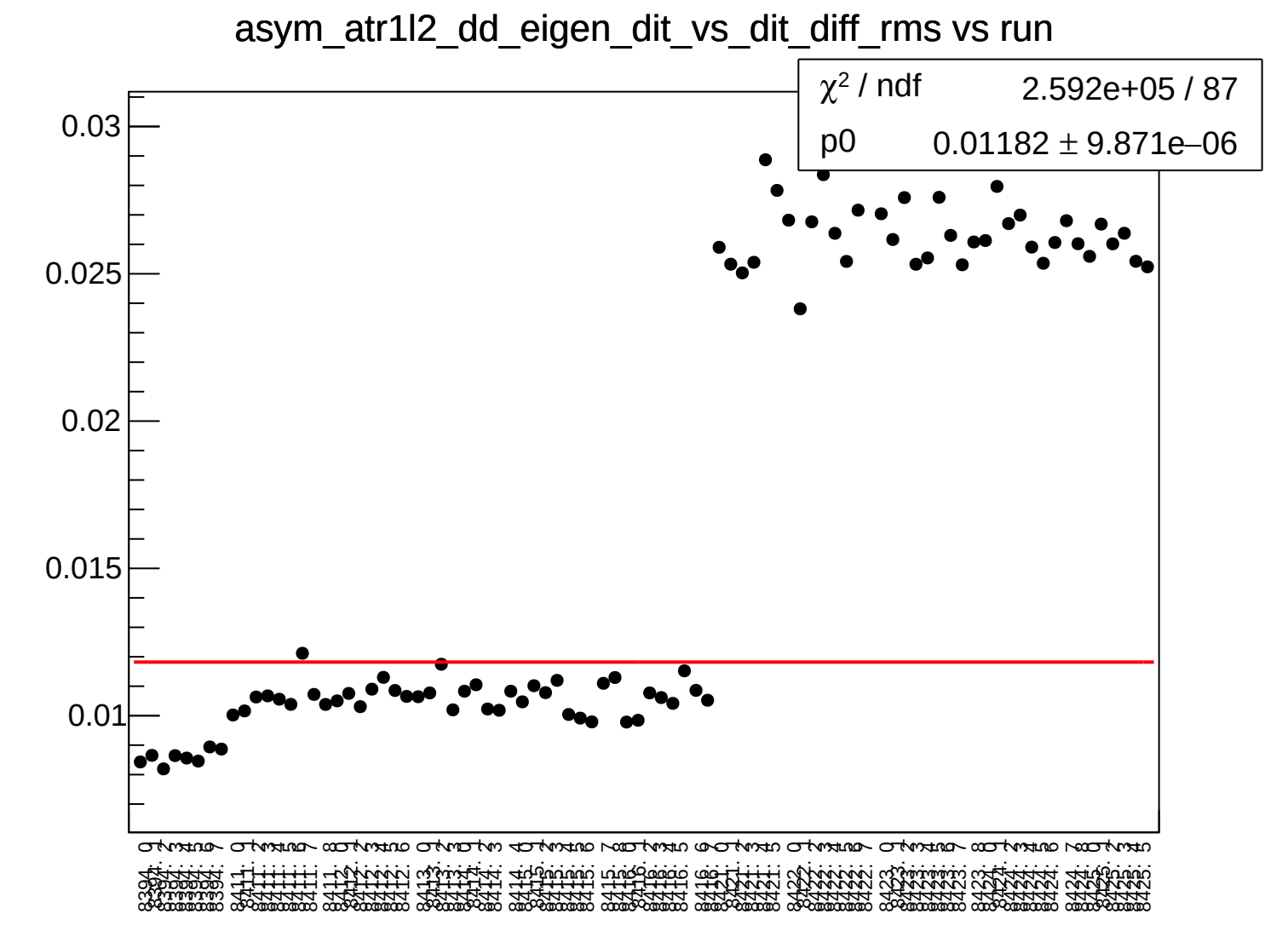

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.91 / 87
p0 0.101 ± 0.1113
pull
Entries 88
Mean 1.424e+04
Std Dev 0

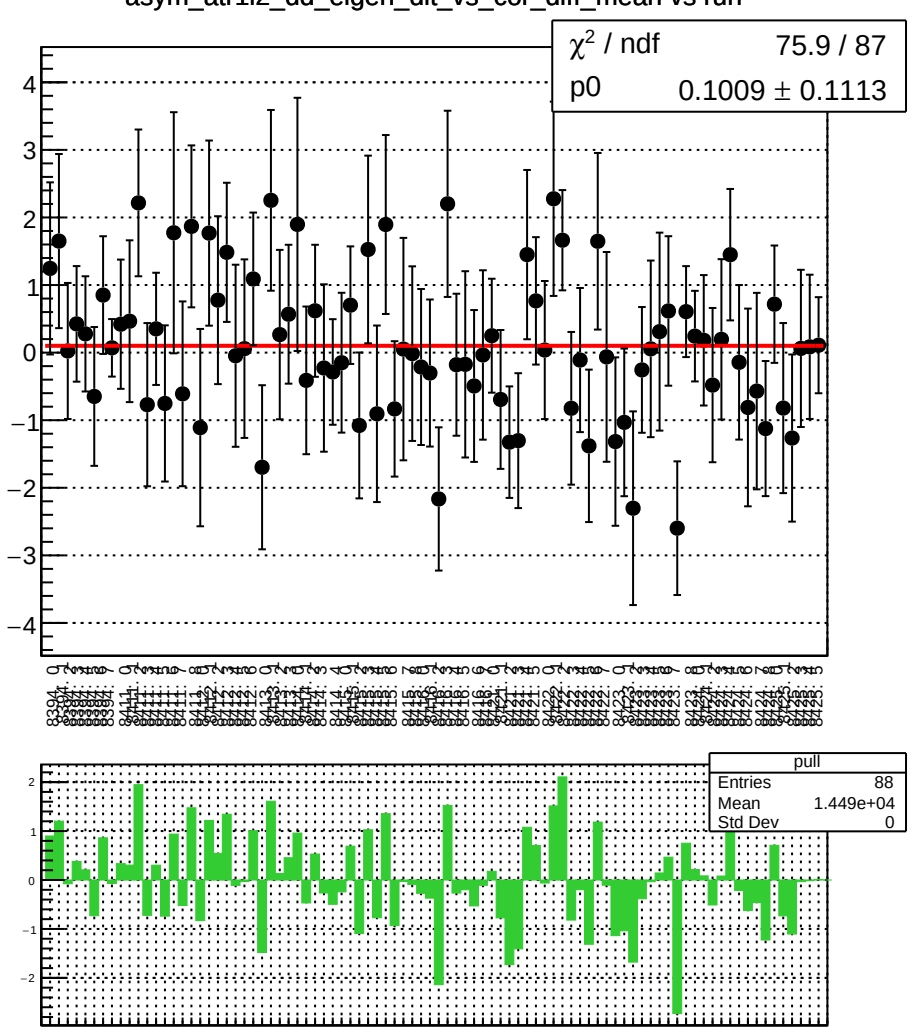

pull1D
Entries 88
Mean −0.0004156
Std Dev 0.9288

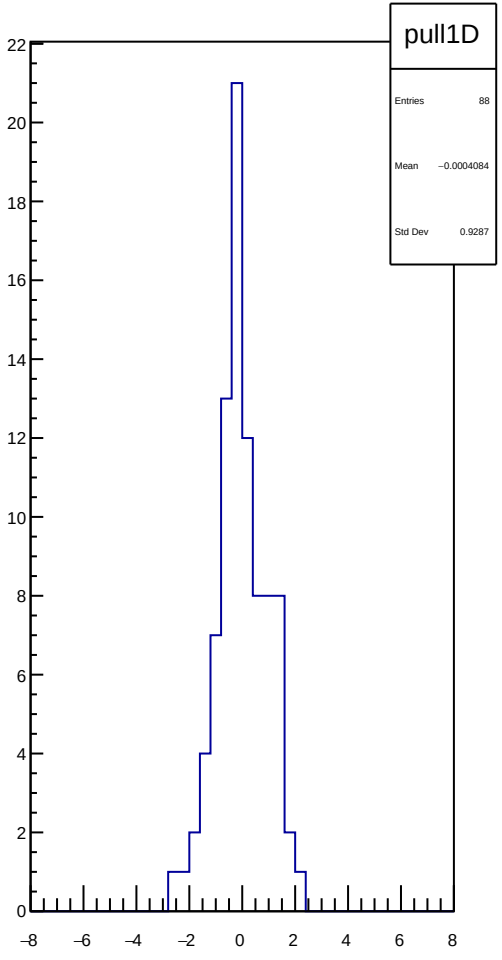

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.422e+04 / 87
p0 99.79 ± 0.07868
180
160
140
120
100
80
60

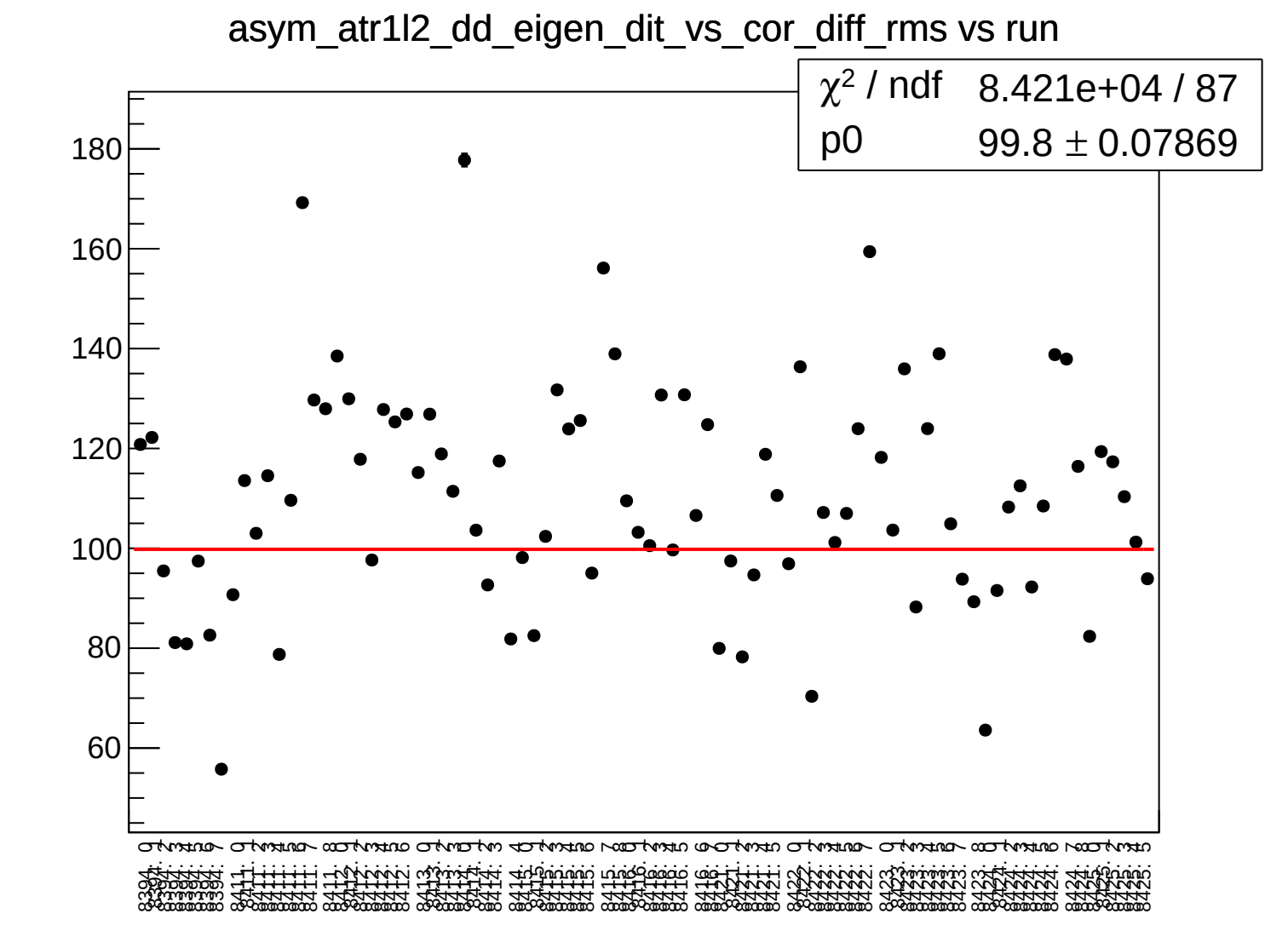

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 68.91 / 87
p0 4.272e−06 ± 1.396e−05
pull
Entries 88
Mean 128.2
Std Dev 0

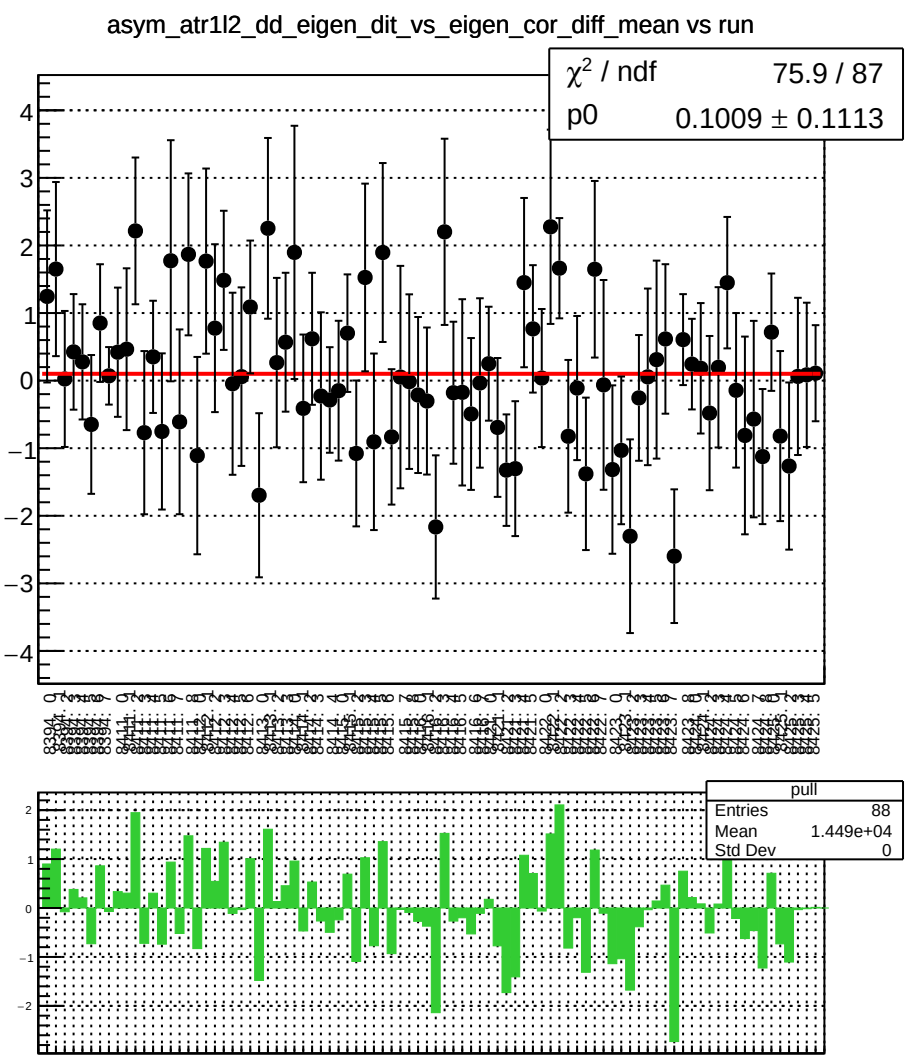

pull1D
Entries 88
Mean −0.03229
Std Dev 0.8843

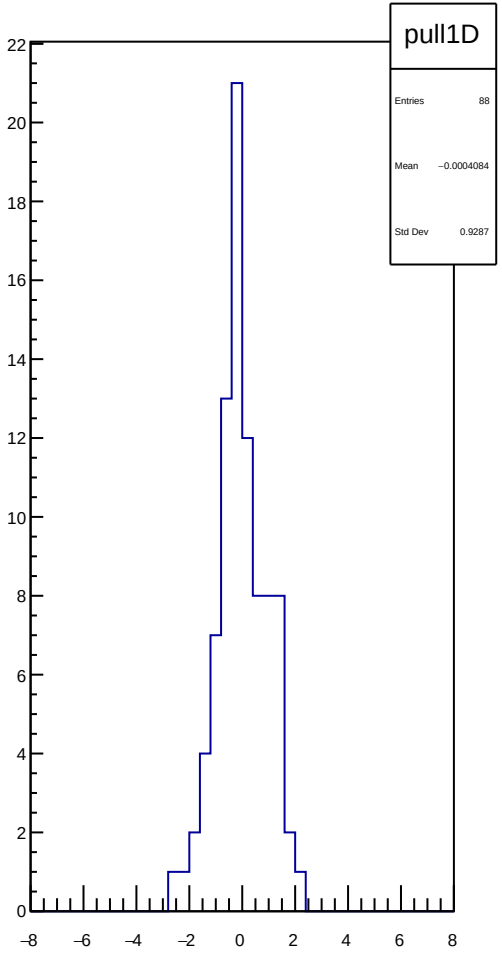

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.592e+05 / 87
p0 0.01182 ± 9.871e−06
0.03
0.025
0.02
0.015
0.01

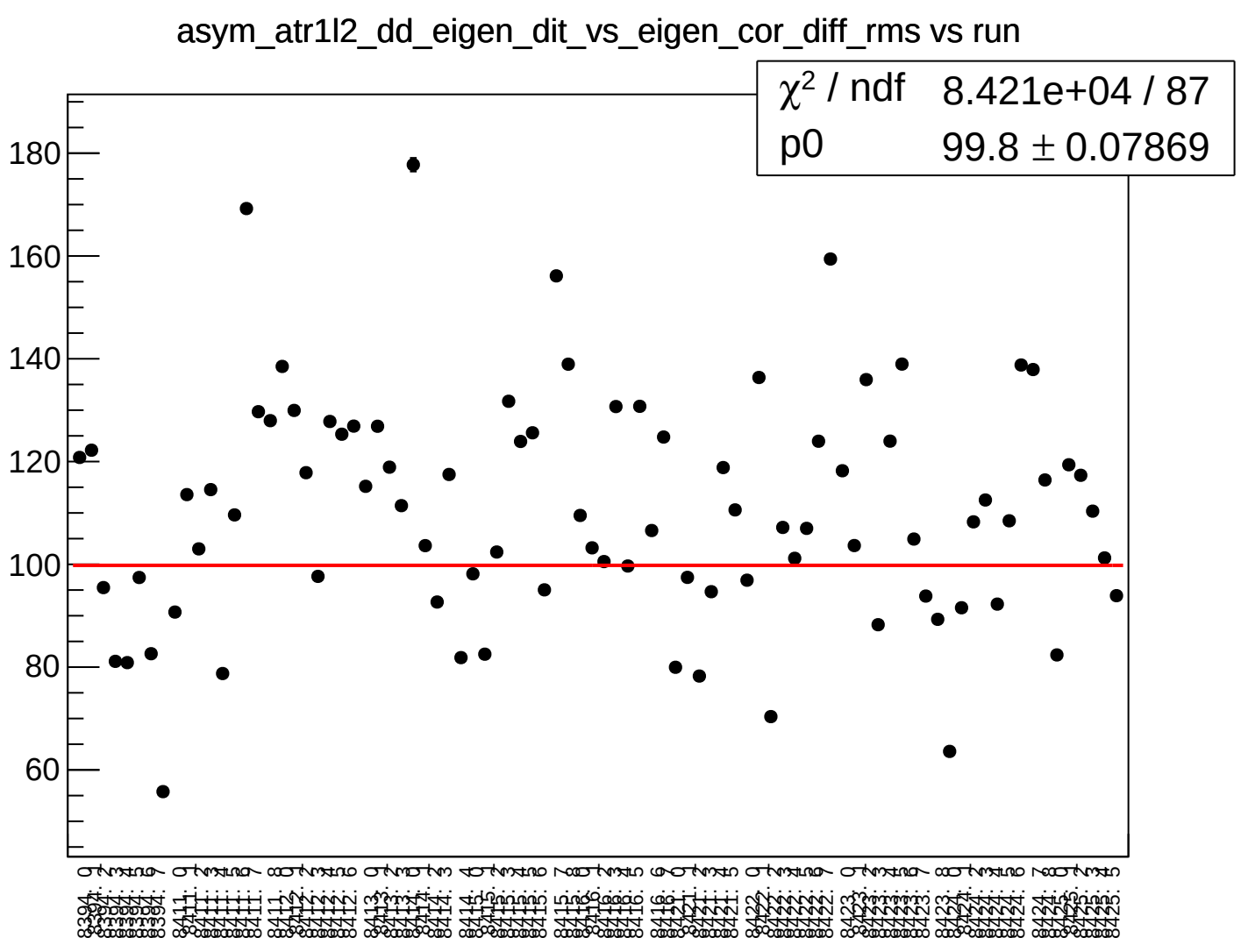

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.9 / 87
p0 0.1009 ± 0.1113
pull
Entries 88
Mean 1.449e+04
Std Dev 0

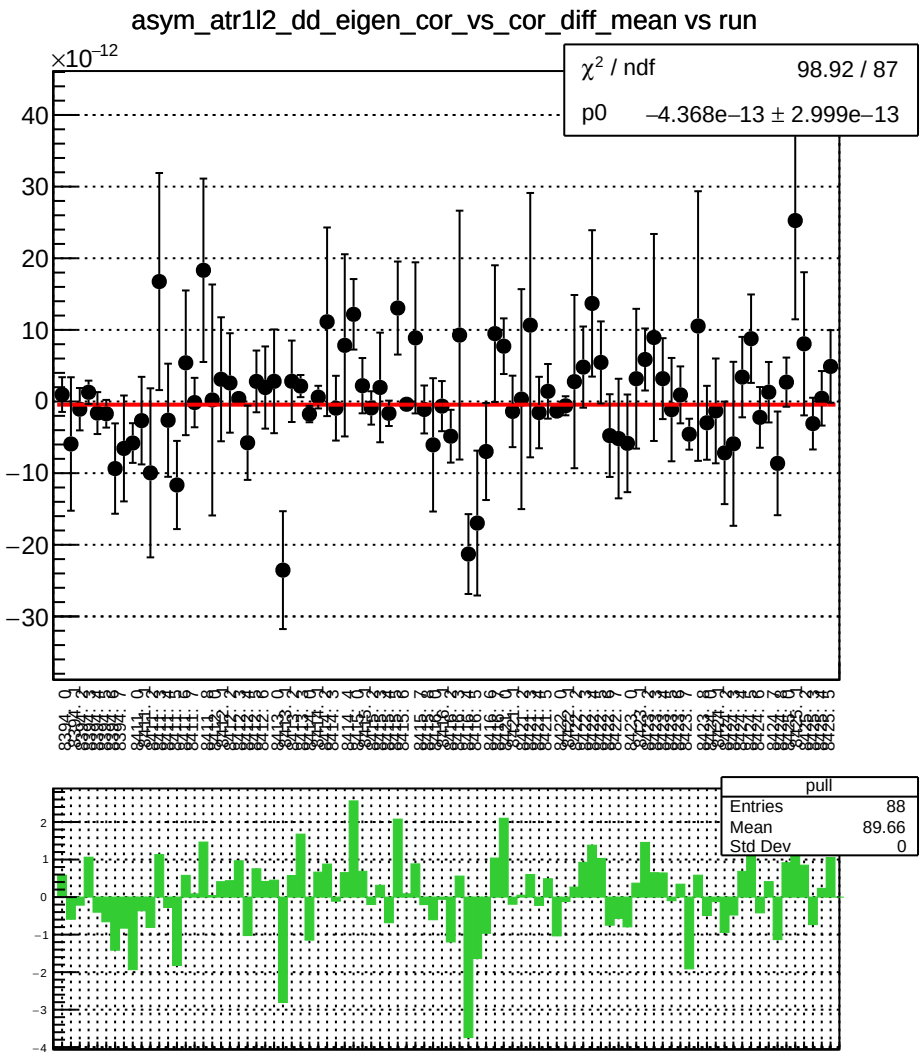

pull1D
Entries 88
Mean −0.0004084
Std Dev 0.9287

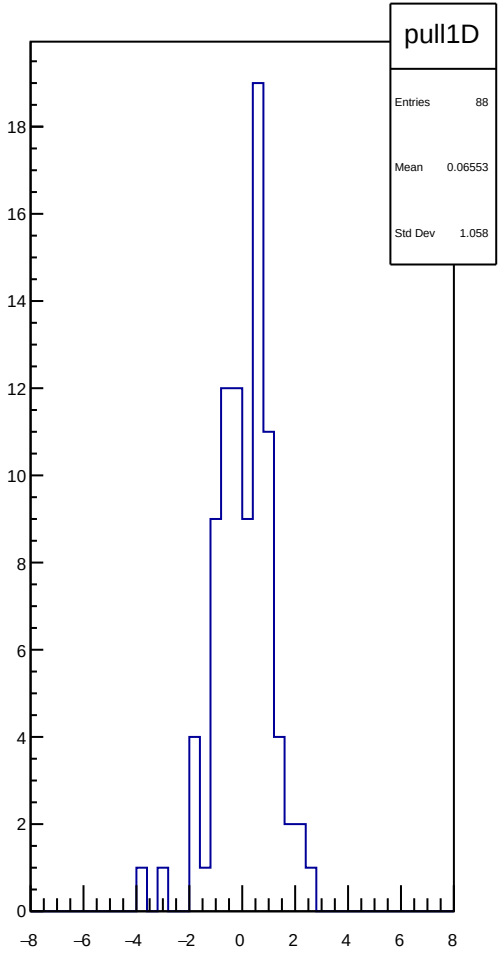

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.421e+04 / 87
p0 99.8 ± 0.07869
180
160
140
120
100
80
60

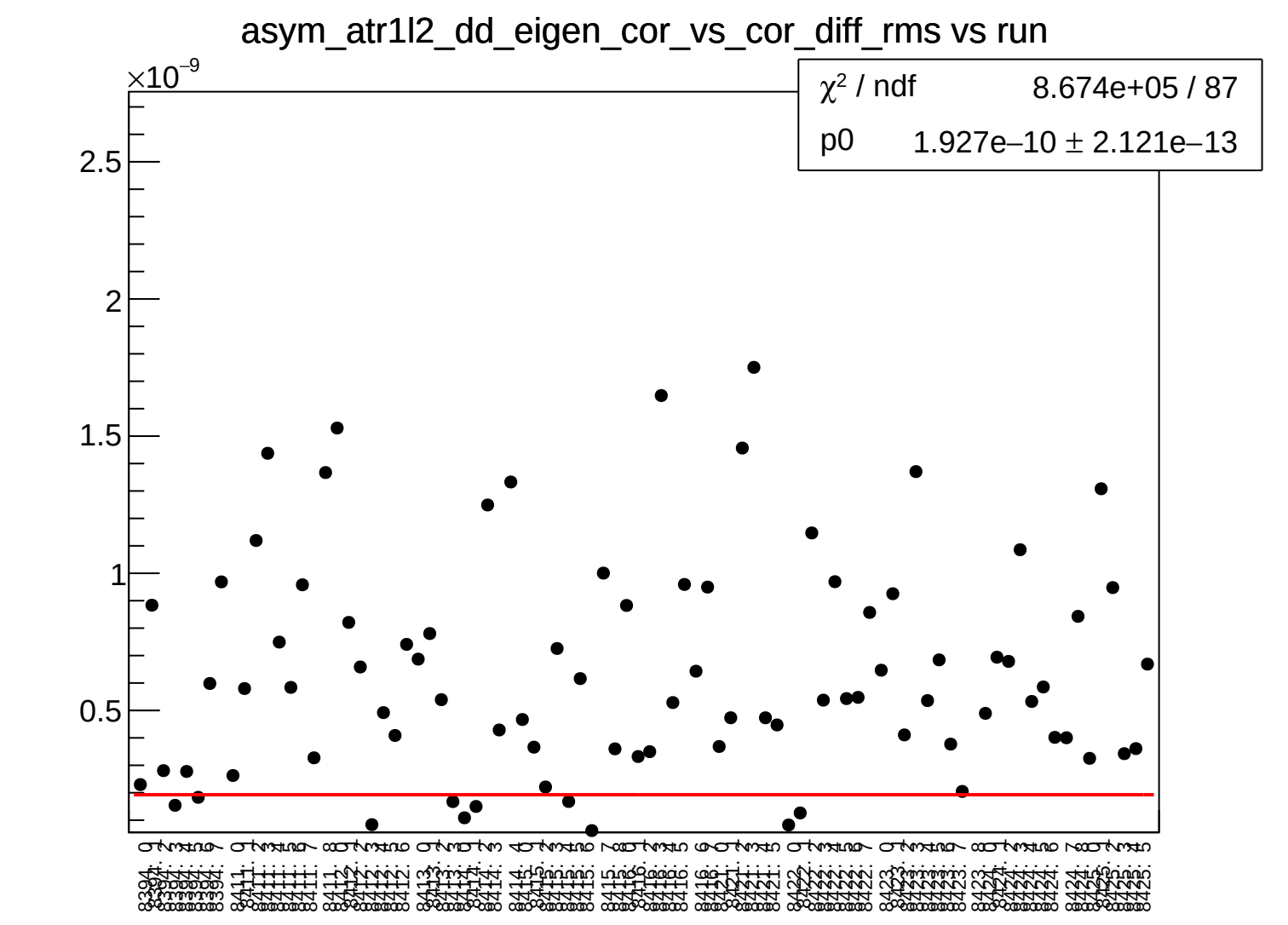

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.9 / 87
p0 0.1009 ± 0.1113
pull
Entries 88
Mean 1.449e+04
Std Dev 0

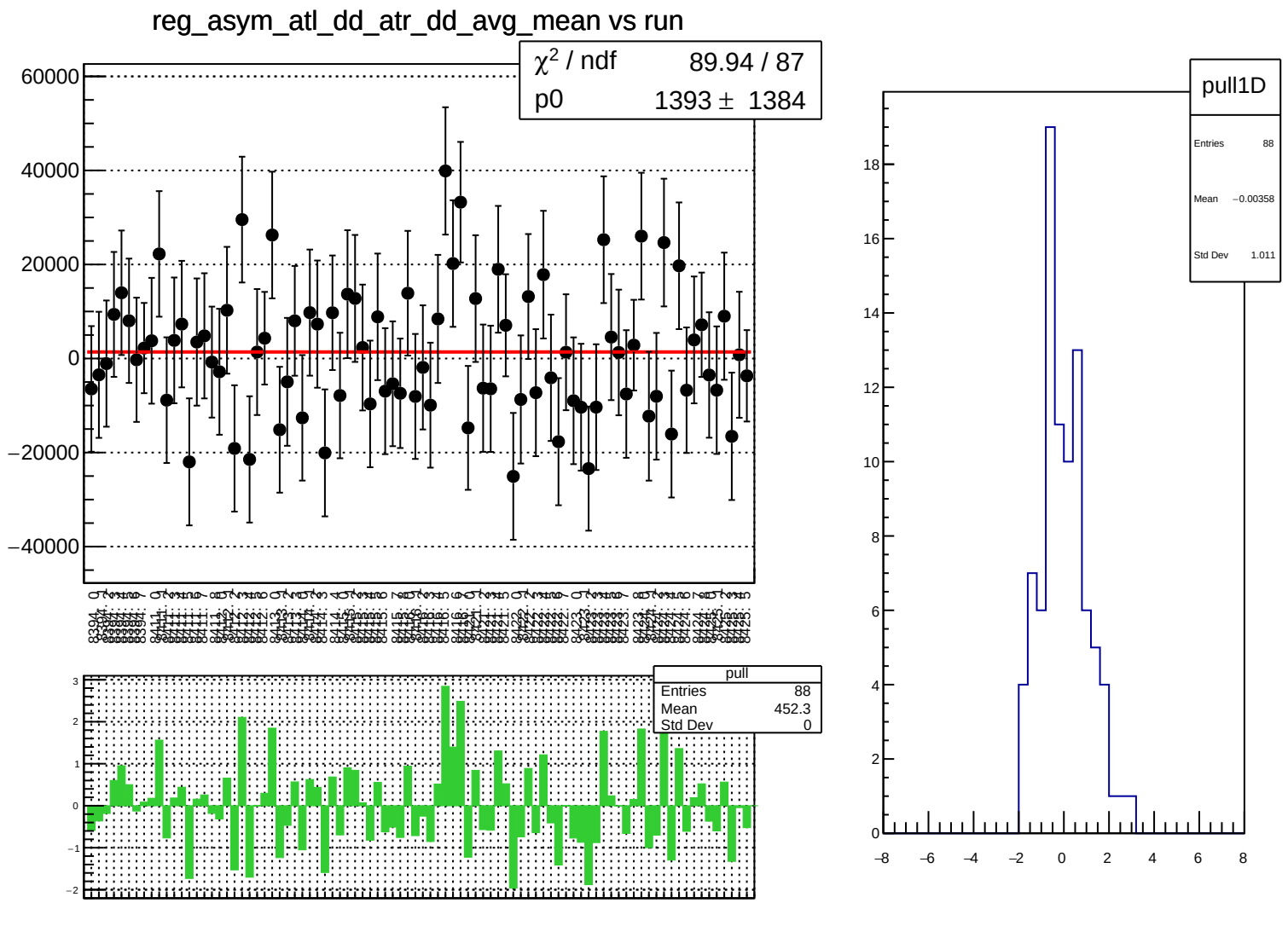

pull1D
Entries 88
Mean −0.0004084
Std Dev 0.9287

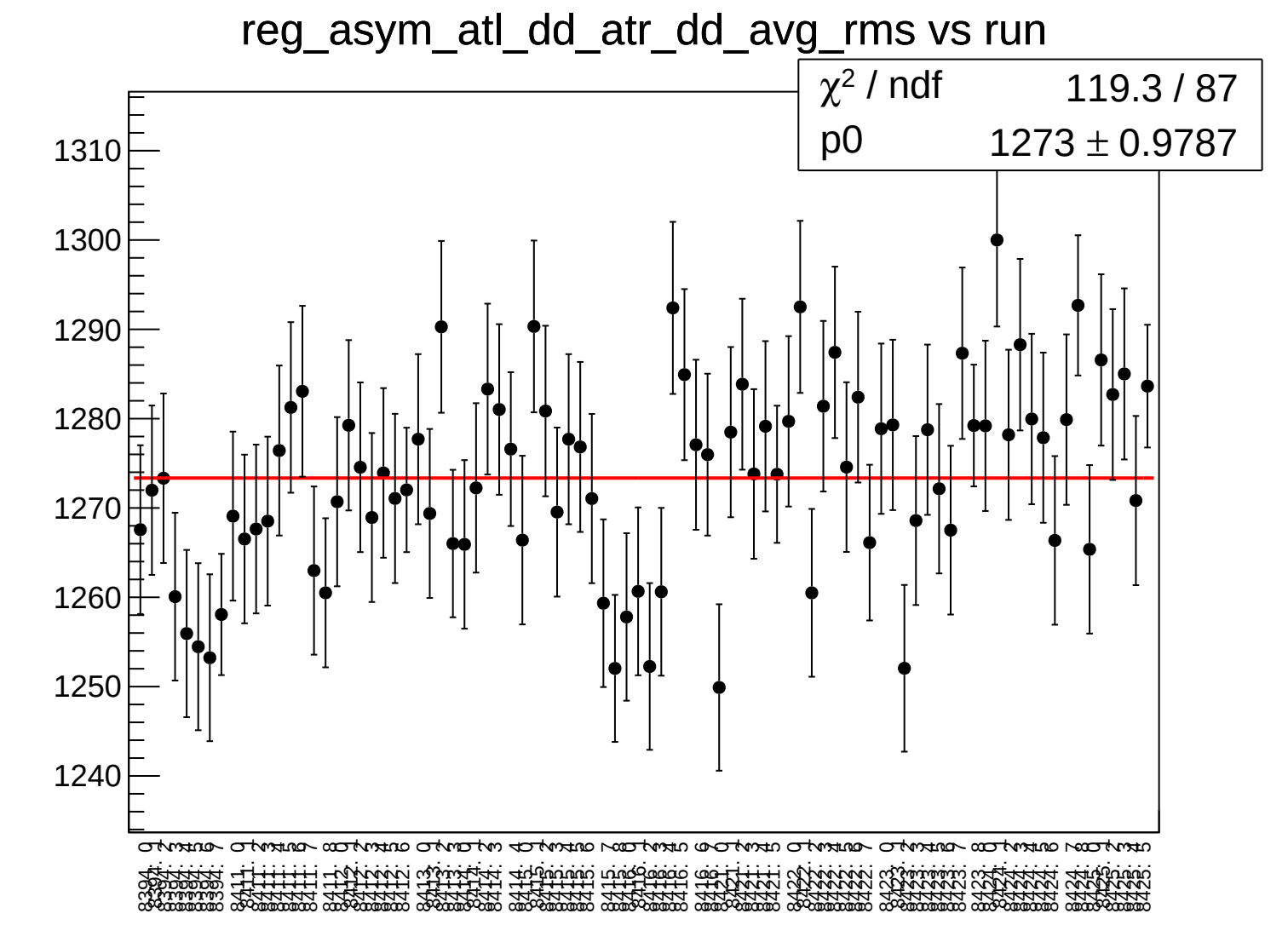

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.421e+04 / 87
p0 99.8 ± 0.07869
180
160
140
120
100
80
60

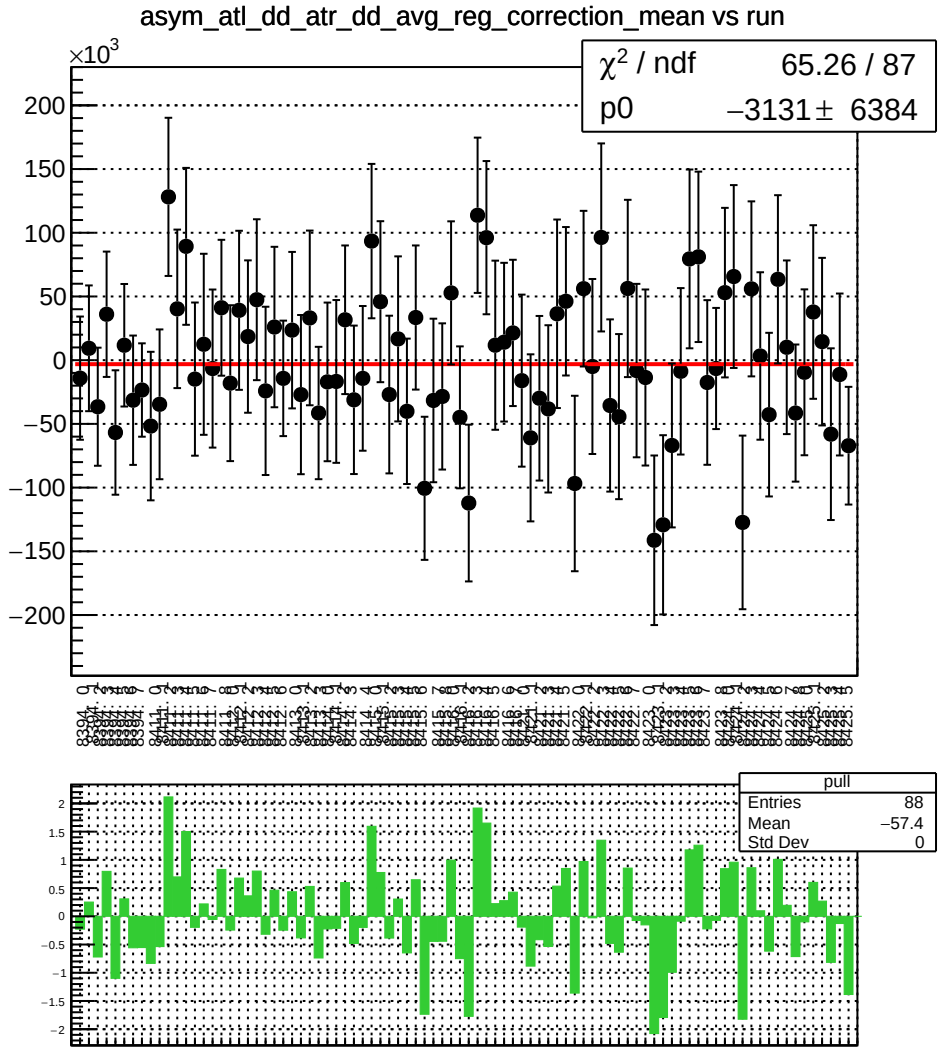

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.92 / 87
p0 −4.368e−13 ± 2.999e−13
pull
Entries 88
Mean 89.66
Std Dev 0

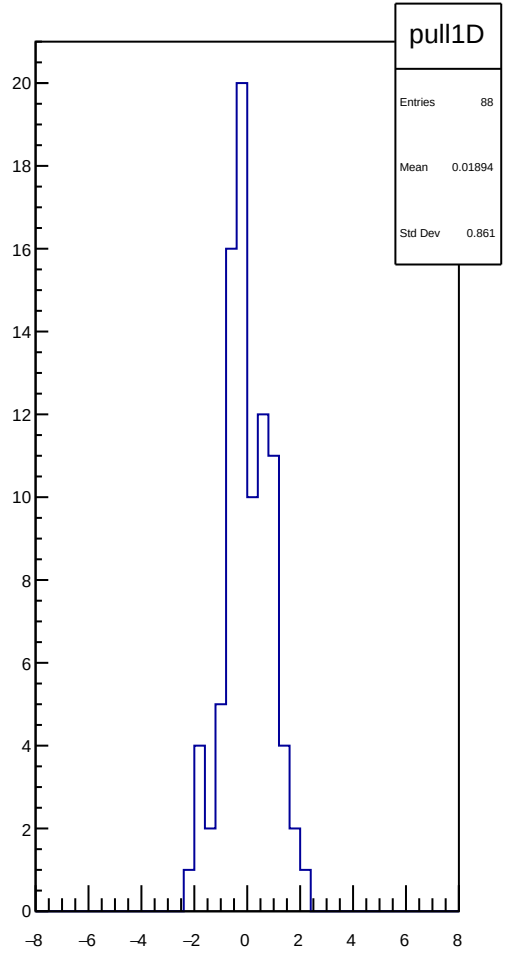

pull1D
Entries 88
Mean 0.06553
Std Dev 1.058

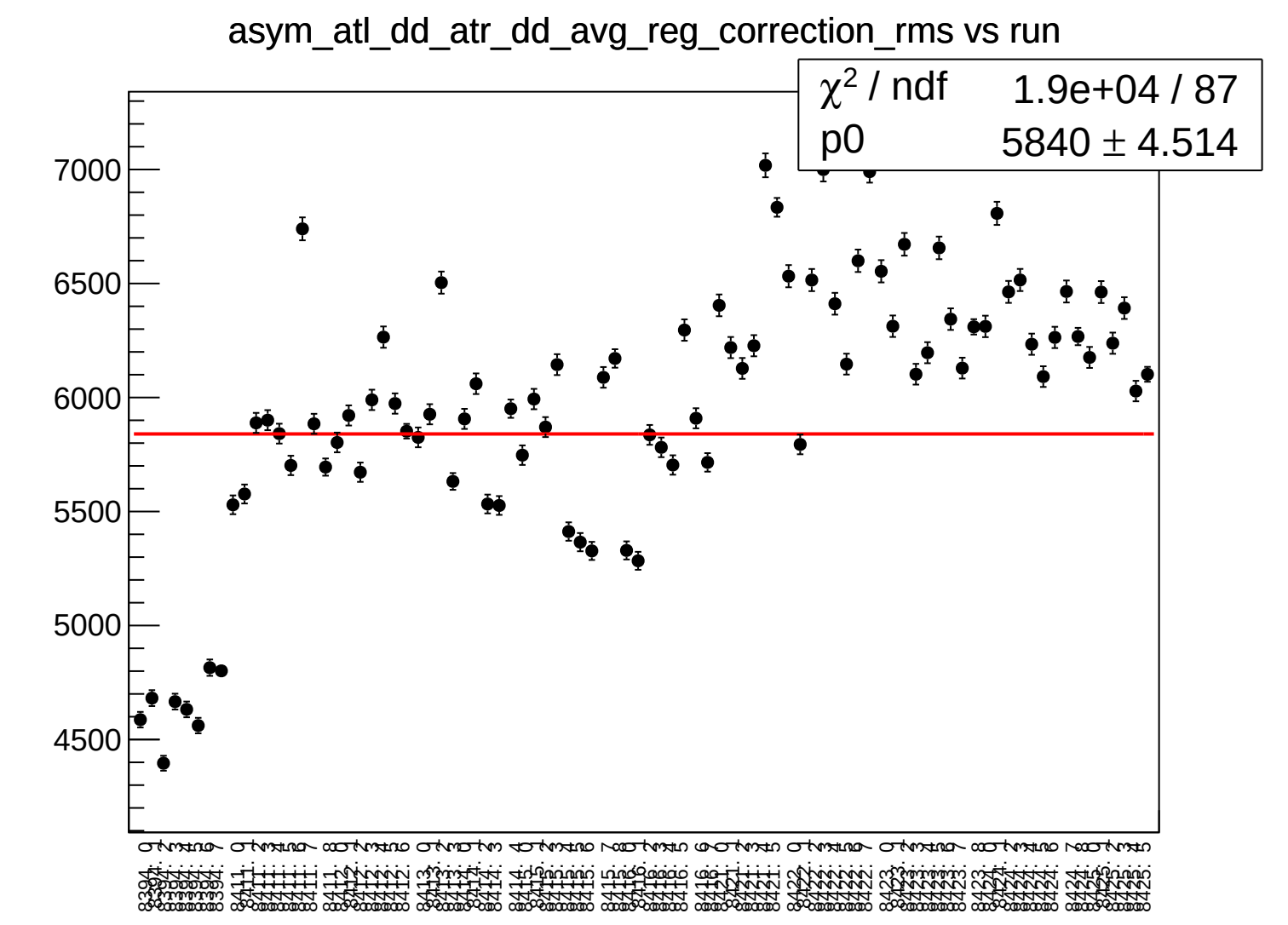

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.674e+05 / 87
p0 1.927e−10 ± 2.121e−13
2.5
2
1.5
1
0.5

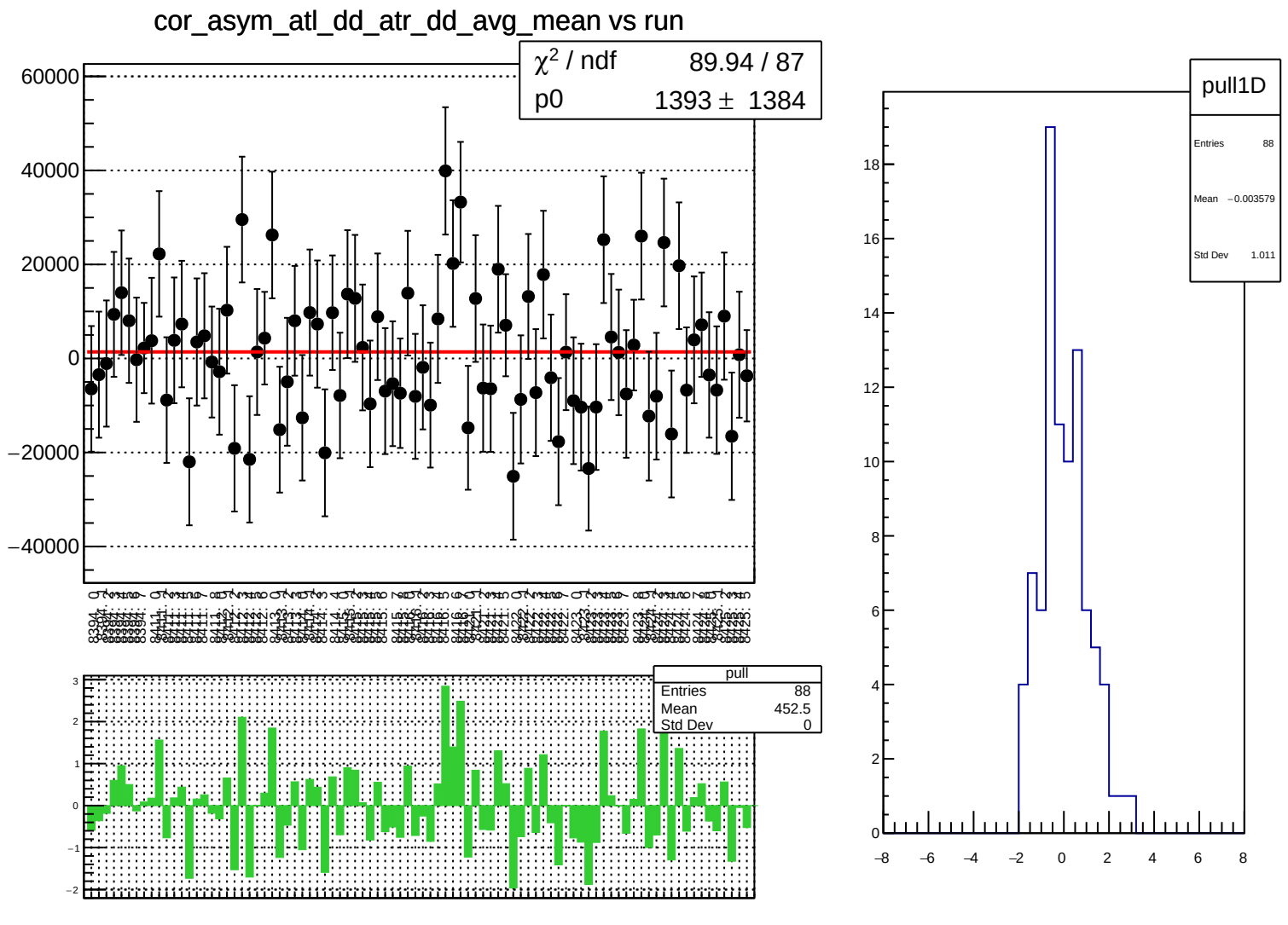

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 89.94 / 87
p0 1393 ± 1384
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 452.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.00358
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

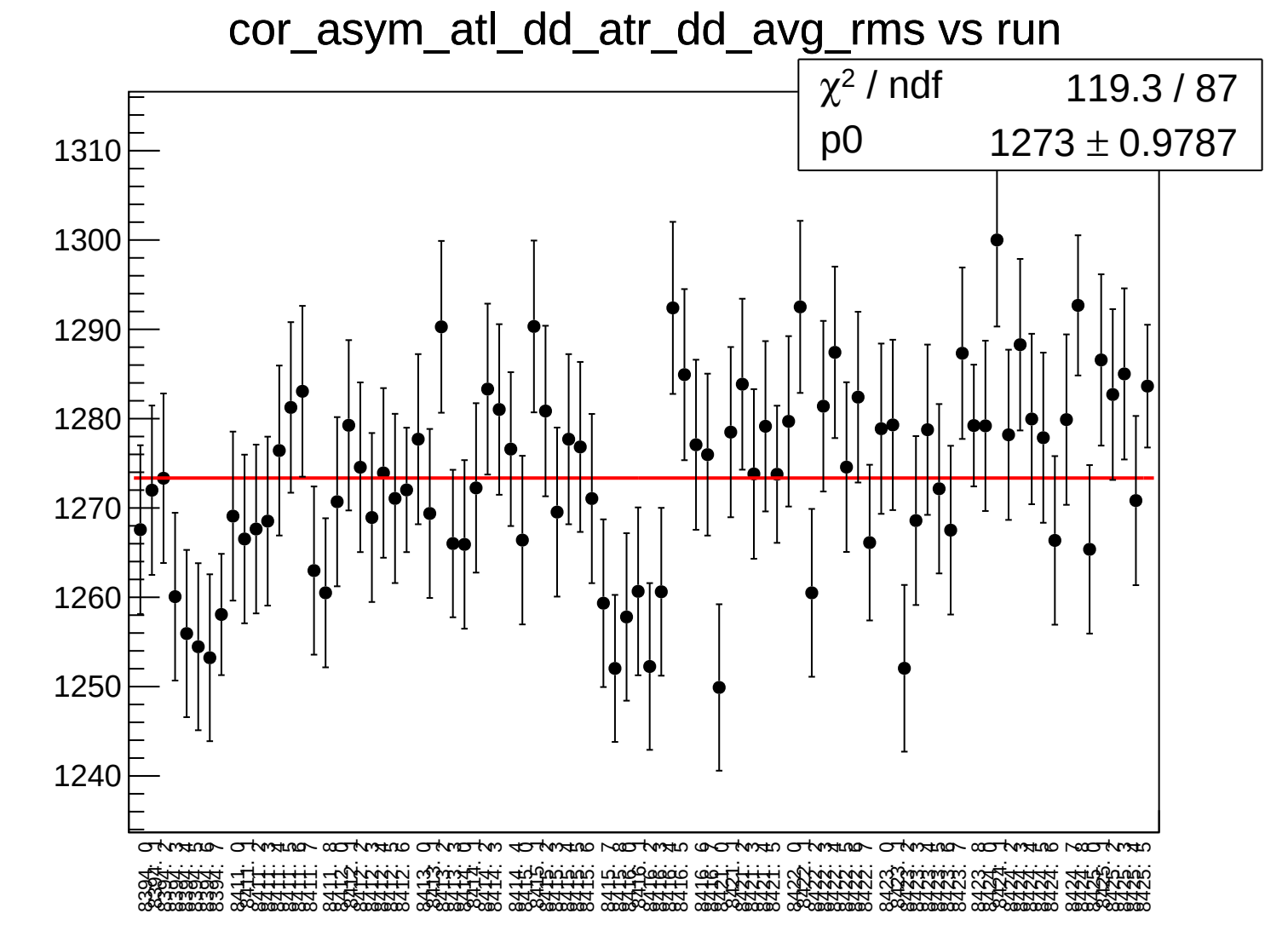

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 119.3 / 87
p0 1273 ± 0.9787
1310
1300
1290
1280
1270
1260
1250
1240


asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 65.26 / 87
p0 −3131 ± 6384
pull
Entries 88
Mean −57.4
Std Dev 0

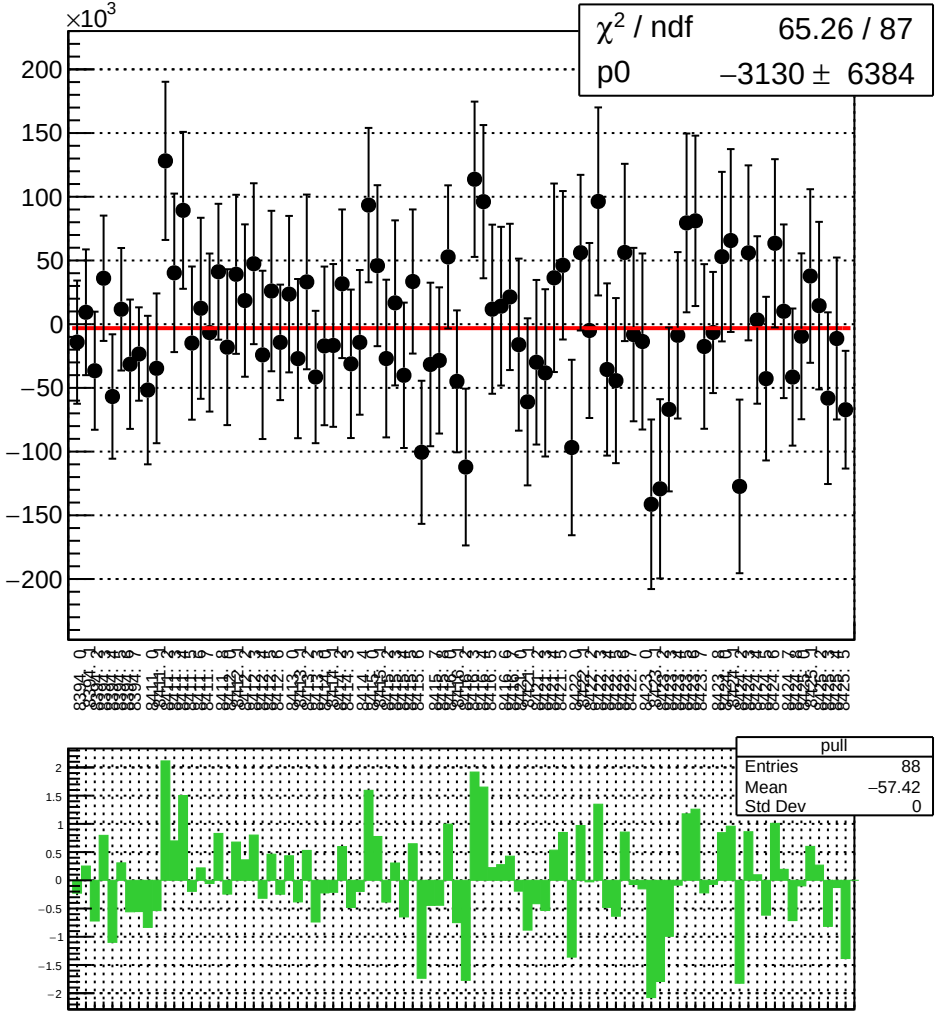

pull1D
Entries 88
Mean 0.01894
Std Dev 0.861

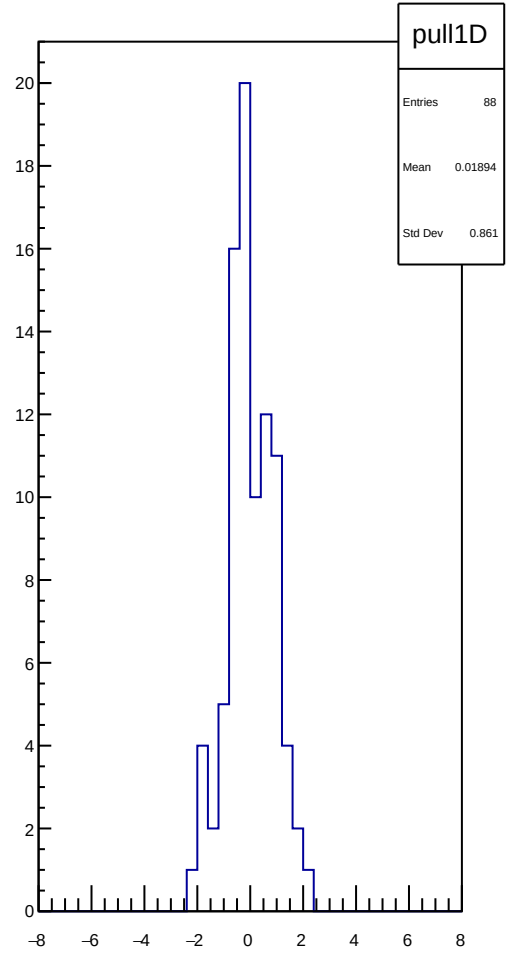

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.9e+04 / 87
p0 5840 ± 4.514
7000
6500
6000
5500
5000
4500

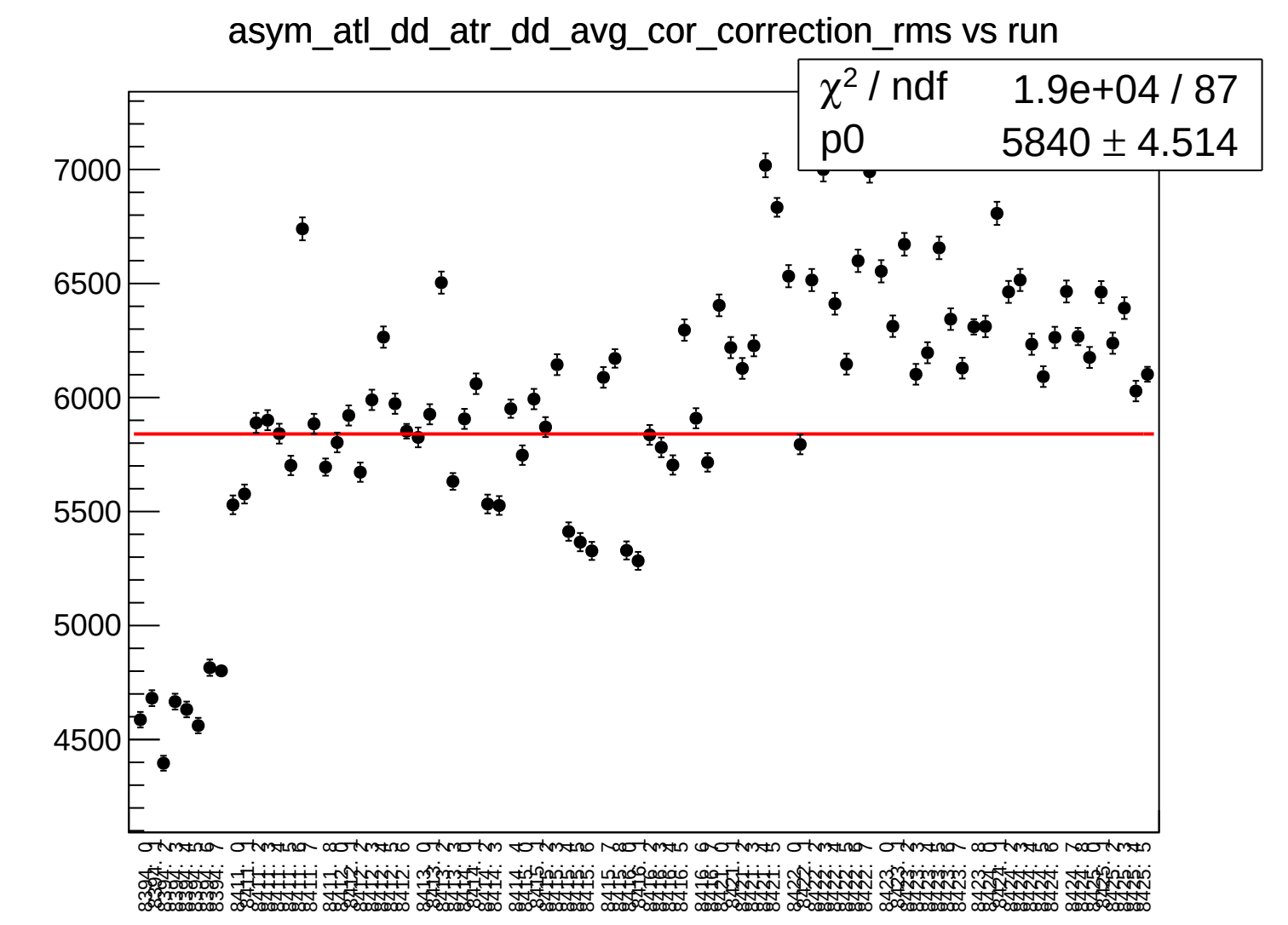

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 89.94 / 87
p0 1393 ± 1384
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 452.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.003579
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

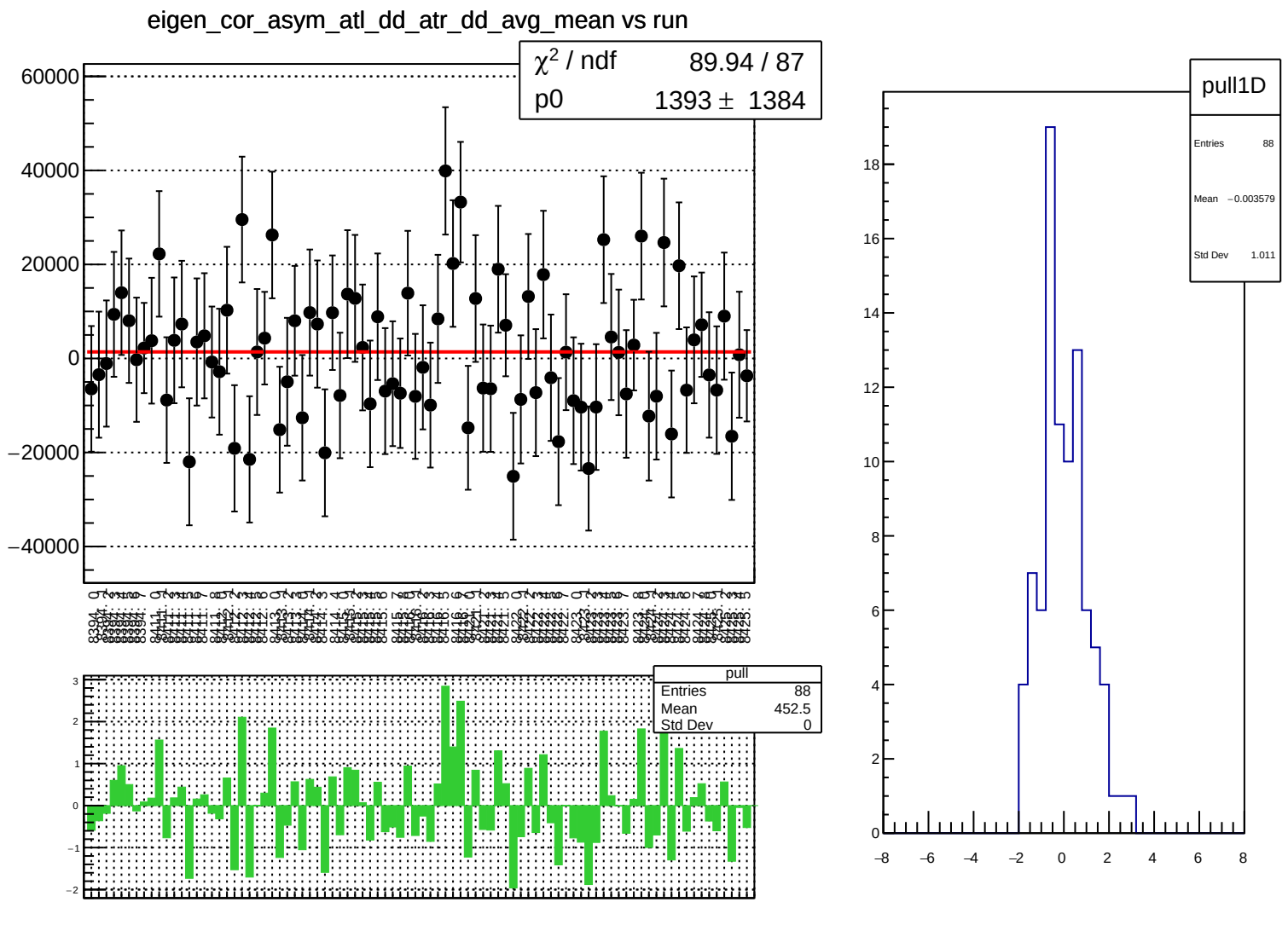

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 119.3 / 87
p0 1273 ± 0.9787
1310
1300
1290
1280
1270
1260
1250
1240

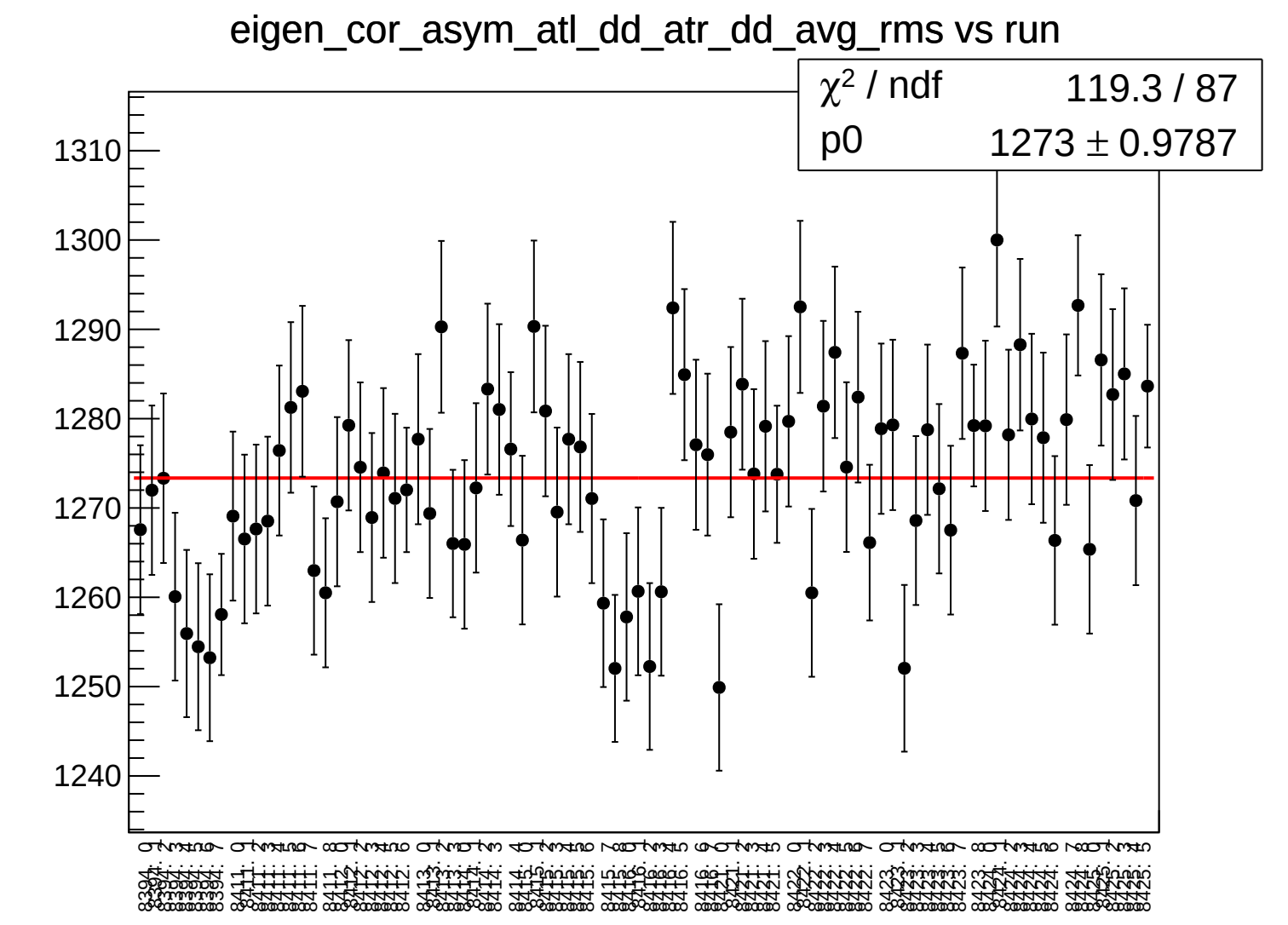
asym_atl_dd_atr_dd_avg_cor_correction_mean vs run

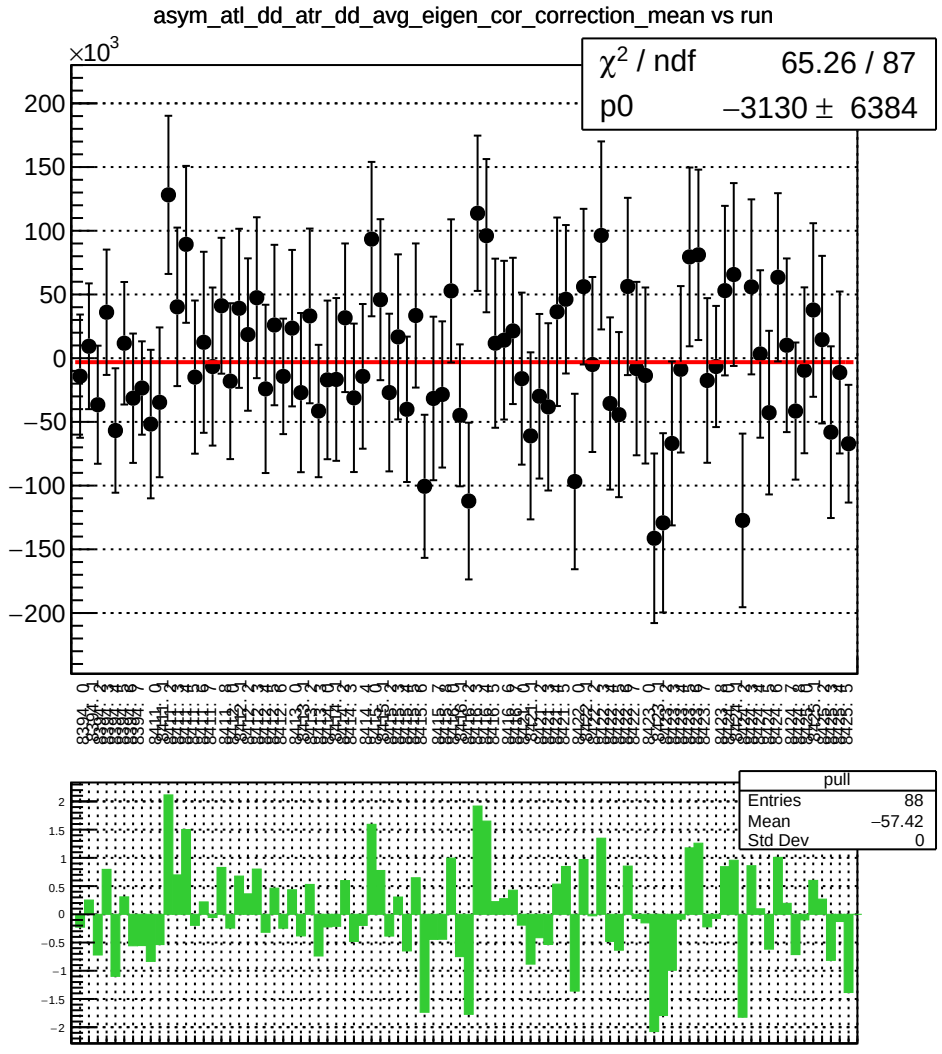


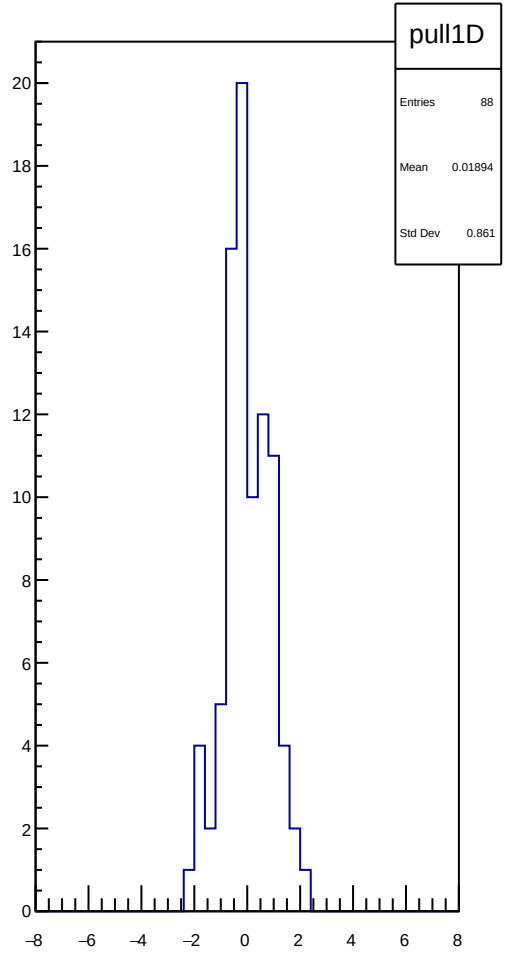


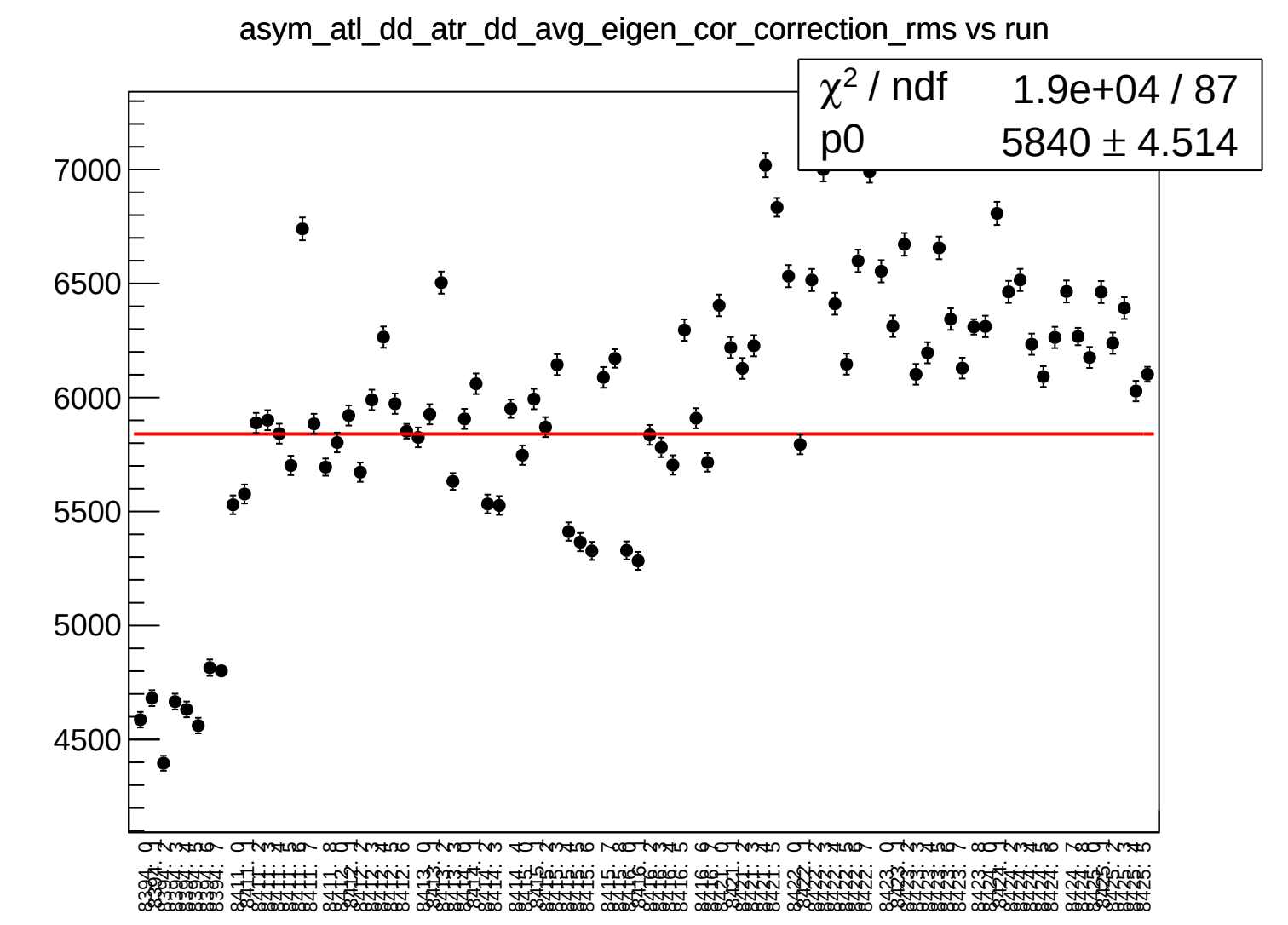

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.9e+04 / 87
p0 5840 ± 4.514
7000
6500
6000
5500
5000
4500

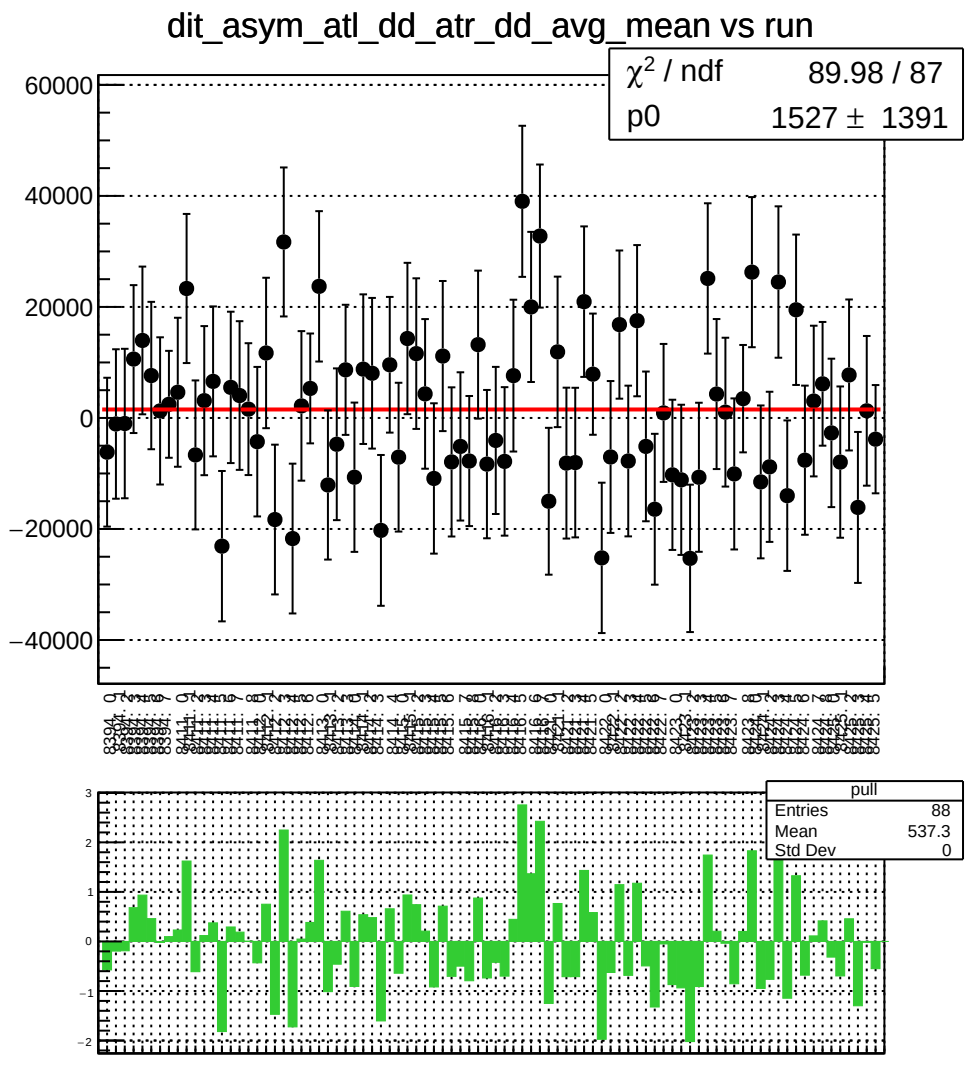

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 89.94 / 87
p0 1393 ± 1384
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 452.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.003579
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

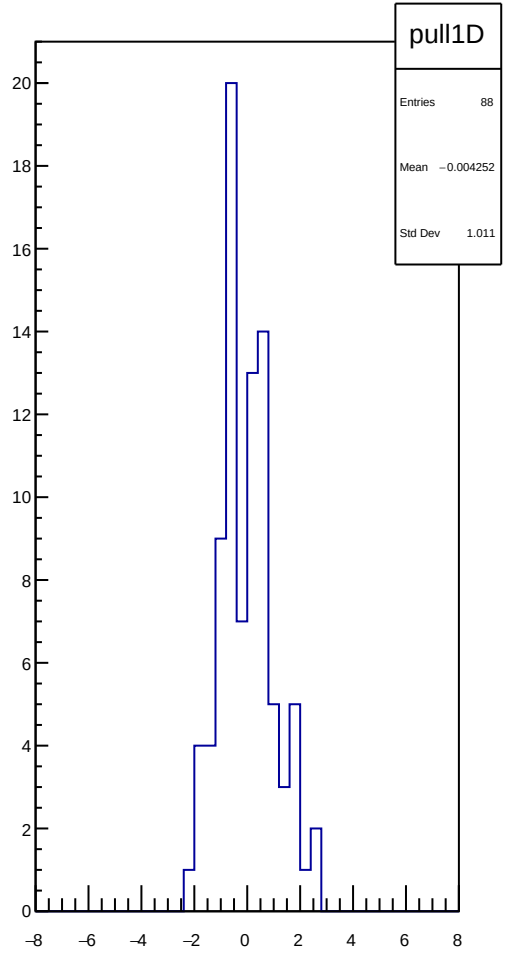

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 119.3 / 87
p0 1273 ± 0.9787
1310
1300
1290
1280
1270
1260
1250
1240

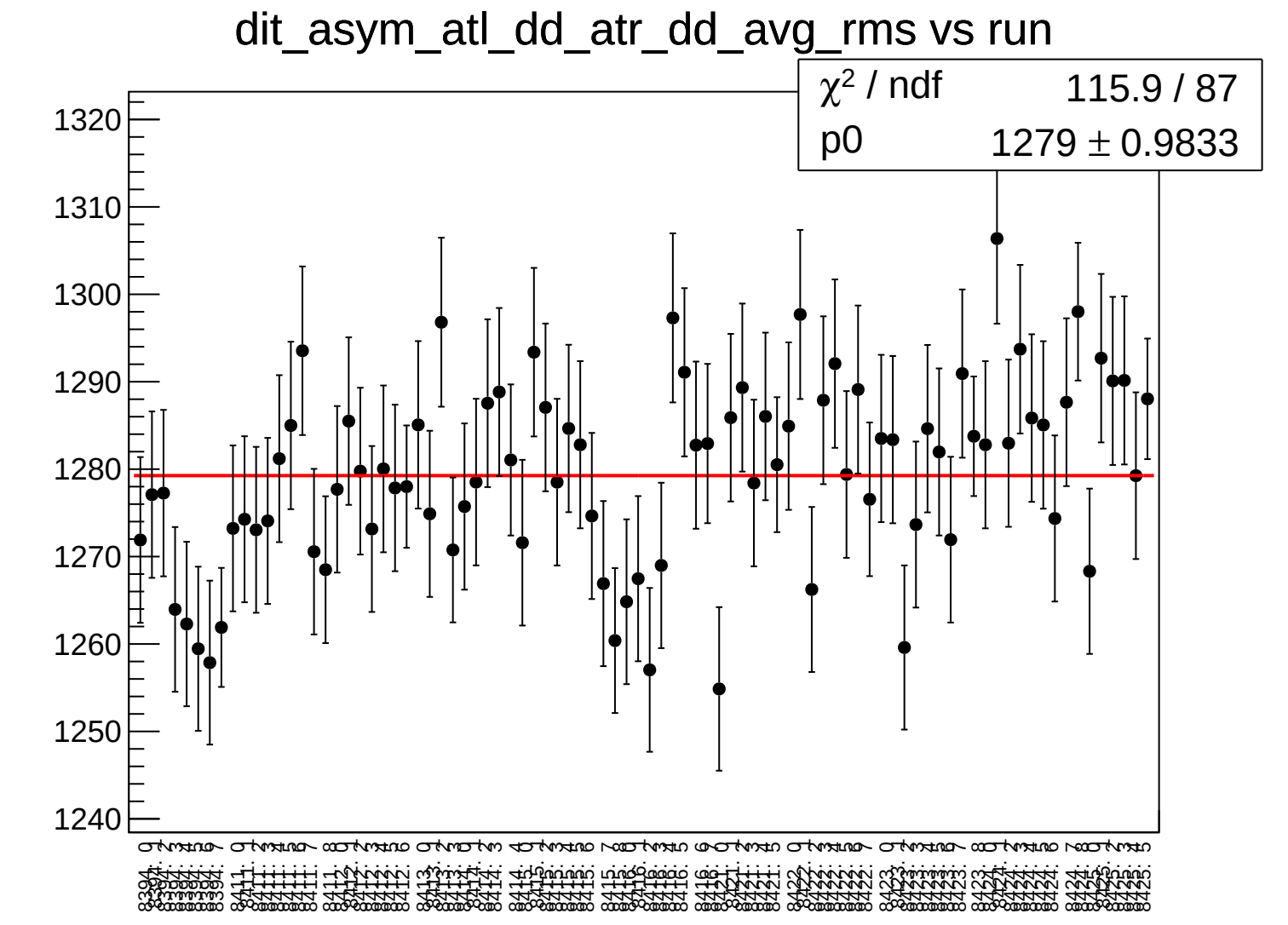

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 65.26 / 87
p0 −3130 ± 6384
pull
Entries 88
Mean −57.42
Std Dev 0

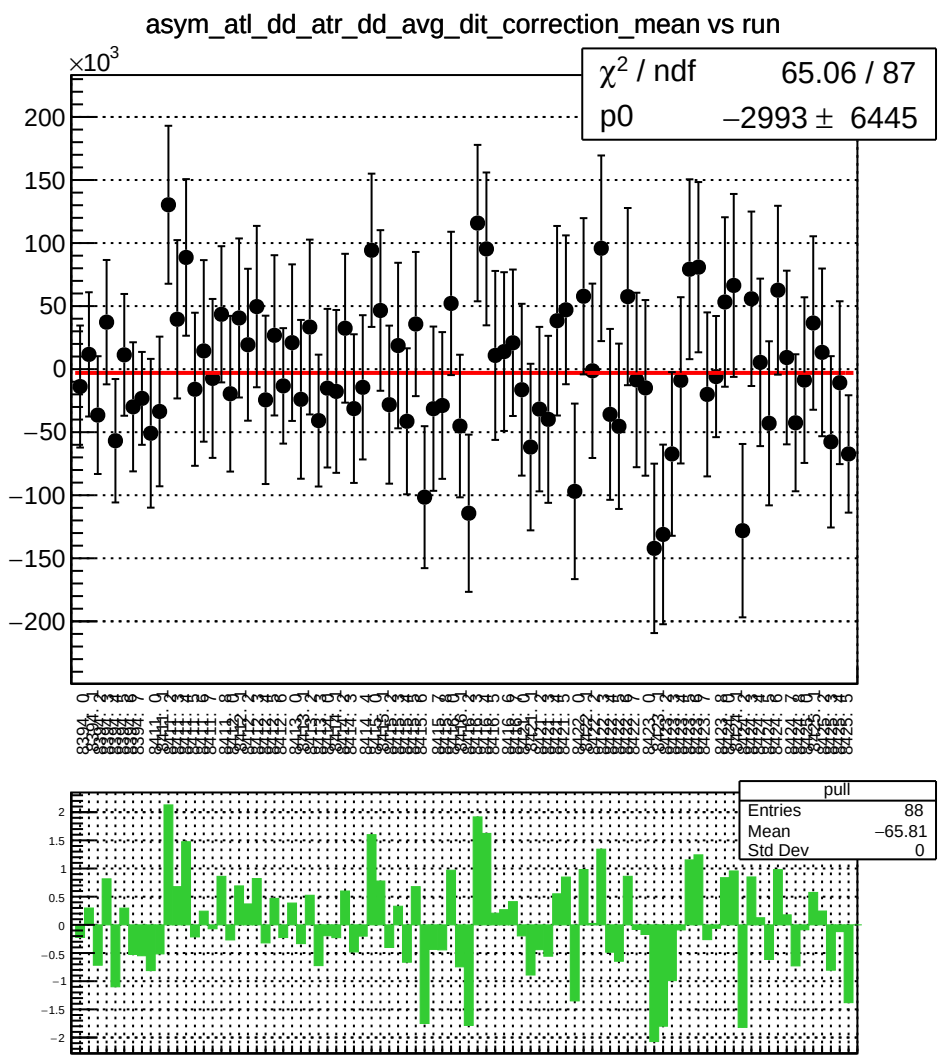

pull1D
Entries 88
Mean 0.01894
Std Dev 0.861

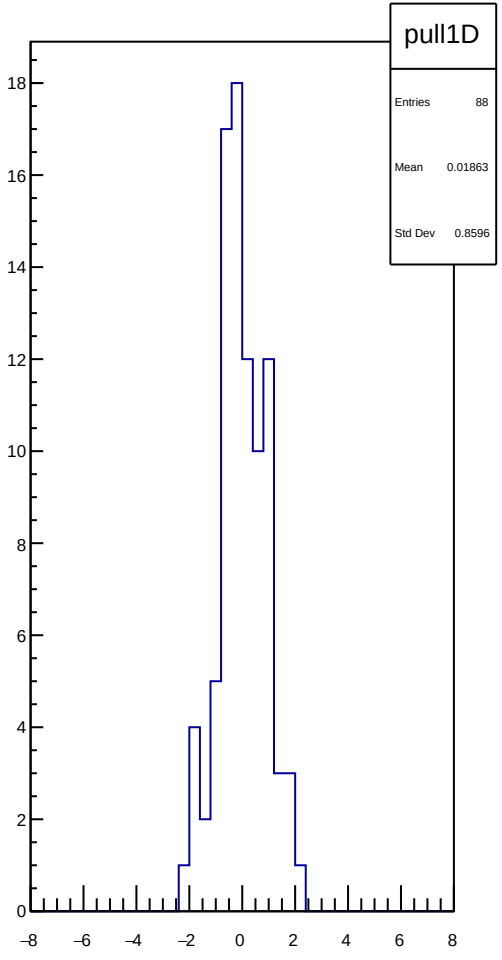

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.9e+04 / 87
p0 5840 ± 4.514
7000
6500
6000
5500
5000
4500

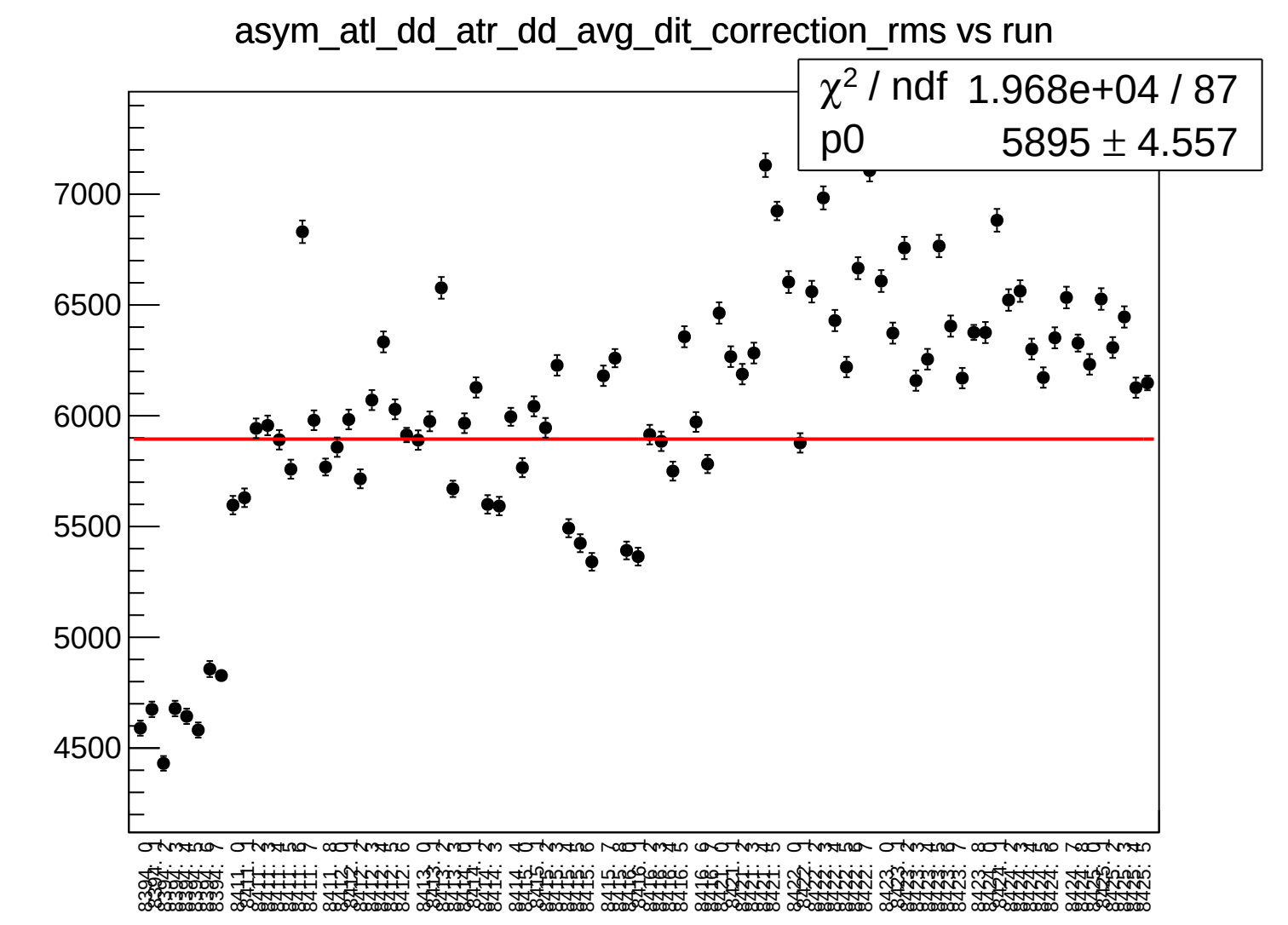

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 89.98 / 87
p0 1527 ± 1391
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 537.3
Std Dev 0
3
2
1
0
−1
−2

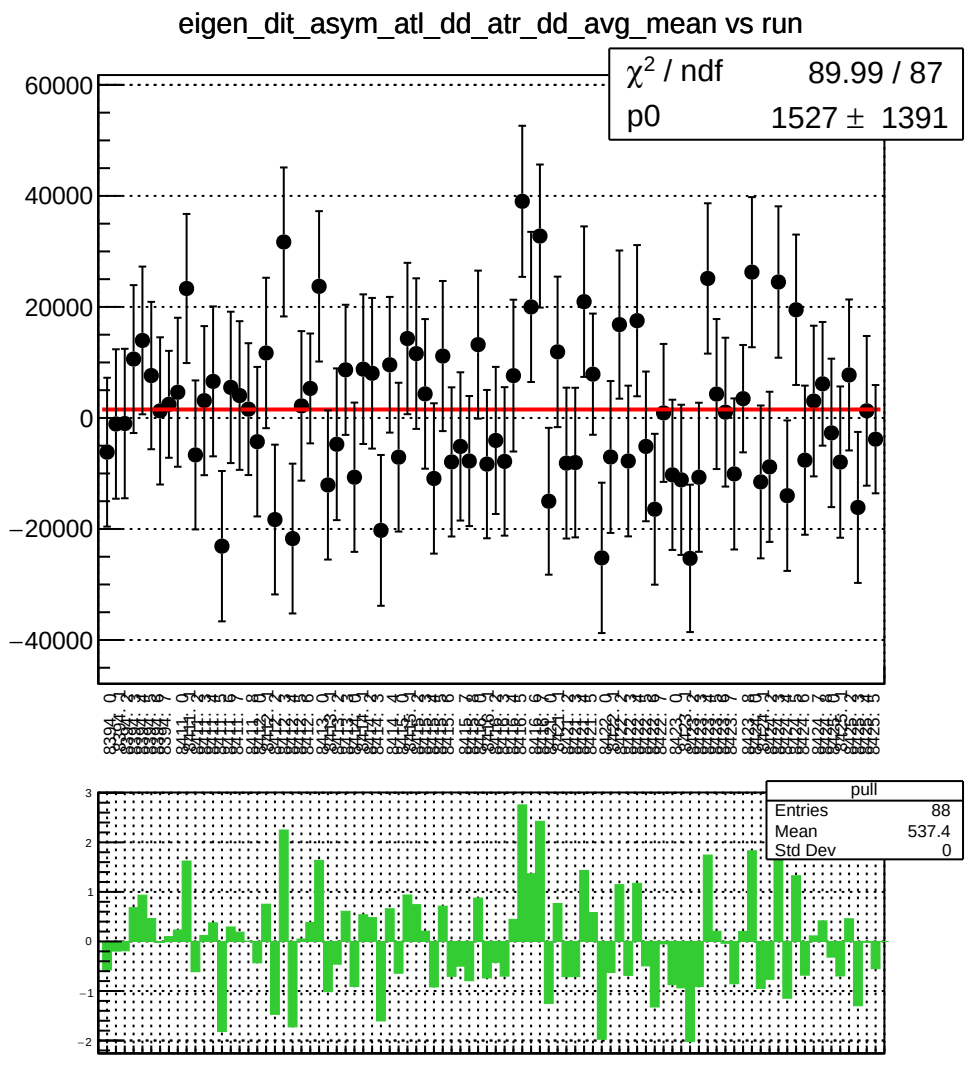

pull1D
Entries 88
Mean −0.004252
Std Dev 1.011
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

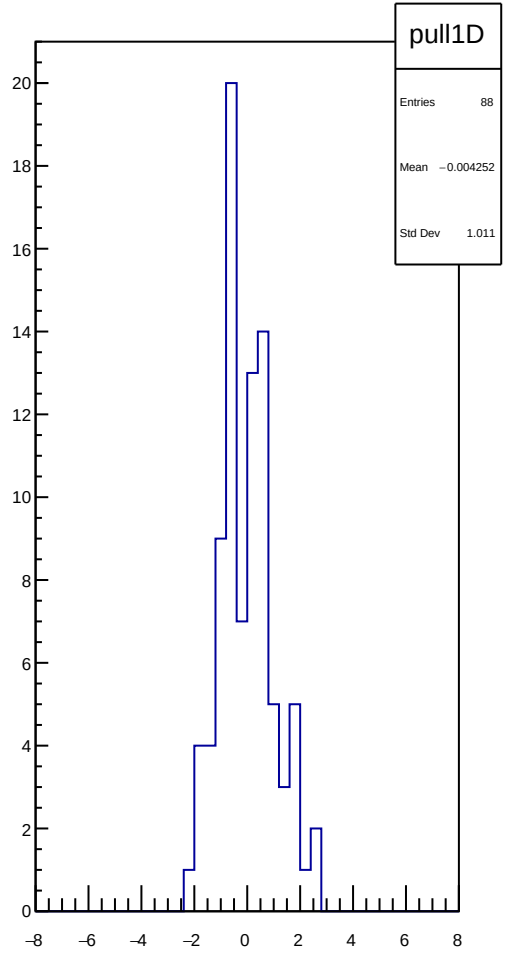

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 115.9 / 87
p0 1279 ± 0.9833
1320
1310
1300
1290
1280
1270
1260
1250
1240

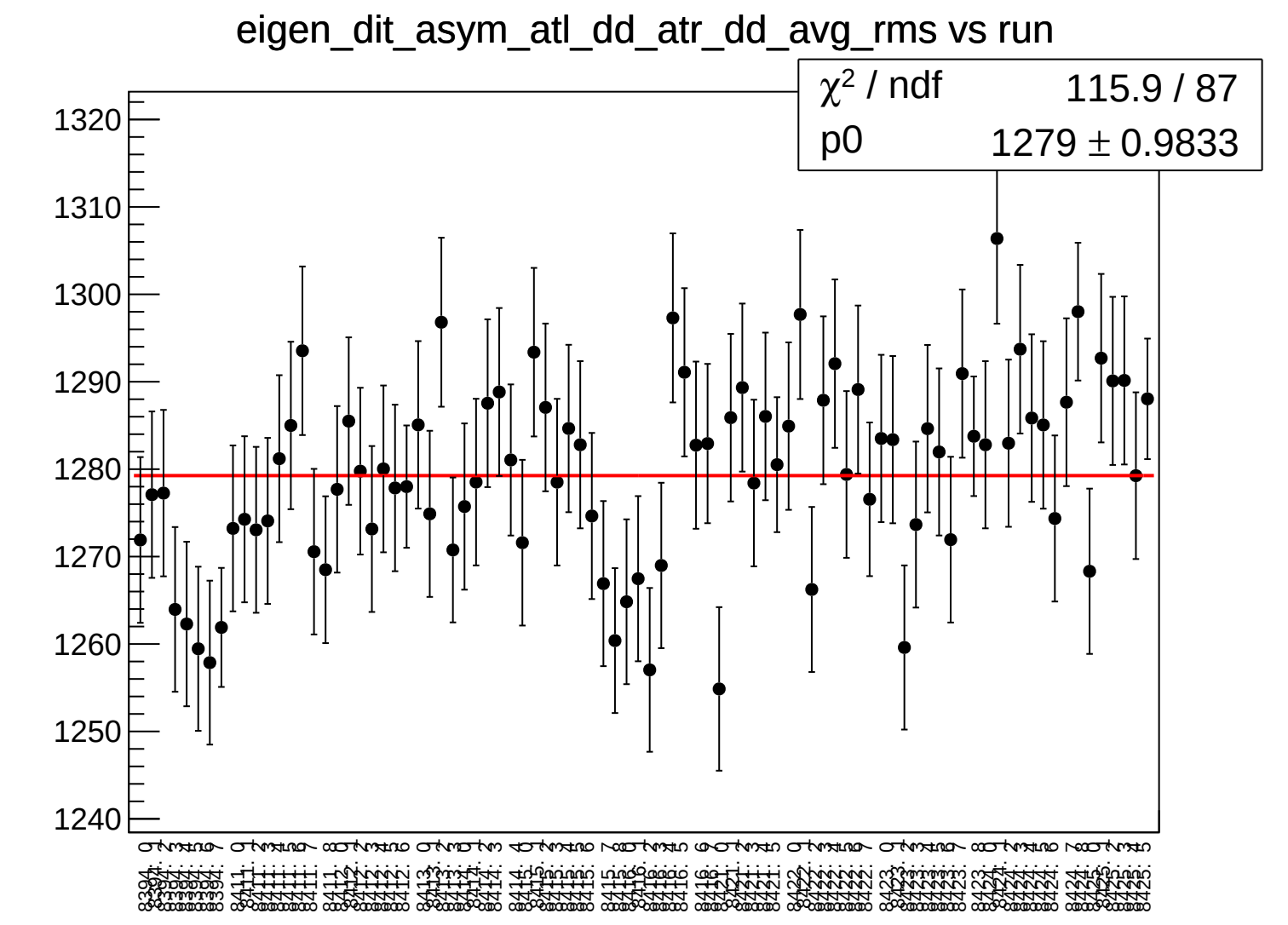

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 65.06 / 87
p0 −2993 ± 6445
pull
Entries 88
Mean −65.81
Std Dev 0

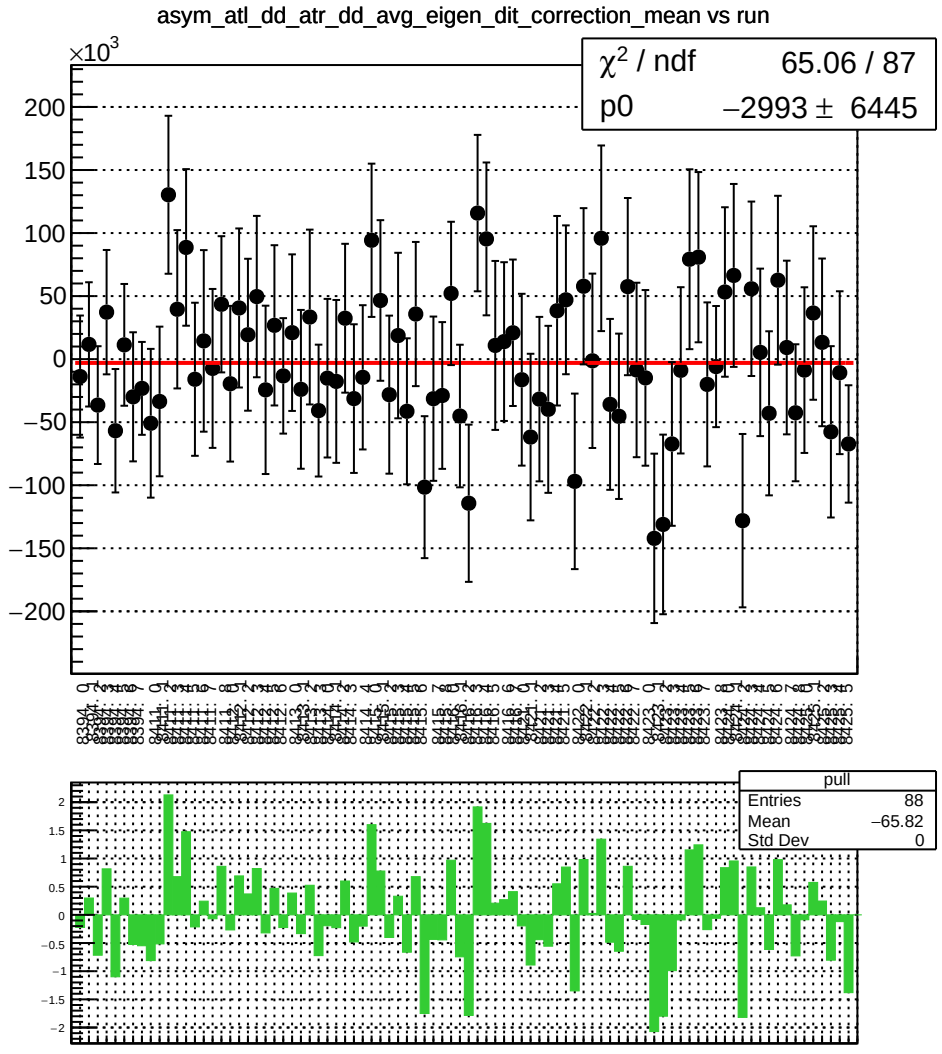

pull1D
Entries 88
Mean 0.01863
Std Dev 0.8596

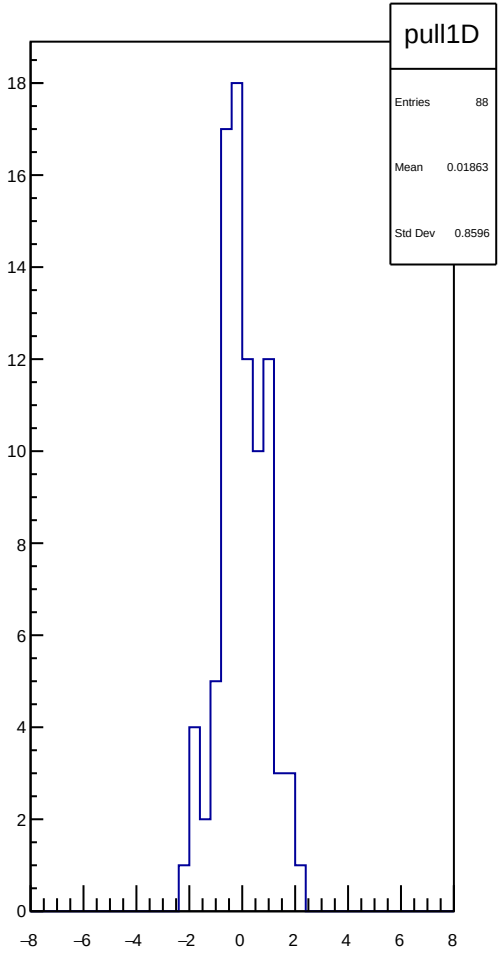

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.968e+04 / 87
p0 5895 ± 4.557
7000
6500
6000
5500
5000
4500

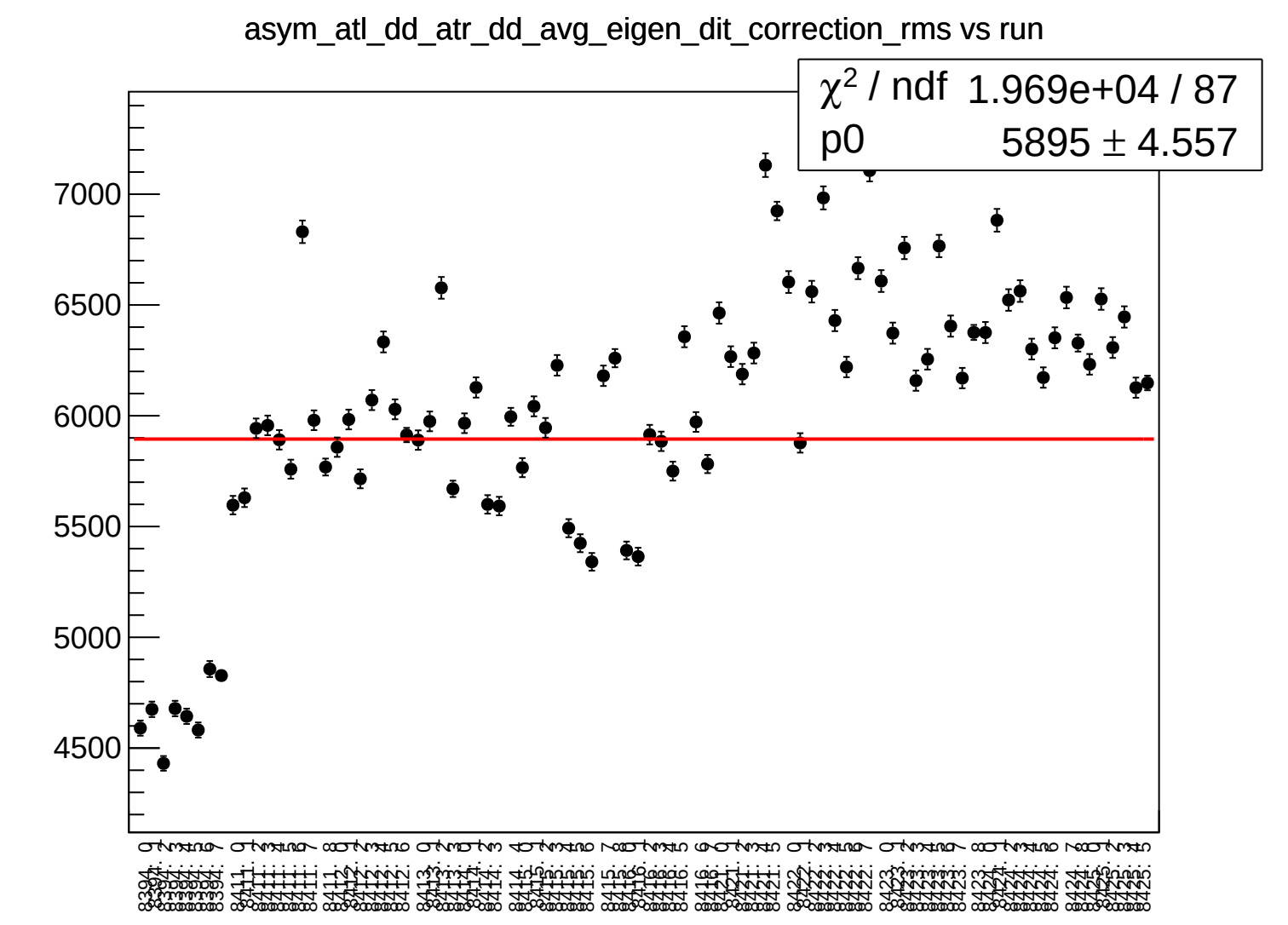

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 89.99 / 87
p0 1527 ± 1391
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 537.4
Std Dev 0
3
2
1
0
−1
−2

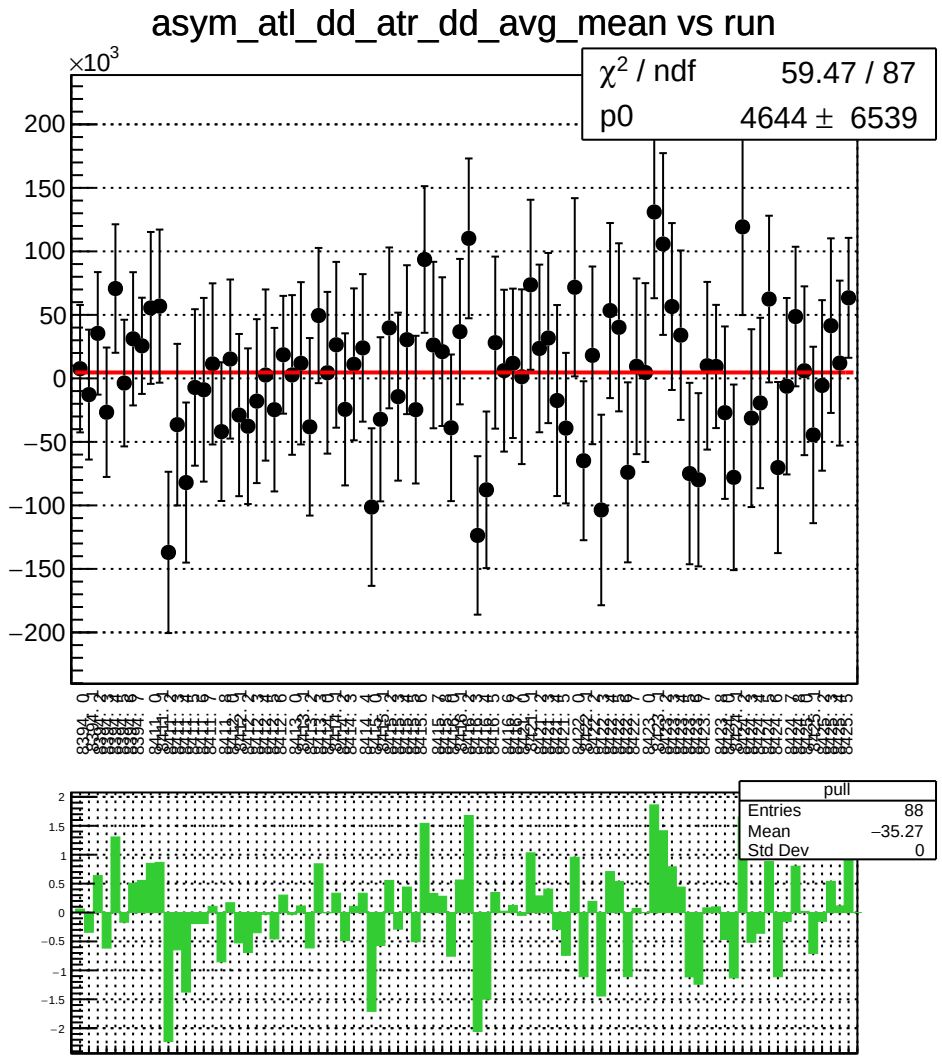

pull1D
Entries 88
Mean −0.004252
Std Dev 1.011
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

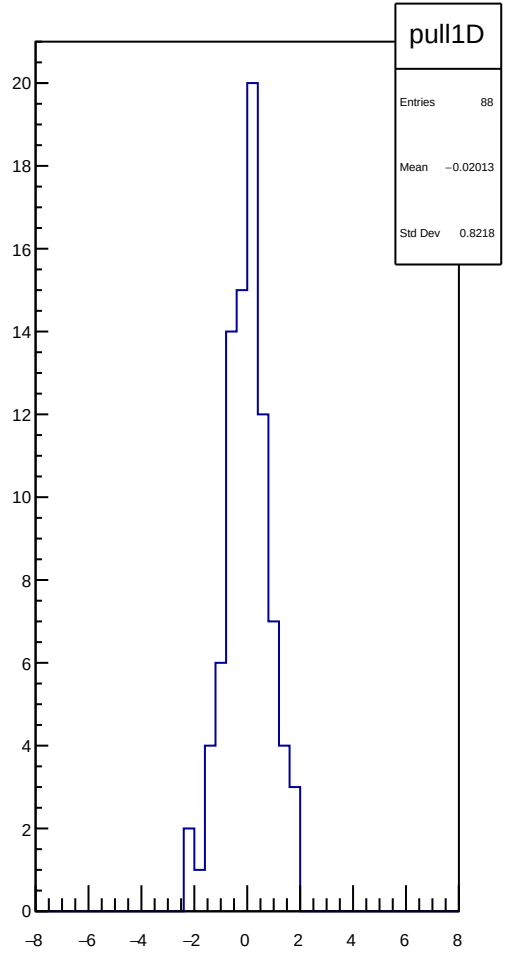

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 115.9 / 87
p0 1279 ± 0.9833
1320
1310
1300
1290
1280
1270
1260
1250
1240

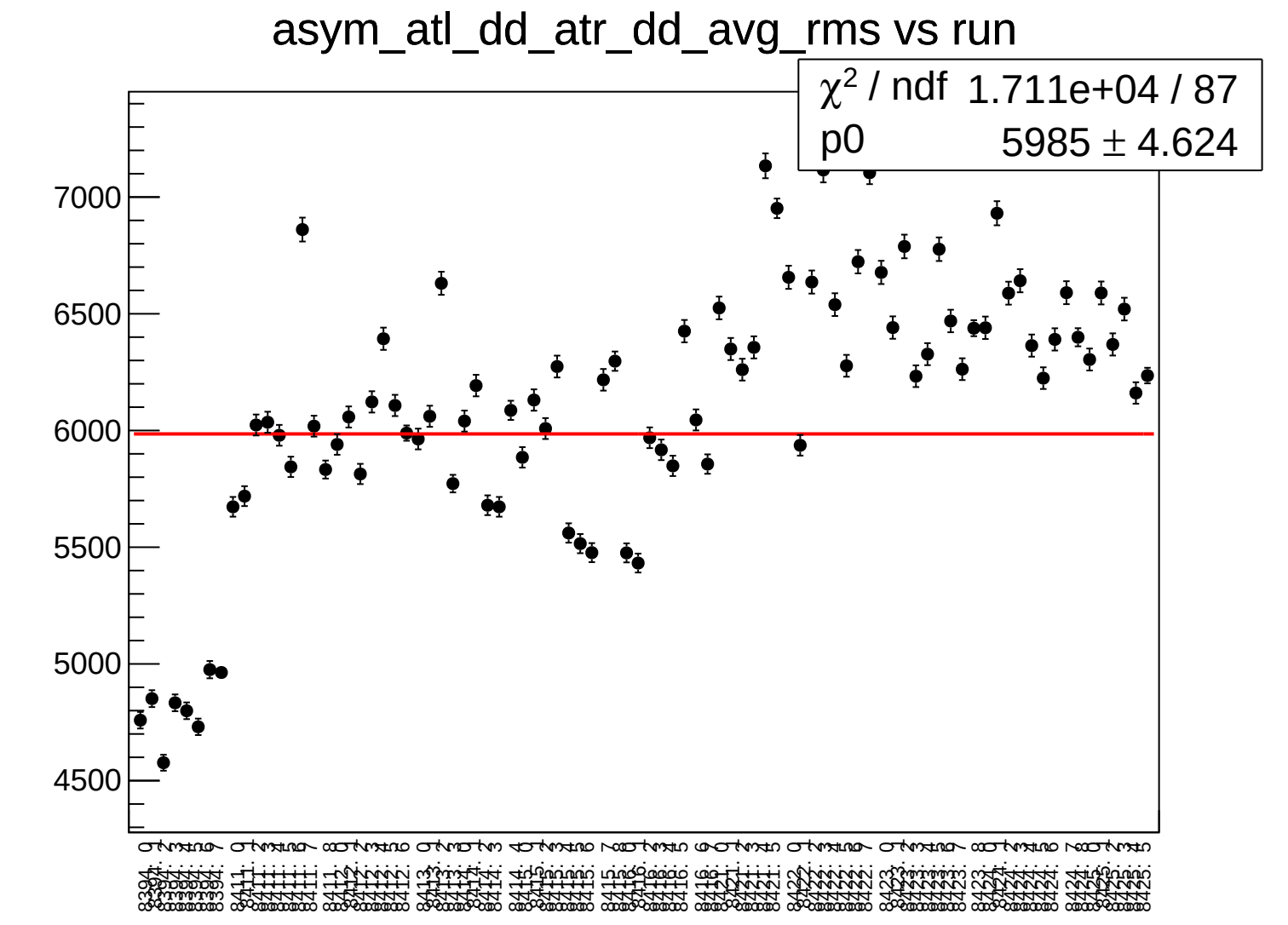

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 65.06 / 87
p0 −2993 ± 6445
pull
Entries 88
Mean −65.82
Std Dev 0

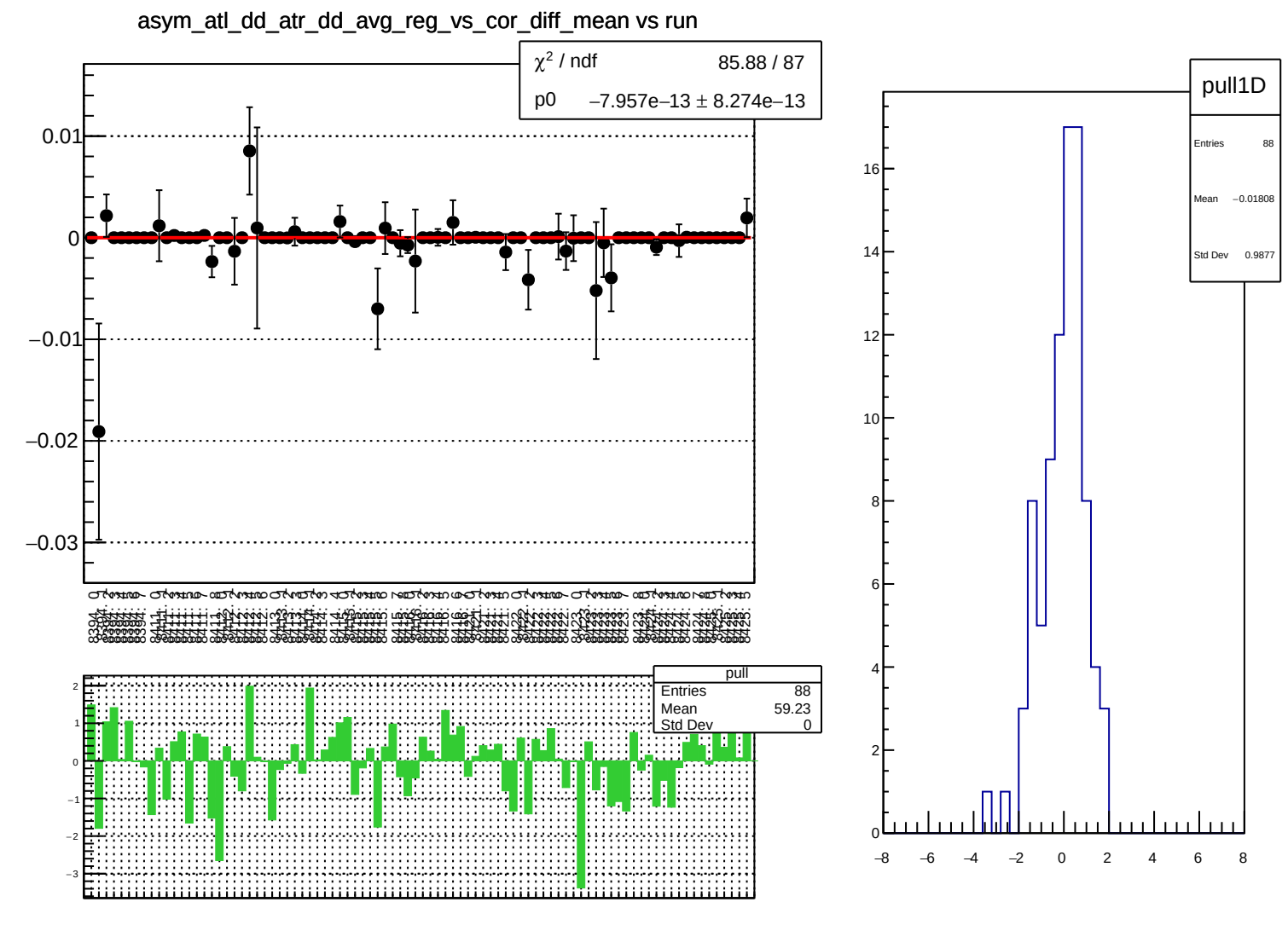

pull1D
Entries 88
Mean 0.01863
Std Dev 0.8596

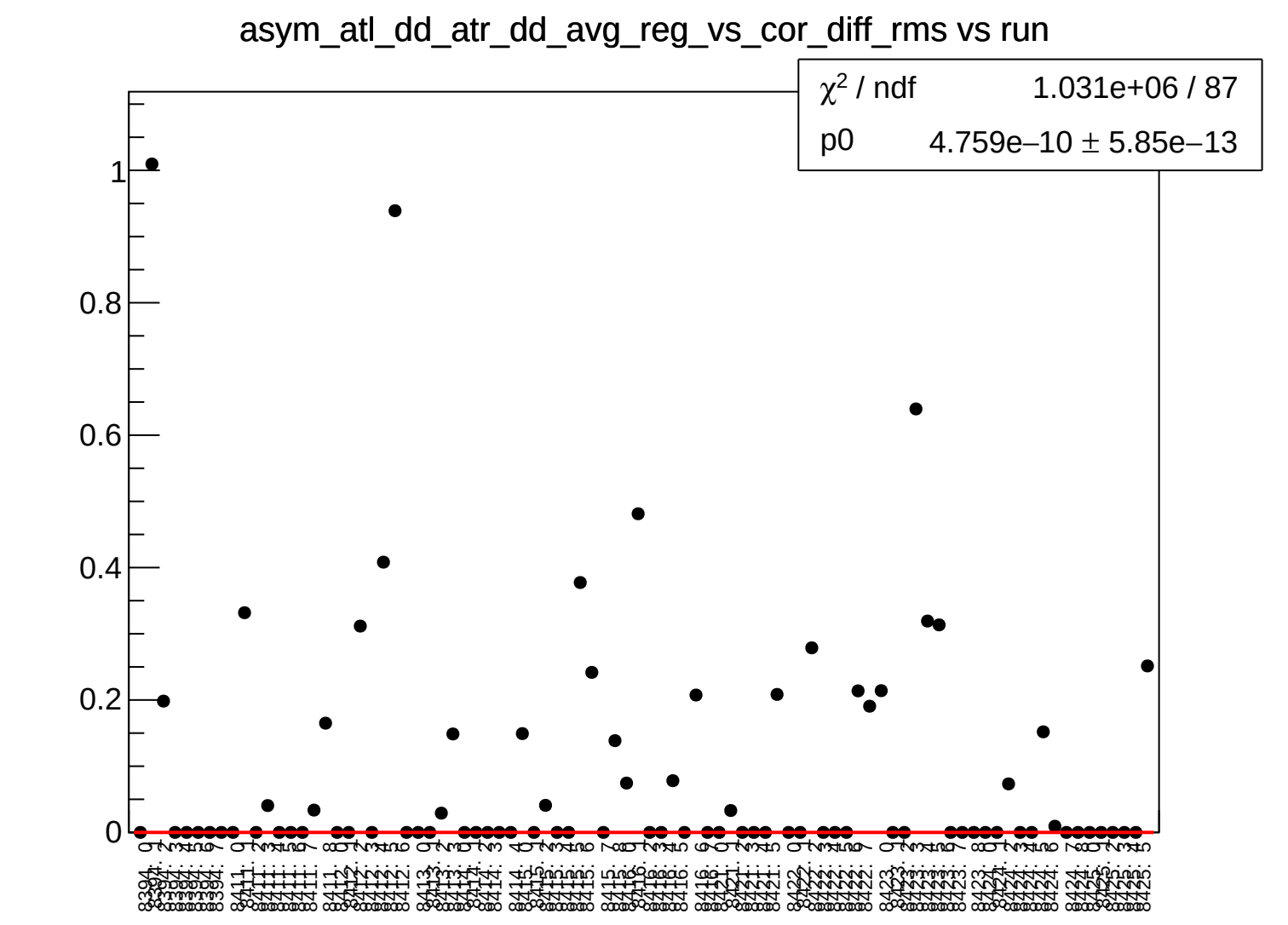

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.969e+04 / 87
p0 5895 ± 4.557
7000
6500
6000
5500
5000
4500

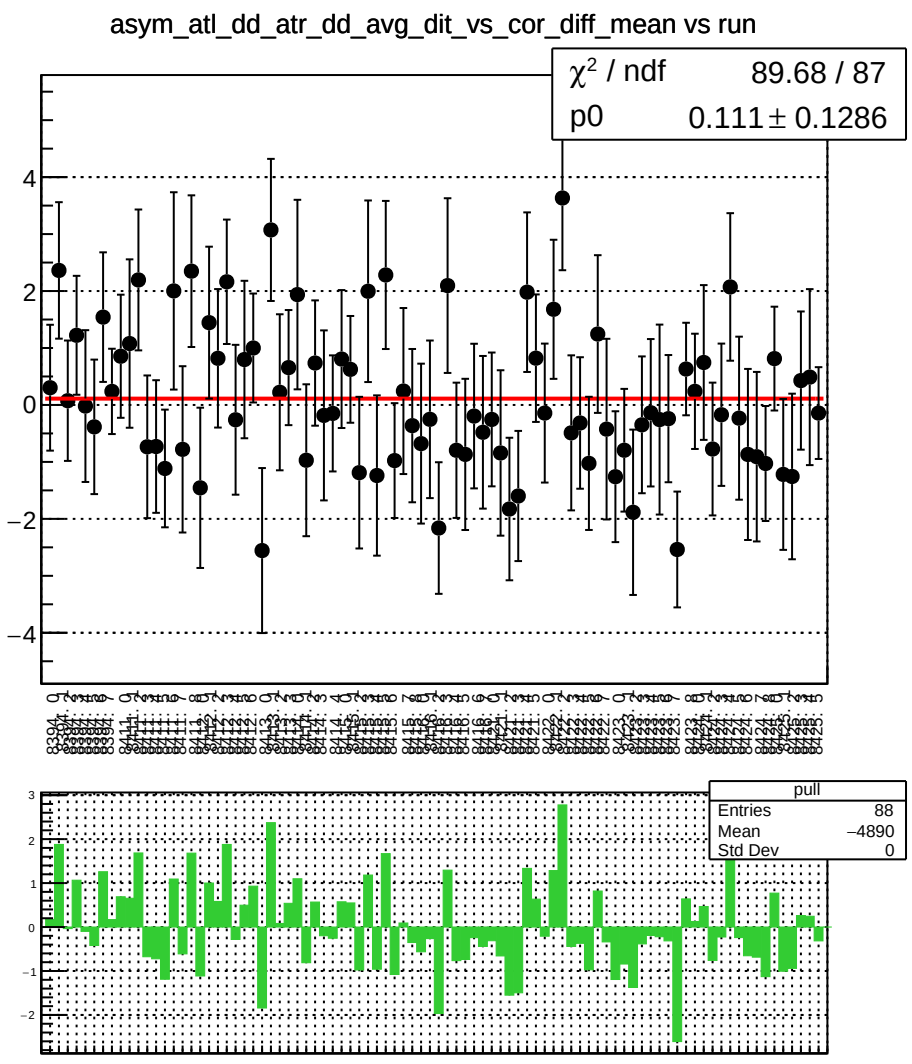

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 59.47 / 87
p0 4644 ± 6539
pull
Entries 88
Mean −35.27
Std Dev 0

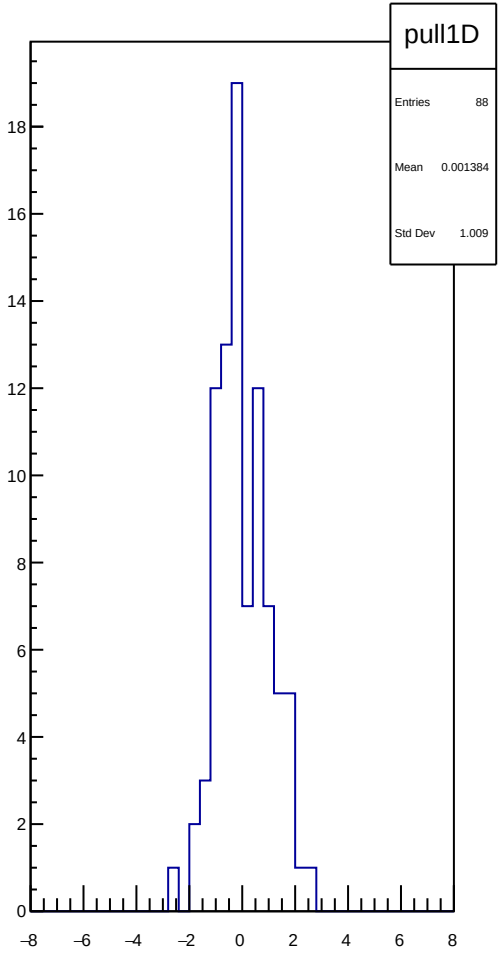

pull1D
Entries 88
Mean −0.02013
Std Dev 0.8218

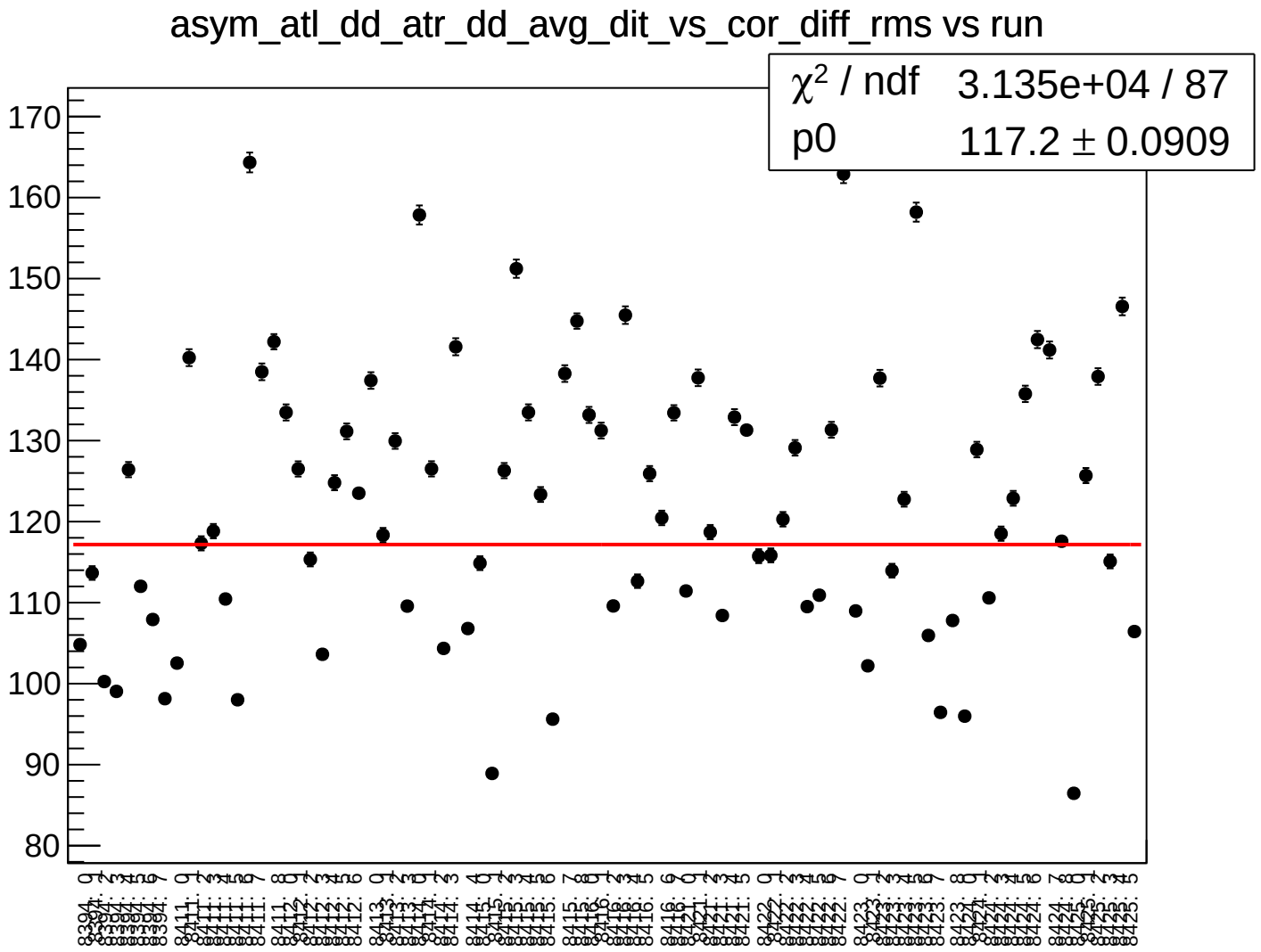

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1.711e+04 / 87
p0 5985 ± 4.624
7000
6500
6000
5500
5000
4500

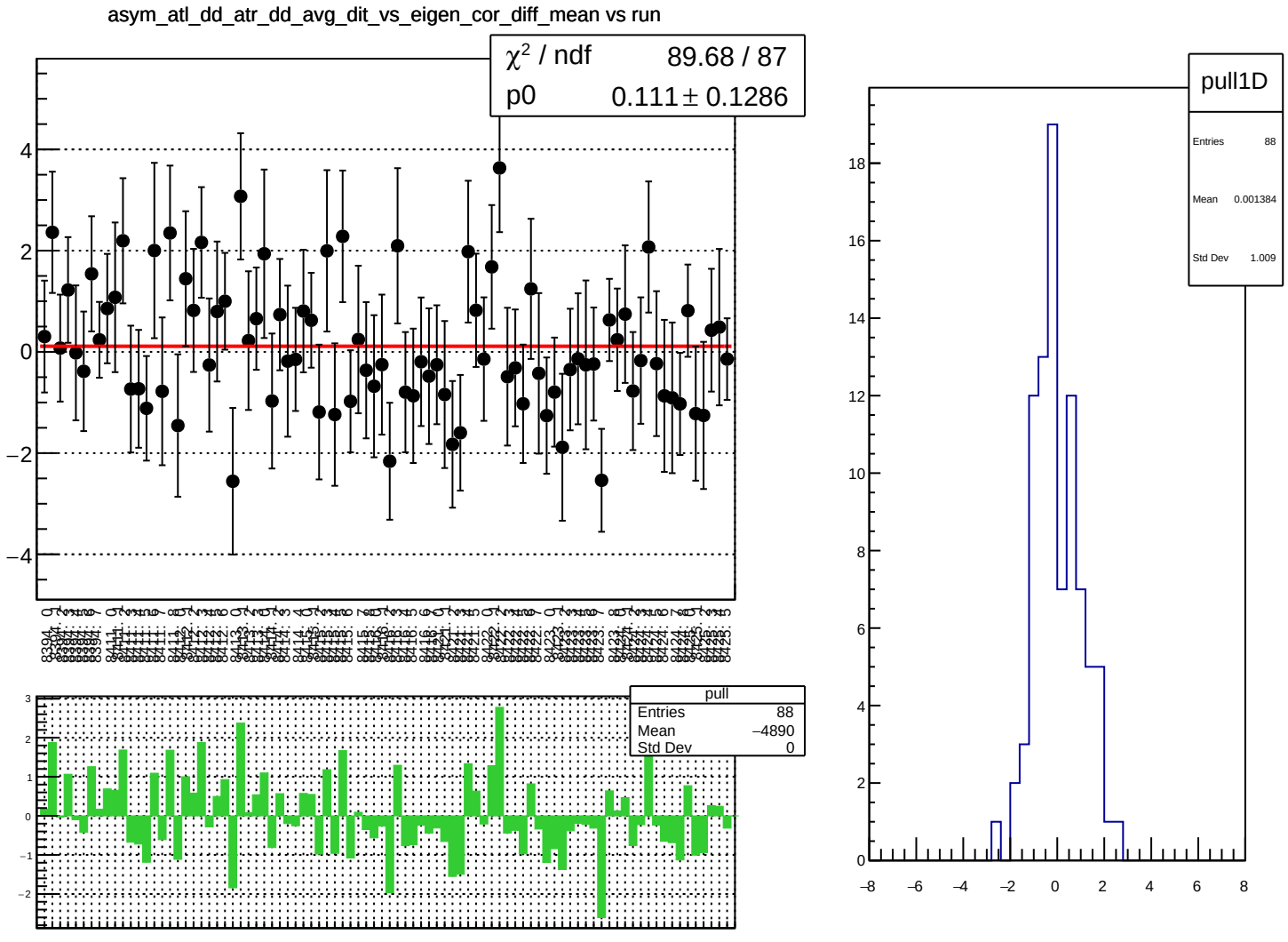

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 85.88 / 87
p0 −7.957e−13 ± 8.274e−13
0.01
0
−0.01
−0.02
−0.03
pull
Entries 88
Mean 59.23
Std Dev 0
pull1D
Entries 88
Mean −0.01808
Std Dev 0.9877

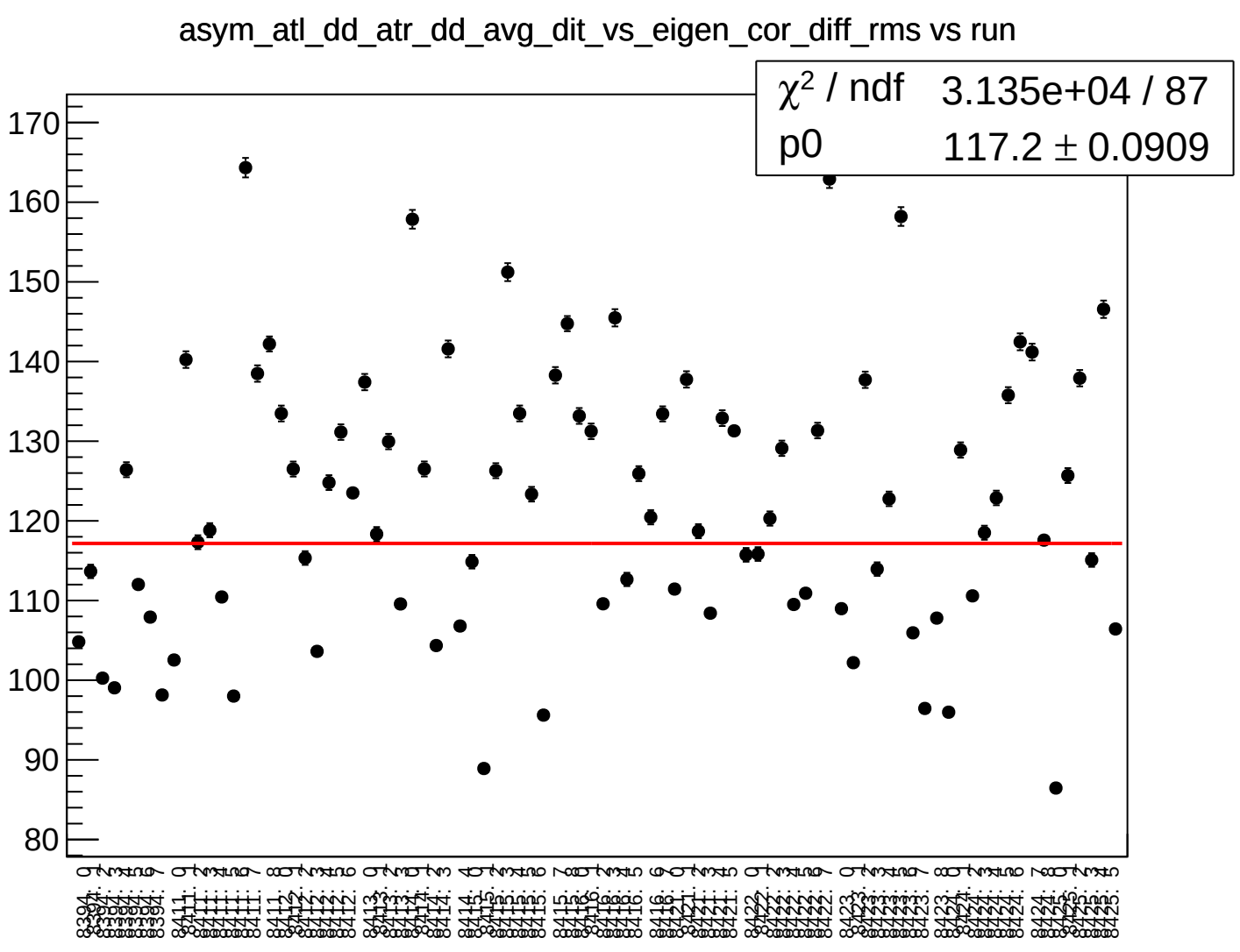

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.031e+06 / 87
p0 4.759e−10 ± 5.85e−13
1
0.8
0.6
0.4
0.2
0

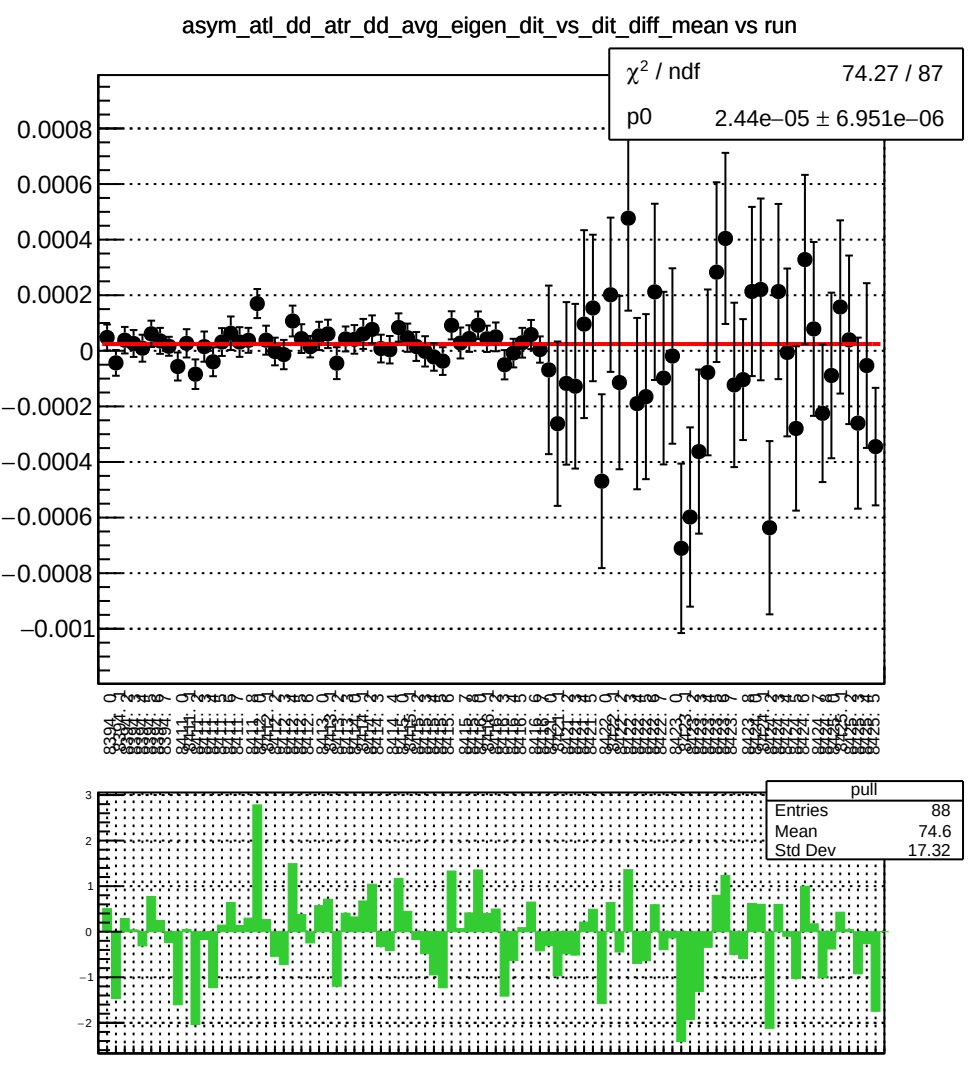

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.68 / 87
p0 0.111 ± 0.1286
pull
Entries 88
Mean −4890
Std Dev 0

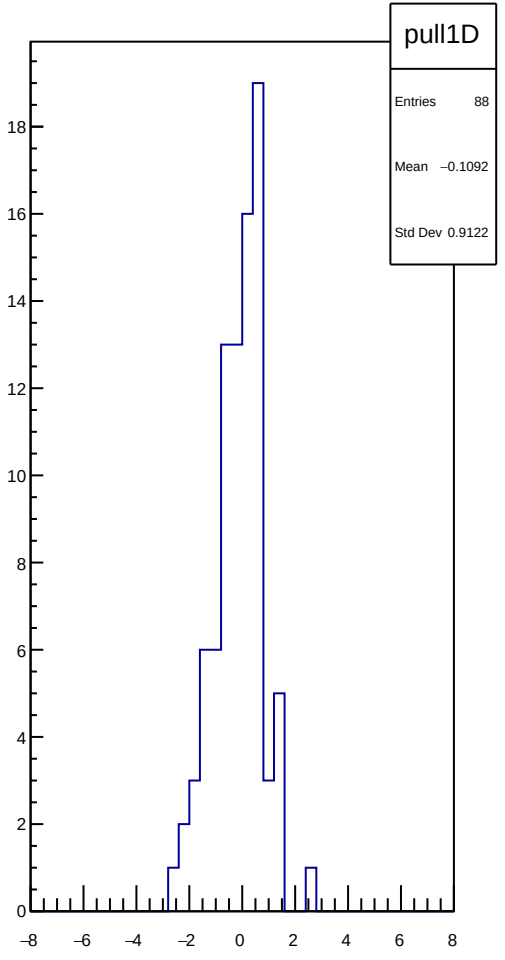

pull1D
Entries 88
Mean 0.001384
Std Dev 1.009

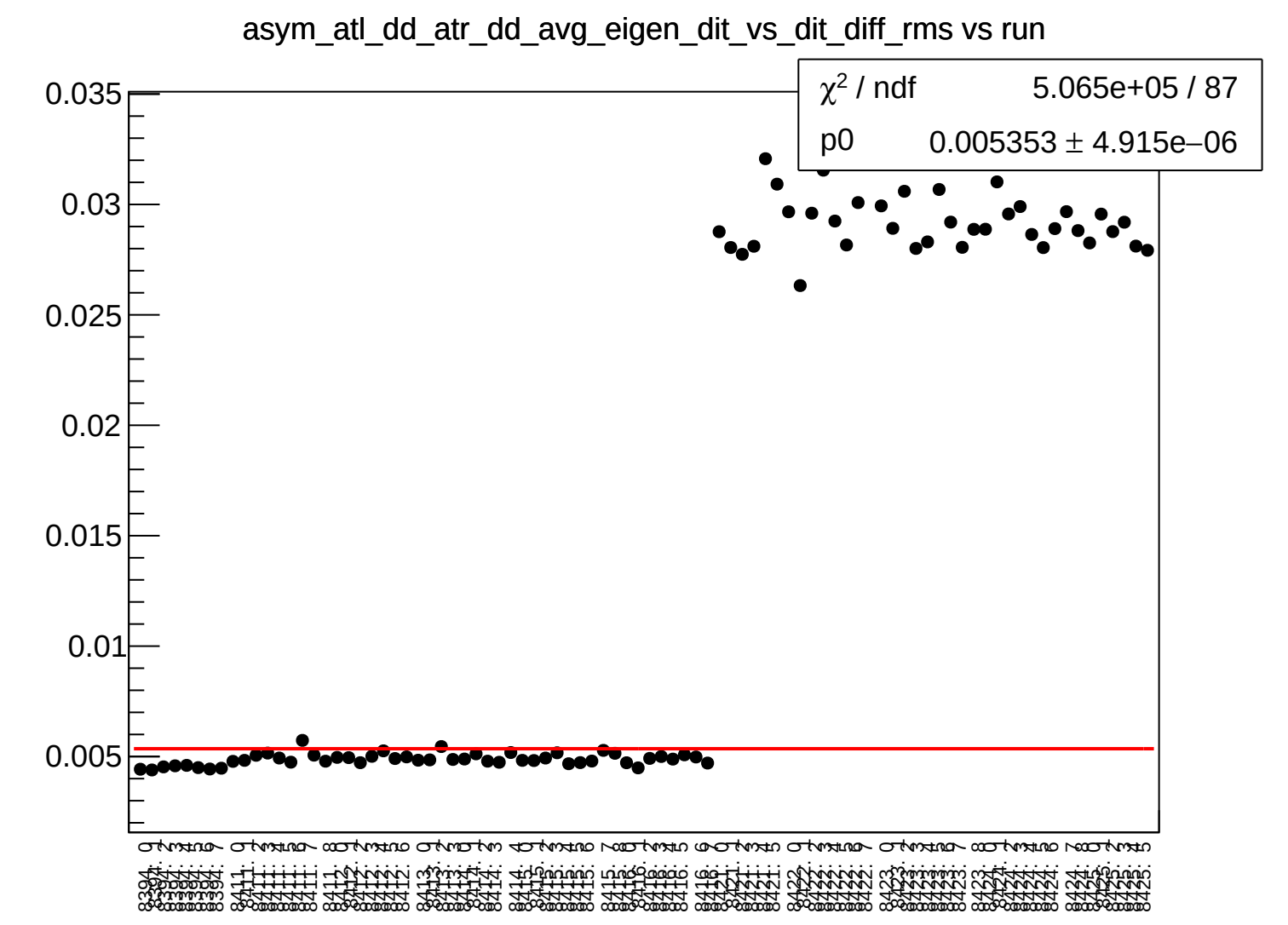

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.135e+04 / 87
p0 117.2 ± 0.0909
170
160
150
140
130
120
110
100
90
80

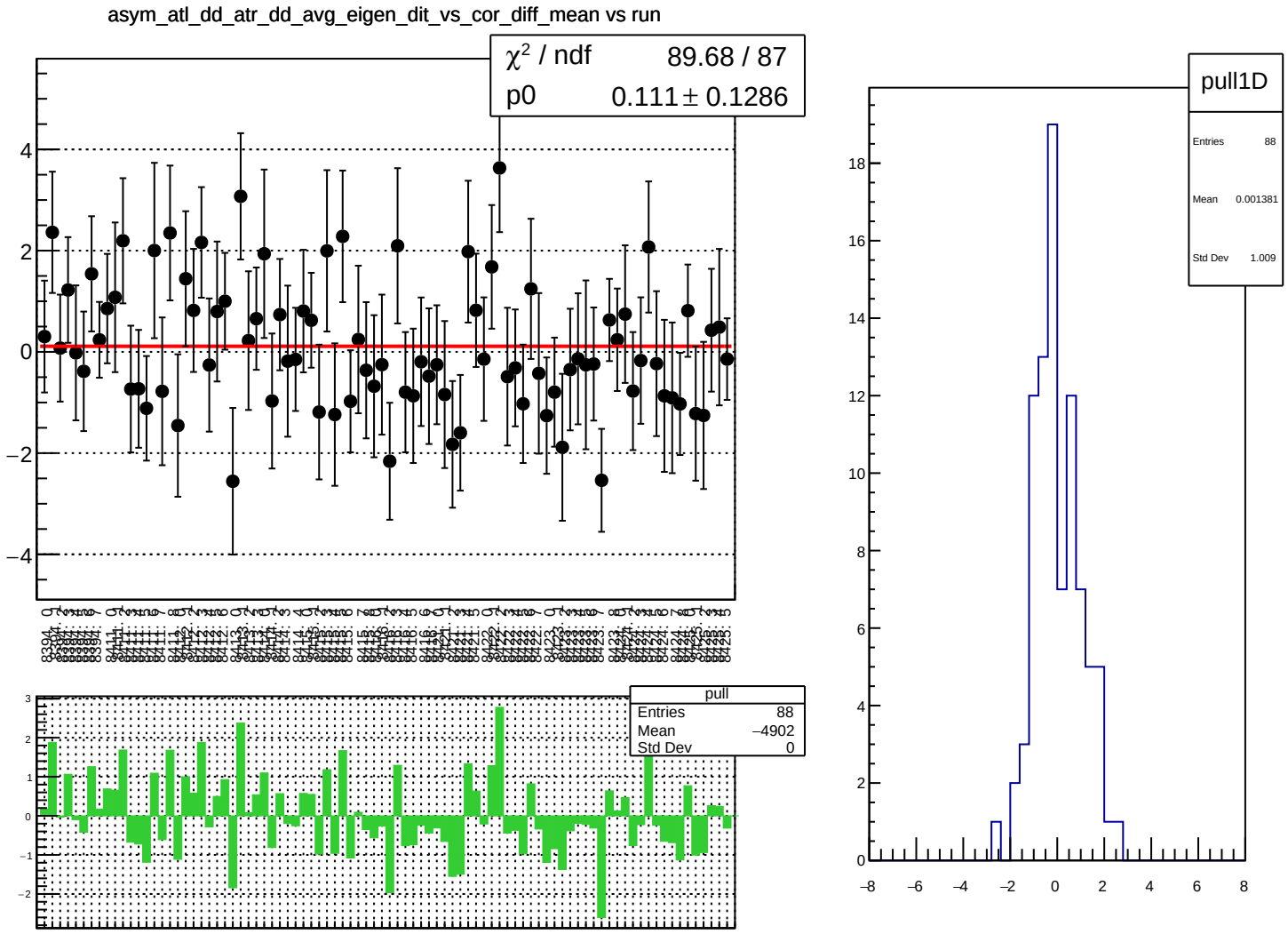

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.68 / 87
p0 0.111 ± 0.1286
pull
Entries 88
Mean −4890
Std Dev 0
pull1D
Entries 88
Mean 0.001384
Std Dev 1.009

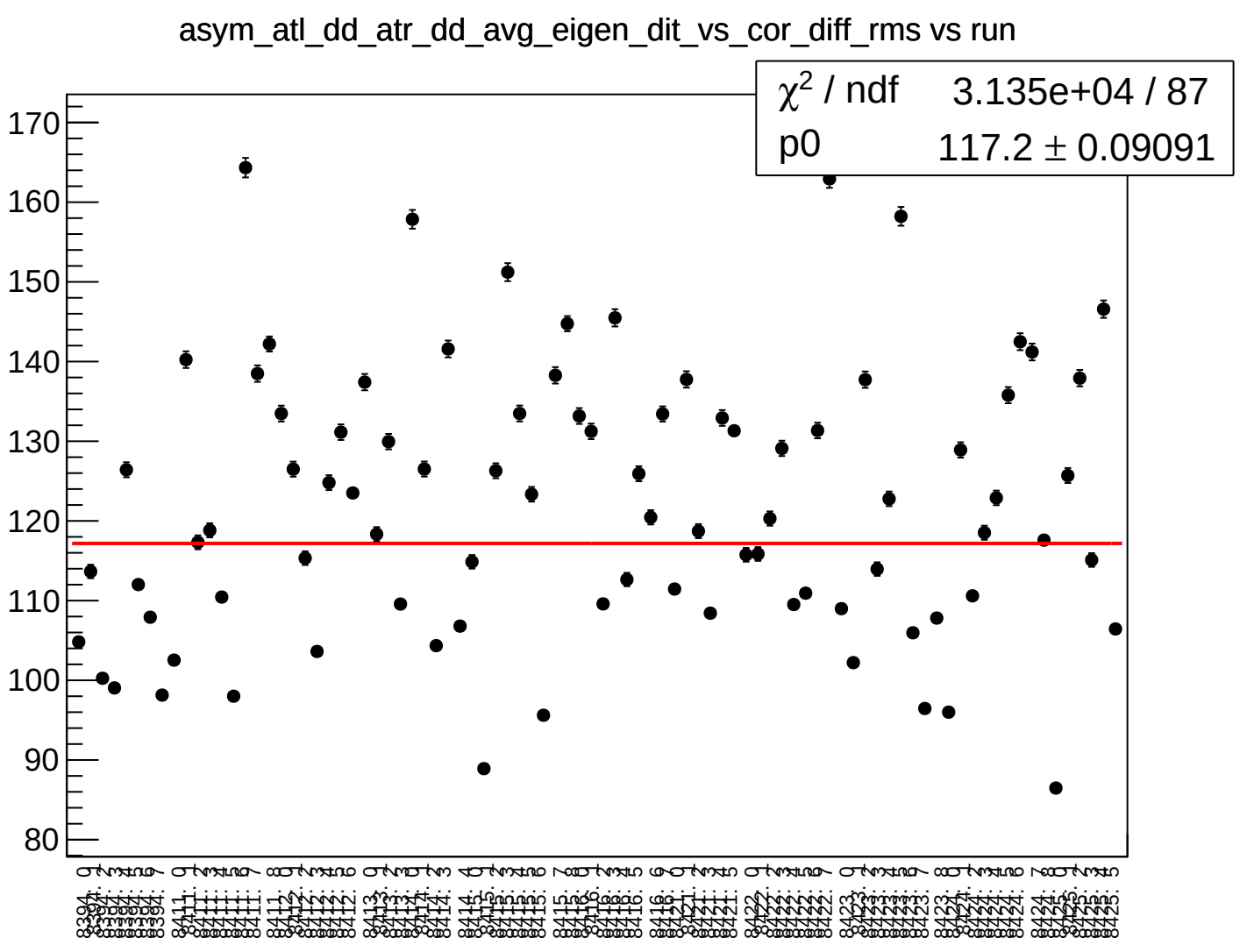

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.135e+04 / 87
p0 117.2 ± 0.0909
170
160
150
140
130
120
110
100
90
80

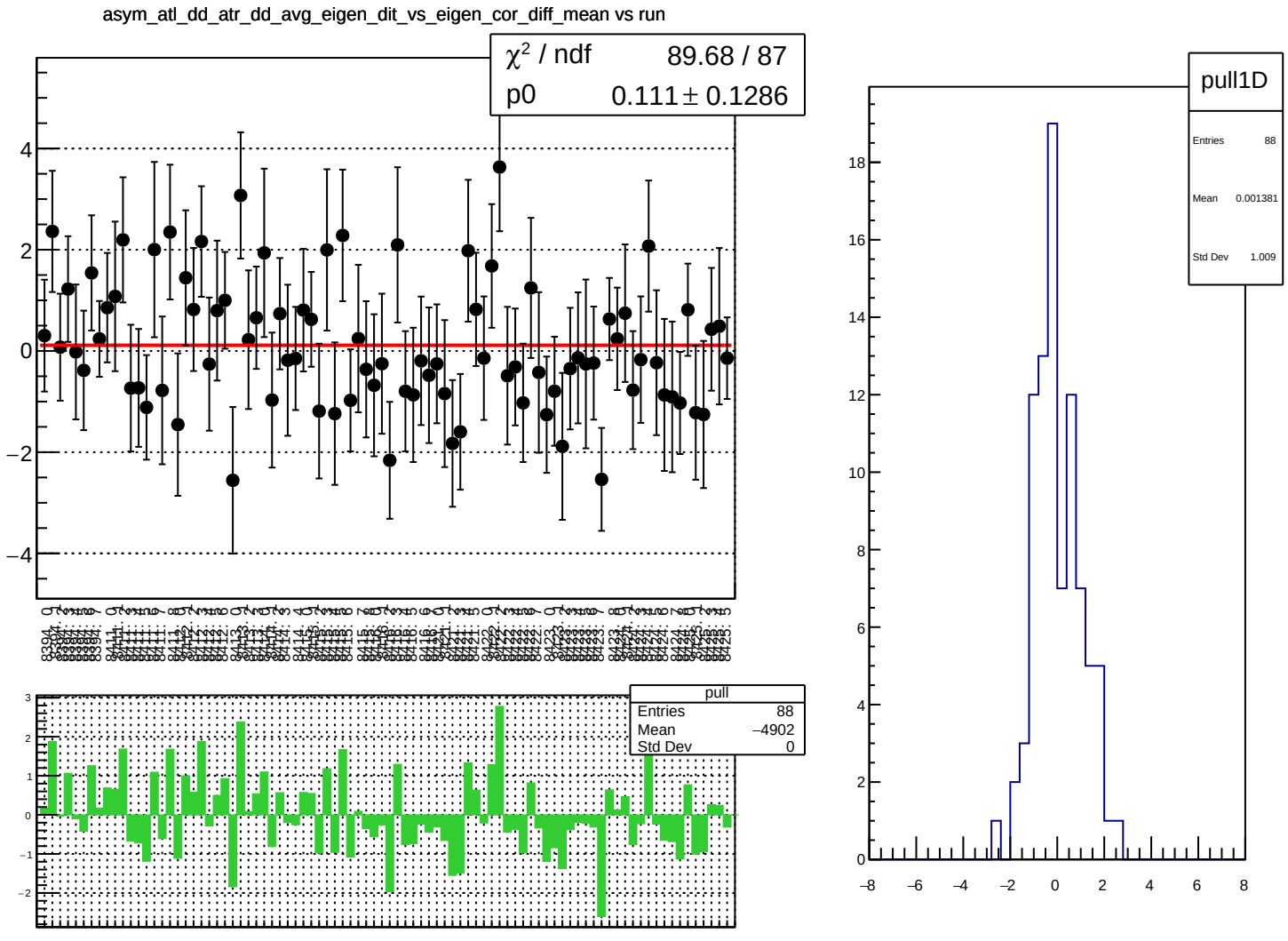

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 74.27 / 87
p0 2.44e−05 ± 6.951e−06
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 88
Mean 74.6
Std Dev 17.32
3
2
1
0
−1
−2

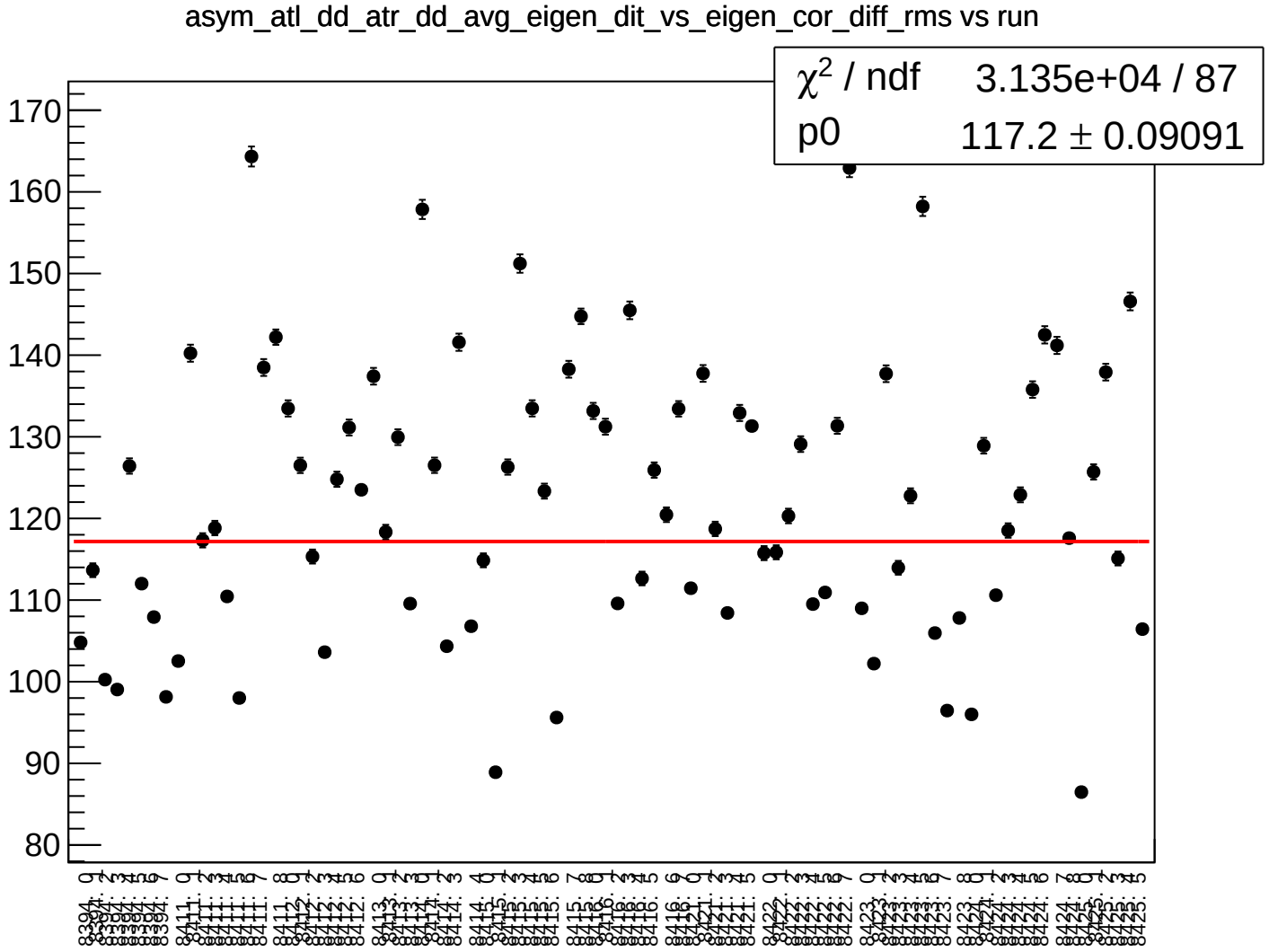

pull1D
Entries 88
Mean −0.1092
Std Dev 0.9122
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

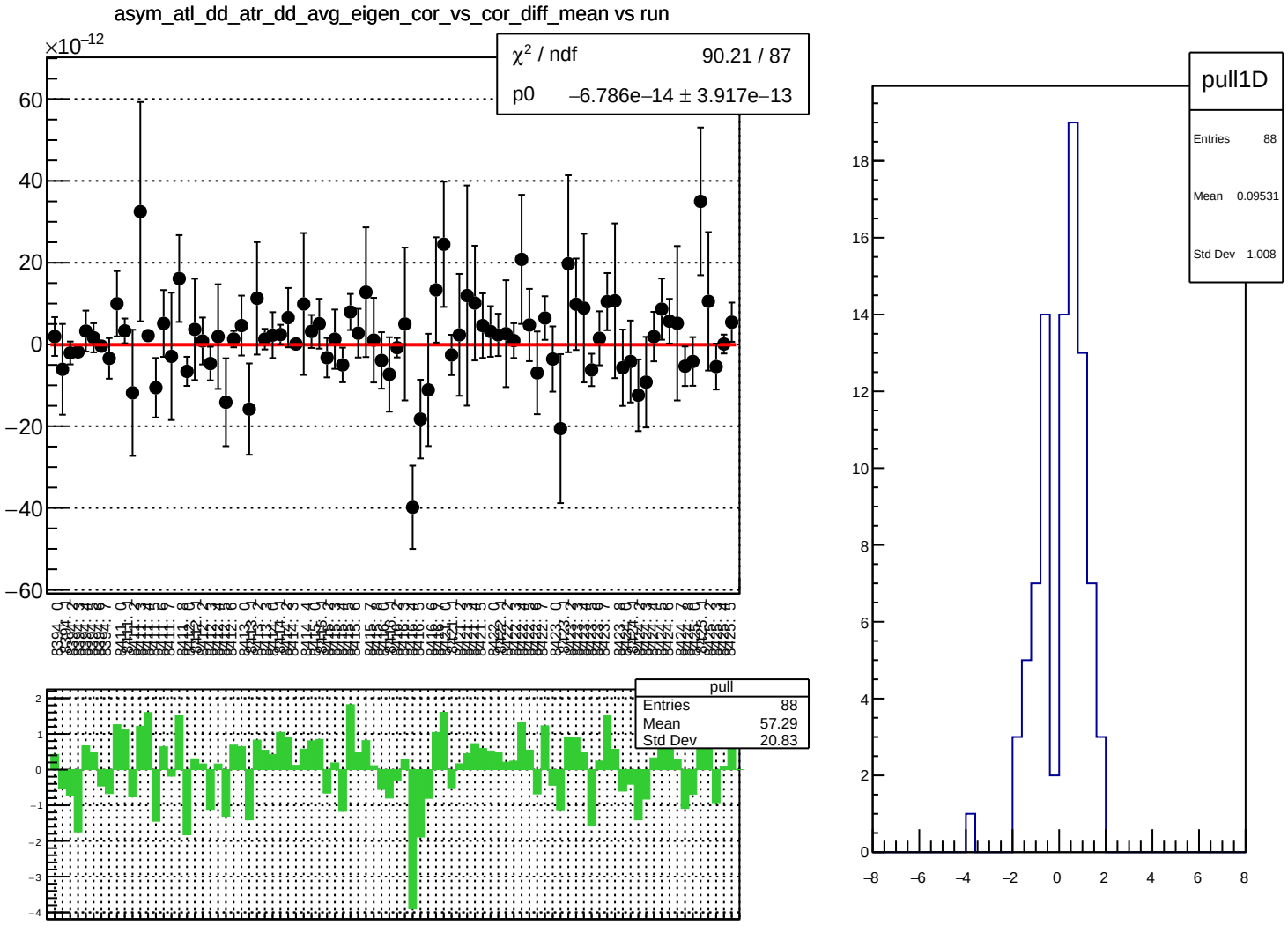

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.065e+05 / 87
p0 0.005353 ± 4.915e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

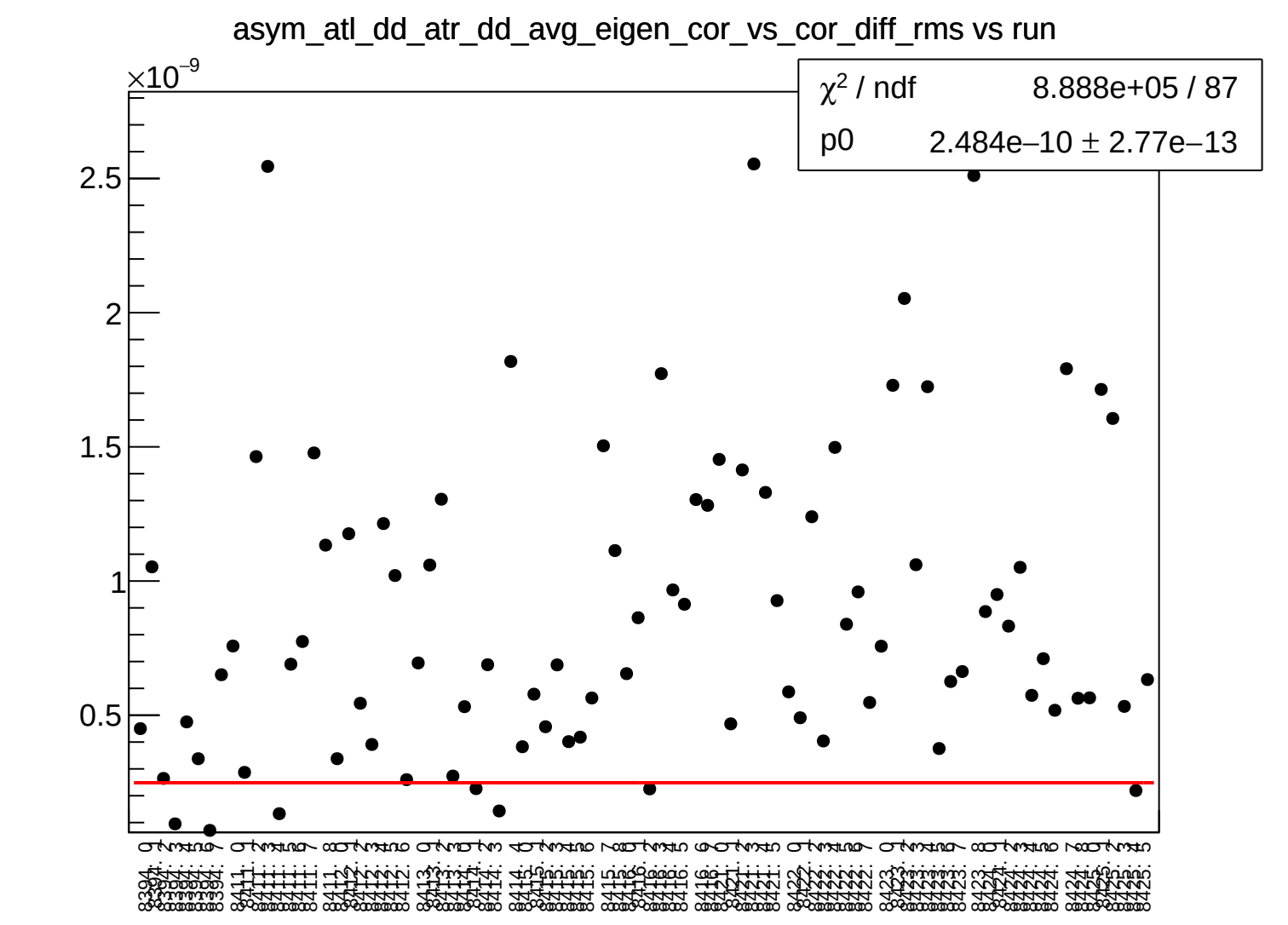

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.68 / 87
p0 0.111 ± 0.1286
pull
Entries 88
Mean −4902
Std Dev 0
pull1D
Entries 88
Mean 0.001381
Std Dev 1.009

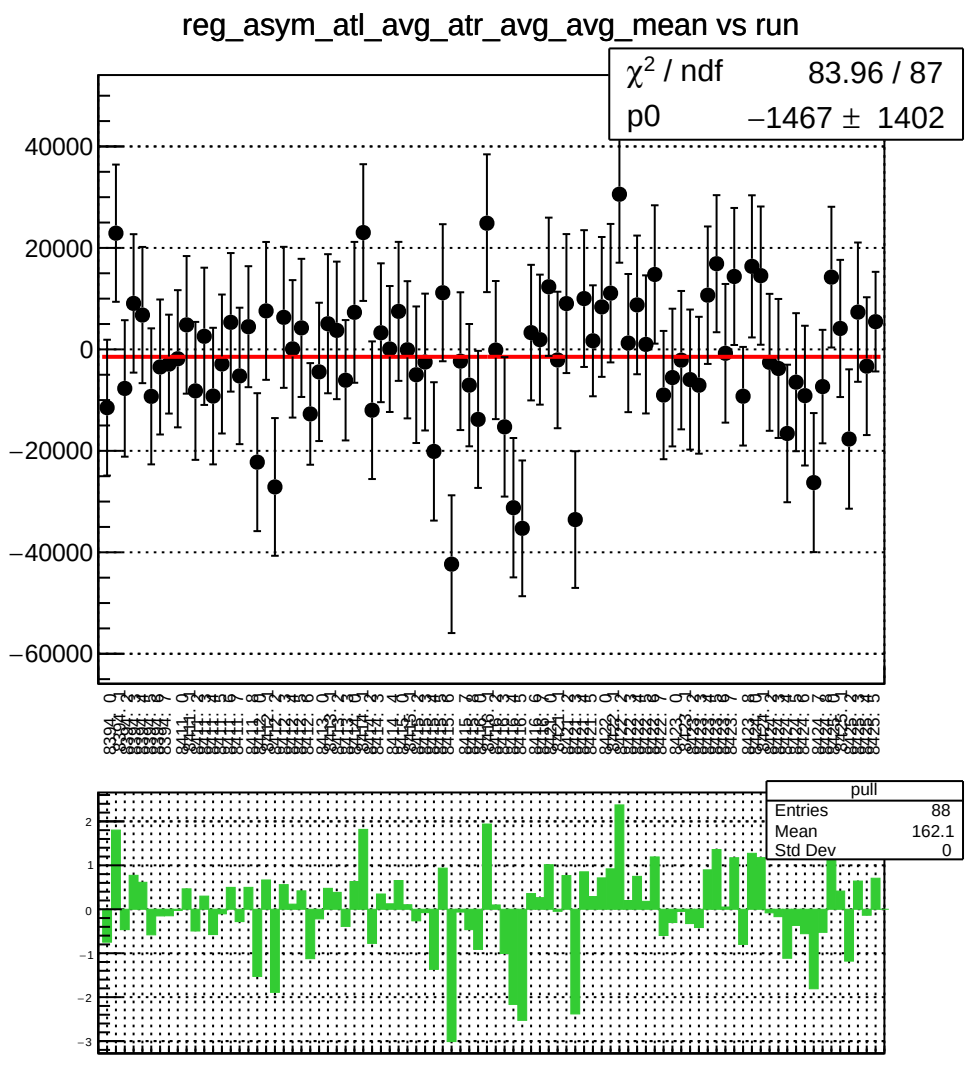

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.135e+04 / 87
p0 117.2 ± 0.09091
170
160
150
140
130
120
110
100
90
80

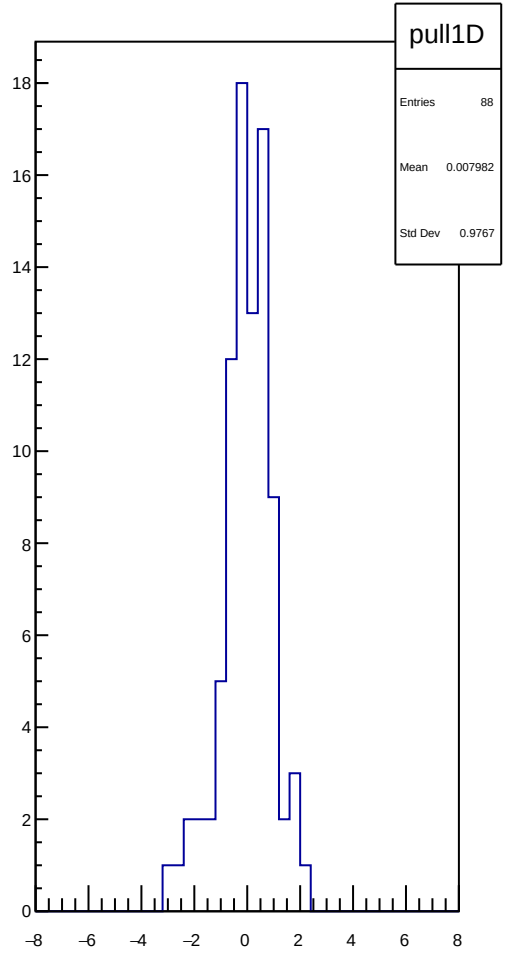

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.68 / 87
p0 0.111 ± 0.1286
pull
Entries 88
Mean −4902
Std Dev 0
pull1D
Entries 88
Mean 0.001381
Std Dev 1.009

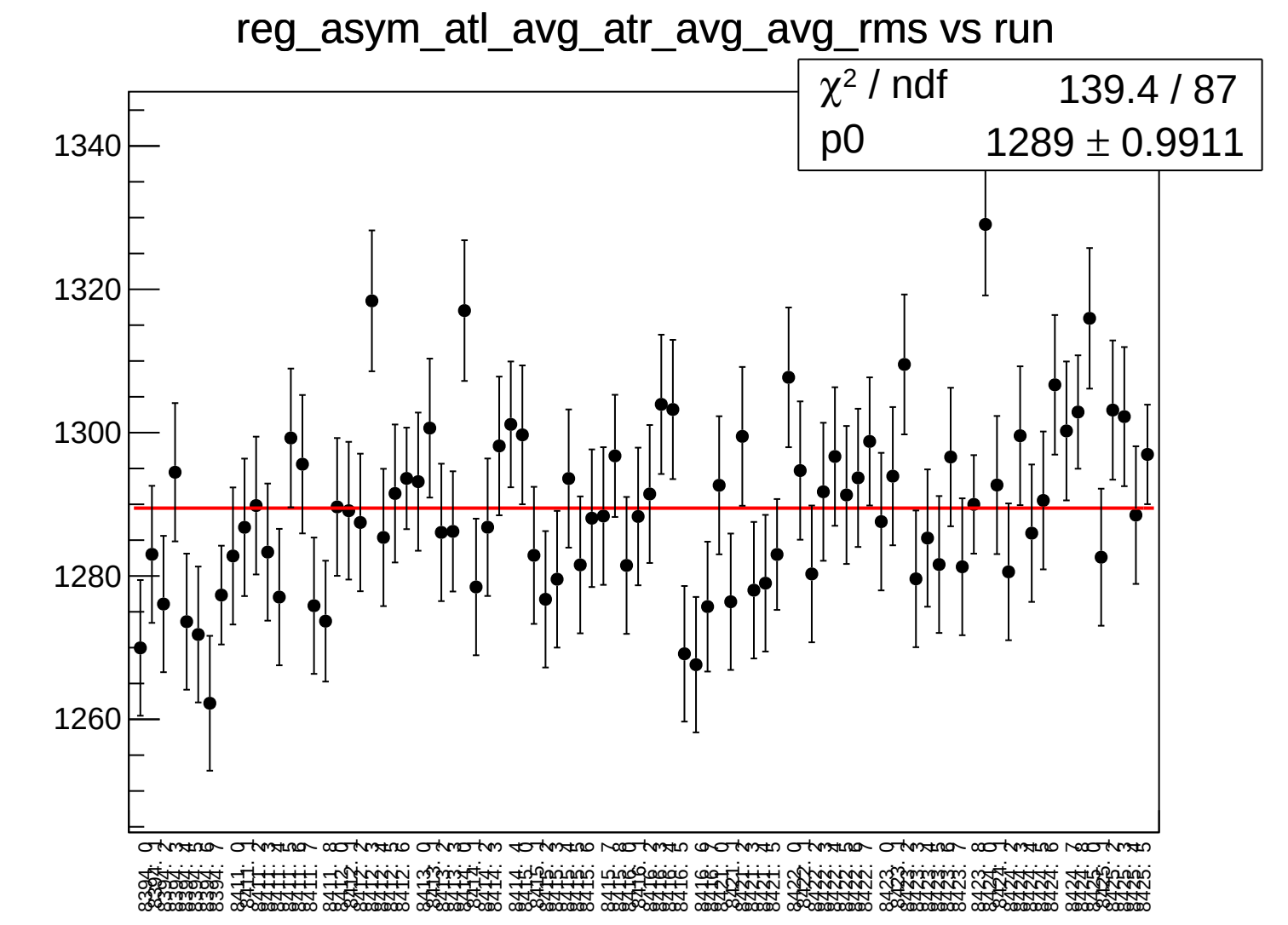

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.135e+04 / 87
p0 117.2 ± 0.09091
170
160
150
140
130
120
110
100
90
80

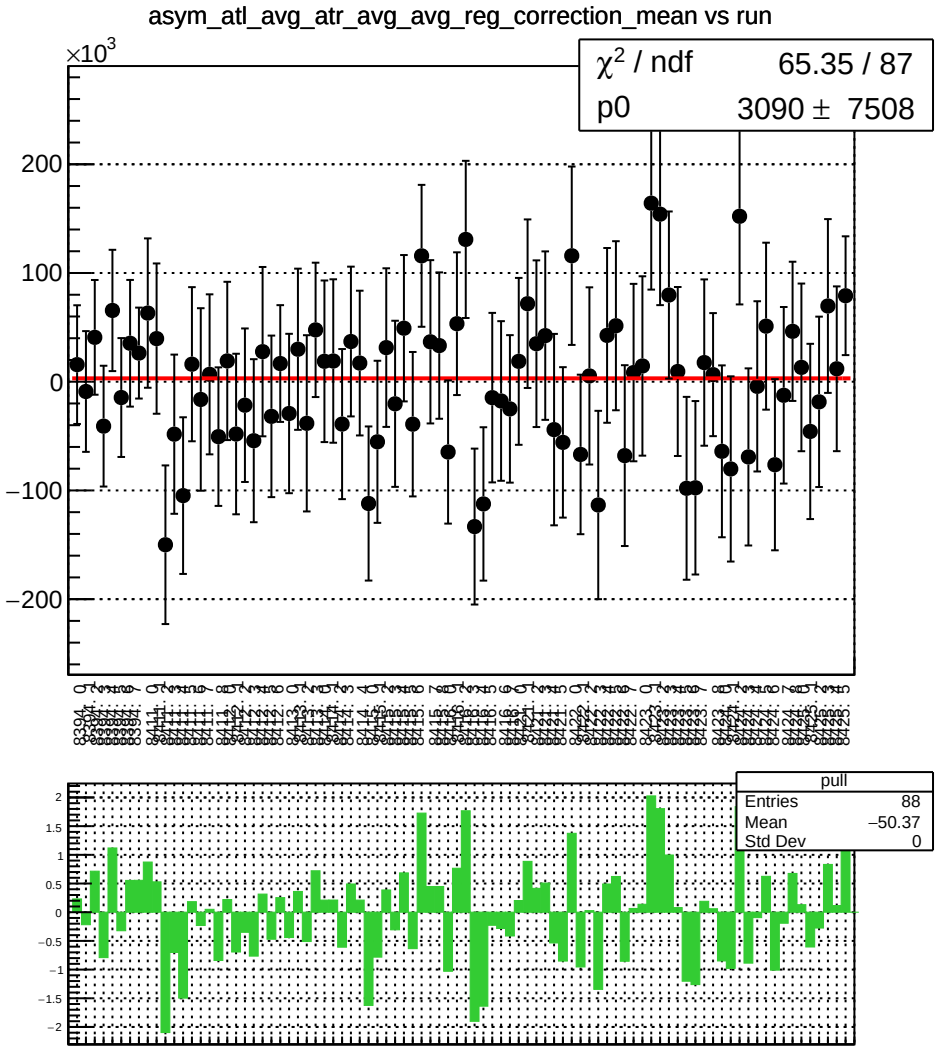

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.21 / 87
p0 −6.786e−14 ± 3.917e−13
pull
Entries 88
Mean 57.29
Std Dev 20.83
pull1D
Entries 88
Mean 0.09531
Std Dev 1.008

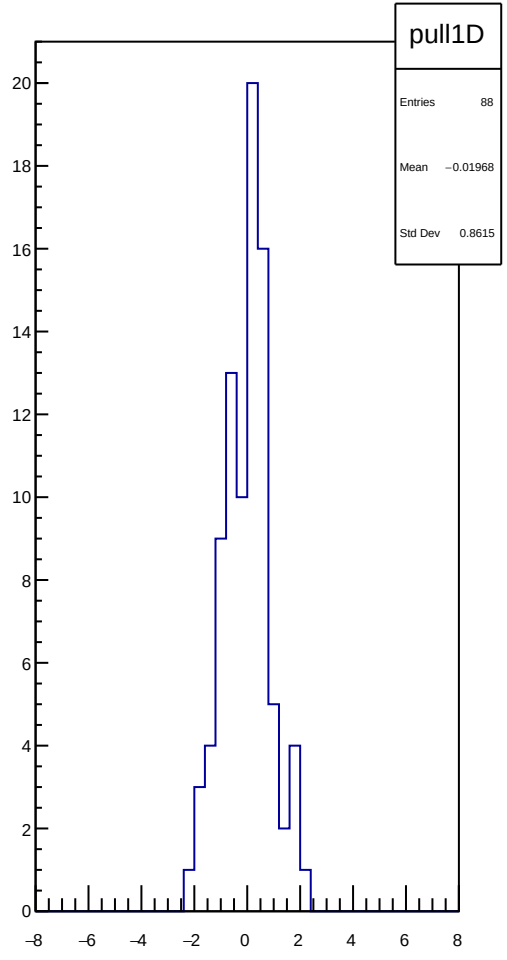

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.888e+05 / 87
p0 2.484e−10 ± 2.77e−13
2.5
2
1.5
1
0.5

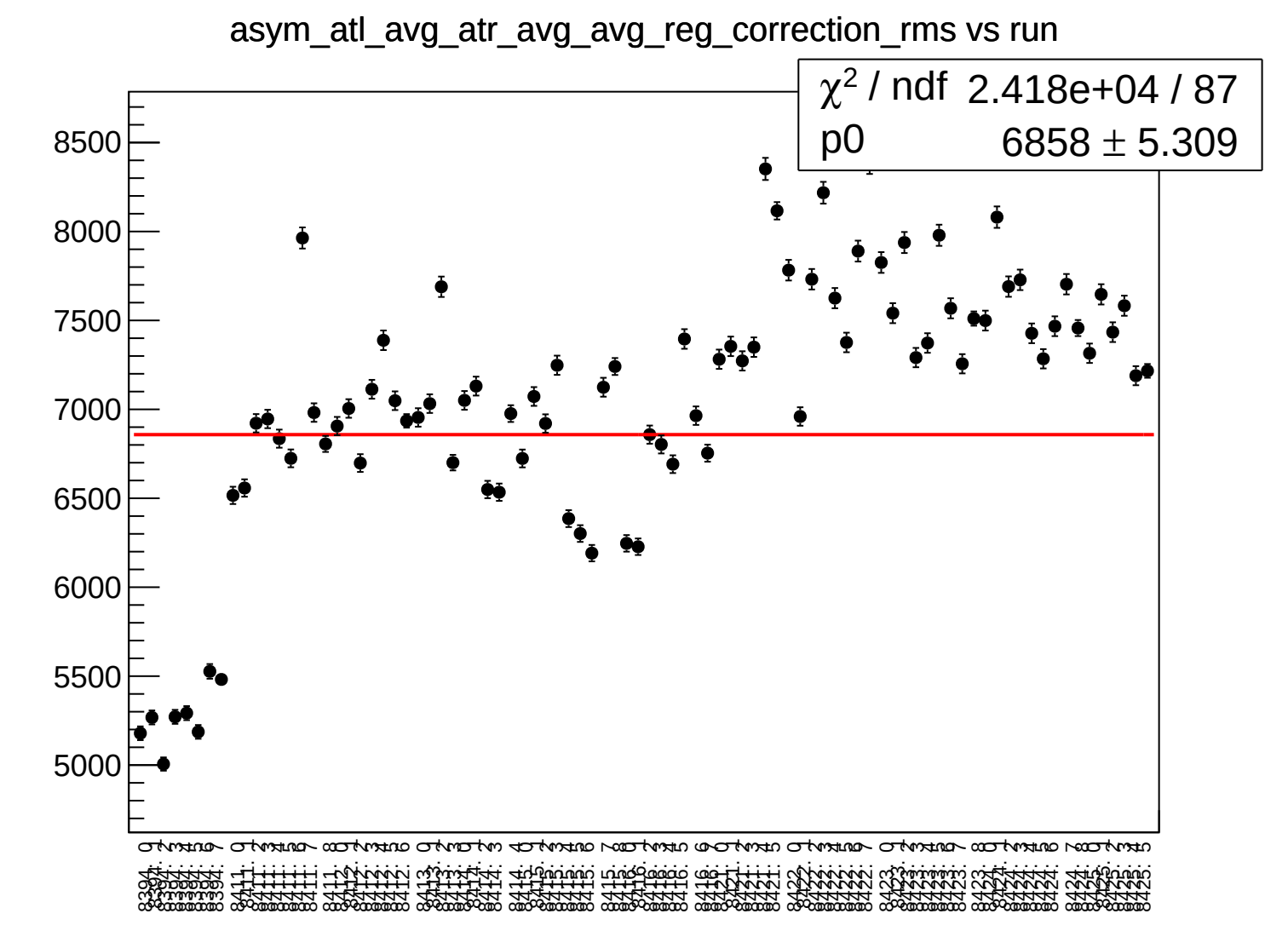

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 83.96 / 87
p0 −1467 ± 1402
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 162.1
Std Dev 0
2
1
0
−1
−2
−3

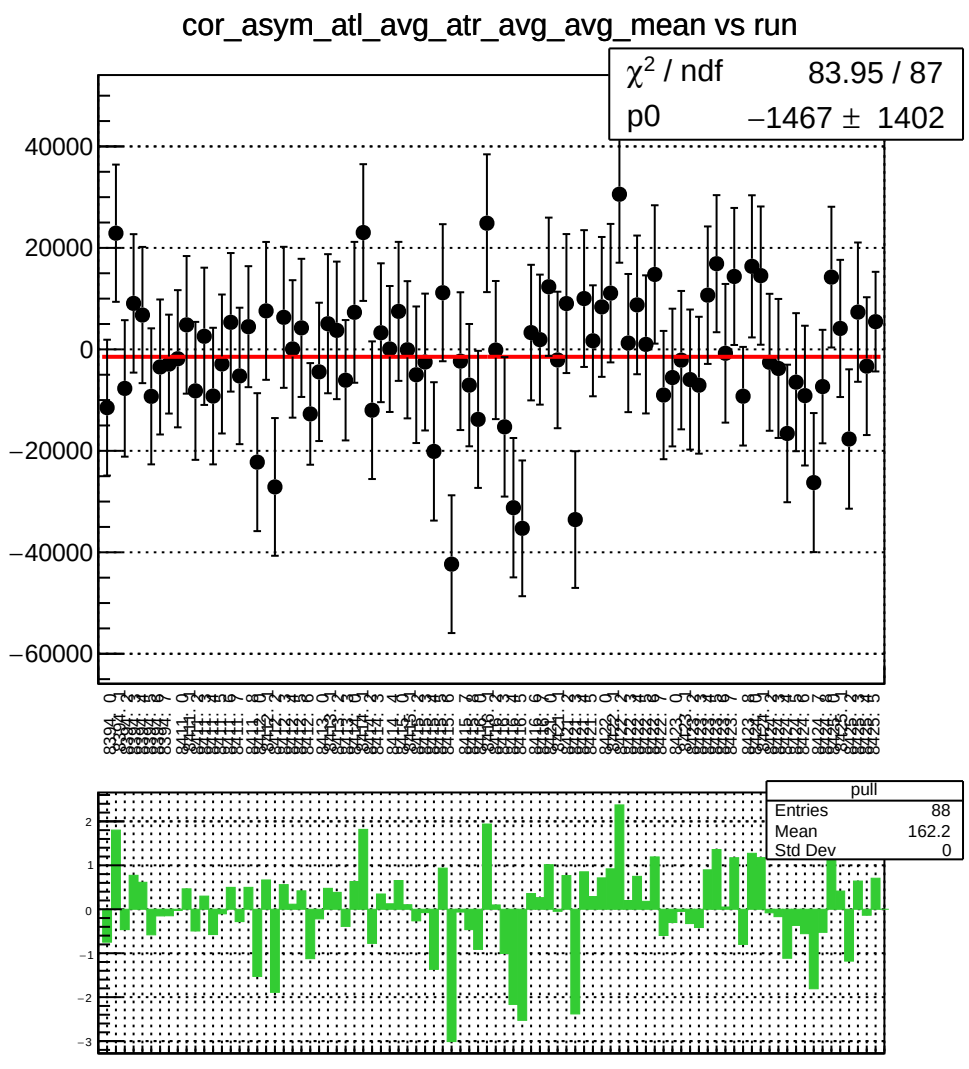

pull1D
Entries 88
Mean 0.007982
Std Dev 0.9767
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

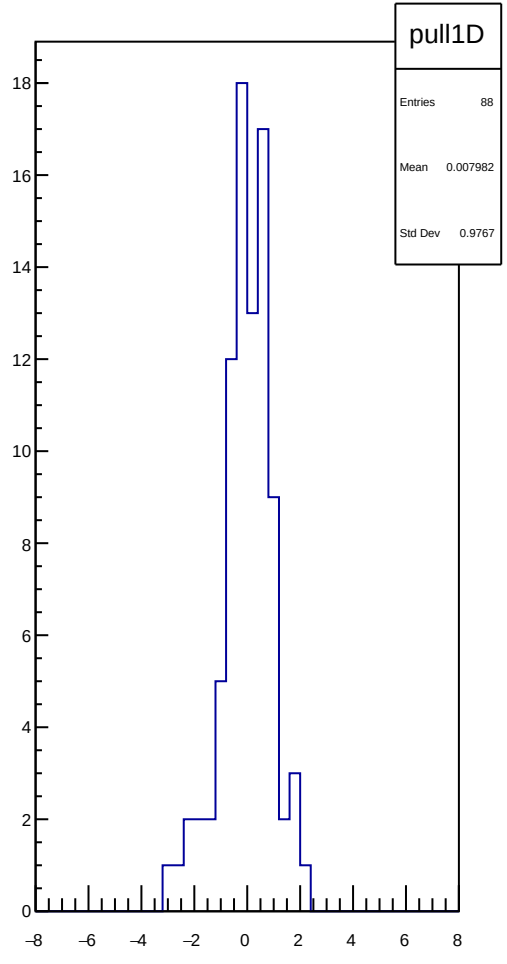

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 139.4 / 87
p0 1289 ± 0.9911
1340
1320
1300
1280
1260

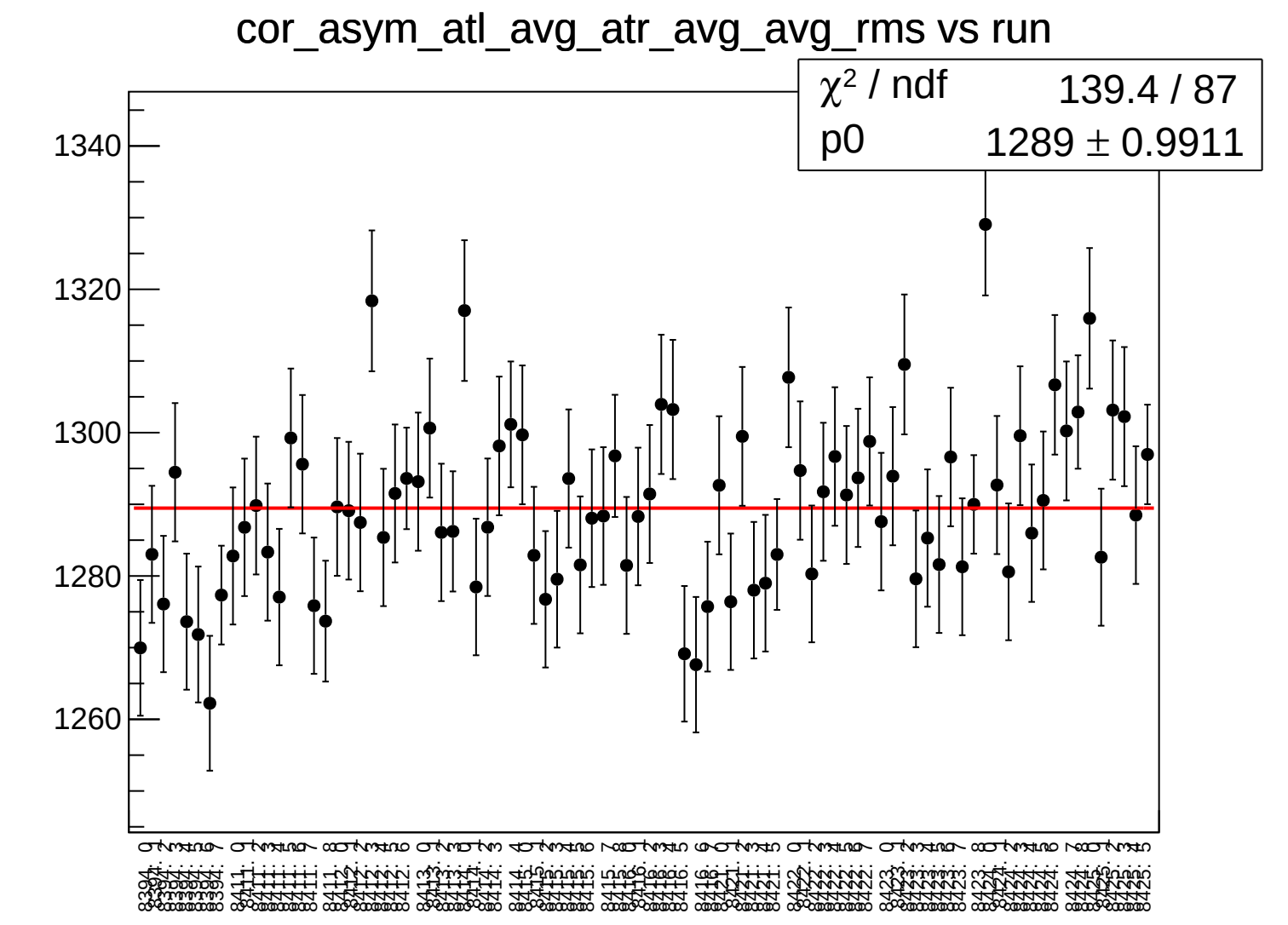

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 65.35 / 87
p0 3090 ± 7508
200
100
0
−100
−200
pull
Entries 88
Mean −50.37
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

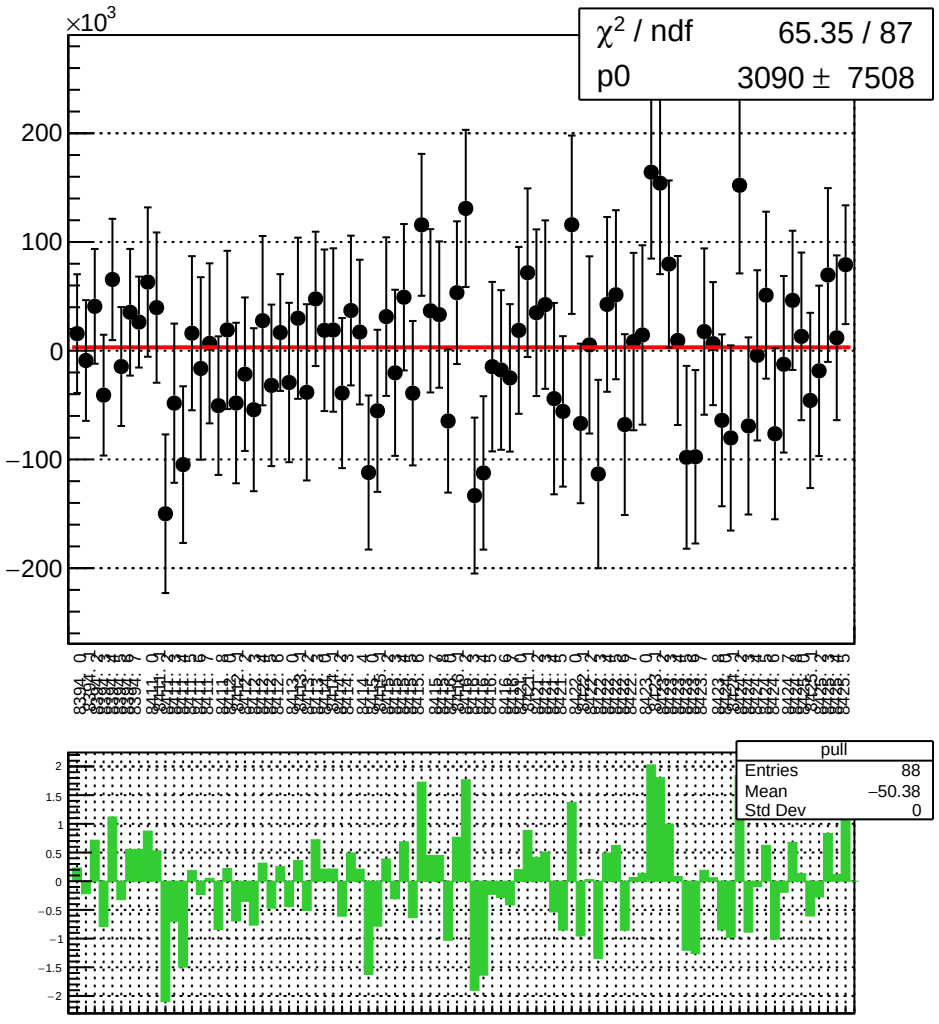

pull1D
Entries 88
Mean −0.01968
Std Dev 0.8615
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

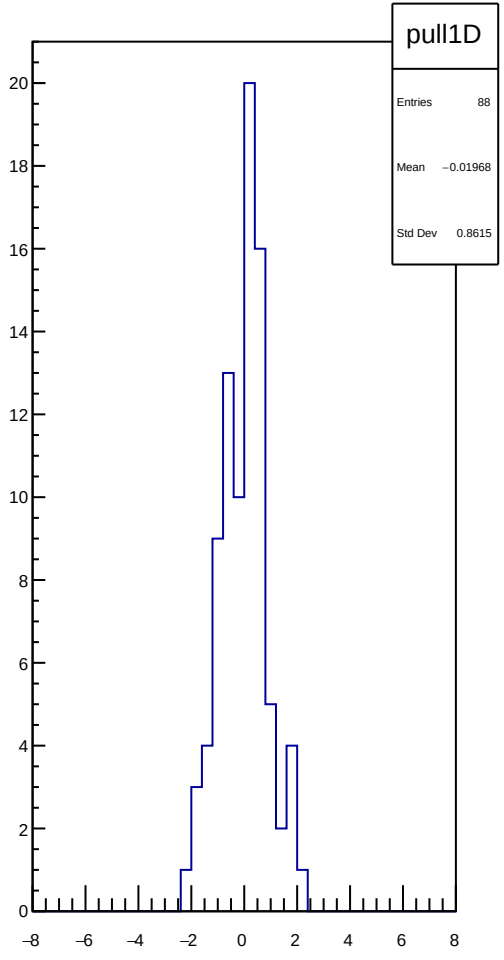

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 2.418e+04 / 87
p0 6858 ± 5.309
8500
8000
7500
7000
6500
6000
5500
5000

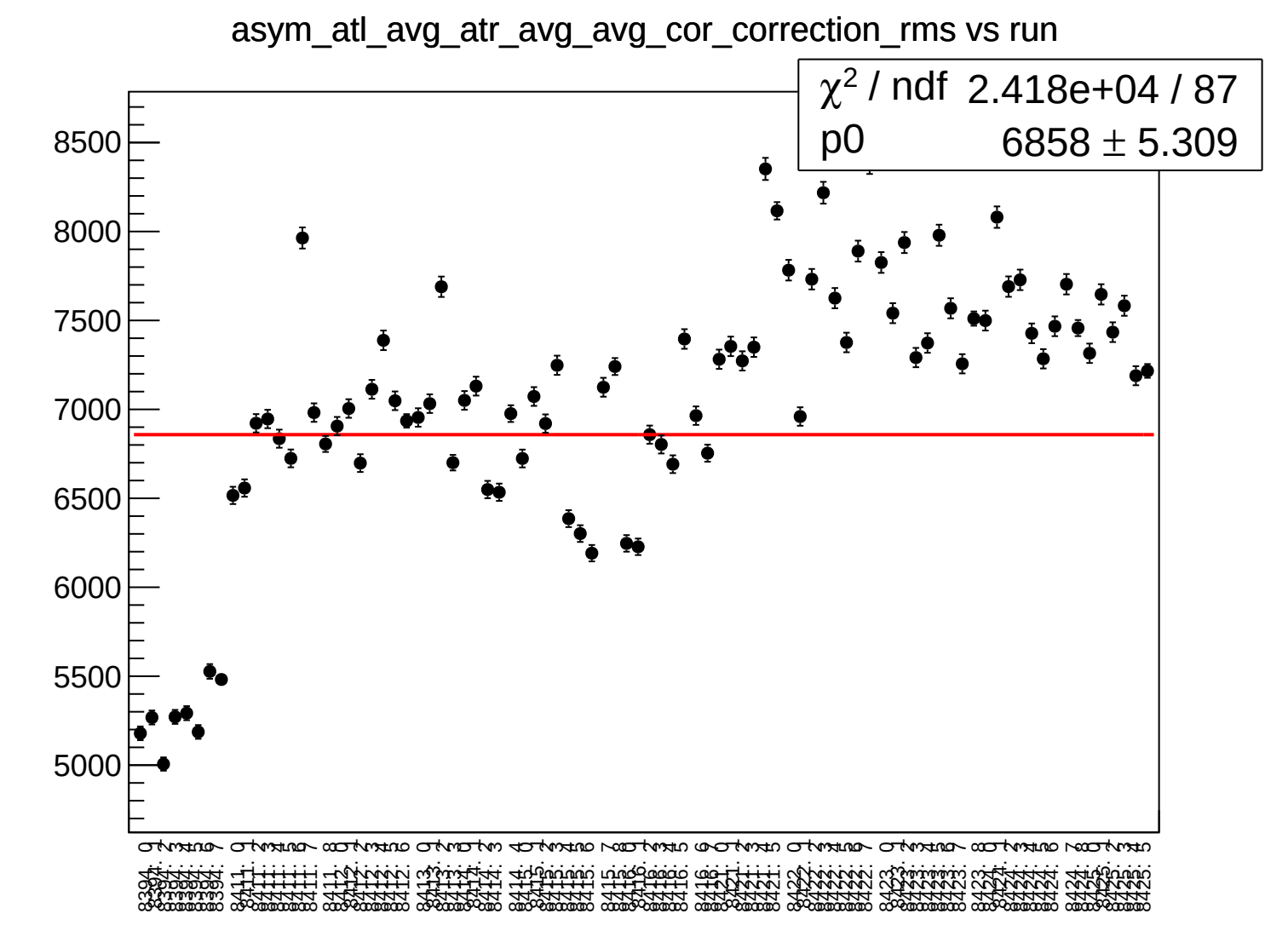

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 83.95 / 87
p0 −1467 ± 1402
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 162.2
Std Dev 0
2
1
0
−1
−2
−3

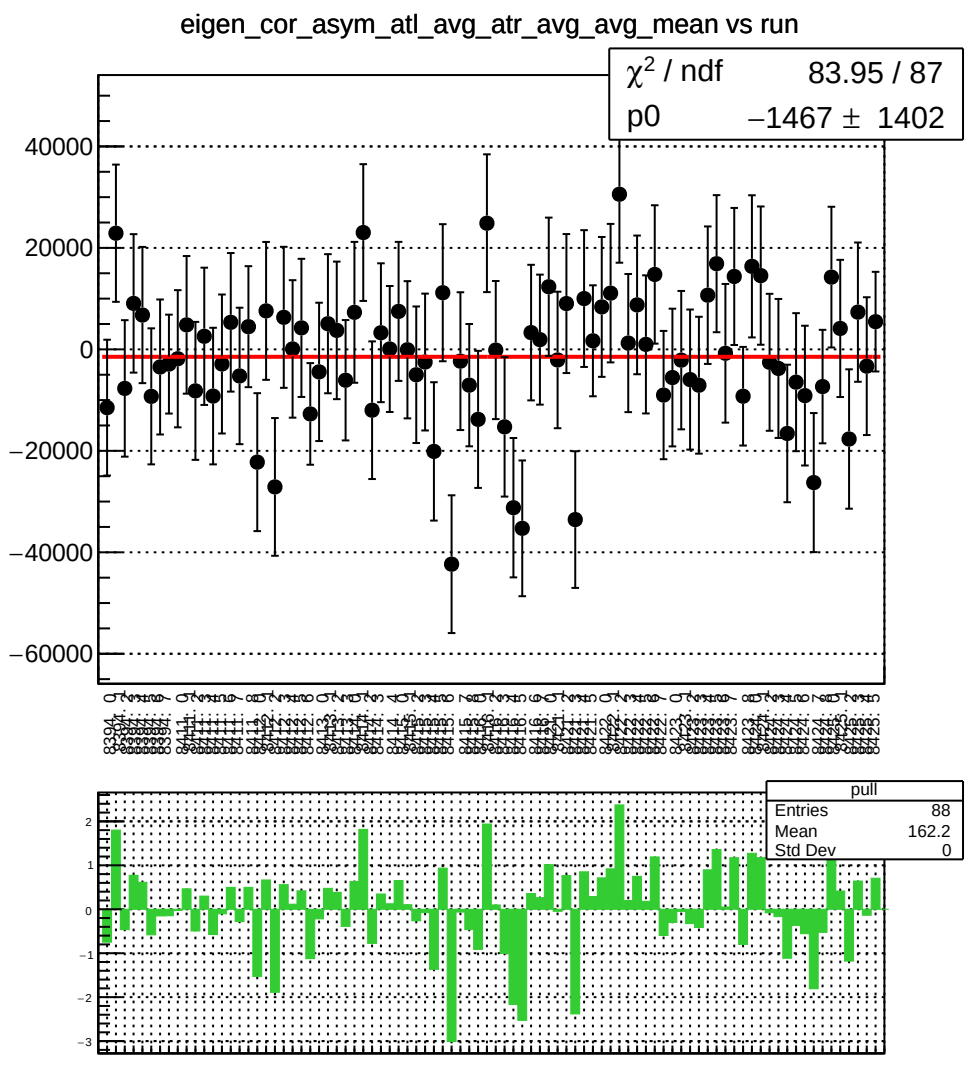

pull1D
Entries 88
Mean 0.007982
Std Dev 0.9767
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

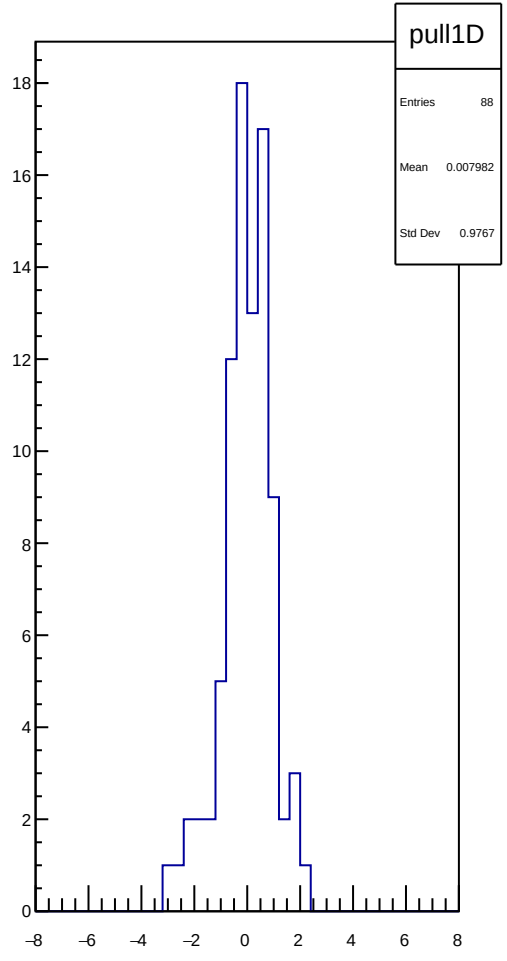

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 139.4 / 87
p0 1289 ± 0.9911
1340
1320
1300
1280
1260

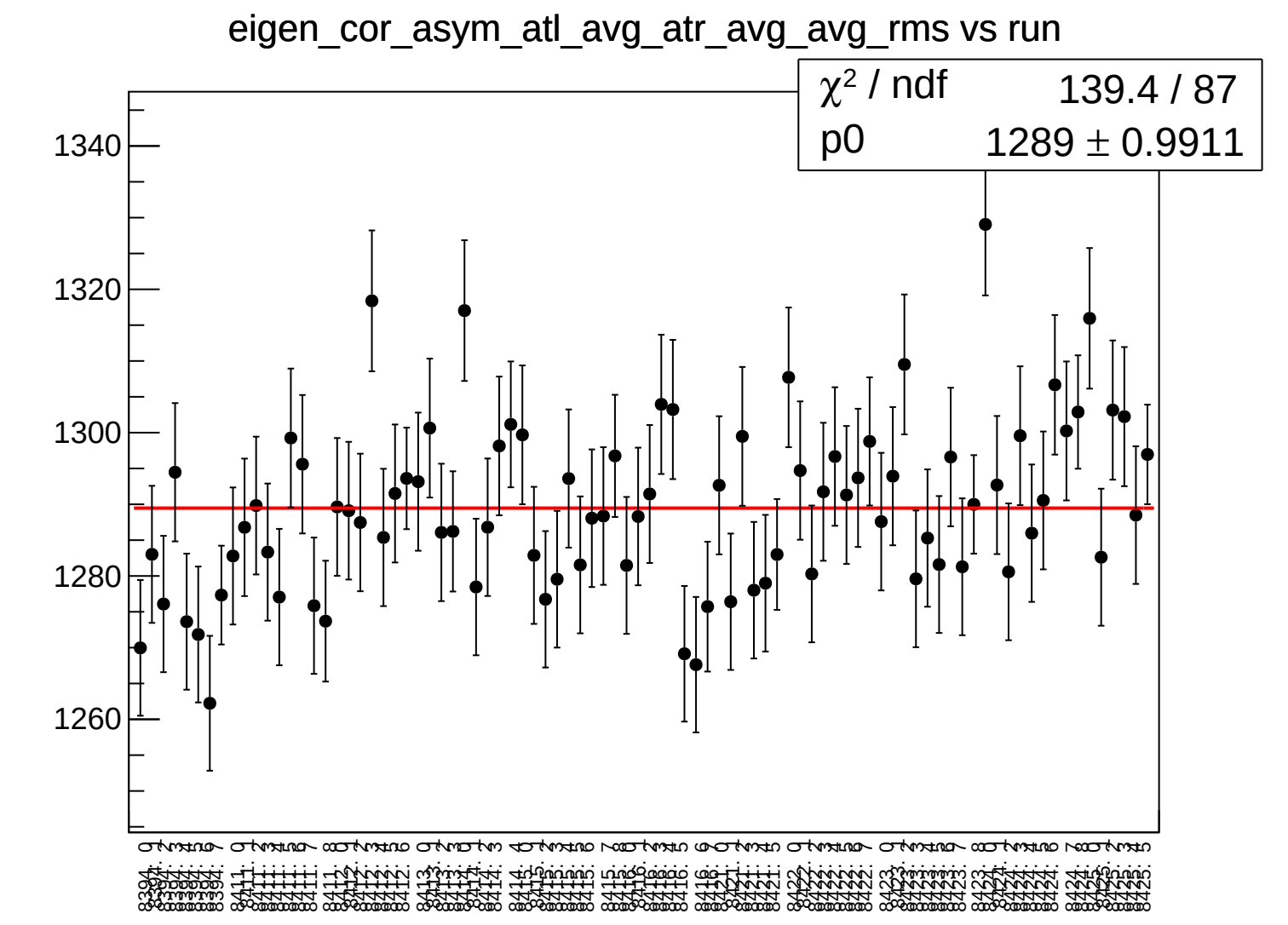

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 65.35 / 87
p0 3090 ± 7508
200
100
0
−100
−200
pull
Entries 88
Mean −50.38
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

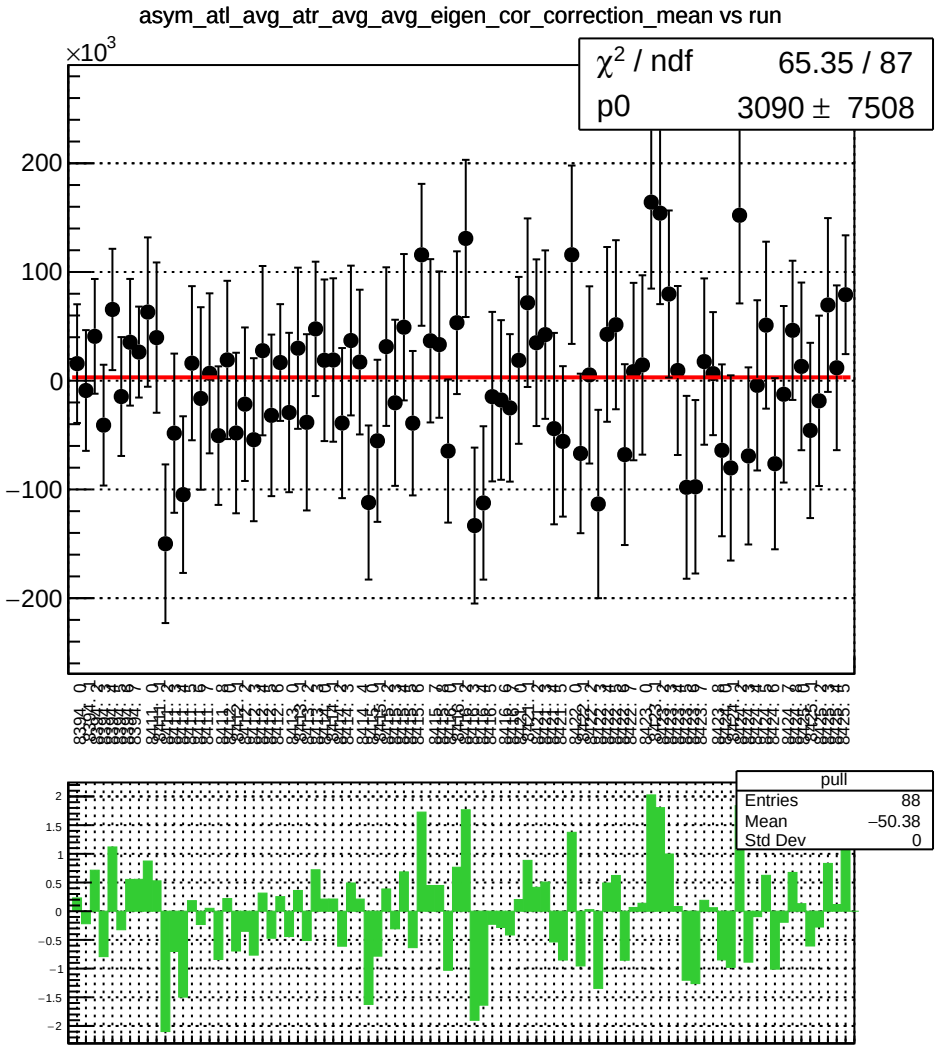

pull1D
Entries 88
Mean −0.01968
Std Dev 0.8615
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

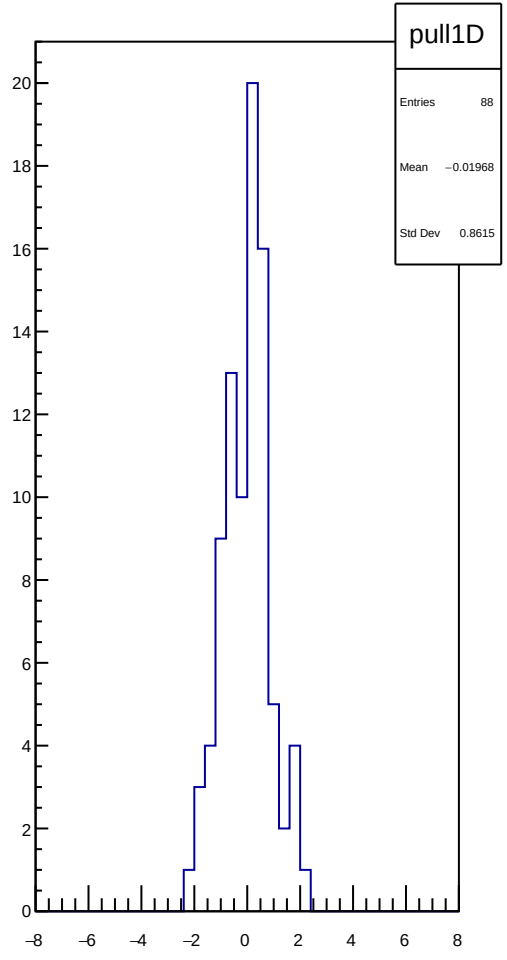

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 2.418e+04 / 87
p0 6858 ± 5.309
8500
8000
7500
7000
6500
6000
5500
5000

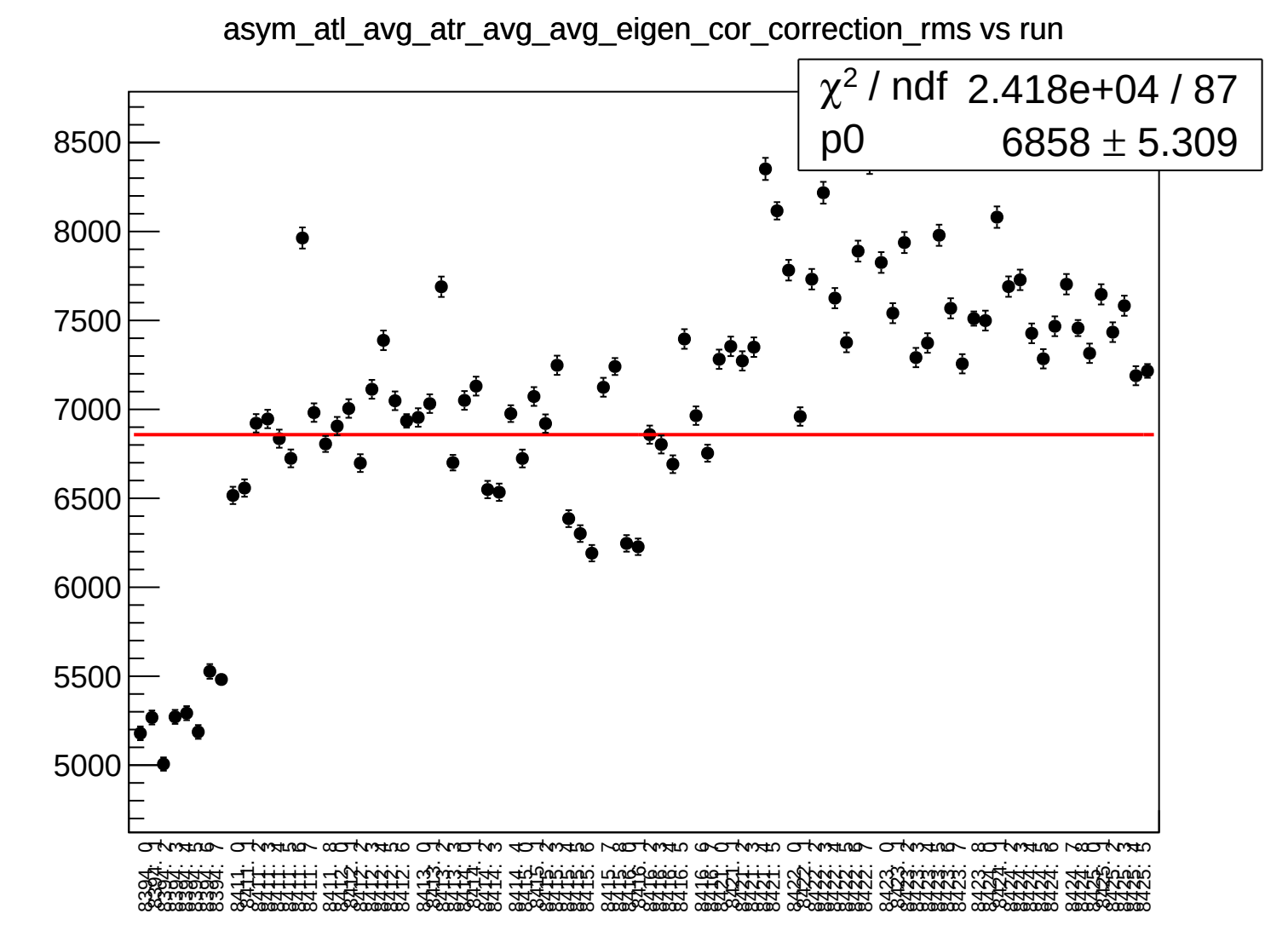

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 83.95 / 87
p0 −1467 ± 1402
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 162.2
Std Dev 0
2
1
0
−1
−2
−3

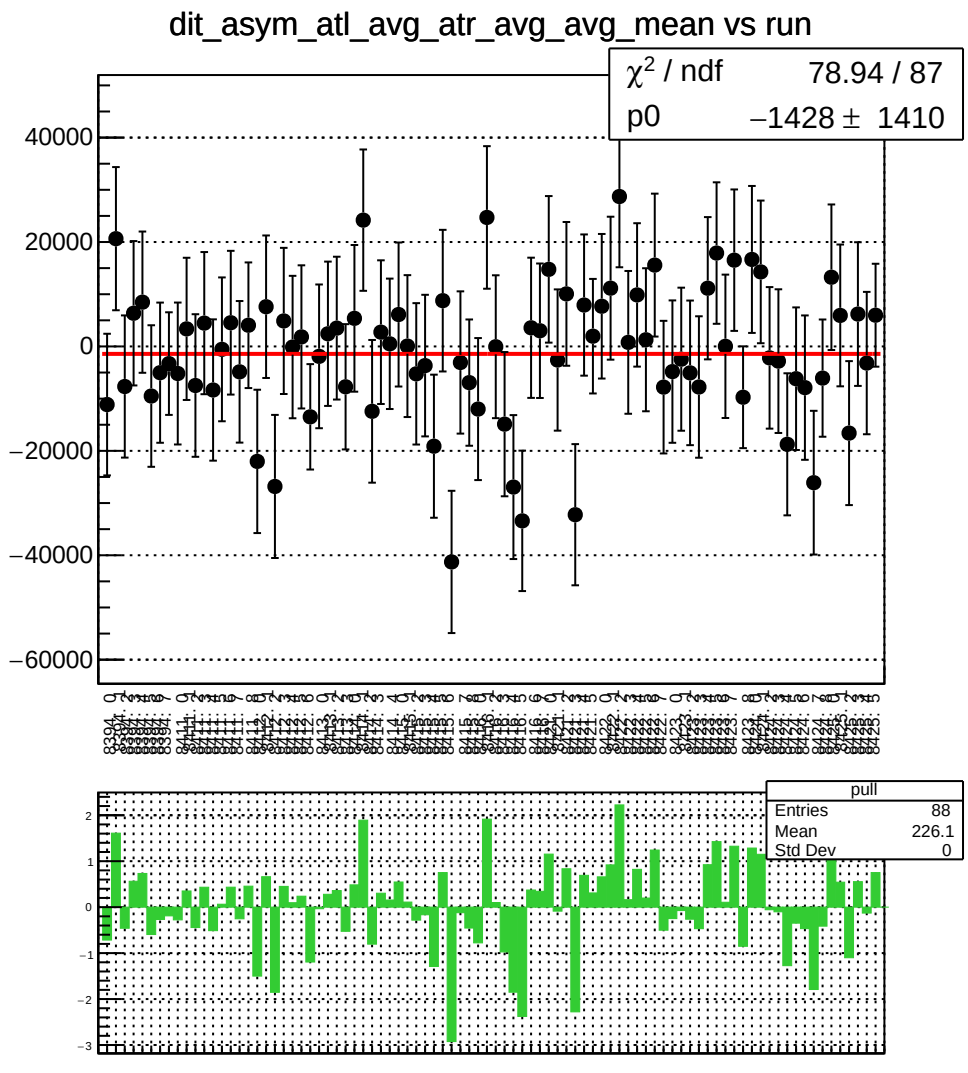

pull1D
Entries 88
Mean 0.007982
Std Dev 0.9767
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

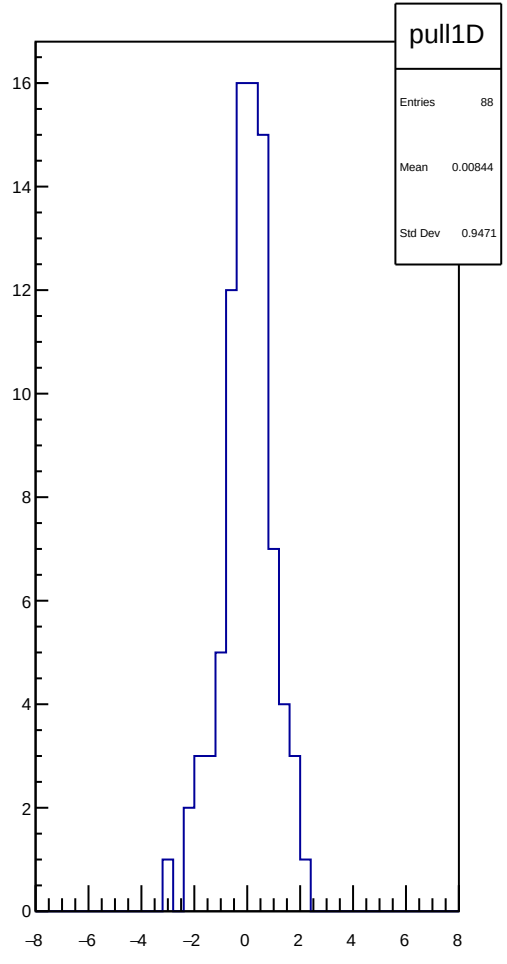

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 139.4 / 87
p0 1289 ± 0.9911
1340
1320
1300
1280
1260

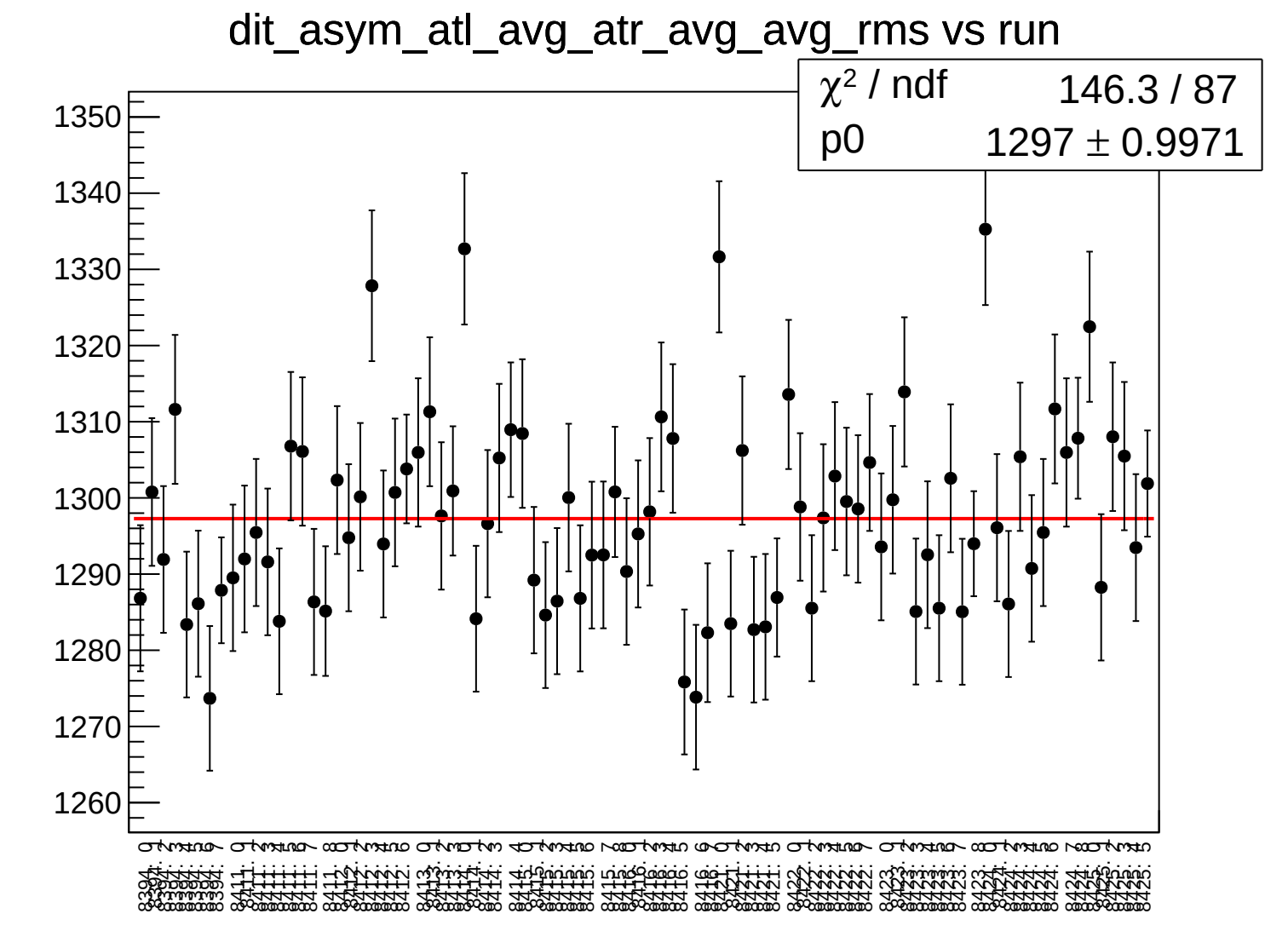

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 65.35 / 87
p0 3090 ± 7508
200
100
0
−100
−200
pull
Entries 88
Mean −50.38
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

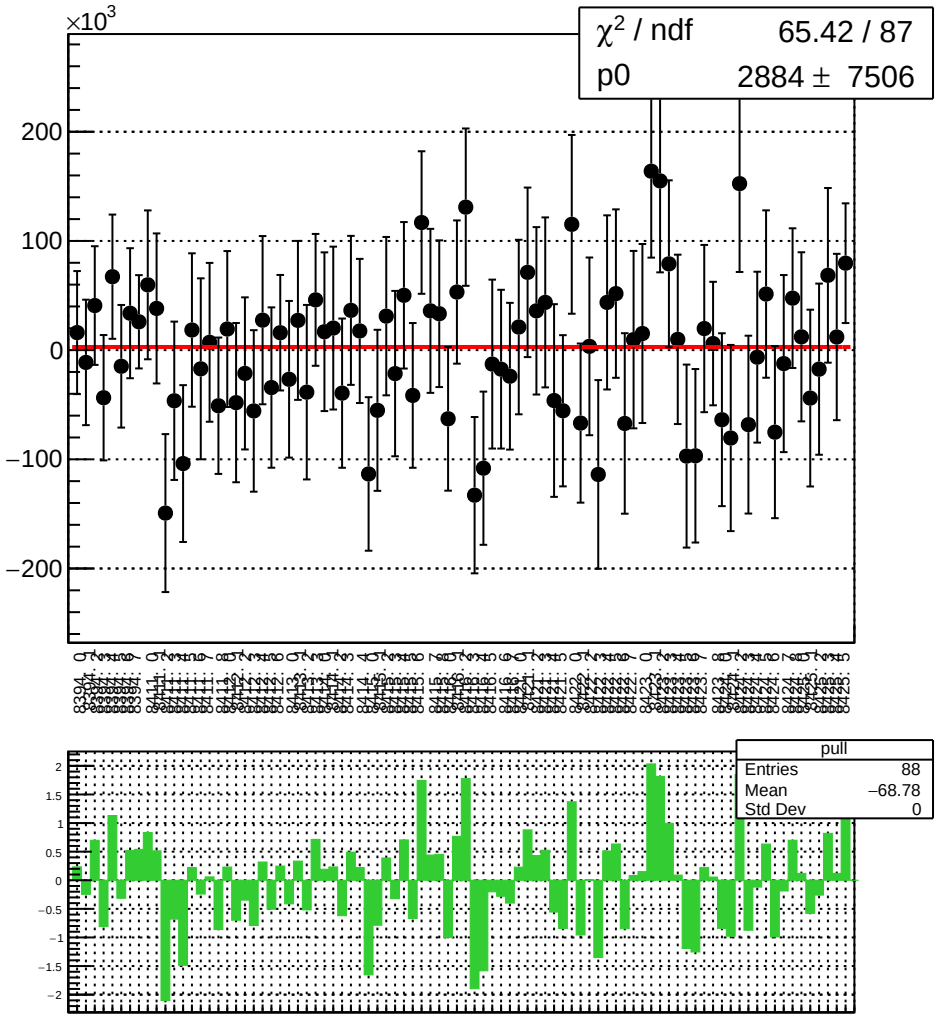

pull1D
Entries 88
Mean −0.01968
Std Dev 0.8615
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

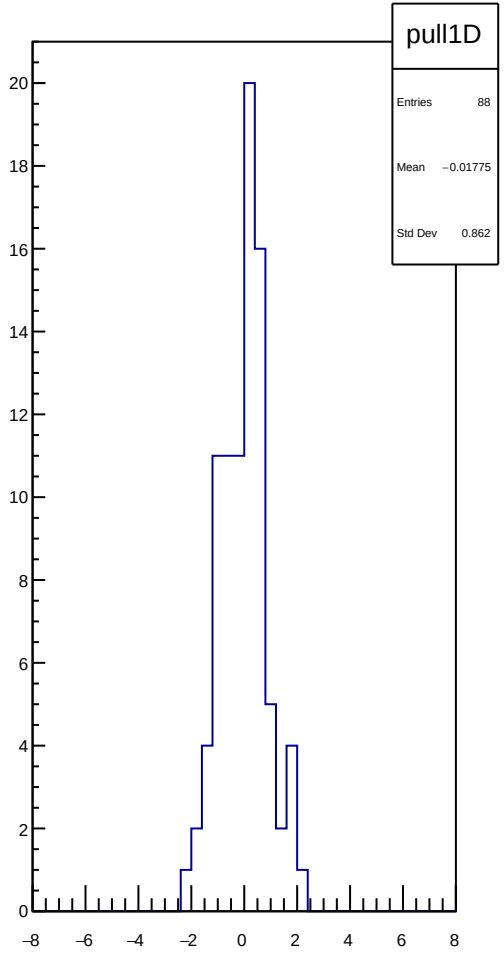

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.418e+04 / 87
p0 6858 ± 5.309
8500
8000
7500
7000
6500
6000
5500
5000

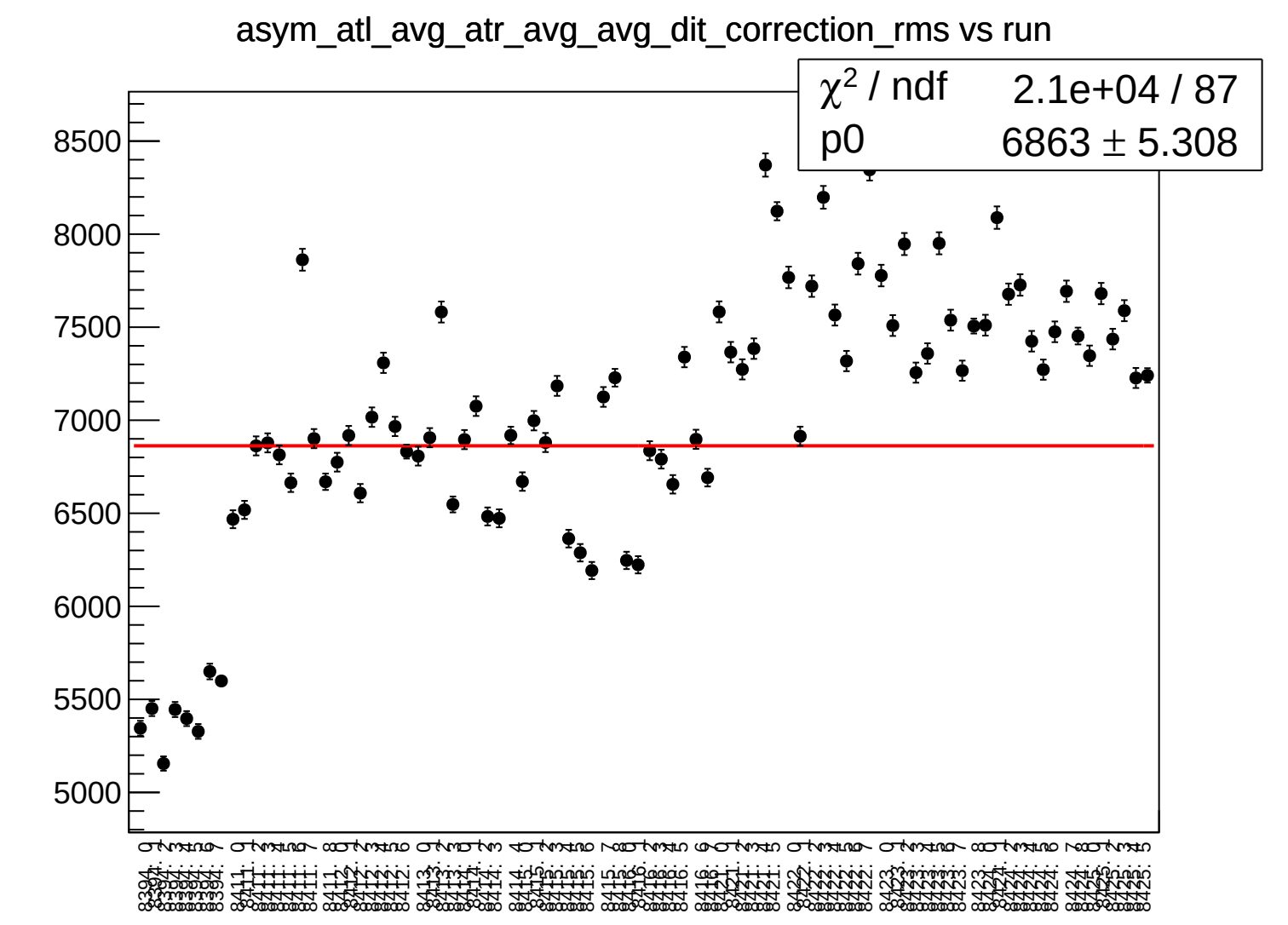

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 78.94 / 87
p0 −1428 ± 1410
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 226.1
Std Dev 0
2
1
0
−1
−2
−3

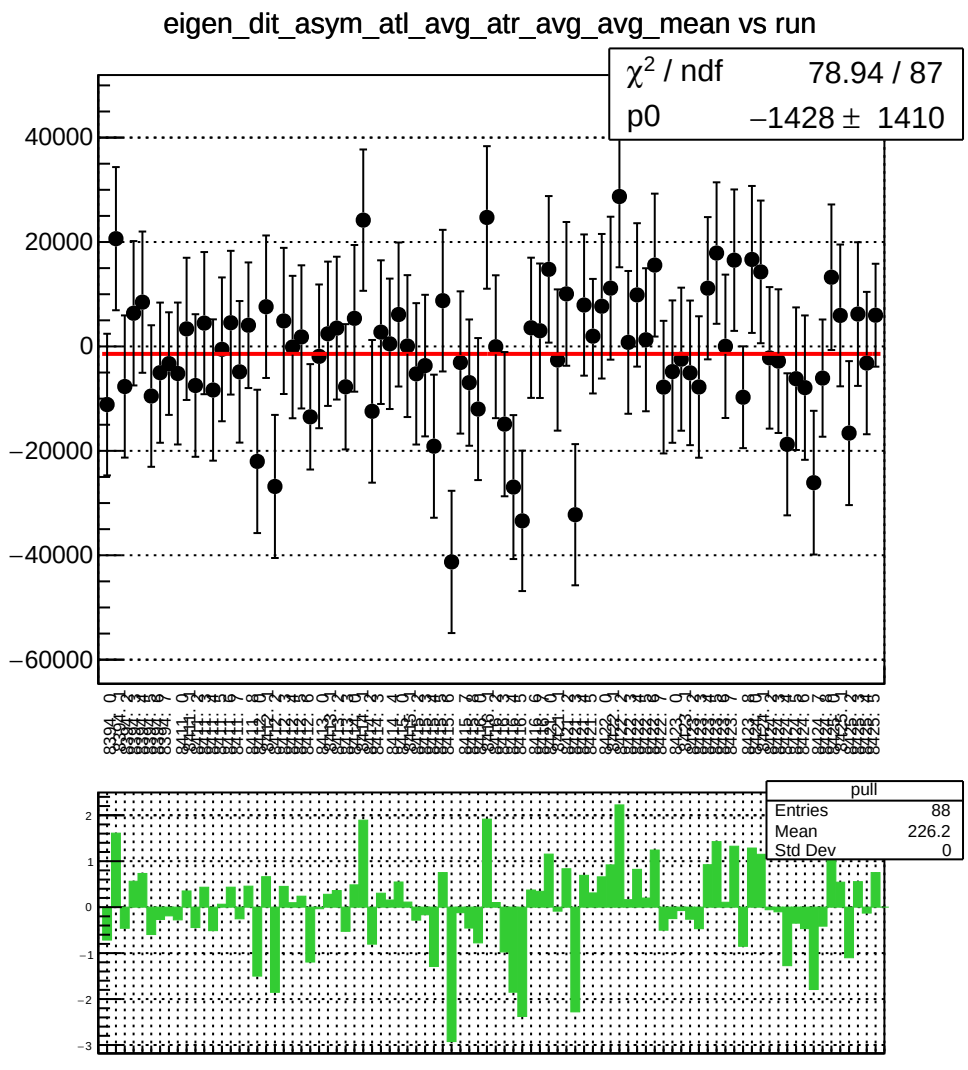

pull1D
Entries 88
Mean 0.00844
Std Dev 0.9471
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

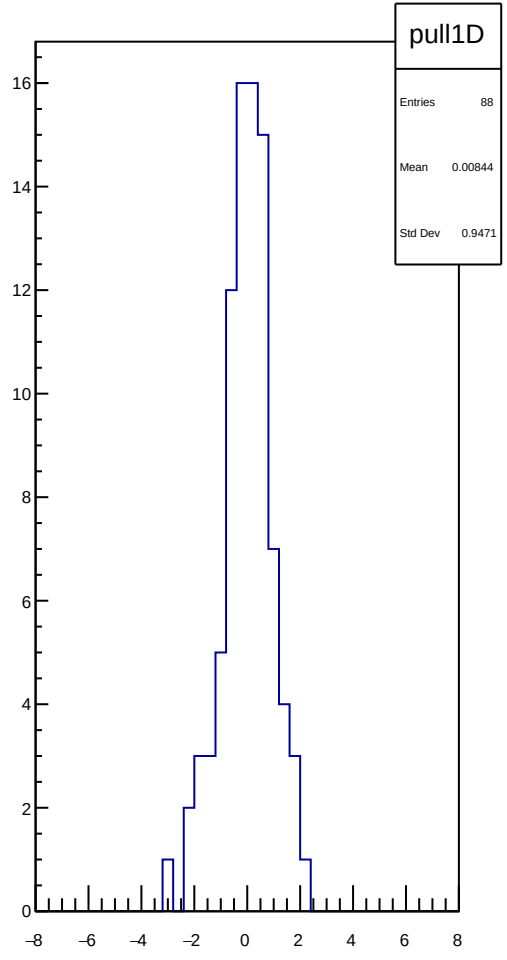

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 146.3 / 87
p0 1297 ± 0.9971
1350
1340
1330
1320
1310
1300
1290
1280
1270
1260

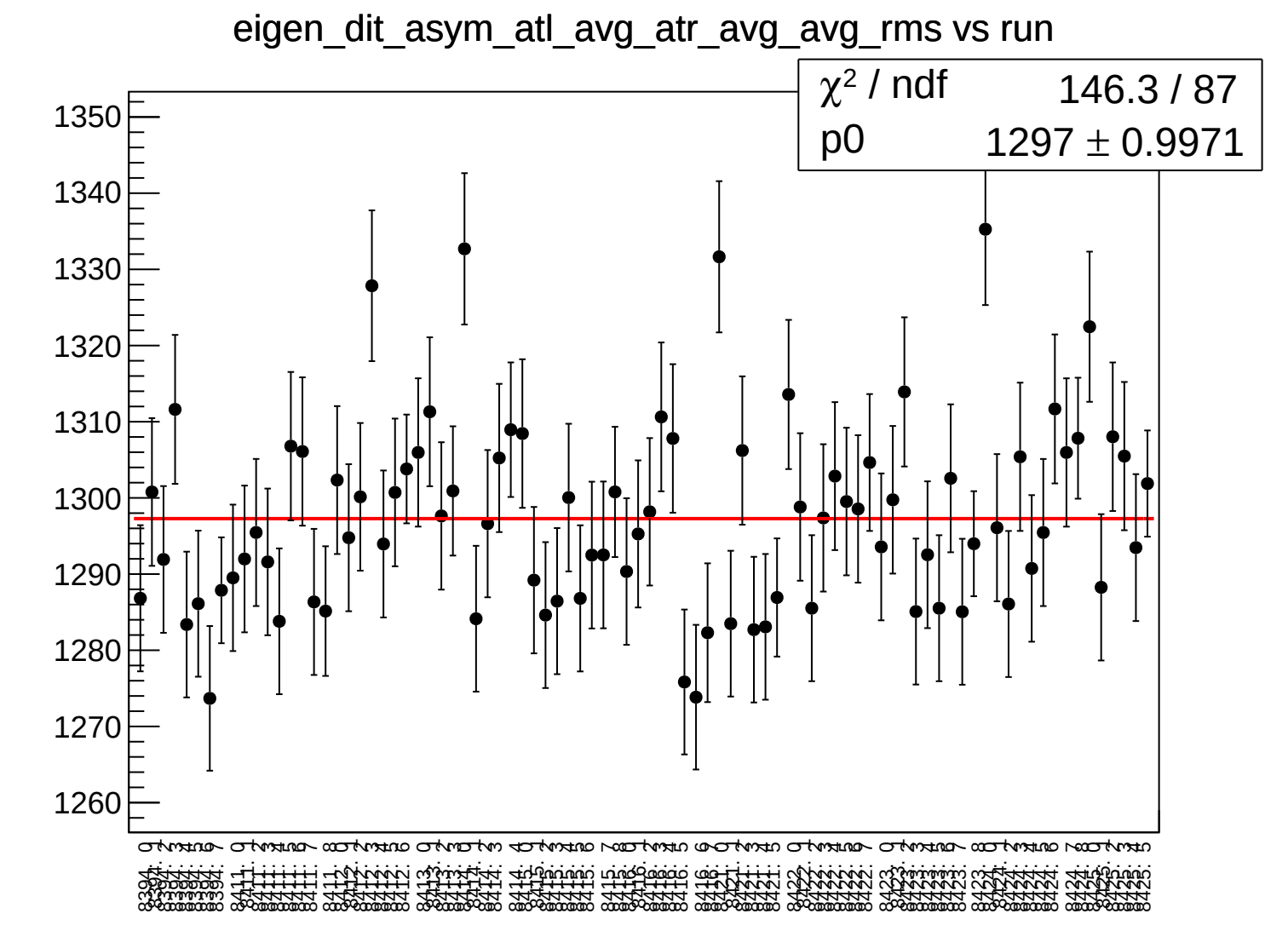

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 65.42 / 87
p0 2884 ± 7506
200
100
0
−100
−200
pull
Entries 88
Mean −68.78
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

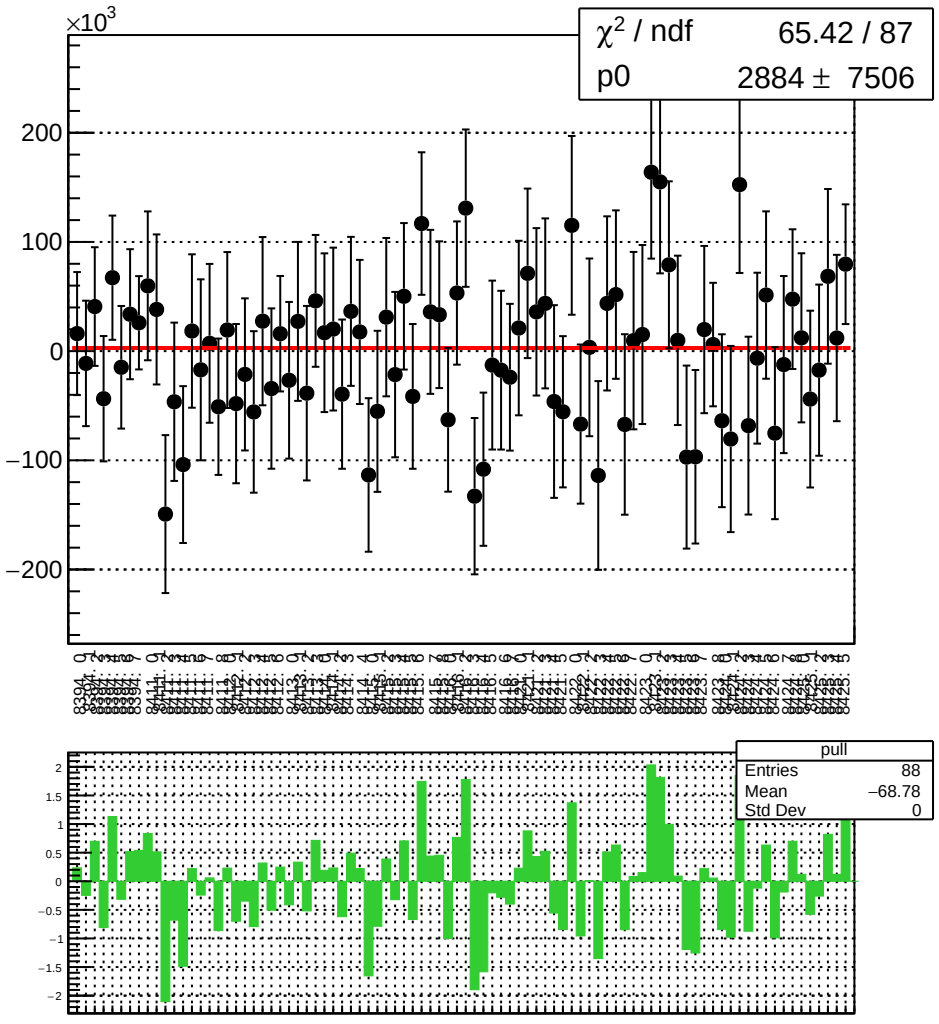

pull1D
Entries 88
Mean −0.01775
Std Dev 0.862
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

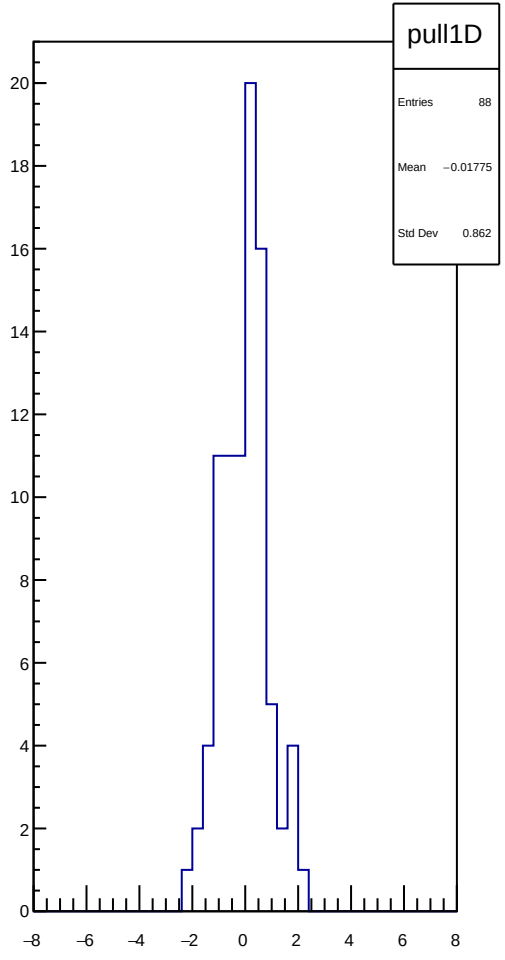

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 2.1e+04 / 87
p0 6863 ± 5.308
8500
8000
7500
7000
6500
6000
5500
5000

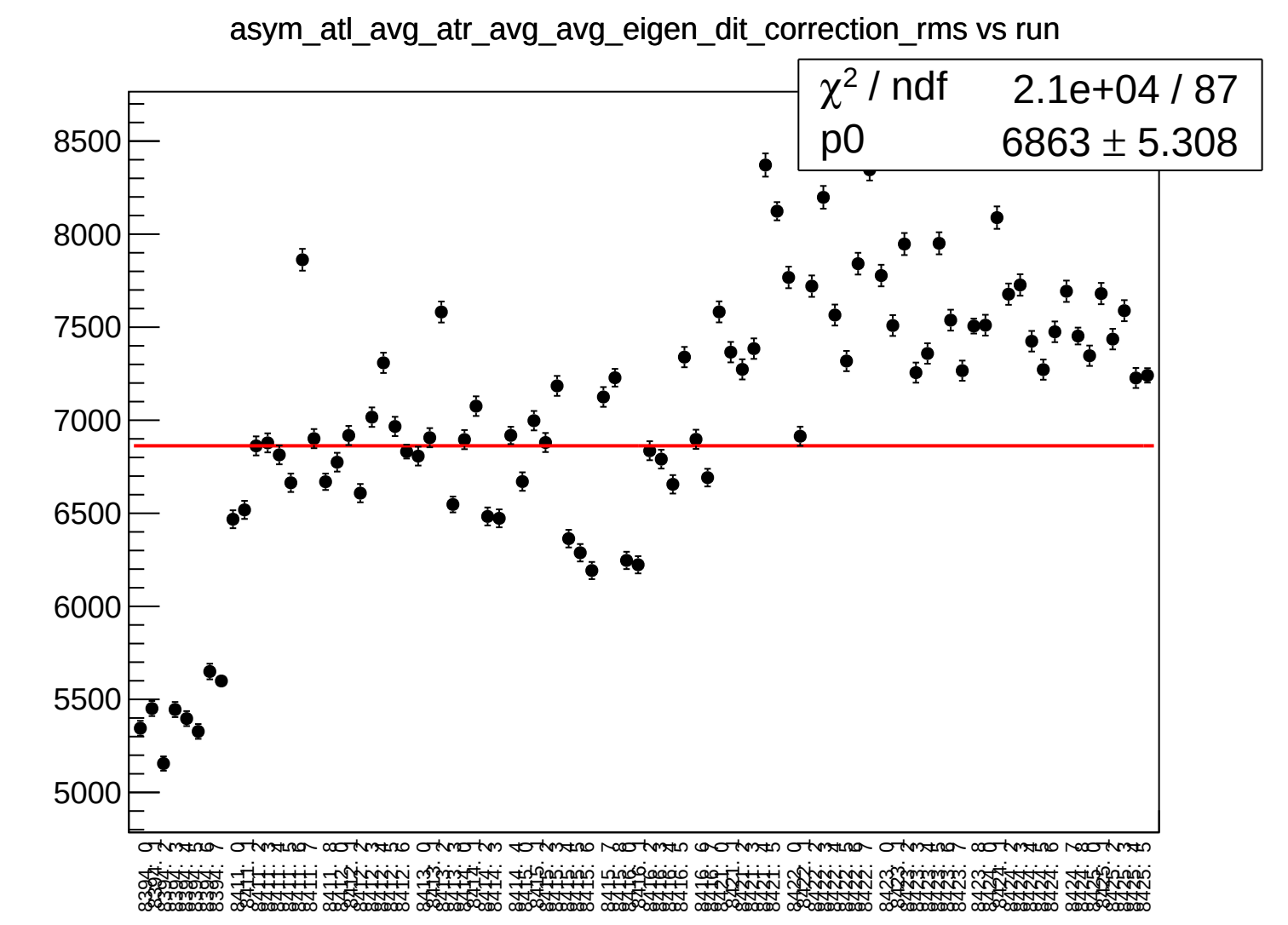

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 78.94 / 87
p0 −1428 ± 1410
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 226.2
Std Dev 0
2
1
0
−1
−2
−3

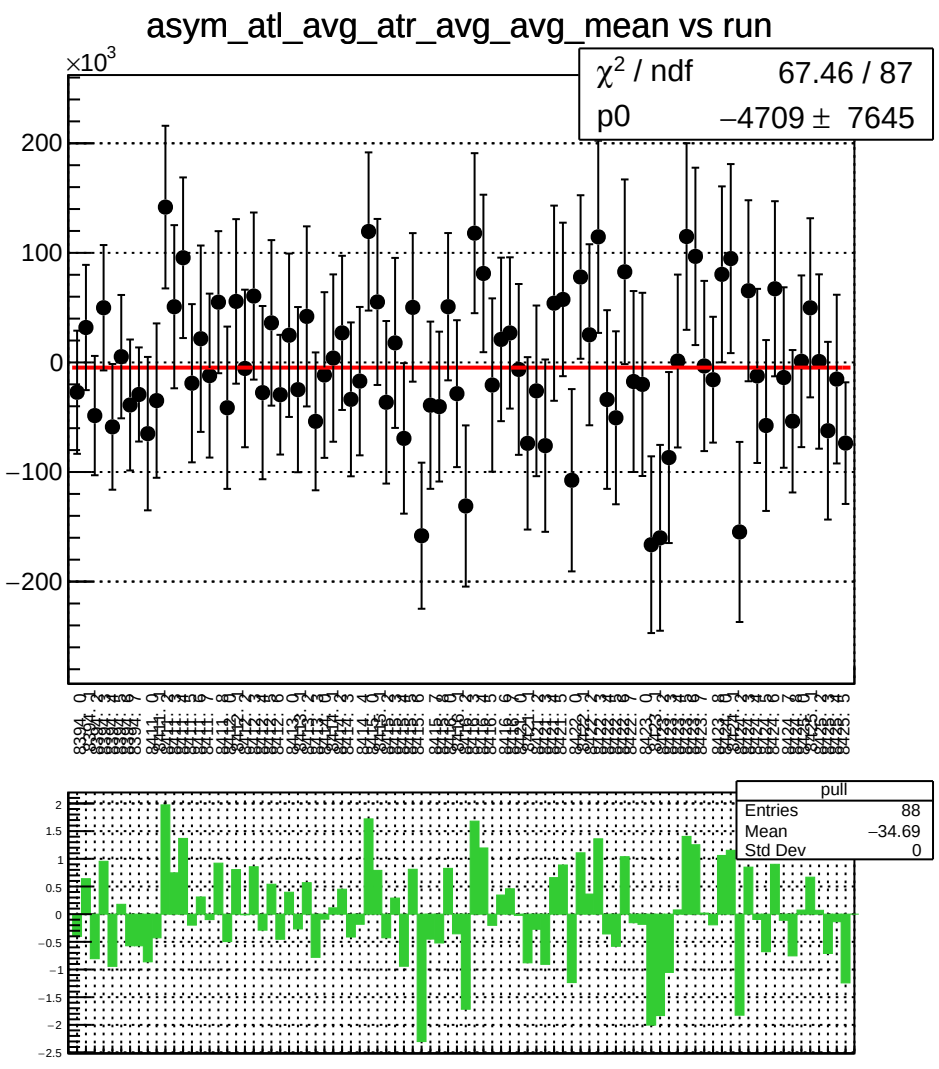

pull1D
Entries 88
Mean 0.00844
Std Dev 0.9471
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

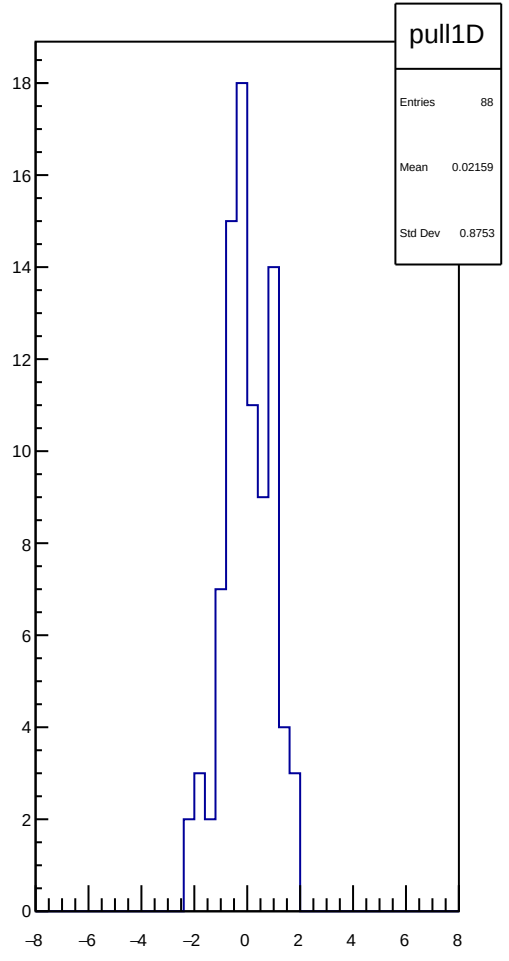

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 146.3 / 87
p0 1297 ± 0.9971
1350
1340
1330
1320
1310
1300
1290
1280
1270
1260

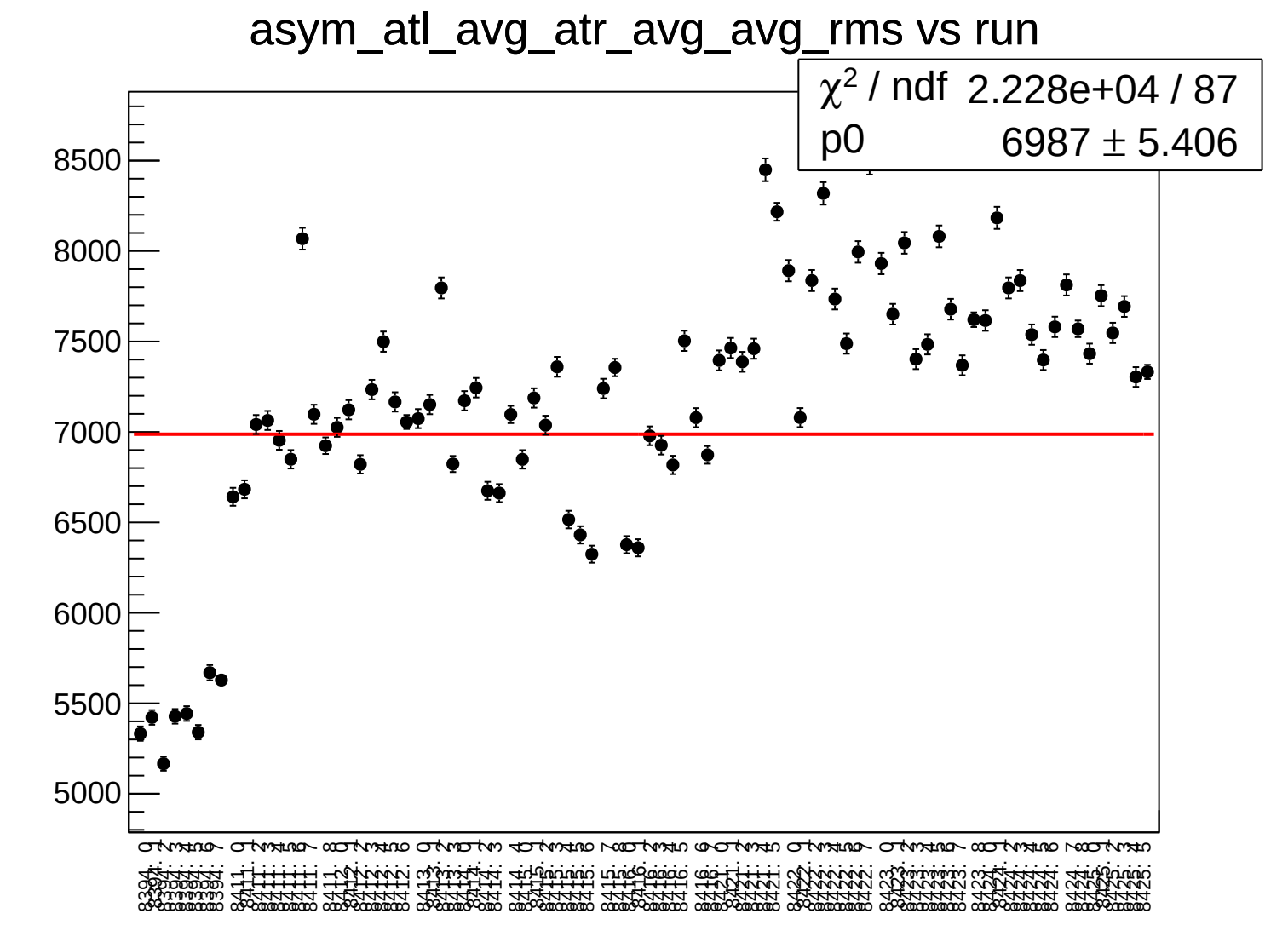

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 65.42 / 87
p0 2884 ± 7506
200
100
0
−100
−200
pull
Entries 88
Mean −68.78
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

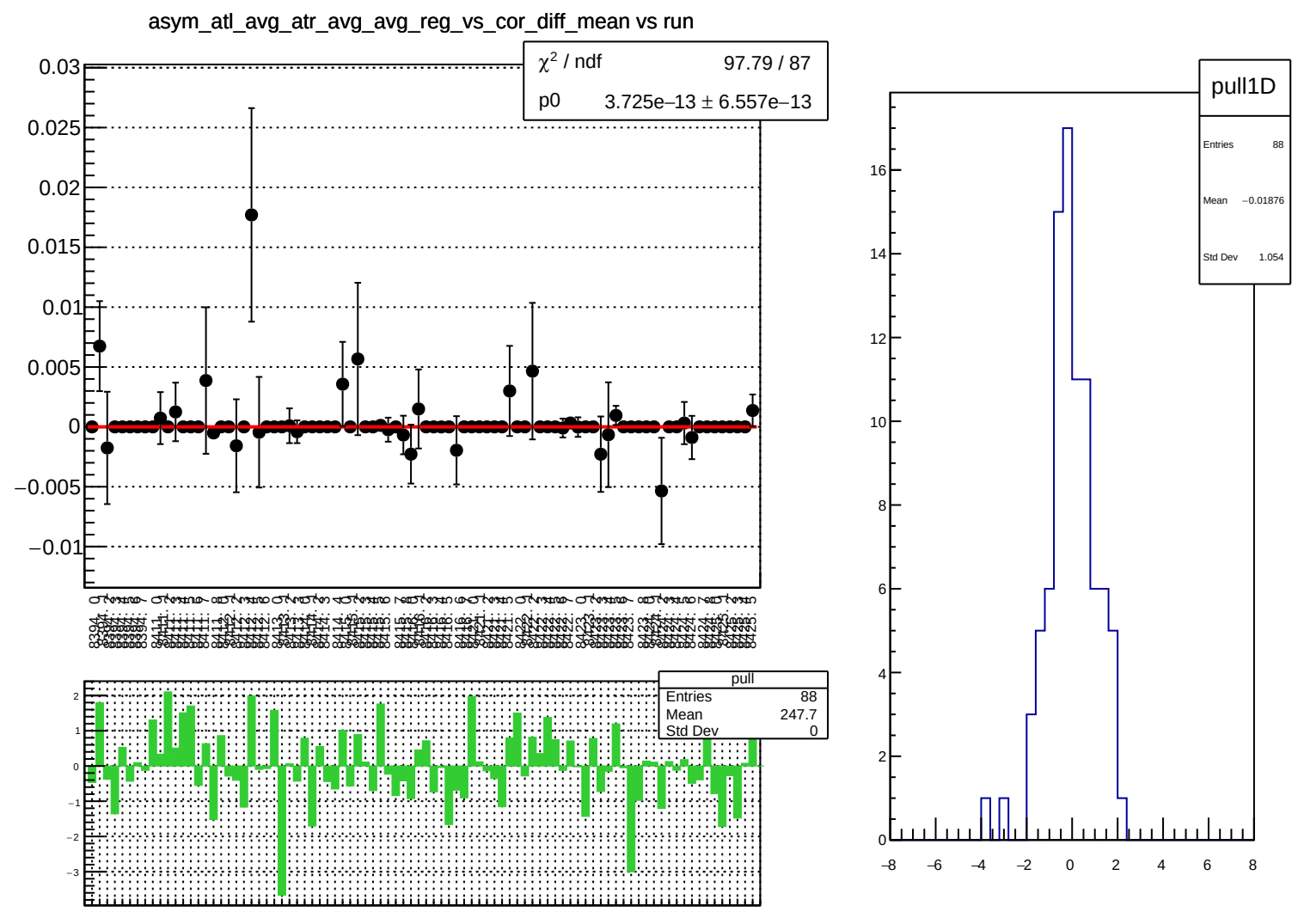

pull1D
Entries 88
Mean −0.01775
Std Dev 0.862
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

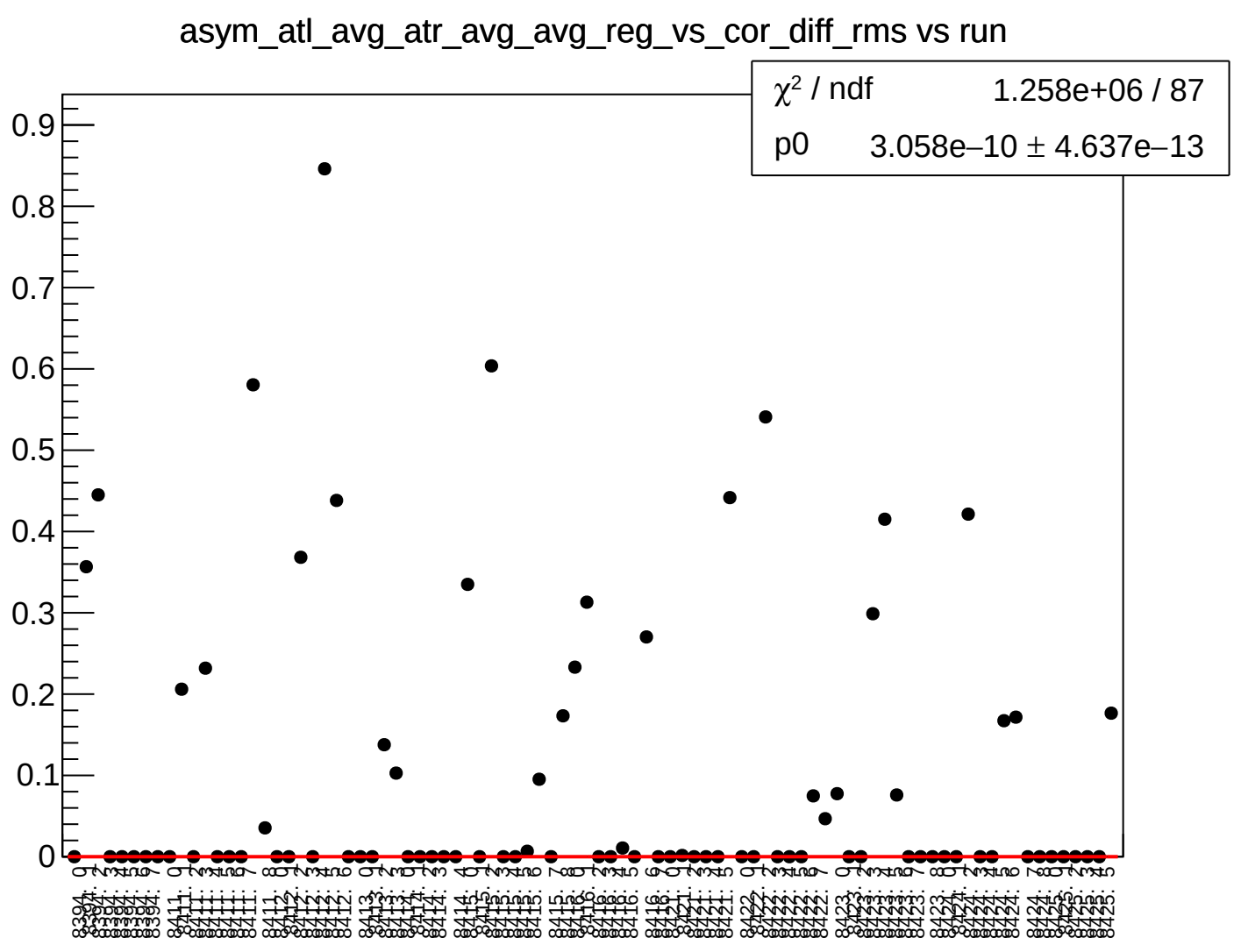

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.1e+04 / 87
p0 6863 ± 5.308
8500
8000
7500
7000
6500
6000
5500
5000

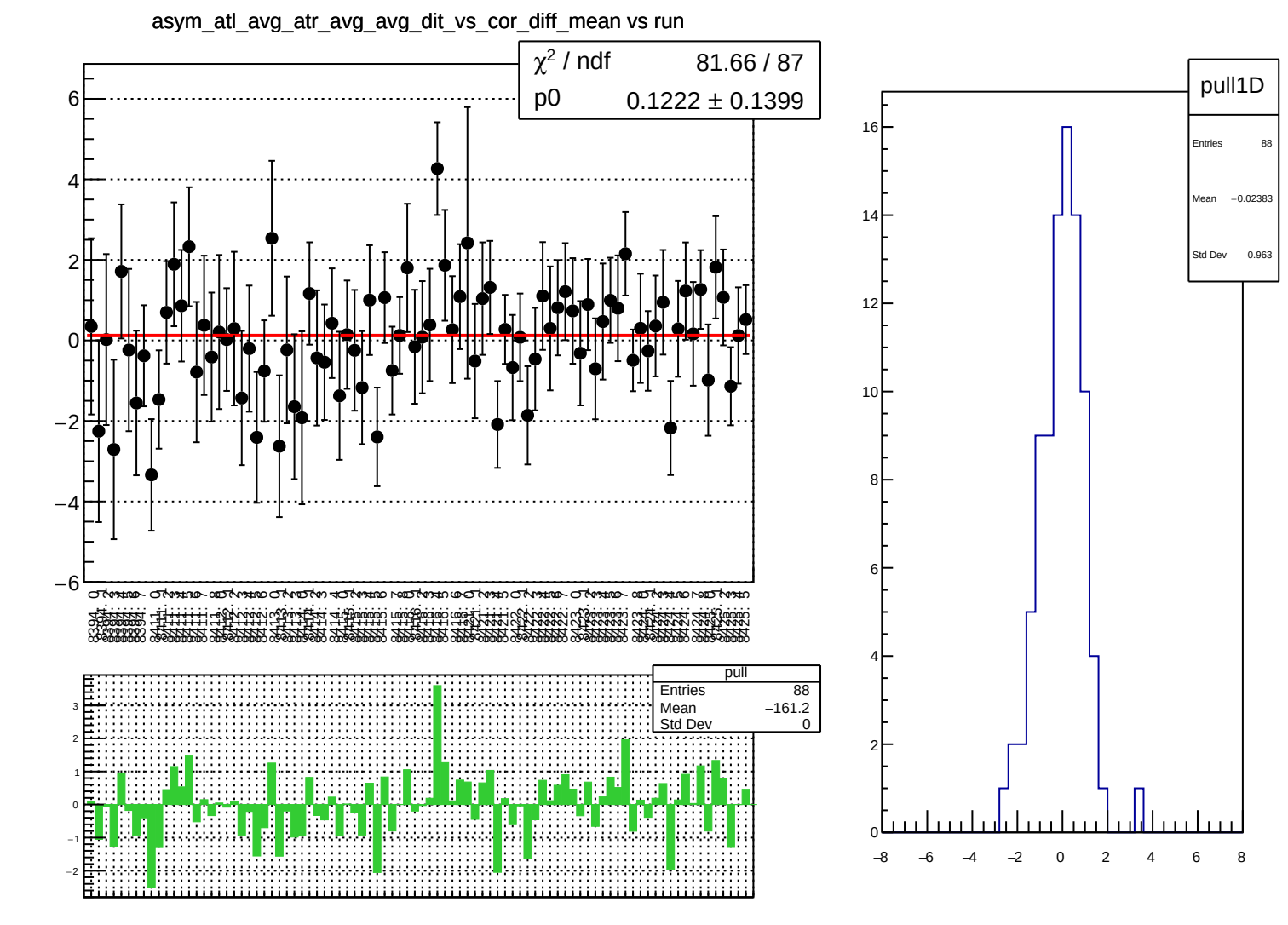

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 67.46 / 87
p0 −4709 ± 7645
200
100
0
−100
−200
pull
Entries 88
Mean −34.69
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

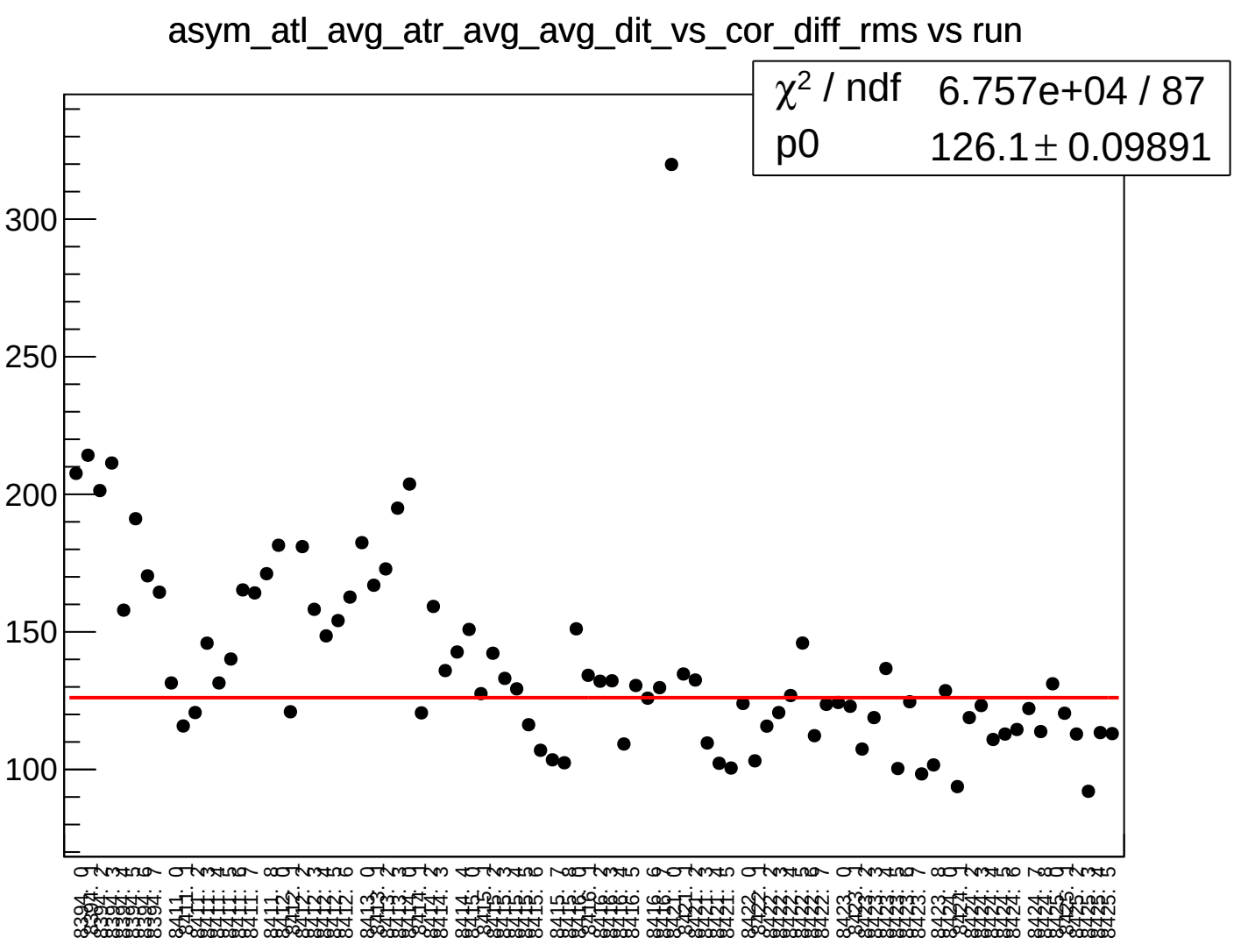

pull1D
Entries 88
Mean 0.02159
Std Dev 0.8753
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

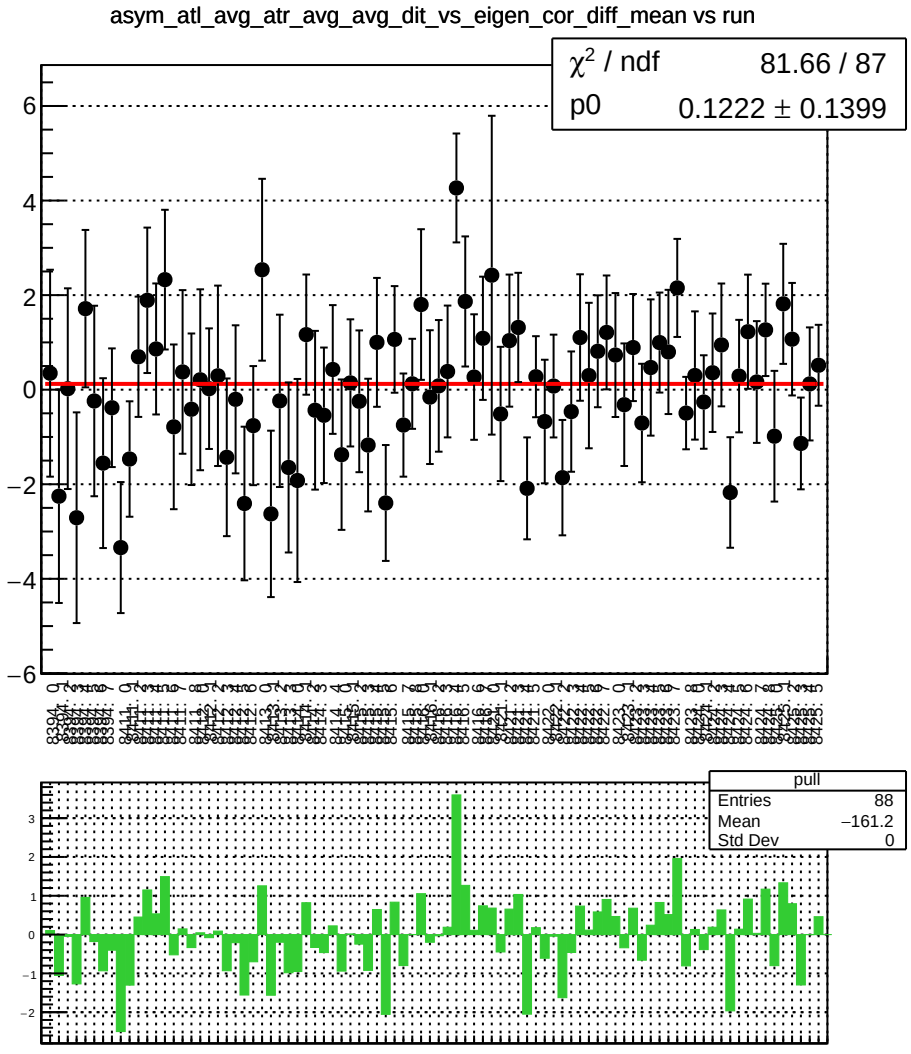

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 2.228e+04 / 87
p0 6987 ± 5.406
8500
8000
7500
7000
6500
6000
5500
5000

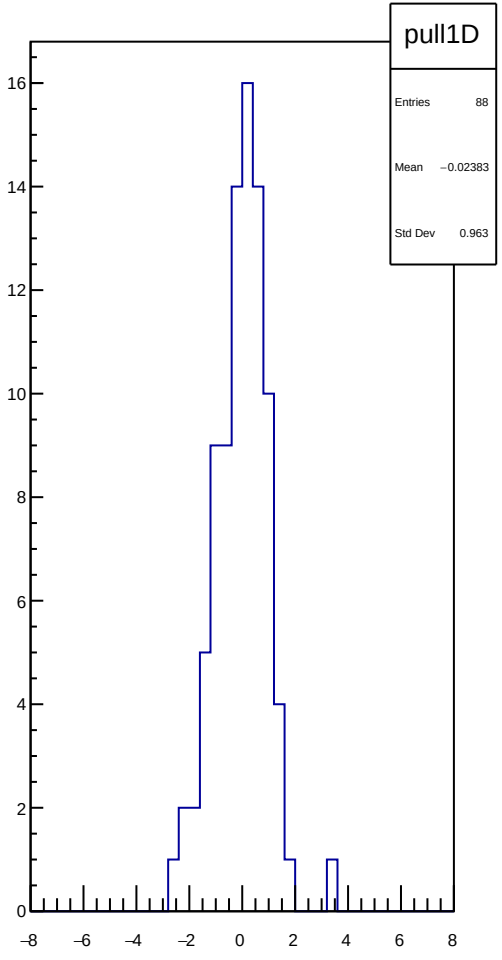

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 97.79 / 87
p0 3.725e−13 ± 6.557e−13
0.03
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 88
Mean 247.7
Std Dev 0
pull1D
Entries 88
Mean −0.01876
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

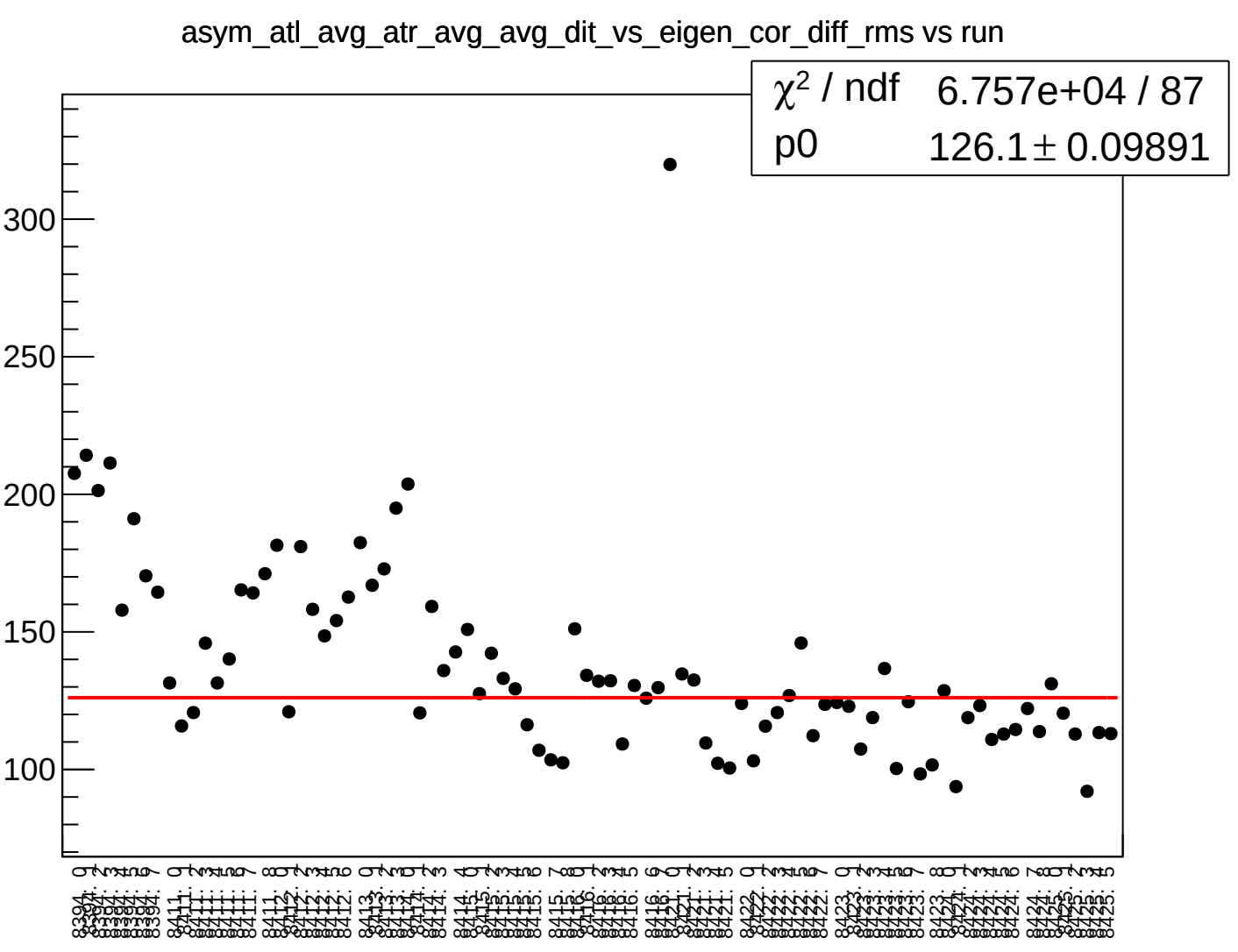

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.258e+06 / 87
p0 3.058e−10 ± 4.637e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

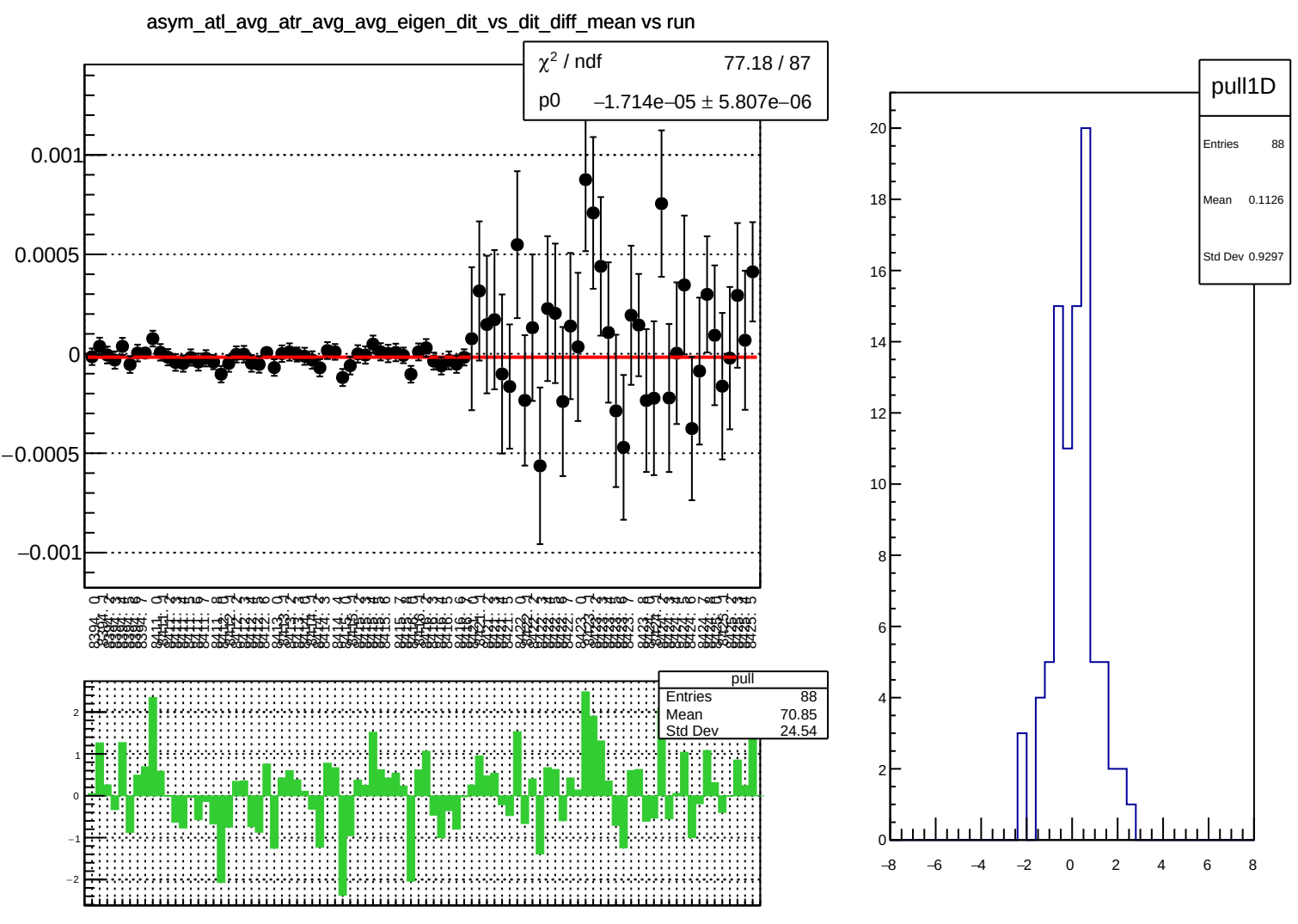

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 81.66 / 87
p0 0.1222 ± 0.1399
pull
Entries 88
Mean −161.2
Std Dev 0
pull1D
Entries 88
Mean −0.02383
Std Dev 0.963

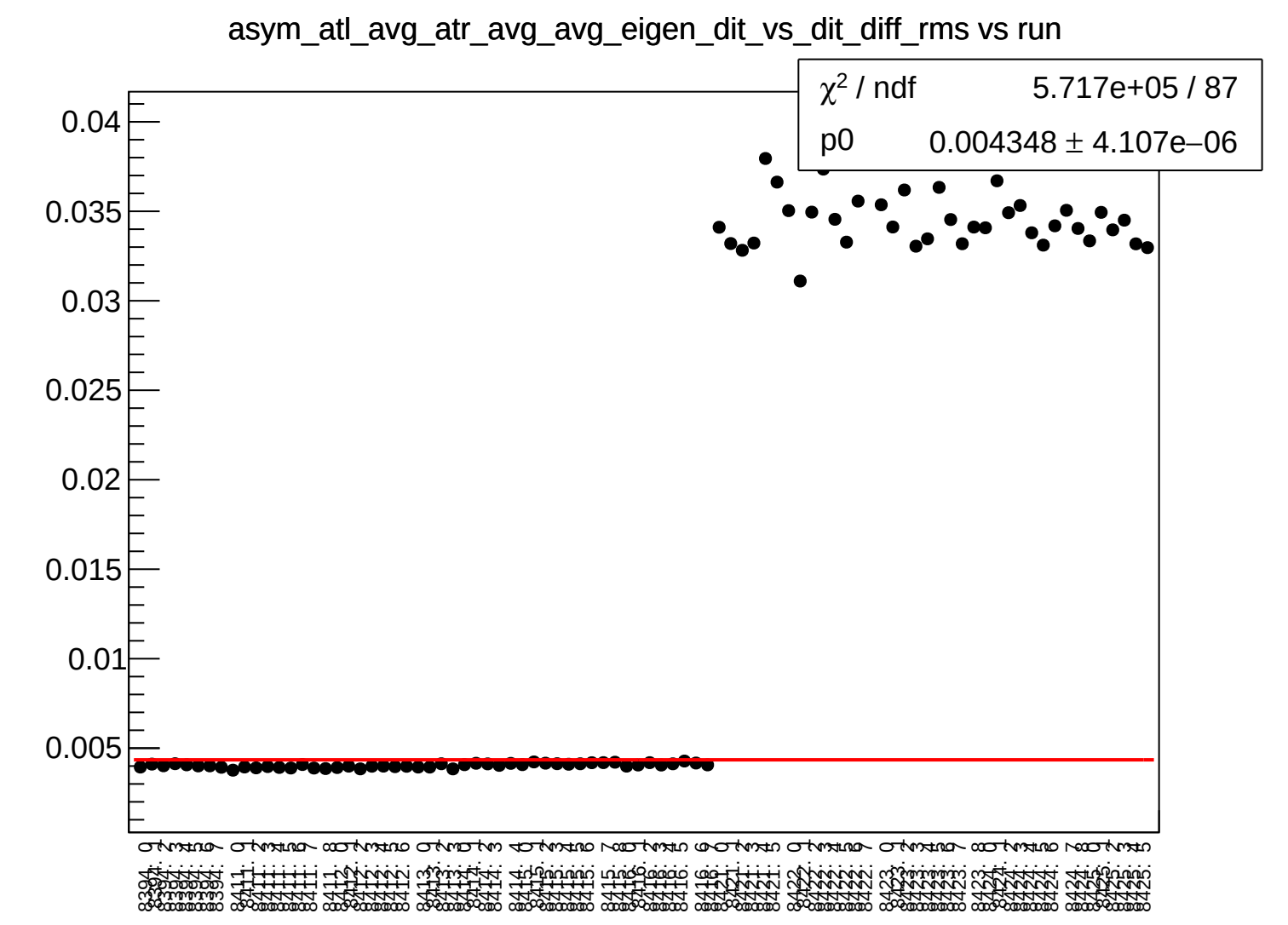

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.757e+04 / 87
p0 126.1 ± 0.09891
300
250
200
150
100

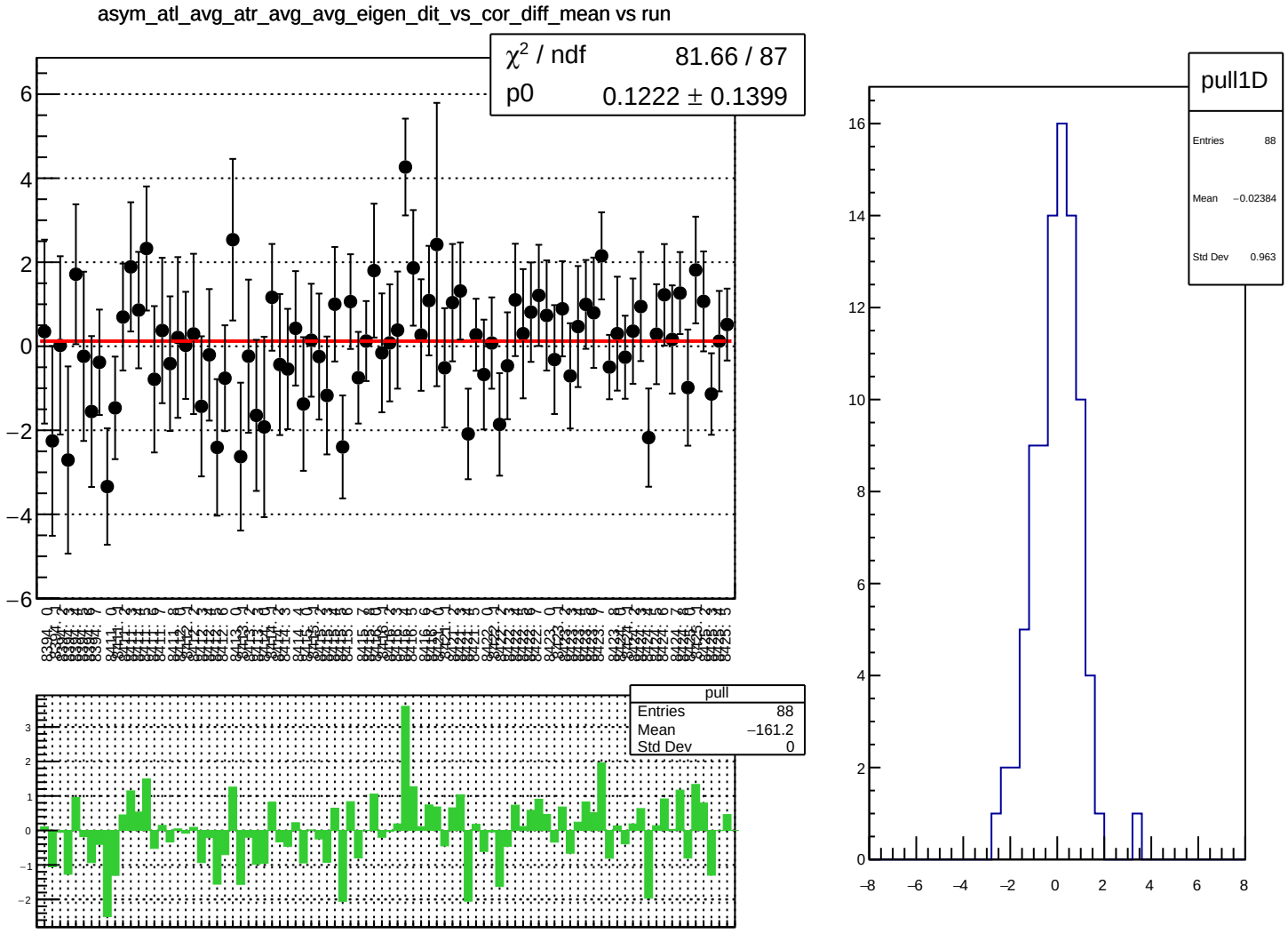

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.66 / 87
p0 0.1222 ± 0.1399
pull
Entries 88
Mean −161.2
Std Dev 0

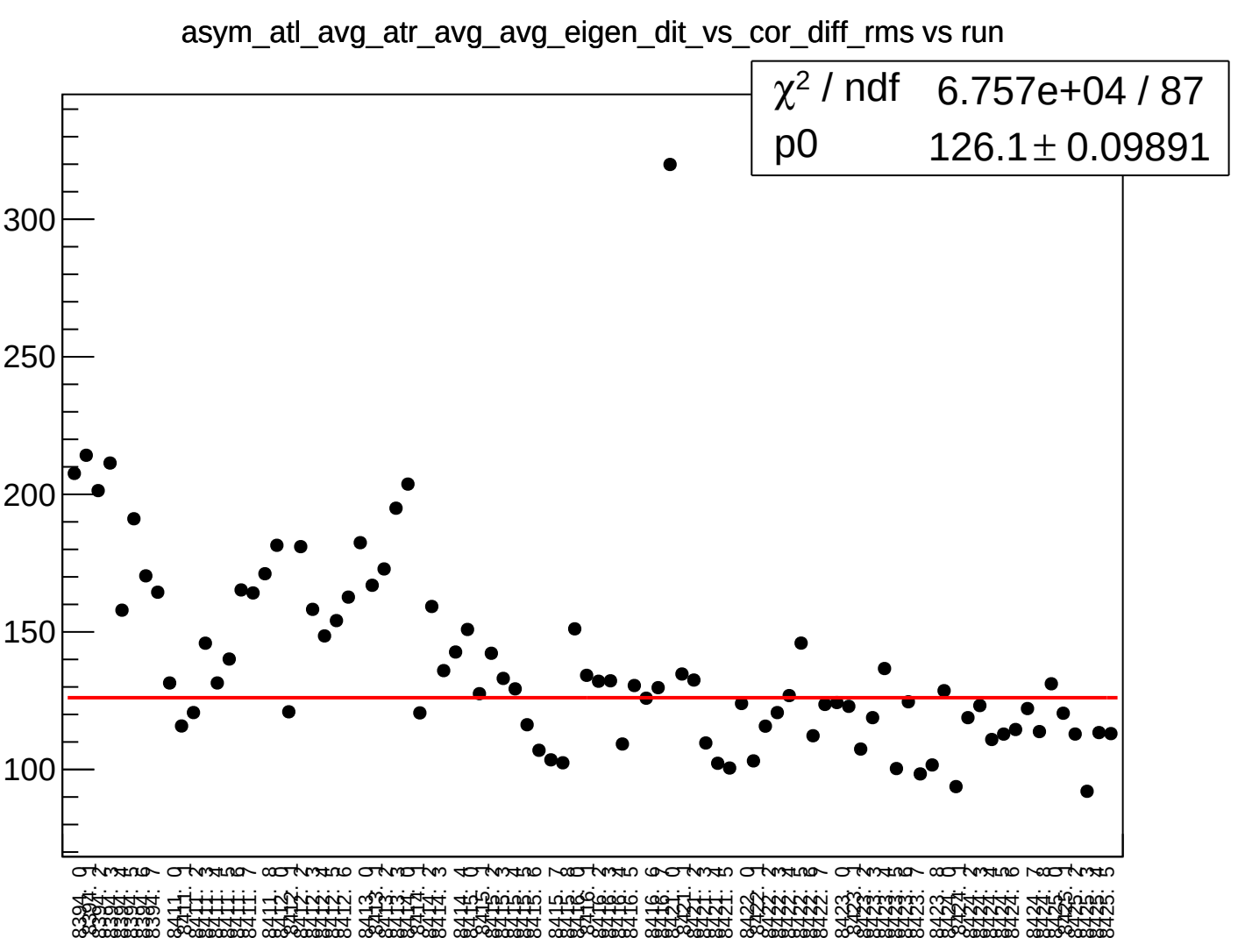

pull1D
Entries 88
Mean −0.02383
Std Dev 0.963

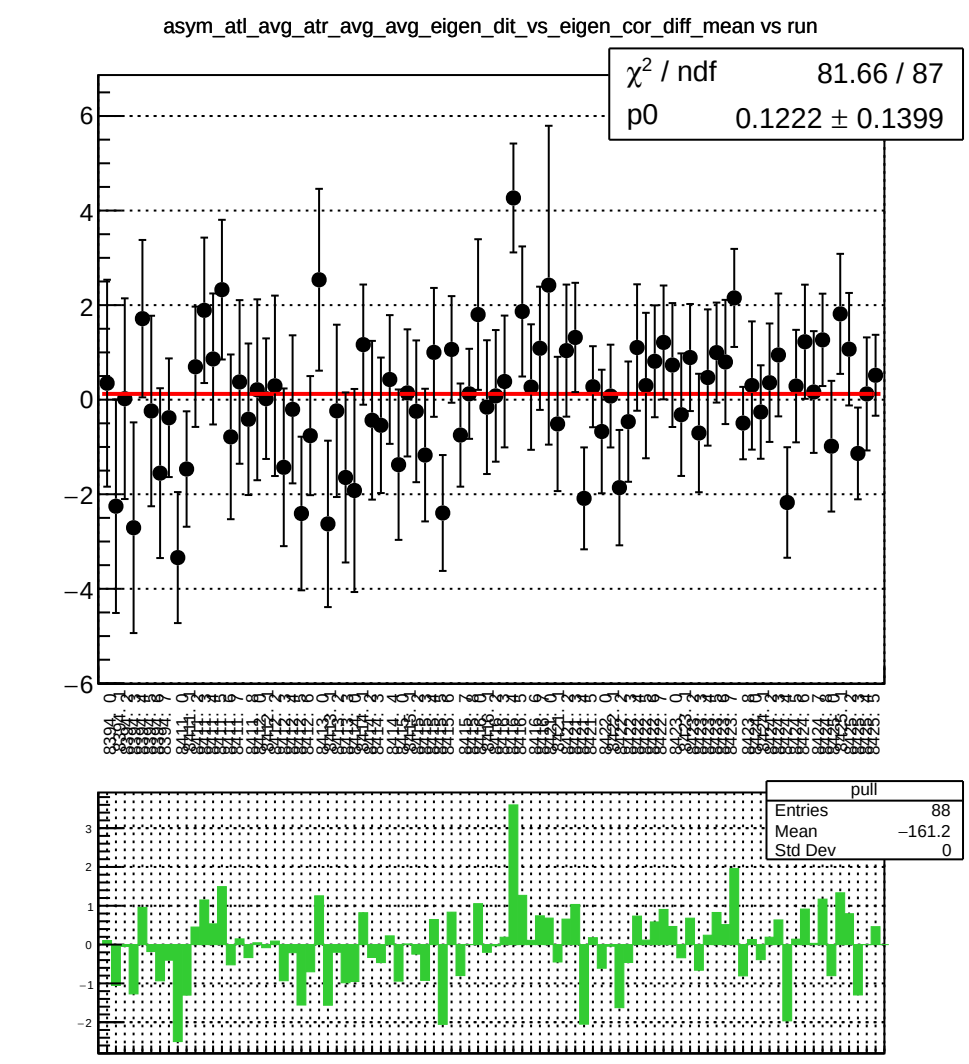

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.757e+04 / 87
p0 126.1 ± 0.09891
300
250
200
150
100

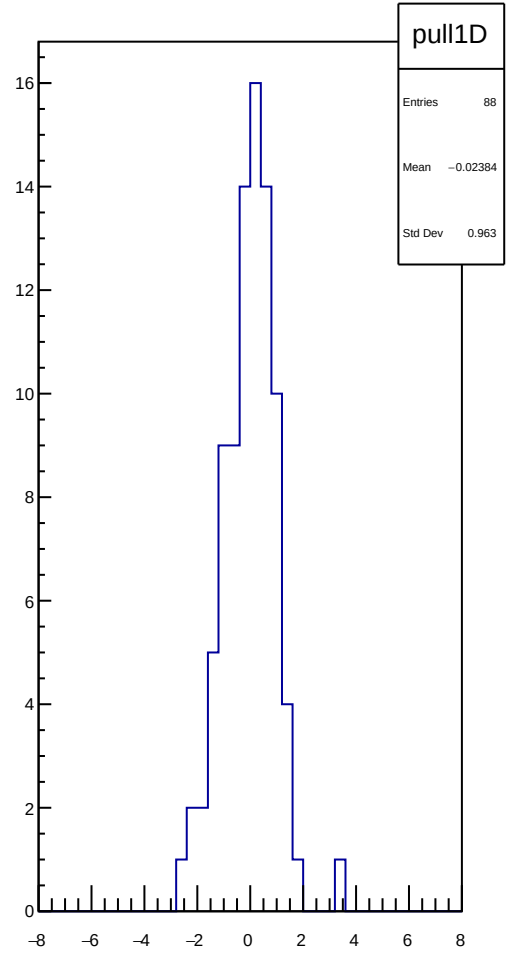

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 77.18 / 87
p0 −1.714e−05 ± 5.807e−06
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean 70.85
Std Dev 24.54
pull1D
Entries 88
Mean 0.1126
Std Dev 0.9297

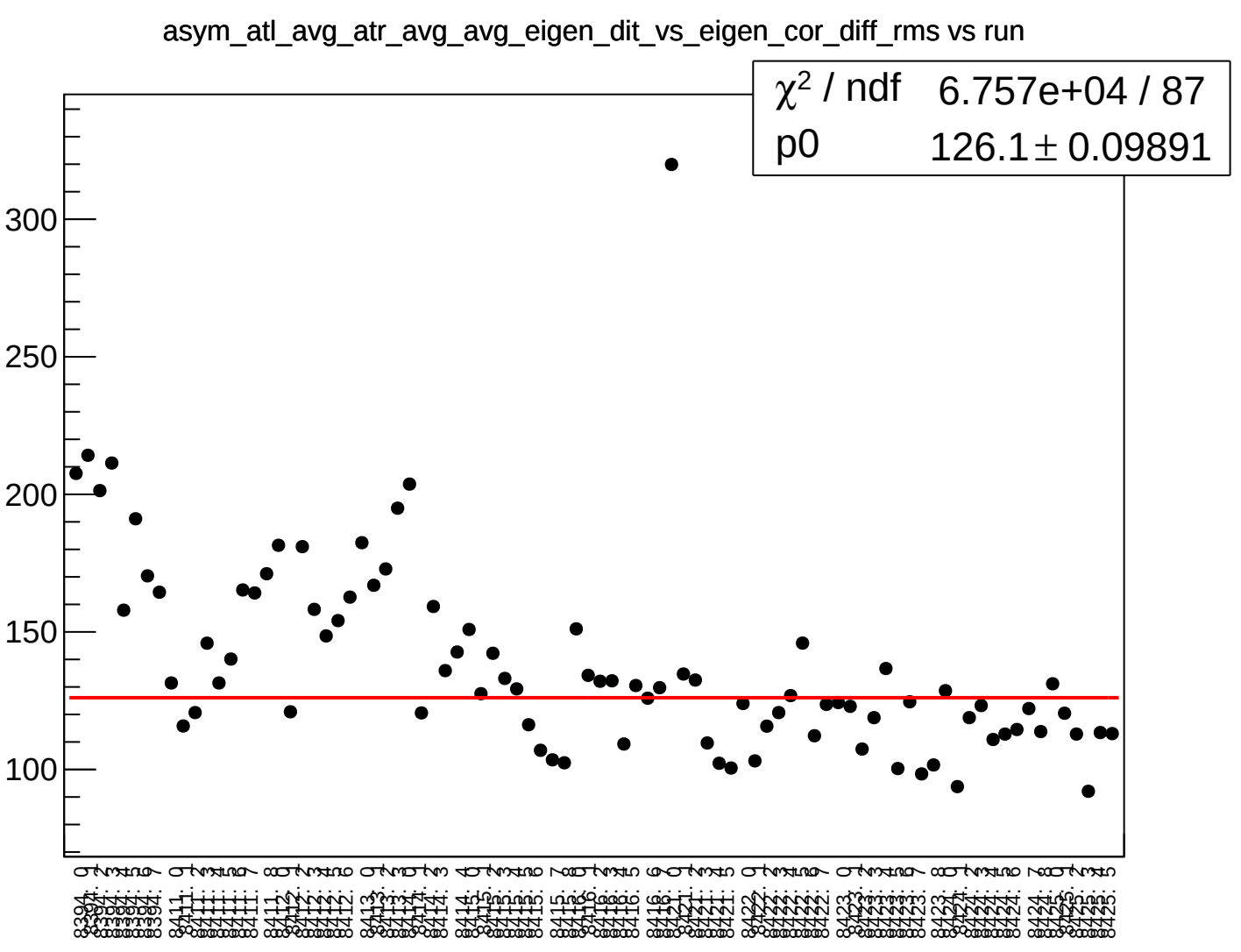

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.717e+05 / 87
p0 0.004348 ± 4.107e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

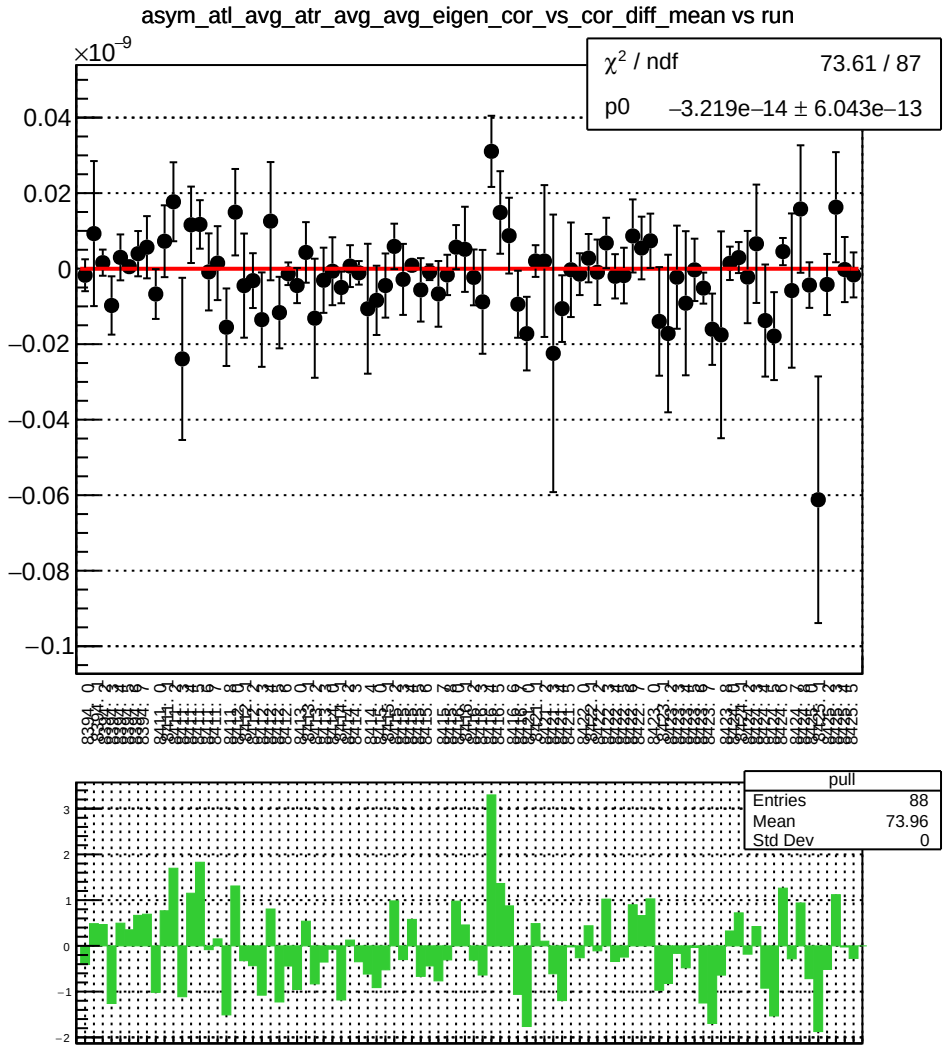

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.66 / 87
p0 0.1222 ± 0.1399
pull
Entries 88
Mean −161.2
Std Dev 0
pull1D
Entries 88
Mean −0.02384
Std Dev 0.963

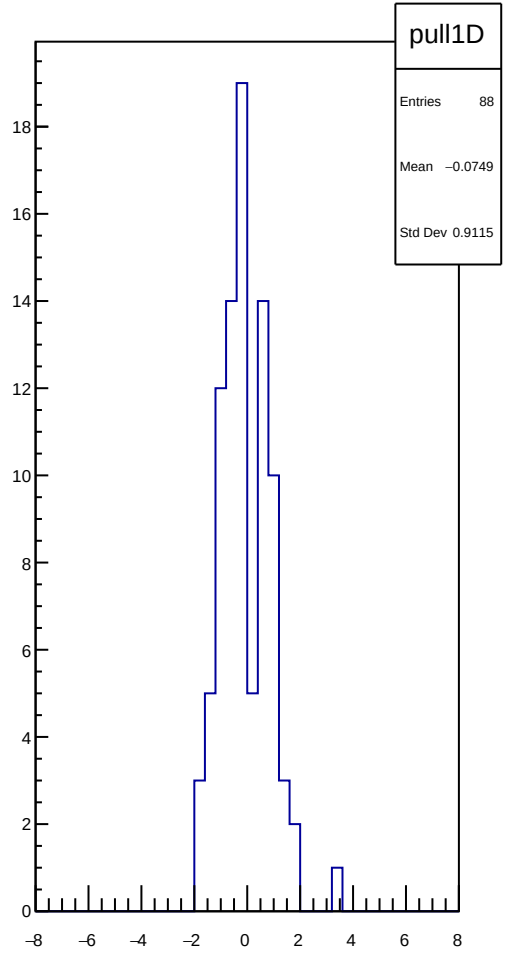

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.757e+04 / 87
p0 126.1 ± 0.09891
300
250
200
150
100

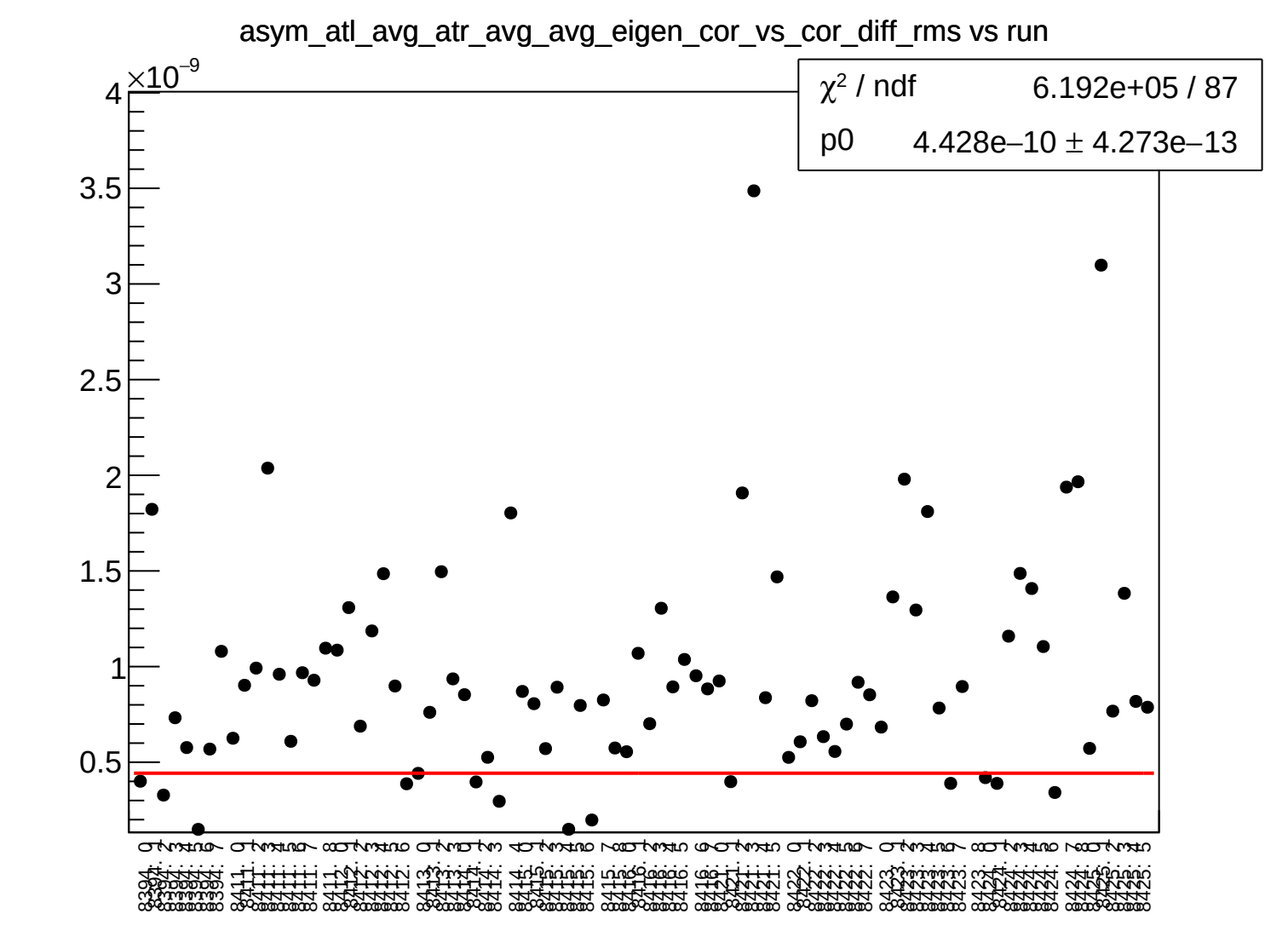

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.66 / 87
p0 0.1222 ± 0.1399
pull
Entries 88
Mean −161.2
Std Dev 0

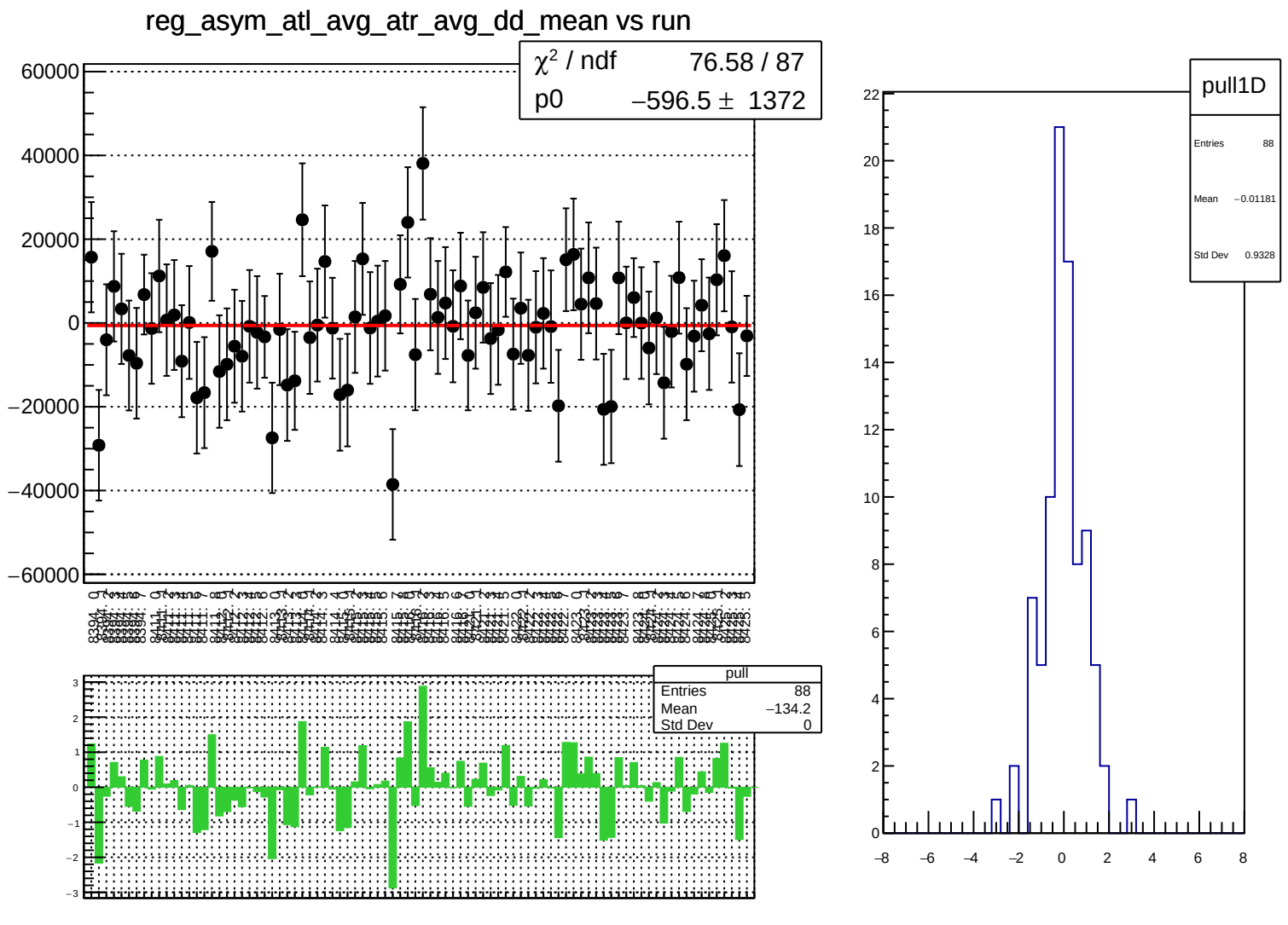

pull1D
Entries 88
Mean −0.02384
Std Dev 0.963

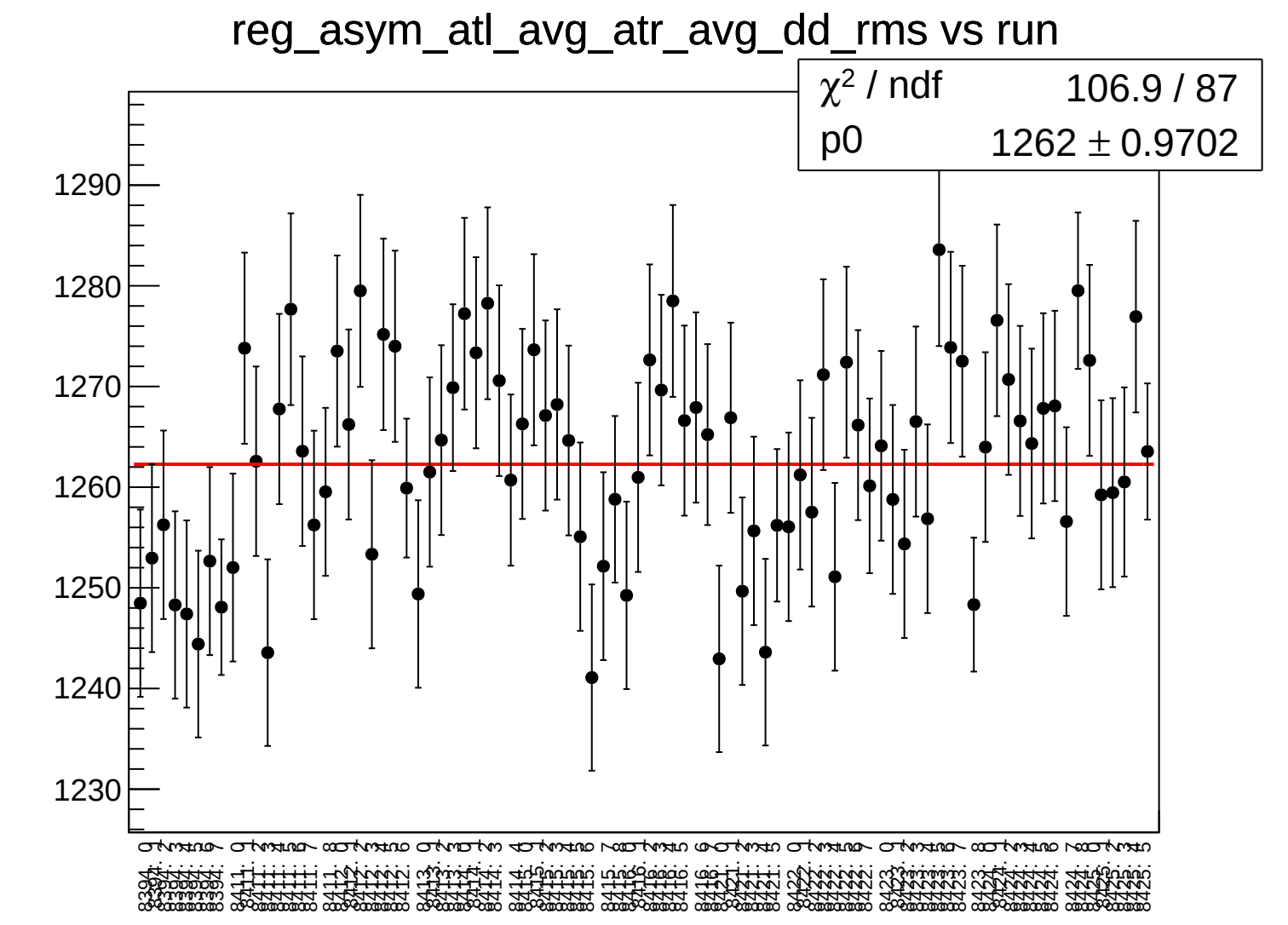

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.757e+04 / 87
p0 126.1 ± 0.09891
300
250
200
150
100

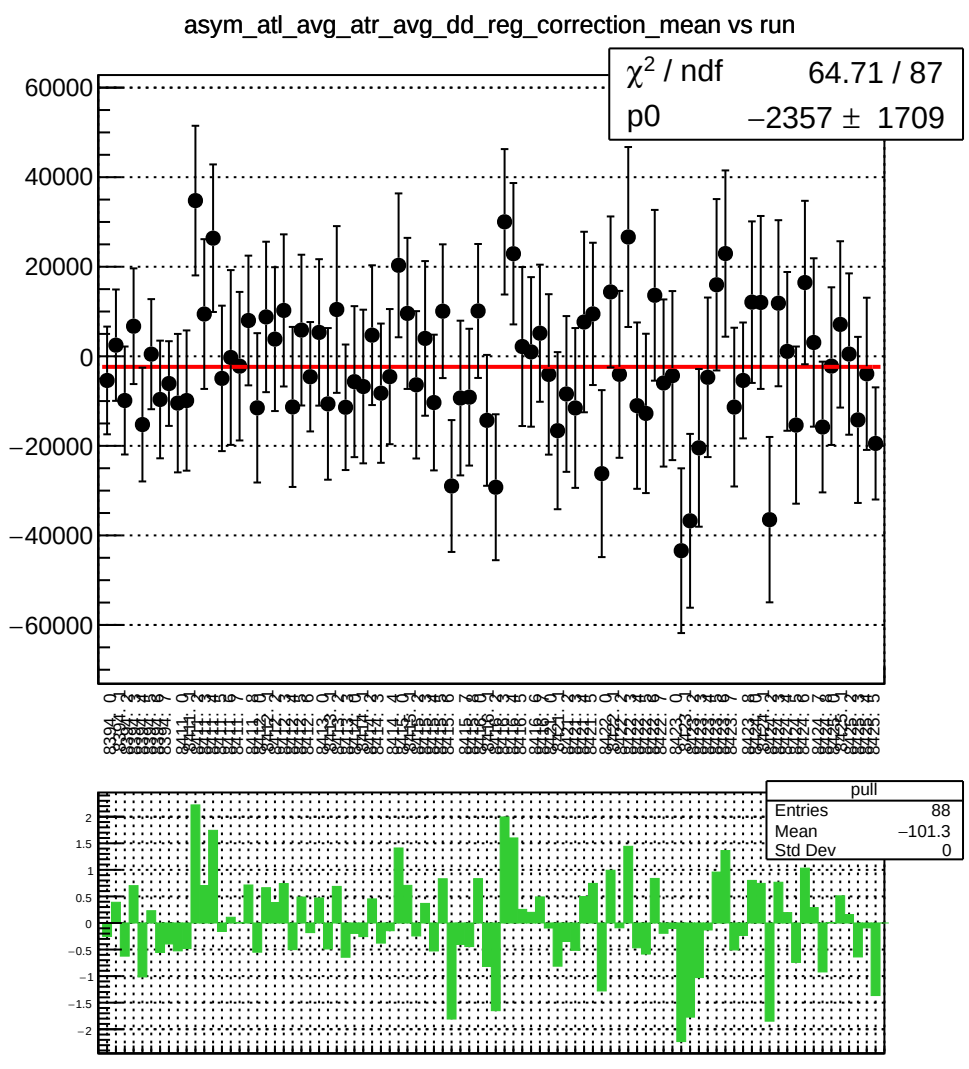

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 73.61 / 87
p0 −3.219e−14 ± 6.043e−13
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 88
Mean 73.96
Std Dev 0
3
2
1
0
−1
−2

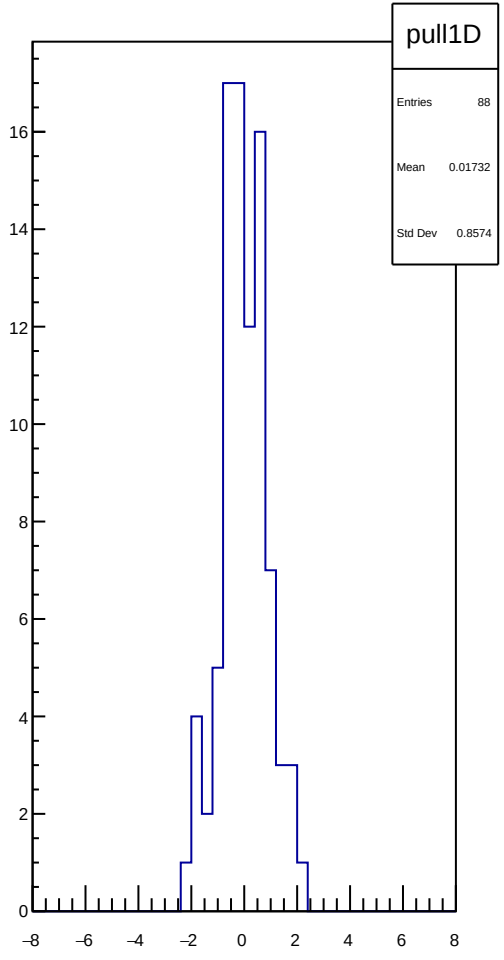

pull1D
Entries 88
Mean −0.0749
Std Dev 0.9115
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

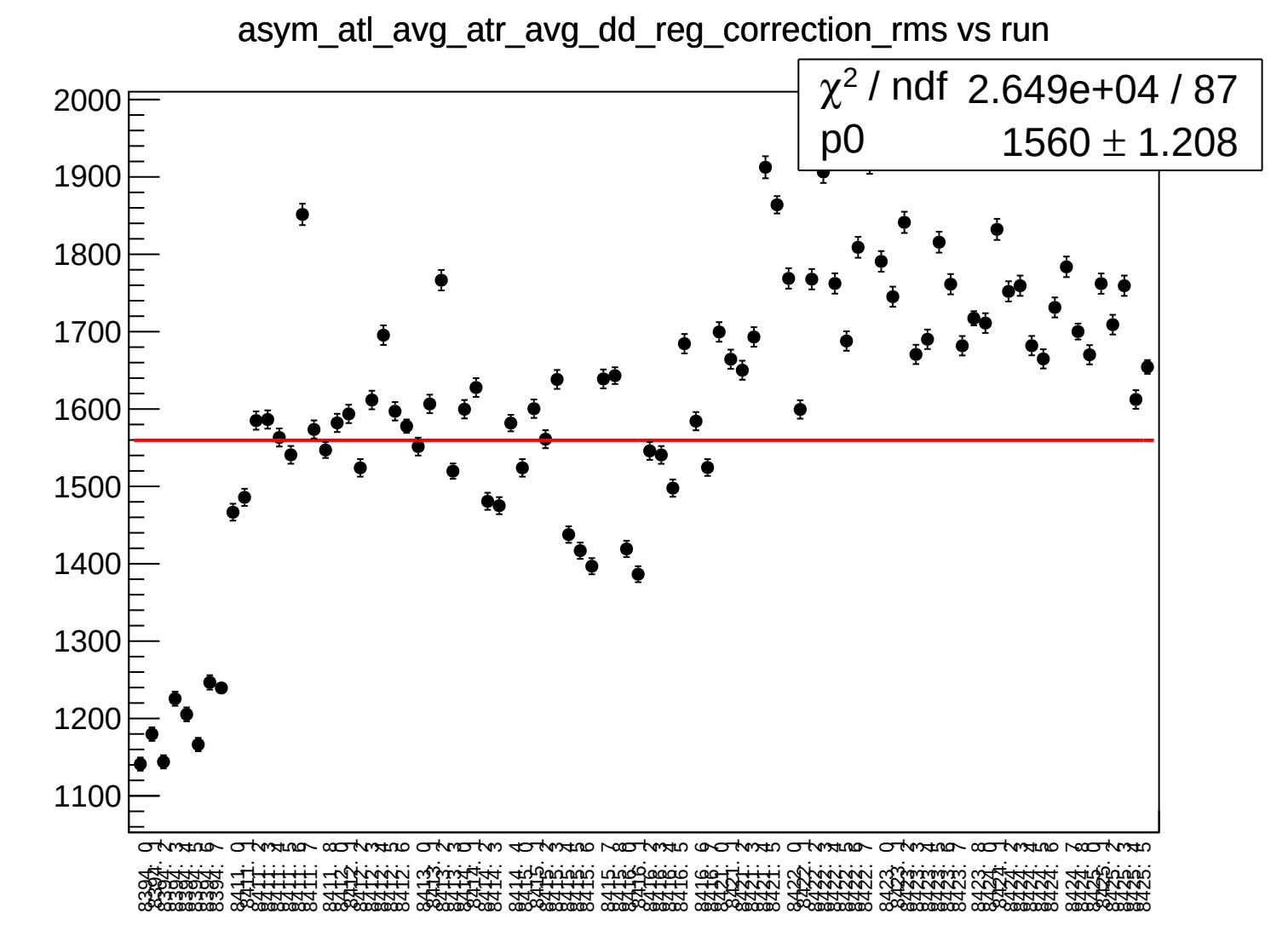

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.192e+05 / 87
p0 4.428e−10 ± 4.273e−13
4
3.5
3
2.5
2
1.5
1
0.5

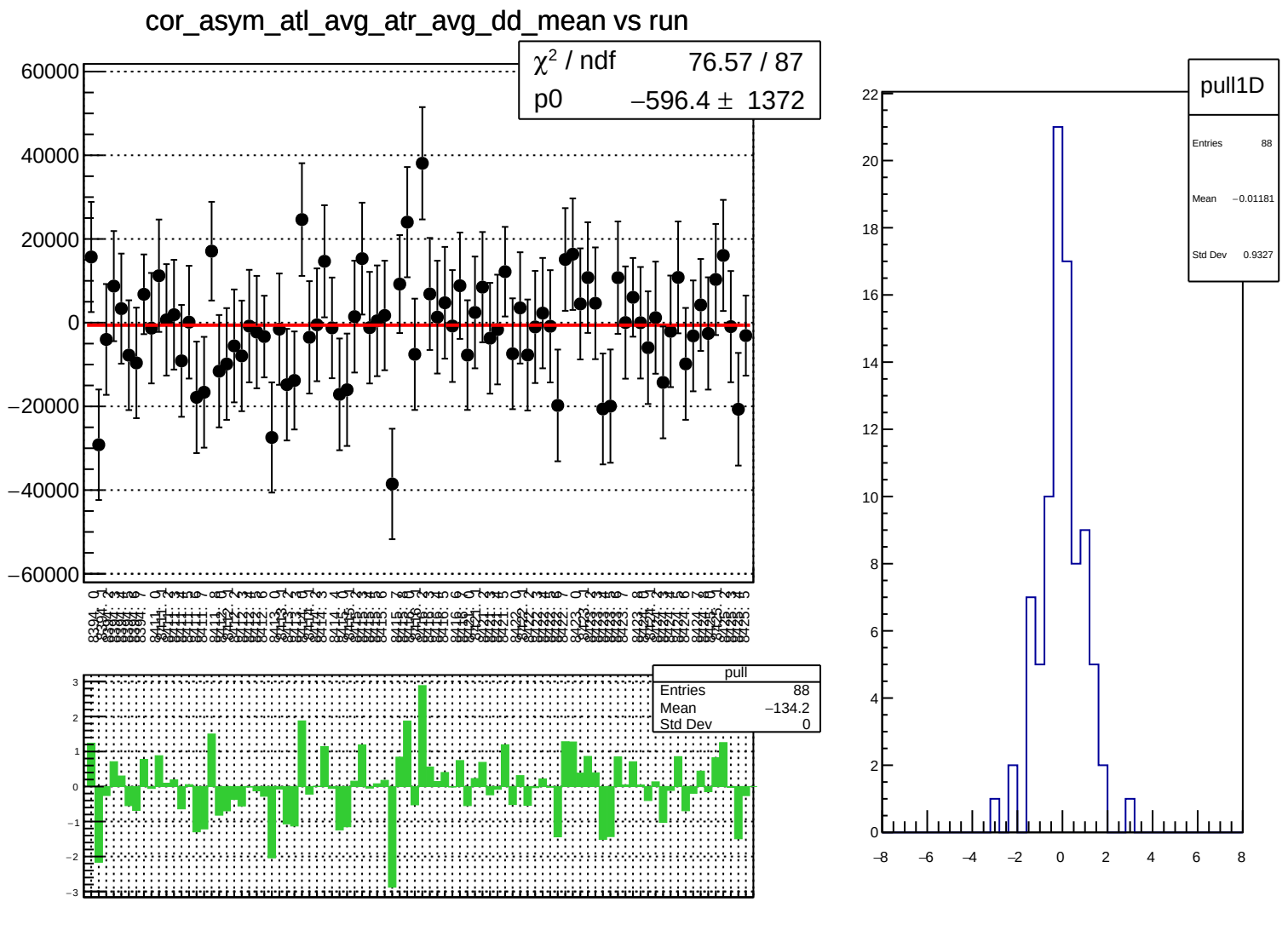

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 76.58 / 87
p0 −596.5 ± 1372
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −134.2
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.01181
Std Dev 0.9328
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

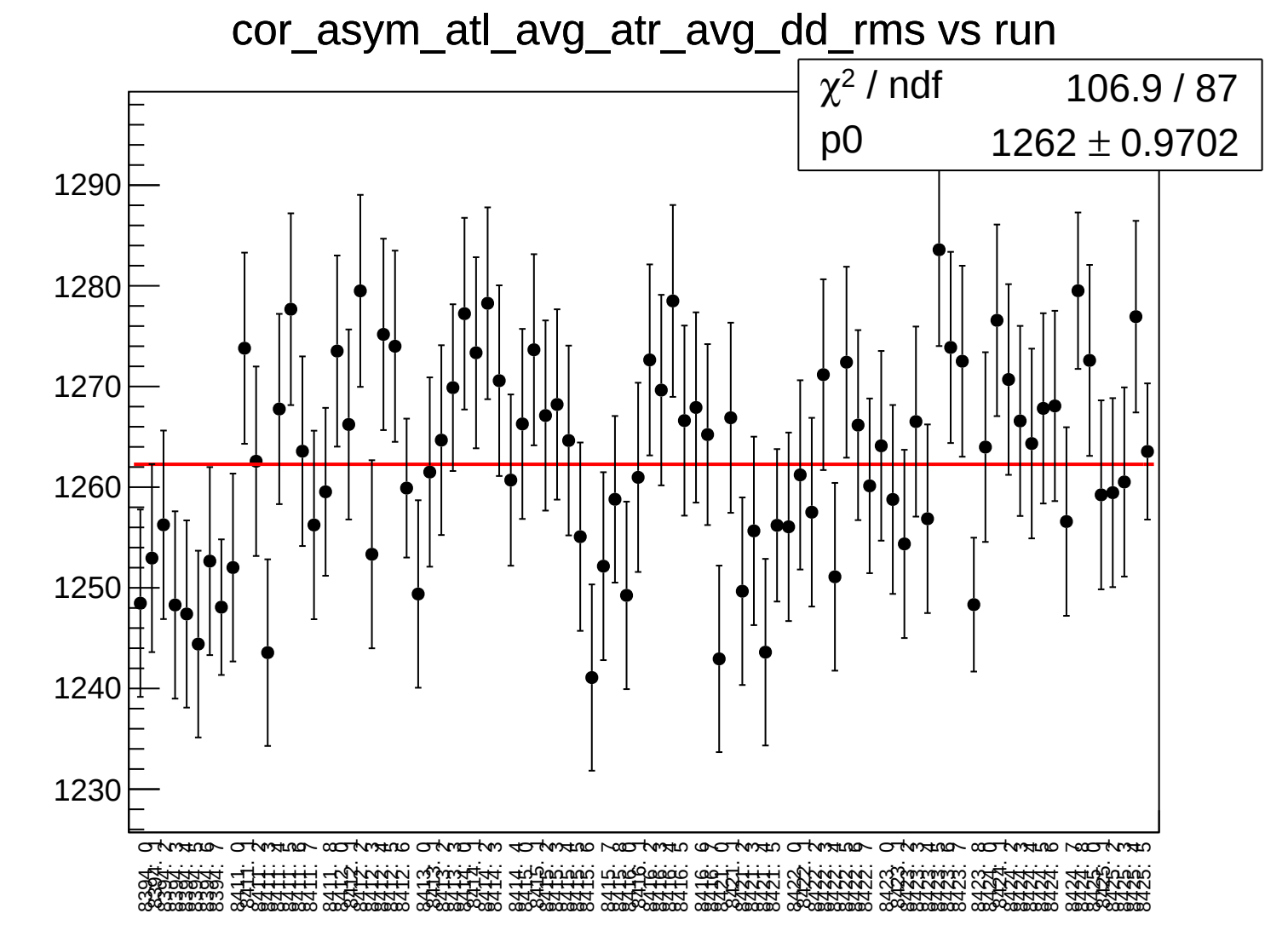

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 106.9 / 87
p0 1262 ± 0.9702
1290
1280
1270
1260
1250
1240
1230

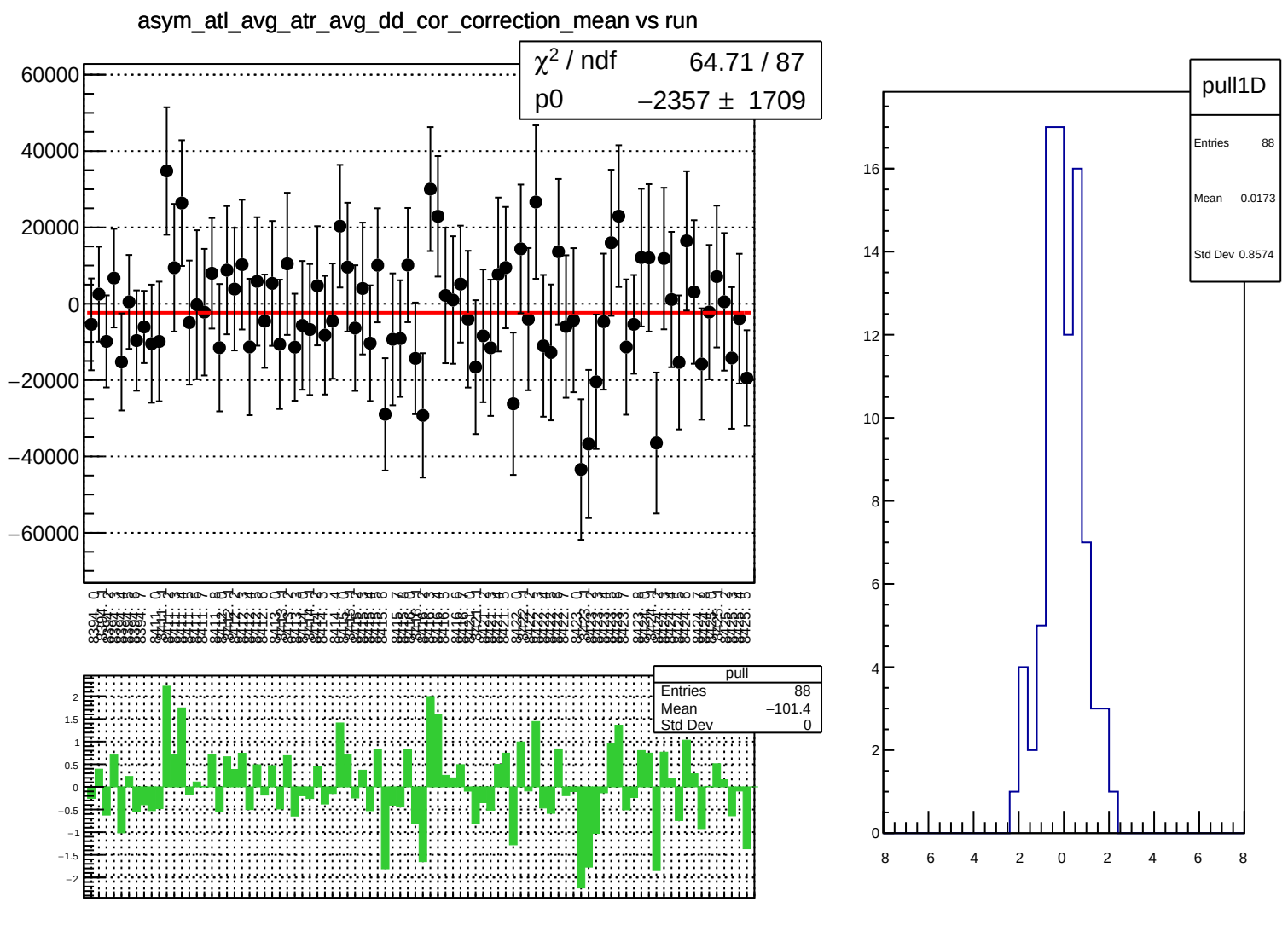

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 64.71 / 87
p0 −2357 ± 1709
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −101.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

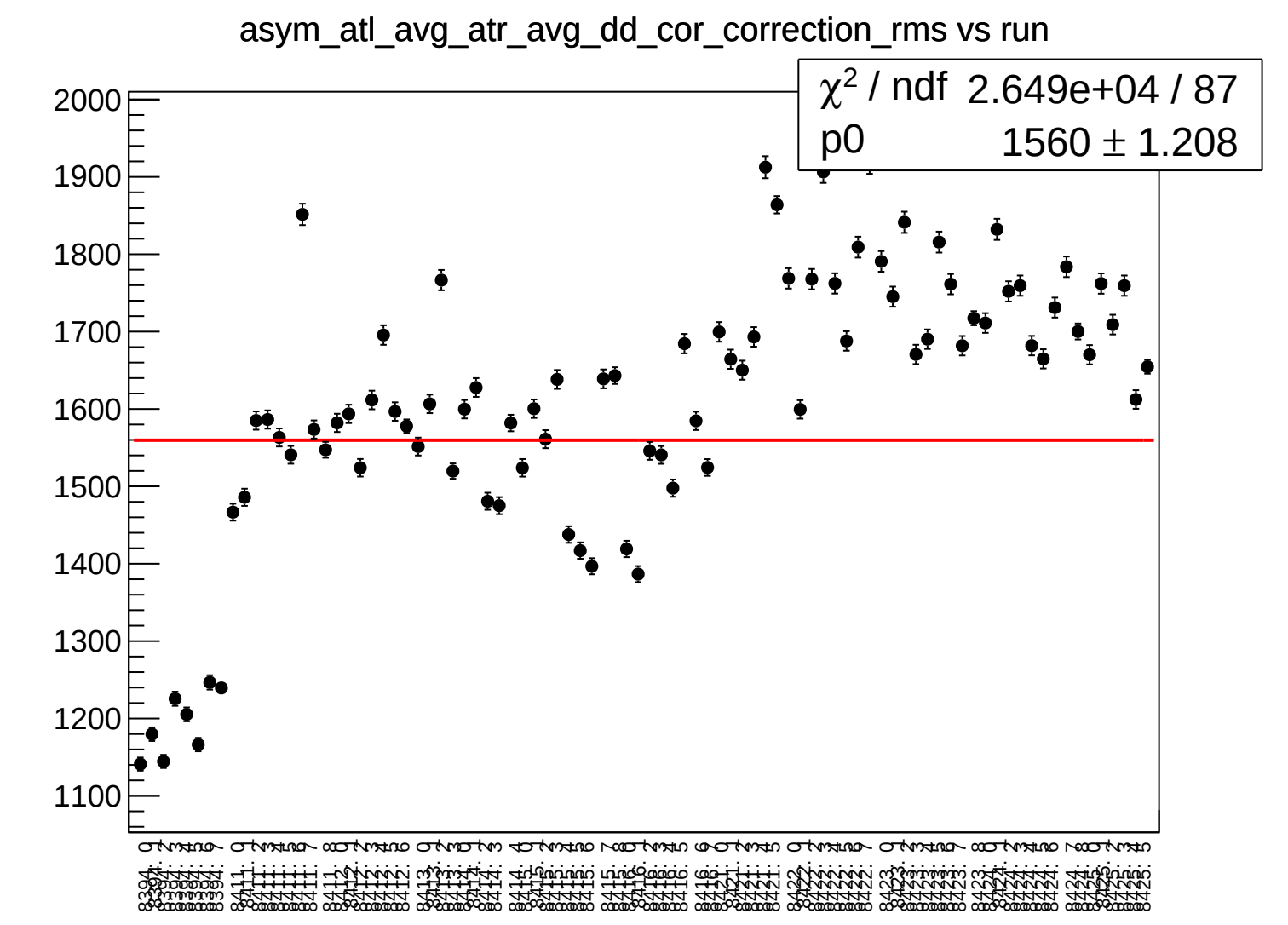

pull1D
Entries 88
Mean 0.01732
Std Dev 0.8574
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

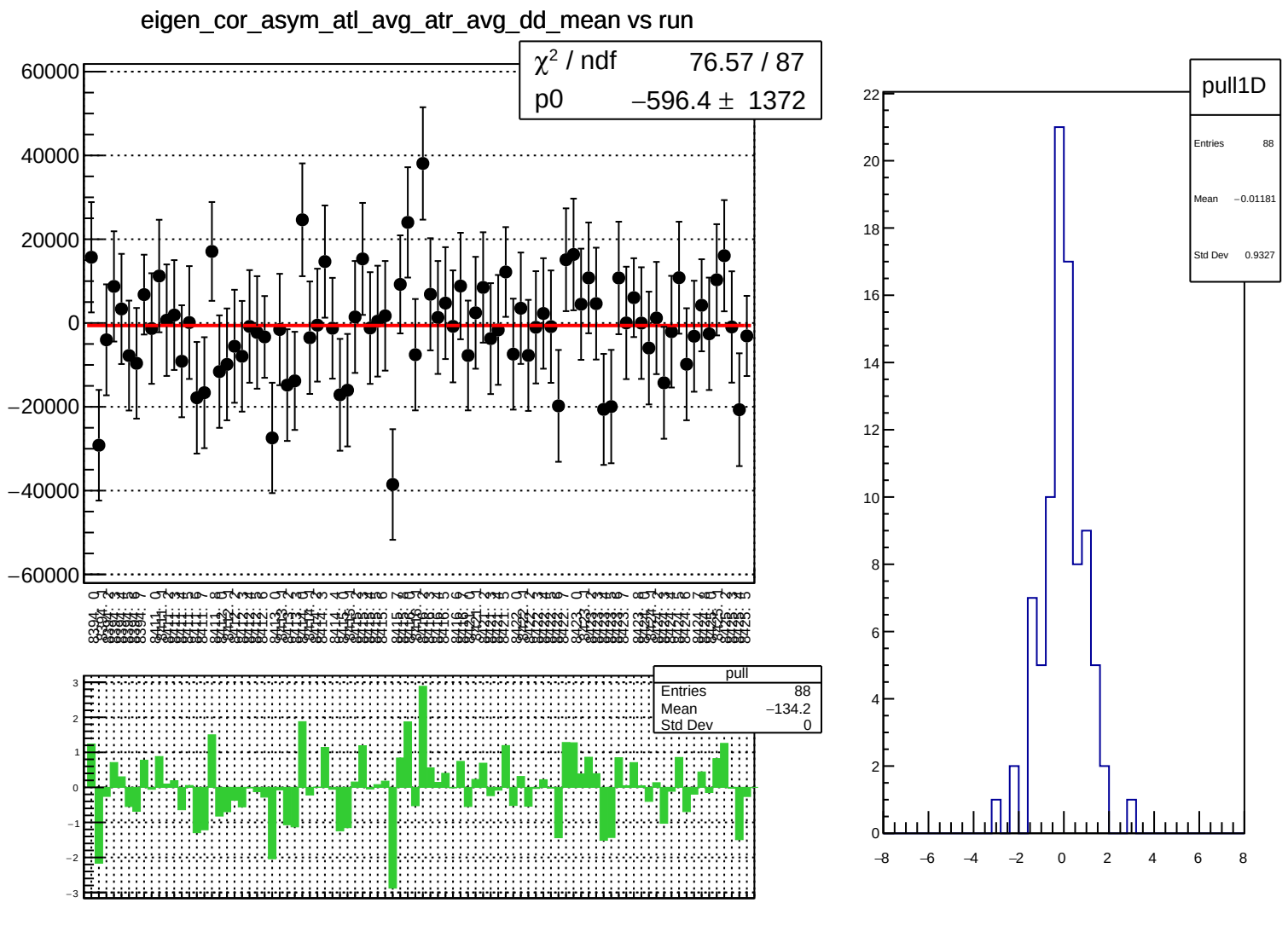

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 2.649e+04 / 87
p0 1560 ± 1.208
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100

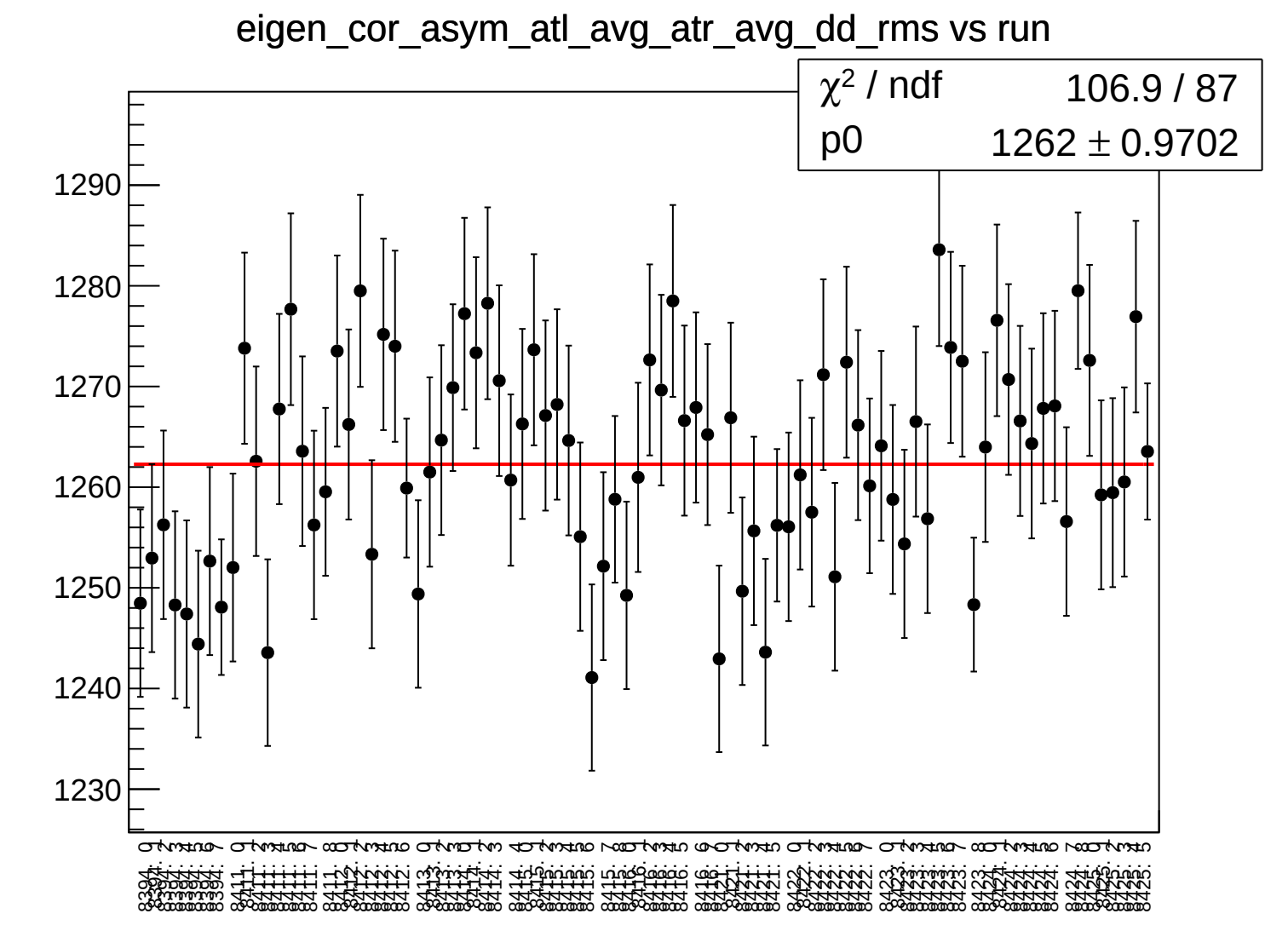

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 76.57 / 87
p0 −596.4 ± 1372
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −134.2
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.01181
Std Dev 0.9327
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

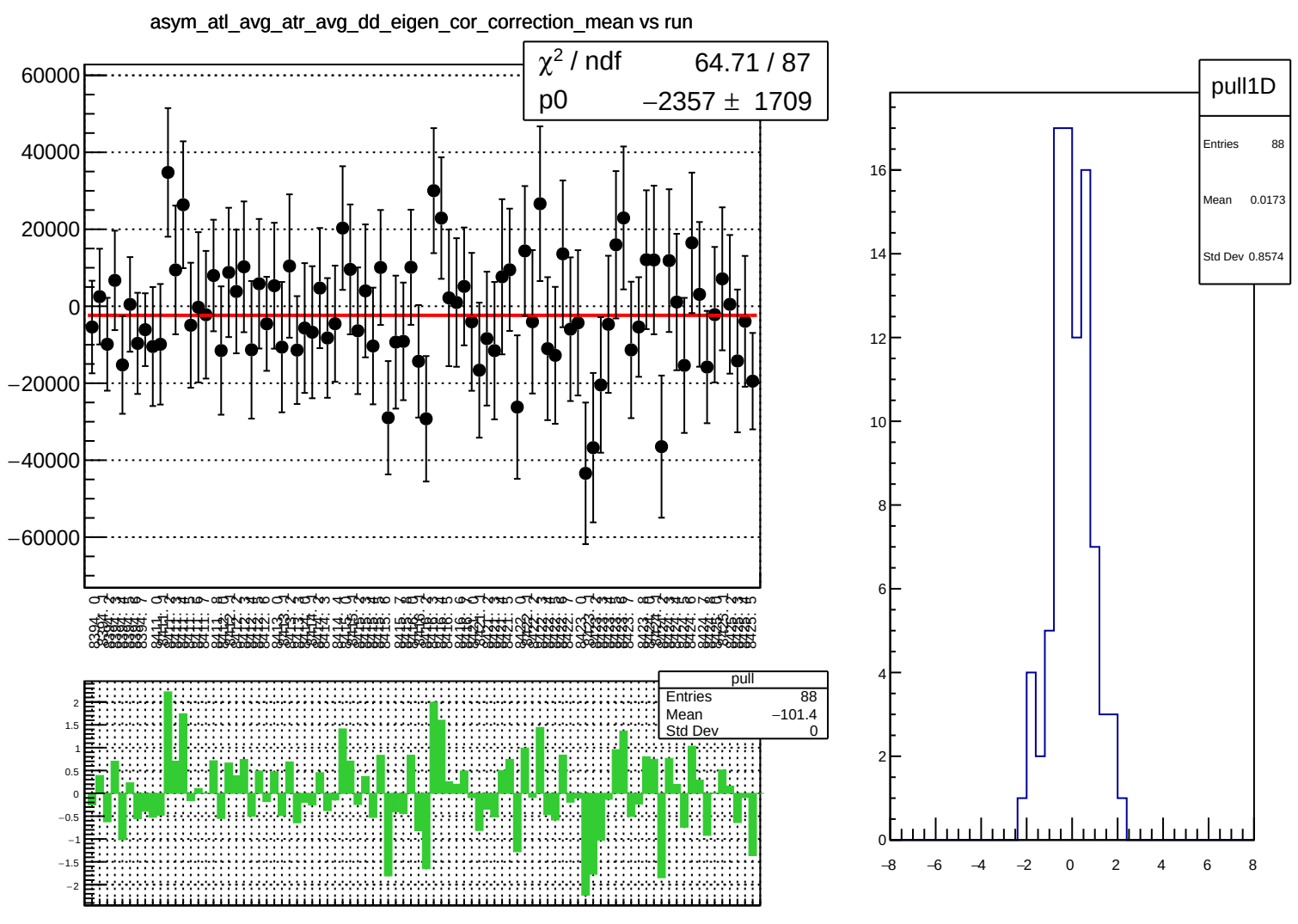

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 106.9 / 87
p0 1262 ± 0.9702
1290
1280
1270
1260
1250
1240
1230

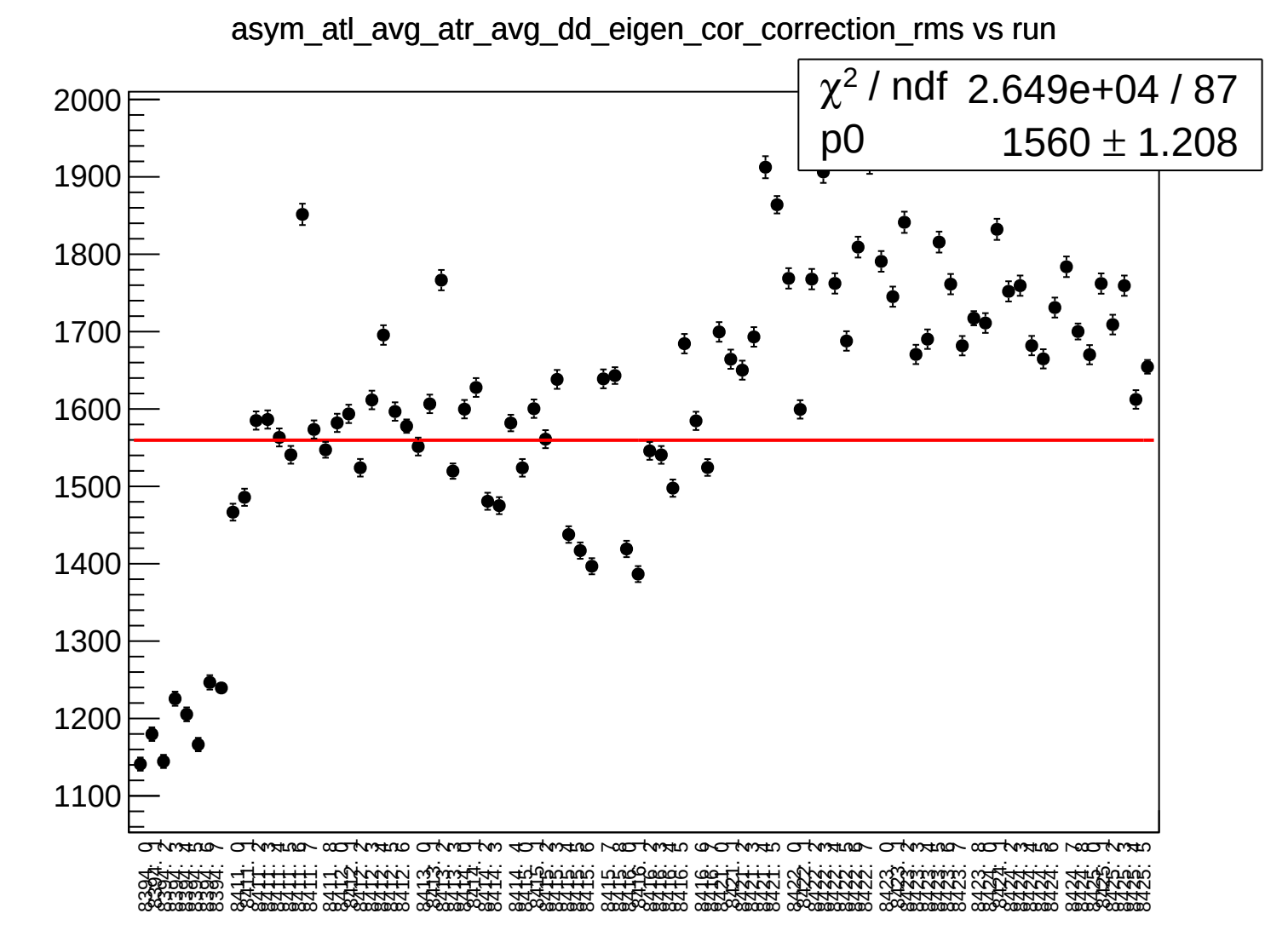

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 64.71 / 87
p0 −2357 ± 1709
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −101.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean 0.0173
Std Dev 0.8574
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

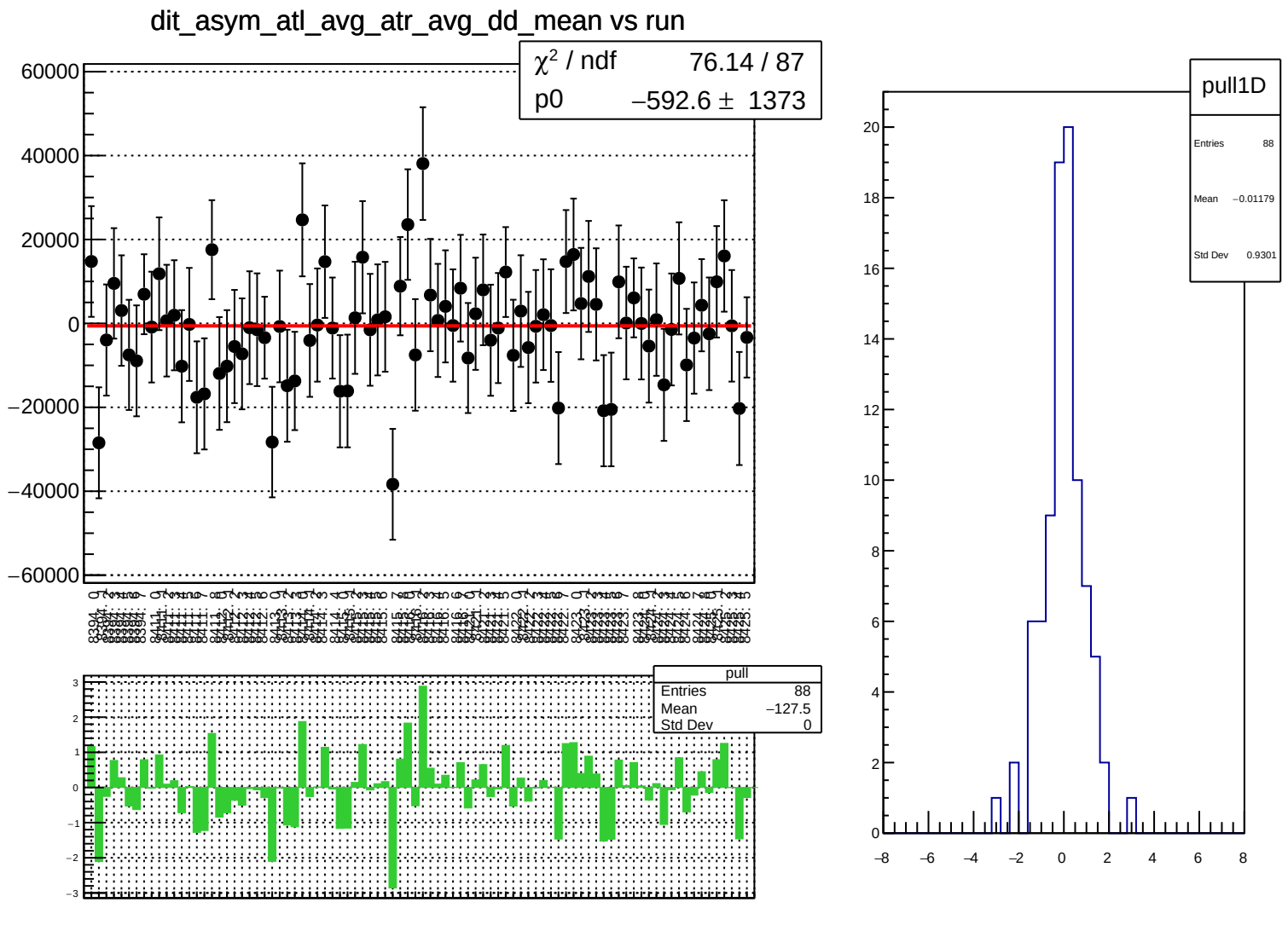

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 2.649e+04 / 87
p0 1560 ± 1.208
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100

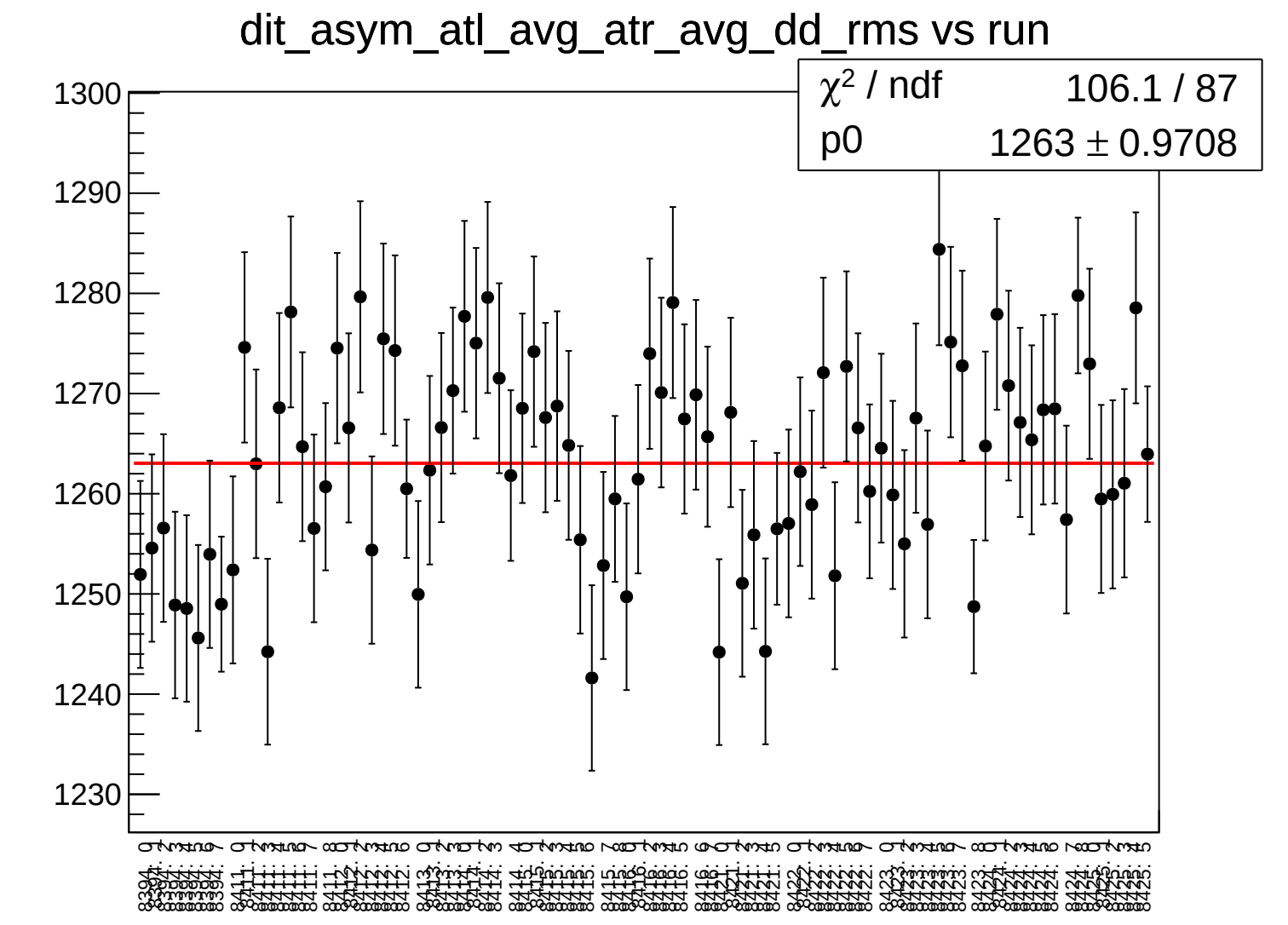

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 76.57 / 87
p0 −596.4 ± 1372
pull
Entries 88
Mean −134.2
Std Dev 0
pull1D
Entries 88
Mean −0.01181
Std Dev 0.9327

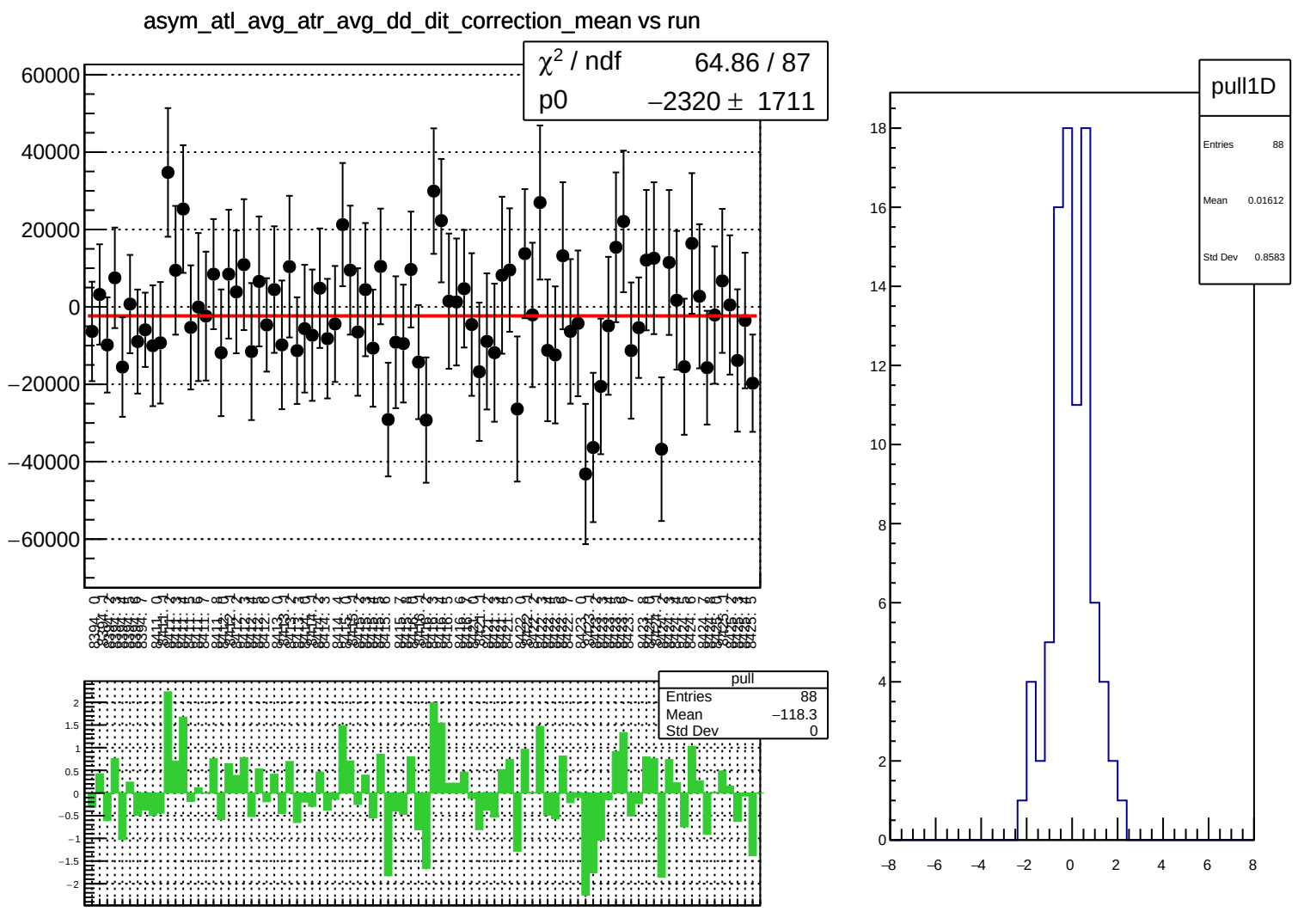

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 106.9 / 87
p0 1262 ± 0.9702
1290
1280
1270
1260
1250
1240
1230

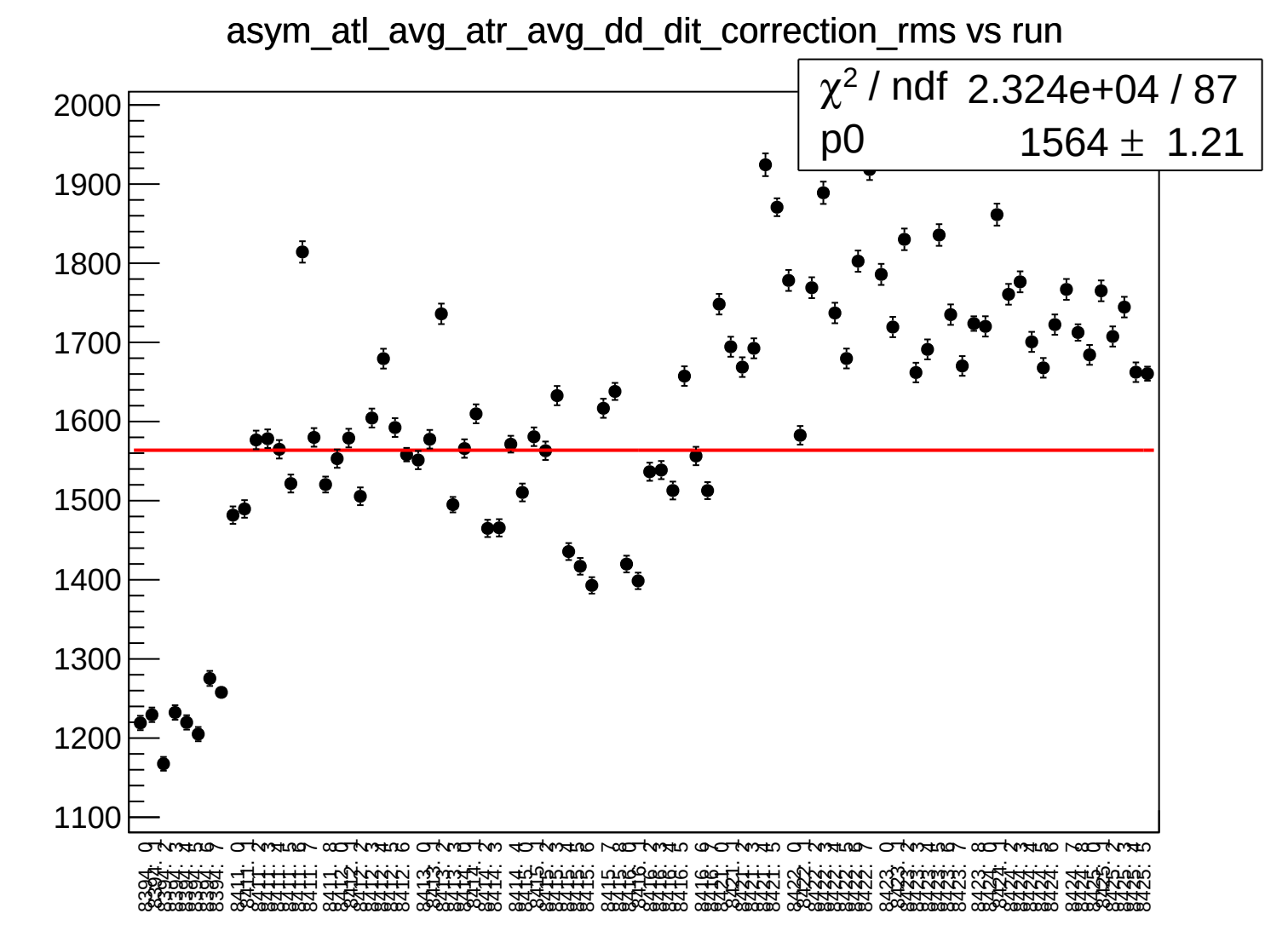

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 64.71 / 87
p0 −2357 ± 1709
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −101.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean 0.0173
Std Dev 0.8574
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

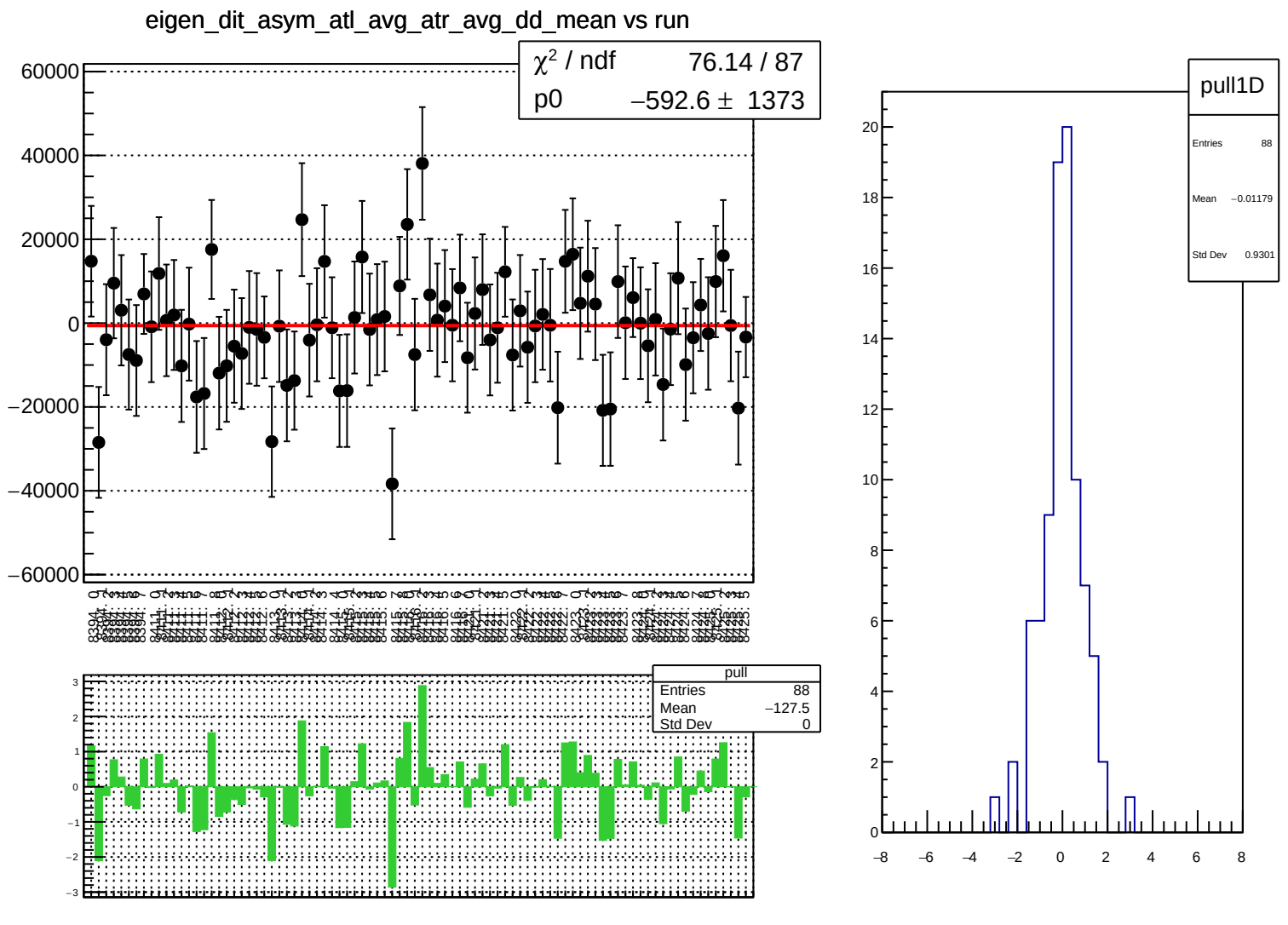

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.649e+04 / 87
p0 1560 ± 1.208
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100

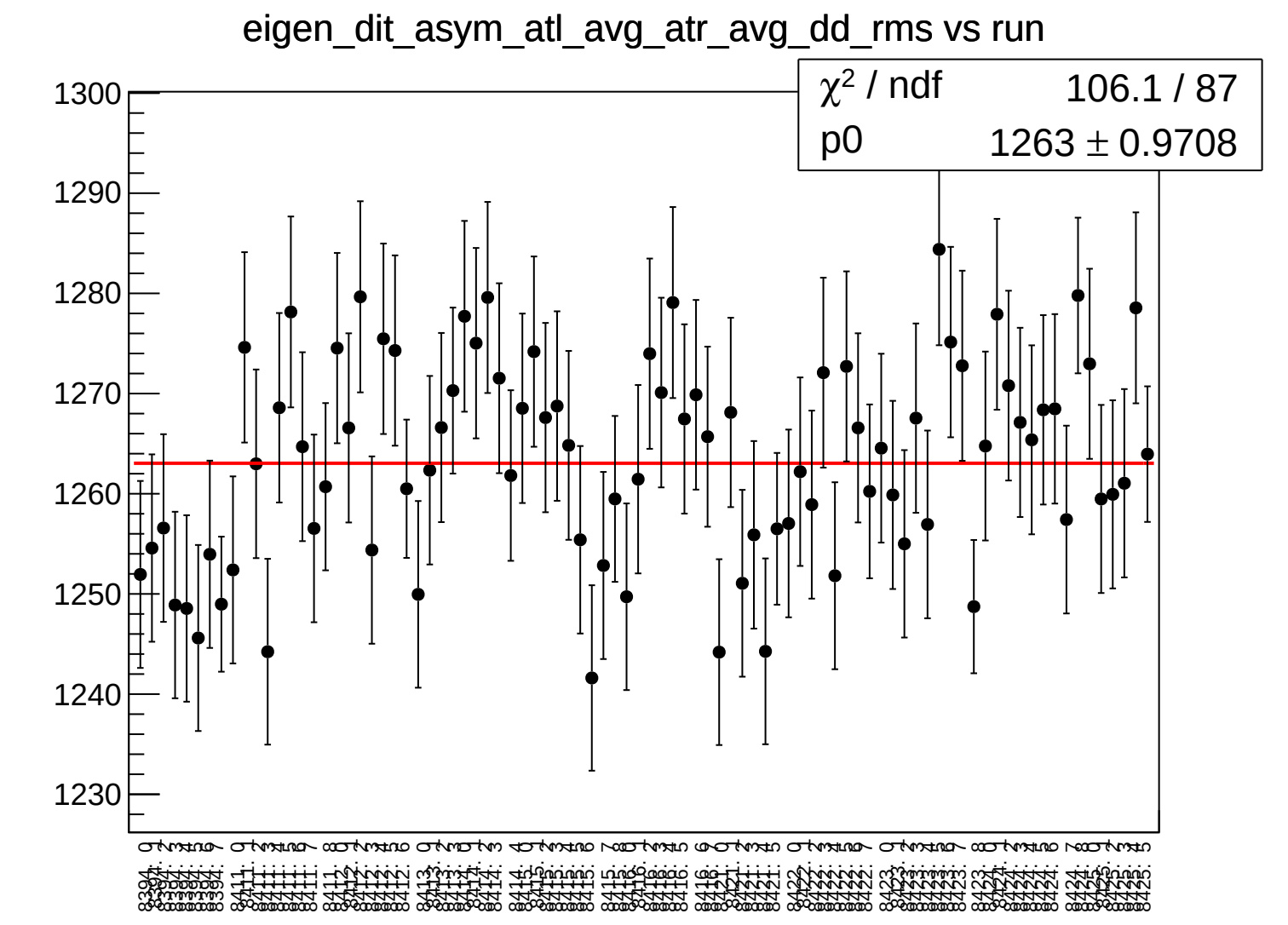

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 76.14 / 87
p0 −592.6 ± 1373
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −127.5
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.01179
Std Dev 0.9301
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

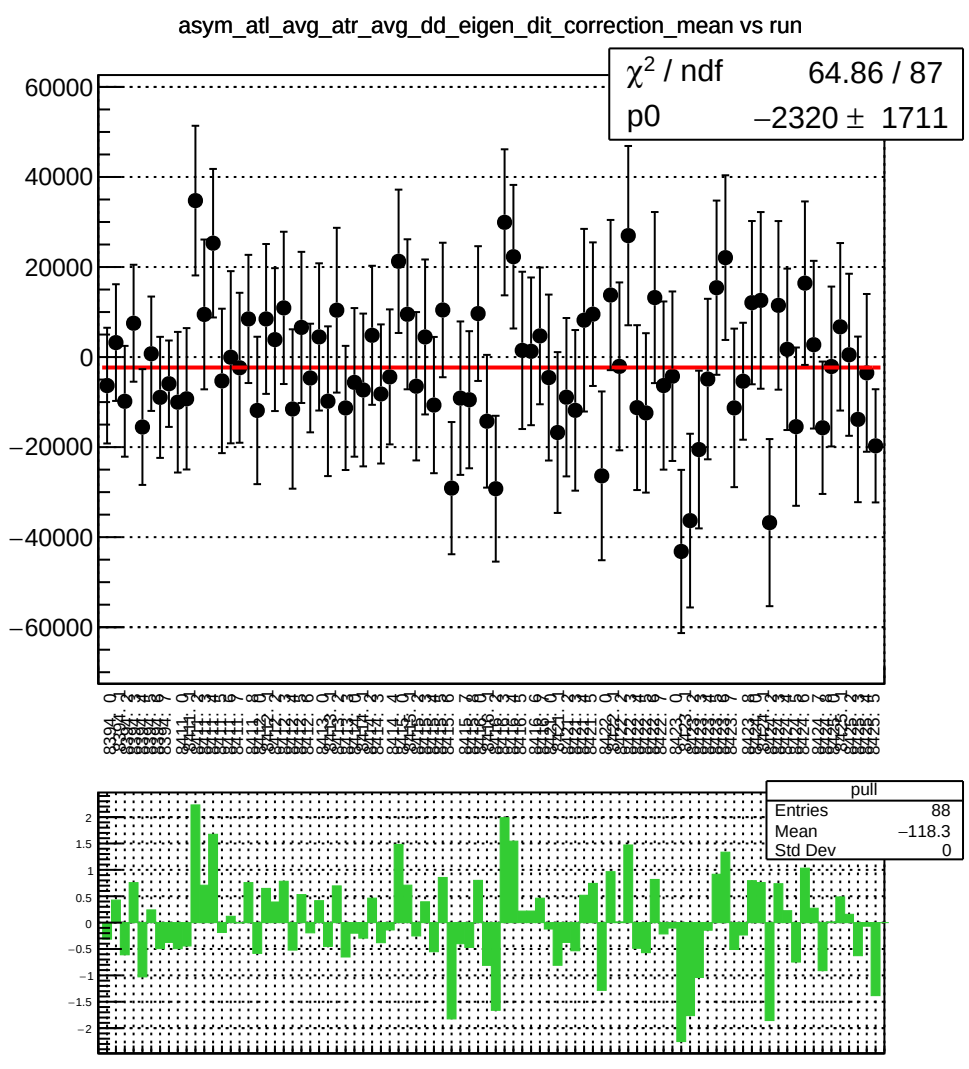

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 106.1 / 87
p0 1263 ± 0.9708
1300
1290
1280
1270
1260
1250
1240
1230

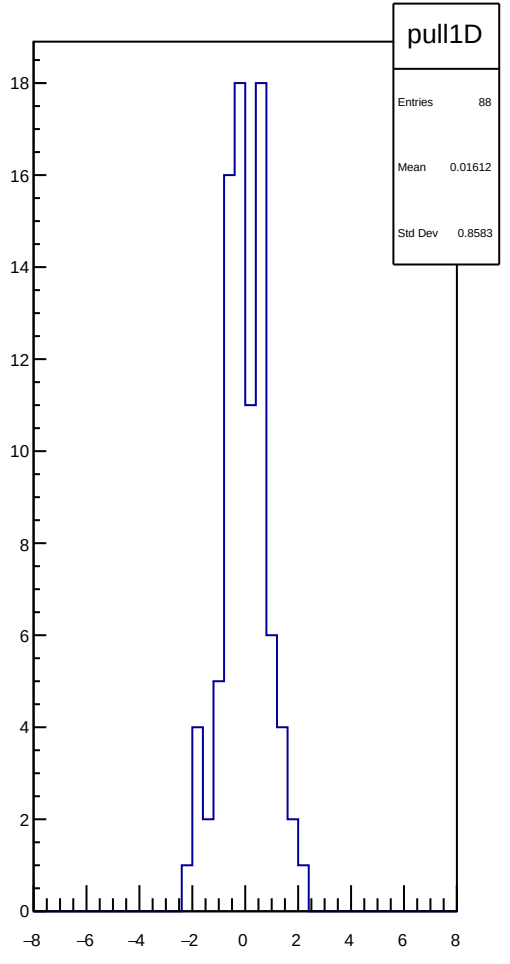

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 64.86 / 87
p0 −2320 ± 1711
pull
Entries 88
Mean −118.3
Std Dev 0
pull1D
Entries 88
Mean 0.01612
Std Dev 0.8583

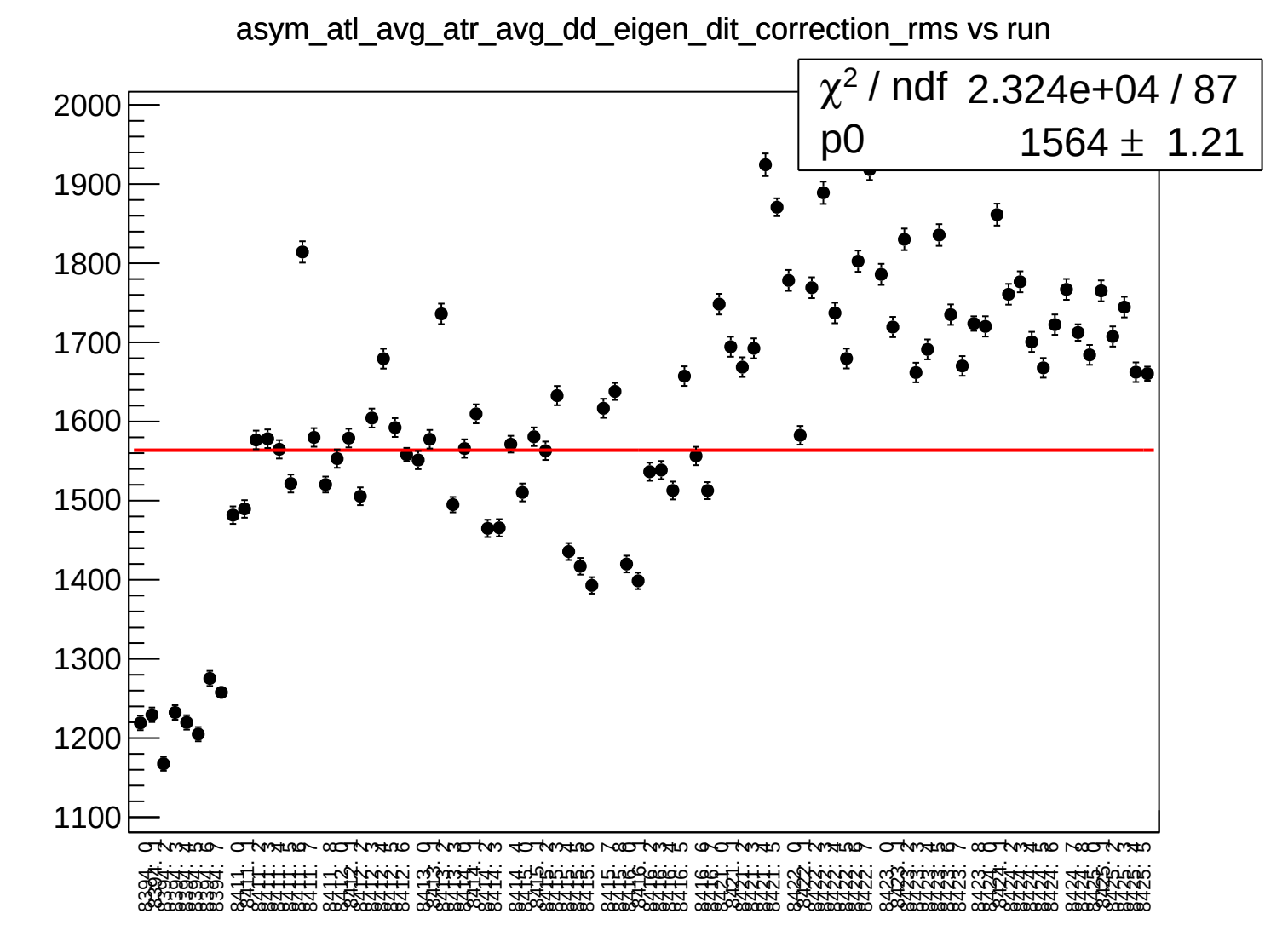

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 2.324e+04 / 87
p0 1564 ± 1.21
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100

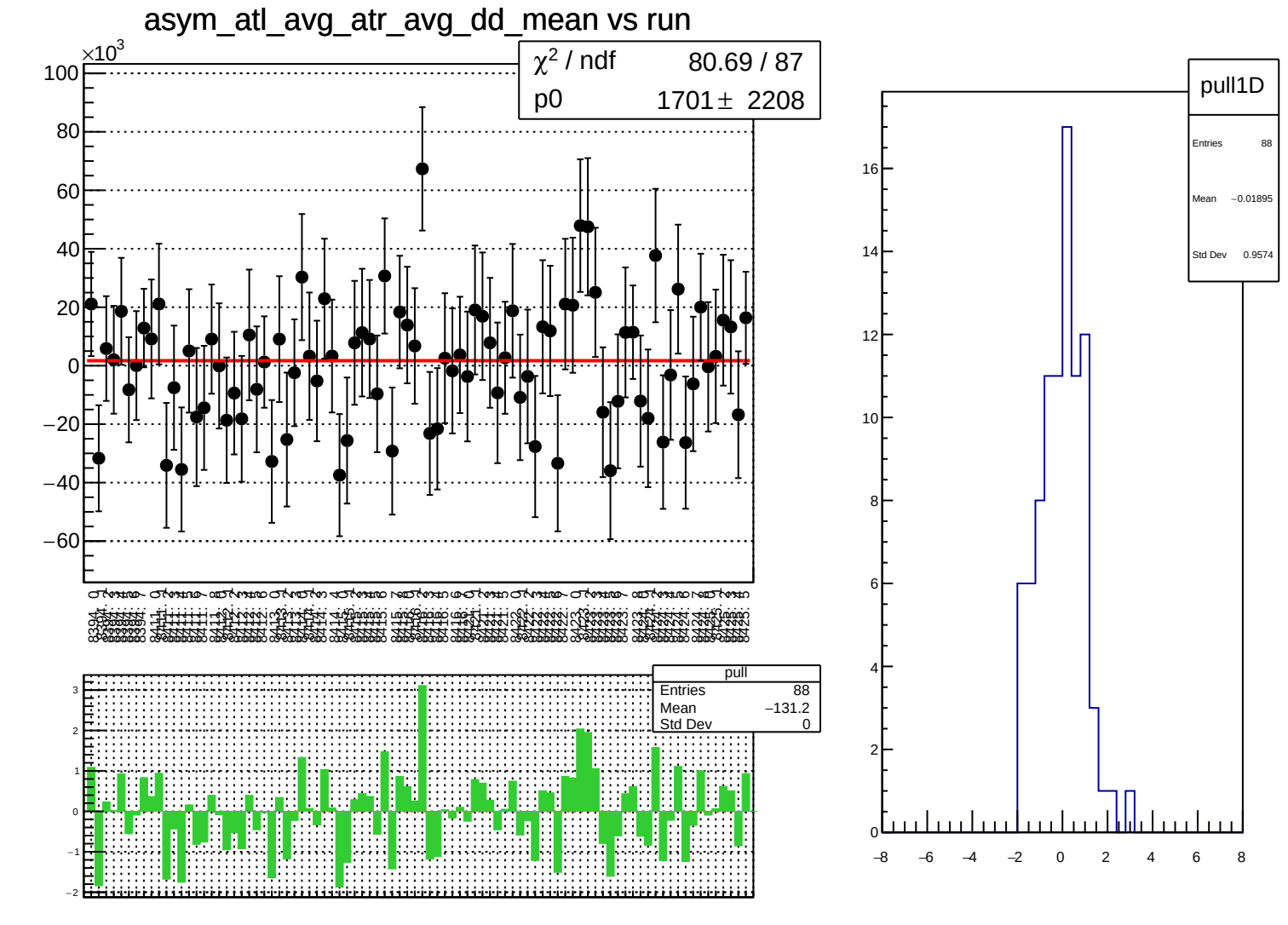

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 76.14 / 87
p0 −592.6 ± 1373
pull
Entries 88
Mean −127.5
Std Dev 0
pull1D
Entries 88
Mean −0.01179
Std Dev 0.9301

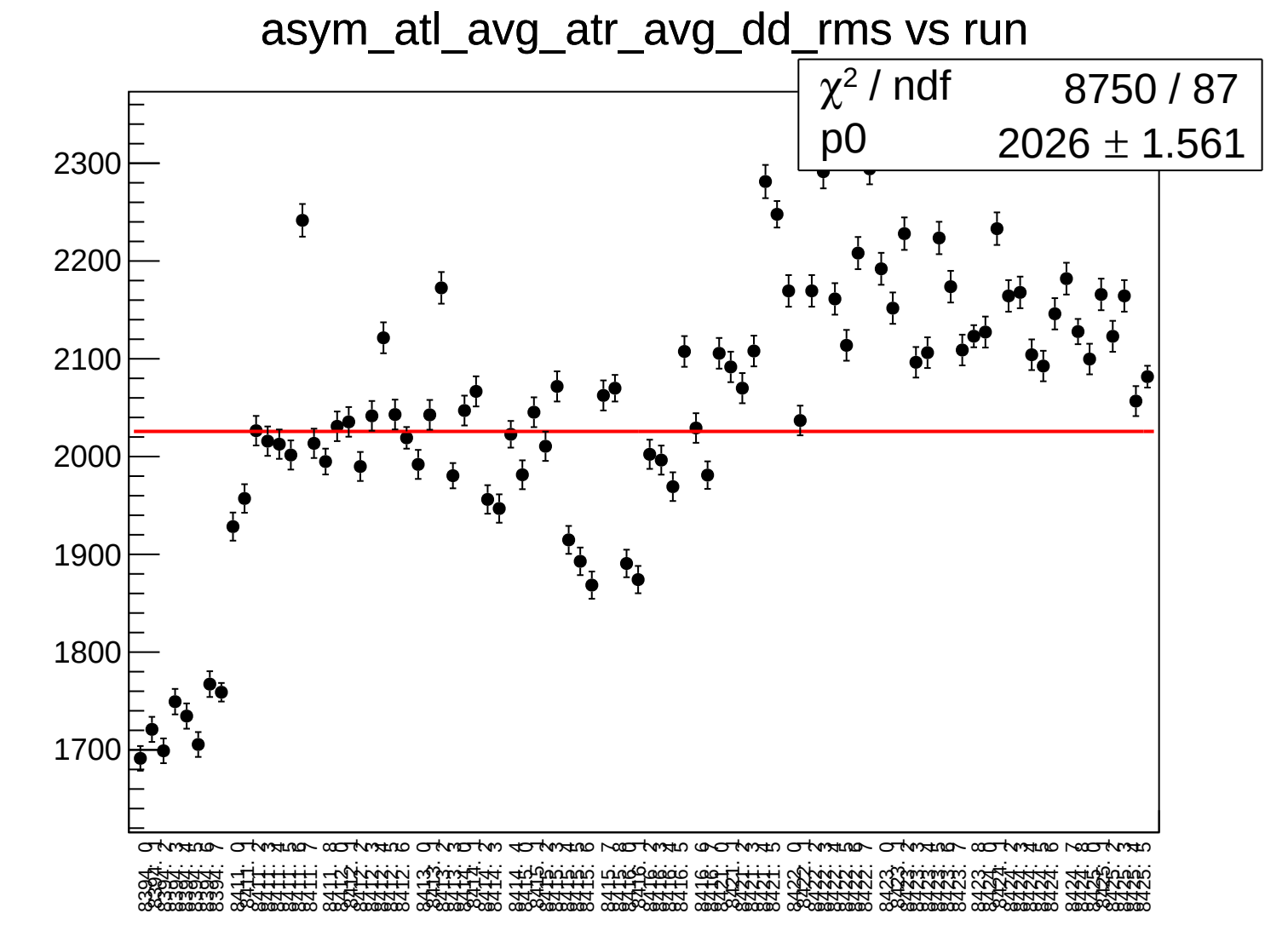

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 106.1 / 87
p0 1263 ± 0.9708
1300
1290
1280
1270
1260
1250
1240
1230

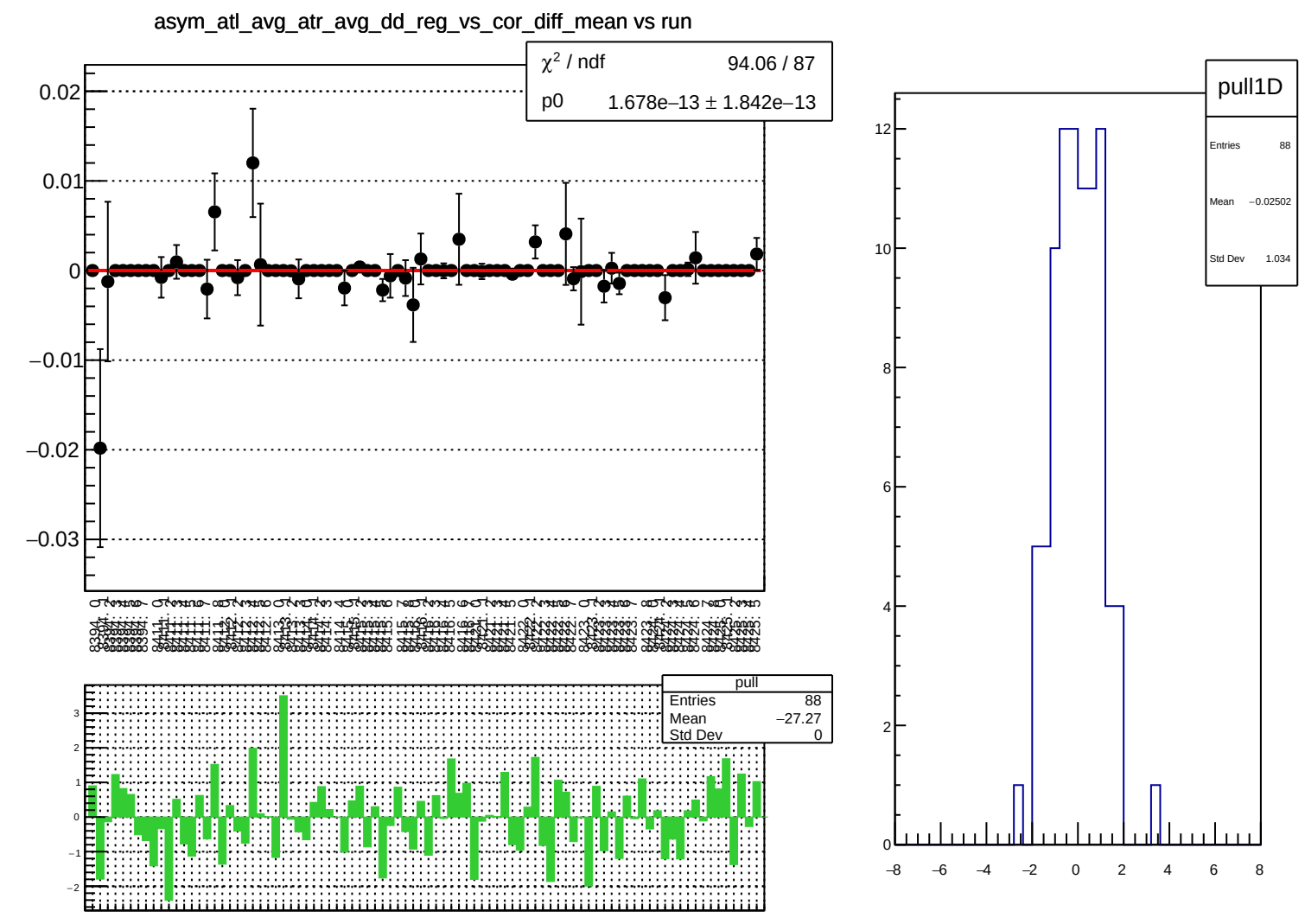

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 64.86 / 87
p0 −2320 ± 1711
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −118.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

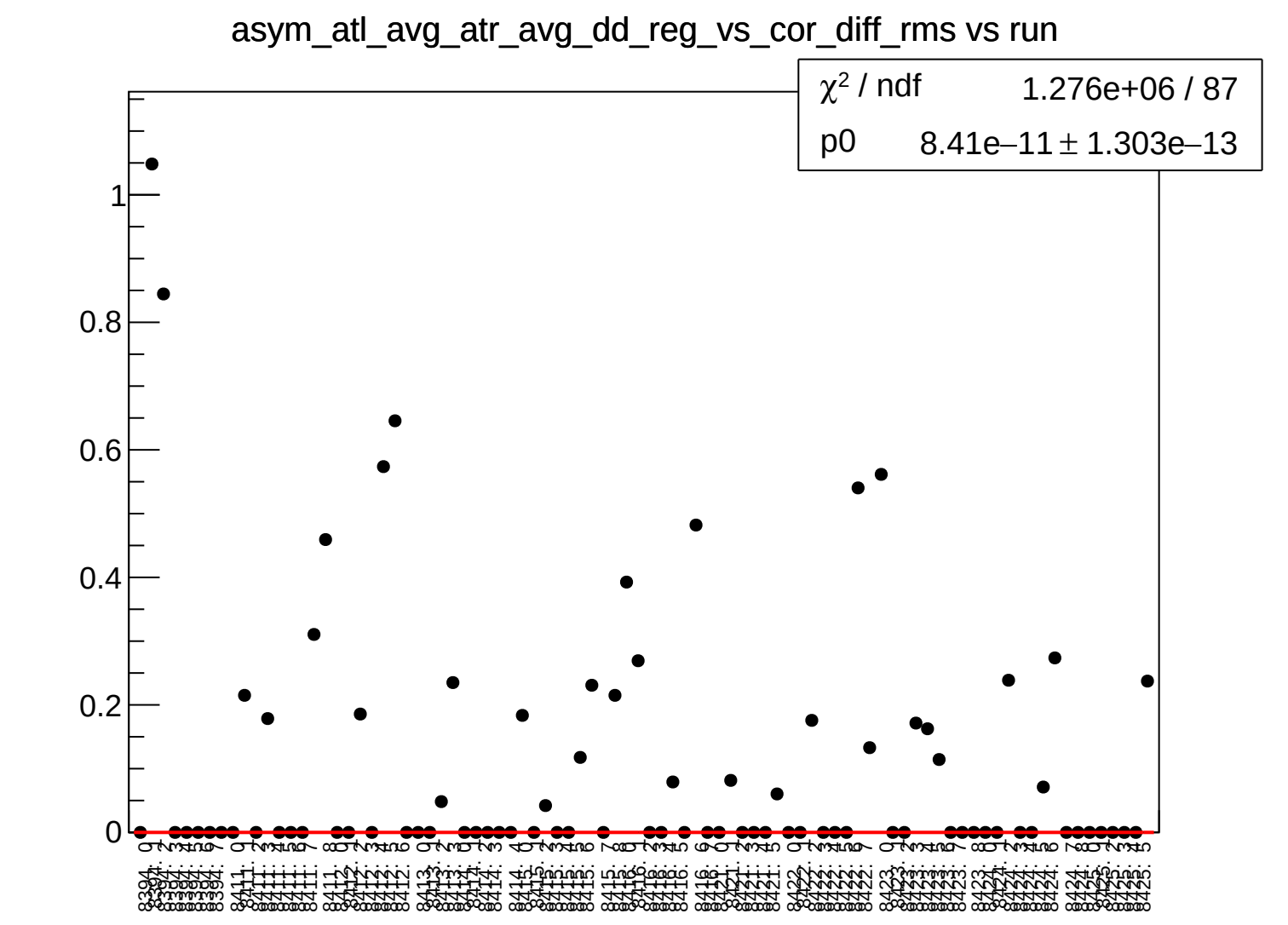

pull1D
Entries 88
Mean 0.01612
Std Dev 0.8583
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

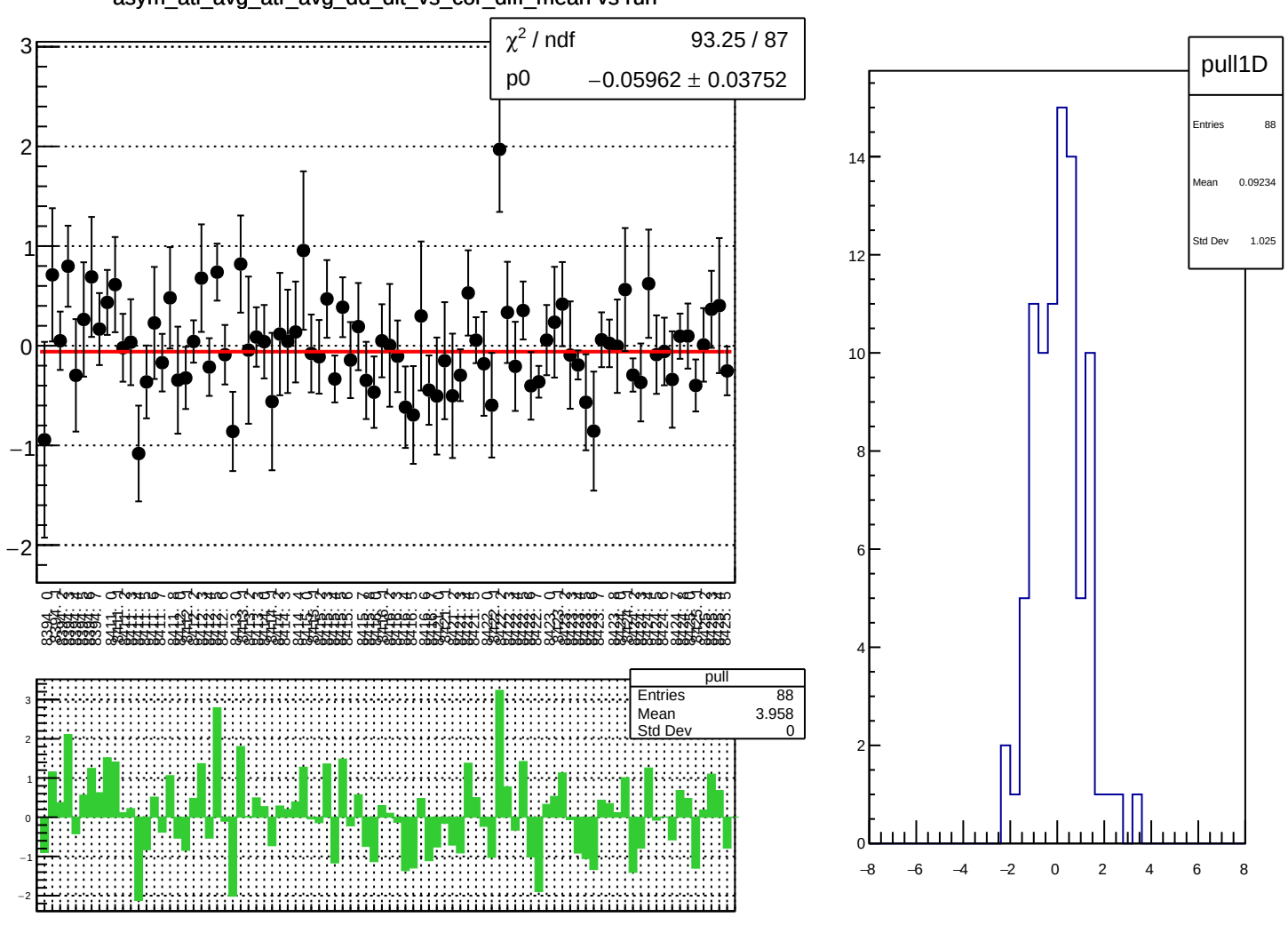

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.324e+04 / 87
p0 1564 ± 1.21
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100

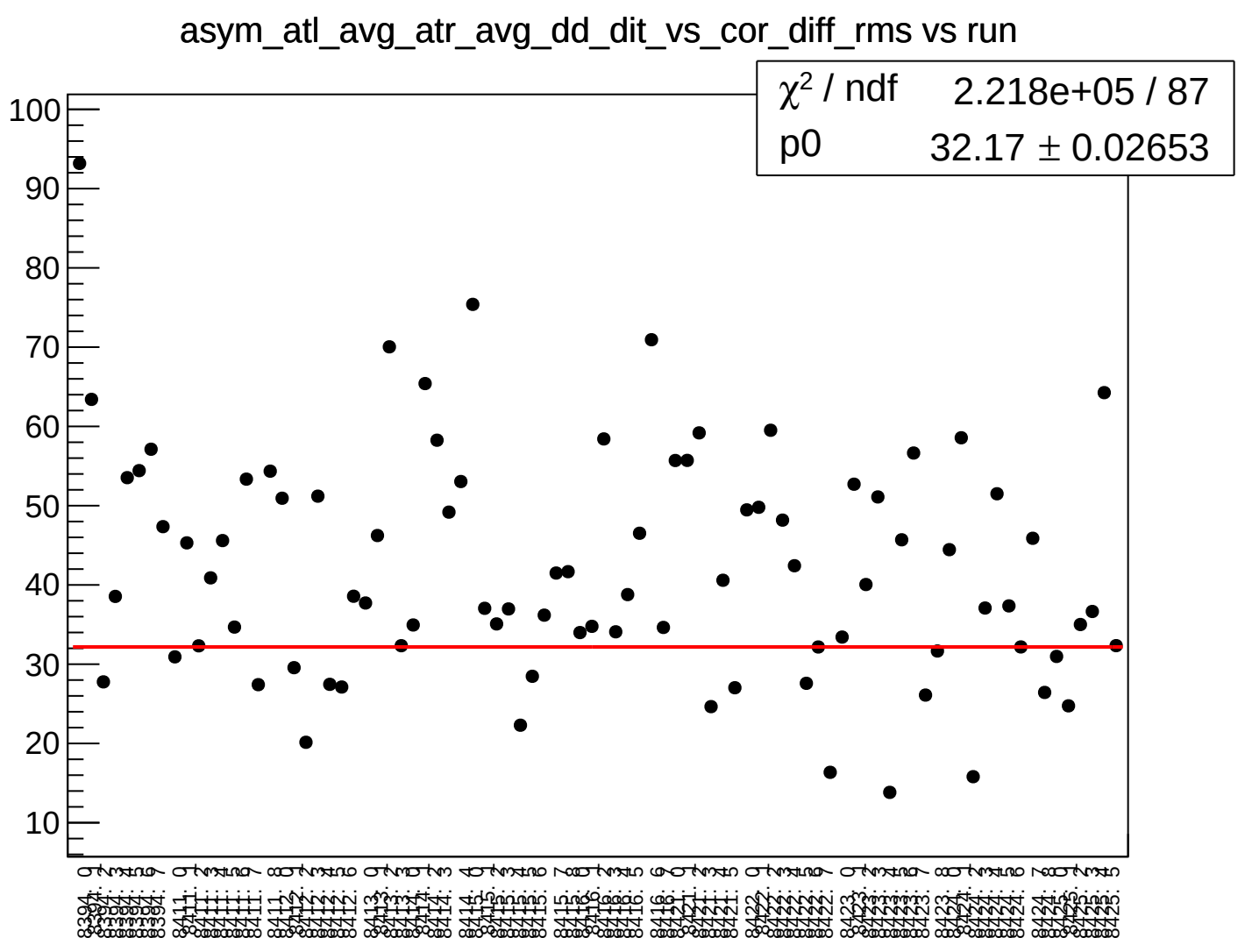

asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ² / ndf 80.69 / 87
p0 1701 ± 2208
pull
Entries 88
Mean −131.2
Std Dev 0
pull1D
Entries 88
Mean −0.01895
Std Dev 0.9574

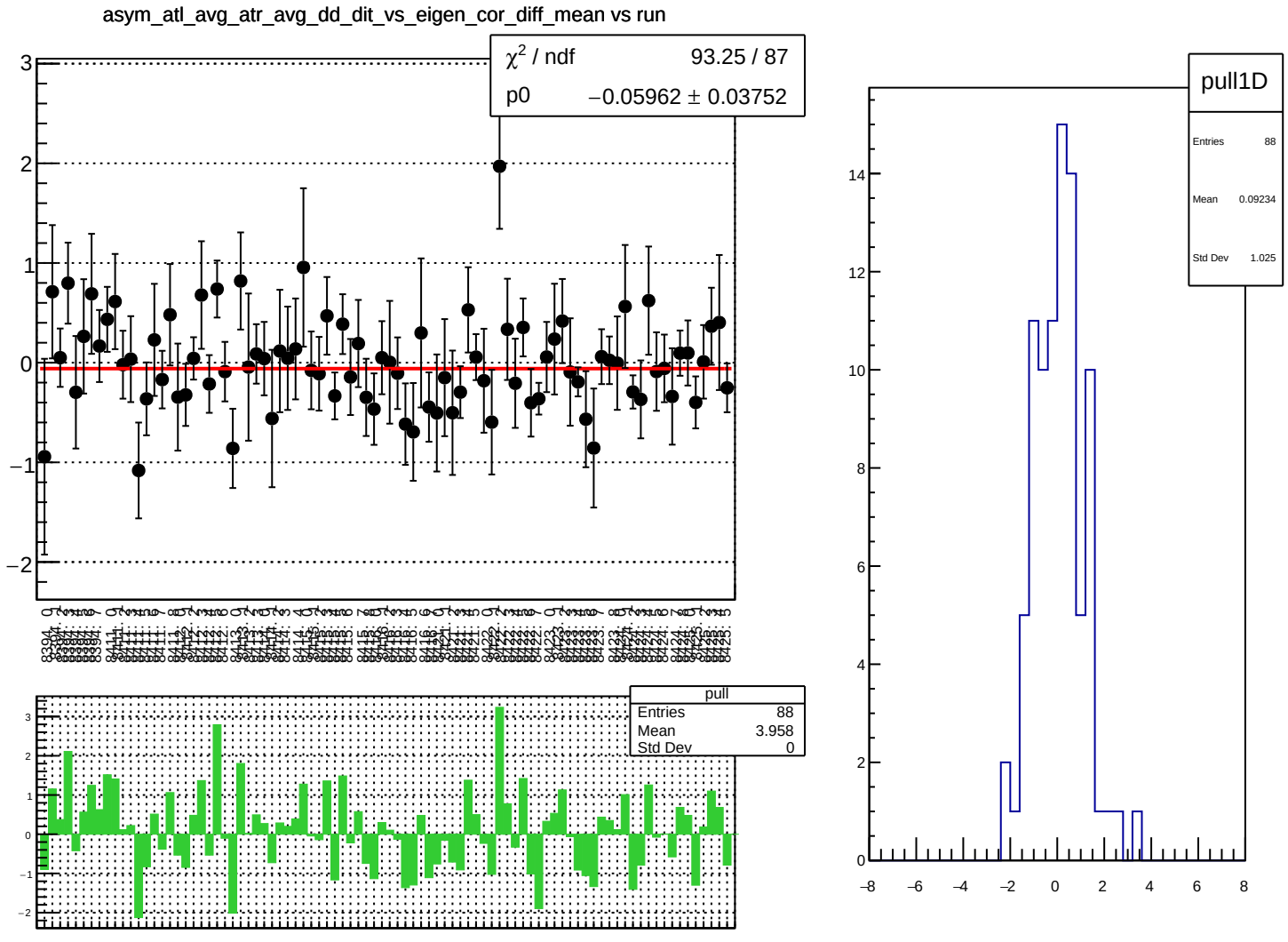

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 8750 / 87
p0 2026 ± 1.561
2300
2200
2100
2000
1900
1800
1700

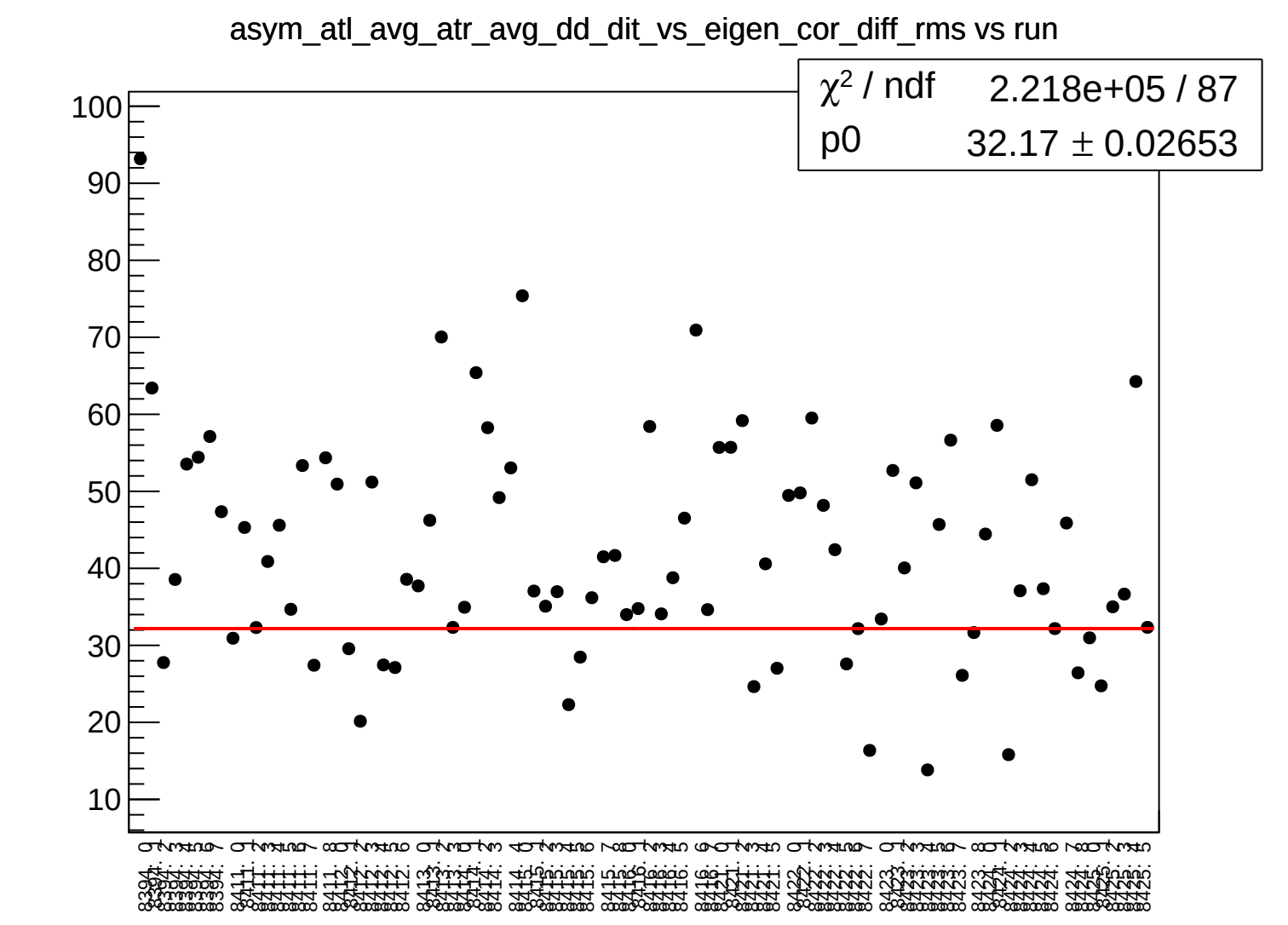

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 94.06 / 87
p0 1.678e−13 ± 1.842e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 88
Mean −27.27
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.02502
Std Dev 1.034
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

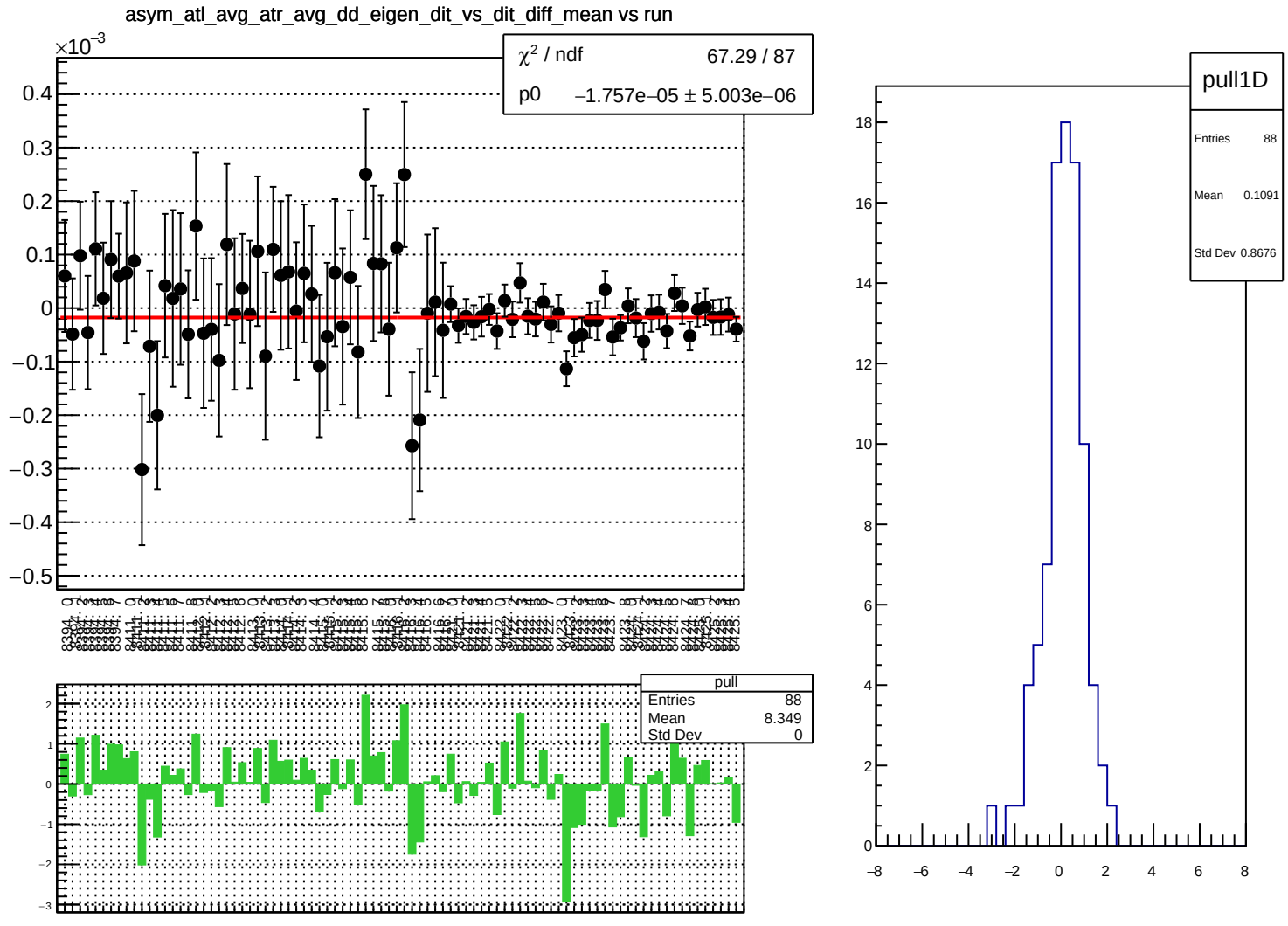

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.276e+06 / 87
p0 8.41e−11 ± 1.303e−13
1
0.8
0.6
0.4
0.2
0

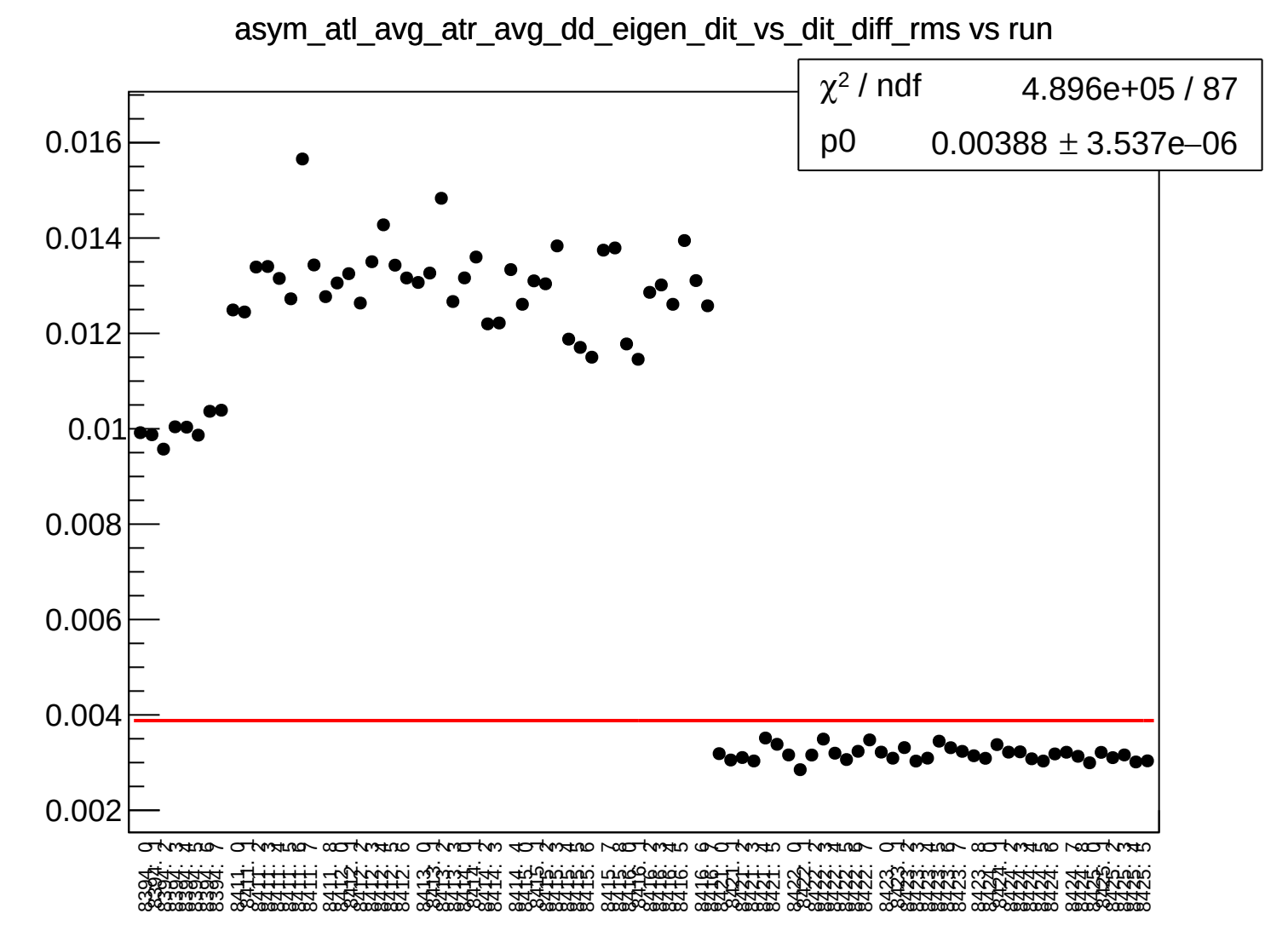

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.25 / 87
p0 −0.05962 ± 0.03752
pull
Entries 88
Mean 3.958
Std Dev 0
pull1D
Entries 88
Mean 0.09234
Std Dev 1.025

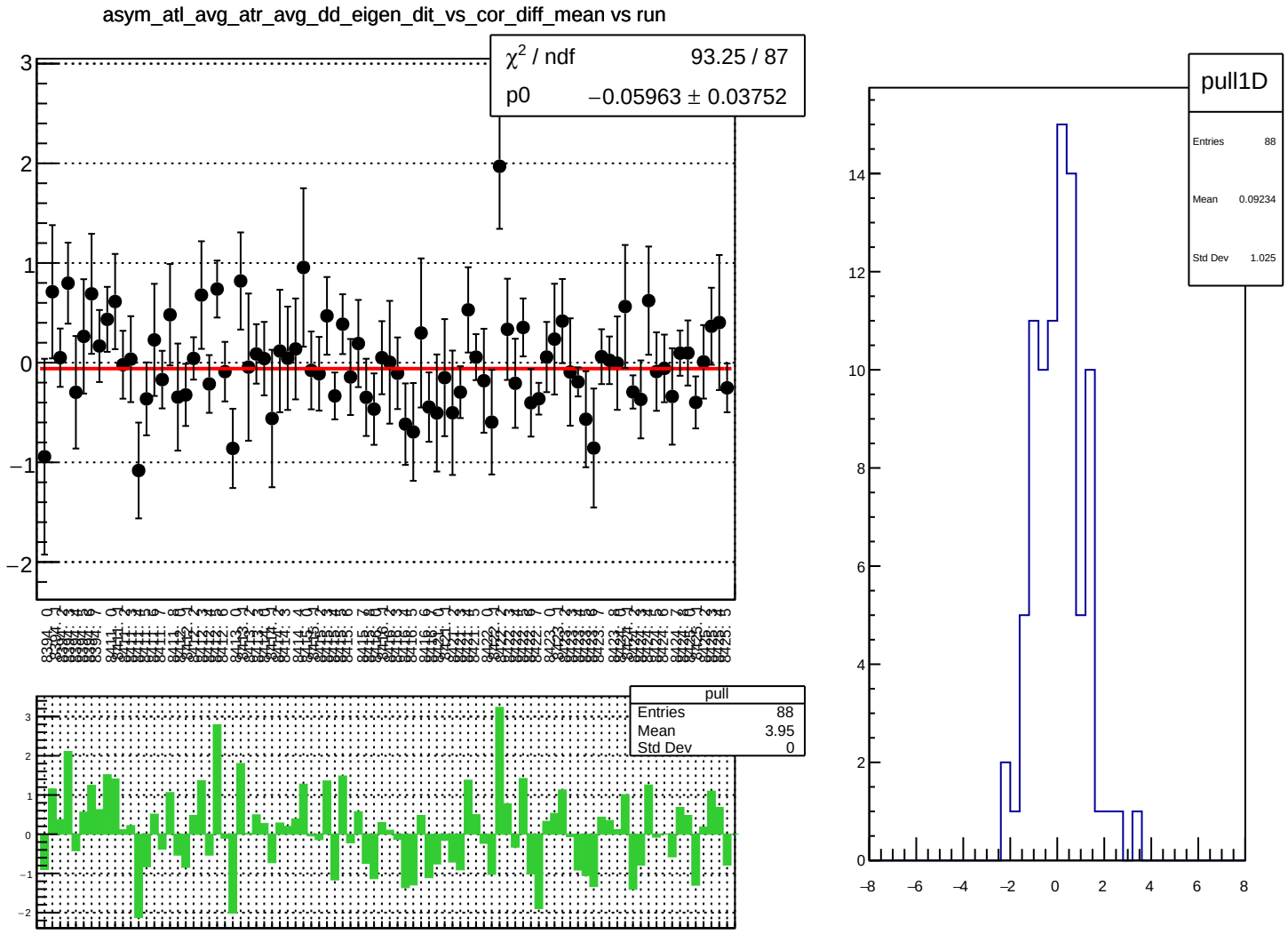

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.218e+05 / 87
p0 32.17 ± 0.02653
100
90
80
70
60
50
40
30
20
10

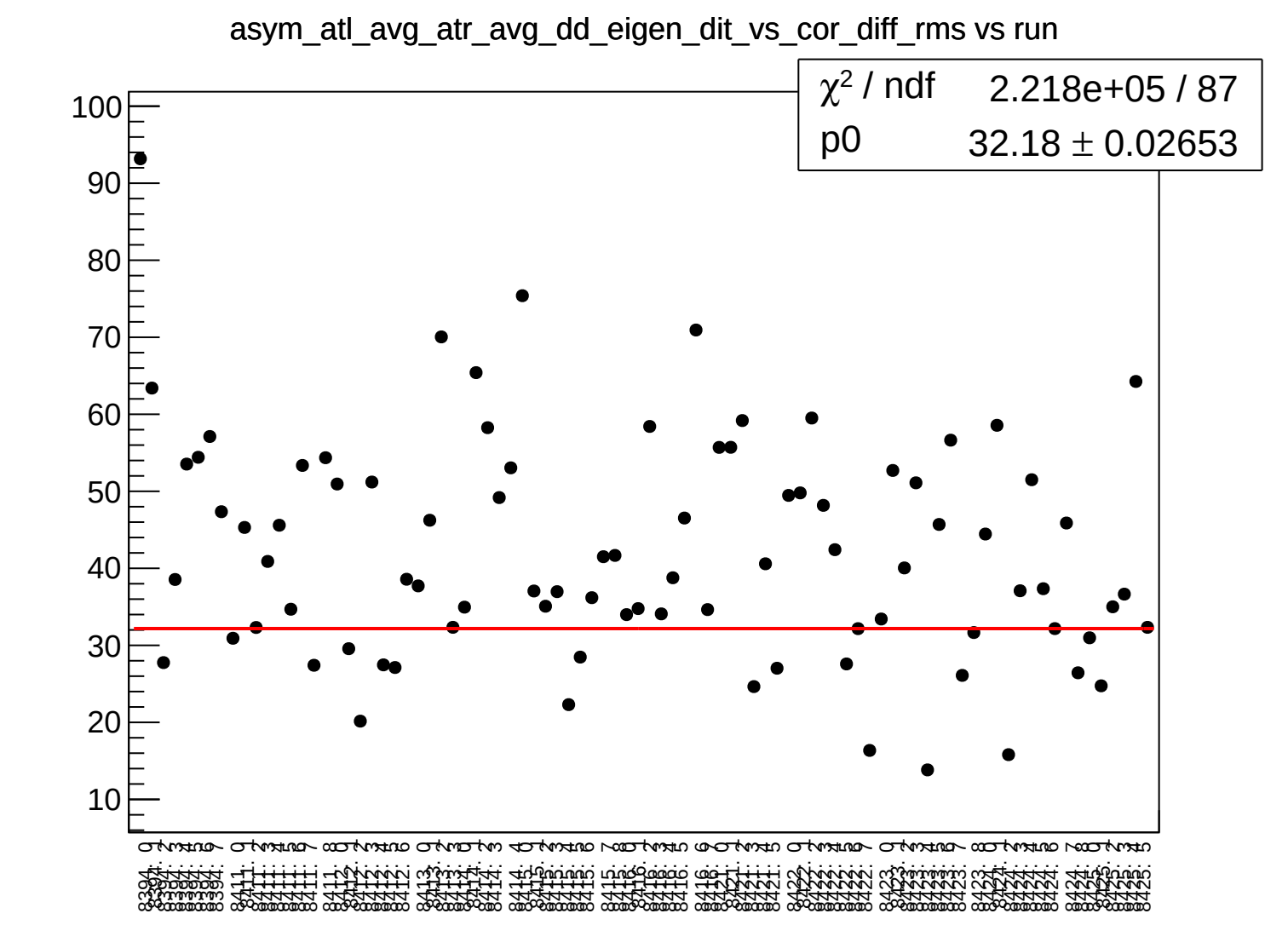

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.25 / 87
p0 −0.05962 ± 0.03752
pull
Entries 88
Mean 3.958
Std Dev 0
pull1D
Entries 88
Mean 0.09234
Std Dev 1.025

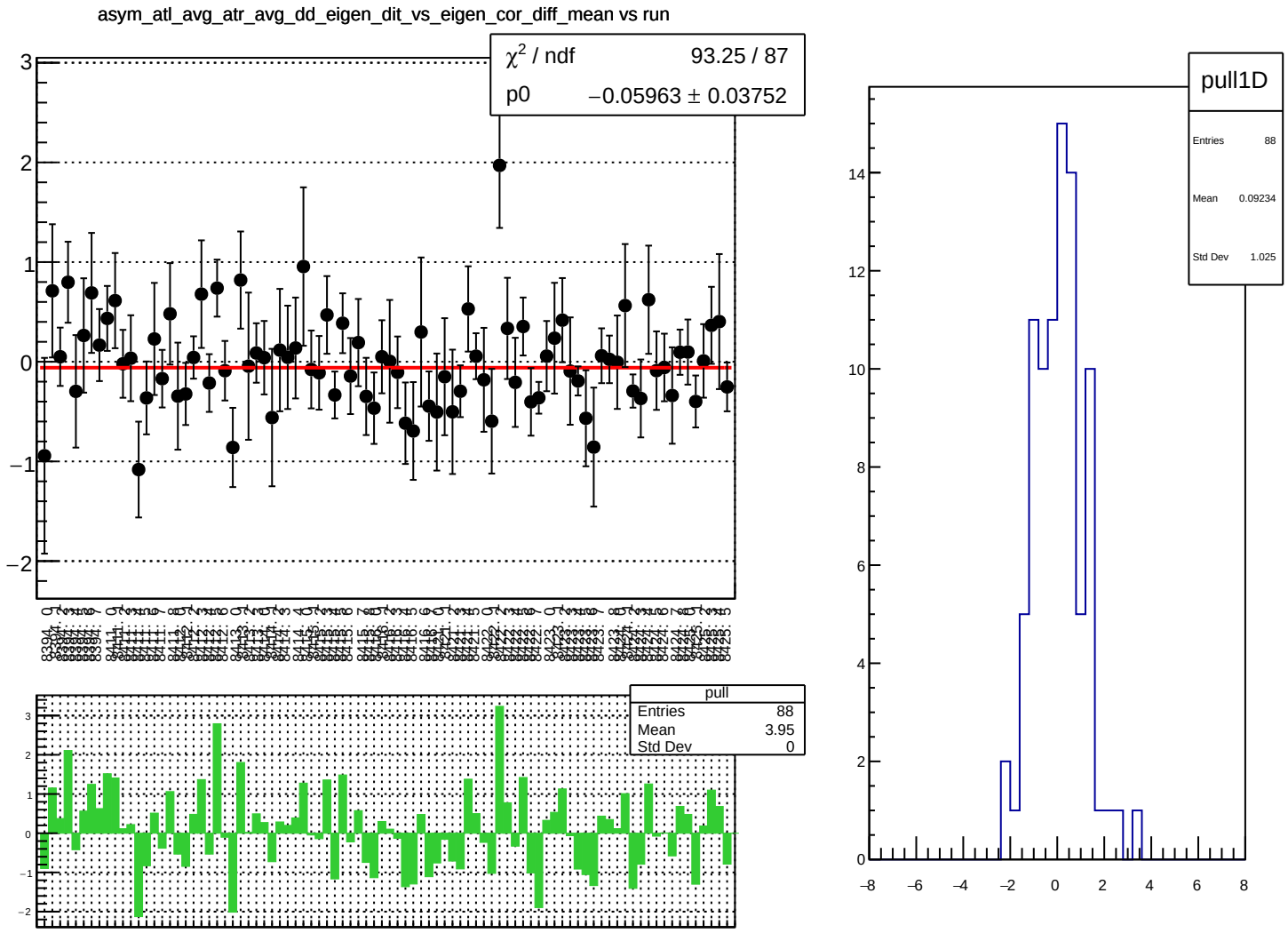

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.218e+05 / 87
p0 32.17 ± 0.02653
100
90
80
70
60
50
40
30
20
10

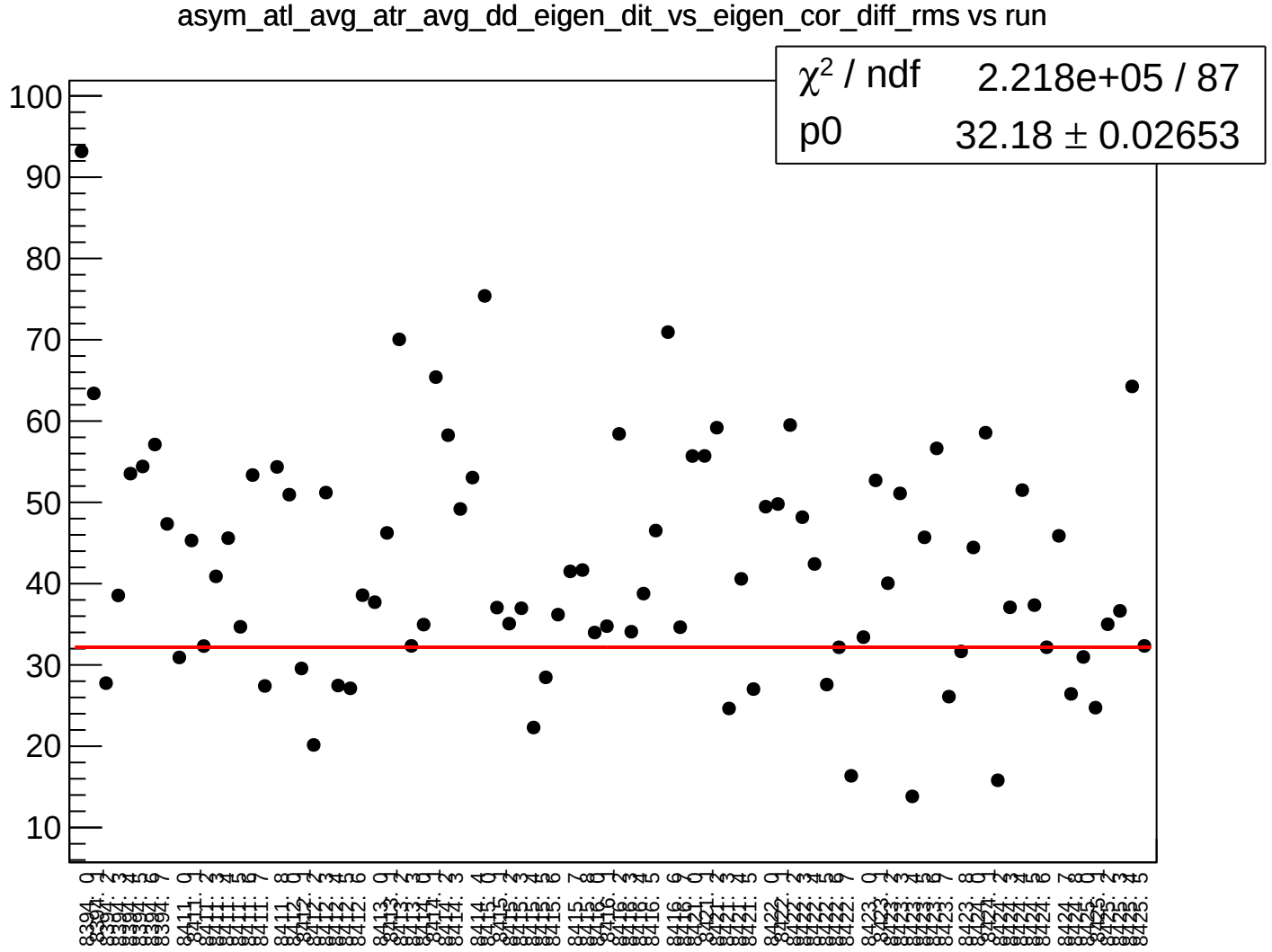

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 67.29 / 87
p0 −1.757e−05 ± 5.003e−06
pull
Entries 88
Mean 8.349
Std Dev 0
pull1D
Entries 88
Mean 0.1091
Std Dev 0.8676

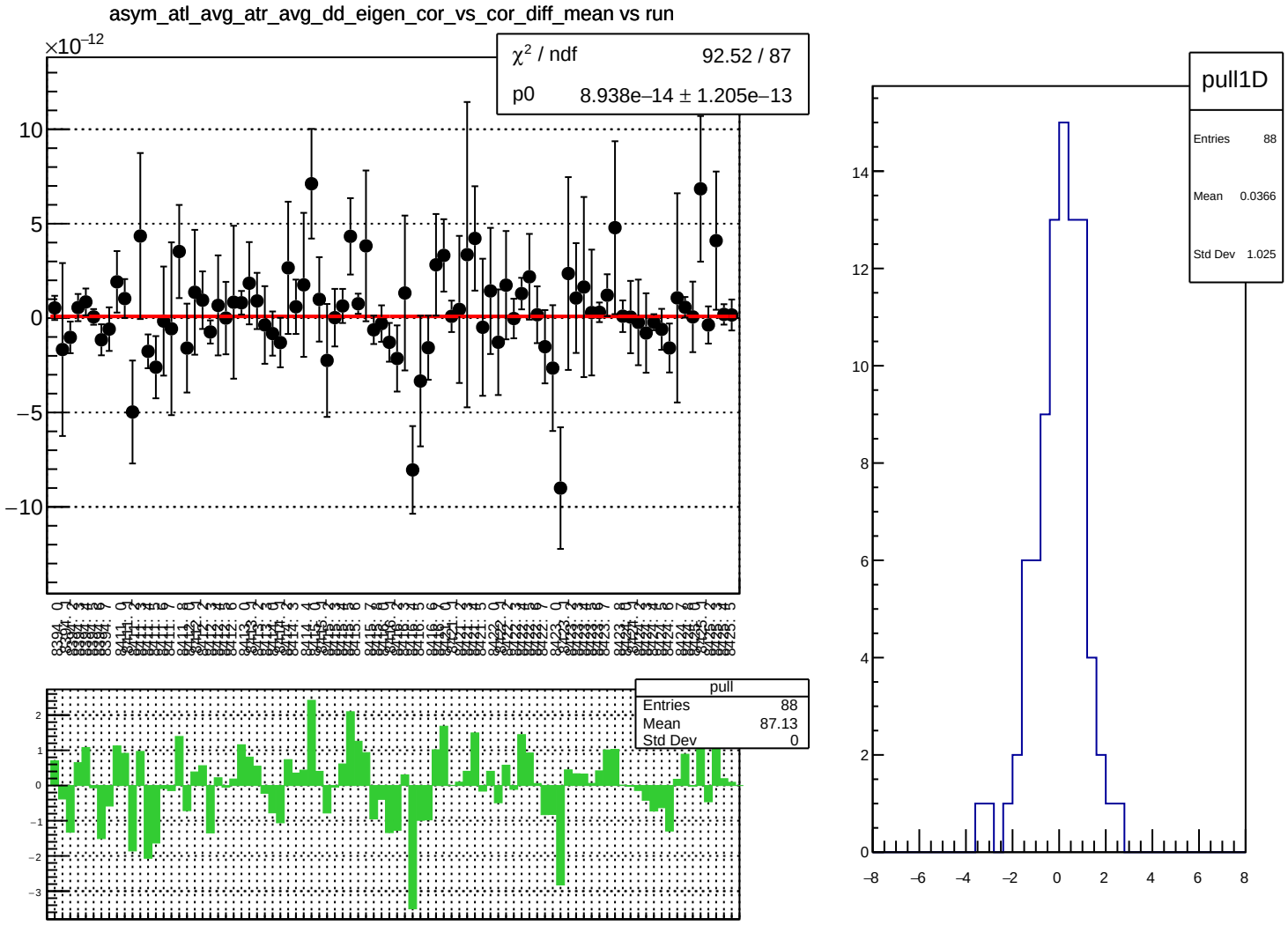

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.896e+05 / 87
p0 0.00388 ± 3.537e–06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

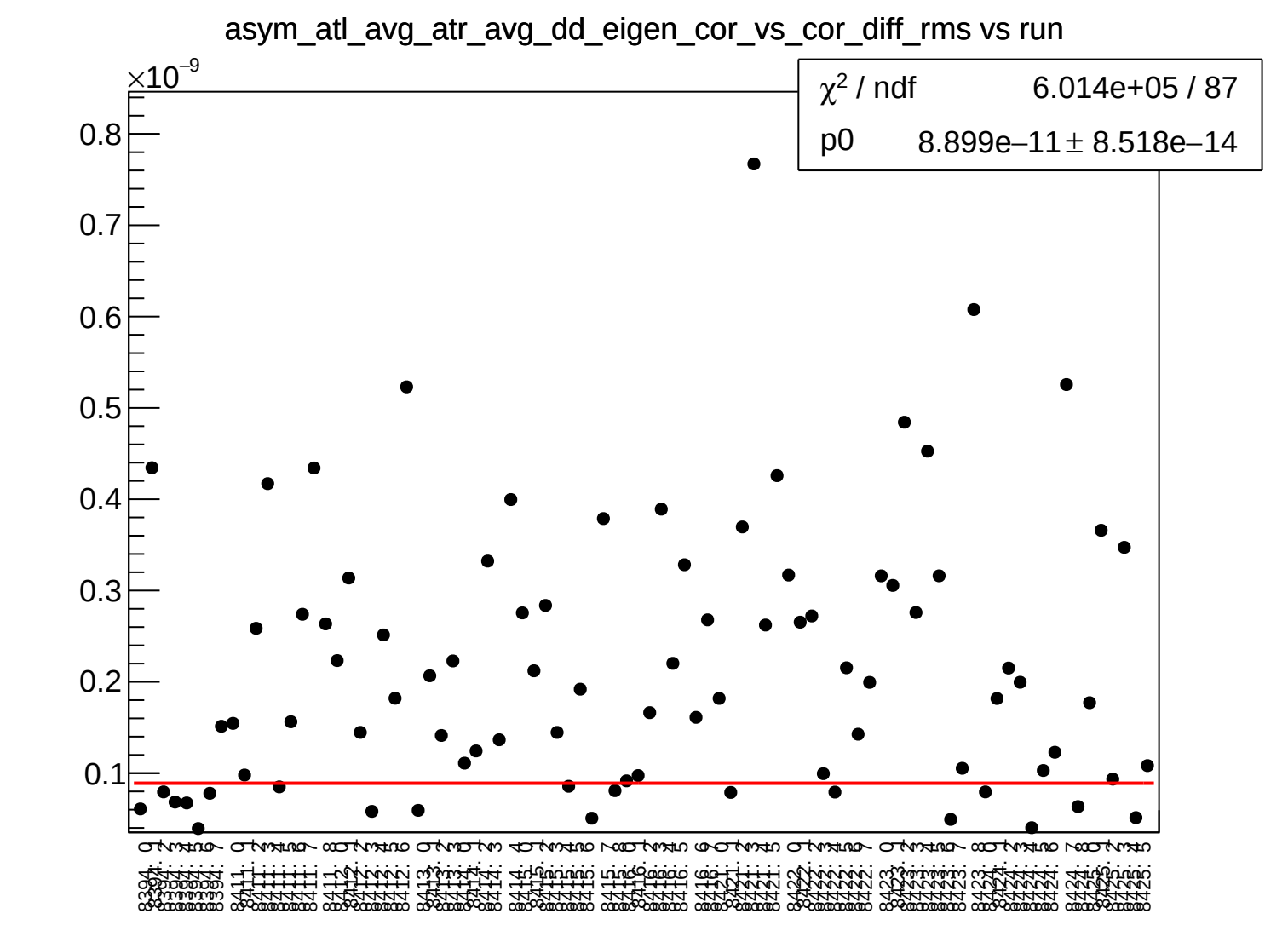

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.25 / 87
p0 −0.05963 ± 0.03752
pull
Entries 88
Mean 3.95
Std Dev 0
pull1D
Entries 88
Mean 0.09234
Std Dev 1.025

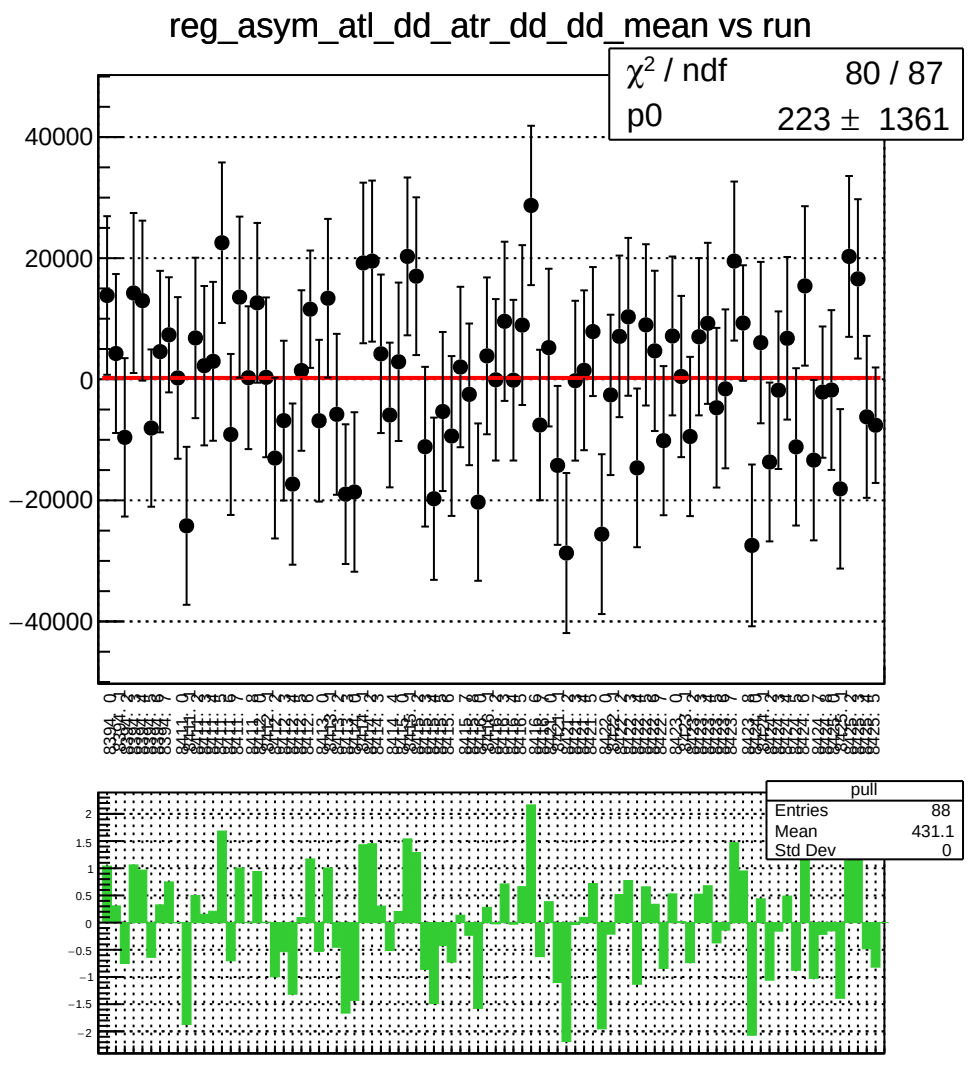

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.218e+05 / 87
p0 32.18 ± 0.02653
100
90
80
70
60
50
40
30
20
10

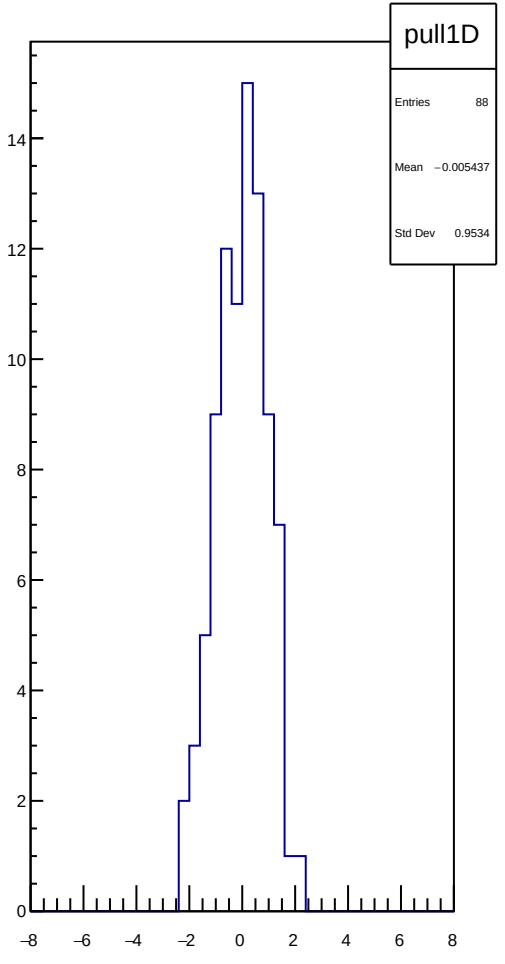

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.25 / 87
p0 −0.05963 ± 0.03752
pull
Entries 88
Mean 3.95
Std Dev 0
pull1D
Entries 88
Mean 0.09234
Std Dev 1.025

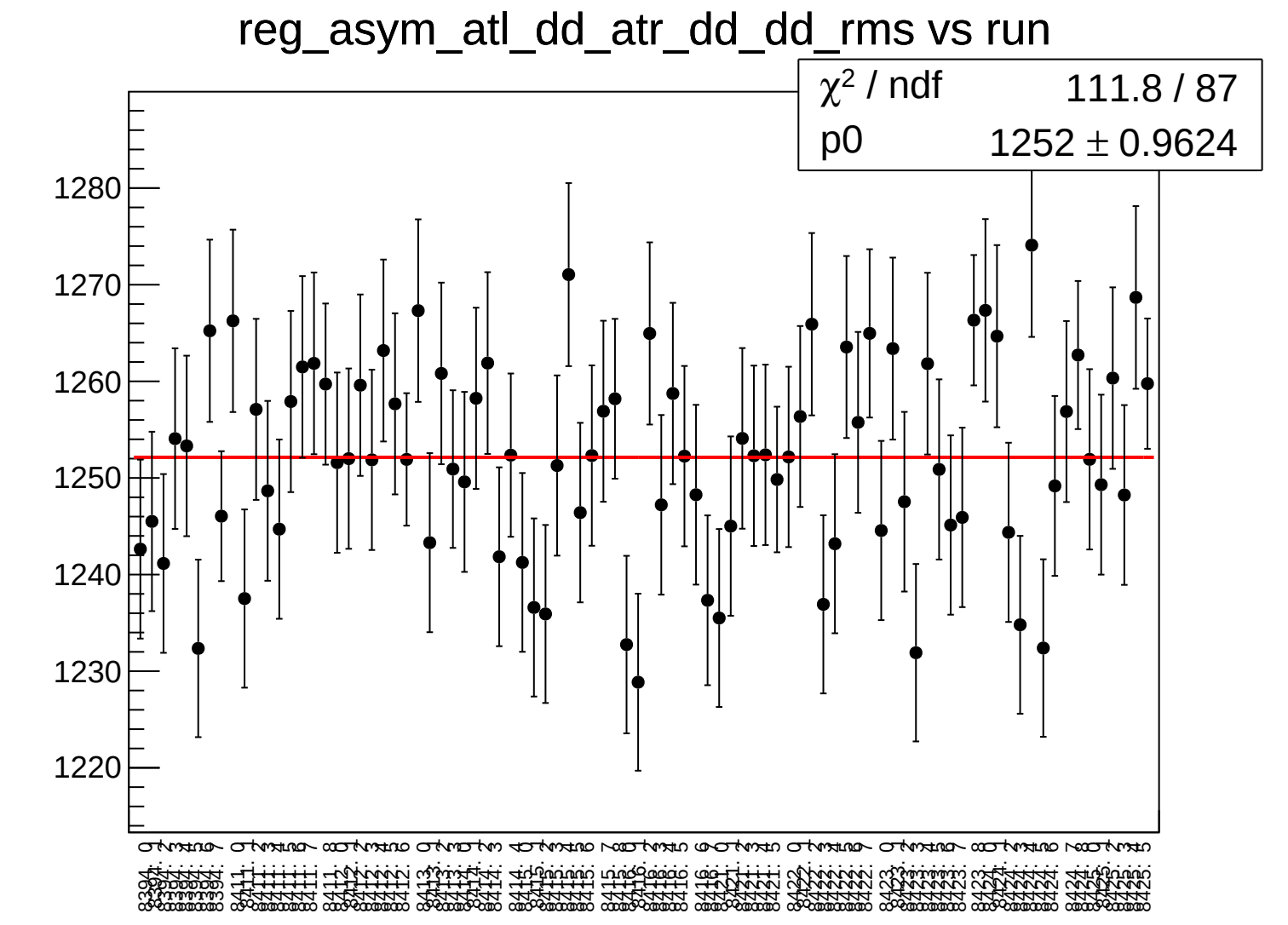

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.218e+05 / 87
p0 32.18 ± 0.02653
100
90
80
70
60
50
40
30
20
10

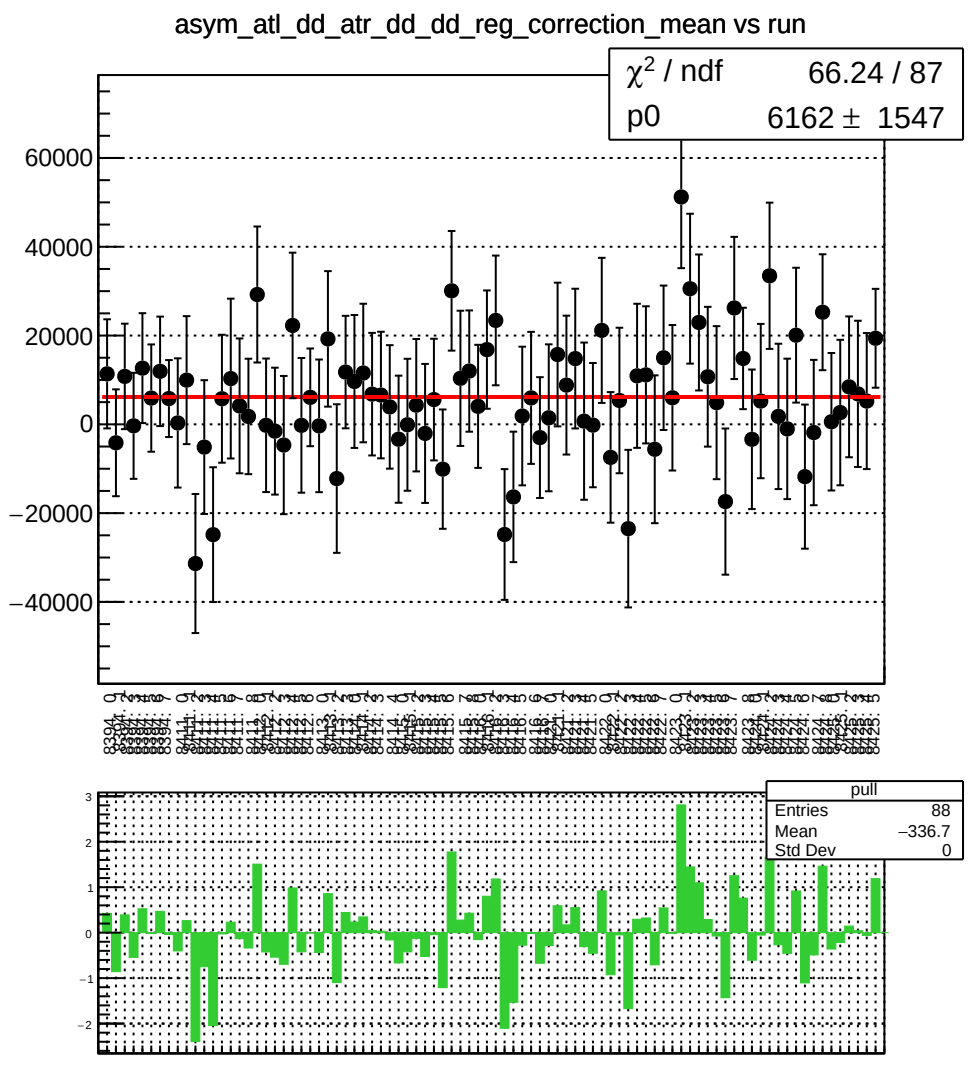

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.52 / 87
p0 8.938e−14 ± 1.205e−13
10
5
0
−5
−10
pull
Entries 88
Mean 87.13
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.0366
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

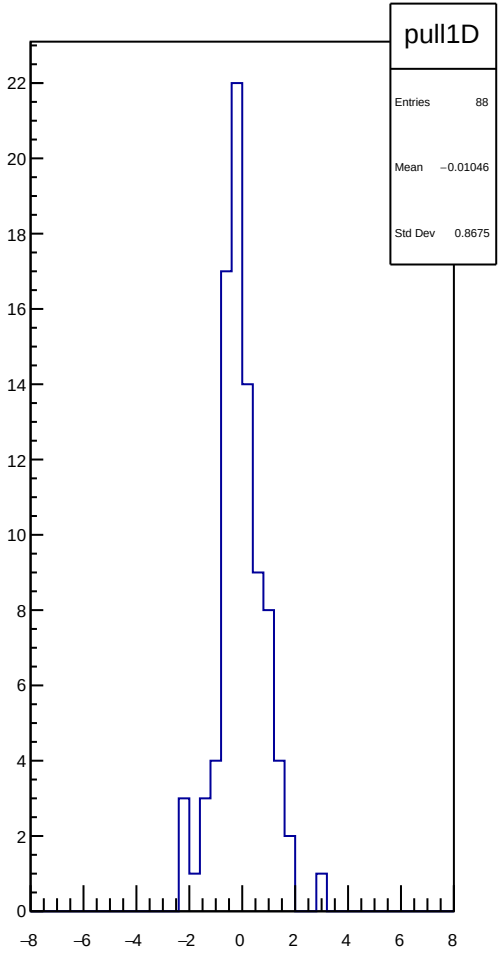

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.014e+05 / 87
p0 8.899e−11 ± 8.518e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

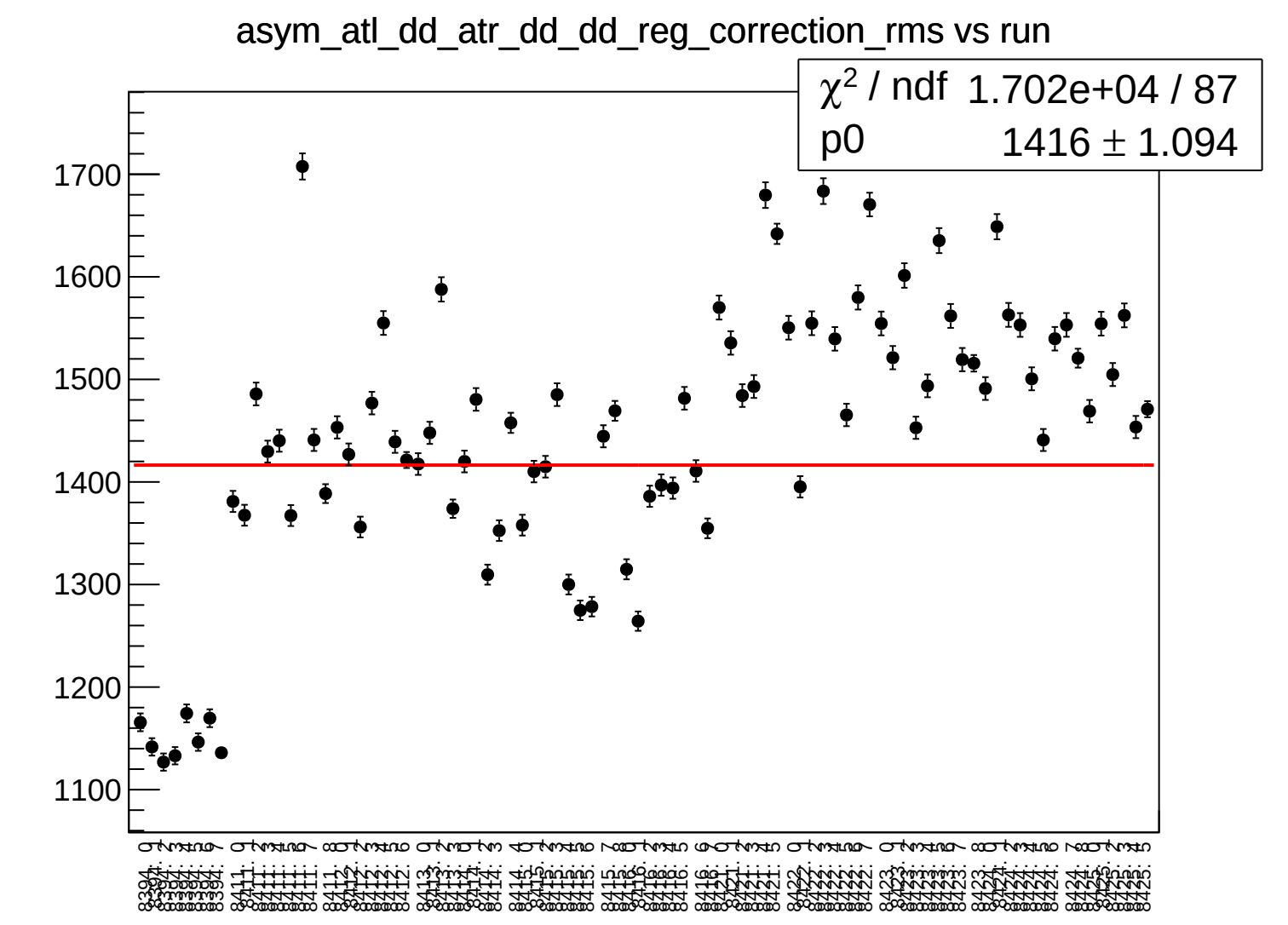

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 80 / 87
p0 223 ± 1361
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 431.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

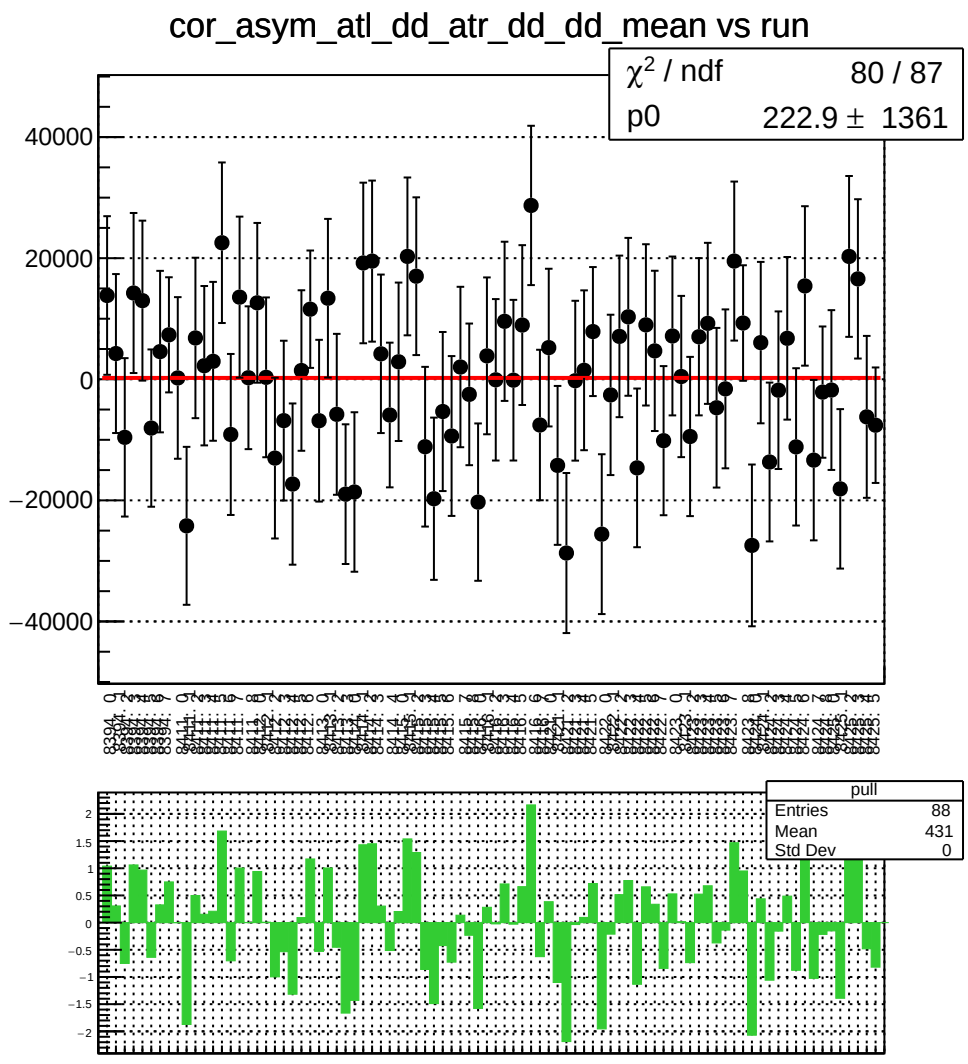

pull1D
Entries 88
Mean −0.005437
Std Dev 0.9534
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

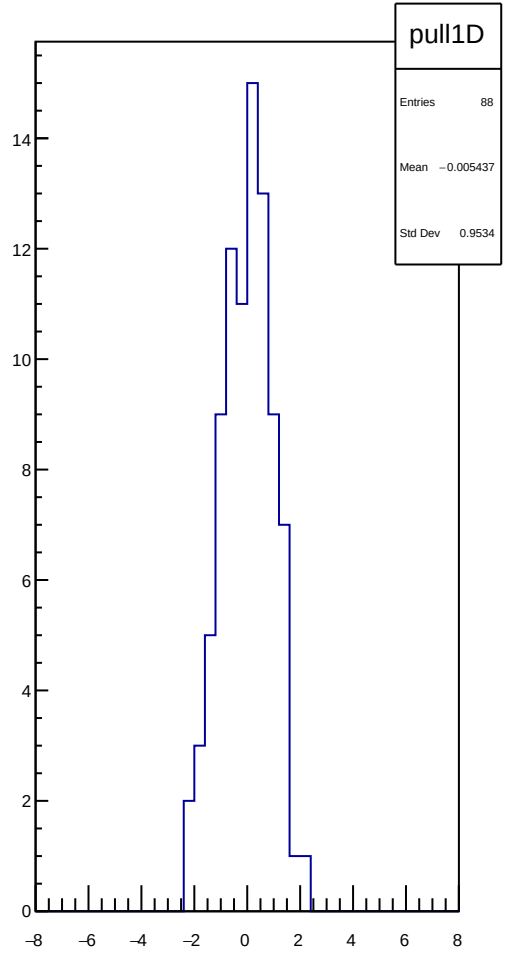

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 111.8 / 87
p0 1252 ± 0.9624
1280
1270
1260
1250
1240
1230
1220

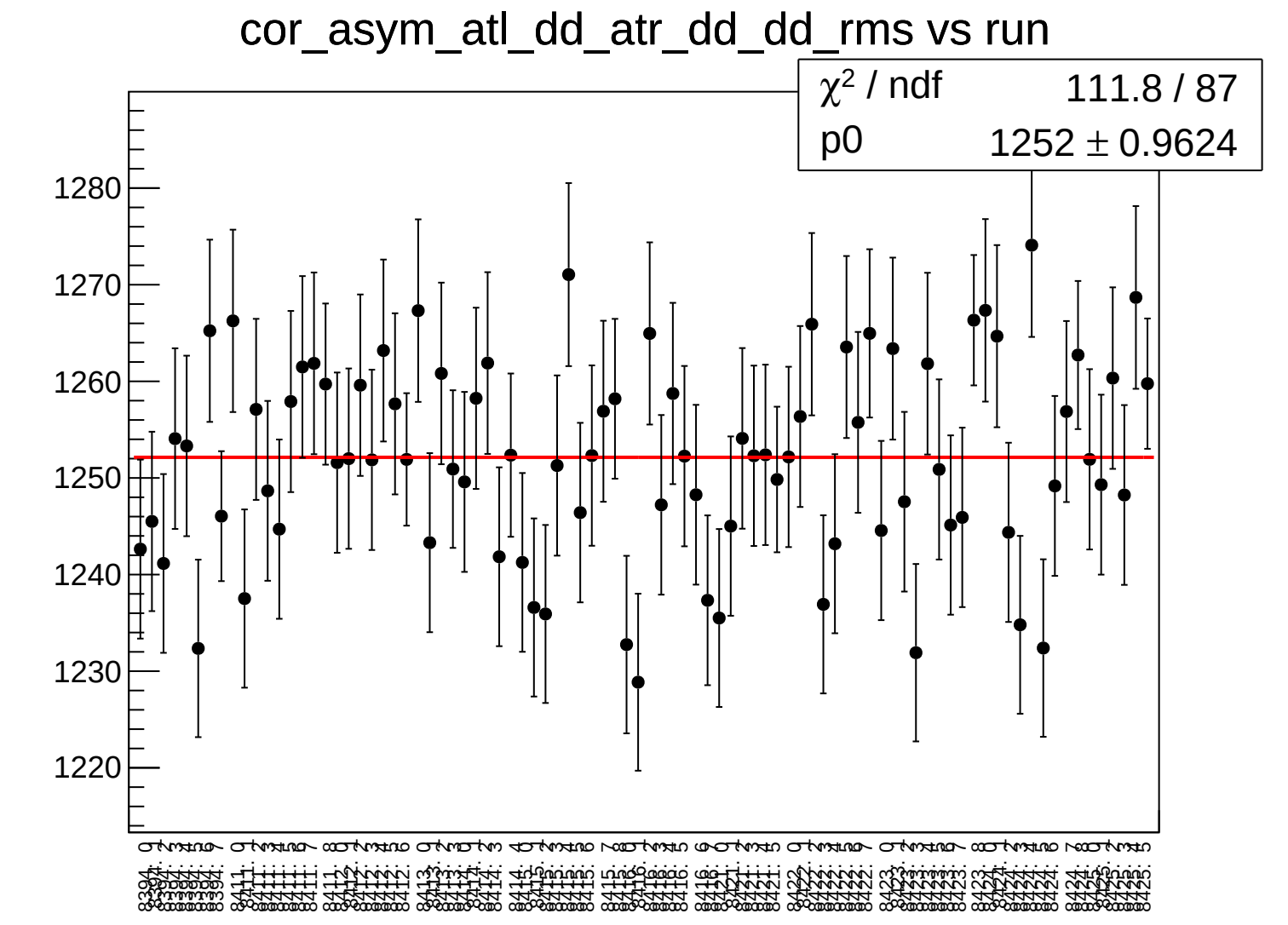

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 66.24 / 87
p0 6162 ± 1547
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −336.7
Std Dev 0
3
2
1
0
−1
−2

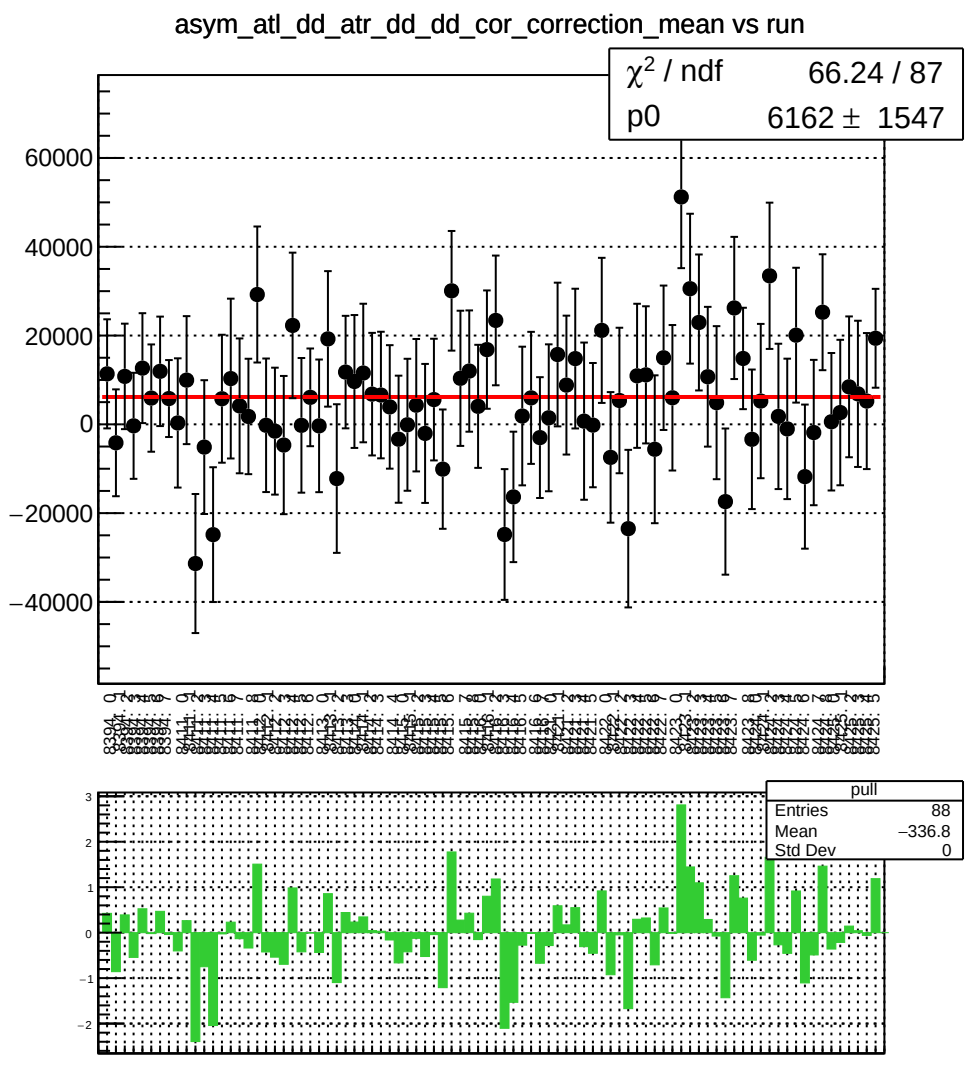

pull1D
Entries 88
Mean −0.01046
Std Dev 0.8675
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

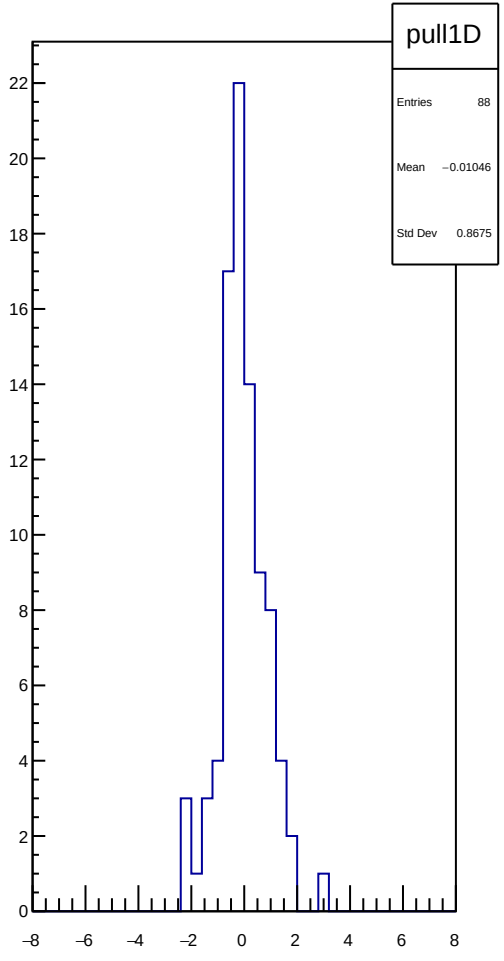

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.702e+04 / 87
p0 1416 ± 1.094
1700
1600
1500
1400
1300
1200
1100

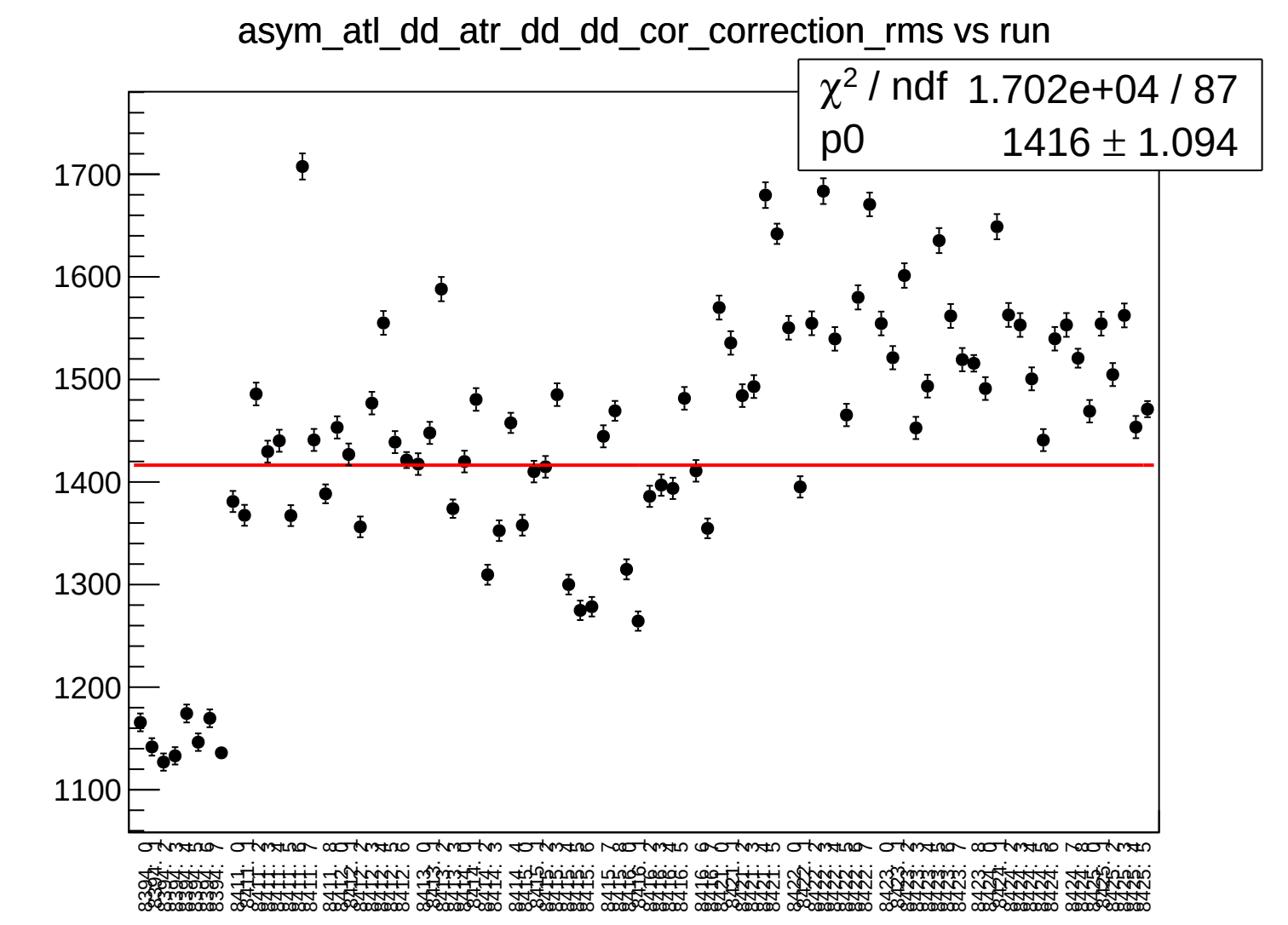

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 80 / 87
p0 222.9 ± 1361
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 431
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

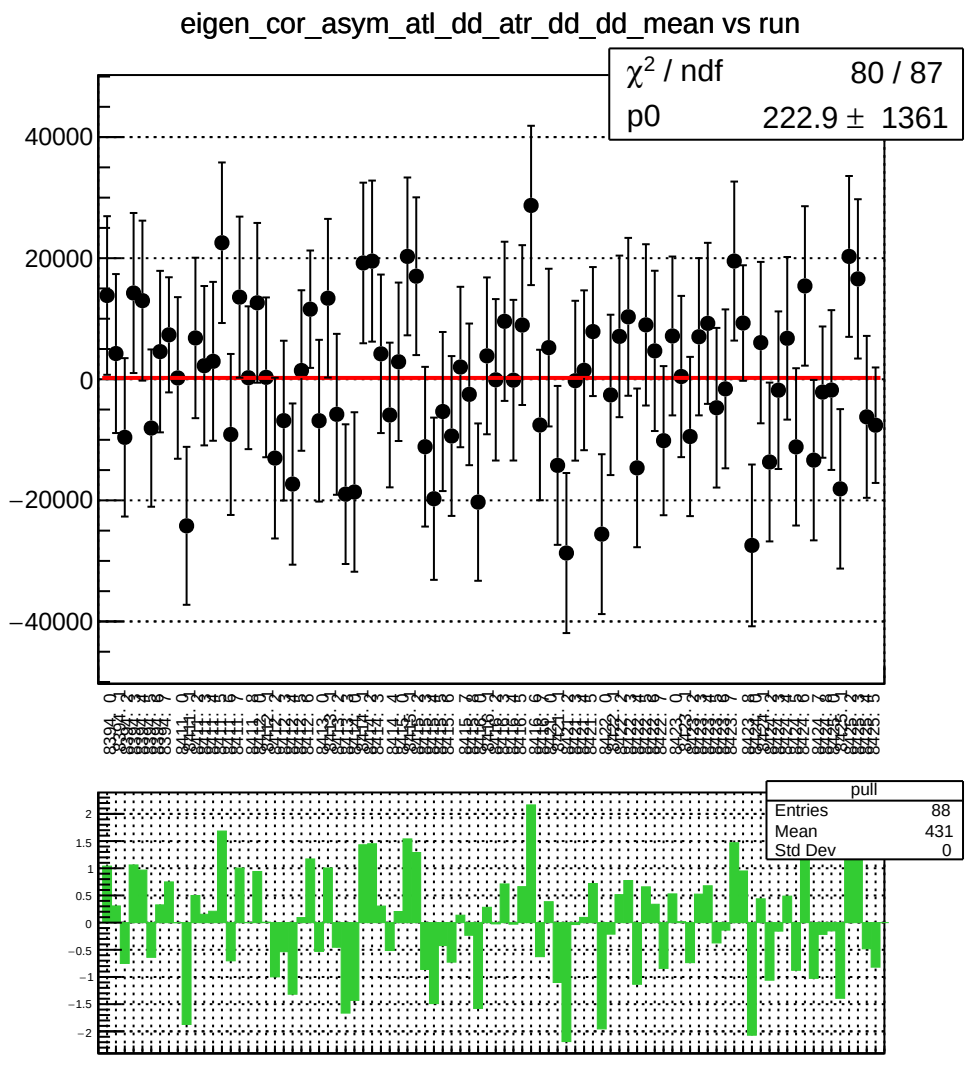

pull1D
Entries 88
Mean −0.005437
Std Dev 0.9534
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

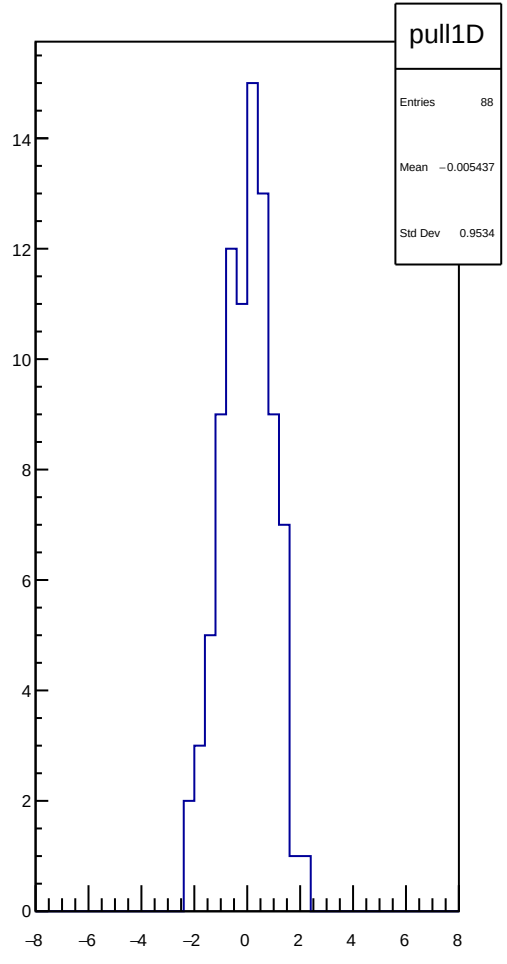

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 111.8 / 87
p0 1252 ± 0.9624
1280
1270
1260
1250
1240
1230
1220

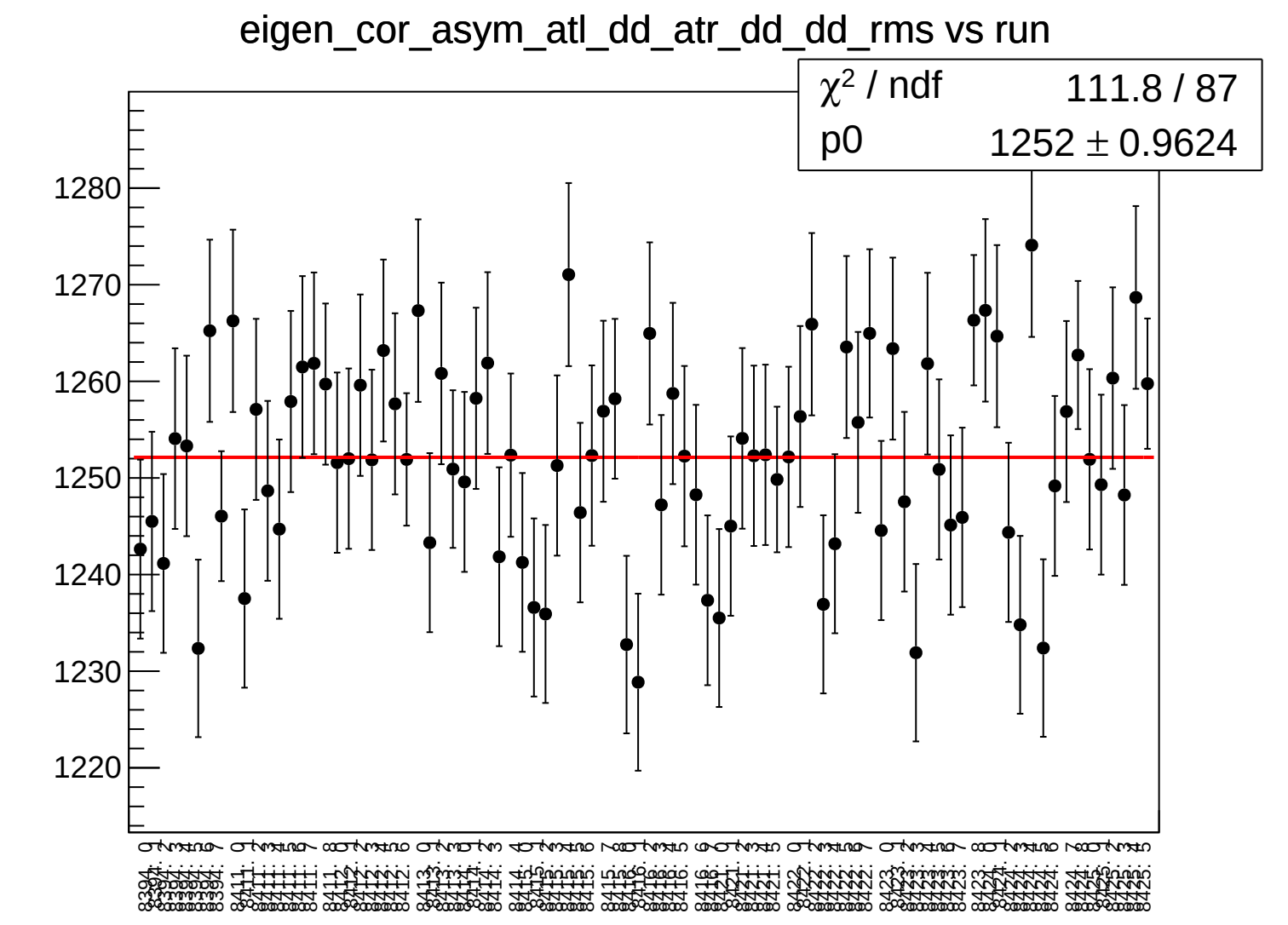

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 66.24 / 87
p0 6162 ± 1547
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −336.8
Std Dev 0
3
2
1
0
−1
−2

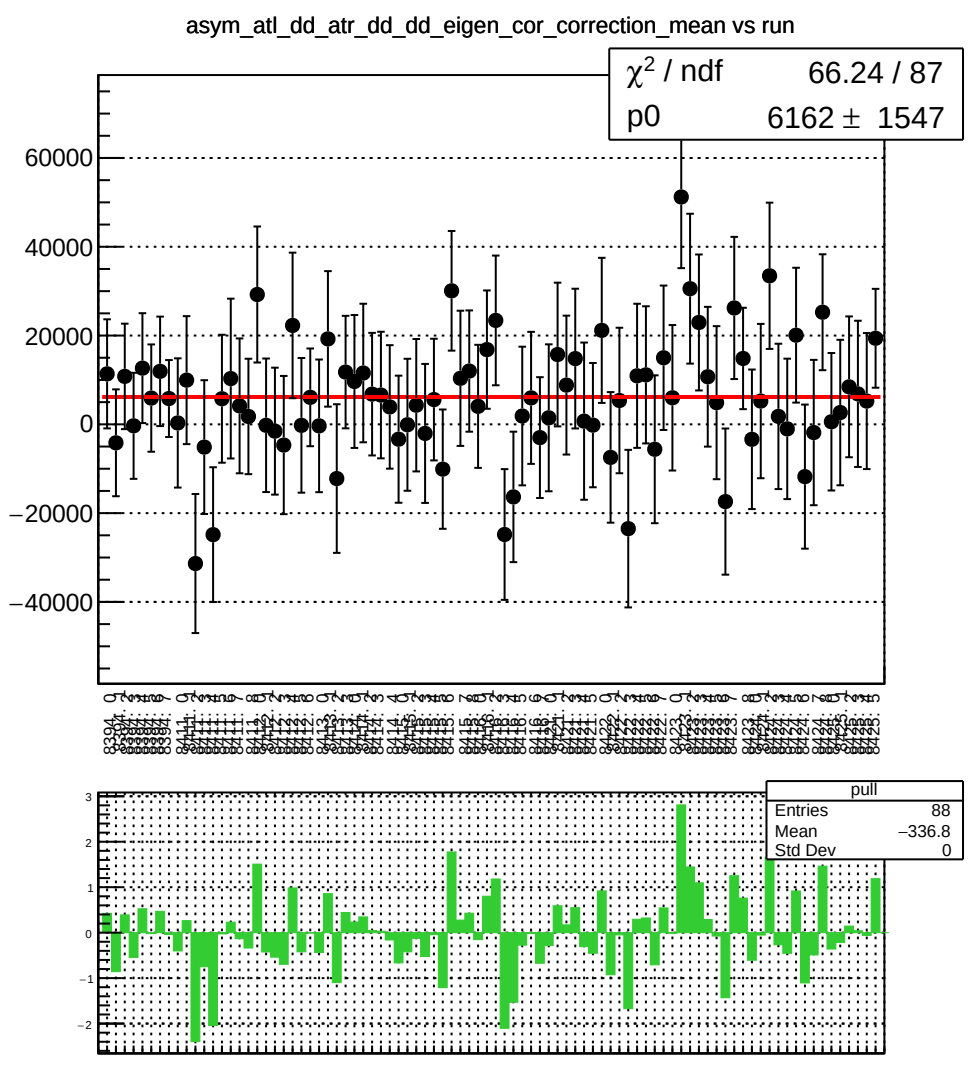

pull1D
Entries 88
Mean −0.01046
Std Dev 0.8675
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

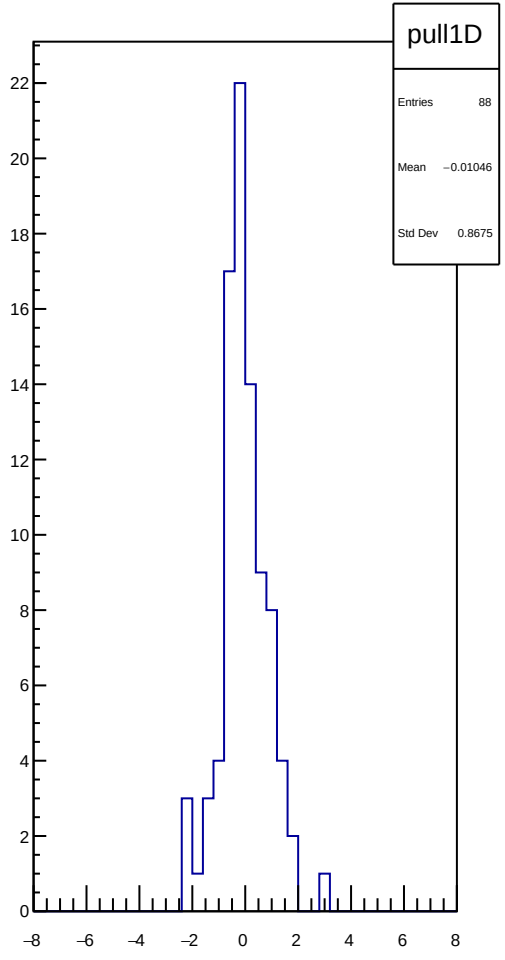

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.702e+04 / 87
p0 1416 ± 1.094
1700
1600
1500
1400
1300
1200
1100

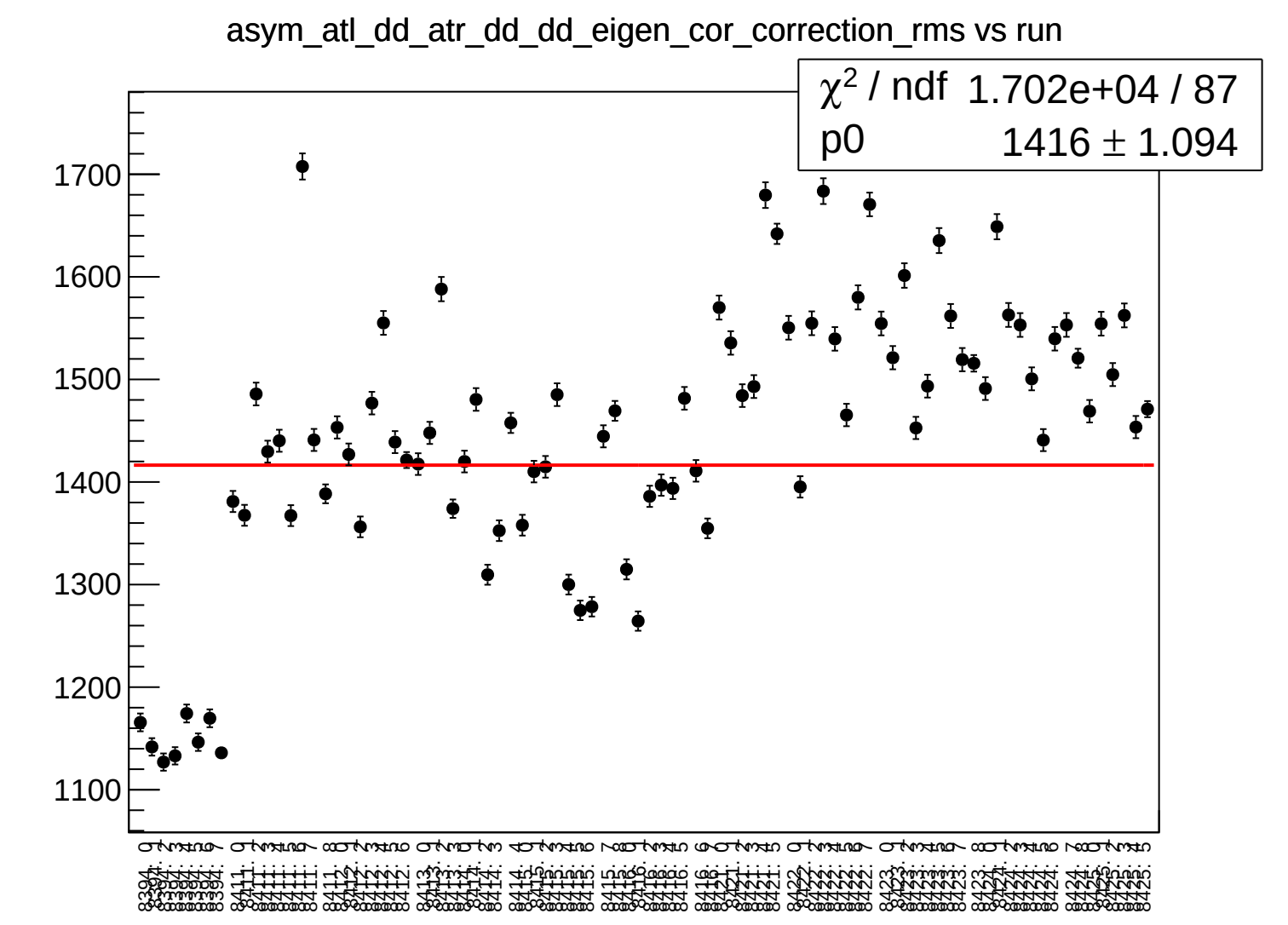

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 80 / 87
p0 222.9 ± 1361
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 431
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

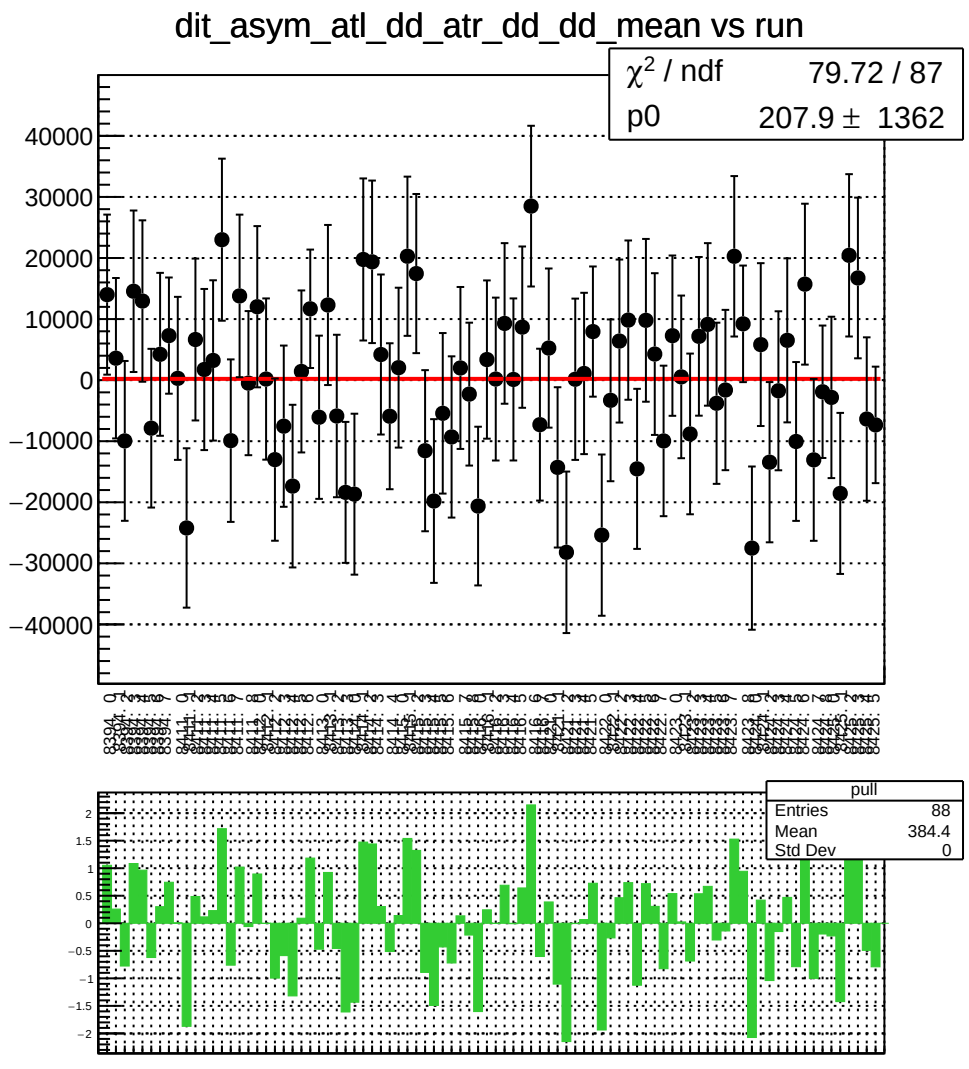

pull1D
Entries 88
Mean −0.005437
Std Dev 0.9534
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

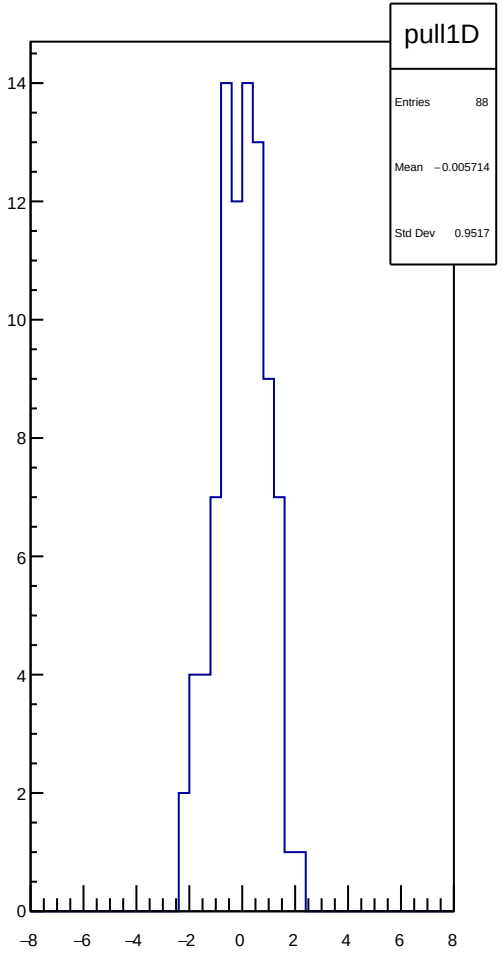

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 111.8 / 87
p0 1252 ± 0.9624
1280
1270
1260
1250
1240
1230
1220

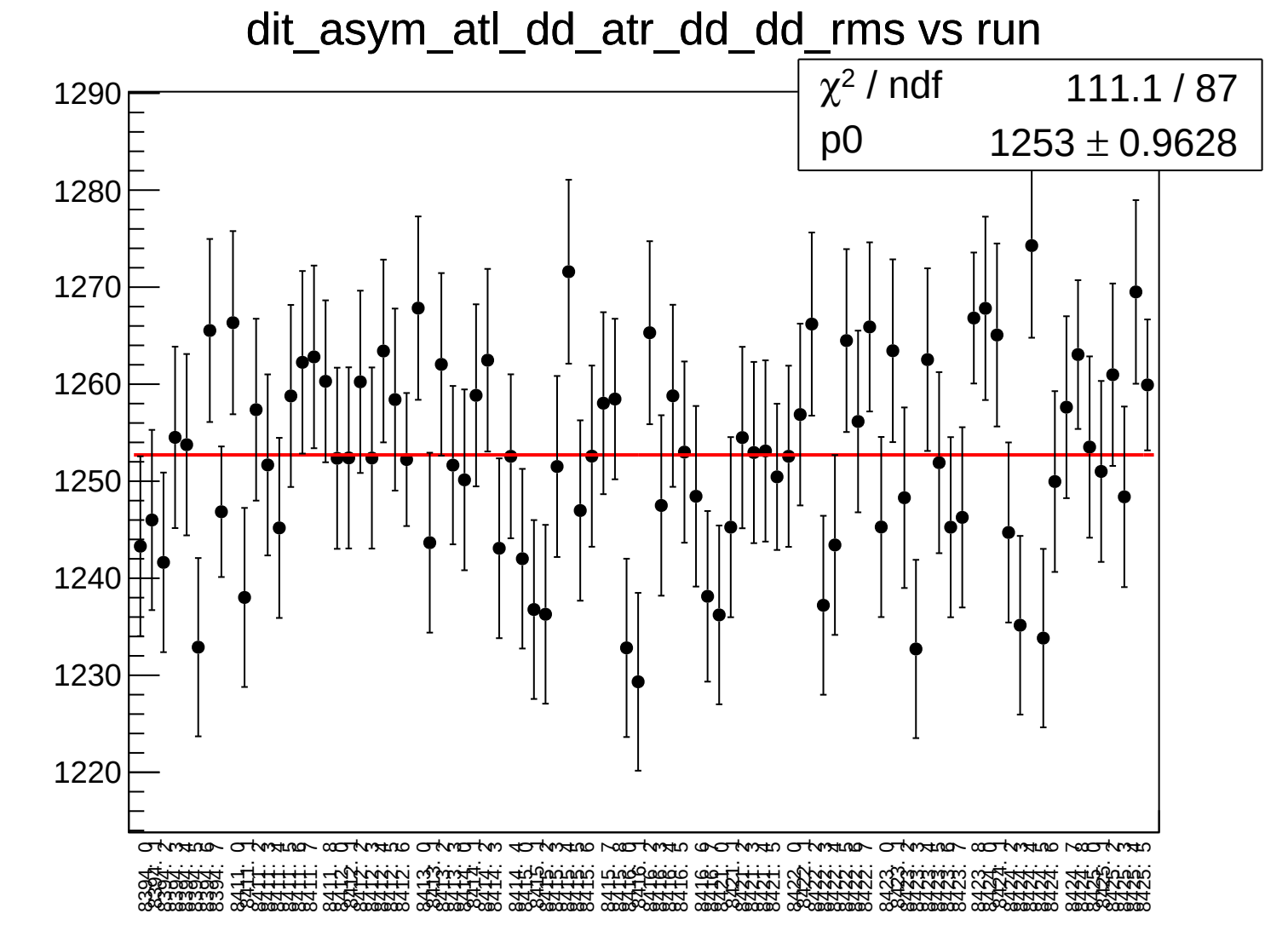

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 66.24 / 87
p0 6162 ± 1547
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −336.8
Std Dev 0
3
2
1
0
−1
−2

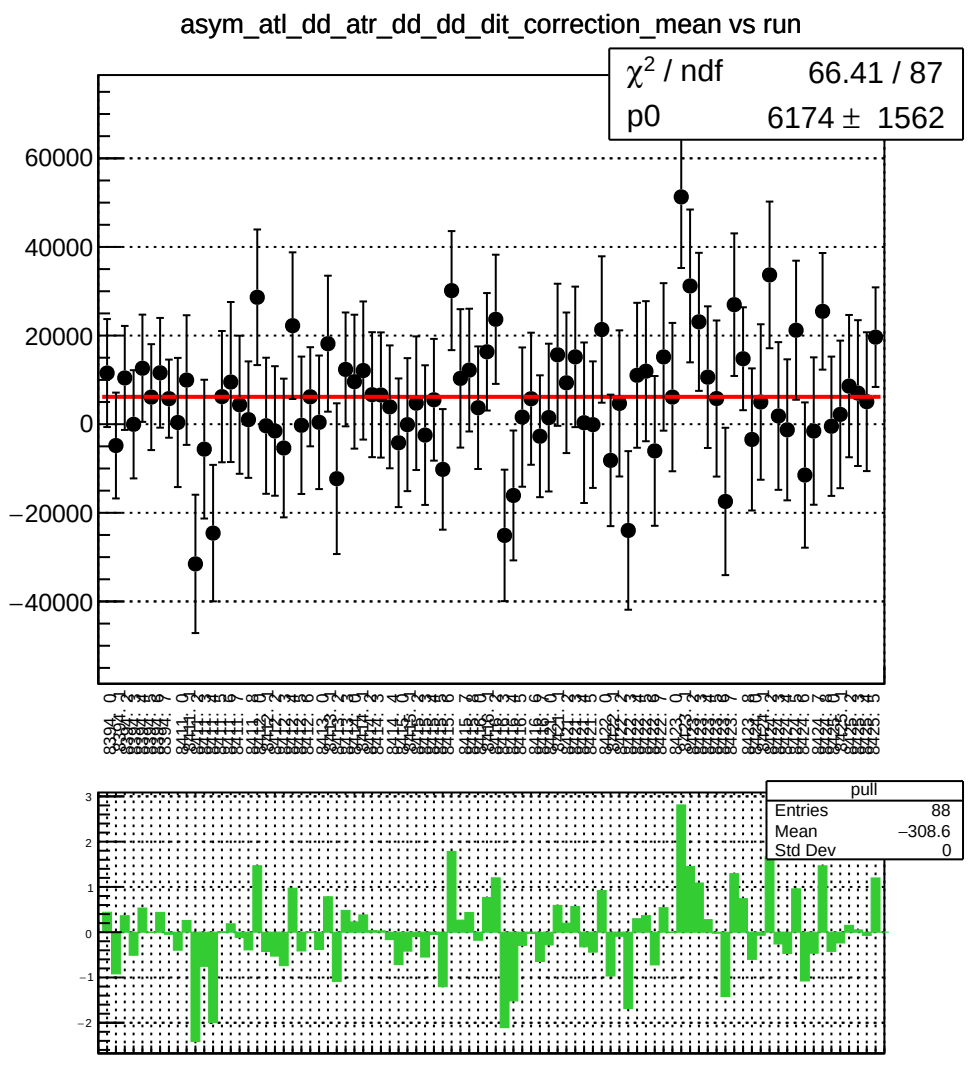

pull1D
Entries 88
Mean −0.01046
Std Dev 0.8675
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

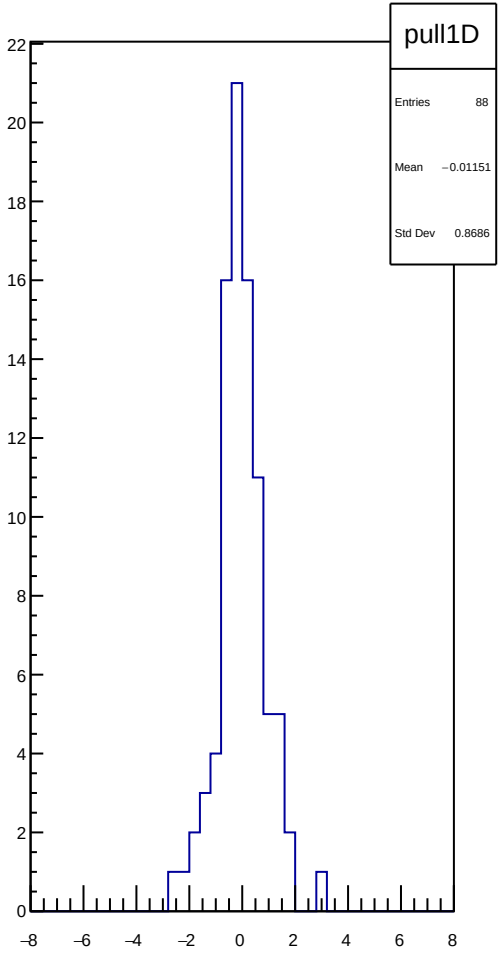

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.702e+04 / 87
p0 1416 ± 1.094
1700
1600
1500
1400
1300
1200
1100

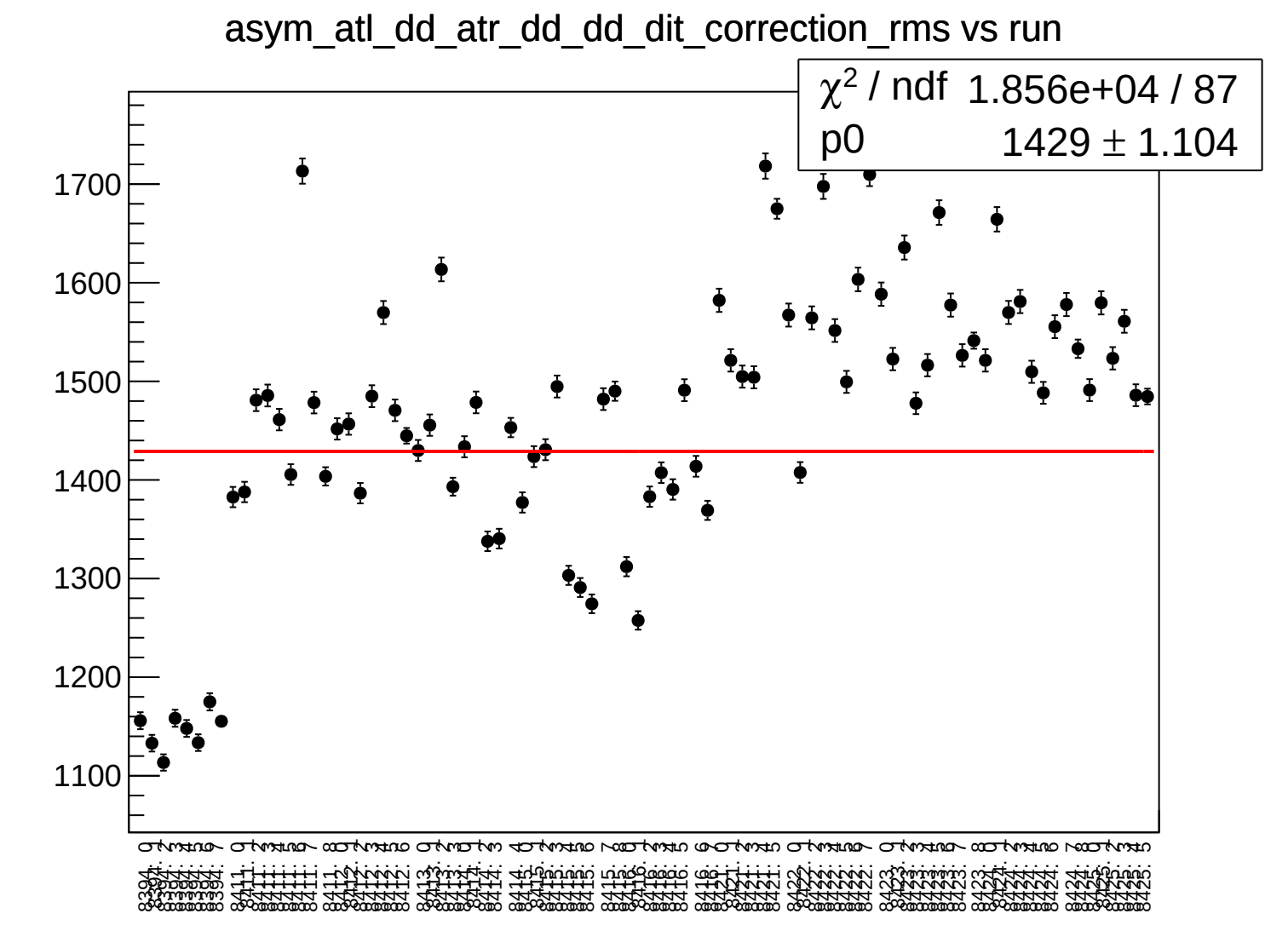

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 79.72 / 87
p0 207.9 ± 1362
pull
Entries 88
Mean 384.4
Std Dev 0

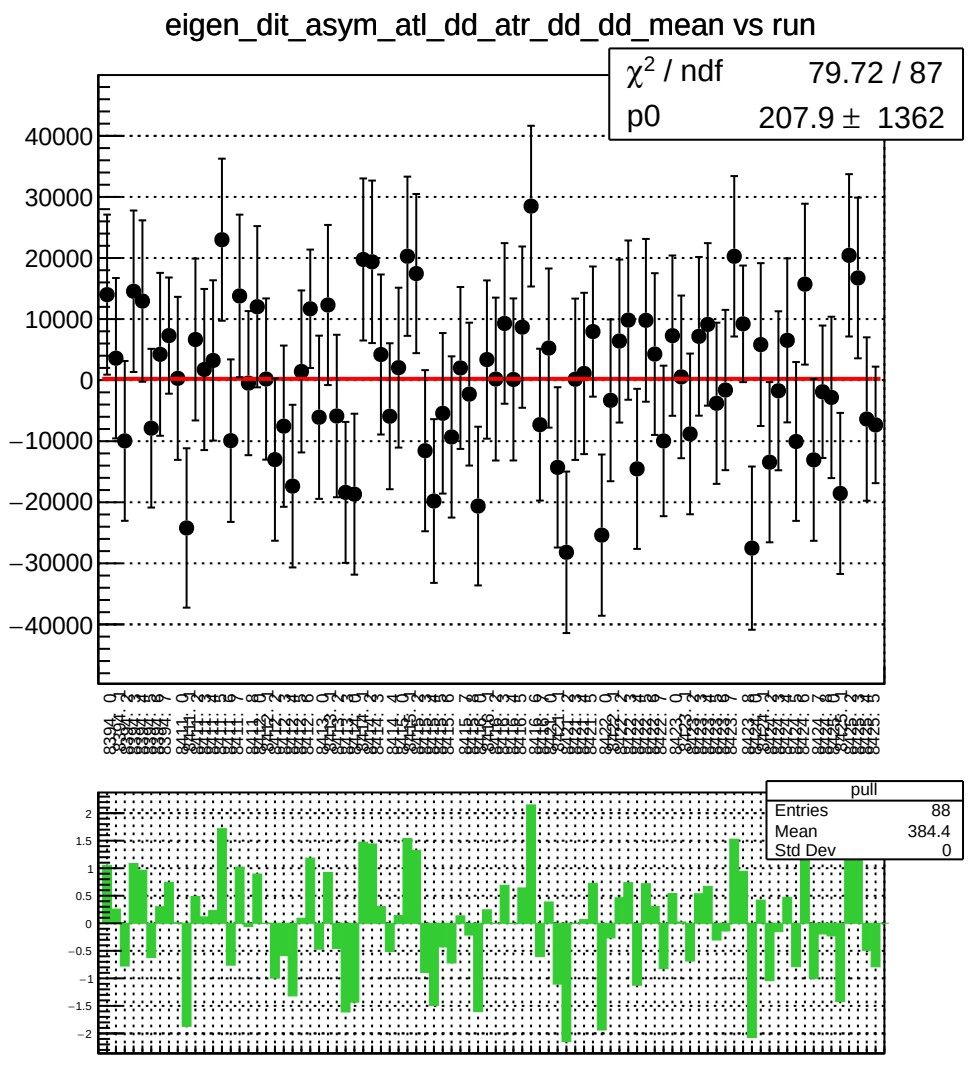

pull1D
Entries 88
Mean −0.005714
Std Dev 0.9517

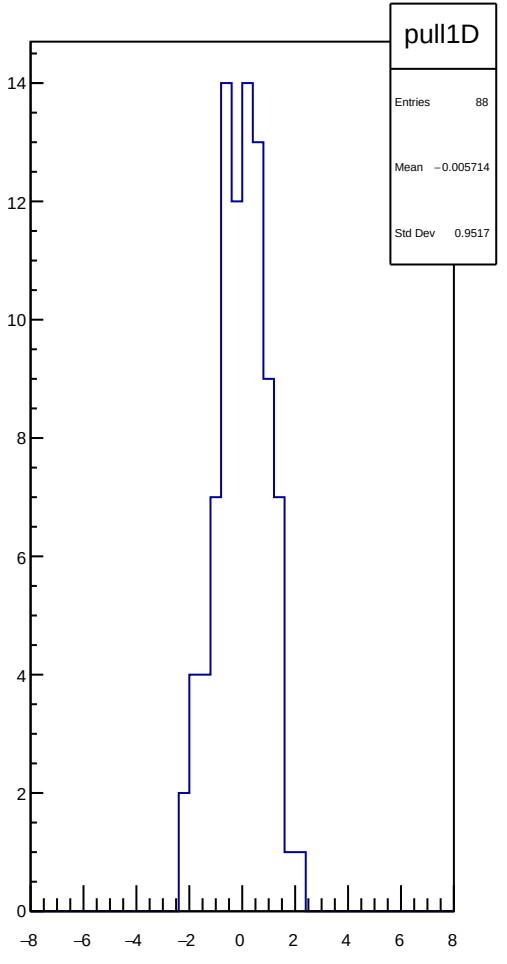

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 111.1 / 87
p0 1253 ± 0.9628
1290
1280
1270
1260
1250
1240
1230
1220

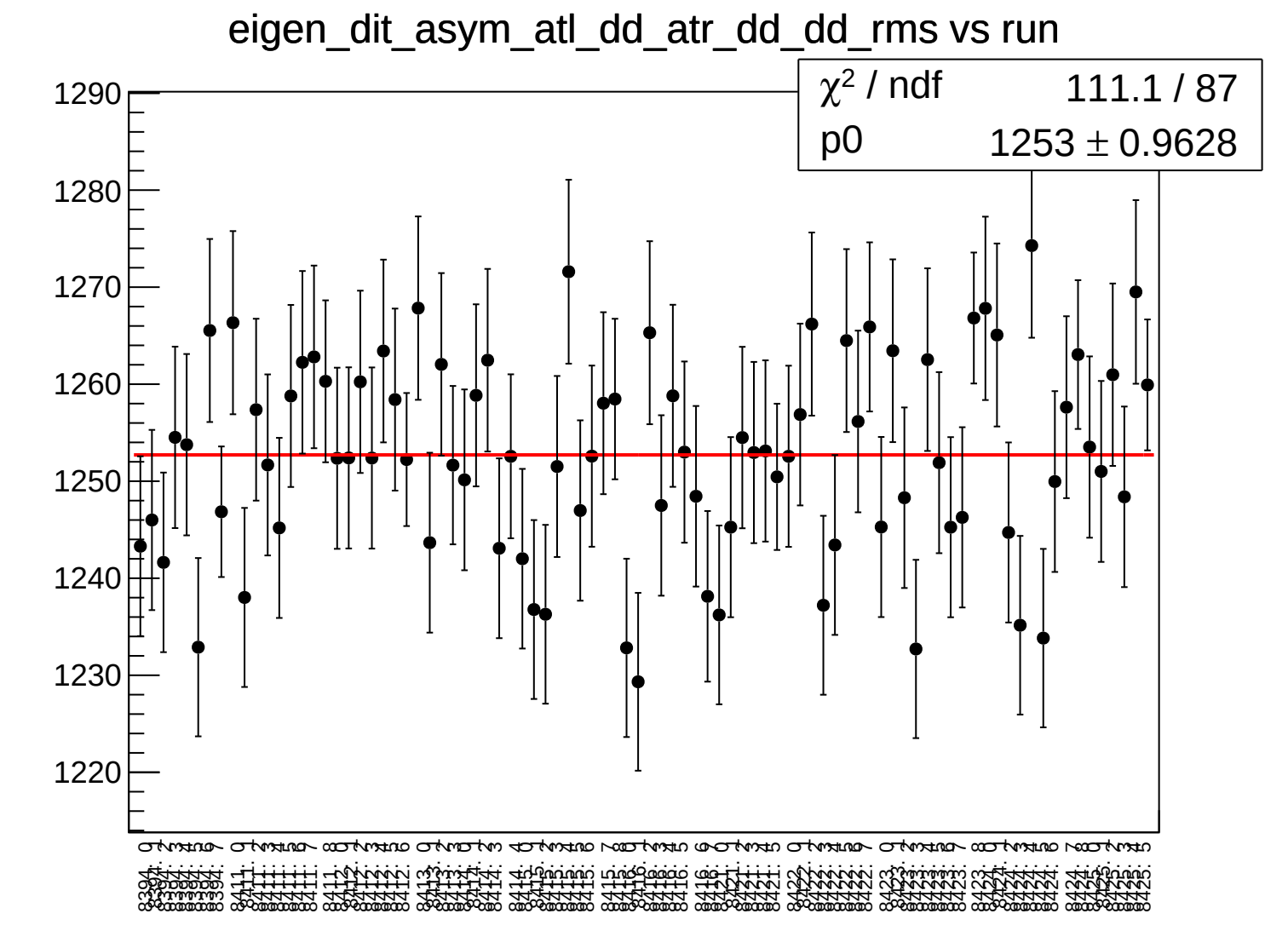

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 66.41 / 87
p0 6174 ± 1562
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −308.6
Std Dev 0
3
2
1
0
−1
−2

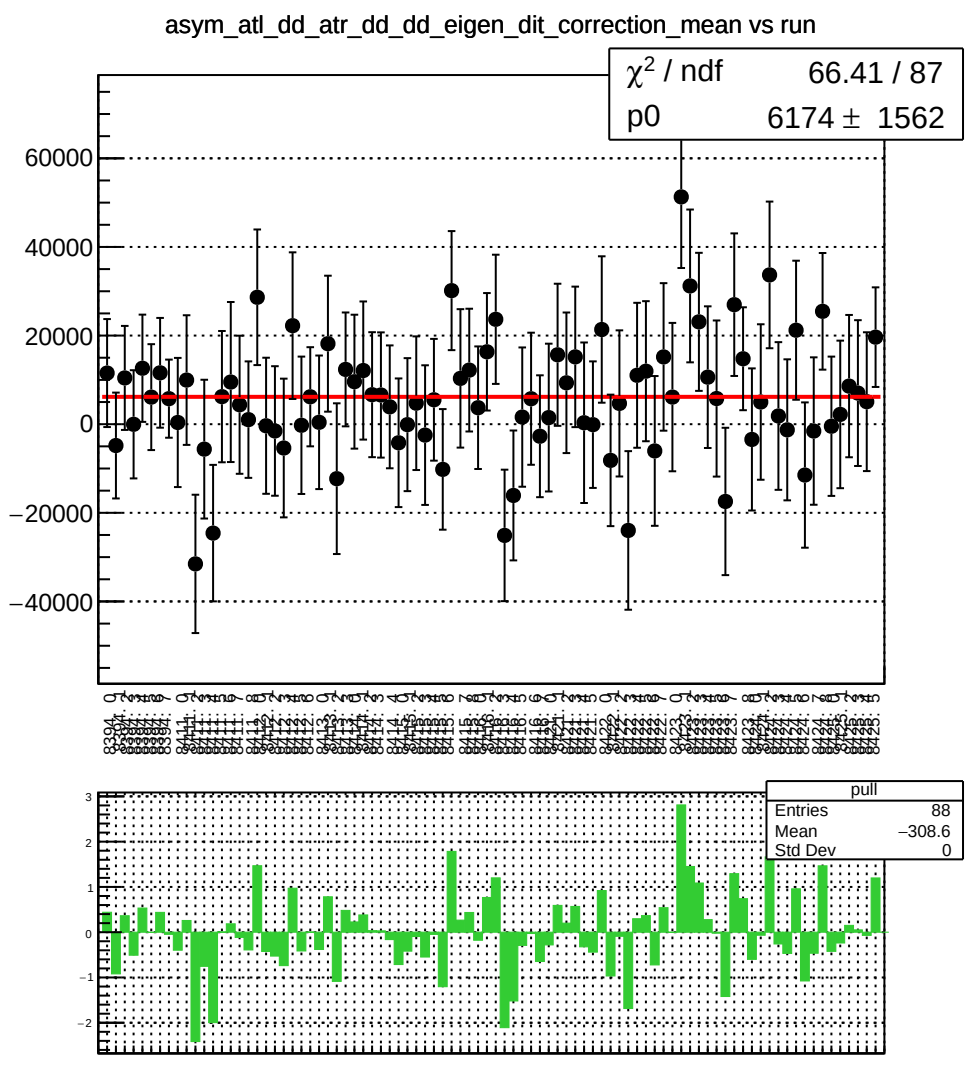

pull1D
Entries 88
Mean −0.01151
Std Dev 0.8686
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

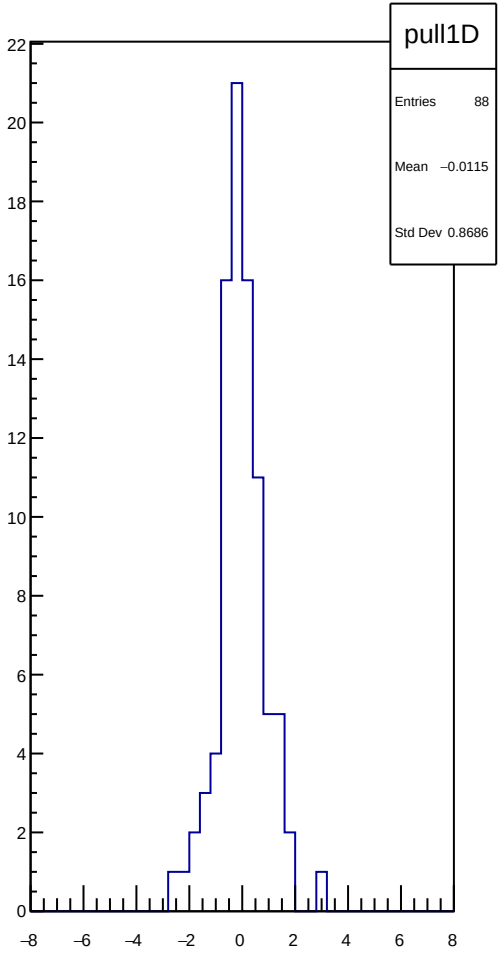

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.856e+04 / 87
p0 1429 ± 1.104
1700
1600
1500
1400
1300
1200
1100

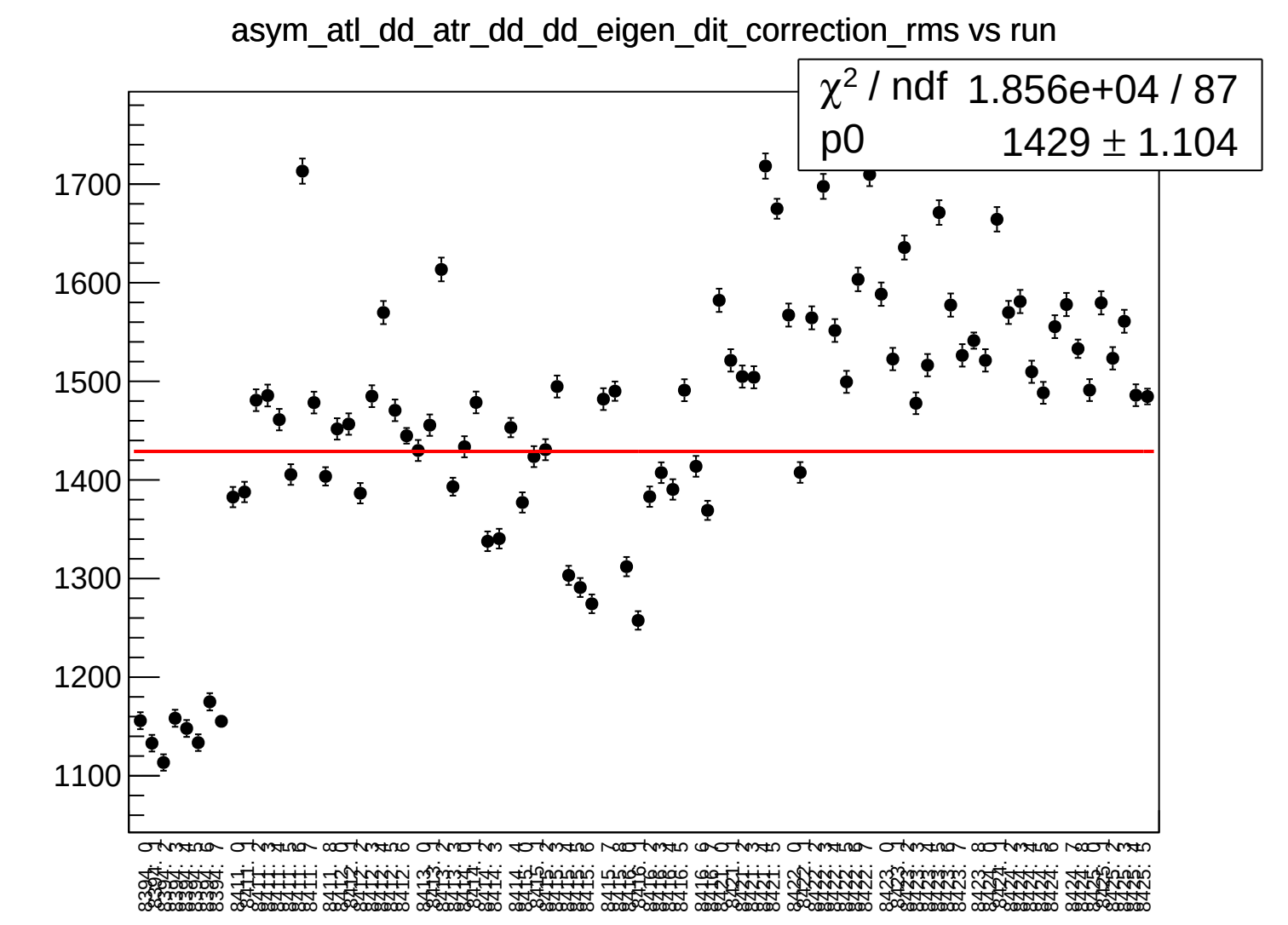

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 79.72 / 87
p0 207.9 ± 1362
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 384.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

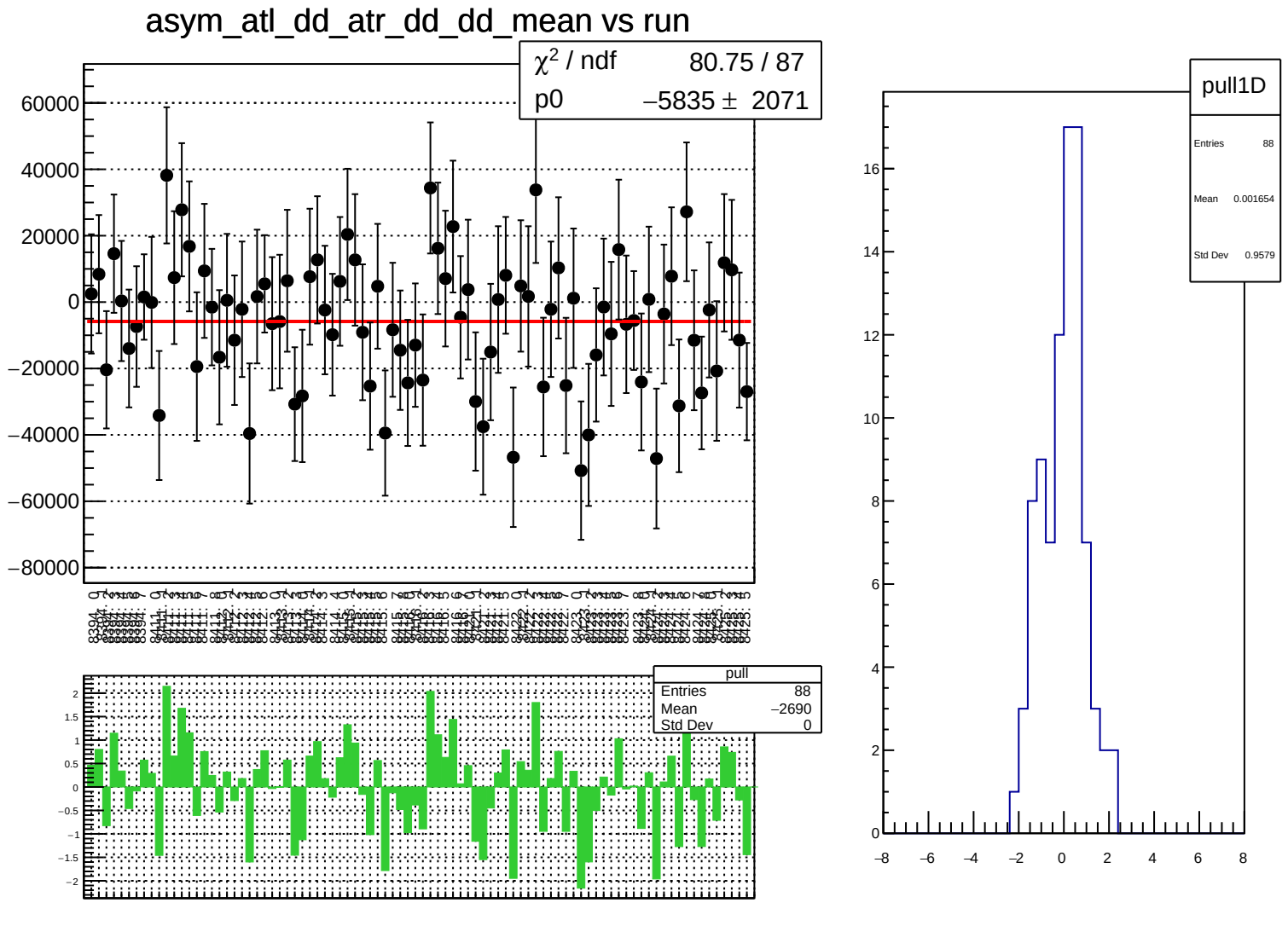

pull1D
Entries 88
Mean −0.005714
Std Dev 0.9517
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

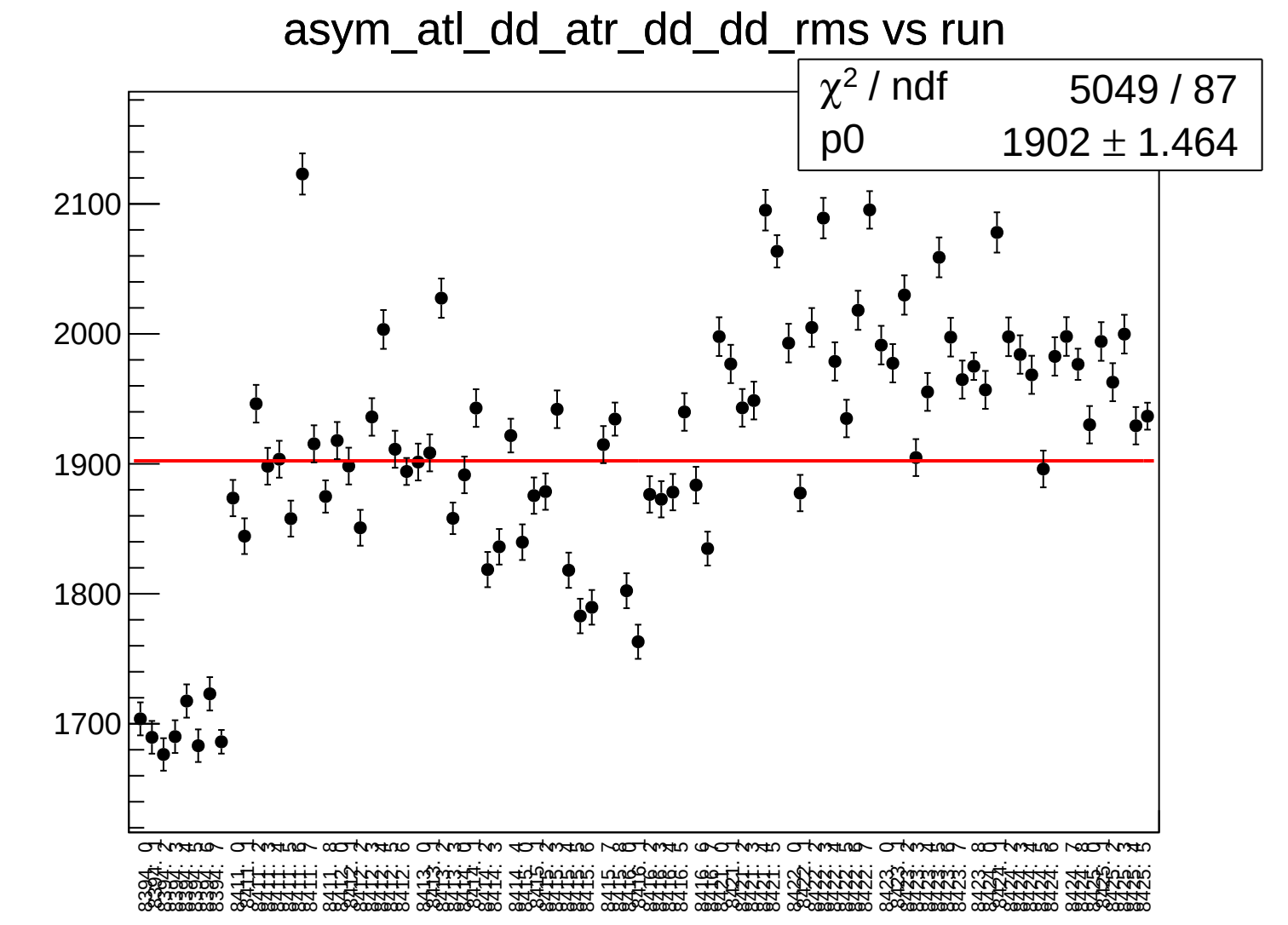

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 111.1 / 87
p0 1253 ± 0.9628
1290
1280
1270
1260
1250
1240
1230
1220

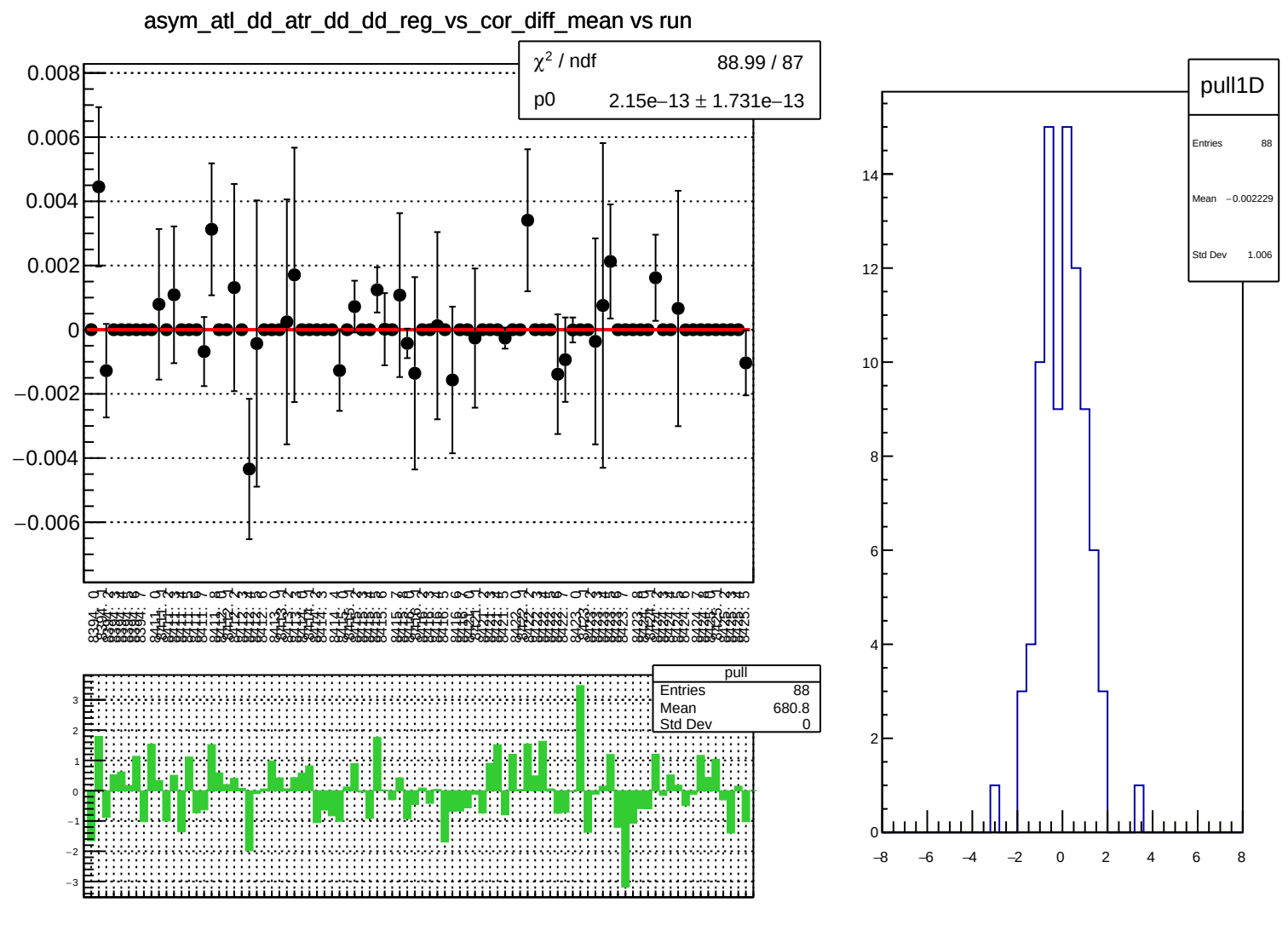

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 66.41 / 87
p0 6174 ± 1562
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −308.6
Std Dev 0
3
2
1
0
−1
−2

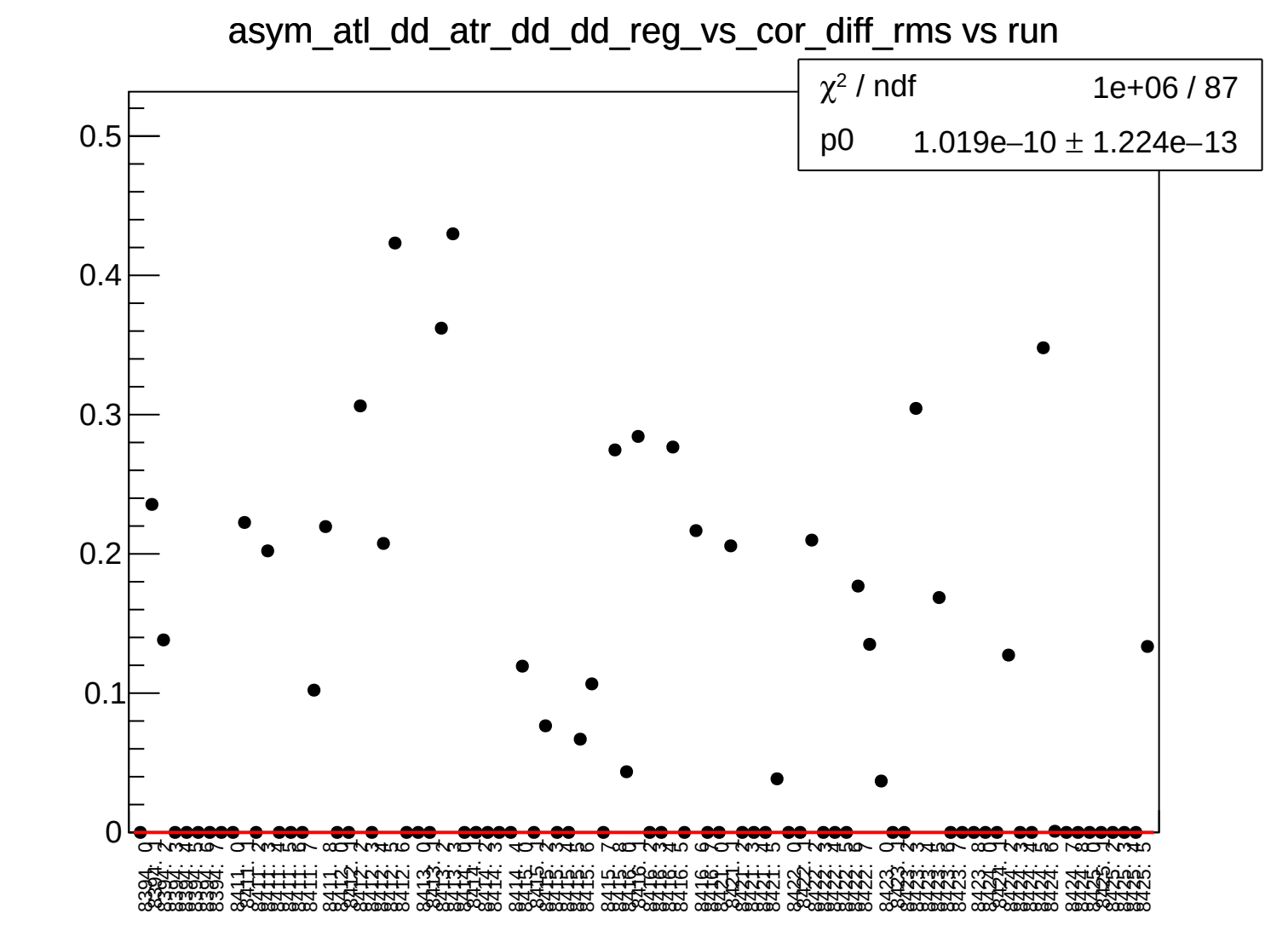

pull1D
Entries 88
Mean −0.0115
Std Dev 0.8686
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

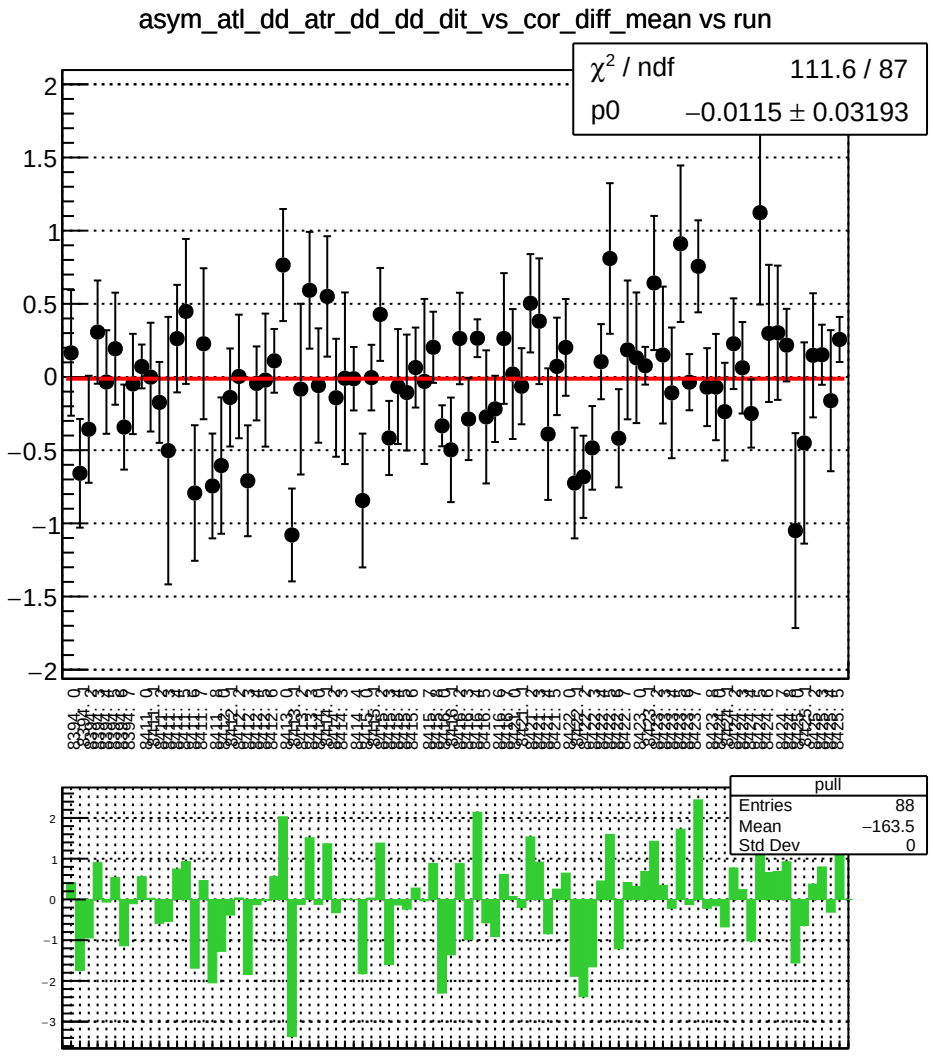

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.856e+04 / 87
p0 1429 ± 1.104
1700
1600
1500
1400
1300
1200
1100

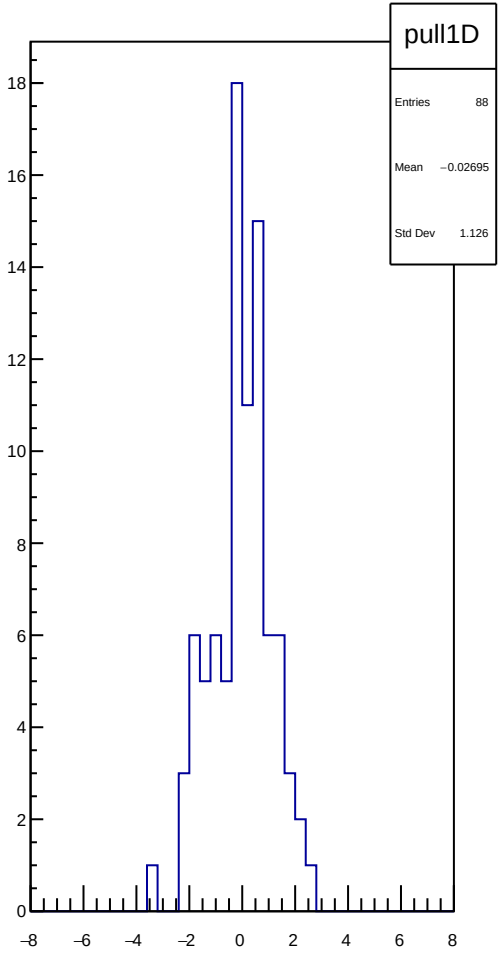

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 80.75 / 87
p0 −5835 ± 2071
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −2690
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean 0.001654
Std Dev 0.9579
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

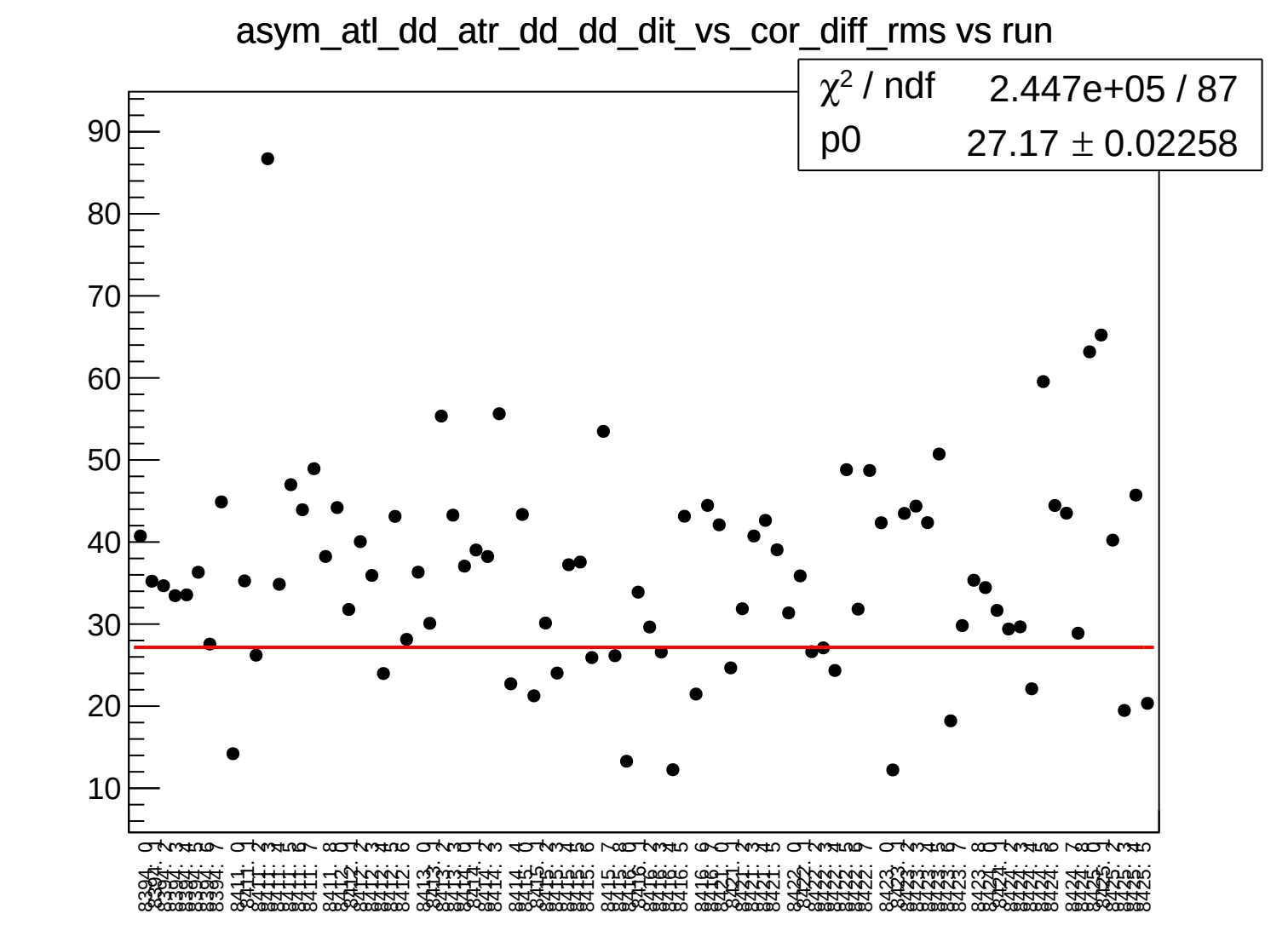

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 5049 / 87
p0 1902 ± 1.464
2100
2000
1900
1800
1700

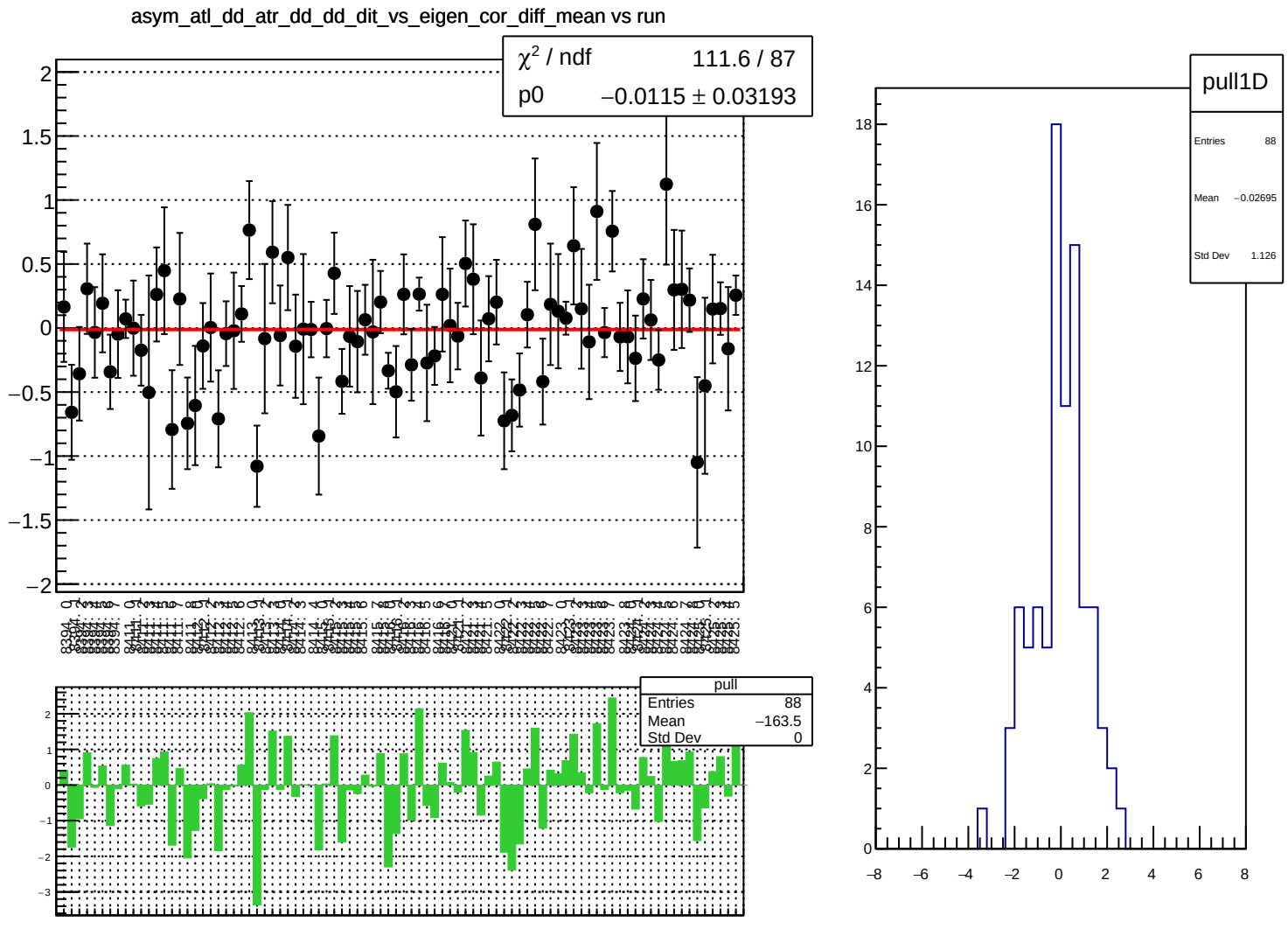

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.99 / 87
p0 2.15e−13 ± 1.731e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
pull
Entries 88
Mean 680.8
Std Dev 0
pull1D
Entries 88
Mean −0.002229
Std Dev 1.006

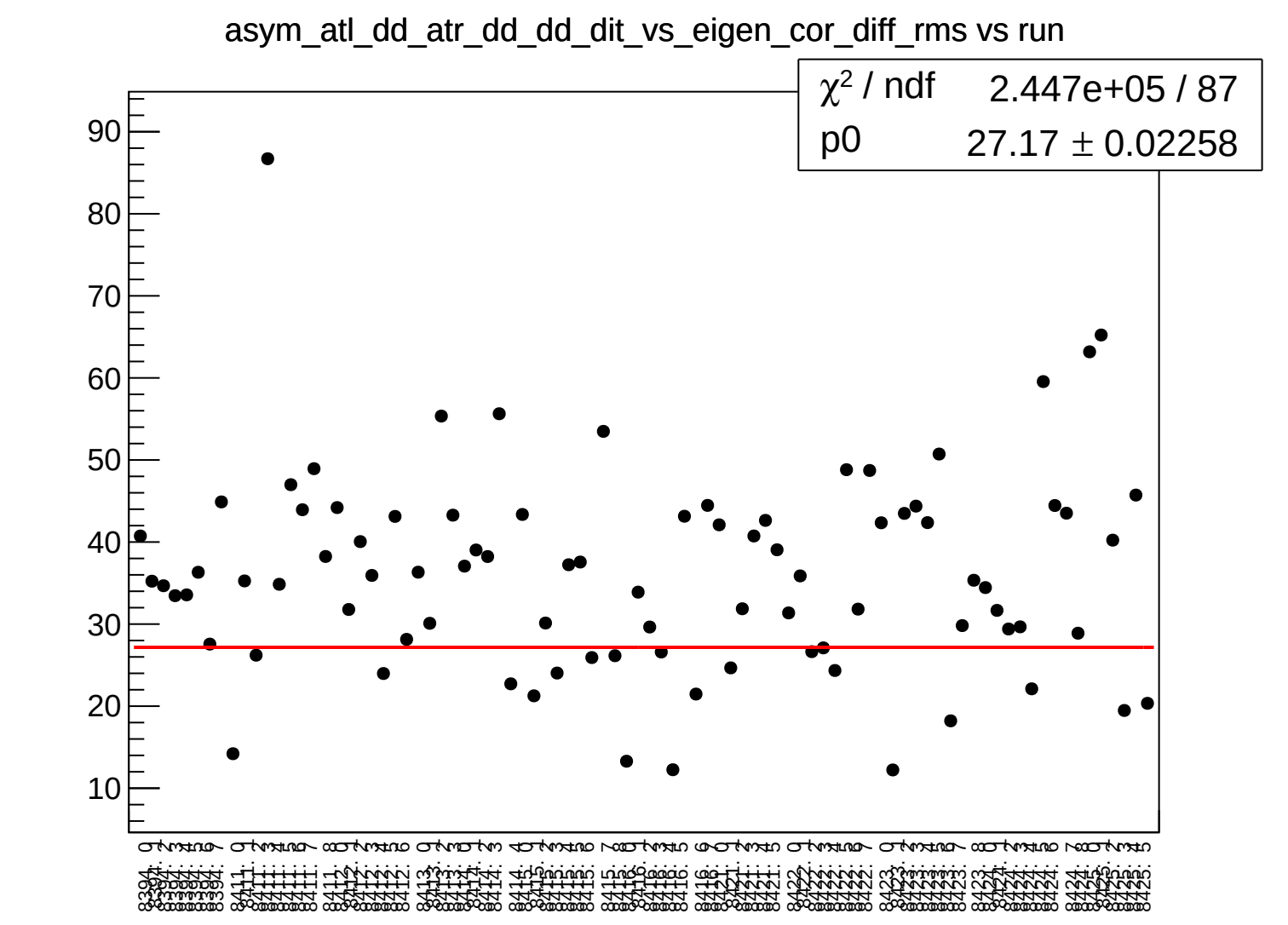

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1e+06 / 87
p0 1.019e−10 ± 1.224e−13
0.5
0.4
0.3
0.2
0.1
0

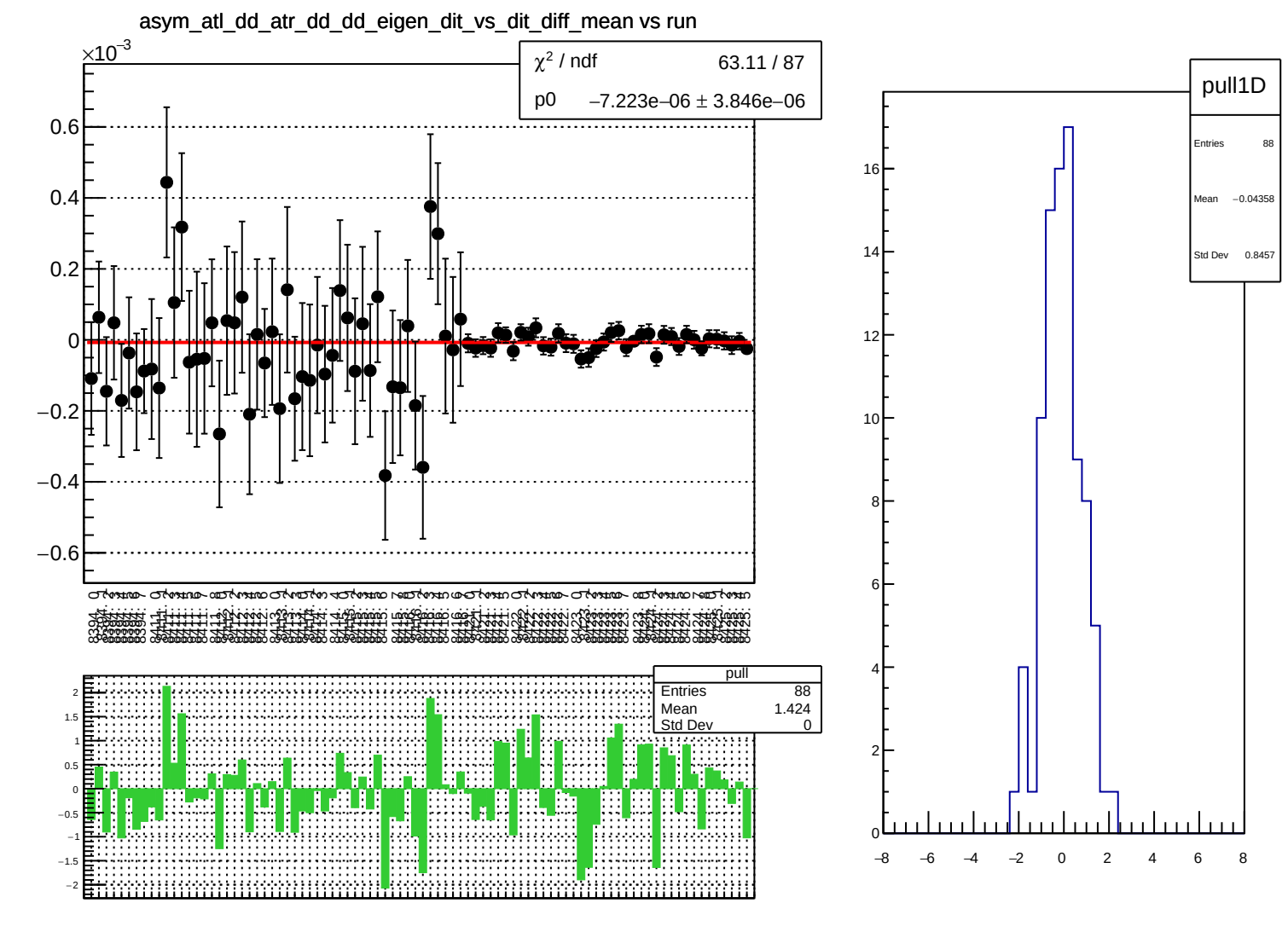

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 111.6 / 87
p0 −0.0115 ± 0.03193
pull
Entries 88
Mean −163.5
Std Dev 0

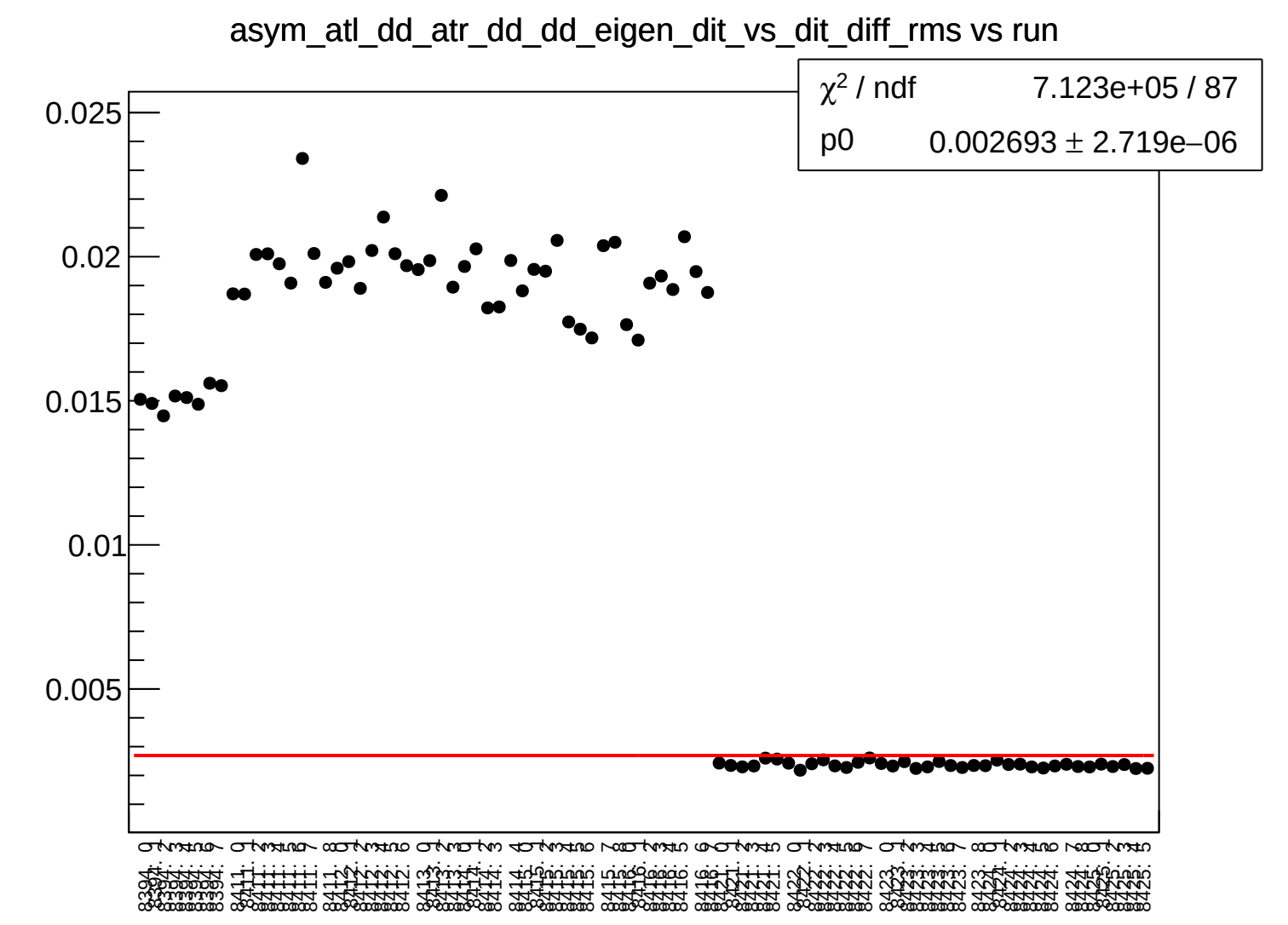

pull1D
Entries 88
Mean −0.02695
Std Dev 1.126

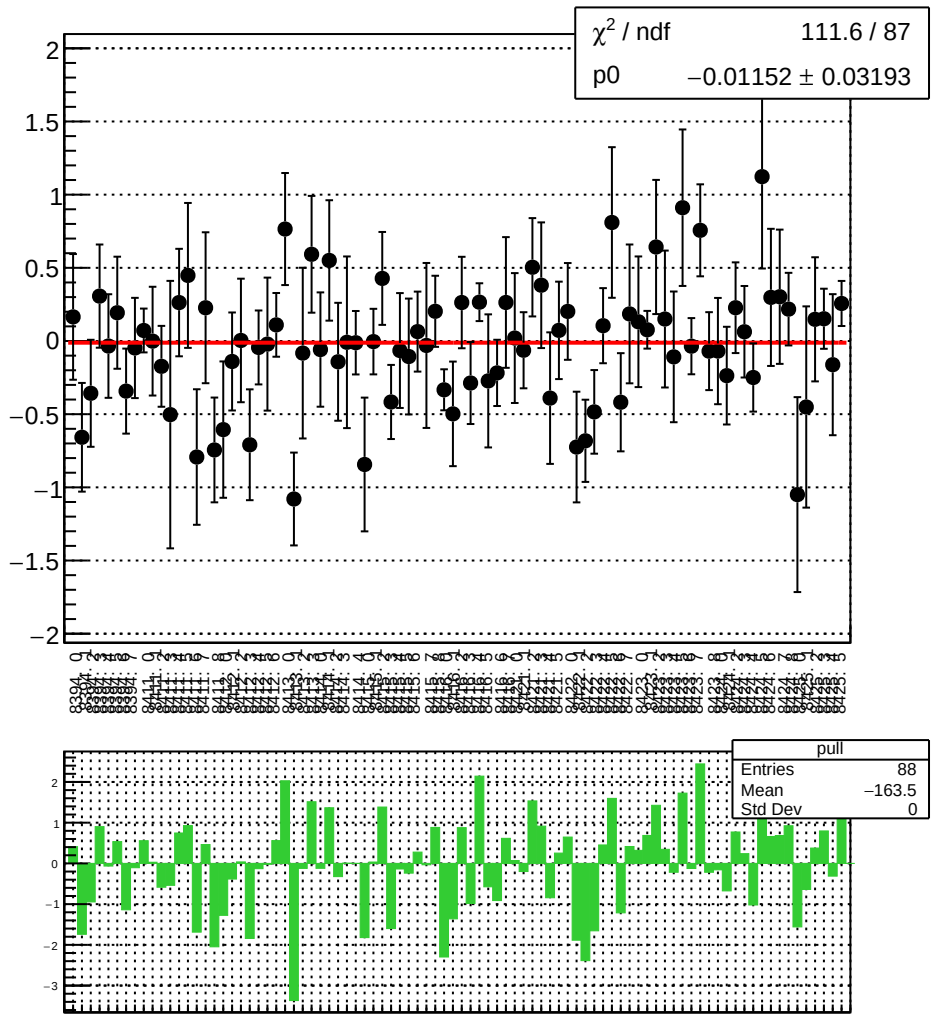

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.447e+05 / 87
p0 27.17 ± 0.02258
90
80
70
60
50
40
30
20
10

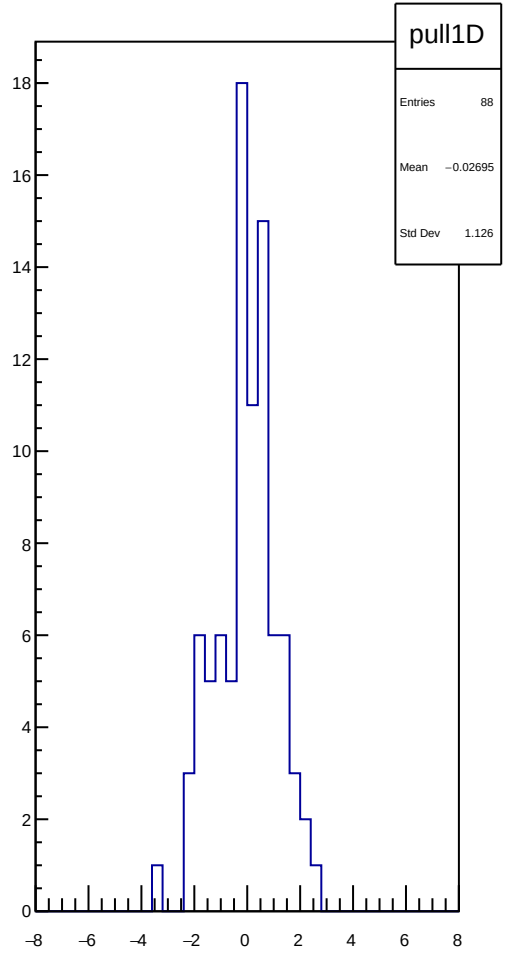

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.6 / 87
p0 −0.0115 ± 0.03193
pull
Entries 88
Mean −163.5
Std Dev 0
pull1D
Entries 88
Mean −0.02695
Std Dev 1.126

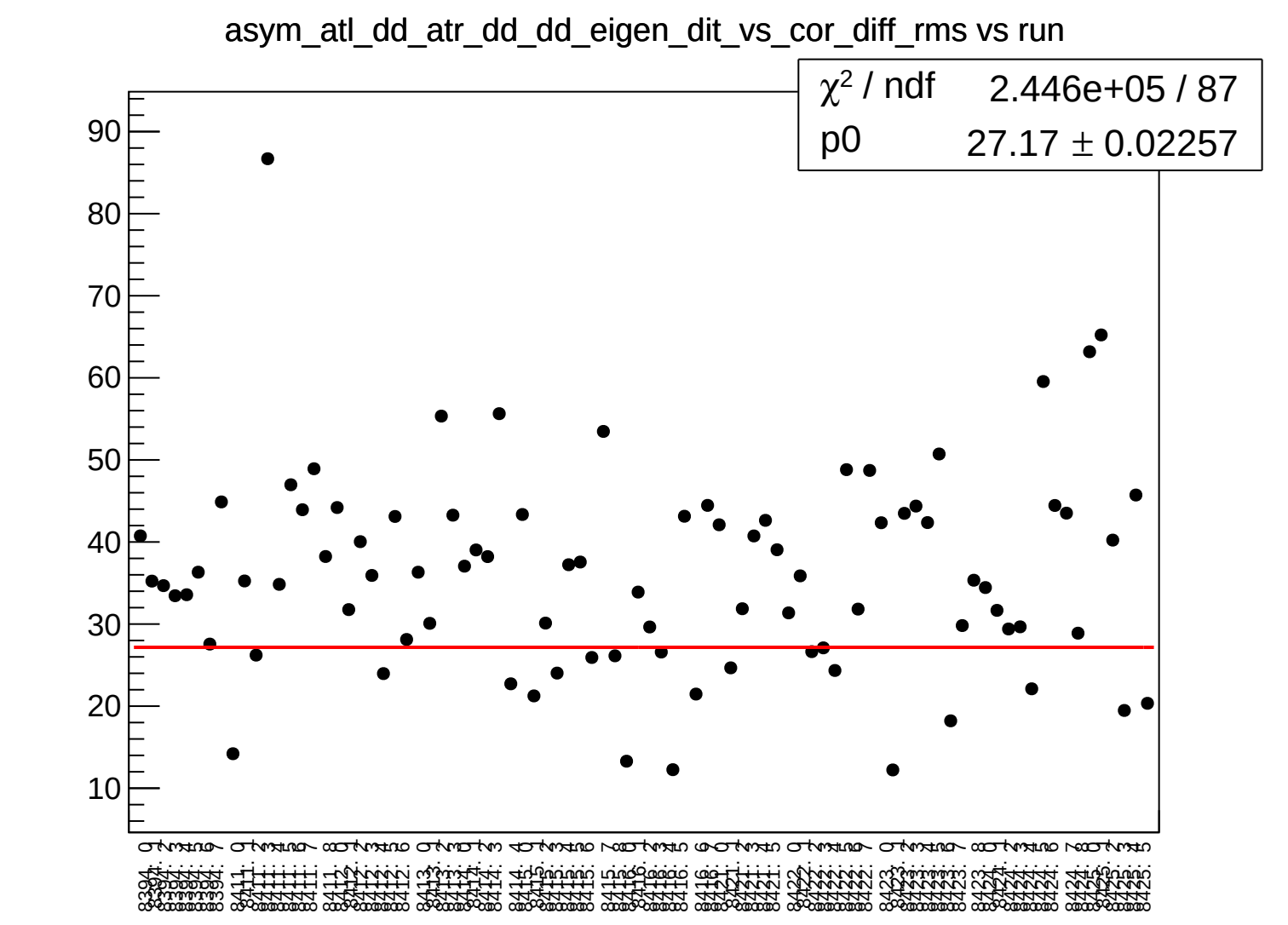

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.447e+05 / 87
p0 27.17 ± 0.02258
90
80
70
60
50
40
30
20
10

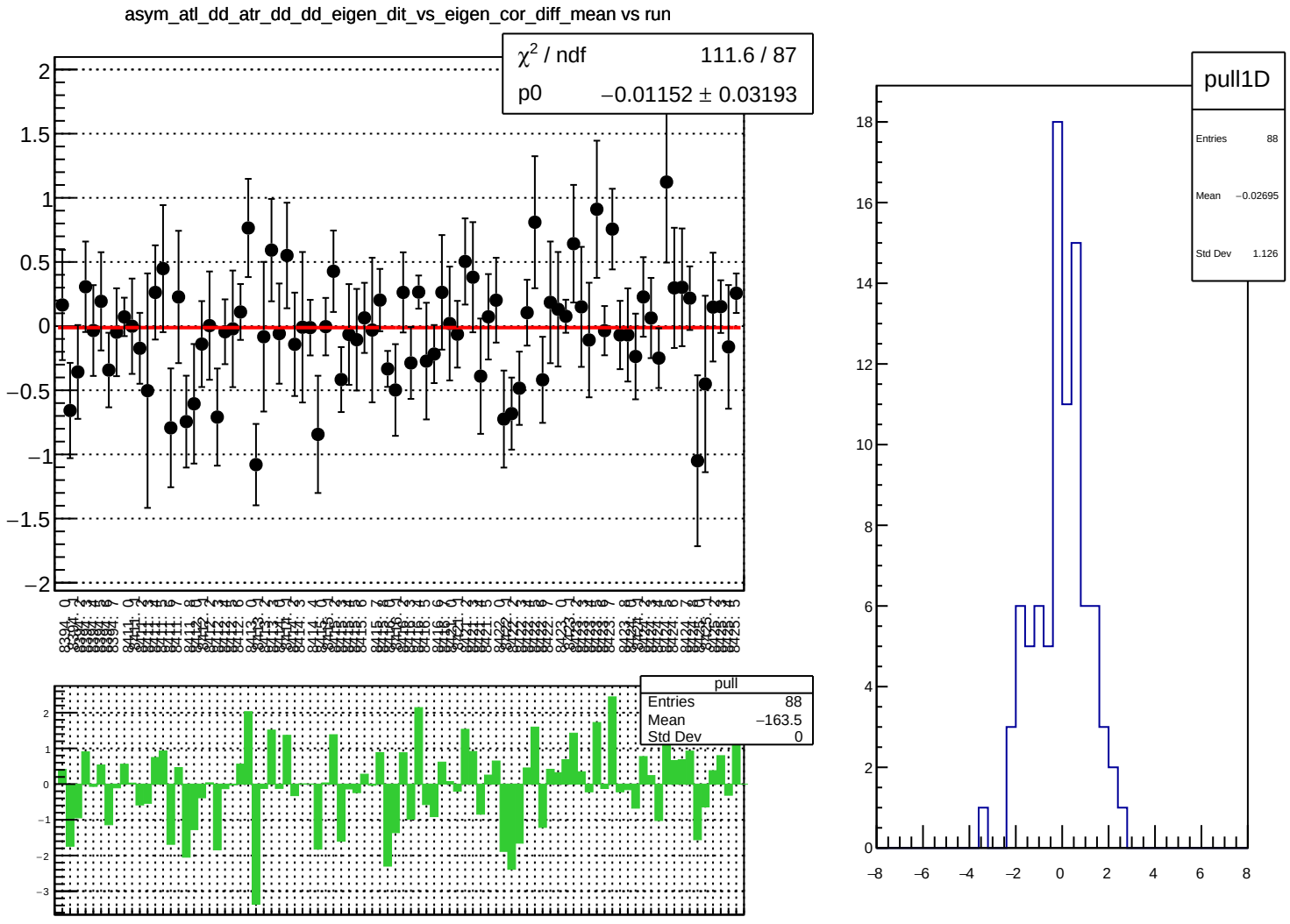

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 63.11 / 87
p0 −7.223e−06 ± 3.846e−06
pull
Entries 88
Mean 1.424
Std Dev 0
pull1D
Entries 88
Mean −0.04358
Std Dev 0.8457

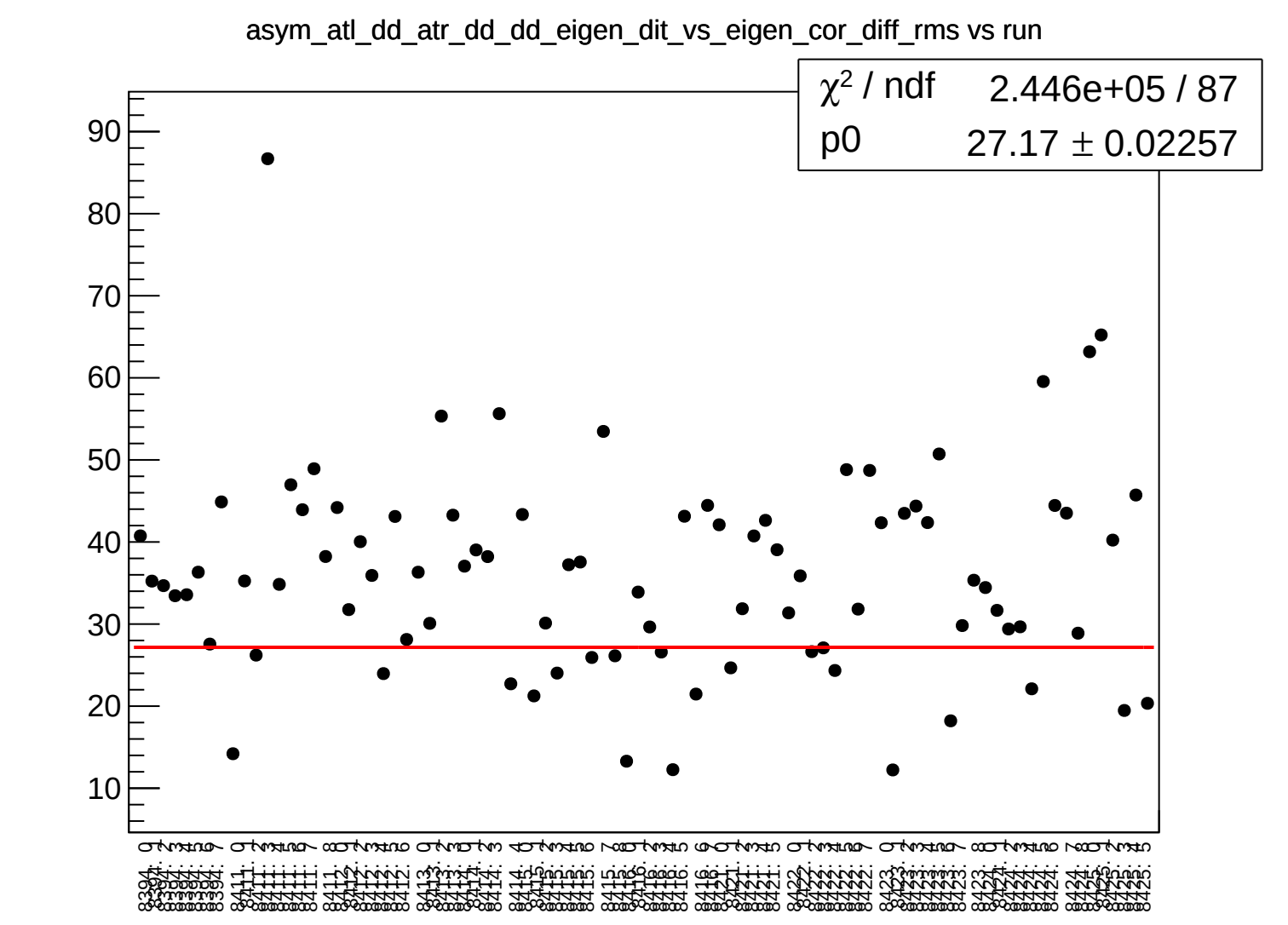

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.123e+05 / 87
p0 0.002693 ± 2.719e−06
0.025
0.02
0.015
0.01
0.005

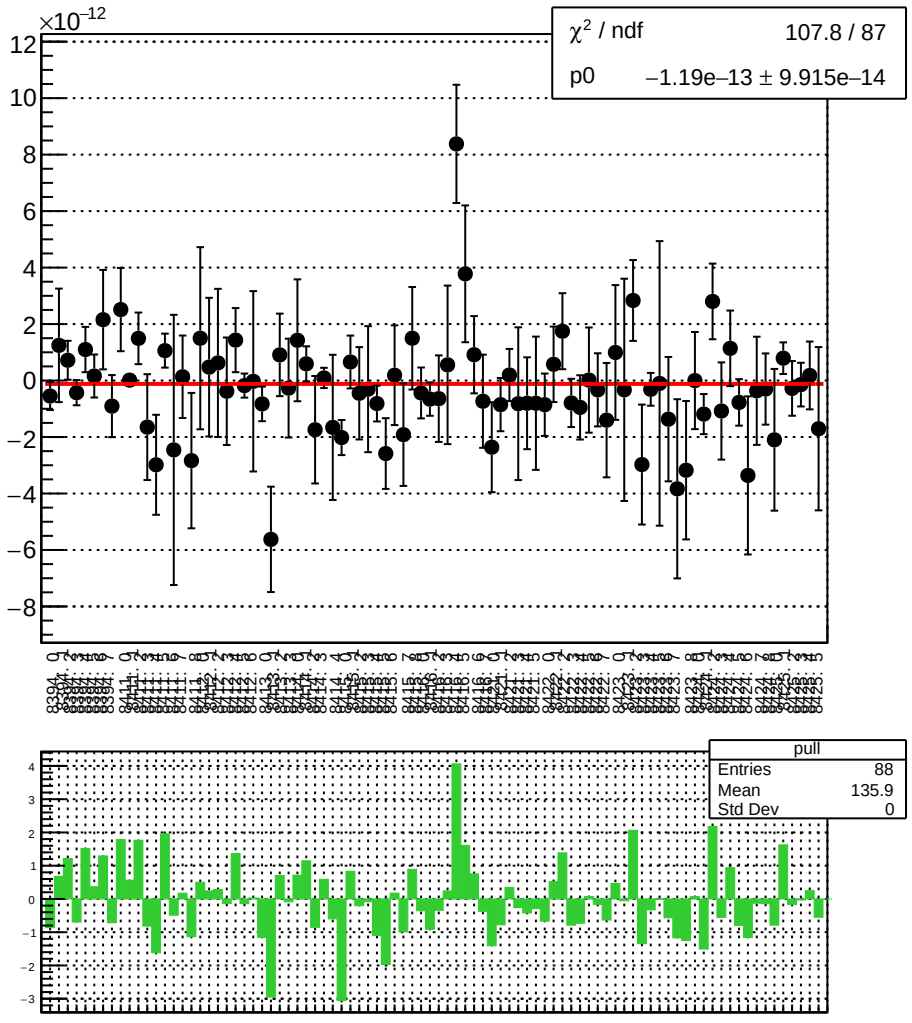

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 111.6 / 87
p0 −0.01152 ± 0.03193
pull
Entries 88
Mean −163.5
Std Dev 0

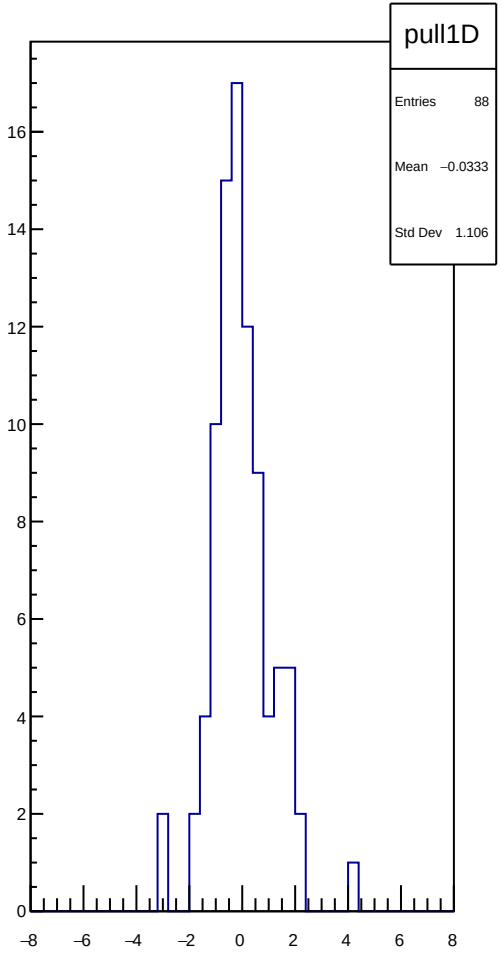

pull1D
Entries 88
Mean −0.02695
Std Dev 1.126

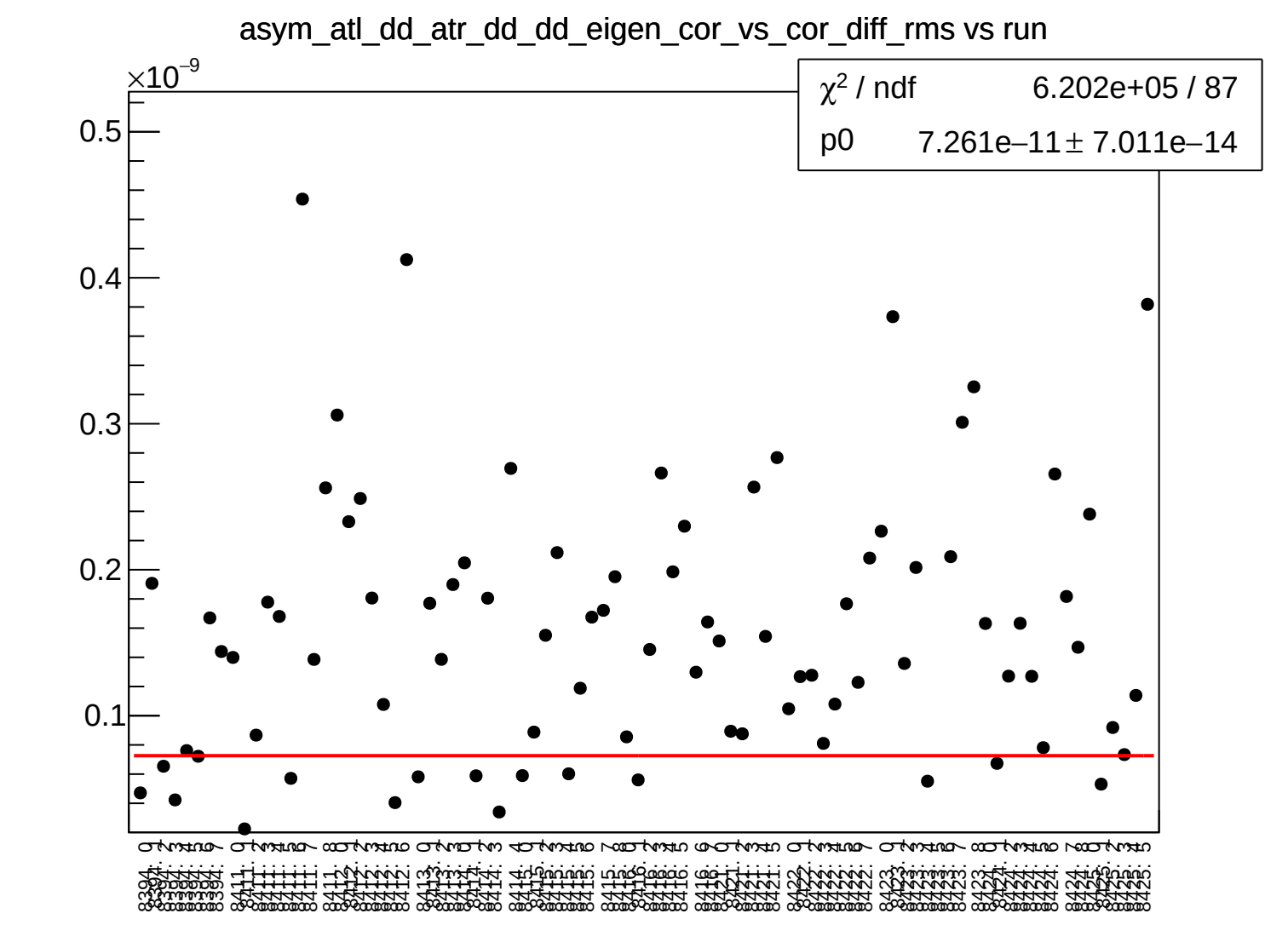

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.446e+05 / 87
p0 27.17 ± 0.02257
90
80
70
60
50
40
30
20
10

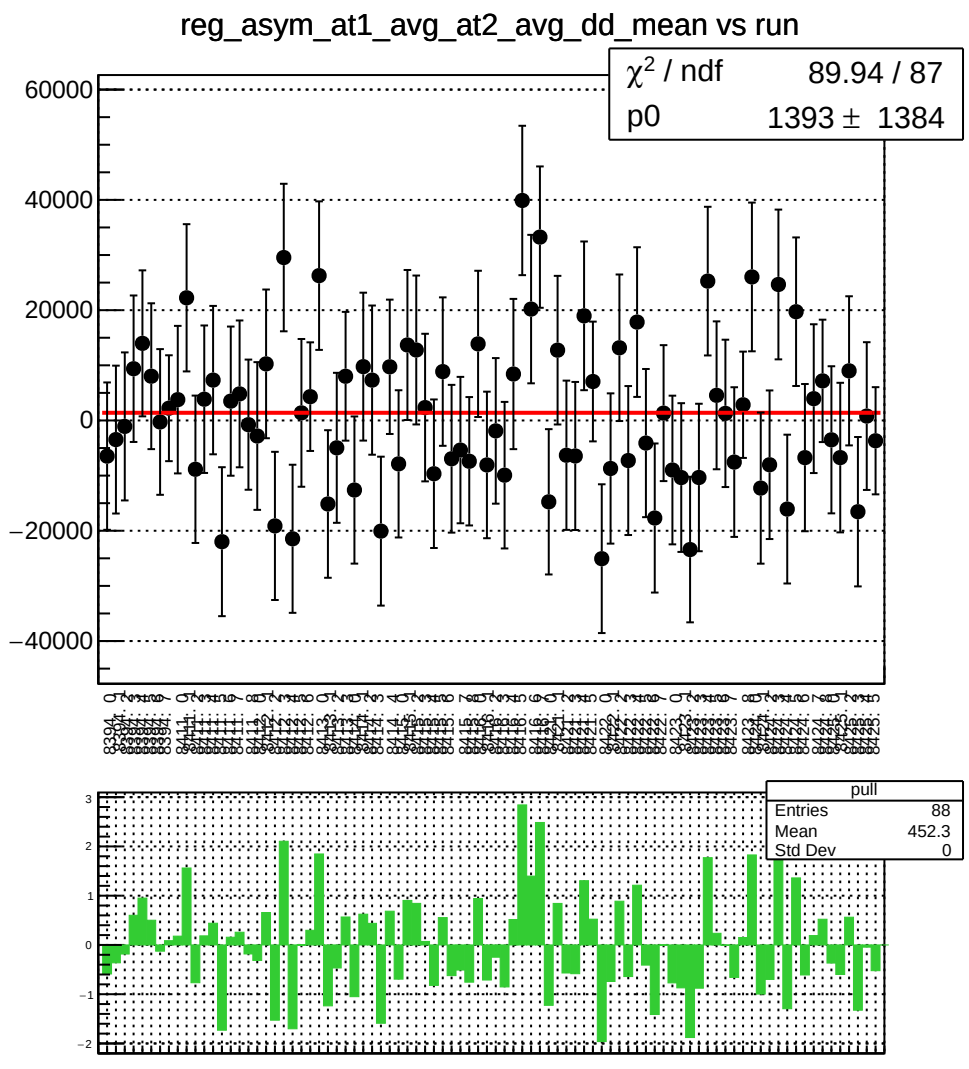

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.6 / 87
p0 −0.01152 ± 0.03193
pull
Entries 88
Mean −163.5
Std Dev 0
pull1D
Entries 88
Mean −0.02695
Std Dev 1.126

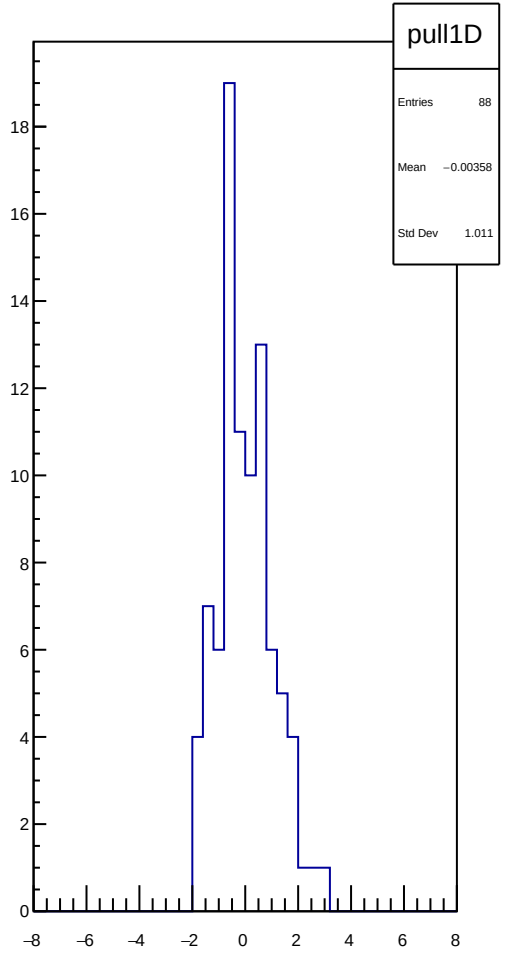

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.446e+05 / 87
p0 27.17 ± 0.02257
90
80
70
60
50
40
30
20
10

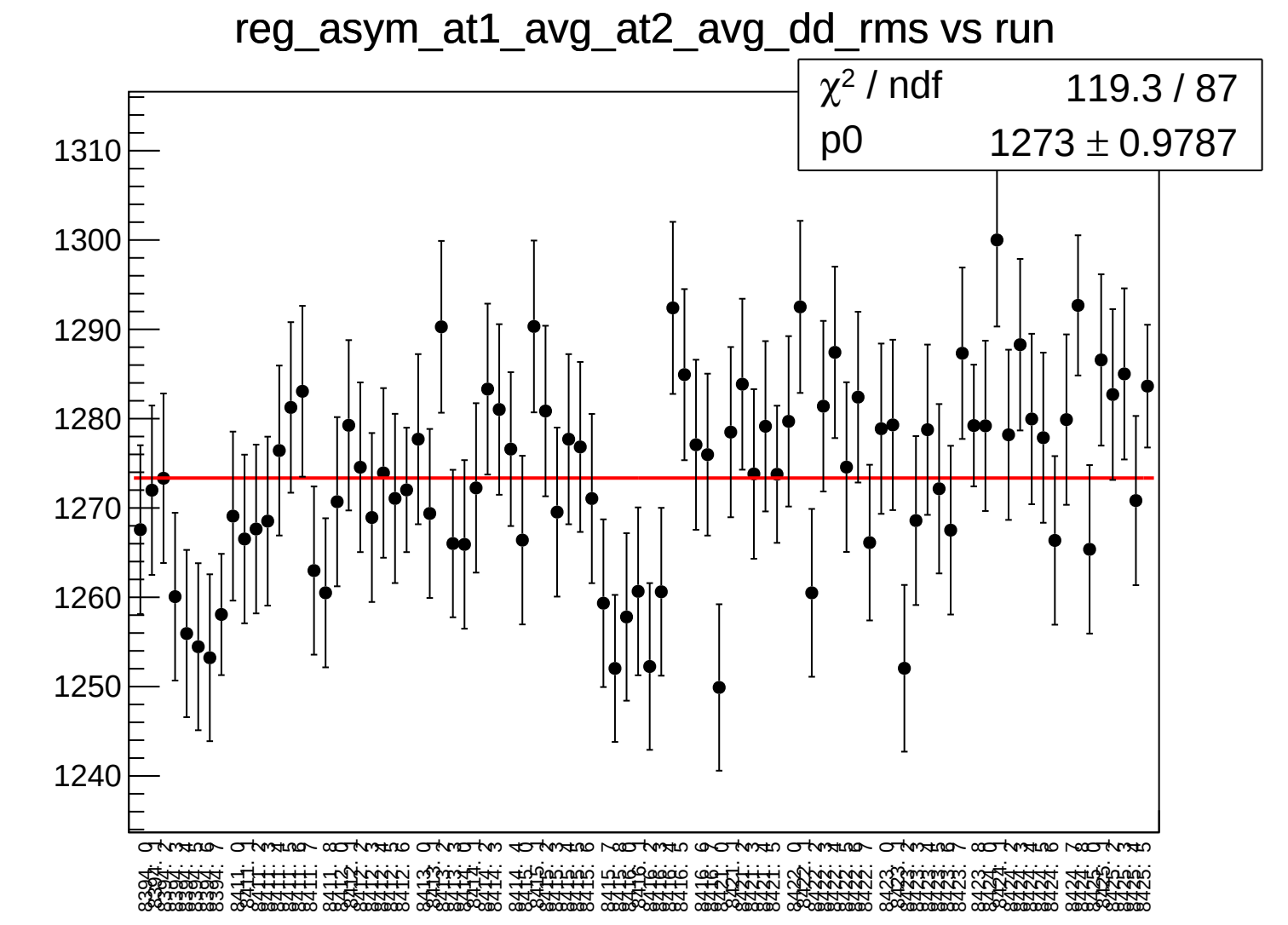

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 107.8 / 87
p0 −1.19e−13 ± 9.915e−14
pull
Entries 88
Mean 135.9
Std Dev 0

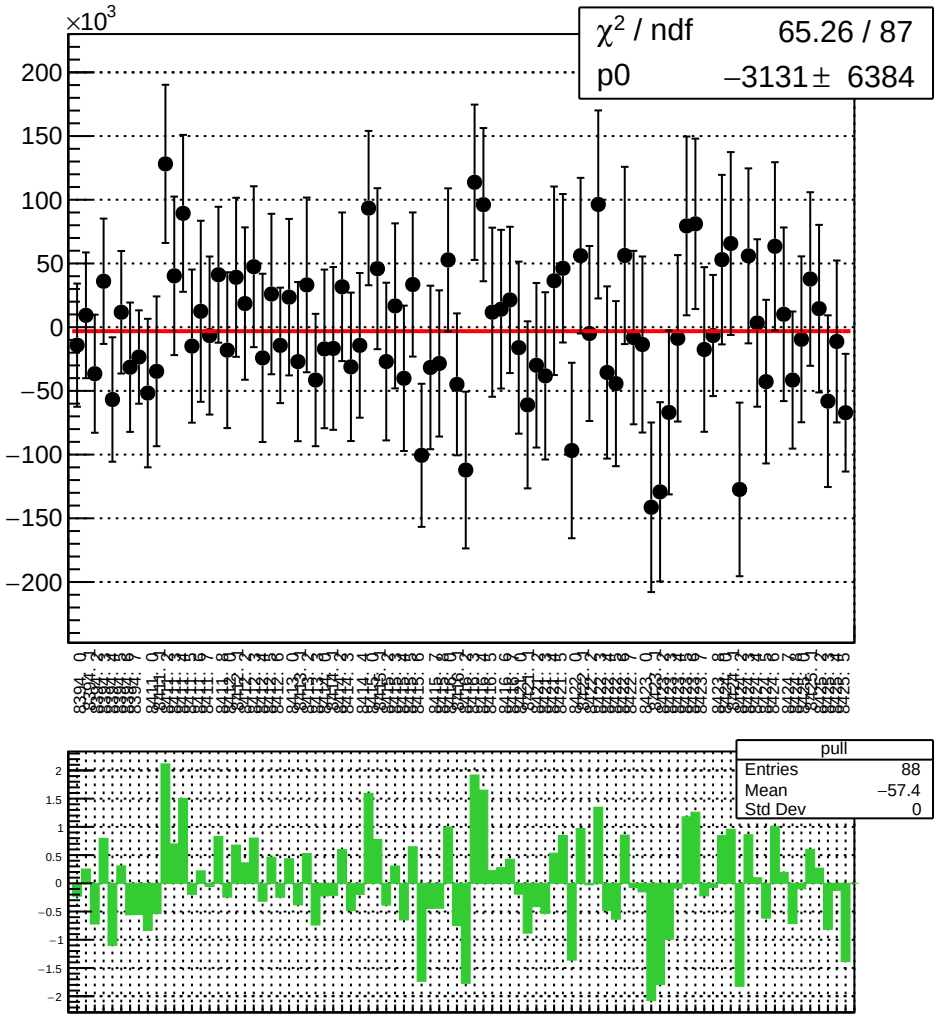

pull1D
Entries 88
Mean −0.0333
Std Dev 1.106

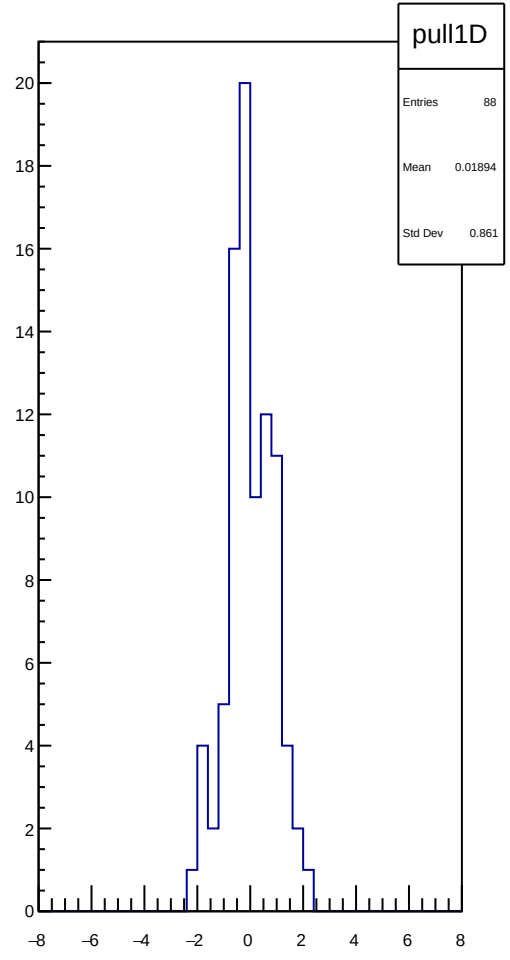

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.202e+05 / 87
p0 7.261e−11 ± 7.011e−14
0.5
0.4
0.3
0.2
0.1

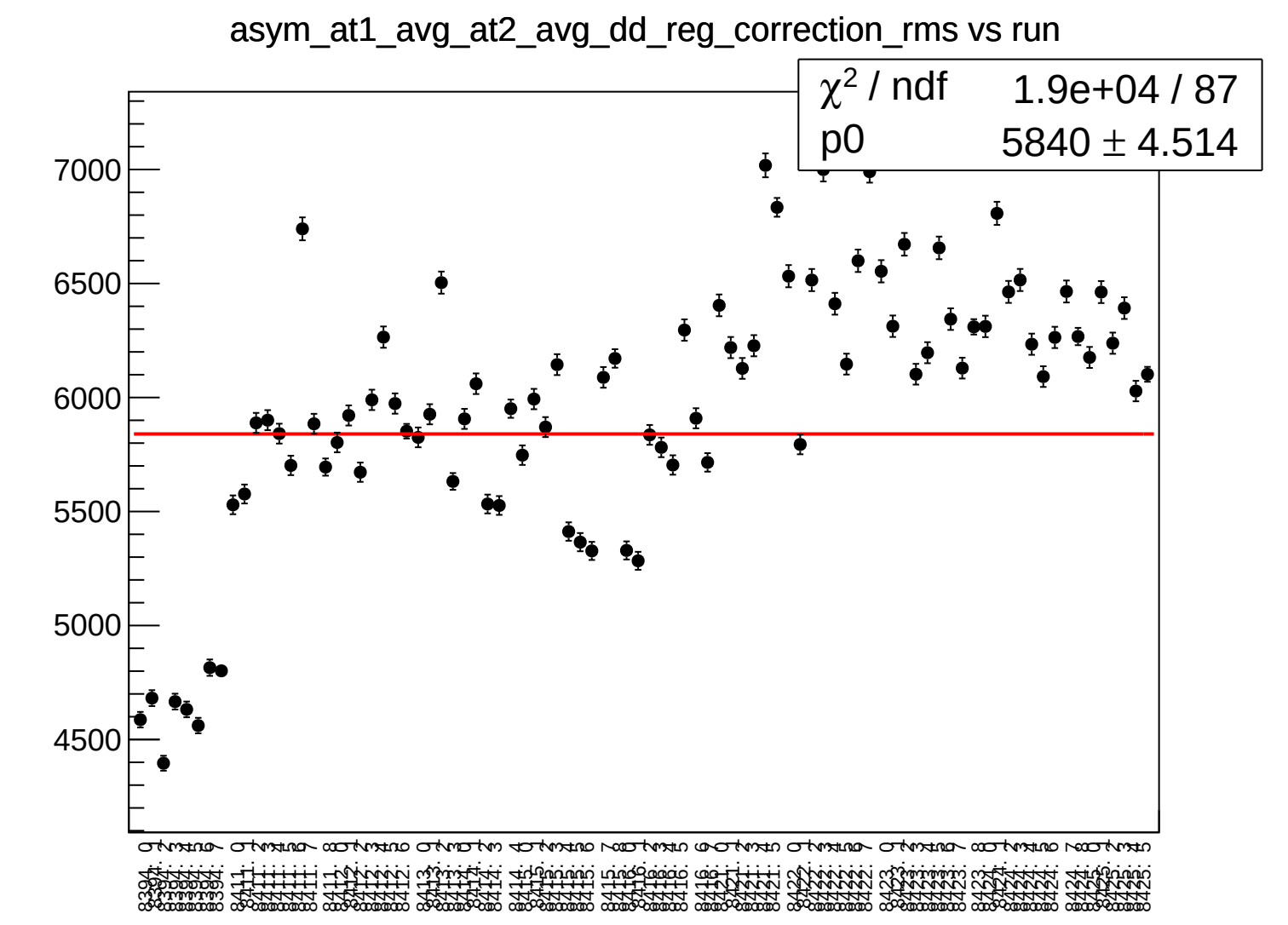

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 89.94 / 87
p0 1393 ± 1384
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 452.3
Std Dev 0
3
2
1
0
−1
−2

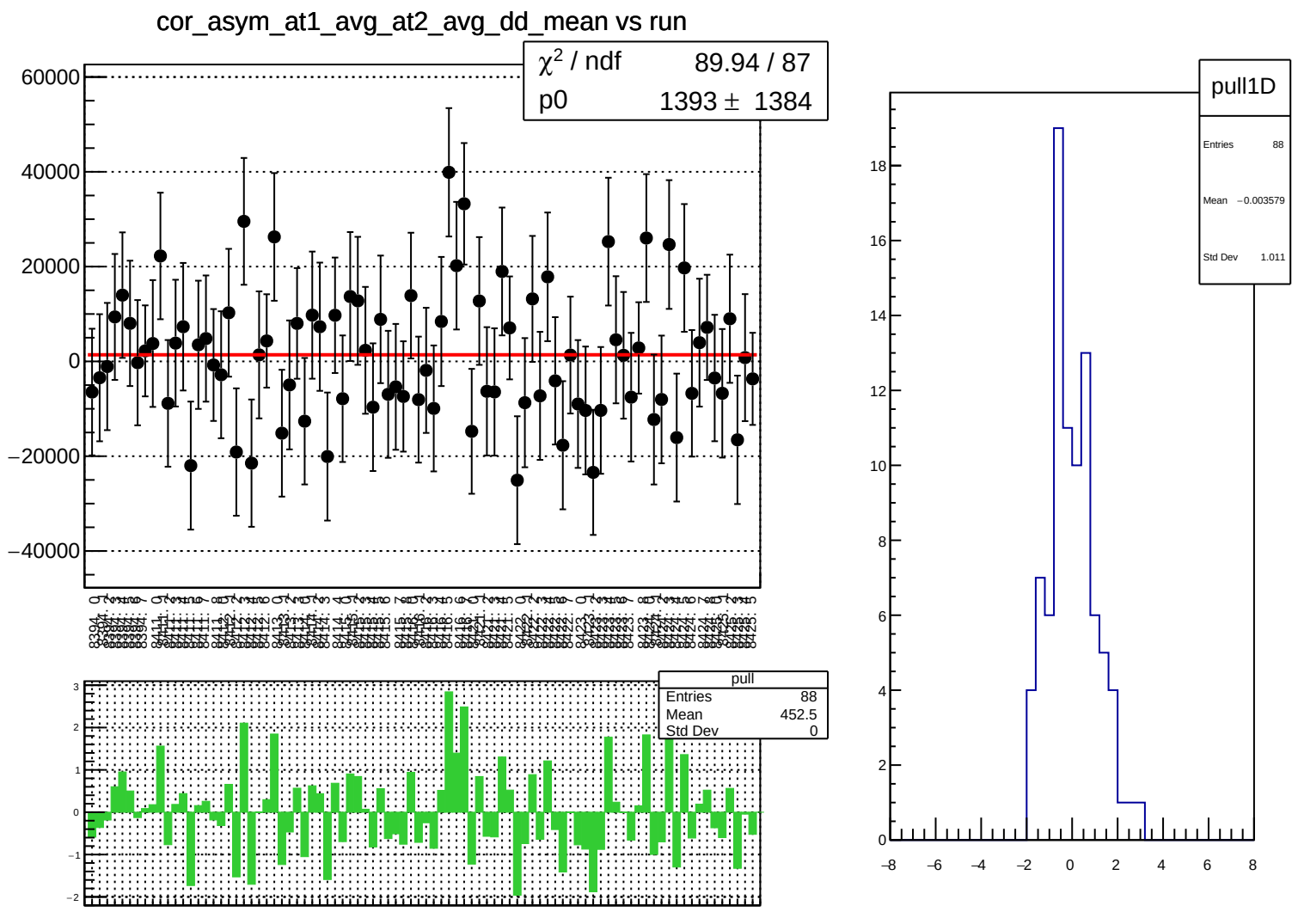

pull1D
Entries 88
Mean −0.00358
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

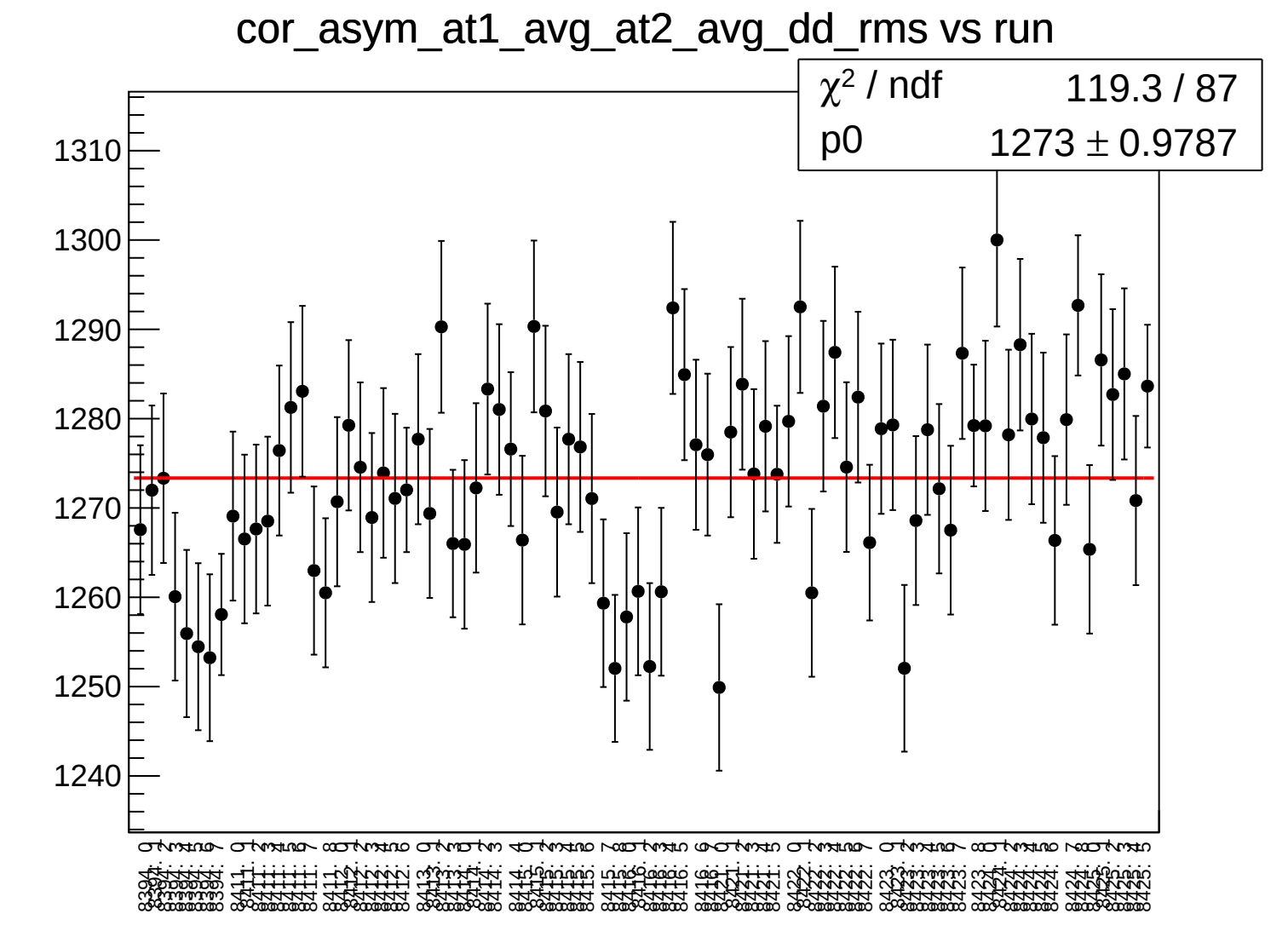

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ^2 / ndf 119.3 / 87
p0 1273 ± 0.9787
1310
1300
1290
1280
1270
1260
1250
1240

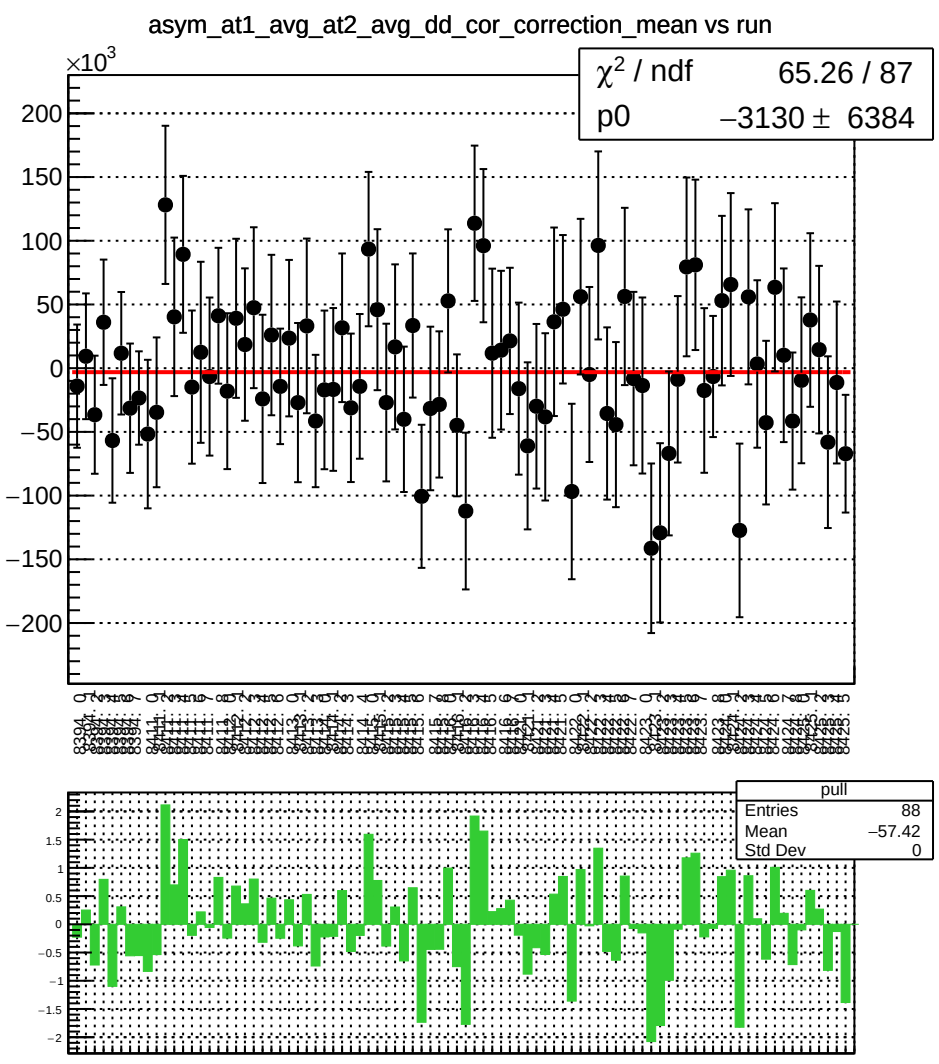

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 65.26 / 87
p0 −3131 ± 6384
pull
Entries 88
Mean −57.4
Std Dev 0

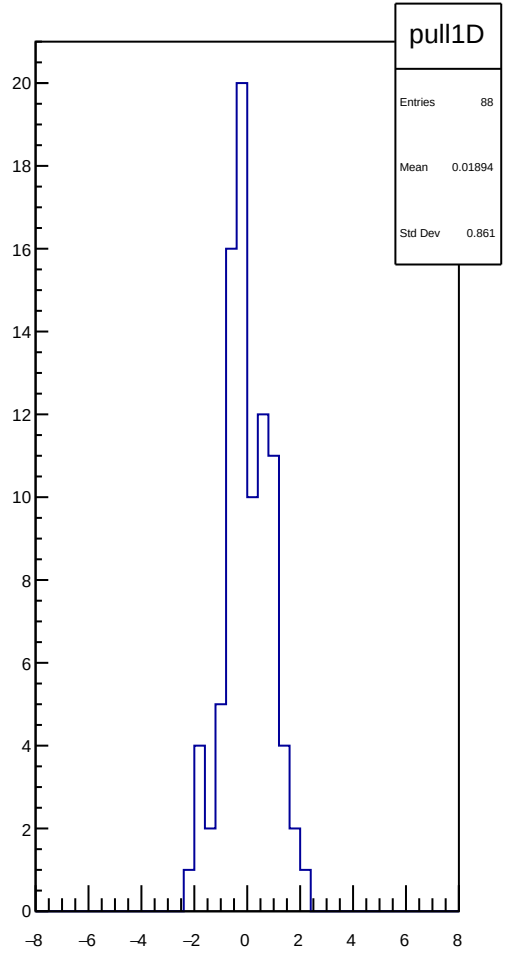

pull1D
Entries 88
Mean 0.01894
Std Dev 0.861

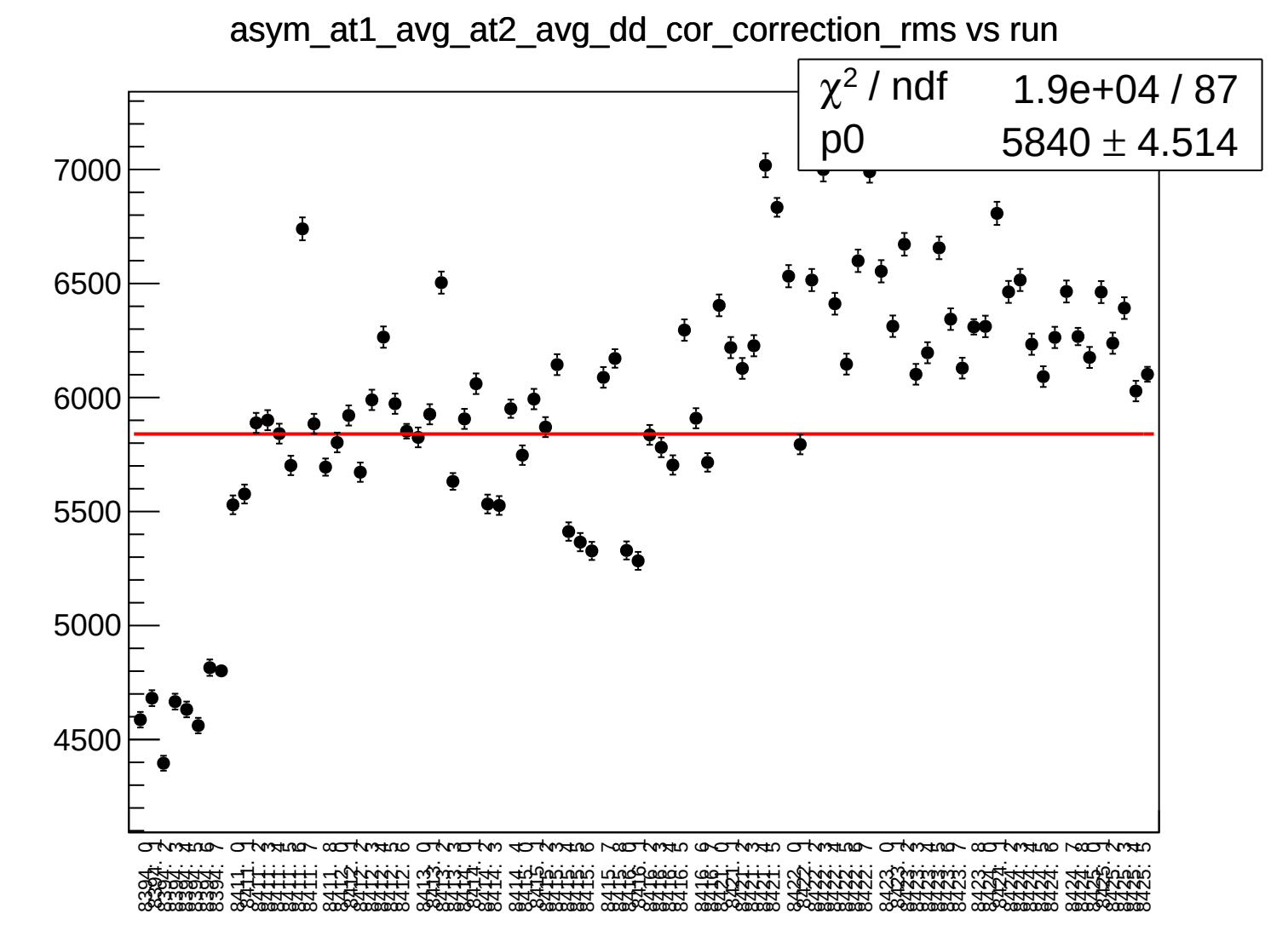

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 1.9e+04 / 87
p0 5840 ± 4.514
7000
6500
6000
5500
5000
4500

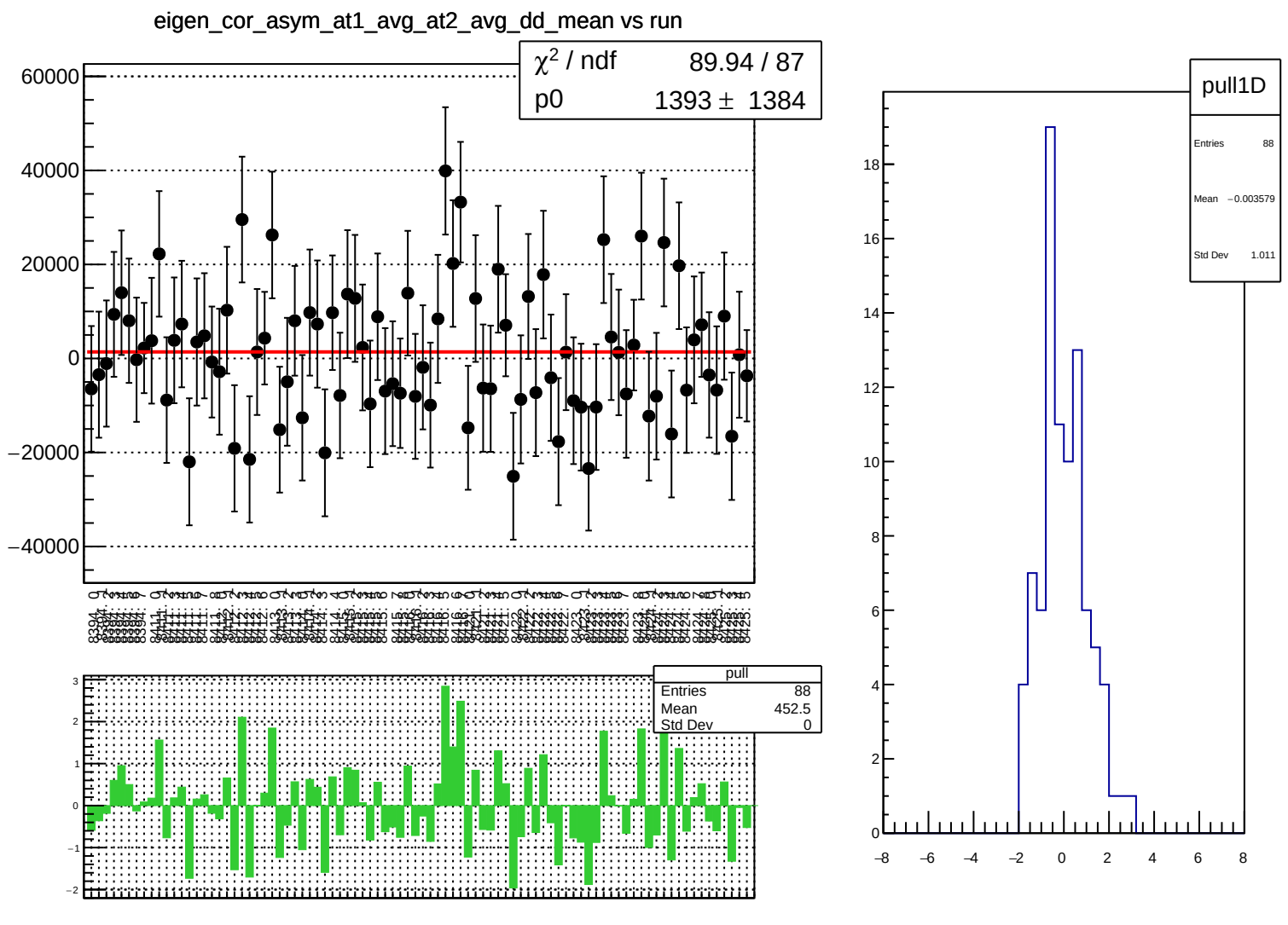

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 89.94 / 87
p0 1393 ± 1384
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 452.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.003579
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

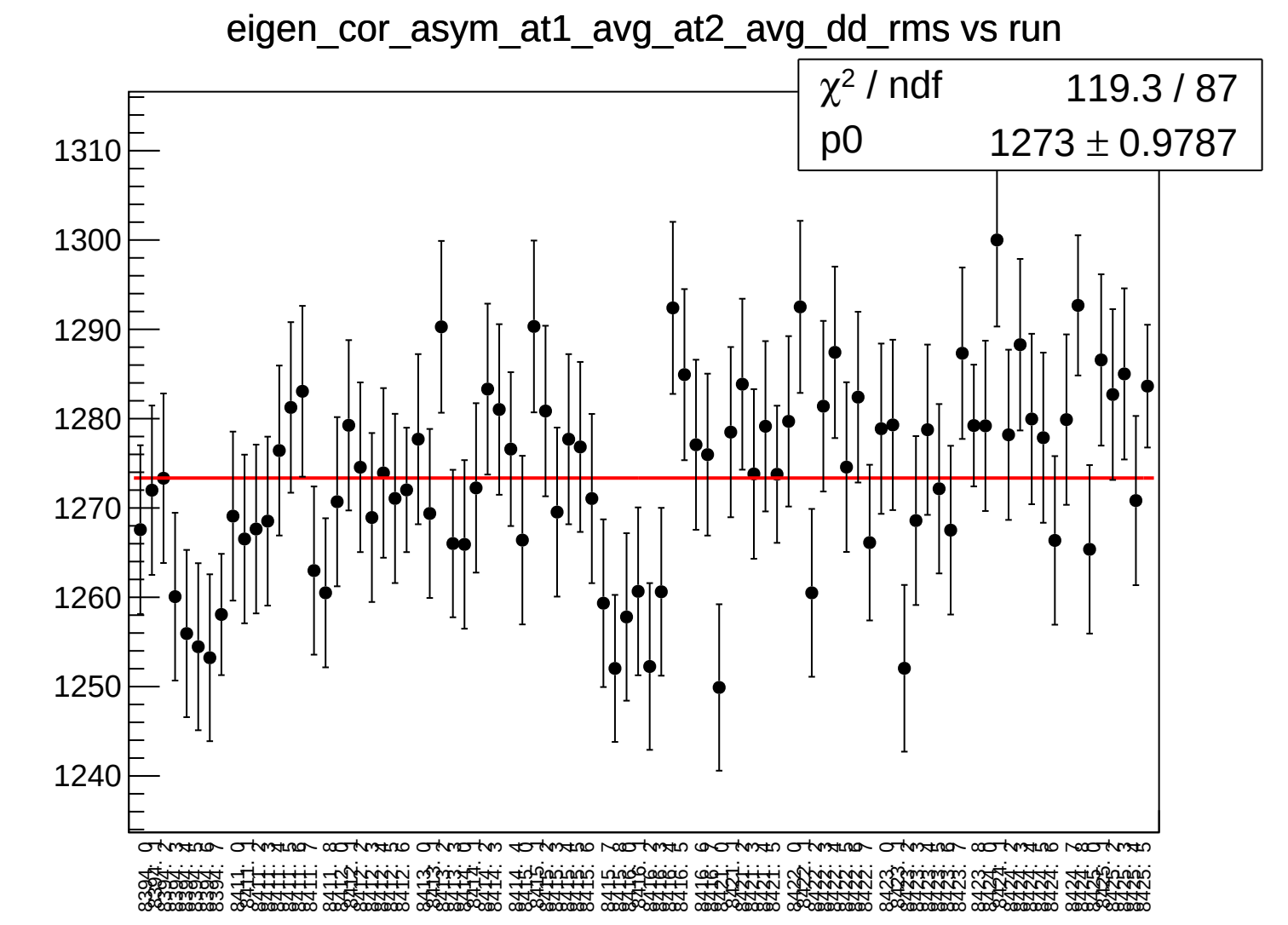

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ^2 / ndf 119.3 / 87
p0 1273 ± 0.9787
1310
1300
1290
1280
1270
1260
1250
1240

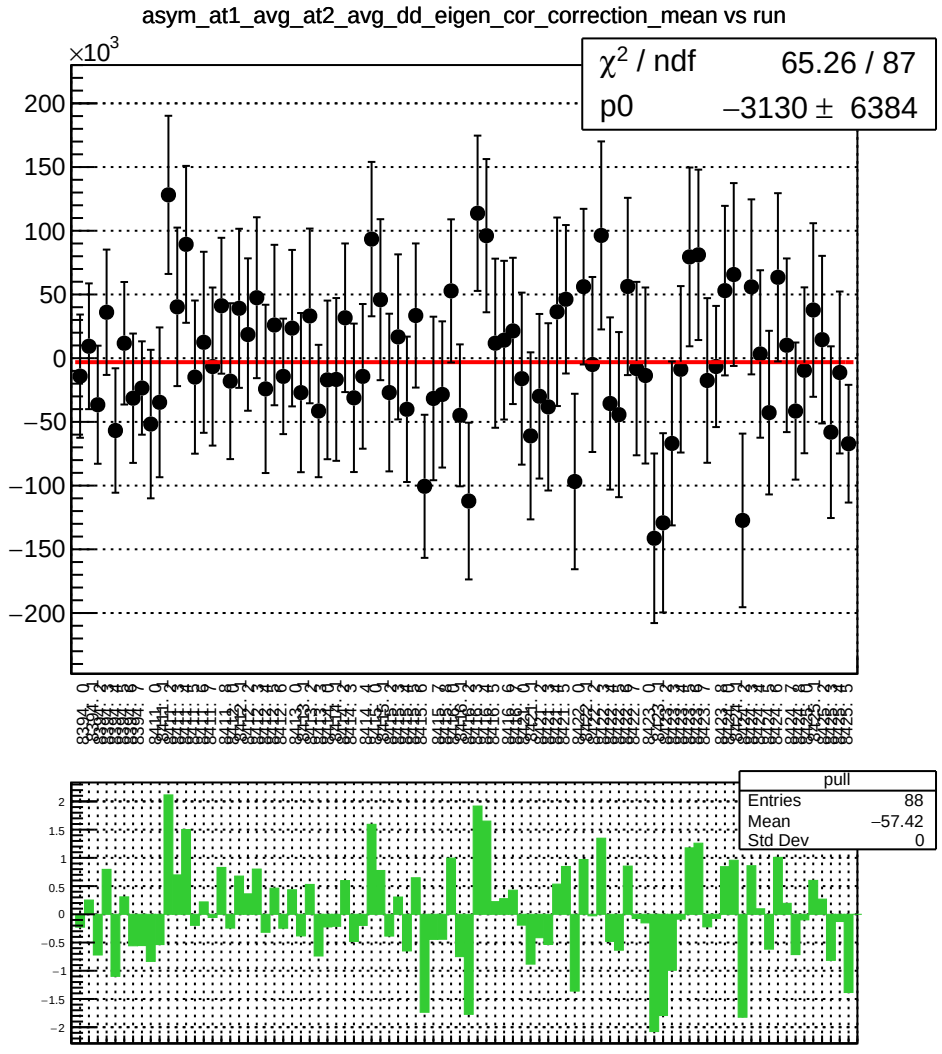

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 65.26 / 87
p0 −3130 ± 6384
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −57.42
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

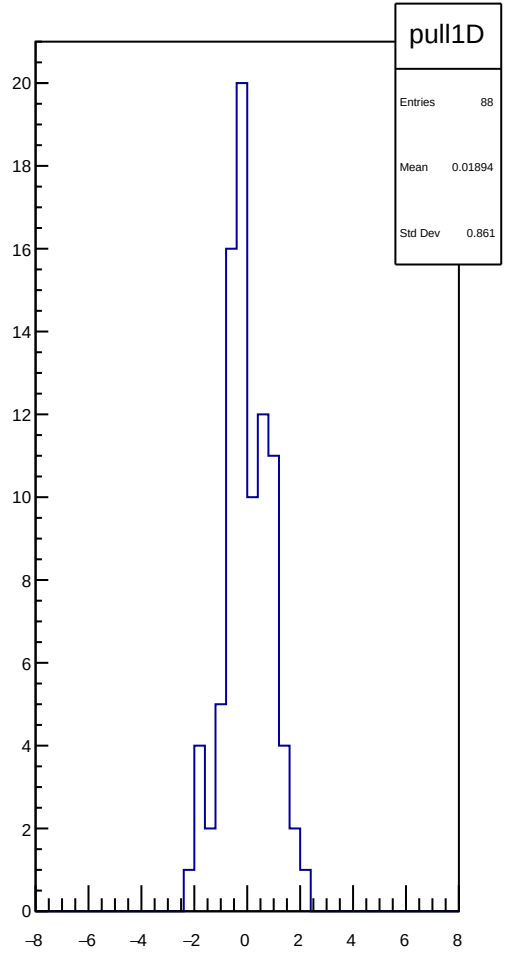

pull1D
Entries 88
Mean 0.01894
Std Dev 0.861
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

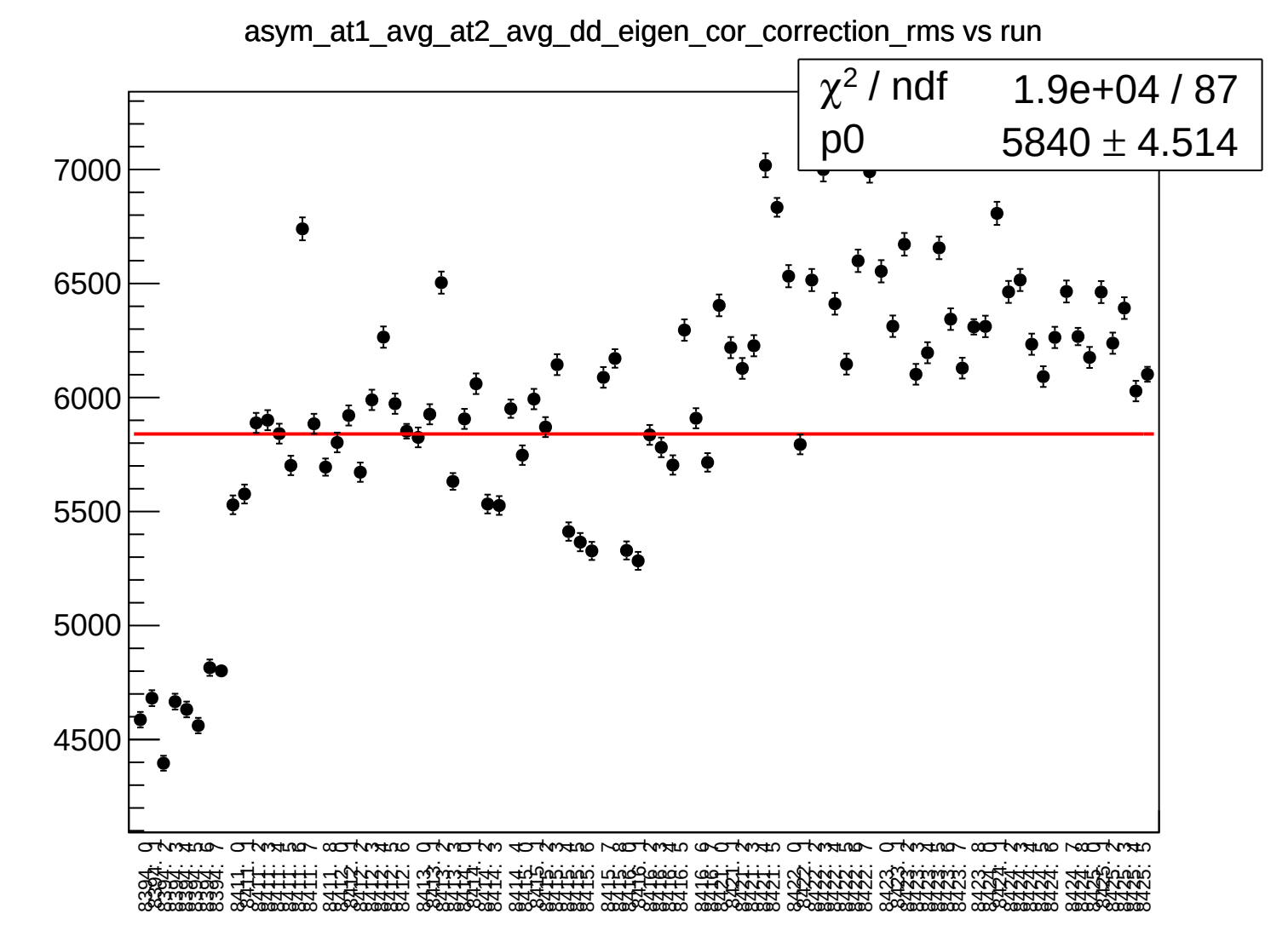

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 1.9e+04 / 87
p0 5840 ± 4.514
7000
6500
6000
5500
5000
4500

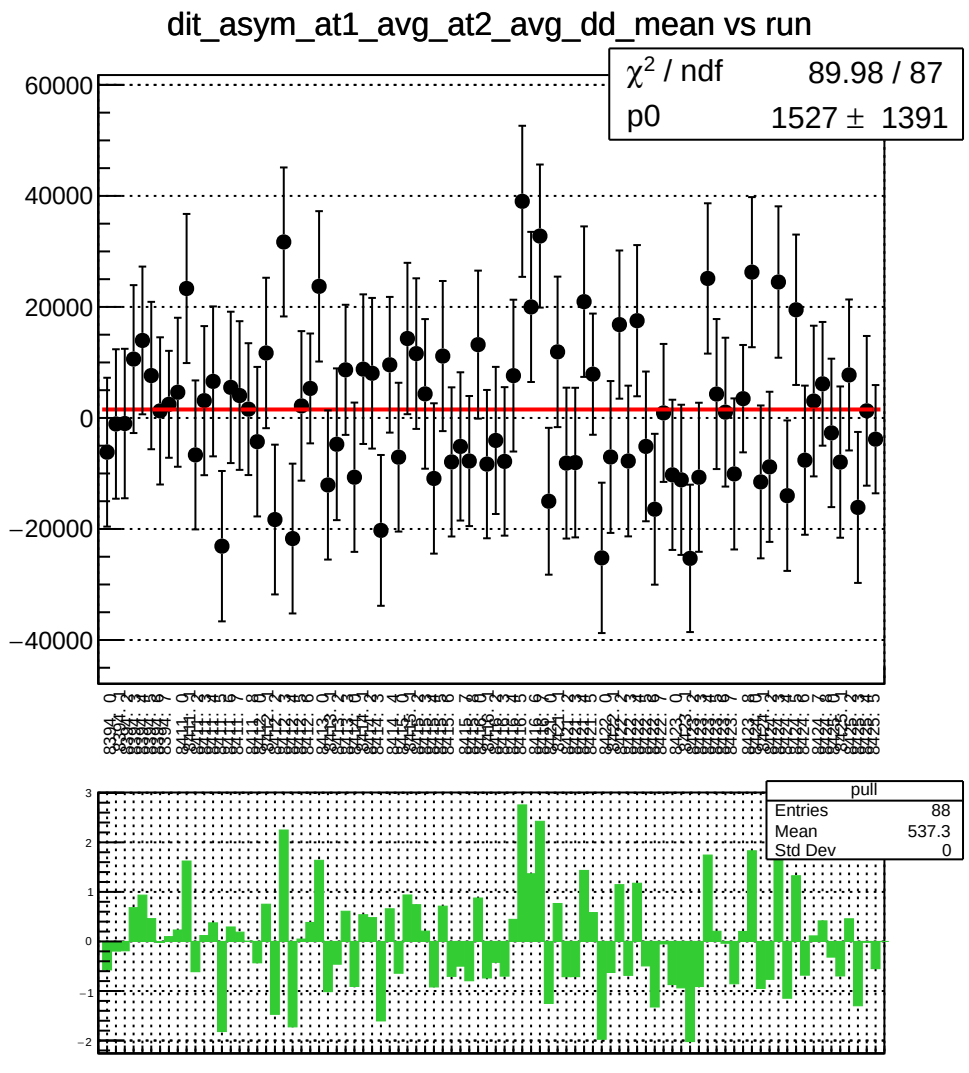

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 89.94 / 87
p0 1393 ± 1384
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 452.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.003579
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

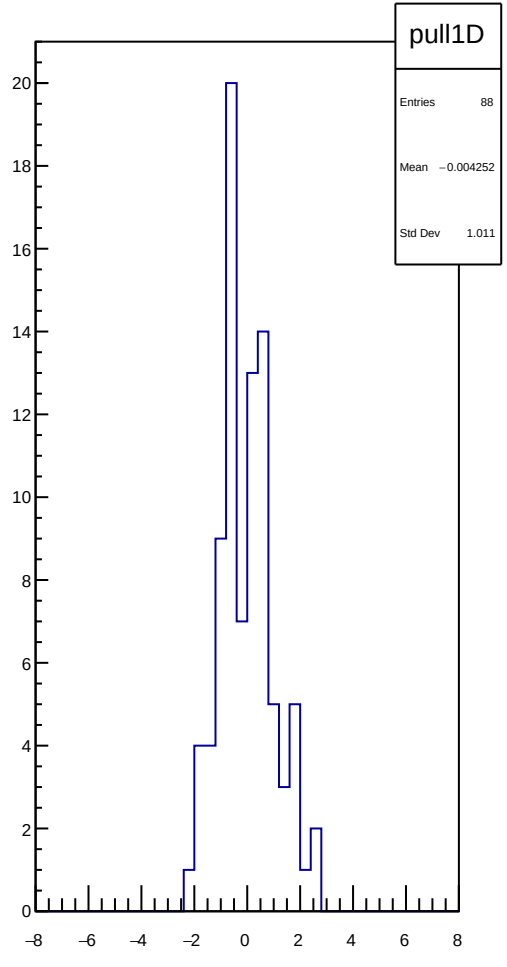

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ^2 / ndf 119.3 / 87
p0 1273 ± 0.9787
1310
1300
1290
1280
1270
1260
1250
1240

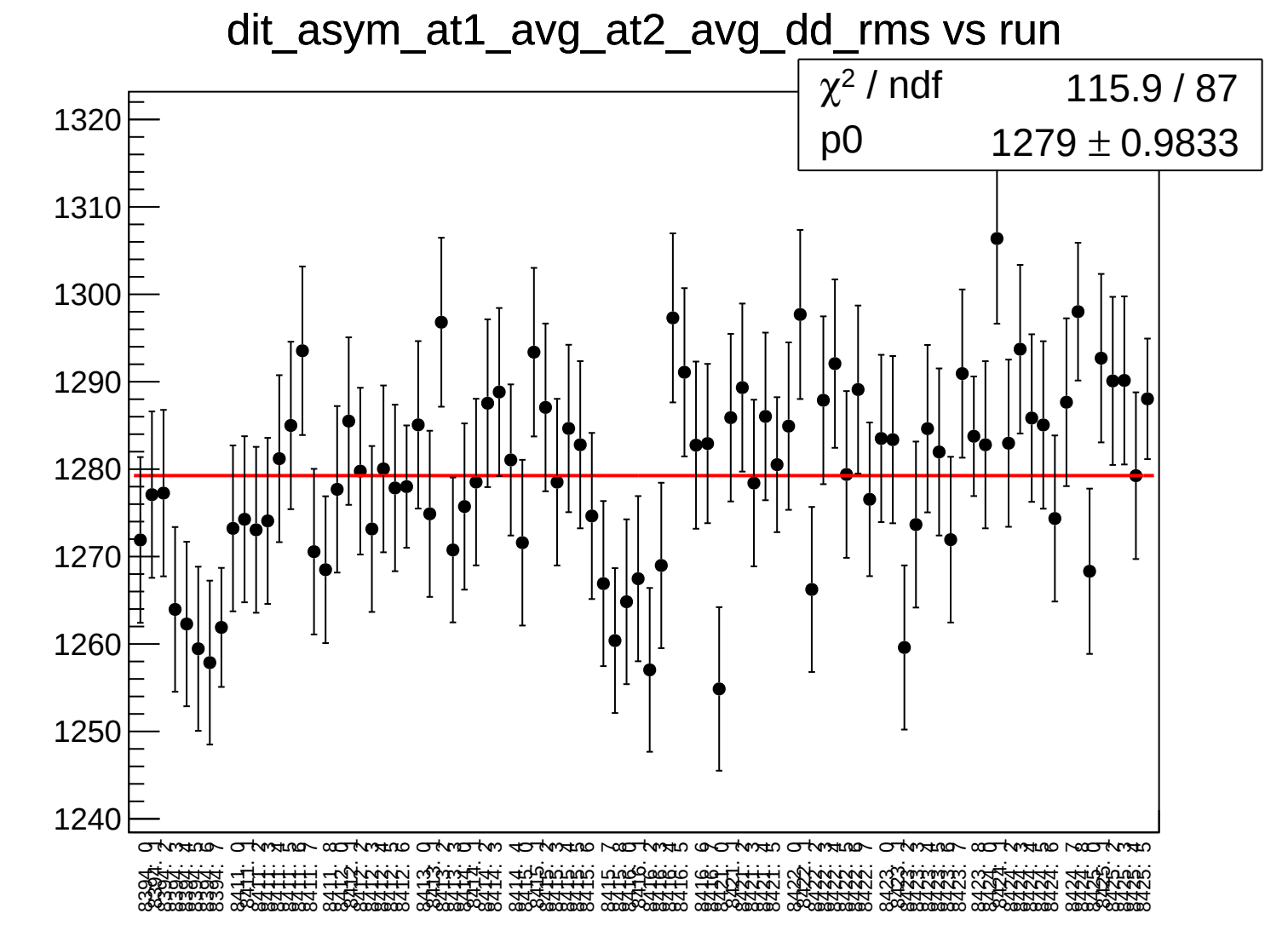

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 65.26 / 87
p0 −3130 ± 6384
pull
Entries 88
Mean −57.42
Std Dev 0

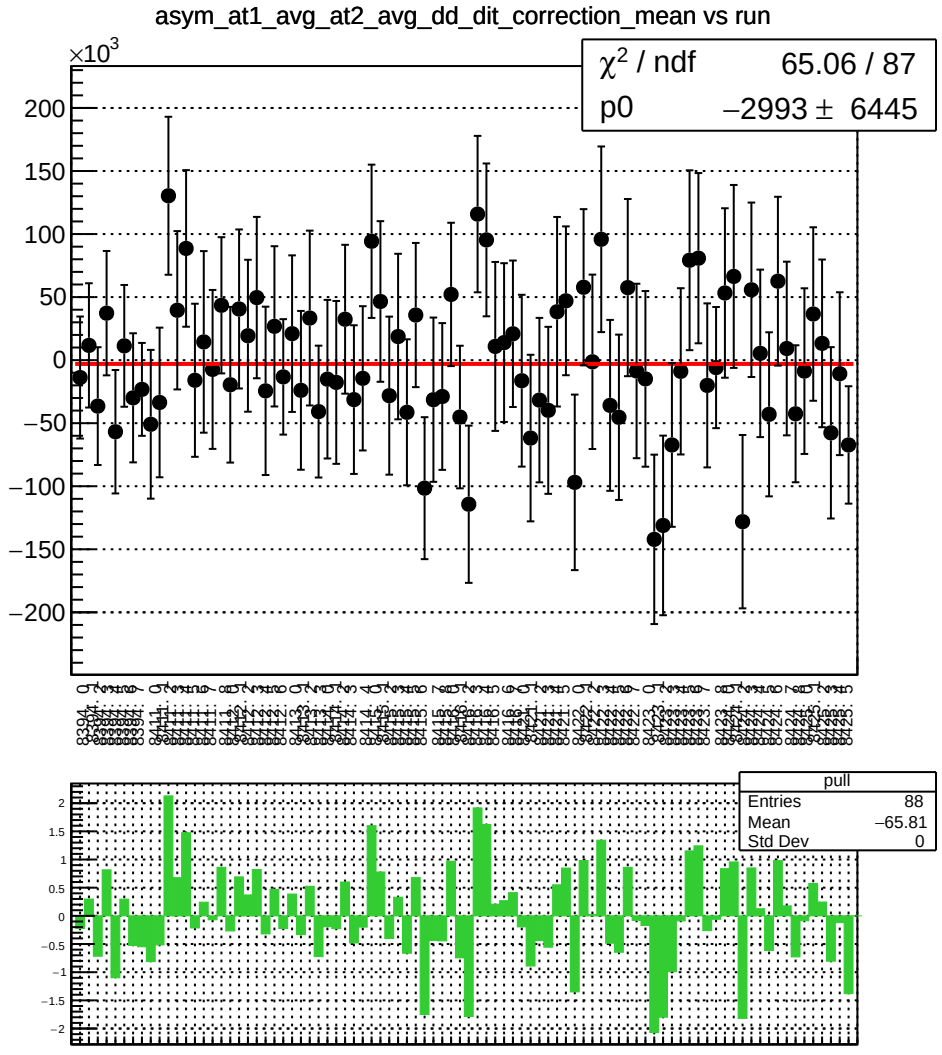

pull1D
Entries 88
Mean 0.01894
Std Dev 0.861

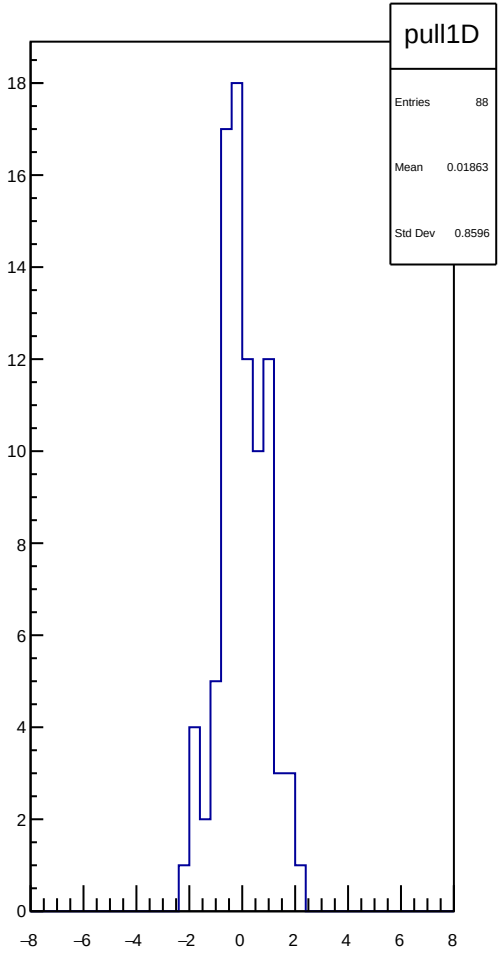

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.9e+04 / 87
p0 5840 ± 4.514
7000
6500
6000
5500
5000
4500

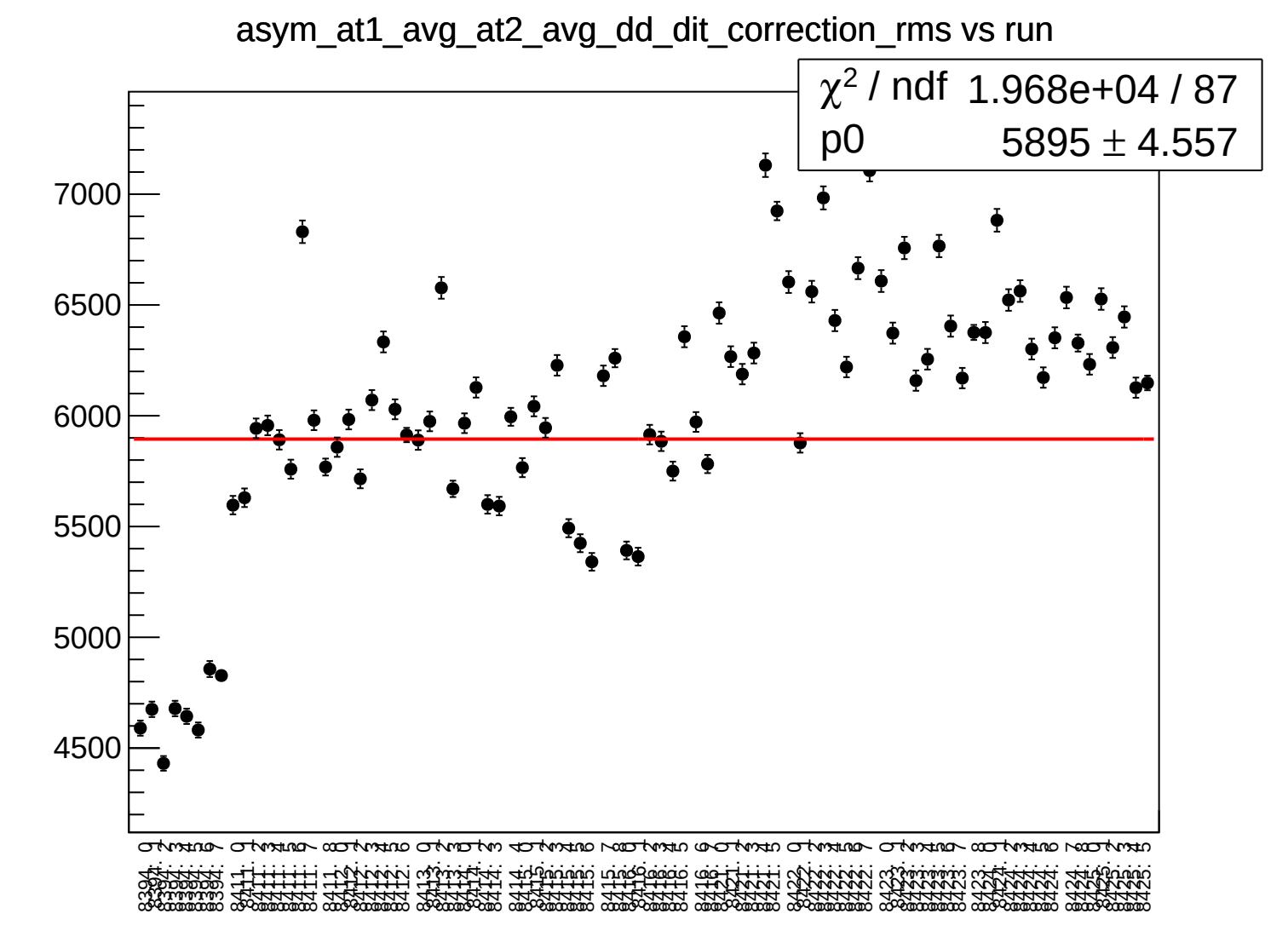

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 89.98 / 87
p0 1527 ± 1391
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 537.3
Std Dev 0
3
2
1
0
−1
−2

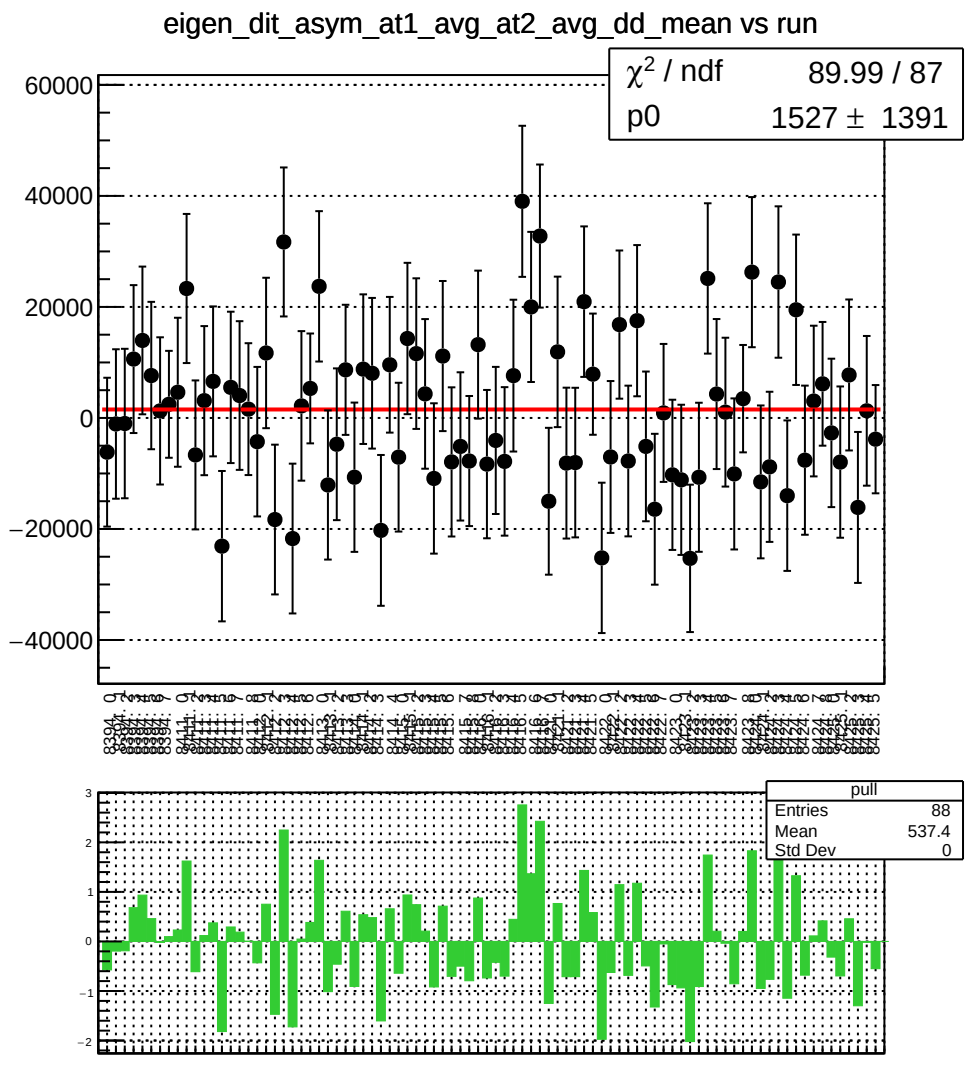

pull1D
Entries 88
Mean −0.004252
Std Dev 1.011
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

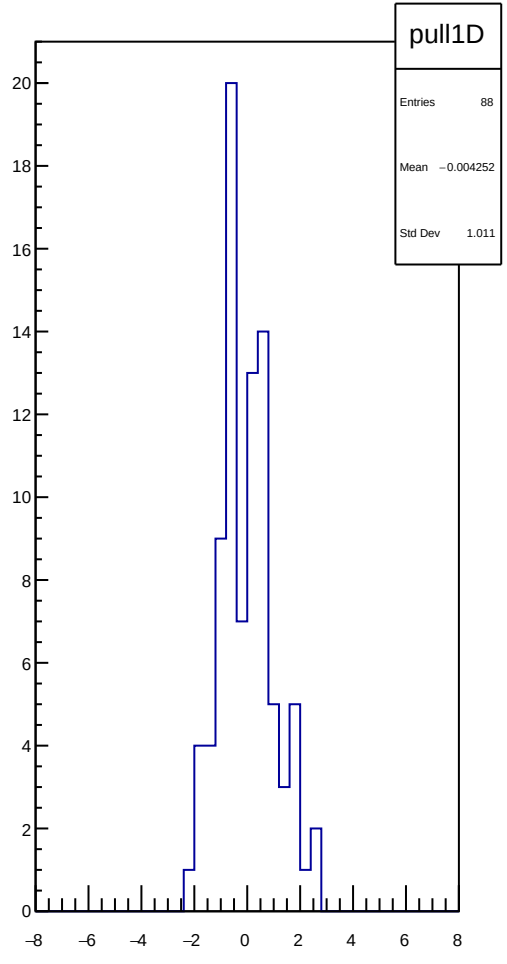

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 115.9 / 87
p0 1279 ± 0.9833
1320
1310
1300
1290
1280
1270
1260
1250
1240

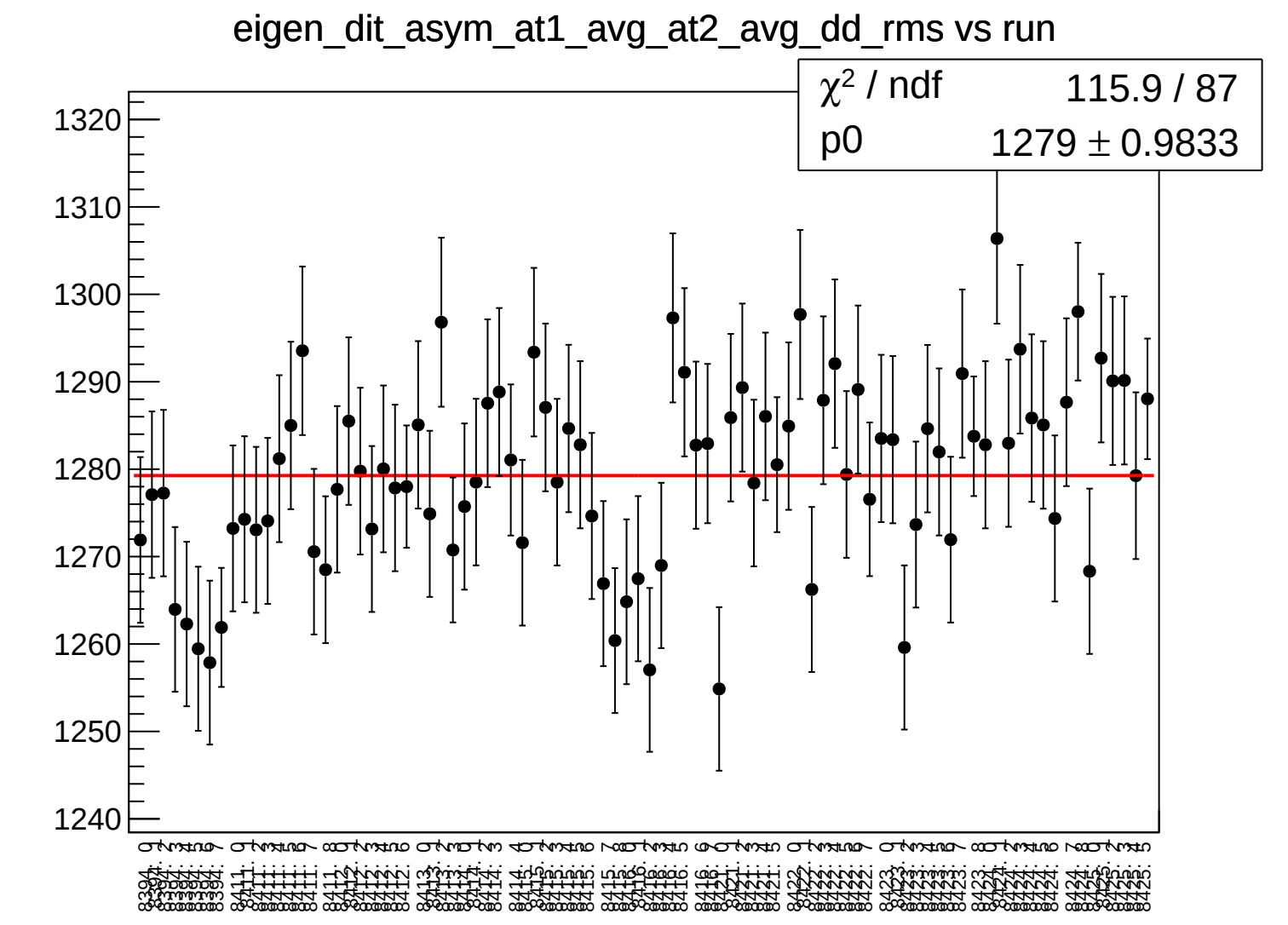

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 65.06 / 87
p0 −2993 ± 6445
pull
Entries 88
Mean −65.81
Std Dev 0

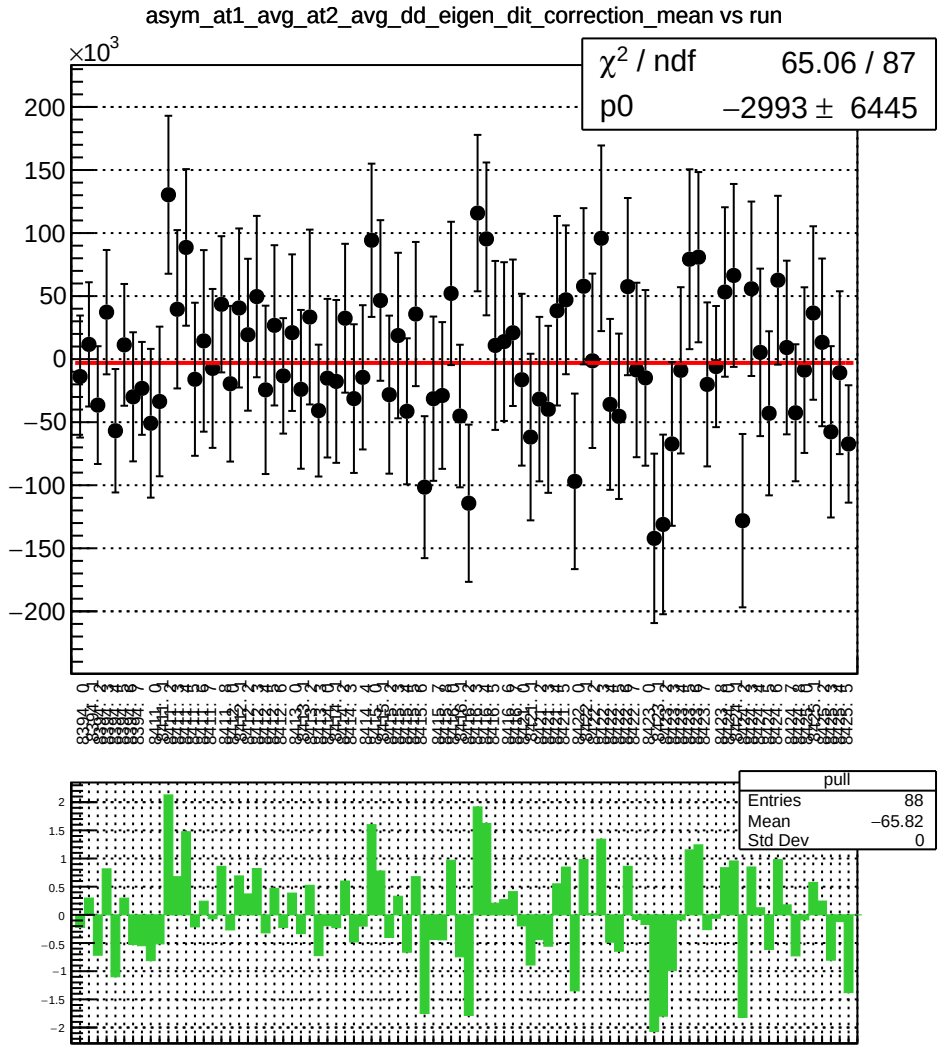

pull1D
Entries 88
Mean 0.01863
Std Dev 0.8596

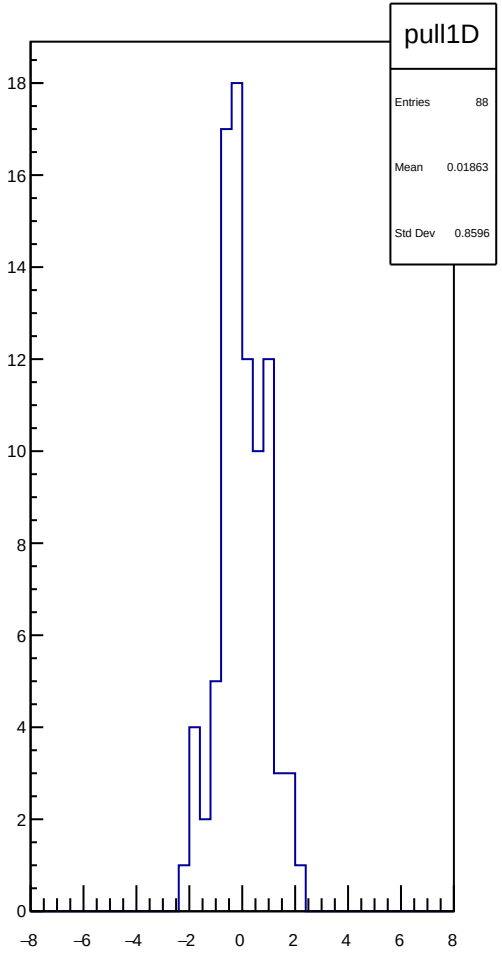

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 1.968e+04 / 87
p0 5895 ± 4.557
7000
6500
6000
5500
5000
4500

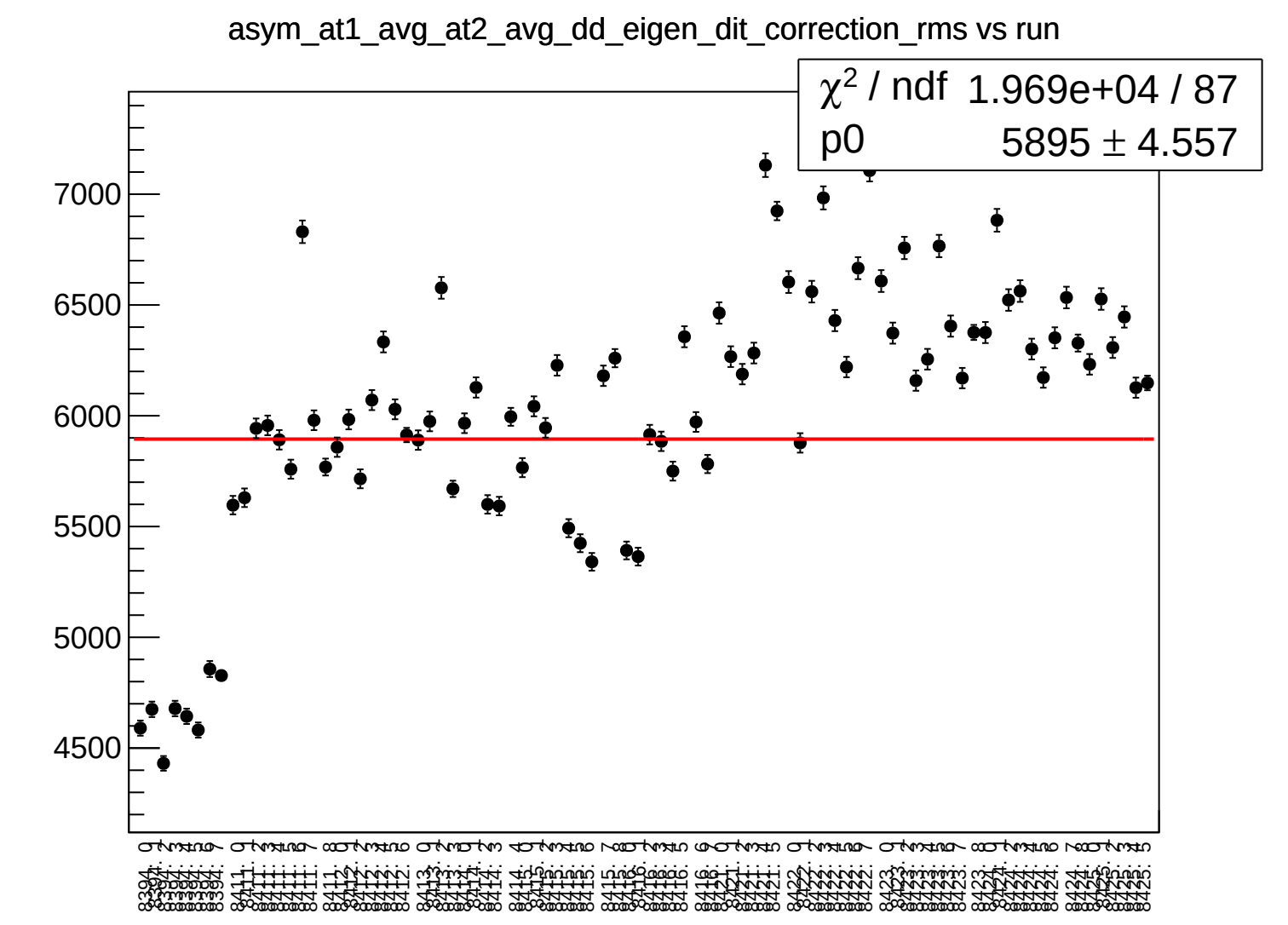

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 89.99 / 87
p0 1527 ± 1391
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 537.4
Std Dev 0
3
2
1
0
−1
−2

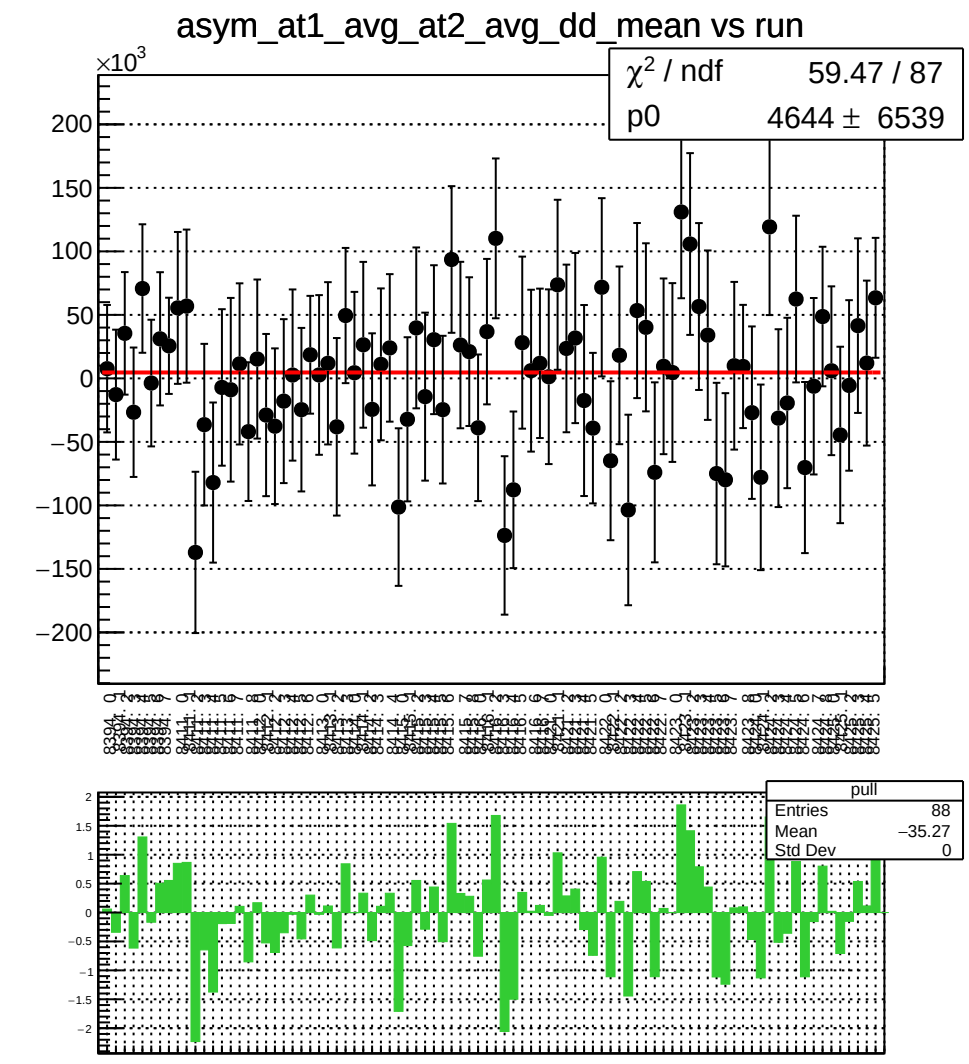

pull1D
Entries 88
Mean −0.004252
Std Dev 1.011
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

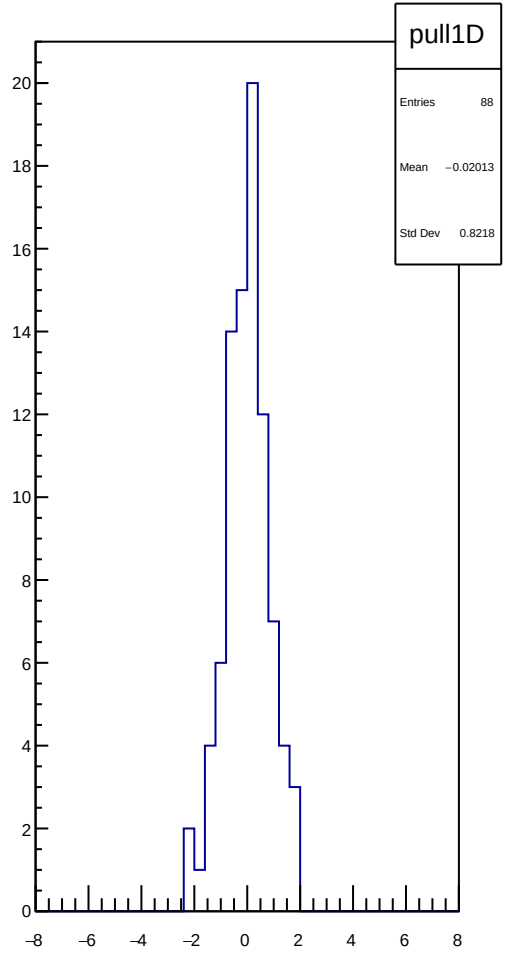

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 115.9 / 87
p0 1279 ± 0.9833
1320
1310
1300
1290
1280
1270
1260
1250
1240

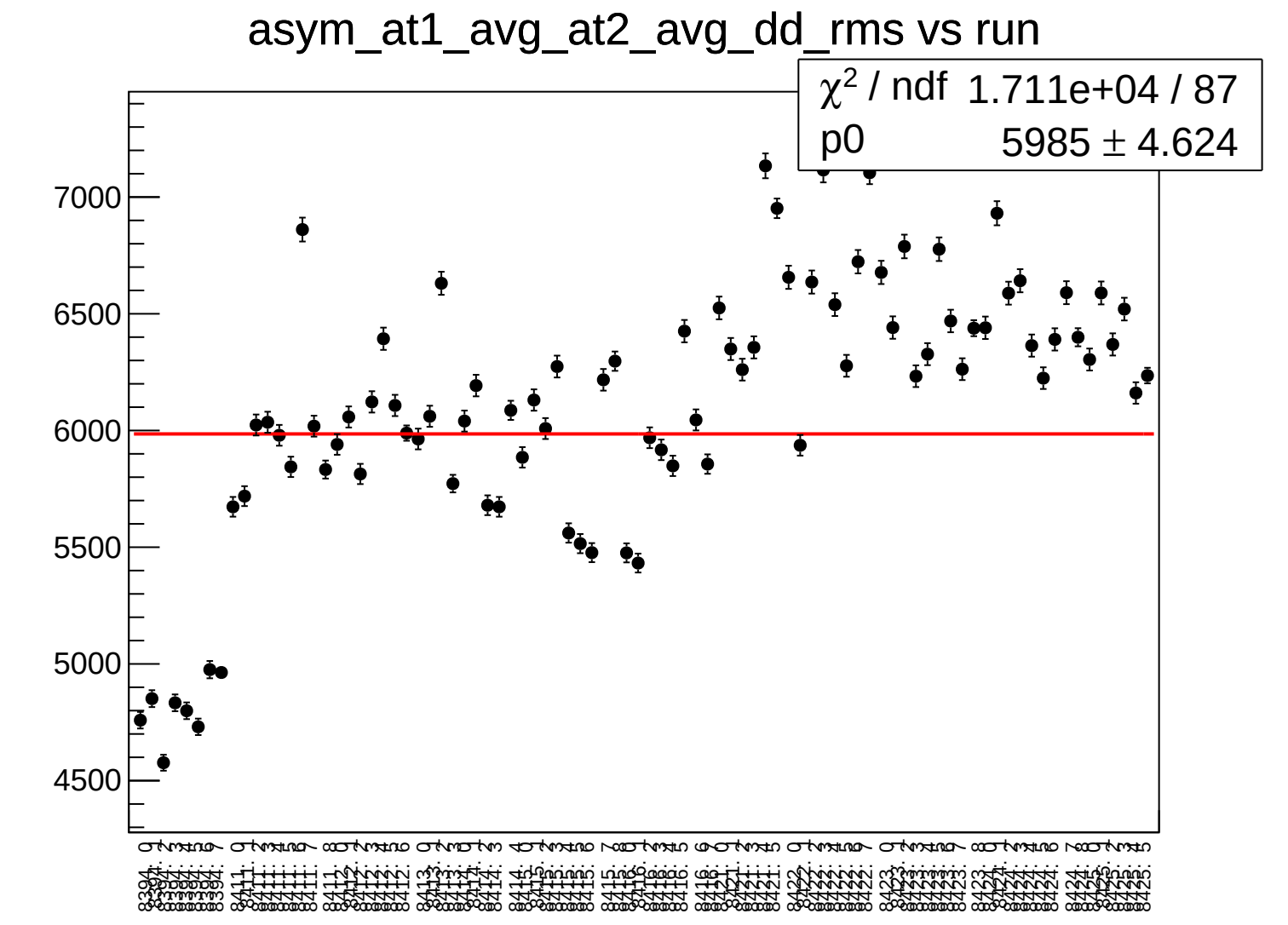

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 65.06 / 87
p0 −2993 ± 6445
pull
Entries 88
Mean −65.82
Std Dev 0

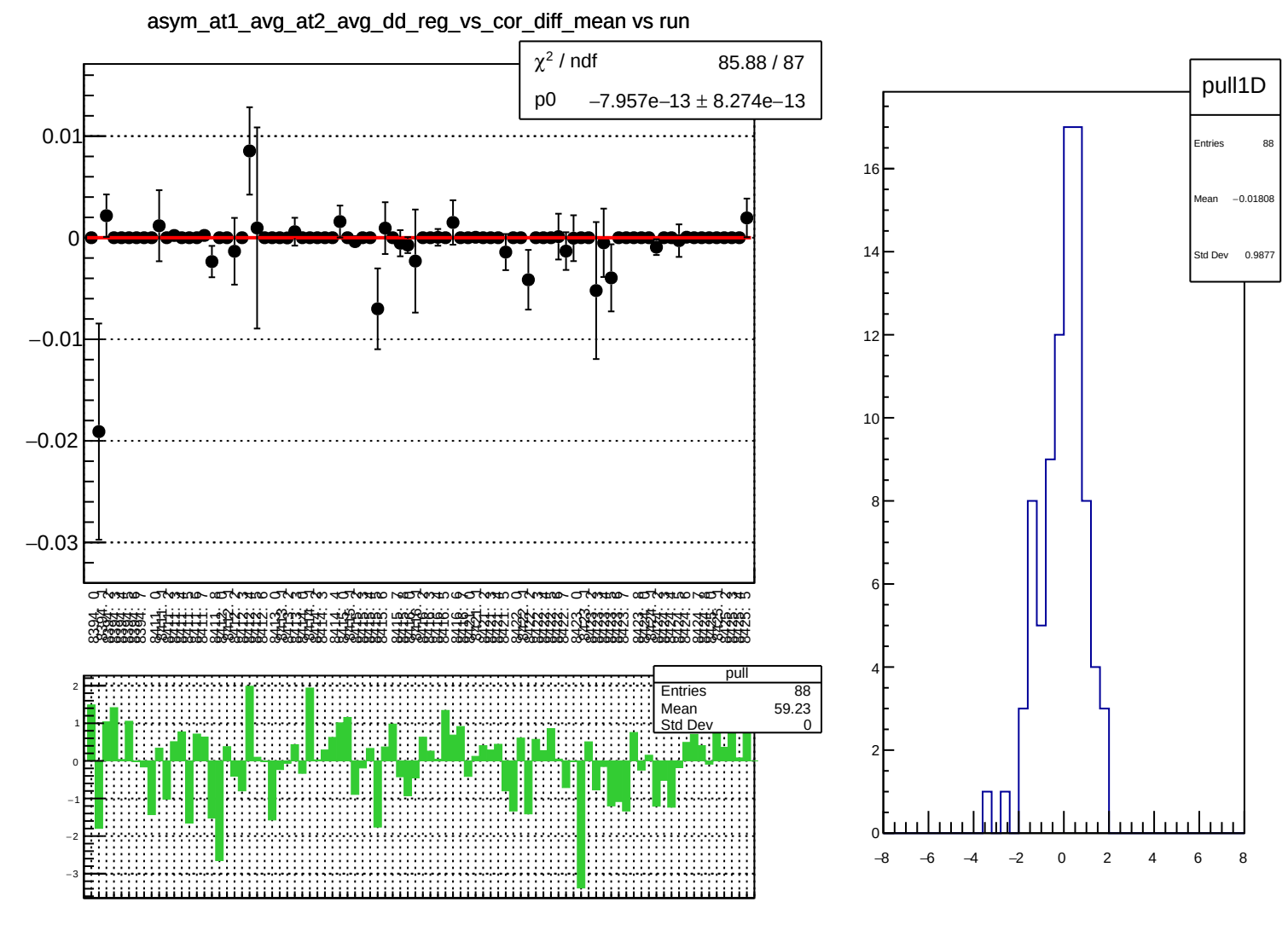

pull1D
Entries 88
Mean 0.01863
Std Dev 0.8596

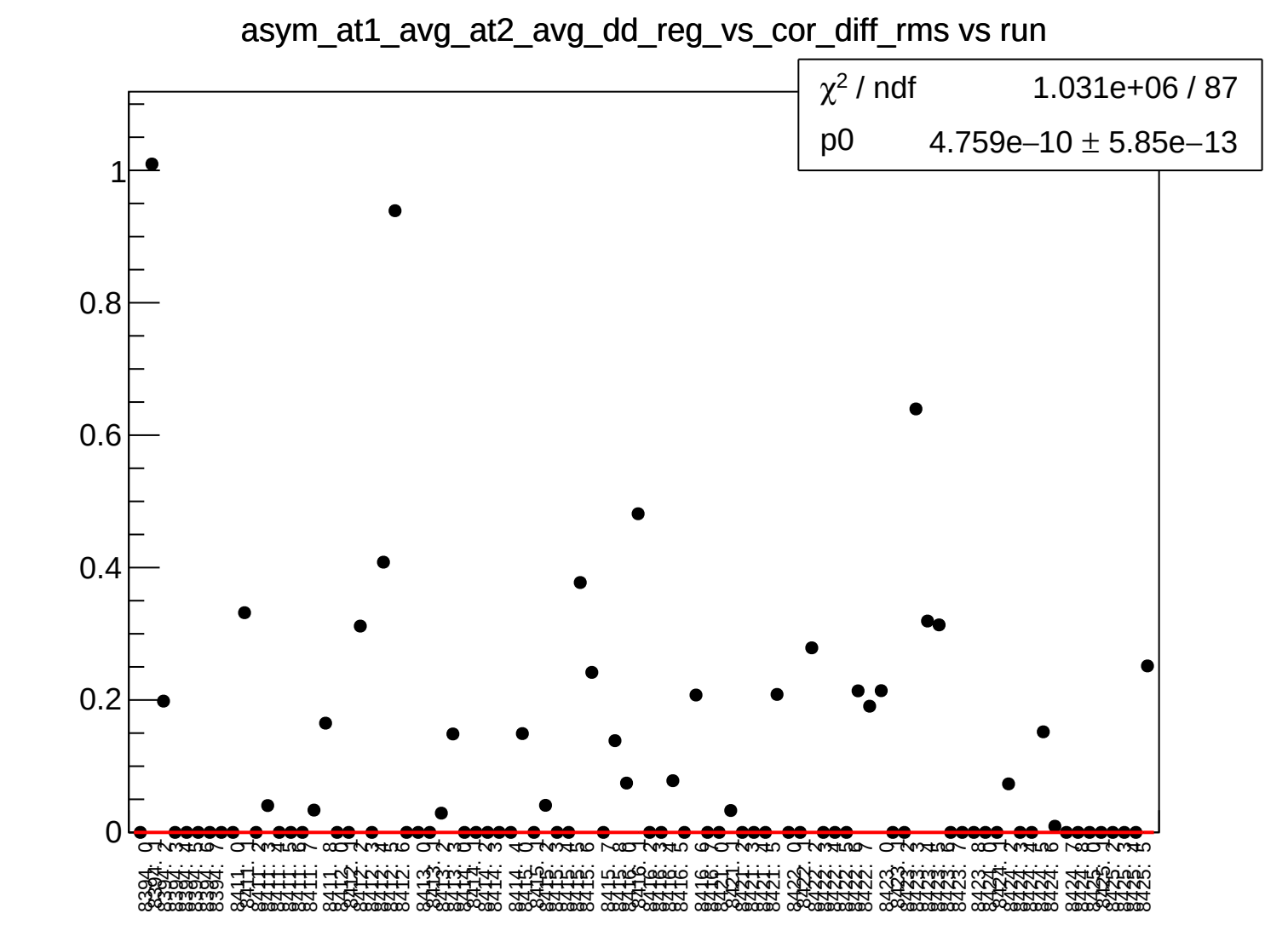

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.969e+04 / 87
p0 5895 ± 4.557
7000
6500
6000
5500
5000
4500

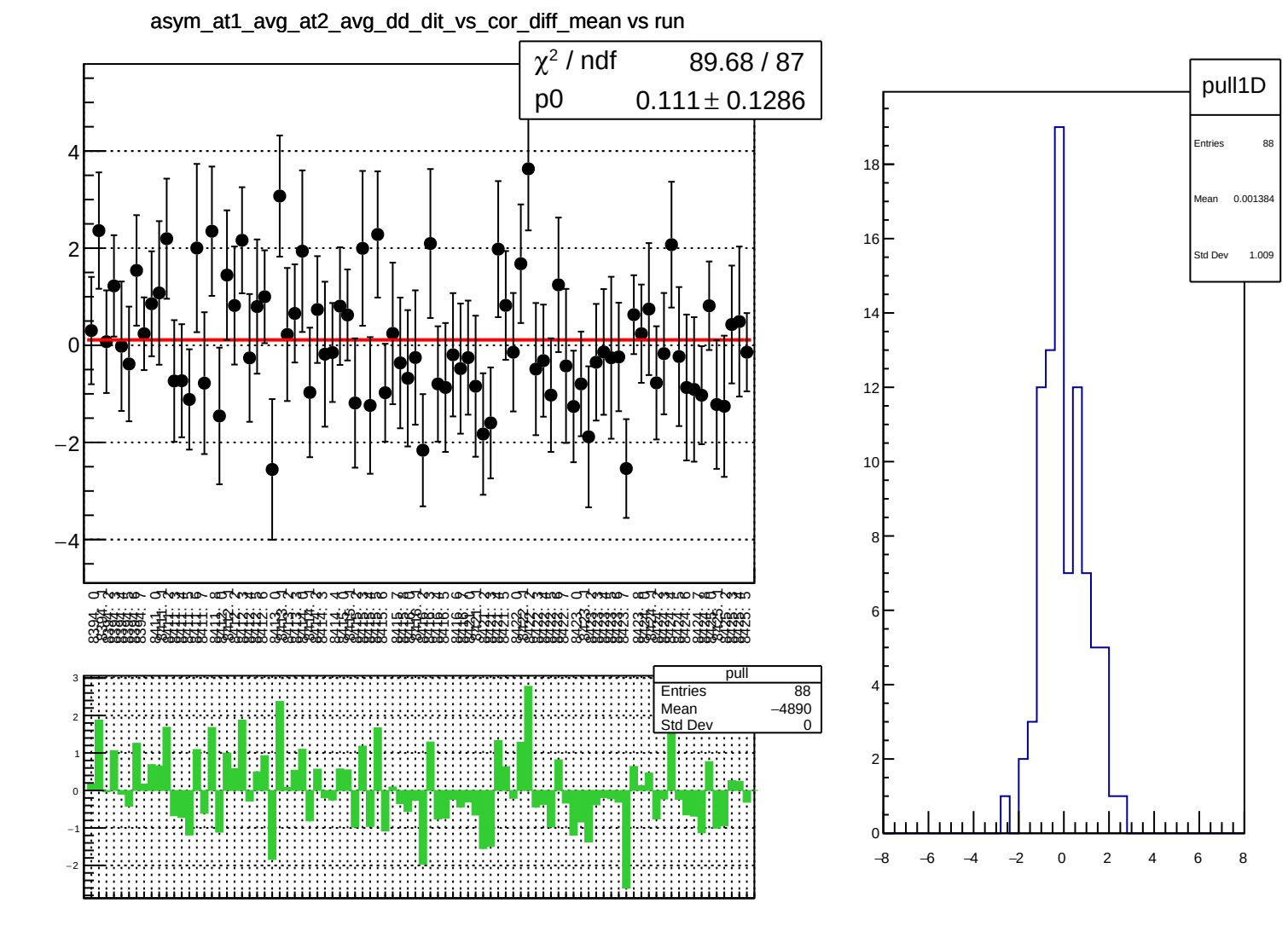

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 59.47 / 87
p0 4644 ± 6539
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −35.27
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

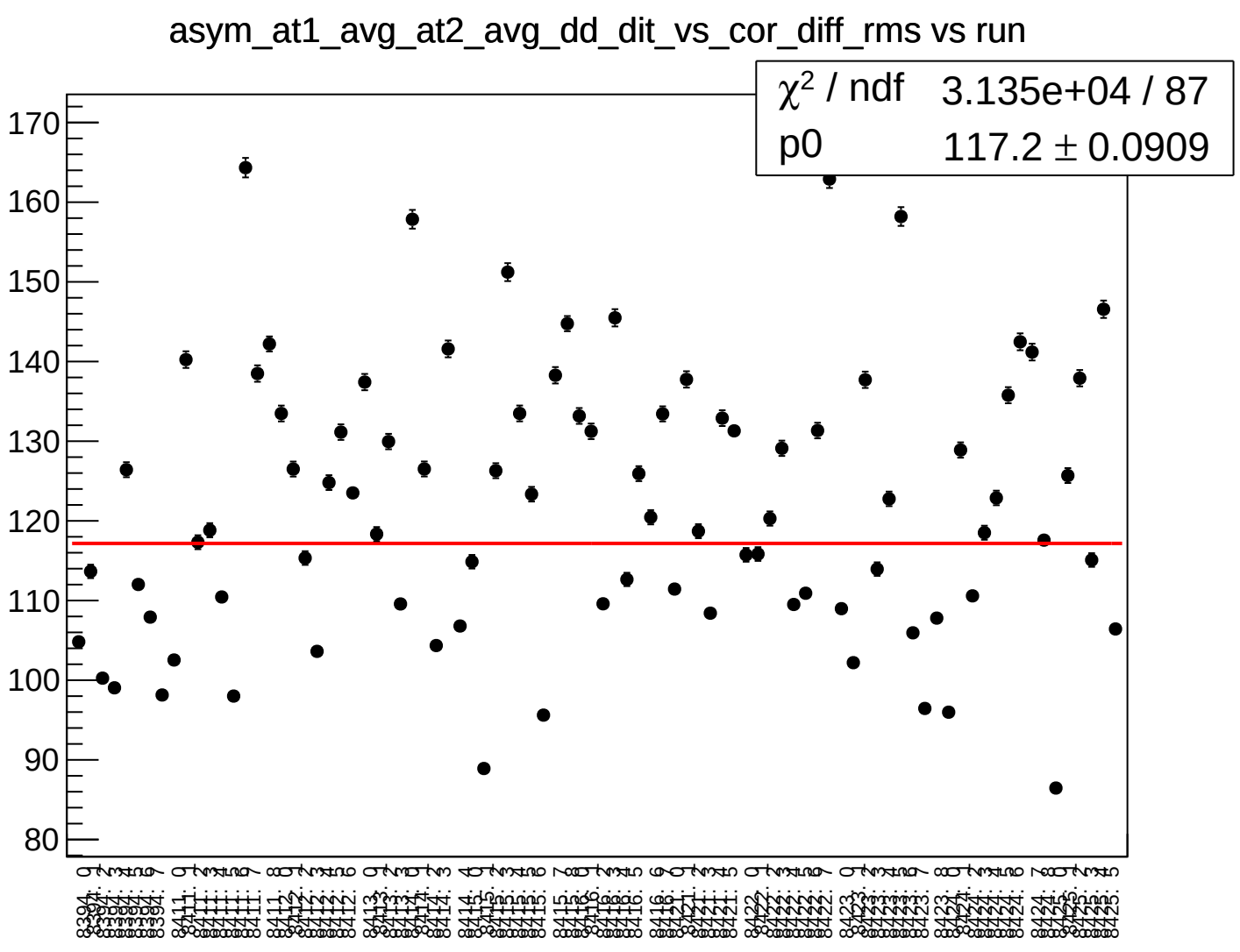

pull1D
Entries 88
Mean −0.02013
Std Dev 0.8218
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

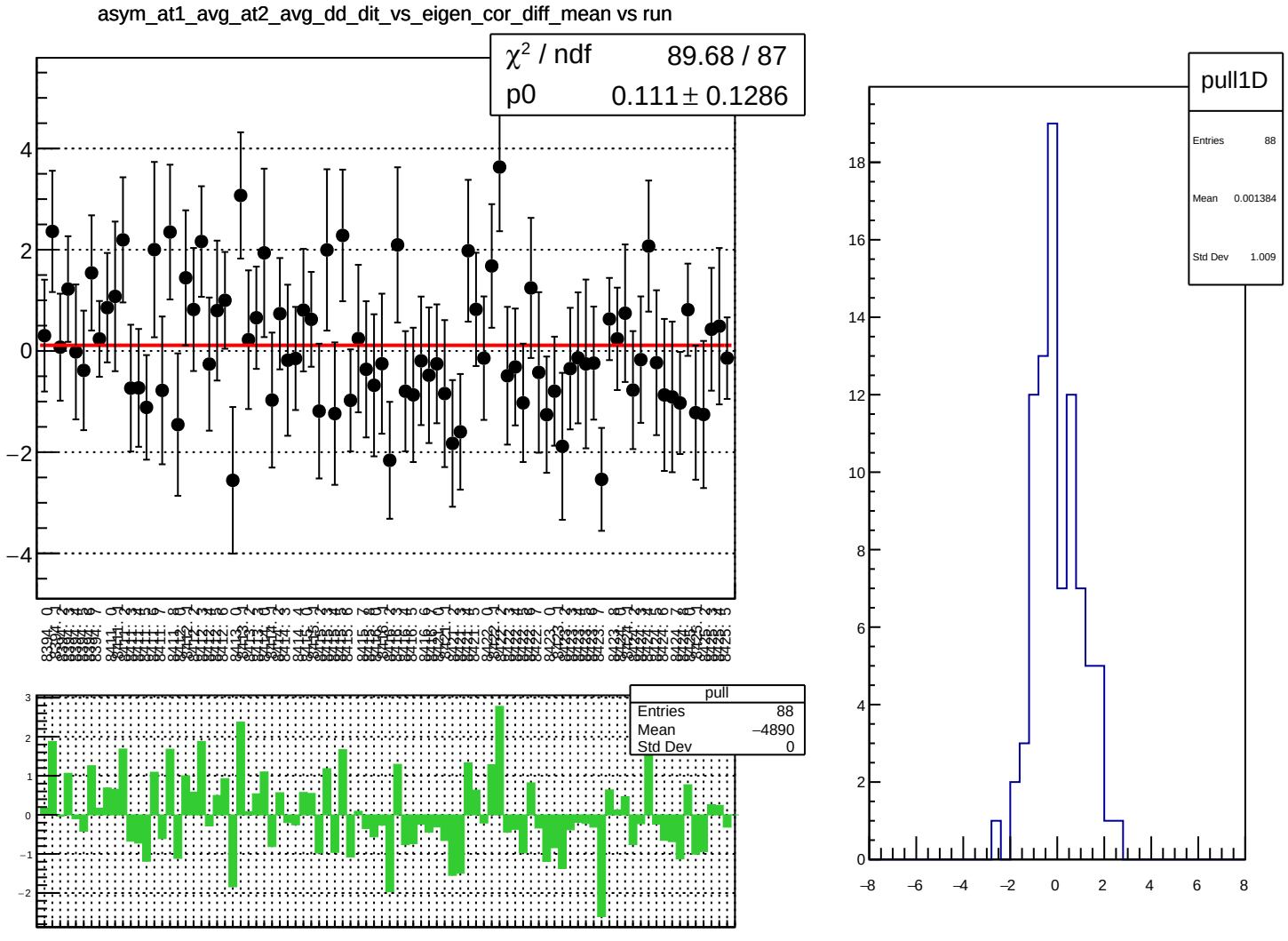

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 1.711e+04 / 87
p0 5985 ± 4.624
7000
6500
6000
5500
5000
4500

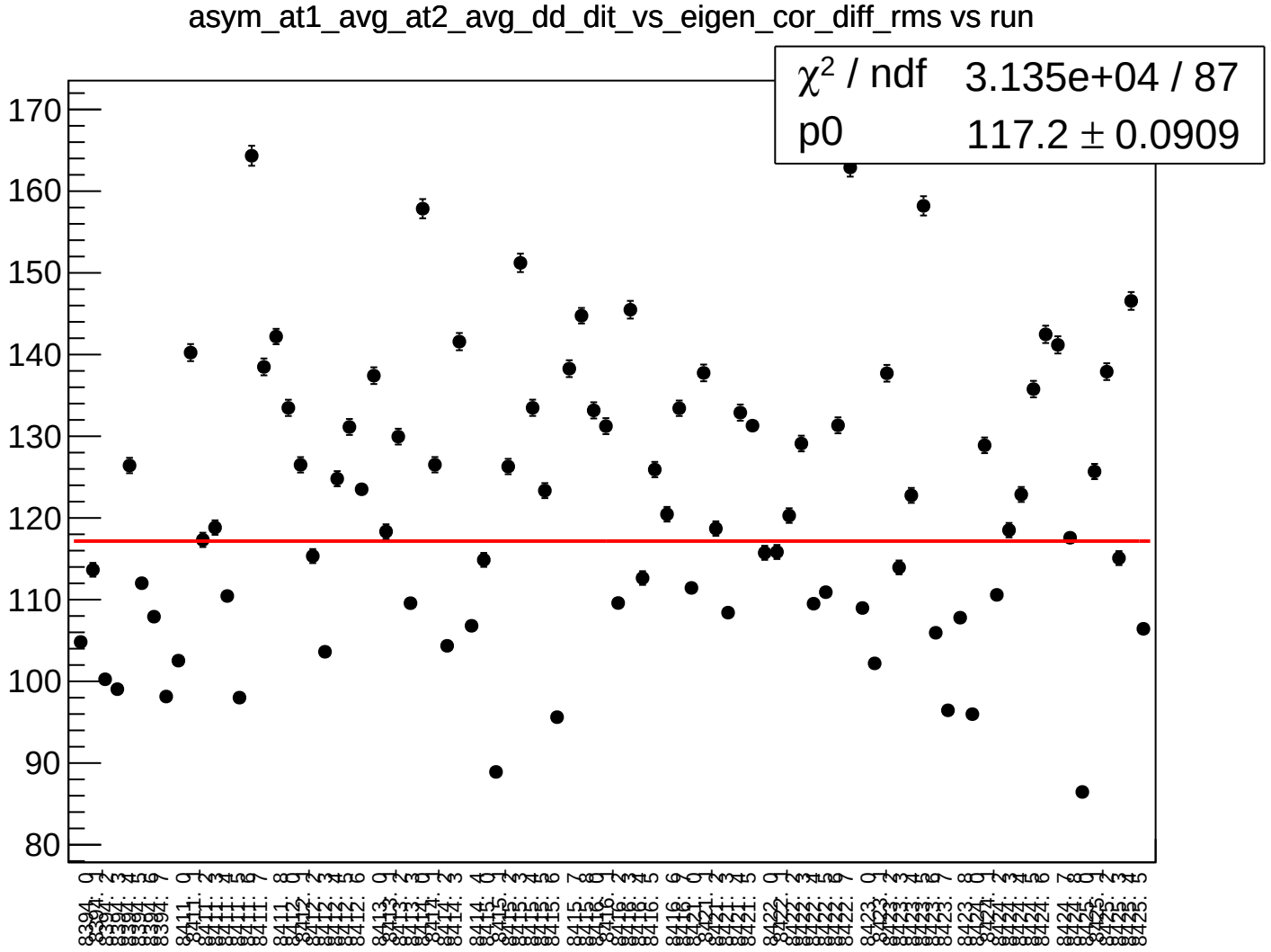

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 85.88 / 87
p0 −7.957e−13 ± 8.274e−13
0.01
0
−0.01
−0.02
−0.03
pull
Entries 88
Mean 59.23
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.01808
Std Dev 0.9877
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

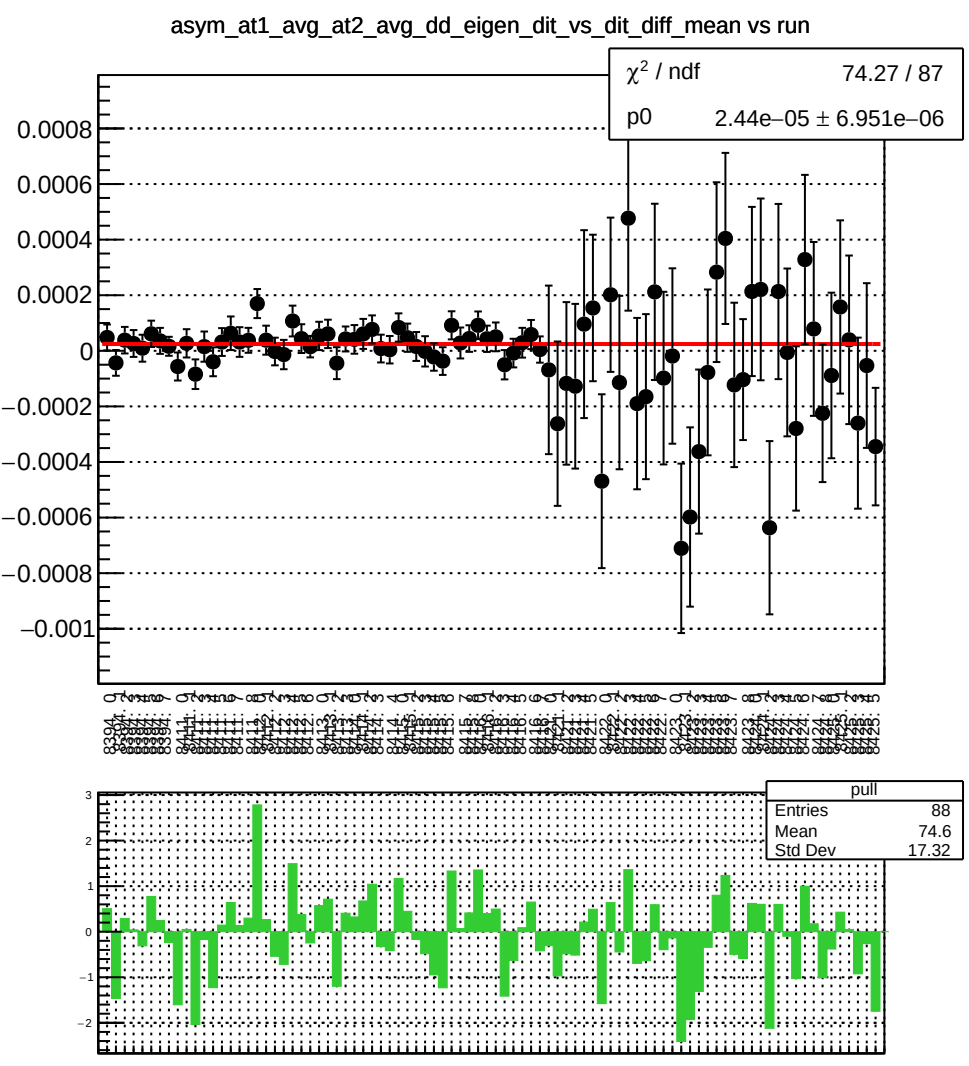

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.031e+06 / 87
p0 4.759e−10 ± 5.85e−13
1
0.8
0.6
0.4
0.2
0

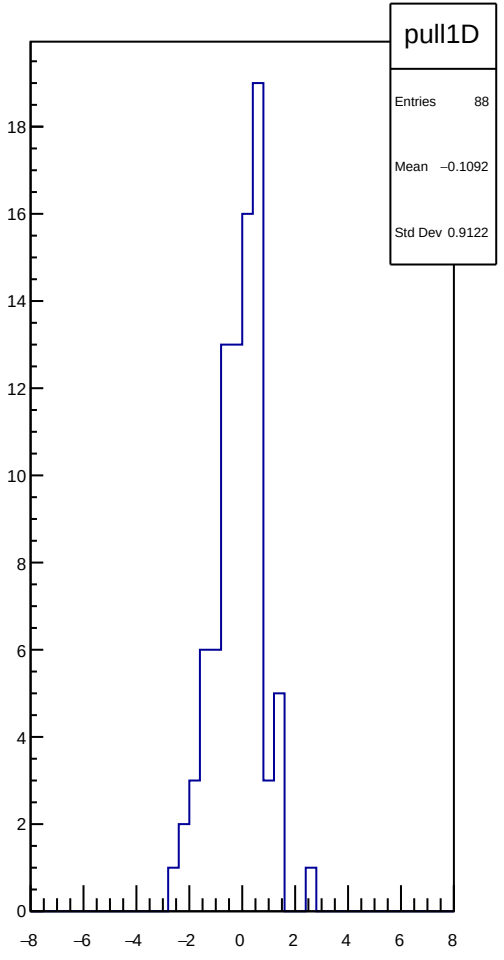

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.68 / 87
p0 0.111 ± 0.1286
pull
Entries 88
Mean −4890
Std Dev 0
pull1D
Entries 88
Mean 0.001384
Std Dev 1.009

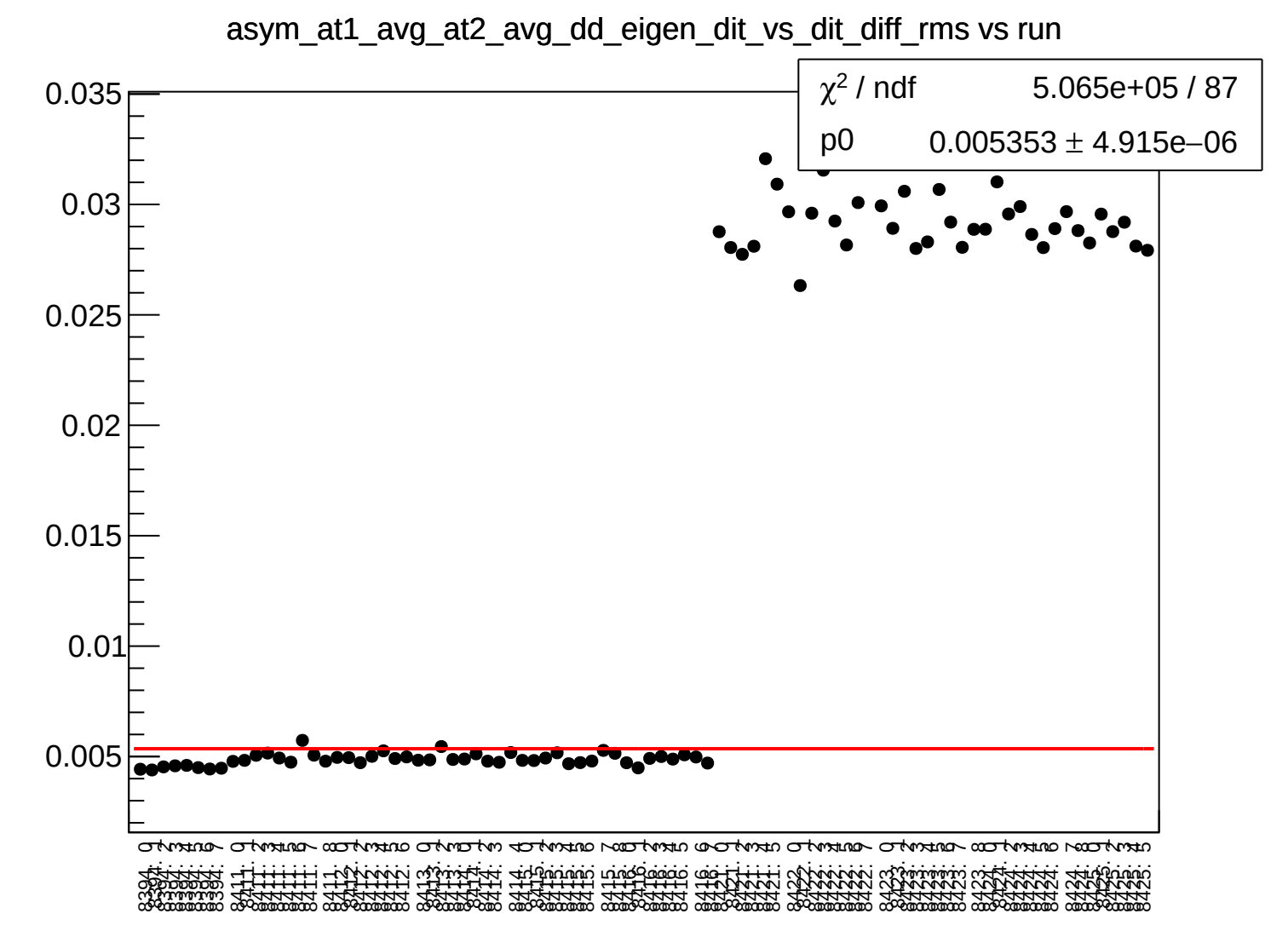

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.135e+04 / 87
p0 117.2 ± 0.0909
170
160
150
140
130
120
110
100
90
80

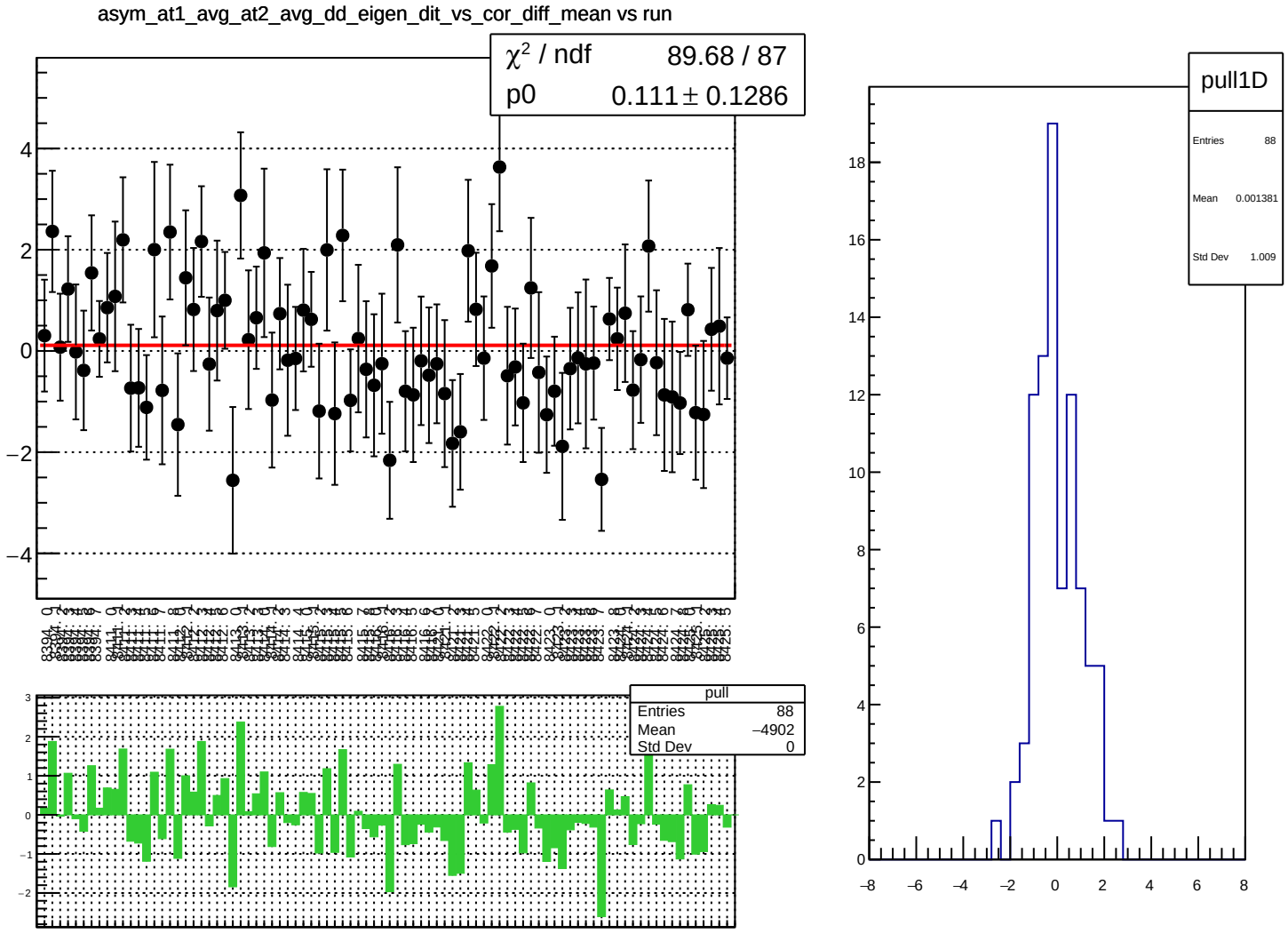

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.68 / 87
p0 0.111 ± 0.1286
pull
Entries 88
Mean −4890
Std Dev 0
pull1D
Entries 88
Mean 0.001384
Std Dev 1.009

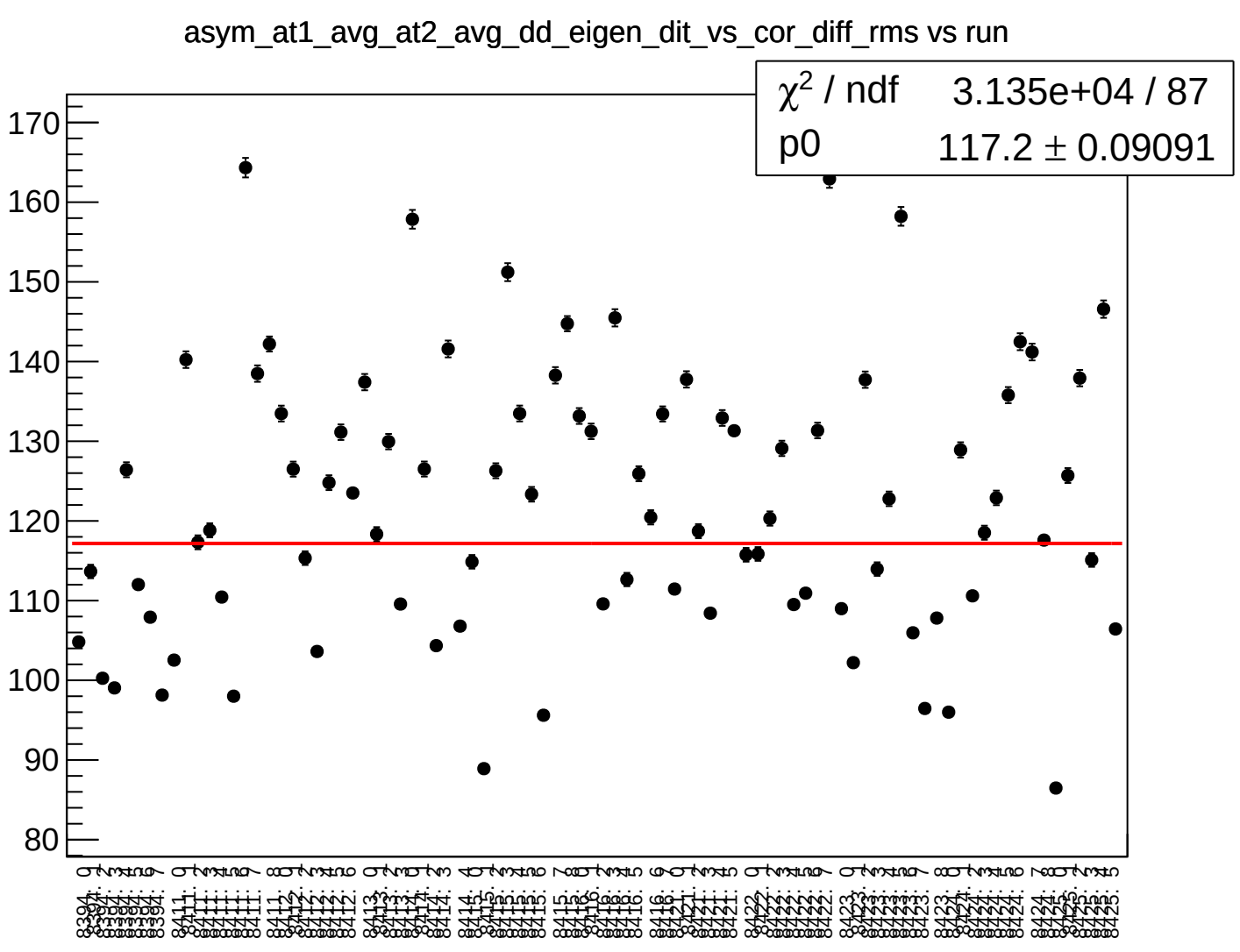

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.135e+04 / 87
p0 117.2 ± 0.0909
170
160
150
140
130
120
110
100
90
80

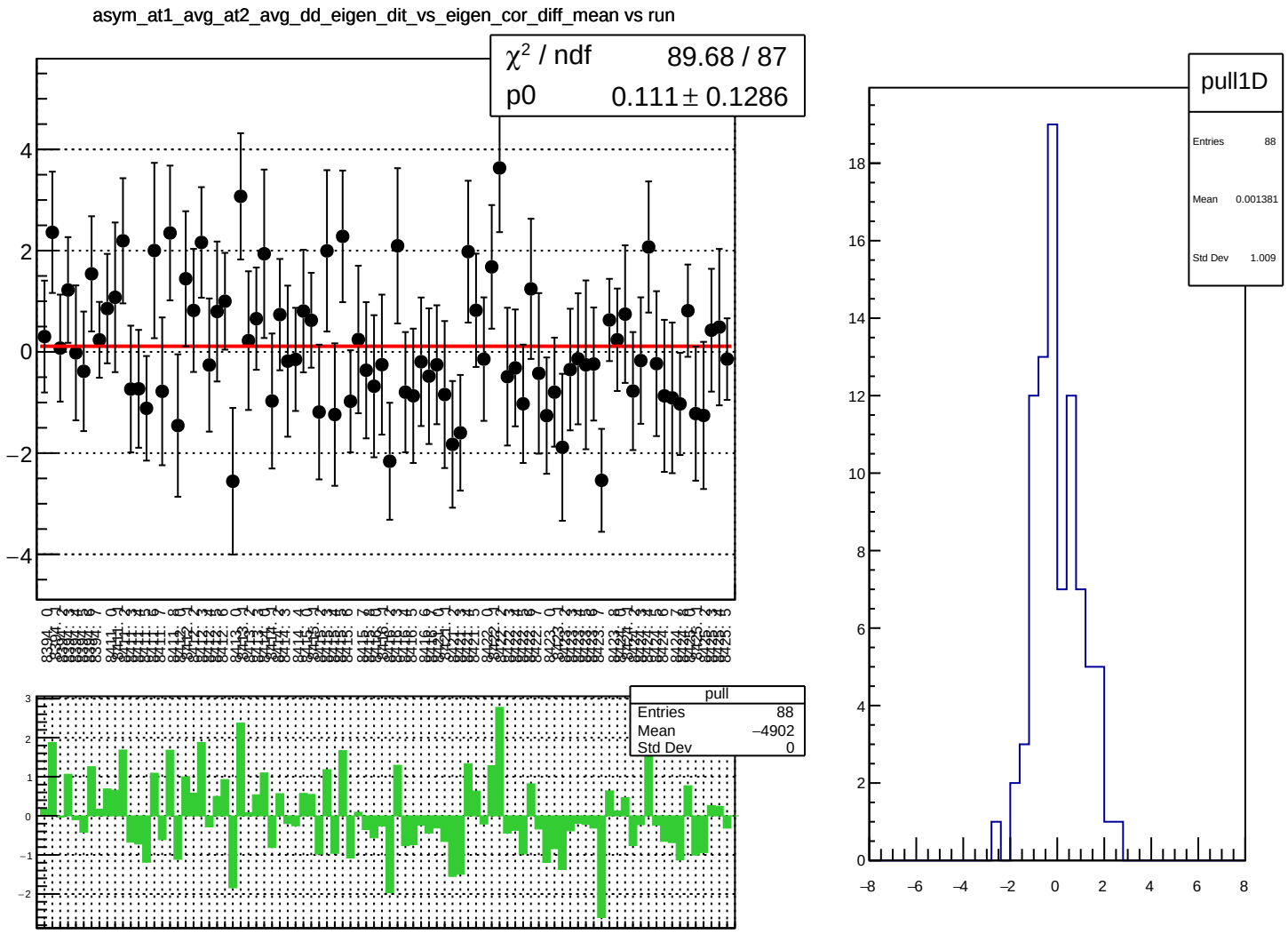

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 74.27 / 87
p0 2.44e−05 ± 6.951e−06
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 88
Mean 74.6
Std Dev 17.32
3
2
1
0
−1
−2

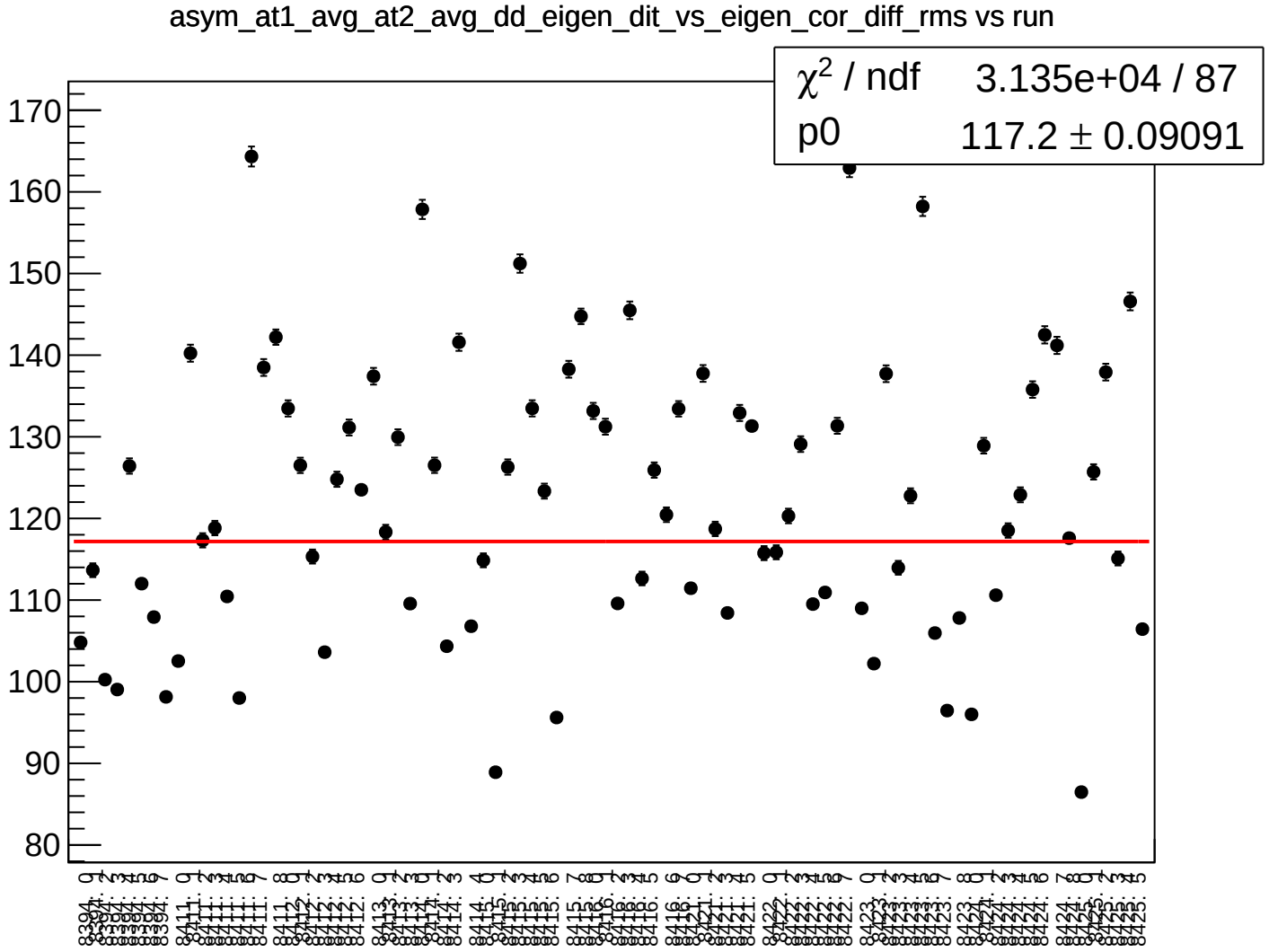

pull1D
Entries 88
Mean −0.1092
Std Dev 0.9122
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

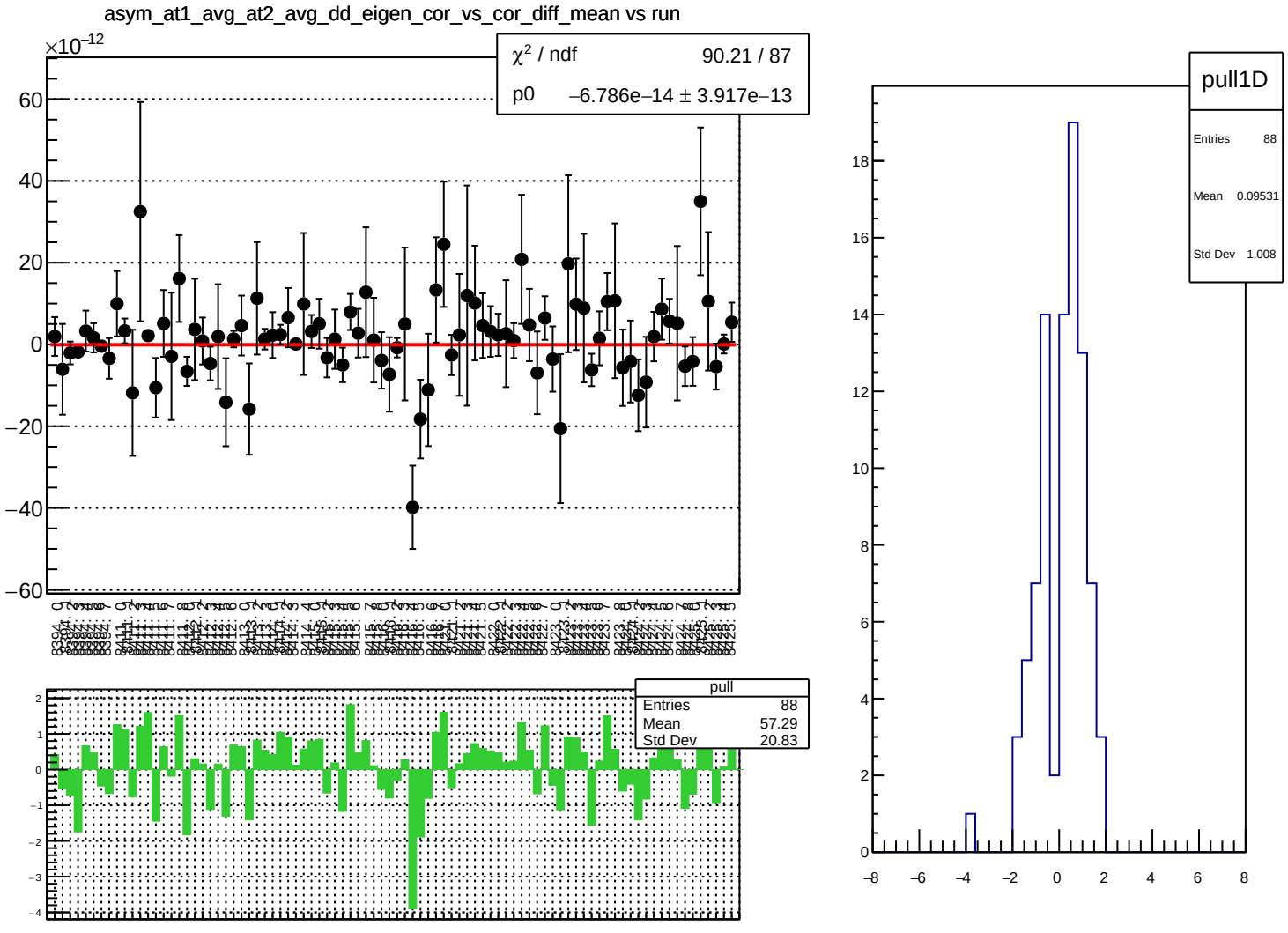

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.065e+05 / 87
p0 0.005353 ± 4.915e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

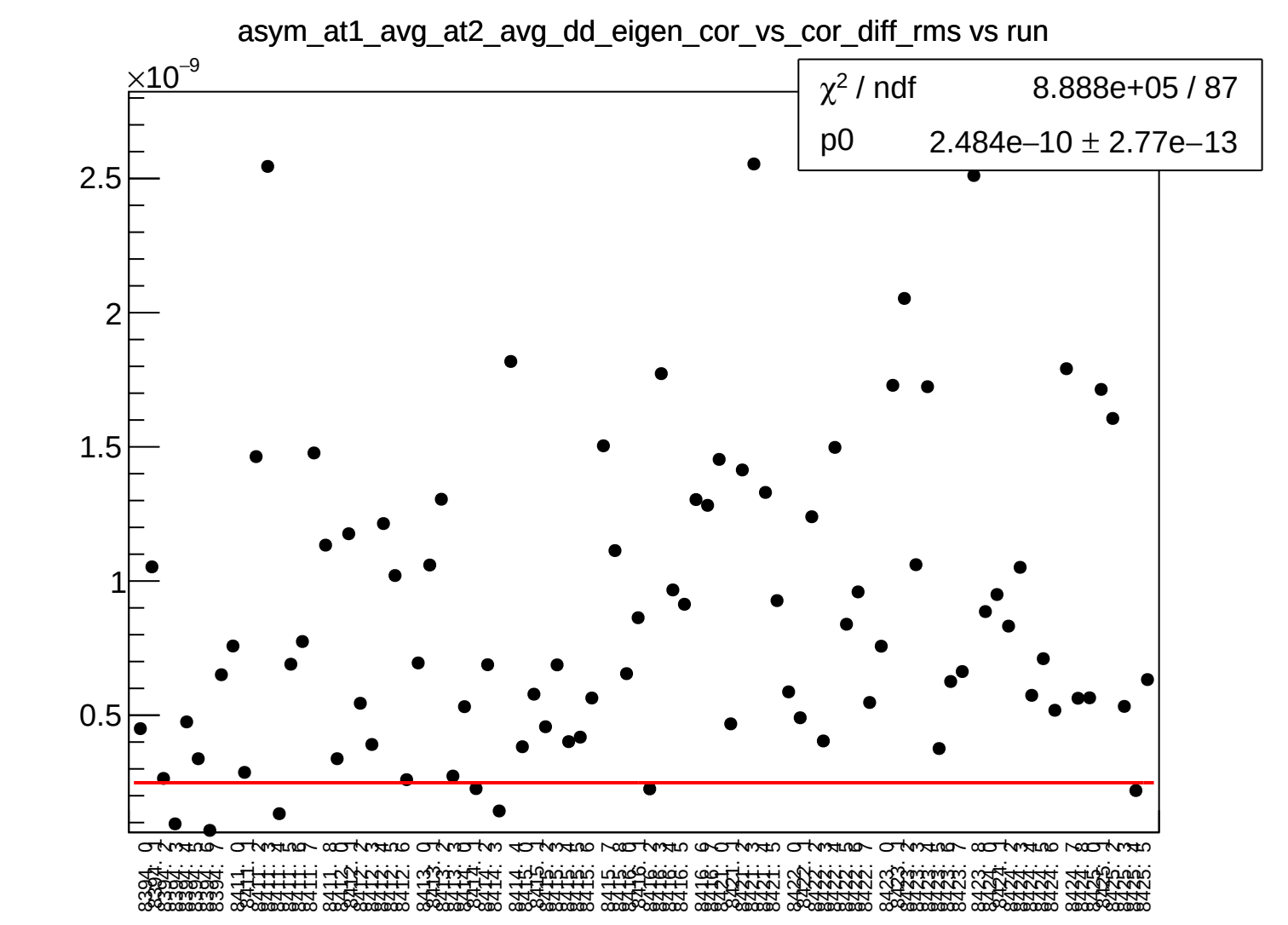

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.68 / 87
p0 0.111 ± 0.1286
pull
Entries 88
Mean −4902
Std Dev 0
pull1D
Entries 88
Mean 0.001381
Std Dev 1.009

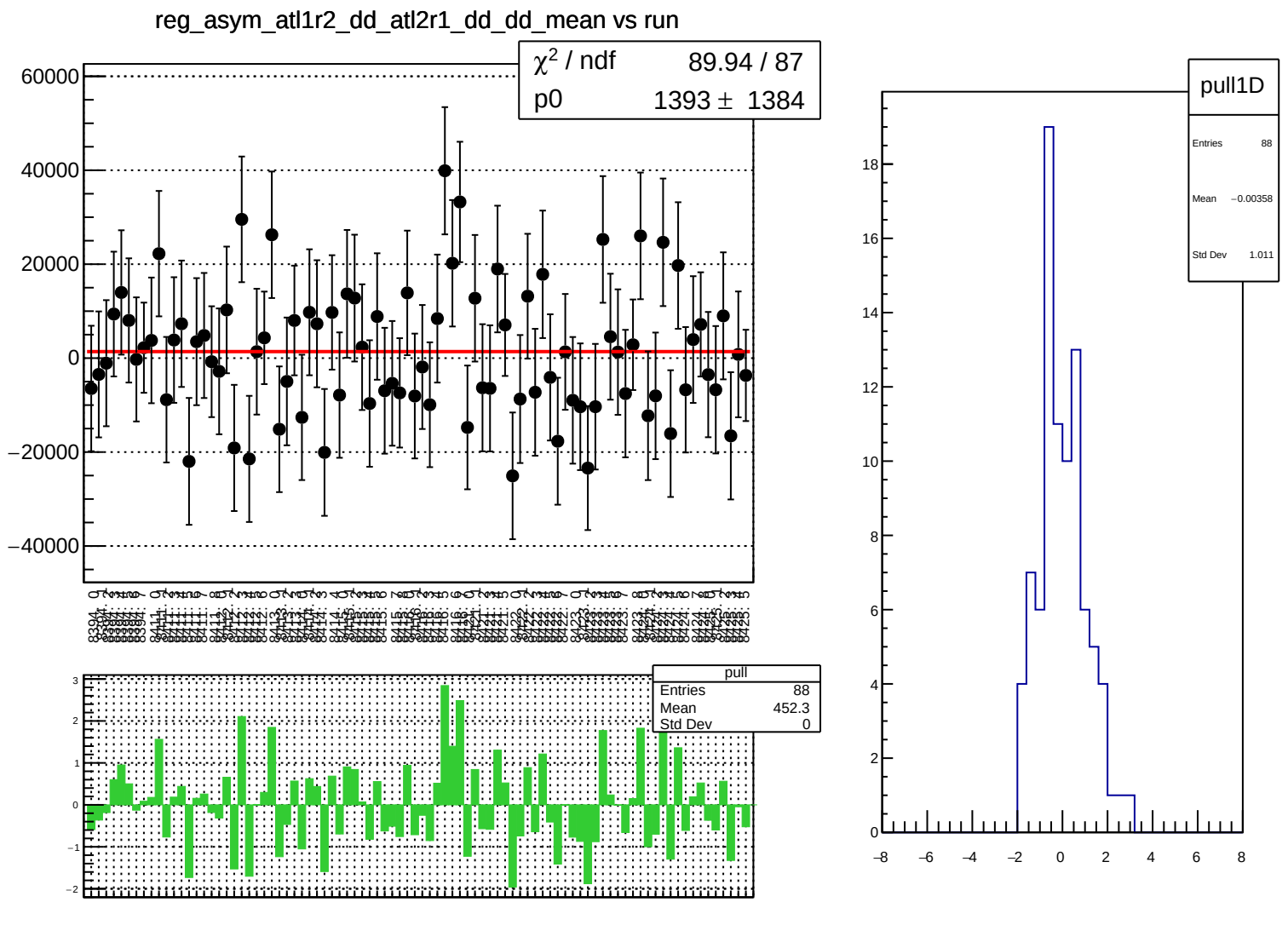

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.135e+04 / 87
p0 117.2 ± 0.09091
170
160
150
140
130
120
110
100
90
80

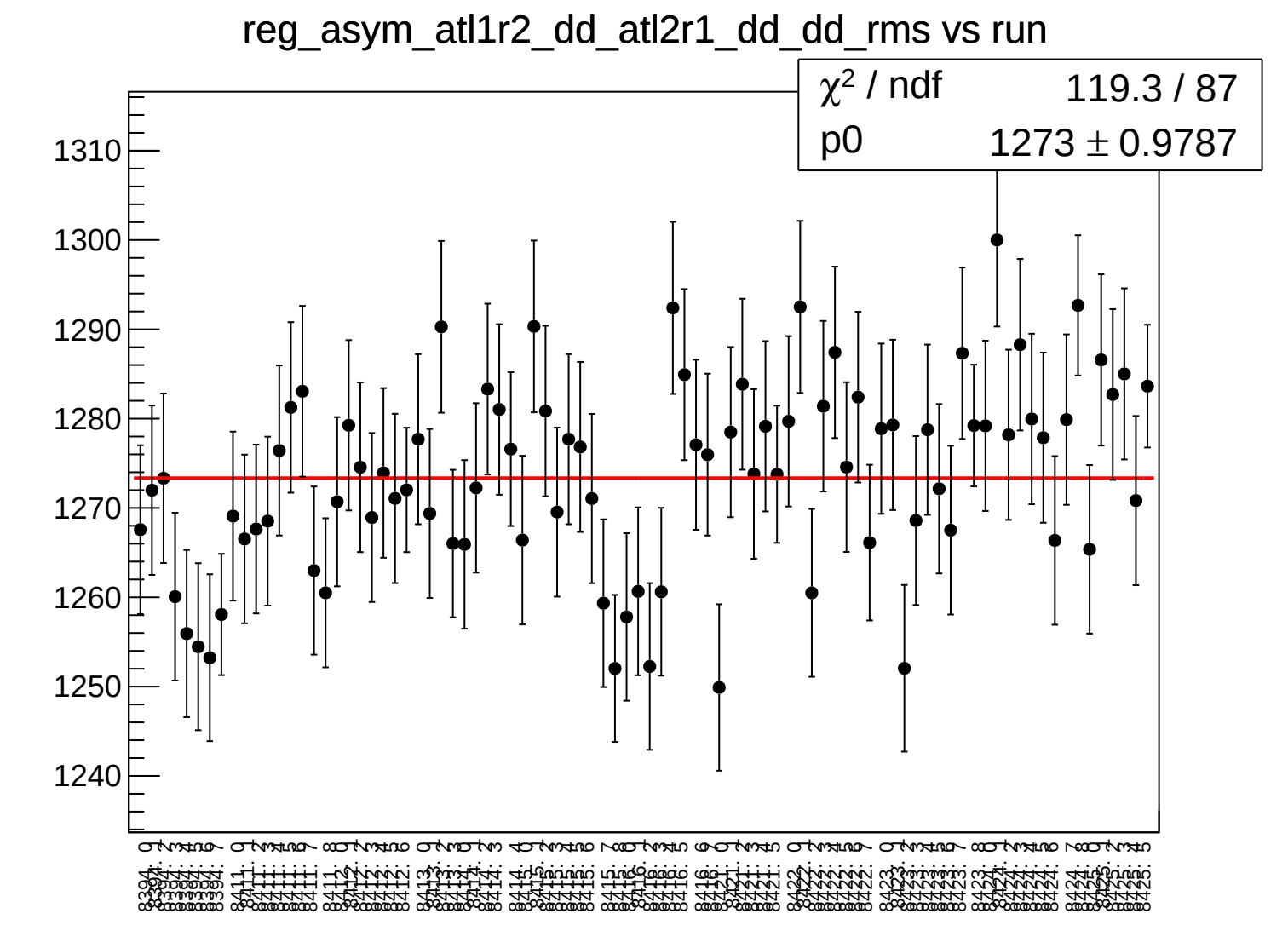

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.68 / 87
p0 0.111 ± 0.1286
pull
Entries 88
Mean −4902
Std Dev 0
pull1D
Entries 88
Mean 0.001381
Std Dev 1.009

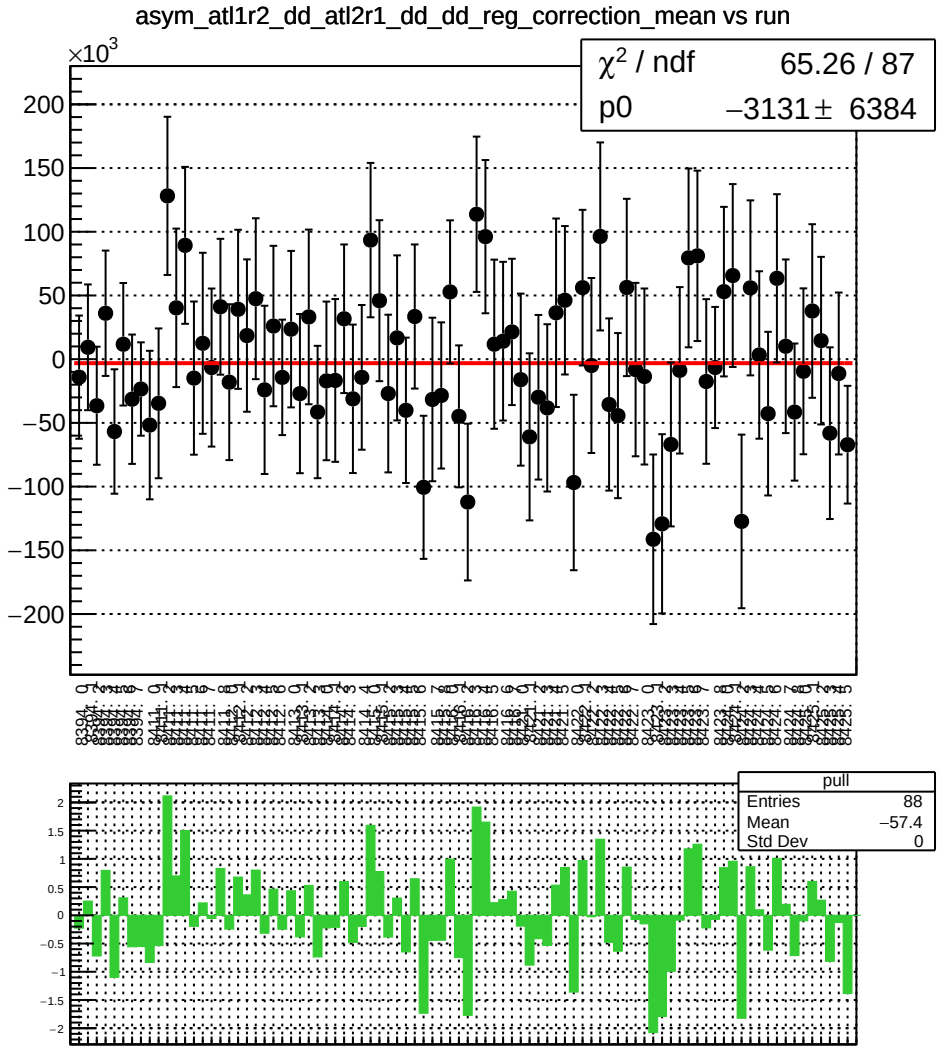

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.135e+04 / 87
p0 117.2 ± 0.09091
170
160
150
140
130
120
110
100
90
80

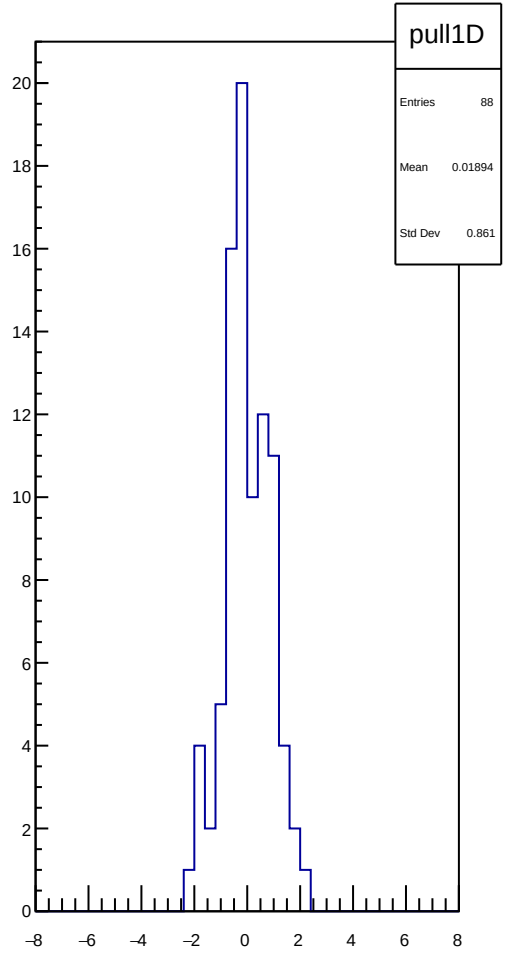

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.21 / 87
p0 −6.786e−14 ± 3.917e−13
pull
Entries 88
Mean 57.29
Std Dev 20.83
pull1D
Entries 88
Mean 0.09531
Std Dev 1.008

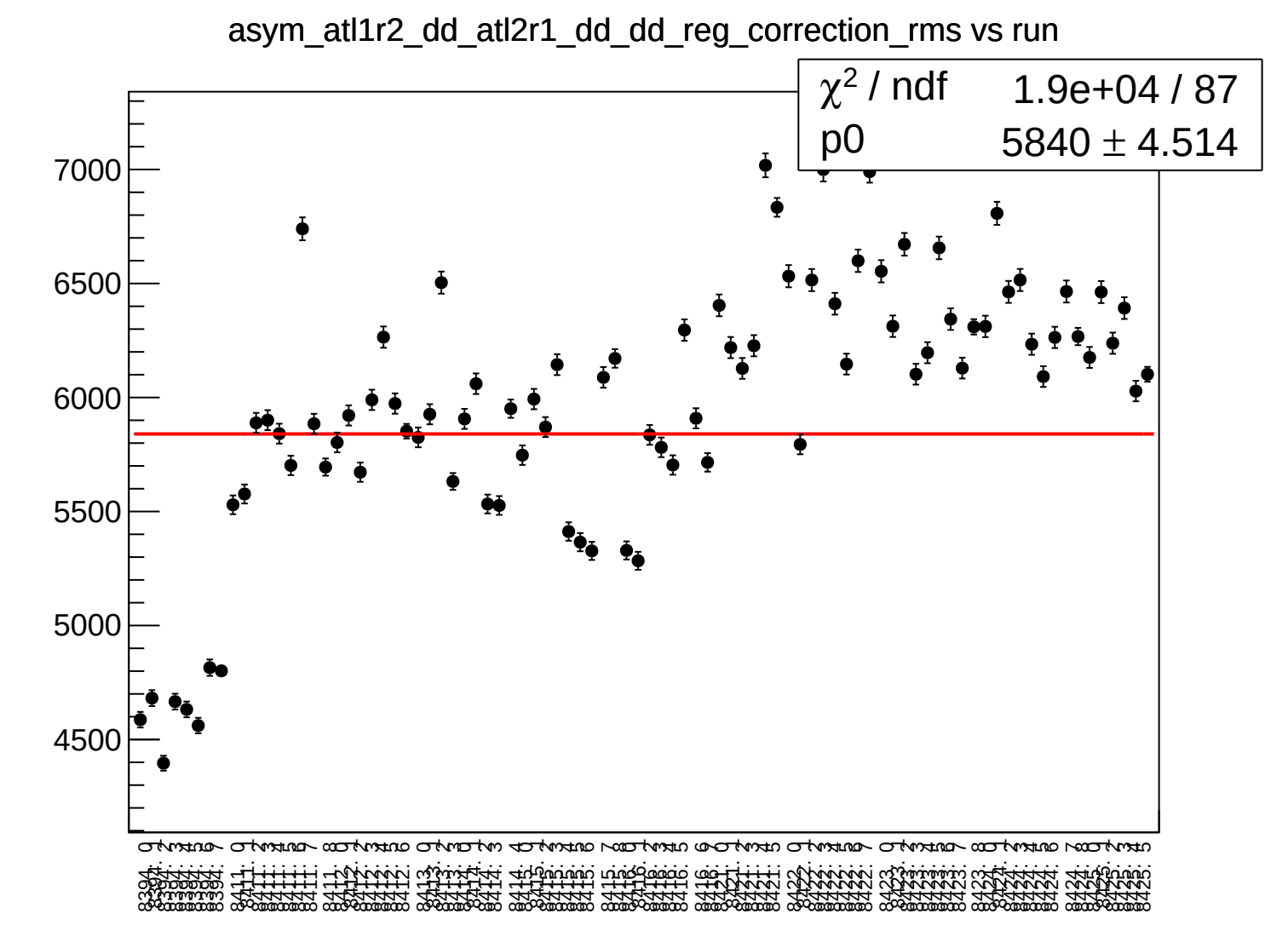

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.888e+05 / 87
p0 2.484e−10 ± 2.77e−13
2.5
2
1.5
1
0.5

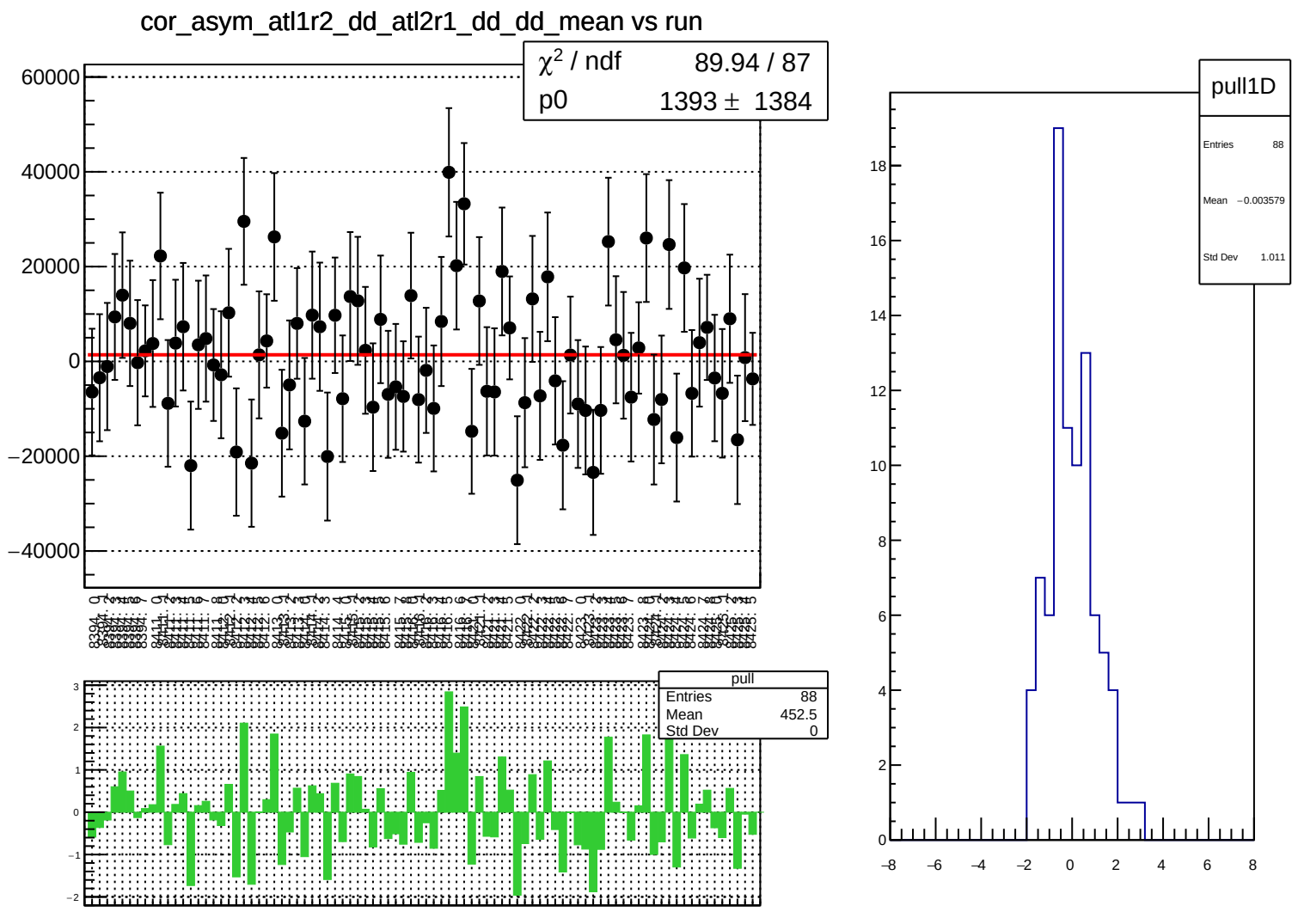

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 89.94 / 87
p0 1393 ± 1384
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 452.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.00358
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

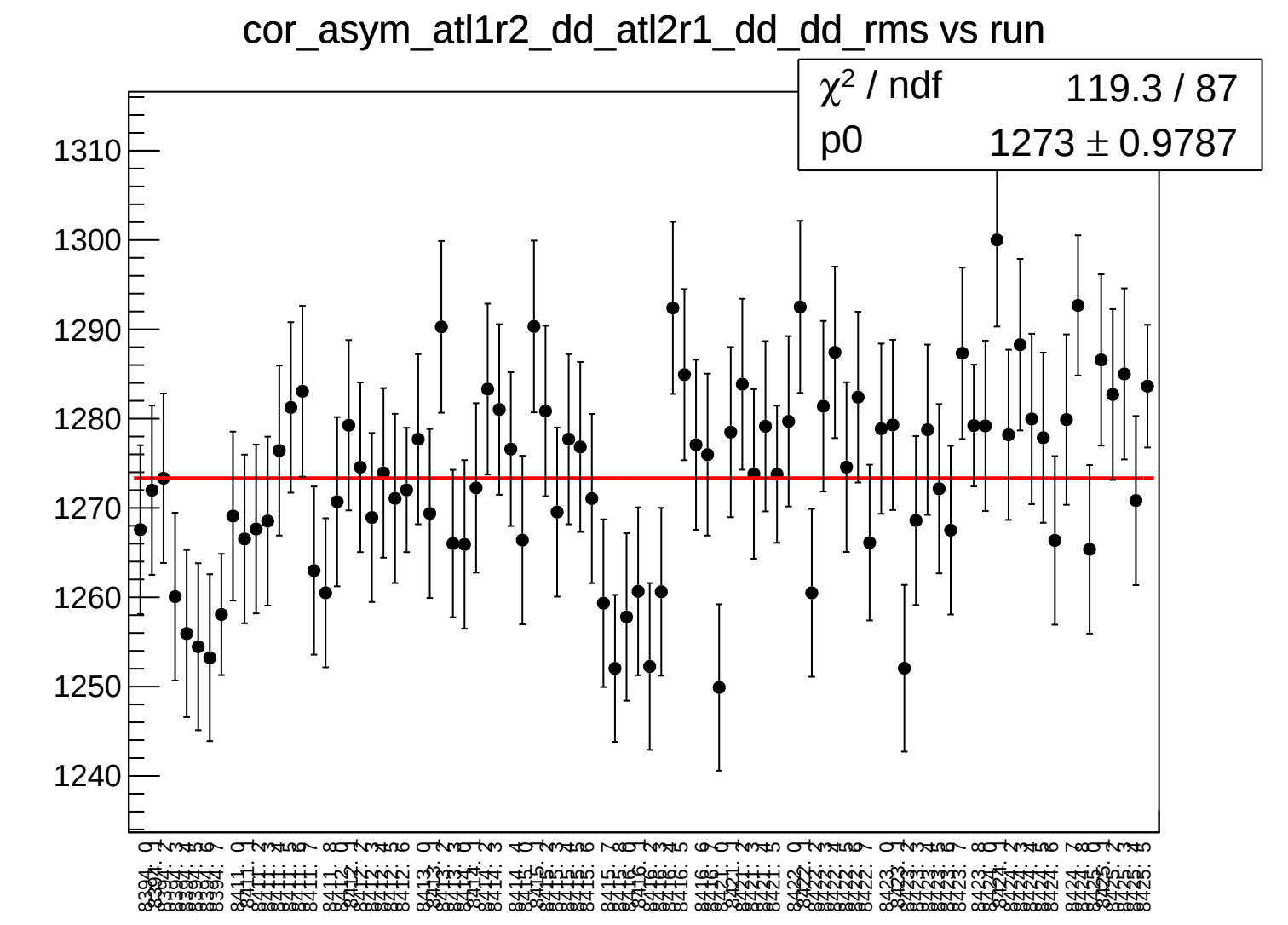

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 119.3 / 87
p0 1273 ± 0.9787
1310
1300
1290
1280
1270
1260
1250
1240

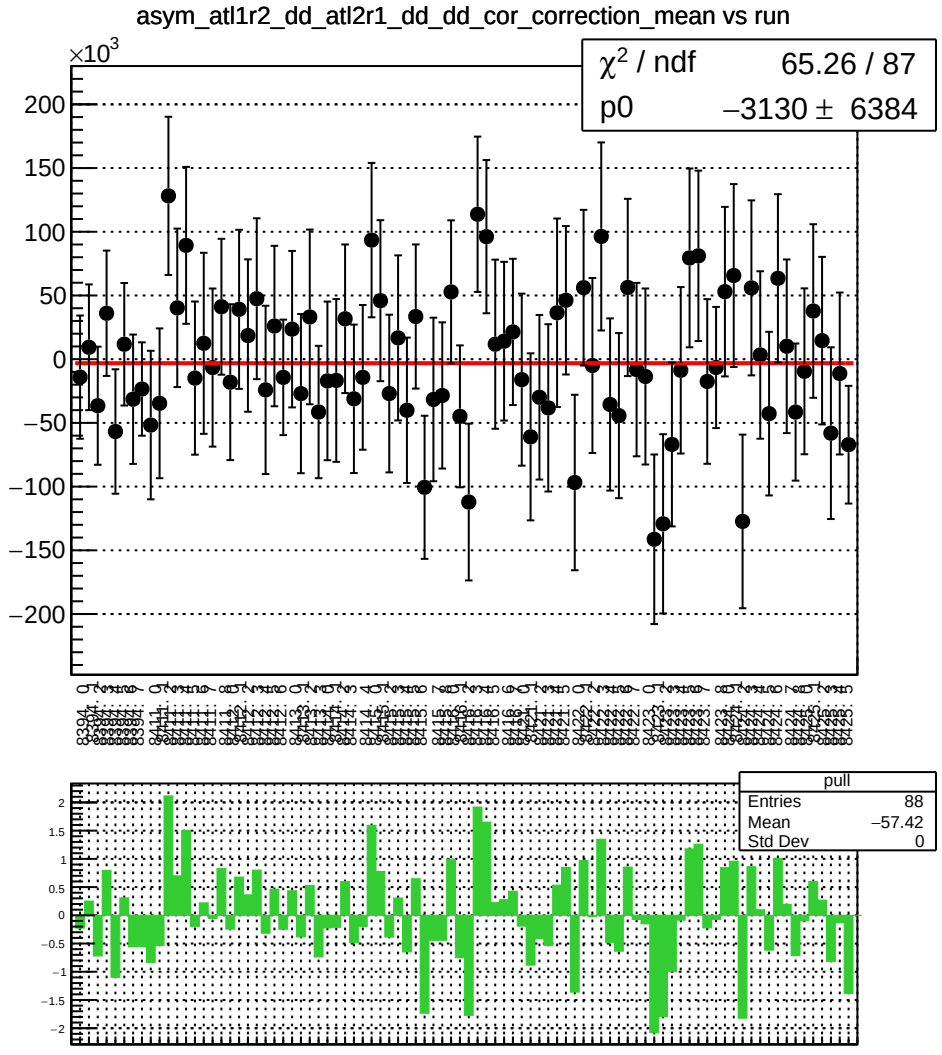

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 65.26 / 87
p0 −3131 ± 6384
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −57.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

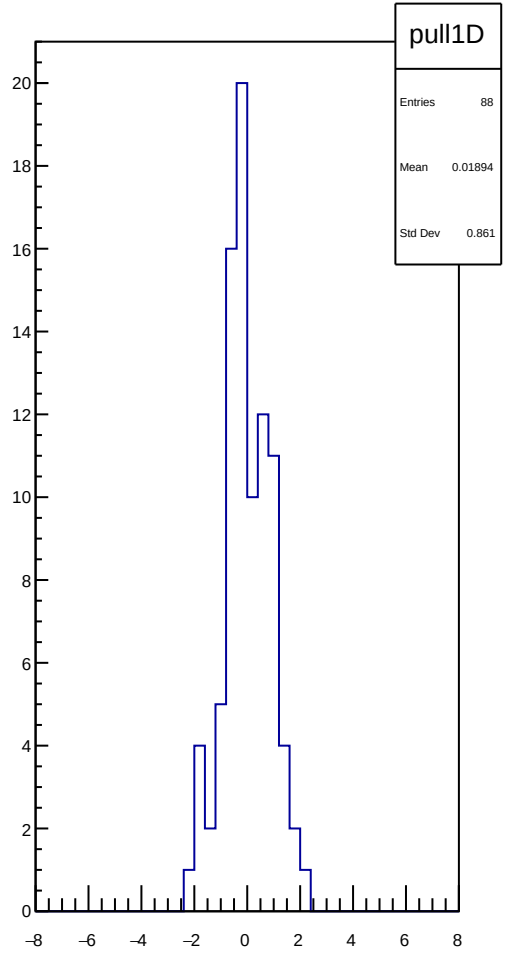

pull1D
Entries 88
Mean 0.01894
Std Dev 0.861
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

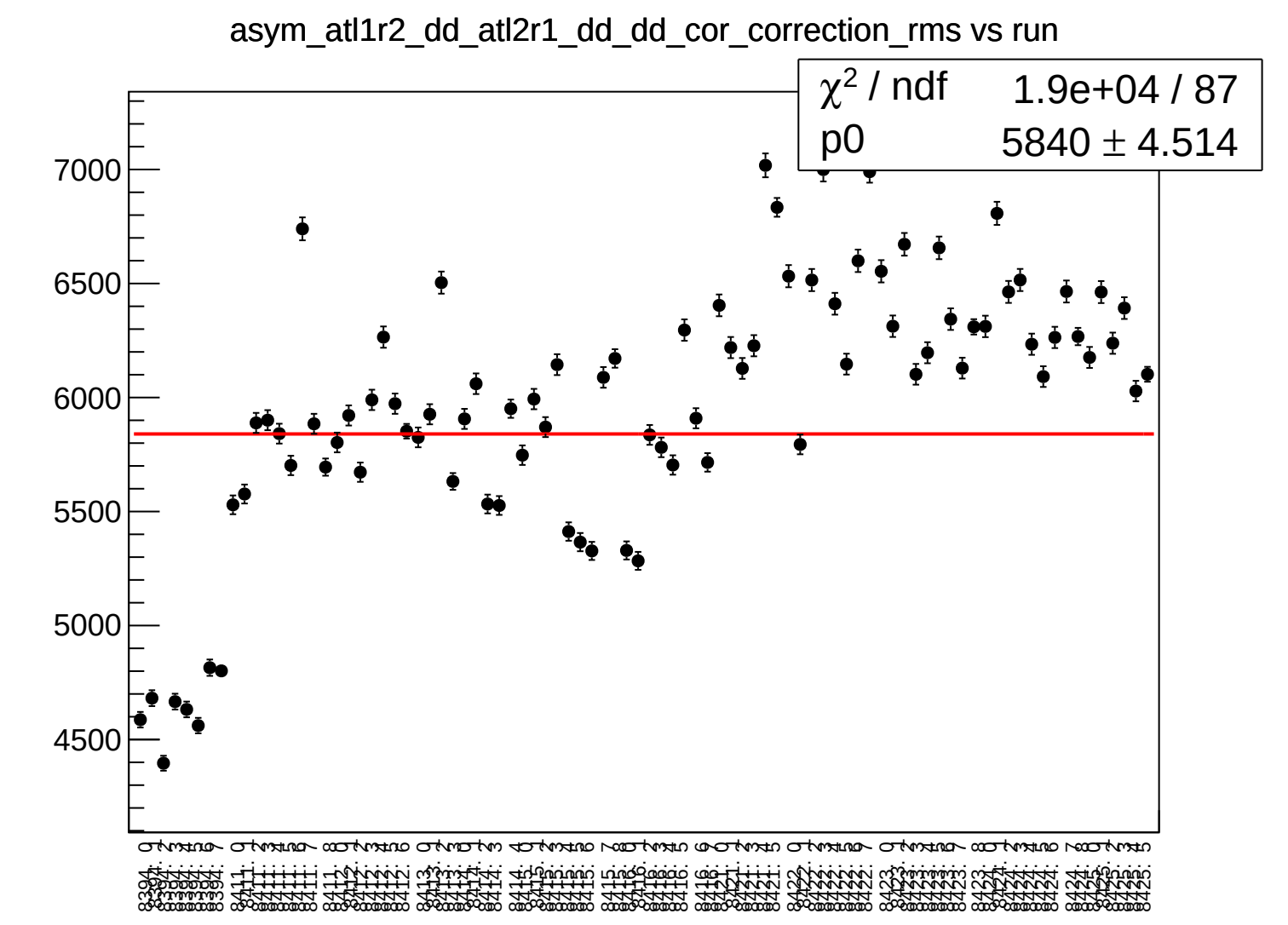

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 1.9e+04 / 87
p0 5840 ± 4.514
7000
6500
6000
5500
5000
4500

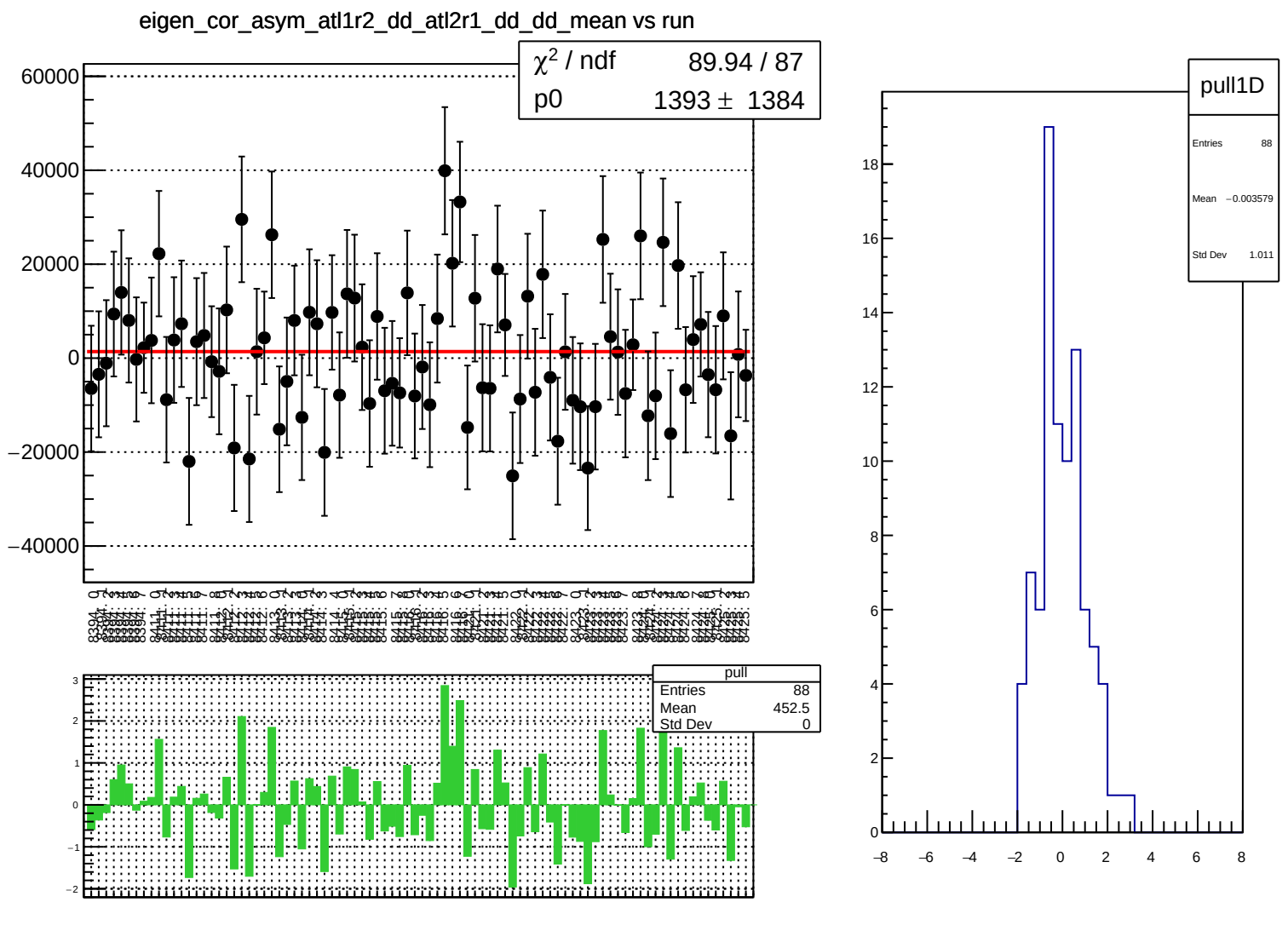

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 89.94 / 87
p0 1393 ± 1384
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 452.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.003579
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

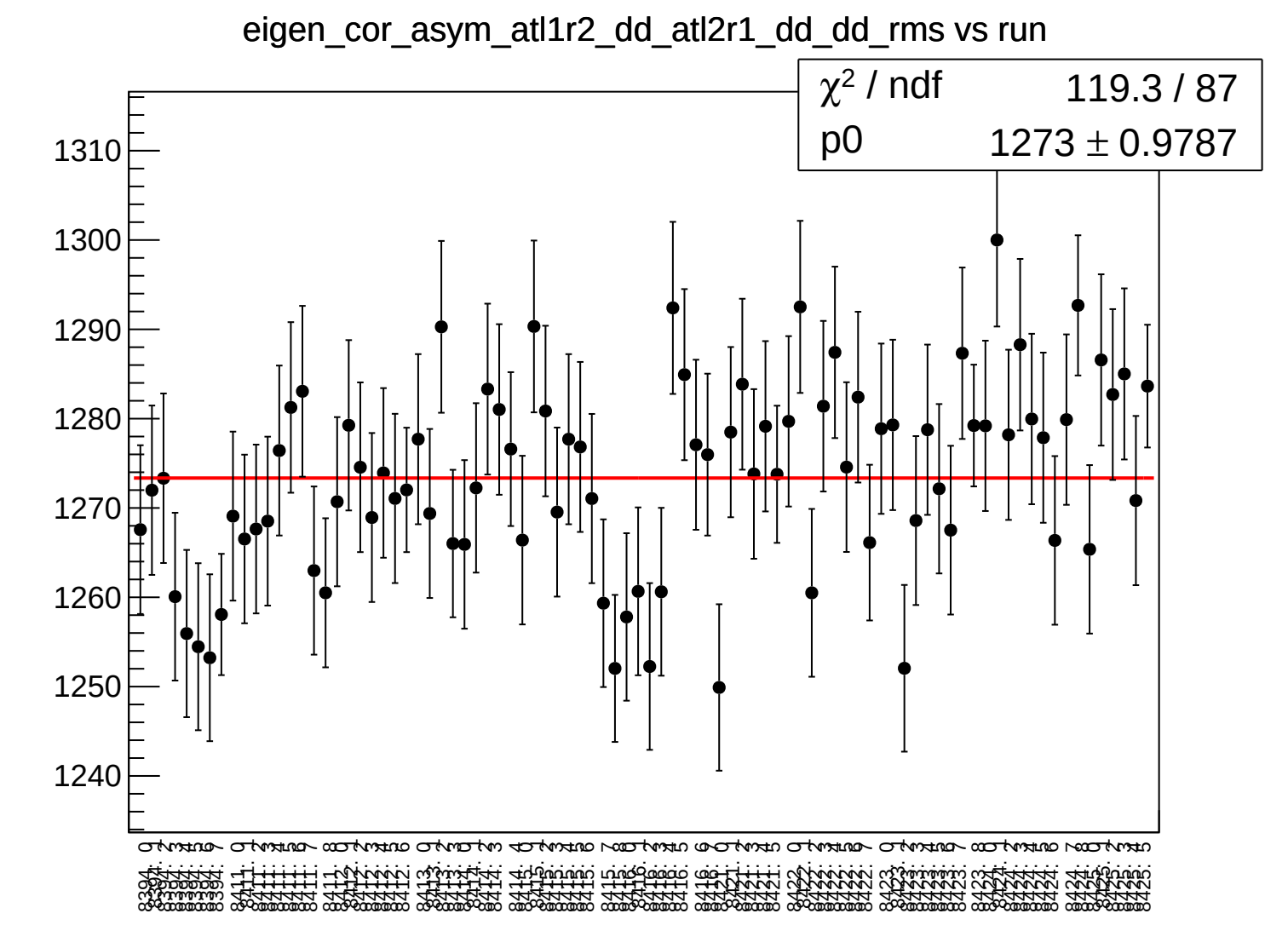

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ^2 / ndf 119.3 / 87
p0 1273 ± 0.9787
1310
1300
1290
1280
1270
1260
1250
1240

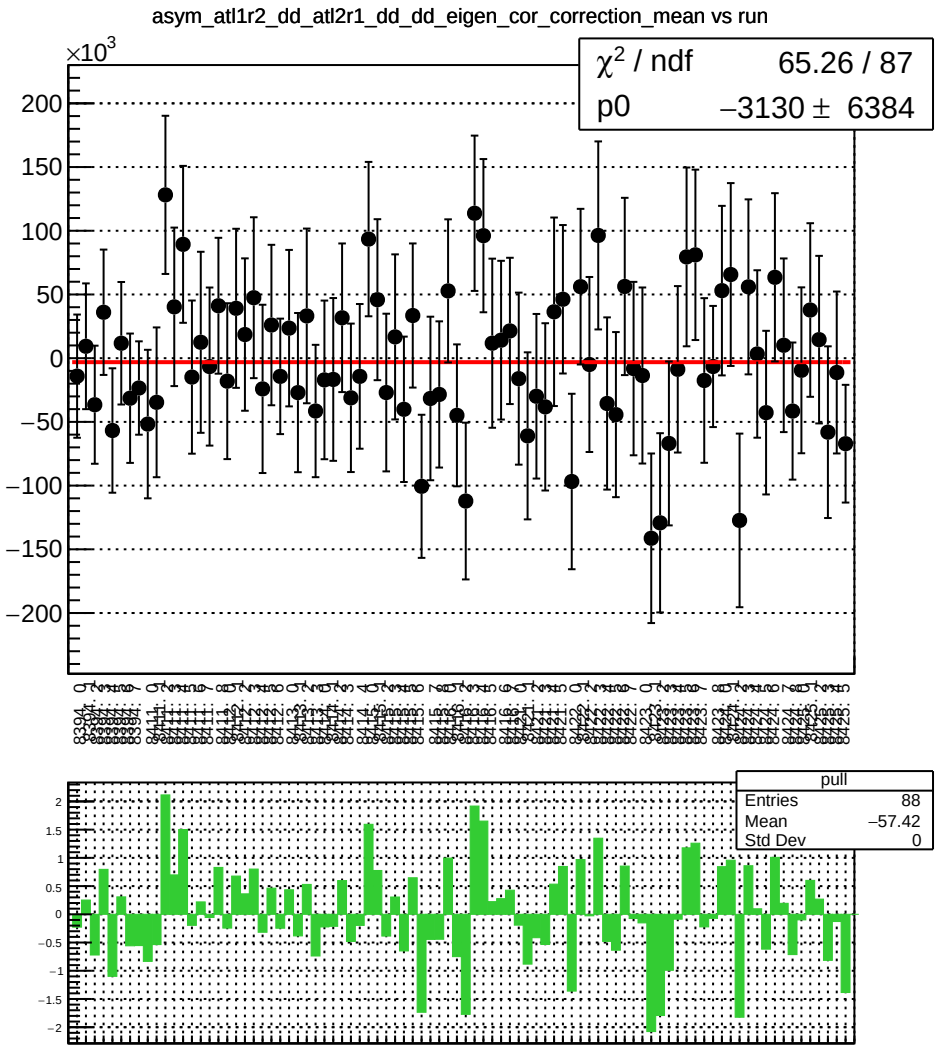

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 65.26 / 87
p0 −3130 ± 6384
pull
Entries 88
Mean −57.42
Std Dev 0

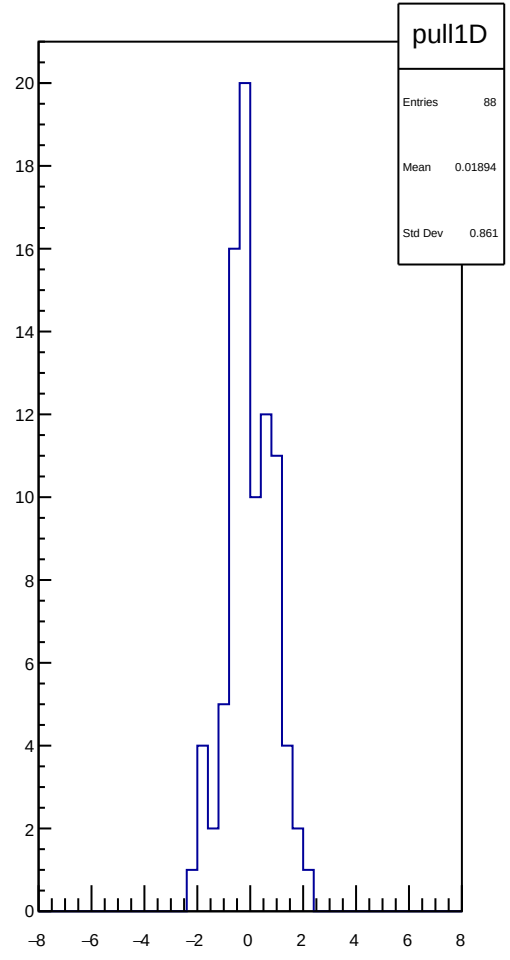

pull1D
Entries 88
Mean 0.01894
Std Dev 0.861

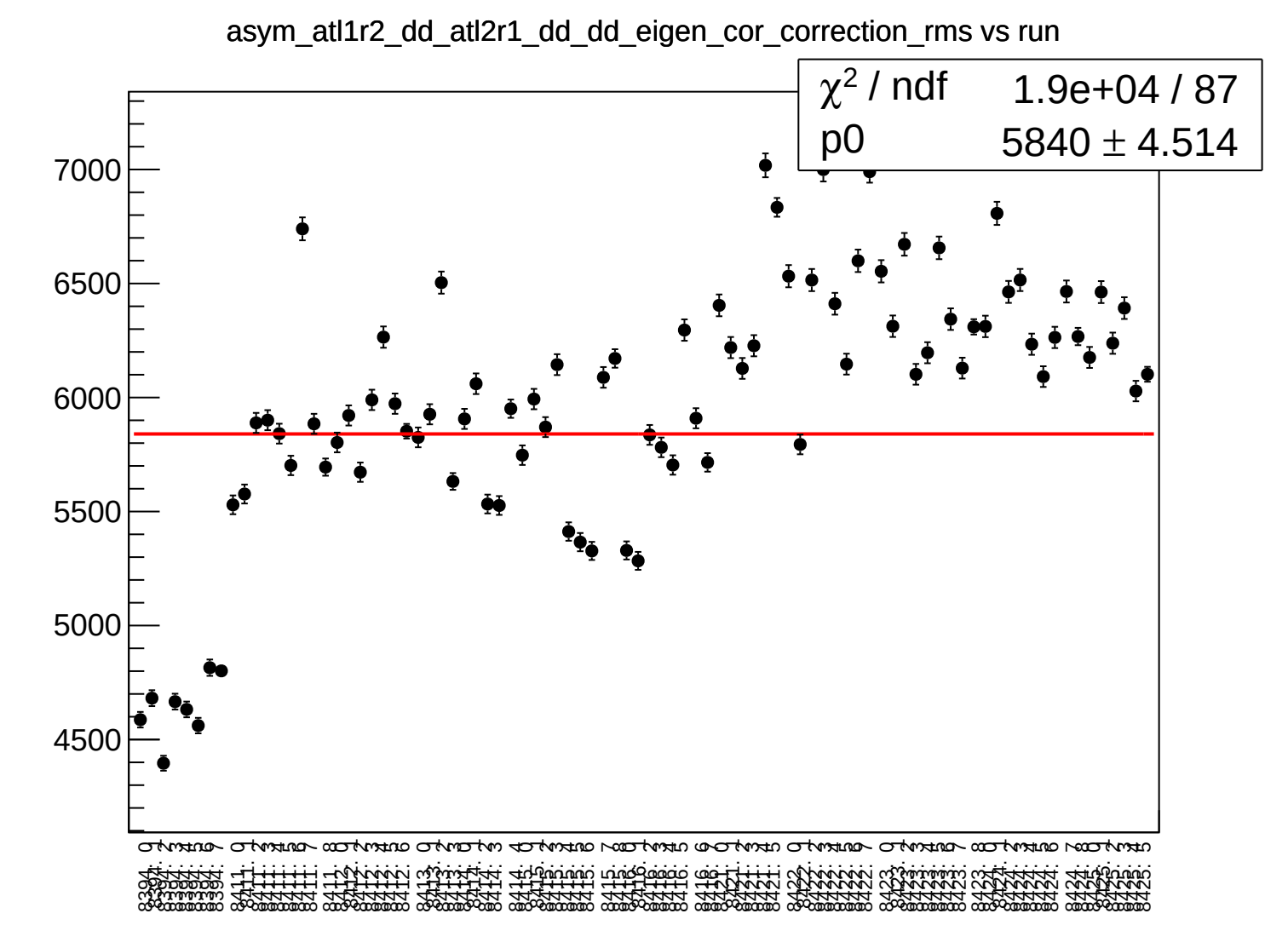

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 1.9e+04 / 87
p0 5840 ± 4.514
7000
6500
6000
5500
5000
4500

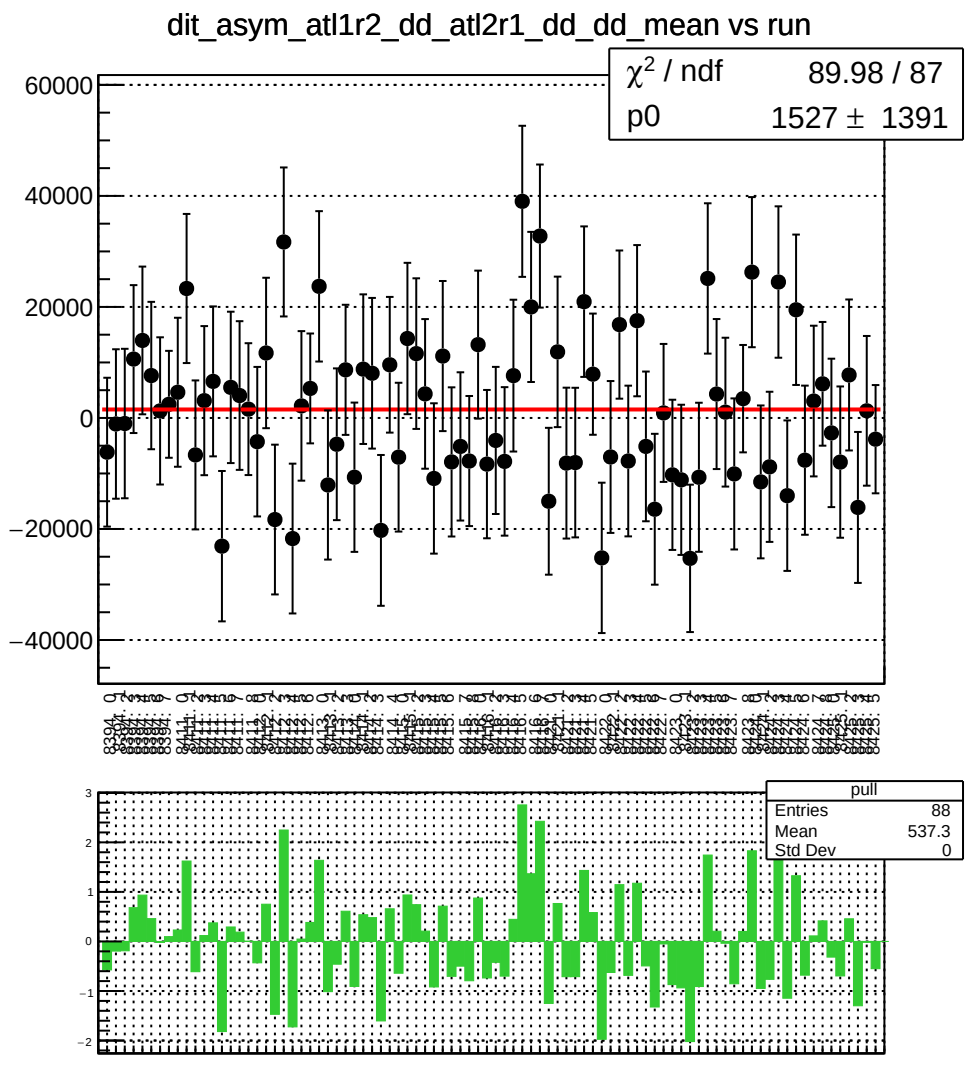

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 89.94 / 87
p0 1393 ± 1384
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 452.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.003579
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

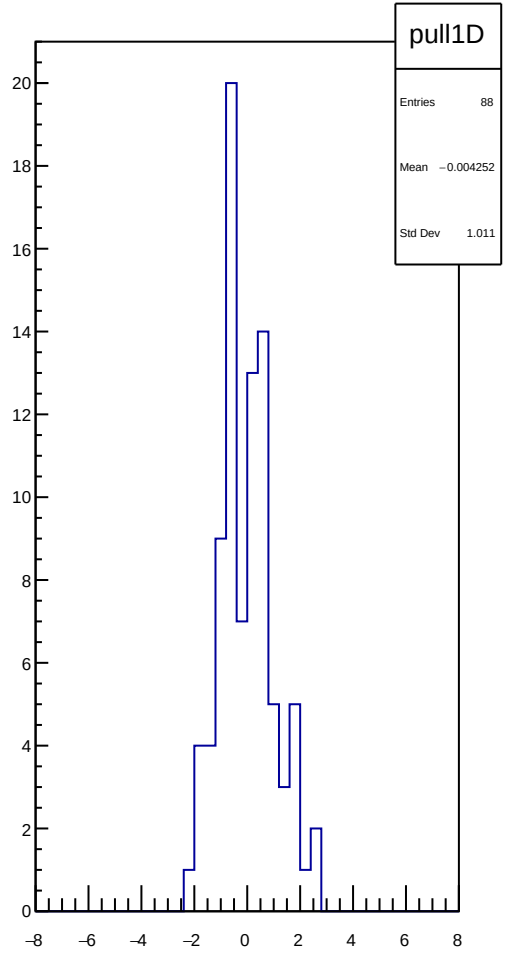

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ^2 / ndf 119.3 / 87
p0 1273 ± 0.9787
1310
1300
1290
1280
1270
1260
1250
1240

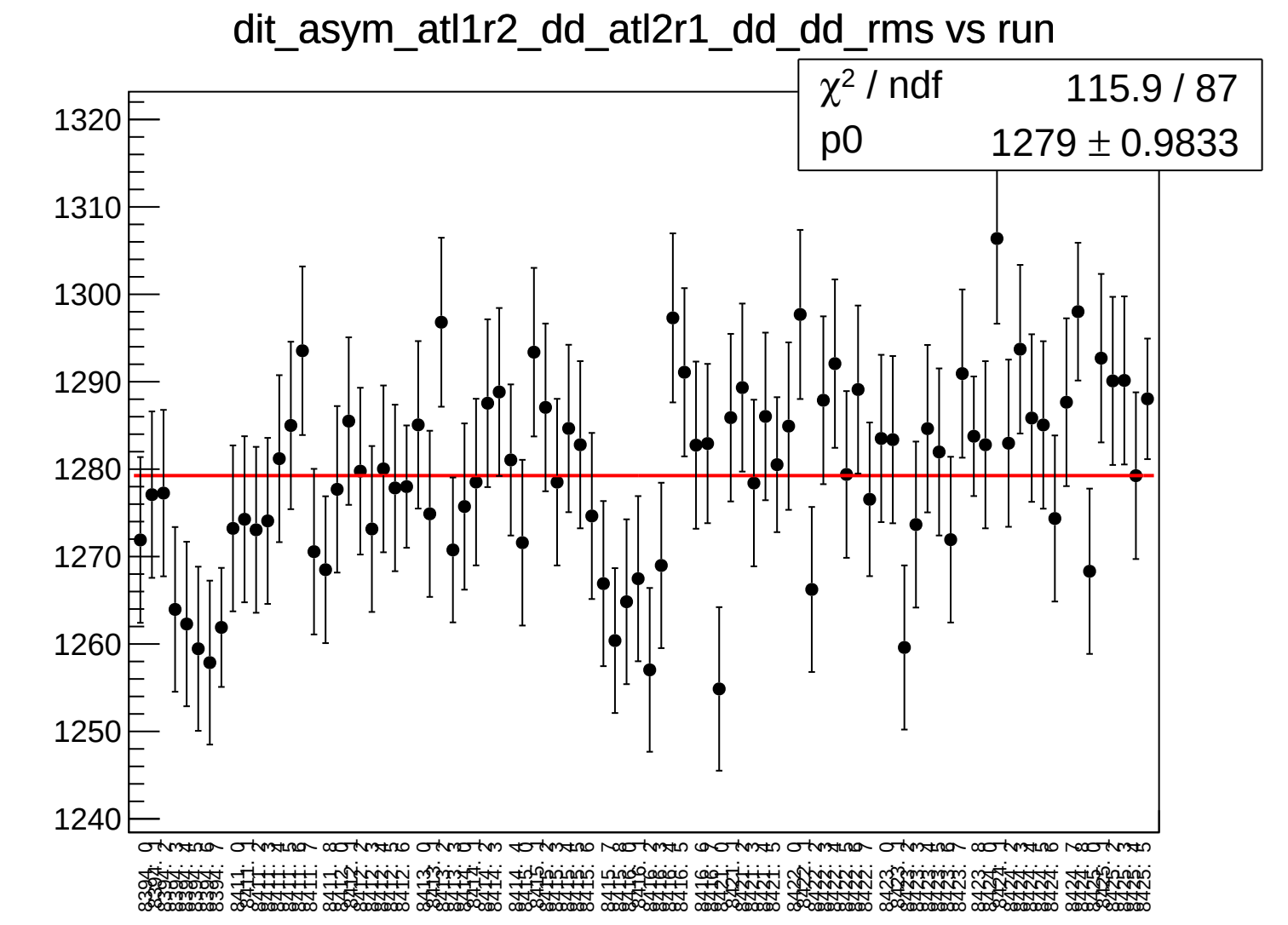

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 65.26 / 87
p0 −3130 ± 6384
pull
Entries 88
Mean −57.42
Std Dev 0

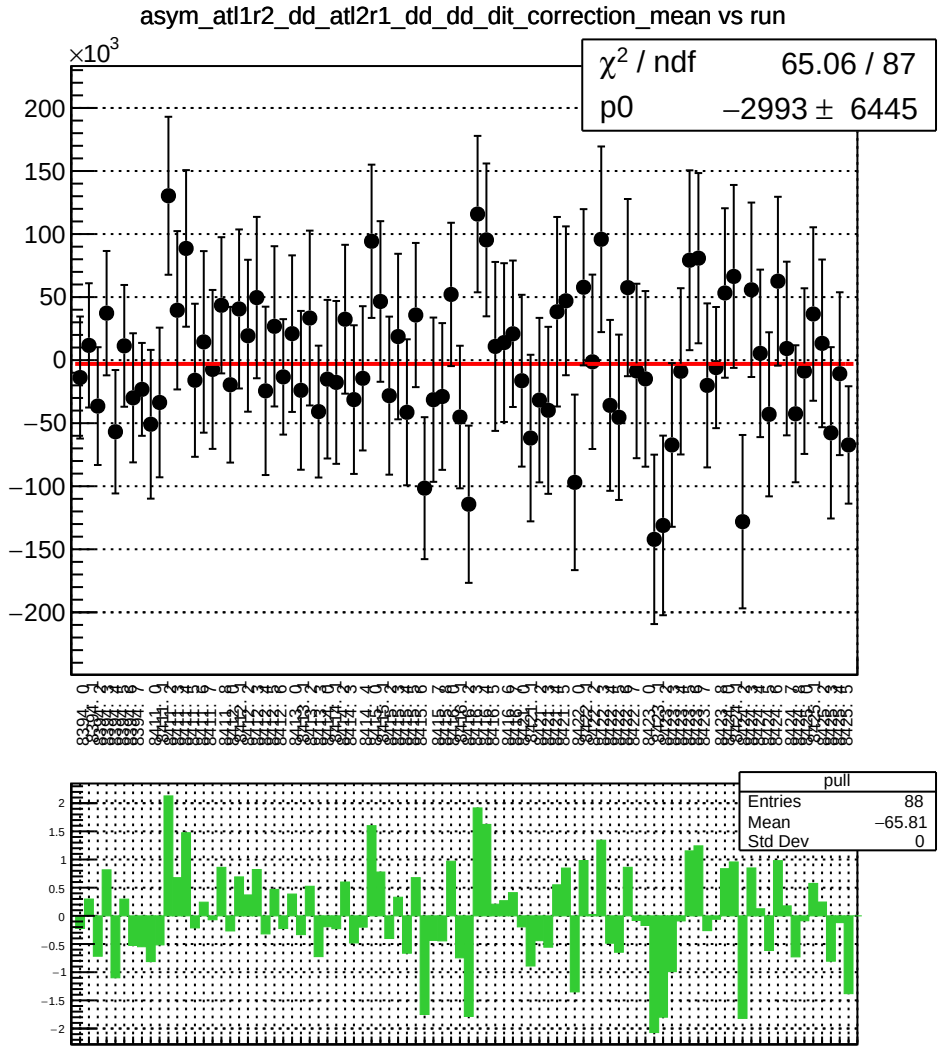

pull1D
Entries 88
Mean 0.01894
Std Dev 0.861

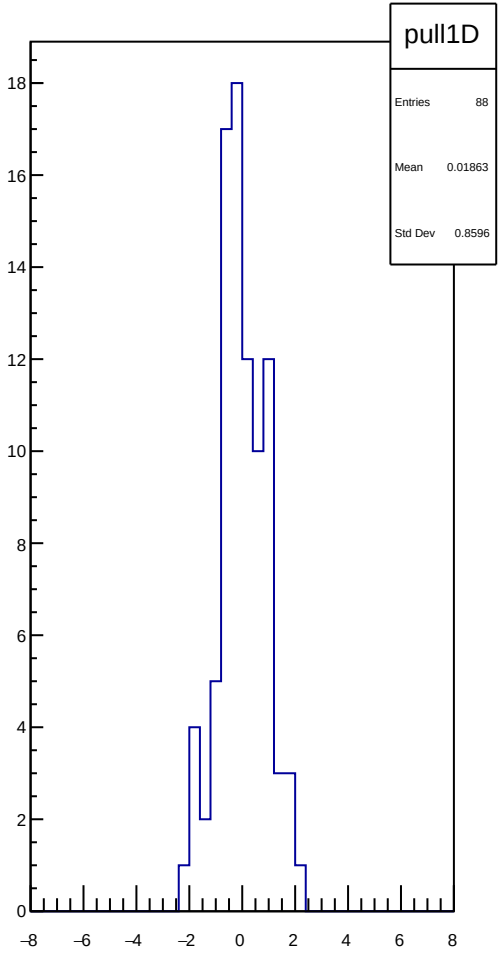

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.9e+04 / 87
p0 5840 ± 4.514
7000
6500
6000
5500
5000
4500

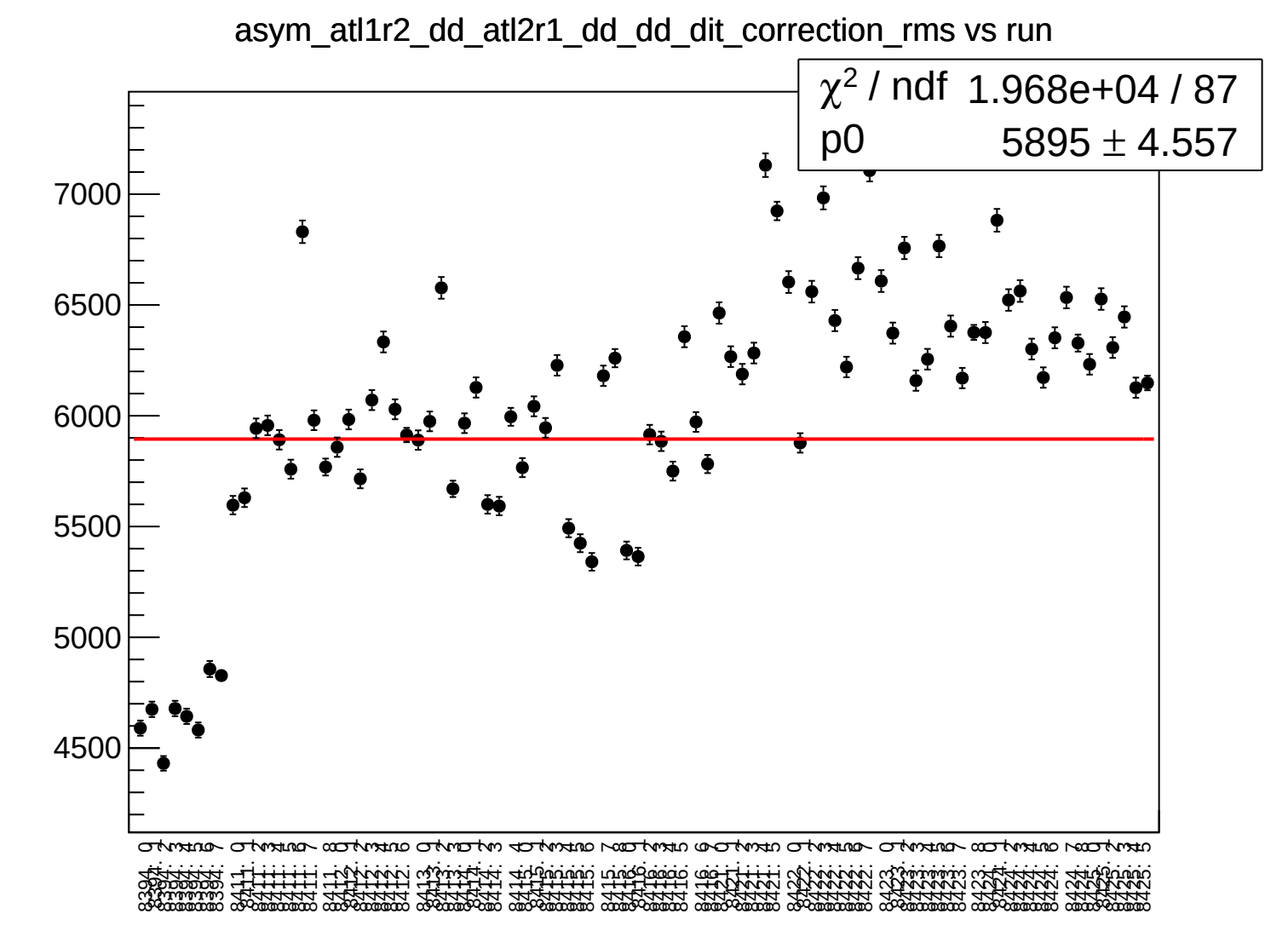

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 89.98 / 87
p0 1527 ± 1391
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 537.3
Std Dev 0
3
2
1
0
−1
−2

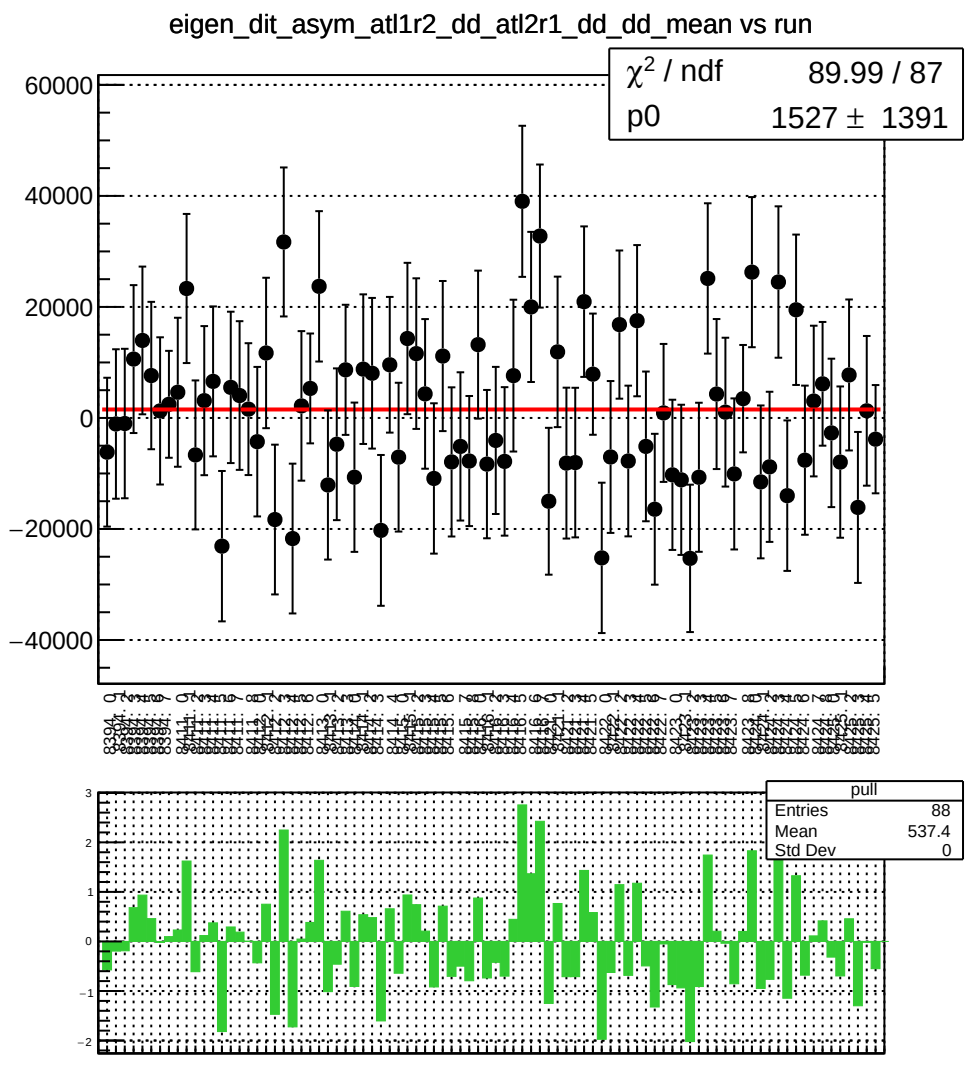

pull1D
Entries 88
Mean −0.004252
Std Dev 1.011
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

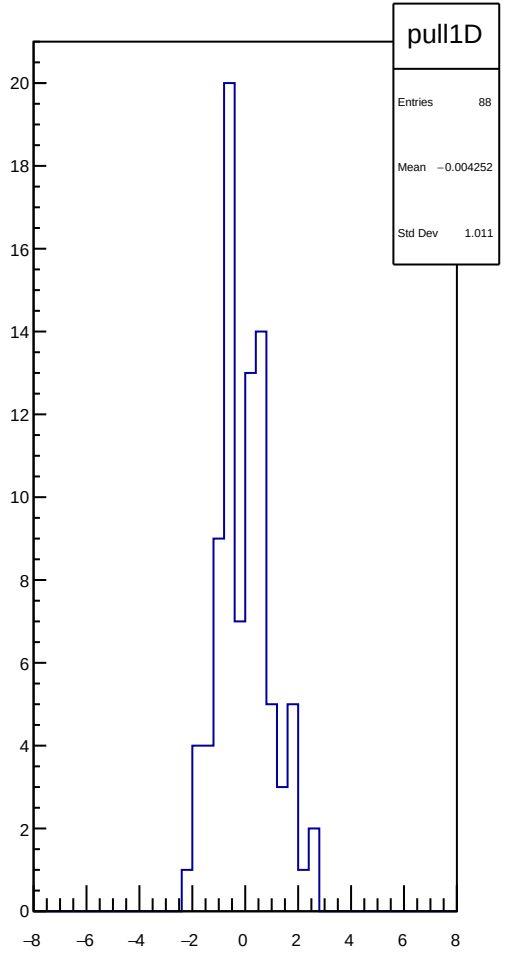

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ^2 / ndf 115.9 / 87
p0 1279 ± 0.9833
1320
1310
1300
1290
1280
1270
1260
1250
1240

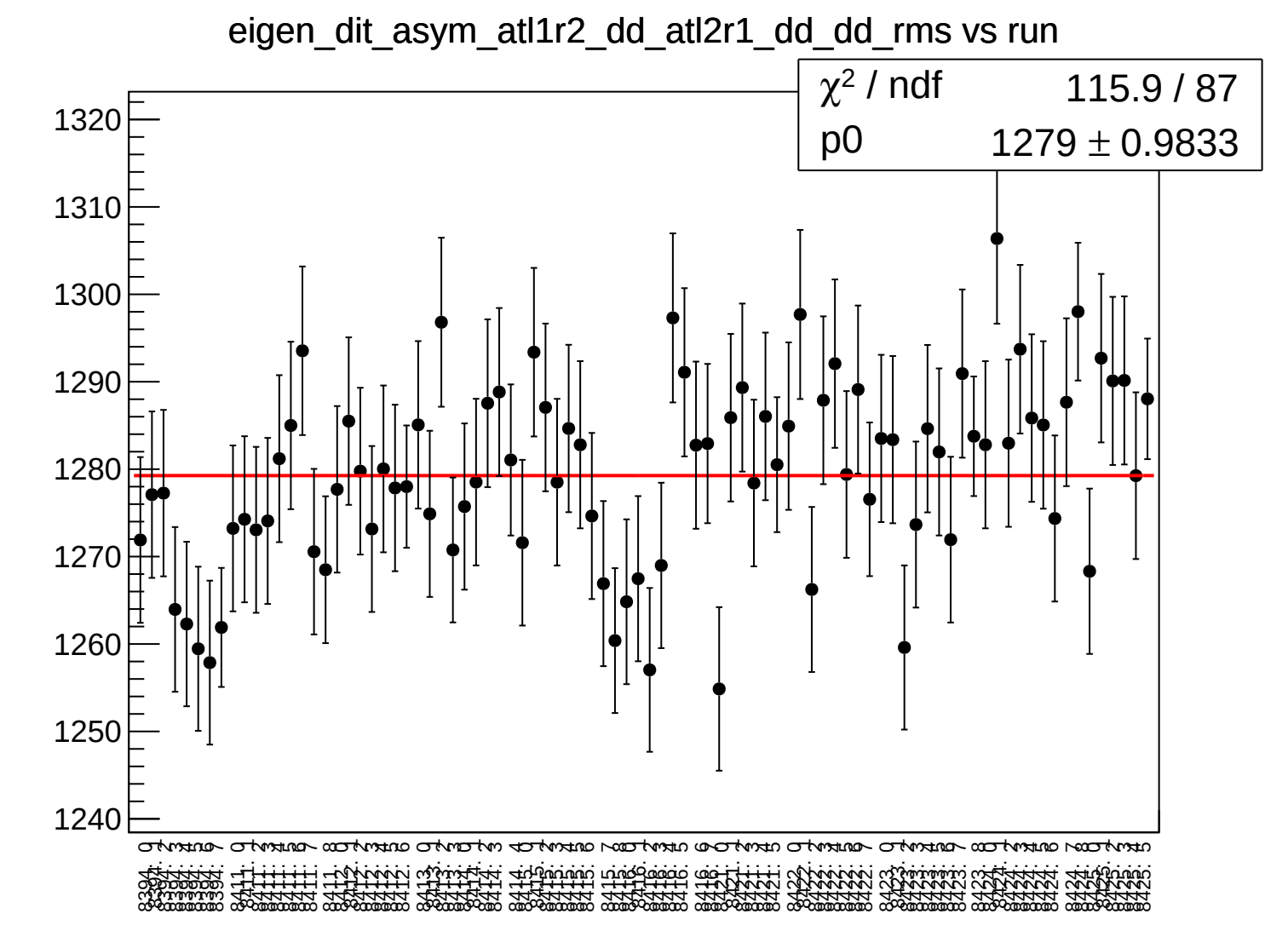

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 65.06 / 87
p0 −2993 ± 6445
pull
Entries 88
Mean −65.81
Std Dev 0

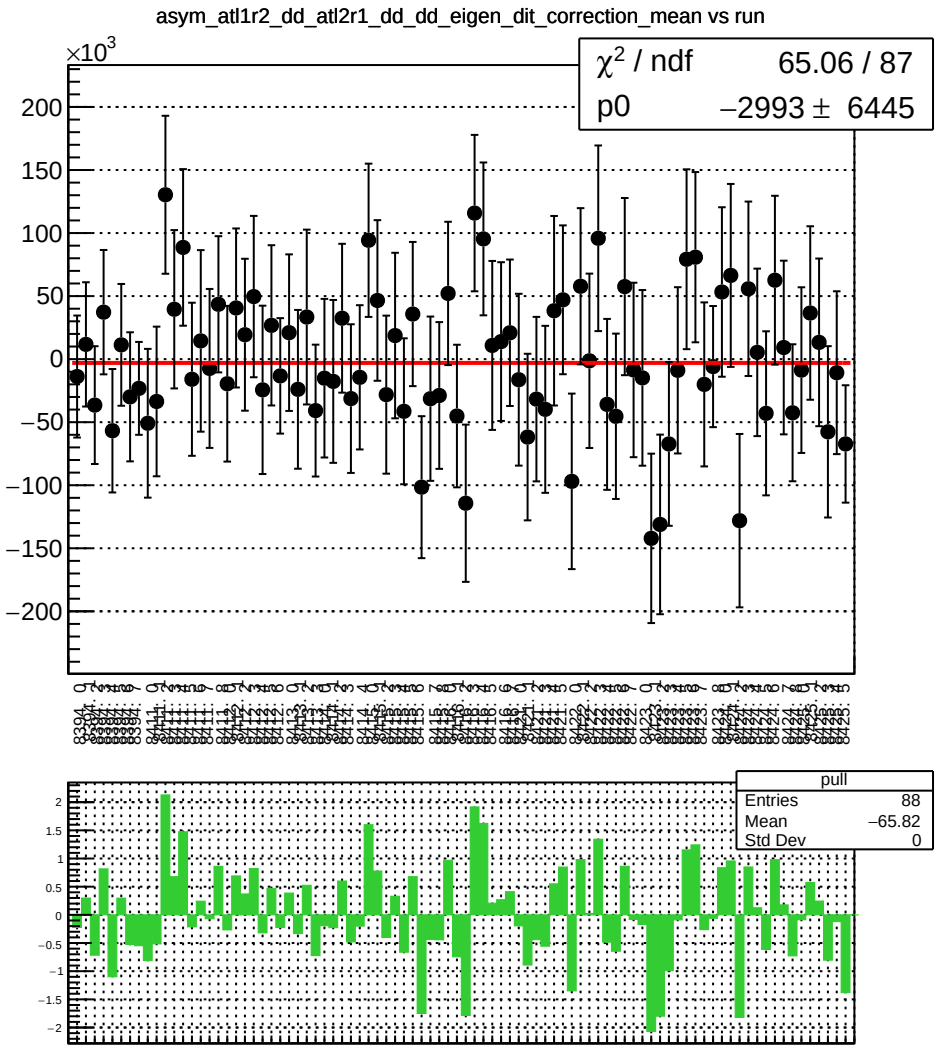

pull1D
Entries 88
Mean 0.01863
Std Dev 0.8596

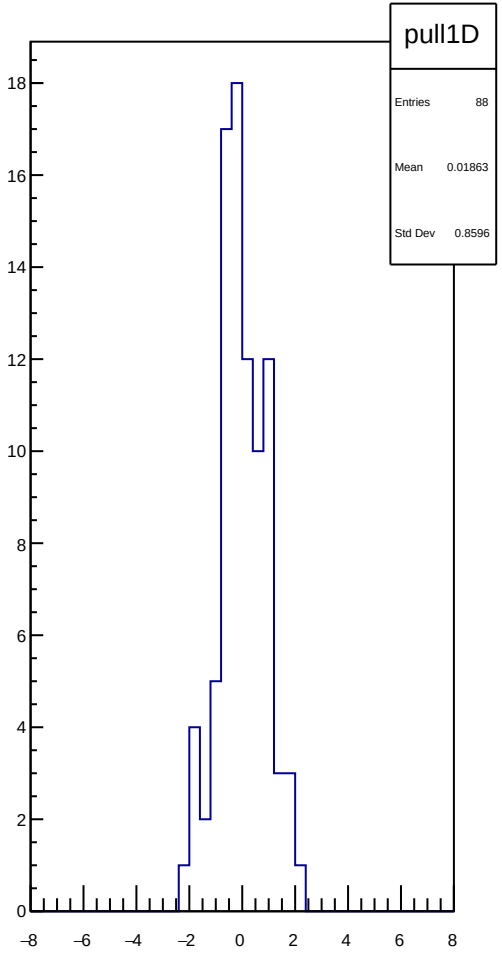

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 1.968e+04 / 87
p0 5895 ± 4.557
7000
6500
6000
5500
5000
4500

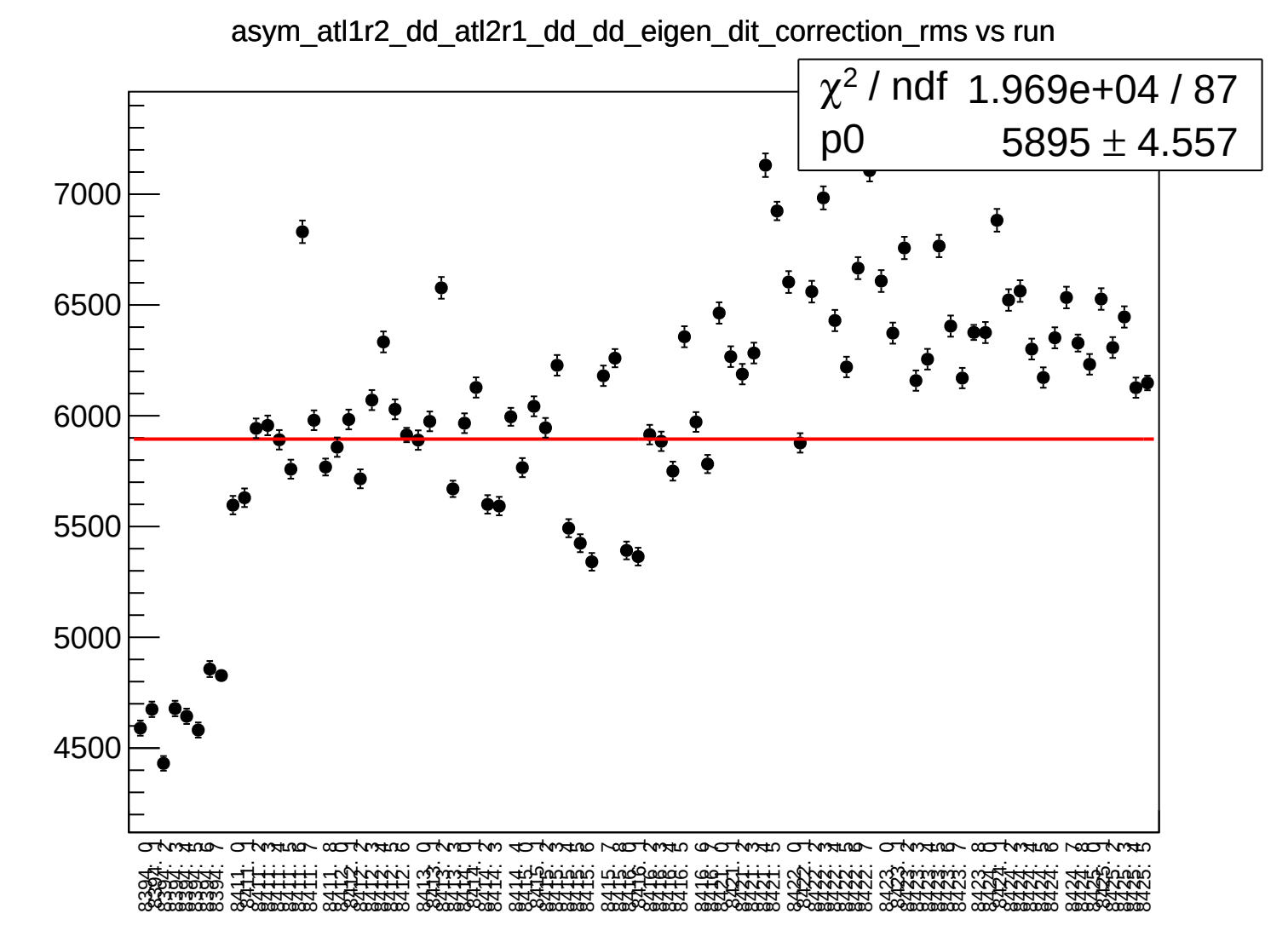

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 89.99 / 87
p0 1527 ± 1391
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 537.4
Std Dev 0
3
2
1
0
−1
−2

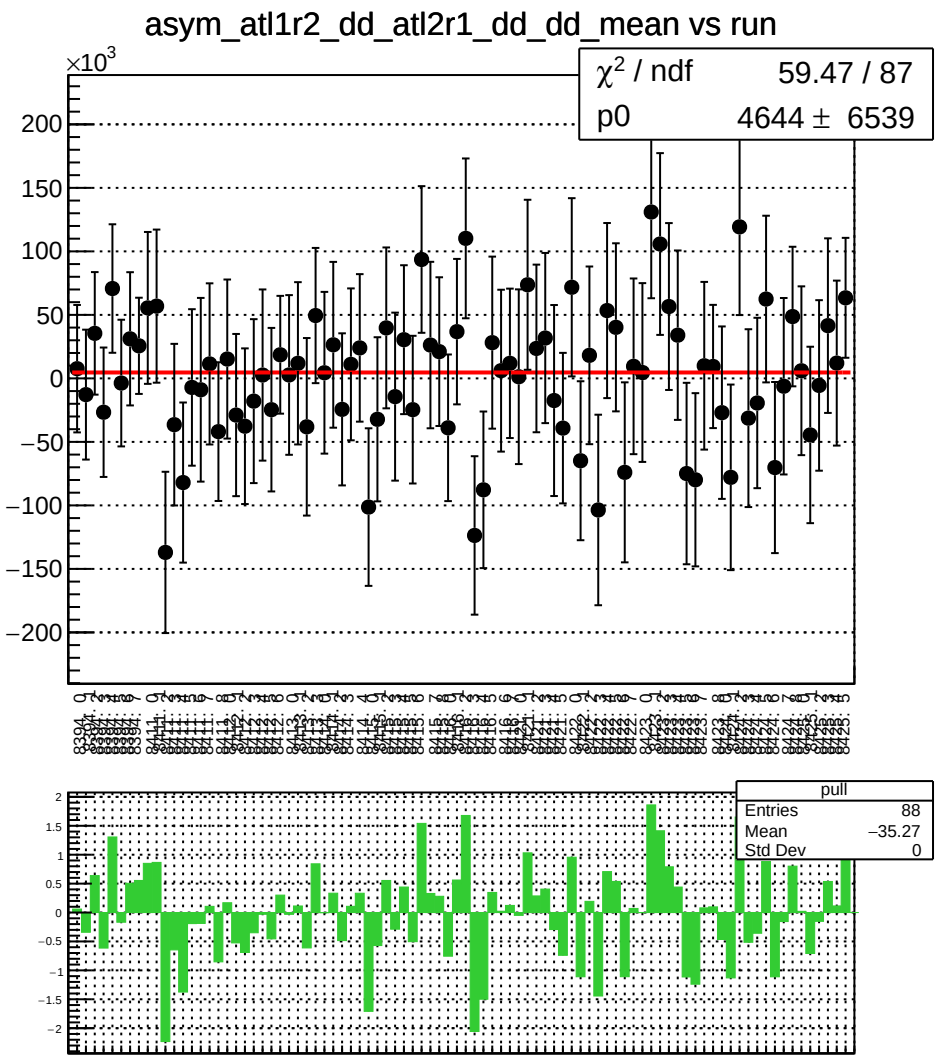

pull1D
Entries 88
Mean −0.004252
Std Dev 1.011
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

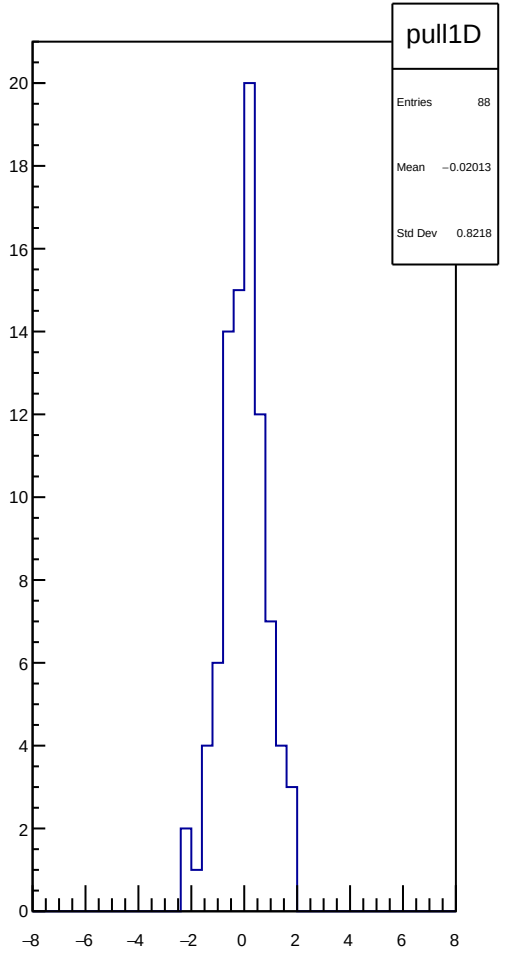

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 115.9 / 87
p0 1279 ± 0.9833
1320
1310
1300
1290
1280
1270
1260
1250
1240

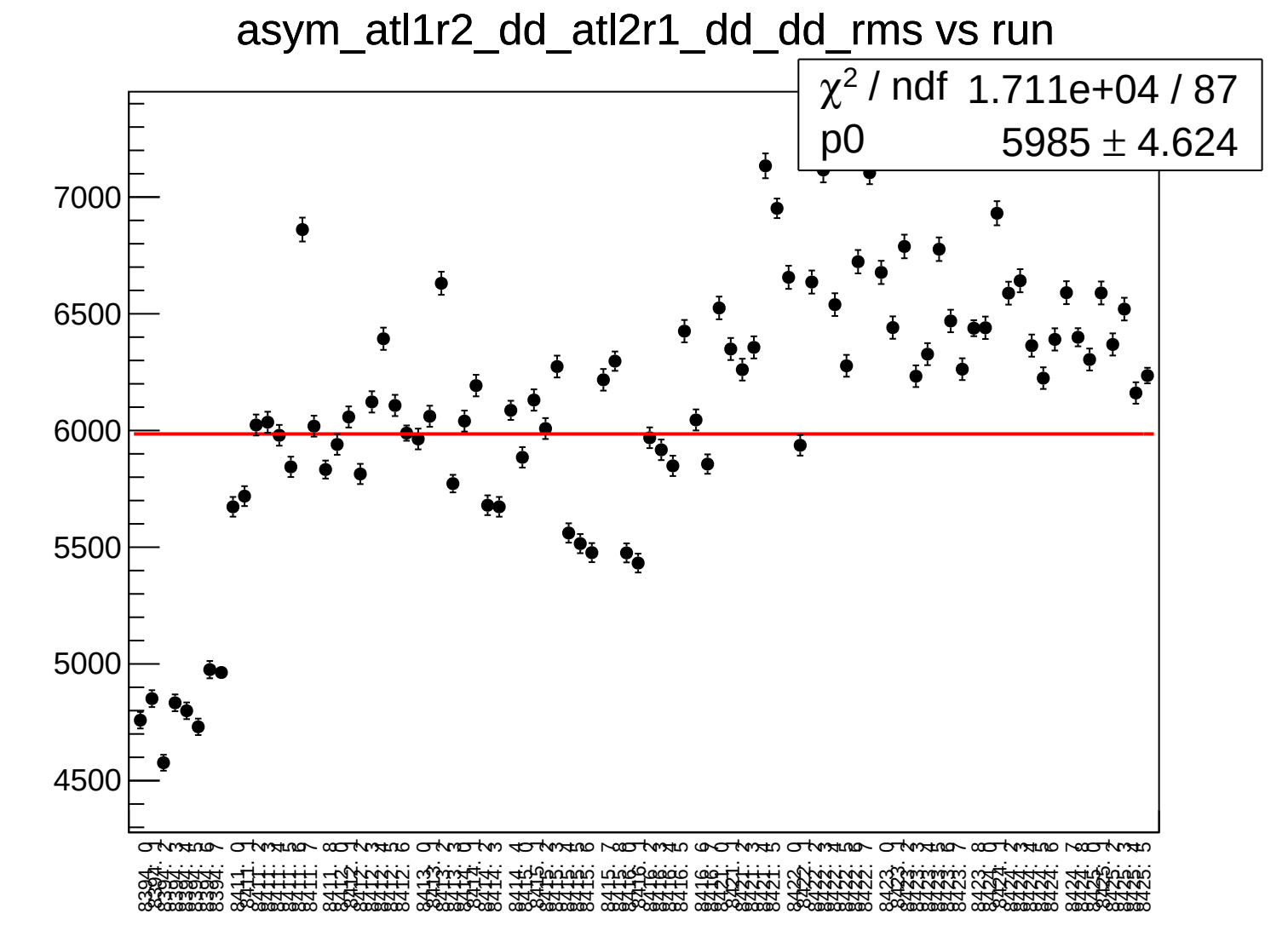

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 65.06 / 87
p0 −2993 ± 6445
pull
Entries 88
Mean −65.82
Std Dev 0

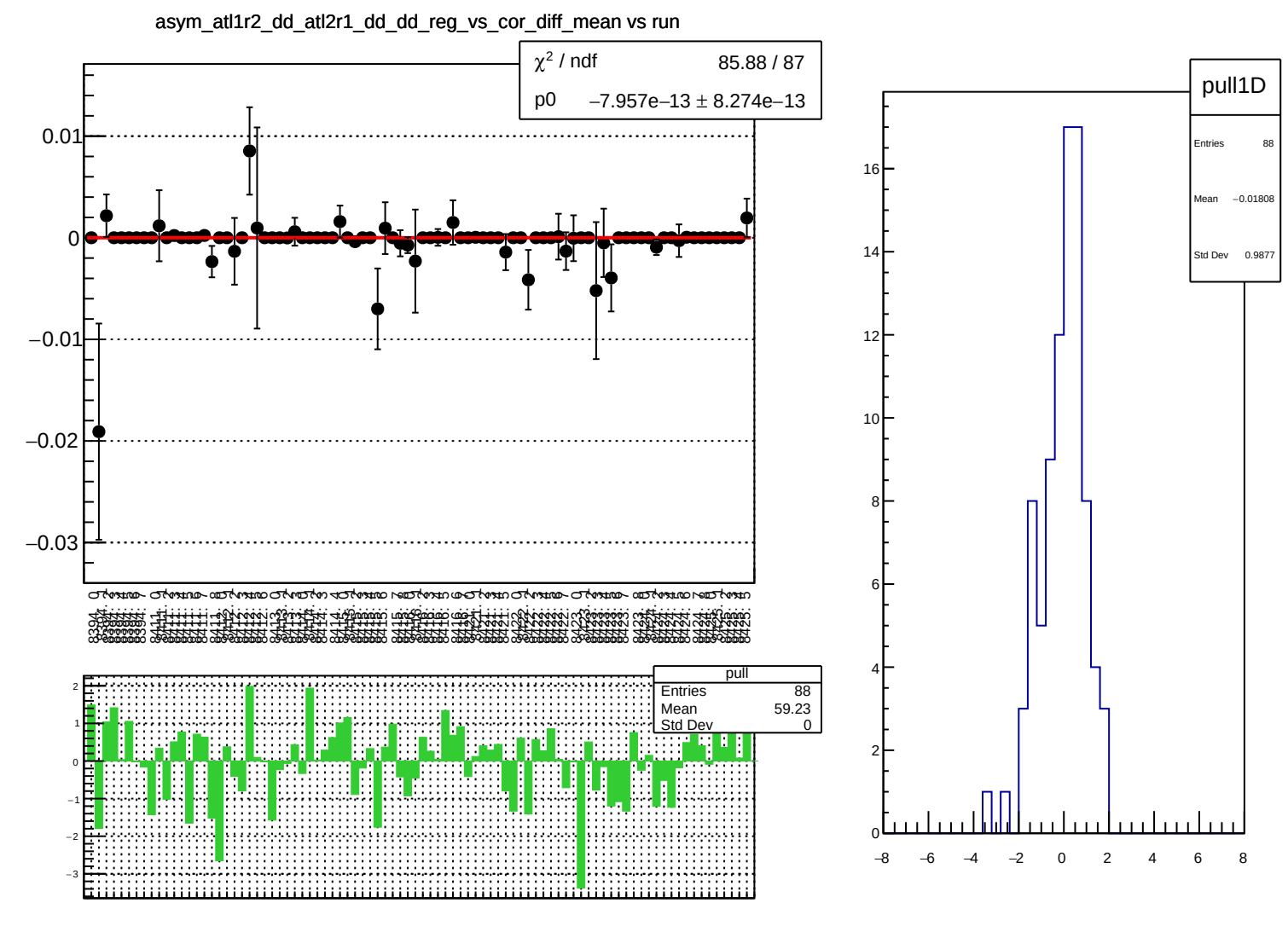

pull1D
Entries 88
Mean 0.01863
Std Dev 0.8596

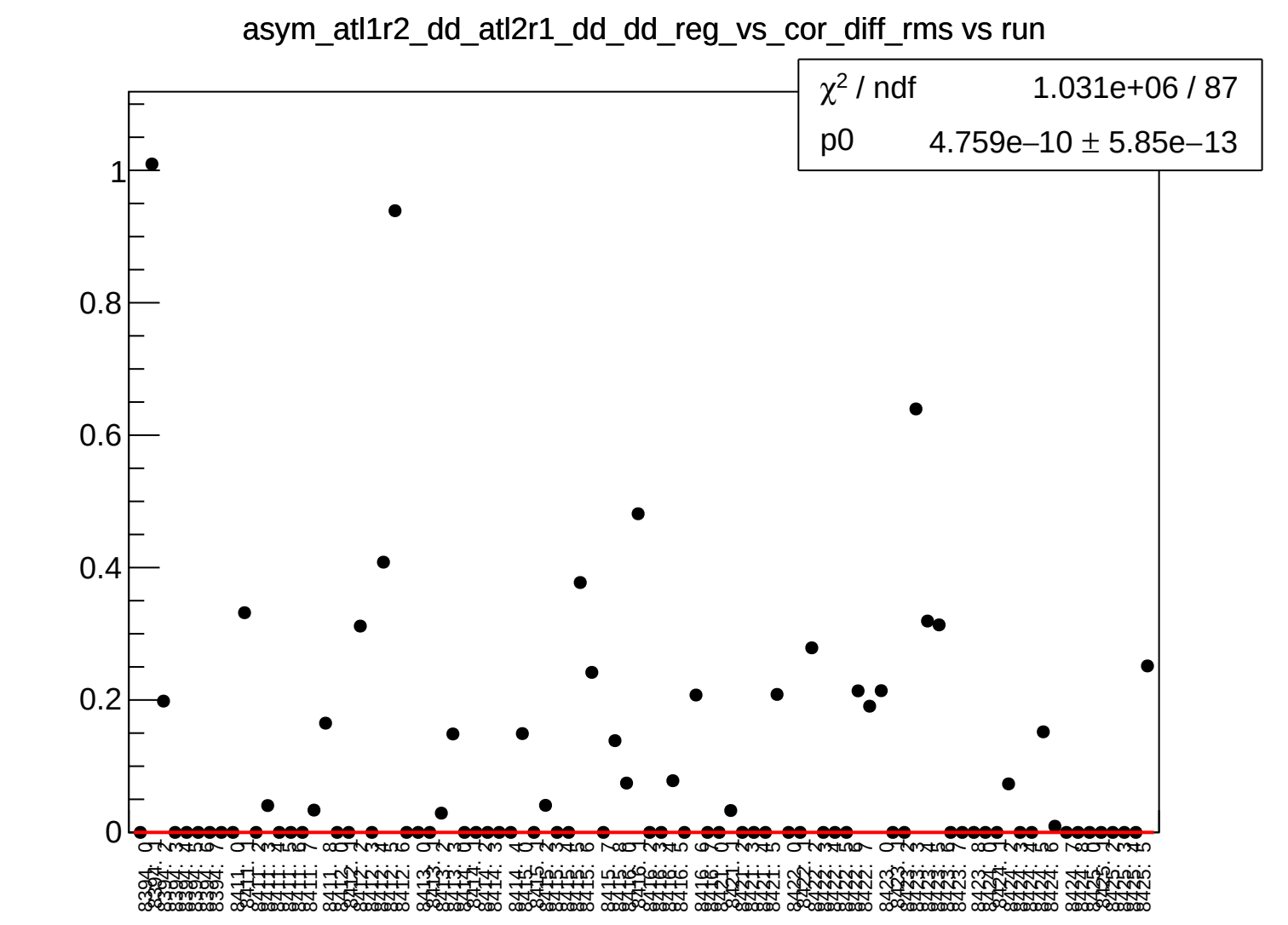

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.969e+04 / 87
p0 5895 ± 4.557
7000
6500
6000
5500
5000
4500

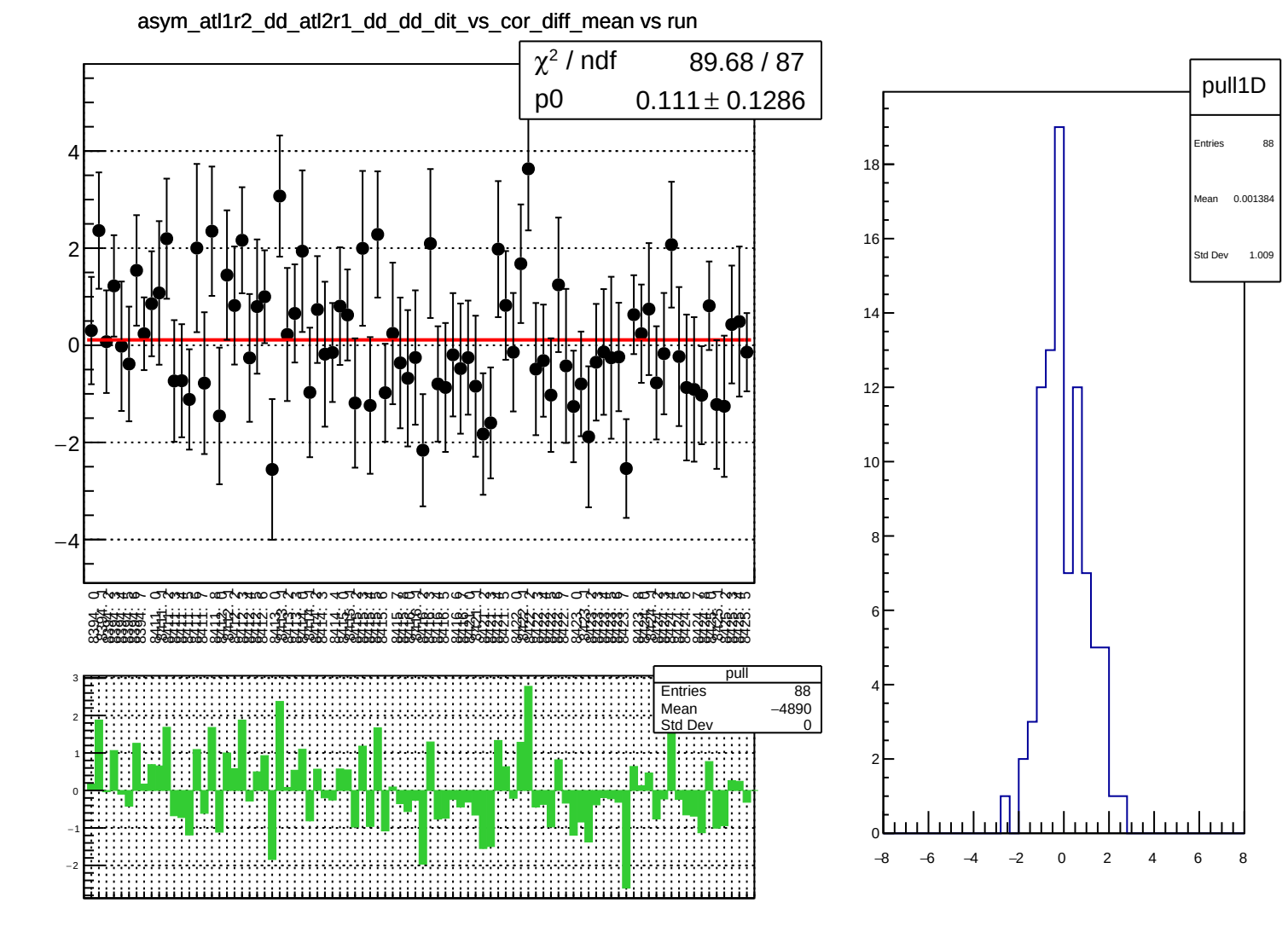

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 59.47 / 87
p0 4644 ± 6539
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −35.27
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

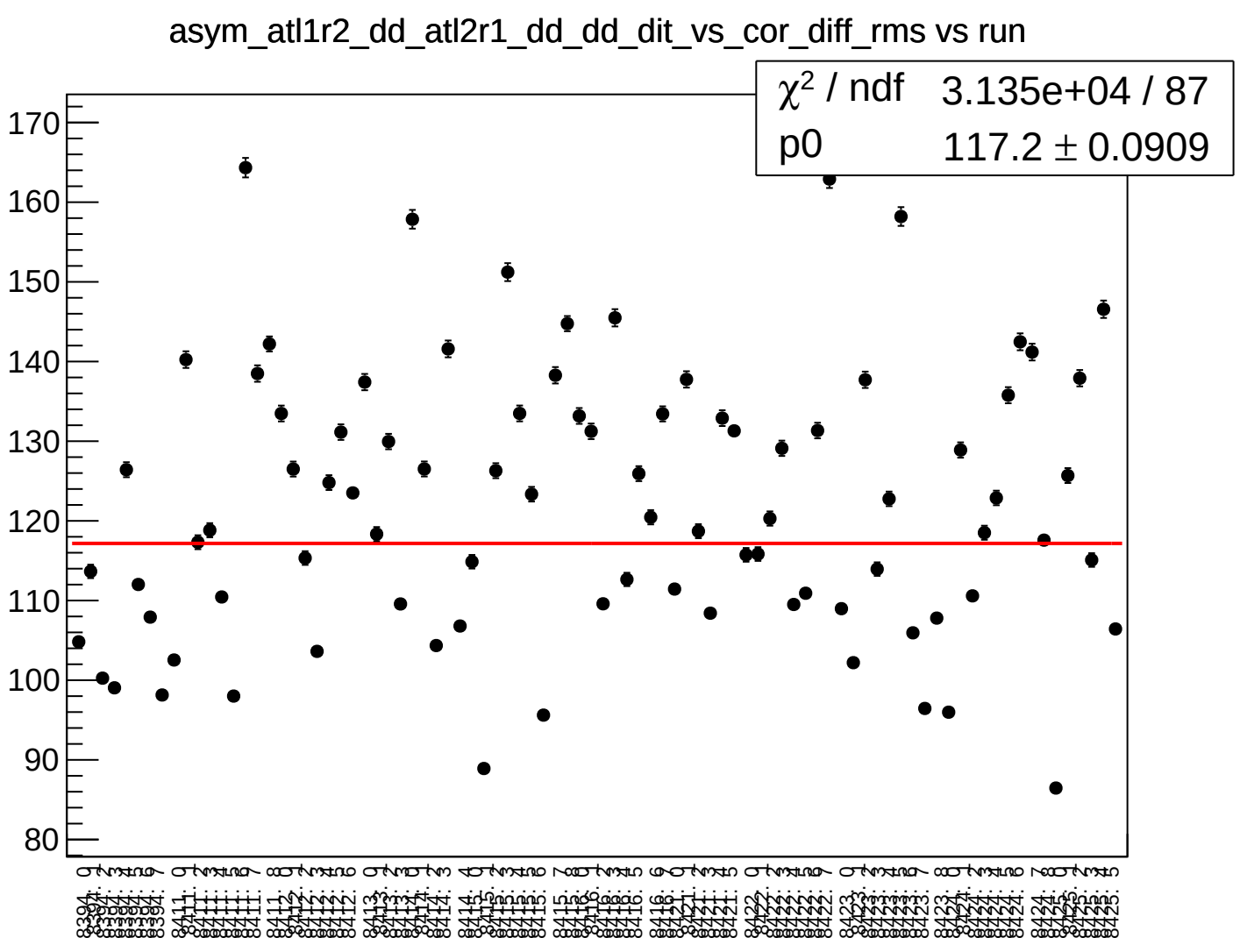

pull1D
Entries 88
Mean −0.02013
Std Dev 0.8218
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

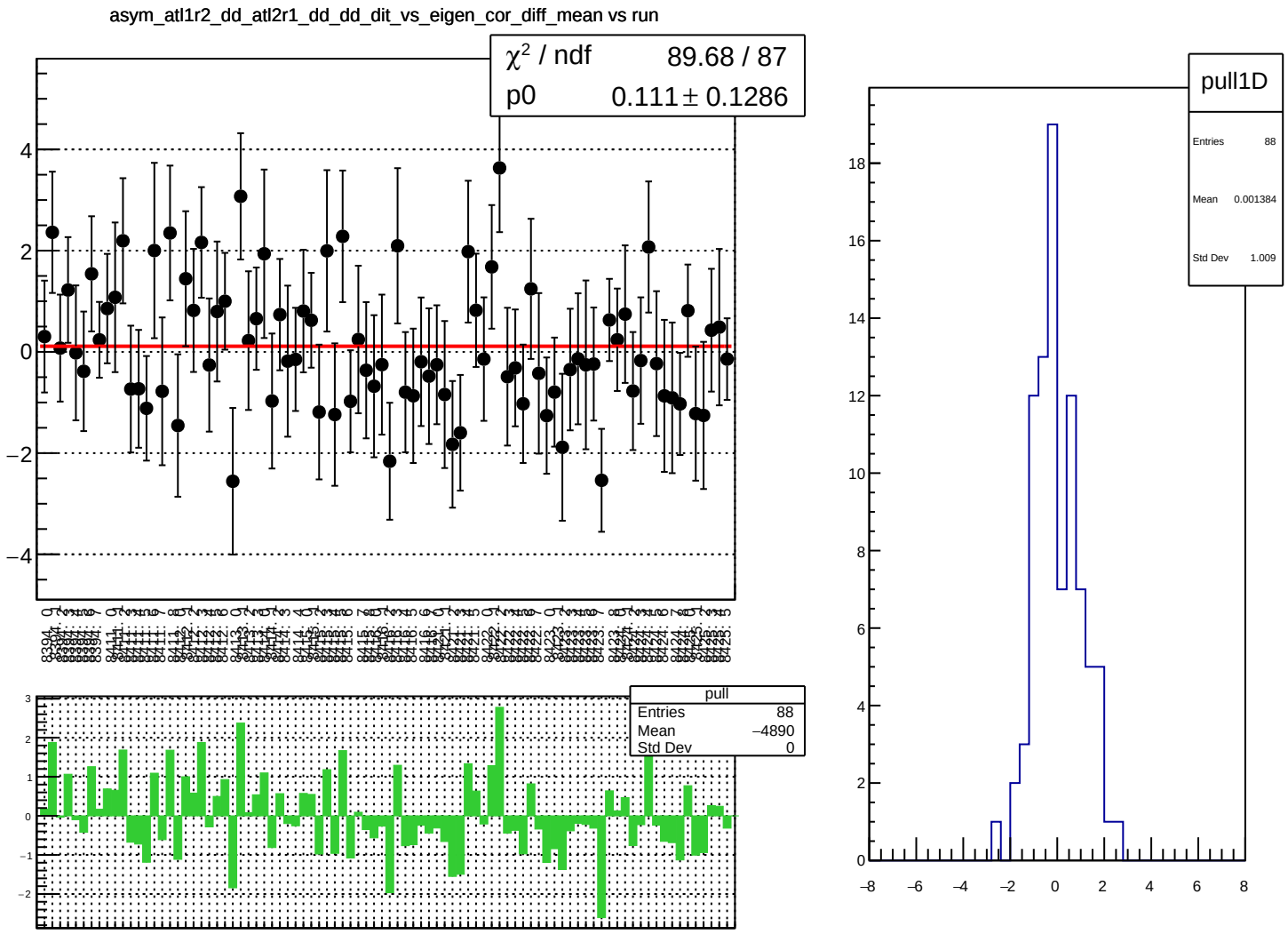

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 1.711e+04 / 87
p0 5985 ± 4.624
7000
6500
6000
5500
5000
4500

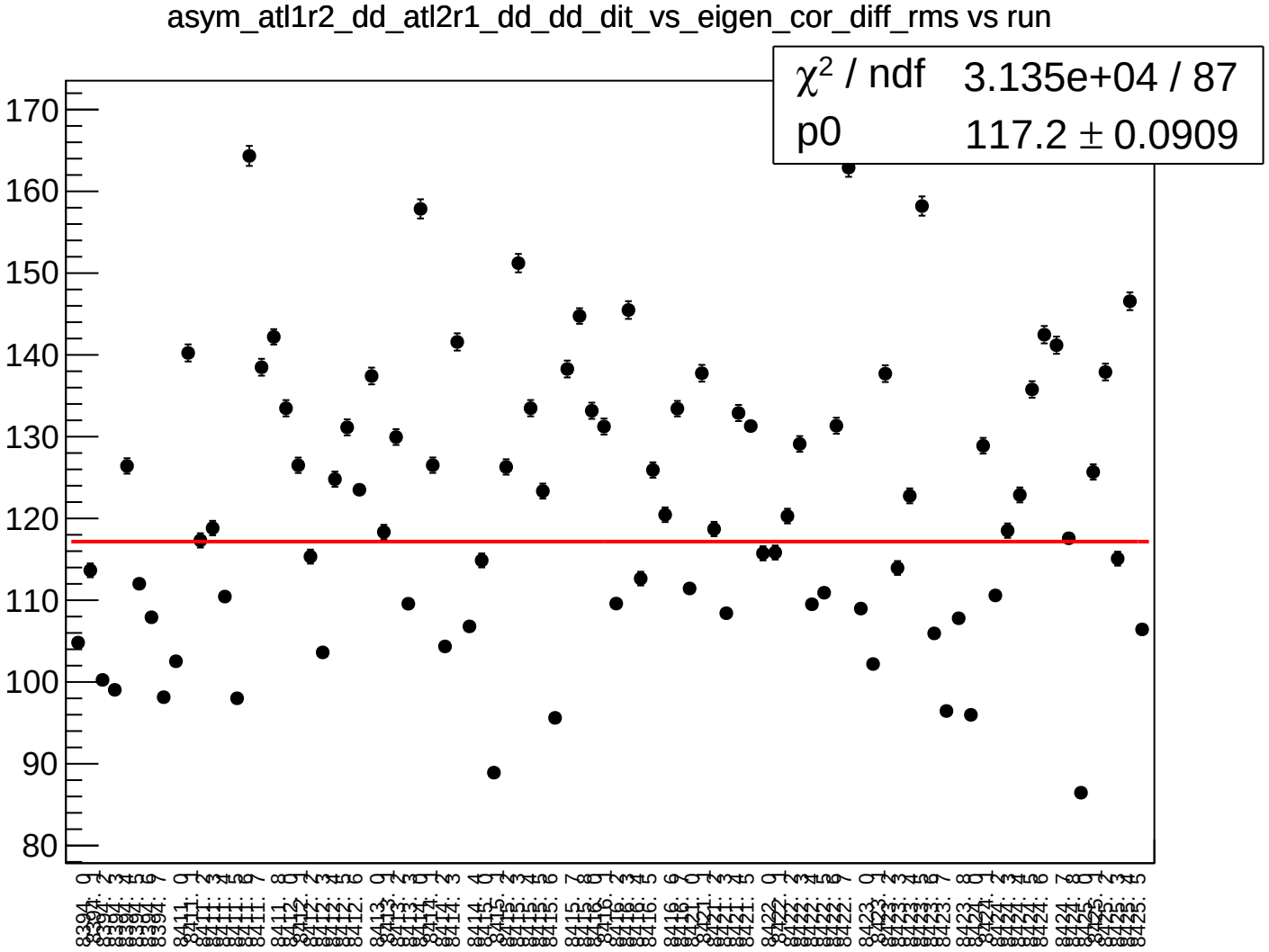

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 85.88 / 87
p0 −7.957e−13 ± 8.274e−13
0.01
0
−0.01
−0.02
−0.03
pull
Entries 88
Mean 59.23
Std Dev 0
pull1D
Entries 88
Mean −0.01808
Std Dev 0.9877

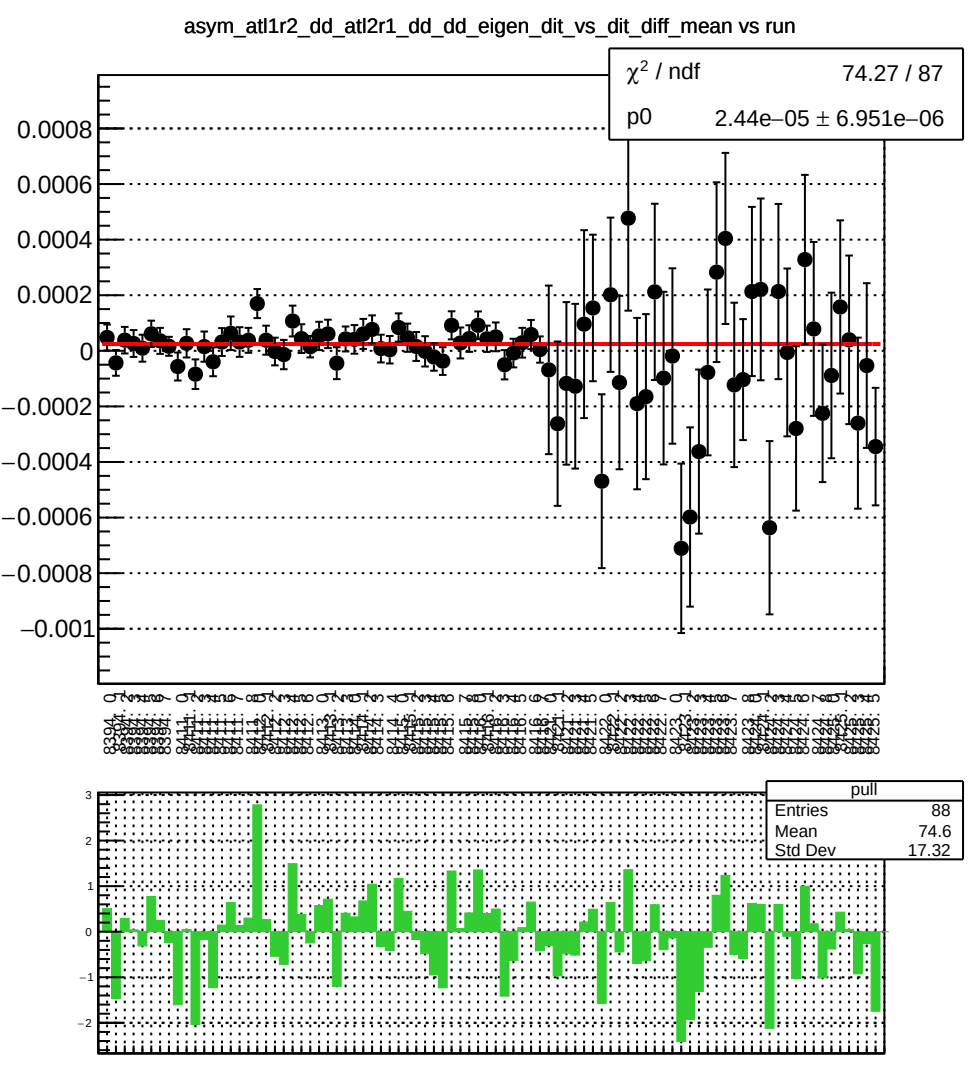

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.031e+06 / 87
p0 4.759e−10 ± 5.85e−13
1
0.8
0.6
0.4
0.2
0

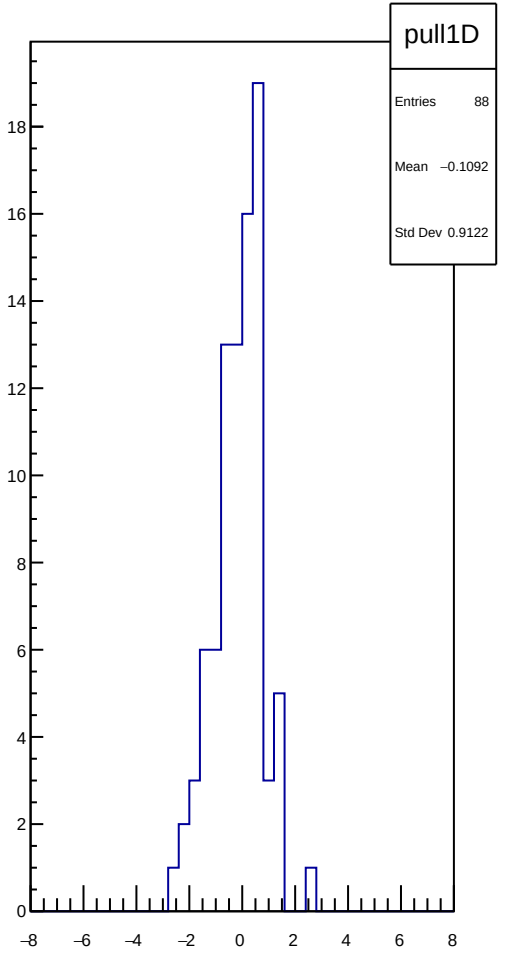

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.68 / 87
p0 0.111 ± 0.1286
pull
Entries 88
Mean −4890
Std Dev 0
pull1D
Entries 88
Mean 0.001384
Std Dev 1.009

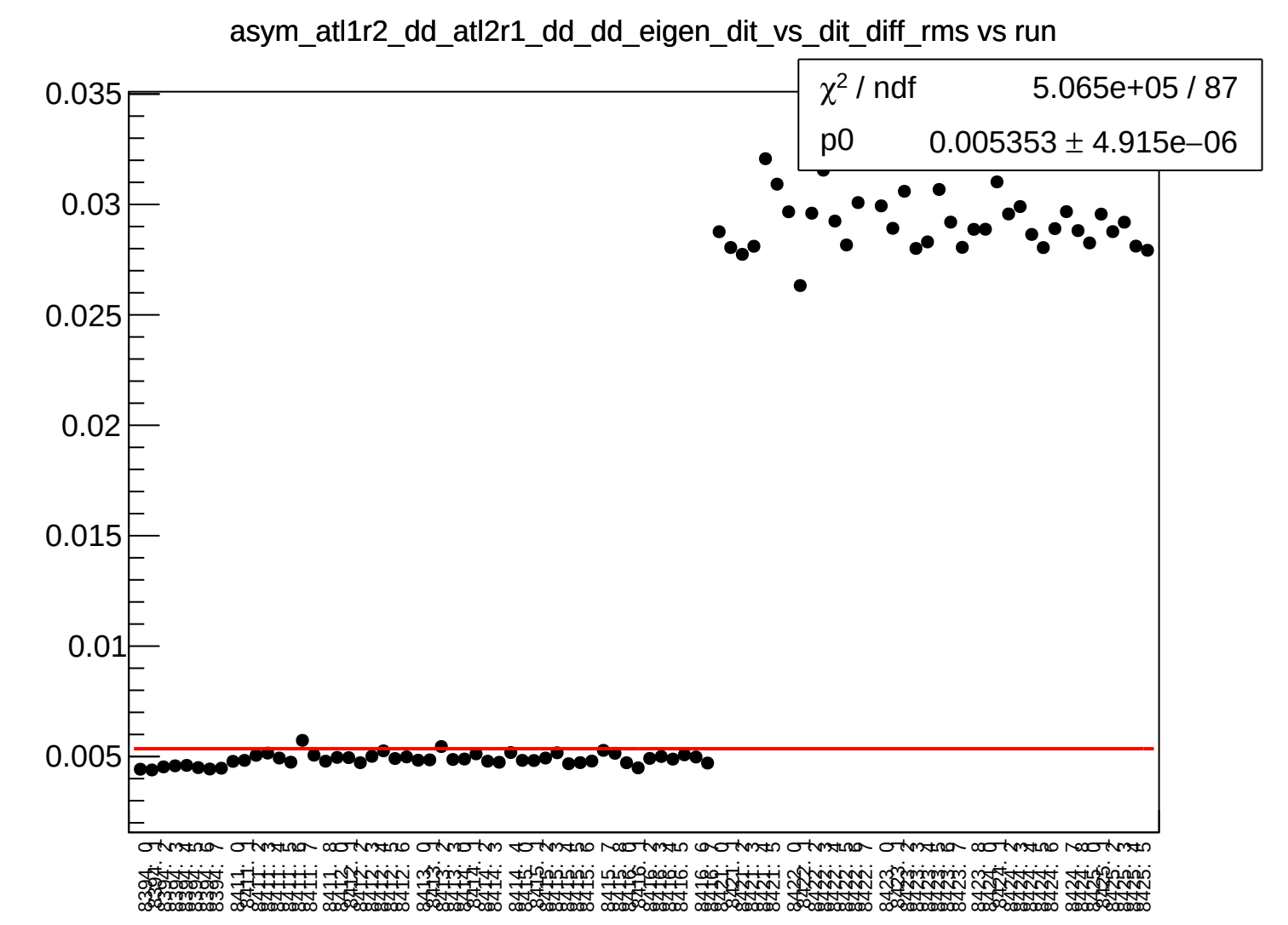

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.135e+04 / 87
p0 117.2 ± 0.0909
170
160
150
140
130
120
110
100
90
80

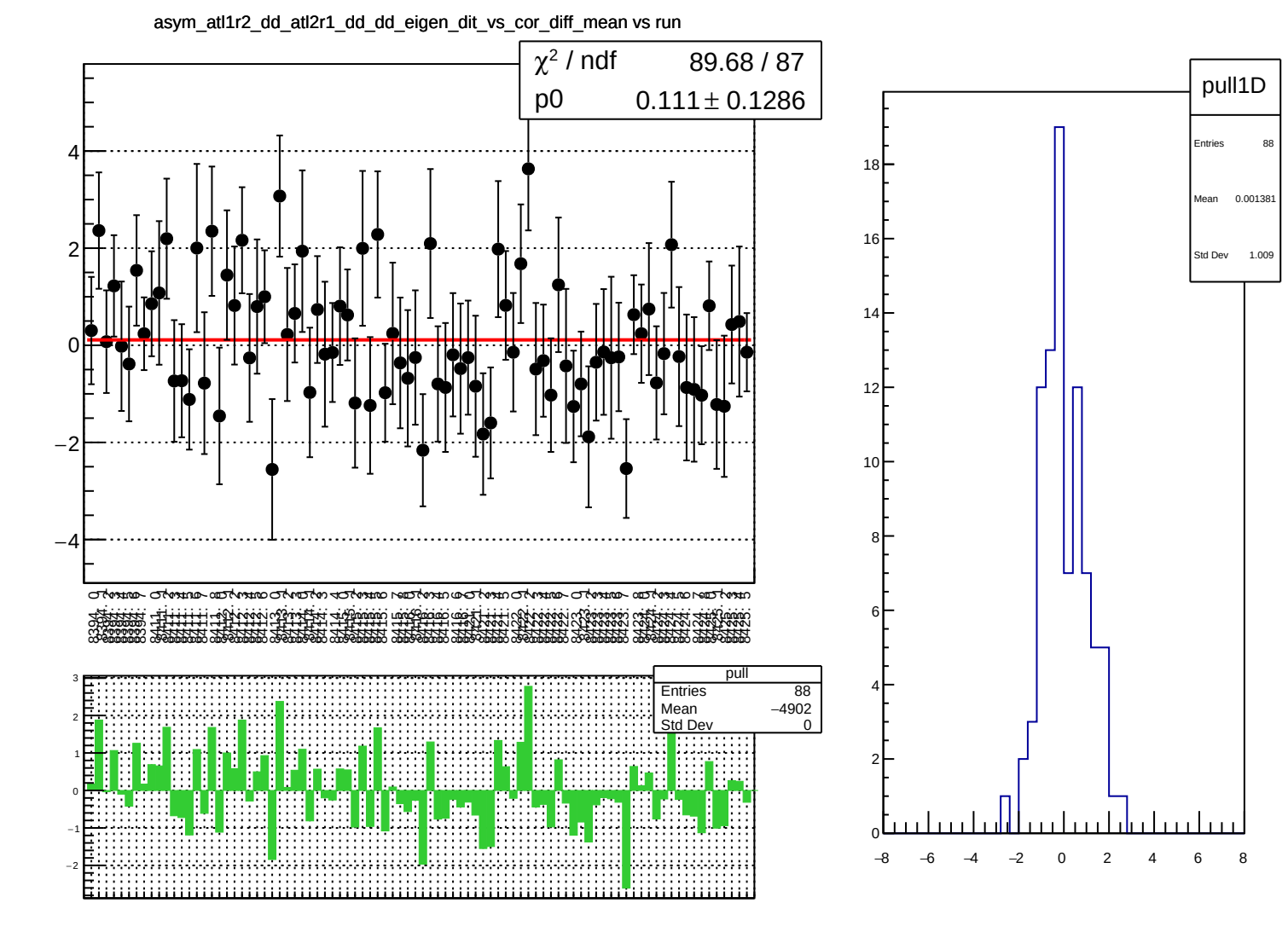

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.68 / 87
p0 0.111 ± 0.1286
pull
Entries 88
Mean −4890
Std Dev 0
pull1D
Entries 88
Mean 0.001384
Std Dev 1.009

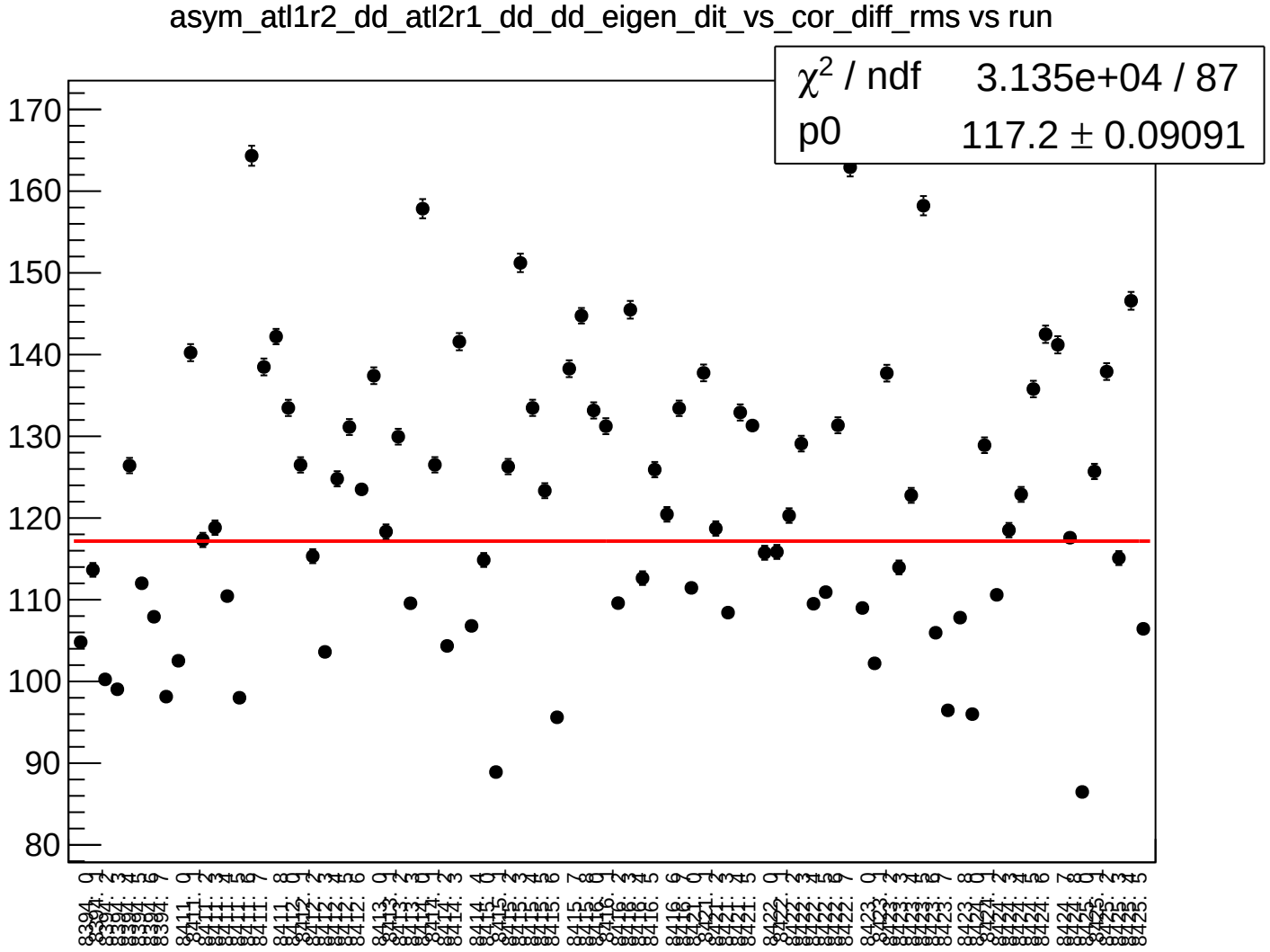

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.135e+04 / 87
p0 117.2 ± 0.0909
170
160
150
140
130
120
110
100
90
80

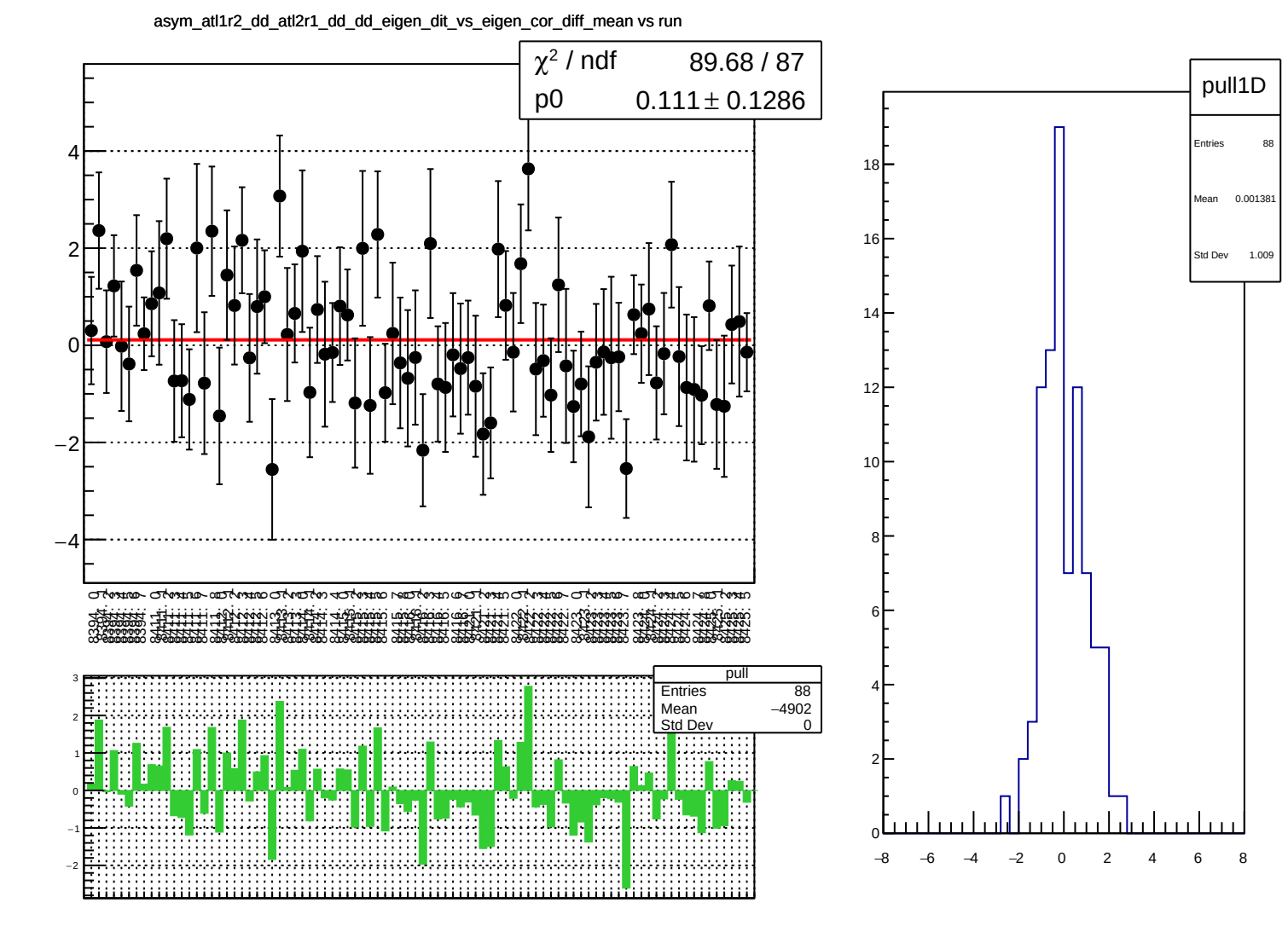

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 74.27 / 87
p0 2.44e−05 ± 6.951e−06
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 88
Mean 74.6
Std Dev 17.32
3
2
1
0
−1
−2

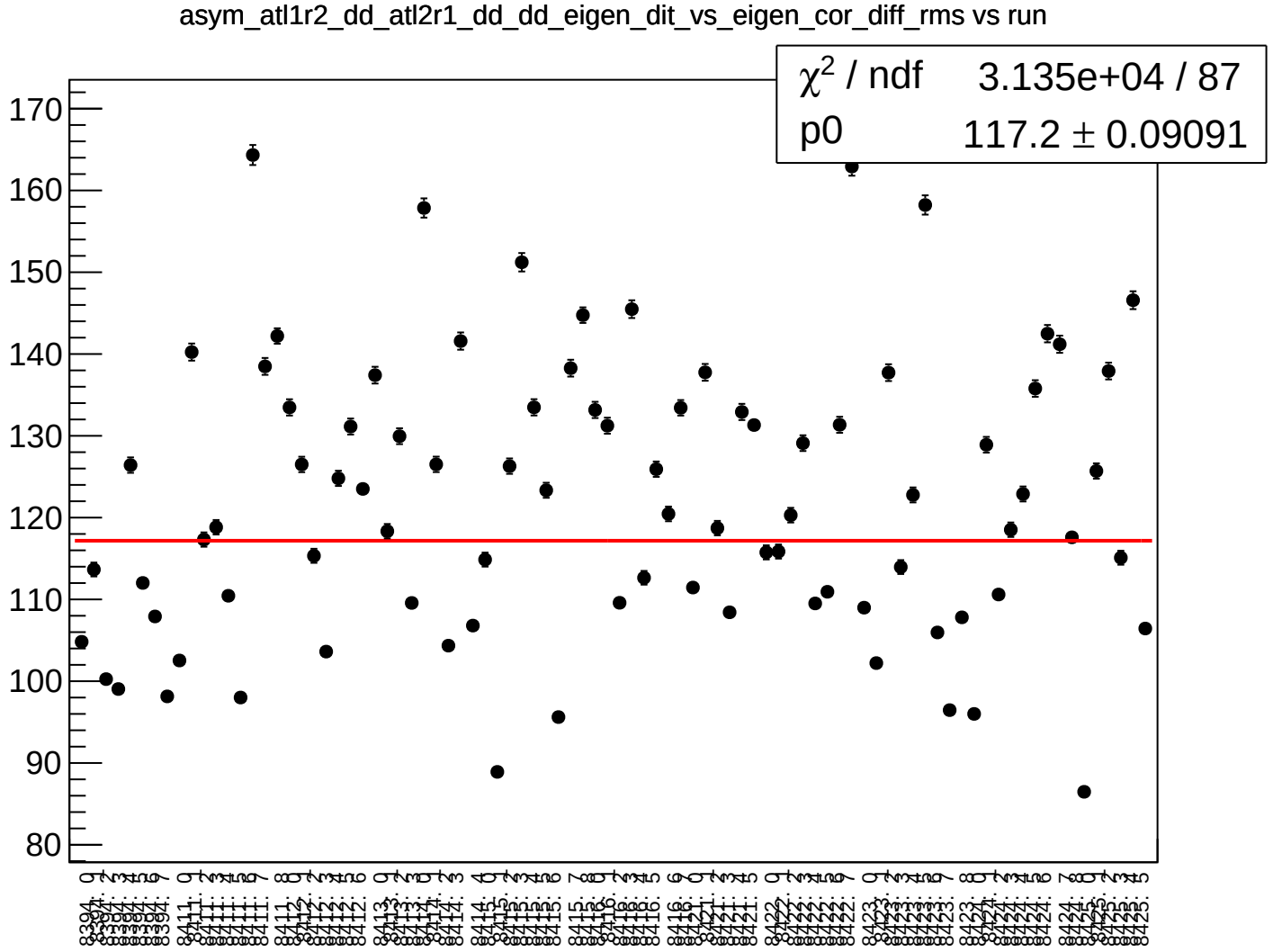

pull1D
Entries 88
Mean −0.1092
Std Dev 0.9122
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

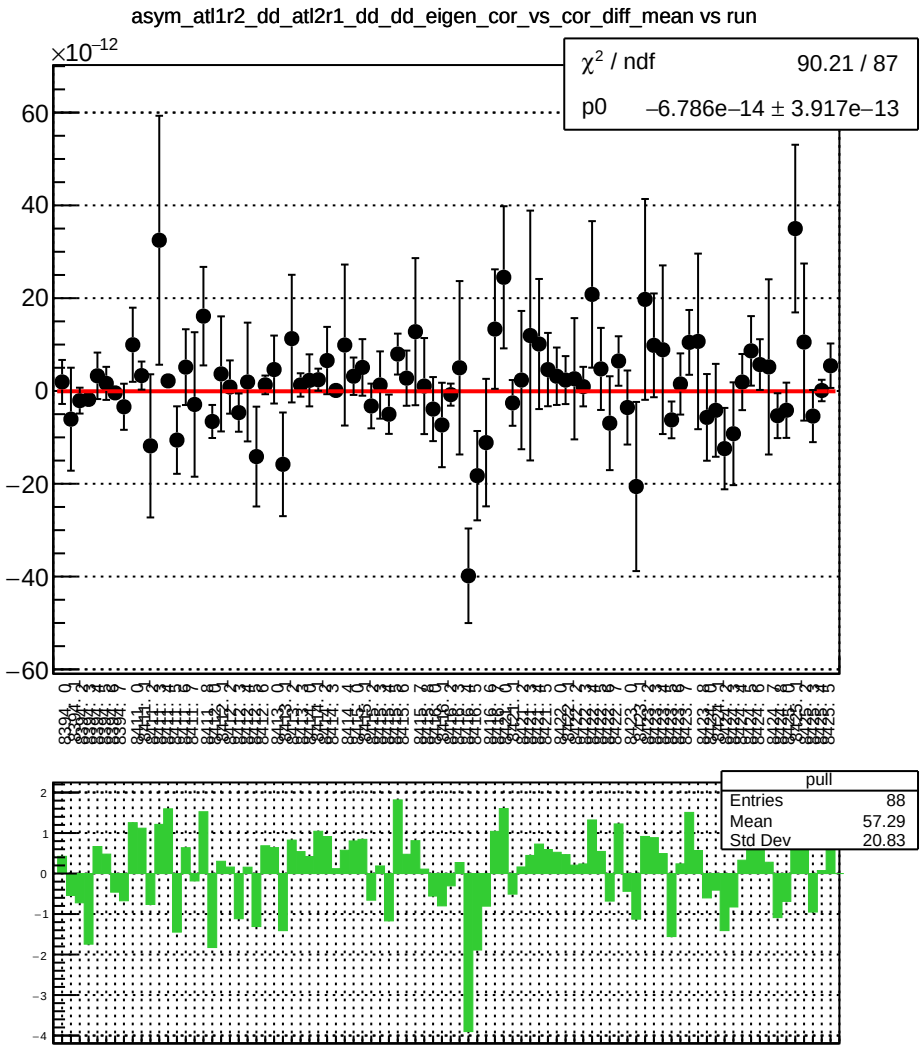

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.065e+05 / 87
p0 0.005353 ± 4.915e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

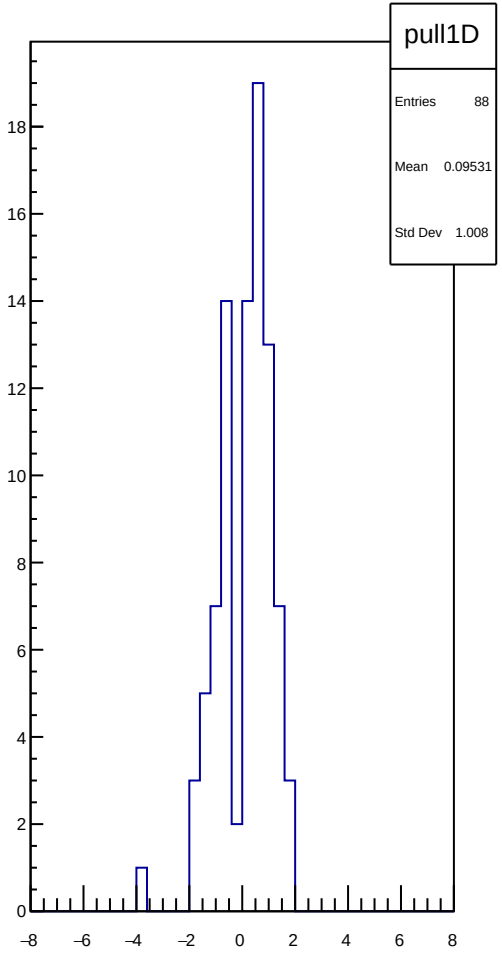

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.68 / 87
p0 0.111 ± 0.1286
pull
Entries 88
Mean −4902
Std Dev 0
pull1D
Entries 88
Mean 0.001381
Std Dev 1.009

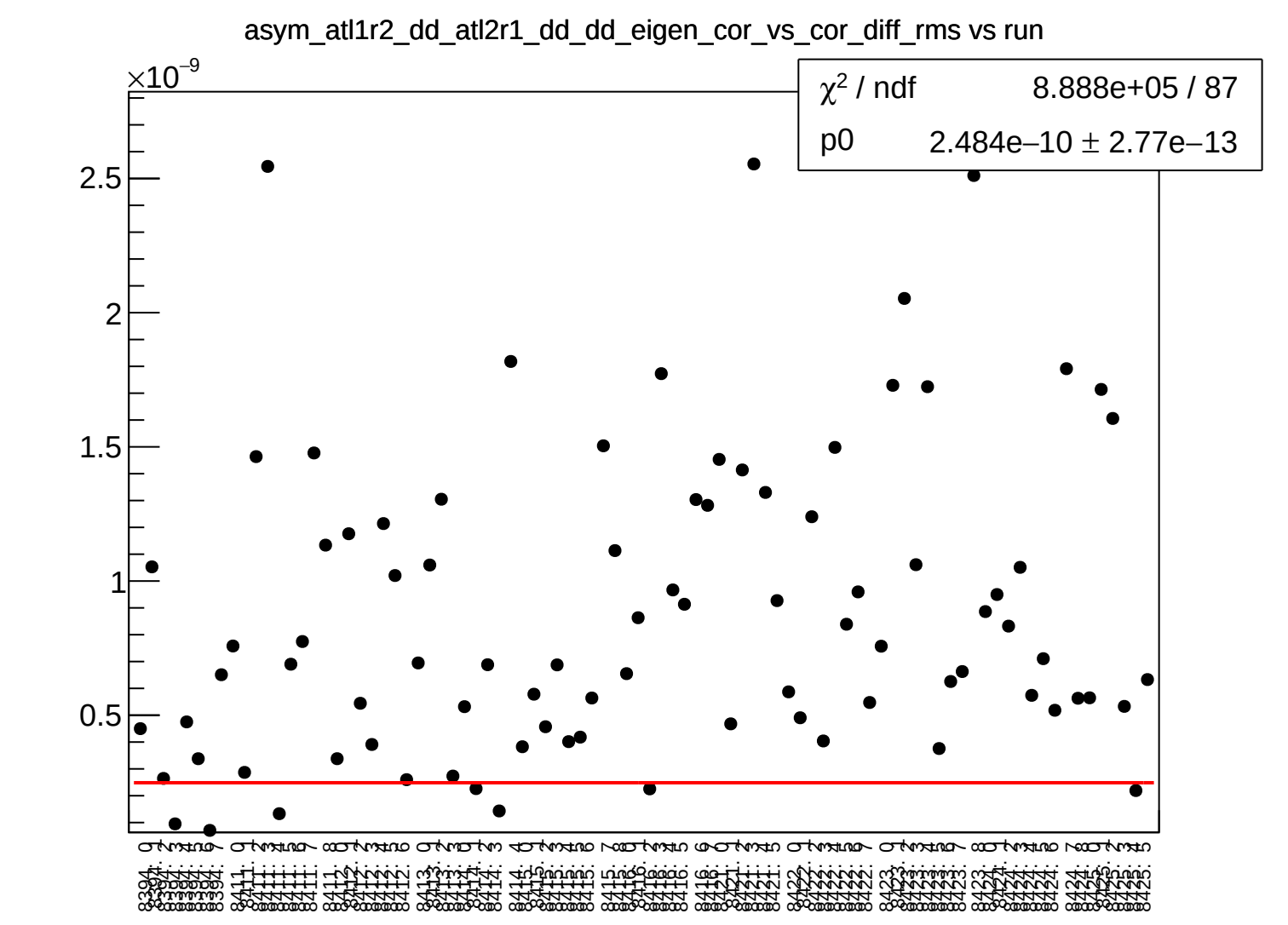

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.135e+04 / 87
p0 117.2 ± 0.09091
170
160
150
140
130
120
110
100
90
80

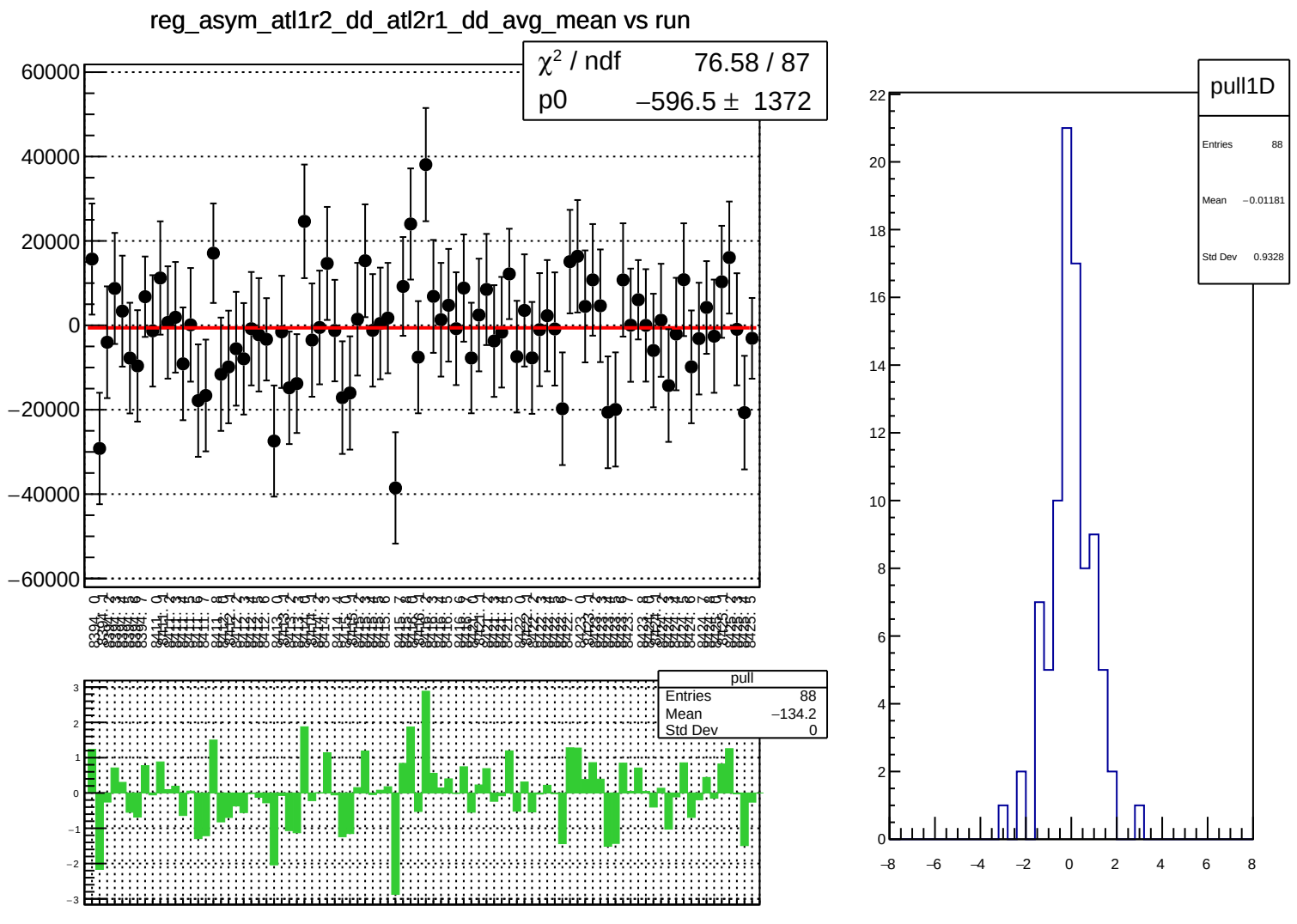

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.68 / 87
p0 0.111 ± 0.1286
pull
Entries 88
Mean −4902
Std Dev 0
pull1D
Entries 88
Mean 0.001381
Std Dev 1.009

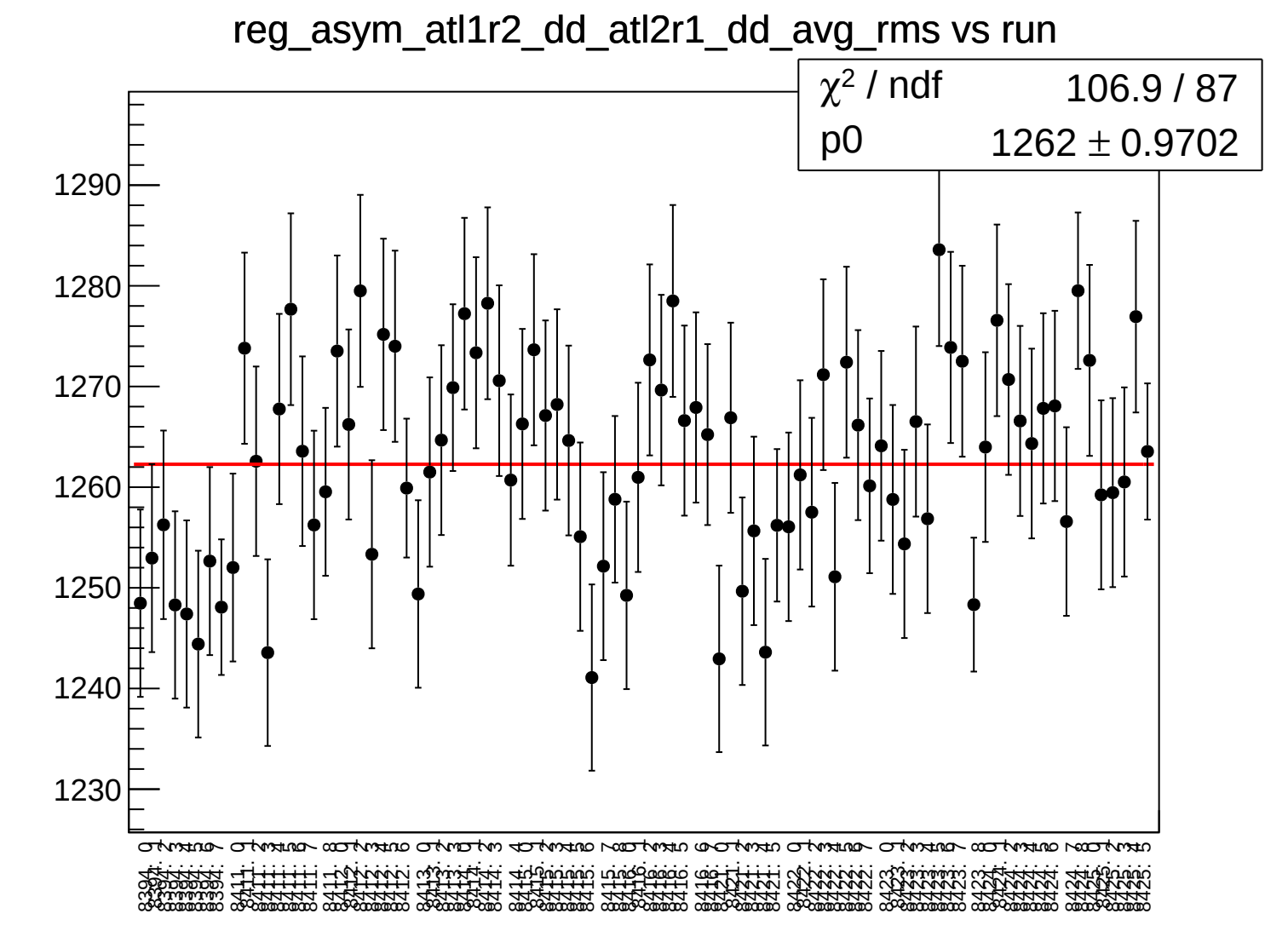

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.135e+04 / 87
p0 117.2 ± 0.09091
170
160
150
140
130
120
110
100
90
80

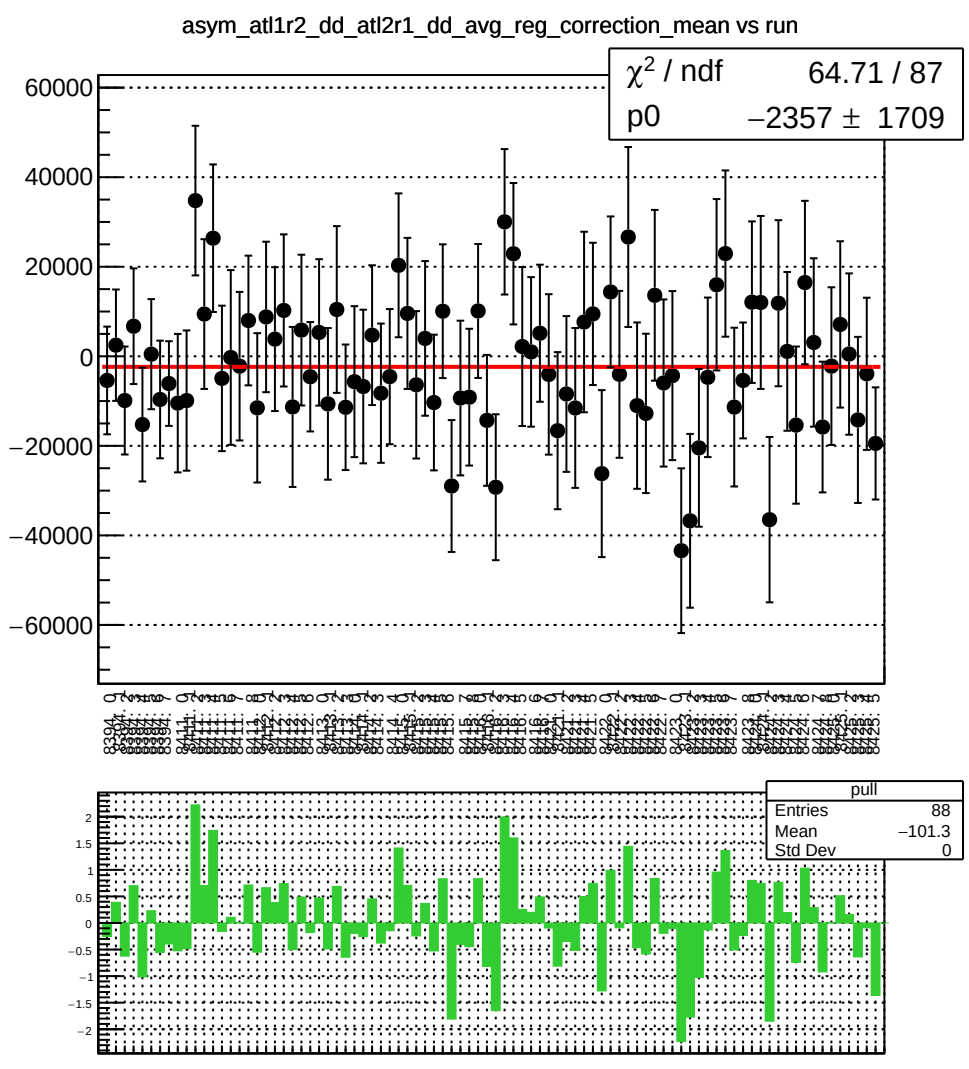

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.21 / 87
p0 −6.786e−14 ± 3.917e−13
pull
Entries 88
Mean 57.29
Std Dev 20.83

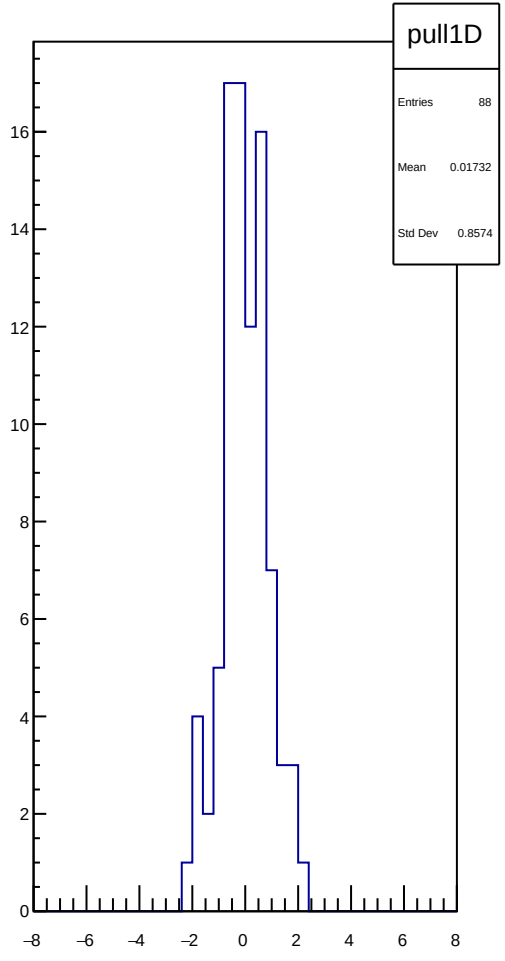

pull1D
Entries 88
Mean 0.09531
Std Dev 1.008

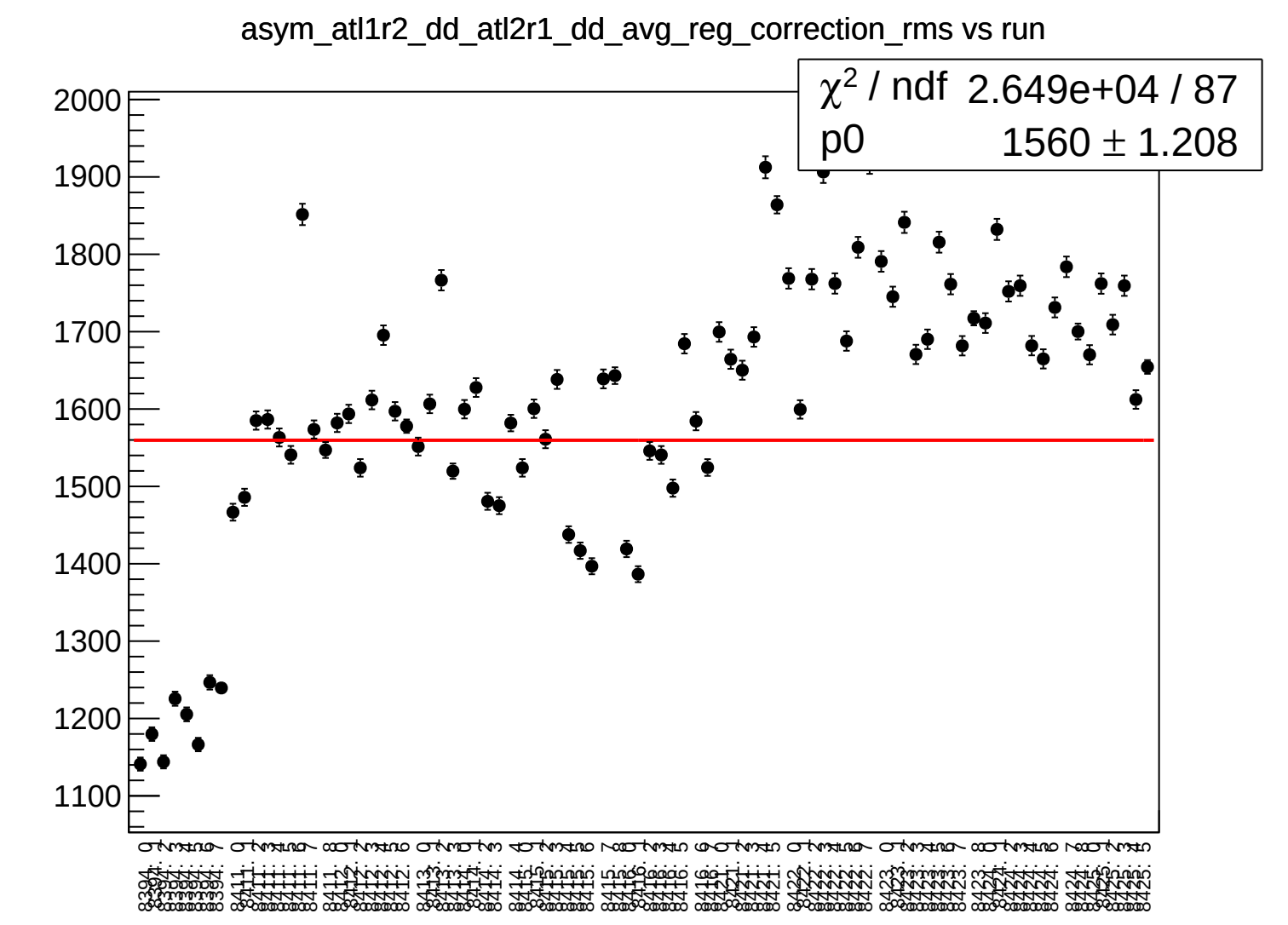

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.888e+05 / 87
p0 2.484e−10 ± 2.77e−13
2.5
2
1.5
1
0.5

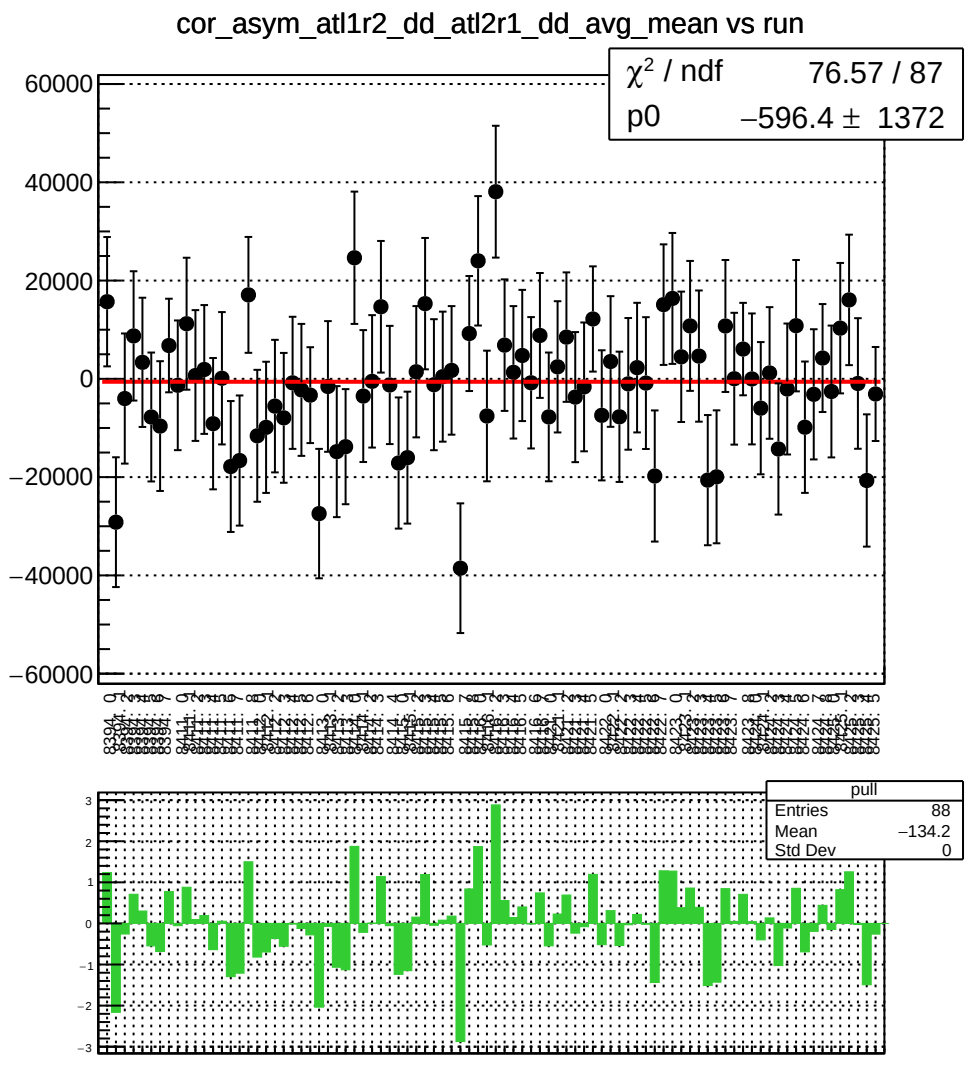

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 76.58 / 87
p0 −596.5 ± 1372
pull
Entries 88
Mean −134.2
Std Dev 0
pull1D
Entries 88
Mean −0.01181
Std Dev 0.9328

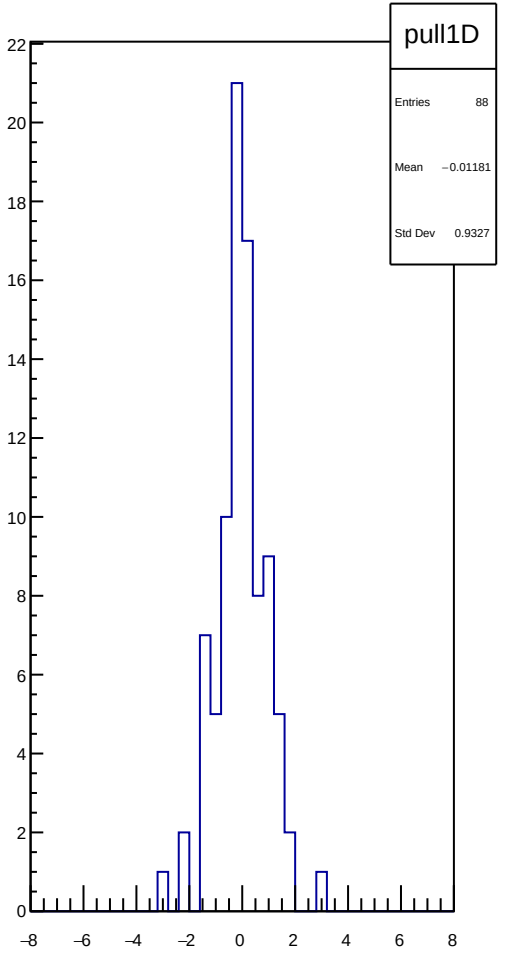

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 106.9 / 87
p0 1262 ± 0.9702
1290
1280
1270
1260
1250
1240
1230

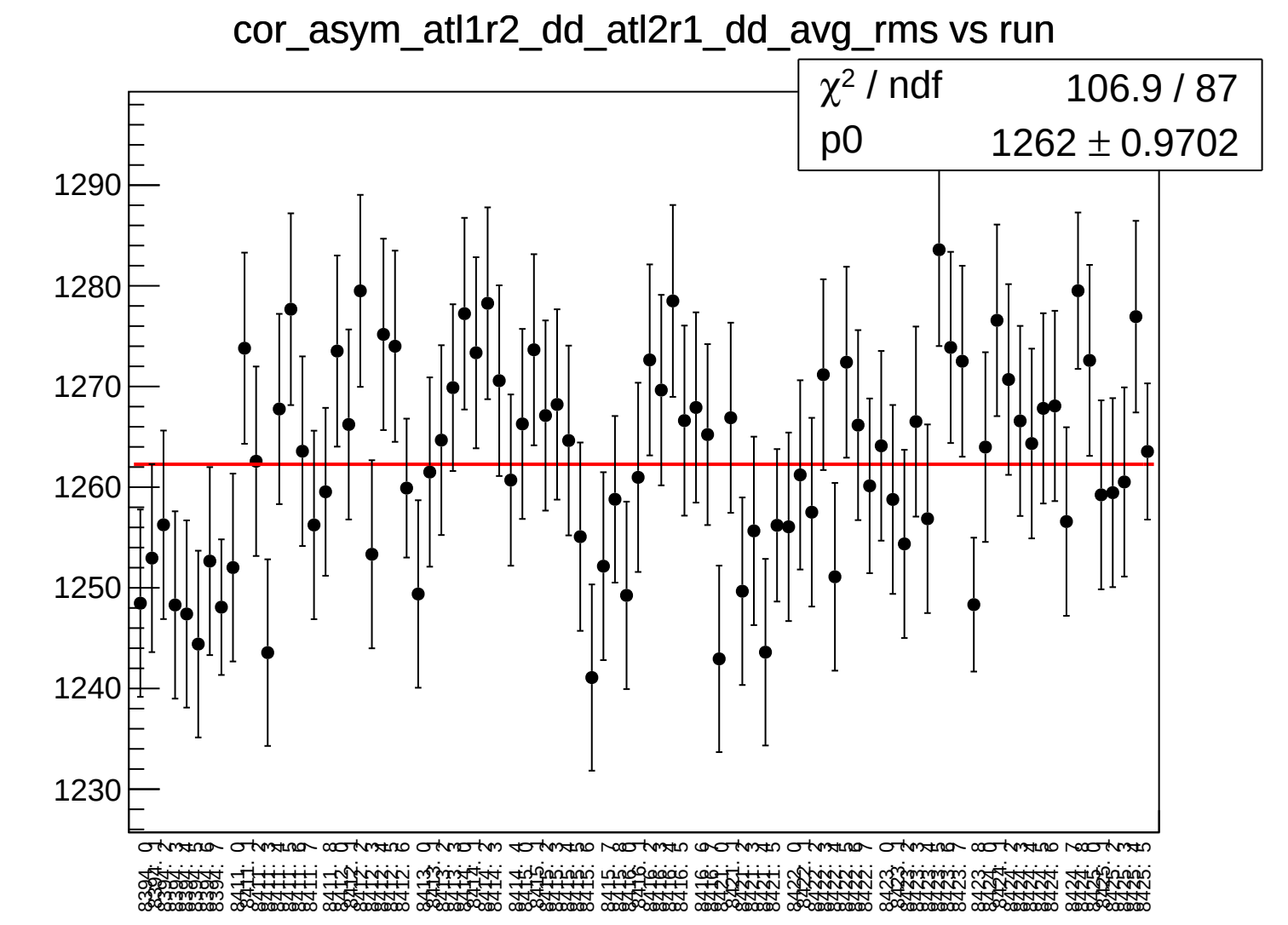

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 64.71 / 87
p0 −2357 ± 1709
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −101.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

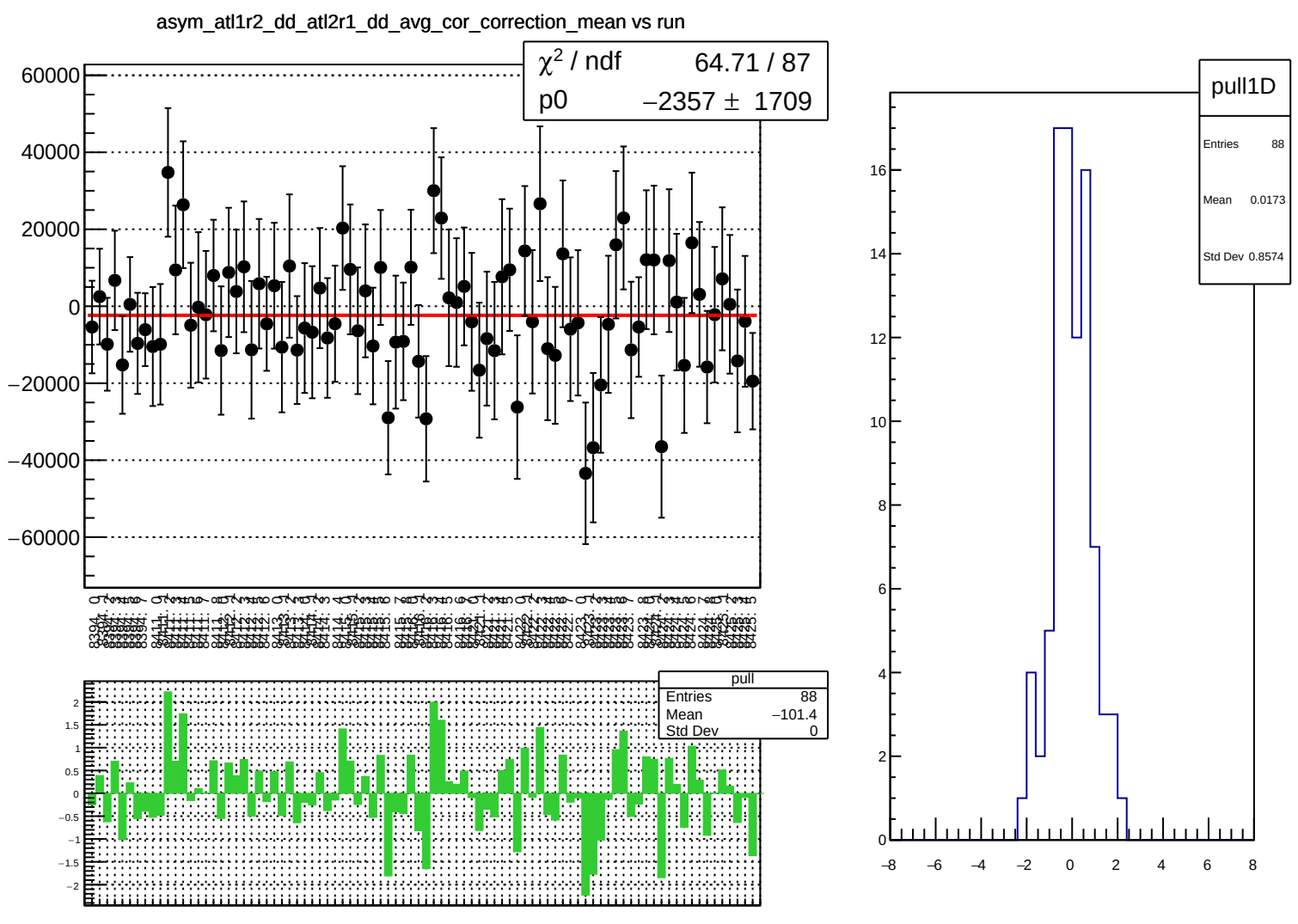

pull1D
Entries 88
Mean 0.01732
Std Dev 0.8574
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

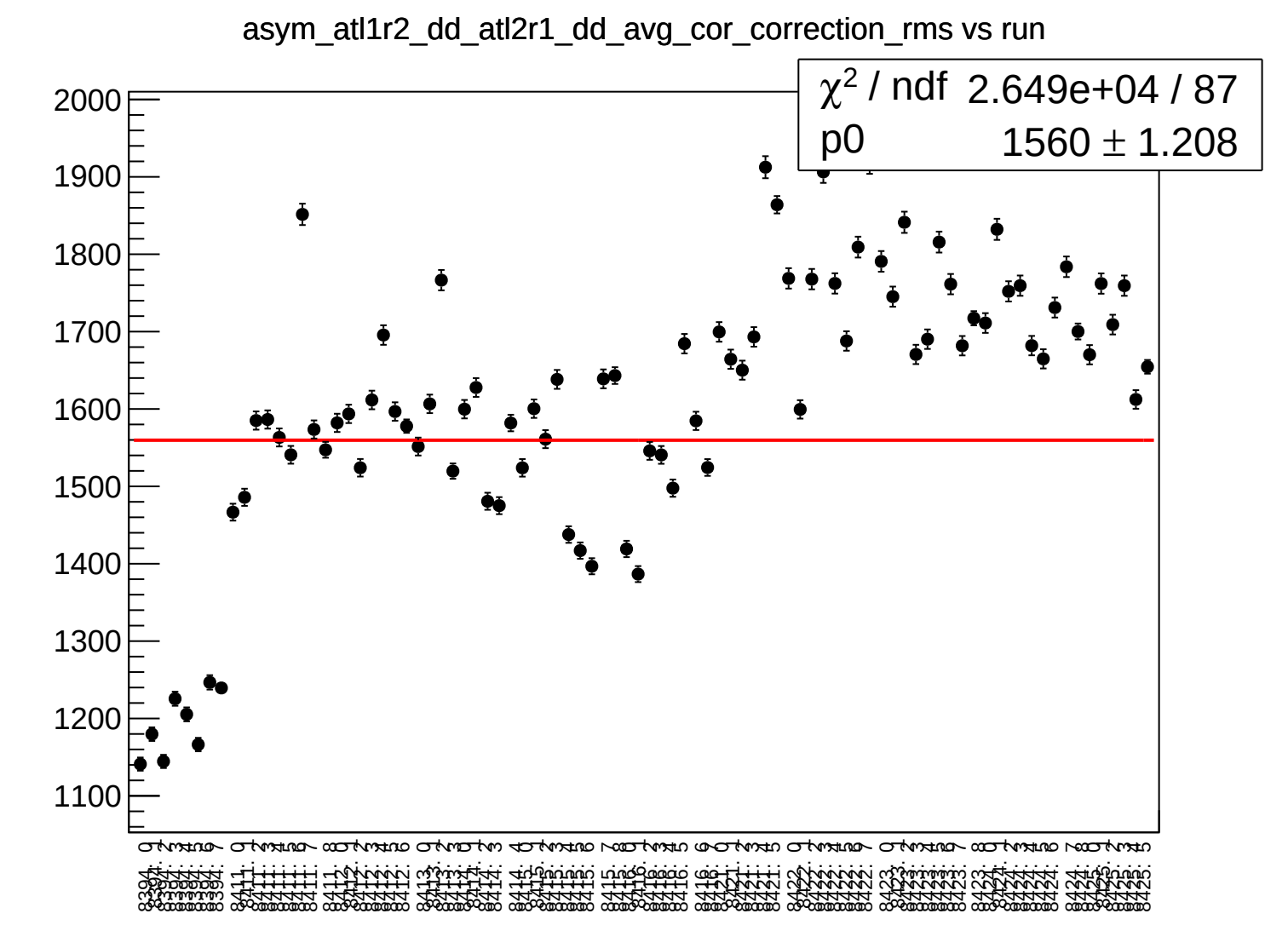

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 2.649e+04 / 87
p0 1560 ± 1.208
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100

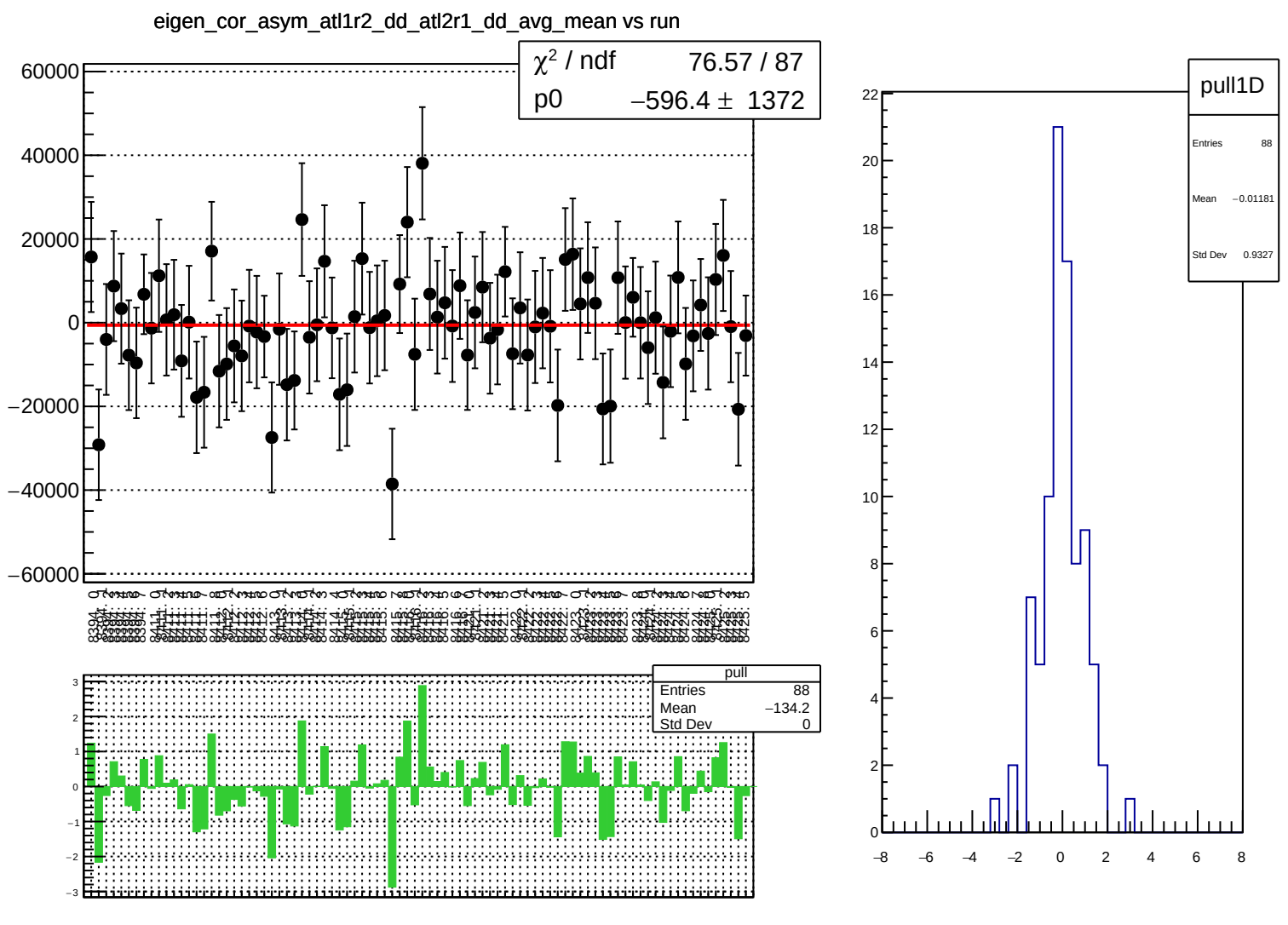

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 76.57 / 87
p0 −596.4 ± 1372
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −134.2
Std Dev 0
3
2
1
0
−1
−2
−3

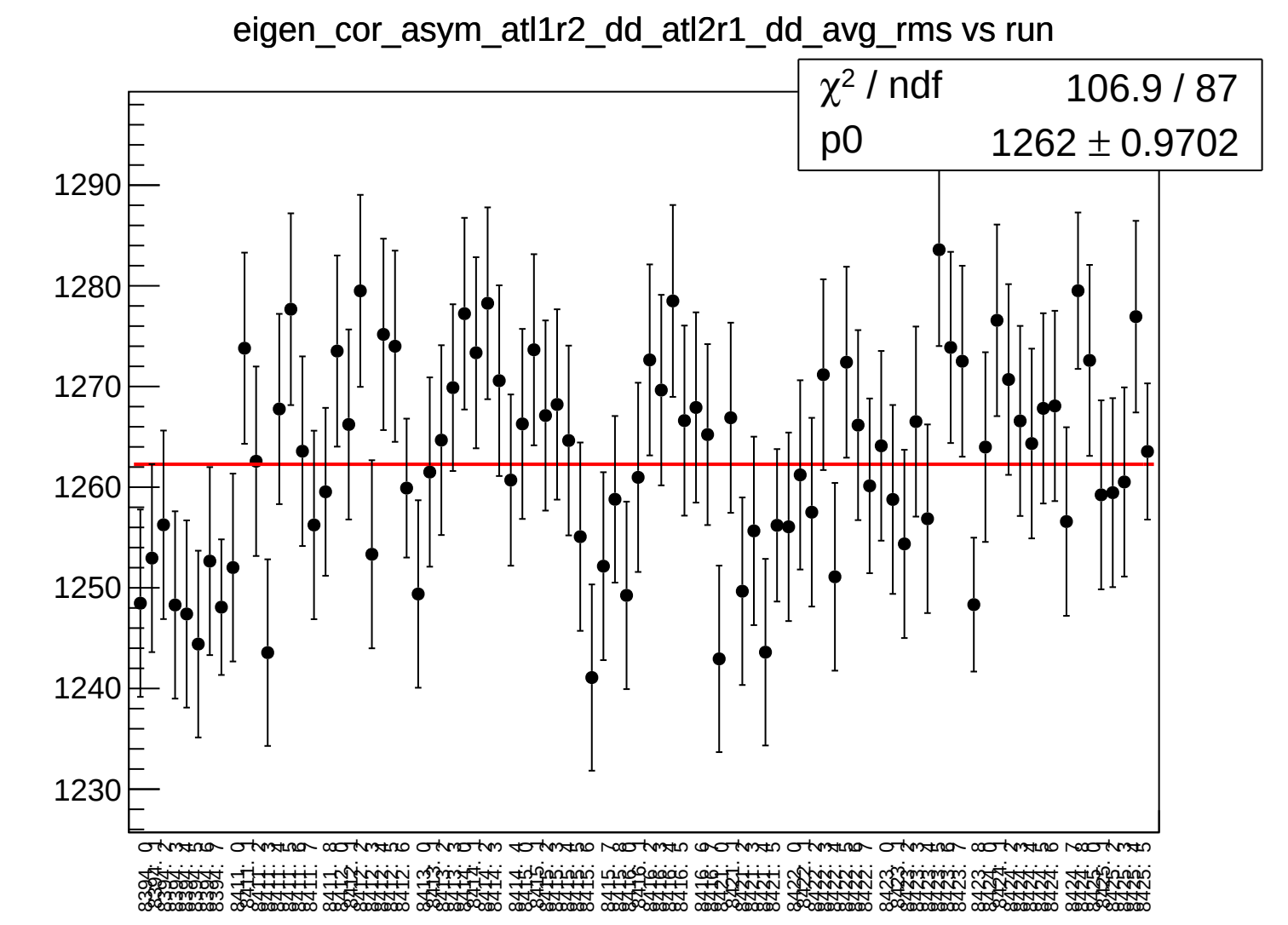

pull1D
Entries 88
Mean −0.01181
Std Dev 0.9327
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

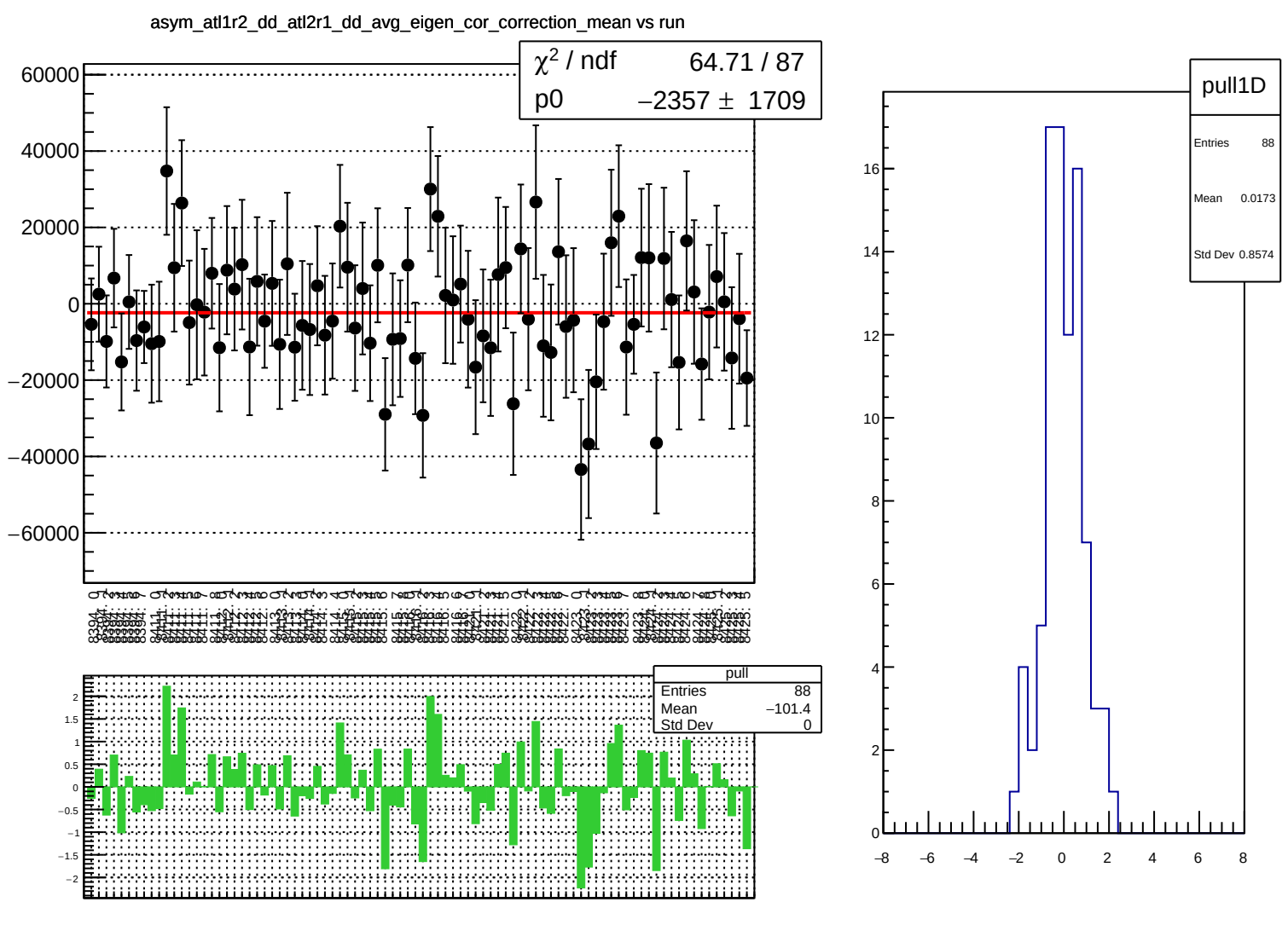

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 106.9 / 87
p0 1262 ± 0.9702
1290
1280
1270
1260
1250
1240
1230

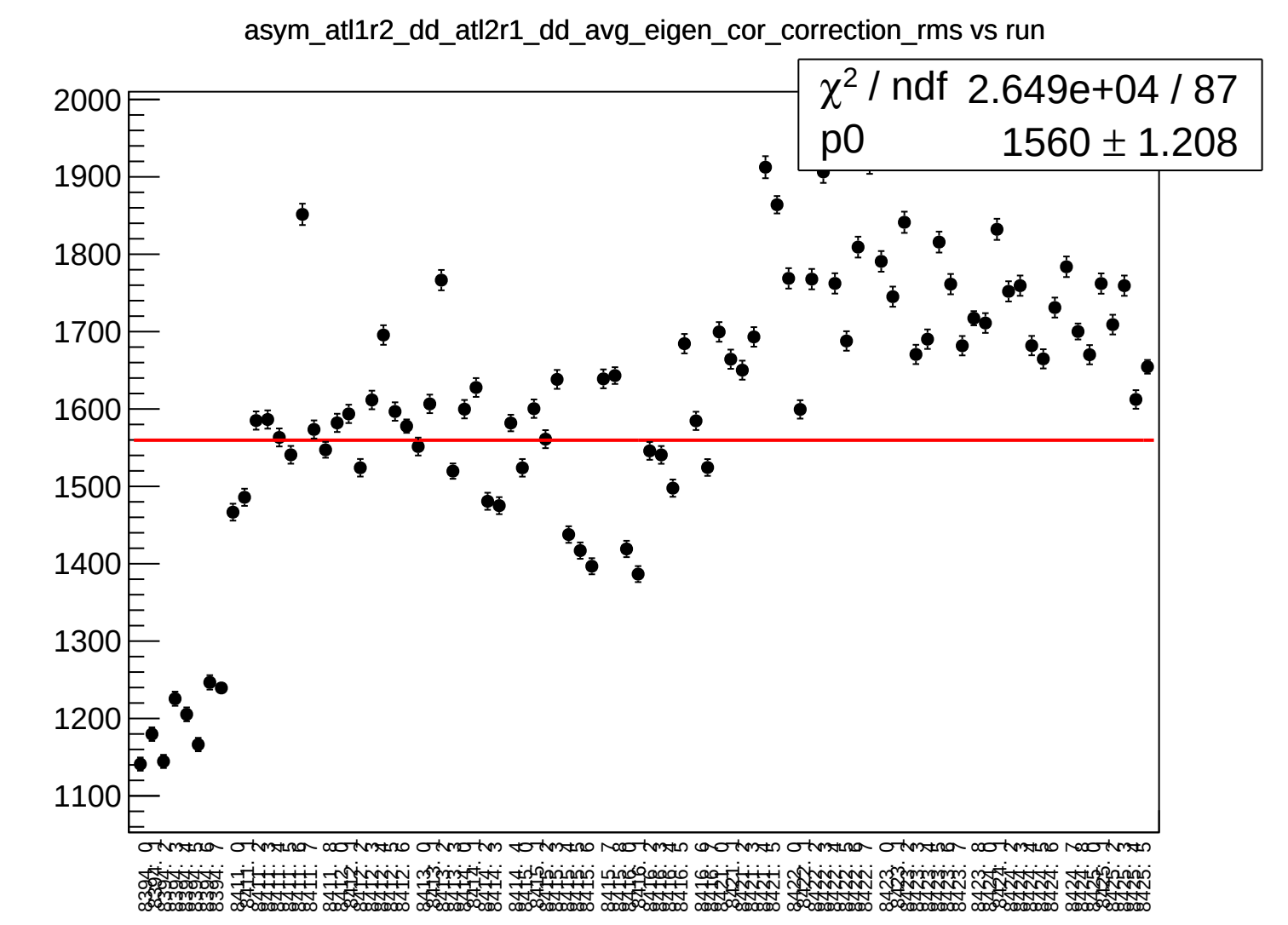

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 64.71 / 87
p0 −2357 ± 1709
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −101.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean 0.0173
Std Dev 0.8574
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

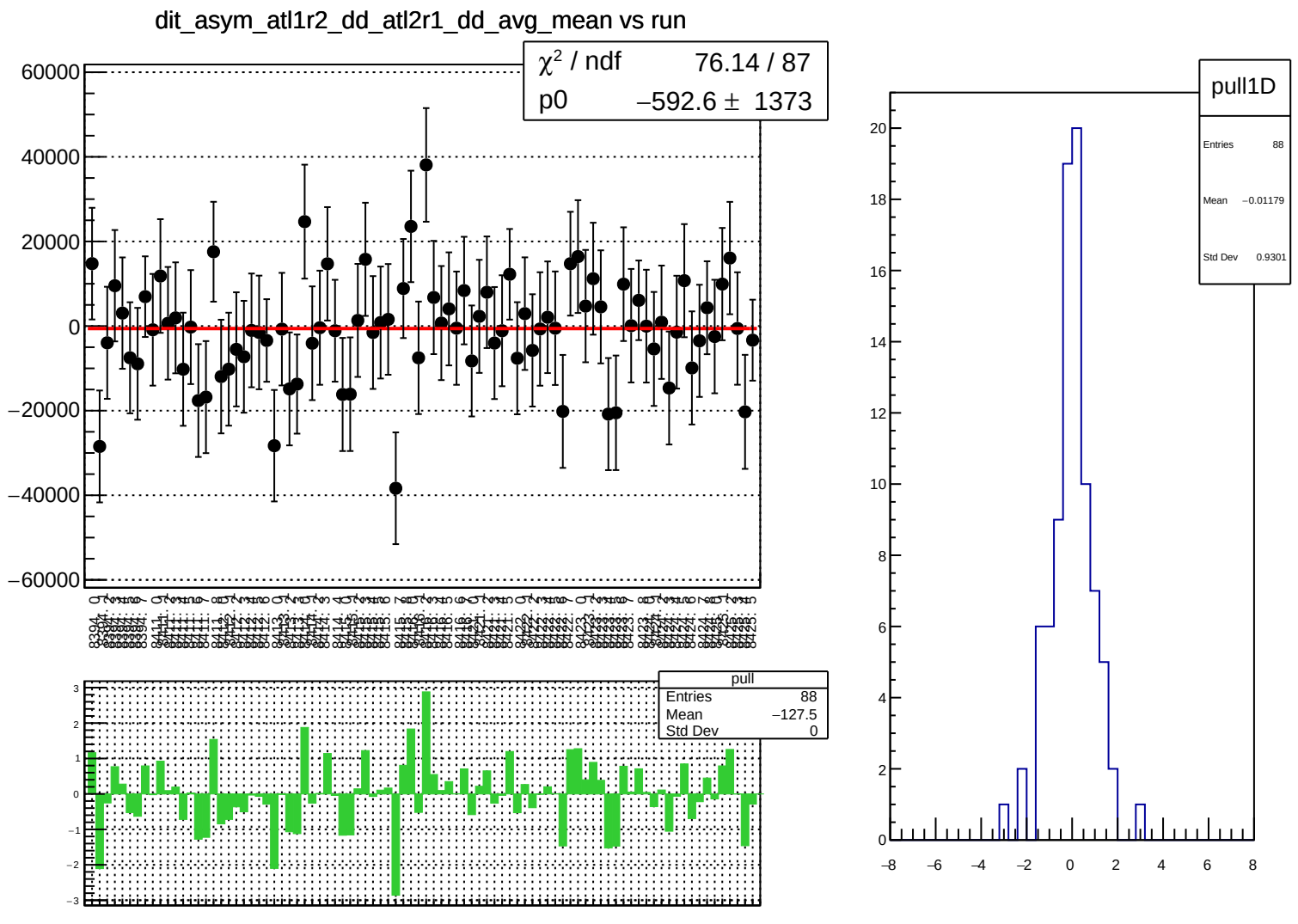

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 2.649e+04 / 87
p0 1560 ± 1.208
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100

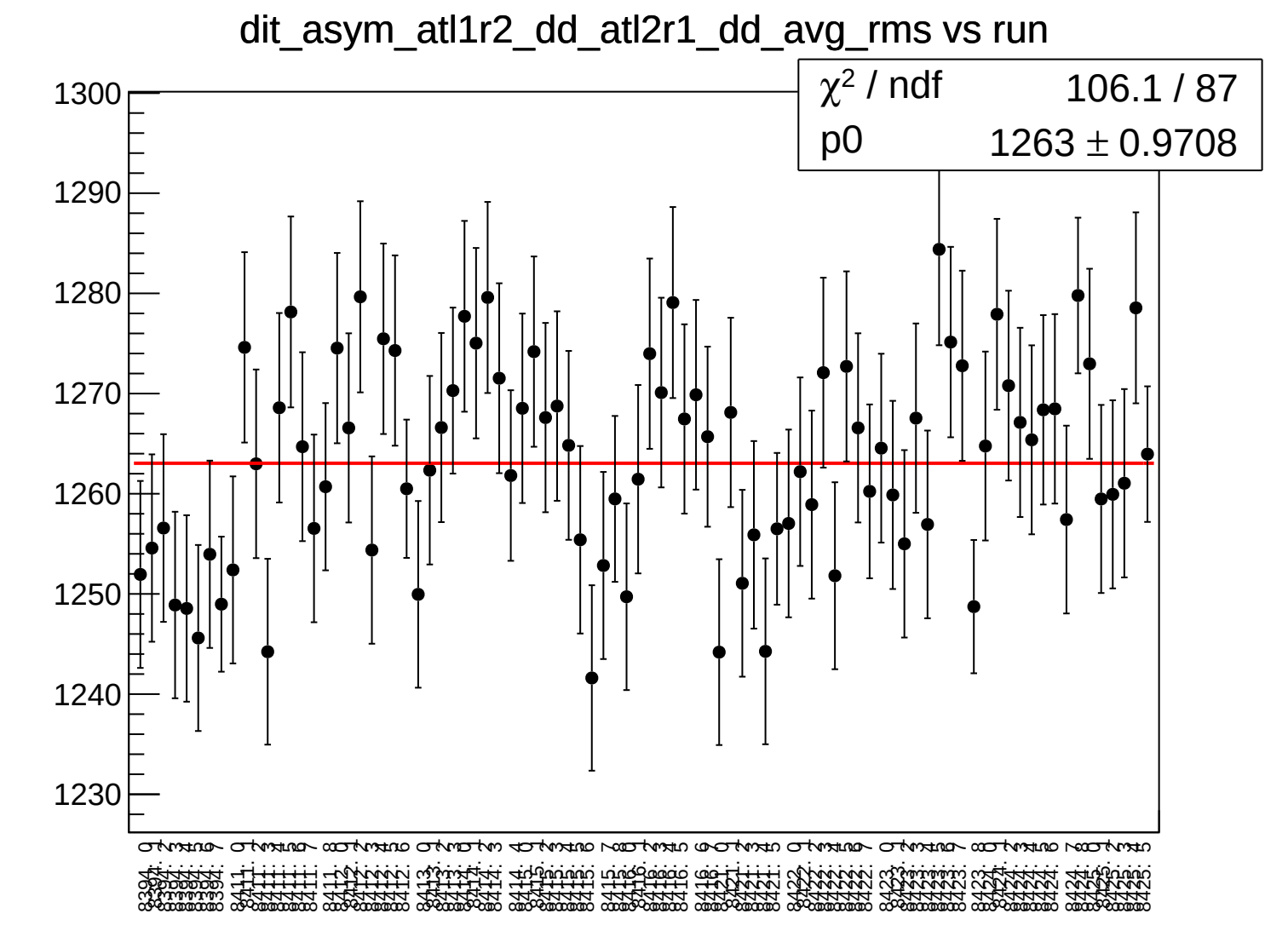

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 76.57 / 87
p0 −596.4 ± 1372
pull
Entries 88
Mean −134.2
Std Dev 0
pull1D
Entries 88
Mean −0.01181
Std Dev 0.9327

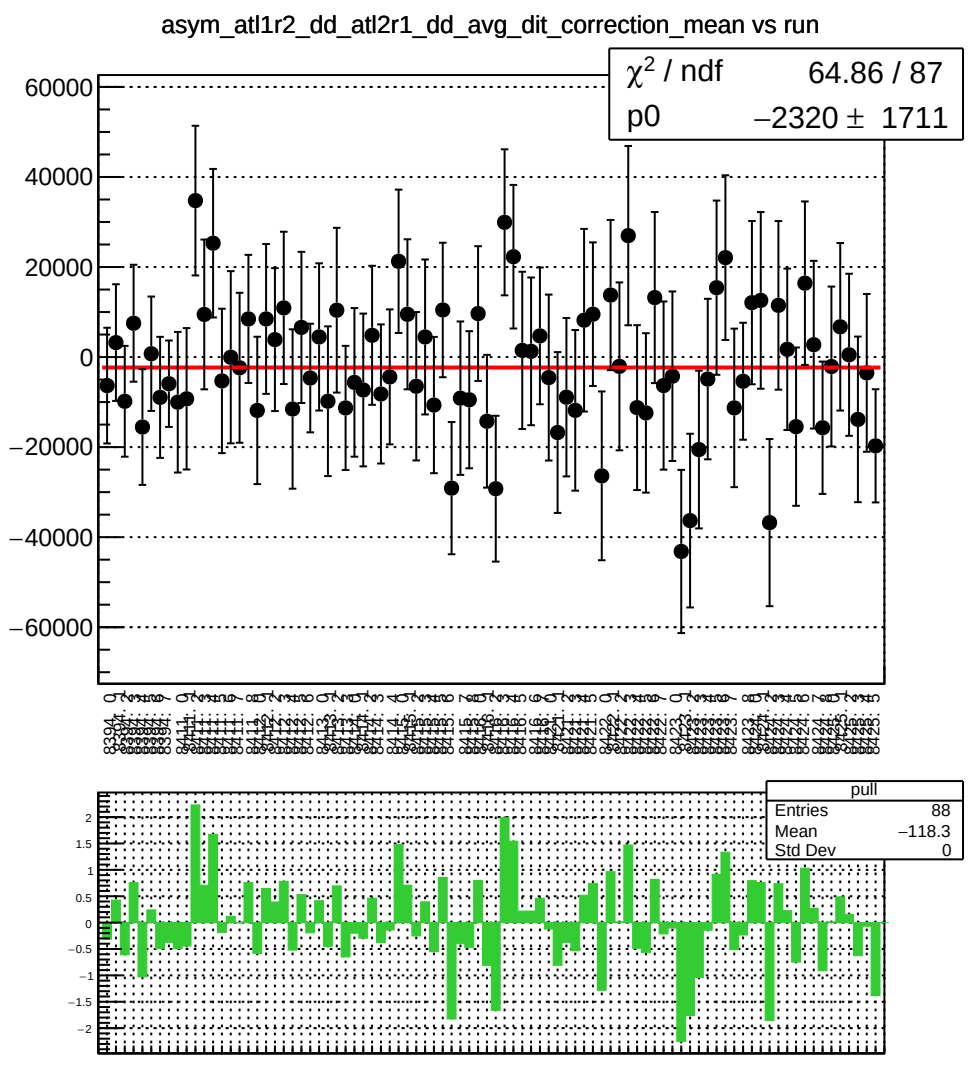

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ2 / ndf 106.9 / 87
p0 1262 ± 0.9702
1290
1280
1270
1260
1250
1240
1230

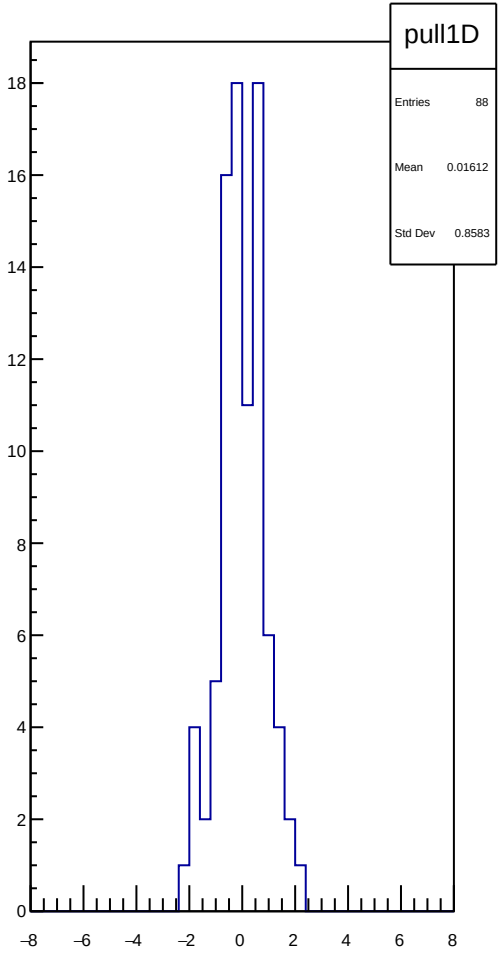

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 64.71 / 87
p0 −2357 ± 1709
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −101.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean 0.0173
Std Dev 0.8574
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

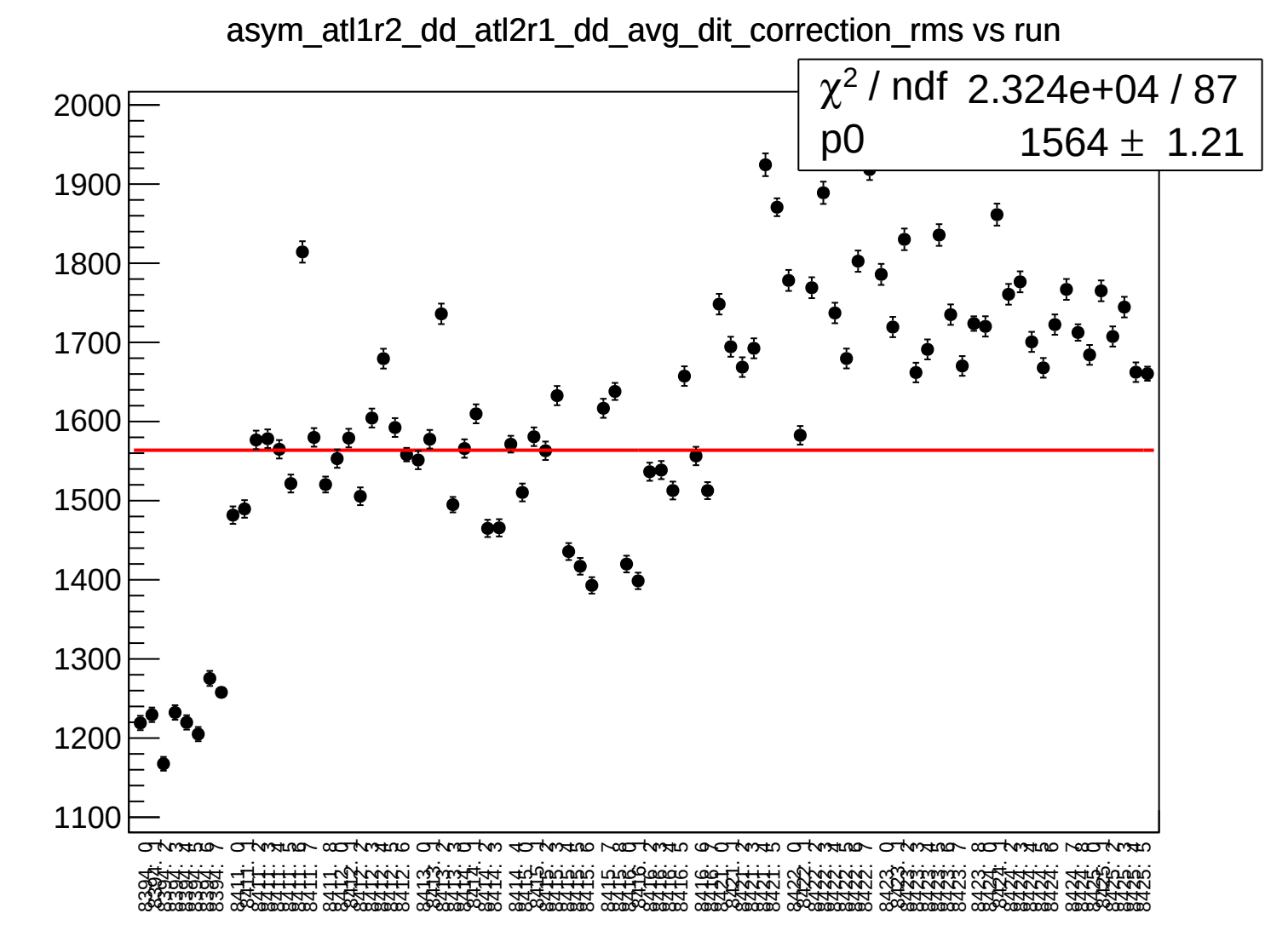

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.649e+04 / 87
p0 1560 ± 1.208
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100

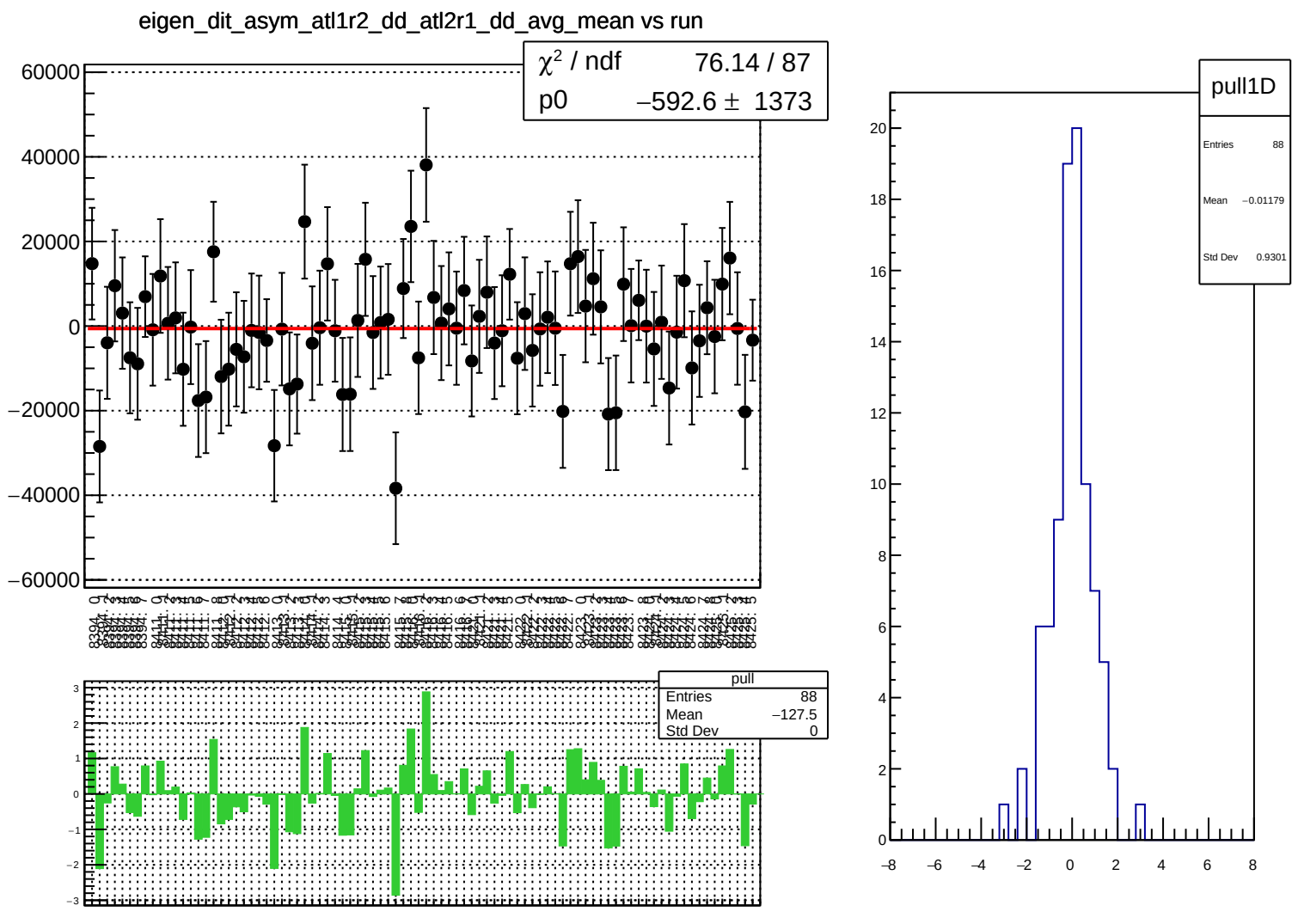

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 76.14 / 87
p0 −592.6 ± 1373
pull
Entries 88
Mean −127.5
Std Dev 0
pull1D
Entries 88
Mean −0.01179
Std Dev 0.9301

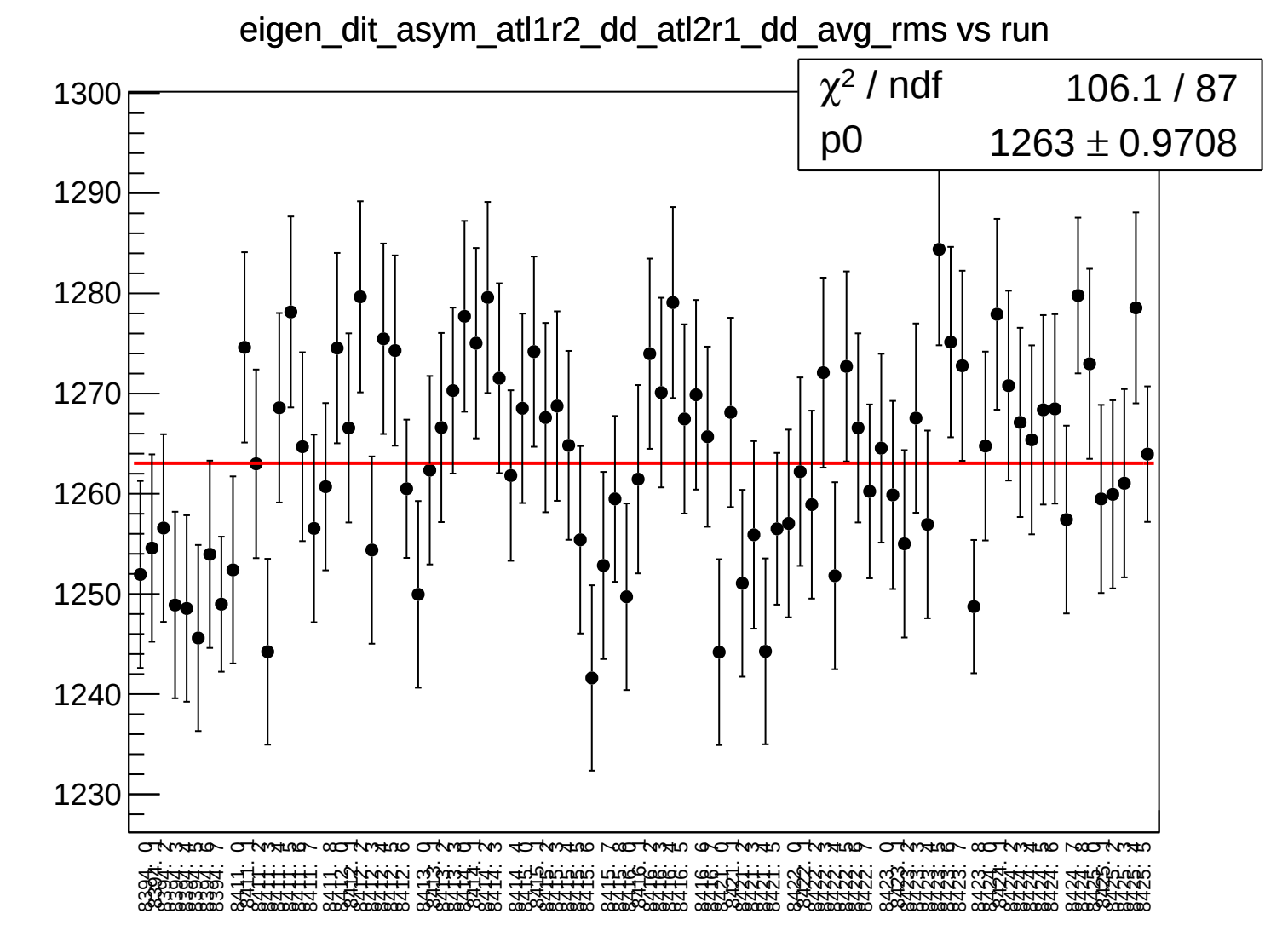

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 106.1 / 87
p0 1263 ± 0.9708
1300
1290
1280
1270
1260
1250
1240
1230

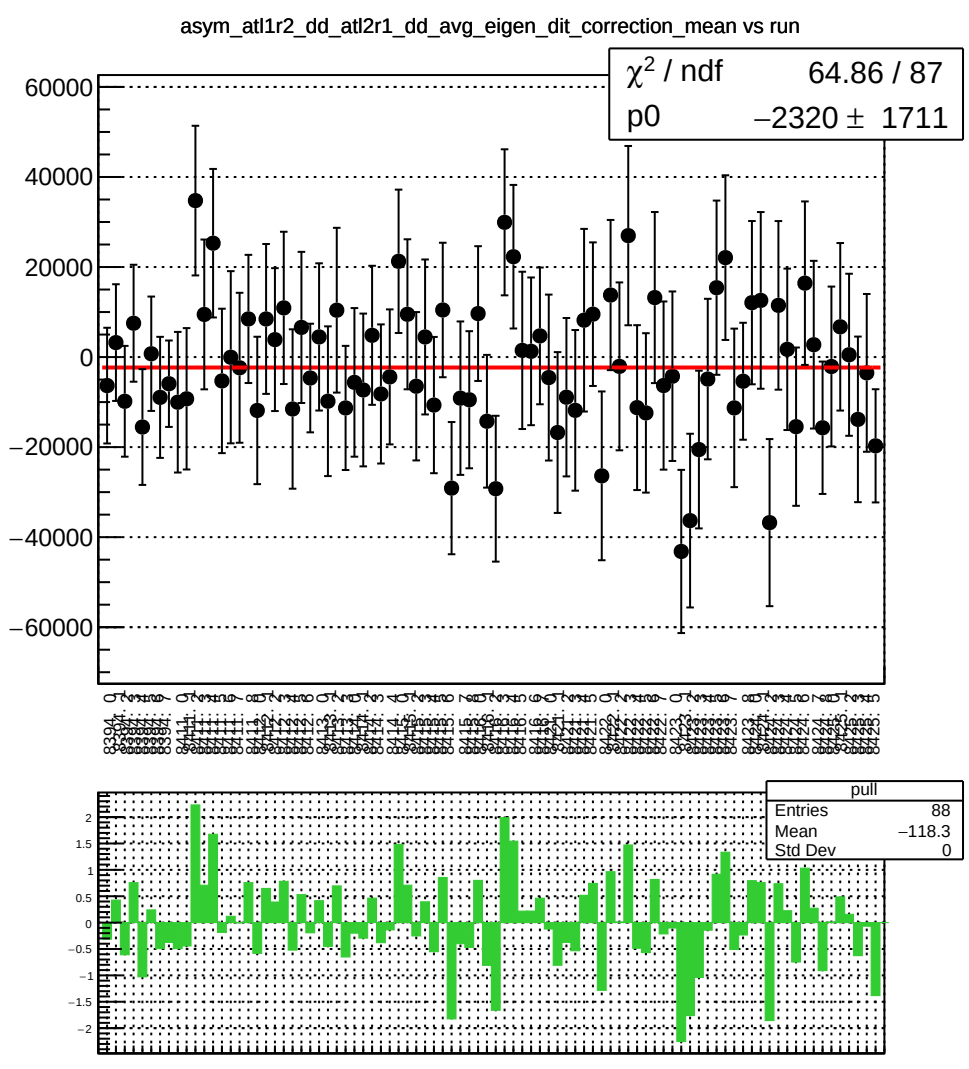

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 64.86 / 87
p0 −2320 ± 1711
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −118.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

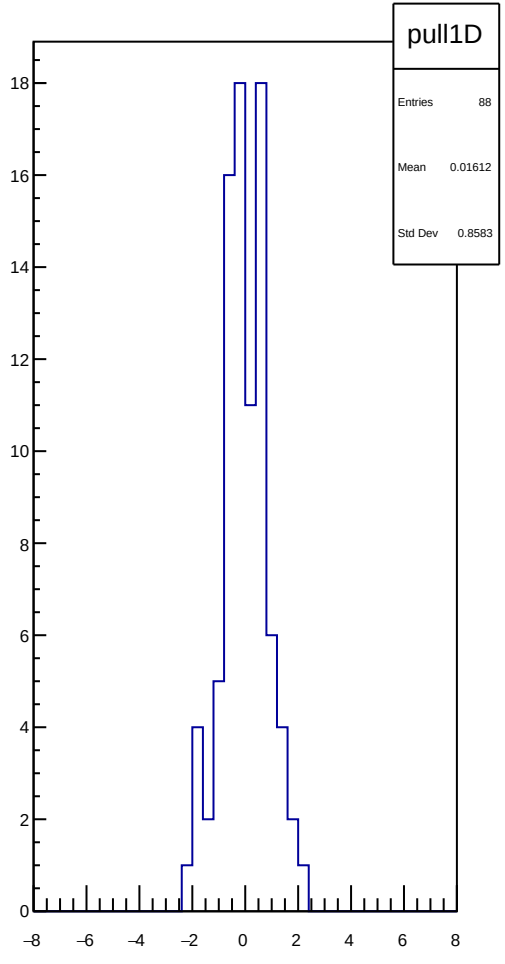

pull1D
Entries 88
Mean 0.01612
Std Dev 0.8583
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

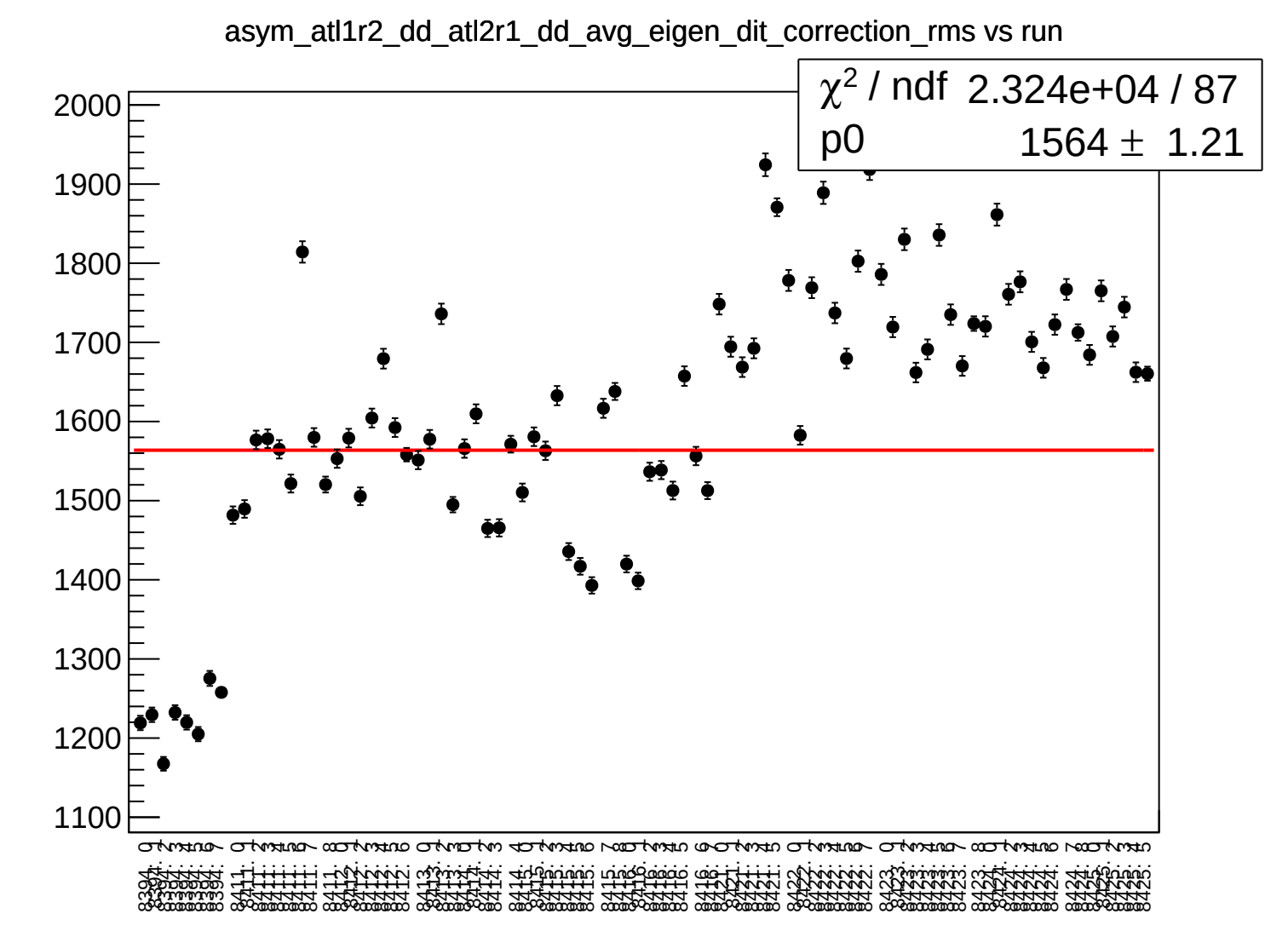

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 2.324e+04 / 87
p0 1564 ± 1.21
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100

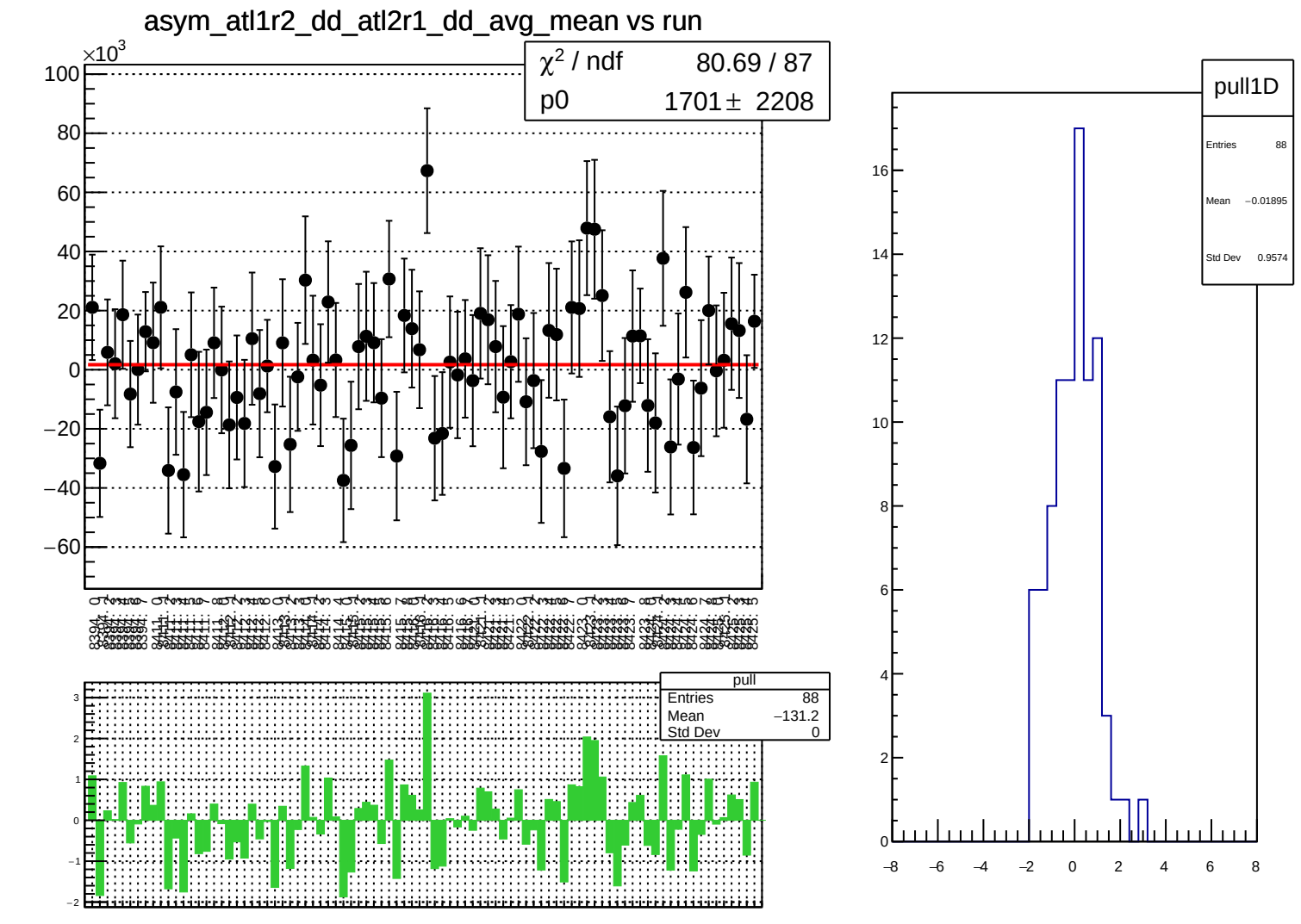

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 76.14 / 87
p0 −592.6 ± 1373
pull
Entries 88
Mean −127.5
Std Dev 0
pull1D
Entries 88
Mean −0.01179
Std Dev 0.9301

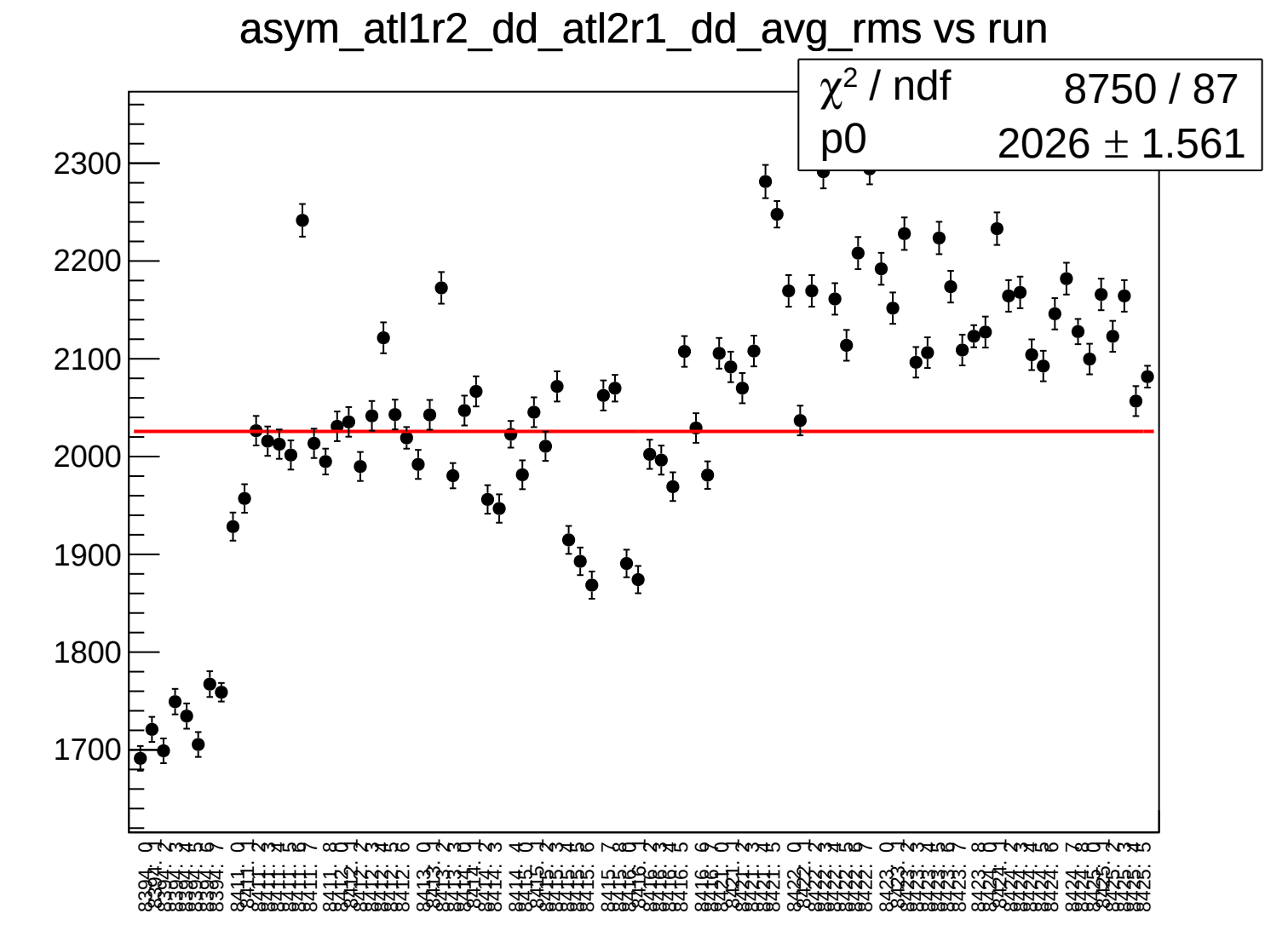

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 106.1 / 87
p0 1263 ± 0.9708
1300
1290
1280
1270
1260
1250
1240
1230

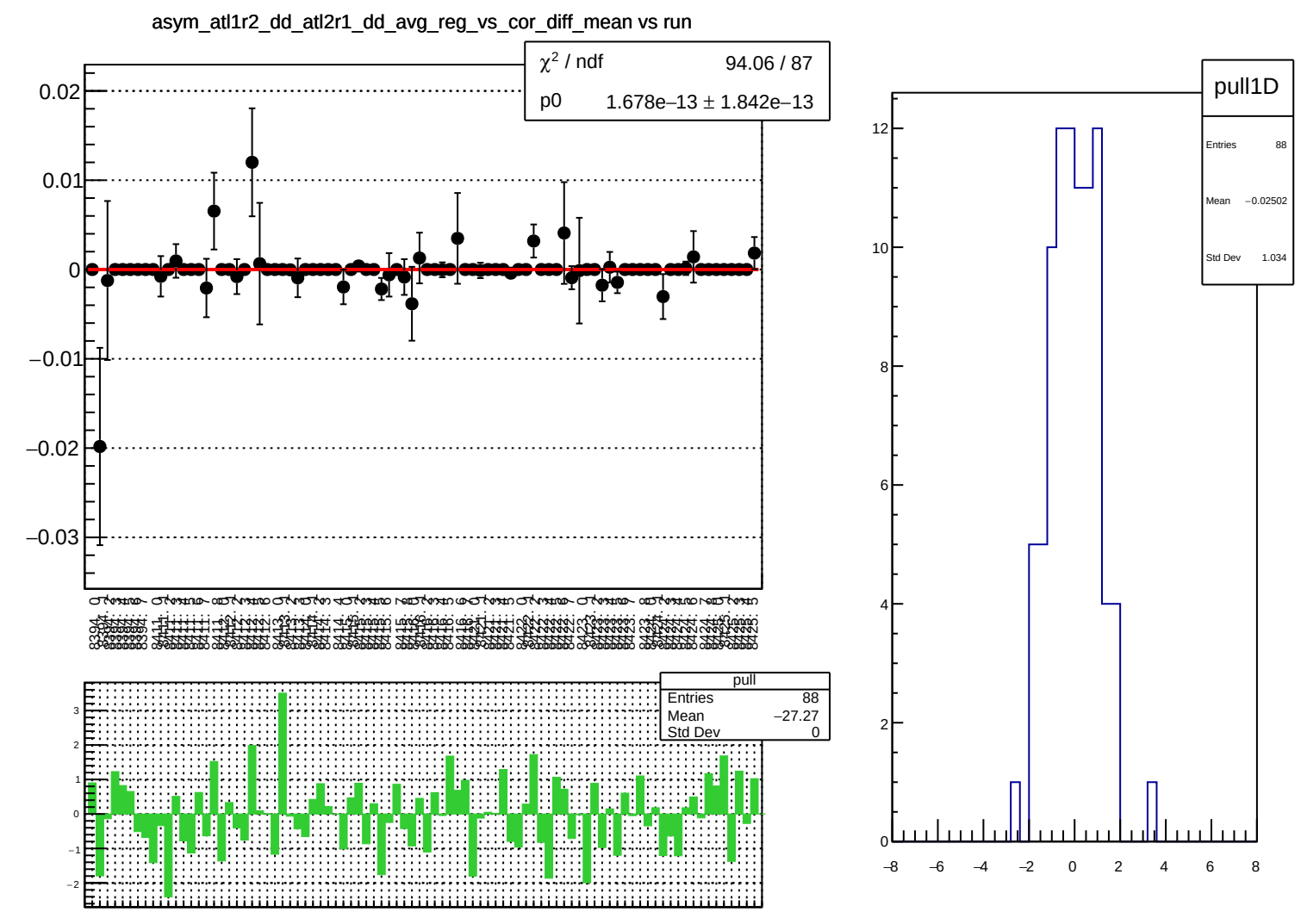

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 64.86 / 87
p0 −2320 ± 1711
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −118.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

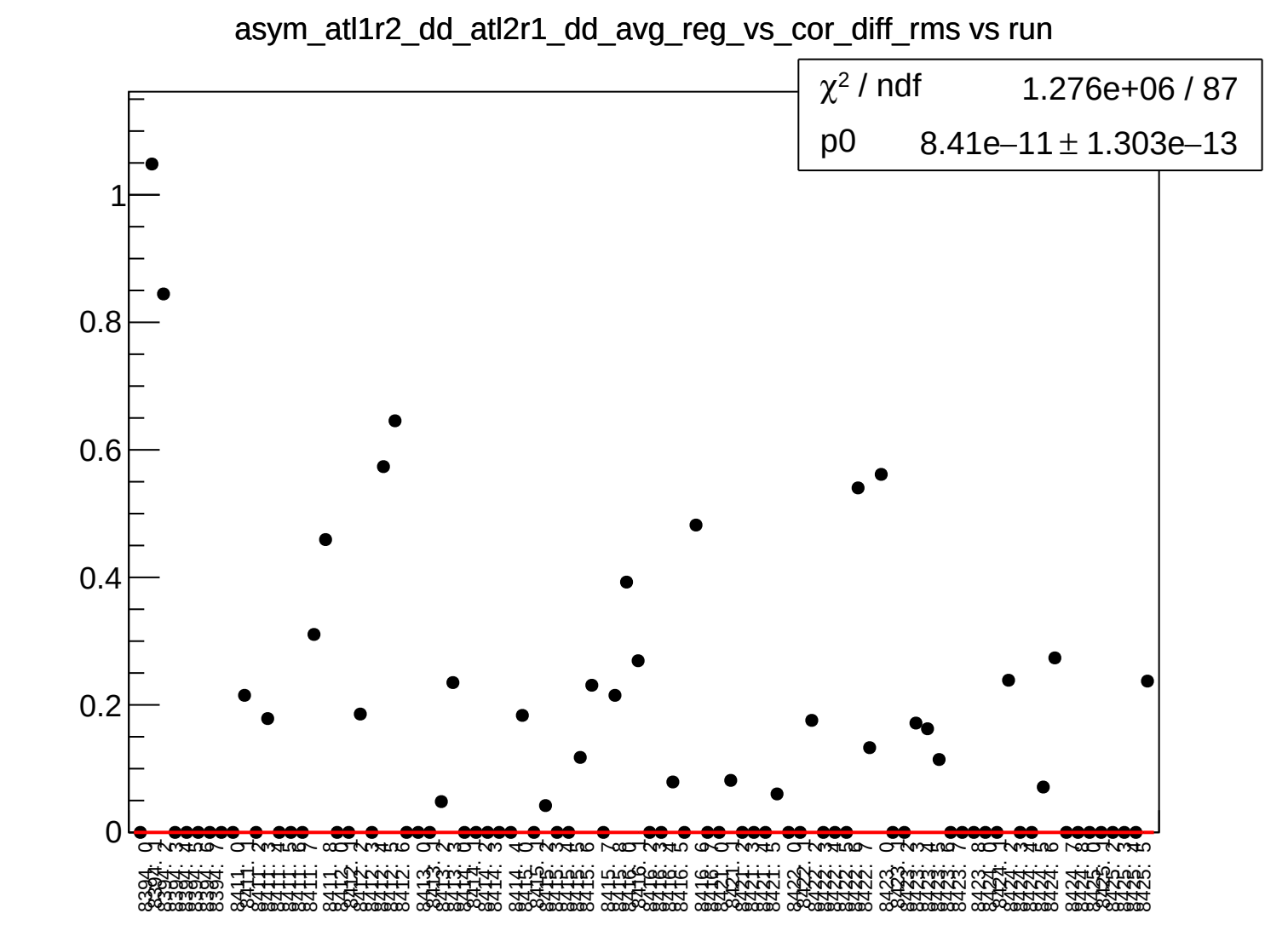

pull1D
Entries 88
Mean 0.01612
Std Dev 0.8583
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

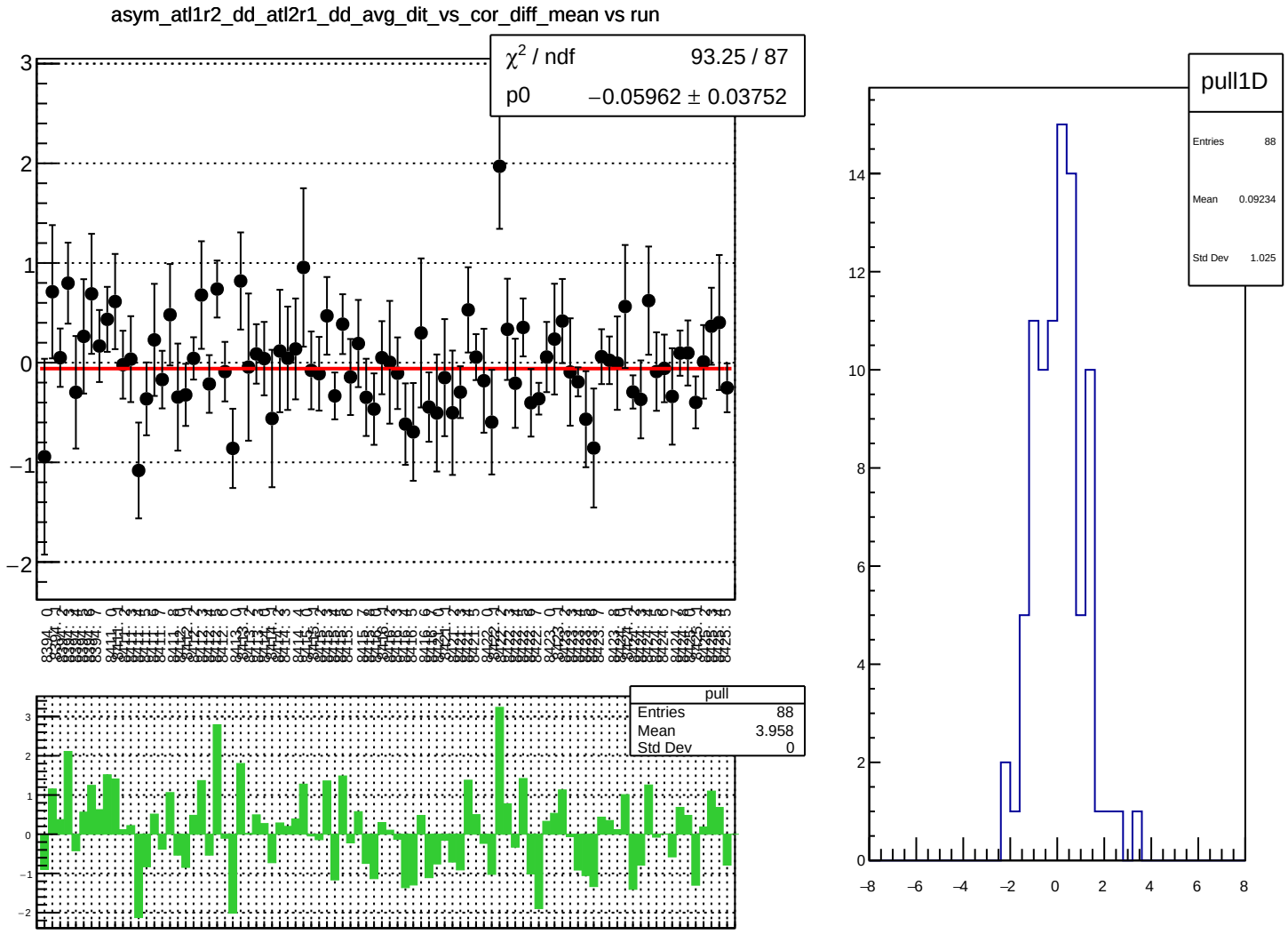

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.324e+04 / 87
p0 1564 ± 1.21
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100

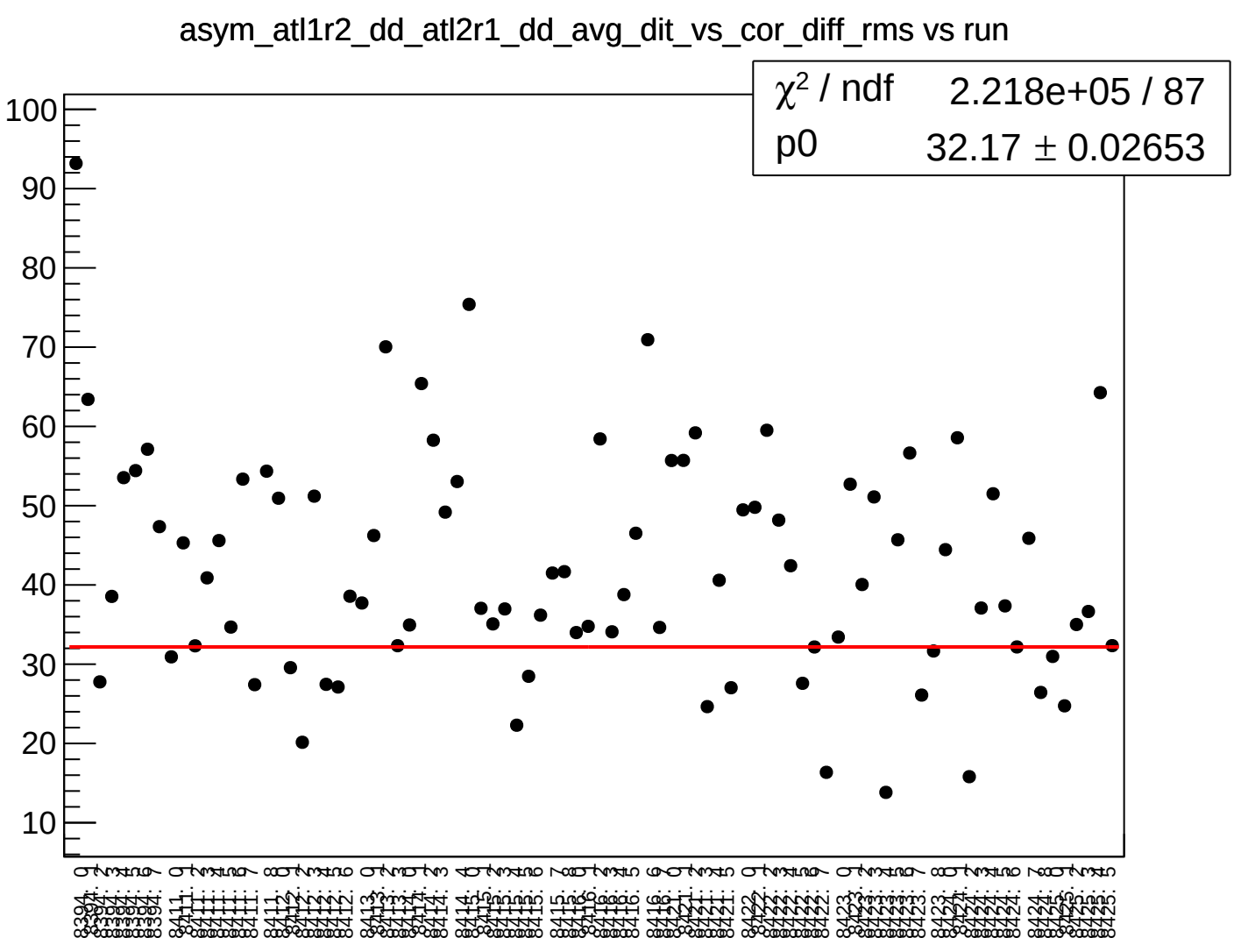

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
×10^3
χ^2 / ndf 80.69 / 87
p0 1701 ± 2208
pull
Entries 88
Mean −131.2
Std Dev 0
pull1D
Entries 88
Mean −0.01895
Std Dev 0.9574

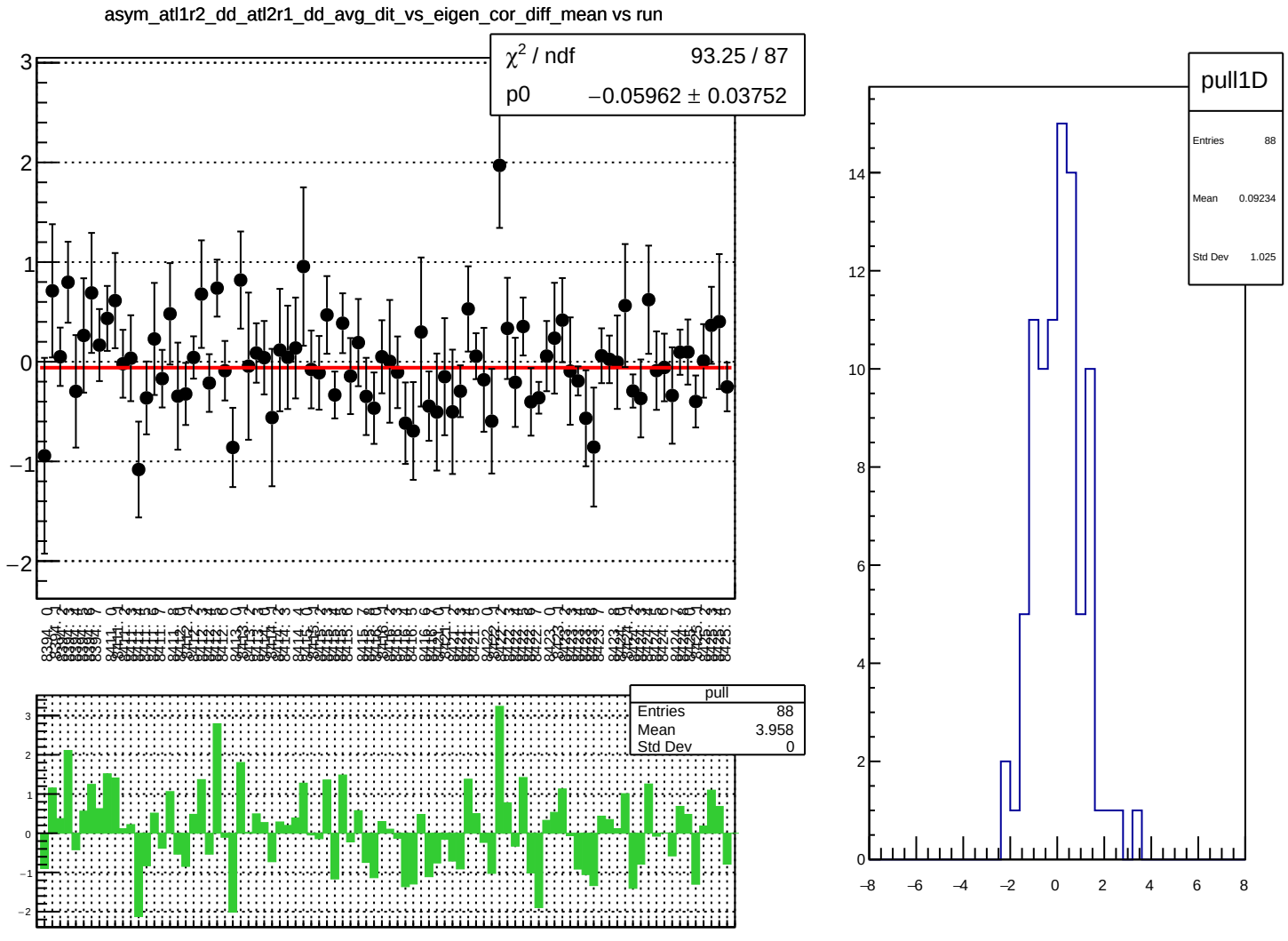

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 8750 / 87
p0 2026 ± 1.561
2300
2200
2100
2000
1900
1800
1700

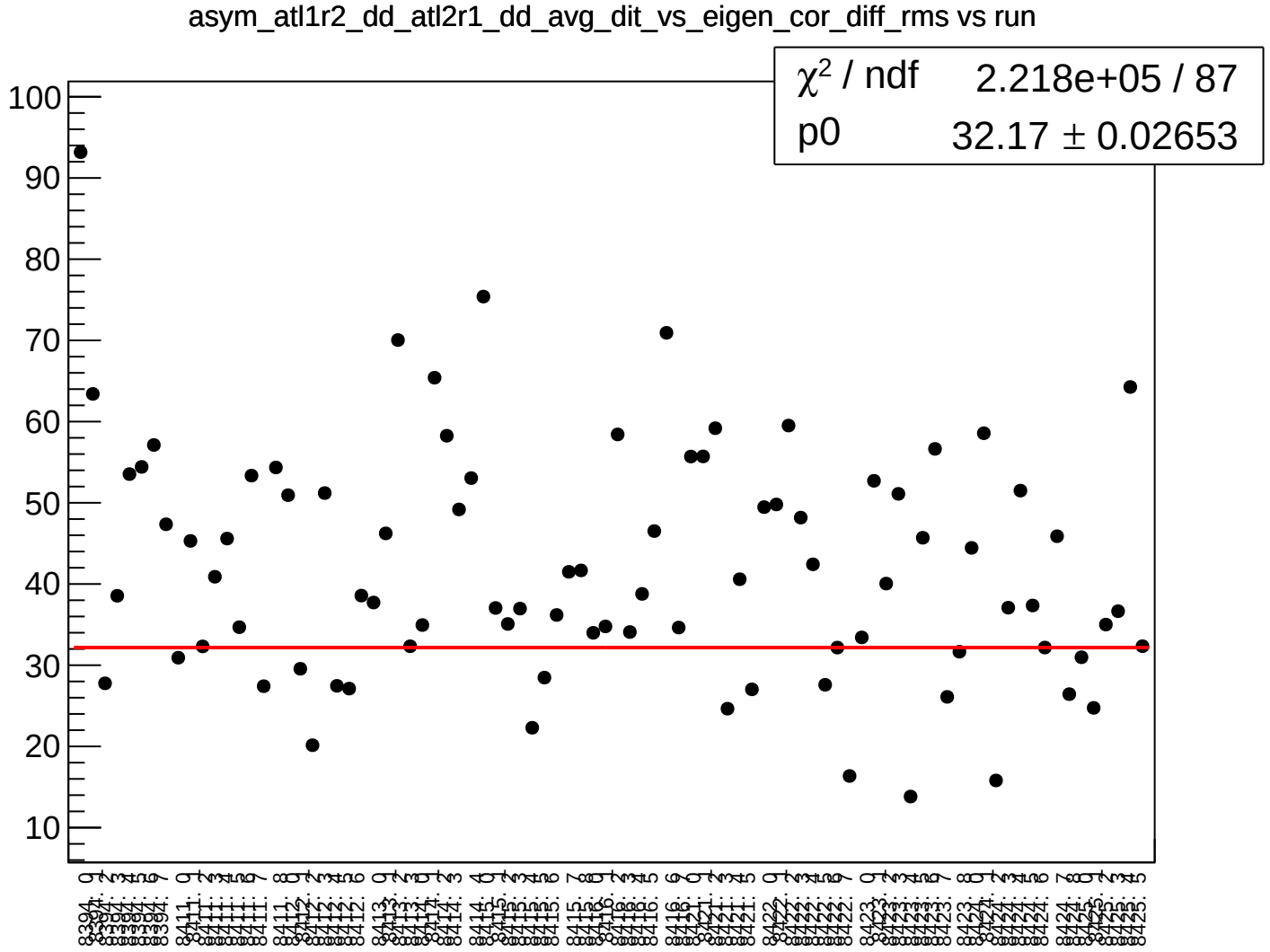

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 94.06 / 87
p0 1.678e−13 ± 1.842e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 88
Mean −27.27
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.02502
Std Dev 1.034
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

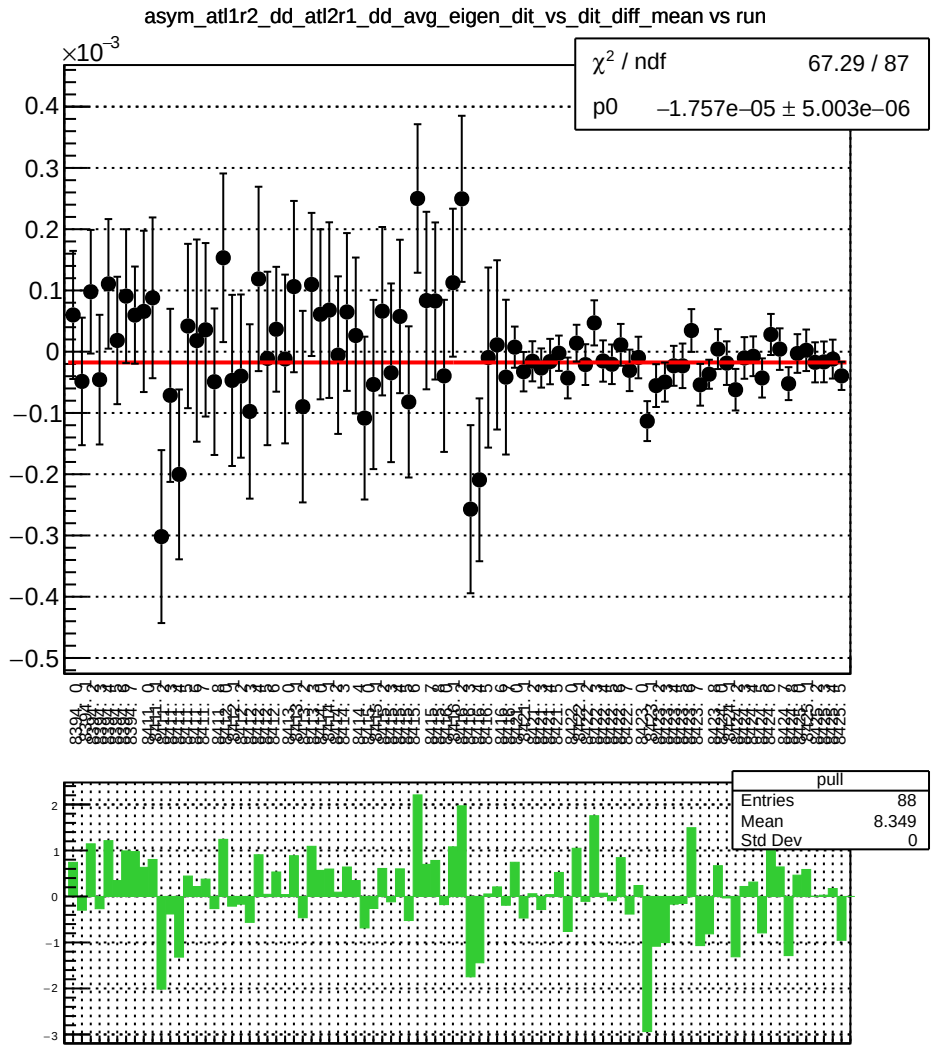

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.276e+06 / 87
p0 8.41e−11 ± 1.303e−13
1
0.8
0.6
0.4
0.2
0

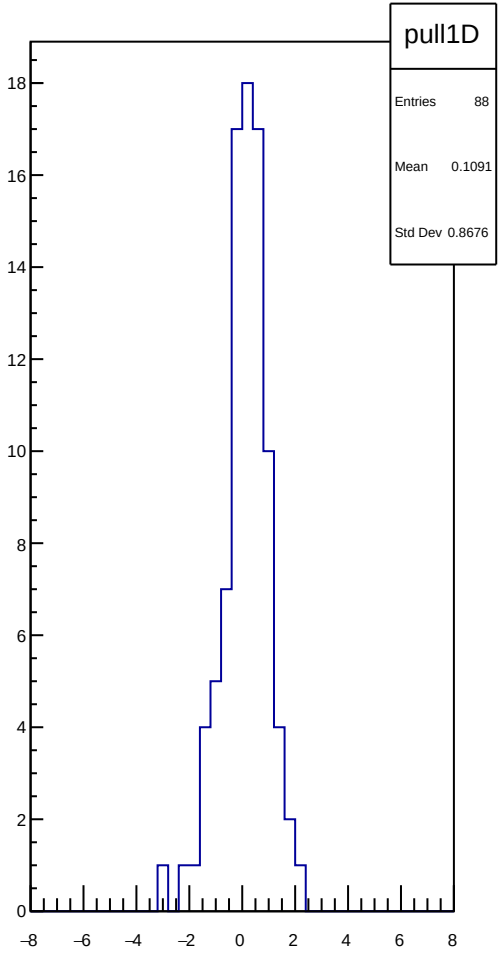

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.25 / 87
p0 −0.05962 ± 0.03752
pull
Entries 88
Mean 3.958
Std Dev 0
pull1D
Entries 88
Mean 0.09234
Std Dev 1.025

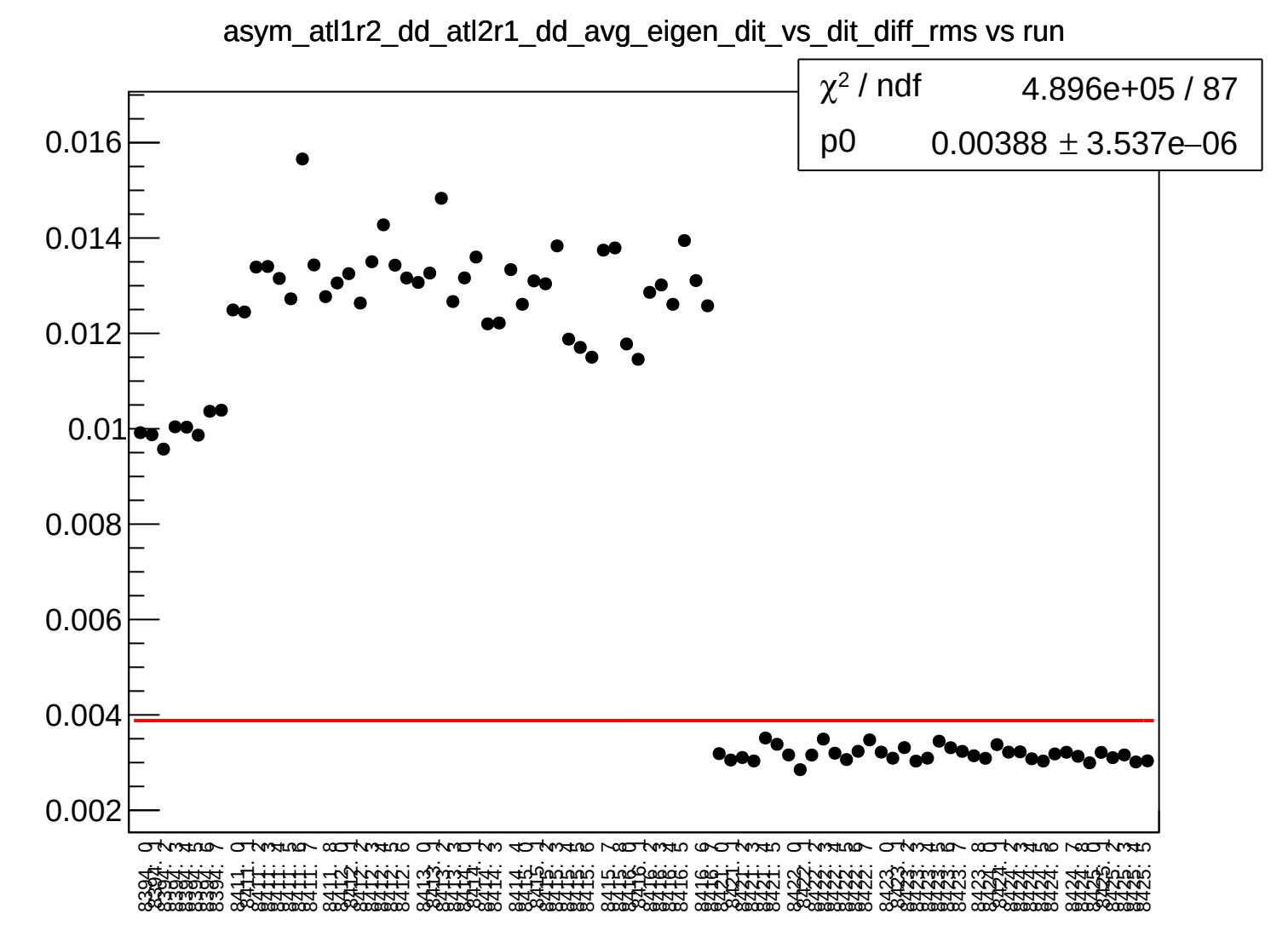

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.218e+05 / 87
p0 32.17 ± 0.02653
100
90
80
70
60
50
40
30
20
10

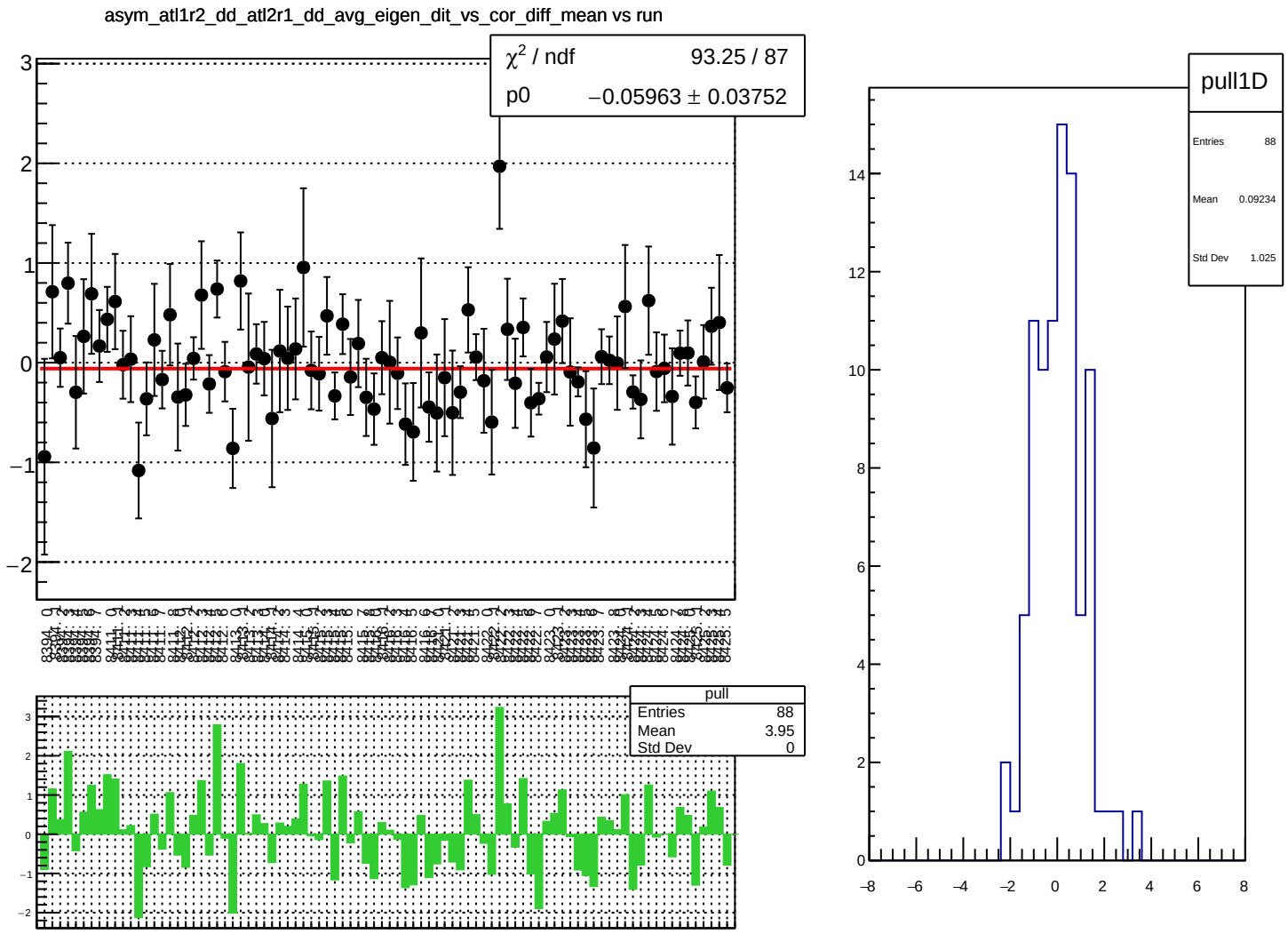

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.25 / 87
p0 −0.05962 ± 0.03752
pull
Entries 88
Mean 3.958
Std Dev 0
pull1D
Entries 88
Mean 0.09234
Std Dev 1.025

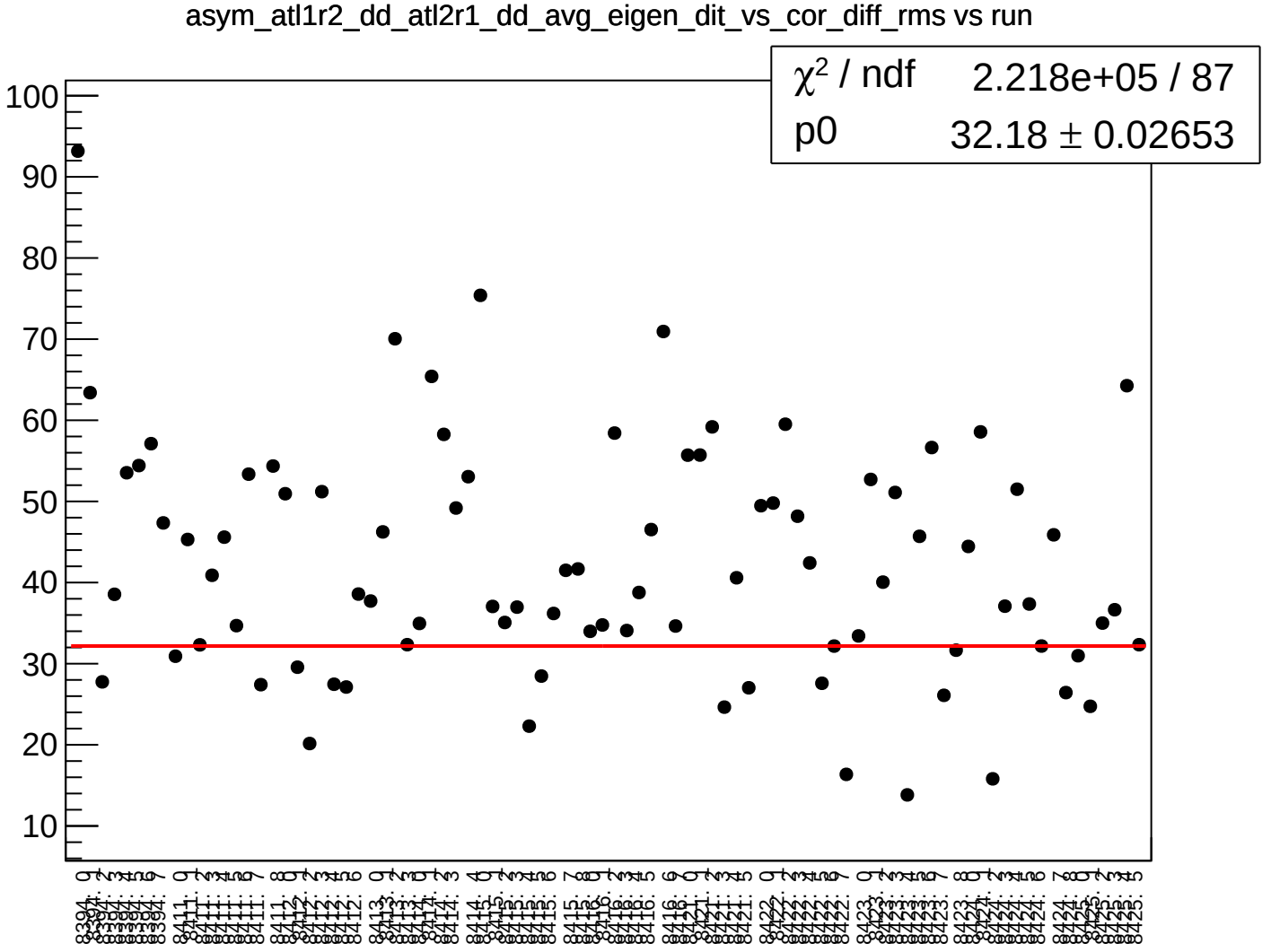

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.218e+05 / 87
p0 32.17 ± 0.02653
100
90
80
70
60
50
40
30
20
10

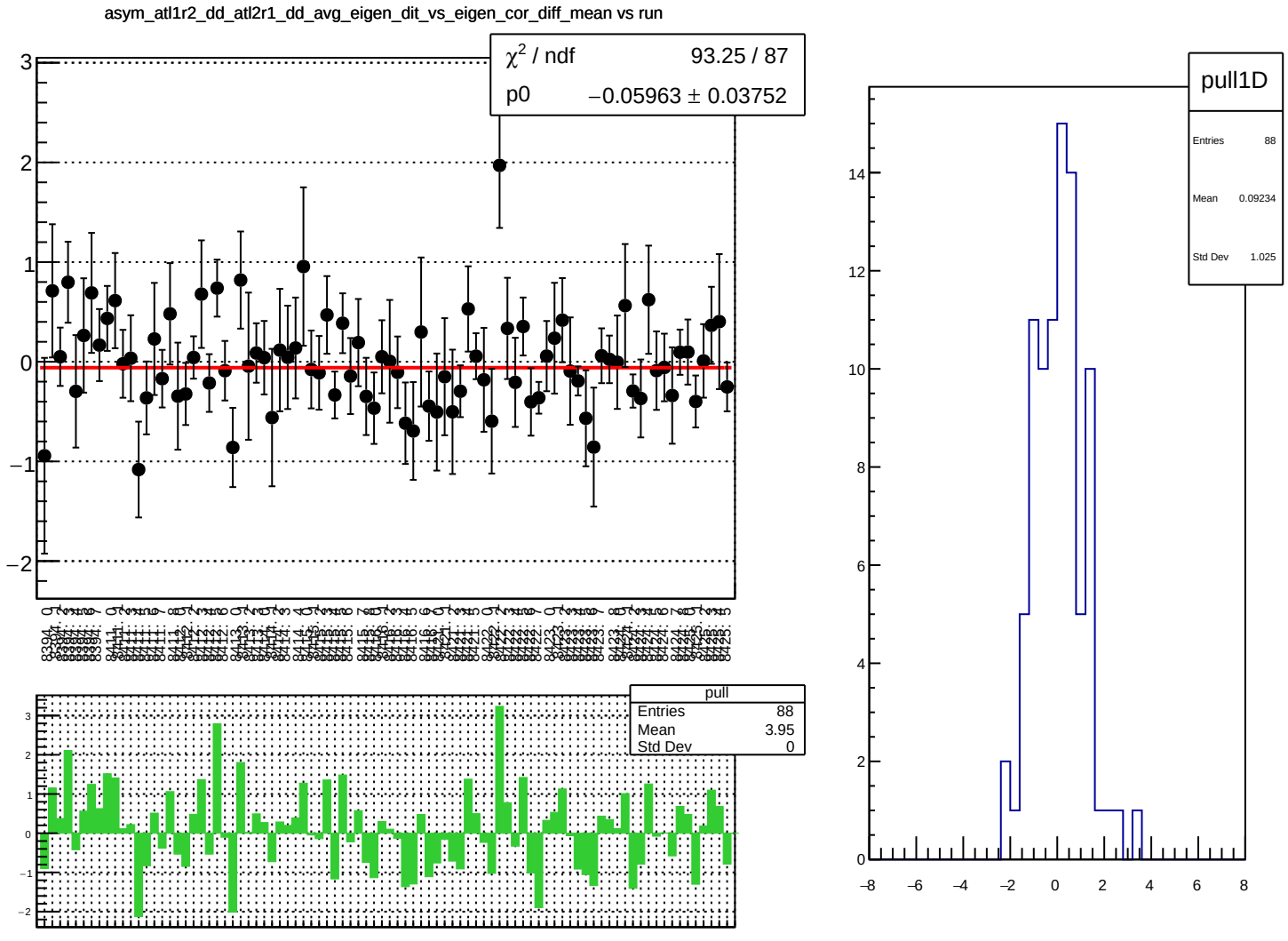

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 67.29 / 87
p0 −1.757e−05 ± 5.003e−06
pull
Entries 88
Mean 8.349
Std Dev 0

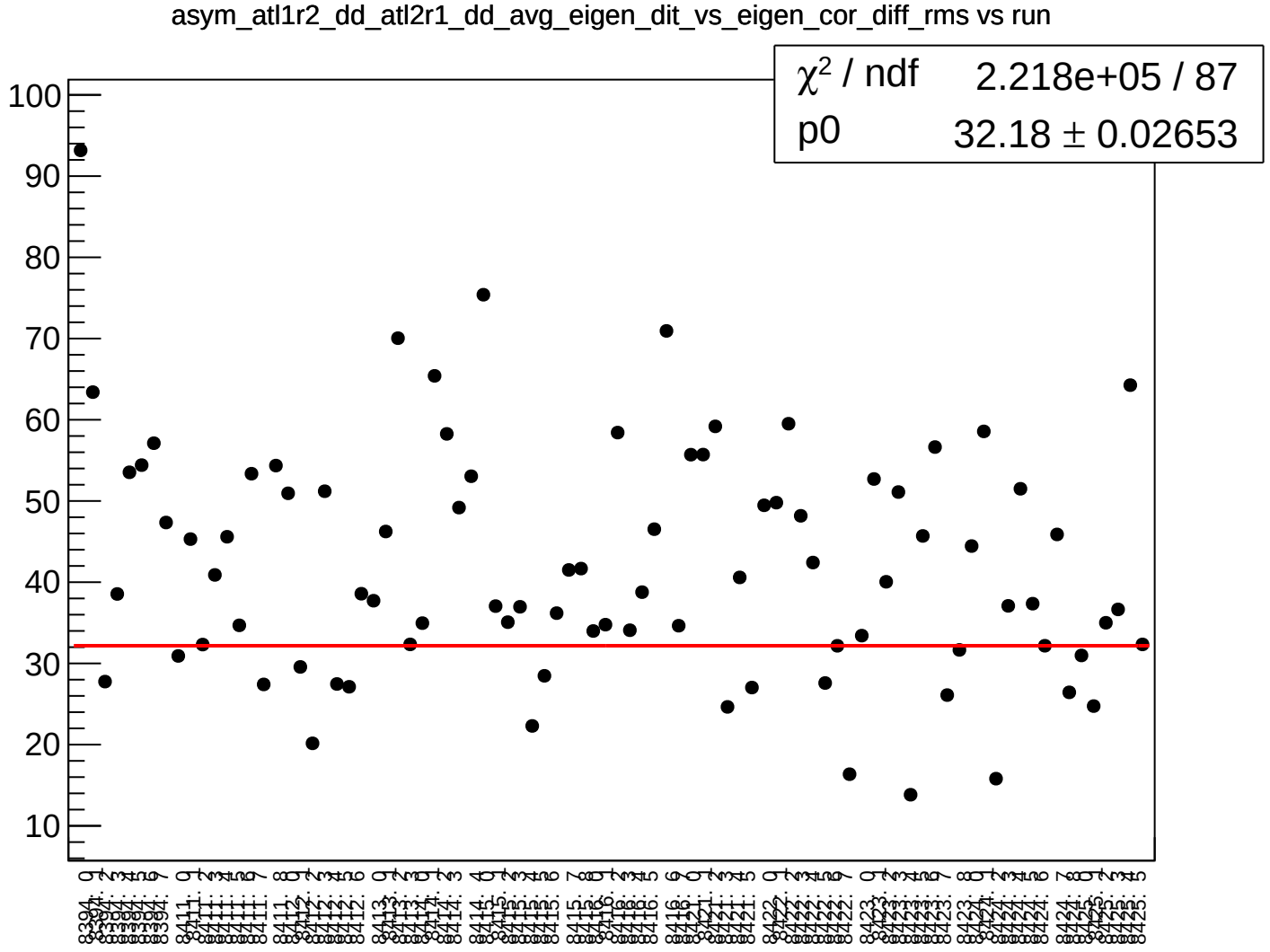

pull1D
Entries 88
Mean 0.1091
Std Dev 0.8676

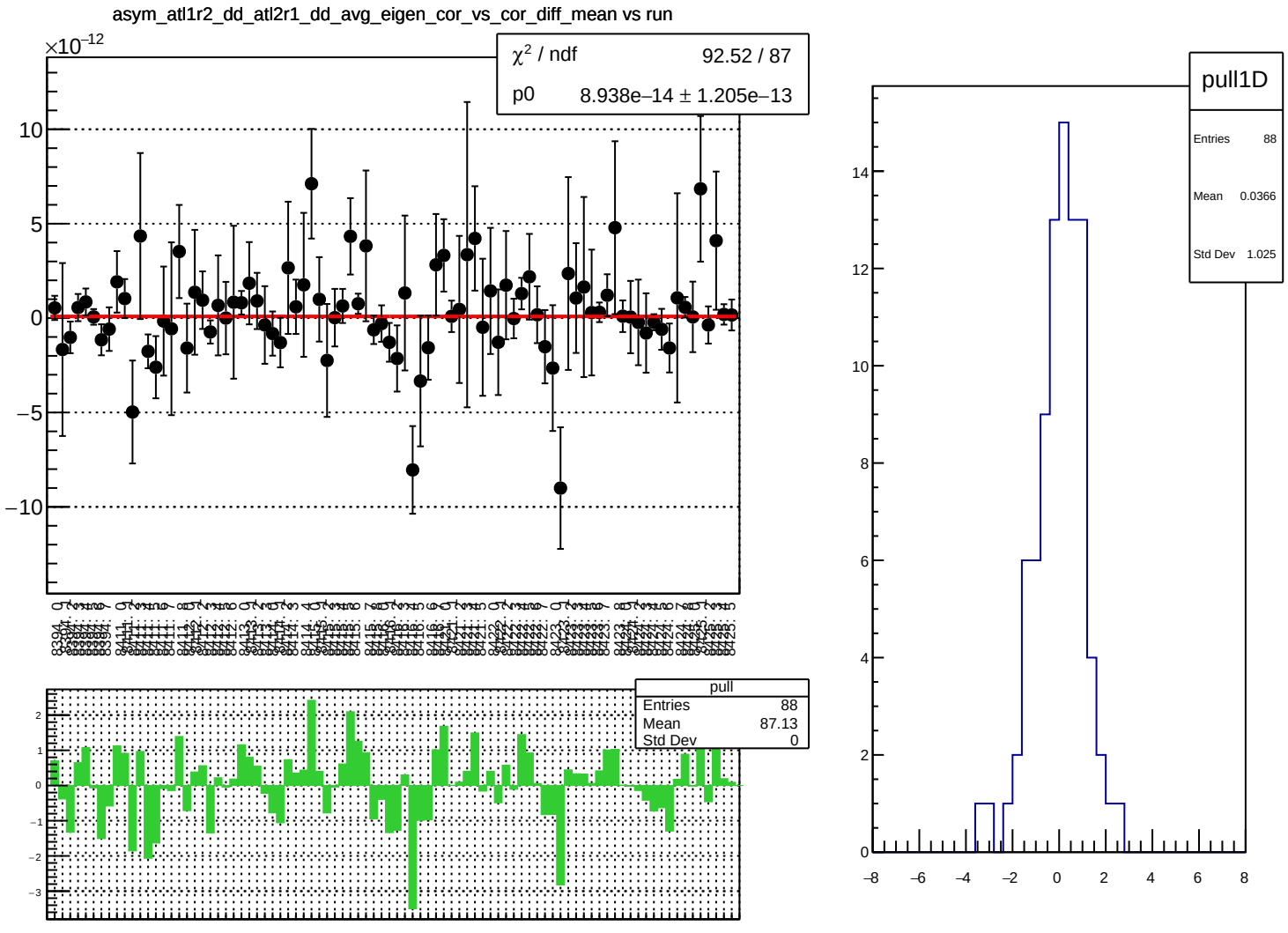

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.896e+05 / 87
p0 0.00388 ± 3.537e–06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

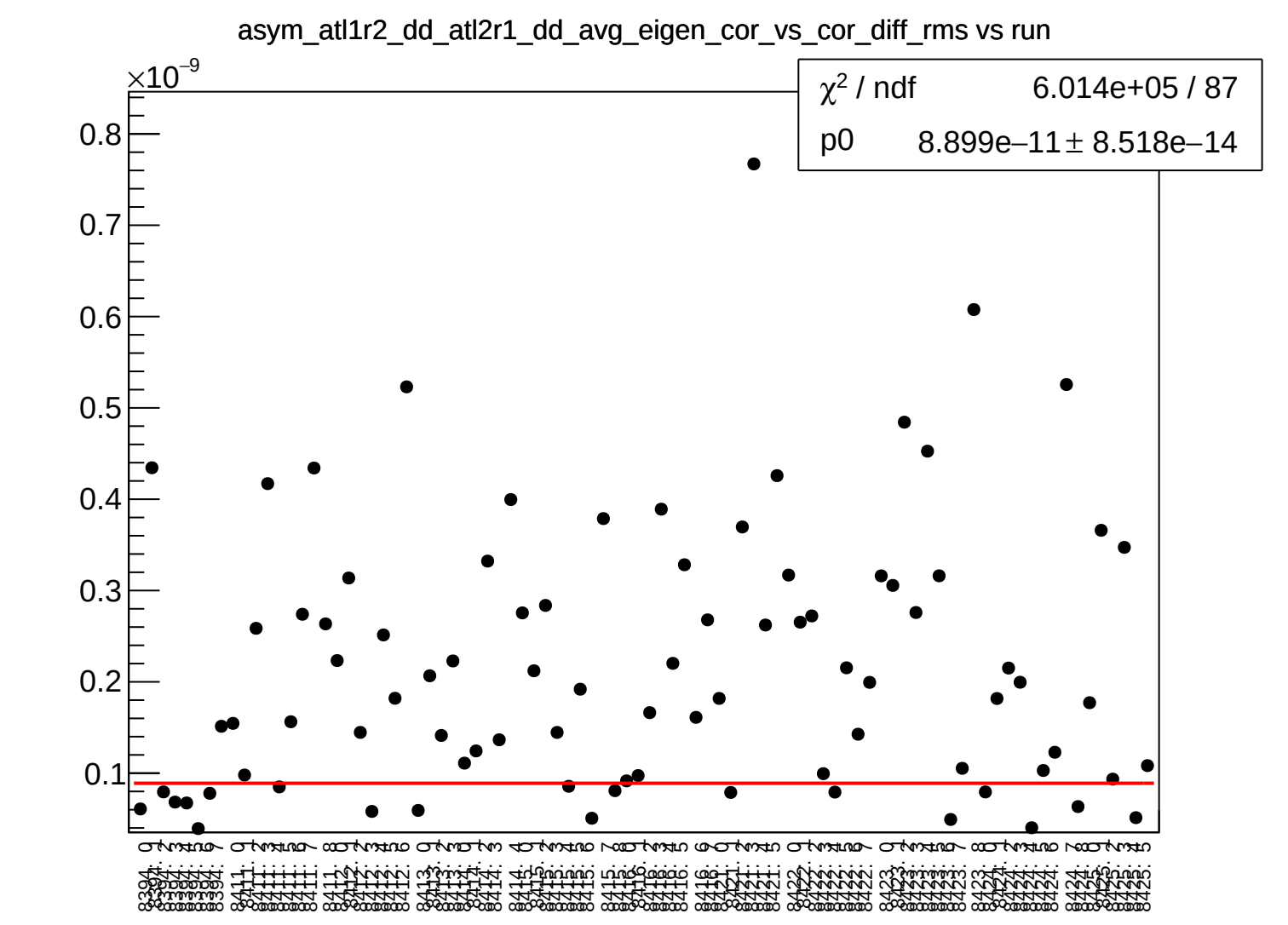

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.25 / 87
p0 −0.05963 ± 0.03752
pull
Entries 88
Mean 3.95
Std Dev 0
pull1D
Entries 88
Mean 0.09234
Std Dev 1.025

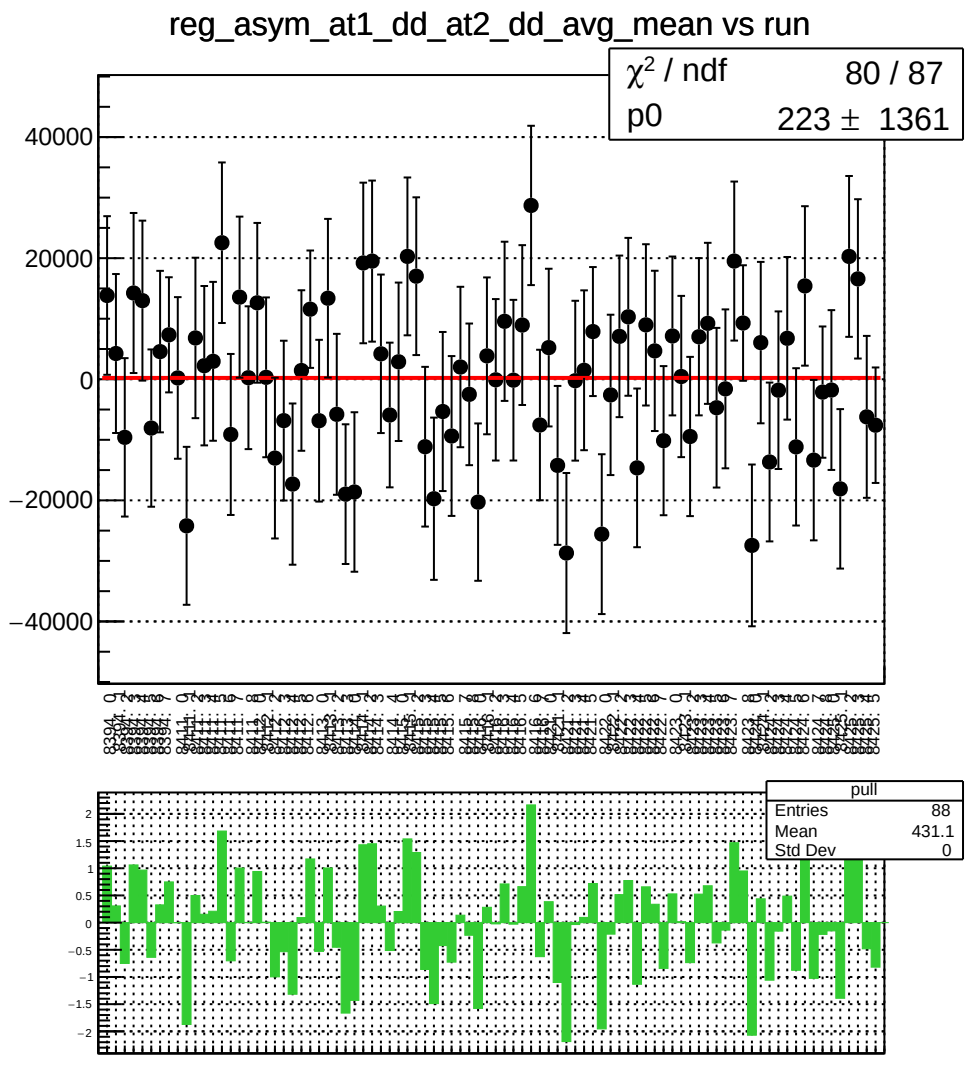

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.218e+05 / 87
p0 32.18 ± 0.02653
100
90
80
70
60
50
40
30
20
10

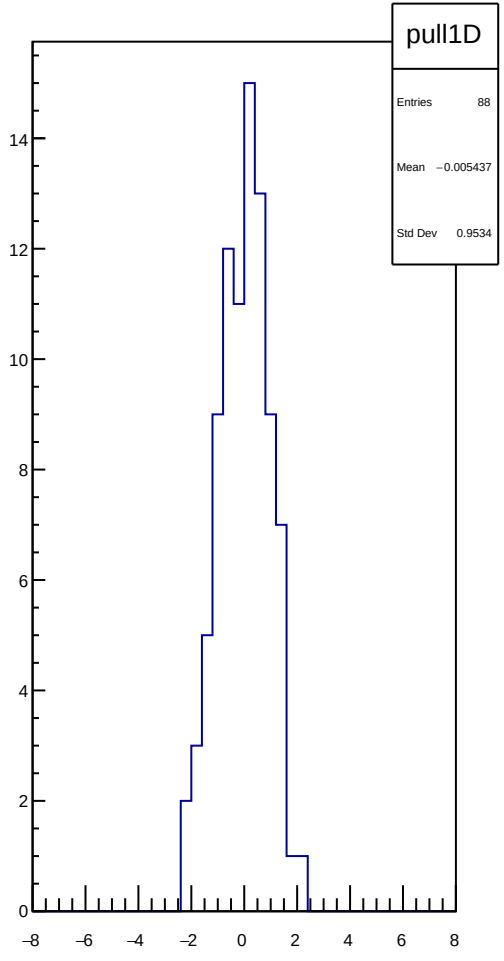

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.25 / 87
p0 −0.05963 ± 0.03752
pull
Entries 88
Mean 3.95
Std Dev 0
pull1D
Entries 88
Mean 0.09234
Std Dev 1.025

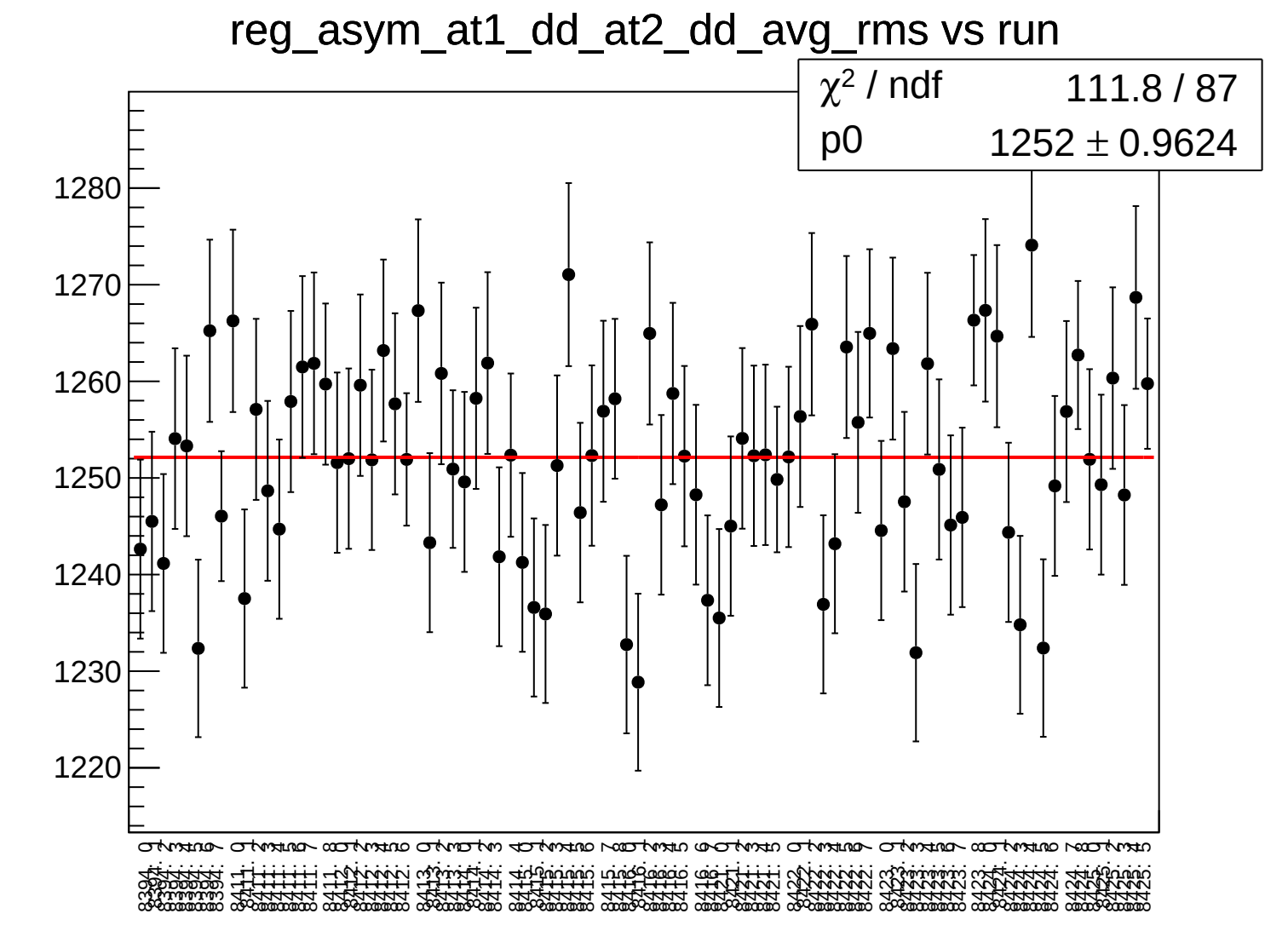

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.218e+05 / 87
p0 32.18 ± 0.02653
100
90
80
70
60
50
40
30
20
10

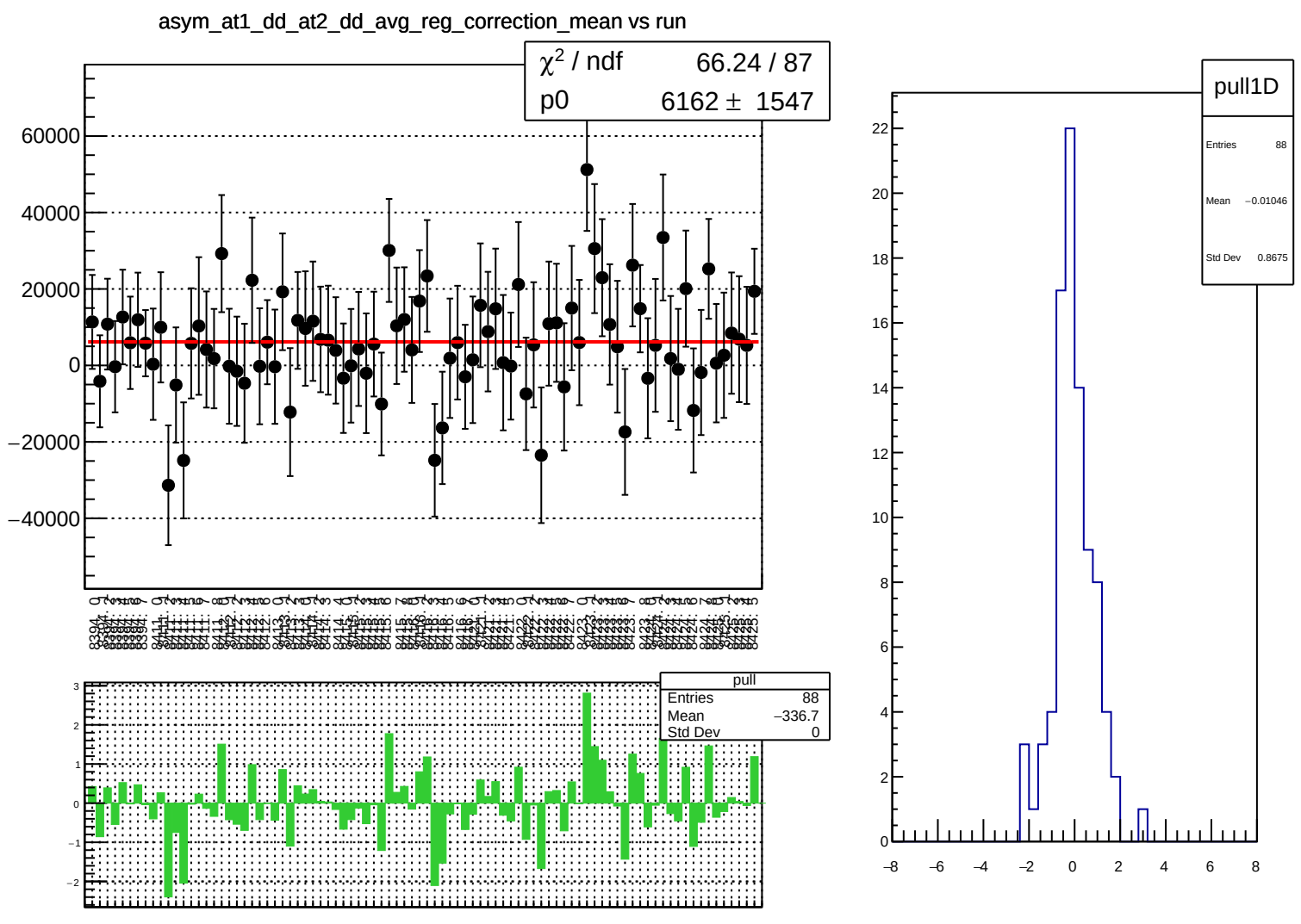

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.52 / 87
p0 8.938e−14 ± 1.205e−13
10
5
0
−5
−10
pull
Entries 88
Mean 87.13
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.0366
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

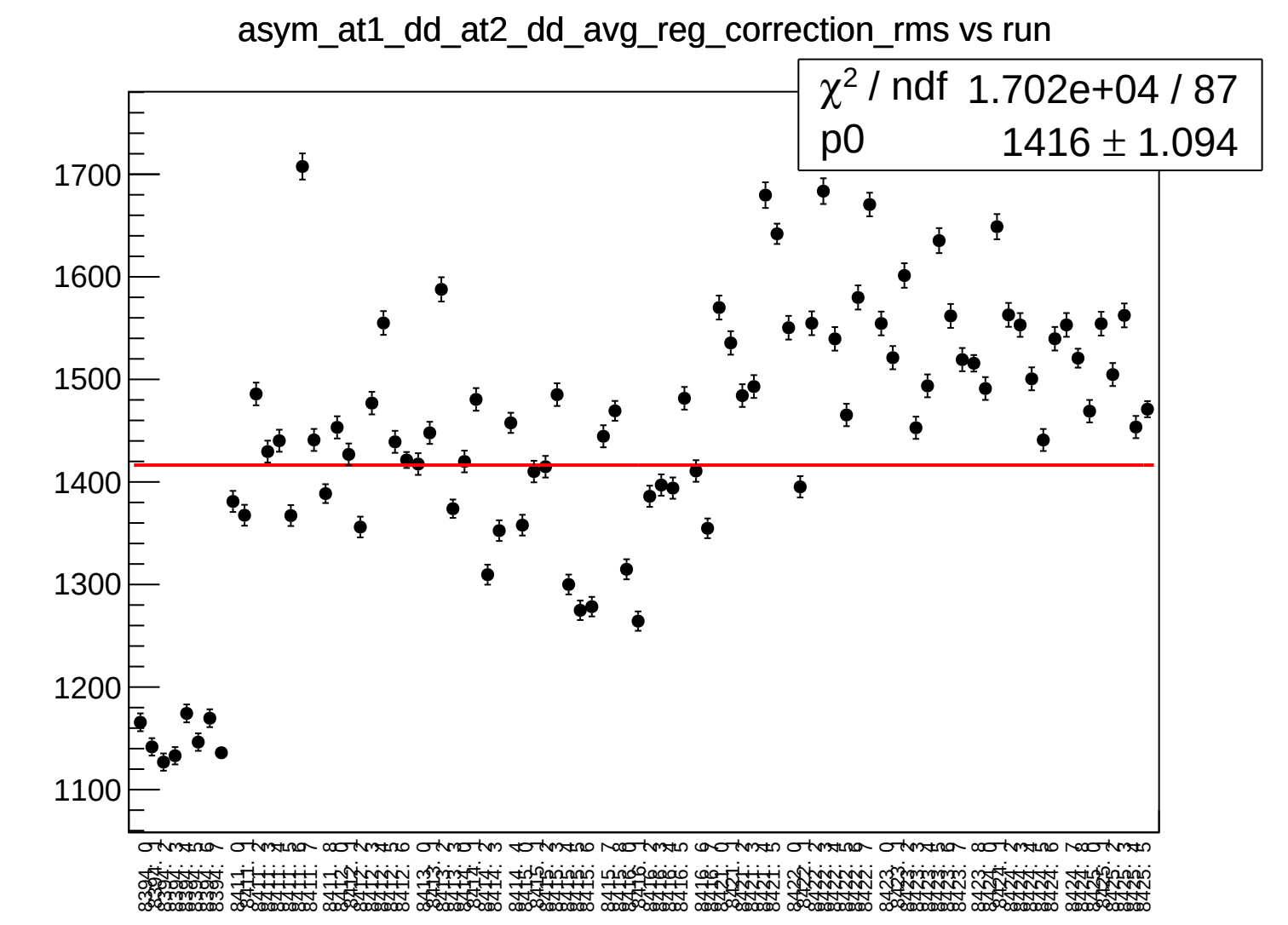

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.014e+05 / 87
p0 8.899e−11 ± 8.518e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

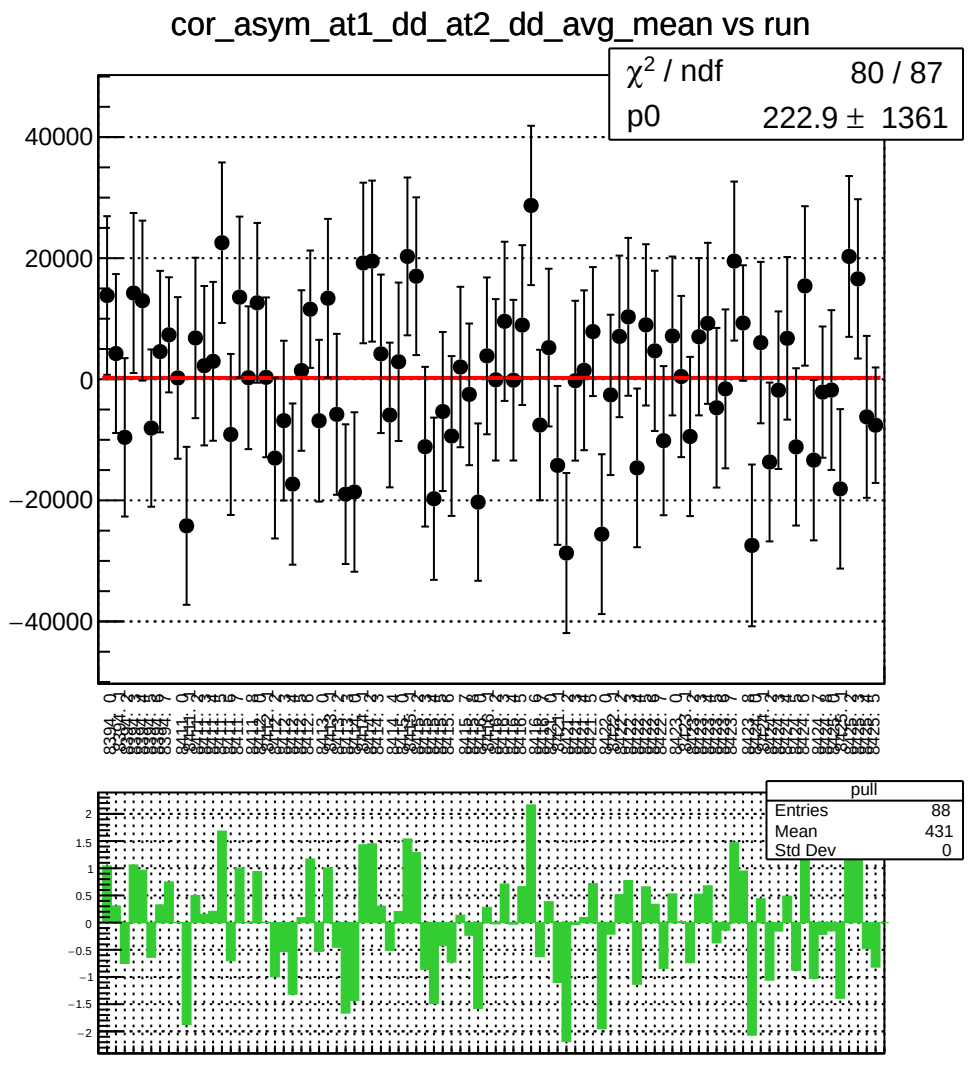

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 80 / 87
p0 223 ± 1361
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 431.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

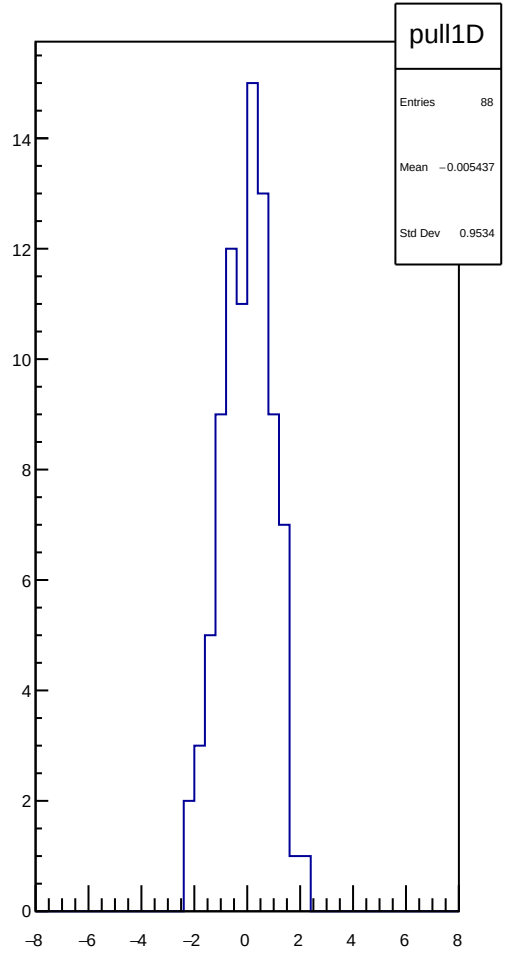

pull1D
Entries 88
Mean −0.005437
Std Dev 0.9534
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

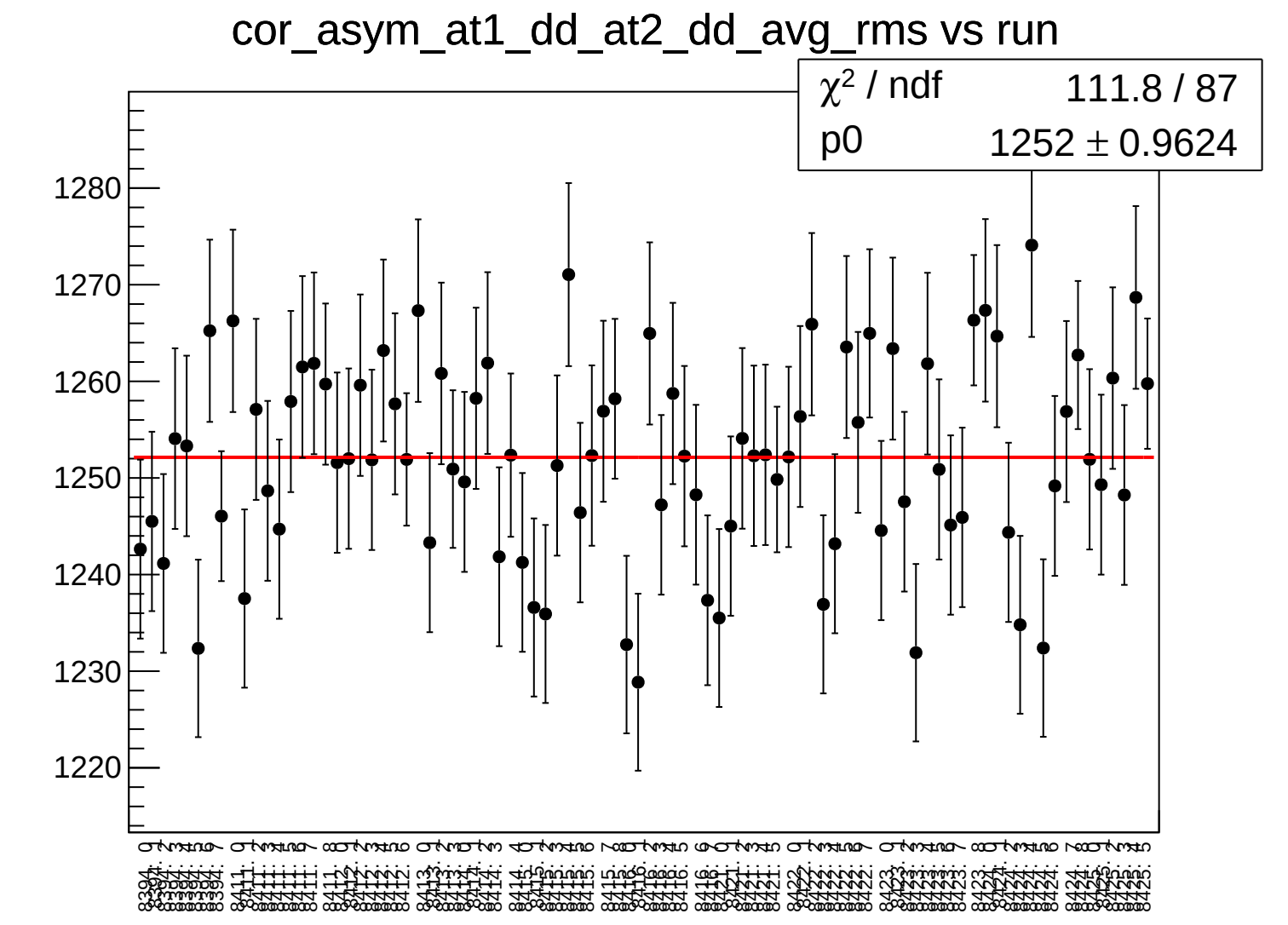

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 111.8 / 87
p0 1252 ± 0.9624
1280
1270
1260
1250
1240
1230
1220

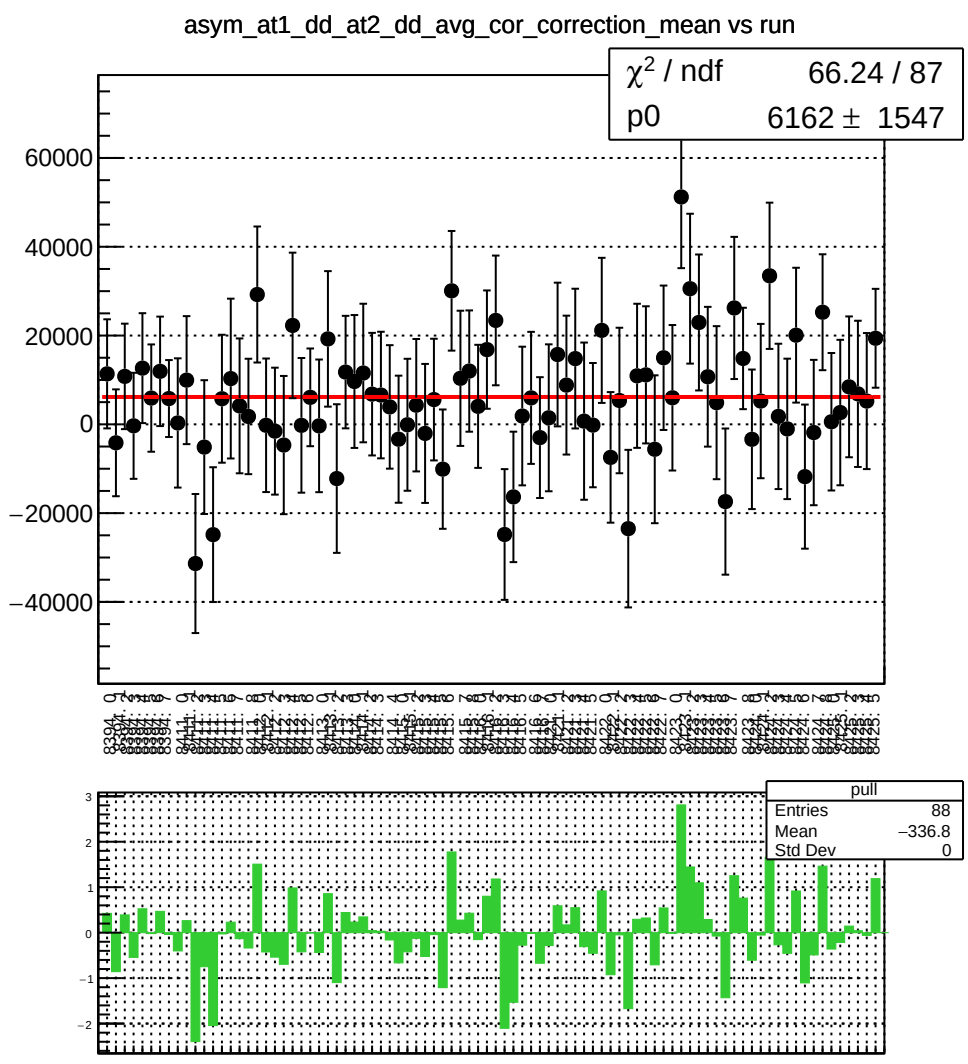

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 66.24 / 87
p0 6162 ± 1547
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −336.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01046
Std Dev 0.8675
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

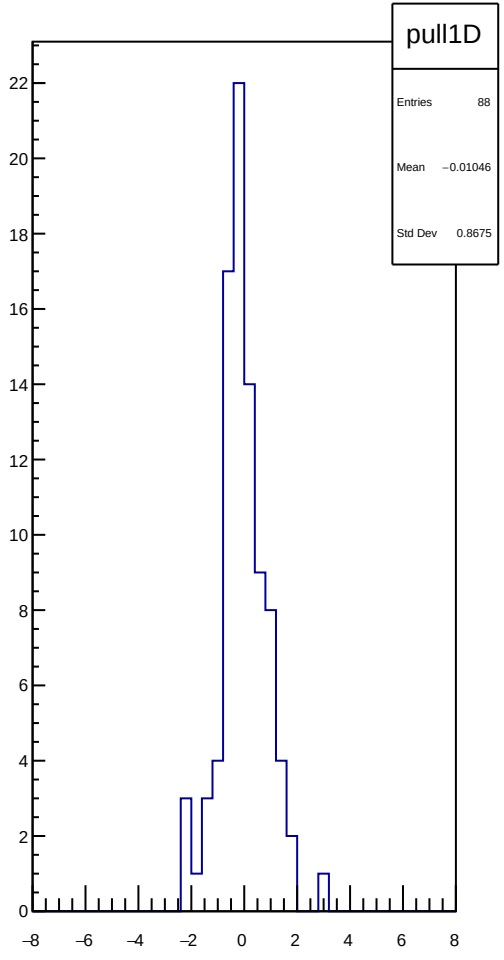

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 1.702e+04 / 87
p0 1416 ± 1.094
1700
1600
1500
1400
1300
1200
1100

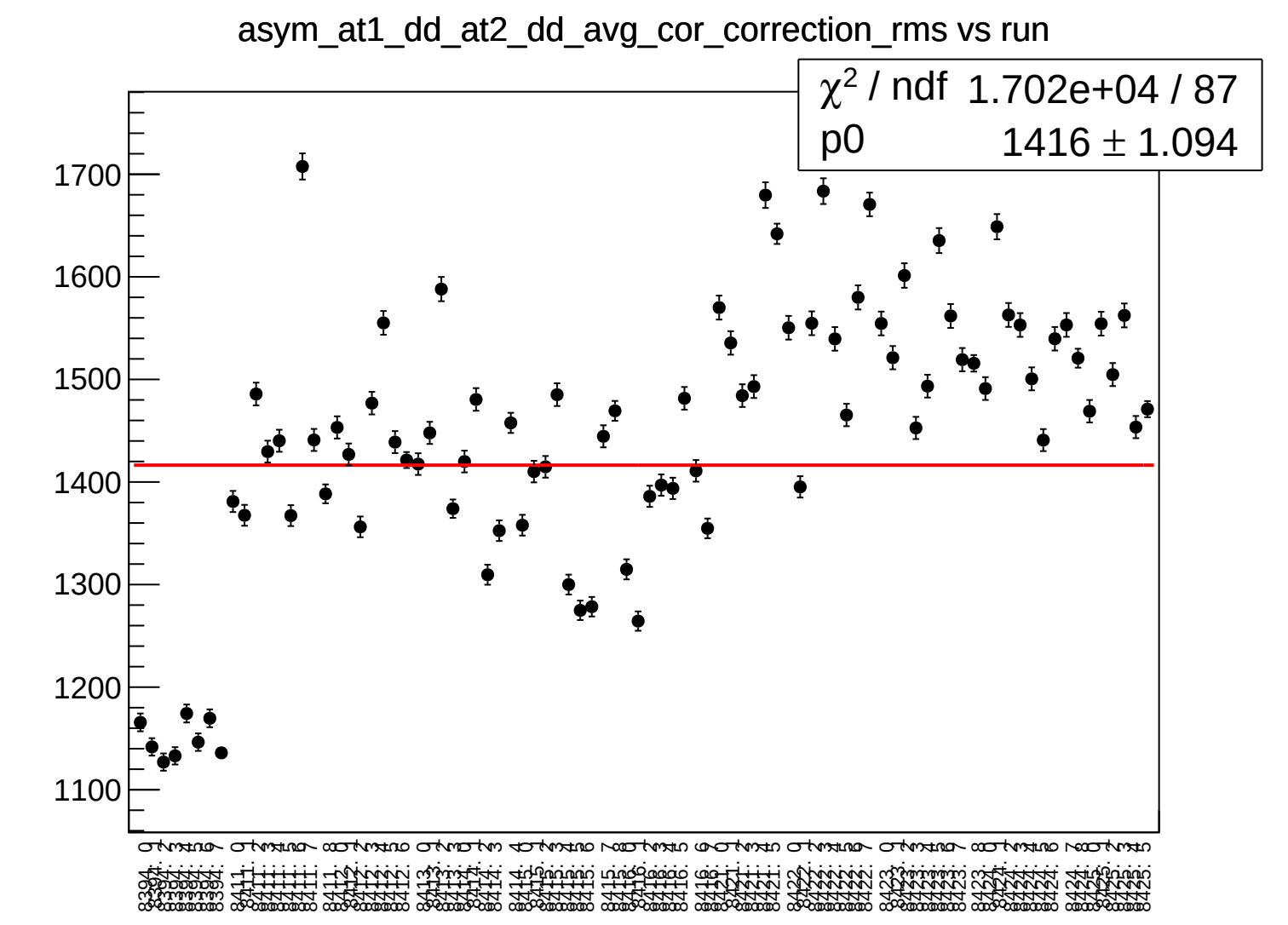

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 80 / 87
p0 222.9 ± 1361
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 431
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

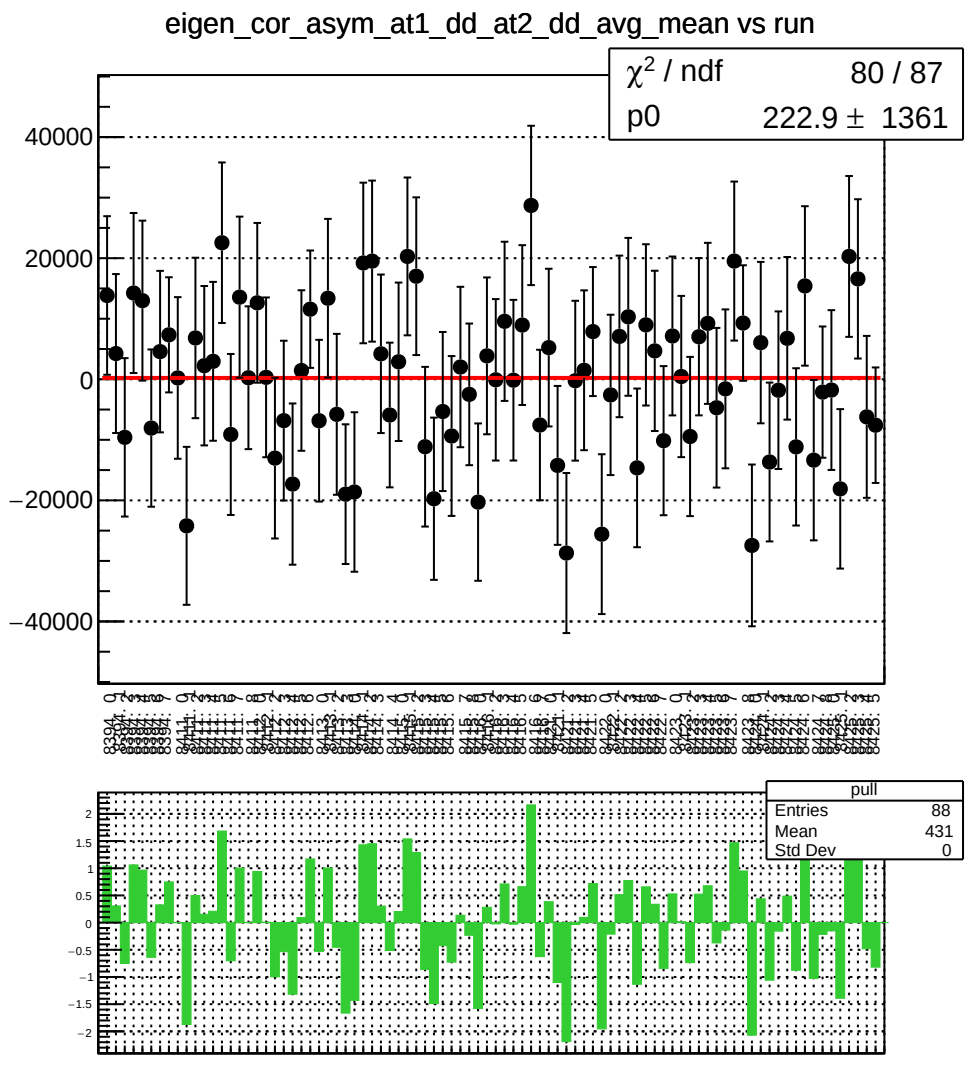

pull1D
Entries 88
Mean −0.005437
Std Dev 0.9534
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

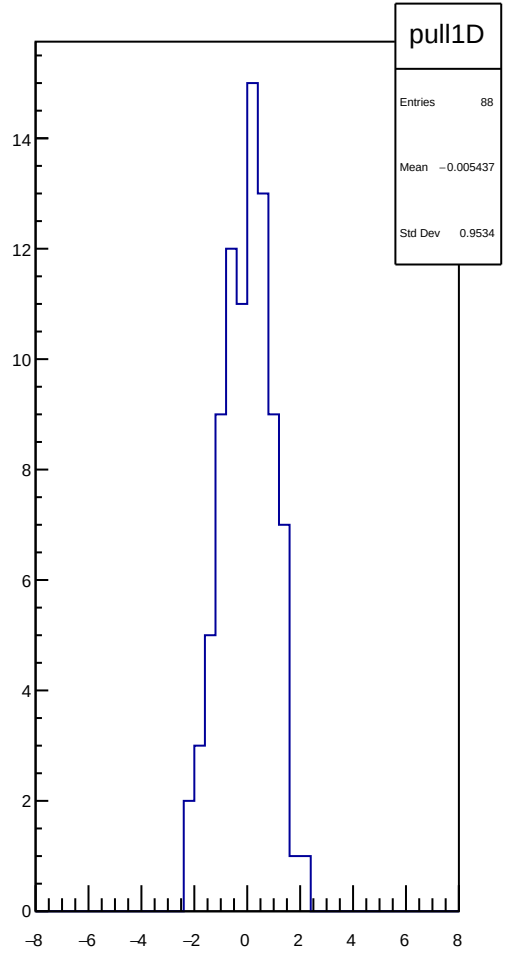

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 111.8 / 87
p0 1252 ± 0.9624
1280
1270
1260
1250
1240
1230
1220

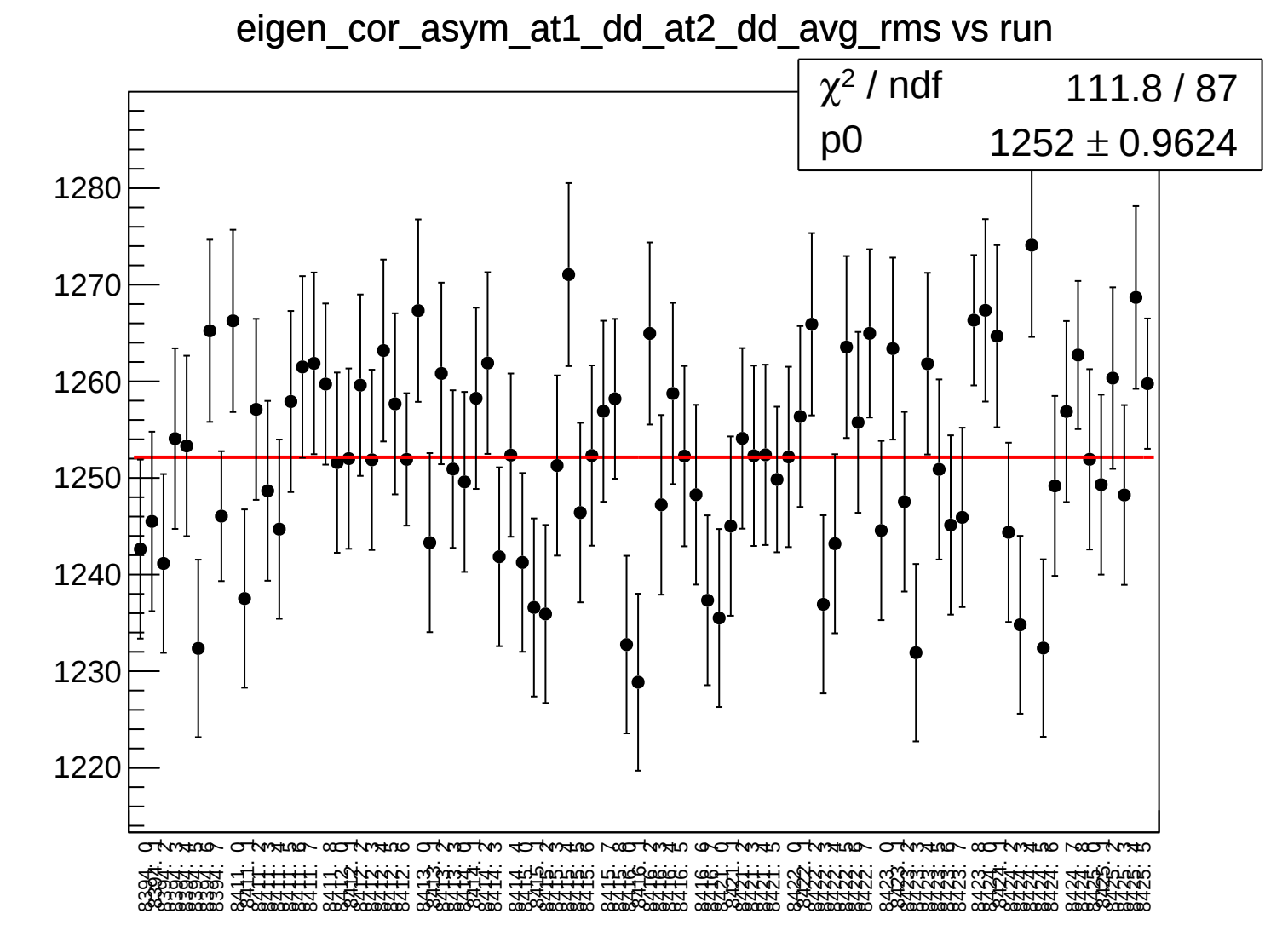

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 66.24 / 87
p0 6162 ± 1547
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −336.8
Std Dev 0
3
2
1
0
−1
−2

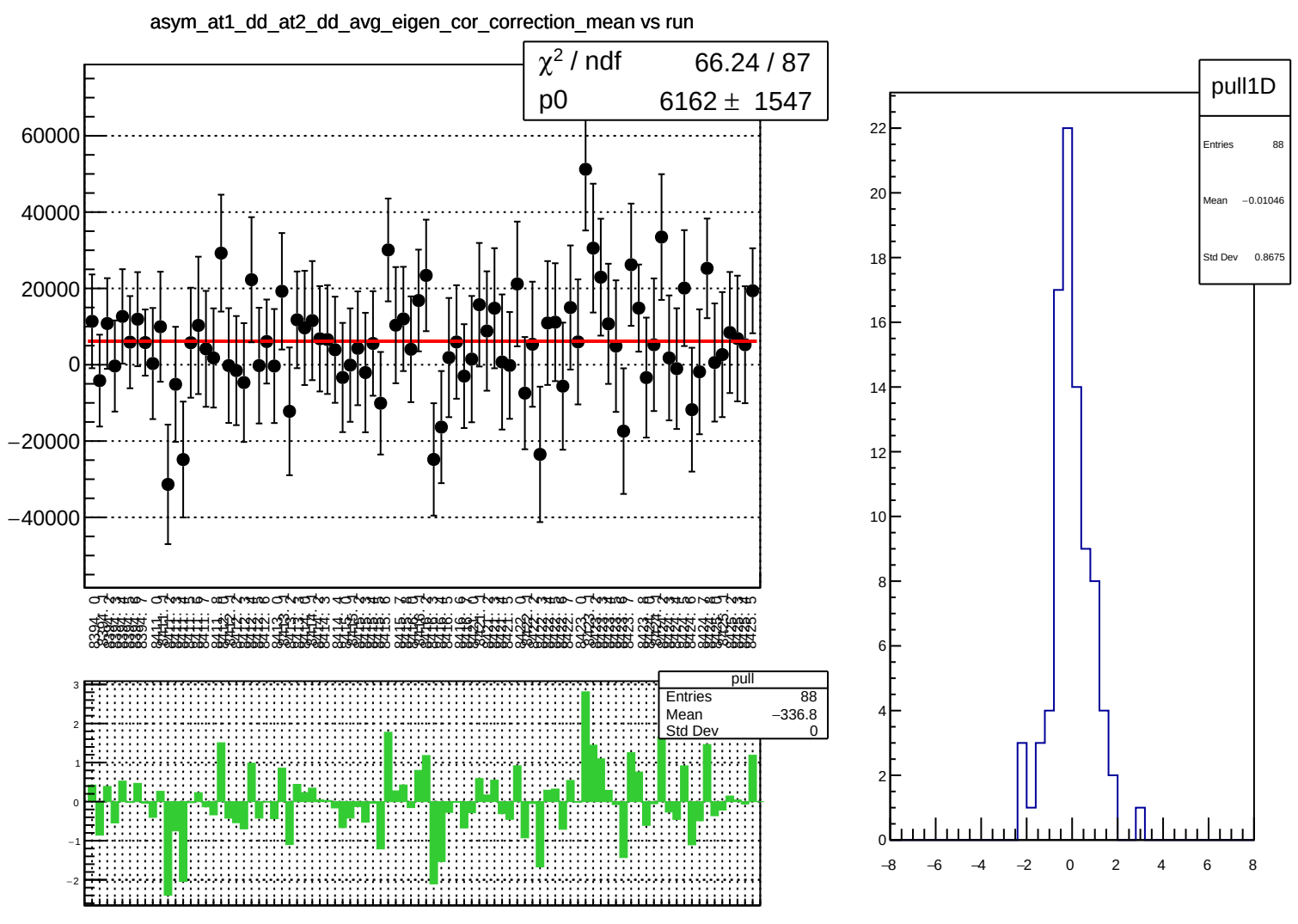

pull1D
Entries 88
Mean −0.01046
Std Dev 0.8675
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

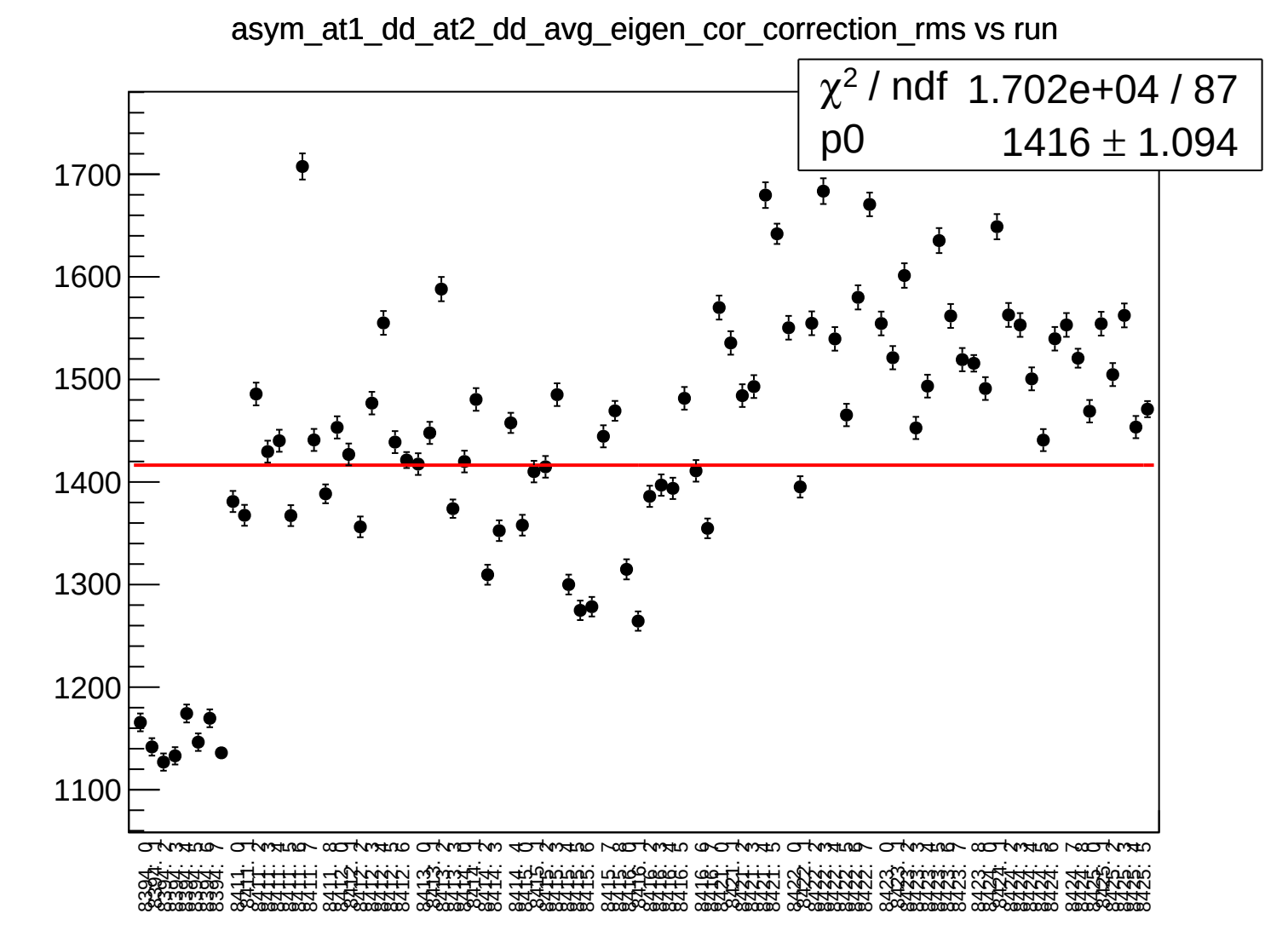

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 1.702e+04 / 87
p0 1416 ± 1.094
1700
1600
1500
1400
1300
1200
1100

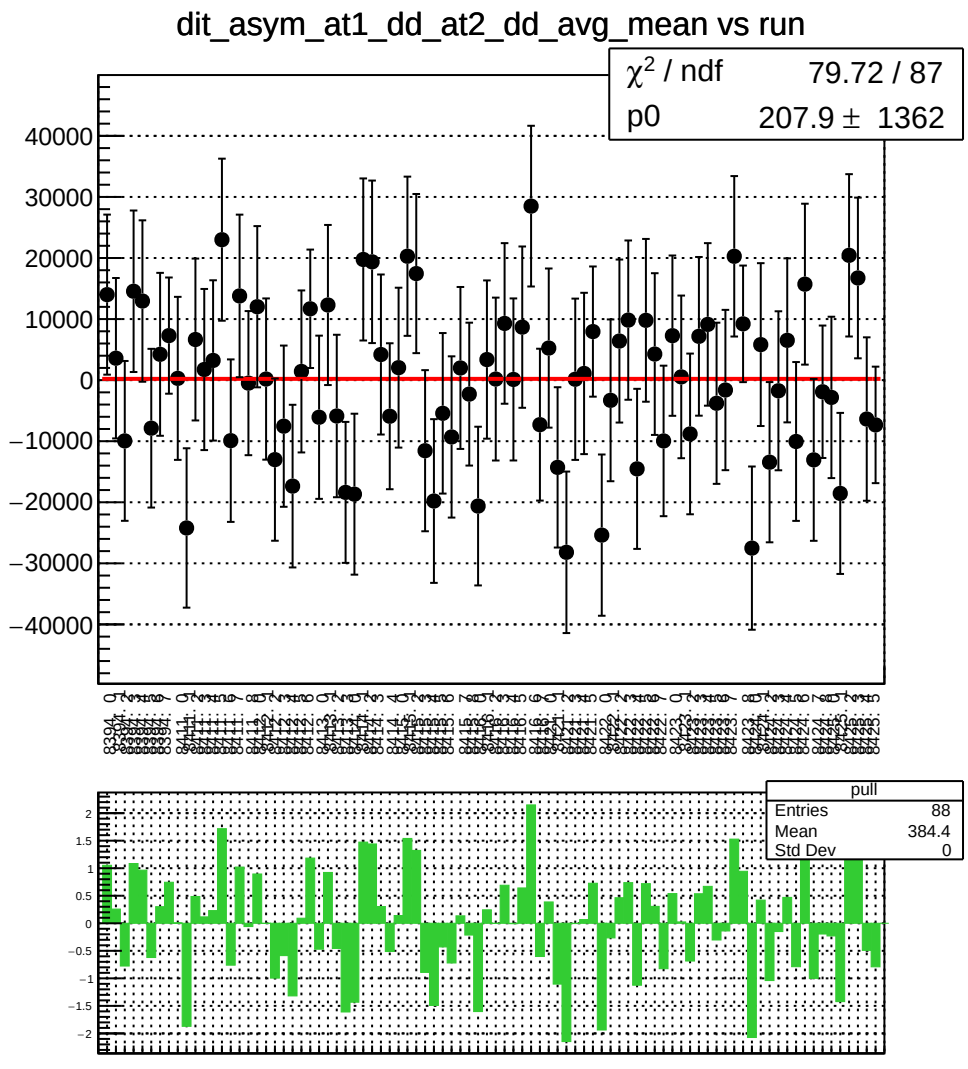

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 80 / 87
p0 222.9 ± 1361
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 431
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

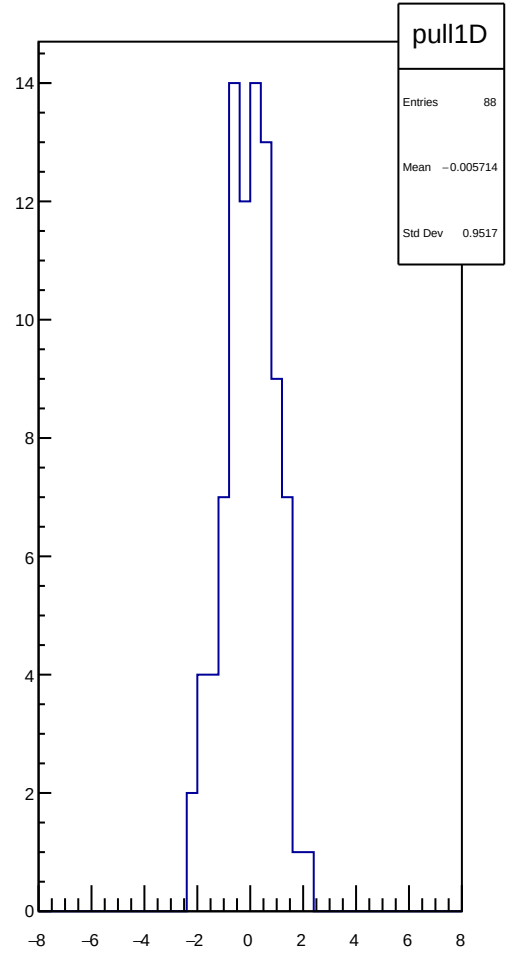

pull1D
Entries 88
Mean −0.005437
Std Dev 0.9534
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

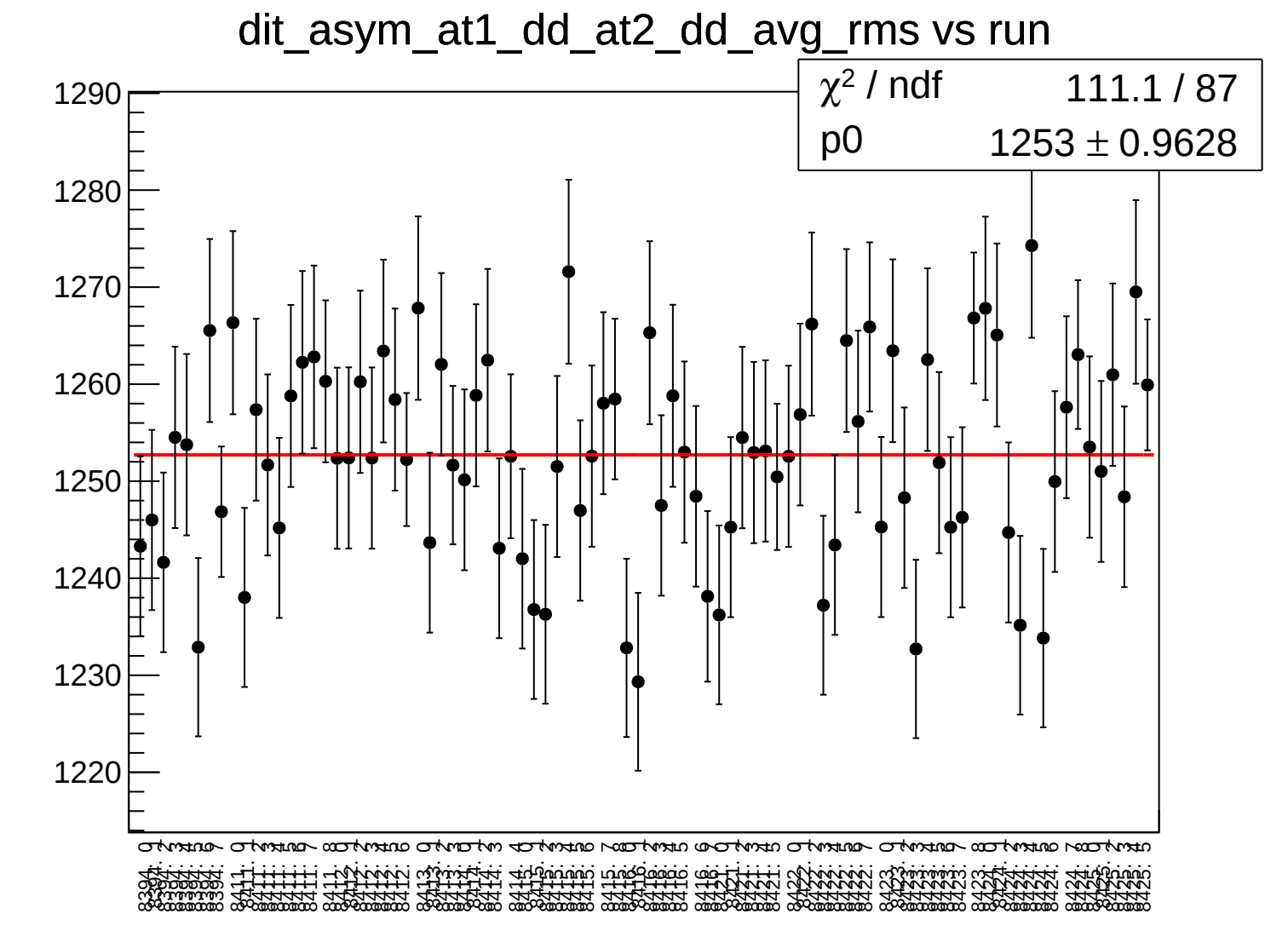

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 111.8 / 87
p0 1252 ± 0.9624
1280
1270
1260
1250
1240
1230
1220

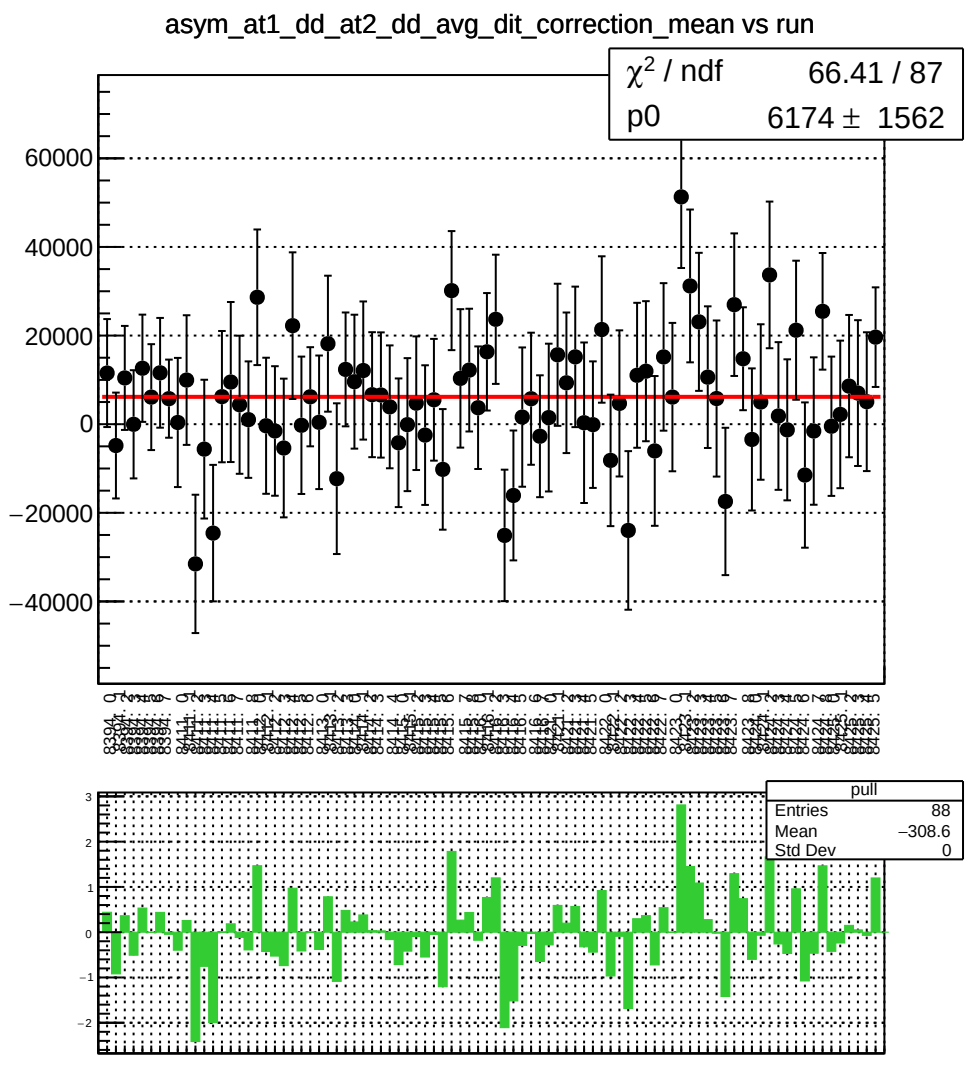

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 66.24 / 87
p0 6162 ± 1547
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −336.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01046
Std Dev 0.8675
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

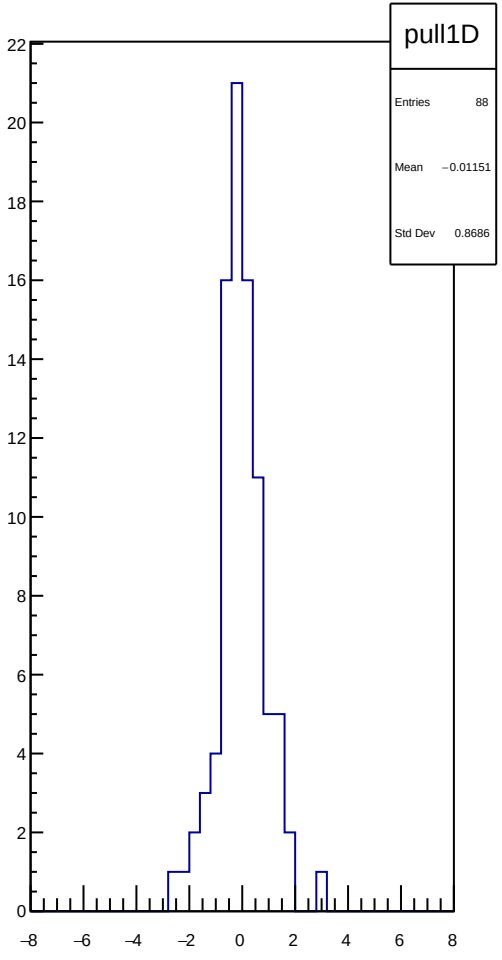

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.702e+04 / 87
p0 1416 ± 1.094
1700
1600
1500
1400
1300
1200
1100

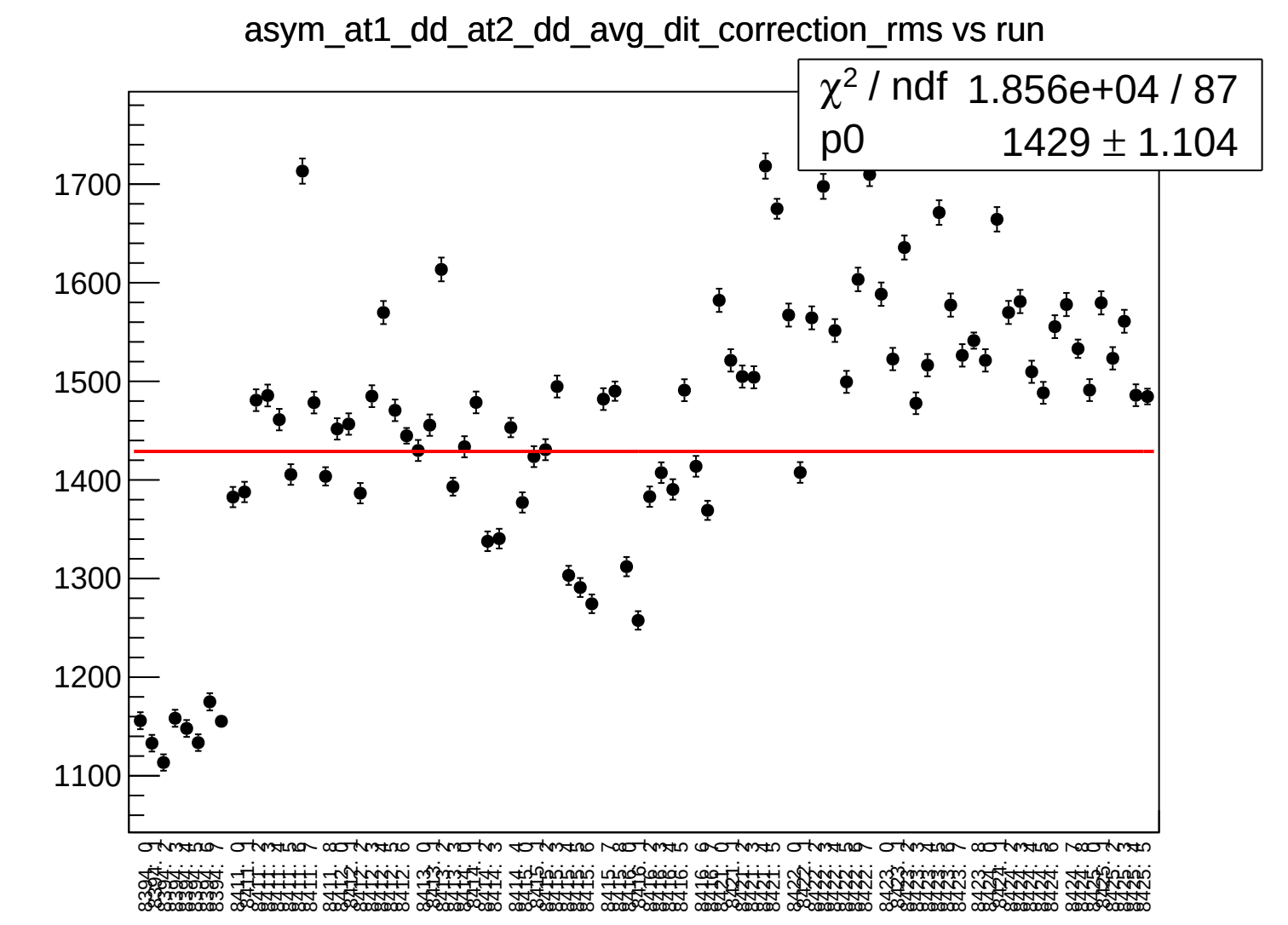

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 79.72 / 87
p0 207.9 ± 1362
pull
Entries 88
Mean 384.4
Std Dev 0

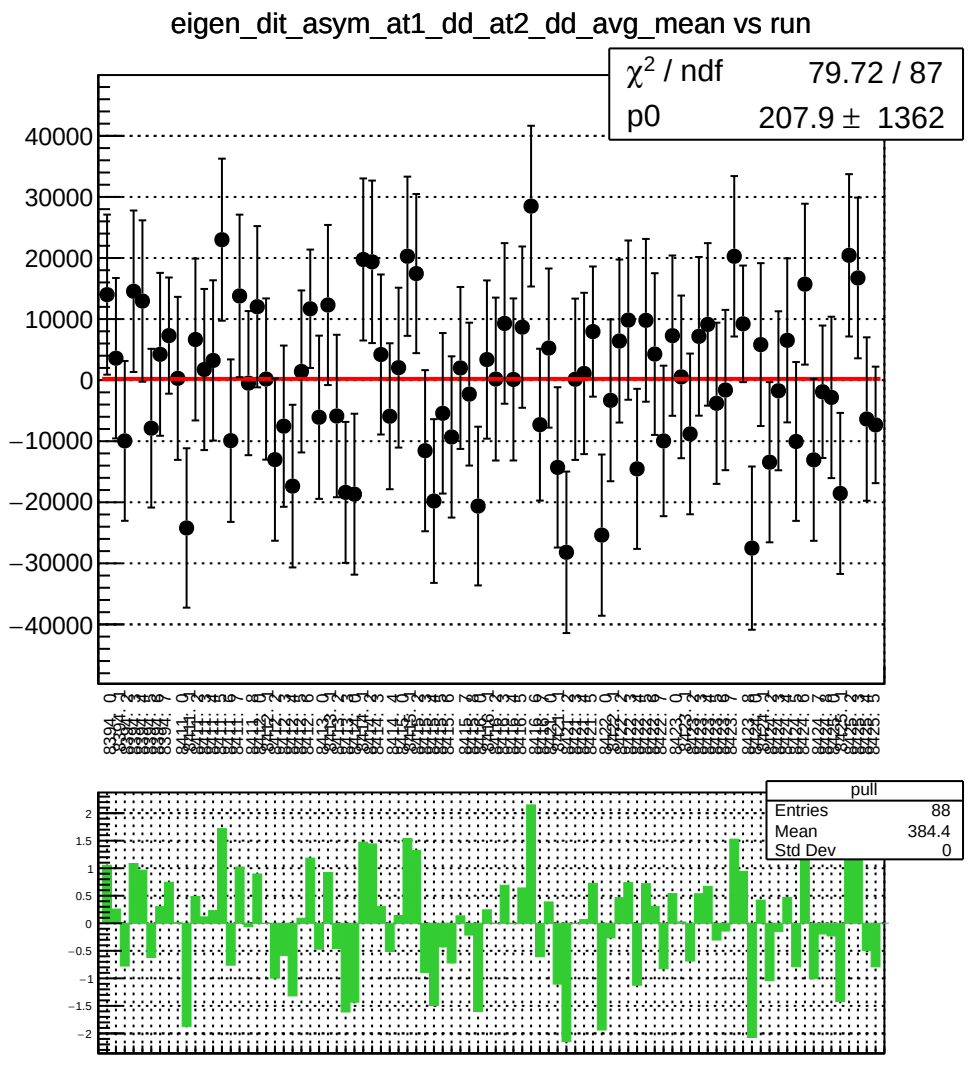

pull1D
Entries 88
Mean −0.005714
Std Dev 0.9517

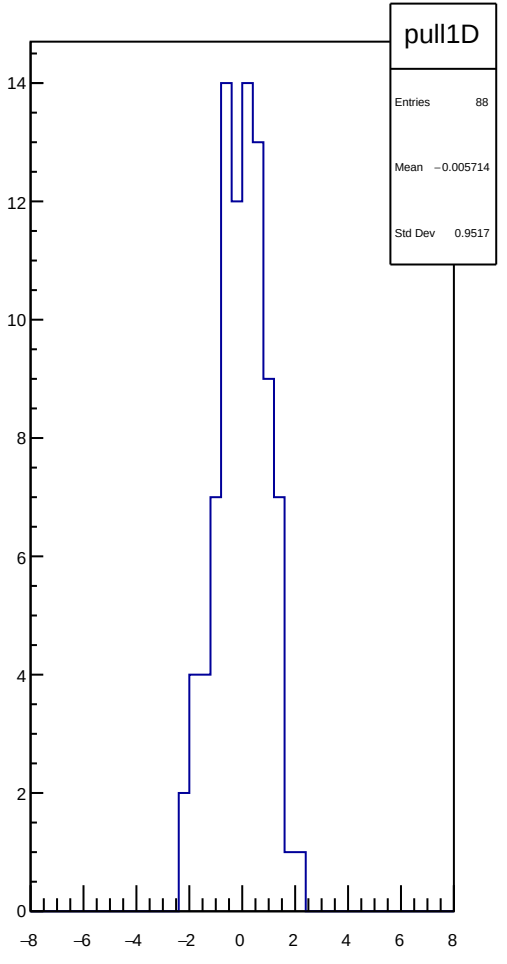

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 111.1 / 87
p0 1253 ± 0.9628
1290
1280
1270
1260
1250
1240
1230
1220

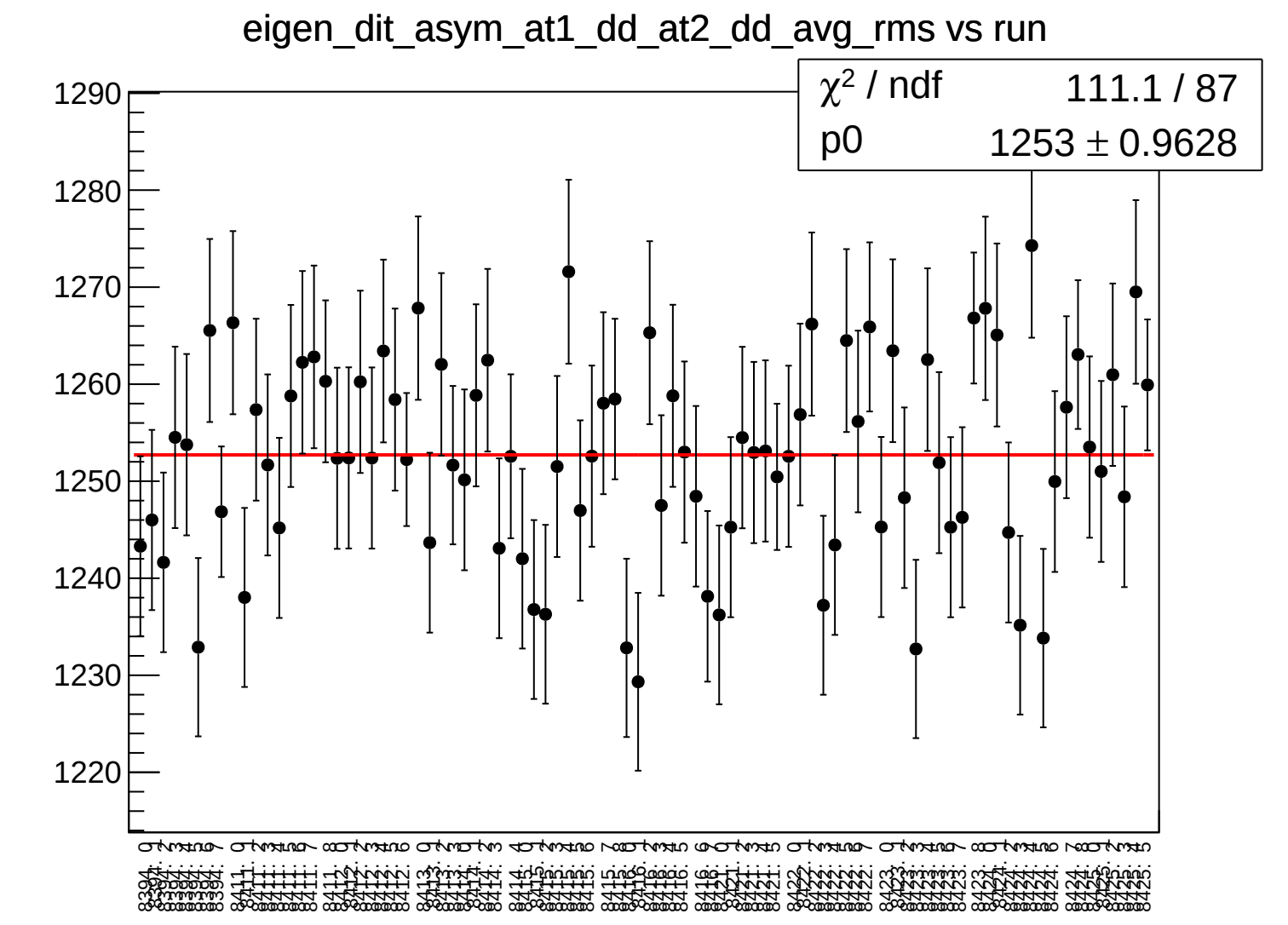

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 66.41 / 87
p0 6174 ± 1562
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −308.6
Std Dev 0
3
2
1
0
−1
−2

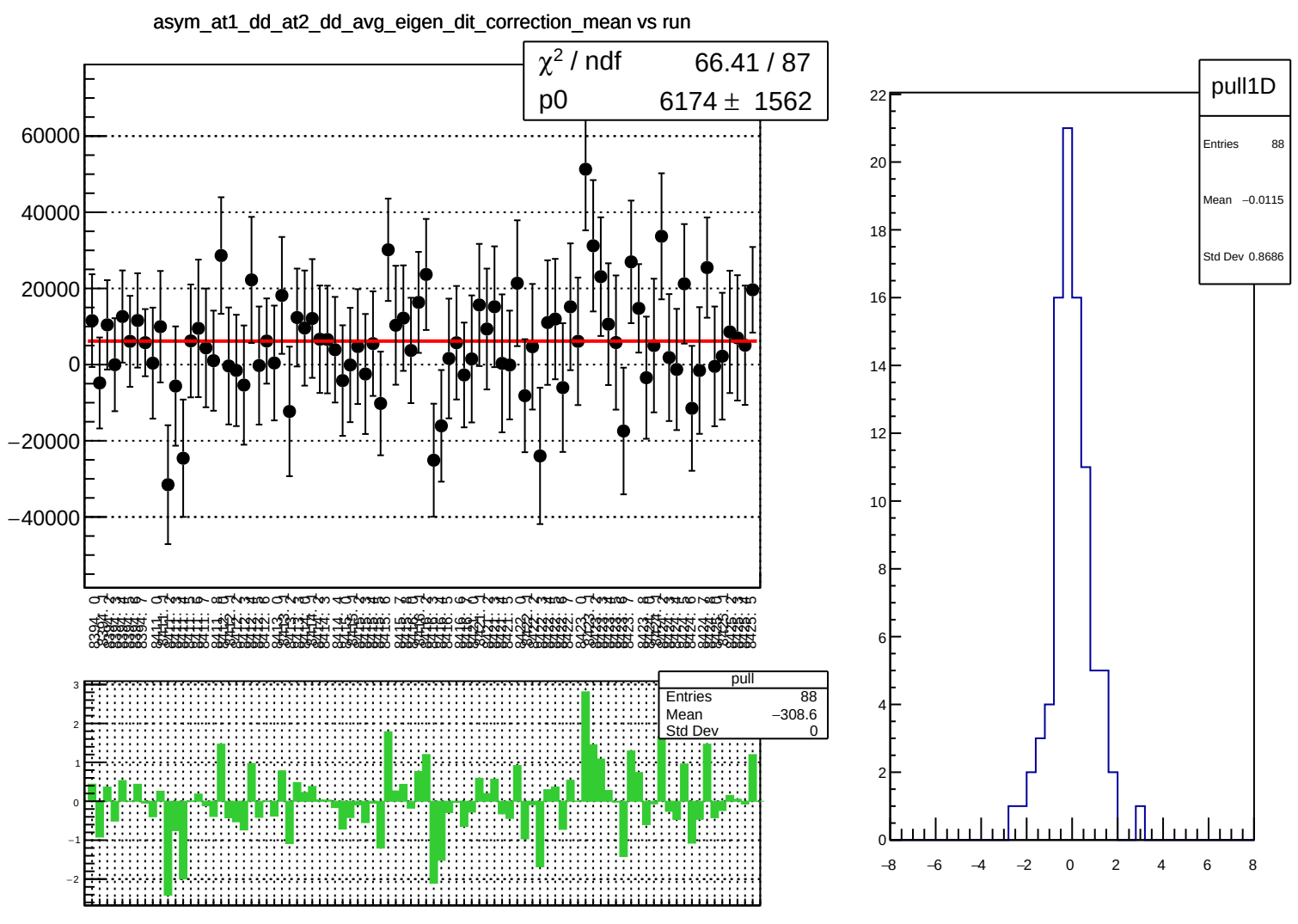

pull1D
Entries 88
Mean −0.01151
Std Dev 0.8686
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

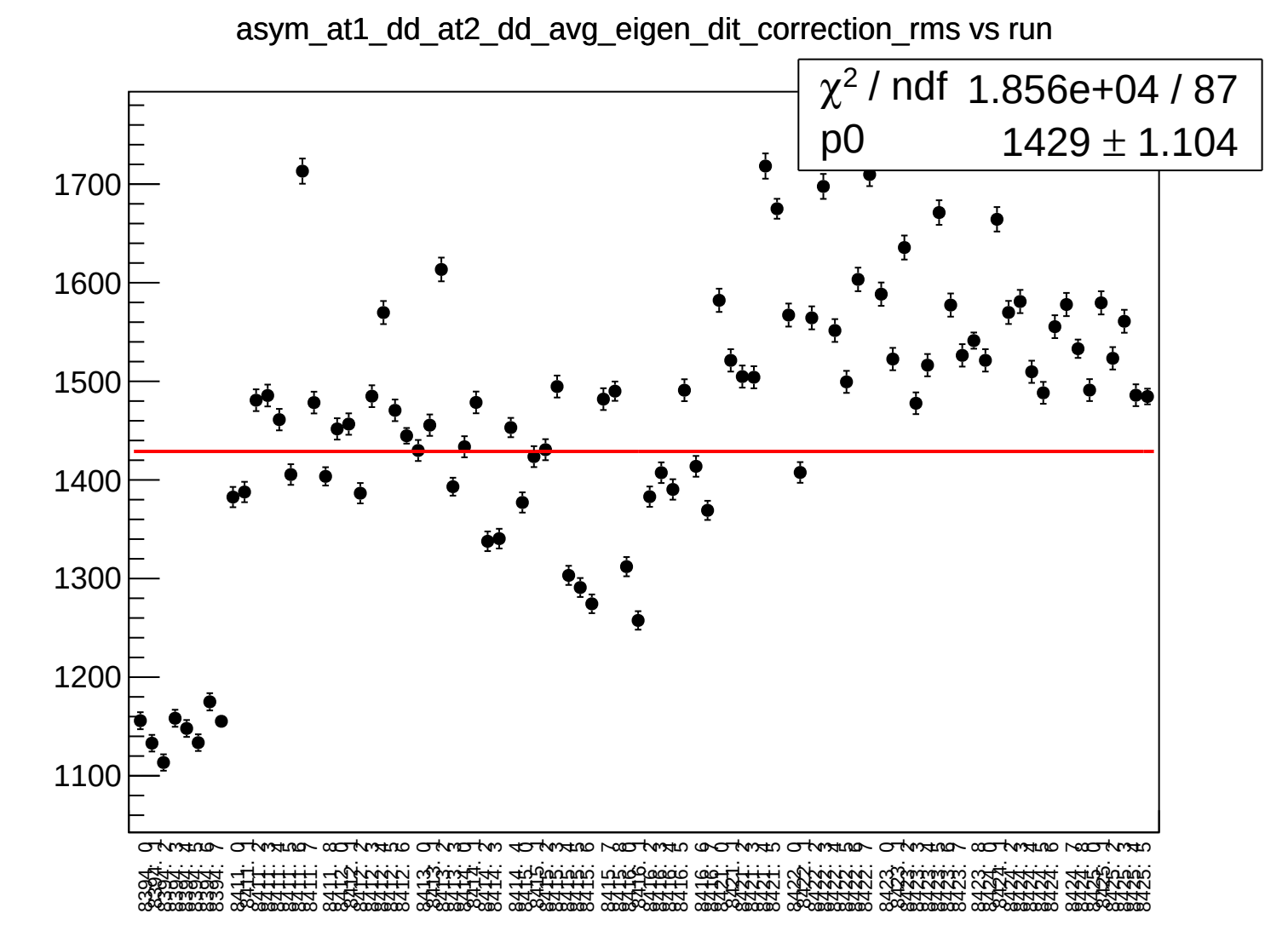

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 1.856e+04 / 87
p0 1429 ± 1.104
1700
1600
1500
1400
1300
1200
1100

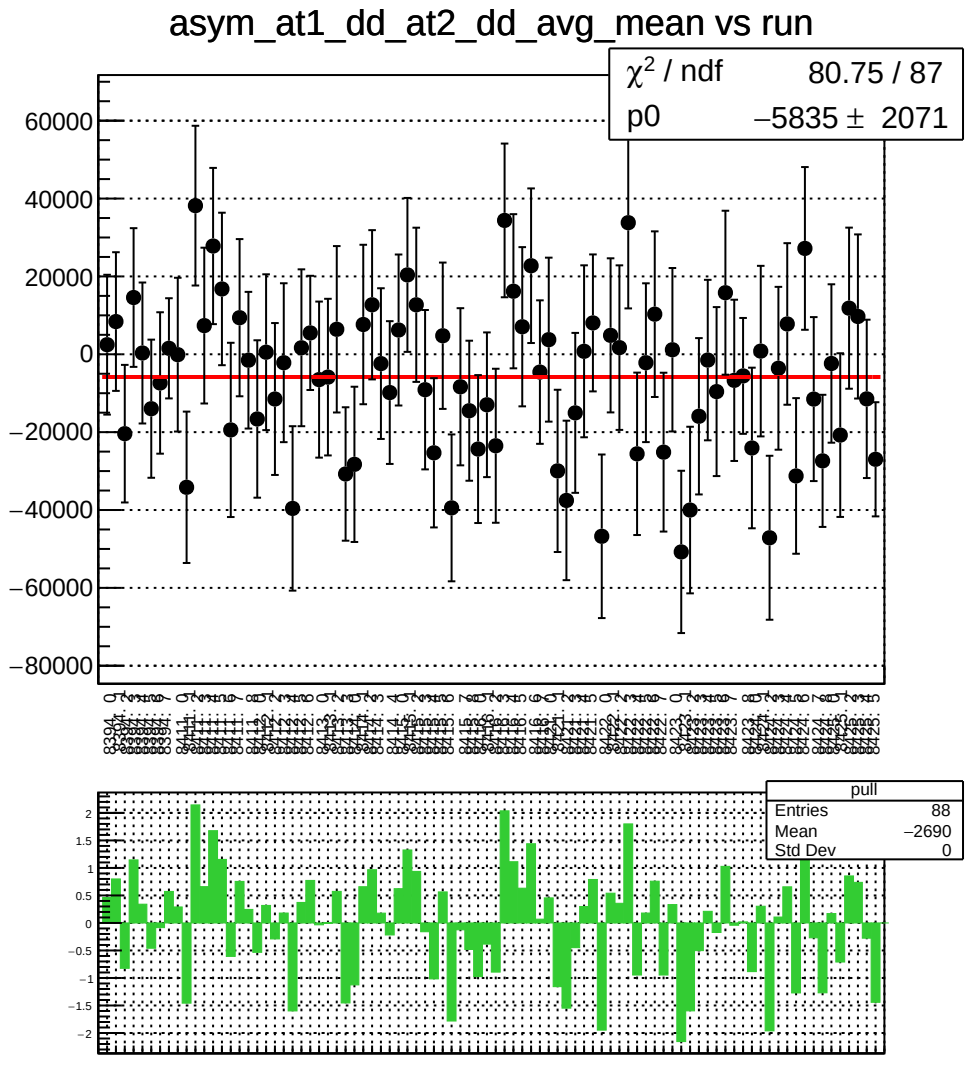

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 79.72 / 87
p0 207.9 ± 1362
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 384.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

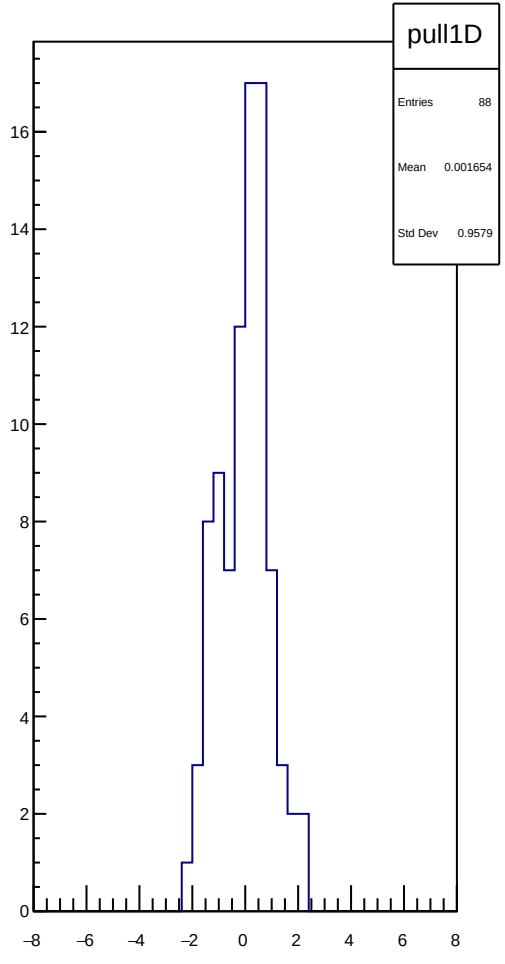

pull1D
Entries 88
Mean −0.005714
Std Dev 0.9517
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

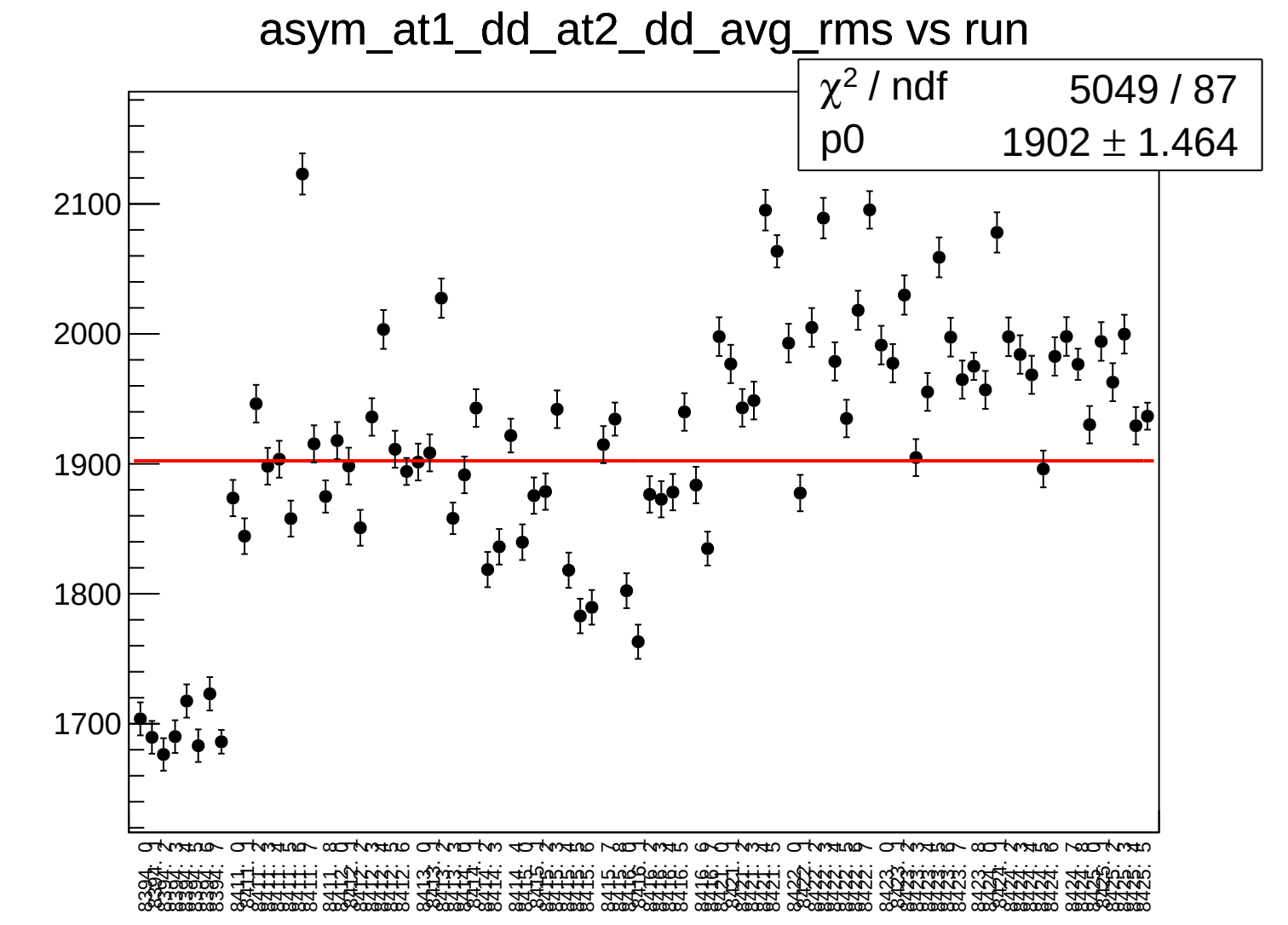

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 111.1 / 87
p0 1253 ± 0.9628
1290
1280
1270
1260
1250
1240
1230
1220

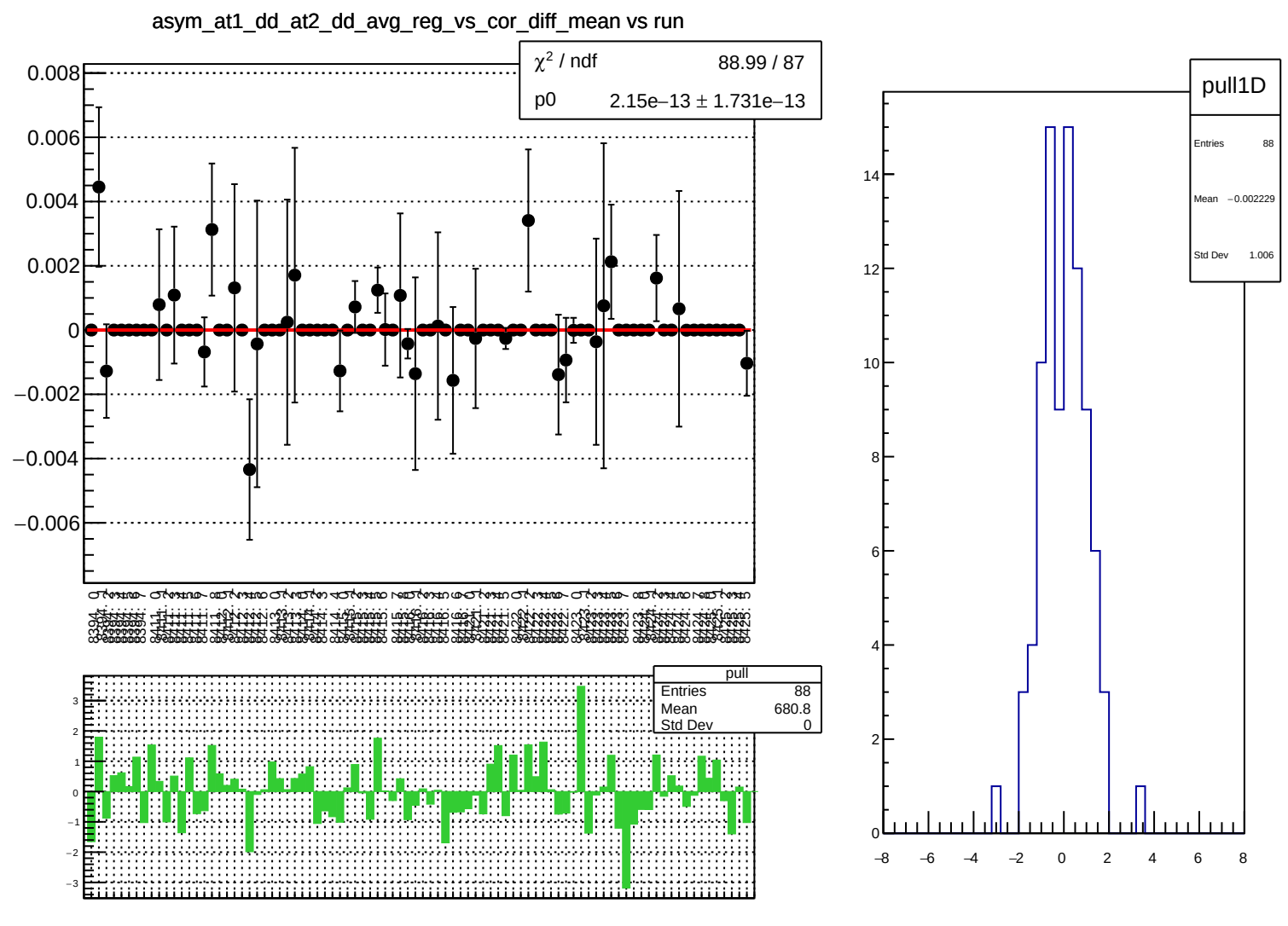

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 66.41 / 87
p0 6174 ± 1562
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −308.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.0115
Std Dev 0.8686
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

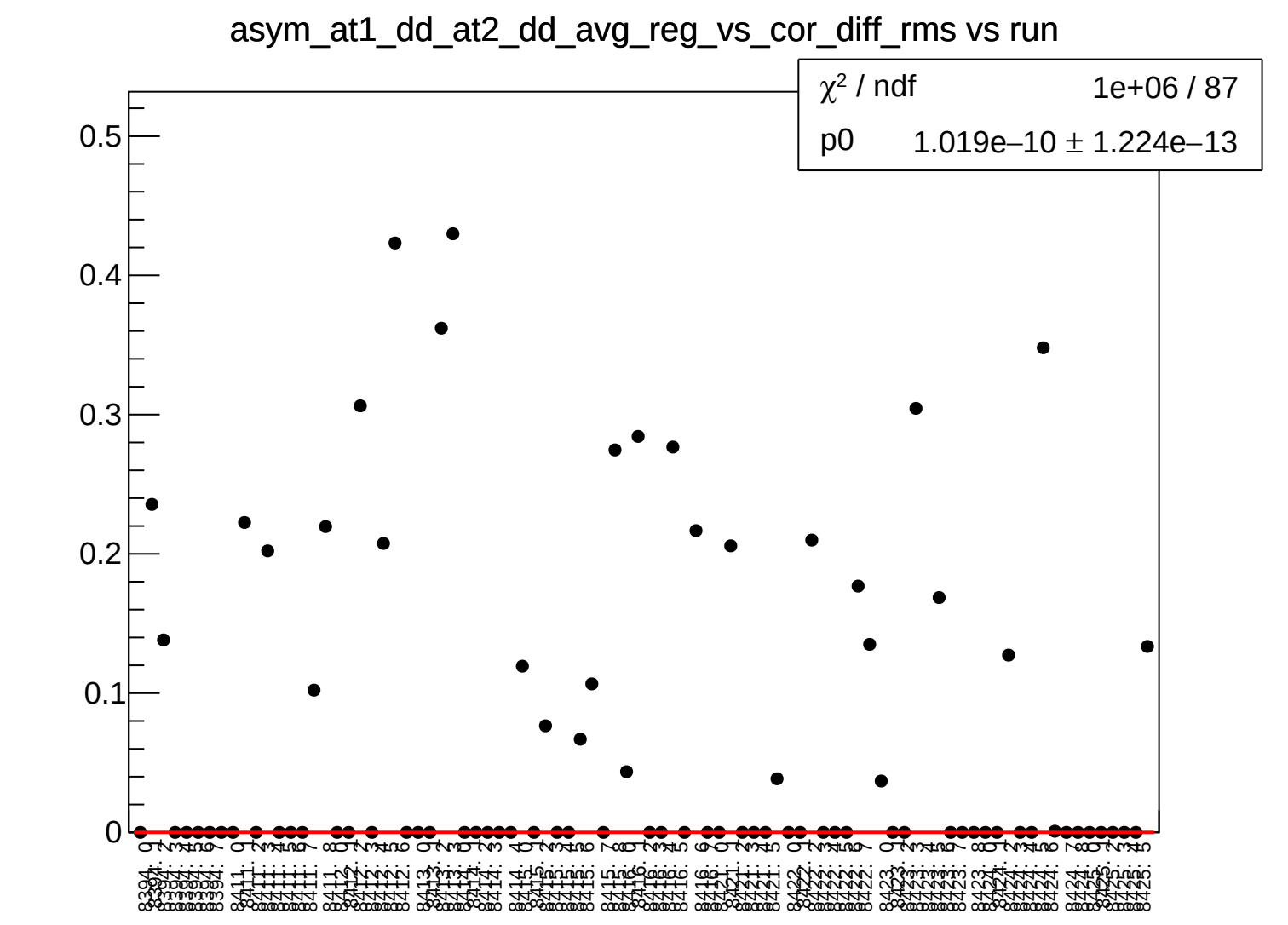

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.856e+04 / 87
p0 1429 ± 1.104
1700
1600
1500
1400
1300
1200
1100

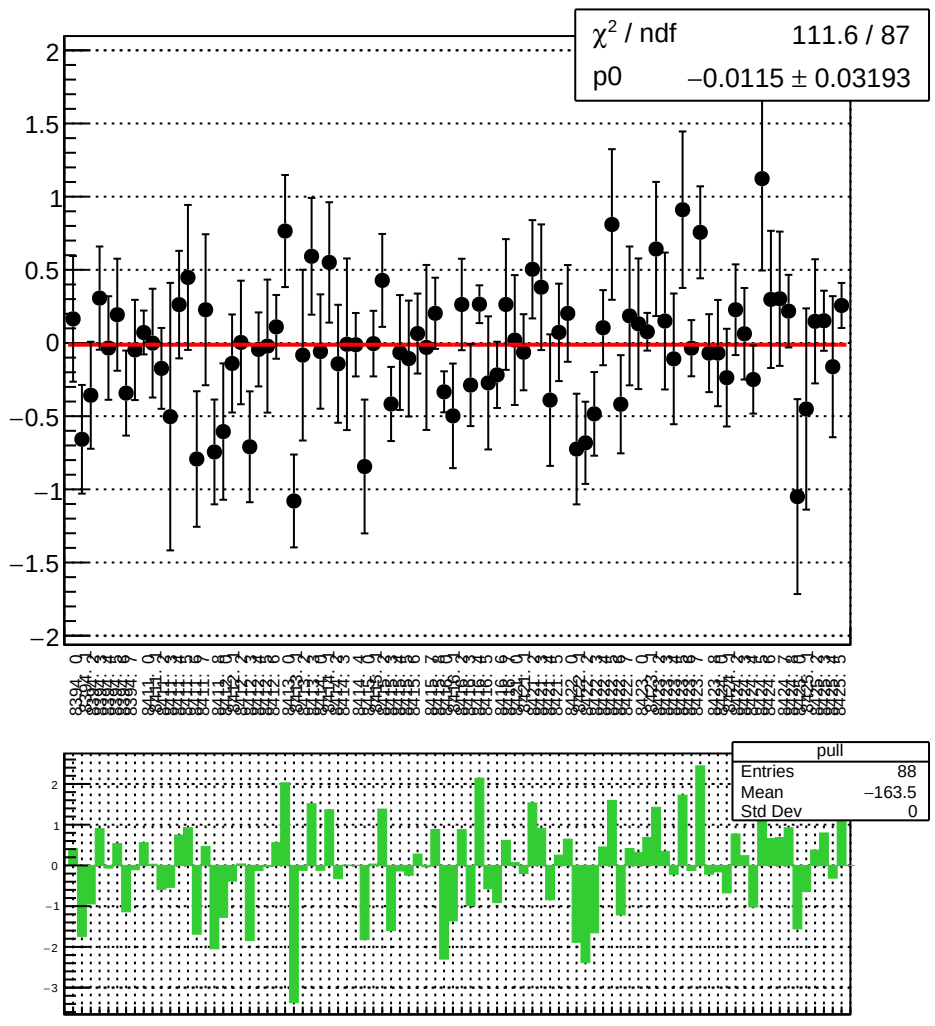

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 80.75 / 87
p0 −5835 ± 2071
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −2690
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

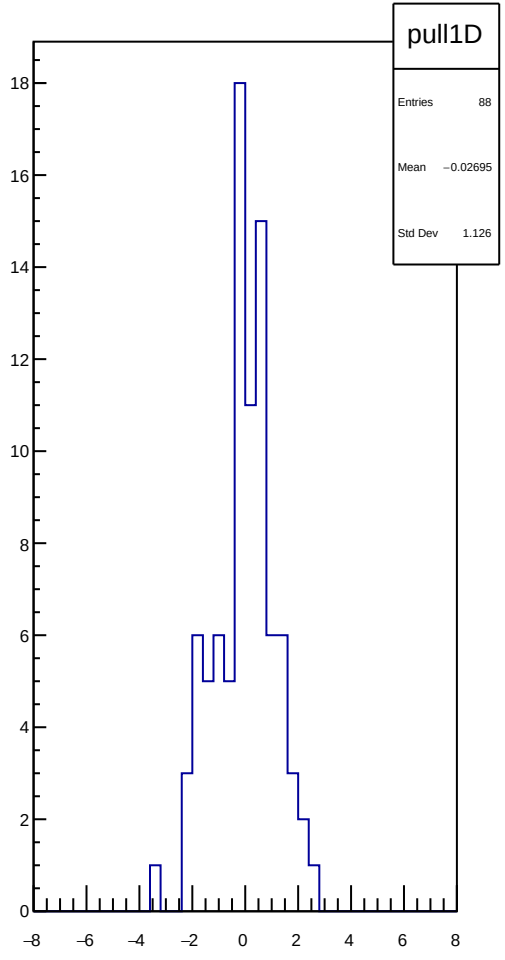

pull1D
Entries 88
Mean 0.001654
Std Dev 0.9579
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

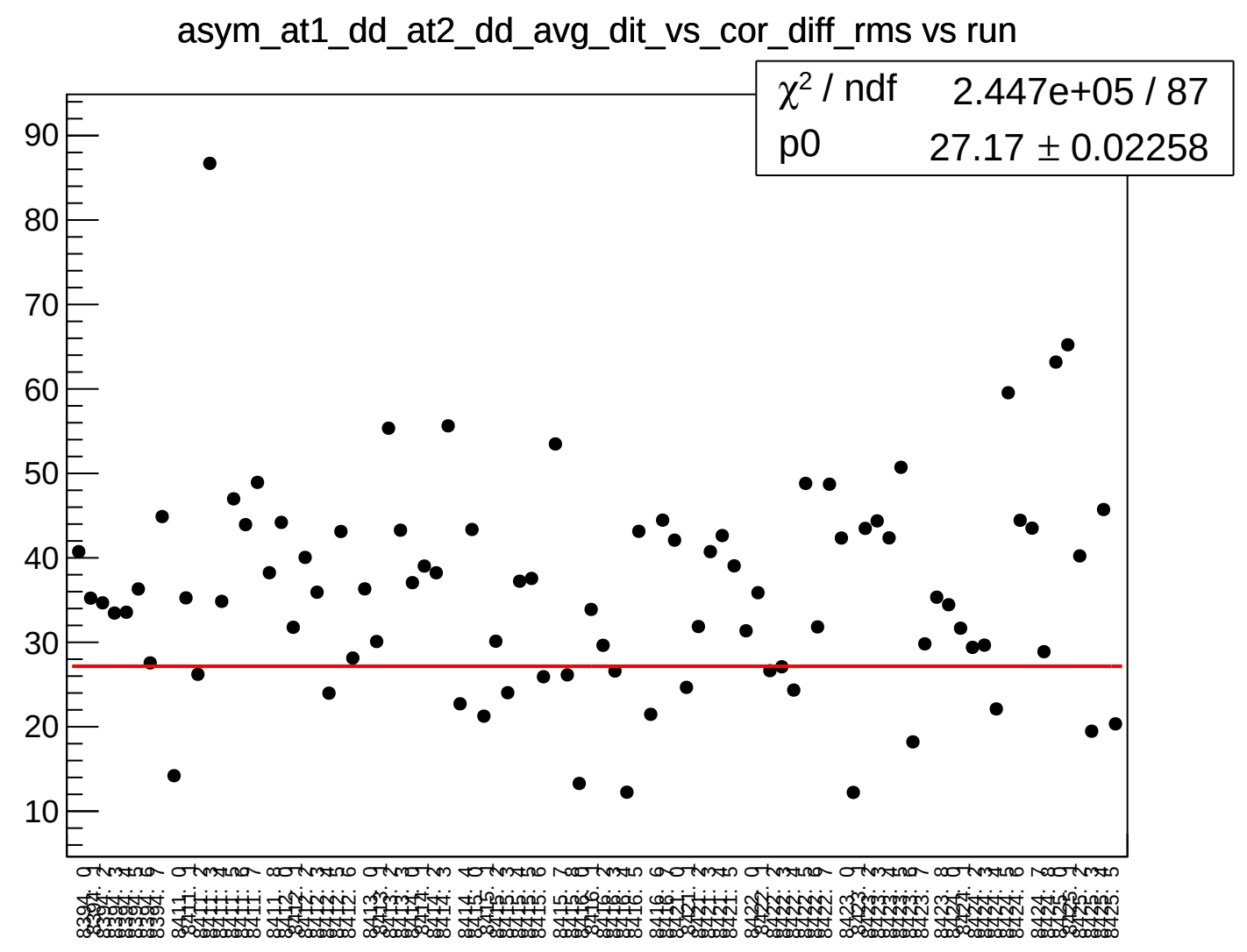

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 5049 / 87
p0 1902 ± 1.464
2100
2000
1900
1800
1700

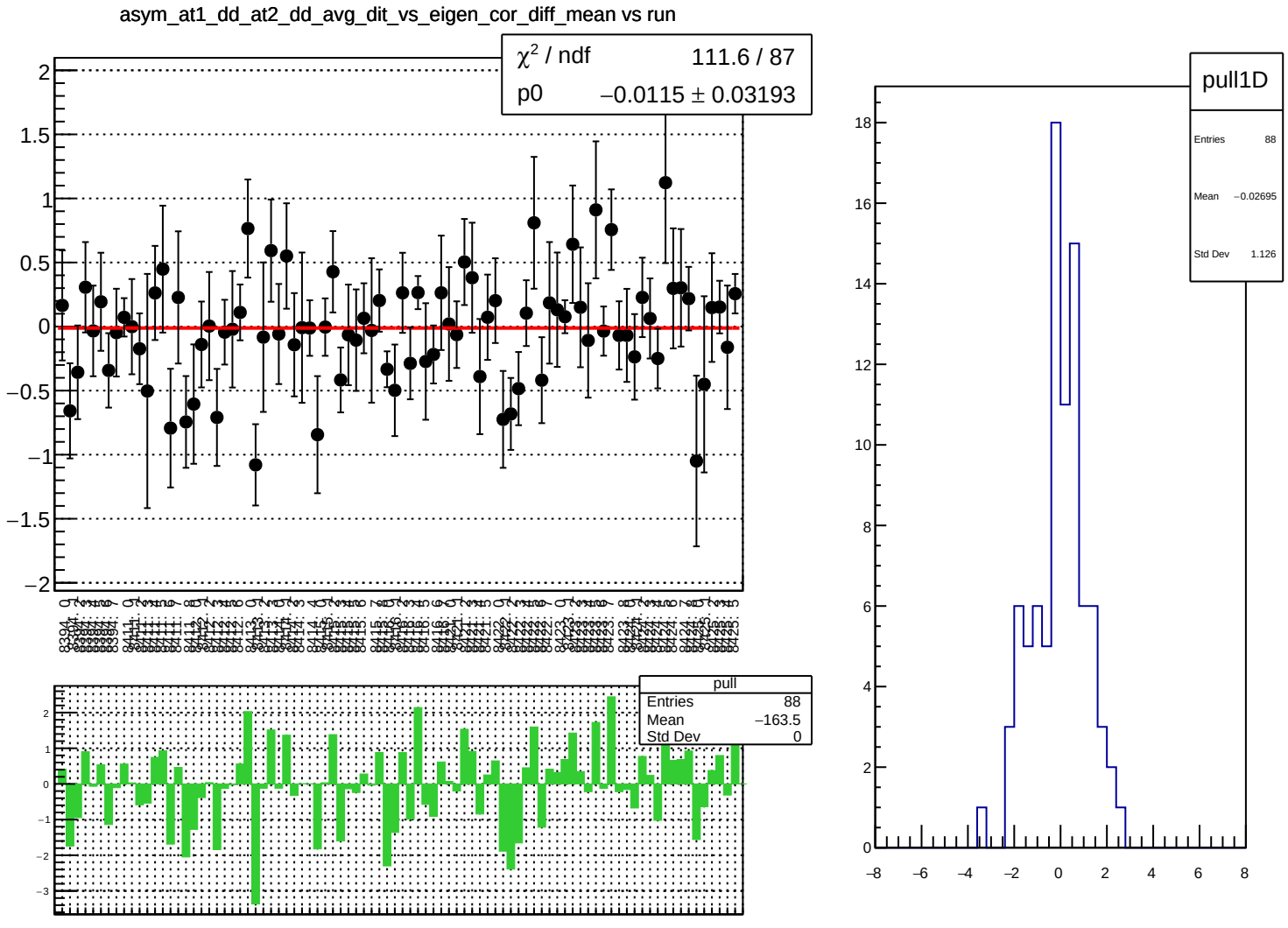

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.99 / 87
p0 2.15e−13 ± 1.731e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
pull
Entries 88
Mean 680.8
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.002229
Std Dev 1.006
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

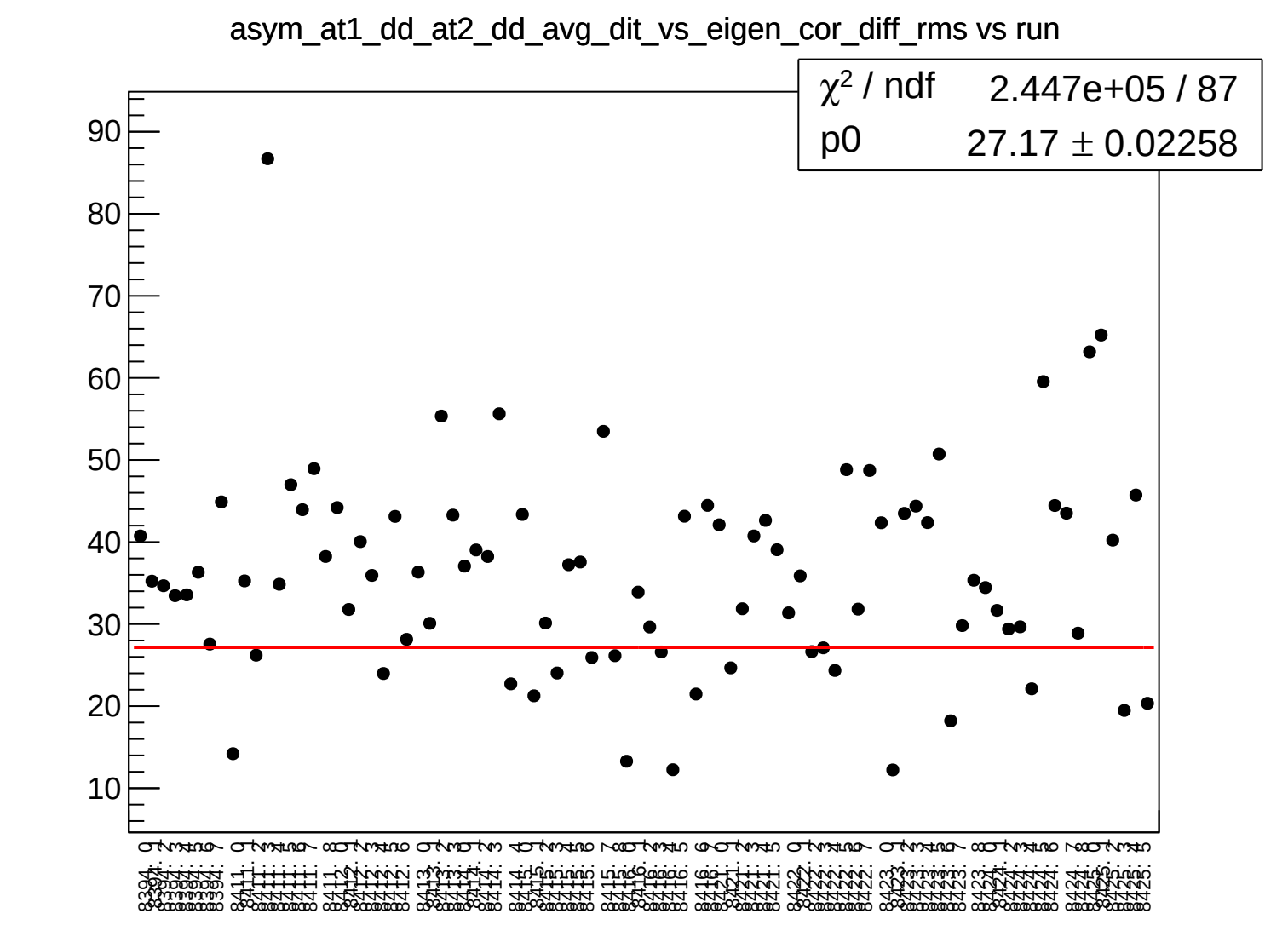

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1e+06 / 87
p0 1.019e−10 ± 1.224e−13
0.5
0.4
0.3
0.2
0.1
0

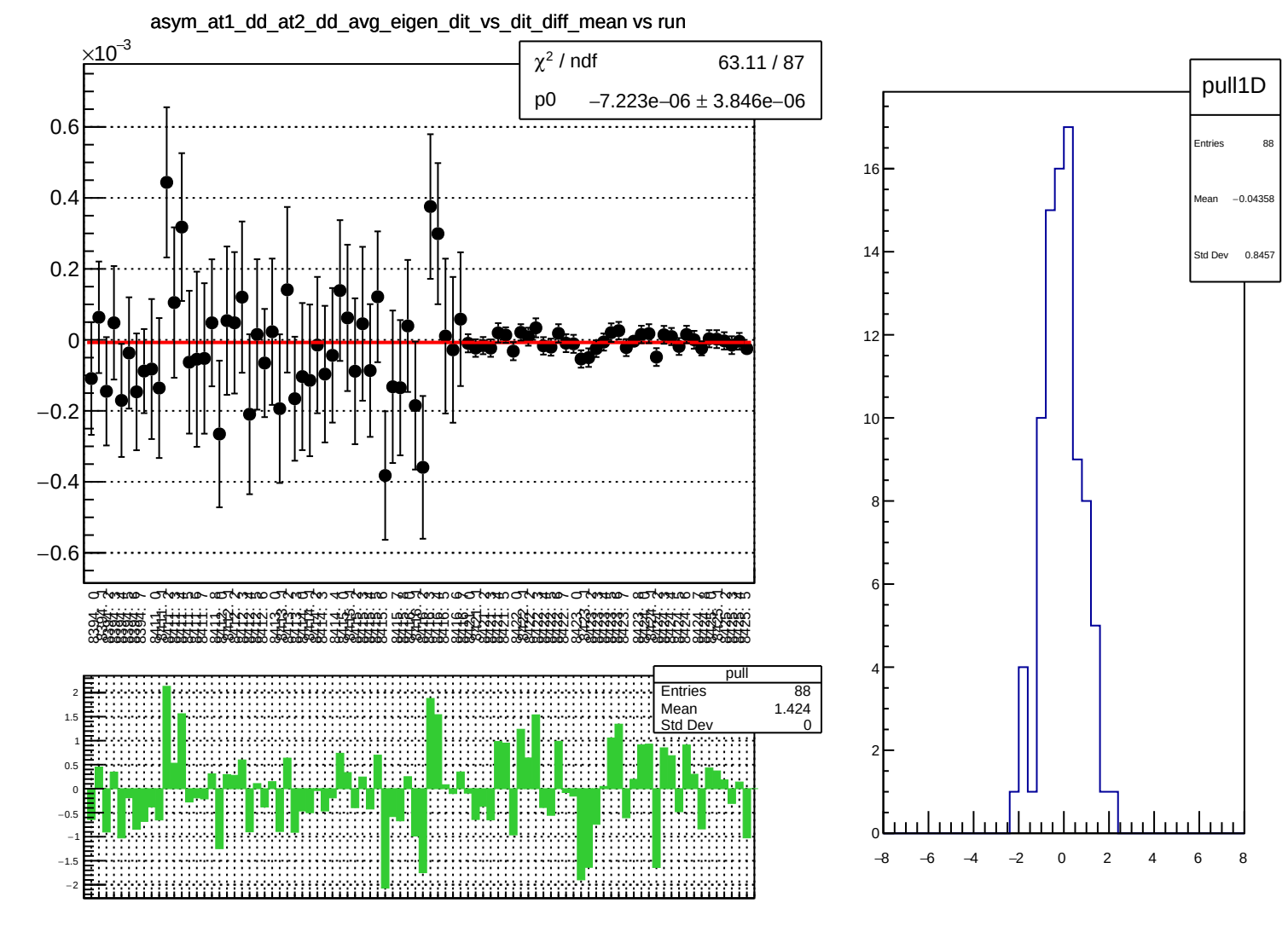

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 111.6 / 87
p0 −0.0115 ± 0.03193
pull
Entries 88
Mean −163.5
Std Dev 0

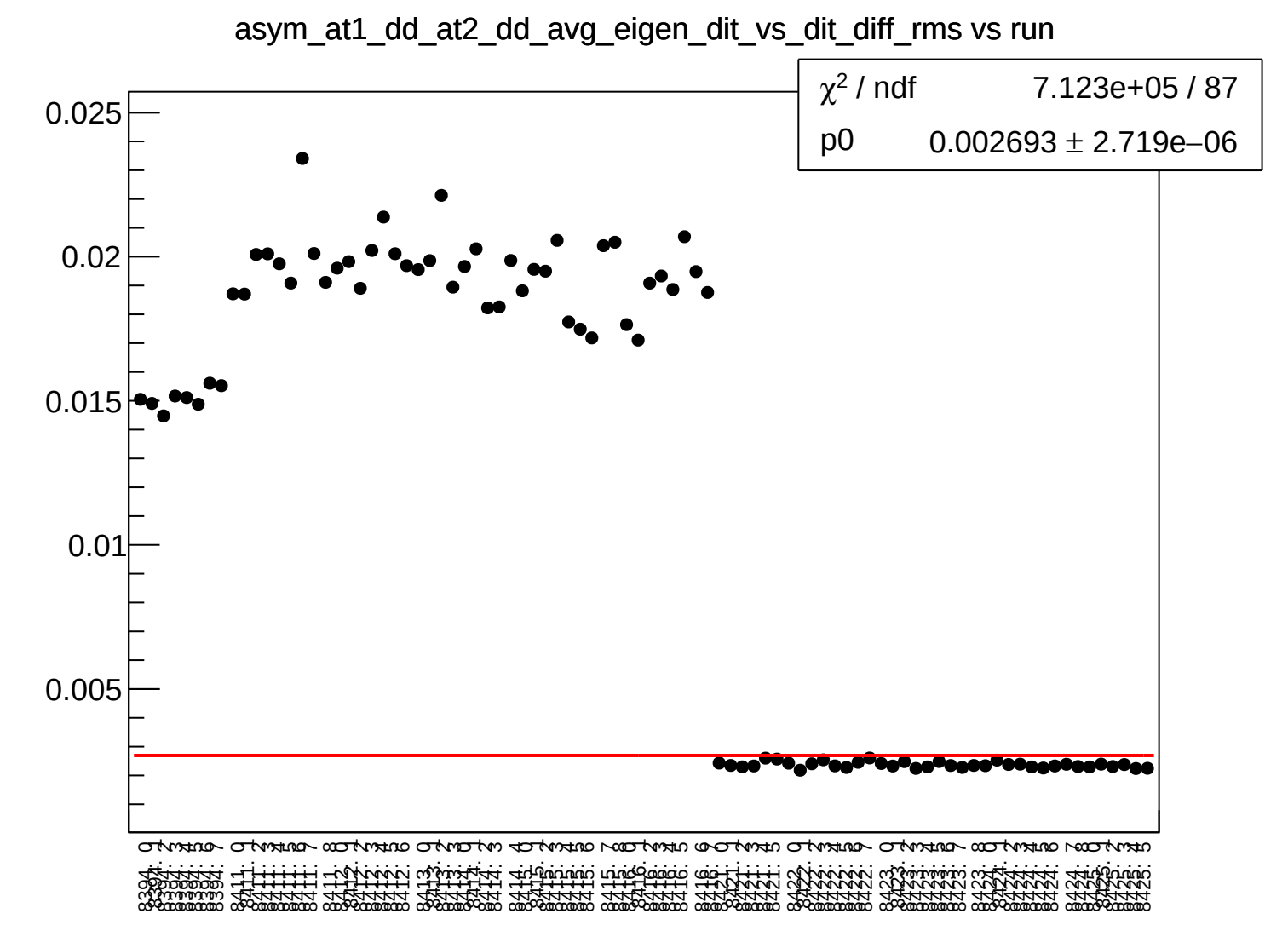

pull1D
Entries 88
Mean −0.02695
Std Dev 1.126

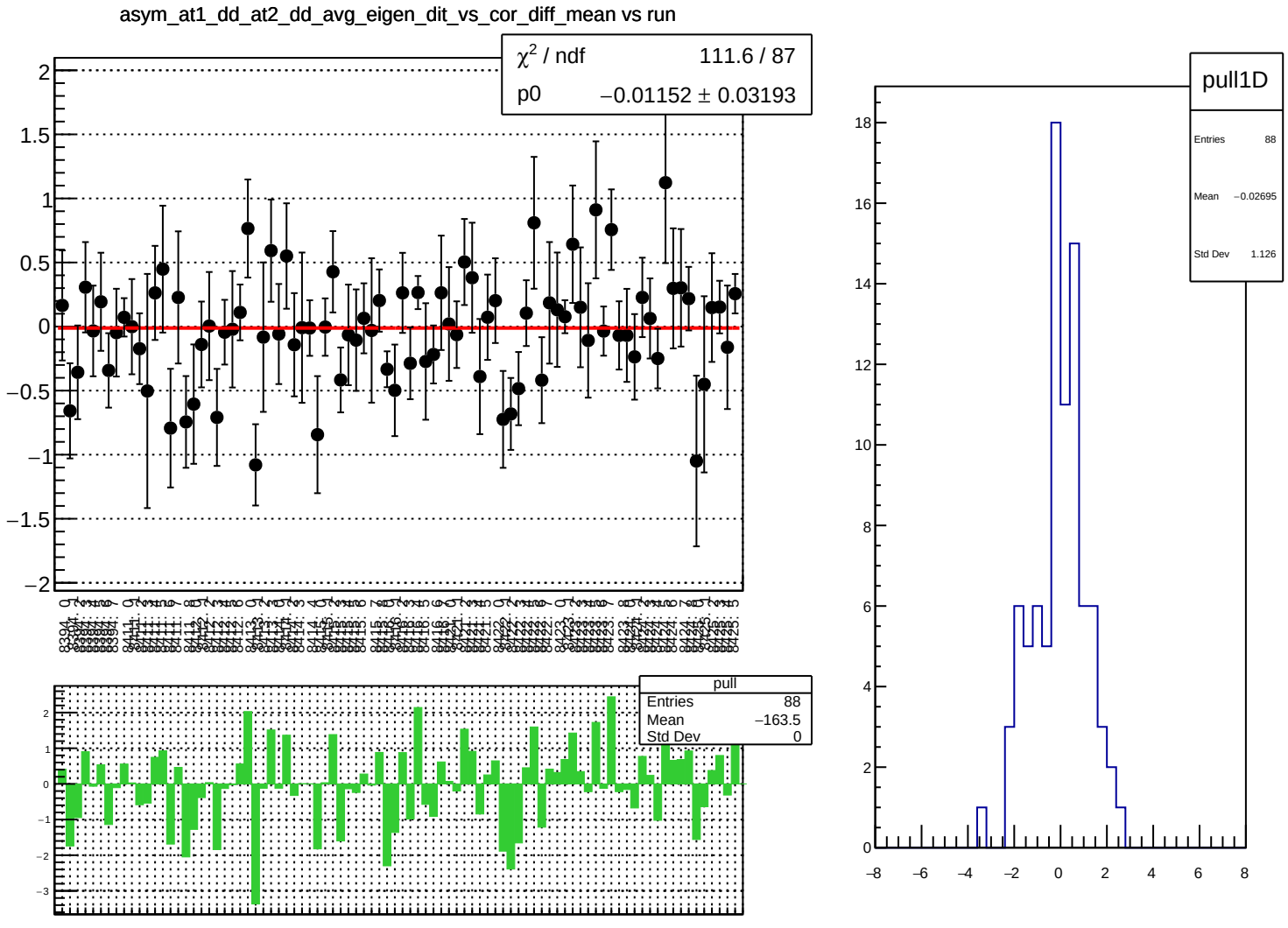

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.447e+05 / 87
p0 27.17 ± 0.02258
90
80
70
60
50
40
30
20
10

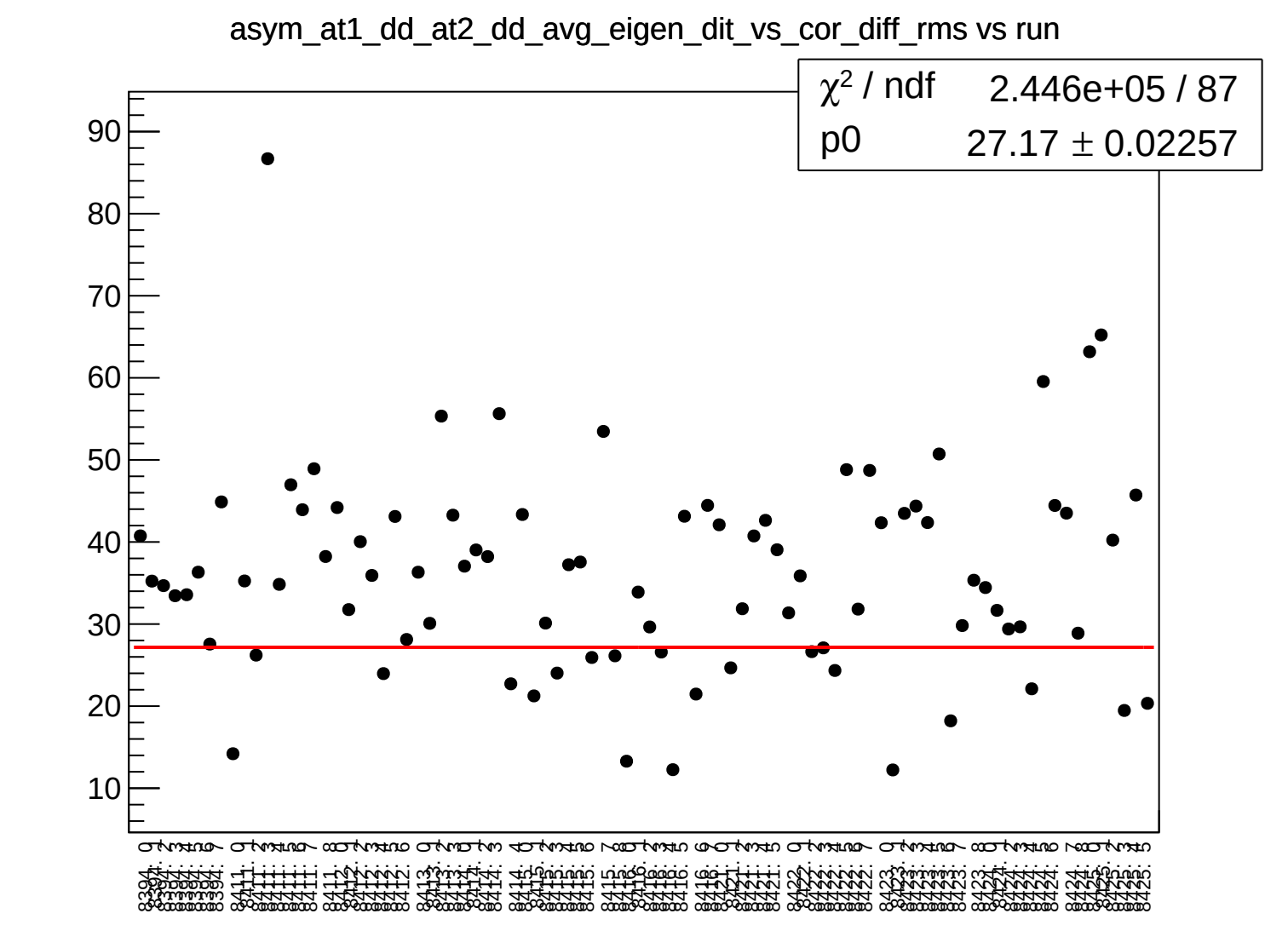

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.6 / 87
p0 −0.0115 ± 0.03193
pull
Entries 88
Mean −163.5
Std Dev 0
pull1D
Entries 88
Mean −0.02695
Std Dev 1.126

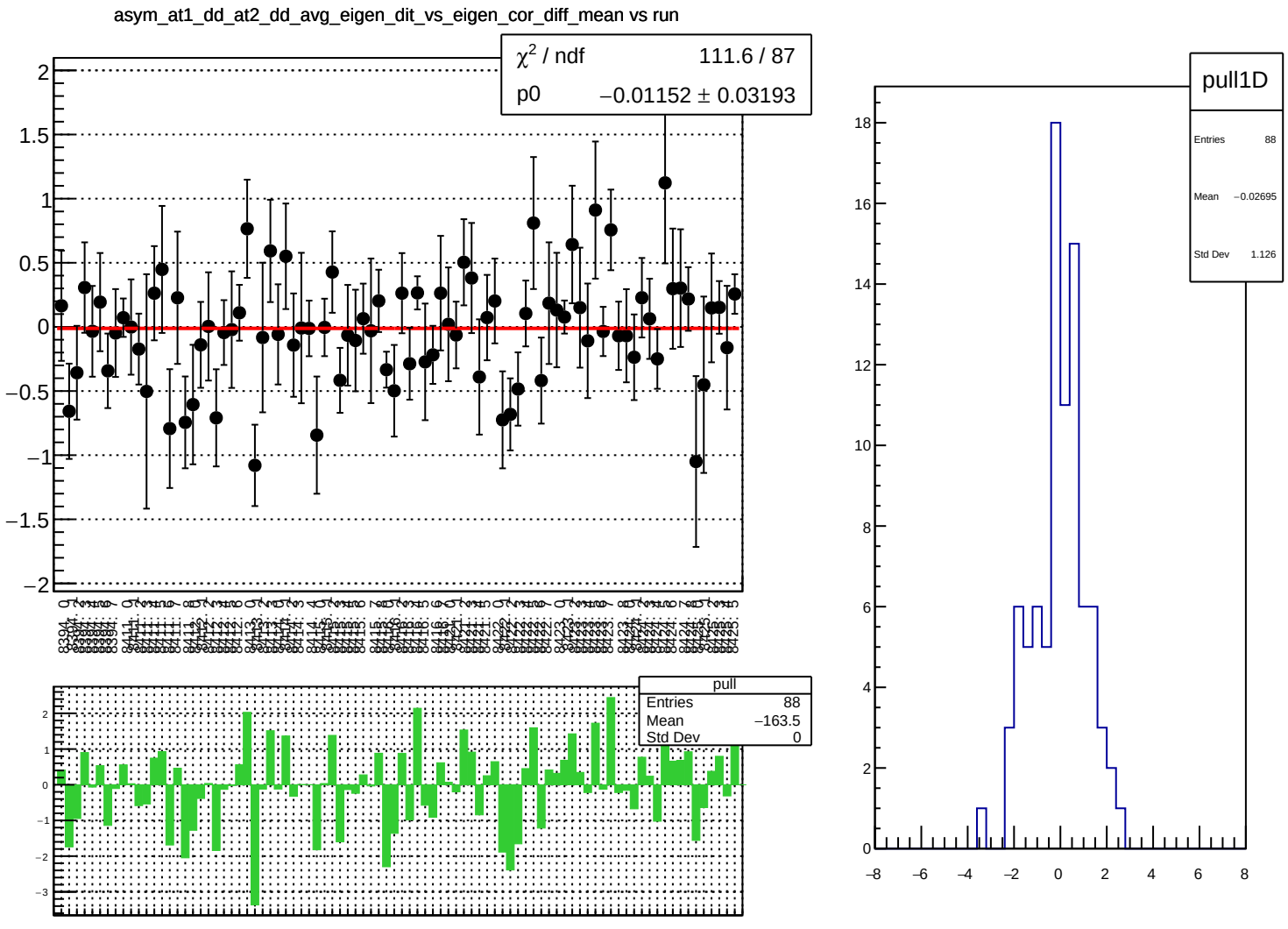

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.447e+05 / 87
p0 27.17 ± 0.02258
90
80
70
60
50
40
30
20
10

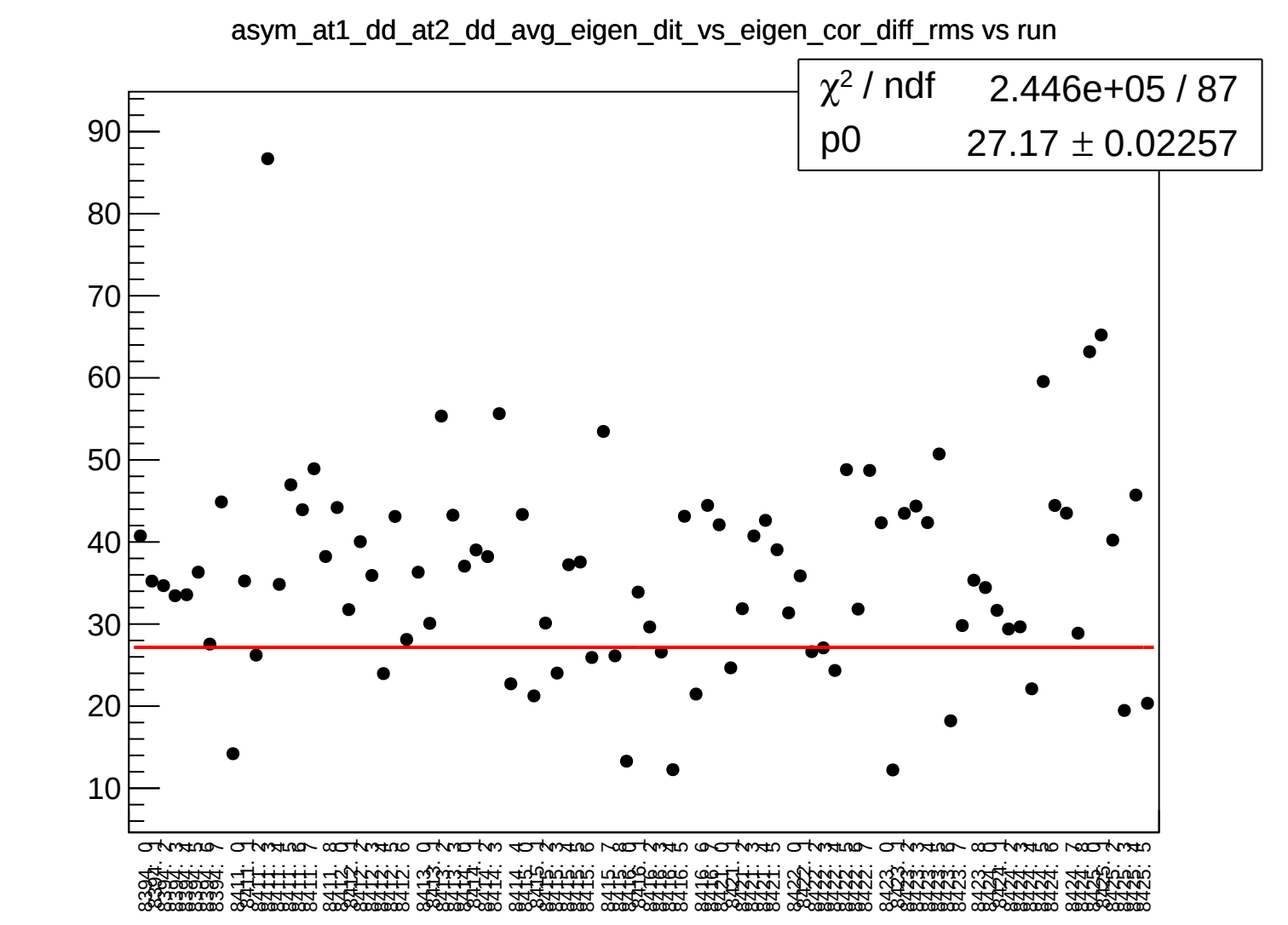

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 63.11 / 87
p0 −7.223e−06 ± 3.846e−06
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 88
Mean 1.424
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.04358
Std Dev 0.8457
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

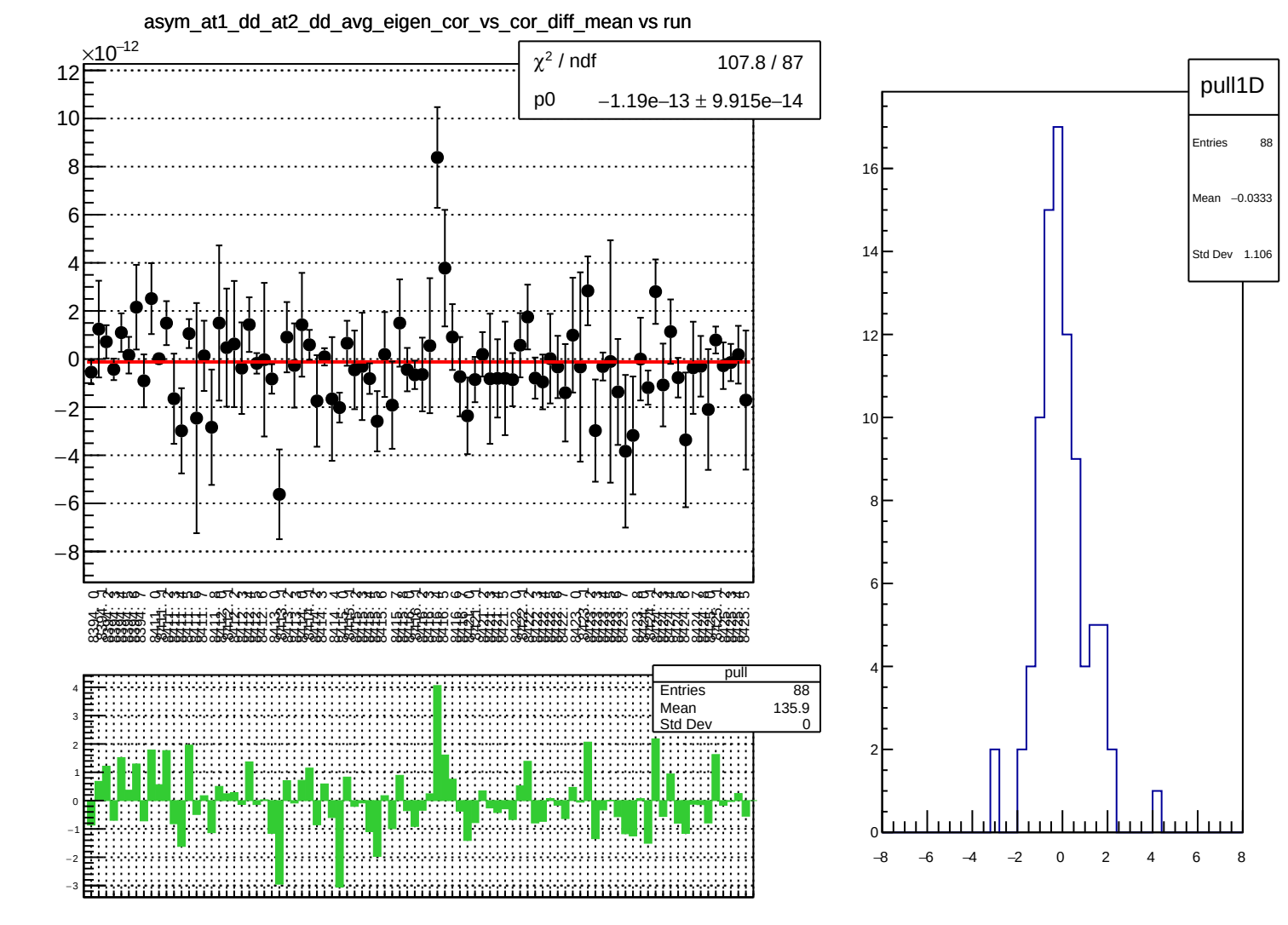

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.123e+05 / 87
p0 0.002693 ± 2.719e−06
0.025
0.02
0.015
0.01
0.005

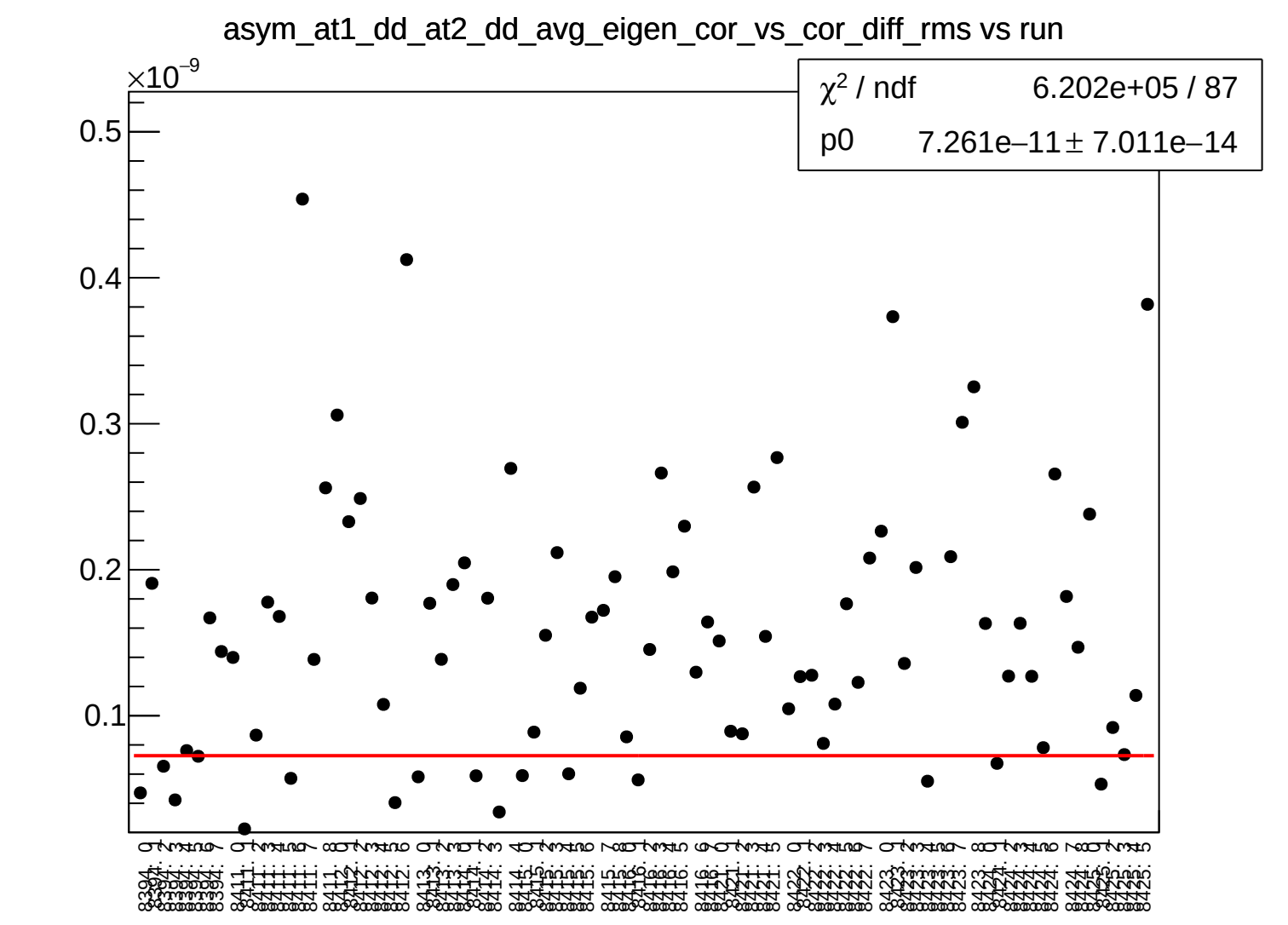

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 111.6 / 87
p0 −0.01152 ± 0.03193
pull
Entries 88
Mean −163.5
Std Dev 0
pull1D
Entries 88
Mean −0.02695
Std Dev 1.126

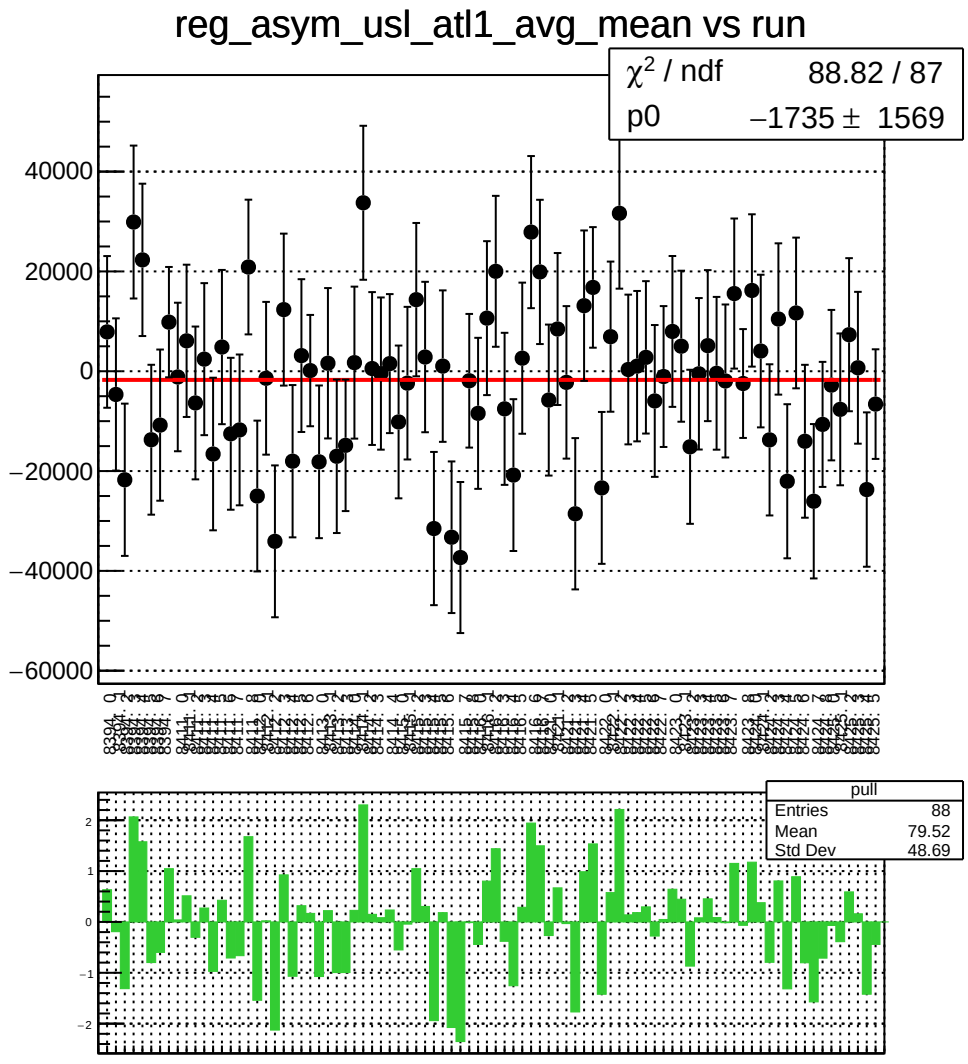

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.446e+05 / 87
p0 27.17 ± 0.02257
90
80
70
60
50
40
30
20
10

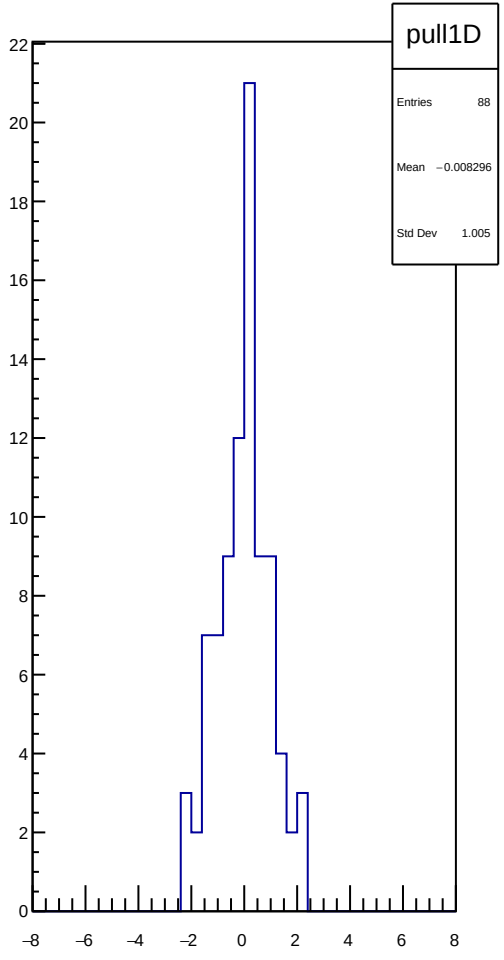

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.6 / 87
p0 −0.01152 ± 0.03193
pull
Entries 88
Mean −163.5
Std Dev 0
pull1D
Entries 88
Mean −0.02695
Std Dev 1.126

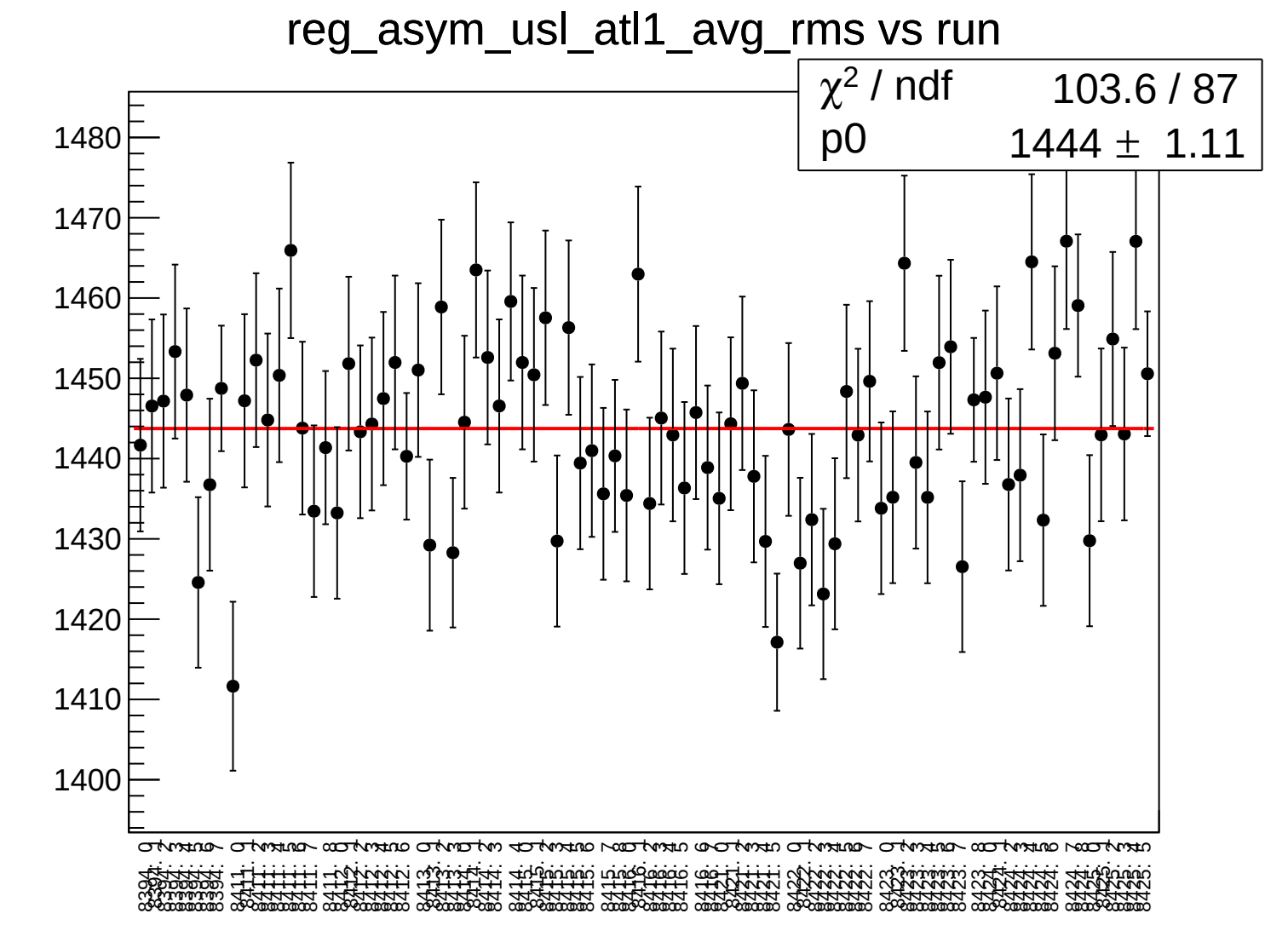

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.446e+05 / 87
p0 27.17 ± 0.02257
90
80
70
60
50
40
30
20
10

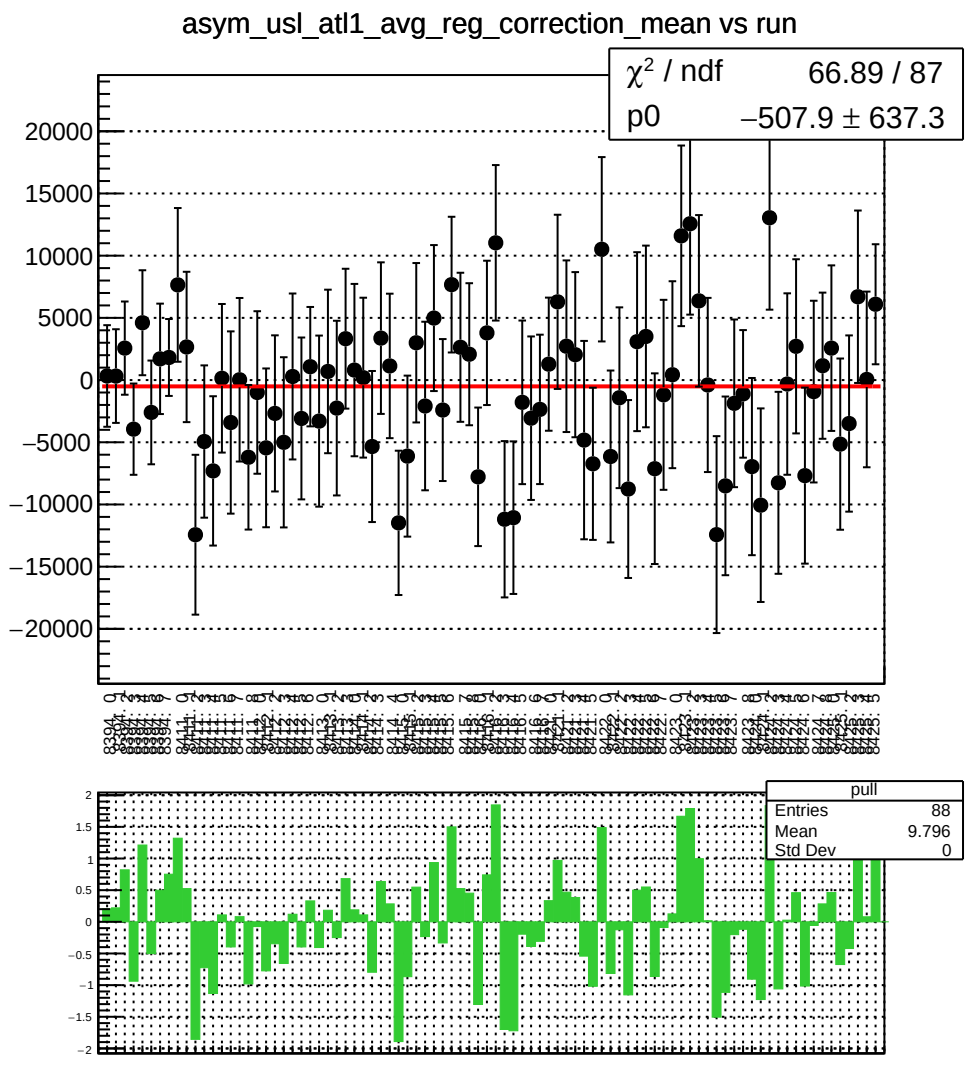

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 107.8 / 87
p0 −1.19e−13 ± 9.915e−14
pull
Entries 88
Mean 135.9
Std Dev 0
pull1D
Entries 88
Mean −0.0333
Std Dev 1.106

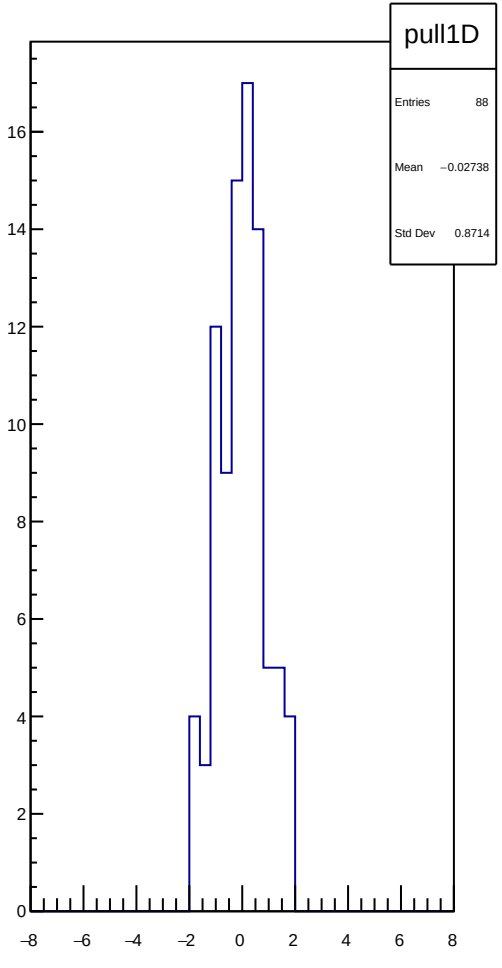

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.202e+05 / 87
p0 7.261e−11 ± 7.011e−14
0.5
0.4
0.3
0.2
0.1

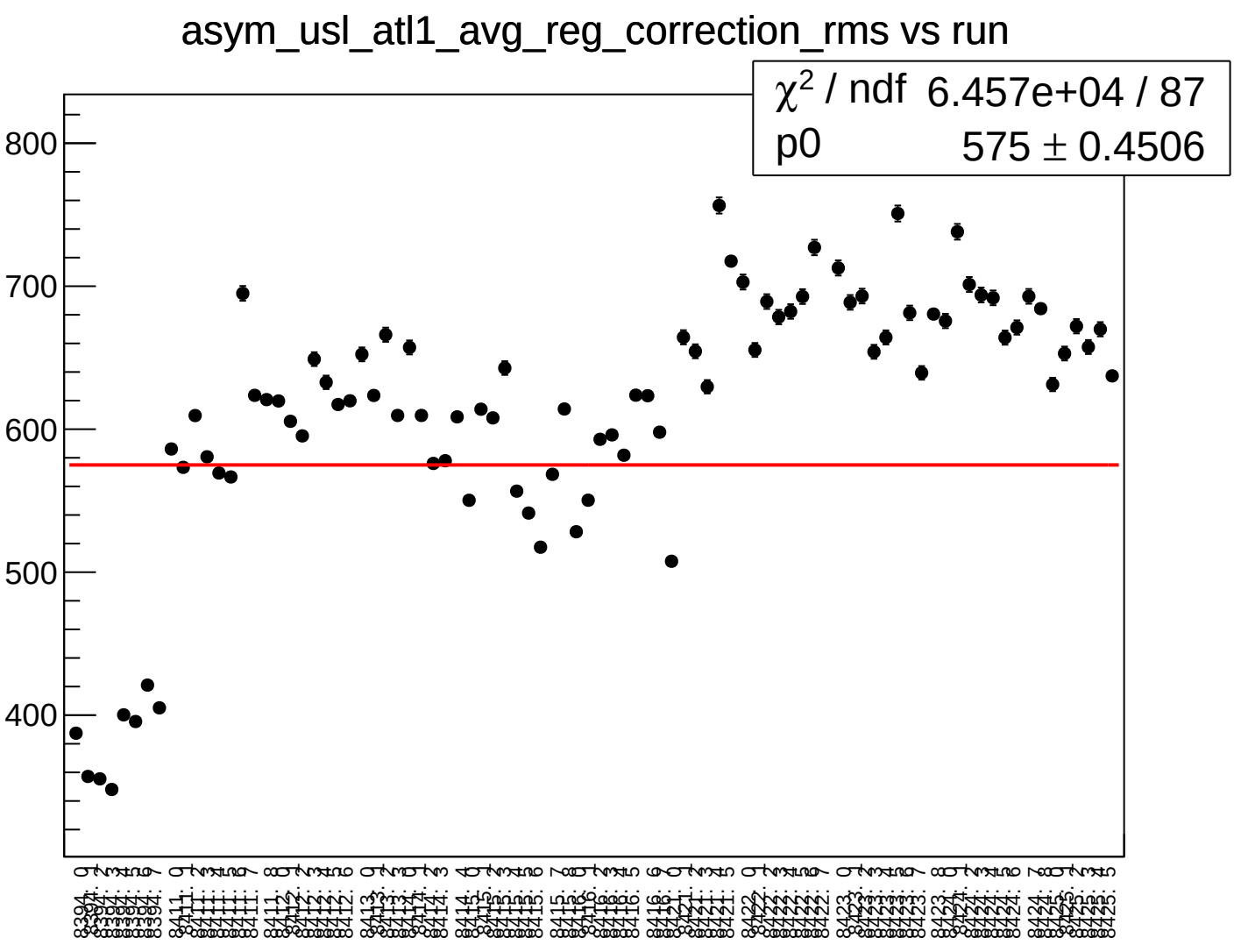

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 88.82 / 87
p0 −1735 ± 1569
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 79.52
Std Dev 48.69
2
1
0
−1
−2

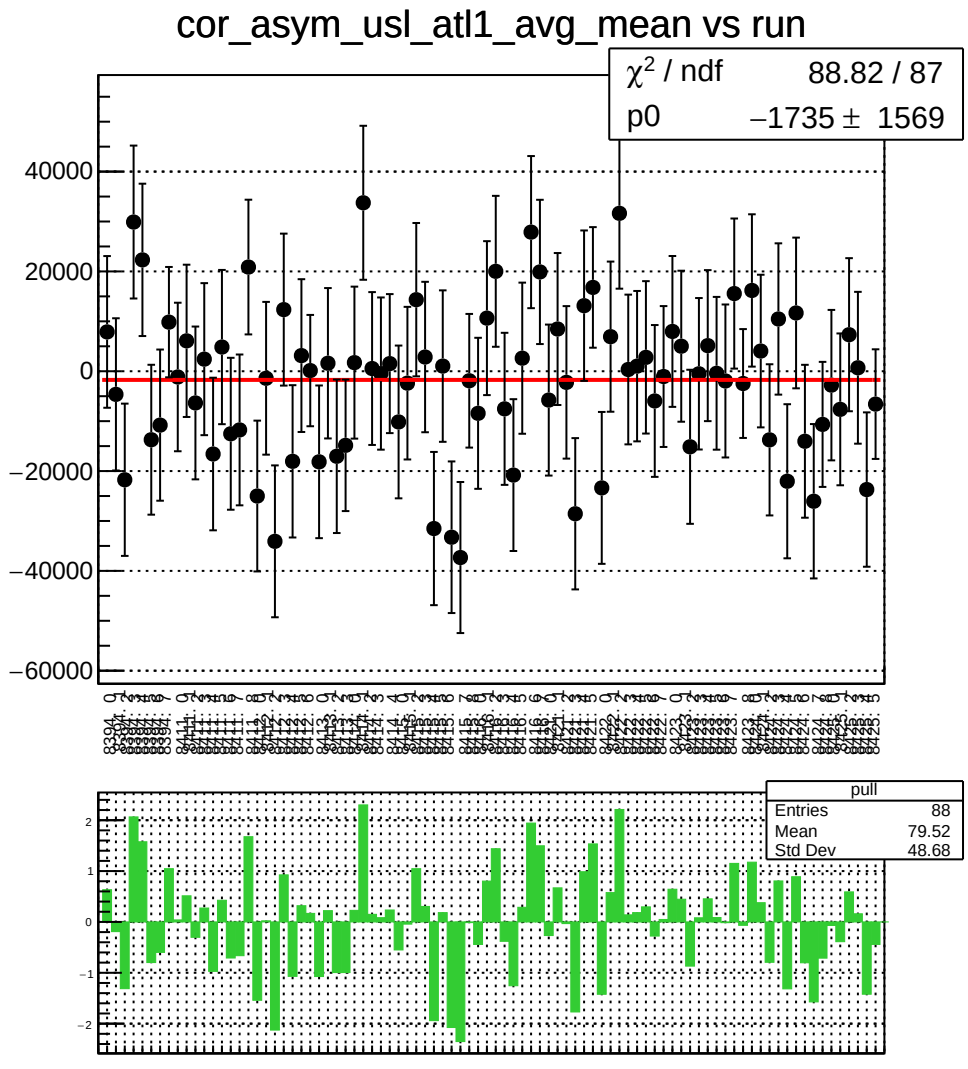

pull1D
Entries 88
Mean −0.008296
Std Dev 1.005
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

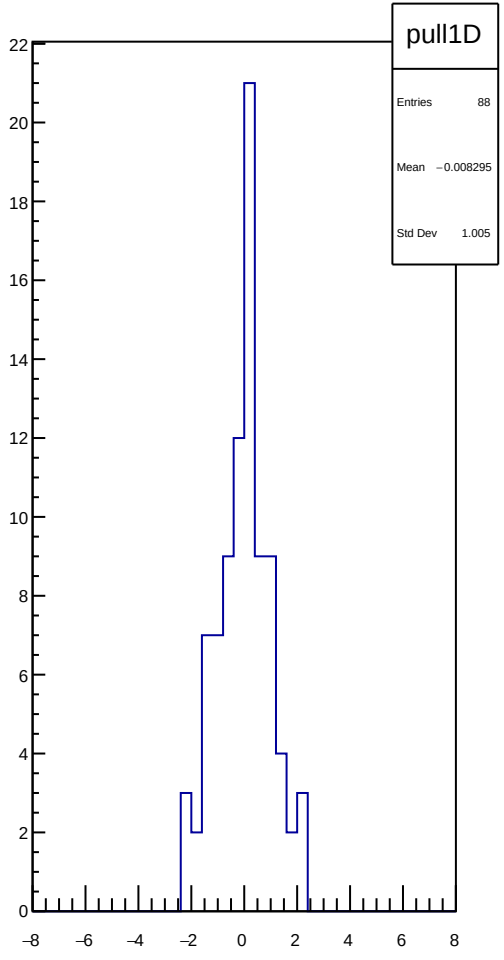

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 103.6 / 87
p0 1444 ± 1.11
1480
1470
1460
1450
1440
1430
1420
1410
1400

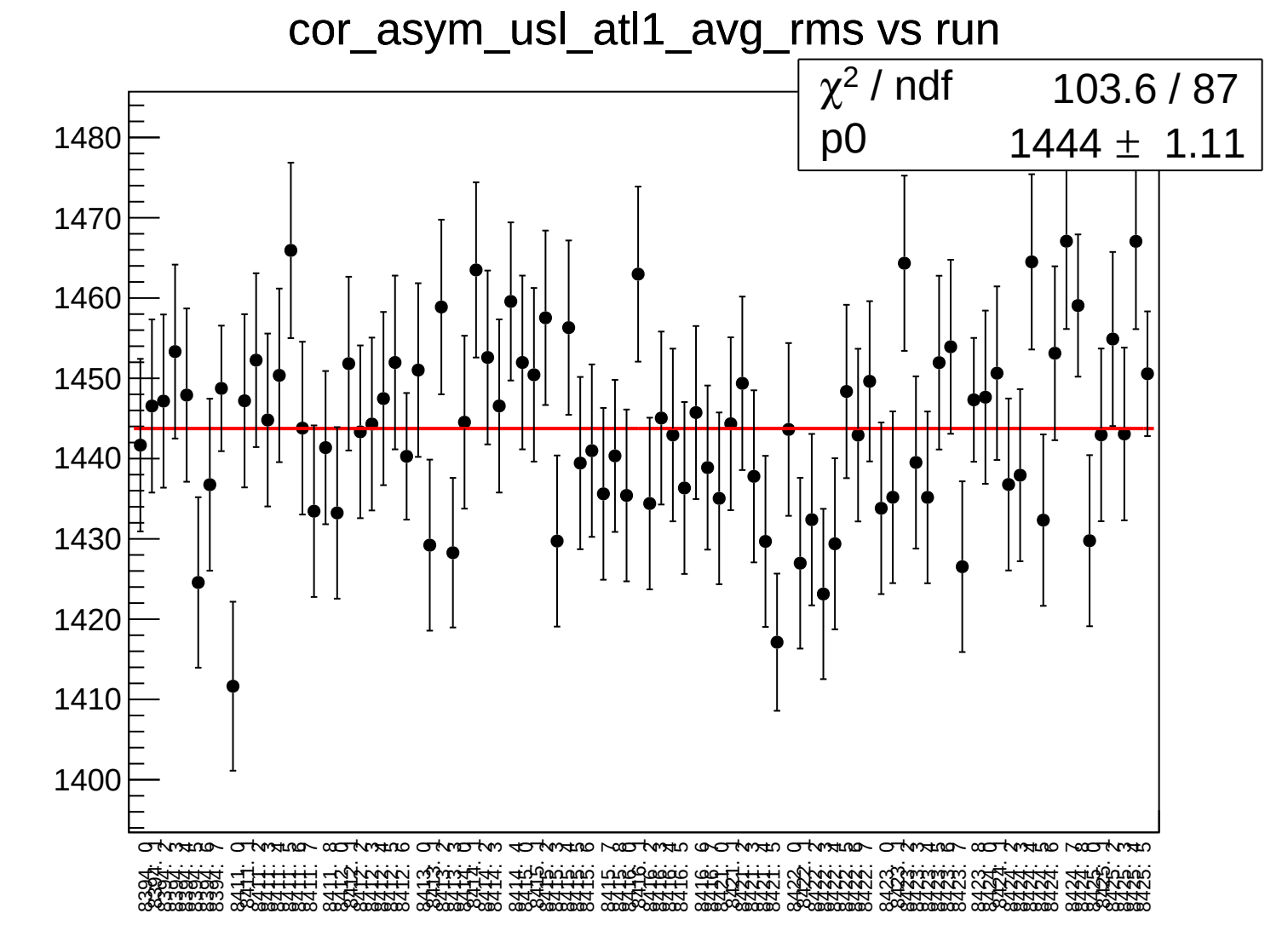

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 66.89 / 87
p0 −507.9 ± 637.3
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 9.796
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

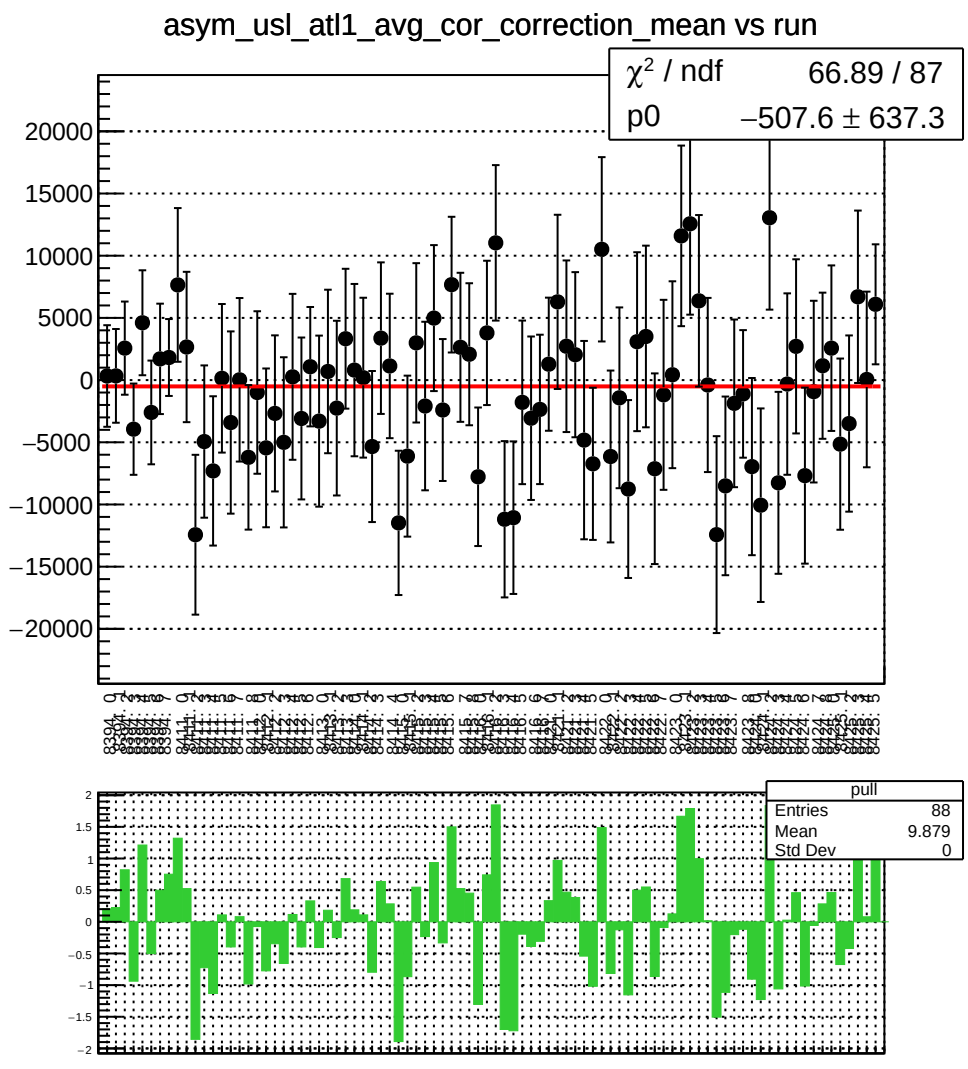

pull1D
Entries 88
Mean −0.02738
Std Dev 0.8714
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

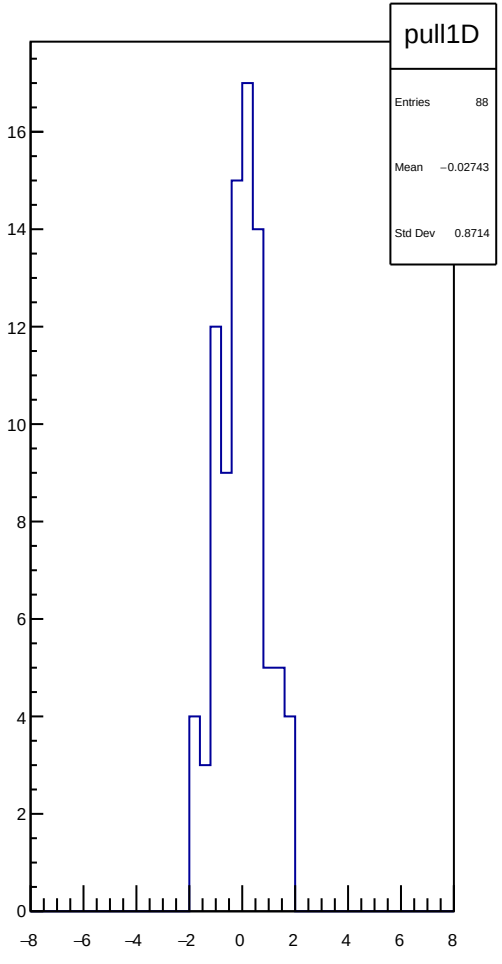

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 6.457e+04 / 87
p0 575 ± 0.4506
800
700
600
500
400

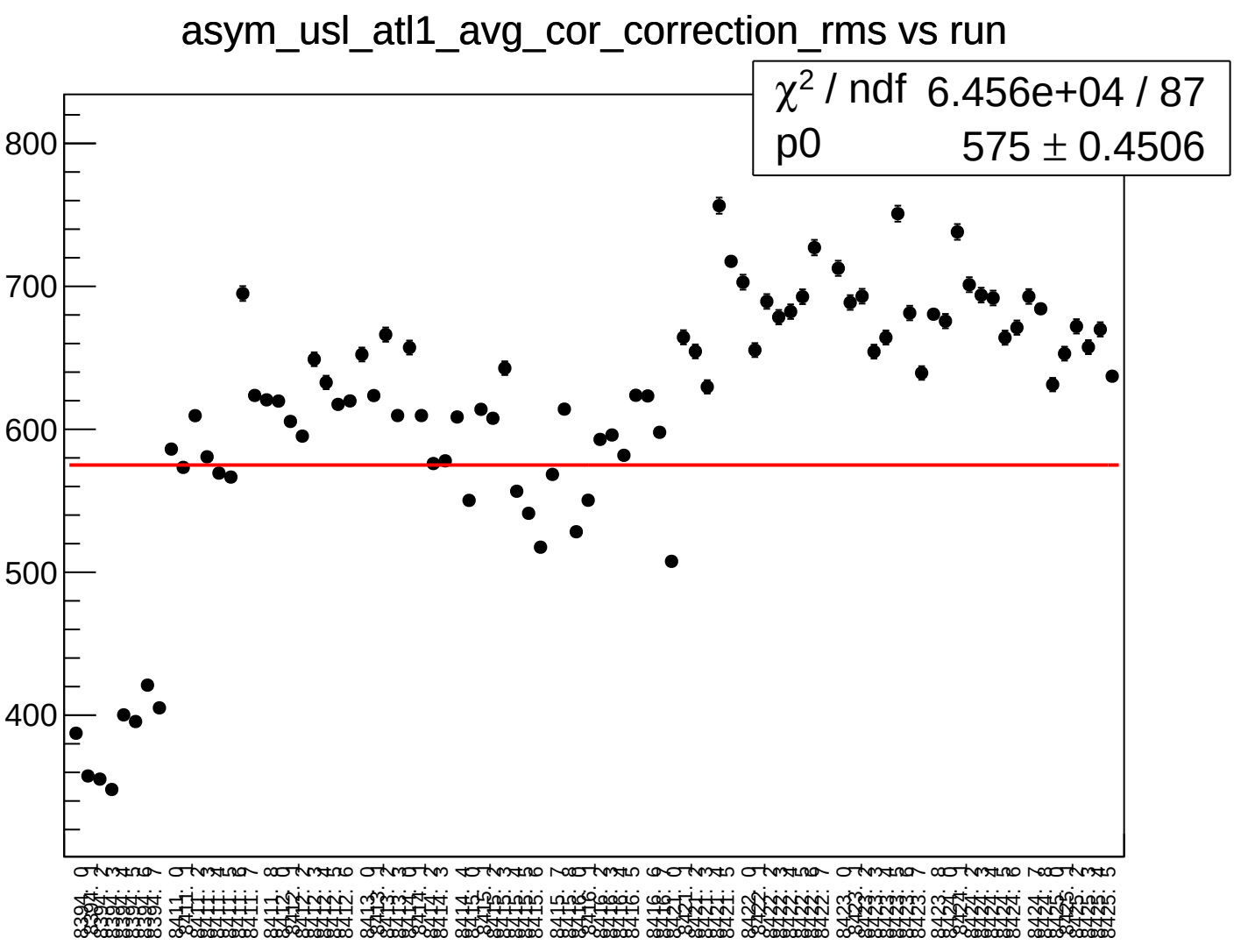

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 88.82 / 87
p0 −1735 ± 1569
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 79.52
Std Dev 48.68
2
1
0
−1
−2

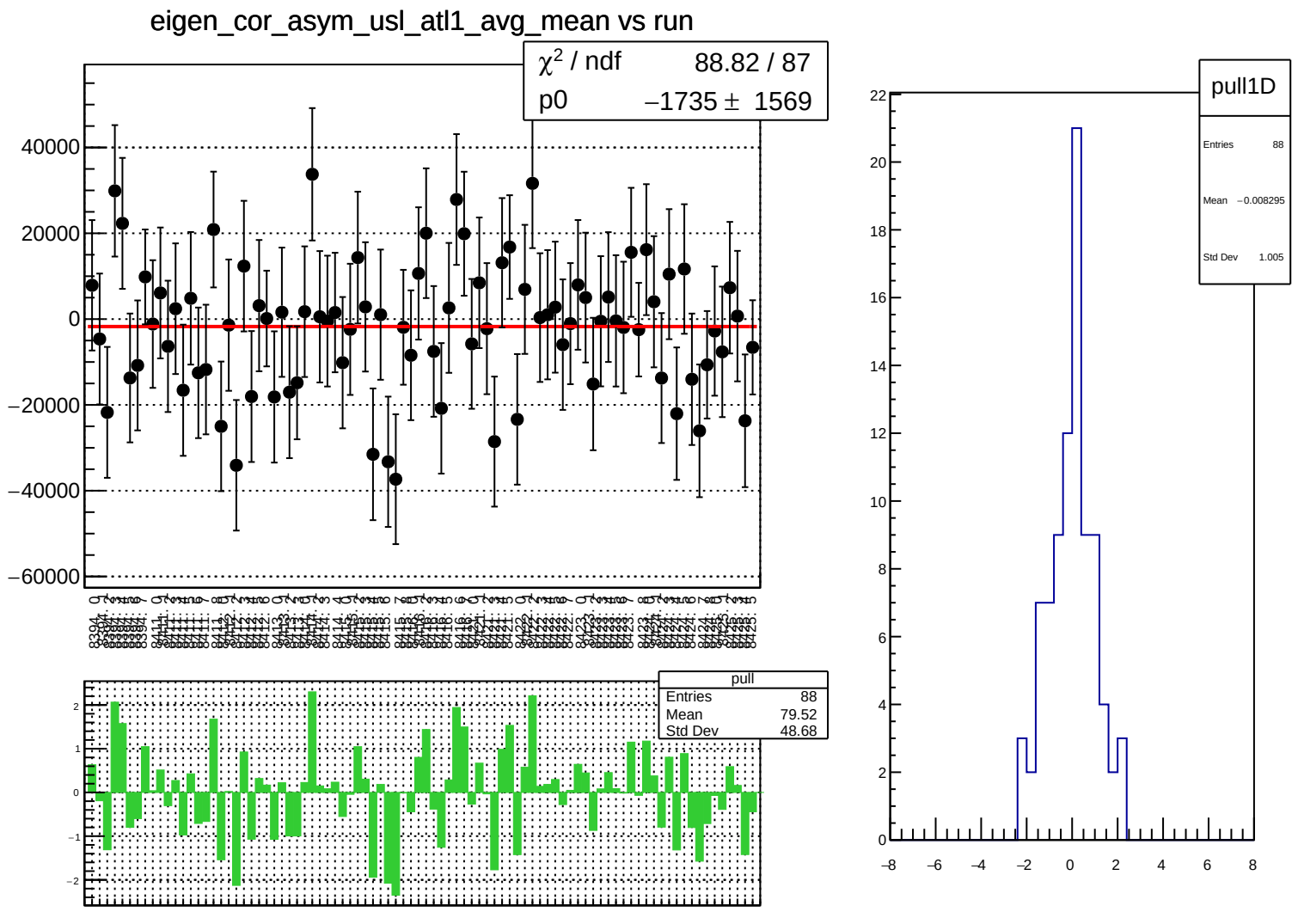

pull1D
Entries 88
Mean −0.008295
Std Dev 1.005
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

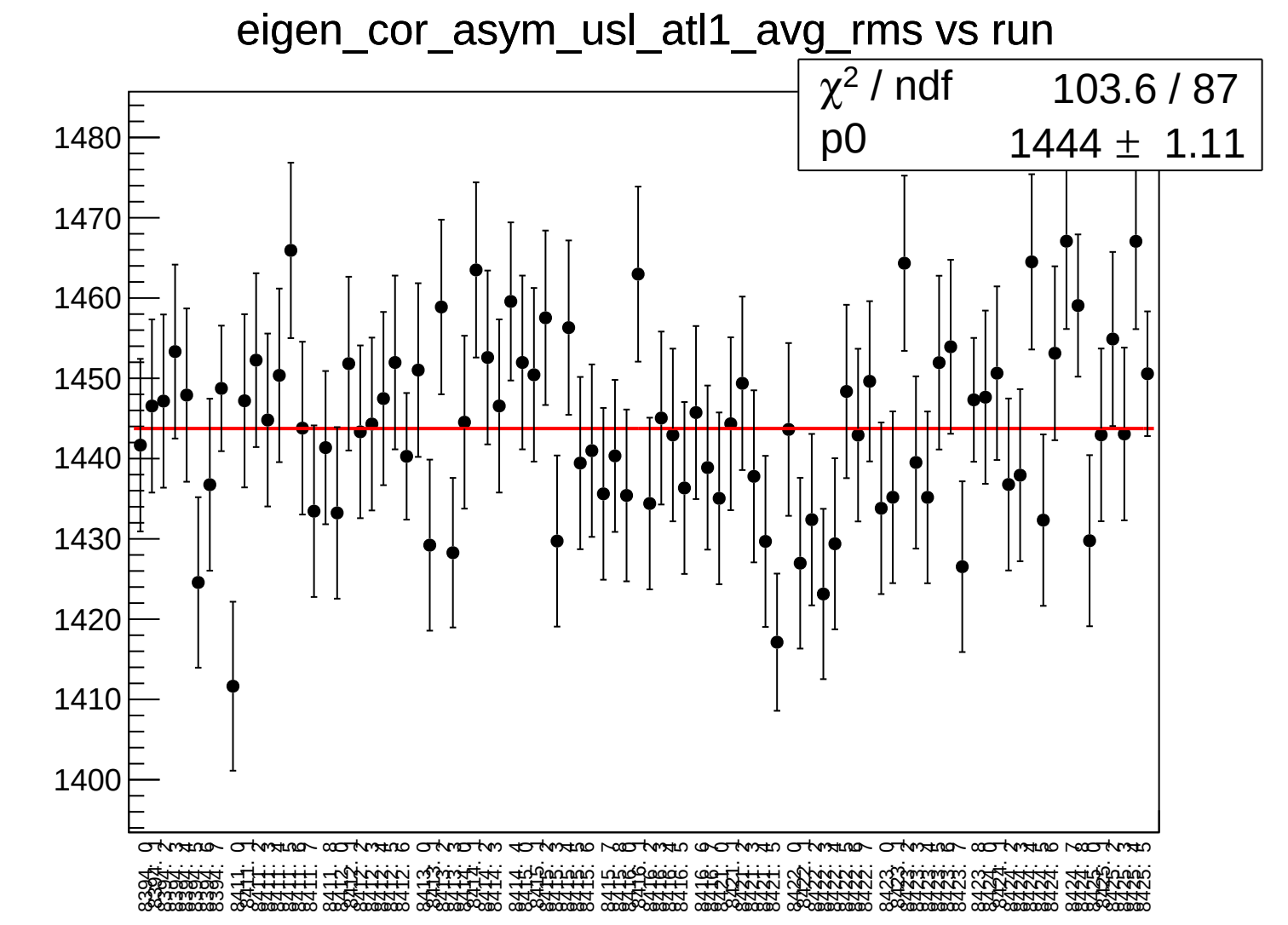

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 103.6 / 87
p0 1444 ± 1.11
1480
1470
1460
1450
1440
1430
1420
1410
1400

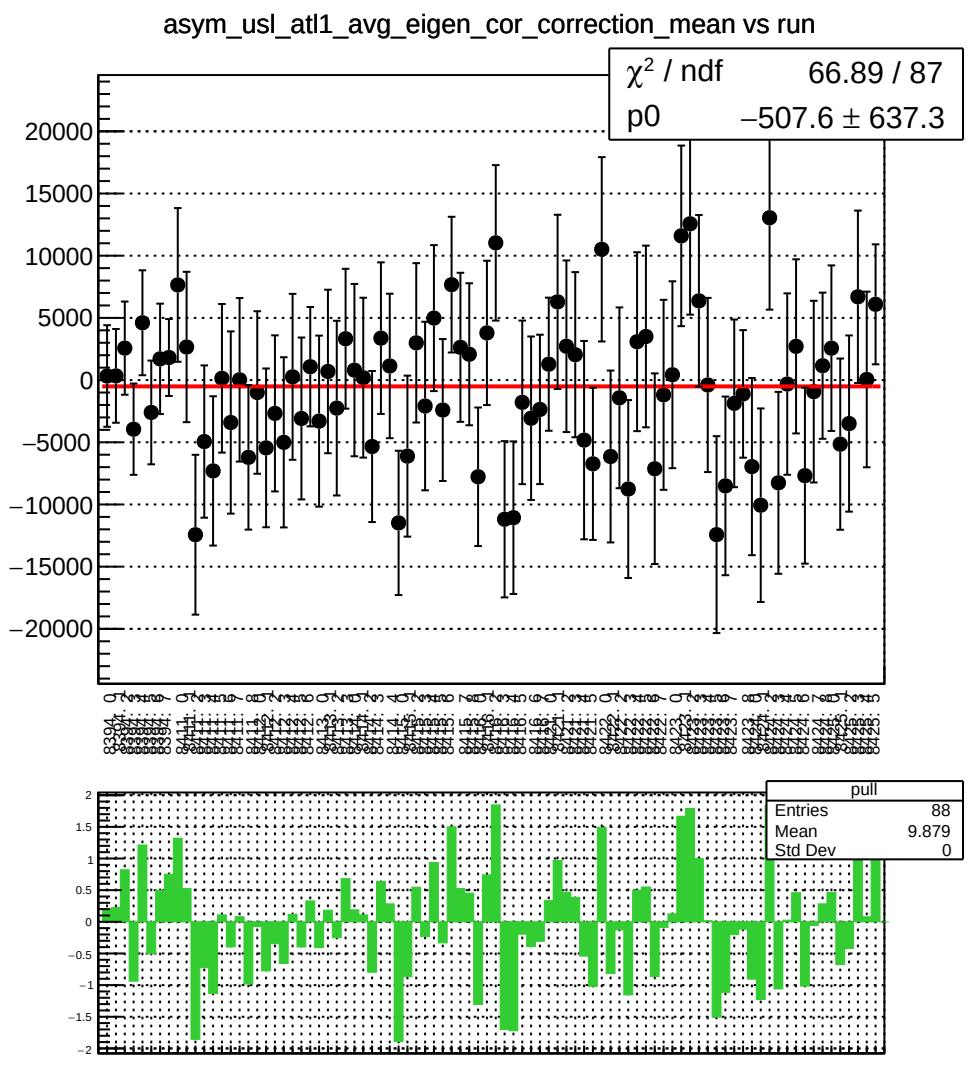

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 66.89 / 87
p0 −507.6 ± 637.3
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 9.879
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

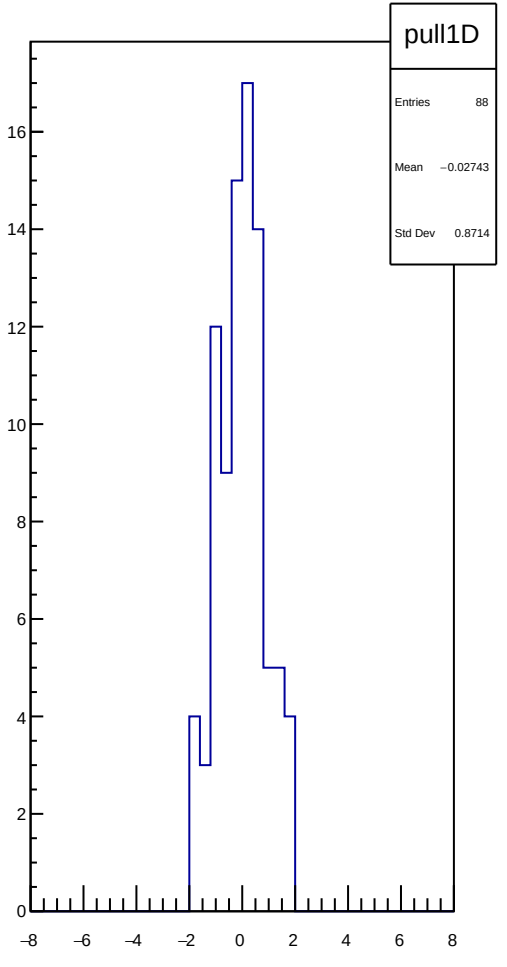

pull1D
Entries 88
Mean −0.02743
Std Dev 0.8714
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

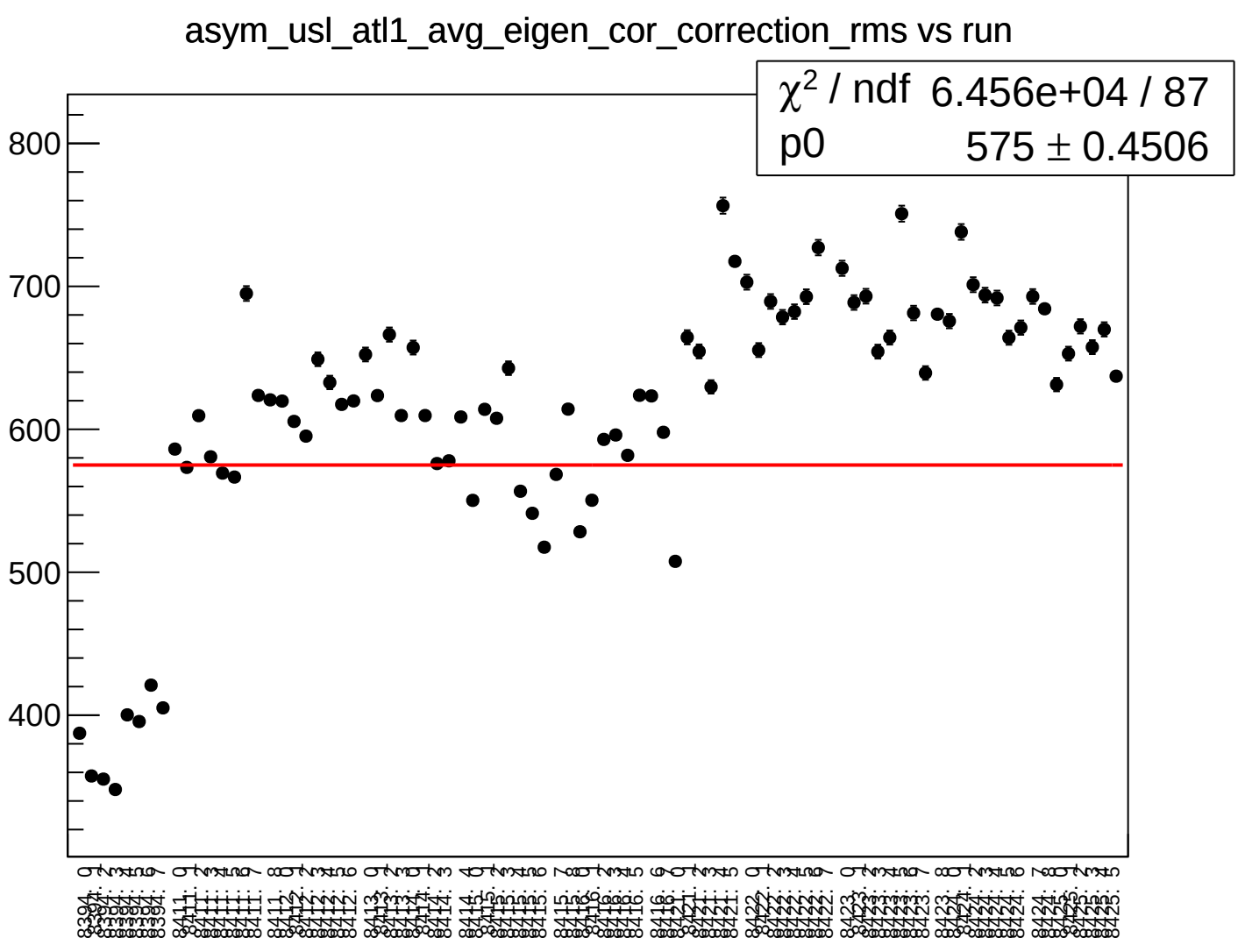

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 6.456e+04 / 87
p0 575 ± 0.4506
800
700
600
500
400

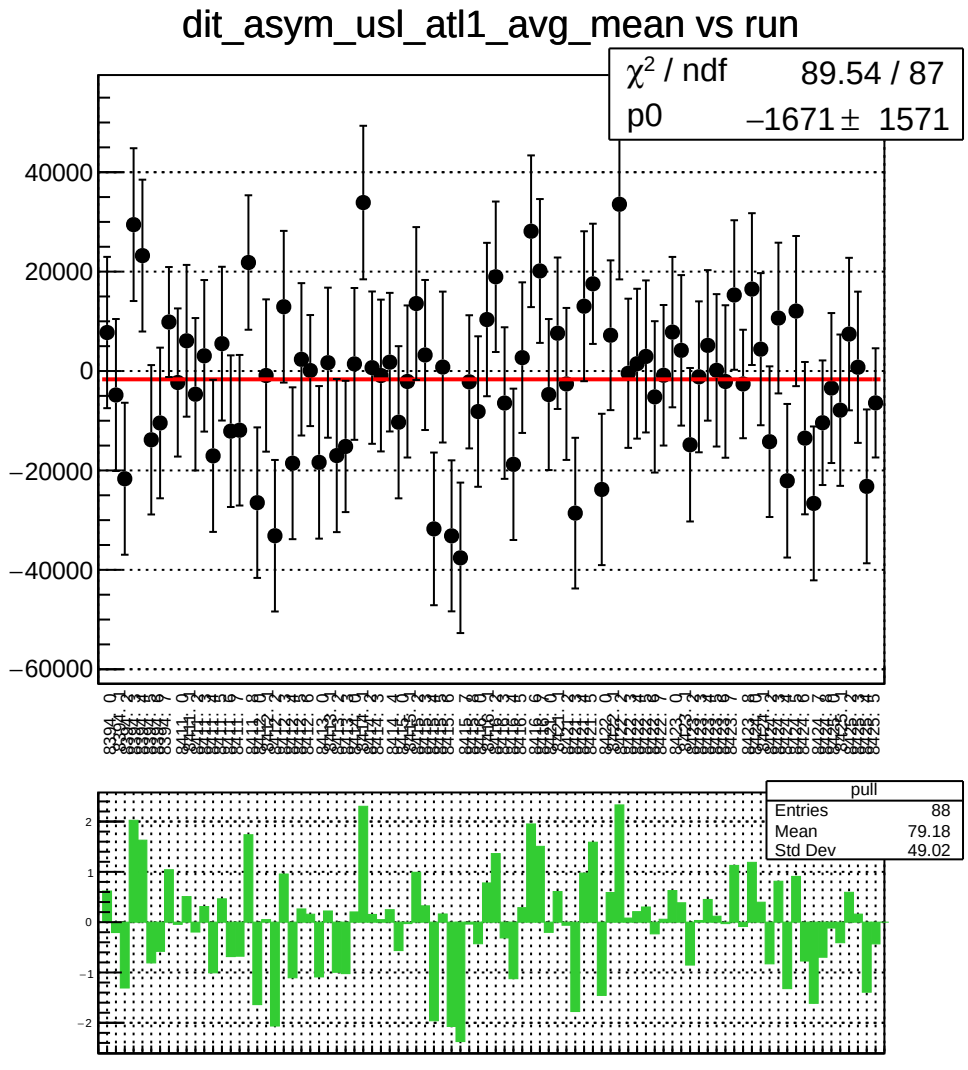

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 88.82 / 87
p0 −1735 ± 1569
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 79.52
Std Dev 48.68
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.008295
Std Dev 1.005
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

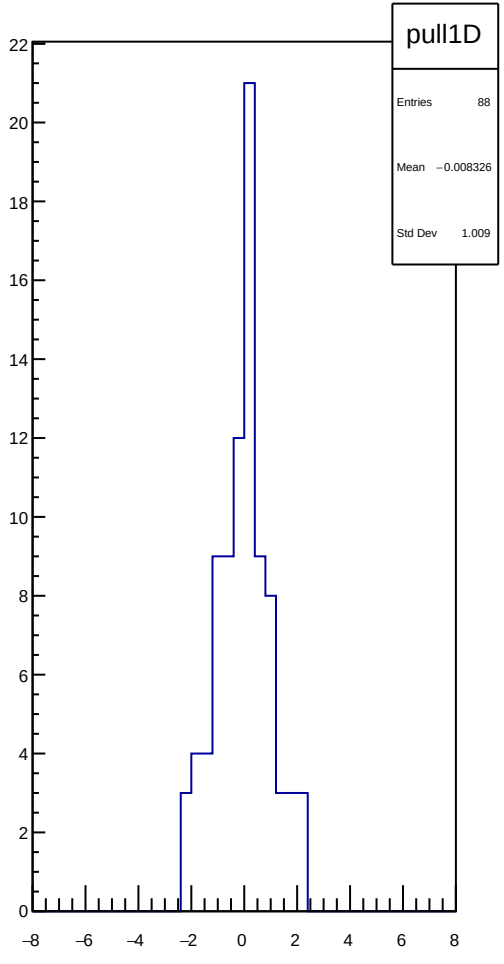

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 103.6 / 87
p0 1444 ± 1.11
1480
1470
1460
1450
1440
1430
1420
1410
1400

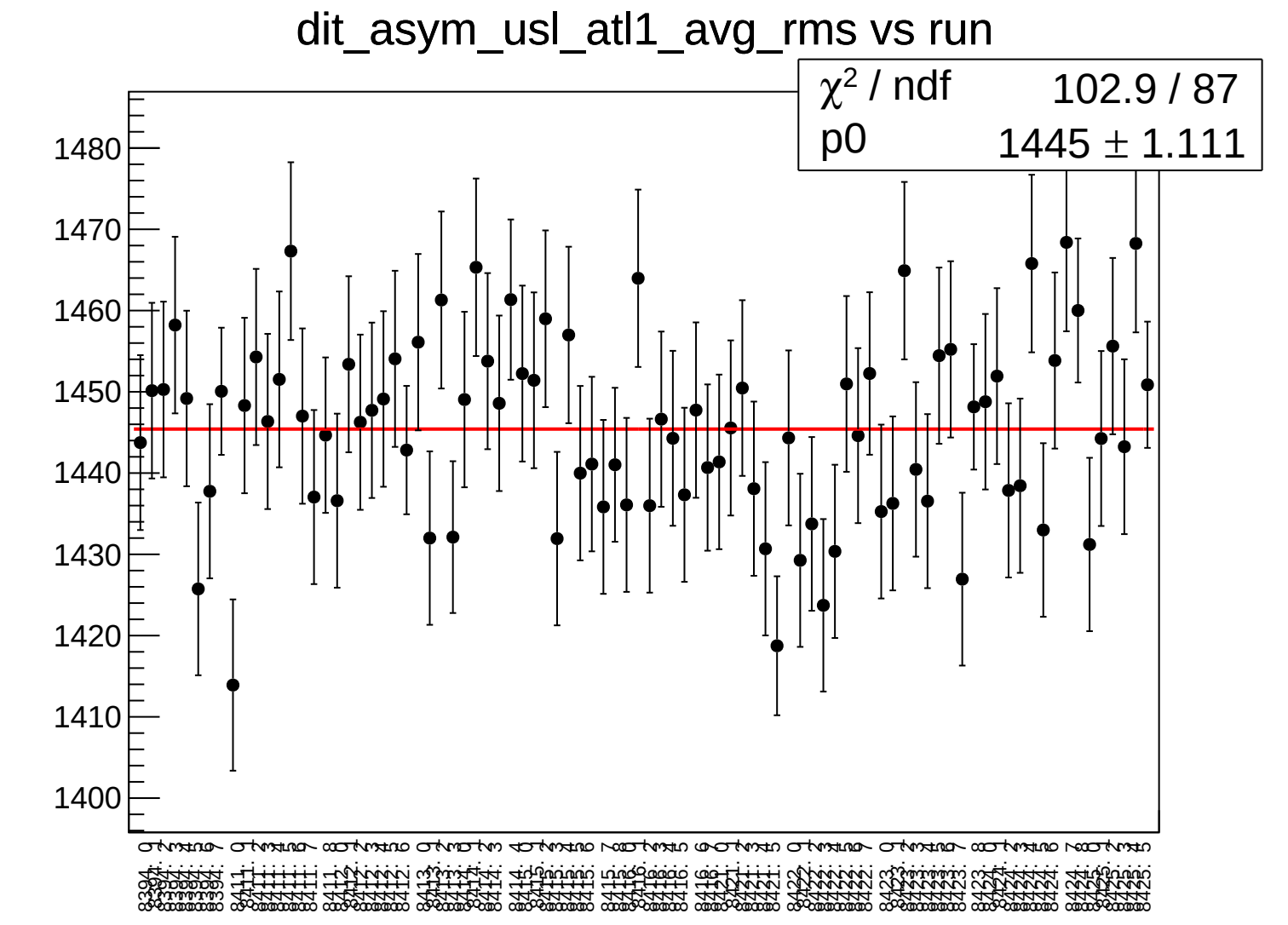

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 66.89 / 87
p0 −507.6 ± 637.3
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 9.879
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

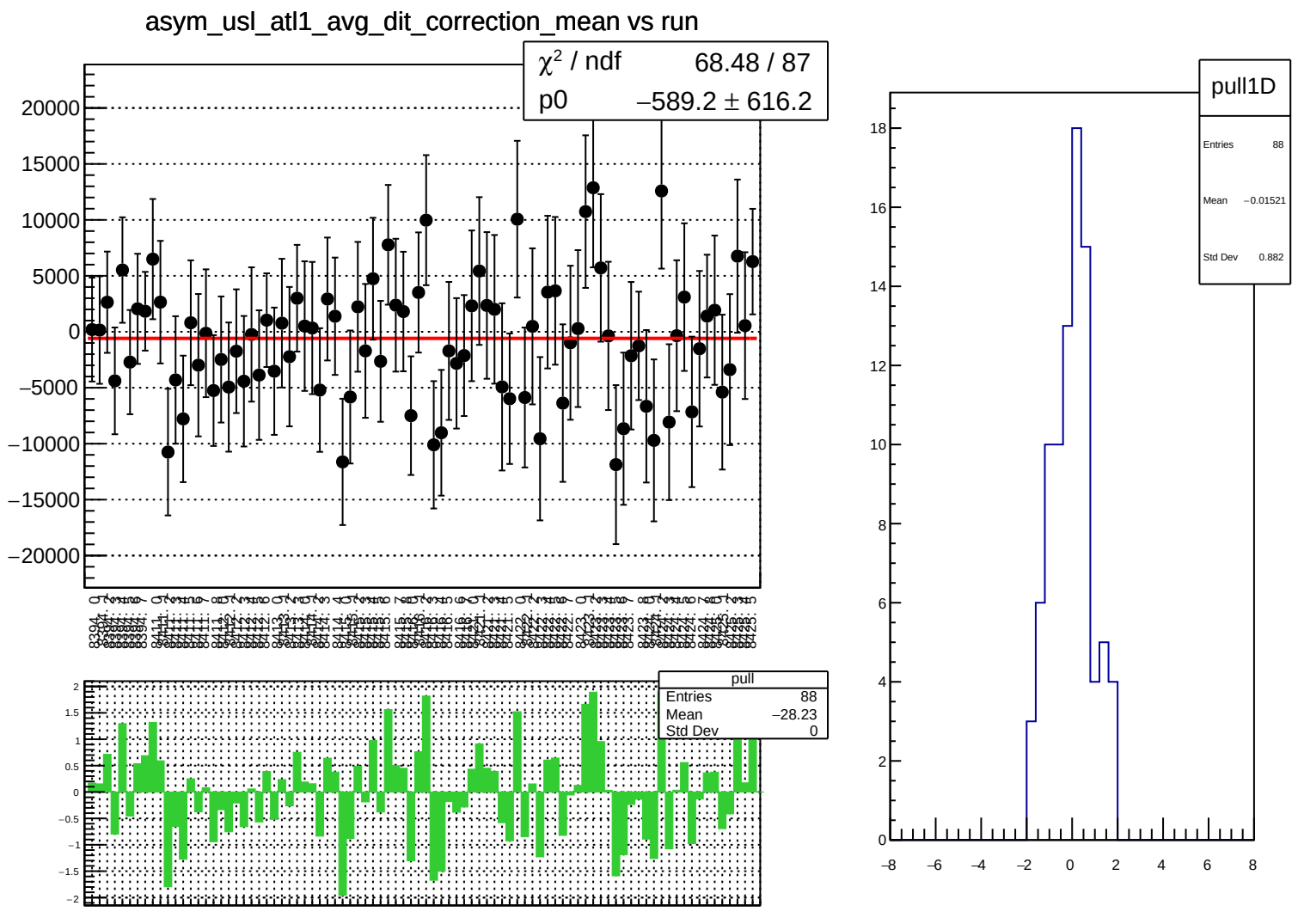

pull1D
Entries 88
Mean −0.02743
Std Dev 0.8714
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

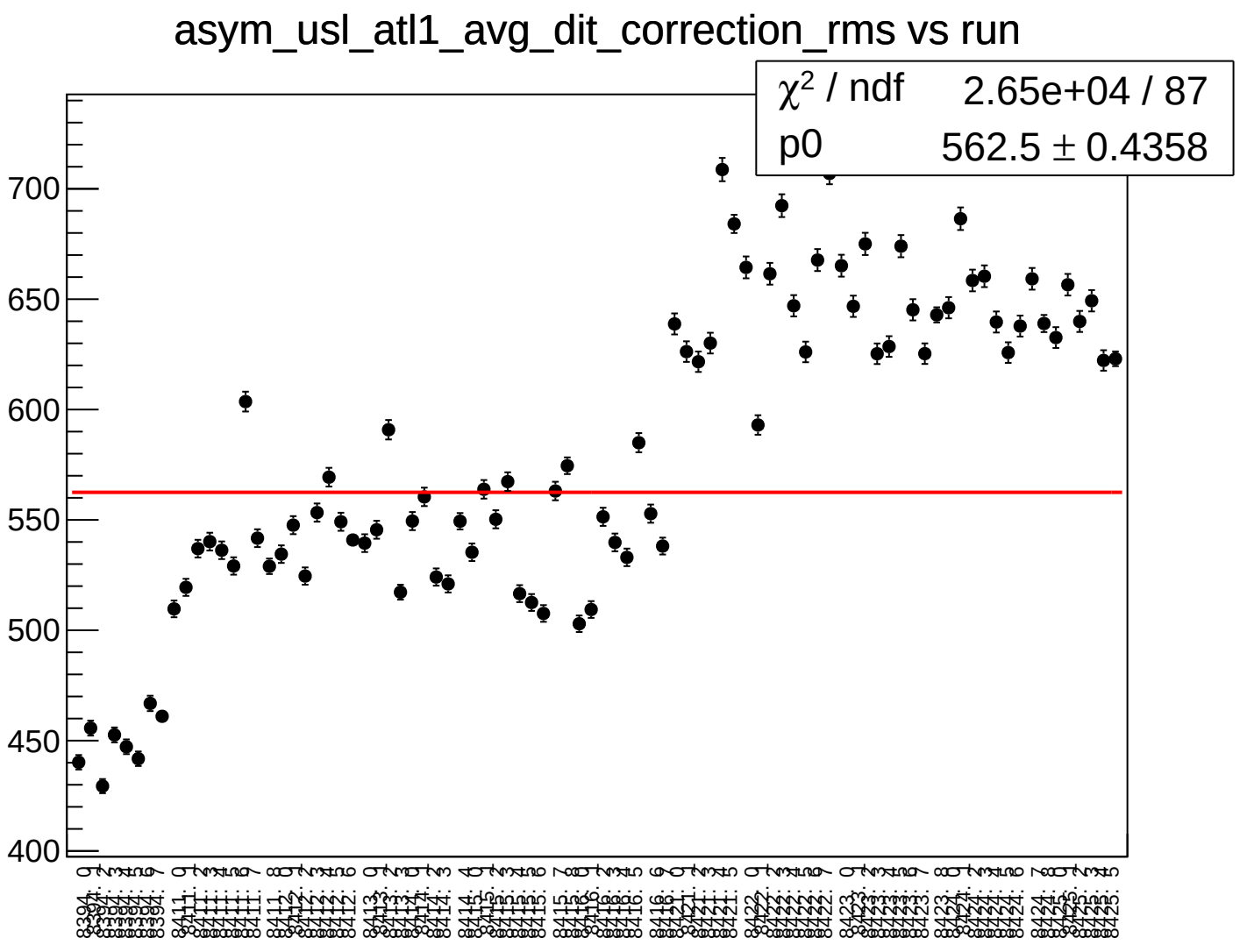

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 6.456e+04 / 87
p0 575 ± 0.4506
800
700
600
500
400

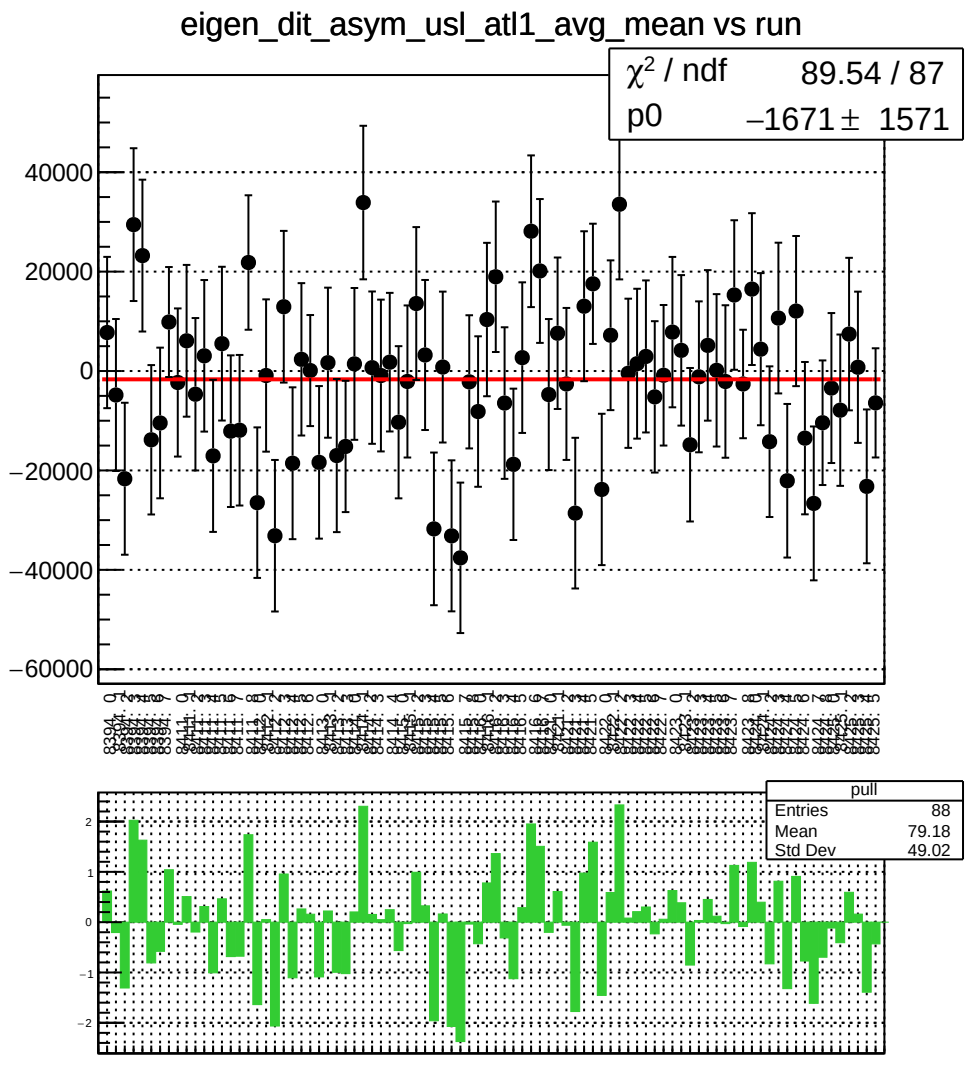

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 89.54 / 87
p0 −1671 ± 1571
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 79.18
Std Dev 49.02
2
1
0
−1
−2

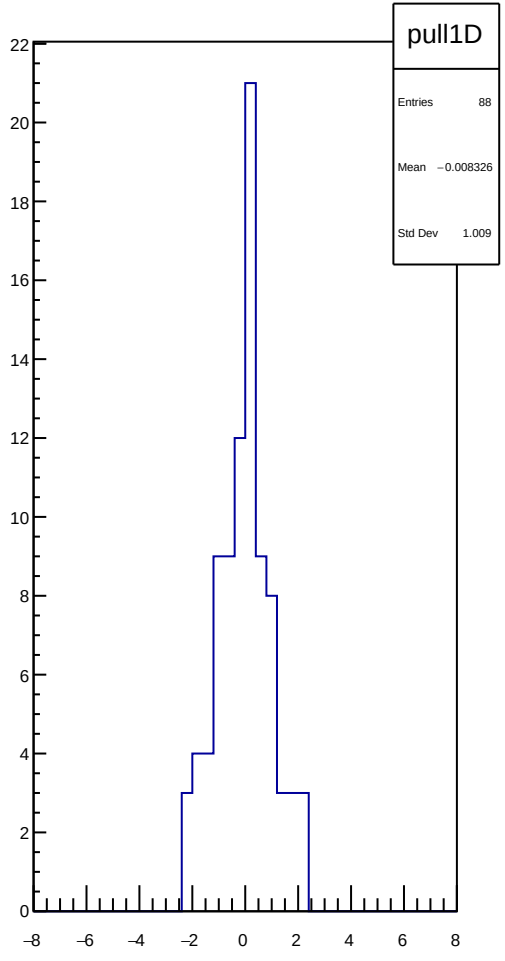

pull1D
Entries 88
Mean −0.008326
Std Dev 1.009
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

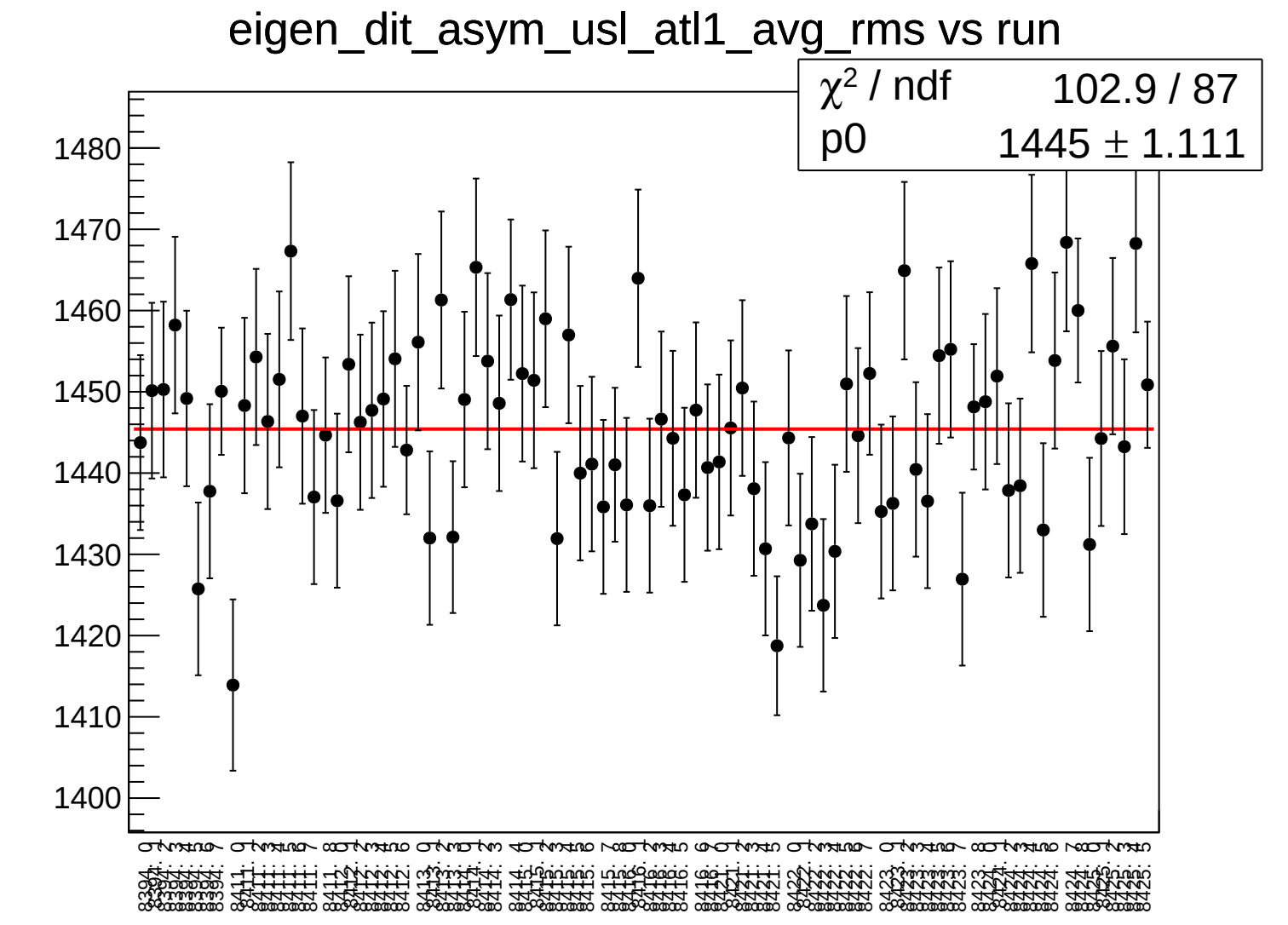

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 102.9 / 87
p0 1445 ± 1.111
1480
1470
1460
1450
1440
1430
1420
1410
1400

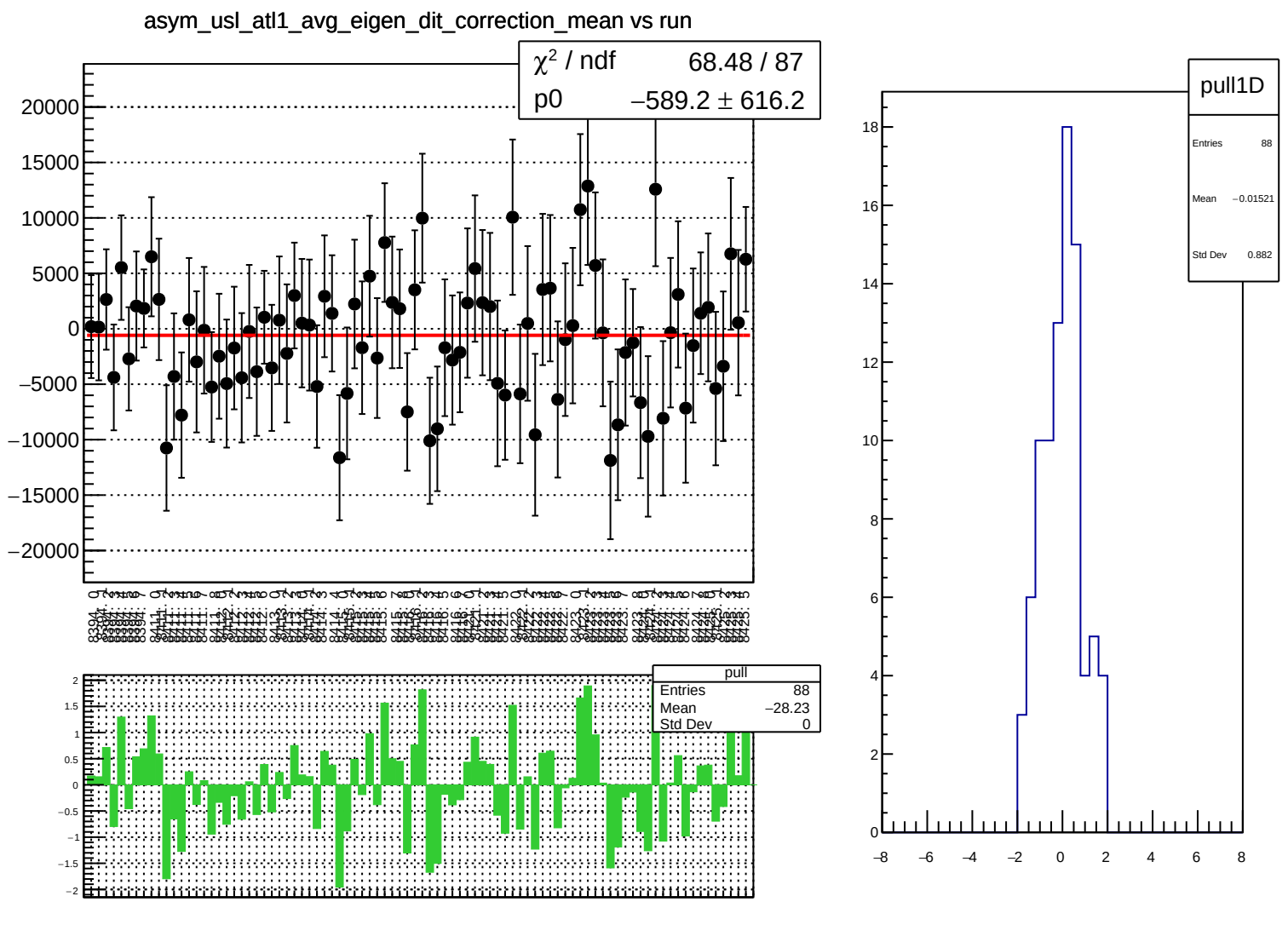

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 68.48 / 87
p0 −589.2 ± 616.2
pull
Entries 88
Mean −28.23
Std Dev 0
pull1D
Entries 88
Mean −0.01521
Std Dev 0.882

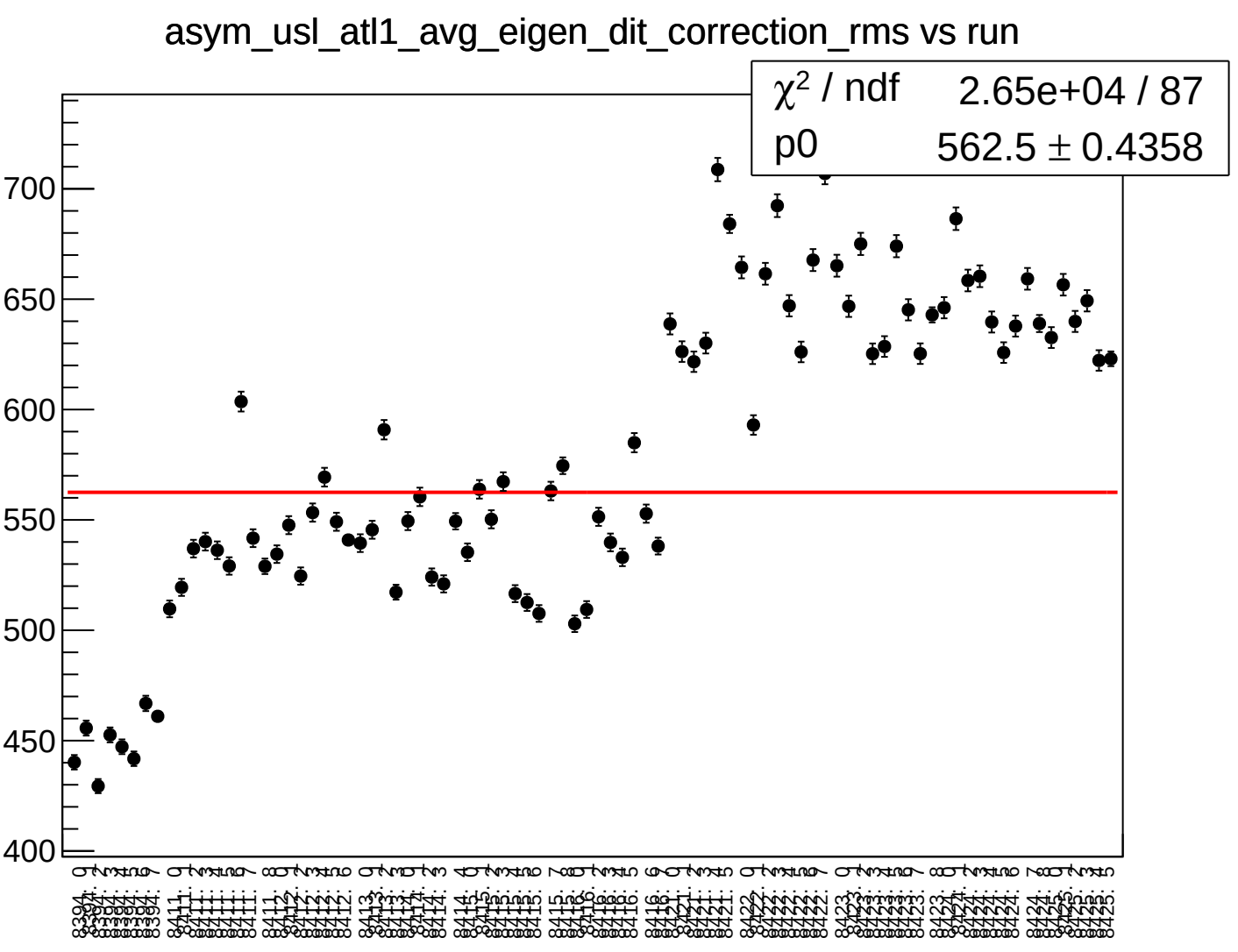

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 2.65e+04 / 87
p0 562.5 ± 0.4358
700
650
600
550
500
450
400

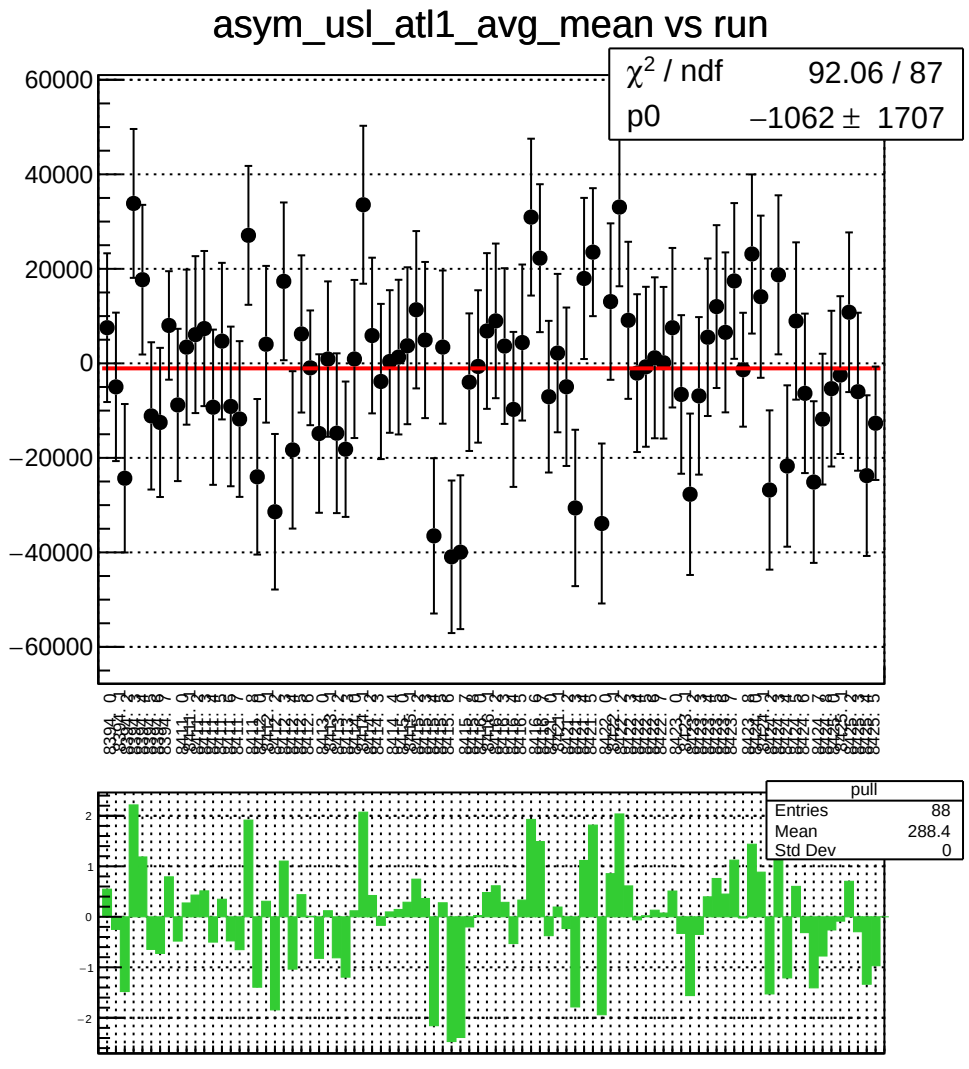

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 89.54 / 87
p0 −1671 ± 1571
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 79.18
Std Dev 49.02
2
1
0
−1
−2

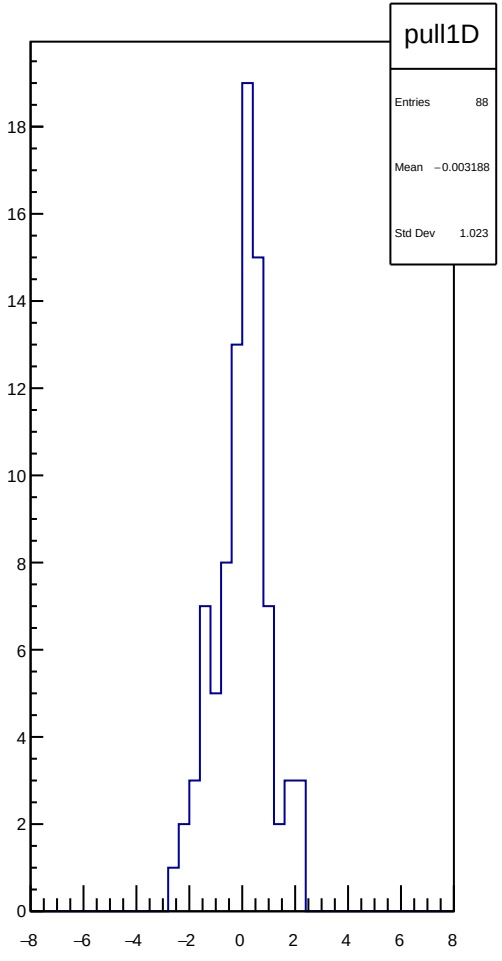

pull1D
Entries 88
Mean −0.008326
Std Dev 1.009
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

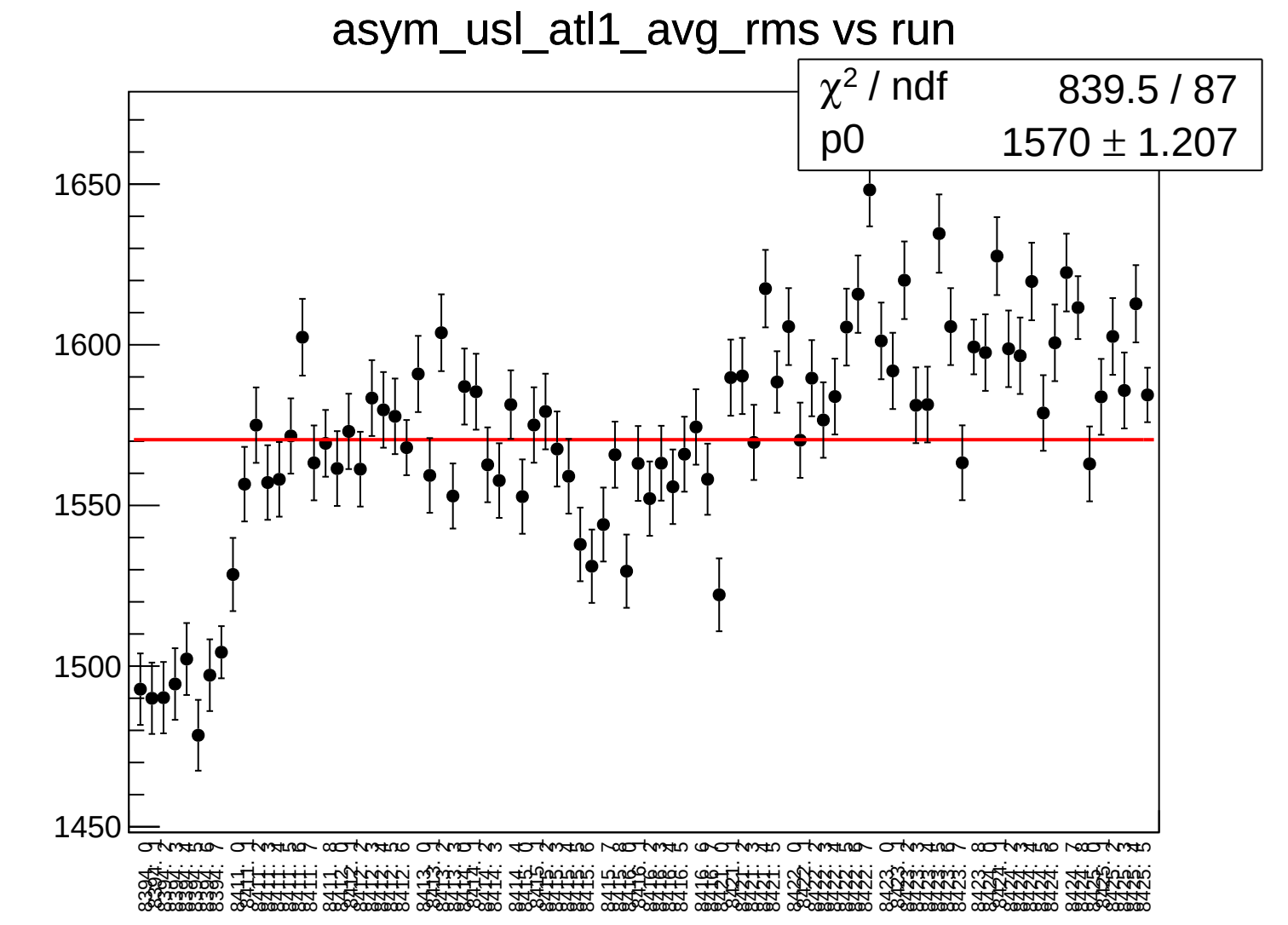

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 102.9 / 87
p0 1445 ± 1.111
1480
1470
1460
1450
1440
1430
1420
1410
1400

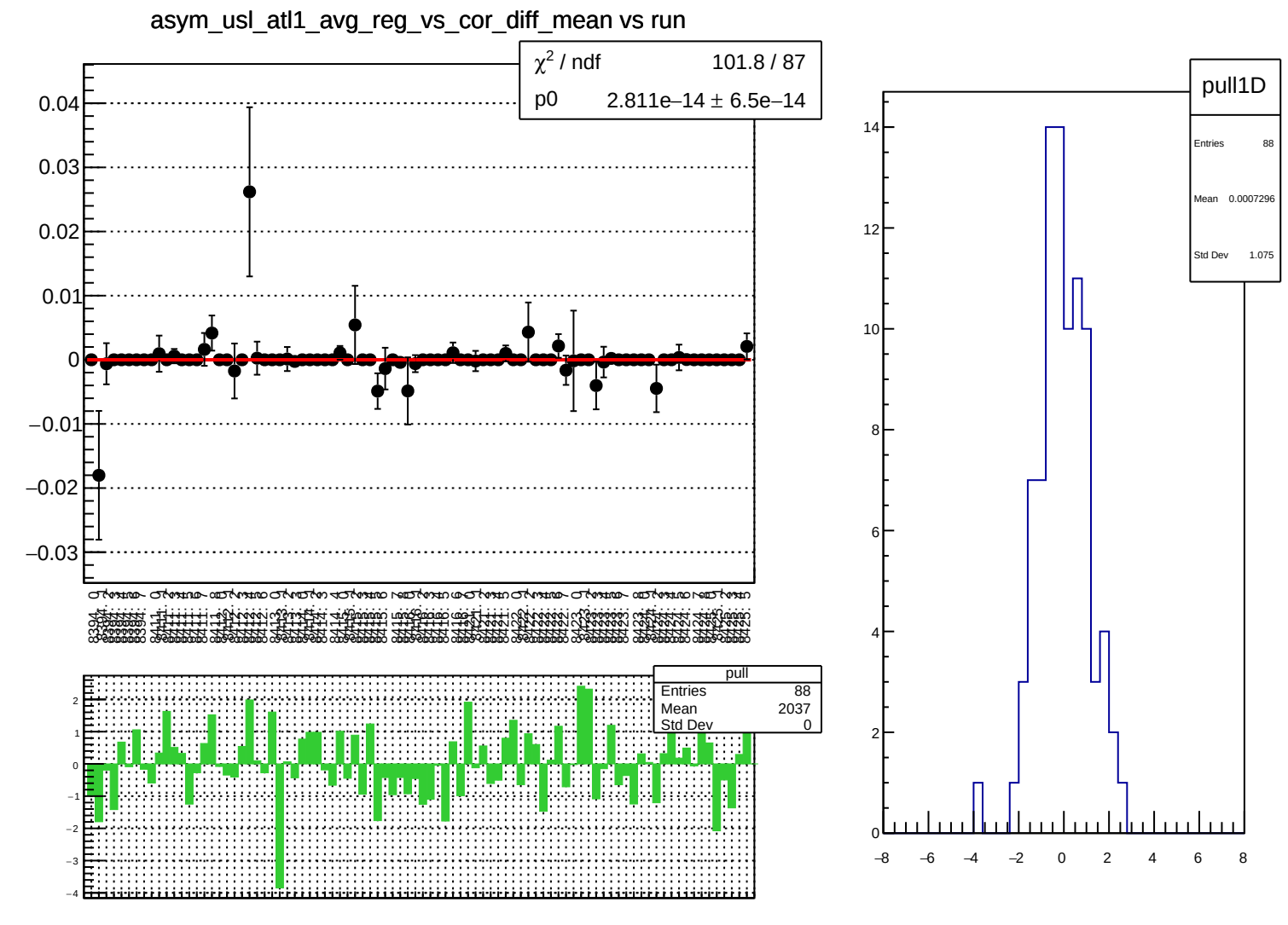

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 68.48 / 87
p0 −589.2 ± 616.2
pull
Entries 88
Mean −28.23
Std Dev 0
pull1D
Entries 88
Mean −0.01521
Std Dev 0.882

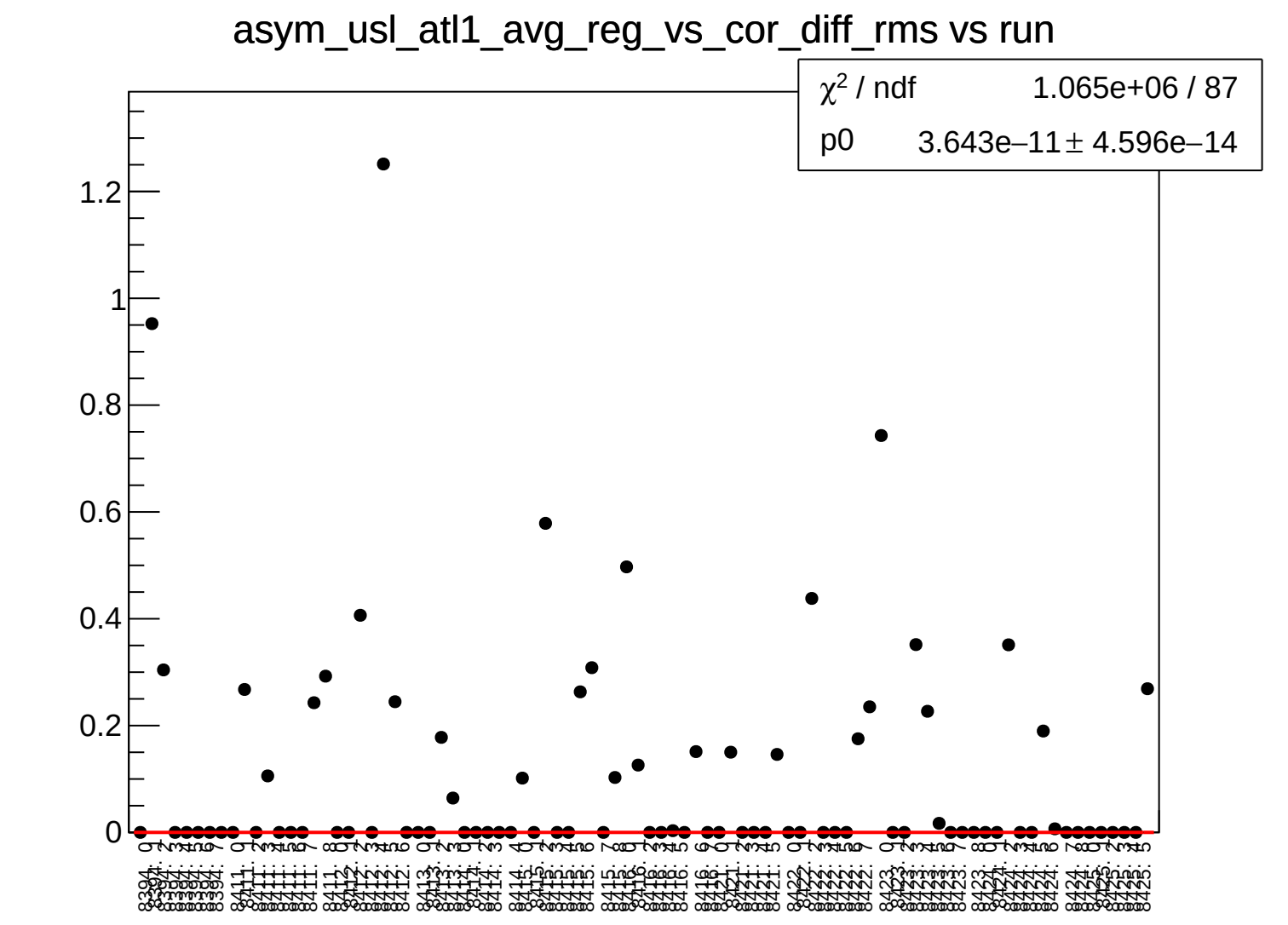

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.65e+04 / 87
p0 562.5 ± 0.4358
700
650
600
550
500
450
400

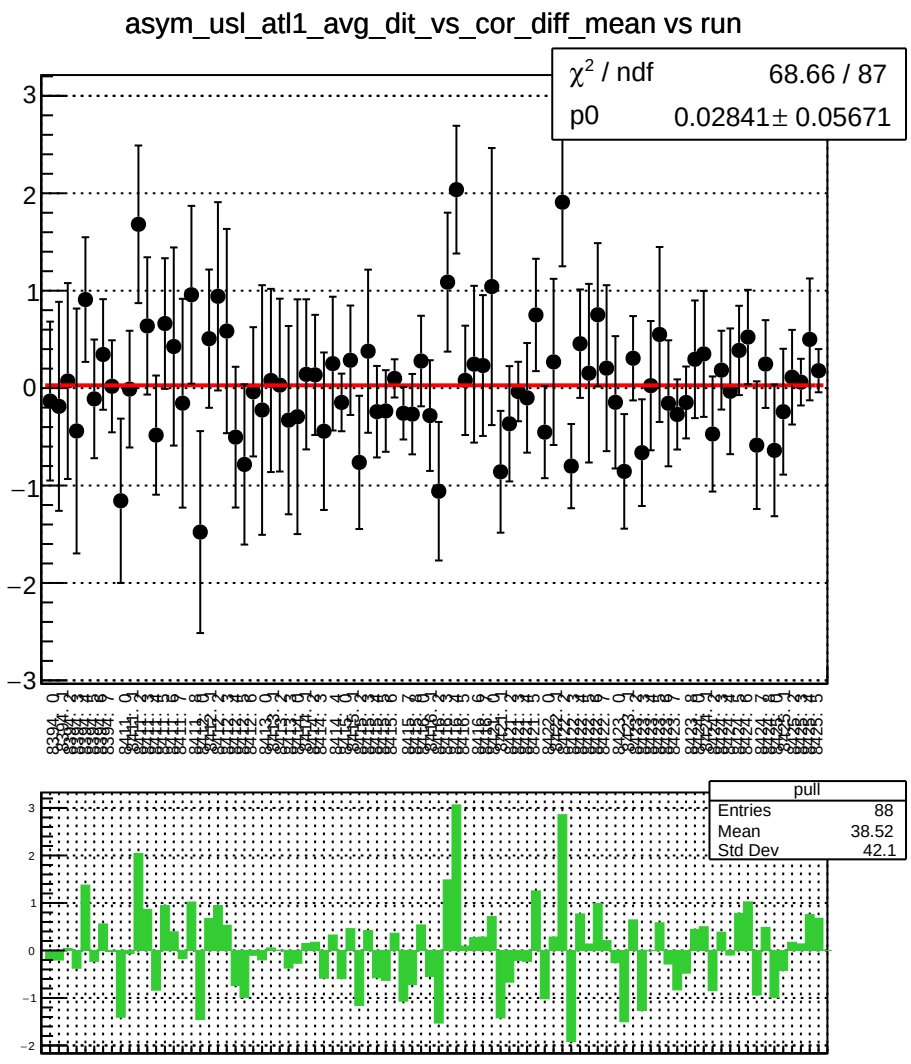

asym_usl_atl1_avg_mean vs run
χ² / ndf 92.06 / 87
p0 −1062 ± 1707
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 288.4
Std Dev 0
2
1
0
−1
−2

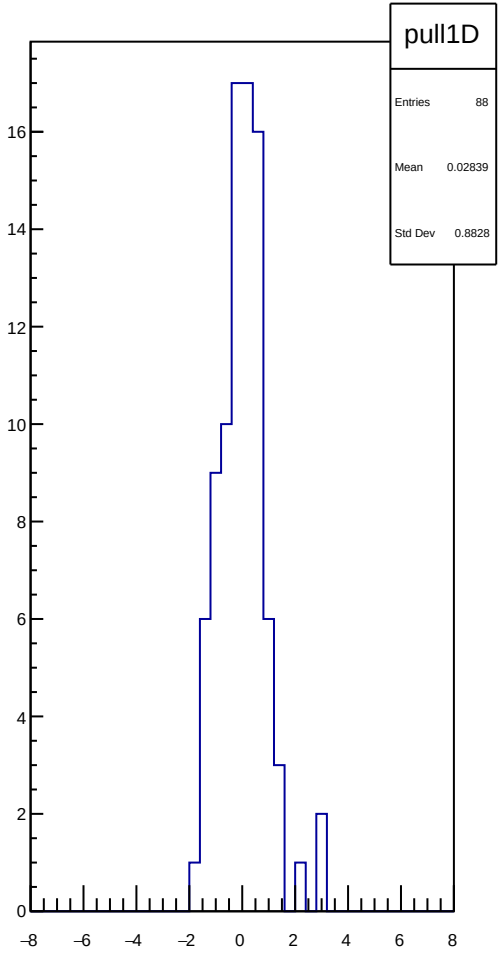

pull1D
Entries 88
Mean −0.003188
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

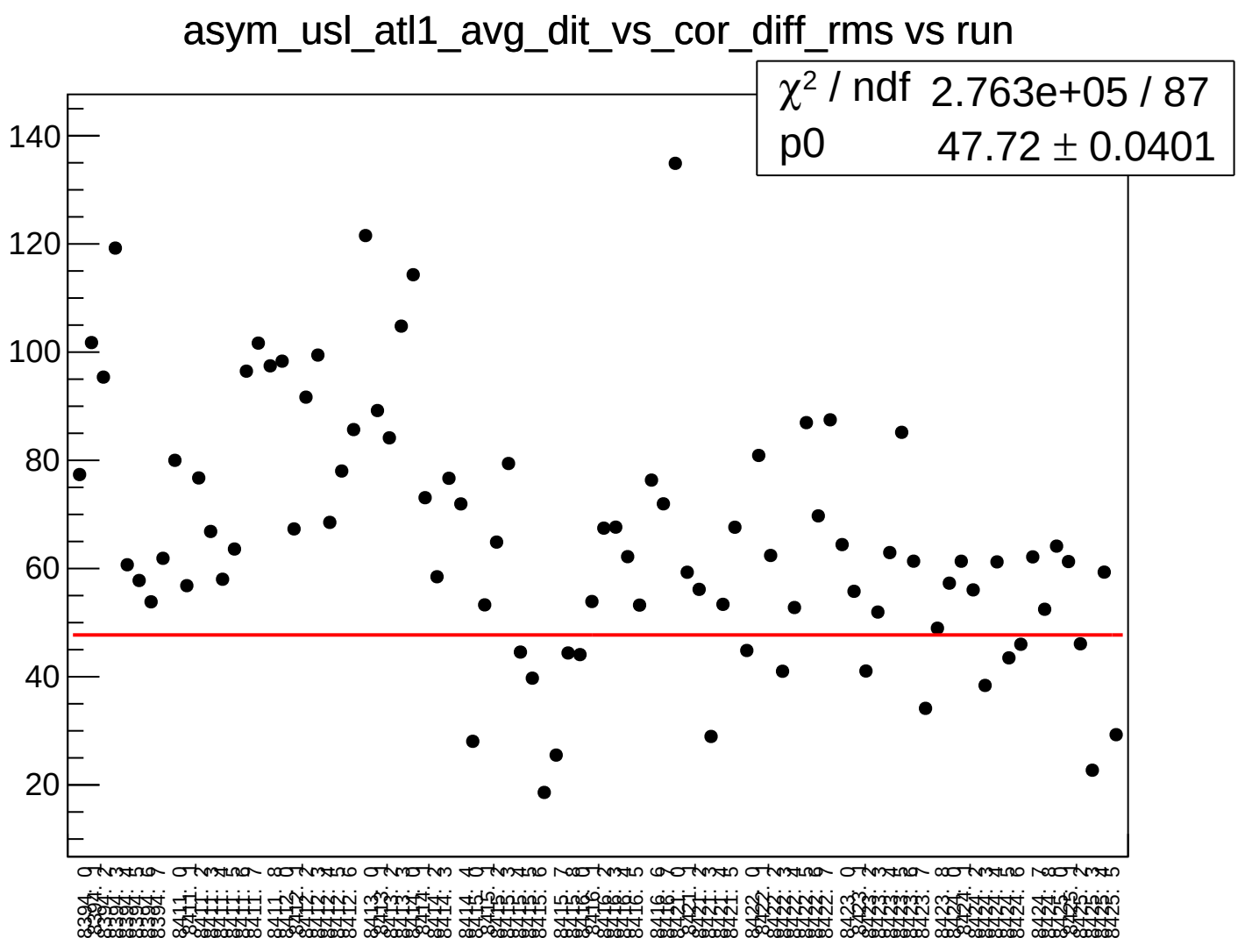

asym_usl_atl1_avg_rms vs run
χ² / ndf 839.5 / 87
p0 1570 ± 1.207
1650
1600
1550
1500
1450

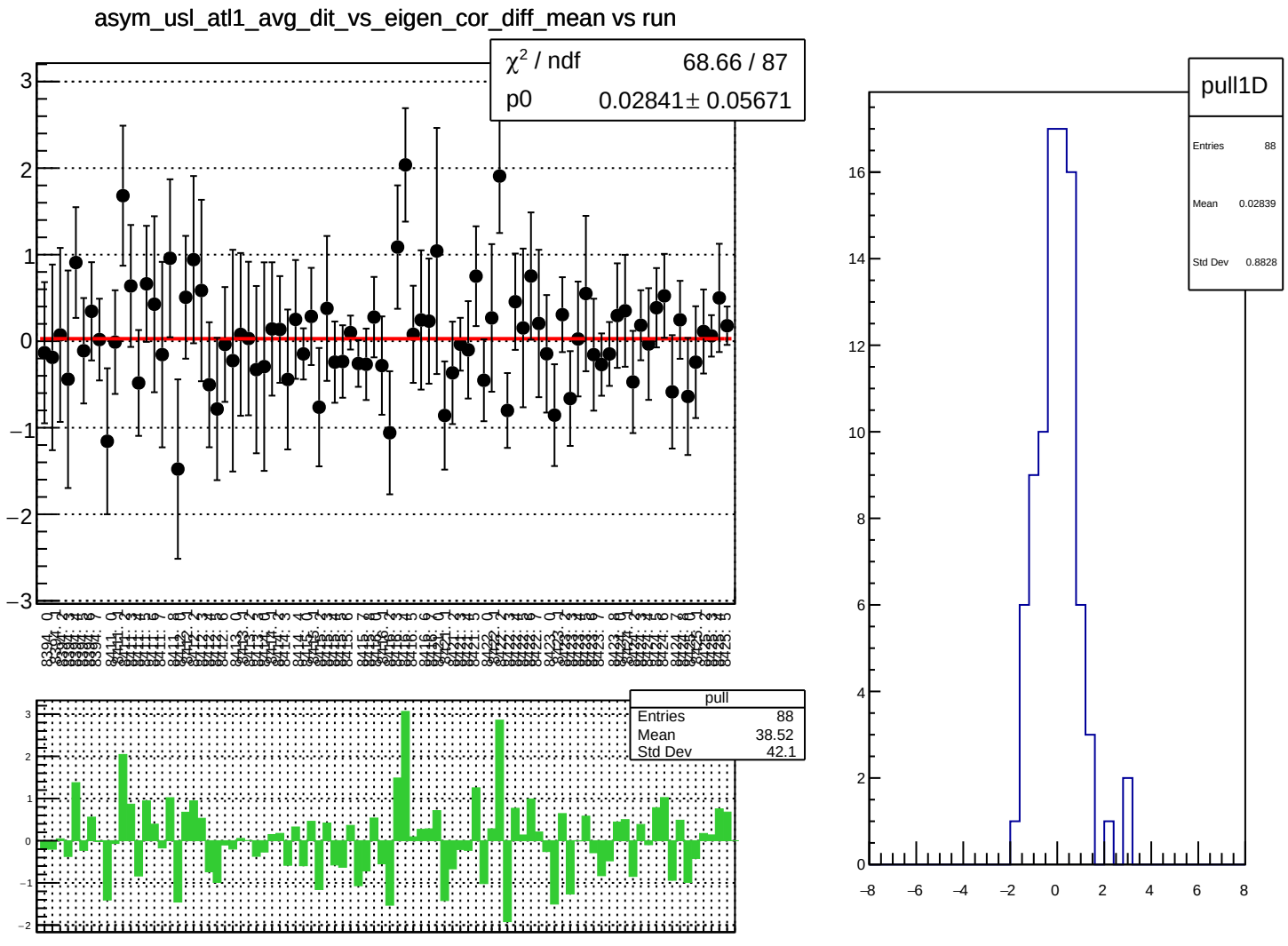

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 101.8 / 87
p0 2.811e–14 ± 6.5e–14
0.04
0.03
0.02
0.01
0
–0.01
–0.02
–0.03
pull
Entries 88
Mean 2037
Std Dev 0
2
1
0
–1
–2
–3
–4
pull1D
Entries 88
Mean 0.0007296
Std Dev 1.075
14
12
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

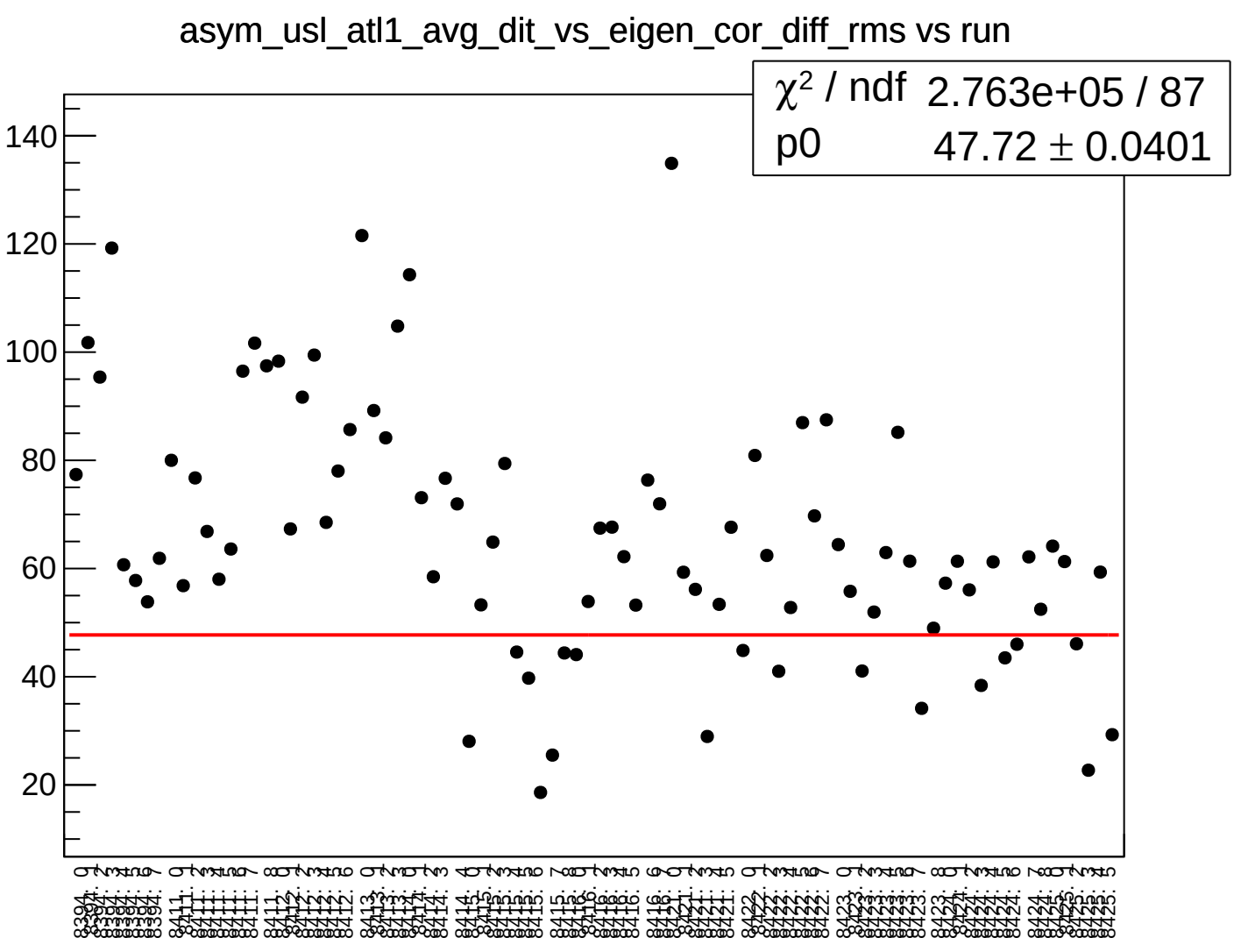

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.065e+06 / 87
p0 3.643e−11 ± 4.596e−14
1.2
1
0.8
0.6
0.4
0.2
0

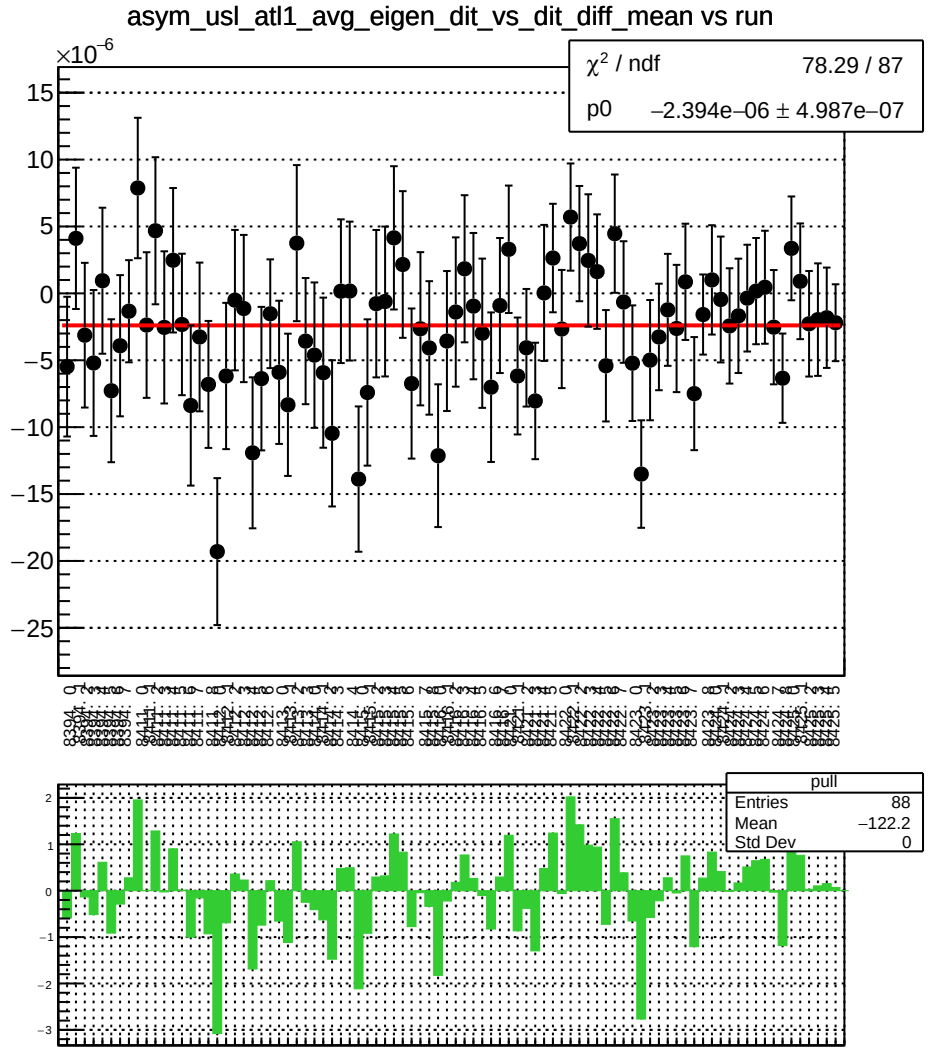

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 68.66 / 87
p0 0.02841± 0.05671
pull
Entries 88
Mean 38.52
Std Dev 42.1

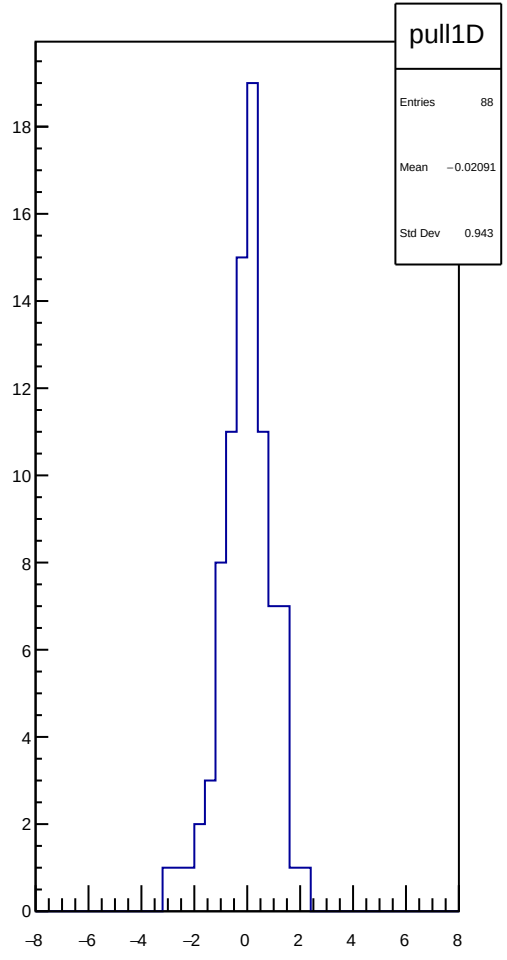

pull1D
Entries 88
Mean 0.02839
Std Dev 0.8828

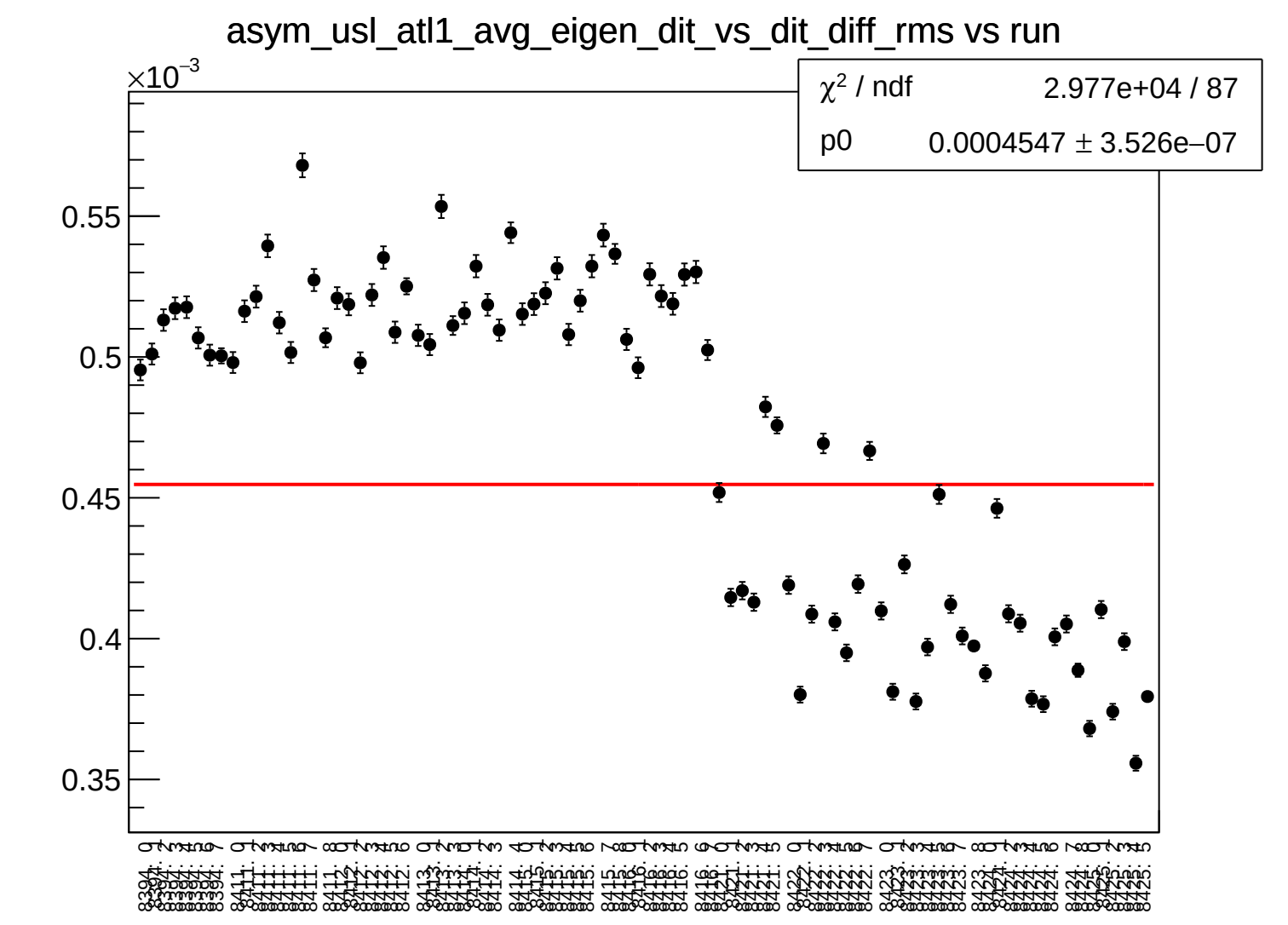

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.763e+05 / 87
p0 47.72 ± 0.0401
140
120
100
80
60
40
20

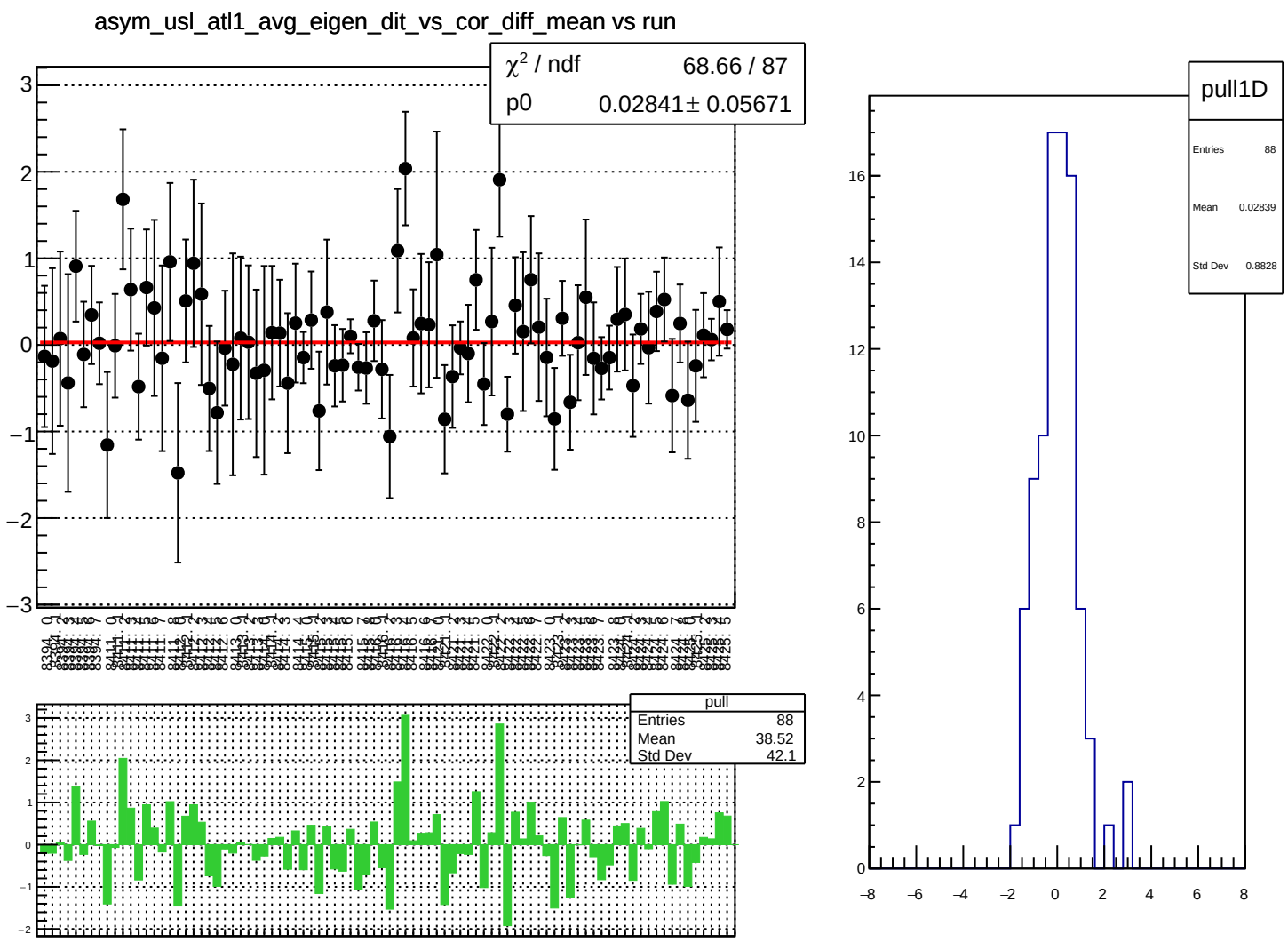

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.66 / 87
p0 0.02841± 0.05671
pull
Entries 88
Mean 38.52
Std Dev 42.1
pull1D
Entries 88
Mean 0.02839
Std Dev 0.8828

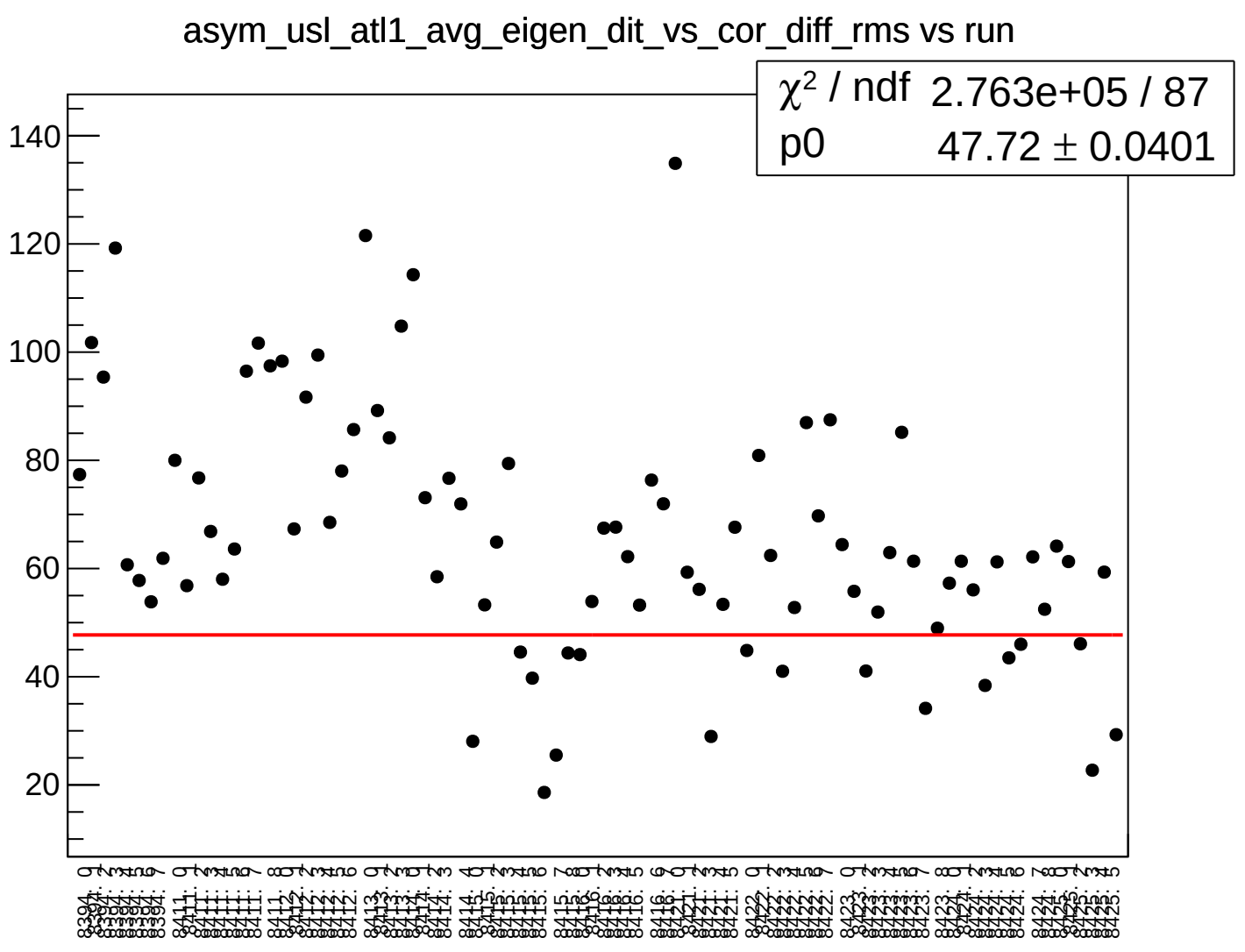

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.763e+05 / 87
p0 47.72 ± 0.0401
140
120
100
80
60
40
20

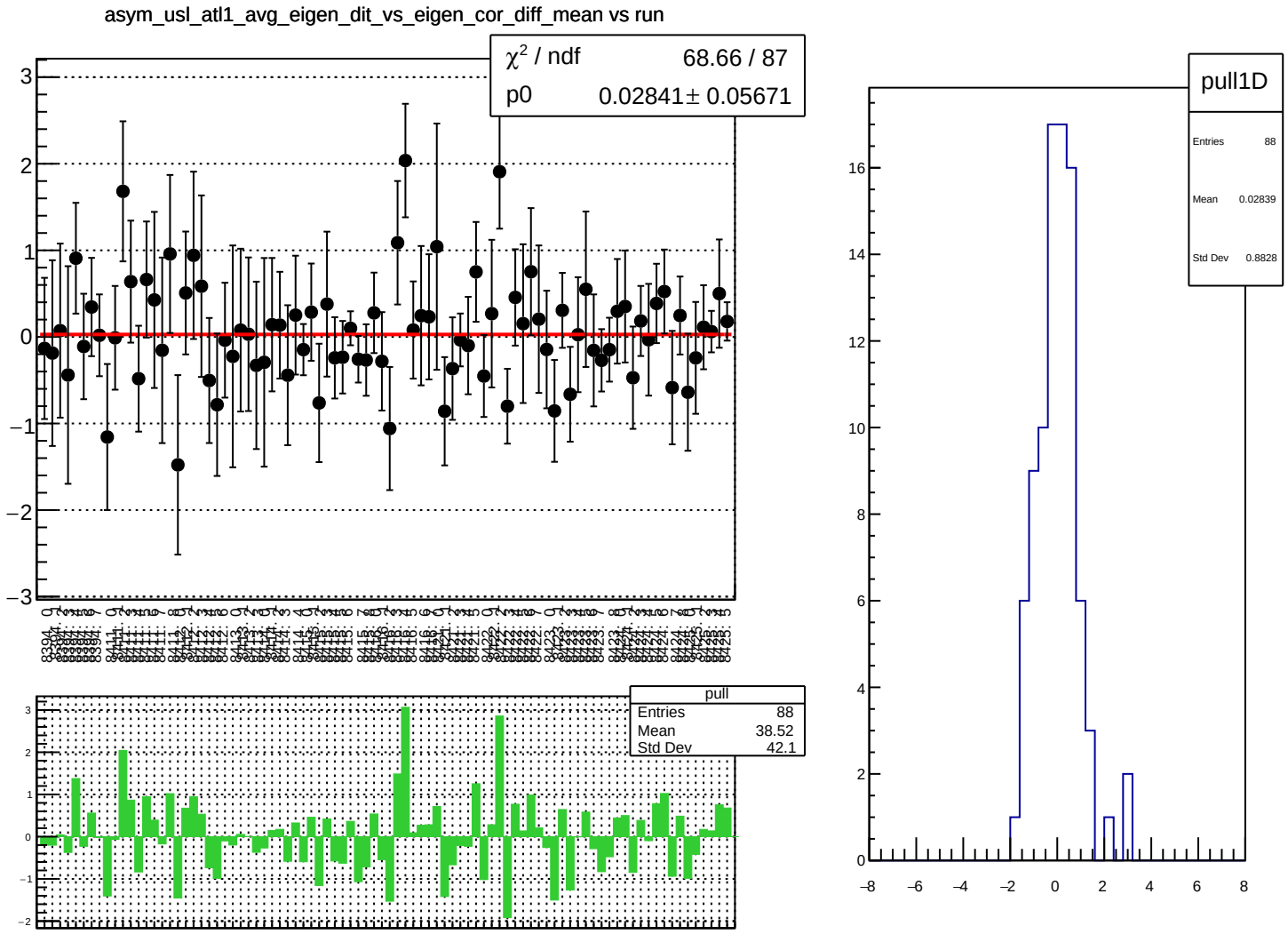

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 78.29 / 87
p0 −2.394e−06 ± 4.987e−07
pull
Entries 88
Mean −122.2
Std Dev 0

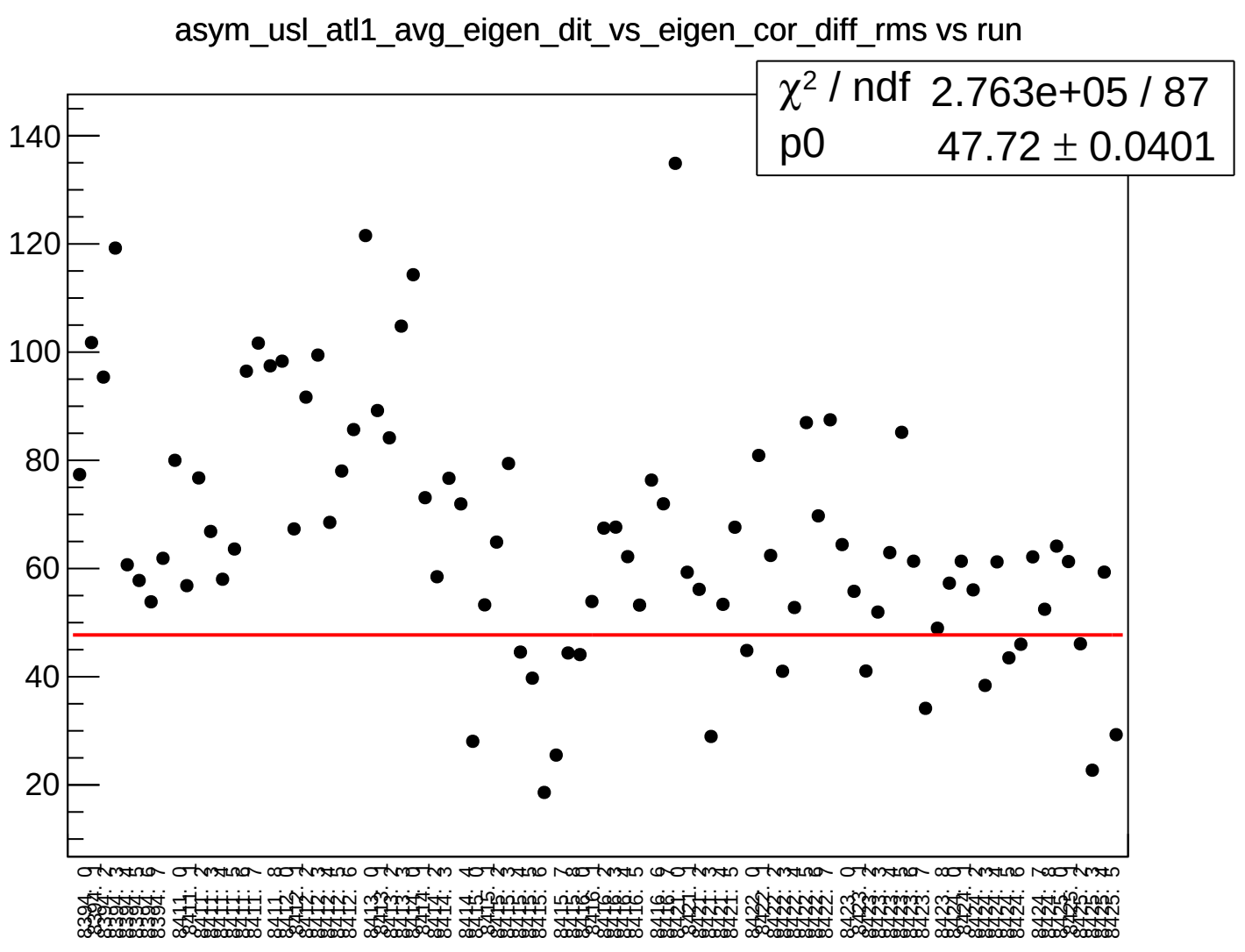

pull1D
Entries 88
Mean −0.02091
Std Dev 0.943

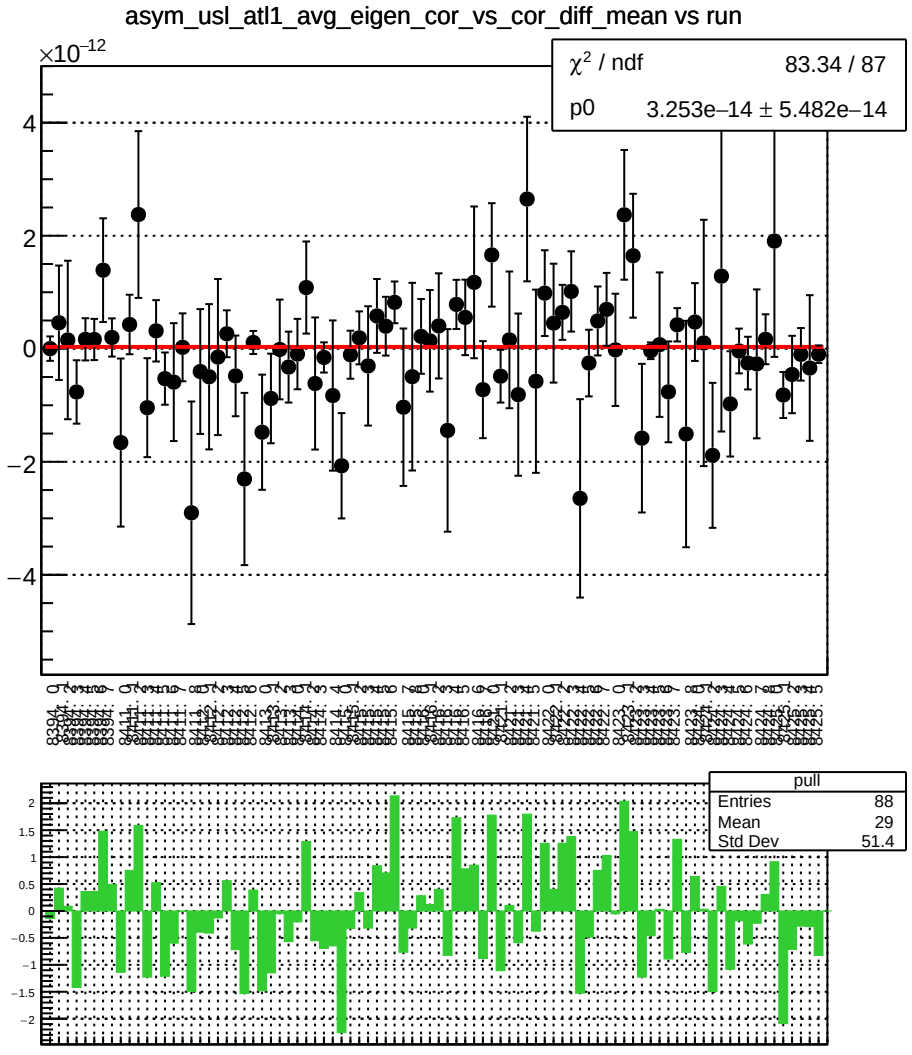

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 2.977e+04 / 87
p0 0.0004547 ± 3.526e−07
0.55
0.5
0.45
0.4
0.35

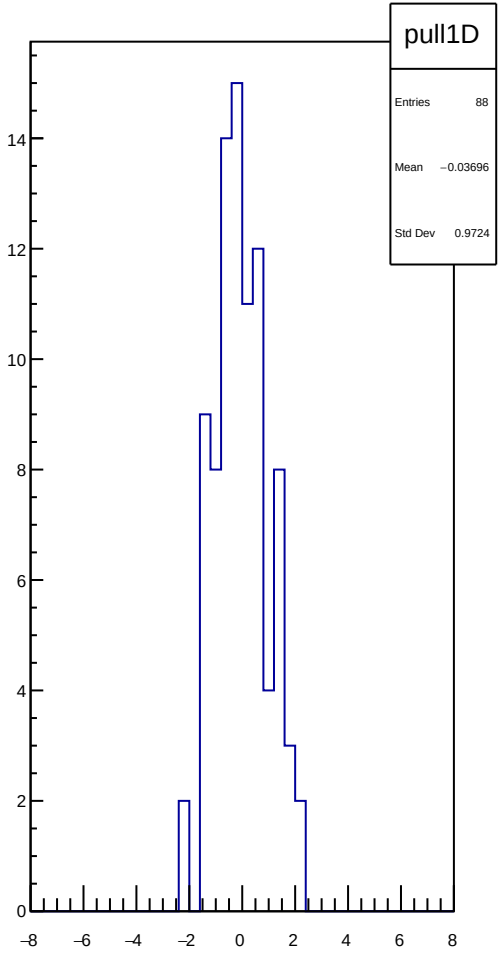

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.66 / 87
p0 0.02841± 0.05671
pull
Entries 88
Mean 38.52
Std Dev 42.1
pull1D
Entries 88
Mean 0.02839
Std Dev 0.8828

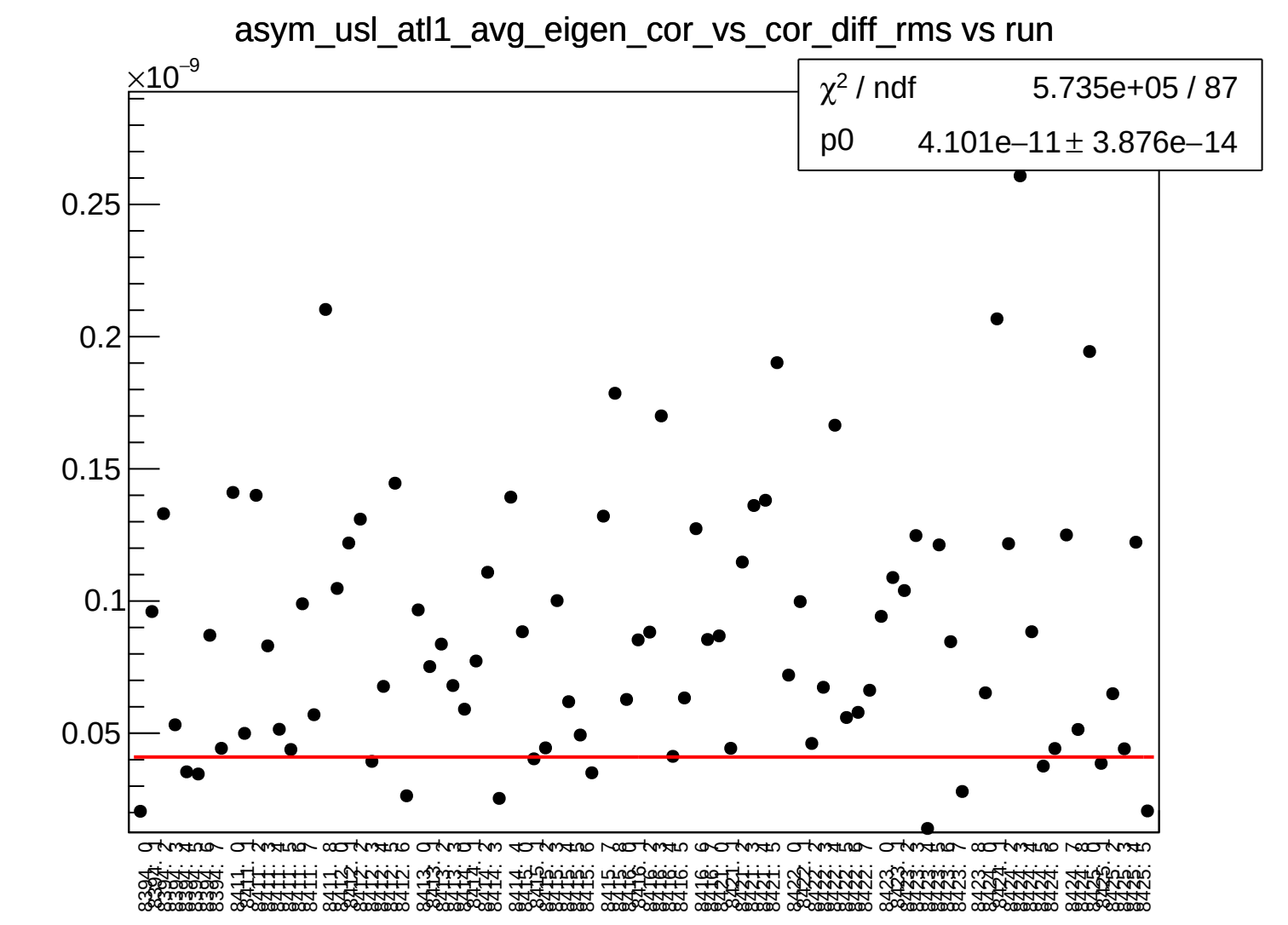

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.763e+05 / 87
p0 47.72 ± 0.0401
140
120
100
80
60
40
20

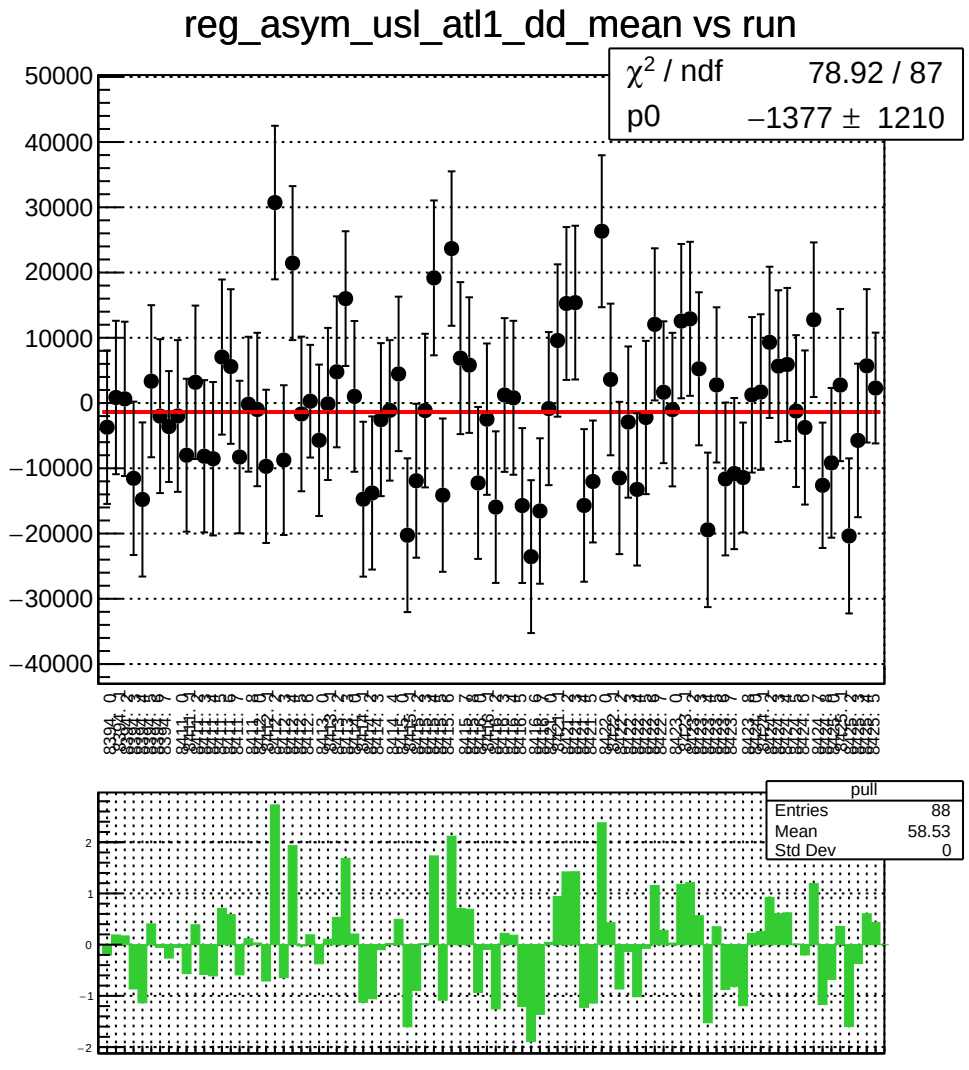

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.66 / 87
p0 0.02841± 0.05671
pull
Entries 88
Mean 38.52
Std Dev 42.1
pull1D
Entries 88
Mean 0.02839
Std Dev 0.8828

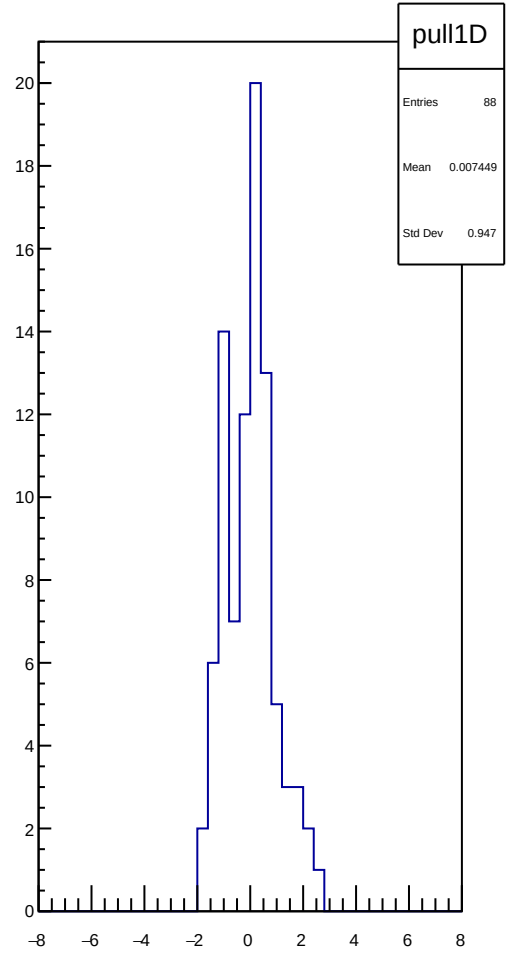

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.763e+05 / 87
p0 47.72 ± 0.0401
140
120
100
80
60
40
20

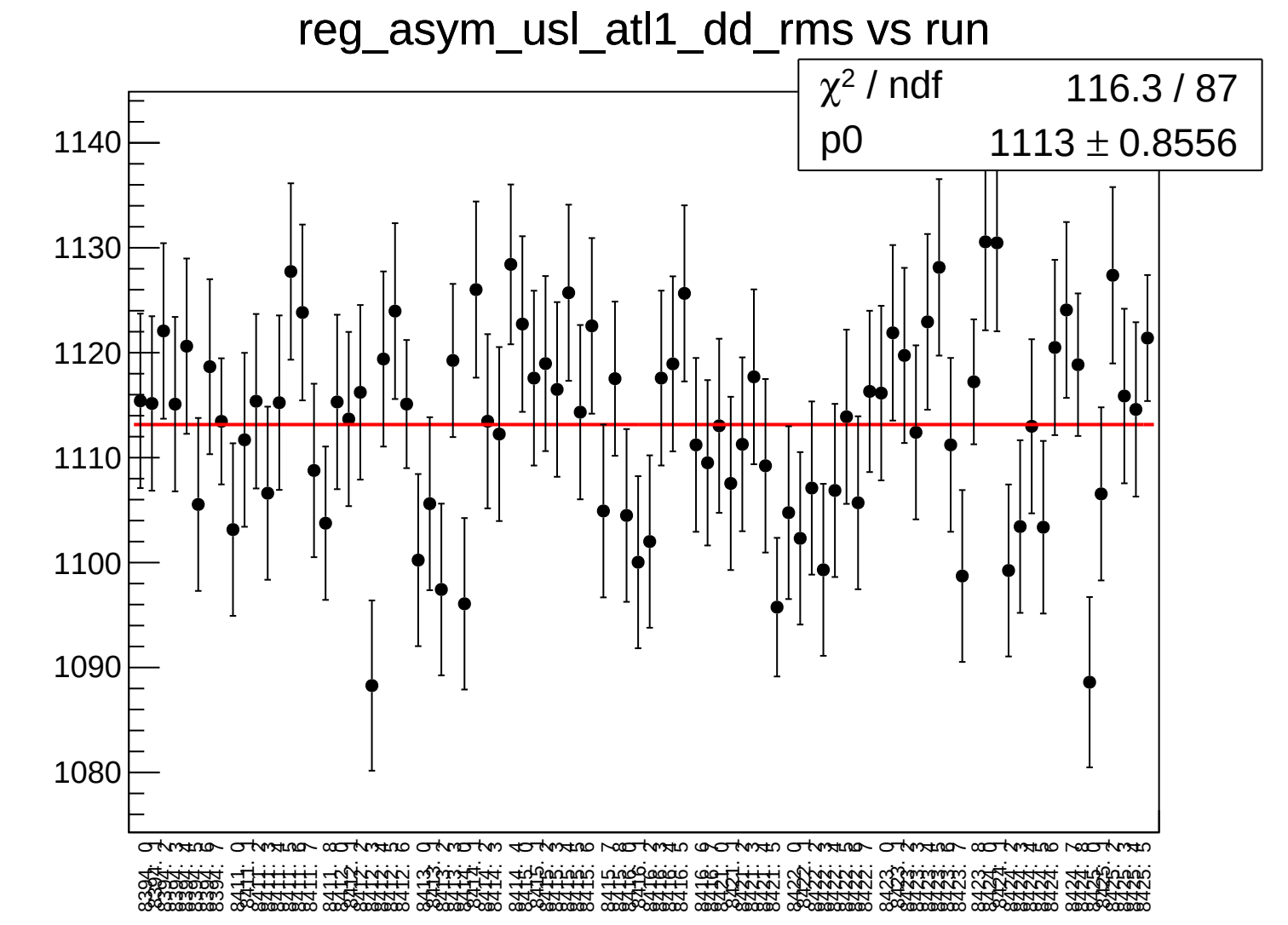

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.34 / 87
p0 3.253e−14 ± 5.482e−14
pull
Entries 88
Mean 29
Std Dev 51.4

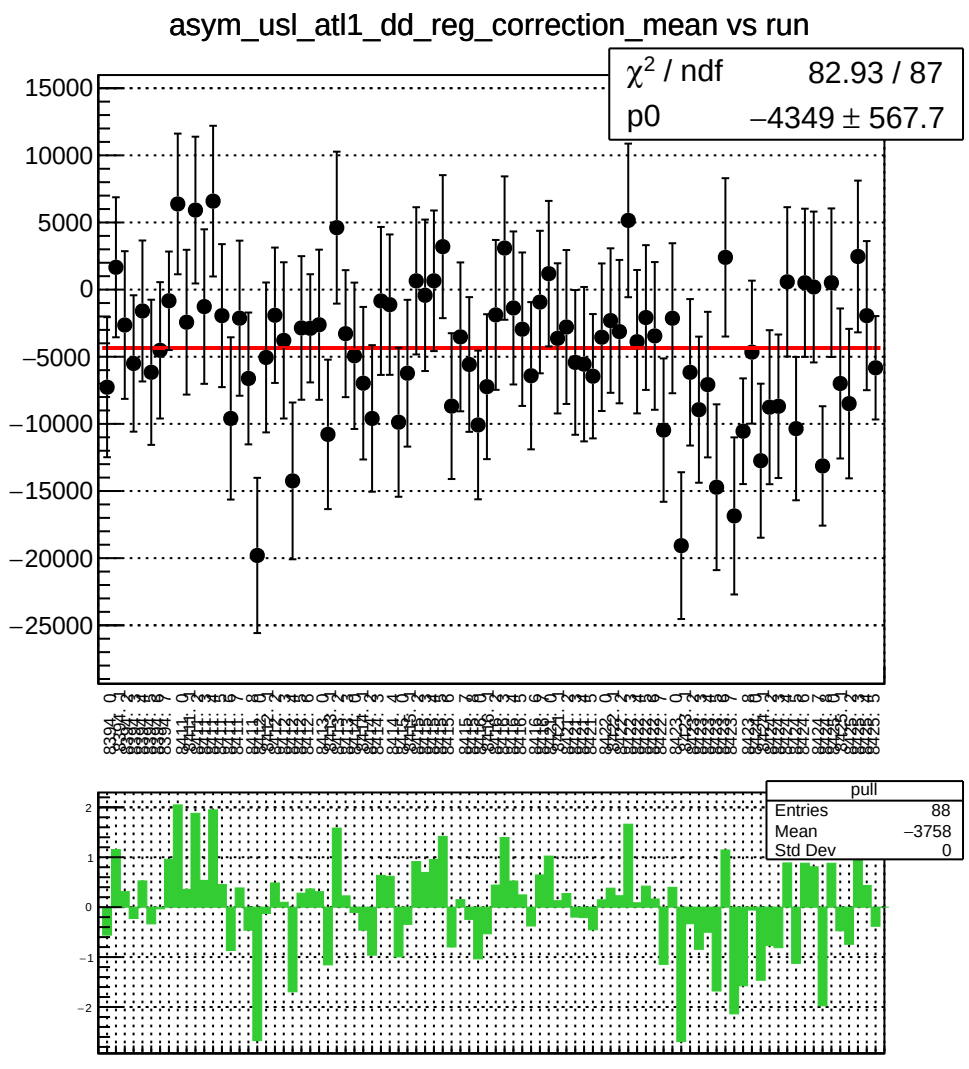

pull1D
Entries 88
Mean −0.03696
Std Dev 0.9724

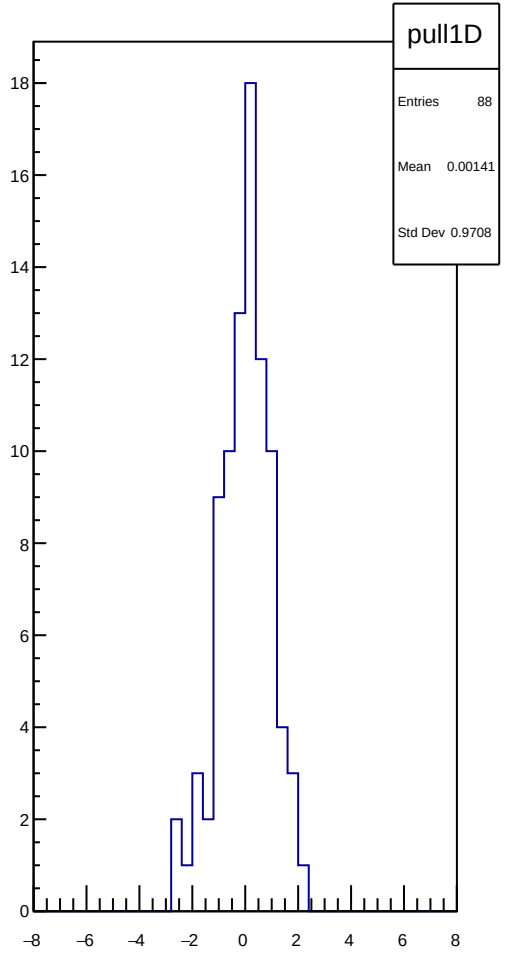

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.735e+05 / 87
p0 4.101e−11 ± 3.876e−14
0.25
0.2
0.15
0.1
0.05

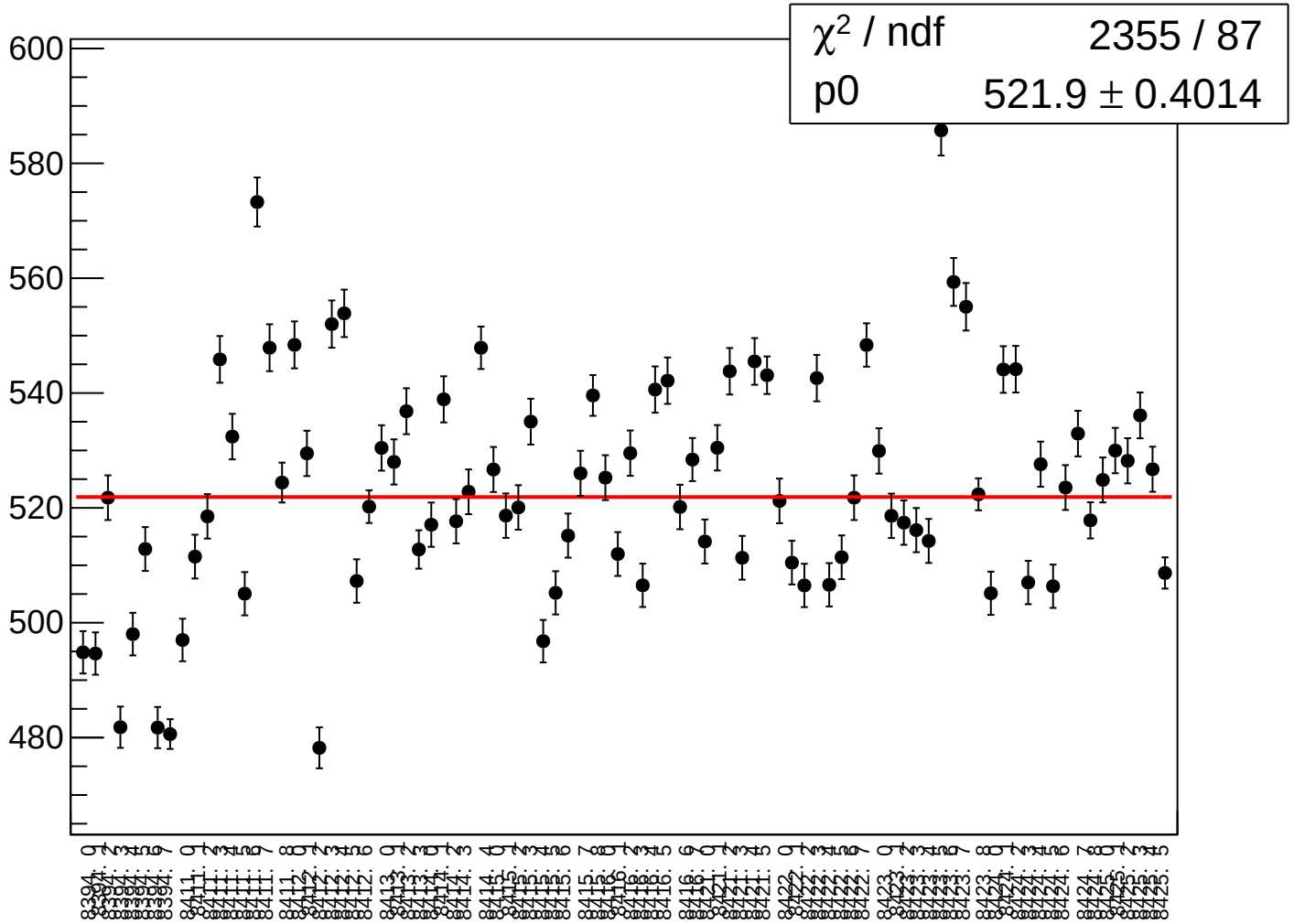

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 78.92 / 87
p0 −1377 ± 1210
pull
Entries 88
Mean 58.53
Std Dev 0

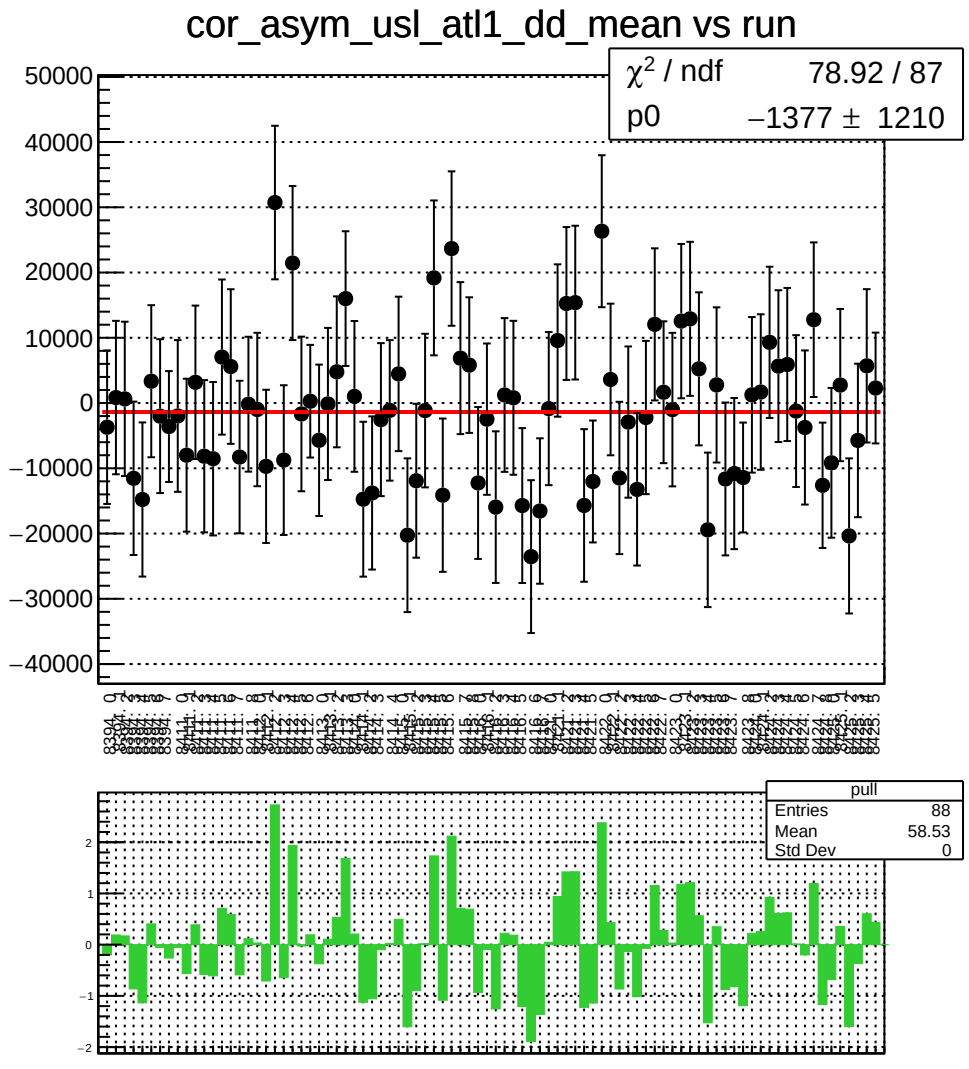

pull1D
Entries 88
Mean 0.007449
Std Dev 0.947

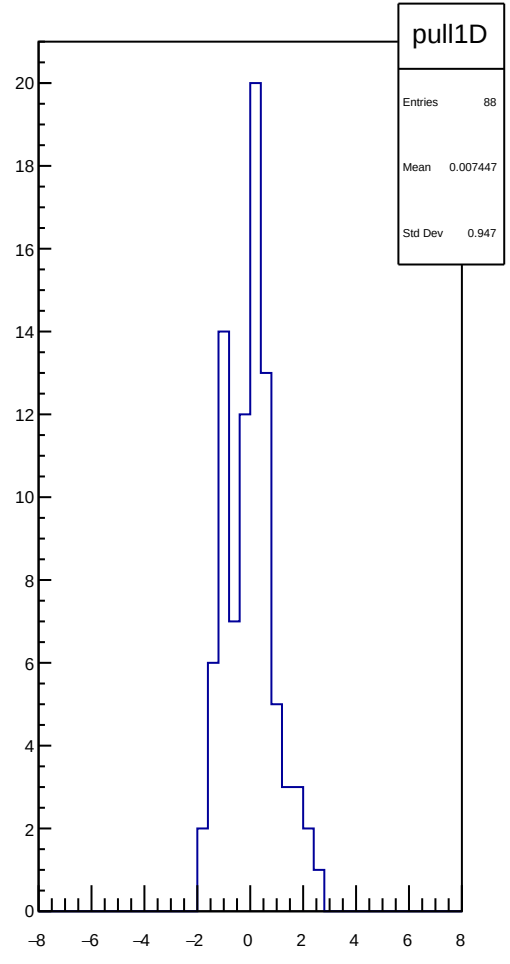

reg_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 116.3 / 87
p0 1113 ± 0.8556
1140
1130
1120
1110
1100
1090
1080

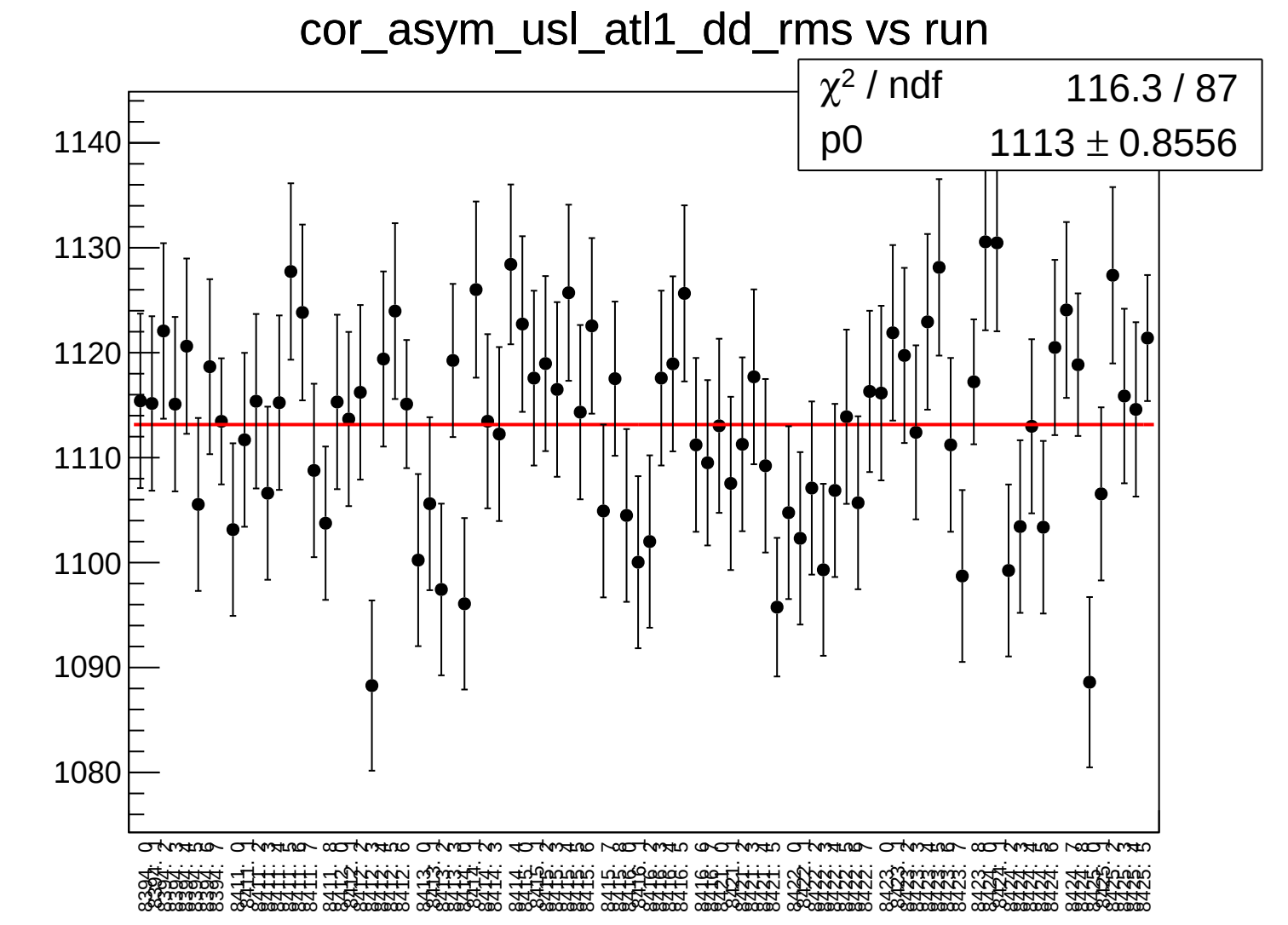

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 82.93 / 87
p0 −4349 ± 567.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 88
Mean −3758
Std Dev 0
2
1
0
−1
−2

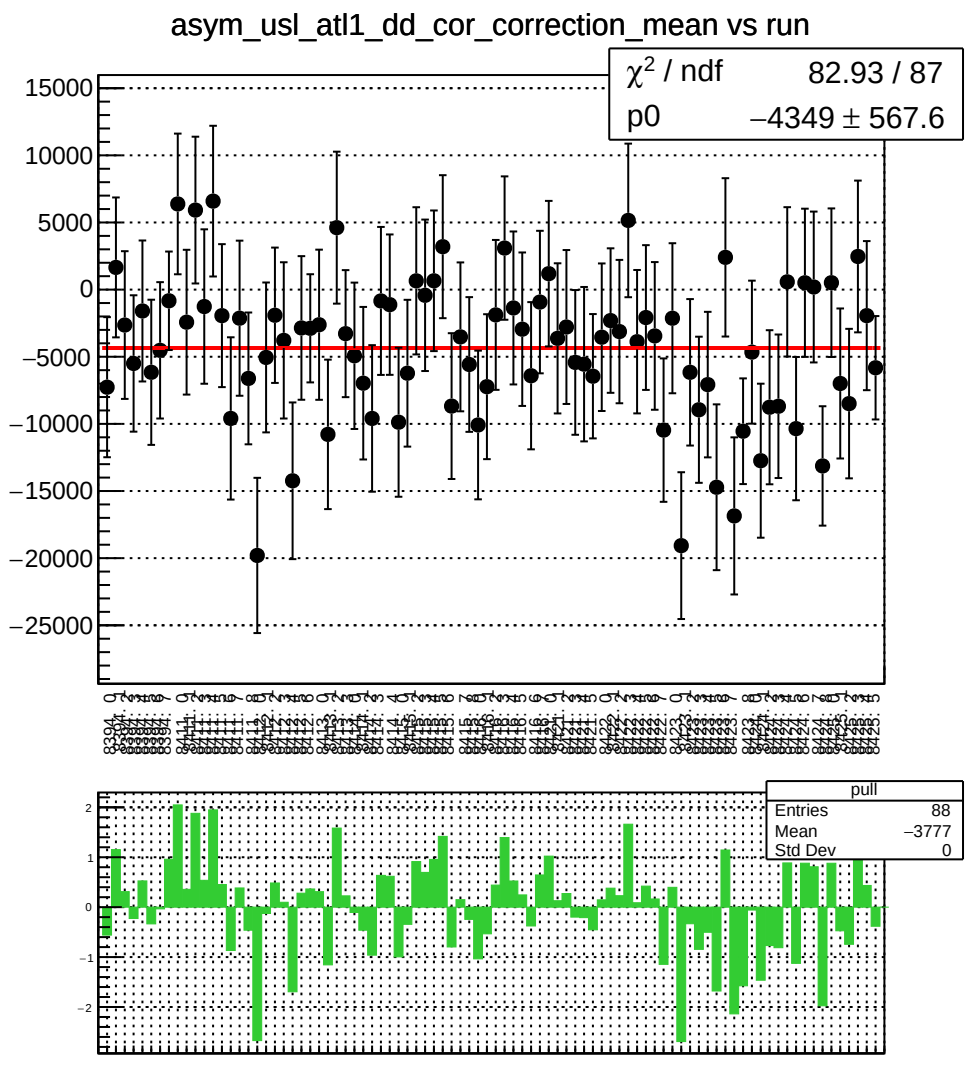

pull1D
Entries 88
Mean 0.00141
Std Dev 0.9708
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

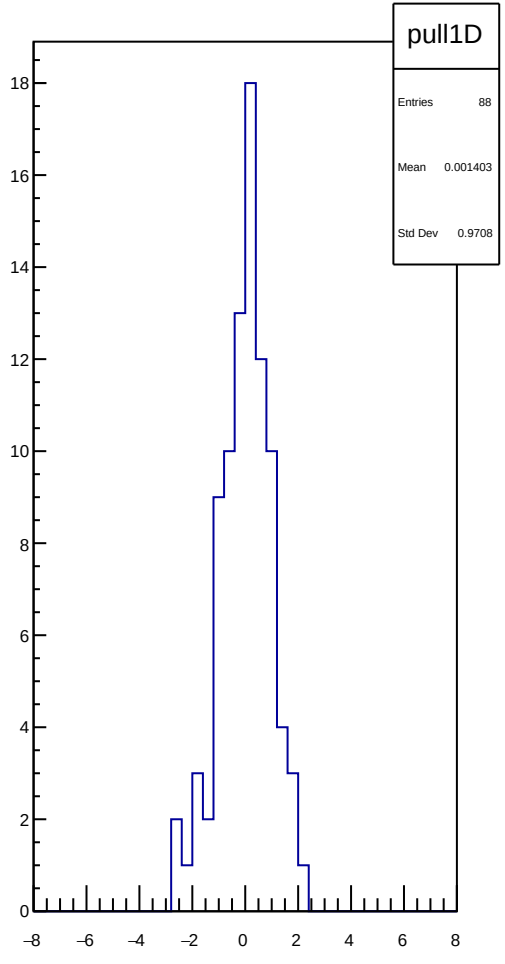

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 2355 / 87
p0 521.9 ± 0.4014
600
580
560
540
520
500
480

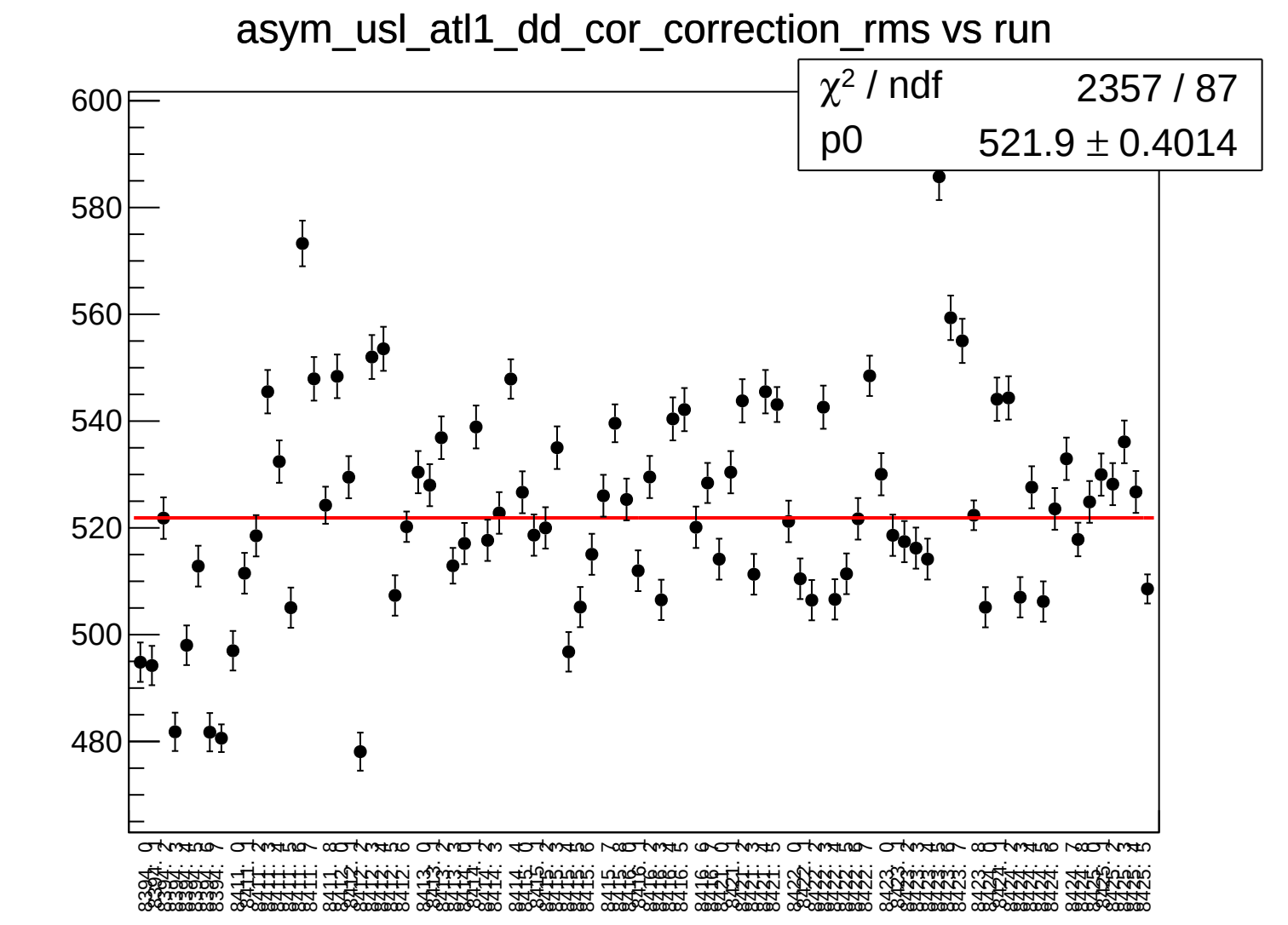

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 78.92 / 87
p0 −1377 ± 1210
pull
Entries 88
Mean 58.53
Std Dev 0

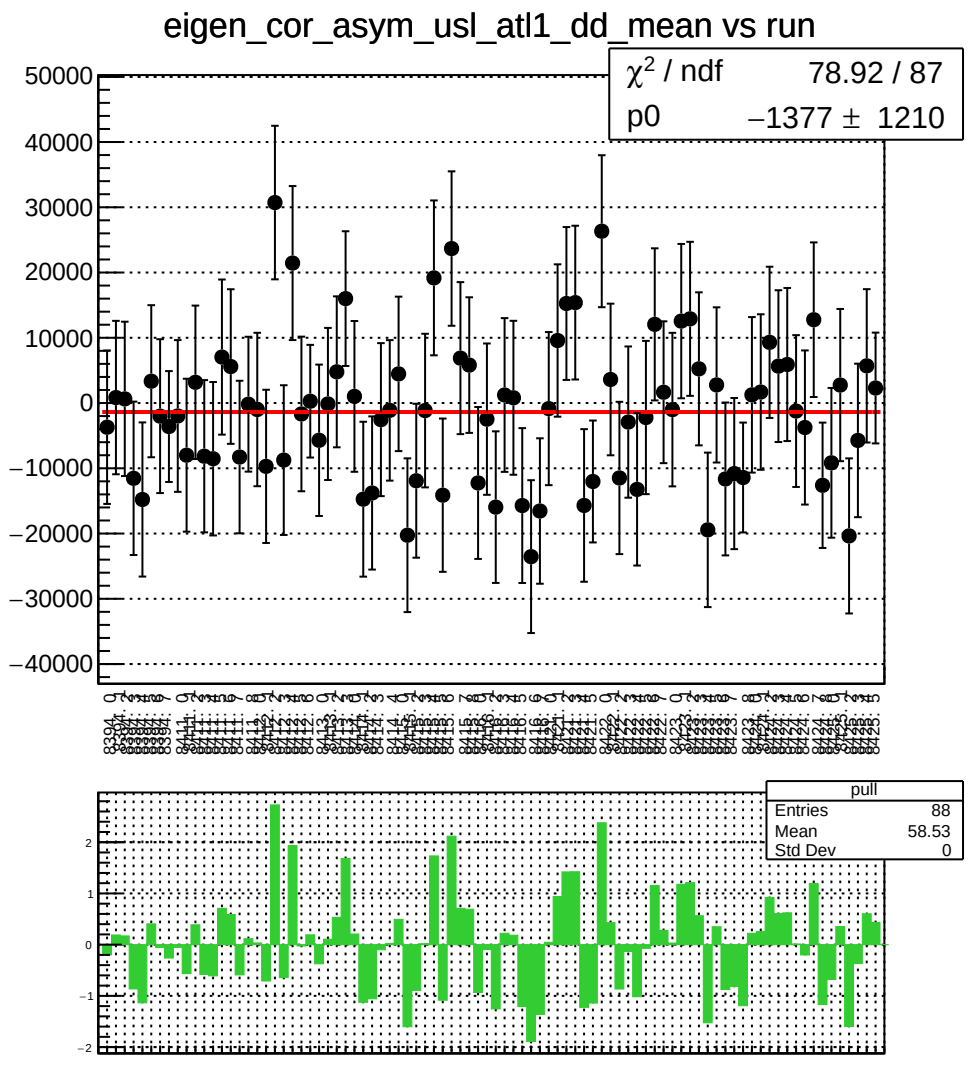

pull1D
Entries 88
Mean 0.007447
Std Dev 0.947

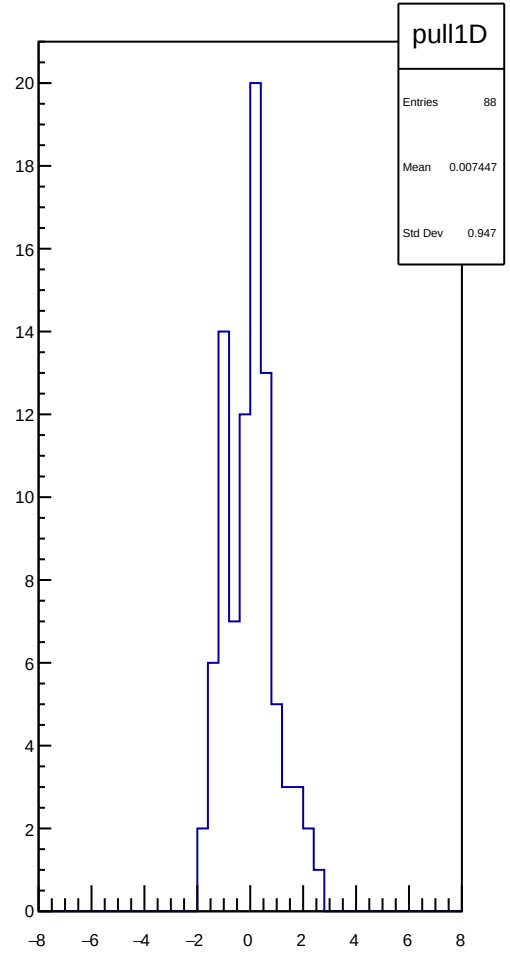

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 116.3 / 87
p0 1113 ± 0.8556
1140
1130
1120
1110
1100
1090
1080

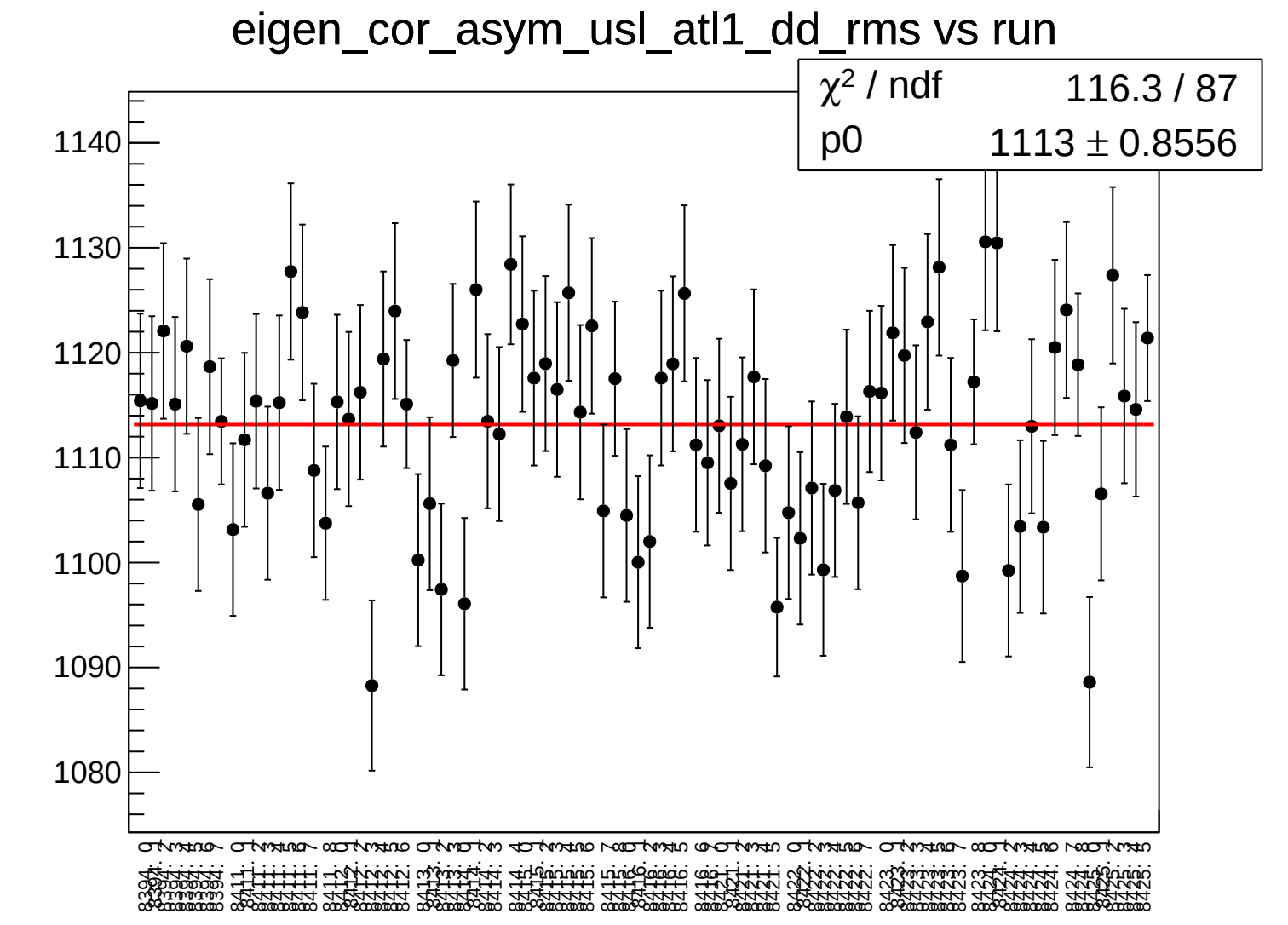

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 82.93 / 87
p0 −4349 ± 567.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 88
Mean −3777
Std Dev 0
2
1
0
−1
−2

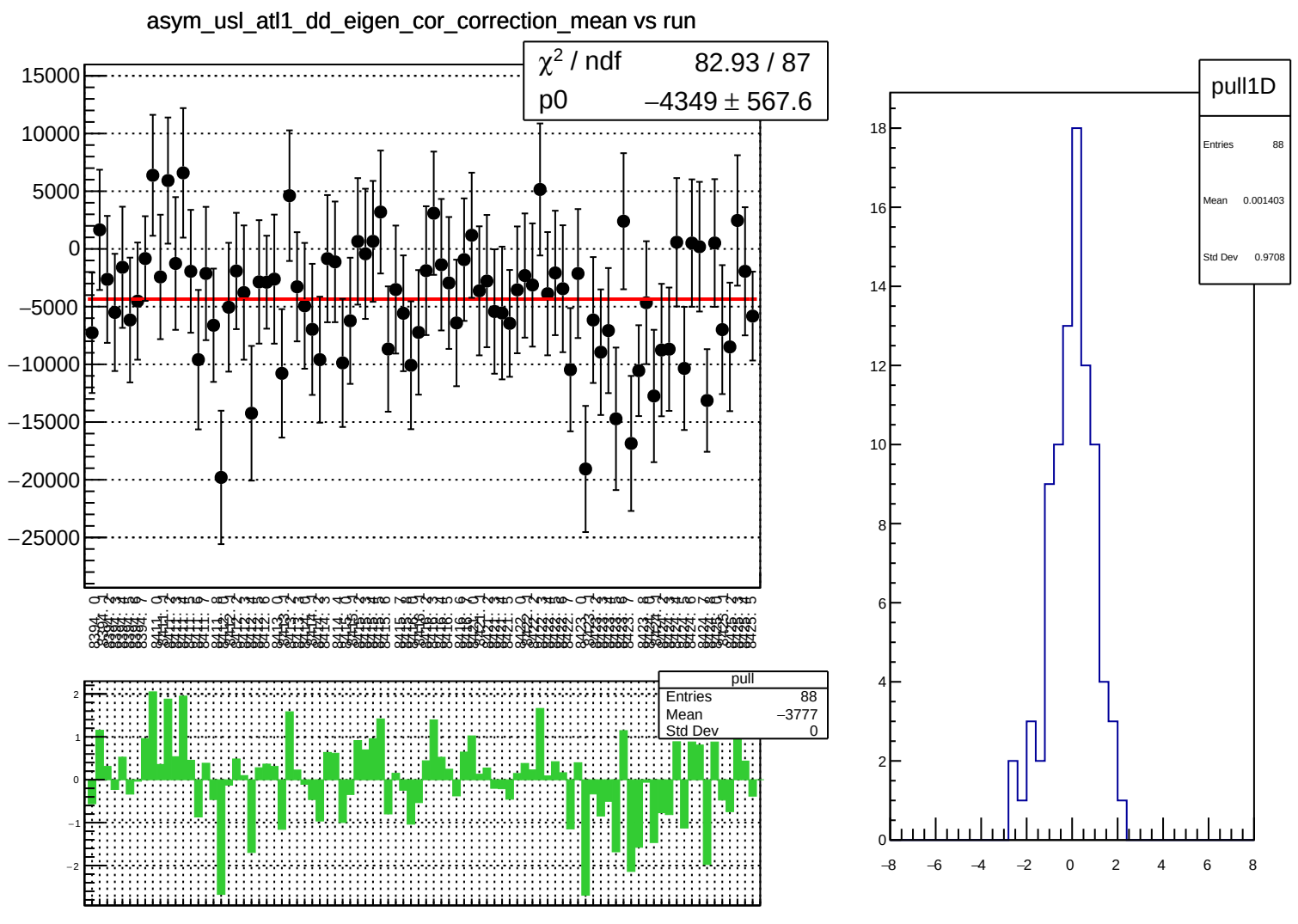

pull1D
Entries 88
Mean 0.001403
Std Dev 0.9708
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

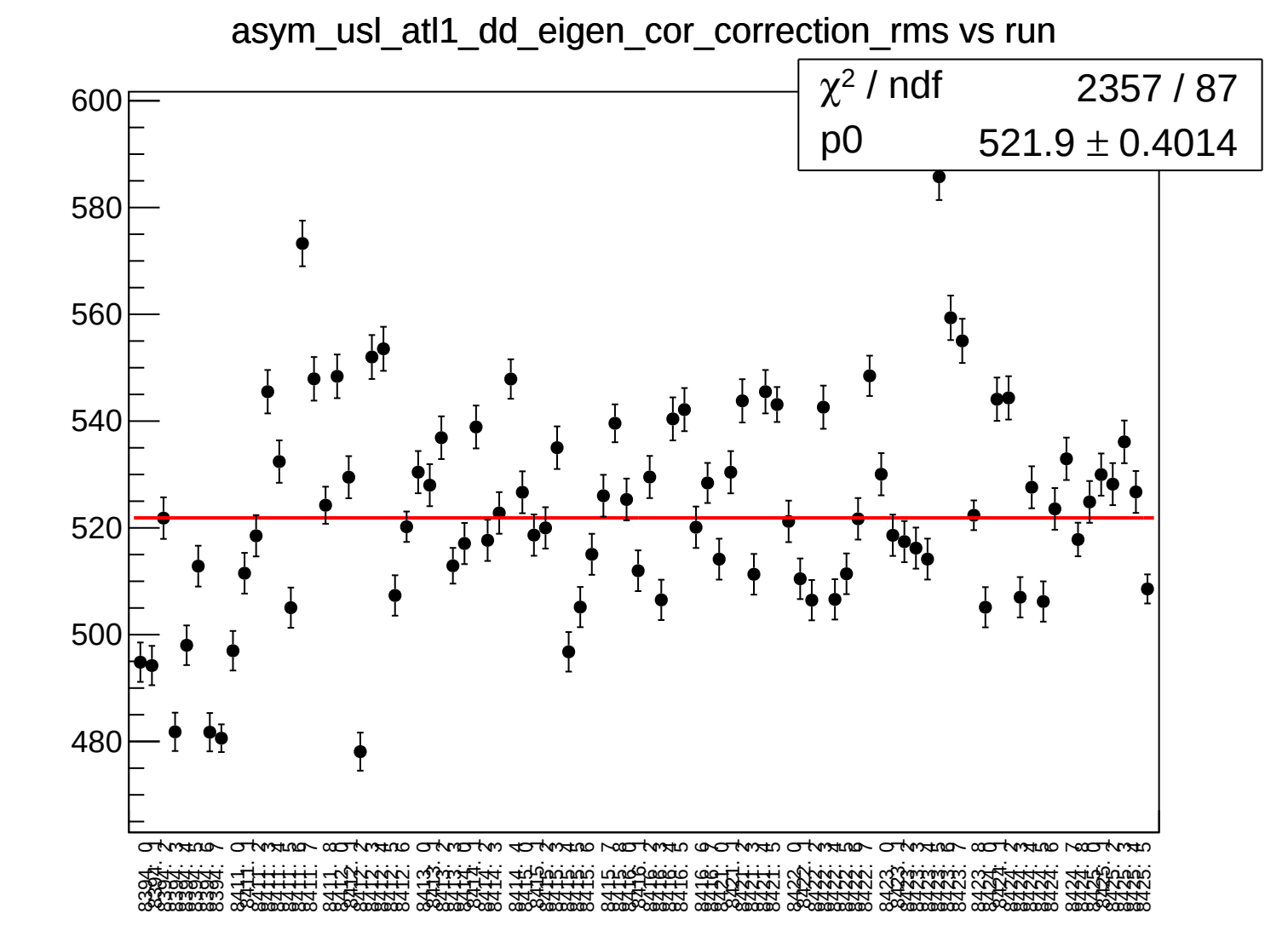

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 2357 / 87
p0 521.9 ± 0.4014
600
580
560
540
520
500
480

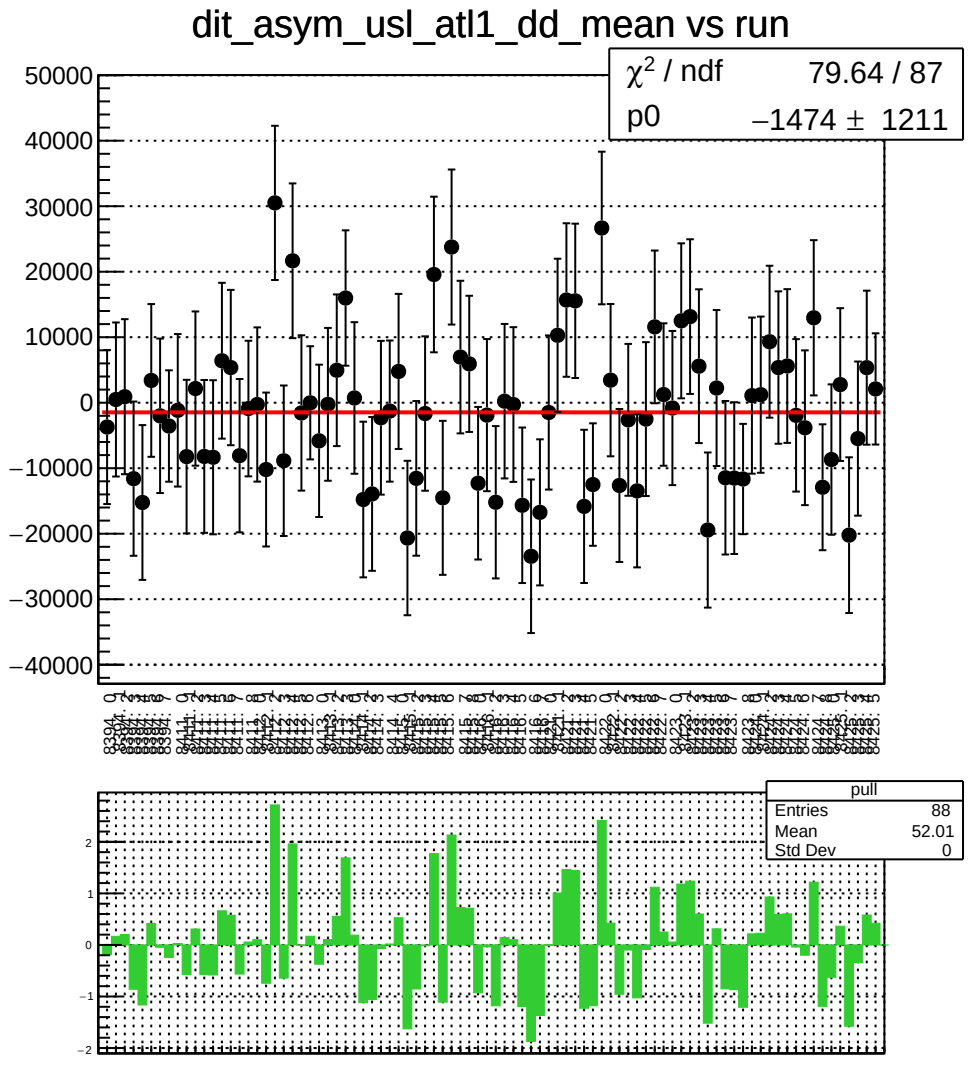

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 78.92 / 87
p0 −1377 ± 1210
pull
Entries 88
Mean 58.53
Std Dev 0

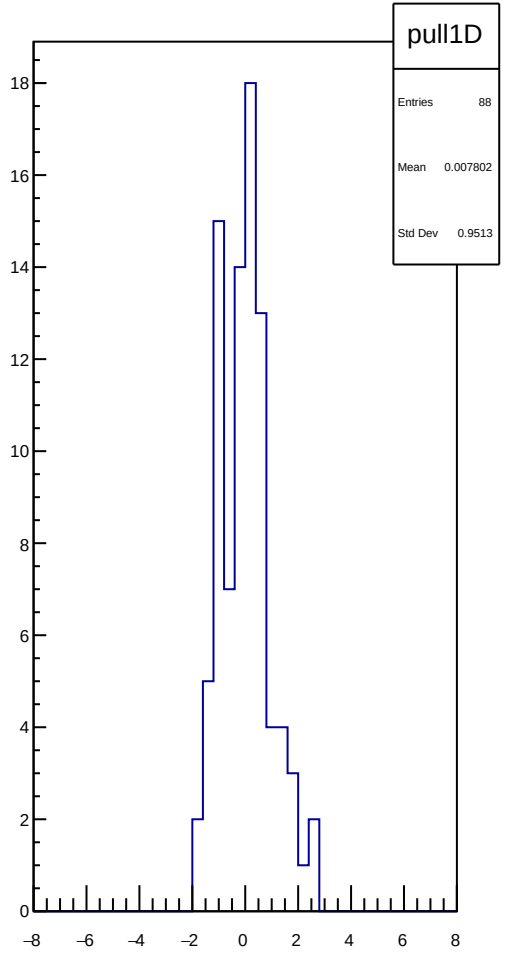

pull1D
Entries 88
Mean 0.007447
Std Dev 0.947

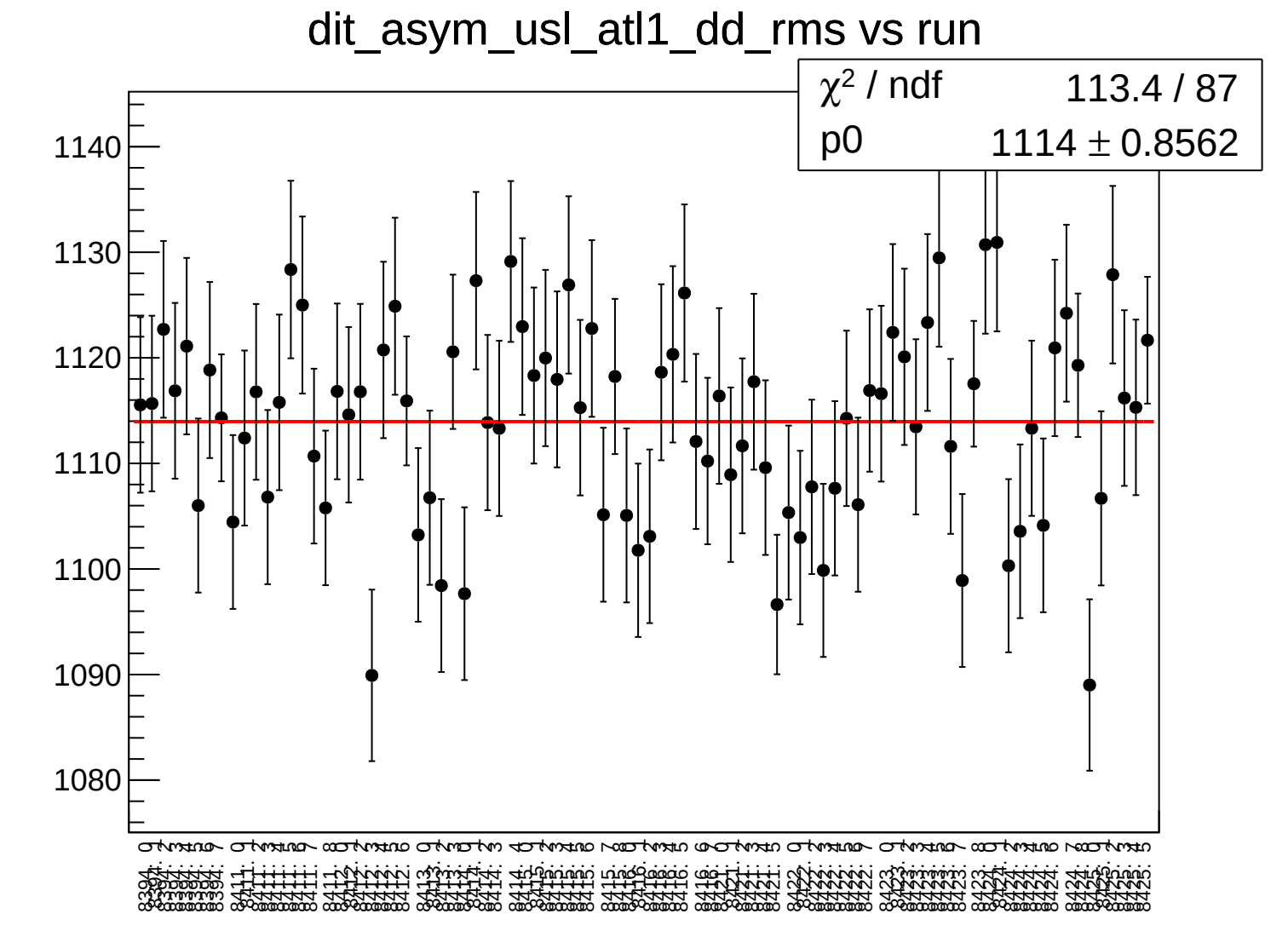

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 116.3 / 87
p0 1113 ± 0.8556
1140
1130
1120
1110
1100
1090
1080

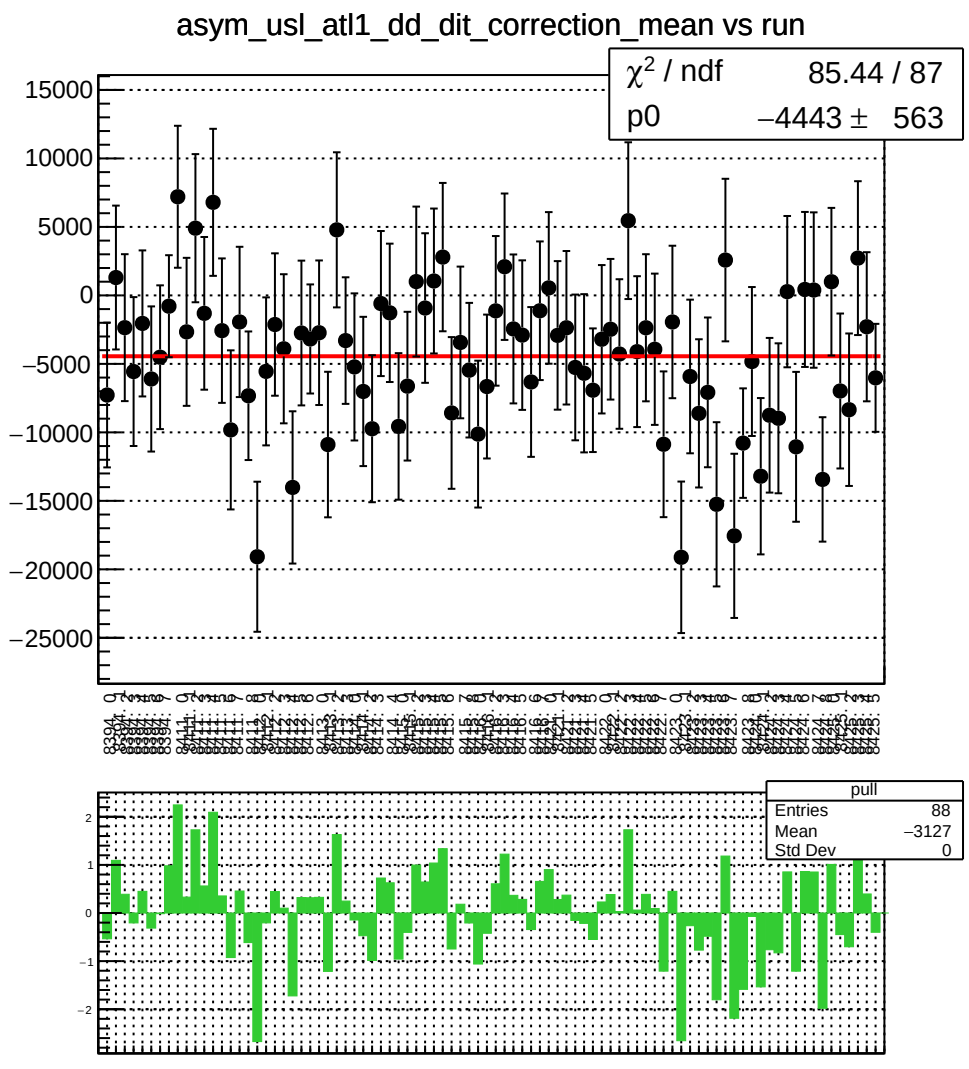

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 82.93 / 87
p0 −4349 ± 567.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 88
Mean −3777
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.001403
Std Dev 0.9708
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

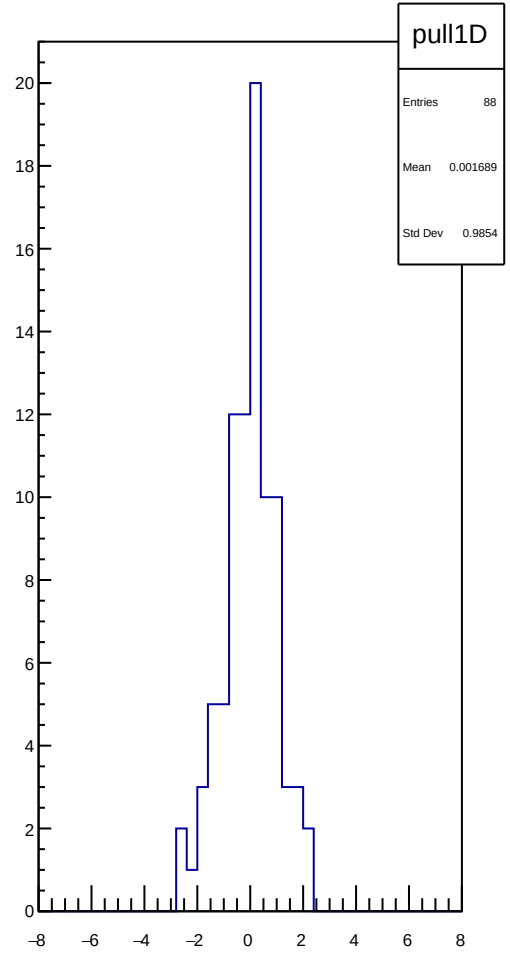

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 2357 / 87
p0 521.9 ± 0.4014
600
580
560
540
520
500
480

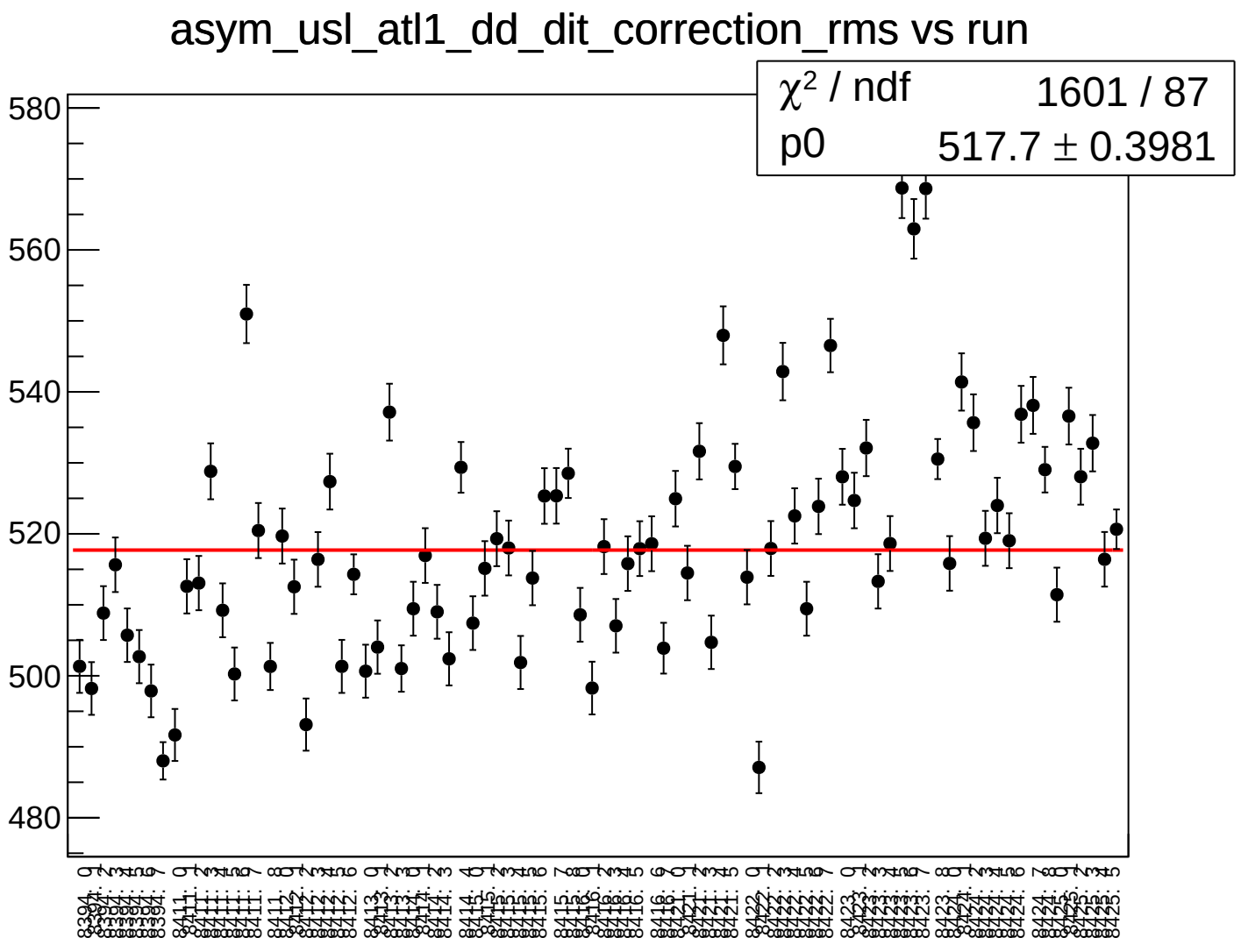

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 79.64 / 87
p0 −1474 ± 1211
pull
Entries 88
Mean 52.01
Std Dev 0

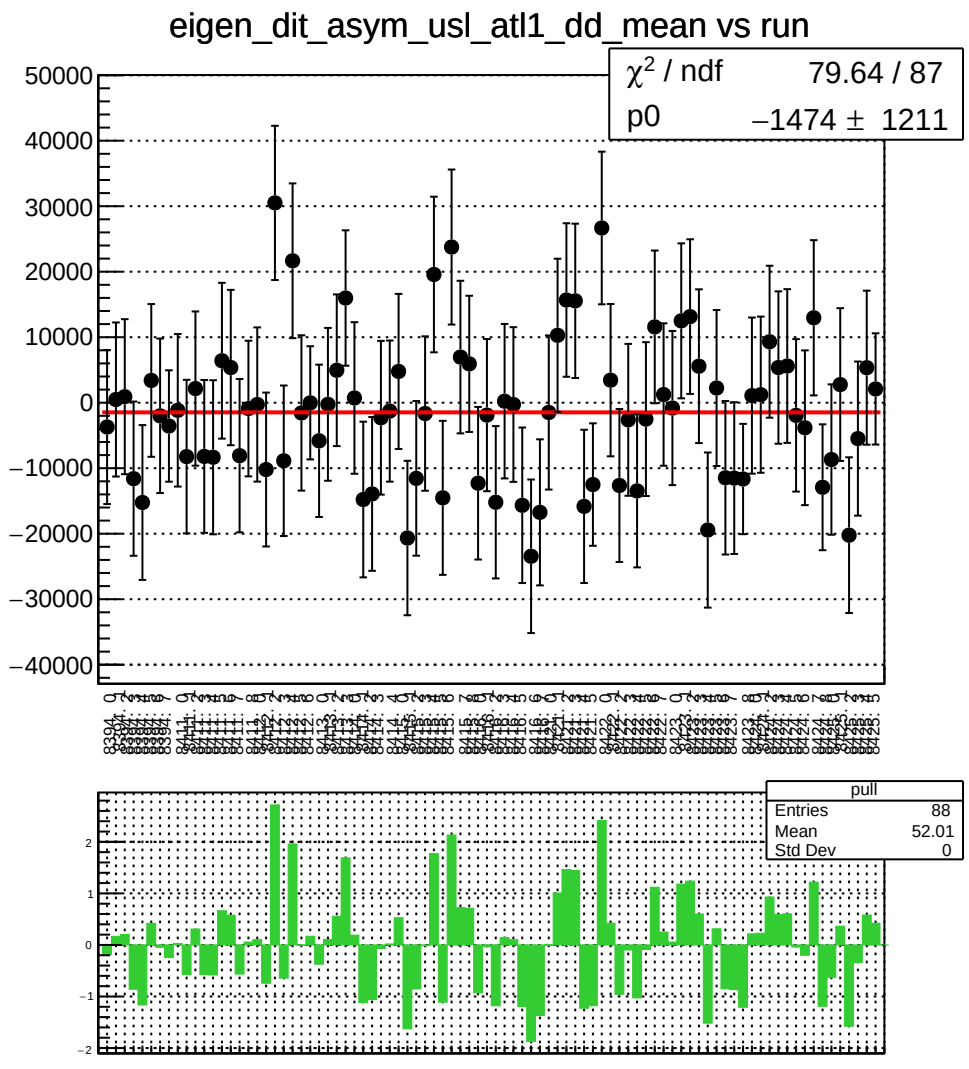

pull1D
Entries 88
Mean 0.007802
Std Dev 0.9513

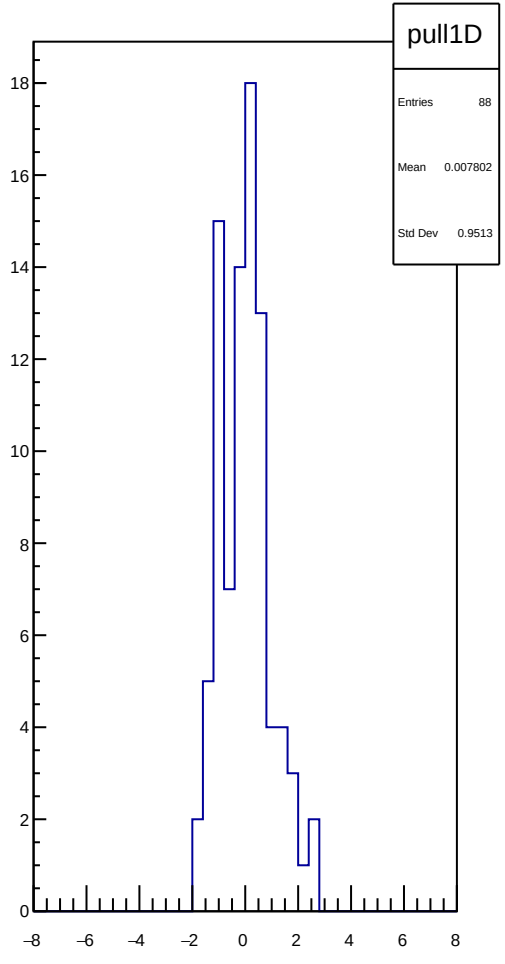

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 113.4 / 87
p0 1114 ± 0.8562
1140
1130
1120
1110
1100
1090
1080

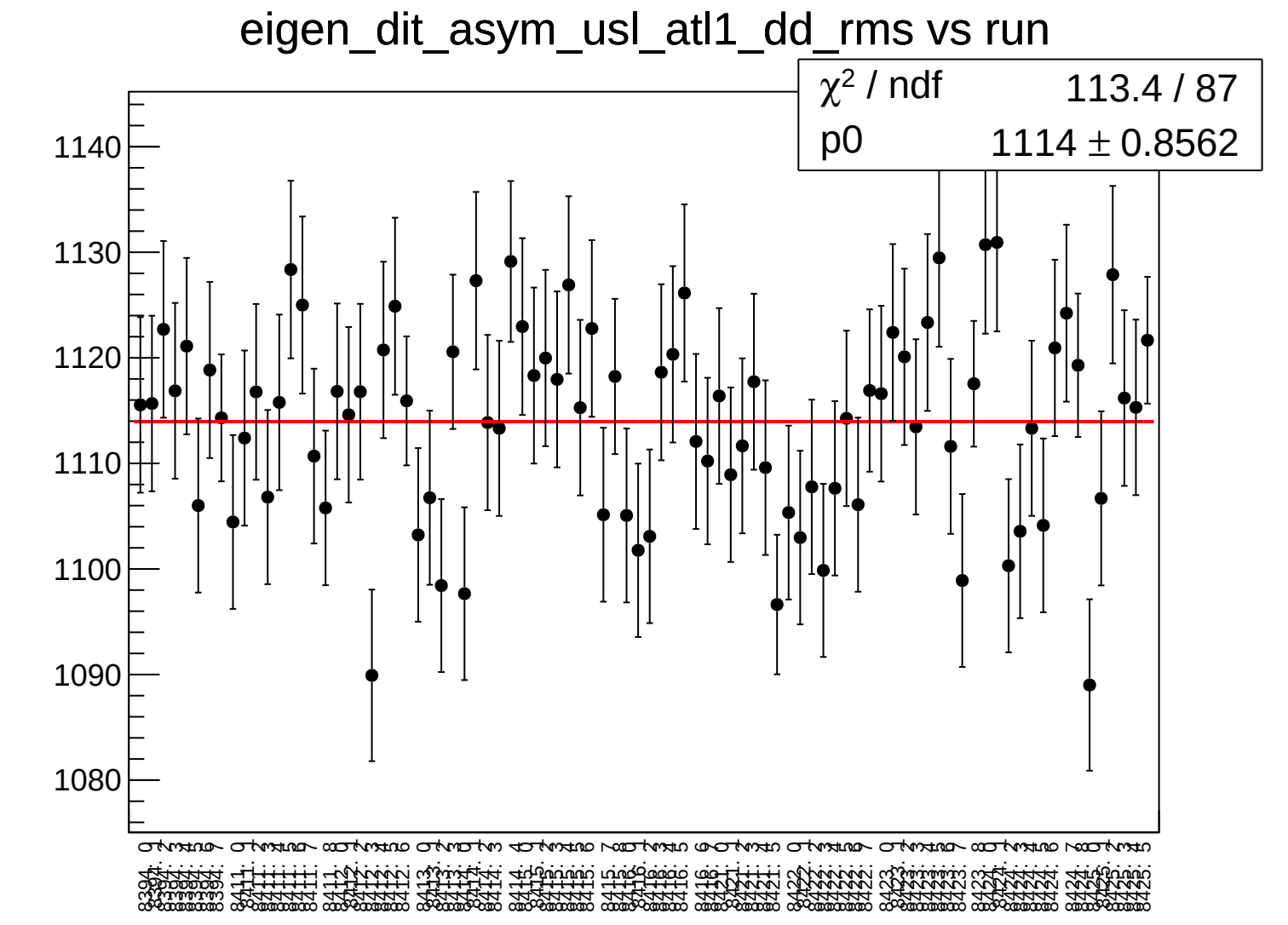

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 85.44 / 87
p0 −4443 ± 563
pull
Entries 88
Mean −3127
Std Dev 0

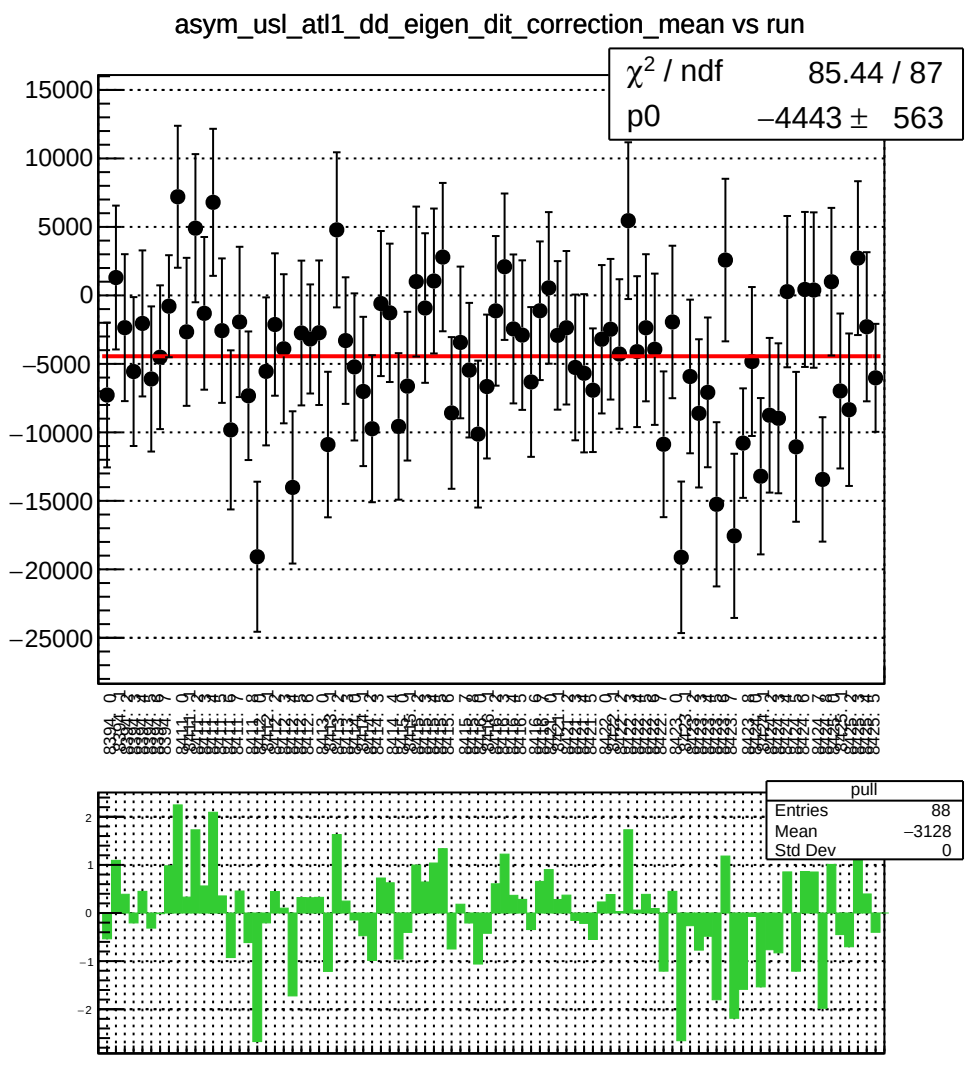

pull1D
Entries 88
Mean 0.001689
Std Dev 0.9854

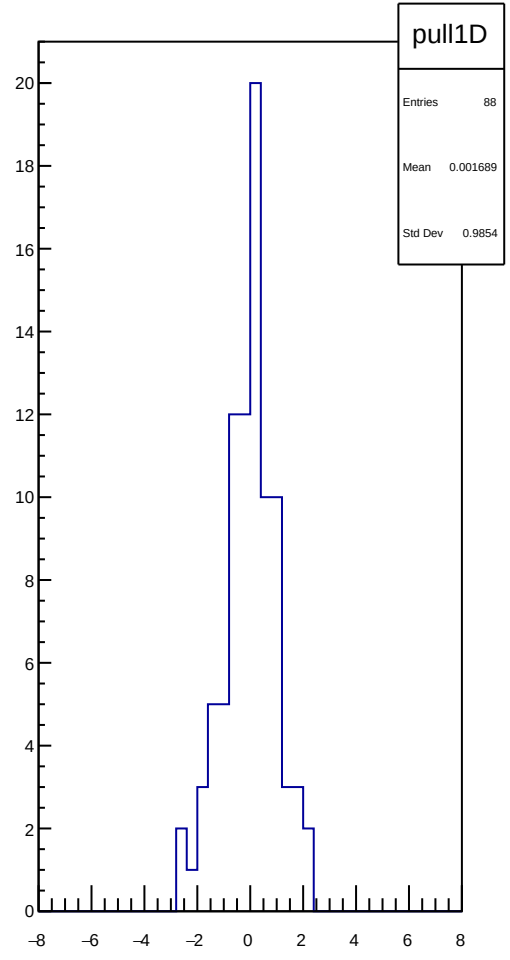

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 1601 / 87
p0 517.7 ± 0.3981
580
560
540
520
500
480

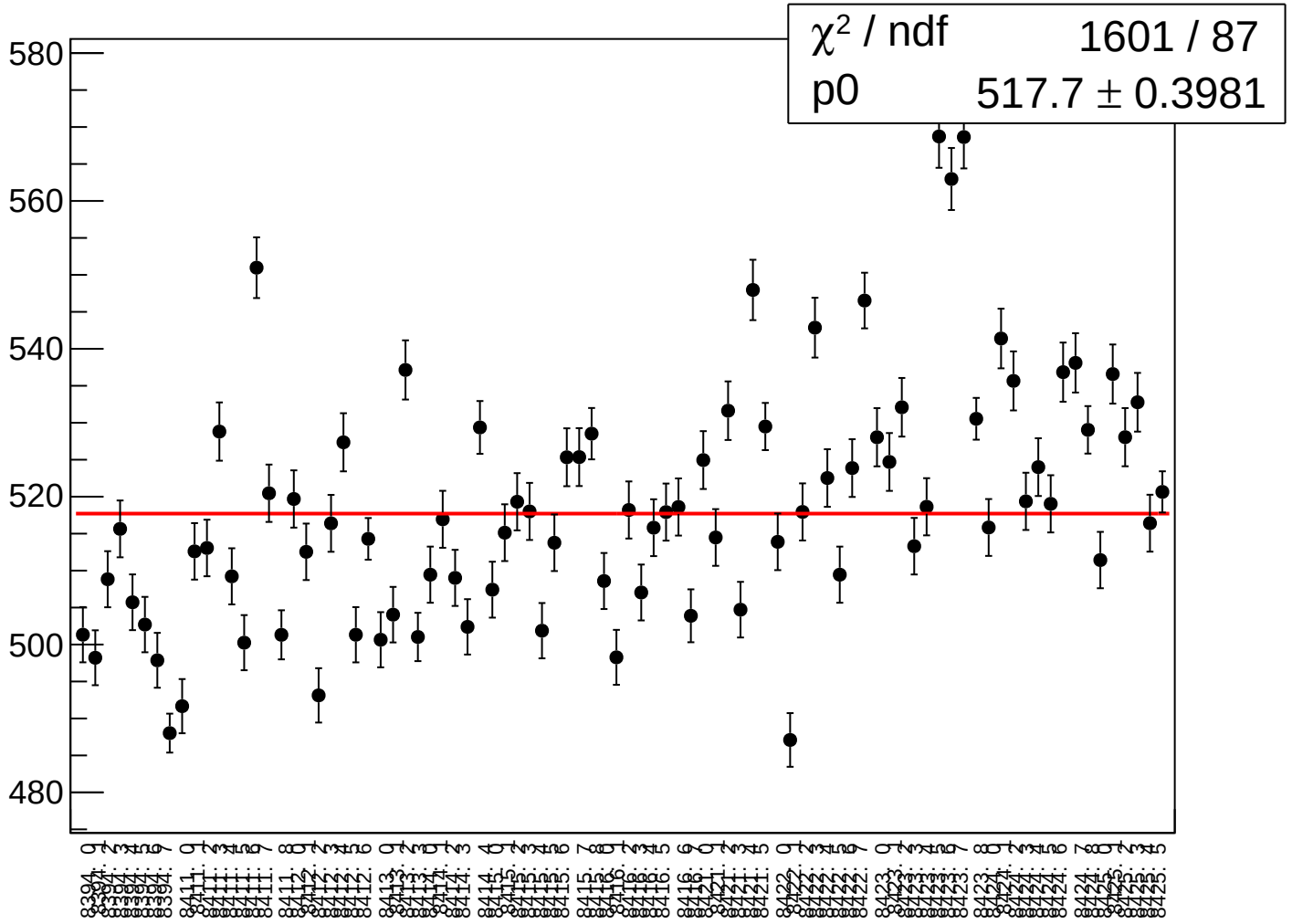

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 79.64 / 87
p0 −1474 ± 1211
pull
Entries 88
Mean 52.01
Std Dev 0

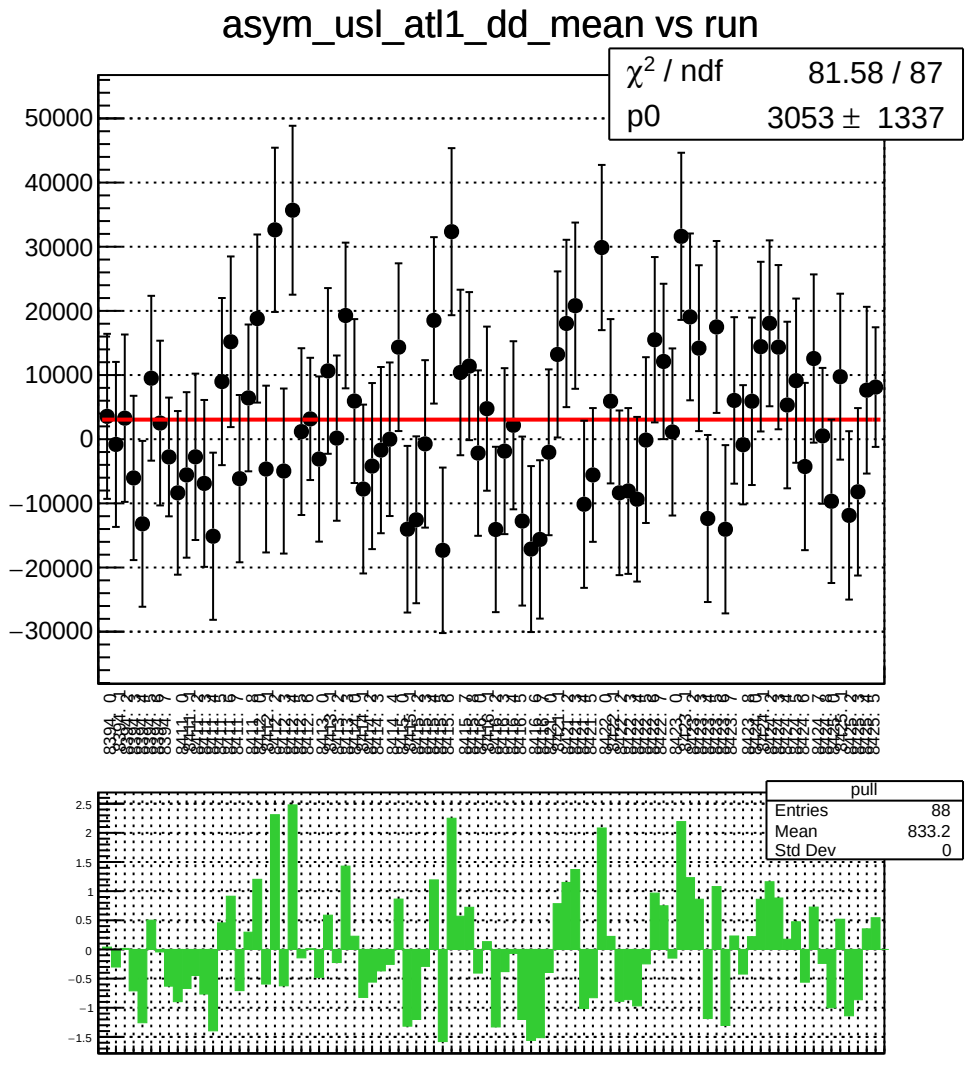

pull1D
Entries 88
Mean 0.007802
Std Dev 0.9513

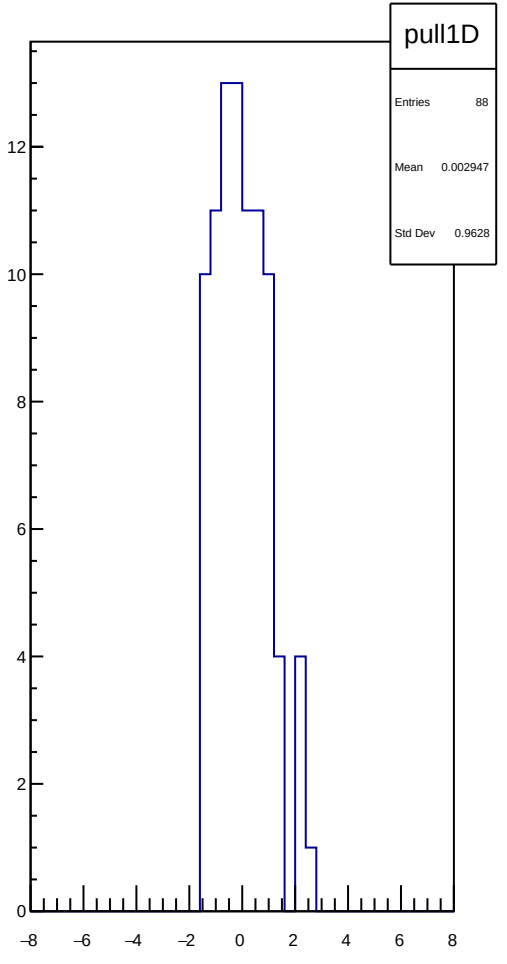

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 113.4 / 87
p0 1114 ± 0.8562
1140
1130
1120
1110
1100
1090
1080

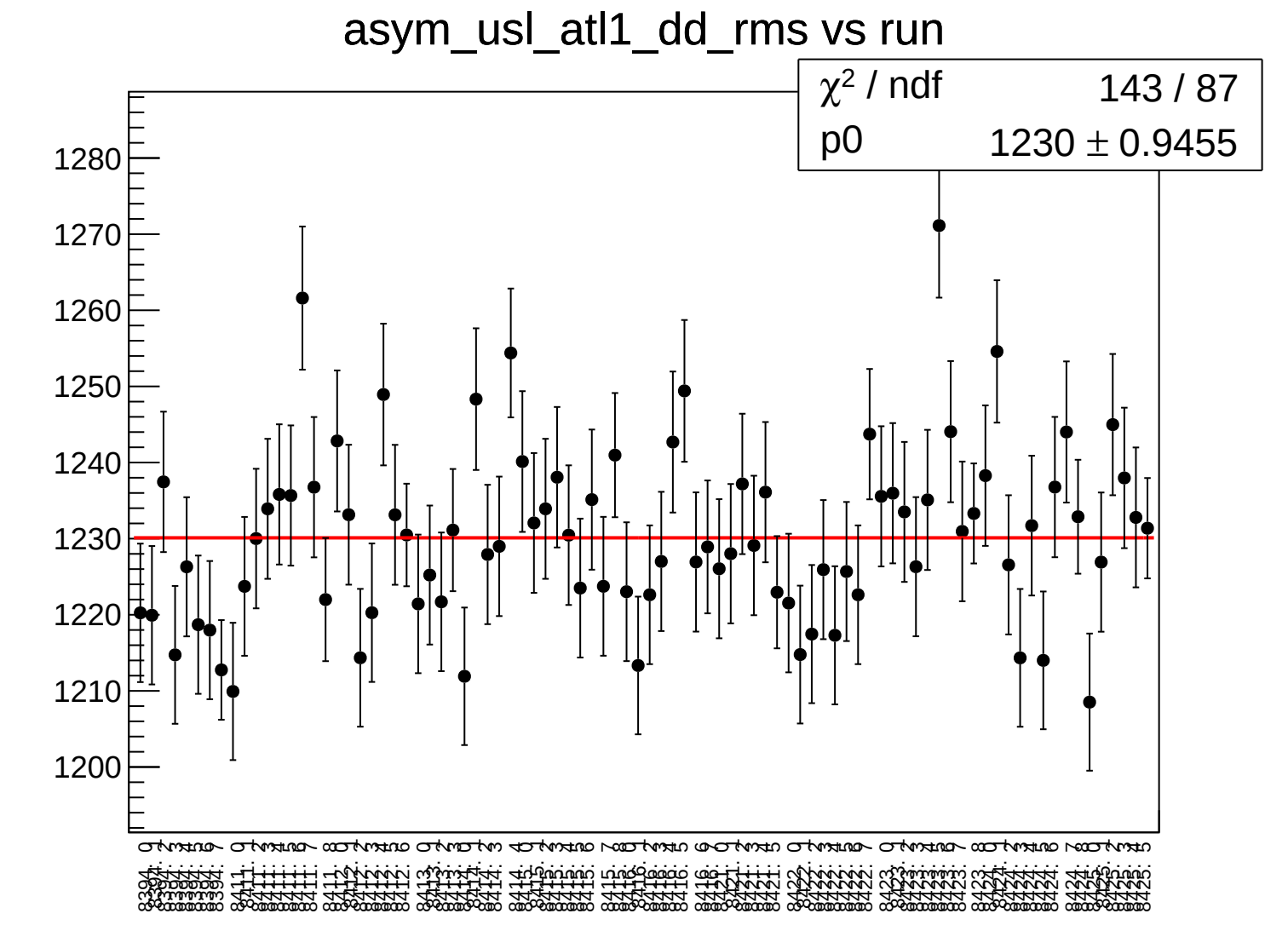

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 85.44 / 87
p0 −4443 ± 563
pull
Entries 88
Mean −3128
Std Dev 0

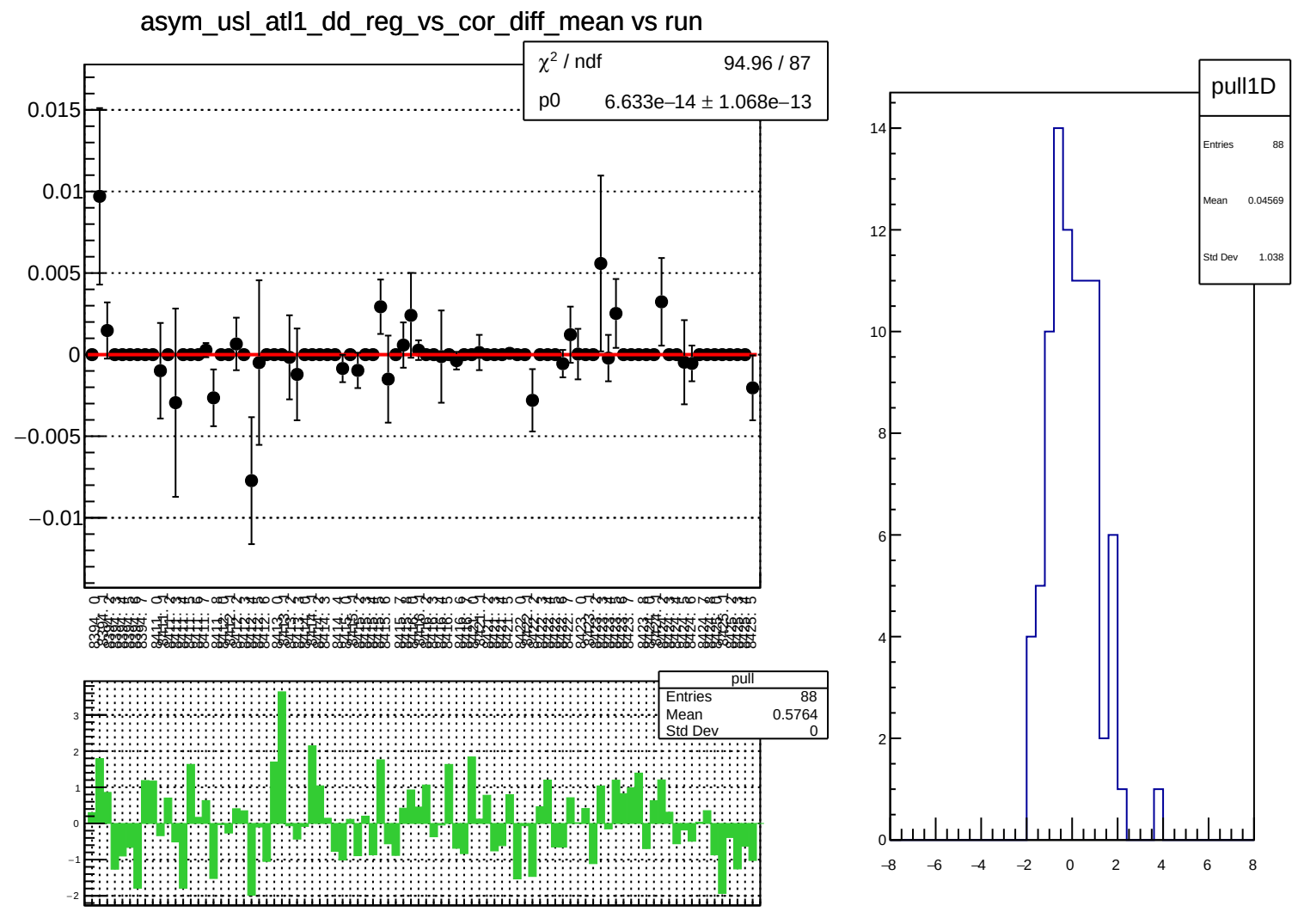

pull1D
Entries 88
Mean 0.001689
Std Dev 0.9854

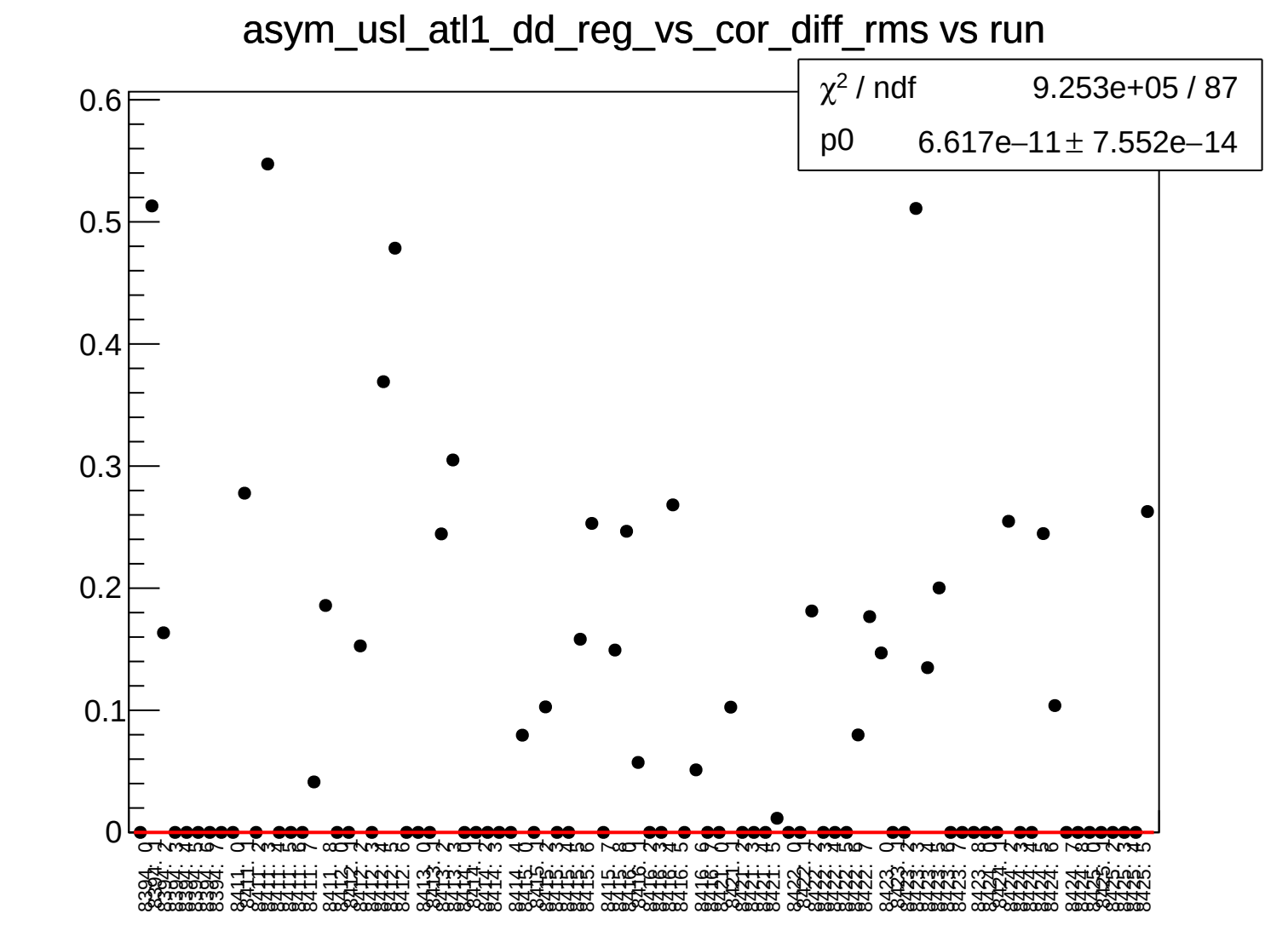

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1601 / 87
p0 517.7 ± 0.3981
580
560
540
520
500
480

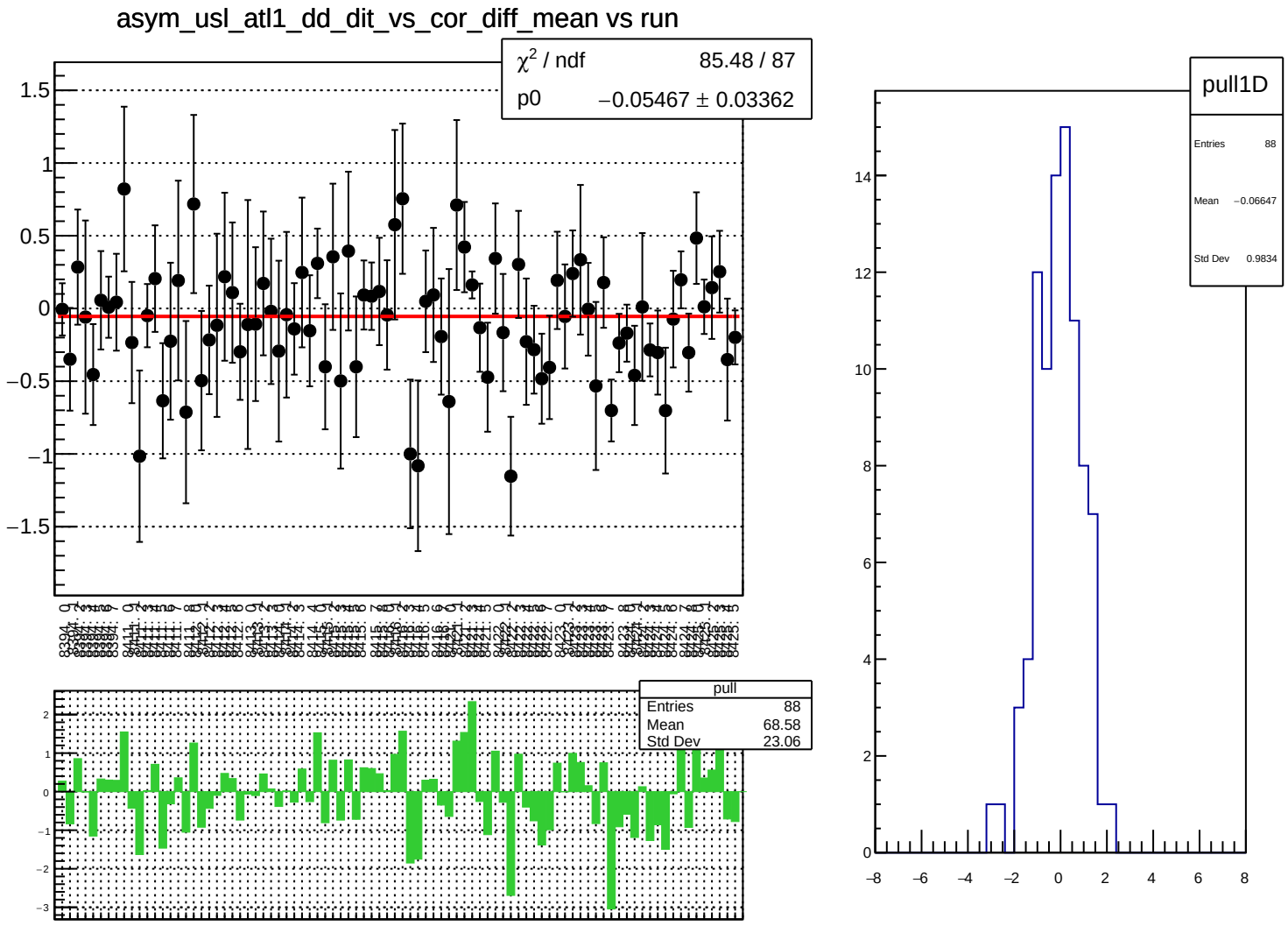

asym_usl_atl1_dd_mean vs run
χ² / ndf 81.58 / 87
p0 3053 ± 1337
pull
Entries 88
Mean 833.2
Std Dev 0

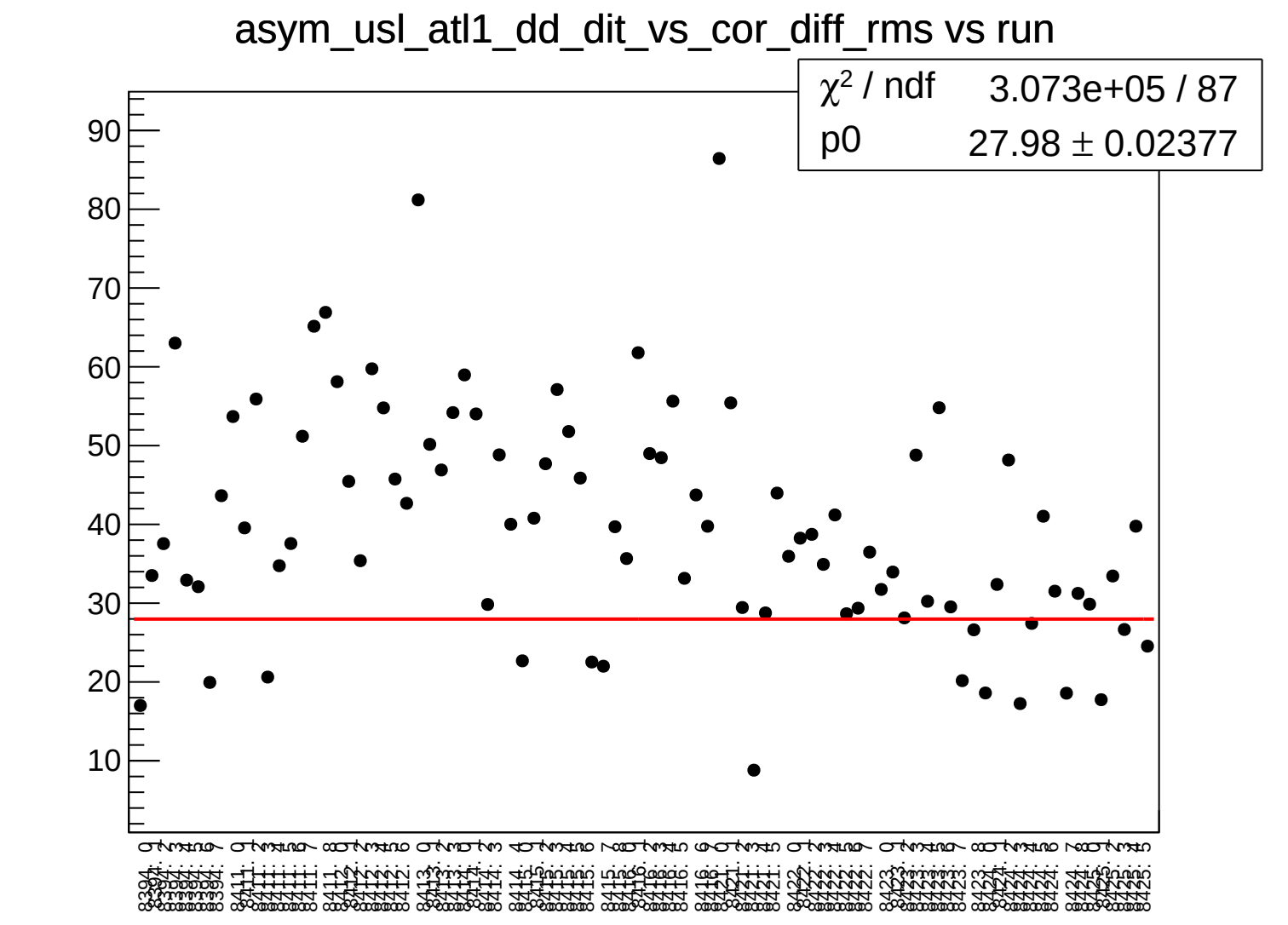

pull1D
Entries 88
Mean 0.002947
Std Dev 0.9628

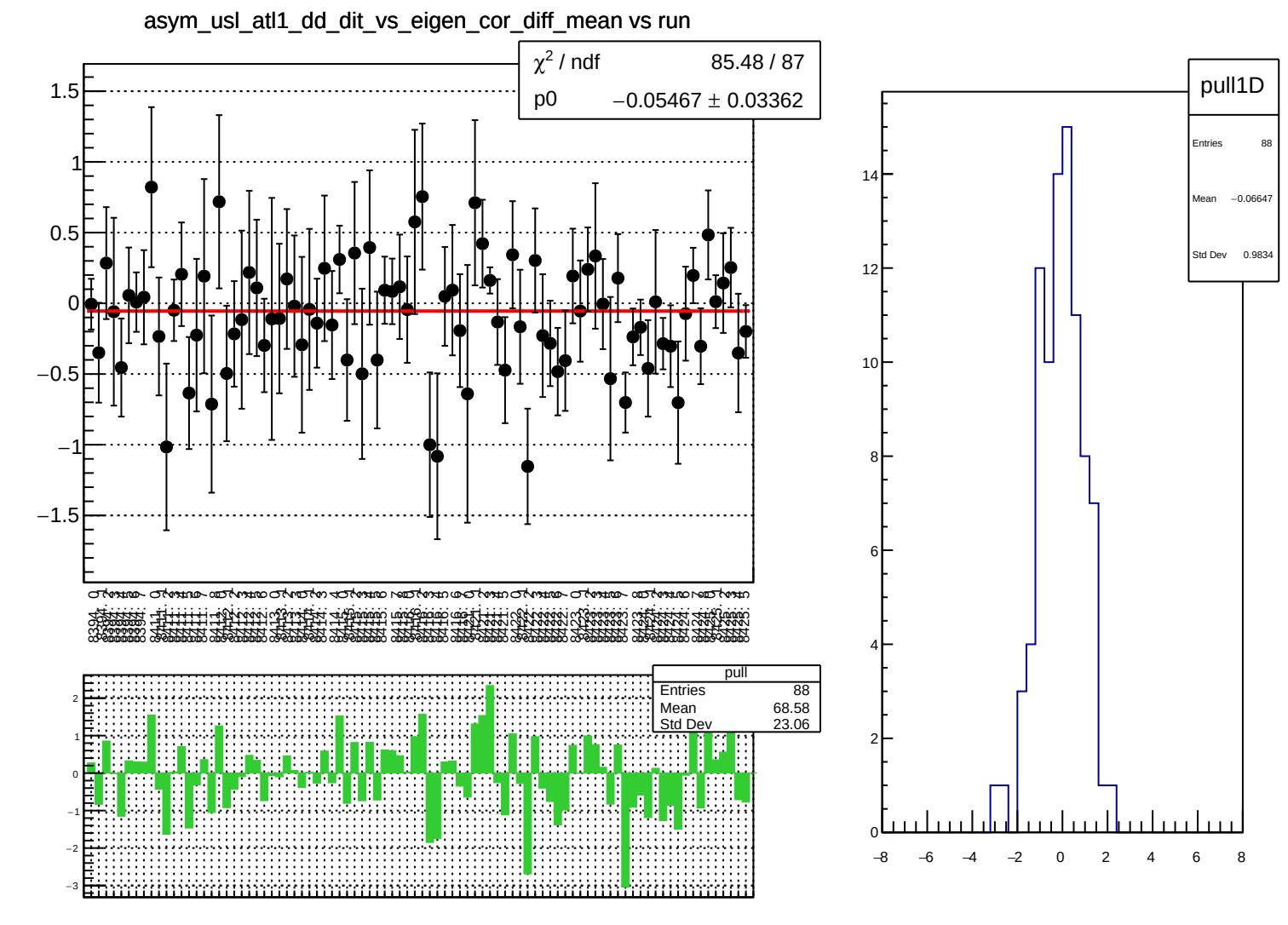

asym_usl_atl1_dd_rms vs run
χ² / ndf 143 / 87
p0 1230 ± 0.9455
1280
1270
1260
1250
1240
1230
1220
1210
1200

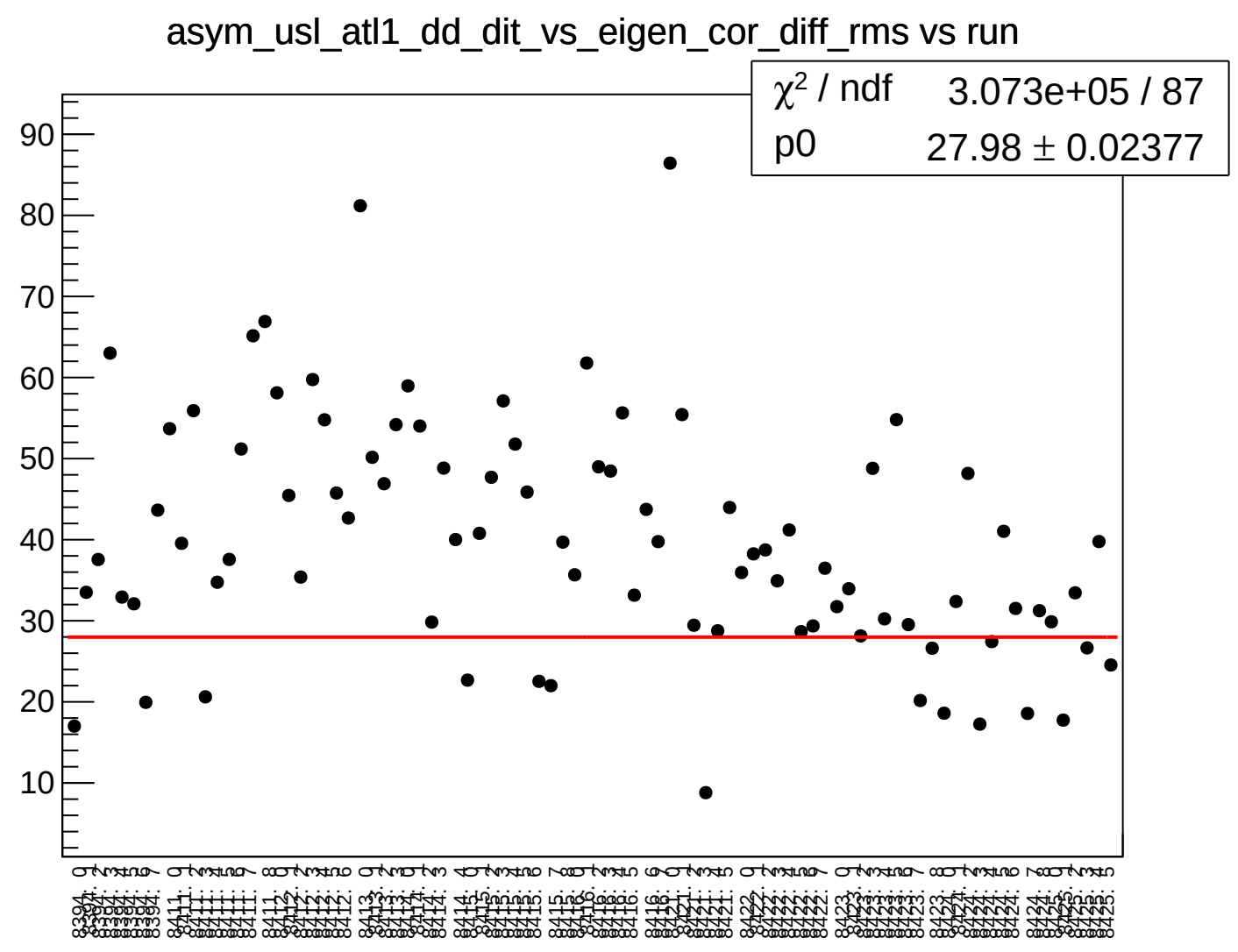

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 94.96 / 87
p0 6.633e−14 ± 1.068e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 88
Mean 0.5764
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.04569
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

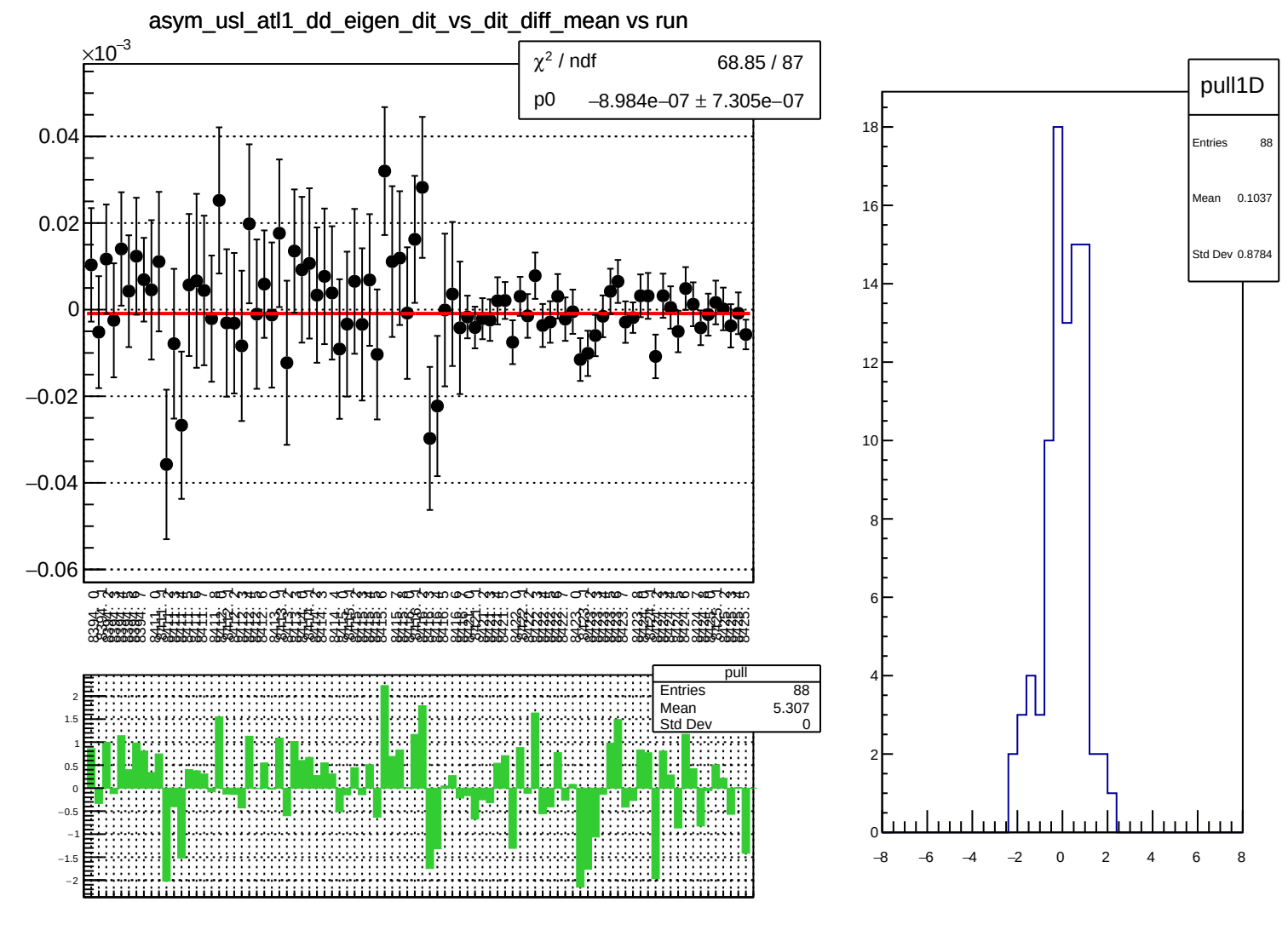

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.253e+05 / 87
p0 6.617e−11 ± 7.552e−14
0.6
0.5
0.4
0.3
0.2
0.1
0

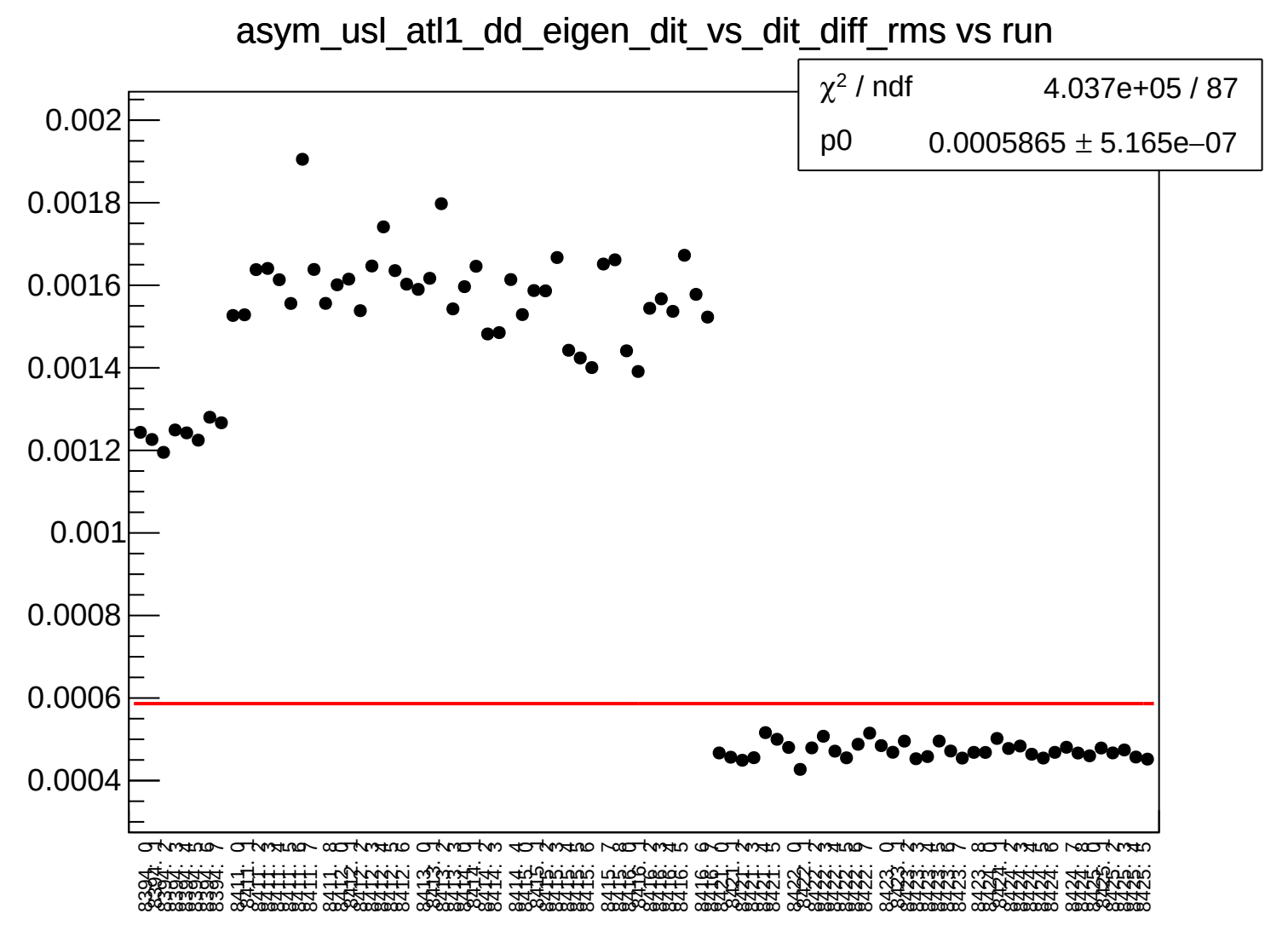

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.48 / 87
p0 −0.05467 ± 0.03362
pull
Entries 88
Mean 68.58
Std Dev 23.06
pull1D
Entries 88
Mean −0.06647
Std Dev 0.9834

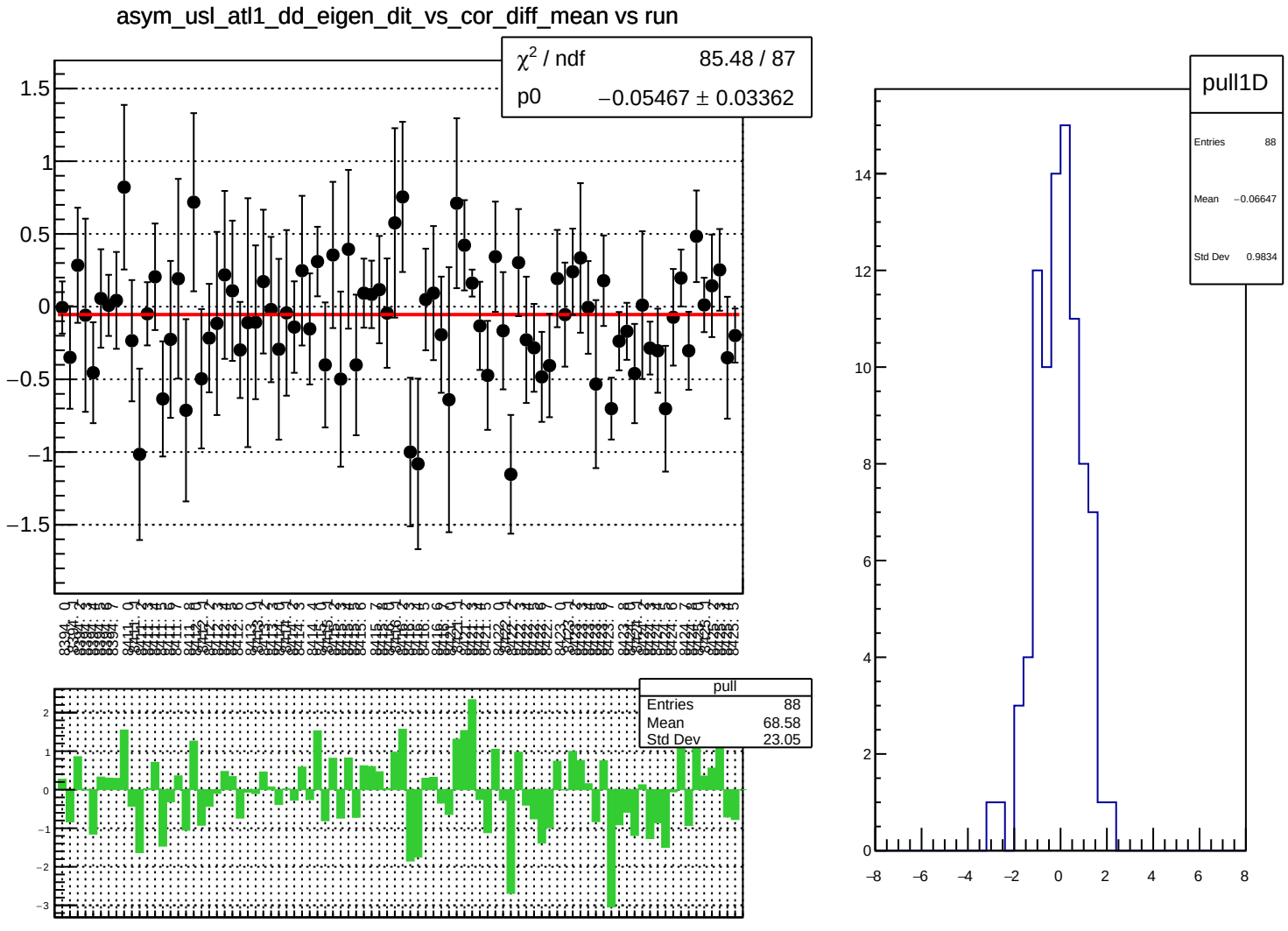

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.073e+05 / 87
p0 27.98 ± 0.02377
90
80
70
60
50
40
30
20
10

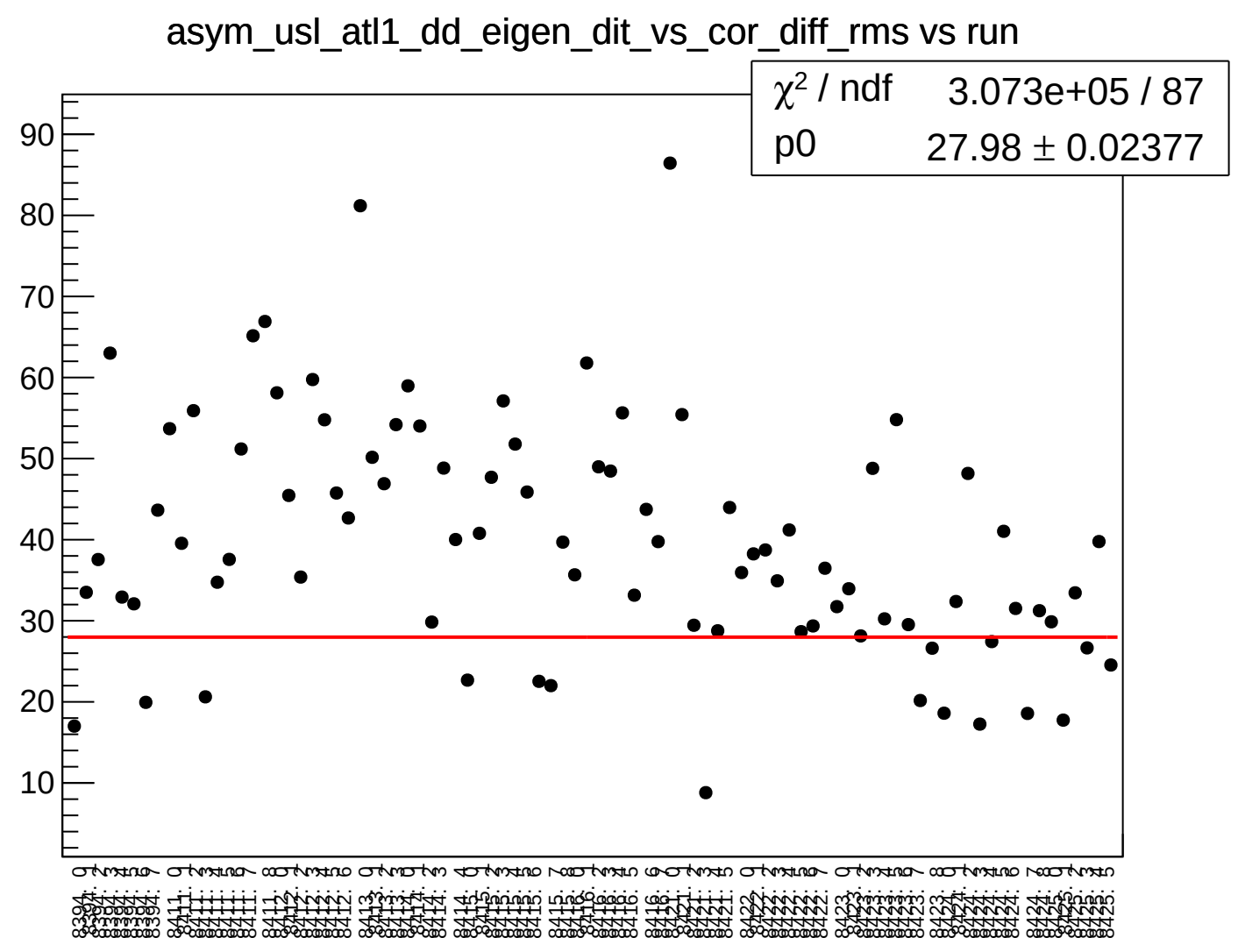

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.48 / 87
p0 −0.05467 ± 0.03362
pull
Entries 88
Mean 68.58
Std Dev 23.06
pull1D
Entries 88
Mean −0.06647
Std Dev 0.9834

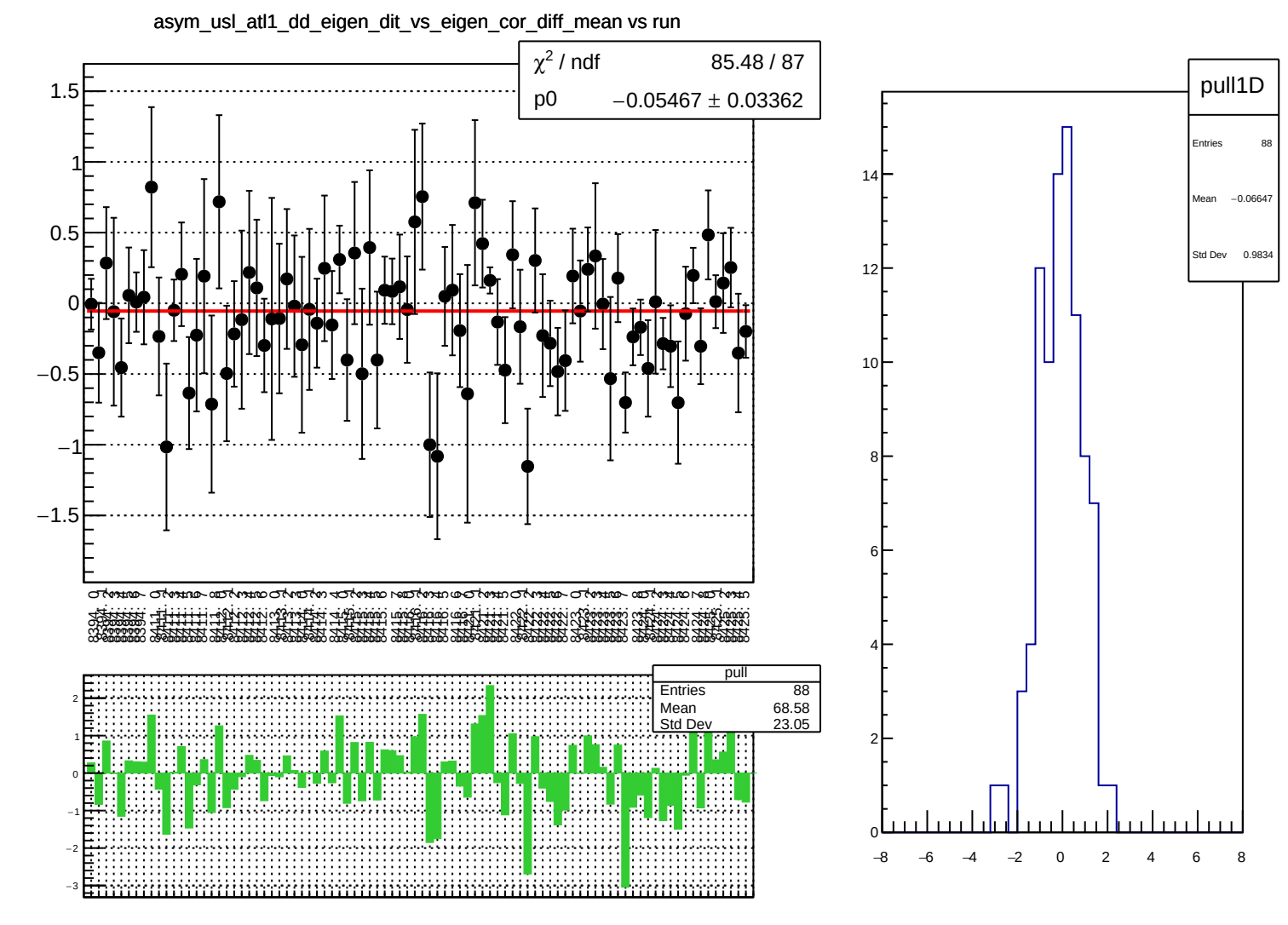

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.073e+05 / 87
p0 27.98 ± 0.02377
90
80
70
60
50
40
30
20
10

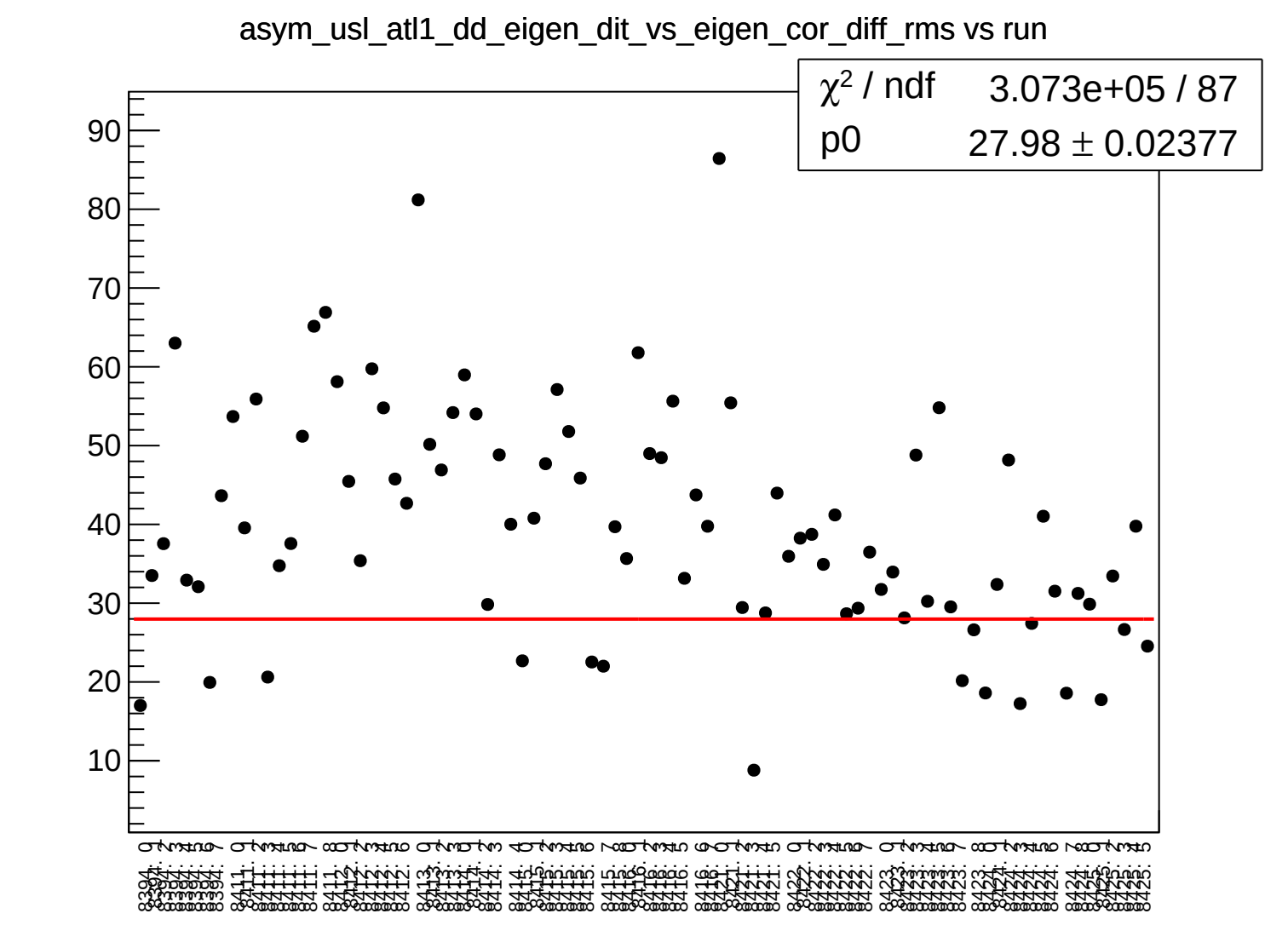

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 68.85 / 87
p0 −8.984e−07 ± 7.305e−07
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 88
Mean 5.307
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean 0.1037
Std Dev 0.8784
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

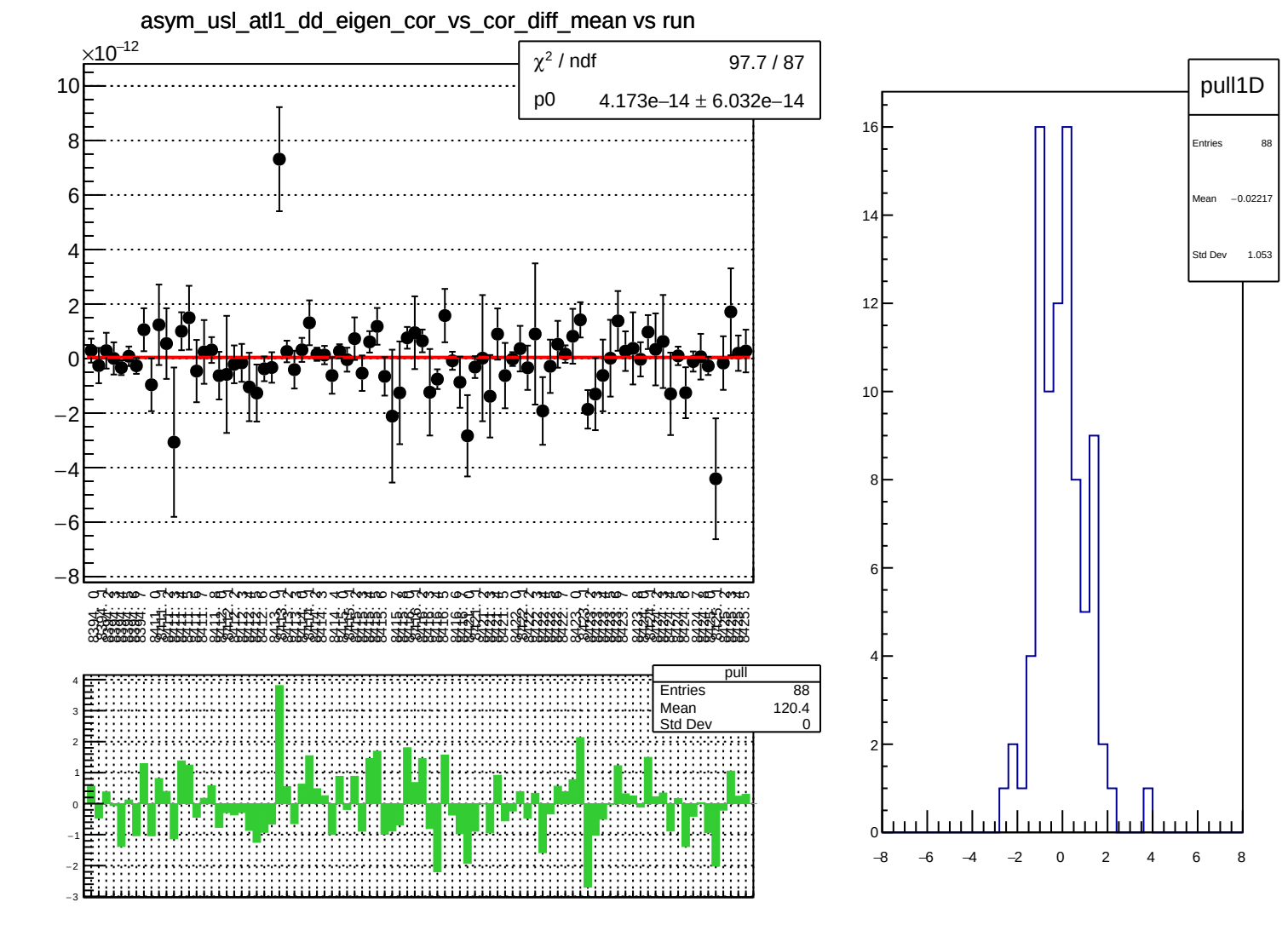

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.037e+05 / 87
p0 0.0005865 ± 5.165e−07
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

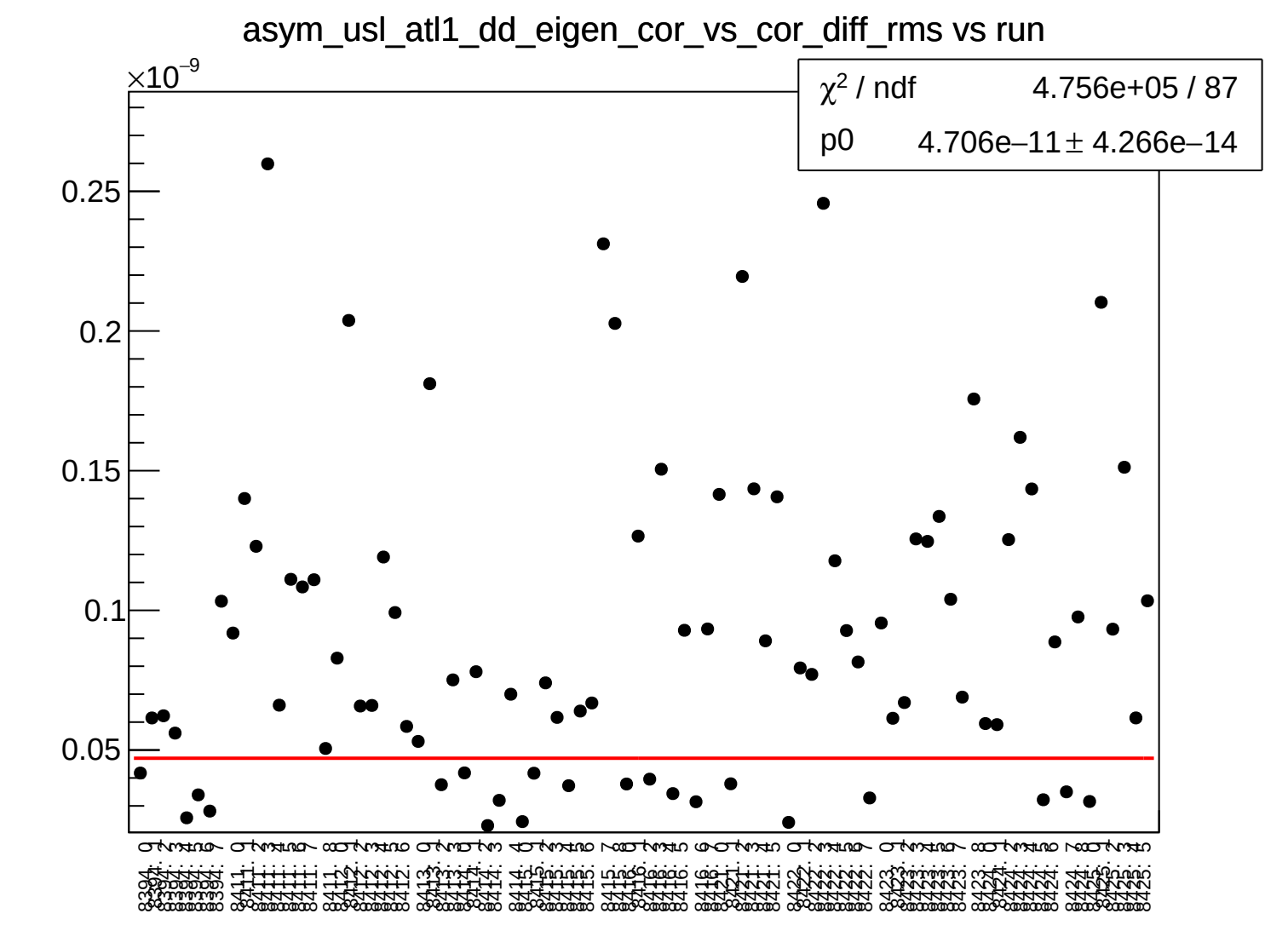

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.48 / 87
p0 −0.05467 ± 0.03362
pull
Entries 88
Mean 68.58
Std Dev 23.05
pull1D
Entries 88
Mean −0.06647
Std Dev 0.9834

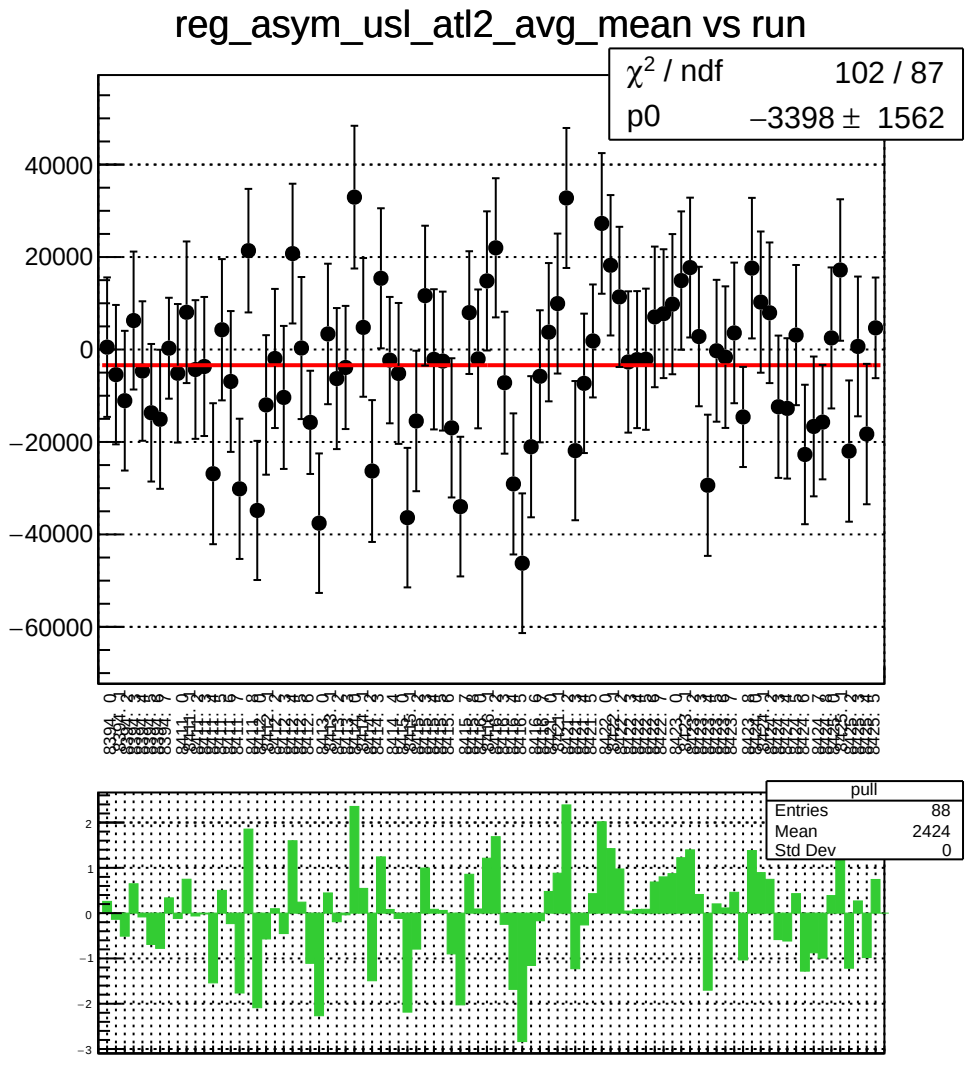

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.073e+05 / 87
p0 27.98 ± 0.02377
90
80
70
60
50
40
30
20
10

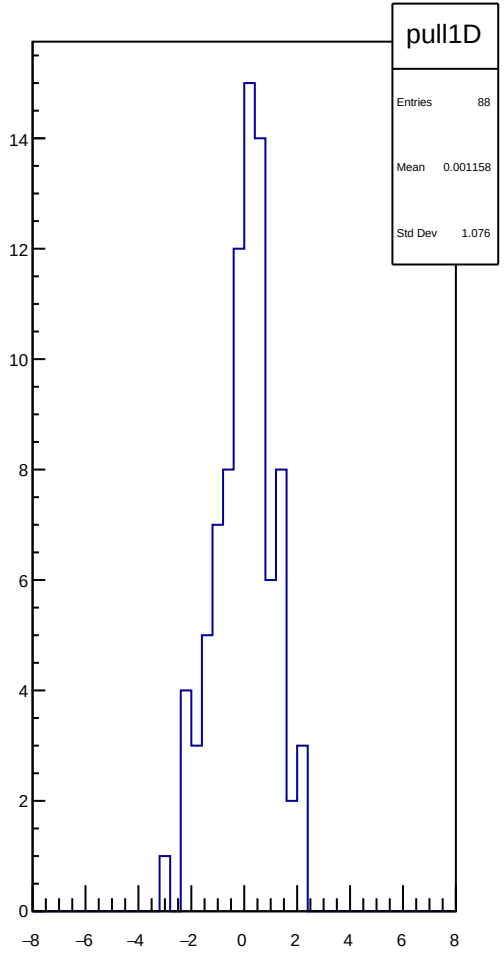

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.48 / 87
p0 −0.05467 ± 0.03362
pull
Entries 88
Mean 68.58
Std Dev 23.05
pull1D
Entries 88
Mean −0.06647
Std Dev 0.9834

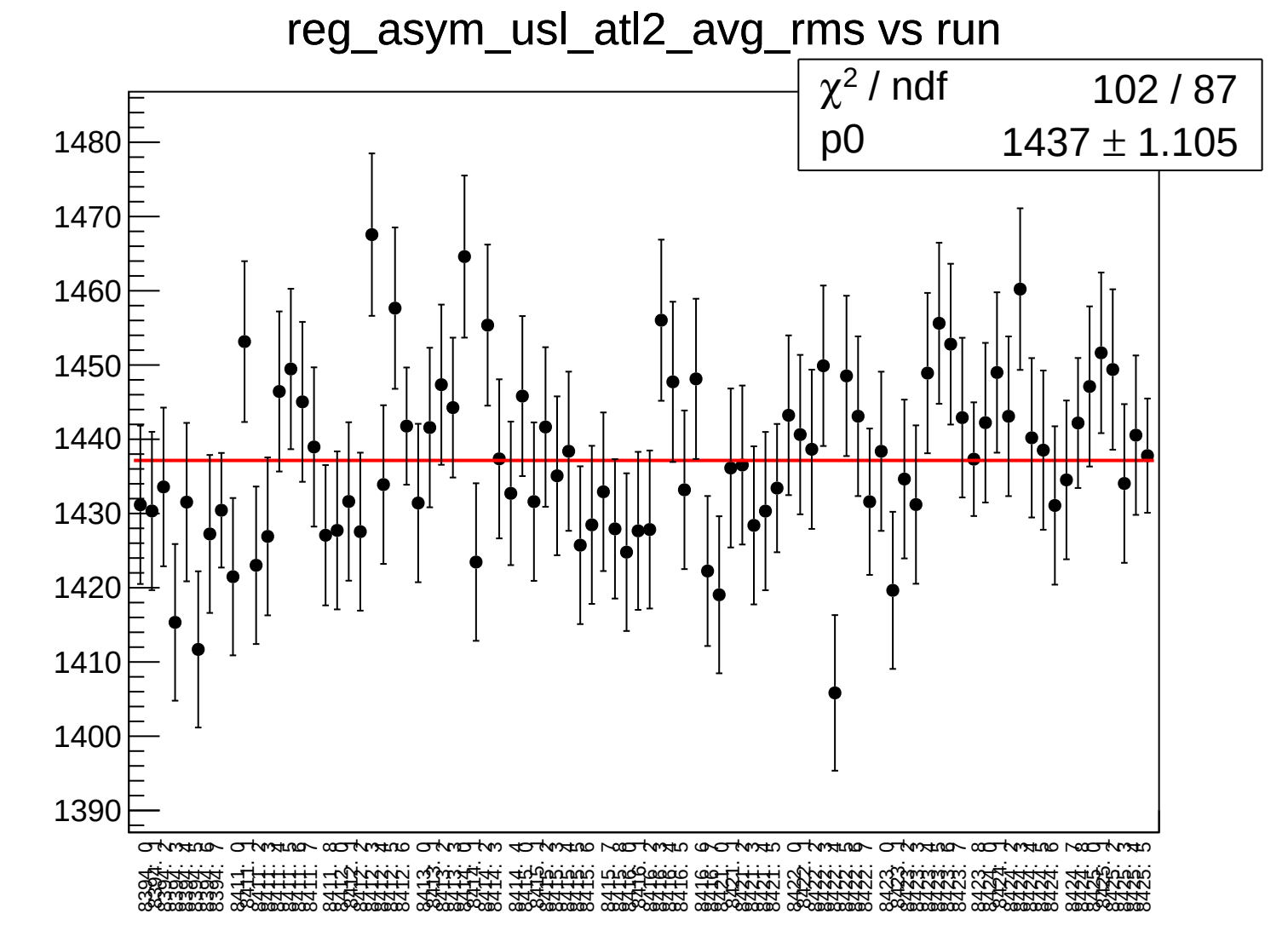

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.073e+05 / 87
p0 27.98 ± 0.02377
90
80
70
60
50
40
30
20
10

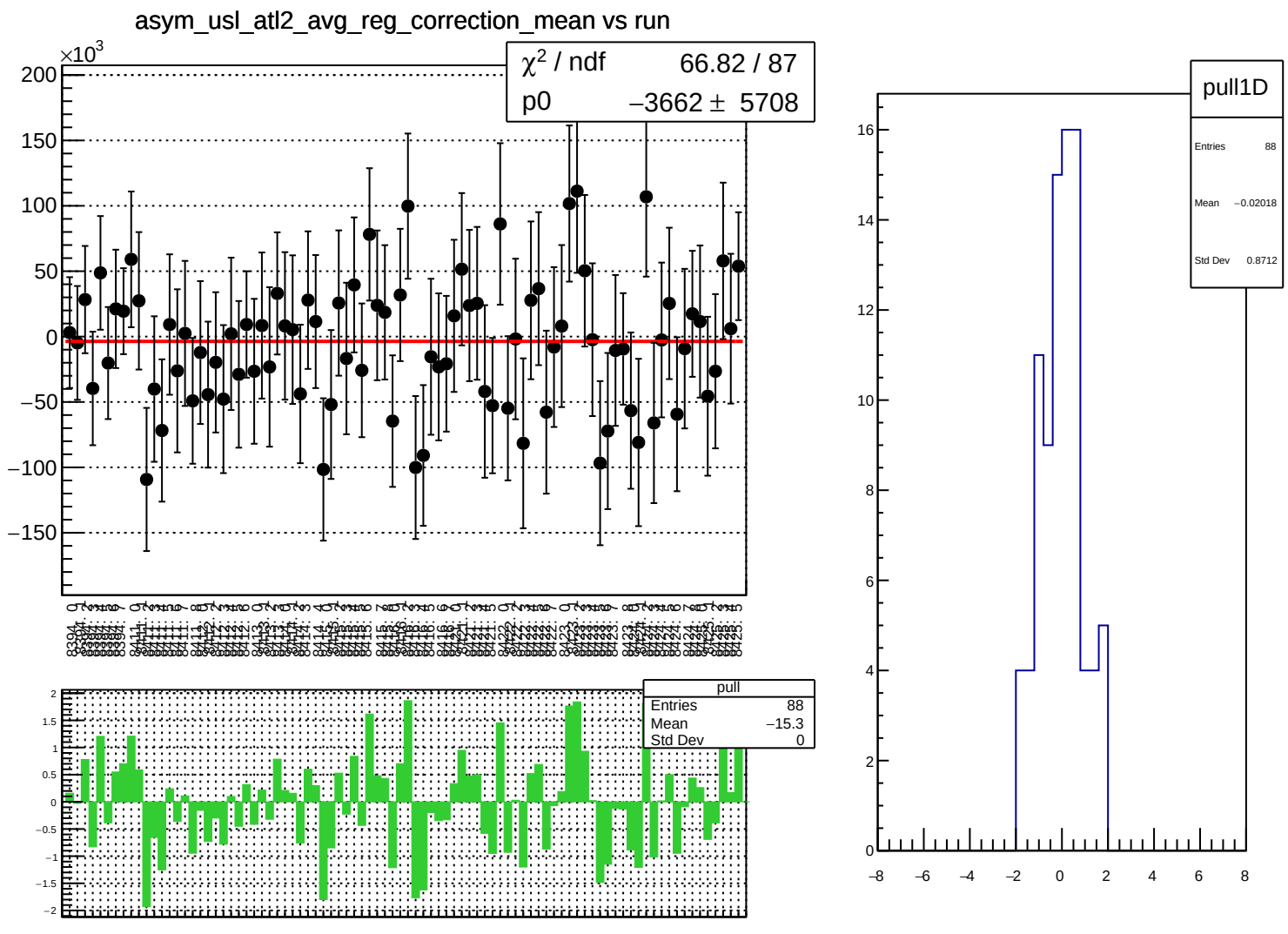

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.7 / 87
p0 4.173e−14 ± 6.032e−14
pull
Entries 88
Mean 120.4
Std Dev 0
pull1D
Entries 88
Mean −0.02217
Std Dev 1.053

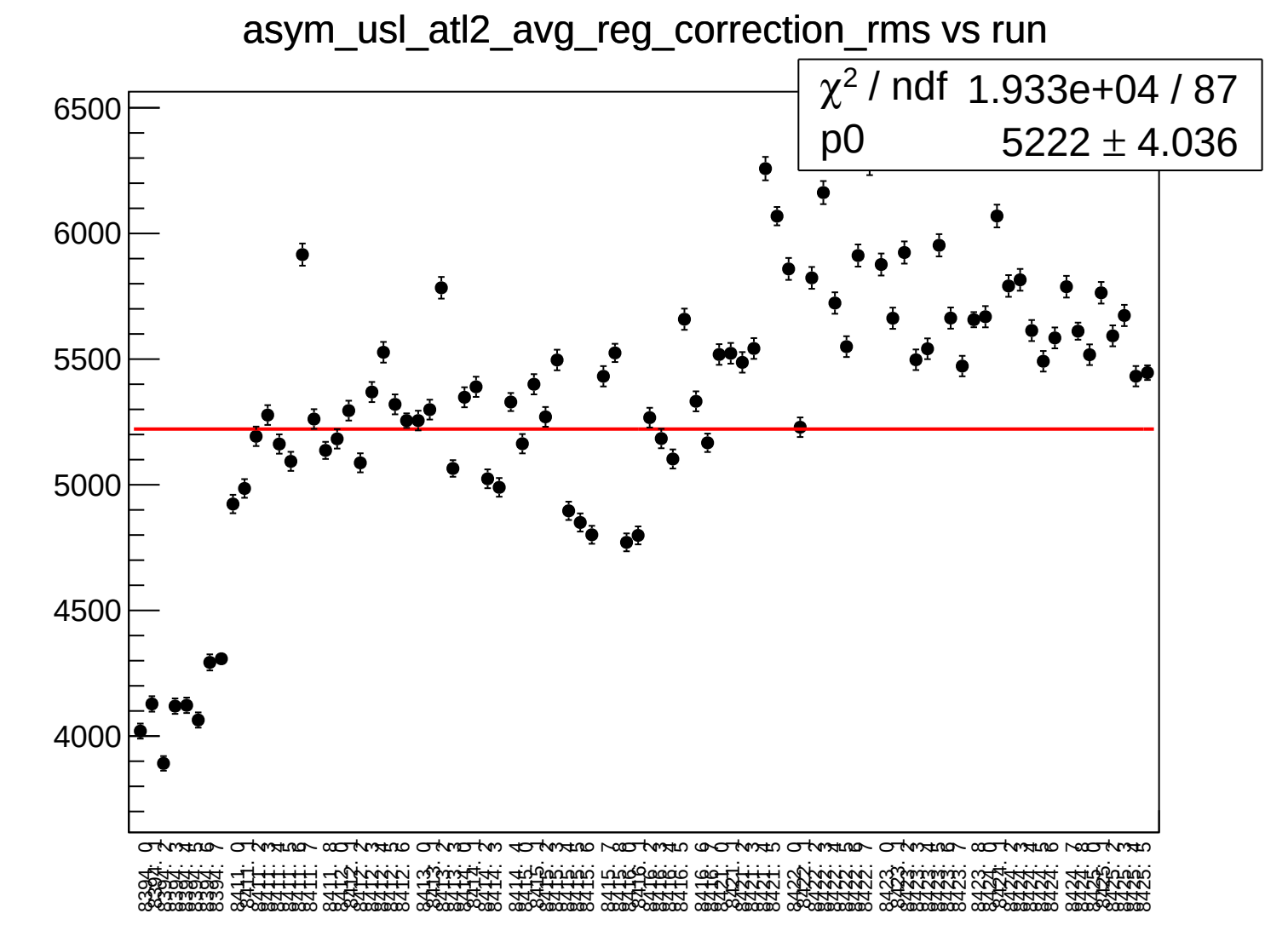

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.756e+05 / 87
p0 4.706e−11 ± 4.266e−14
0.25
0.2
0.15
0.1
0.05

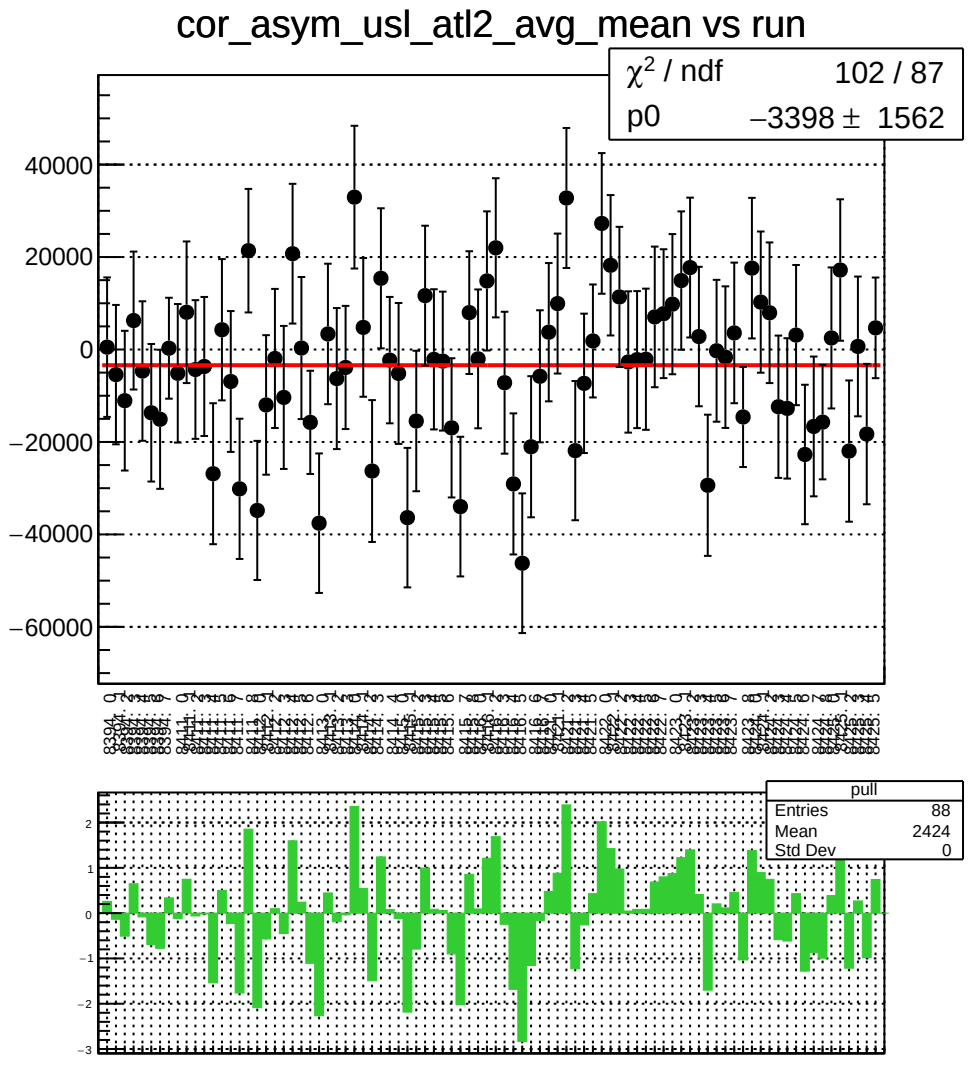

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 102 / 87
p0 −3398 ± 1562
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 2424
Std Dev 0
2
1
0
−1
−2
−3

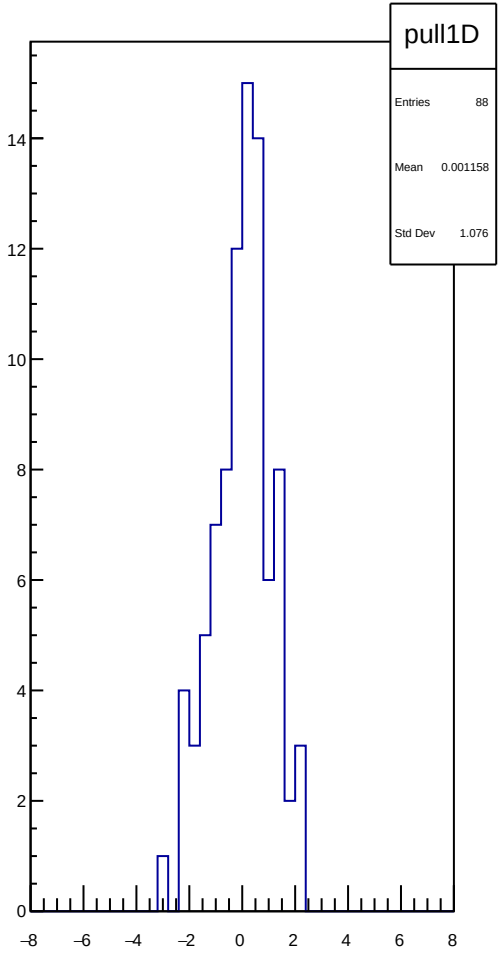

pull1D
Entries 88
Mean 0.001158
Std Dev 1.076
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

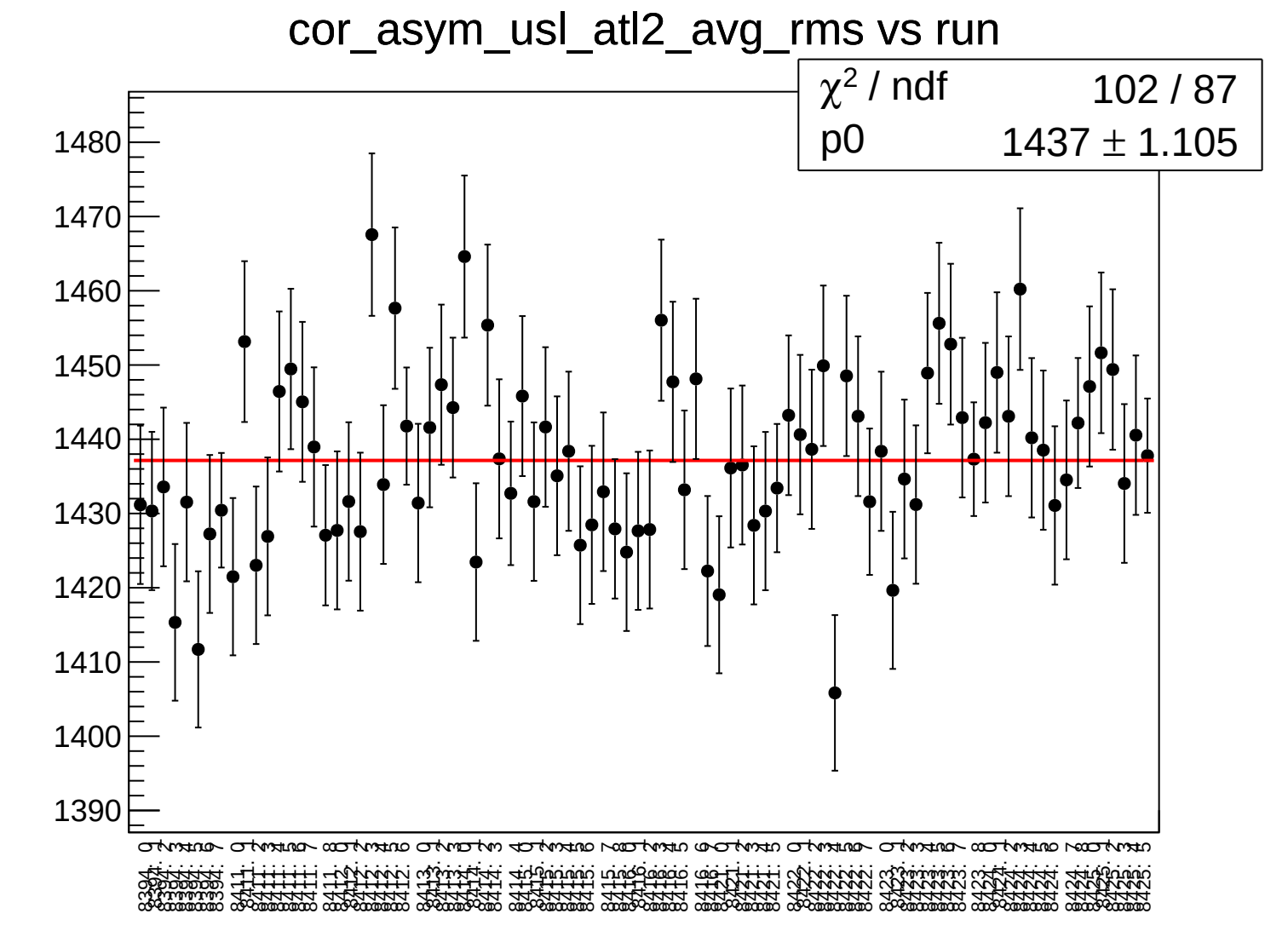

reg_asym_usl_atl2_avg_rms vs run
χ^2 / ndf 102 / 87
p0 1437 ± 1.105
1480
1470
1460
1450
1440
1430
1420
1410
1400
1390

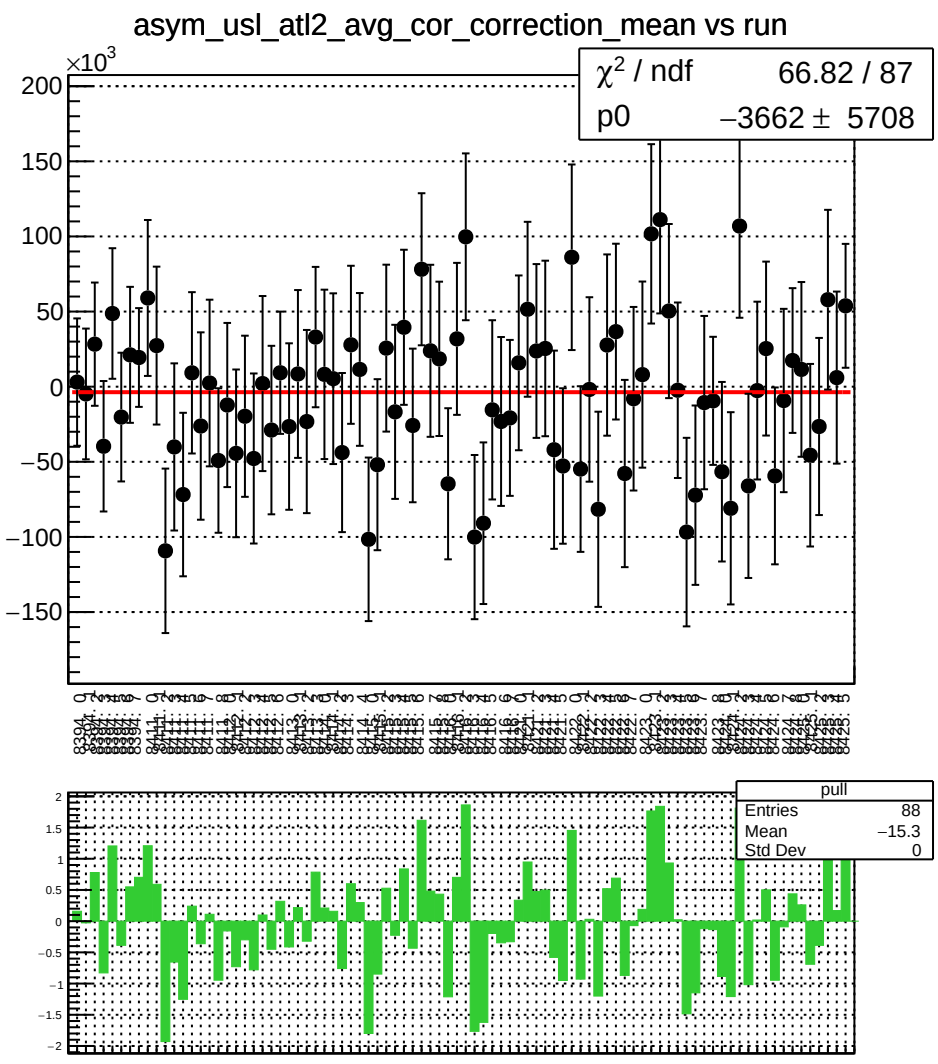

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 66.82 / 87
p0 −3662 ± 5708
pull
Entries 88
Mean −15.3
Std Dev 0
pull1D
Entries 88
Mean −0.02018
Std Dev 0.8712

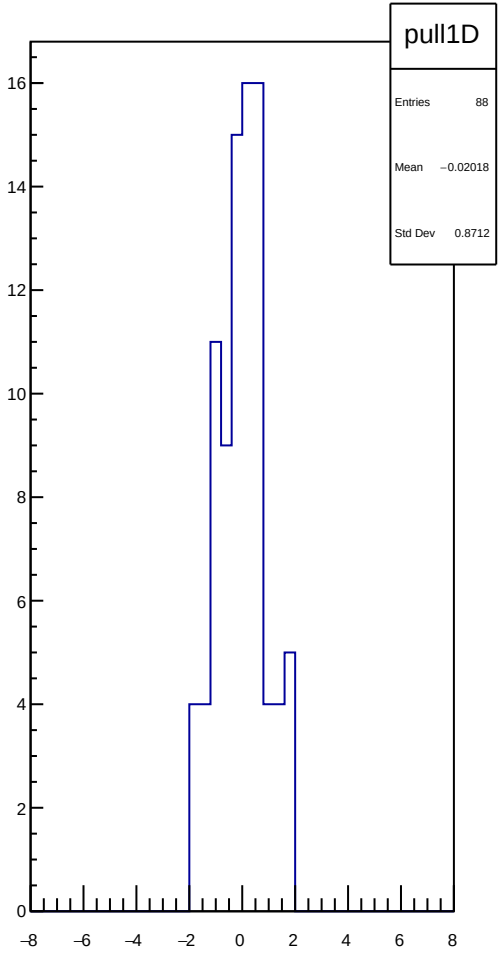

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 1.933e+04 / 87
p0 5222 ± 4.036
6500
6000
5500
5000
4500
4000

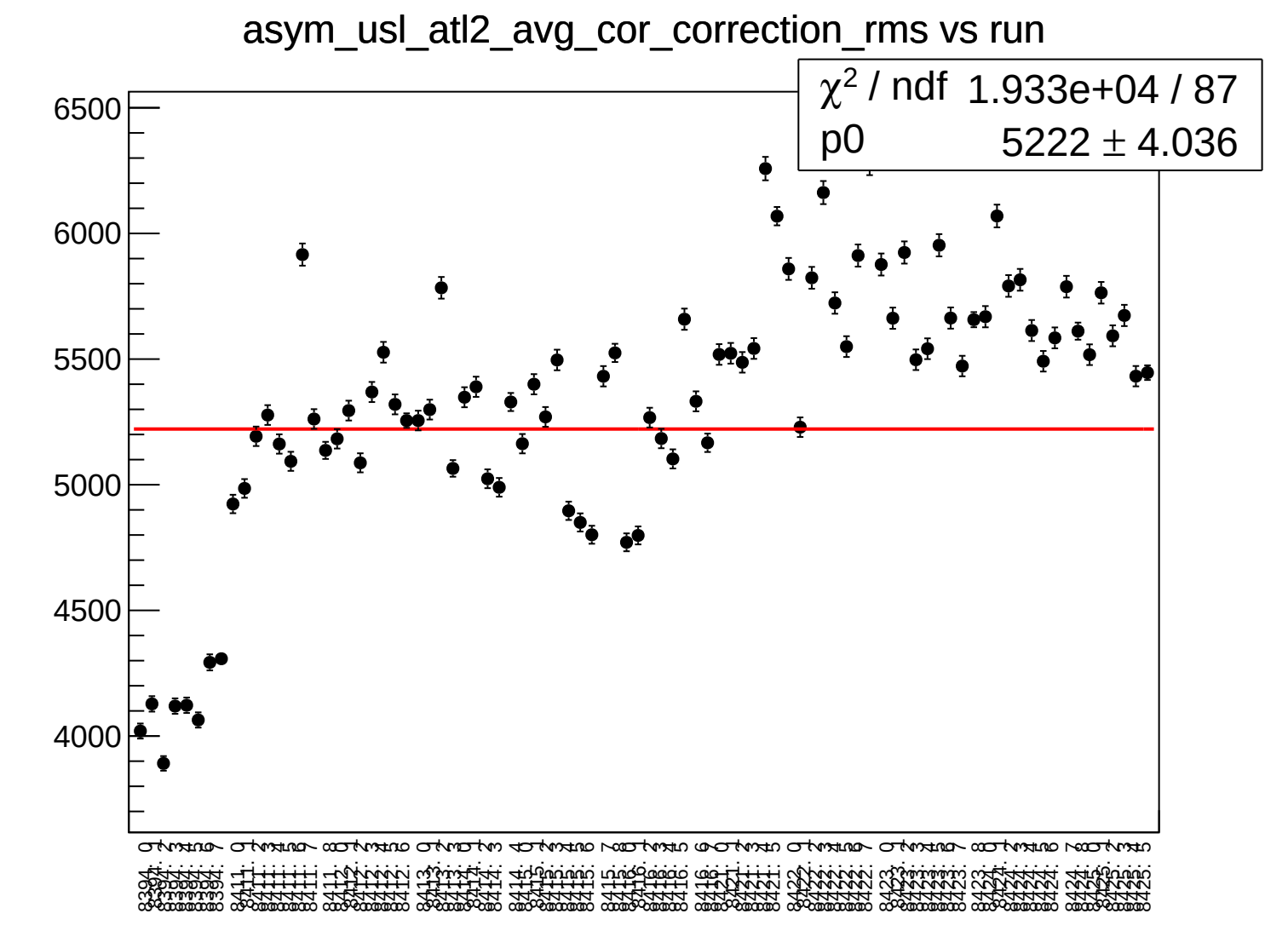

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 102 / 87
p0 −3398 ± 1562
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 2424
Std Dev 0
2
1
0
−1
−2
−3

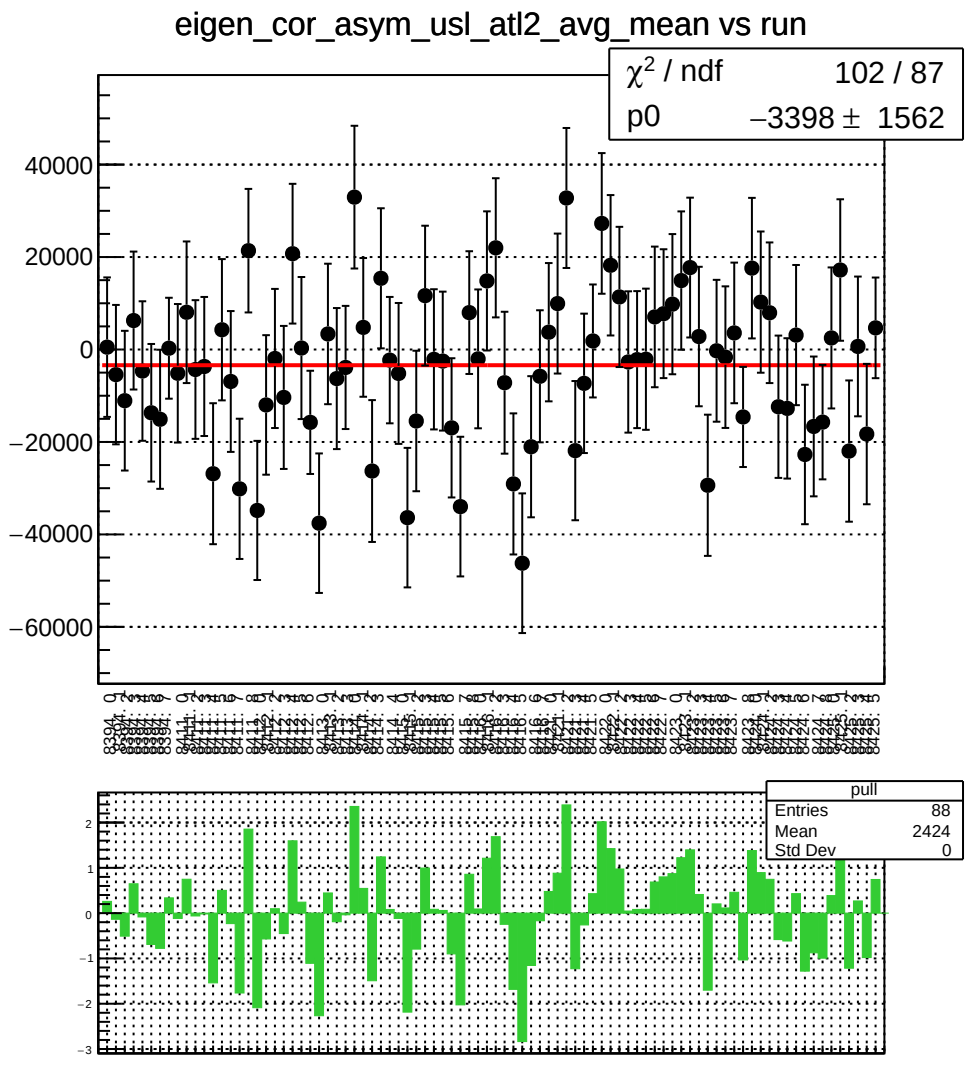

pull1D
Entries 88
Mean 0.001158
Std Dev 1.076
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

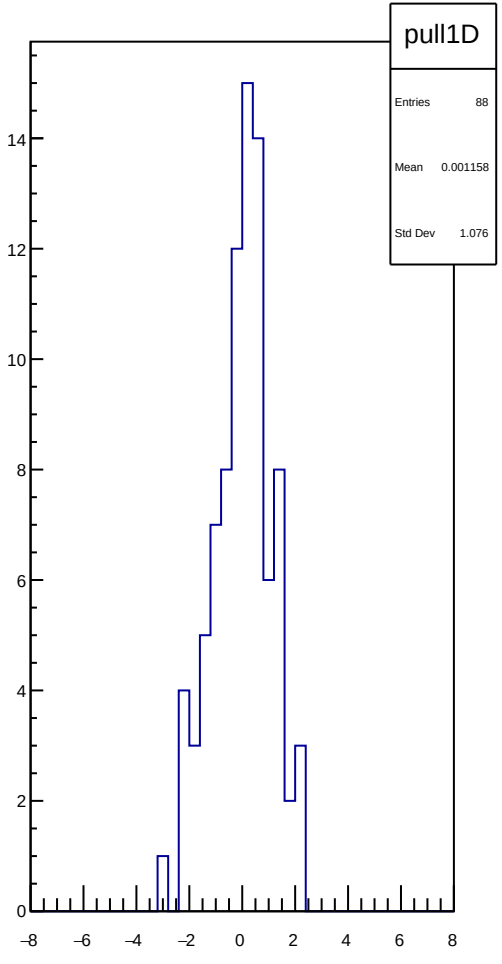

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 102 / 87
p0 1437 ± 1.105
1480
1470
1460
1450
1440
1430
1420
1410
1400
1390

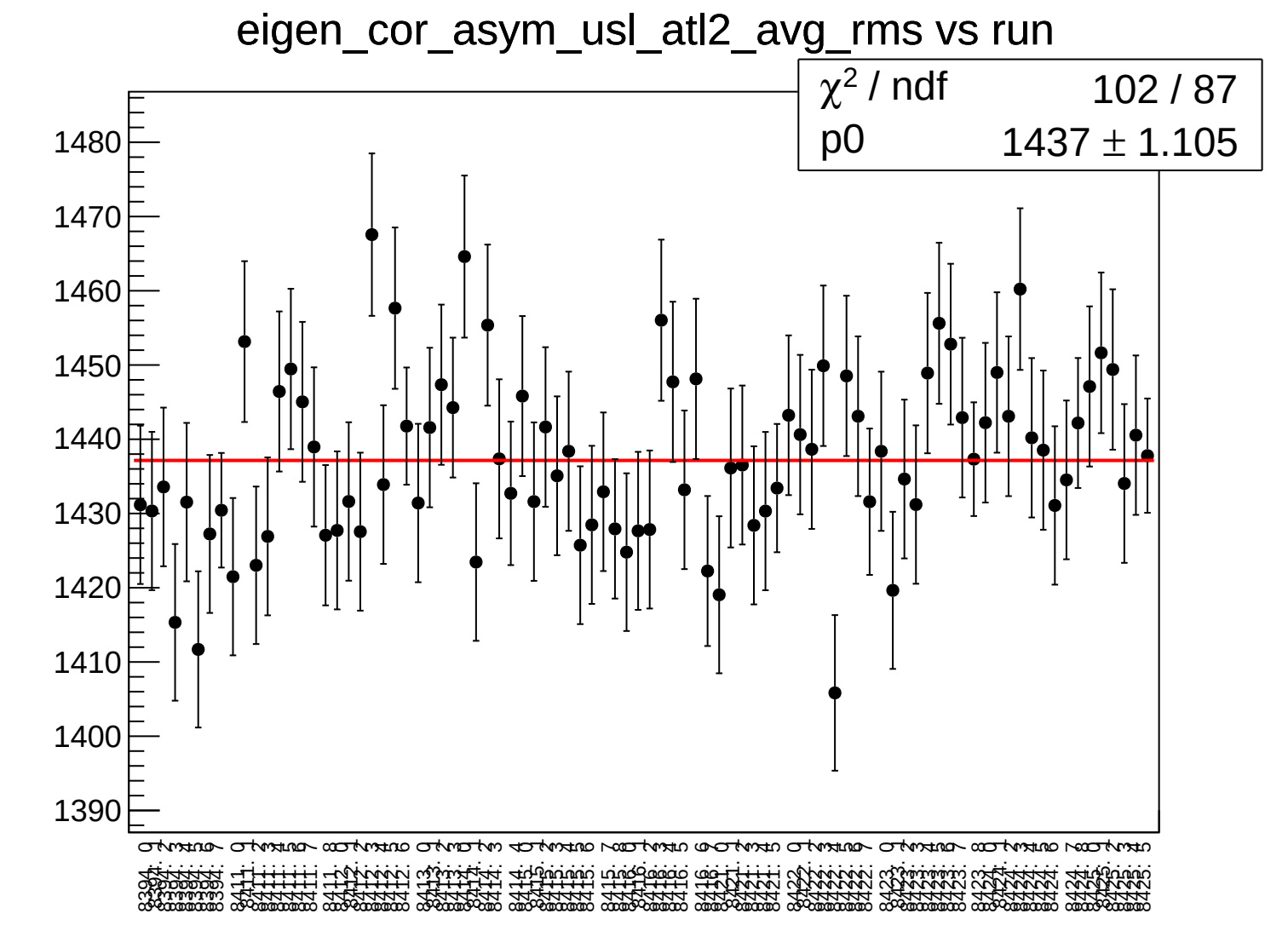

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 66.82 / 87
p0 −3662 ± 5708
pull
Entries 88
Mean −15.3
Std Dev 0

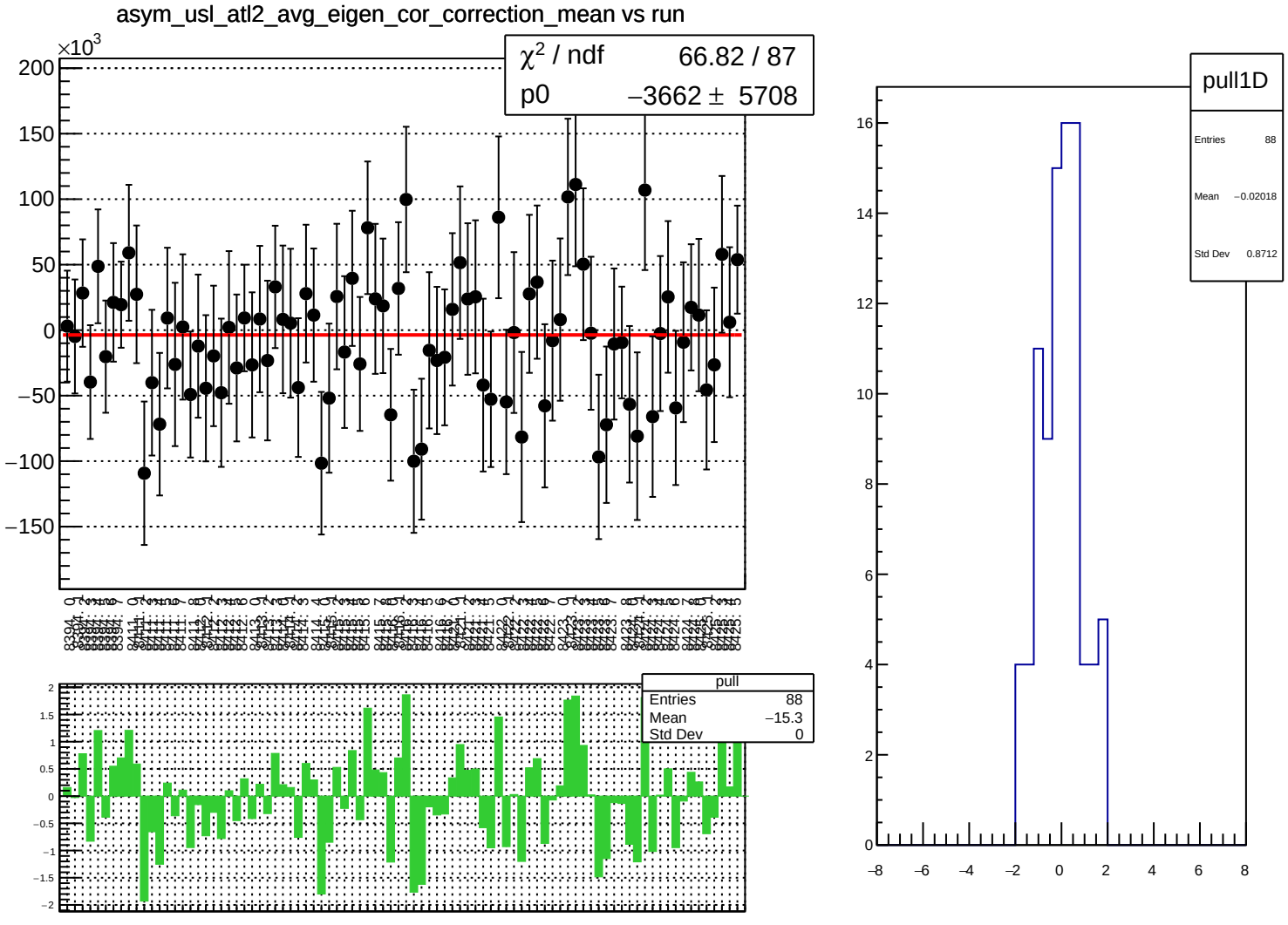

pull1D
Entries 88
Mean −0.02018
Std Dev 0.8712

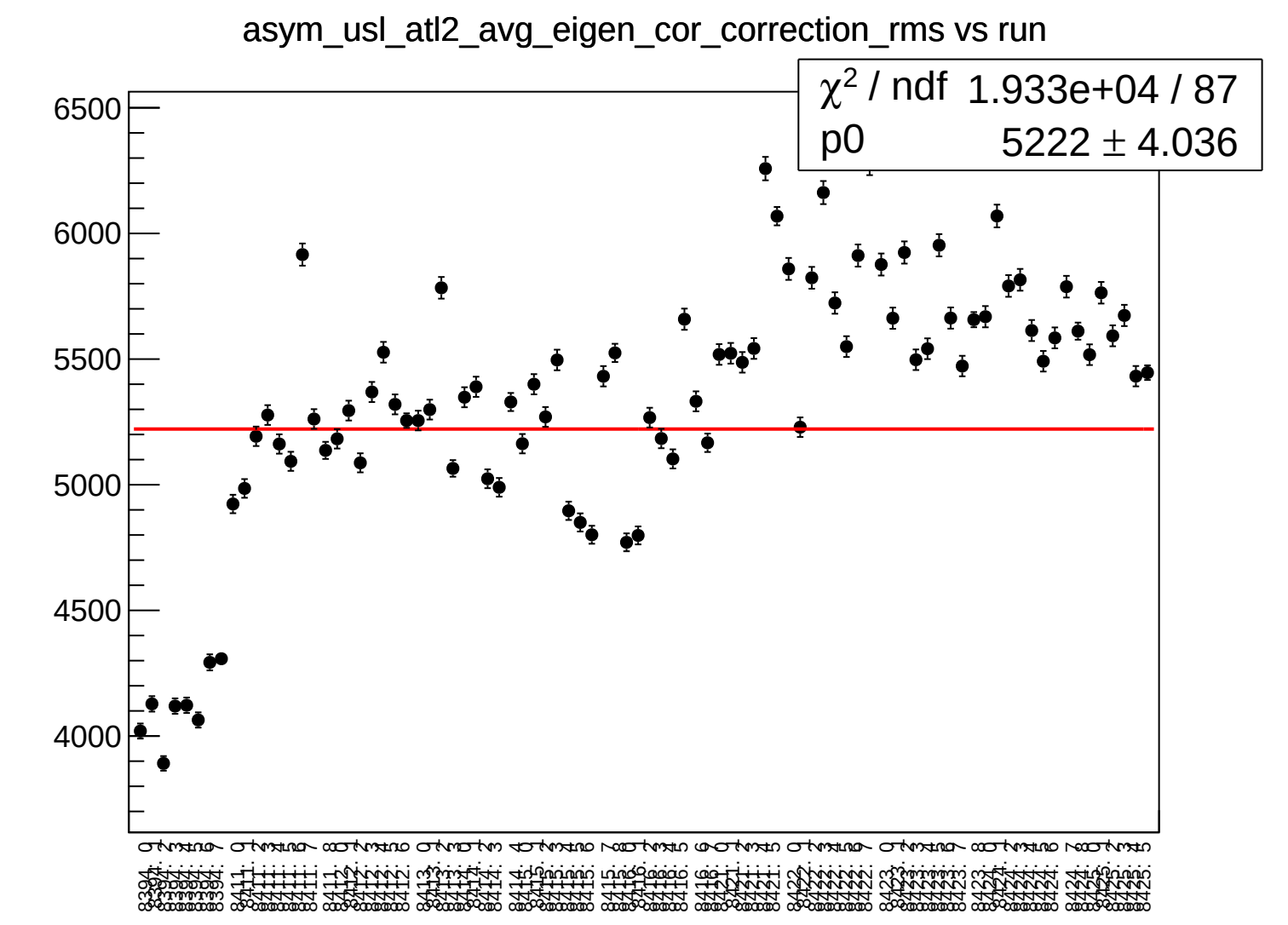

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 1.933e+04 / 87
p0 5222 ± 4.036
6500
6000
5500
5000
4500
4000

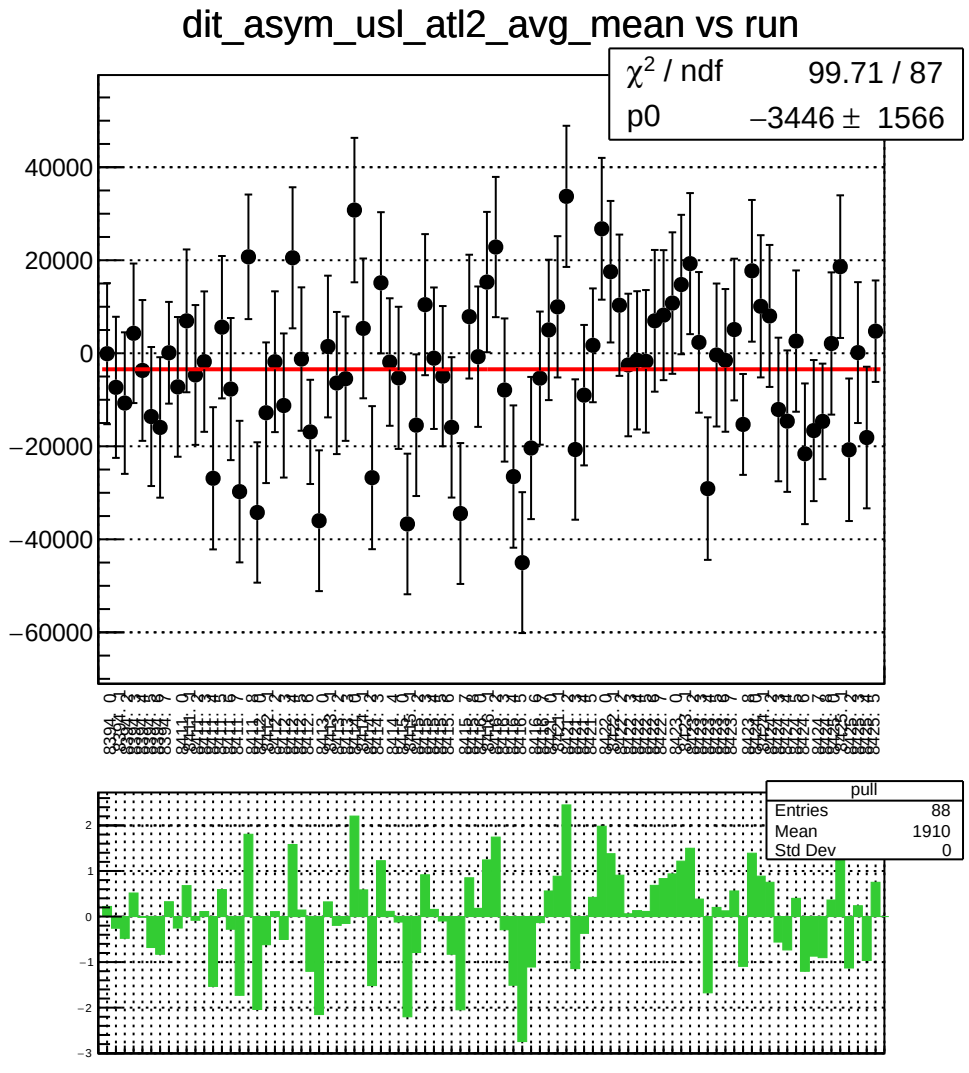

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 102 / 87
p0 −3398 ± 1562
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 2424
Std Dev 0
2
1
0
−1
−2
−3

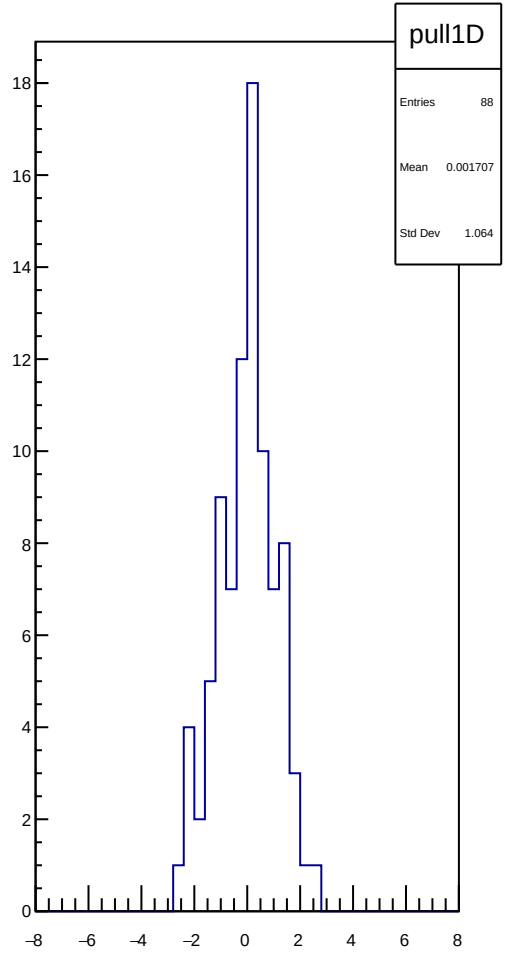

pull1D
Entries 88
Mean 0.001158
Std Dev 1.076
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

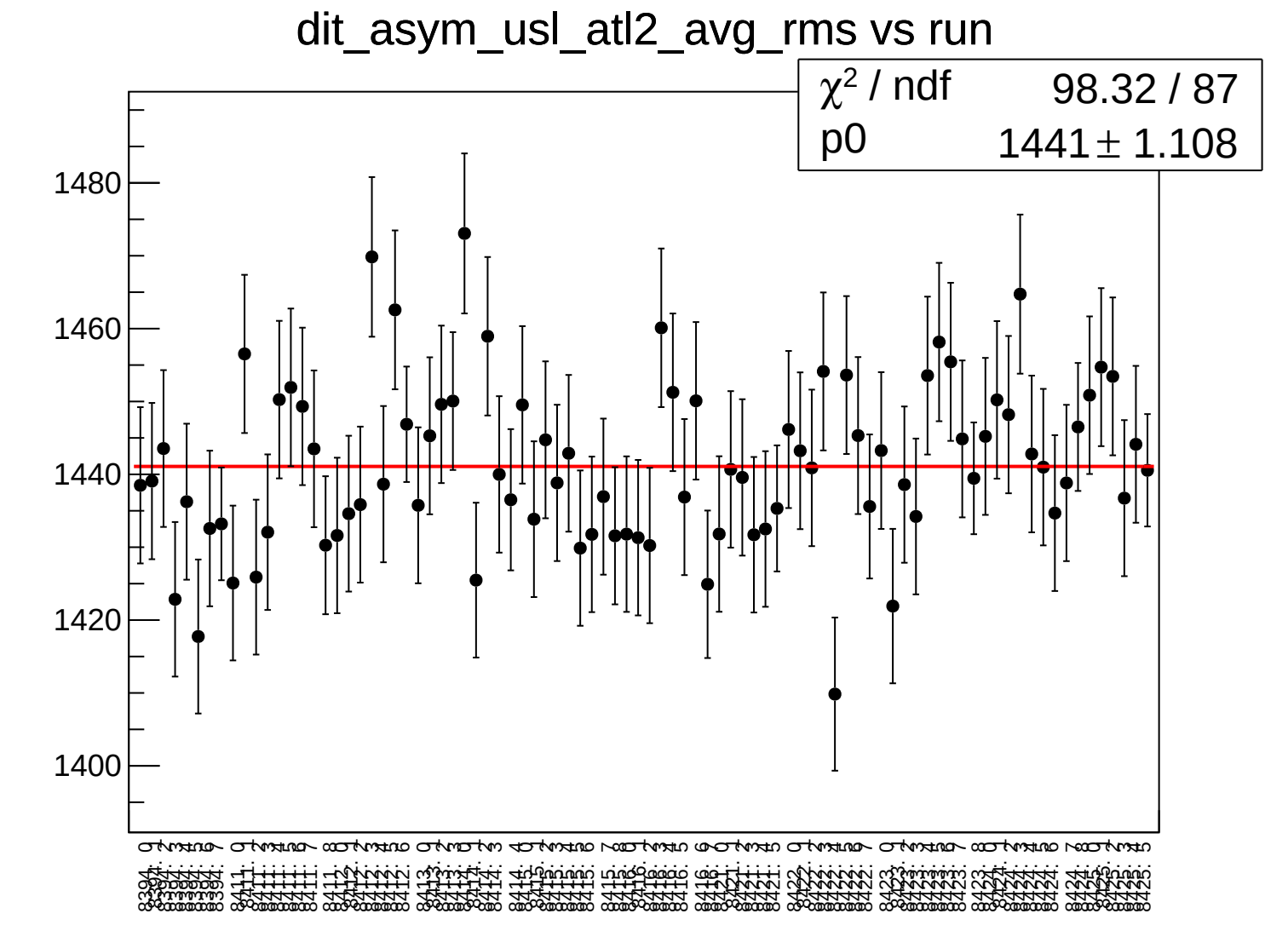

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 102 / 87
p0 1437 ± 1.105
1480
1470
1460
1450
1440
1430
1420
1410
1400
1390

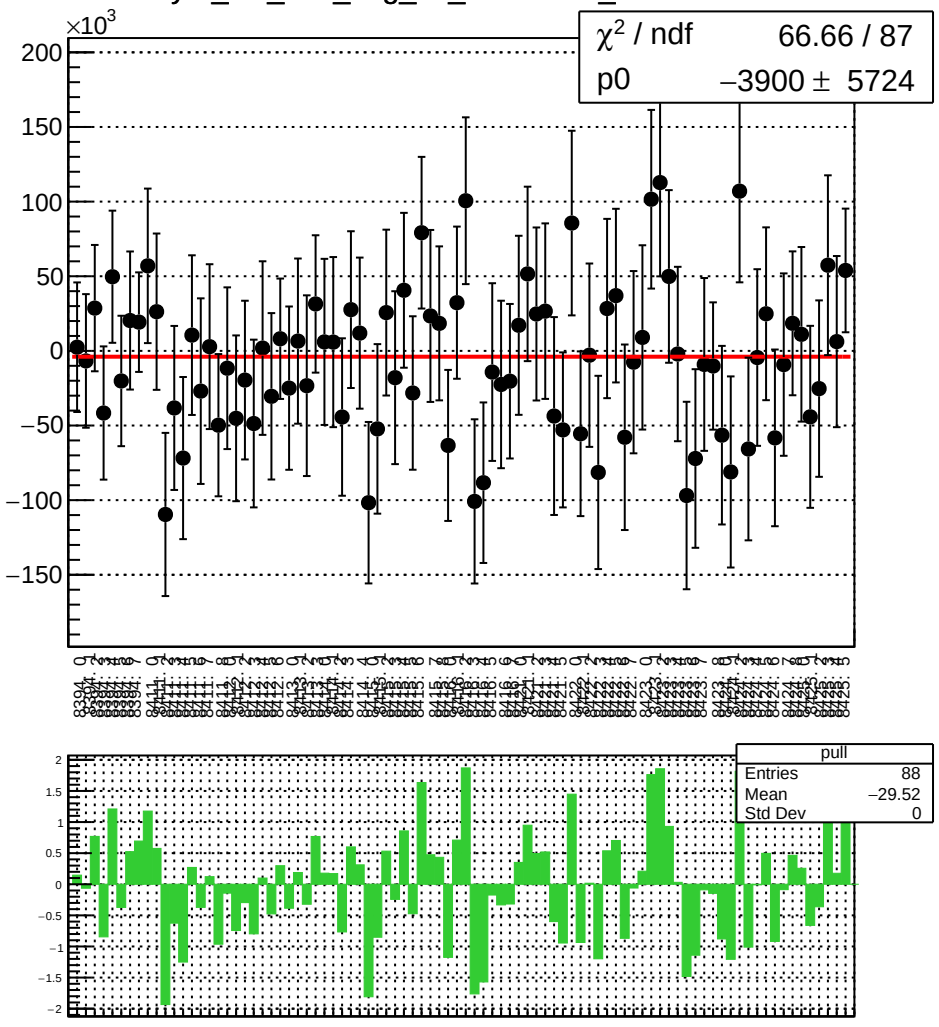

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 66.82 / 87
p0 −3662 ± 5708
pull
Entries 88
Mean −15.3
Std Dev 0
pull1D
Entries 88
Mean −0.02018
Std Dev 0.8712

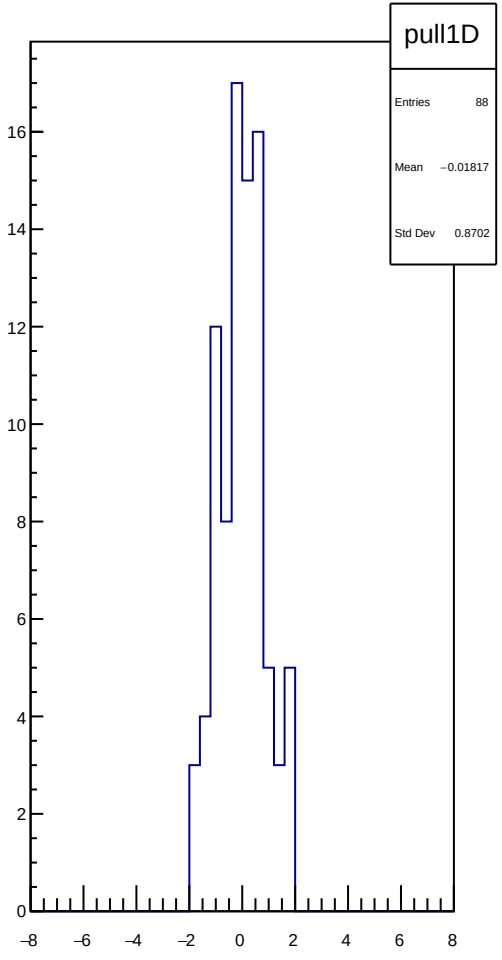

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.933e+04 / 87
p0 5222 ± 4.036
6500
6000
5500
5000
4500
4000

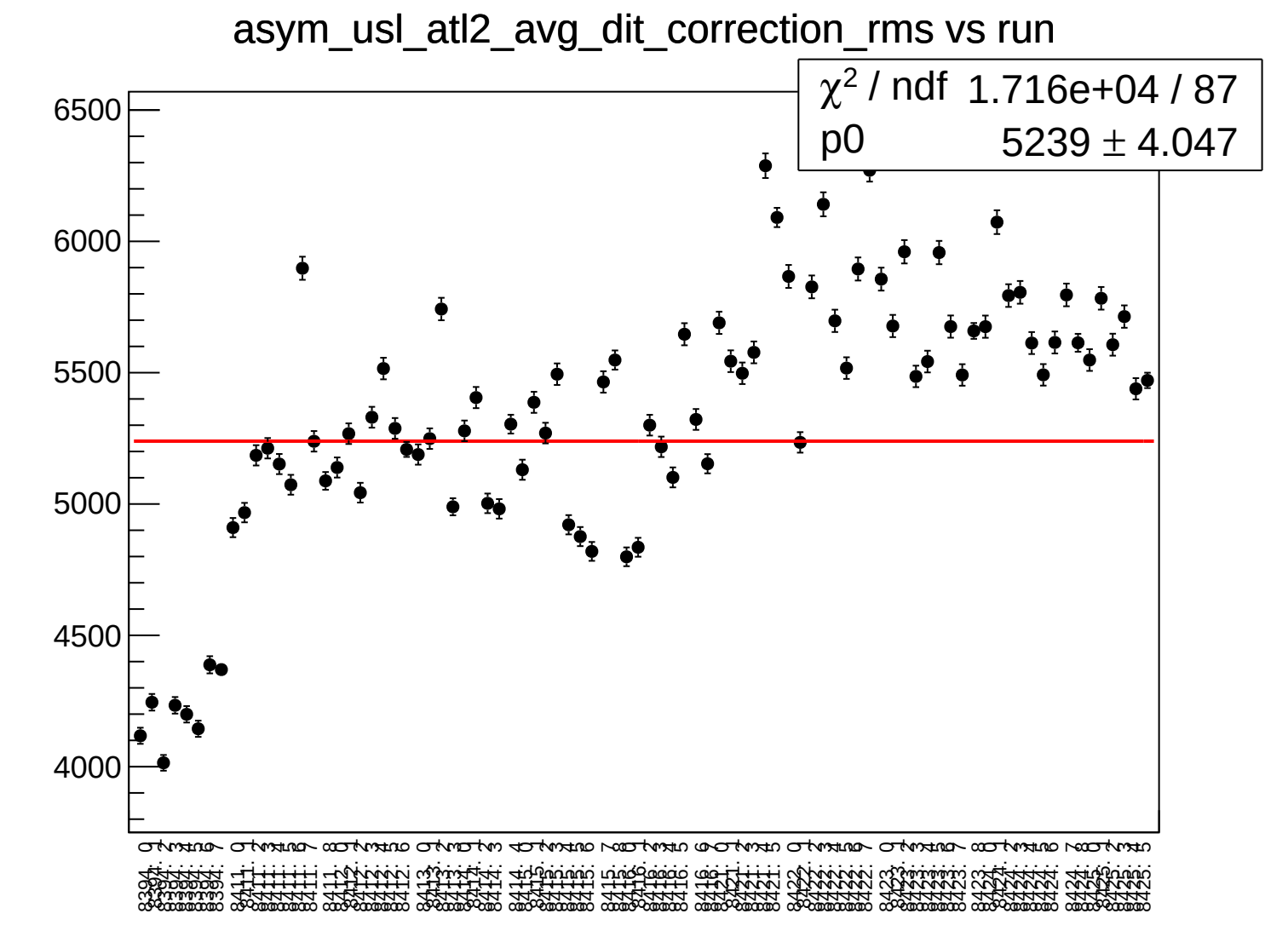

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 99.71 / 87
p0 −3446 ± 1566
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 1910
Std Dev 0
2
1
0
−1
−2
−3

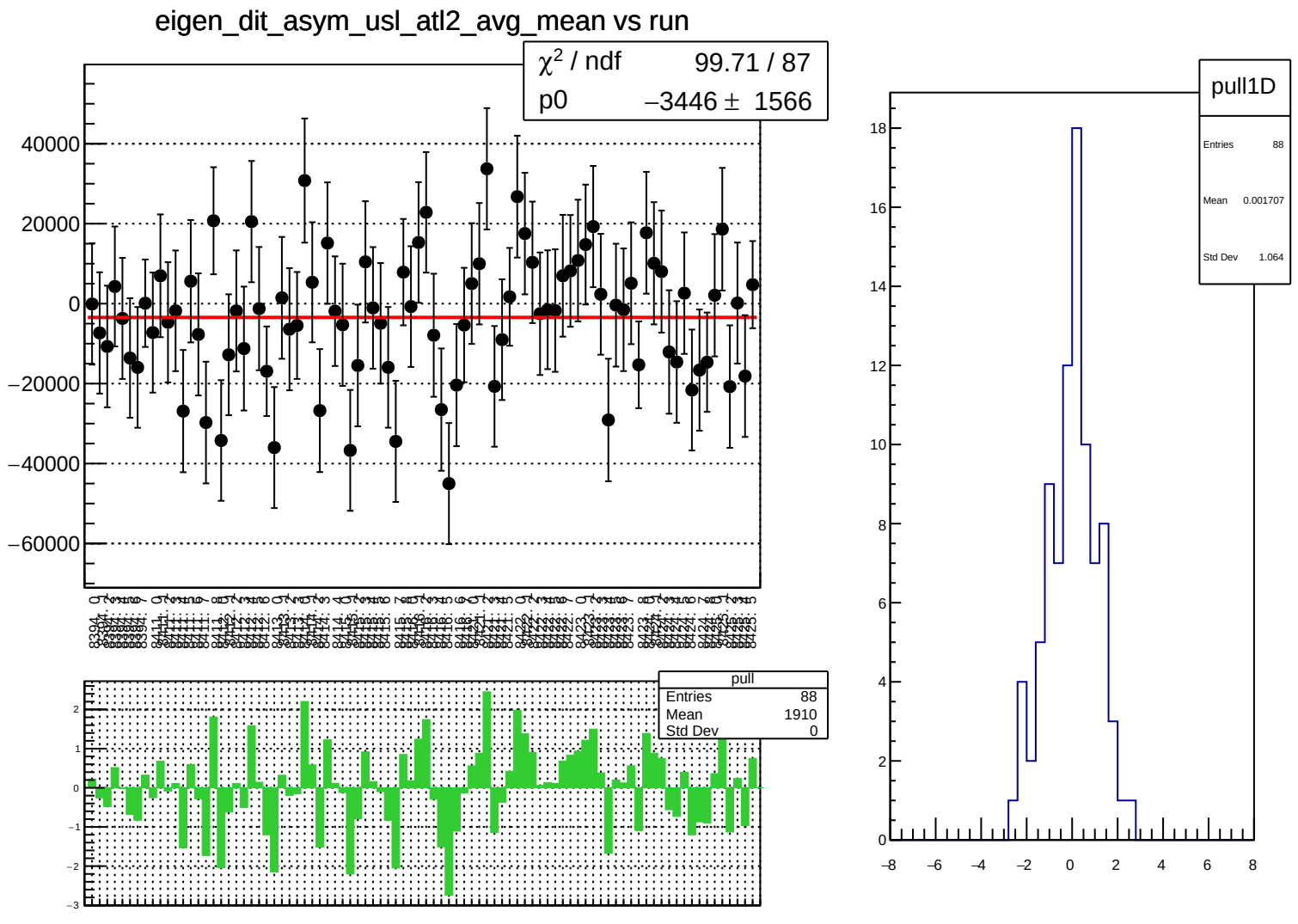

pull1D
Entries 88
Mean 0.001707
Std Dev 1.064
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

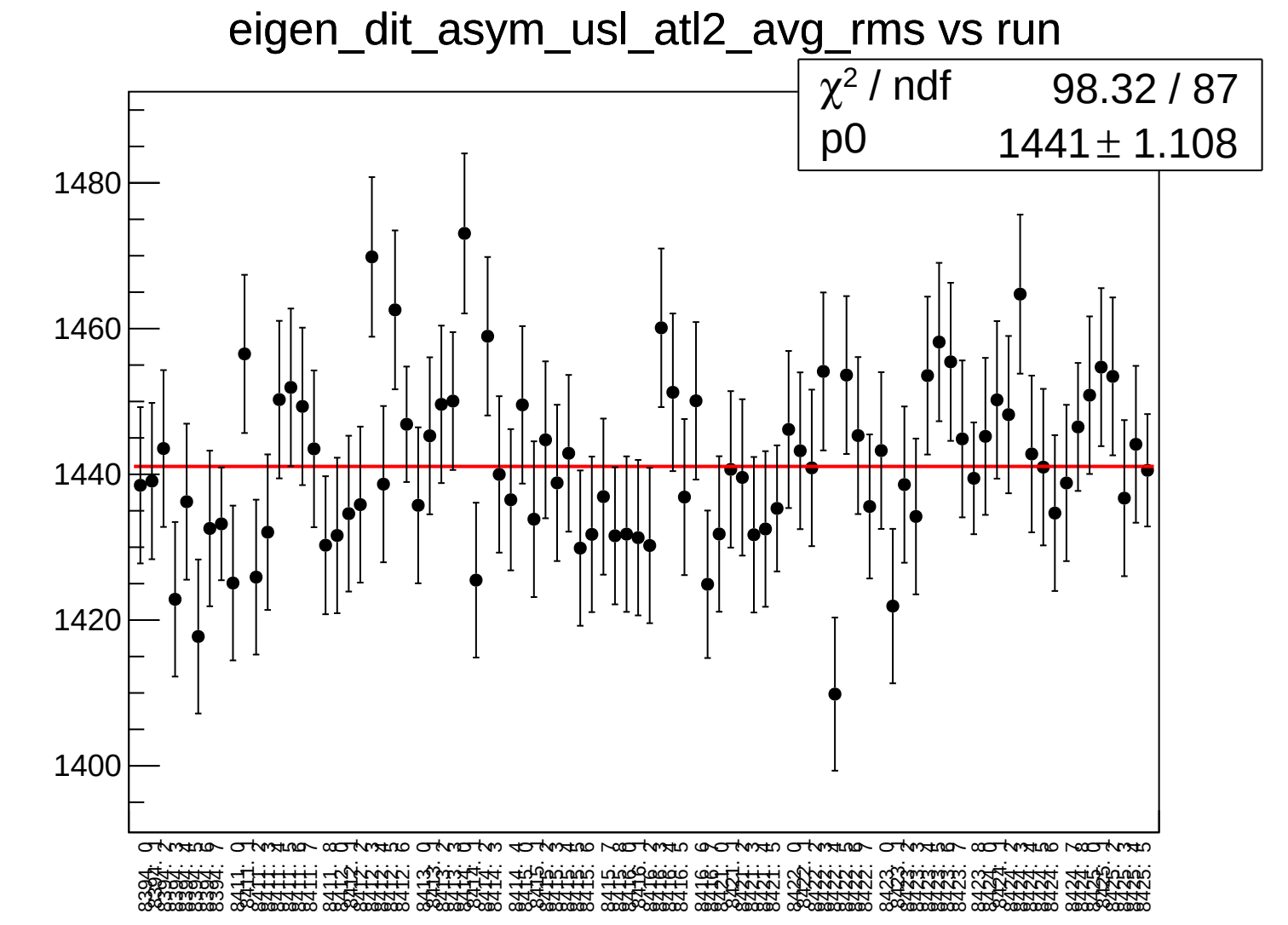

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 98.32 / 87
p0 1441 ± 1.108
1480
1460
1440
1420
1400

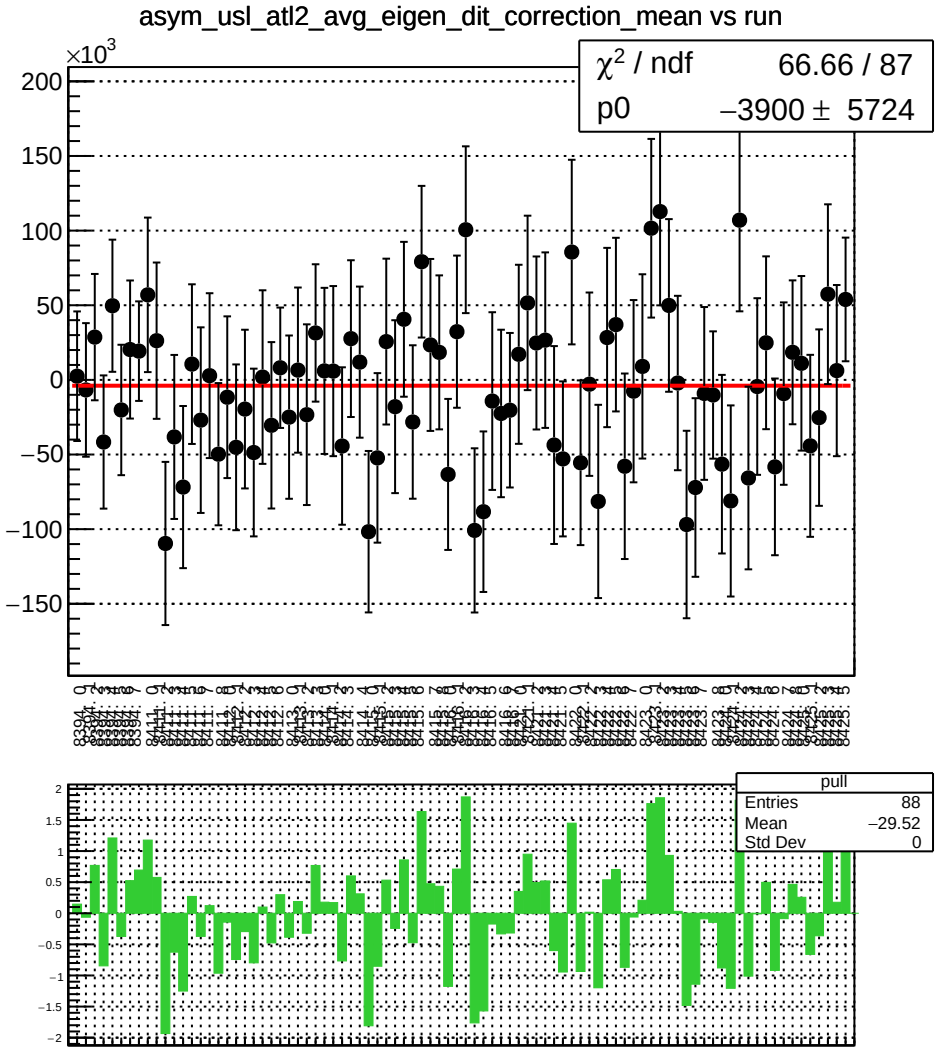

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 66.66 / 87
p0 −3900 ± 5724
pull
Entries 88
Mean −29.52
Std Dev 0

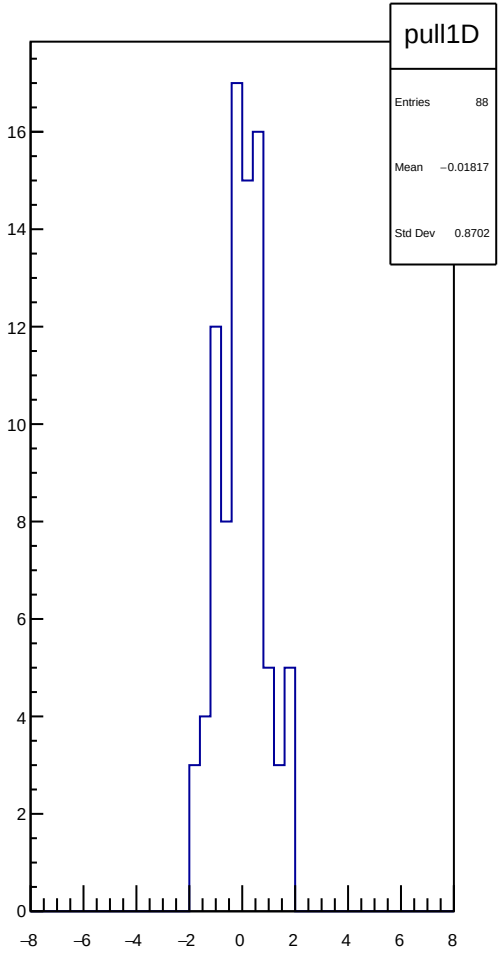

pull1D
Entries 88
Mean −0.01817
Std Dev 0.8702

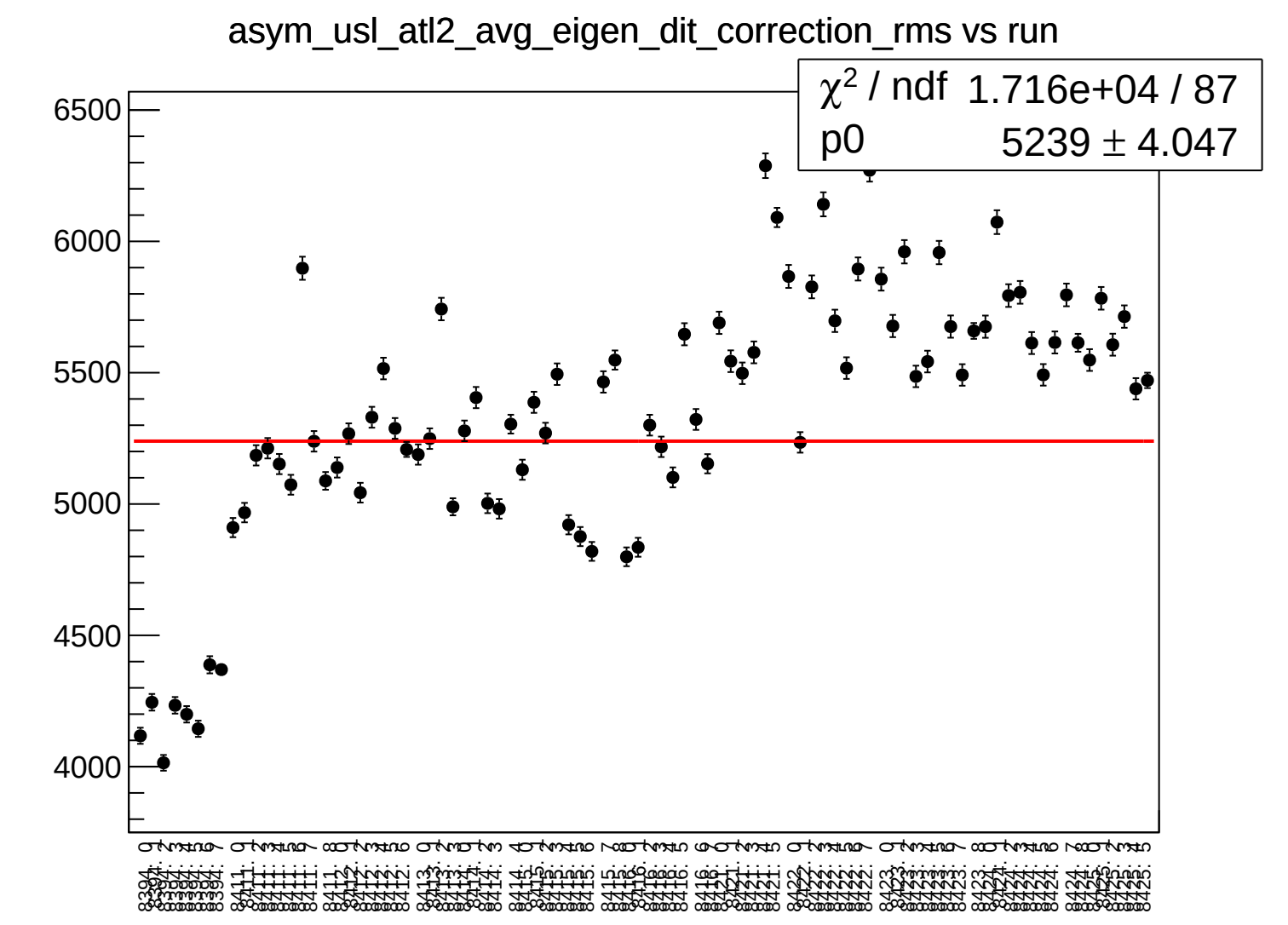

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 1.716e+04 / 87
p0 5239 ± 4.047
6500
6000
5500
5000
4500
4000

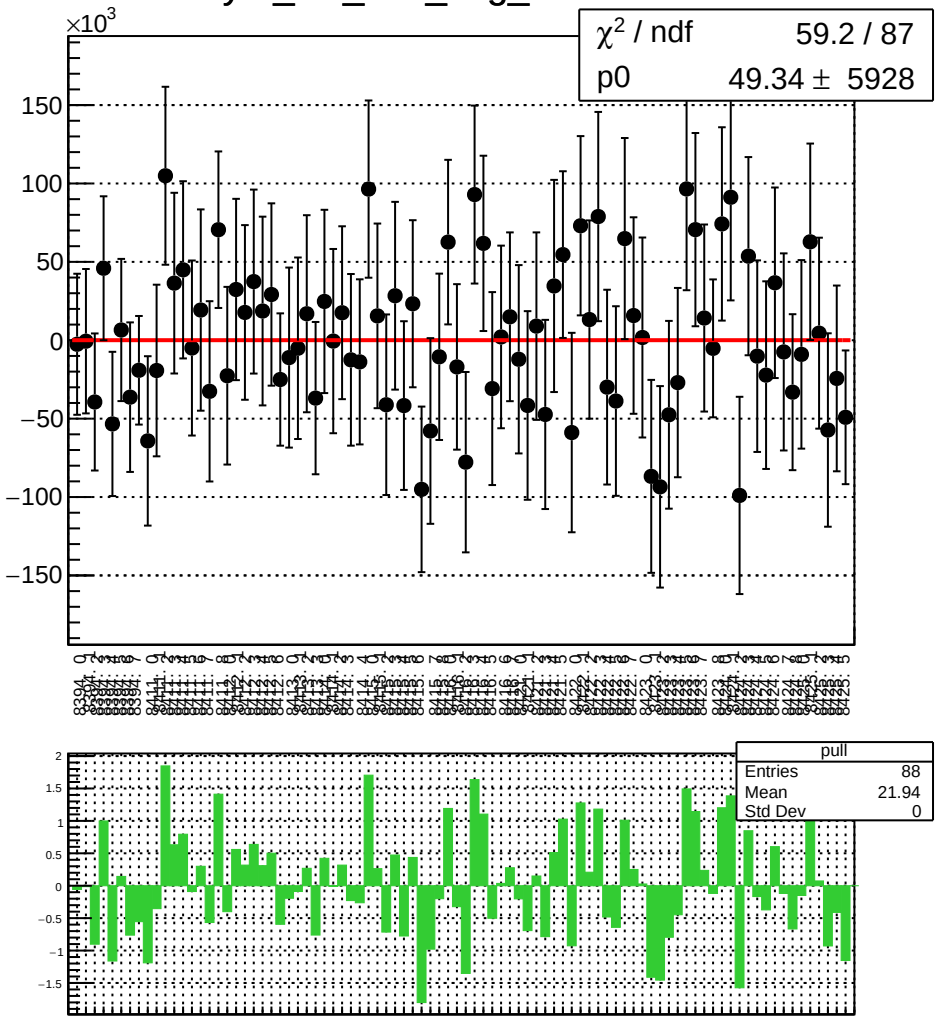

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 99.71 / 87
p0 −3446 ± 1566
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 1910
Std Dev 0
pull1D
Entries 88
Mean 0.001707
Std Dev 1.064
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

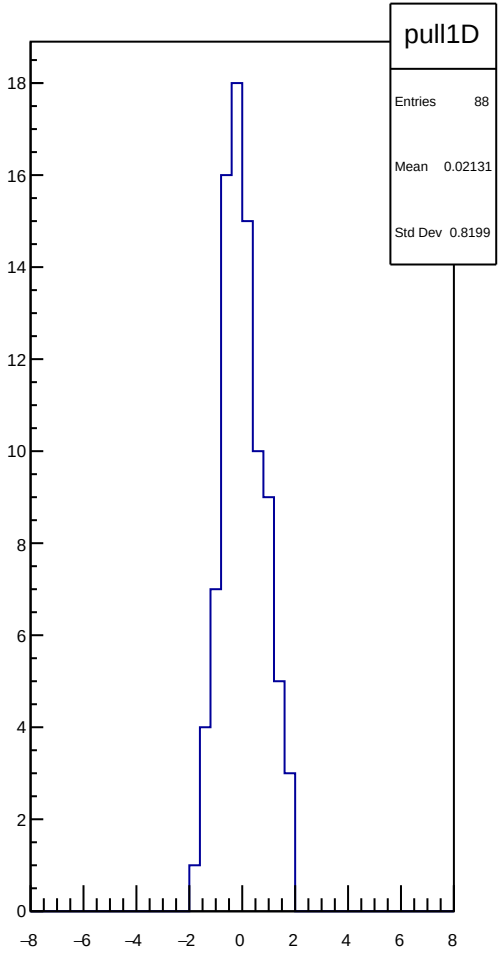

eigen_dit_asym_usl_atl2_avg_rms vs run
χ^2 / ndf 98.32 / 87
p0 1441 ± 1.108
1480
1460
1440
1420
1400

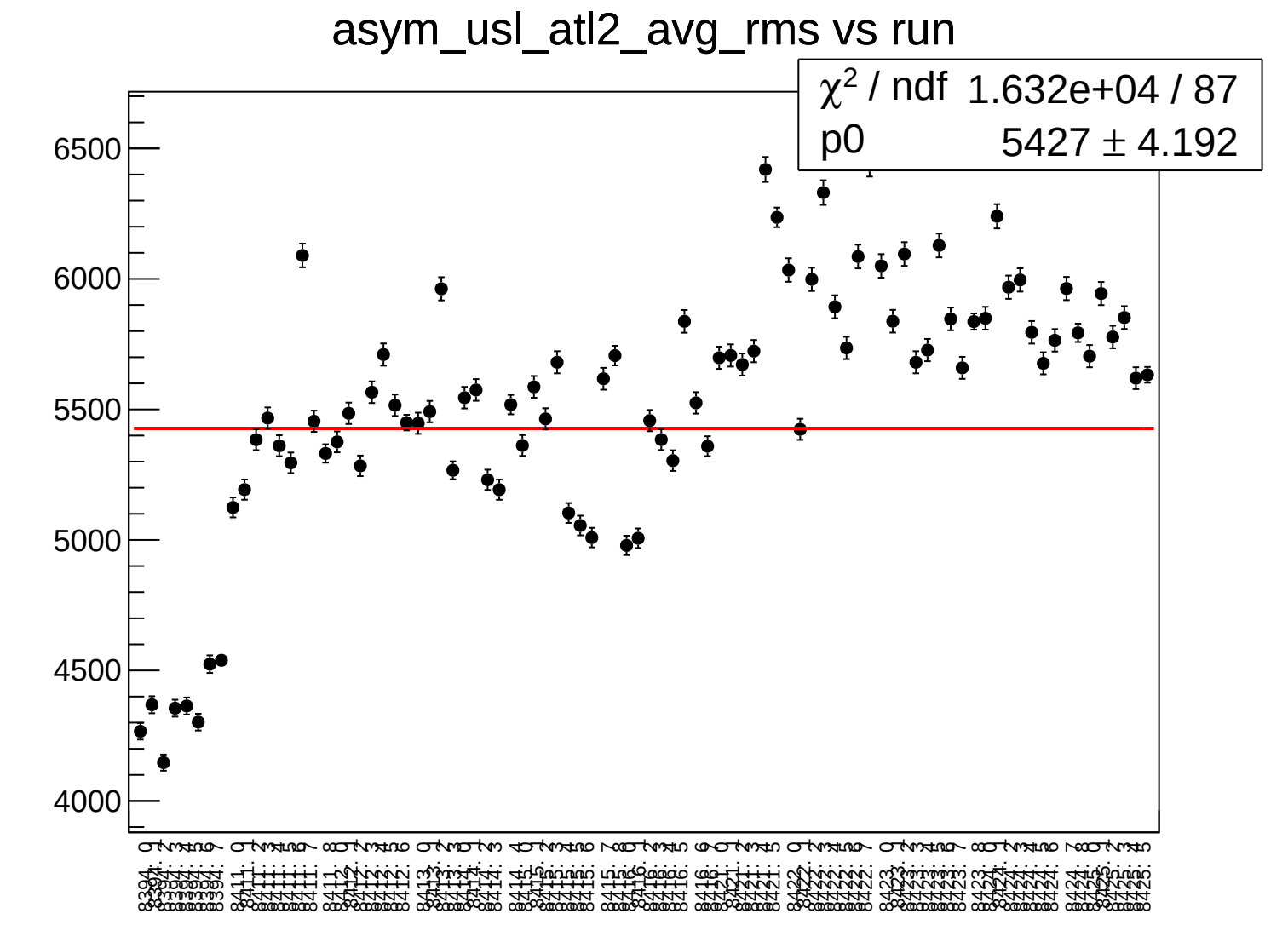

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 66.66 / 87
p0 −3900 ± 5724
pull
Entries 88
Mean −29.52
Std Dev 0

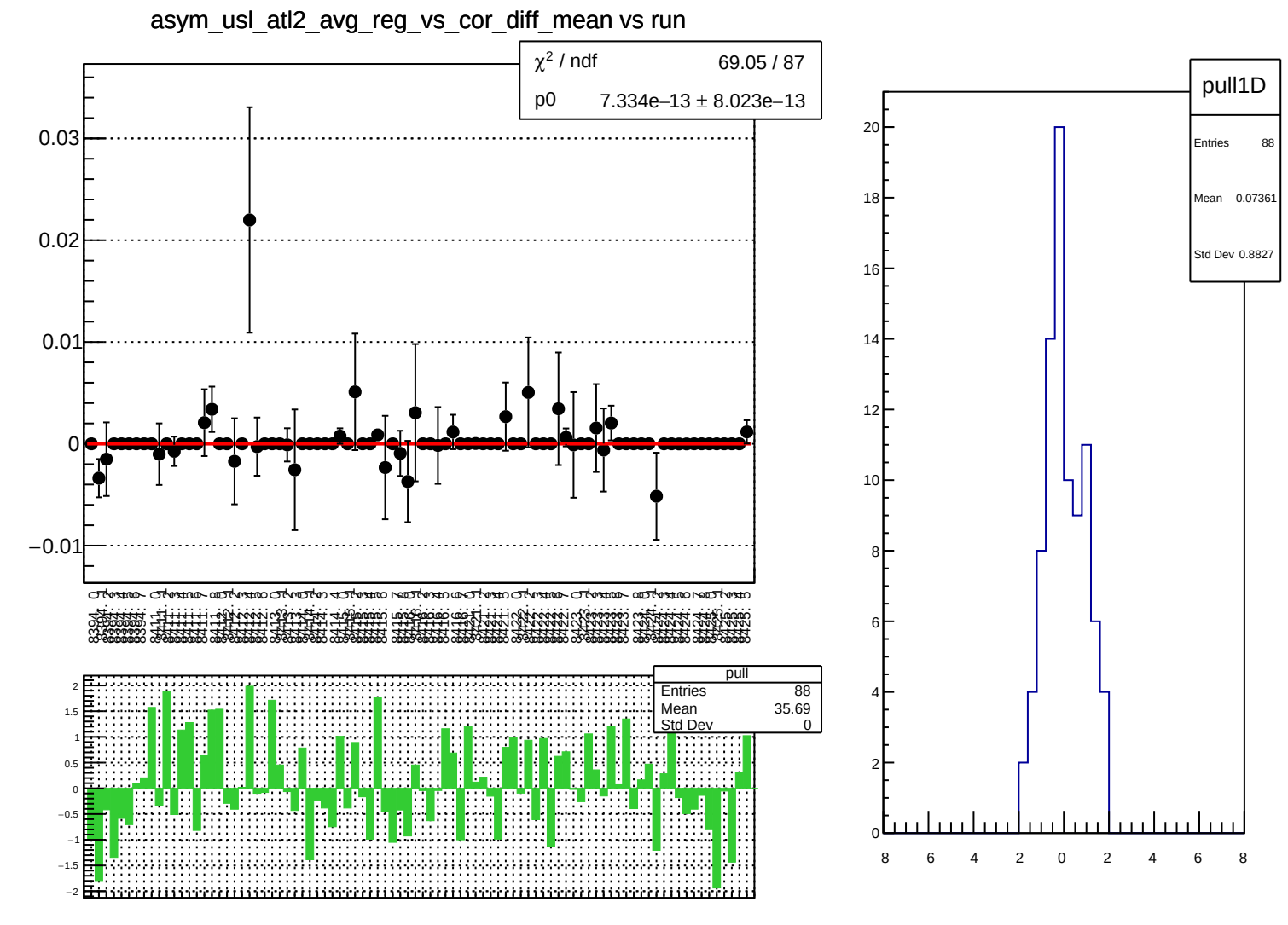

pull1D
Entries 88
Mean −0.01817
Std Dev 0.8702

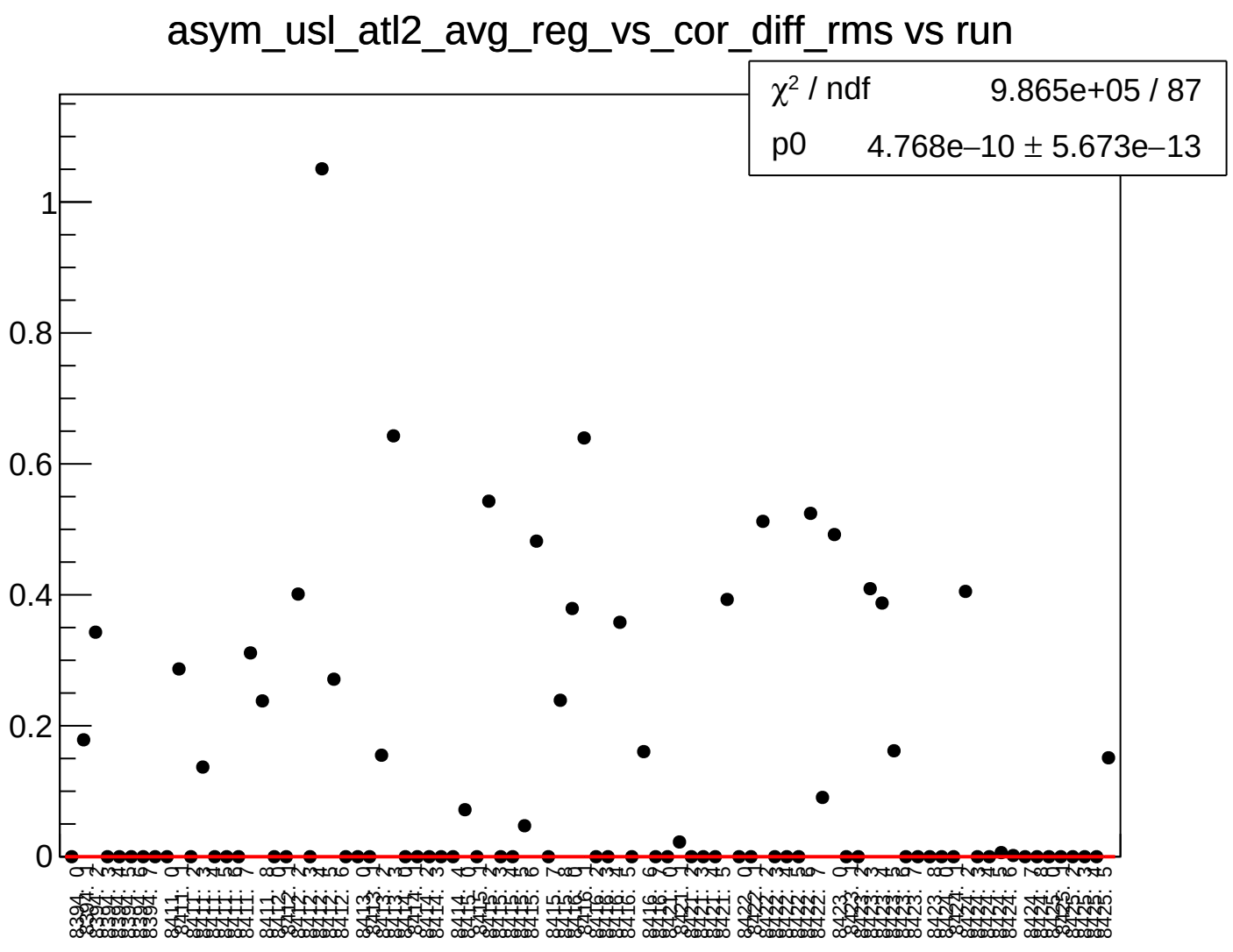

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.716e+04 / 87
p0 5239 ± 4.047
6500
6000
5500
5000
4500
4000

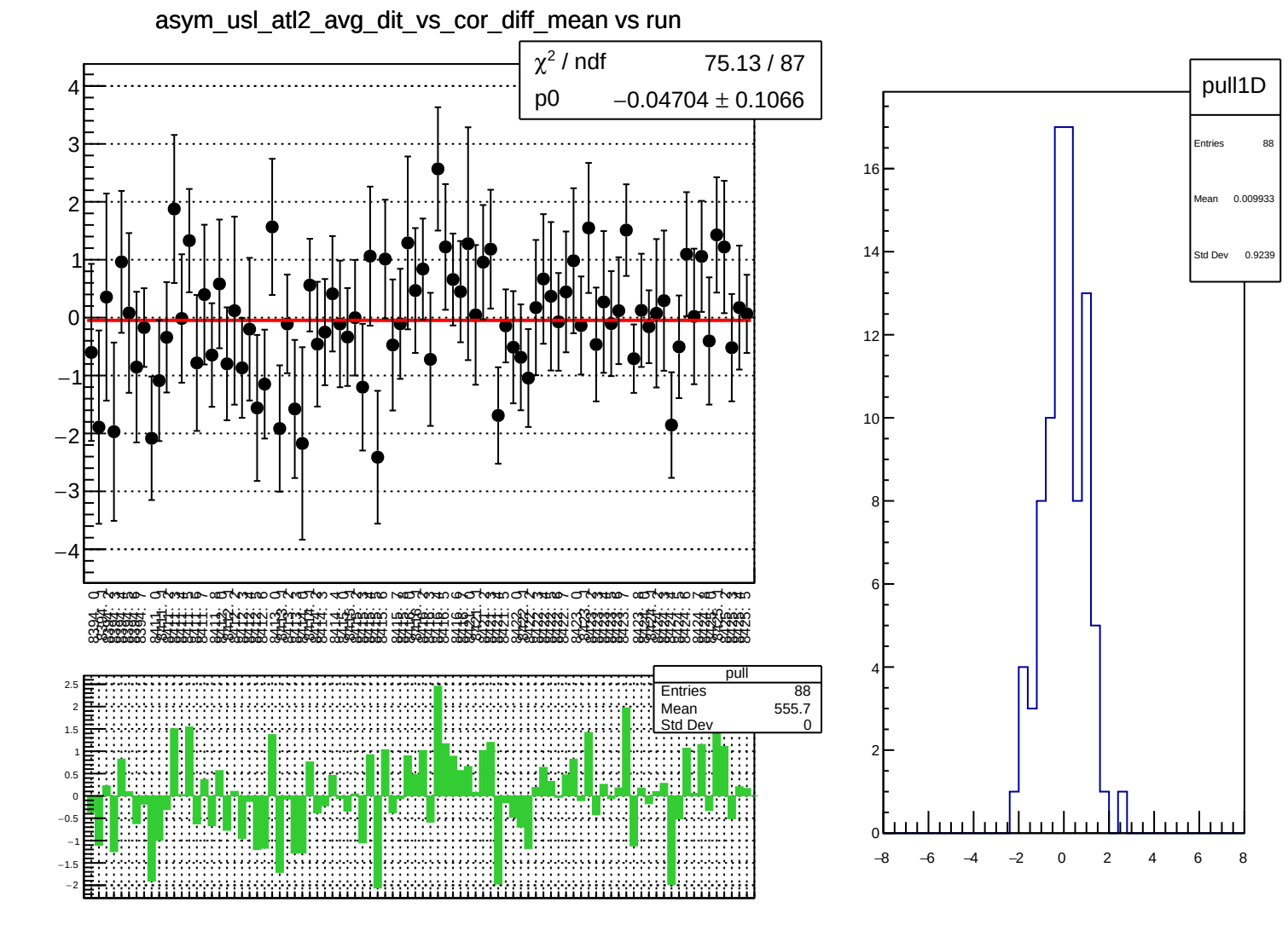

asym_usl_atl2_avg_mean vs run
×10^3
χ² / ndf 59.2 / 87
p0 49.34 ± 5928
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 21.94
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

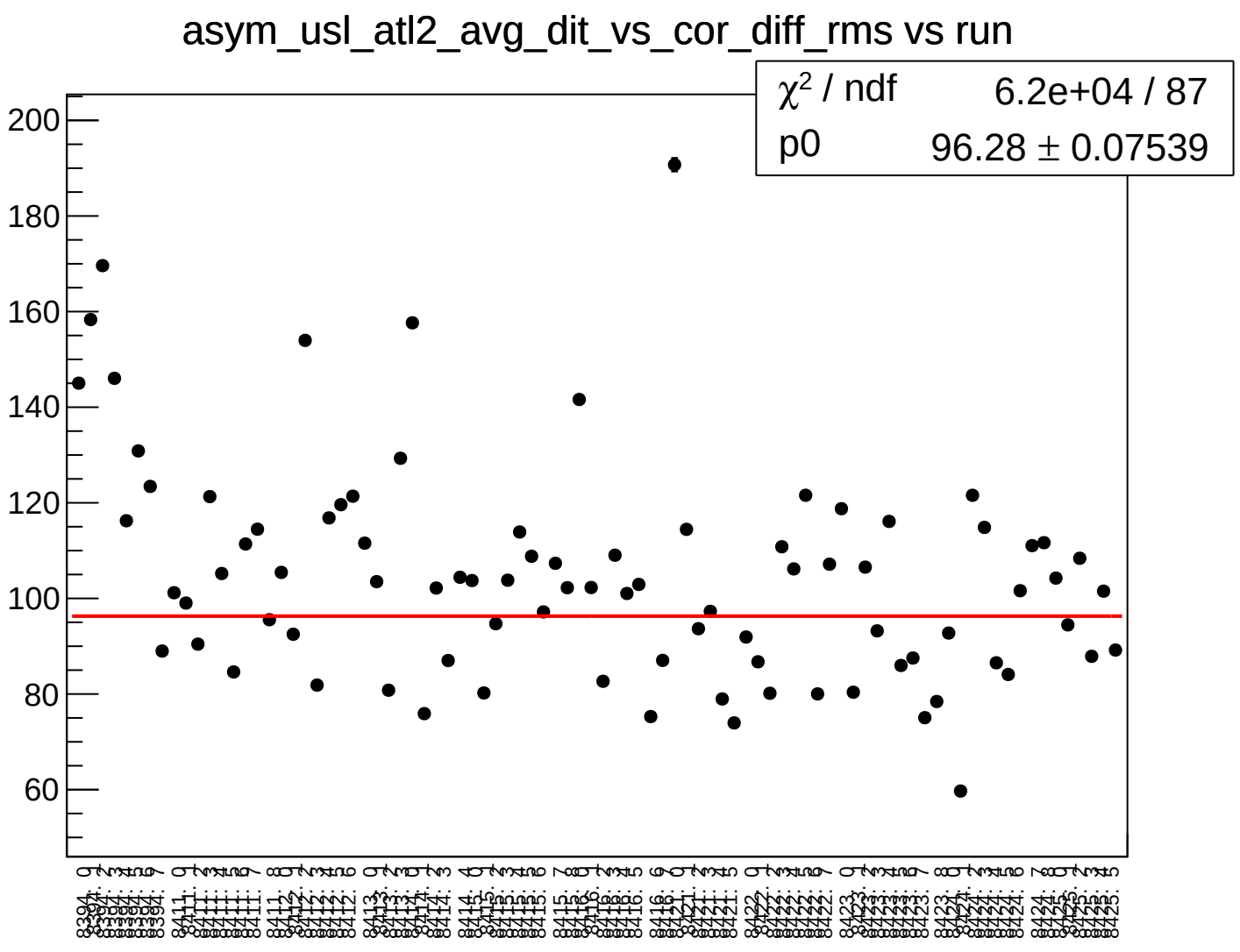

pull1D
Entries 88
Mean 0.02131
Std Dev 0.8199
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

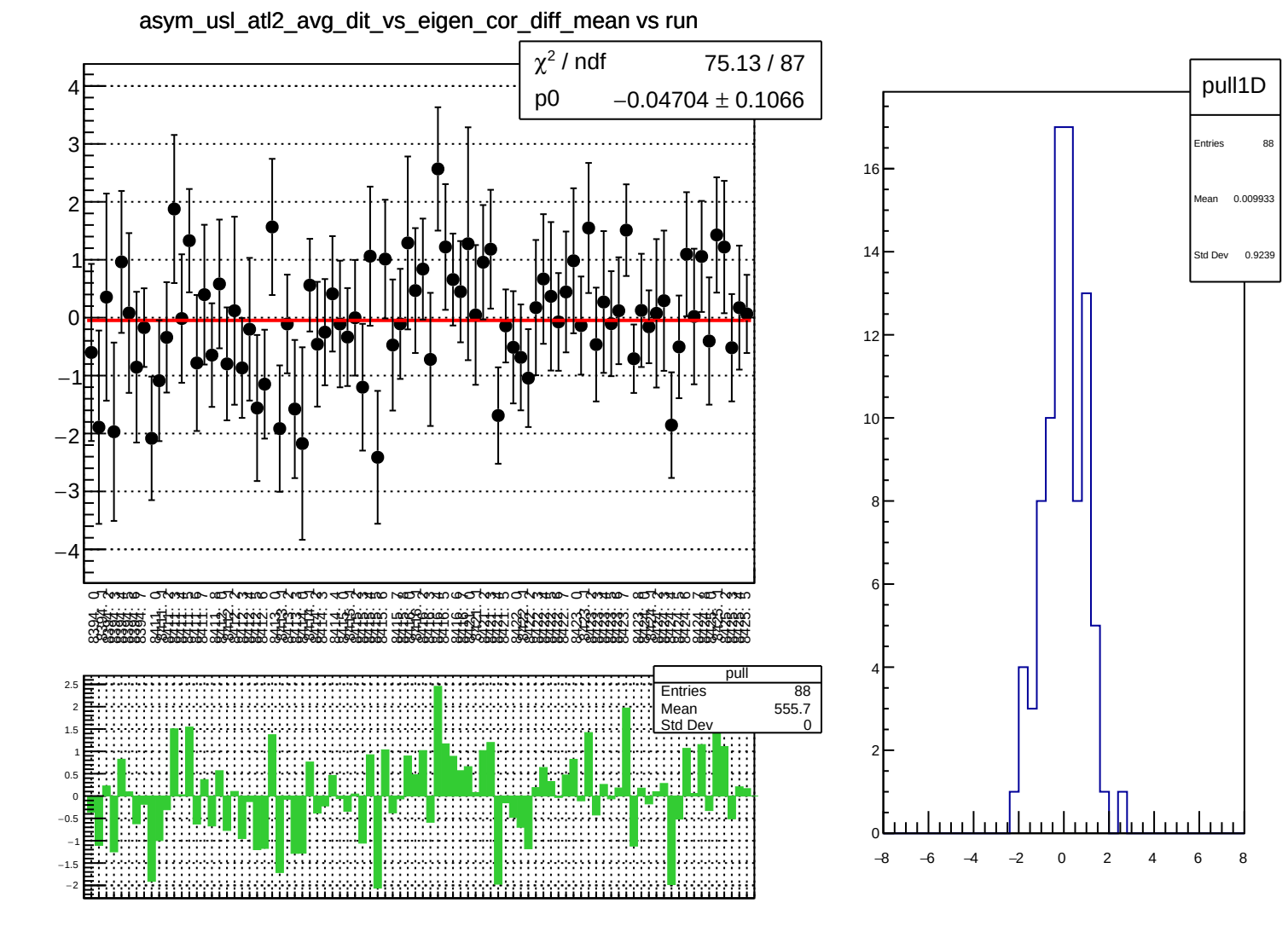

asym_usl_atl2_avg_rms vs run
χ² / ndf 1.632e+04 / 87
p0 5427 ± 4.192
6500
6000
5500
5000
4500
4000

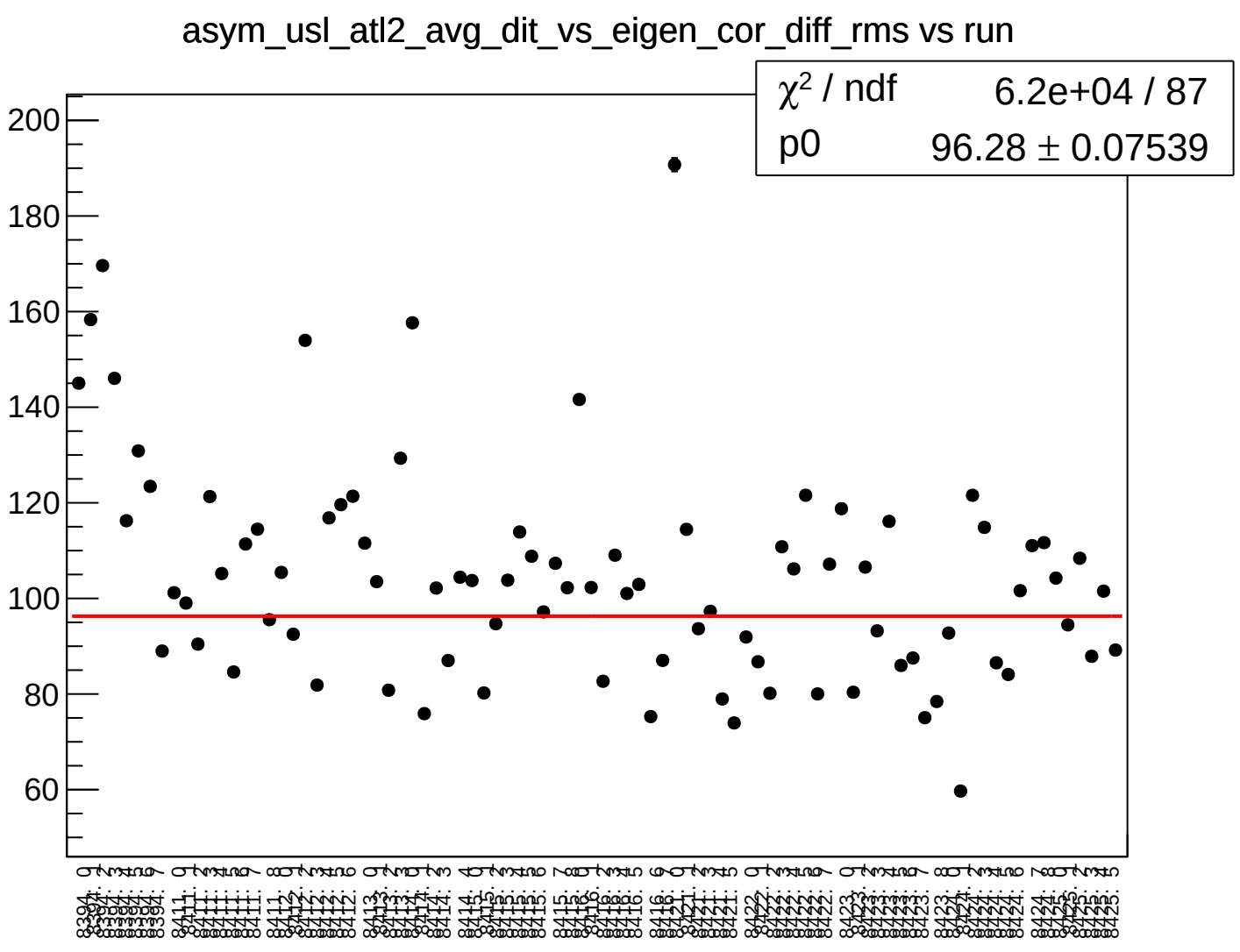

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 69.05 / 87
p0 7.334e−13 ± 8.023e−13
0.03
0.02
0.01
0
−0.01
pull
Entries 88
Mean 35.69
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean 0.07361
Std Dev 0.8827
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

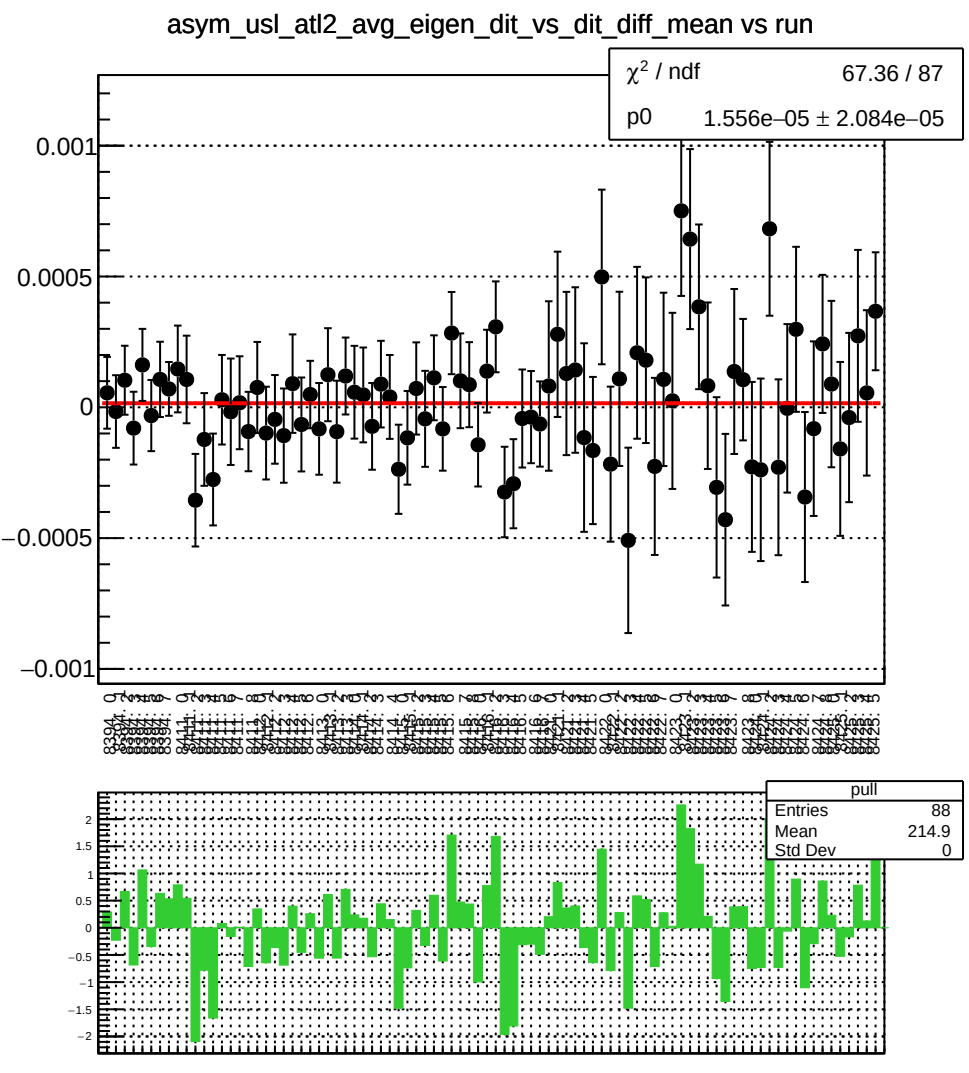

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.865e+05 / 87
p0 4.768e−10 ± 5.673e−13
1
0.8
0.6
0.4
0.2
0

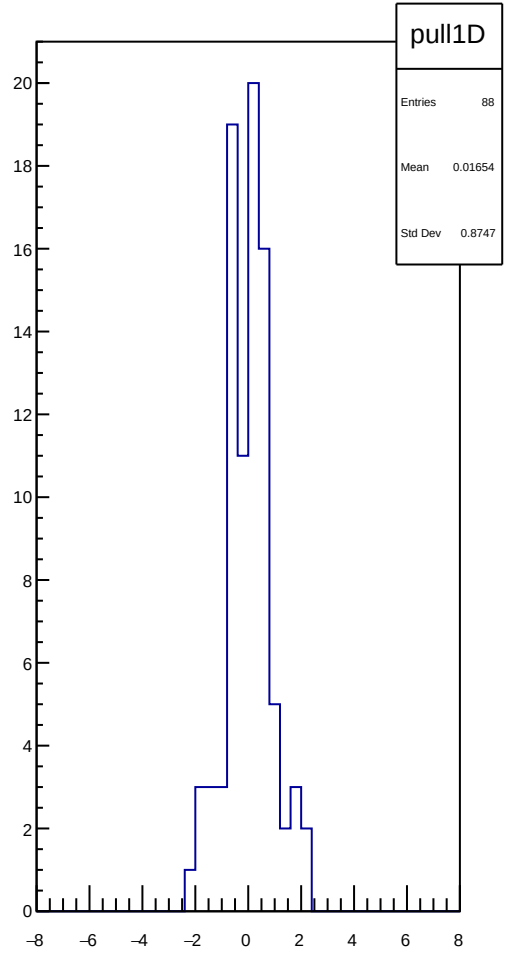

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.13 / 87
p0 −0.04704 ± 0.1066
pull
Entries 88
Mean 555.7
Std Dev 0
pull1D
Entries 88
Mean 0.009933
Std Dev 0.9239

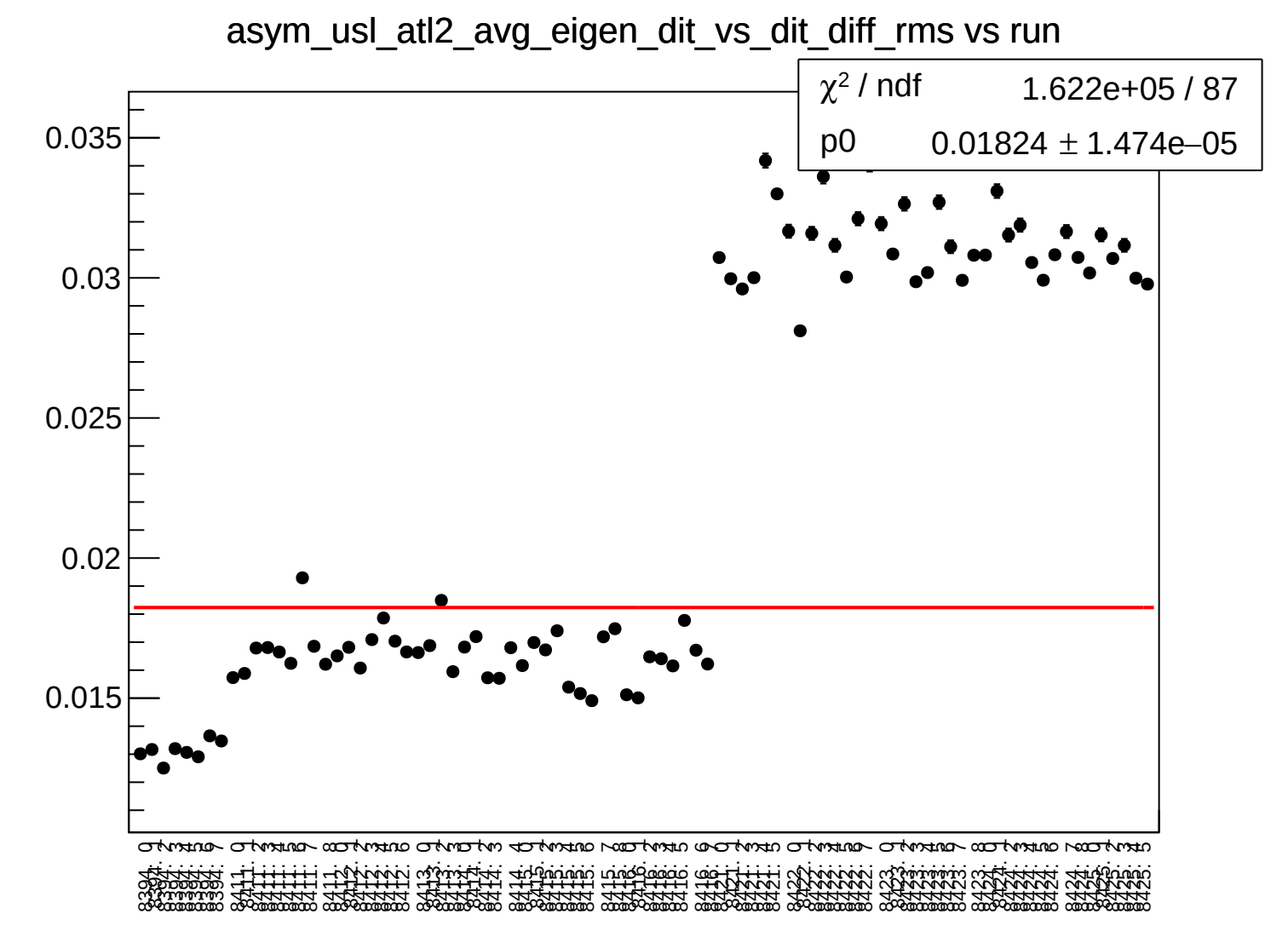

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.2e+04 / 87
p0 96.28 ± 0.07539
200
180
160
140
120
100
80
60

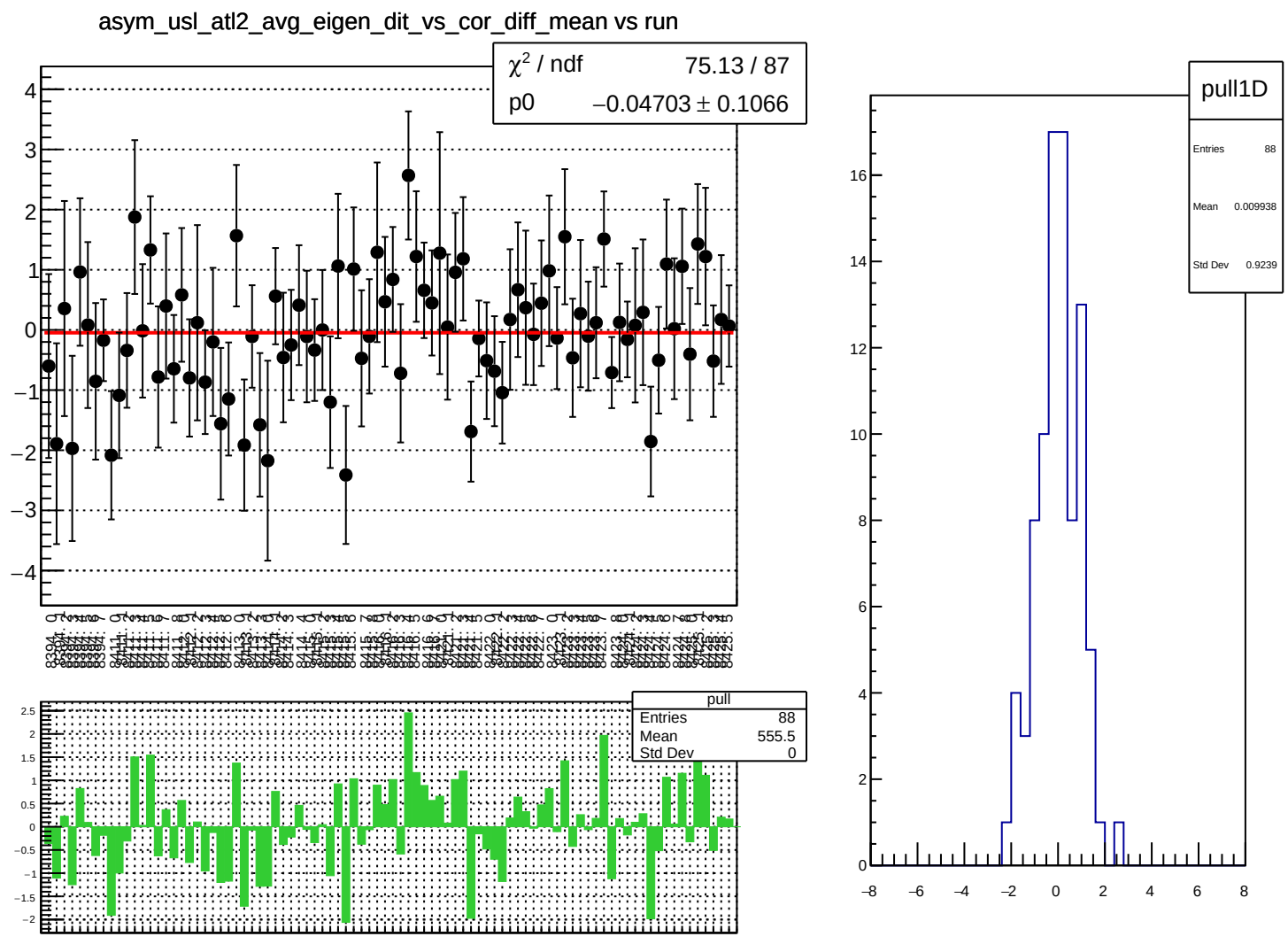

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.13 / 87
p0 −0.04704 ± 0.1066
pull
Entries 88
Mean 555.7
Std Dev 0
pull1D
Entries 88
Mean 0.009933
Std Dev 0.9239

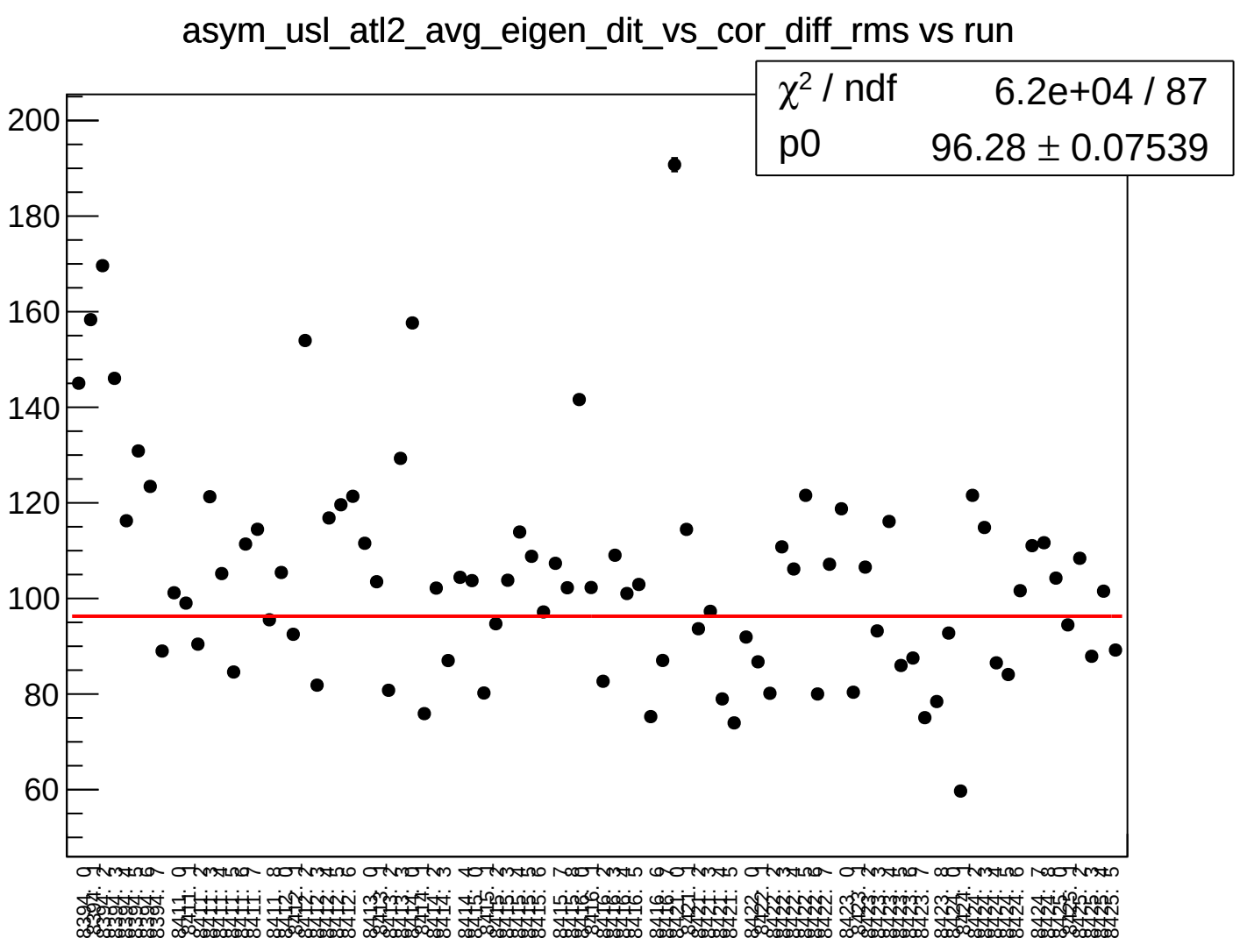

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.2e+04 / 87
p0 96.28 ± 0.07539
200
180
160
140
120
100
80
60

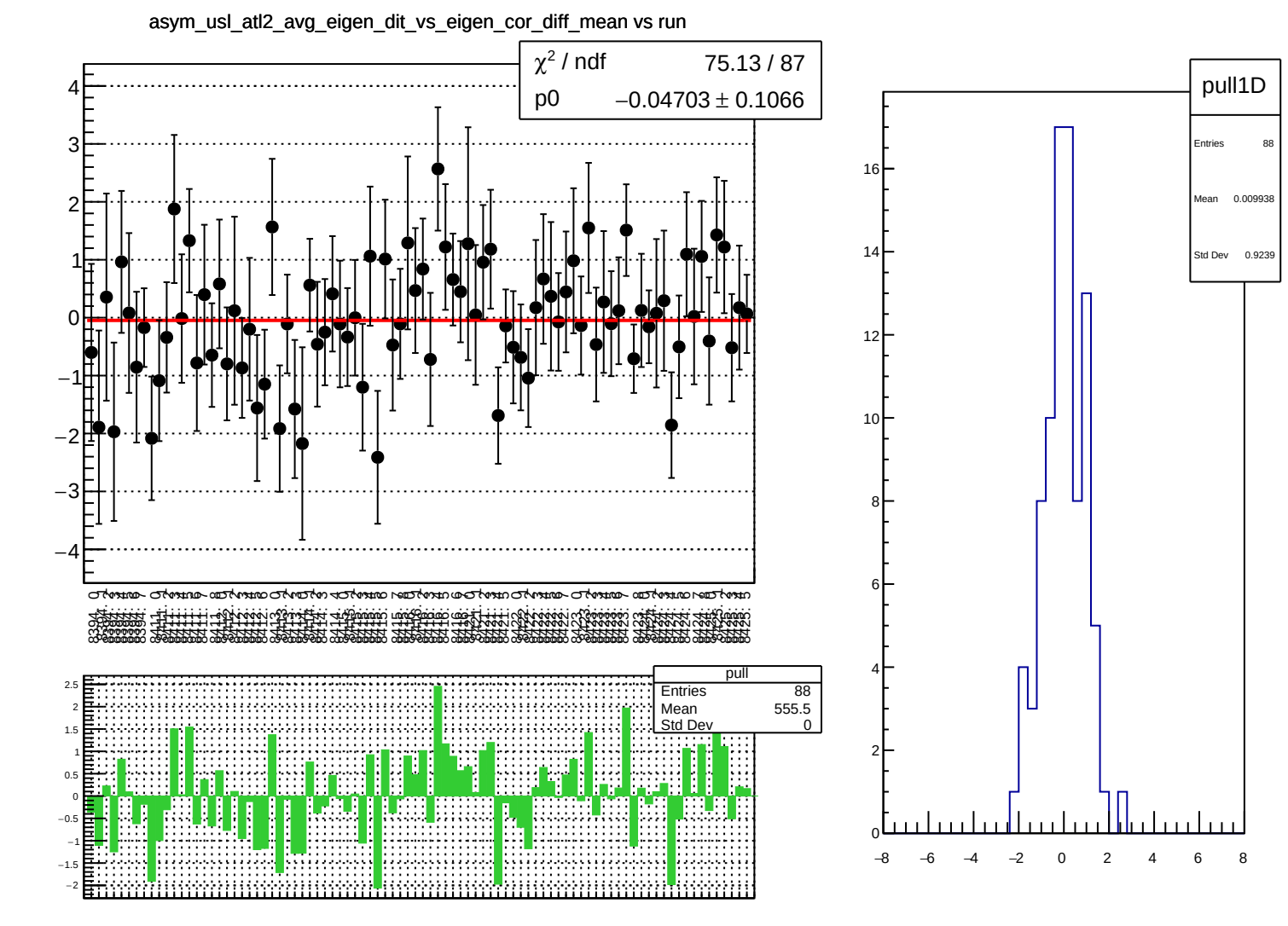

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 67.36 / 87
p0 1.556e−05 ± 2.084e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean 214.9
Std Dev 0

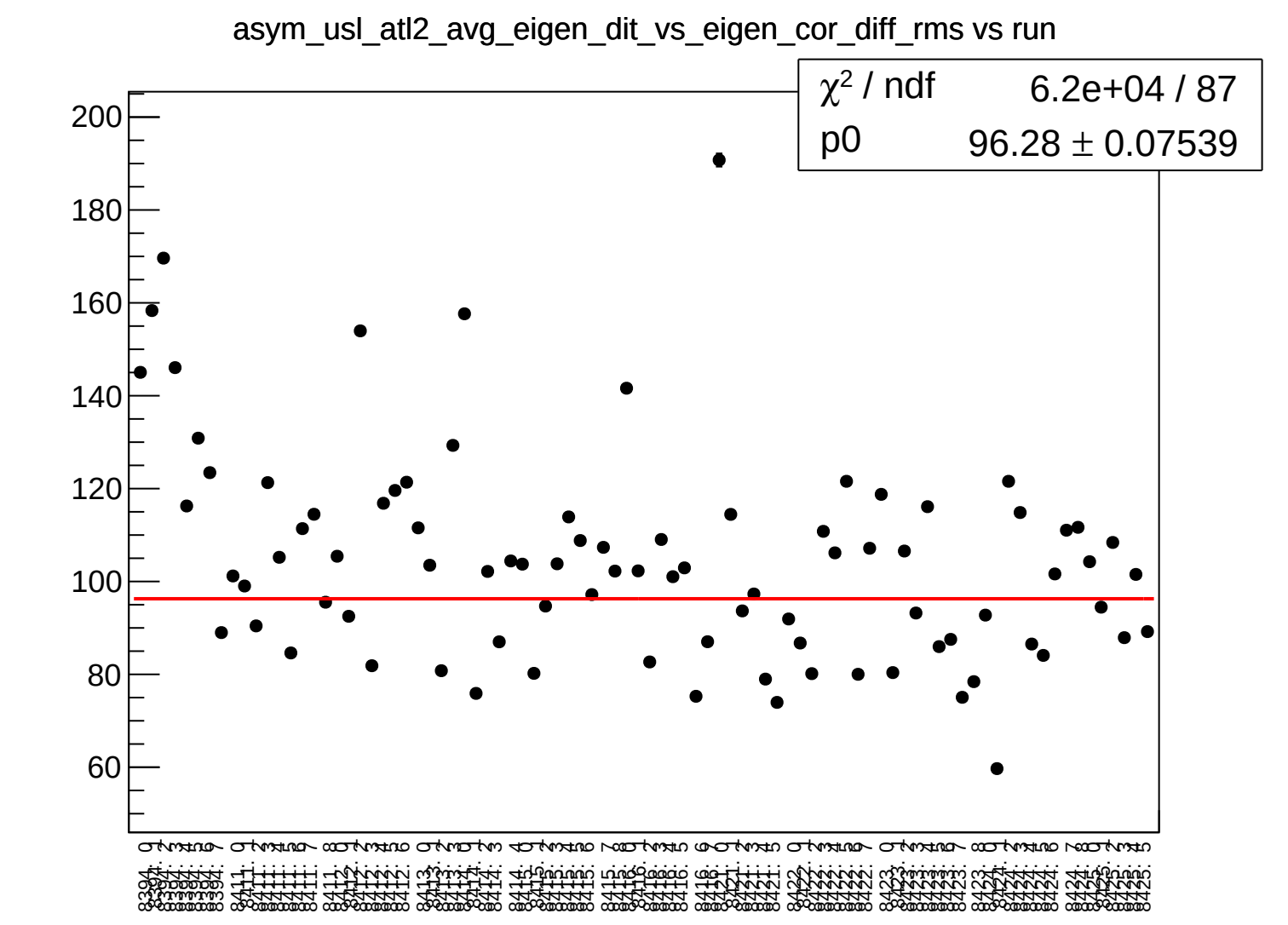

pull1D
Entries 88
Mean 0.01654
Std Dev 0.8747
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

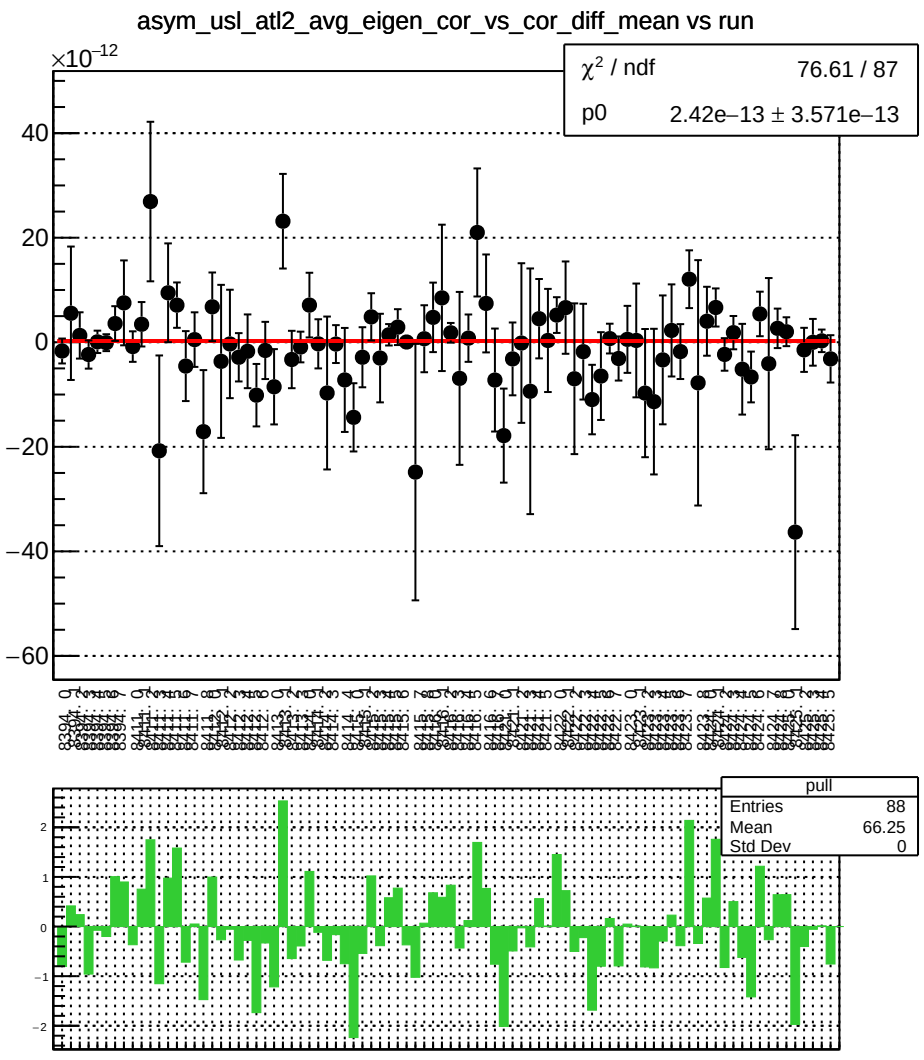

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.622e+05 / 87
p0 0.01824 ± 1.474e−05
0.035
0.03
0.025
0.02
0.015

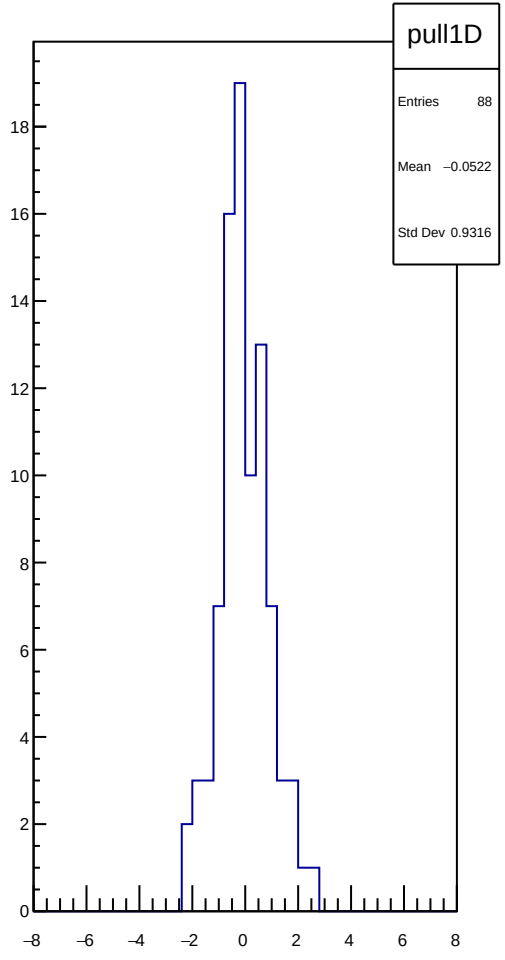

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.13 / 87
p0 −0.04703 ± 0.1066
pull
Entries 88
Mean 555.5
Std Dev 0
pull1D
Entries 88
Mean 0.009938
Std Dev 0.9239

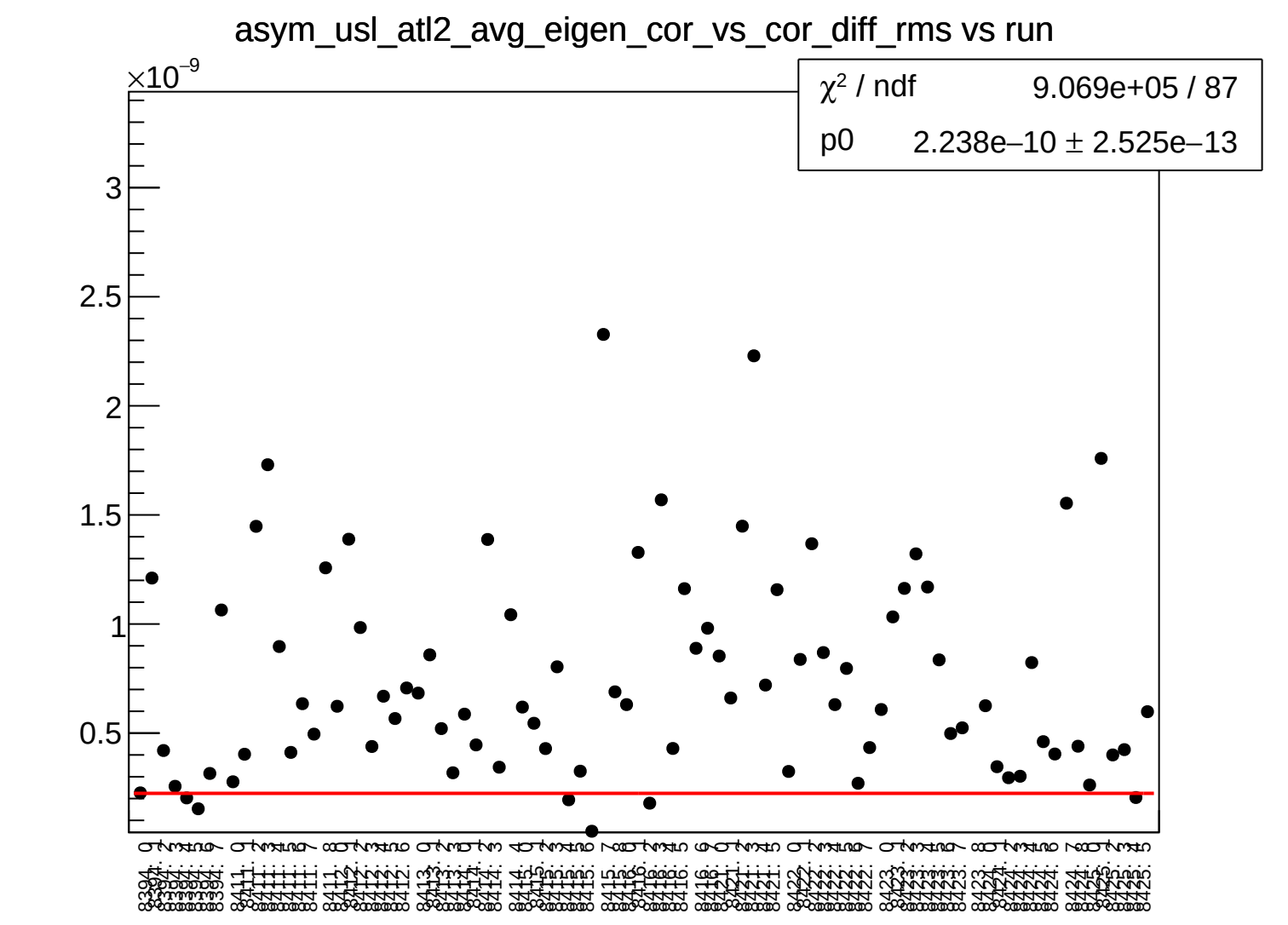

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.2e+04 / 87
p0 96.28 ± 0.07539
200
180
160
140
120
100
80
60

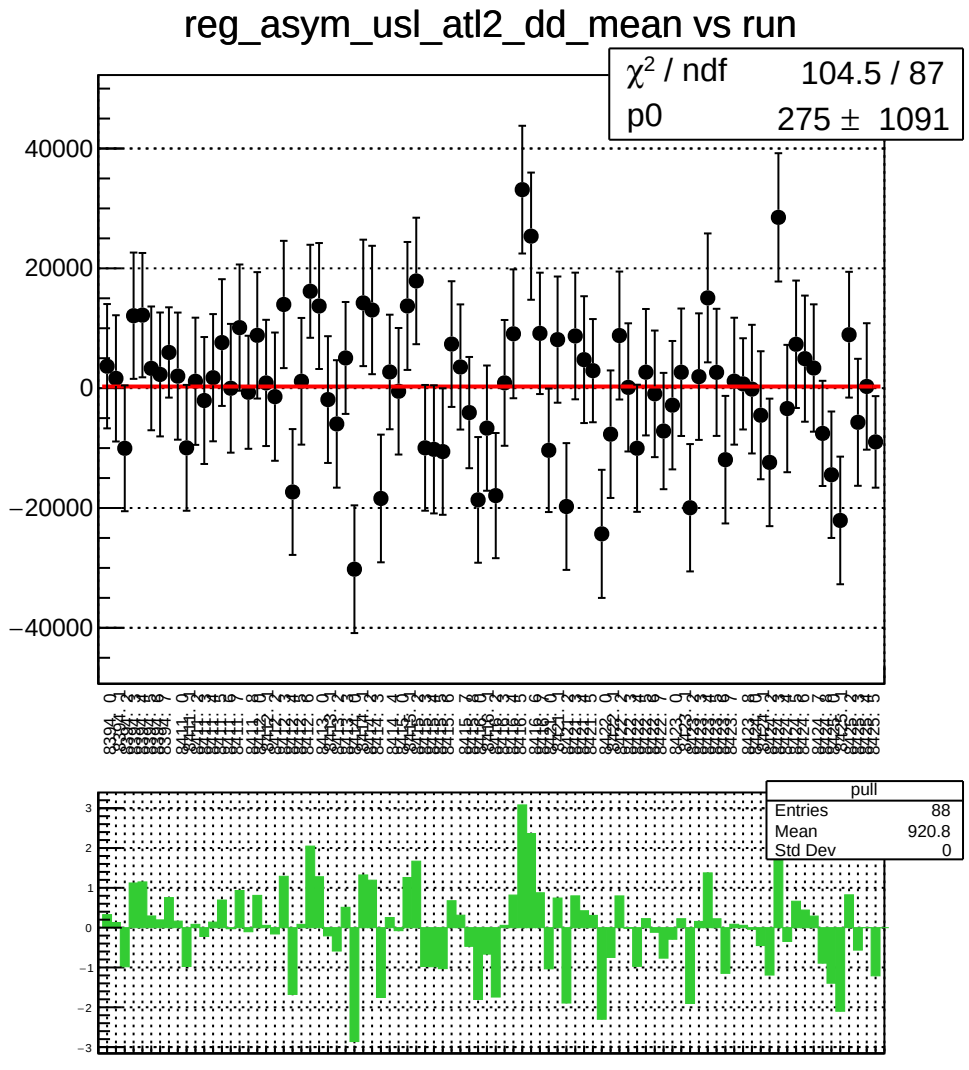

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.13 / 87
p0 −0.04703 ± 0.1066
pull
Entries 88
Mean 555.5
Std Dev 0
pull1D
Entries 88
Mean 0.009938
Std Dev 0.9239

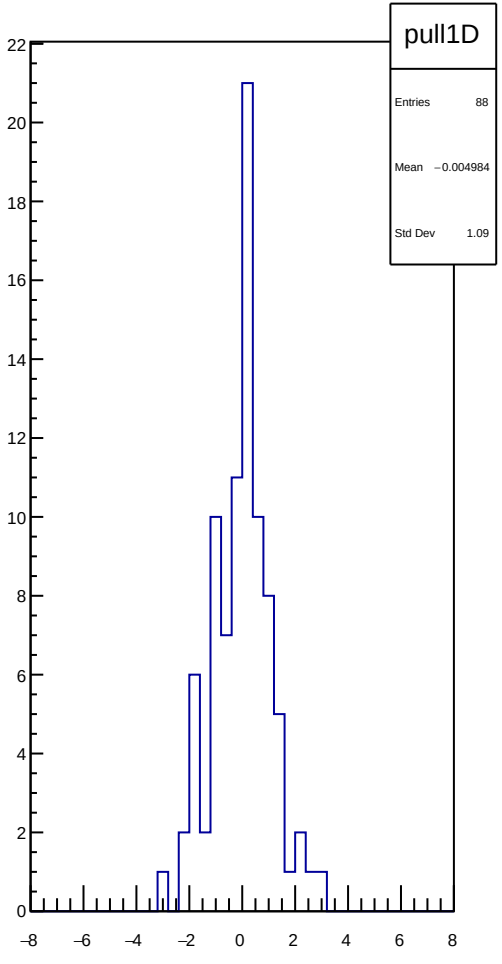

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.2e+04 / 87
p0 96.28 ± 0.07539
200
180
160
140
120
100
80
60

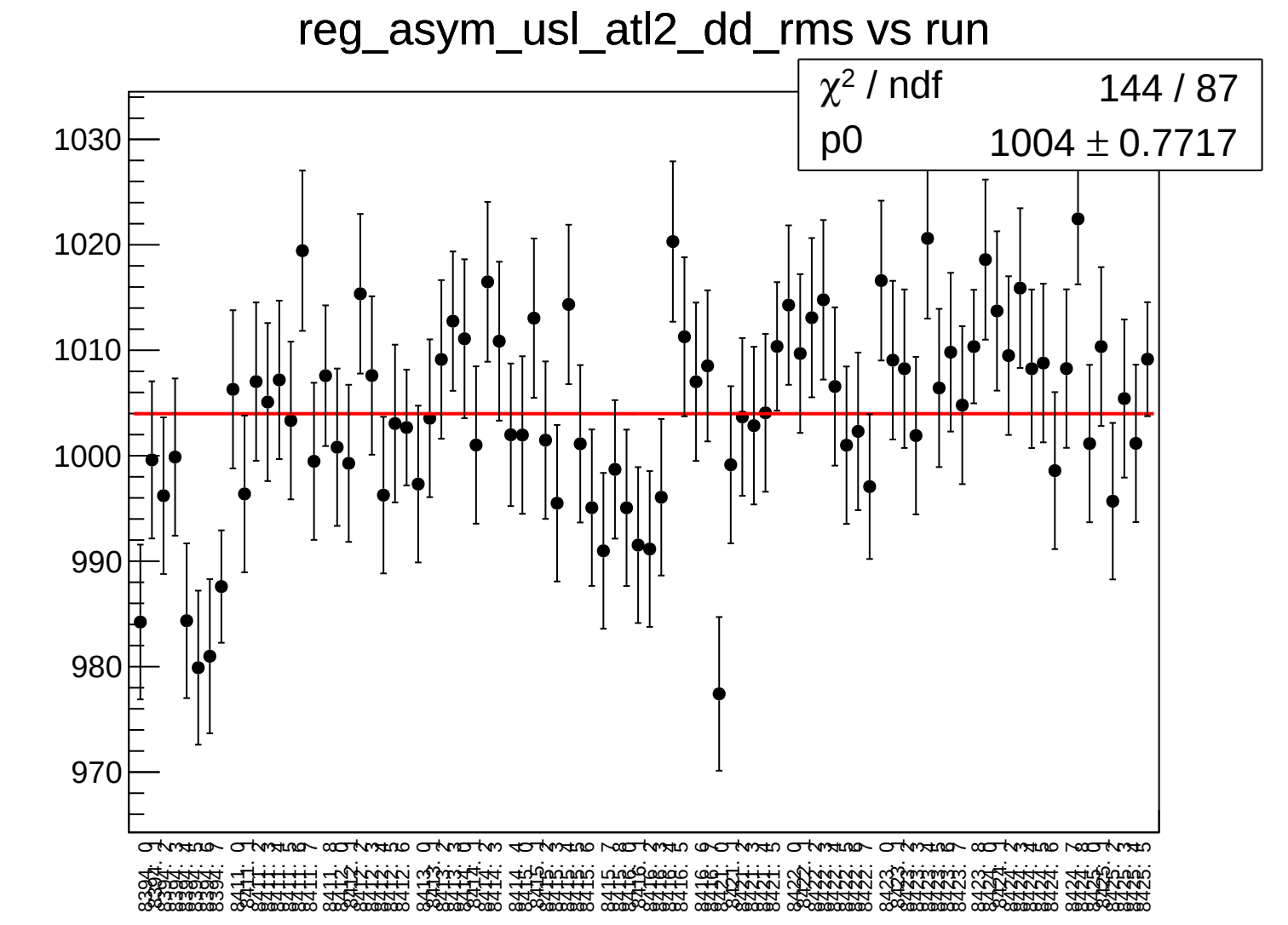

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.61 / 87
p0 2.42e−13 ± 3.571e−13
40
20
0
−20
−40
−60
pull
Entries 88
Mean 66.25
Std Dev 0
2
1
0
−1
−2

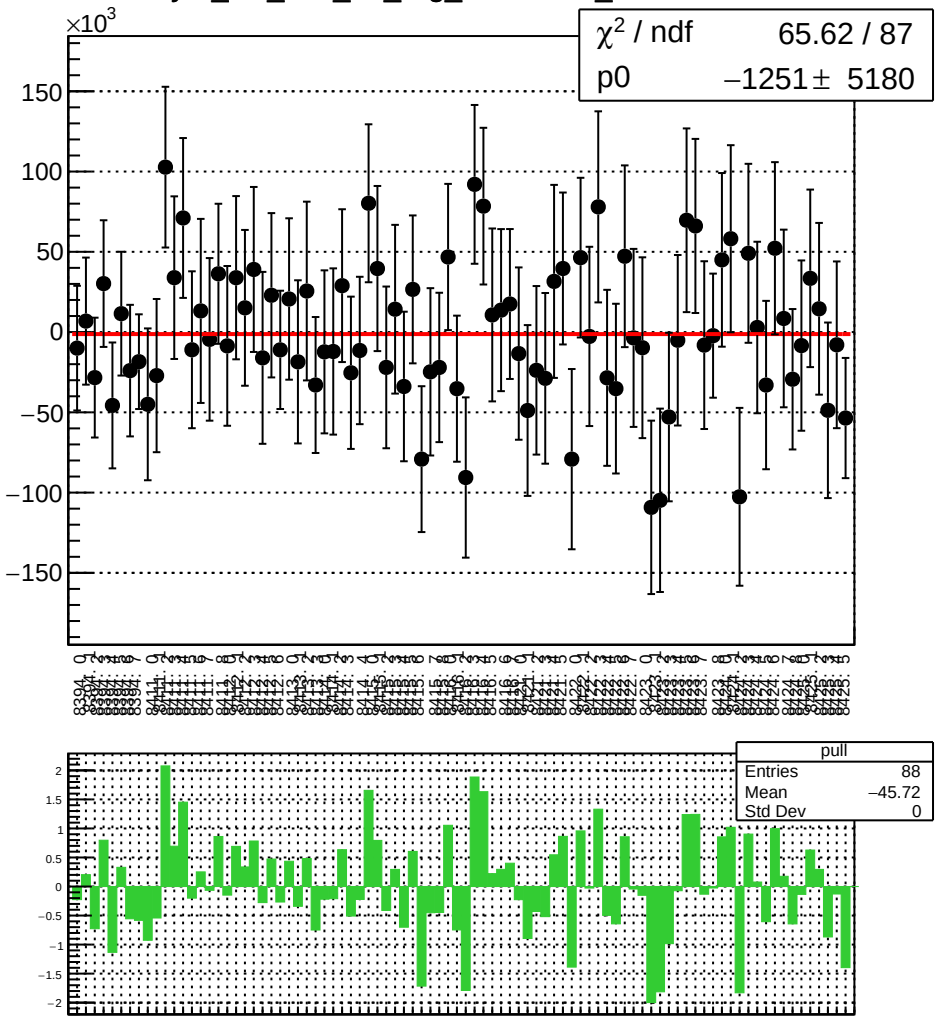

pull1D
Entries 88
Mean −0.0522
Std Dev 0.9316
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

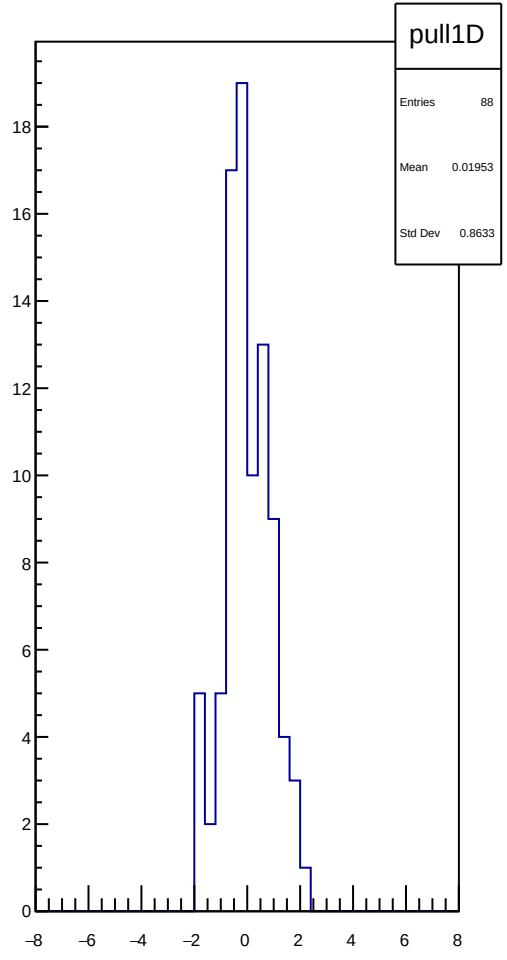

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.069e+05 / 87
p0 2.238e−10 ± 2.525e−13
3
2.5
2
1.5
1
0.5

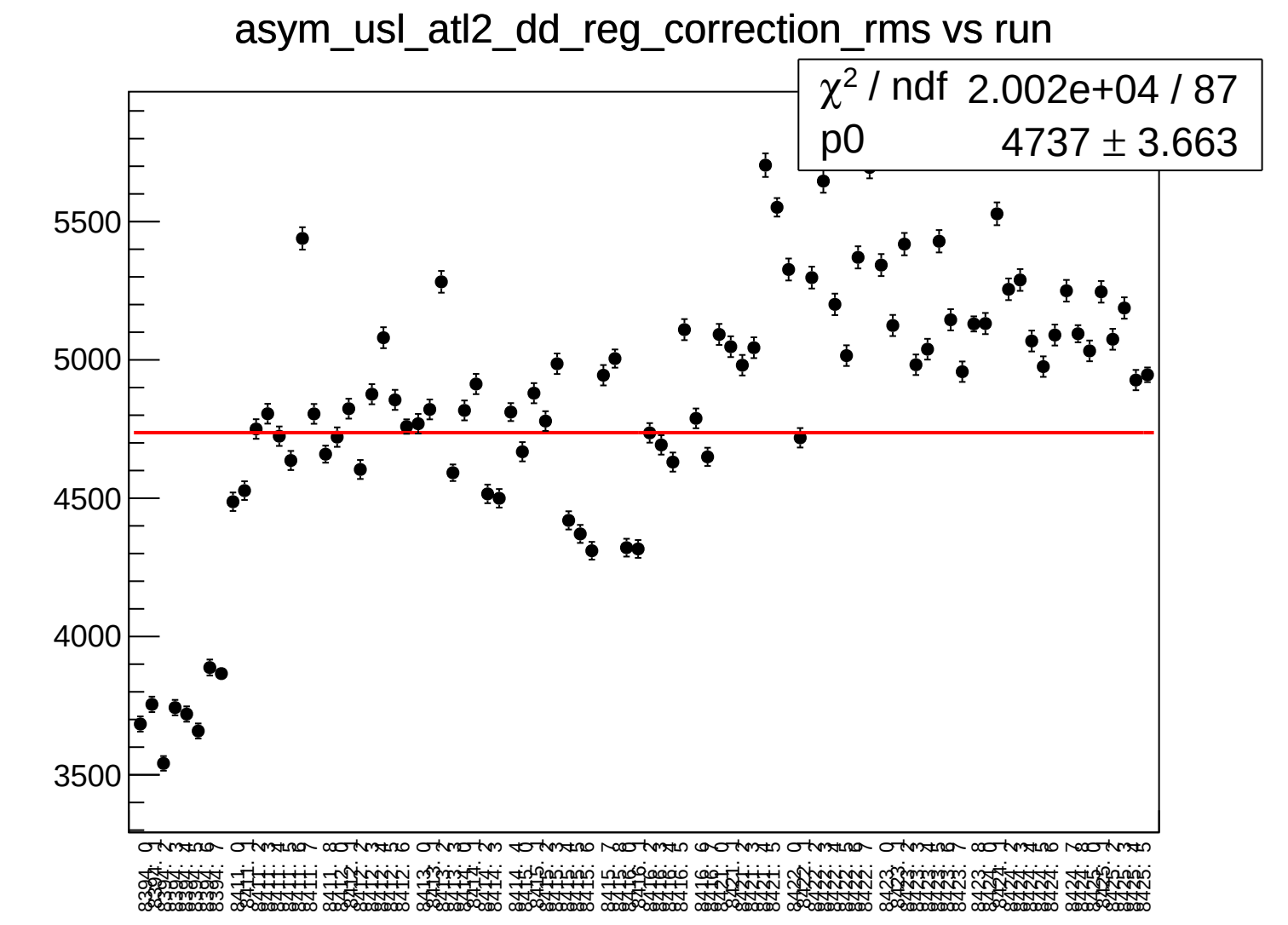

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 104.5 / 87
p0 275 ± 1091
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 920.8
Std Dev 0
3
2
1
0
−1
−2
−3

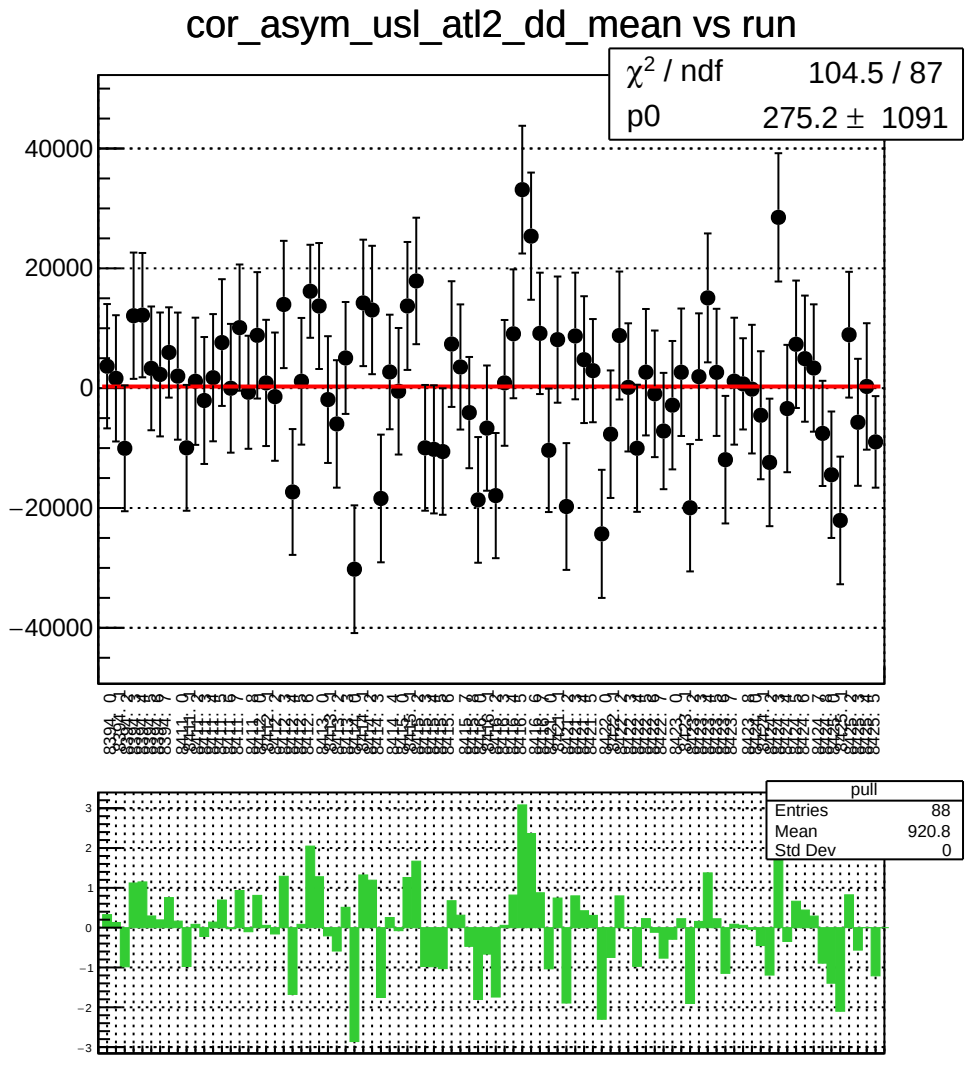

pull1D
Entries 88
Mean −0.004984
Std Dev 1.09
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

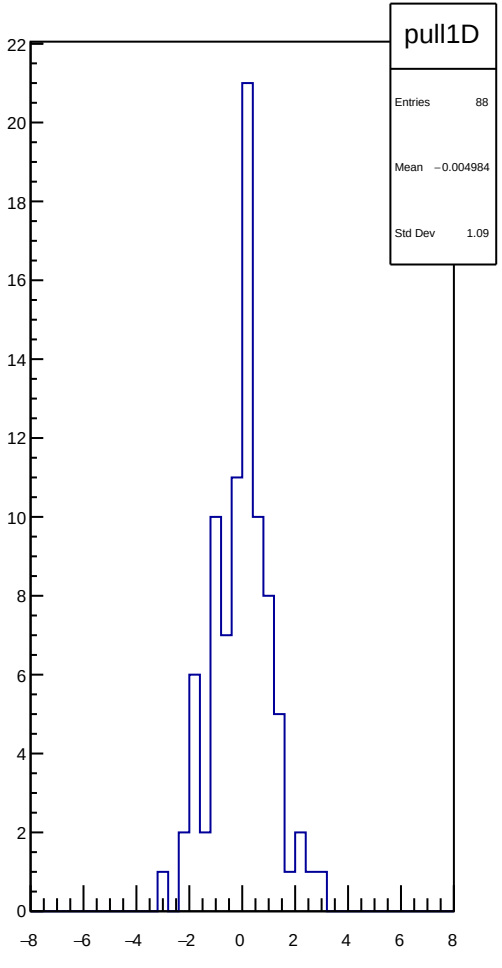

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 144 / 87
p0 1004 ± 0.7717
1030
1020
1010
1000
990
980
970

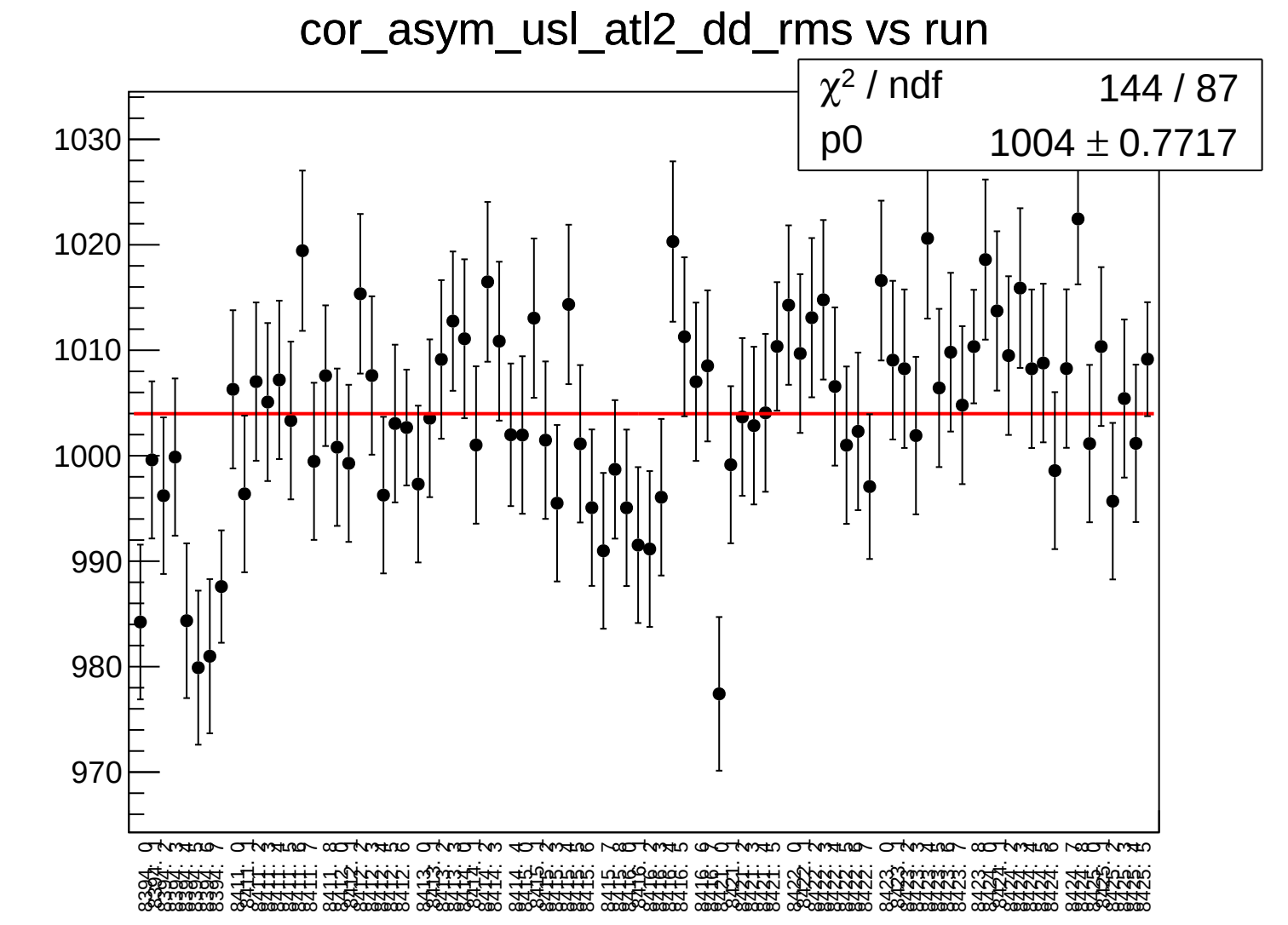

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 65.62 / 87
p0 −1251 ± 5180
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −45.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

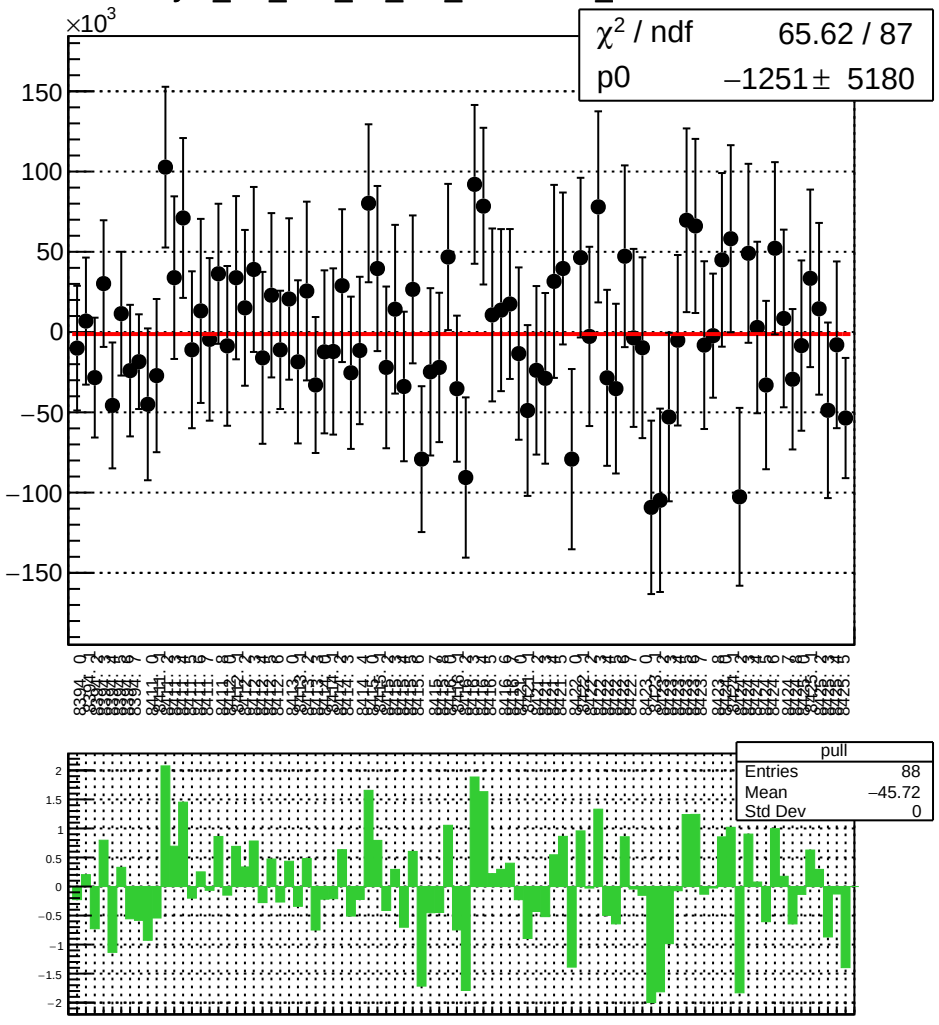

pull1D
Entries 88
Mean 0.01953
Std Dev 0.8633
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

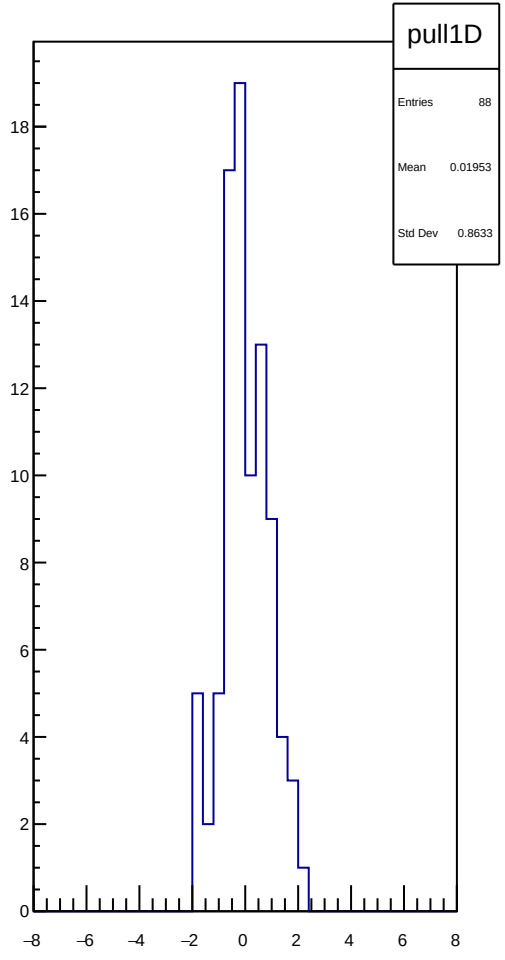

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 2.002e+04 / 87
p0 4737 ± 3.663
5500
5000
4500
4000
3500

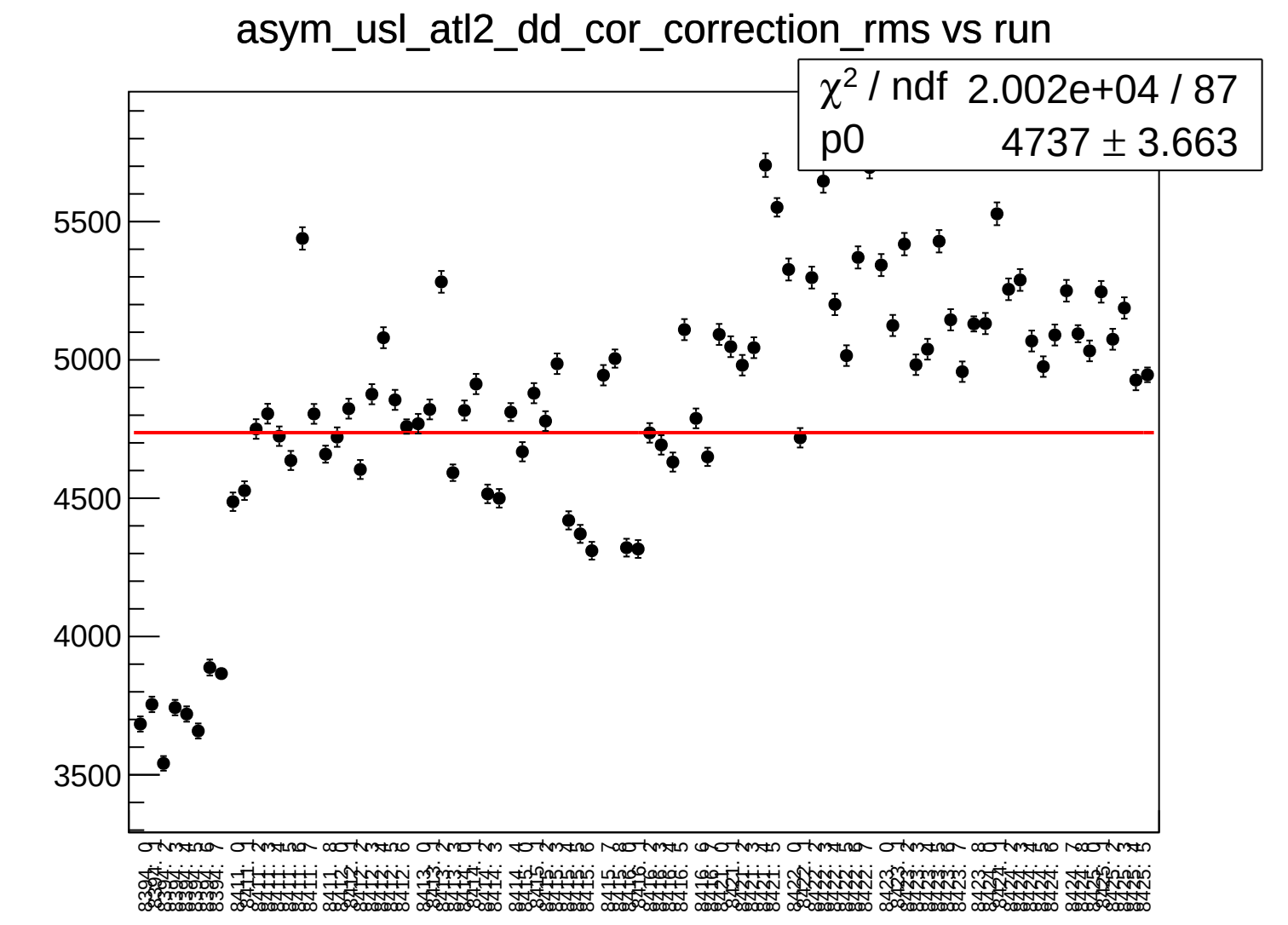

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 104.5 / 87
p0 275.2 ± 1091
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 920.8
Std Dev 0
3
2
1
0
−1
−2
−3

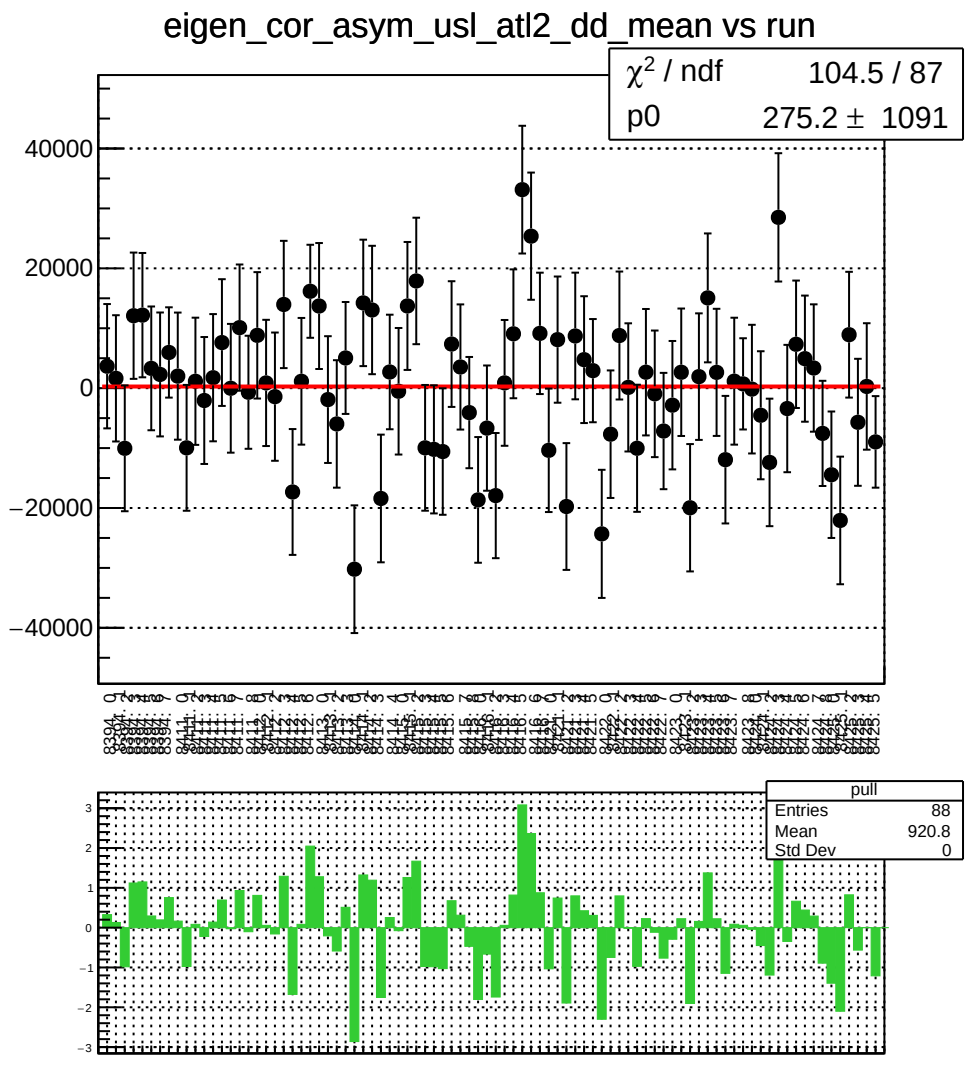

pull1D
Entries 88
Mean −0.004984
Std Dev 1.09
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

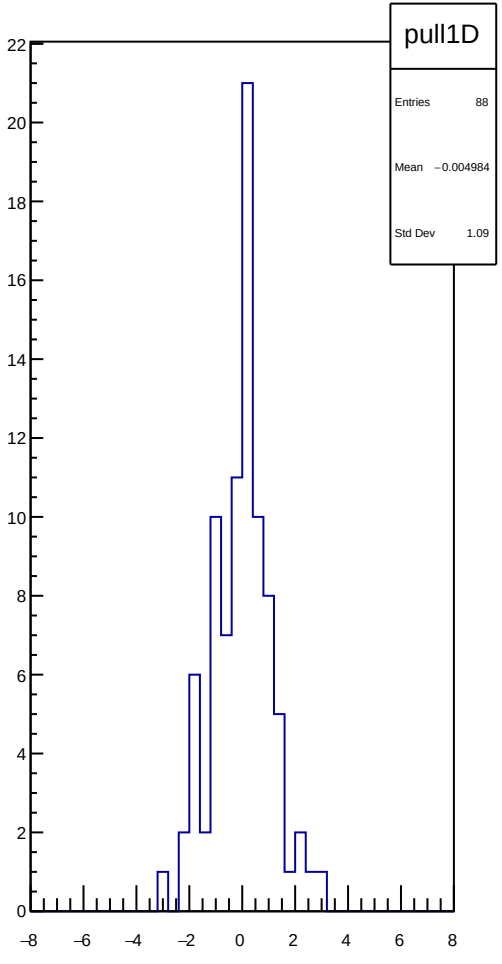

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 144 / 87
p0 1004 ± 0.7717
1030
1020
1010
1000
990
980
970

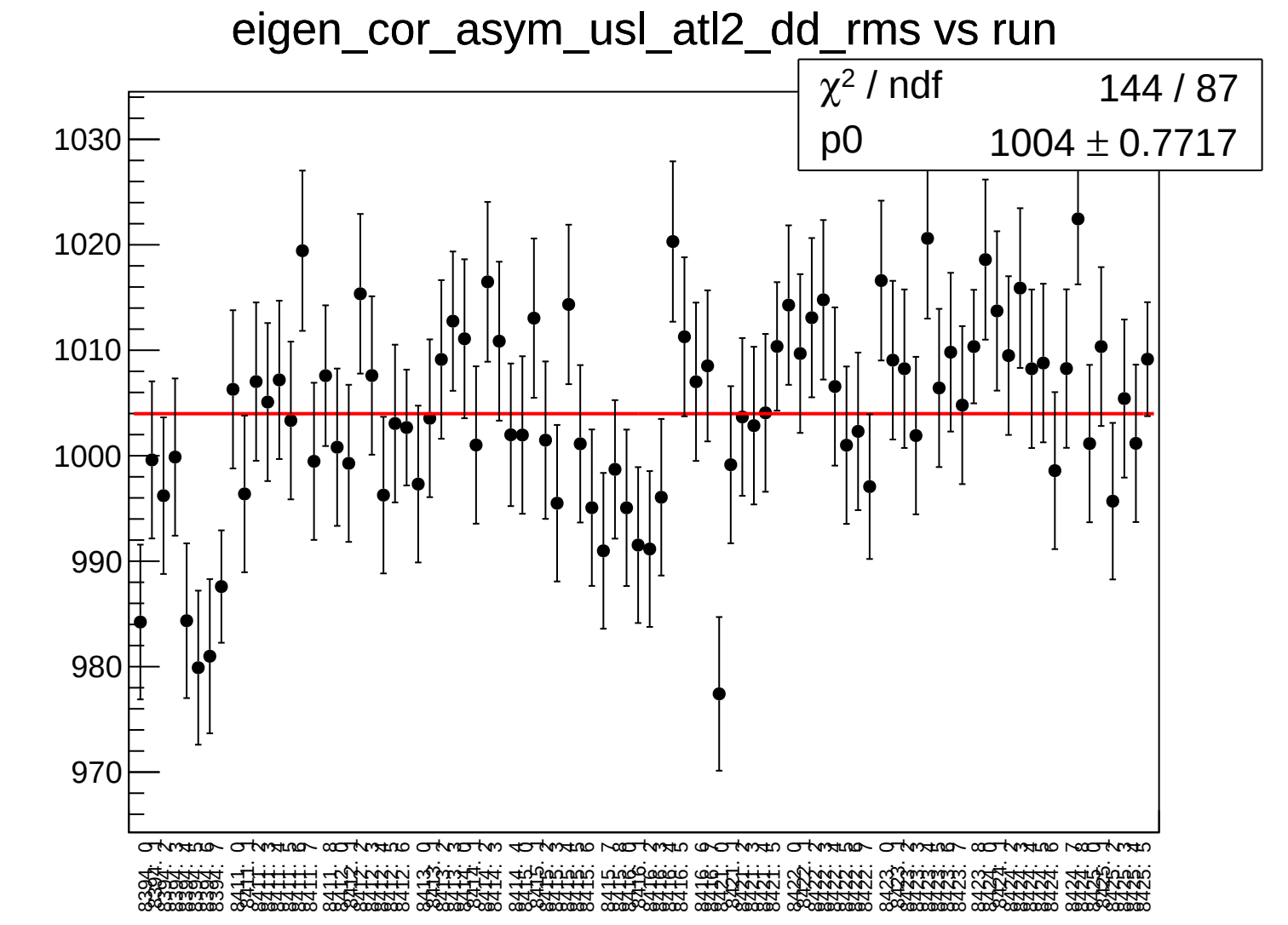

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 65.62 / 87
p0 −1251 ± 5180
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −45.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

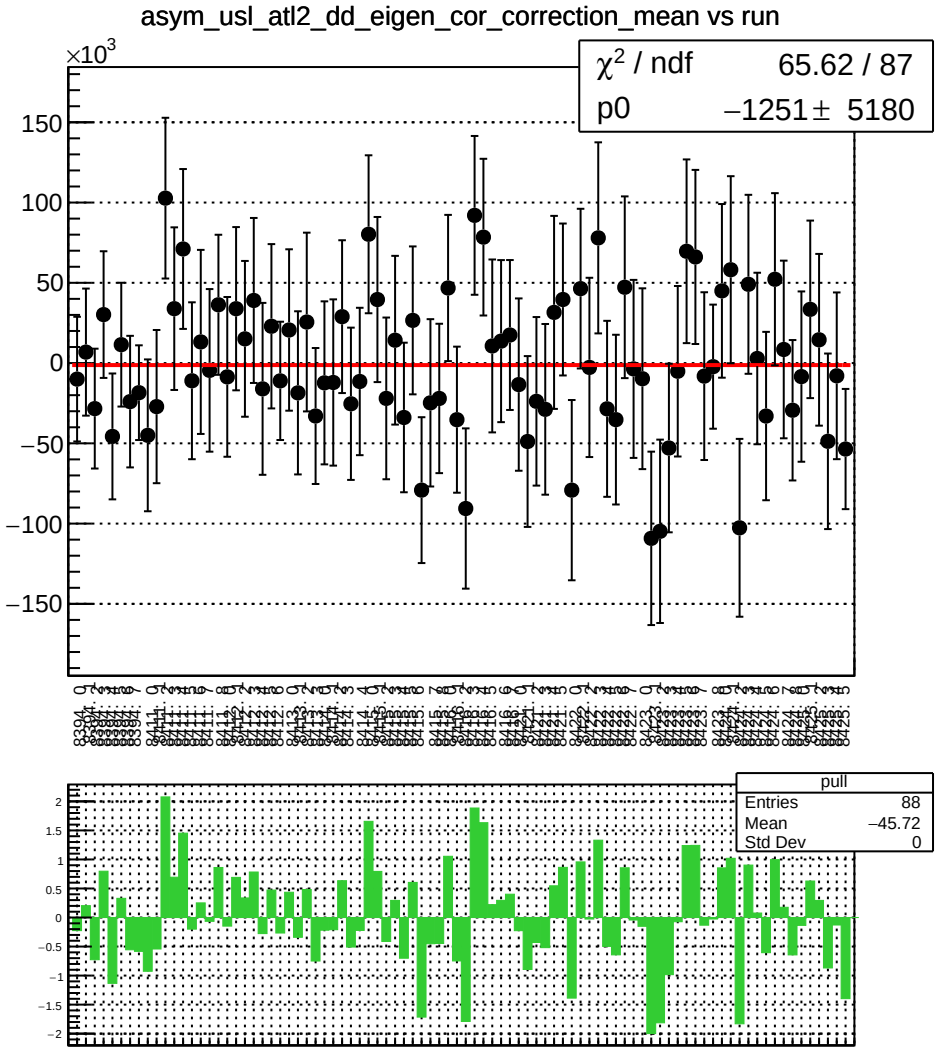

pull1D
Entries 88
Mean 0.01953
Std Dev 0.8633
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

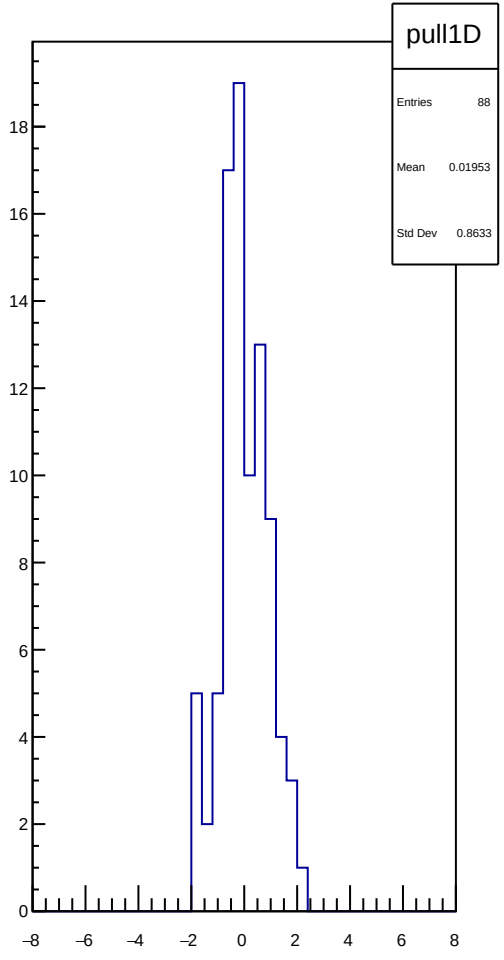

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 2.002e+04 / 87
p0 4737 ± 3.663
5500
5000
4500
4000
3500

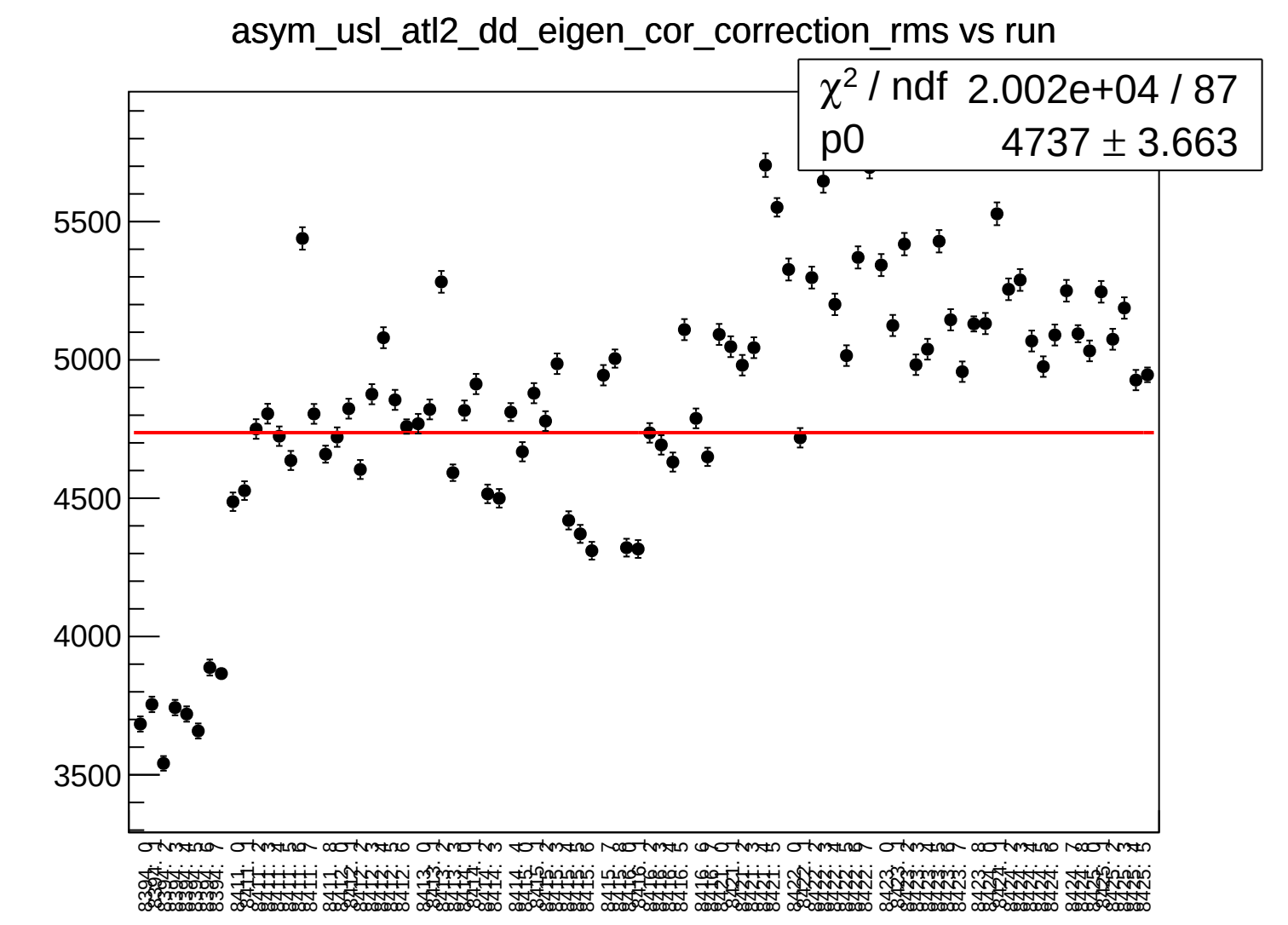

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 104.5 / 87
p0 275.2 ± 1091
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 920.8
Std Dev 0
3
2
1
0
−1
−2
−3

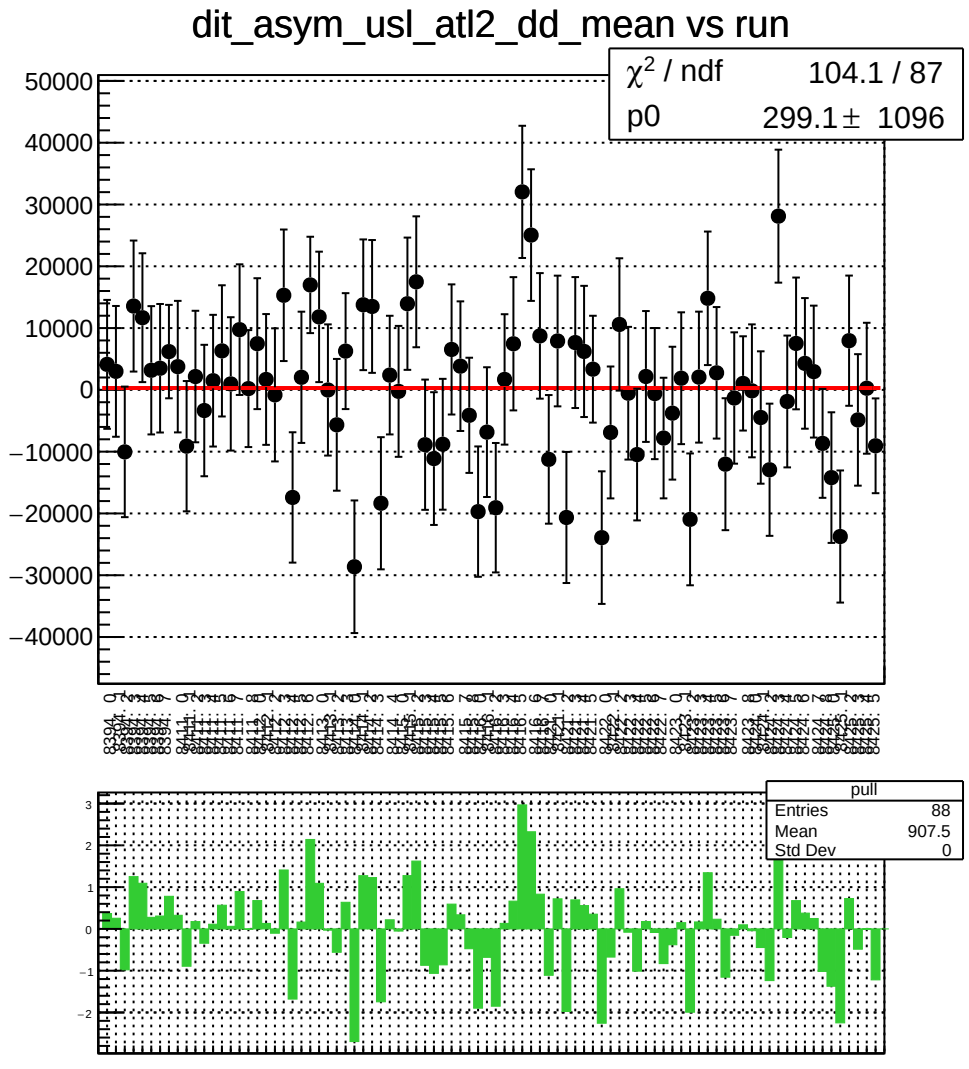

pull1D
Entries 88
Mean −0.004984
Std Dev 1.09
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

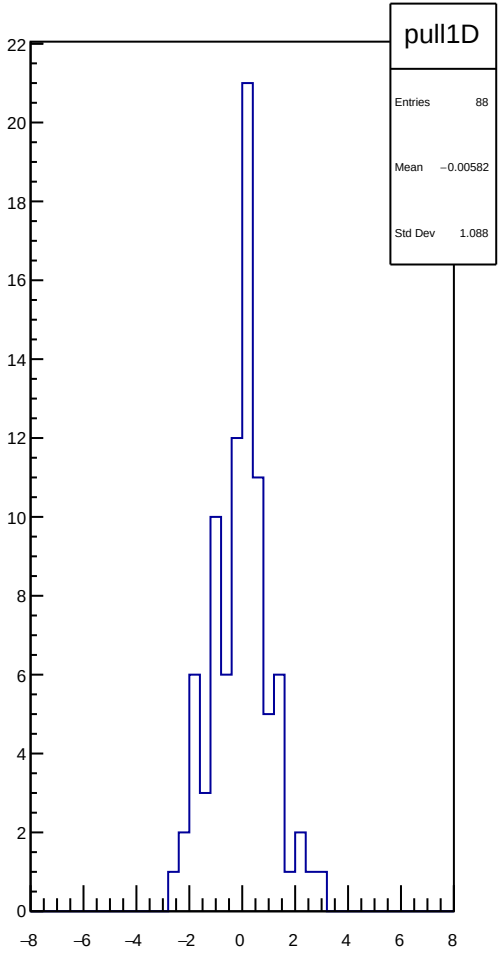

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 144 / 87
p0 1004 ± 0.7717
1030
1020
1010
1000
990
980
970

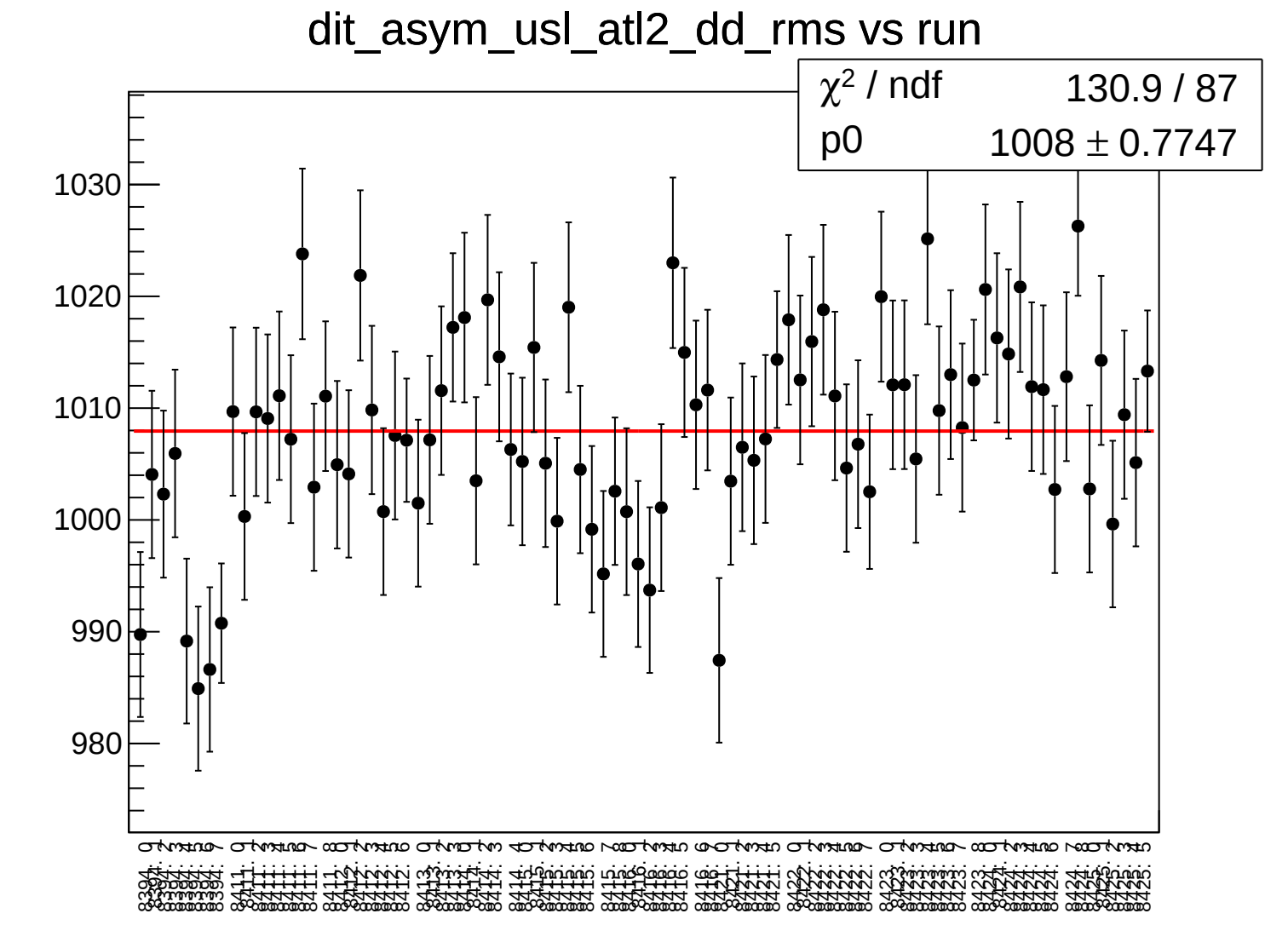

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 65.62 / 87
p0 −1251 ± 5180
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −45.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

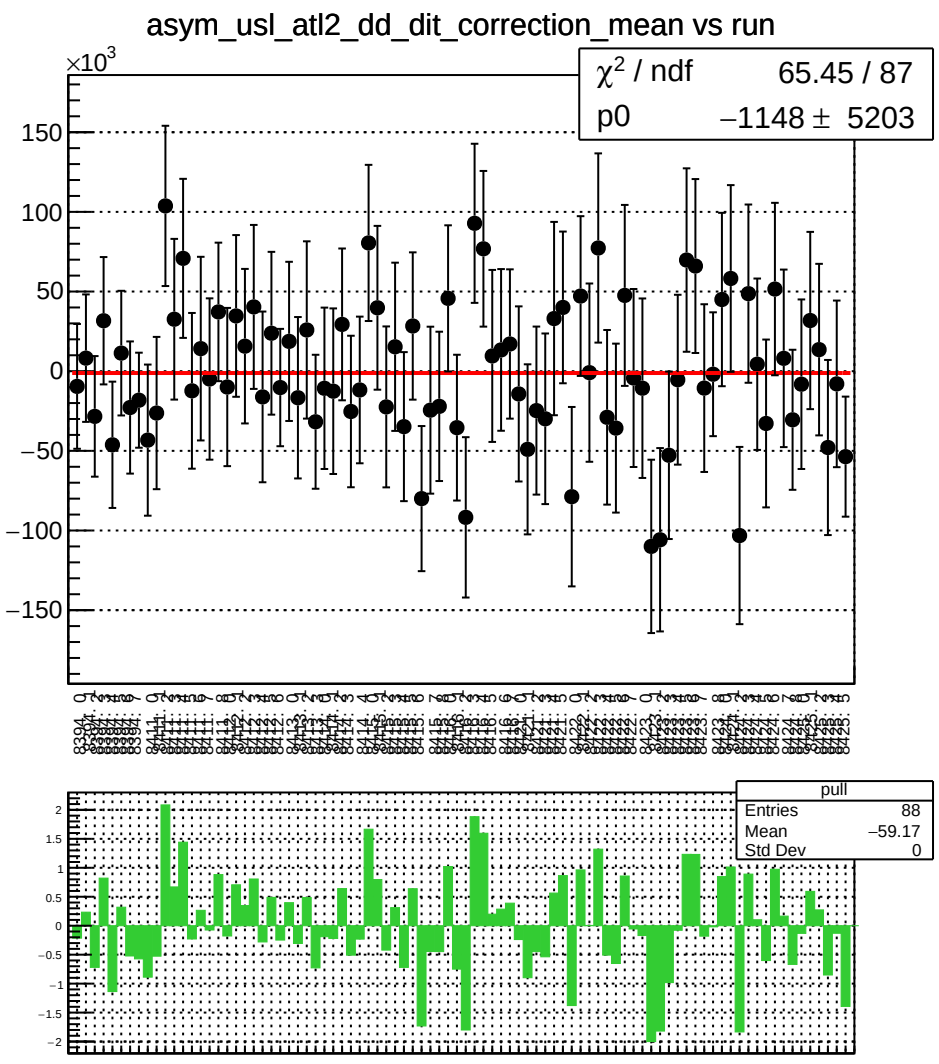

pull1D
Entries 88
Mean 0.01953
Std Dev 0.8633
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

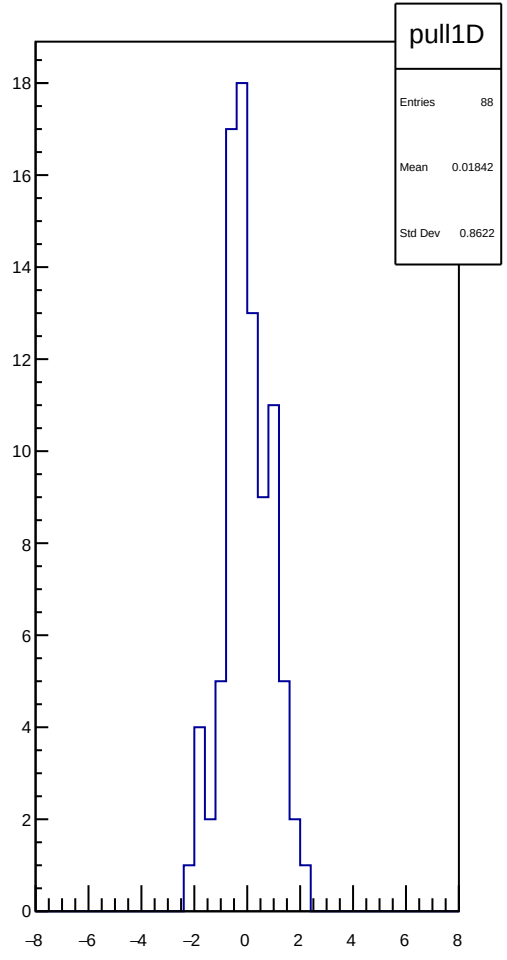

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.002e+04 / 87
p0 4737 ± 3.663
5500
5000
4500
4000
3500

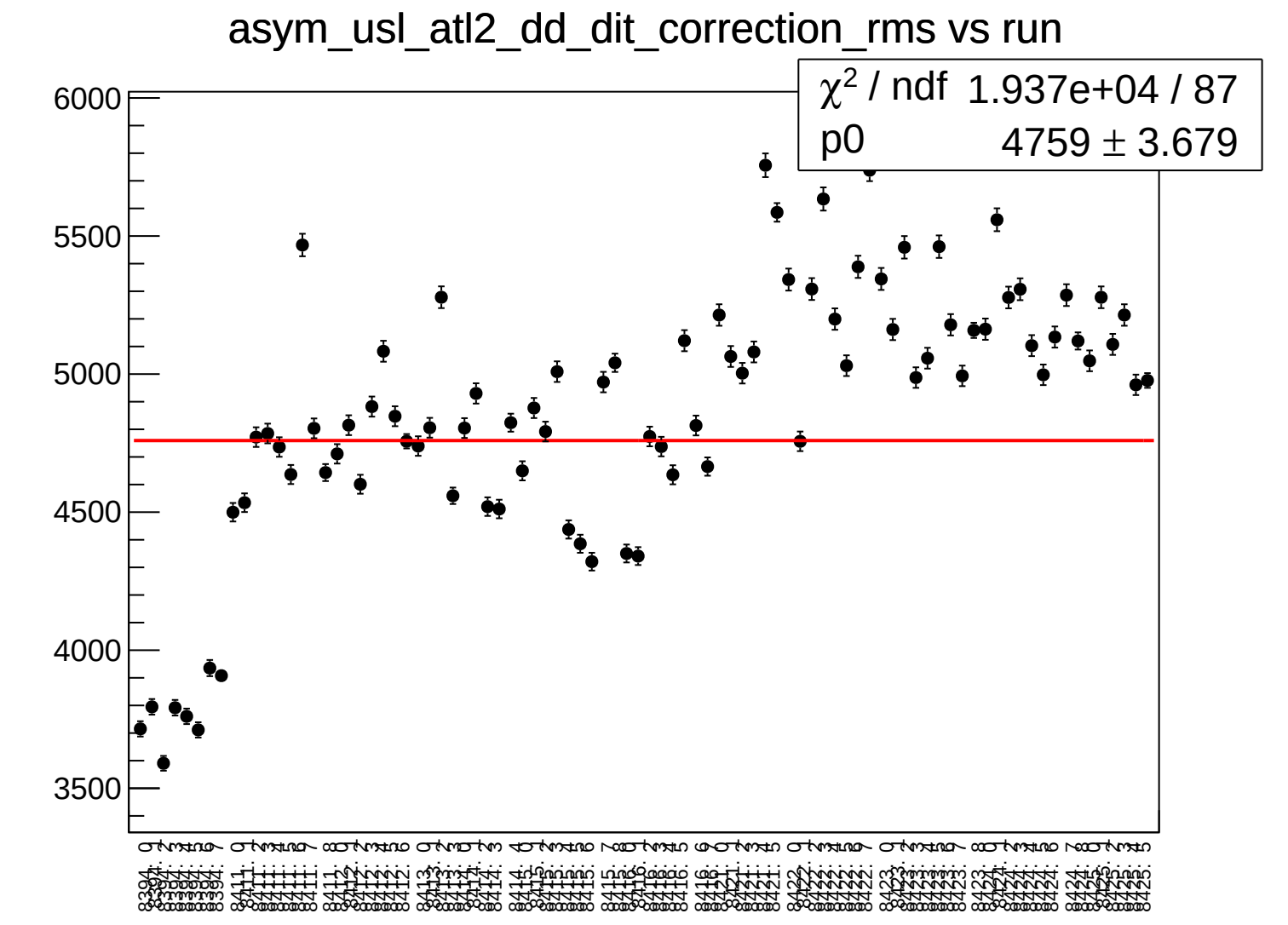

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 104.1 / 87
p0 299.1 ± 1096
pull
Entries 88
Mean 907.5
Std Dev 0

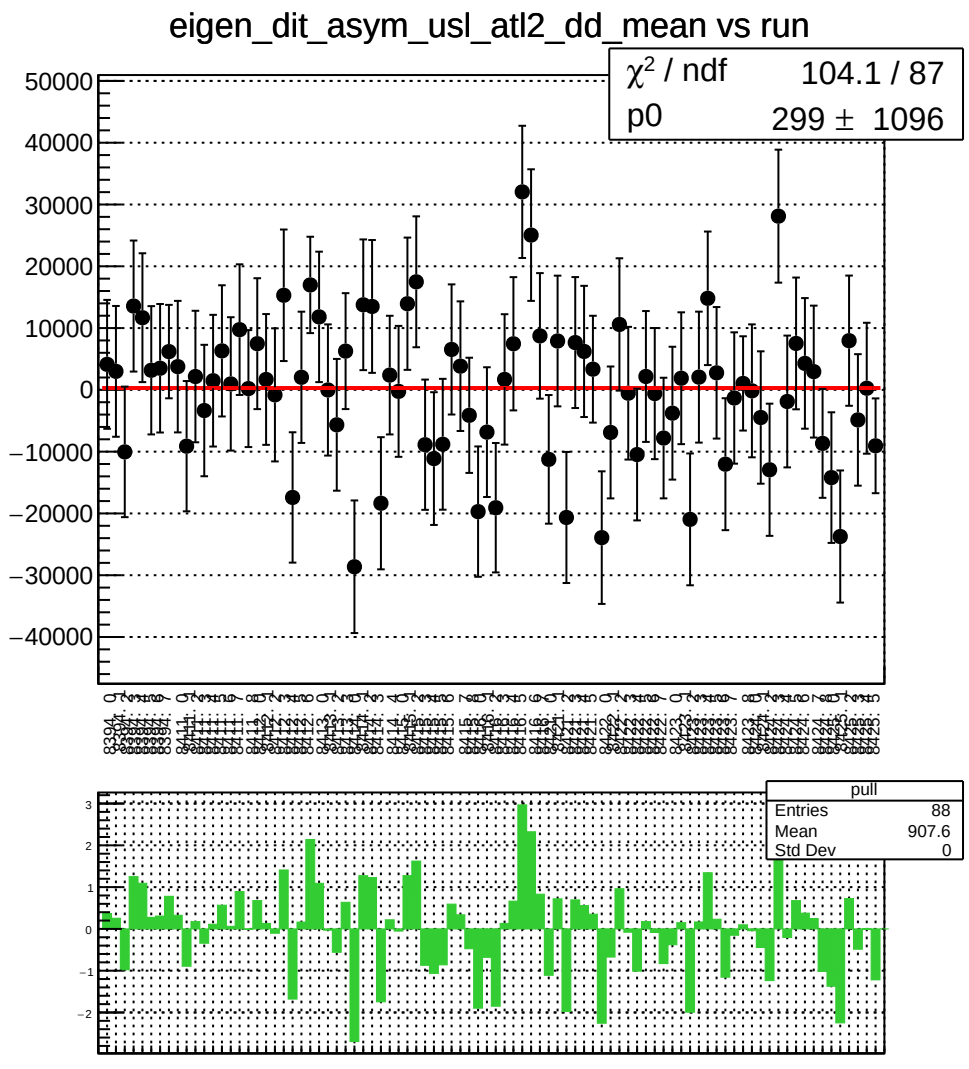

pull1D
Entries 88
Mean −0.00582
Std Dev 1.088

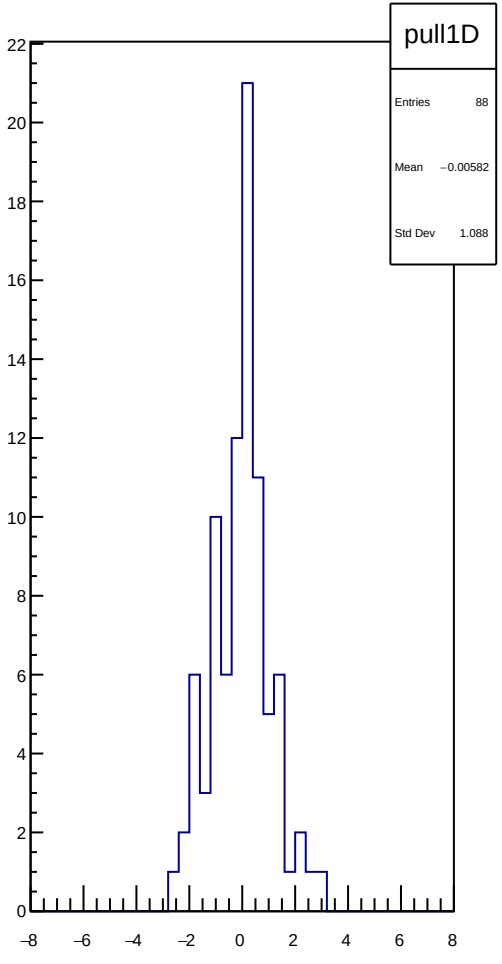

dit_asym_usl_atl2_dd_rms vs run
χ^2 / ndf 130.9 / 87
p0 1008 ± 0.7747
1030
1020
1010
1000
990
980

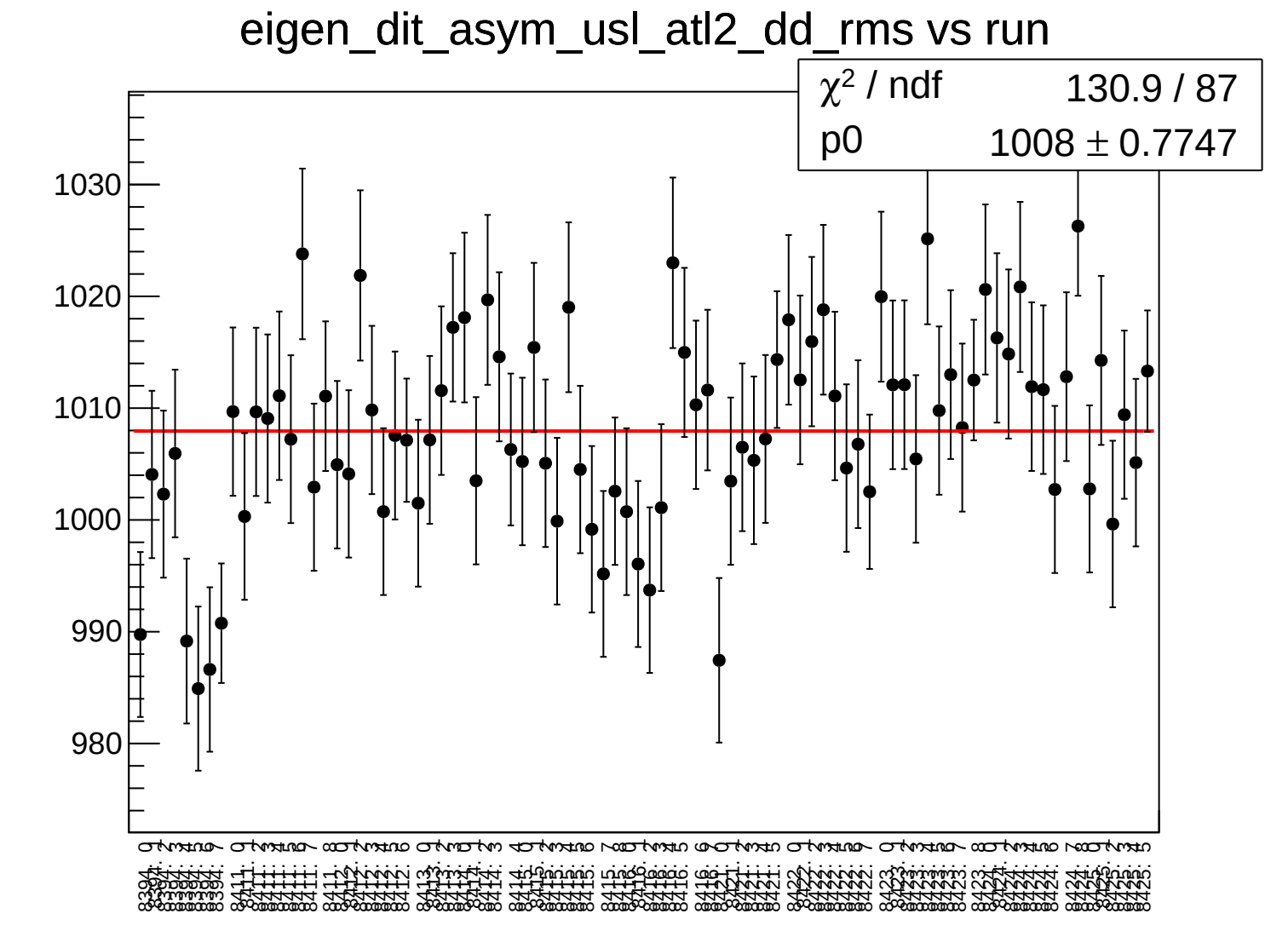

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 65.45 / 87
p0 −1148 ± 5203
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −59.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

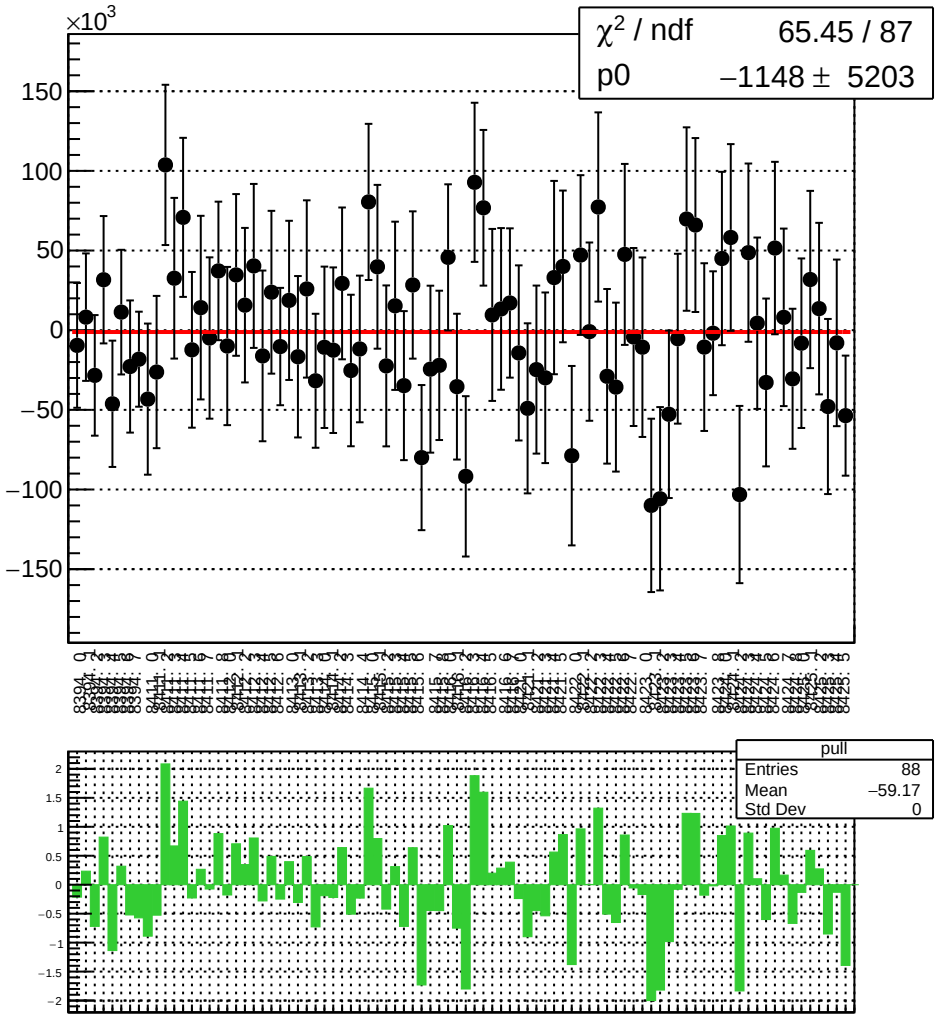

pull1D
Entries 88
Mean 0.01842
Std Dev 0.8622
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

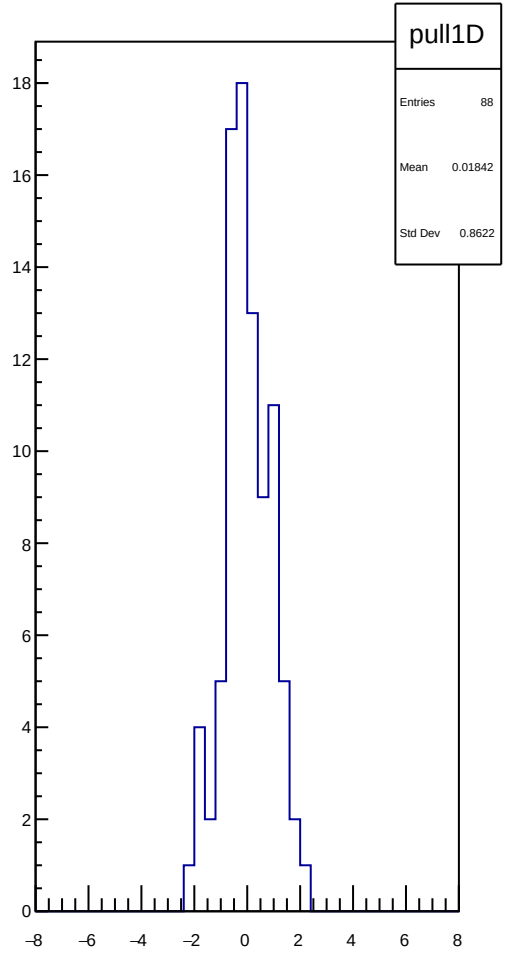

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 1.937e+04 / 87
p0 4759 ± 3.679
6000
5500
5000
4500
4000
3500

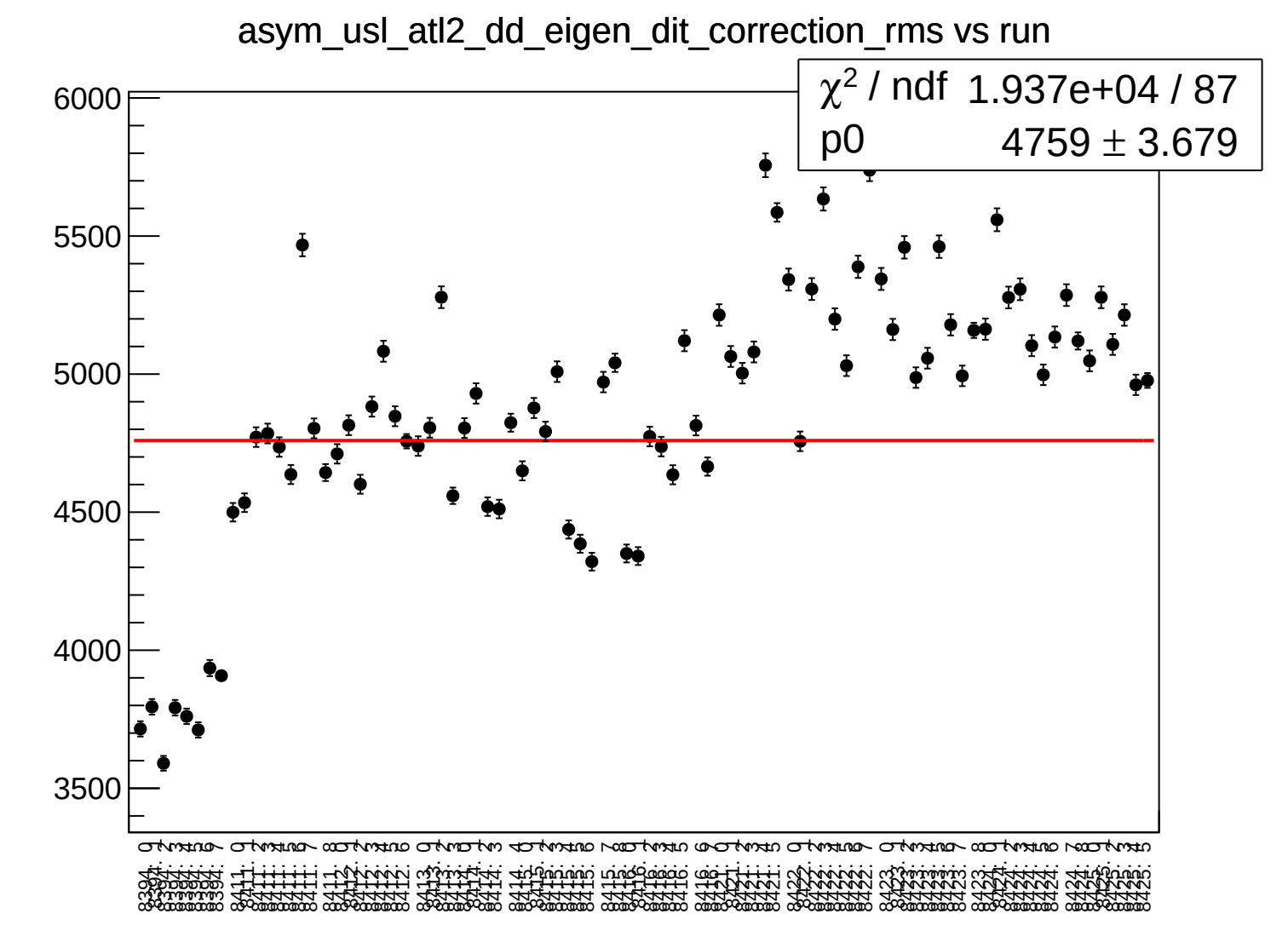

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 104.1 / 87
p0 299 ± 1096
pull
Entries 88
Mean 907.6
Std Dev 0

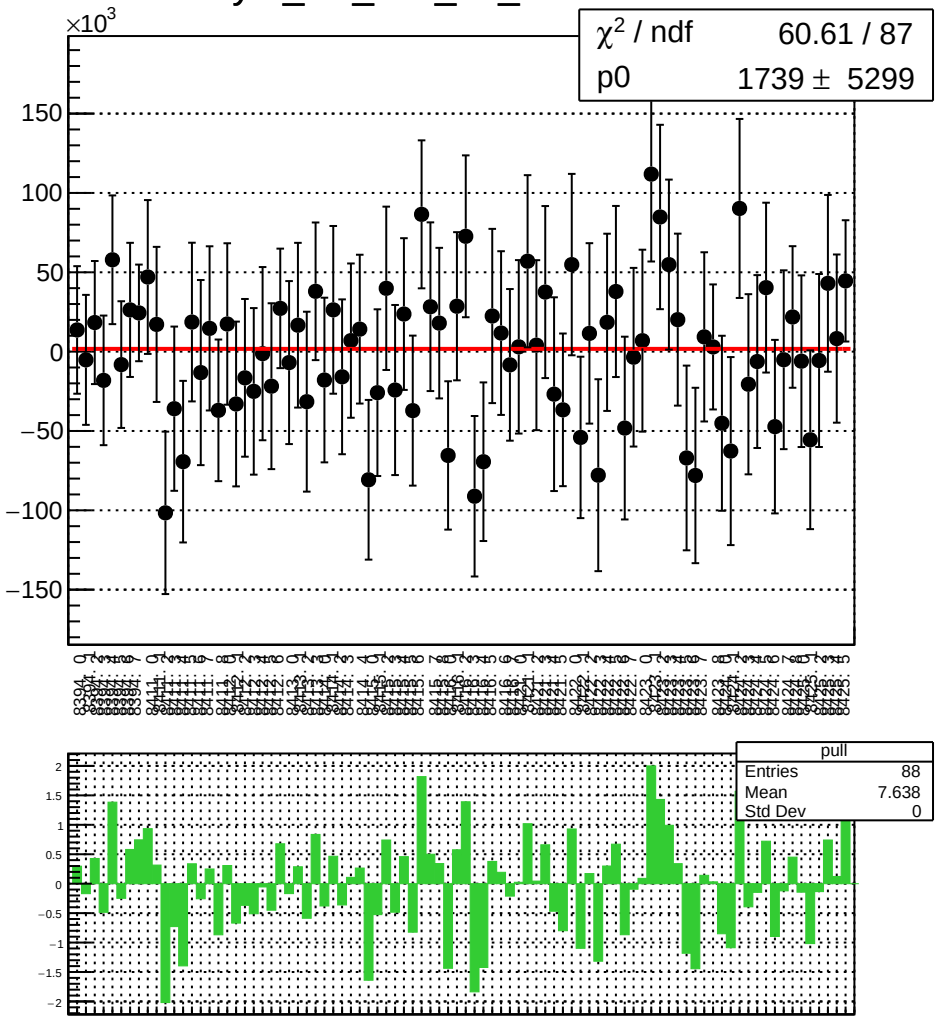

pull1D
Entries 88
Mean −0.00582
Std Dev 1.088

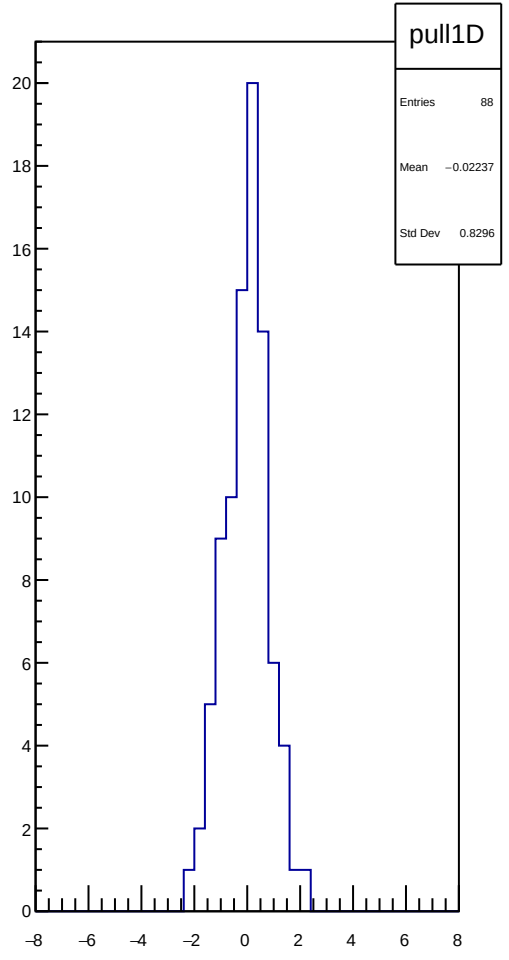

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 130.9 / 87
p0 1008 ± 0.7747
1030
1020
1010
1000
990
980

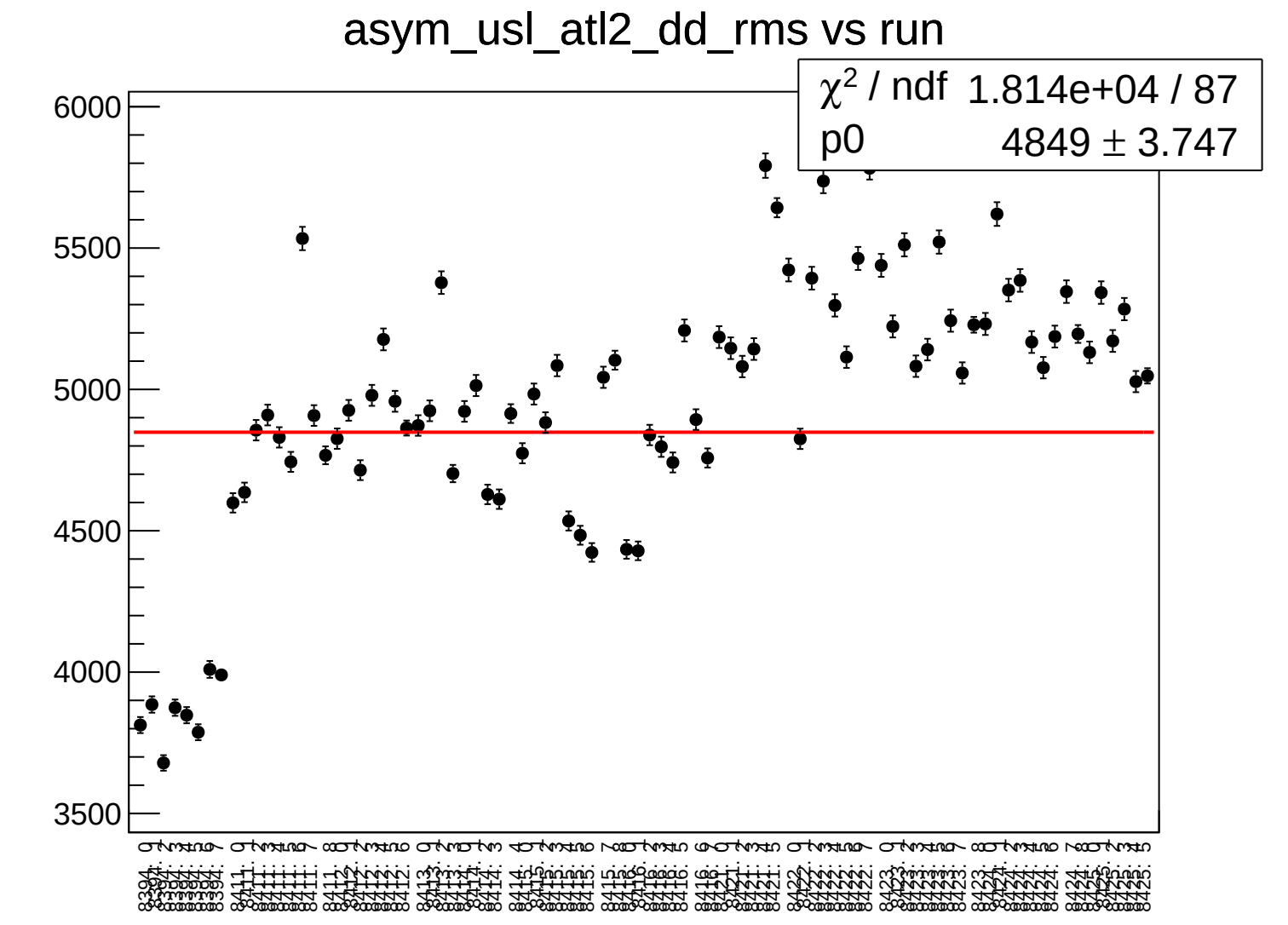

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
χ² / ndf 65.45 / 87
p0 −1148 ± 5203
pull
Entries 88
Mean −59.17
Std Dev 0

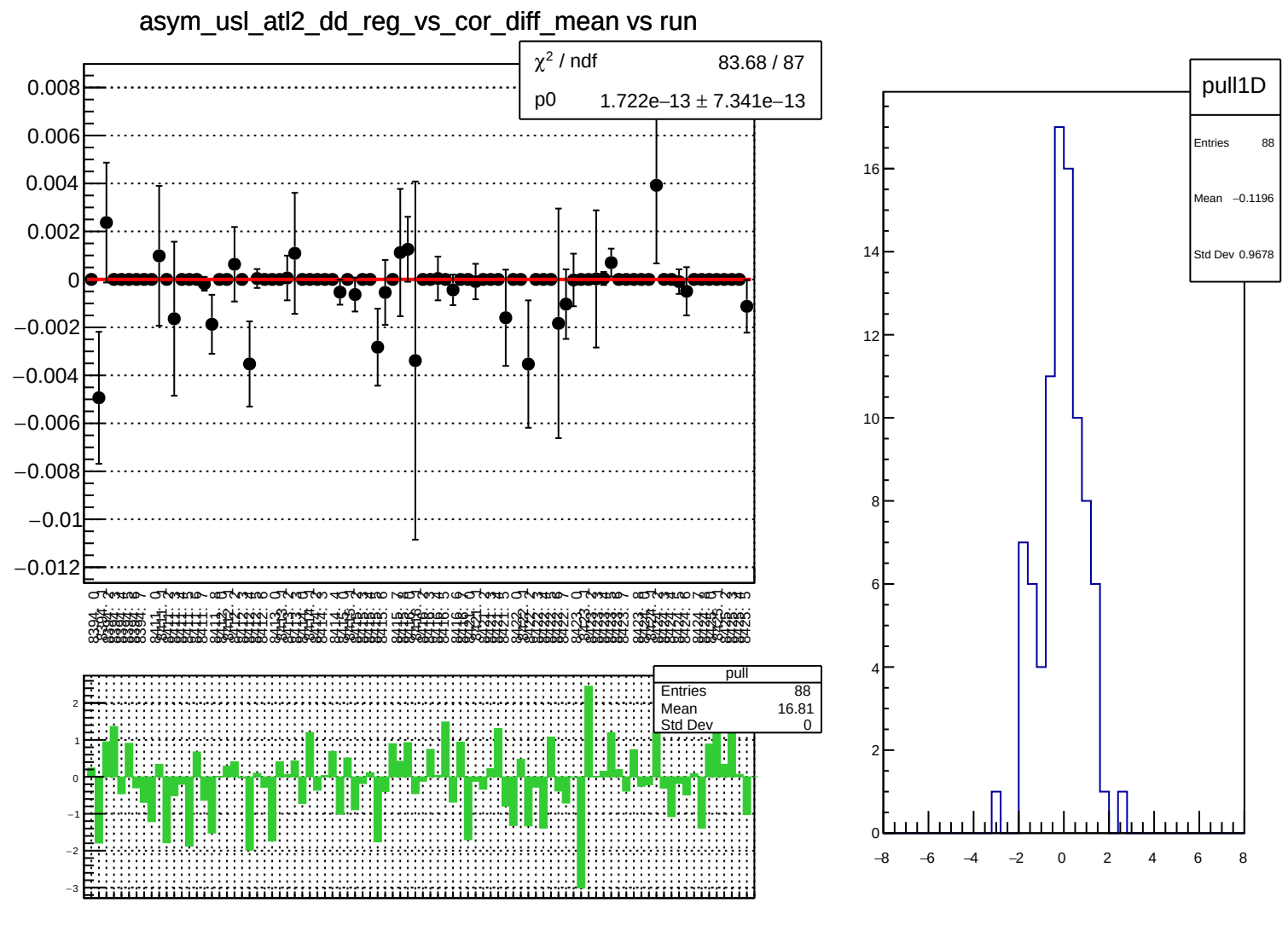

pull1D
Entries 88
Mean 0.01842
Std Dev 0.8622

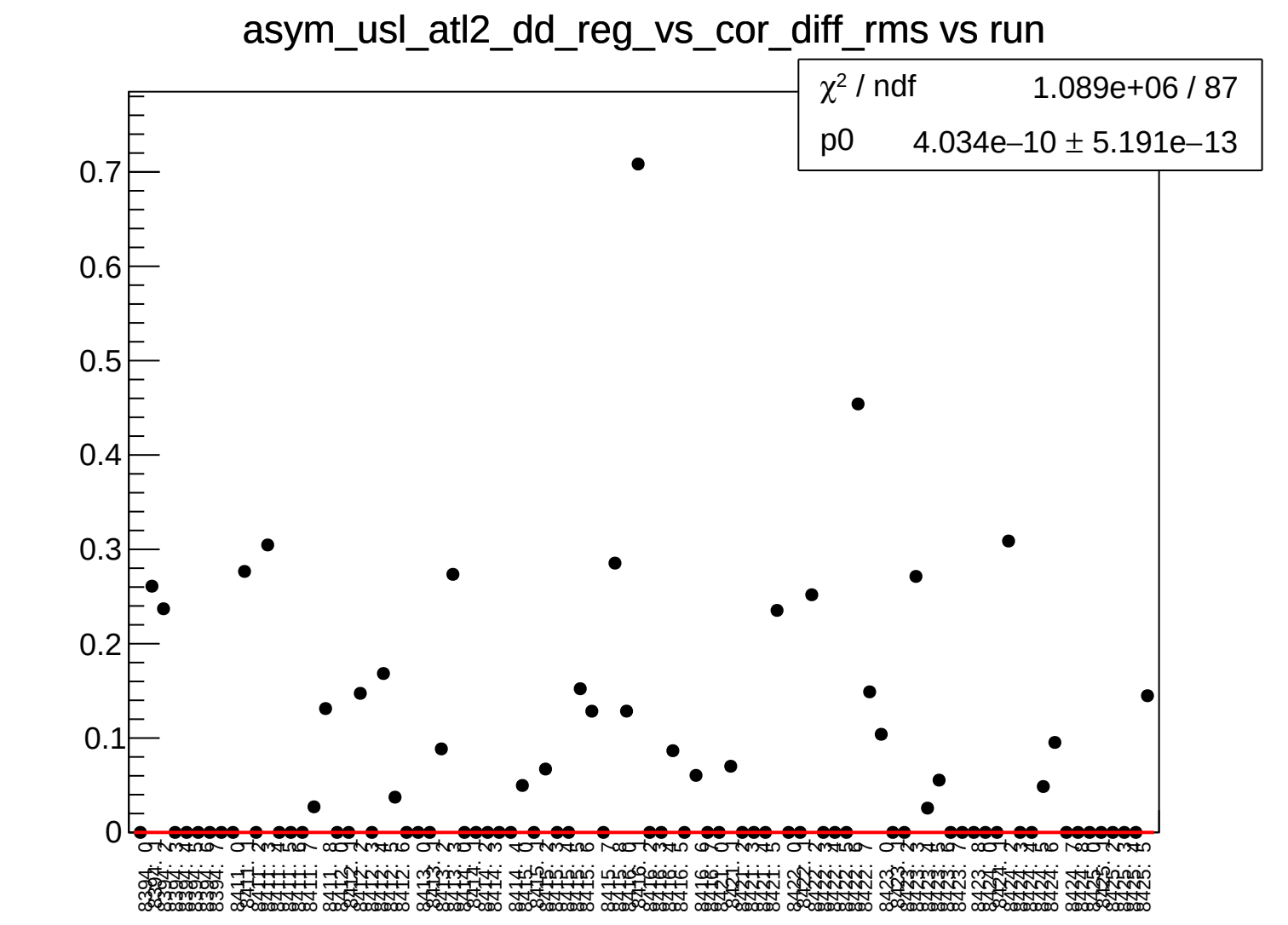

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.937e+04 / 87
p0 4759 ± 3.679
6000
5500
5000
4500
4000
3500

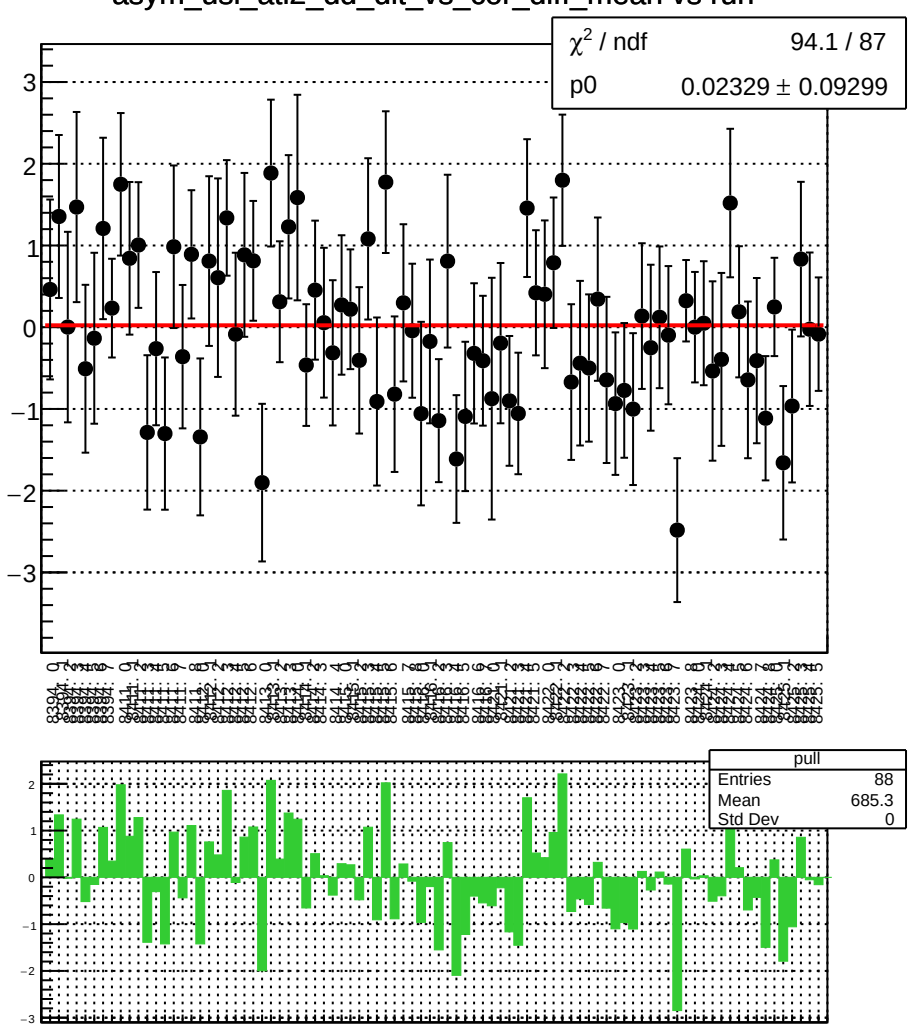

asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 60.61 / 87
p0 1739 ± 5299
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 7.638
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

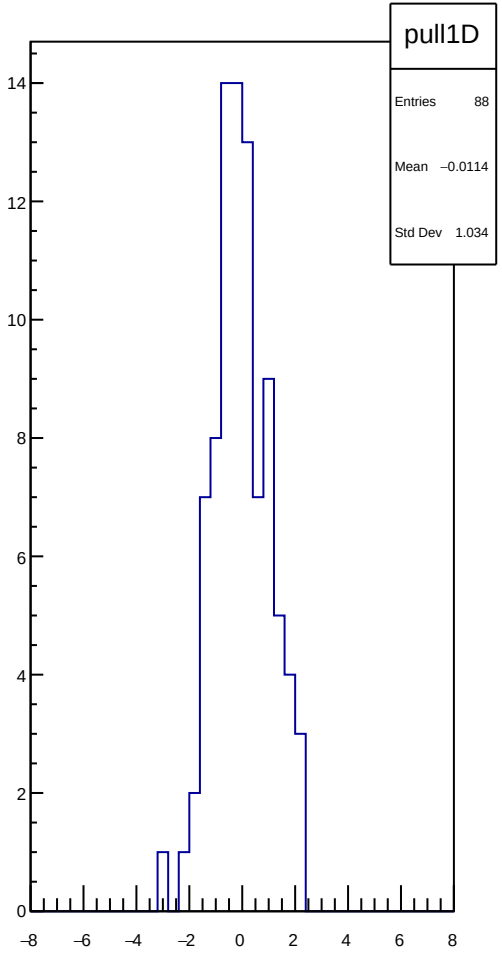

pull1D
Entries 88
Mean −0.02237
Std Dev 0.8296
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

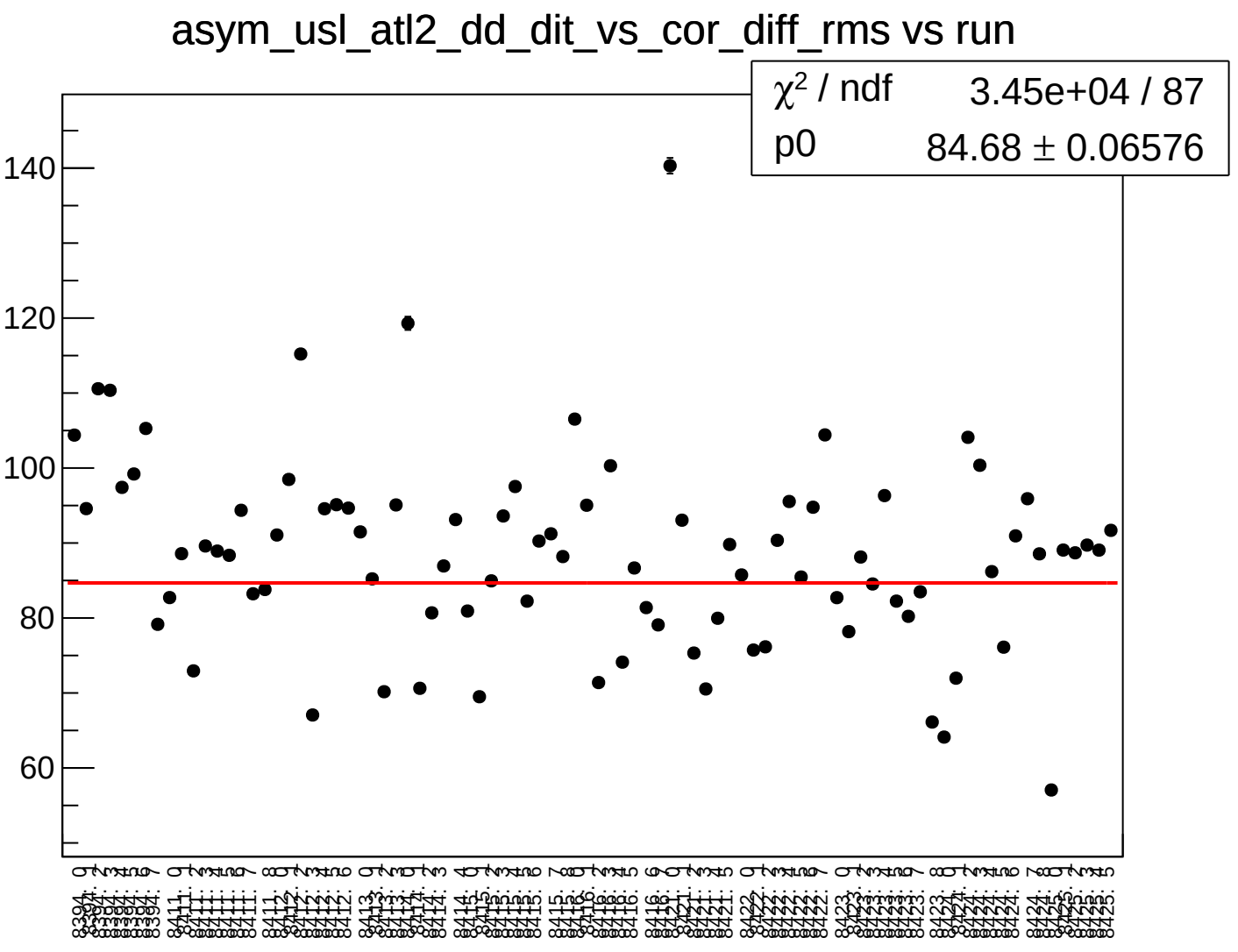

asym_usl_atl2_dd_rms vs run
χ² / ndf 1.814e+04 / 87
p0 4849 ± 3.747
6000
5500
5000
4500
4000
3500

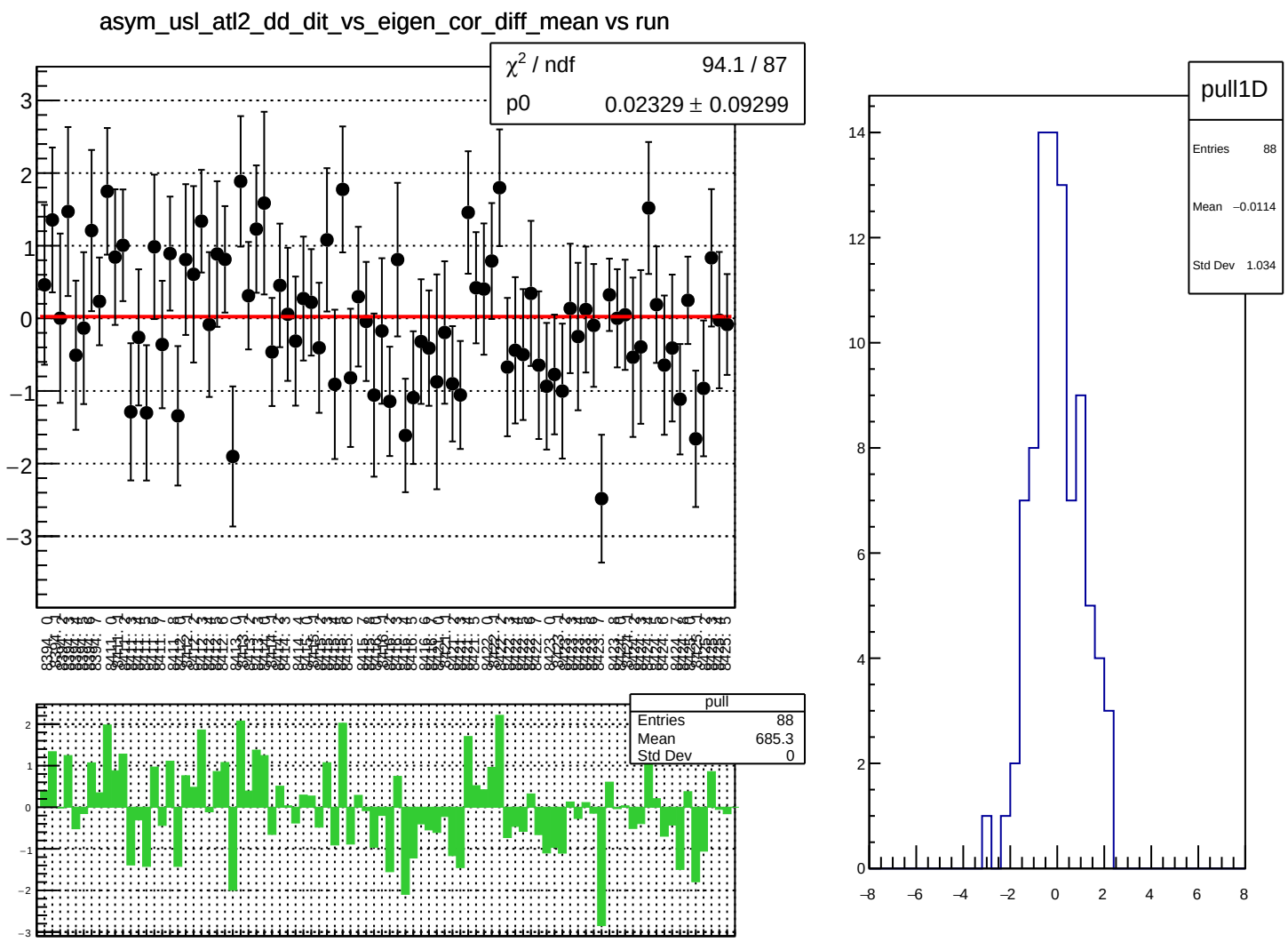

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 83.68 / 87
p0 1.722e−13 ± 7.341e−13
pull
Entries 88
Mean 16.81
Std Dev 0
pull1D
Entries 88
Mean −0.1196
Std Dev 0.9678

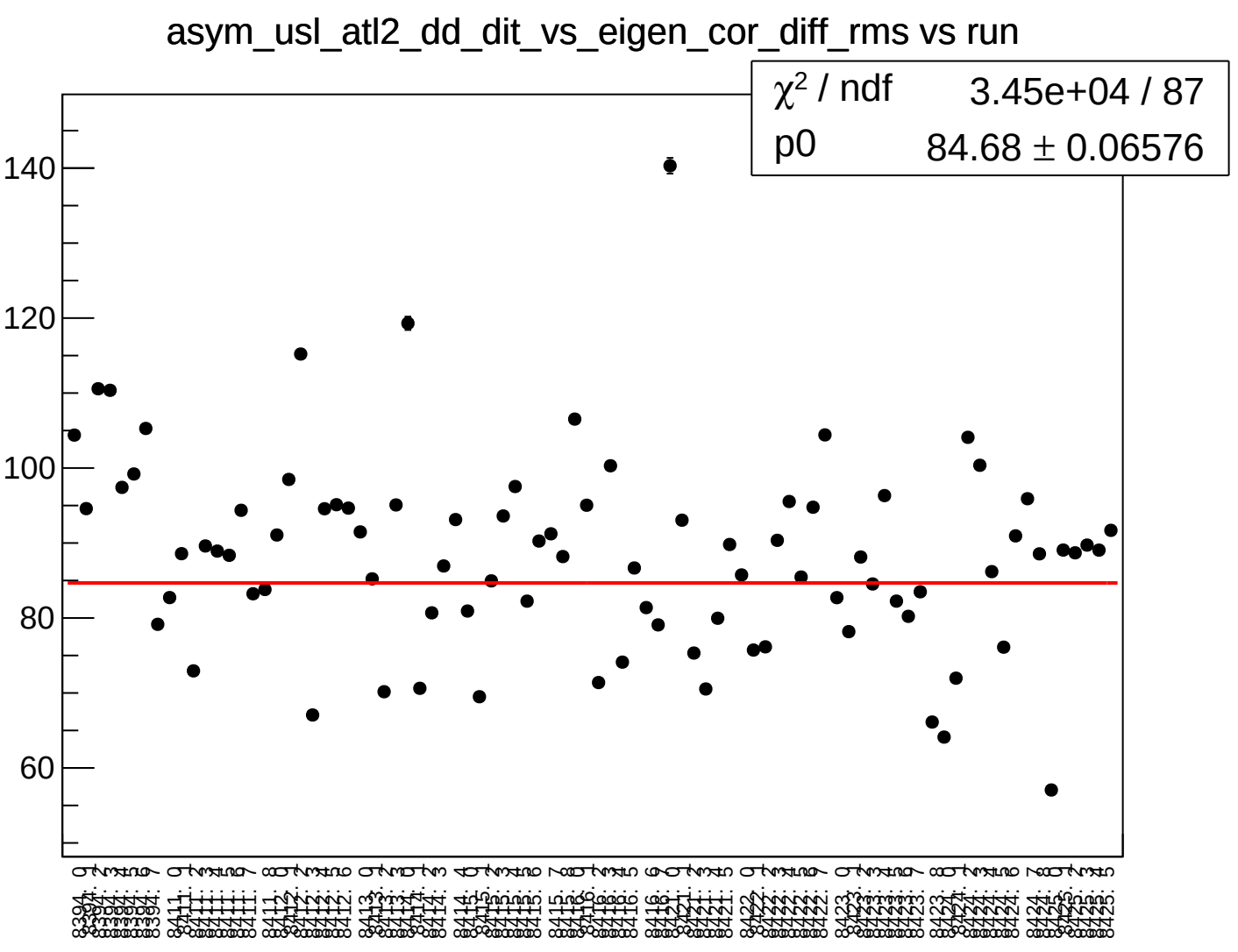

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.089e+06 / 87
p0 4.034e−10 ± 5.191e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

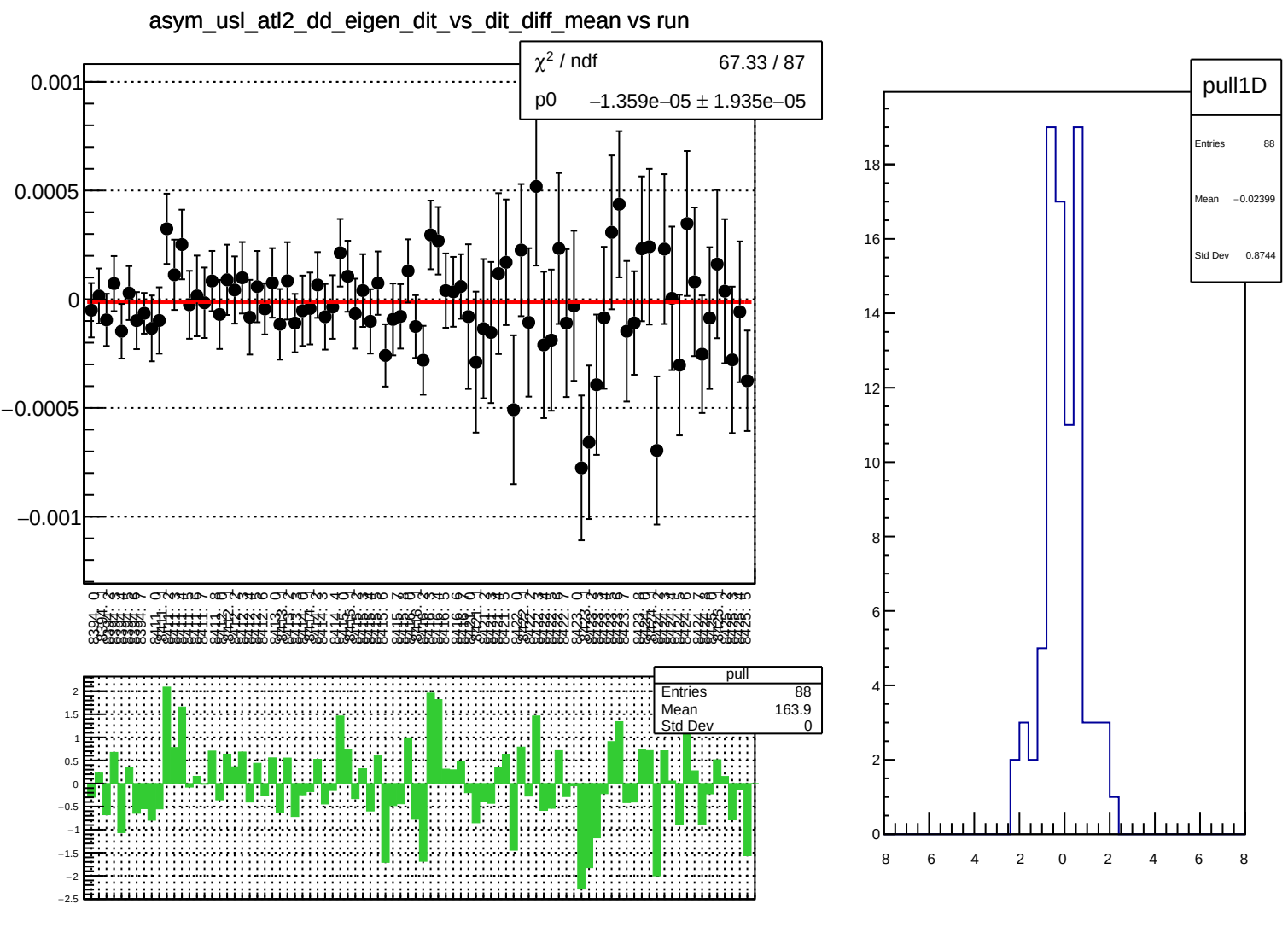

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 94.1 / 87
p0 0.02329 ± 0.09299
pull
Entries 88
Mean 685.3
Std Dev 0

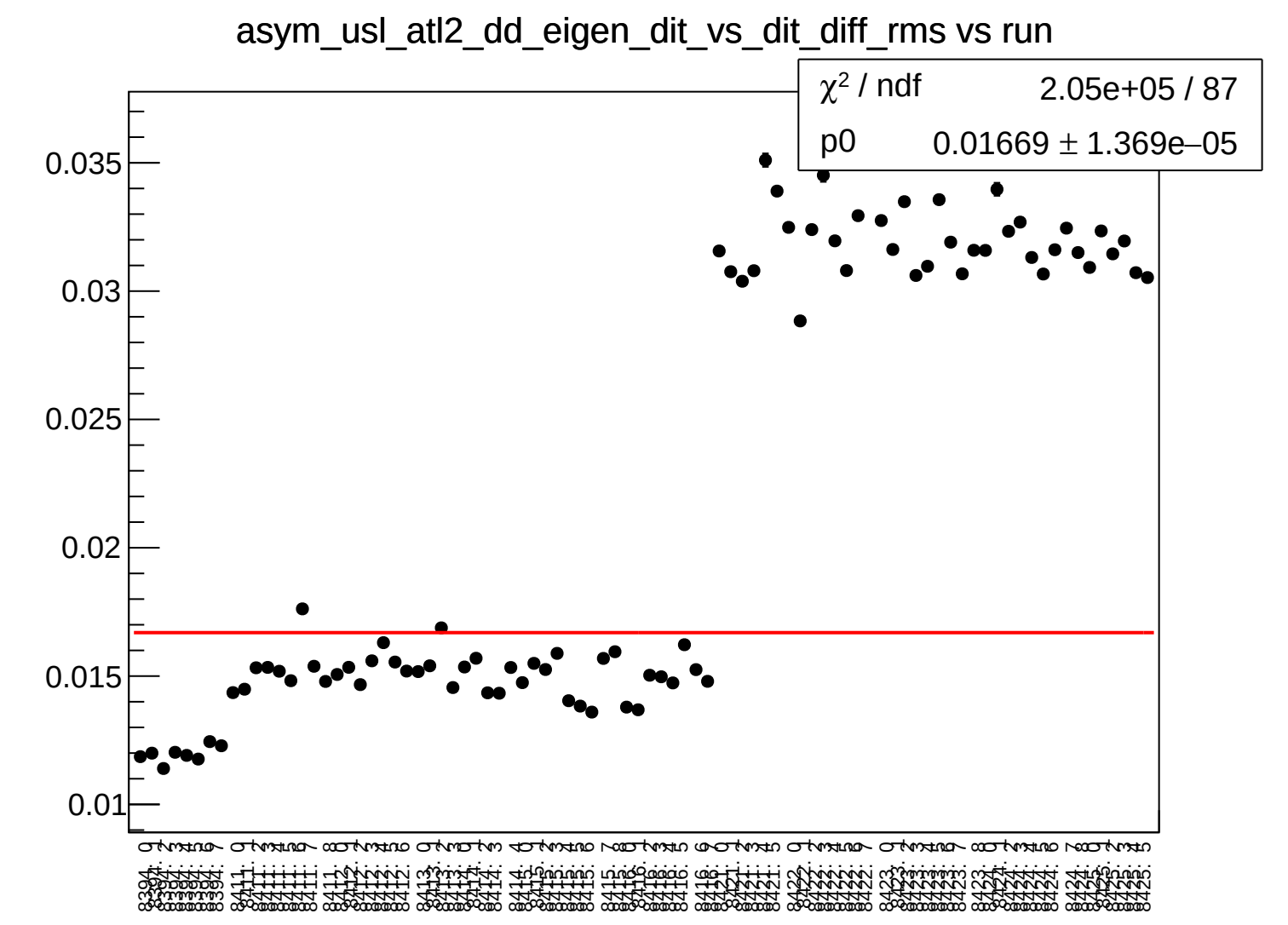

pull1D
Entries 88
Mean −0.0114
Std Dev 1.034

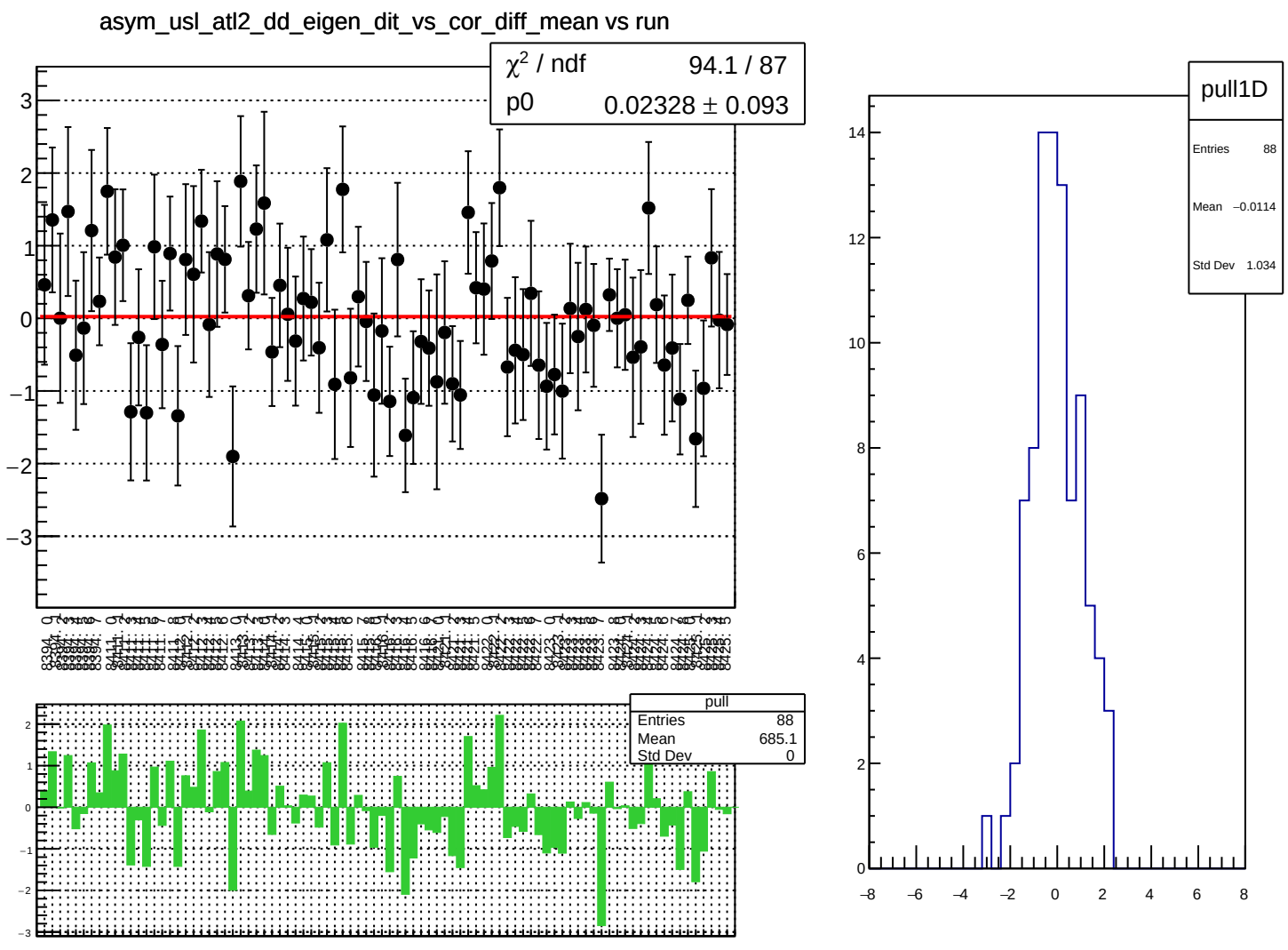

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.45e+04 / 87
p0 84.68 ± 0.06576
140
120
100
80
60

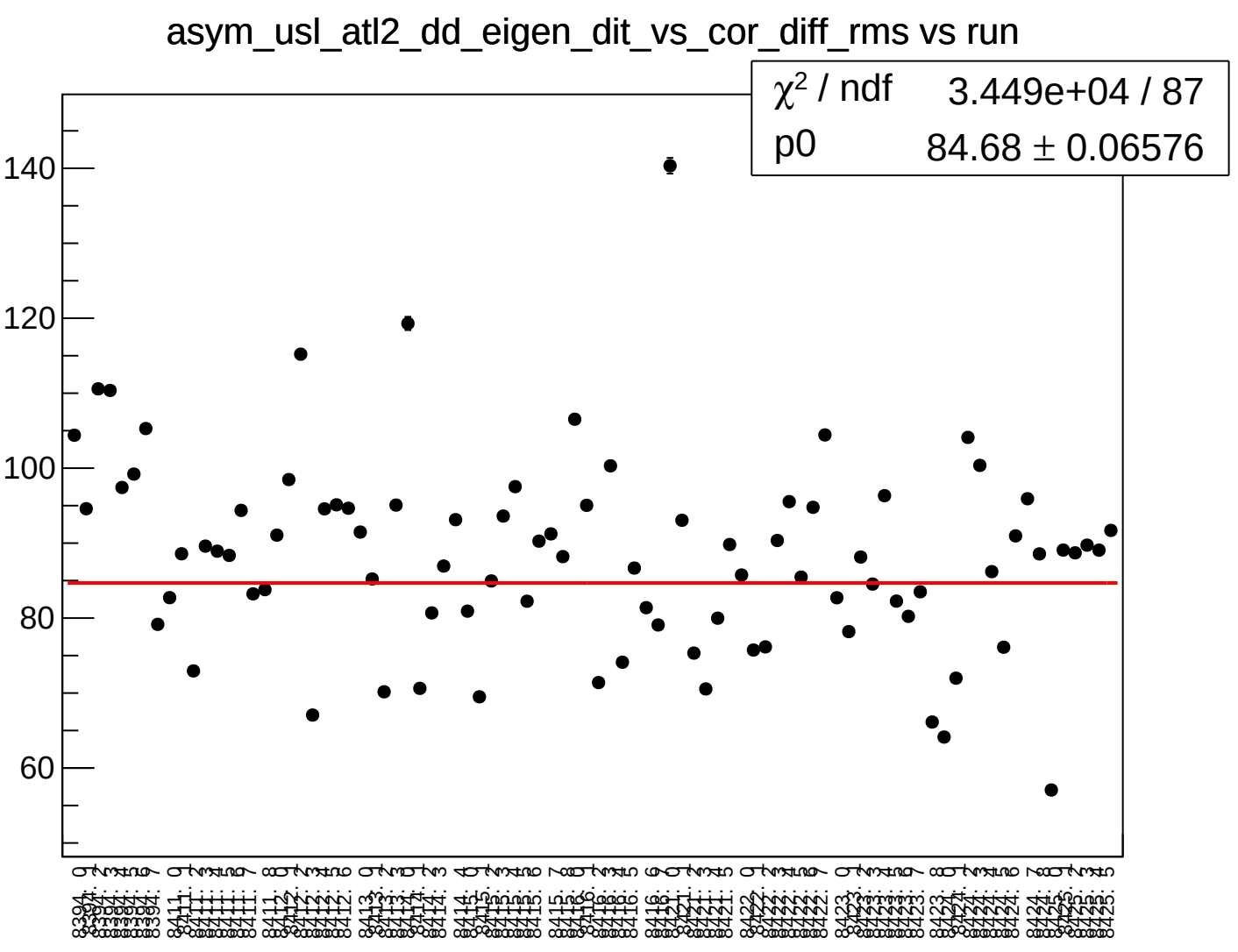

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.1 / 87
p0 0.02329 ± 0.09299
pull
Entries 88
Mean 685.3
Std Dev 0
pull1D
Entries 88
Mean −0.0114
Std Dev 1.034

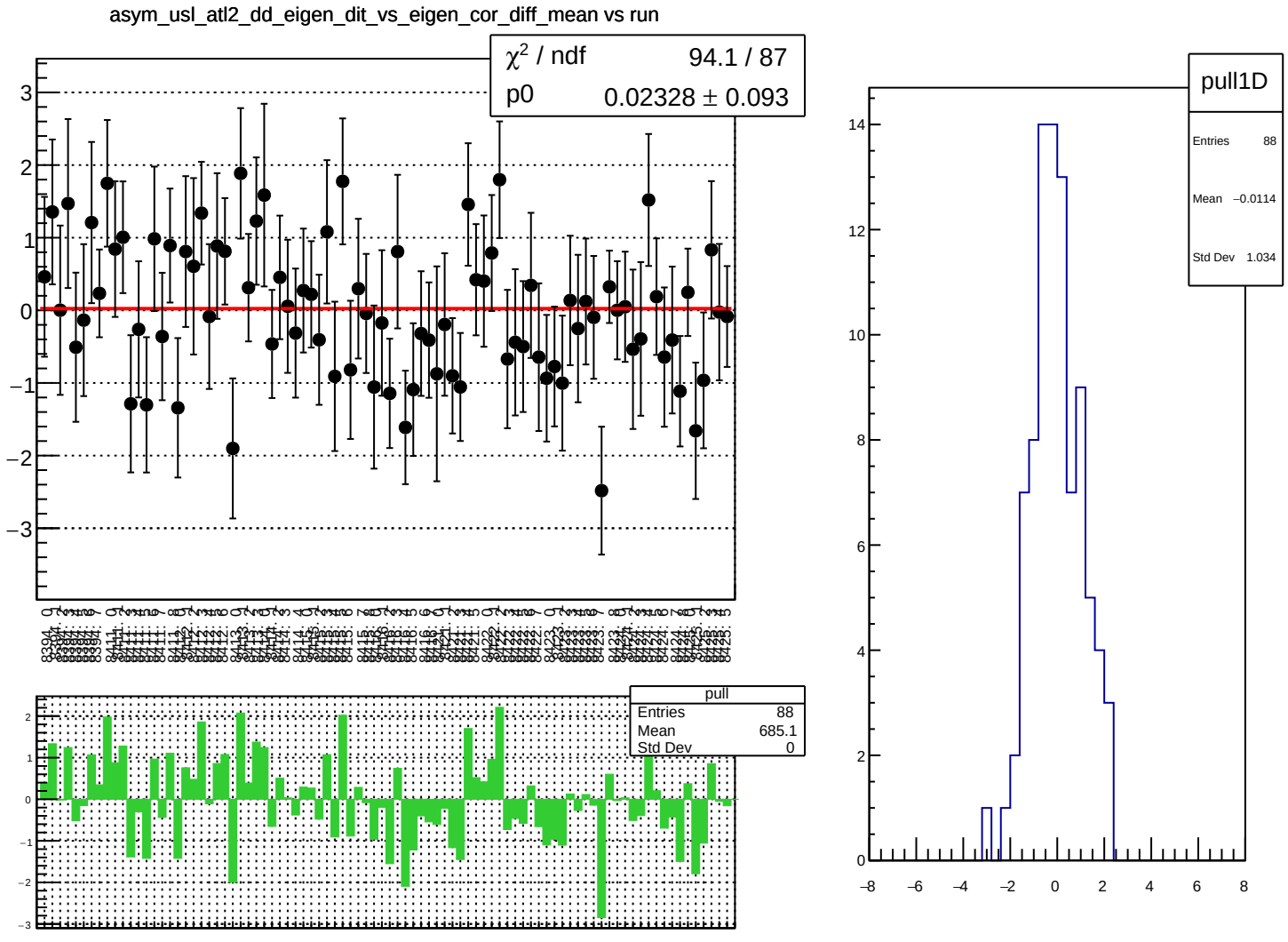

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.45e+04 / 87
p0 84.68 ± 0.06576
140
120
100
80
60

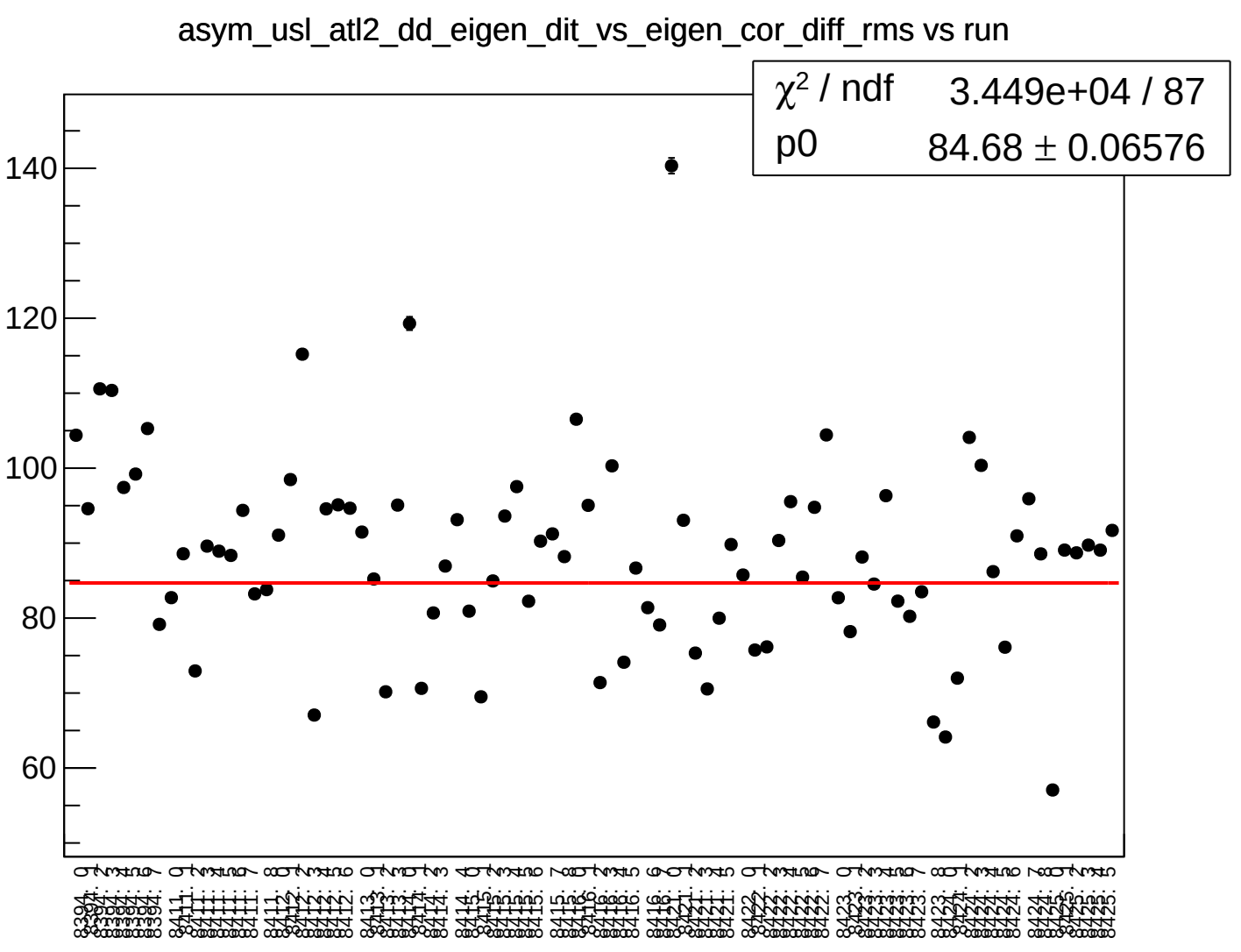

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 67.33 / 87
p0 −1.359e−05 ± 1.935e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean 163.9
Std Dev 0
pull1D
Entries 88
Mean −0.02399
Std Dev 0.8744

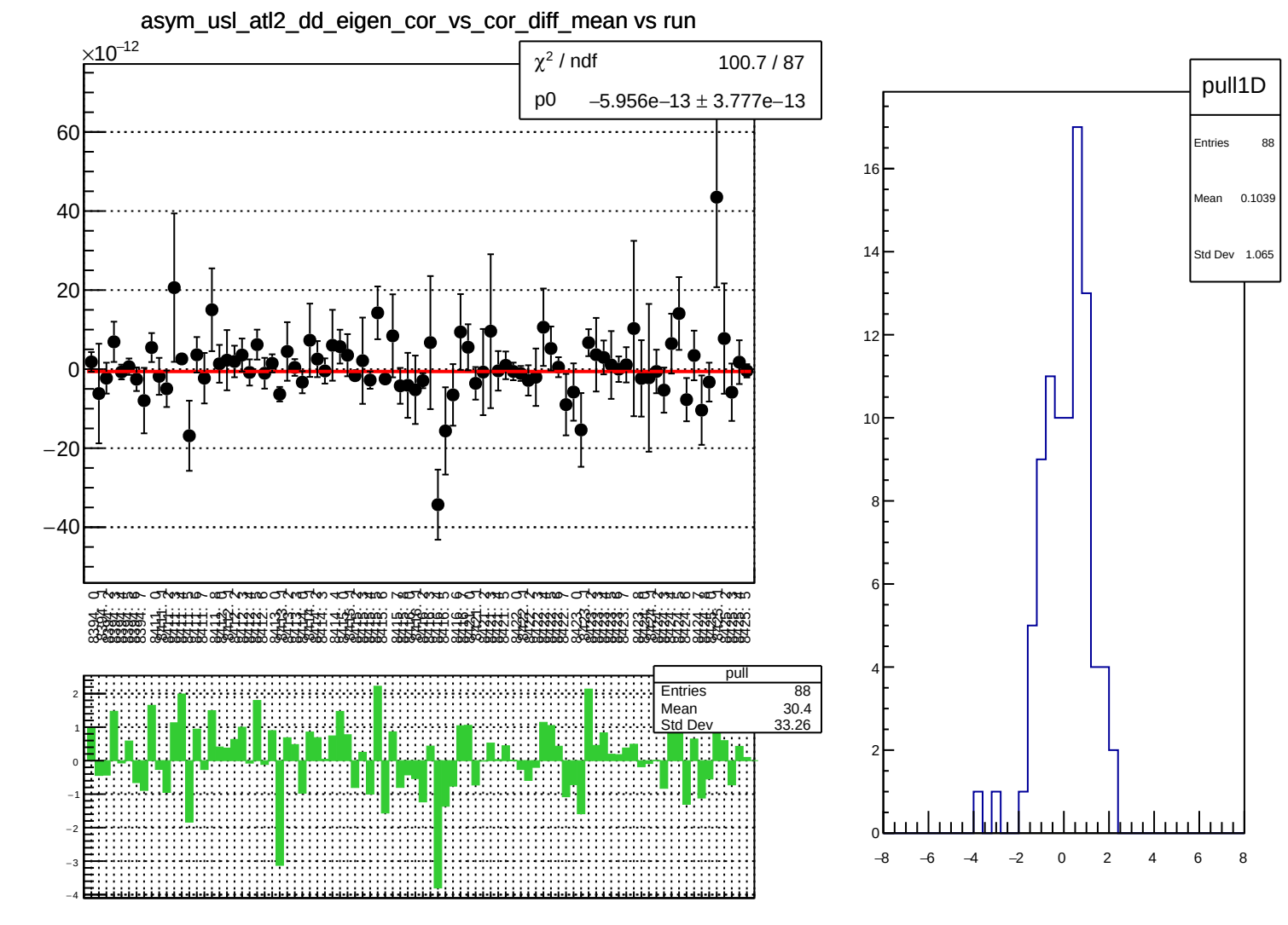

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.05e+05 / 87
p0 0.01669 ± 1.369e−05
0.035
0.03
0.025
0.02
0.015
0.01

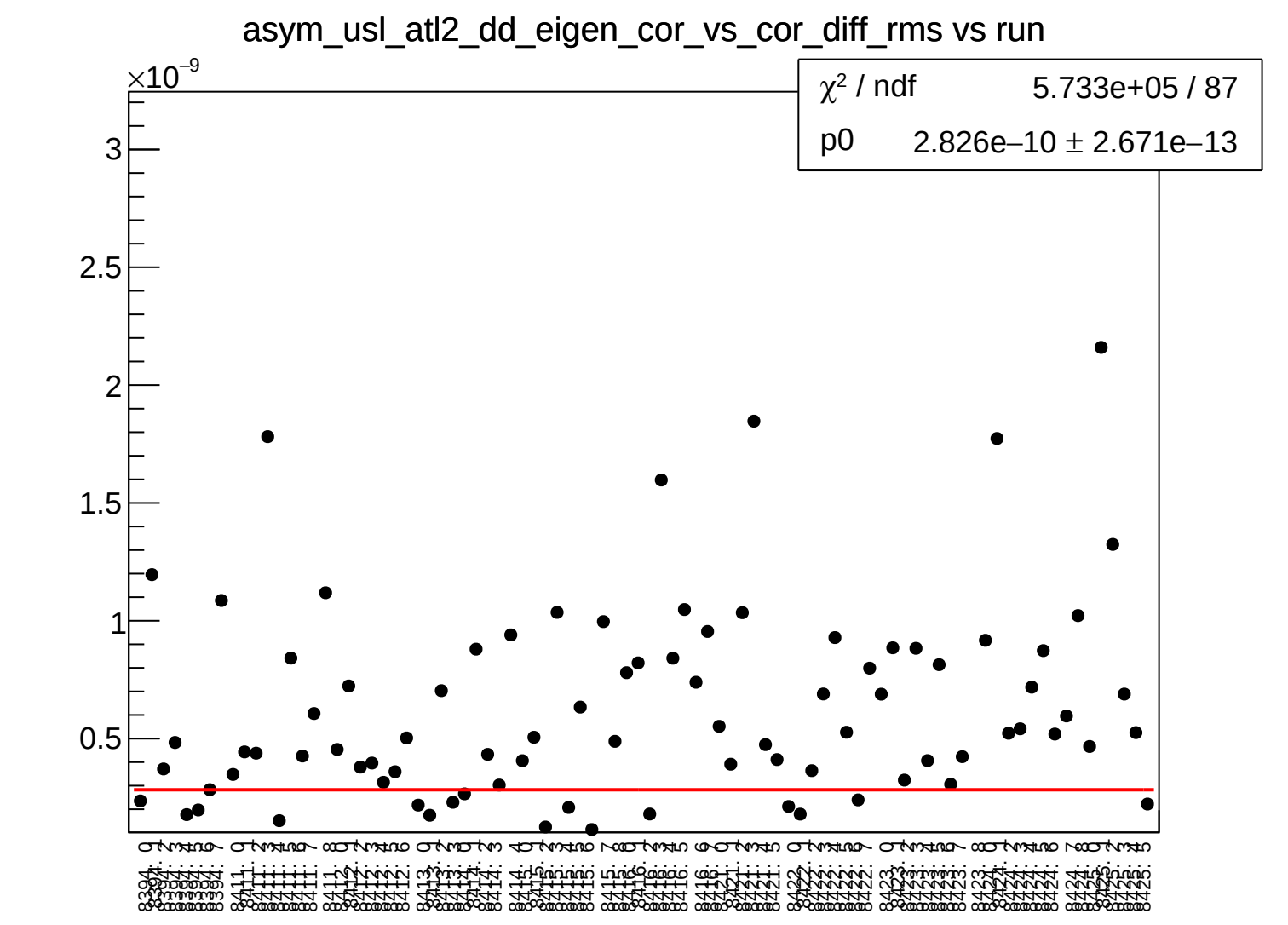

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.1 / 87
p0 0.02328 ± 0.093
pull
Entries 88
Mean 685.1
Std Dev 0
pull1D
Entries 88
Mean −0.0114
Std Dev 1.034

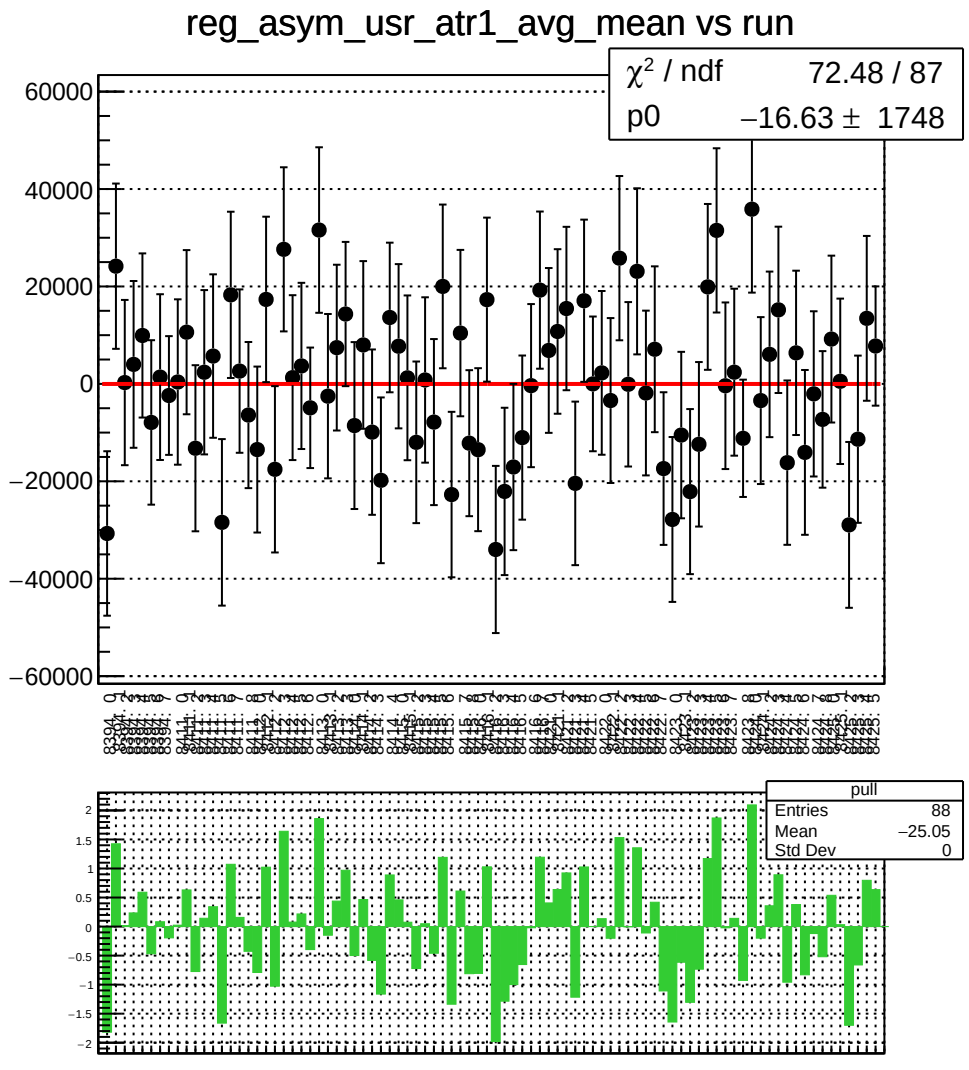

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.449e+04 / 87
p0 84.68 ± 0.06576
140
120
100
80
60

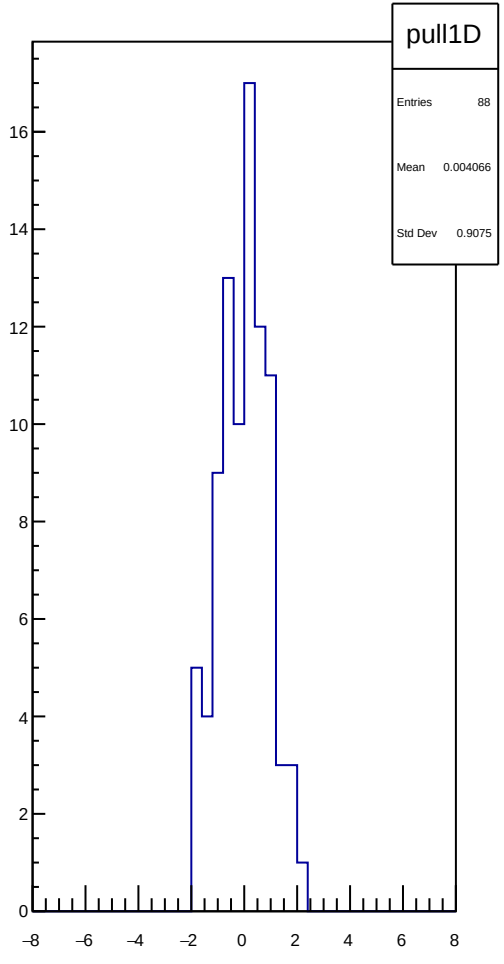

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.1 / 87
p0 0.02328 ± 0.093
pull
Entries 88
Mean 685.1
Std Dev 0
pull1D
Entries 88
Mean −0.0114
Std Dev 1.034

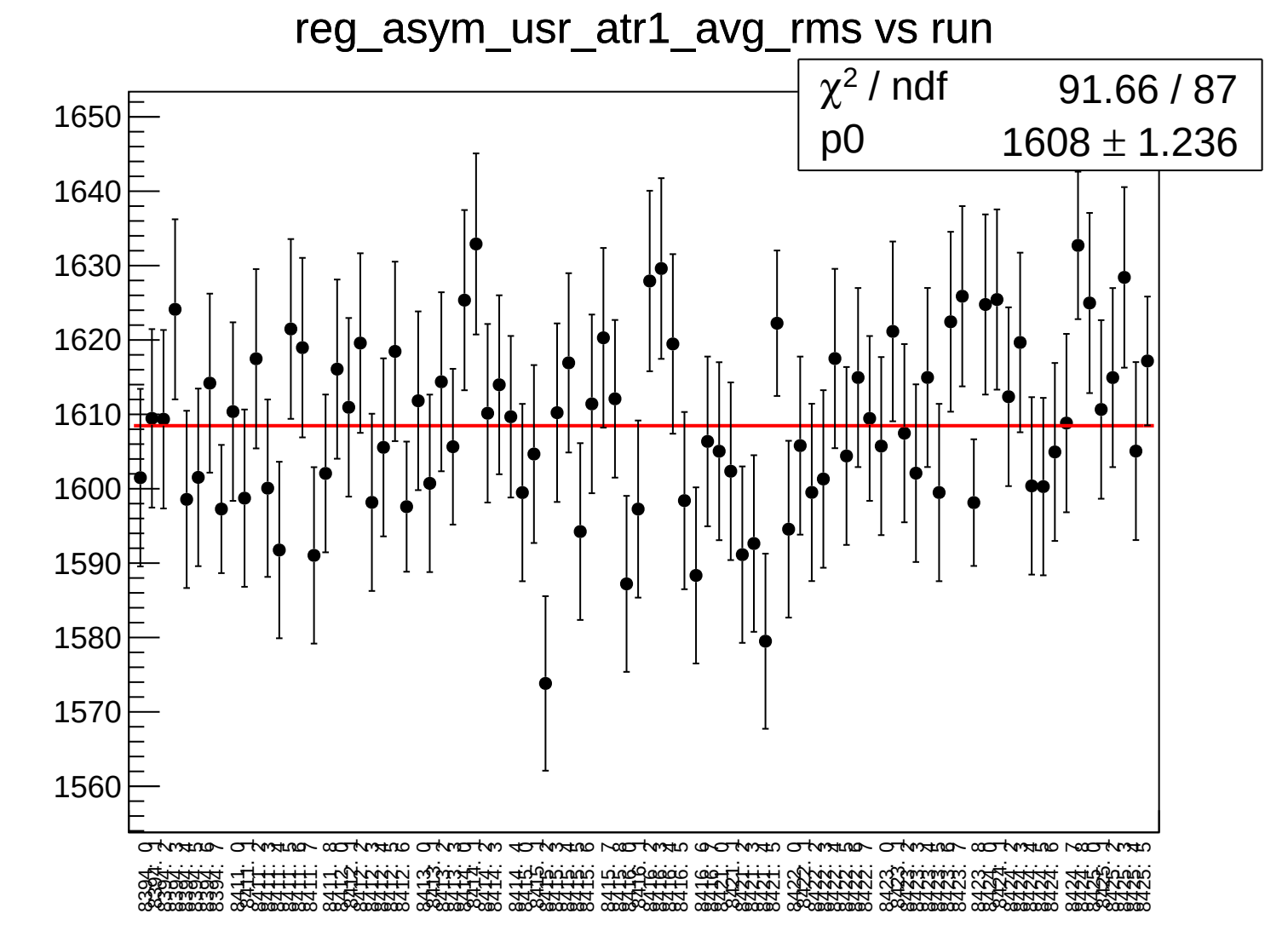

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.449e+04 / 87
p0 84.68 ± 0.06576
140
120
100
80
60

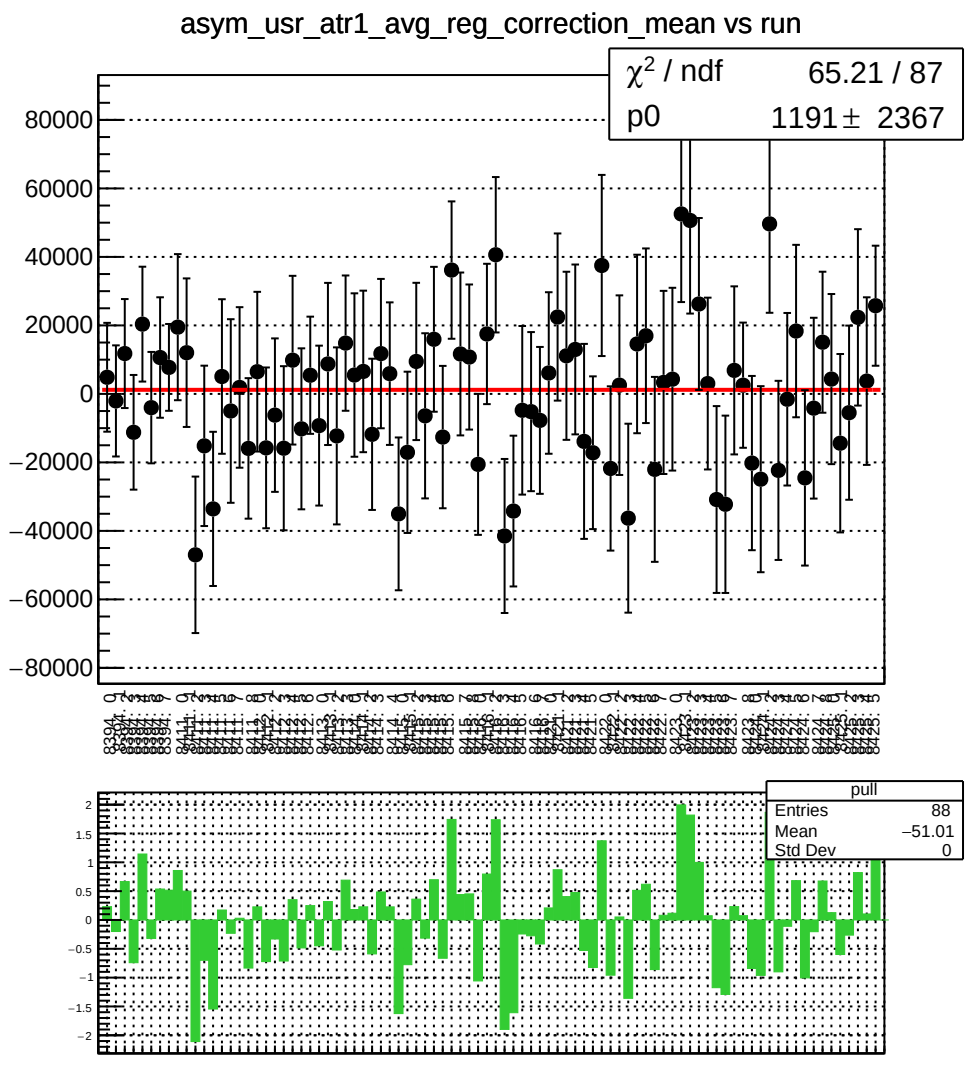

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.7 / 87
p0 −5.956e−13 ± 3.777e−13
60
40
20
0
−20
−40
pull
Entries 88
Mean 30.4
Std Dev 33.26
2
1
0
−1
−2
−3
−4
pull1D
Entries 88
Mean 0.1039
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

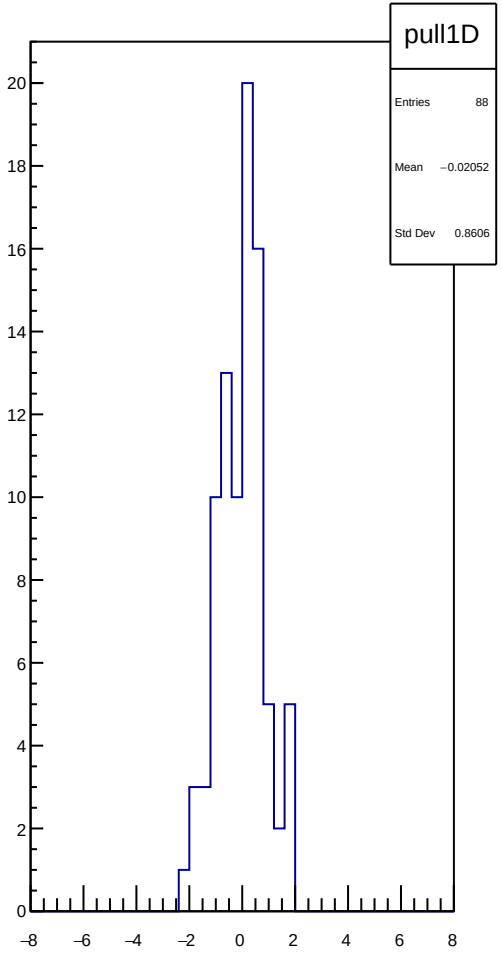

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.733e+05 / 87
p0 2.826e−10 ± 2.671e−13
3
2.5
2
1.5
1
0.5

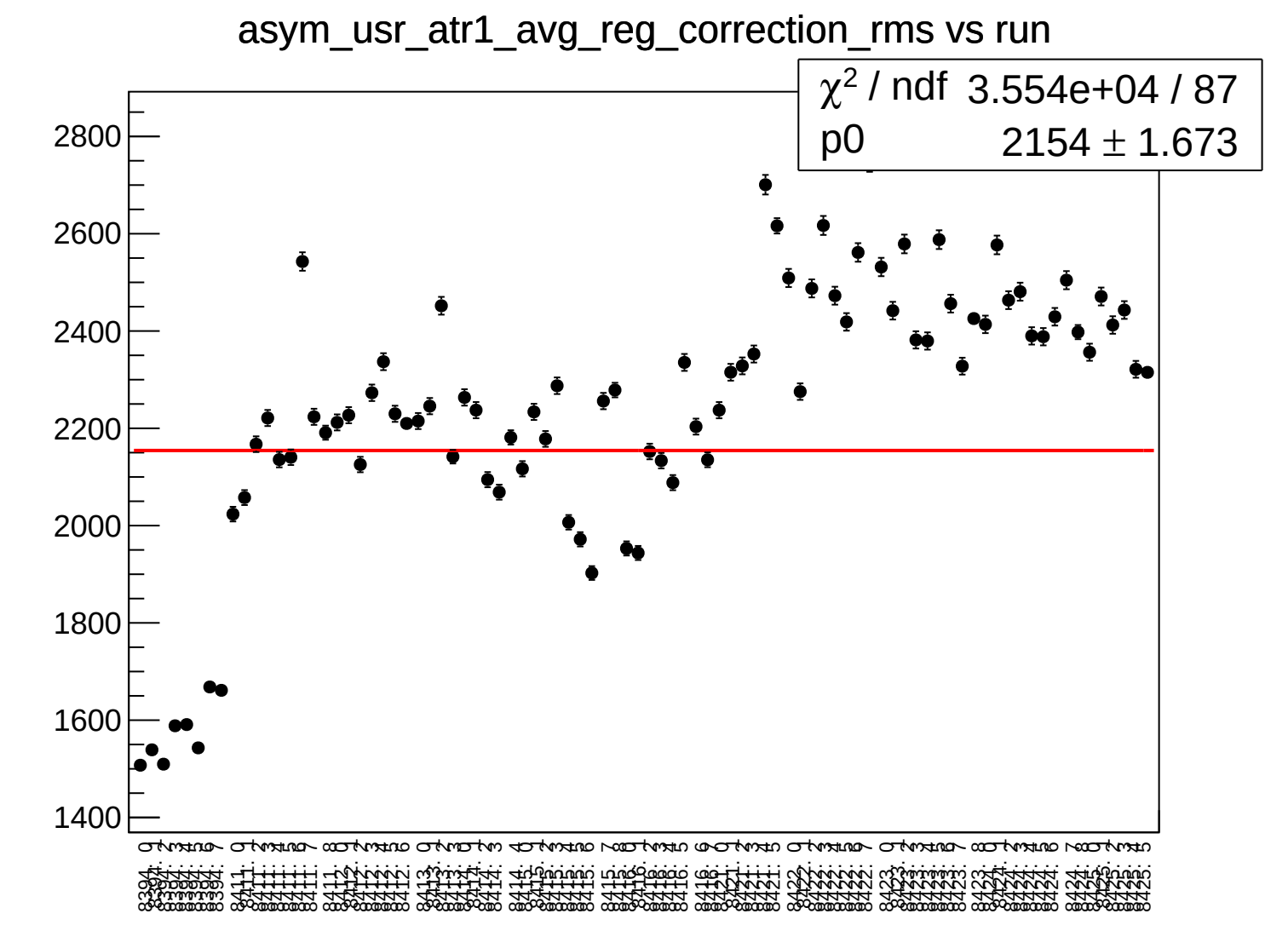

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 72.48 / 87
p0 −16.63 ± 1748
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −25.05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

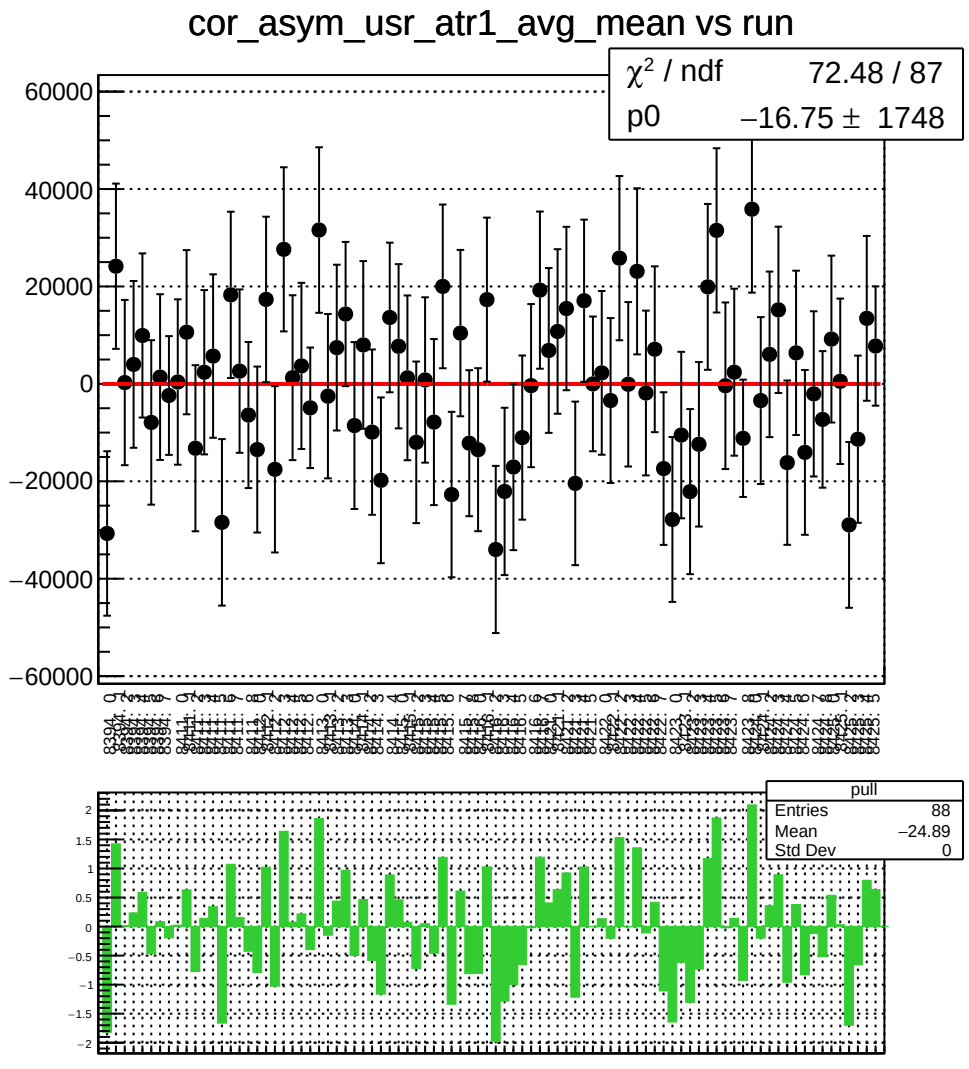

pull1D
Entries 88
Mean 0.004066
Std Dev 0.9075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

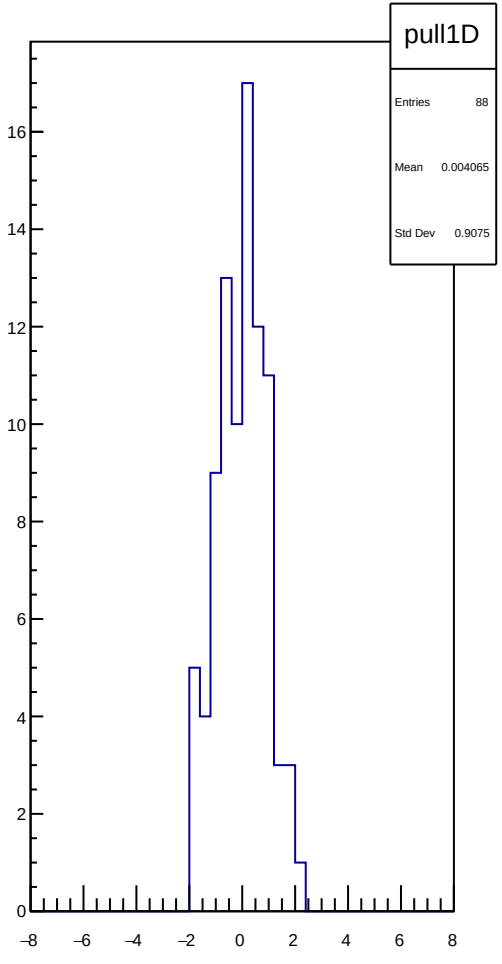

reg_asym_usr_atr1_avg_rms vs run
χ^2 / ndf 91.66 / 87
p0 1608 ± 1.236
1650
1640
1630
1620
1610
1600
1590
1580
1570
1560

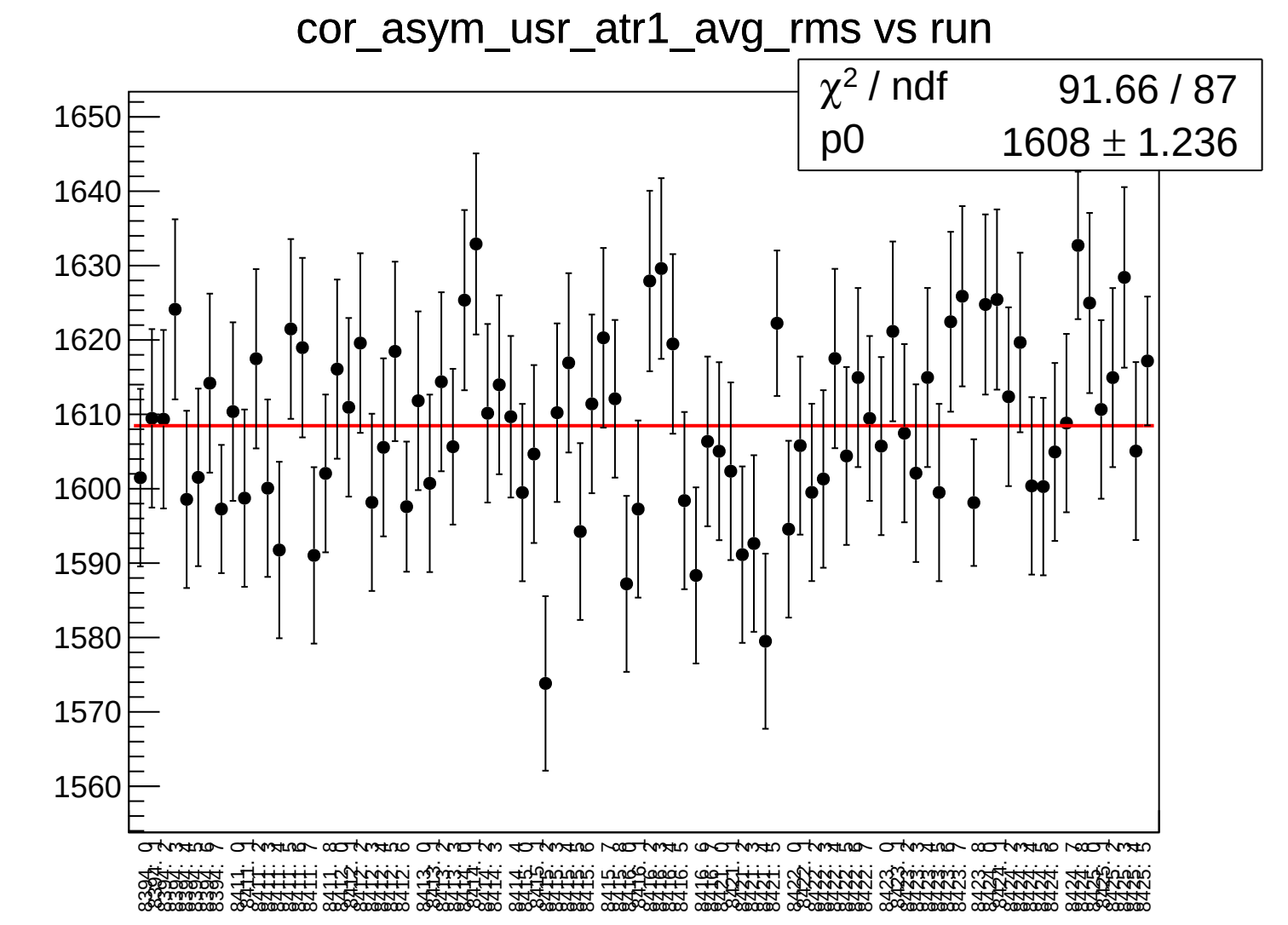

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 65.21 / 87
p0 1191 ± 2367
pull
Entries 88
Mean −51.01
Std Dev 0

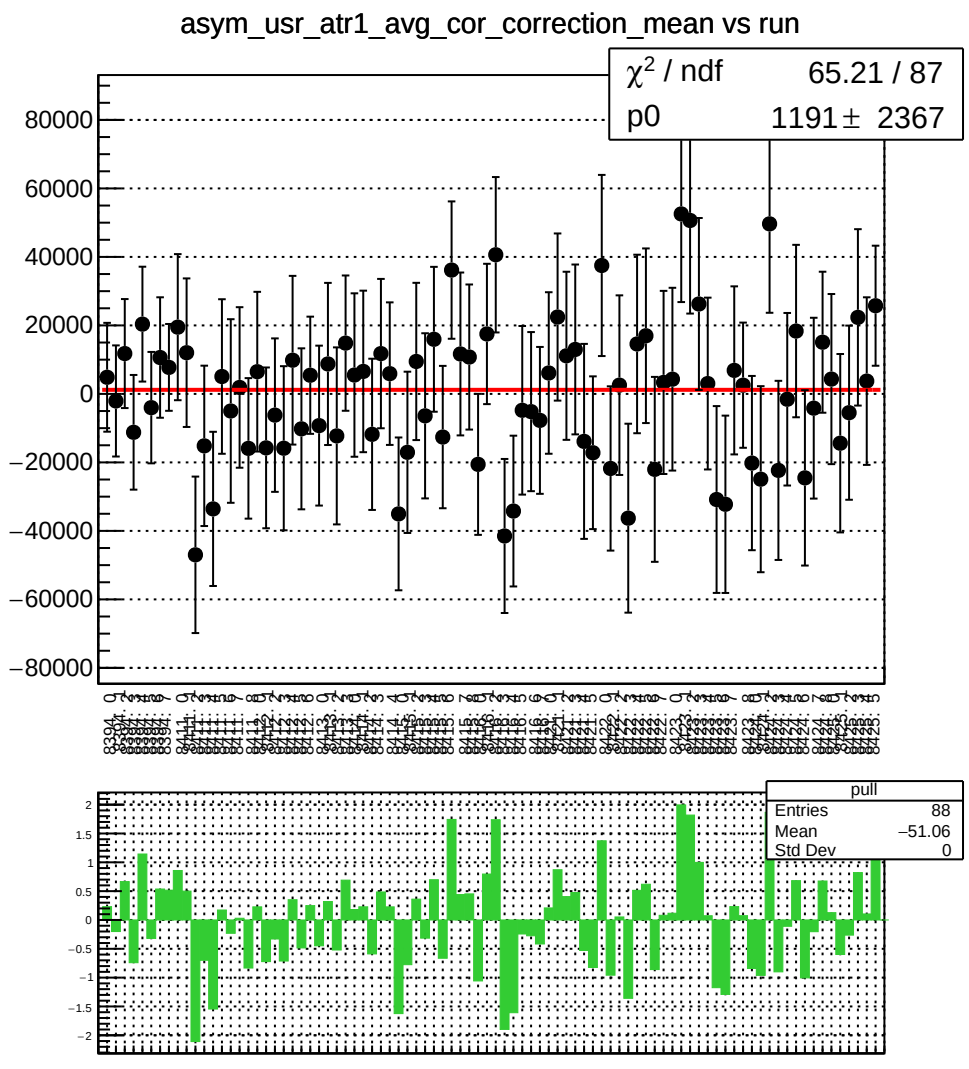

pull1D
Entries 88
Mean −0.02052
Std Dev 0.8606

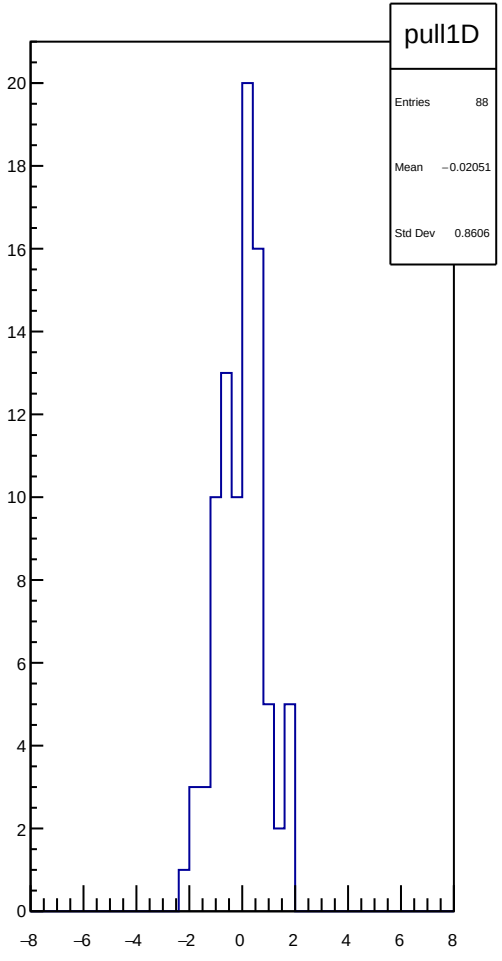

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 3.554e+04 / 87
p0 2154 ± 1.673
2800
2600
2400
2200
2000
1800
1600
1400

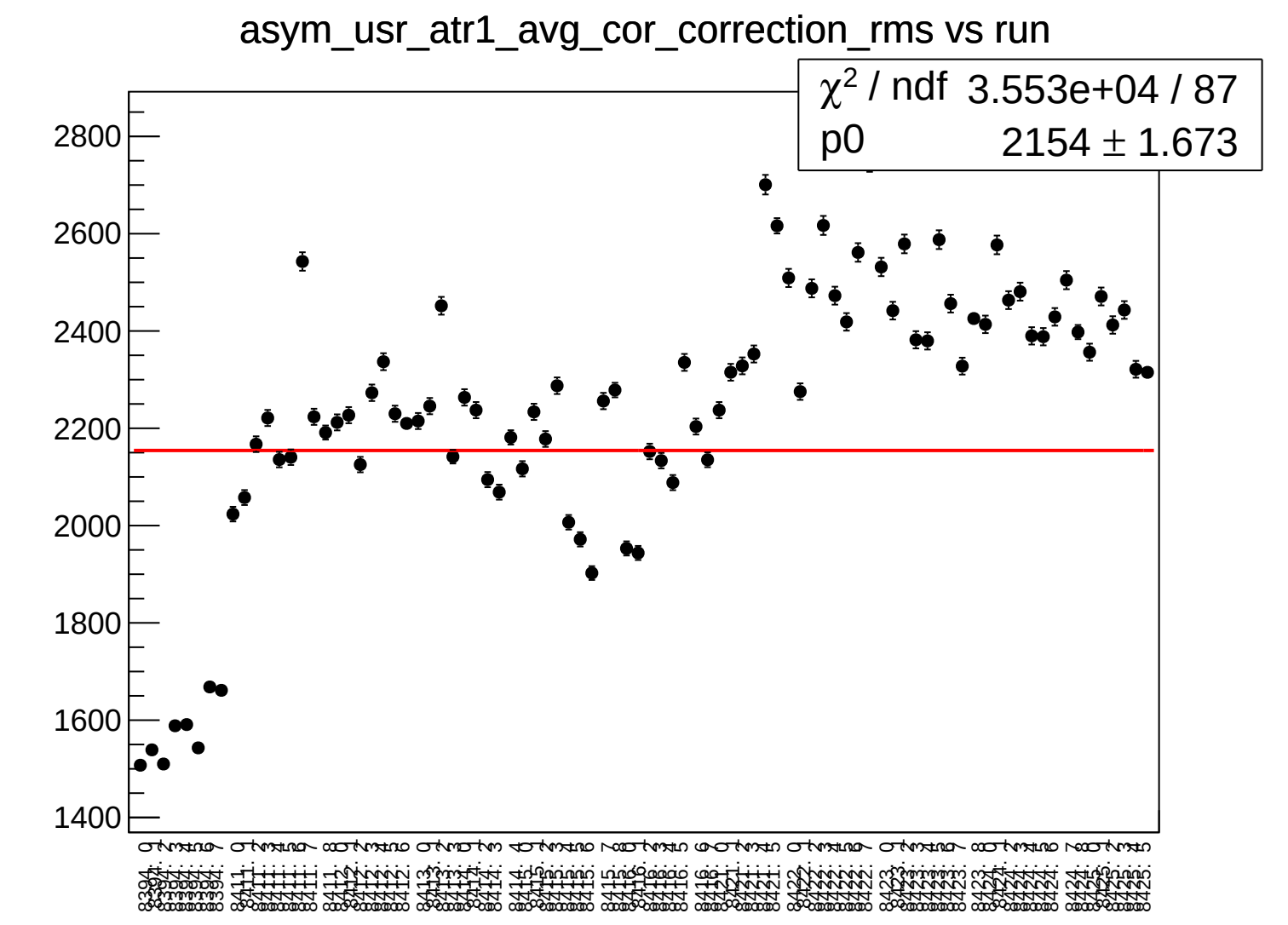

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 72.48 / 87
p0 −16.75 ± 1748
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −24.89
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

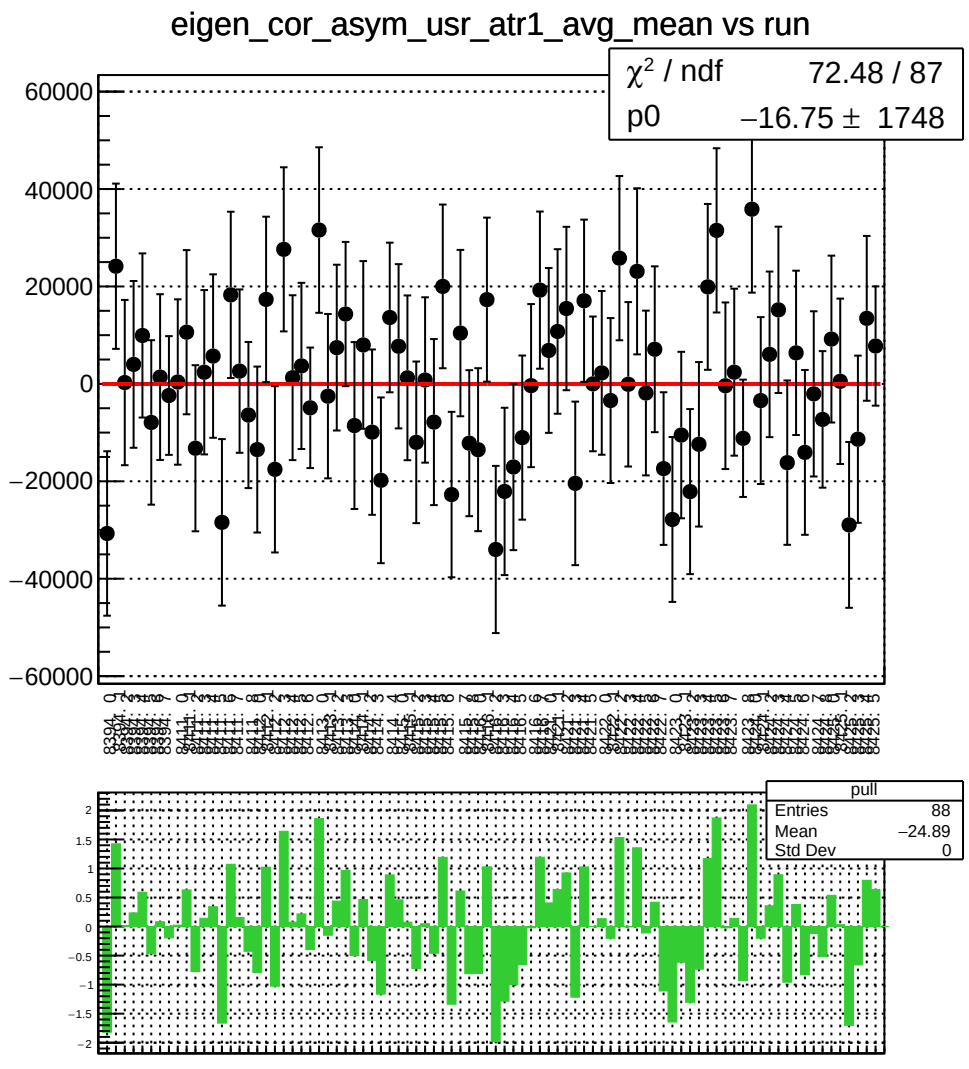

pull1D
Entries 88
Mean 0.004065
Std Dev 0.9075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

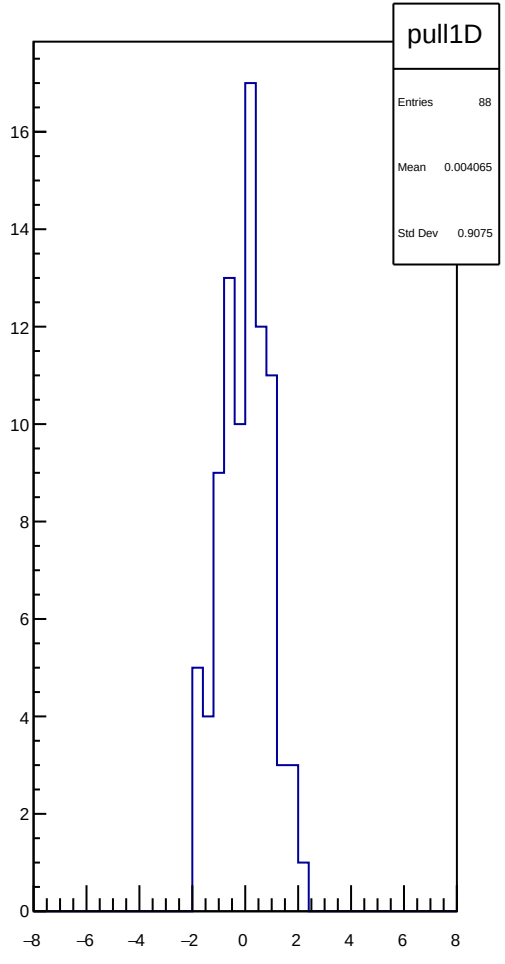

cor_asym_usr_atr1_avg_rms vs run
χ^2 / ndf 91.66 / 87
p0 1608 ± 1.236
1650
1640
1630
1620
1610
1600
1590
1580
1570
1560

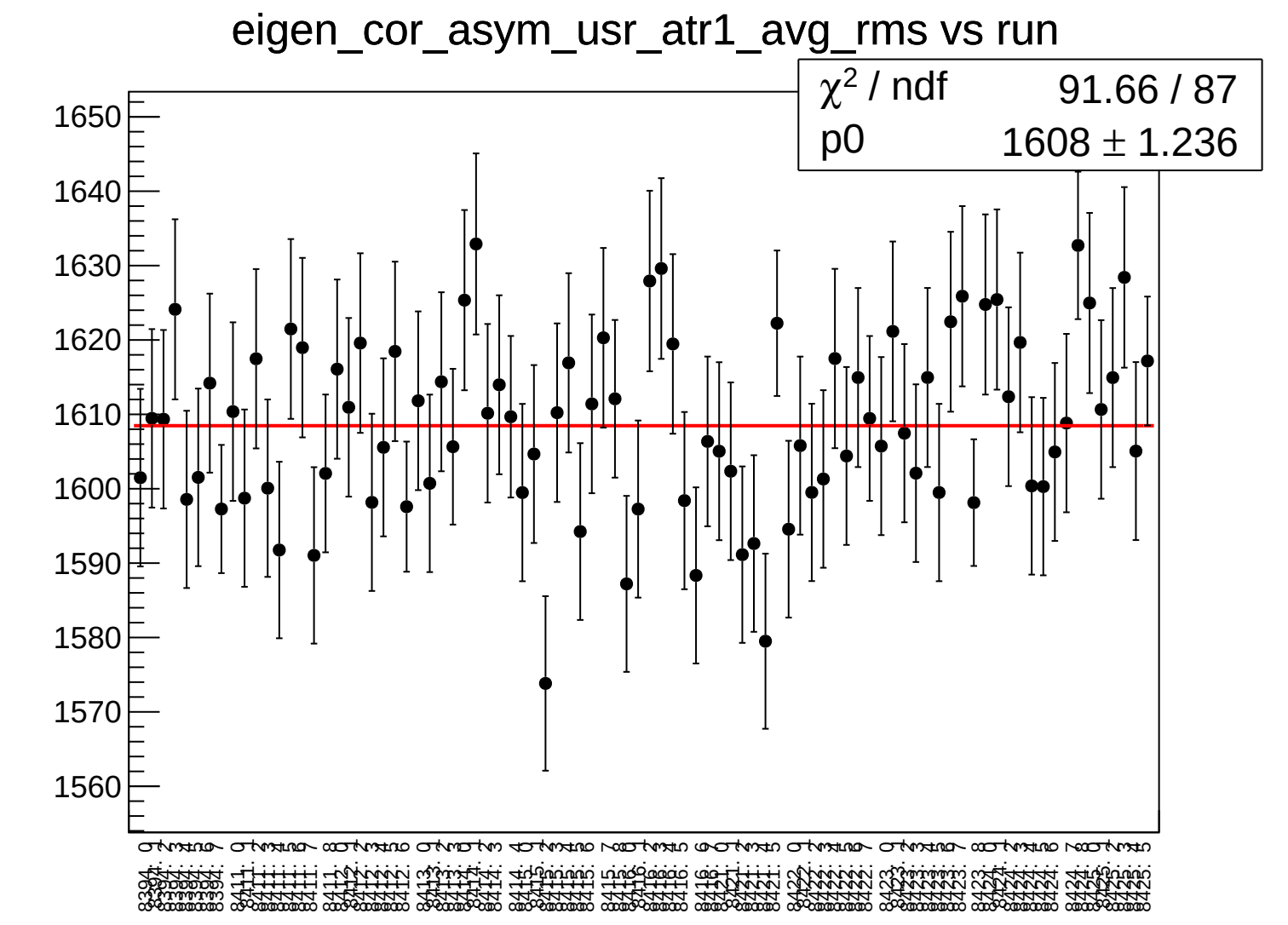

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 65.21 / 87
p0 1191 ± 2367
pull
Entries 88
Mean −51.06
Std Dev 0

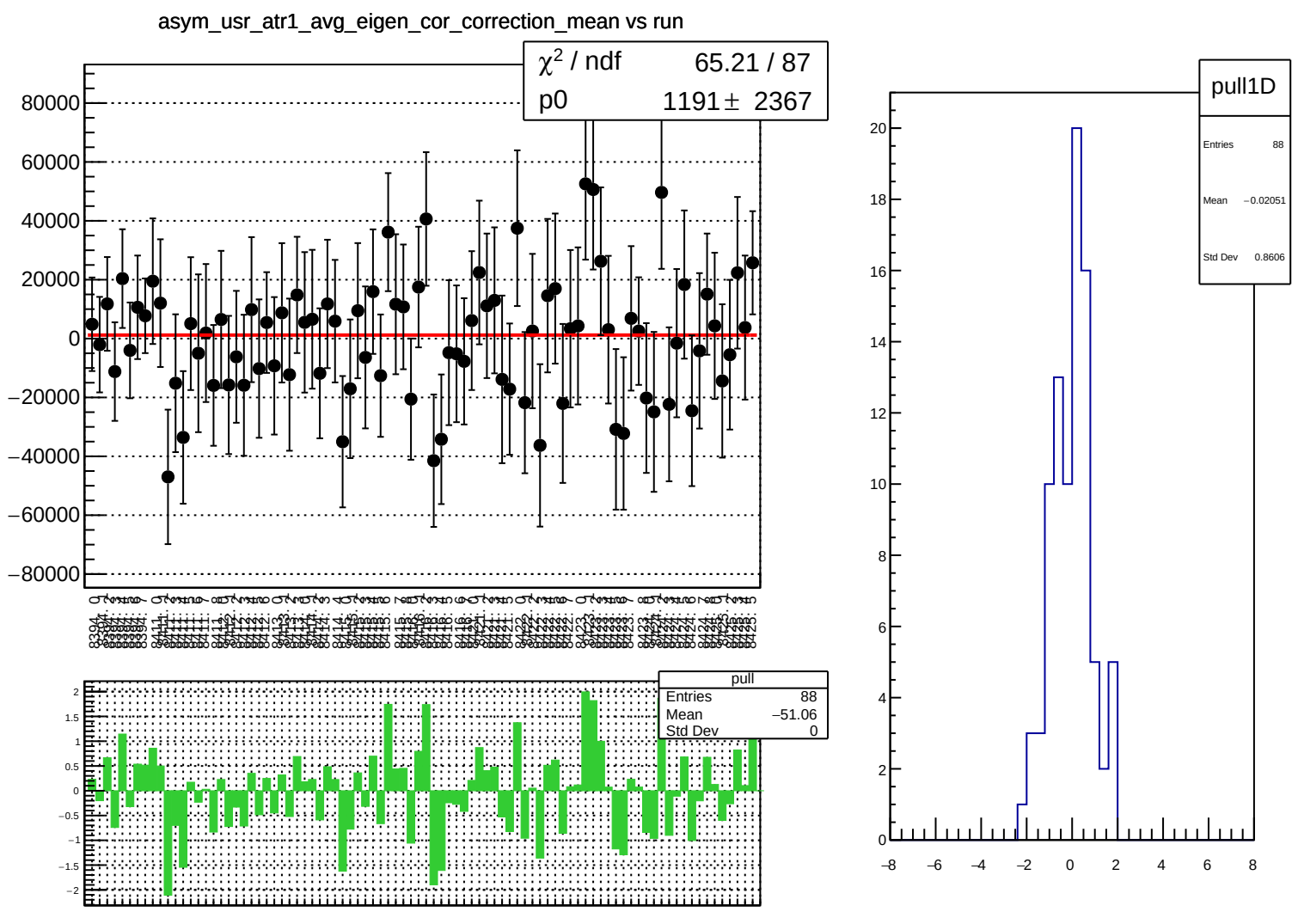

pull1D
Entries 88
Mean −0.02051
Std Dev 0.8606

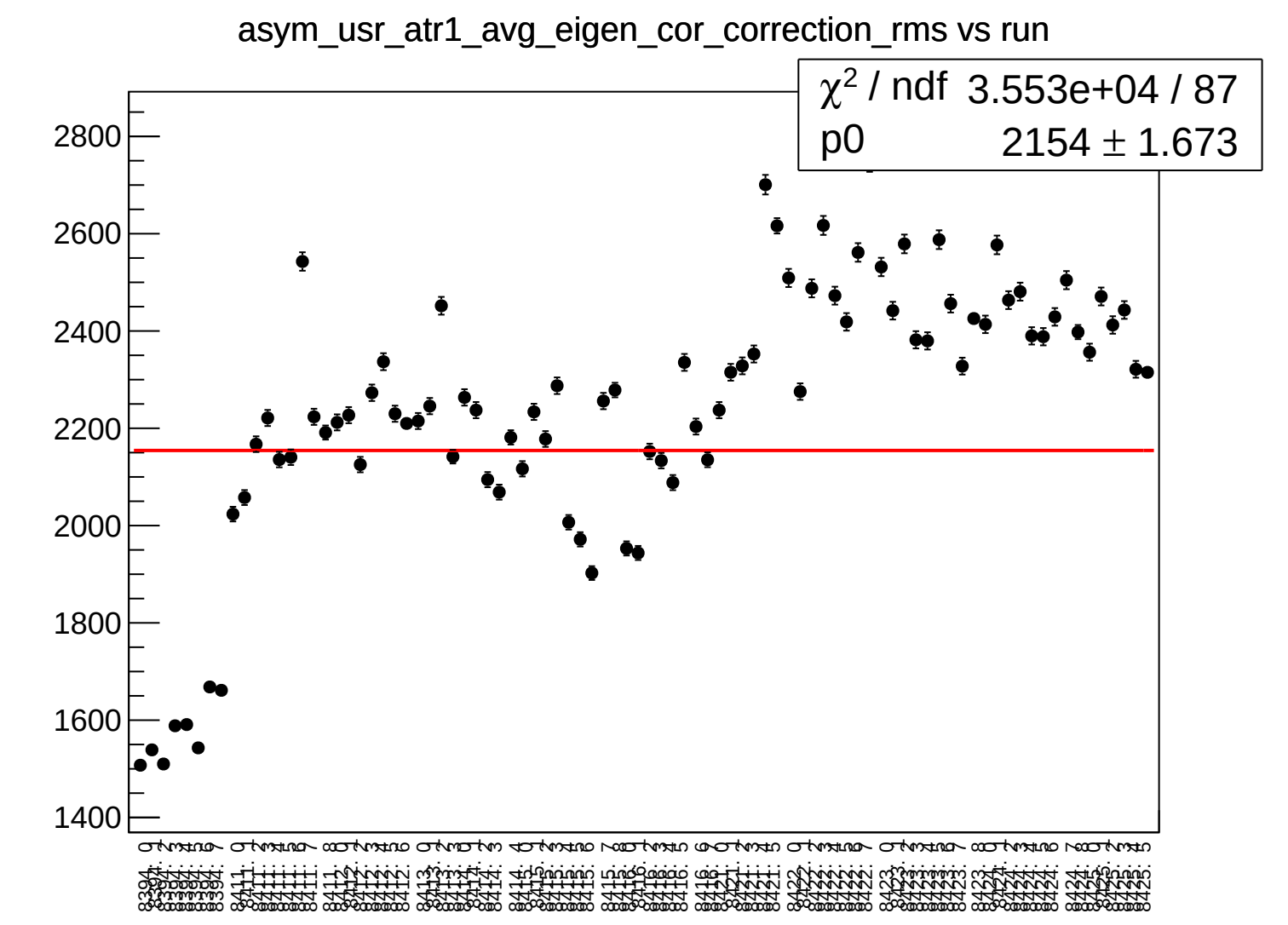

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 3.553e+04 / 87
p0 2154 ± 1.673
2800
2600
2400
2200
2000
1800
1600
1400

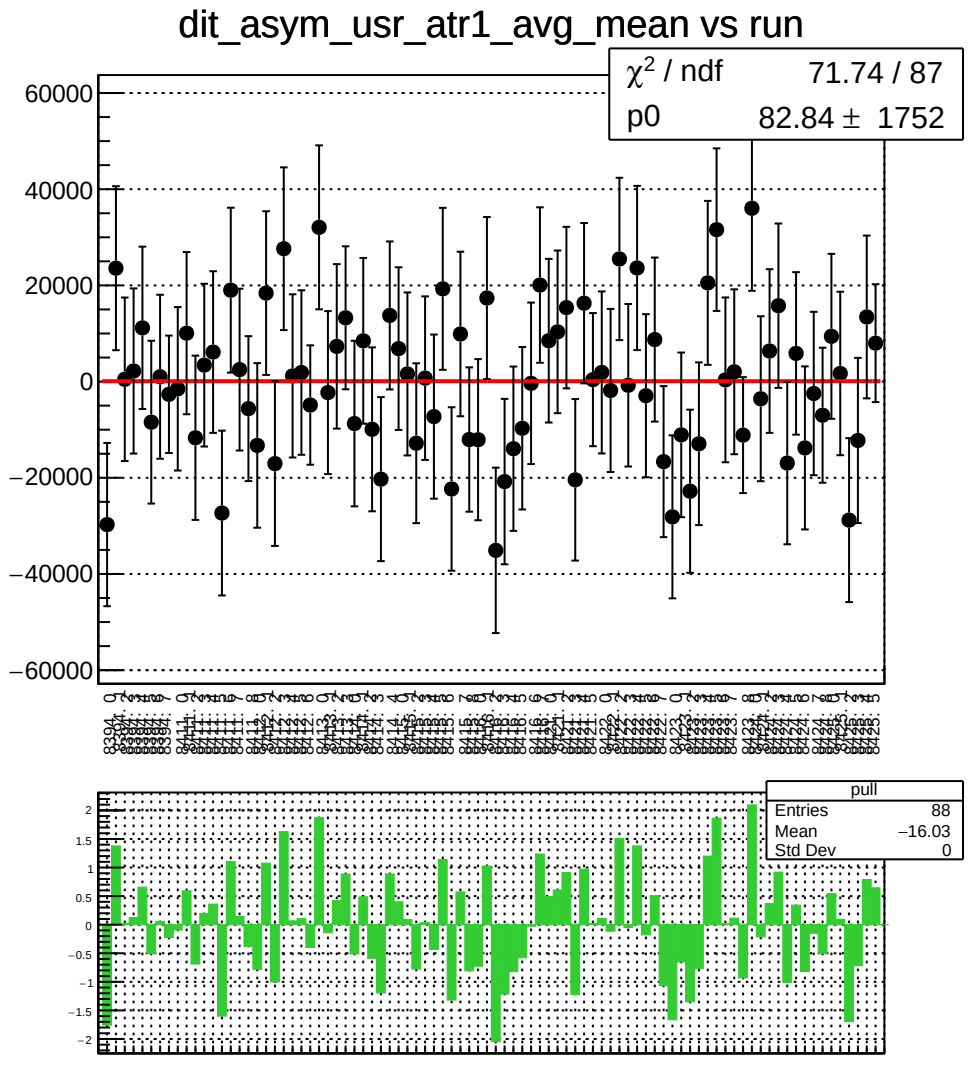

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 72.48 / 87
p0 −16.75 ± 1748
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −24.89
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

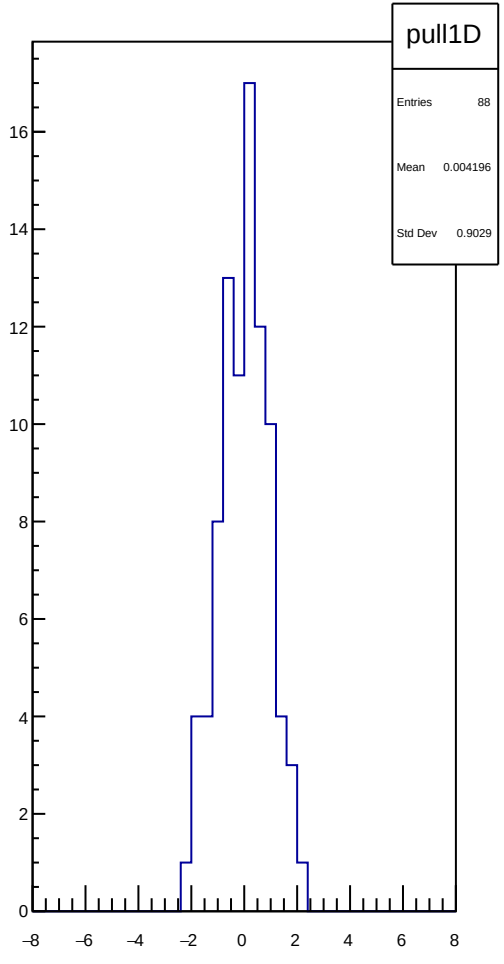

pull1D
Entries 88
Mean 0.004065
Std Dev 0.9075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

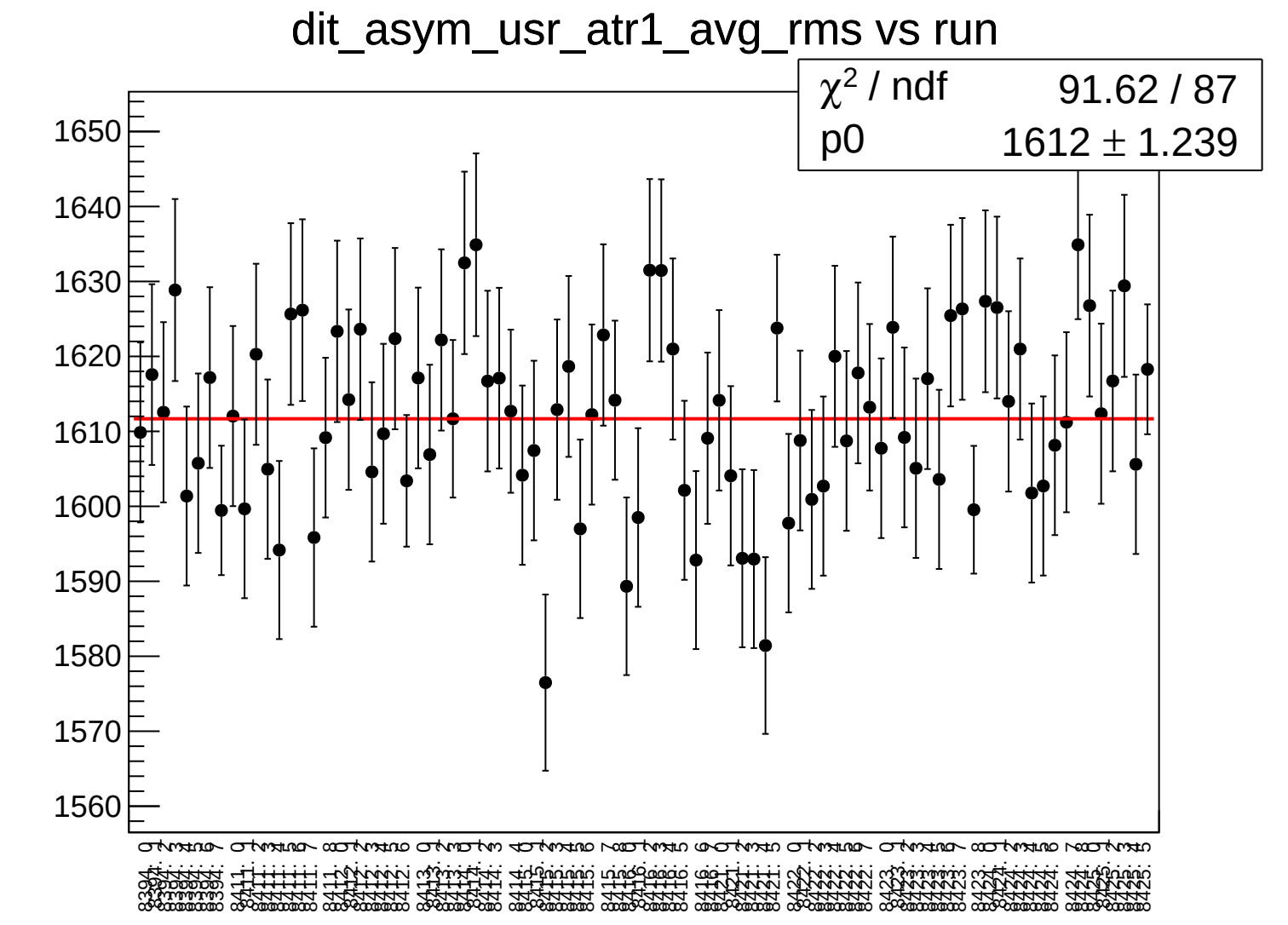

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 91.66 / 87
p0 1608 ± 1.236
1650
1640
1630
1620
1610
1600
1590
1580
1570
1560

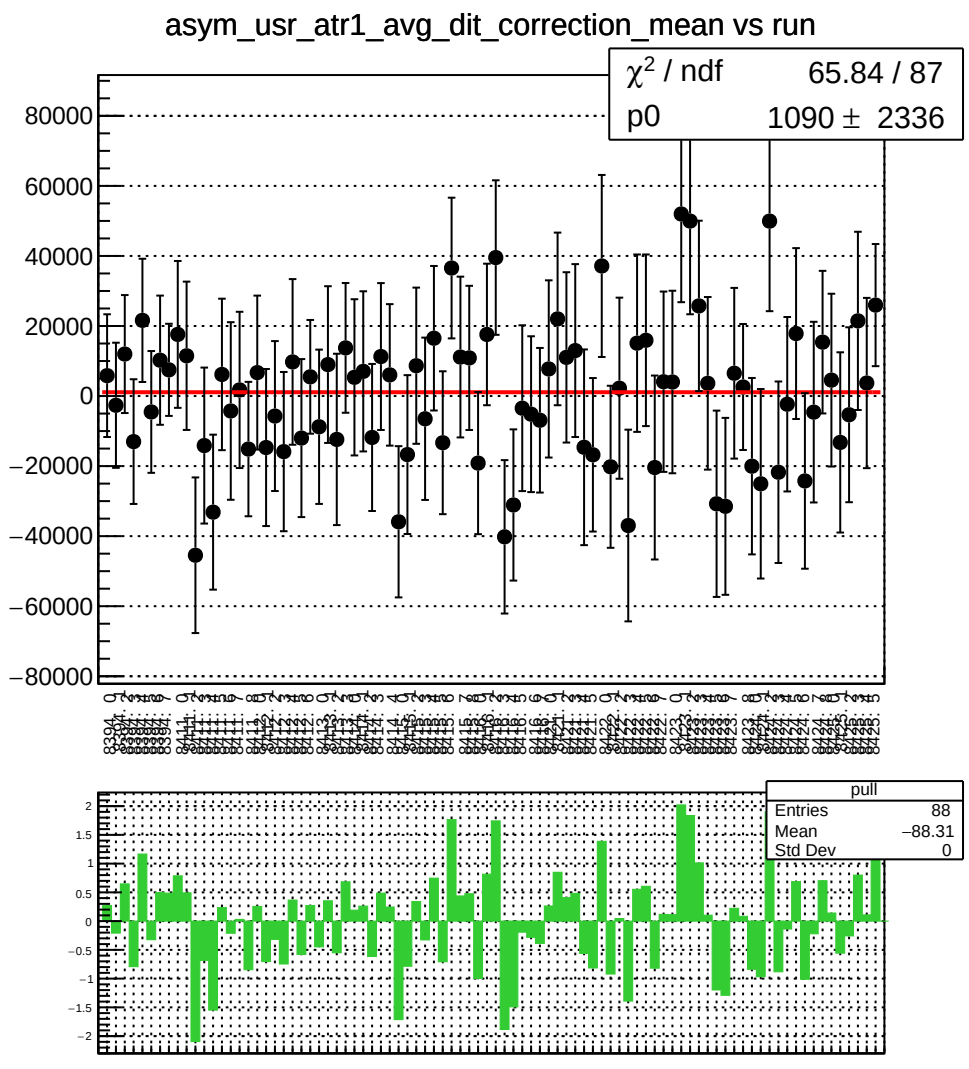

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 65.21 / 87
p0 1191 ± 2367
pull
Entries 88
Mean −51.06
Std Dev 0
pull1D
Entries 88
Mean −0.02051
Std Dev 0.8606

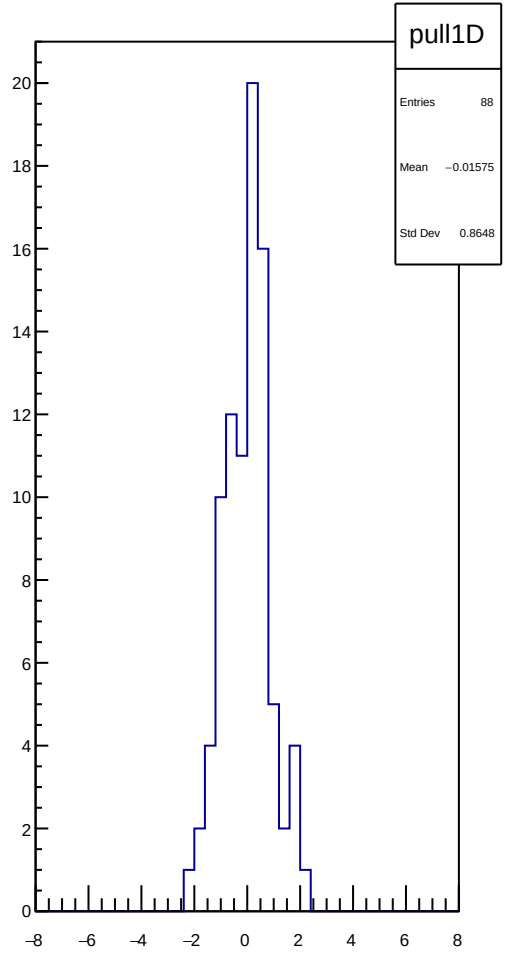

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.553e+04 / 87
p0 2154 ± 1.673
2800
2600
2400
2200
2000
1800
1600
1400

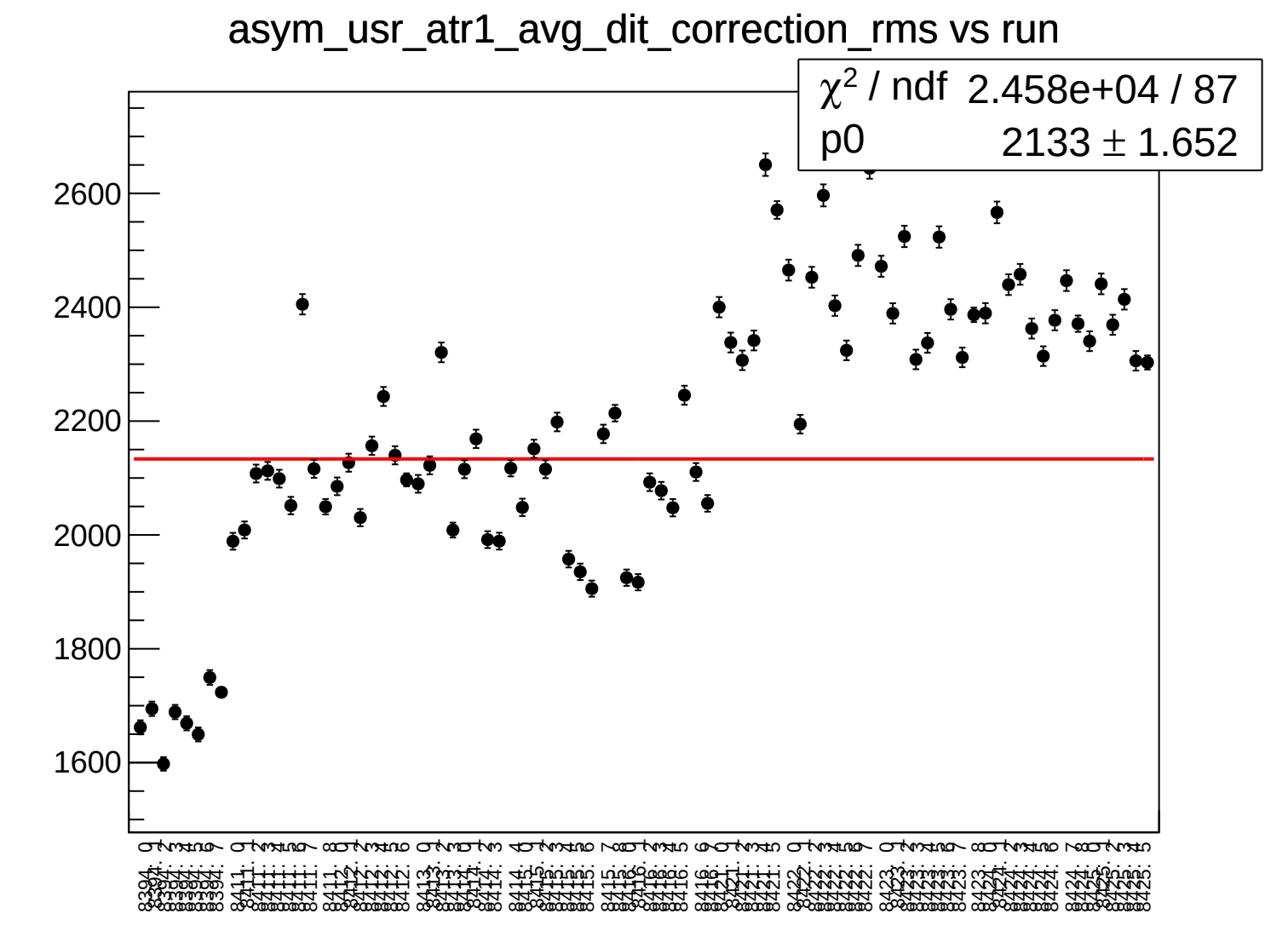

dit_asym_usr_atr1_avg_mean vs run
χ^2 / ndf 71.74 / 87
p0 82.84 ± 1752
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −16.03
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

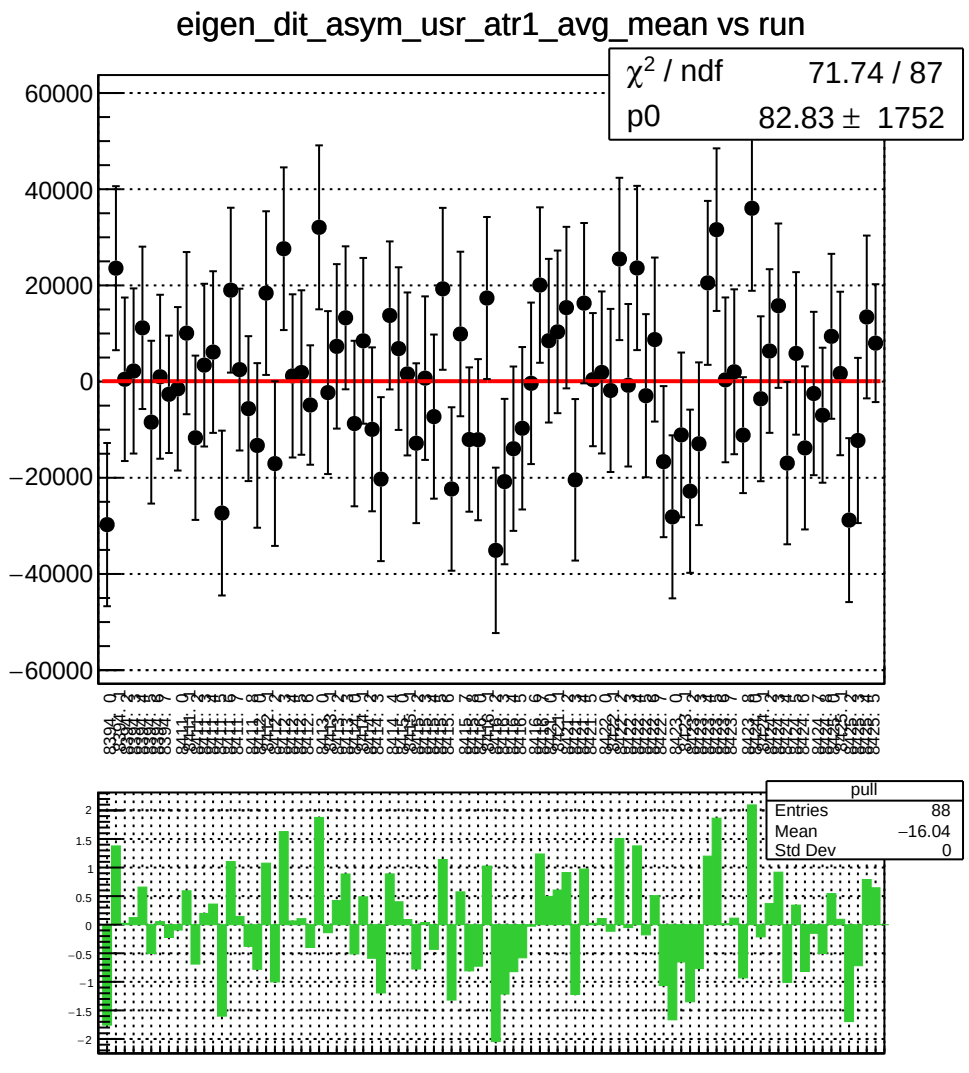

pull1D
Entries 88
Mean 0.004196
Std Dev 0.9029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

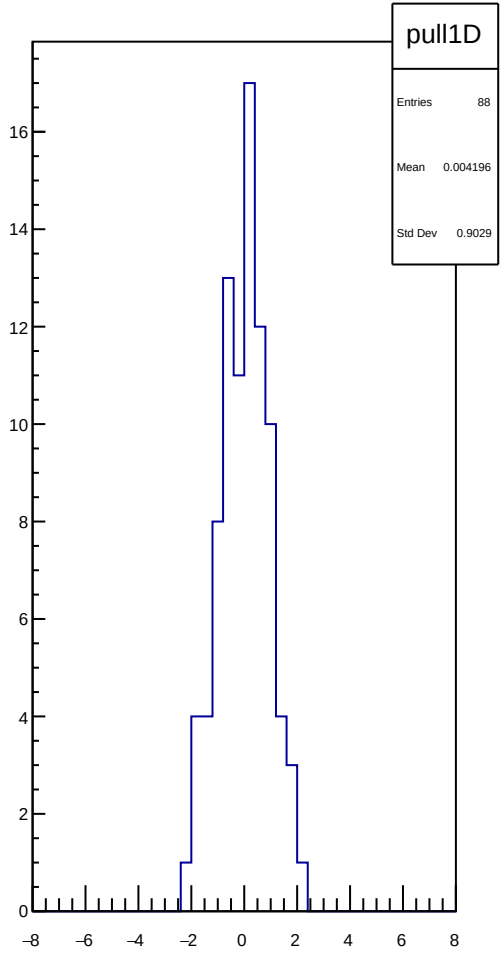

dit_asym_usr_atr1_avg_rms vs run
χ^2 / ndf 91.62 / 87
p0 1612 ± 1.239
1650
1640
1630
1620
1610
1600
1590
1580
1570
1560

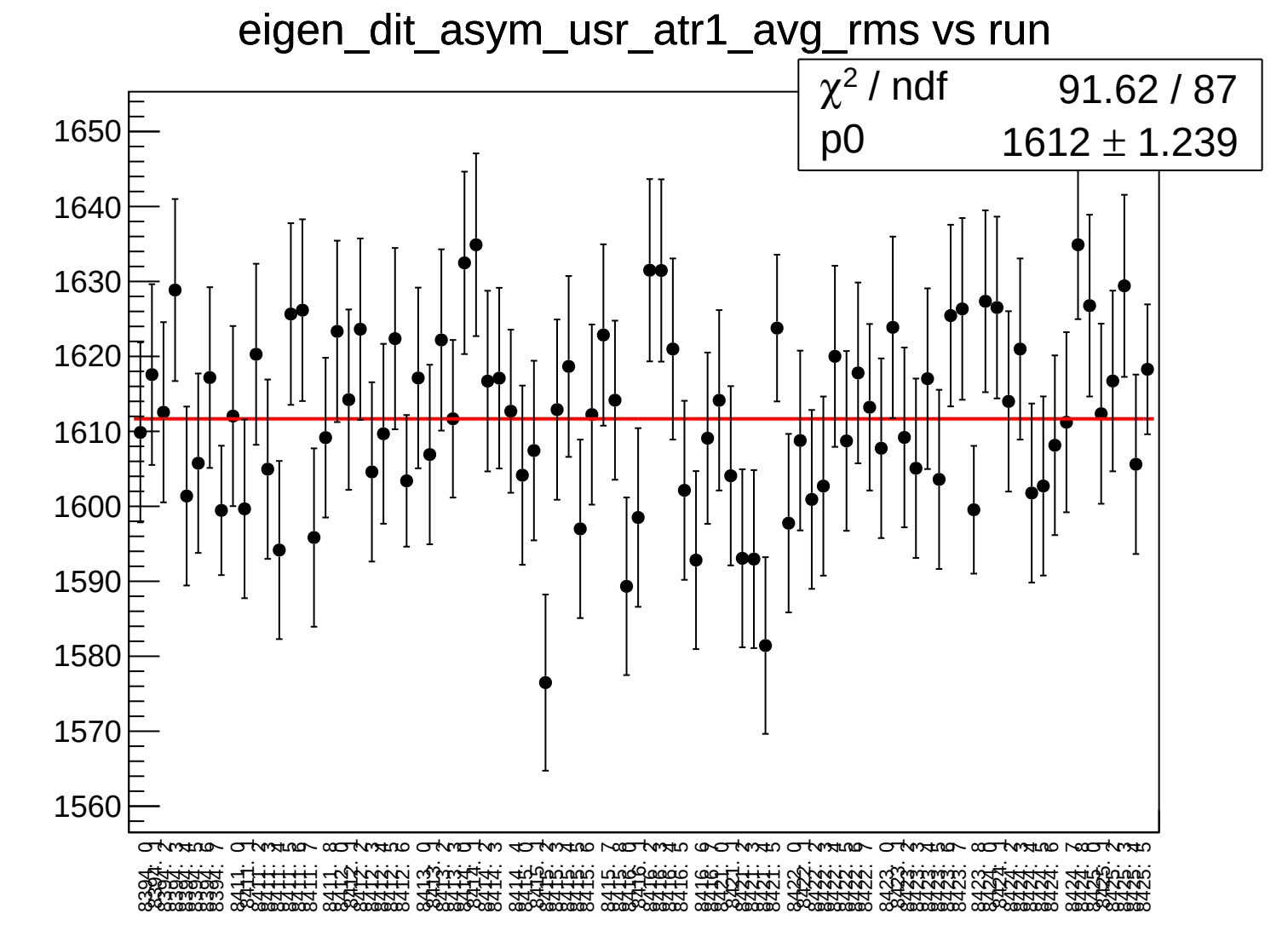

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 65.84 / 87
p0 1090 ± 2336
pull
Entries 88
Mean −88.31
Std Dev 0

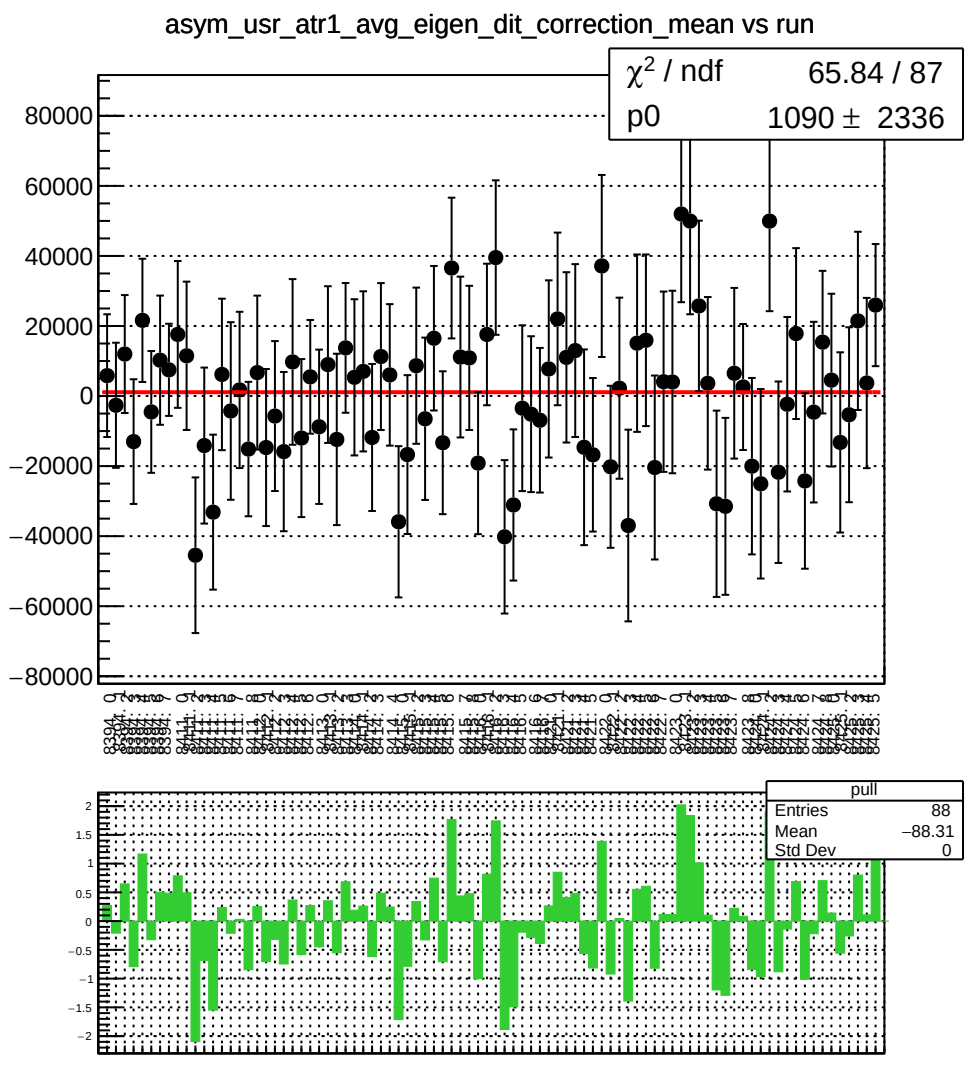

pull1D
Entries 88
Mean −0.01575
Std Dev 0.8648

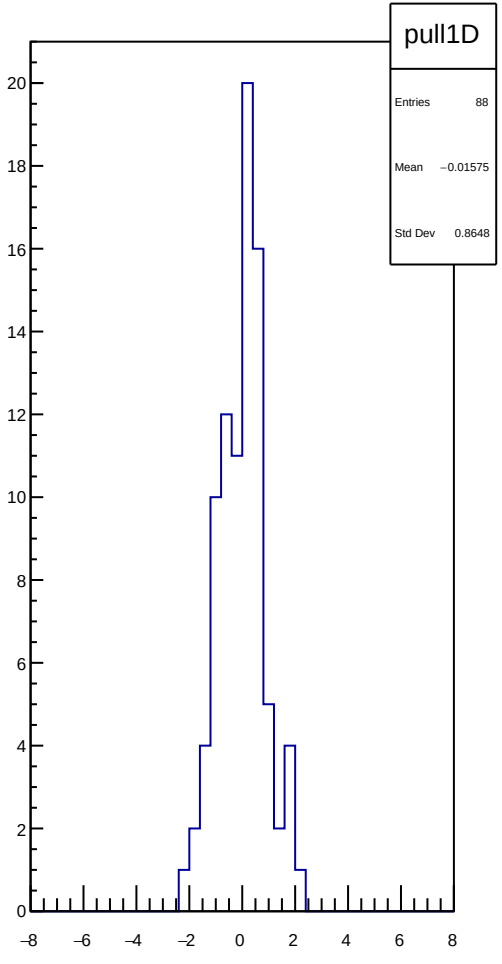

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 2.458e+04 / 87
p0 2133 ± 1.652
2600
2400
2200
2000
1800
1600

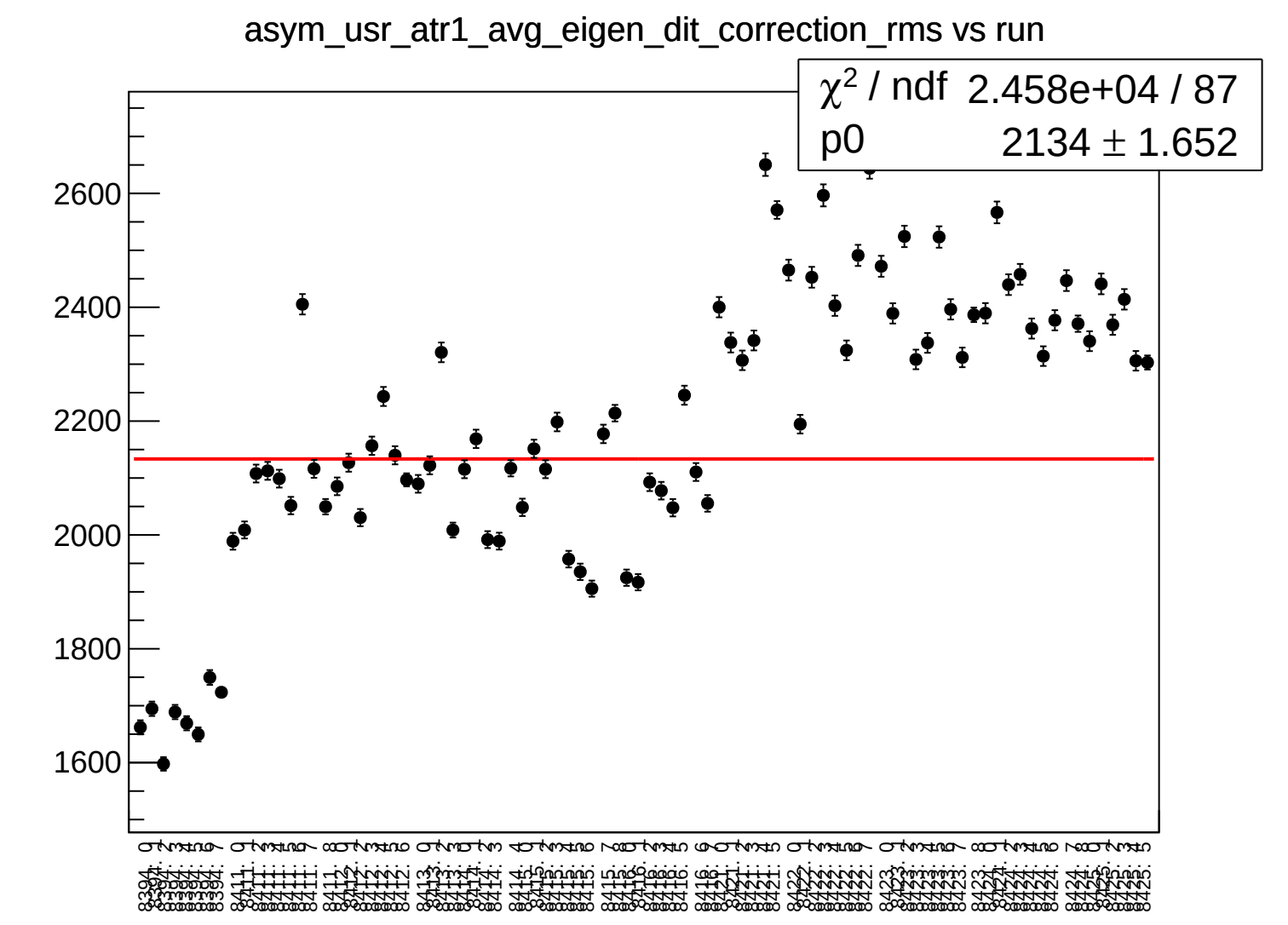

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 71.74 / 87
p0 82.83 ± 1752
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −16.04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

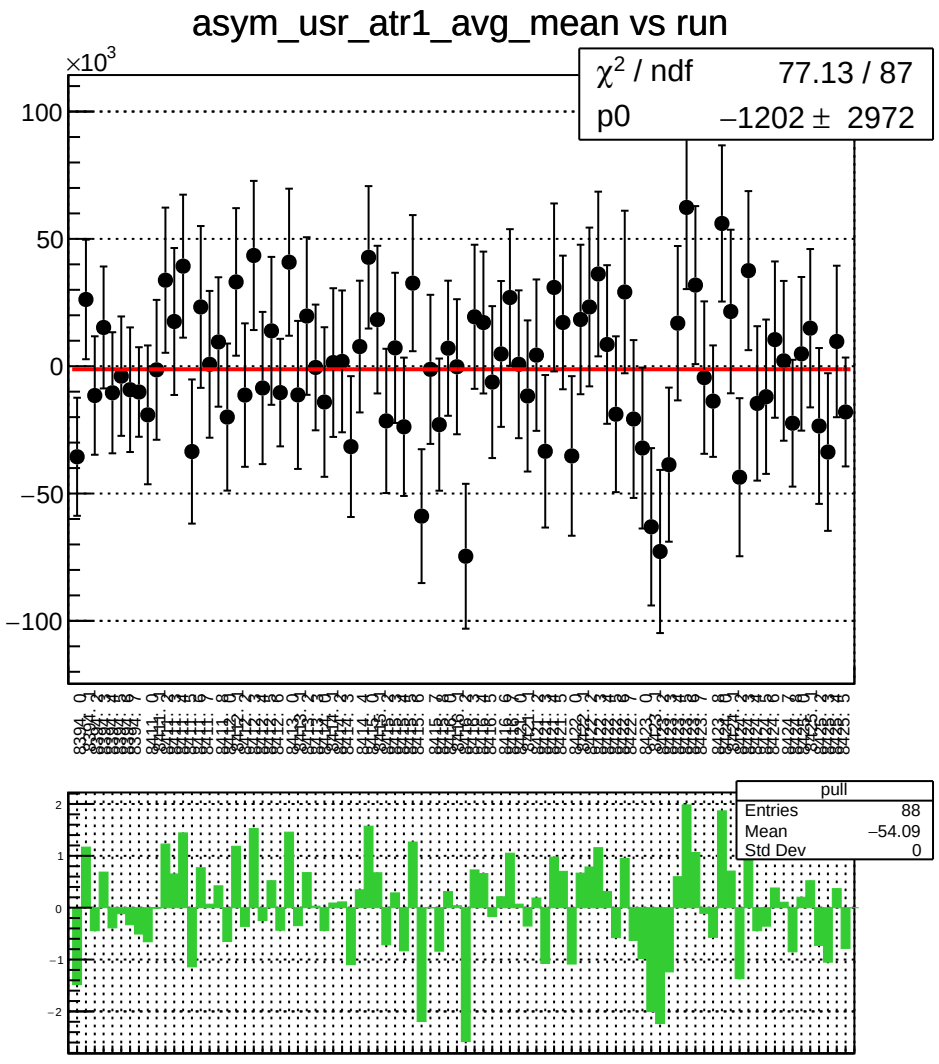

pull1D
Entries 88
Mean 0.004196
Std Dev 0.9029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

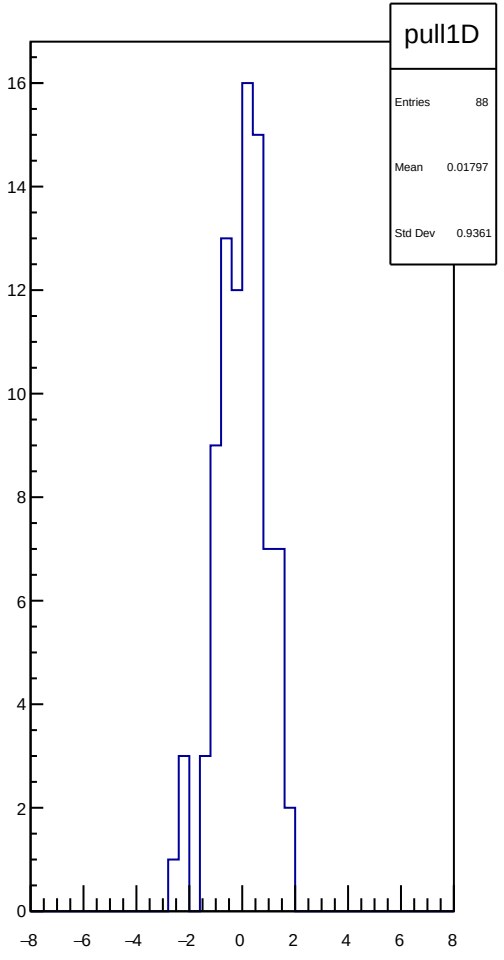

eigen_dit_asym_usr_atr1_avg_rms vs run
χ^2 / ndf 91.62 / 87
p0 1612 ± 1.239
1650
1640
1630
1620
1610
1600
1590
1580
1570
1560

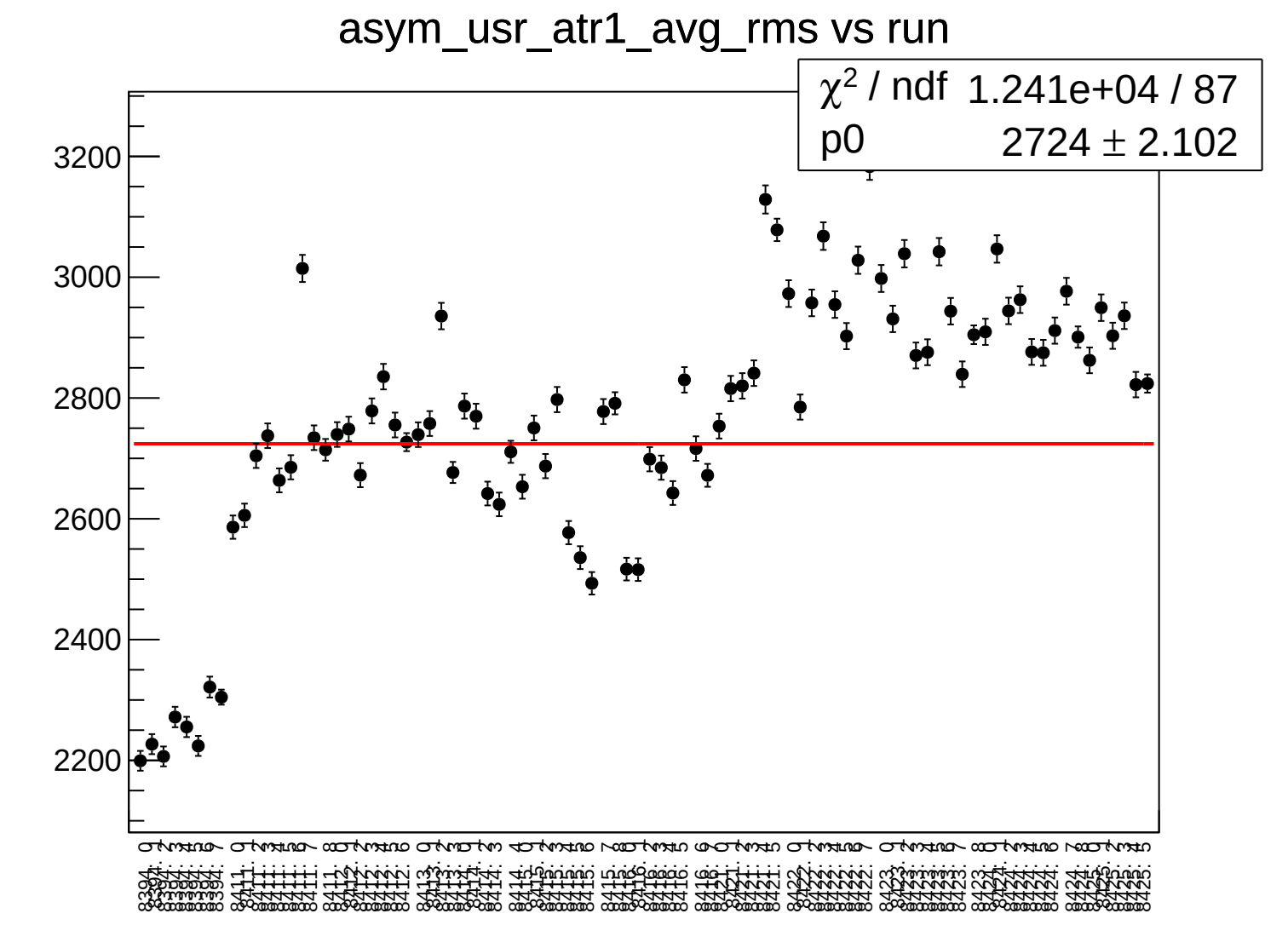

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 65.84 / 87
p0 1090 ± 2336
pull
Entries 88
Mean −88.31
Std Dev 0

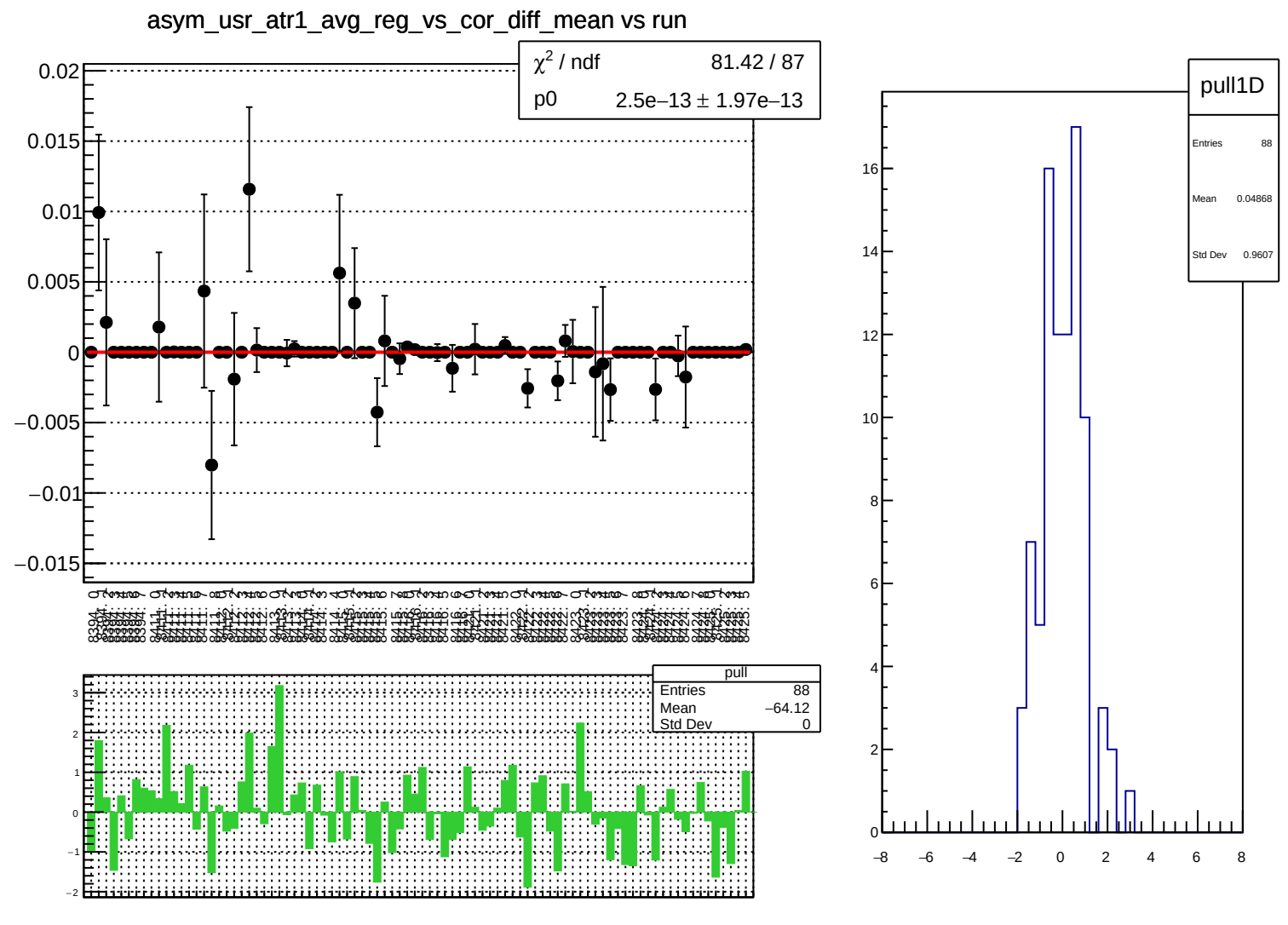

pull1D
Entries 88
Mean −0.01575
Std Dev 0.8648

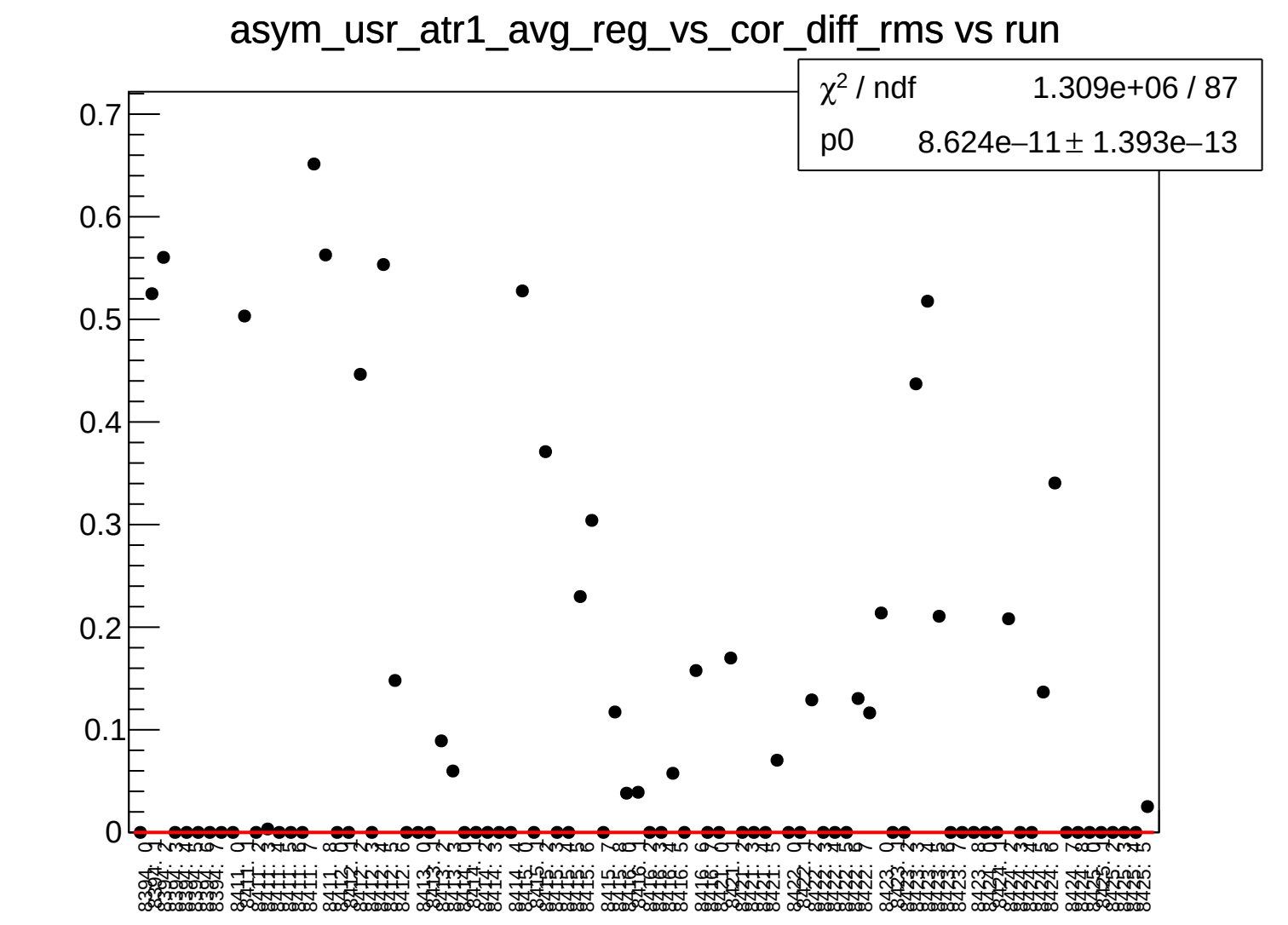

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.458e+04 / 87
p0 2134 ± 1.652
2600
2400
2200
2000
1800
1600

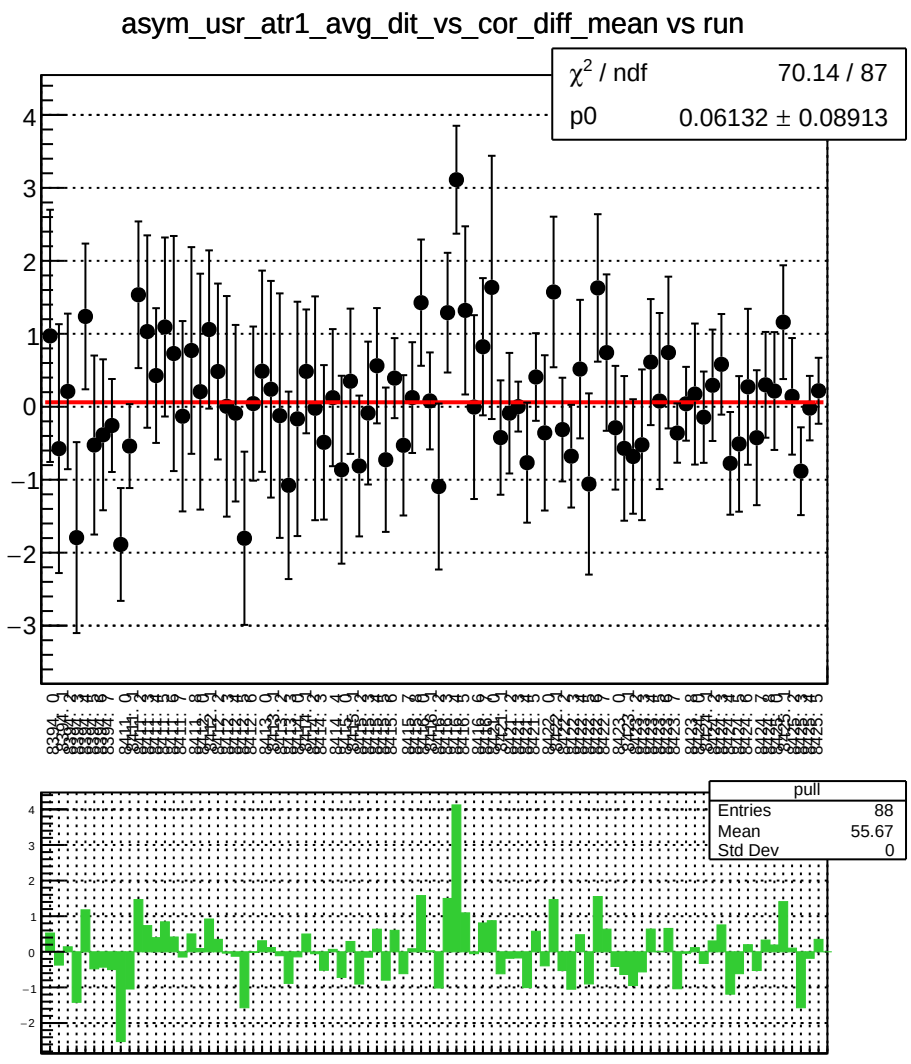

asym_usr_atr1_avg_mean vs run
×10^3
χ² / ndf 77.13 / 87
p0 −1202 ± 2972
100
50
0
−50
−100
pull
Entries 88
Mean −54.09
Std Dev 0
2
1
0
−1
−2

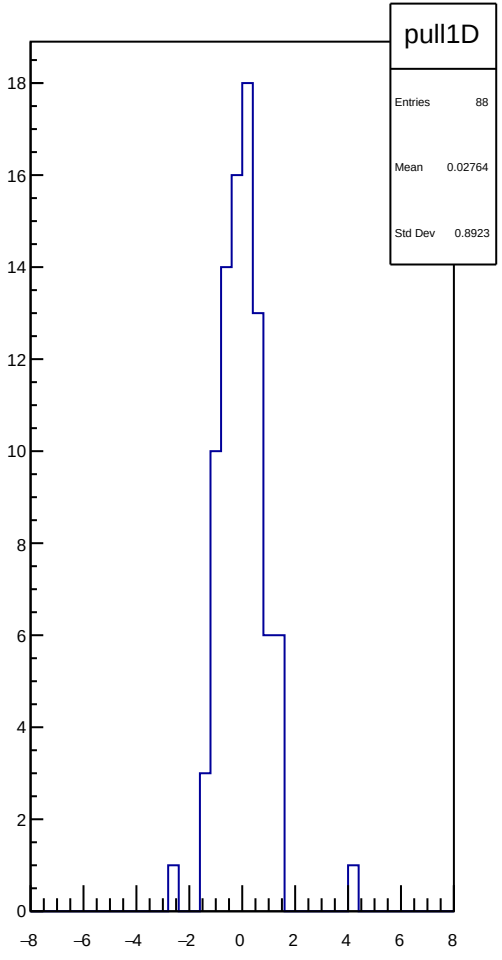

pull1D
Entries 88
Mean 0.01797
Std Dev 0.9361
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

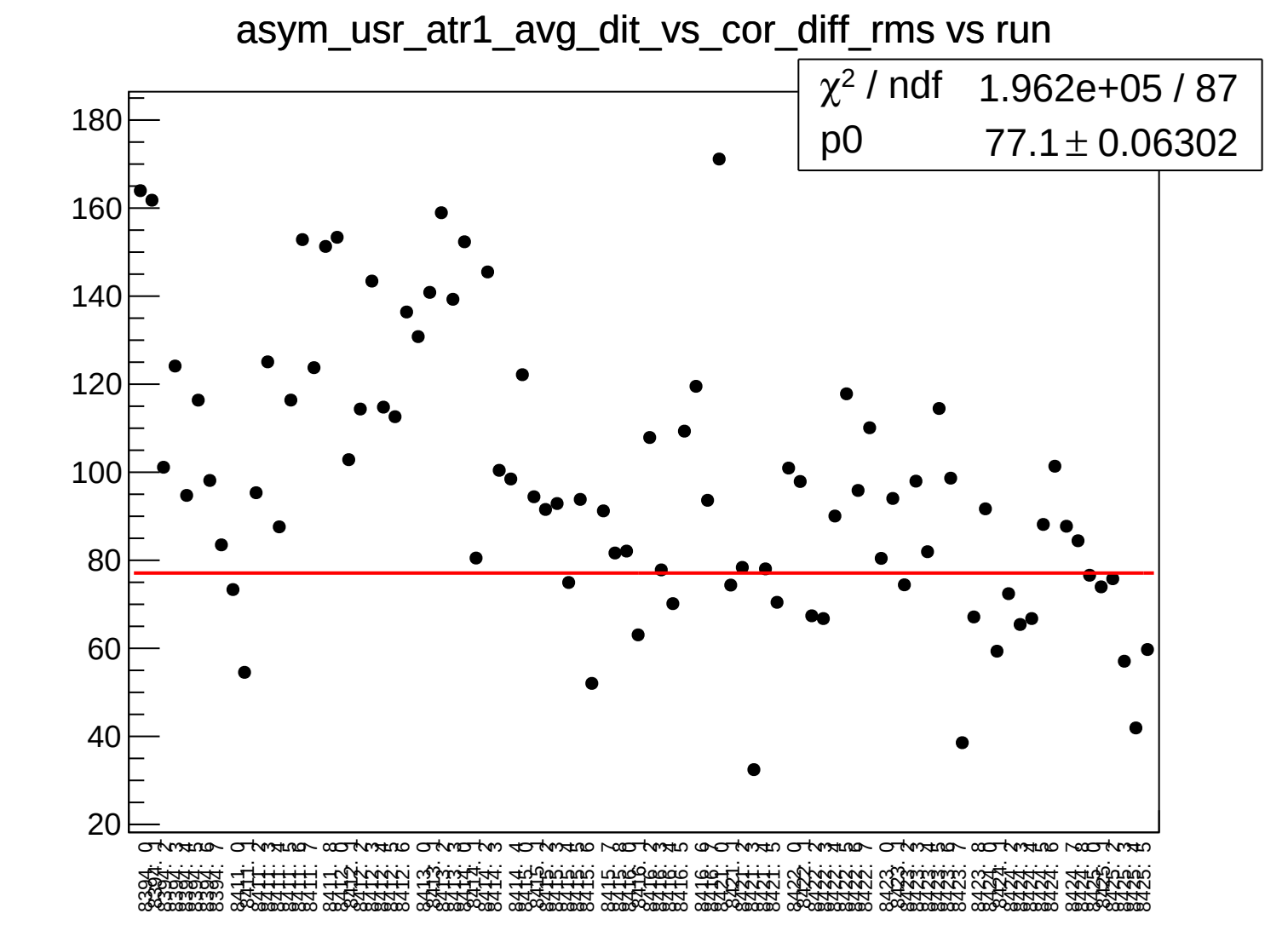

asym_usr_atr1_avg_rms vs run
χ² / ndf 1.241e+04 / 87
p0 2724 ± 2.102
3200
3000
2800
2600
2400
2200

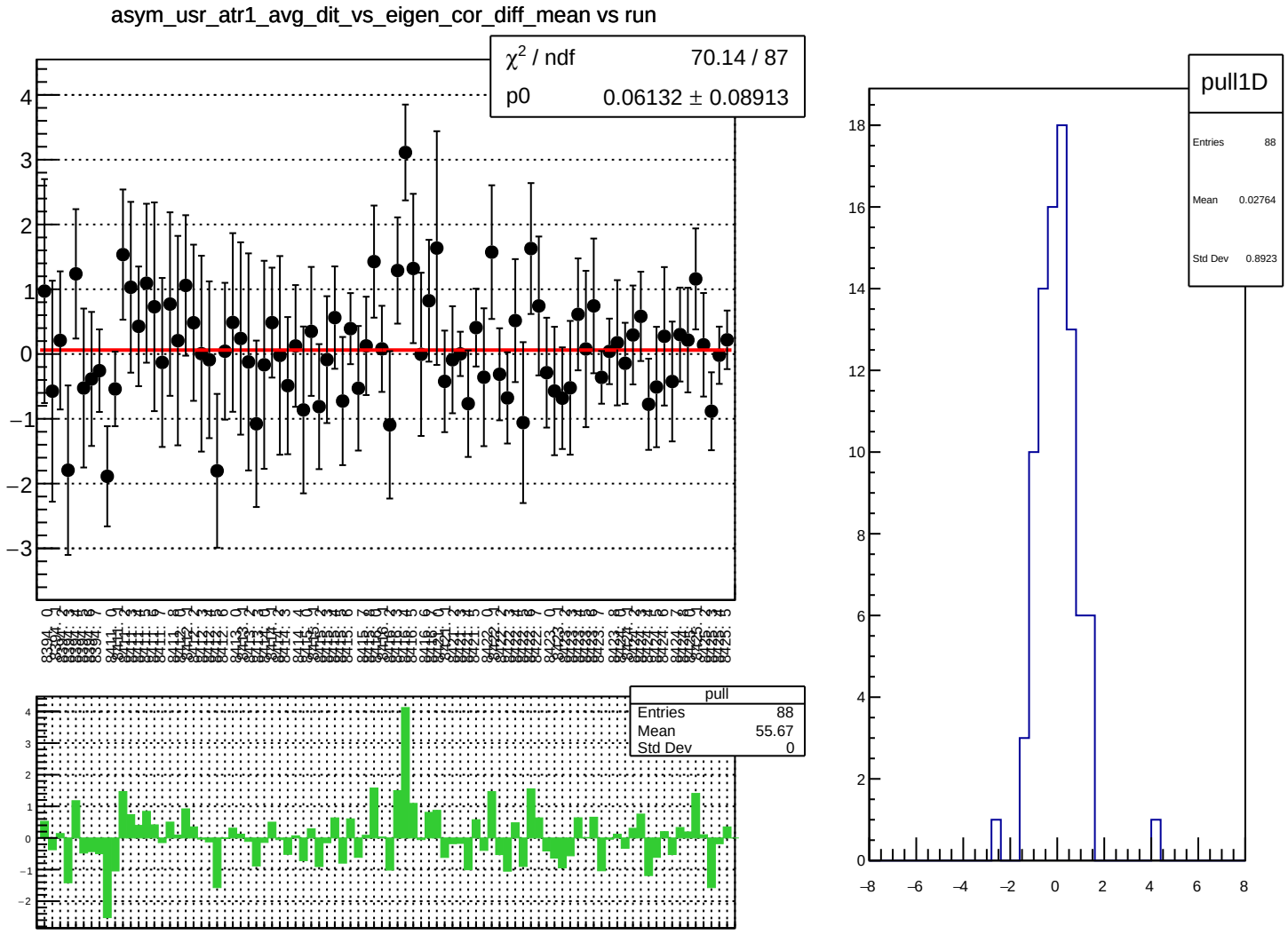

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.42 / 87
p0 2.5e−13 ± 1.97e−13
pull
Entries 88
Mean −64.12
Std Dev 0
pull1D
Entries 88
Mean 0.04868
Std Dev 0.9607

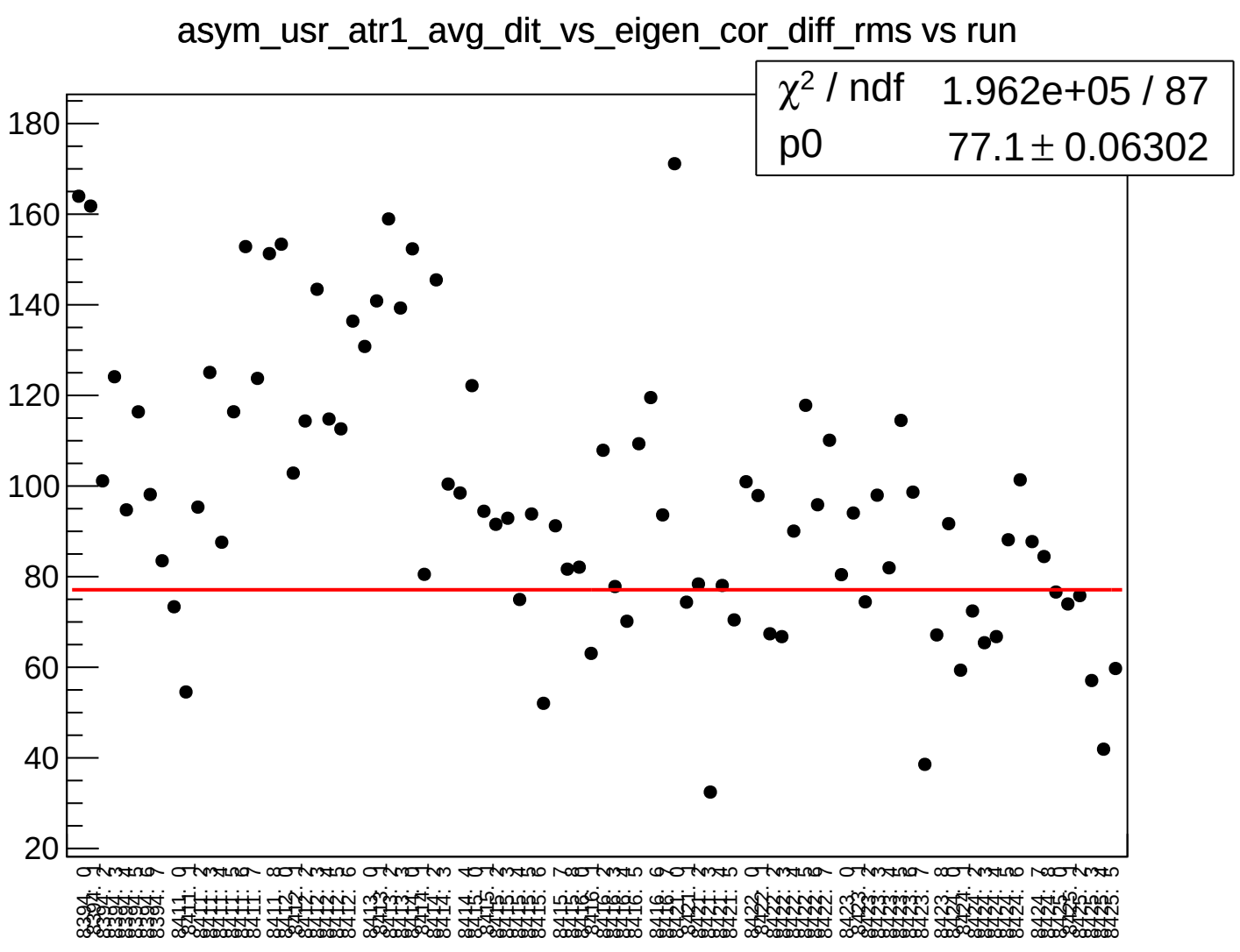

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.309e+06 / 87
p0 8.624e−11 ± 1.393e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

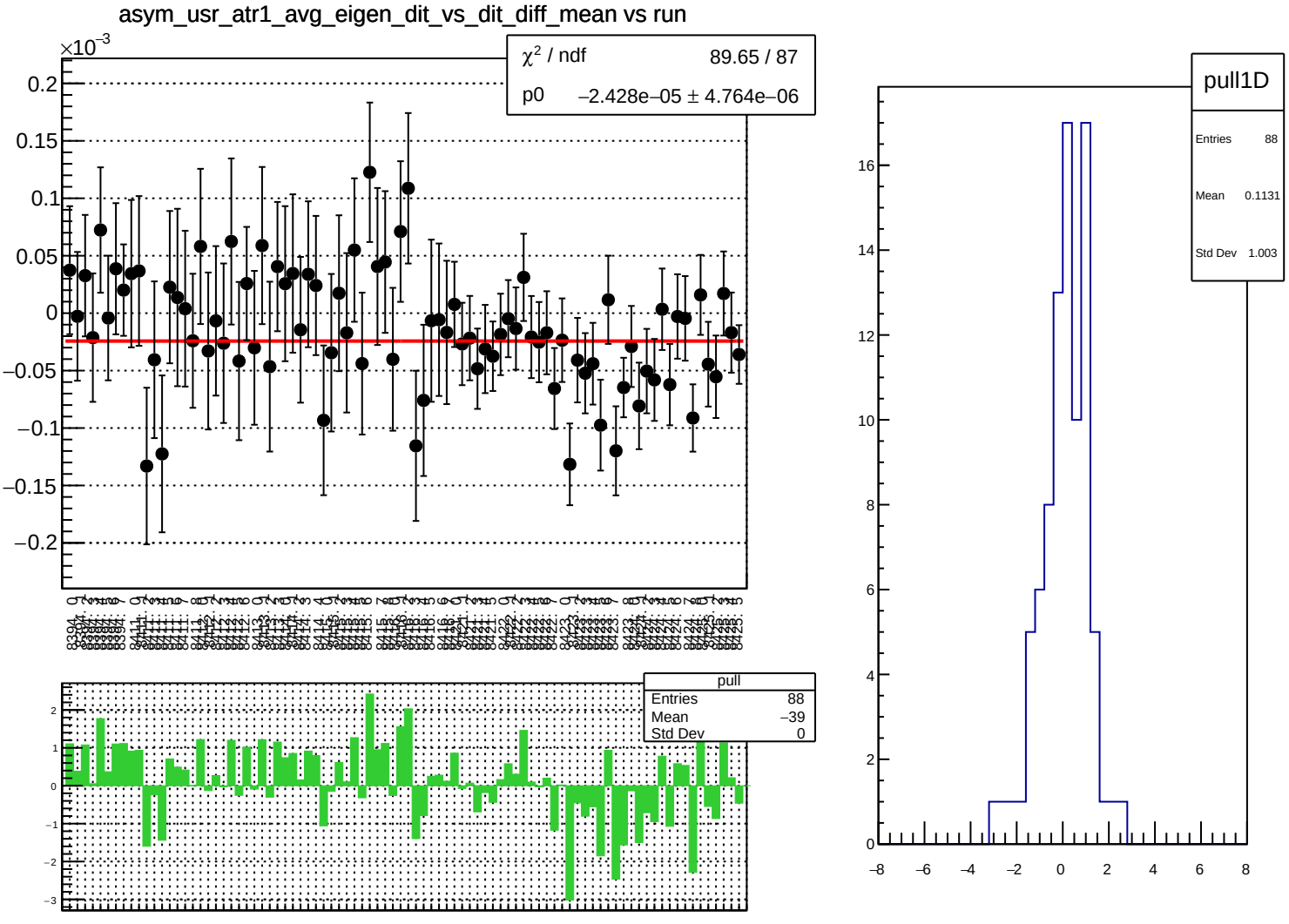

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 70.14 / 87
p0 0.06132 ± 0.08913
pull
Entries 88
Mean 55.67
Std Dev 0

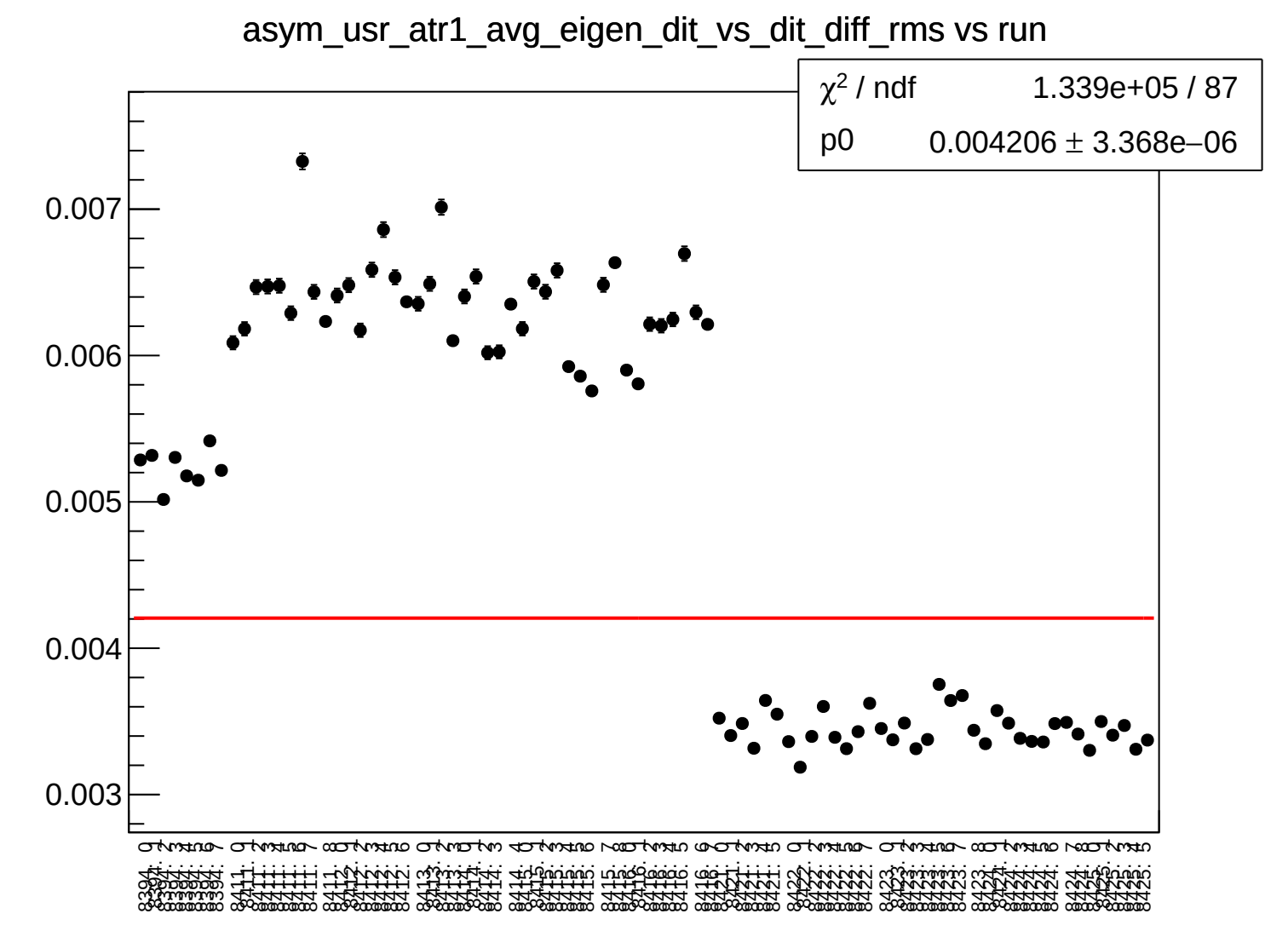

pull1D
Entries 88
Mean 0.02764
Std Dev 0.8923

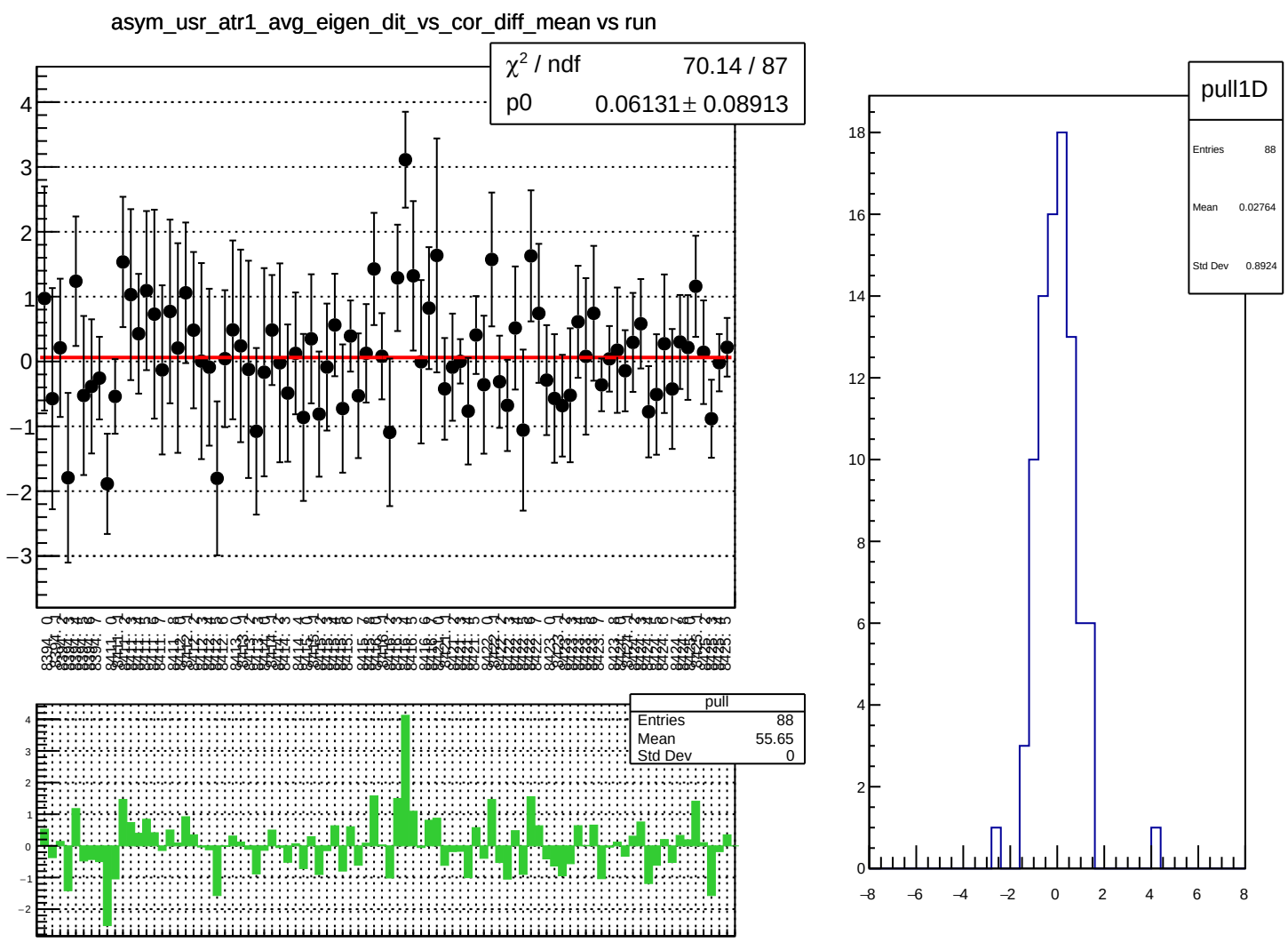

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.962e+05 / 87
p0 77.1 ± 0.06302
180
160
140
120
100
80
60
40
20

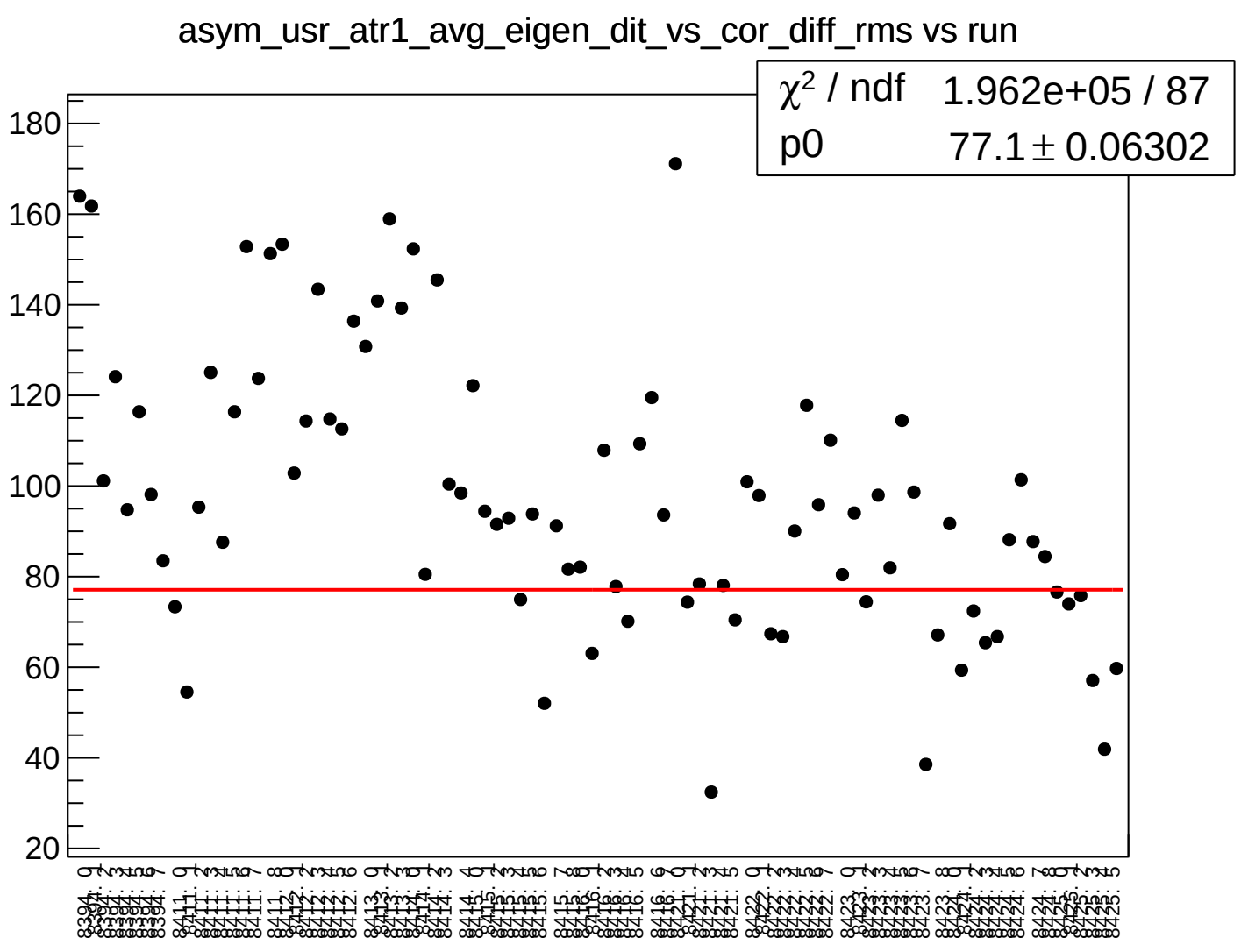

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.14 / 87
p0 0.06132 ± 0.08913
pull
Entries 88
Mean 55.67
Std Dev 0
pull1D
Entries 88
Mean 0.02764
Std Dev 0.8923

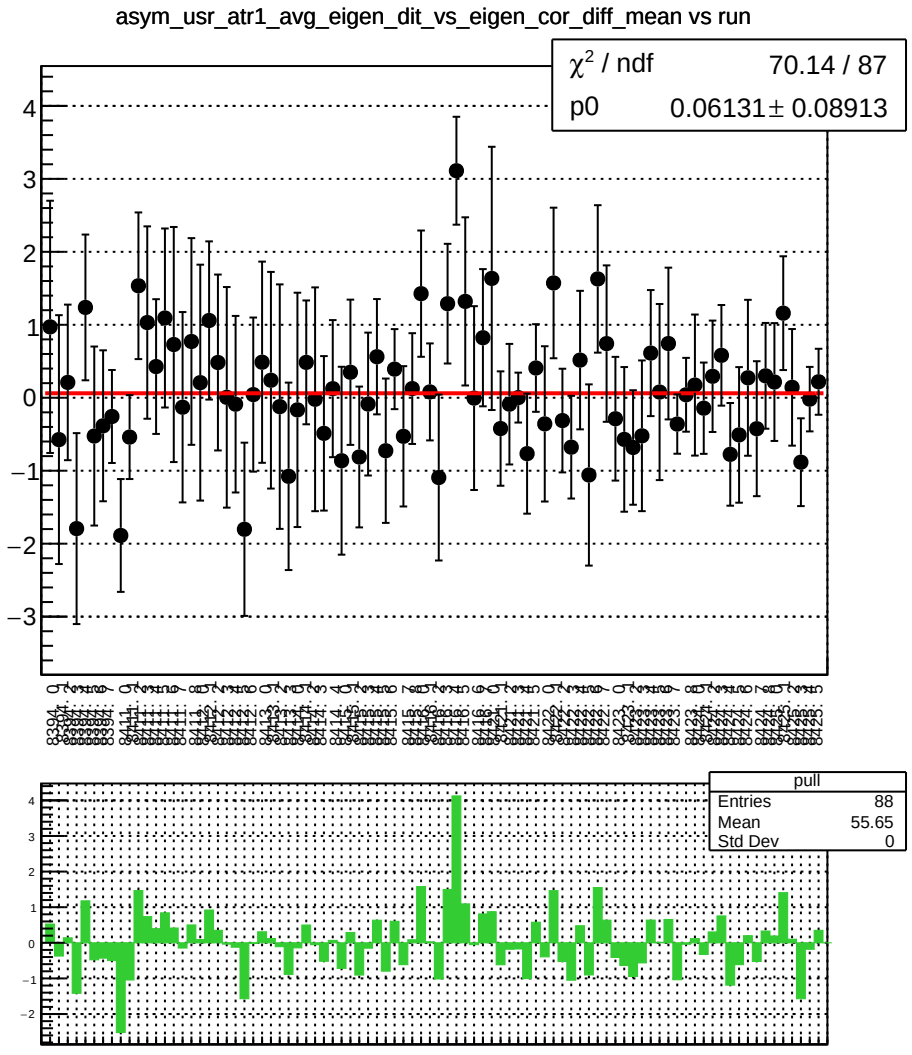

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.962e+05 / 87
p0 77.1 ± 0.06302
180
160
140
120
100
80
60
40
20

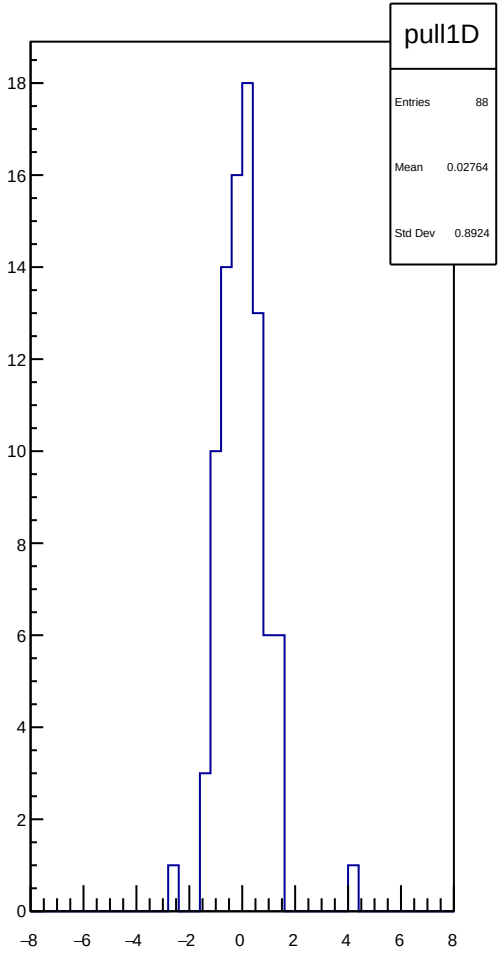

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.65 / 87
p0 −2.428e−05 ± 4.764e−06
pull
Entries 88
Mean −39
Std Dev 0
pull1D
Entries 88
Mean 0.1131
Std Dev 1.003

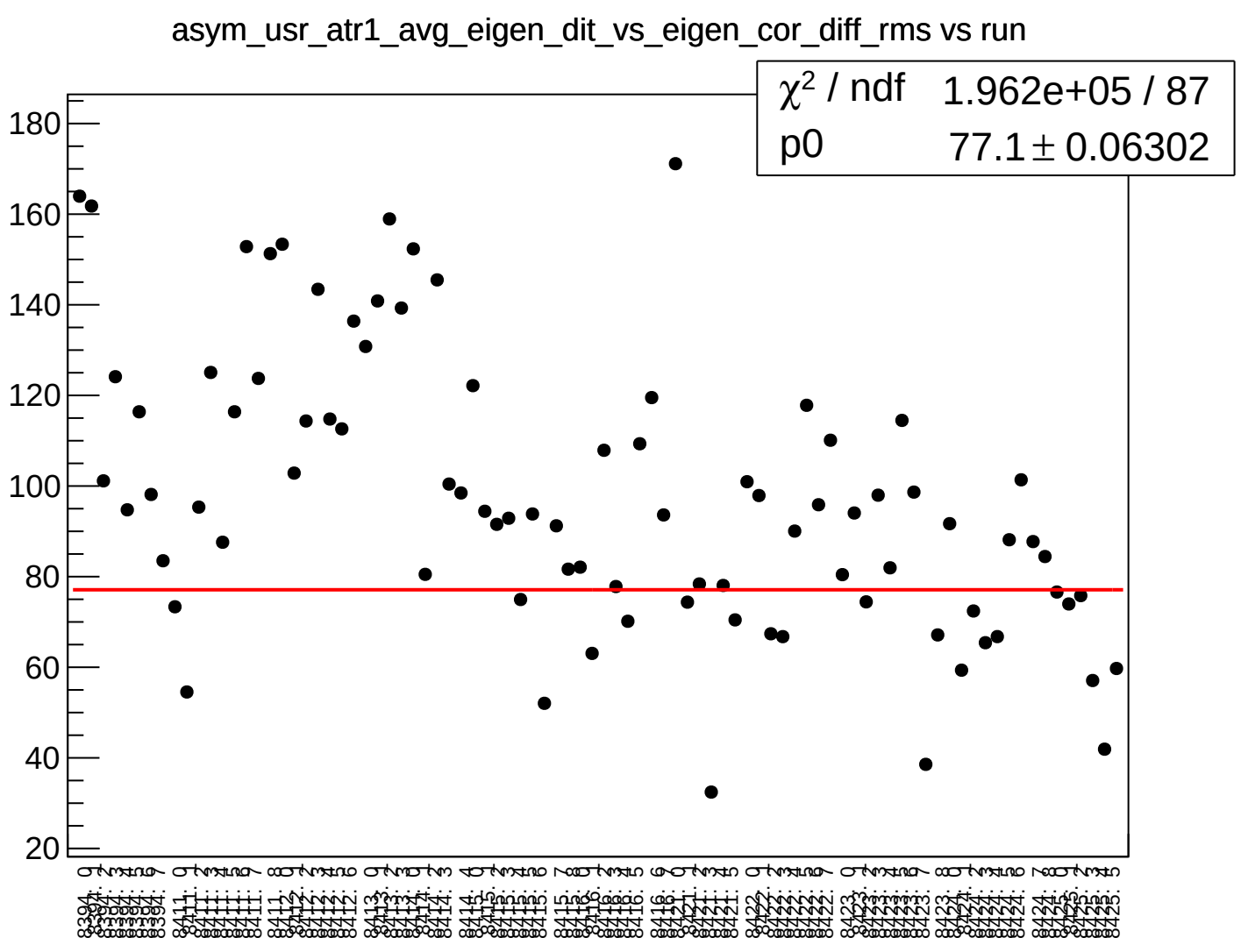

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.339e+05 / 87
p0 0.004206 ± 3.368e−06
0.007
0.006
0.005
0.004
0.003

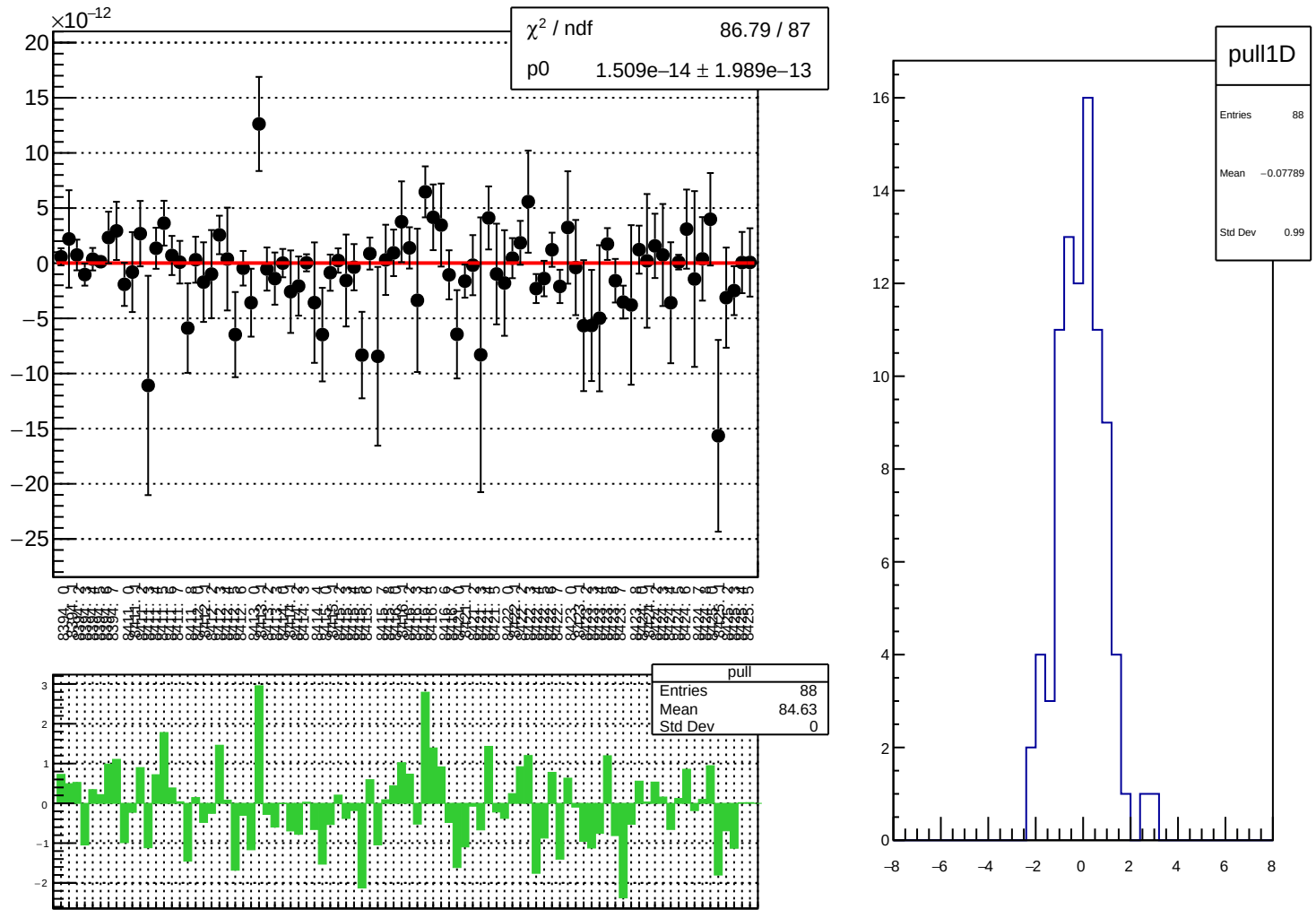

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.14 / 87
p0 0.06131 ± 0.08913
pull
Entries 88
Mean 55.65
Std Dev 0
pull1D
Entries 88
Mean 0.02764
Std Dev 0.8924

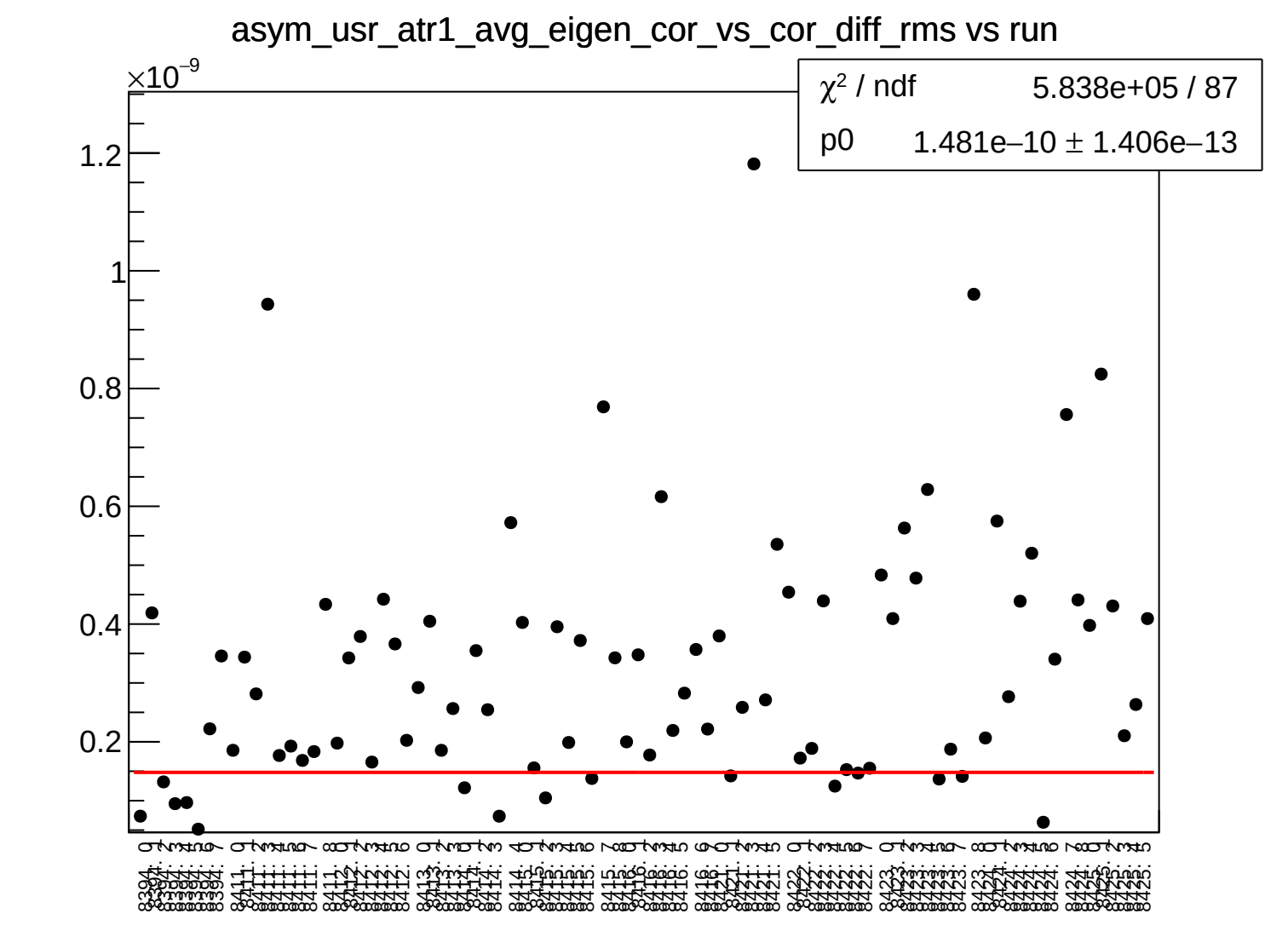

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.962e+05 / 87
p0 77.1 ± 0.06302
180
160
140
120
100
80
60
40
20

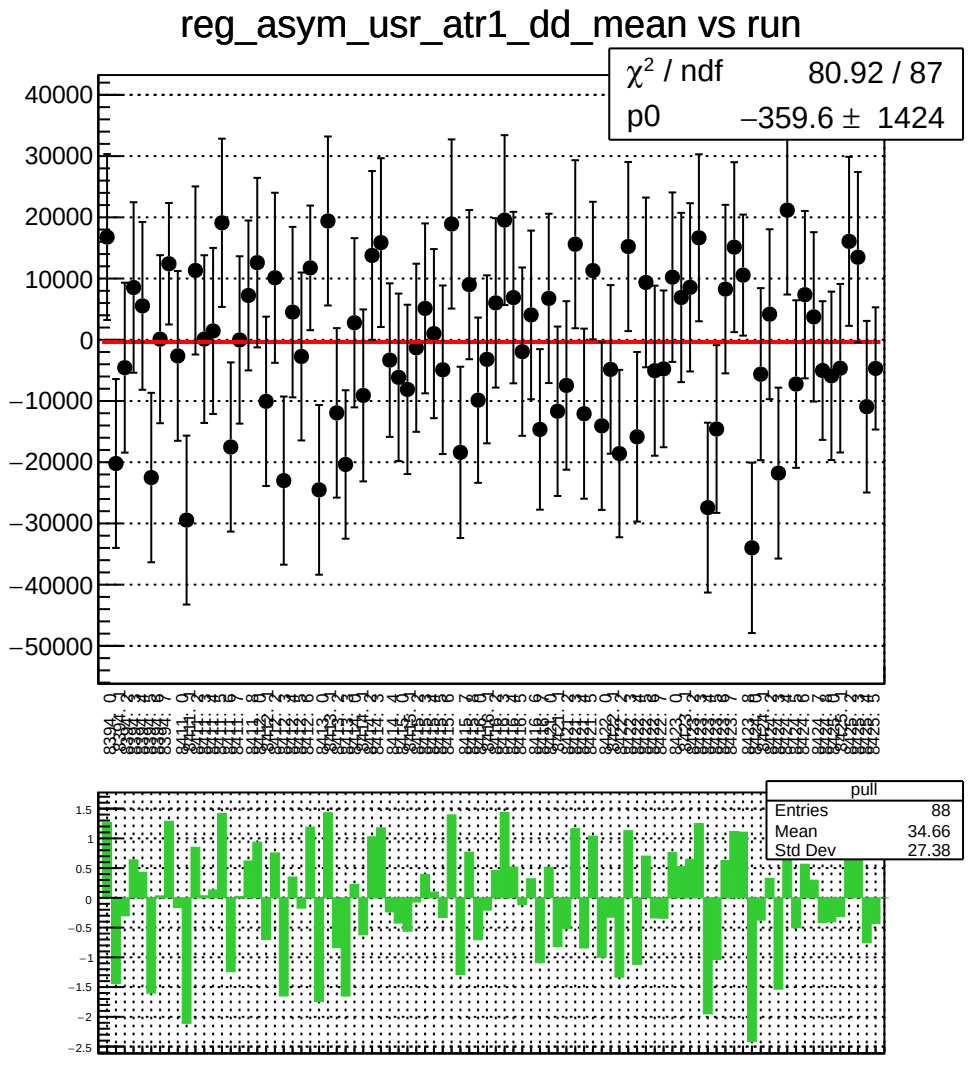

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.14 / 87
p0 0.06131 ± 0.08913
pull
Entries 88
Mean 55.65
Std Dev 0

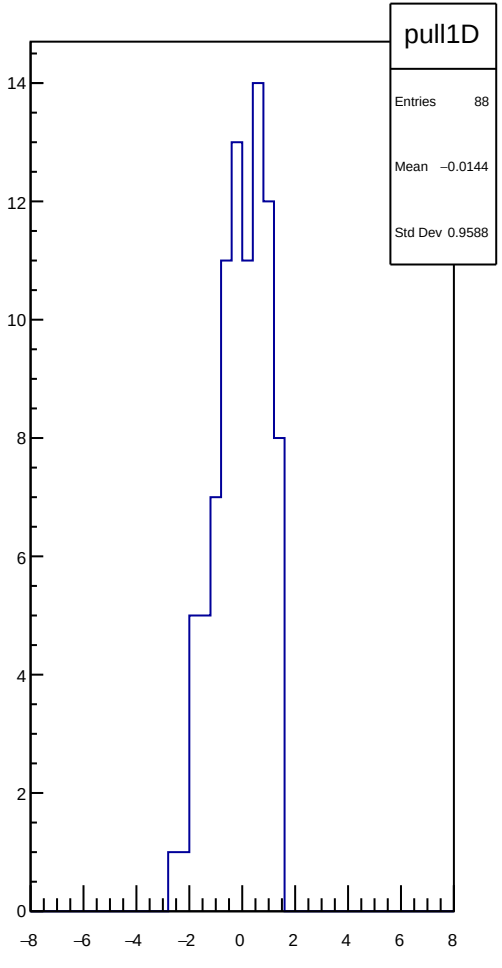

pull1D
Entries 88
Mean 0.02764
Std Dev 0.8924

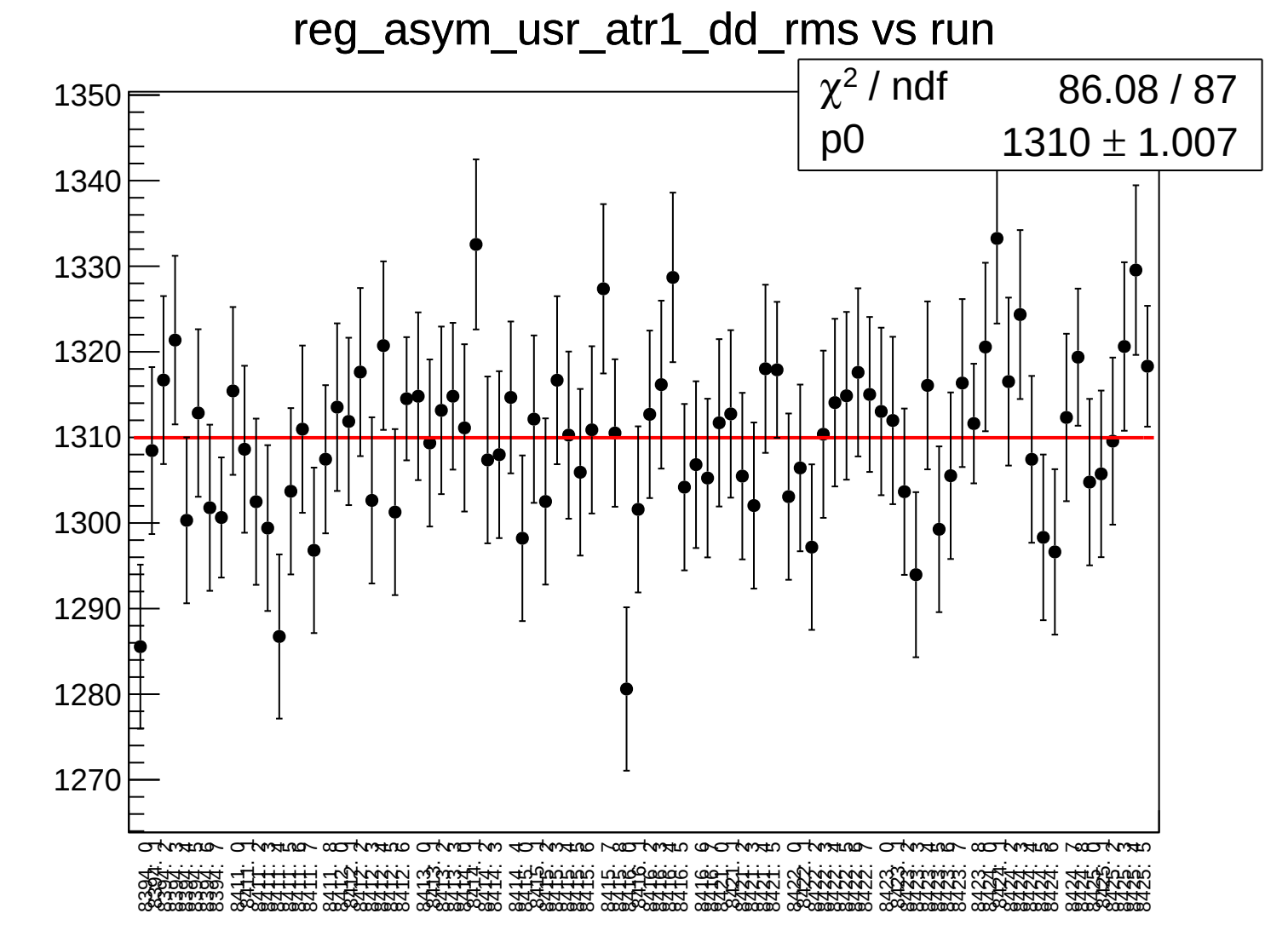

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.962e+05 / 87
p0 77.1 ± 0.06302
180
160
140
120
100
80
60
40
20

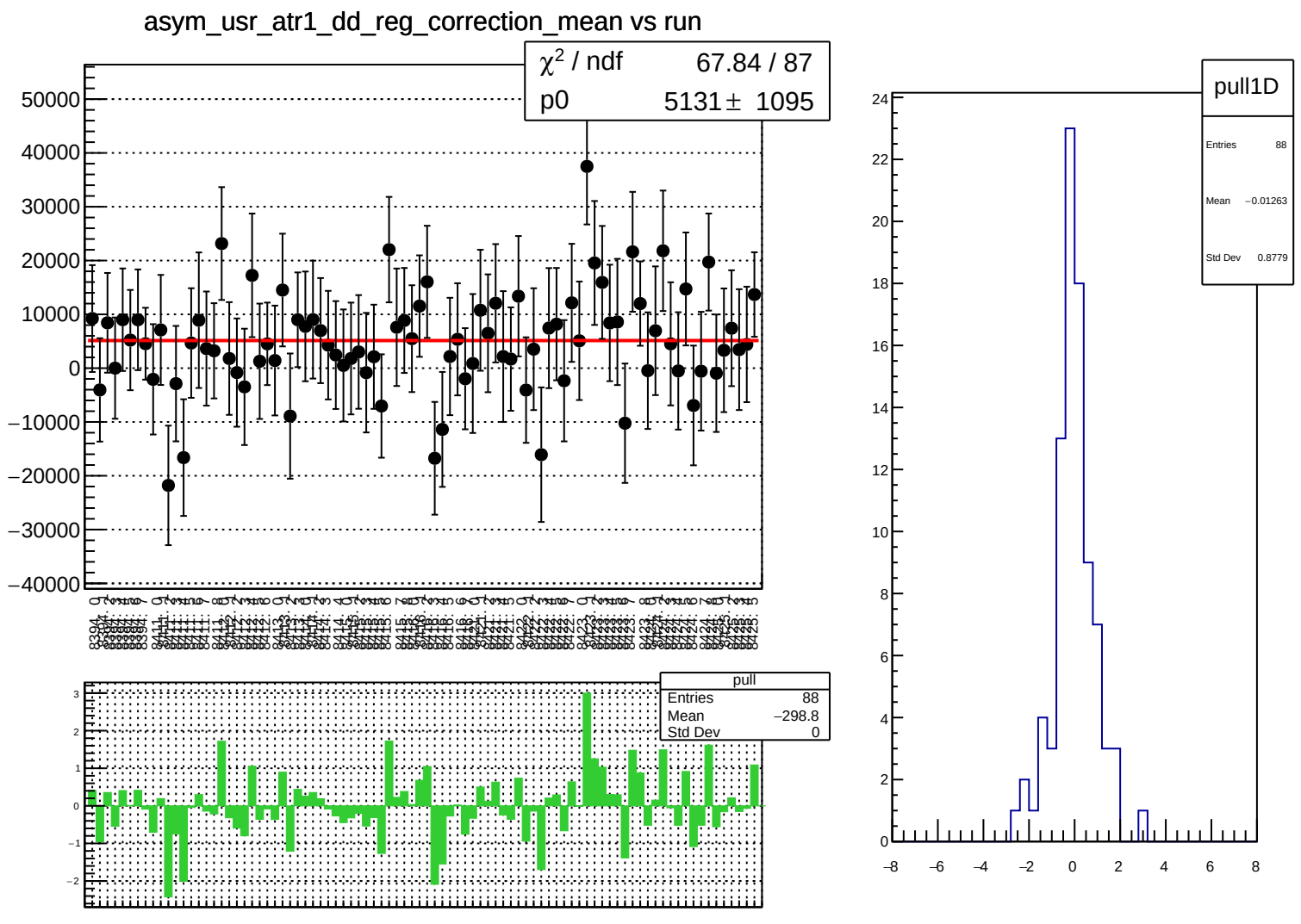

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.79 / 87
p0 1.509e−14 ± 1.989e−13
pull
Entries 88
Mean 84.63
Std Dev 0
pull1D
Entries 88
Mean −0.07789
Std Dev 0.99

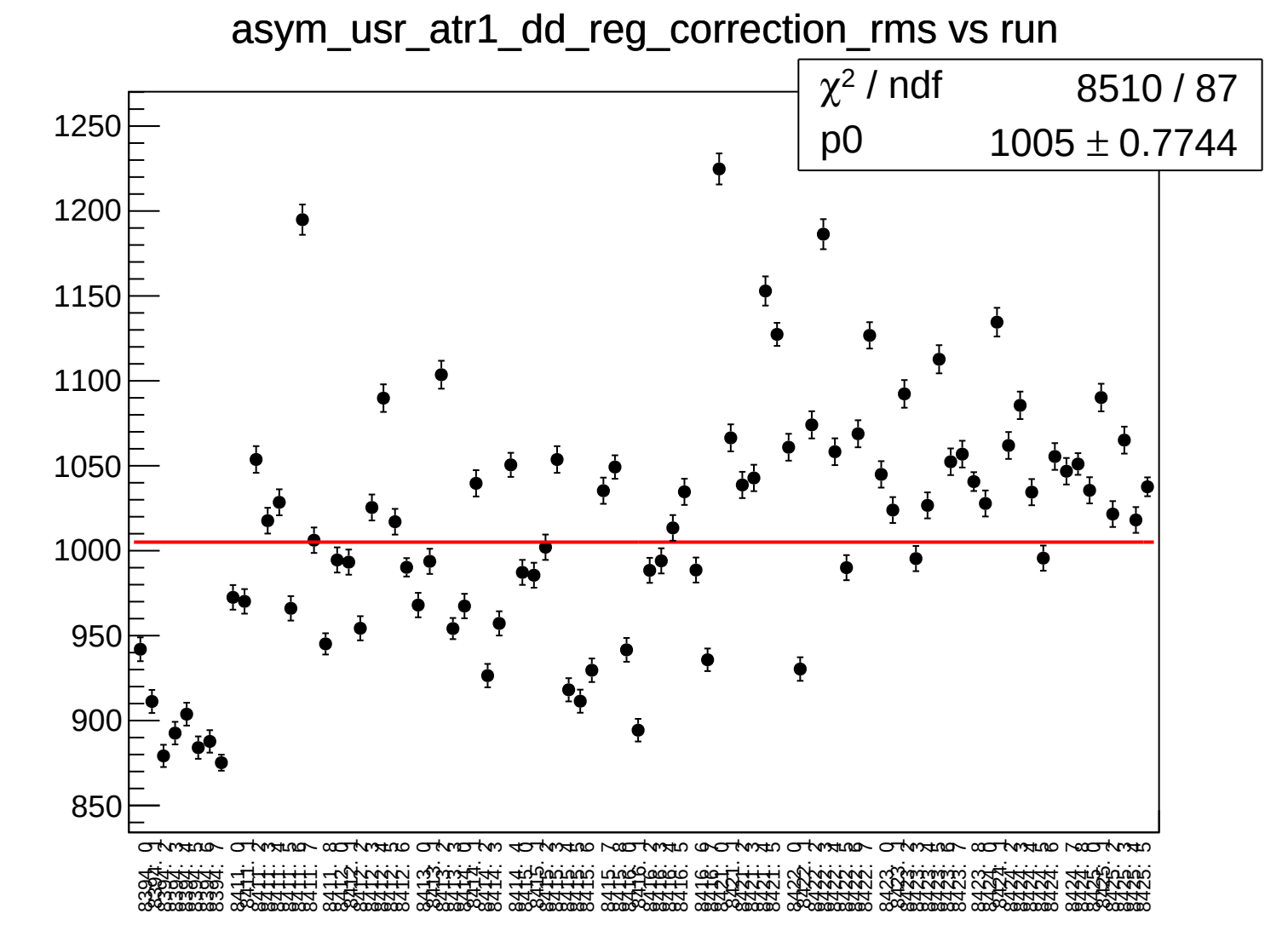

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.838e+05 / 87
p0 1.481e−10 ± 1.406e−13
1.2
1
0.8
0.6
0.4
0.2

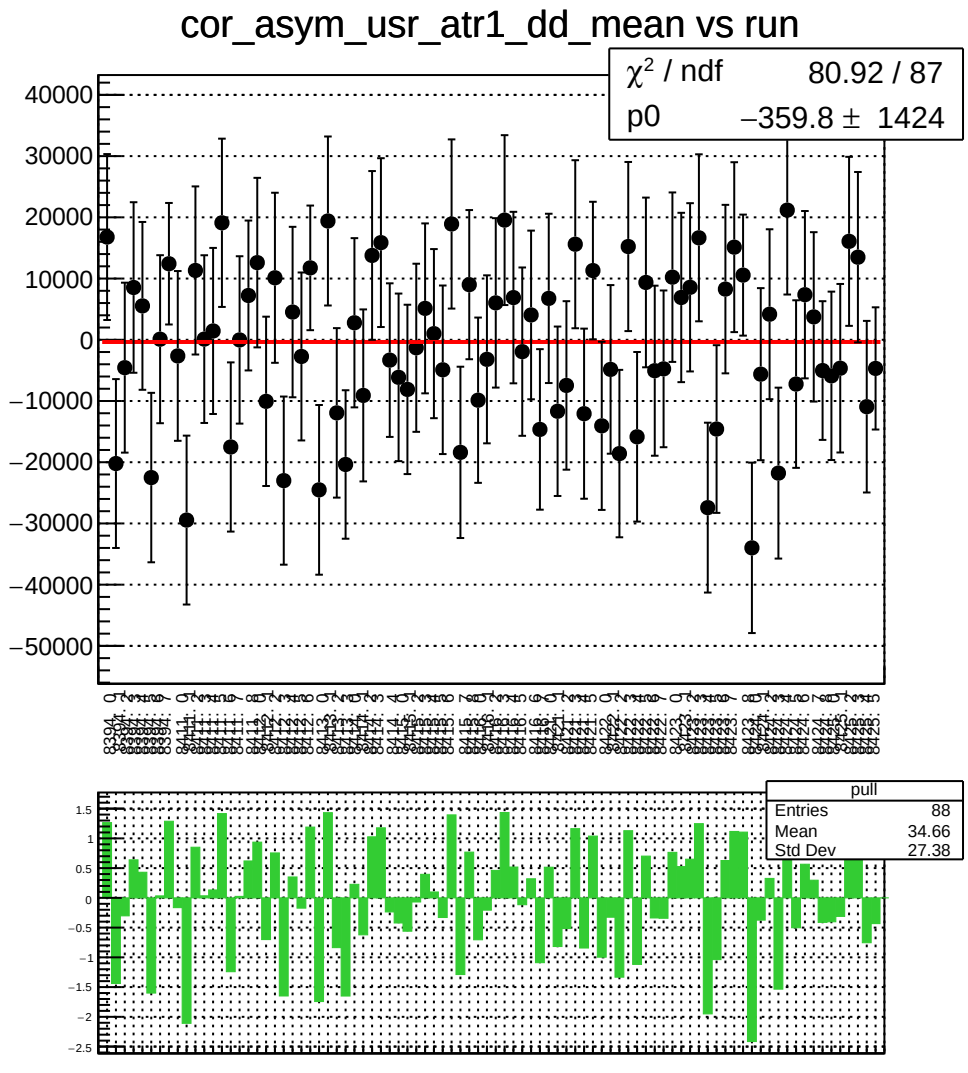

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 80.92 / 87
p0 −359.6 ± 1424
pull
Entries 88
Mean 34.66
Std Dev 27.38

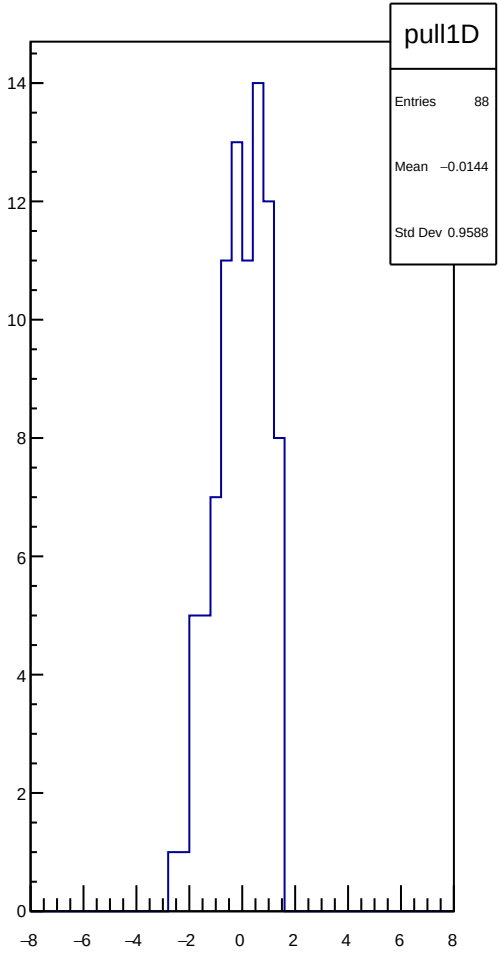

pull1D
Entries 88
Mean −0.0144
Std Dev 0.9588

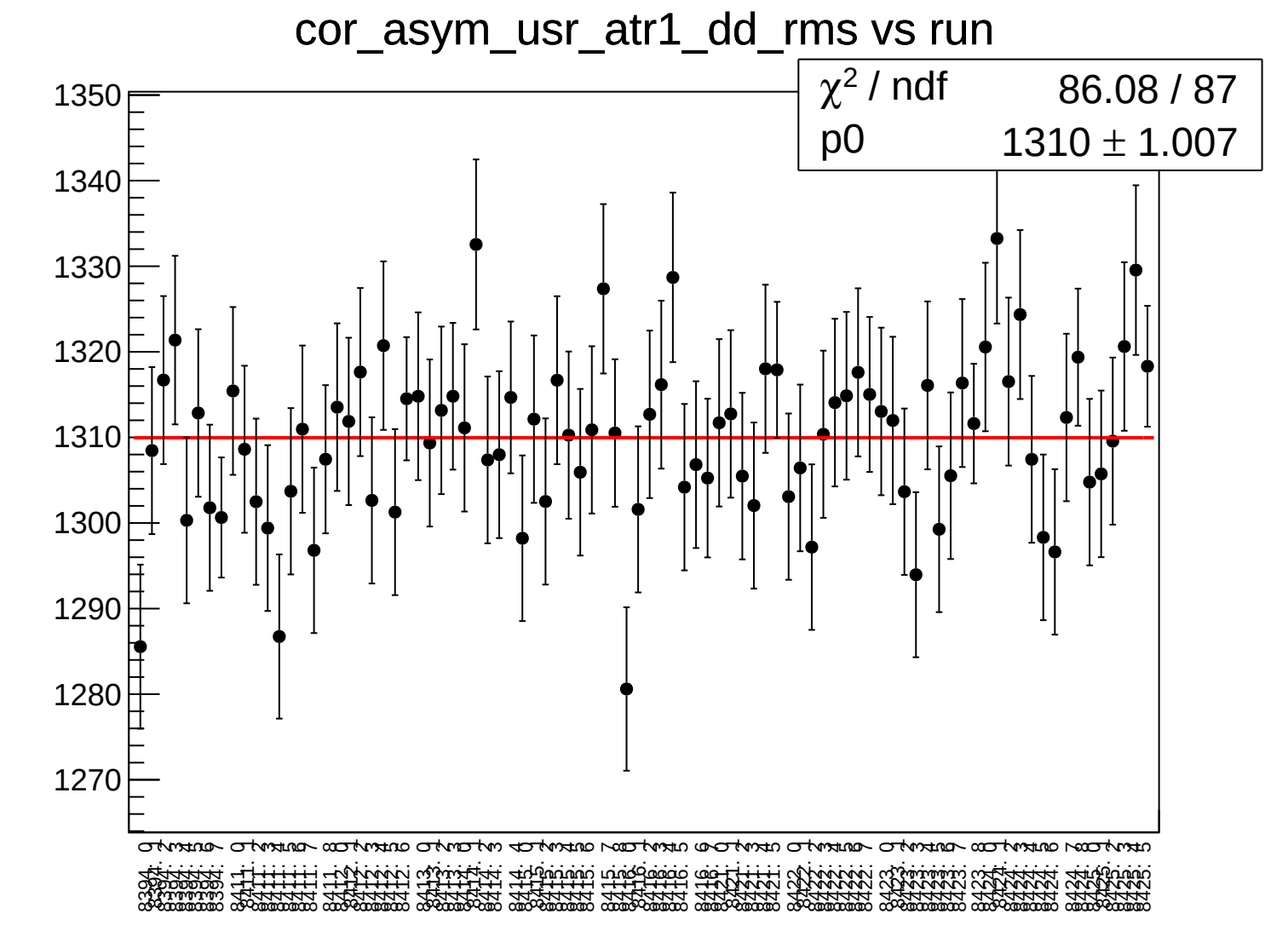

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 86.08 / 87
p0 1310 ± 1.007
1350
1340
1330
1320
1310
1300
1290
1280
1270

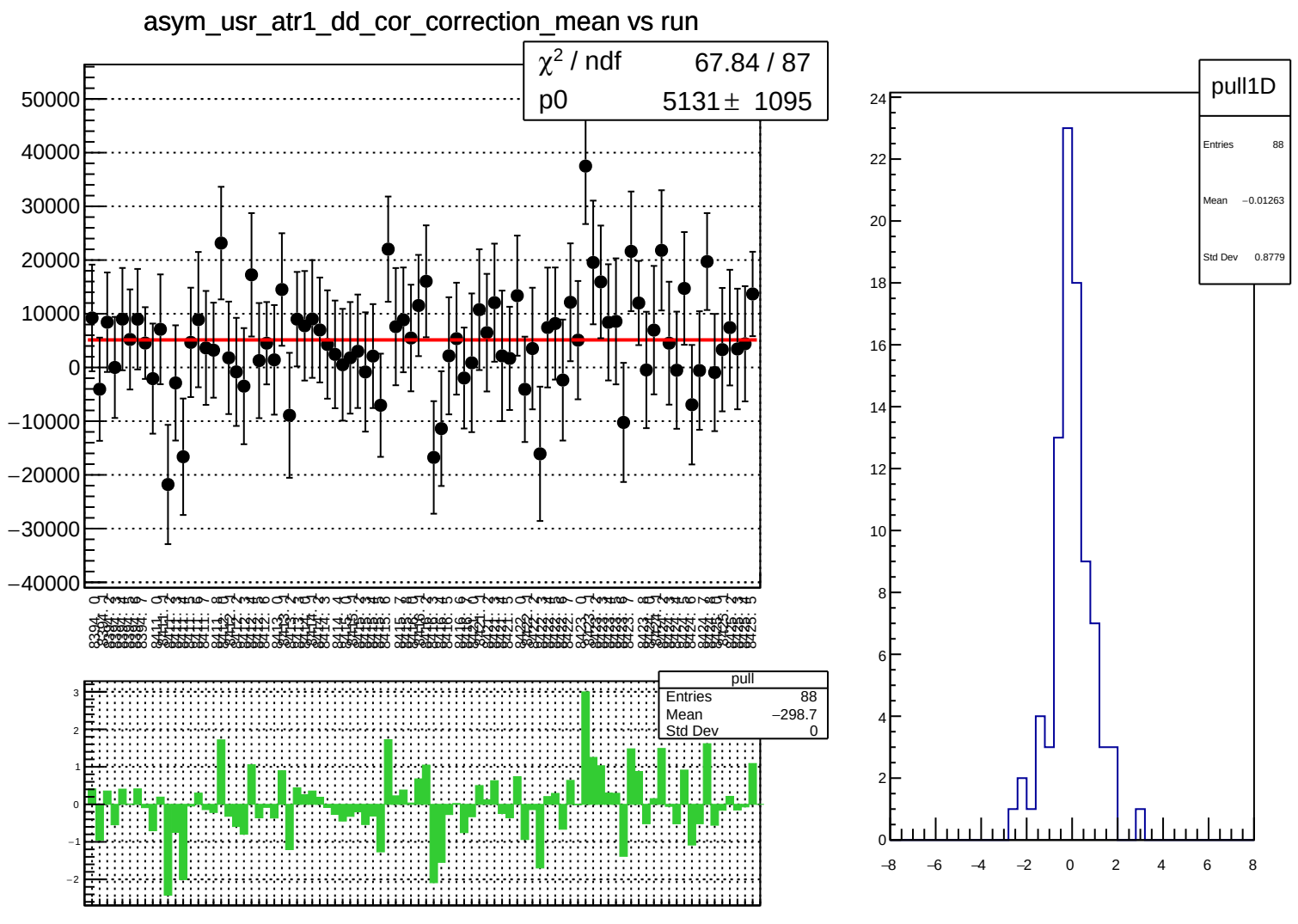

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 67.84 / 87
p0 5131 ± 1095
pull
Entries 88
Mean −298.8
Std Dev 0
pull1D
Entries 88
Mean −0.01263
Std Dev 0.8779

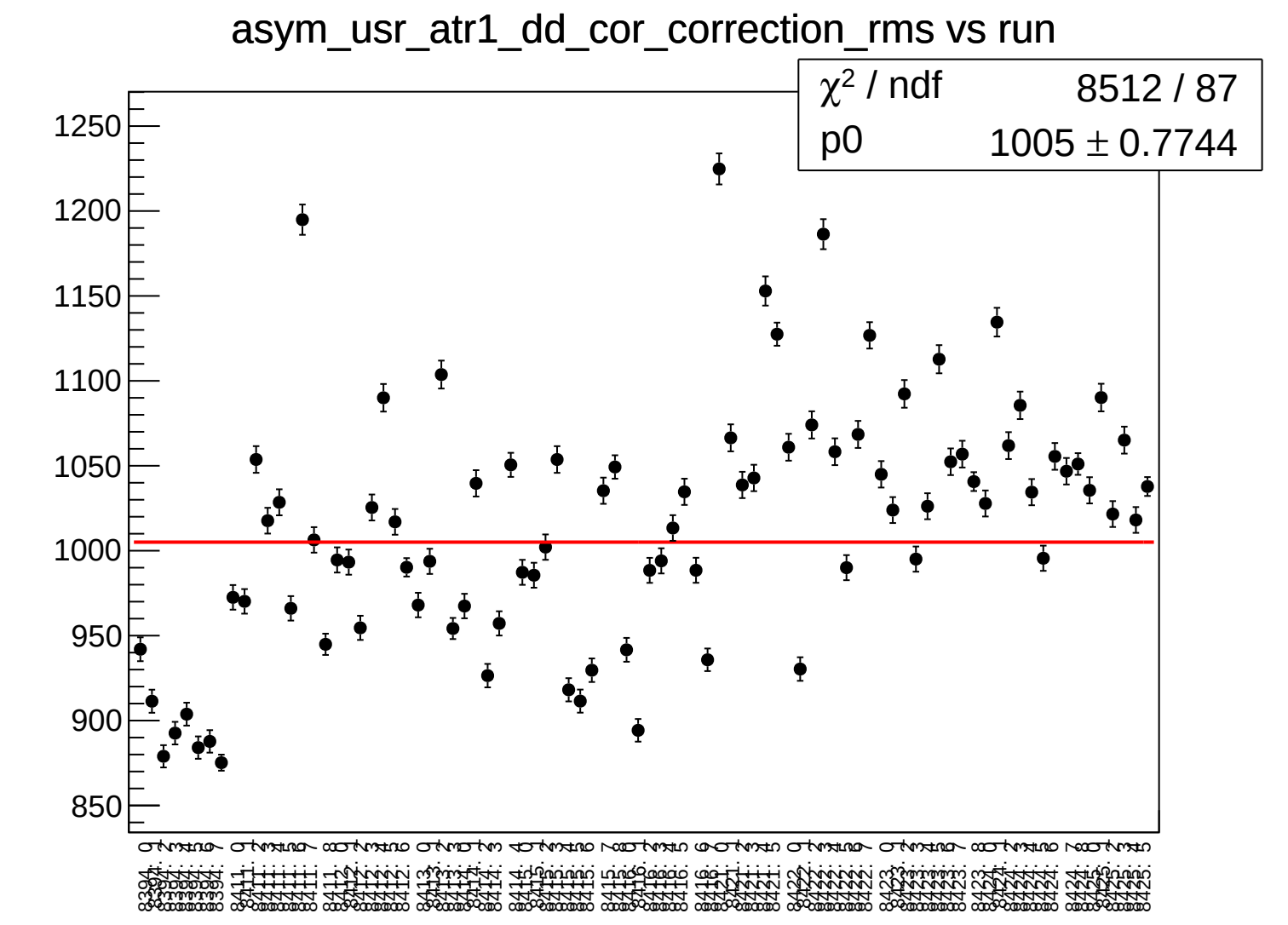

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 8510 / 87
p0 1005 ± 0.7744
1250
1200
1150
1100
1050
1000
950
900
850

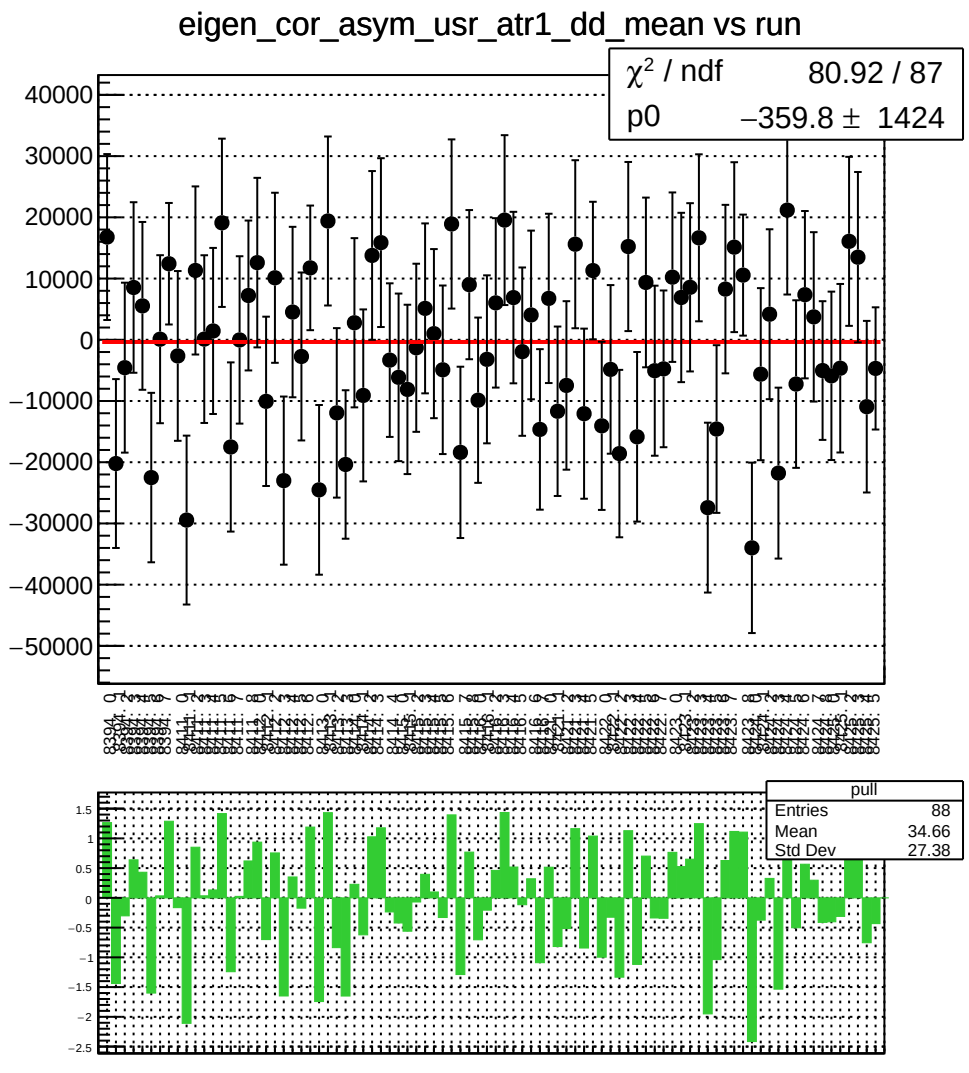

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 80.92 / 87
p0 −359.8 ± 1424
pull
Entries 88
Mean 34.66
Std Dev 27.38

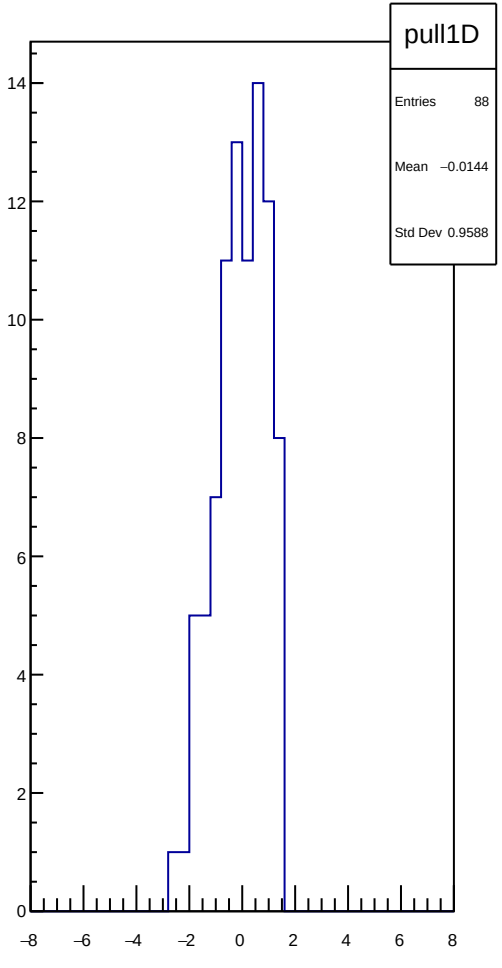

pull1D
Entries 88
Mean −0.0144
Std Dev 0.9588

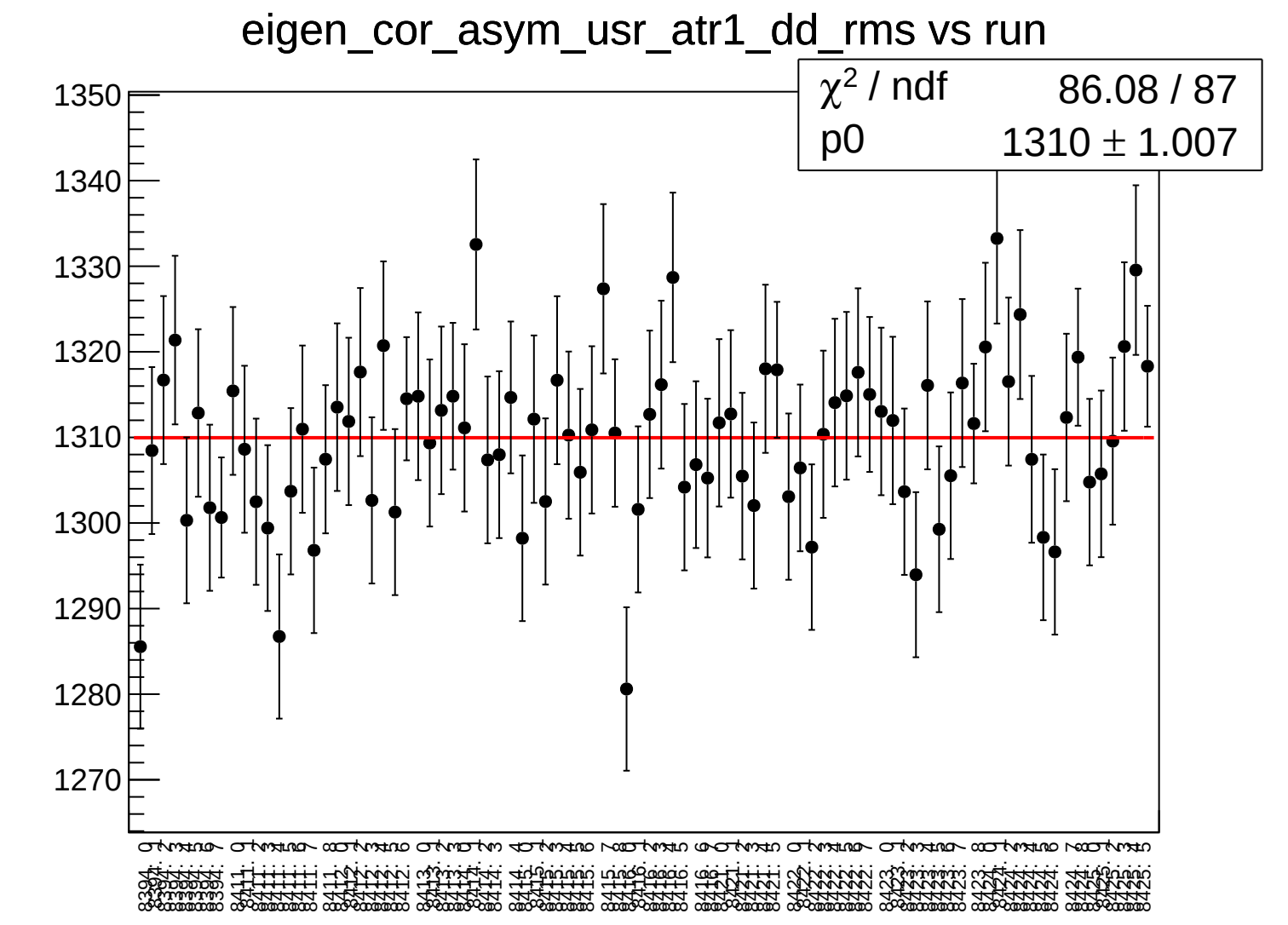

cor_asym_usr_atr1_dd_rms vs run
χ^2 / ndf 86.08 / 87
p0 1310 ± 1.007
1350
1340
1330
1320
1310
1300
1290
1280
1270

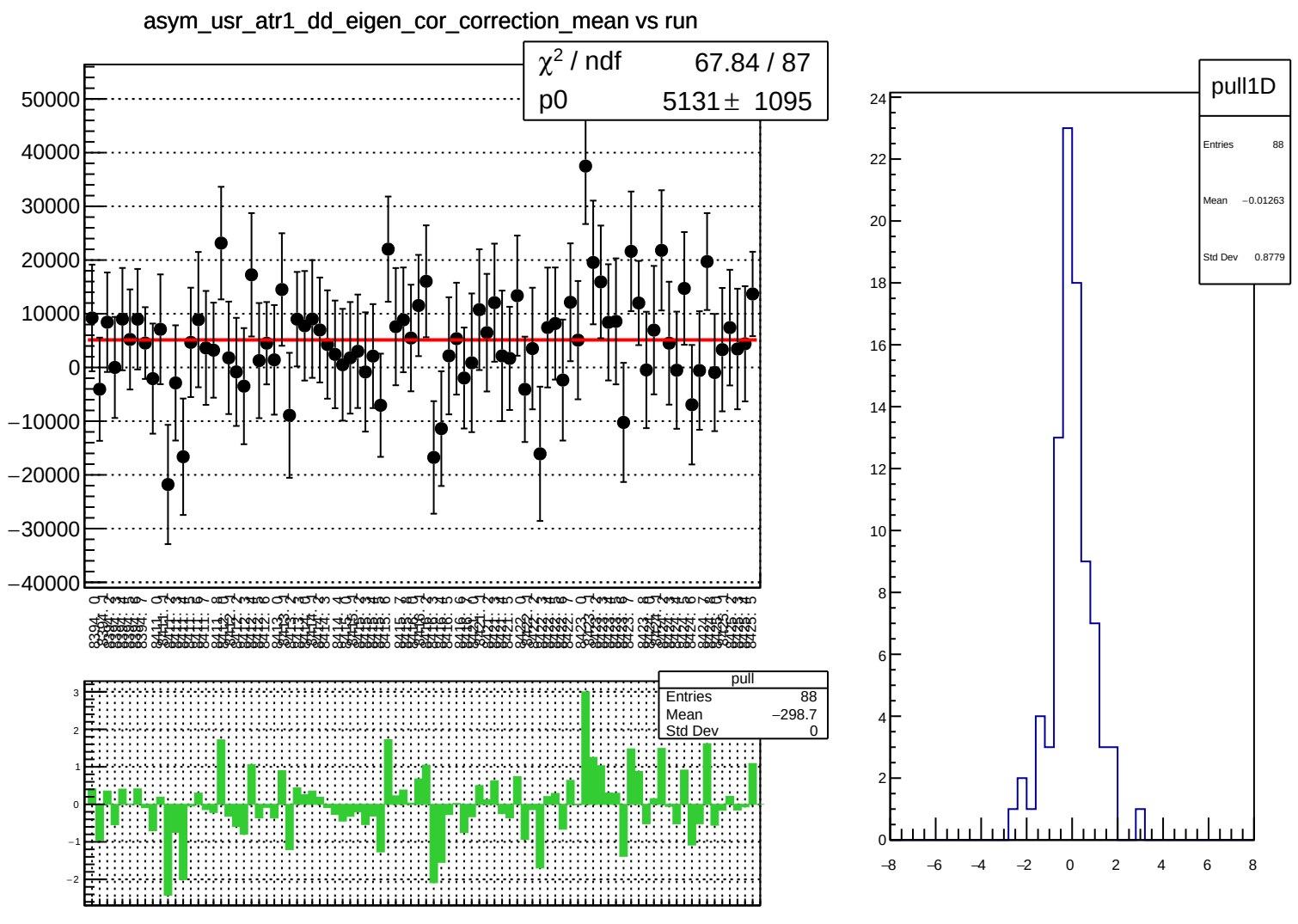

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 67.84 / 87
p0 5131 ± 1095
pull
Entries 88
Mean −298.7
Std Dev 0
pull1D
Entries 88
Mean −0.01263
Std Dev 0.8779

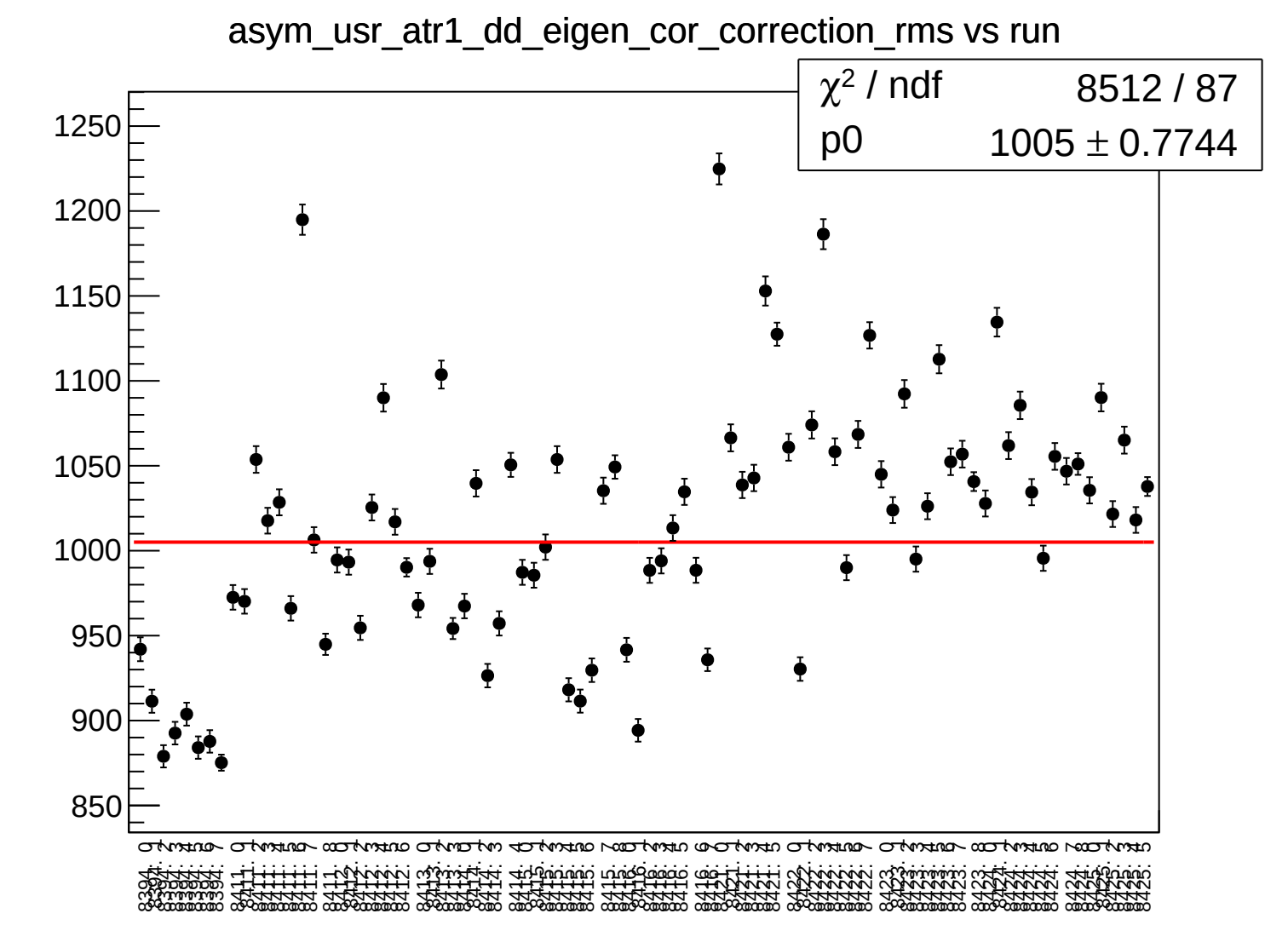

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 8512 / 87
p0 1005 ± 0.7744
1250
1200
1150
1100
1050
1000
950
900
850

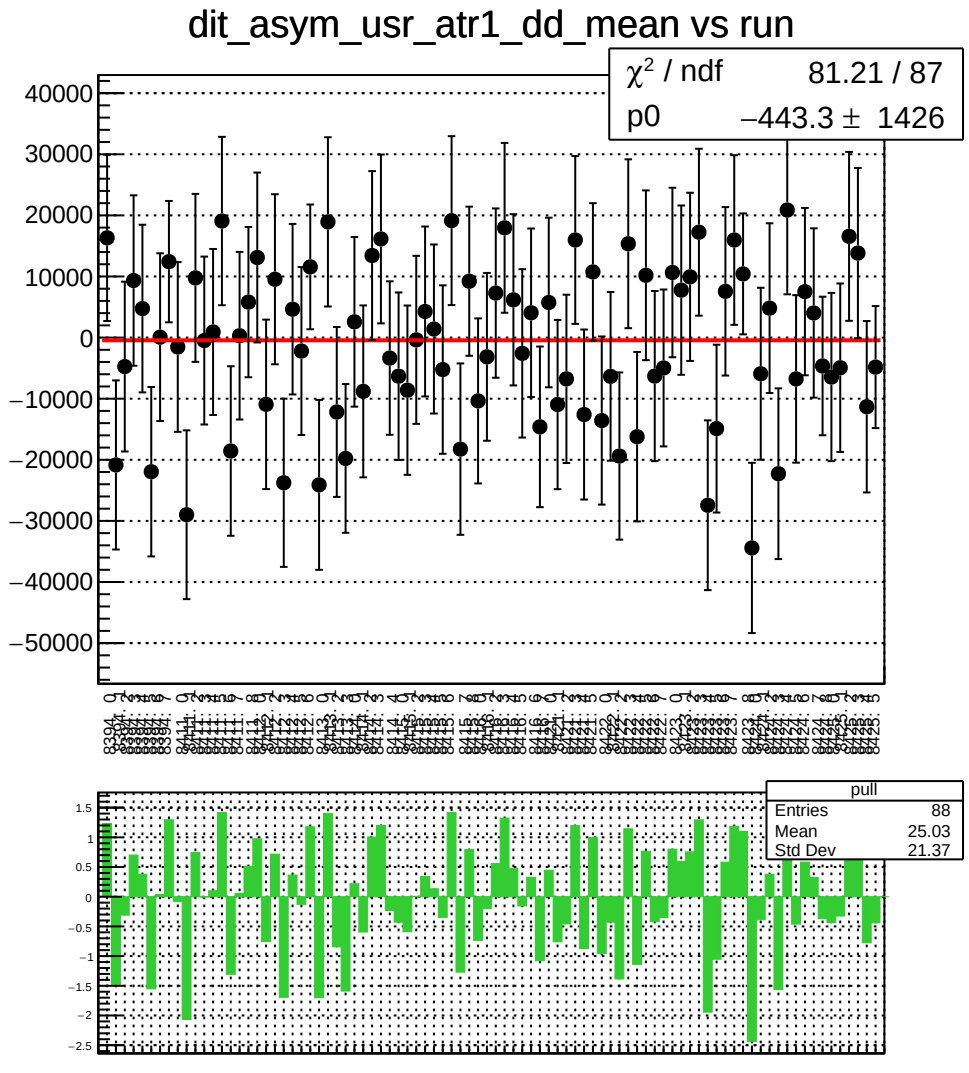

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 80.92 / 87
p0 −359.8 ± 1424
pull
Entries 88
Mean 34.66
Std Dev 27.38

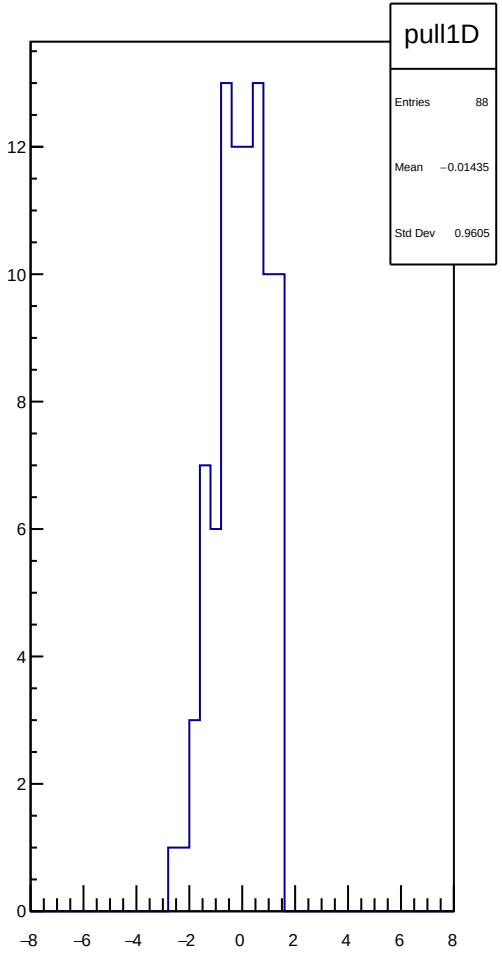

pull1D
Entries 88
Mean −0.0144
Std Dev 0.9588

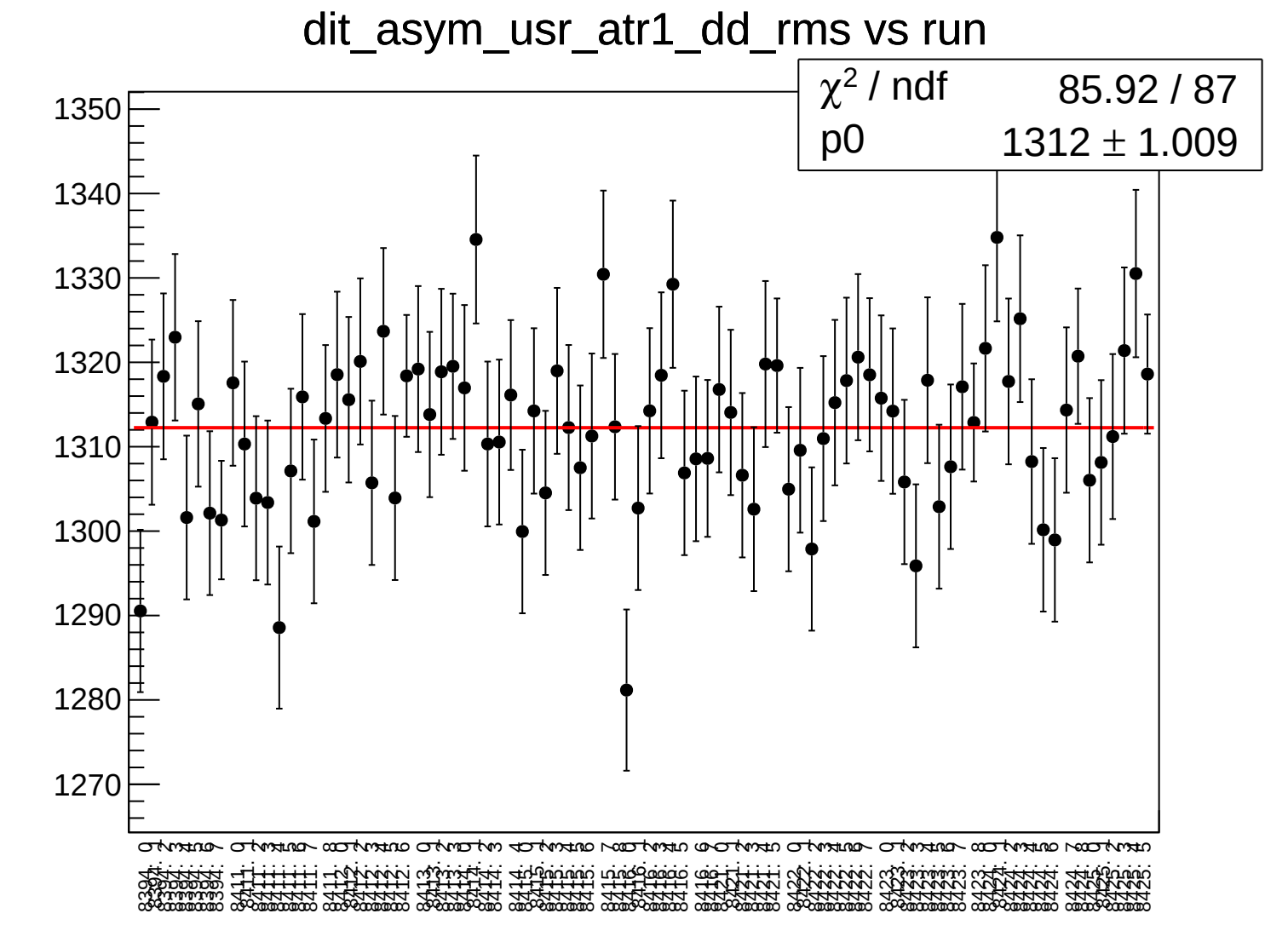

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 86.08 / 87
p0 1310 ± 1.007
1350
1340
1330
1320
1310
1300
1290
1280
1270

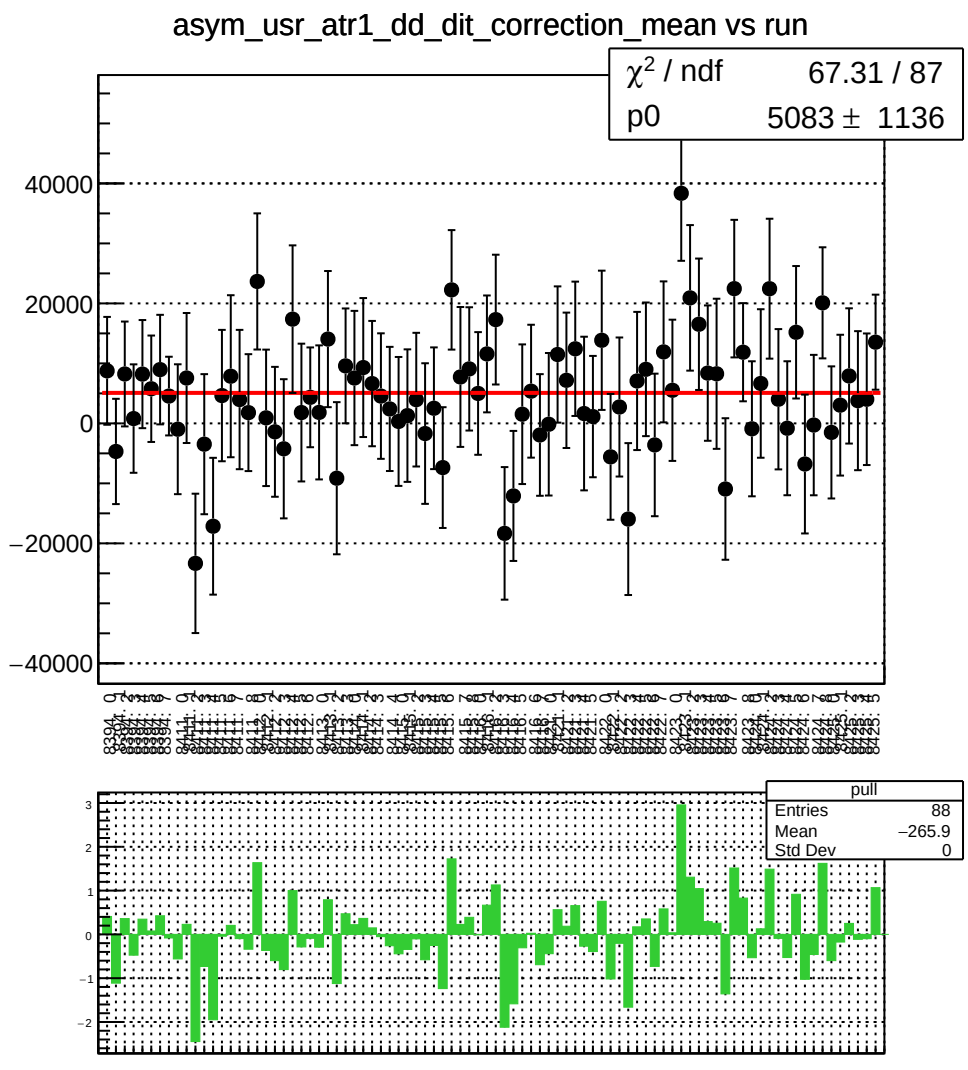

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 67.84 / 87
p0 5131 ± 1095
pull
Entries 88
Mean −298.7
Std Dev 0
pull1D
Entries 88
Mean −0.01263
Std Dev 0.8779

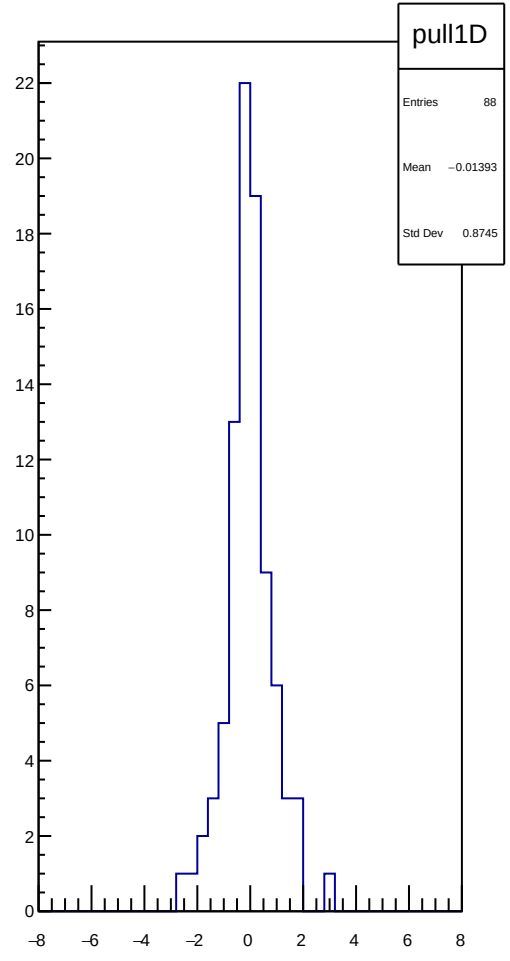

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 8512 / 87
p0 1005 ± 0.7744
1250
1200
1150
1100
1050
1000
950
900
850

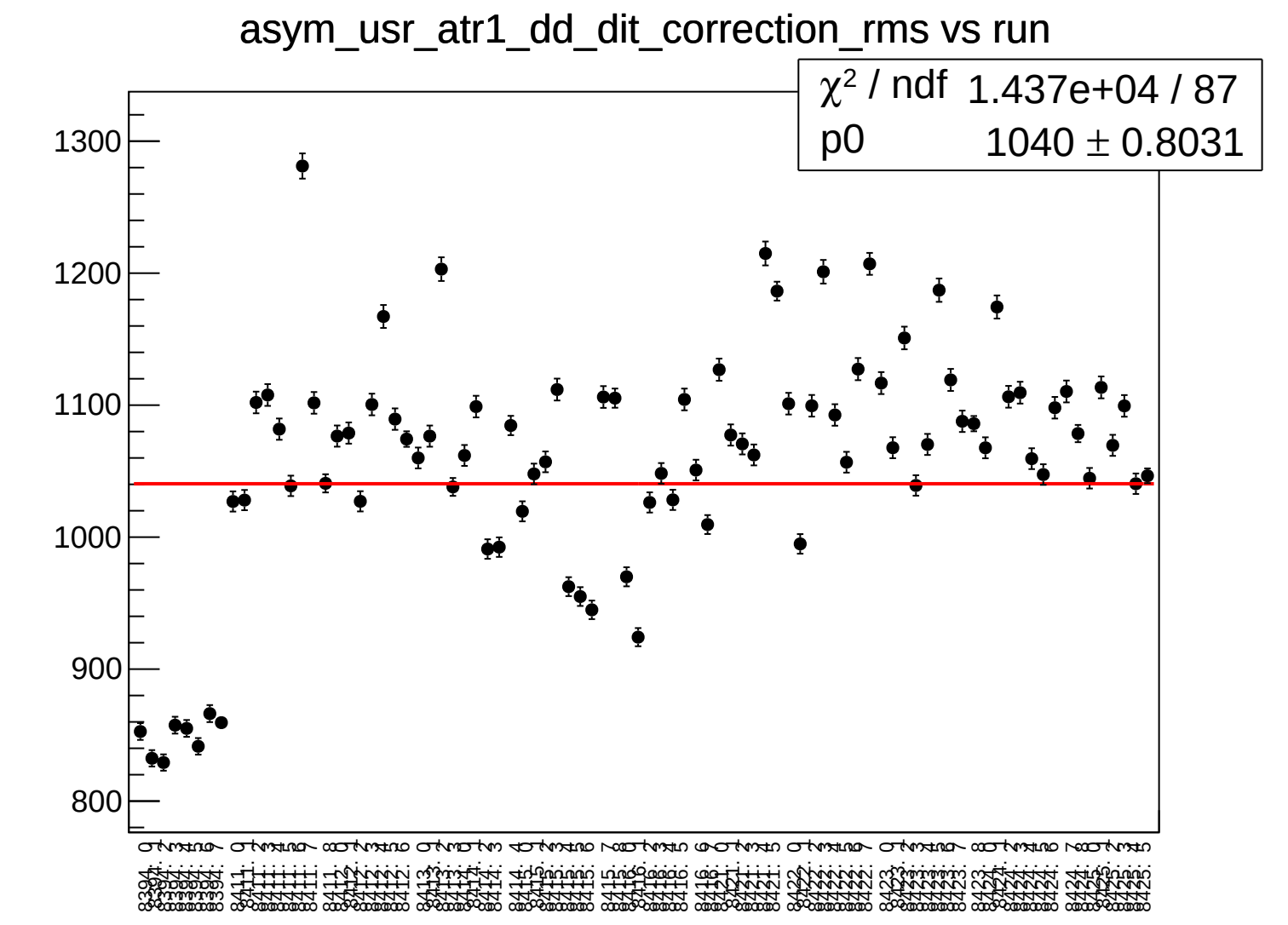

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 81.21 / 87
p0 −443.3 ± 1426
pull
Entries 88
Mean 25.03
Std Dev 21.37

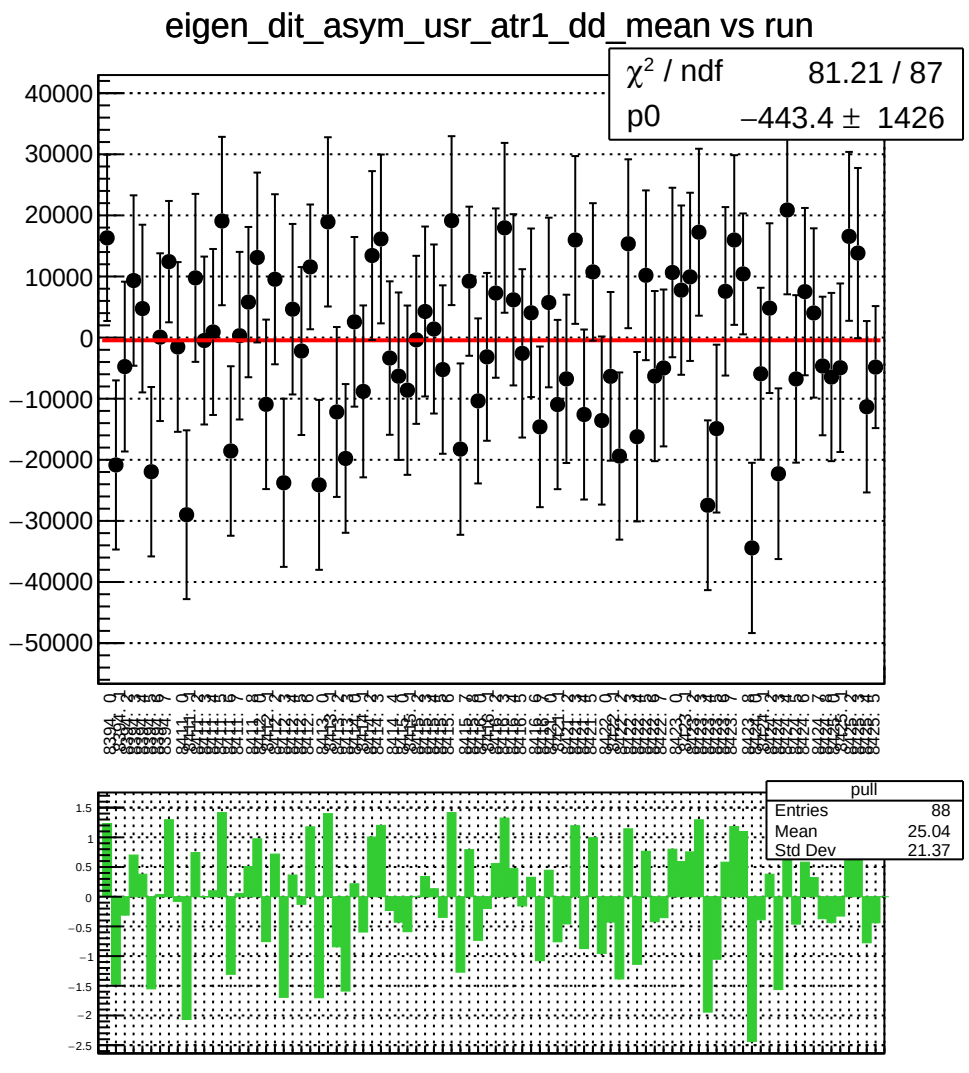

pull1D
Entries 88
Mean −0.01435
Std Dev 0.9605

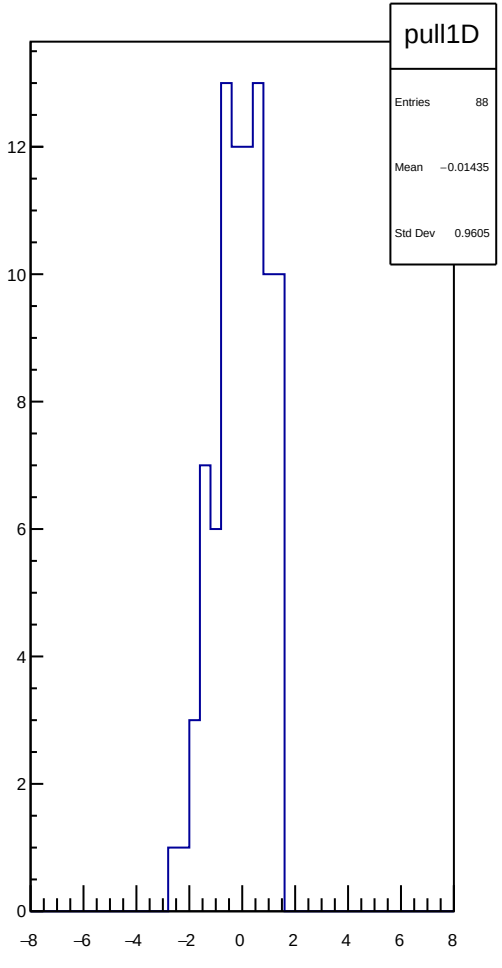

dit_asym_usr_atr1_dd_rms vs run
χ^2 / ndf 85.92 / 87
p0 1312 ± 1.009
1350
1340
1330
1320
1310
1300
1290
1280
1270

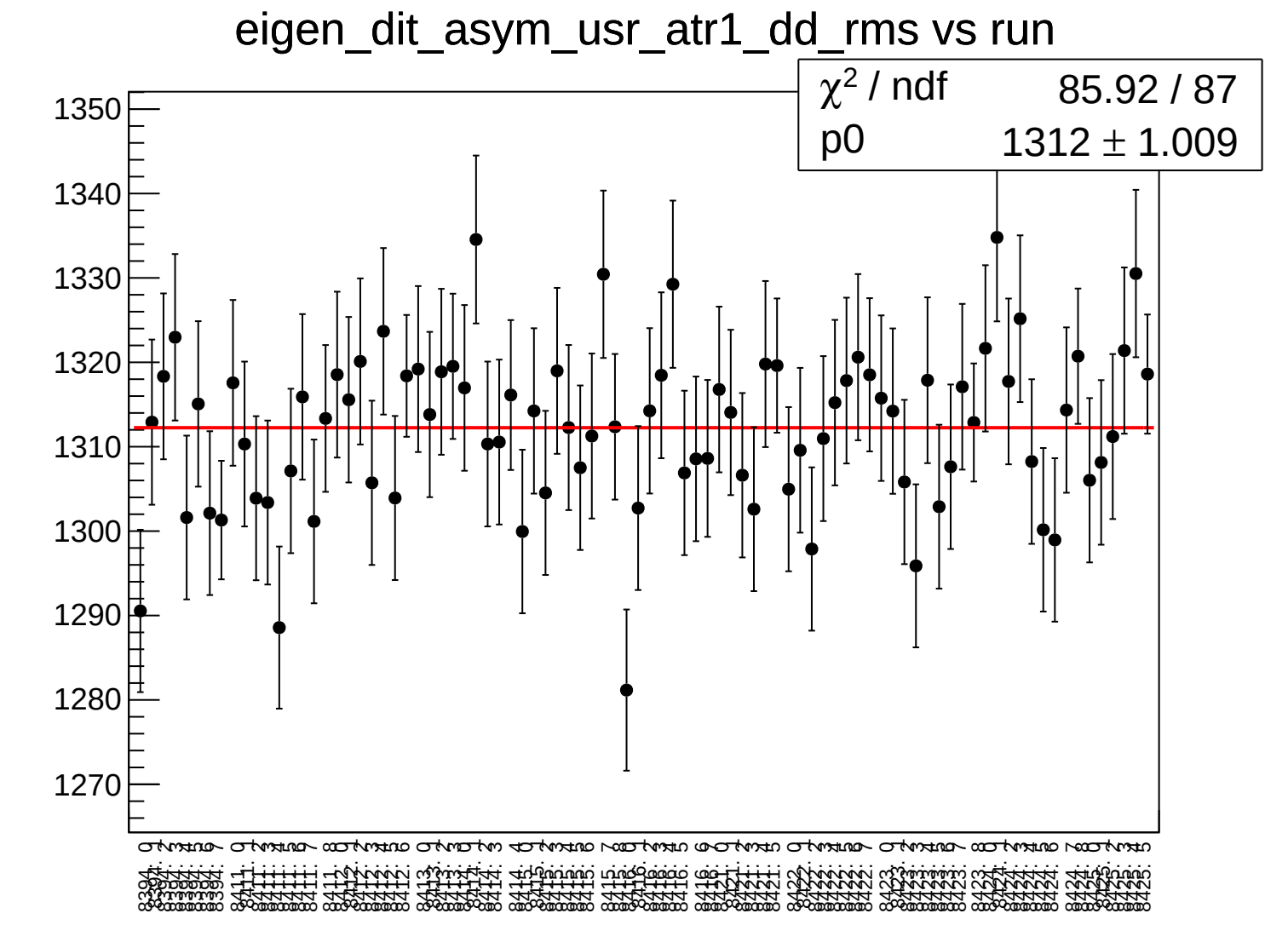

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 67.31 / 87
p0 5083 ± 1136
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −265.9
Std Dev 0
3
2
1
0
−1
−2

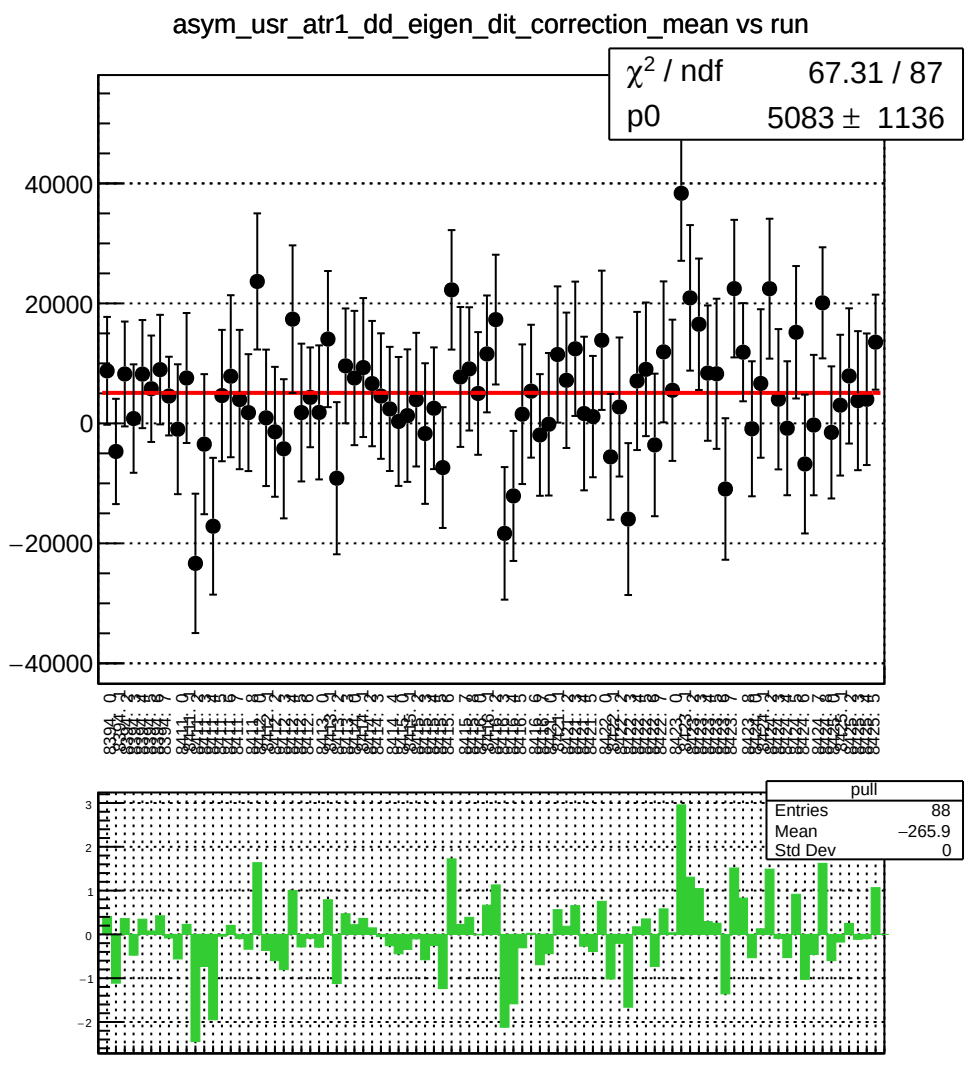

pull1D
Entries 88
Mean −0.01393
Std Dev 0.8745
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

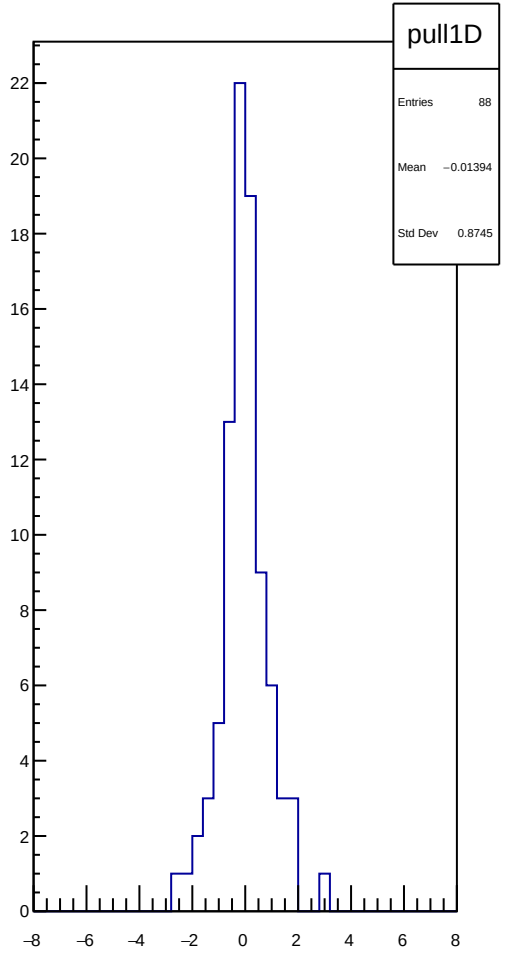

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 1.437e+04 / 87
p0 1040 ± 0.8031
1300
1200
1100
1000
900
800

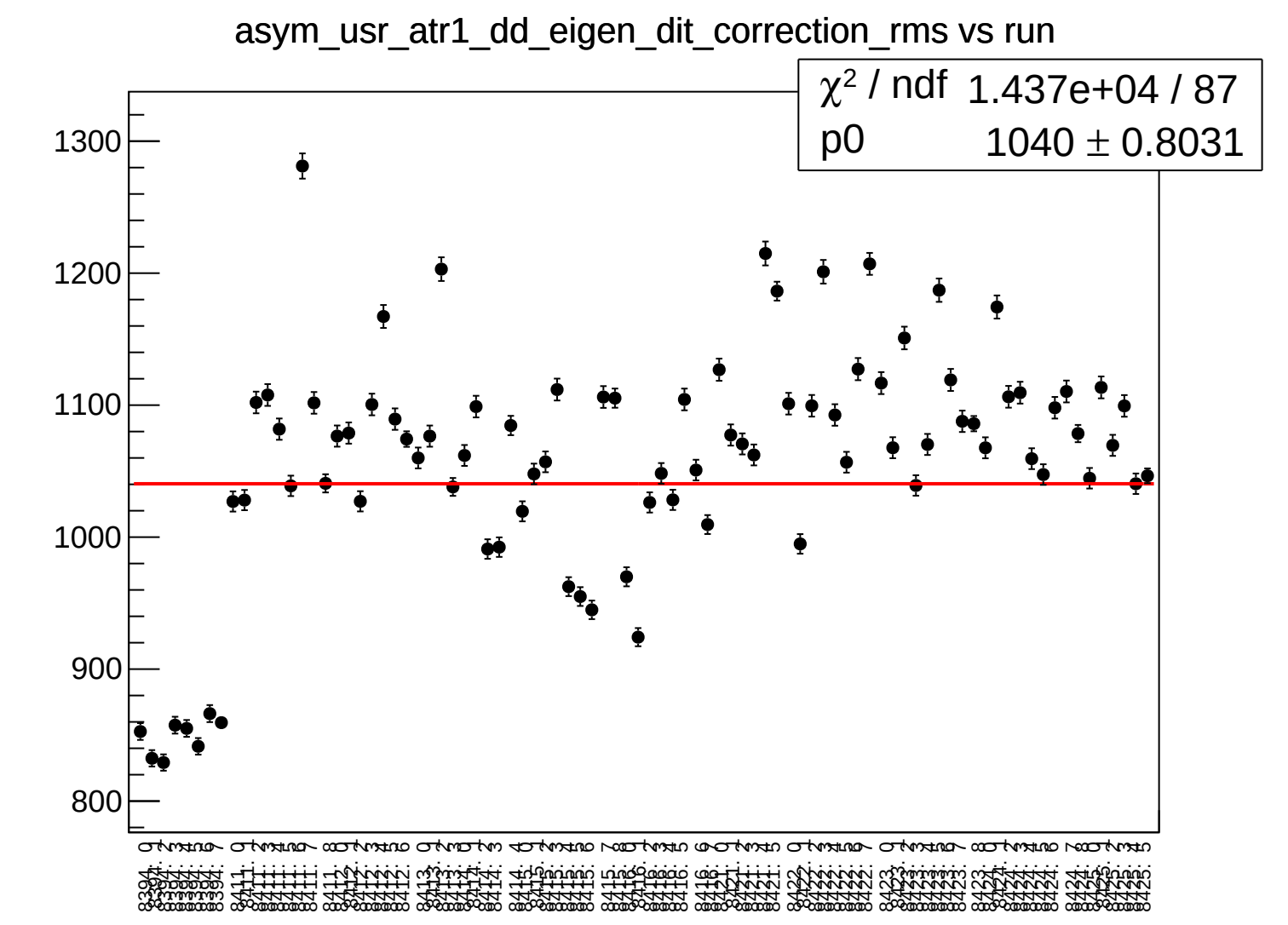

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 81.21 / 87
p0 −443.4 ± 1426
pull
Entries 88
Mean 25.04
Std Dev 21.37

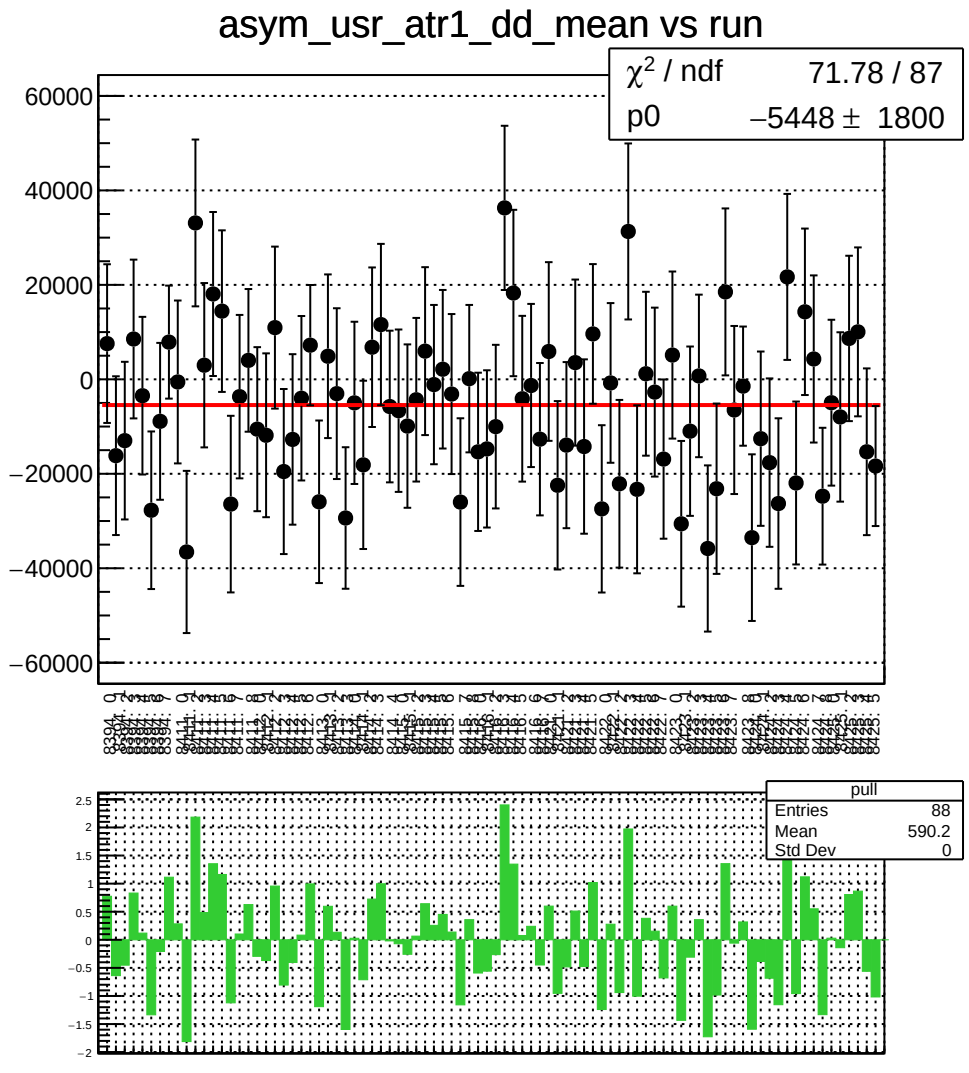

pull1D
Entries 88
Mean −0.01435
Std Dev 0.9605

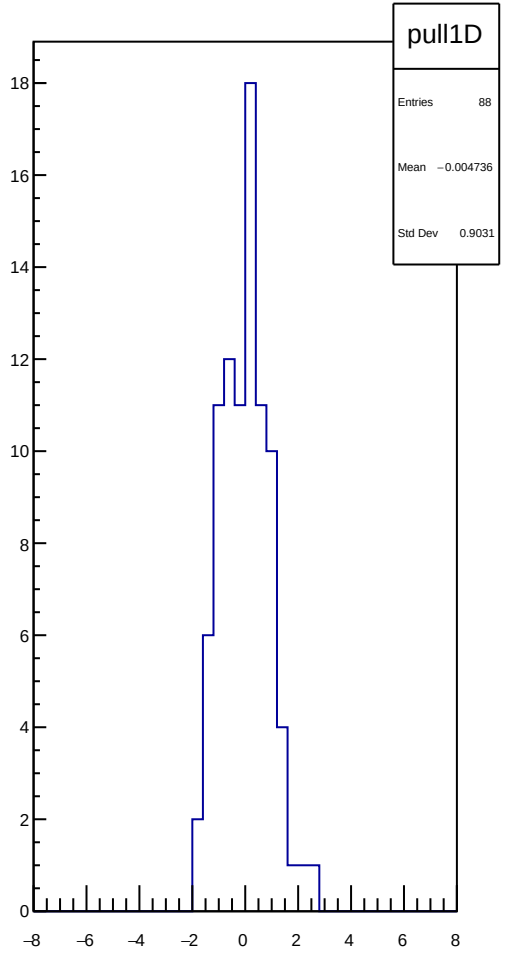

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 85.92 / 87
p0 1312 ± 1.009
1350
1340
1330
1320
1310
1300
1290
1280
1270

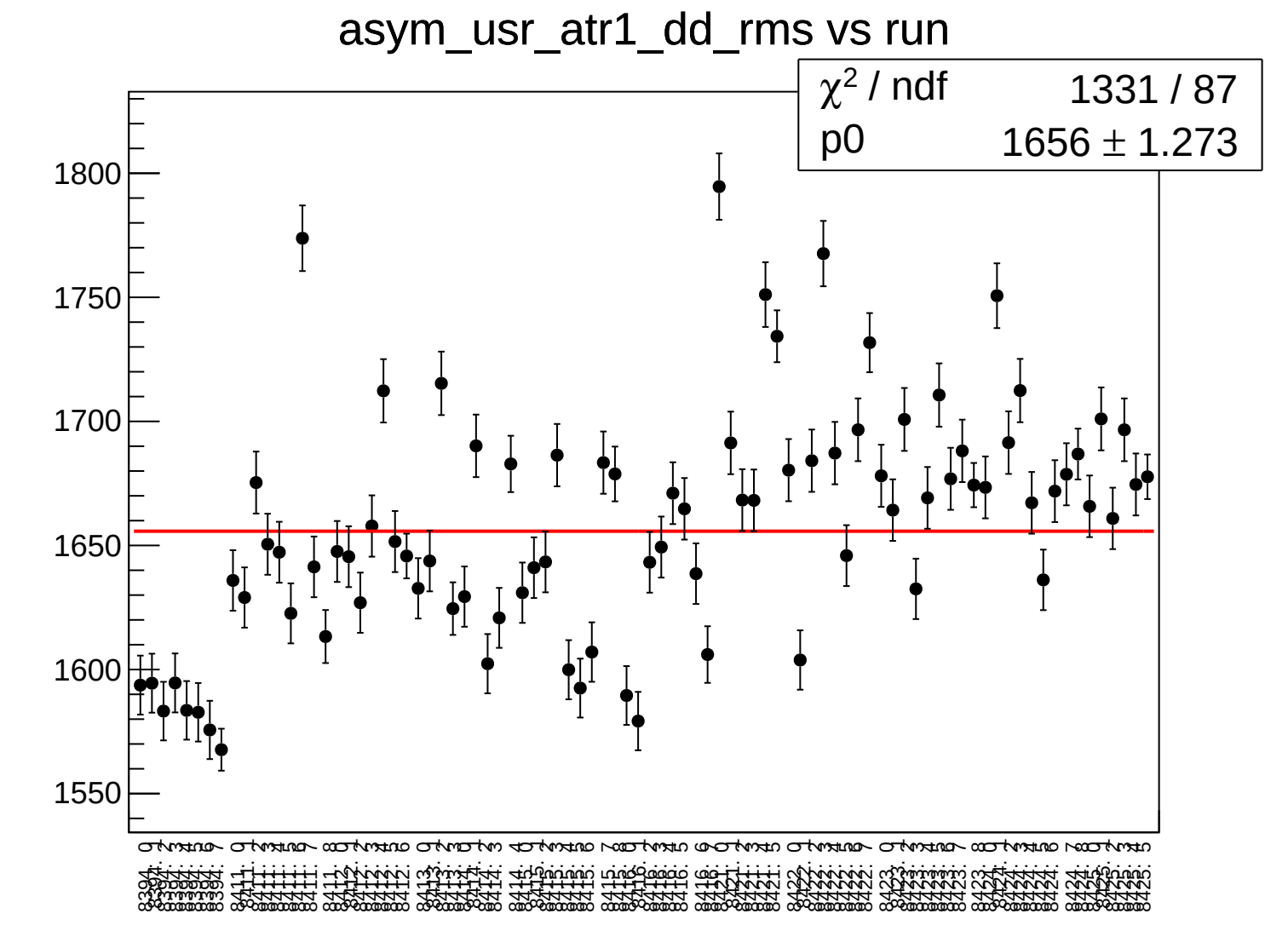

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 67.31 / 87
p0 5083 ± 1136
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −265.9
Std Dev 0
3
2
1
0
−1
−2

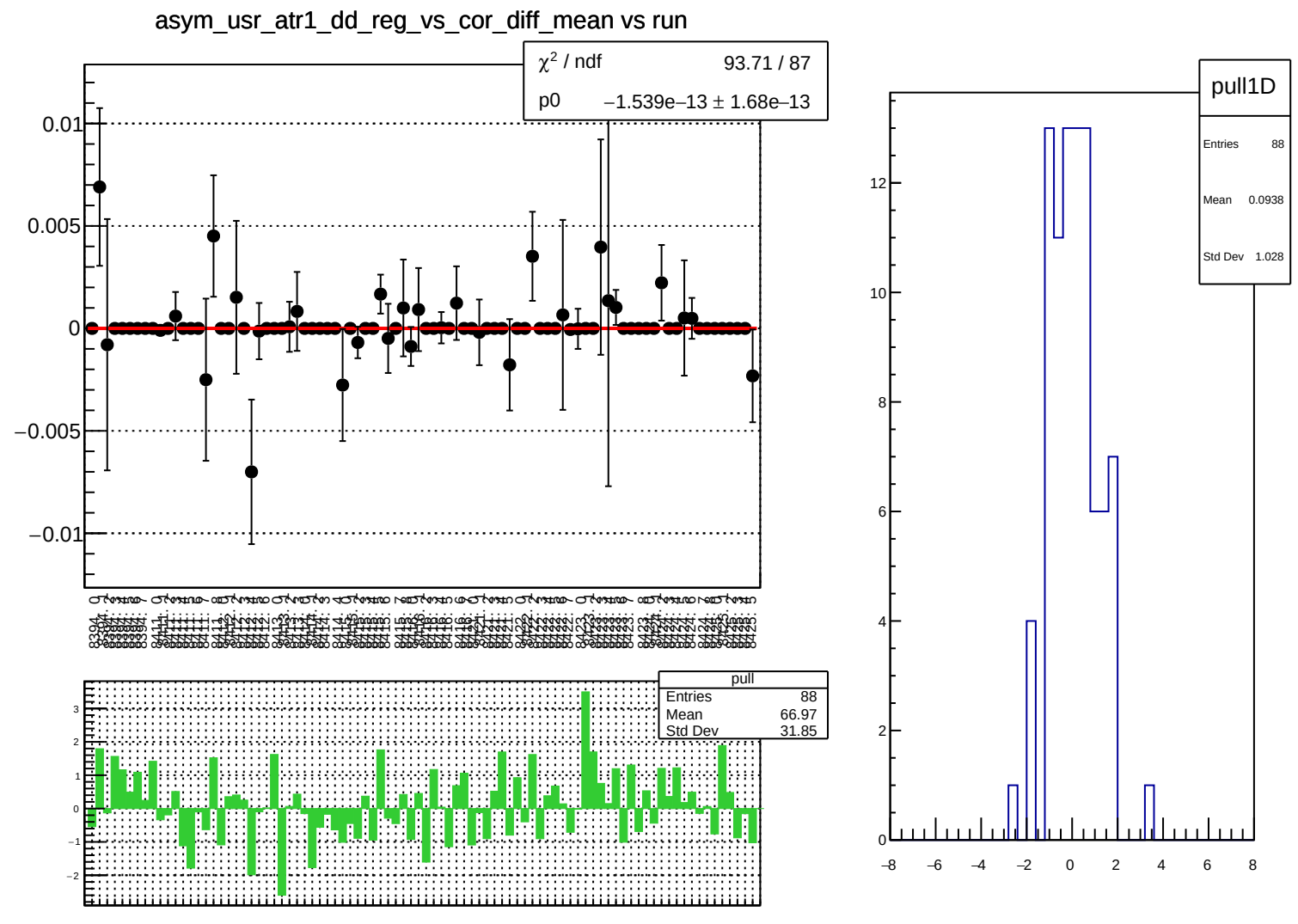

pull1D
Entries 88
Mean −0.01394
Std Dev 0.8745
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

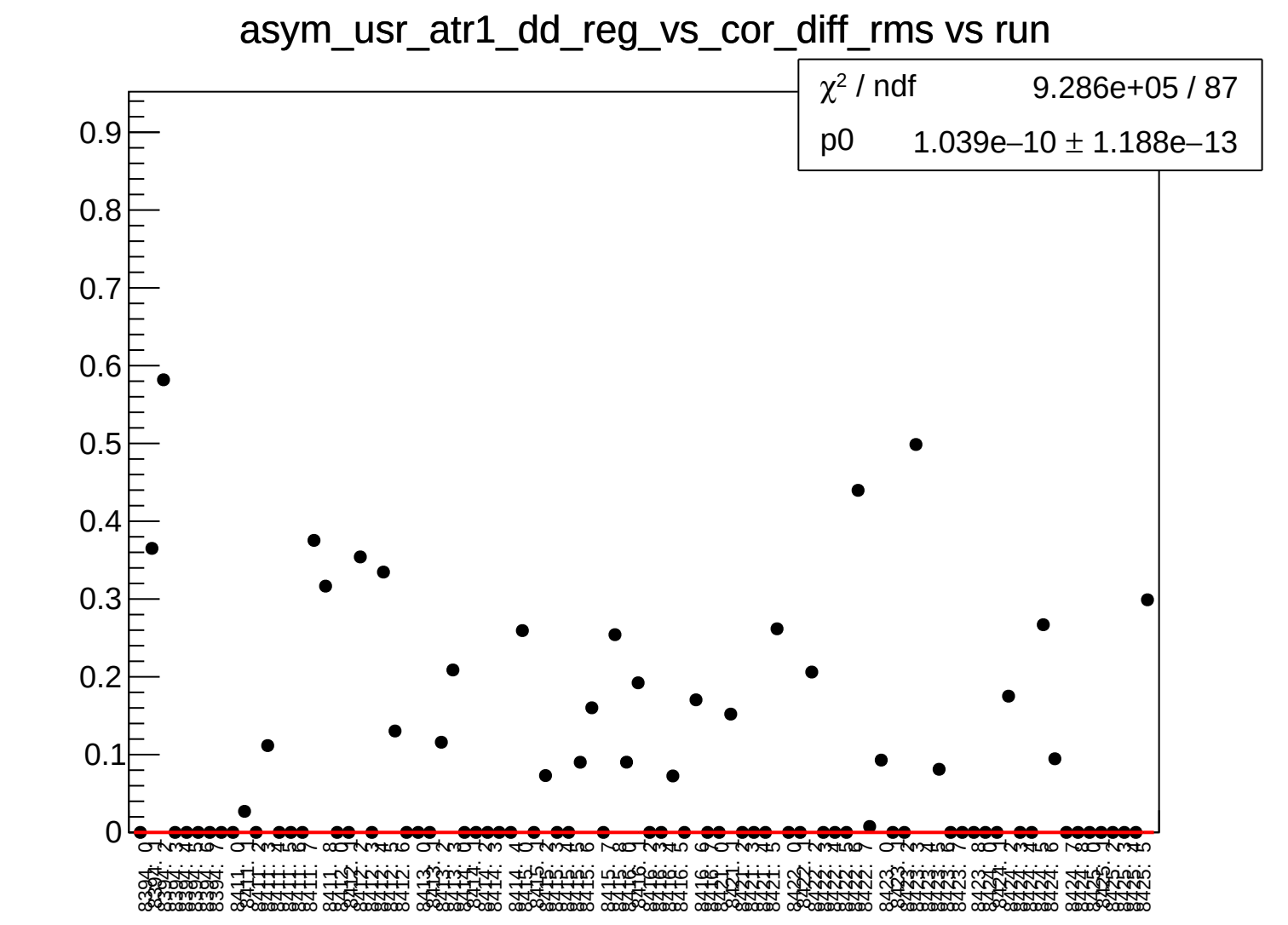

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.437e+04 / 87
p0 1040 ± 0.8031
1300
1200
1100
1000
900
800

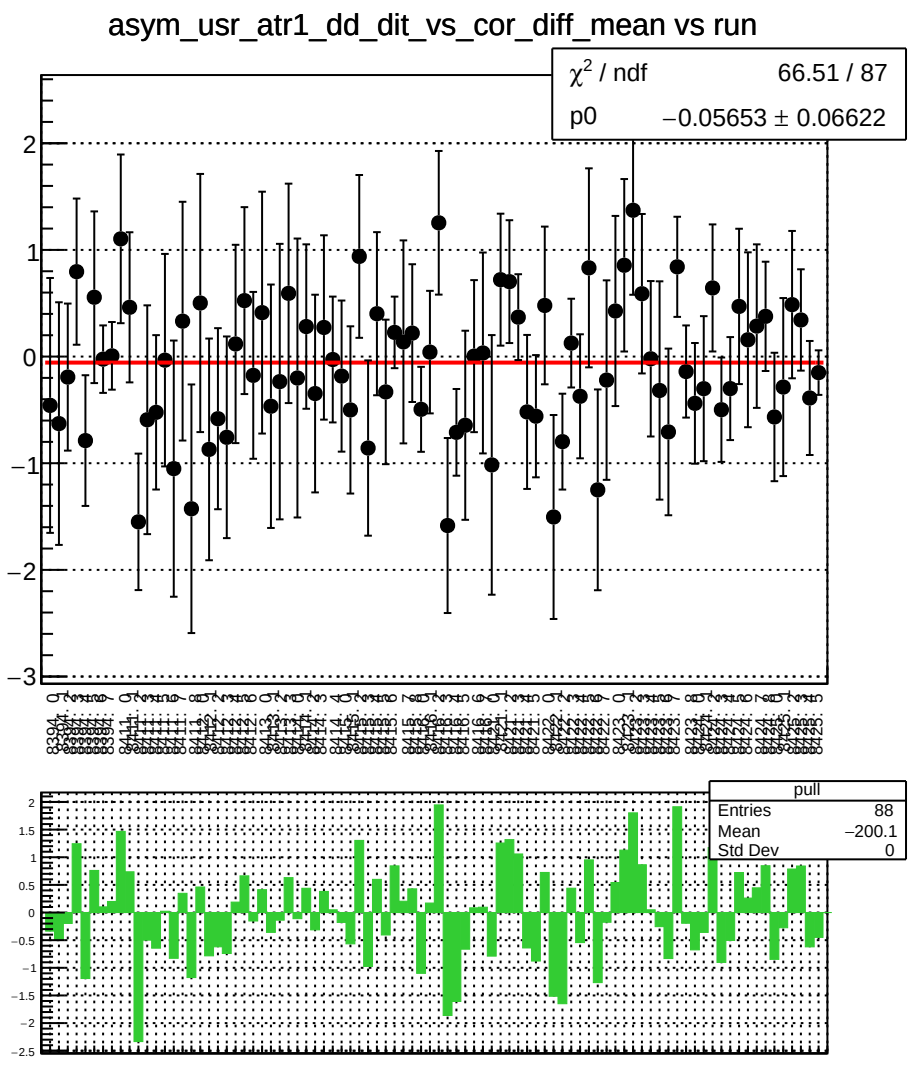

asym_usr_atr1_dd_mean vs run
χ² / ndf 71.78 / 87
p0 −5448 ± 1800
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 590.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

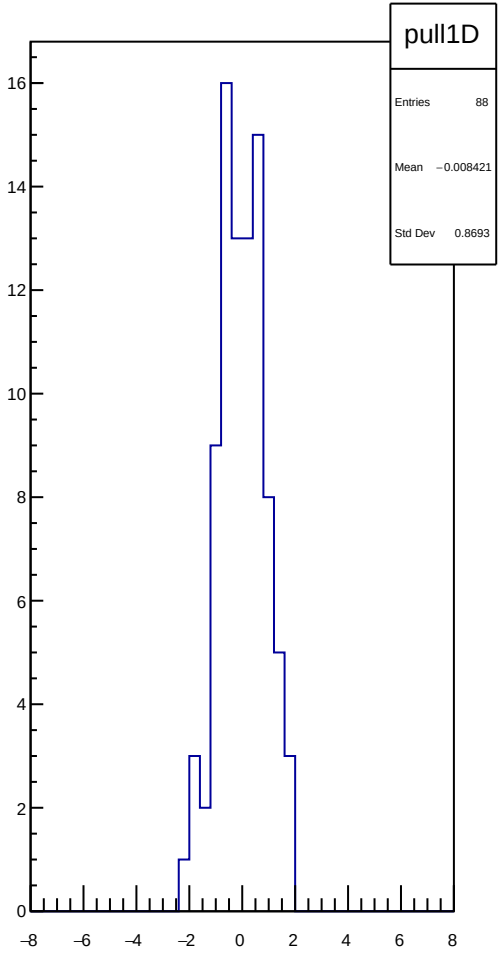

pull1D
Entries 88
Mean −0.004736
Std Dev 0.9031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

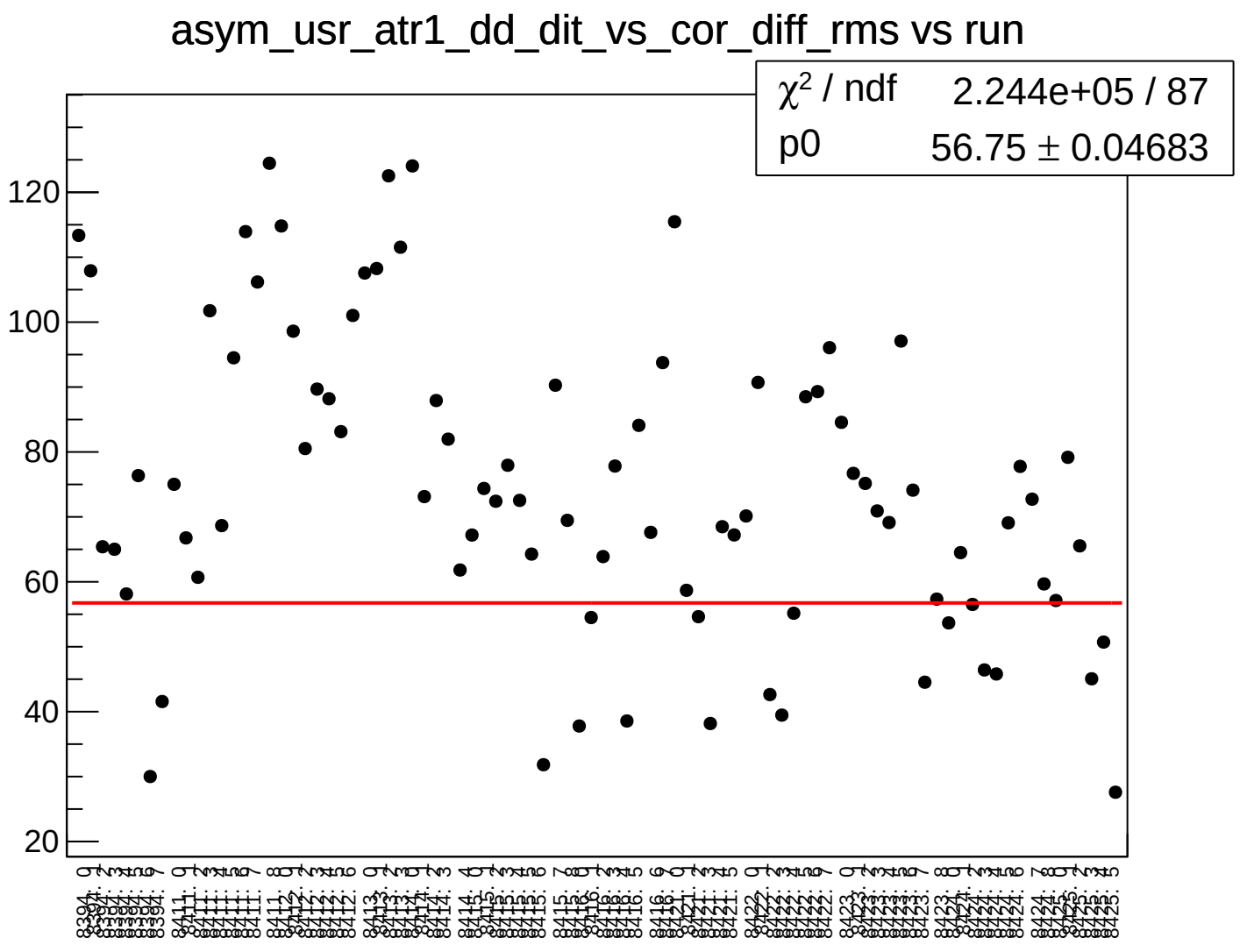

asym_usr_atr1_dd_rms vs run
χ² / ndf 1331 / 87
p0 1656 ± 1.273
1800
1750
1700
1650
1600
1550

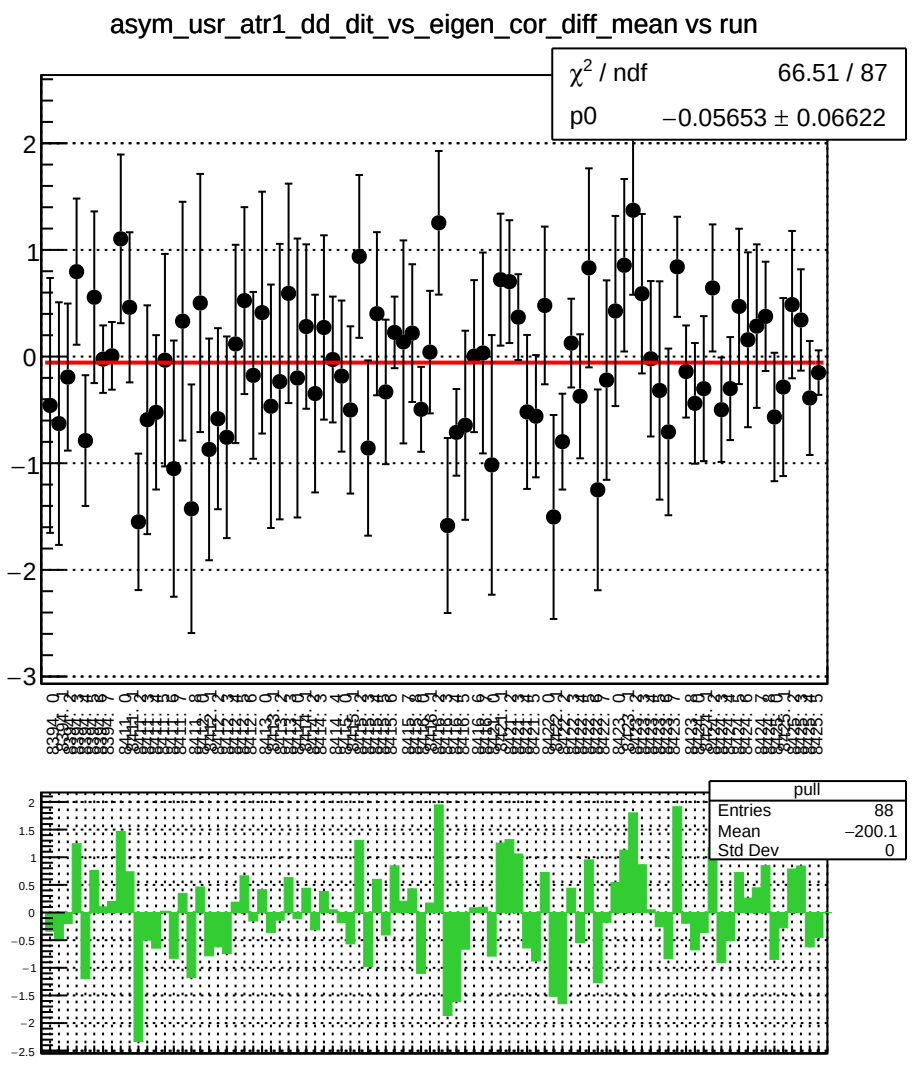

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 93.71 / 87
p0 −1.539e−13 ± 1.68e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 88
Mean 66.97
Std Dev 31.85
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.0938
Std Dev 1.028
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

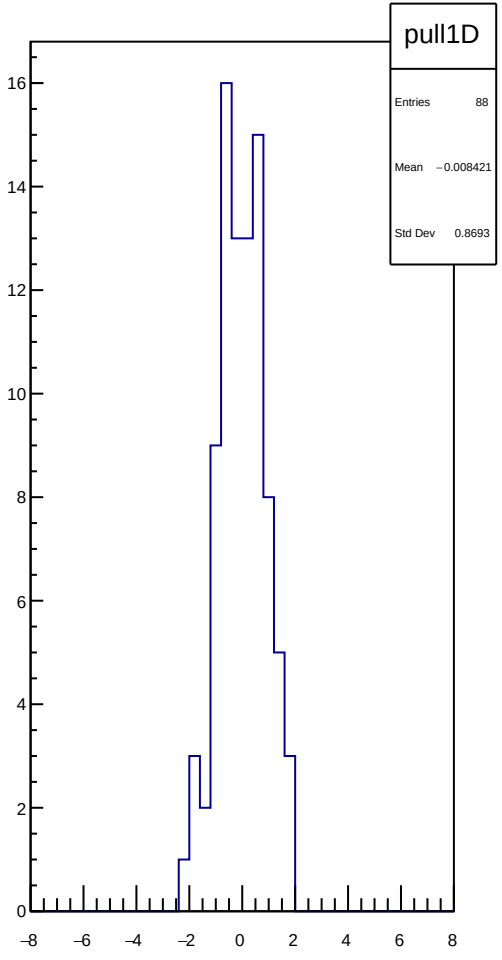

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.286e+05 / 87
p0 1.039e−10 ± 1.188e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

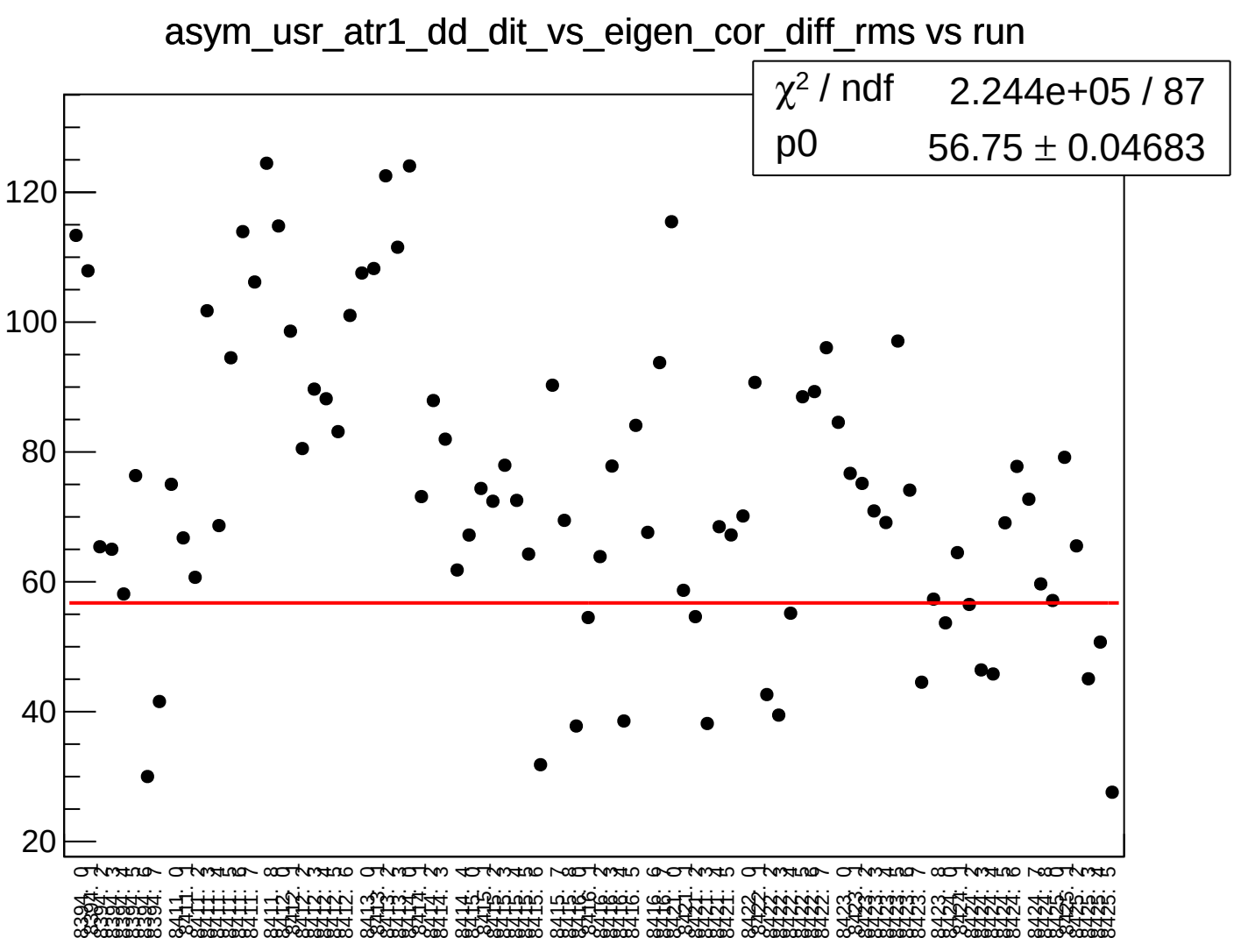

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 66.51 / 87
p0 −0.05653 ± 0.06622
pull
Entries 88
Mean −200.1
Std Dev 0

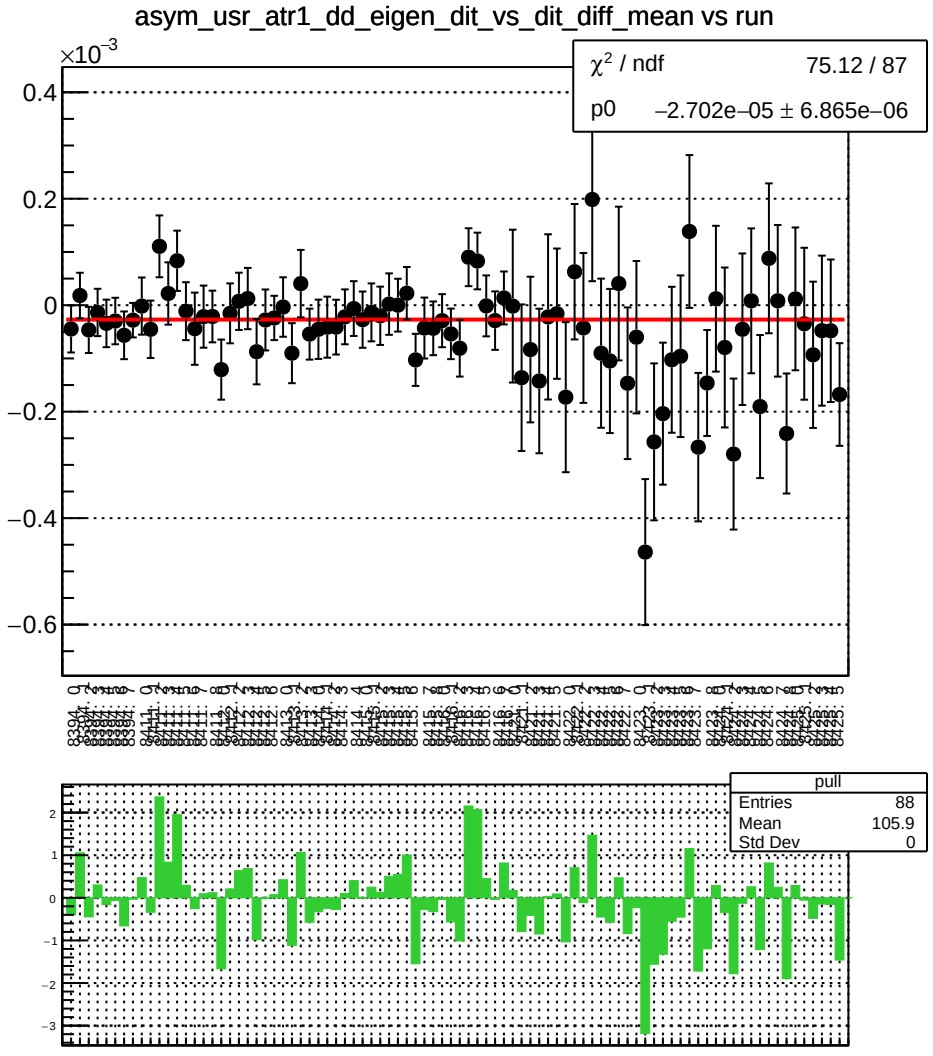

pull1D
Entries 88
Mean −0.008421
Std Dev 0.8693

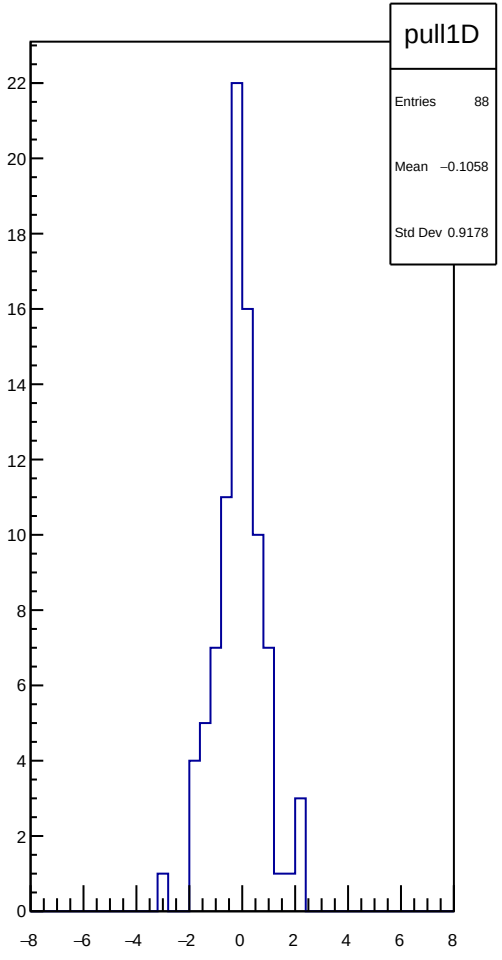

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.244e+05 / 87
p0 56.75 ± 0.04683
120
100
80
60
40
20

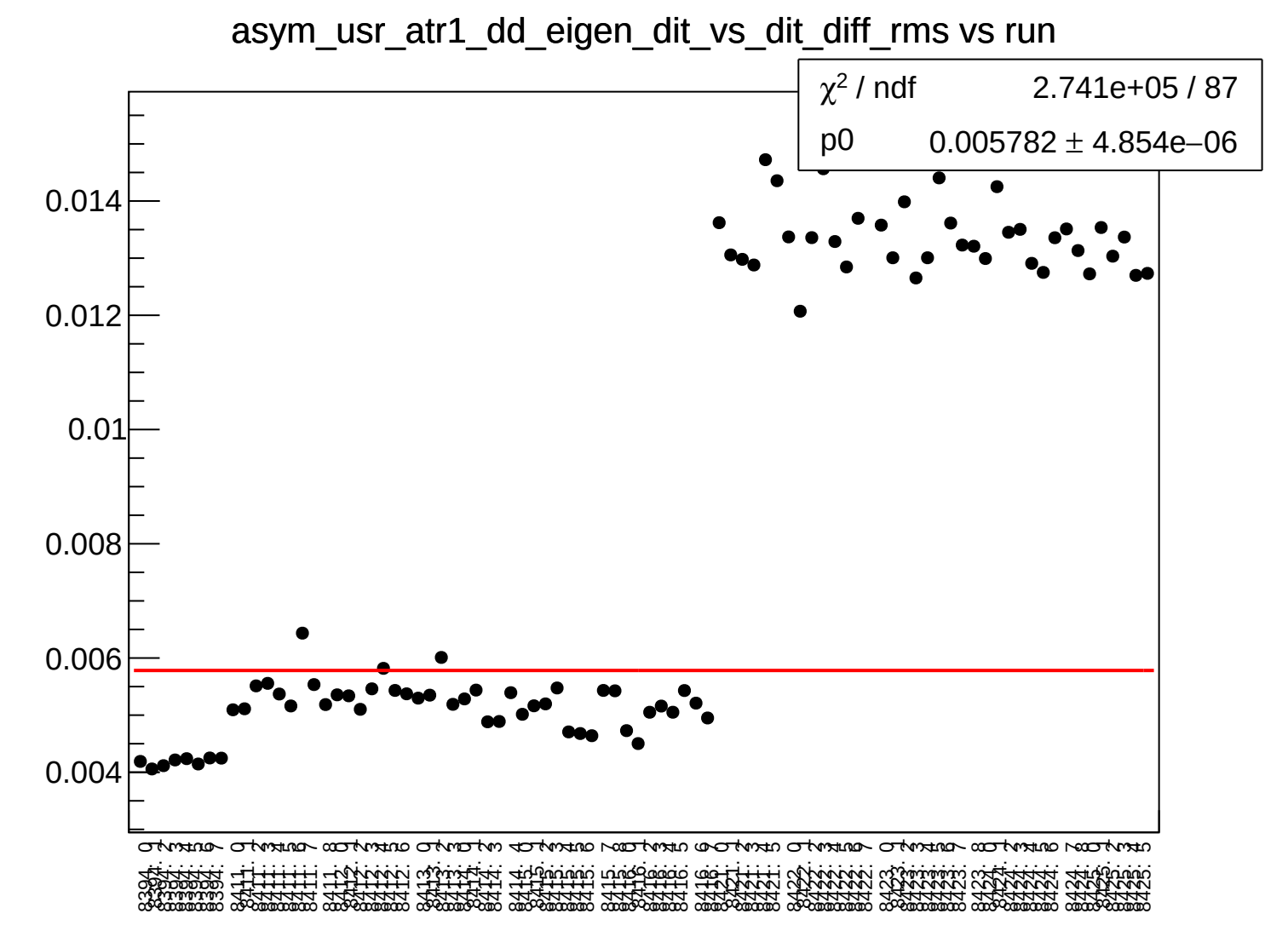

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.51 / 87
p0 −0.05653 ± 0.06622
pull
Entries 88
Mean −200.1
Std Dev 0

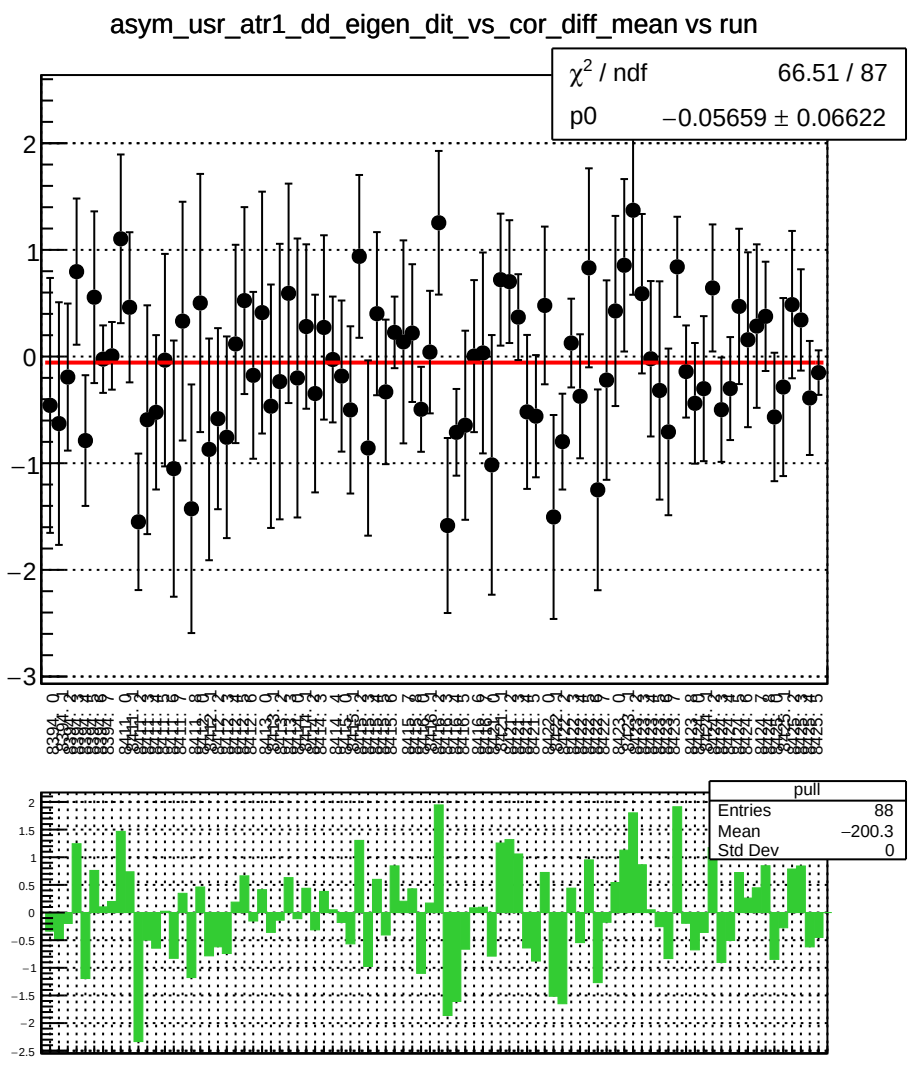

pull1D
Entries 88
Mean −0.008421
Std Dev 0.8693

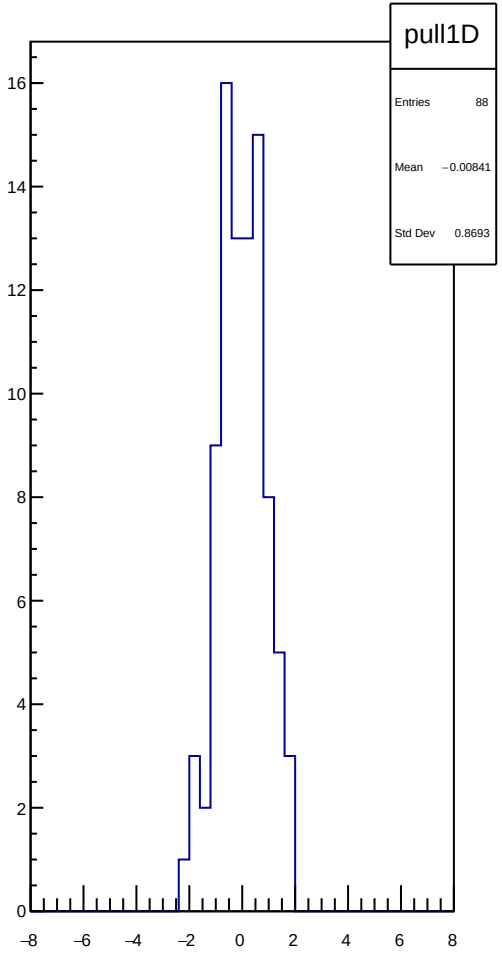

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.244e+05 / 87
p0 56.75 ± 0.04683
120
100
80
60
40
20

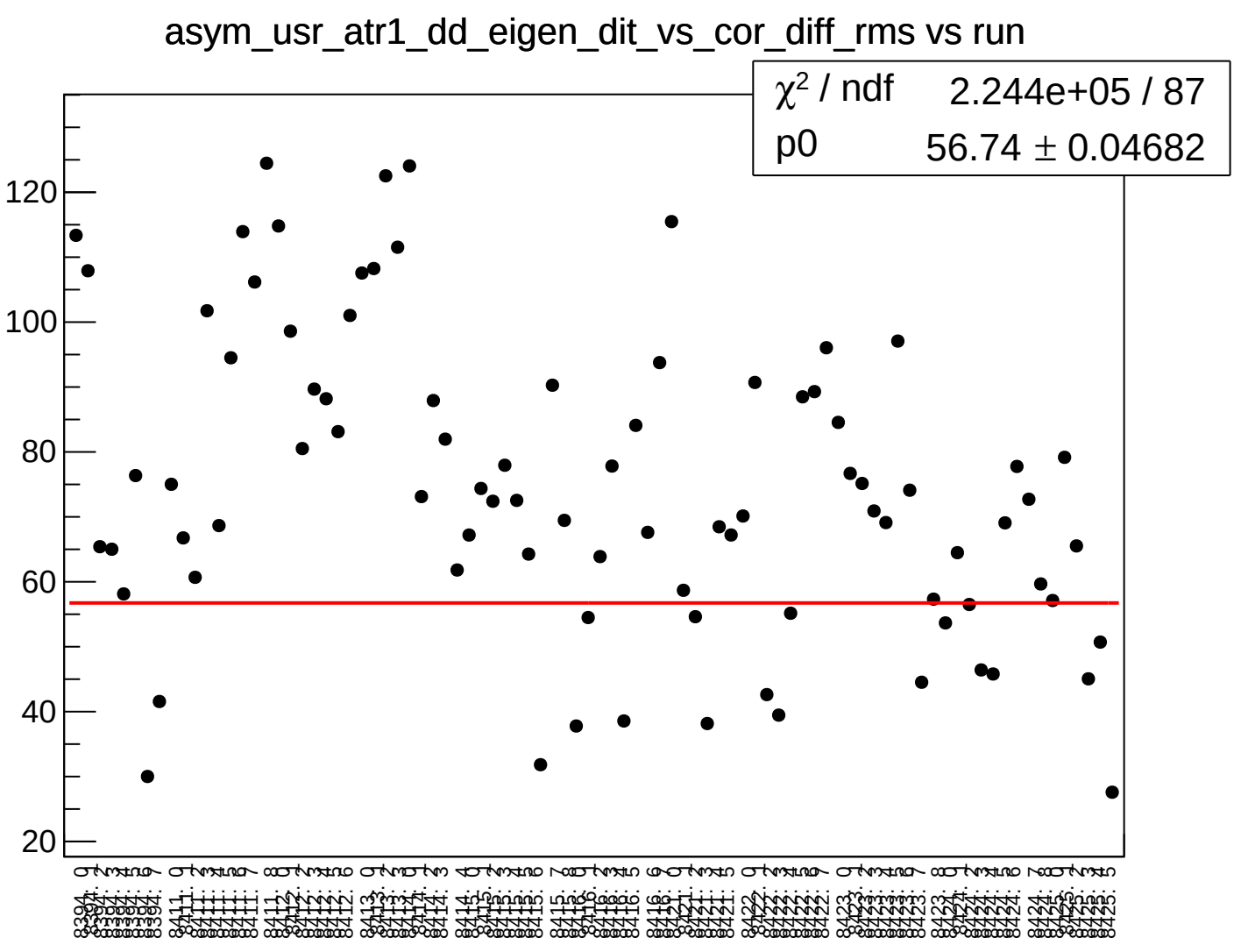

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 75.12 / 87
p0 −2.702e−05 ± 6.865e−06
pull
Entries 88
Mean 105.9
Std Dev 0

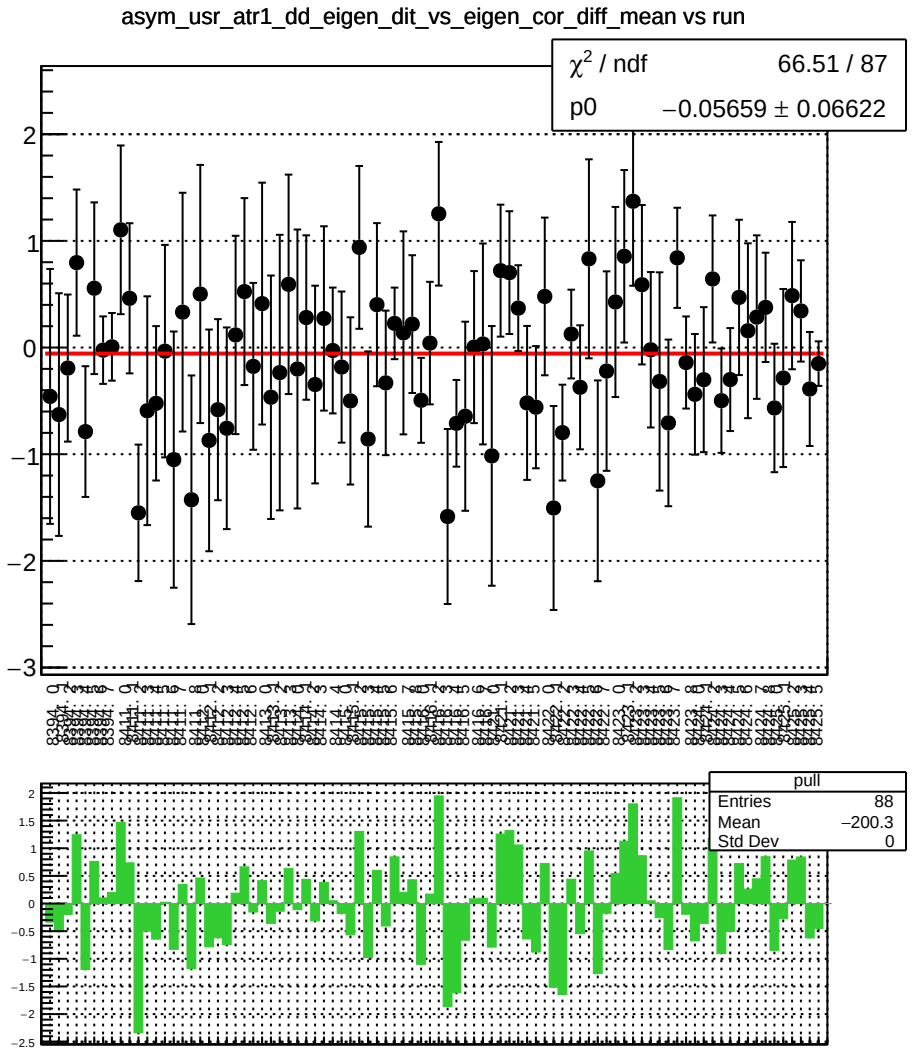

pull1D
Entries 88
Mean −0.1058
Std Dev 0.9178

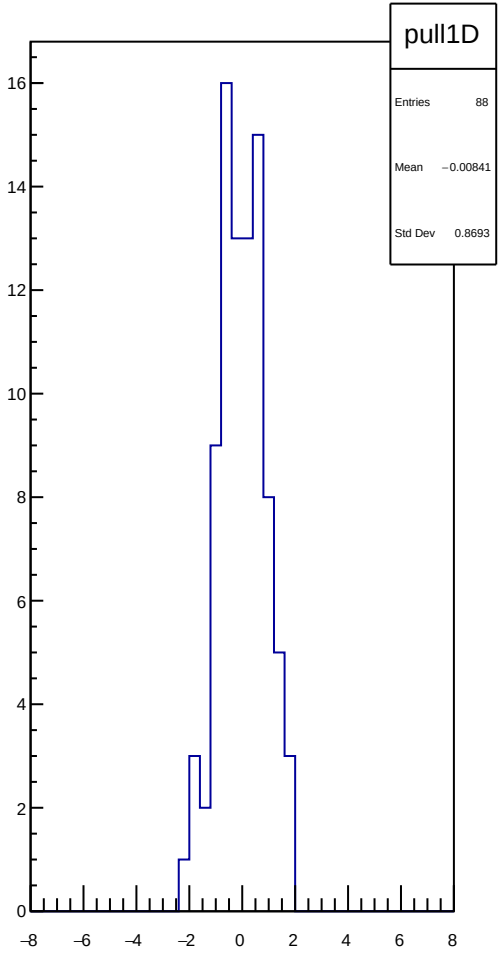

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.741e+05 / 87
p0 0.005782 ± 4.854e−06
0.014
0.012
0.01
0.008
0.006
0.004

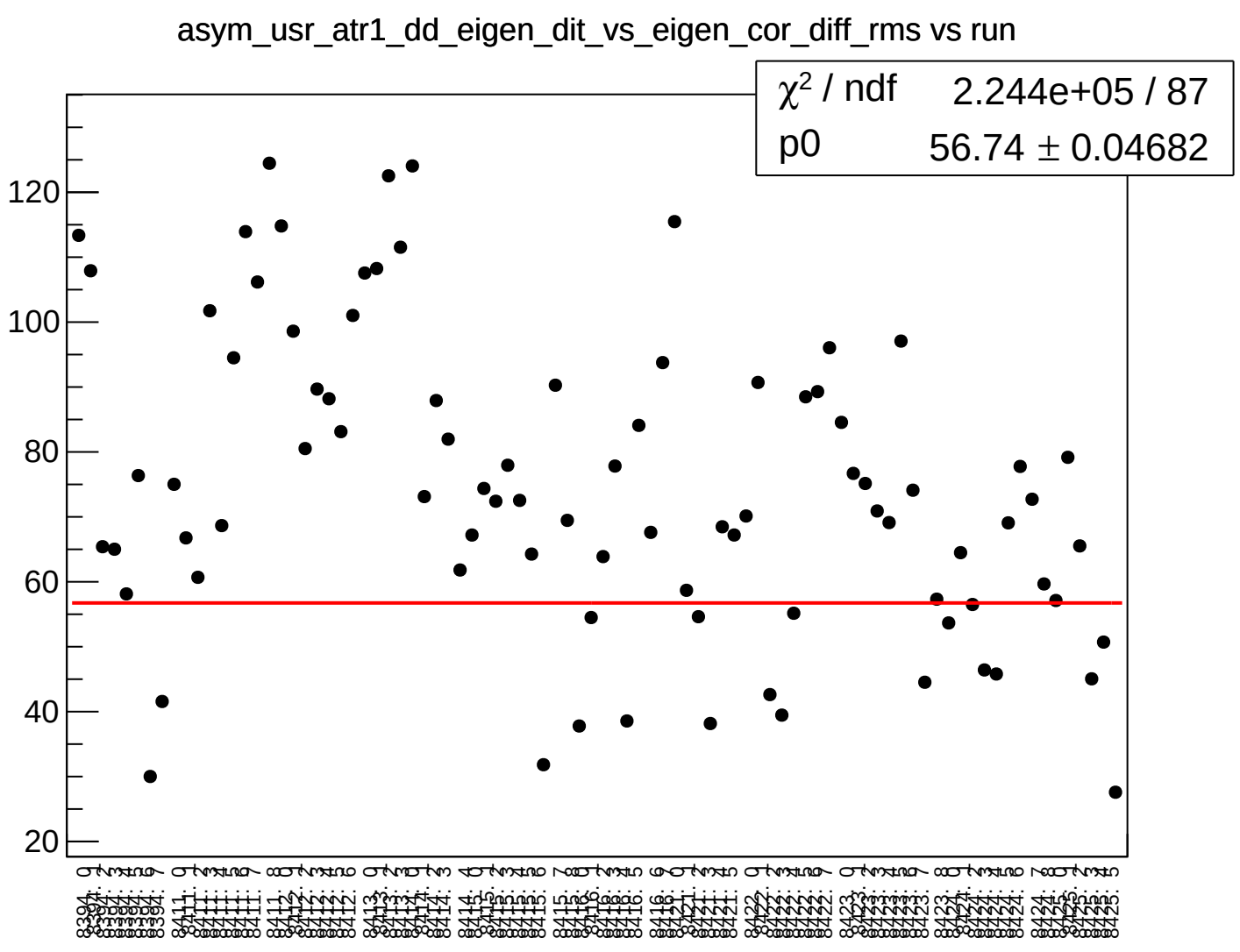

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 66.51 / 87
p0 −0.05659 ± 0.06622
pull
Entries 88
Mean −200.3
Std Dev 0

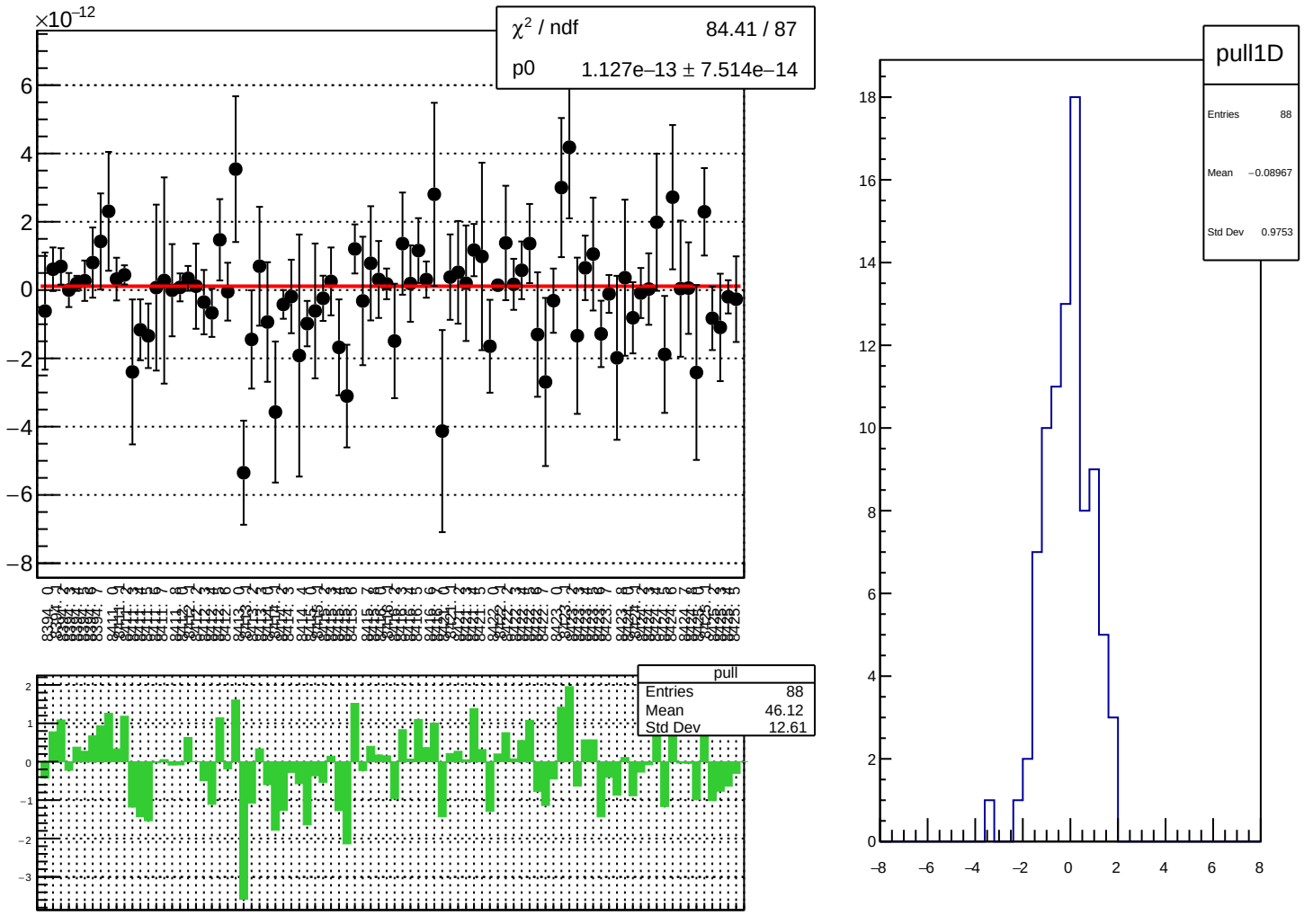

pull1D
Entries 88
Mean −0.00841
Std Dev 0.8693

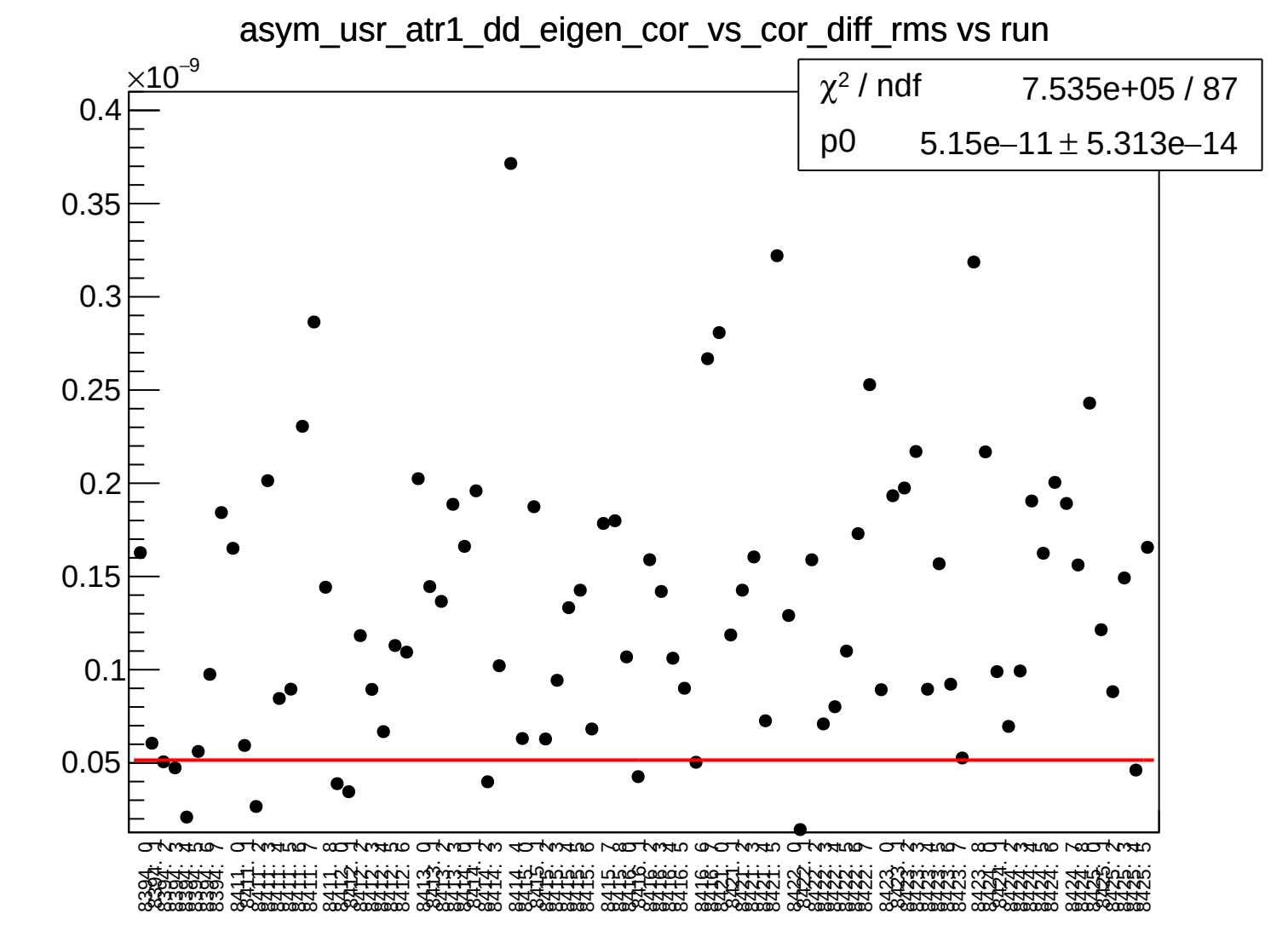

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.244e+05 / 87
p0 56.74 ± 0.04682
120
100
80
60
40
20

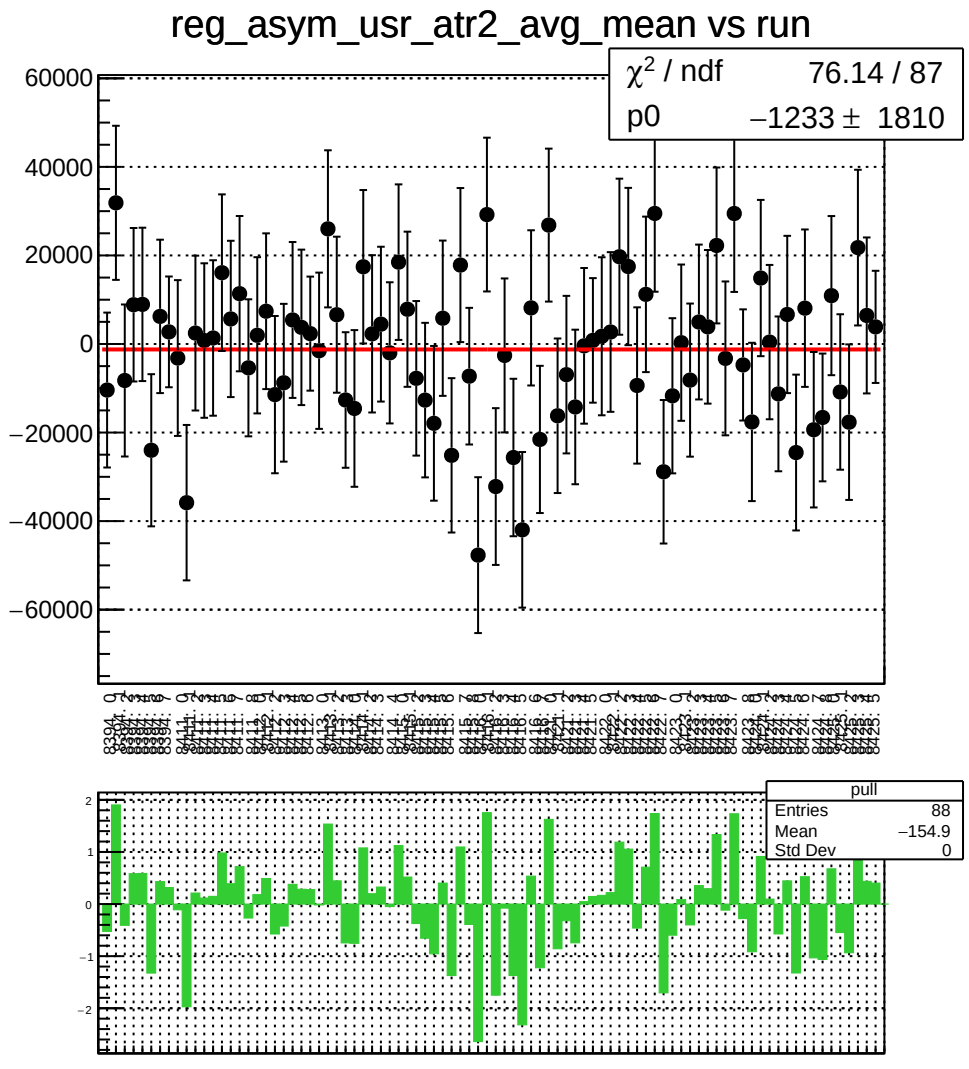

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.51 / 87
p0 −0.05659 ± 0.06622
pull
Entries 88
Mean −200.3
Std Dev 0

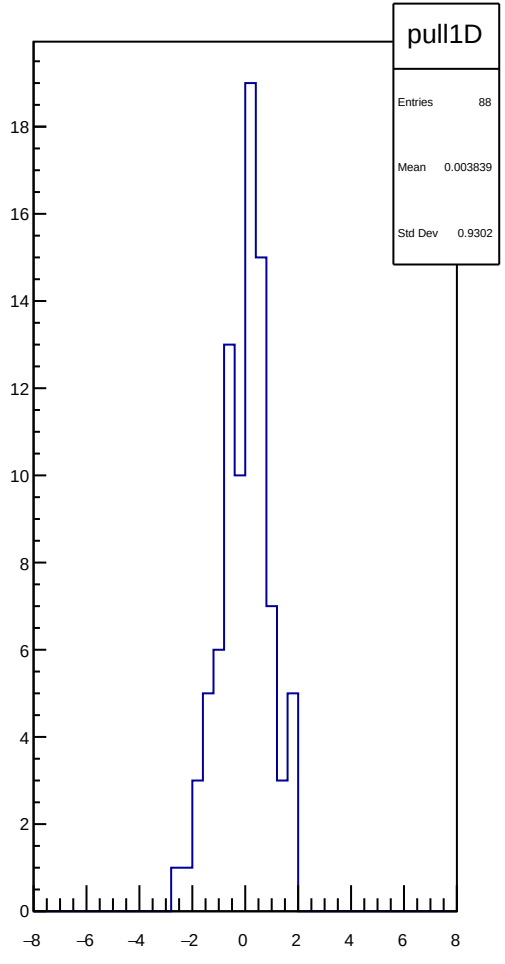

pull1D
Entries 88
Mean −0.00841
Std Dev 0.8693

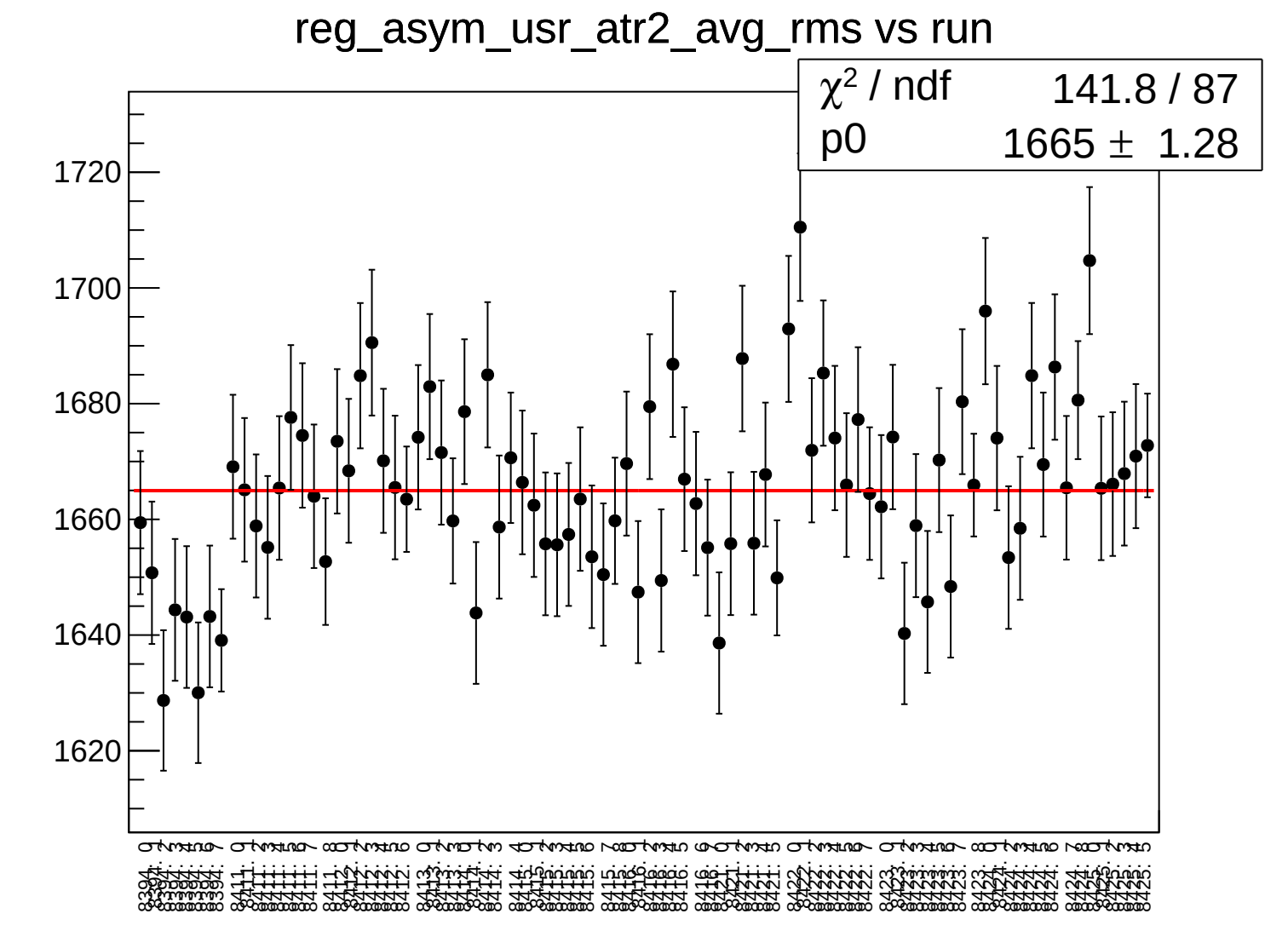

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.244e+05 / 87
p0 56.74 ± 0.04682
120
100
80
60
40
20

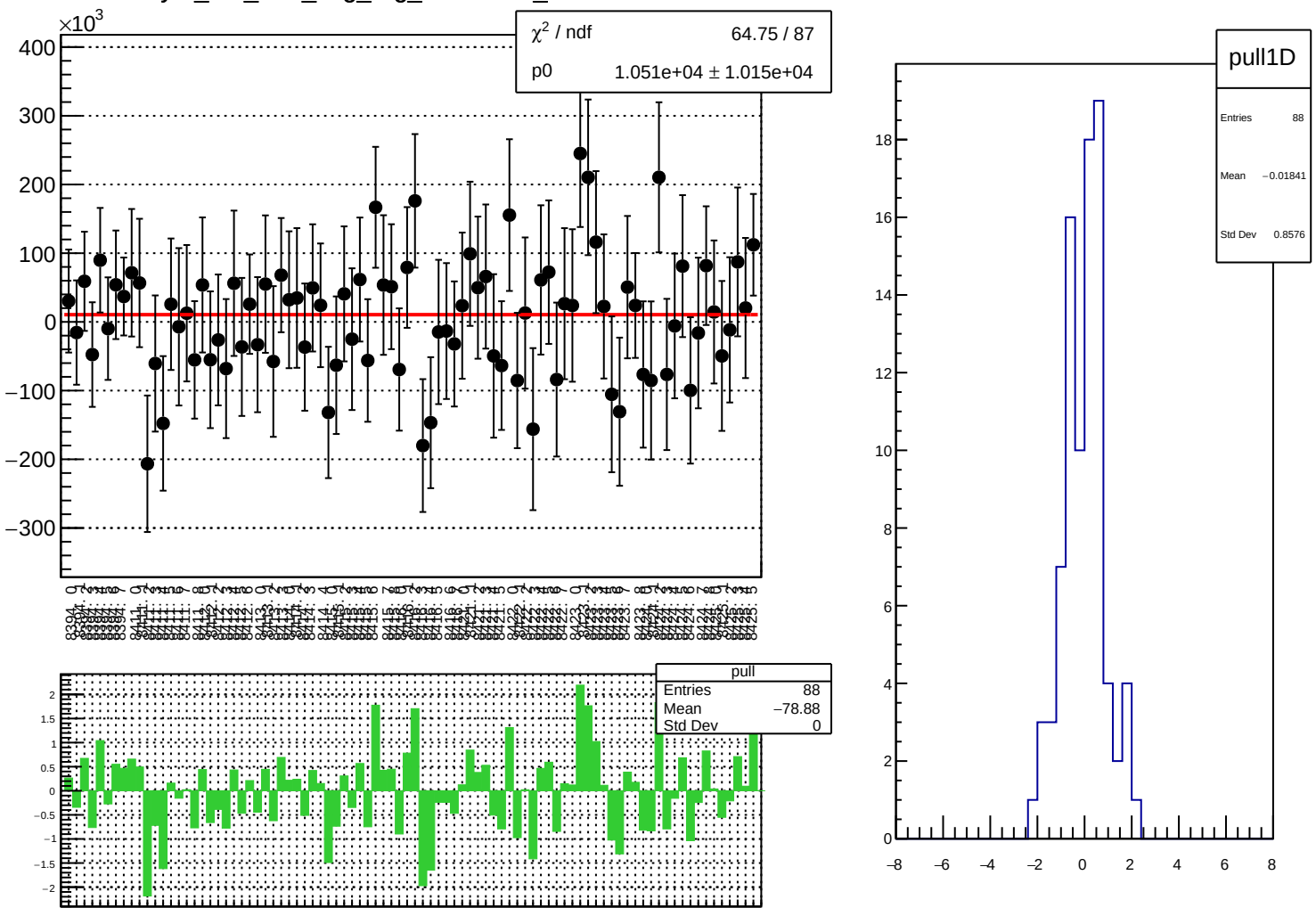

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.41 / 87
p0 1.127e−13 ± 7.514e−14
pull
Entries 88
Mean 46.12
Std Dev 12.61
pull1D
Entries 88
Mean −0.08967
Std Dev 0.9753

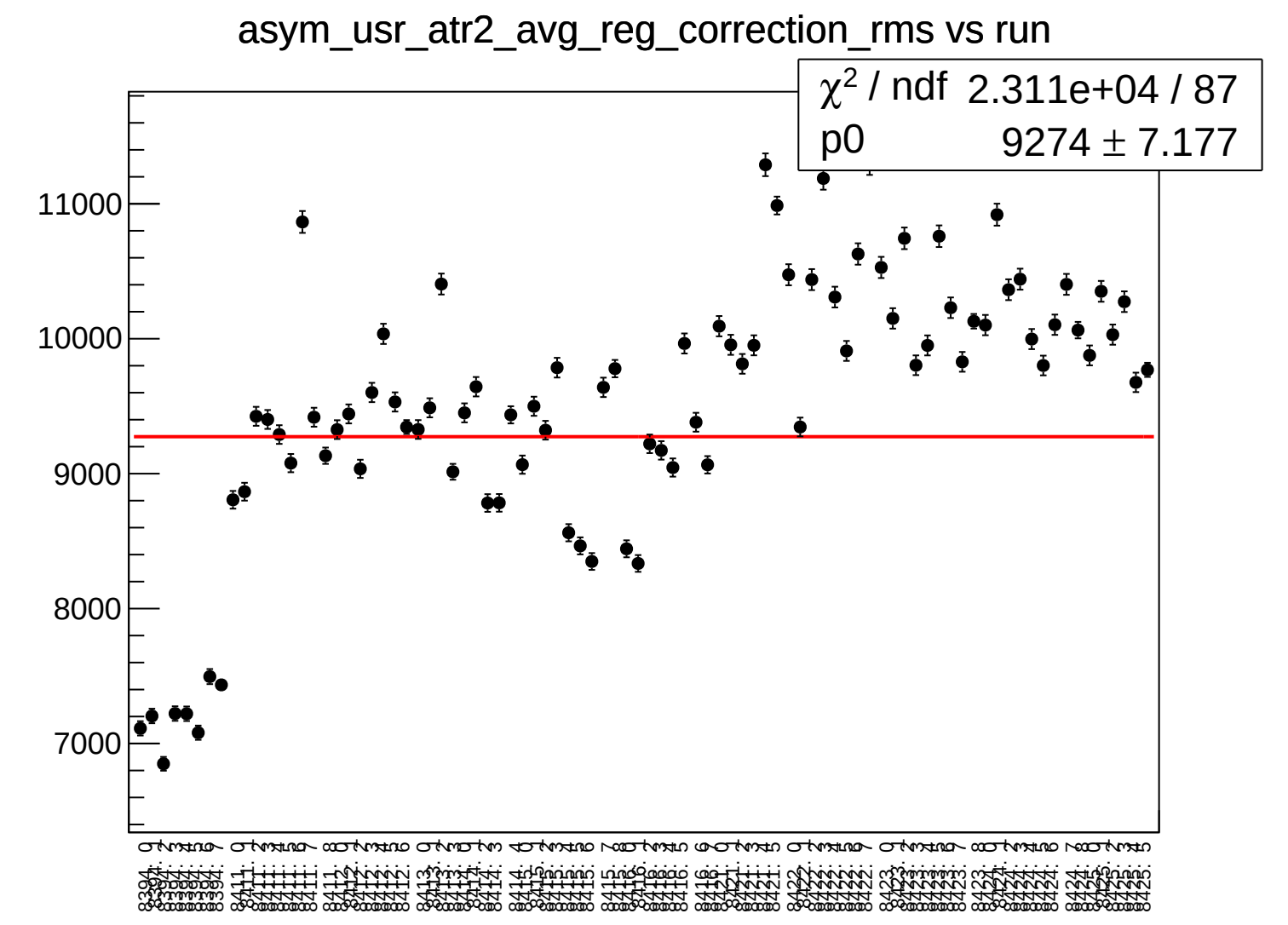

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.535e+05 / 87
p0 5.15e−11 ± 5.313e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

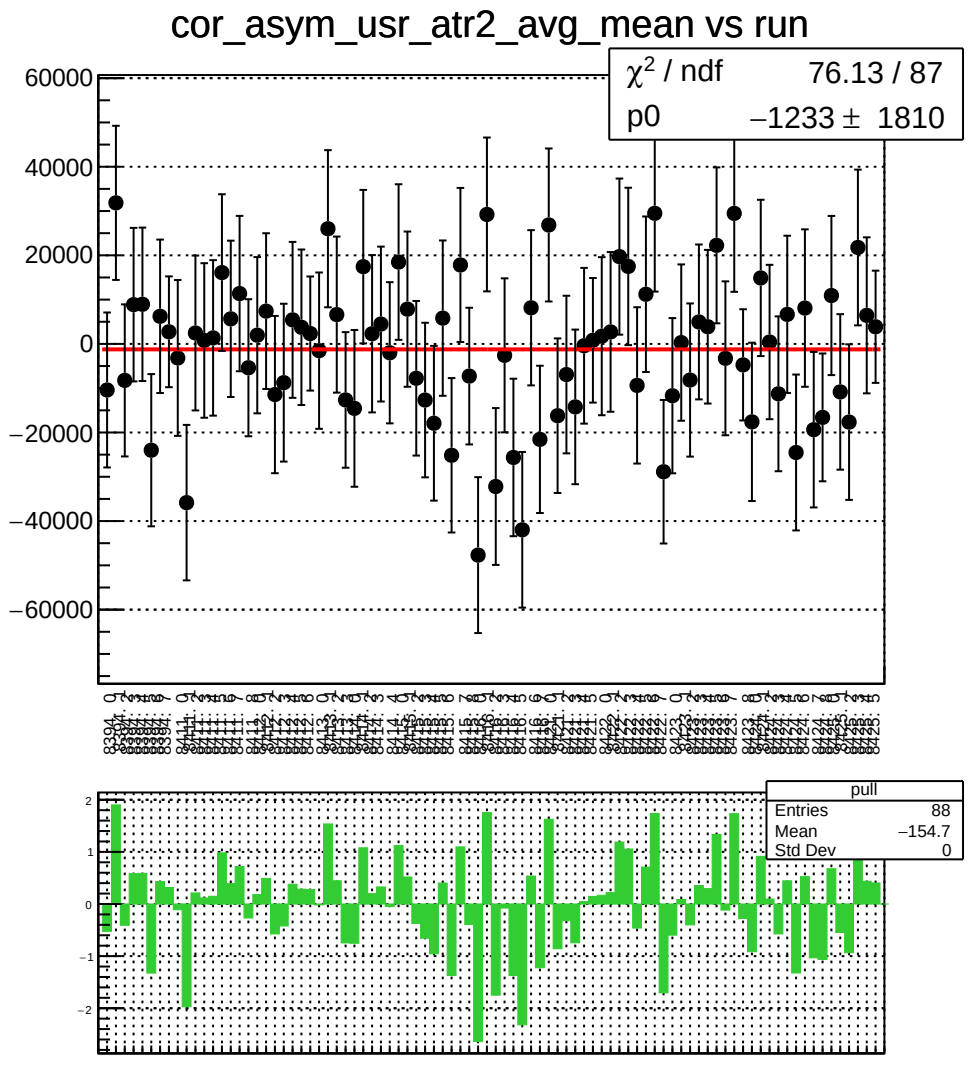

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 76.14 / 87
p0 −1233 ± 1810
pull
Entries 88
Mean −154.9
Std Dev 0

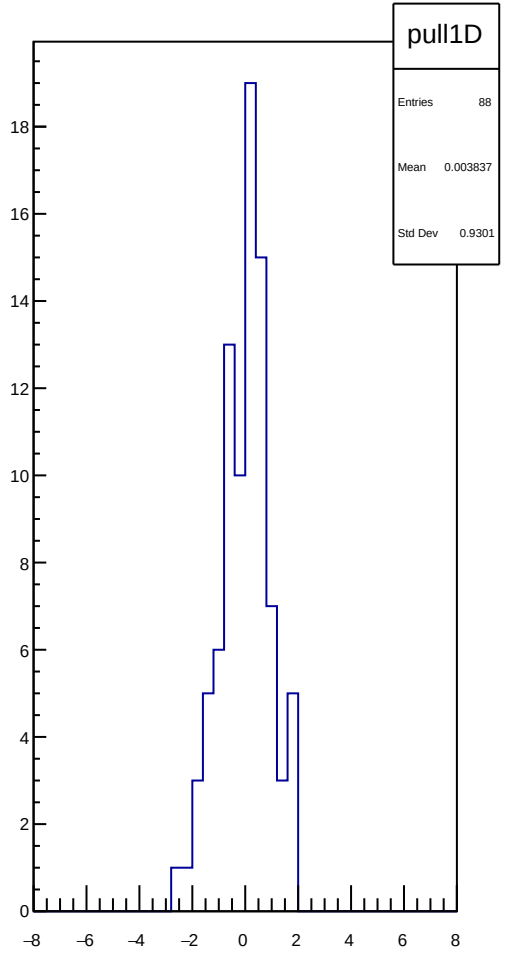

pull1D
Entries 88
Mean 0.003839
Std Dev 0.9302

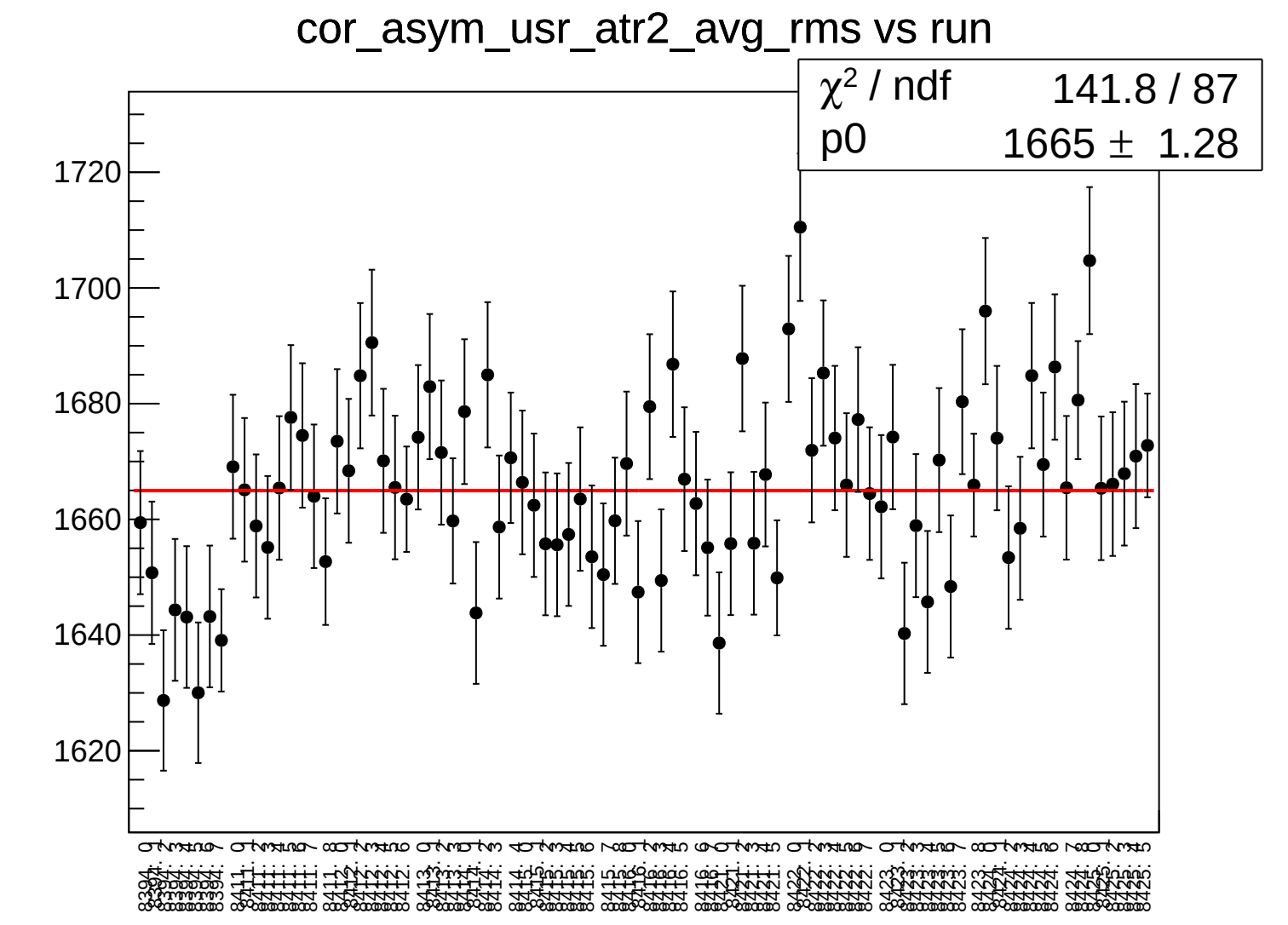

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 141.8 / 87
p0 1665 ± 1.28
1720
1700
1680
1660
1640
1620

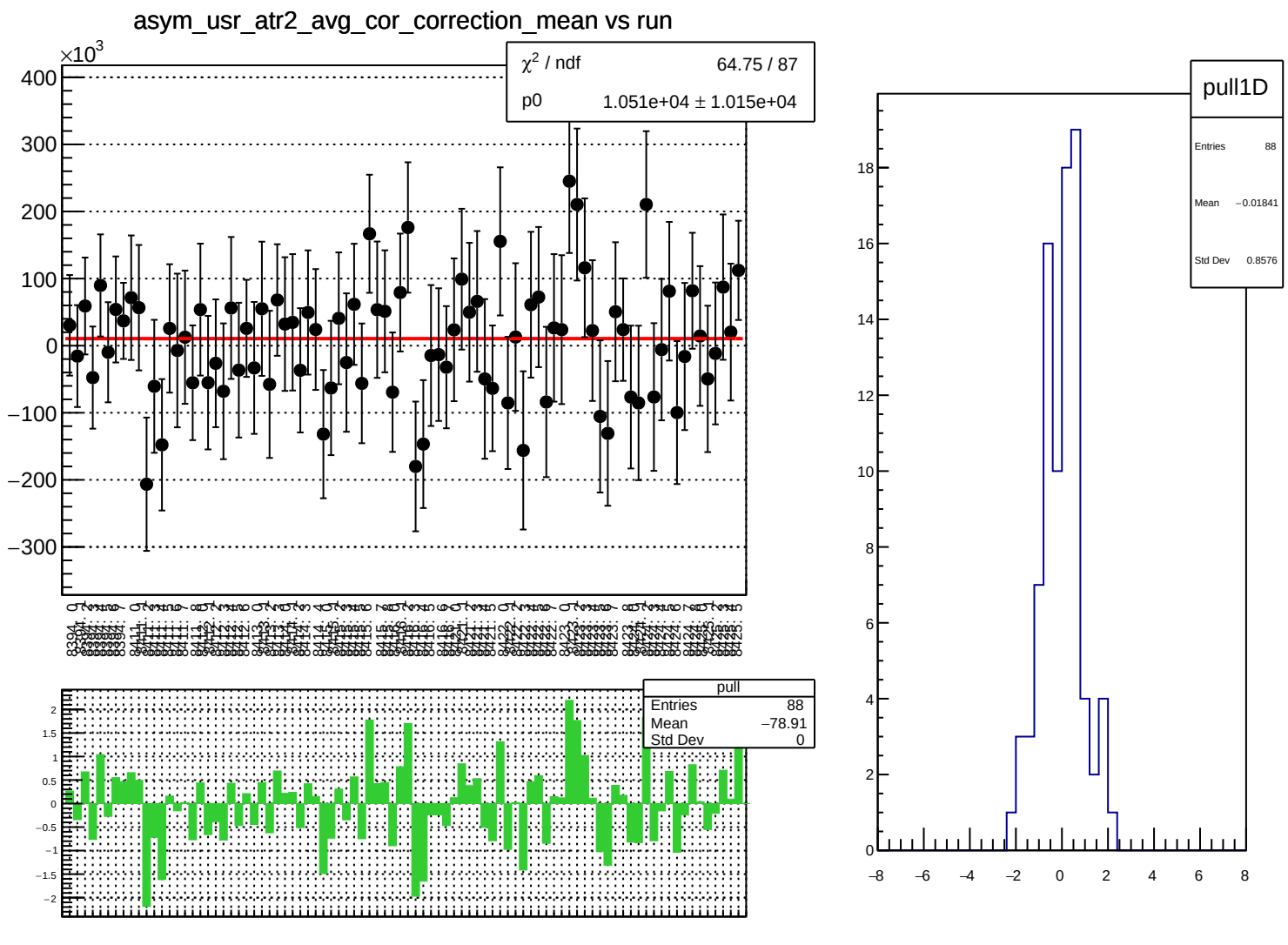

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 64.75 / 87
p0 1.051e+04 ± 1.015e+04
pull
Entries 88
Mean −78.88
Std Dev 0
pull1D
Entries 88
Mean −0.01841
Std Dev 0.8576

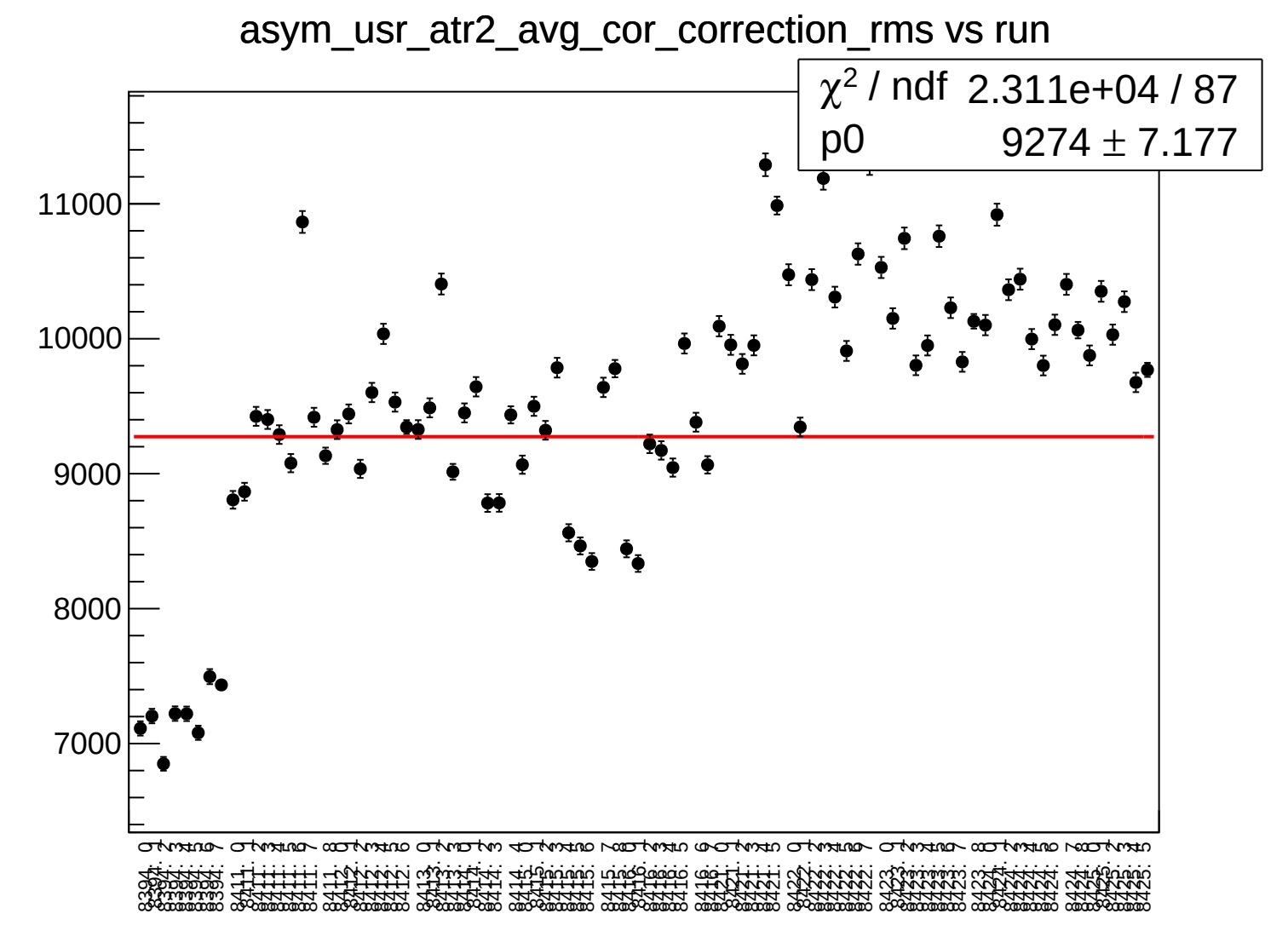

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 2.311e+04 / 87
p0 9274 ± 7.177
11000
10000
9000
8000
7000

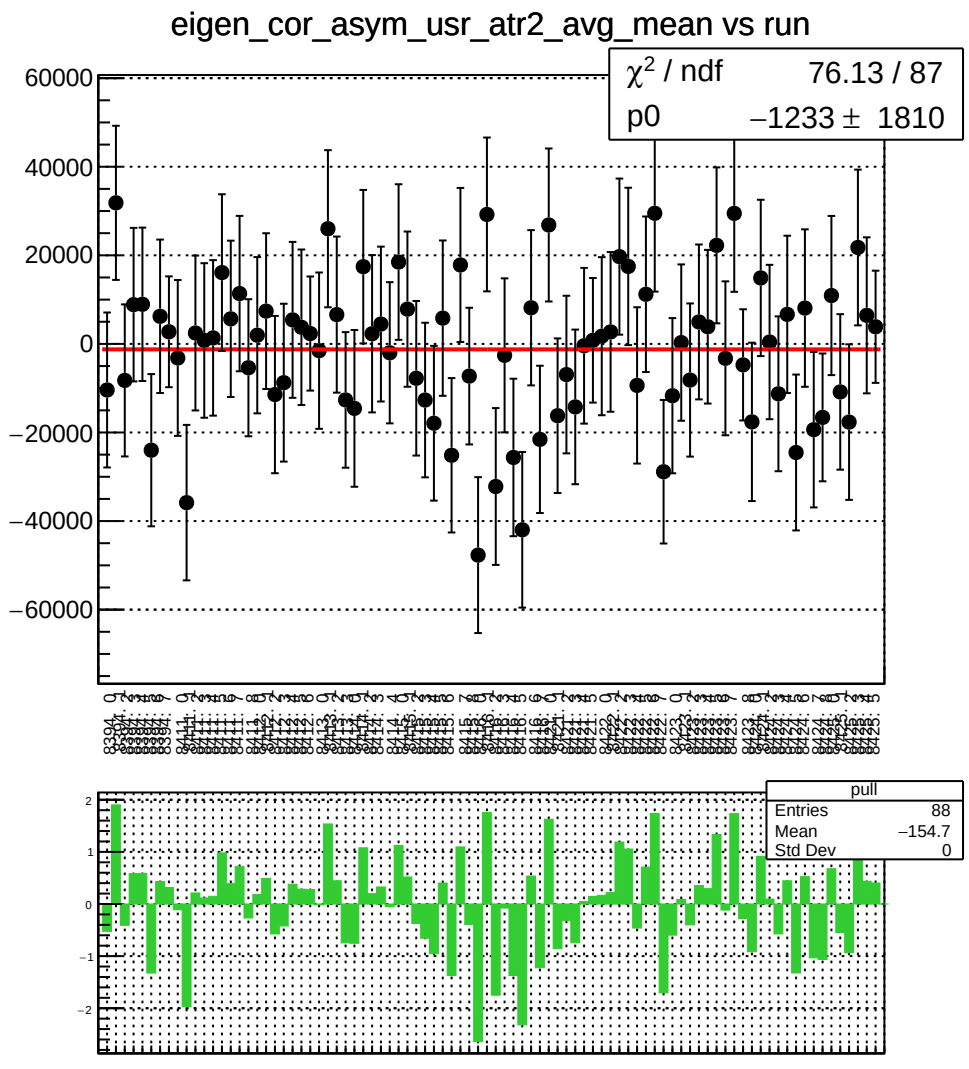

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 76.13 / 87
p0 −1233 ± 1810
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −154.7
Std Dev 0
2
1
0
−1
−2

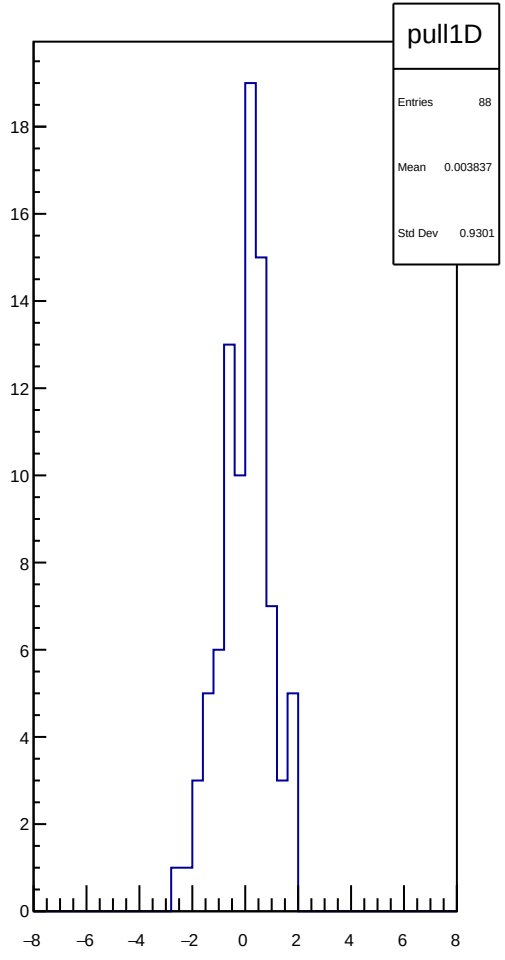

pull1D
Entries 88
Mean 0.003837
Std Dev 0.9301
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

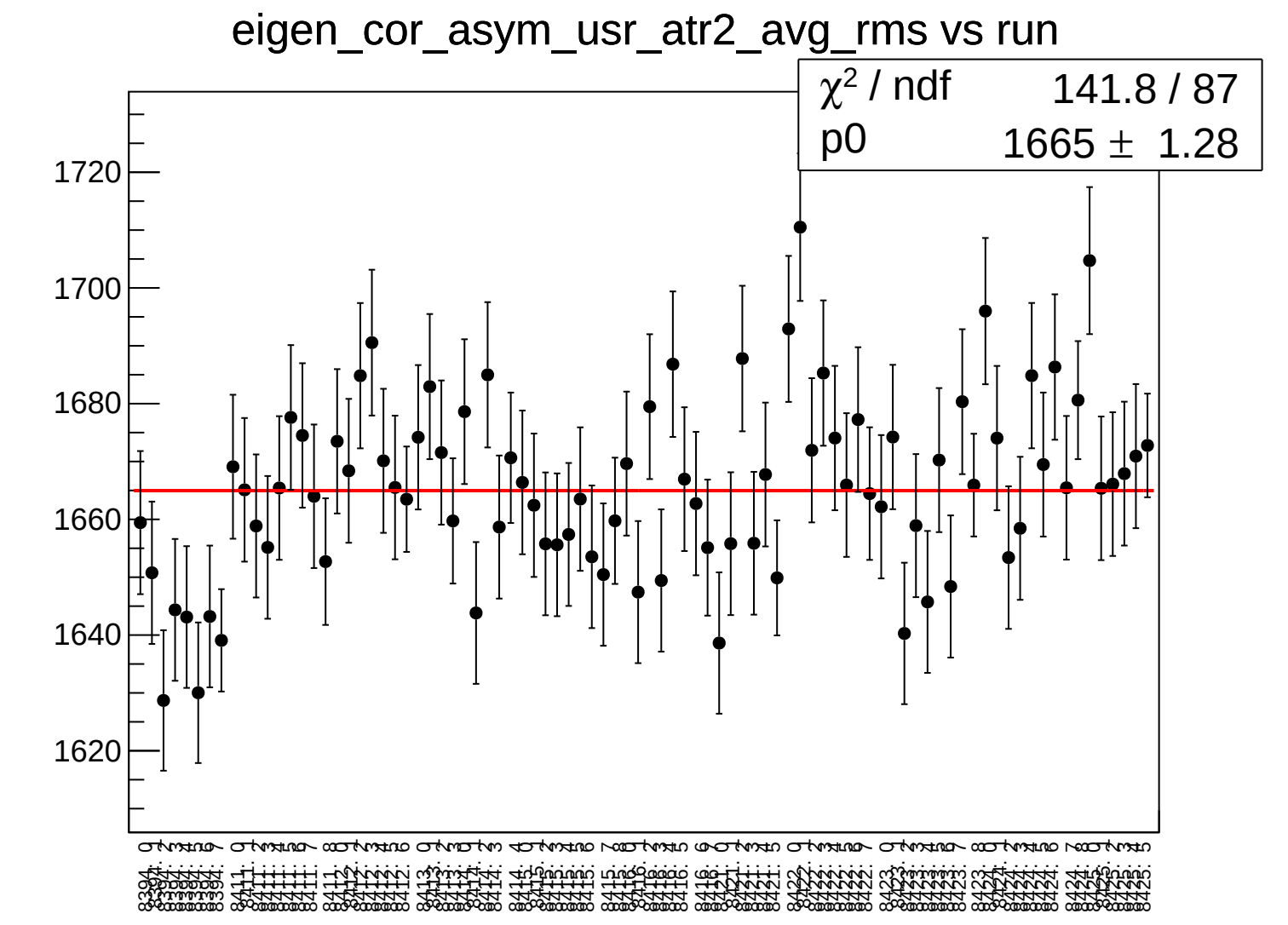

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 141.8 / 87
p0 1665 ± 1.28
1720
1700
1680
1660
1640
1620

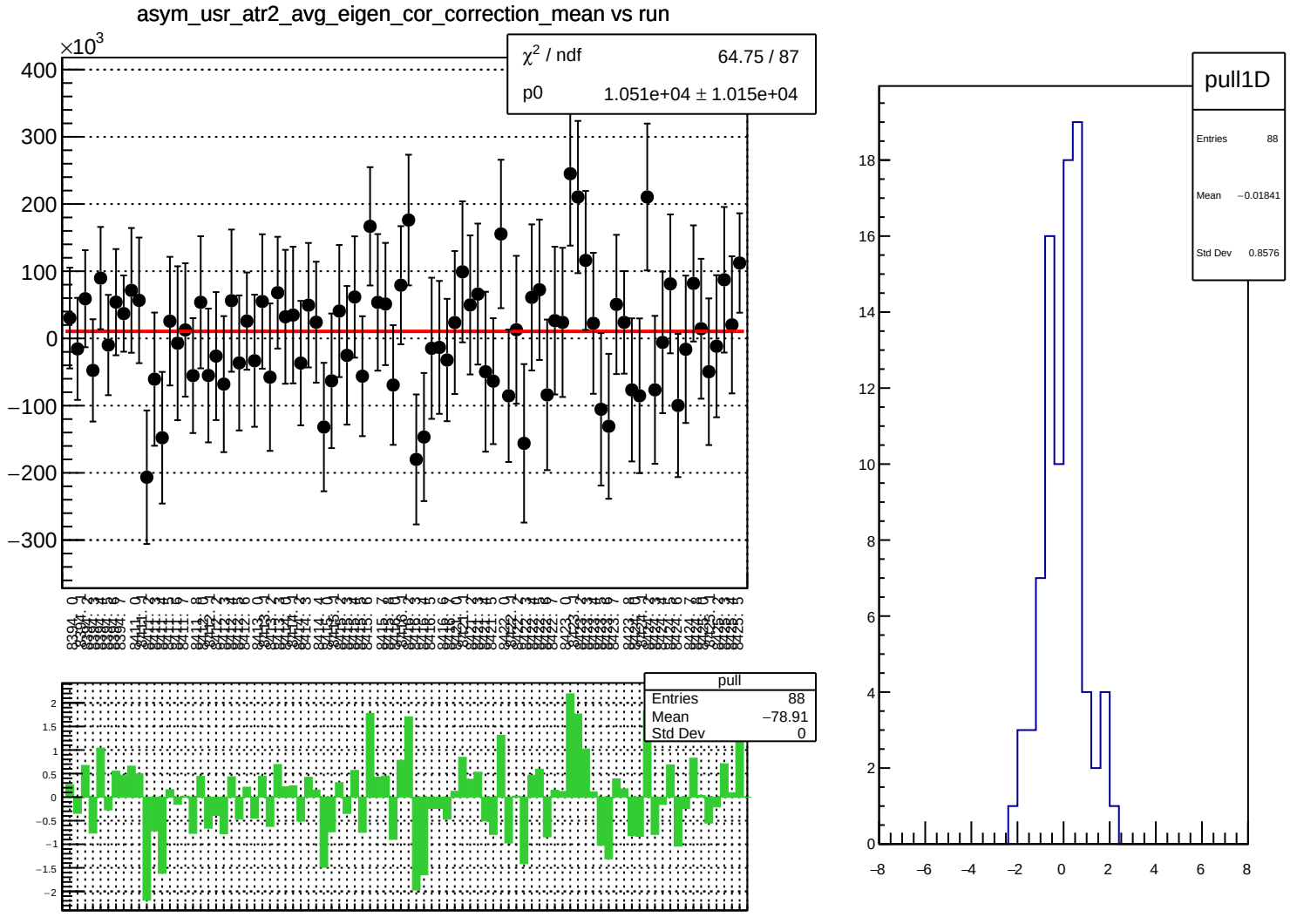

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 64.75 / 87
p0 1.051e+04 ± 1.015e+04
pull
Entries 88
Mean −78.91
Std Dev 0
pull1D
Entries 88
Mean −0.01841
Std Dev 0.8576

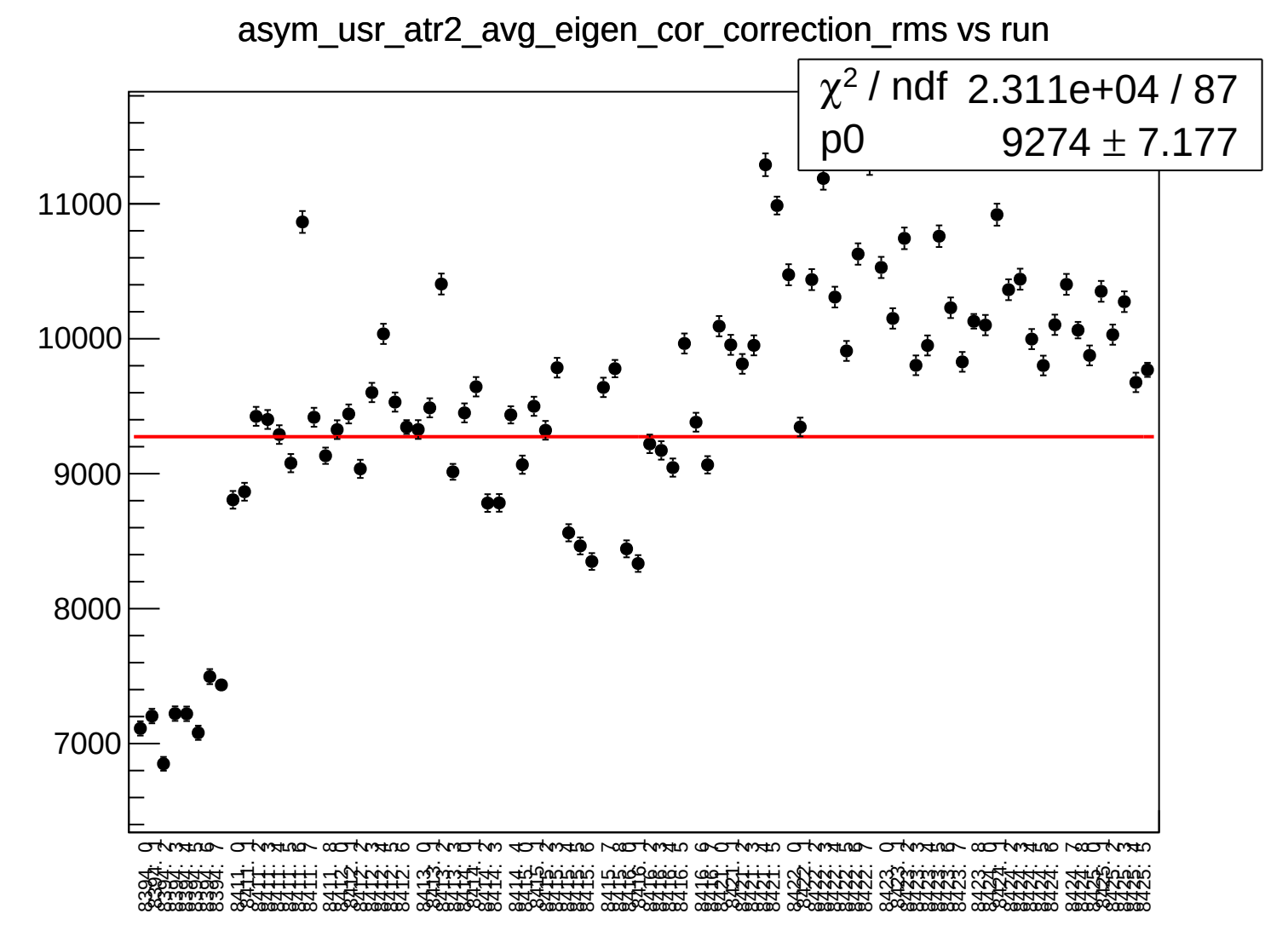

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 2.311e+04 / 87
p0 9274 ± 7.177
11000
10000
9000
8000
7000

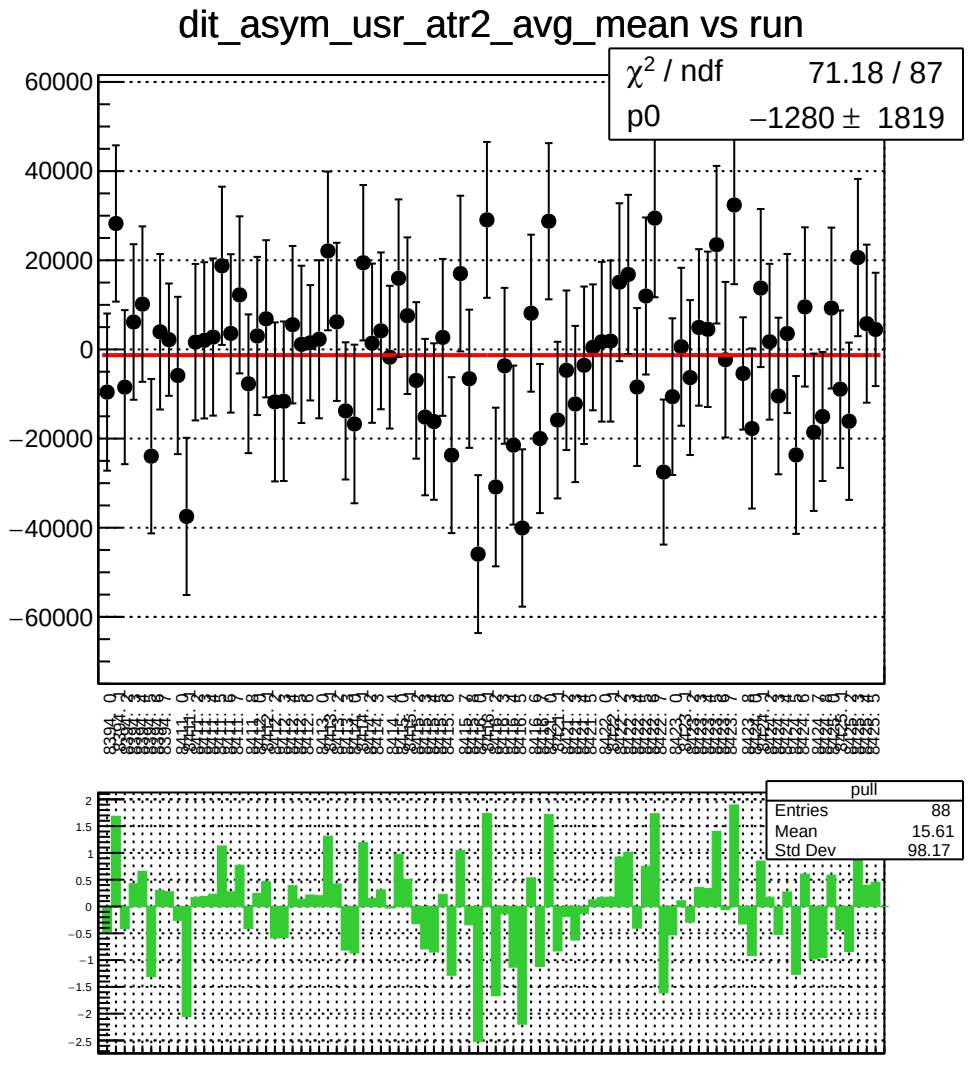

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 76.13 / 87
p0 −1233 ± 1810
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −154.7
Std Dev 0
2
1
0
−1
−2

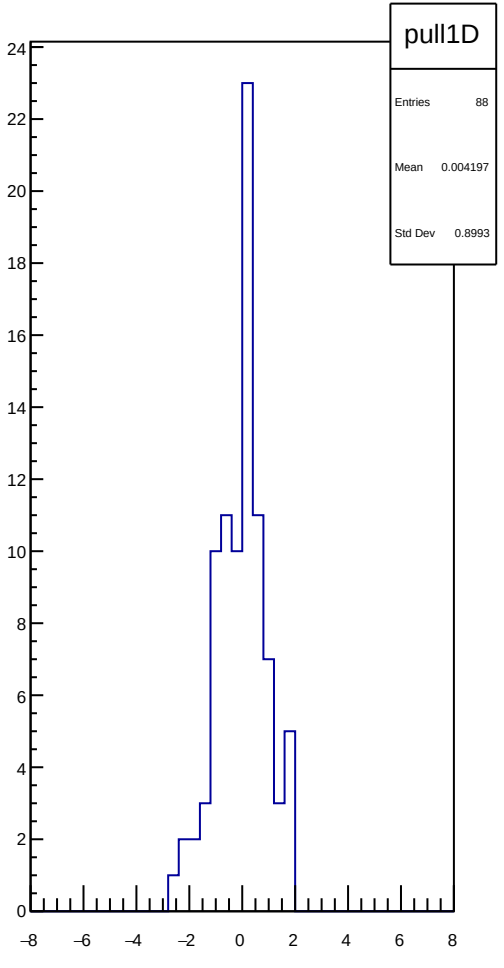

pull1D
Entries 88
Mean 0.003837
Std Dev 0.9301
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

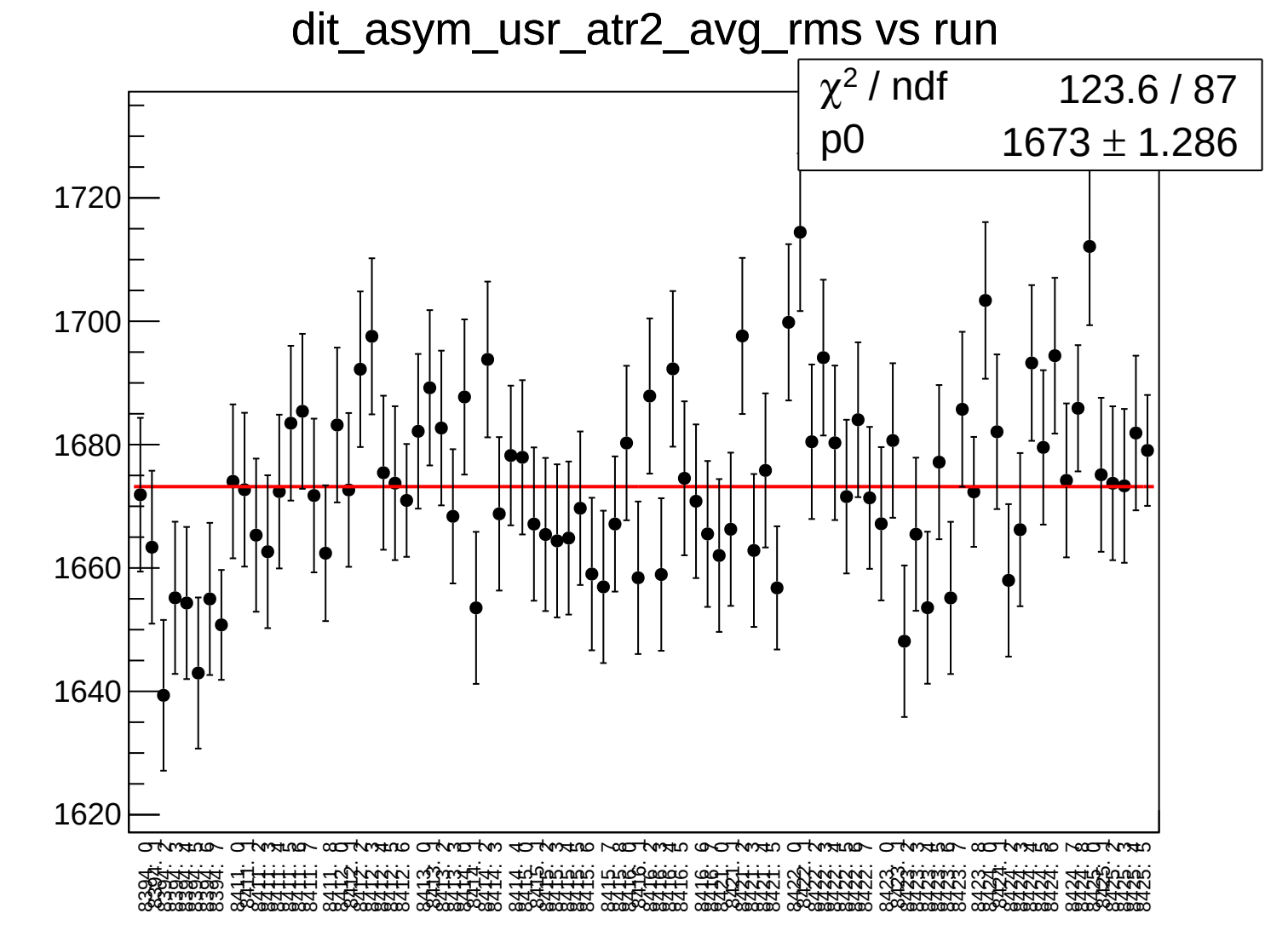

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 141.8 / 87
p0 1665 ± 1.28
1720
1700
1680
1660
1640
1620

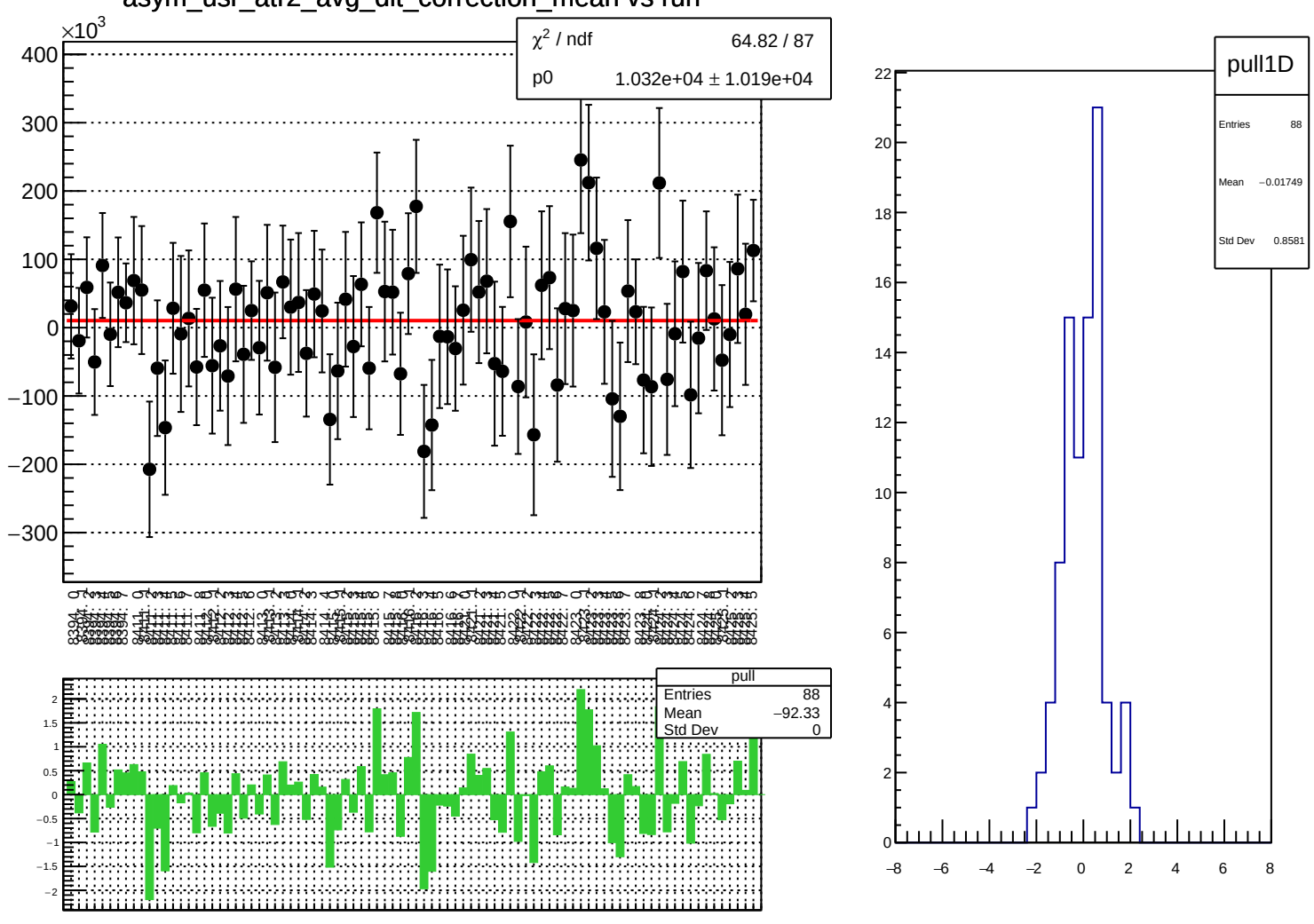

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 64.75 / 87
p0 1.051e+04 ± 1.015e+04
pull
Entries 88
Mean −78.91
Std Dev 0
pull1D
Entries 88
Mean −0.01841
Std Dev 0.8576

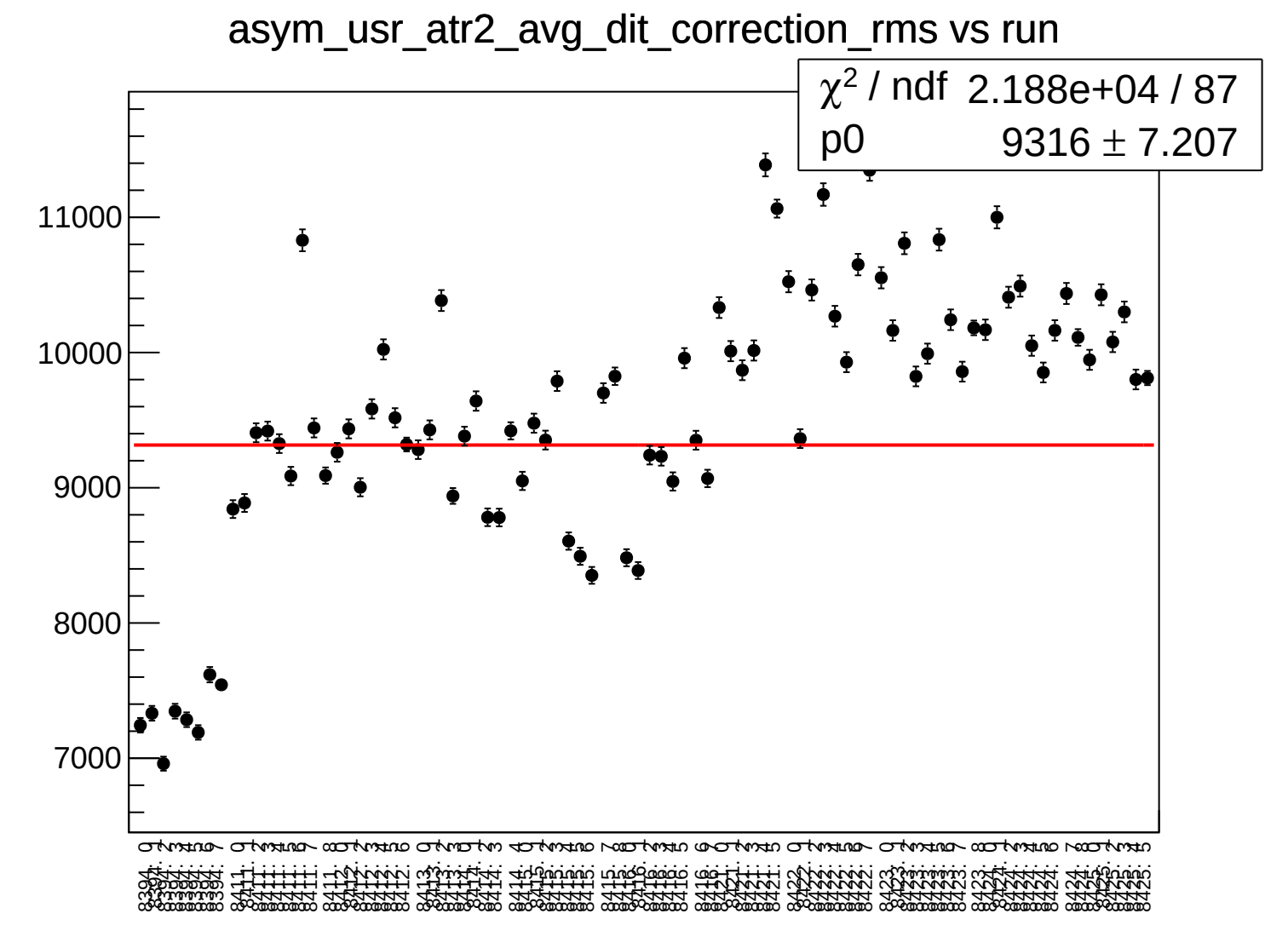

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.311e+04 / 87
p0 9274 ± 7.177
11000
10000
9000
8000
7000

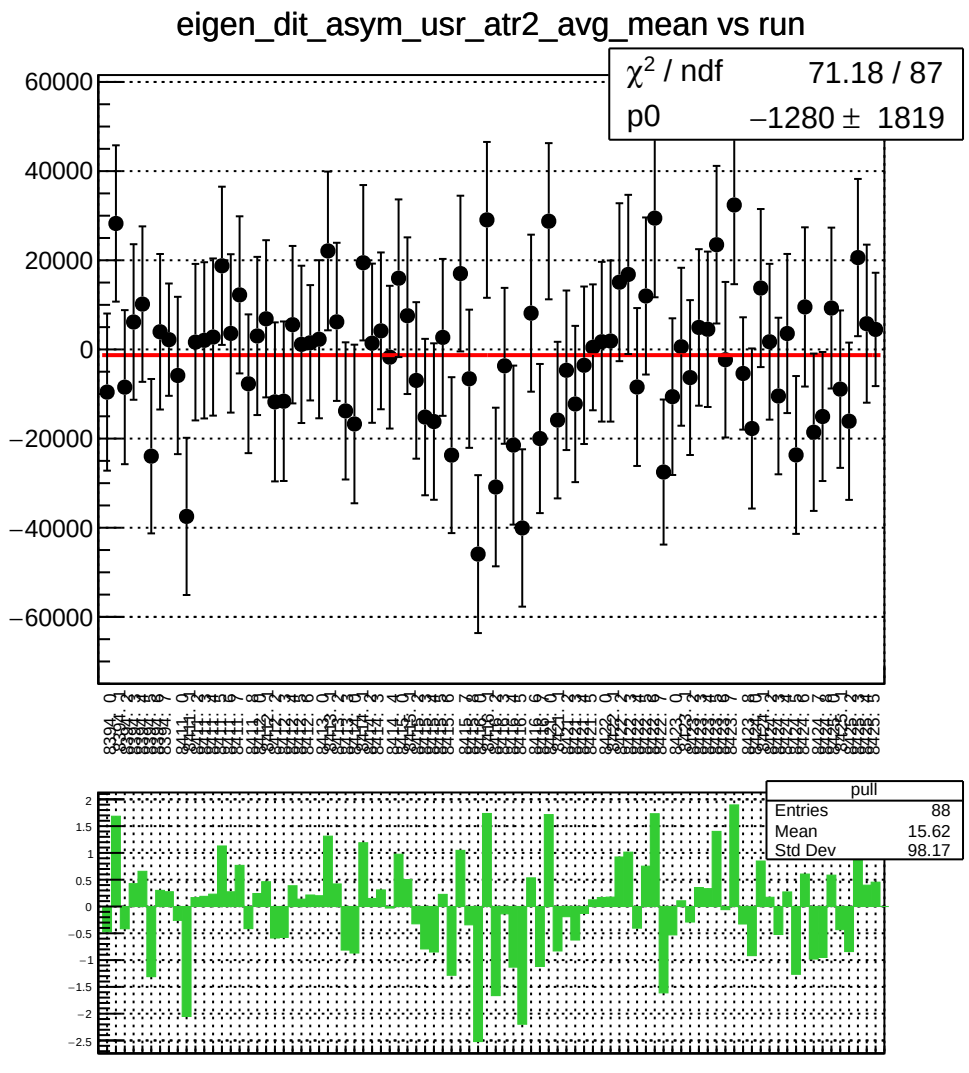

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 71.18 / 87
p0 −1280 ± 1819
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 15.61
Std Dev 98.17
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

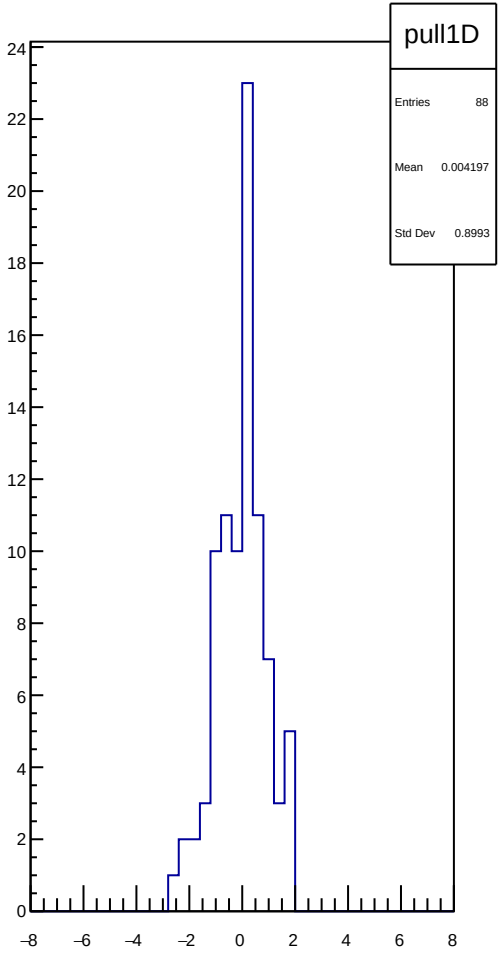

pull1D
Entries 88
Mean 0.004197
Std Dev 0.8993
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

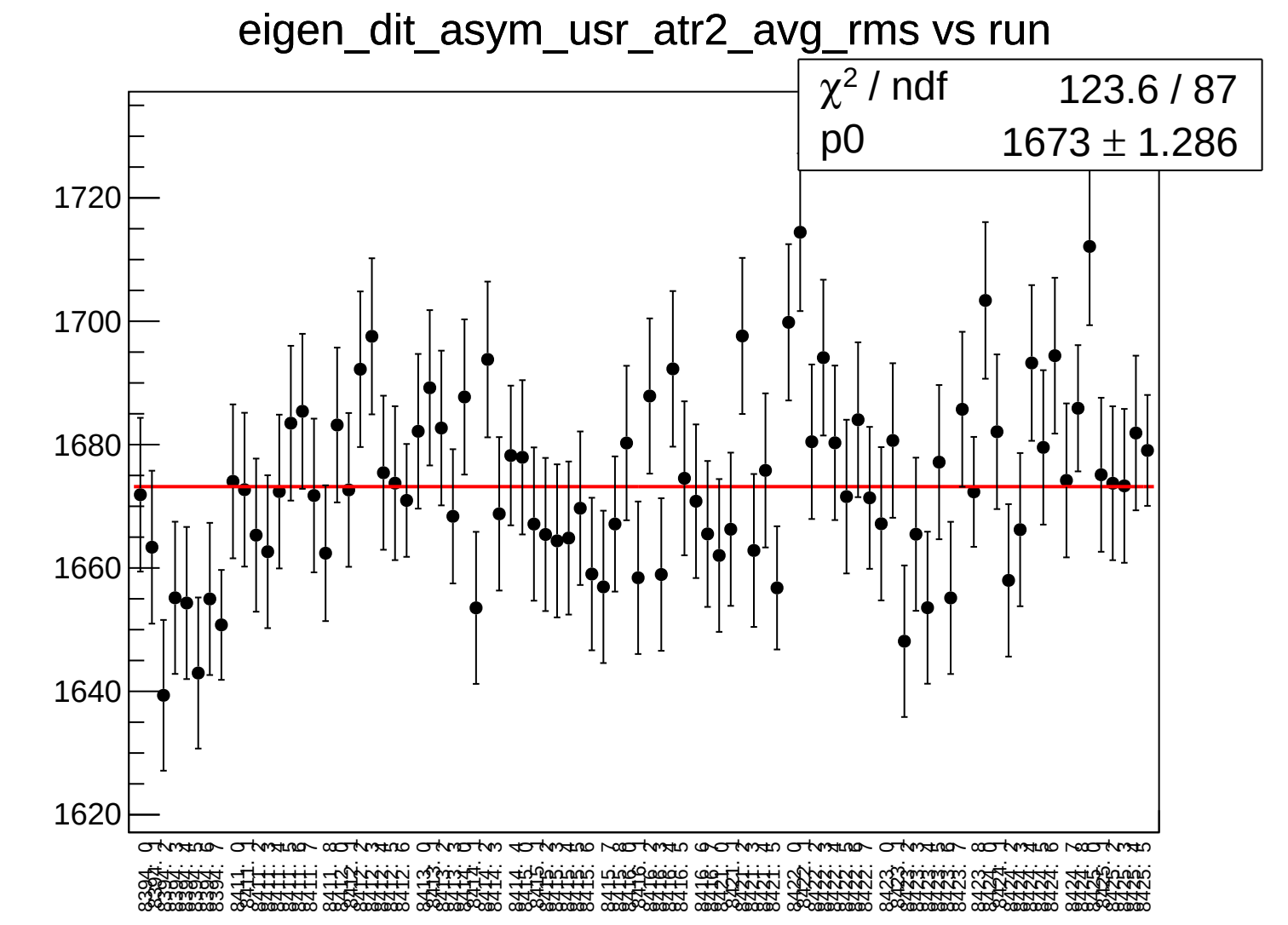

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 123.6 / 87
p0 1673 ± 1.286
1720
1700
1680
1660
1640
1620

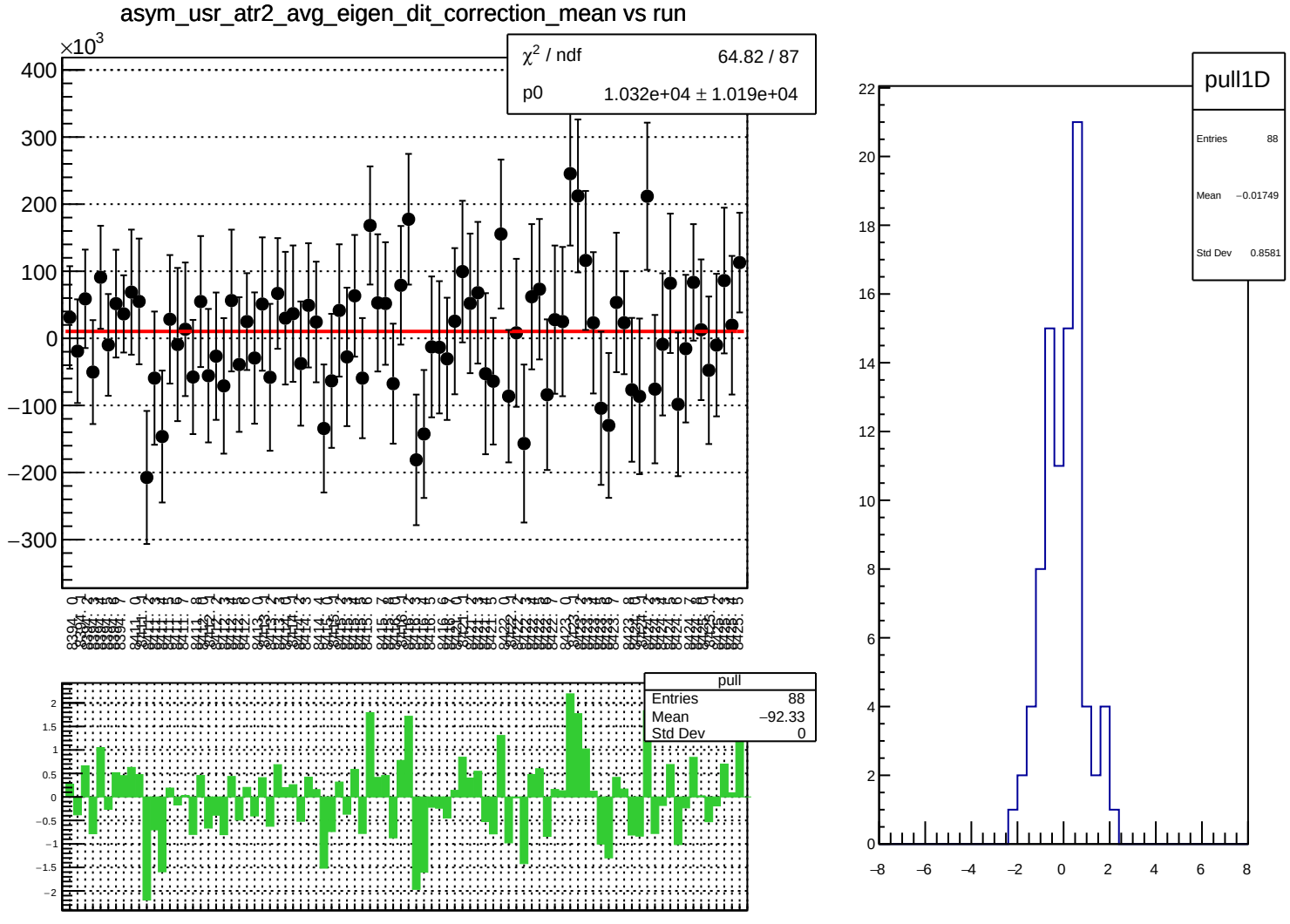

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 64.82 / 87
p0 1.032e+04 ± 1.019e+04
pull
Entries 88
Mean −92.33
Std Dev 0
pull1D
Entries 88
Mean −0.01749
Std Dev 0.8581

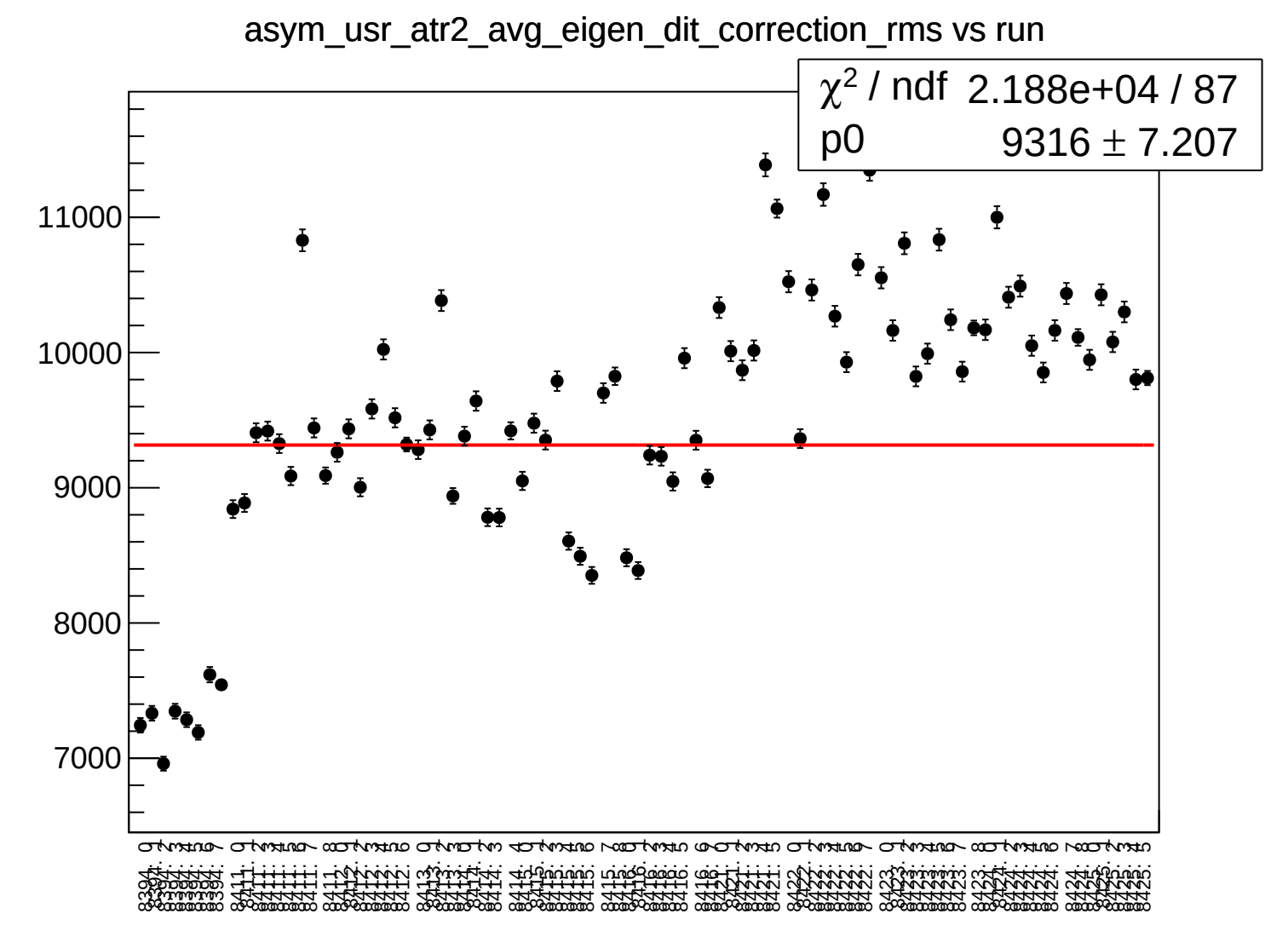

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 2.188e+04 / 87
p0 9316 ± 7.207
11000
10000
9000
8000
7000

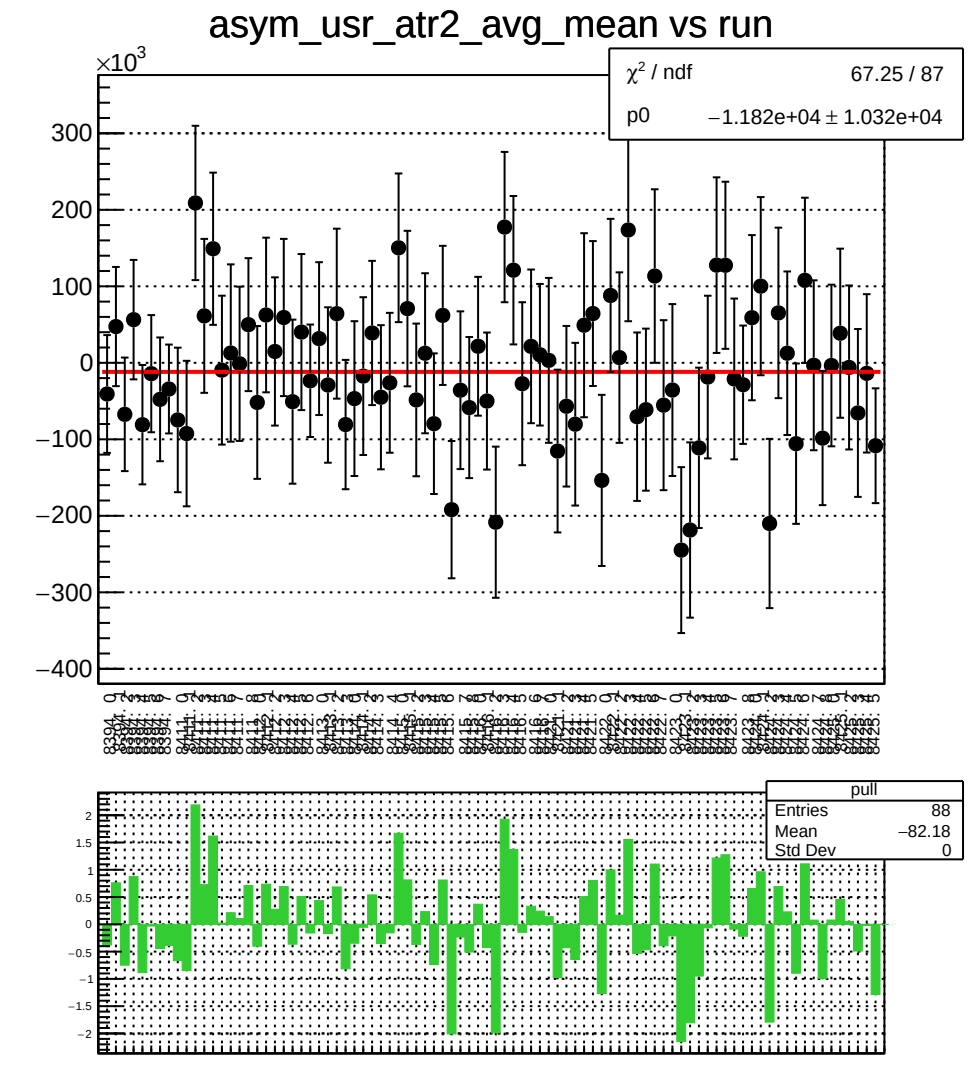

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 71.18 / 87
p0 −1280 ± 1819
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 15.62
Std Dev 98.17
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

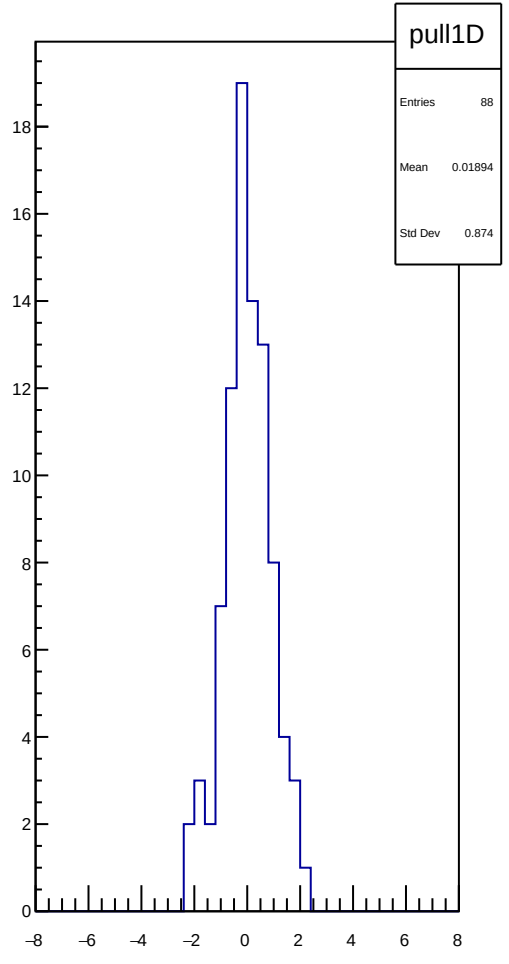

pull1D
Entries 88
Mean 0.004197
Std Dev 0.8993
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

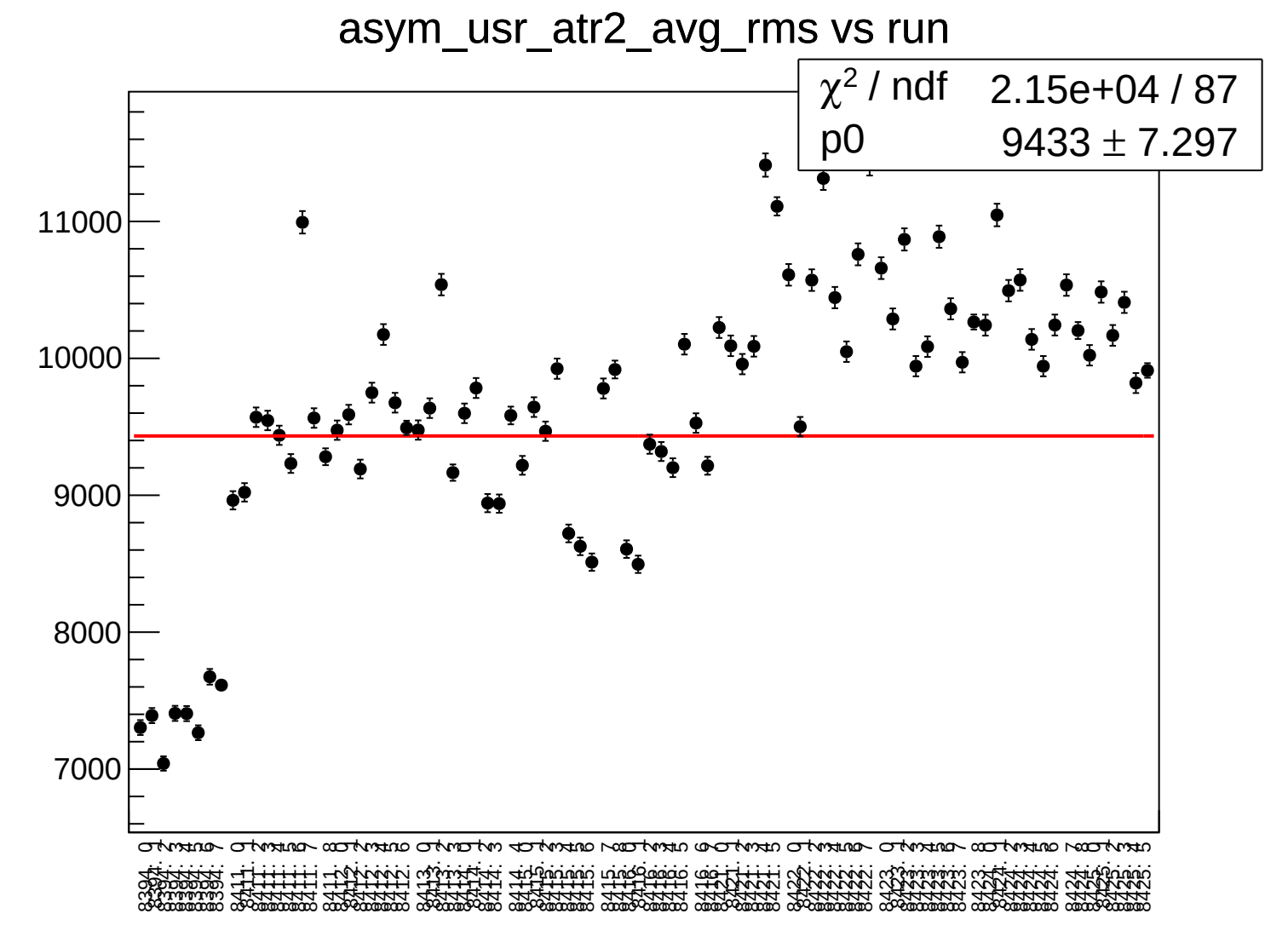

eigen_dit_asym_usr_atr2_avg_rms vs run
χ^2 / ndf 123.6 / 87
p0 1673 ± 1.286
1720
1700
1680
1660
1640
1620

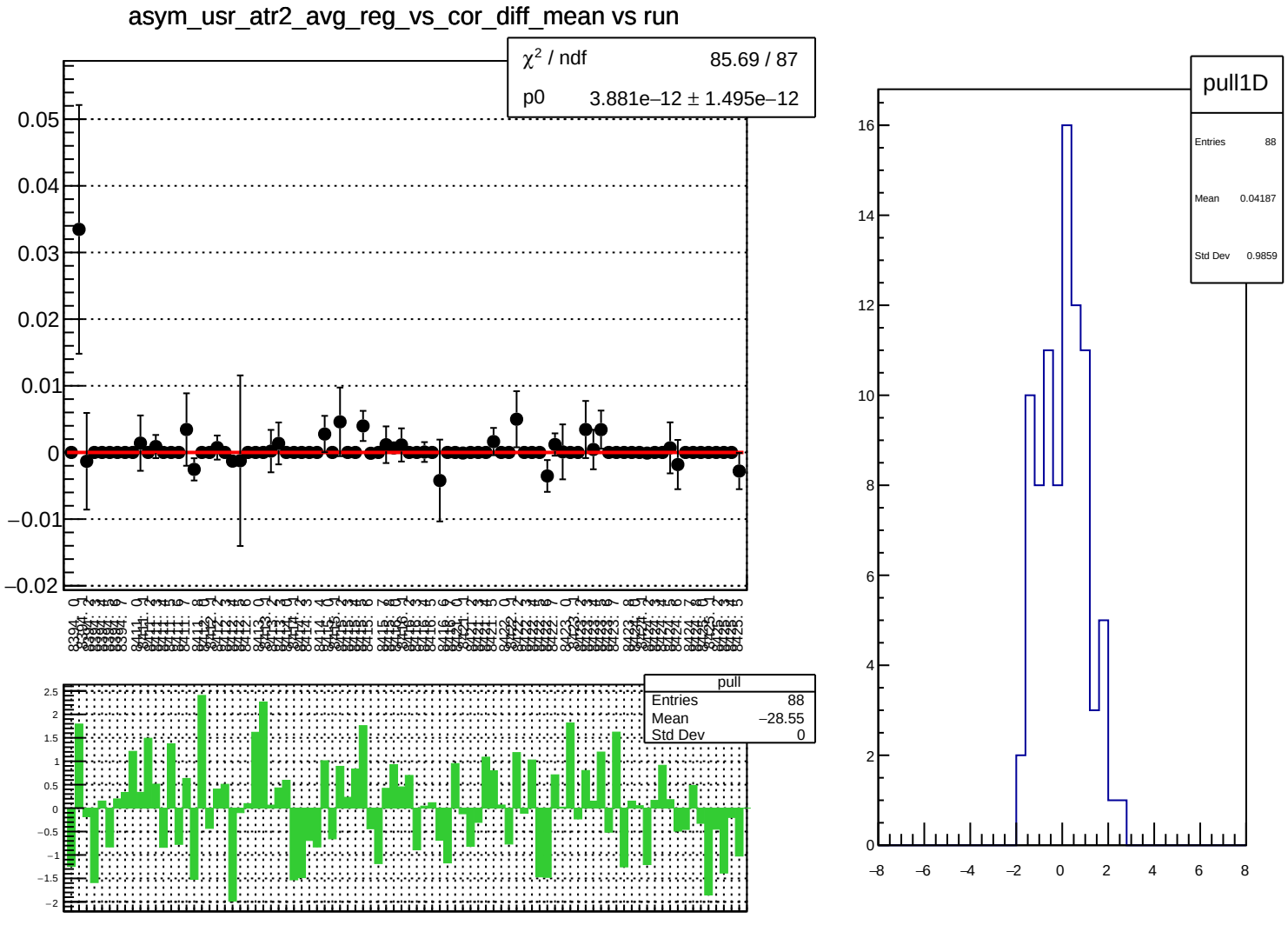

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 64.82 / 87
p0 1.032e+04 ± 1.019e+04
pull
Entries 88
Mean −92.33
Std Dev 0
pull1D
Entries 88
Mean −0.01749
Std Dev 0.8581

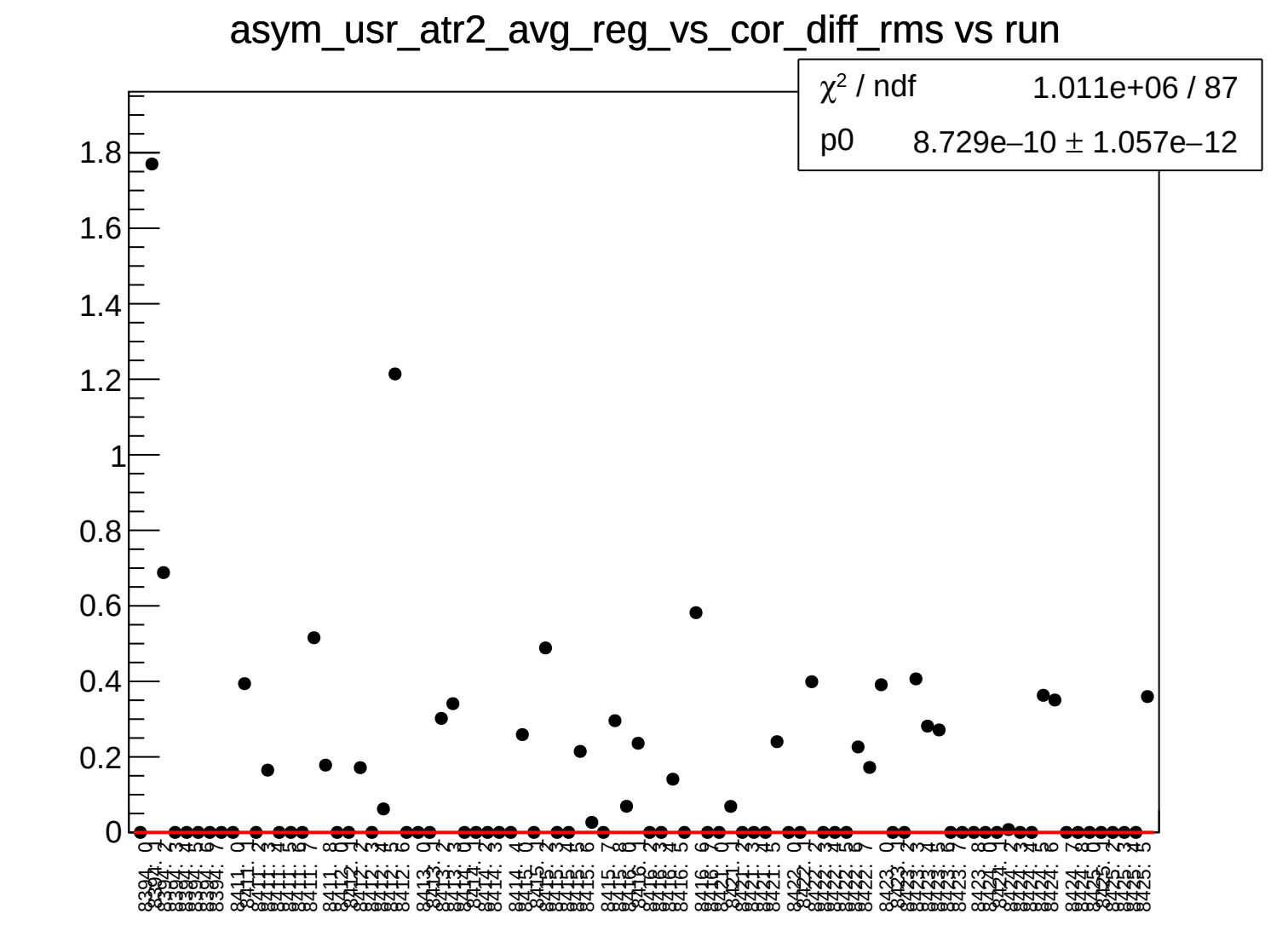

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.188e+04 / 87
p0 9316 ± 7.207
11000
10000
9000
8000
7000

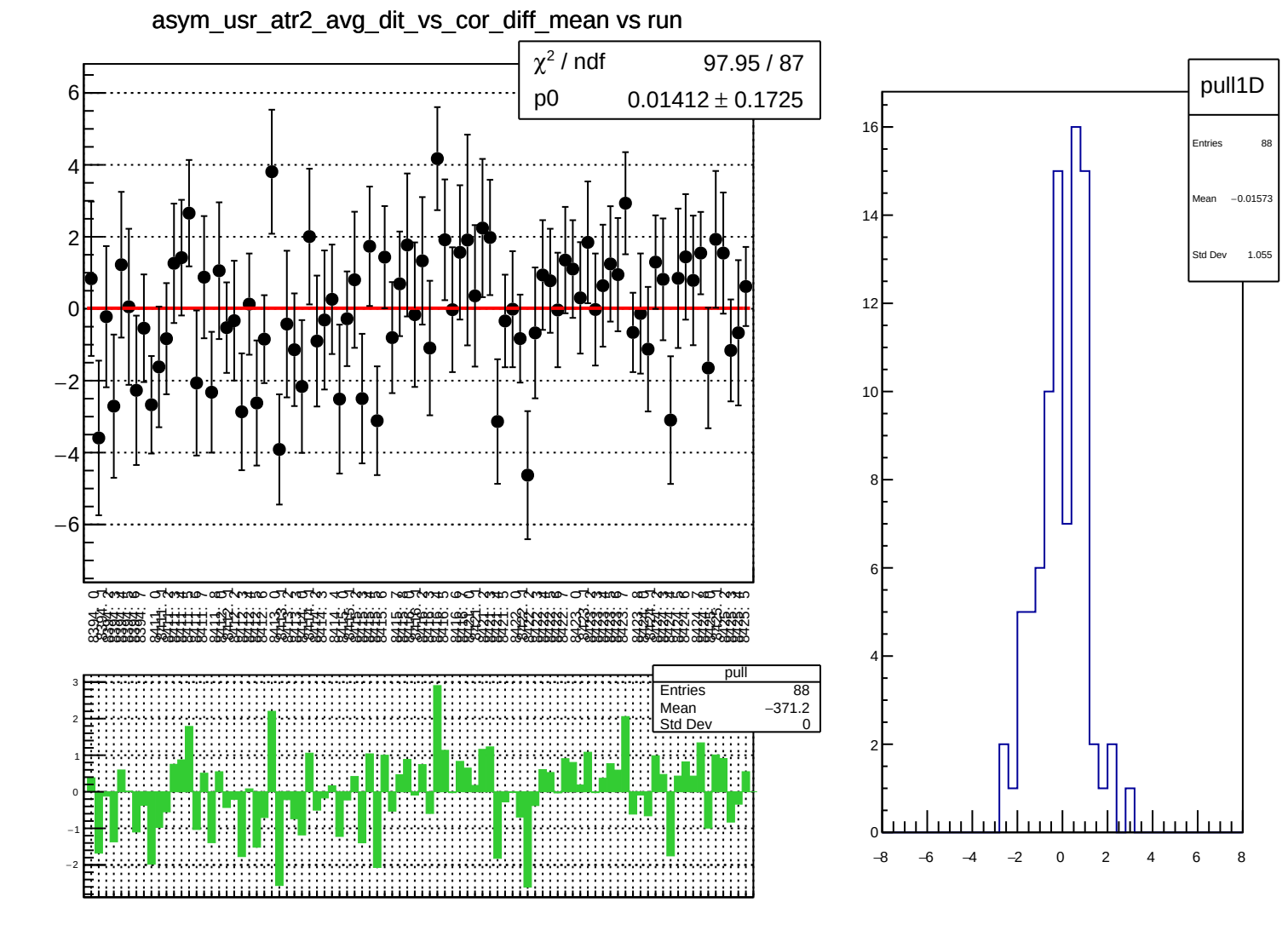

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 67.25 / 87
p0 −1.182e+04 ± 1.032e+04
300
200
100
0
−100
−200
−300
−400
pull
Entries 88
Mean −82.18
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

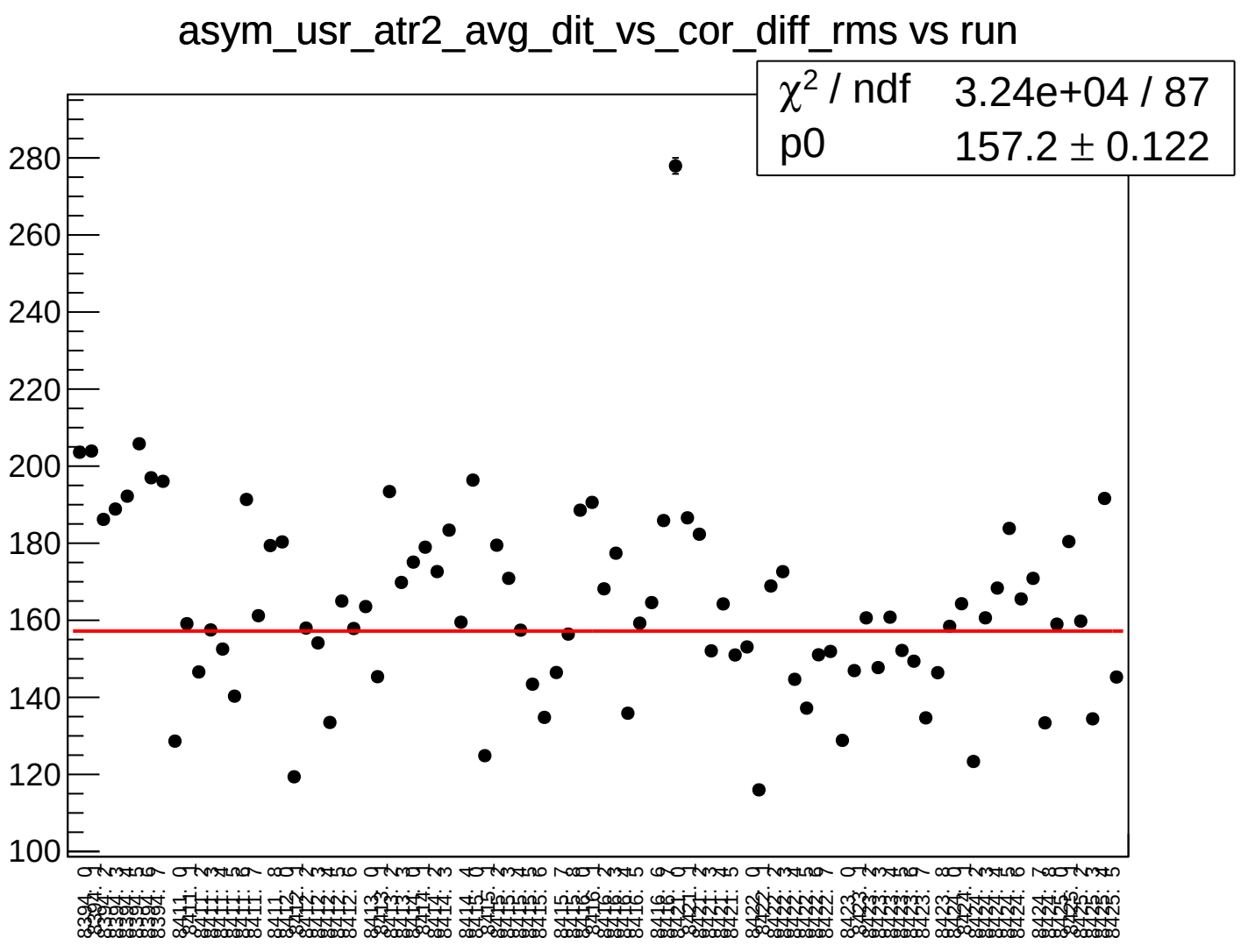

pull1D
Entries 88
Mean 0.01894
Std Dev 0.874
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

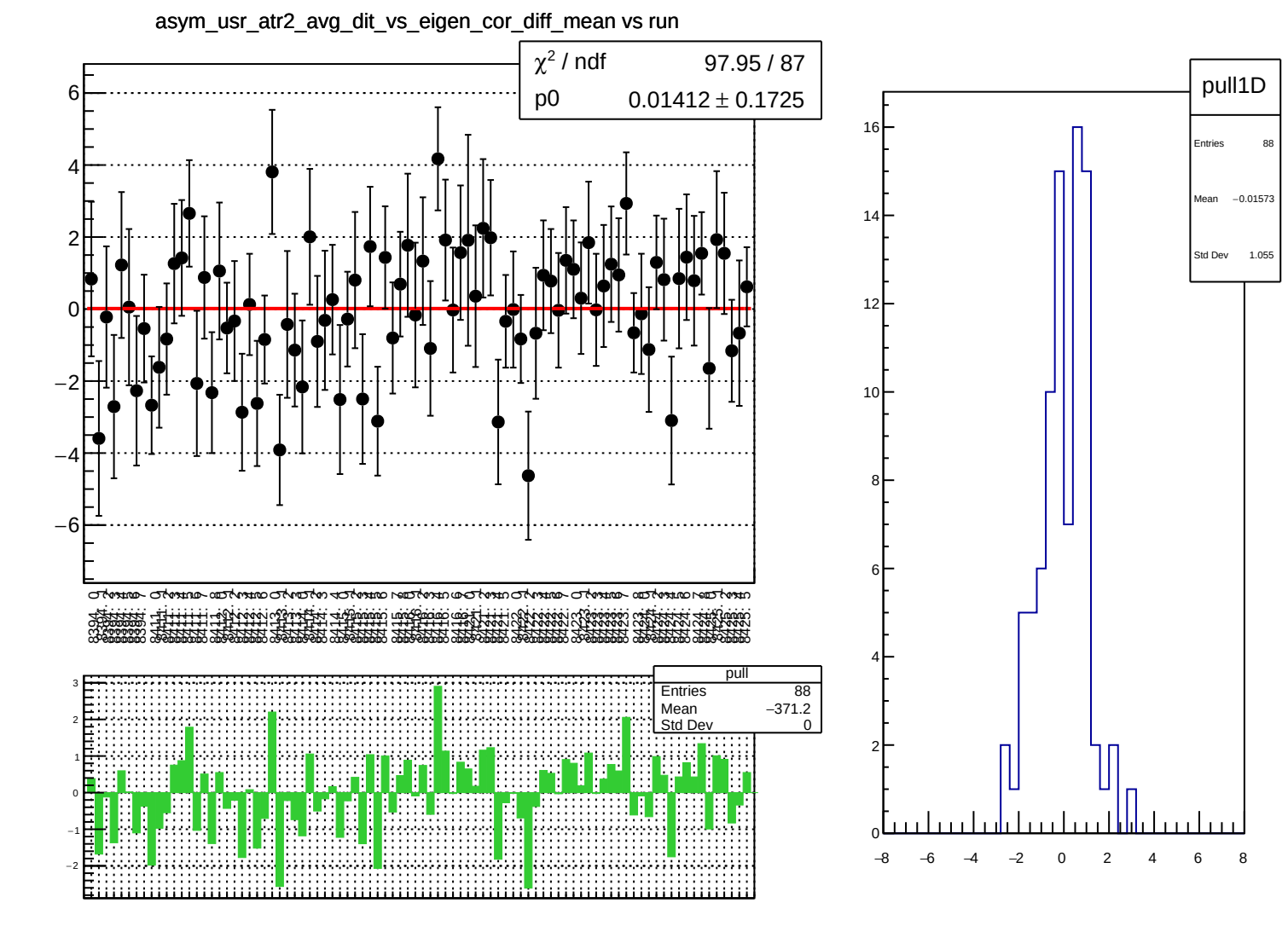

asym_usr_atr2_avg_rms vs run
χ^2 / ndf 2.15e+04 / 87
p0 9433 ± 7.297
11000
10000
9000
8000
7000

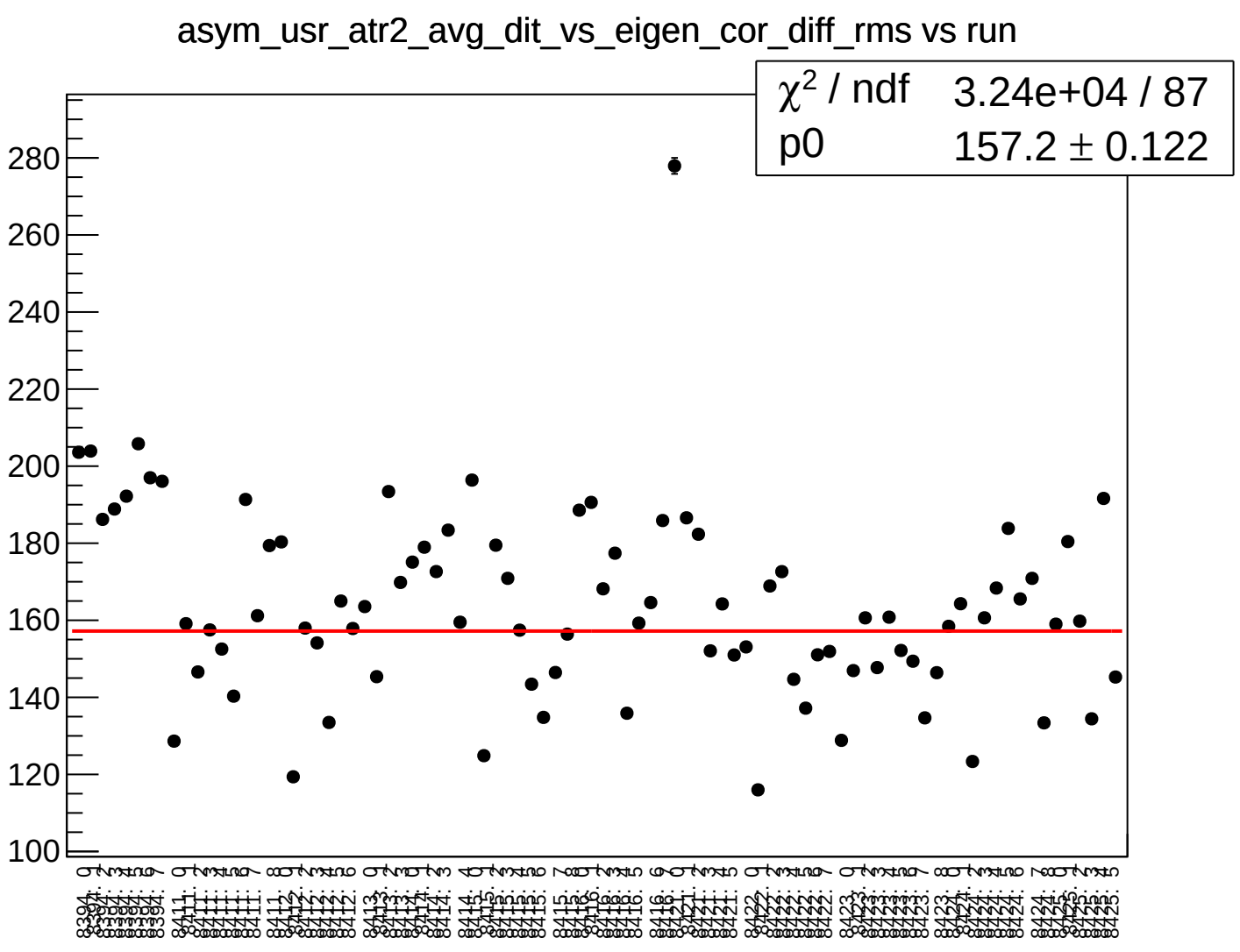

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 85.69 / 87
p0 3.881e−12 ± 1.495e−12
0.05
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 88
Mean −28.55
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean 0.04187
Std Dev 0.9859
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

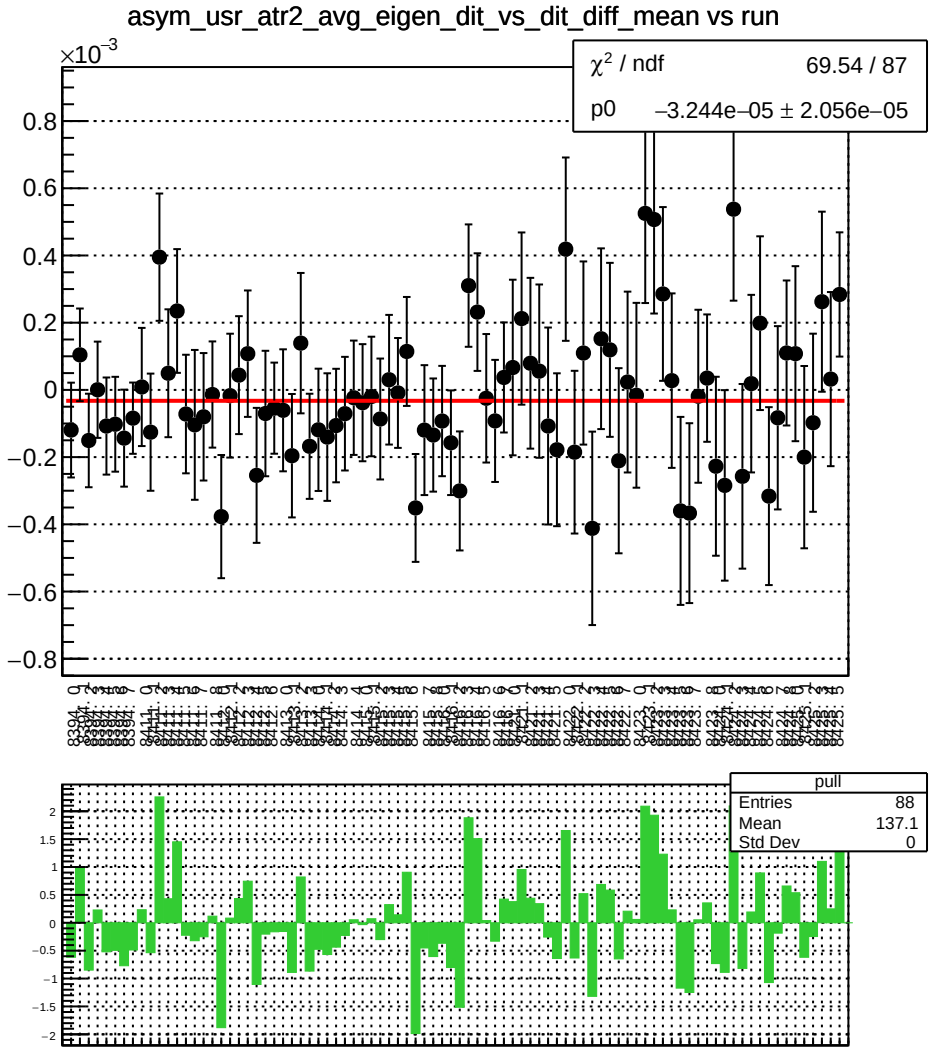

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.011e+06 / 87
p0 8.729e−10 ± 1.057e−12
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

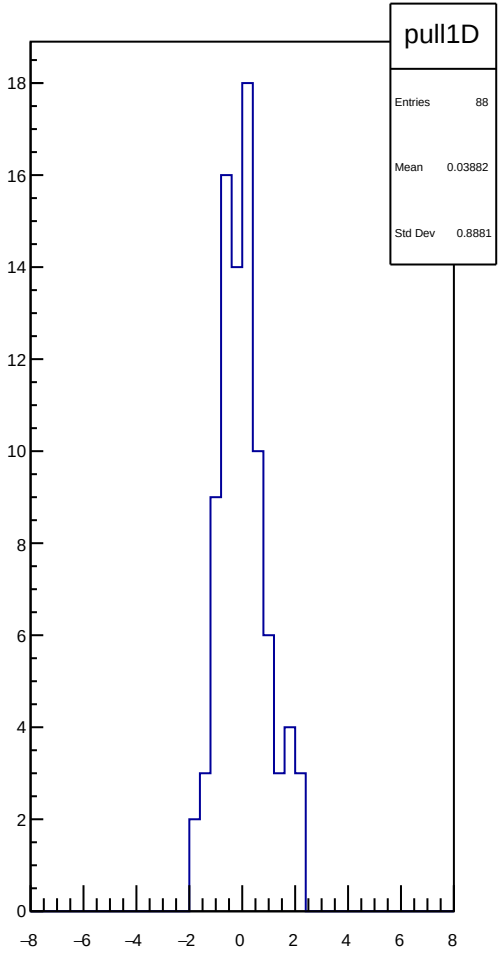

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 97.95 / 87
p0 0.01412 ± 0.1725
pull
Entries 88
Mean −371.2
Std Dev 0
pull1D
Entries 88
Mean −0.01573
Std Dev 1.055

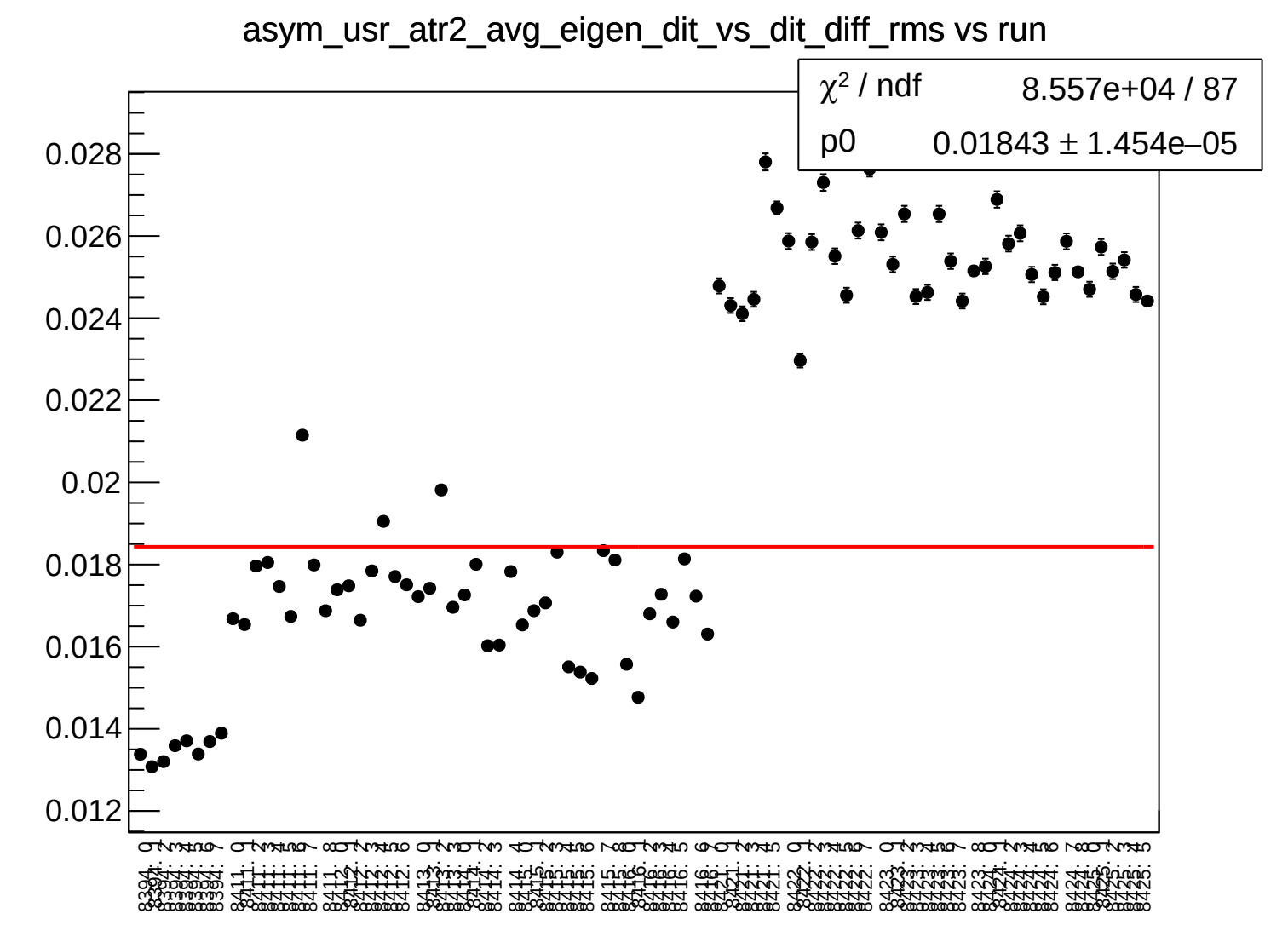

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.24e+04 / 87
p0 157.2 ± 0.122
280
260
240
220
200
180
160
140
120
100

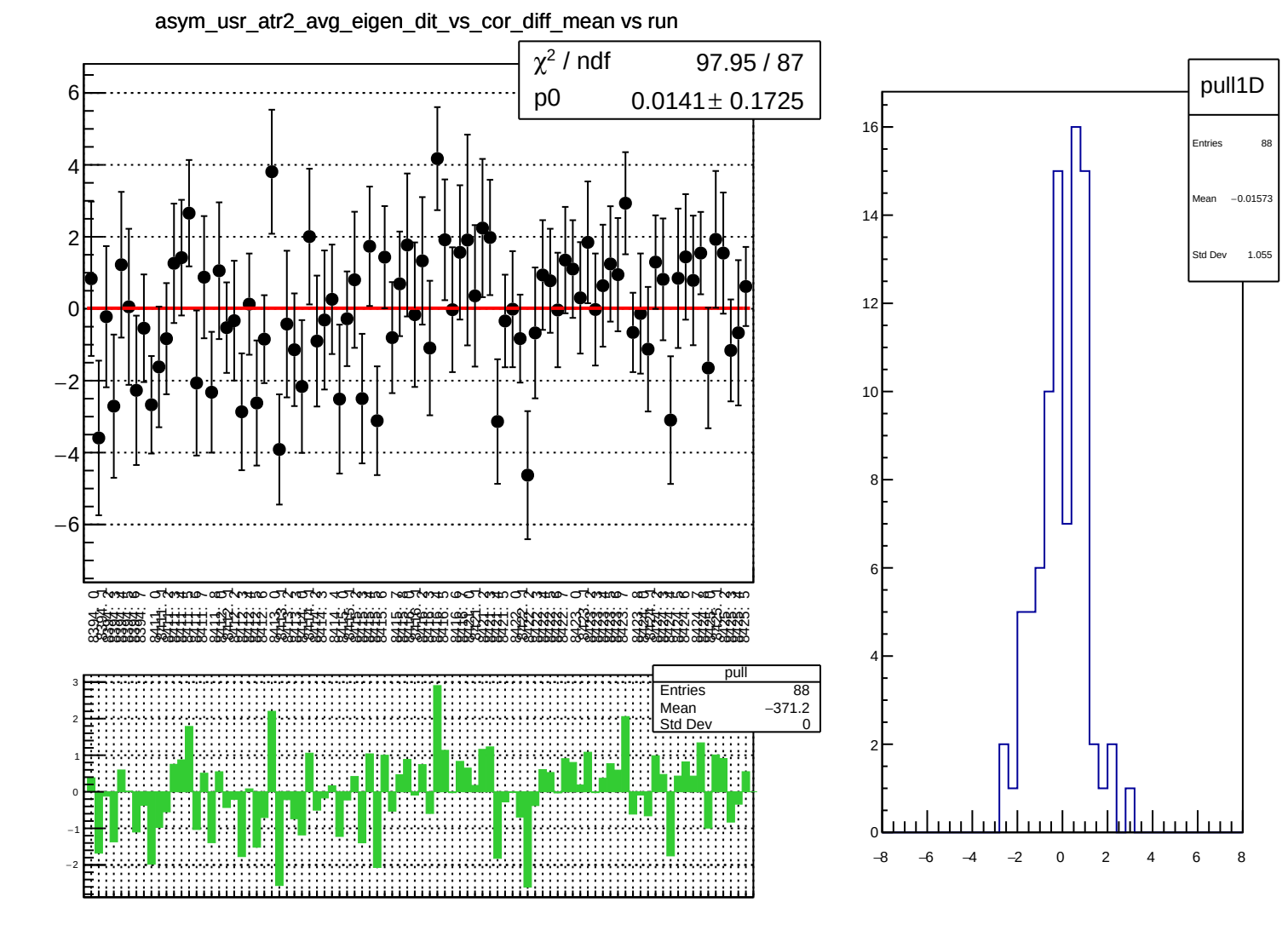

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.95 / 87
p0 0.01412 ± 0.1725
pull
Entries 88
Mean −371.2
Std Dev 0
pull1D
Entries 88
Mean −0.01573
Std Dev 1.055

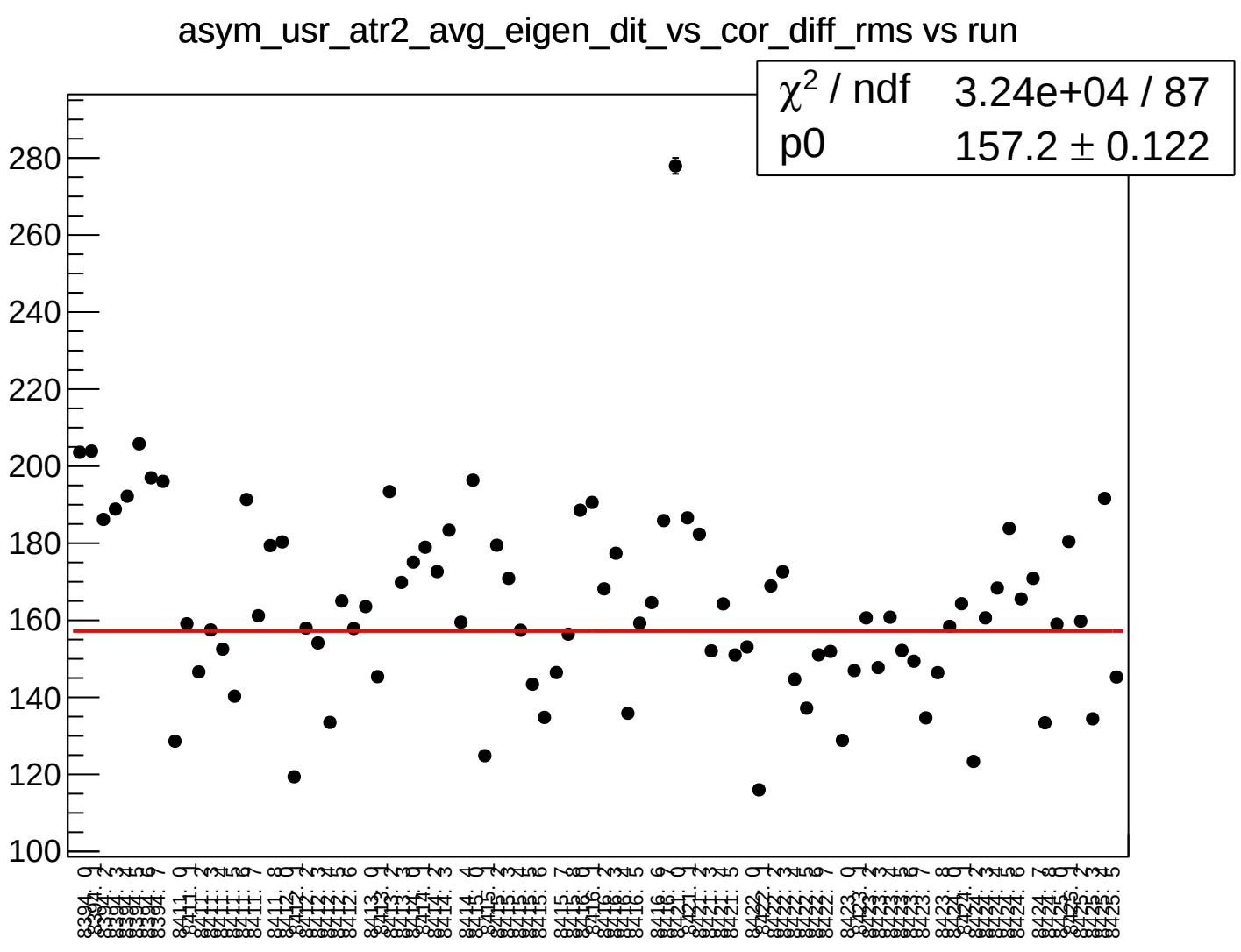

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.24e+04 / 87
p0 157.2 ± 0.122
280
260
240
220
200
180
160
140
120
100

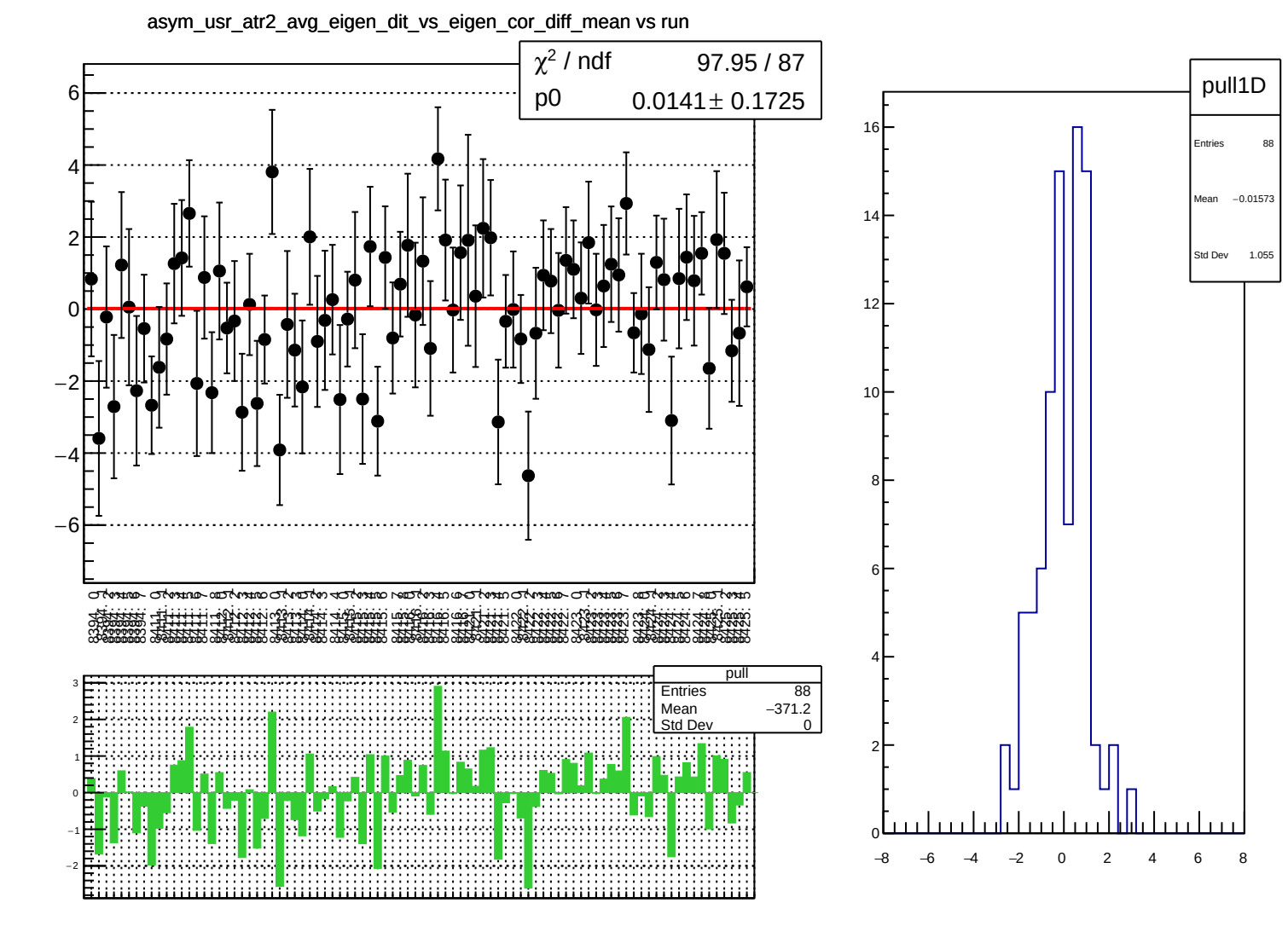

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 69.54 / 87
p0 −3.244e−05 ± 2.056e−05
pull
Entries 88
Mean 137.1
Std Dev 0

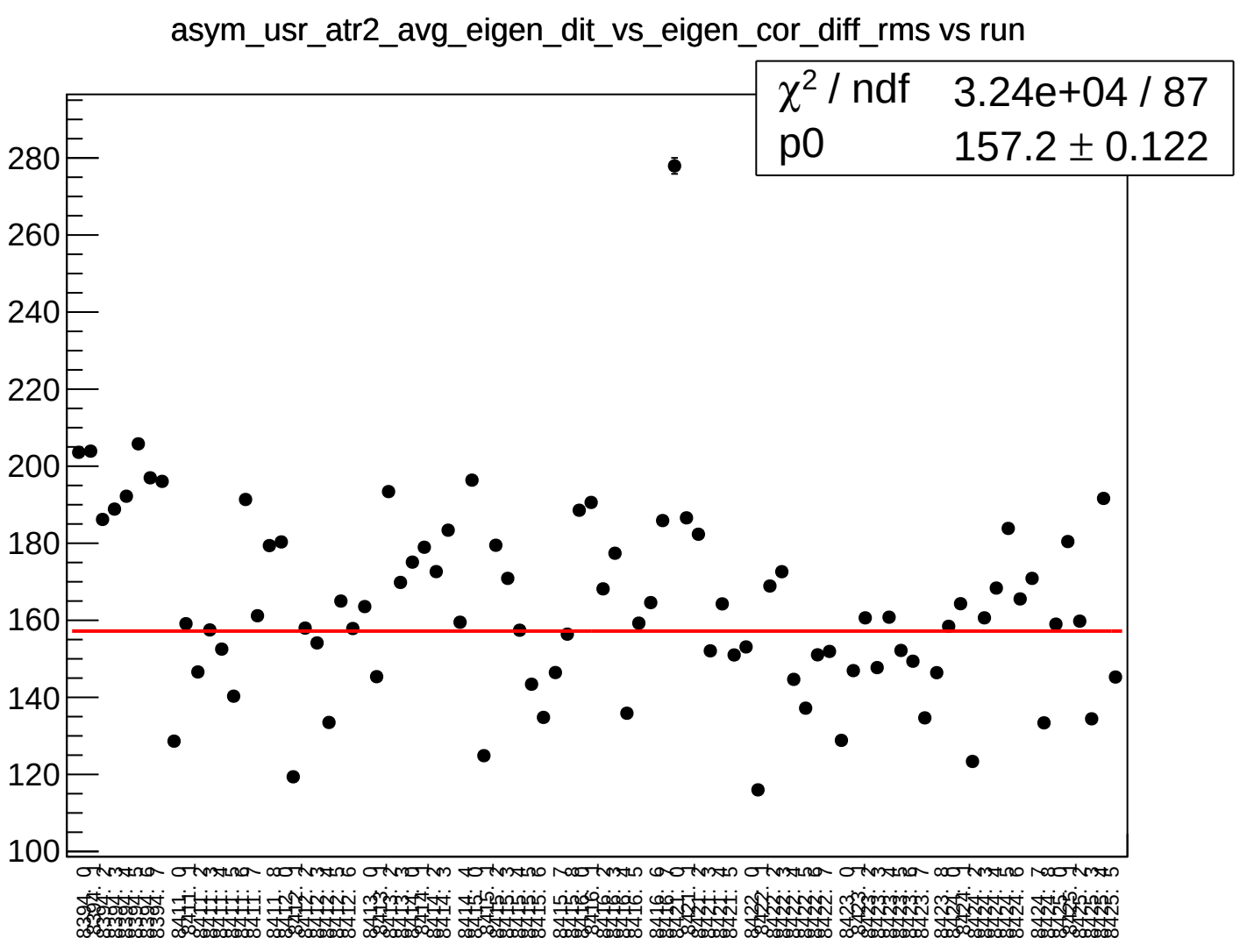

pull1D
Entries 88
Mean 0.03882
Std Dev 0.8881

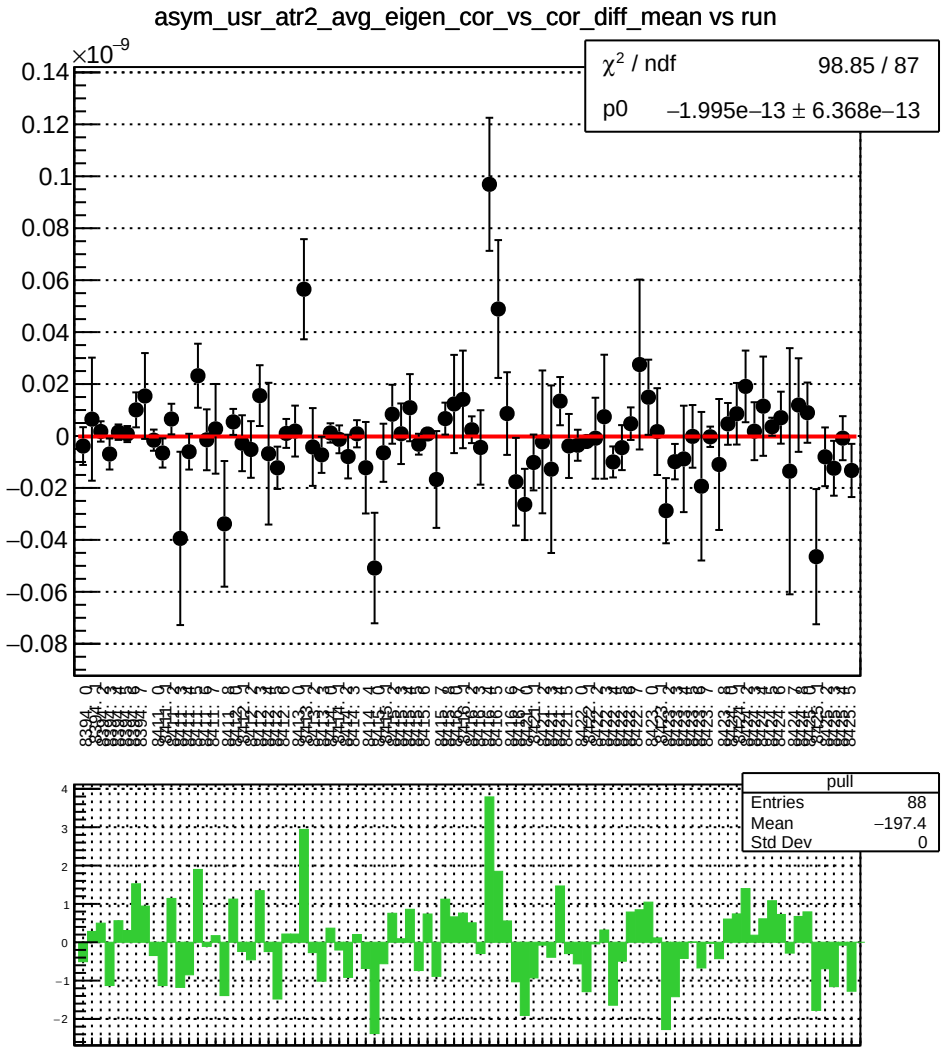

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.557e+04 / 87
p0 0.01843 ± 1.454e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

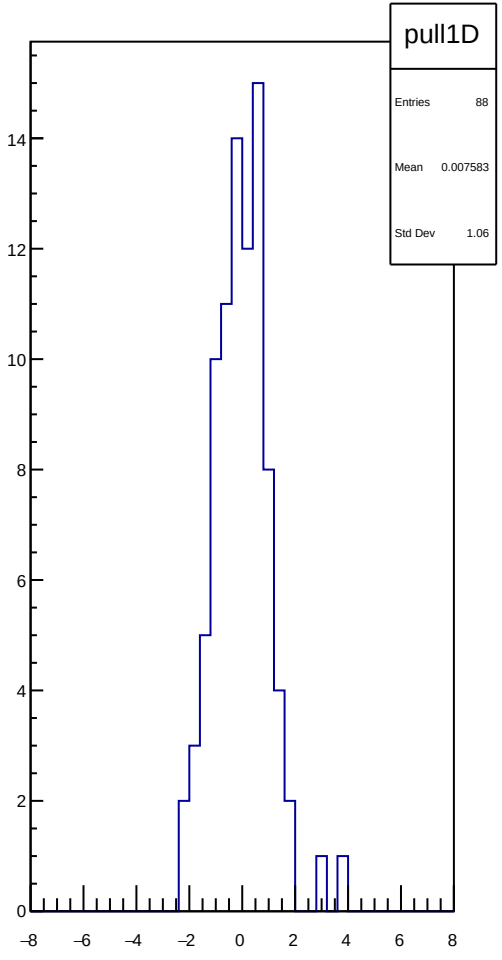

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.95 / 87
p0 0.0141 ± 0.1725
pull
Entries 88
Mean −371.2
Std Dev 0
pull1D
Entries 88
Mean −0.01573
Std Dev 1.055

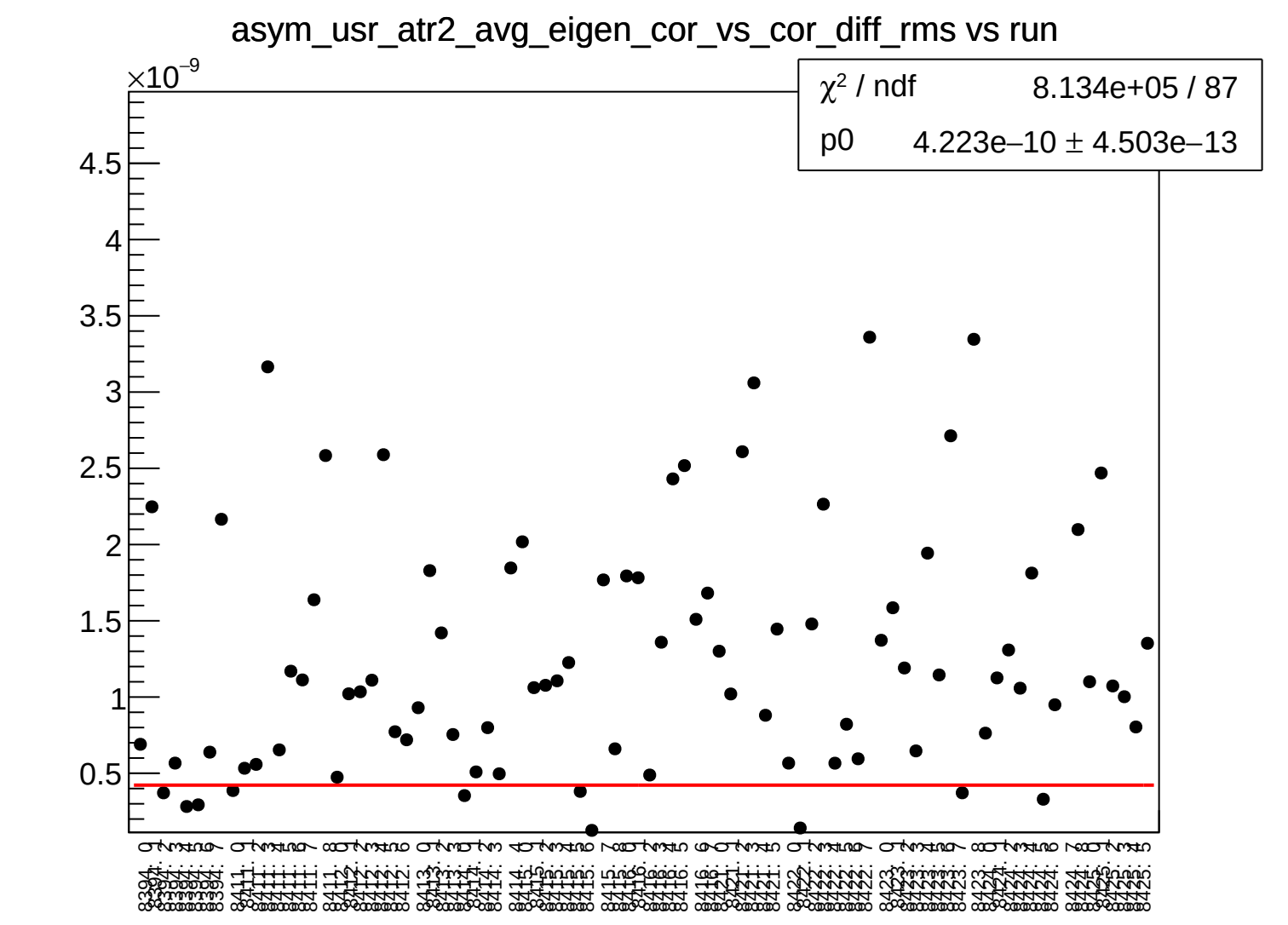

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.24e+04 / 87
p0 157.2 ± 0.122
280
260
240
220
200
180
160
140
120
100

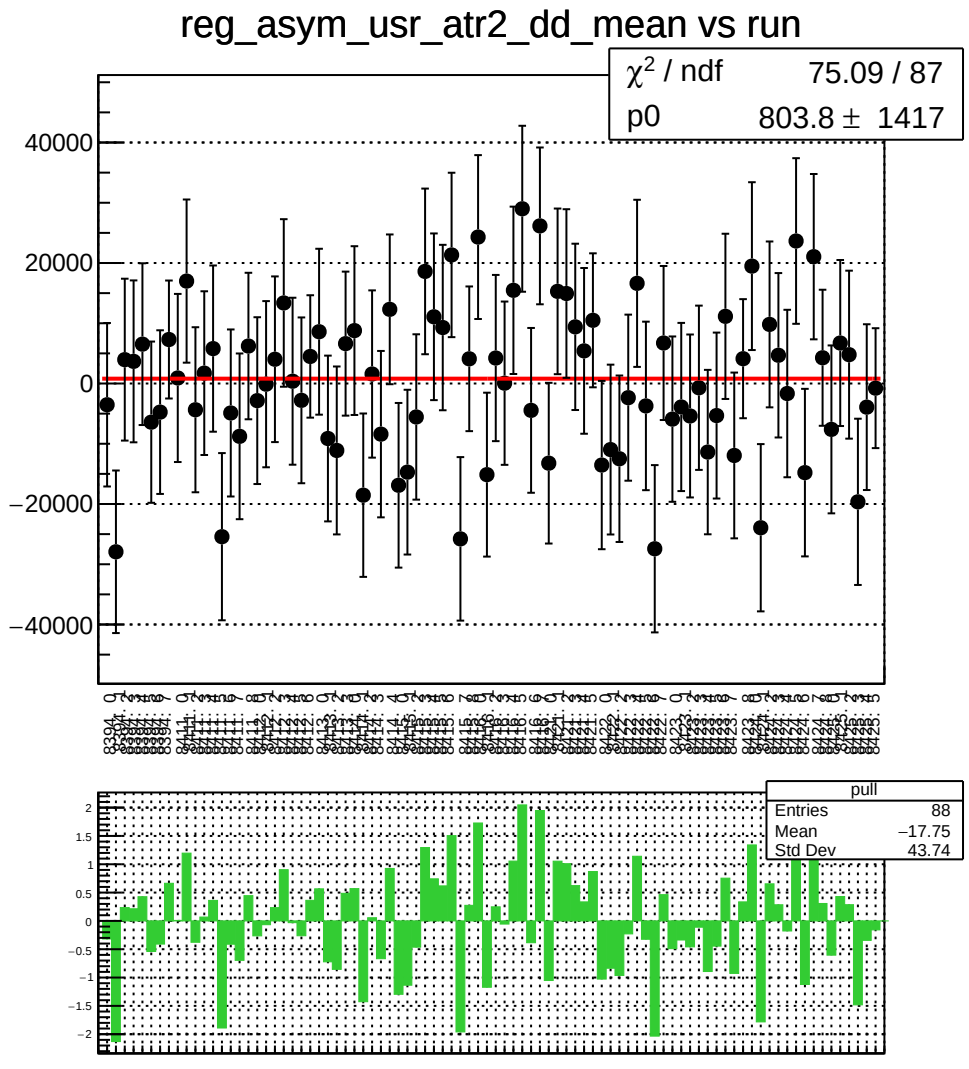

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.95 / 87
p0 0.0141 ± 0.1725
pull
Entries 88
Mean −371.2
Std Dev 0
pull1D
Entries 88
Mean −0.01573
Std Dev 1.055

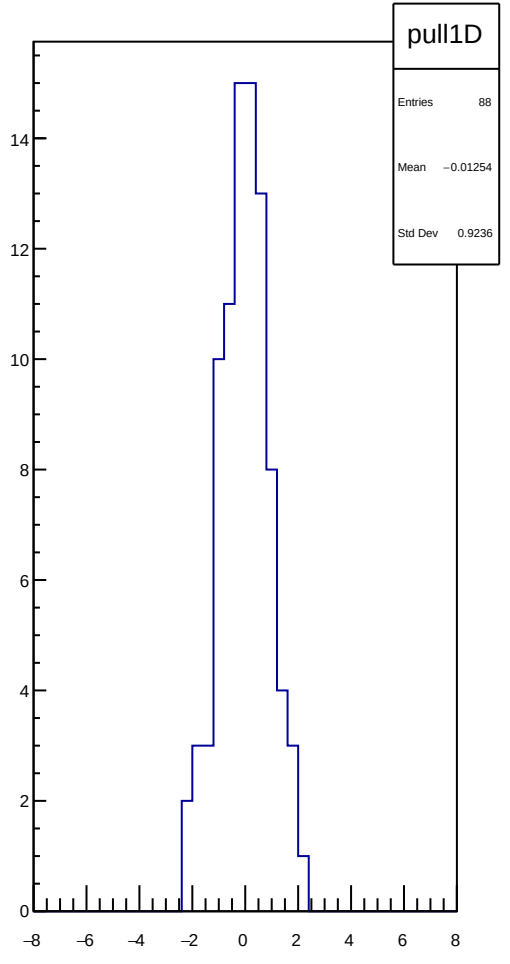

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.24e+04 / 87
p0 157.2 ± 0.122
280
260
240
220
200
180
160
140
120
100

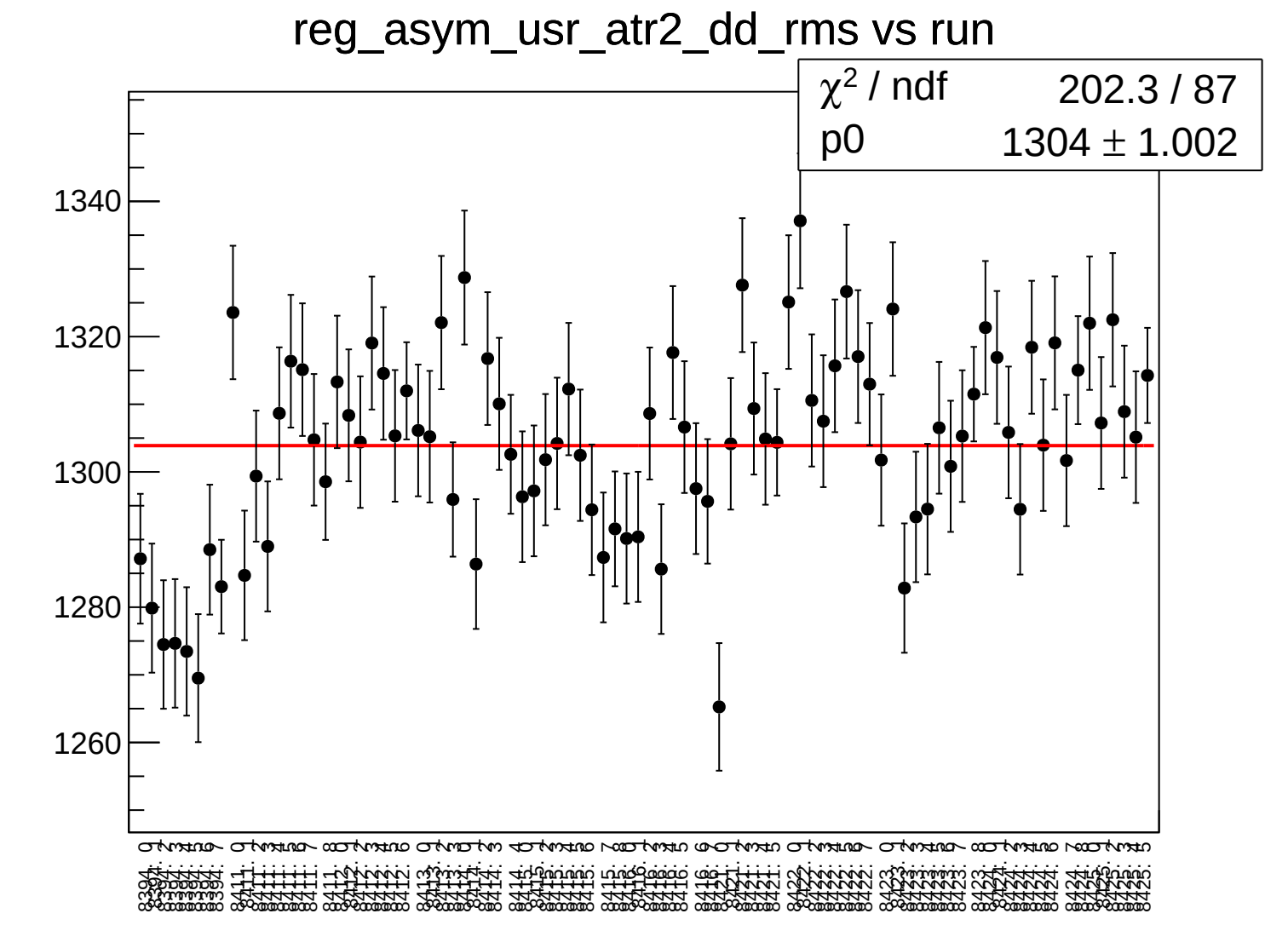

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 98.85 / 87
p0 −1.995e−13 ± 6.368e−13
pull
Entries 88
Mean −197.4
Std Dev 0

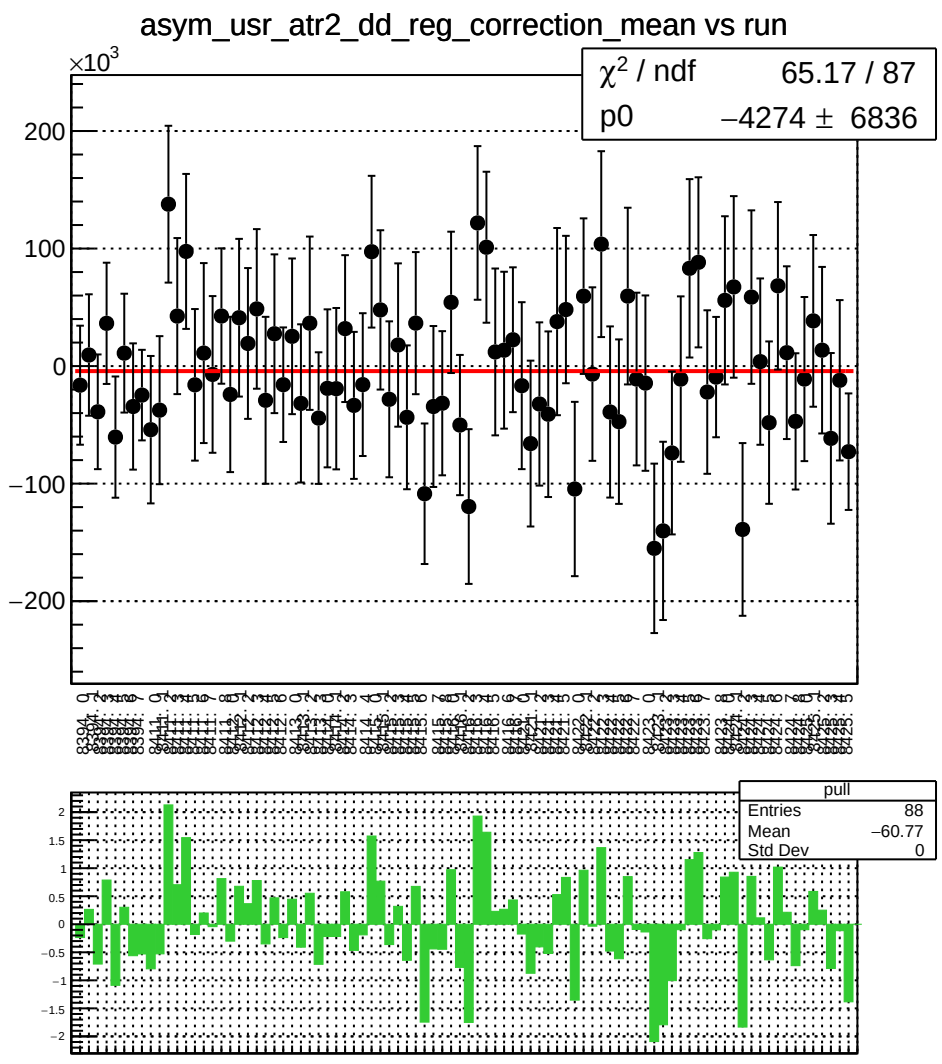

pull1D
Entries 88
Mean 0.007583
Std Dev 1.06

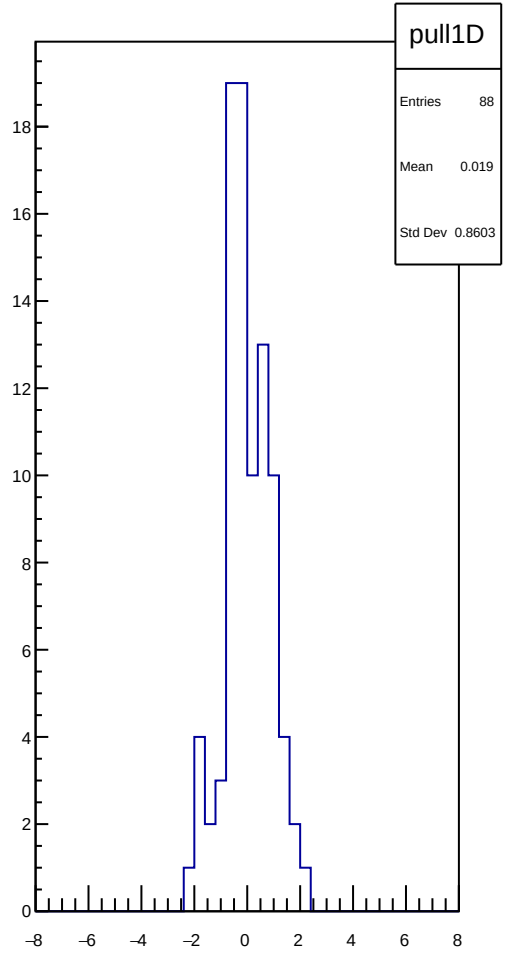

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.134e+05 / 87
p0 4.223e−10 ± 4.503e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

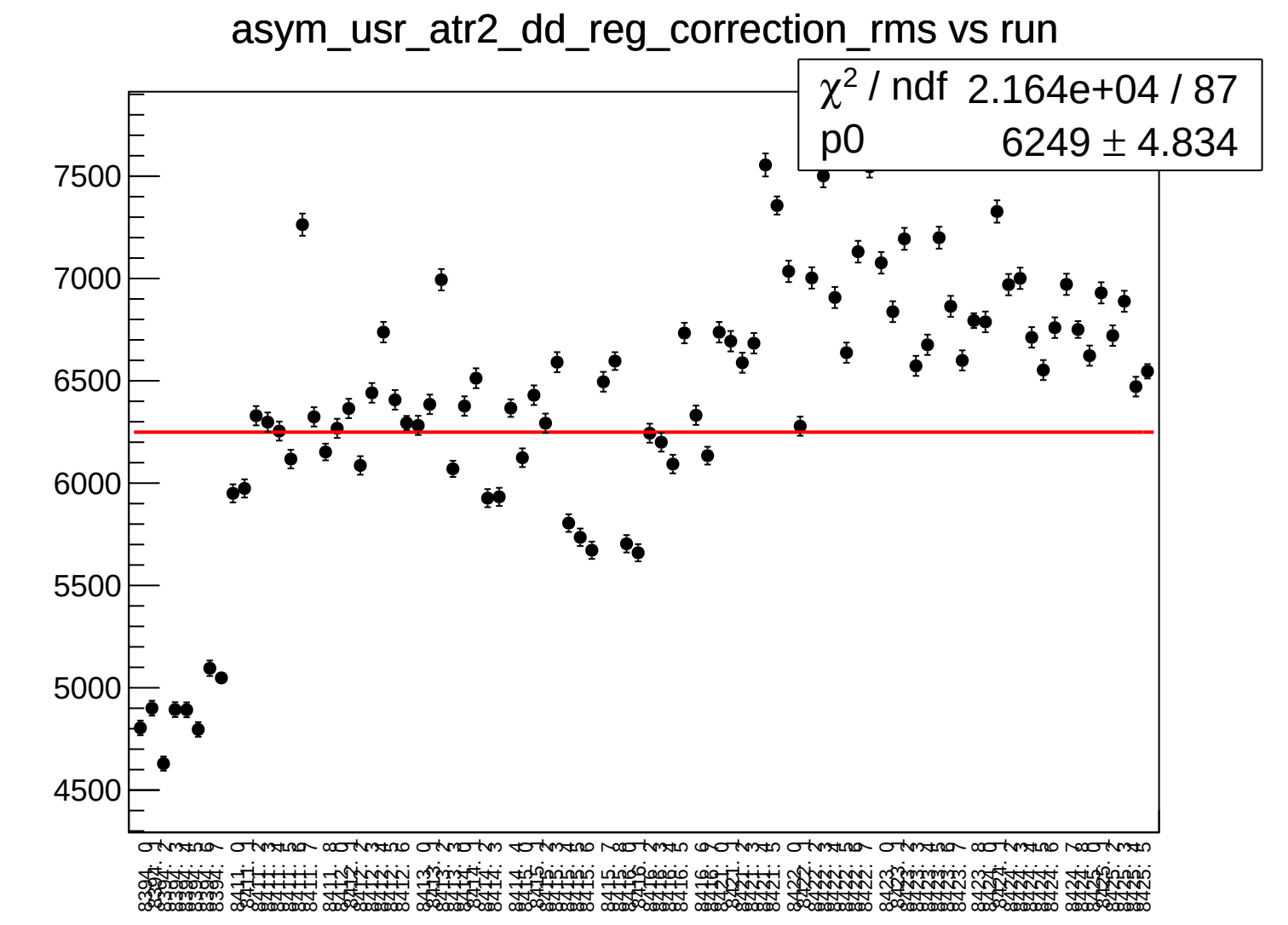

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 75.09 / 87
p0 803.8 ± 1417
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −17.75
Std Dev 43.74
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

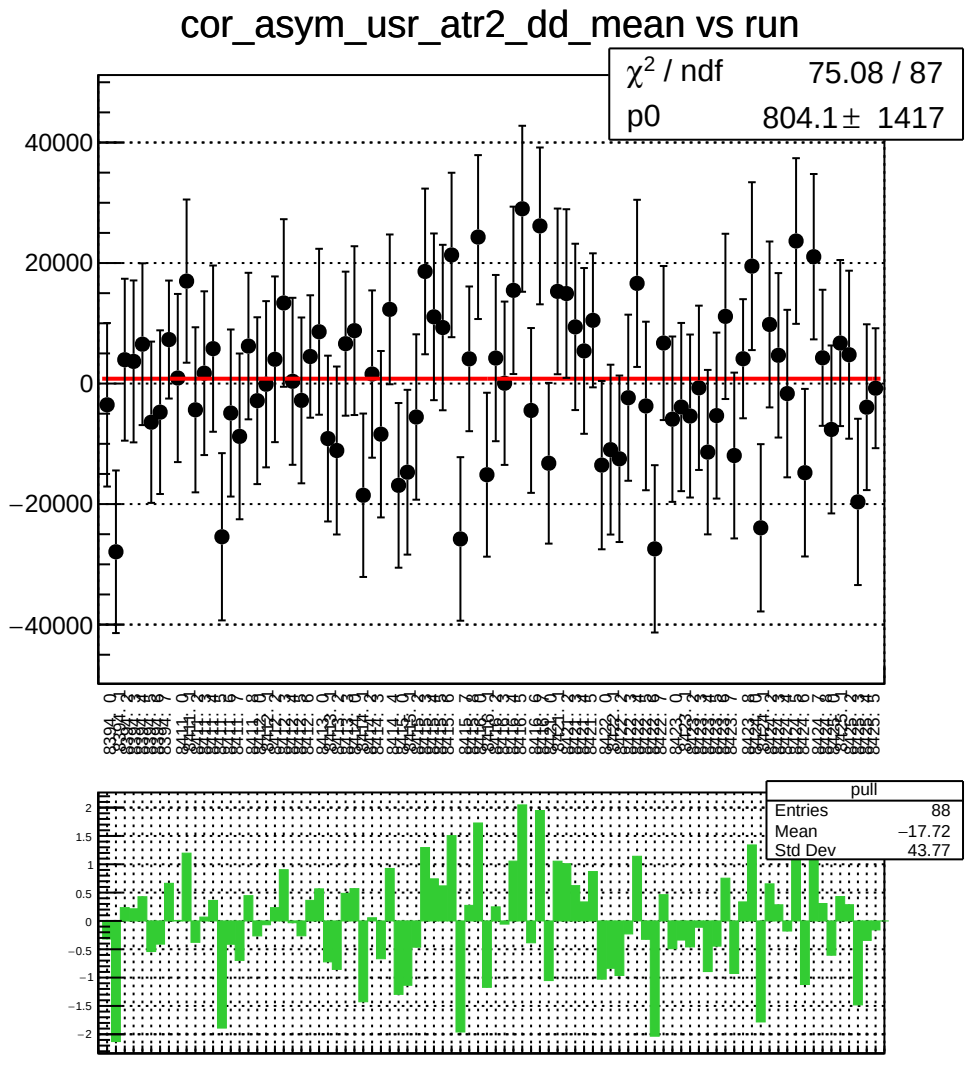

pull1D
Entries 88
Mean −0.01254
Std Dev 0.9236
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

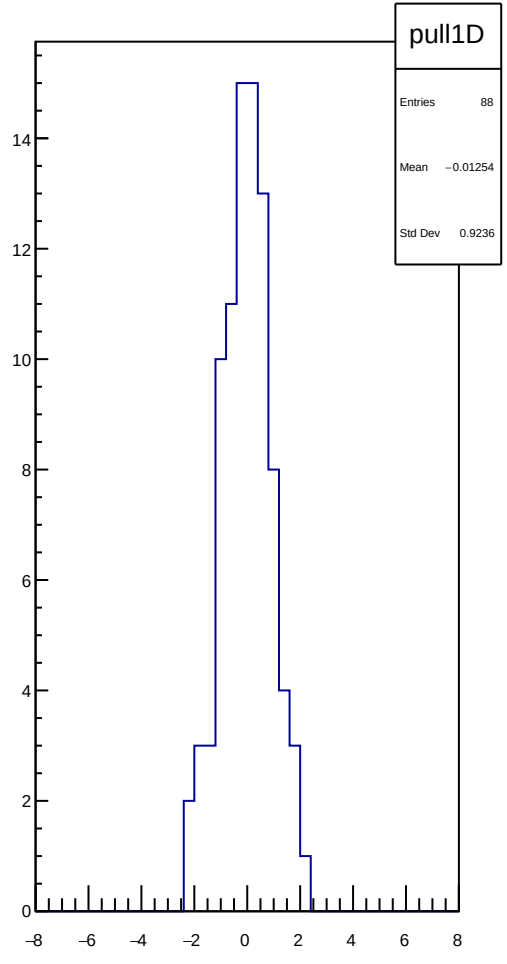

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 202.3 / 87
p0 1304 ± 1.002
1340
1320
1300
1280
1260

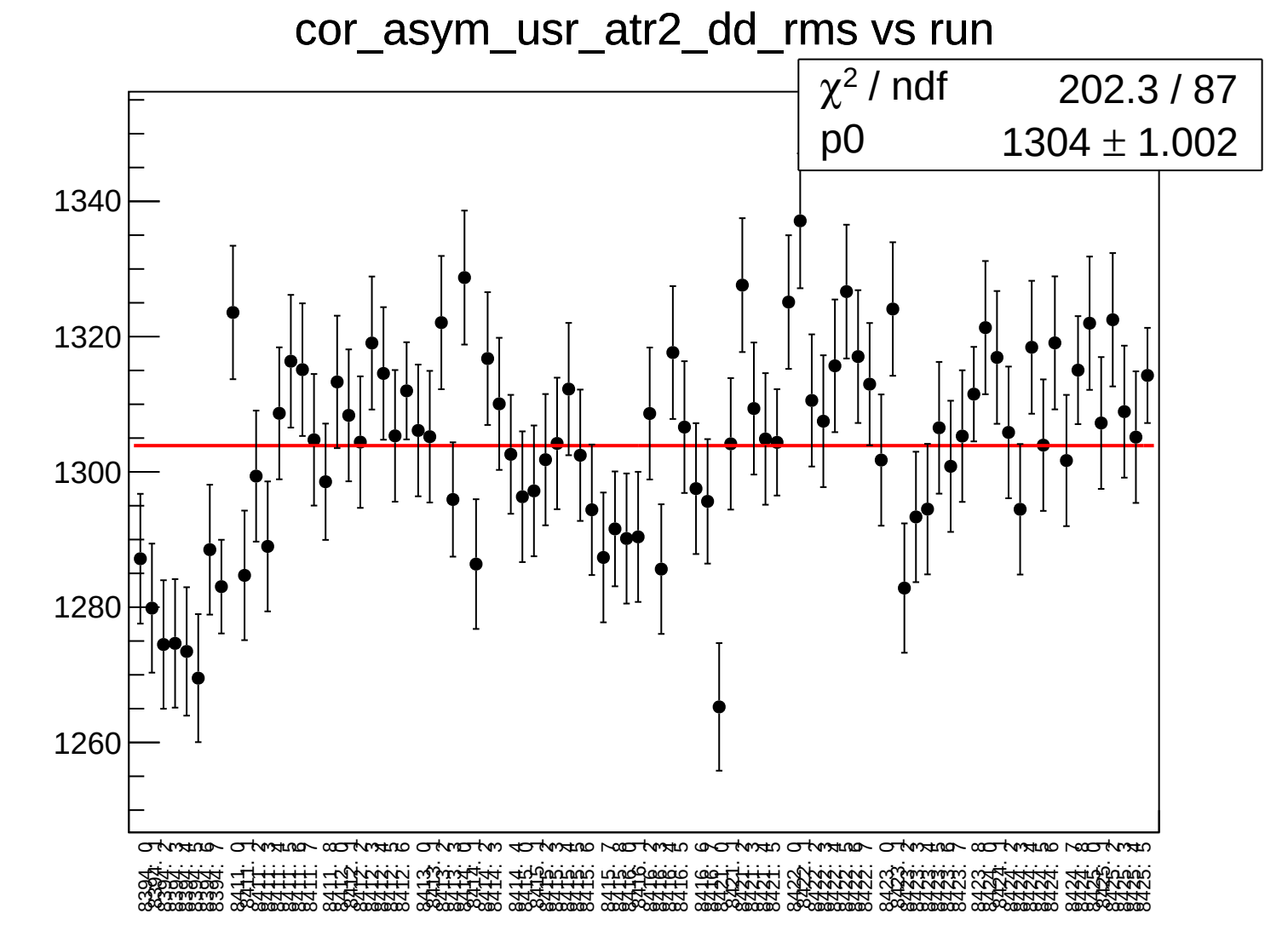

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 65.17 / 87
p0 −4274 ± 6836
200
100
0
−100
−200
pull
Entries 88
Mean −60.77
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

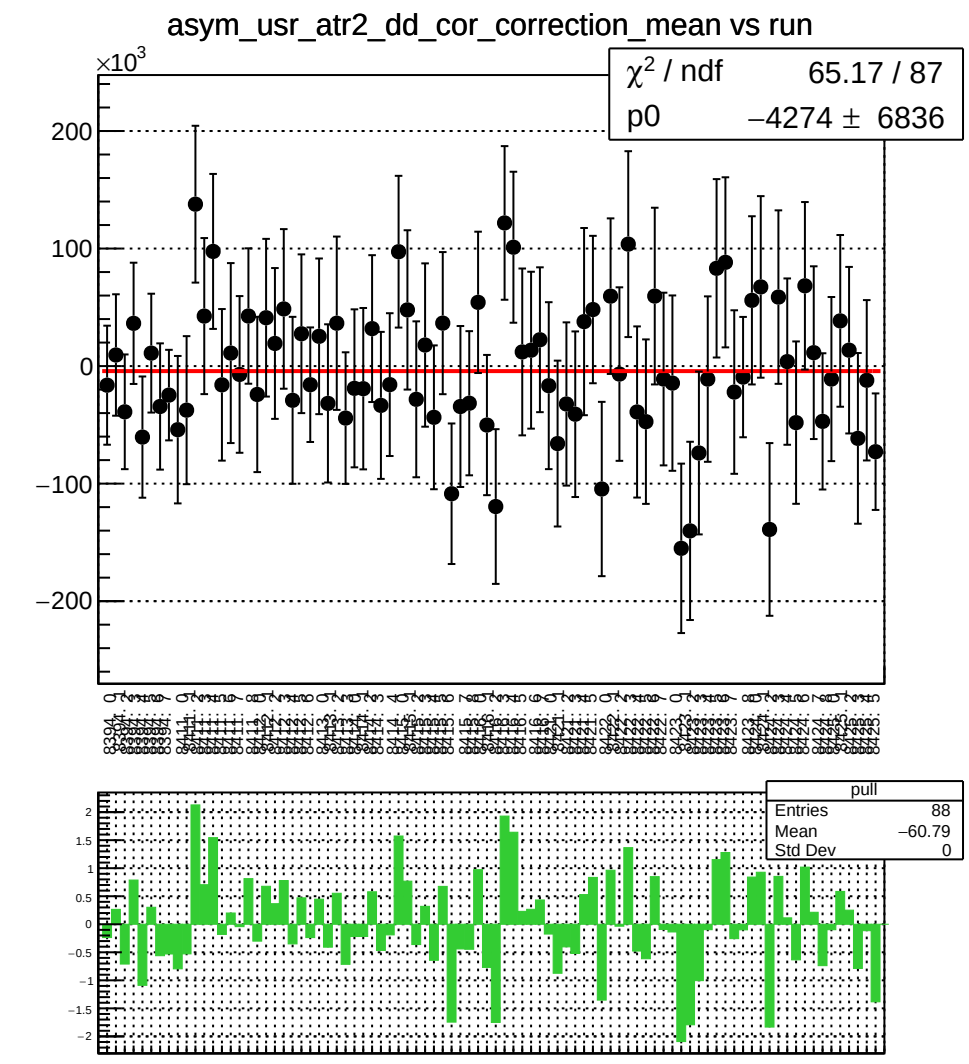

pull1D
Entries 88
Mean 0.019
Std Dev 0.8603
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

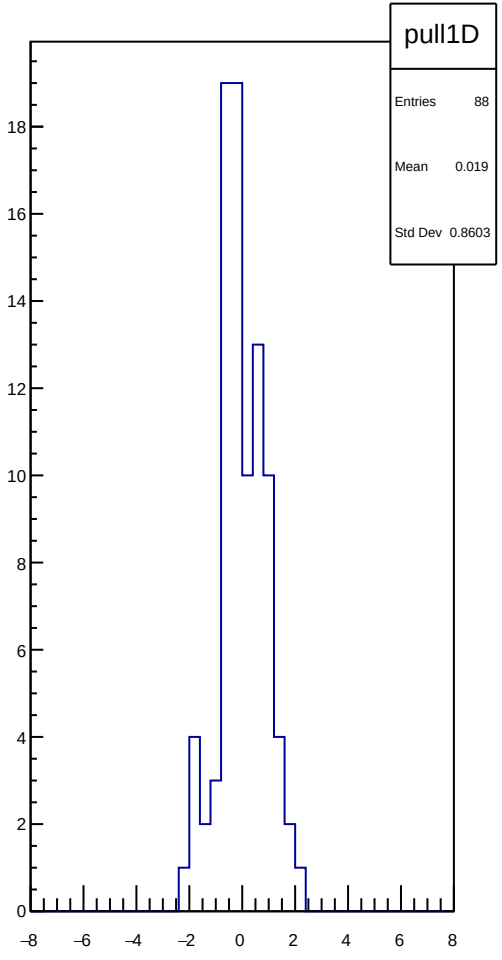

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 2.164e+04 / 87
p0 6249 ± 4.834
7500
7000
6500
6000
5500
5000
4500

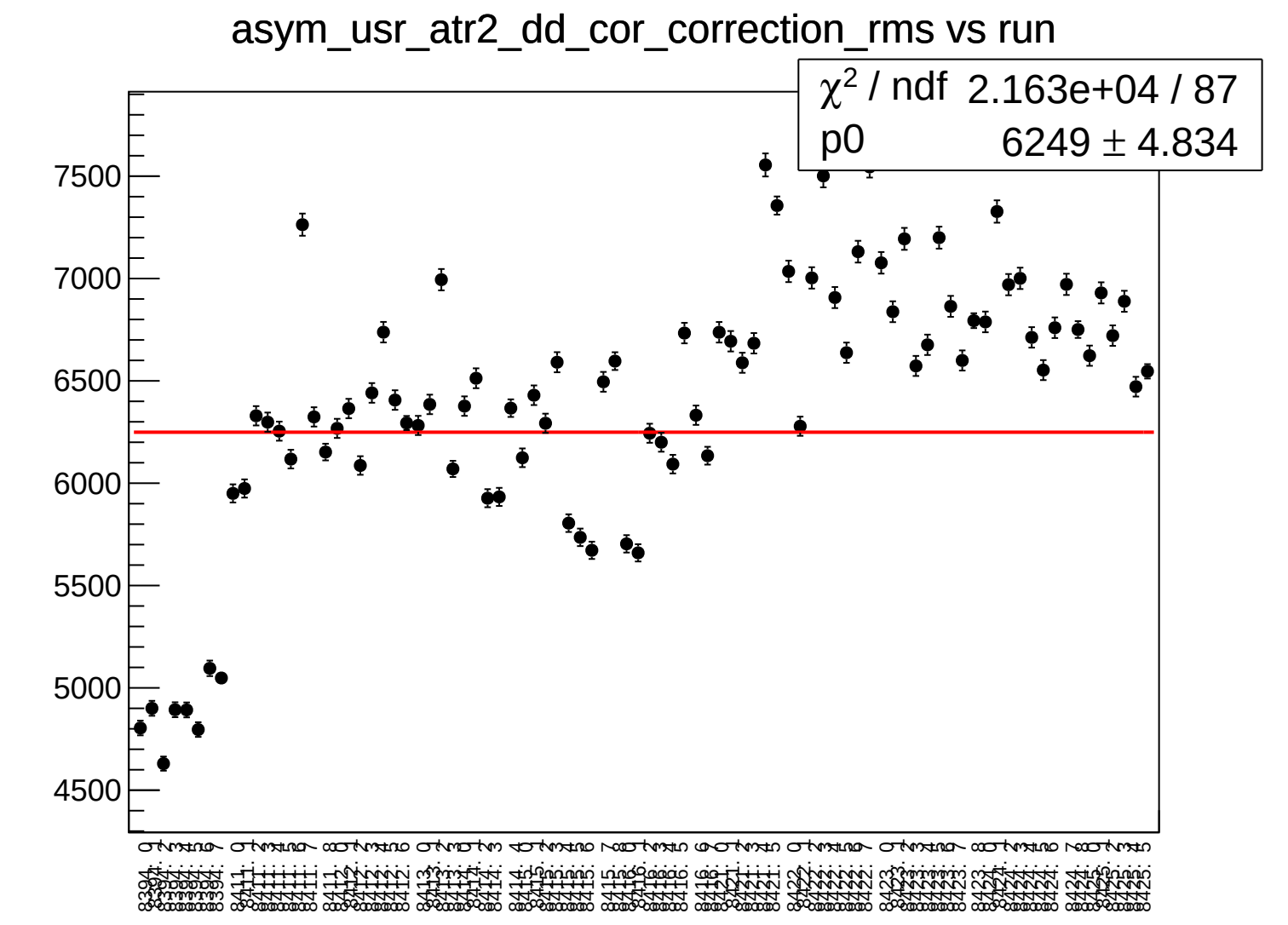

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 75.08 / 87
p0 804.1± 1417
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −17.72
Std Dev 43.77
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

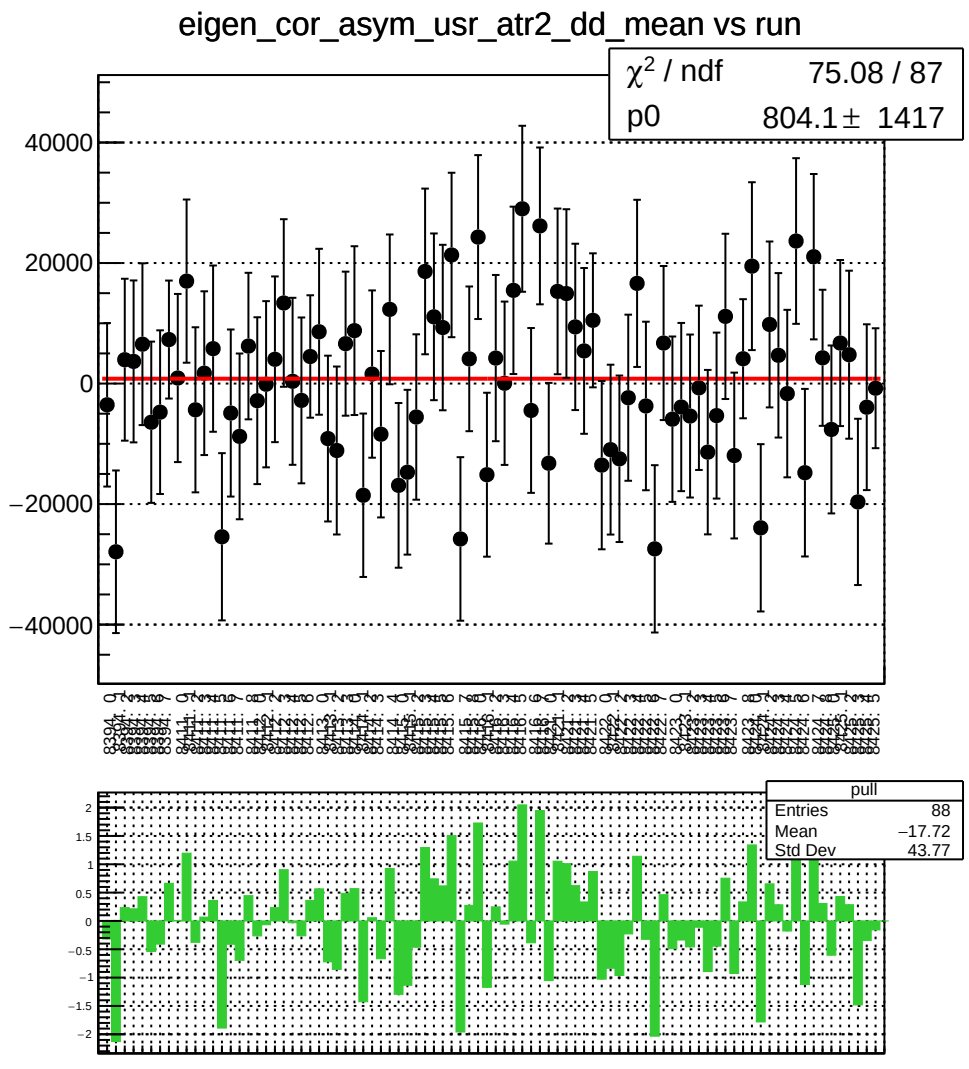

pull1D
Entries 88
Mean −0.01254
Std Dev 0.9236
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

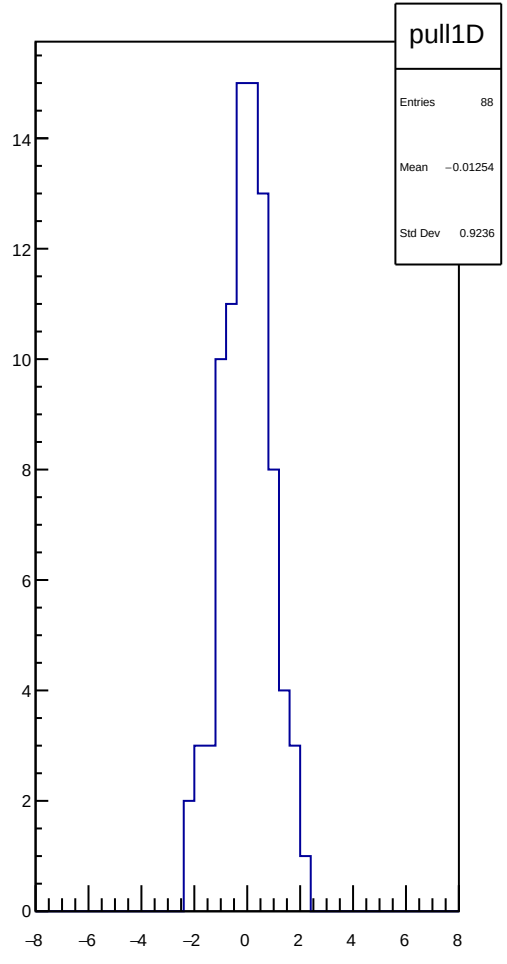

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 202.3 / 87
p0 1304 ± 1.002
1340
1320
1300
1280
1260

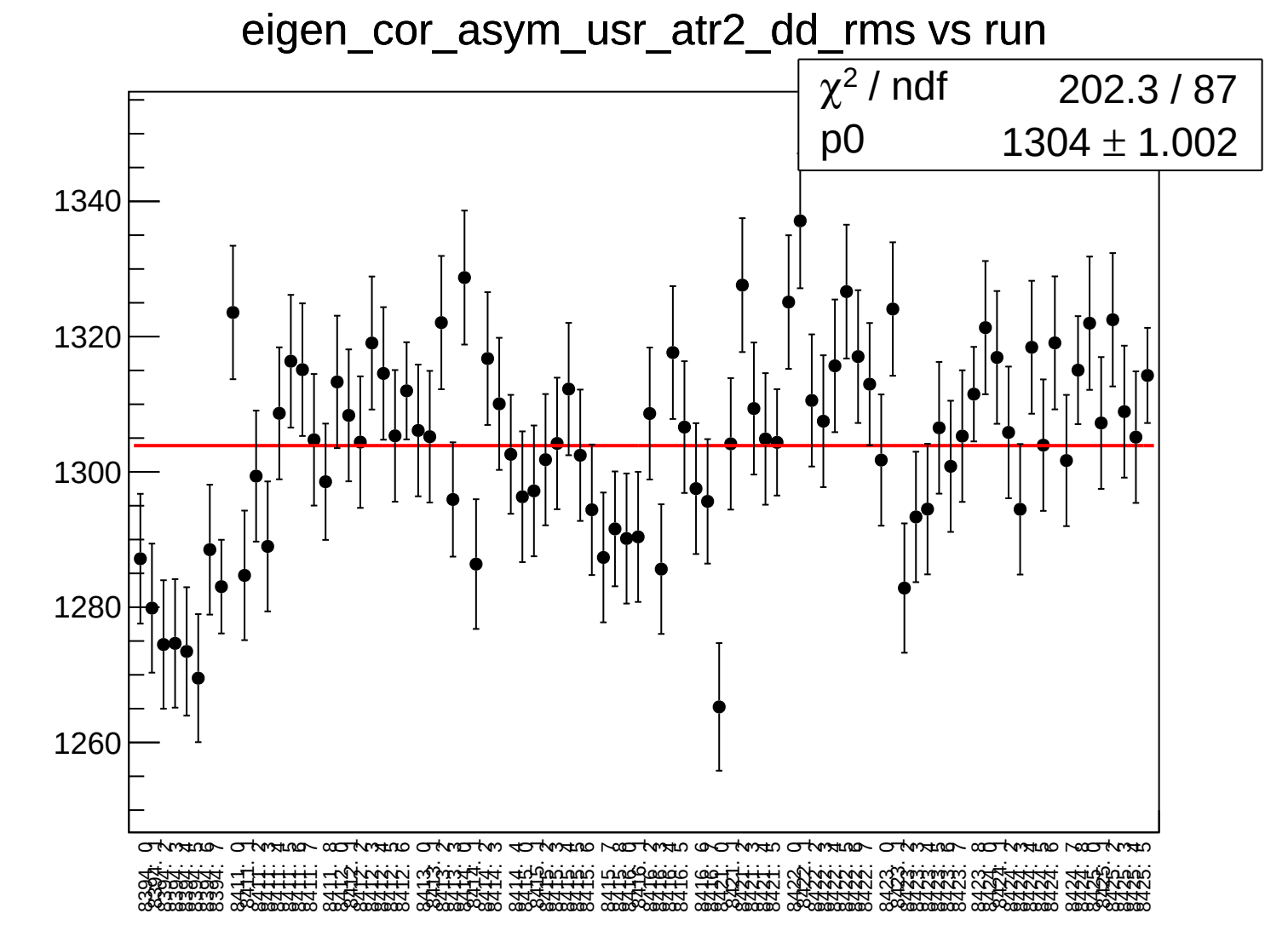

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 65.17 / 87
p0 −4274 ± 6836
200
100
0
−100
−200
pull
Entries 88
Mean −60.79
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

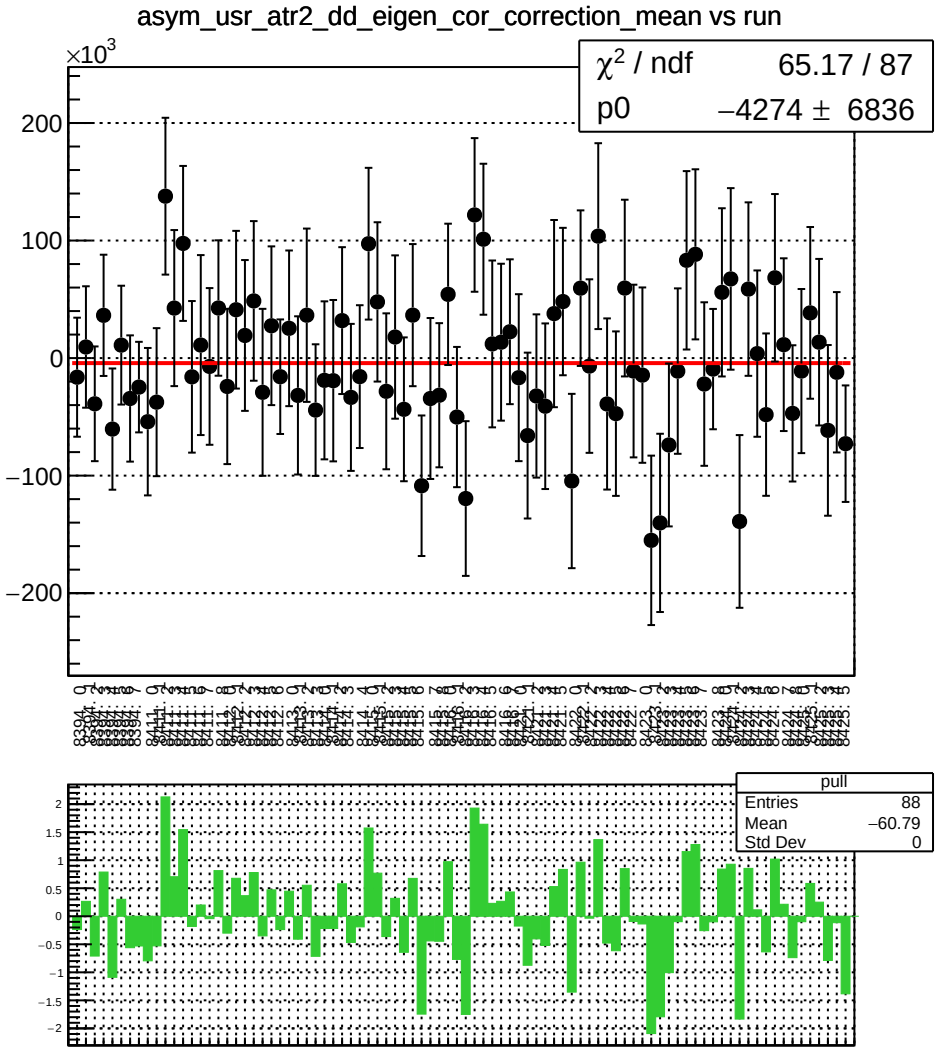

pull1D
Entries 88
Mean 0.019
Std Dev 0.8603
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

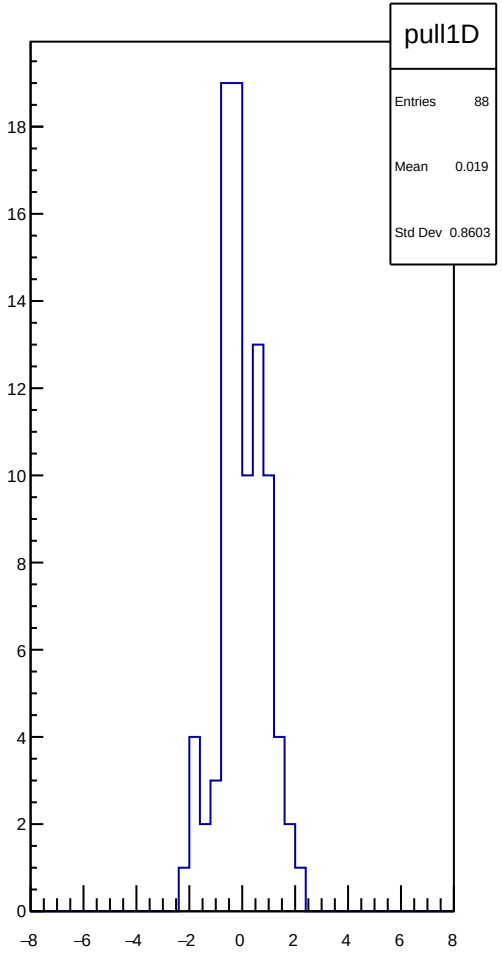

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 2.163e+04 / 87
p0 6249 ± 4.834
7500
7000
6500
6000
5500
5000
4500

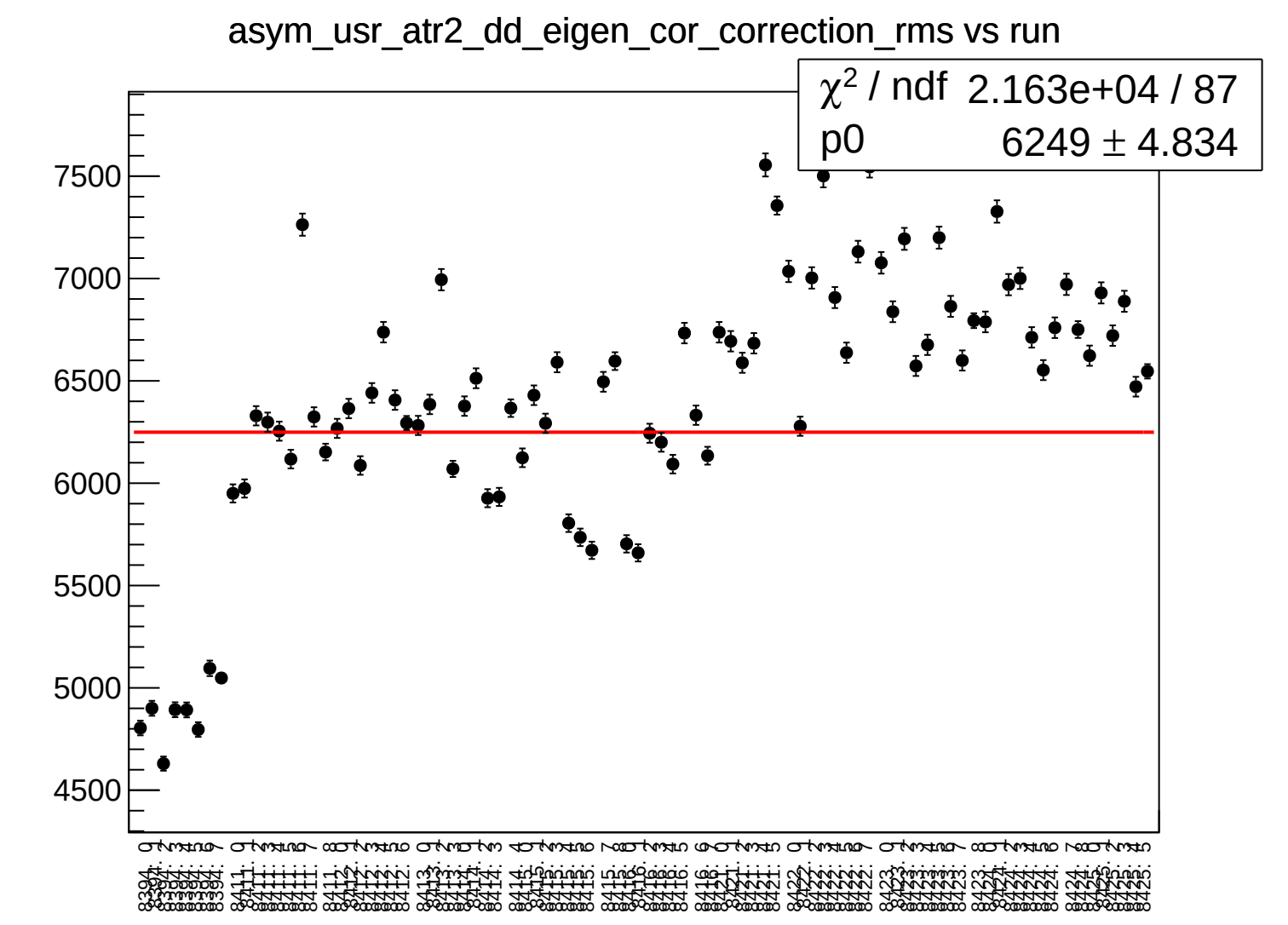

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 75.08 / 87
p0 804.1 ± 1417
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −17.72
Std Dev 43.77
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

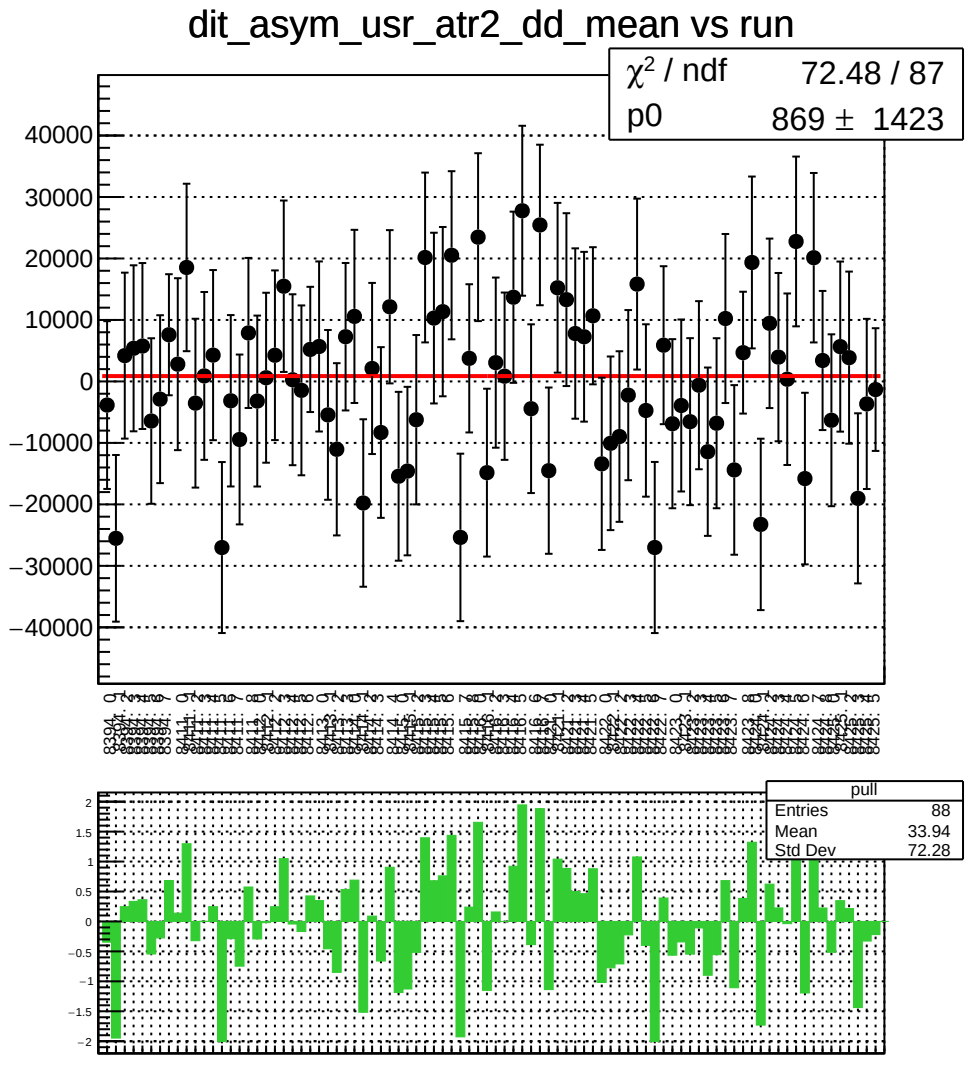

pull1D
Entries 88
Mean −0.01254
Std Dev 0.9236
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

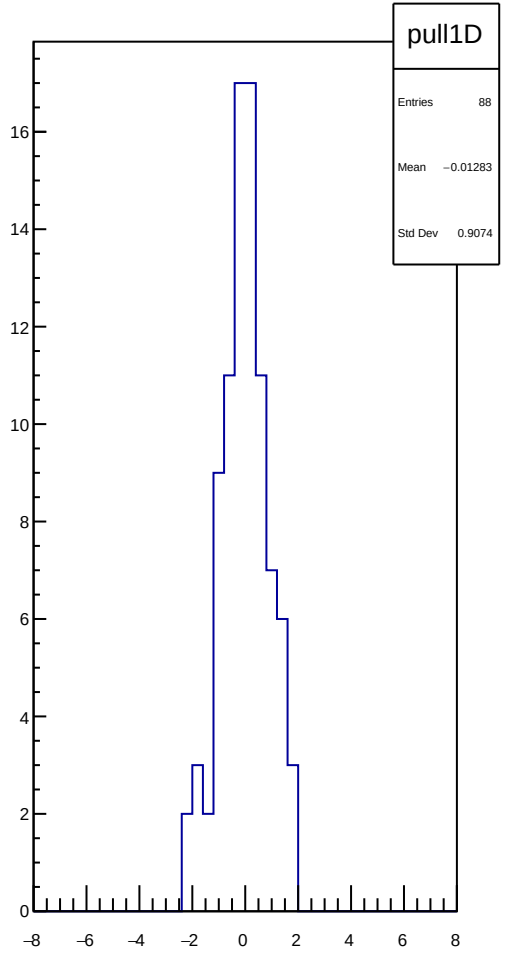

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 202.3 / 87
p0 1304 ± 1.002
1340
1320
1300
1280
1260

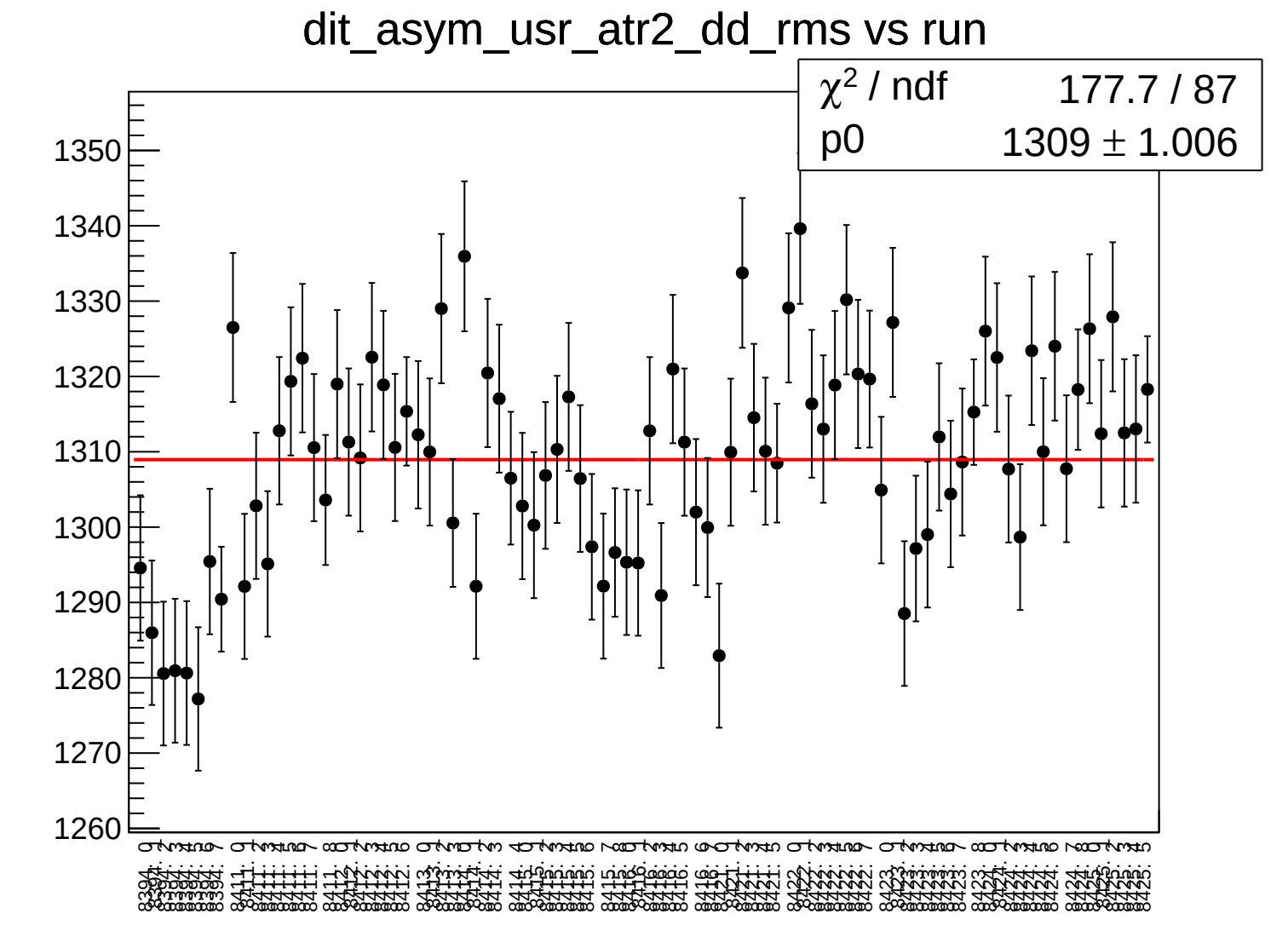

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 65.17 / 87
p0 −4274 ± 6836
200
100
0
−100
−200
pull
Entries 88
Mean −60.79
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

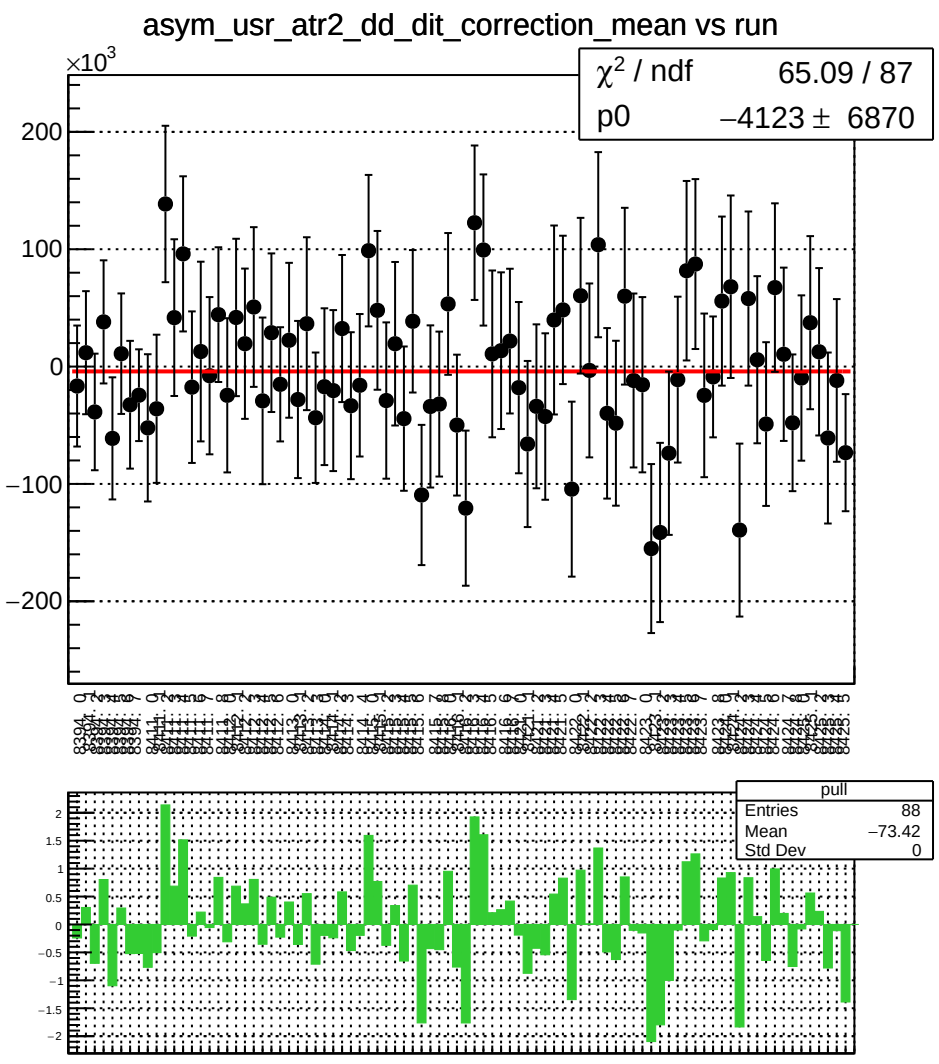

pull1D
Entries 88
Mean 0.019
Std Dev 0.8603
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

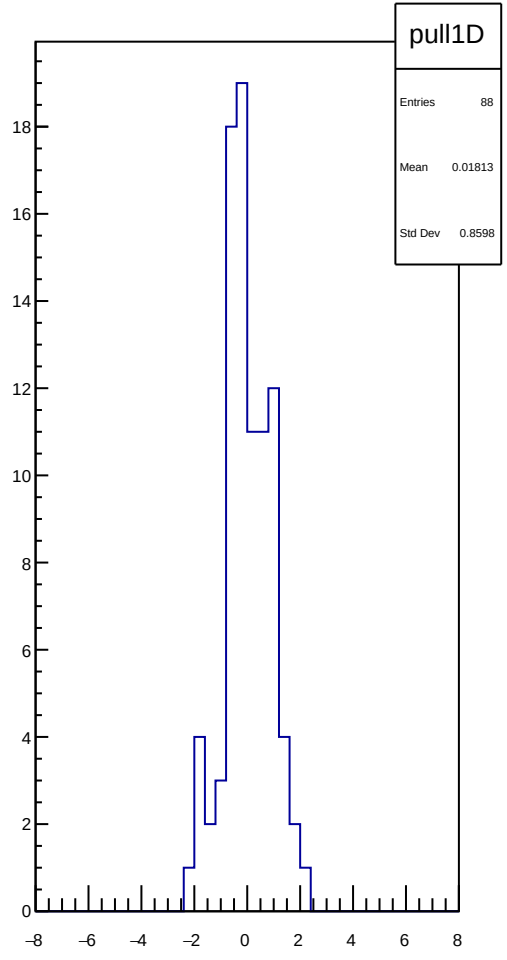

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.163e+04 / 87
p0 6249 ± 4.834
7500
7000
6500
6000
5500
5000
4500

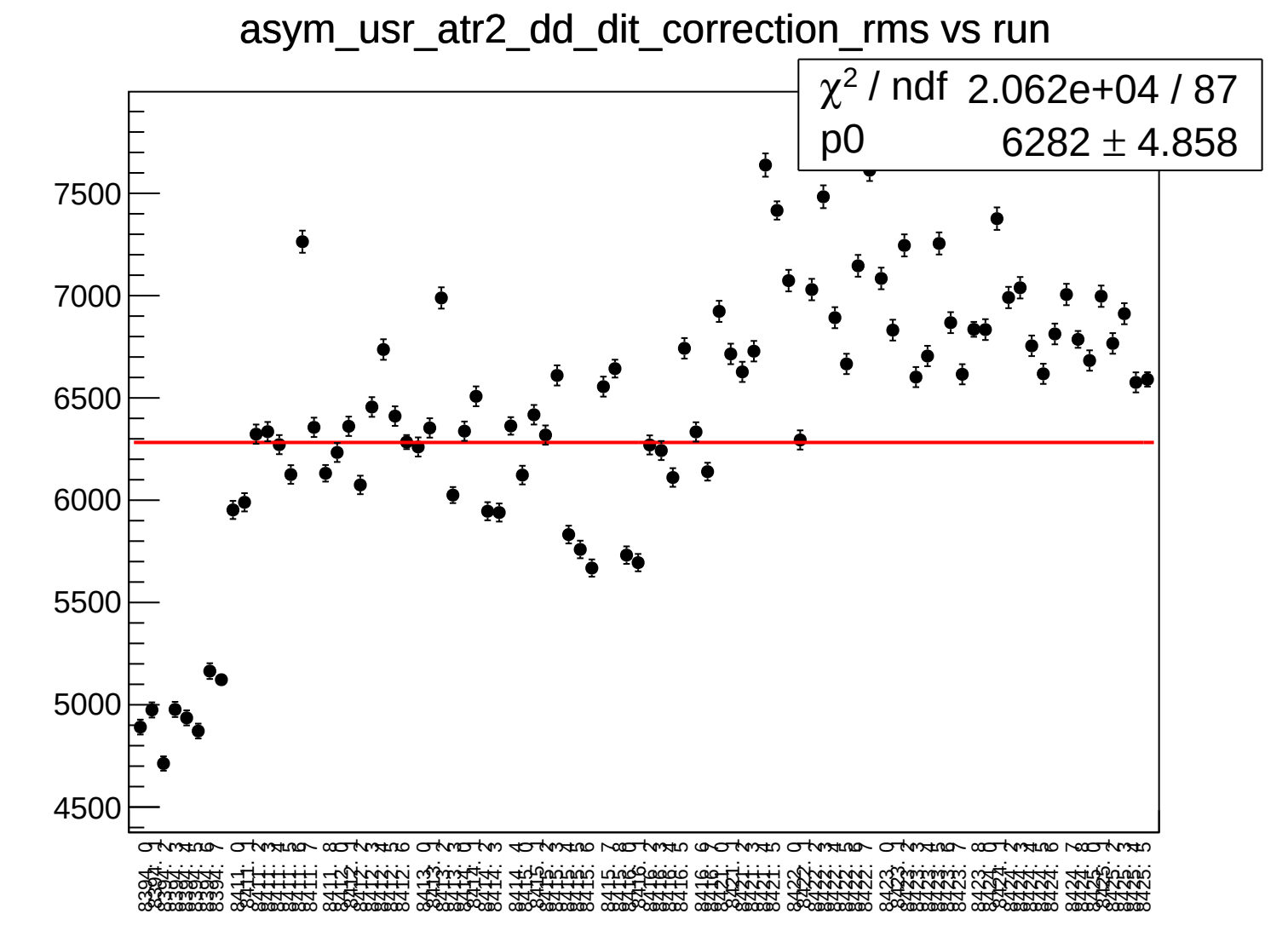

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 72.48 / 87
p0 869 ± 1423
pull
Entries 88
Mean 33.94
Std Dev 72.28

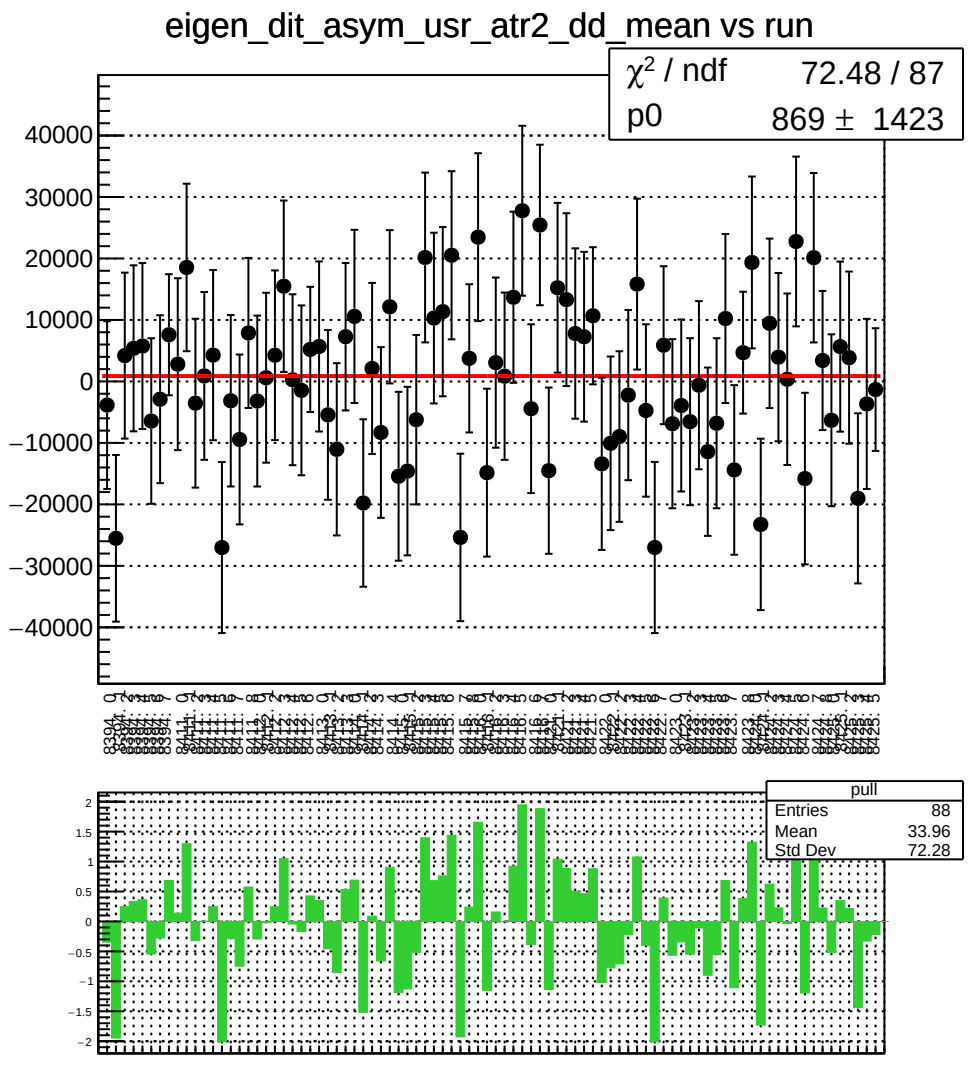

pull1D
Entries 88
Mean −0.01283
Std Dev 0.9074

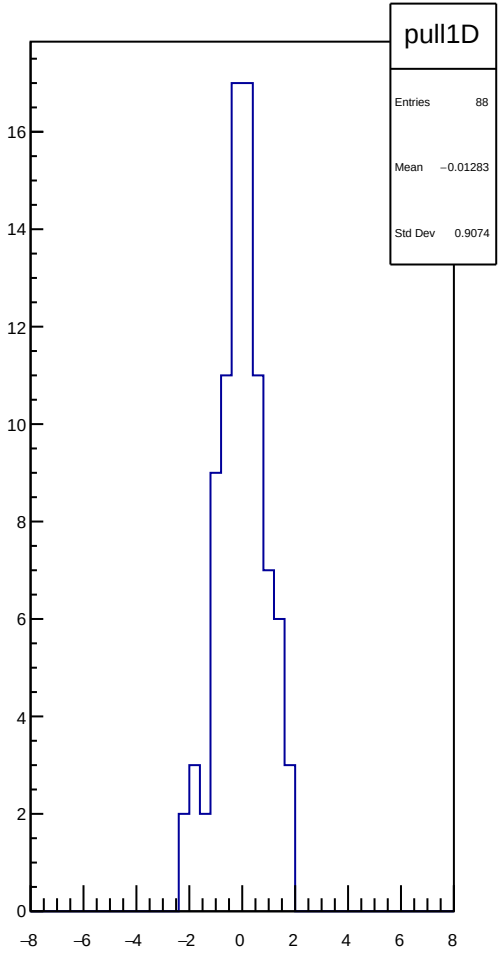

dit_asym_usr_atr2_dd_rms vs run
χ^2 / ndf 177.7 / 87
p0 1309 ± 1.006
1350
1340
1330
1320
1310
1300
1290
1280
1270
1260

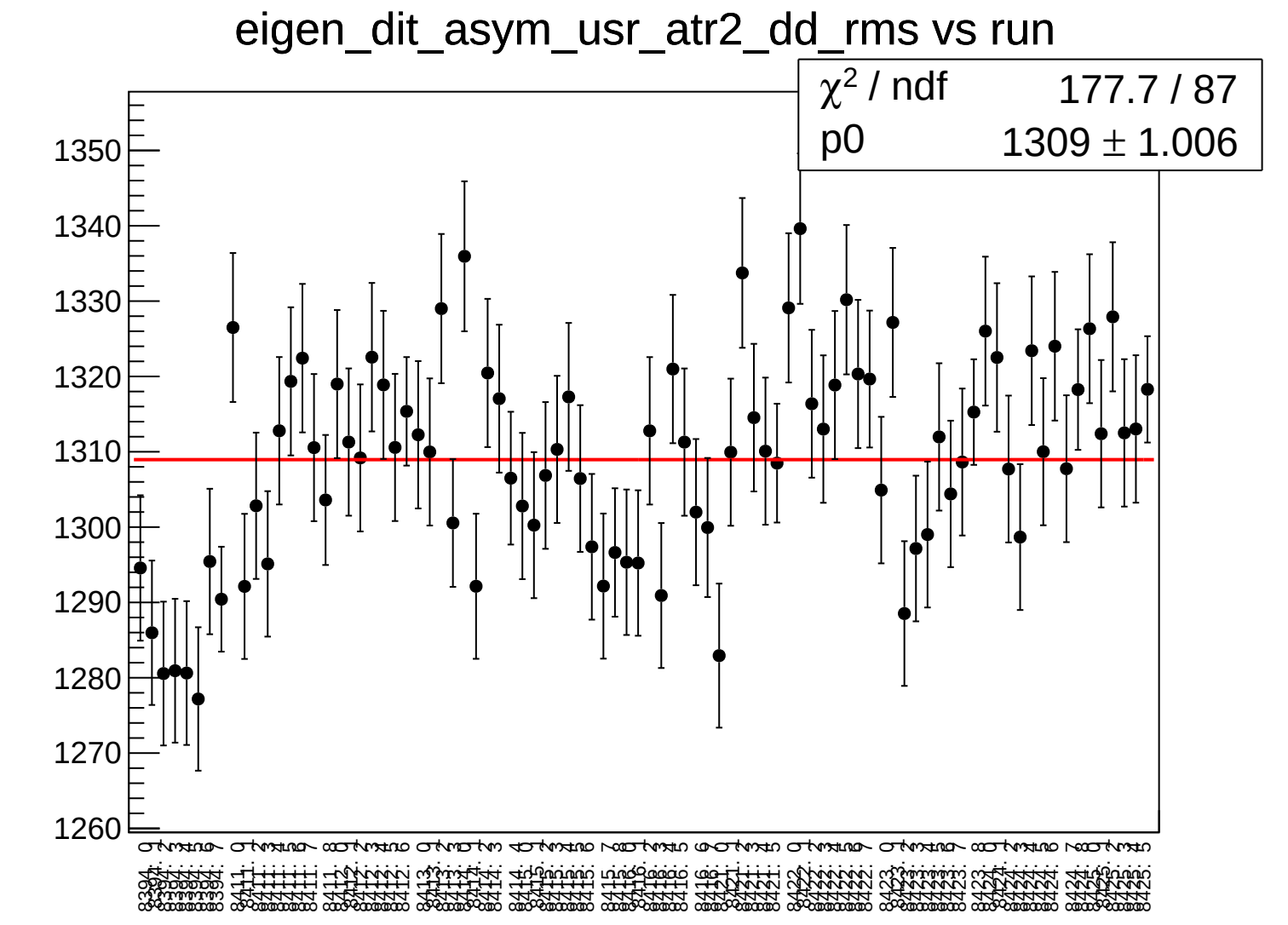

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 65.09 / 87
p0 −4123 ± 6870
200
100
0
−100
−200
pull
Entries 88
Mean −73.42
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

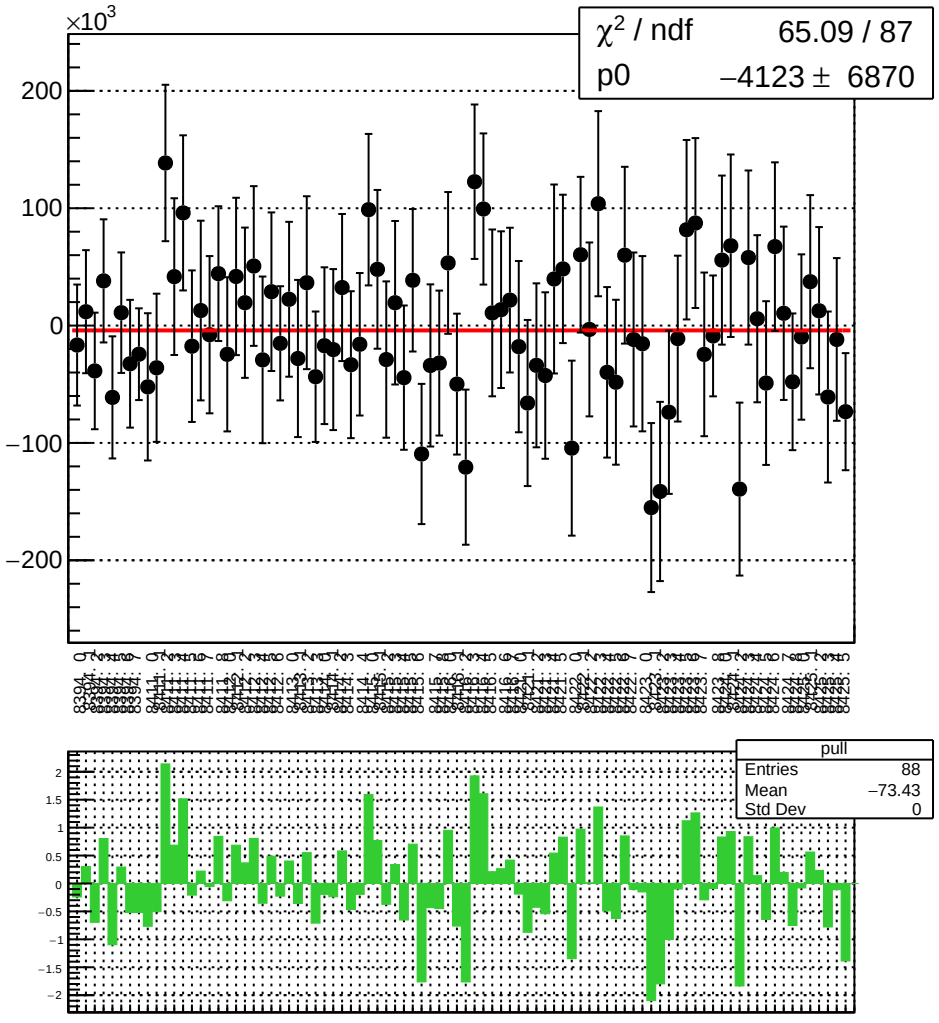

pull1D
Entries 88
Mean 0.01813
Std Dev 0.8598
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

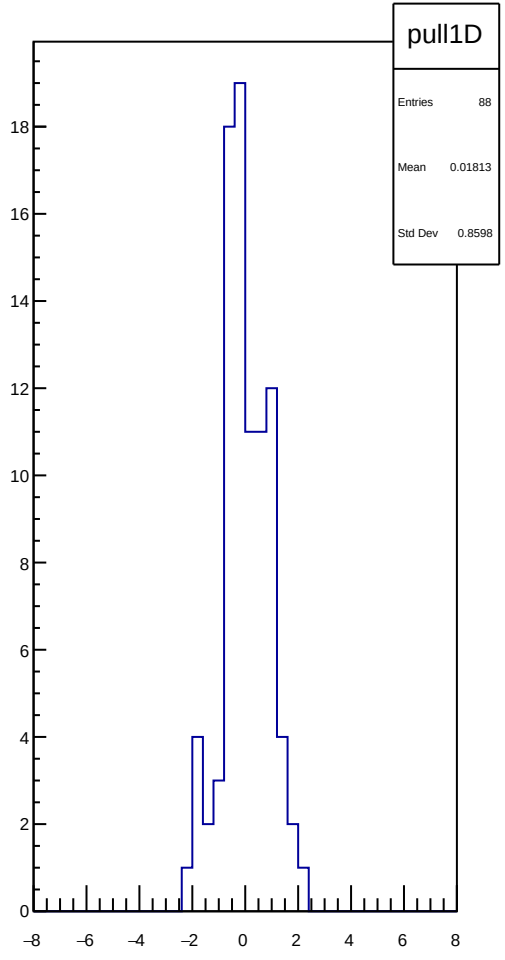

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 2.062e+04 / 87
p0 6282 ± 4.858
7500
7000
6500
6000
5500
5000
4500

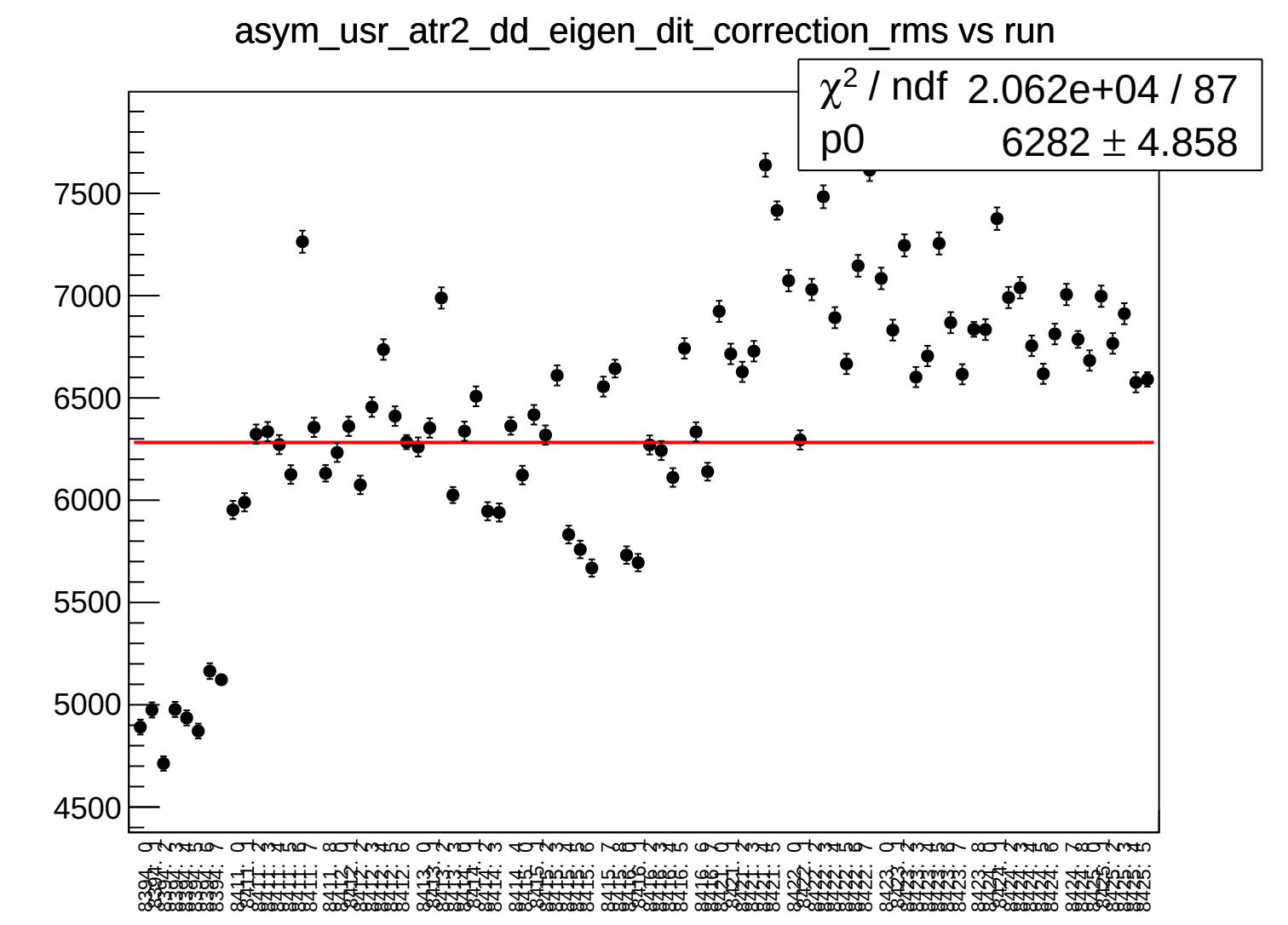

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 72.48 / 87
p0 869 ± 1423
pull
Entries 88
Mean 33.96
Std Dev 72.28

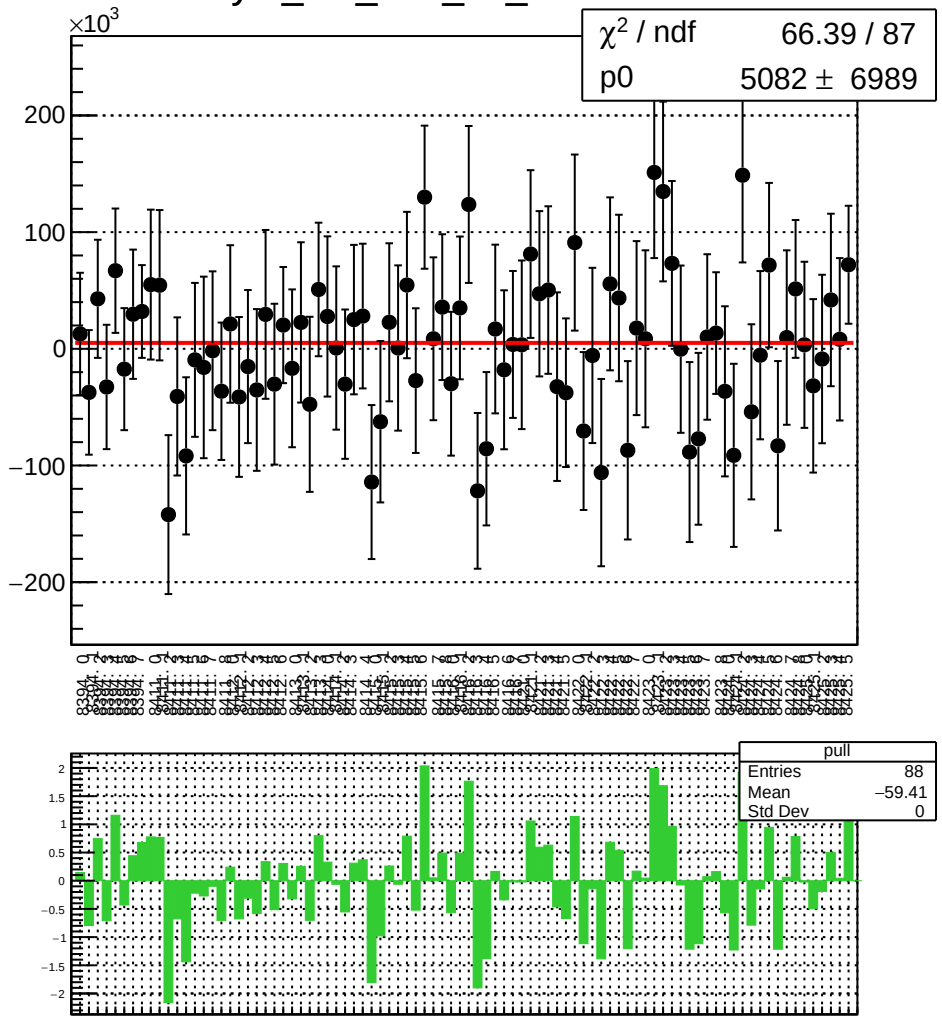

pull1D
Entries 88
Mean −0.01283
Std Dev 0.9074

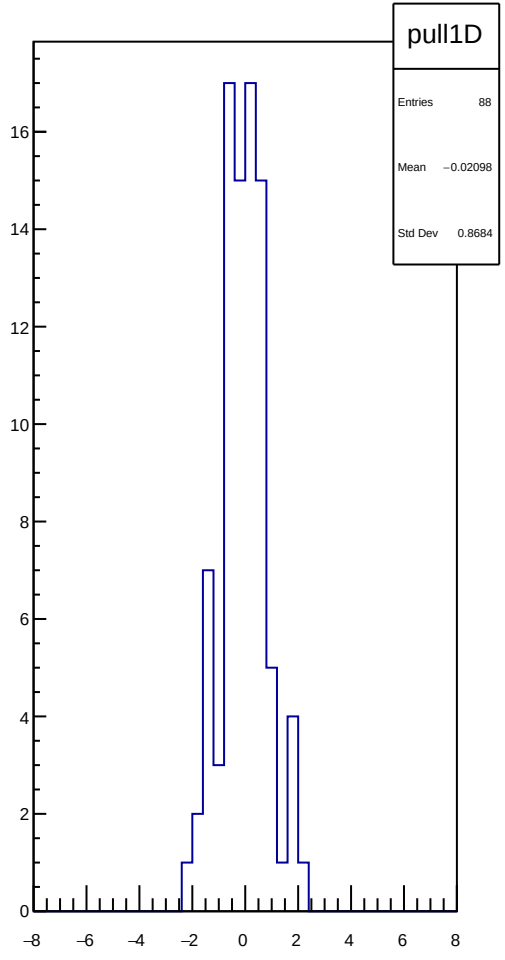

eigen_dit_asym_usr_atr2_dd_rms vs run
χ^2 / ndf 177.7 / 87
p0 1309 ± 1.006
1350
1340
1330
1320
1310
1300
1290
1280
1270
1260

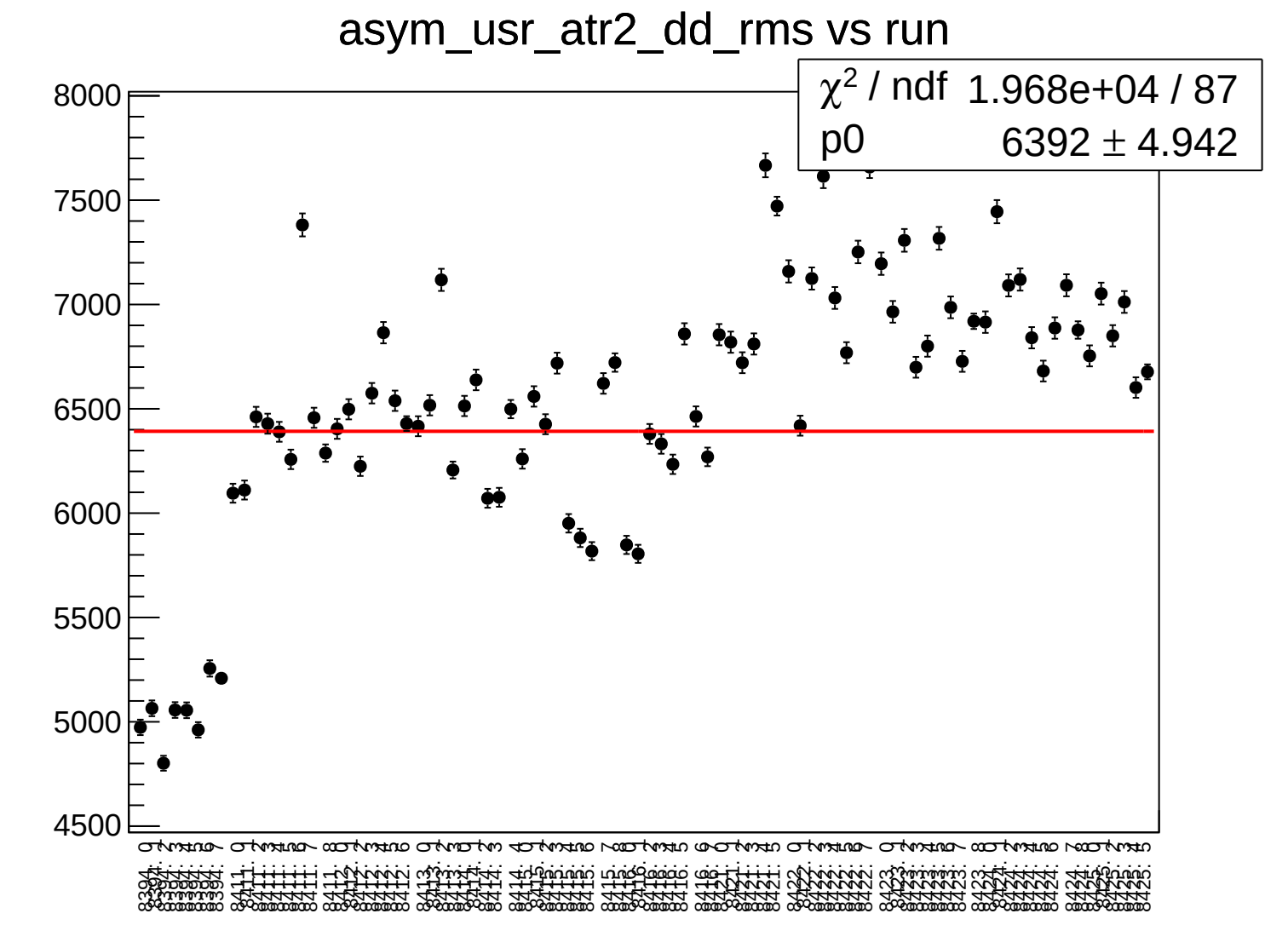

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 65.09 / 87
p0 −4123 ± 6870
200
100
0
−100
−200
pull
Entries 88
Mean −73.43
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

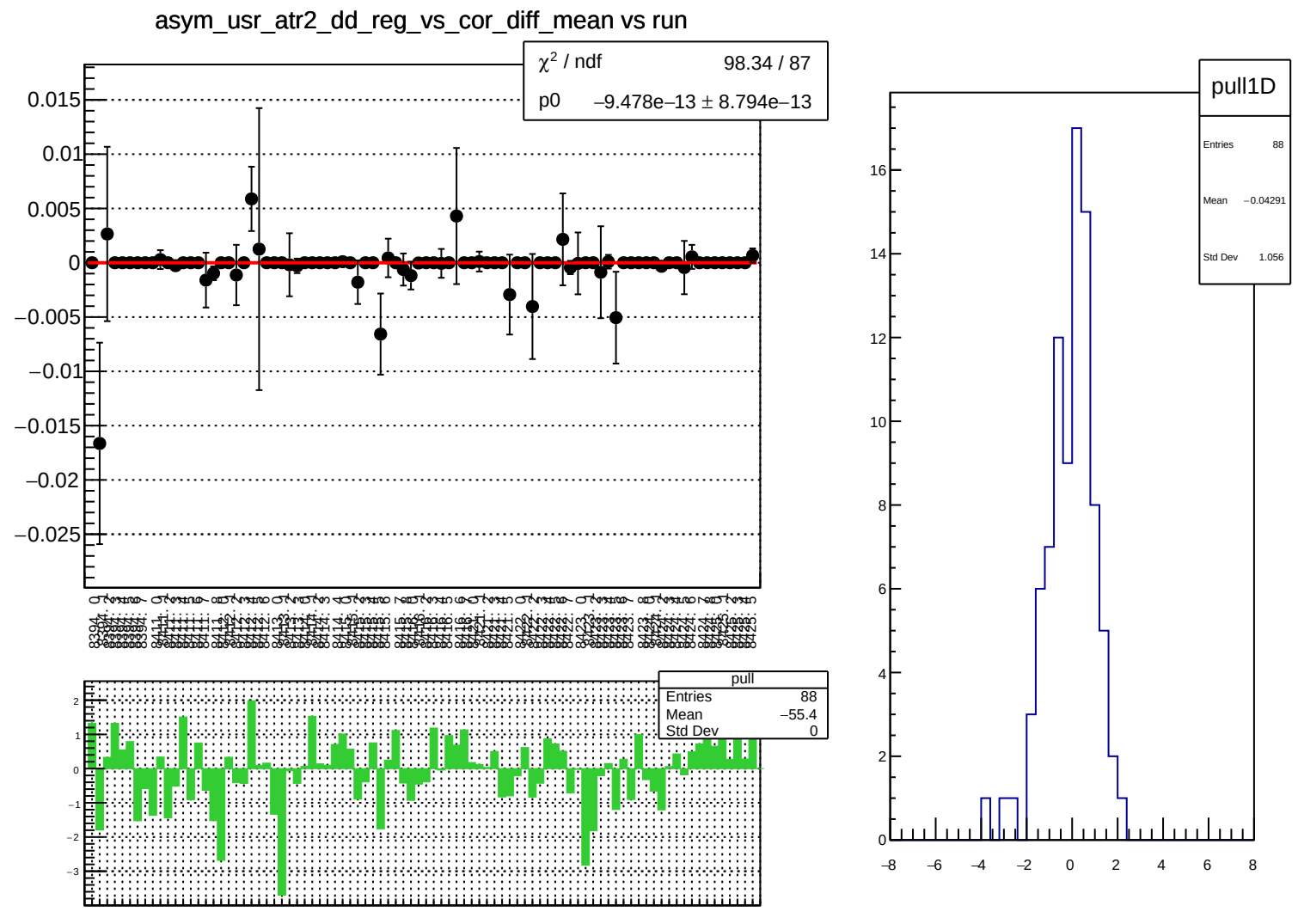

pull1D
Entries 88
Mean 0.01813
Std Dev 0.8598
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

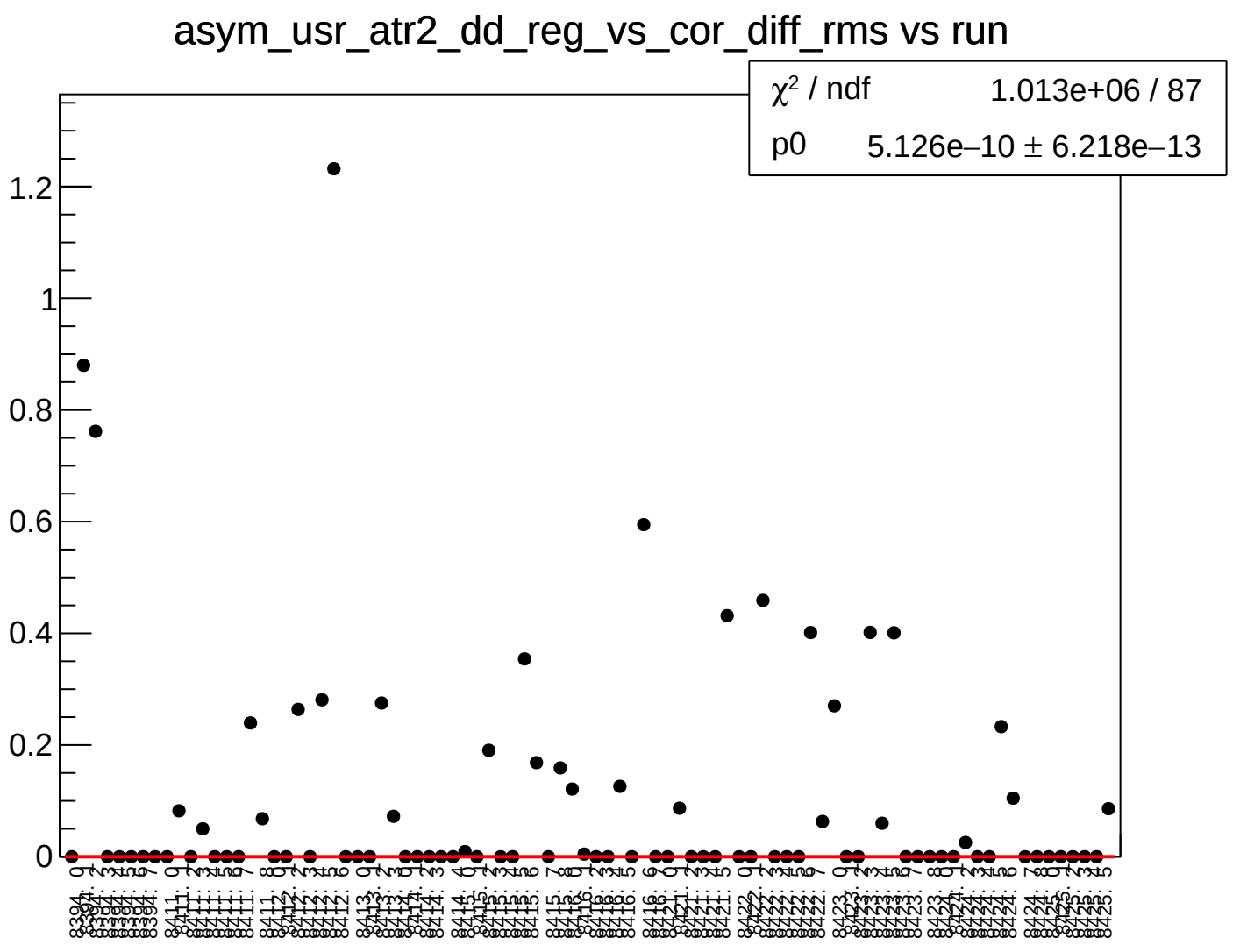

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.062e+04 / 87
p0 6282 ± 4.858
7500
7000
6500
6000
5500
5000
4500

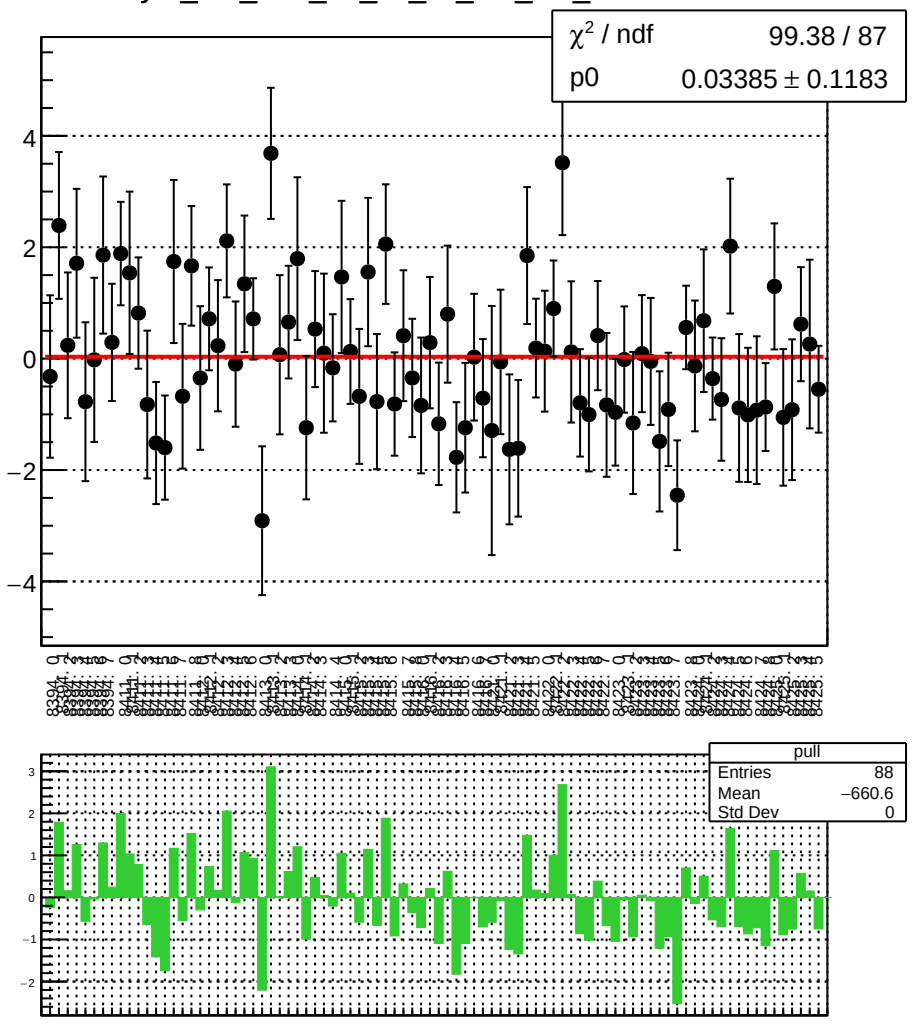

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 66.39 / 87
p0 5082 ± 6989
200
100
0
−100
−200
pull
Entries 88
Mean −59.41
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

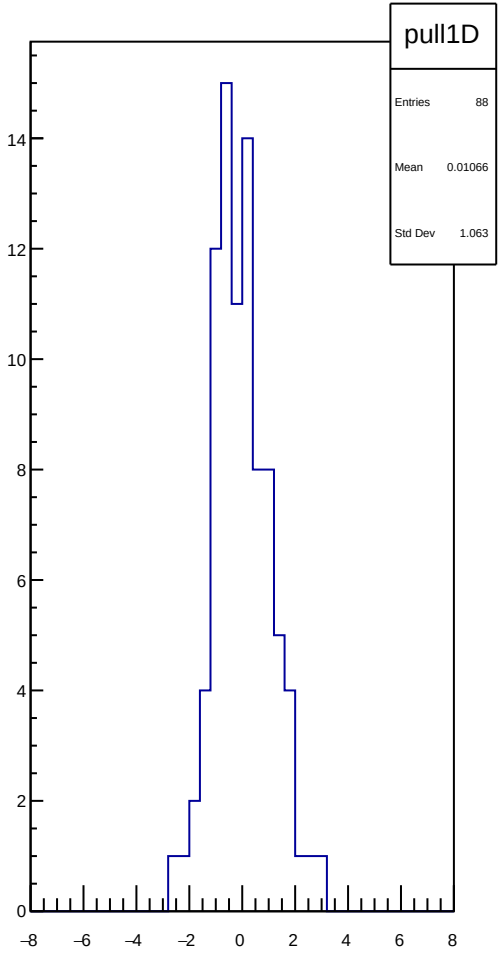

pull1D
Entries 88
Mean −0.02098
Std Dev 0.8684
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

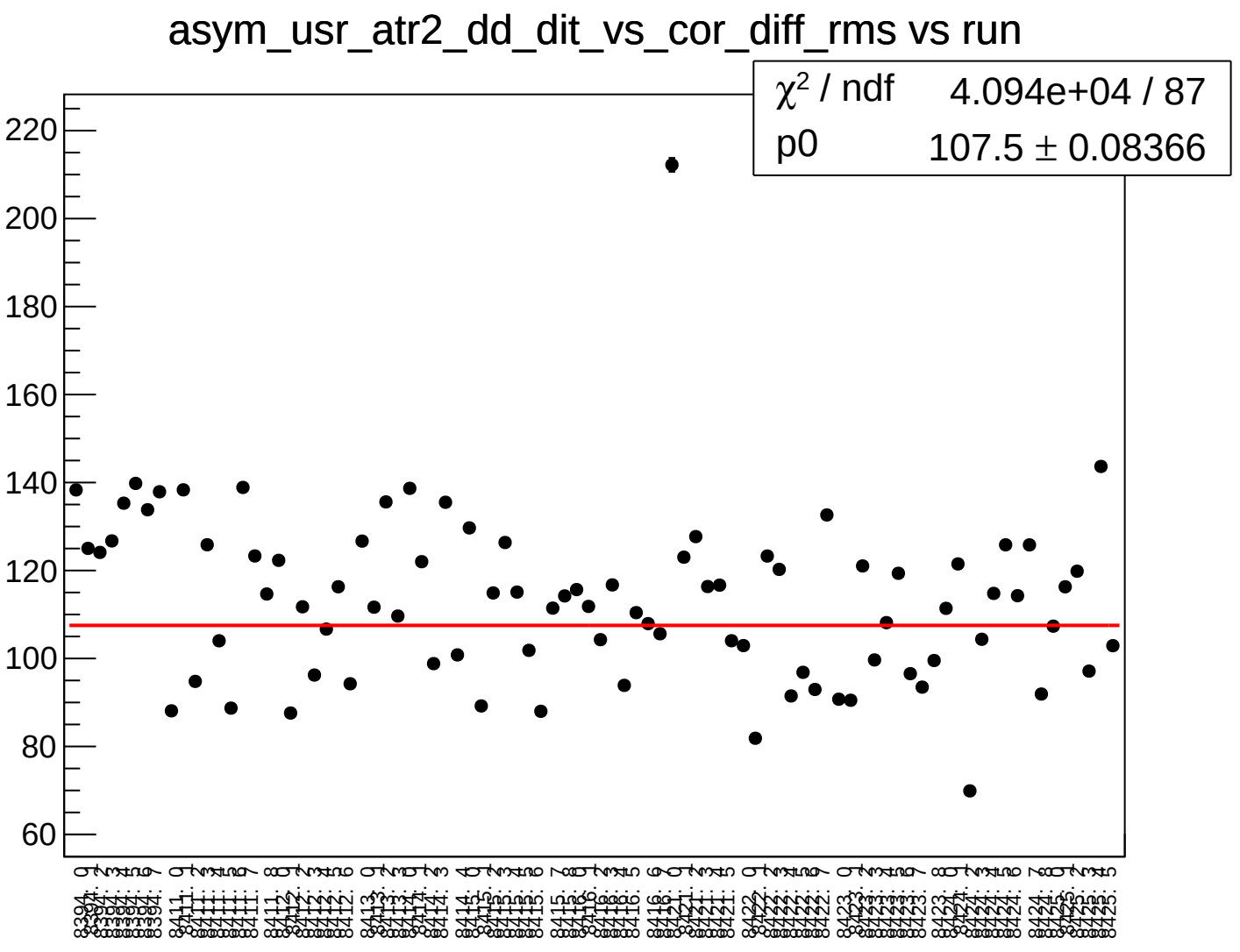

asym_usr_atr2_dd_rms vs run
χ² / ndf 1.968e+04 / 87
p0 6392 ± 4.942
8000
7500
7000
6500
6000
5500
5000
4500

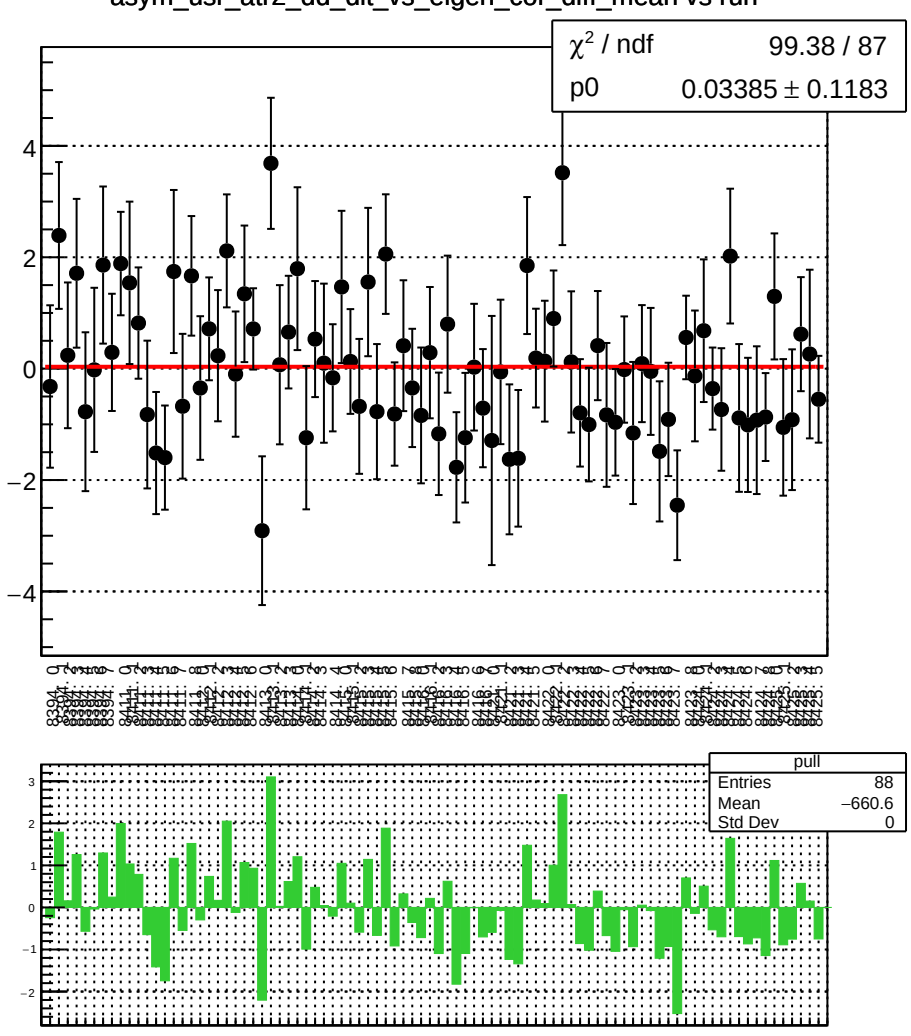

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 98.34 / 87
p0 −9.478e−13 ± 8.794e−13
pull
Entries 88
Mean −55.4
Std Dev 0
pull1D
Entries 88
Mean −0.04291
Std Dev 1.056

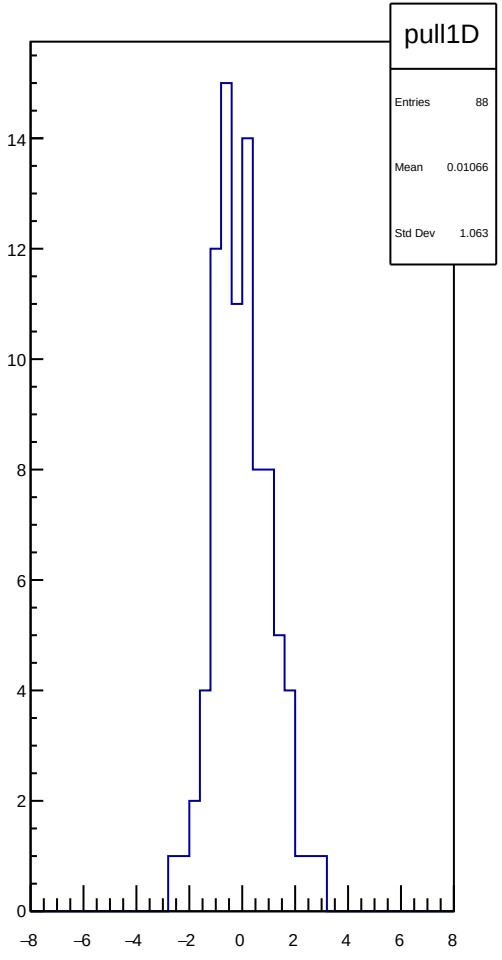

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.013e+06 / 87
p0 5.126e−10 ± 6.218e−13
1.2
1
0.8
0.6
0.4
0.2
0

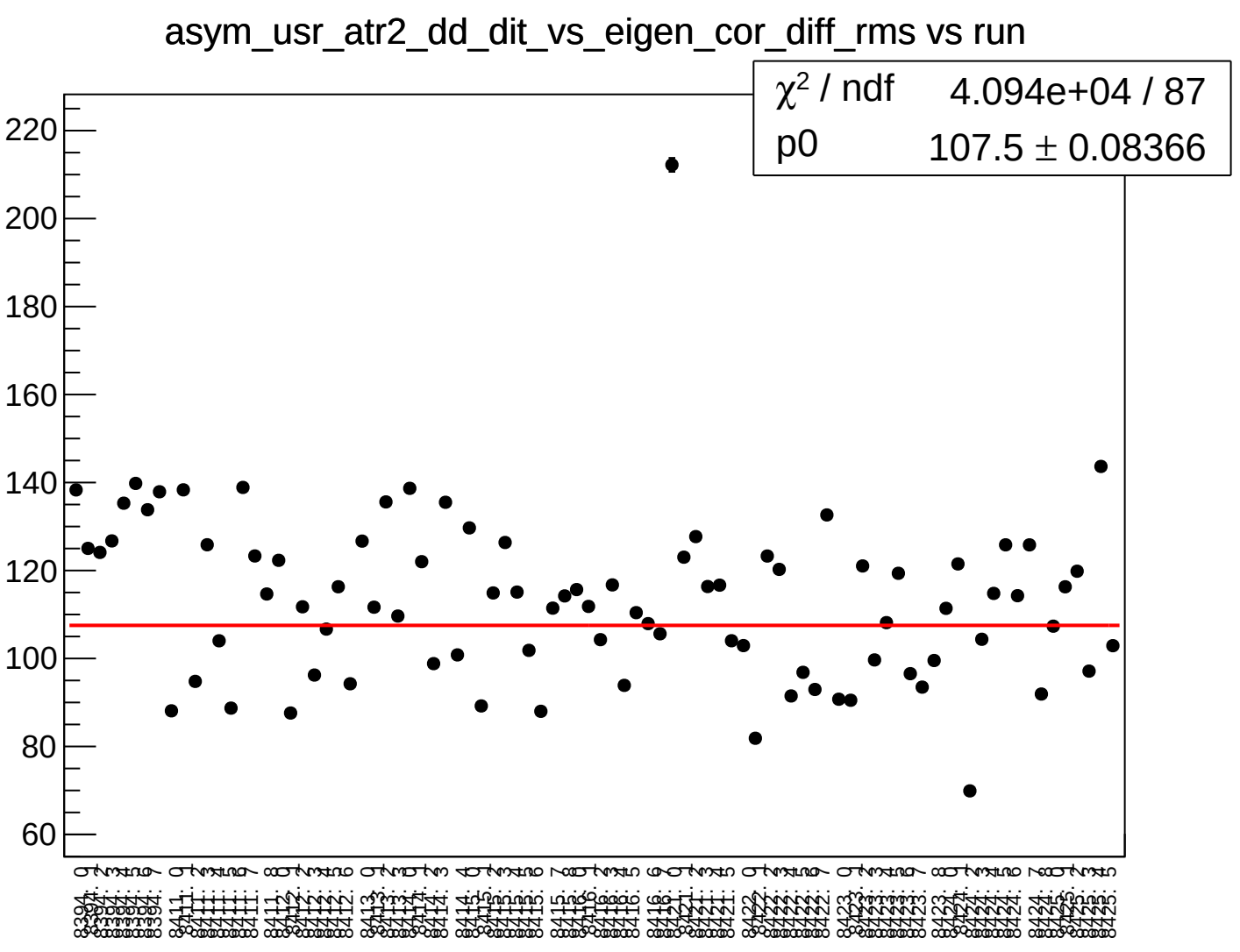

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 99.38 / 87
p0 0.03385 ± 0.1183
pull
Entries 88
Mean −660.6
Std Dev 0

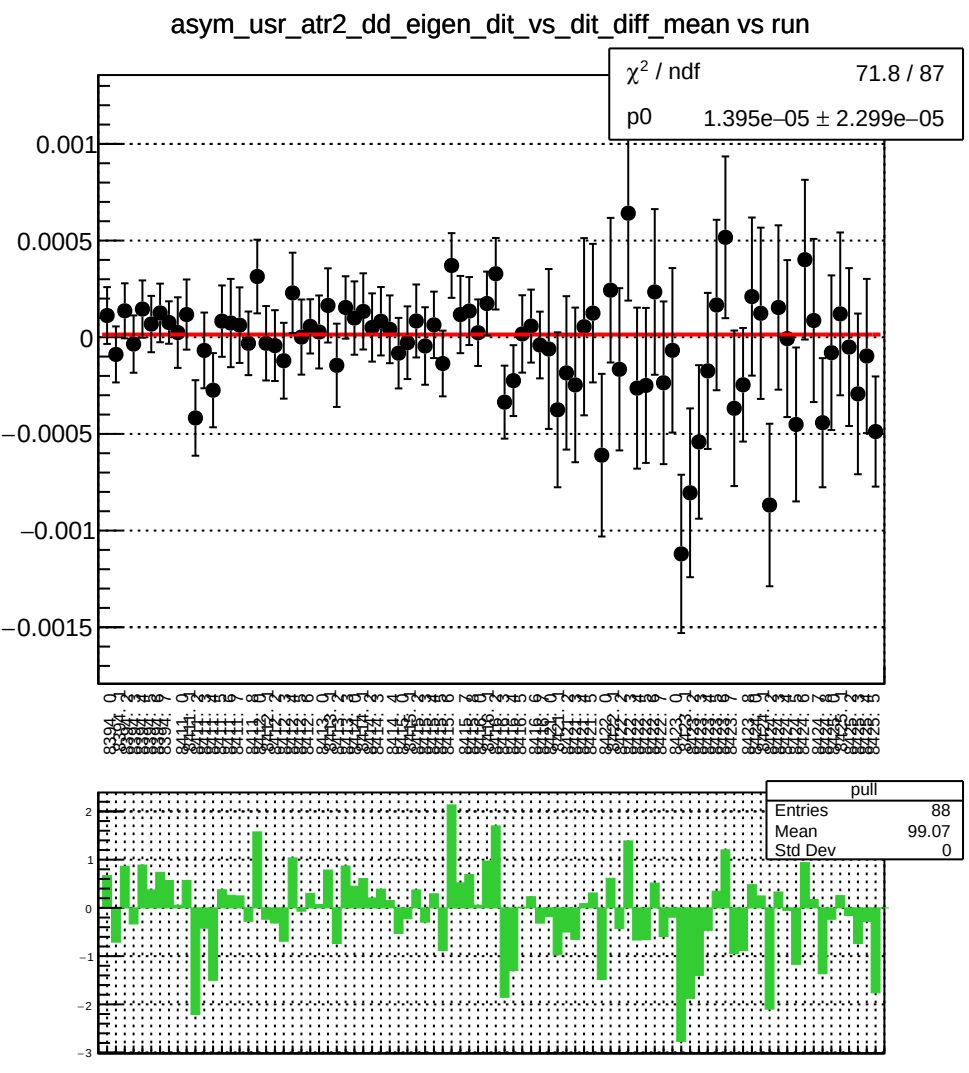

pull1D
Entries 88
Mean 0.01066
Std Dev 1.063

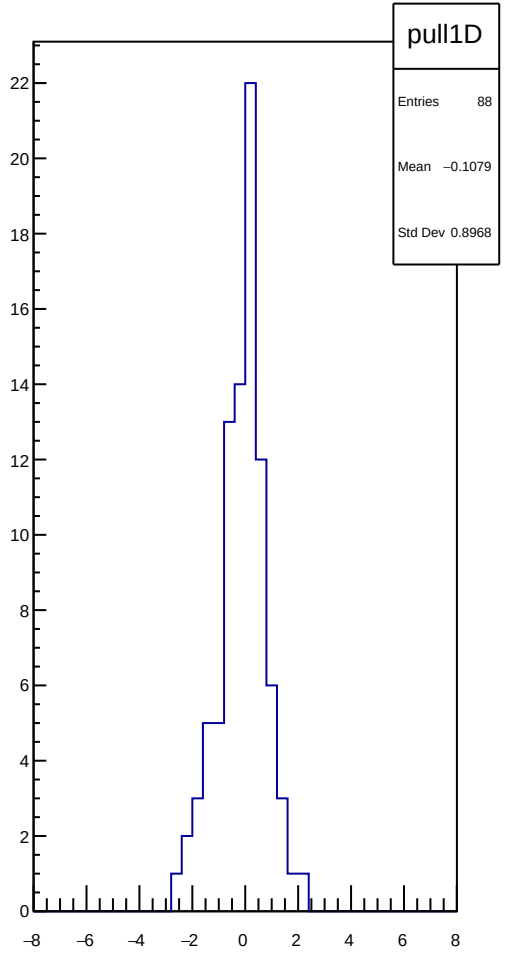

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.094e+04 / 87
p0 107.5 ± 0.08366
220
200
180
160
140
120
100
80
60

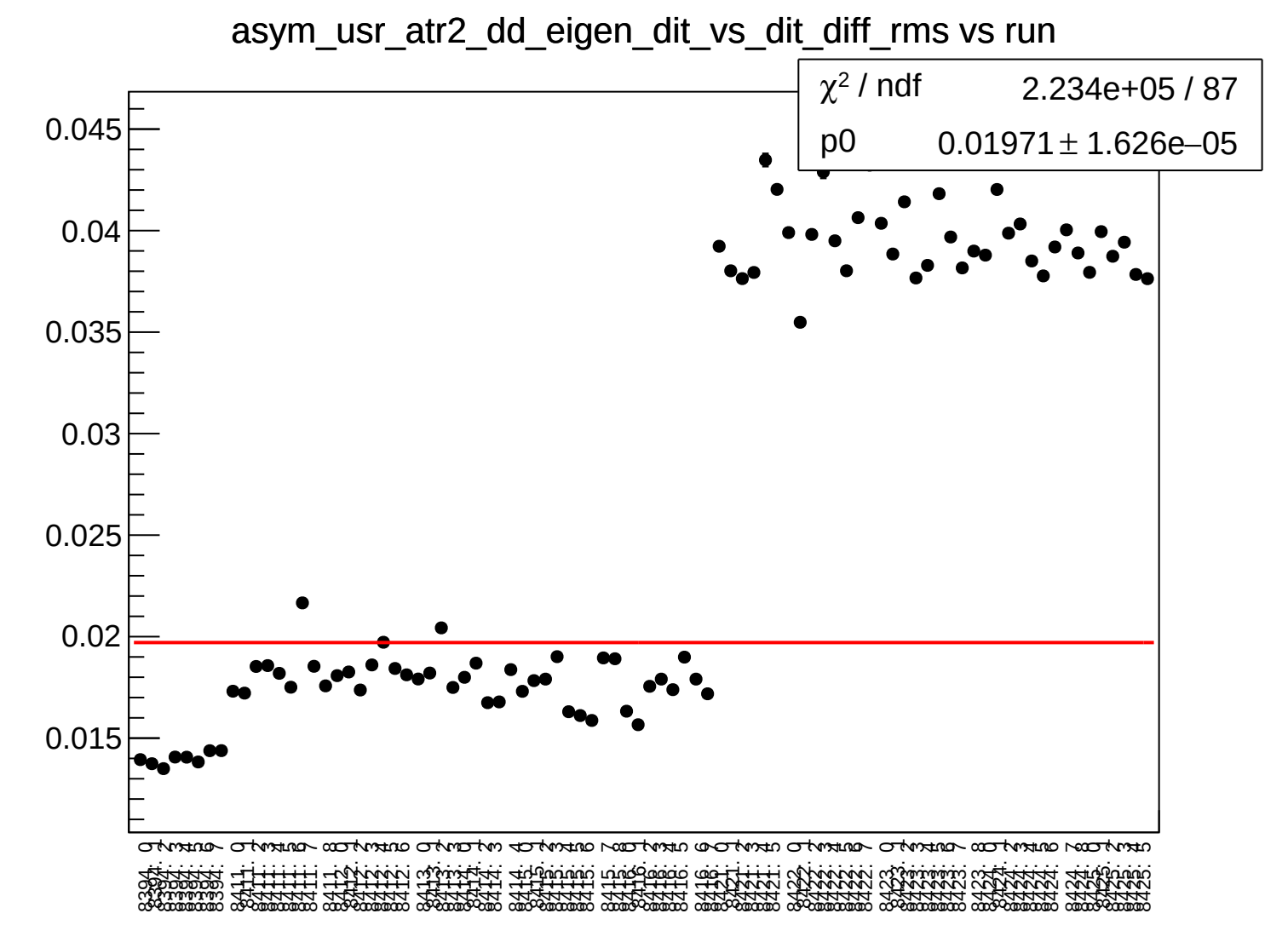

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.38 / 87
p0 0.03385 ± 0.1183
pull
Entries 88
Mean −660.6
Std Dev 0

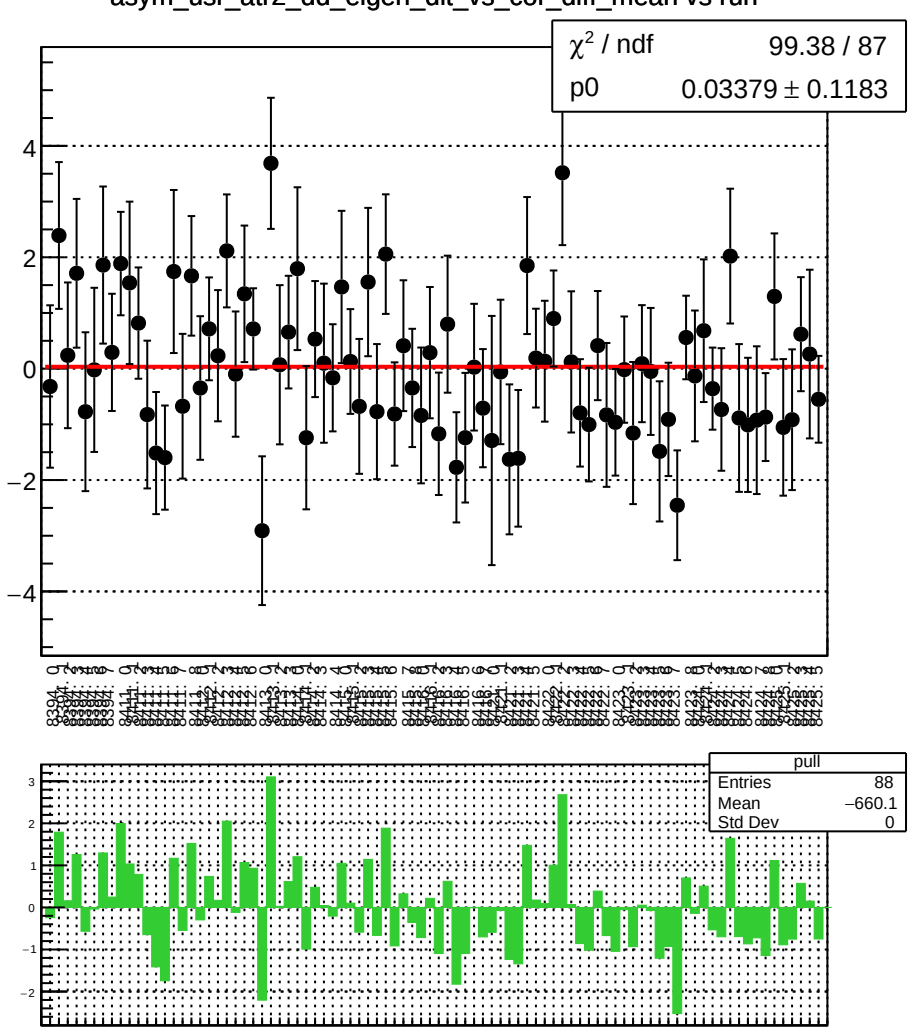

pull1D
Entries 88
Mean 0.01066
Std Dev 1.063

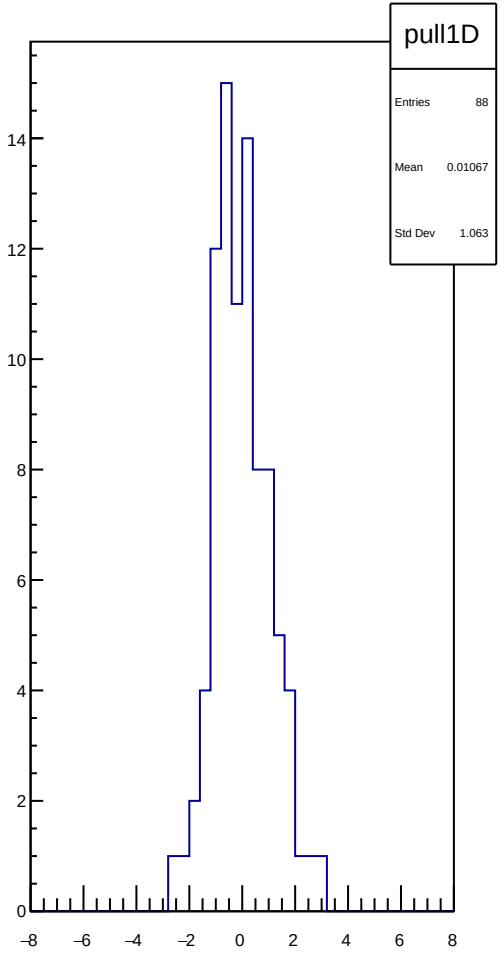

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.094e+04 / 87
p0 107.5 ± 0.08366
220
200
180
160
140
120
100
80
60

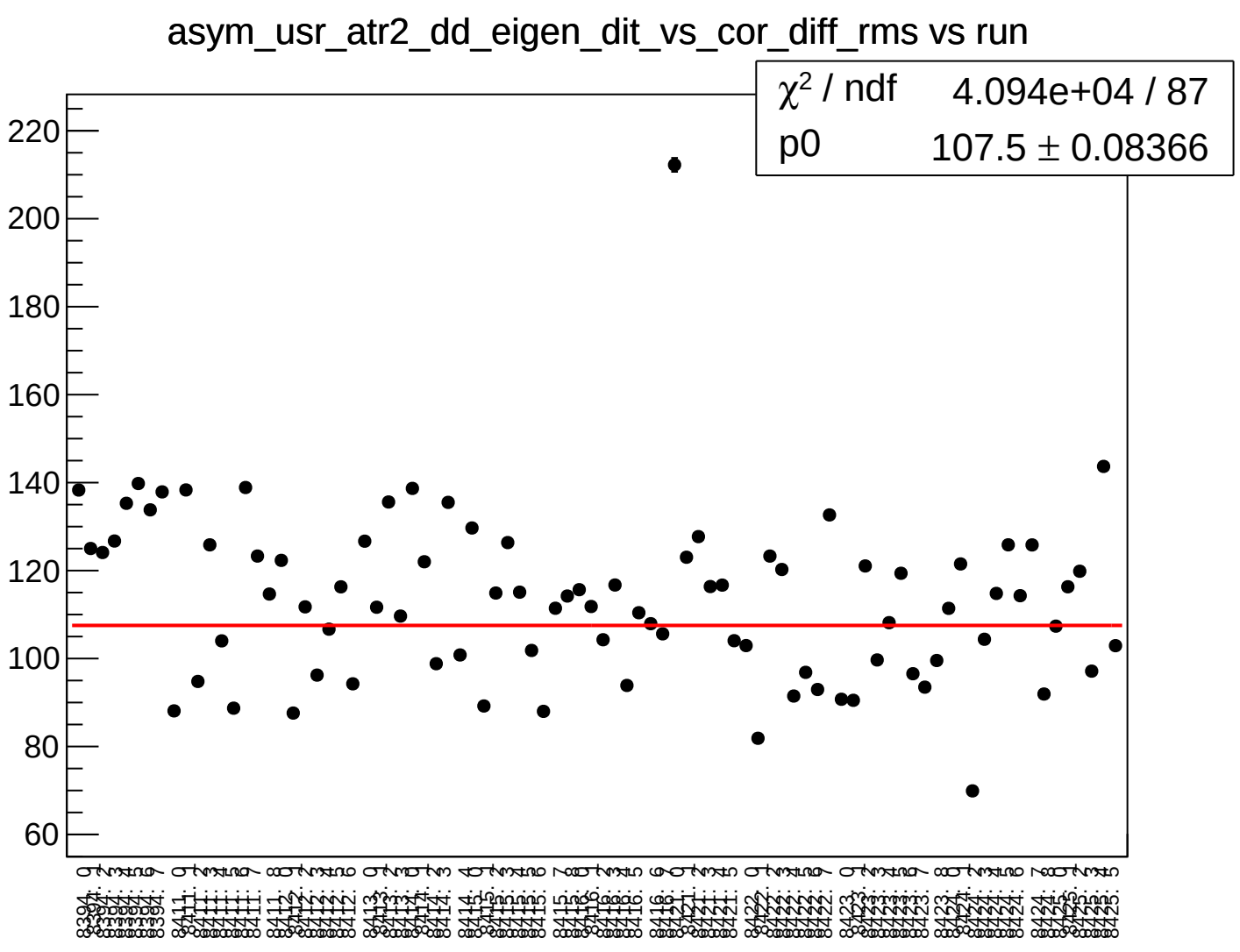

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 71.8 / 87
p0 1.395e−05 ± 2.299e−05
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 88
Mean 99.07
Std Dev 0
2
1
0
−1
−2
−3

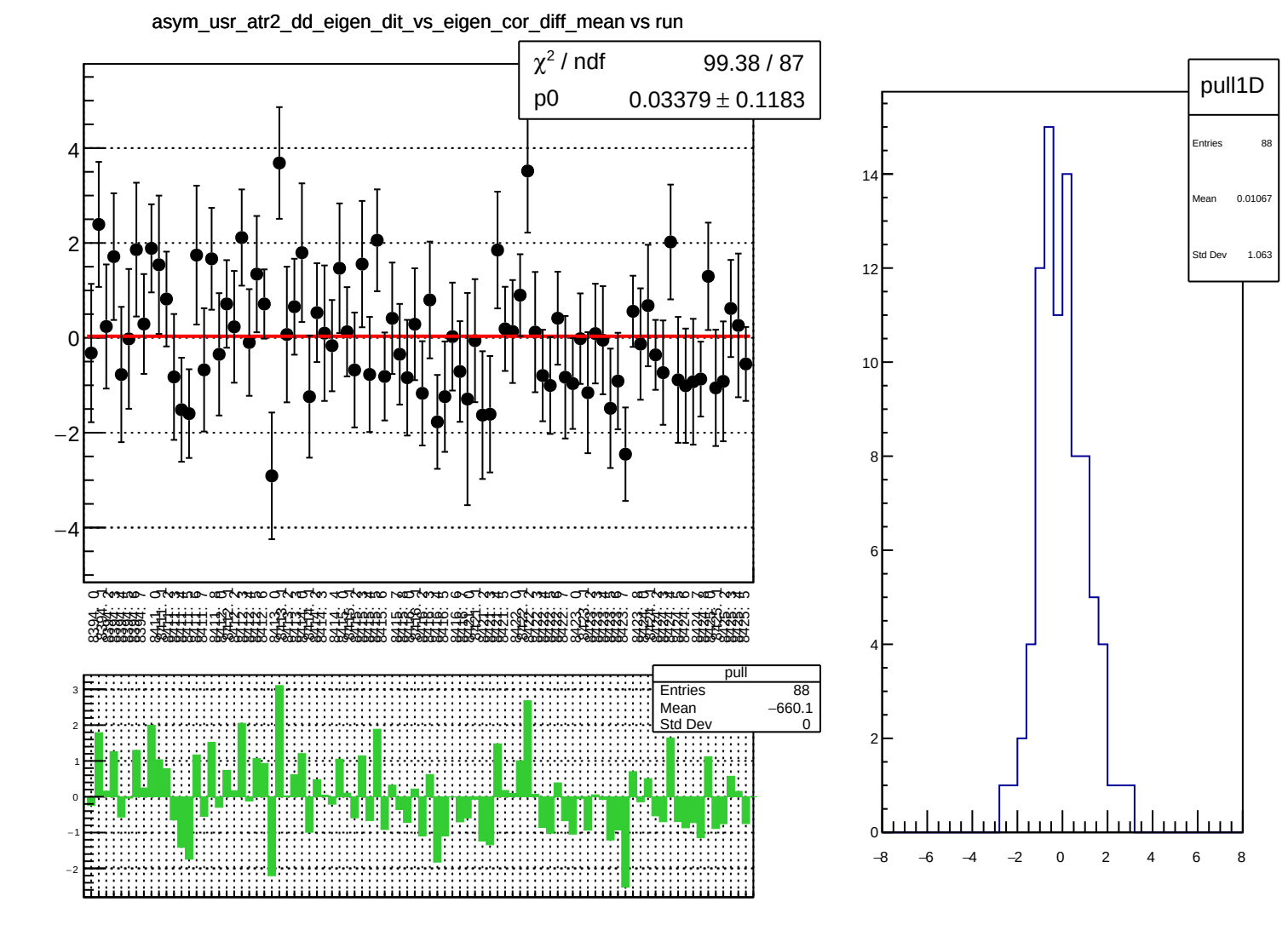

pull1D
Entries 88
Mean −0.1079
Std Dev 0.8968
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

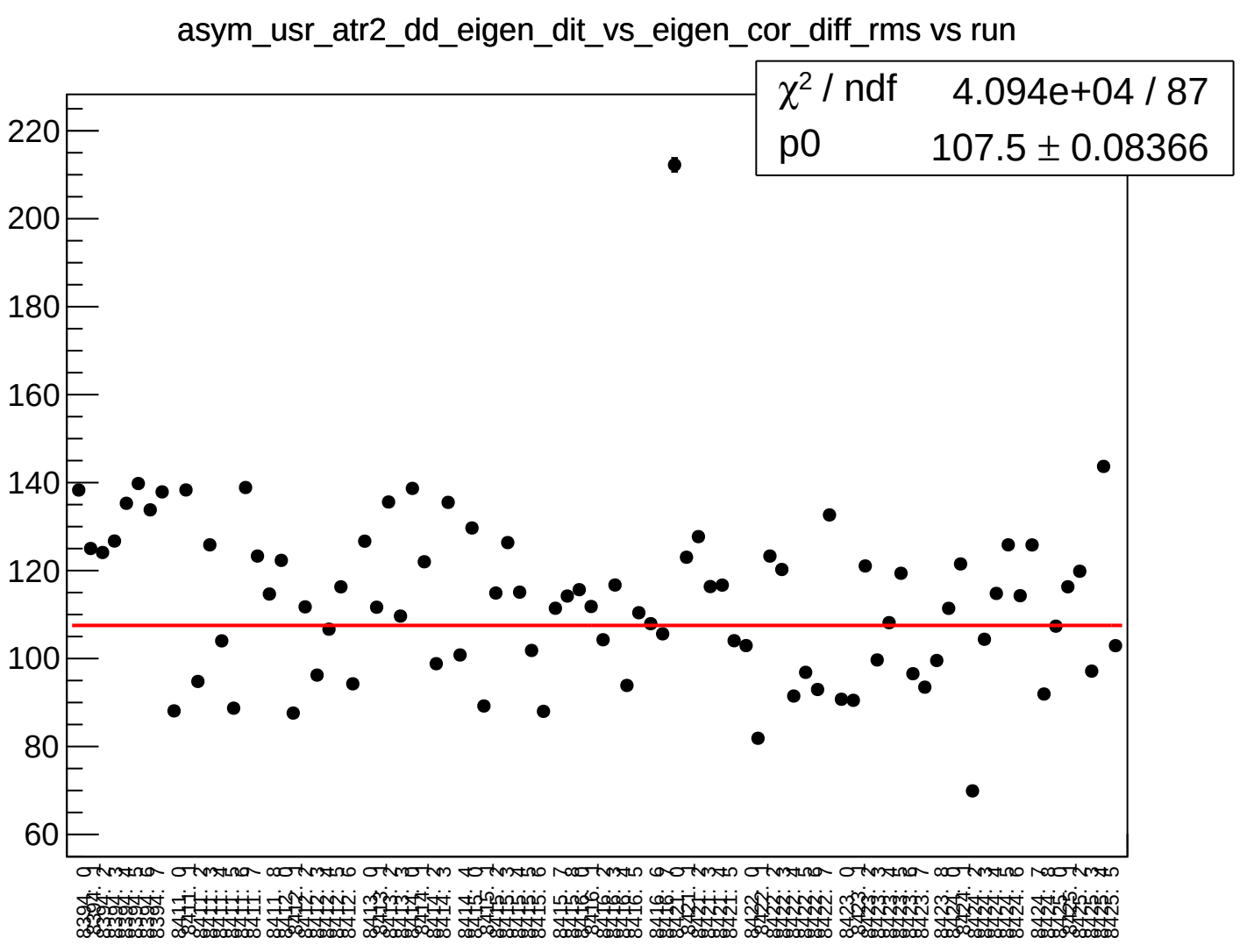

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.234e+05 / 87
p0 0.01971 ± 1.626e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

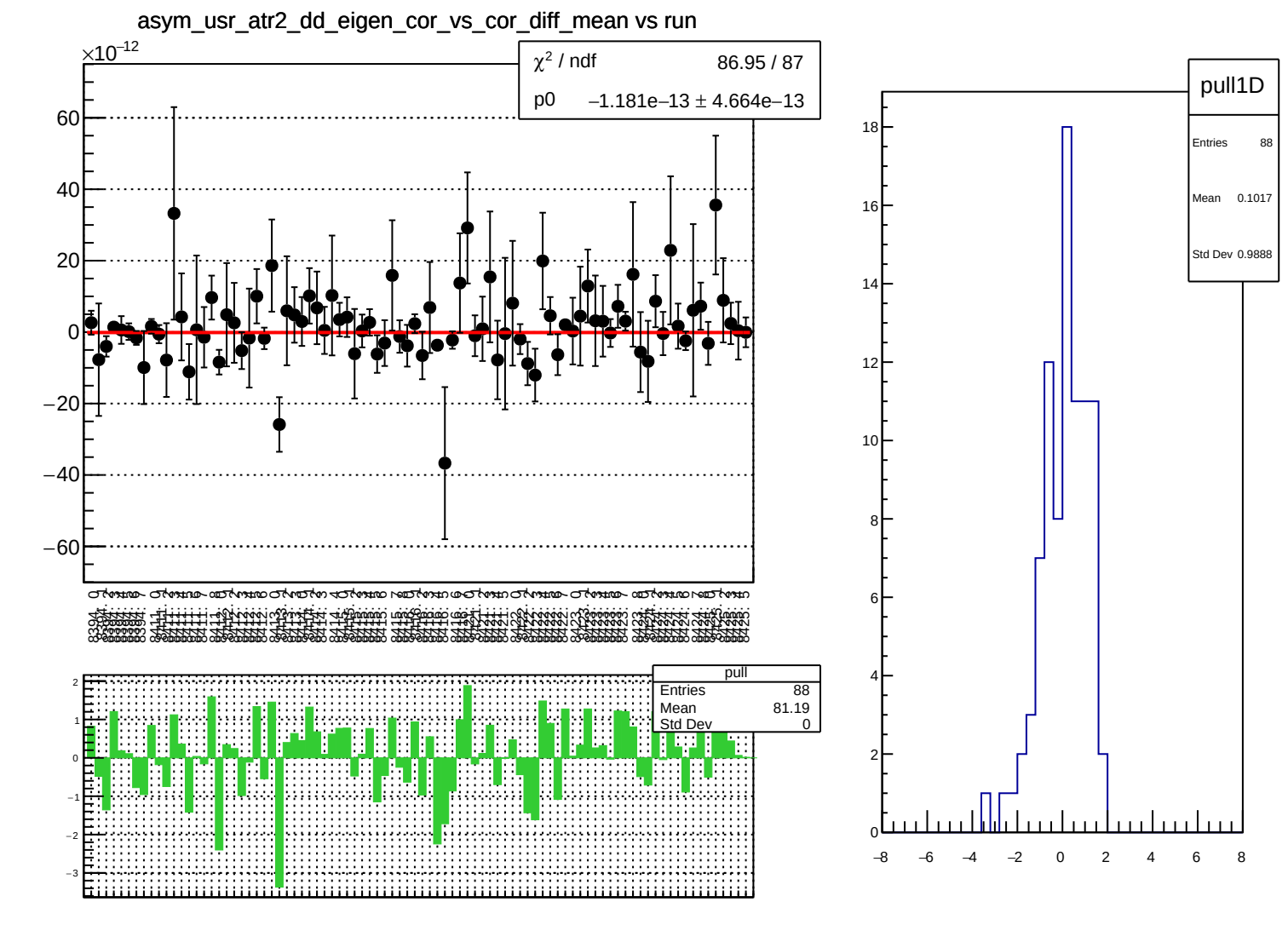

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.38 / 87
p0 0.03379 ± 0.1183
pull
Entries 88
Mean −660.1
Std Dev 0

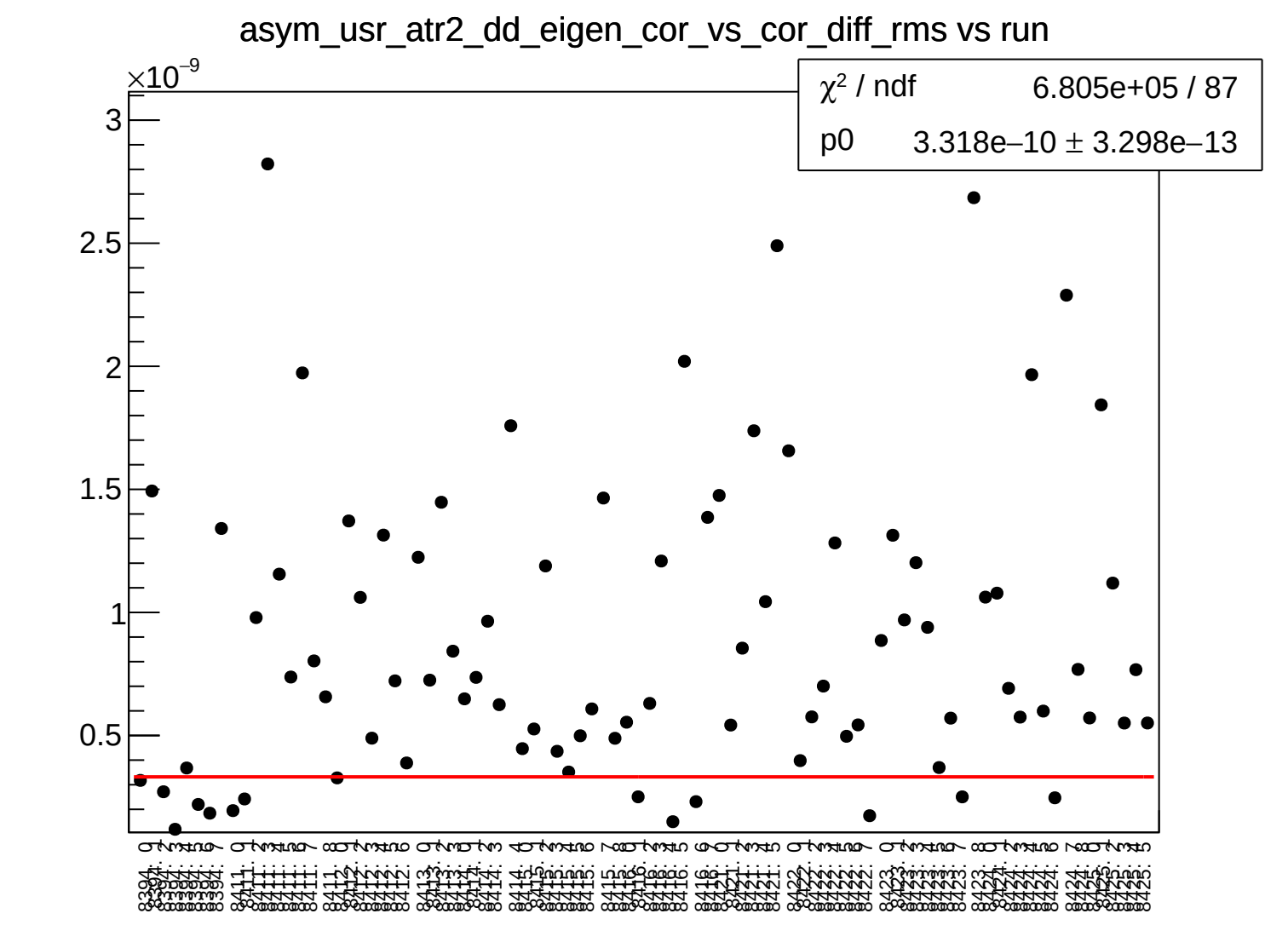

pull1D
Entries 88
Mean 0.01067
Std Dev 1.063

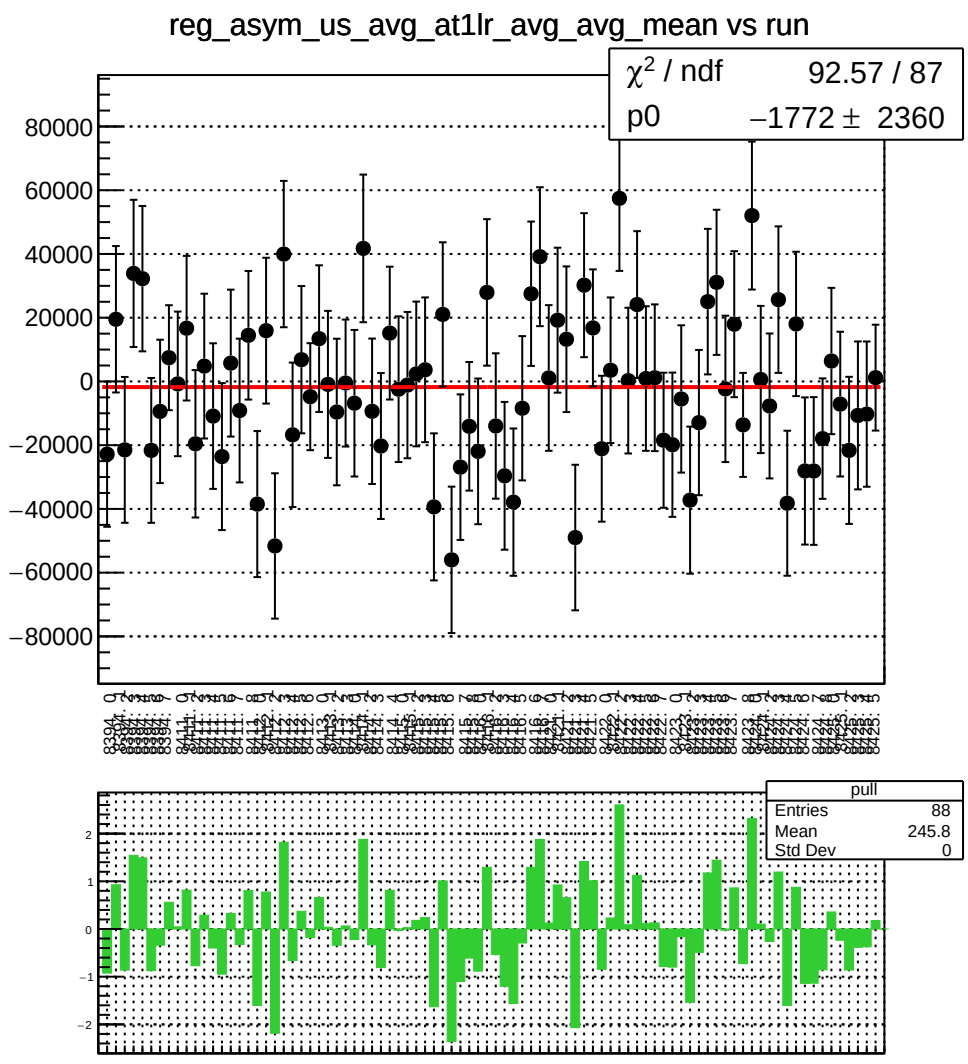

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.094e+04 / 87
p0 107.5 ± 0.08366
220
200
180
160
140
120
100
80
60

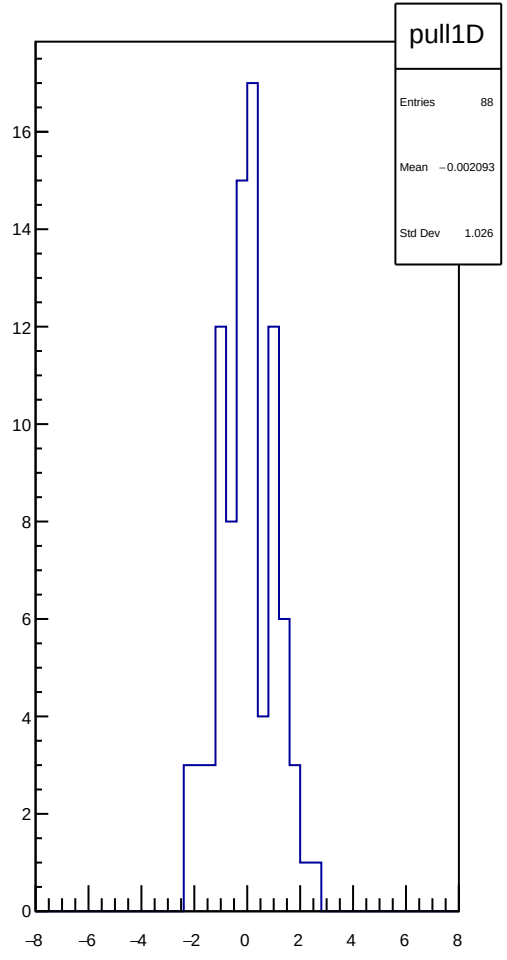

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.38 / 87
p0 0.03379 ± 0.1183
pull
Entries 88
Mean −660.1
Std Dev 0
pull1D
Entries 88
Mean 0.01067
Std Dev 1.063

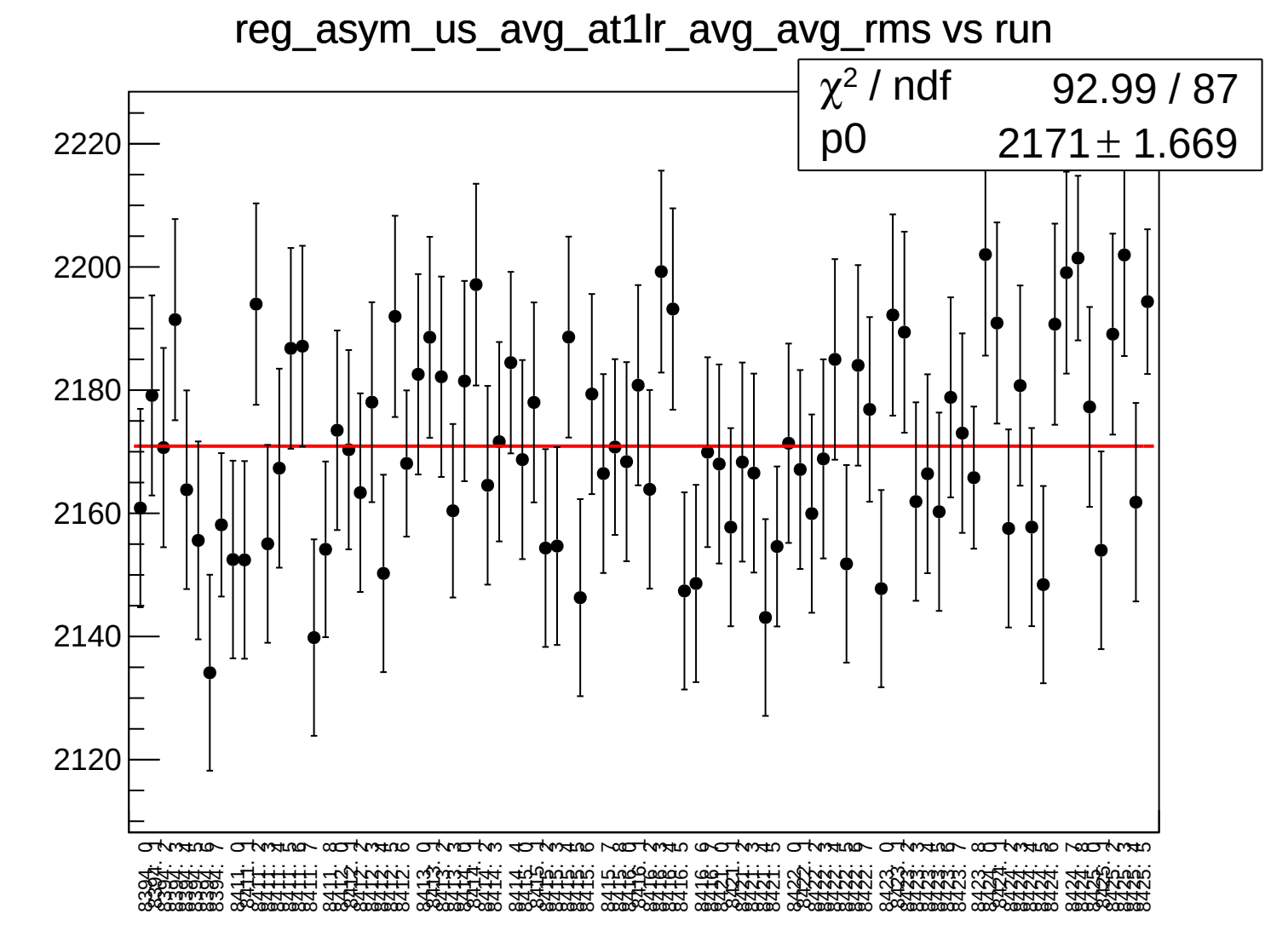

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.094e+04 / 87
p0 107.5 ± 0.08366
220
200
180
160
140
120
100
80
60

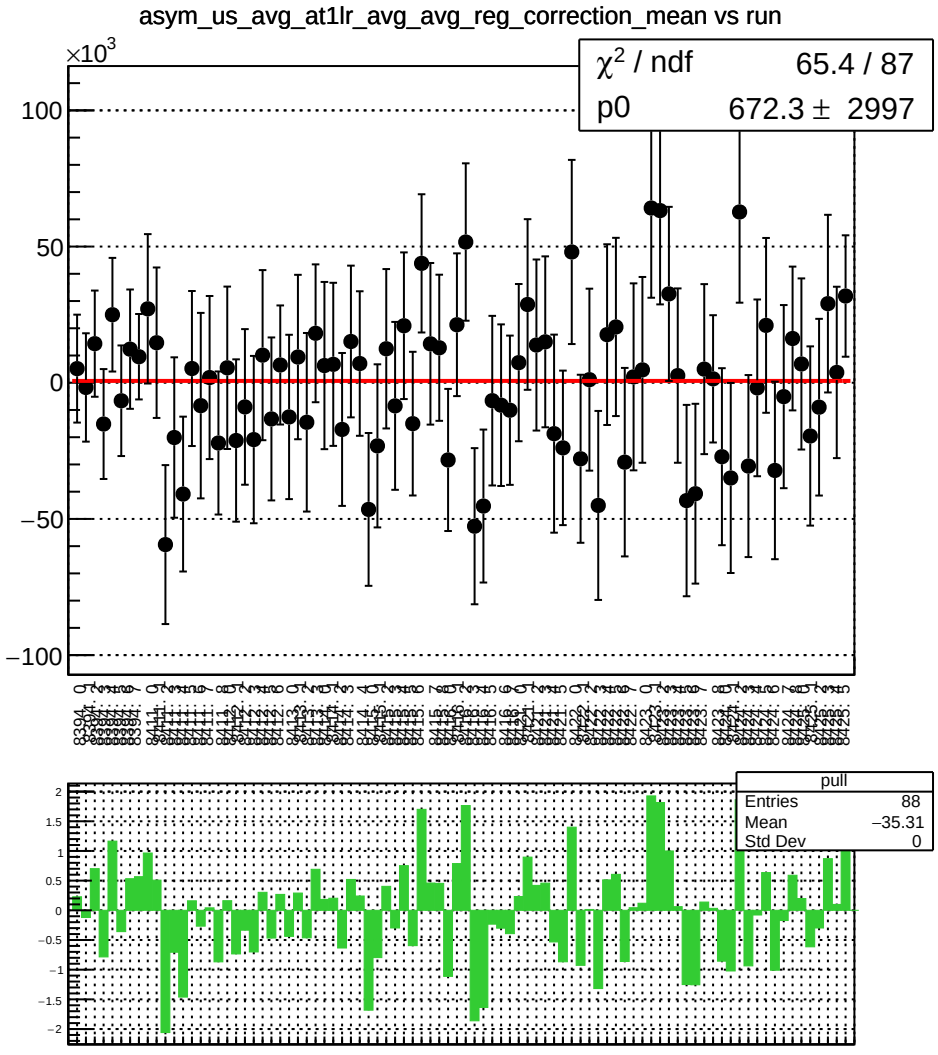

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10^-12
χ² / ndf 86.95 / 87
p0 −1.181e−13 ± 4.664e−13
pull
Entries 88
Mean 81.19
Std Dev 0
pull1D
Entries 88
Mean 0.1017
Std Dev 0.9888

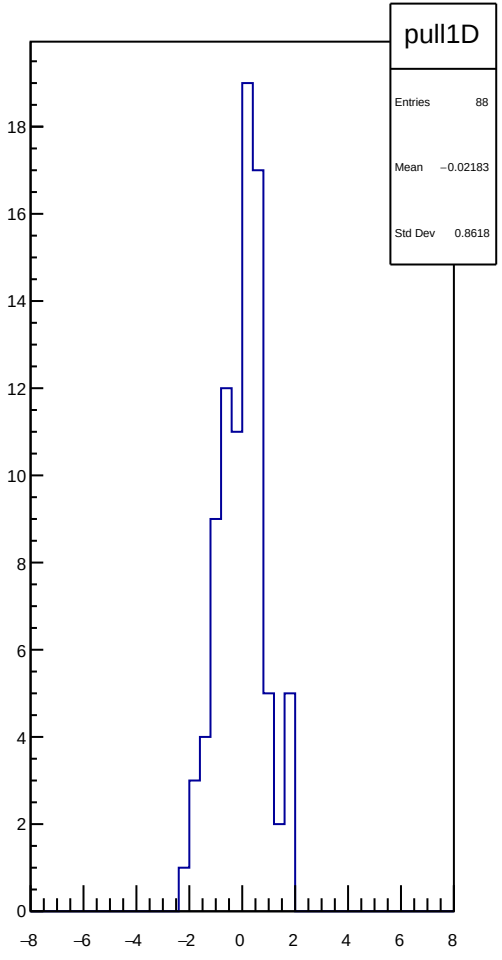

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.805e+05 / 87
p0 3.318e−10 ± 3.298e−13
3
2.5
2
1.5
1
0.5

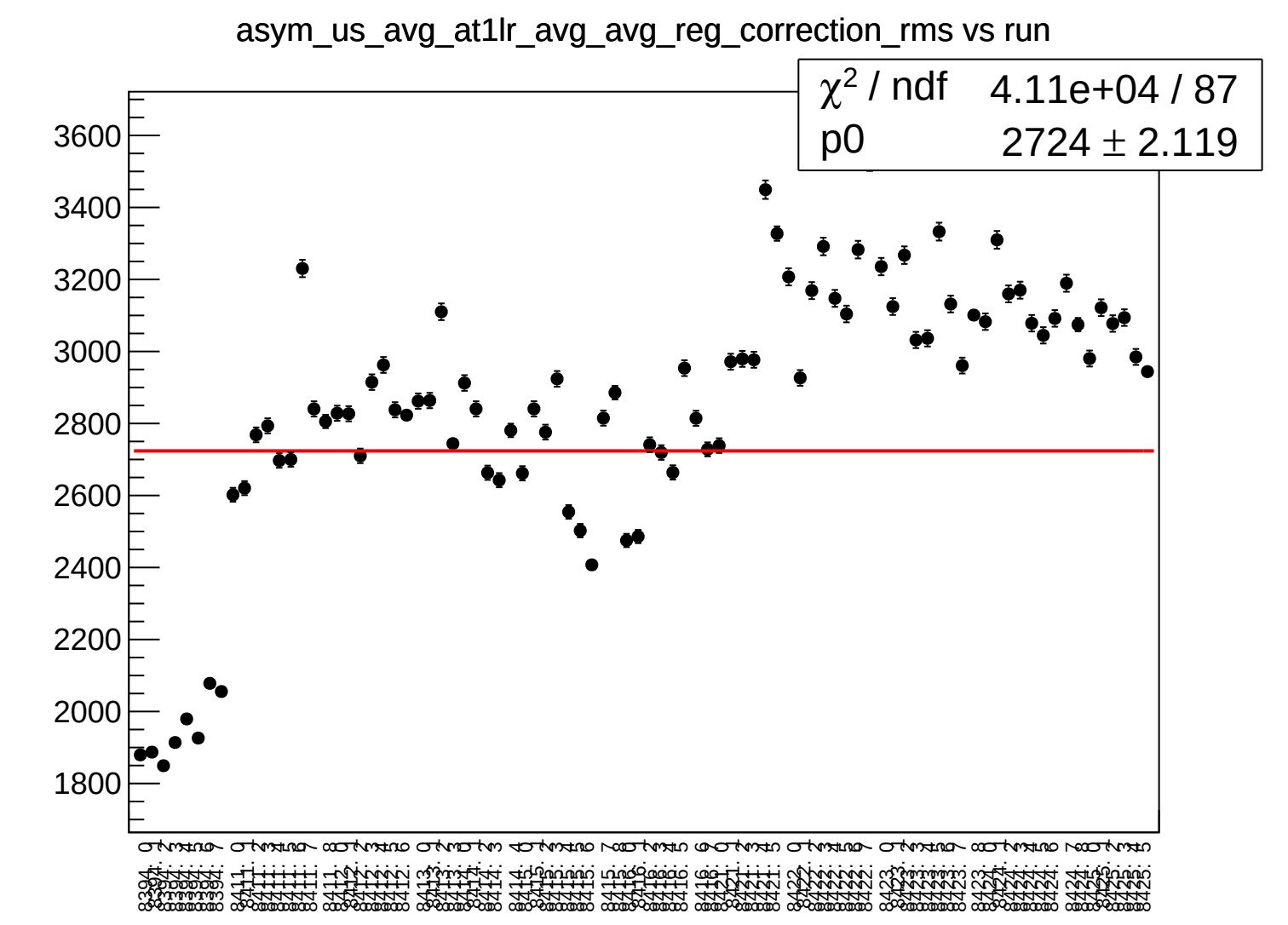

reg_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 92.57 / 87
p0 −1772 ± 2360
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 245.8
Std Dev 0
2
1
0
−1
−2

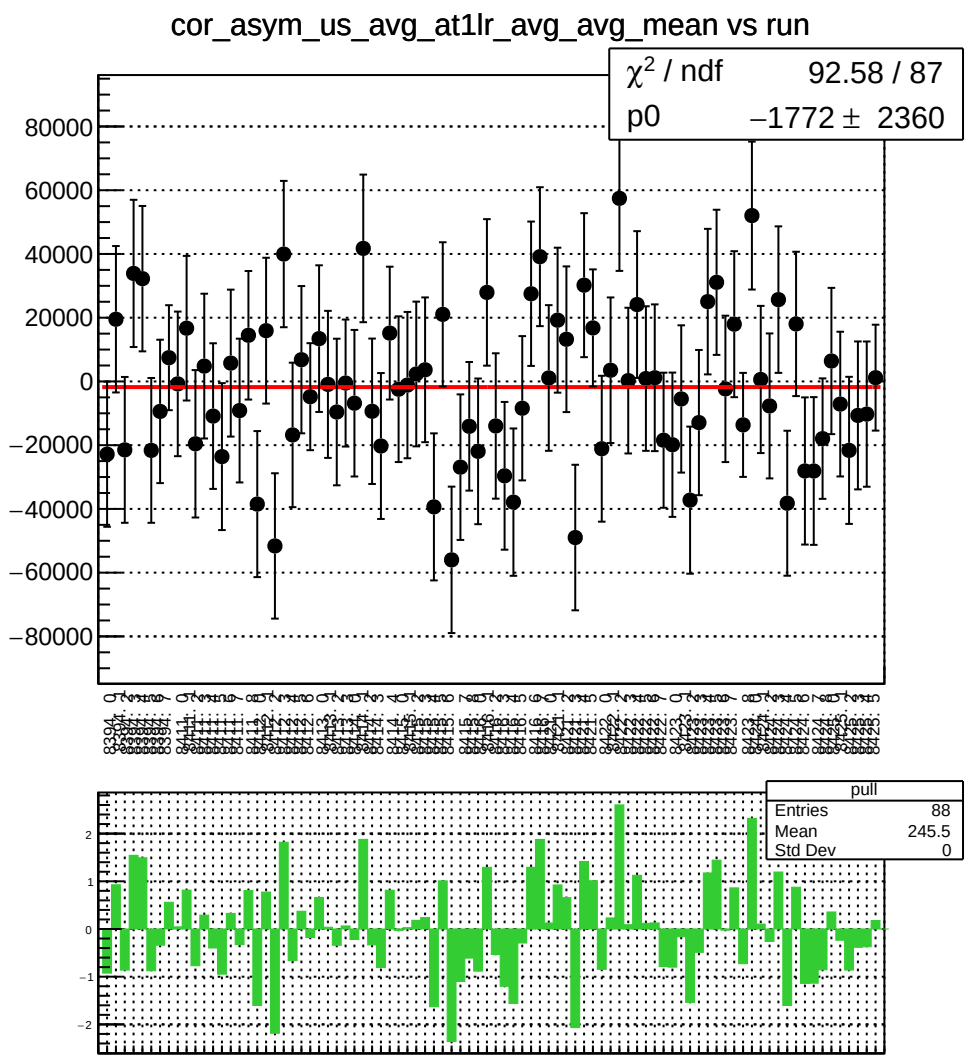

pull1D
Entries 88
Mean −0.002093
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

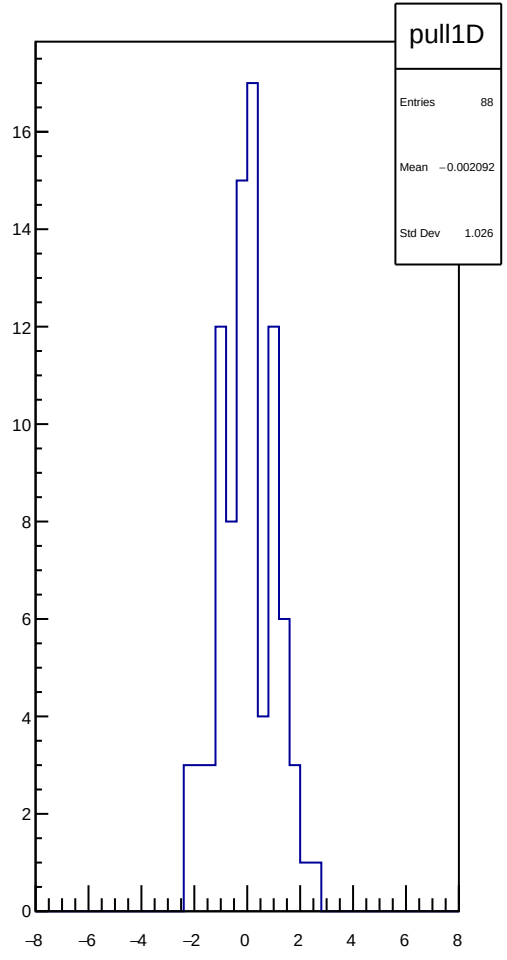

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 92.99 / 87
p0 2171 ± 1.669
2220
2200
2180
2160
2140
2120

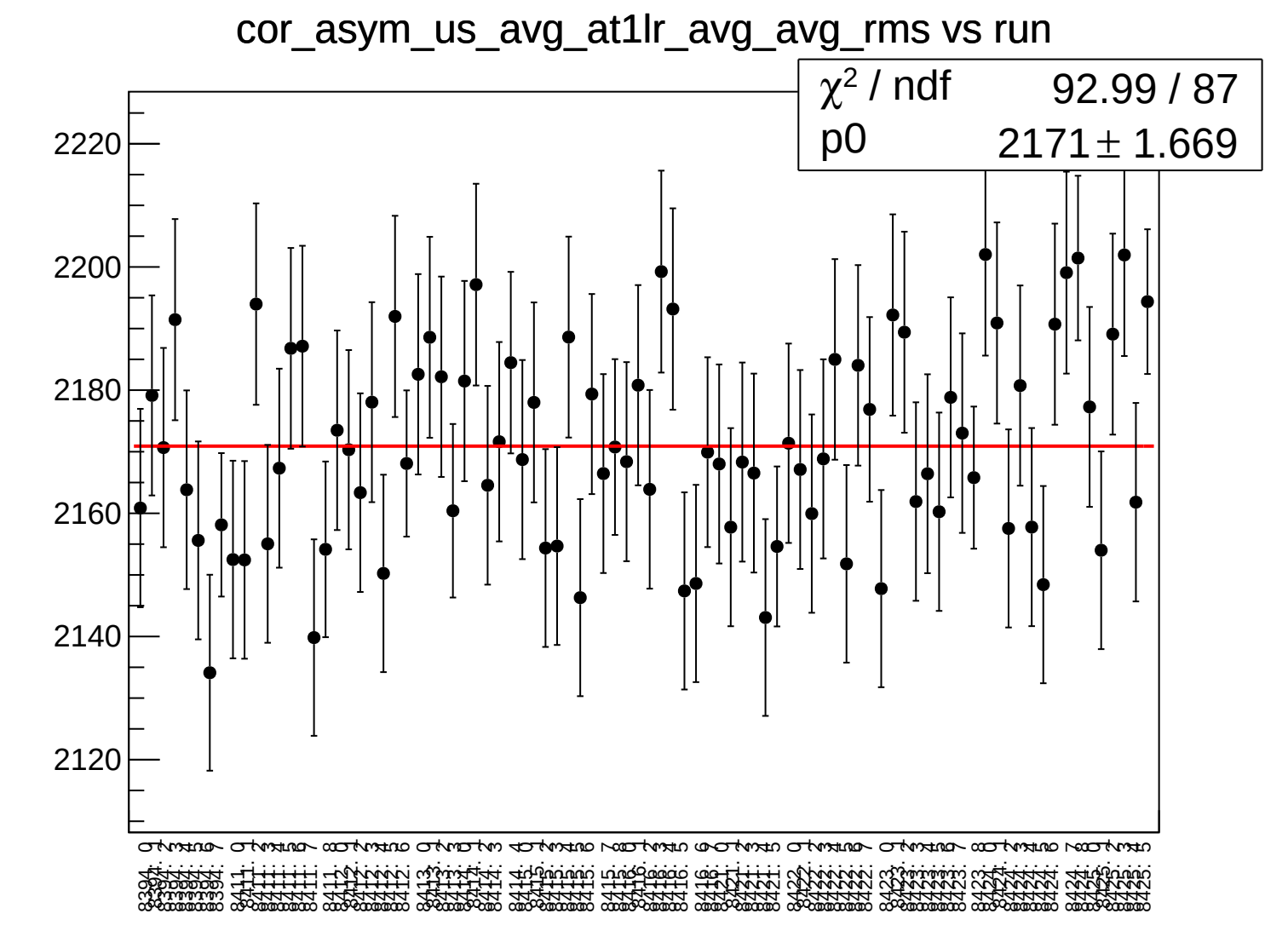

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 65.4 / 87
p0 672.3 ± 2997
100
50
0
−50
−100
pull
Entries 88
Mean −35.31
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

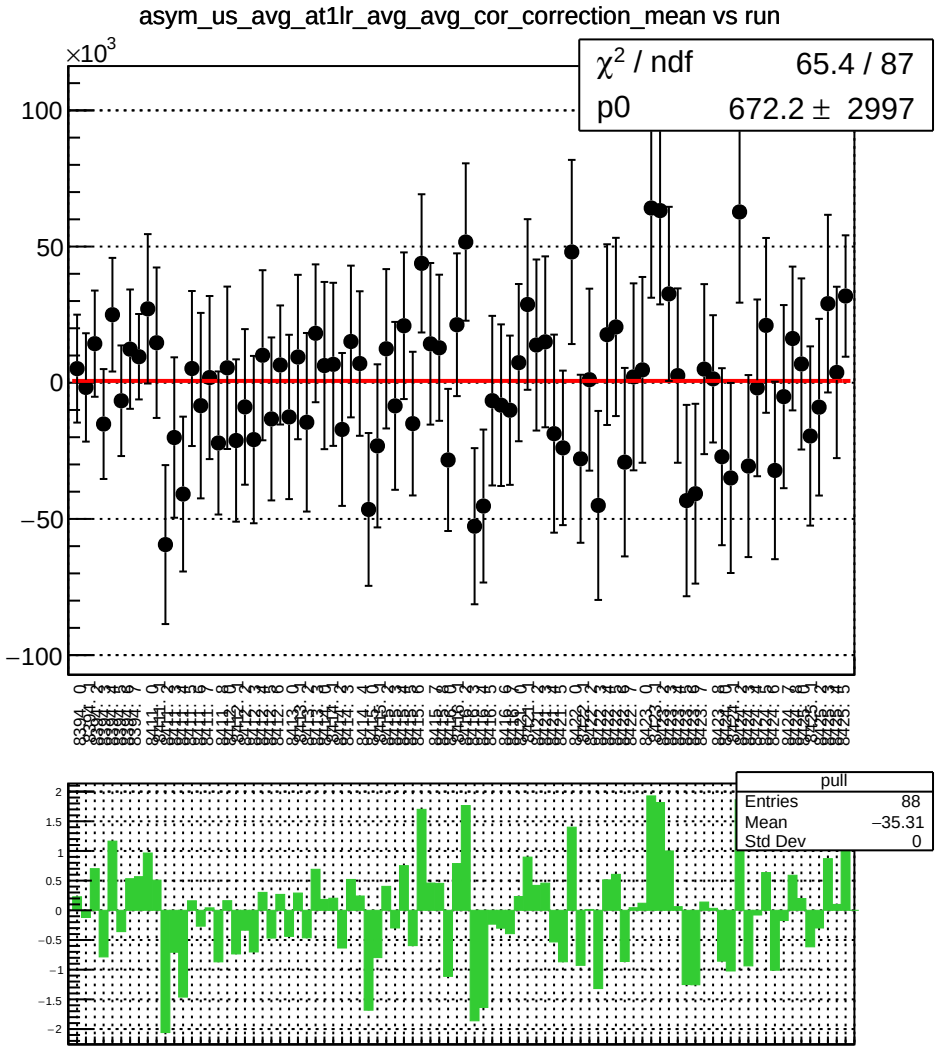

pull1D
Entries 88
Mean −0.02183
Std Dev 0.8618
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

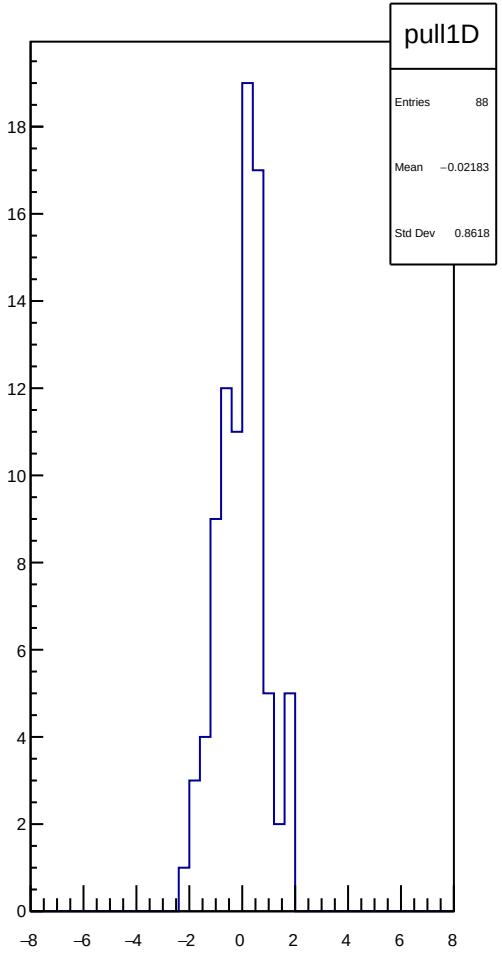

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 4.11e+04 / 87
p0 2724 ± 2.119
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

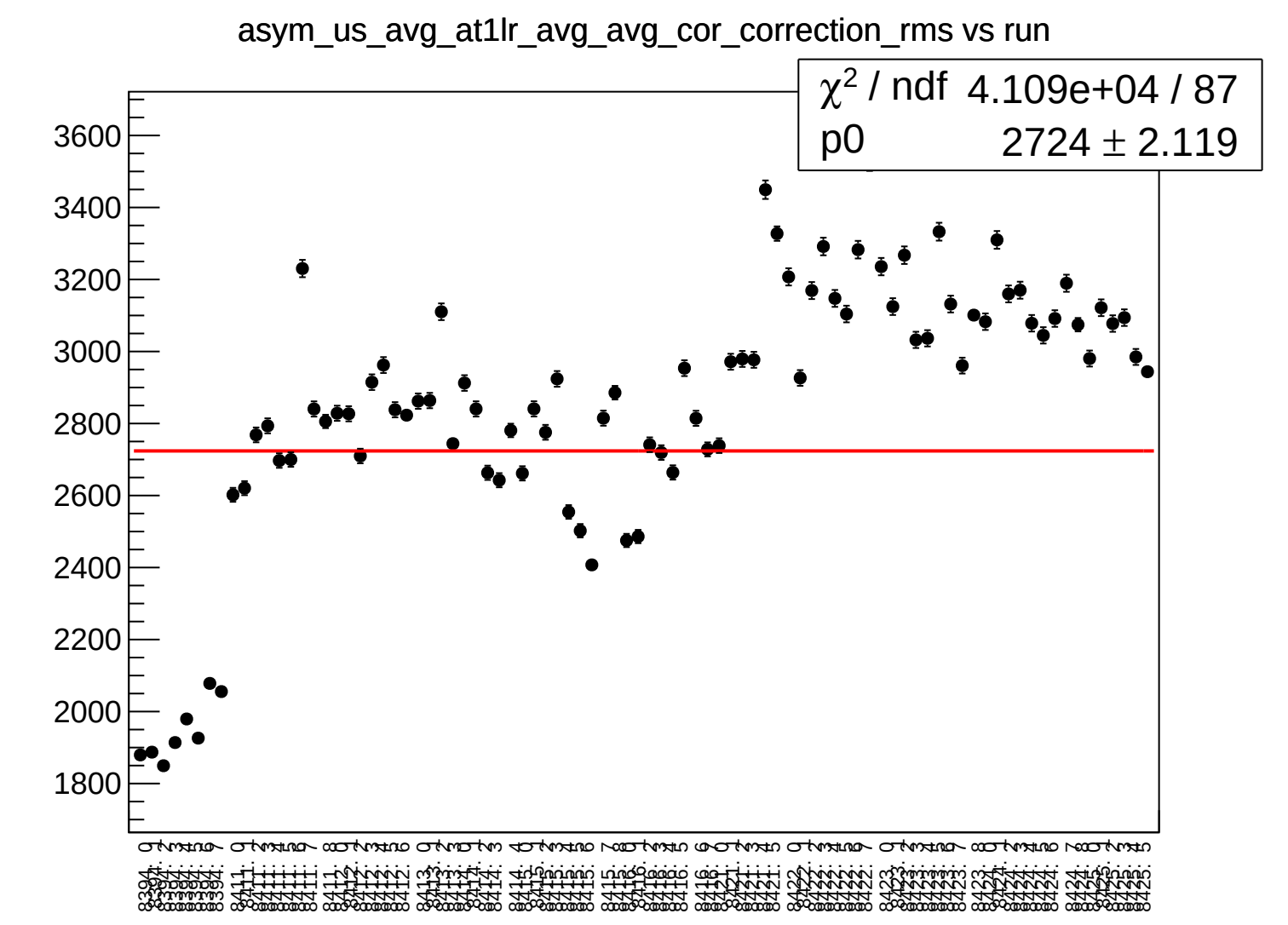

cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 92.58 / 87
p0 −1772 ± 2360
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 245.5
Std Dev 0
2
1
0
−1
−2

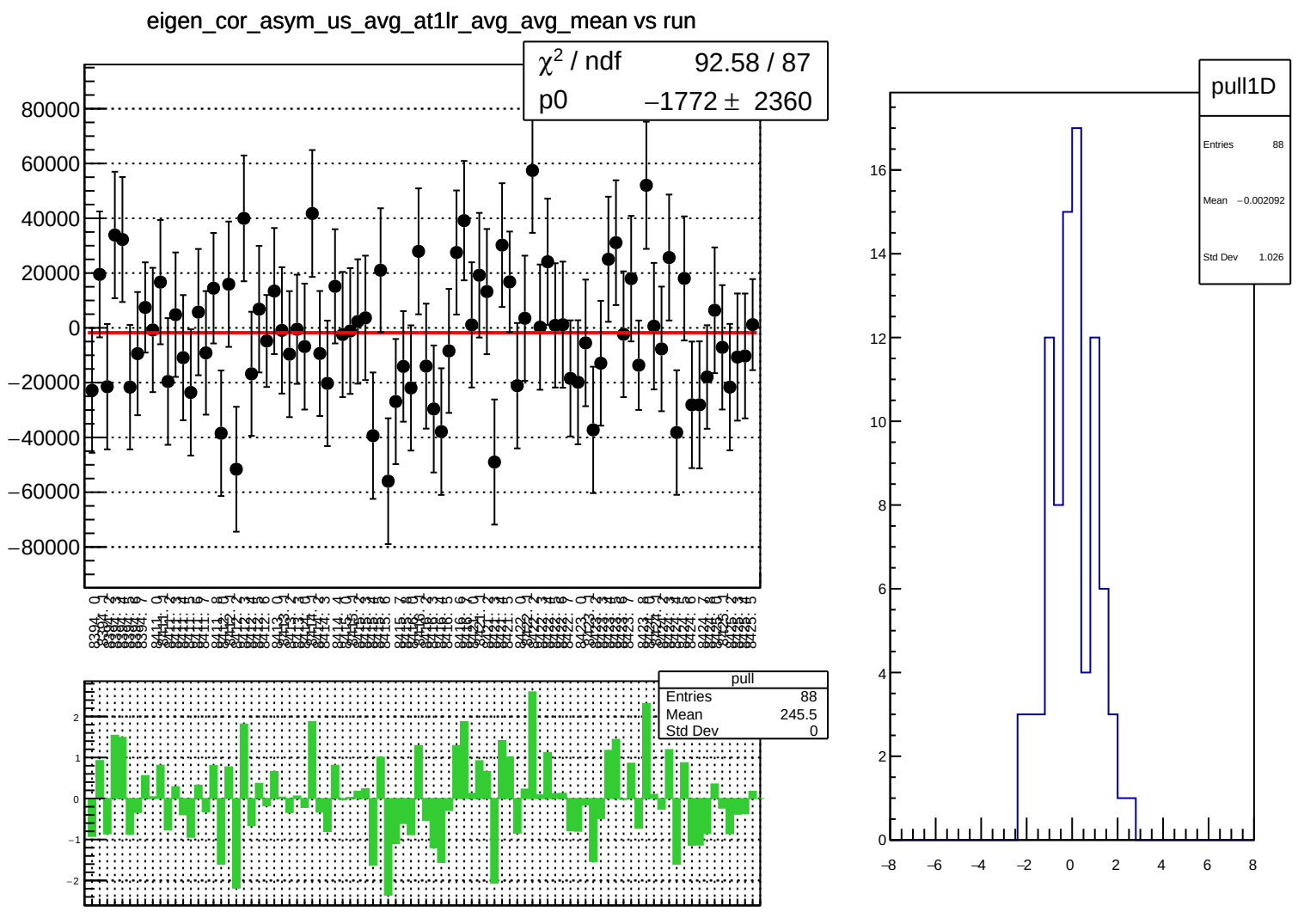

pull1D
Entries 88
Mean −0.002092
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

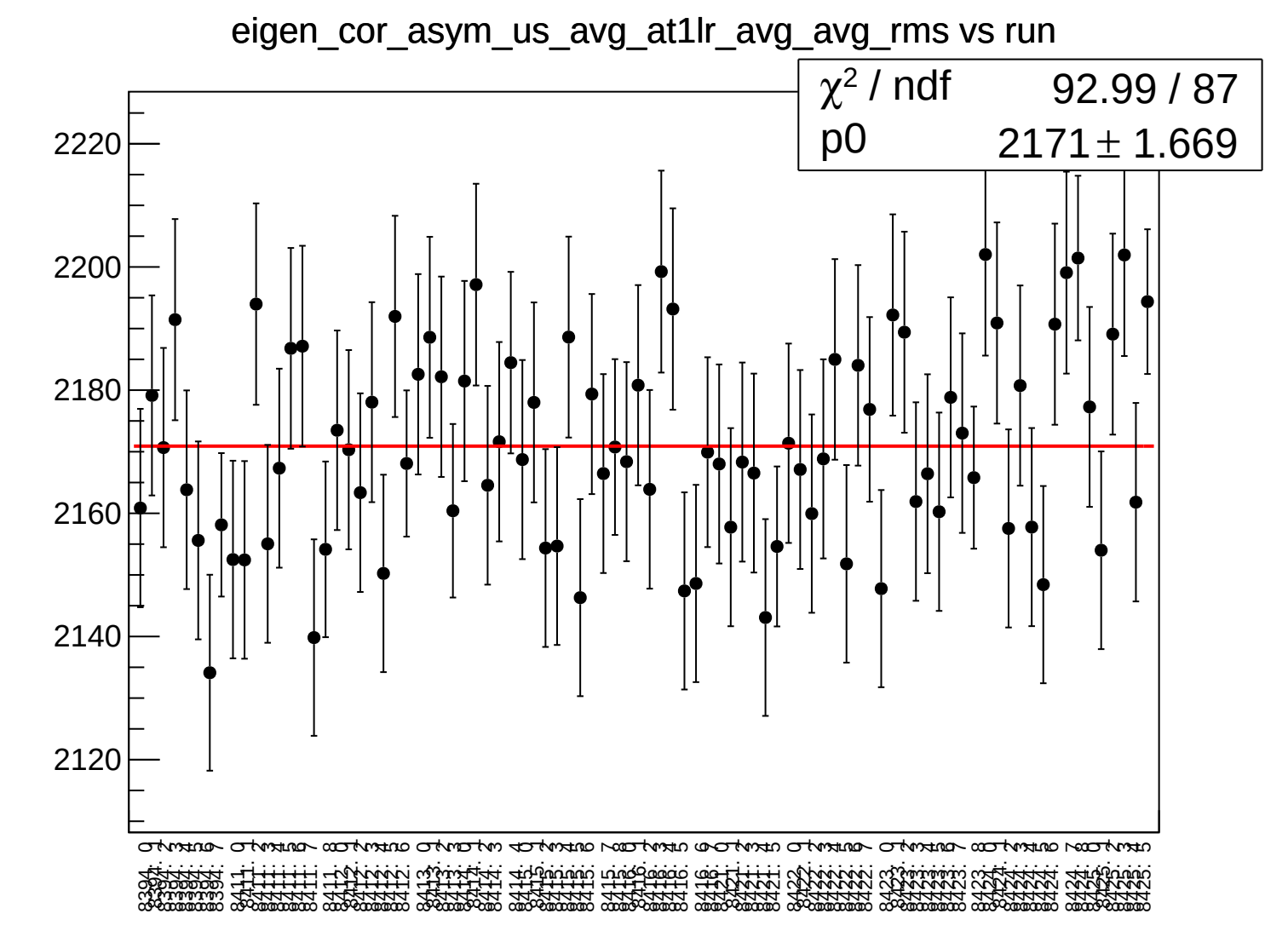

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 92.99 / 87
p0 2171 ± 1.669
2220
2200
2180
2160
2140
2120

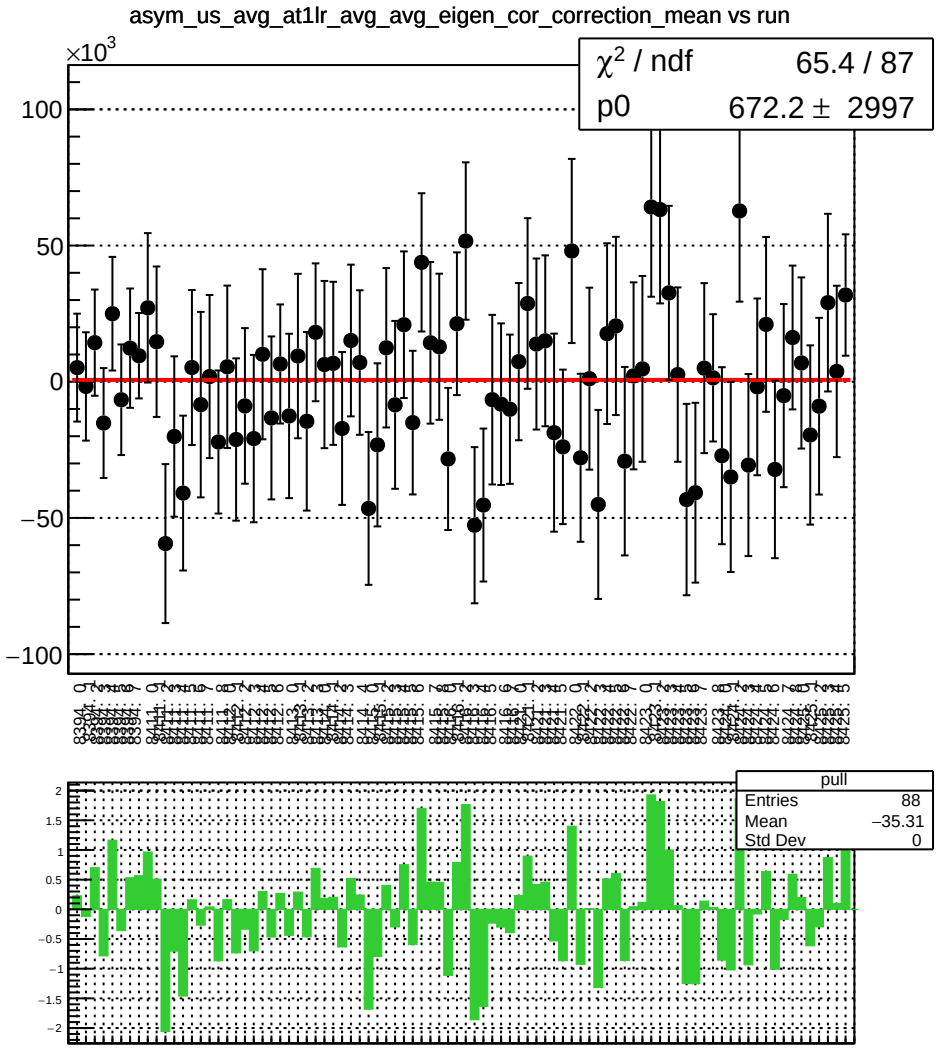

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 65.4 / 87
p0 672.2 ± 2997
100
50
0
−50
−100
pull
Entries 88
Mean −35.31
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

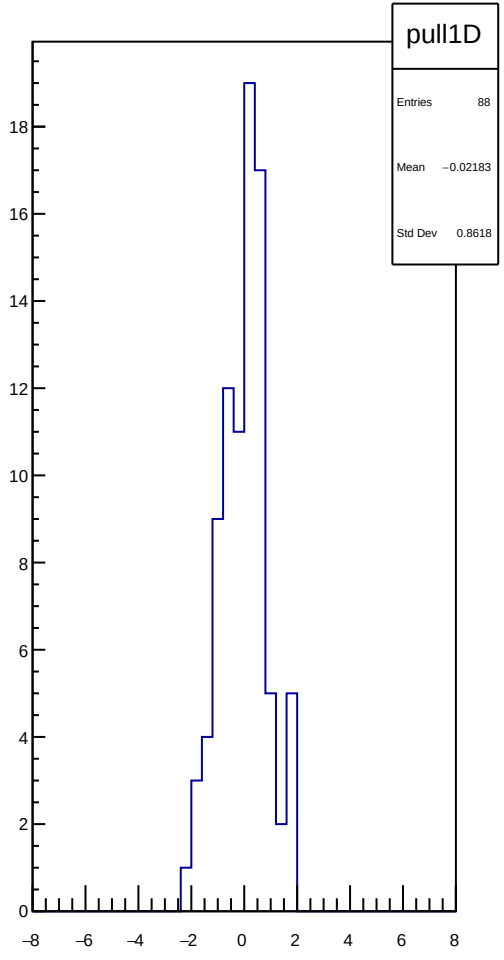

pull1D
Entries 88
Mean −0.02183
Std Dev 0.8618
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

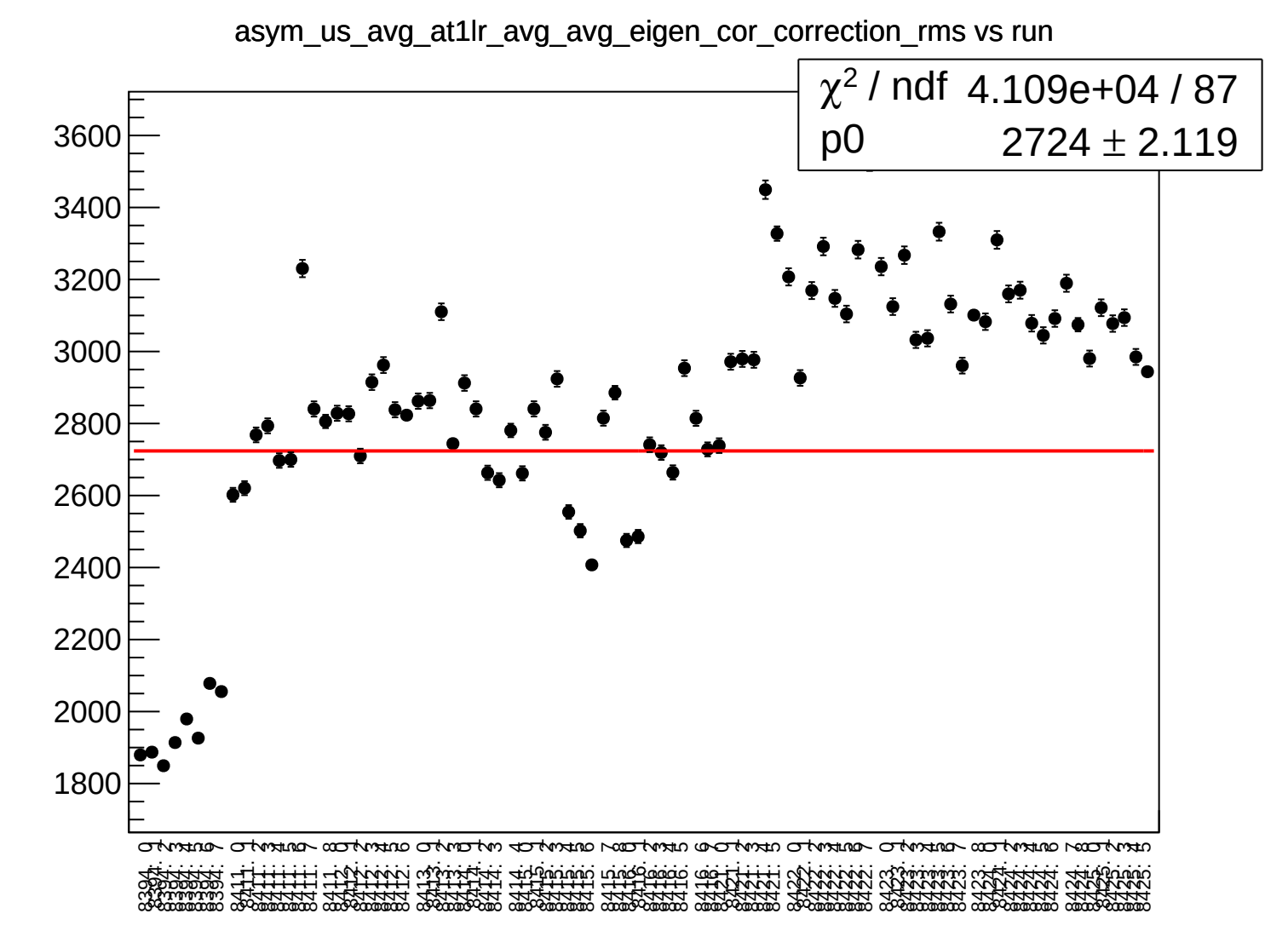

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 4.109e+04 / 87
p0 2724 ± 2.119
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

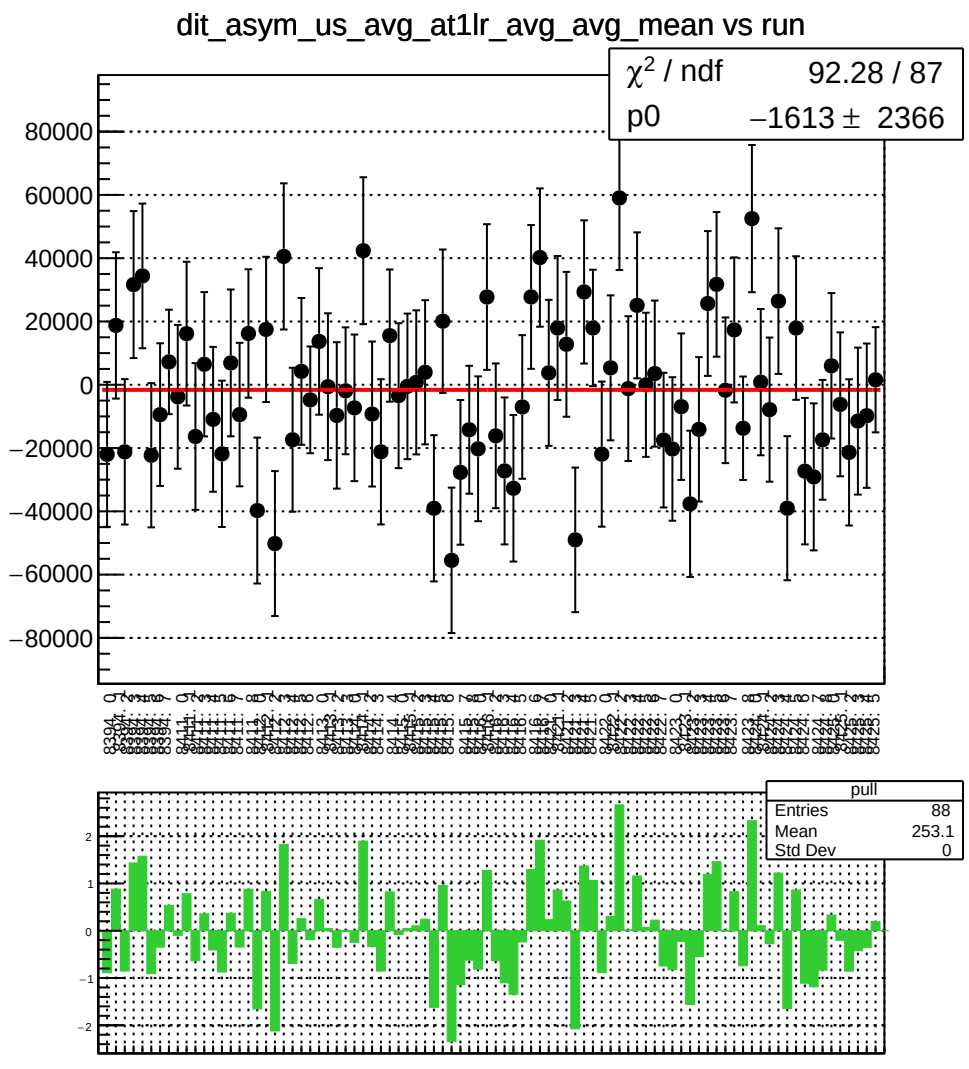

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 92.58 / 87
p0 −1772 ± 2360
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 245.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.002092
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

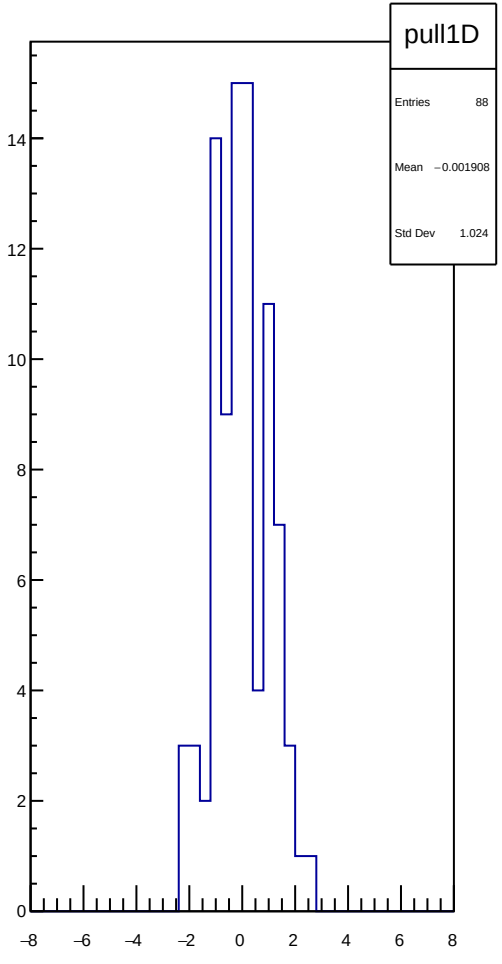

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 92.99 / 87
p0 2171 ± 1.669
2220
2200
2180
2160
2140
2120

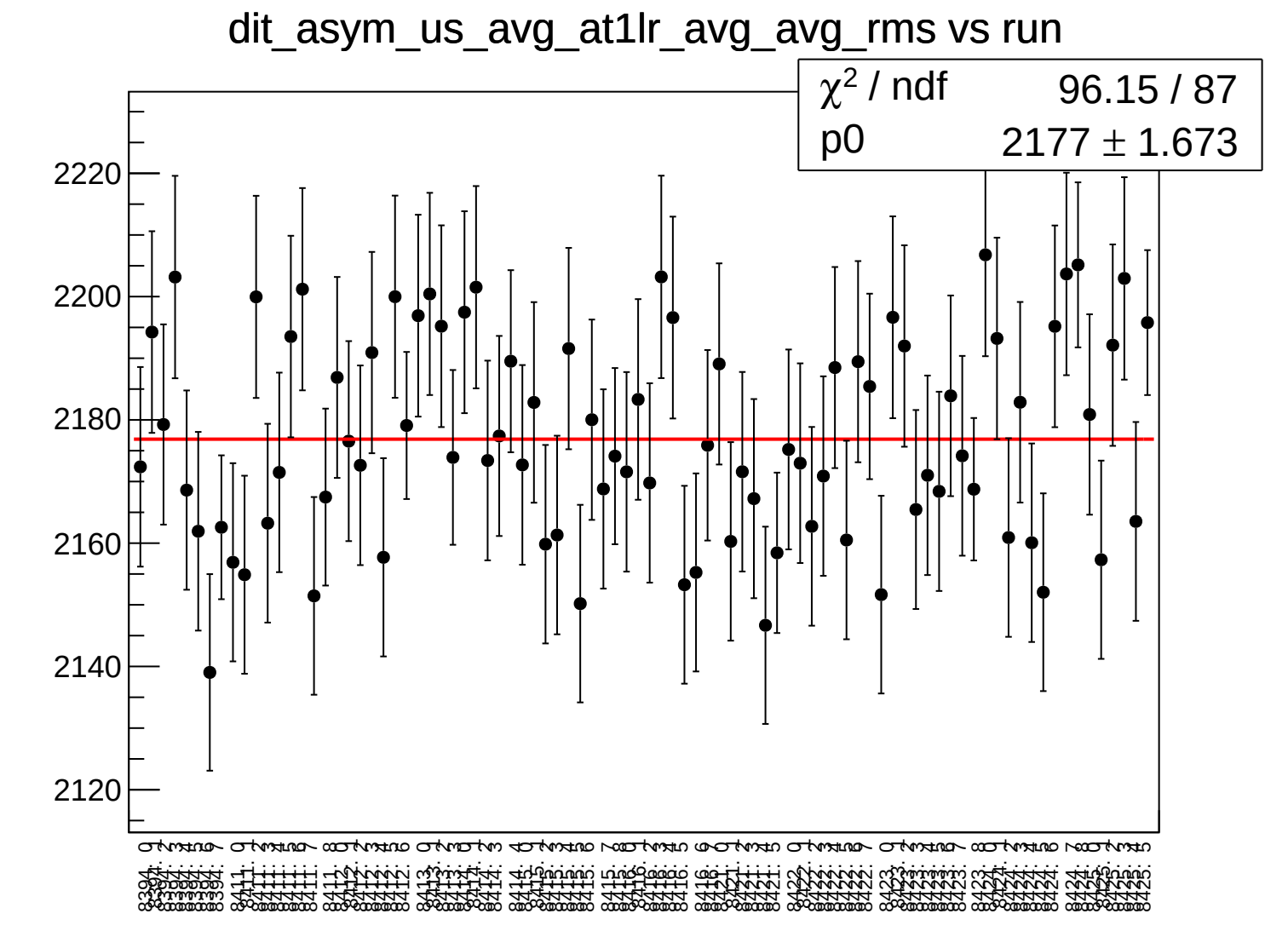

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 65.4 / 87
p0 672.2 ± 2997
100
50
0
−50
−100
pull
Entries 88
Mean −35.31
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

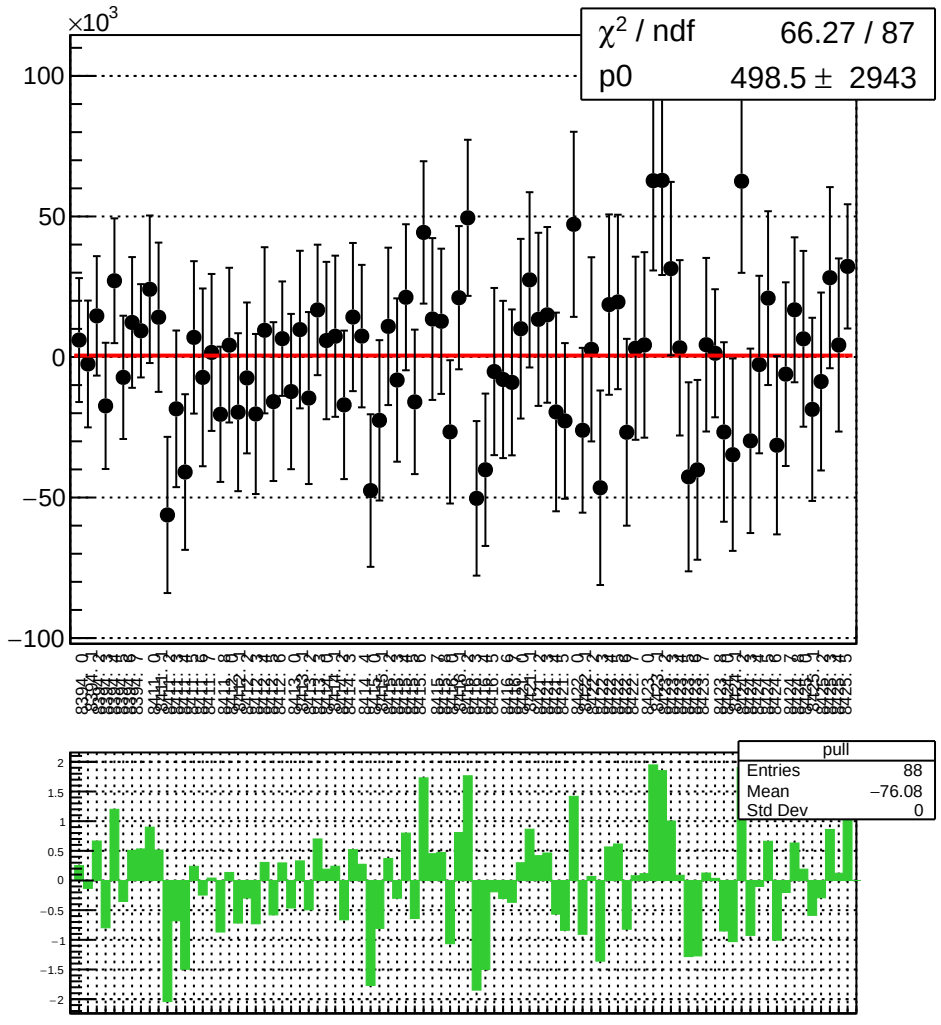

pull1D
Entries 88
Mean −0.02183
Std Dev 0.8618
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

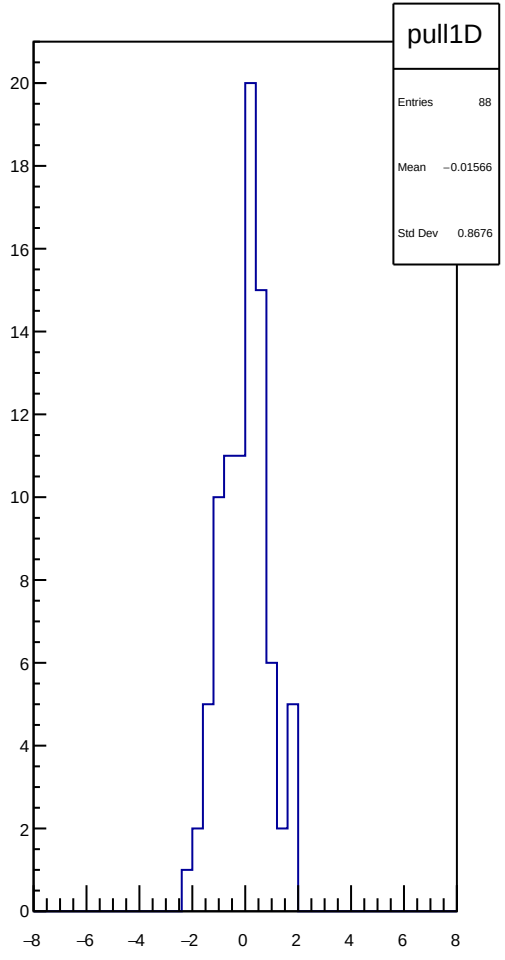

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.109e+04 / 87
p0 2724 ± 2.119
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

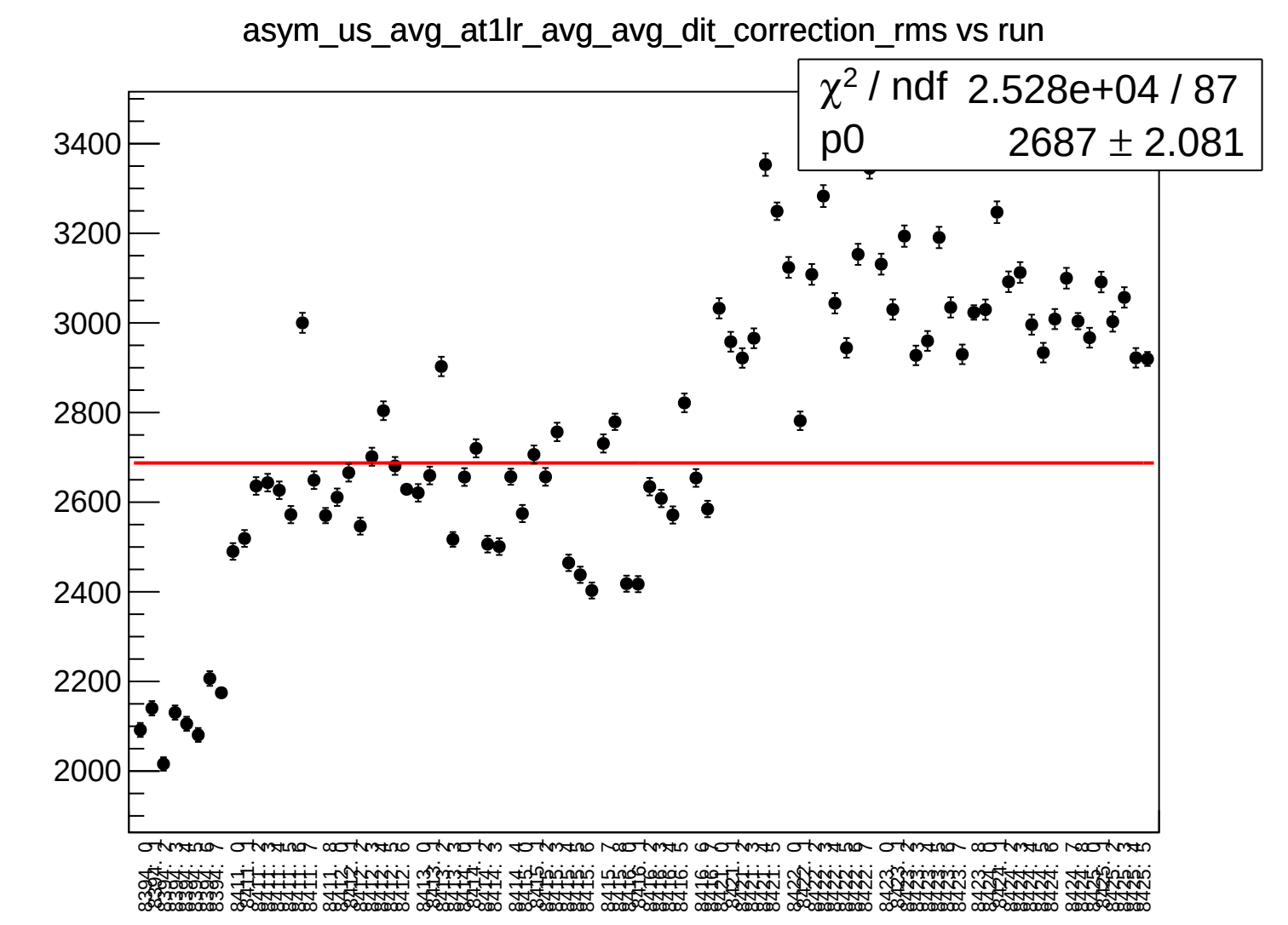

dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 92.28 / 87
p0 −1613 ± 2366
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 253.1
Std Dev 0
2
1
0
−1
−2

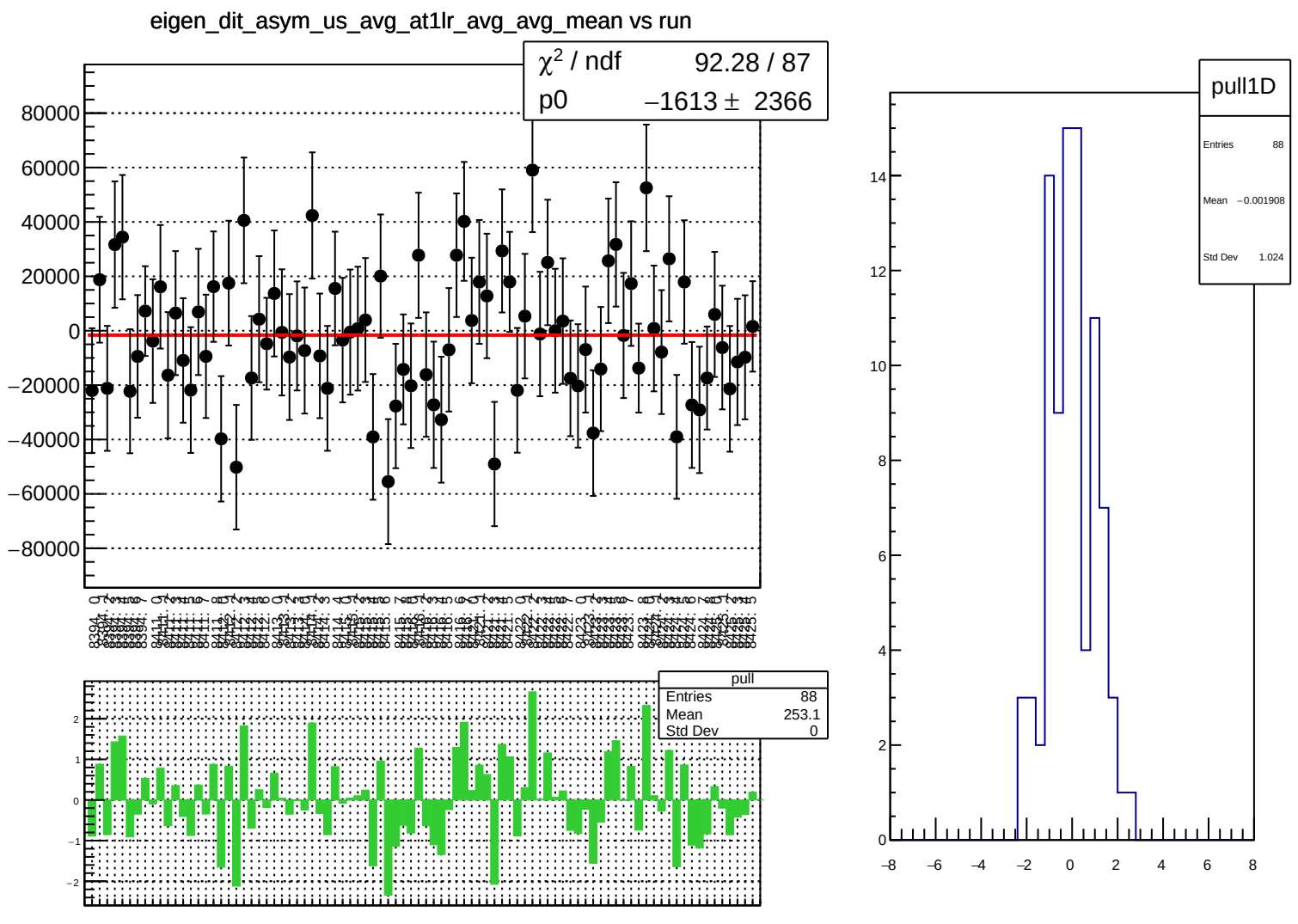

pull1D
Entries 88
Mean −0.001908
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

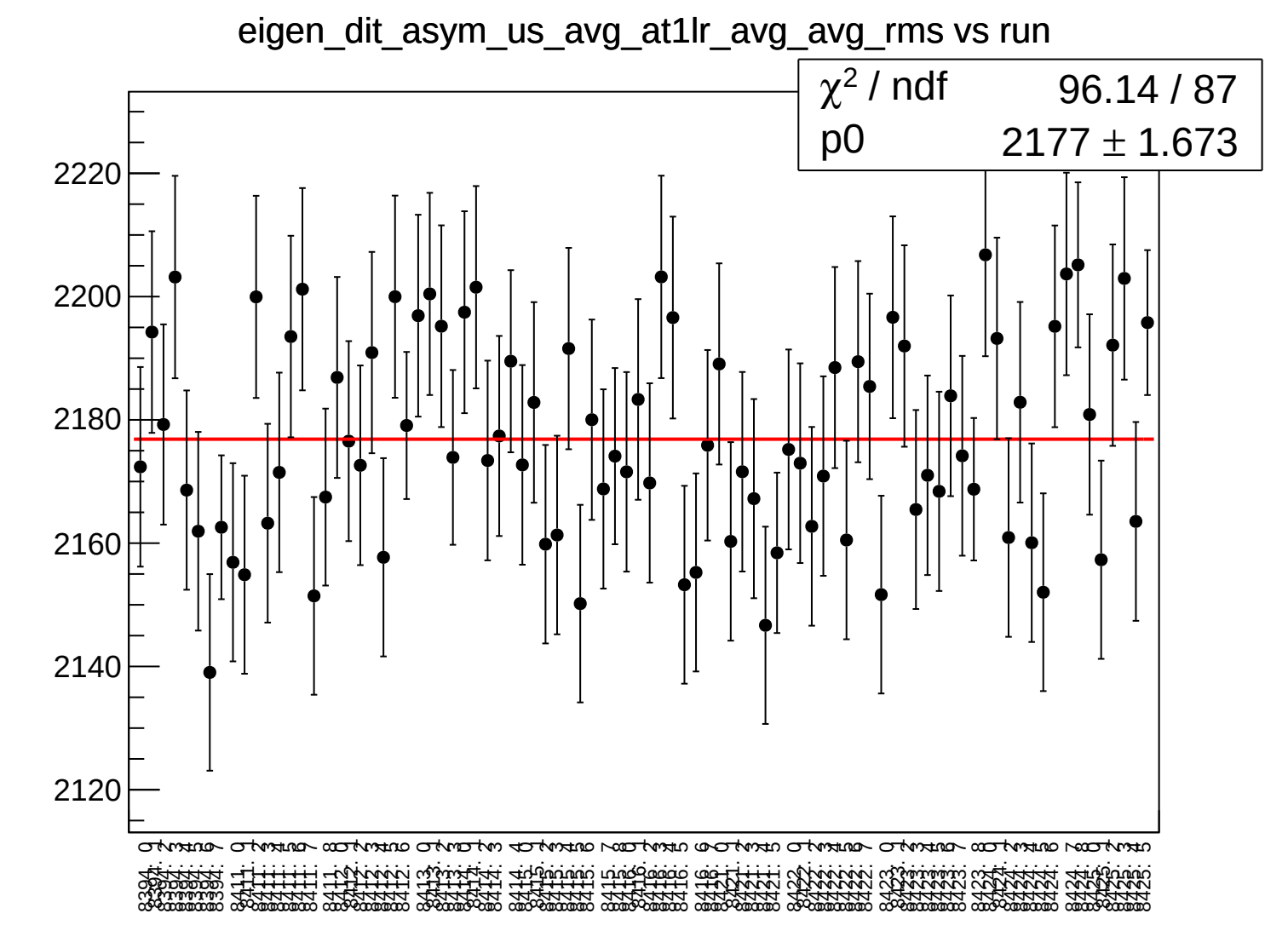

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 96.15 / 87
p0 2177 ± 1.673
2220
2200
2180
2160
2140
2120

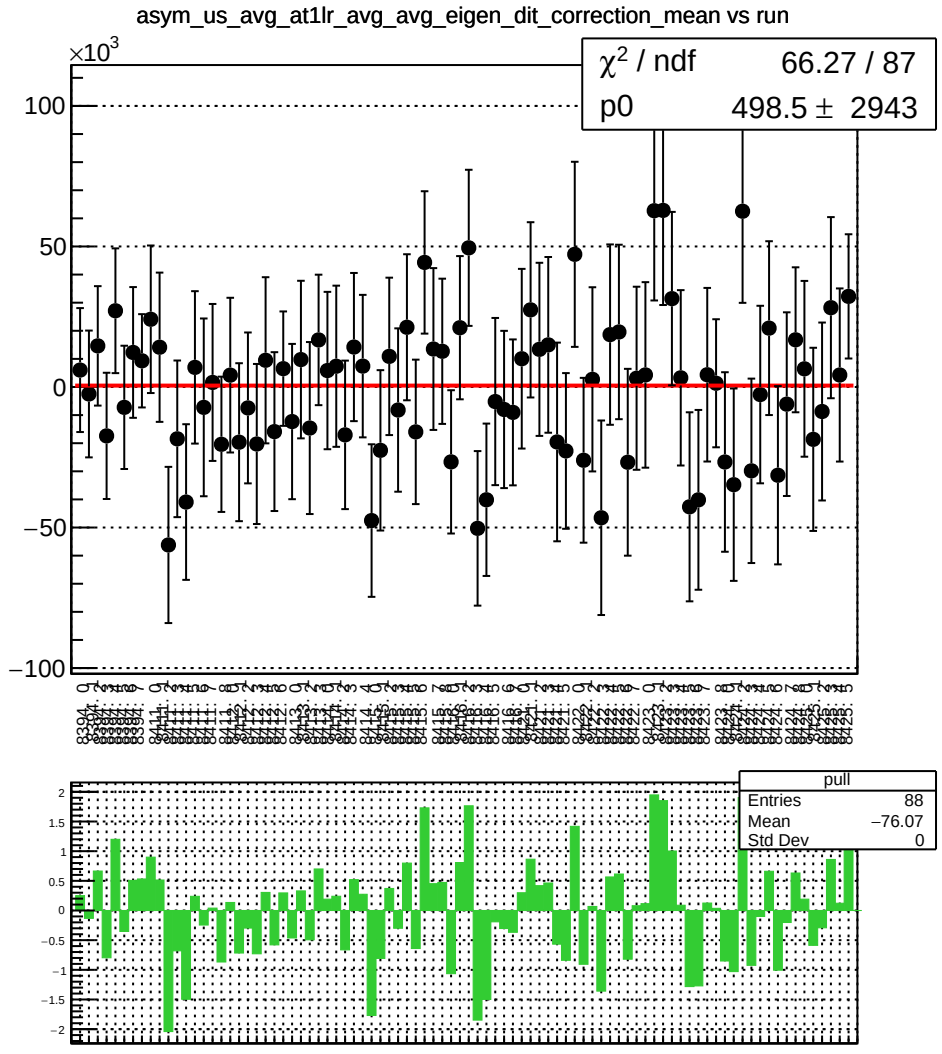

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 66.27 / 87
p0 498.5 ± 2943
100
50
0
−50
−100
pull
Entries 88
Mean −76.08
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

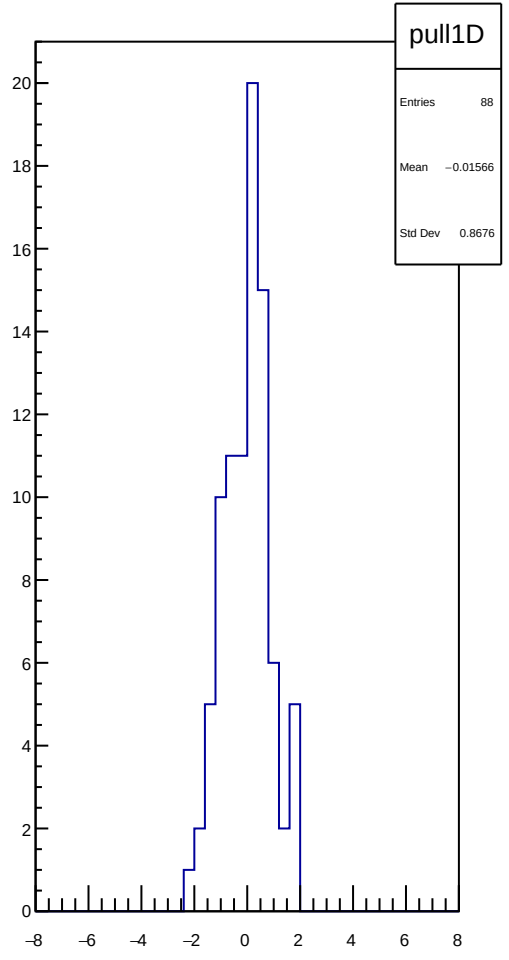

pull1D
Entries 88
Mean −0.01566
Std Dev 0.8676
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

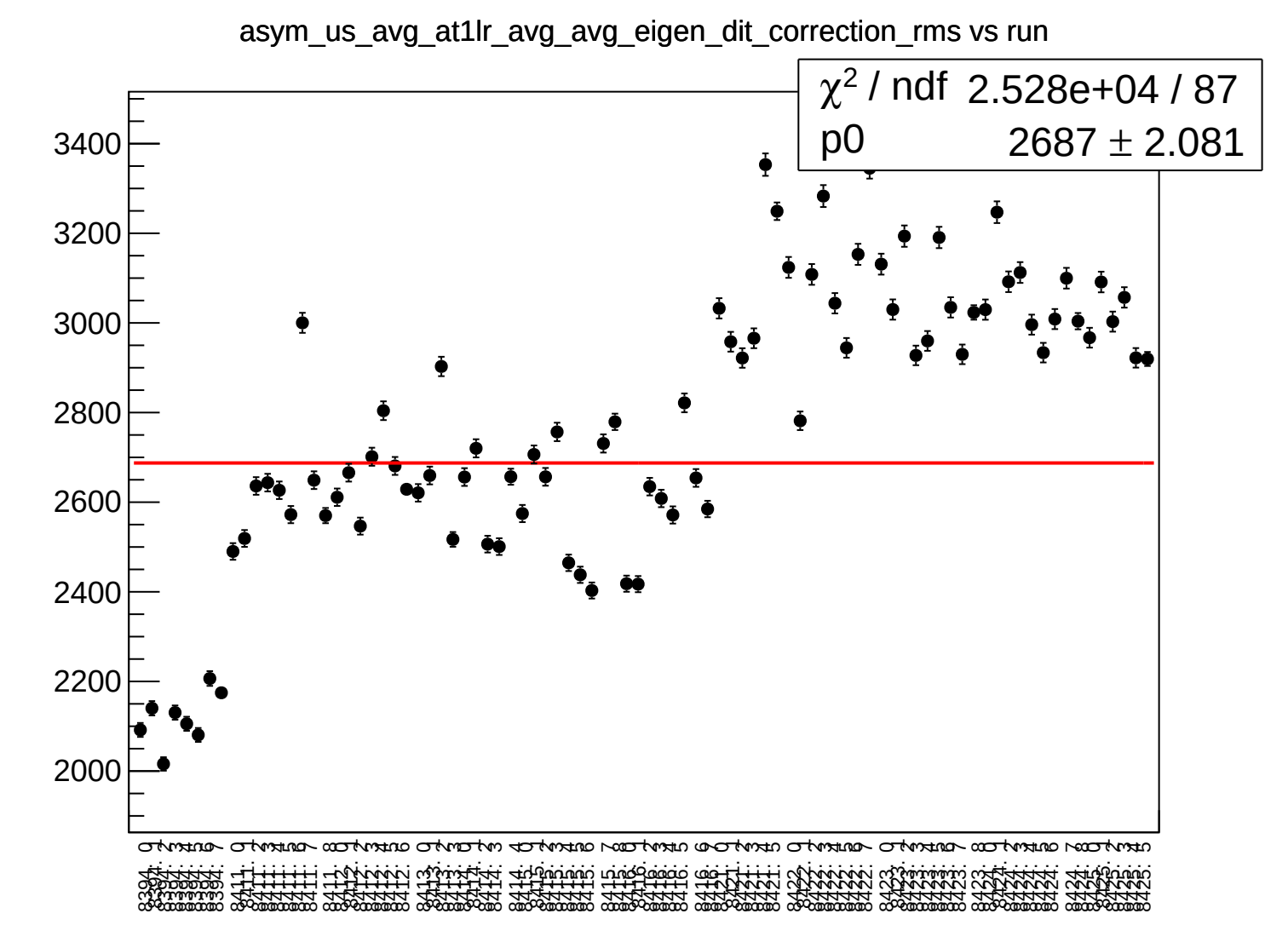

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 2.528e+04 / 87
p0 2687 ± 2.081
3400
3200
3000
2800
2600
2400
2200
2000

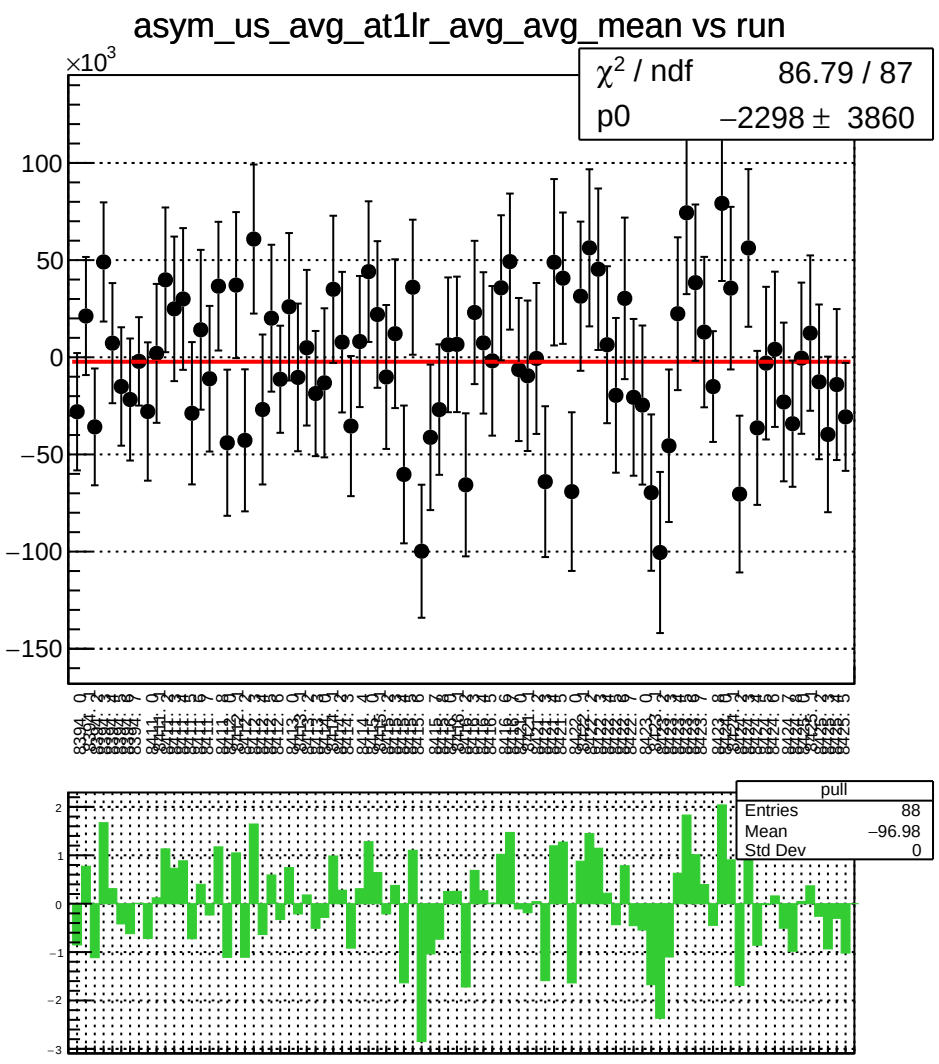

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 92.28 / 87
p0 −1613 ± 2366
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 253.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.001908
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

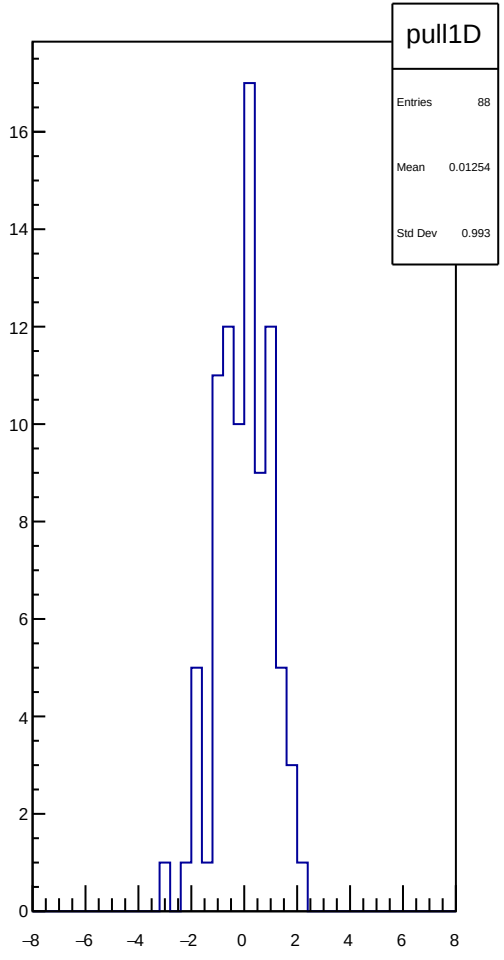

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 96.14 / 87
p0 2177 ± 1.673
2220
2200
2180
2160
2140
2120

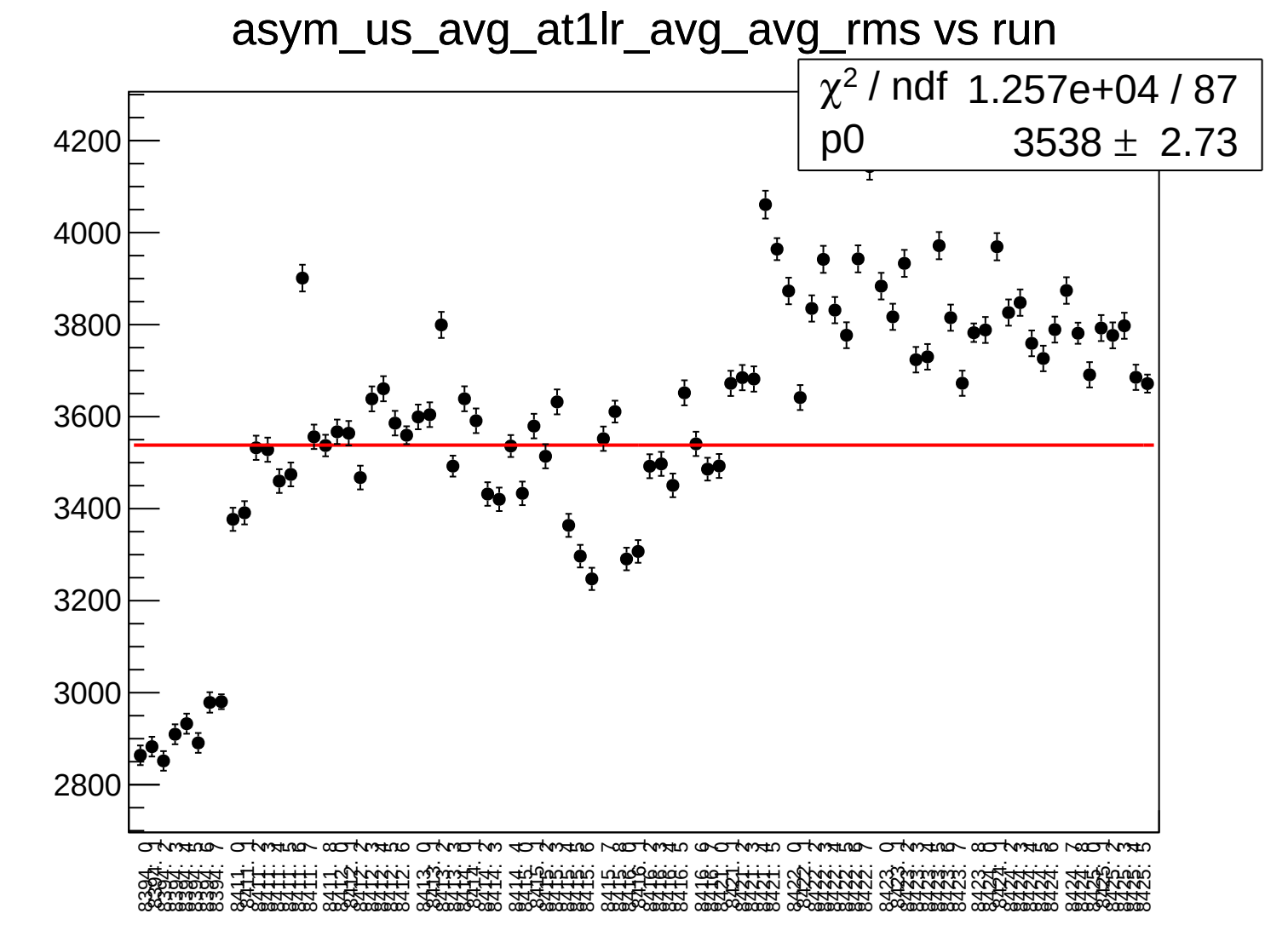

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 66.27 / 87
p0 498.5 ± 2943
100
50
0
−50
−100
pull
Entries 88
Mean −76.07
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

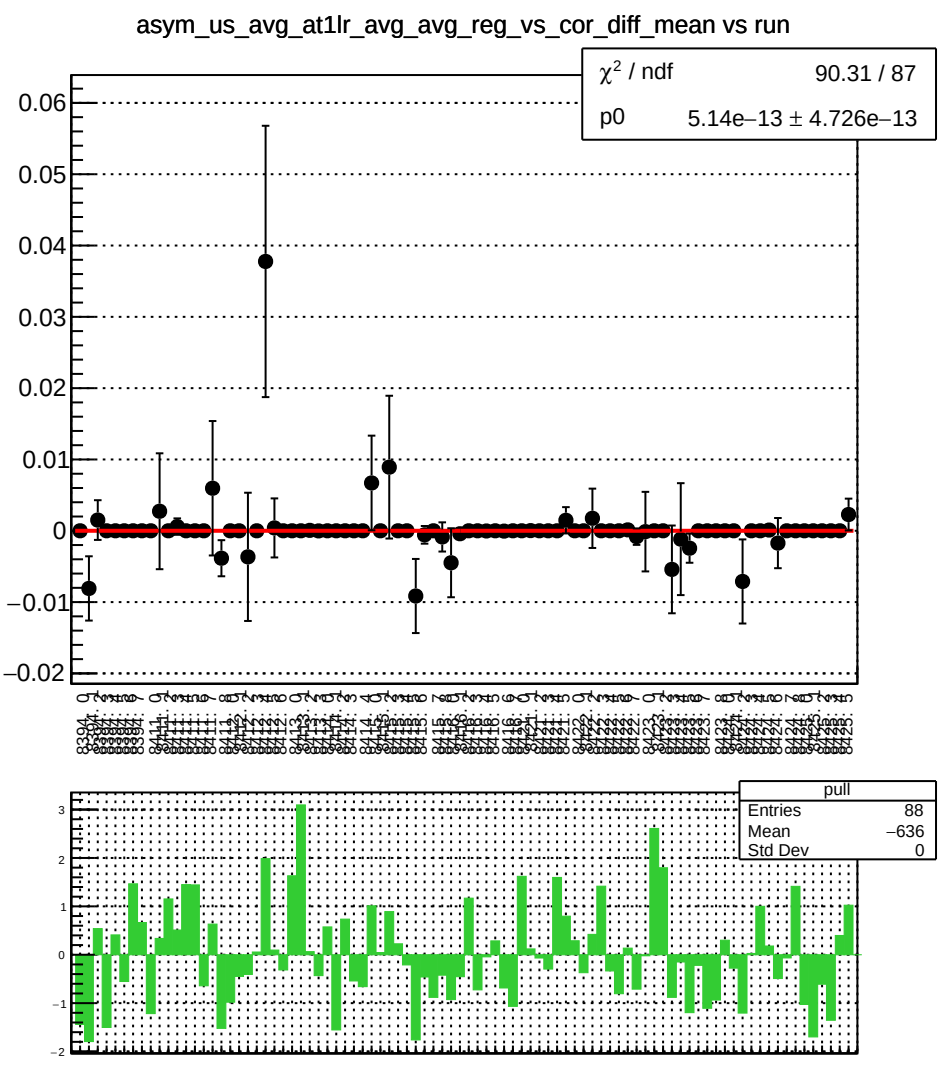

pull1D
Entries 88
Mean −0.01566
Std Dev 0.8676
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

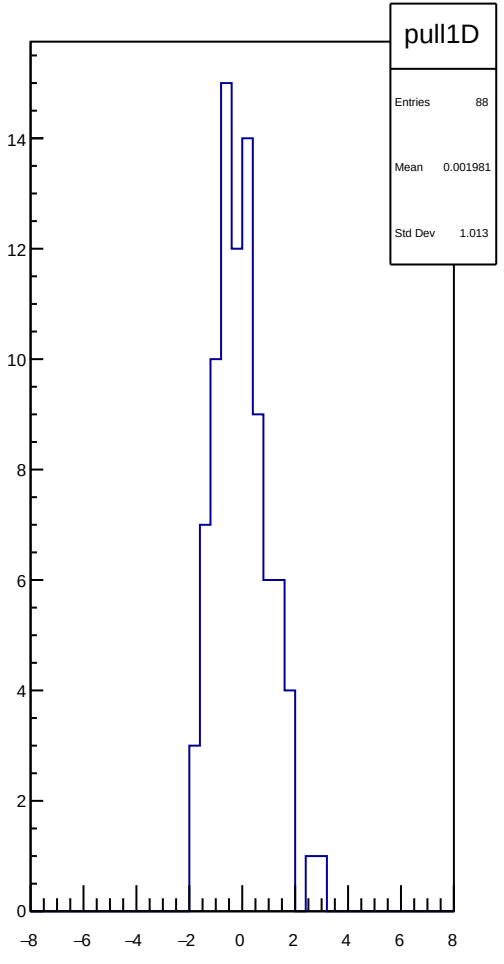

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.528e+04 / 87
p0 2687 ± 2.081
3400
3200
3000
2800
2600
2400
2200
2000

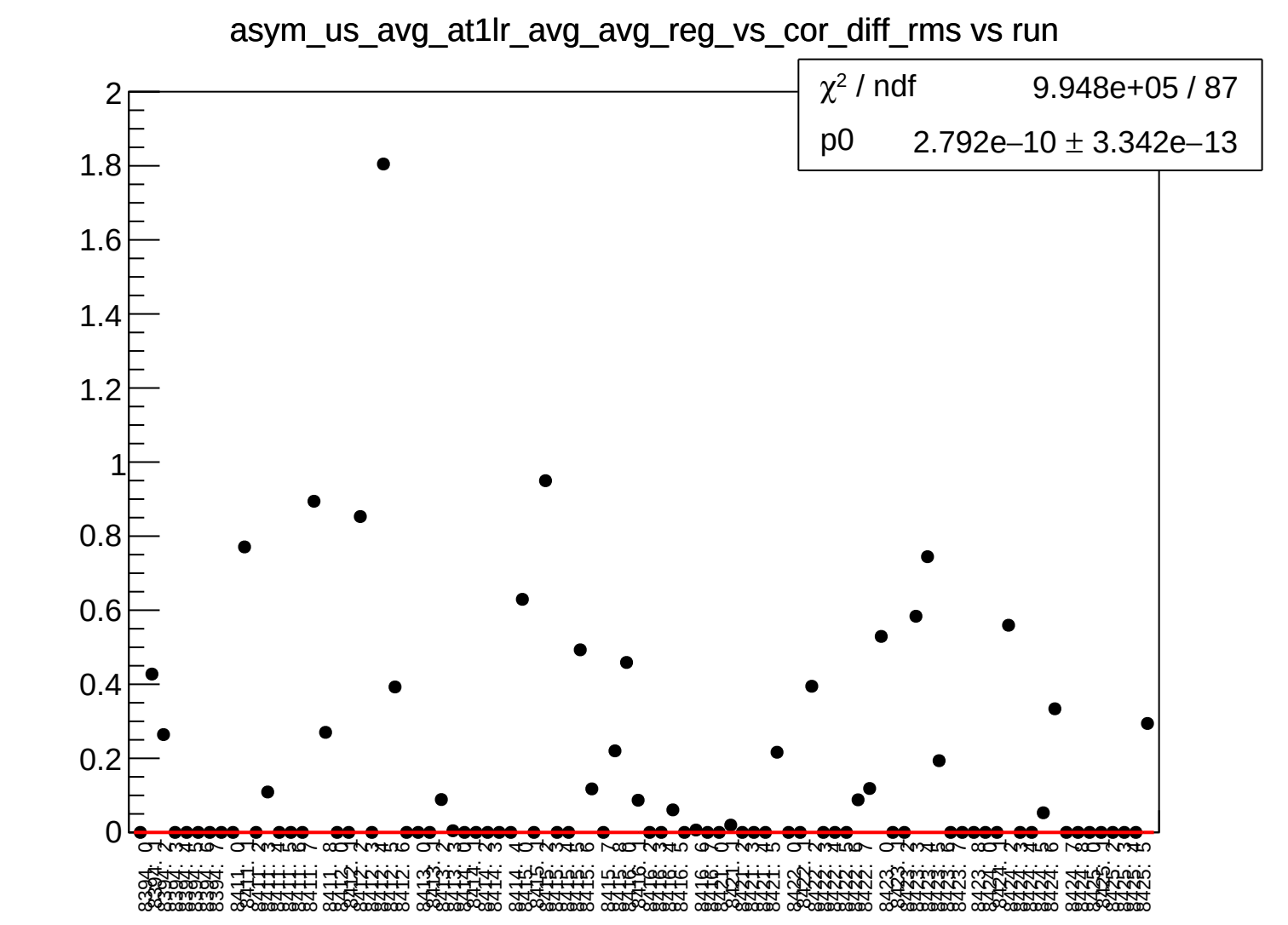

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 86.79 / 87
p0 −2298 ± 3860
100
50
0
−50
−100
−150
pull
Entries 88
Mean −96.98
Std Dev 0
2
1
0
−1
−2
−3

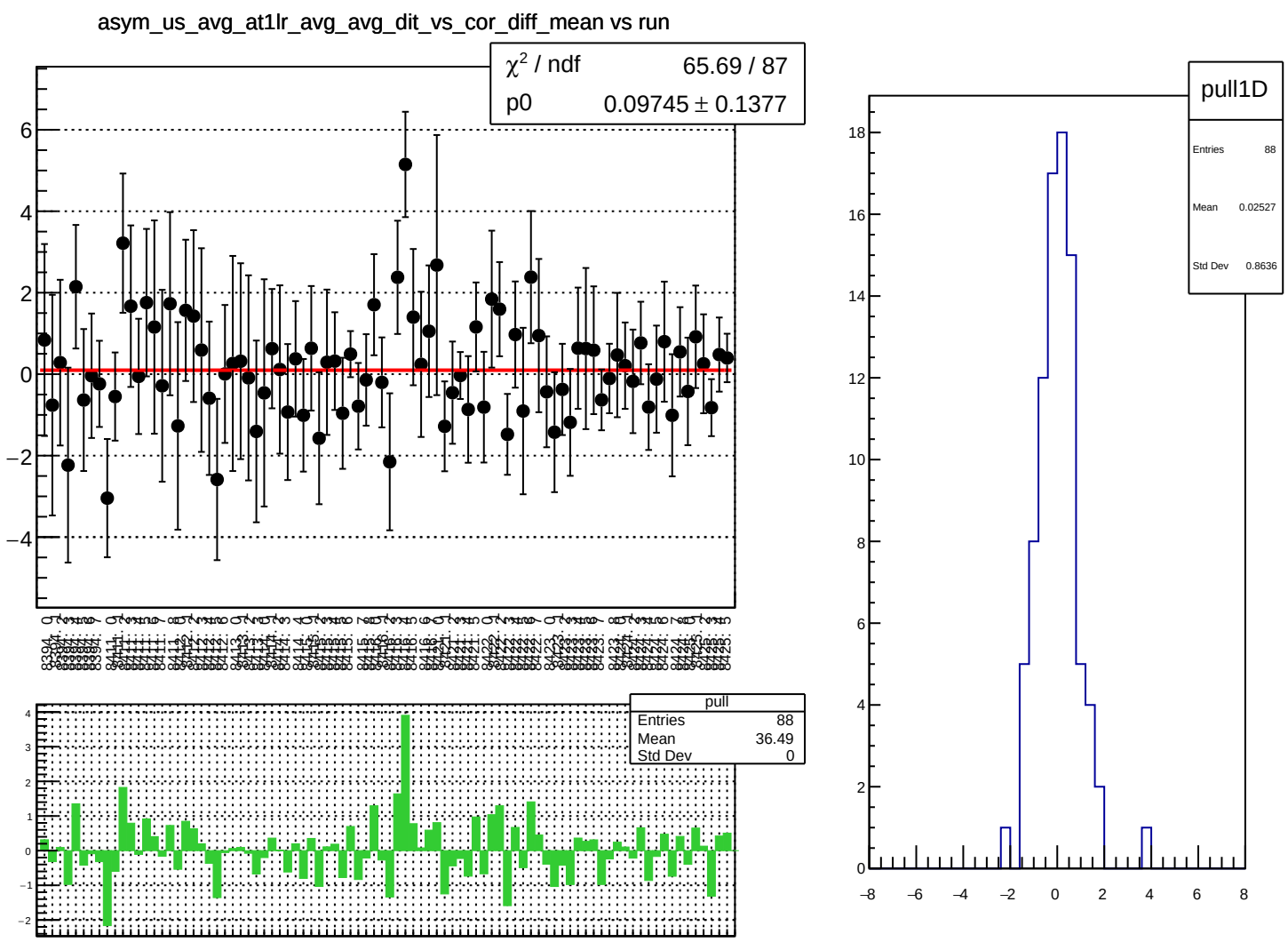

pull1D
Entries 88
Mean 0.01254
Std Dev 0.993
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

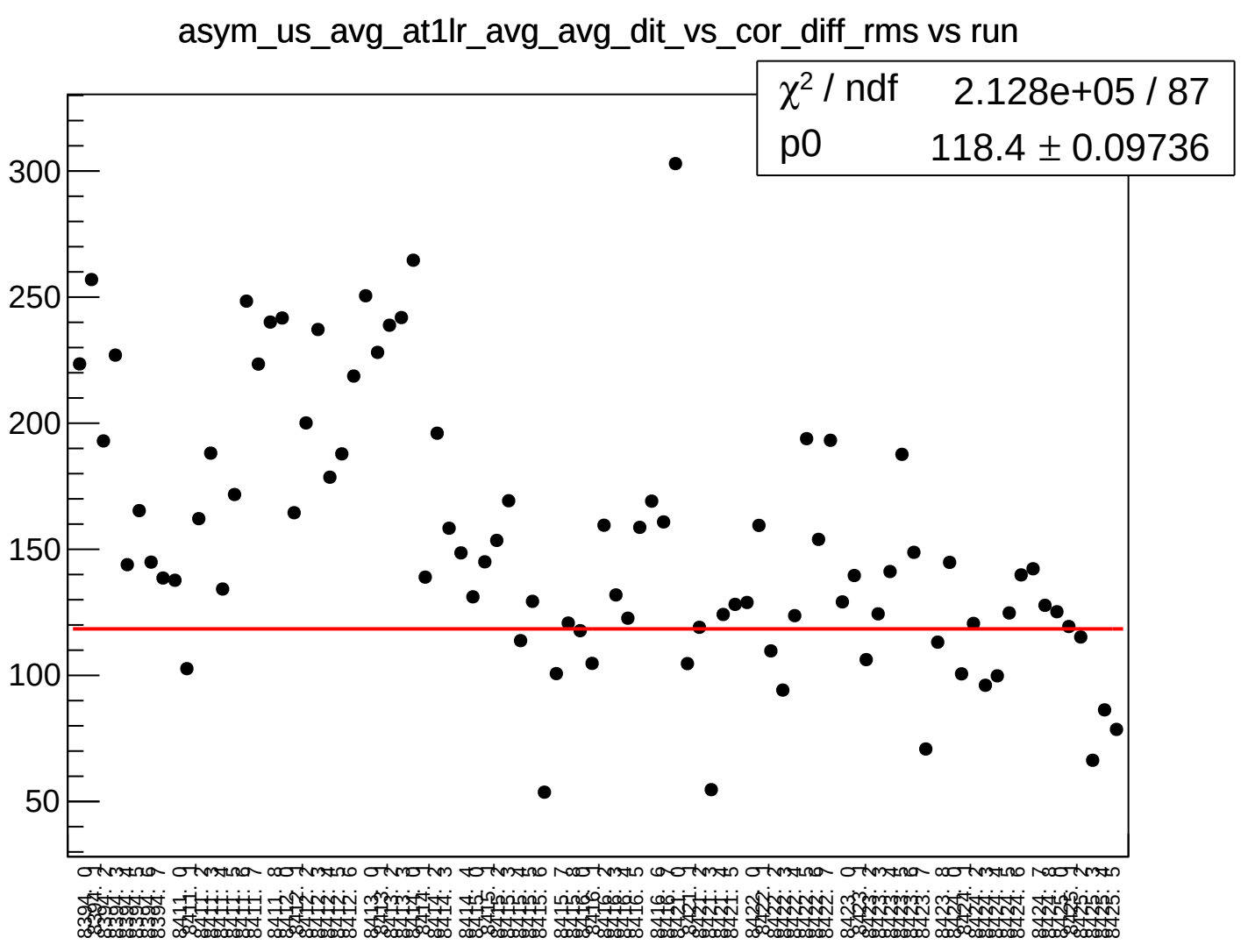

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1.257e+04 / 87
p0 3538 ± 2.73
4200
4000
3800
3600
3400
3200
3000
2800

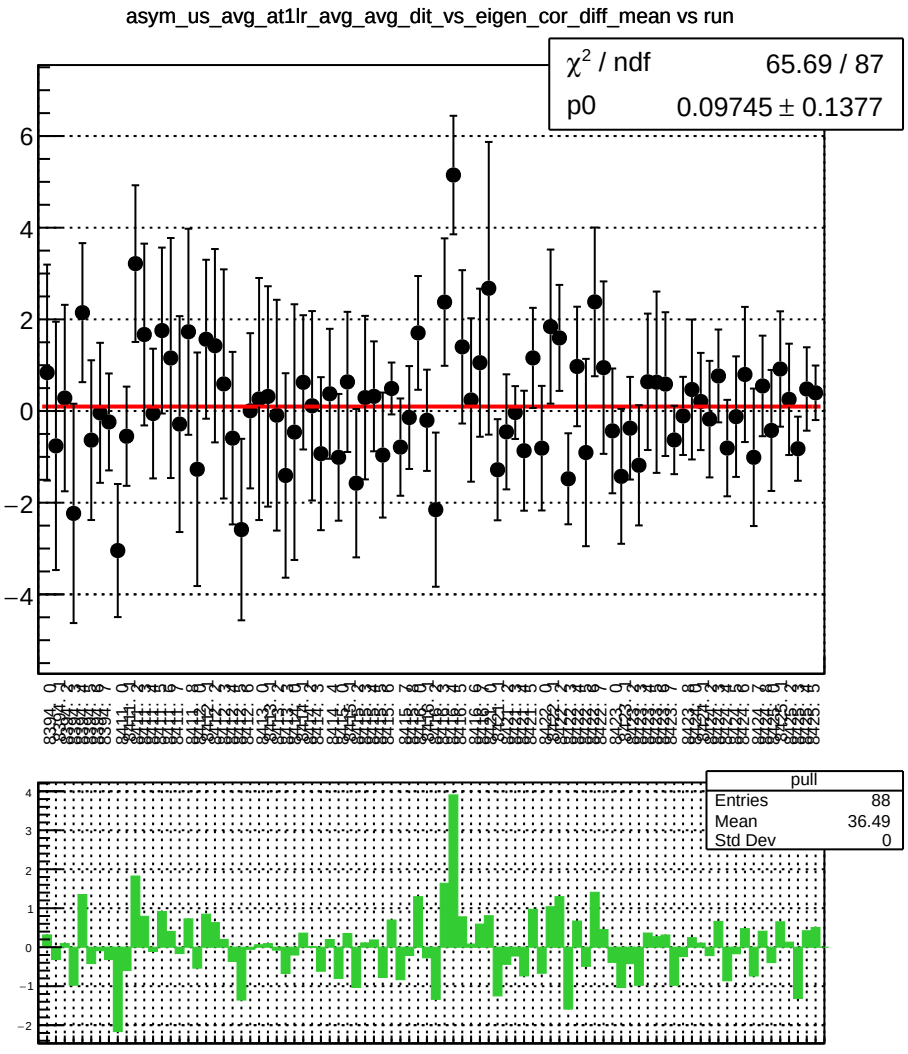

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.31 / 87
p0 5.14e−13 ± 4.726e−13
pull
Entries 88
Mean −636
Std Dev 0

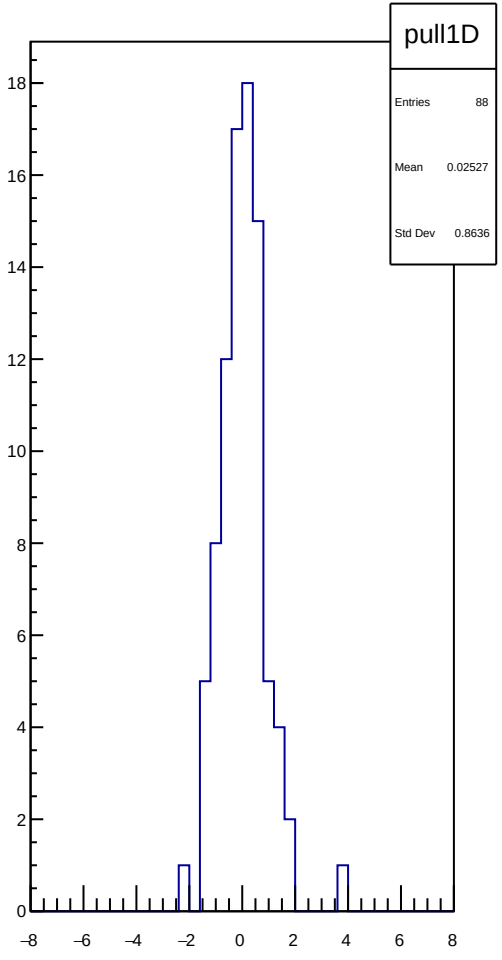

pull1D
Entries 88
Mean 0.001981
Std Dev 1.013

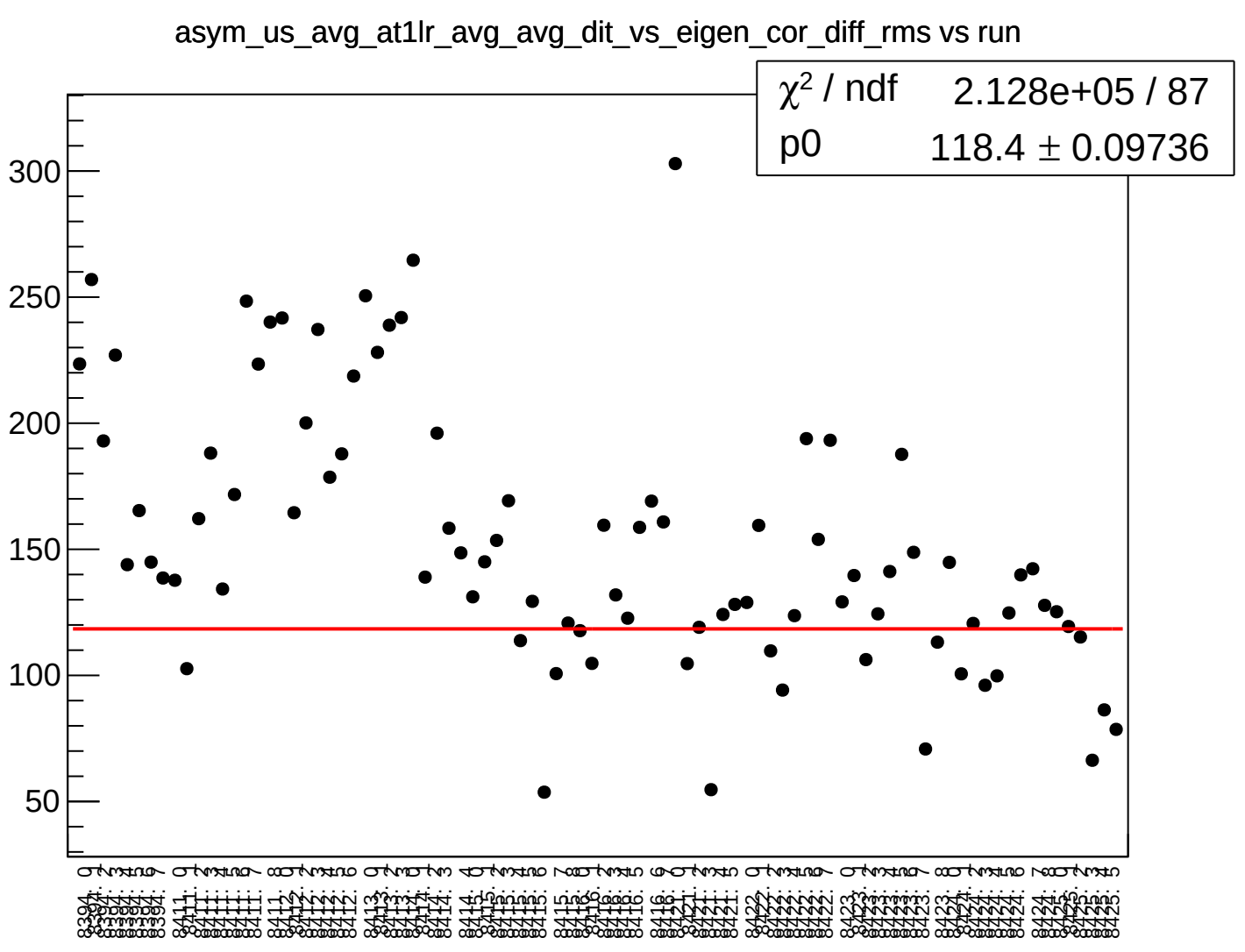

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.948e+05 / 87
p0 2.792e−10 ± 3.342e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

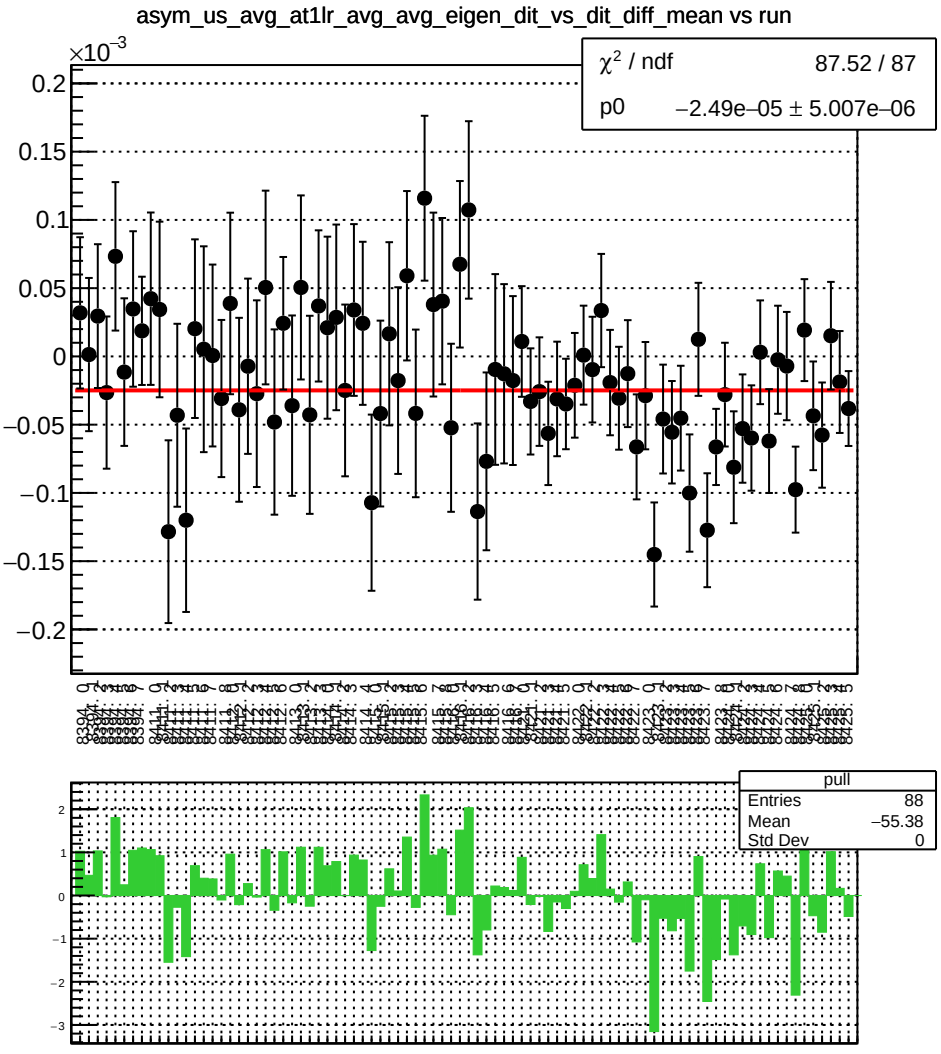

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 65.69 / 87
p0 0.09745 ± 0.1377
pull
Entries 88
Mean 36.49
Std Dev 0
pull1D
Entries 88
Mean 0.02527
Std Dev 0.8636

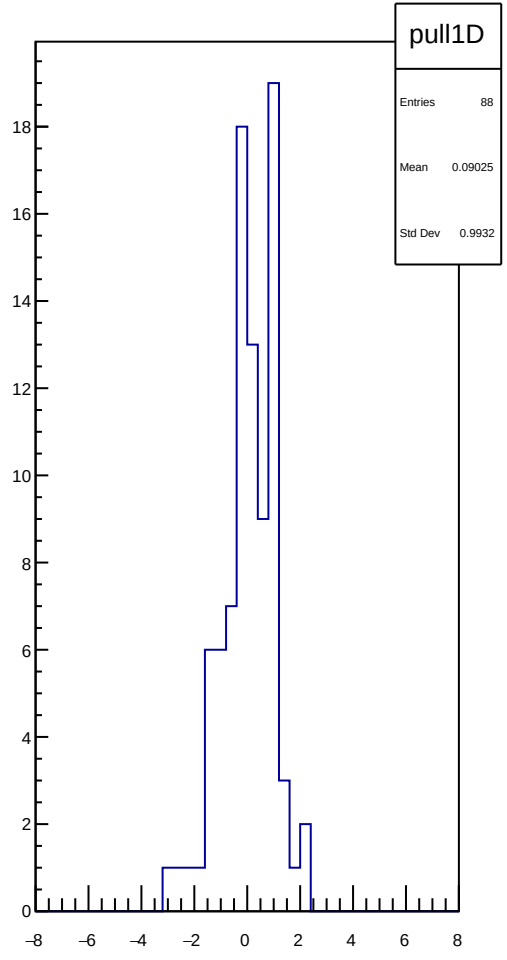

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.128e+05 / 87
p0 118.4 ± 0.09736
300
250
200
150
100
50

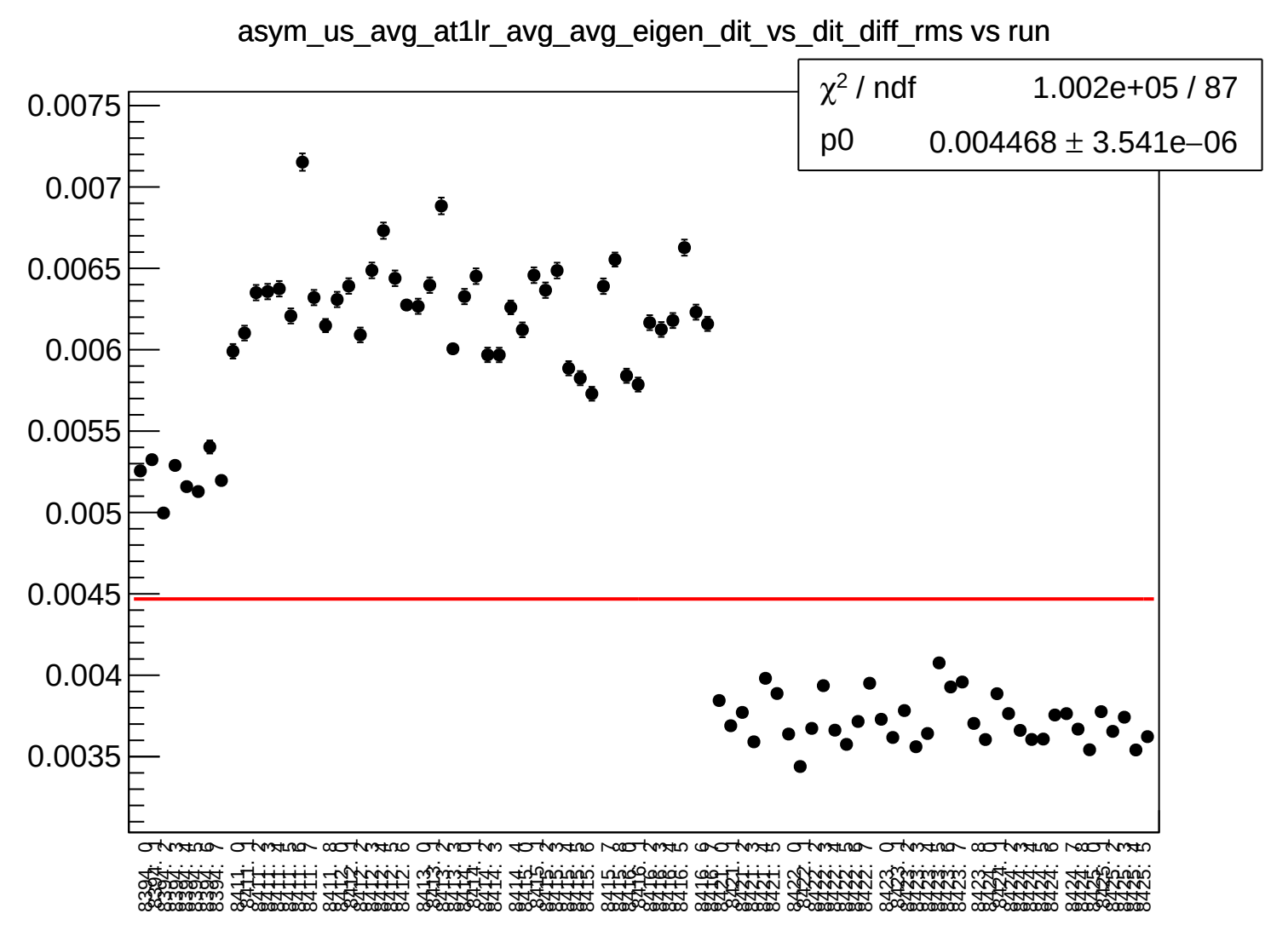

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.69 / 87
p0 0.09745 ± 0.1377
pull
Entries 88
Mean 36.49
Std Dev 0

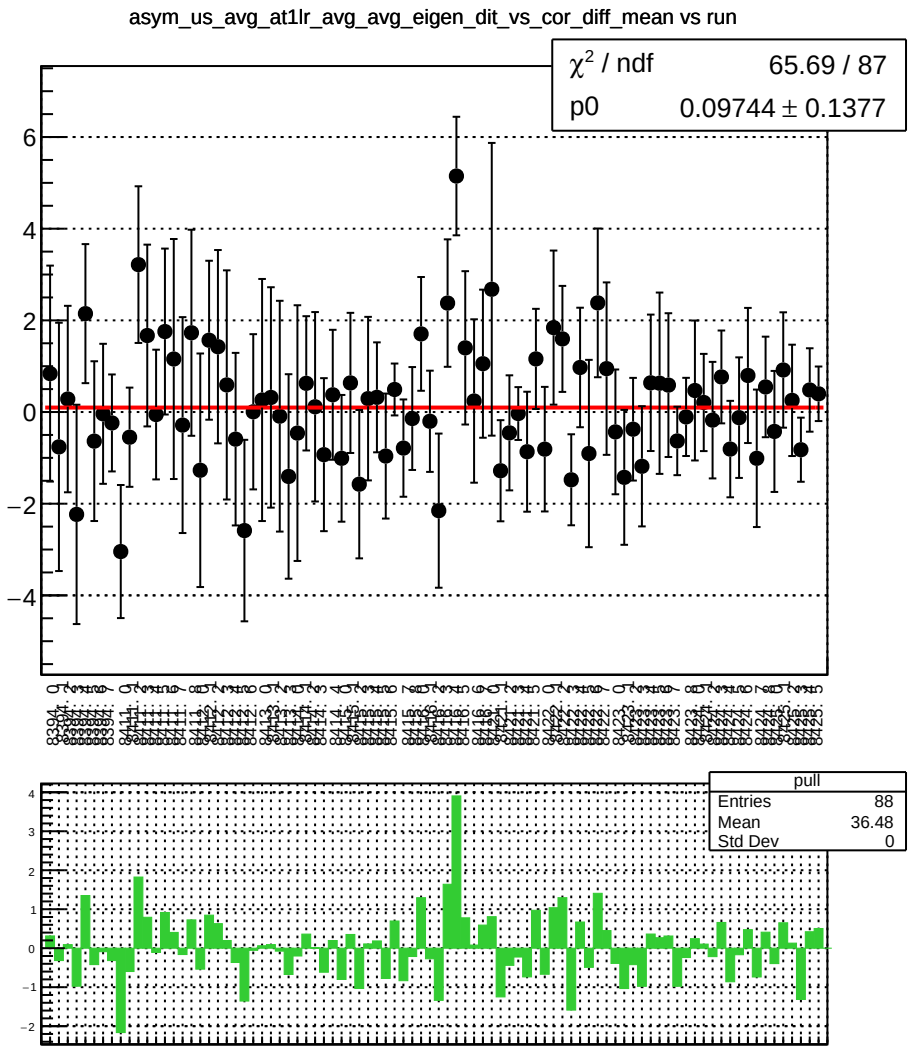

pull1D
Entries 88
Mean 0.02527
Std Dev 0.8636

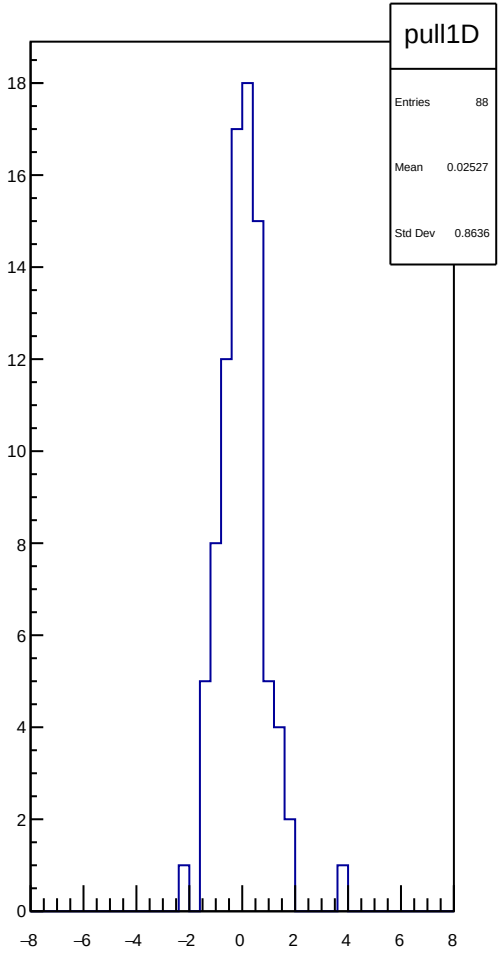

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.128e+05 / 87
p0 118.4 ± 0.09736
300
250
200
150
100
50

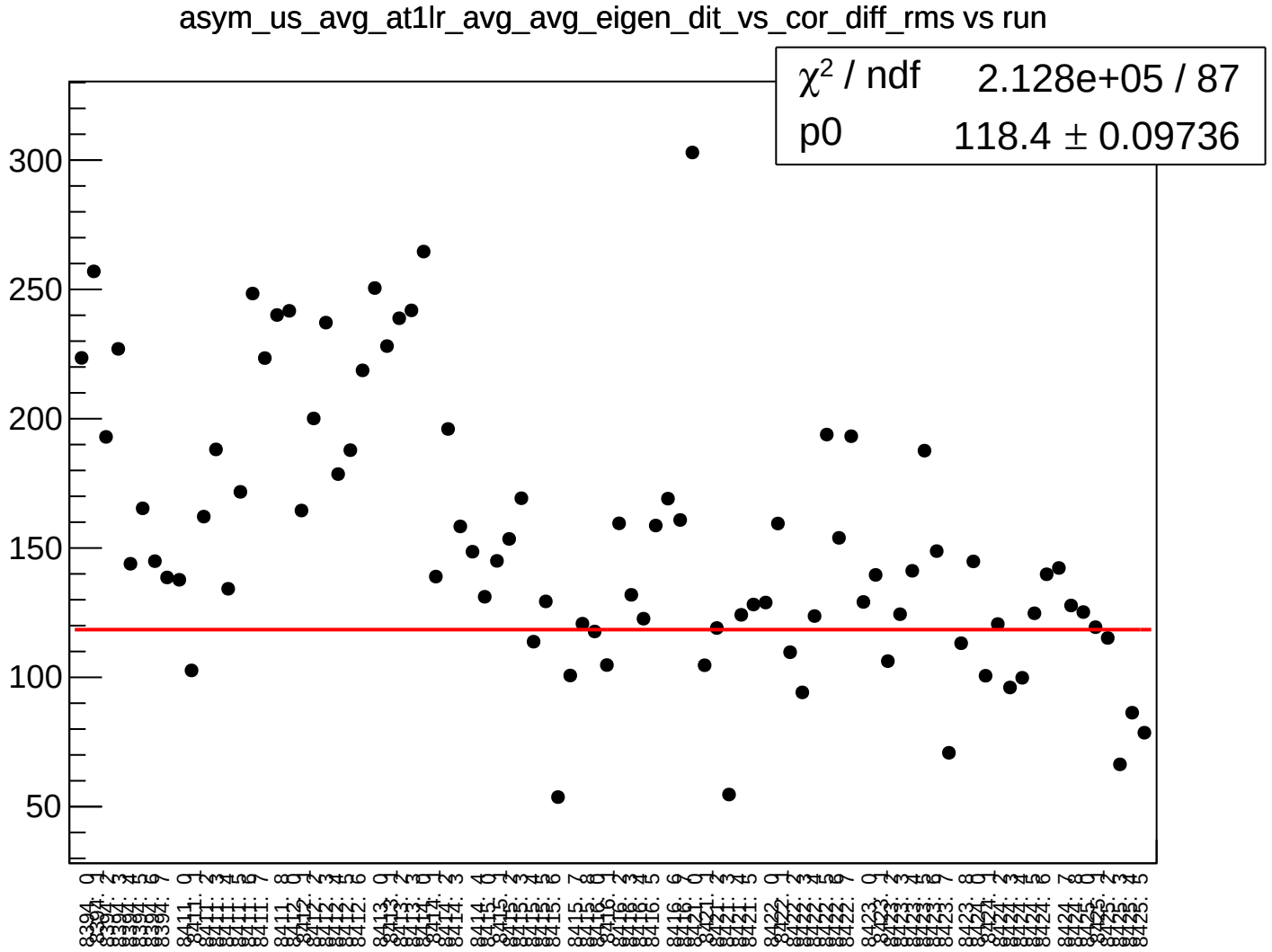

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.52 / 87
p0 −2.49e−05 ± 5.007e−06
pull
Entries 88
Mean −55.38
Std Dev 0

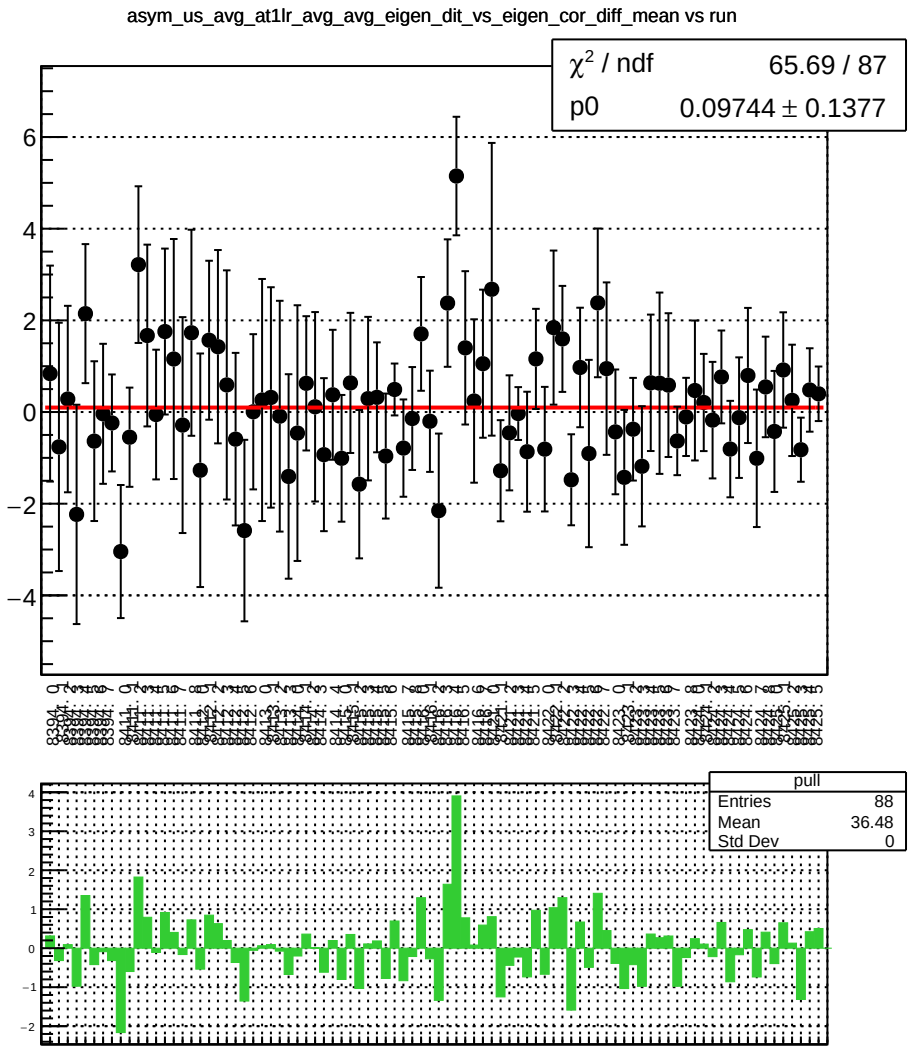

pull1D
Entries 88
Mean 0.09025
Std Dev 0.9932

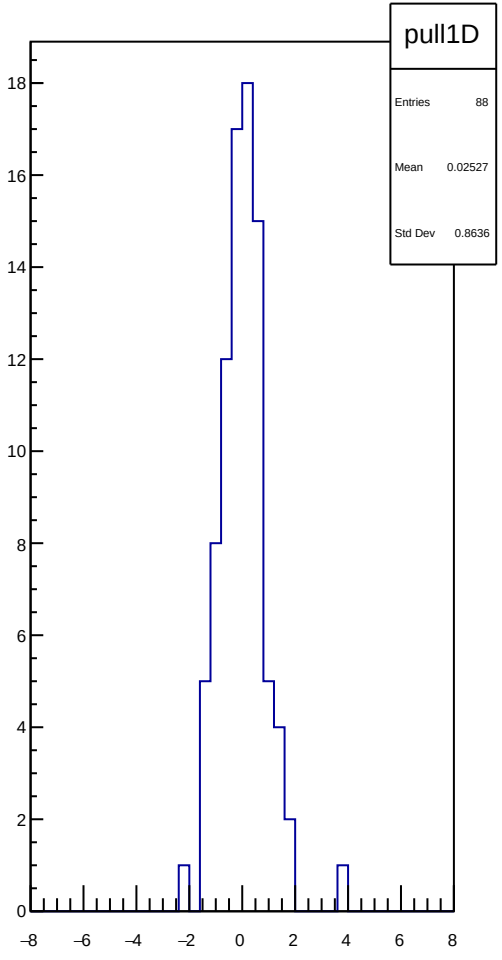

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.002e+05 / 87
p0 0.004468 ± 3.541e−06
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

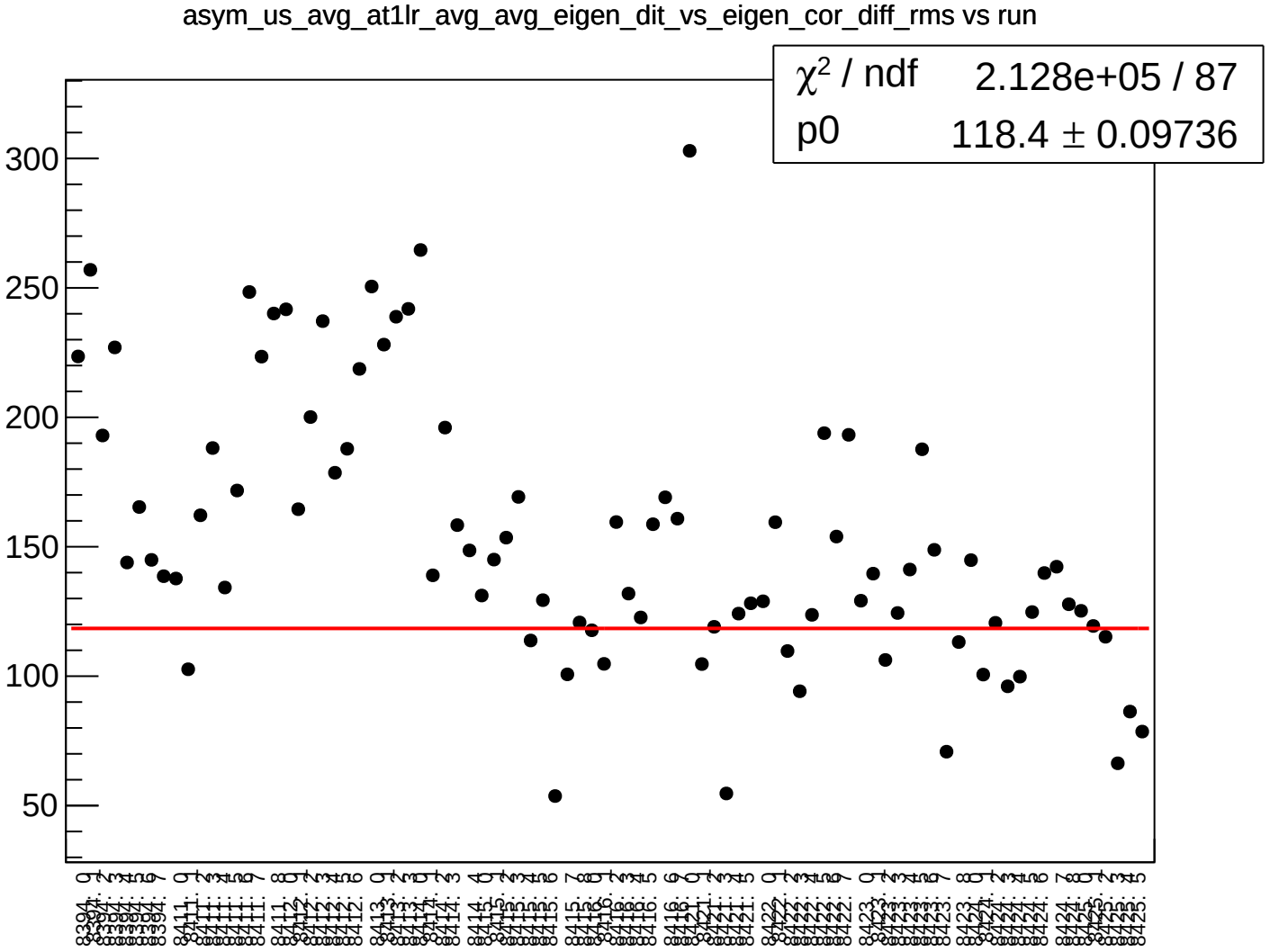

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 65.69 / 87
p0 0.09744 ± 0.1377
pull
Entries 88
Mean 36.48
Std Dev 0

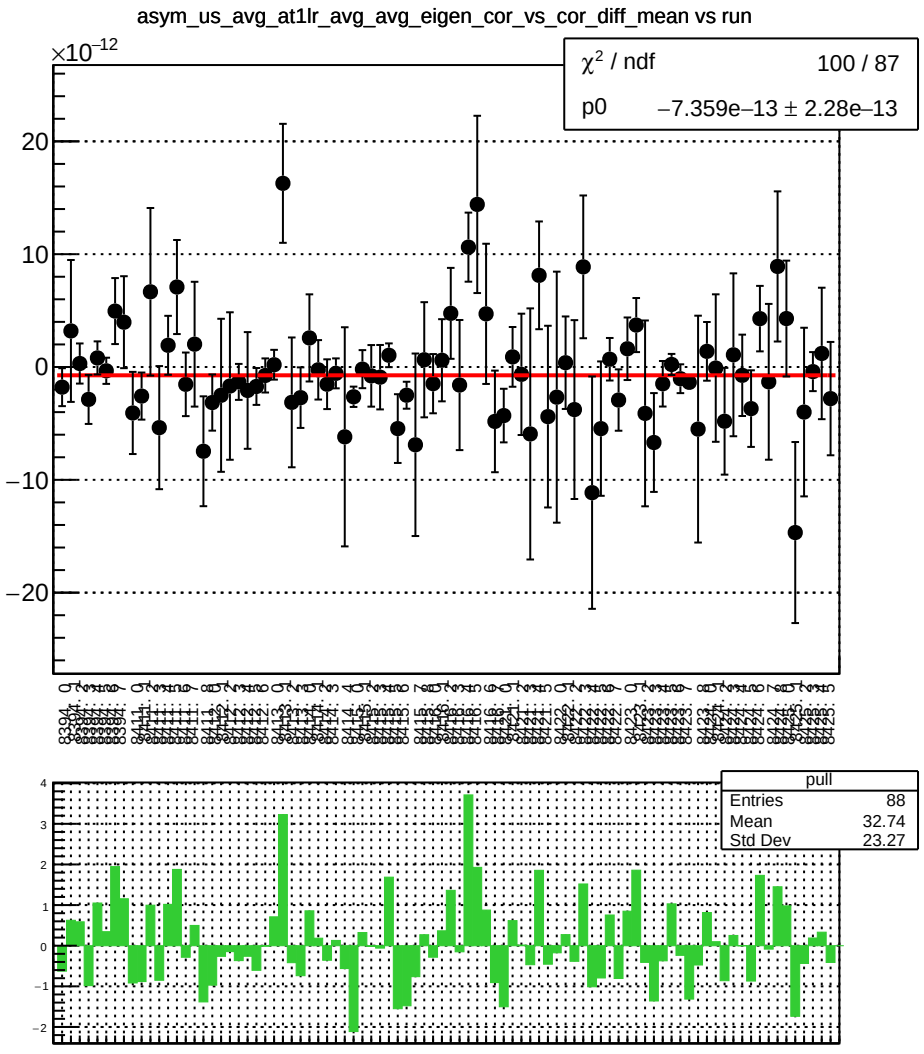

pull1D
Entries 88
Mean 0.02527
Std Dev 0.8636

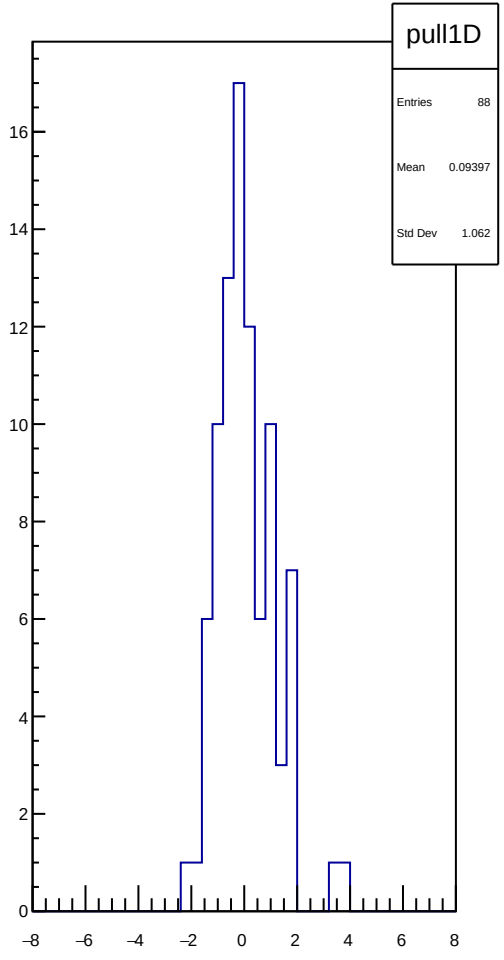

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.128e+05 / 87
p0 118.4 ± 0.09736
300
250
200
150
100
50

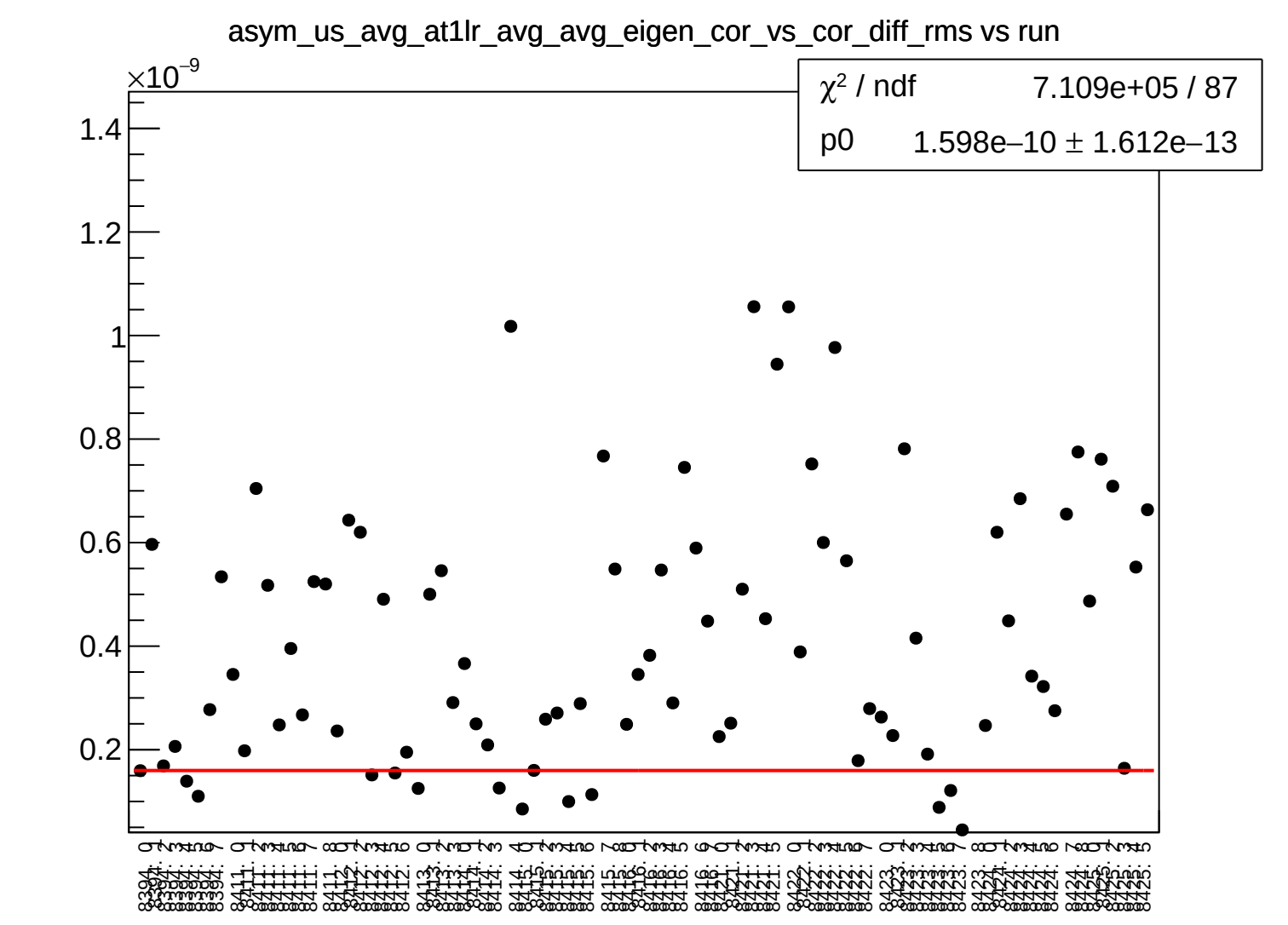

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.69 / 87
p0 0.09744 ± 0.1377
pull
Entries 88
Mean 36.48
Std Dev 0

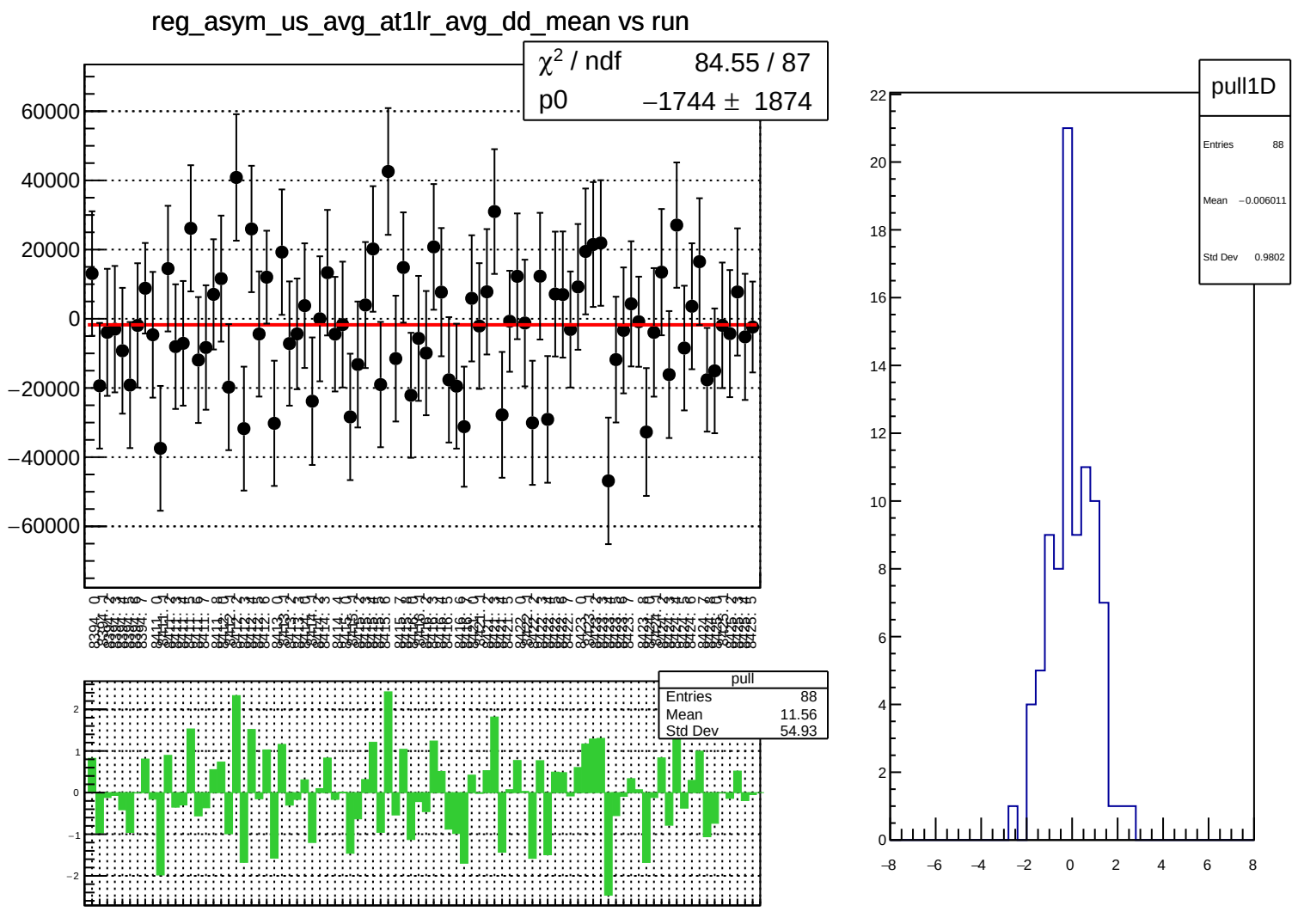

pull1D
Entries 88
Mean 0.02527
Std Dev 0.8636

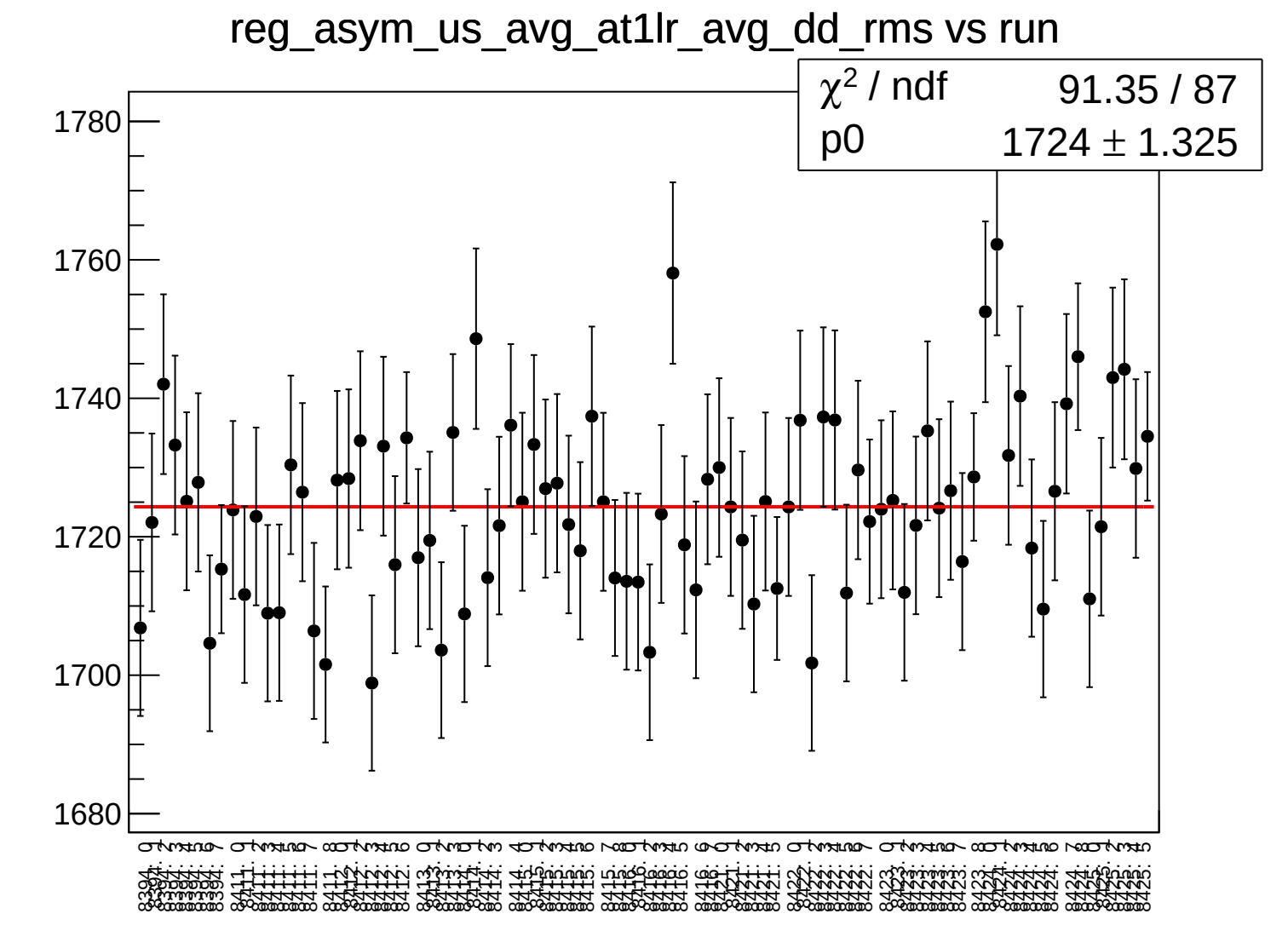

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.128e+05 / 87
p0 118.4 ± 0.09736
300
250
200
150
100
50

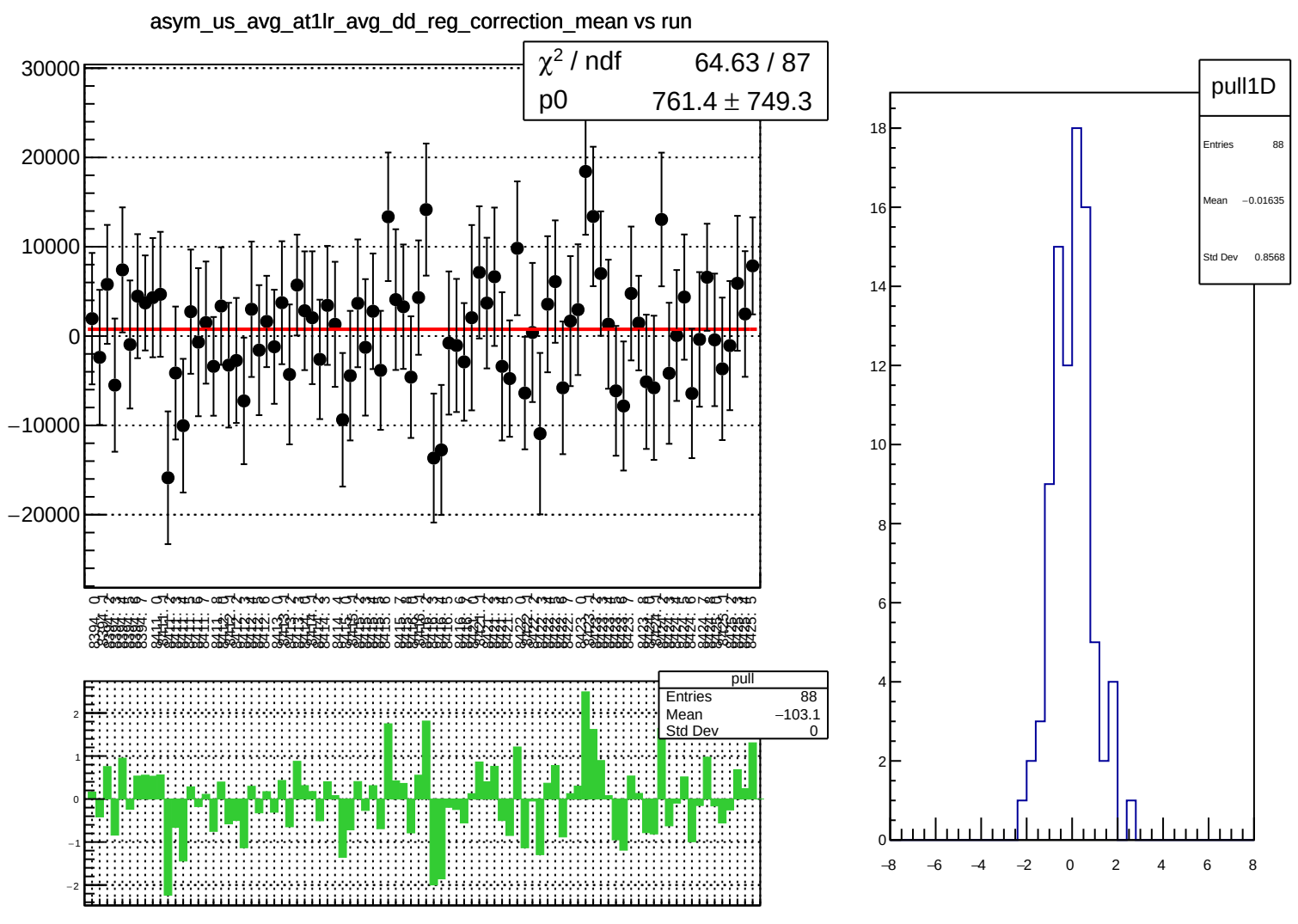

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100 / 87
p0 −7.359e−13 ± 2.28e−13
20
10
0
−10
−20
pull
Entries 88
Mean 32.74
Std Dev 23.27
4
3
2
1
0
−1
−2

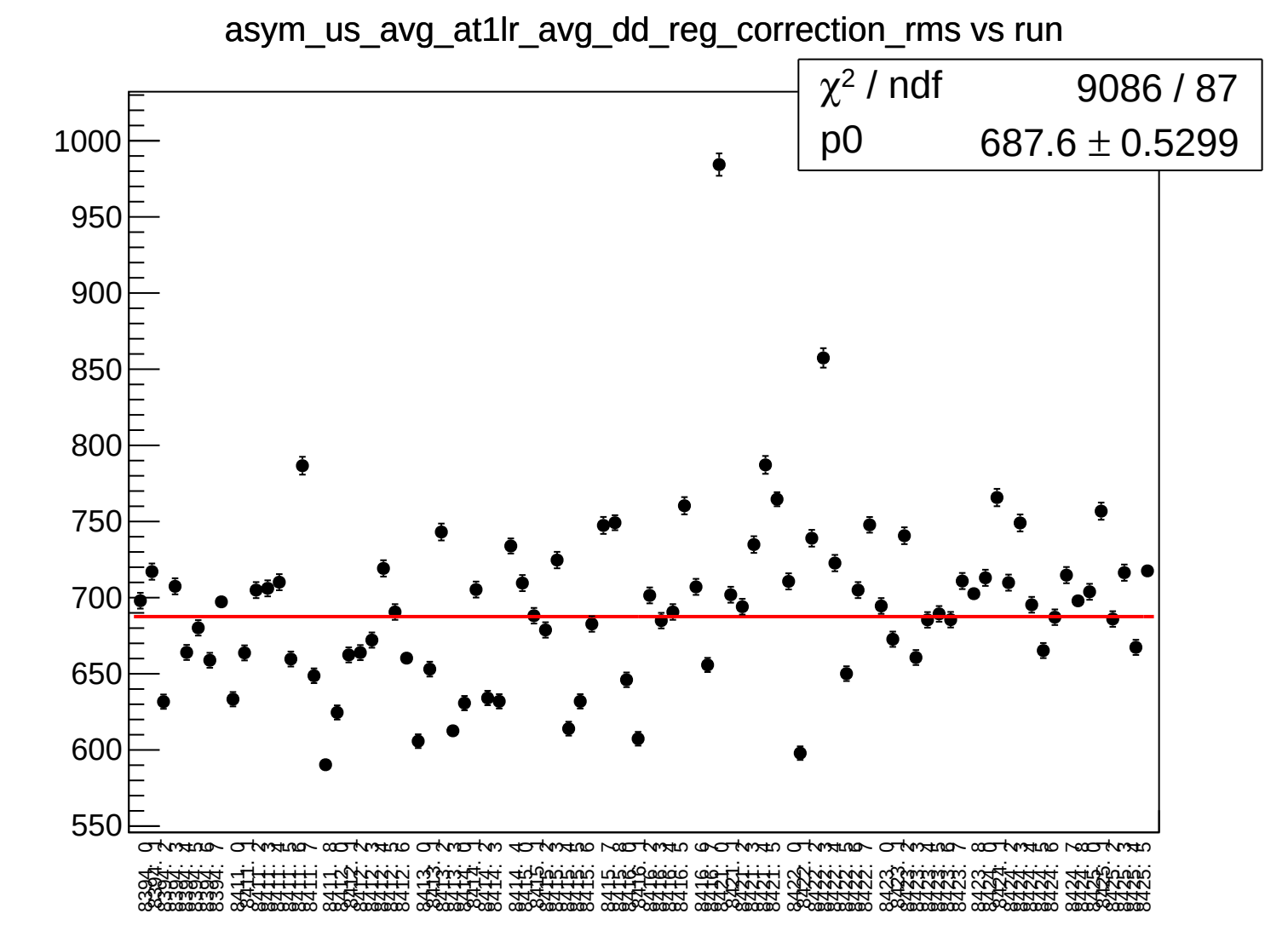

pull1D
Entries 88
Mean 0.09397
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

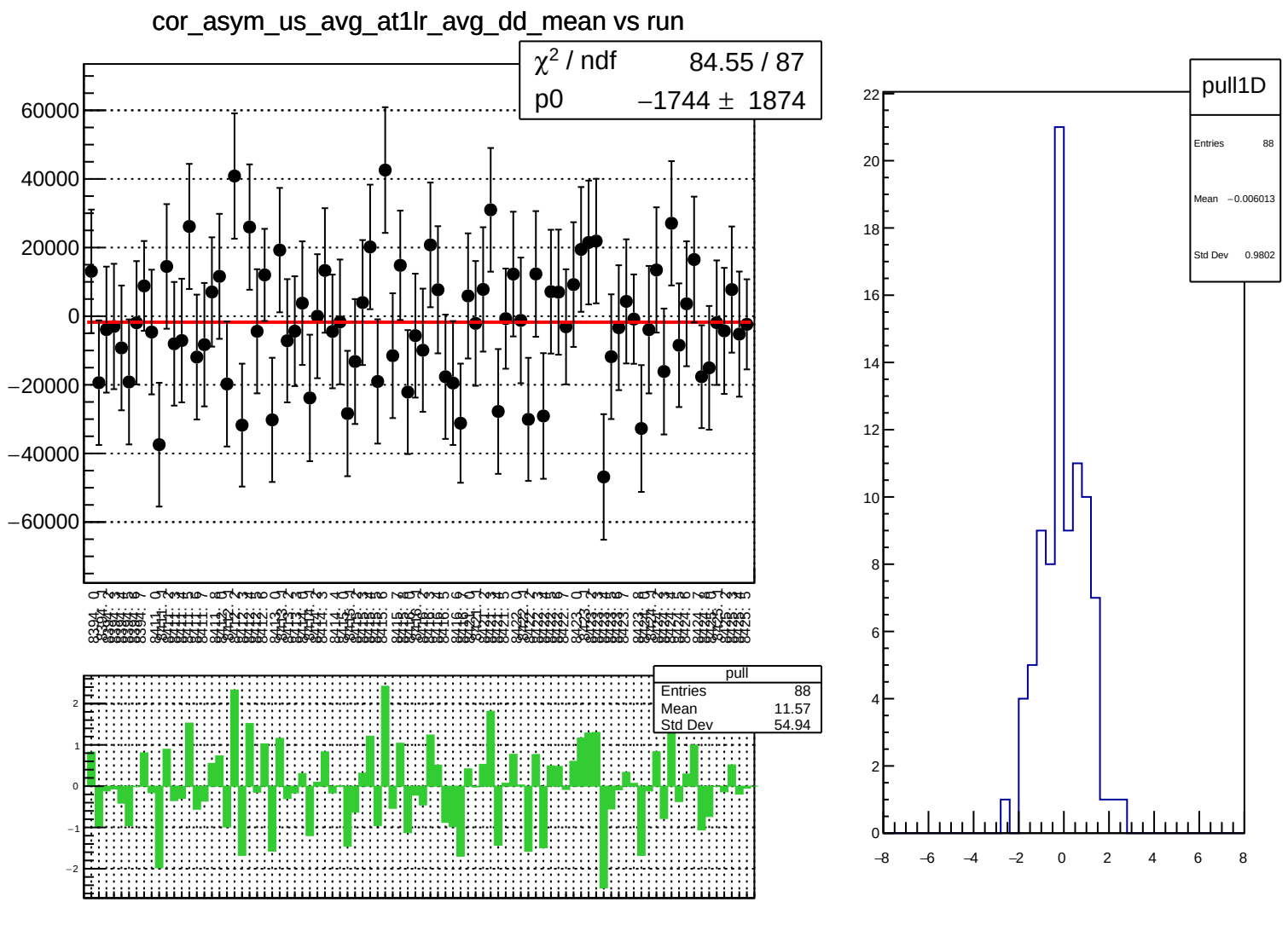

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.109e+05 / 87
p0 1.598e−10 ± 1.612e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

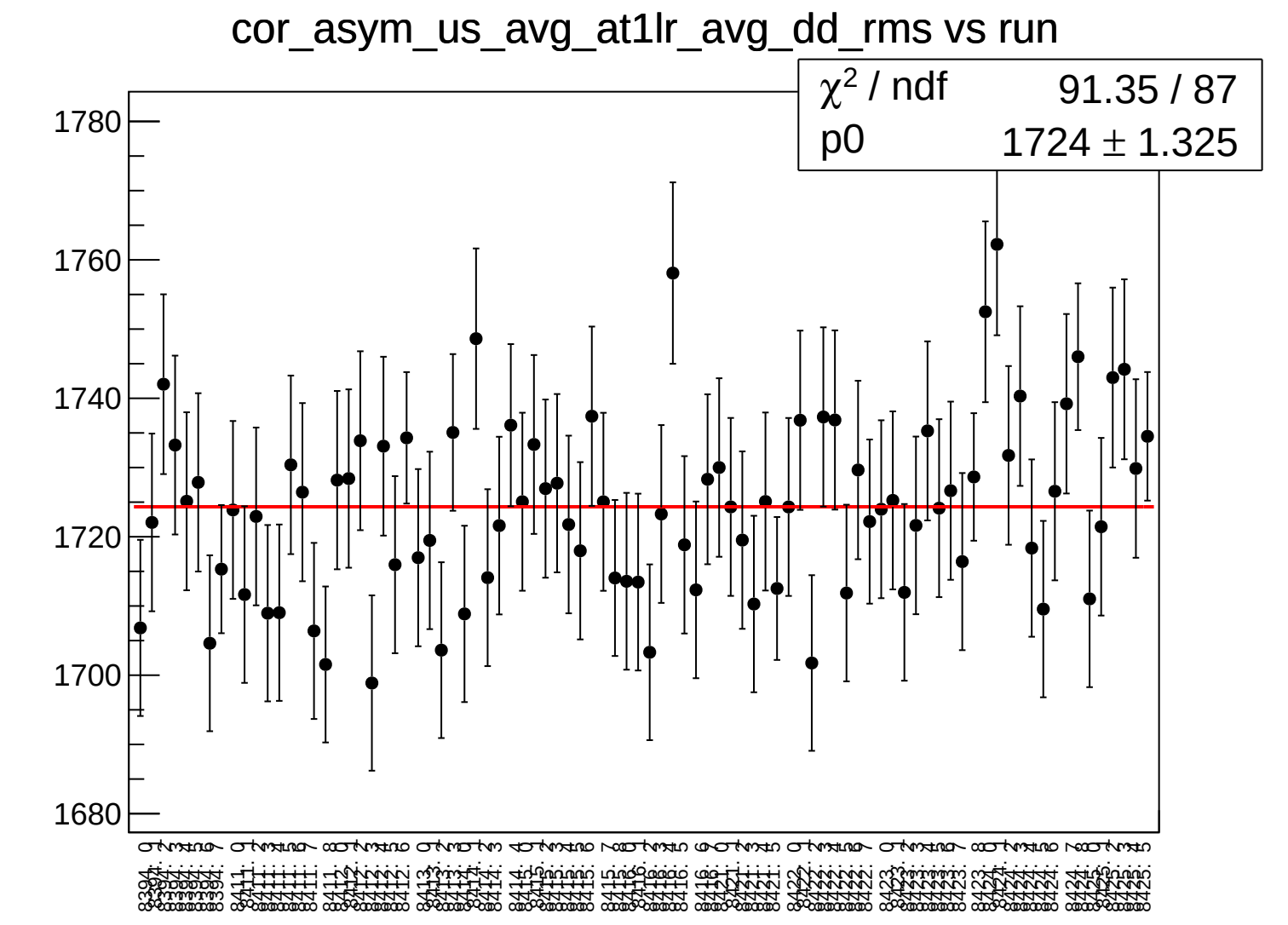

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 84.55 / 87
p0 −1744 ± 1874
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 11.56
Std Dev 54.93
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.006011
Std Dev 0.9802
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

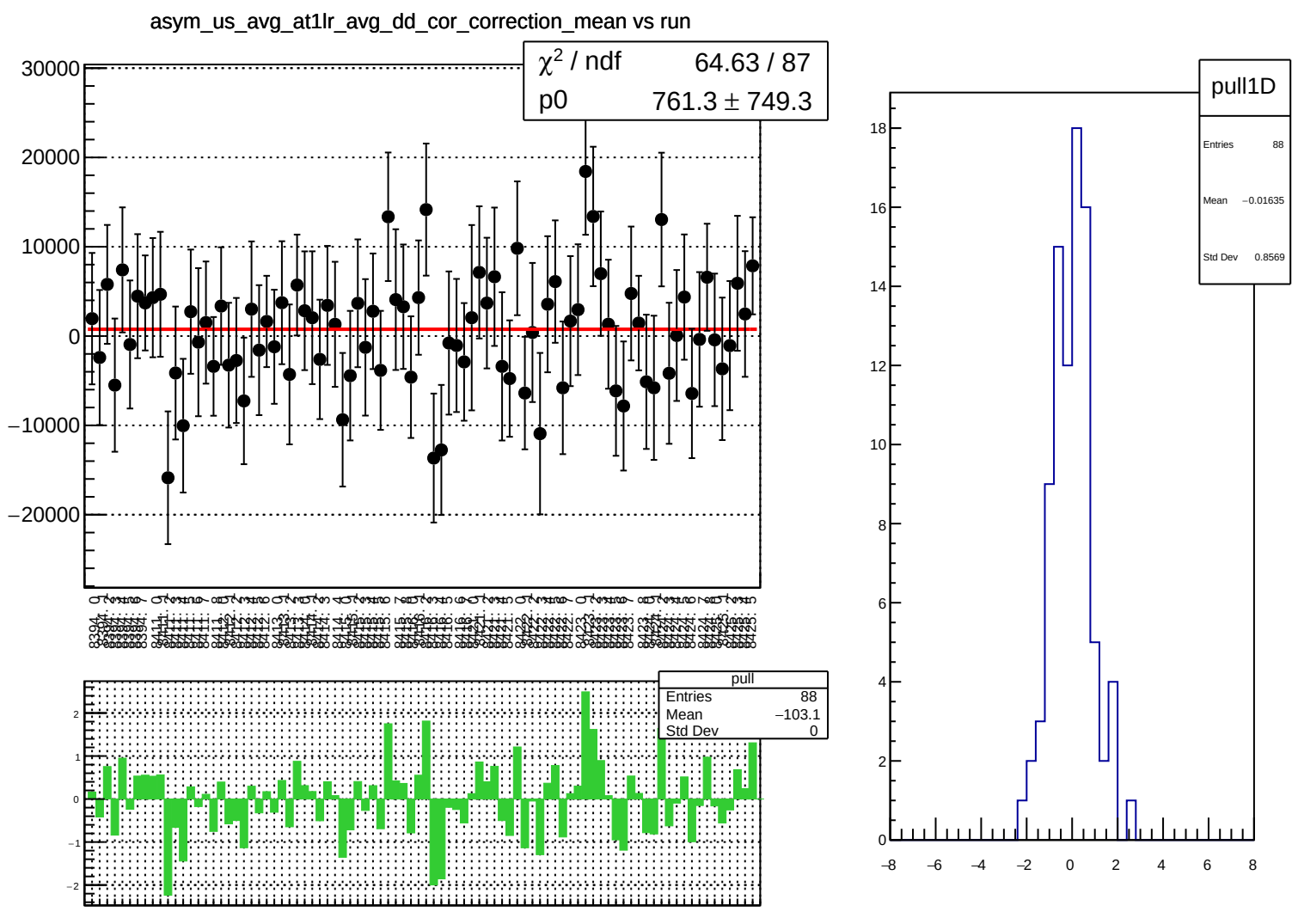

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 91.35 / 87
p0 1724 ± 1.325
1780
1760
1740
1720
1700
1680

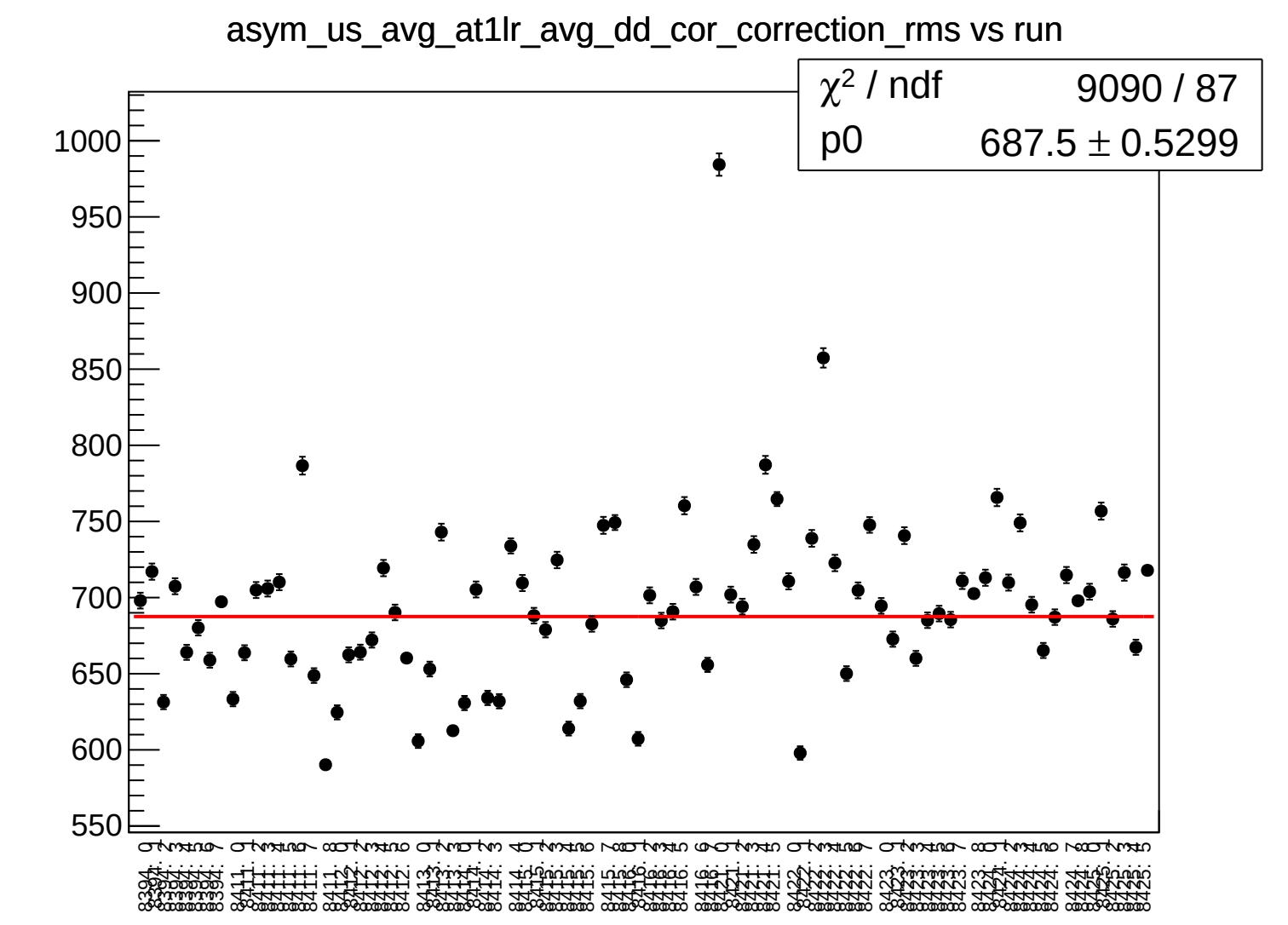

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 64.63 / 87
p0 761.4 ± 749.3
30000
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −103.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01635
Std Dev 0.8568
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

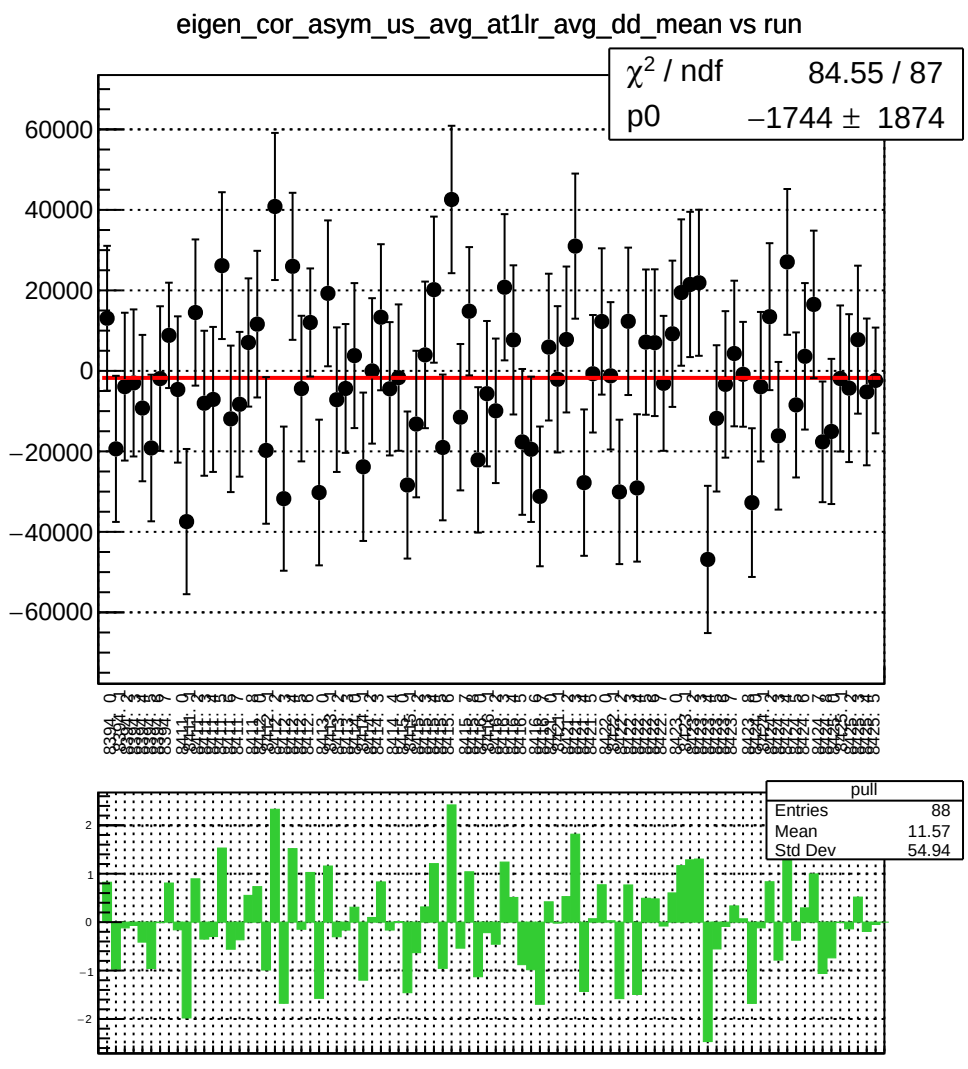

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ^2 / ndf 9086 / 87
p0 687.6 ± 0.5299
1000
950
900
850
800
750
700
650
600
550

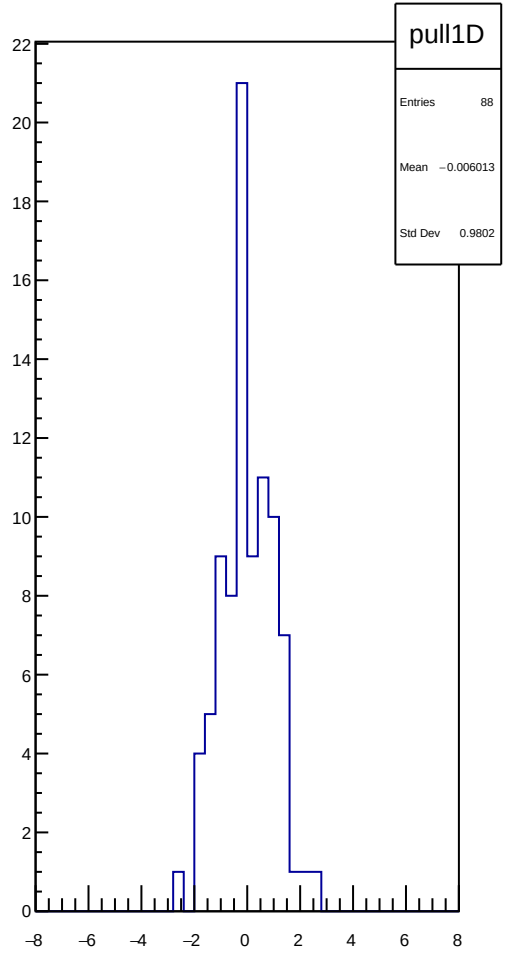

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 84.55 / 87
p0 −1744 ± 1874
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 11.57
Std Dev 54.94
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.006013
Std Dev 0.9802
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

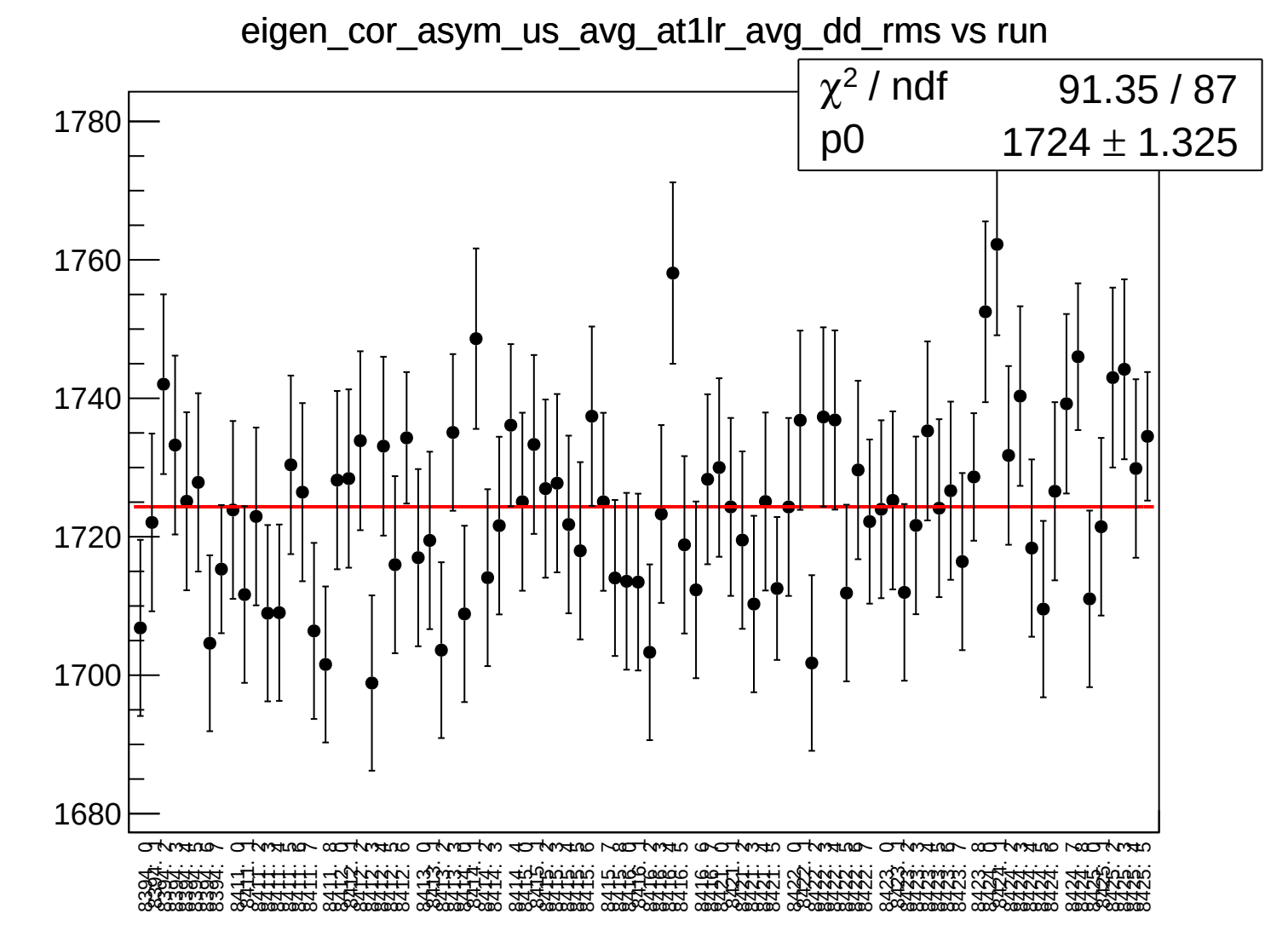

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 91.35 / 87
p0 1724 ± 1.325
1780
1760
1740
1720
1700
1680

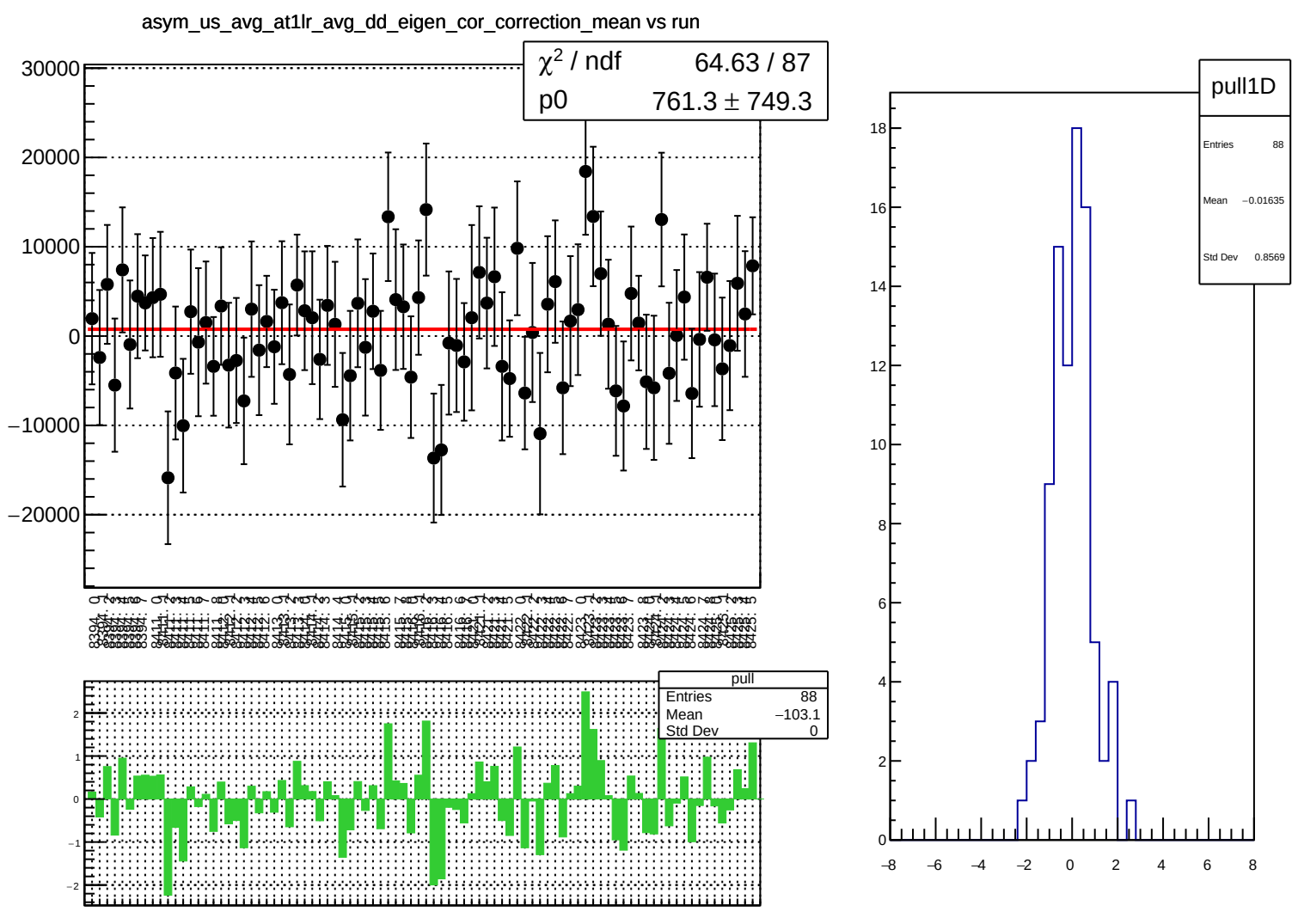

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 64.63 / 87
p0 761.3 ± 749.3
30000
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −103.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01635
Std Dev 0.8569
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

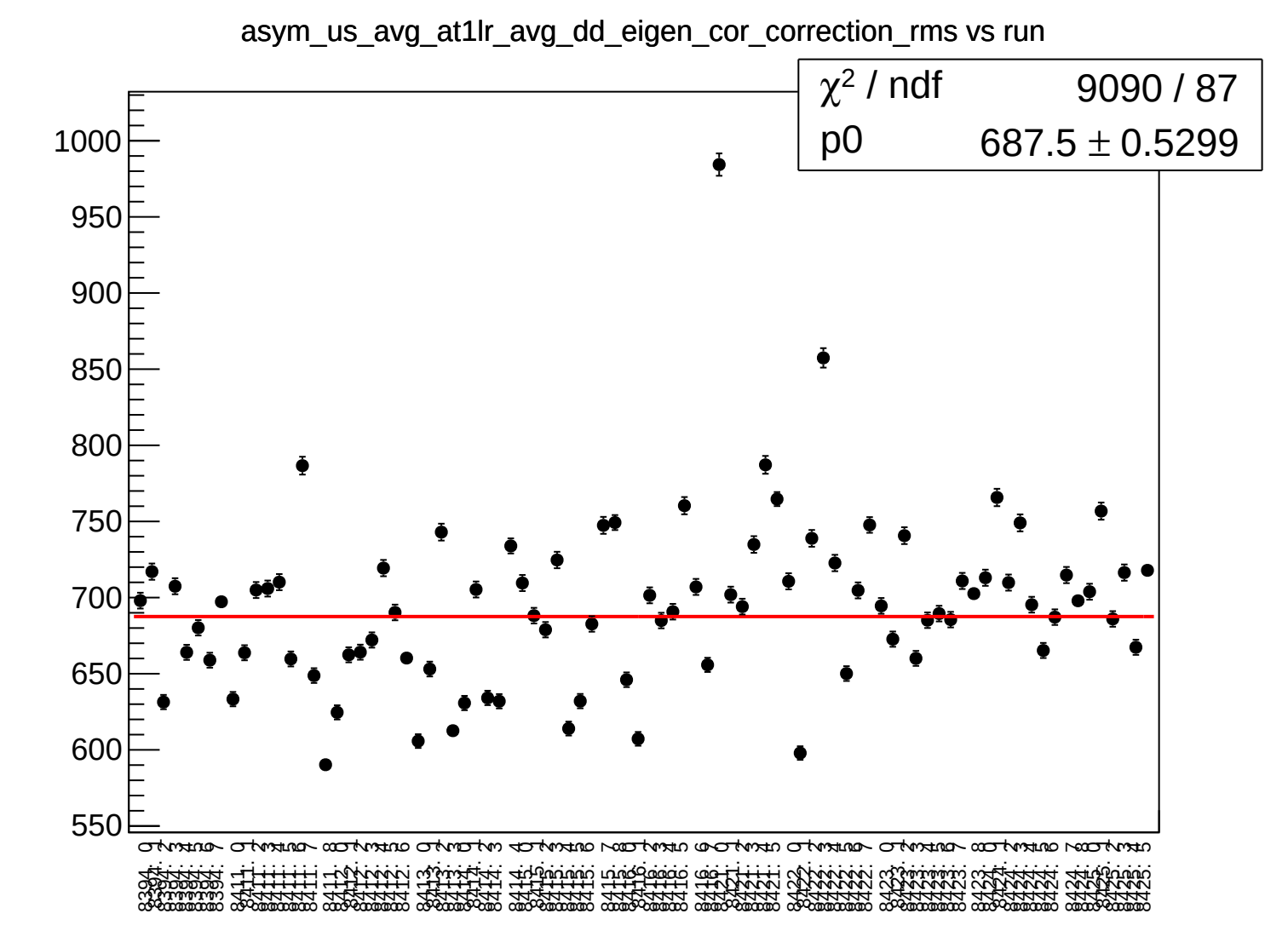

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ^2 / ndf 9090 / 87
p0 687.5 ± 0.5299
1000
950
900
850
800
750
700
650
600
550

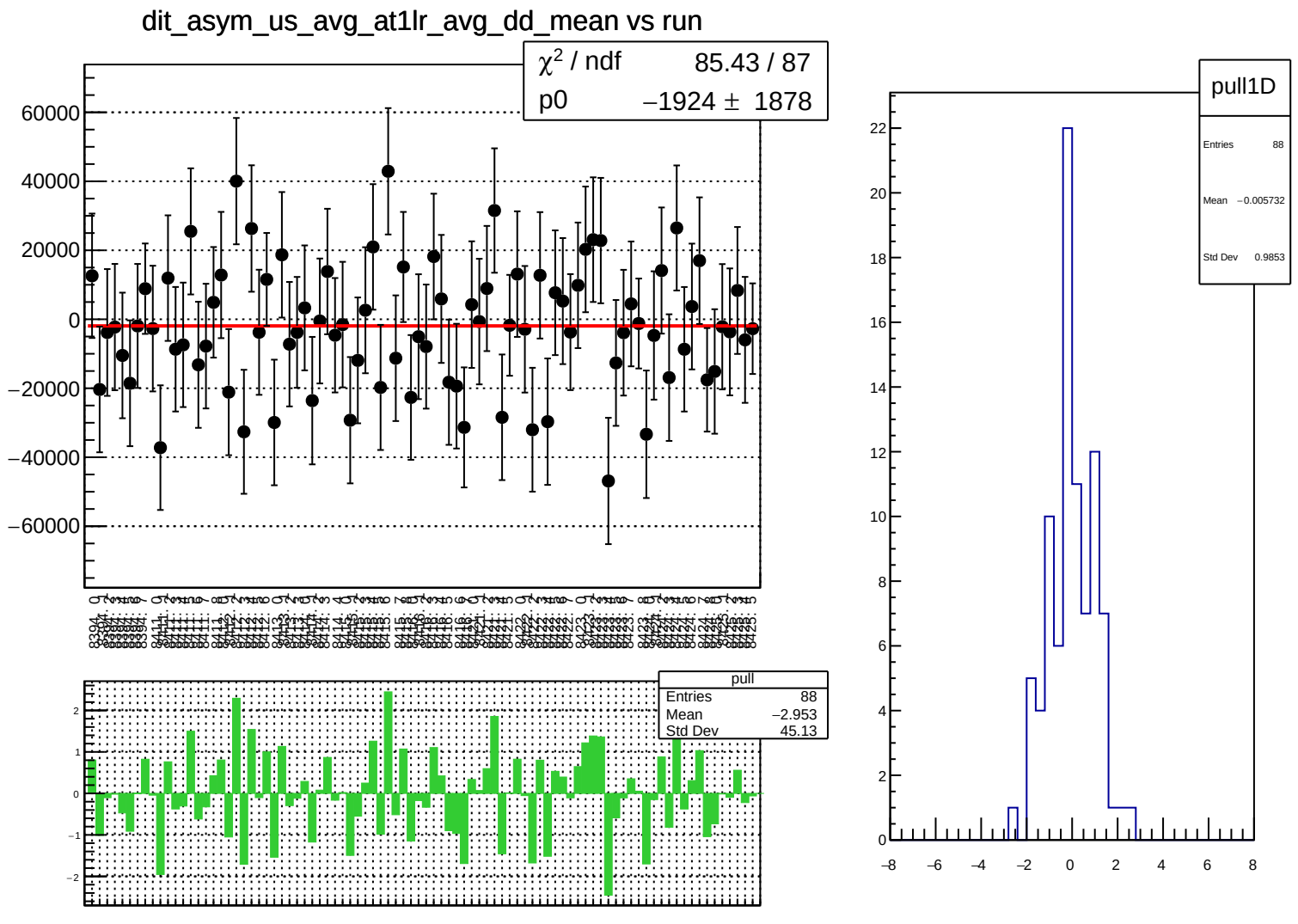

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 84.55 / 87
p0 −1744 ± 1874
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 11.57
Std Dev 54.94
2
1
0
−1
−2

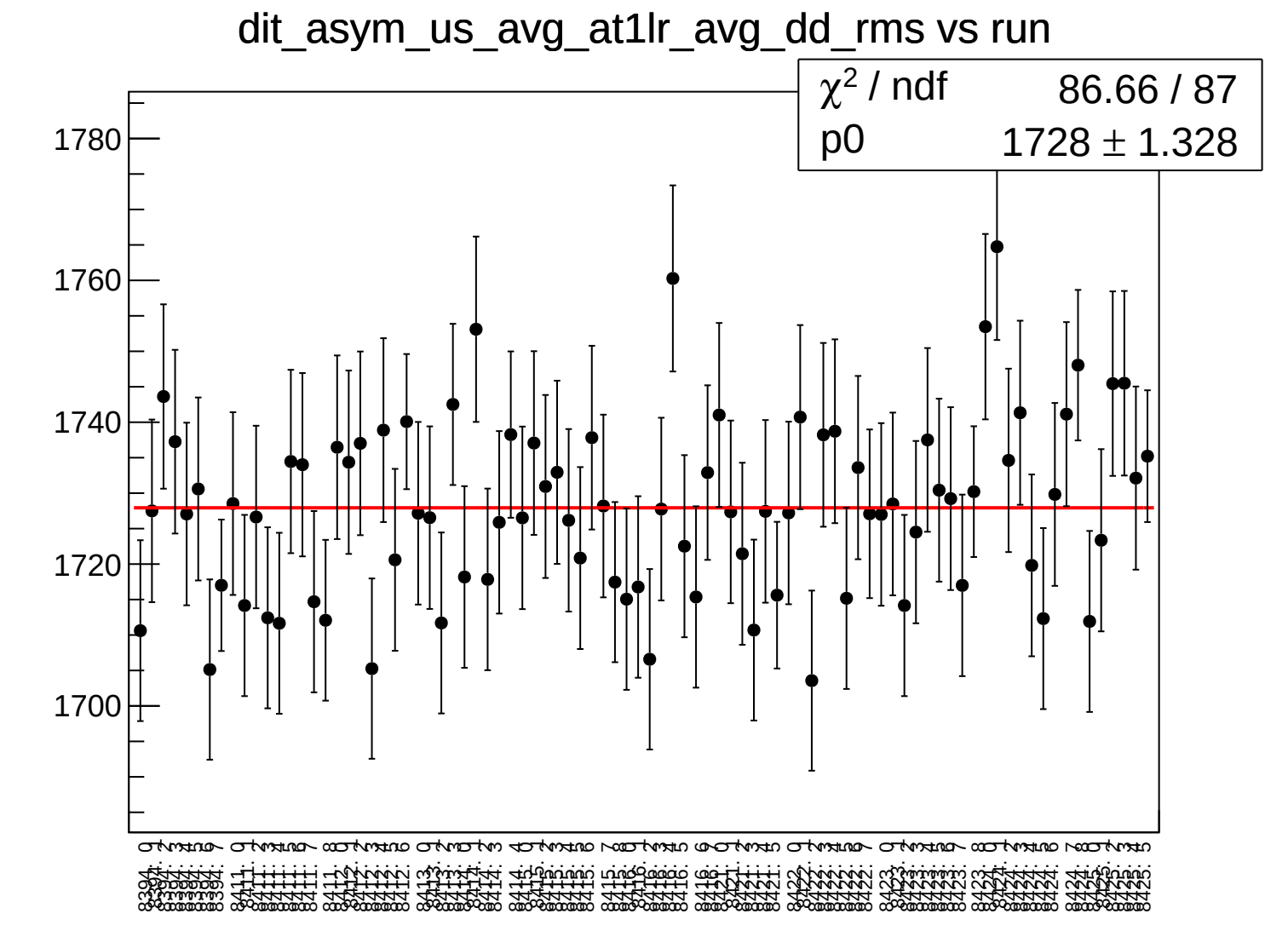

pull1D
Entries 88
Mean −0.006013
Std Dev 0.9802
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

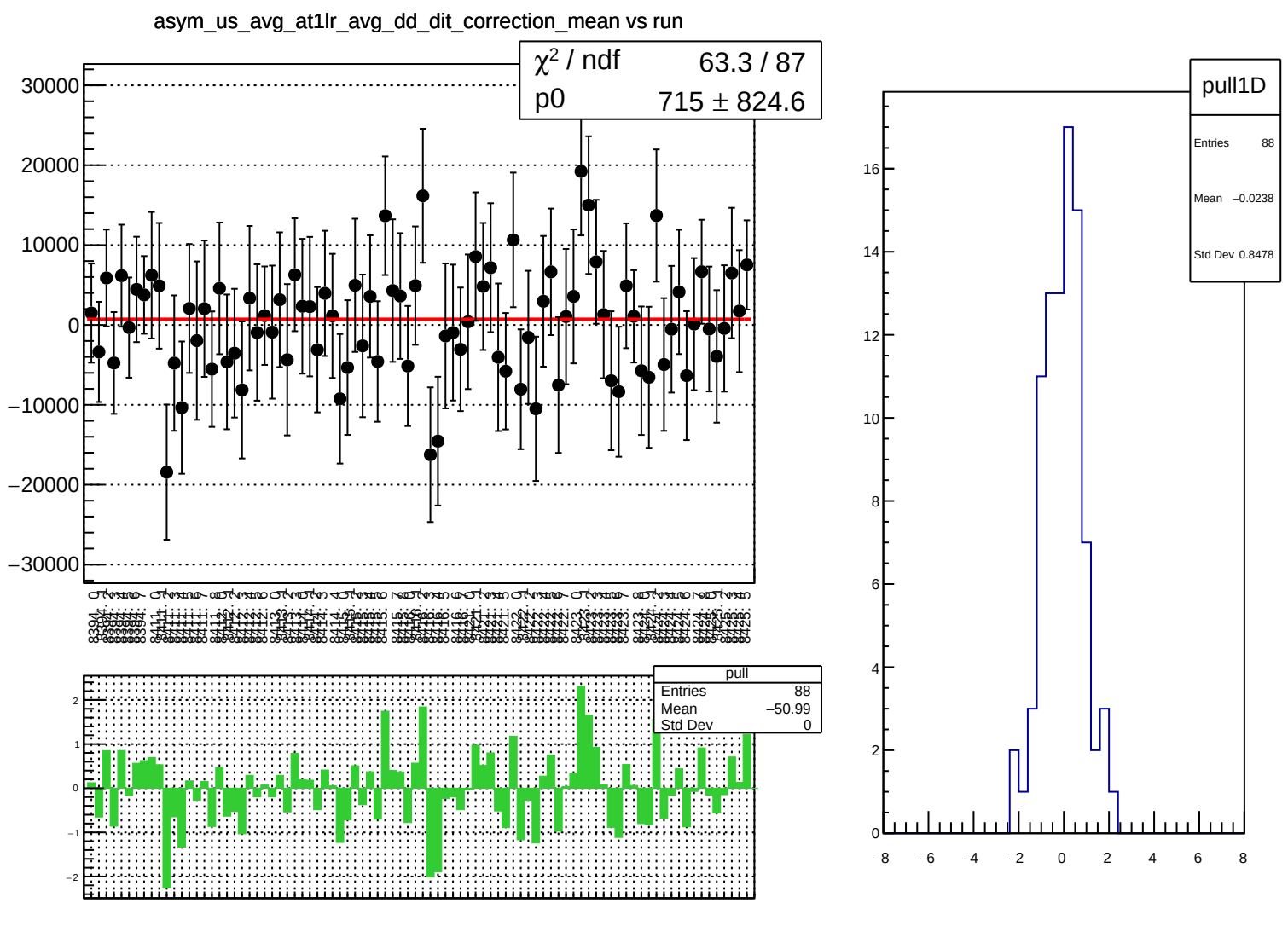

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 91.35 / 87
p0 1724 ± 1.325
1780
1760
1740
1720
1700
1680

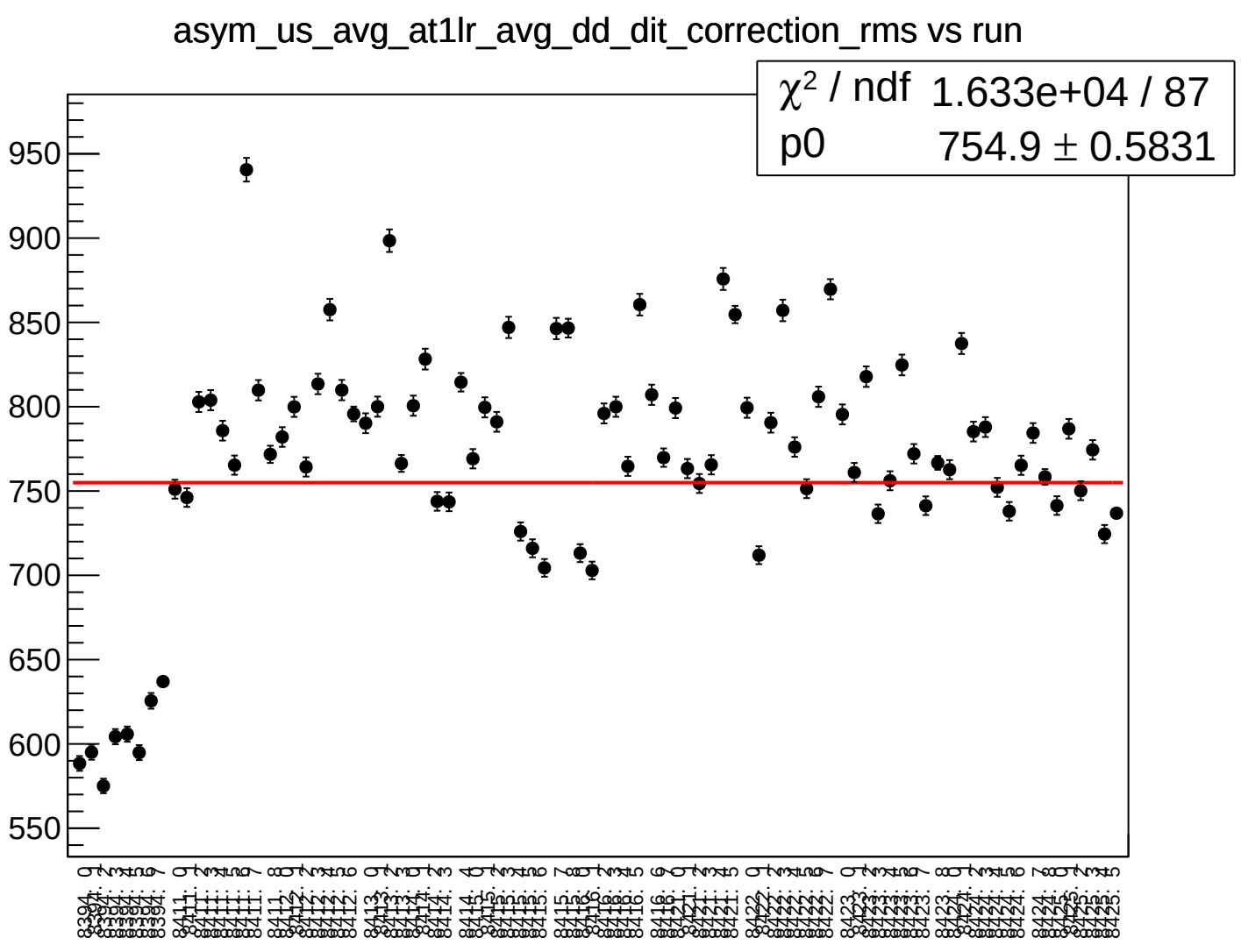

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 64.63 / 87
p0 761.3 ± 749.3
30000
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −103.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01635
Std Dev 0.8569
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

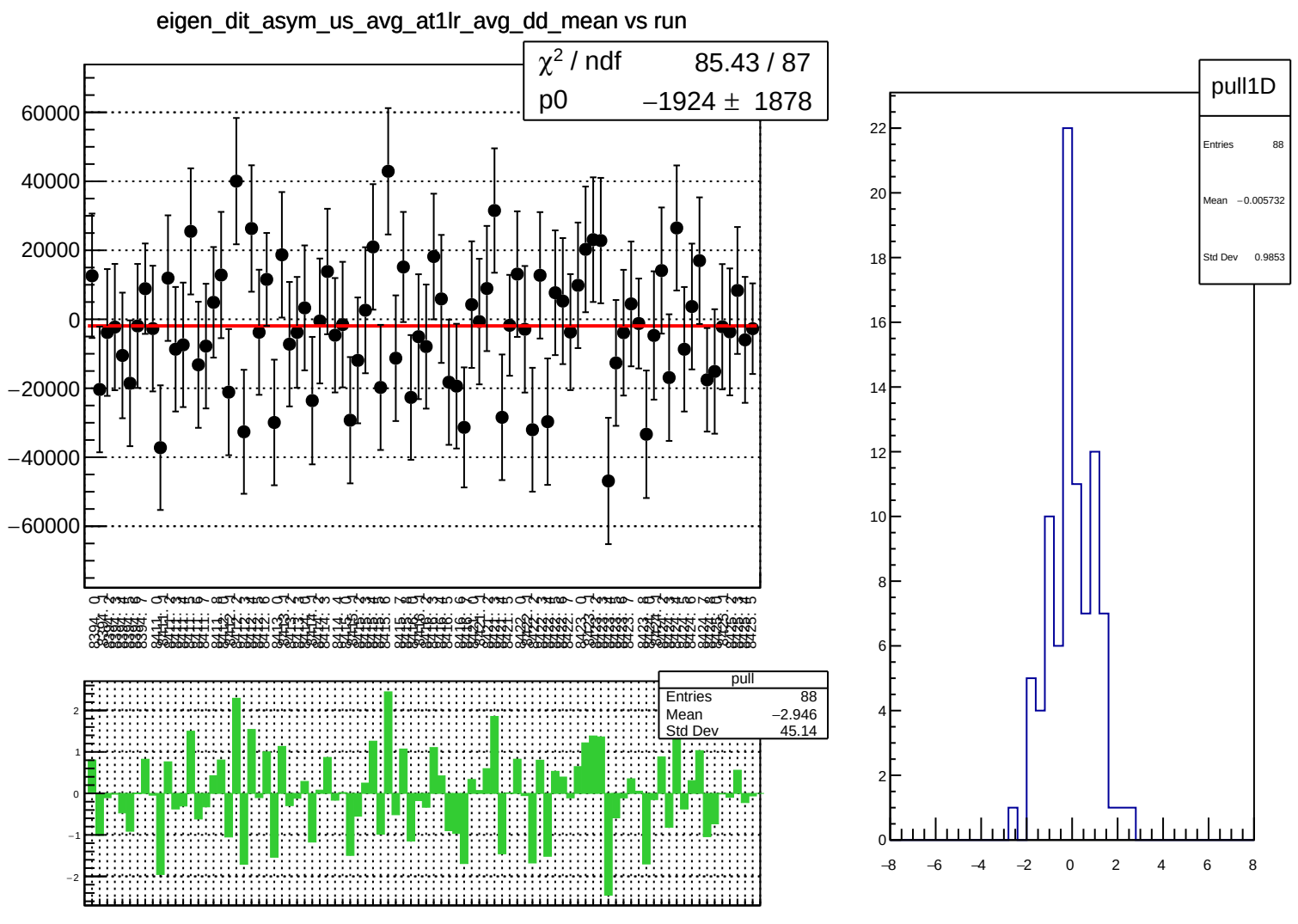

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 9090 / 87
p0 687.5 ± 0.5299
1000
950
900
850
800
750
700
650
600
550

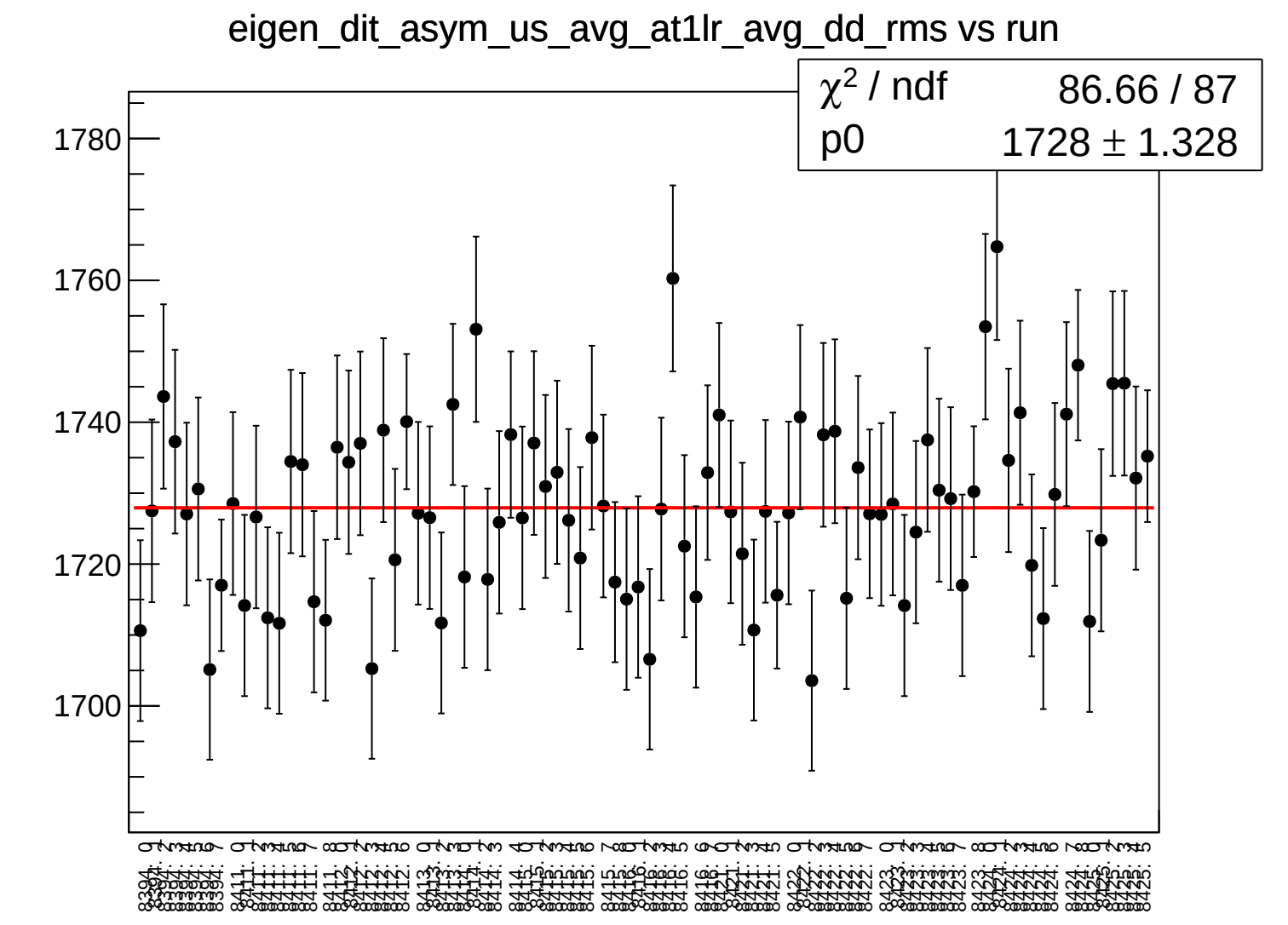

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 85.43 / 87
p0 −1924 ± 1878
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −2.953
Std Dev 45.13
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.005732
Std Dev 0.9853
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

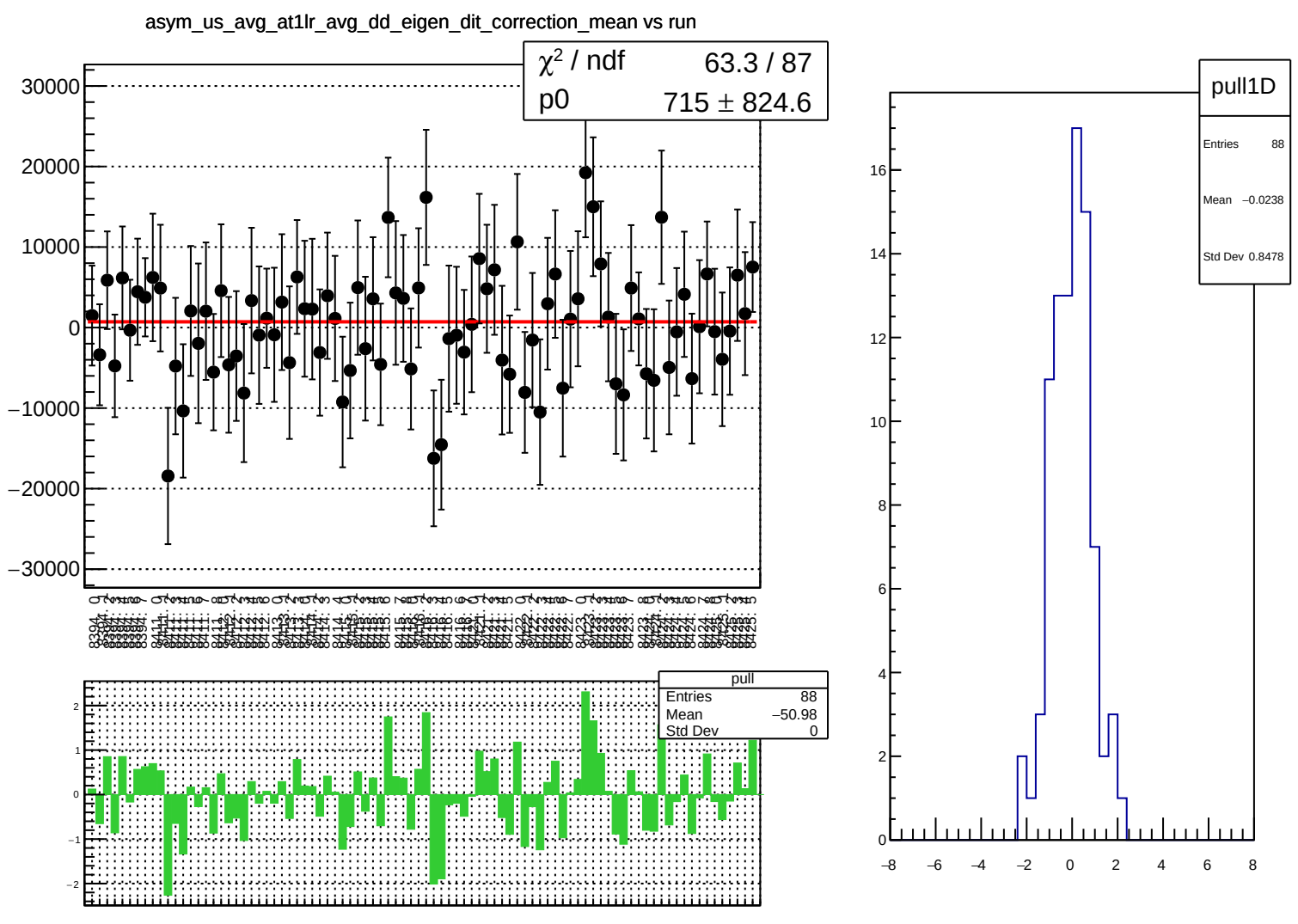

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 86.66 / 87
p0 1728 ± 1.328
1780
1760
1740
1720
1700

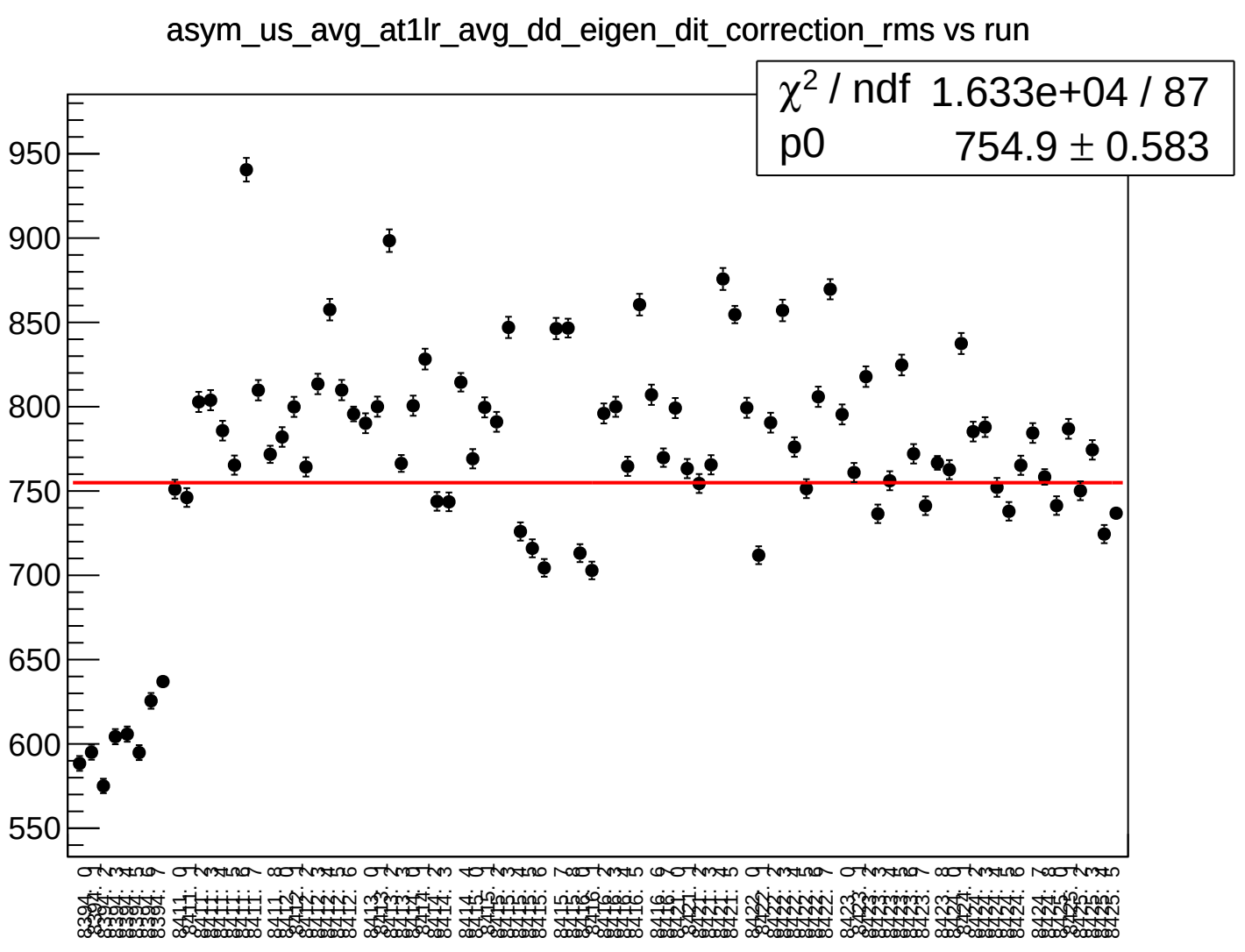

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 63.3 / 87
p0 715 ± 824.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −50.99
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.0238
Std Dev 0.8478
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

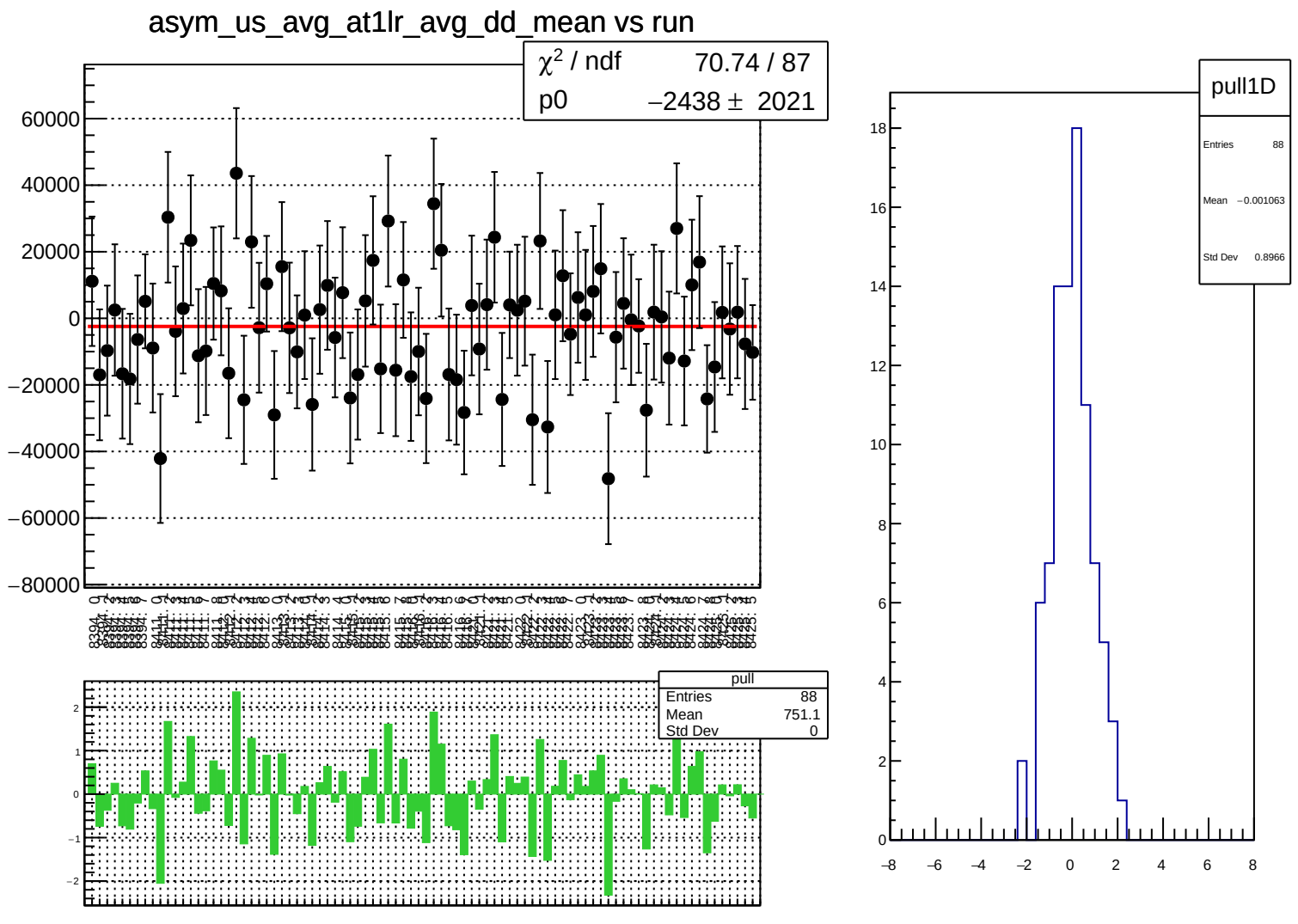

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.633e+04 / 87
p0 754.9 ± 0.5831
950
900
850
800
750
700
650
600
550

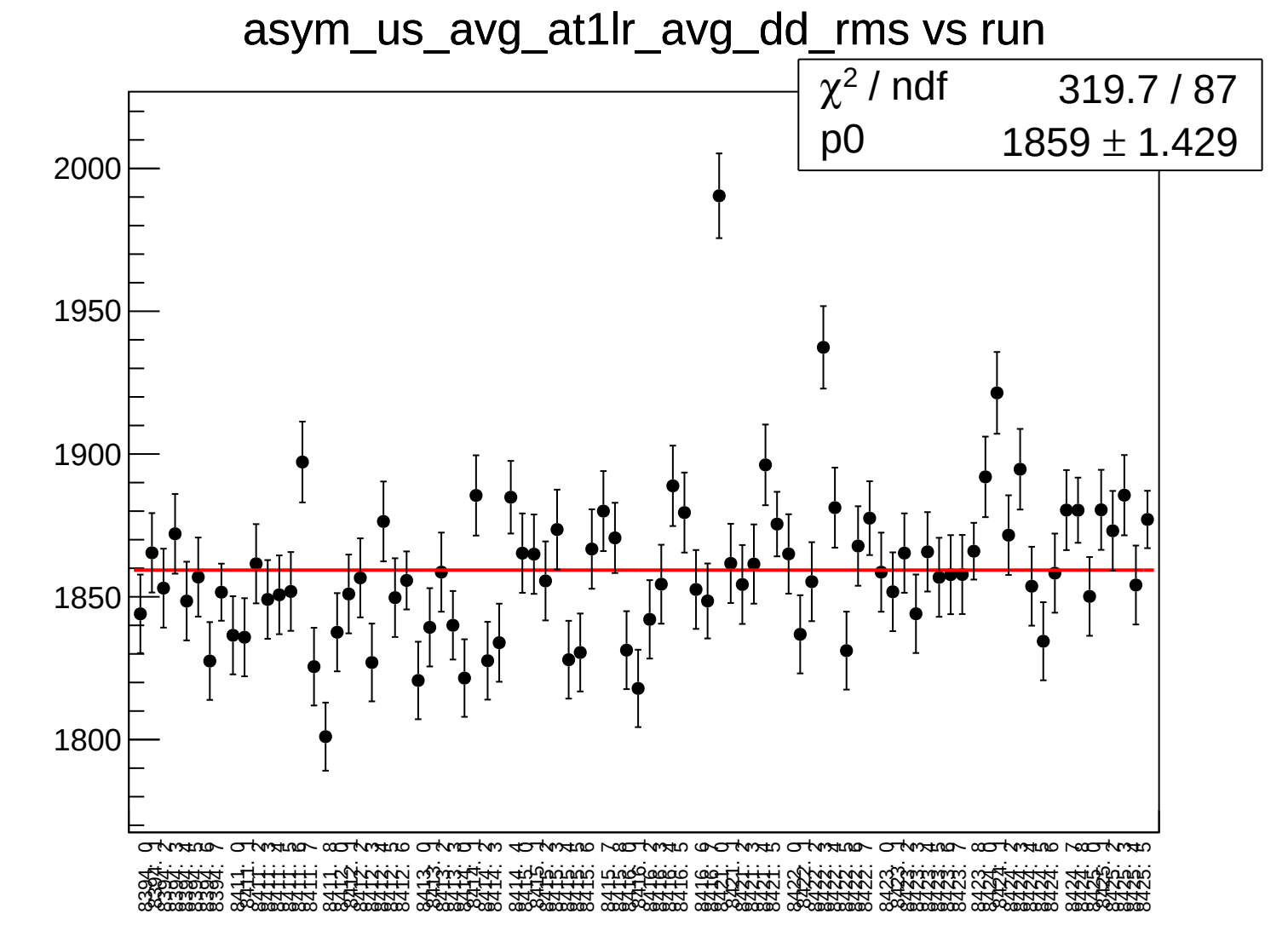

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 85.43 / 87
p0 −1924 ± 1878
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −2.946
Std Dev 45.14
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.005732
Std Dev 0.9853
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

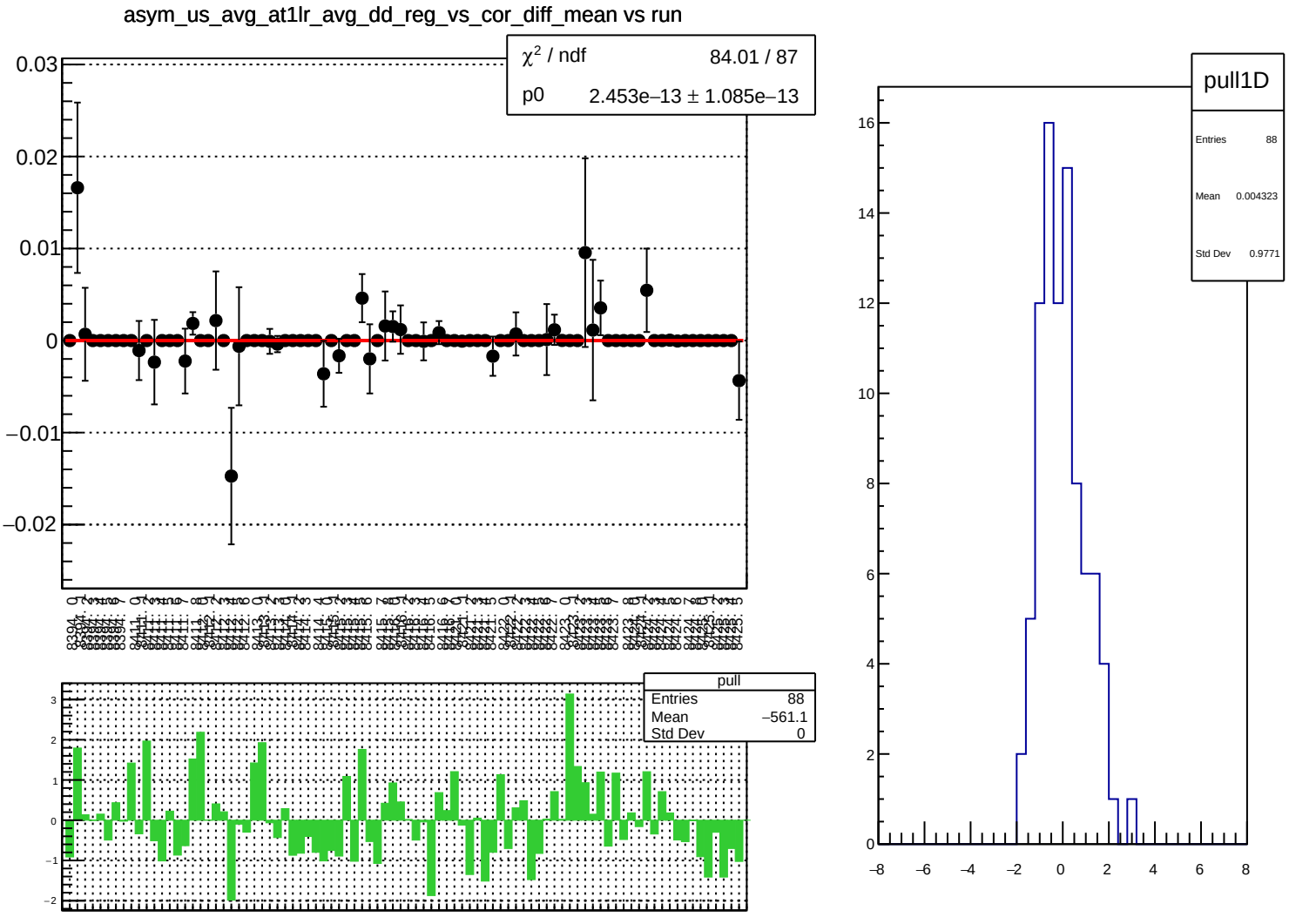

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 86.66 / 87
p0 1728 ± 1.328
1780
1760
1740
1720
1700

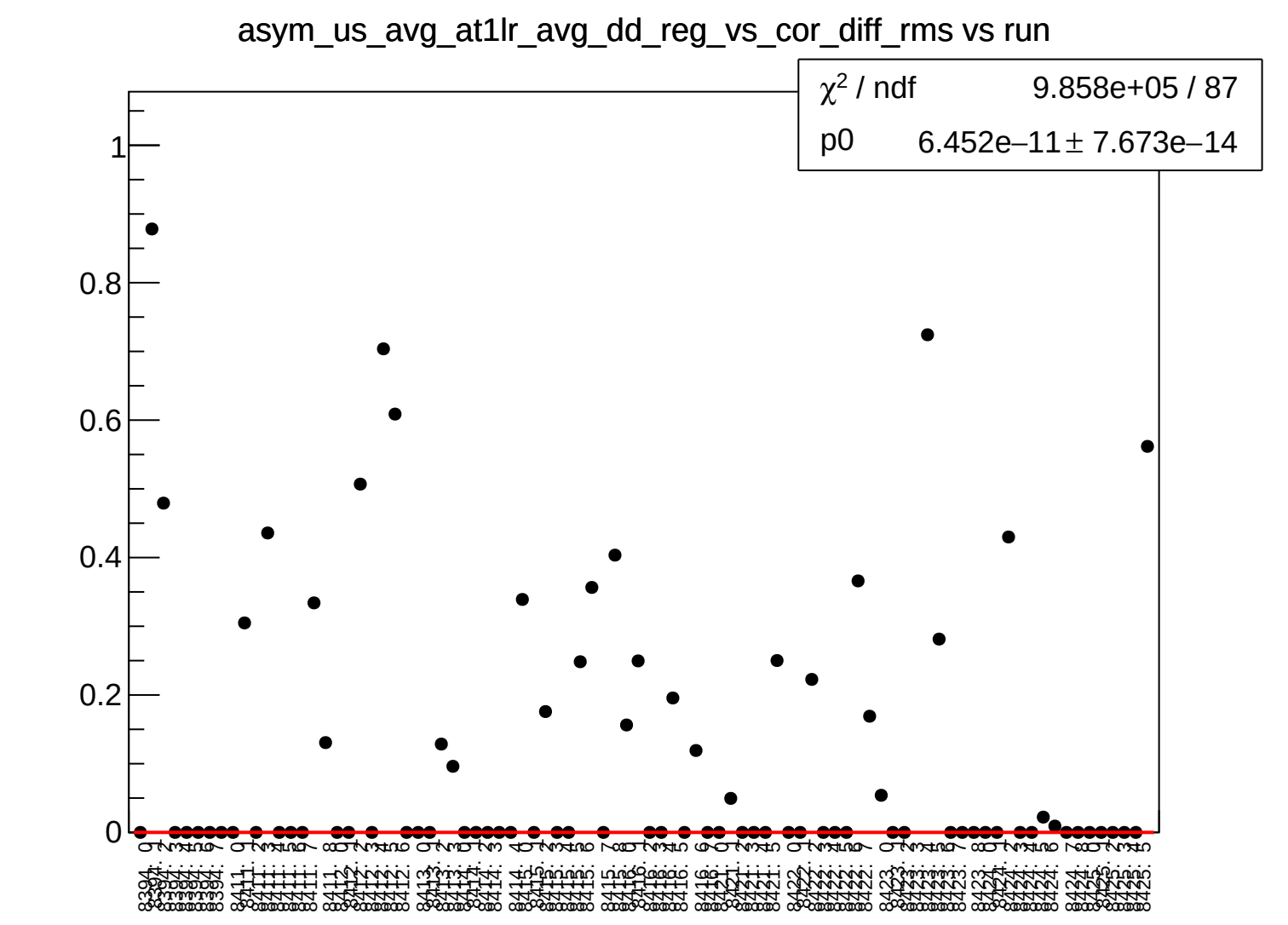

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 63.3 / 87
p0 715 ± 824.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −50.98
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.0238
Std Dev 0.8478
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

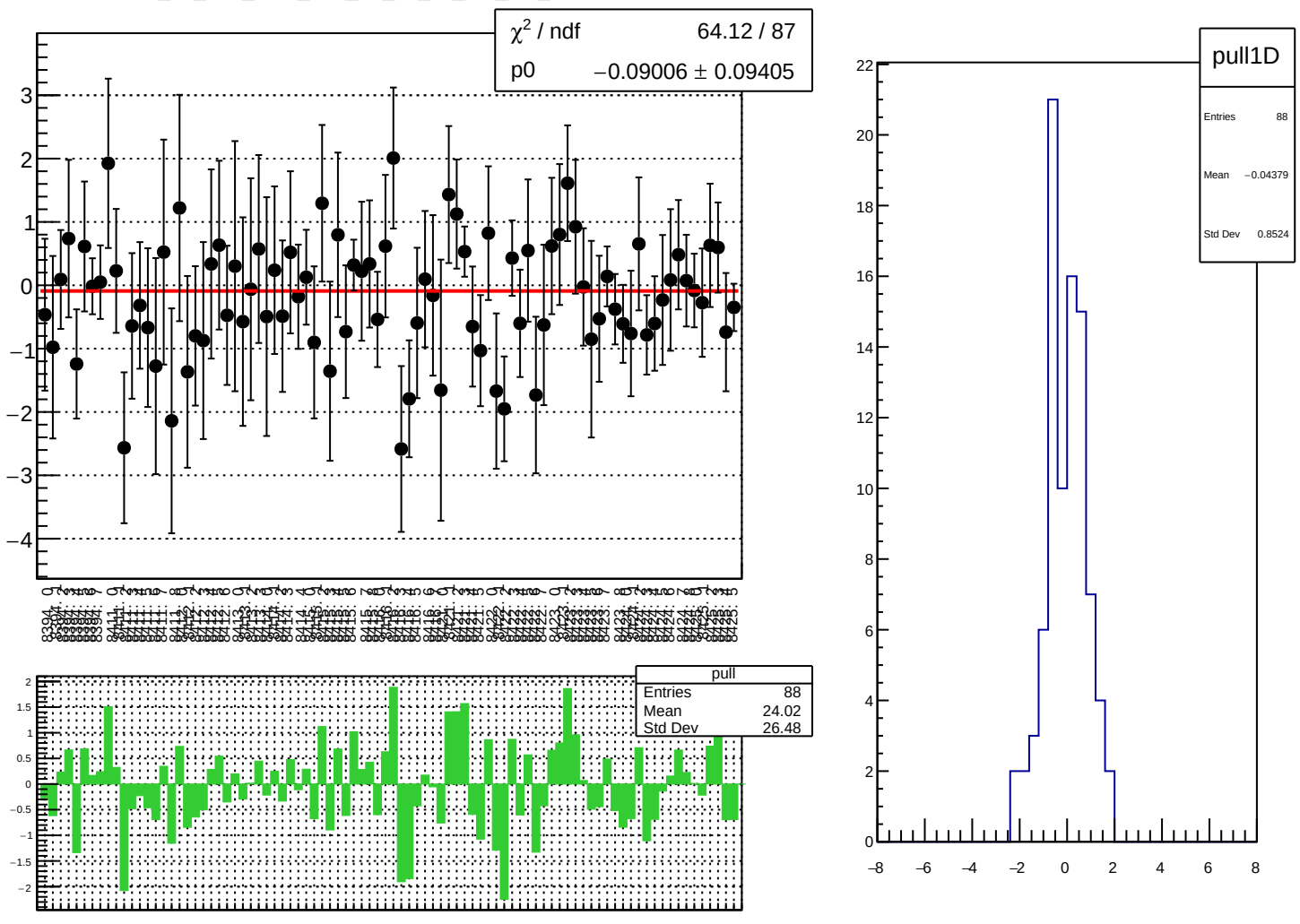

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.633e+04 / 87
p0 754.9 ± 0.583
950
900
850
800
750
700
650
600
550

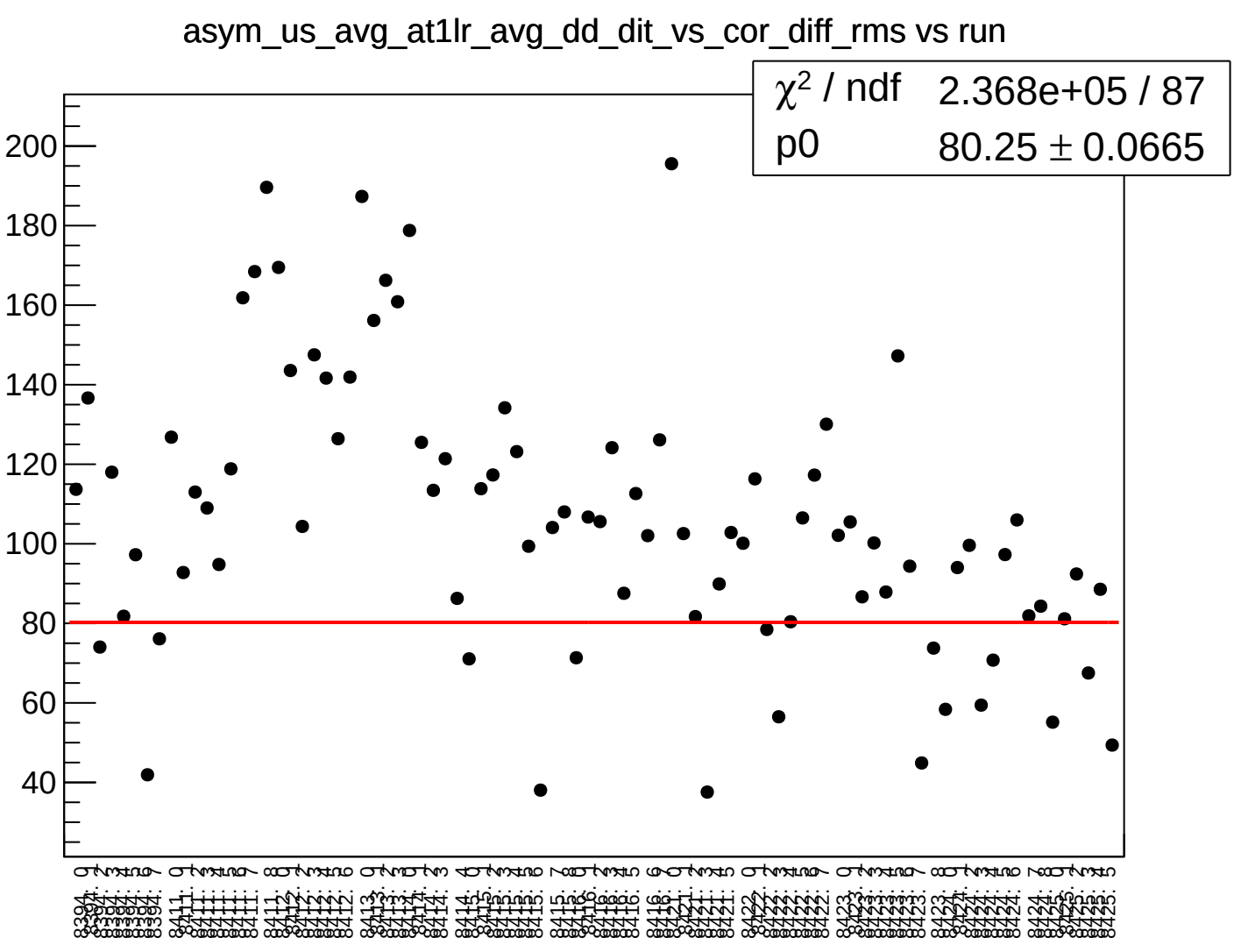

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 70.74 / 87
p0 −2438 ± 2021
pull
Entries 88
Mean 751.1
Std Dev 0
pull1D
Entries 88
Mean −0.001063
Std Dev 0.8966


asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 319.7 / 87
p0 1859 ± 1.429
2000
1950
1900
1850
1800

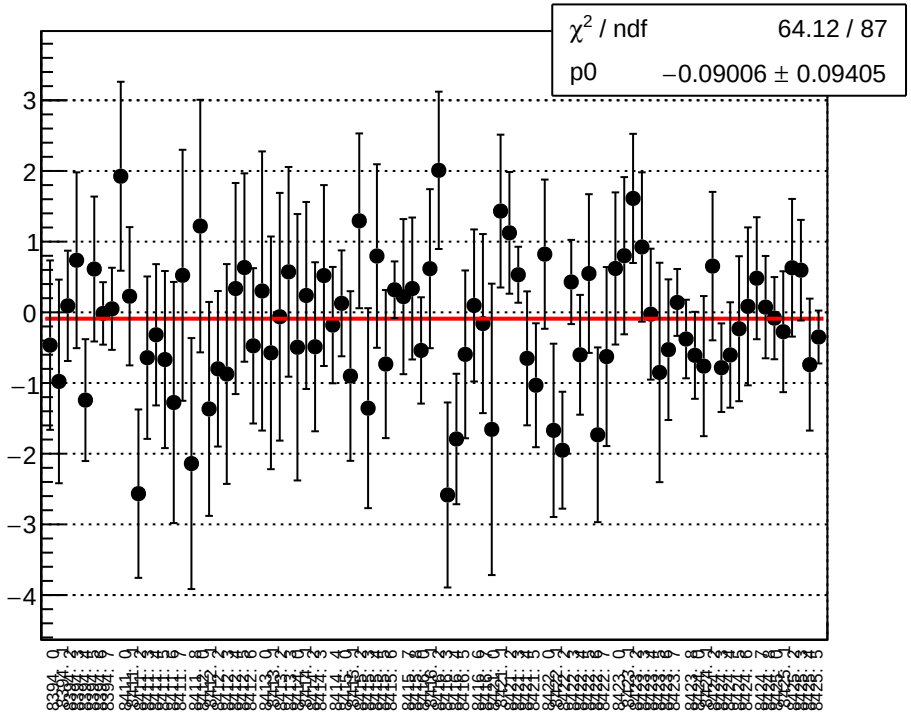

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.01 / 87
p0 2.453e−13 ± 1.085e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 88
Mean −561.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.004323
Std Dev 0.9771
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

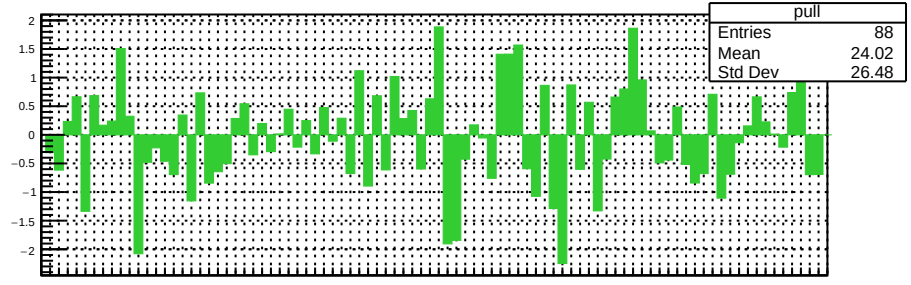

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.858e+05 / 87
p0 6.452e−11 ± 7.673e−14
1
0.8
0.6
0.4
0.2
0

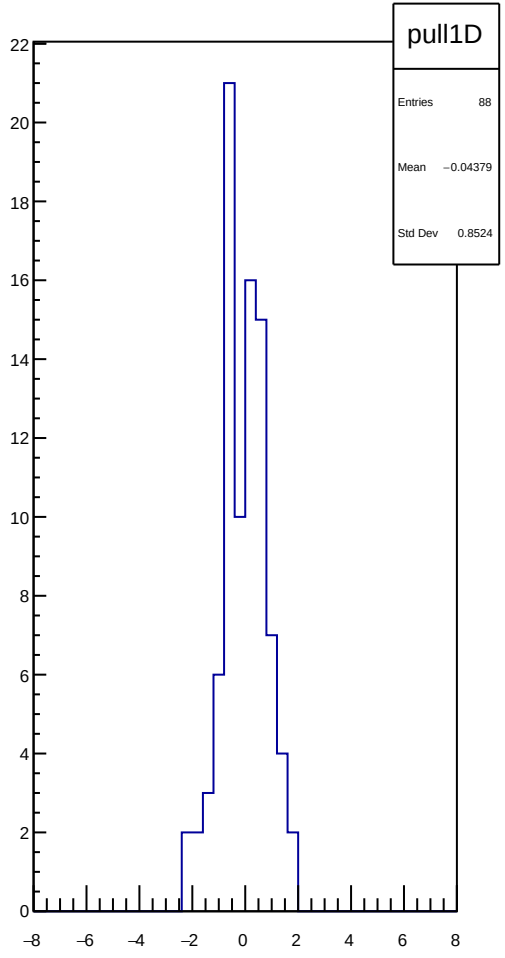

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 64.12 / 87
p0 −0.09006 ± 0.09405
pull
Entries 88
Mean 24.02
Std Dev 26.48
pull1D
Entries 88
Mean −0.04379
Std Dev 0.8524

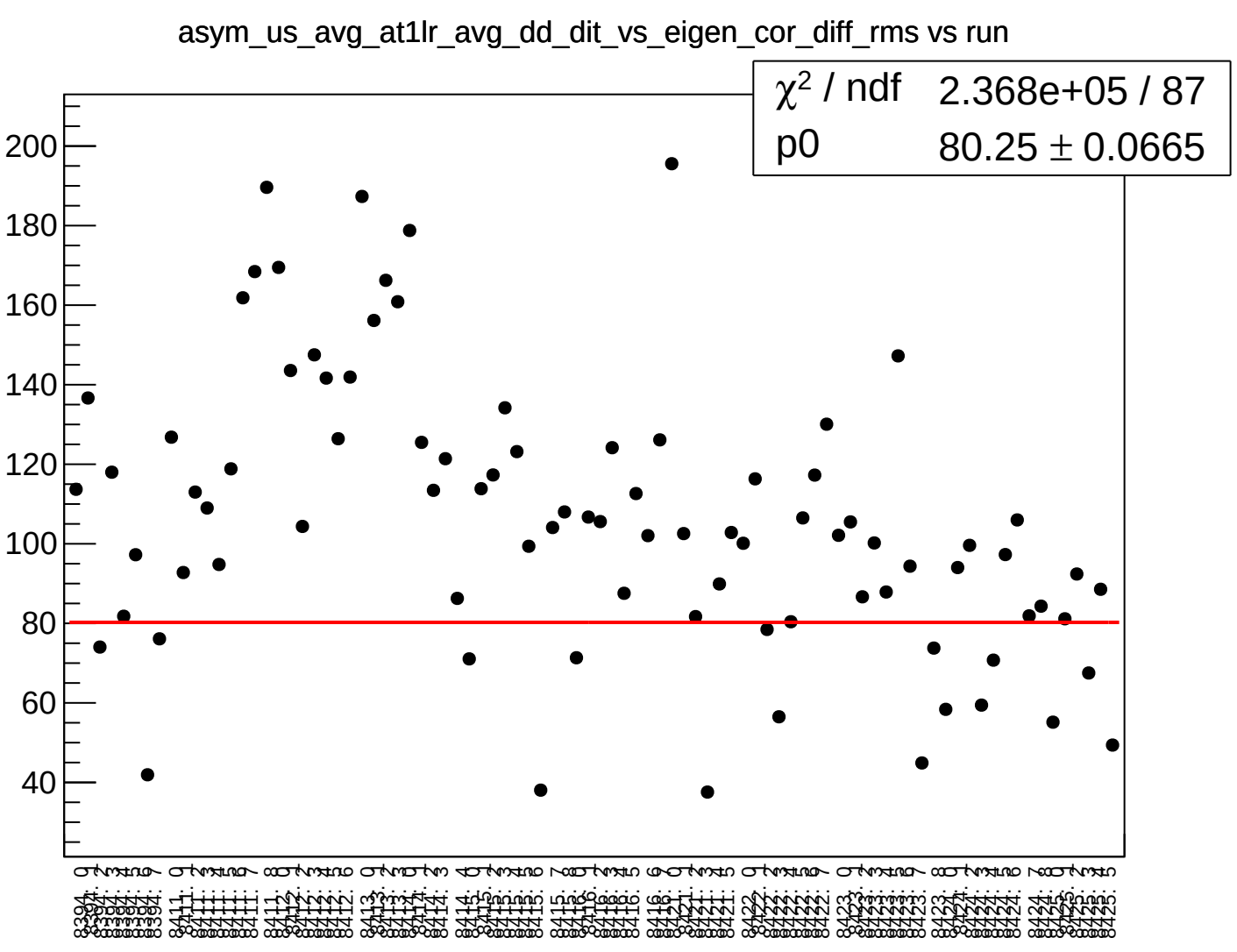

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.368e+05 / 87
p0 80.25 ± 0.0665
200
180
160
140
120
100
80
60
40

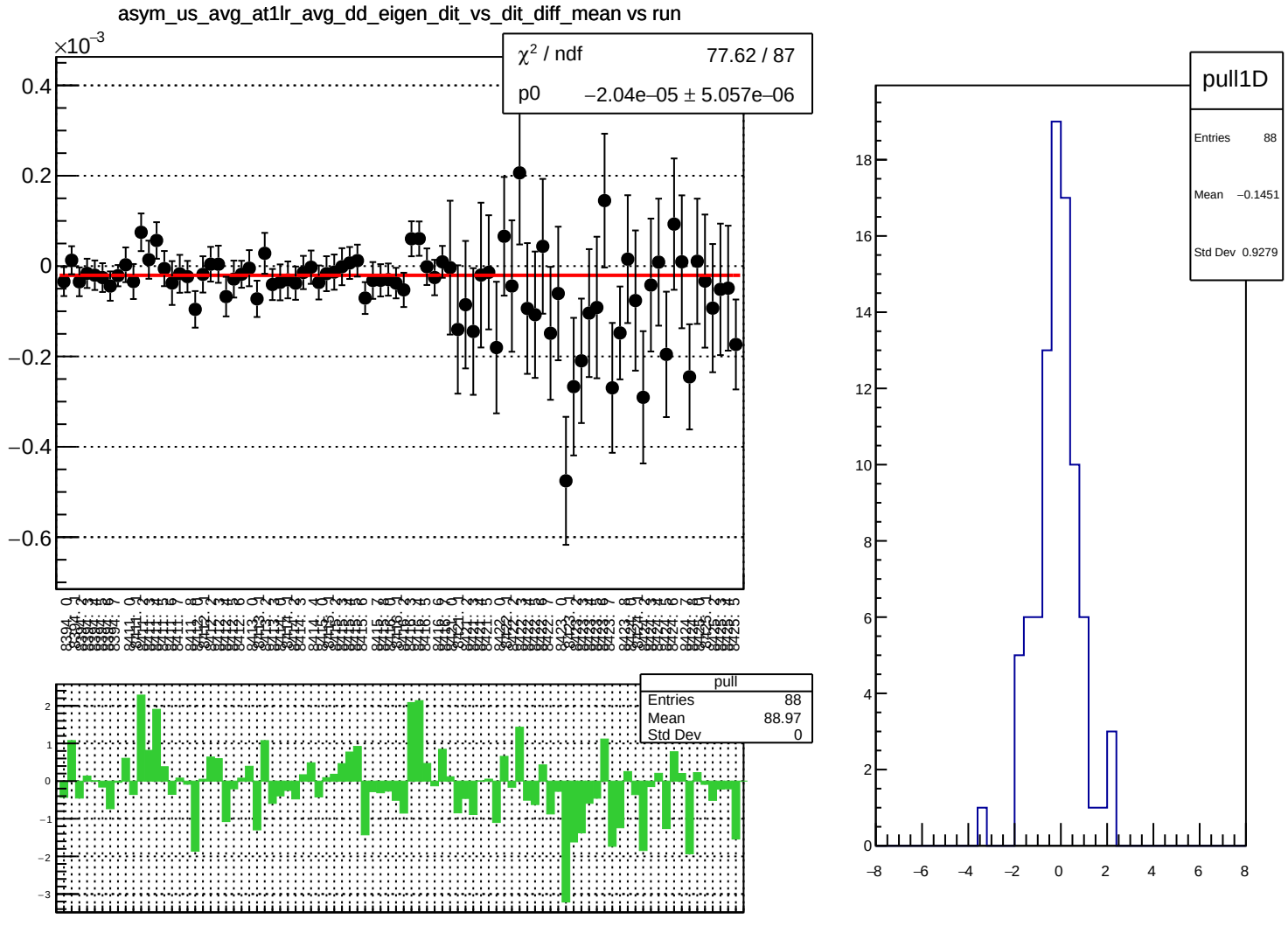
asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run

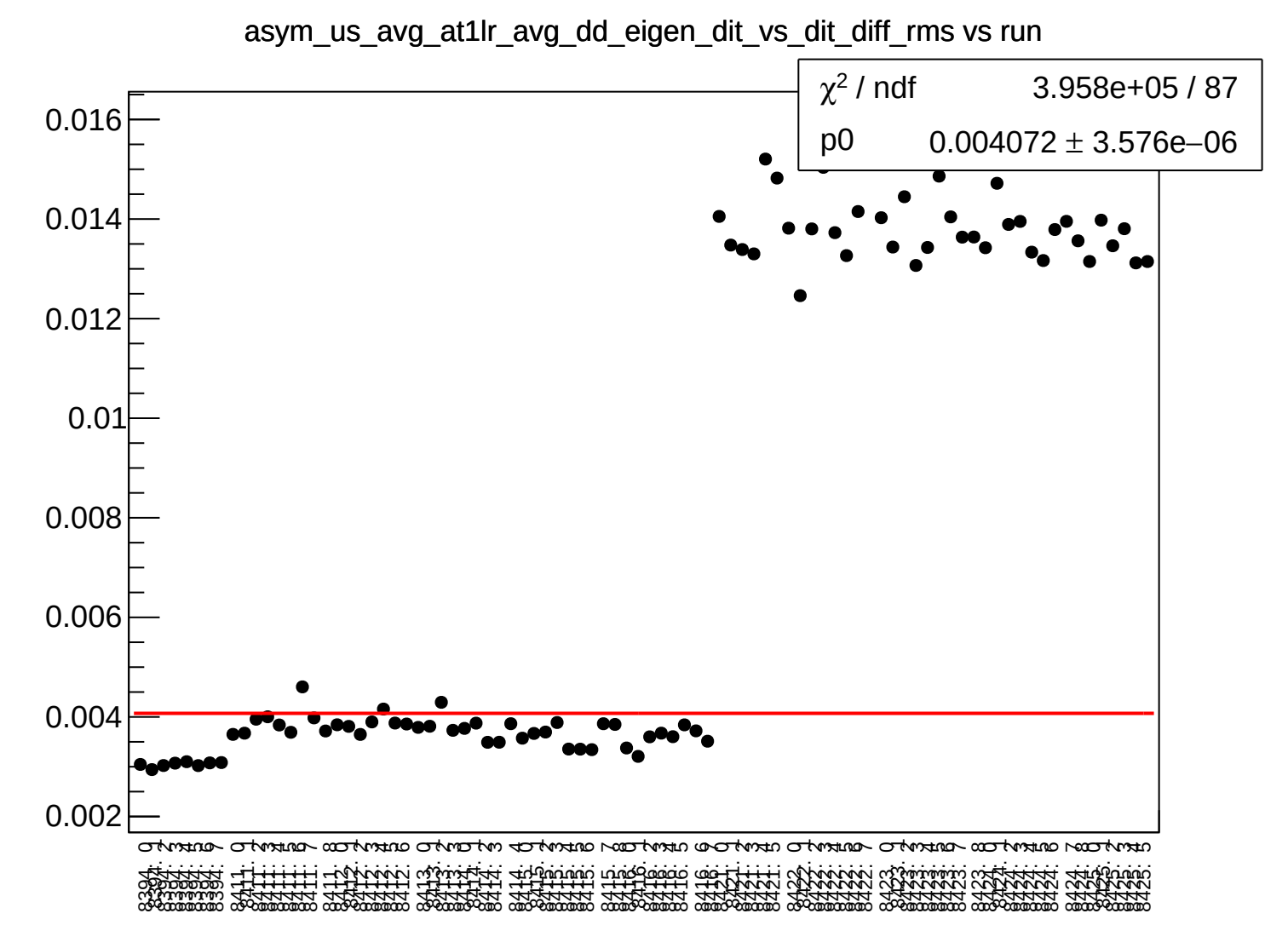


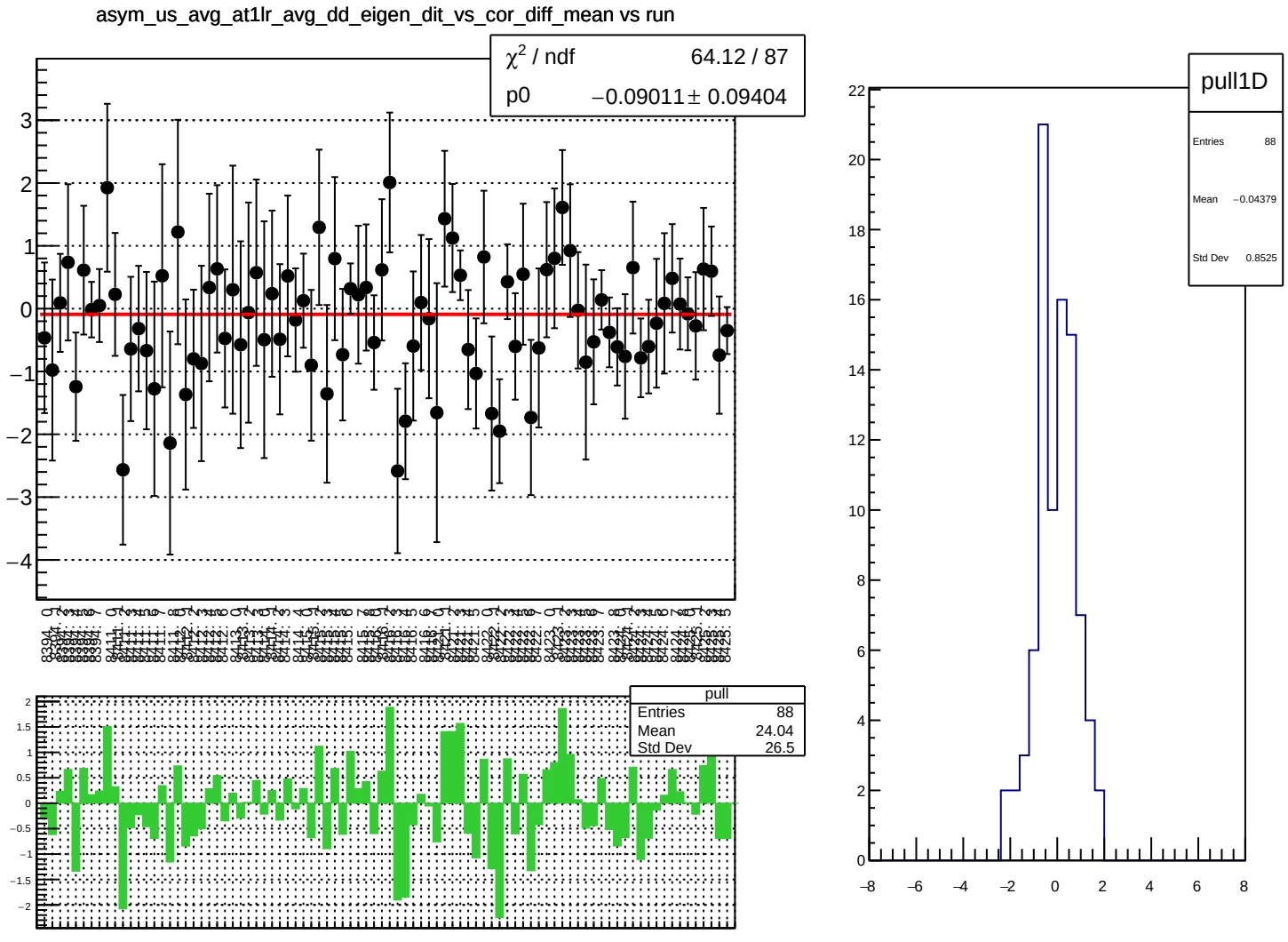


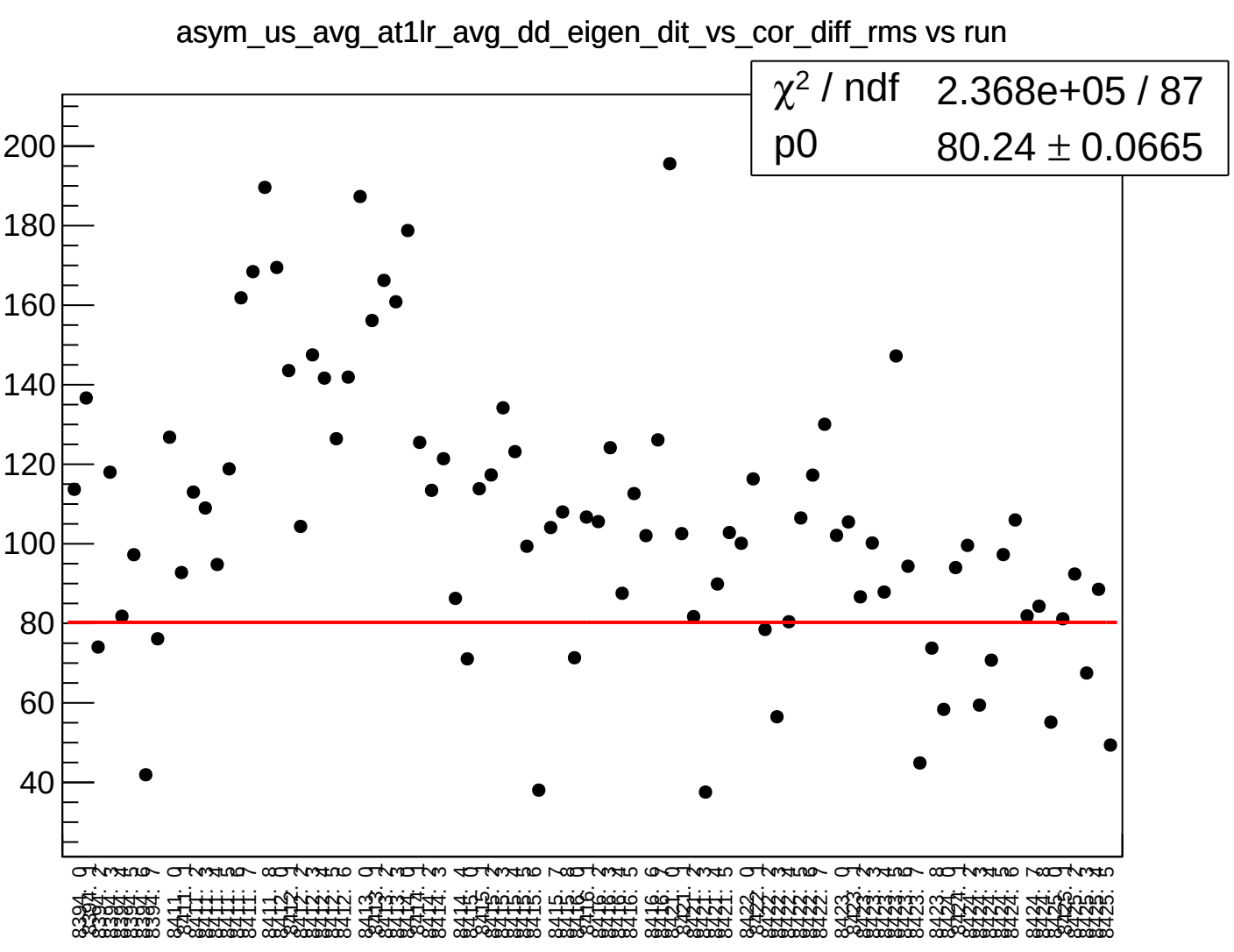


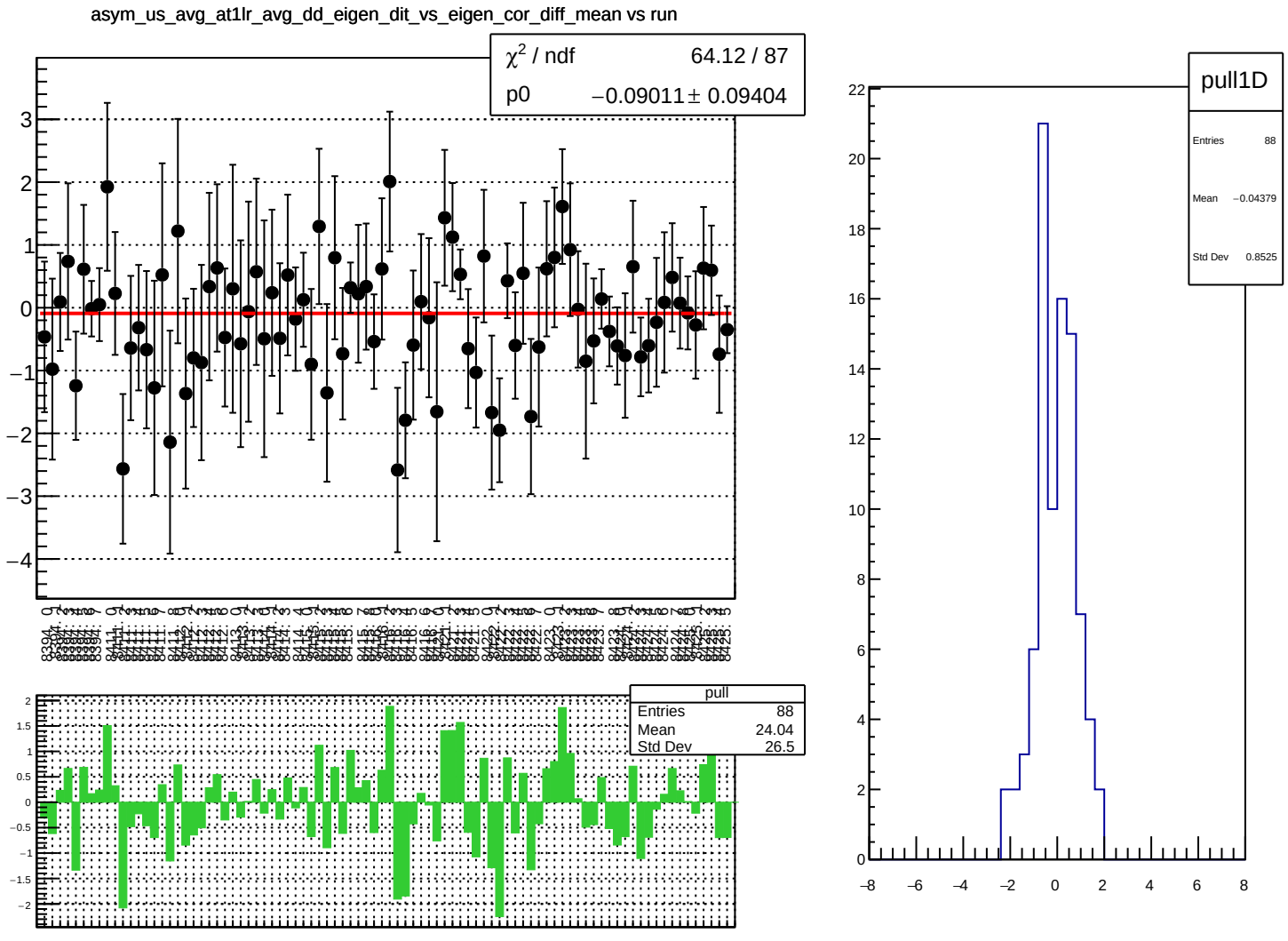

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.368e+05 / 87
p0 80.25 ± 0.0665
200
180
160
140
120
100
80
60
40

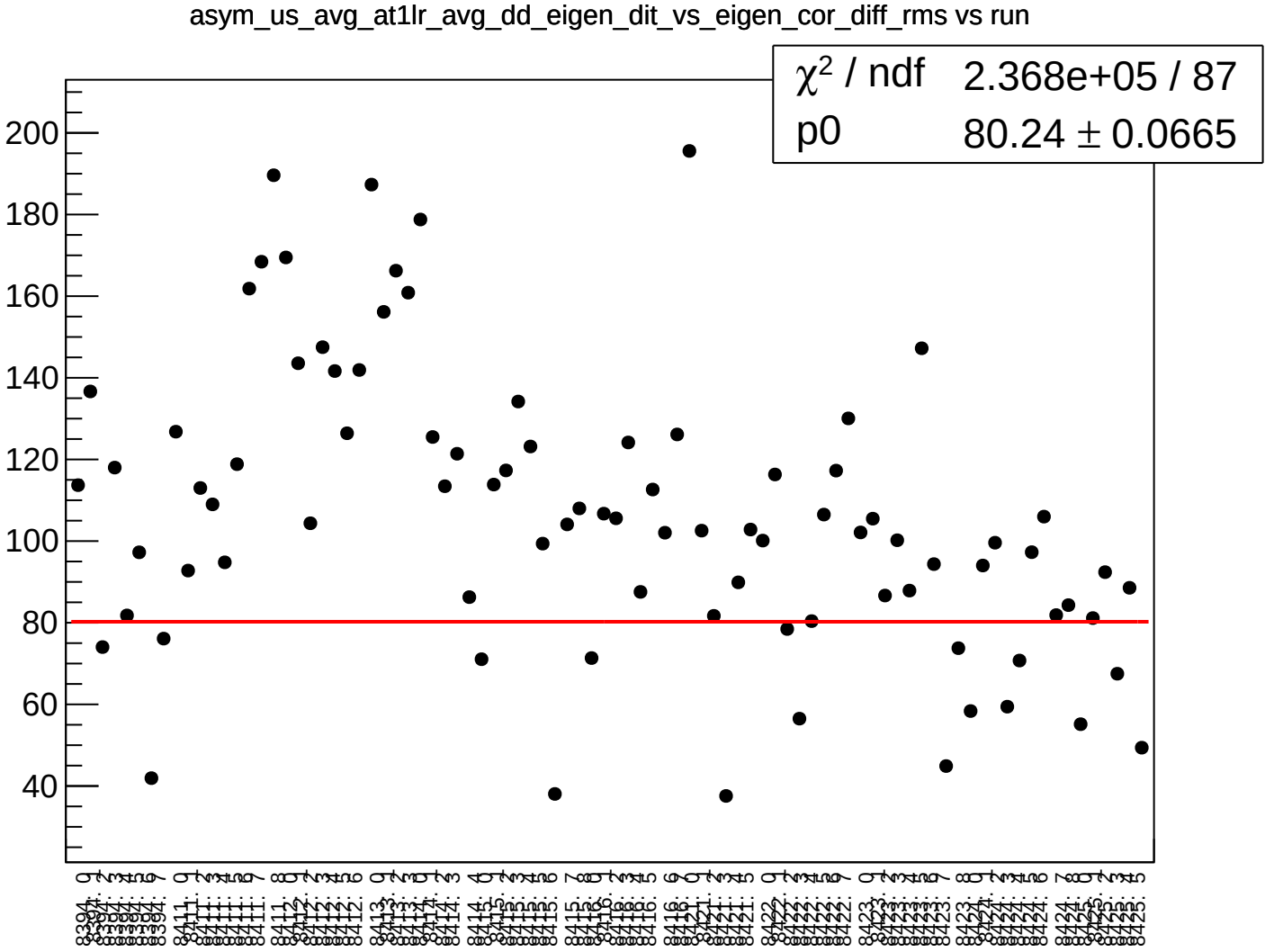

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.62 / 87
p0 −2.04e−05 ± 5.057e−06
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 88
Mean 88.97
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.1451
Std Dev 0.9279
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

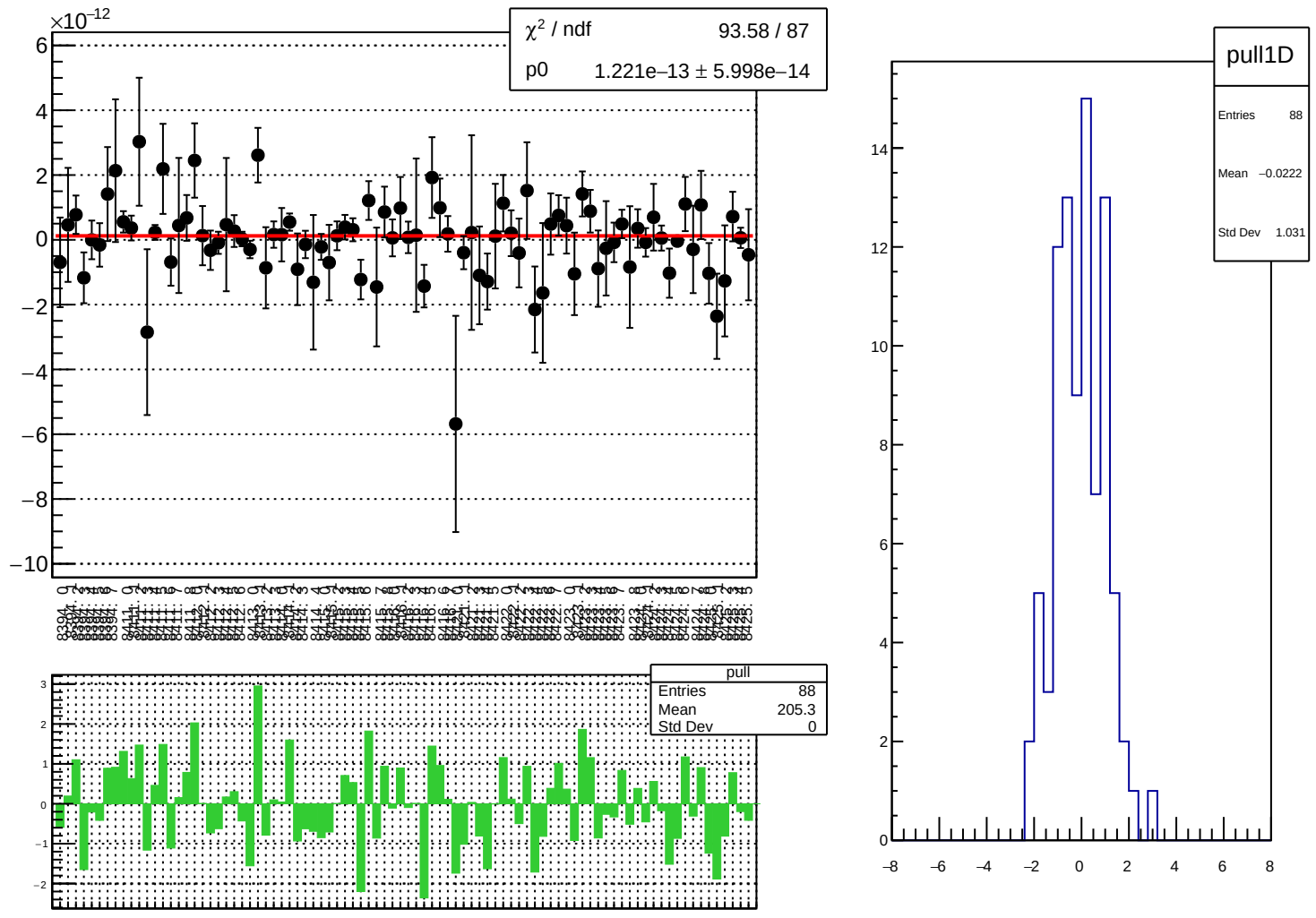

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.958e+05 / 87
p0 0.004072 ± 3.576e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

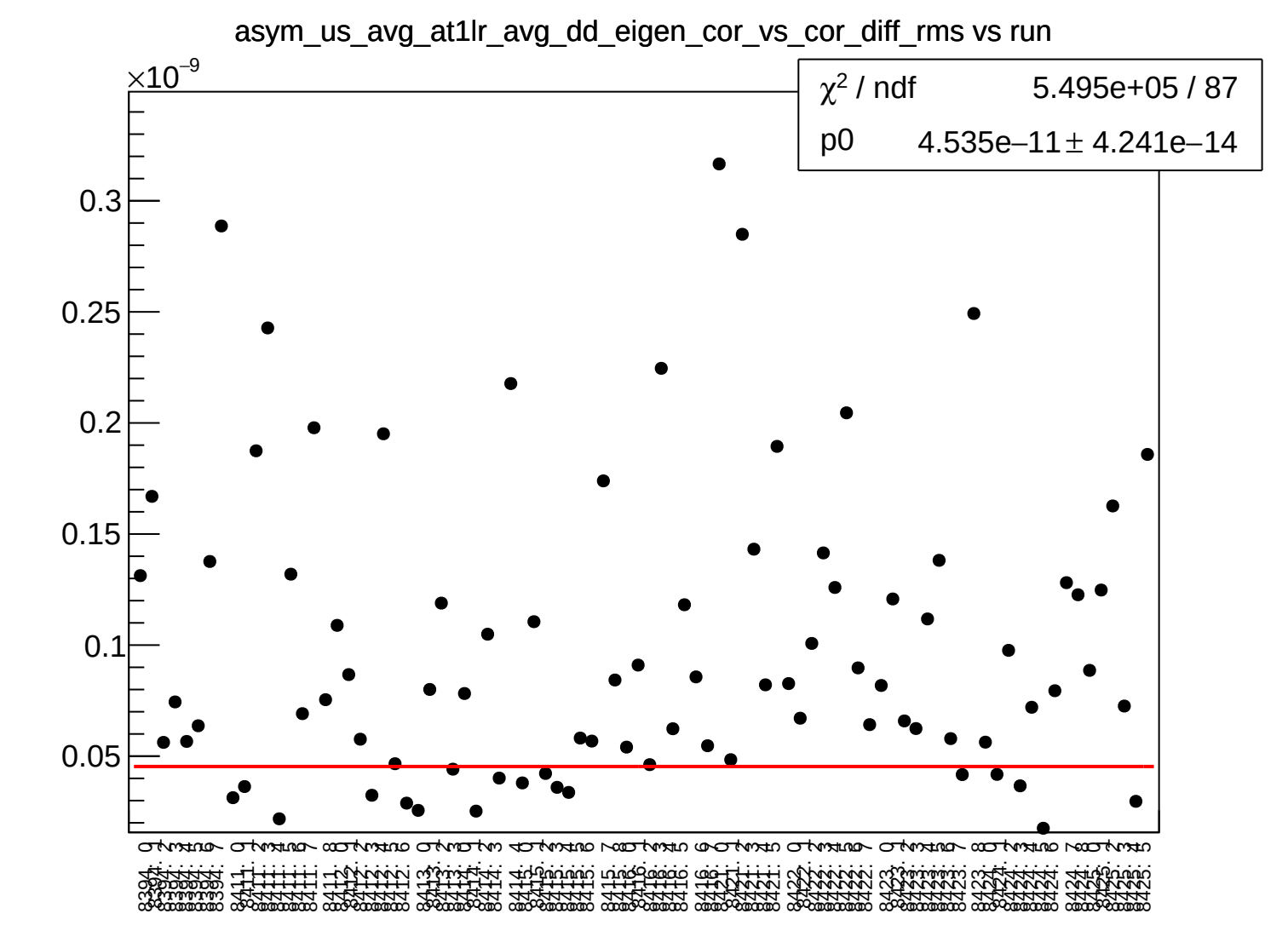

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 64.12 / 87
p0 −0.09011 ± 0.09404
pull
Entries 88
Mean 24.04
Std Dev 26.5
pull1D
Entries 88
Mean −0.04379
Std Dev 0.8525

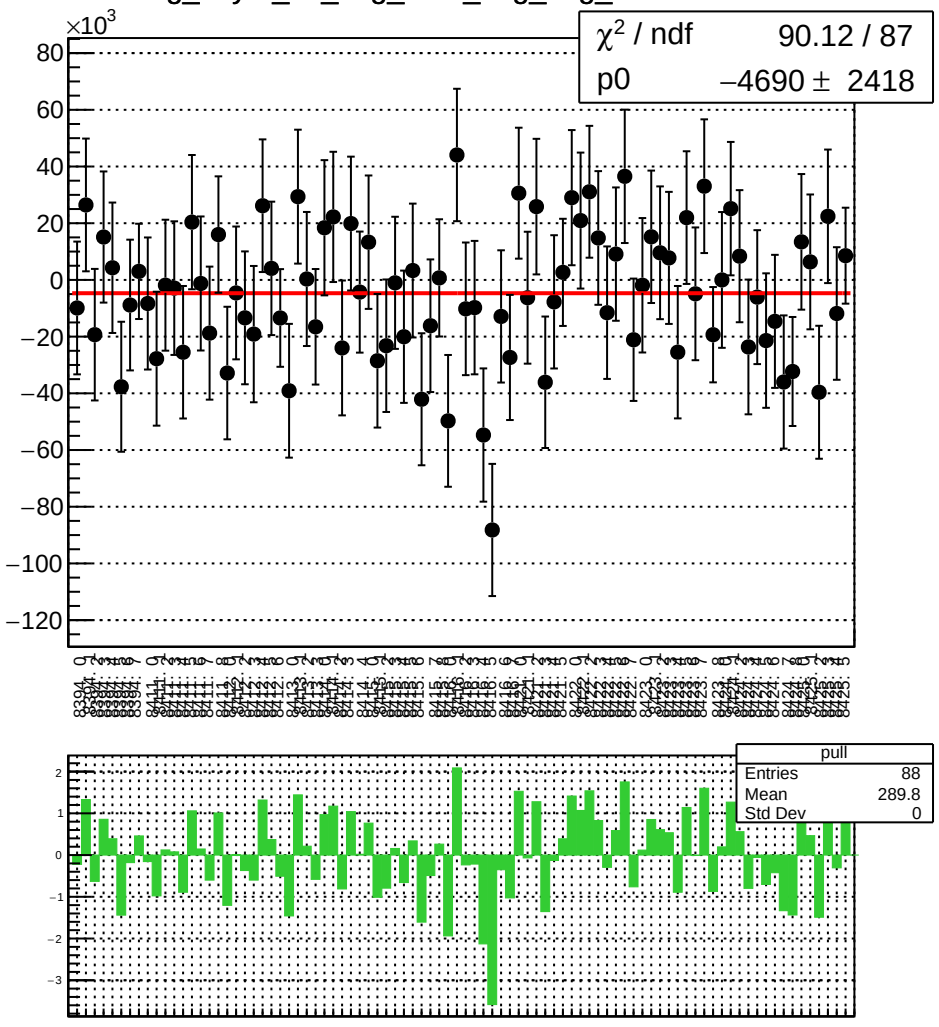

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.368e+05 / 87
p0 80.24 ± 0.0665
200
180
160
140
120
100
80
60
40

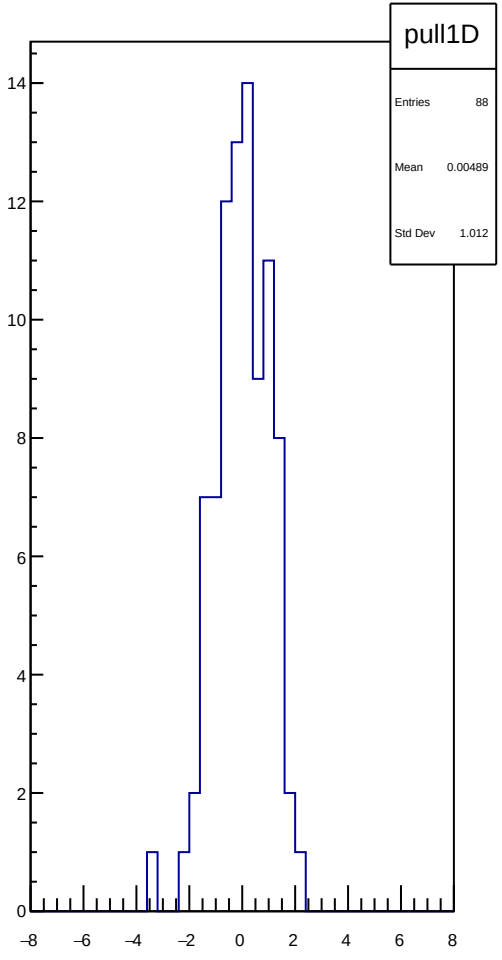

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.12 / 87
p0 −0.09011 ± 0.09404
pull
Entries 88
Mean 24.04
Std Dev 26.5
pull1D
Entries 88
Mean −0.04379
Std Dev 0.8525

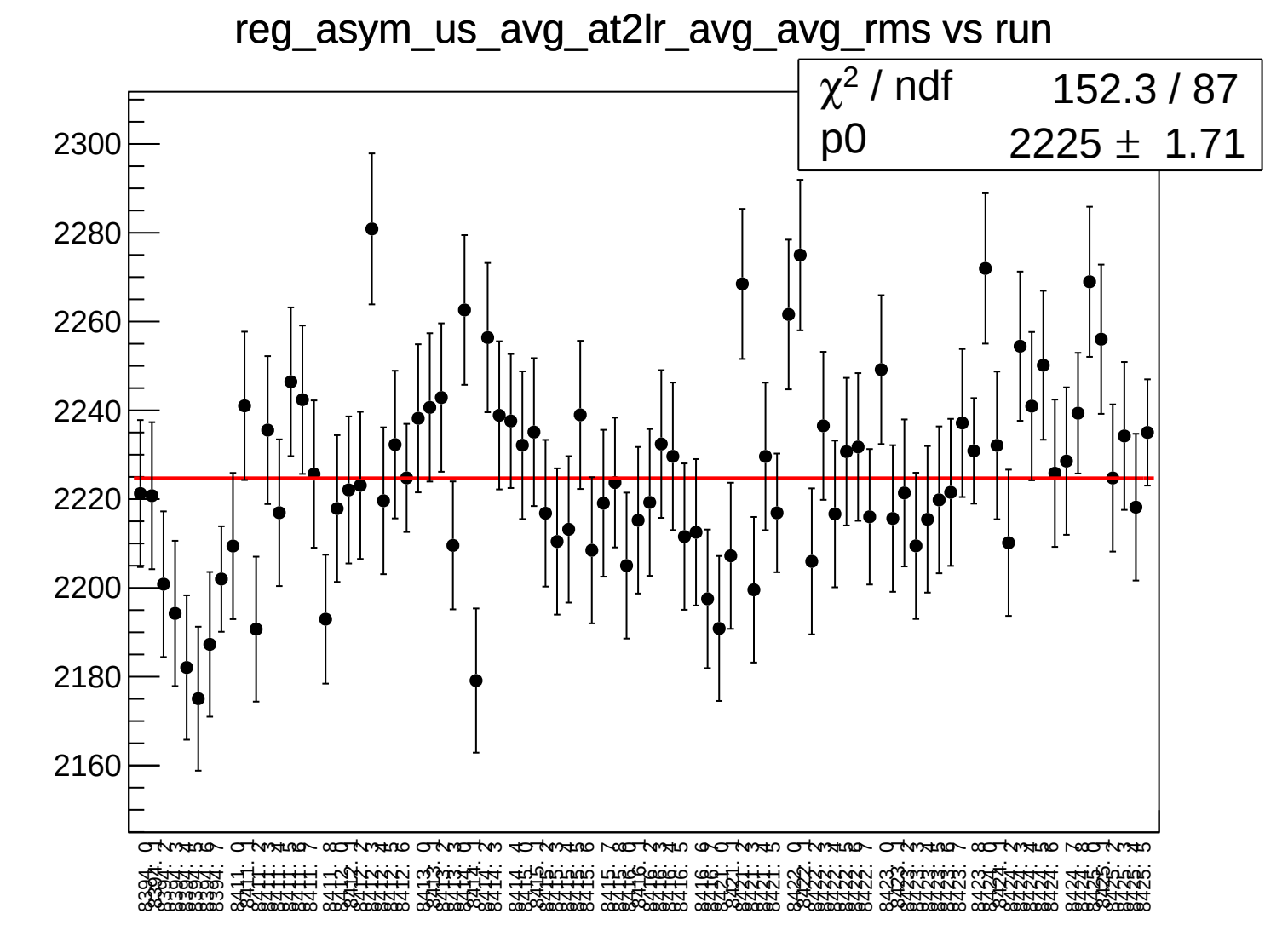

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.368e+05 / 87
p0 80.24 ± 0.0665
200
180
160
140
120
100
80
60
40

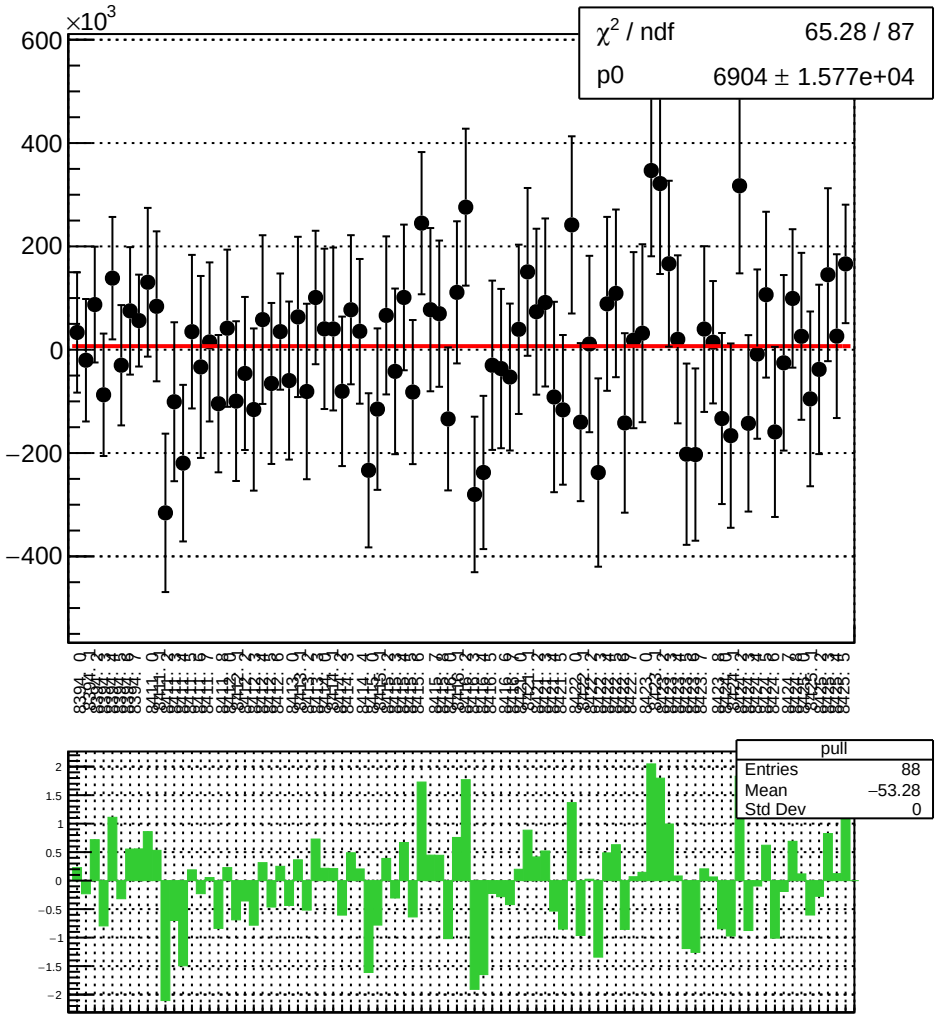

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.58 / 87
p0 1.221e−13 ± 5.998e−14
pull
Entries 88
Mean 205.3
Std Dev 0
pull1D
Entries 88
Mean −0.0222
Std Dev 1.031

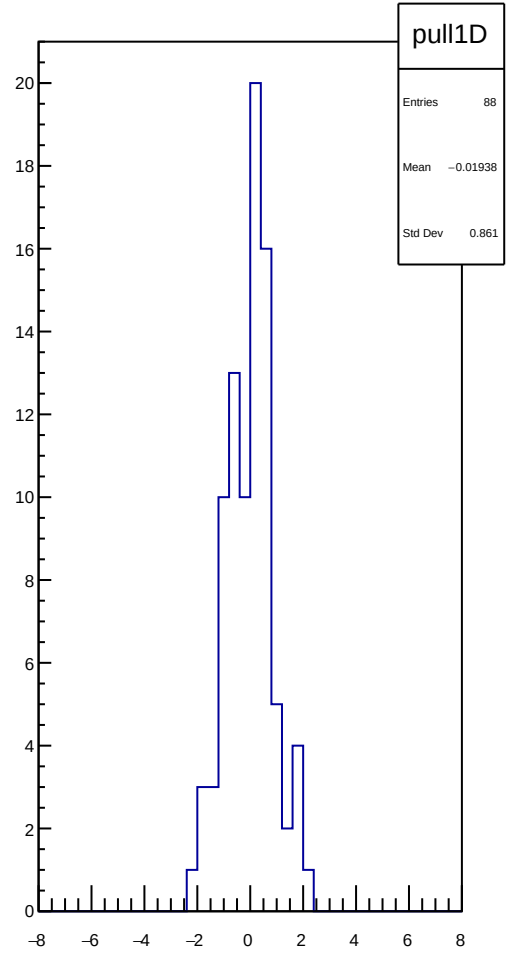

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.495e+05 / 87
p0 4.535e−11 ± 4.241e−14
0.3
0.25
0.2
0.15
0.1
0.05

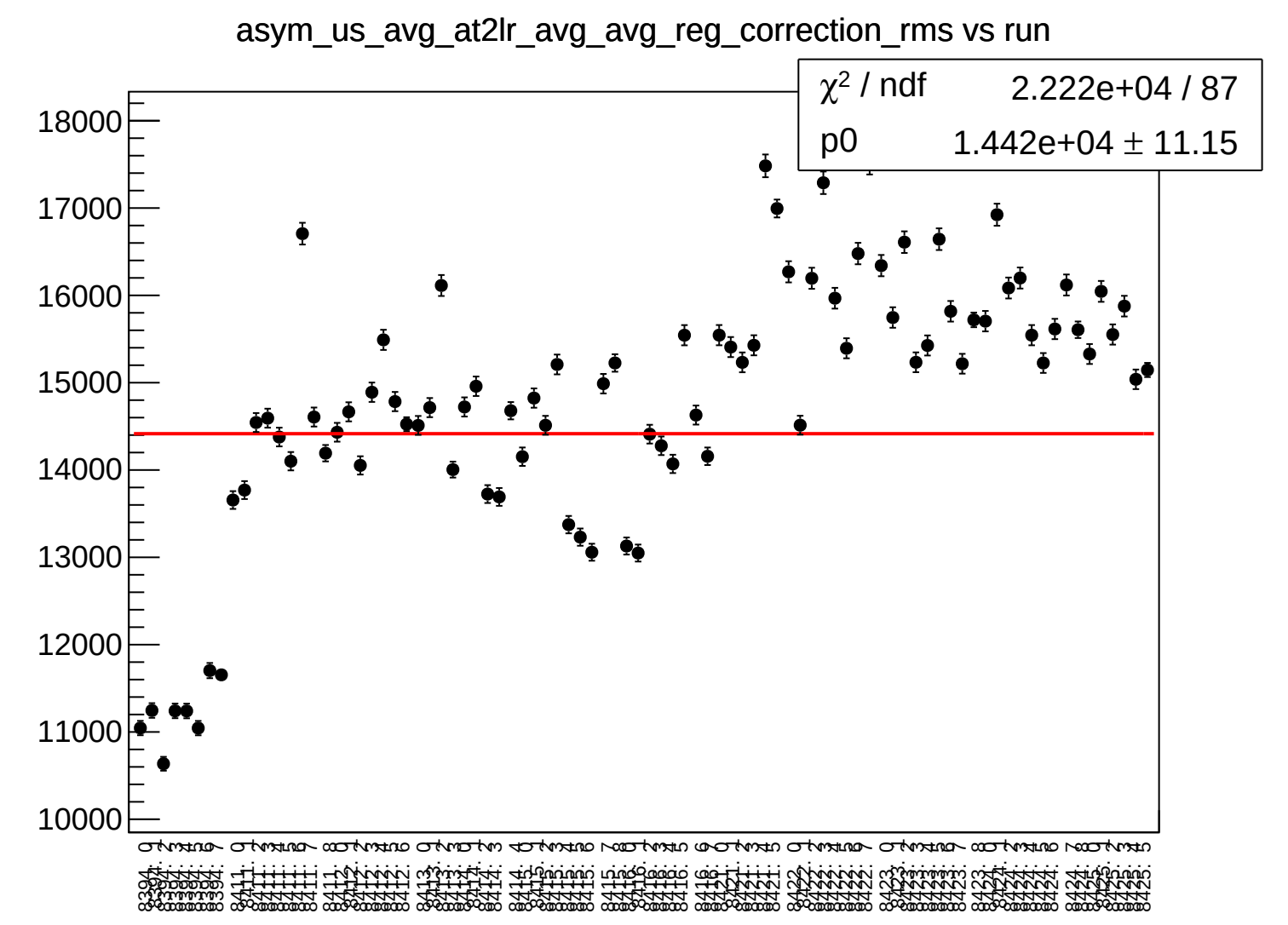

reg_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 90.12 / 87
p0 −4690 ± 2418
pull
Entries 88
Mean 289.8
Std Dev 0

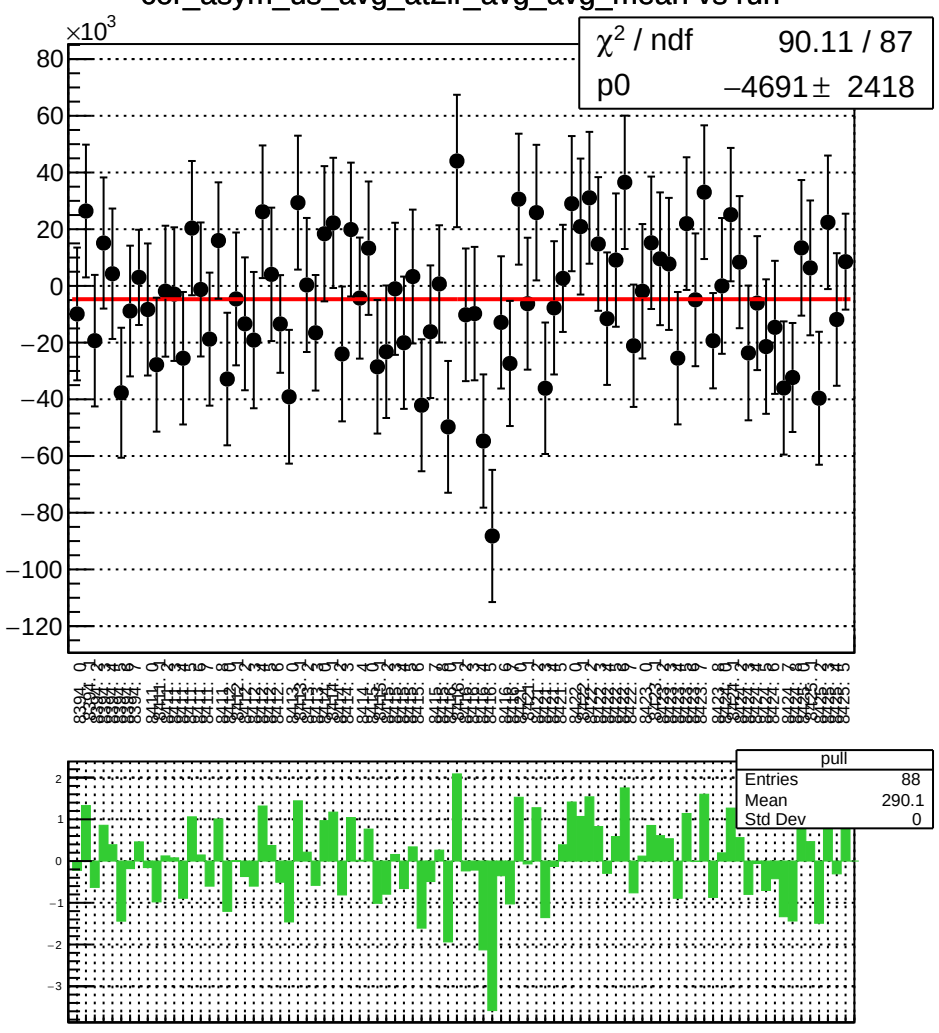

pull1D
Entries 88
Mean 0.00489
Std Dev 1.012

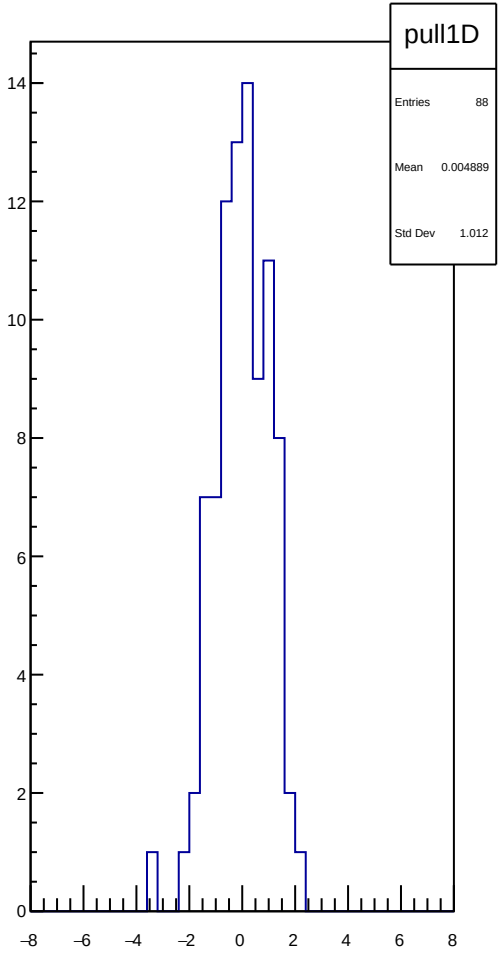

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 152.3 / 87
p0 2225 ± 1.71
2300
2280
2260
2240
2220
2200
2180
2160

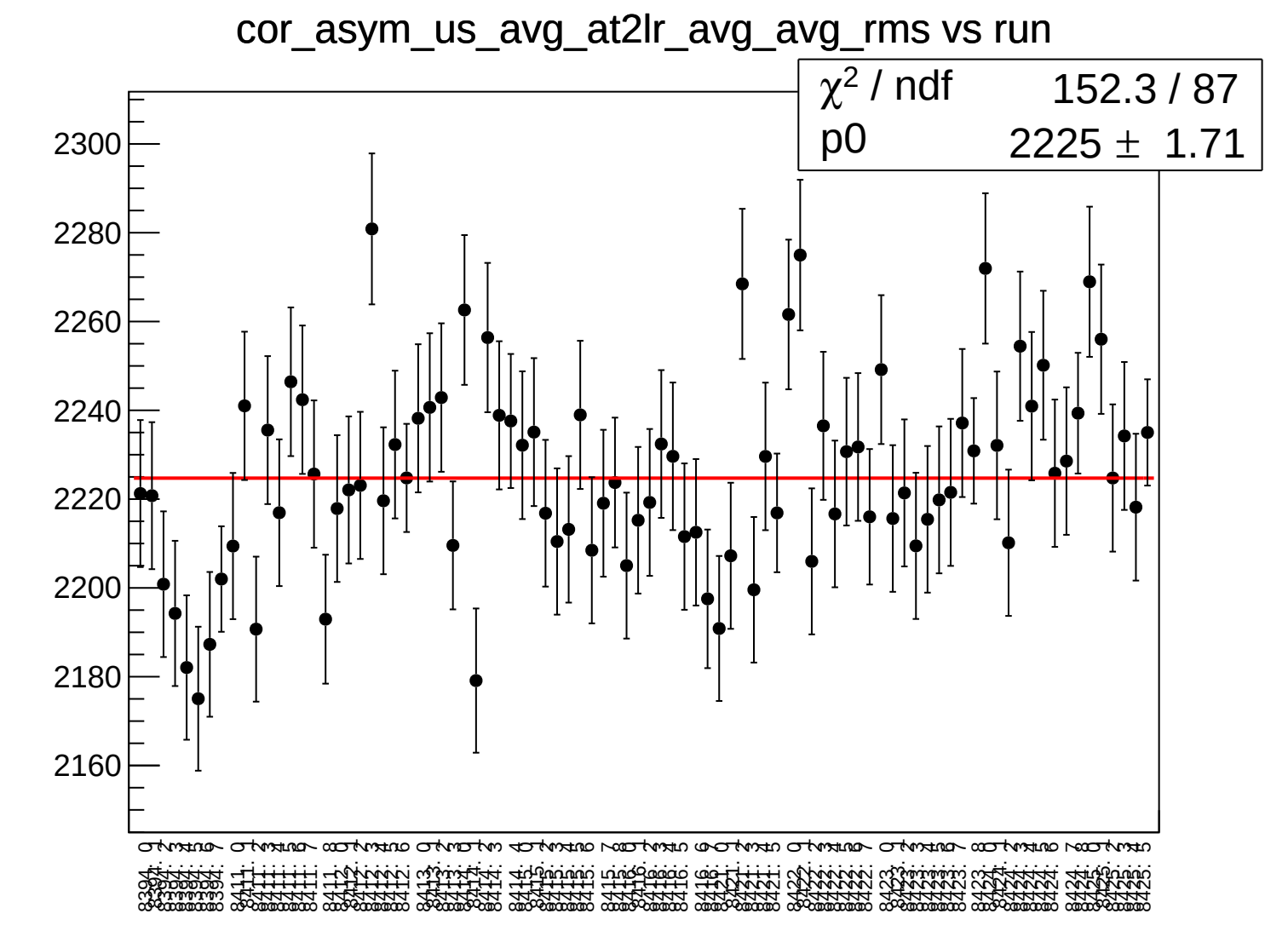

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 65.28 / 87
p0 6904 ± 1.577e+04
pull
Entries 88
Mean −53.28
Std Dev 0

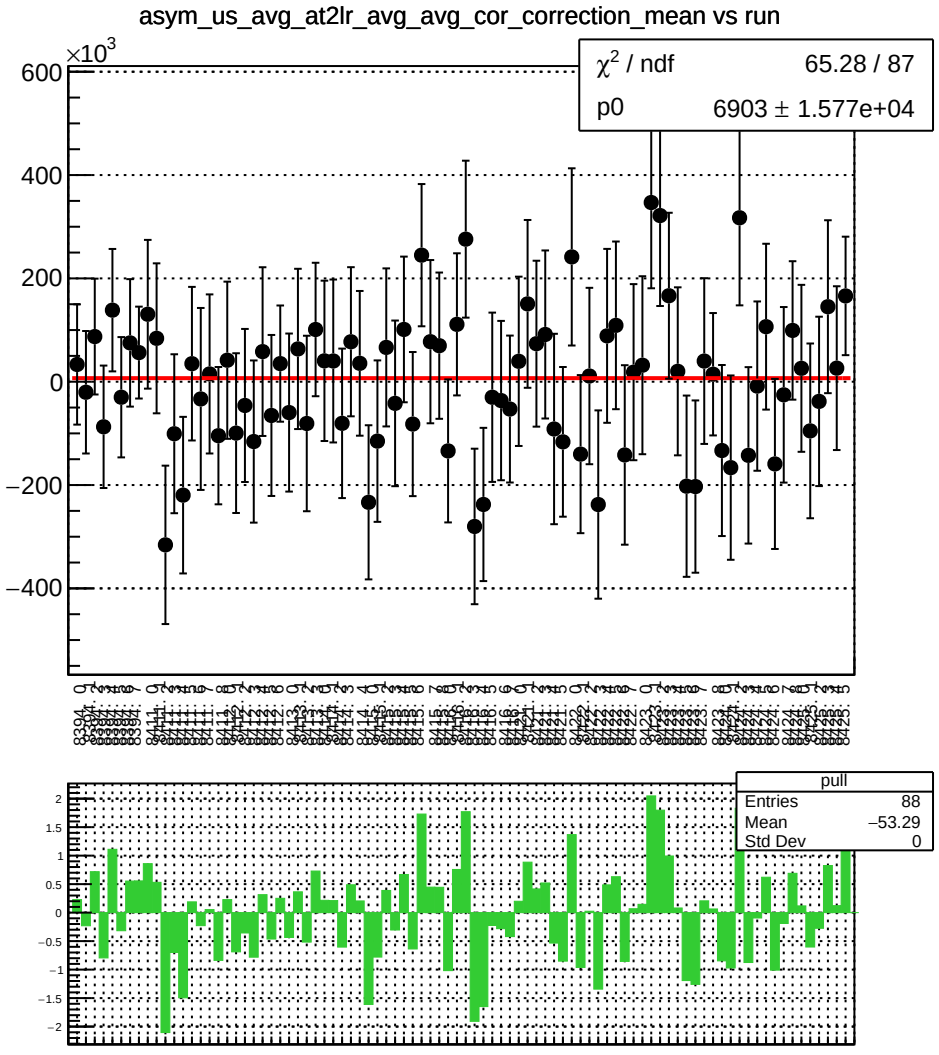

pull1D
Entries 88
Mean −0.01938
Std Dev 0.861

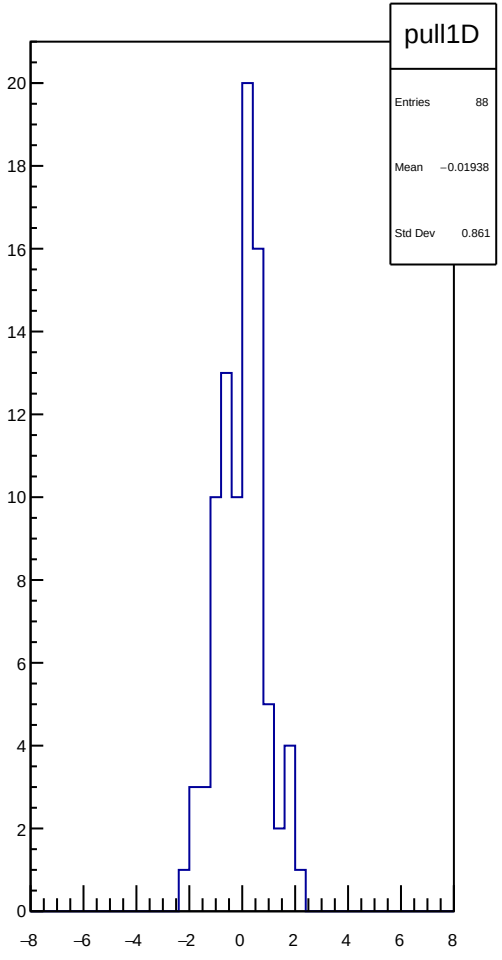

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 2.222e+04 / 87
p0 1.442e+04 ± 11.15
18000
17000
16000
15000
14000
13000
12000
11000
10000

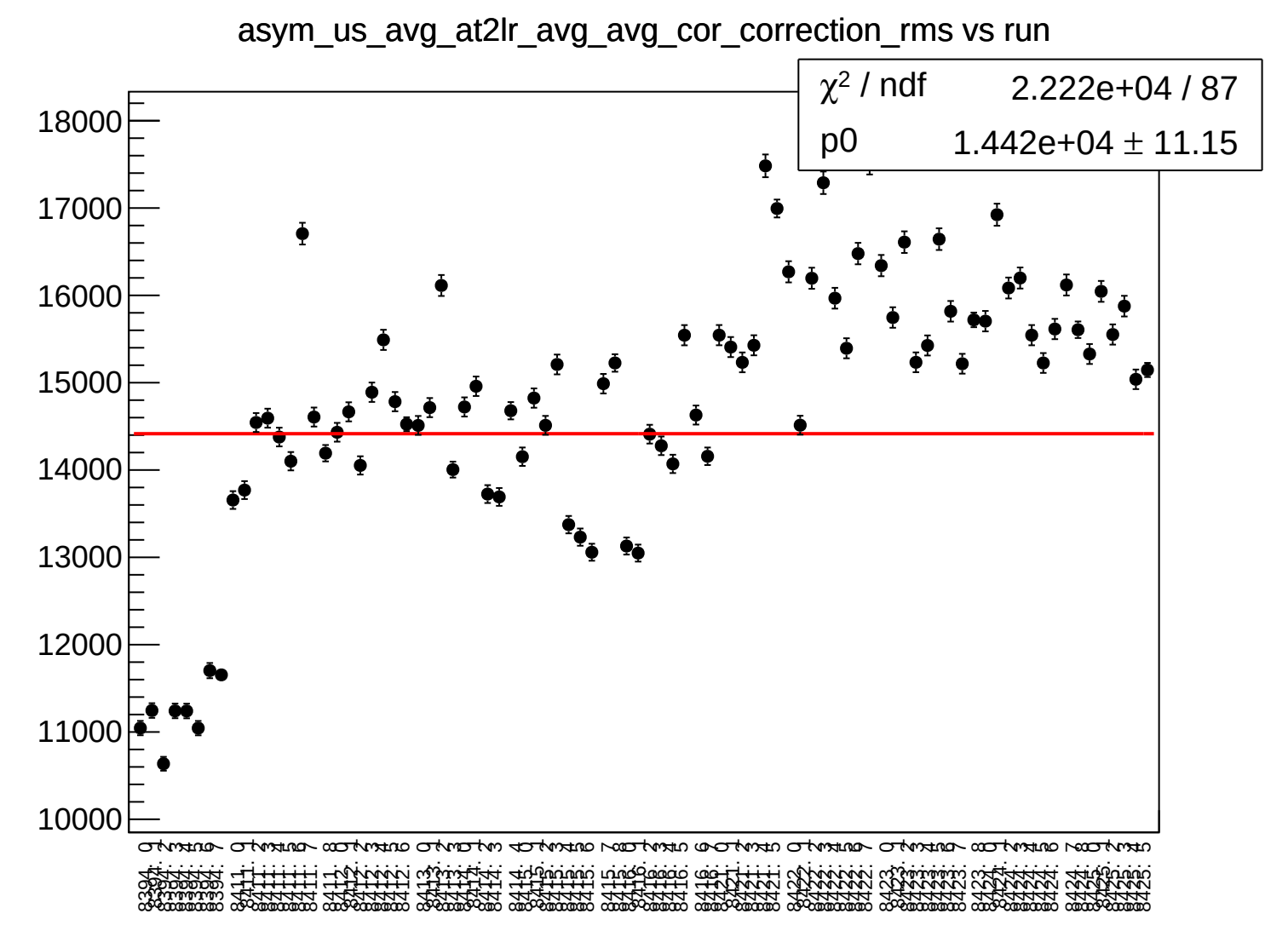

cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 90.11 / 87
p0 −4691 ± 2418
pull
Entries 88
Mean 290.1
Std Dev 0

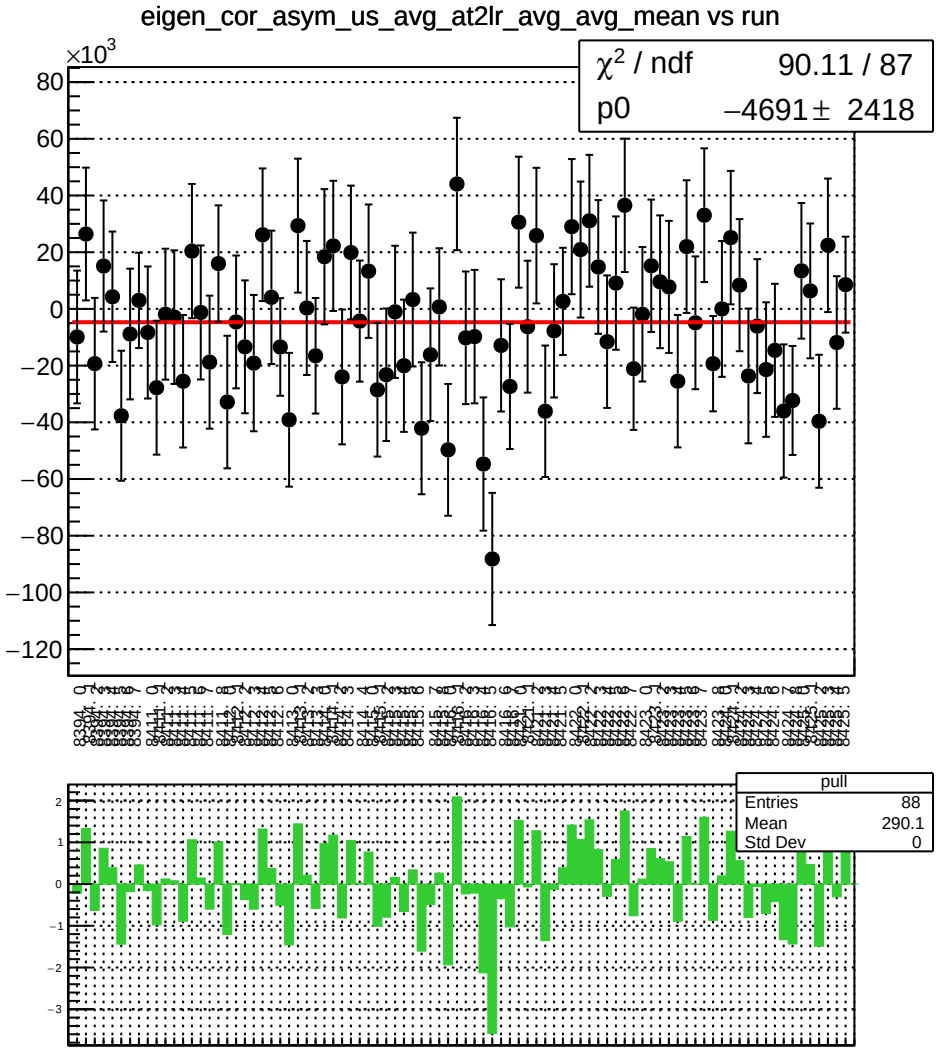

pull1D
Entries 88
Mean 0.004889
Std Dev 1.012

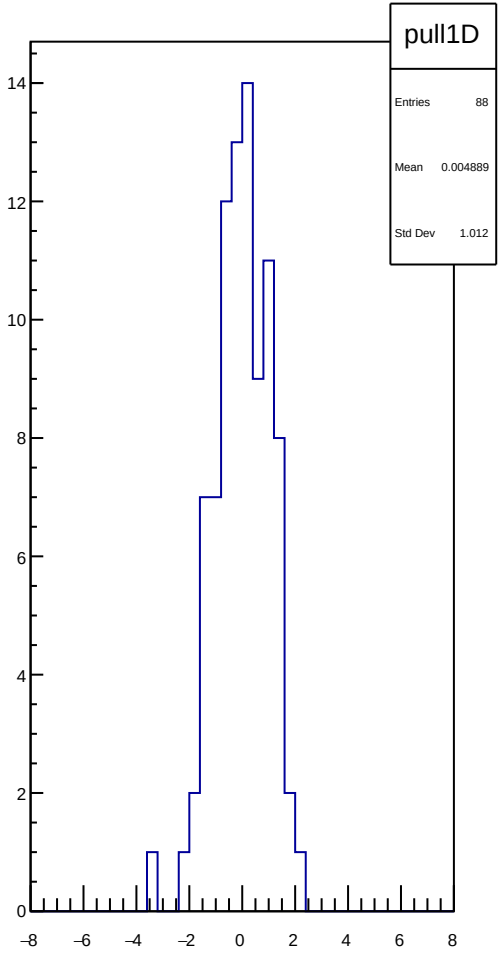

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 152.3 / 87
p0 2225 ± 1.71
2300
2280
2260
2240
2220
2200
2180
2160

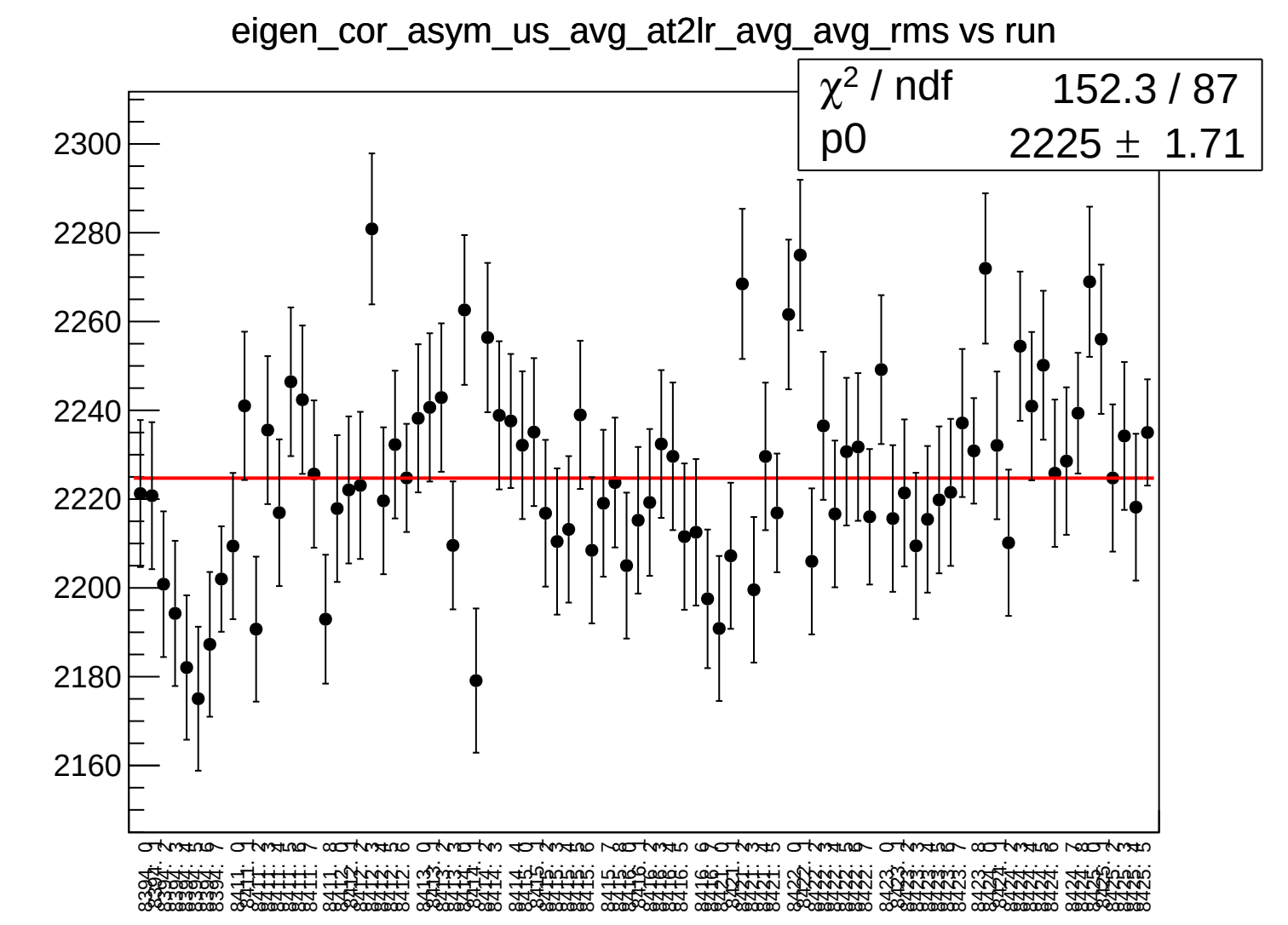

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 65.28 / 87
p0 6903 ± 1.577e+04
pull
Entries 88
Mean −53.29
Std Dev 0

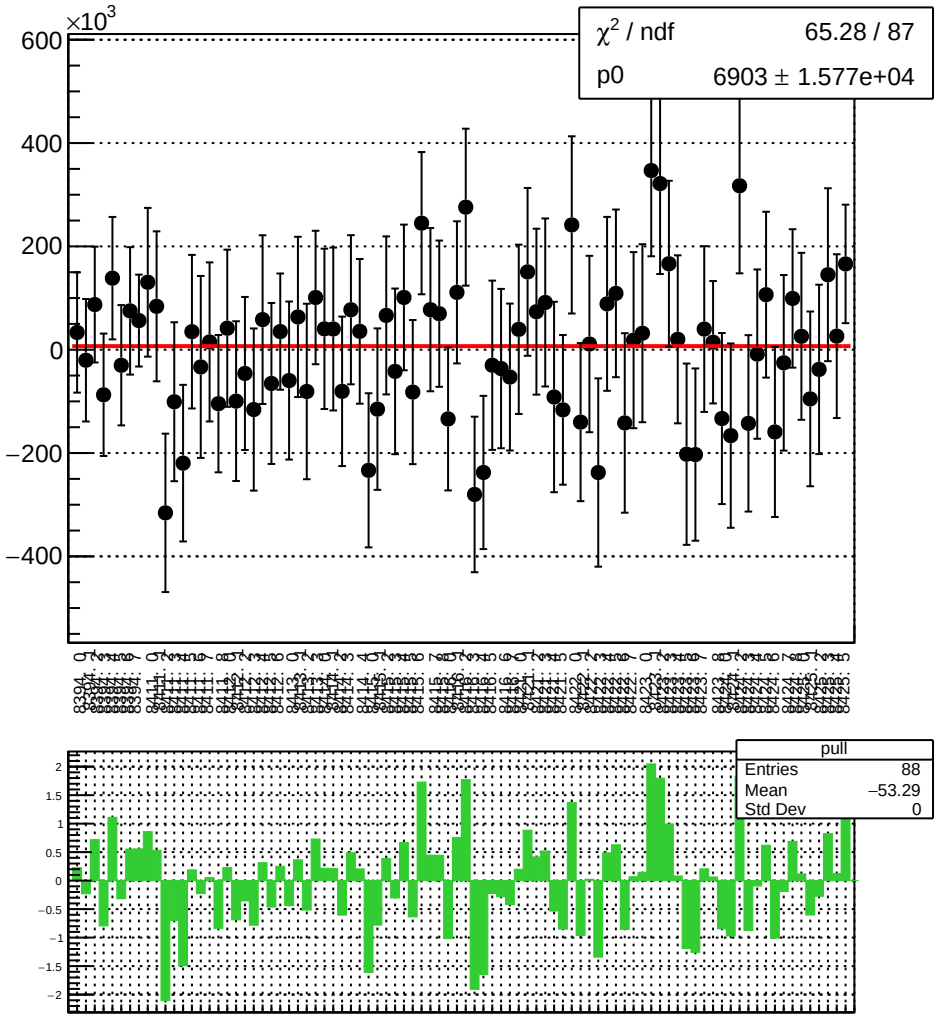

pull1D
Entries 88
Mean −0.01938
Std Dev 0.861

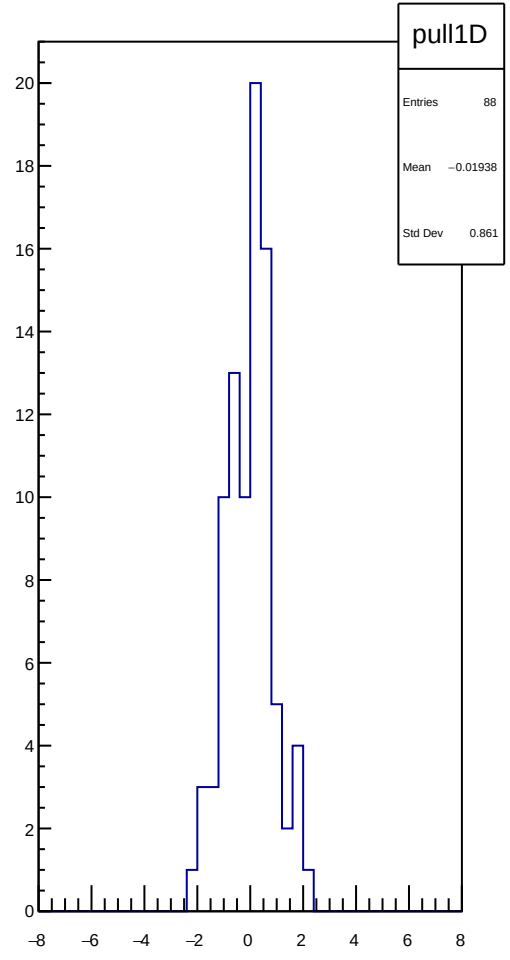

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 2.222e+04 / 87
p0 1.442e+04 ± 11.15
18000
17000
16000
15000
14000
13000
12000
11000
10000

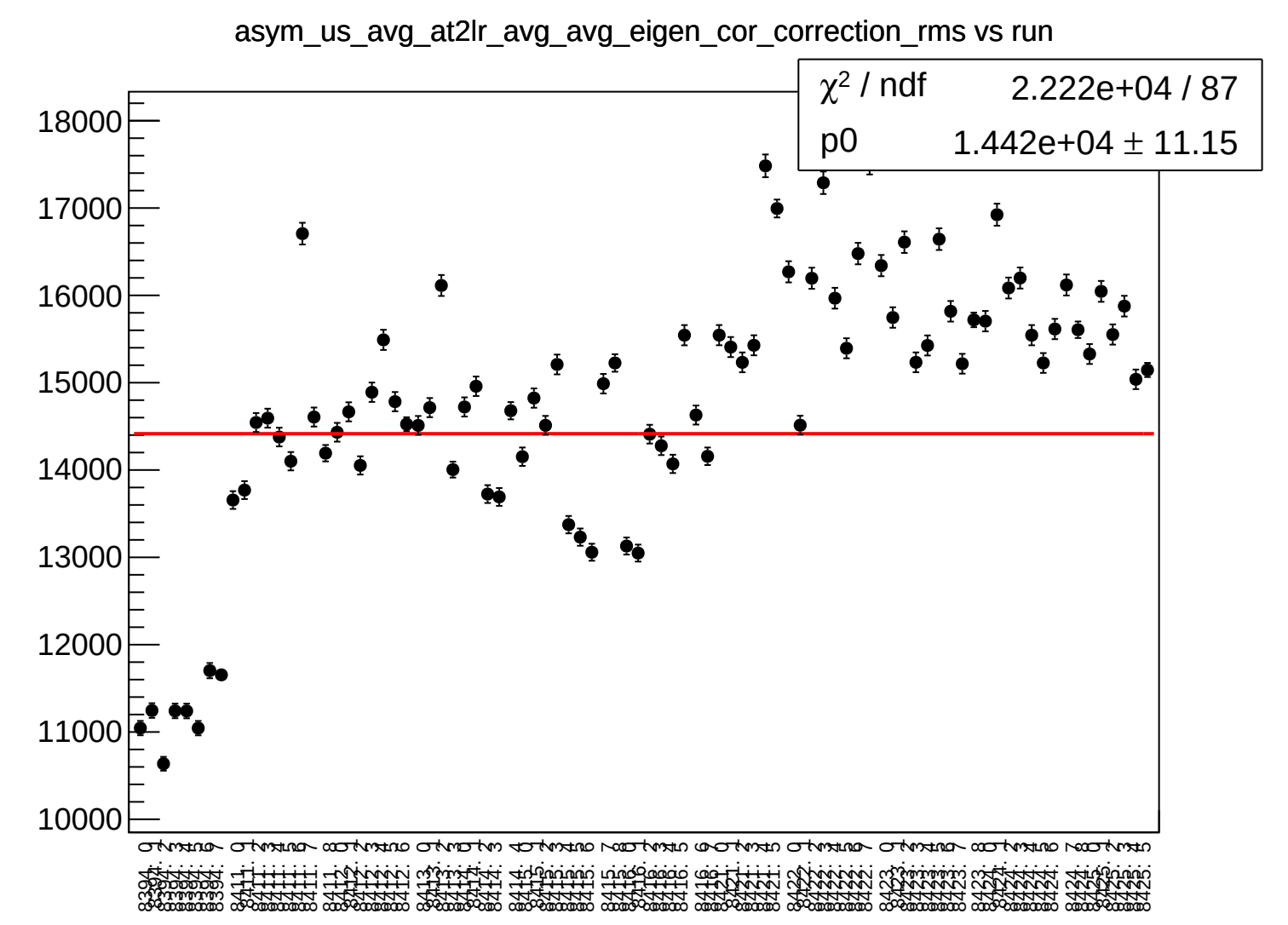

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 90.11 / 87
p0 −4691 ± 2418
pull
Entries 88
Mean 290.1
Std Dev 0

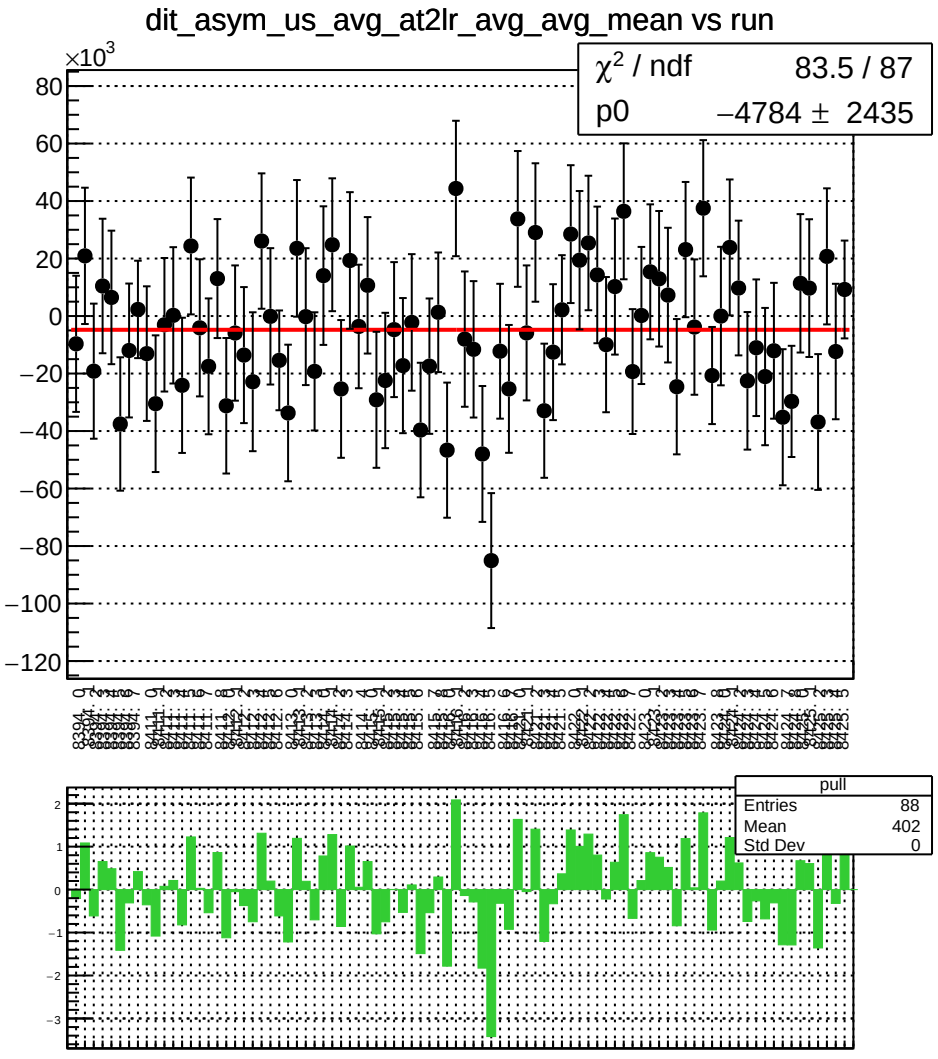

pull1D
Entries 88
Mean 0.004889
Std Dev 1.012

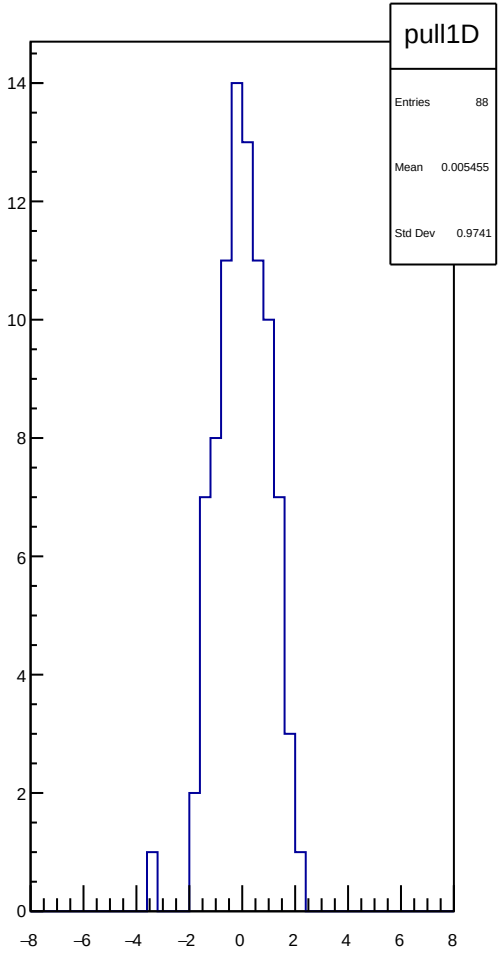

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 152.3 / 87
p0 2225 ± 1.71
2300
2280
2260
2240
2220
2200
2180
2160

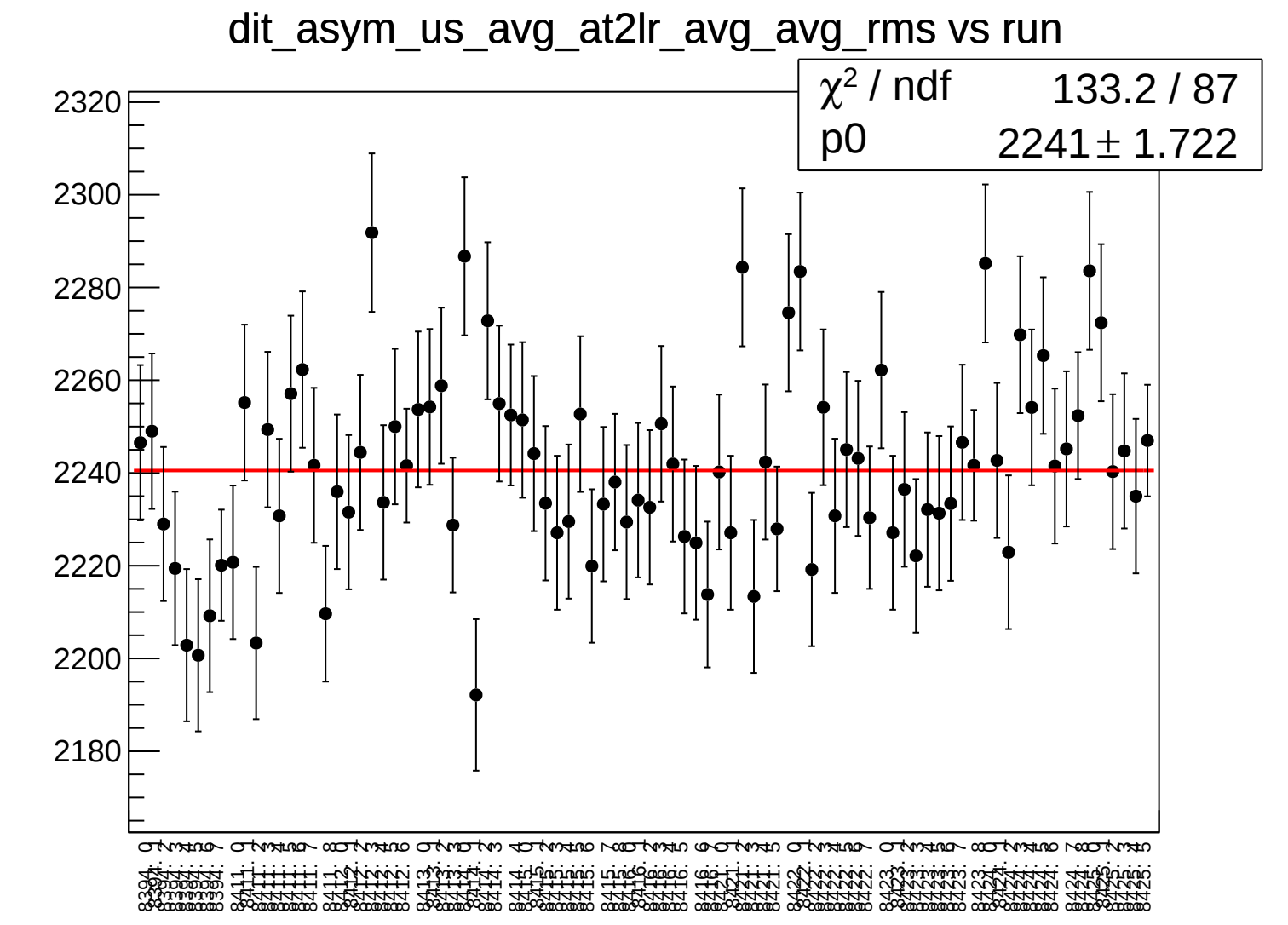

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 65.28 / 87
p0 6903 ± 1.577e+04
pull
Entries 88
Mean −53.29
Std Dev 0

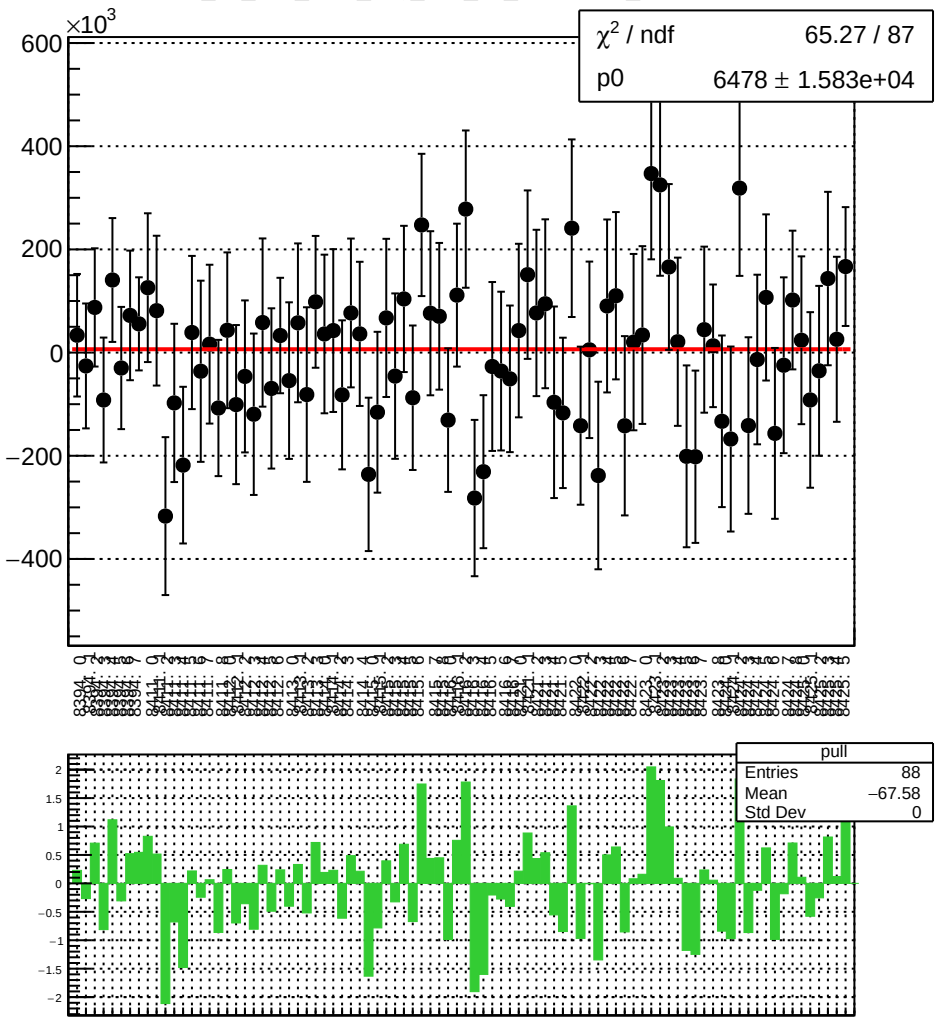

pull1D
Entries 88
Mean −0.01938
Std Dev 0.861

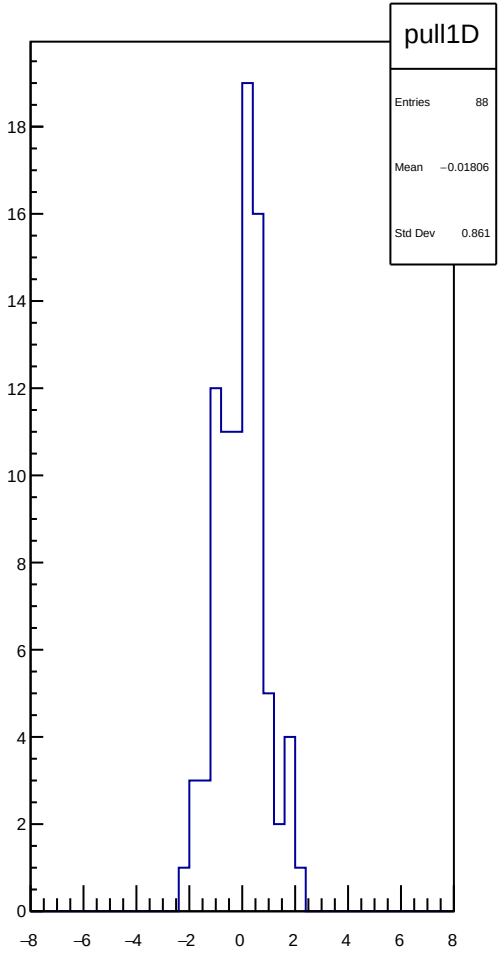

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.222e+04 / 87
p0 1.442e+04 ± 11.15
18000
17000
16000
15000
14000
13000
12000
11000
10000

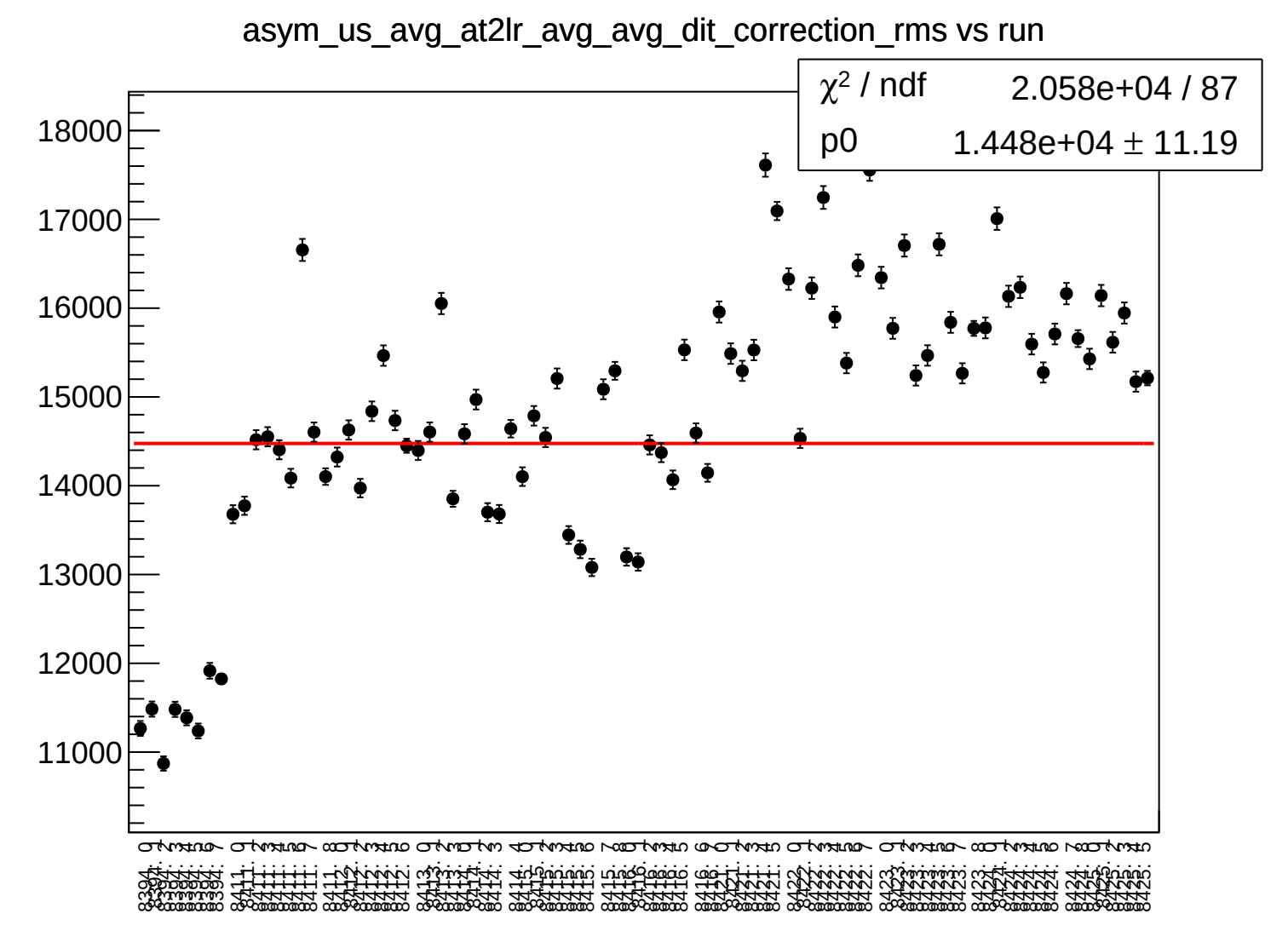

dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 83.5 / 87
p0 −4784 ± 2435
pull
Entries 88
Mean 402
Std Dev 0

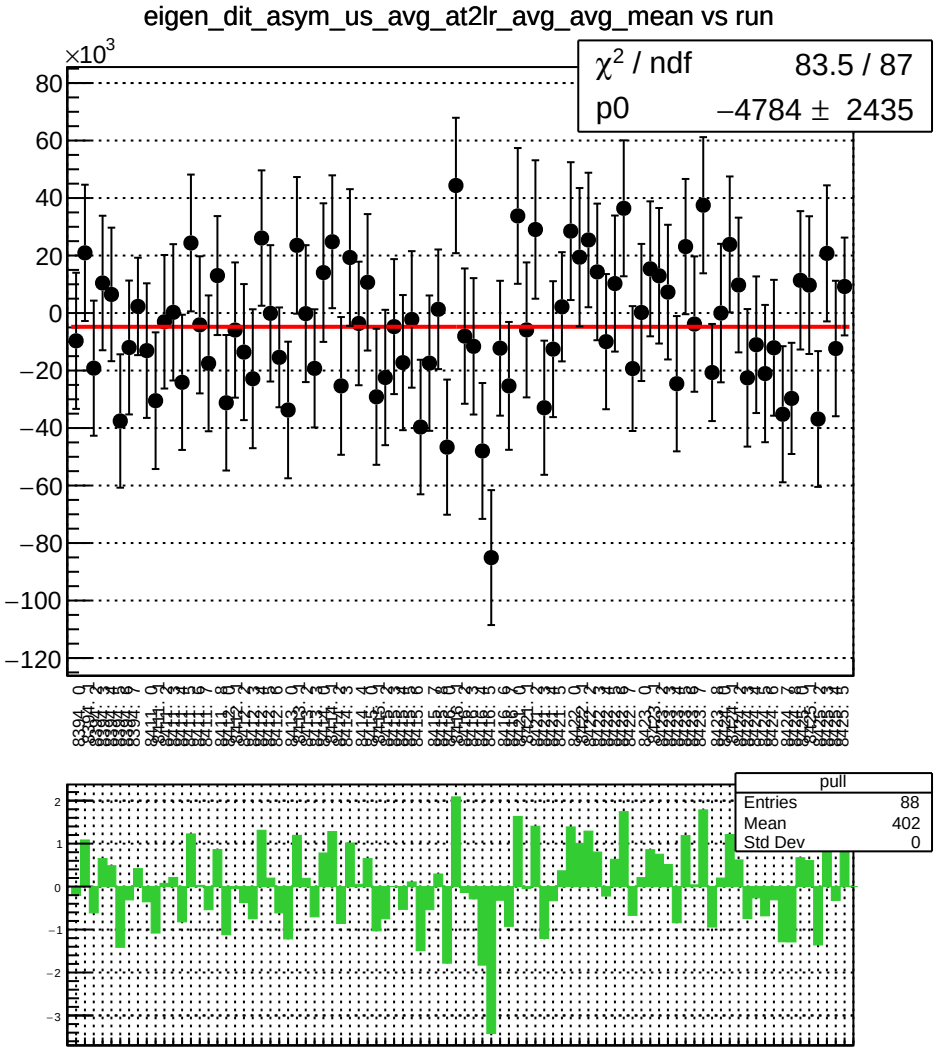

pull1D
Entries 88
Mean 0.005455
Std Dev 0.9741

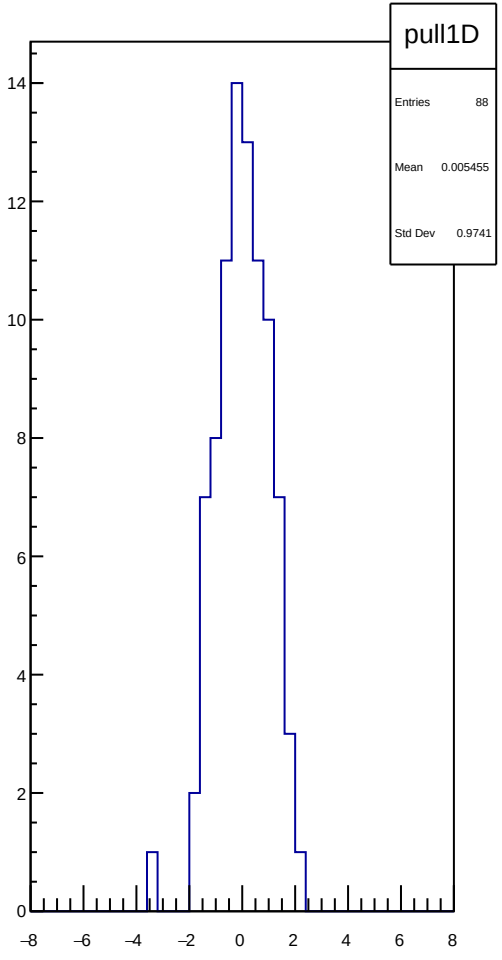

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 133.2 / 87
p0 2241 ± 1.722
2320
2300
2280
2260
2240
2220
2200
2180

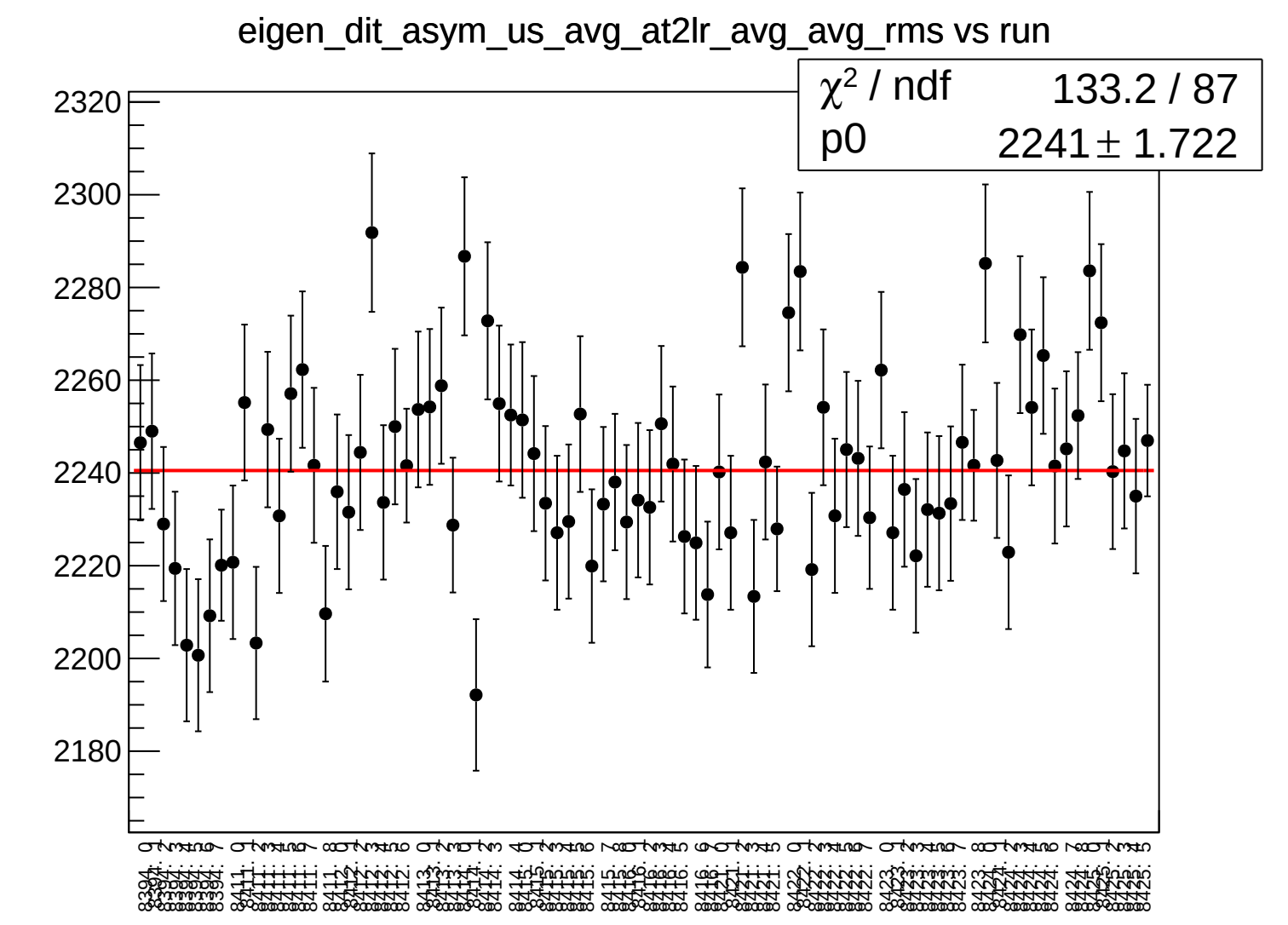

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 65.27 / 87
p0 6478 ± 1.583e+04
pull
Entries 88
Mean −67.58
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

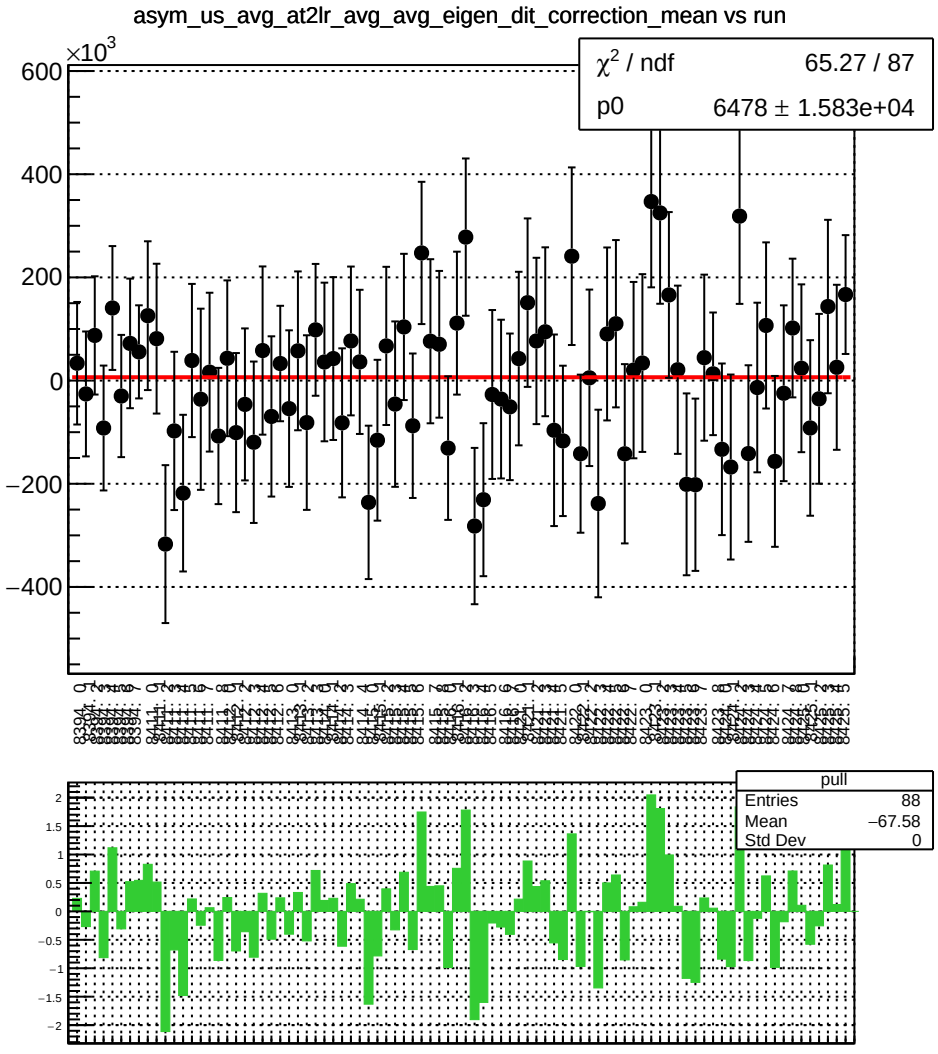

pull1D
Entries 88
Mean −0.01806
Std Dev 0.861
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

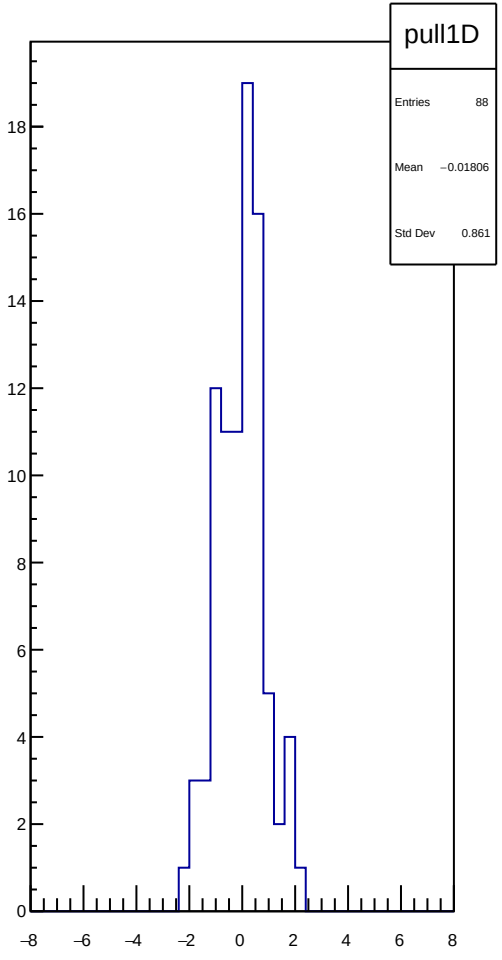

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 2.058e+04 / 87
p0 1.448e+04 ± 11.19
18000
17000
16000
15000
14000
13000
12000
11000

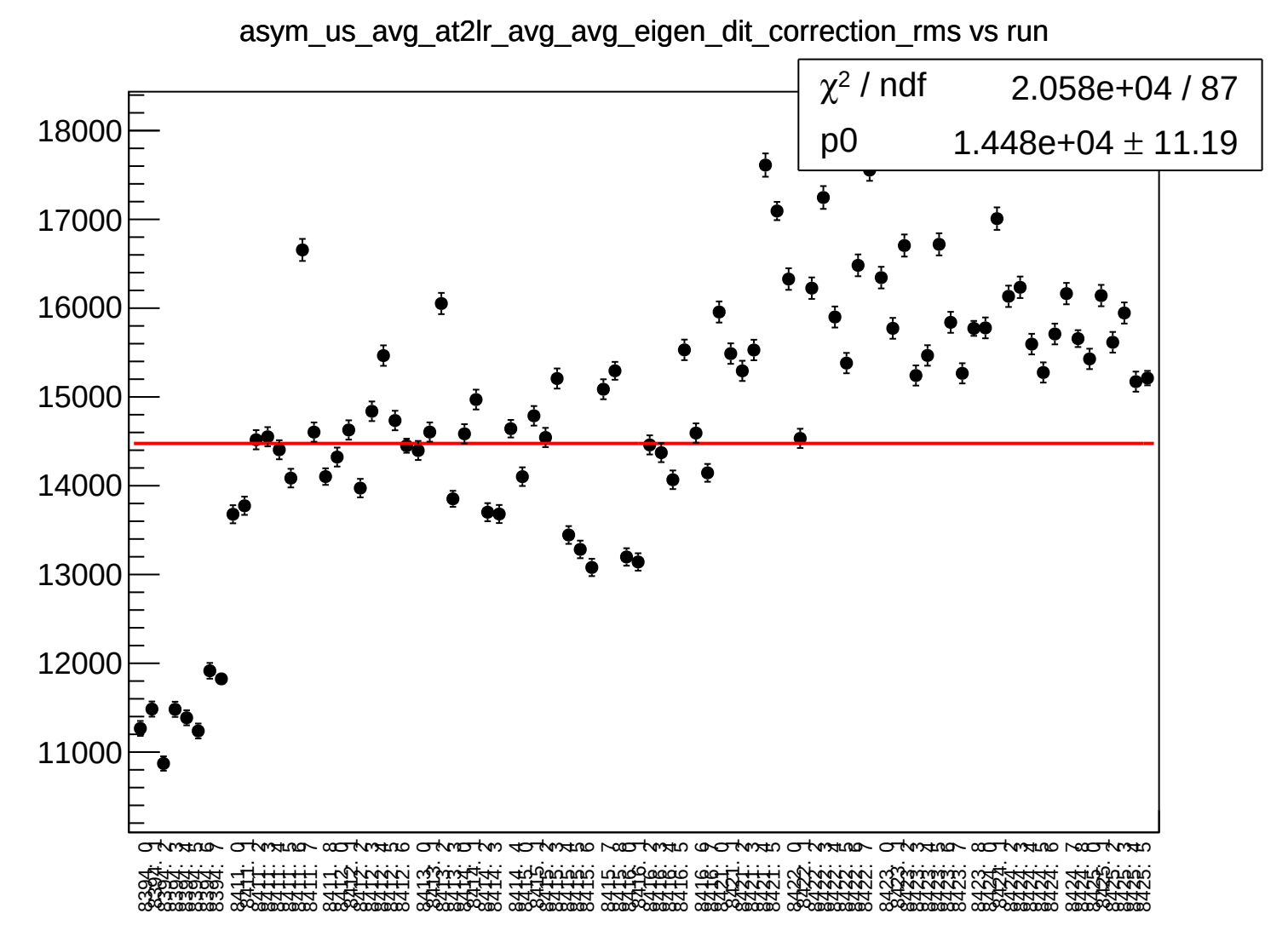

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 83.5 / 87
p0 −4784 ± 2435
pull
Entries 88
Mean 402
Std Dev 0

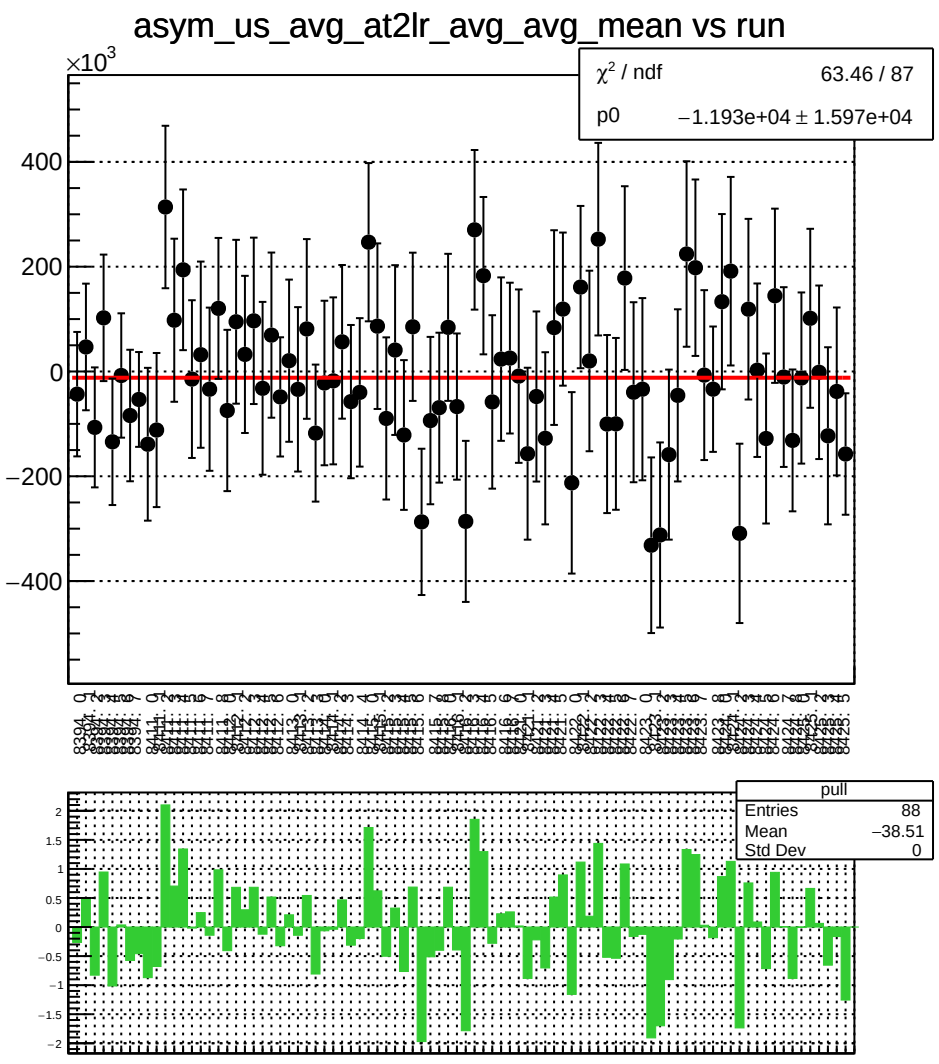

pull1D
Entries 88
Mean 0.005455
Std Dev 0.9741

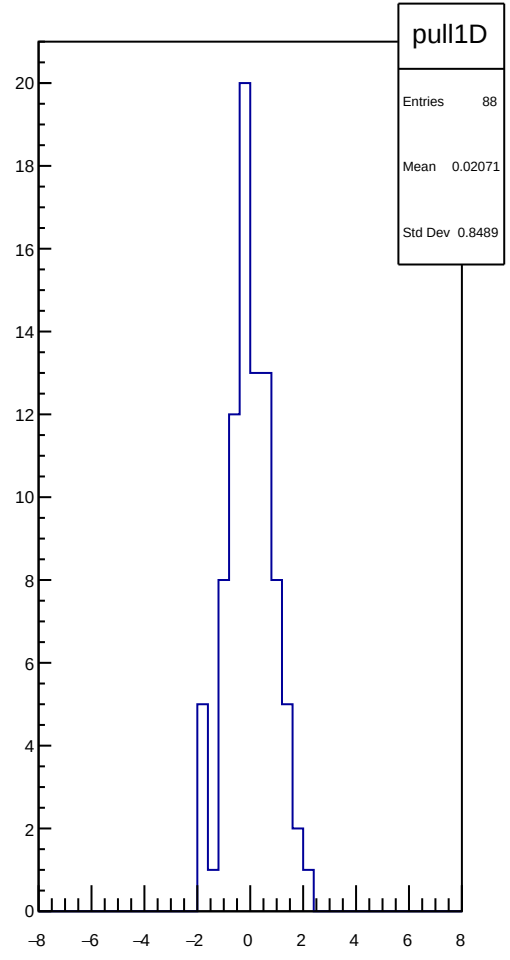

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 133.2 / 87
p0 2241 ± 1.722
2320
2300
2280
2260
2240
2220
2200
2180

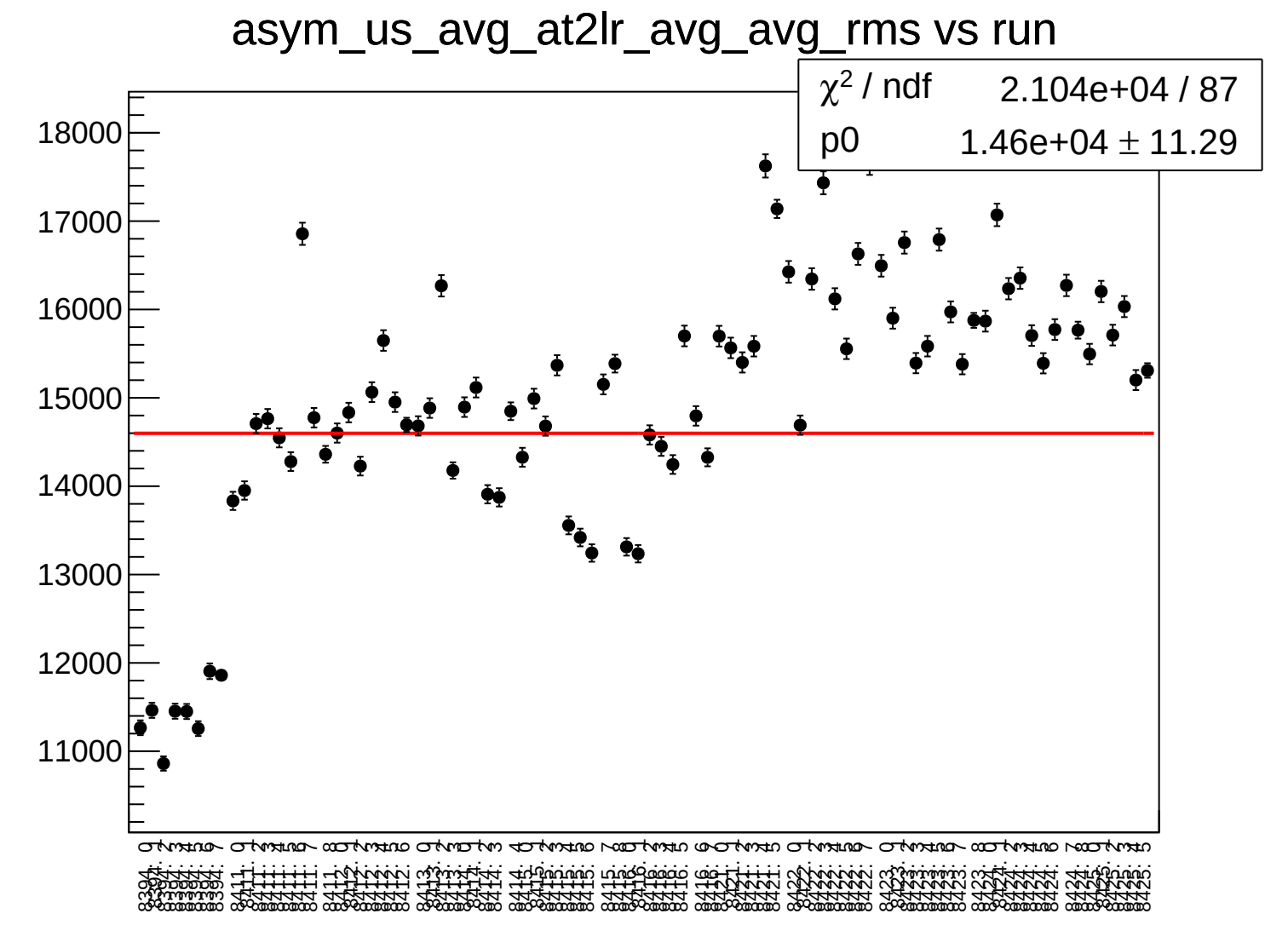

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 65.27 / 87
p0 6478 ± 1.583e+04
pull
Entries 88
Mean −67.58
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

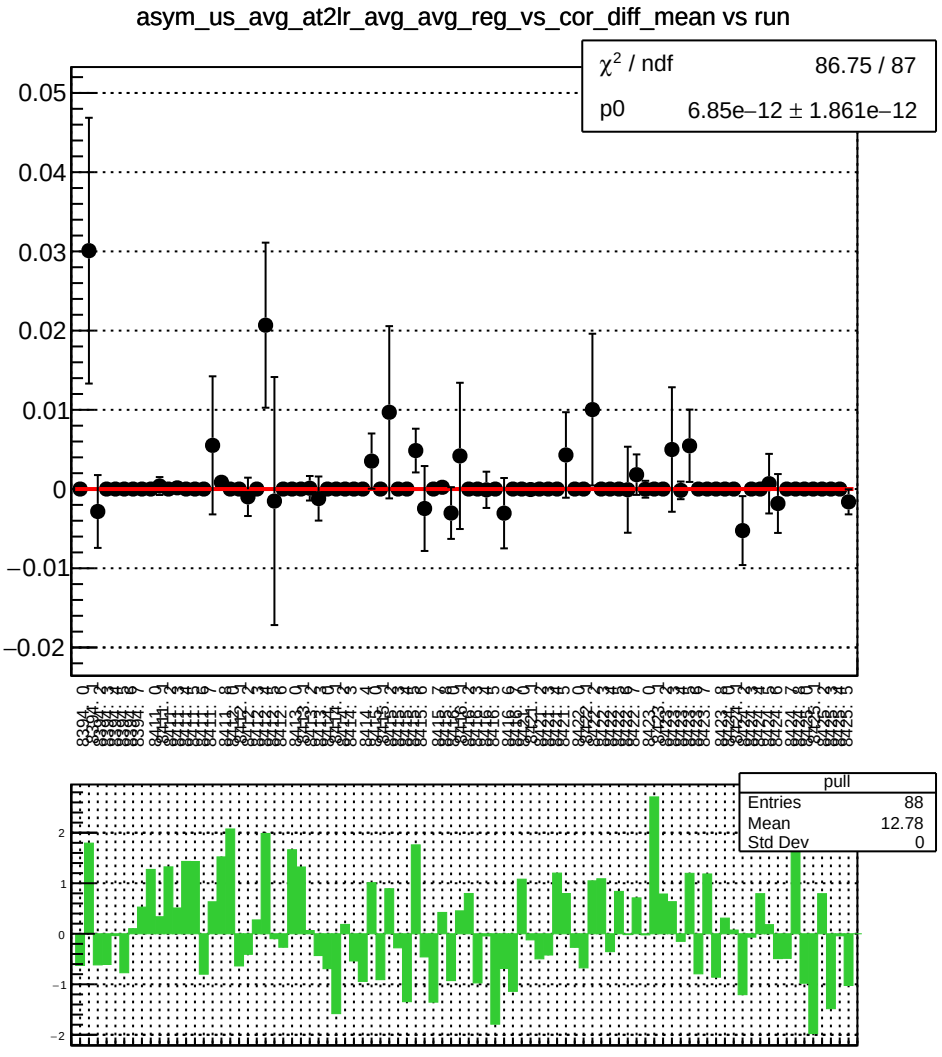

pull1D
Entries 88
Mean −0.01806
Std Dev 0.861
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

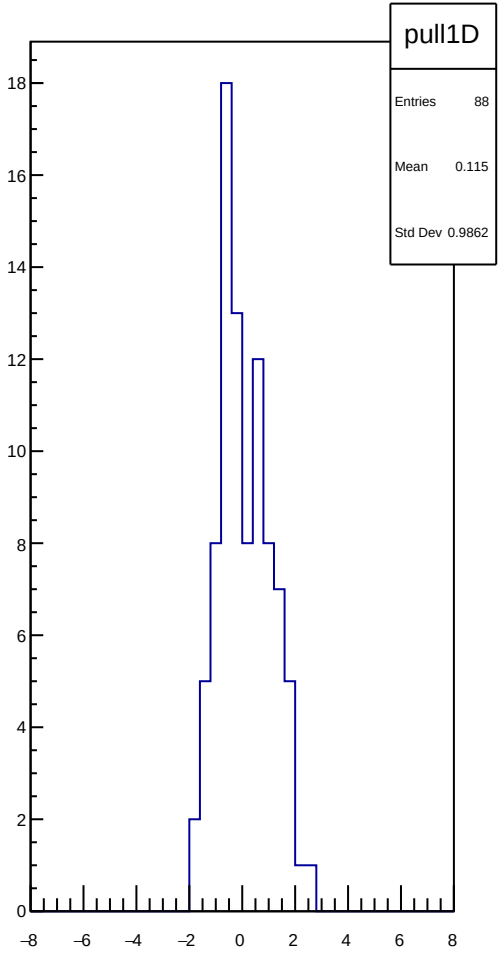

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.058e+04 / 87
p0 1.448e+04 ± 11.19
18000
17000
16000
15000
14000
13000
12000
11000

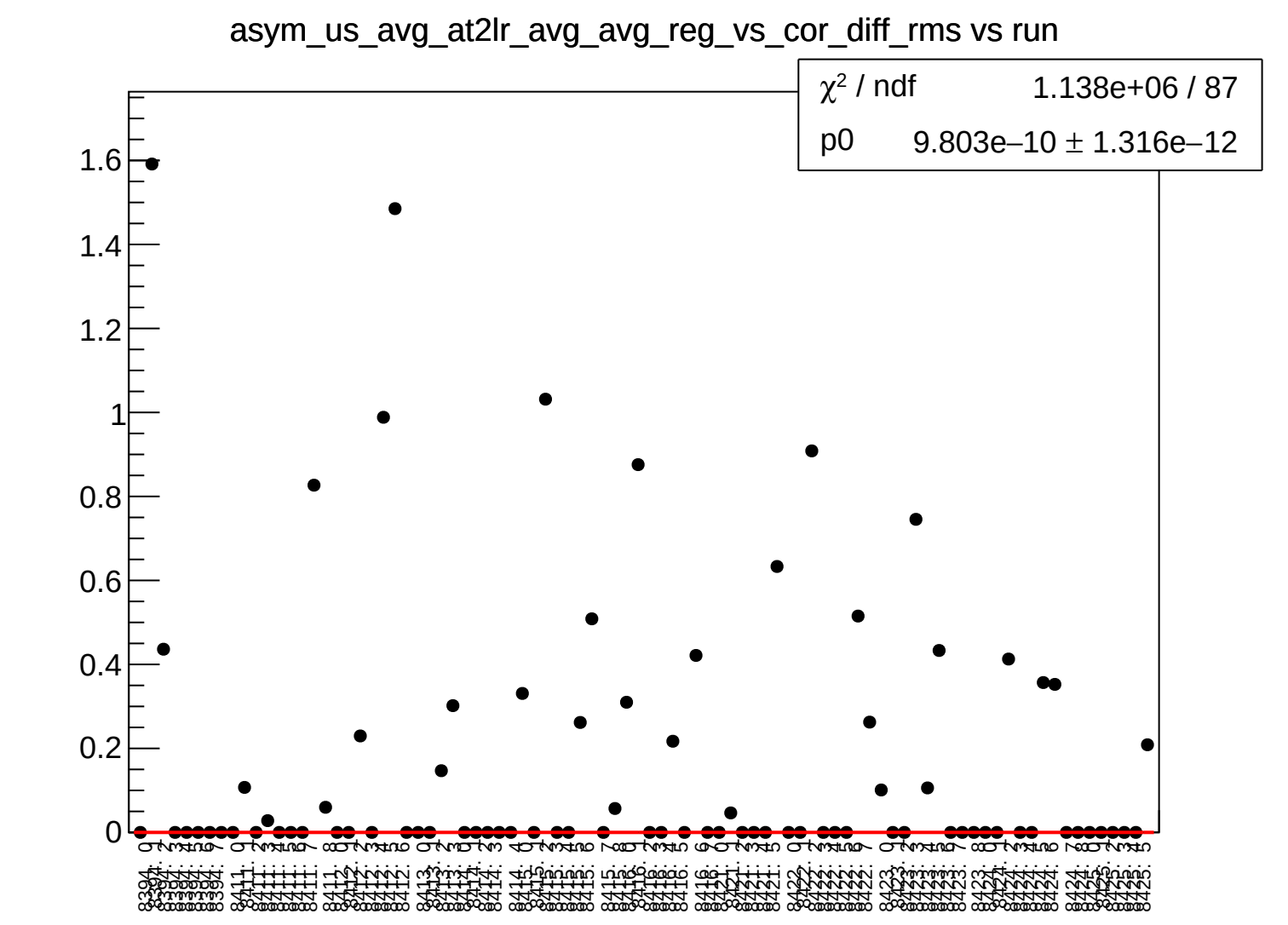

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 63.46 / 87
p0 −1.193e+04 ± 1.597e+04
400
200
0
−200
−400
pull
Entries 88
Mean −38.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

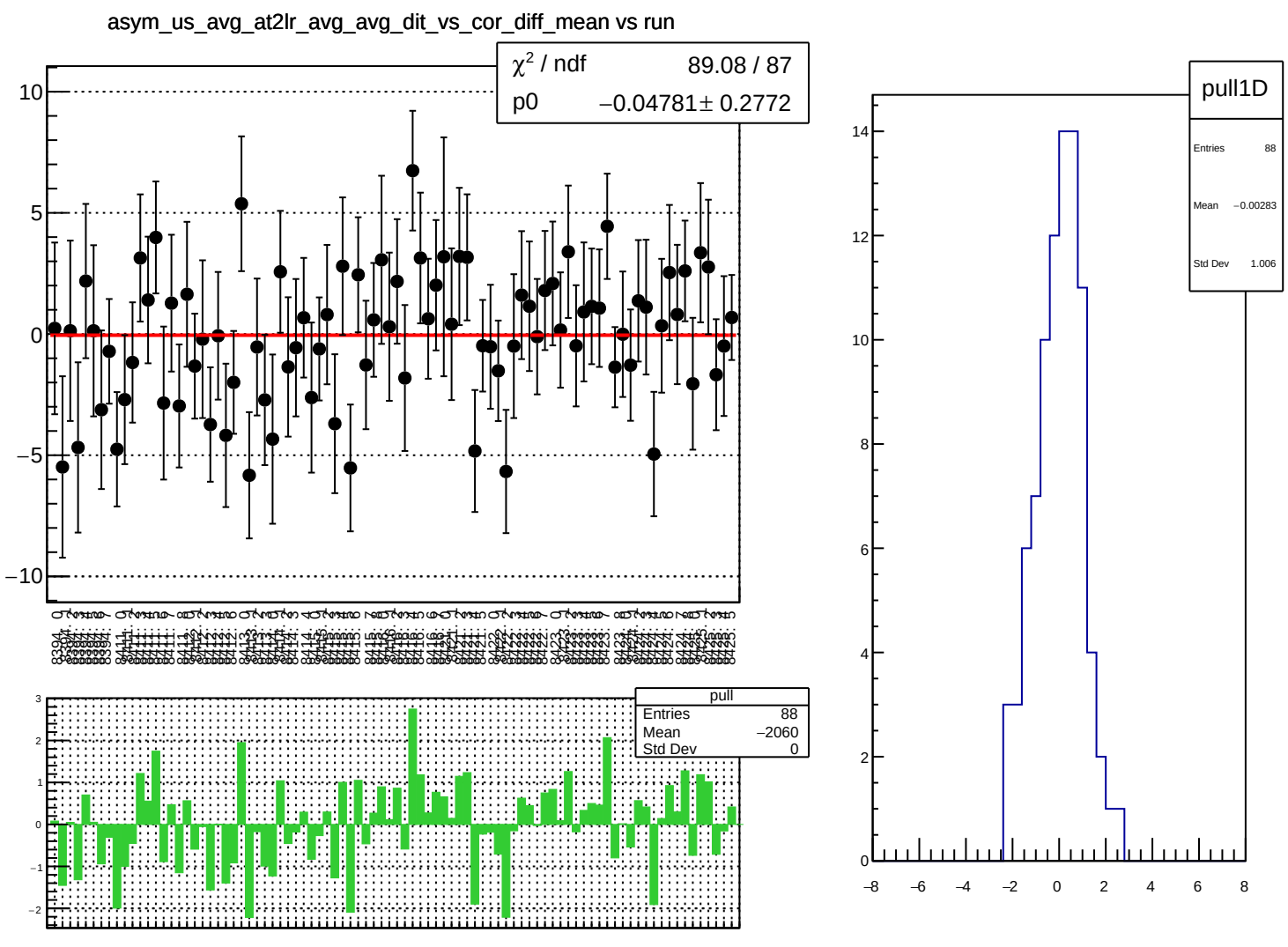

pull1D
Entries 88
Mean 0.02071
Std Dev 0.8489
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

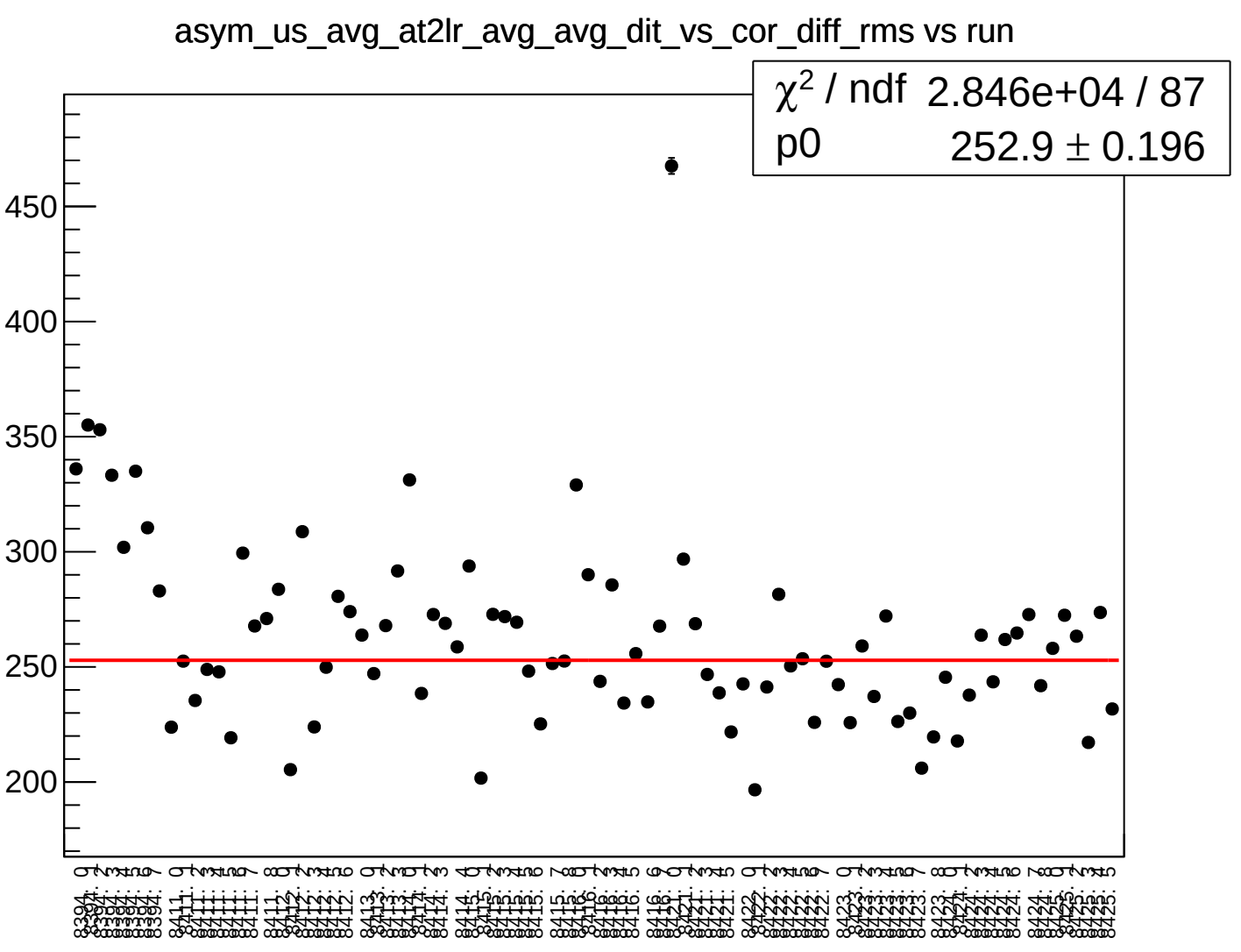

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 2.104e+04 / 87
p0 1.46e+04 ± 11.29
18000
17000
16000
15000
14000
13000
12000
11000

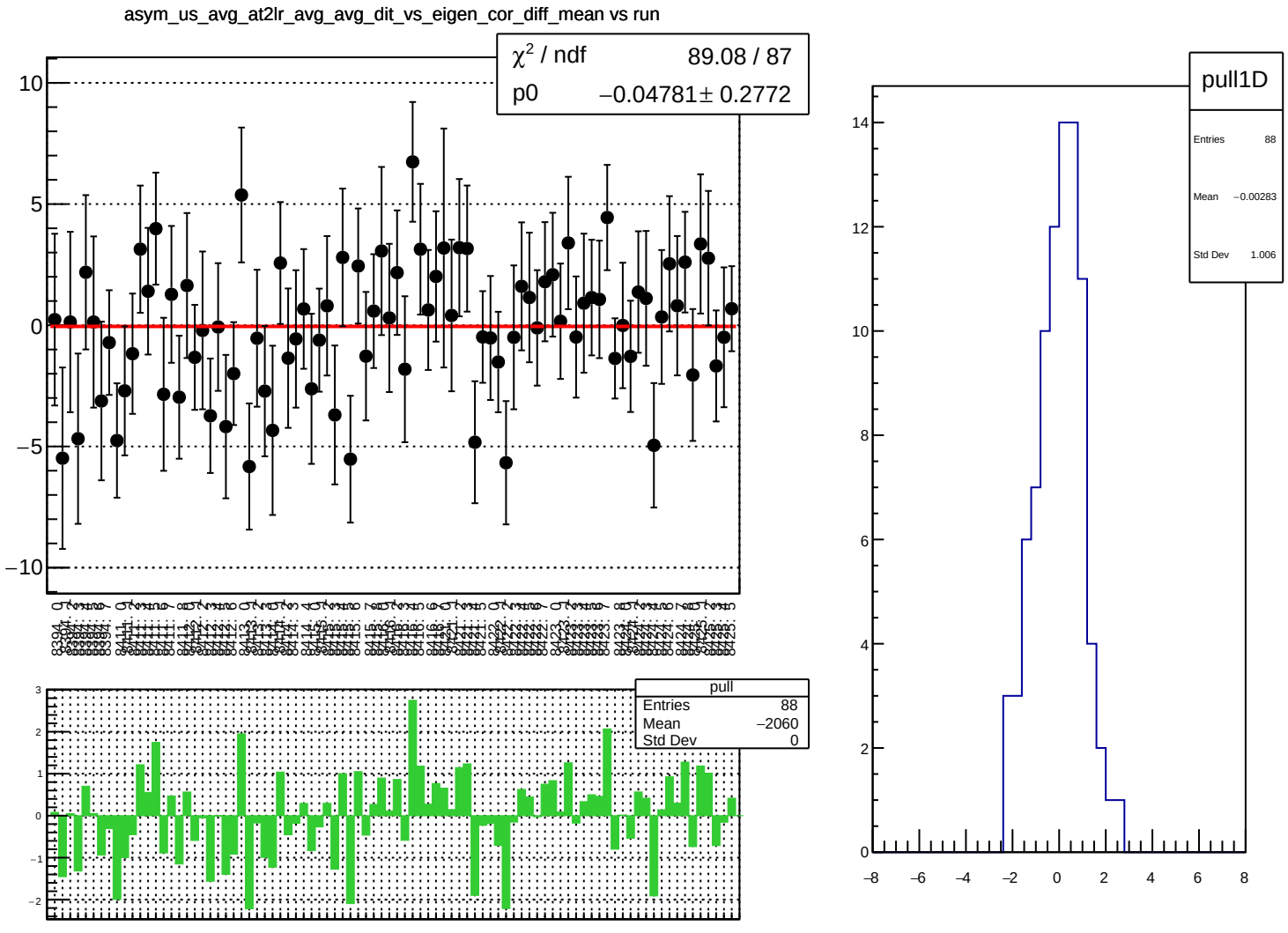

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.75 / 87
p0 6.85e−12 ± 1.861e−12
pull
Entries 88
Mean 12.78
Std Dev 0

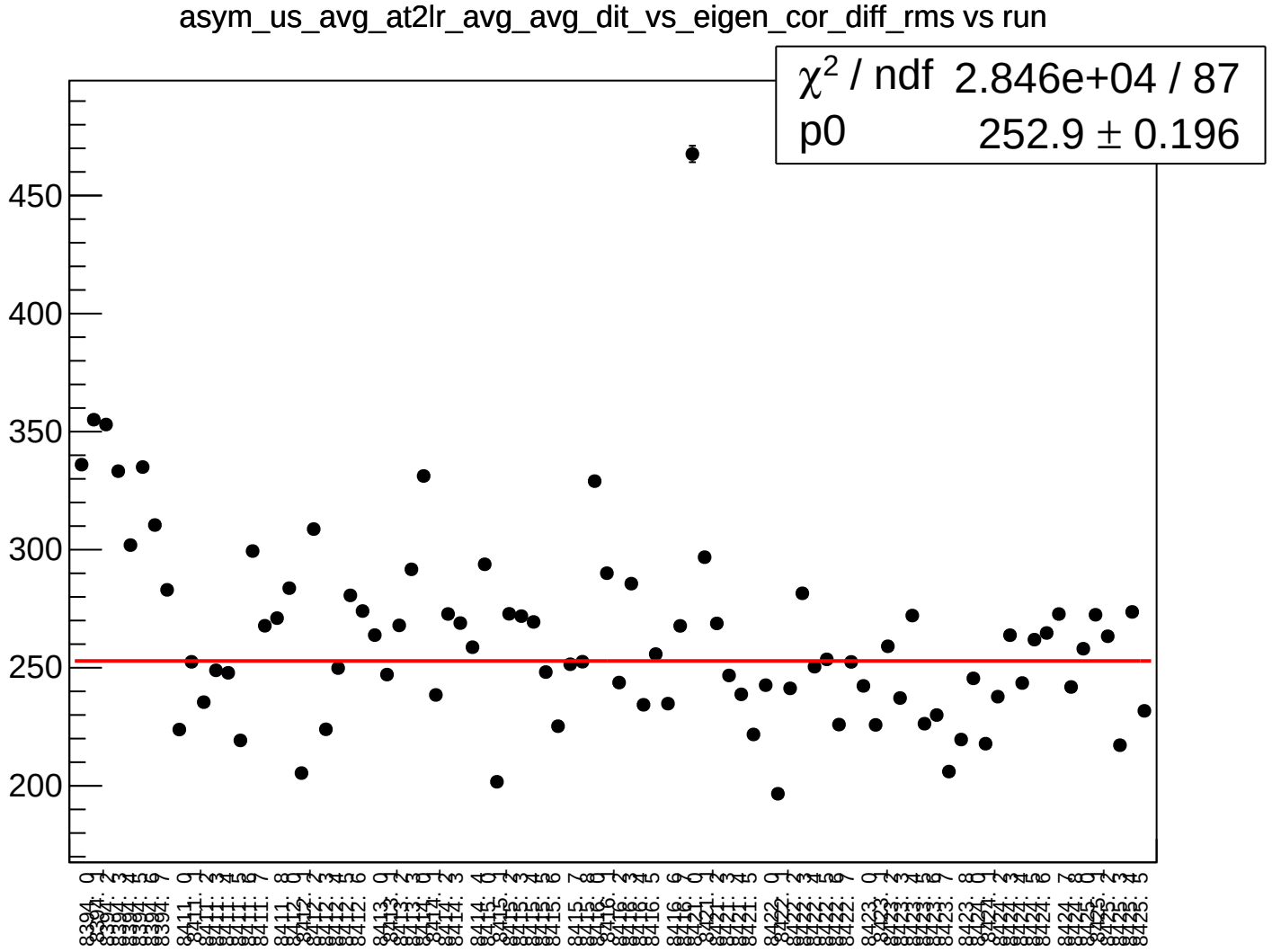

pull1D
Entries 88
Mean 0.115
Std Dev 0.9862

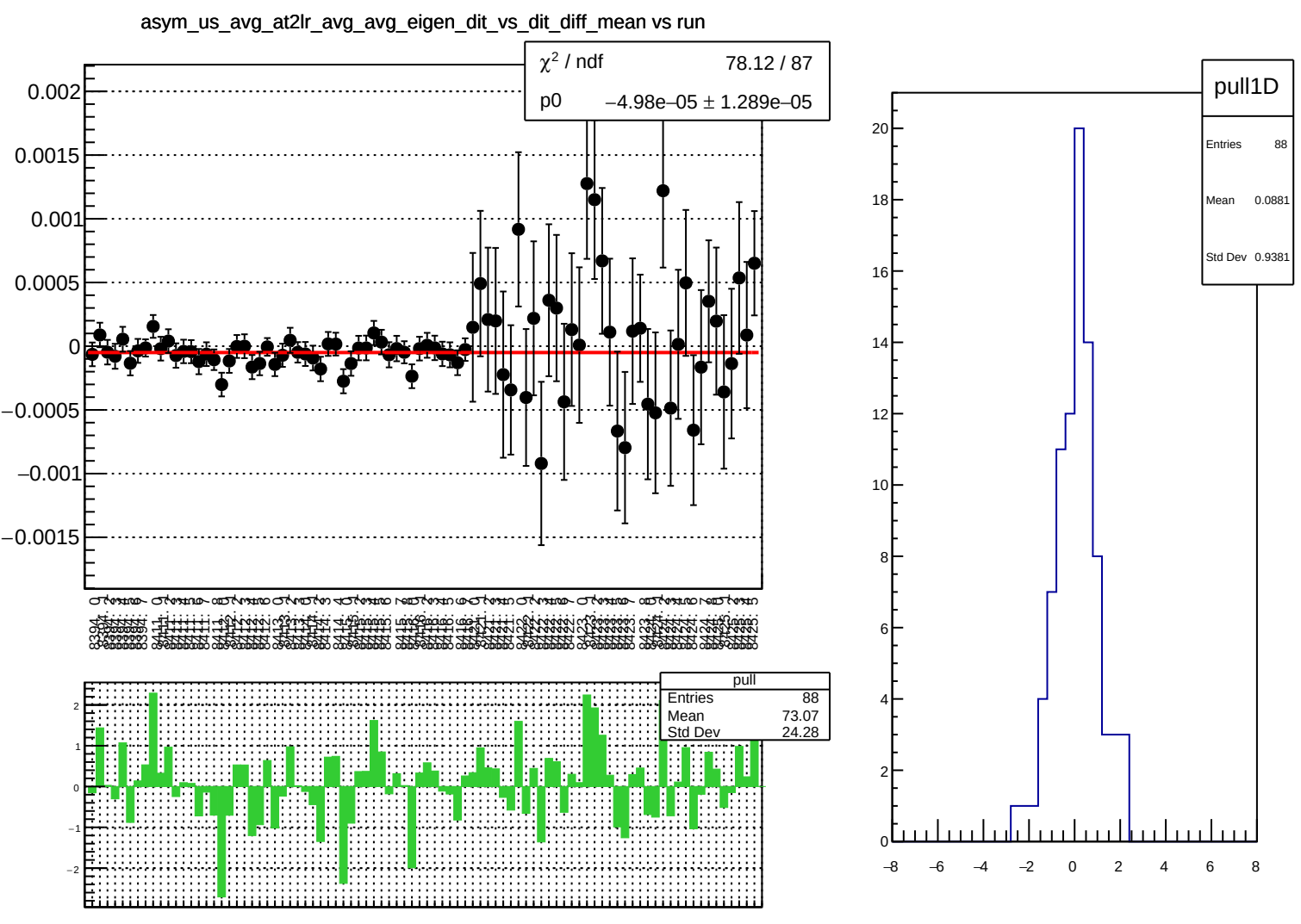

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.138e+06 / 87
p0 9.803e−10 ± 1.316e−12
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

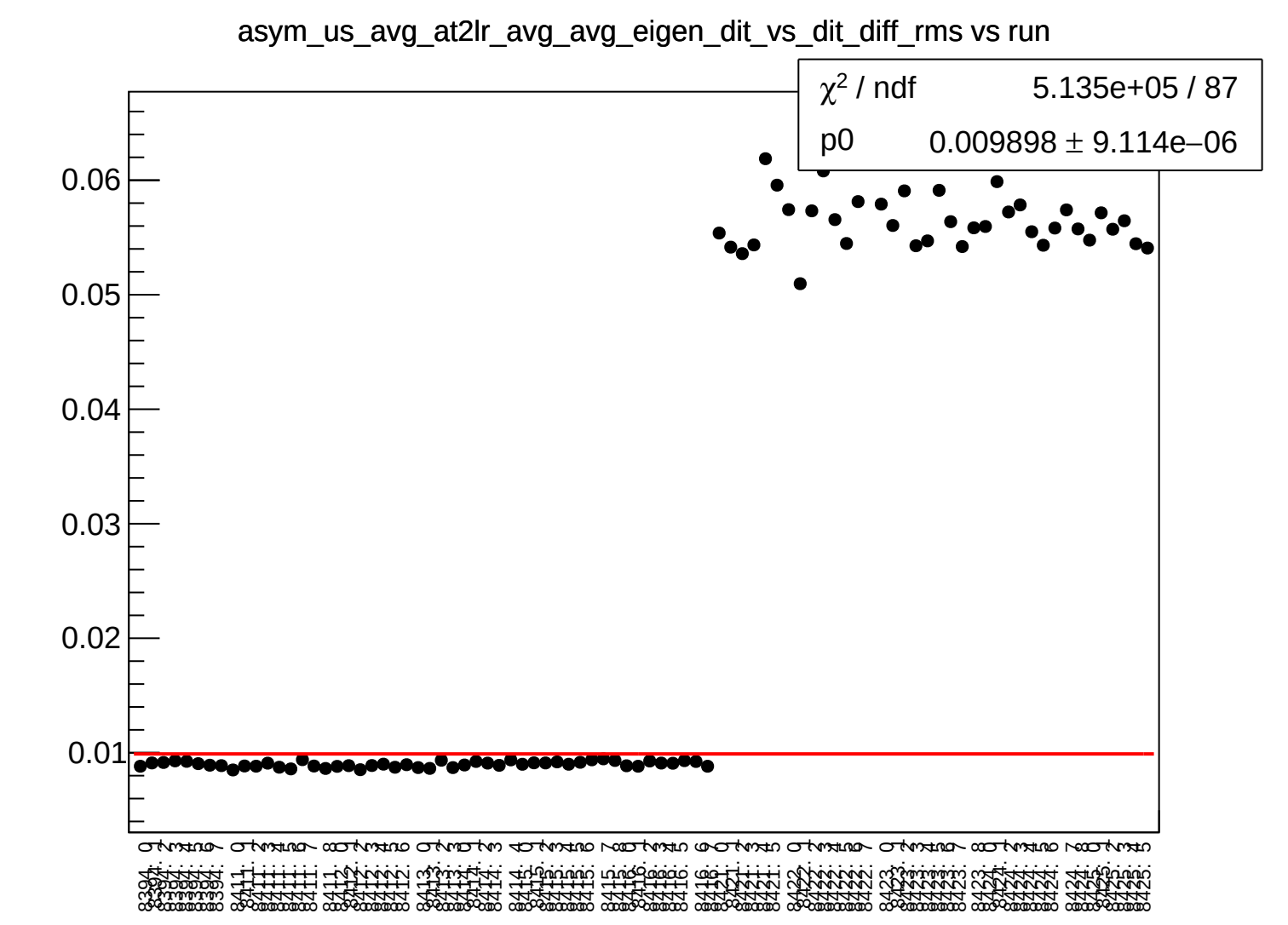

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.08 / 87
p0 −0.04781± 0.2772
pull
Entries 88
Mean −2060
Std Dev 0
pull1D
Entries 88
Mean −0.00283
Std Dev 1.006

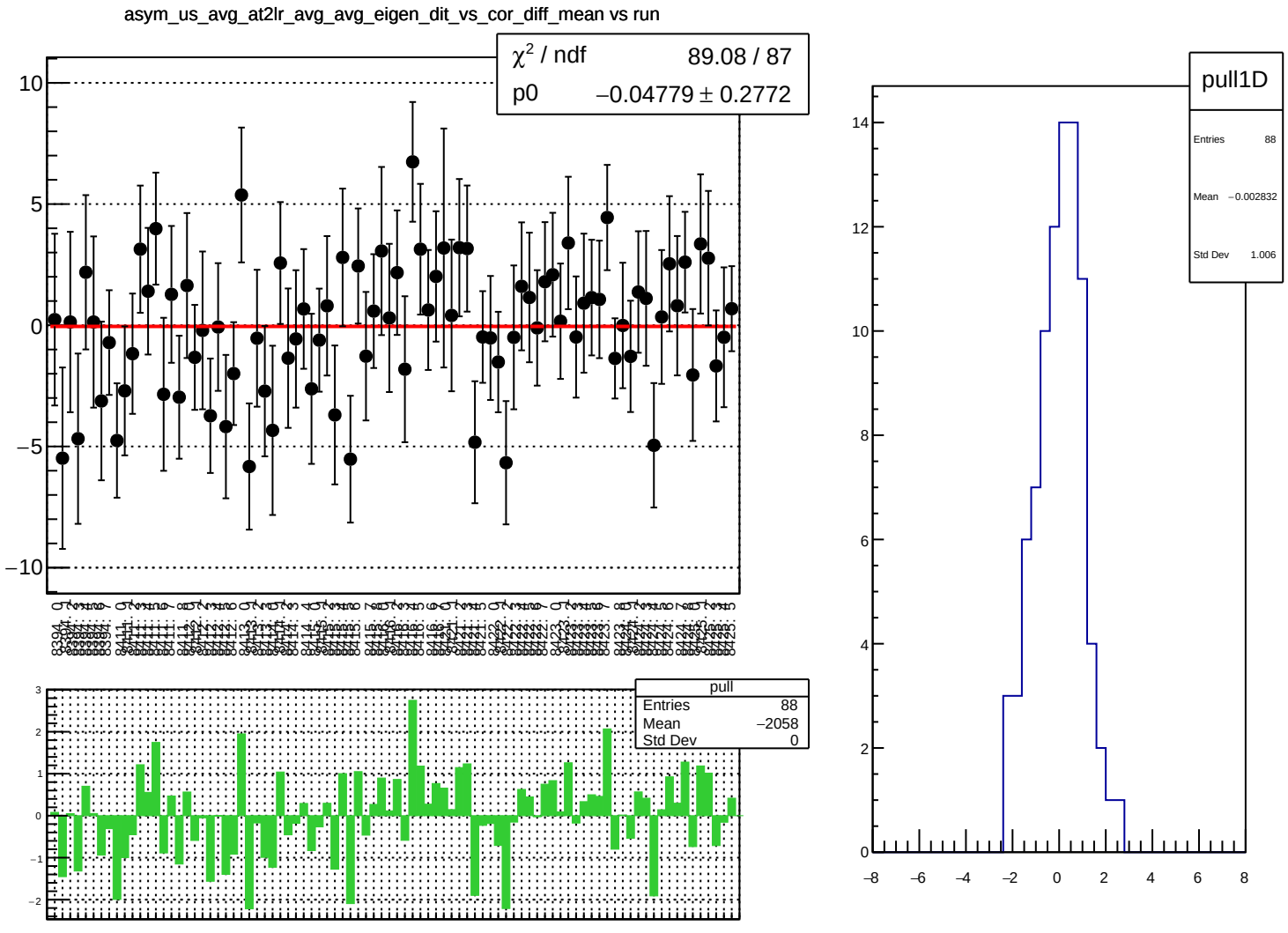

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.846e+04 / 87
p0 252.9 ± 0.196
450
400
350
300
250
200

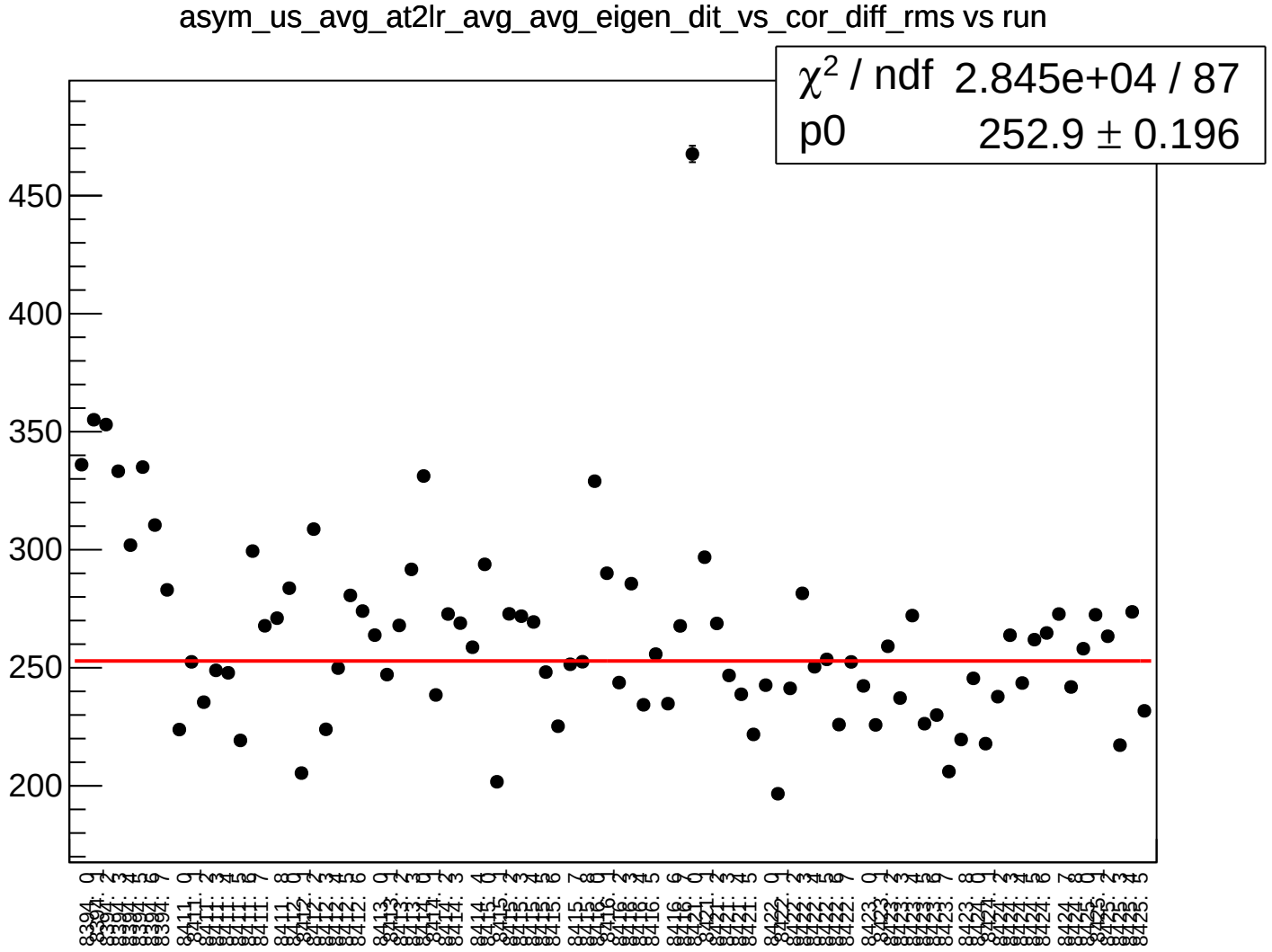

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.08 / 87
p0 −0.04781 ± 0.2772
pull
Entries 88
Mean −2060
Std Dev 0
pull1D
Entries 88
Mean −0.00283
Std Dev 1.006

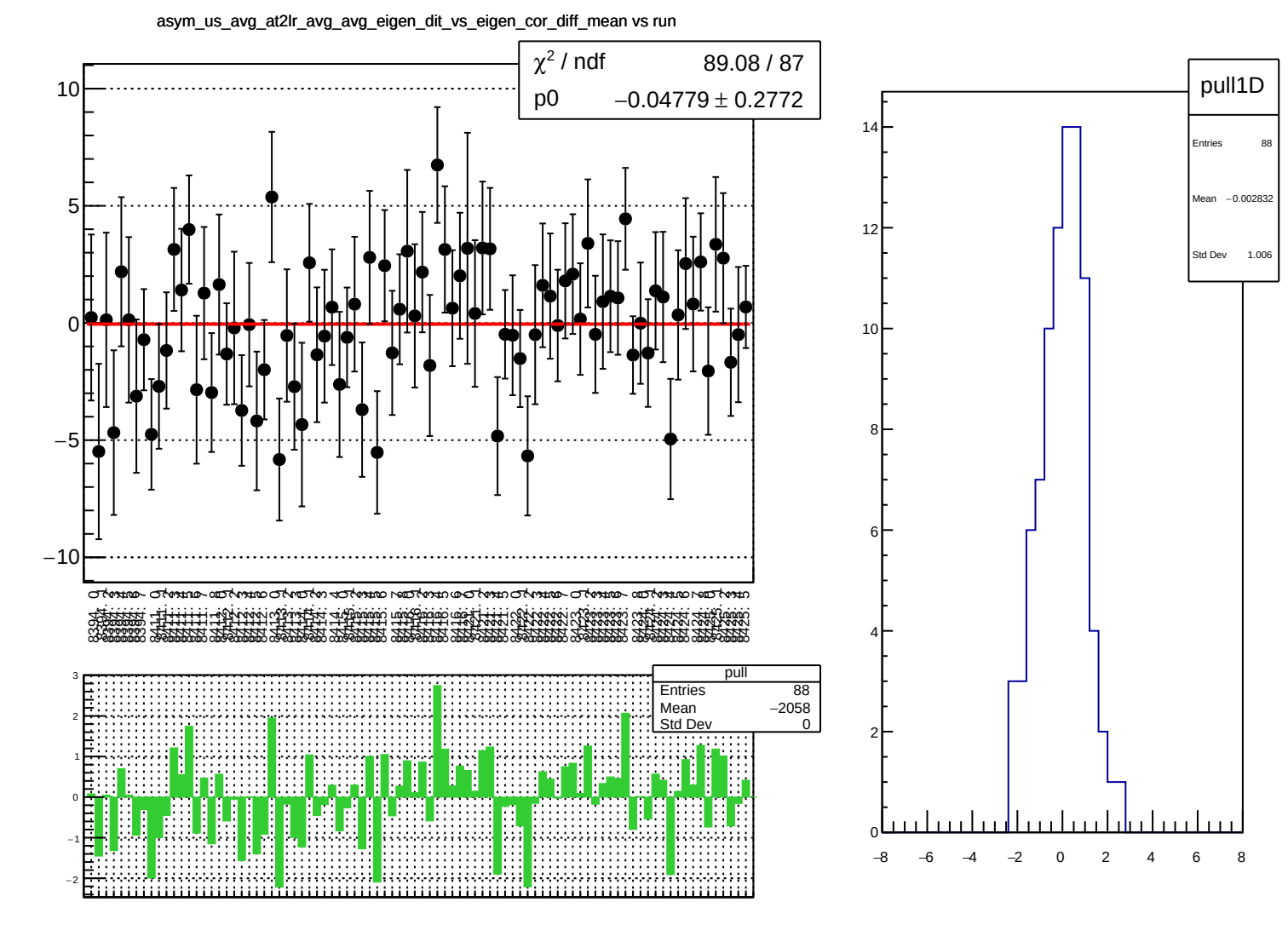

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.846e+04 / 87
p0 252.9 ± 0.196
450
400
350
300
250
200

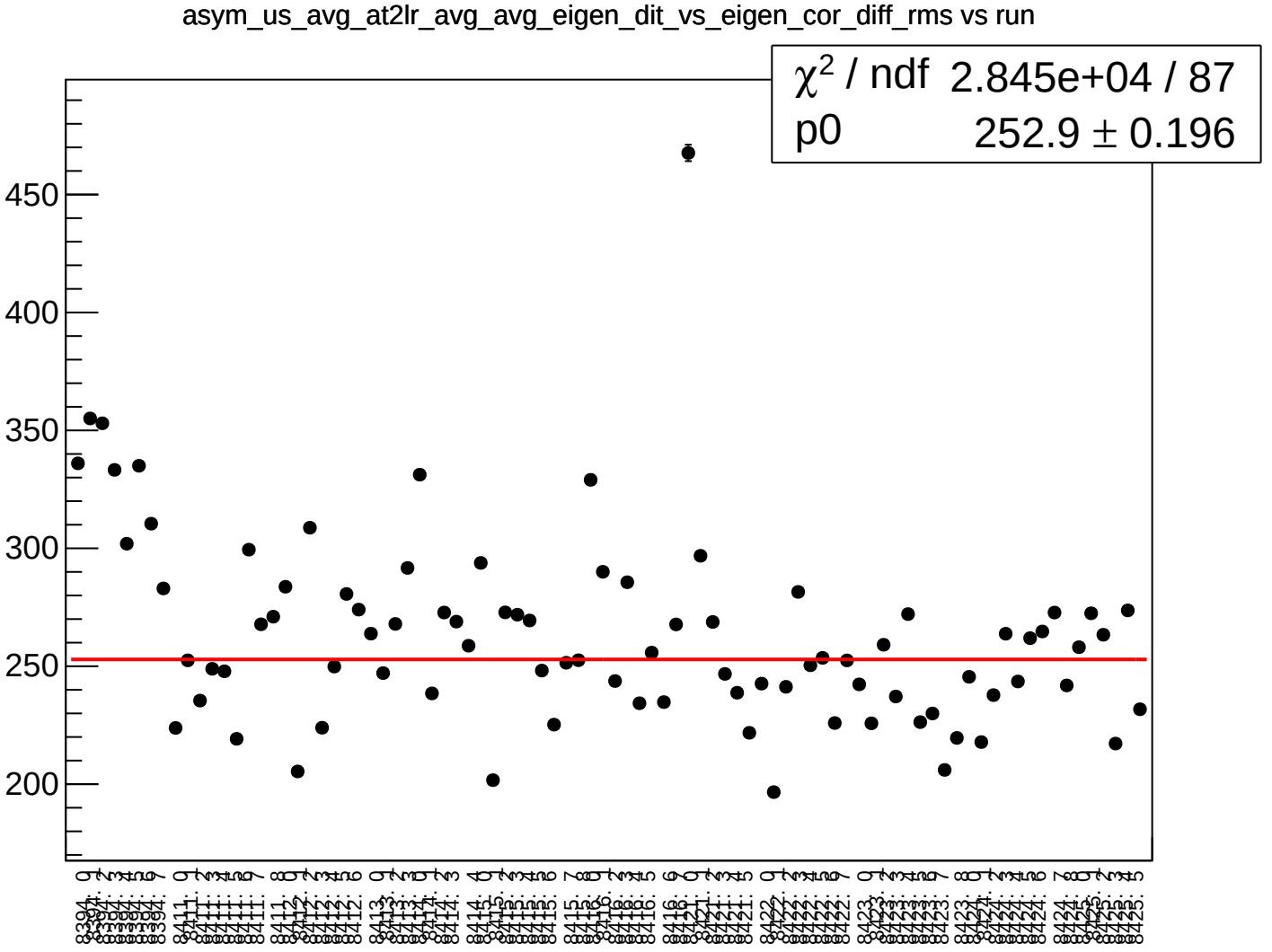

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 78.12 / 87
p0 −4.98e−05 ± 1.289e−05
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 88
Mean 73.07
Std Dev 24.28
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.0881
Std Dev 0.9381
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

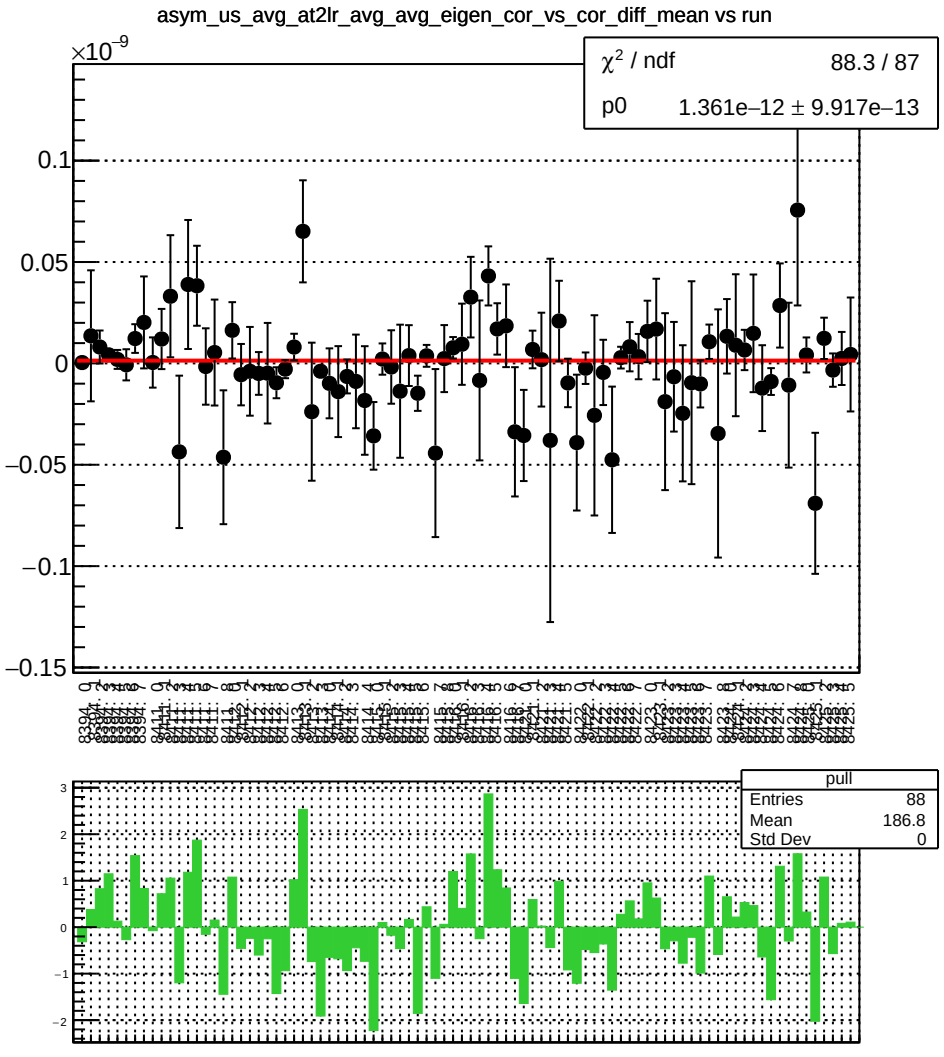

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.135e+05 / 87
p0 0.009898 ± 9.114e−06
0.06
0.05
0.04
0.03
0.02
0.01

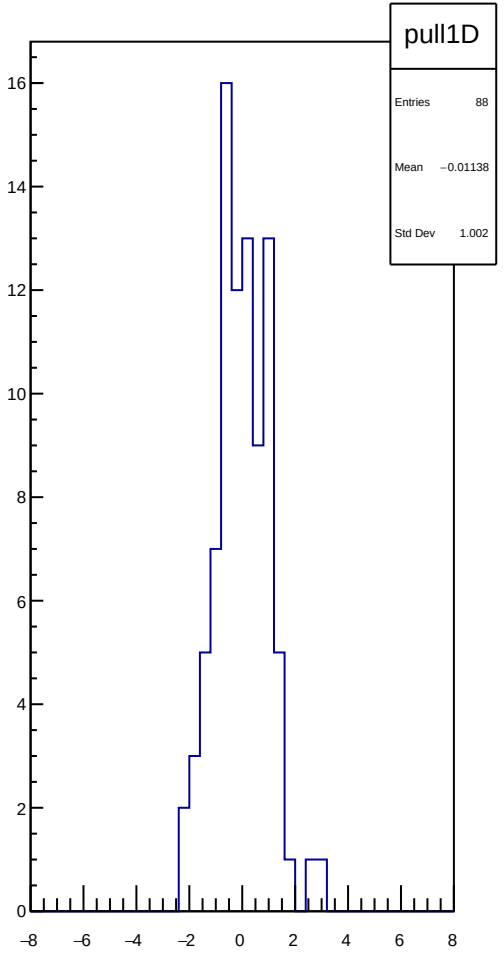

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.08 / 87
p0 −0.04779 ± 0.2772
pull
Entries 88
Mean −2058
Std Dev 0
pull1D
Entries 88
Mean −0.002832
Std Dev 1.006

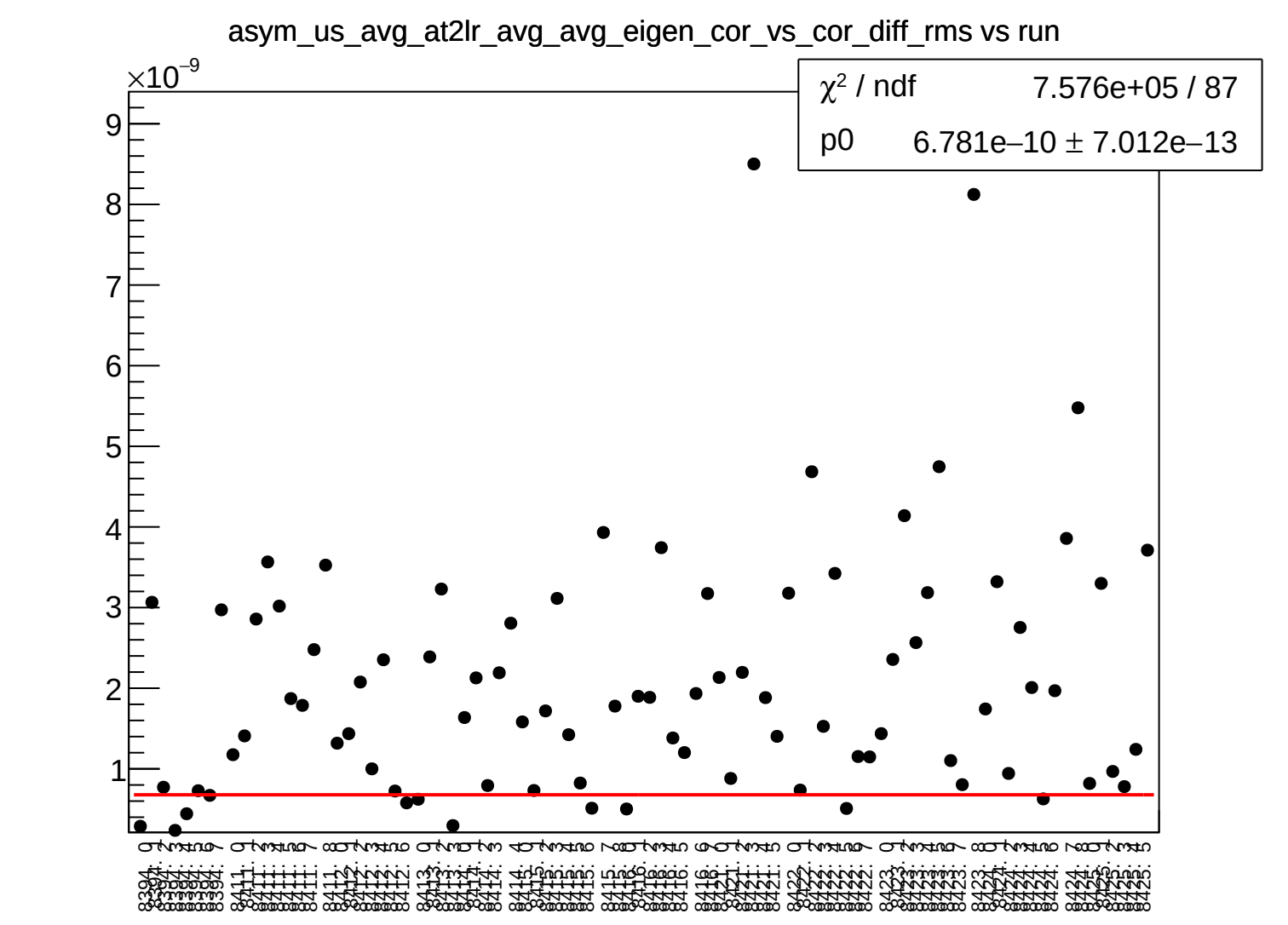

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.845e+04 / 87
p0 252.9 ± 0.196
450
400
350
300
250
200

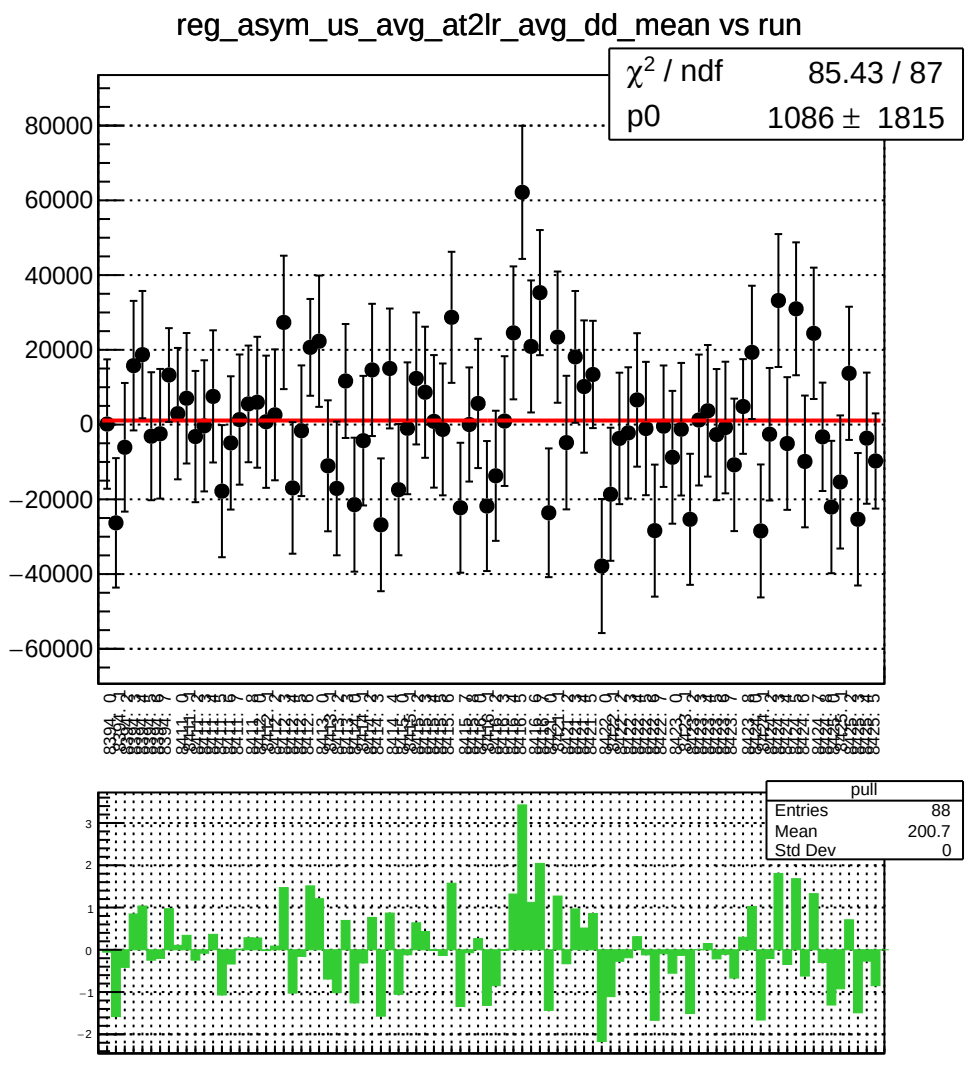

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.08 / 87
p0 −0.04779 ± 0.2772
pull
Entries 88
Mean −2058
Std Dev 0
pull1D
Entries 88
Mean −0.002832
Std Dev 1.006

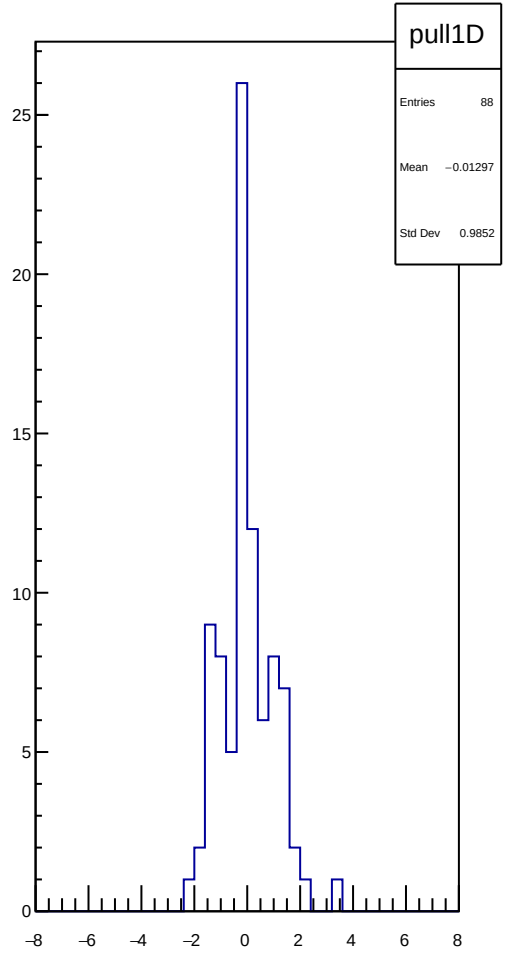

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.845e+04 / 87
p0 252.9 ± 0.196
450
400
350
300
250
200

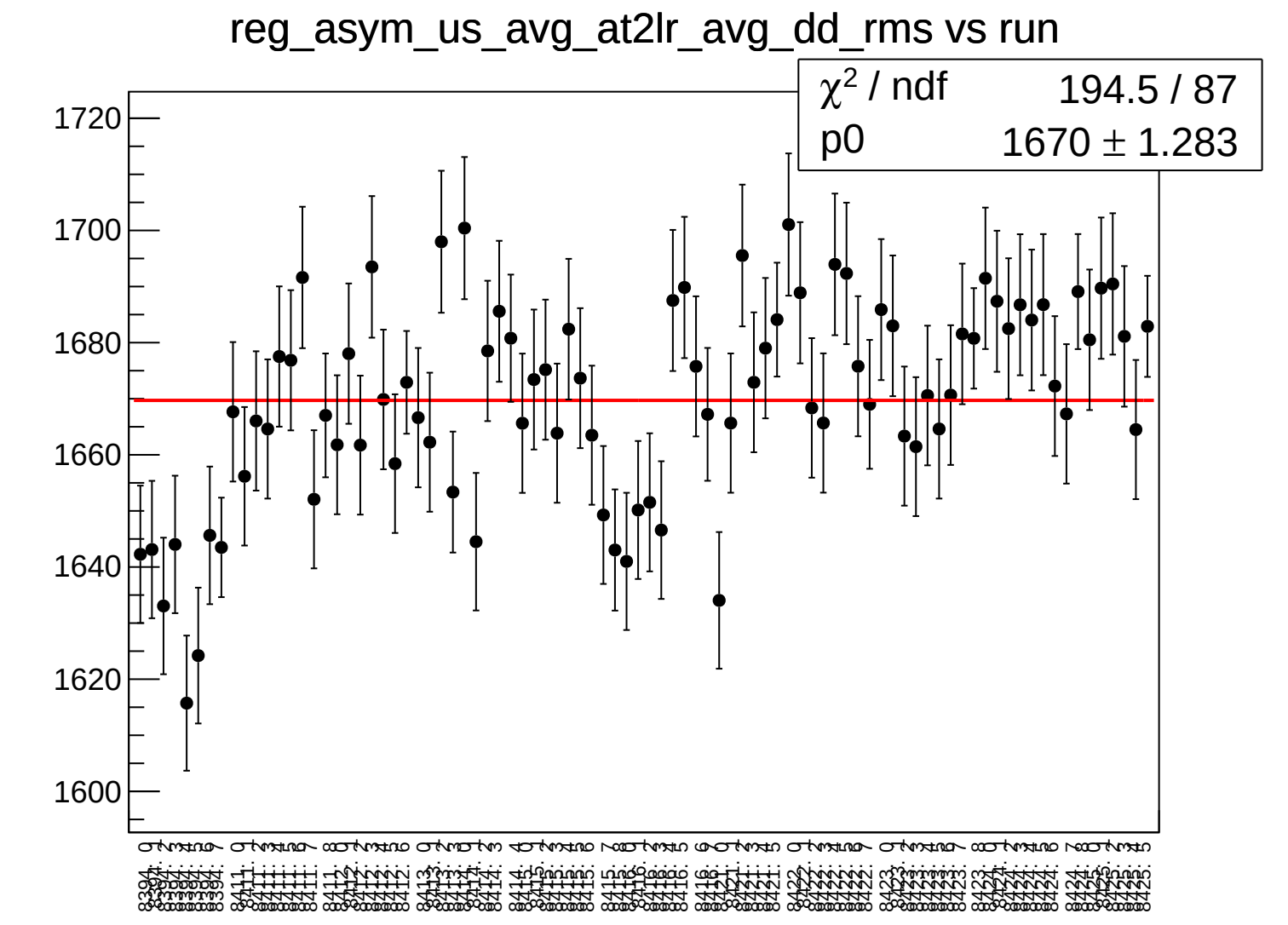

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 88.3 / 87
p0 1.361e−12 ± 9.917e−13
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 88
Mean 186.8
Std Dev 0
3
2
1
0
−1
−2

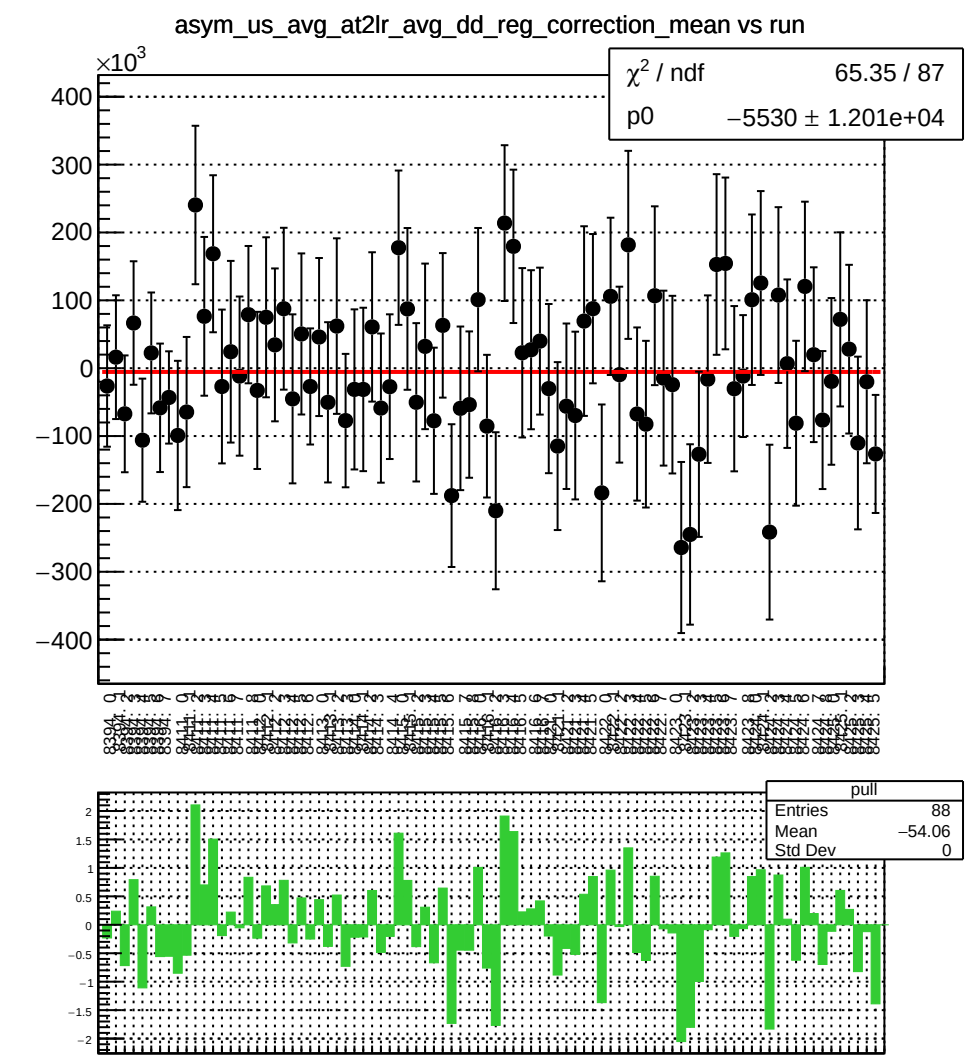

pull1D
Entries 88
Mean −0.01138
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

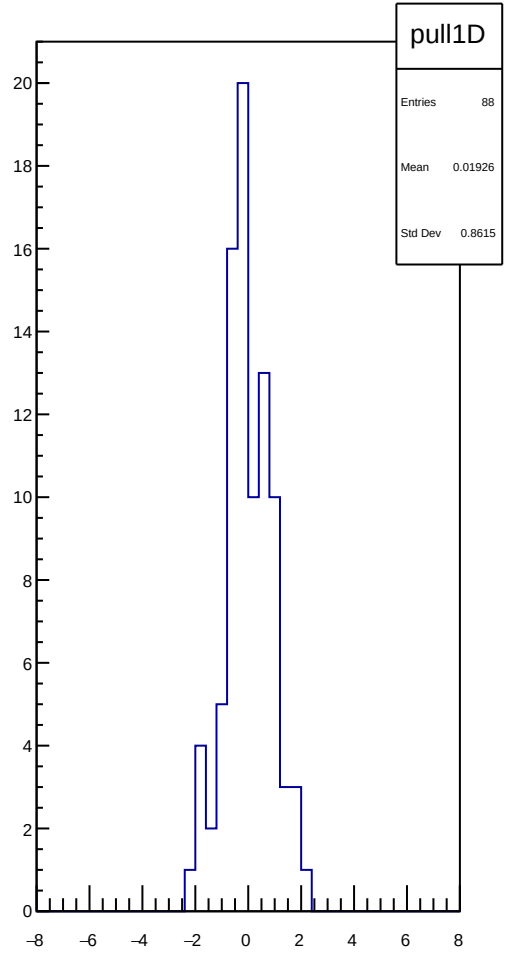

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.576e+05 / 87
p0 6.781e−10 ± 7.012e−13

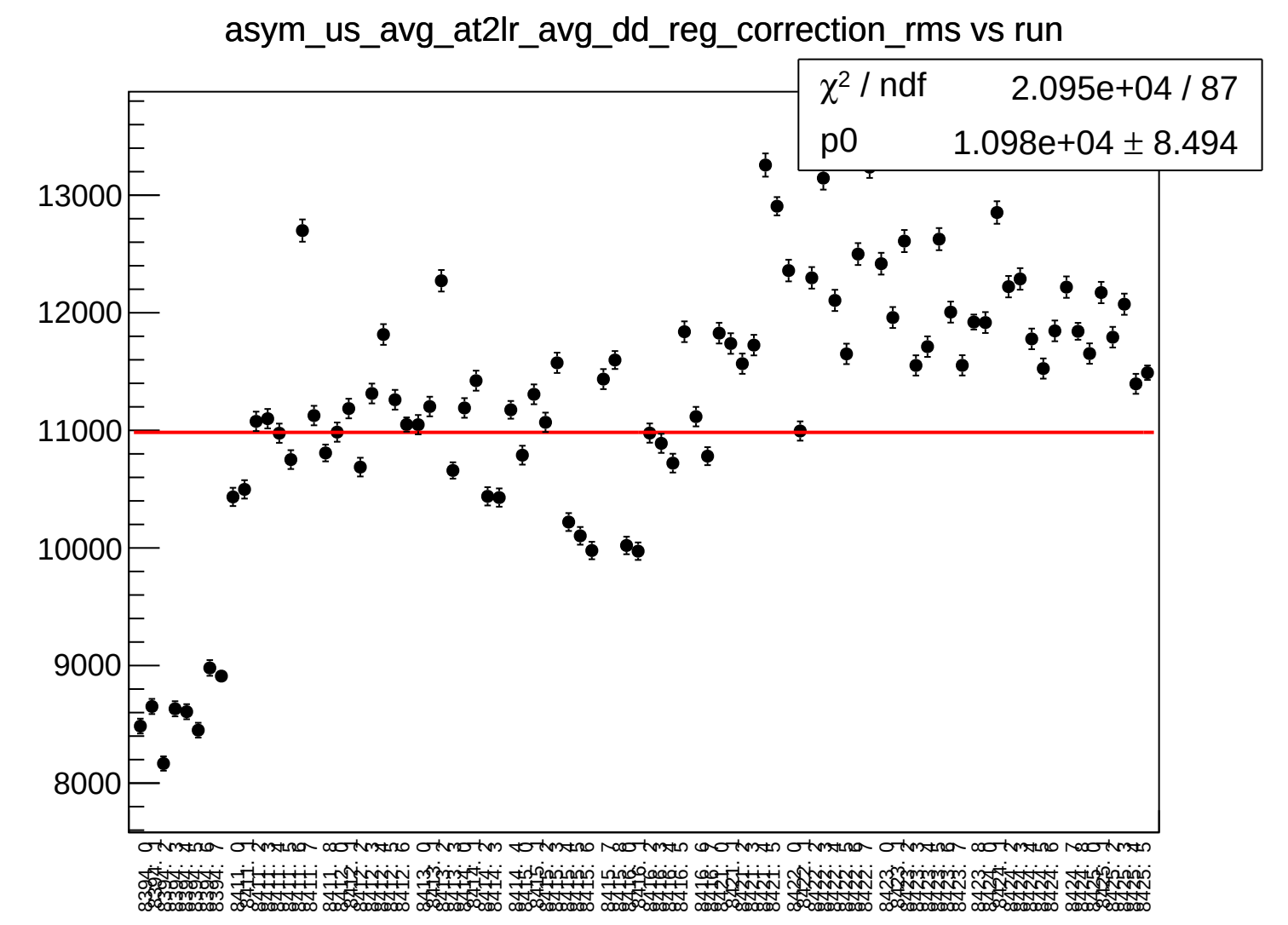

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 85.43 / 87
p0 1086 ± 1815
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 200.7
Std Dev 0
3
2
1
0
−1
−2

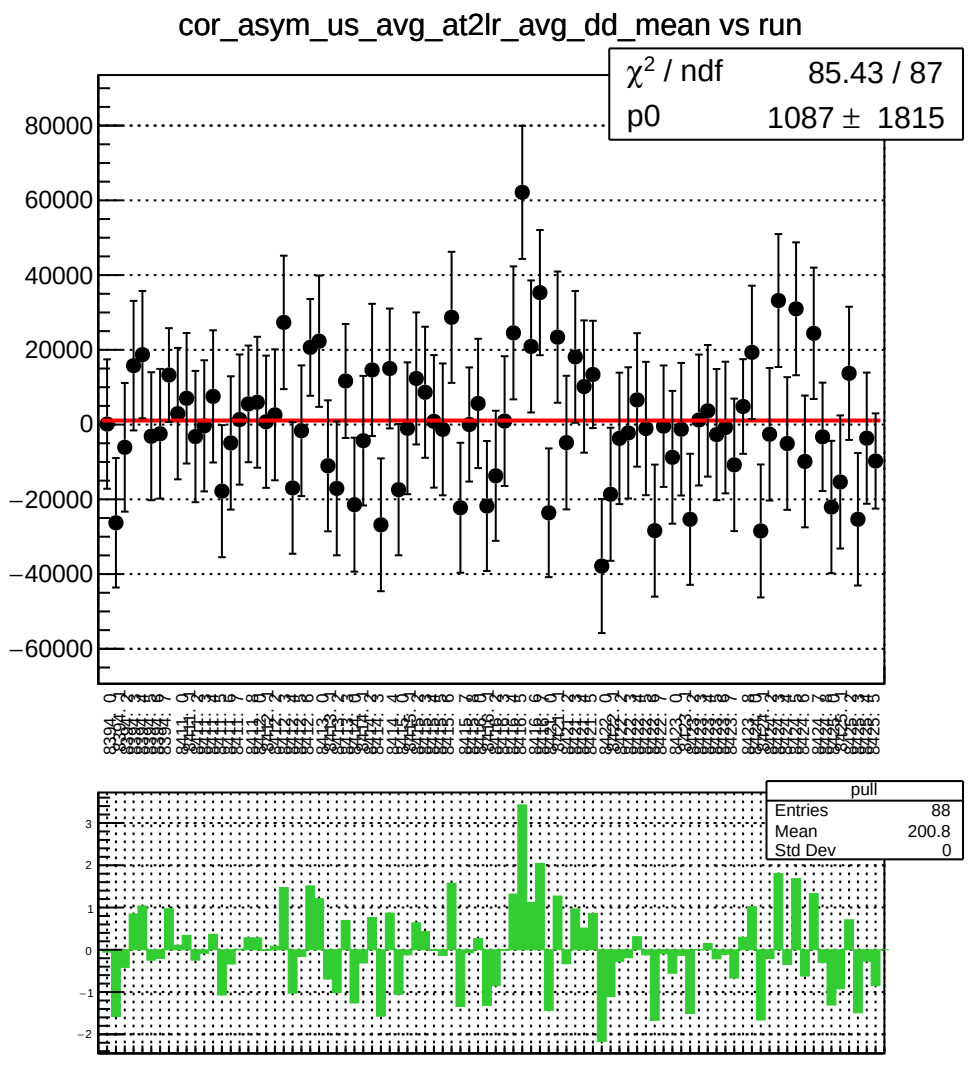

pull1D
Entries 88
Mean −0.01297
Std Dev 0.9852
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

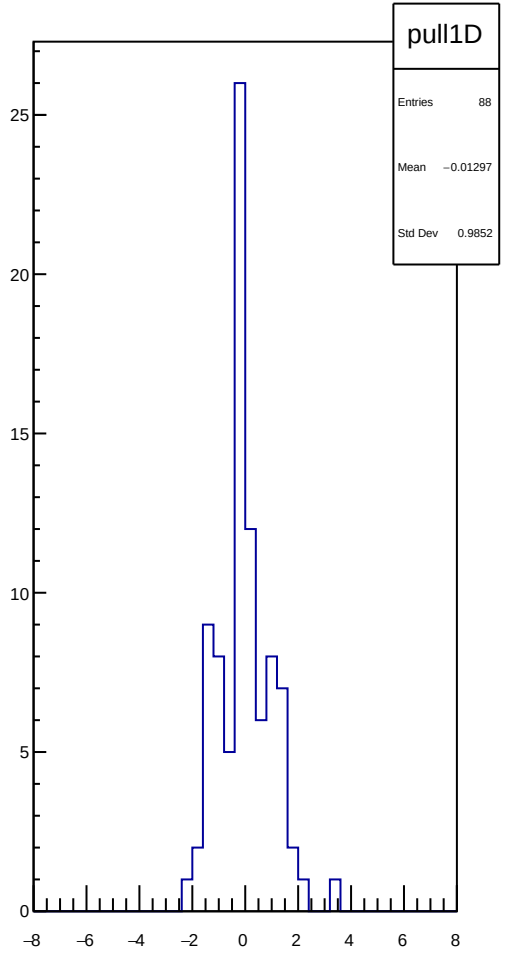

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 194.5 / 87
p0 1670 ± 1.283
1720
1700
1680
1660
1640
1620
1600

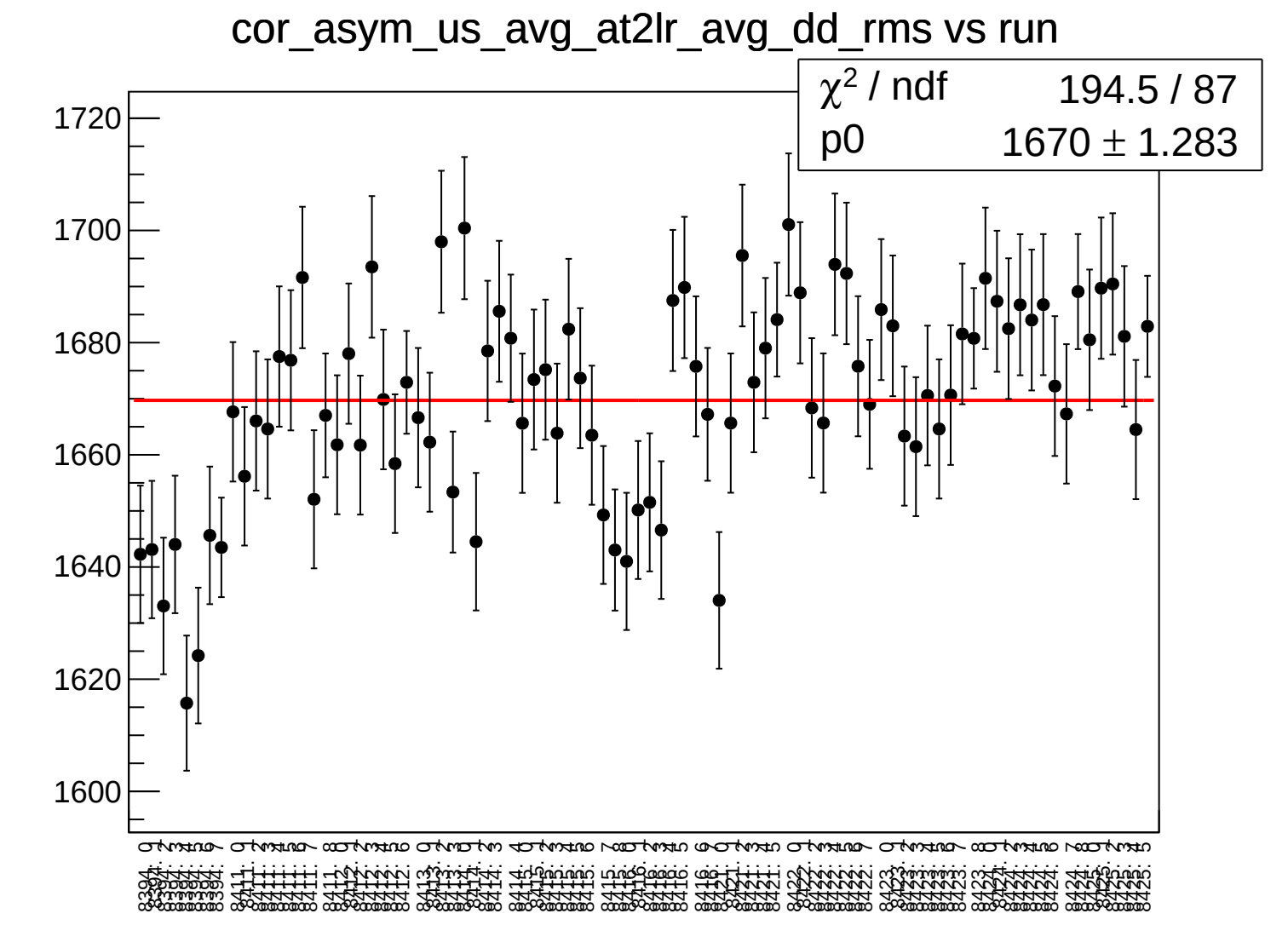

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 65.35 / 87
p0 −5530 ± 1.201e+04
pull
Entries 88
Mean −54.06
Std Dev 0

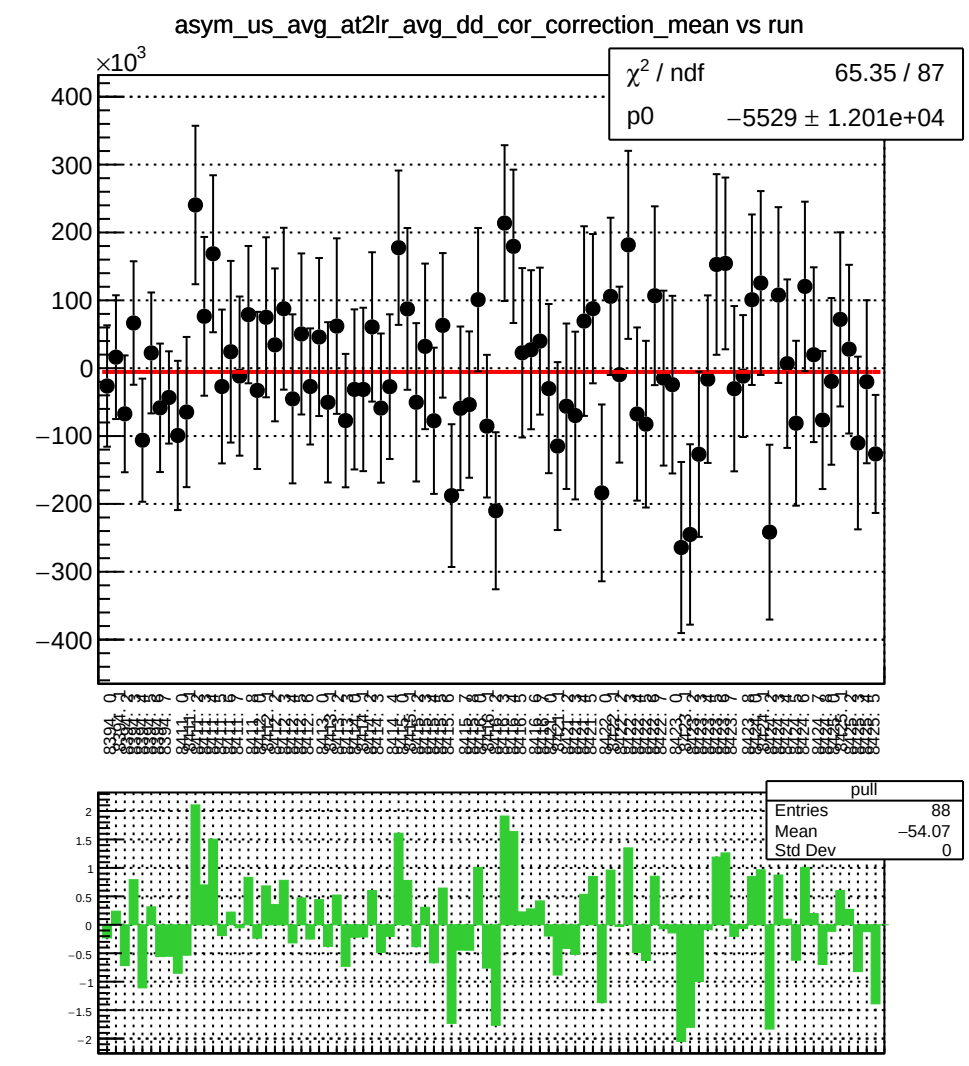

pull1D
Entries 88
Mean 0.01926
Std Dev 0.8615

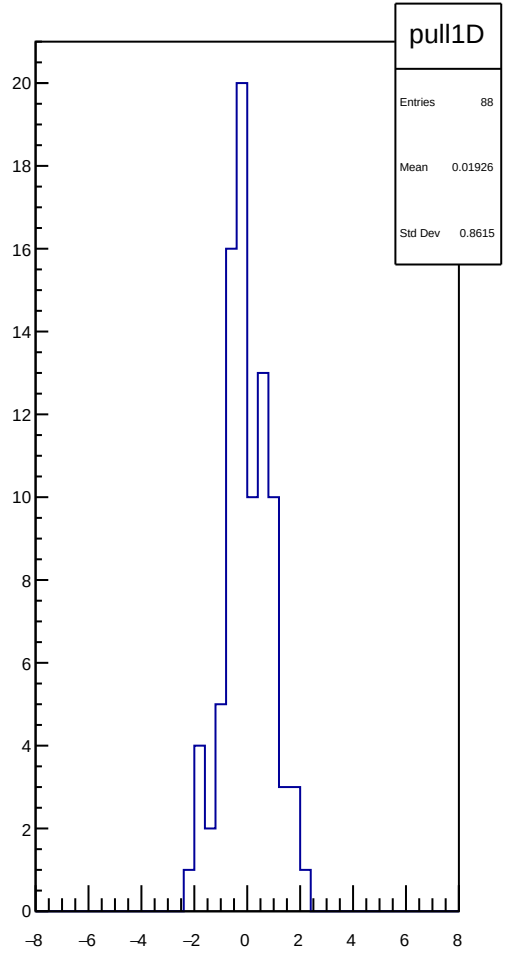

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 2.095e+04 / 87
p0 1.098e+04 ± 8.494
13000
12000
11000
10000
9000
8000

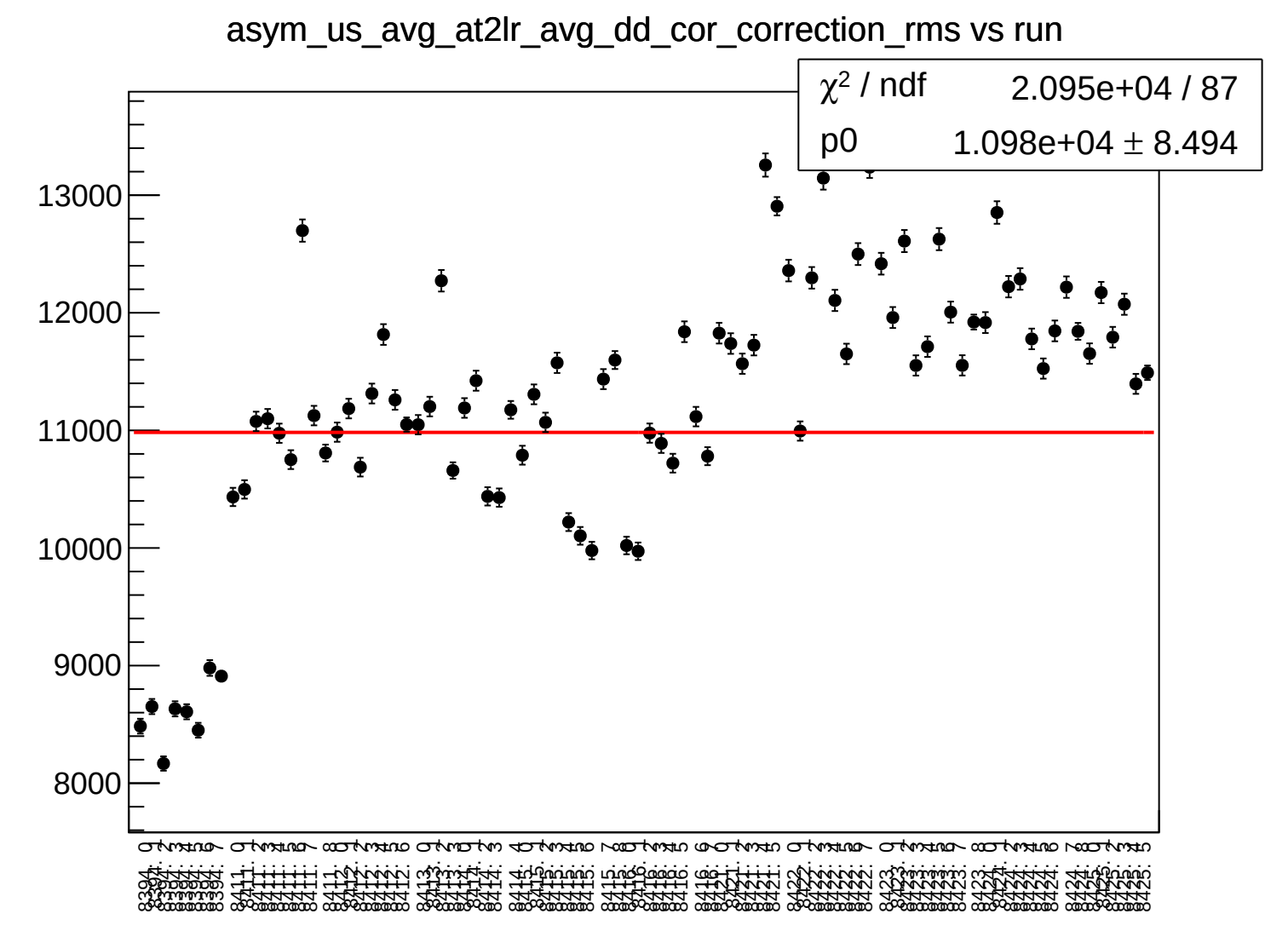

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 85.43 / 87
p0 1087 ± 1815
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 200.8
Std Dev 0
3
2
1
0
−1
−2

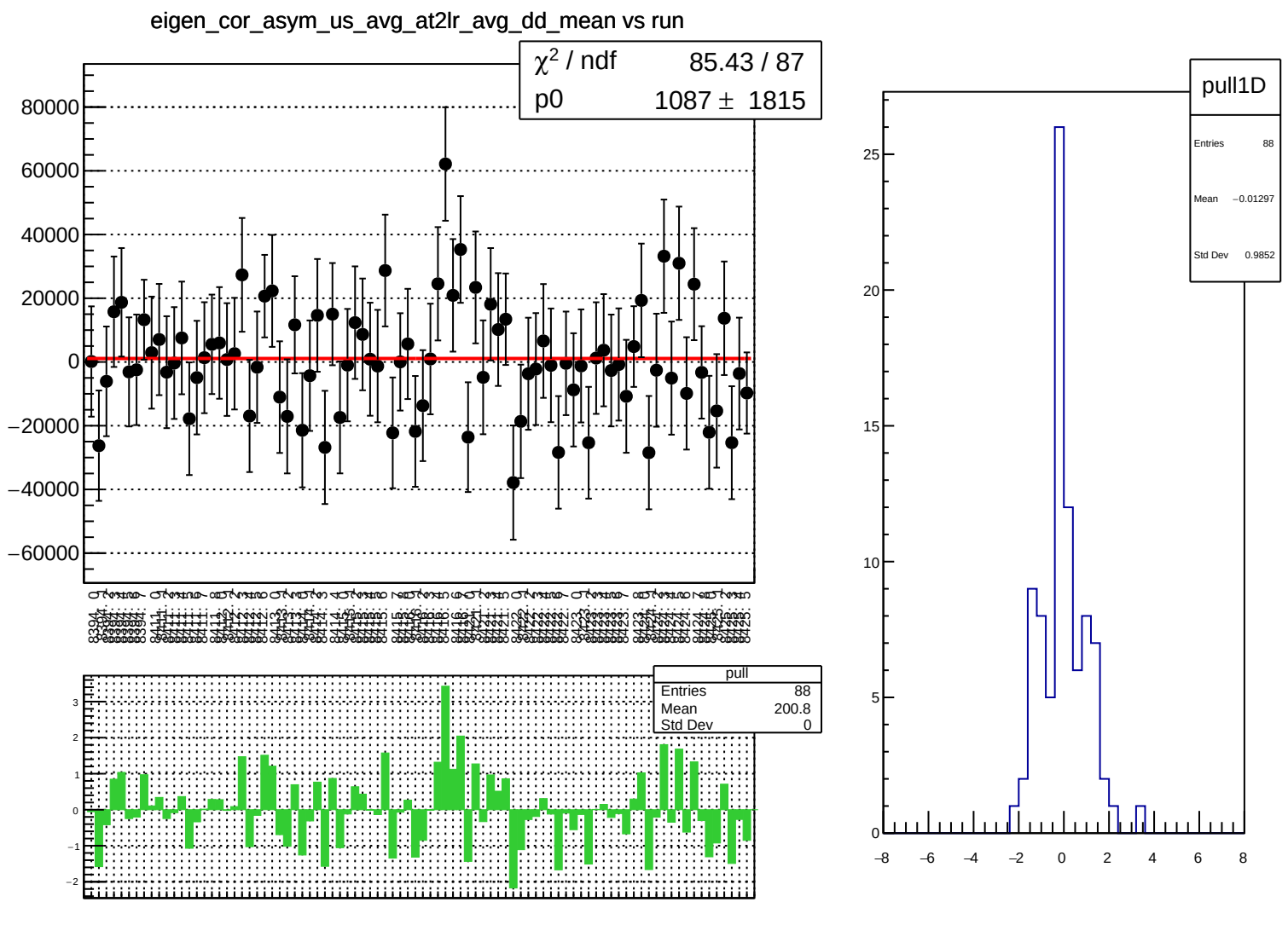

pull1D
Entries 88
Mean −0.01297
Std Dev 0.9852
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

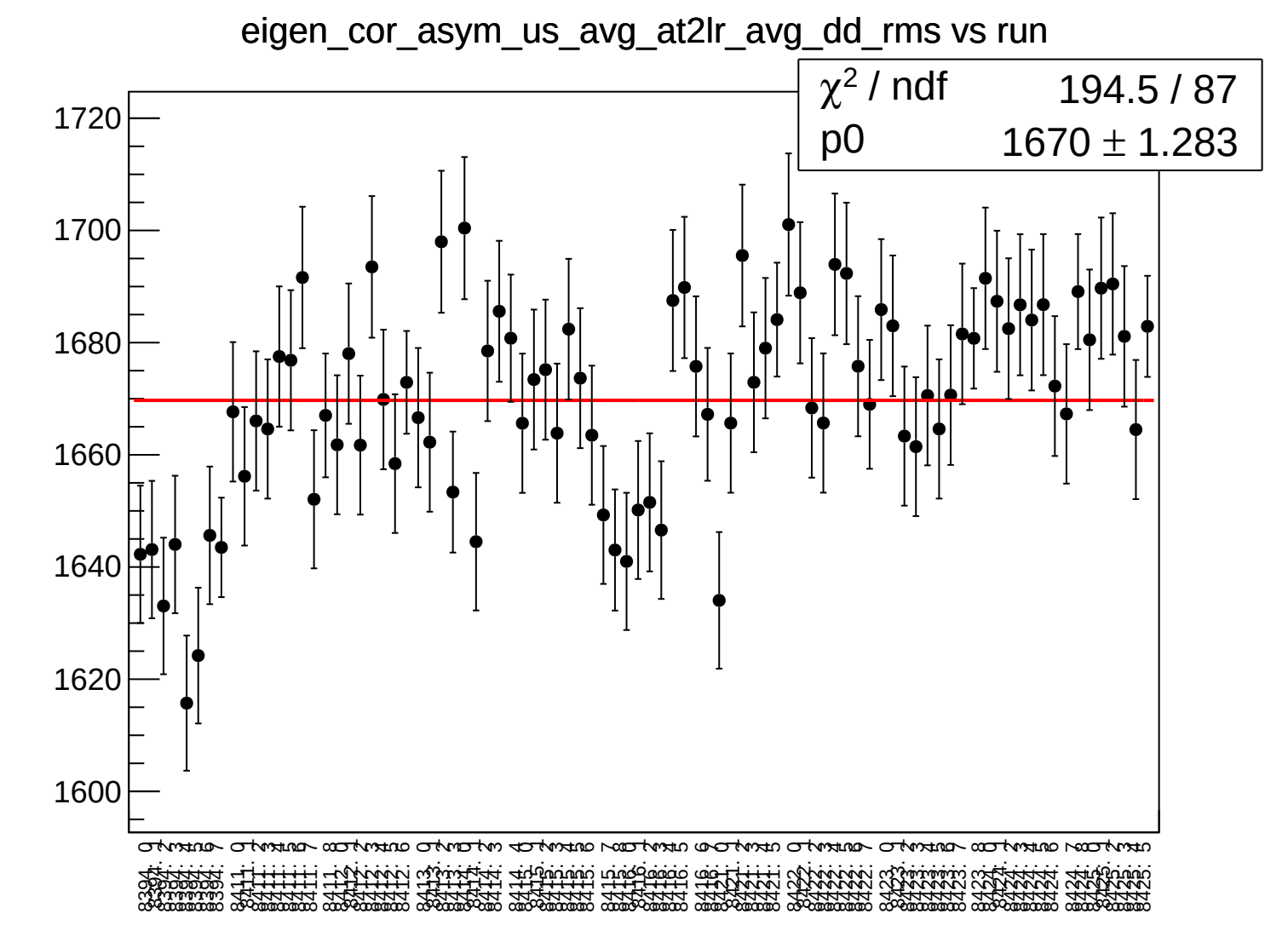

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 194.5 / 87
p0 1670 ± 1.283
1720
1700
1680
1660
1640
1620
1600

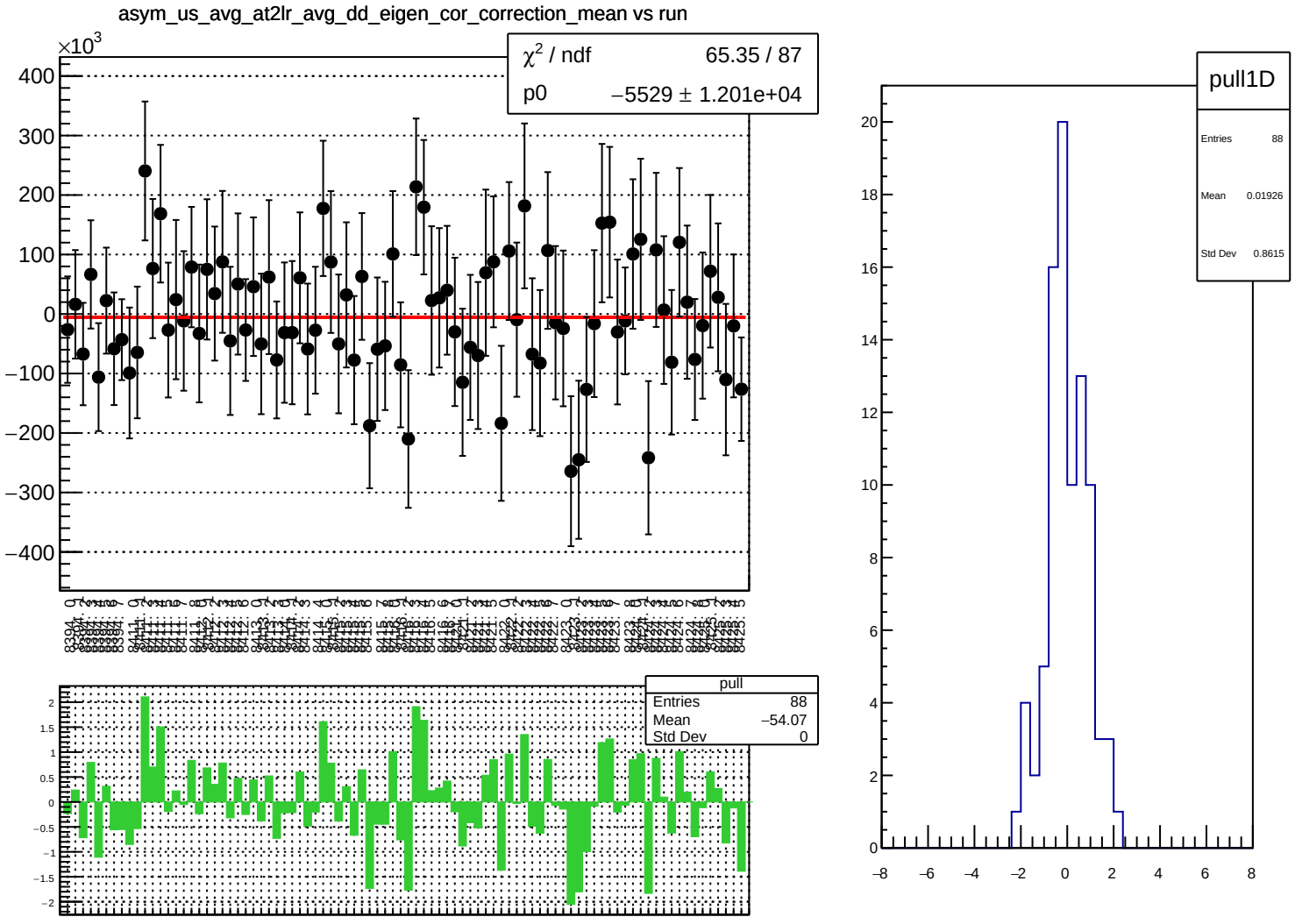

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 65.35 / 87
p0 −5529 ± 1.201e+04
pull
Entries 88
Mean −54.07
Std Dev 0

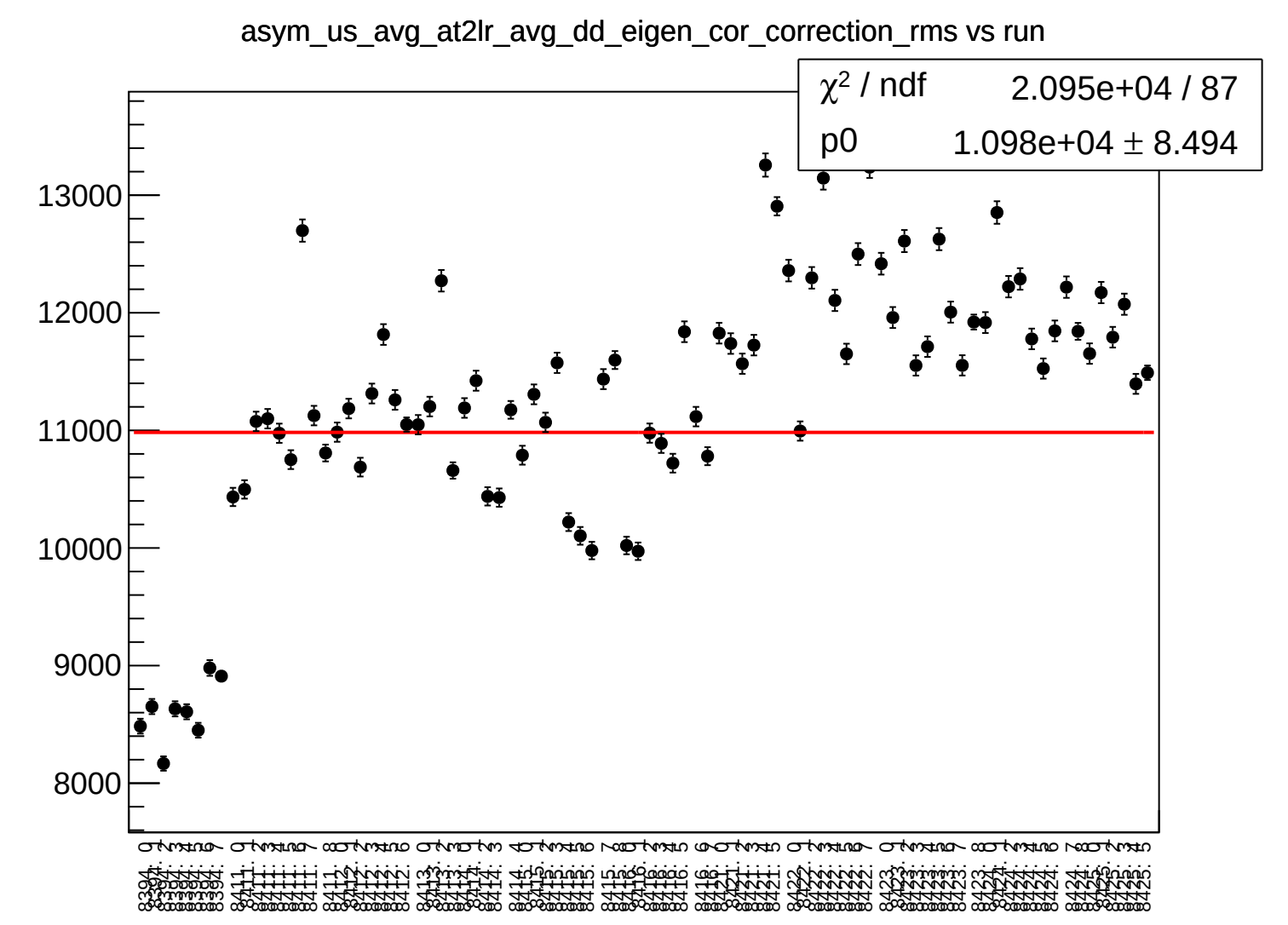

pull1D
Entries 88
Mean 0.01926
Std Dev 0.8615

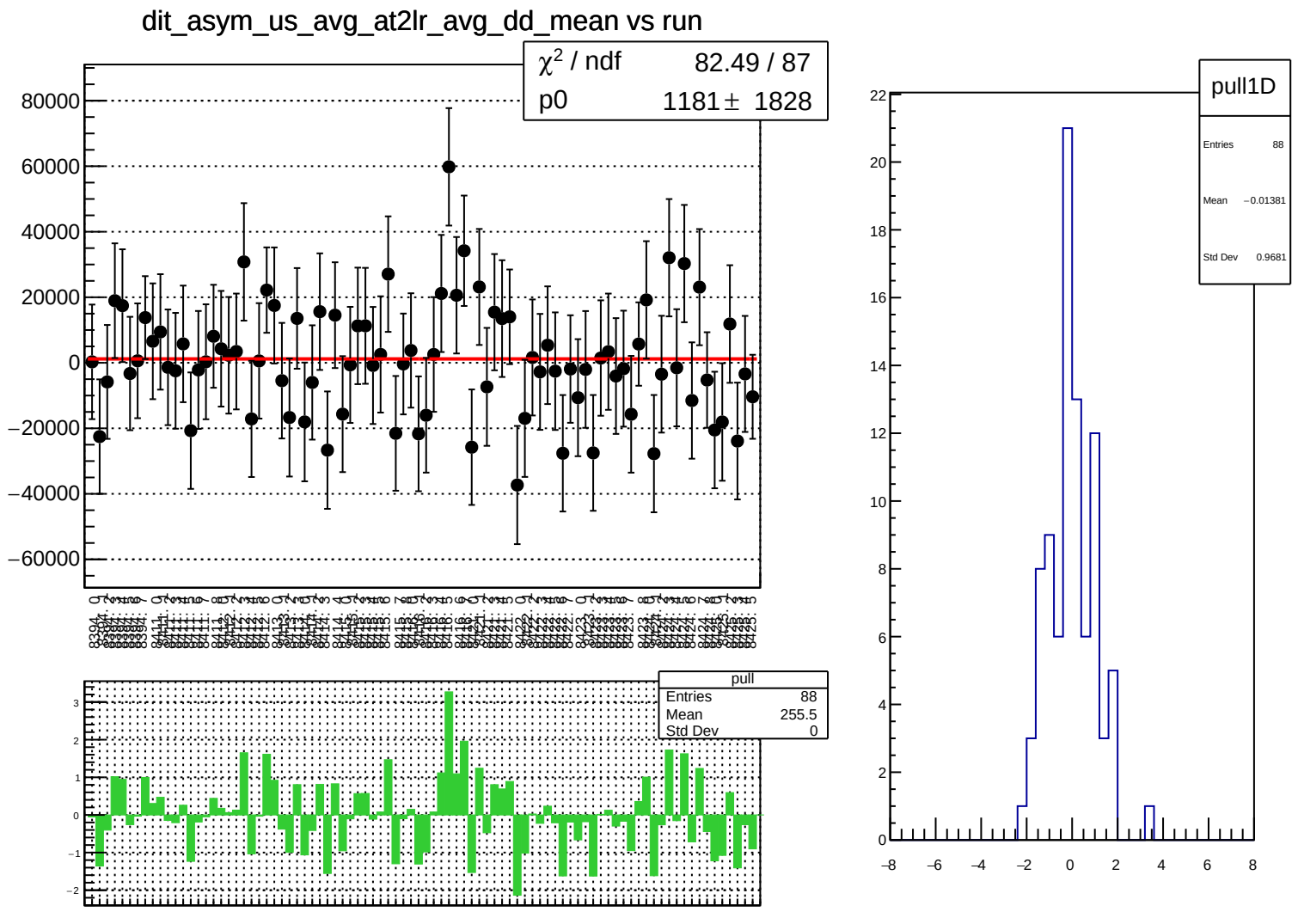

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 2.095e+04 / 87
p0 1.098e+04 ± 8.494
13000
12000
11000
10000
9000
8000

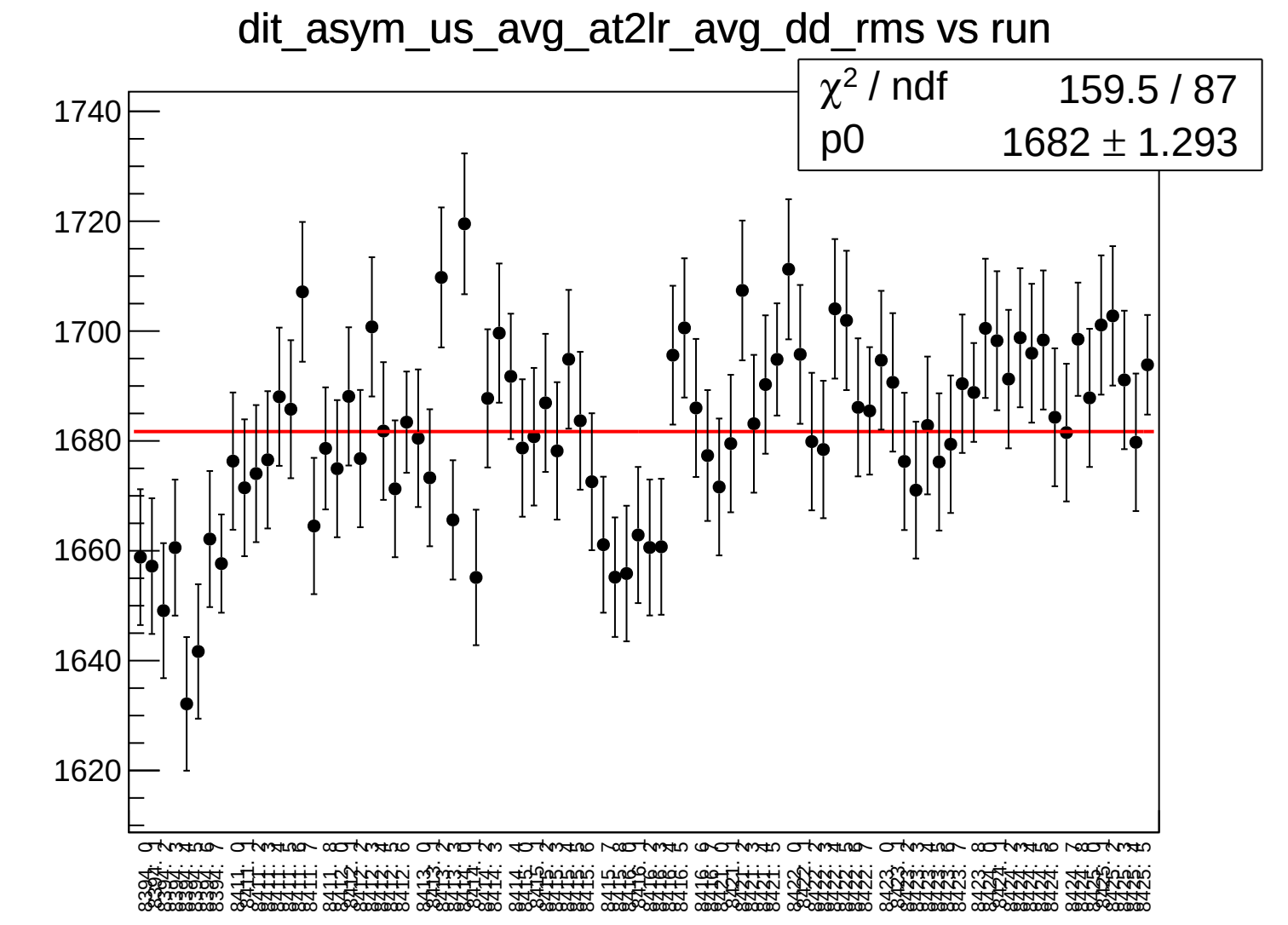

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 85.43 / 87
p0 1087 ± 1815
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 200.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01297
Std Dev 0.9852
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

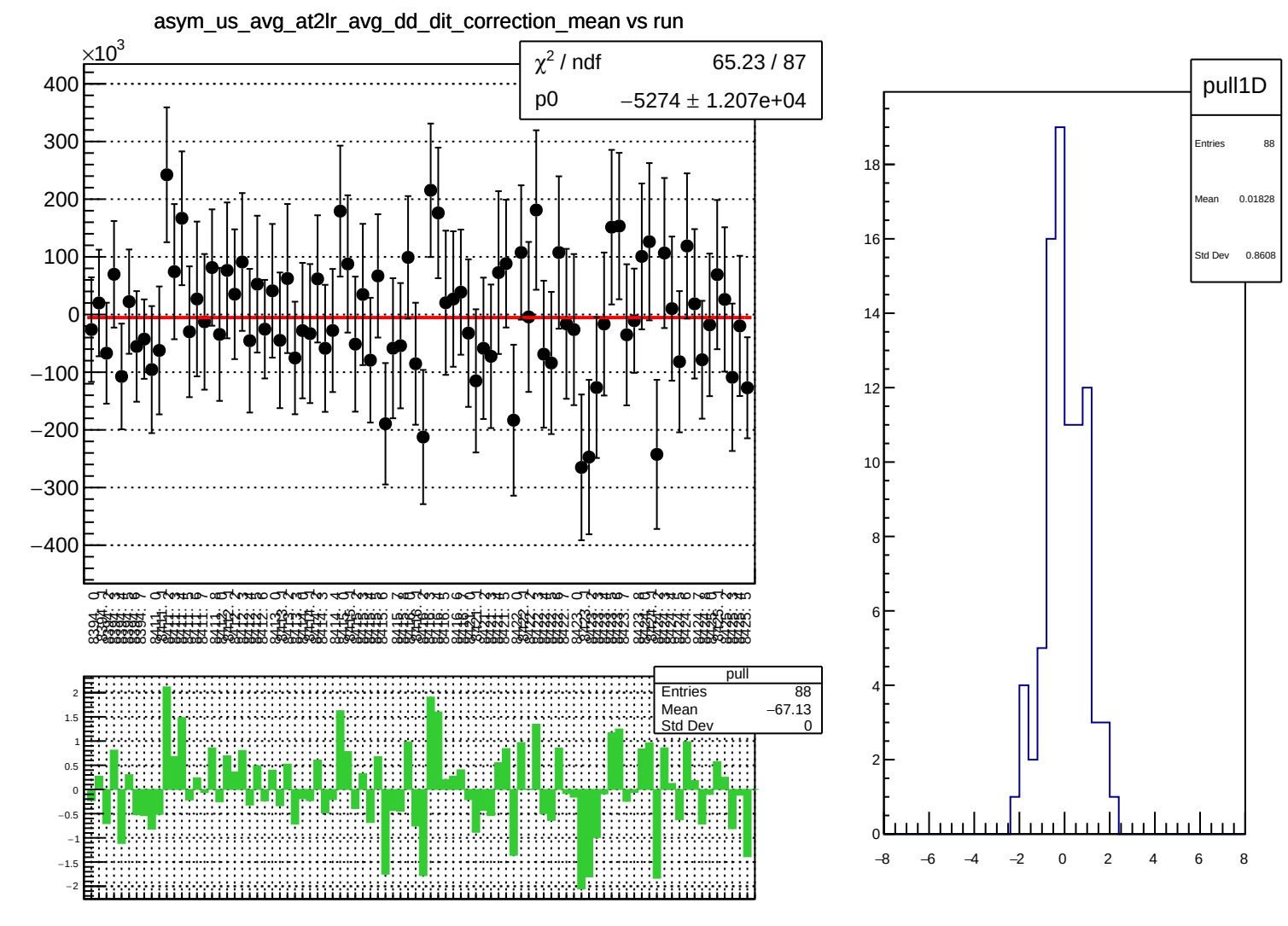

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 194.5 / 87
p0 1670 ± 1.283
1720
1700
1680
1660
1640
1620
1600

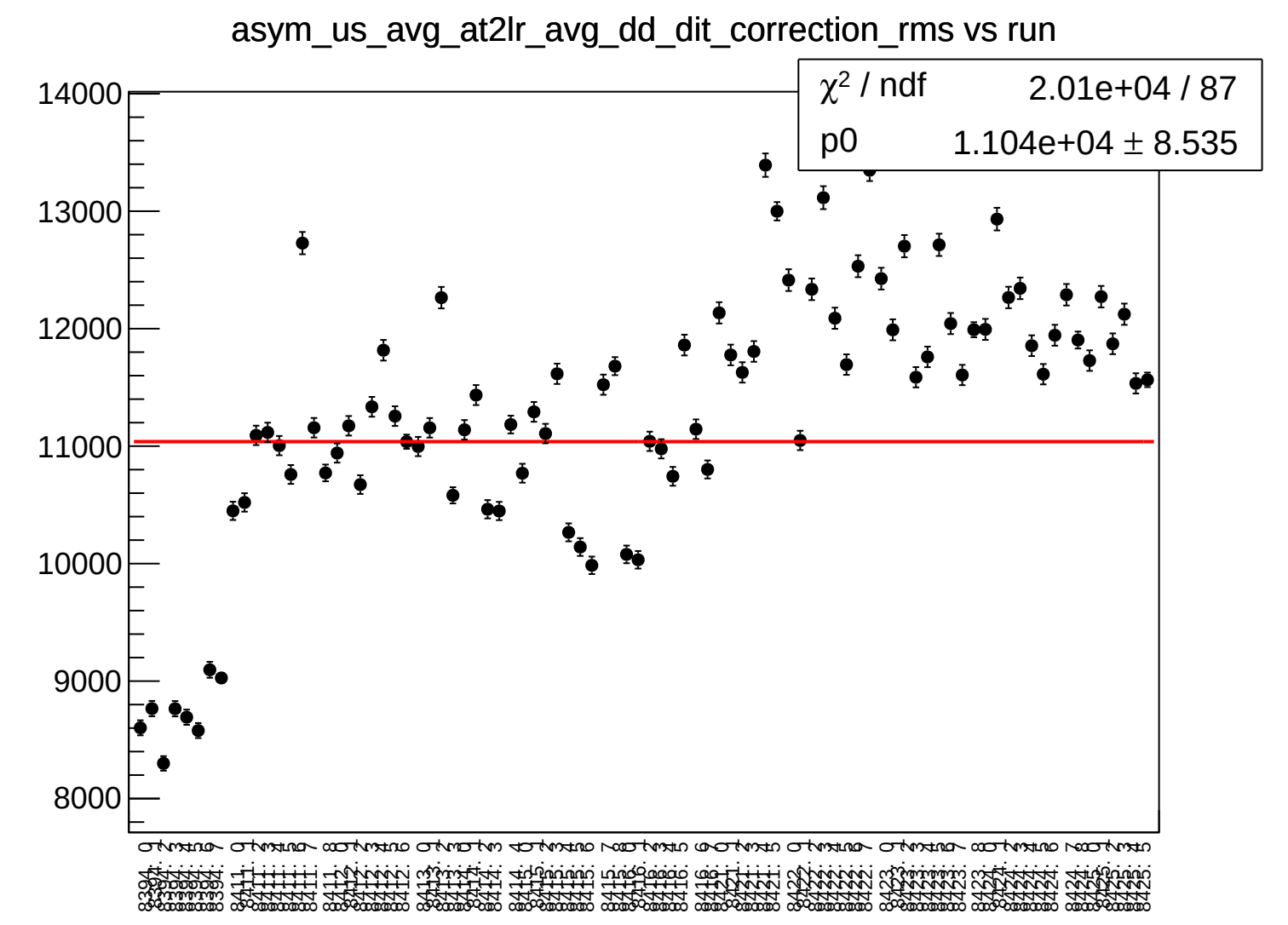

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 65.35 / 87
p0 −5529 ± 1.201e+04
pull
Entries 88
Mean −54.07
Std Dev 0
pull1D
Entries 88
Mean 0.01926
Std Dev 0.8615

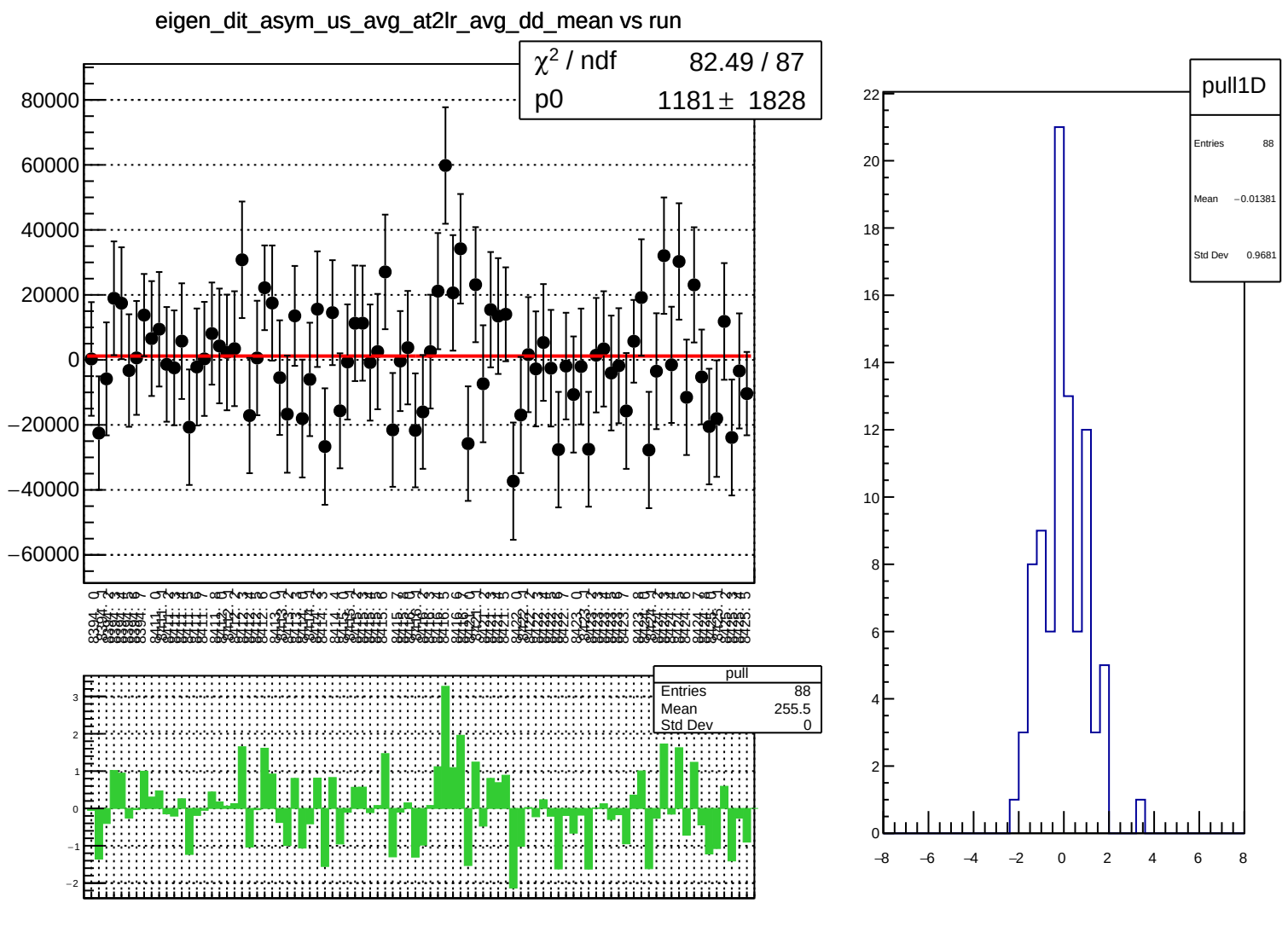

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.095e+04 / 87
p0 1.098e+04 ± 8.494
13000
12000
11000
10000
9000
8000

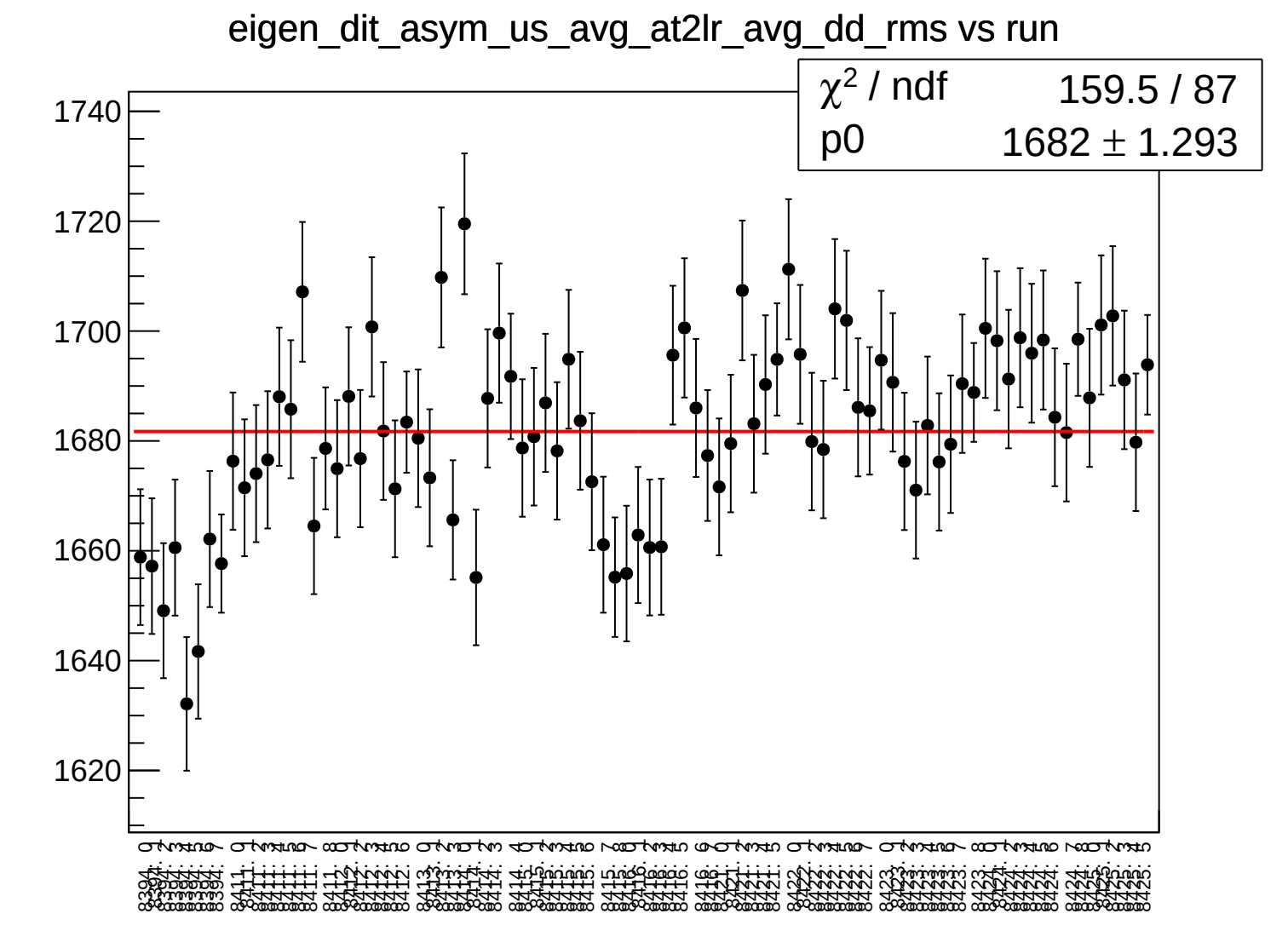

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 82.49 / 87
p0 1181 ± 1828
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 255.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01381
Std Dev 0.9681
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

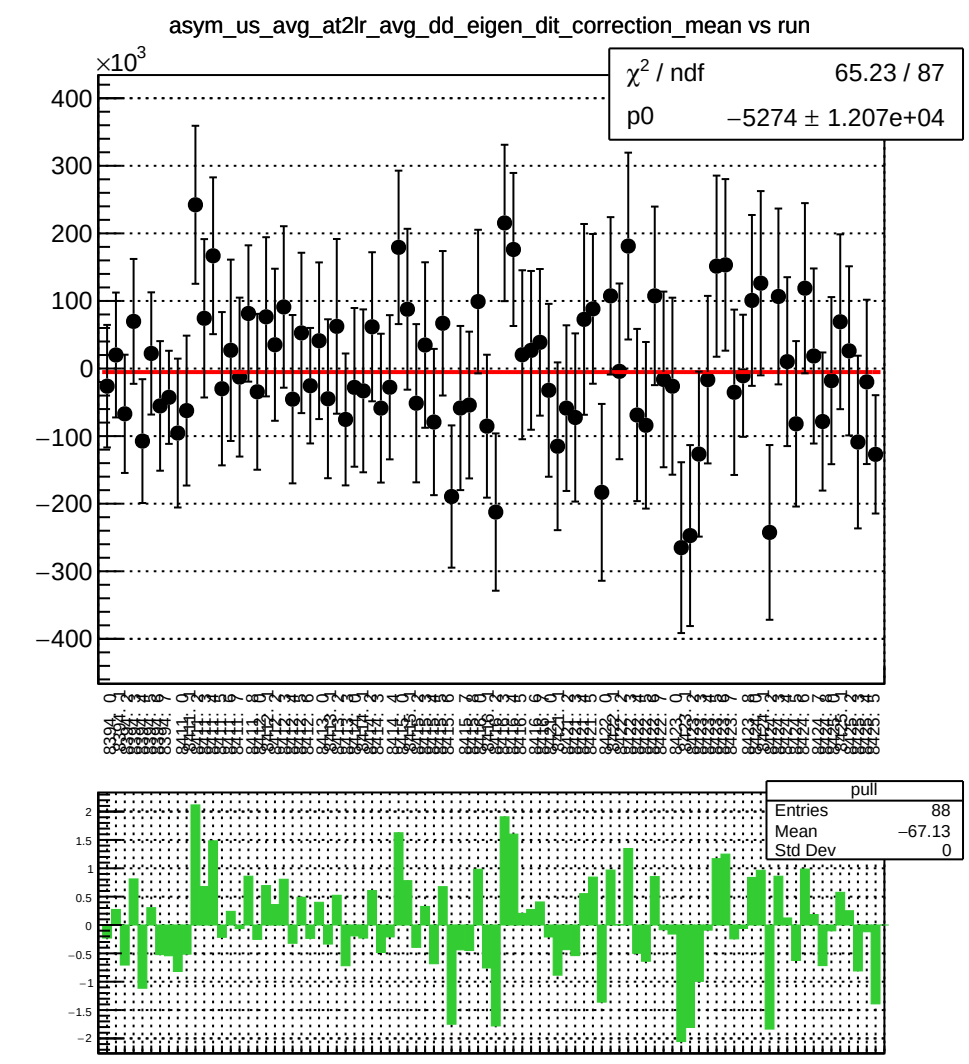

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 159.5 / 87
p0 1682 ± 1.293
1740
1720
1700
1680
1660
1640
1620

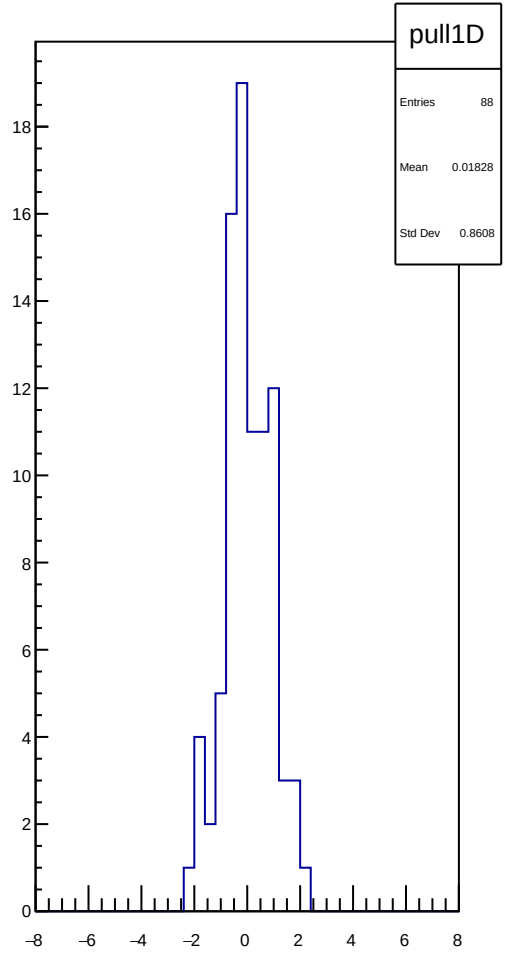

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 65.23 / 87
p0 −5274 ± 1.207e+04
pull
Entries 88
Mean −67.13
Std Dev 0
pull1D
Entries 88
Mean 0.01828
Std Dev 0.8608

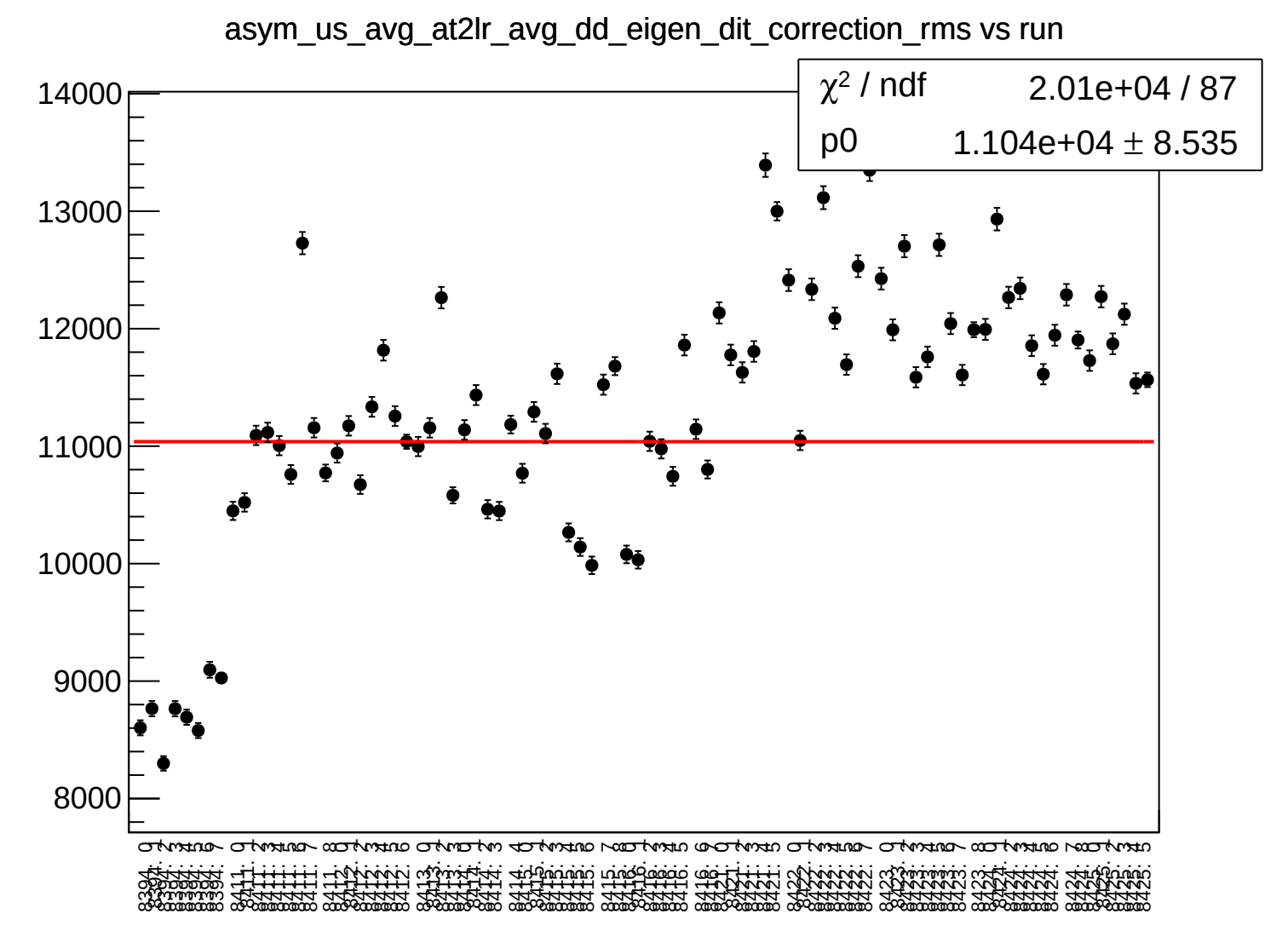

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 2.01e+04 / 87
p0 1.104e+04 ± 8.535
14000
13000
12000
11000
10000
9000
8000

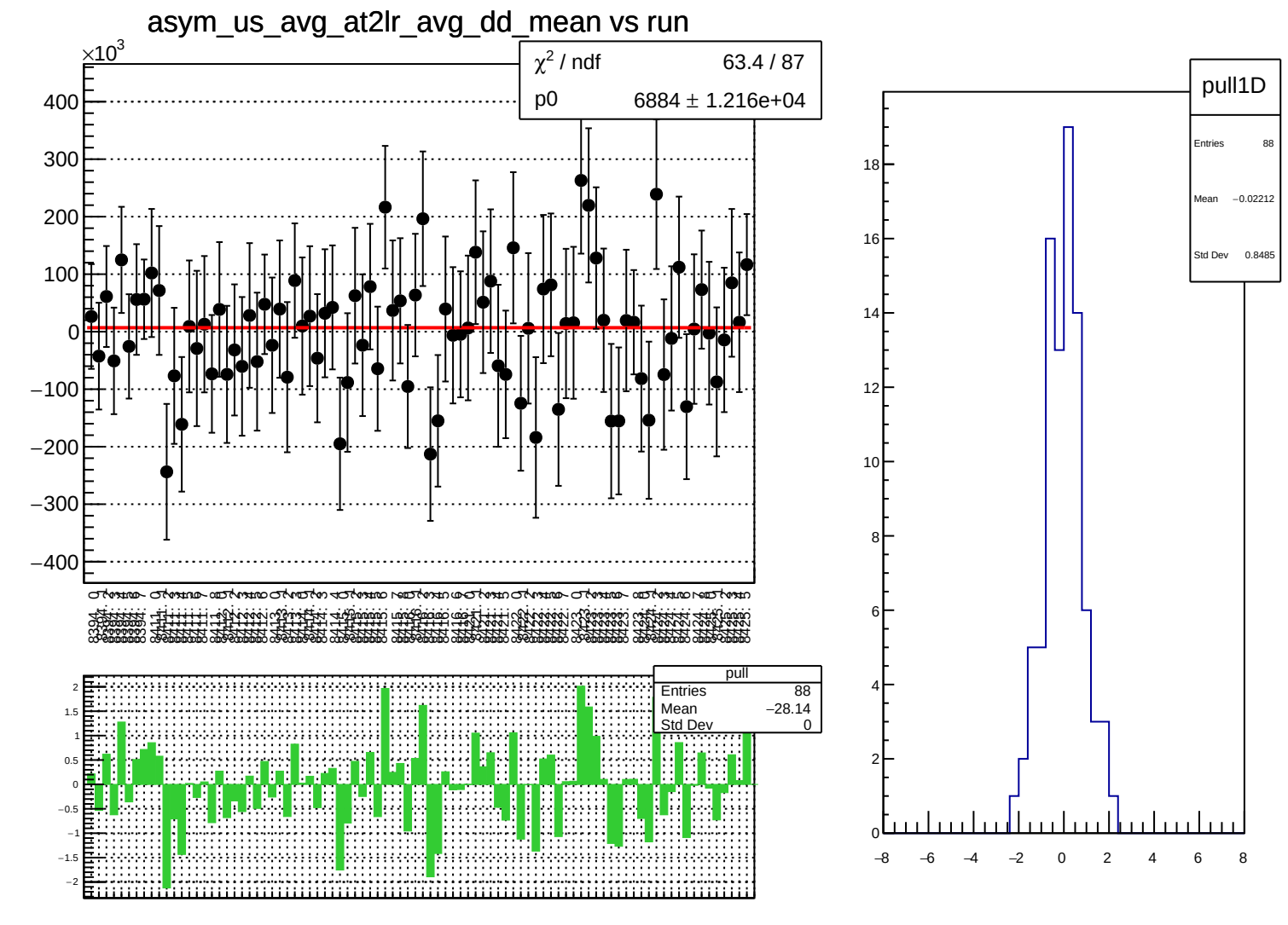

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 82.49 / 87
p0 1181 ± 1828
pull
Entries 88
Mean 255.5
Std Dev 0
pull1D
Entries 88
Mean −0.01381
Std Dev 0.9681

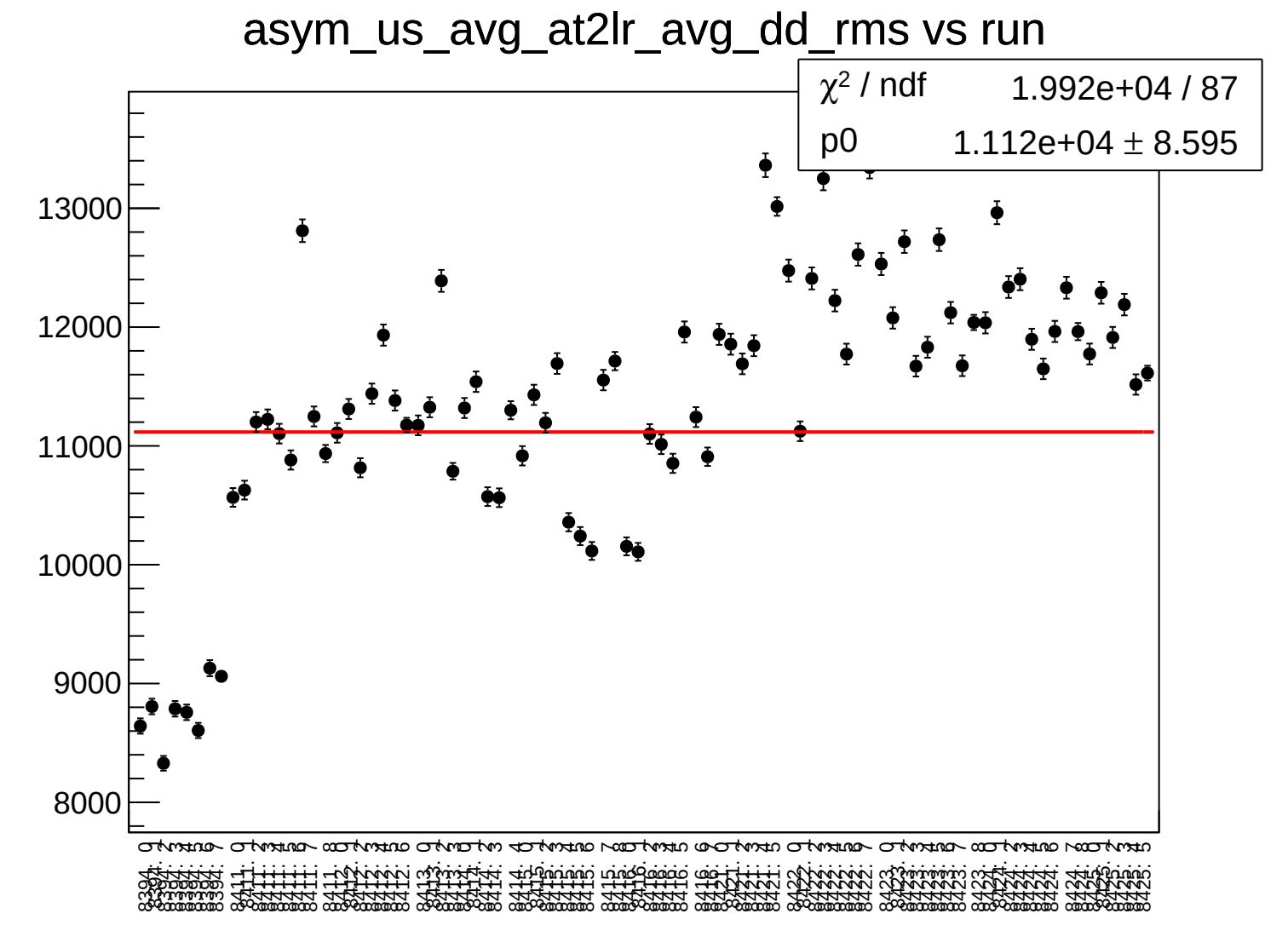

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 159.5 / 87
p0 1682 ± 1.293
1740
1720
1700
1680
1660
1640
1620

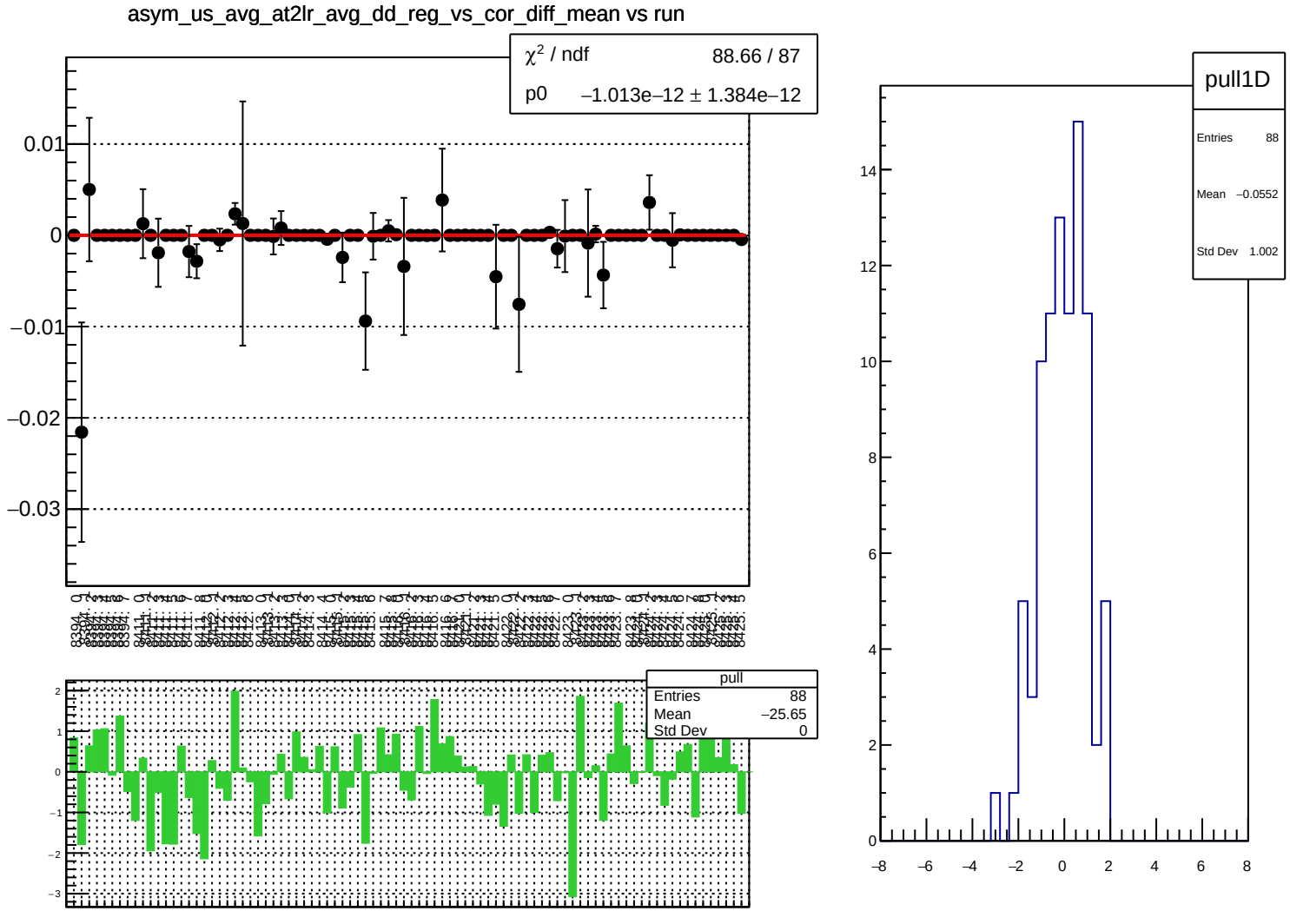

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 65.23 / 87
p0 −5274 ± 1.207e+04
pull
Entries 88
Mean −67.13
Std Dev 0

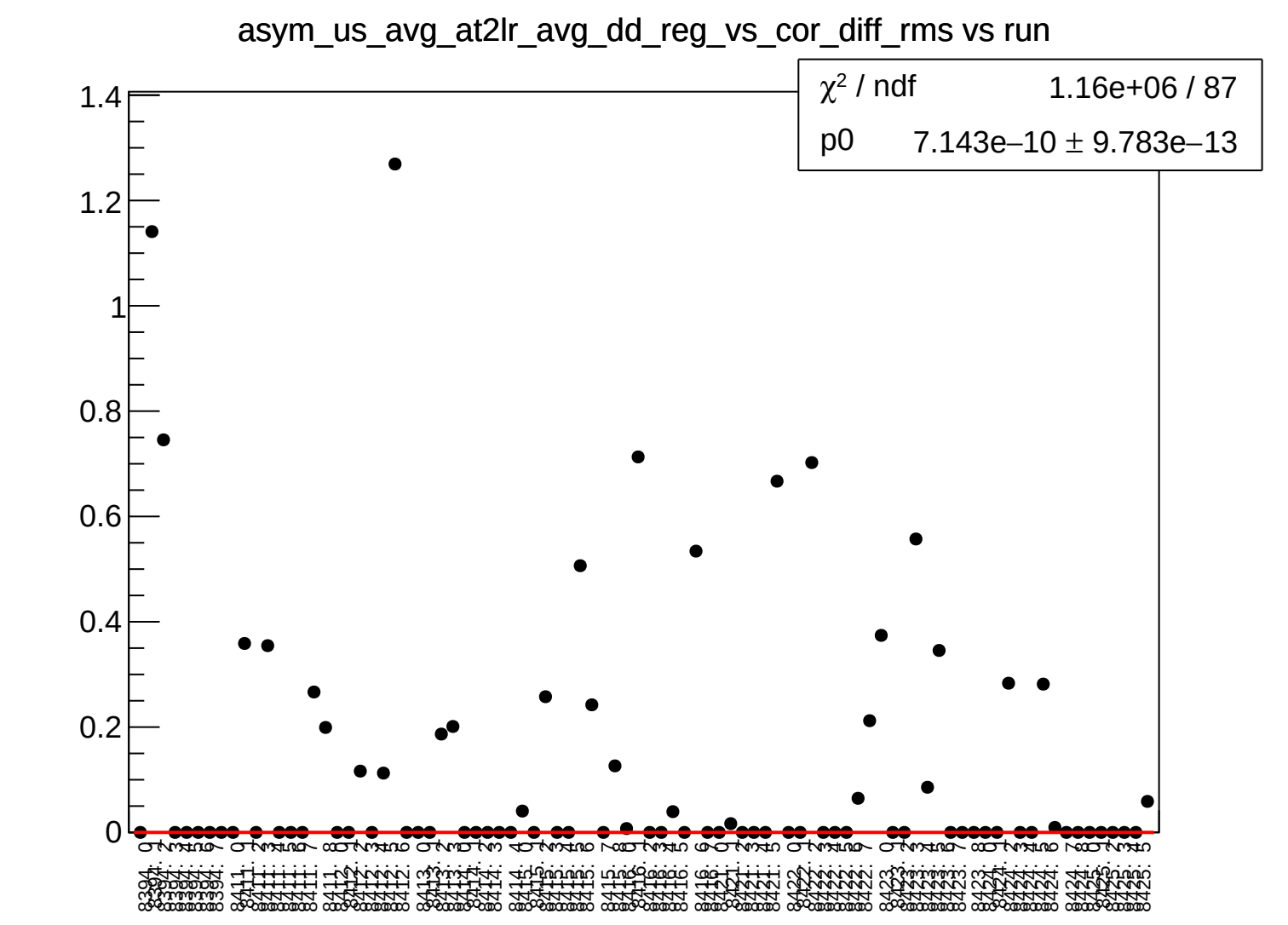

pull1D
Entries 88
Mean 0.01828
Std Dev 0.8608

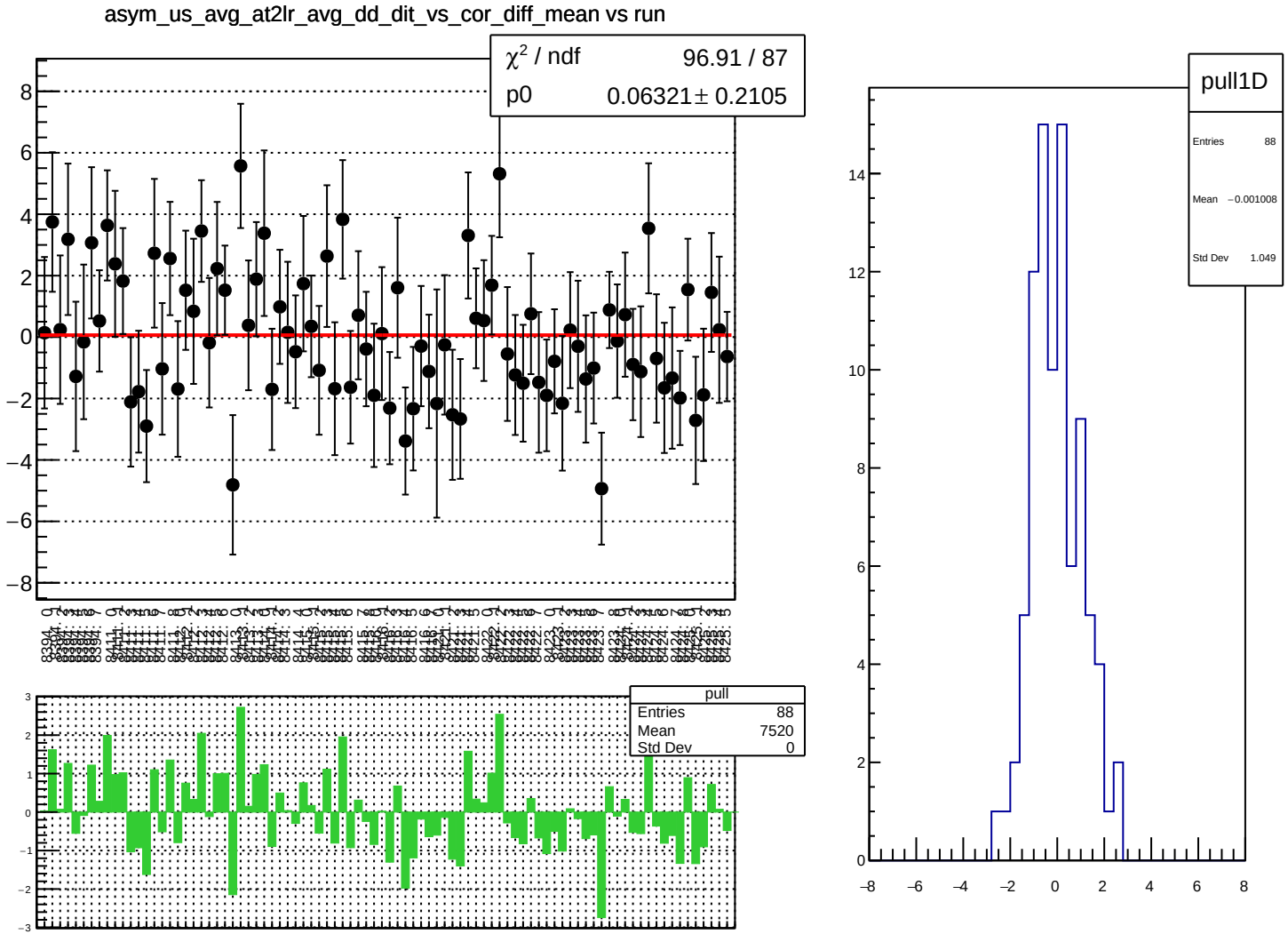

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.01e+04 / 87
p0 1.104e+04 ± 8.535
14000
13000
12000
11000
10000
9000
8000

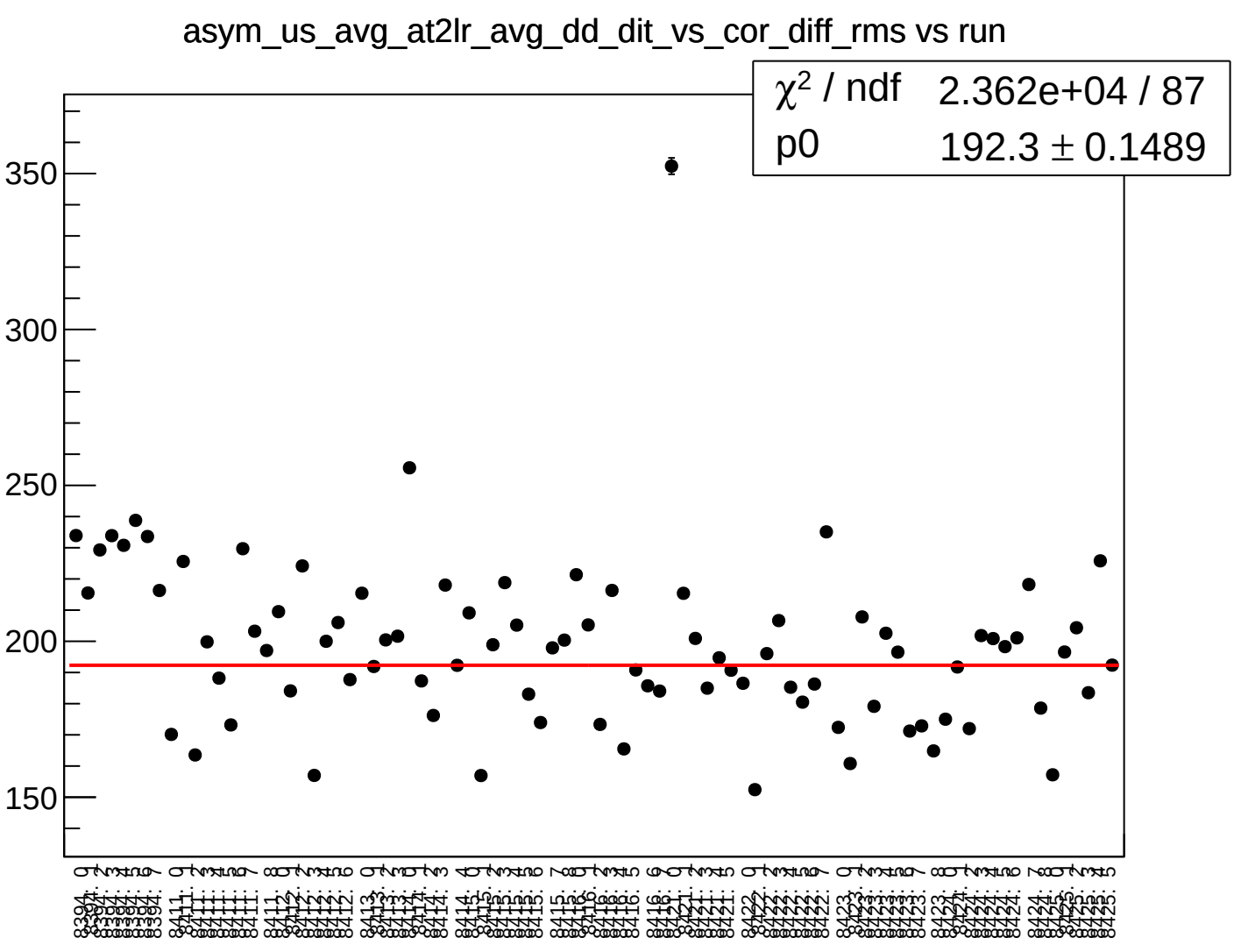

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 63.4 / 87
p0 6884 ± 1.216e+04
pull
Entries 88
Mean −28.14
Std Dev 0
pull1D
Entries 88
Mean −0.02212
Std Dev 0.8485

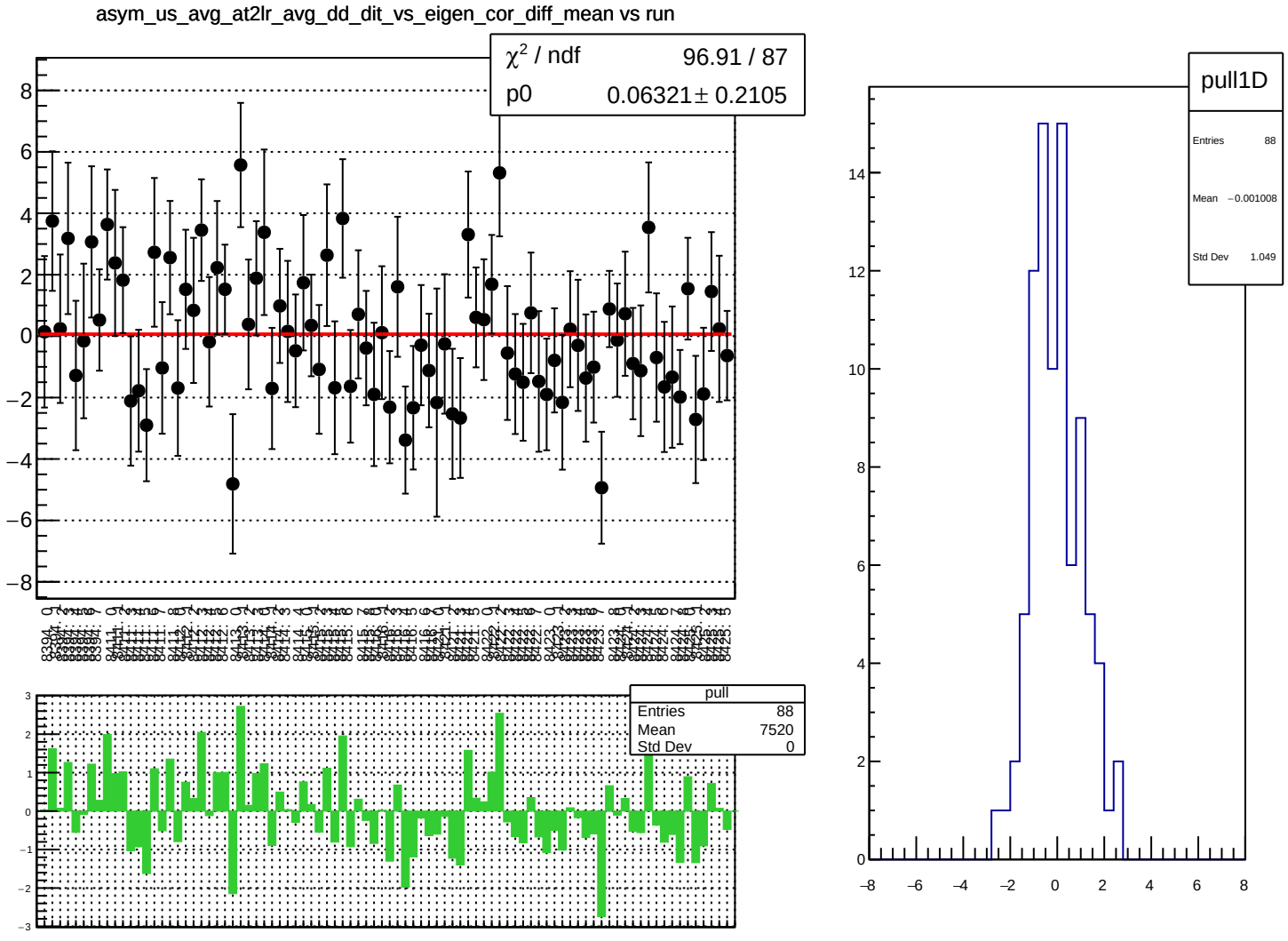

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1.992e+04 / 87
p0 1.112e+04 ± 8.595
13000
12000
11000
10000
9000
8000

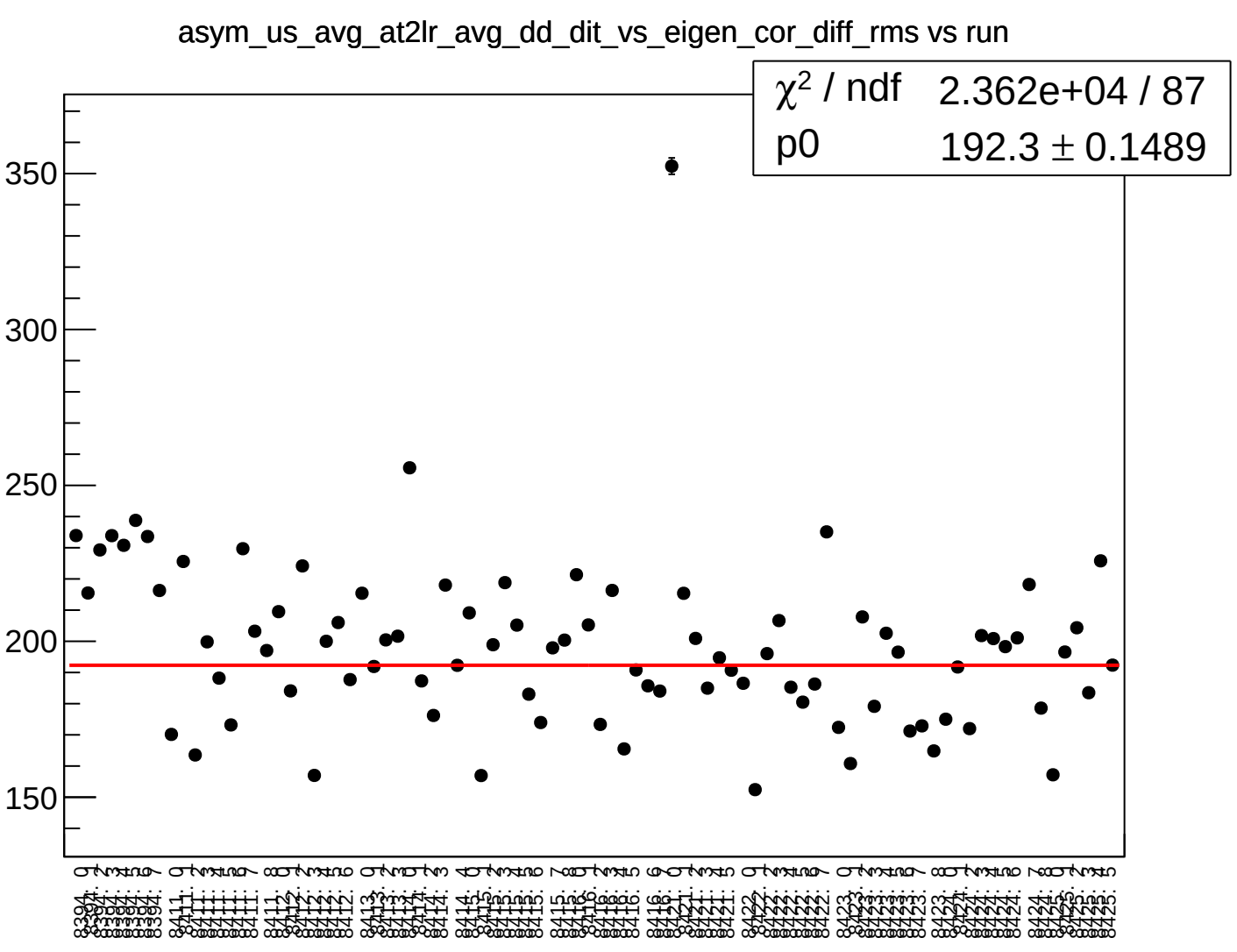

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.66 / 87
p0 −1.013e−12 ± 1.384e−12
0.01
0
−0.01
−0.02
−0.03
pull
Entries 88
Mean −25.65
Std Dev 0
pull1D
Entries 88
Mean −0.0552
Std Dev 1.002

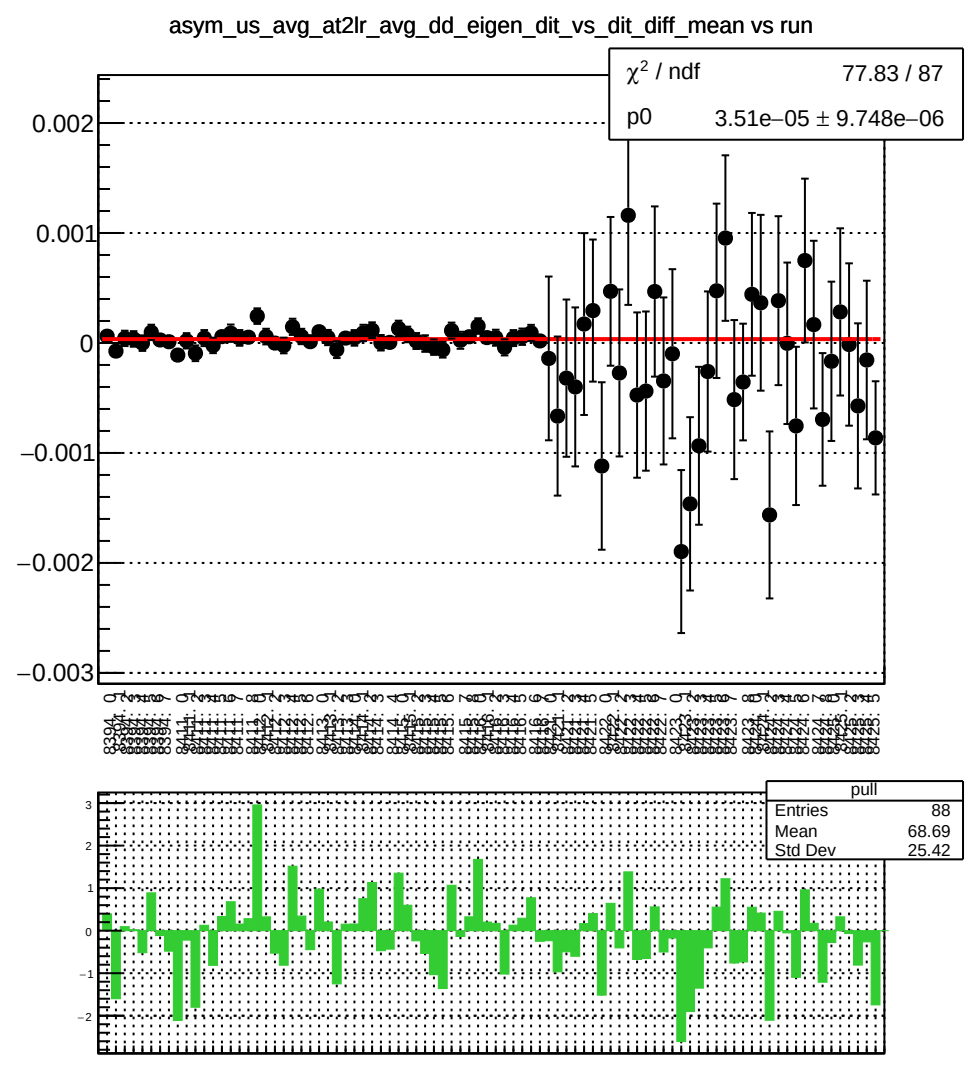

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.16e+06 / 87
p0 7.143e−10 ± 9.783e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

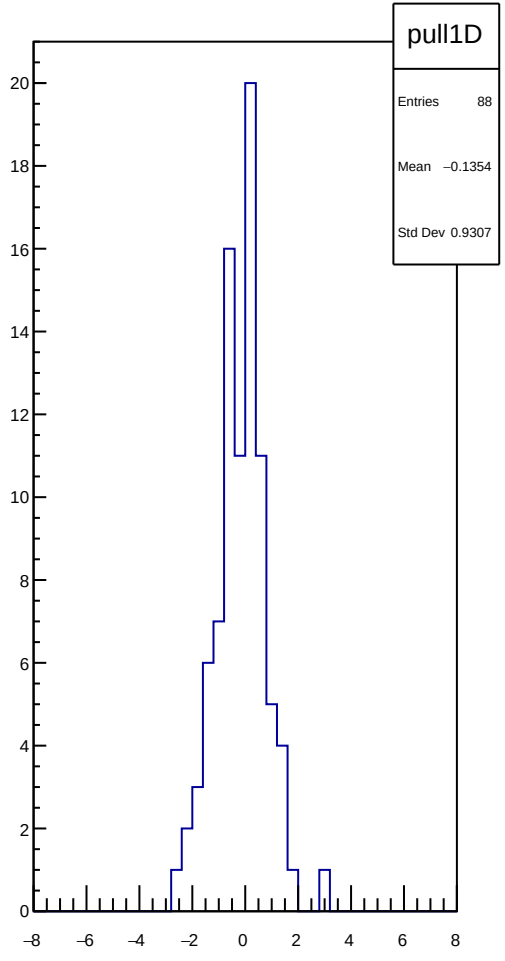

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 96.91 / 87
p0 0.06321 ± 0.2105
pull
Entries 88
Mean 7520
Std Dev 0
pull1D
Entries 88
Mean −0.001008
Std Dev 1.049

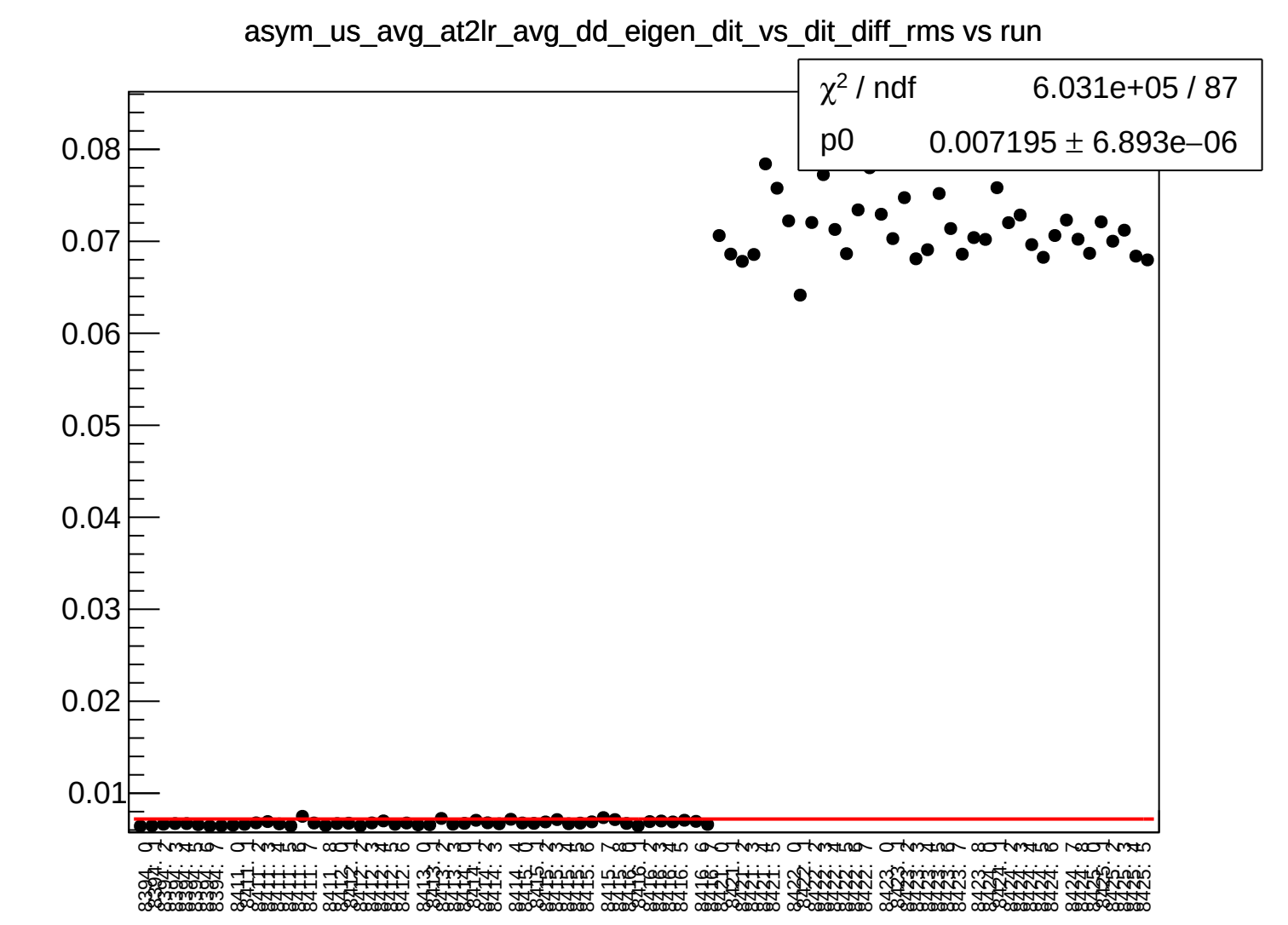

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.362e+04 / 87
p0 192.3 ± 0.1489
350
300
250
200
150

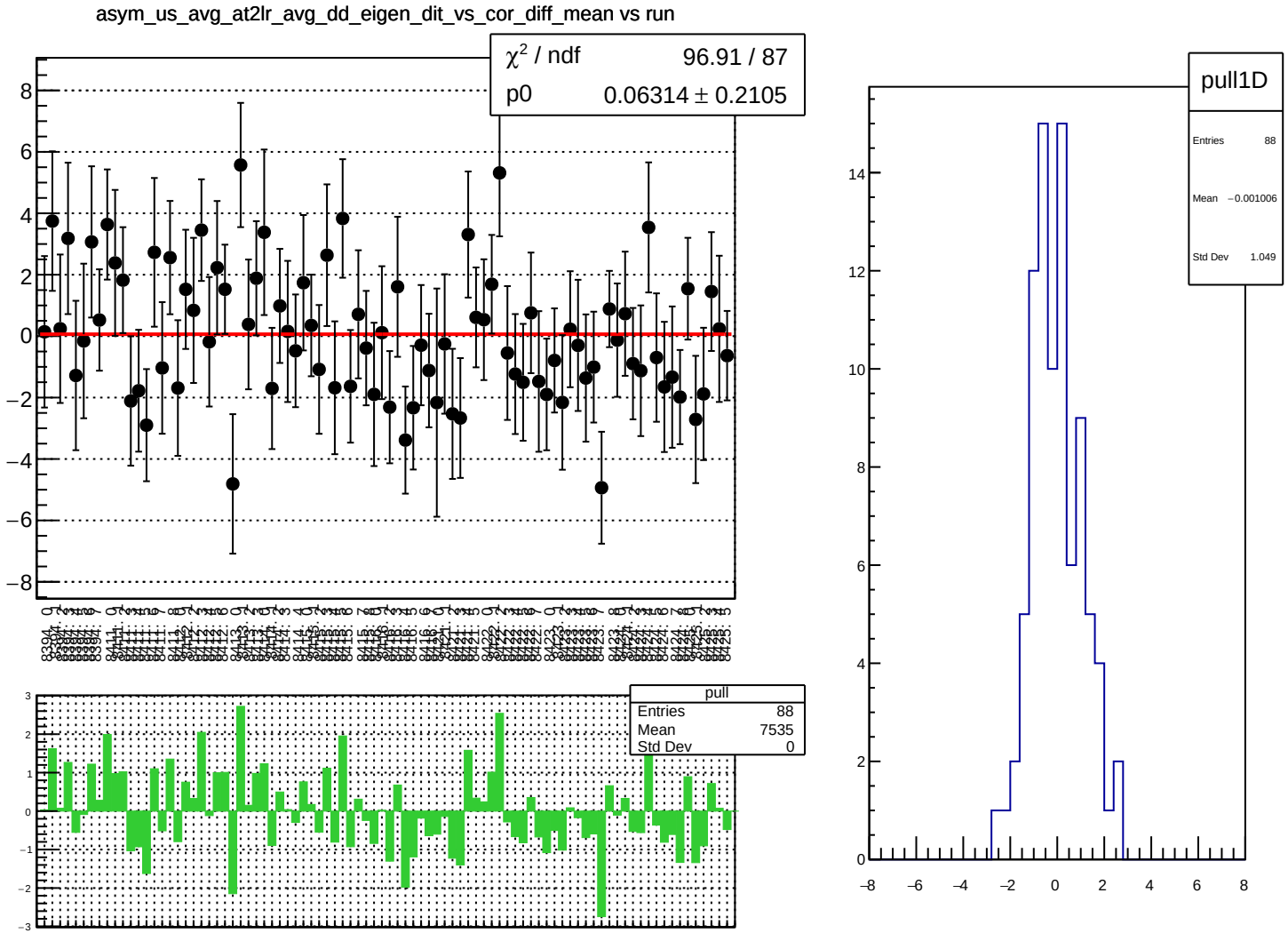

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.91 / 87
p0 0.06321± 0.2105
pull
Entries 88
Mean 7520
Std Dev 0
pull1D
Entries 88
Mean −0.001008
Std Dev 1.049

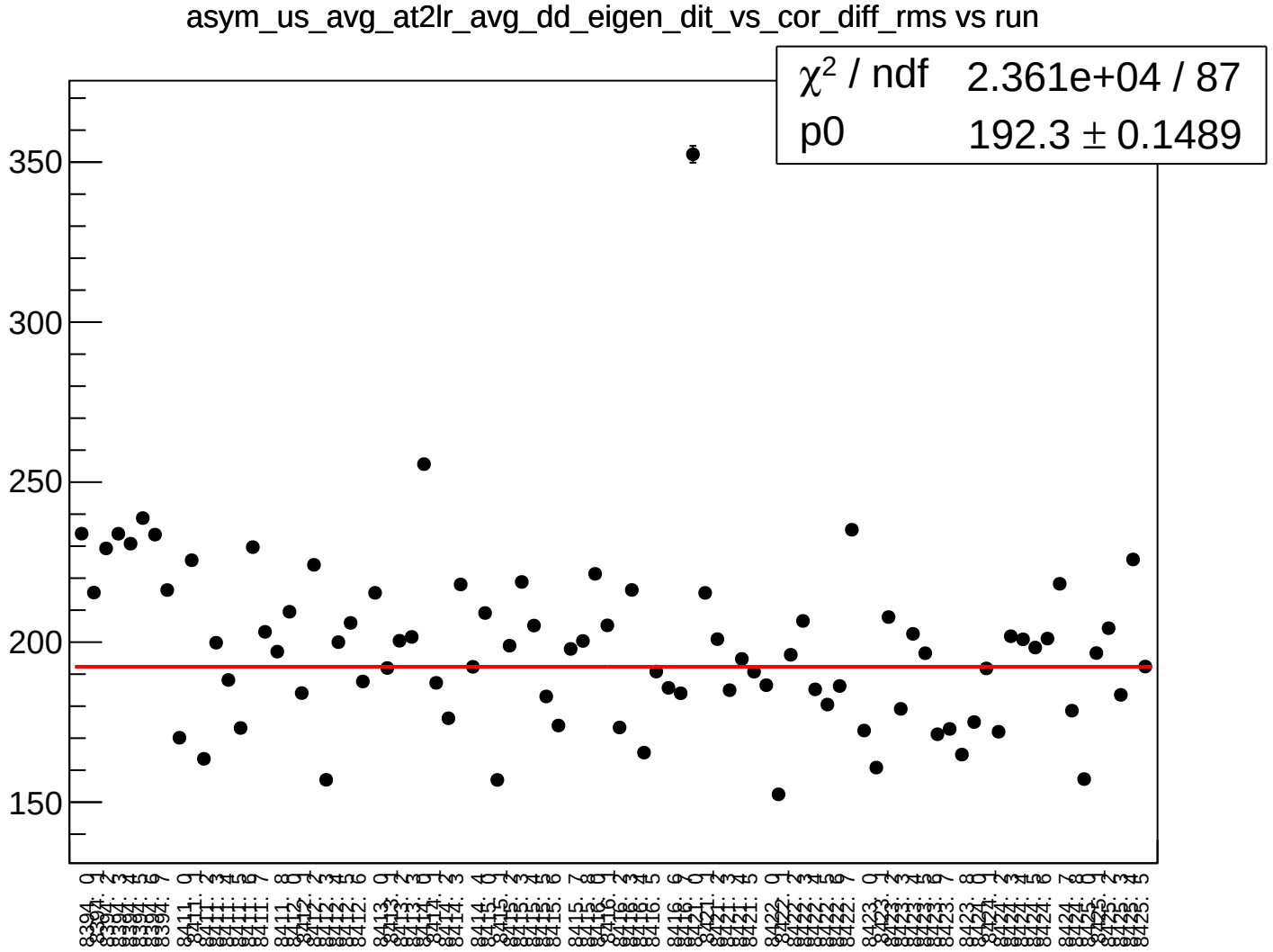

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.362e+04 / 87
p0 192.3 ± 0.1489
350
300
250
200
150

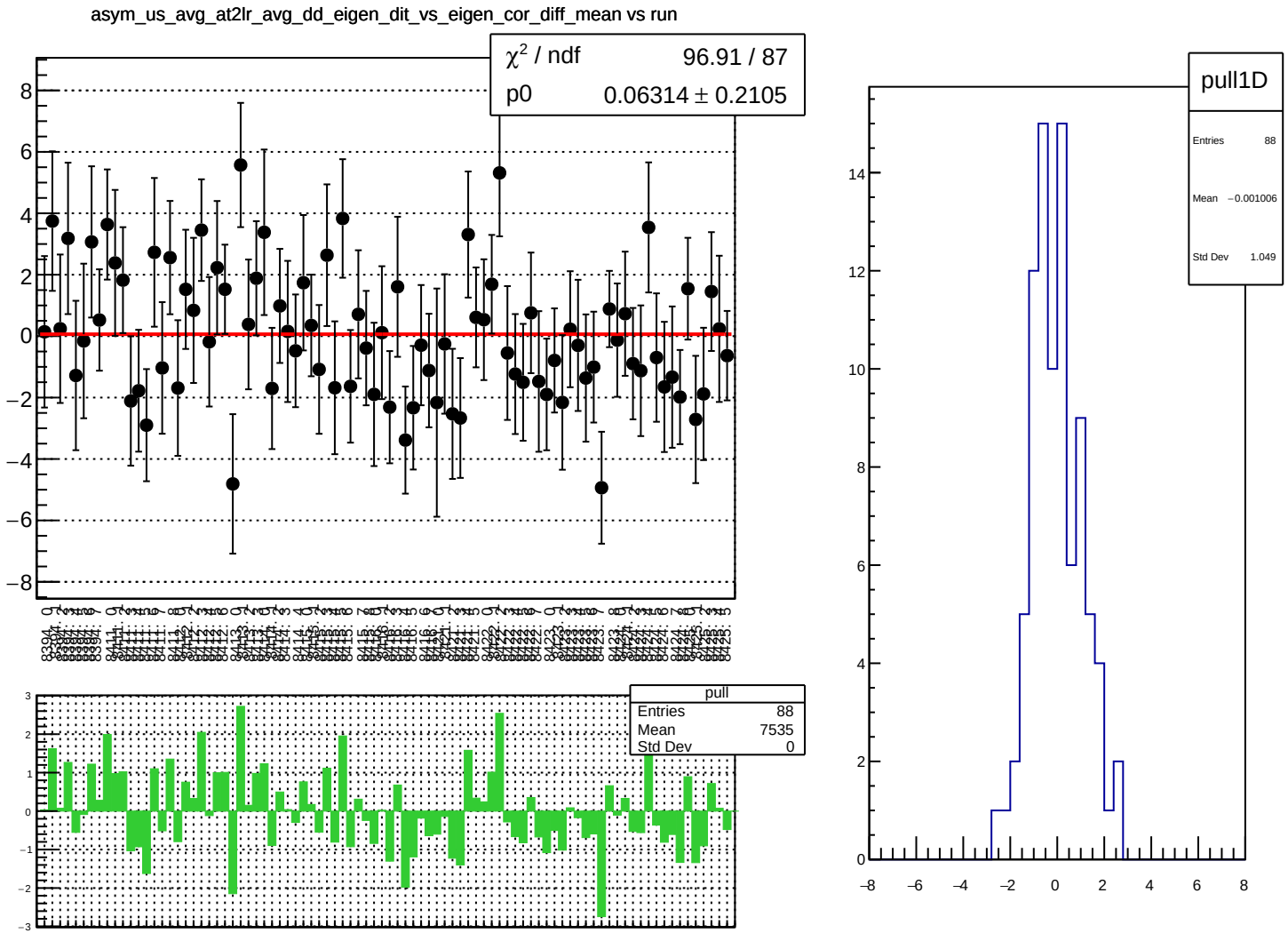

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 77.83 / 87
p0 3.51e−05 ± 9.748e−06
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 88
Mean 68.69
Std Dev 25.42
3
2
1
0
−1
−2

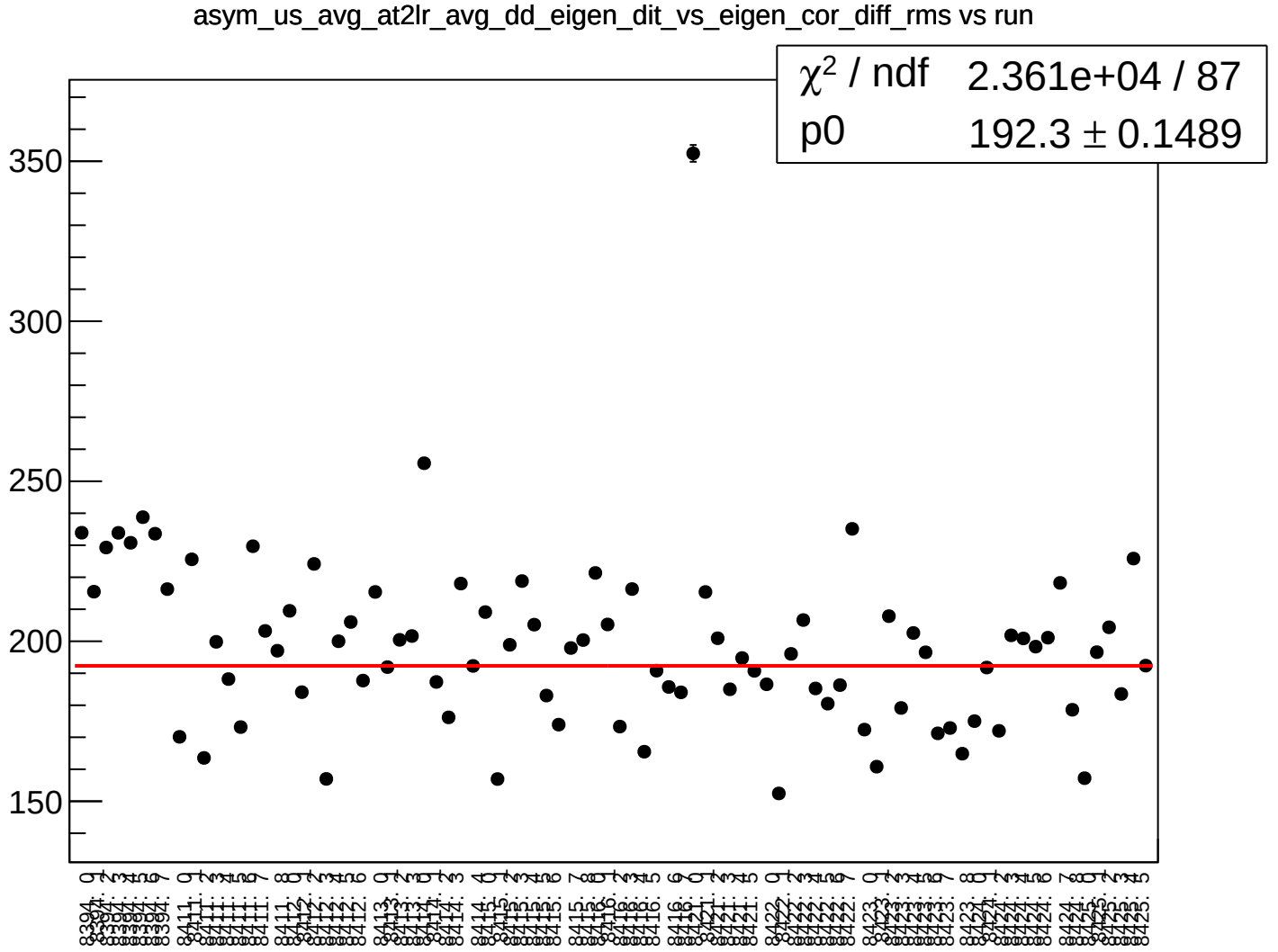

pull1D
Entries 88
Mean −0.1354
Std Dev 0.9307
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

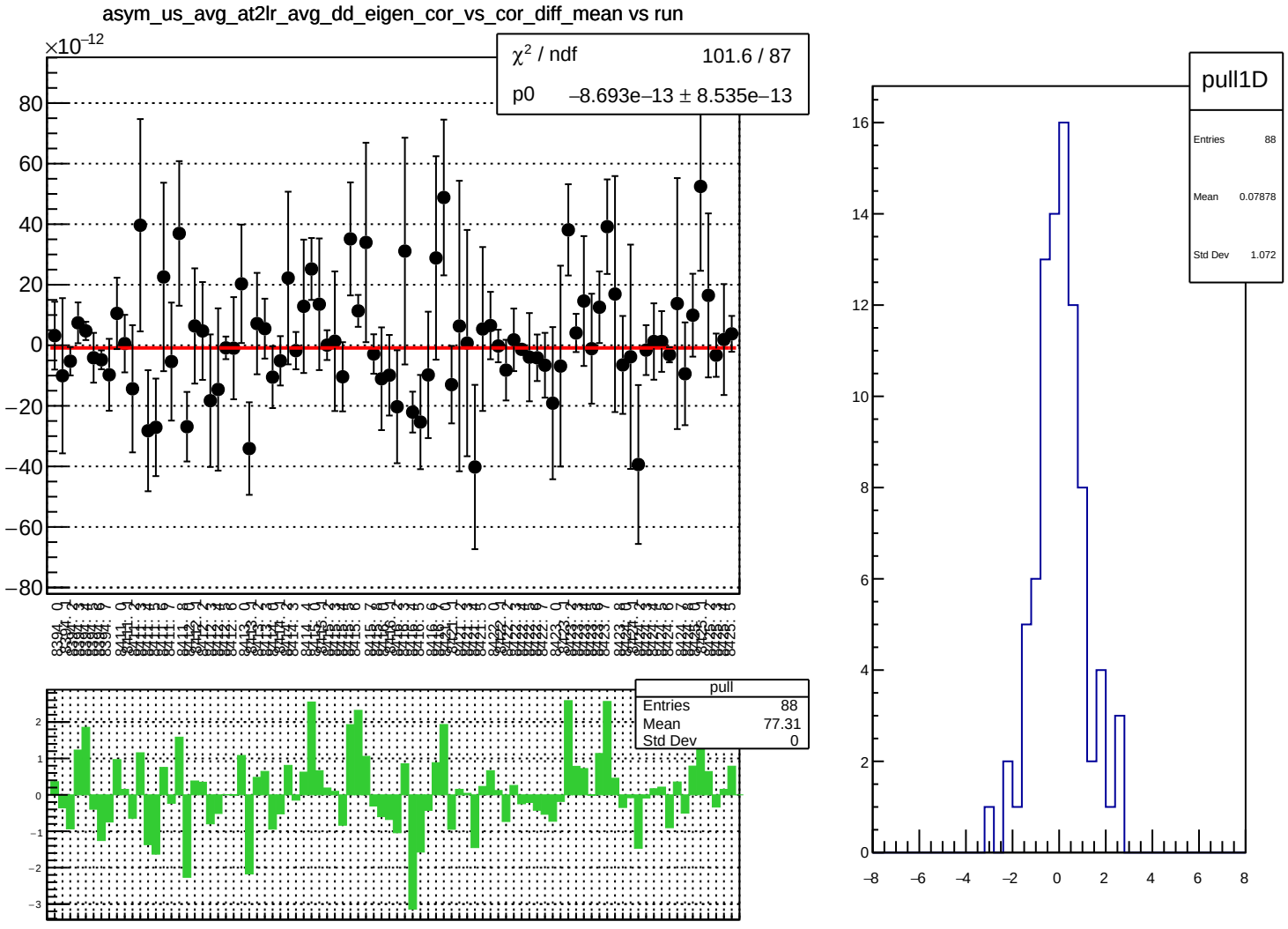

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.031e+05 / 87
p0 0.007195 ± 6.893e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

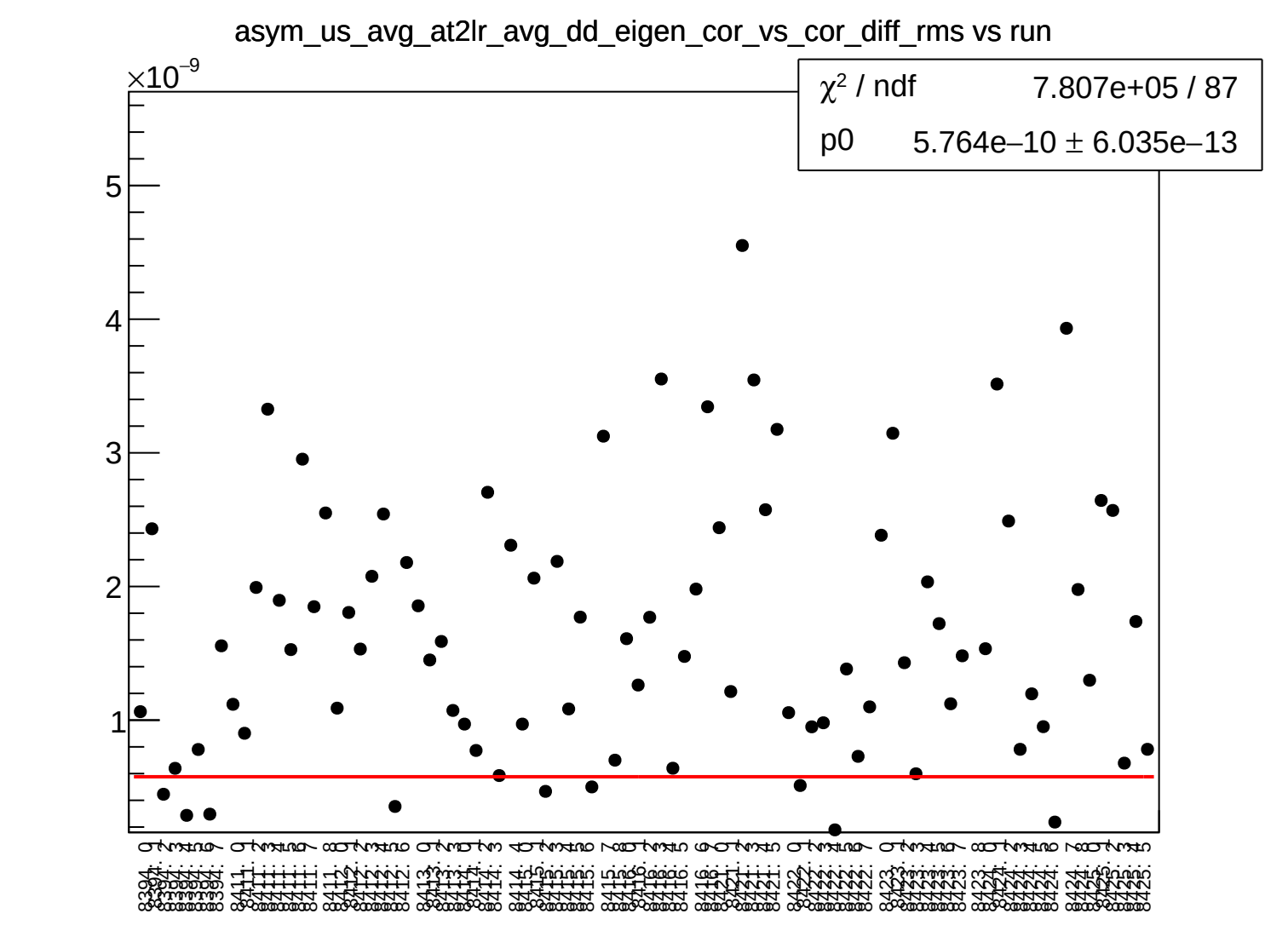

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.91 / 87
p0 0.06314 ± 0.2105
pull
Entries 88
Mean 7535
Std Dev 0
pull1D
Entries 88
Mean −0.001006
Std Dev 1.049

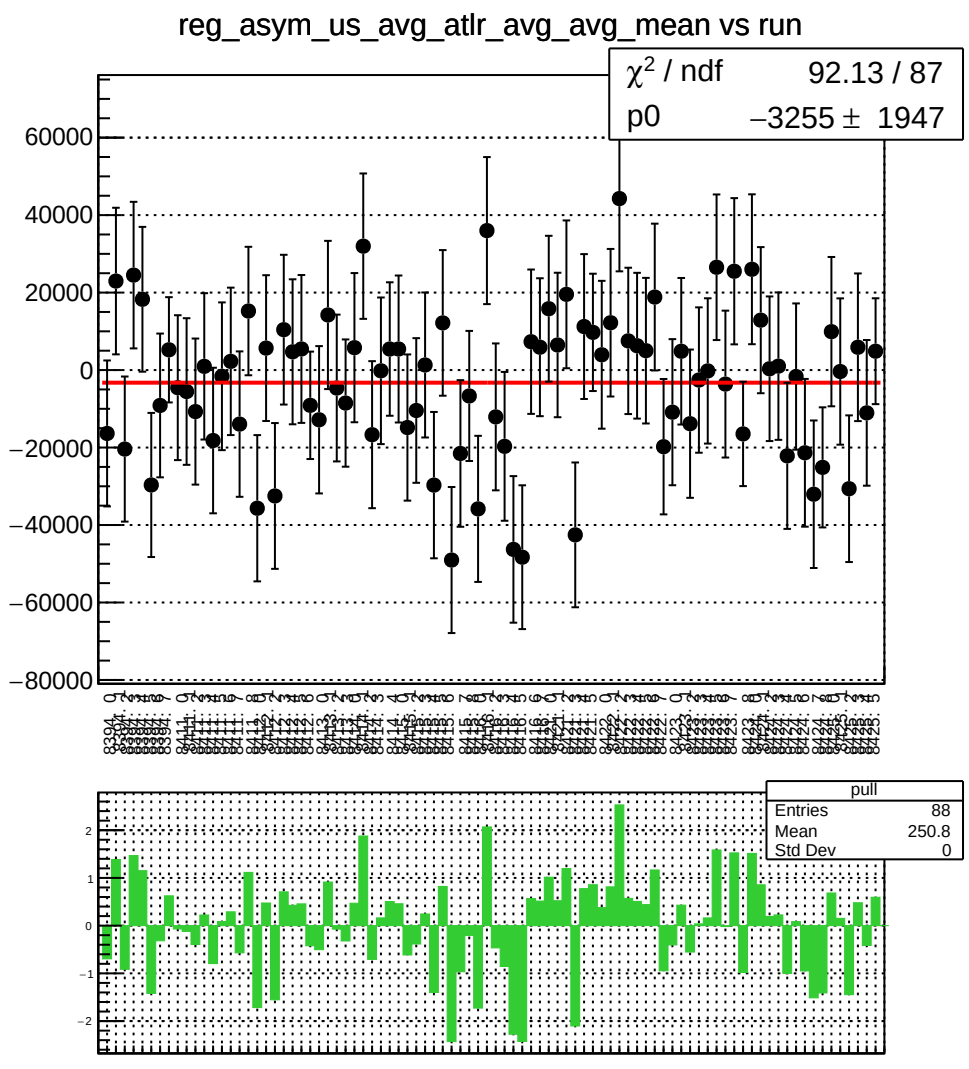

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.361e+04 / 87
p0 192.3 ± 0.1489
350
300
250
200
150

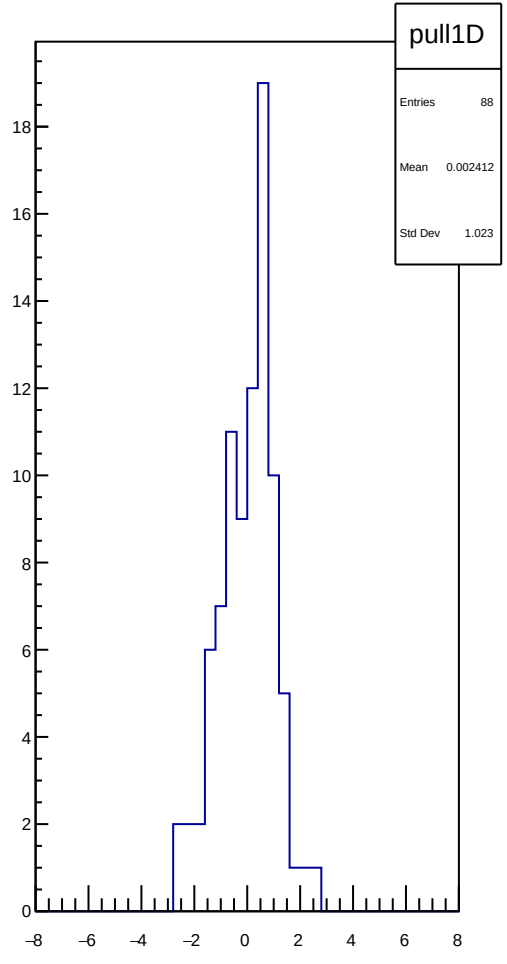

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.91 / 87
p0 0.06314 ± 0.2105
pull
Entries 88
Mean 7535
Std Dev 0
pull1D
Entries 88
Mean −0.001006
Std Dev 1.049

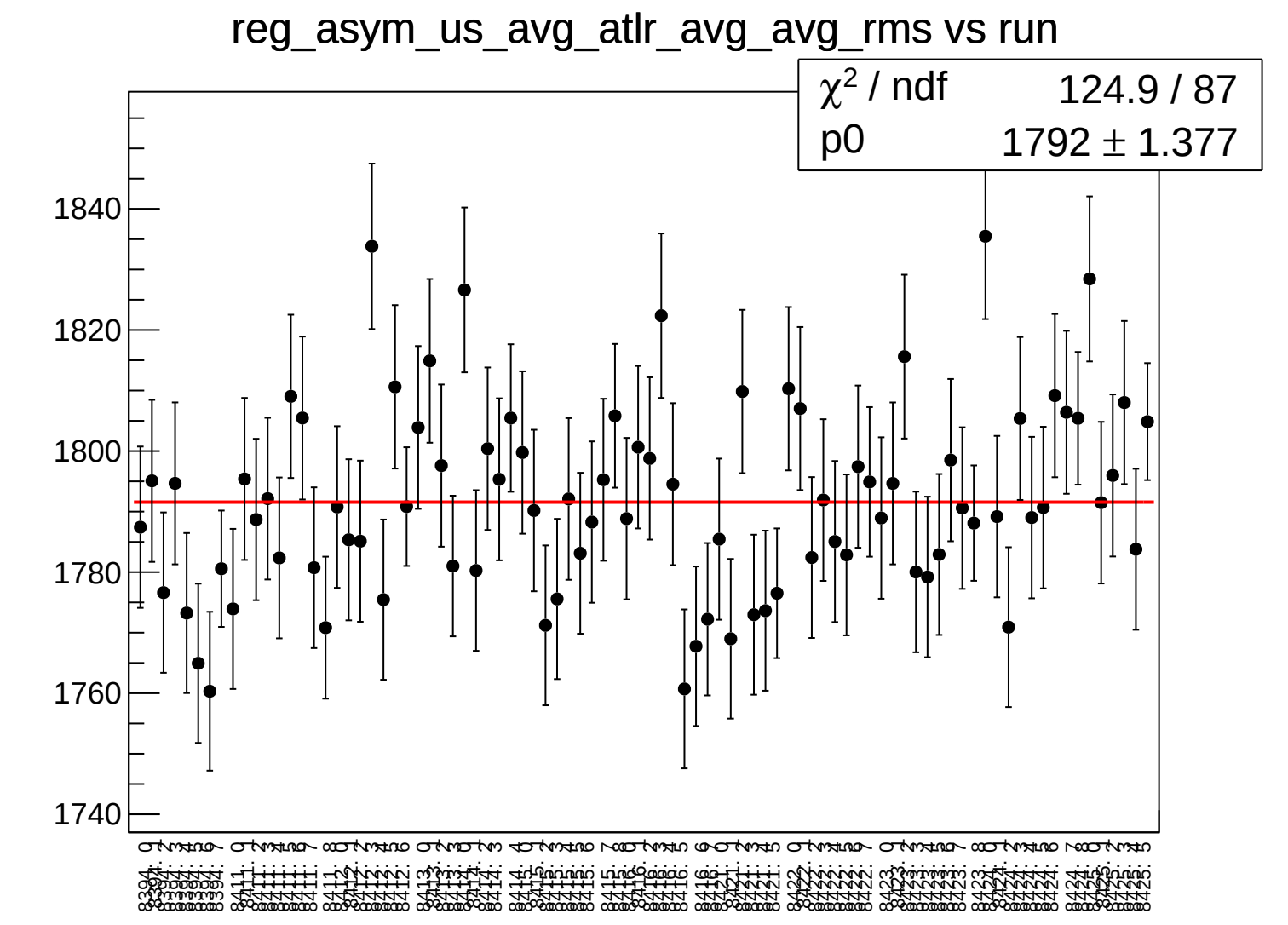

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.361e+04 / 87
p0 192.3 ± 0.1489
350
300
250
200
150

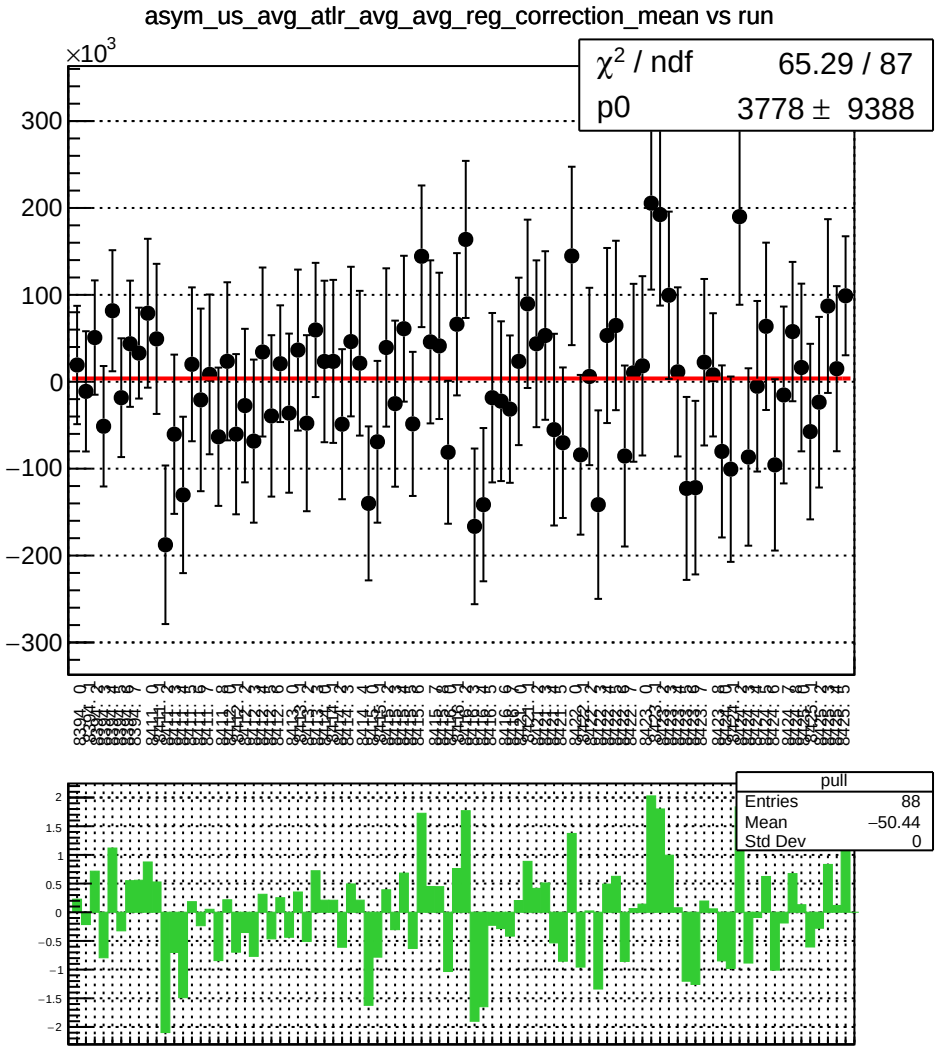

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.6 / 87
p0 −8.693e−13 ± 8.535e−13
pull
Entries 88
Mean 77.31
Std Dev 0
pull1D
Entries 88
Mean 0.07878
Std Dev 1.072

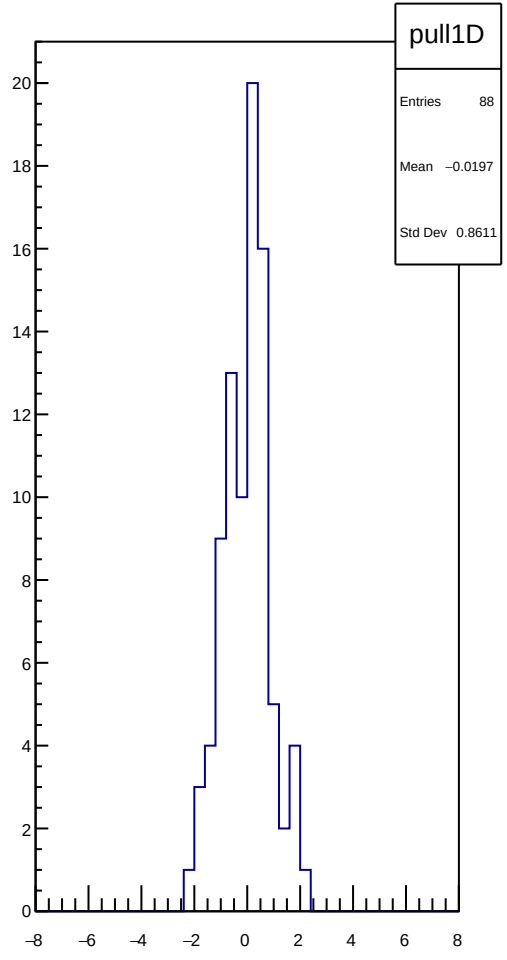

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.807e+05 / 87
p0 5.764e−10 ± 6.035e−13
5
4
3
2
1

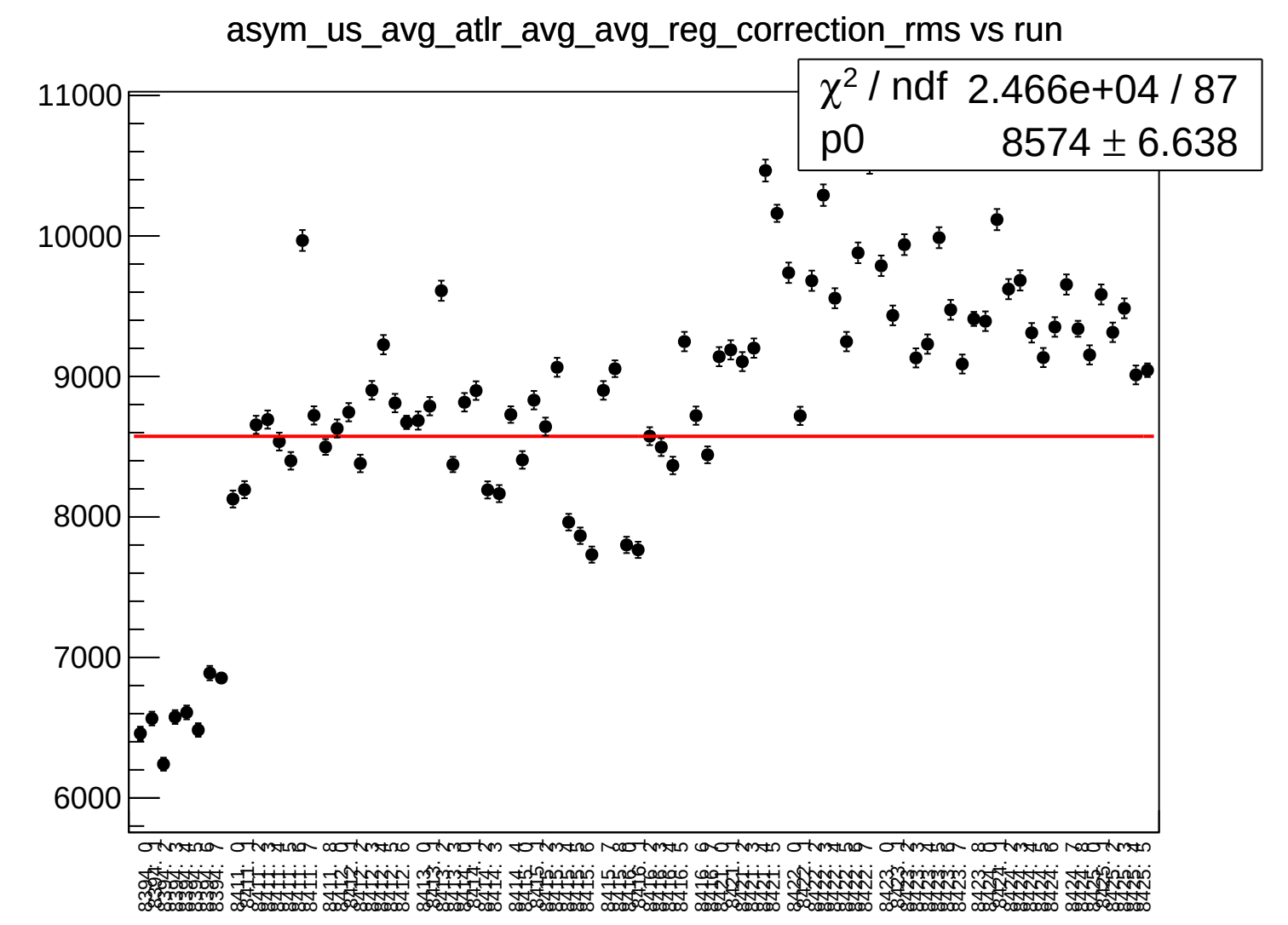

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 92.13 / 87
p0 −3255 ± 1947
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 250.8
Std Dev 0
2
1
0
−1
−2

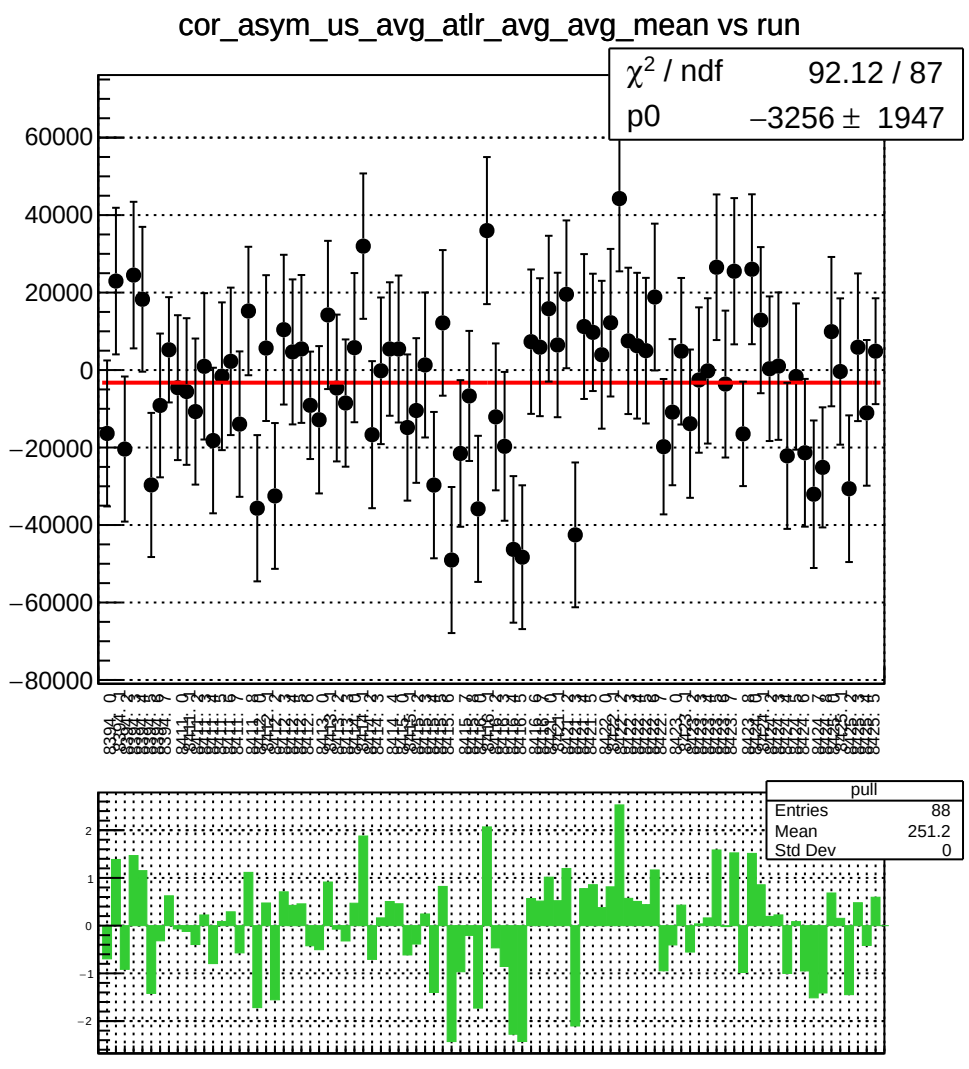

pull1D
Entries 88
Mean 0.002412
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

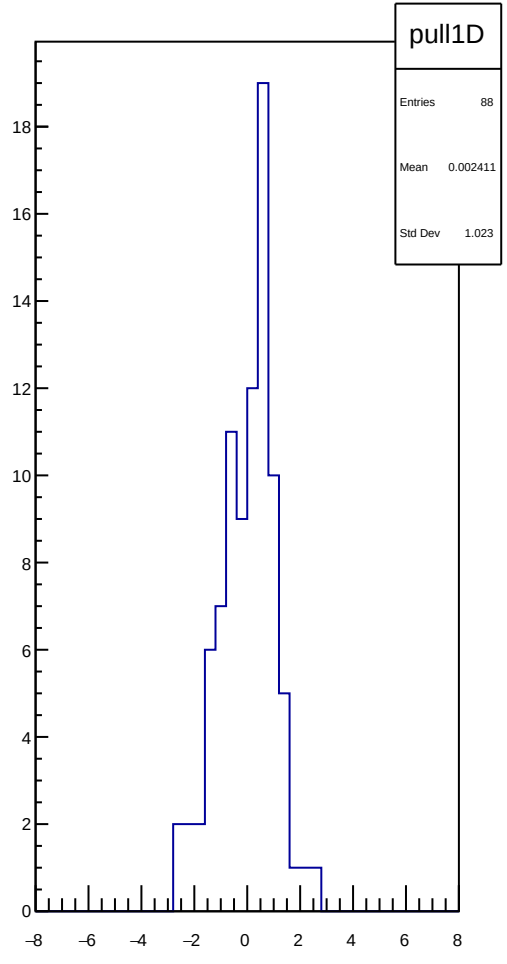

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 124.9 / 87
p0 1792 ± 1.377
1840
1820
1800
1780
1760
1740

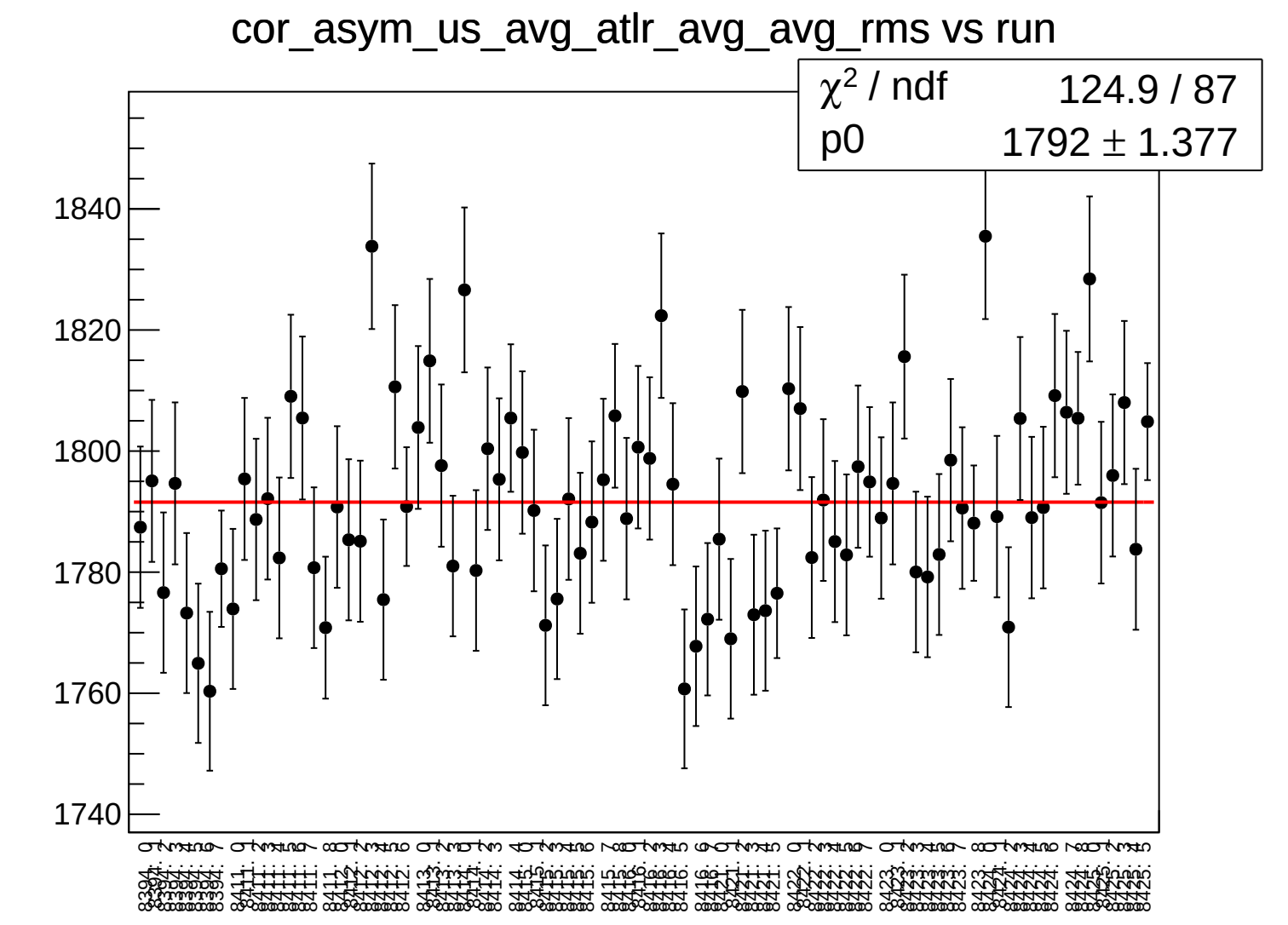

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 65.29 / 87
p0 3778 ± 9388
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −50.44
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

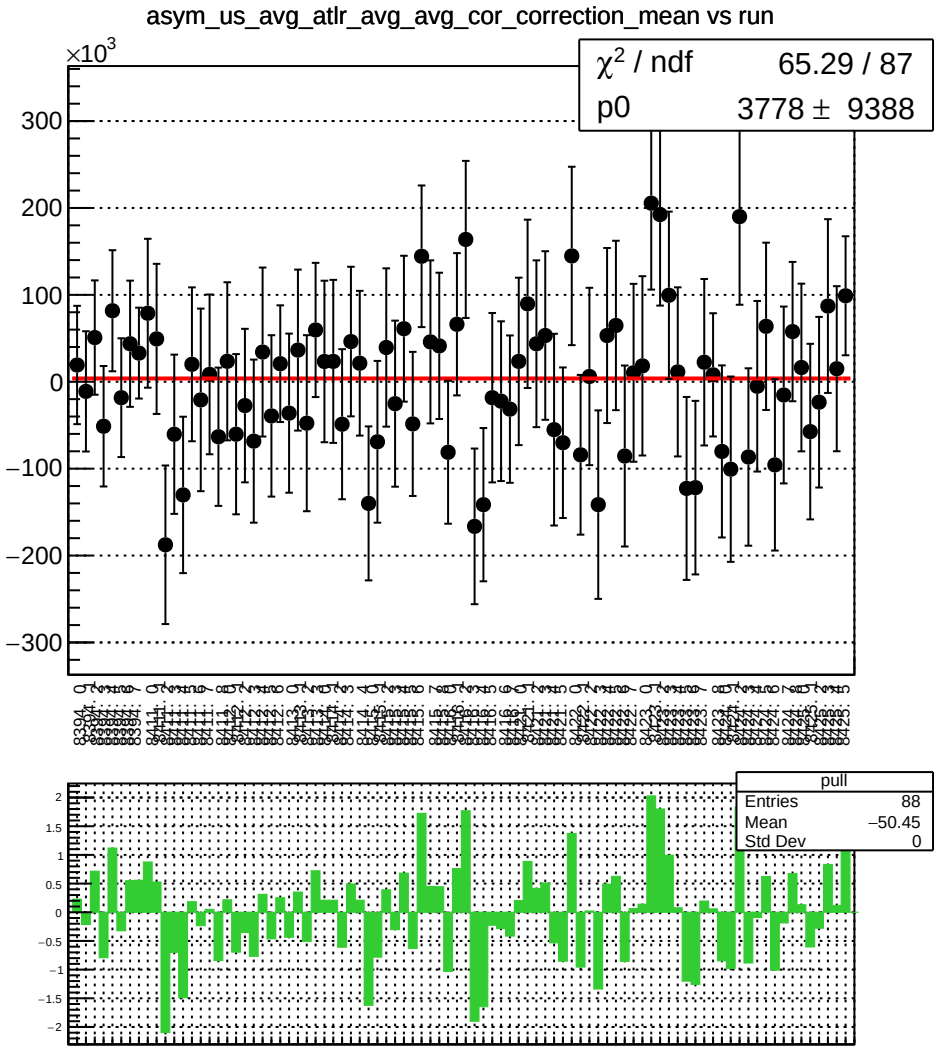

pull1D
Entries 88
Mean −0.0197
Std Dev 0.8611
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

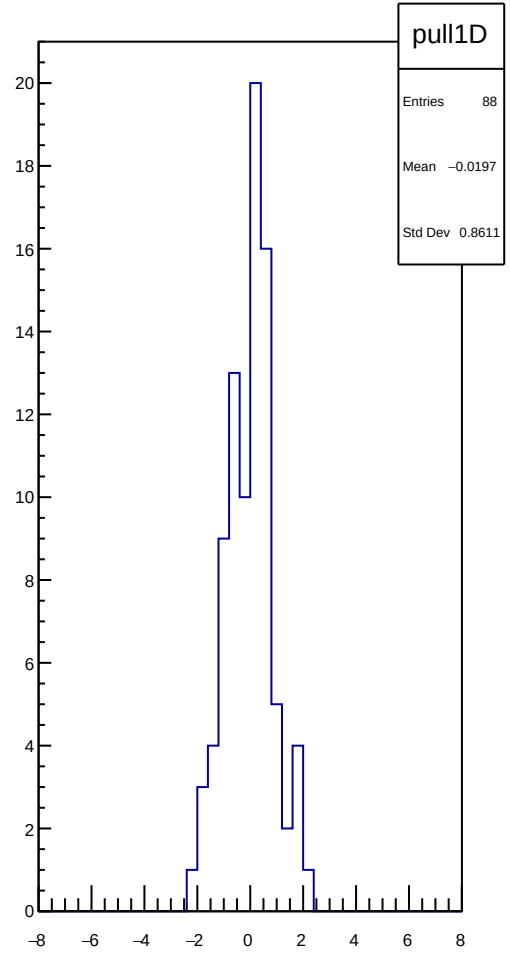

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 2.466e+04 / 87
p0 8574 ± 6.638
11000
10000
9000
8000
7000
6000

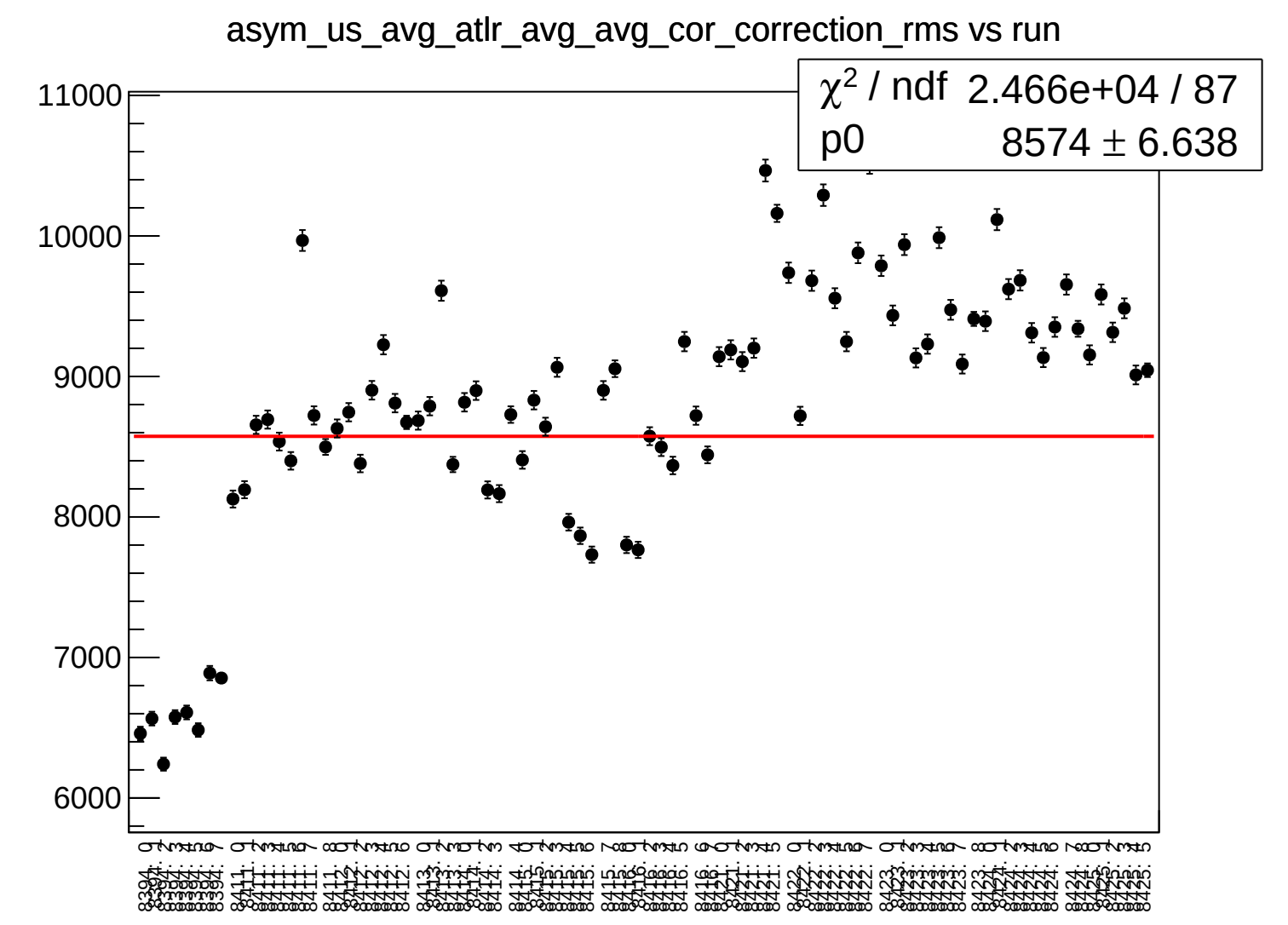

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 92.12 / 87
p0 −3256 ± 1947
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 251.2
Std Dev 0
2
1
0
−1
−2

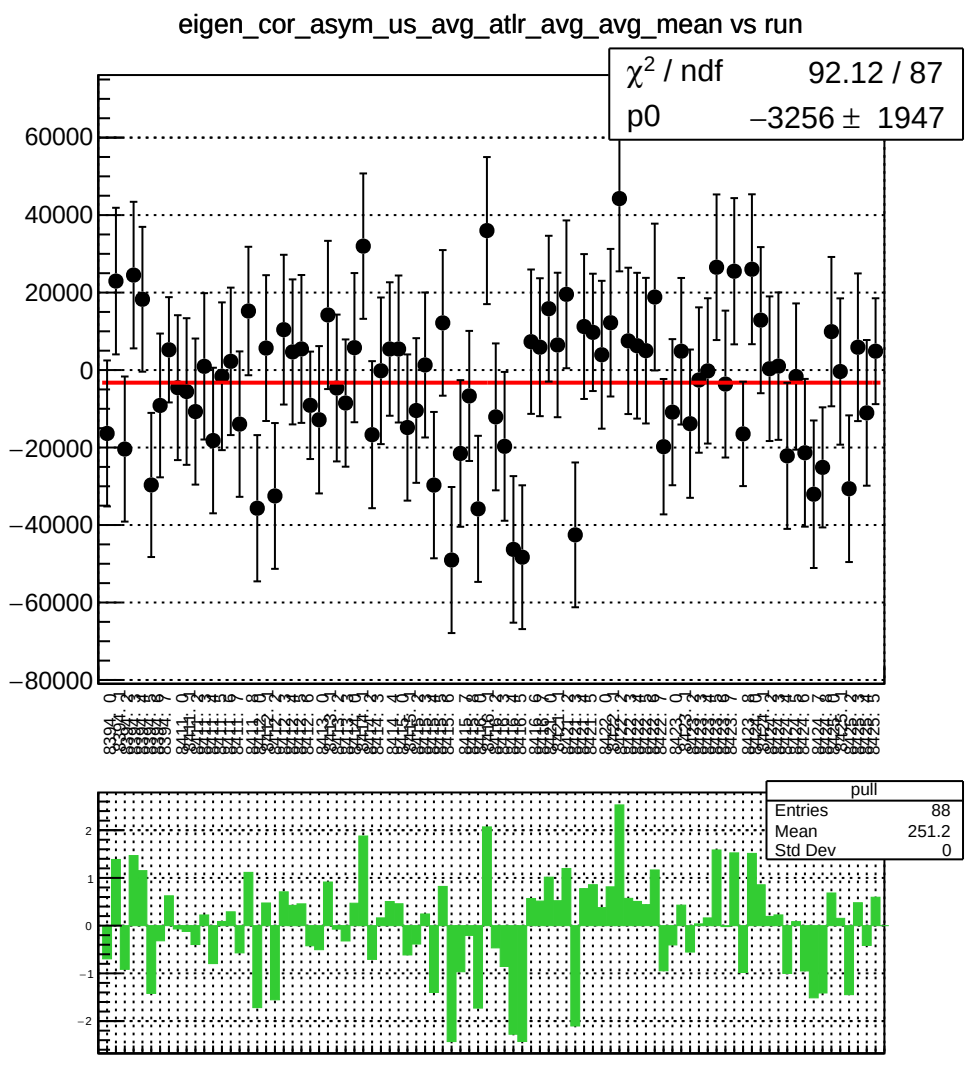

pull1D
Entries 88
Mean 0.002411
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

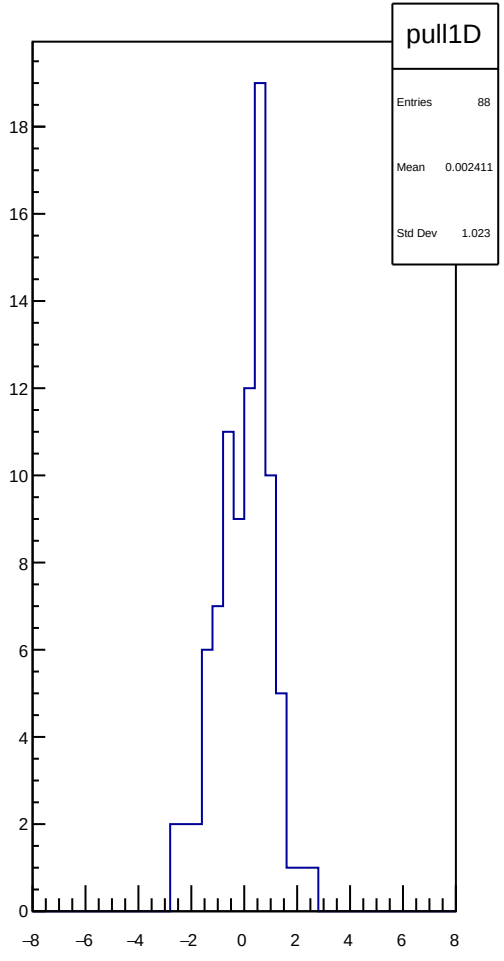

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 124.9 / 87
p0 1792 ± 1.377
1840
1820
1800
1780
1760
1740

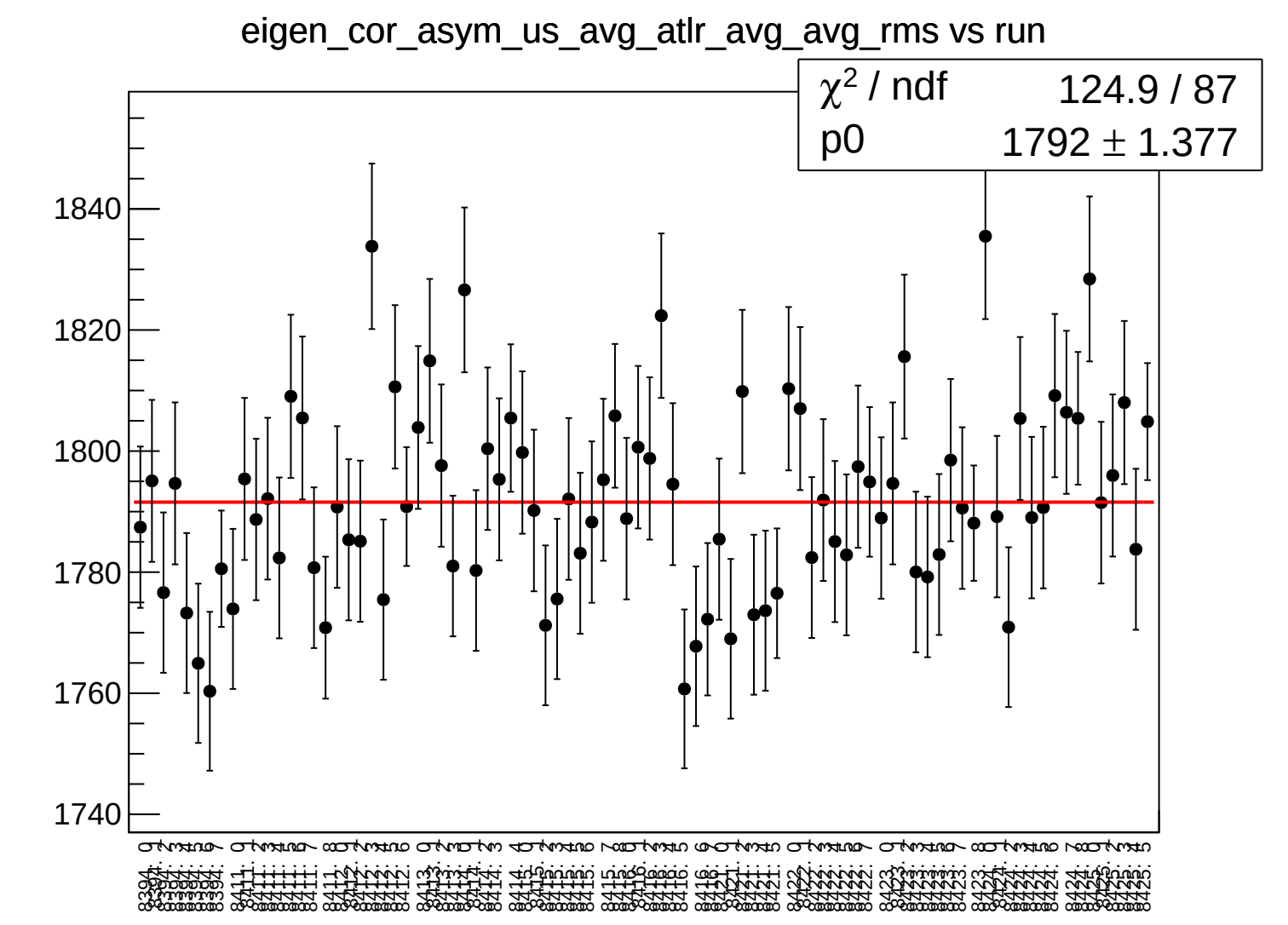

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 65.29 / 87
p0 3778 ± 9388
pull
Entries 88
Mean −50.45
Std Dev 0

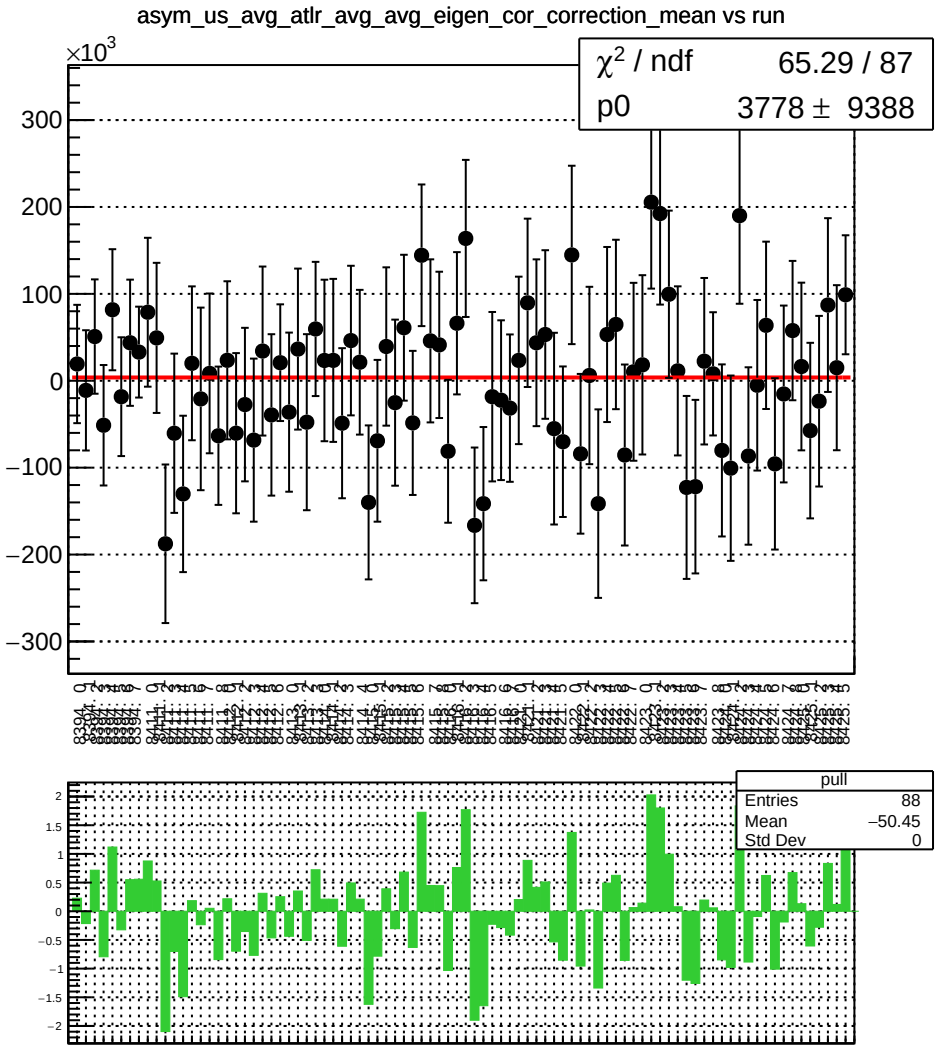

pull1D
Entries 88
Mean −0.0197
Std Dev 0.8611

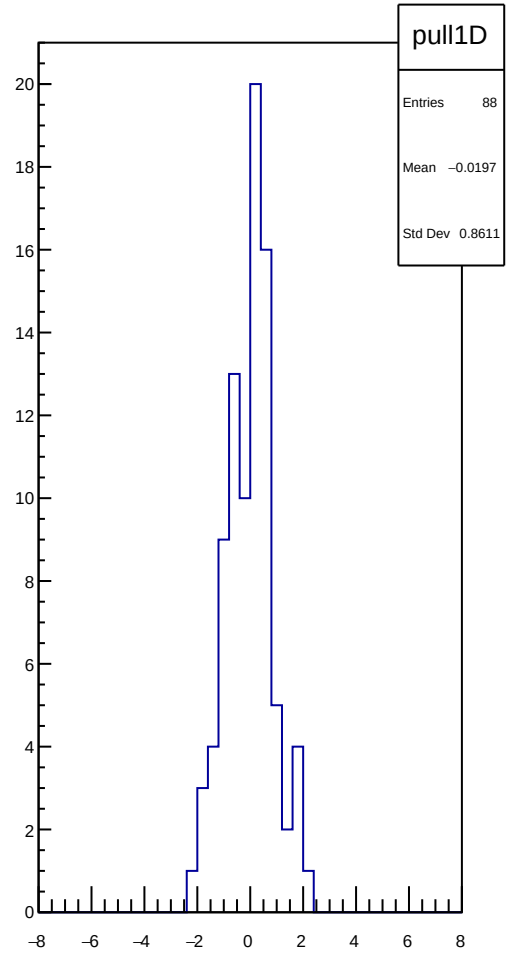

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 2.466e+04 / 87
p0 8574 ± 6.638
11000
10000
9000
8000
7000
6000

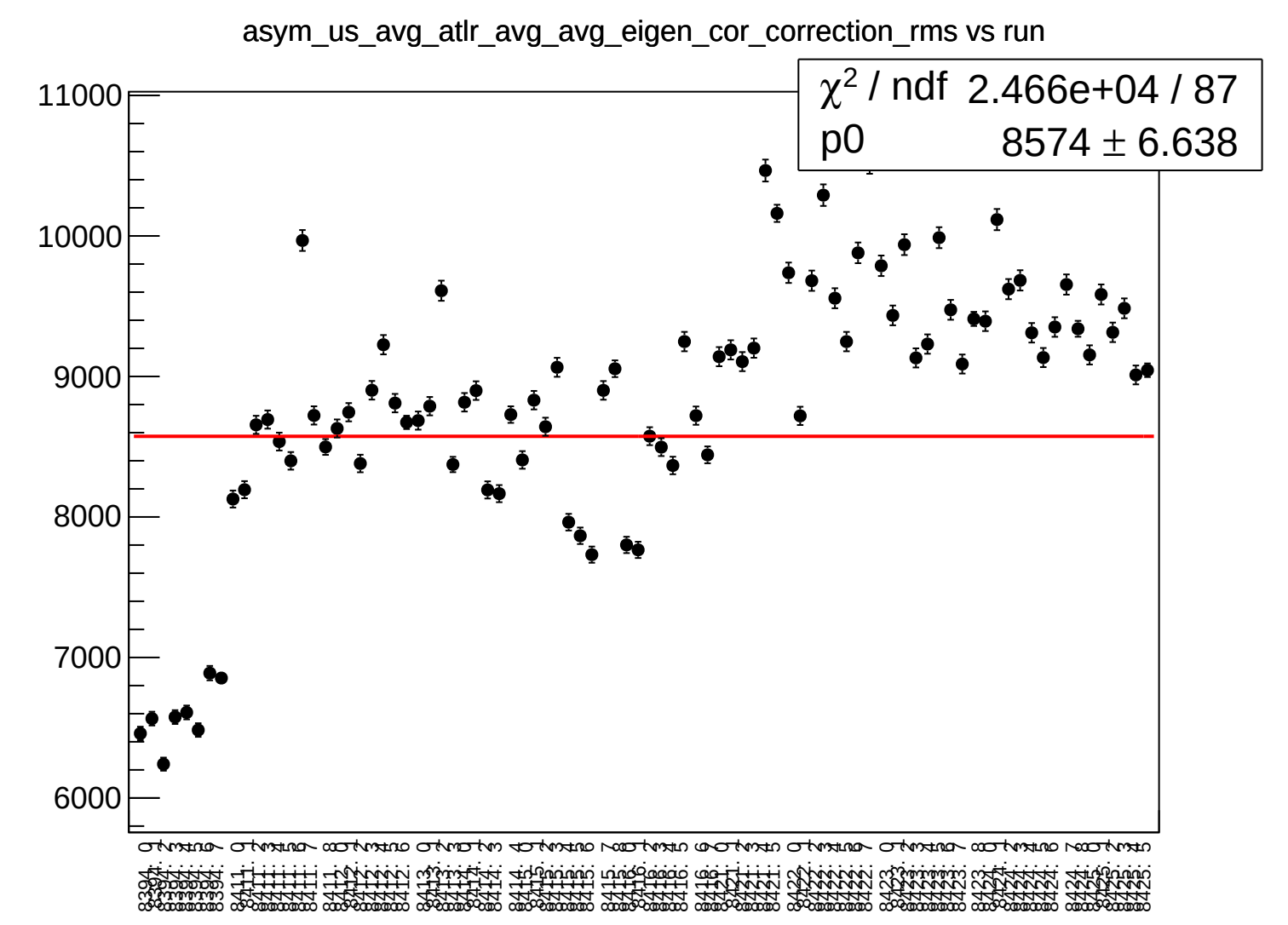

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 92.12 / 87
p0 −3256 ± 1947
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 251.2
Std Dev 0
2
1
0
−1
−2

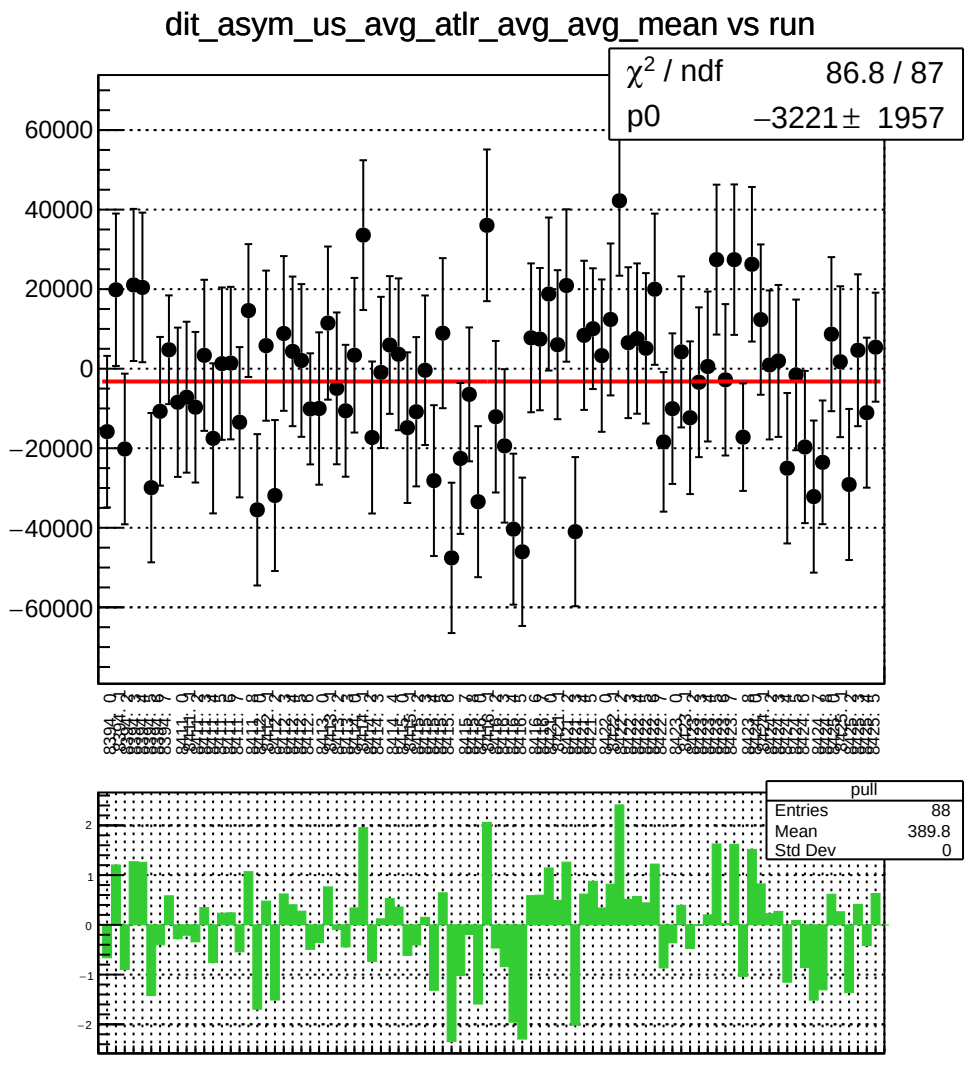

pull1D
Entries 88
Mean 0.002411
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

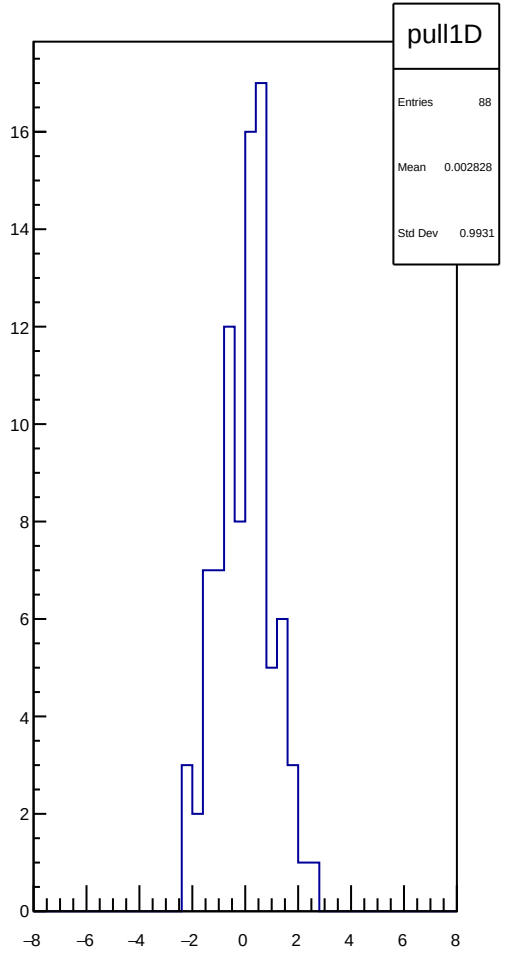

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 124.9 / 87
p0 1792 ± 1.377
1840
1820
1800
1780
1760
1740

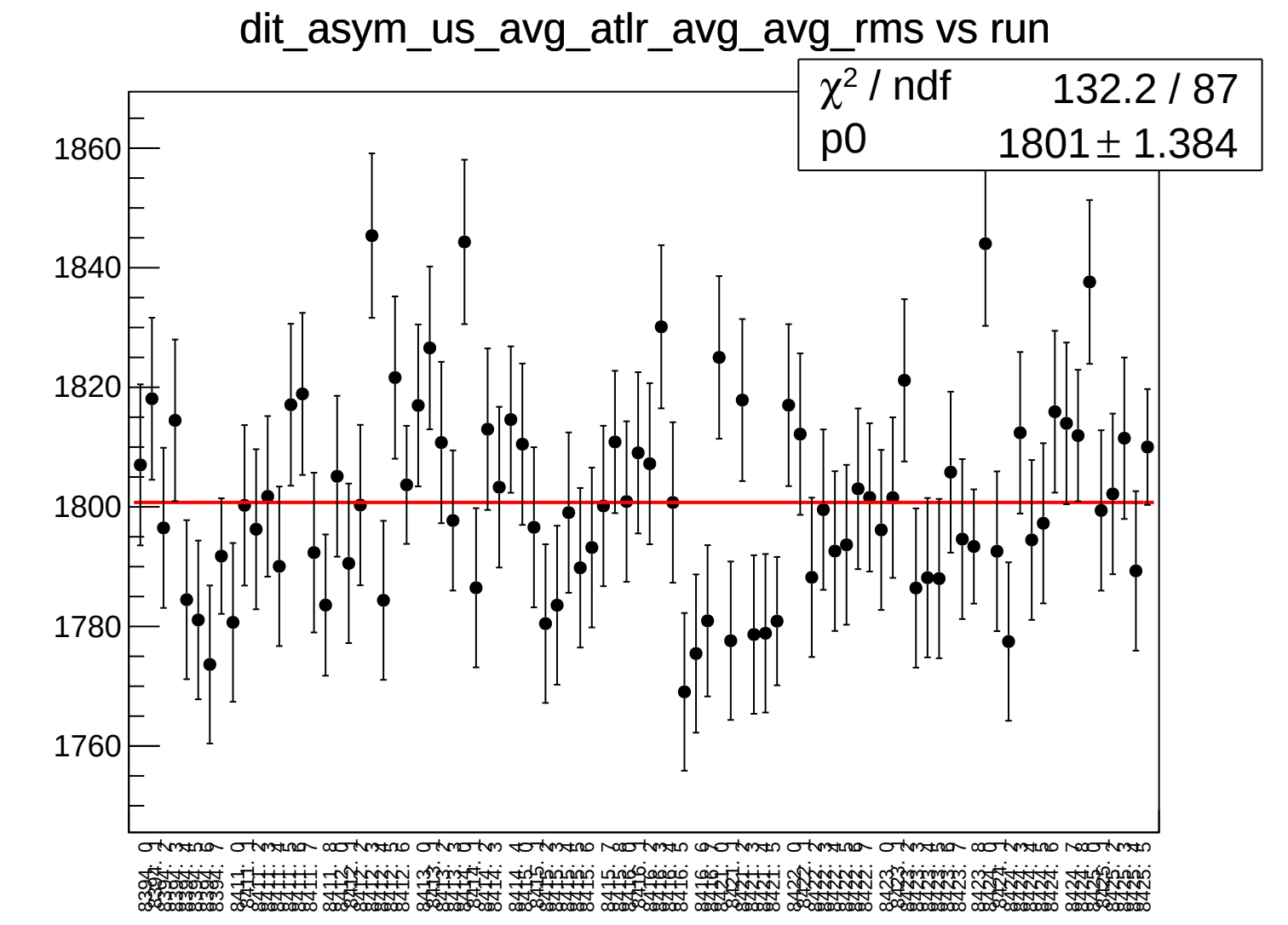

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 65.29 / 87
p0 3778 ± 9388
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −50.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

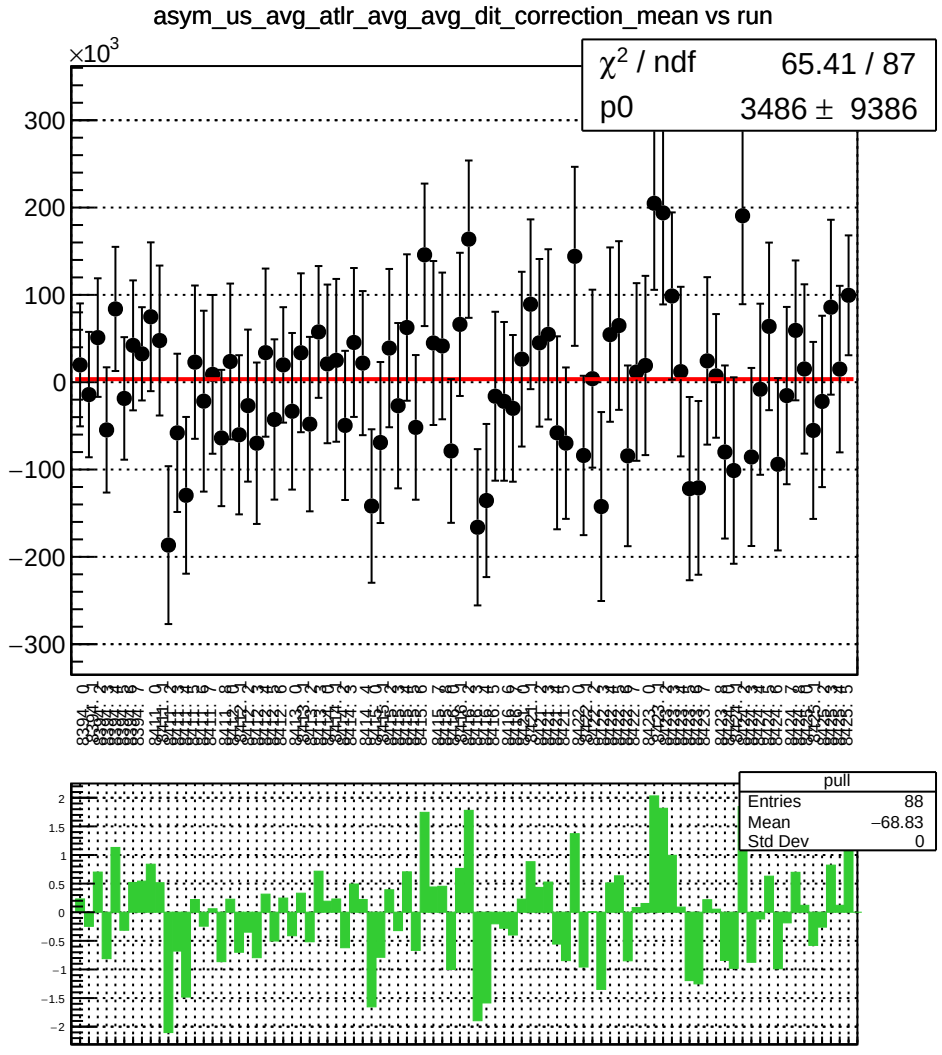

pull1D
Entries 88
Mean −0.0197
Std Dev 0.8611
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

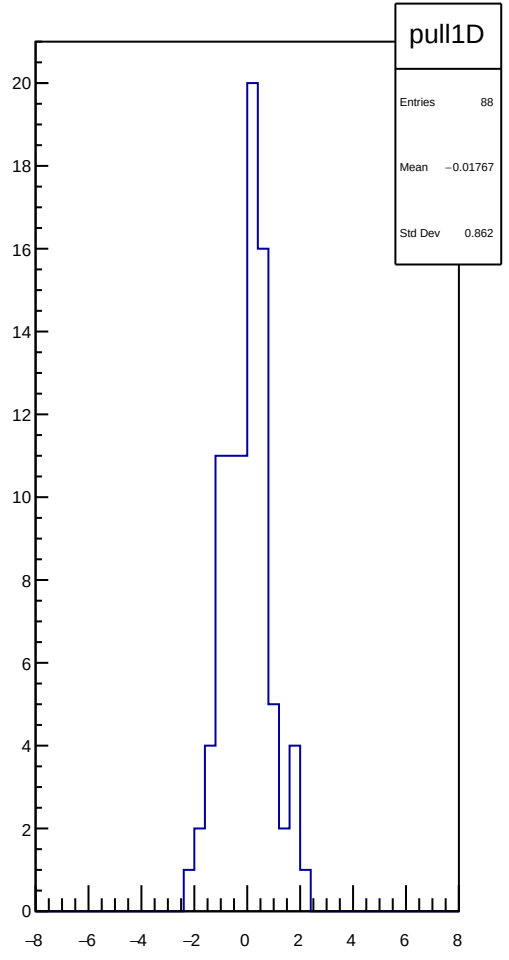

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.466e+04 / 87
p0 8574 ± 6.638
11000
10000
9000
8000
7000
6000

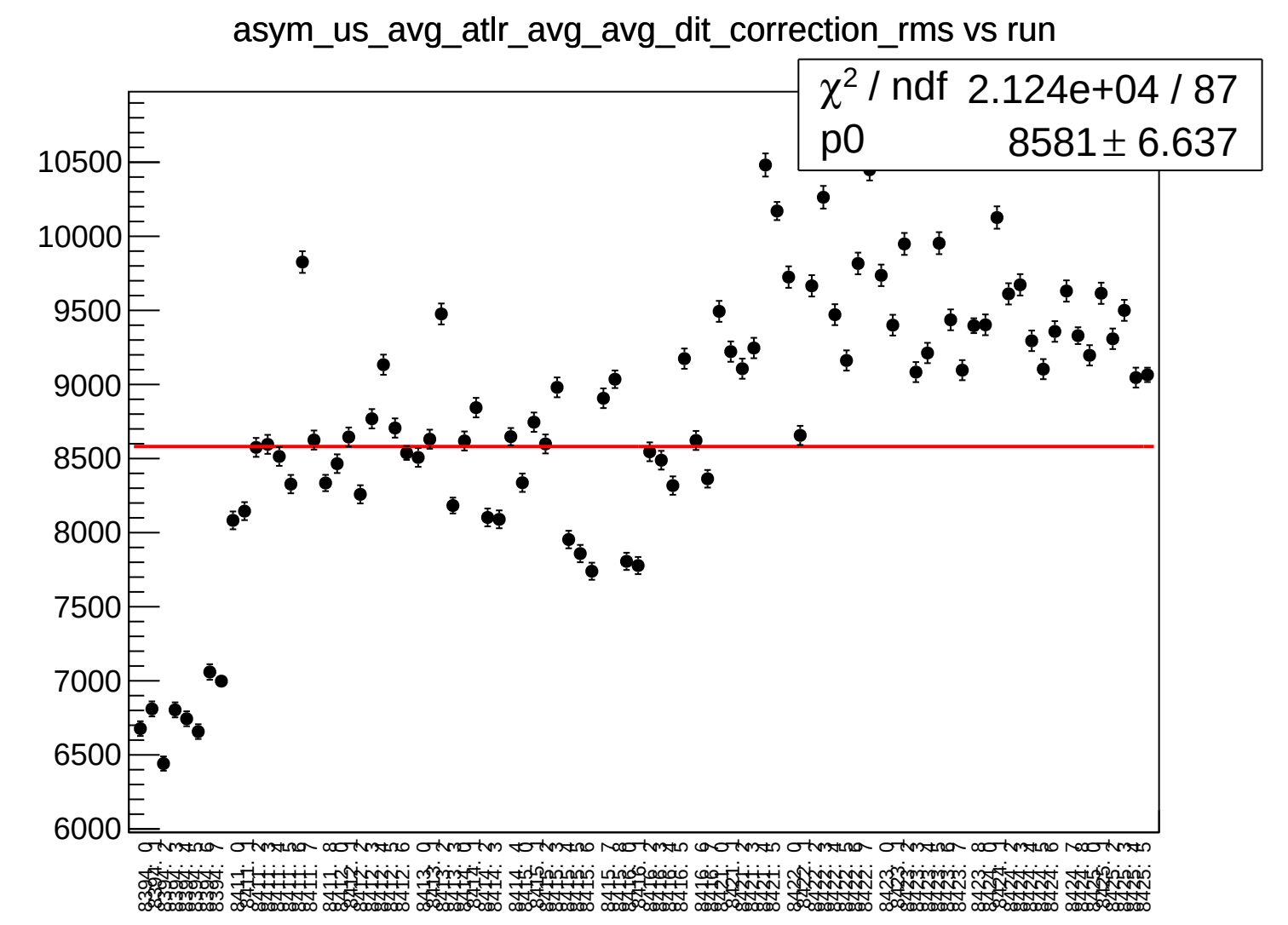

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 86.8 / 87
p0 −3221 ± 1957
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 389.8
Std Dev 0
2
1
0
−1
−2

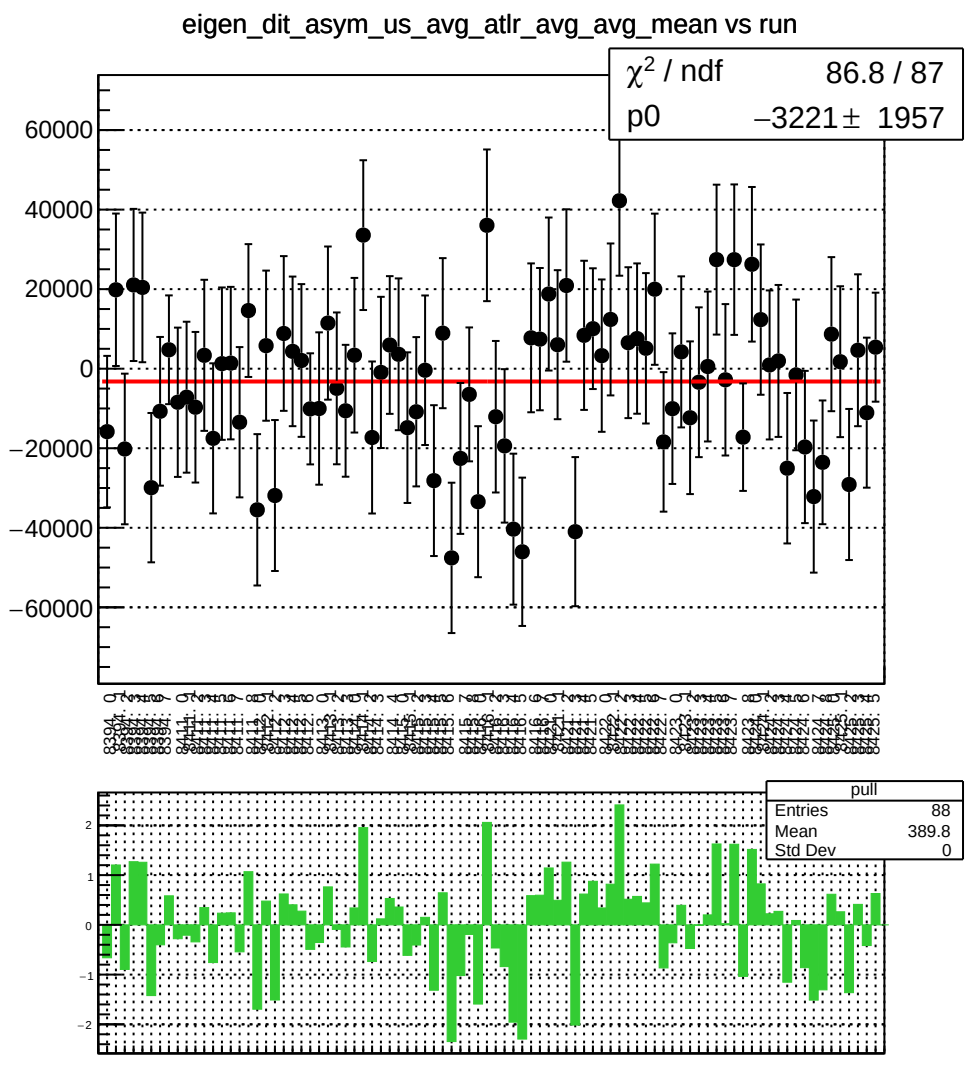

pull1D
Entries 88
Mean 0.002828
Std Dev 0.9931
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

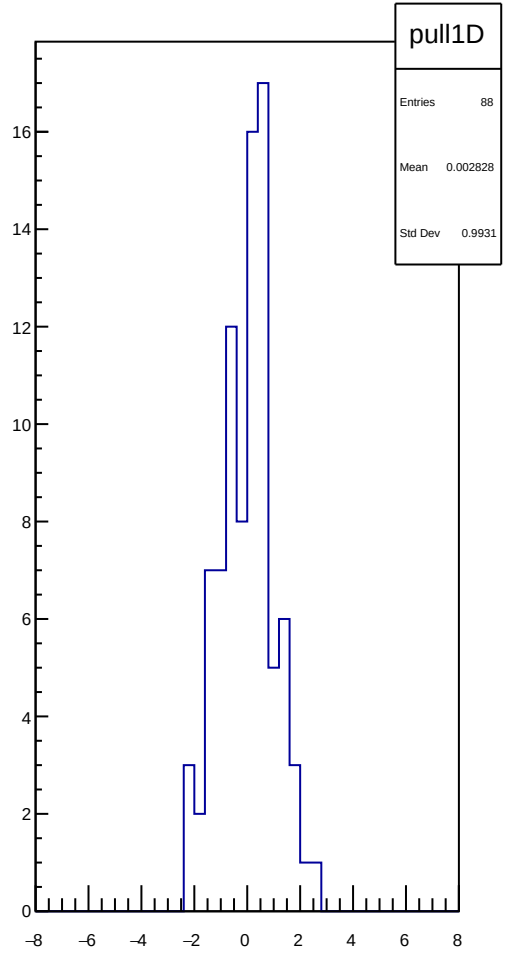

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 132.2 / 87
p0 1801 ± 1.384
1860
1840
1820
1800
1780
1760

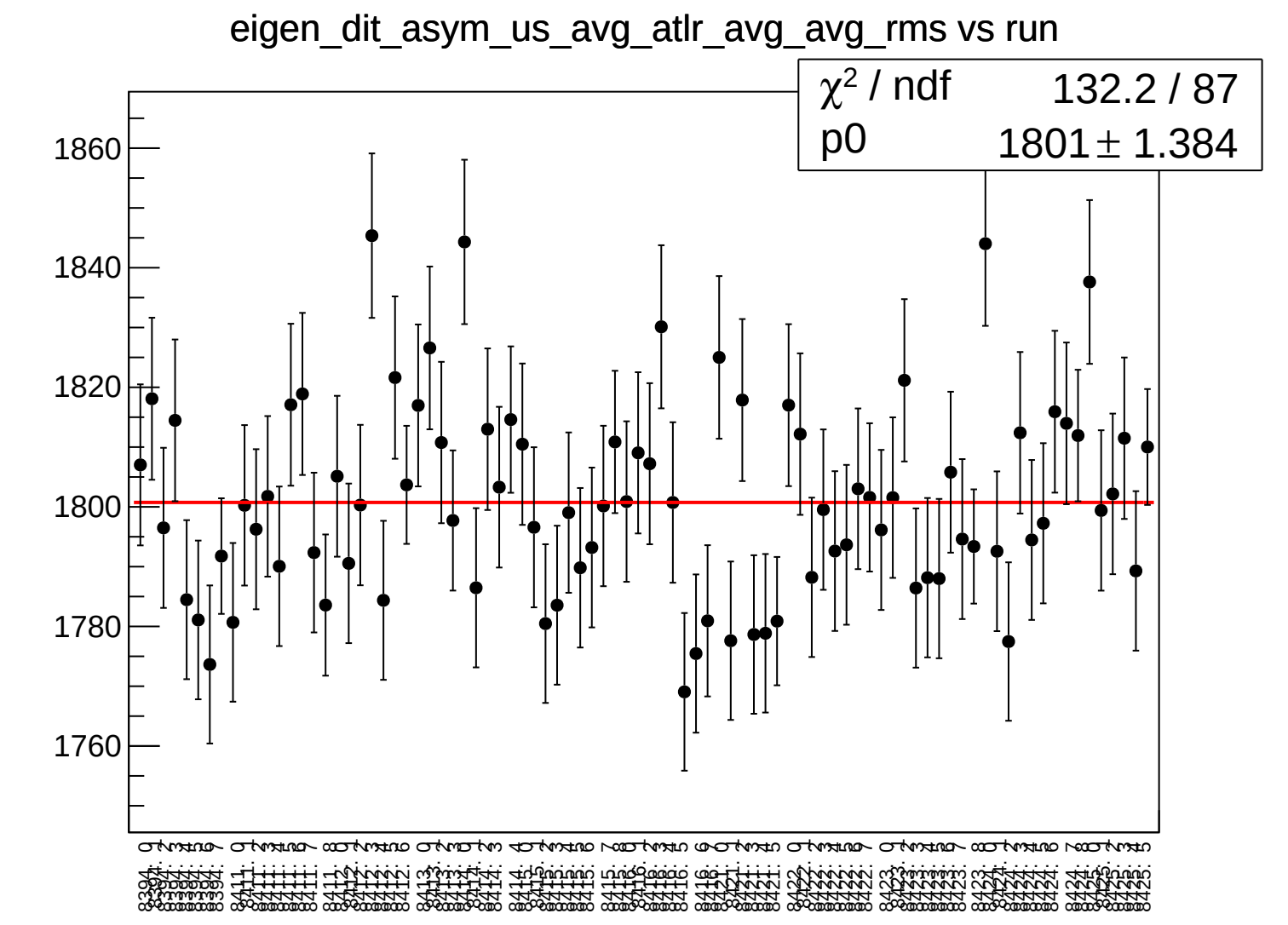

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 65.41 / 87
p0 3486 ± 9386
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −68.83
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

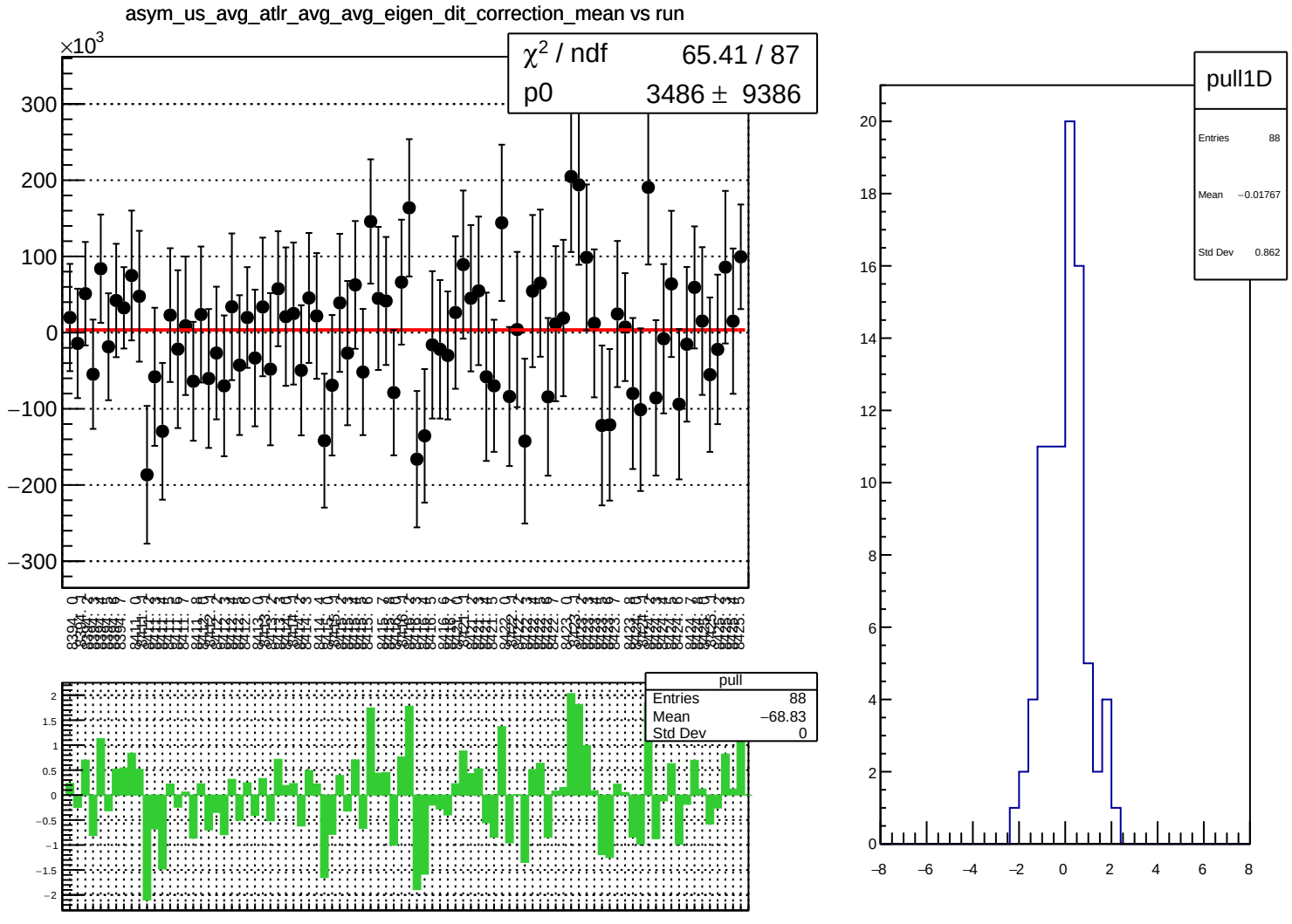

pull1D
Entries 88
Mean −0.01767
Std Dev 0.862
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

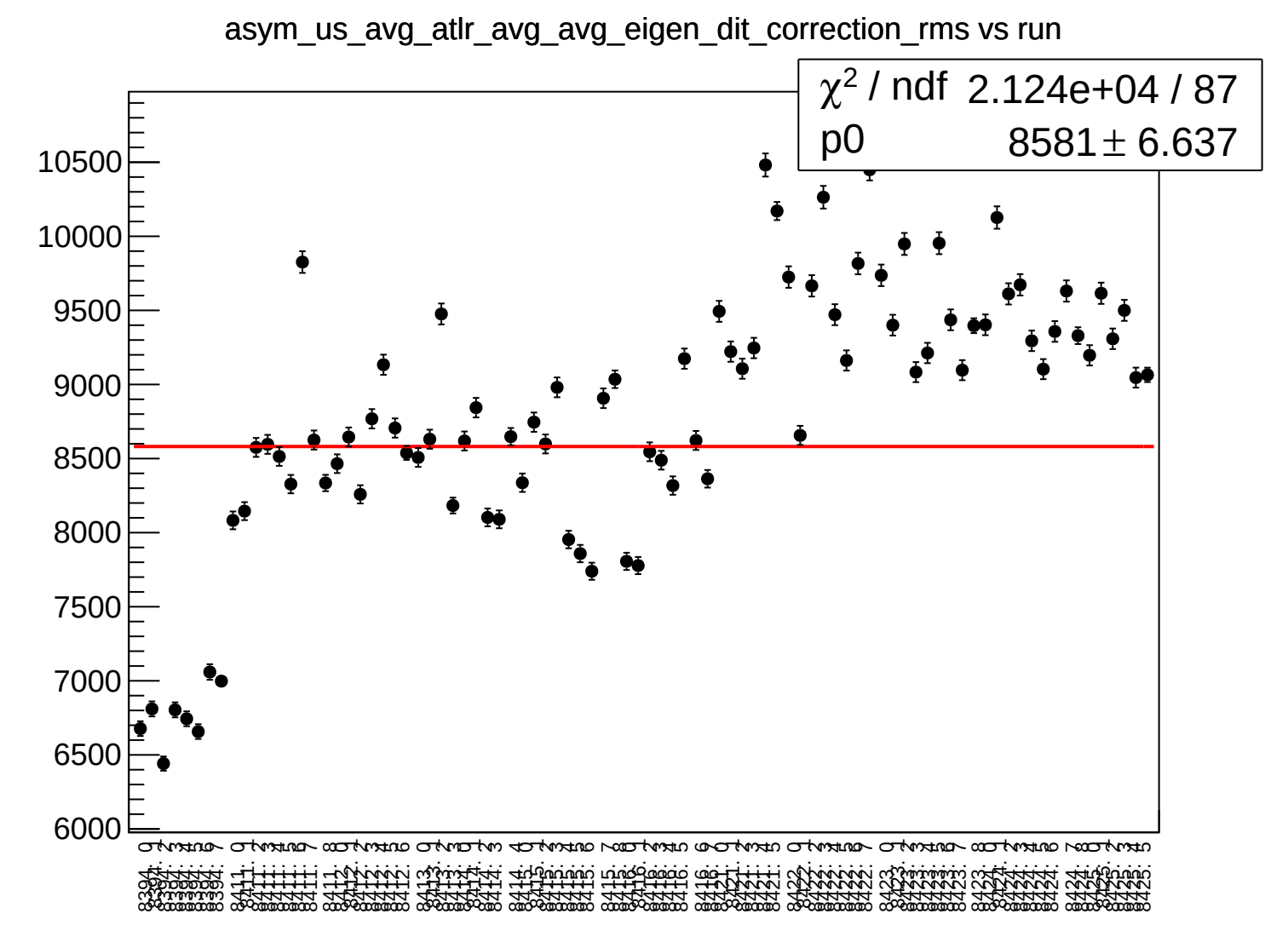

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 2.124e+04 / 87
p0 8581 ± 6.637
10500
10000
9500
9000
8500
8000
7500
7000
6500
6000

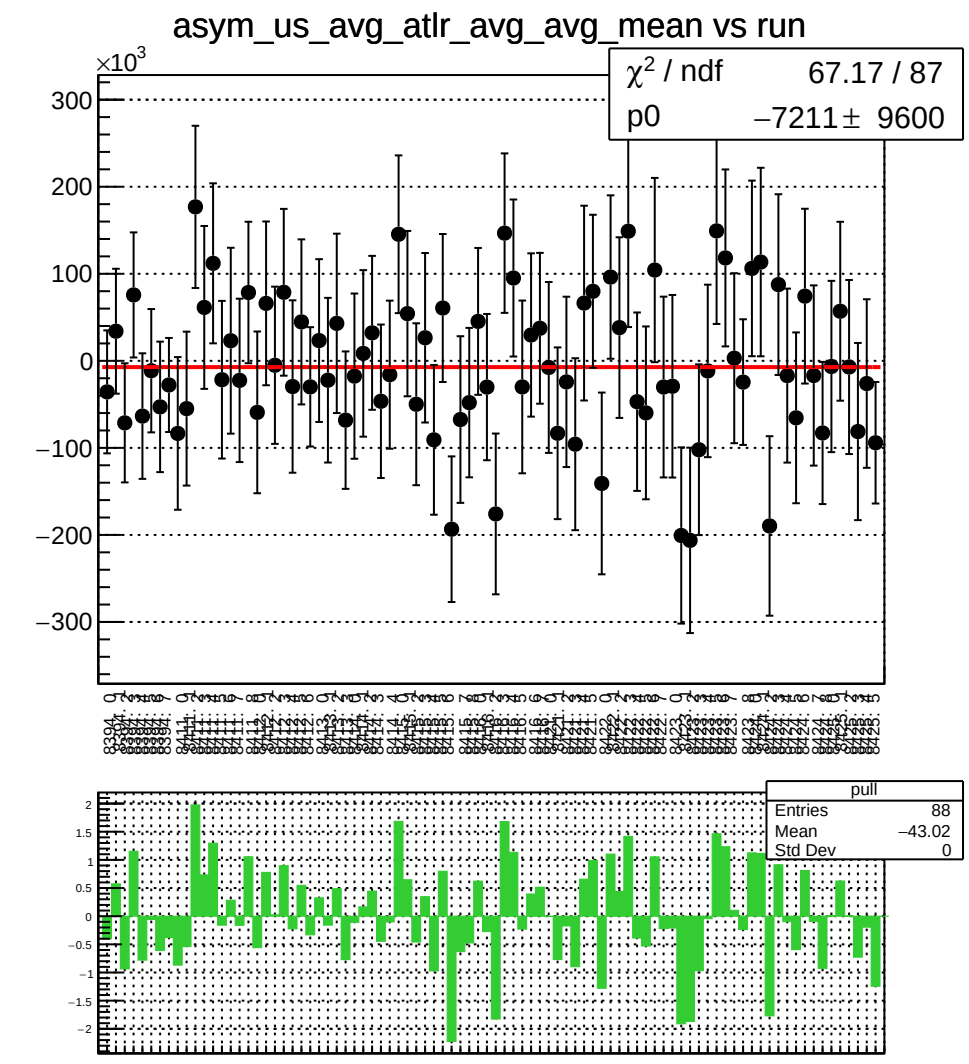

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 86.8 / 87
p0 −3221 ± 1957
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 389.8
Std Dev 0
2
1
0
−1
−2

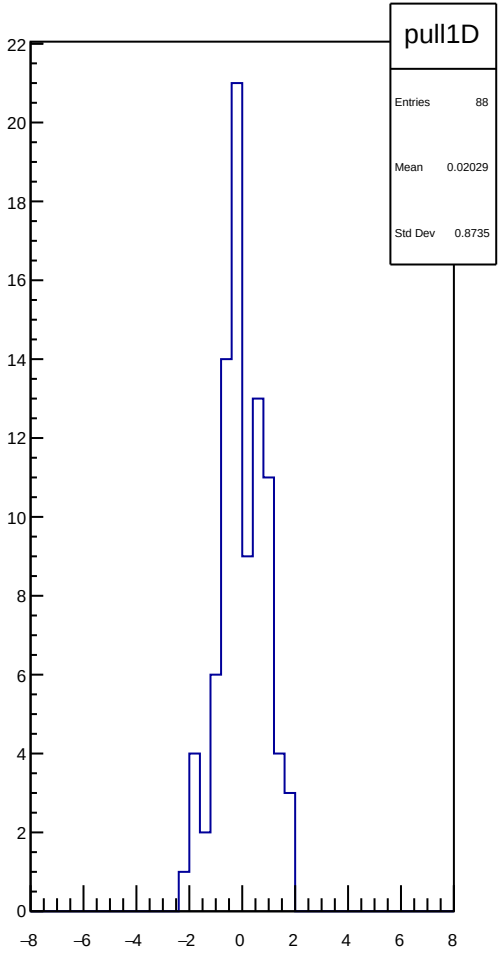

pull1D
Entries 88
Mean 0.002828
Std Dev 0.9931
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

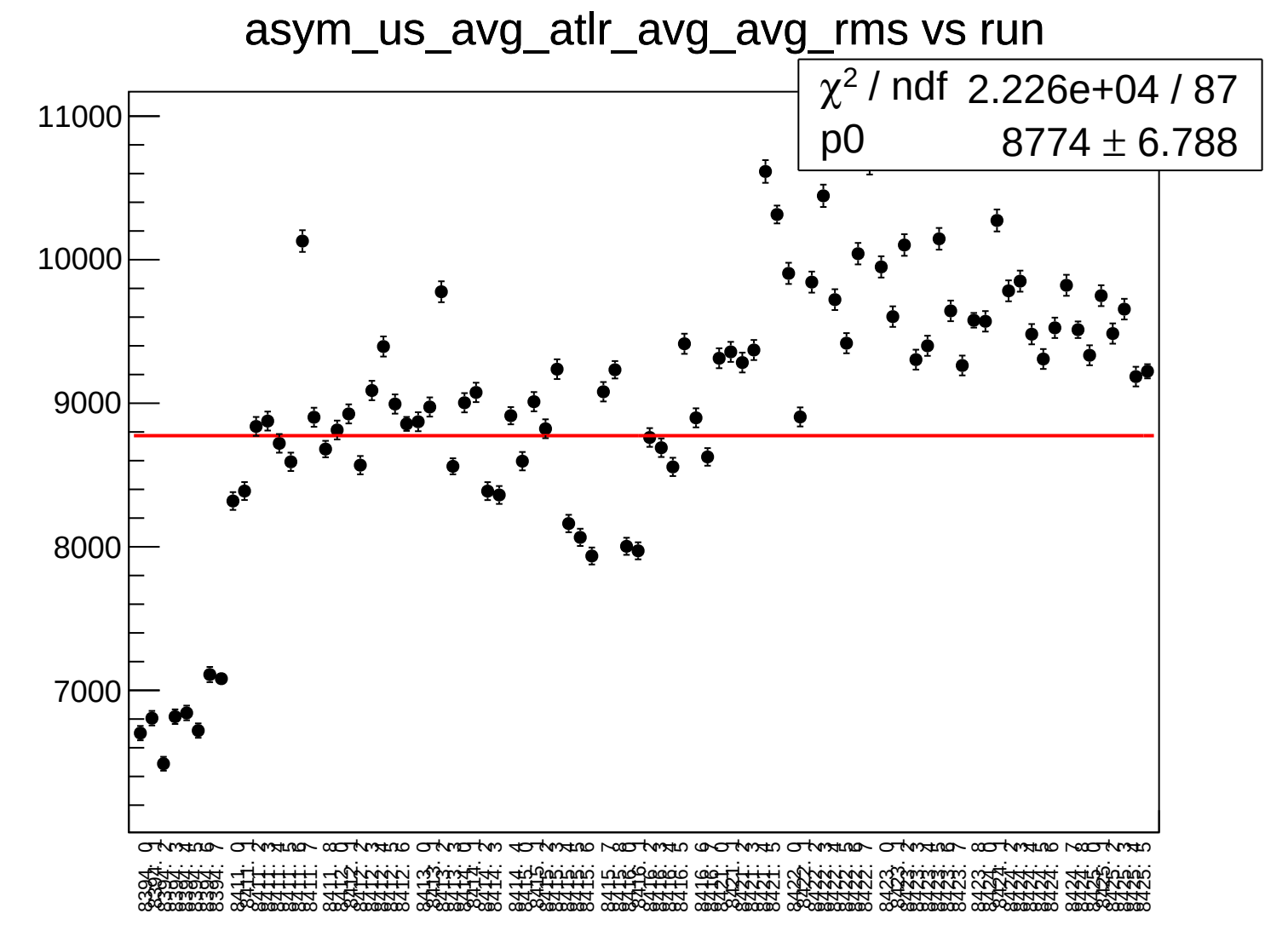

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 132.2 / 87
p0 1801 ± 1.384
1860
1840
1820
1800
1780
1760

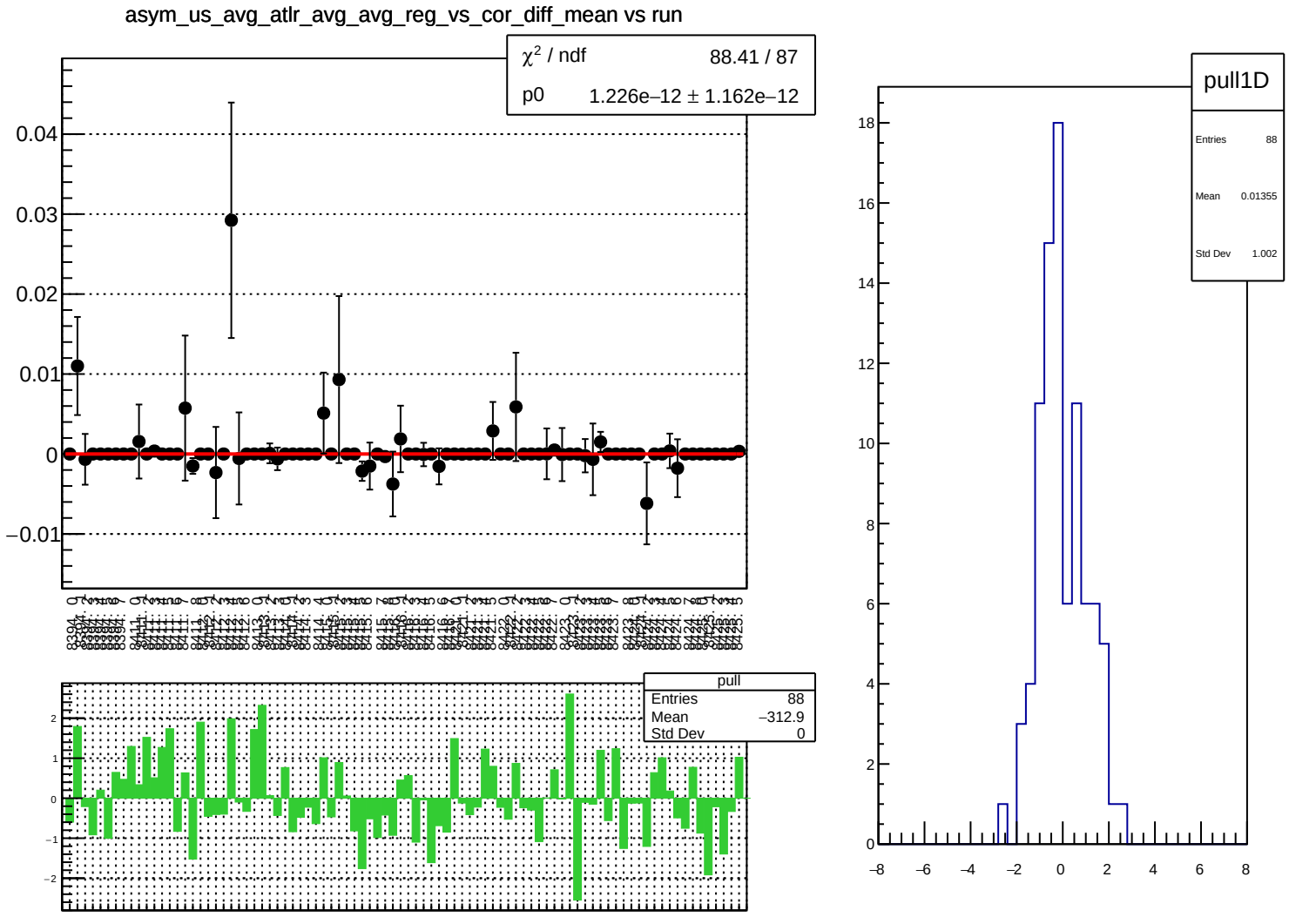

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 65.41 / 87
p0 3486 ± 9386
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −68.83
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.01767
Std Dev 0.862
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

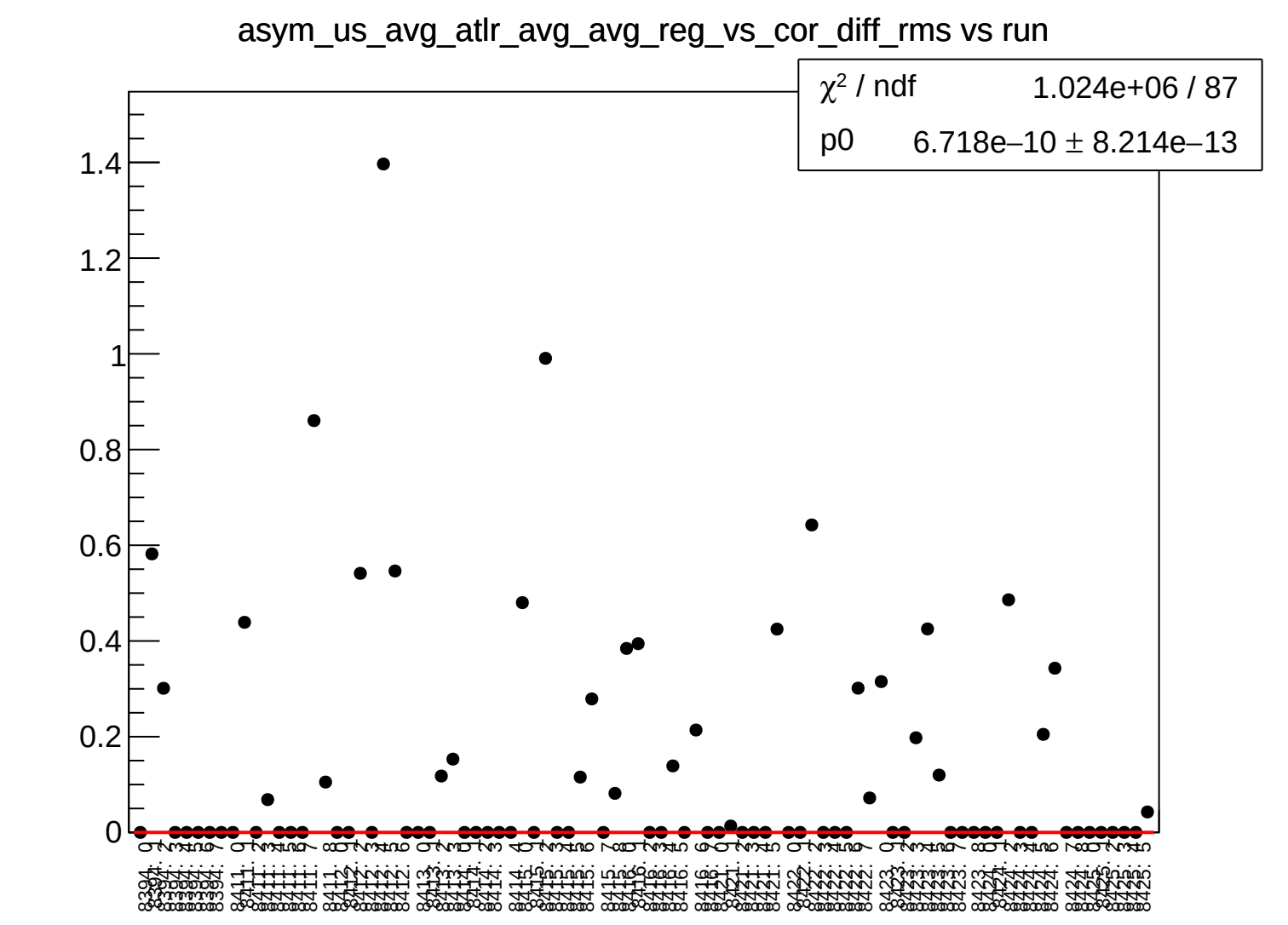

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.124e+04 / 87
p0 8581 ± 6.637
10500
10000
9500
9000
8500
8000
7500
7000
6500
6000

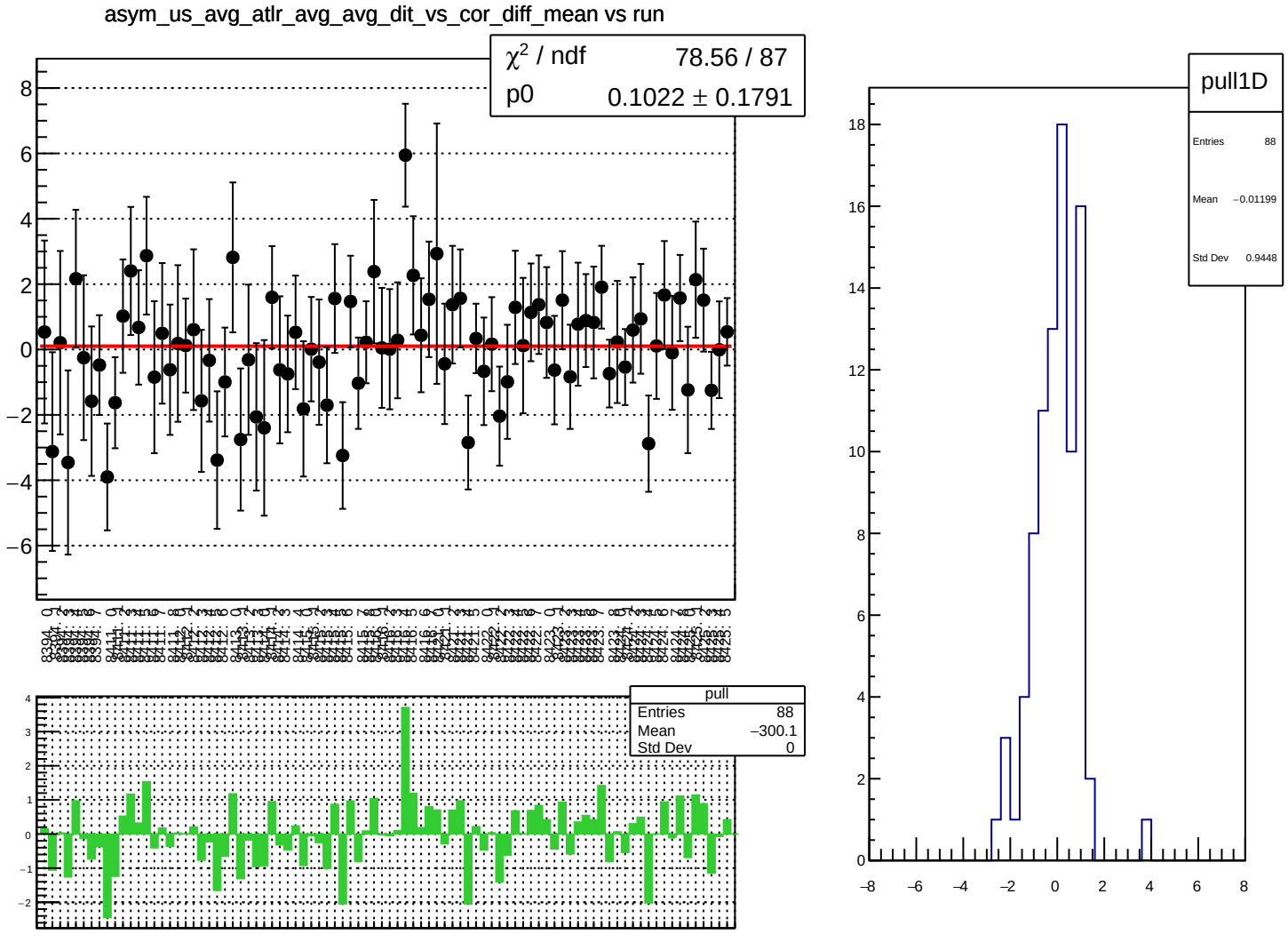

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 67.17 / 87
p0 −7211 ± 9600
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −43.02
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

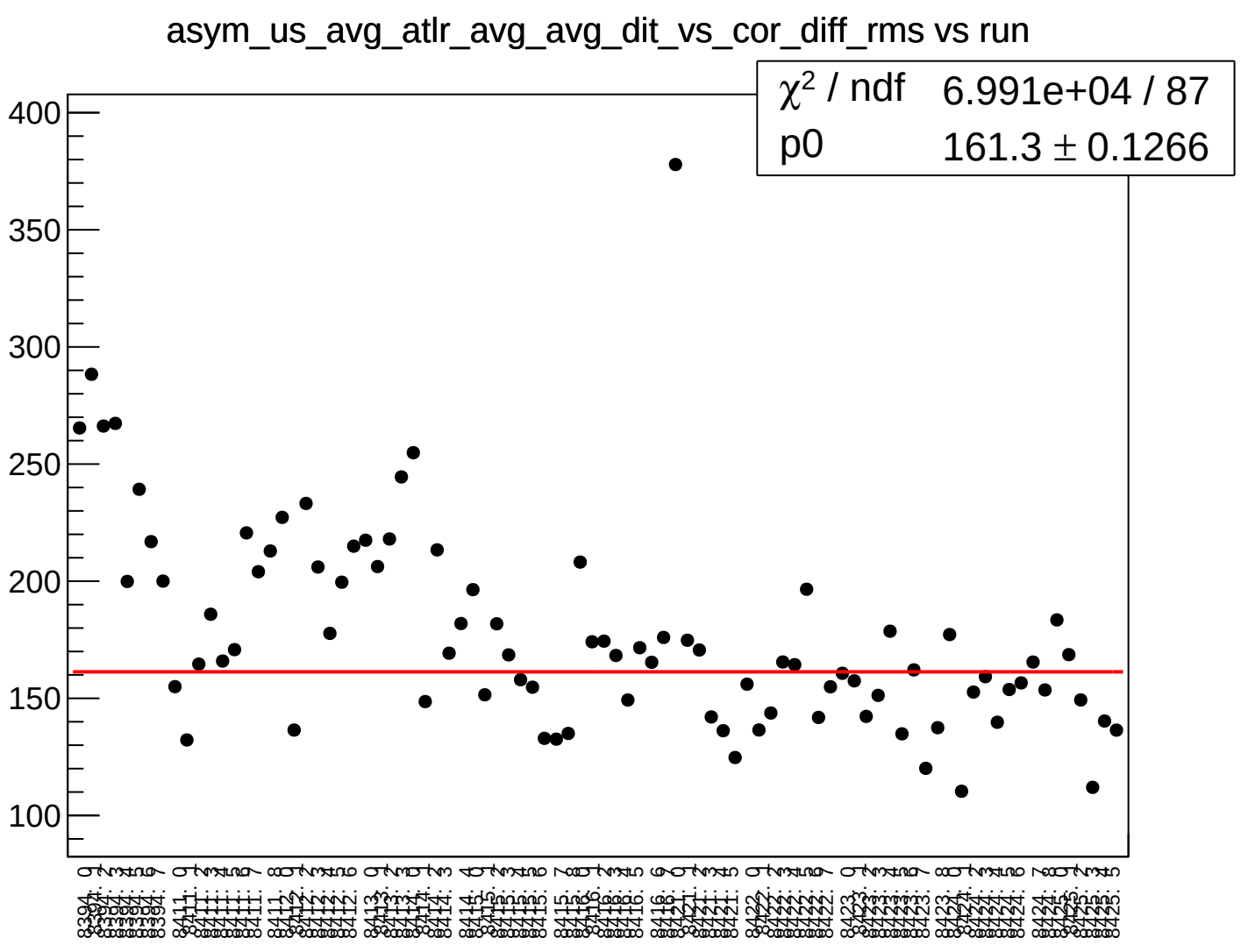

pull1D
Entries 88
Mean 0.02029
Std Dev 0.8735
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

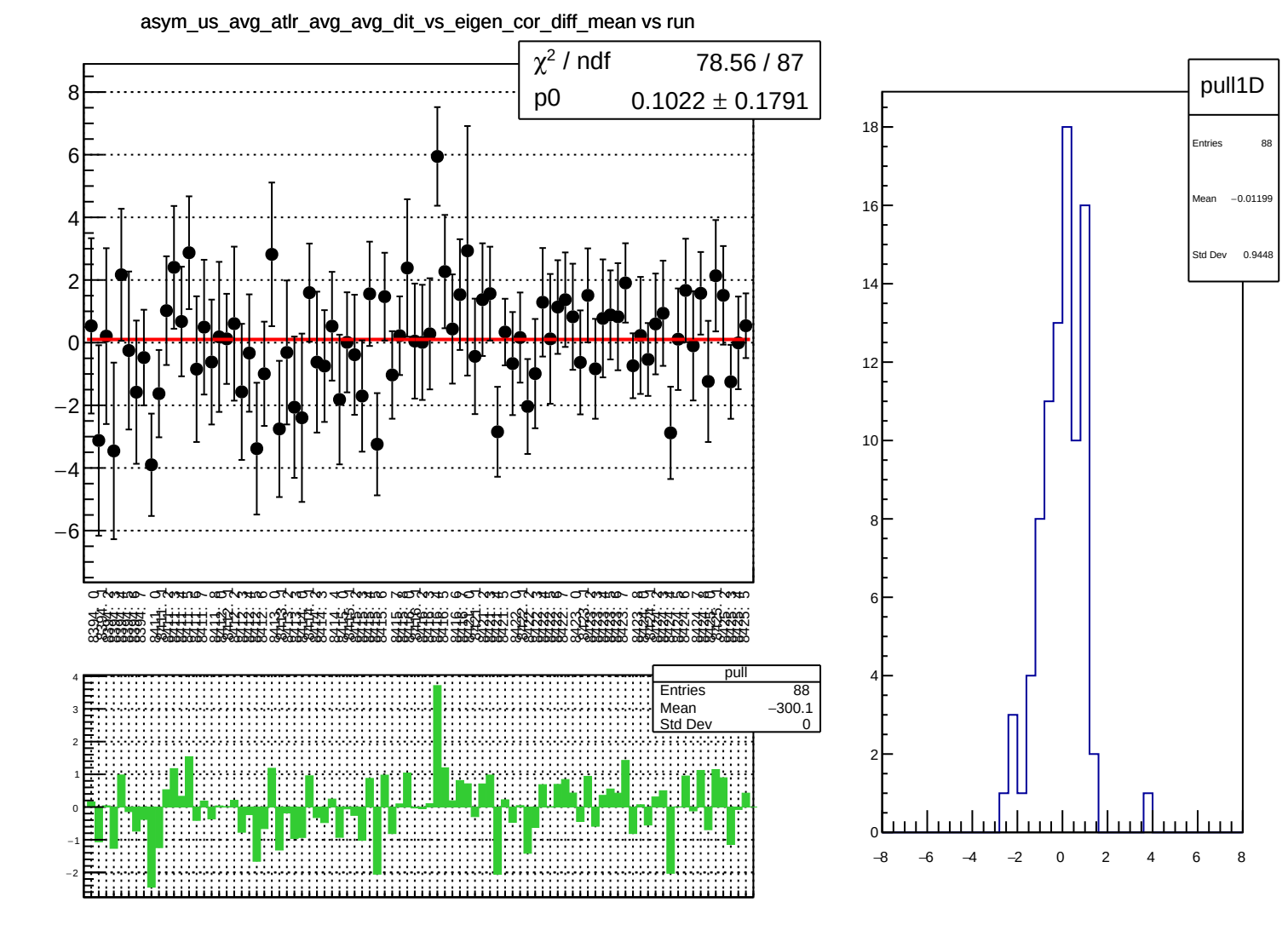

asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 2.226e+04 / 87
p0 8774 ± 6.788
11000
10000
9000
8000
7000

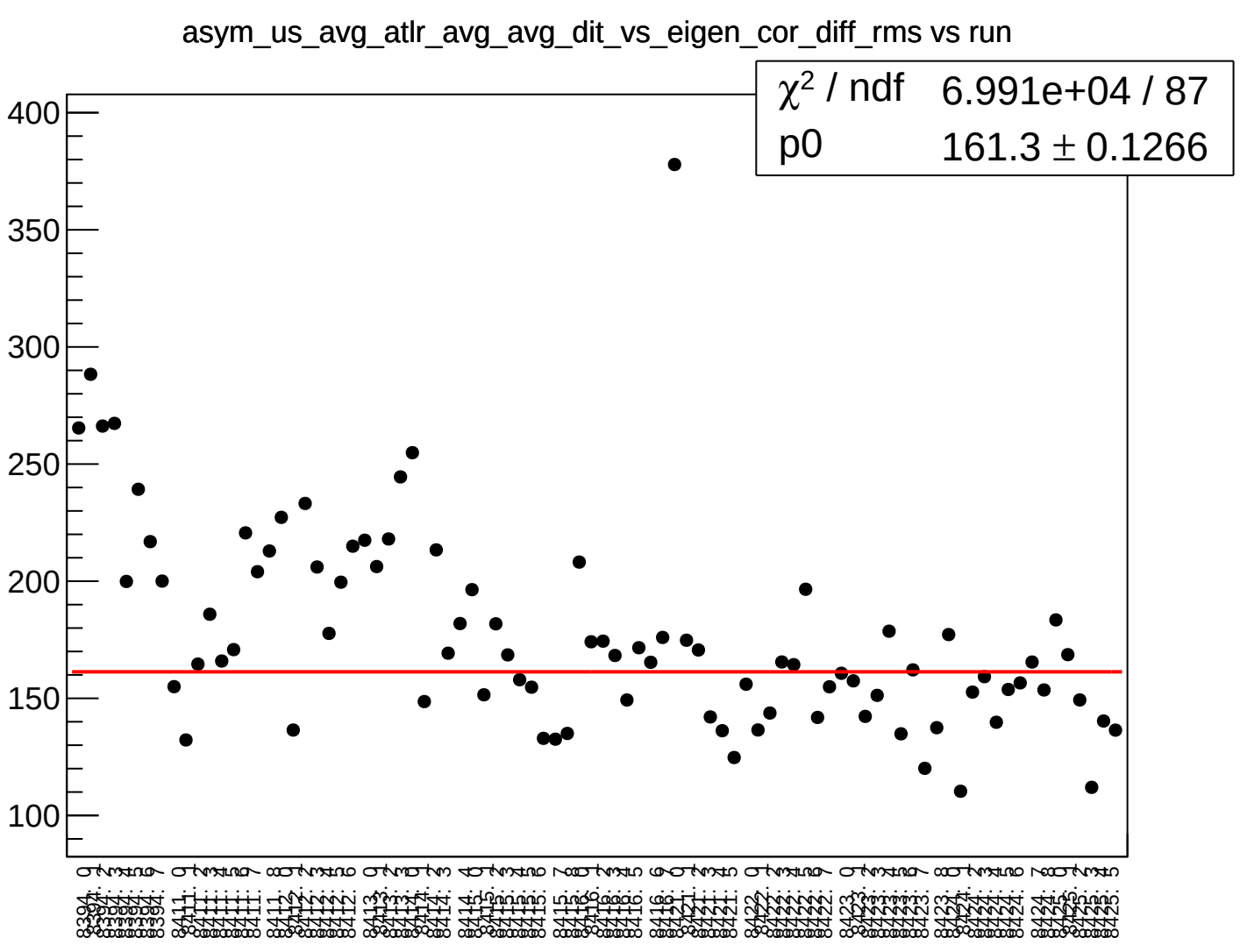

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.41 / 87
p0 1.226e−12 ± 1.162e−12
0.04
0.03
0.02
0.01
0
−0.01
pull
Entries 88
Mean −312.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01355
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

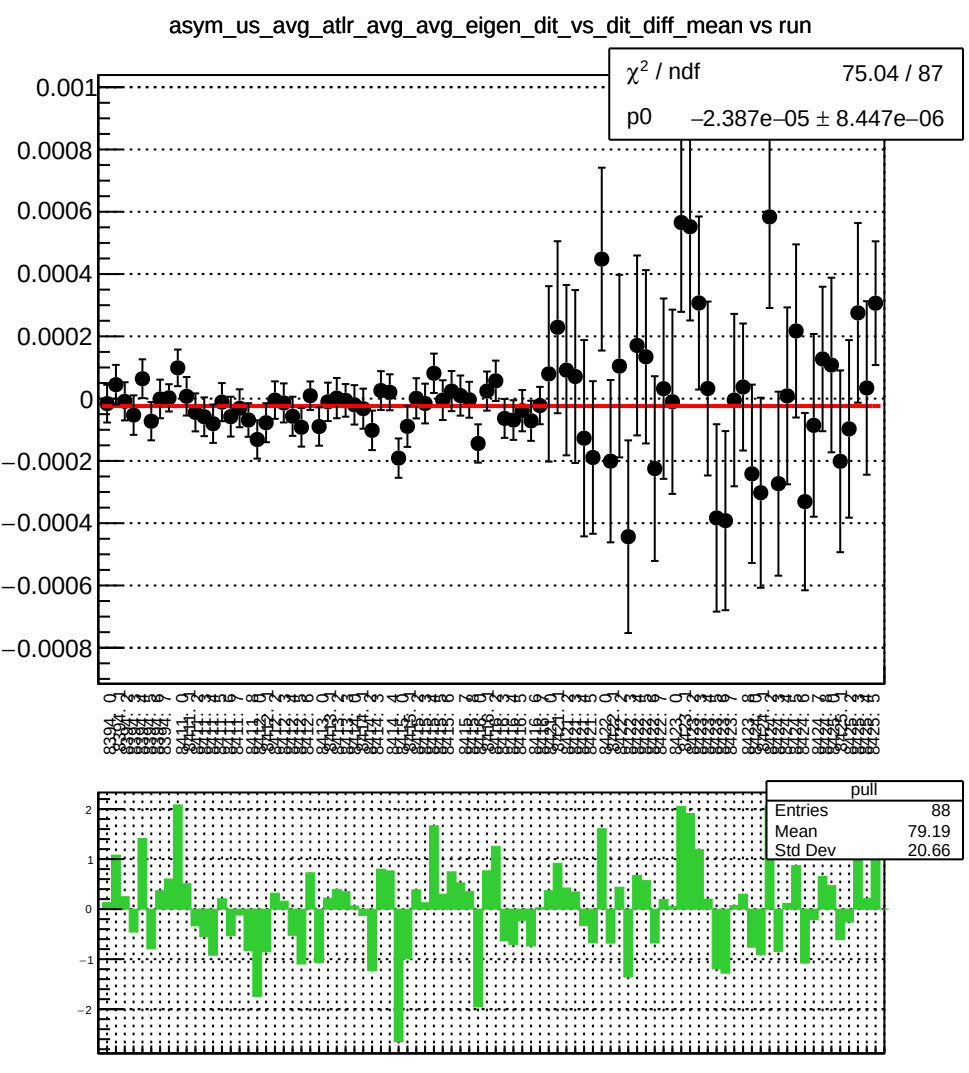

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.024e+06 / 87
p0 6.718e−10 ± 8.214e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

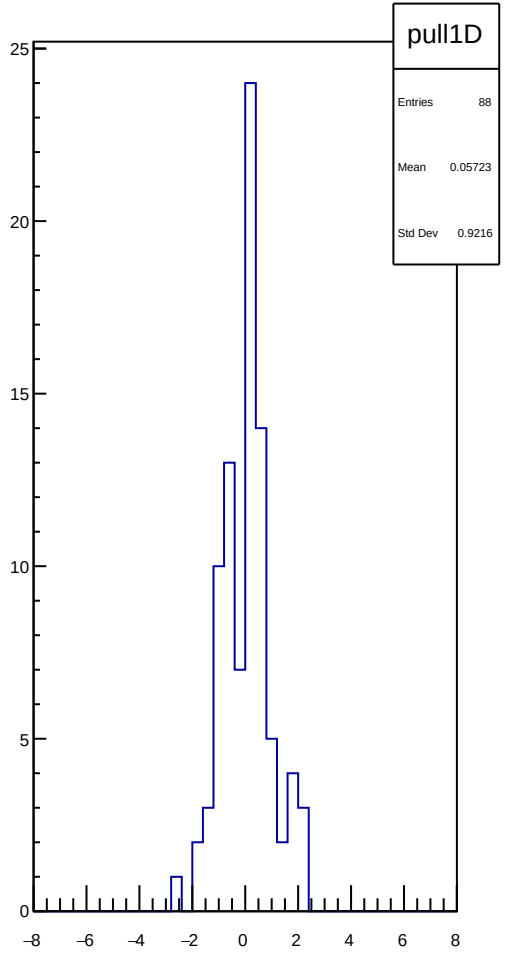

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.56 / 87
p0 0.1022 ± 0.1791
pull
Entries 88
Mean −300.1
Std Dev 0
pull1D
Entries 88
Mean −0.01199
Std Dev 0.9448

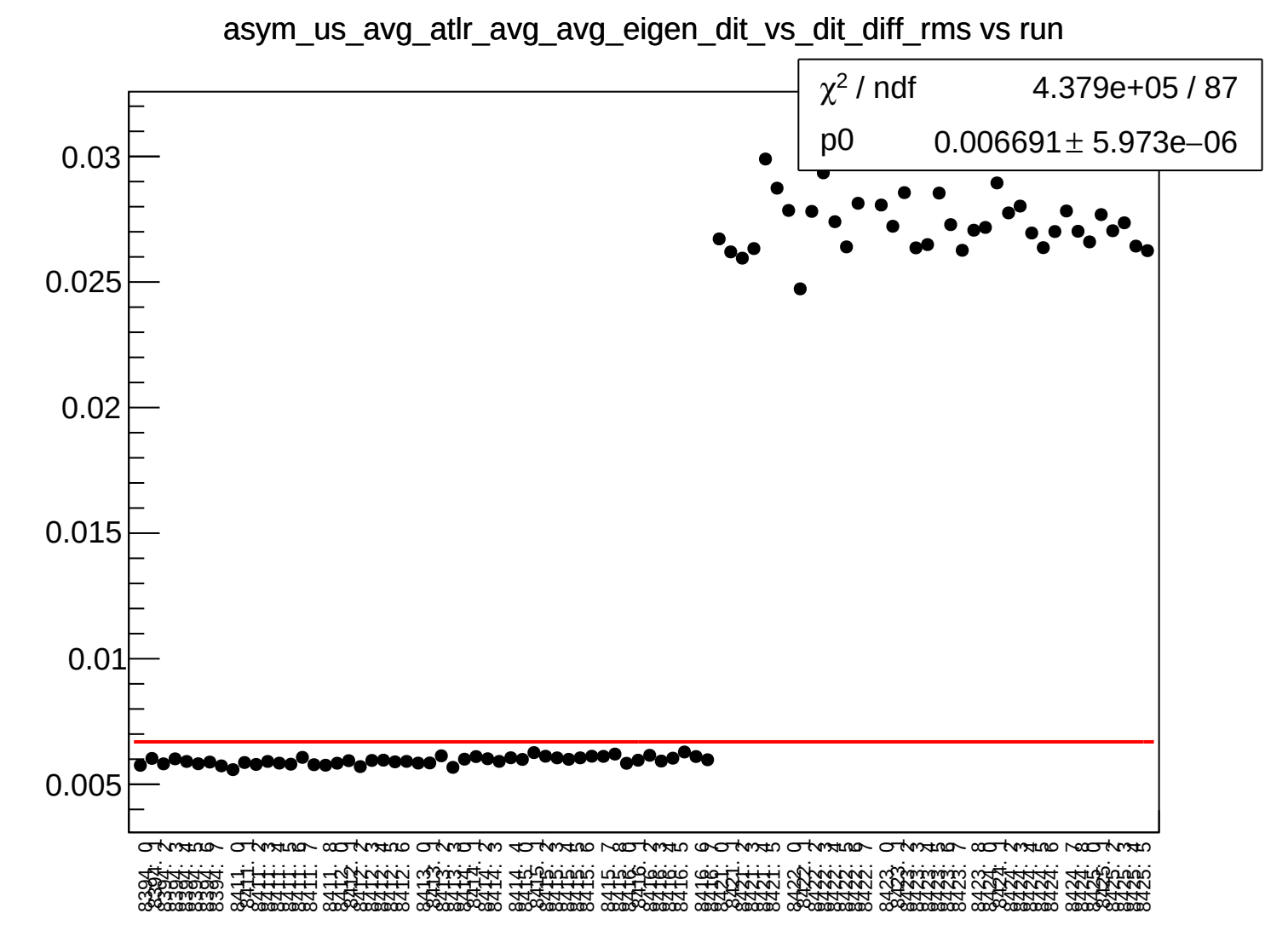

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.991e+04 / 87
p0 161.3 ± 0.1266
400
350
300
250
200
150
100

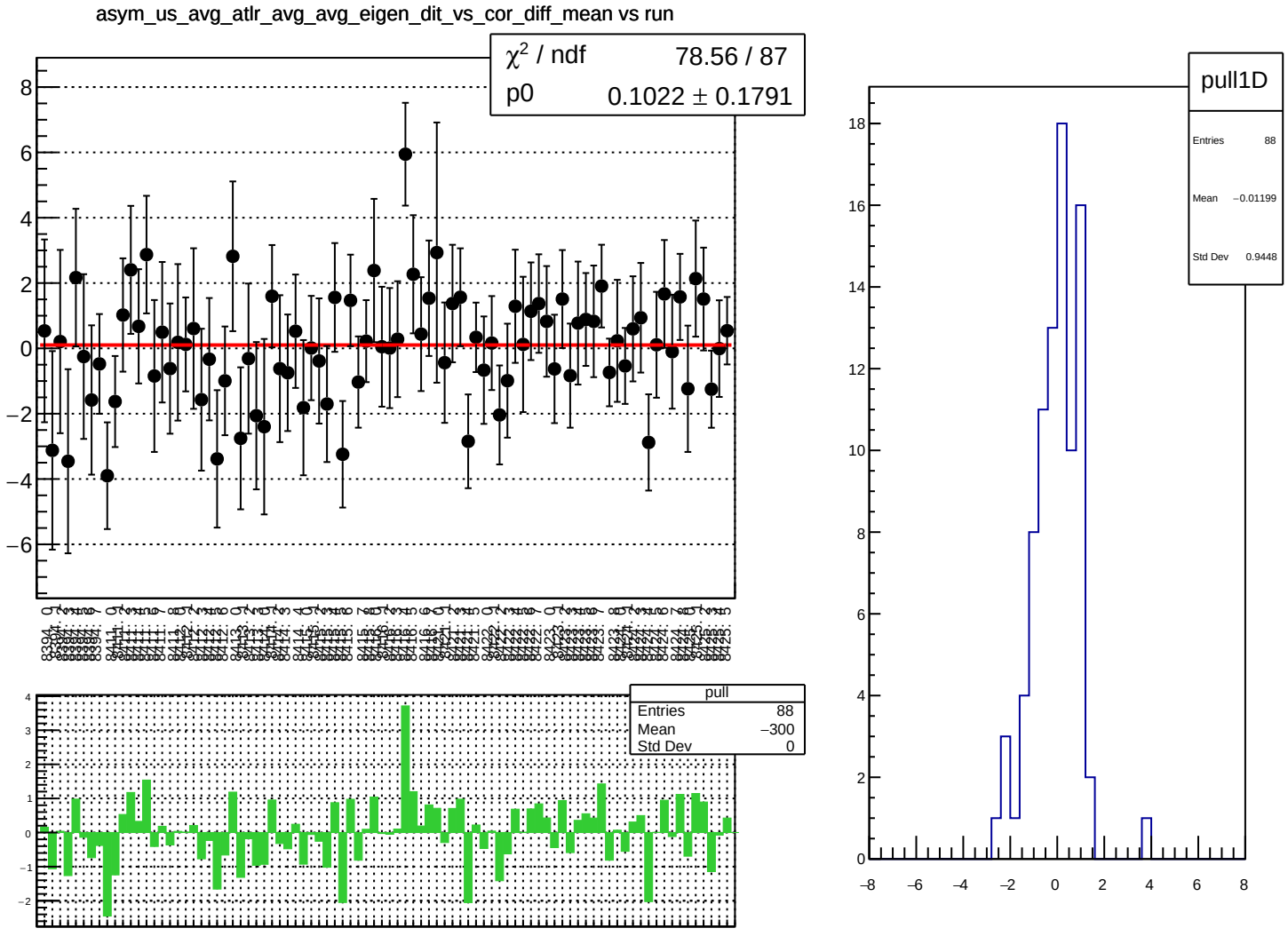

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.56 / 87
p0 0.1022 ± 0.1791
pull
Entries 88
Mean −300.1
Std Dev 0
pull1D
Entries 88
Mean −0.01199
Std Dev 0.9448

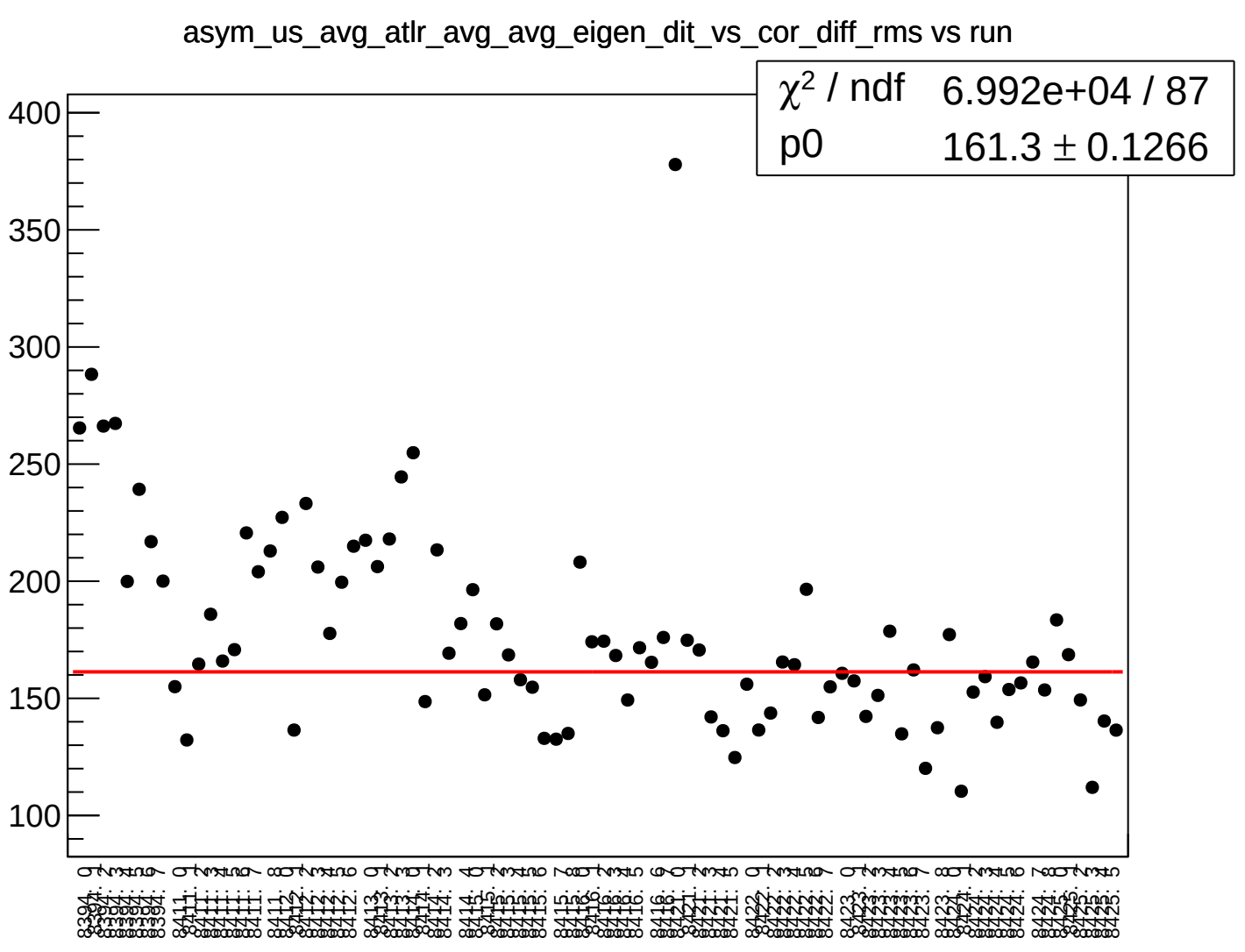

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.991e+04 / 87
p0 161.3 ± 0.1266
400
350
300
250
200
150
100

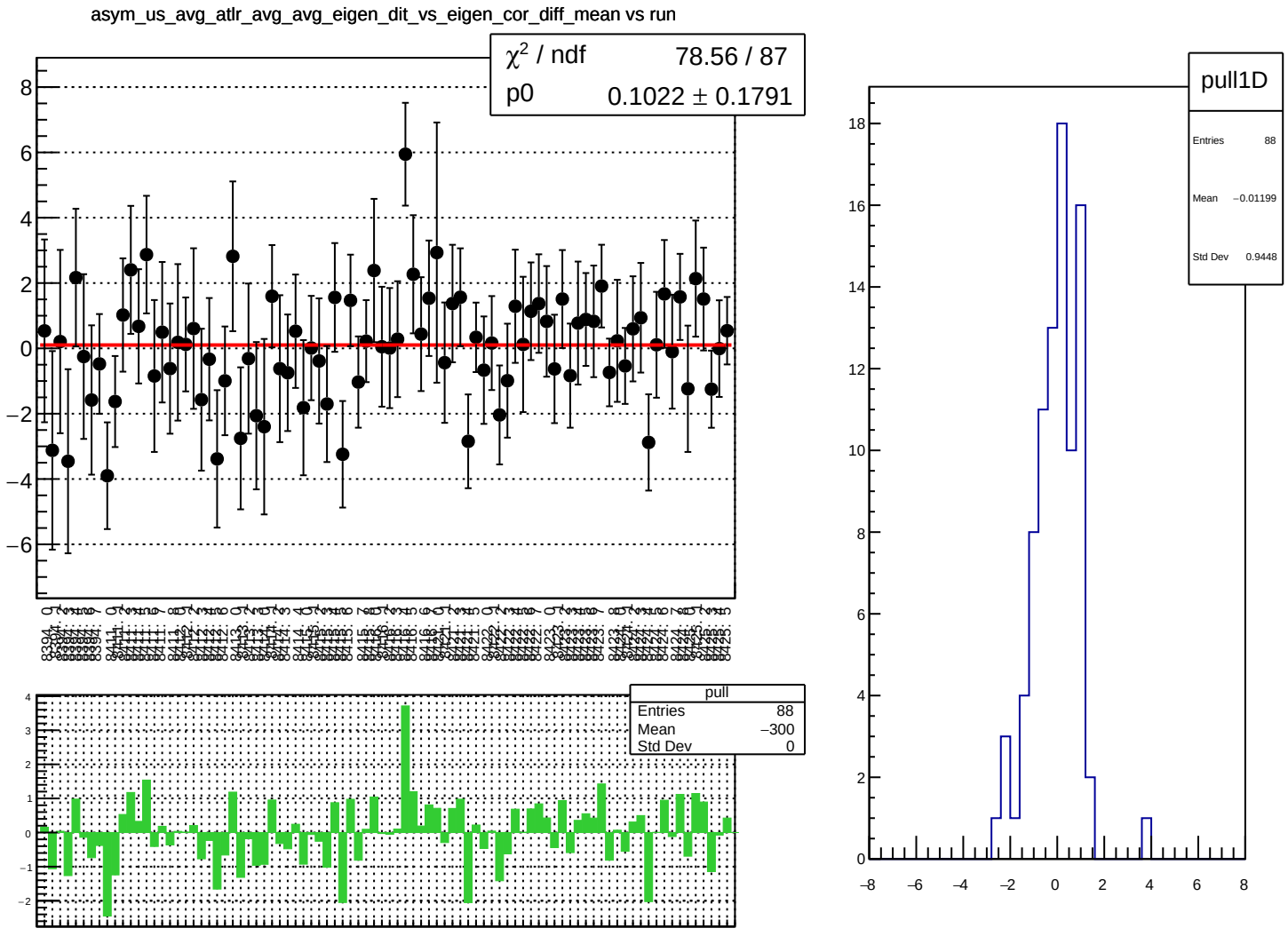

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 75.04 / 87
p0 −2.387e−05 ± 8.447e−06
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 88
Mean 79.19
Std Dev 20.66
2
1
0
−1
−2

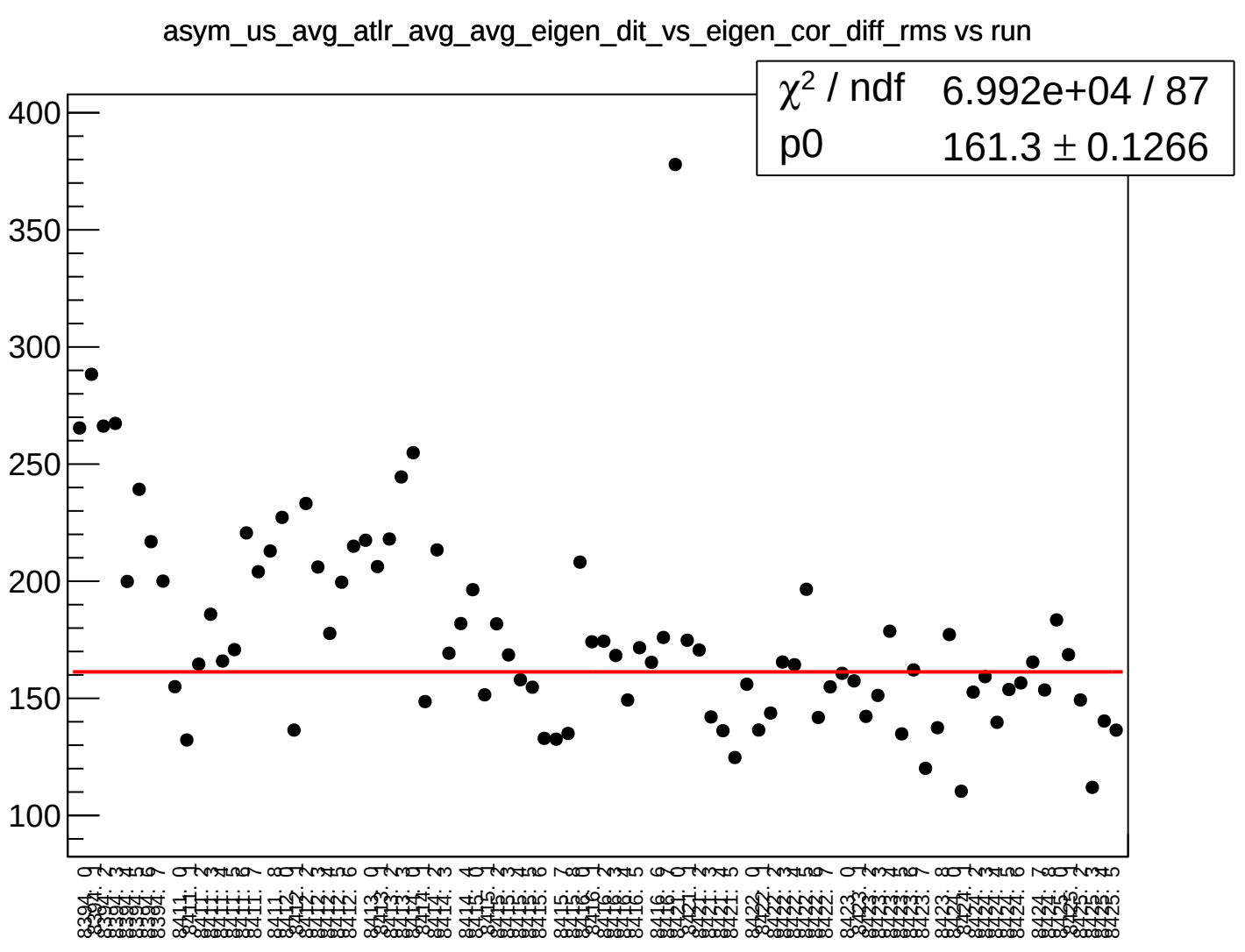

pull1D
Entries 88
Mean 0.05723
Std Dev 0.9216
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

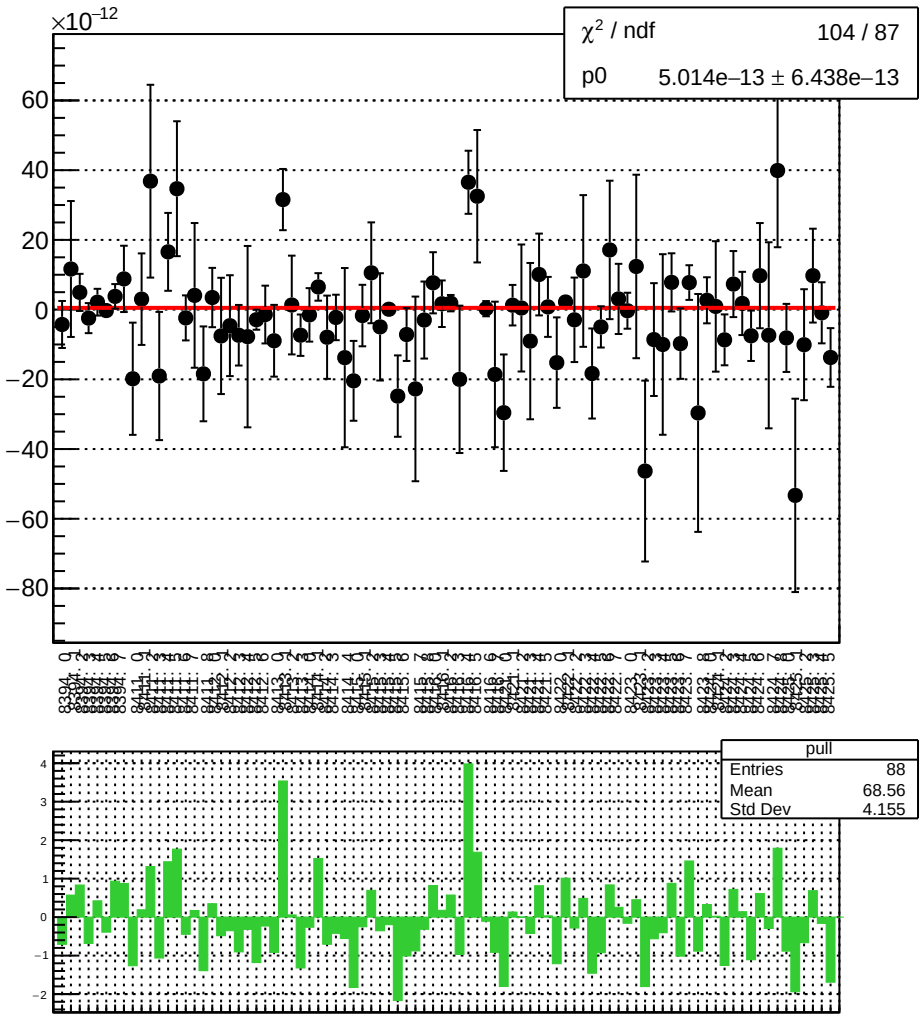

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.379e+05 / 87
p0 0.006691 ± 5.973e−06
0.03
0.025
0.02
0.015
0.01
0.005

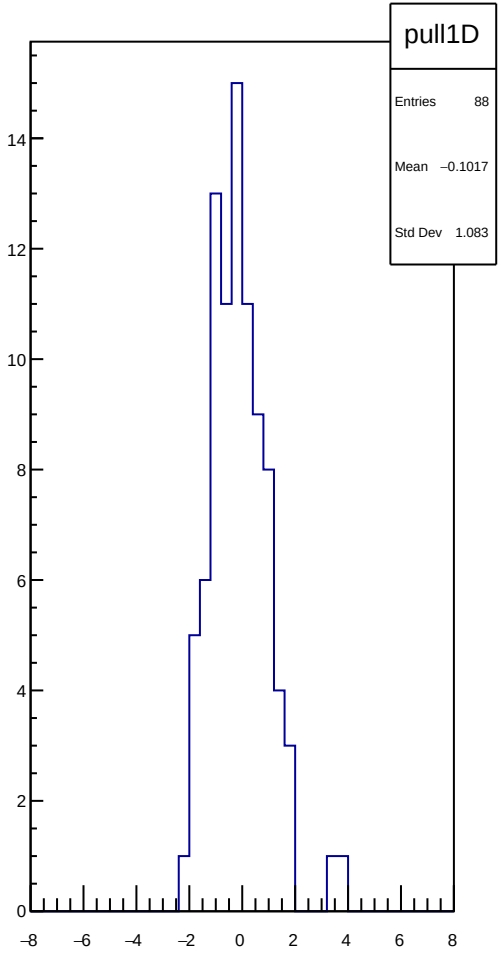

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.56 / 87
p0 0.1022 ± 0.1791
pull
Entries 88
Mean −300
Std Dev 0
pull1D
Entries 88
Mean −0.01199
Std Dev 0.9448

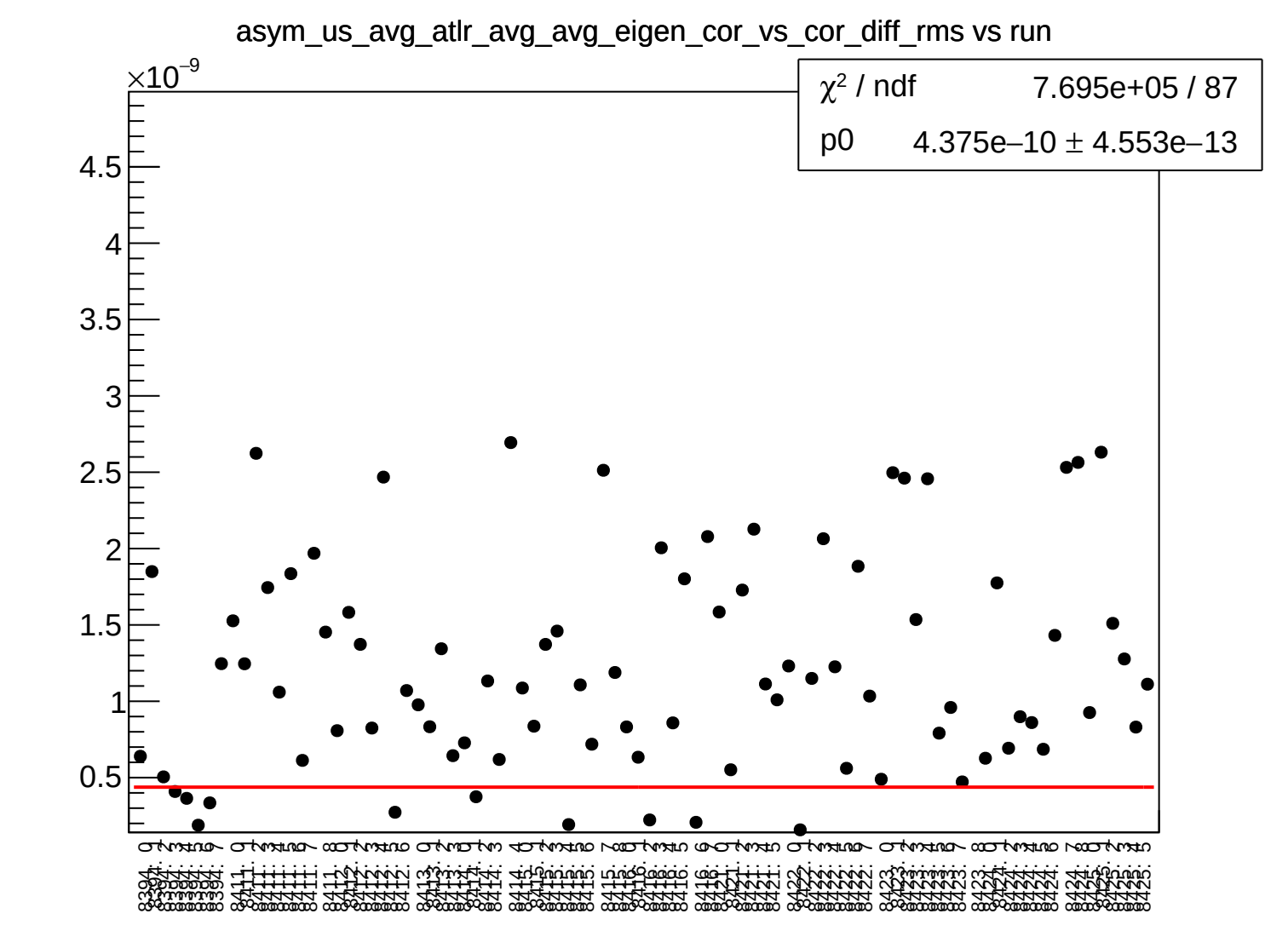

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.992e+04 / 87
p0 161.3 ± 0.1266
400
350
300
250
200
150
100

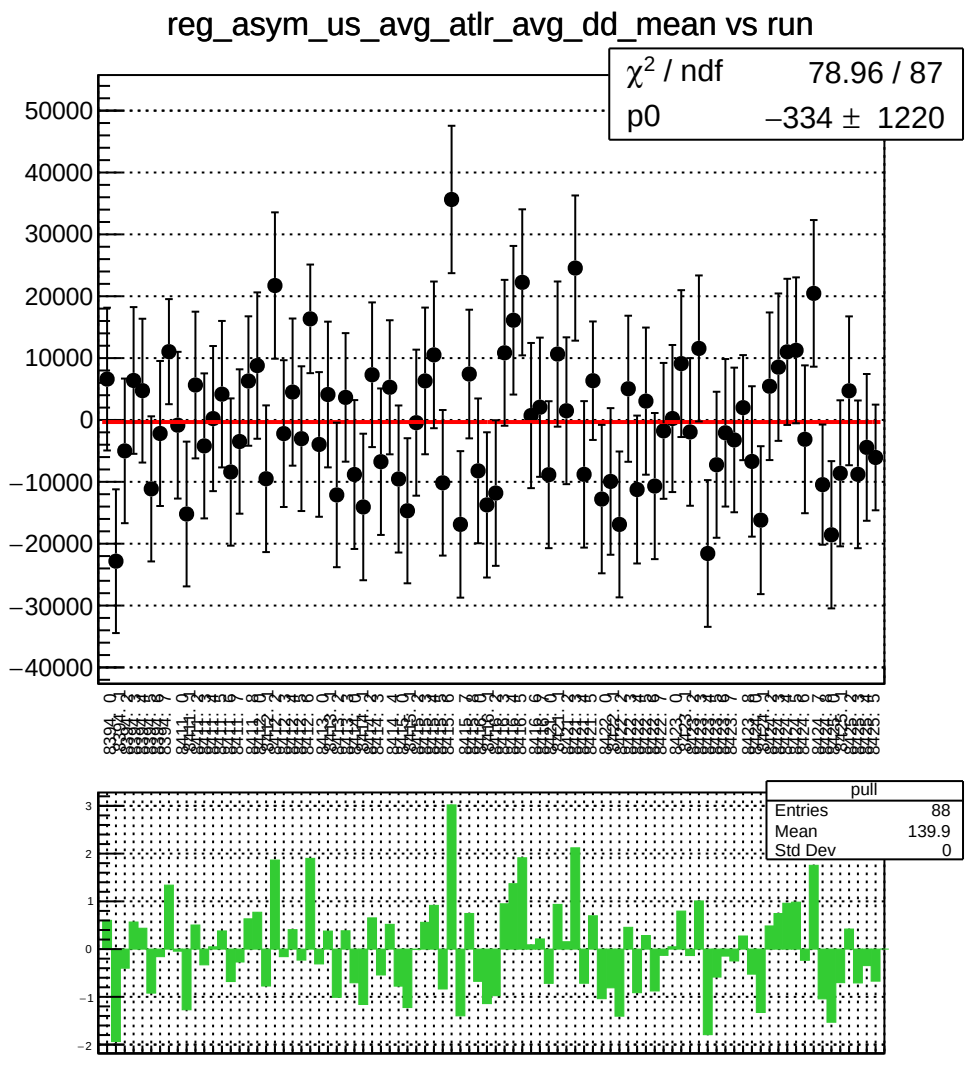

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.56 / 87
p0 0.1022 ± 0.1791
pull
Entries 88
Mean −300
Std Dev 0
pull1D
Entries 88
Mean −0.01199
Std Dev 0.9448

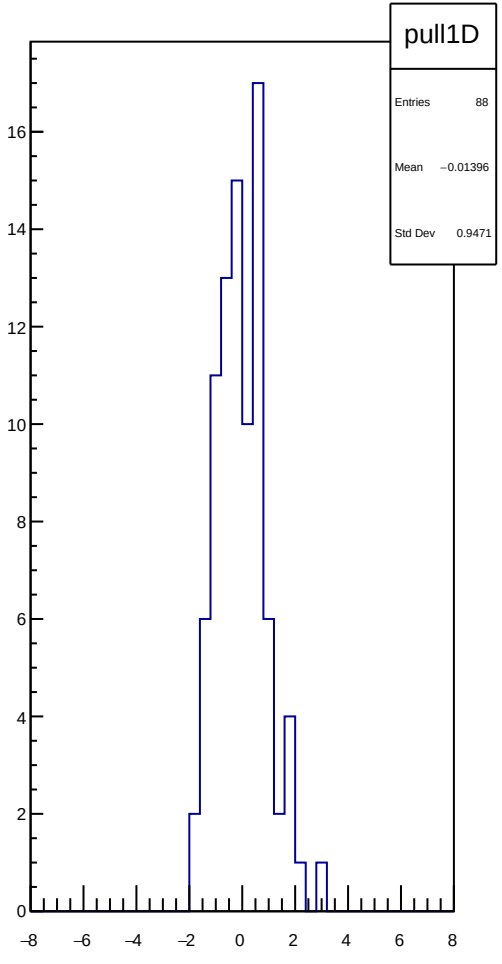

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.992e+04 / 87
p0 161.3 ± 0.1266
400
350
300
250
200
150
100

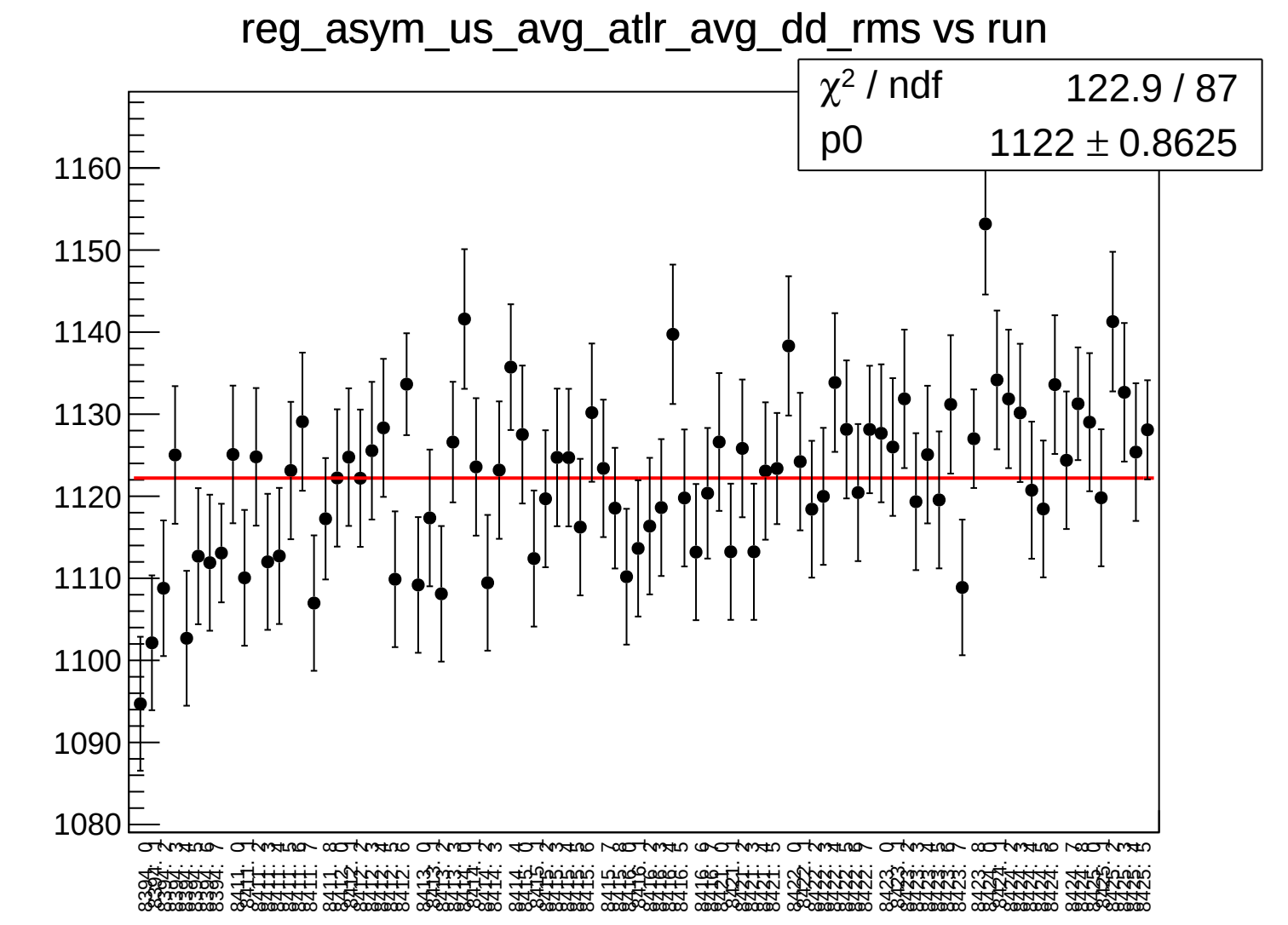

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104 / 87
p0 5.014e−13 ± 6.438e−13
pull
Entries 88
Mean 68.56
Std Dev 4.155

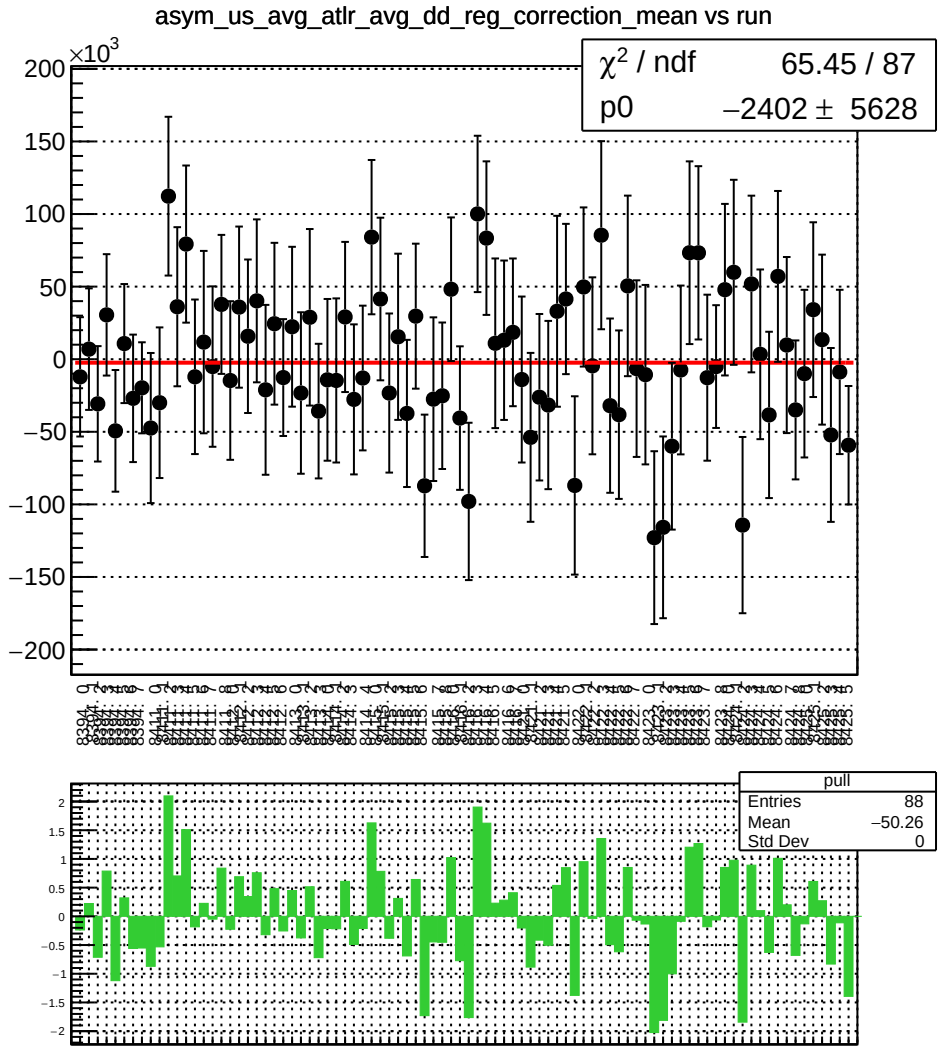

pull1D
Entries 88
Mean −0.1017
Std Dev 1.083

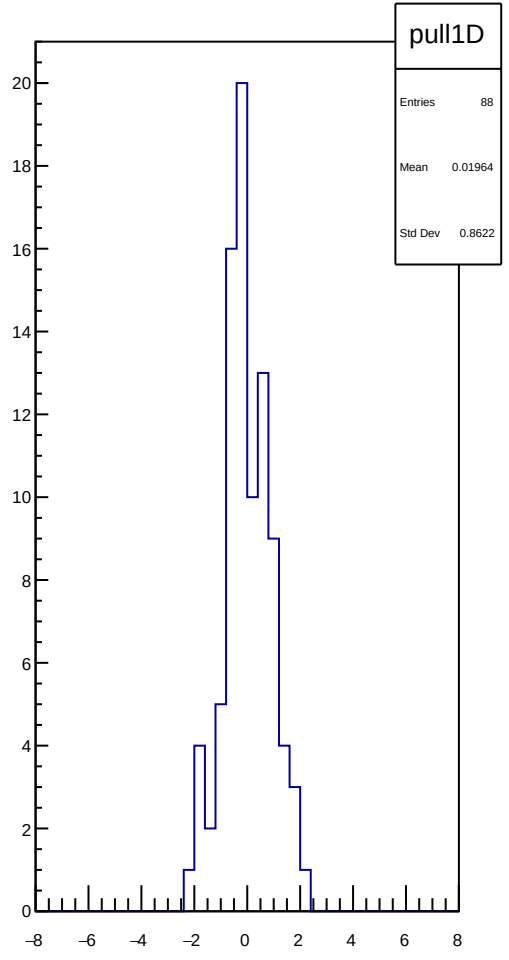

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.695e+05 / 87
p0 4.375e−10 ± 4.553e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

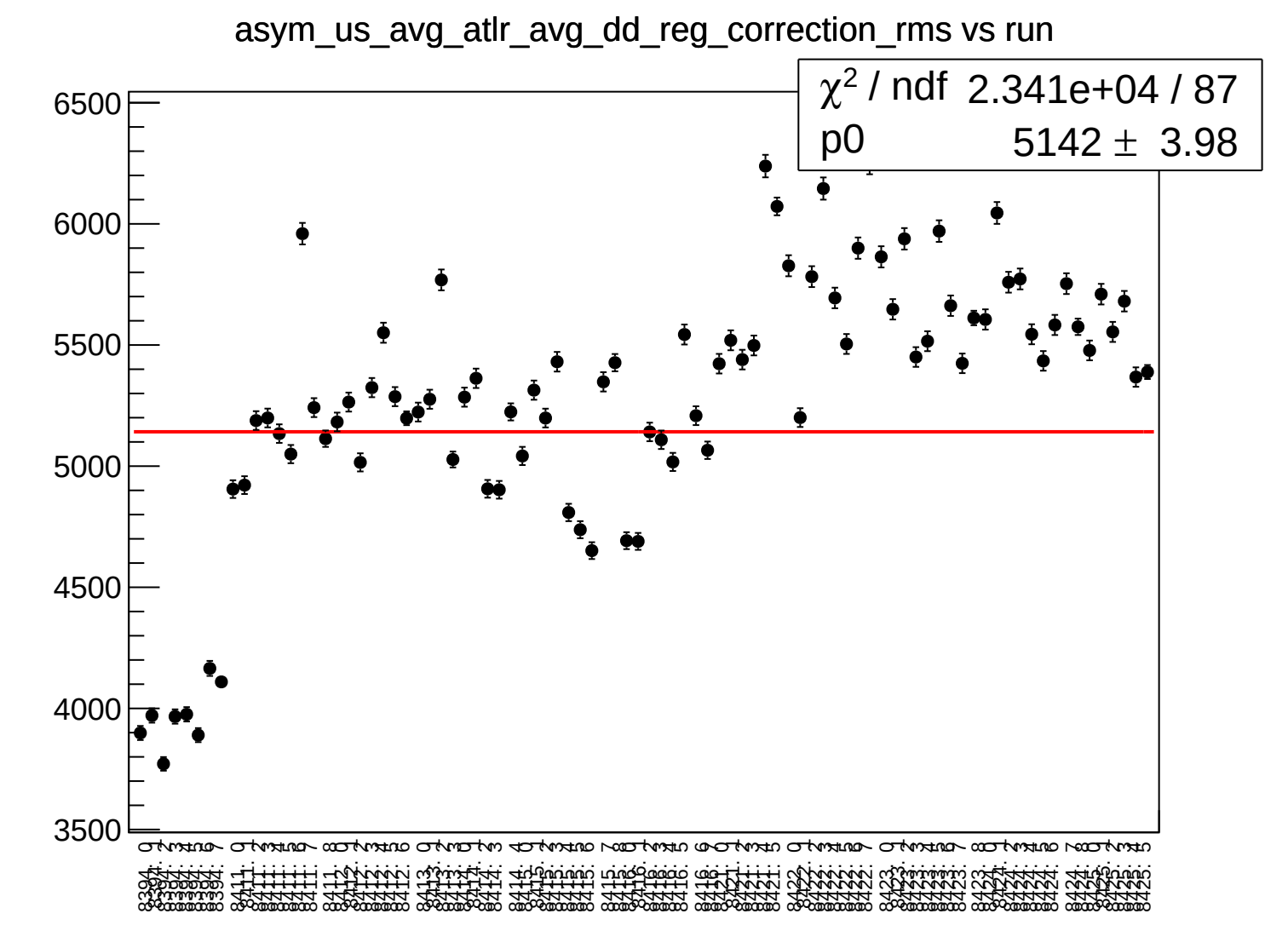

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 78.96 / 87
p0 −334 ± 1220
pull
Entries 88
Mean 139.9
Std Dev 0

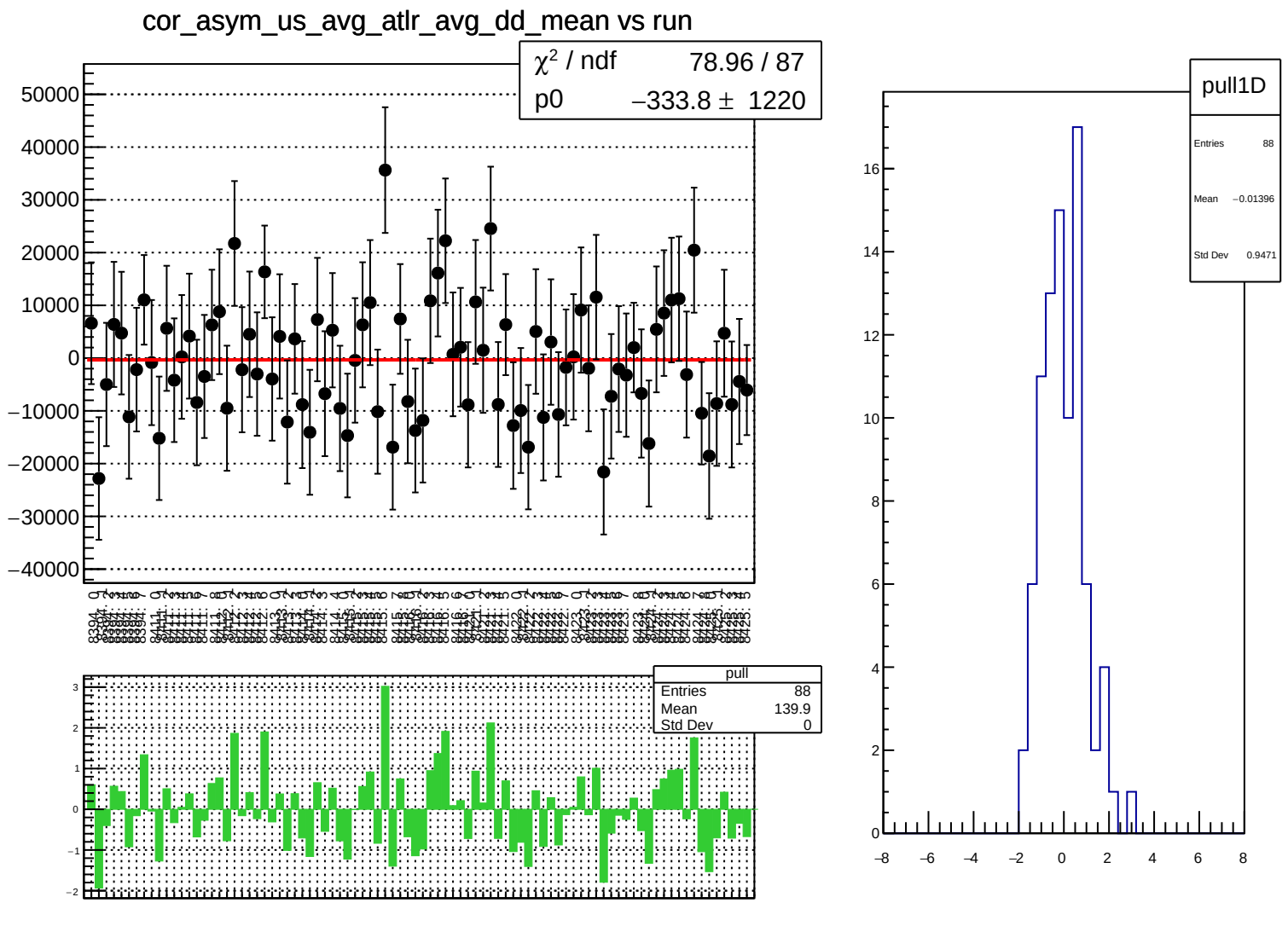

pull1D
Entries 88
Mean −0.01396
Std Dev 0.9471

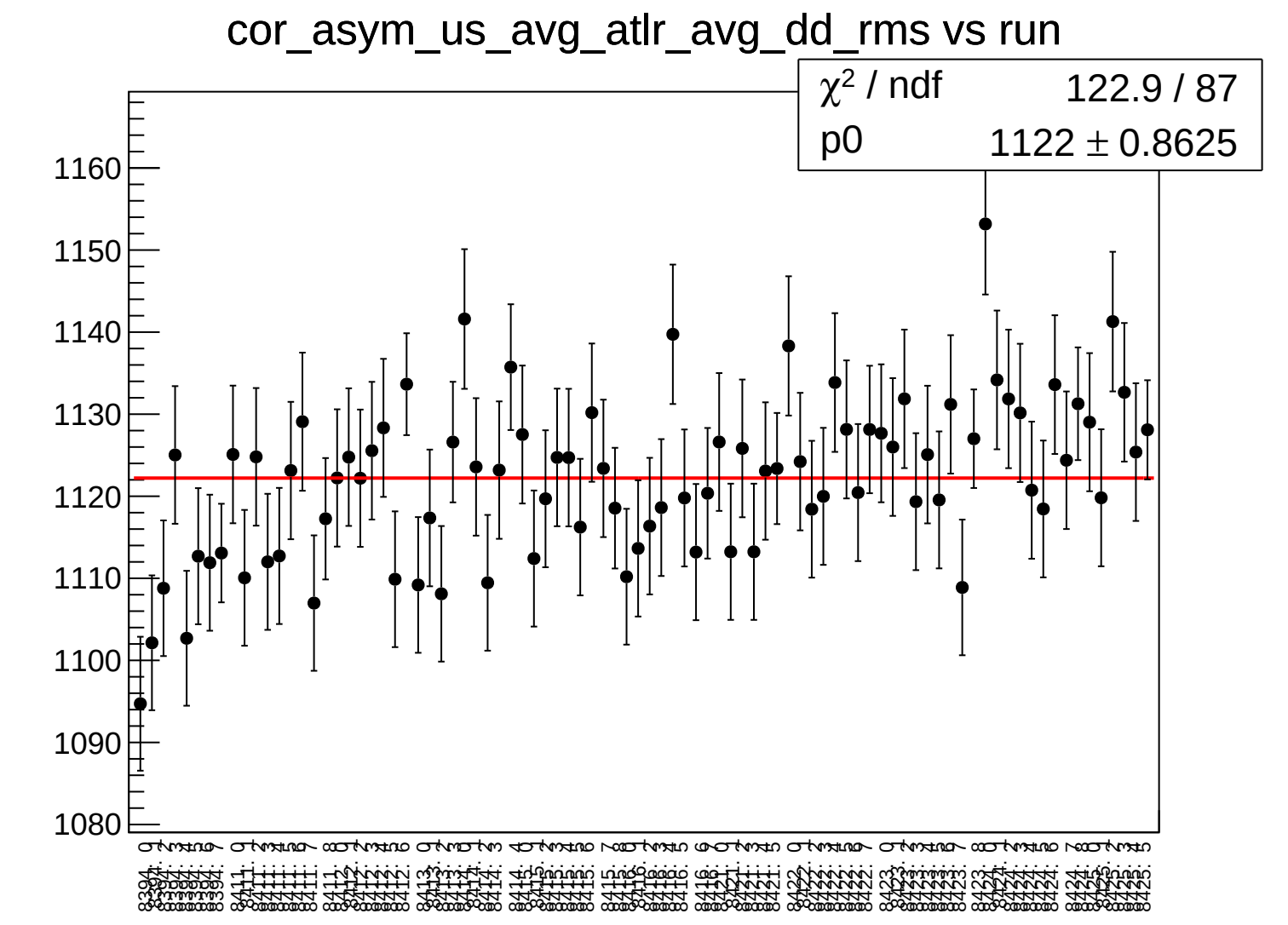

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ^2 / ndf 122.9 / 87
p0 1122 ± 0.8625
1160
1150
1140
1130
1120
1110
1100
1090
1080

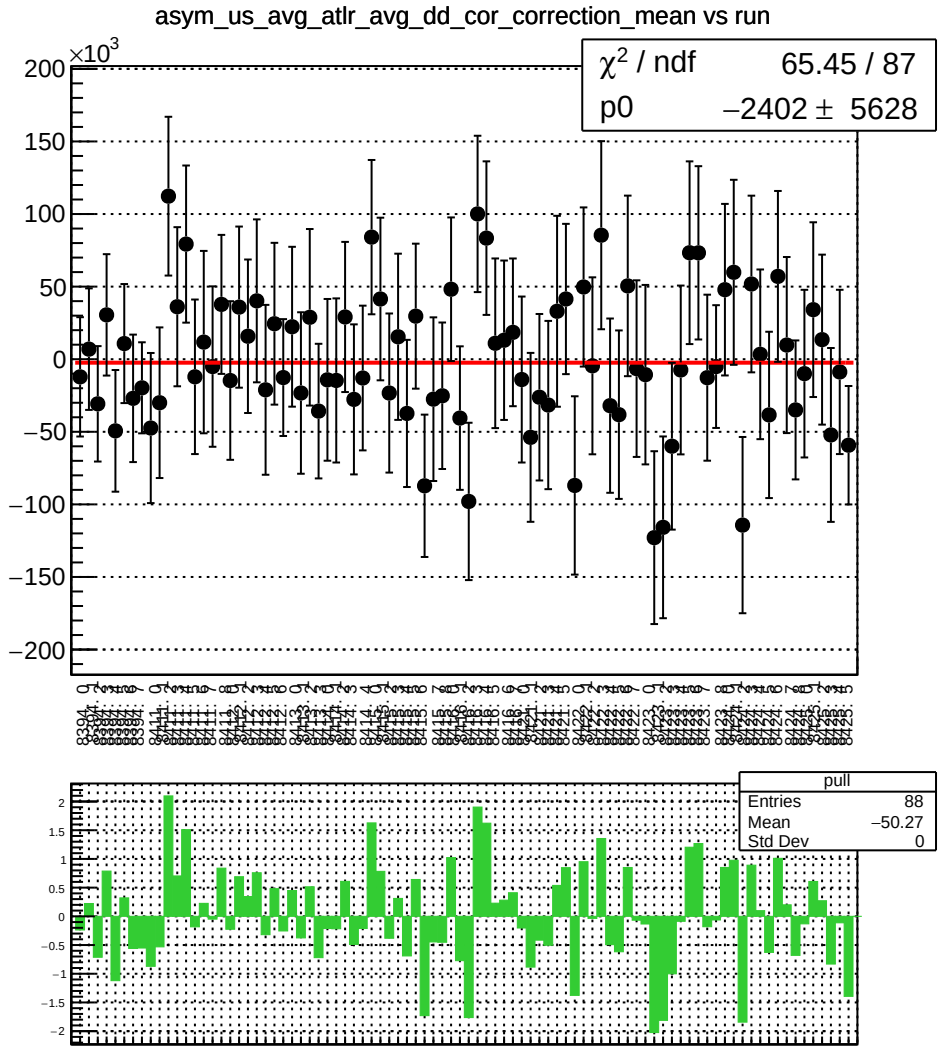

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 65.45 / 87
p0 −2402 ± 5628
pull
Entries 88
Mean −50.26
Std Dev 0

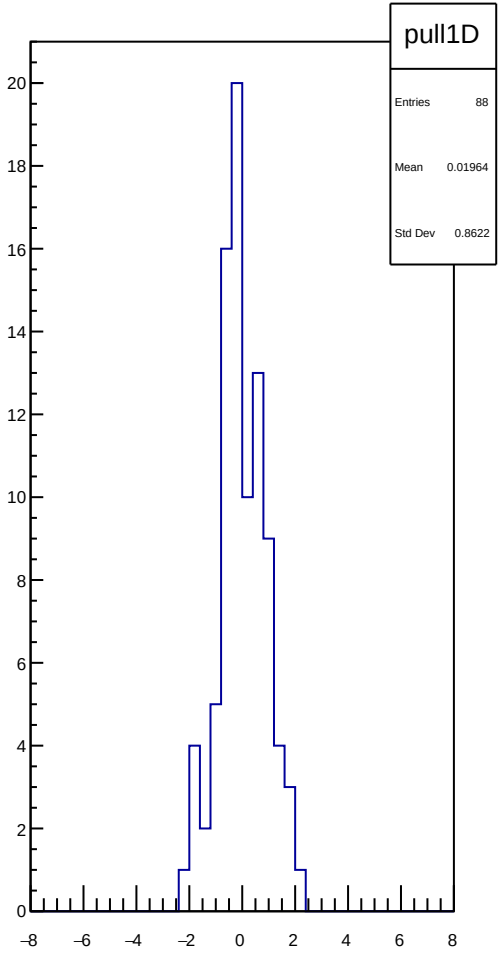

pull1D
Entries 88
Mean 0.01964
Std Dev 0.8622

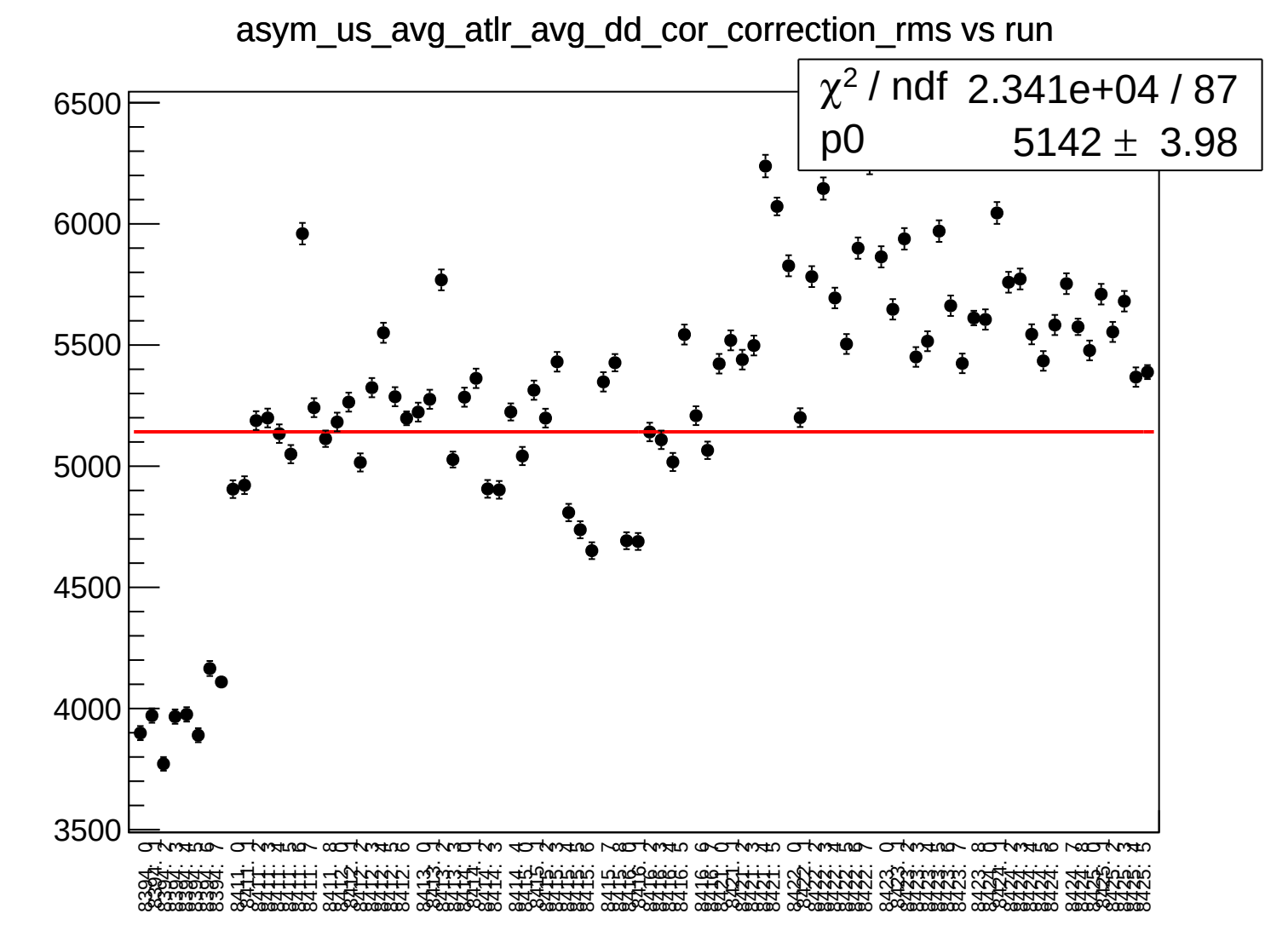

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 2.341e+04 / 87
p0 5142 ± 3.98
6500
6000
5500
5000
4500
4000
3500

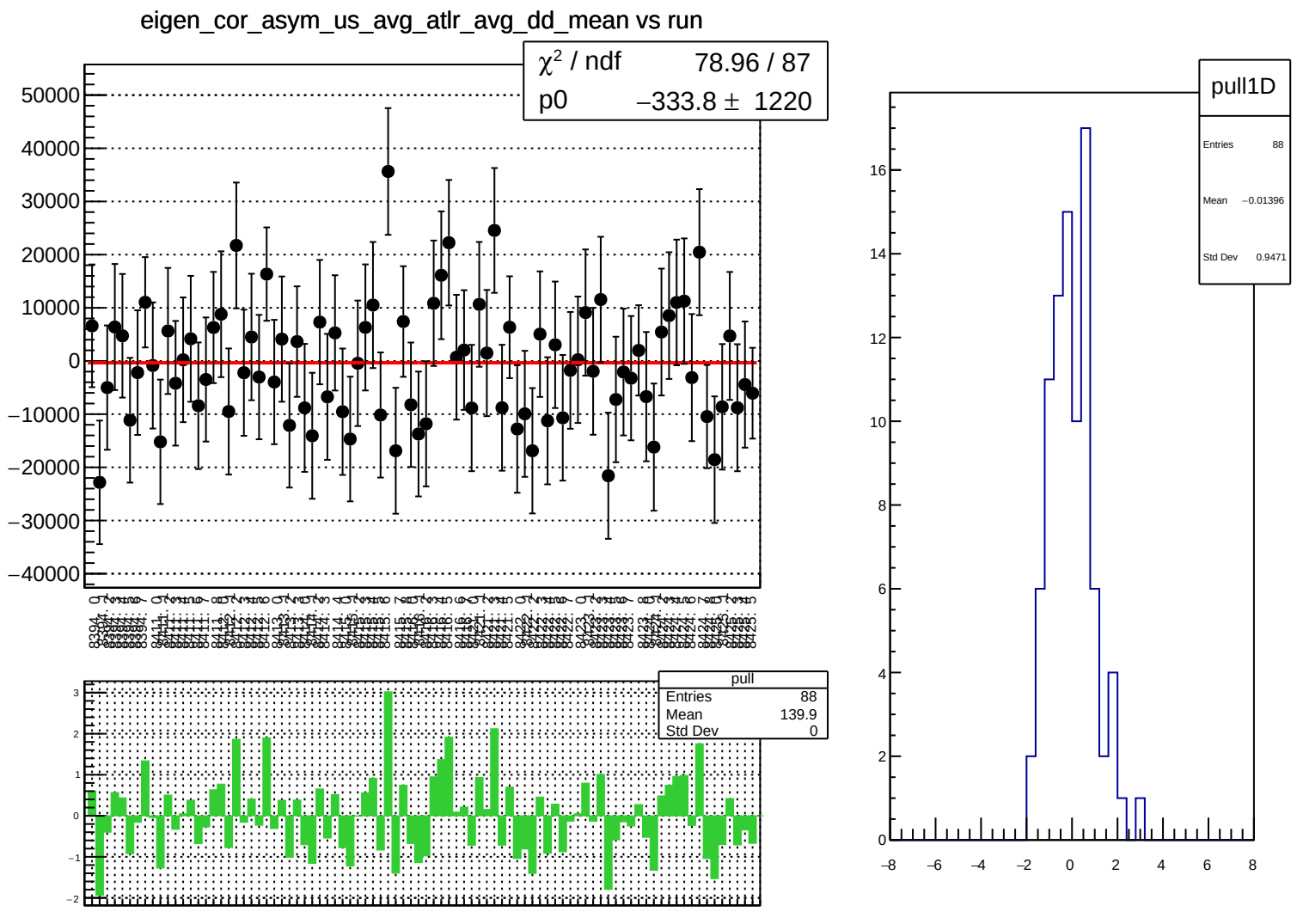

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 78.96 / 87
p0 −333.8 ± 1220
pull
Entries 88
Mean 139.9
Std Dev 0
pull1D
Entries 88
Mean −0.01396
Std Dev 0.9471

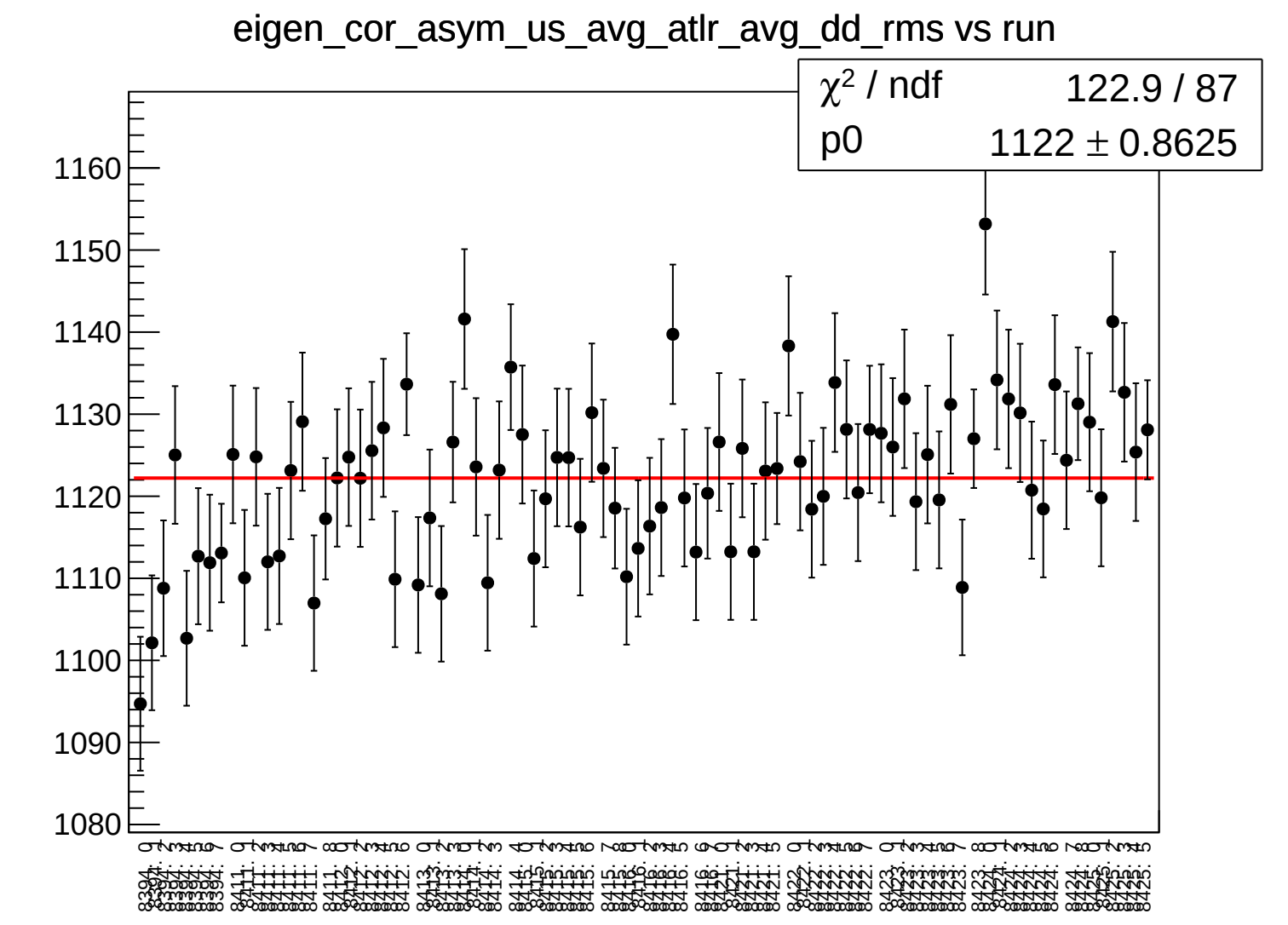

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 122.9 / 87
p0 1122 ± 0.8625
1160
1150
1140
1130
1120
1110
1100
1090
1080

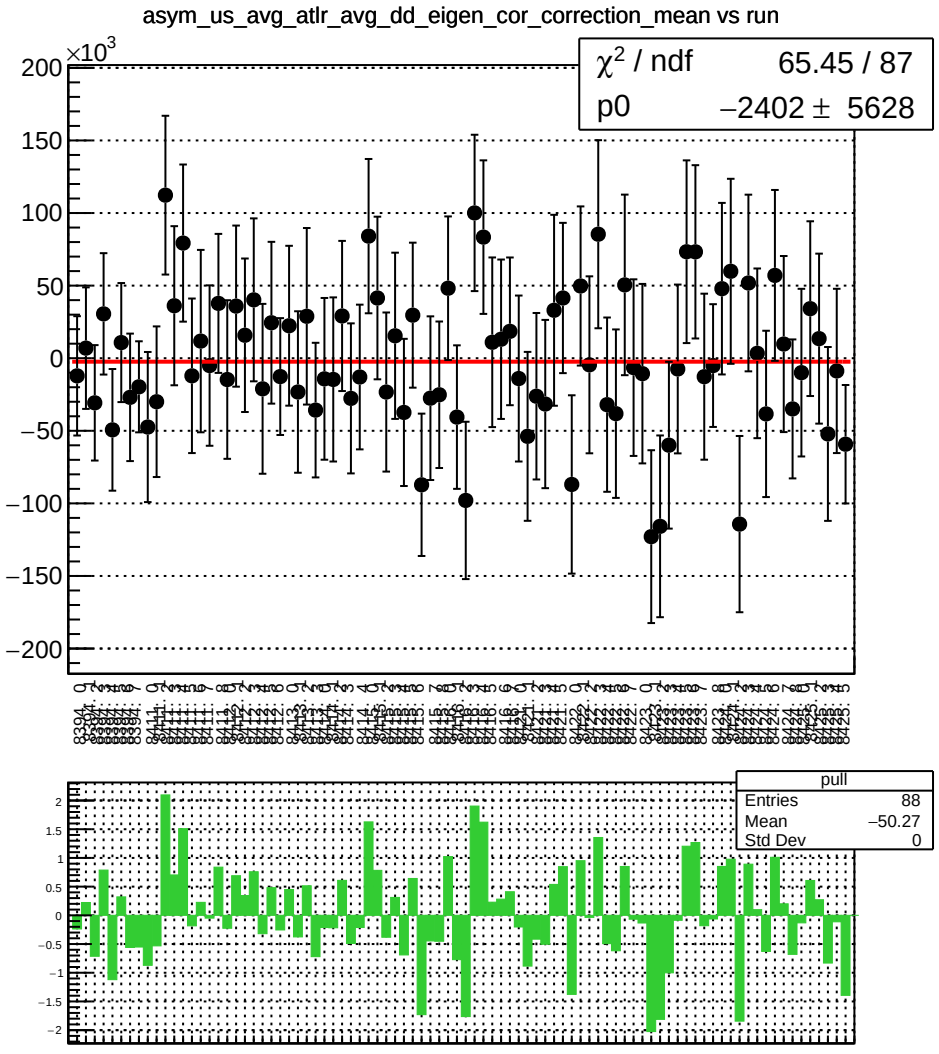

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 65.45 / 87
p0 −2402 ± 5628
pull
Entries 88
Mean −50.27
Std Dev 0

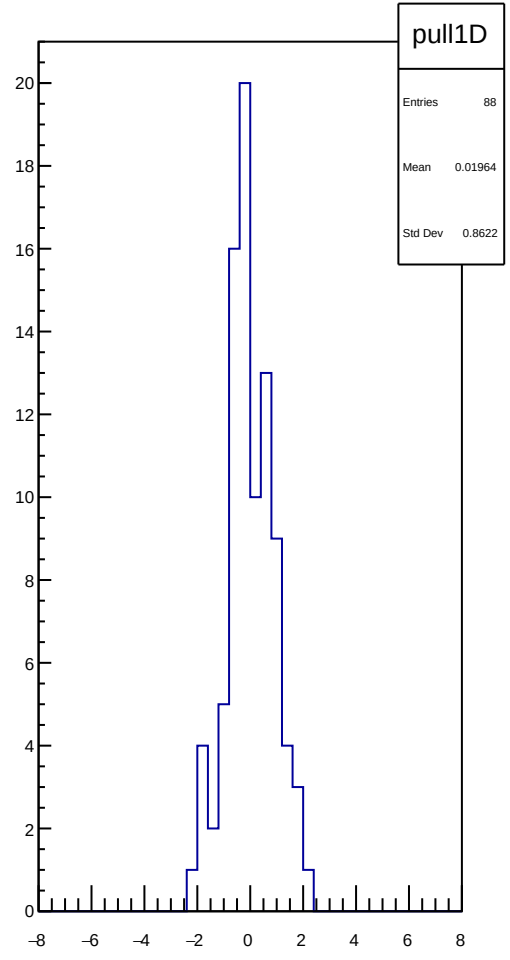

pull1D
Entries 88
Mean 0.01964
Std Dev 0.8622

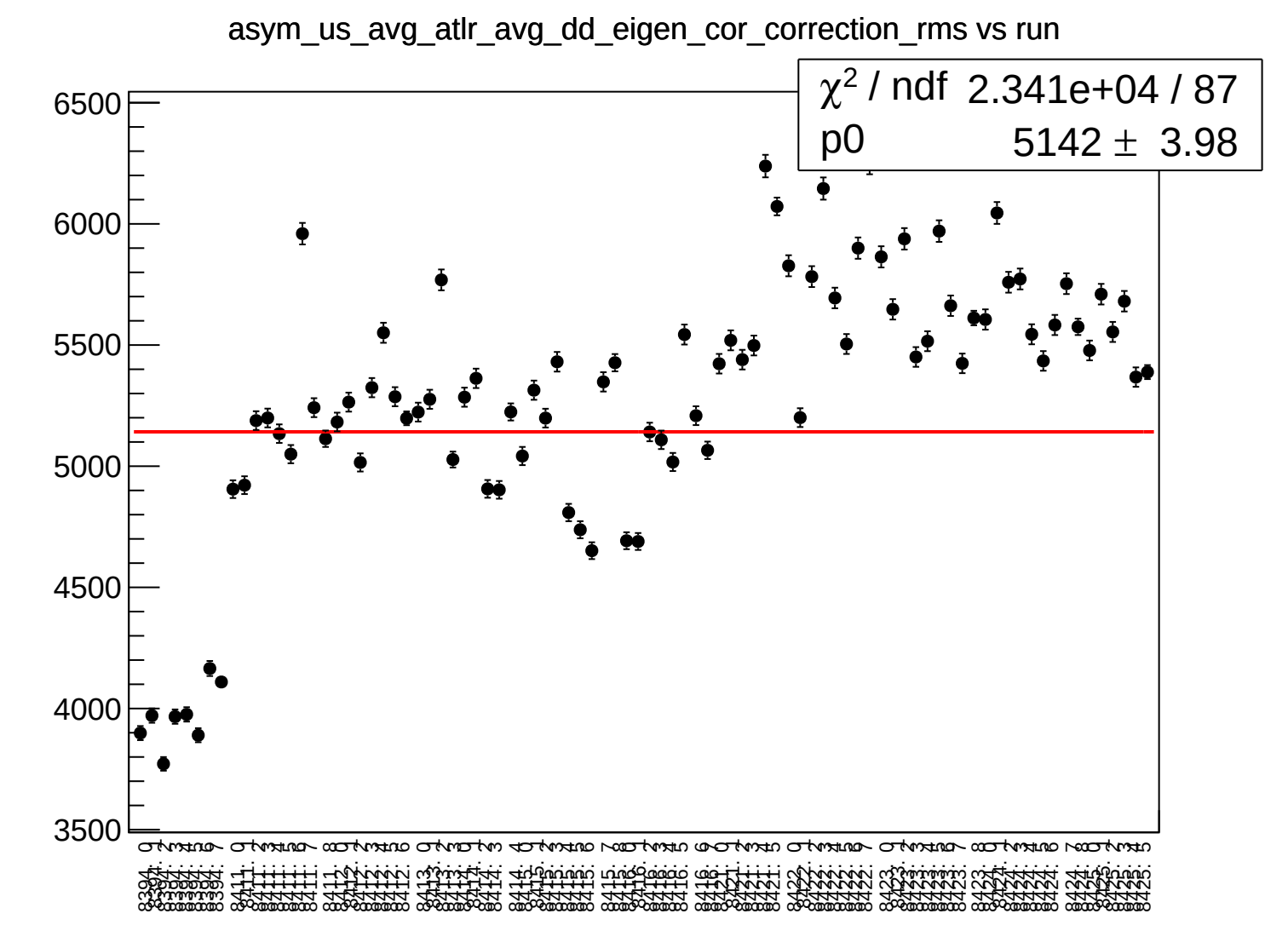

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 2.341e+04 / 87
p0 5142 ± 3.98
6500
6000
5500
5000
4500
4000
3500

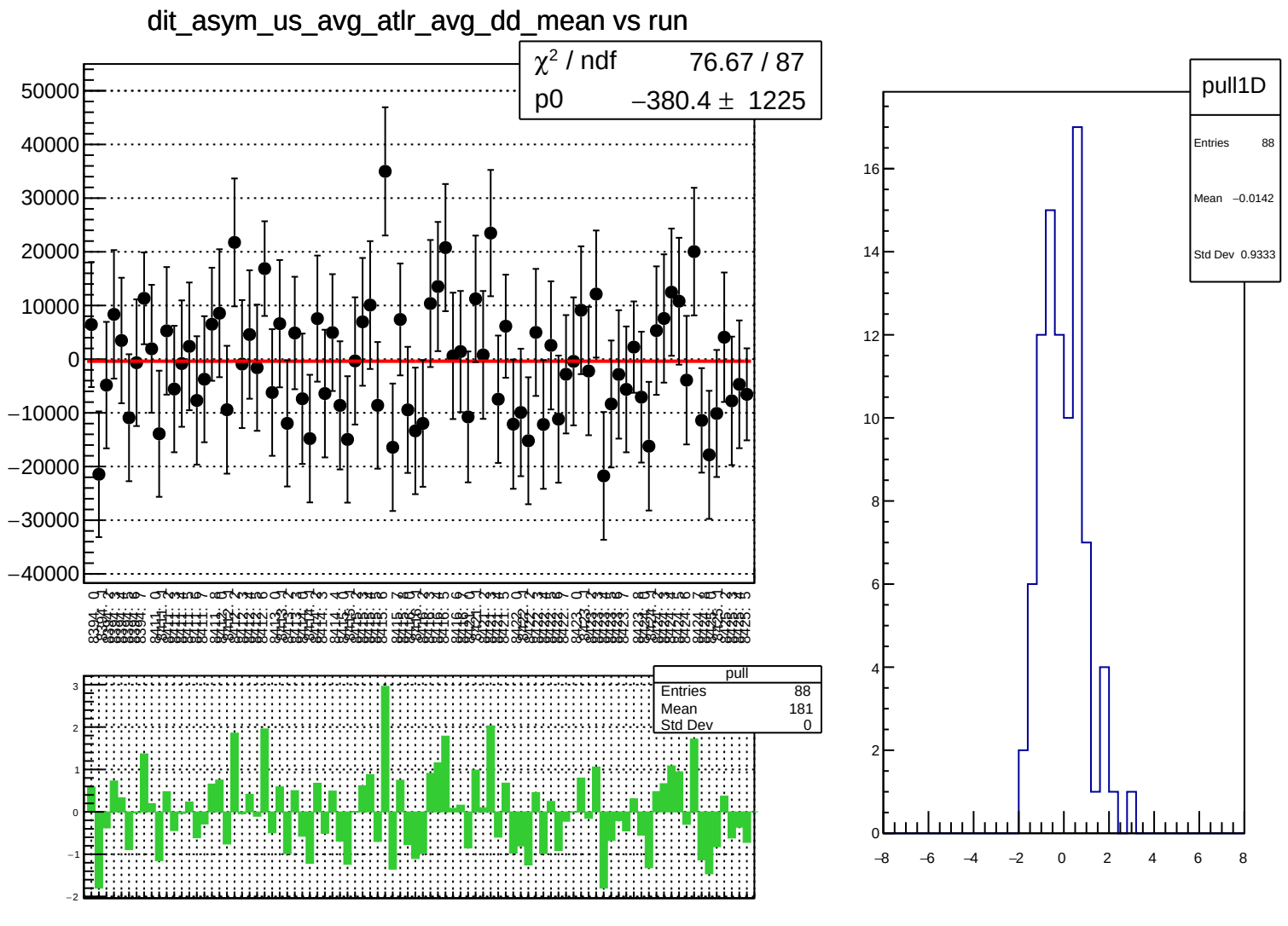

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 78.96 / 87
p0 −333.8 ± 1220
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 139.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01396
Std Dev 0.9471
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

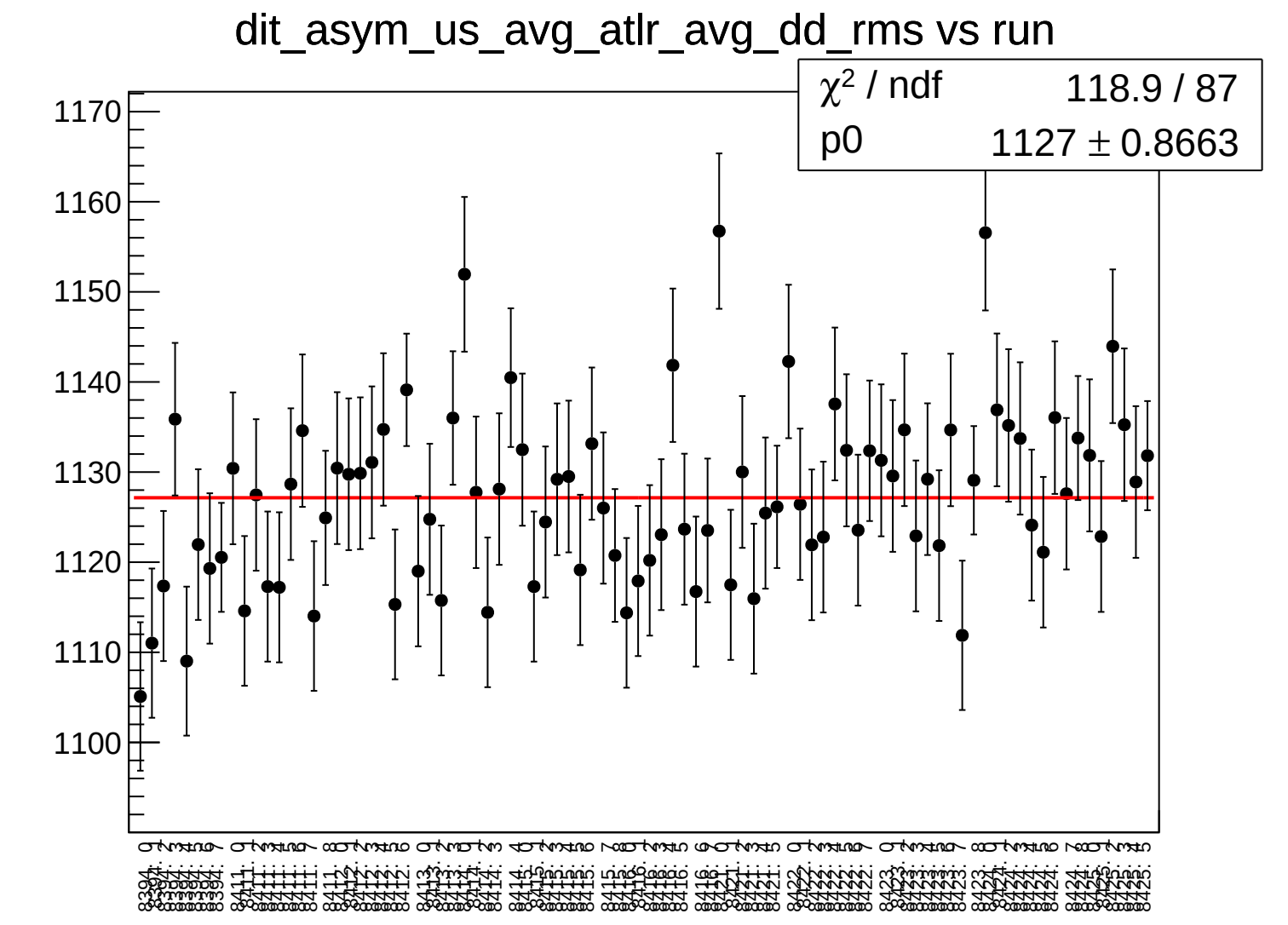

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 122.9 / 87
p0 1122 ± 0.8625
1160
1150
1140
1130
1120
1110
1100
1090
1080

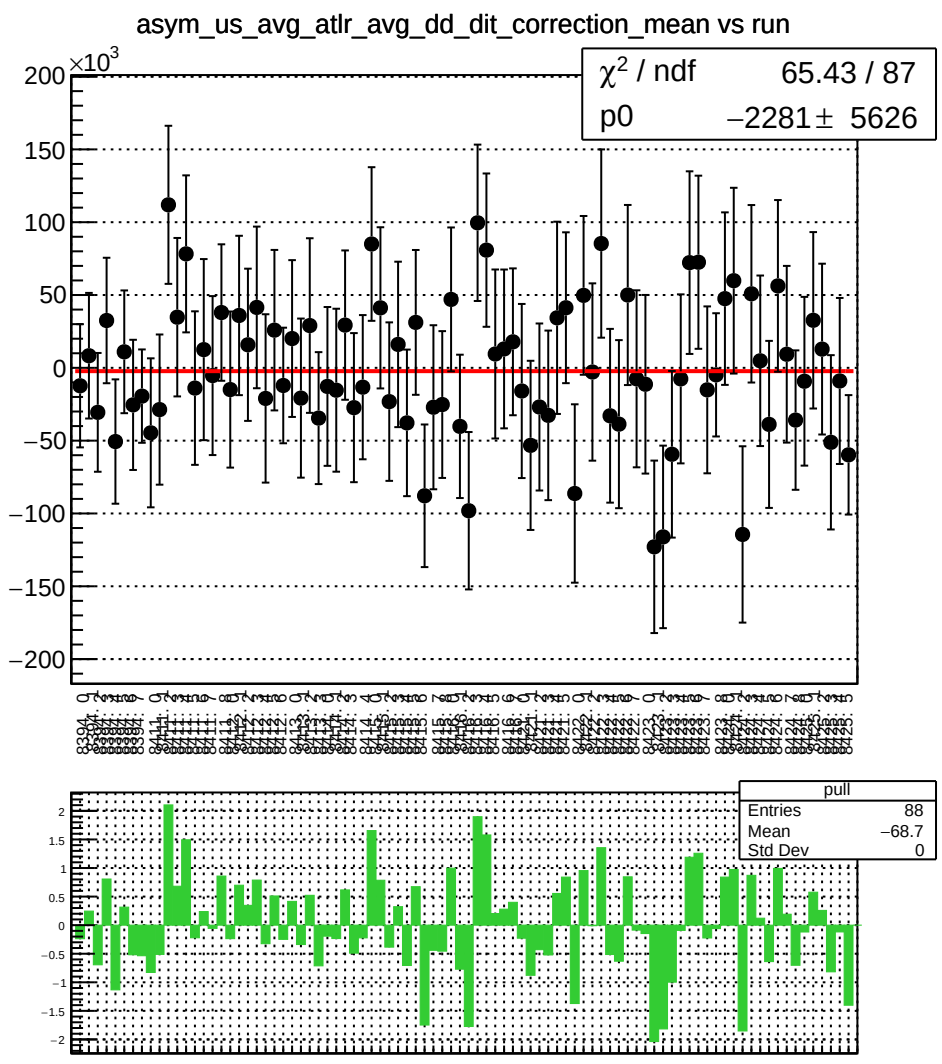

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 65.45 / 87
p0 −2402 ± 5628
pull
Entries 88
Mean −50.27
Std Dev 0

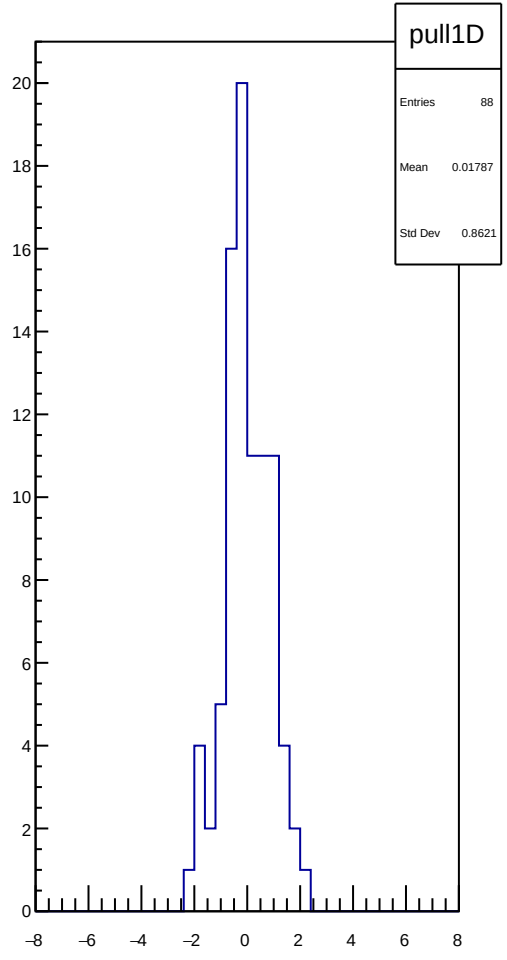

pull1D
Entries 88
Mean 0.01964
Std Dev 0.8622

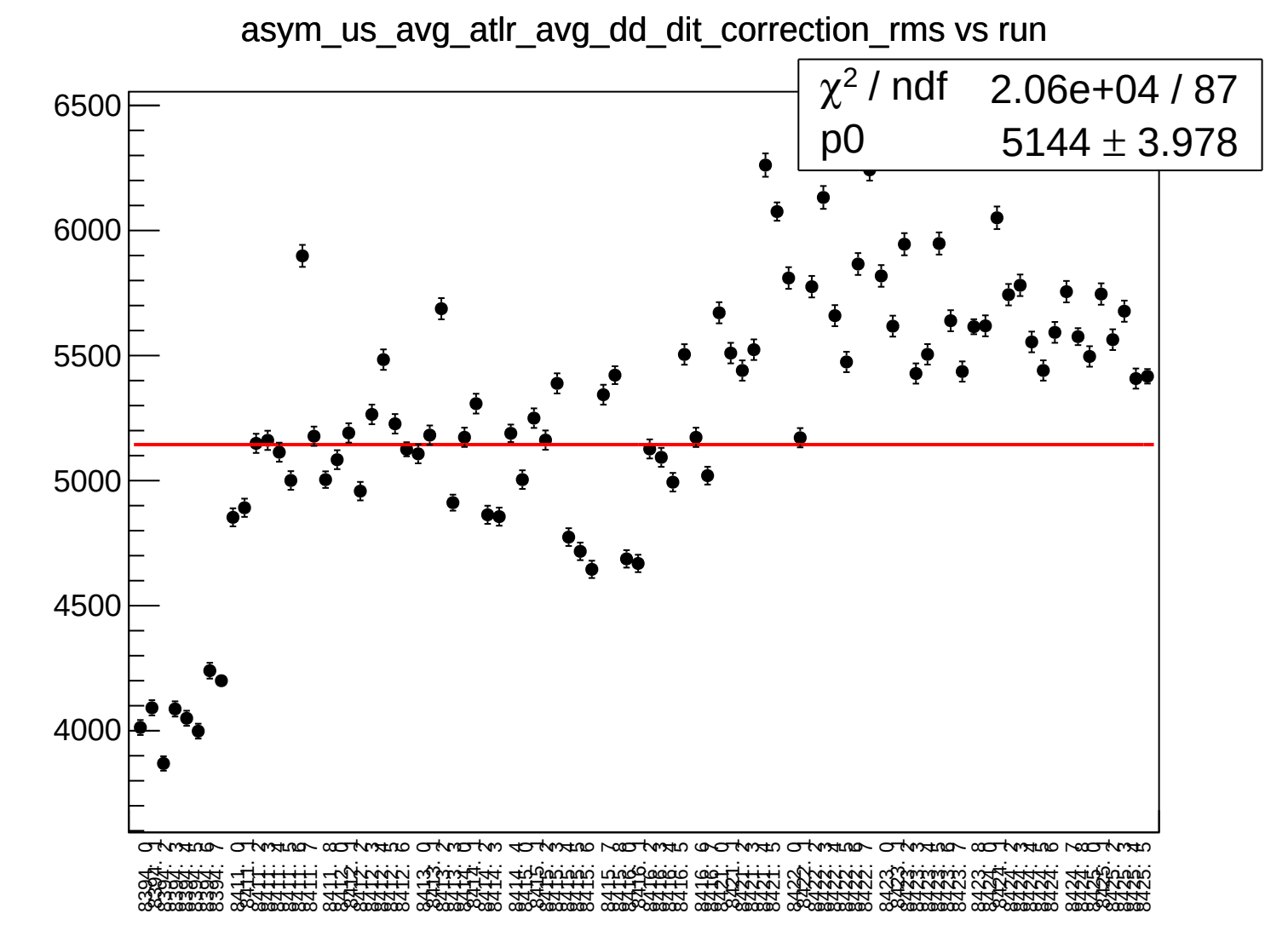

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.341e+04 / 87
p0 5142 ± 3.98
6500
6000
5500
5000
4500
4000
3500

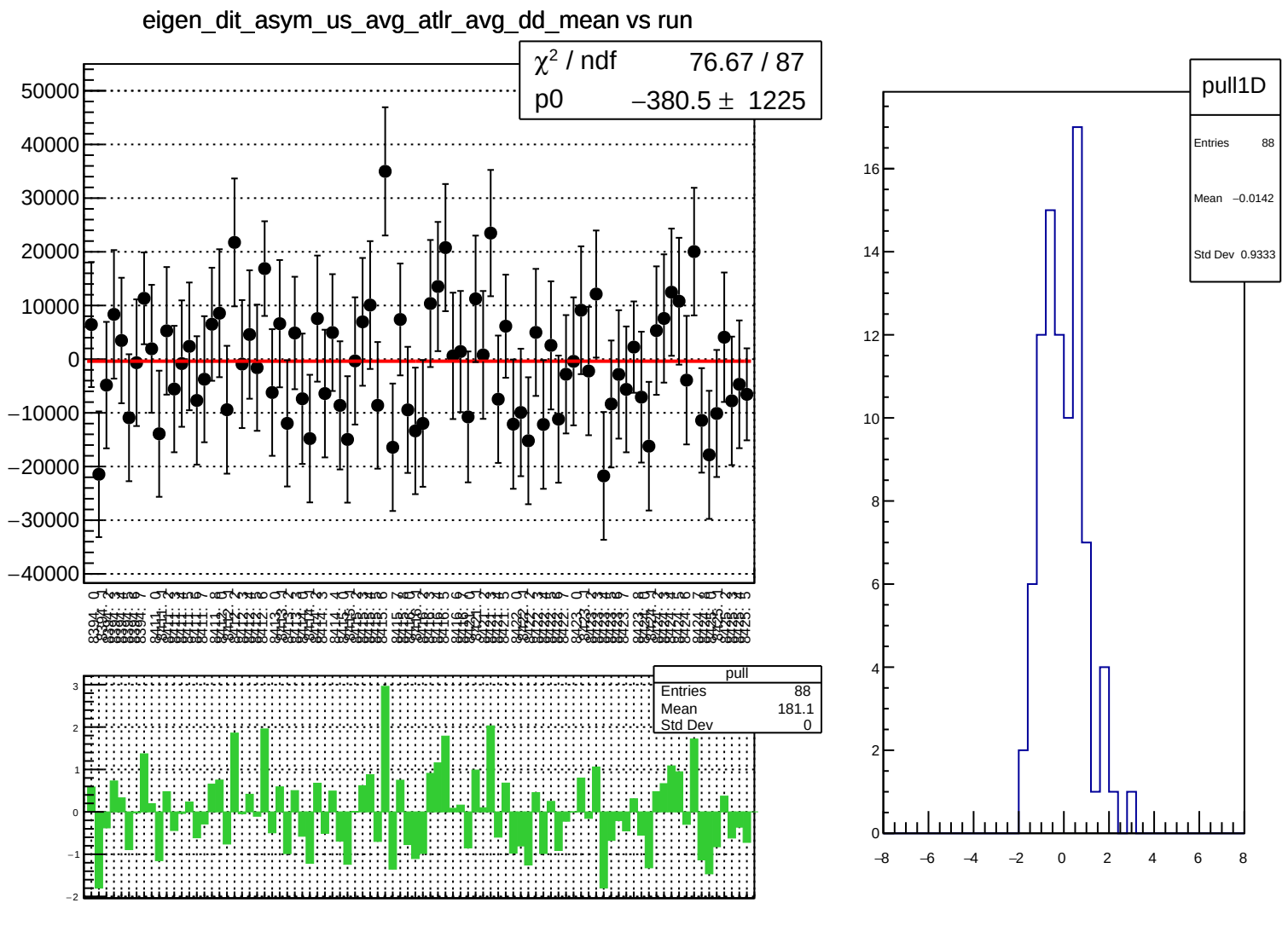

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 76.67 / 87
p0 −380.4 ± 1225
pull
Entries 88
Mean 181
Std Dev 0
pull1D
Entries 88
Mean −0.0142
Std Dev 0.9333

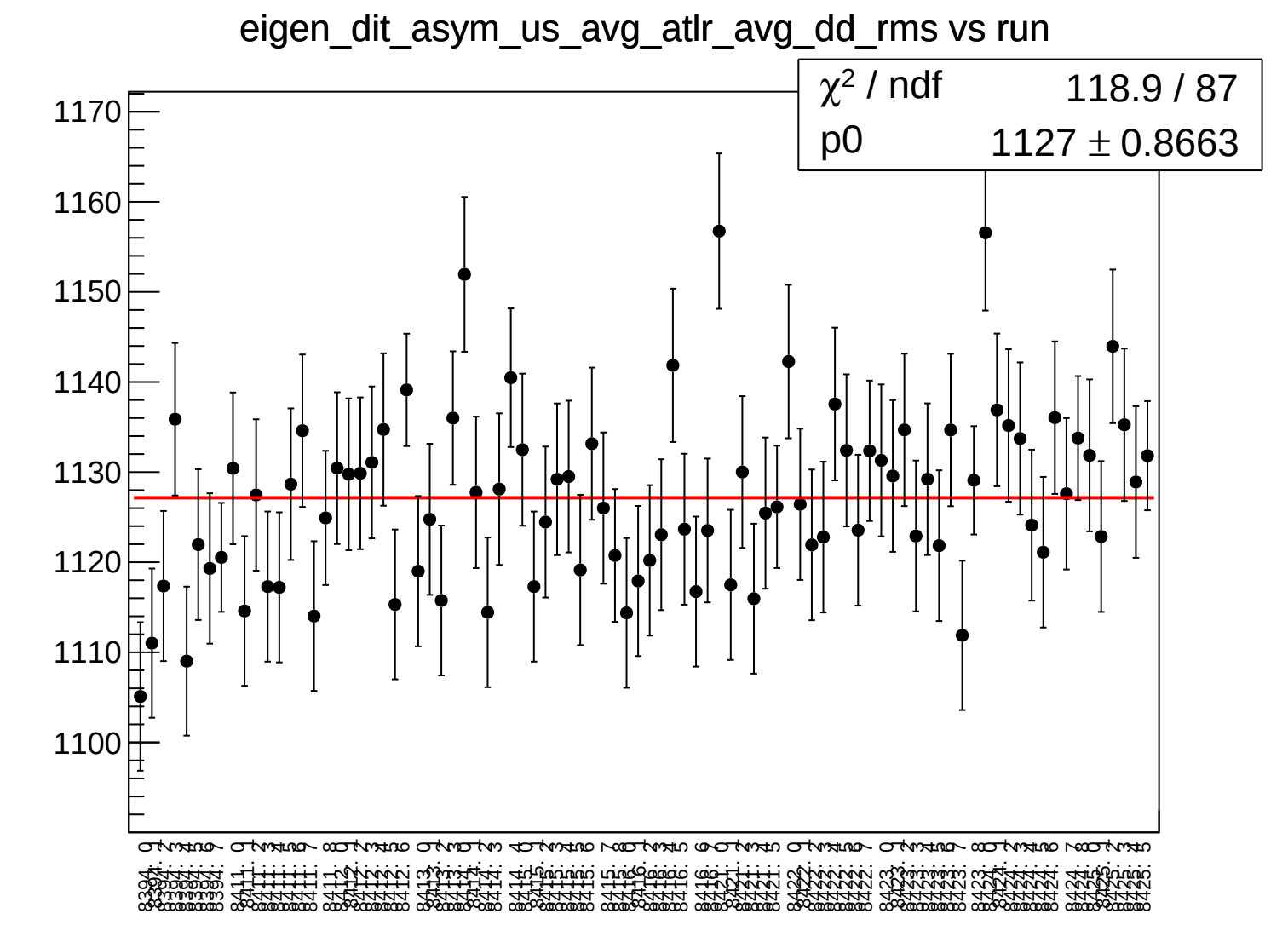

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 118.9 / 87
p0 1127 ± 0.8663
1170
1160
1150
1140
1130
1120
1110
1100

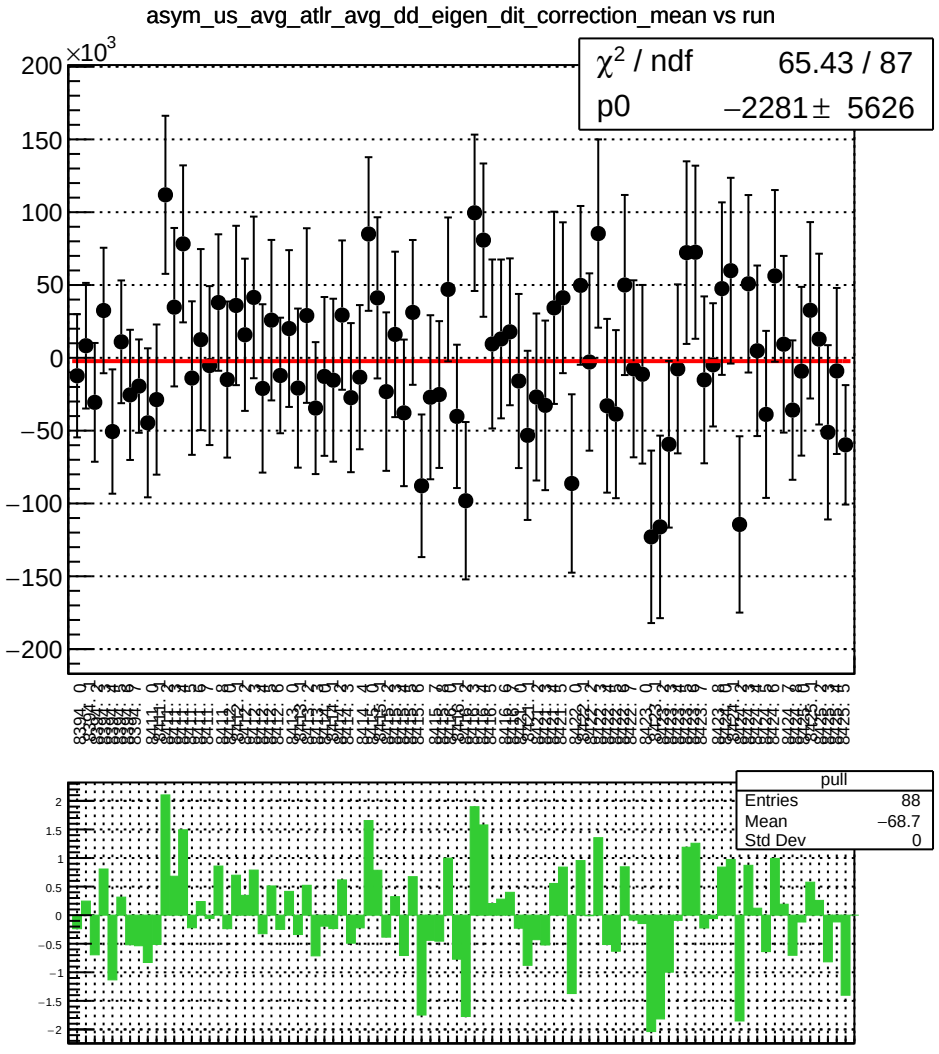

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 65.43 / 87
p0 −2281 ± 5626
pull
Entries 88
Mean −68.7
Std Dev 0

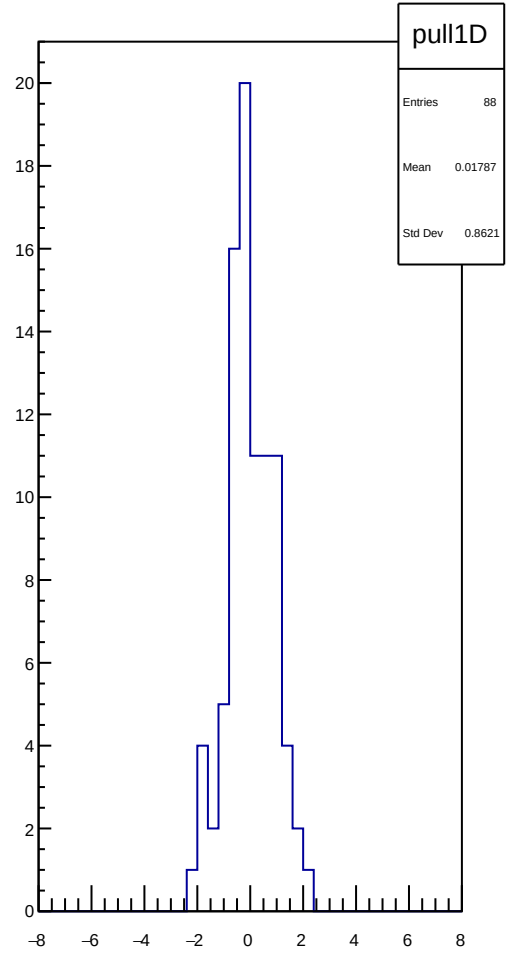

pull1D
Entries 88
Mean 0.01787
Std Dev 0.8621

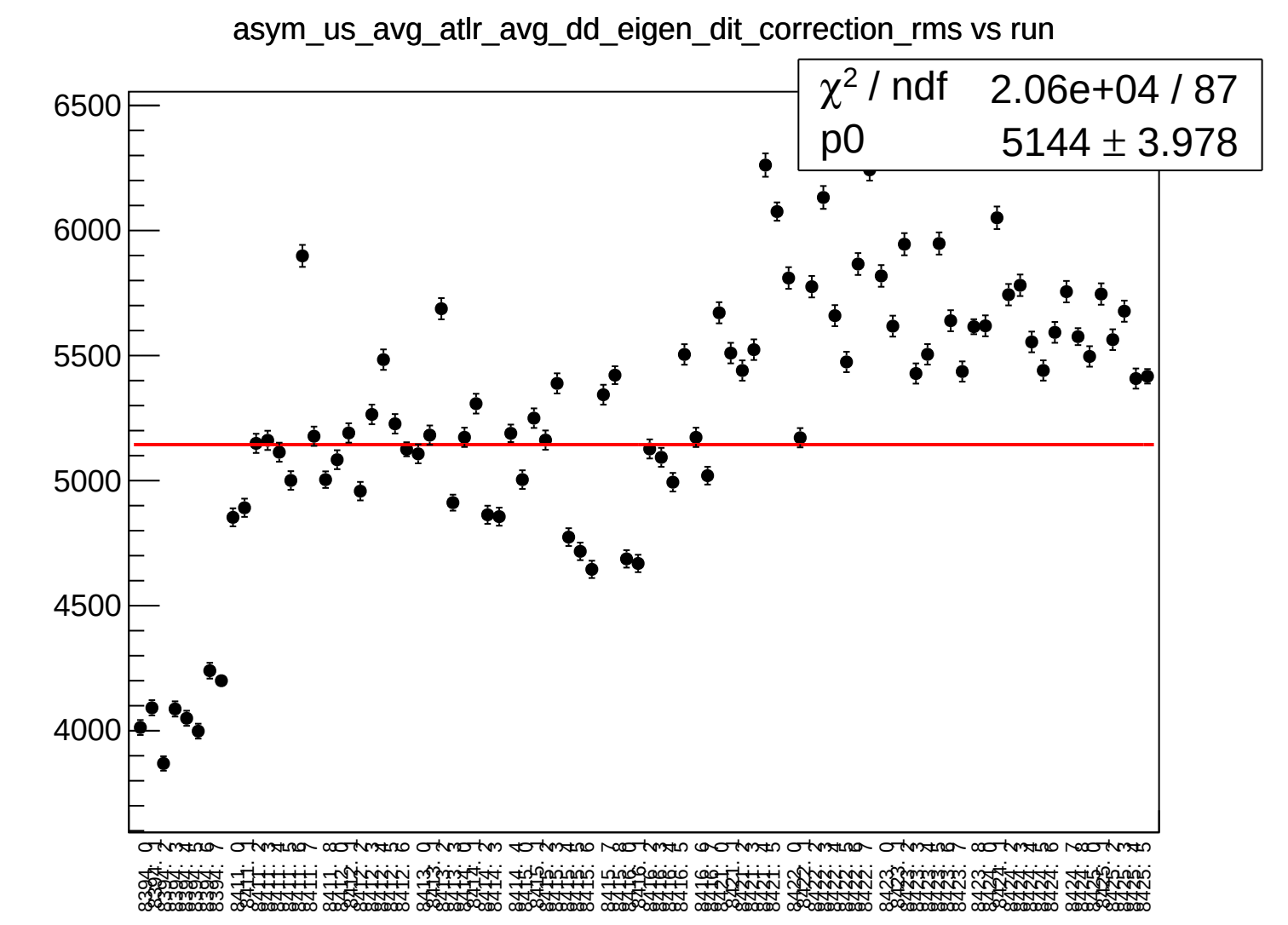

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 2.06e+04 / 87
p0 5144 ± 3.978
6500
6000
5500
5000
4500
4000

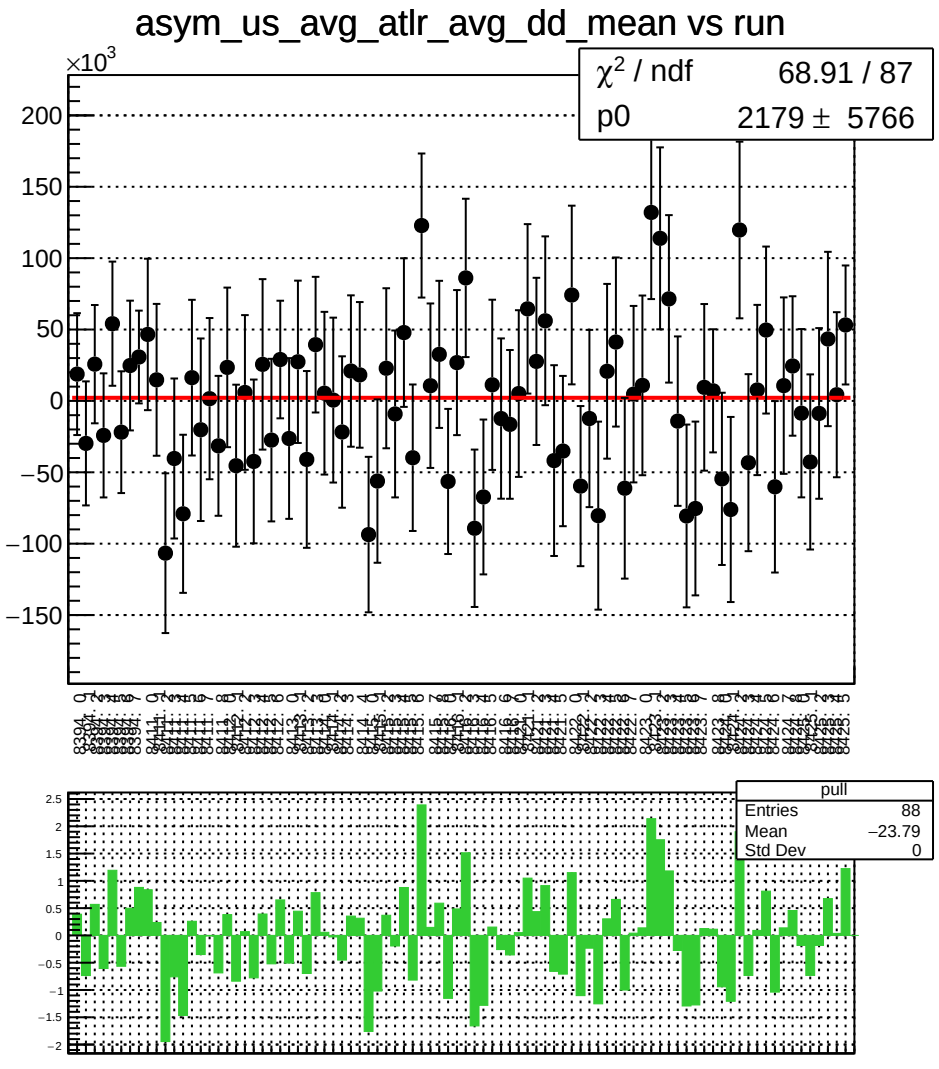

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 76.67 / 87
p0 −380.5 ± 1225
pull
Entries 88
Mean 181.1
Std Dev 0
pull1D
Entries 88
Mean −0.0142
Std Dev 0.9333

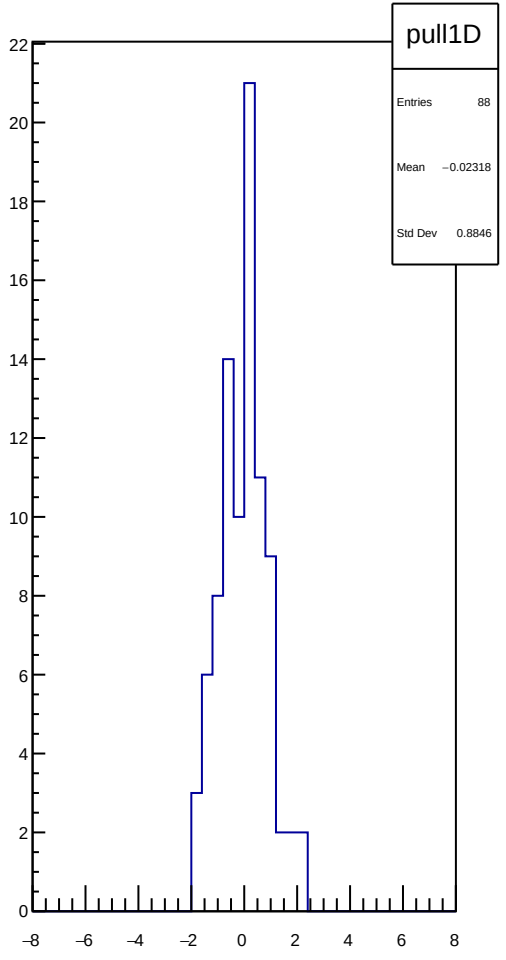

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ^2 / ndf 118.9 / 87
p0 1127 ± 0.8663
1170
1160
1150
1140
1130
1120
1110
1100

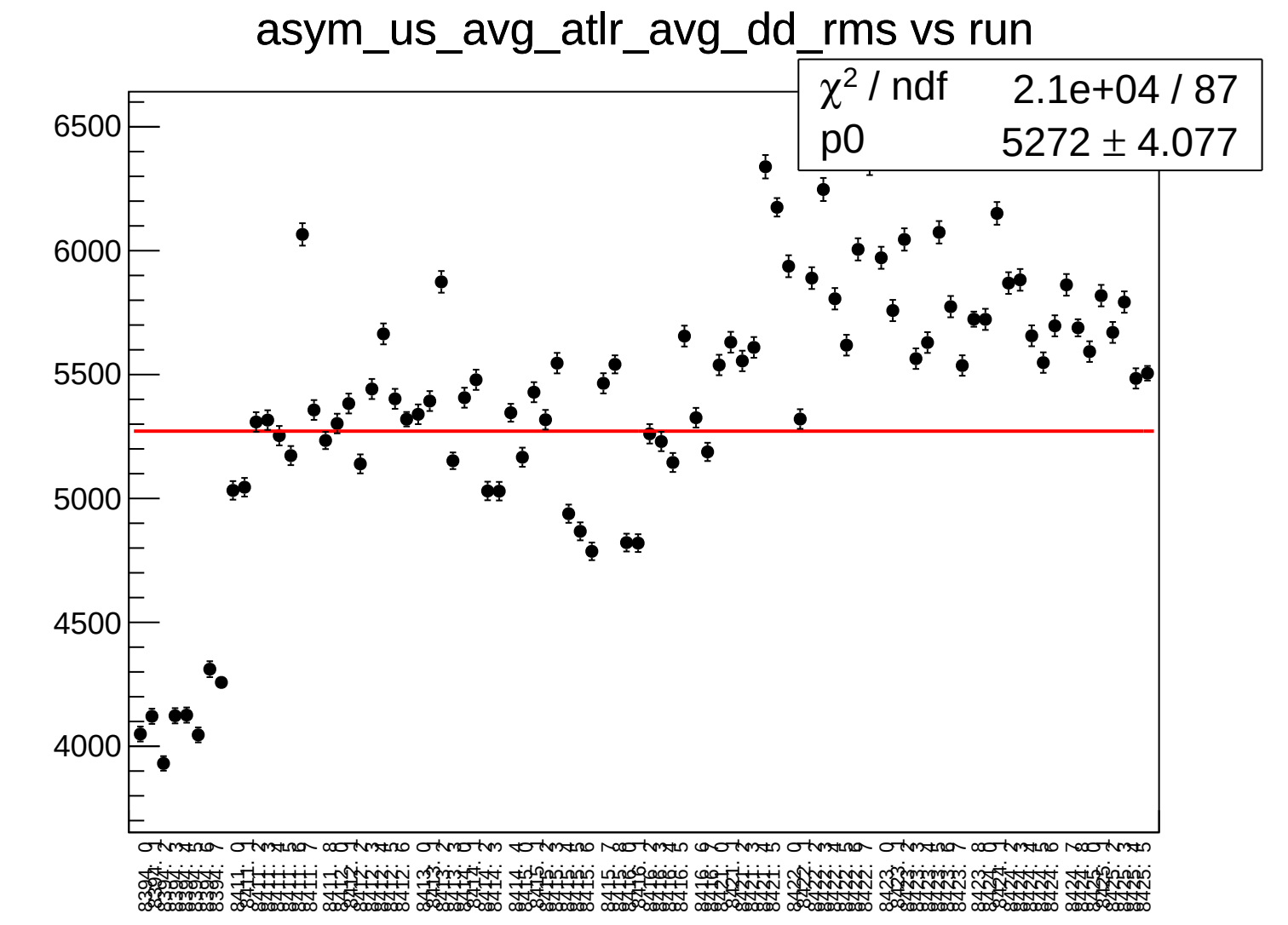

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 65.43 / 87
p0 −2281 ± 5626
×10³
pull
Entries 88
Mean −68.7
Std Dev 0

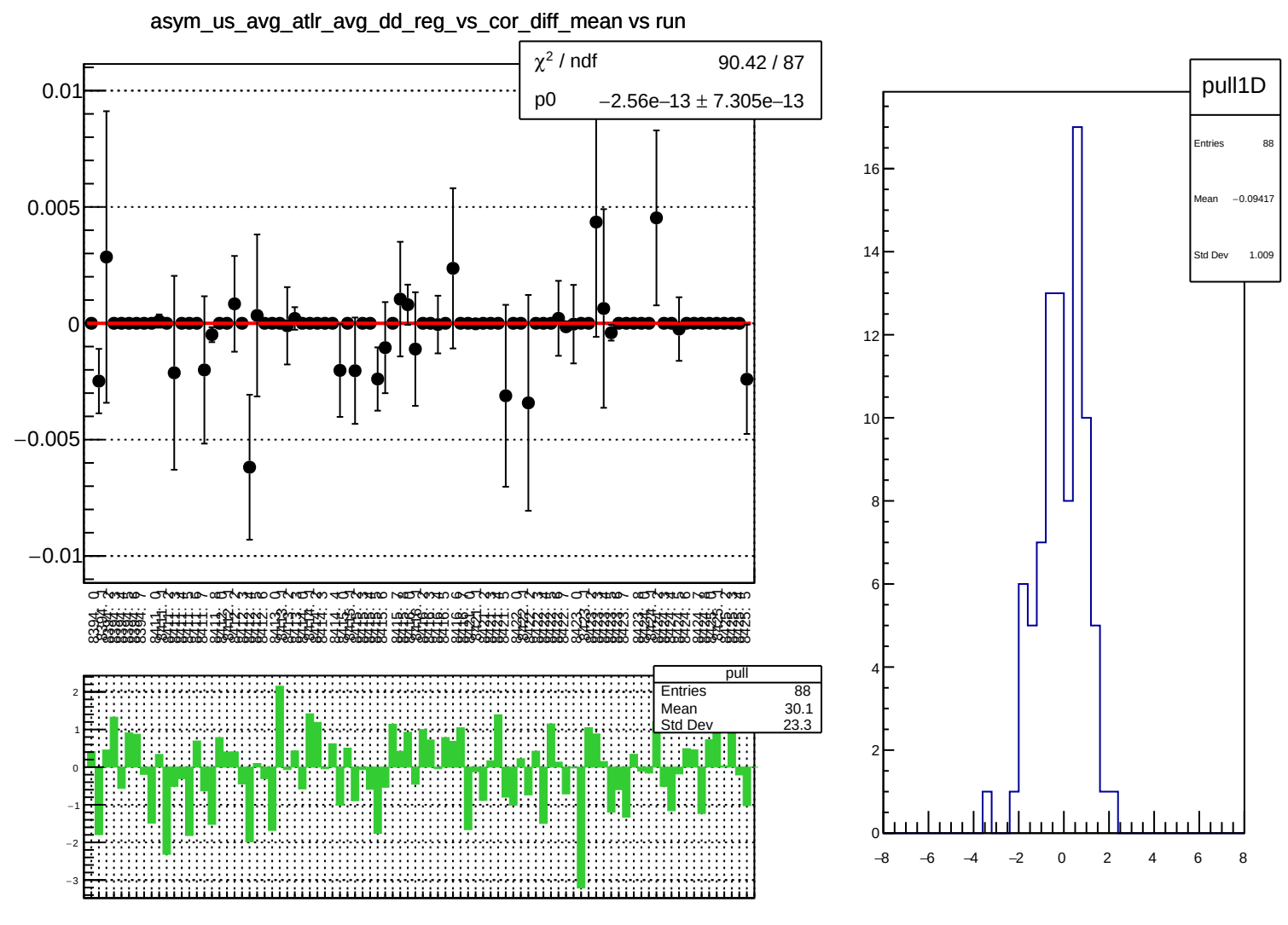

pull1D
Entries 88
Mean 0.01787
Std Dev 0.8621

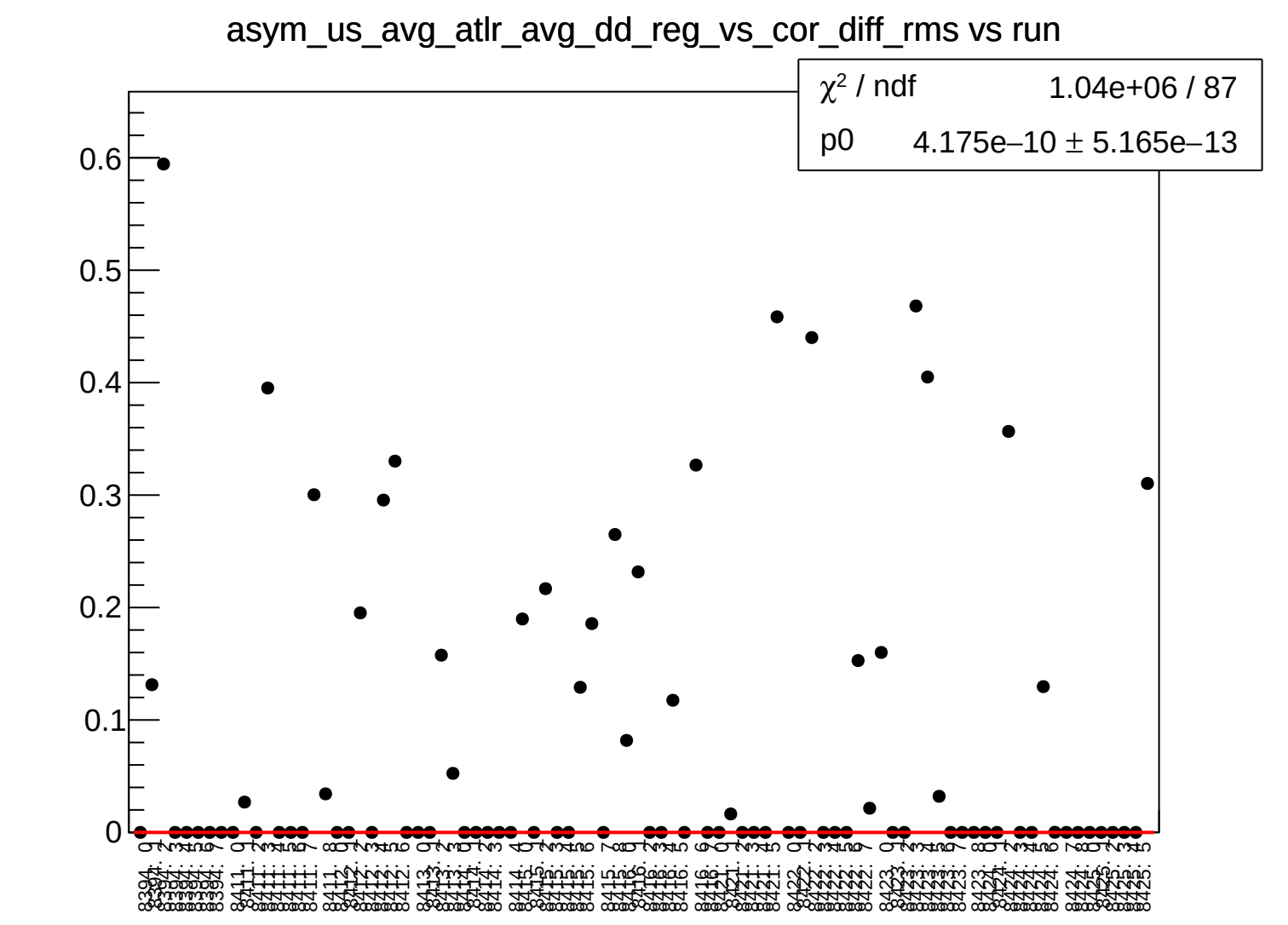

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.06e+04 / 87
p0 5144 ± 3.978
6500
6000
5500
5000
4500
4000

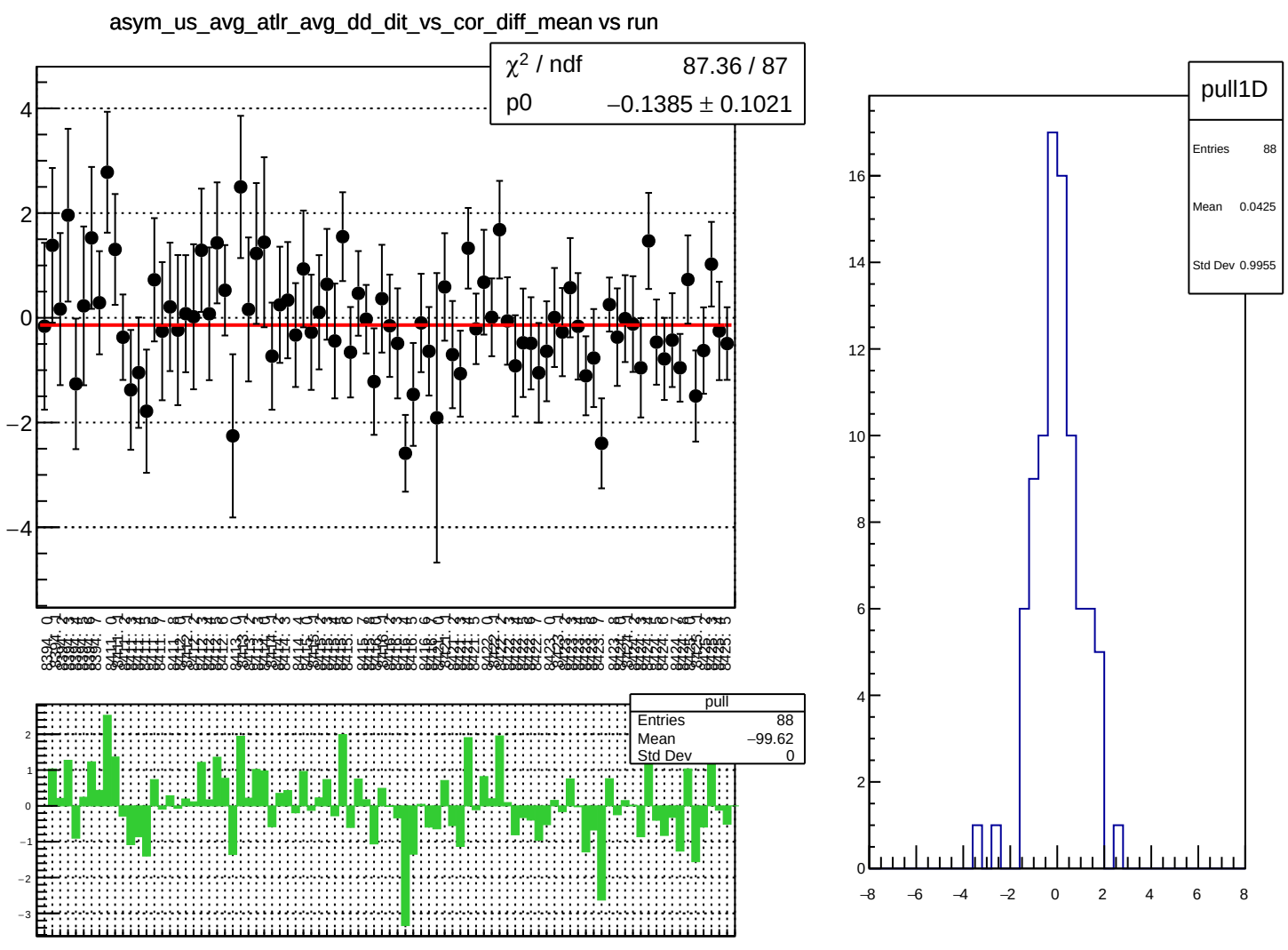

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ² / ndf 68.91 / 87
p0 2179 ± 5766
200
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −23.79
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

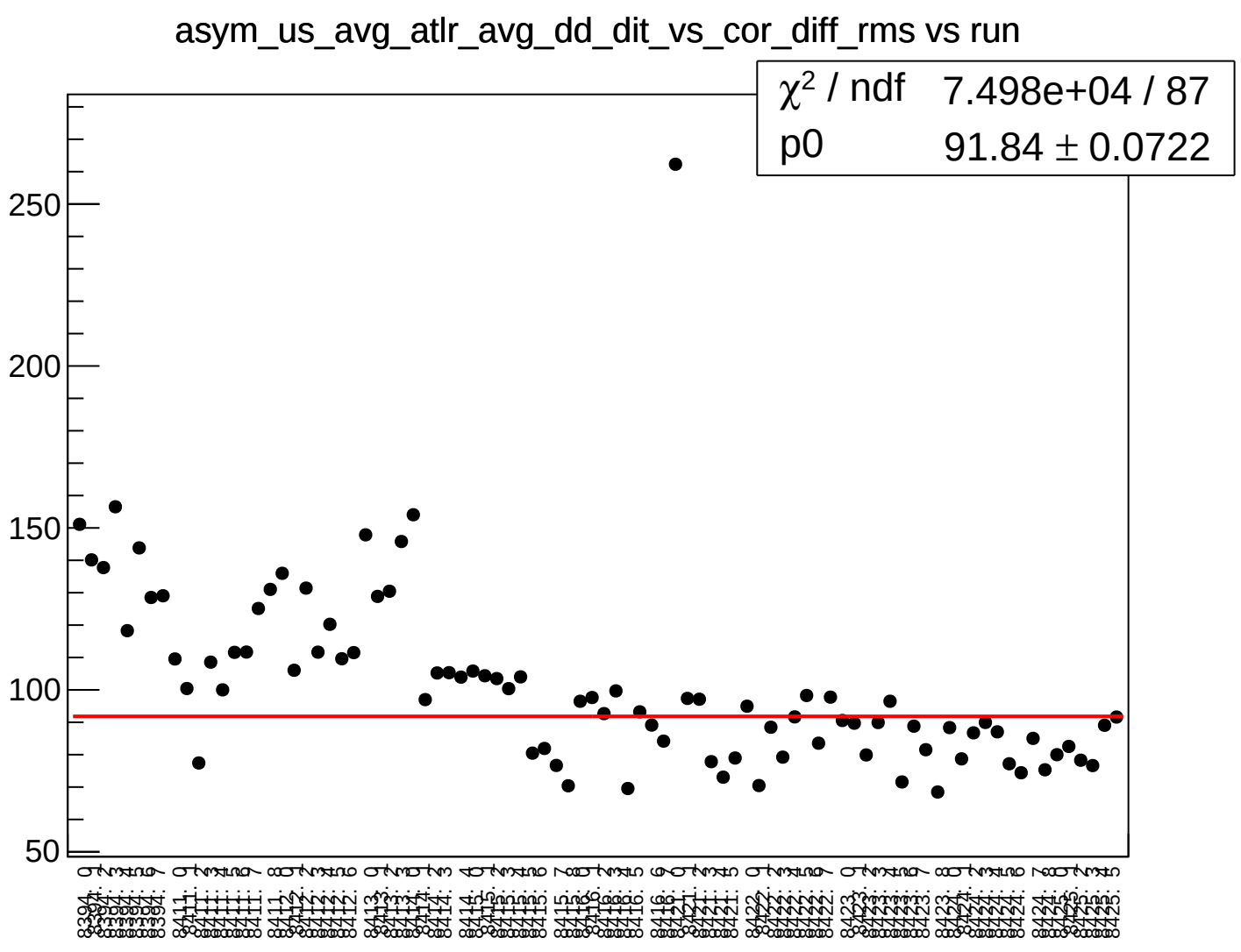

pull1D
Entries 88
Mean −0.02318
Std Dev 0.8846
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

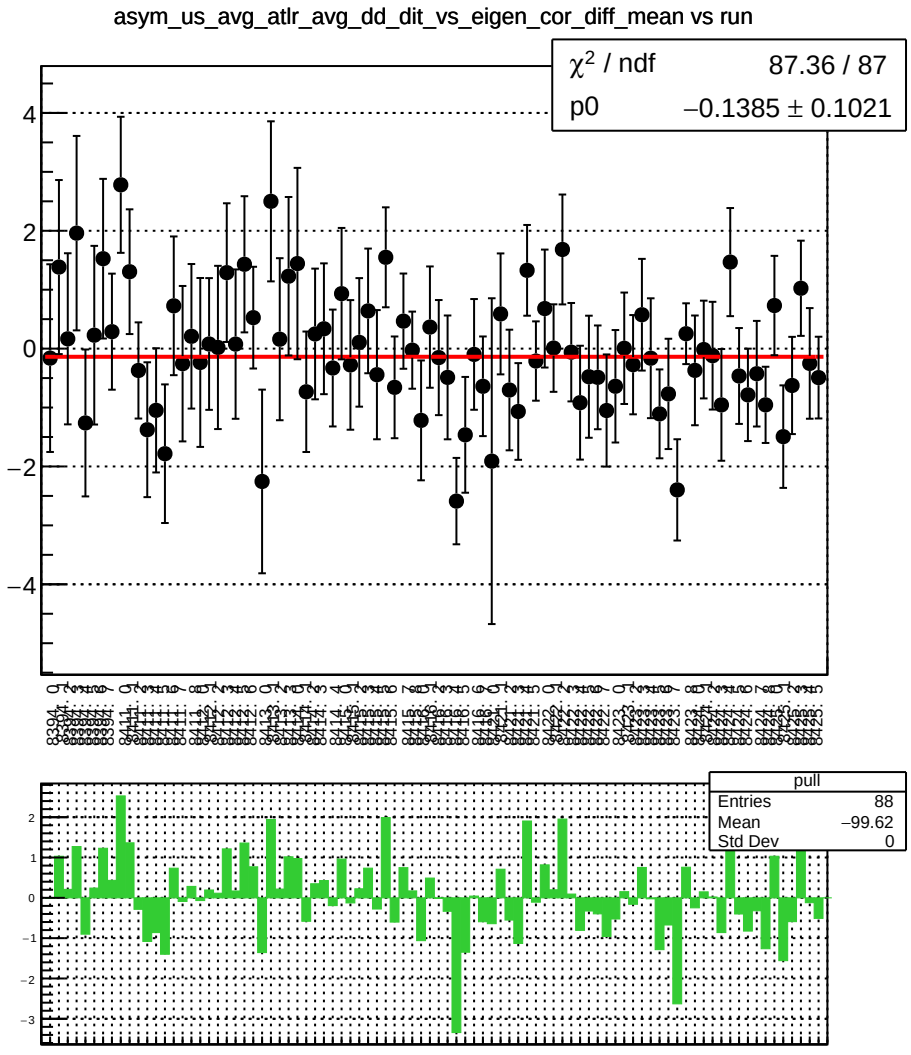

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 2.1e+04 / 87
p0 5272 ± 4.077
6500
6000
5500
5000
4500
4000

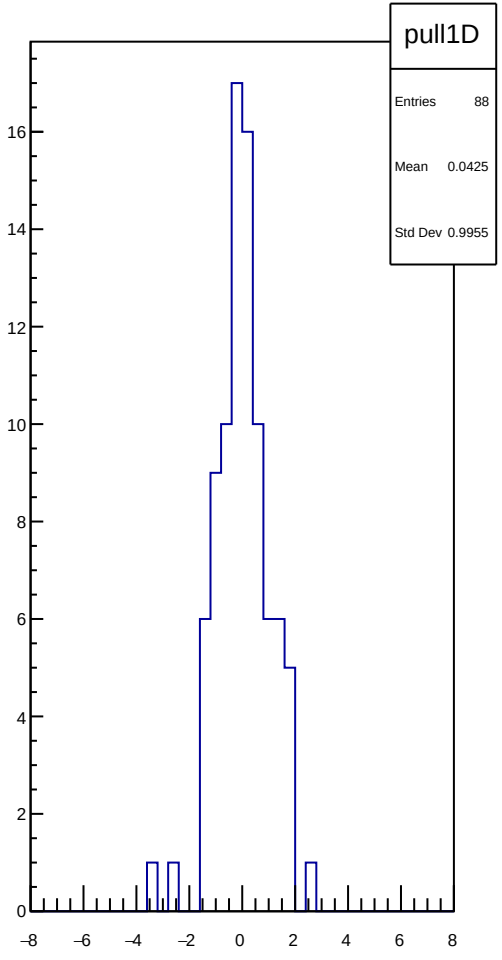

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.42 / 87
p0 −2.56e−13 ± 7.305e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 88
Mean 30.1
Std Dev 23.3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.09417
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

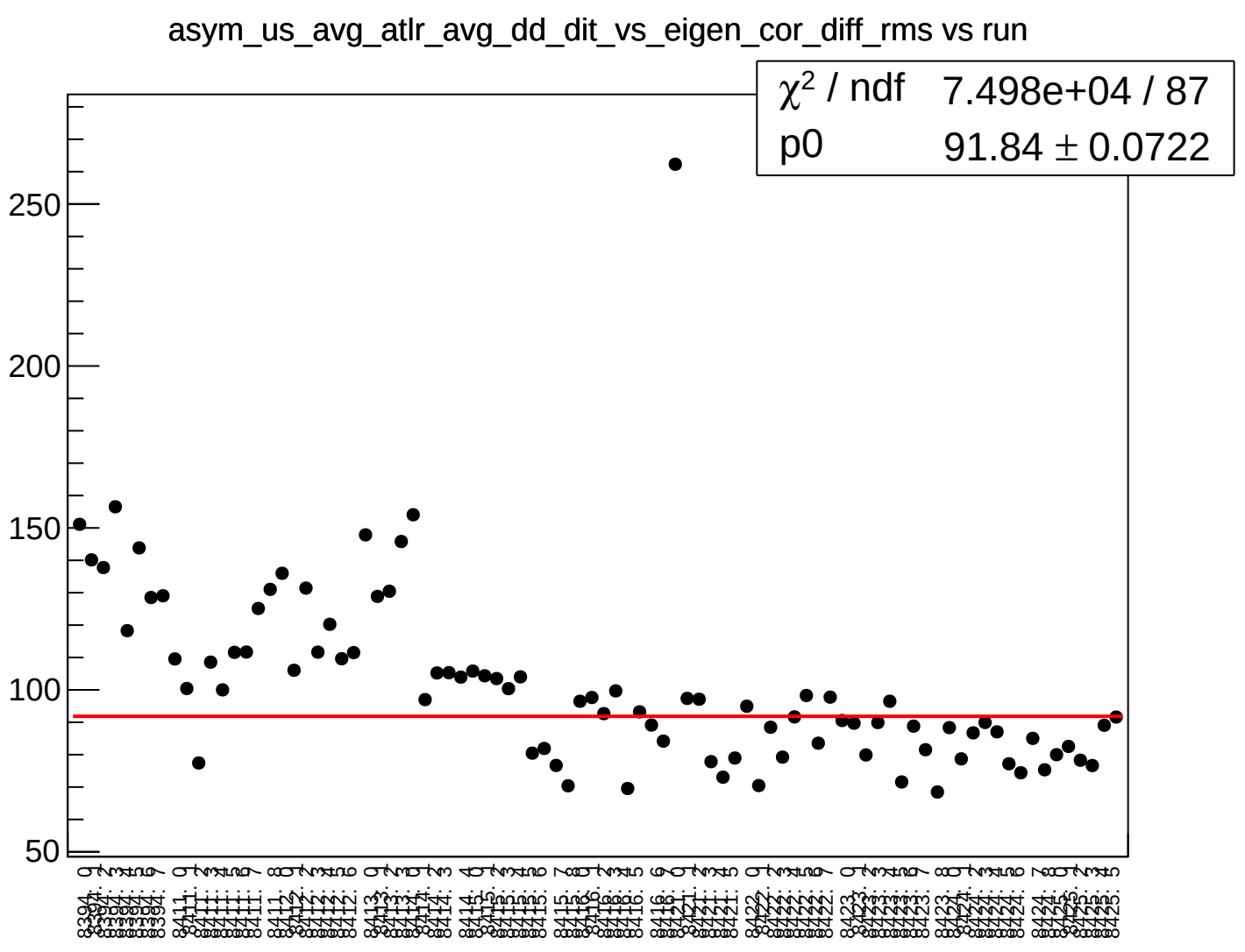

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.04e+06 / 87
p0 4.175e−10 ± 5.165e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

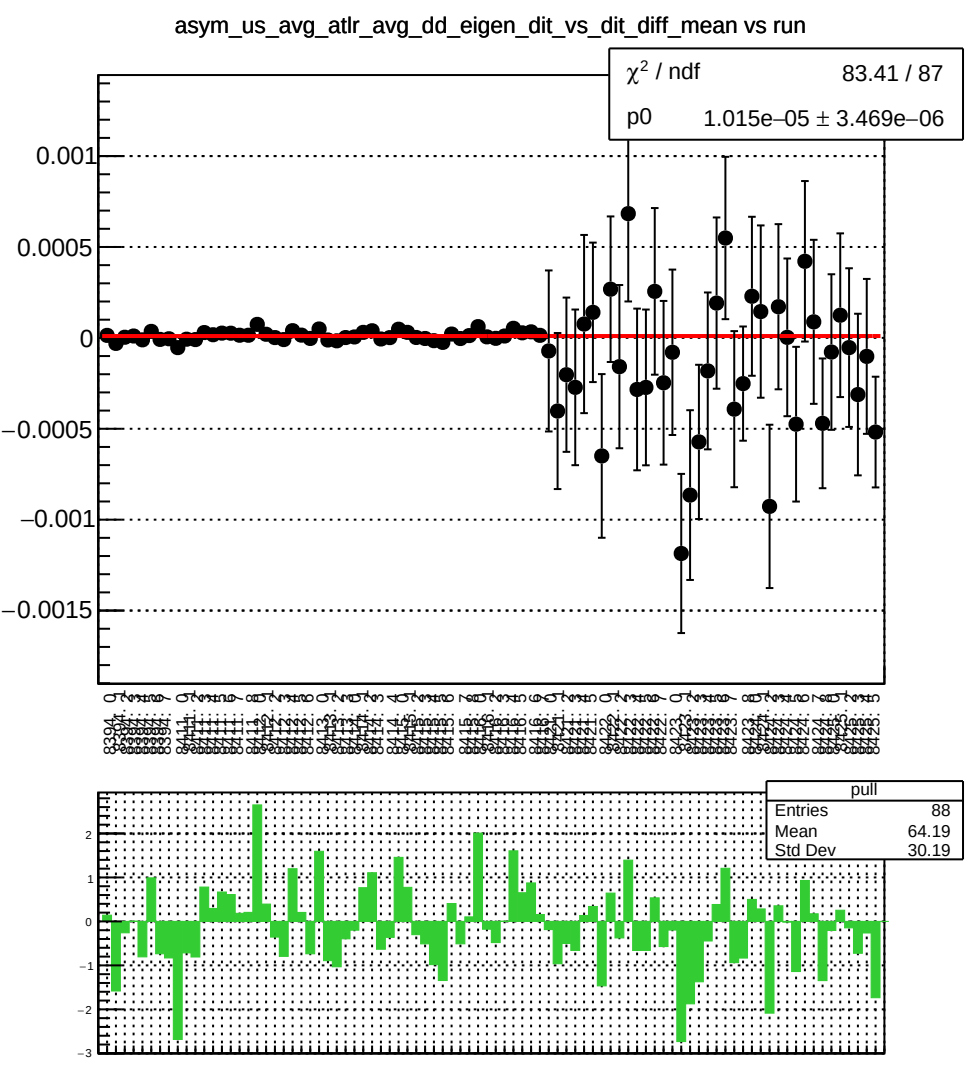

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.36 / 87
p0 −0.1385 ± 0.1021
pull
Entries 88
Mean −99.62
Std Dev 0
pull1D
Entries 88
Mean 0.0425
Std Dev 0.9955

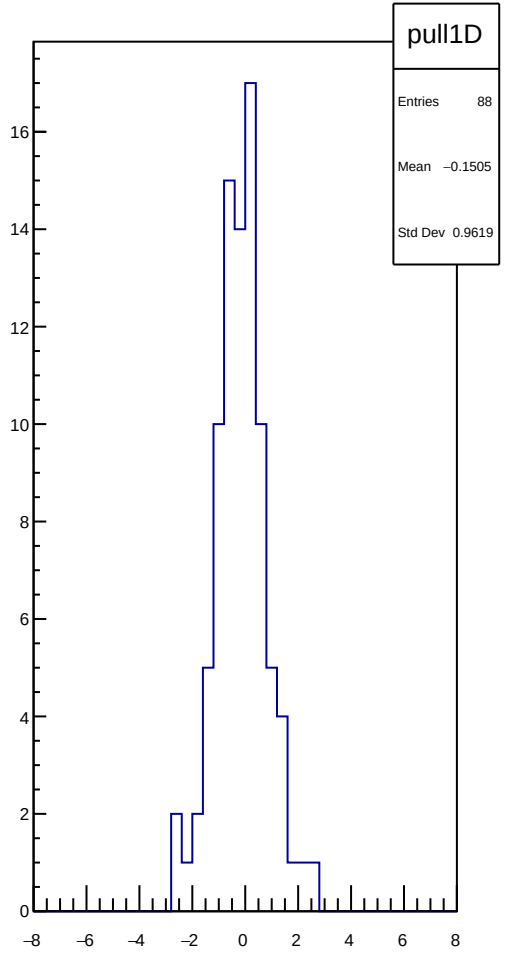

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.498e+04 / 87
p0 91.84 ± 0.0722
250
200
150
100
50

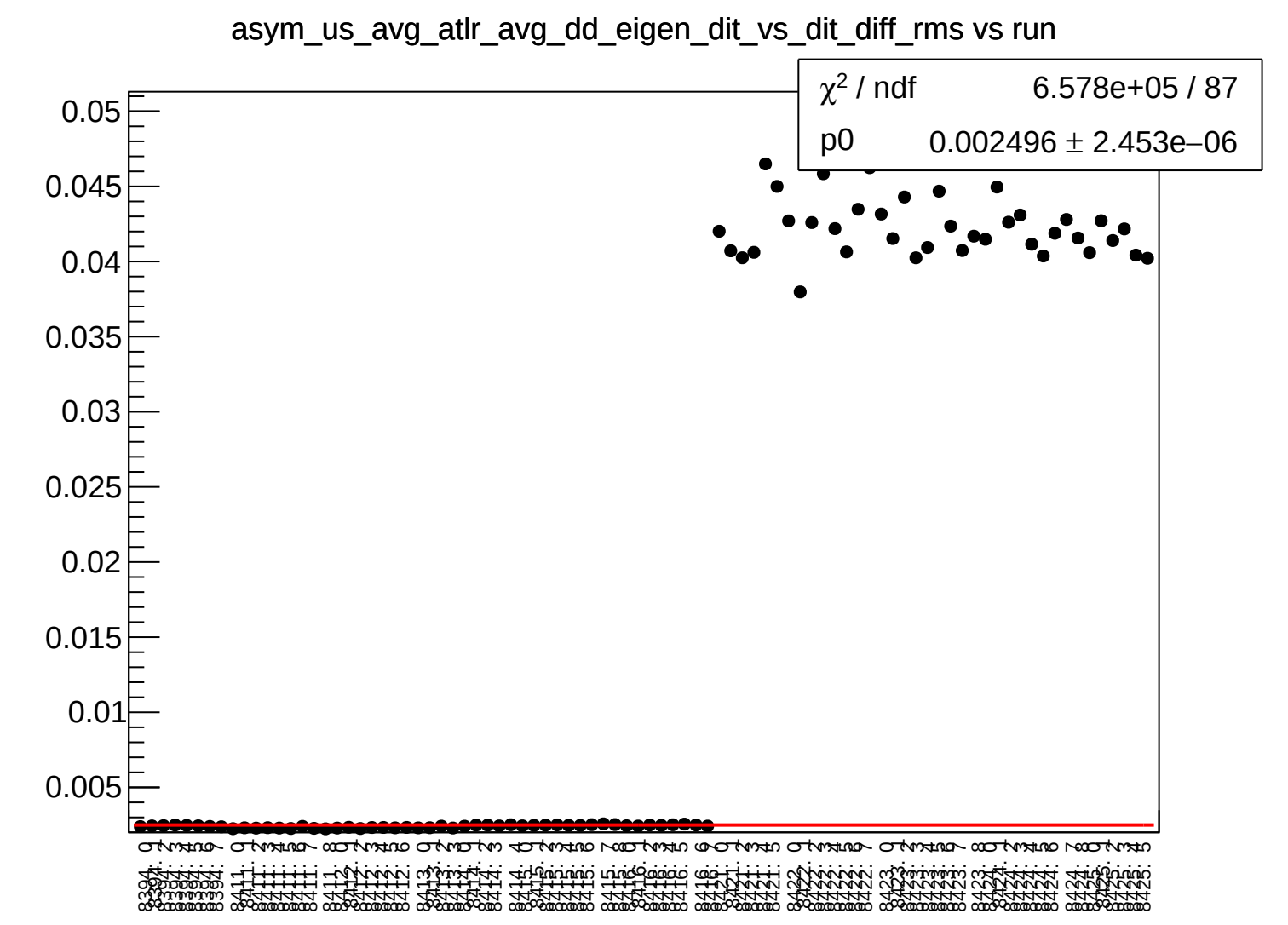

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.36 / 87
p0 −0.1385 ± 0.1021
pull
Entries 88
Mean −99.62
Std Dev 0

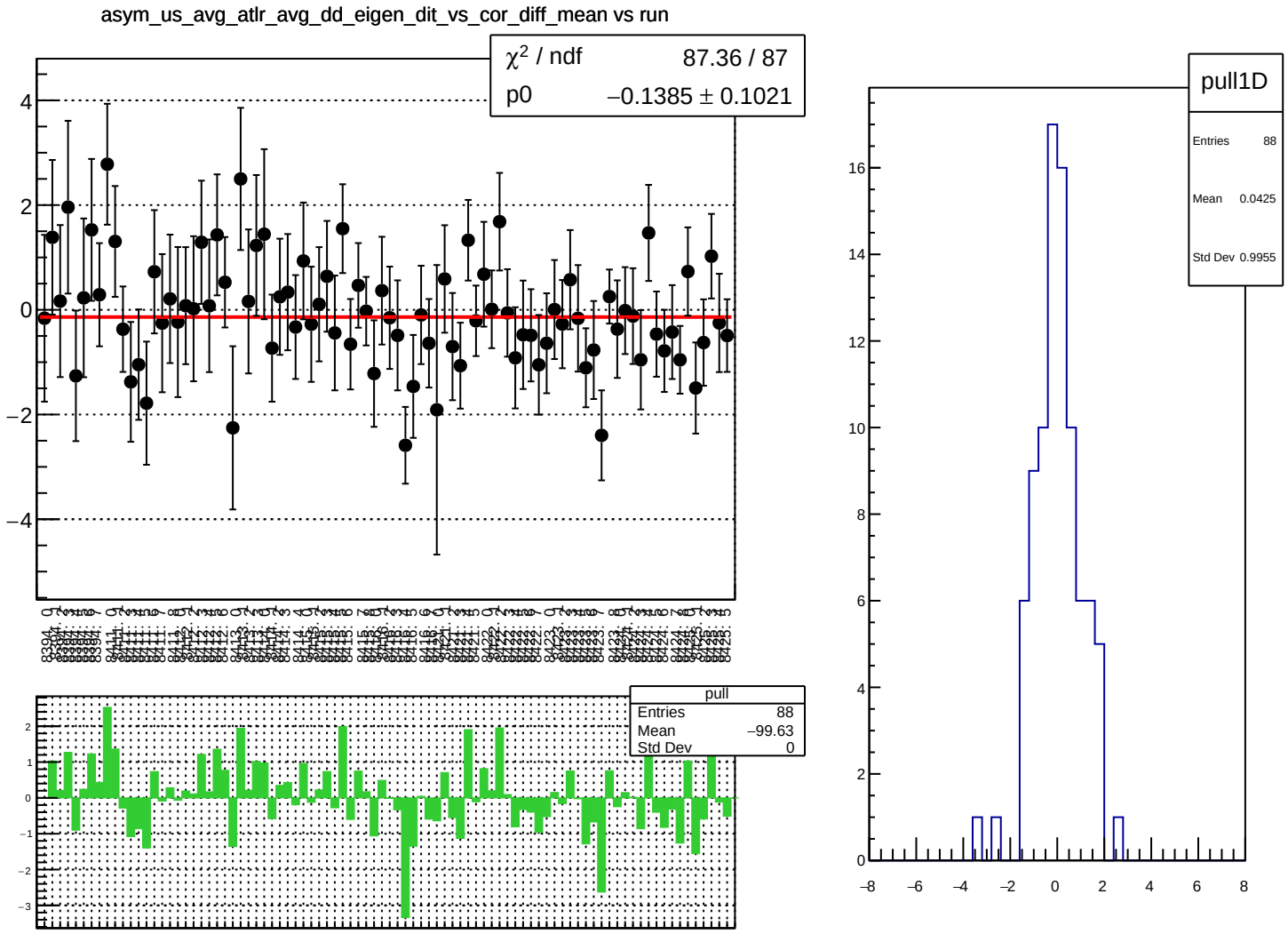

pull1D
Entries 88
Mean 0.0425
Std Dev 0.9955

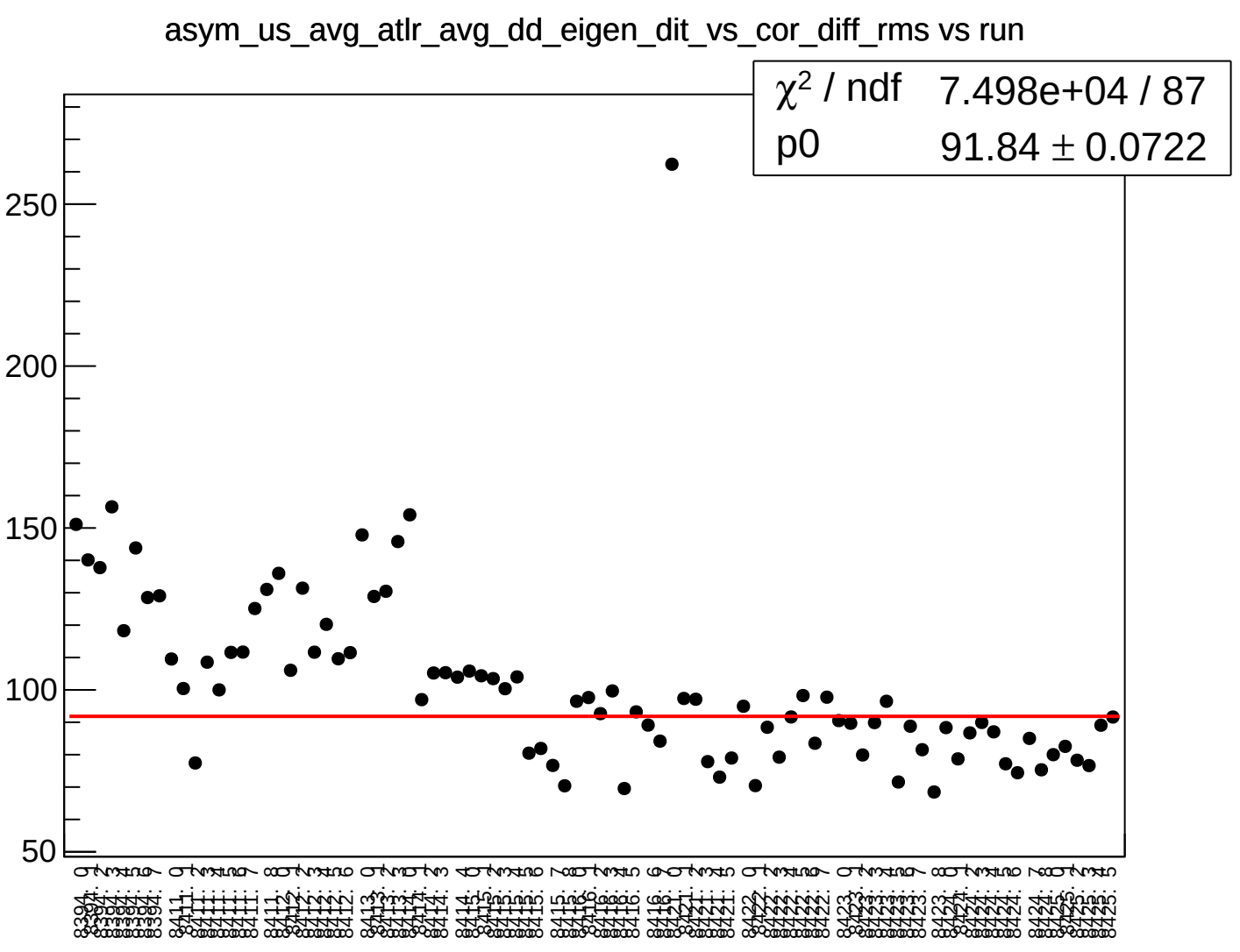

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.498e+04 / 87
p0 91.84 ± 0.0722
250
200
150
100
50

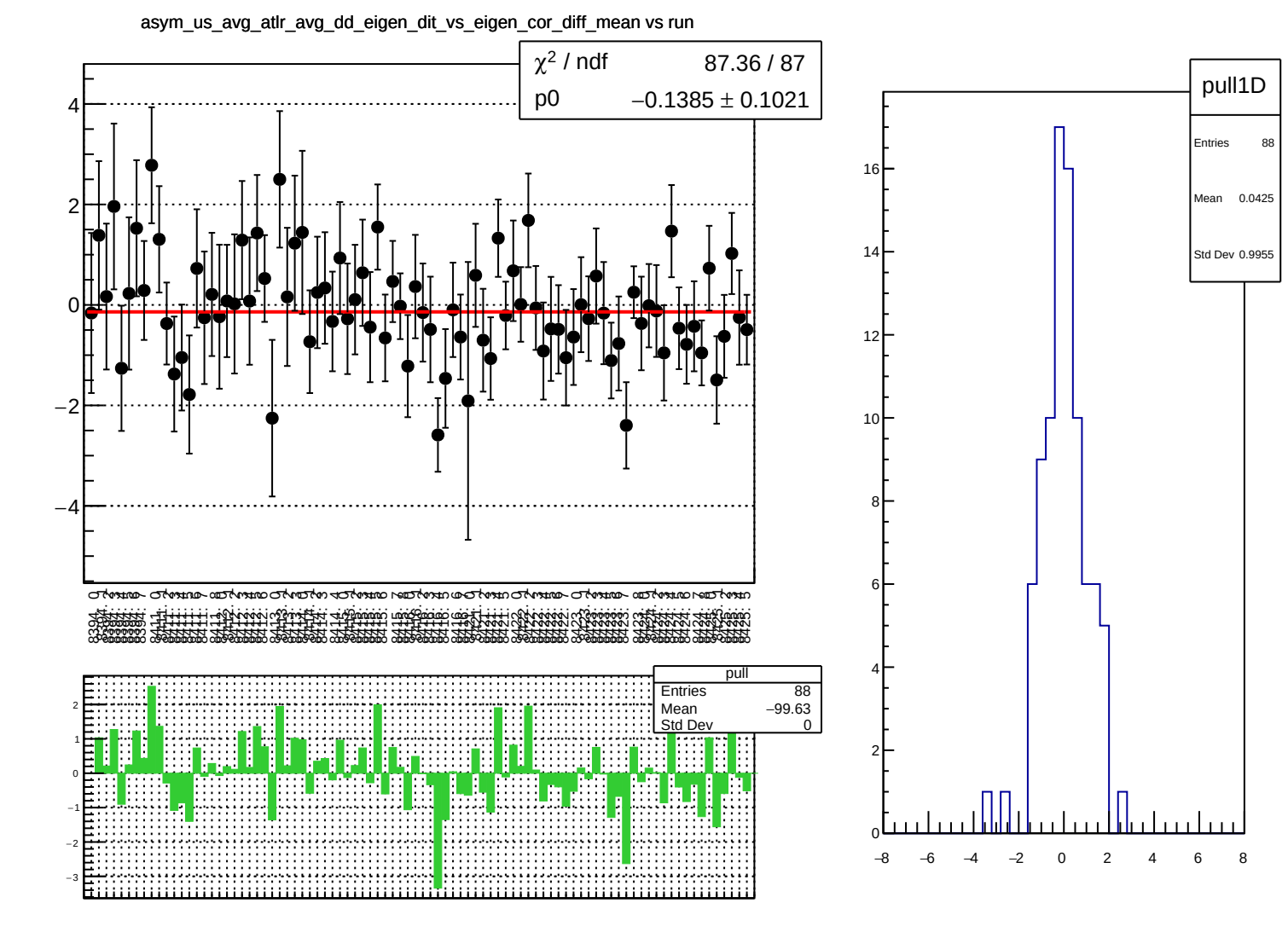

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 83.41 / 87
p0 1.015e−05 ± 3.469e−06
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 88
Mean 64.19
Std Dev 30.19
2
1
0
−1
−2
−3

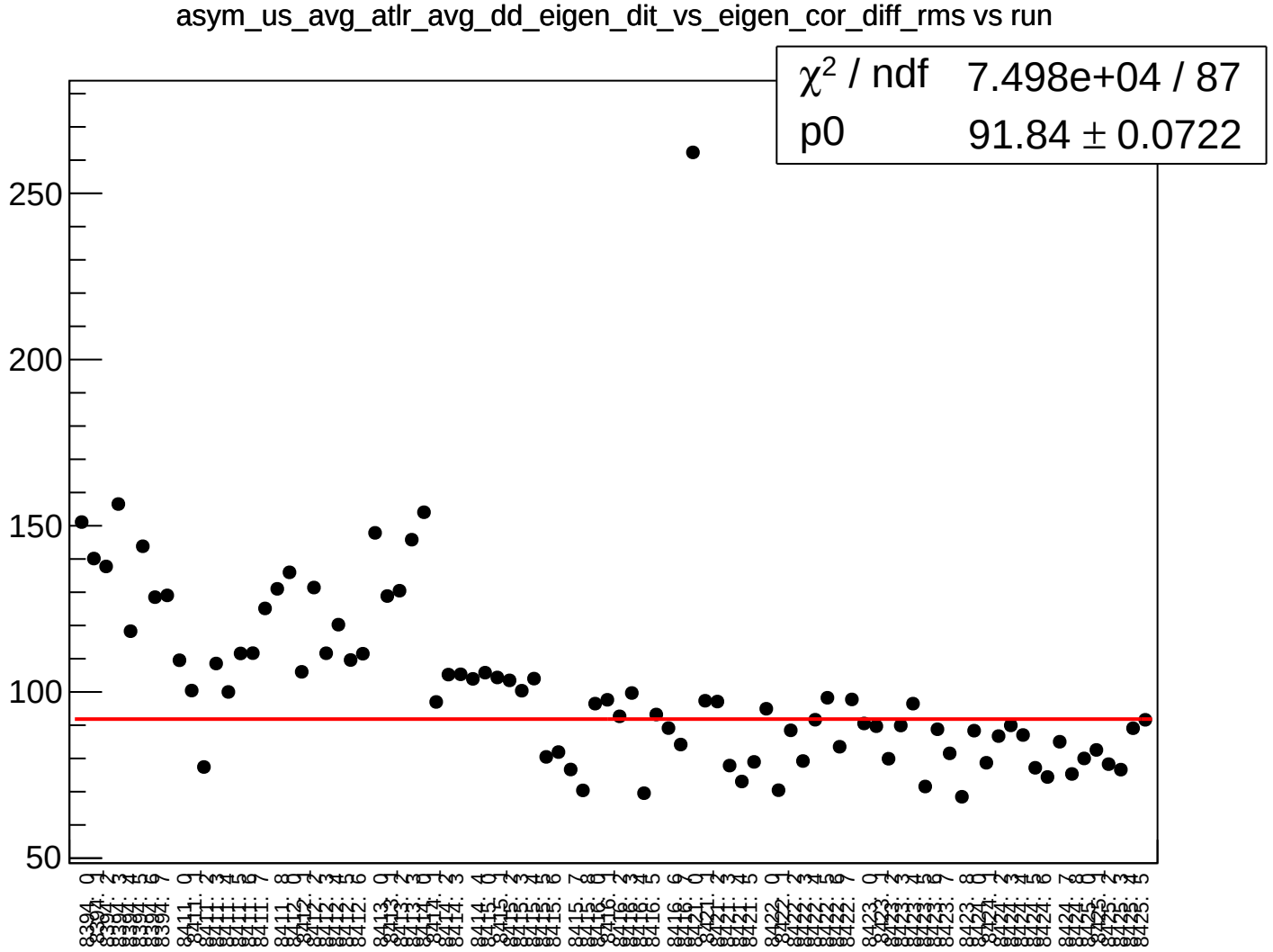

pull1D
Entries 88
Mean −0.1505
Std Dev 0.9619
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

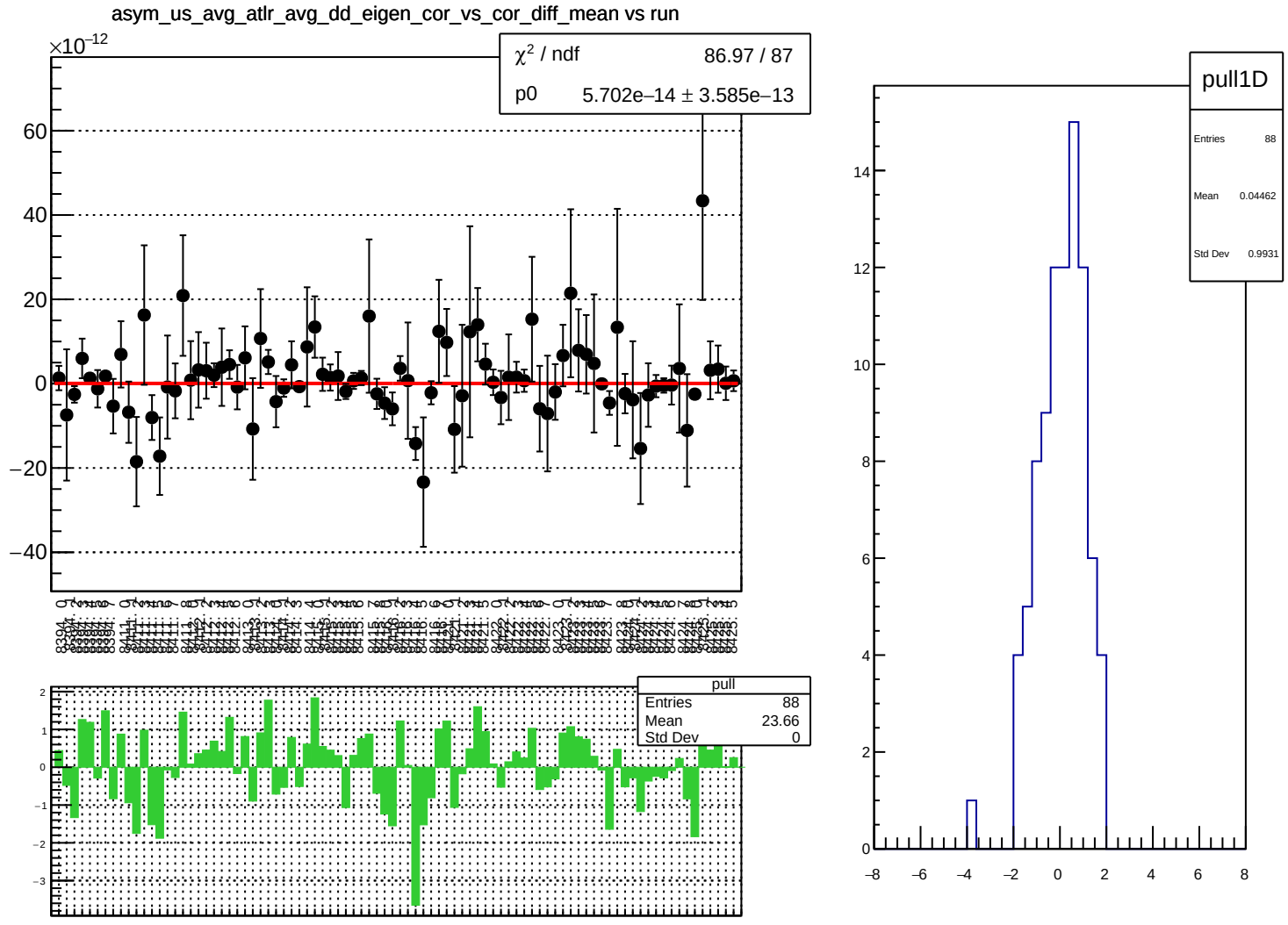

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.578e+05 / 87
p0 0.002496 ± 2.453e−06
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

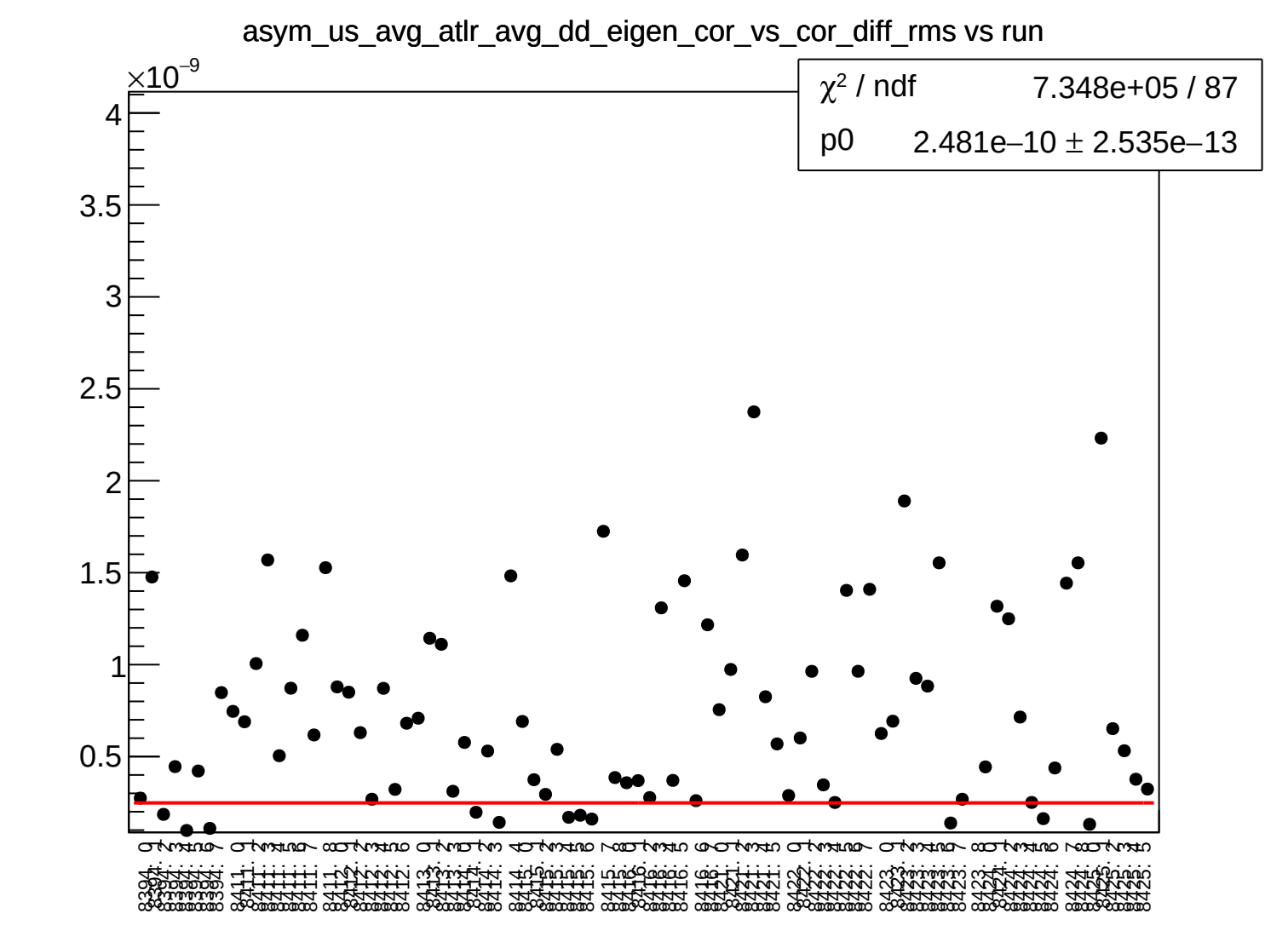

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.36 / 87
p0 −0.1385 ± 0.1021
pull
Entries 88
Mean −99.63
Std Dev 0
pull1D
Entries 88
Mean 0.0425
Std Dev 0.9955

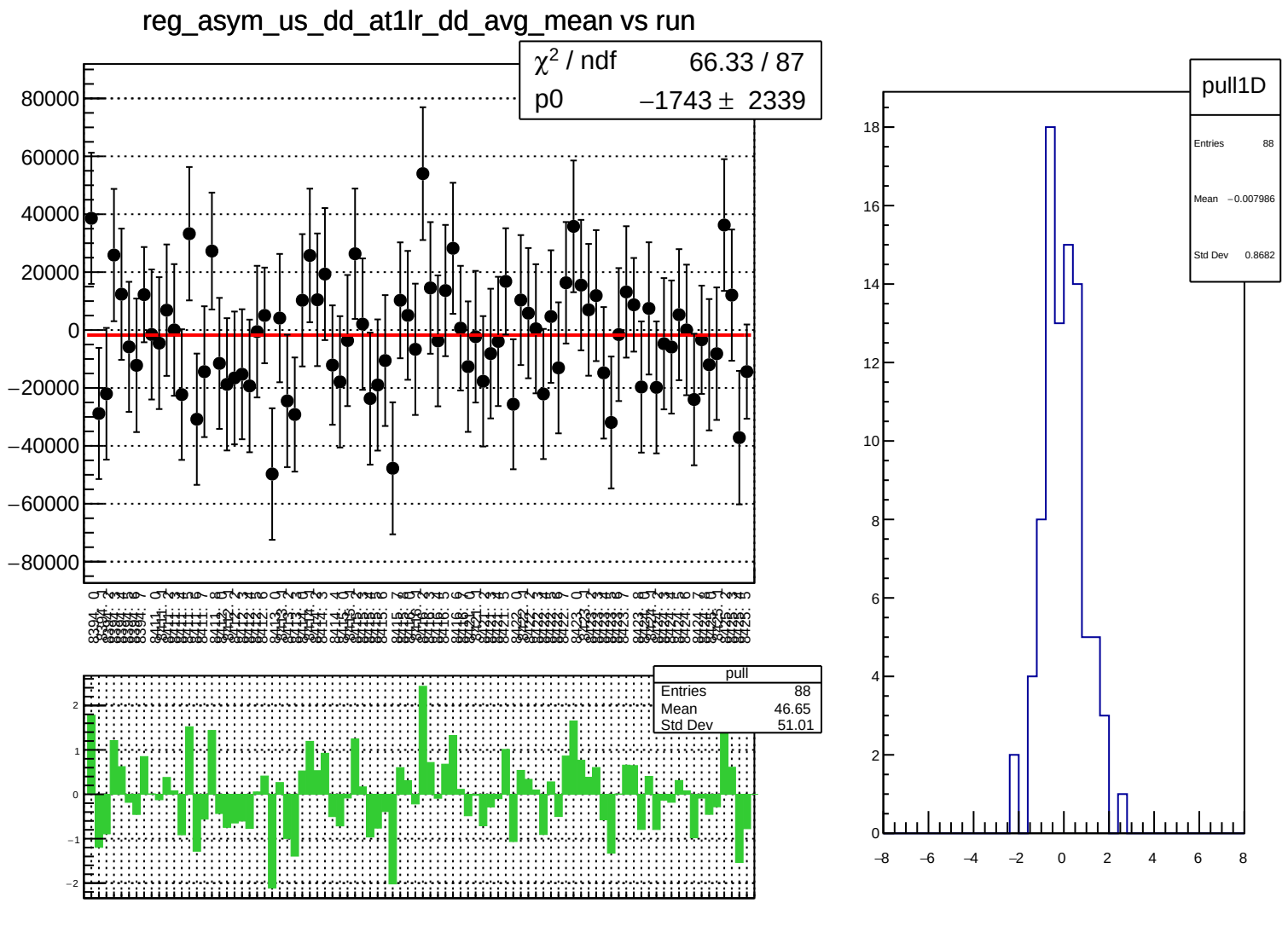

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.498e+04 / 87
p0 91.84 ± 0.0722
250
200
150
100
50

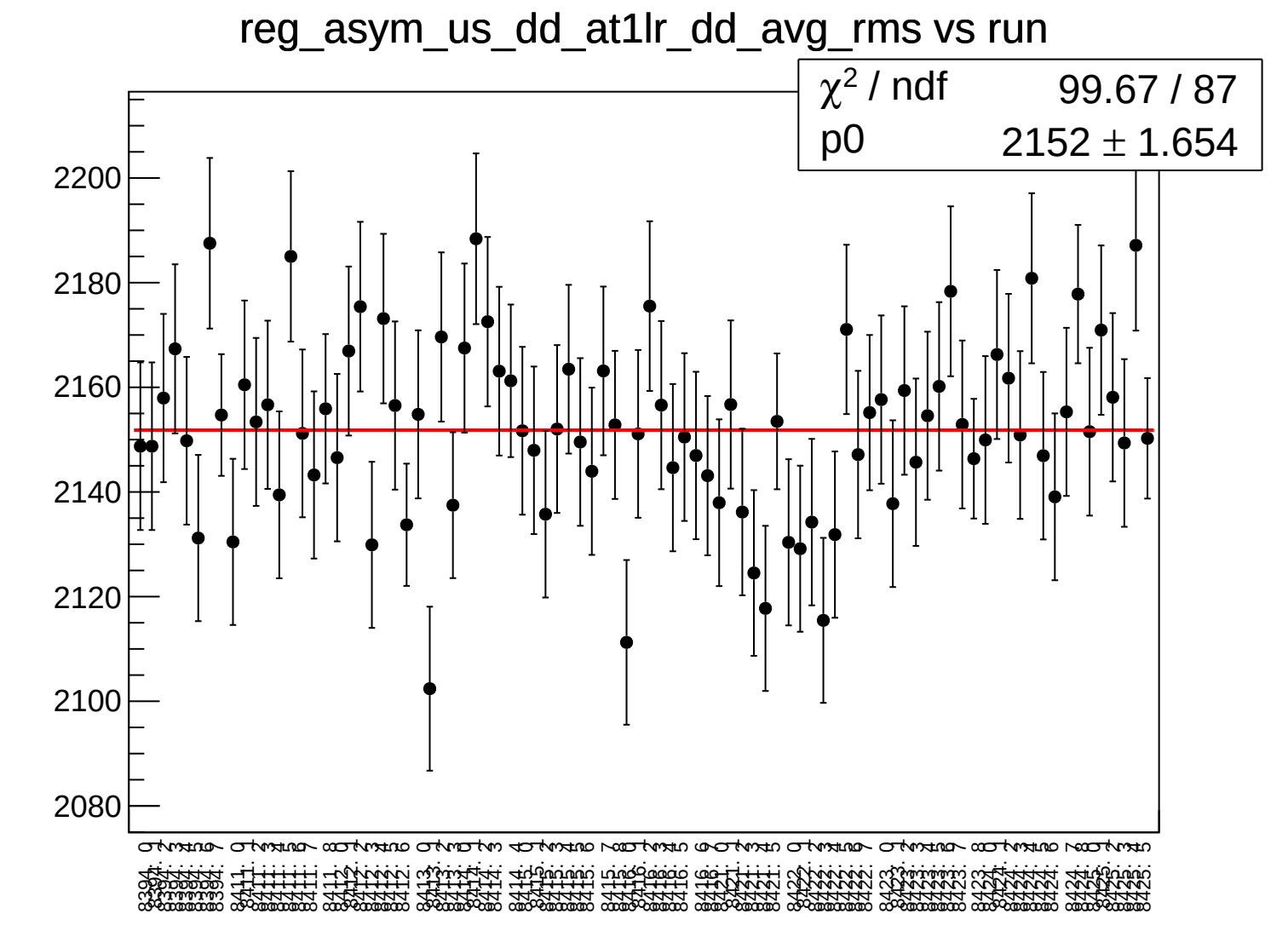

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.36 / 87
p0 −0.1385 ± 0.1021
pull
Entries 88
Mean −99.63
Std Dev 0
pull1D
Entries 88
Mean 0.0425
Std Dev 0.9955

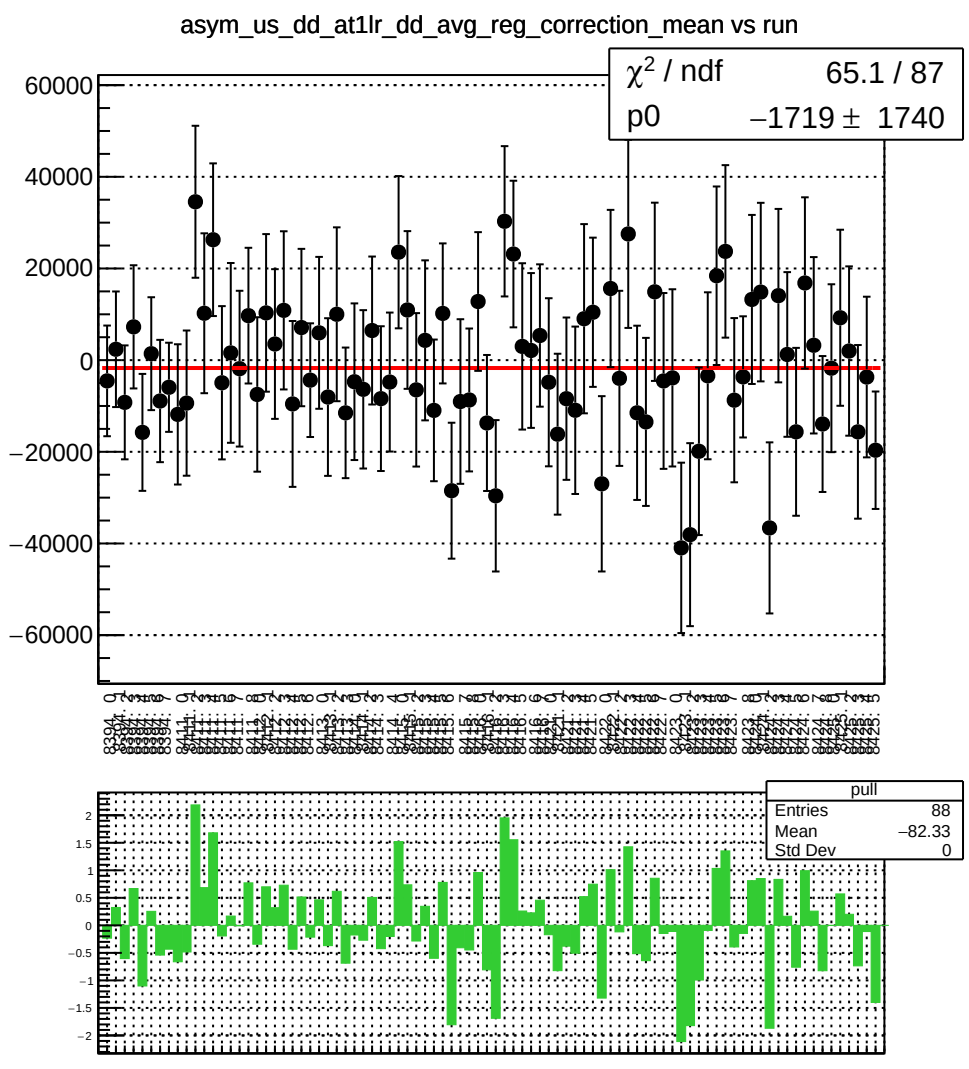

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.498e+04 / 87
p0 91.84 ± 0.0722
250
200
150
100
50

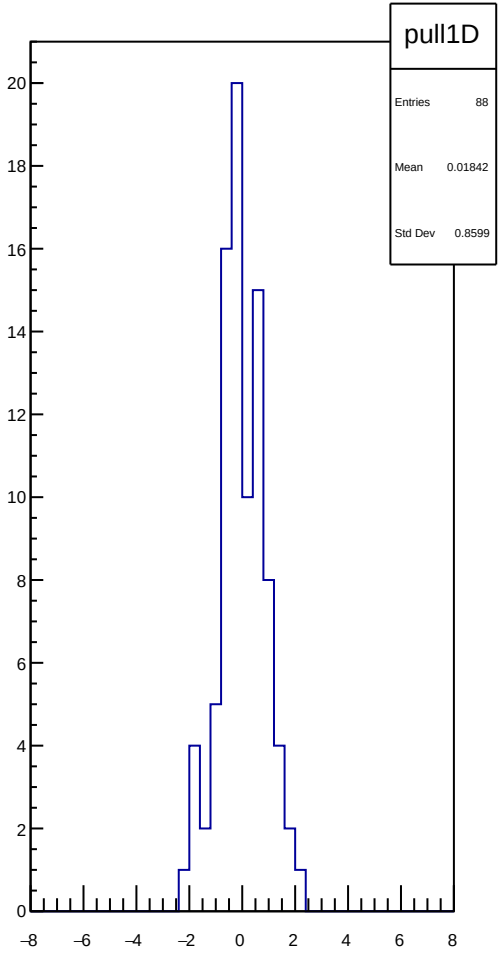

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.97 / 87
p0 5.702e−14 ± 3.585e−13
60
40
20
0
−20
−40
pull
Entries 88
Mean 23.66
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.04462
Std Dev 0.9931
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

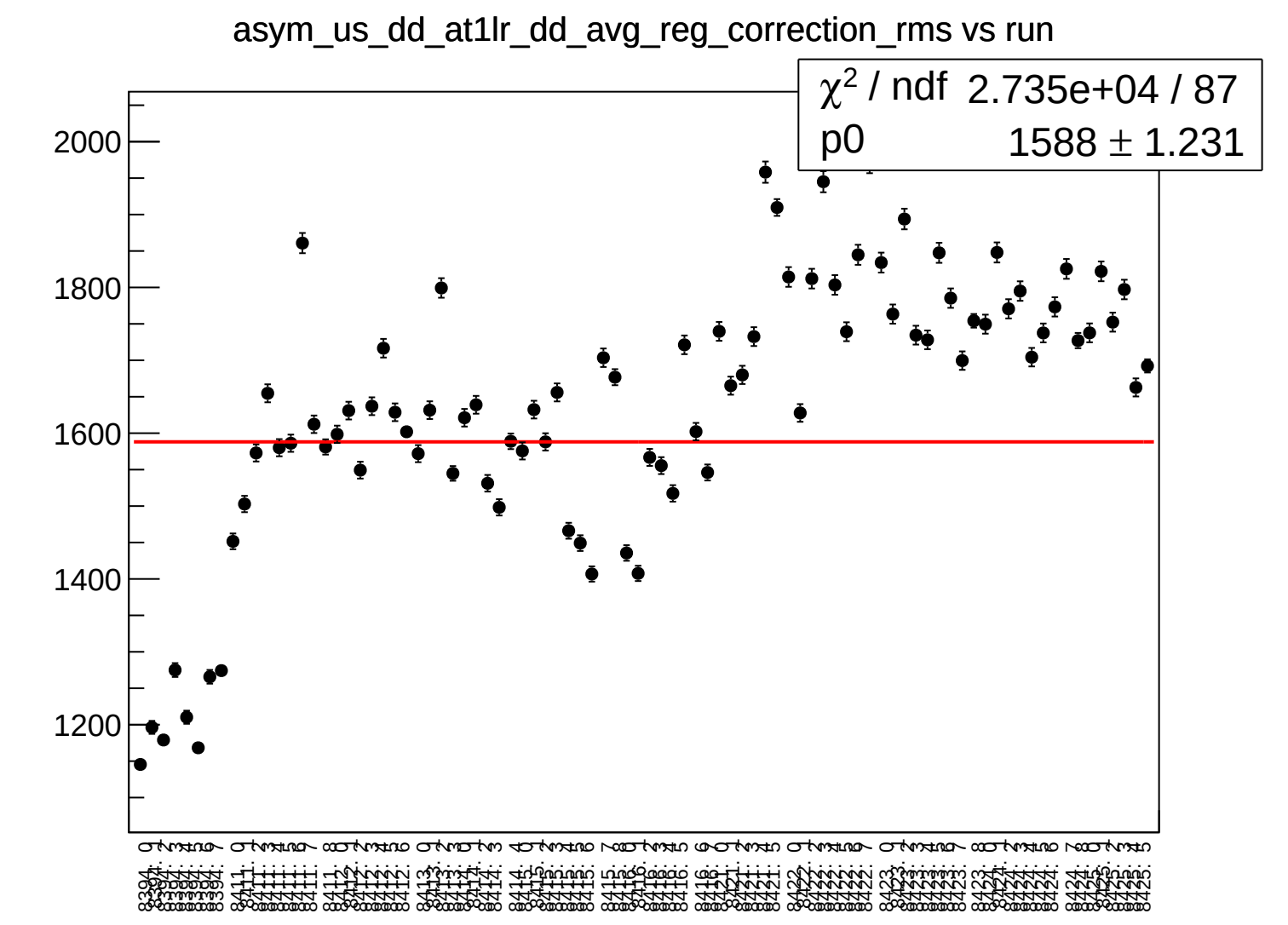

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.348e+05 / 87
p0 2.481e−10 ± 2.535e−13
4
3.5
3
2.5
2
1.5
1
0.5

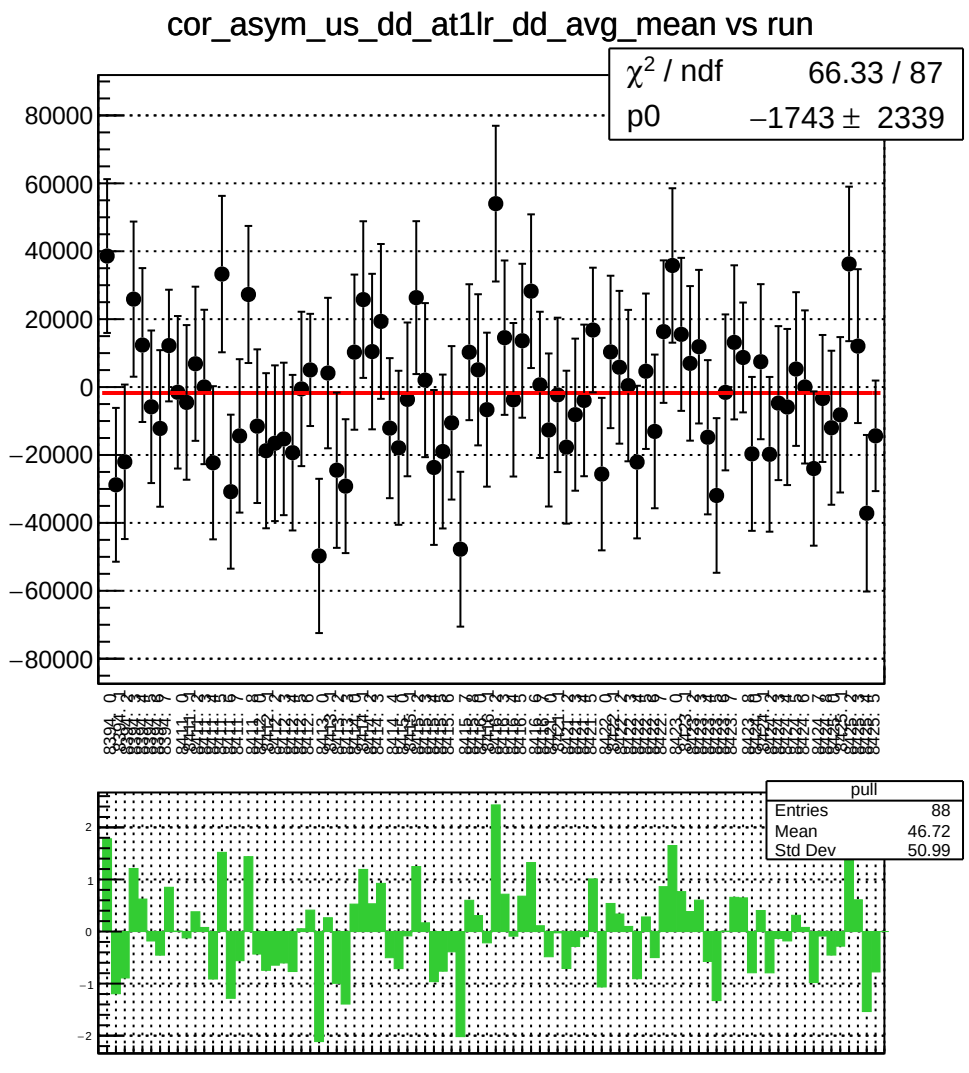

reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 66.33 / 87
p0 −1743 ± 2339
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 46.65
Std Dev 51.01
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.007986
Std Dev 0.8682
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

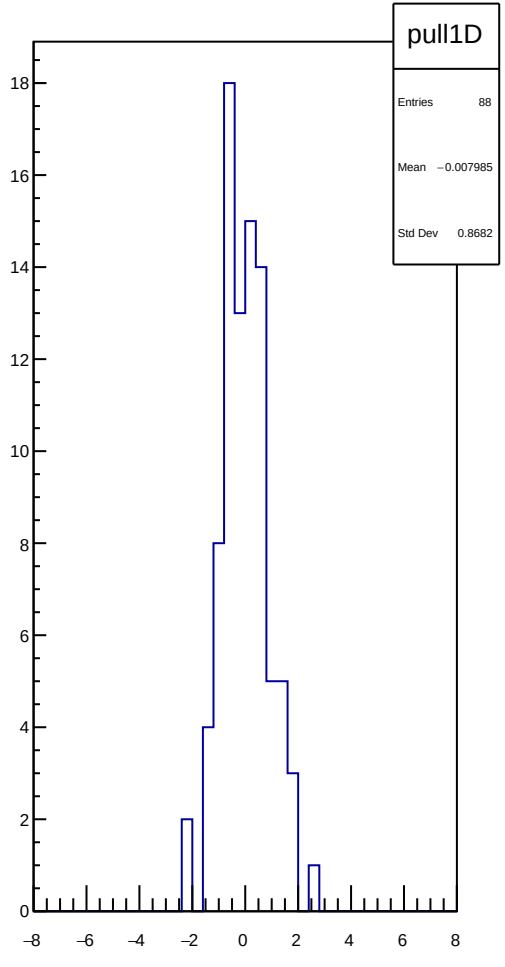

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 99.67 / 87
p0 2152 ± 1.654
2200
2180
2160
2140
2120
2100
2080

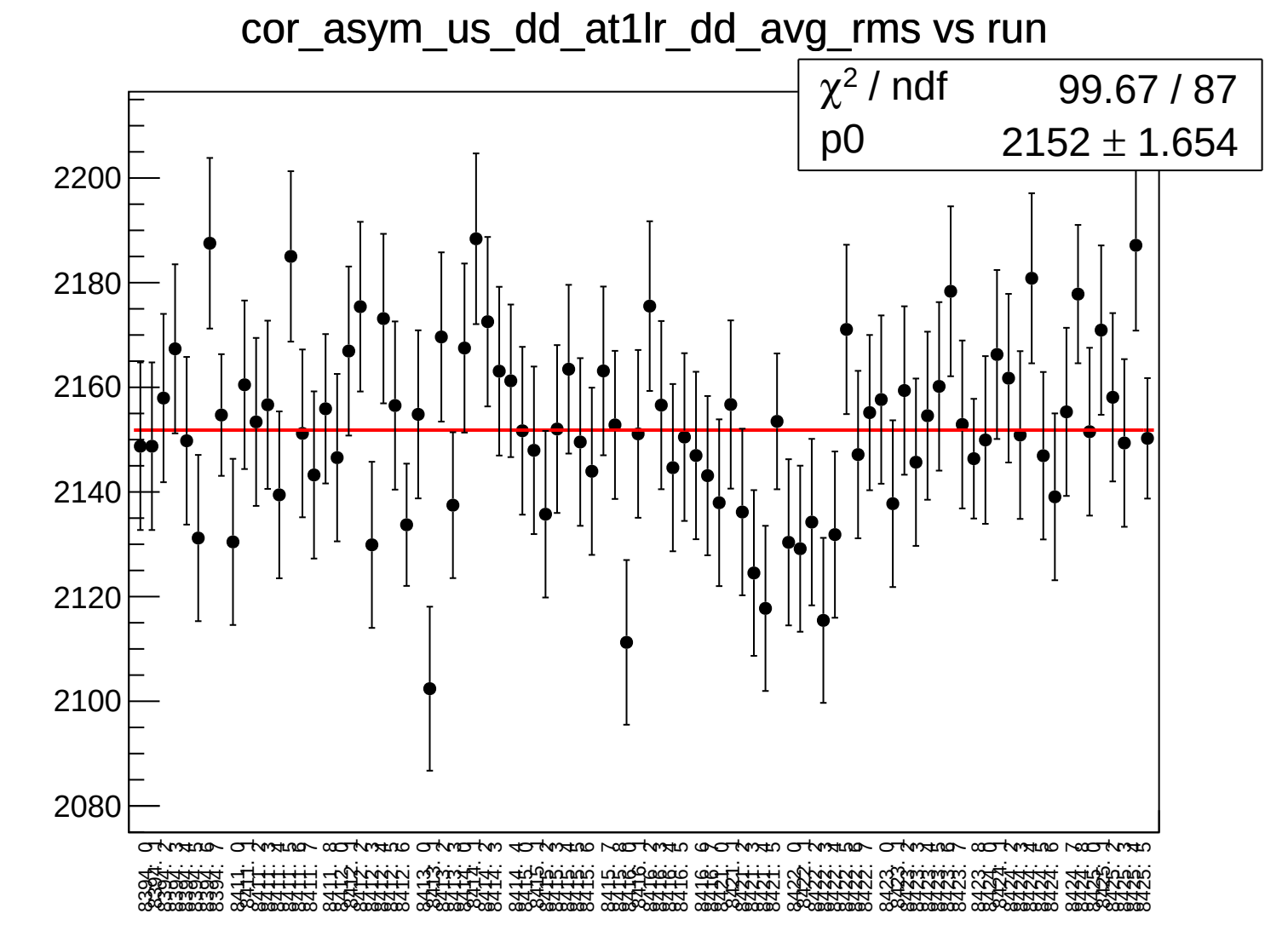

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 65.1 / 87
p0 −1719 ± 1740
pull
Entries 88
Mean −82.33
Std Dev 0

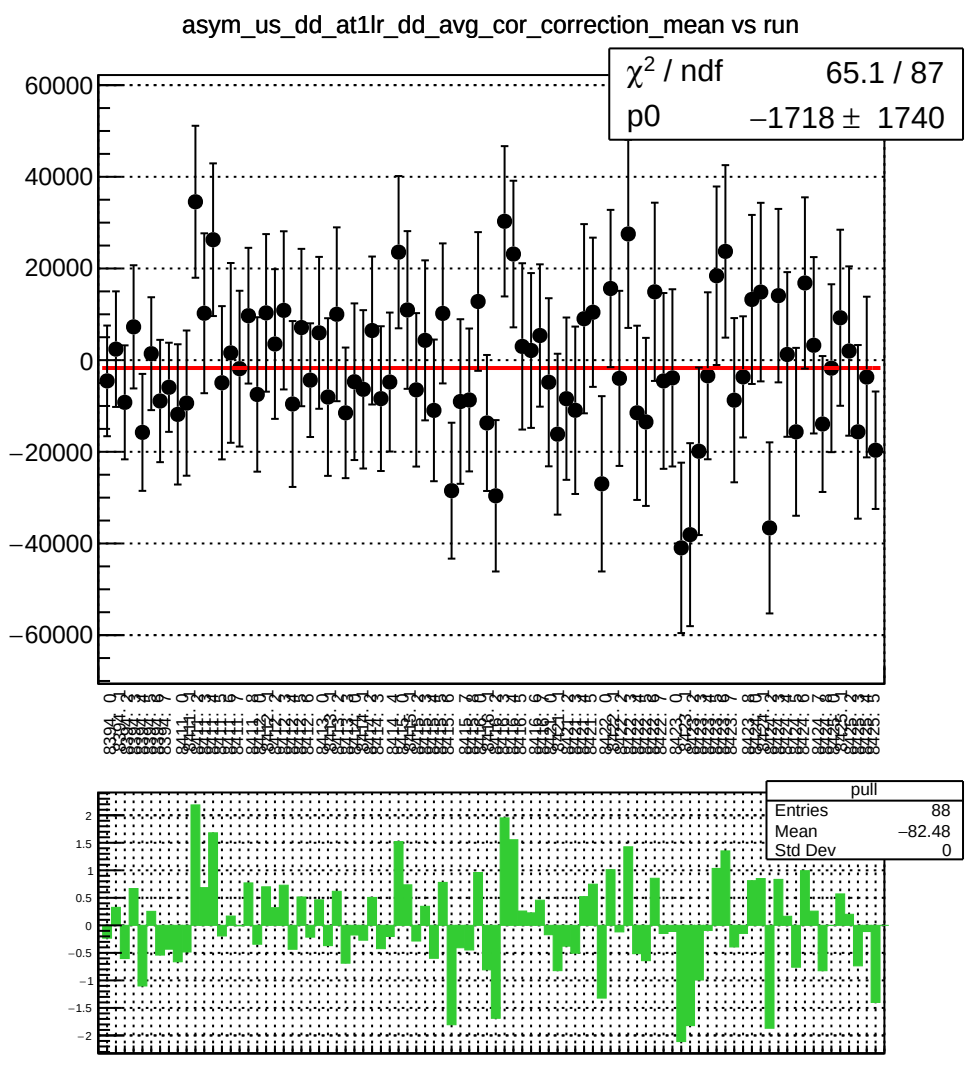

pull1D
Entries 88
Mean 0.01842
Std Dev 0.8599

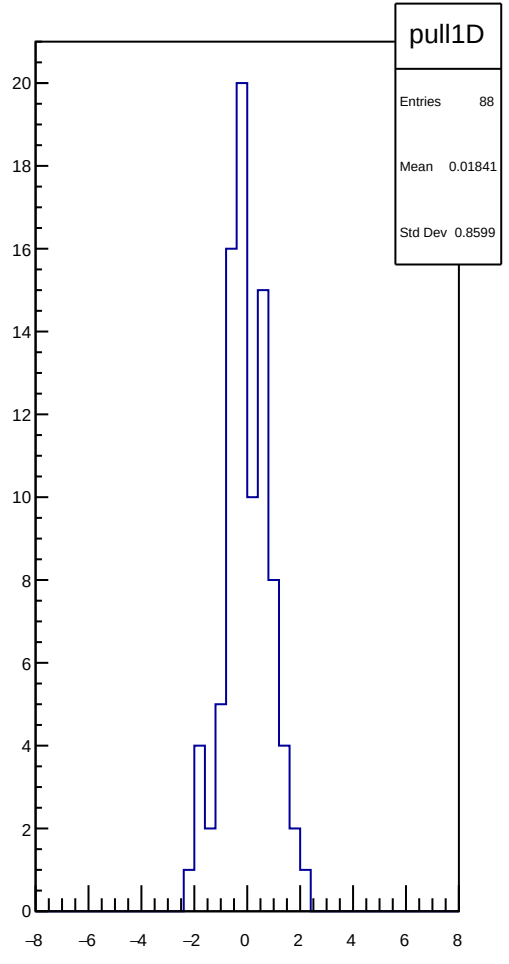

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 2.735e+04 / 87
p0 1588 ± 1.231
2000
1800
1600
1400
1200

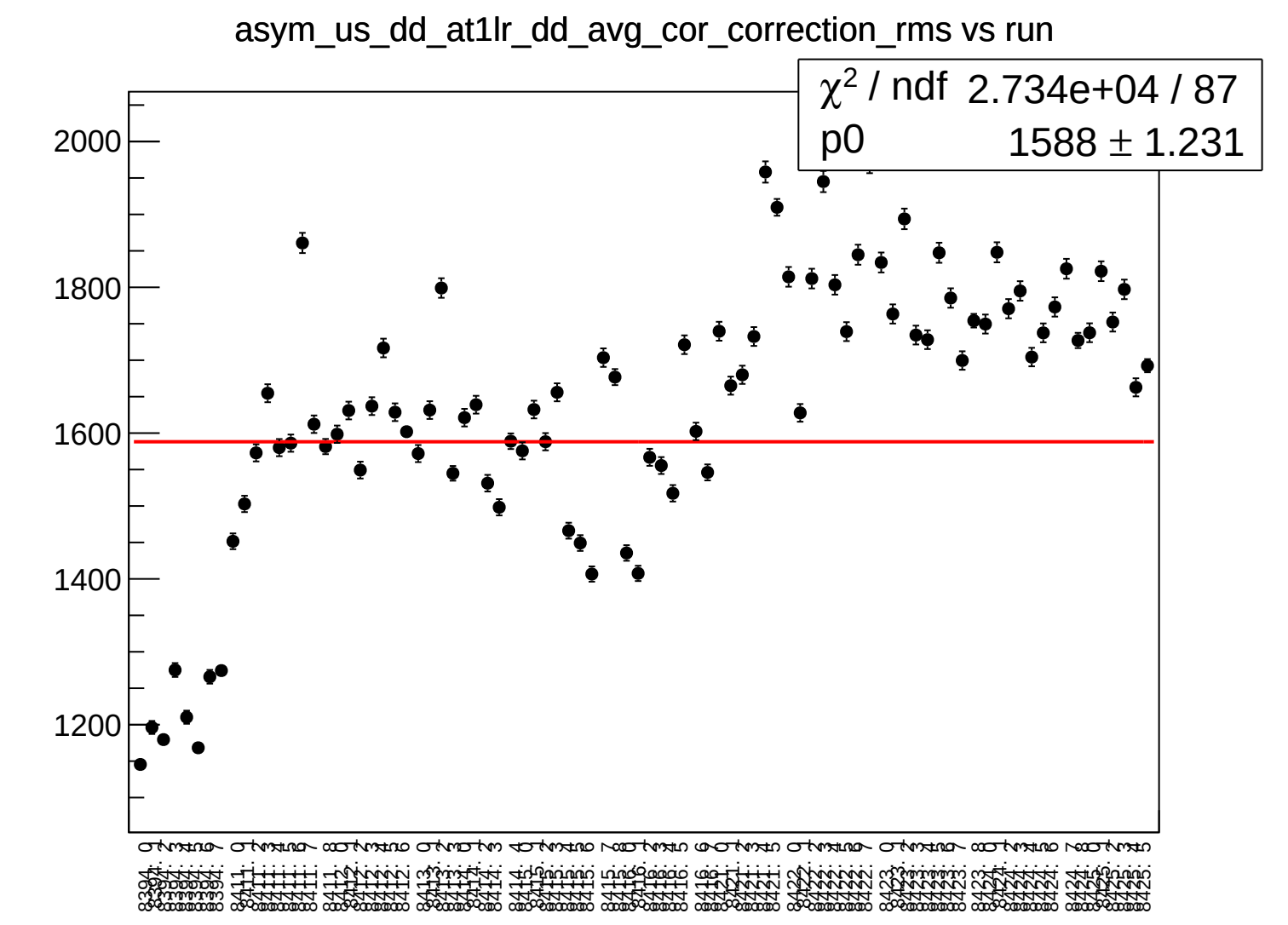

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 66.33 / 87
p0 −1743 ± 2339
pull
Entries 88
Mean 46.72
Std Dev 50.99

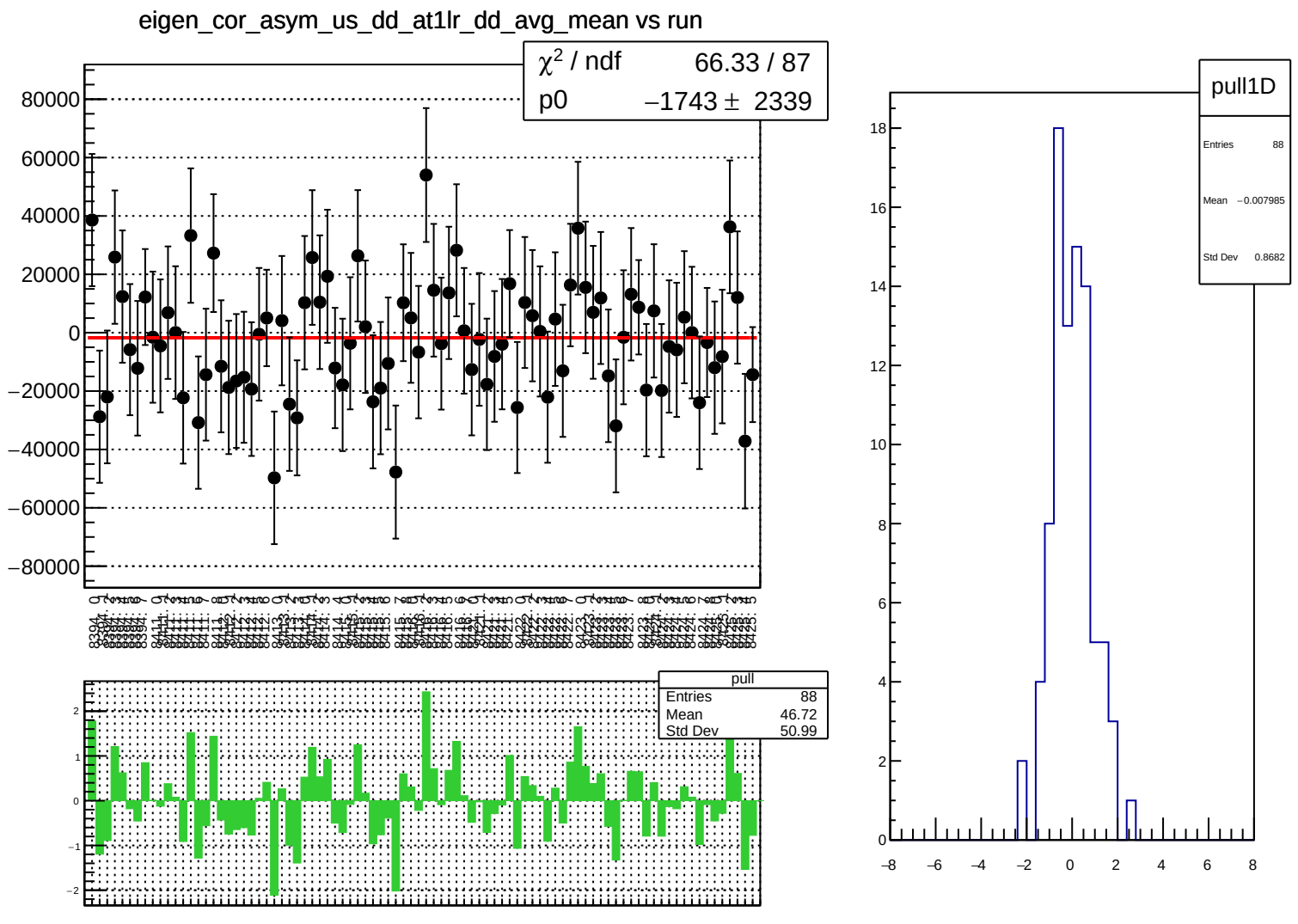

pull1D
Entries 88
Mean −0.007985
Std Dev 0.8682

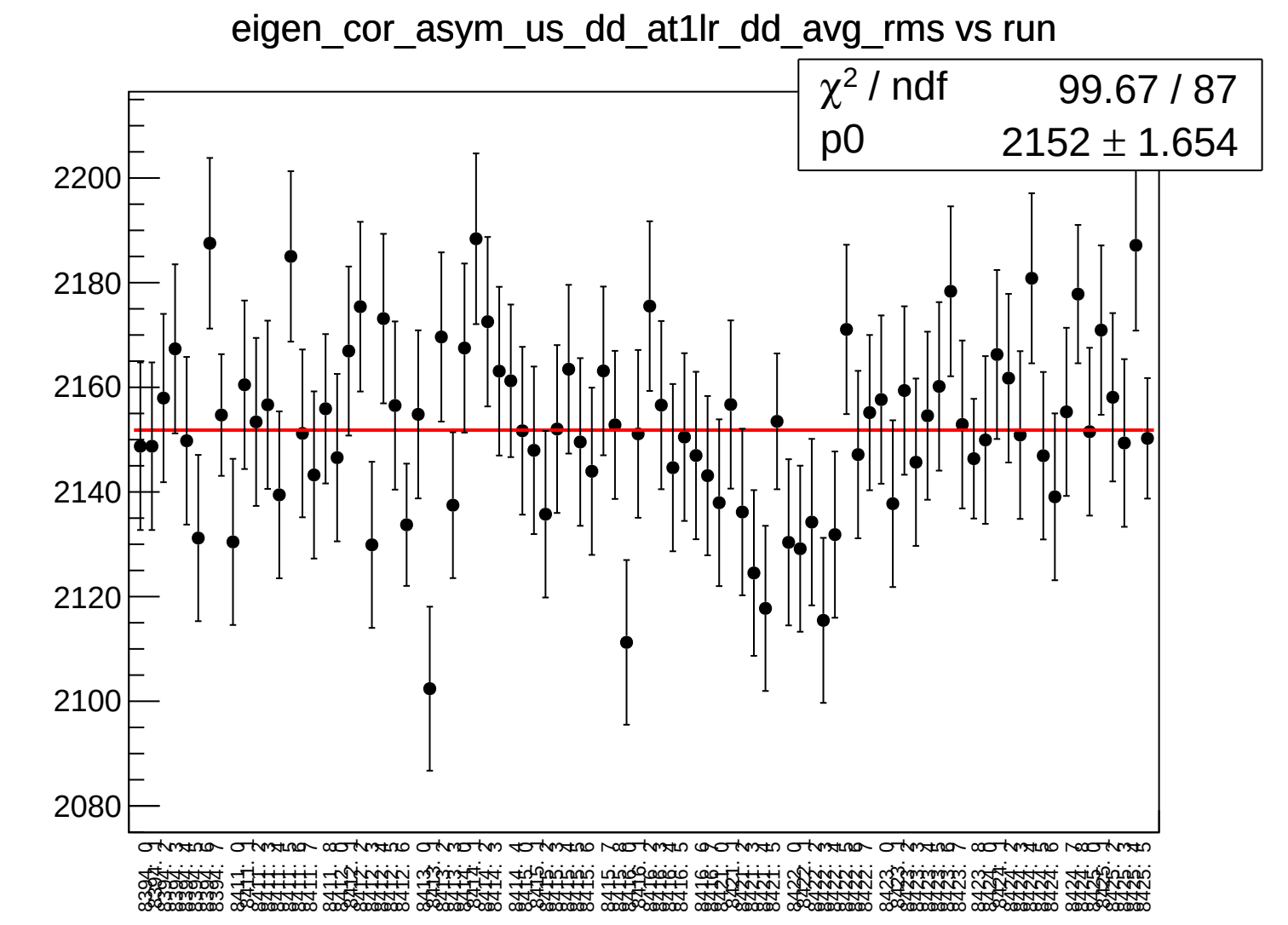

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 99.67 / 87
p0 2152 ± 1.654
2200
2180
2160
2140
2120
2100
2080

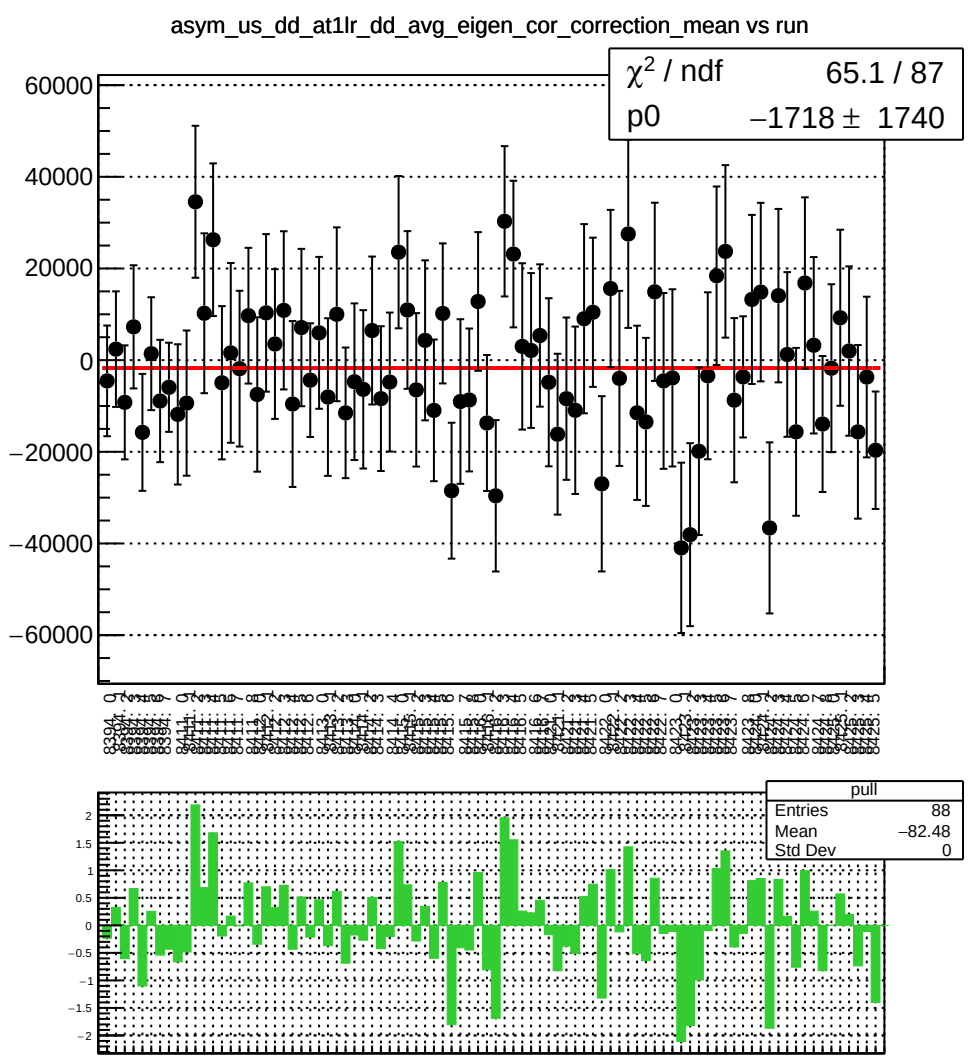

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 65.1 / 87
p0 −1718 ± 1740
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −82.48
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

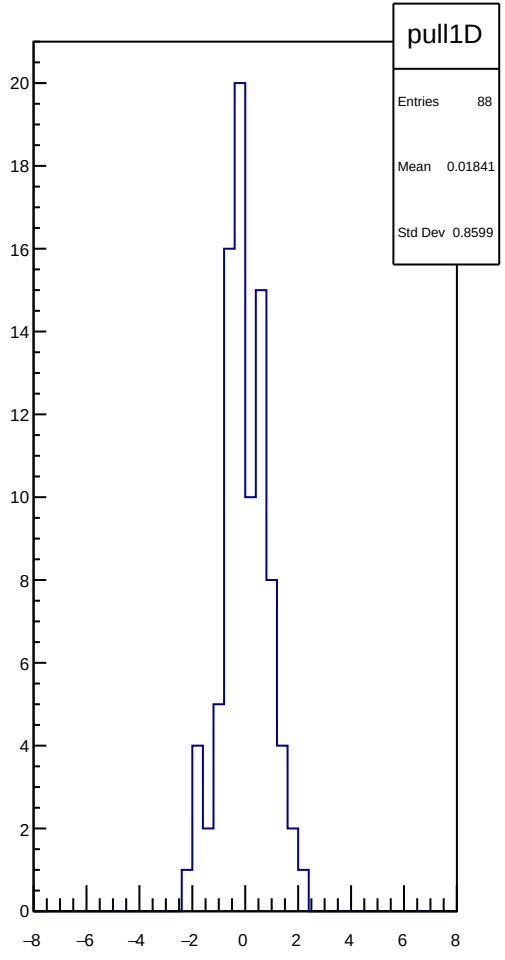

pull1D
Entries 88
Mean 0.01841
Std Dev 0.8599
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

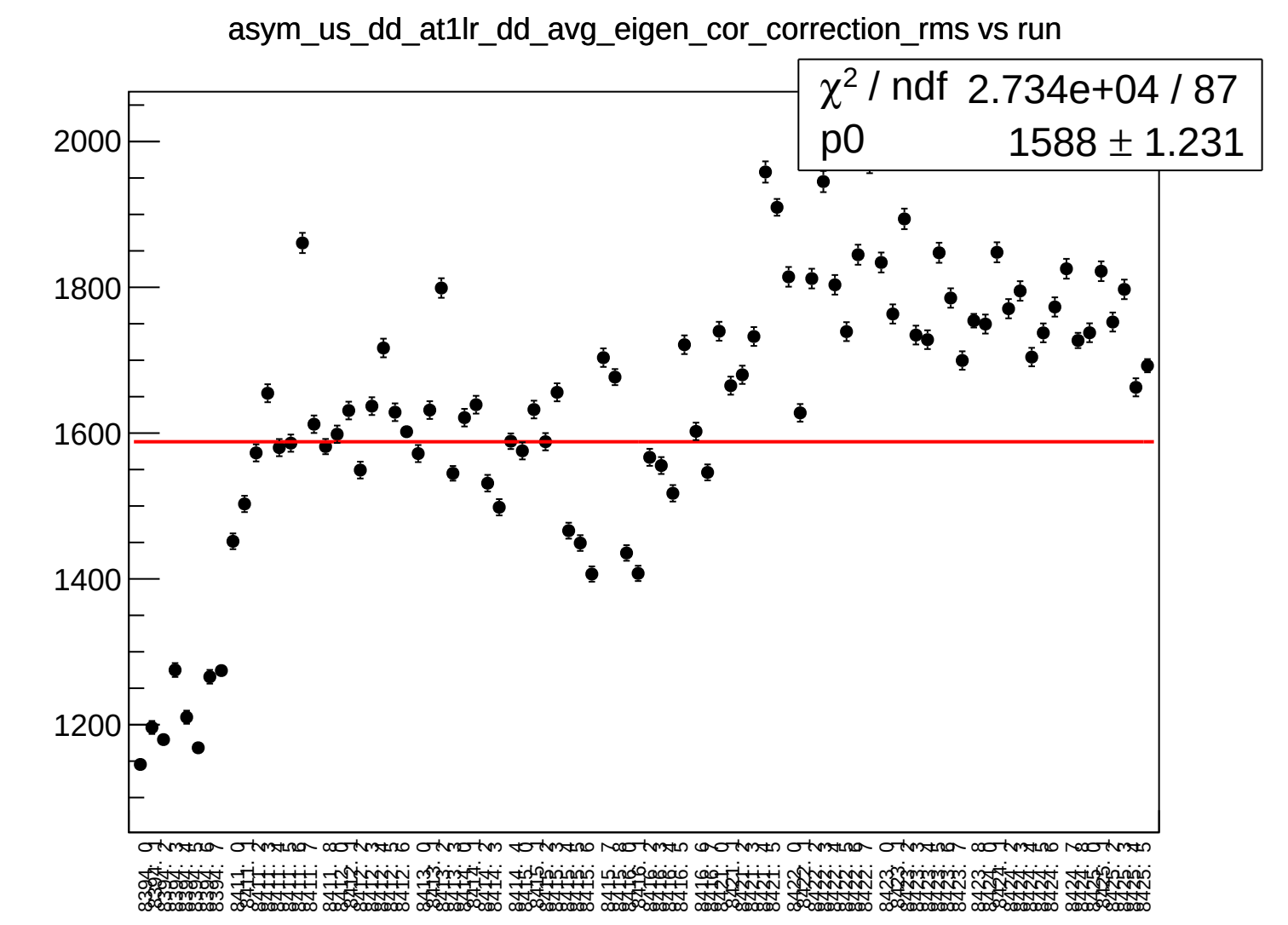

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 2.734e+04 / 87
p0 1588 ± 1.231
2000
1800
1600
1400
1200

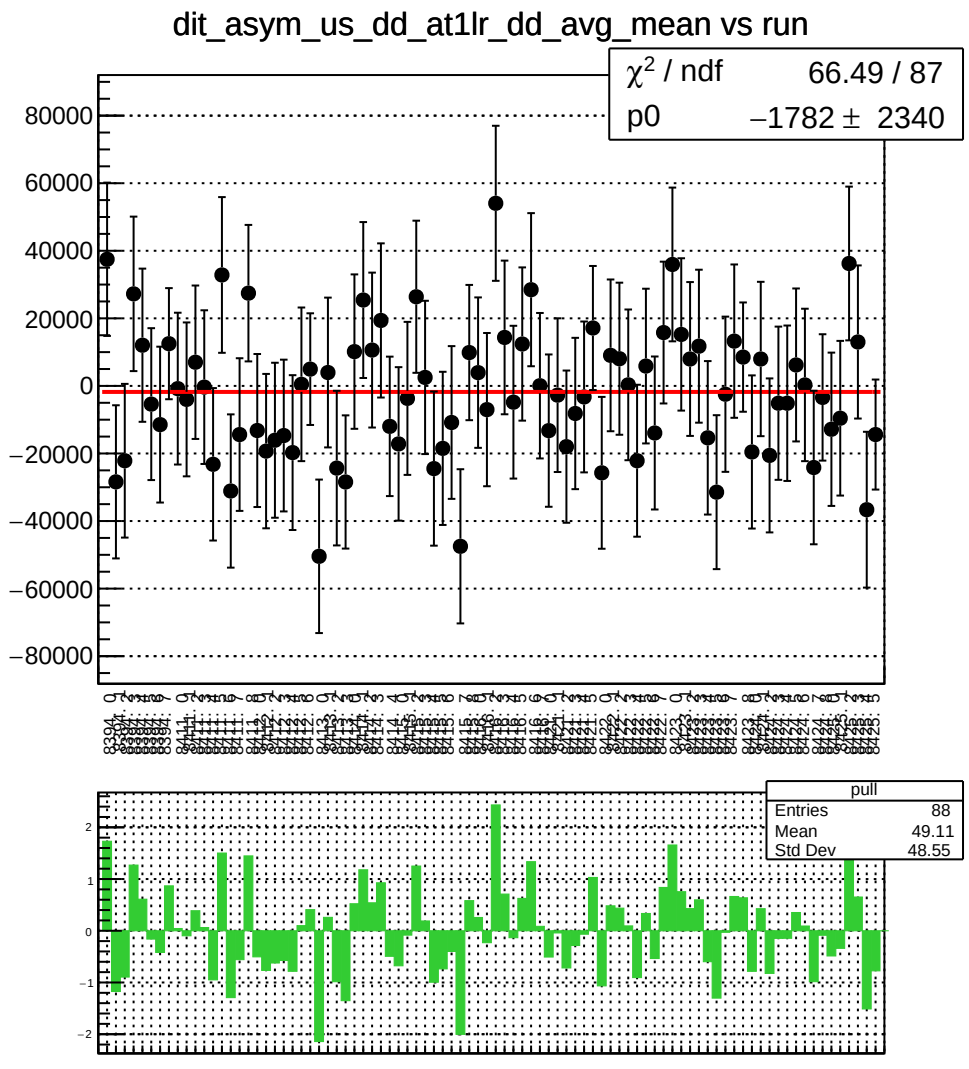

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 66.33 / 87
p0 −1743 ± 2339
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 46.72
Std Dev 50.99
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.007985
Std Dev 0.8682
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

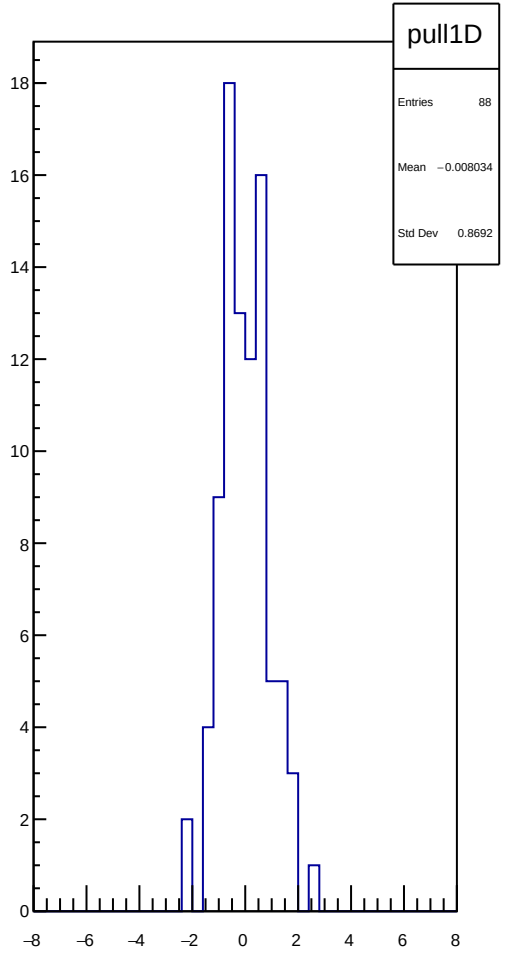

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 99.67 / 87
p0 2152 ± 1.654
2200
2180
2160
2140
2120
2100
2080

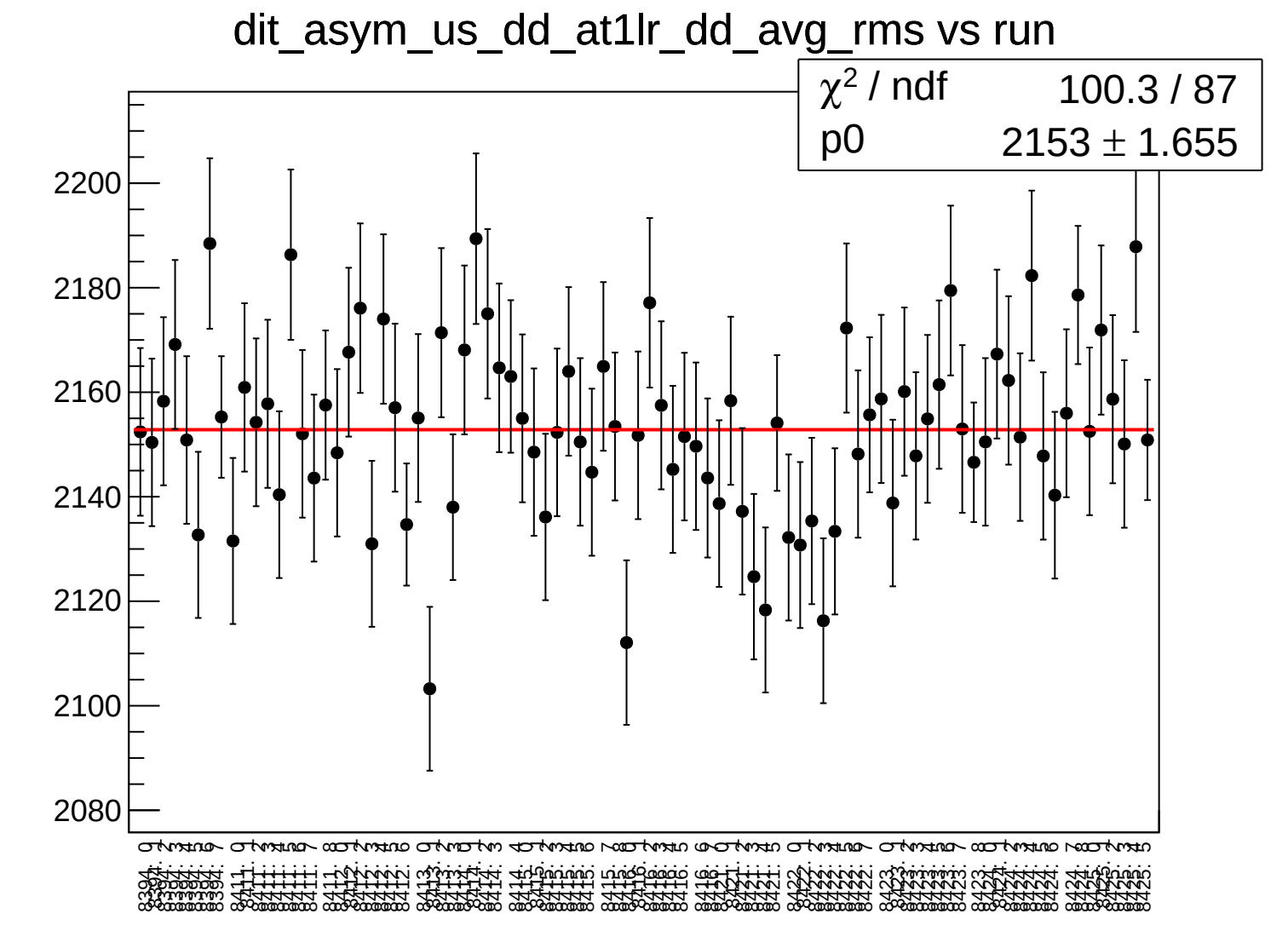

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 65.1 / 87
p0 −1718 ± 1740
pull
Entries 88
Mean −82.48
Std Dev 0

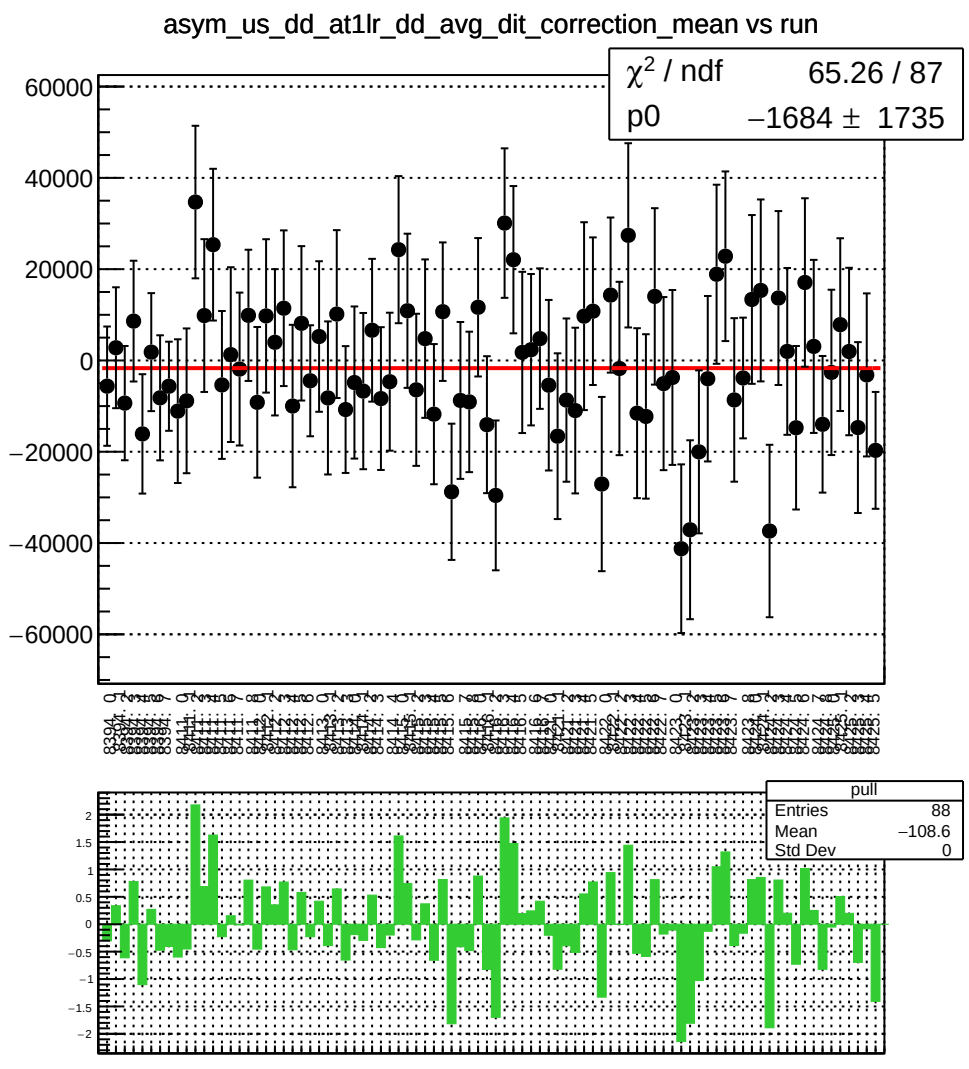

pull1D
Entries 88
Mean 0.01841
Std Dev 0.8599

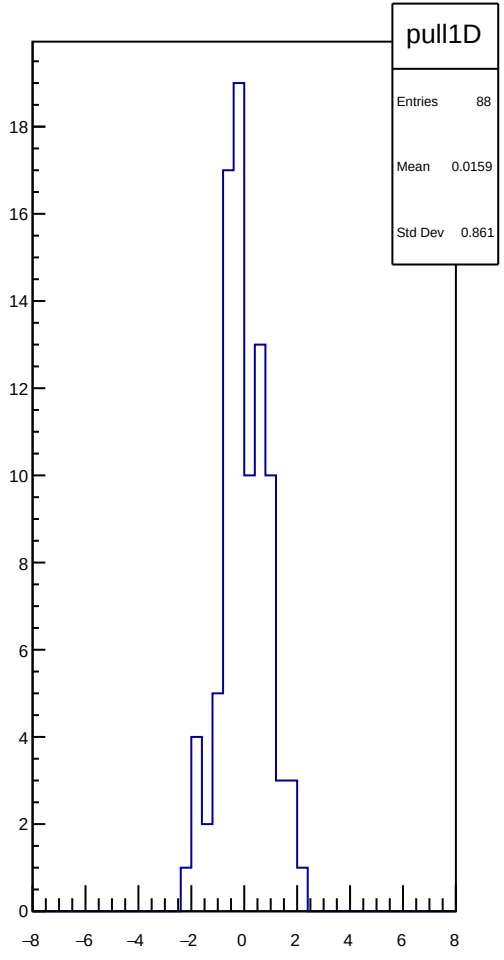

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.734e+04 / 87
p0 1588 ± 1.231
2000
1800
1600
1400
1200

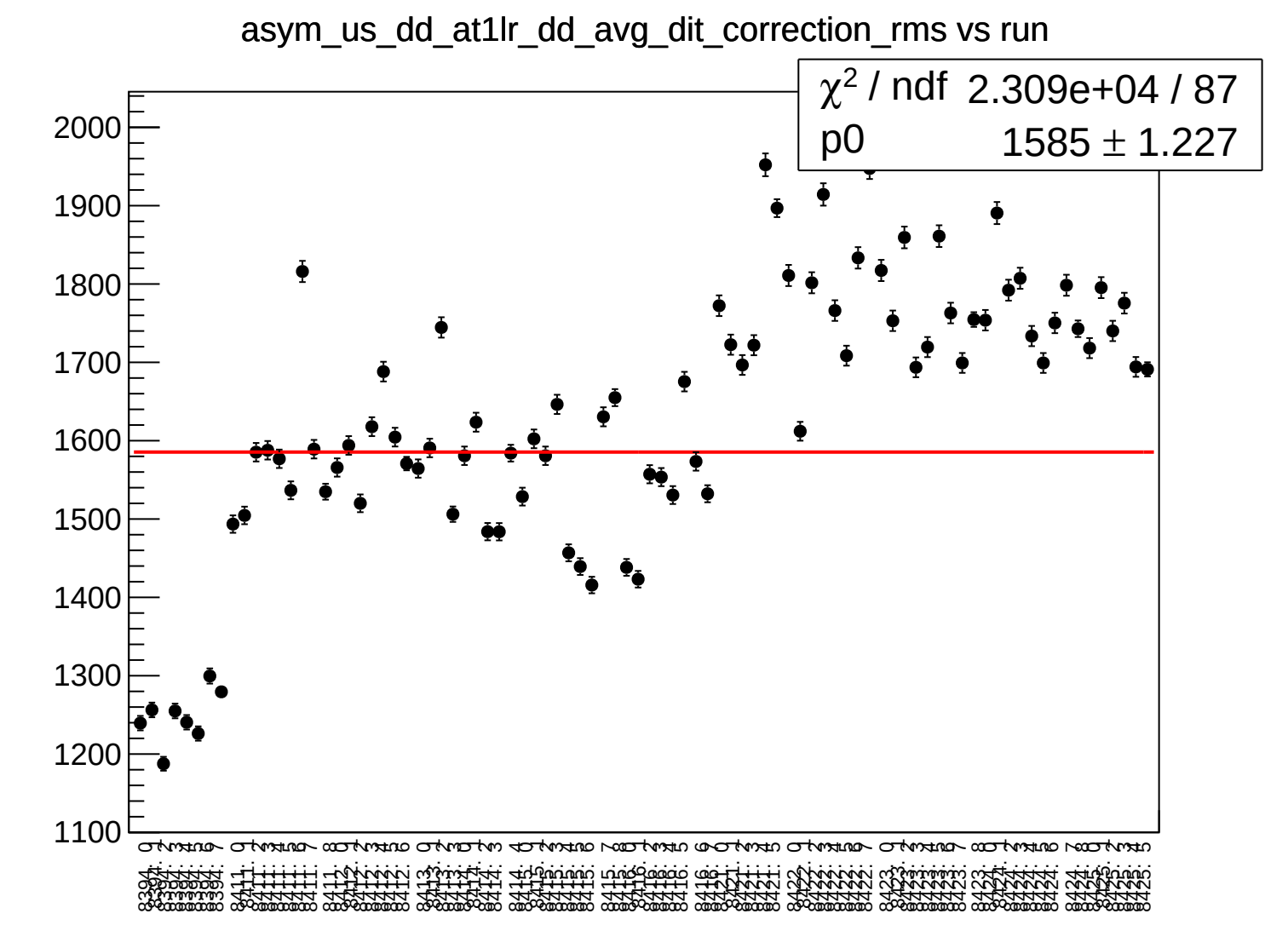

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 66.49 / 87
p0 −1782 ± 2340
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 49.11
Std Dev 48.55
2
1
0
−1
−2

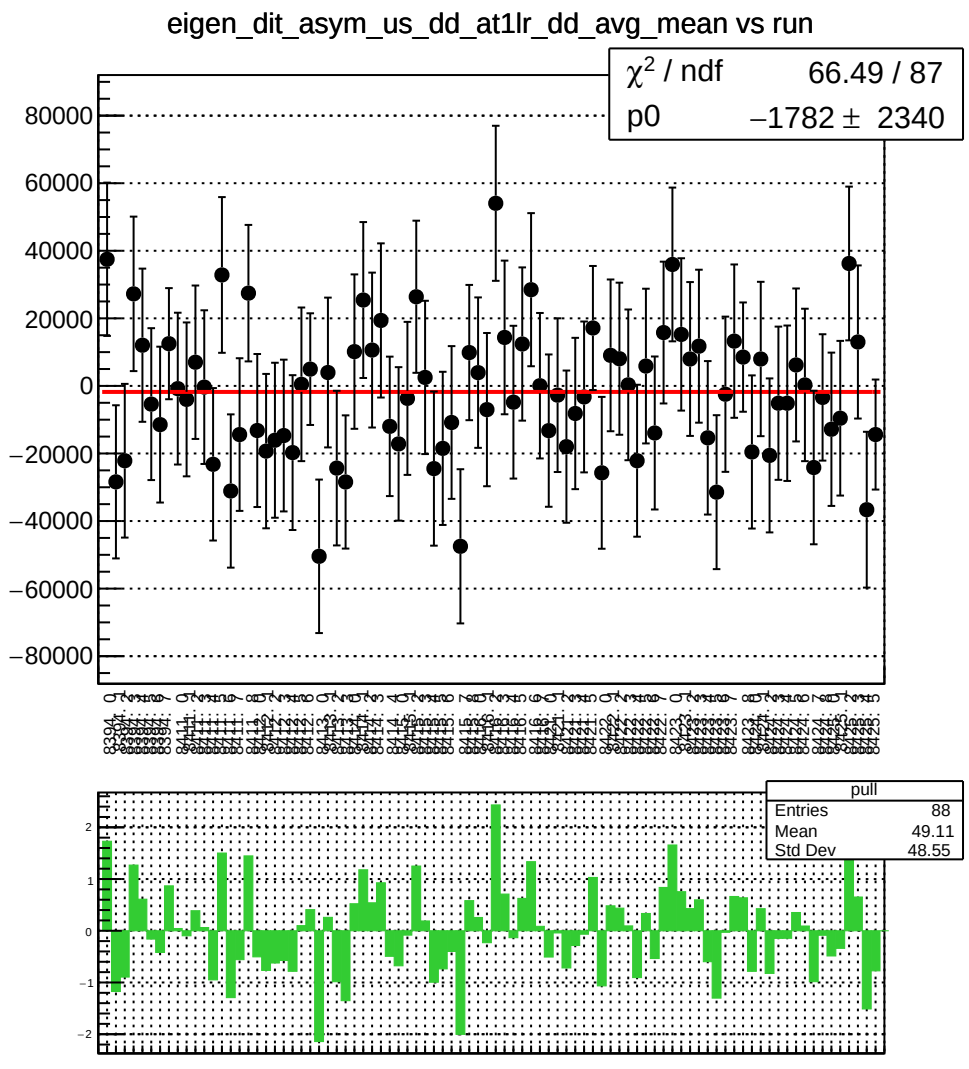

pull1D
Entries 88
Mean −0.008034
Std Dev 0.8692
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

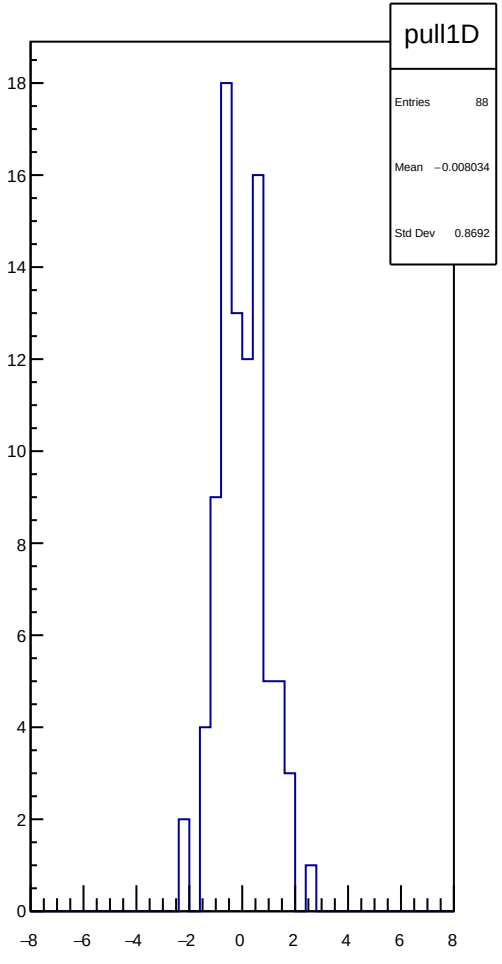

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 100.3 / 87
p0 2153 ± 1.655
2200
2180
2160
2140
2120
2100
2080

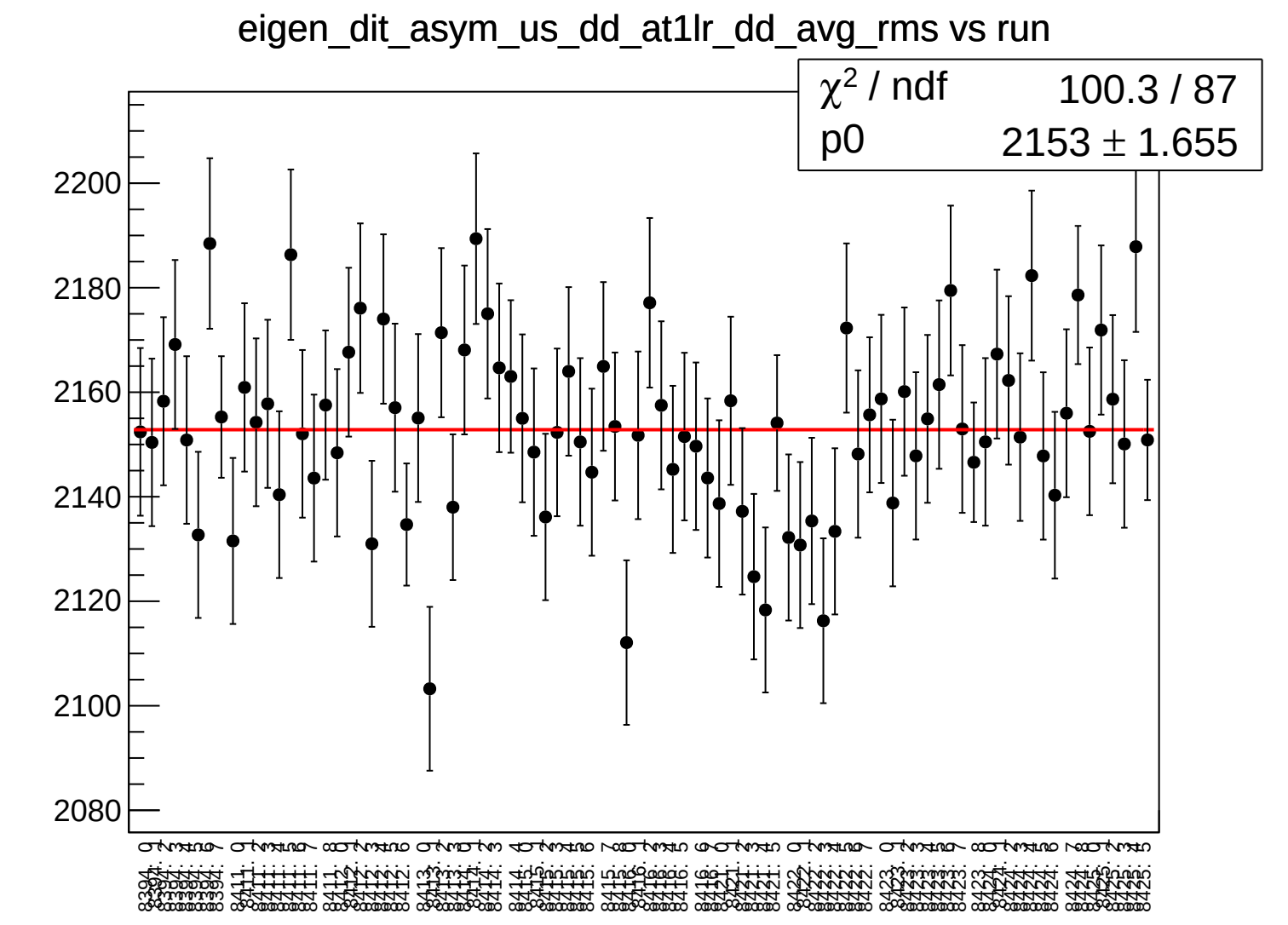

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 65.26 / 87
p0 −1684 ± 1735
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −108.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

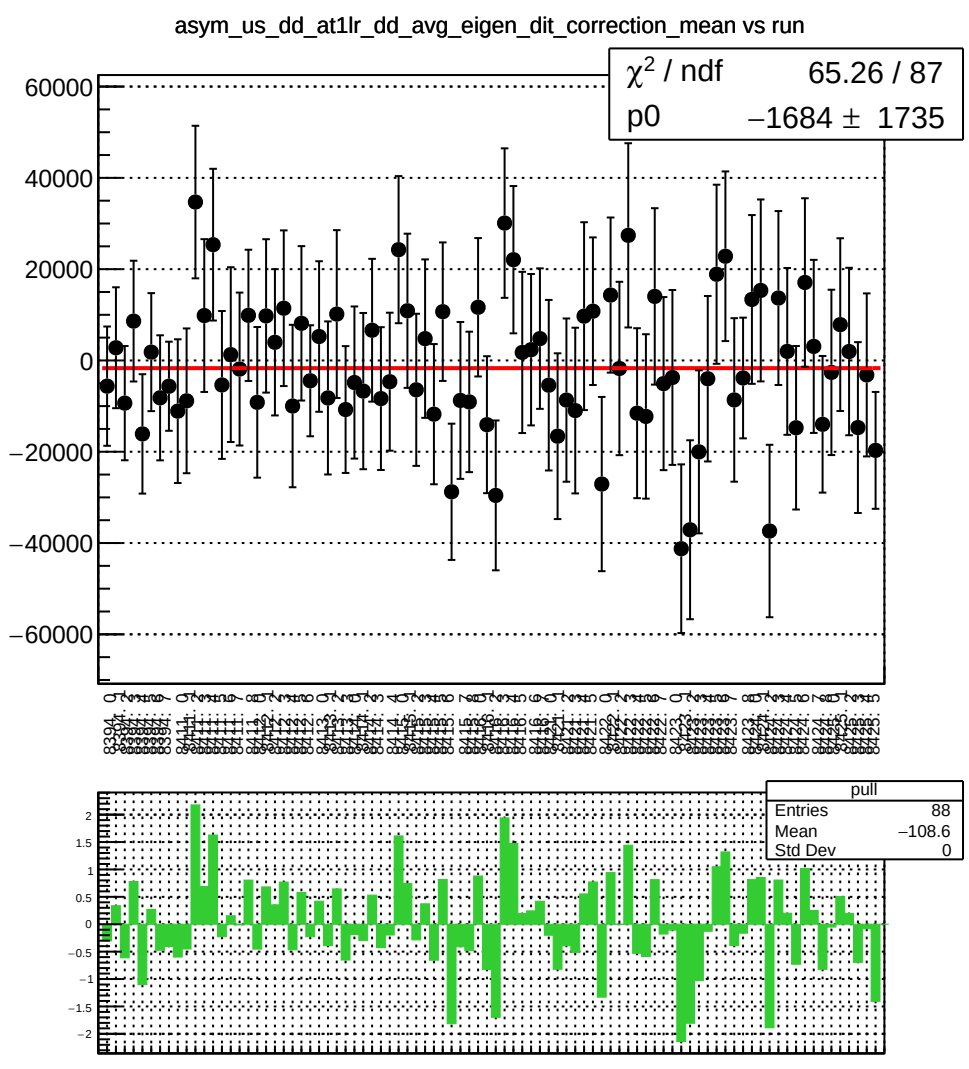

pull1D
Entries 88
Mean 0.0159
Std Dev 0.861
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

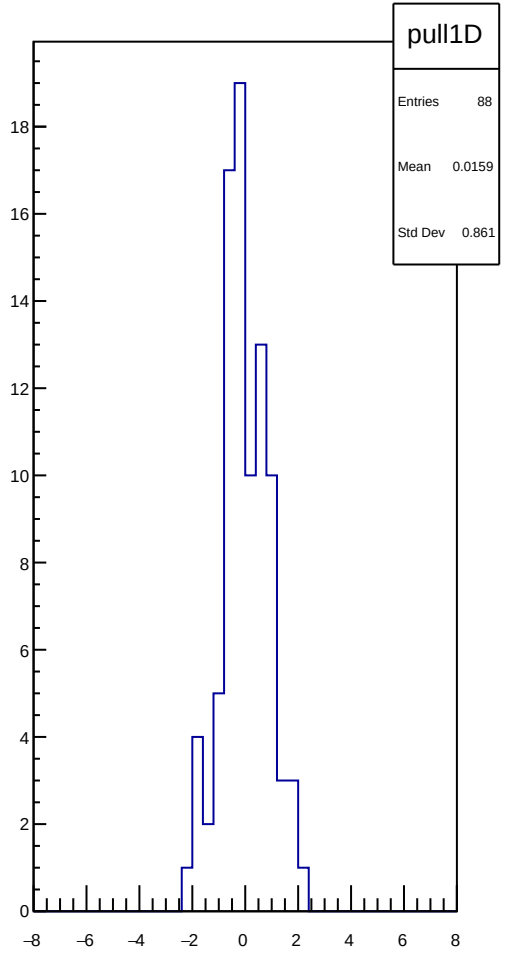

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 2.309e+04 / 87
p0 1585 ± 1.227
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100

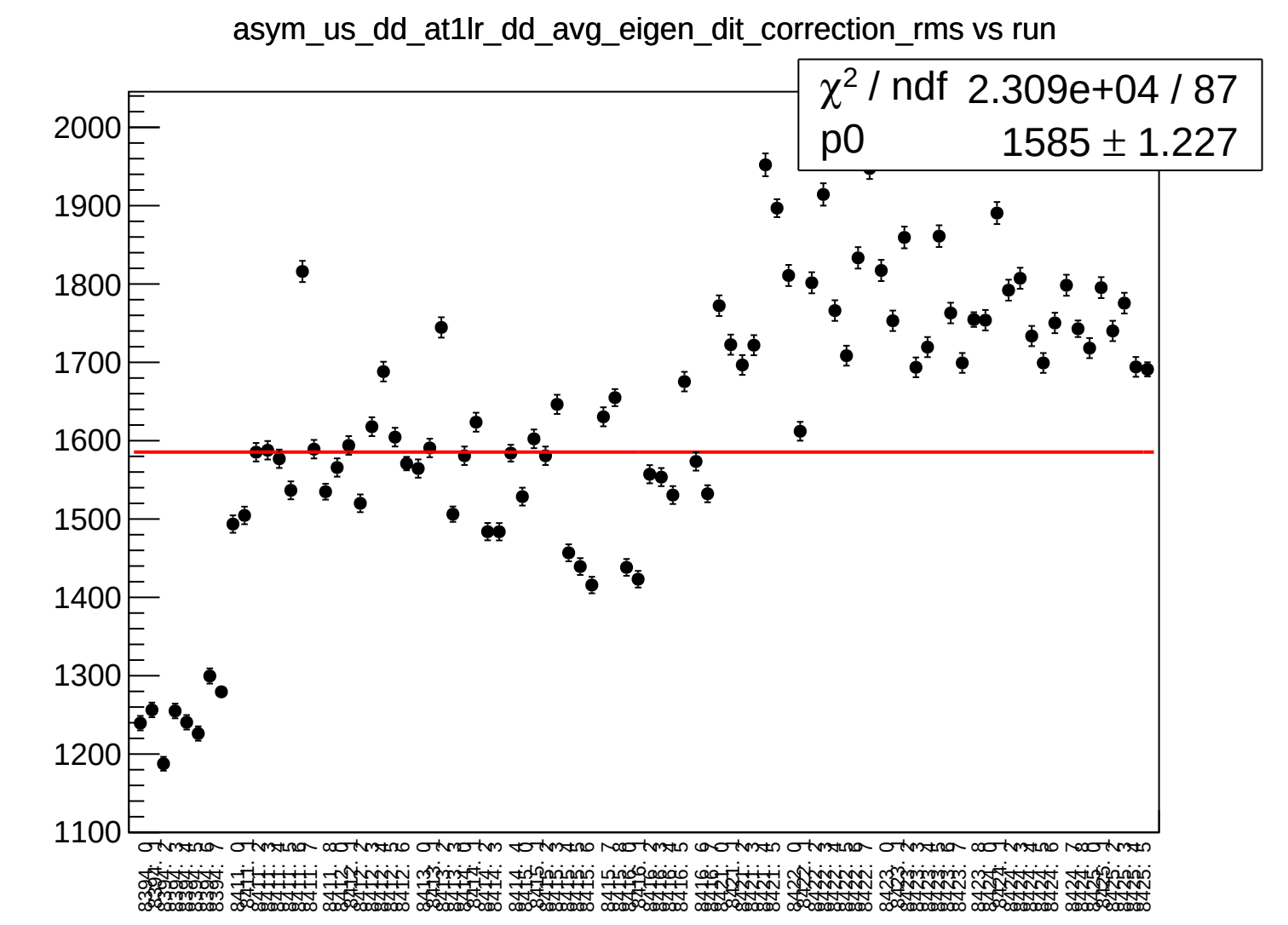

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 66.49 / 87
p0 −1782 ± 2340
pull
Entries 88
Mean 49.11
Std Dev 48.55

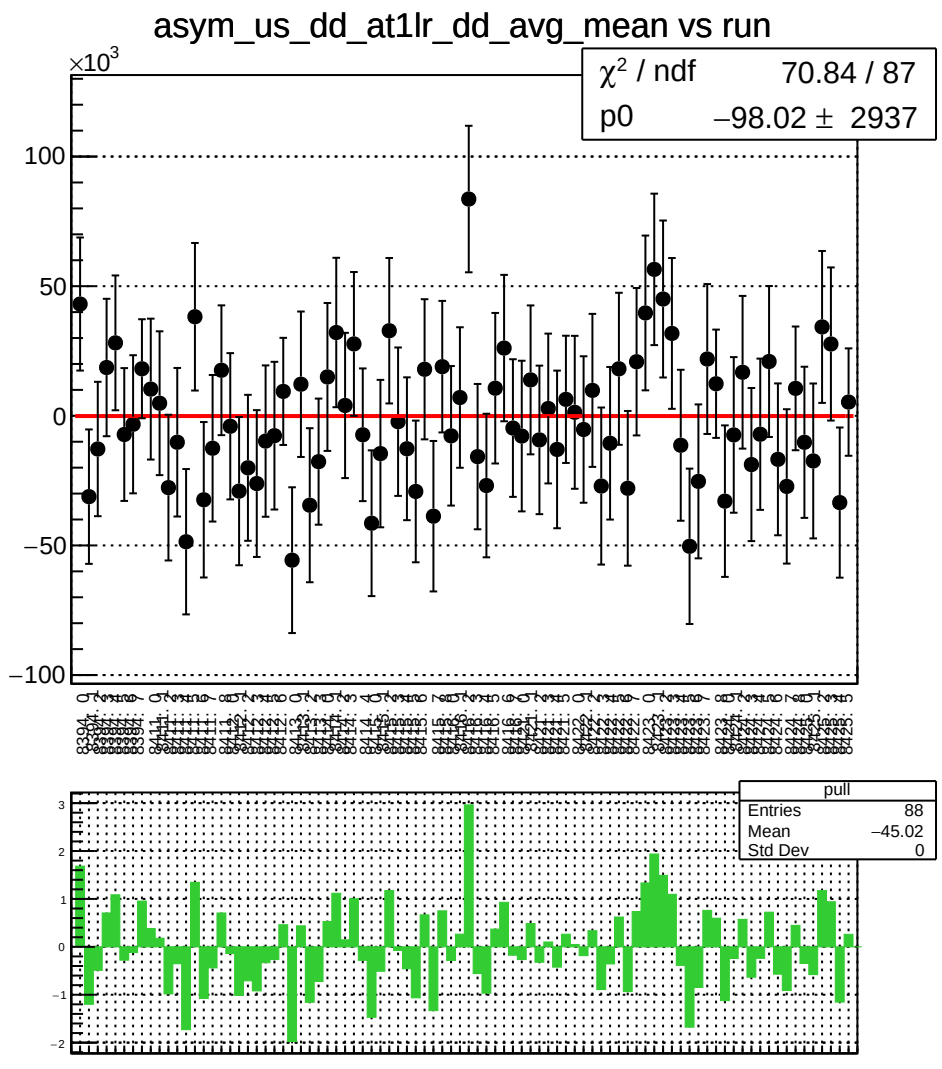

pull1D
Entries 88
Mean −0.008034
Std Dev 0.8692

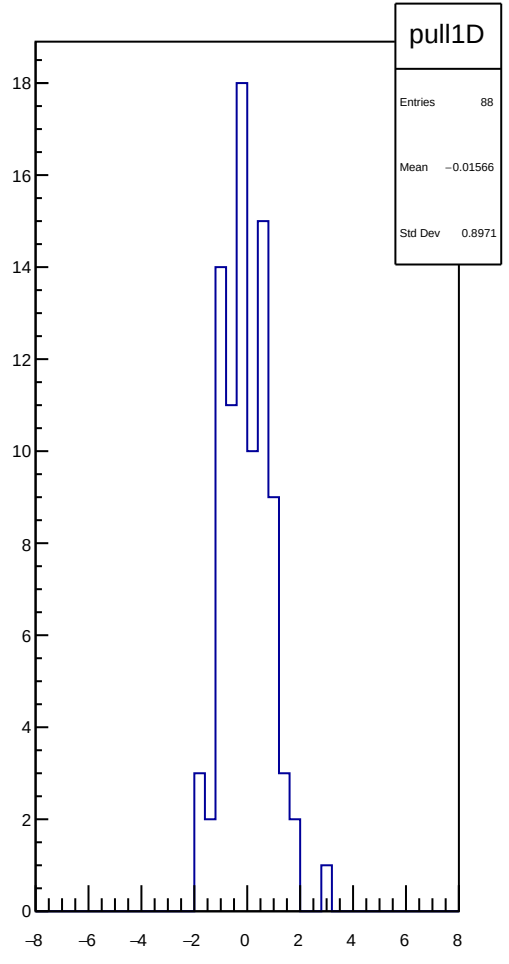

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 100.3 / 87
p0 2153 ± 1.655
2200
2180
2160
2140
2120
2100
2080

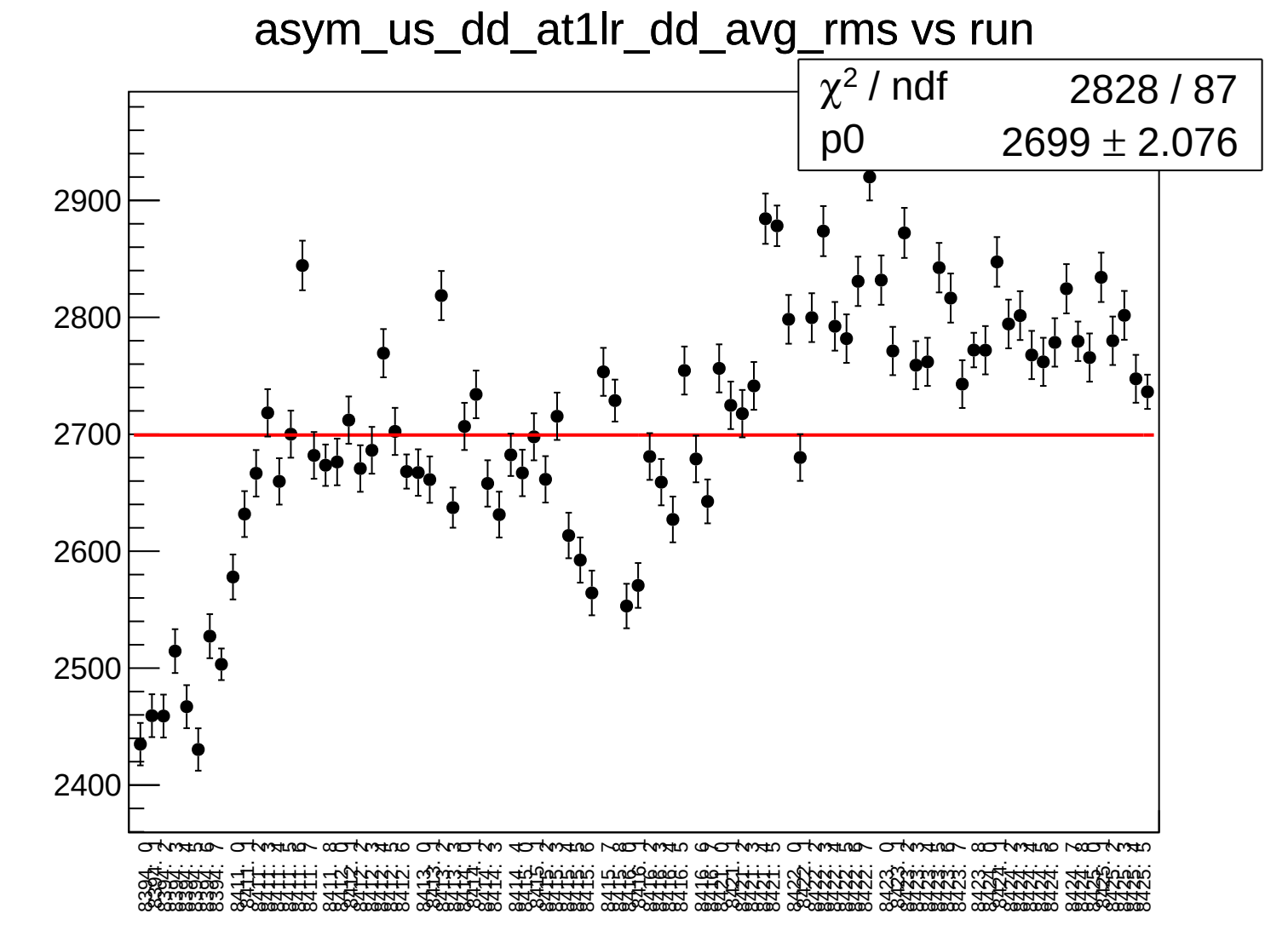

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 65.26 / 87
p0 −1684 ± 1735
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −108.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

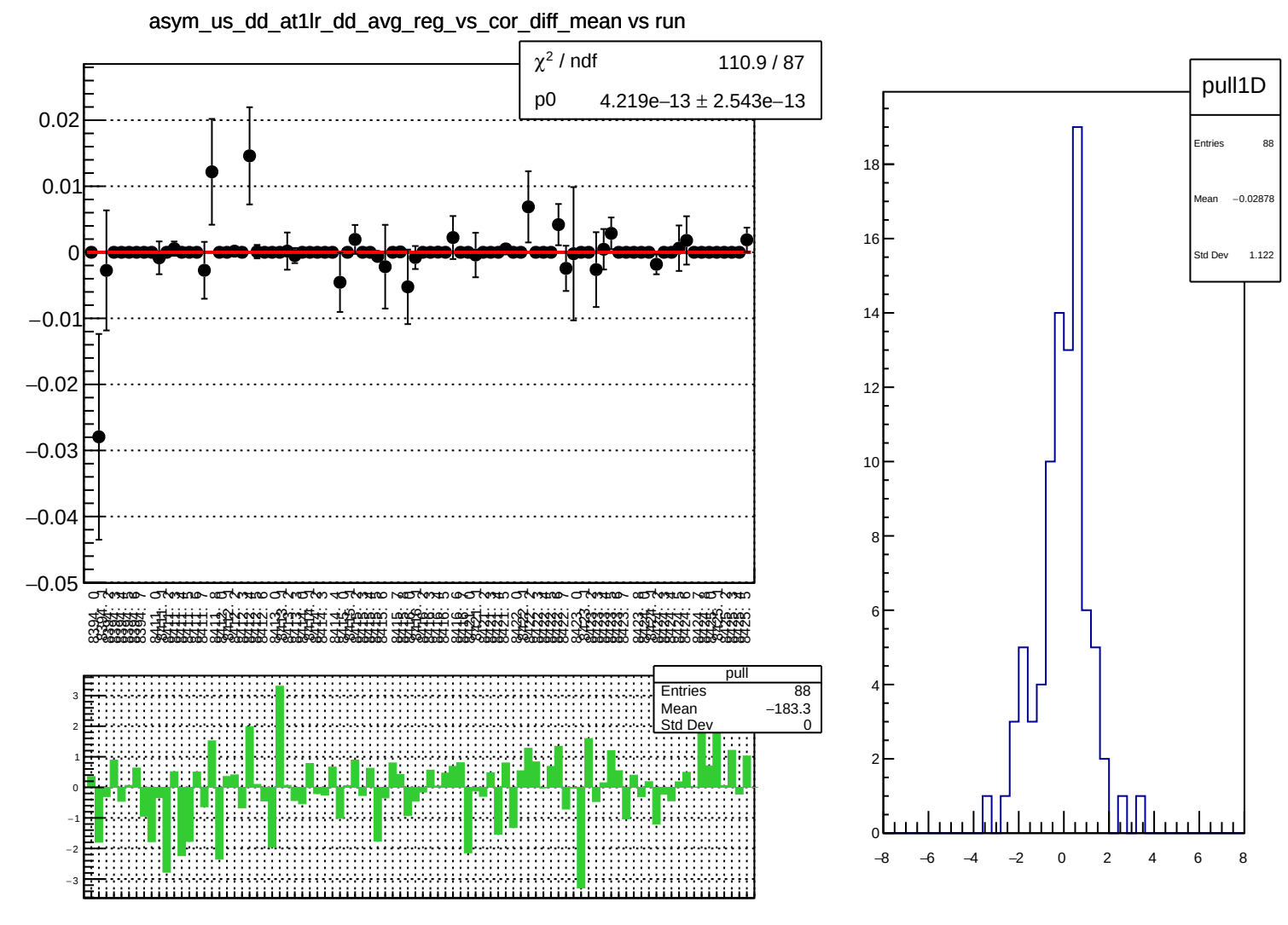

pull1D
Entries 88
Mean 0.0159
Std Dev 0.861
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

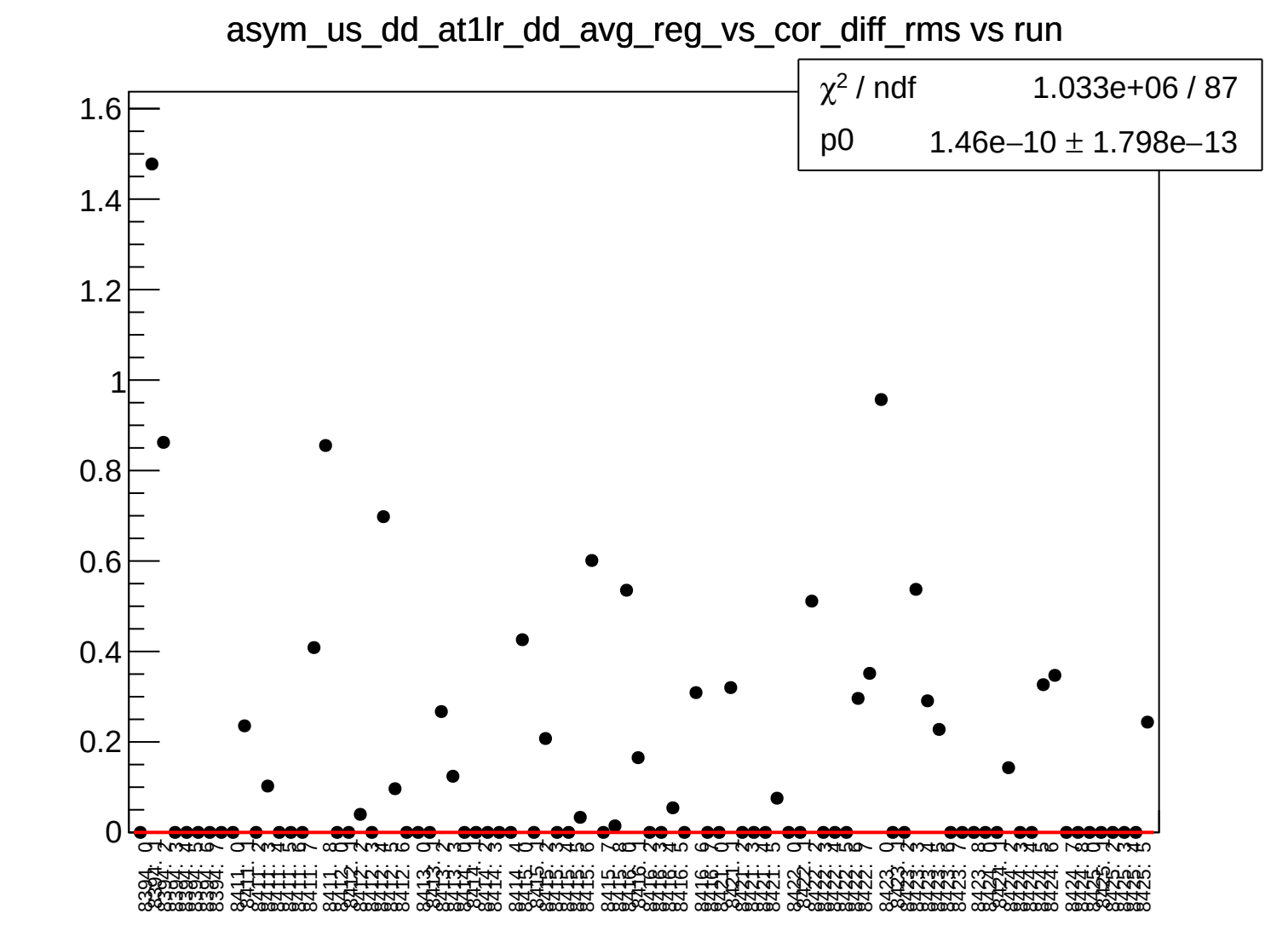

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.309e+04 / 87
p0 1585 ± 1.227
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100

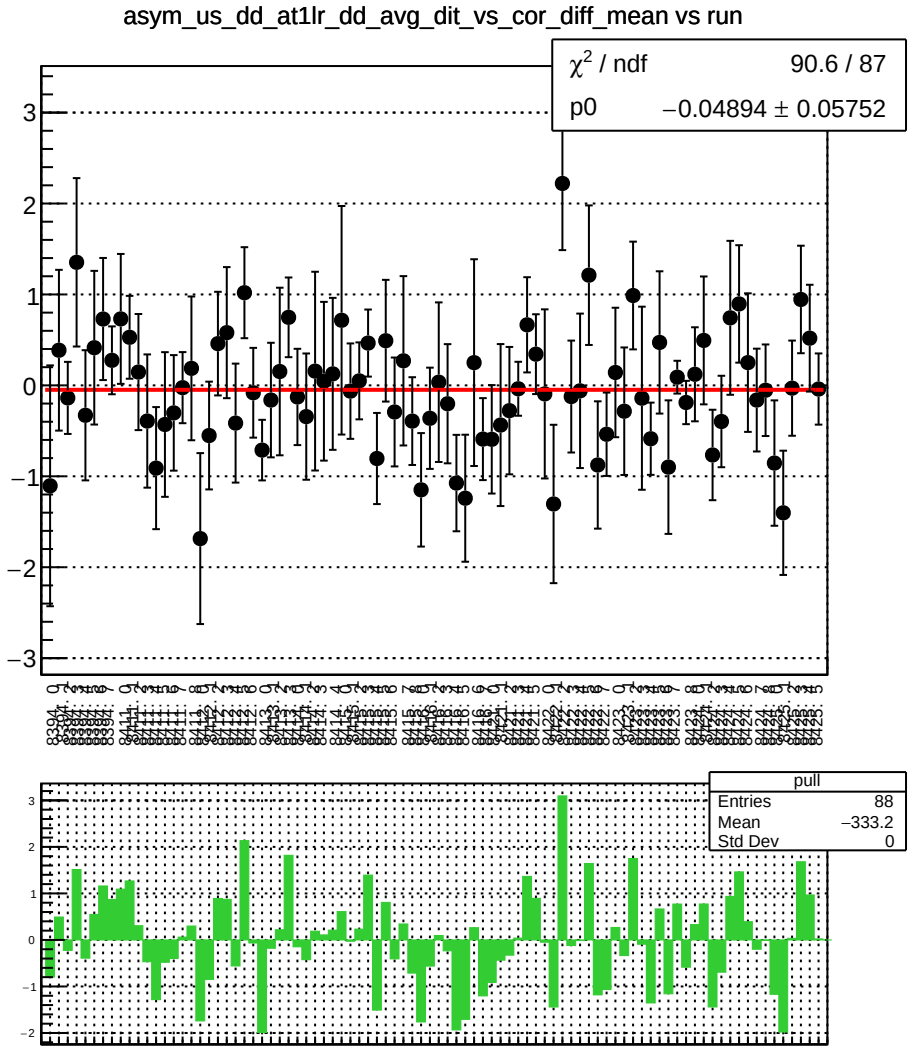

asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 70.84 / 87
p0 −98.02 ± 2937
100
50
0
−50
−100
pull
Entries 88
Mean −45.02
Std Dev 0
3
2
1
0
−1
−2

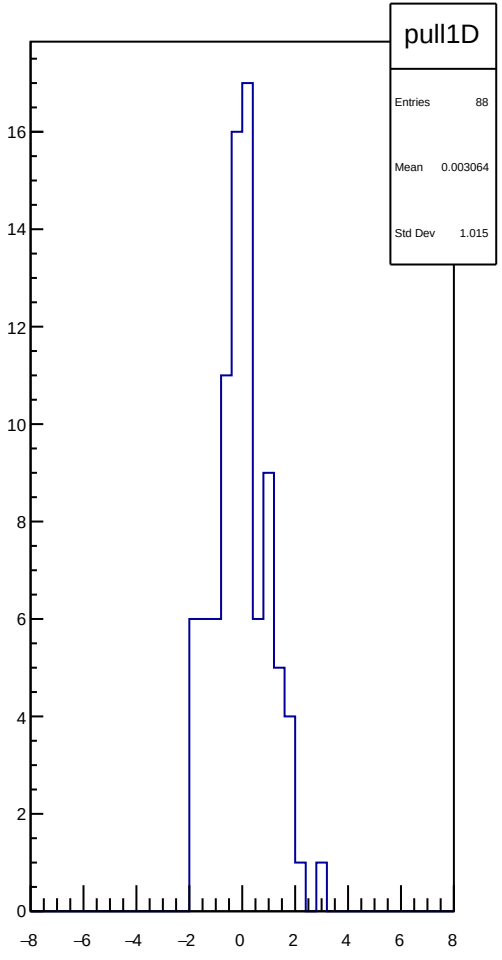

pull1D
Entries 88
Mean −0.01566
Std Dev 0.8971
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

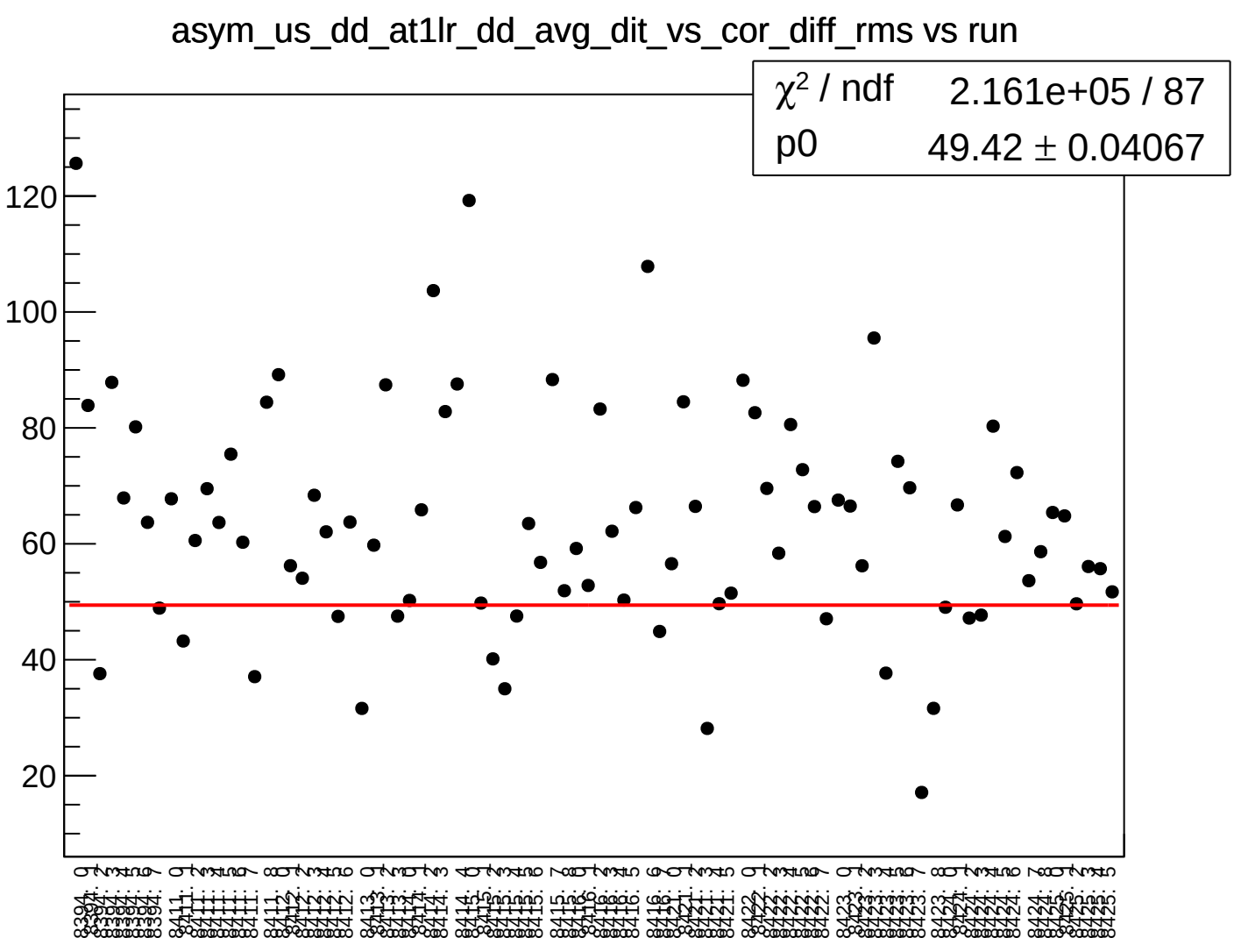

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 2828 / 87
p0 2699 ± 2.076
2900
2800
2700
2600
2500
2400

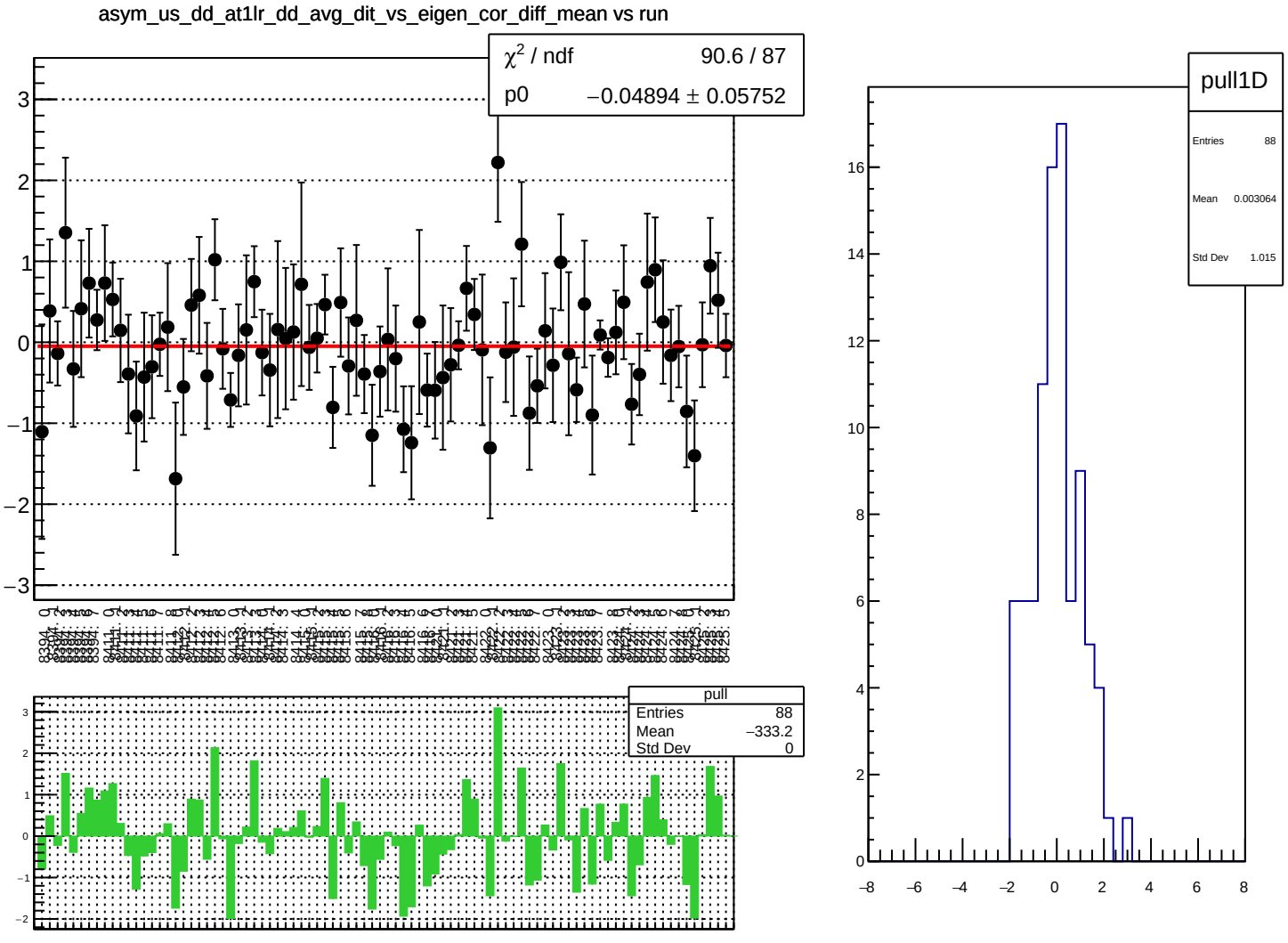

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 110.9 / 87
p0 4.219e−13 ± 2.543e−13
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
−0.05
pull
Entries 88
Mean −183.3
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.02878
Std Dev 1.122
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

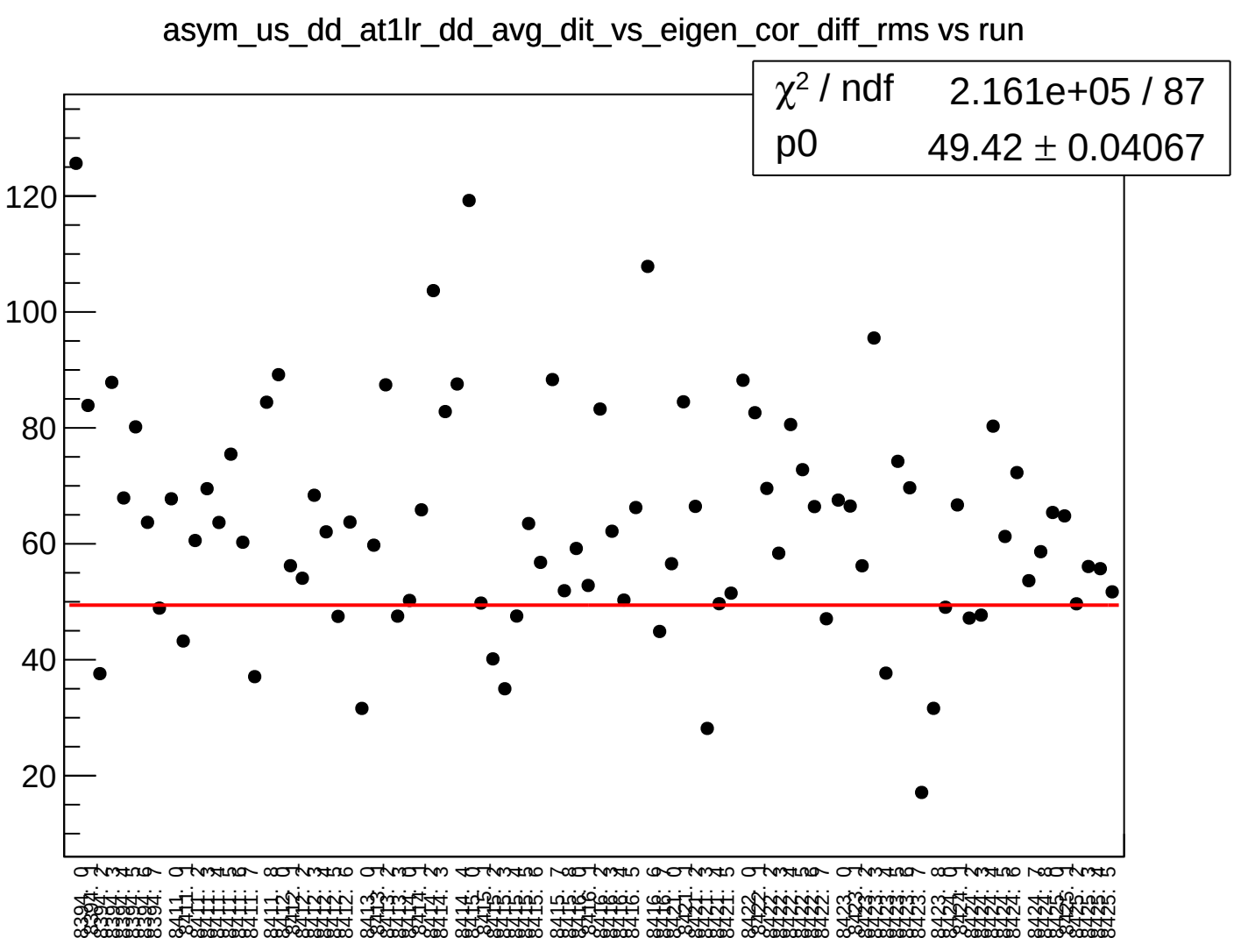

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.033e+06 / 87
p0 1.46e−10 ± 1.798e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

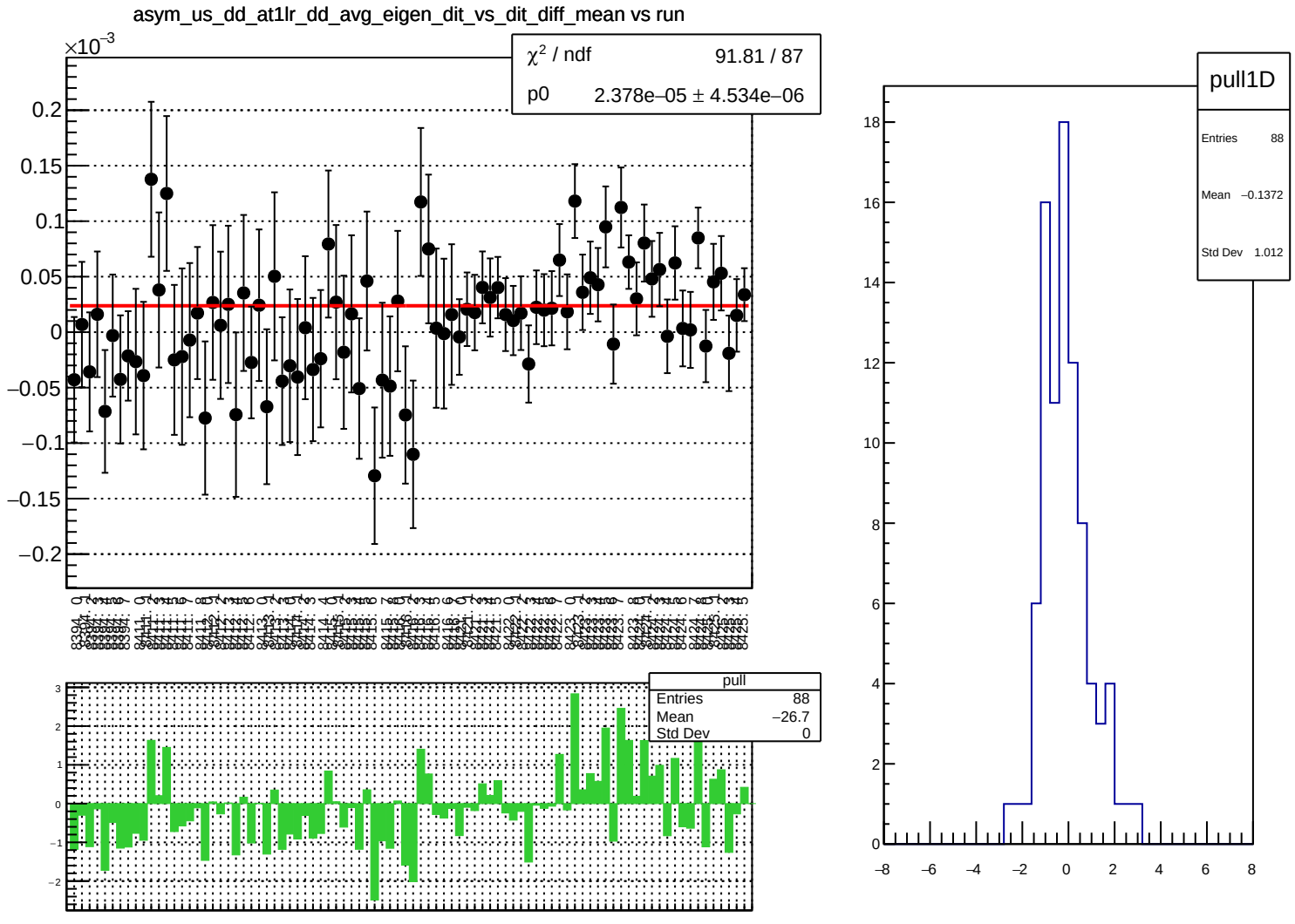

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 90.6 / 87
p0 −0.04894 ± 0.05752
pull
Entries 88
Mean −333.2
Std Dev 0

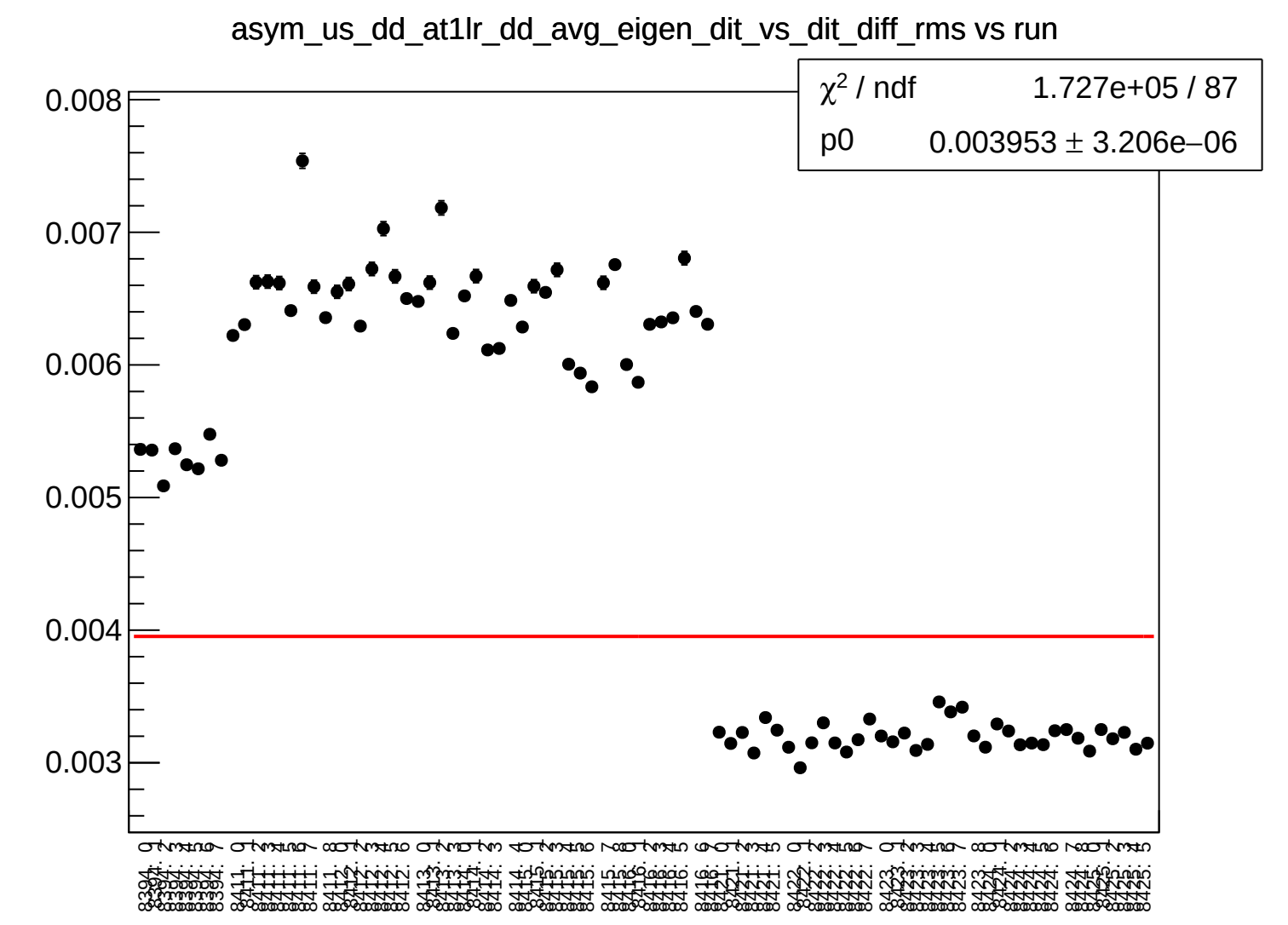

pull1D
Entries 88
Mean 0.003064
Std Dev 1.015

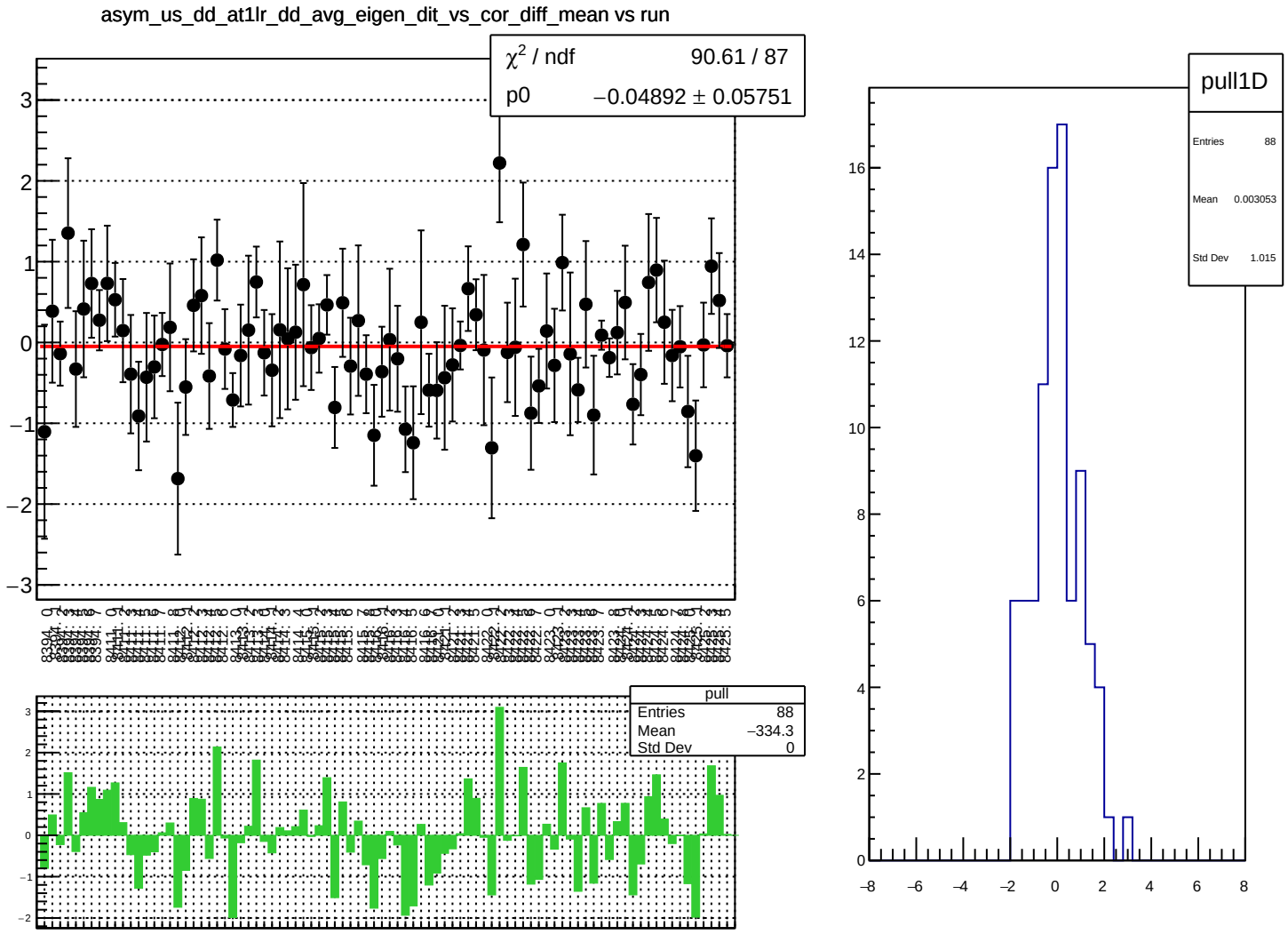

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.161e+05 / 87
p0 49.42 ± 0.04067
120
100
80
60
40
20

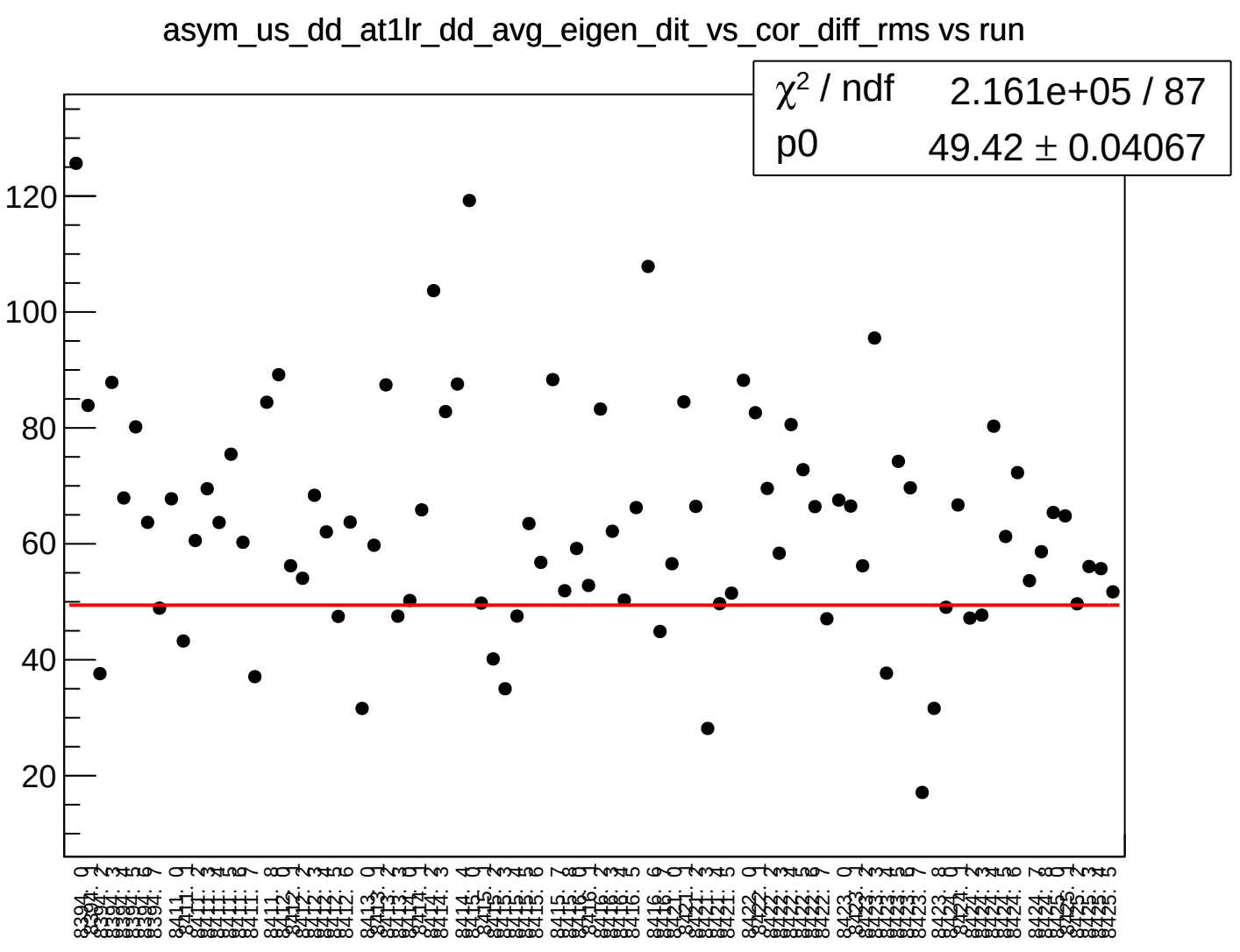

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.6 / 87
p0 −0.04894 ± 0.05752
pull
Entries 88
Mean −333.2
Std Dev 0
pull1D
Entries 88
Mean 0.003064
Std Dev 1.015

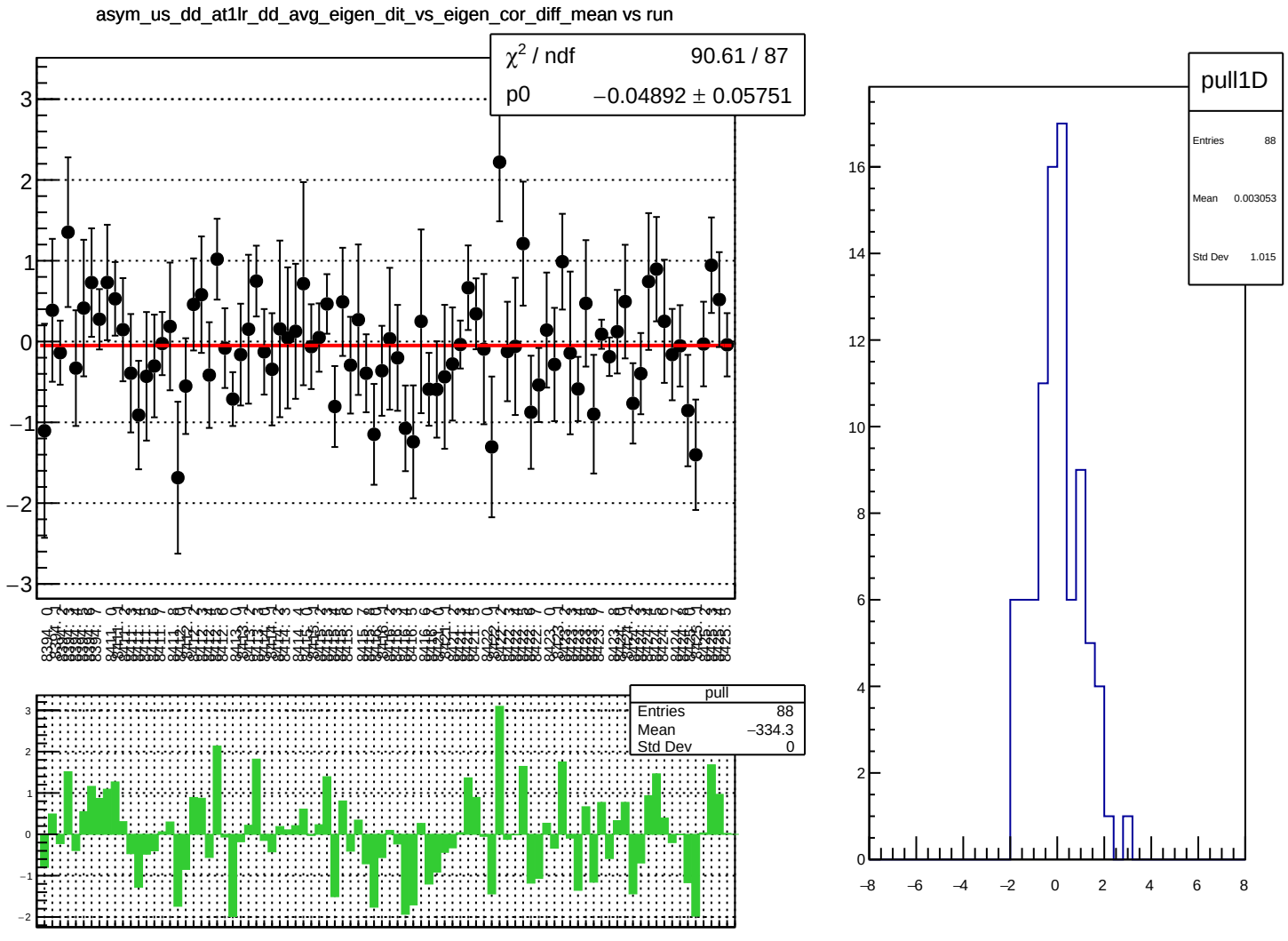

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.161e+05 / 87
p0 49.42 ± 0.04067
120
100
80
60
40
20

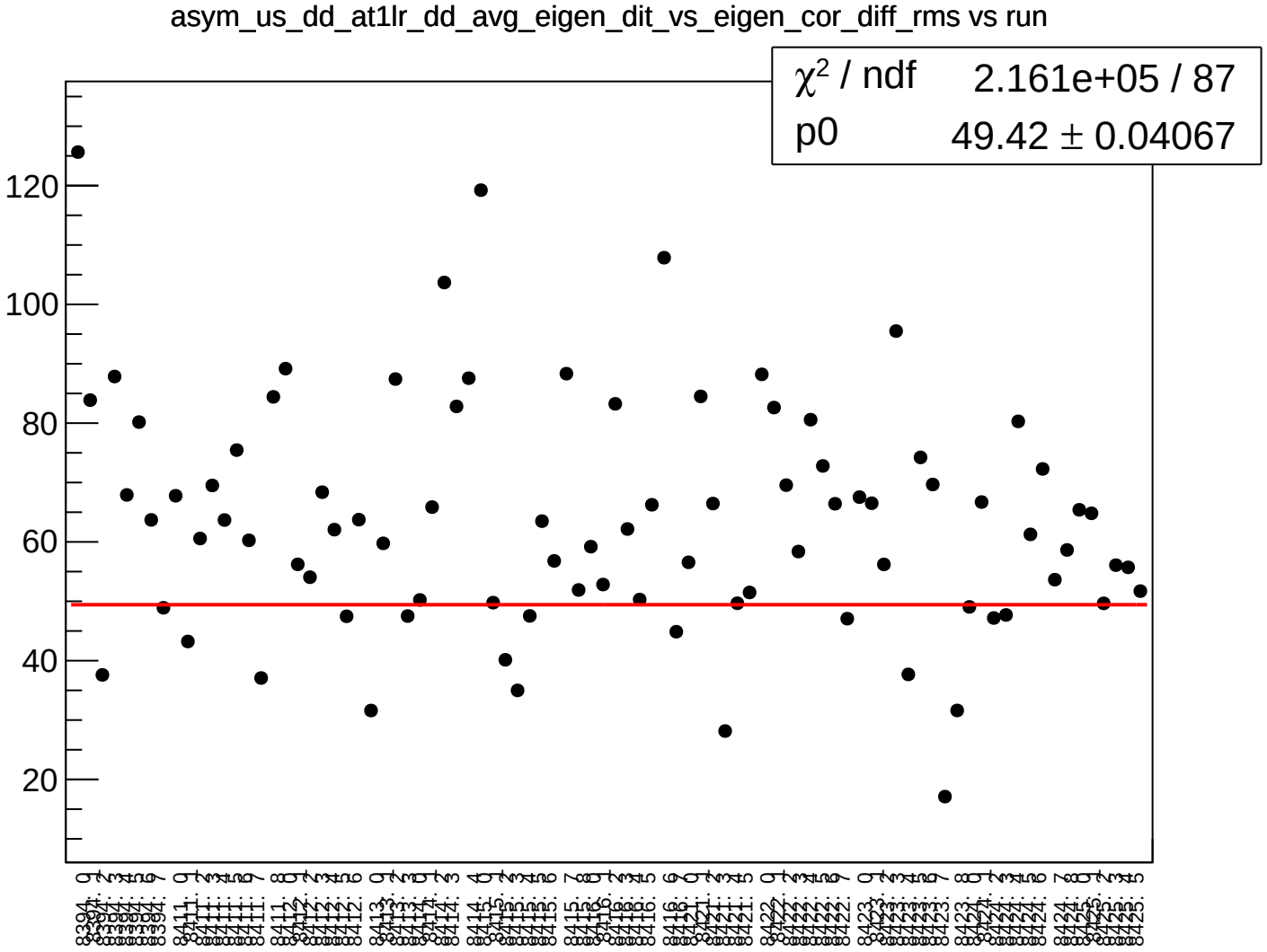

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.81 / 87
p0 2.378e−05 ± 4.534e−06
pull
Entries 88
Mean −26.7
Std Dev 0
pull1D
Entries 88
Mean −0.1372
Std Dev 1.012

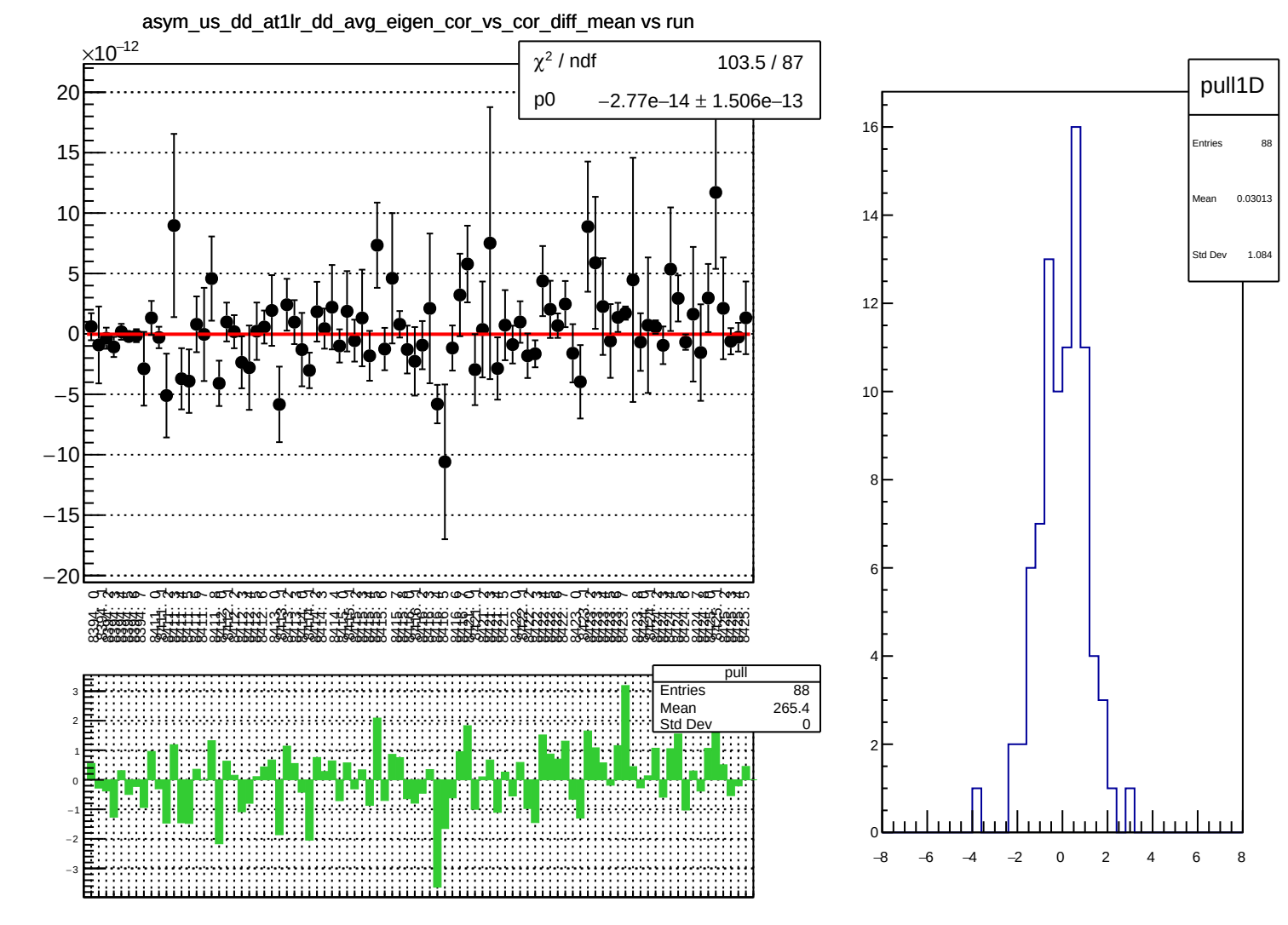

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.727e+05 / 87
p0 0.003953 ± 3.206e−06
0.008
0.007
0.006
0.005
0.004
0.003

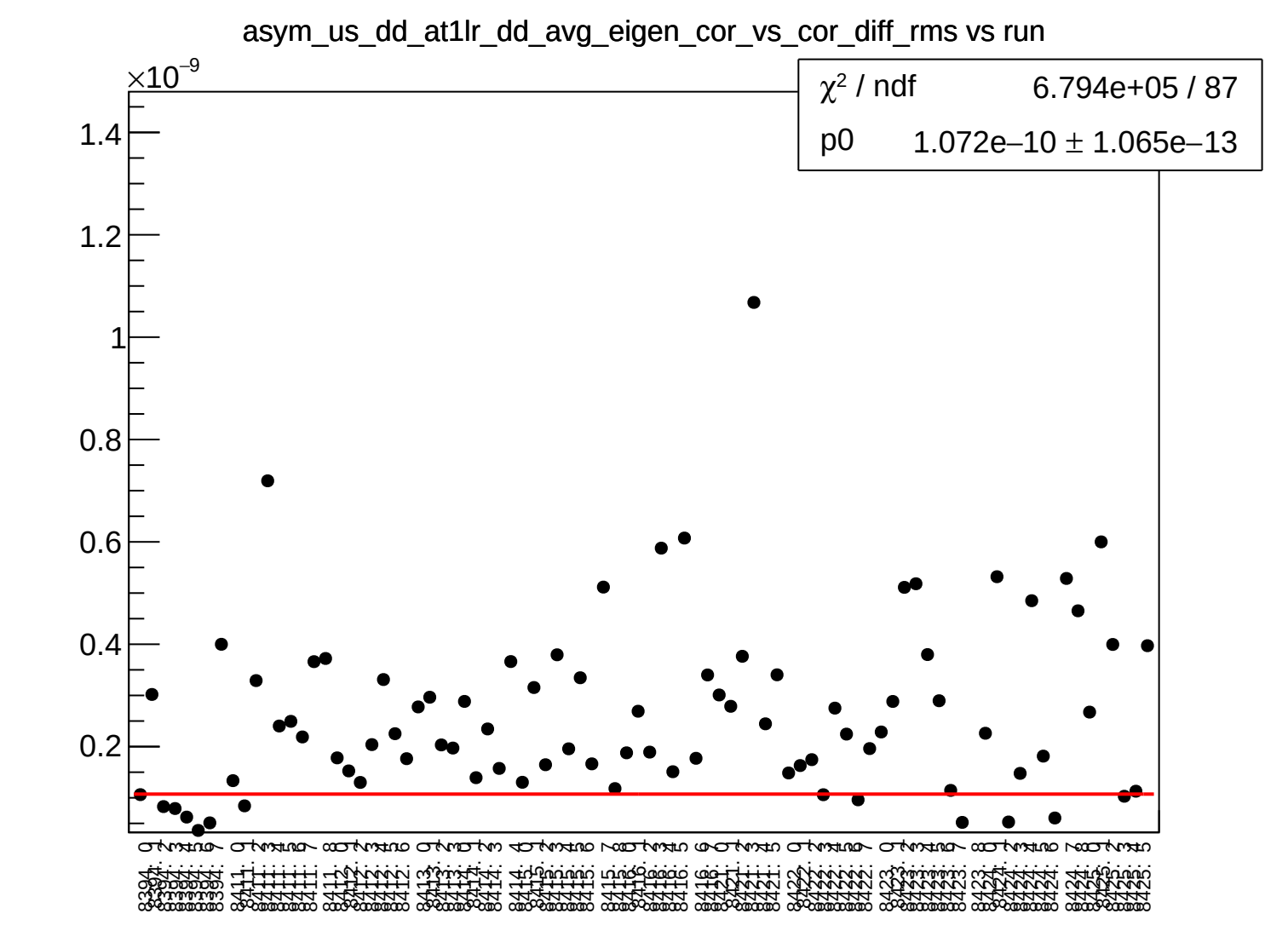

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.61 / 87
p0 −0.04892 ± 0.05751
pull
Entries 88
Mean −334.3
Std Dev 0
pull1D
Entries 88
Mean 0.003053
Std Dev 1.015

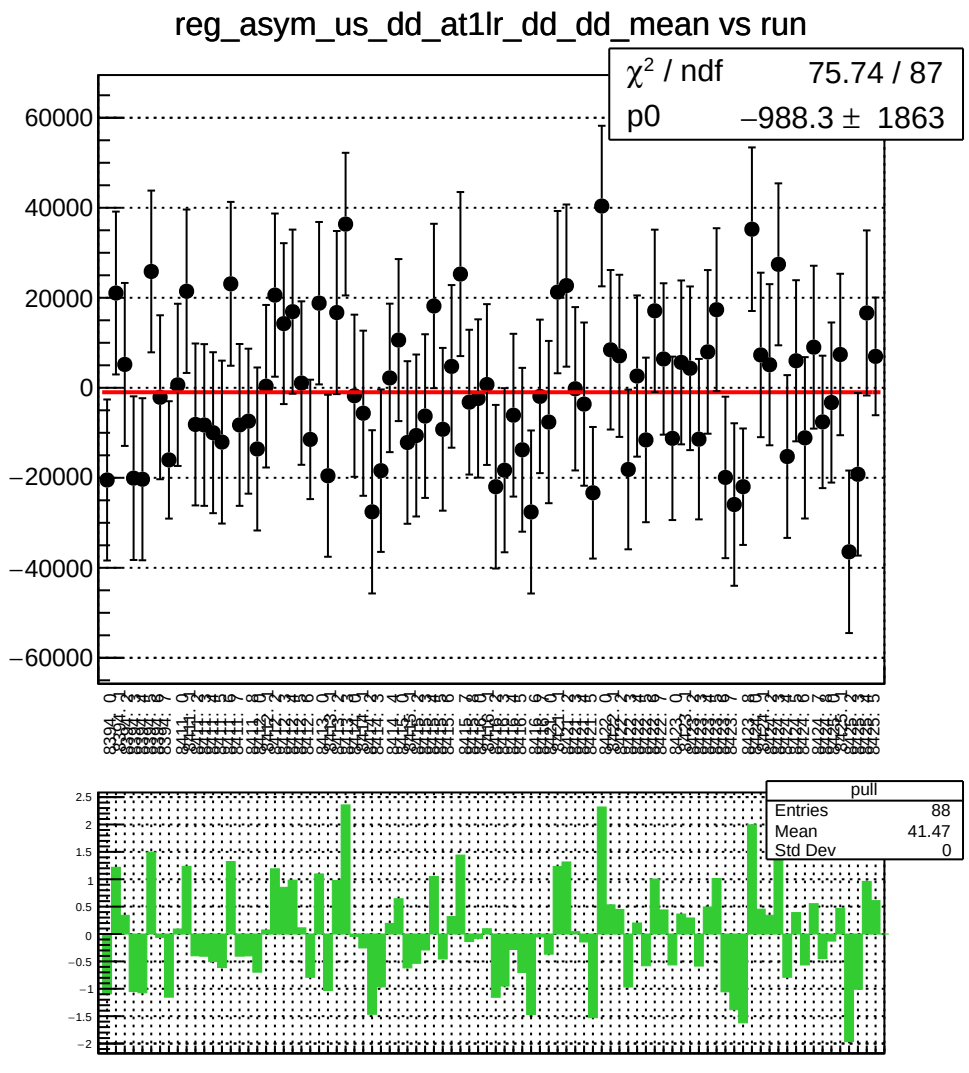

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.161e+05 / 87
p0 49.42 ± 0.04067
120
100
80
60
40
20

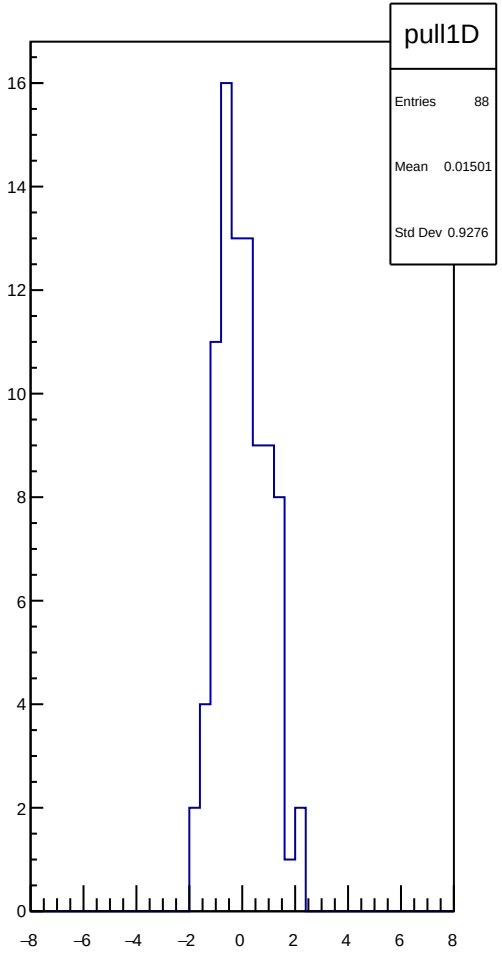

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.61 / 87
p0 −0.04892 ± 0.05751
pull
Entries 88
Mean −334.3
Std Dev 0
pull1D
Entries 88
Mean 0.003053
Std Dev 1.015

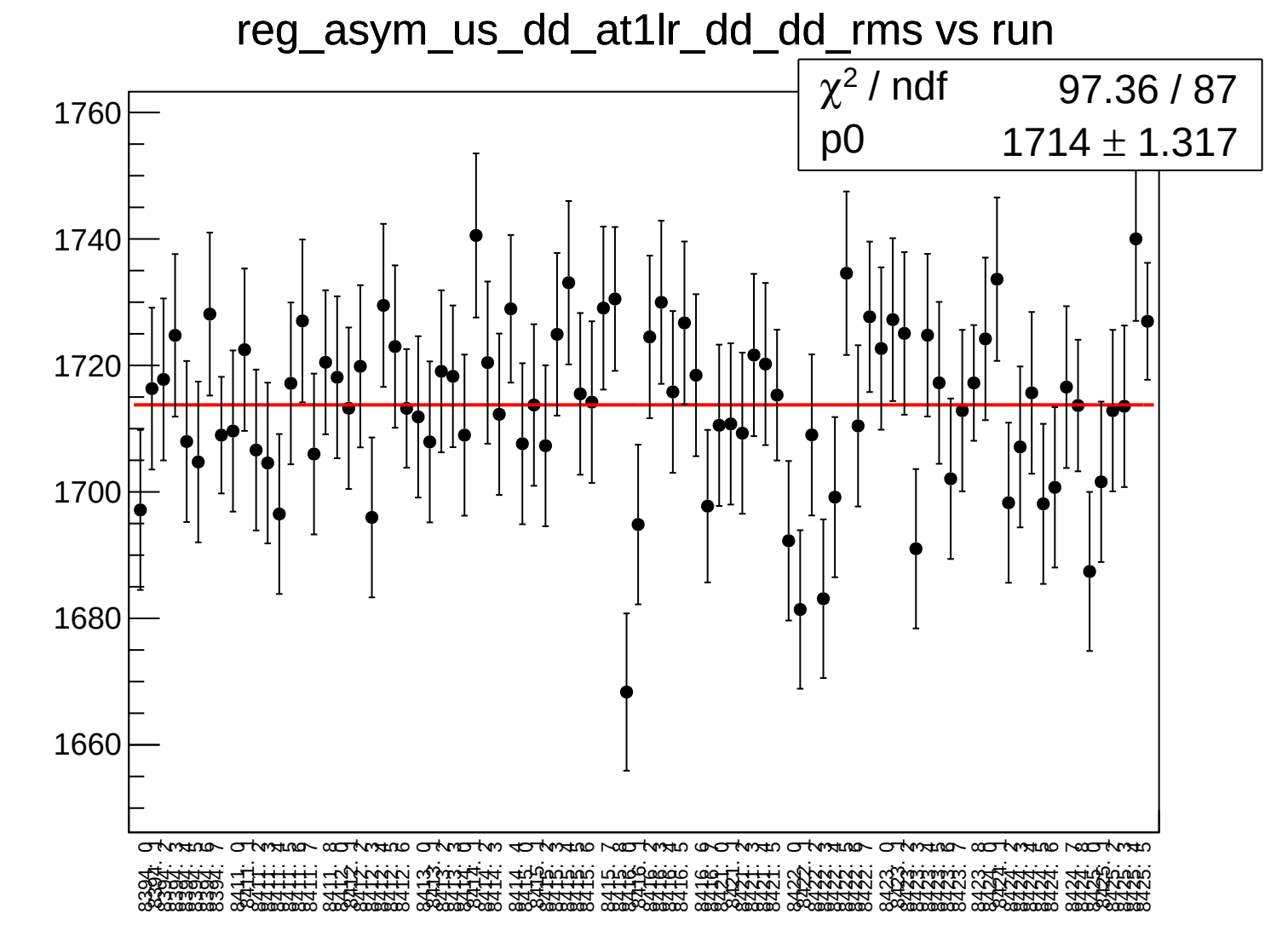

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.161e+05 / 87
p0 49.42 ± 0.04067
120
100
80
60
40
20

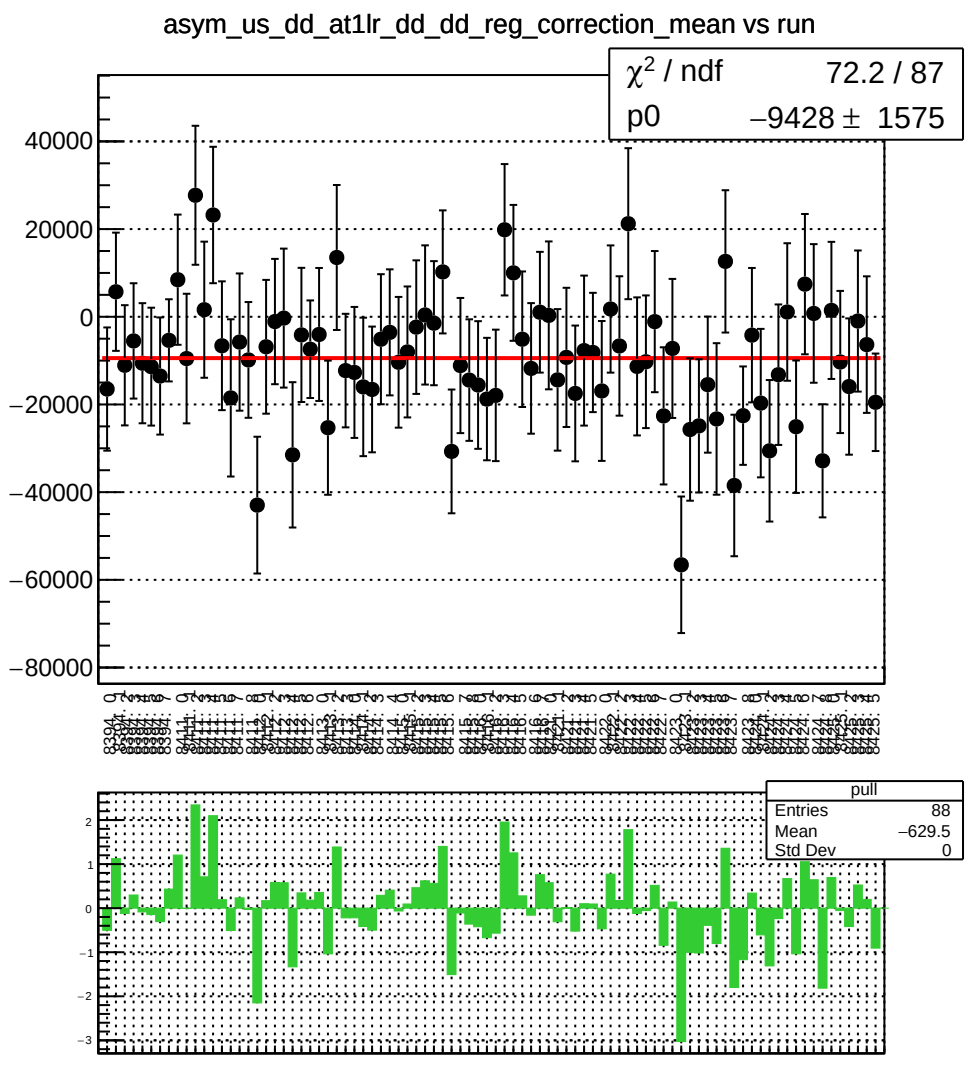

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 103.5 / 87
p0 −2.77e−14 ± 1.506e−13
pull
Entries 88
Mean 265.4
Std Dev 0
pull1D
Entries 88
Mean 0.03013
Std Dev 1.084

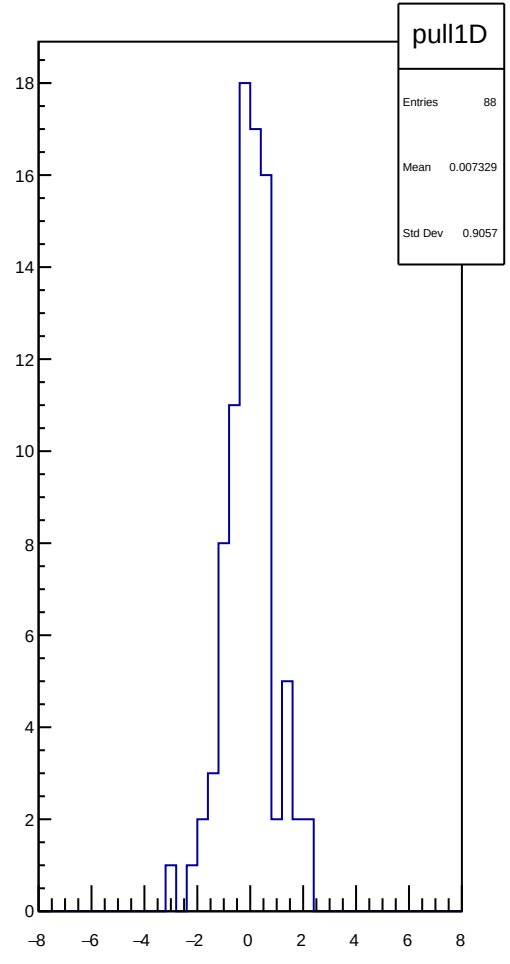

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.794e+05 / 87
p0 1.072e−10 ± 1.065e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

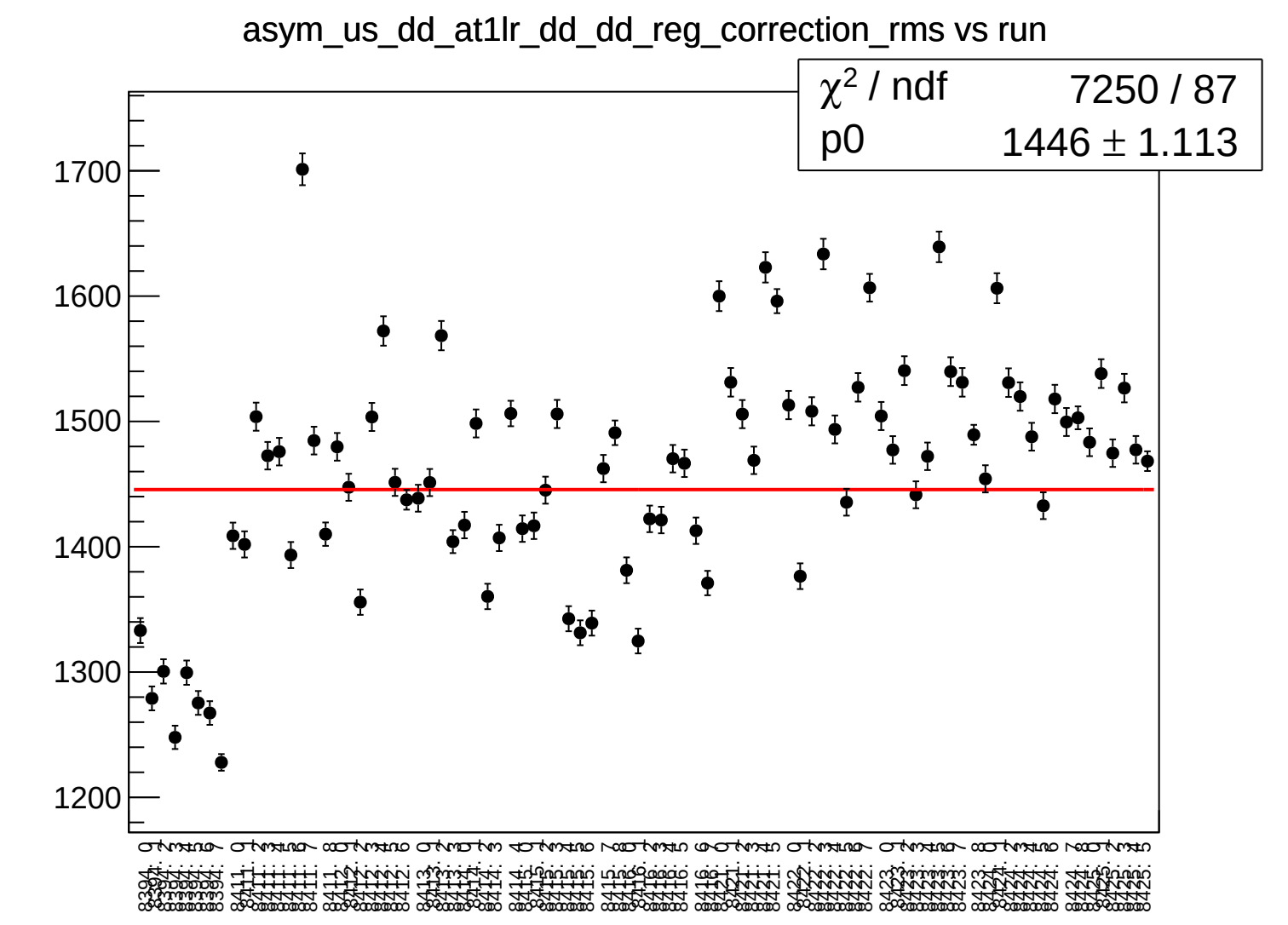

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 75.74 / 87
p0 −988.3 ± 1863
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 41.47
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

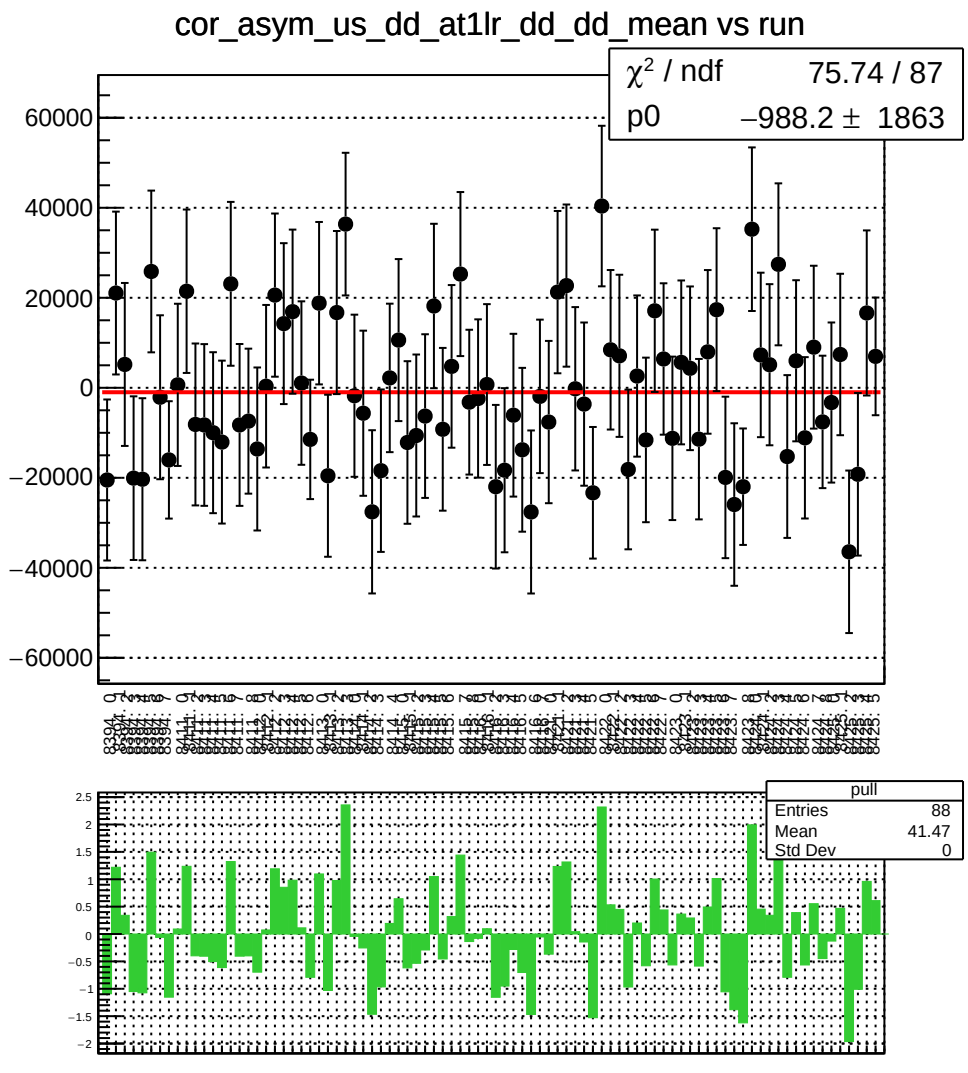

pull1D
Entries 88
Mean 0.01501
Std Dev 0.9276
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

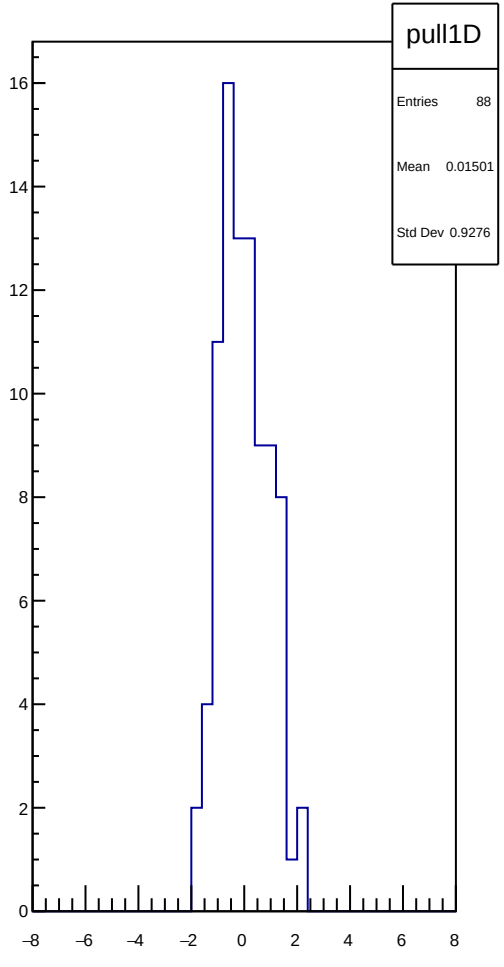

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 97.36 / 87
p0 1714 ± 1.317
1760
1740
1720
1700
1680
1660

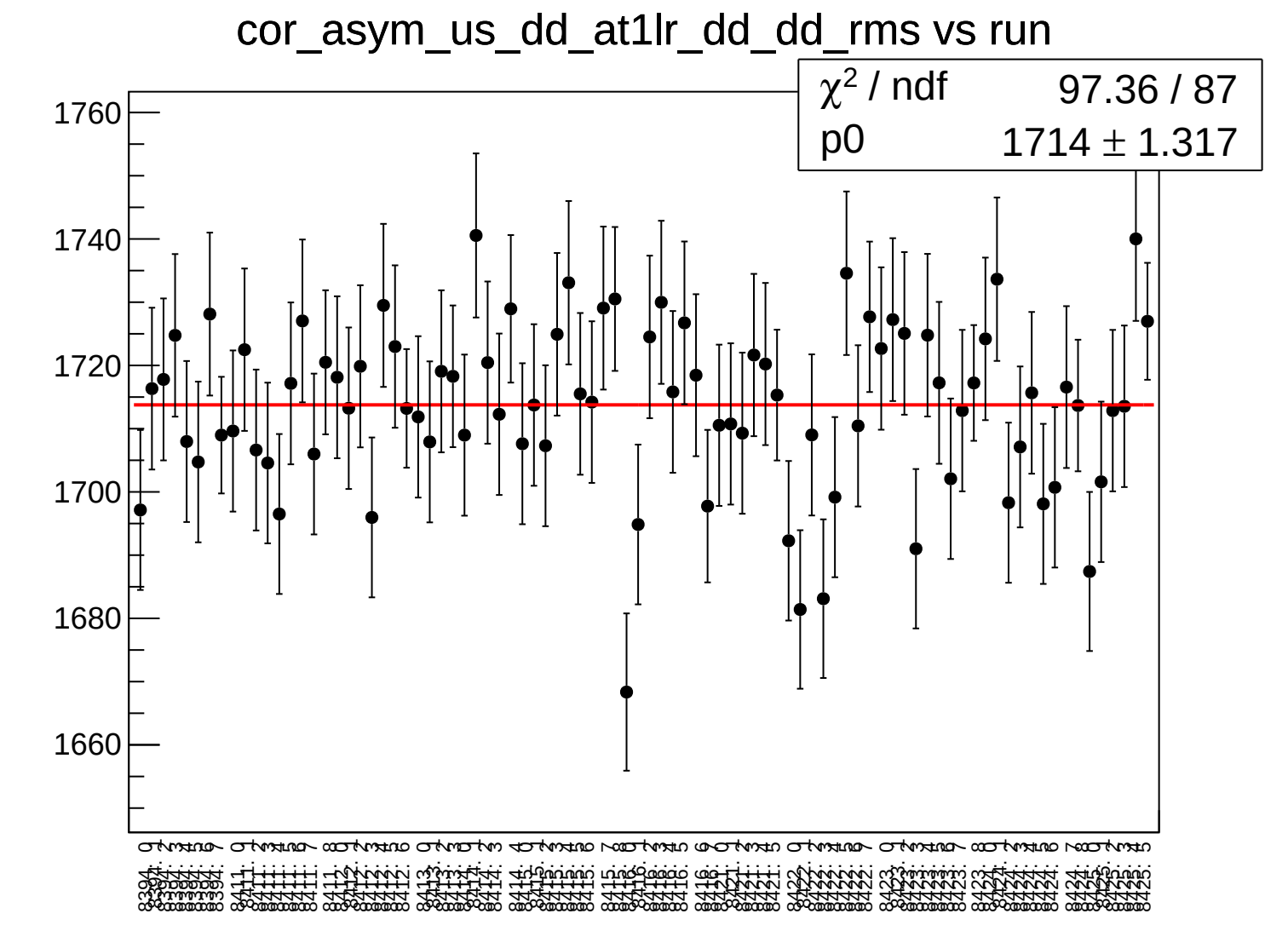

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 72.2 / 87
p0 −9428 ± 1575
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −629.5
Std Dev 0
2
1
0
−1
−2
−3

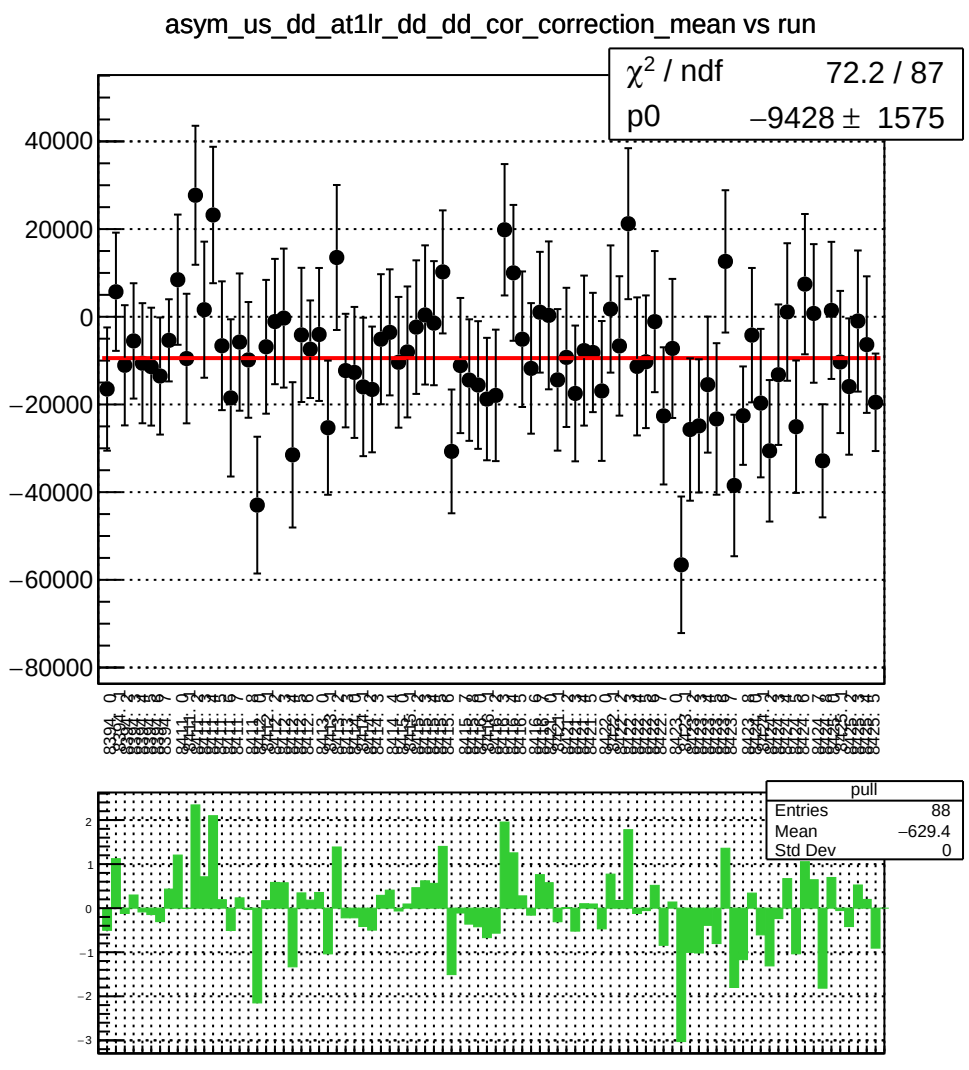

pull1D
Entries 88
Mean 0.007329
Std Dev 0.9057
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

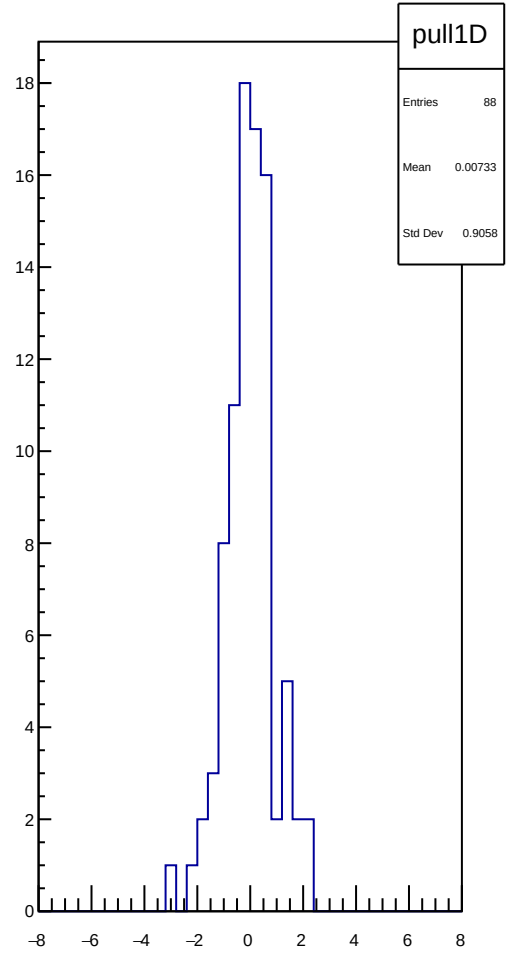

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 7250 / 87
p0 1446 ± 1.113
1700
1600
1500
1400
1300
1200

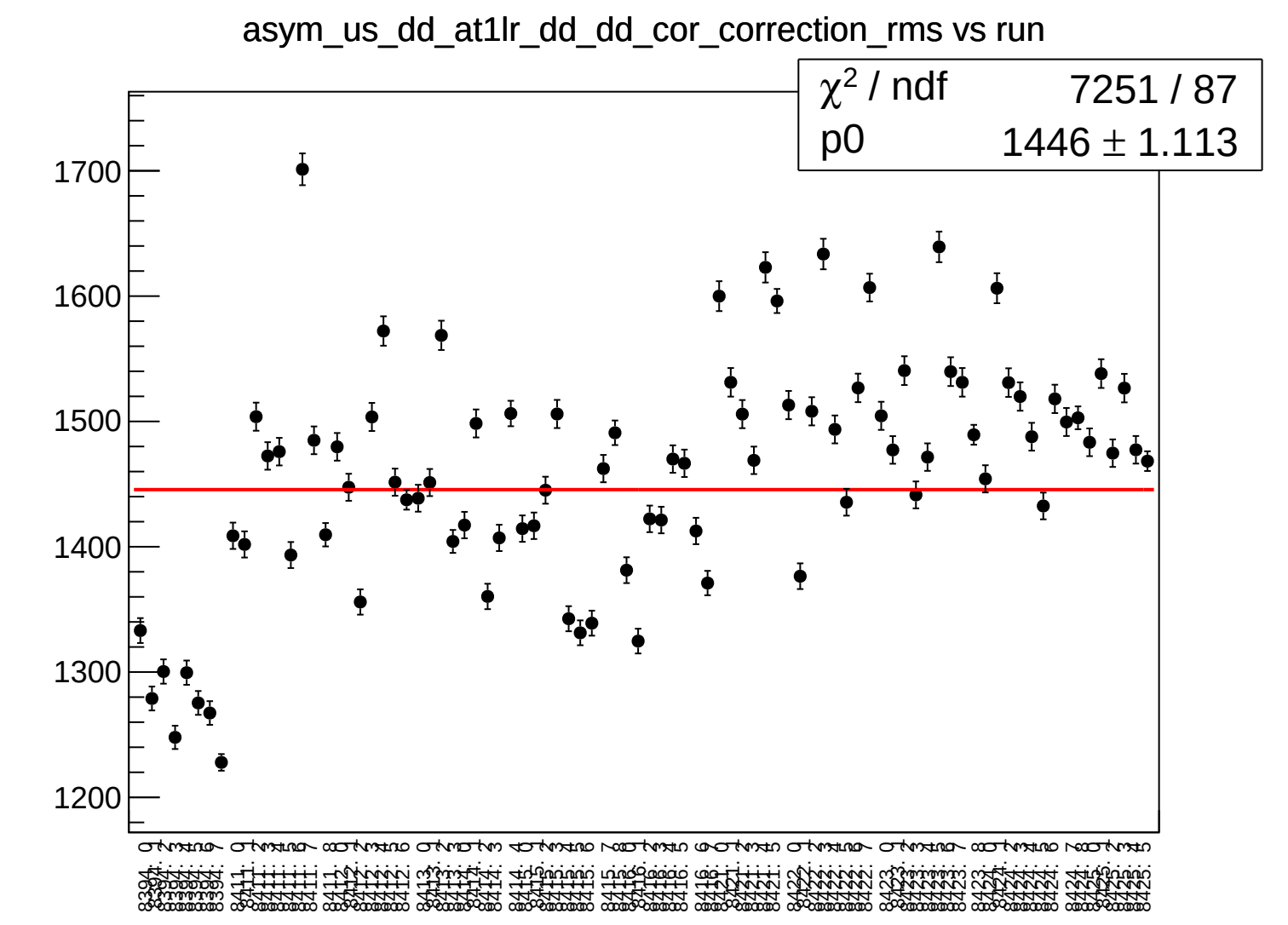

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 75.74 / 87
p0 −988.2 ± 1863
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 41.47
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

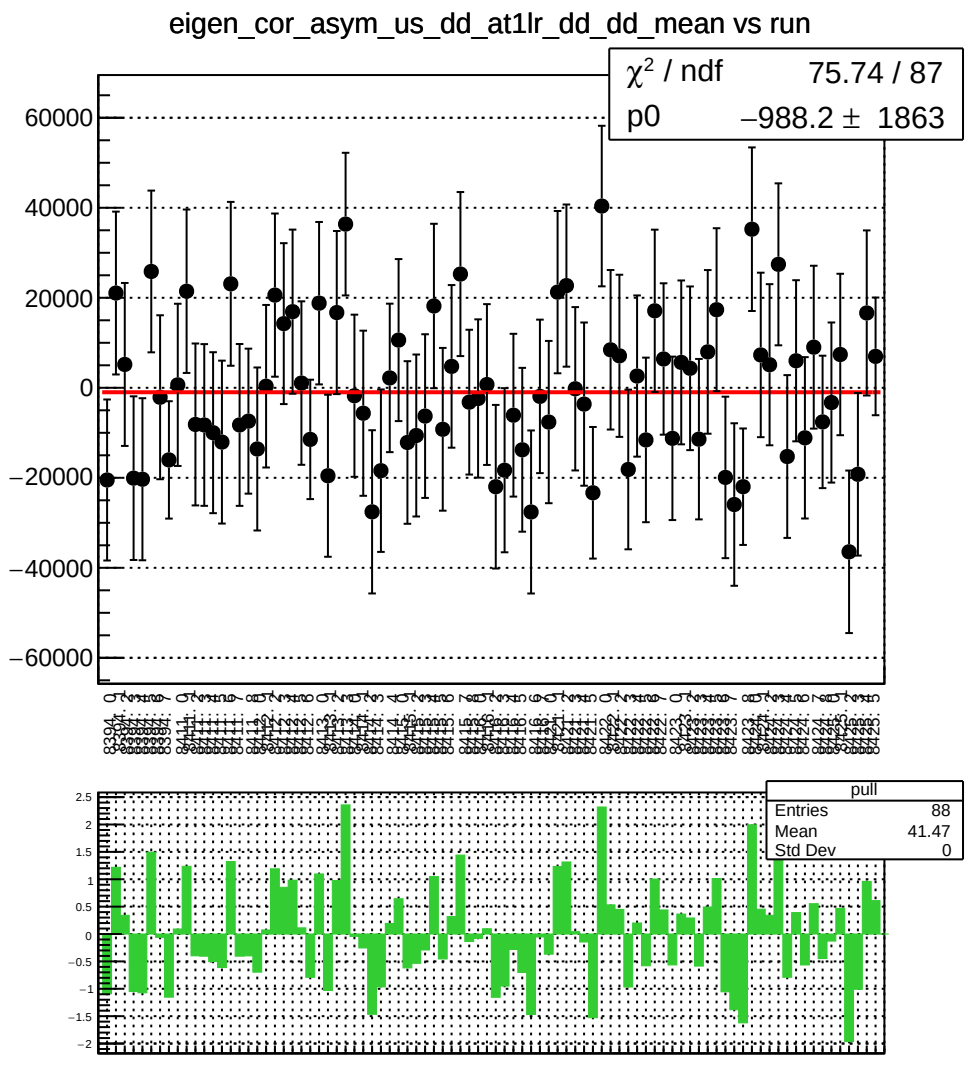

pull1D
Entries 88
Mean 0.01501
Std Dev 0.9276
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

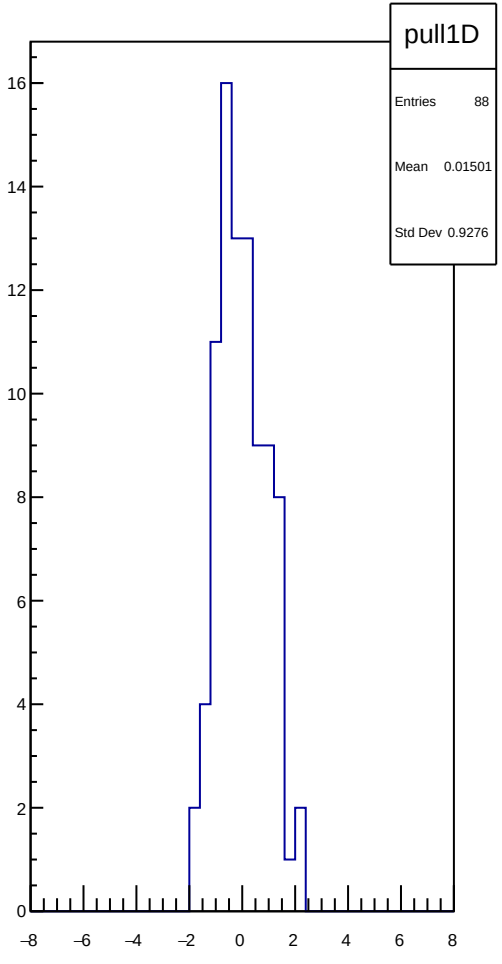

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 97.36 / 87
p0 1714 ± 1.317
1760
1740
1720
1700
1680
1660

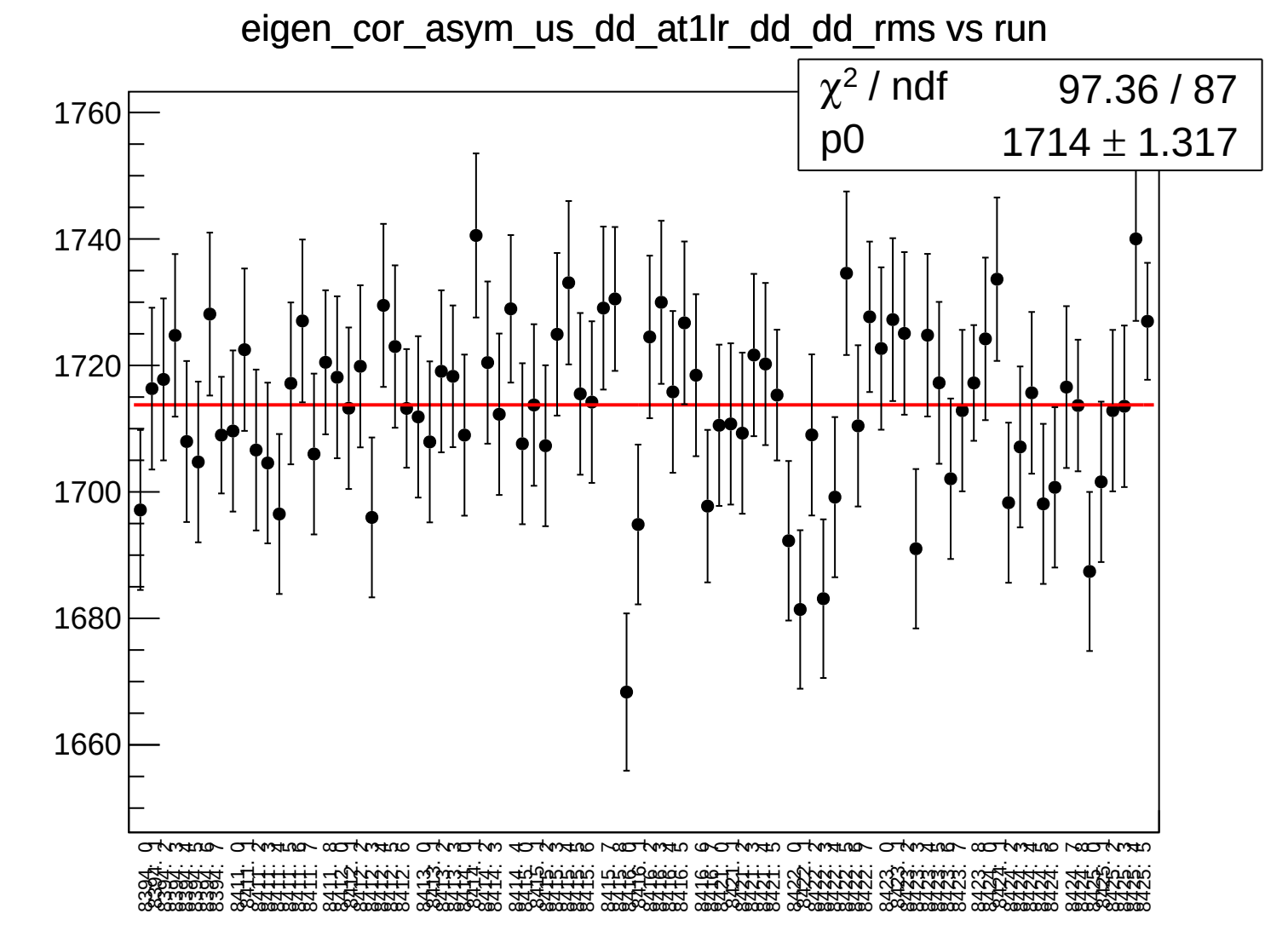

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 72.2 / 87
p0 −9428 ± 1575
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −629.4
Std Dev 0
2
1
0
−1
−2
−3

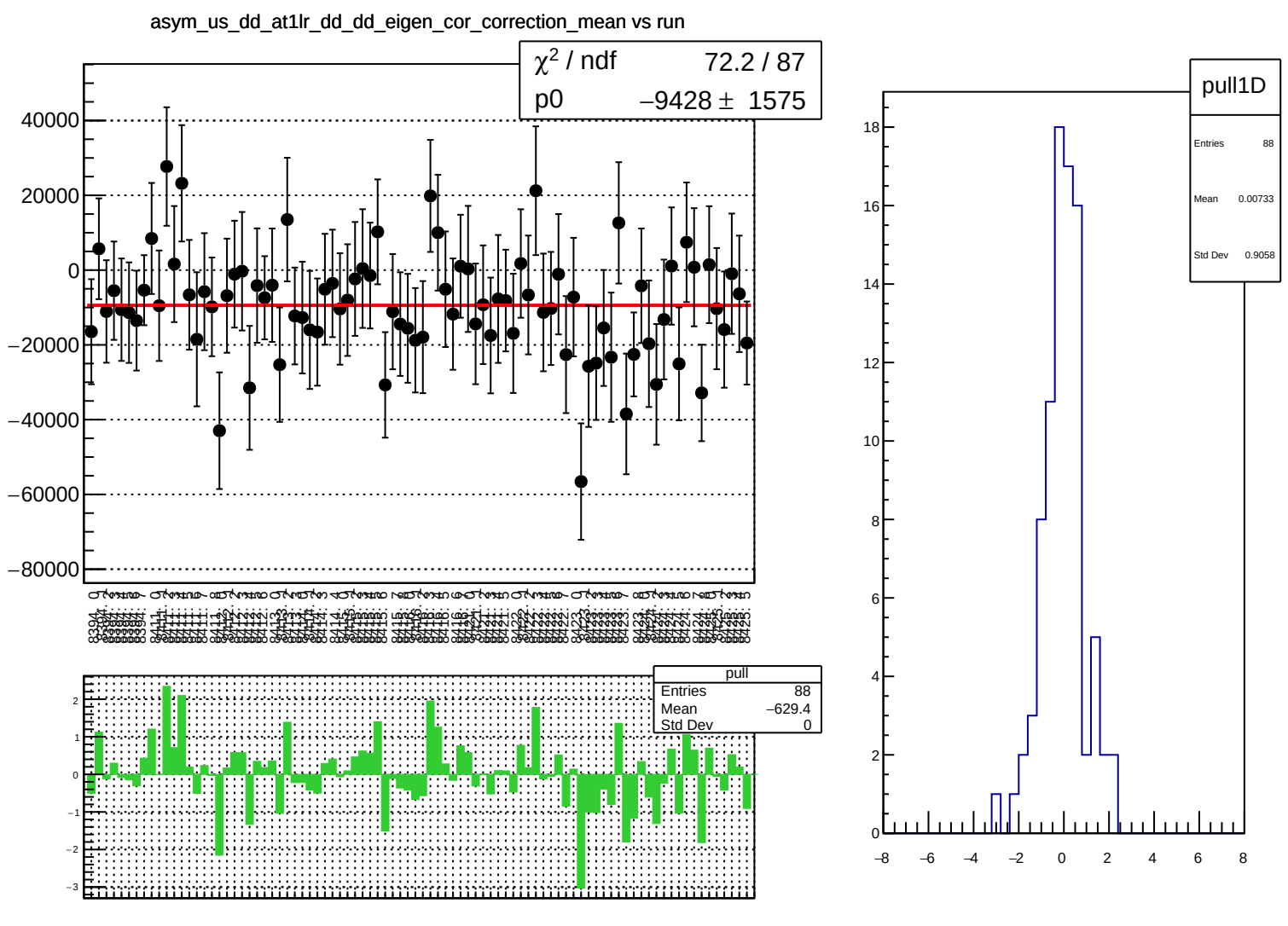

pull1D
Entries 88
Mean 0.00733
Std Dev 0.9058
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

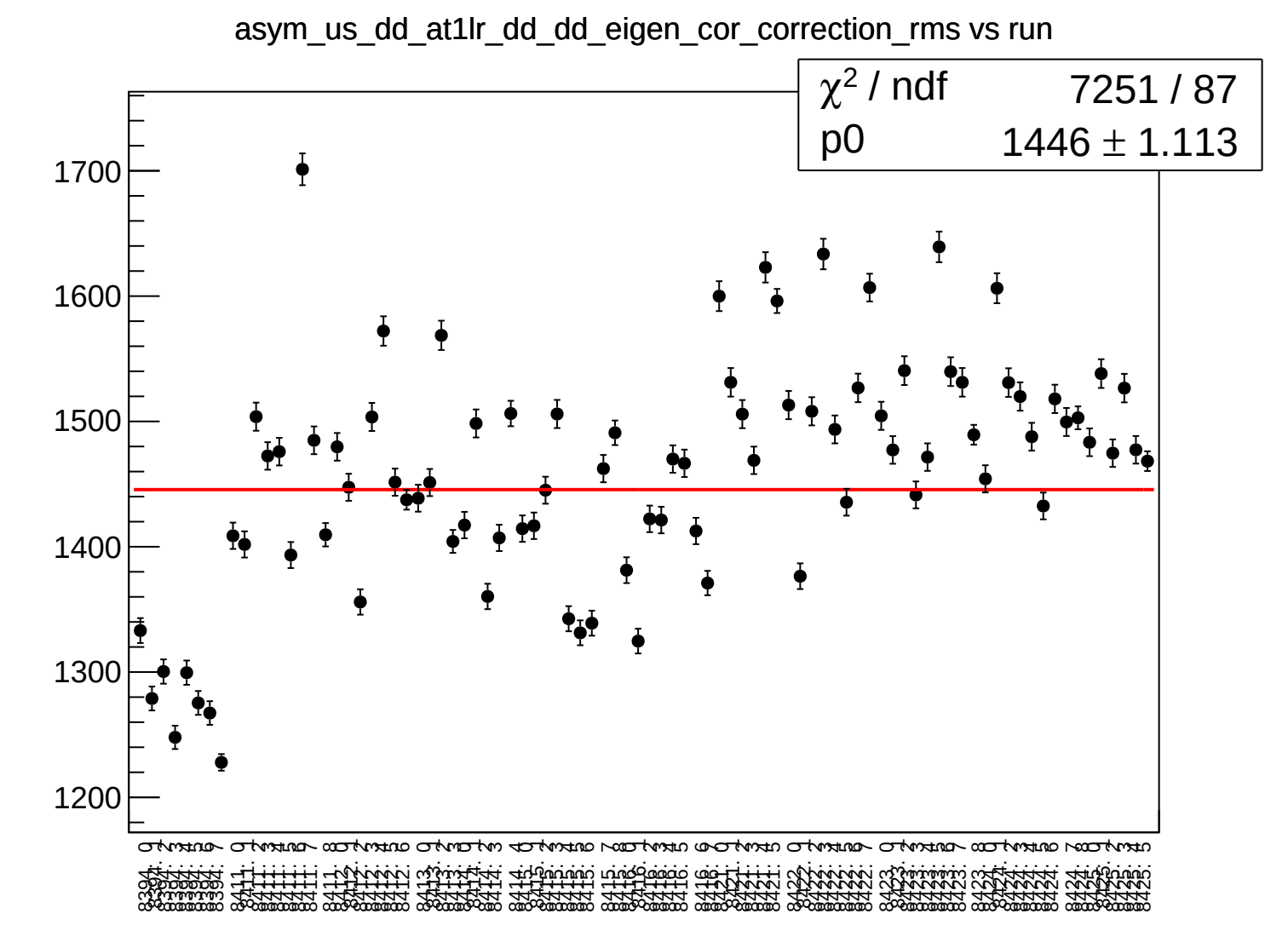

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 7251 / 87
p0 1446 ± 1.113
1700
1600
1500
1400
1300
1200

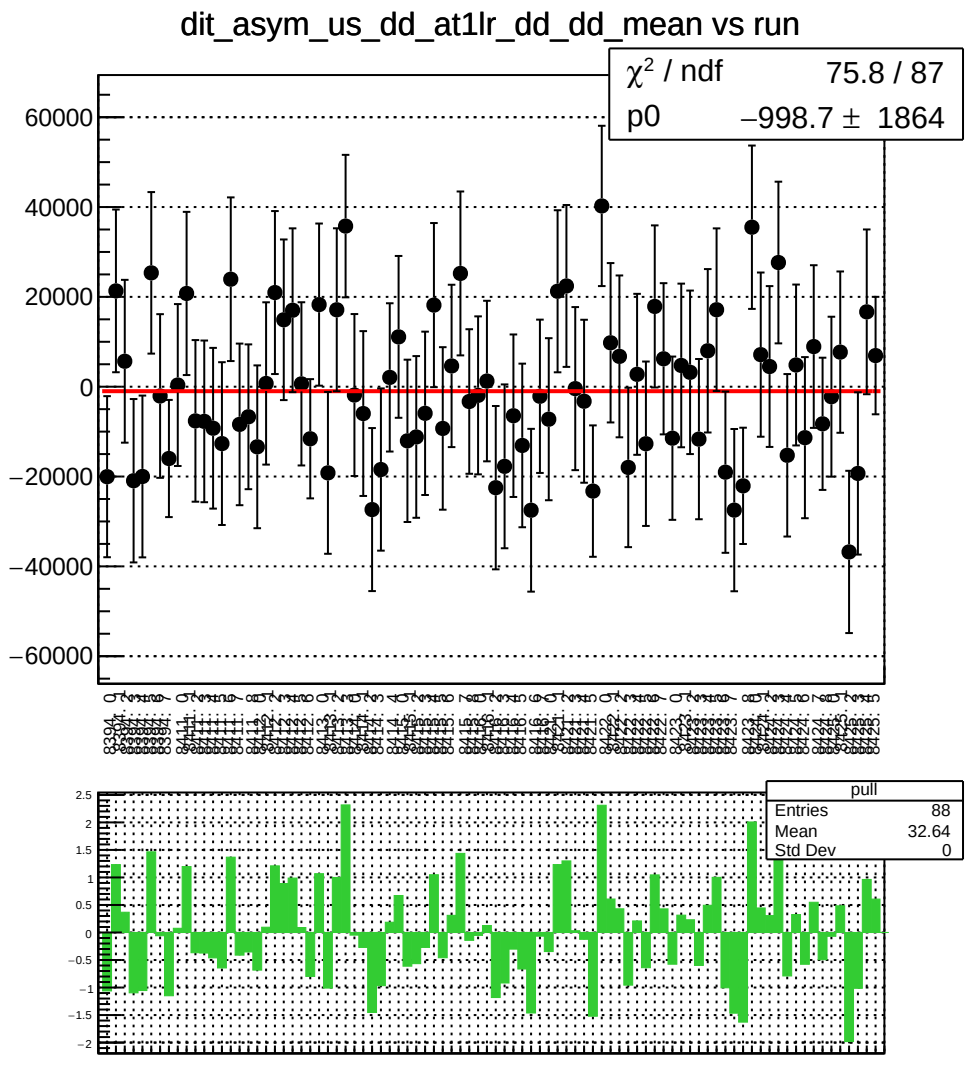

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 75.74 / 87
p0 −988.2 ± 1863
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 41.47
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

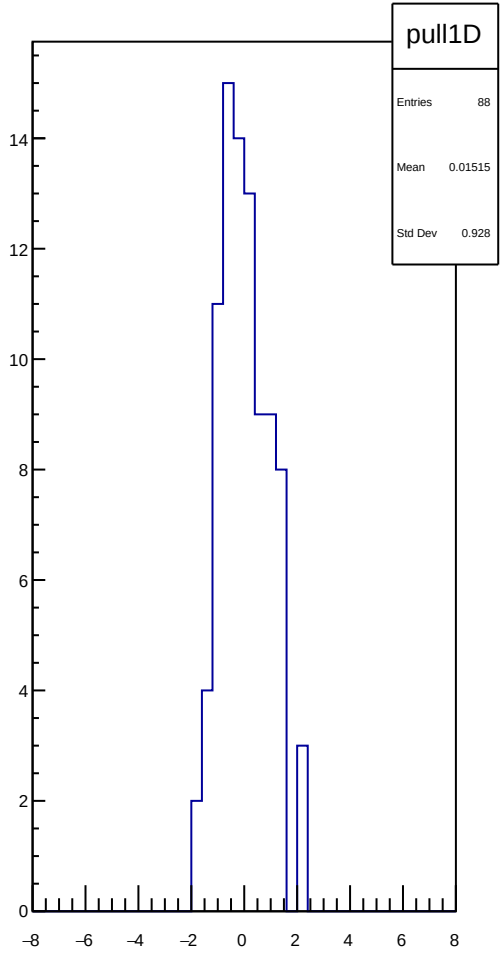

pull1D
Entries 88
Mean 0.01501
Std Dev 0.9276
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

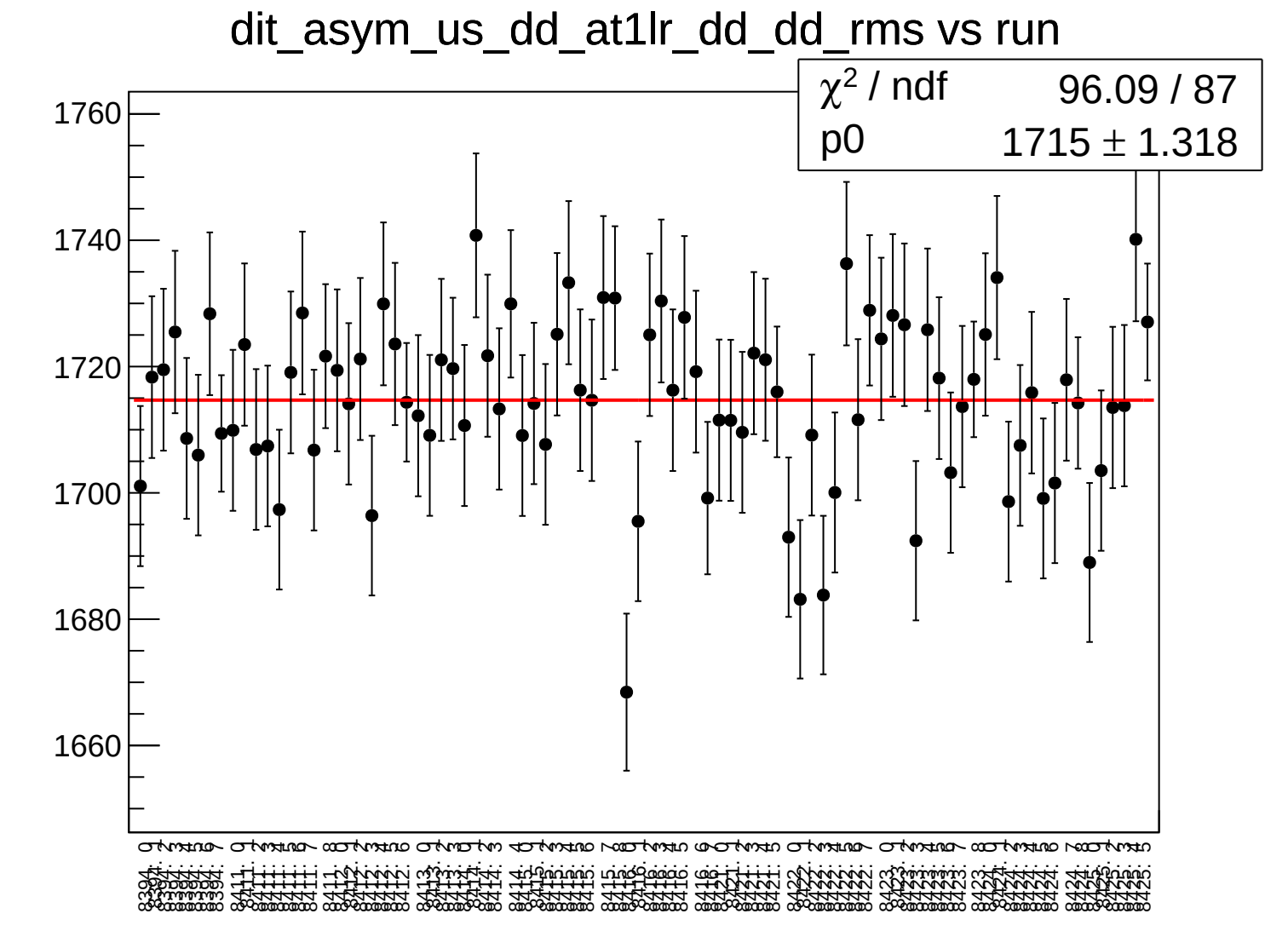

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 97.36 / 87
p0 1714 ± 1.317
1760
1740
1720
1700
1680
1660

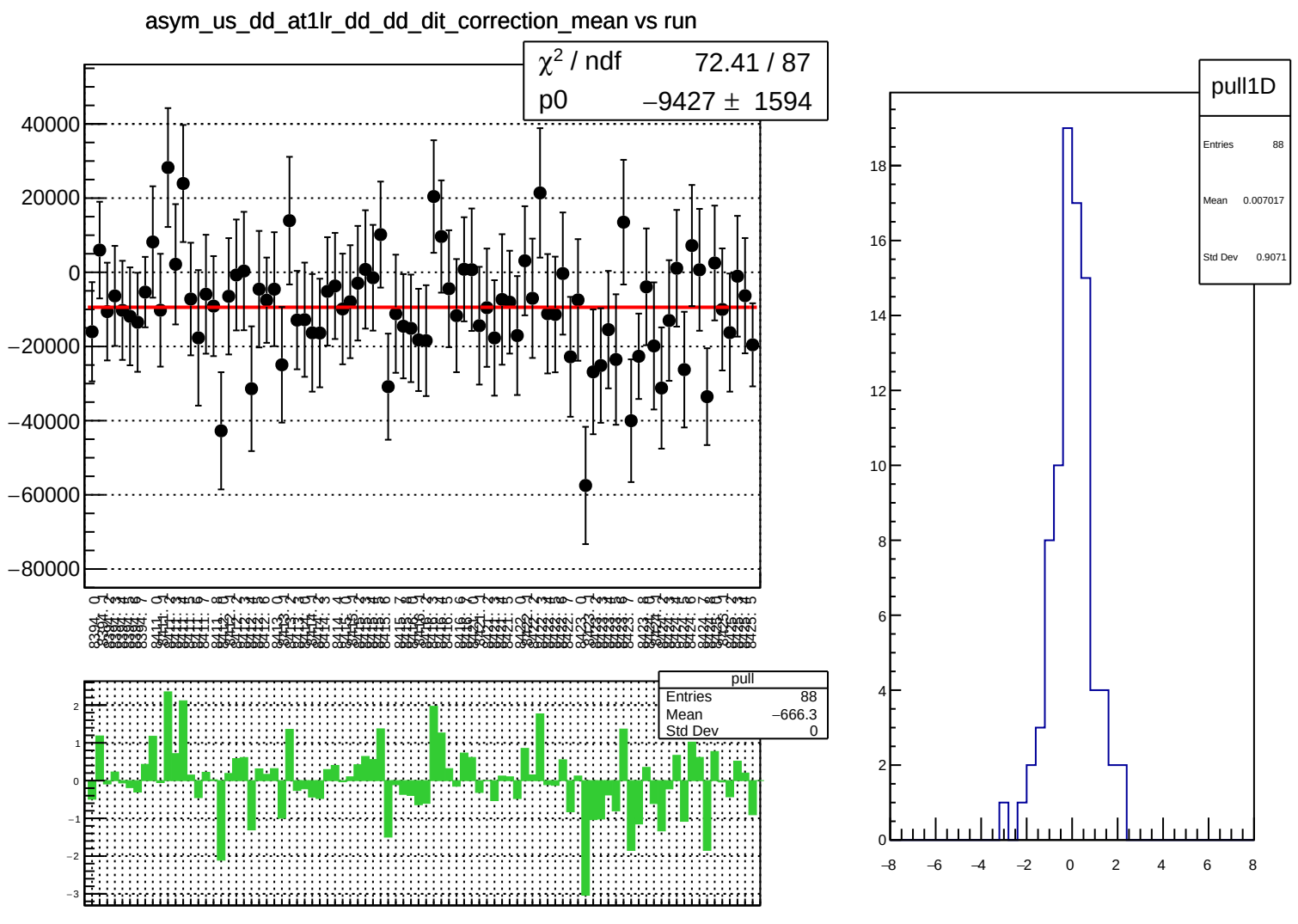

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 72.2 / 87
p0 −9428 ± 1575
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −629.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.00733
Std Dev 0.9058
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

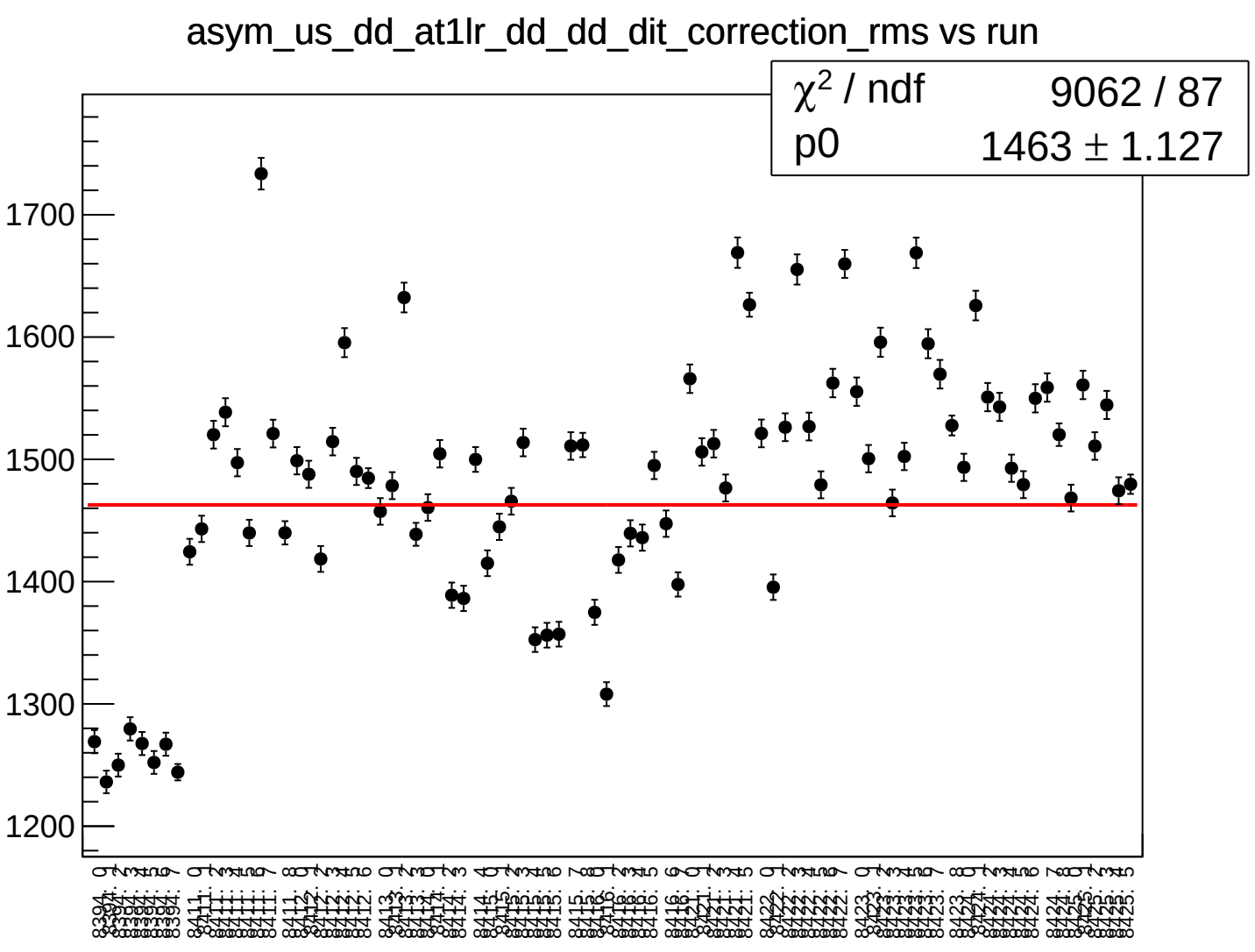

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 7251 / 87
p0 1446 ± 1.113
1700
1600
1500
1400
1300
1200

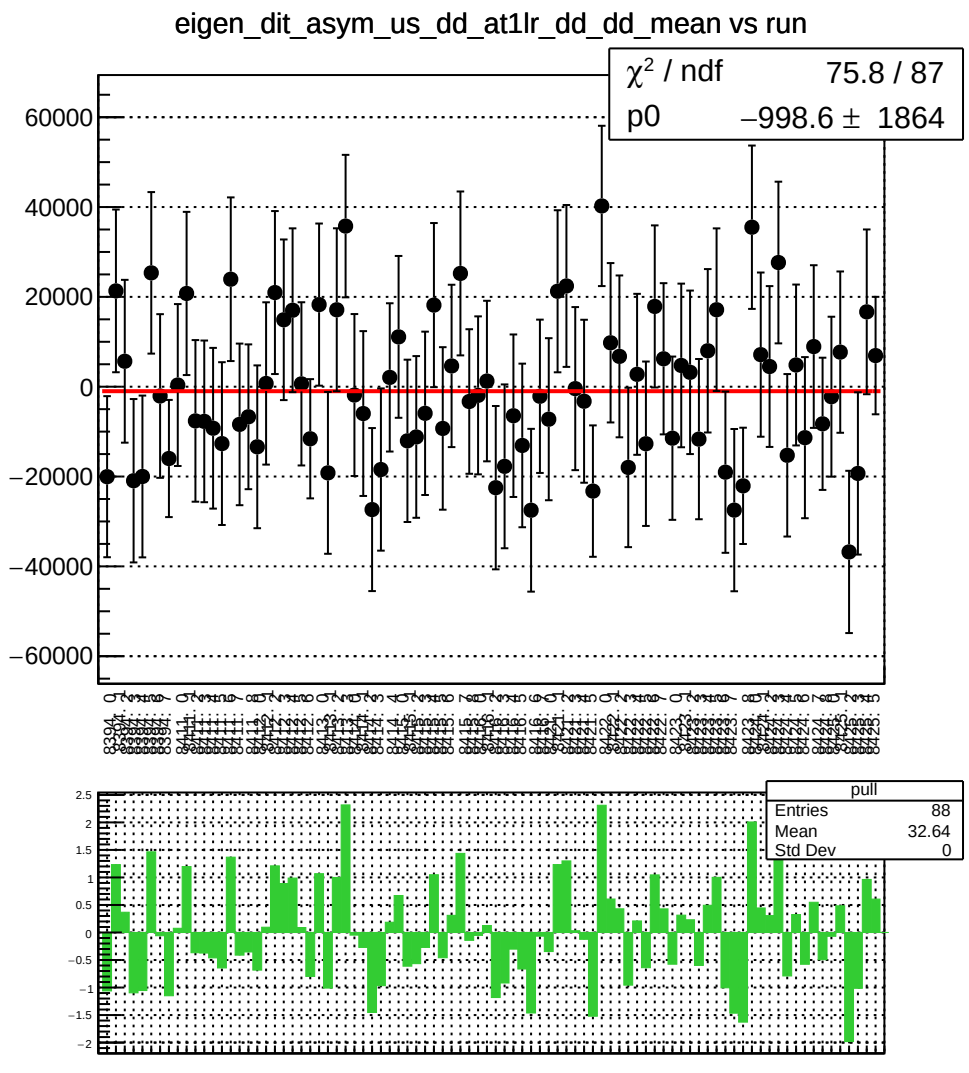

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 75.8 / 87
p0 −998.7 ± 1864
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 32.64
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

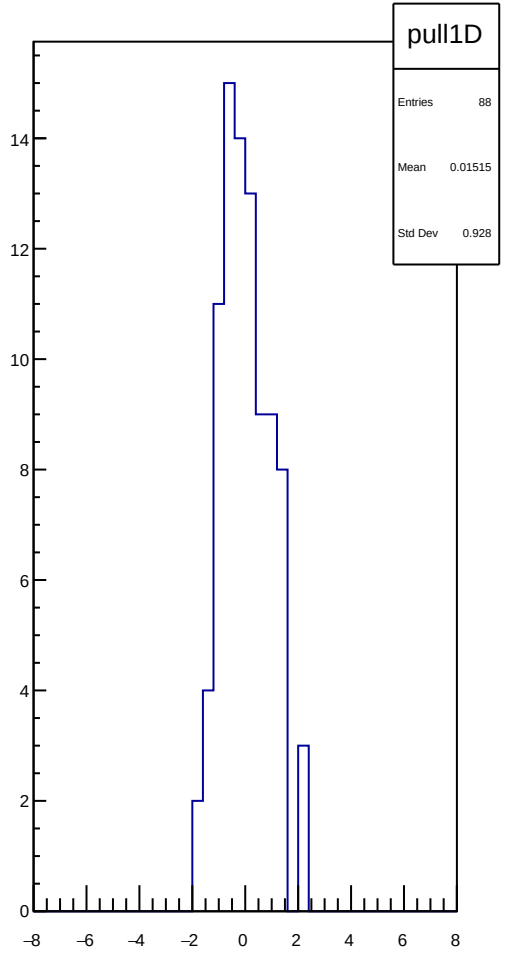

pull1D
Entries 88
Mean 0.01515
Std Dev 0.928
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

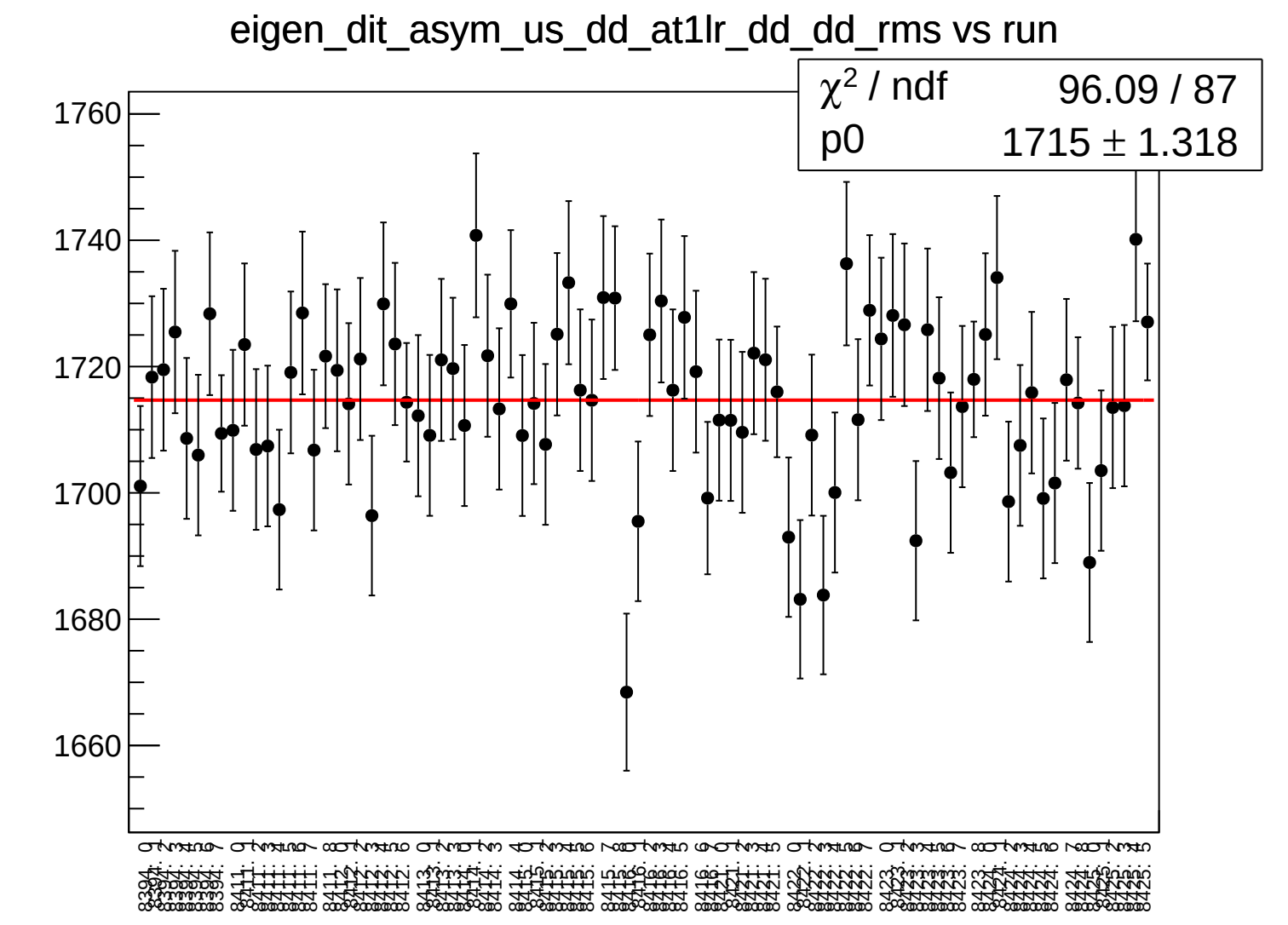

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 96.09 / 87
p0 1715 ± 1.318
1760
1740
1720
1700
1680
1660

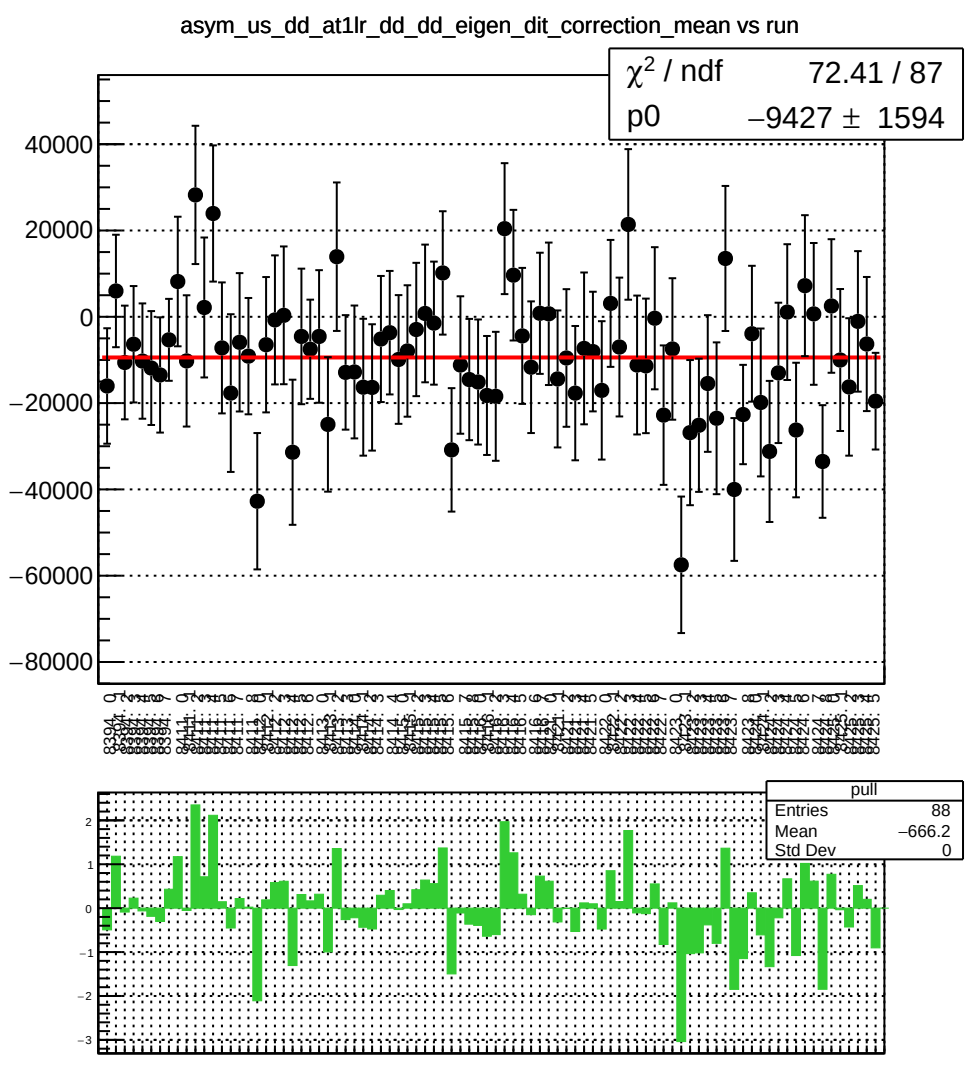

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 72.41 / 87
p0 −9427 ± 1594
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −666.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.007017
Std Dev 0.9071
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

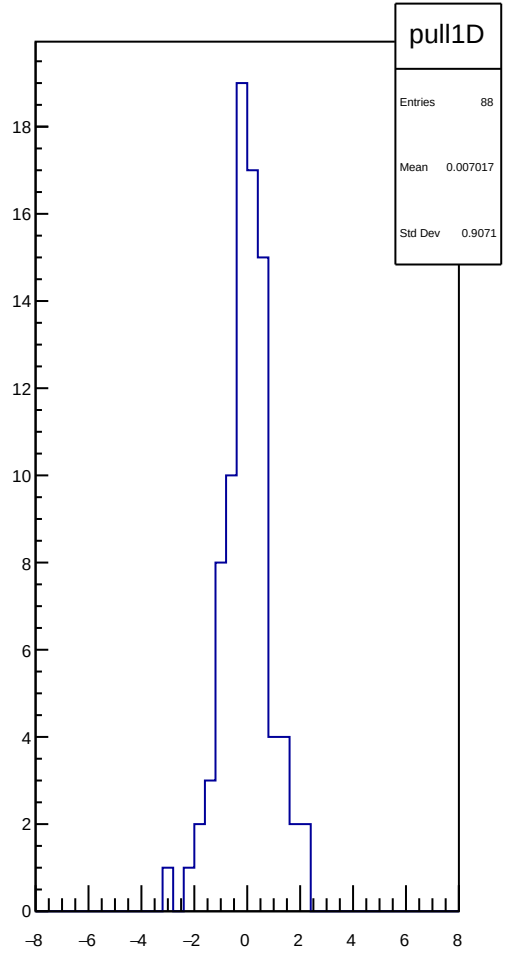

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 9062 / 87
p0 1463 ± 1.127
1700
1600
1500
1400
1300
1200

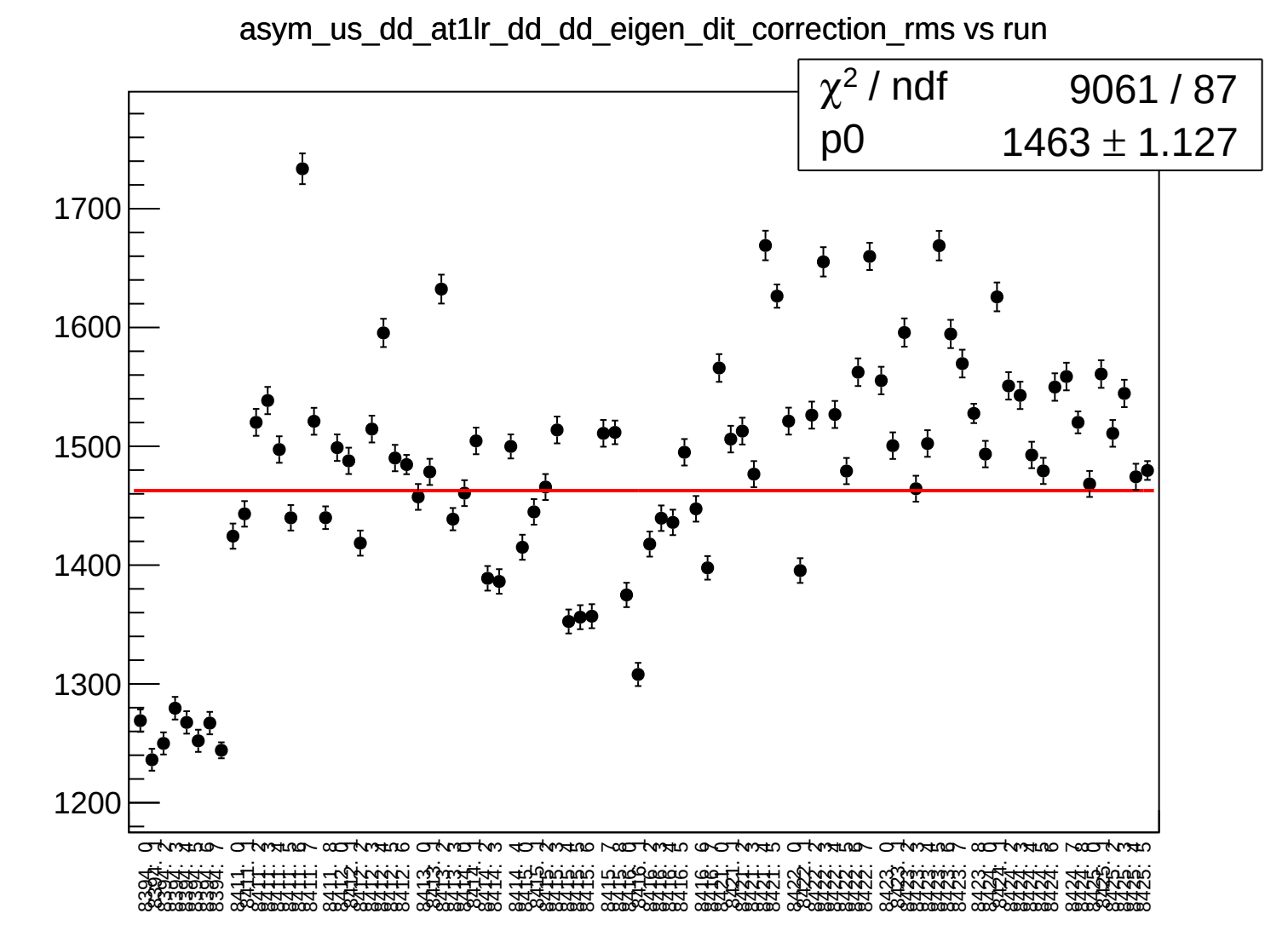

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 75.8 / 87
p0 −998.6 ± 1864
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 32.64
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

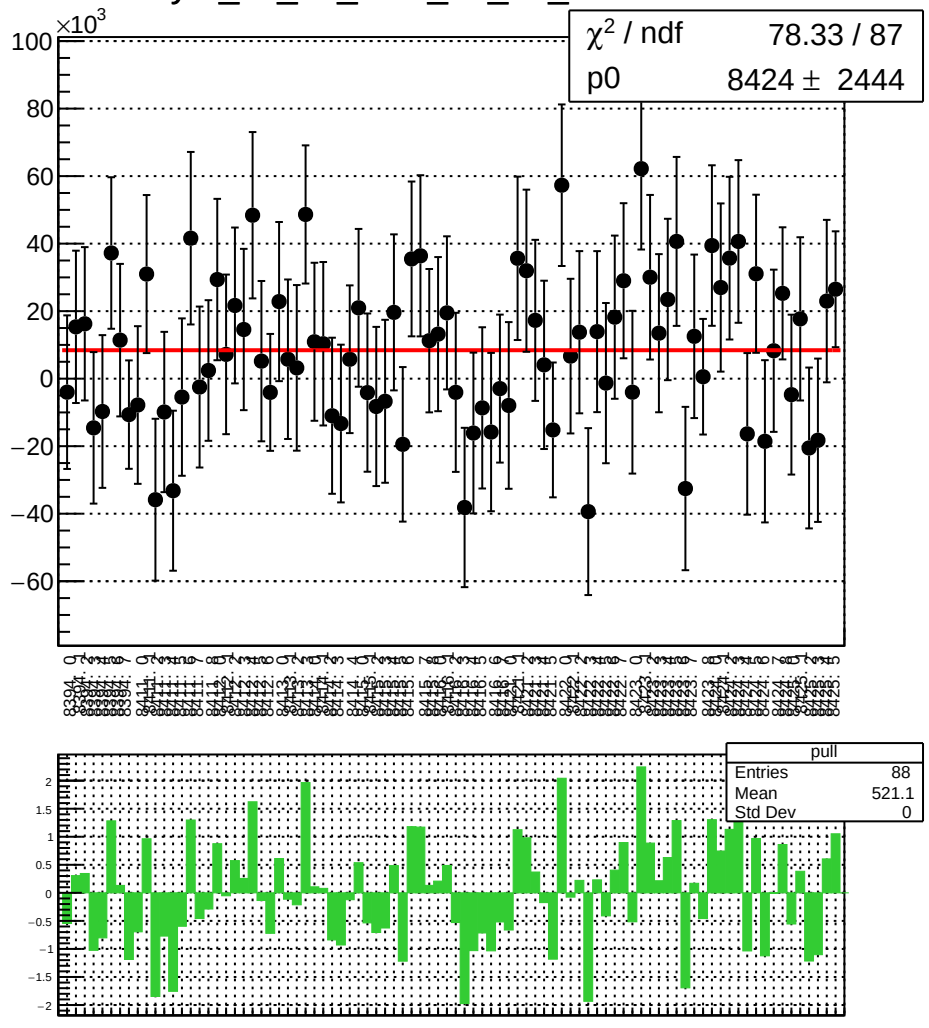

pull1D
Entries 88
Mean 0.01515
Std Dev 0.928
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

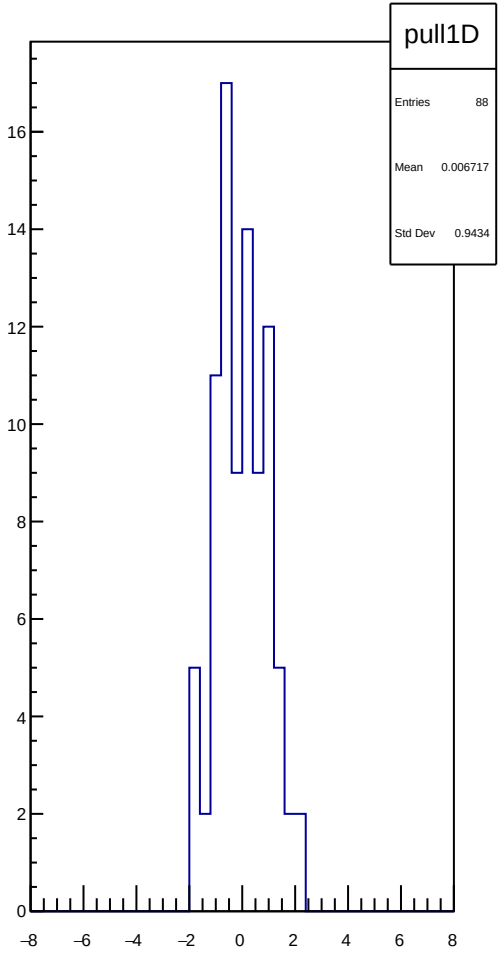

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 96.09 / 87
p0 1715 ± 1.318
1760
1740
1720
1700
1680
1660

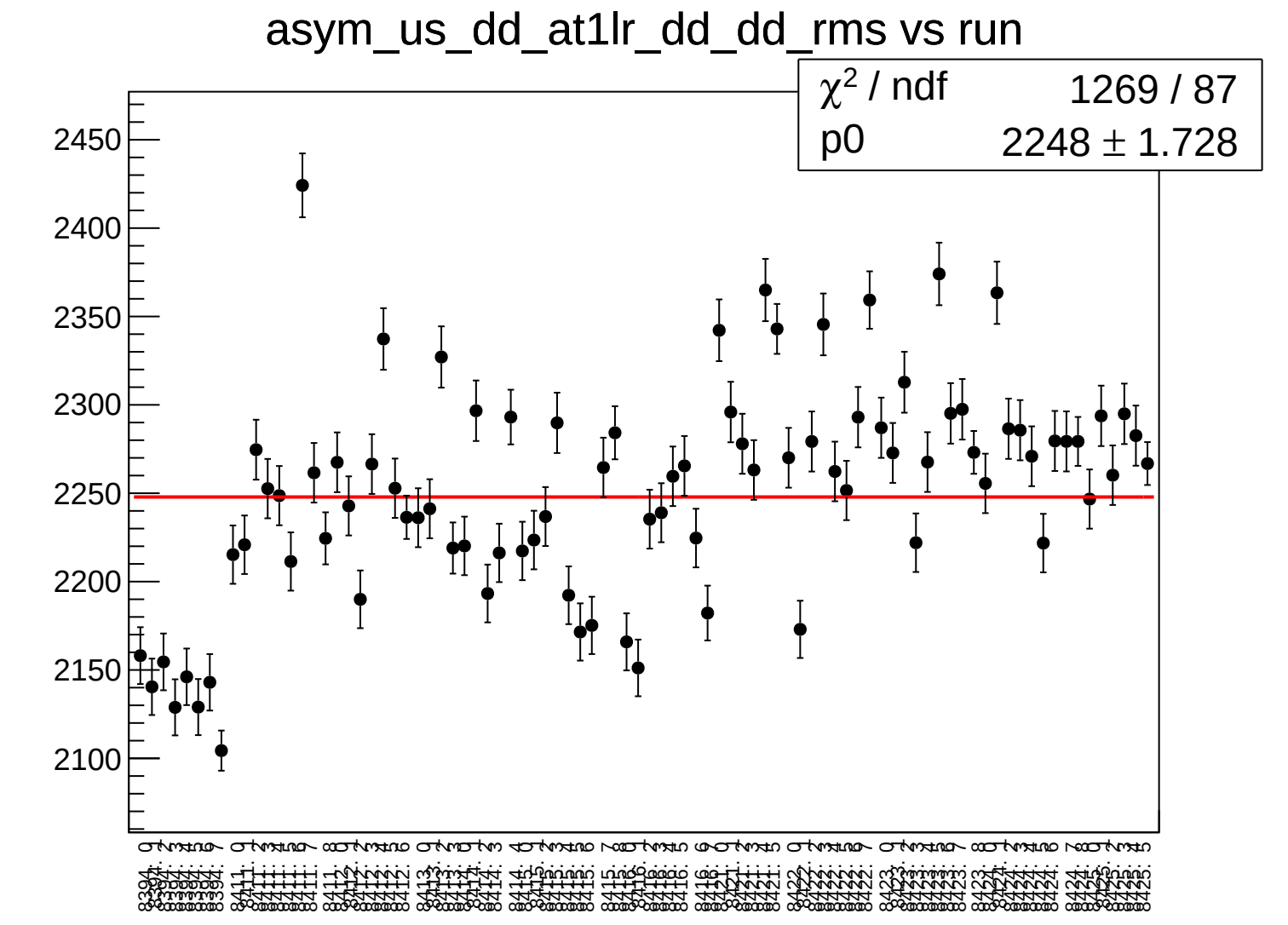

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 72.41 / 87
p0 −9427 ± 1594
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −666.2
Std Dev 0
2
1
0
−1
−2
−3

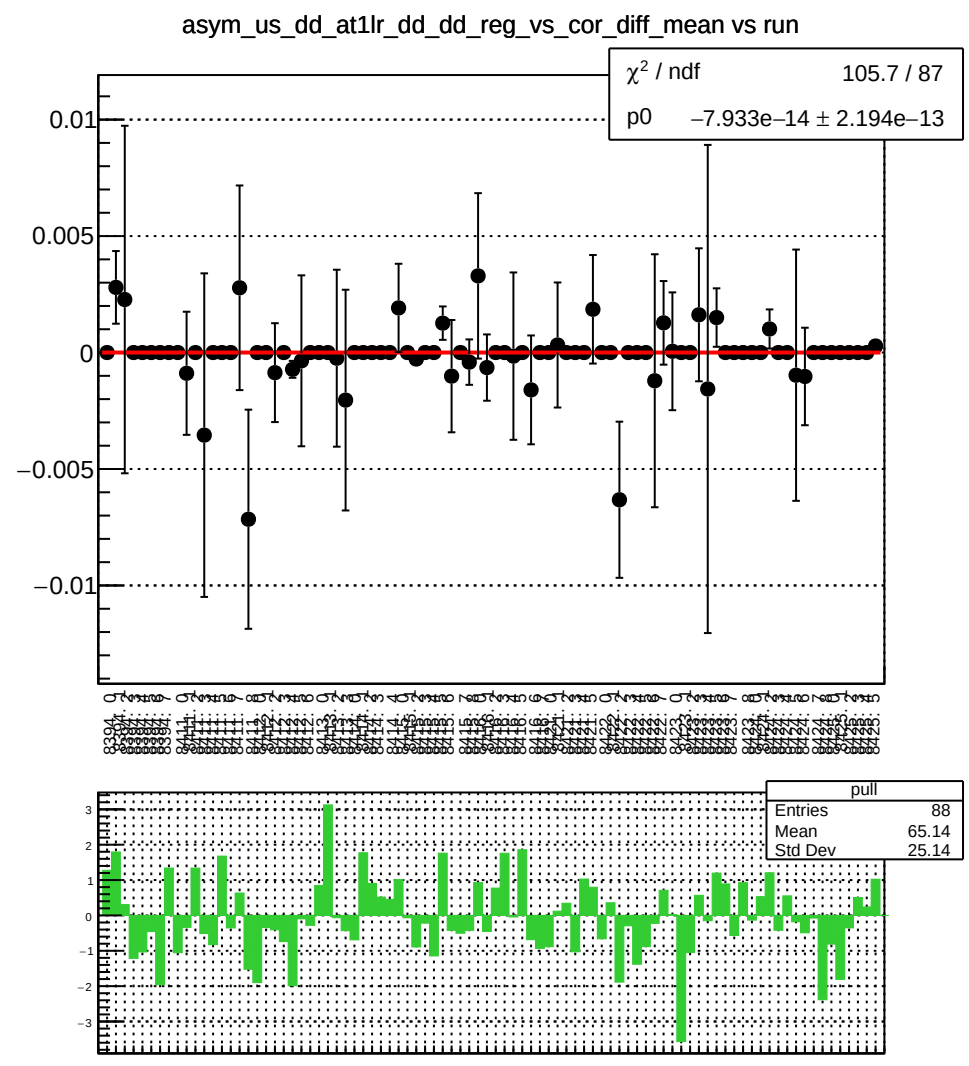

pull1D
Entries 88
Mean 0.007017
Std Dev 0.9071
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

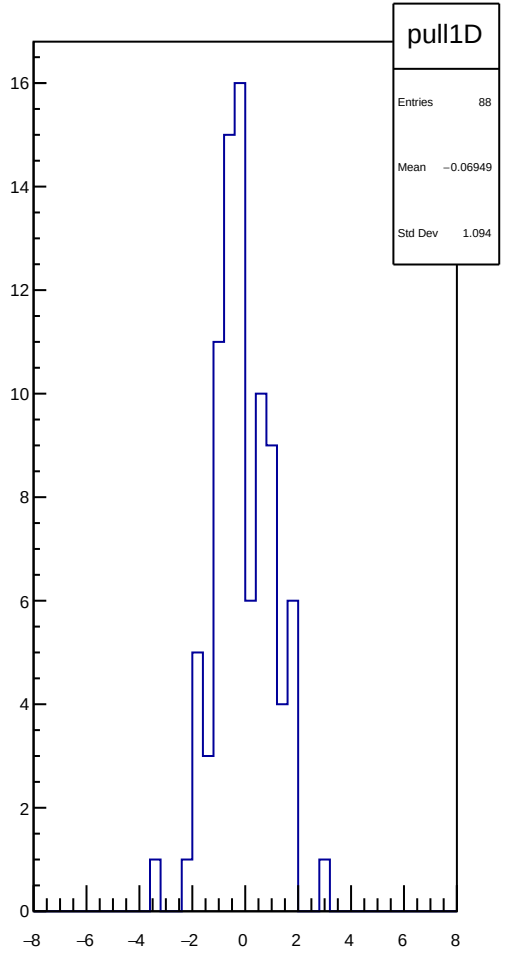

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 9061 / 87
p0 1463 ± 1.127
1700
1600
1500
1400
1300
1200

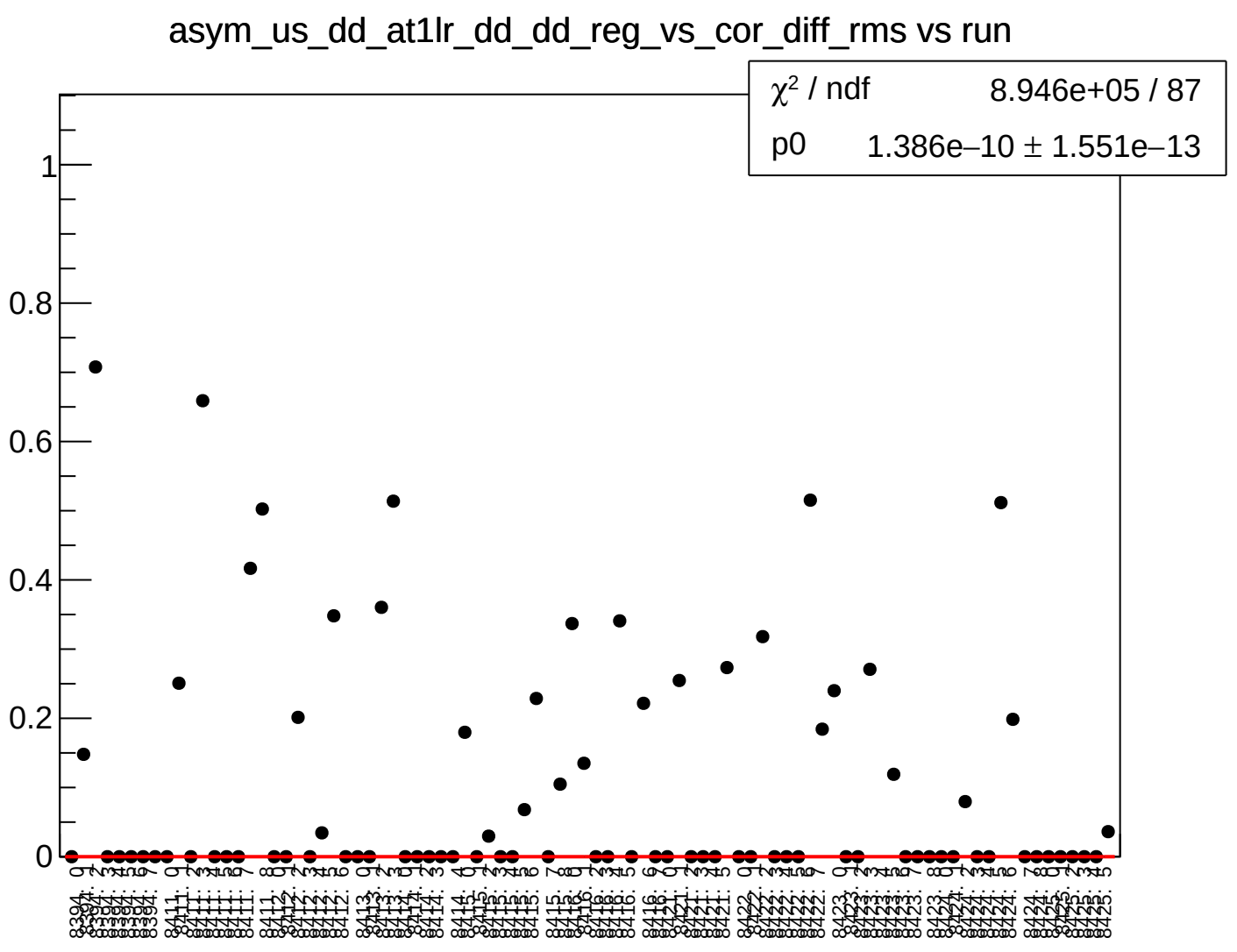

asym_us_dd_at1lr_dd_dd_mean vs run
×10^3
χ² / ndf 78.33 / 87
p0 8424 ± 2444
pull
Entries 88
Mean 521.1
Std Dev 0

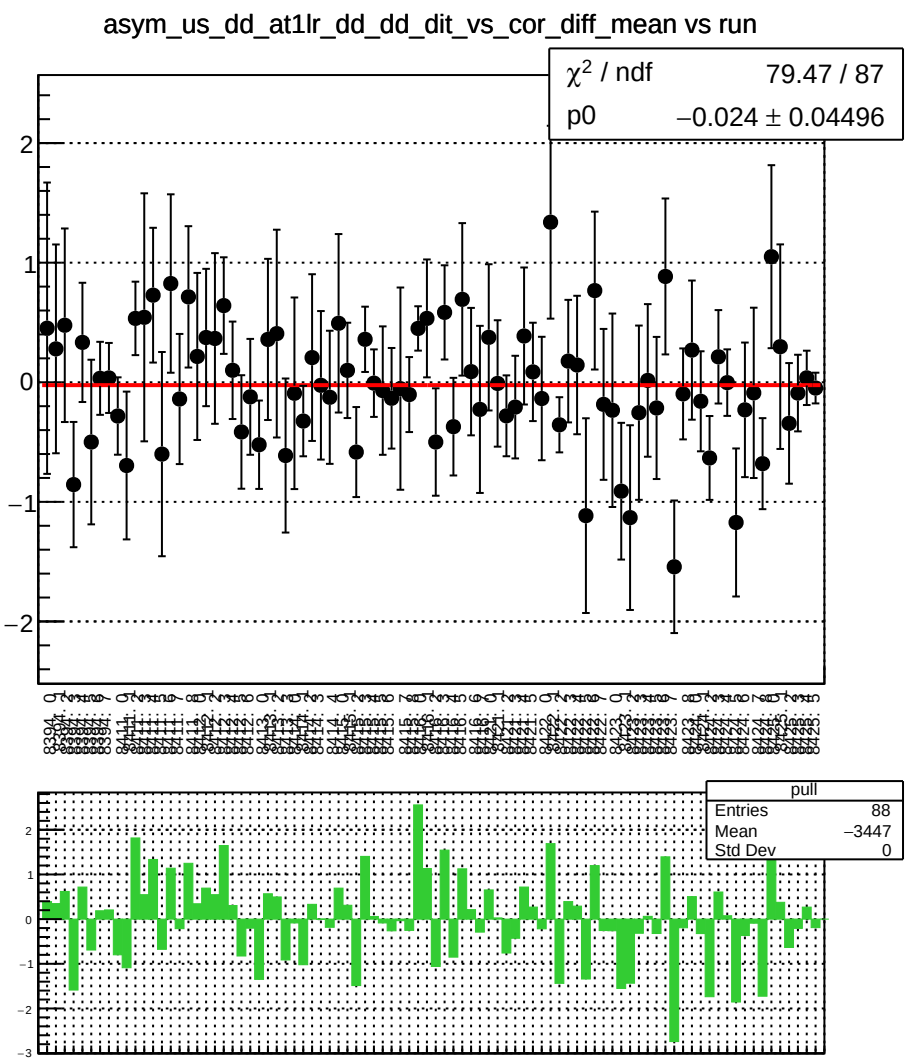

pull1D
Entries 88
Mean 0.006717
Std Dev 0.9434

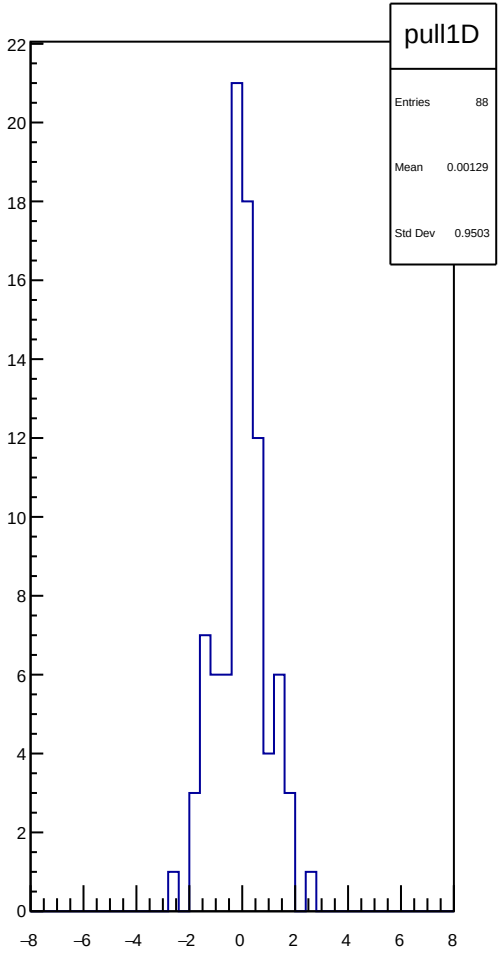

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 1269 / 87
p0 2248 ± 1.728
2450
2400
2350
2300
2250
2200
2150
2100

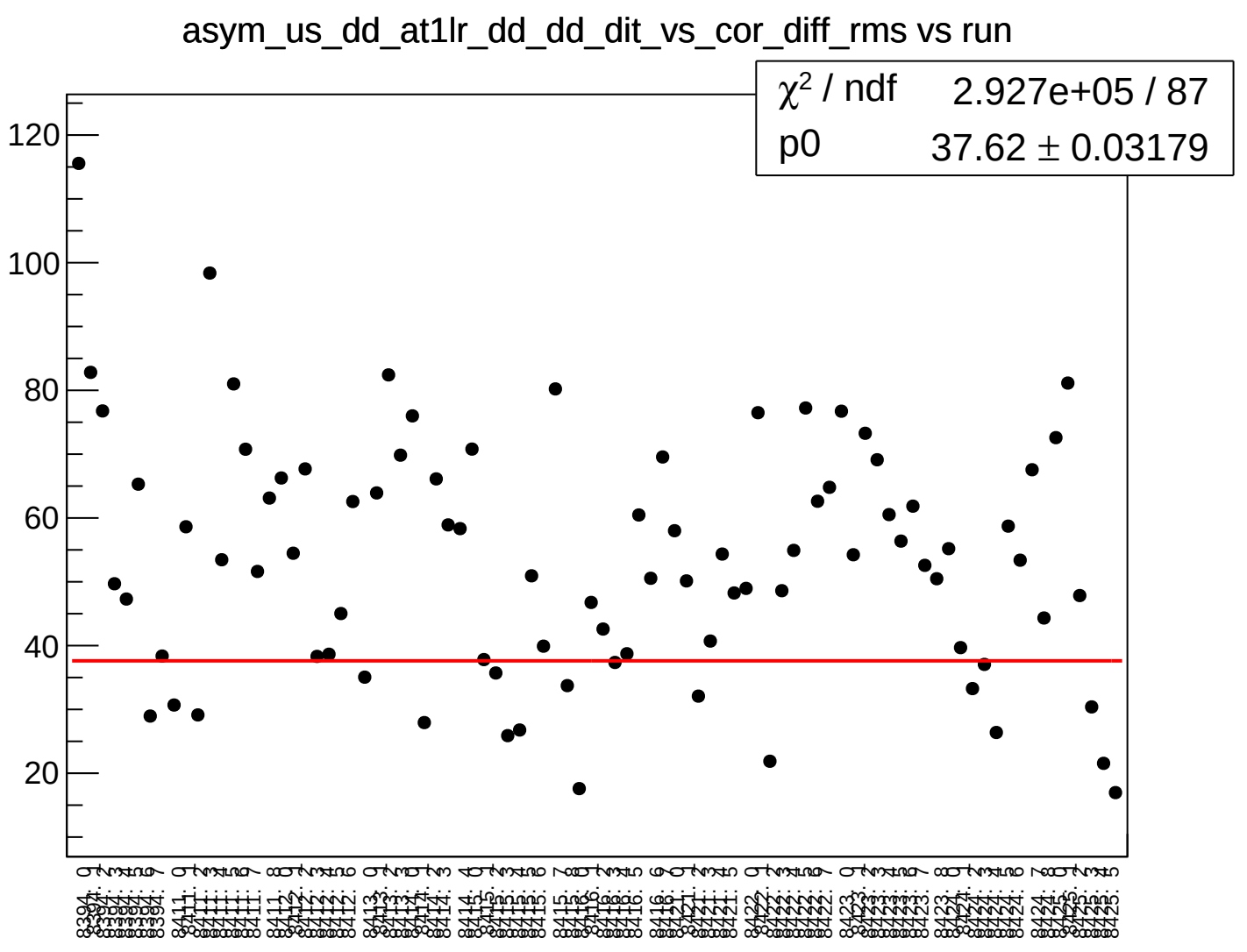

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 105.7 / 87
p0 −7.933e−14 ± 2.194e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 88
Mean 65.14
Std Dev 25.14
3
2
1
0
−1
−2
−3

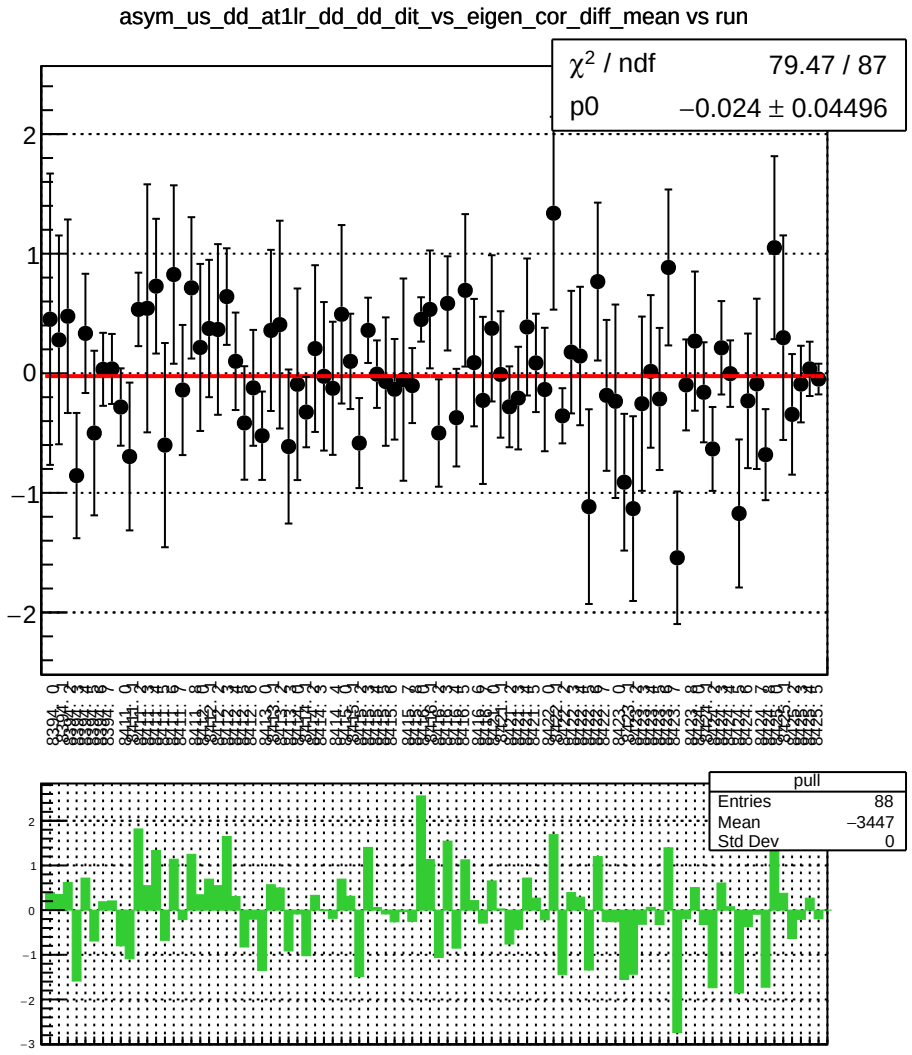

pull1D
Entries 88
Mean −0.06949
Std Dev 1.094
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

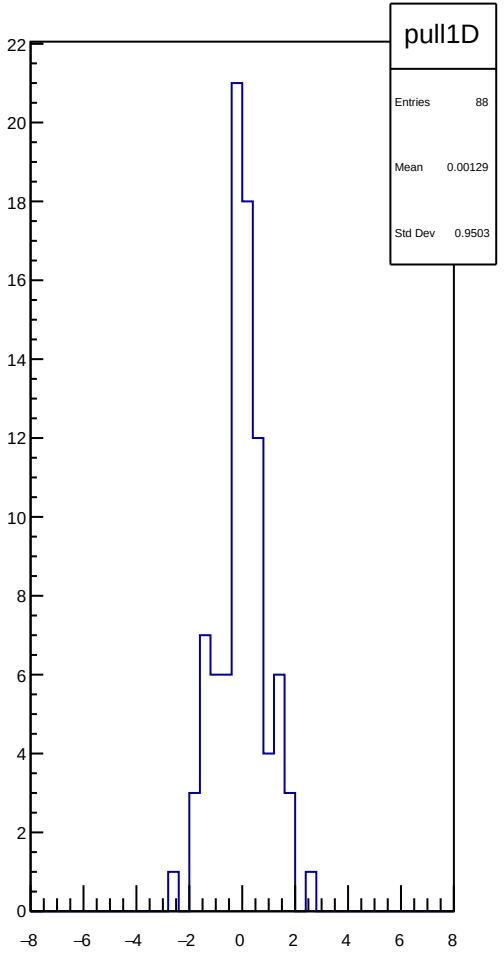

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.946e+05 / 87
p0 1.386e−10 ± 1.551e−13
1
0.8
0.6
0.4
0.2
0

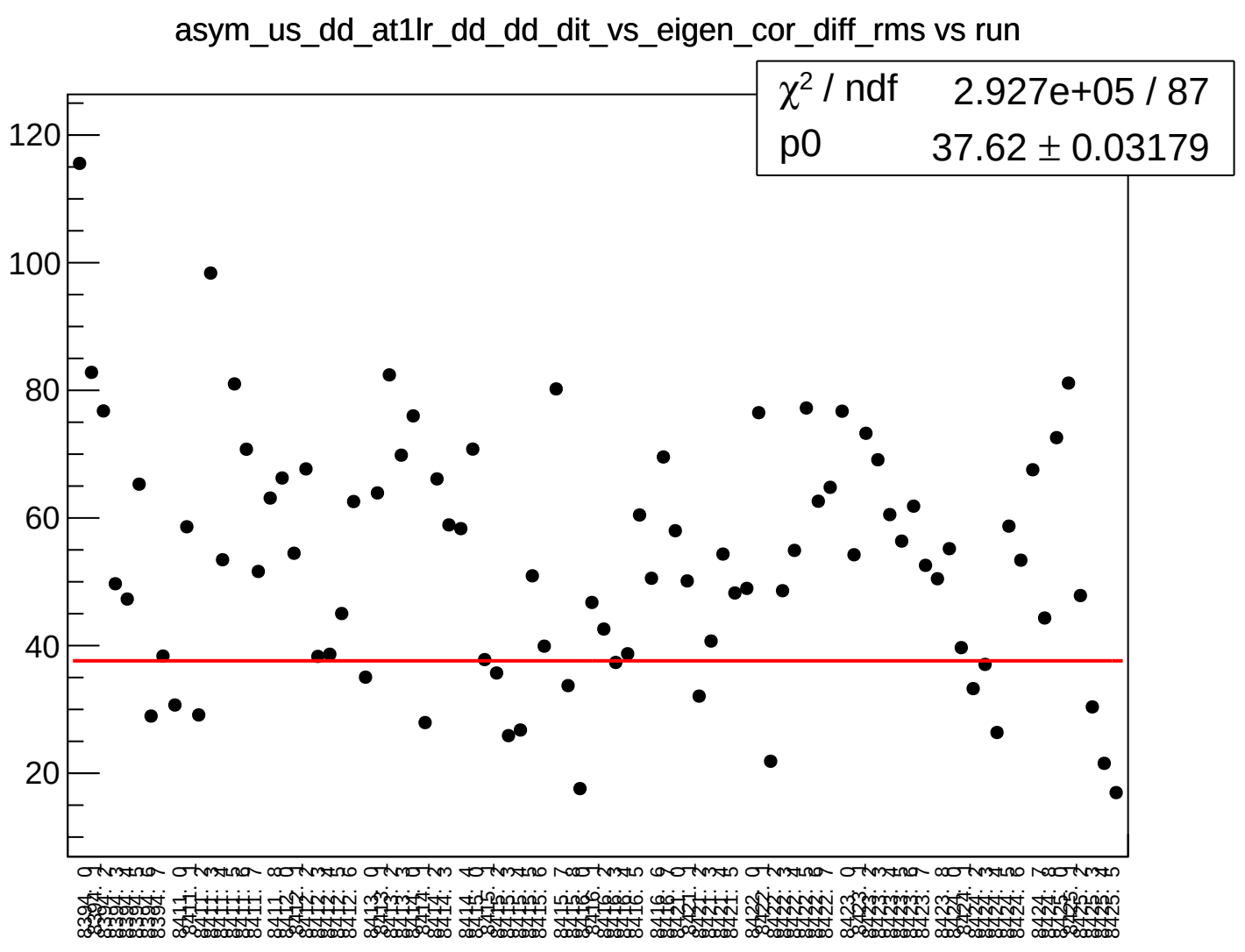

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 79.47 / 87
p0 −0.024 ± 0.04496
pull
Entries 88
Mean −3447
Std Dev 0

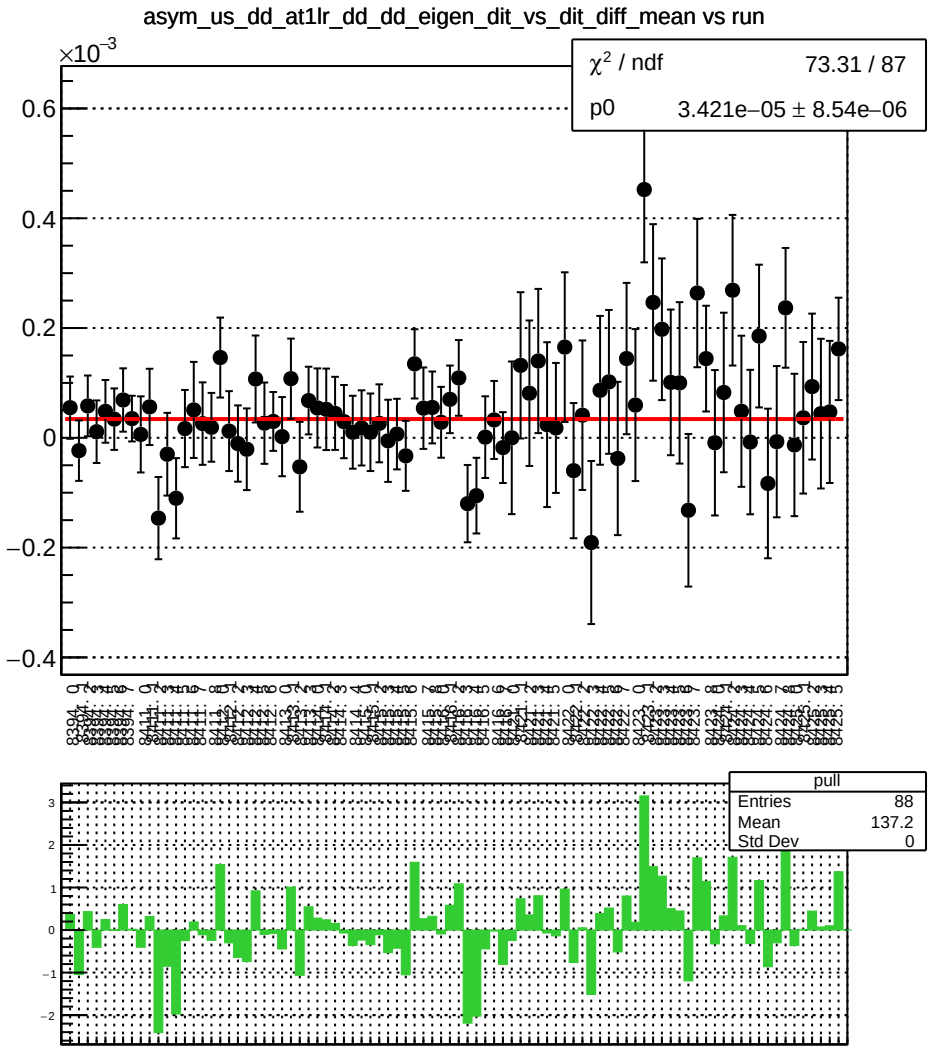

pull1D
Entries 88
Mean 0.00129
Std Dev 0.9503

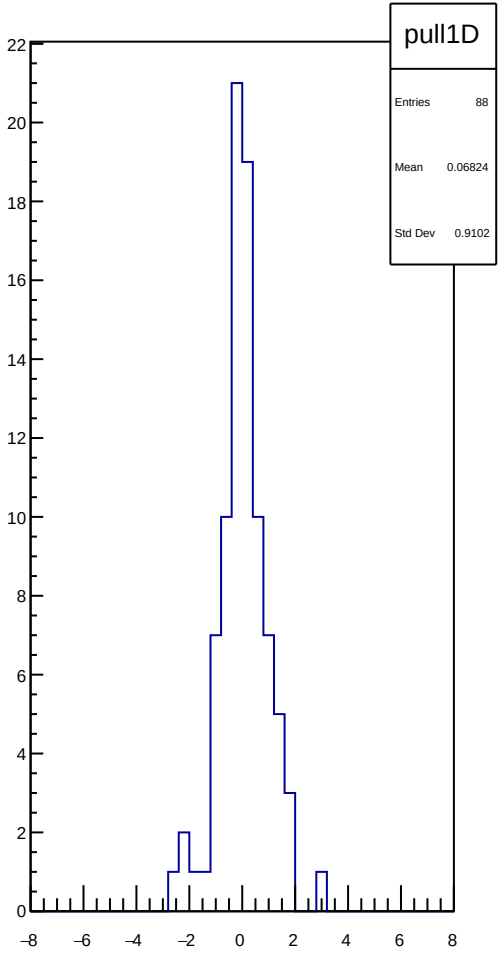

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.927e+05 / 87
p0 37.62 ± 0.03179
120
100
80
60
40
20

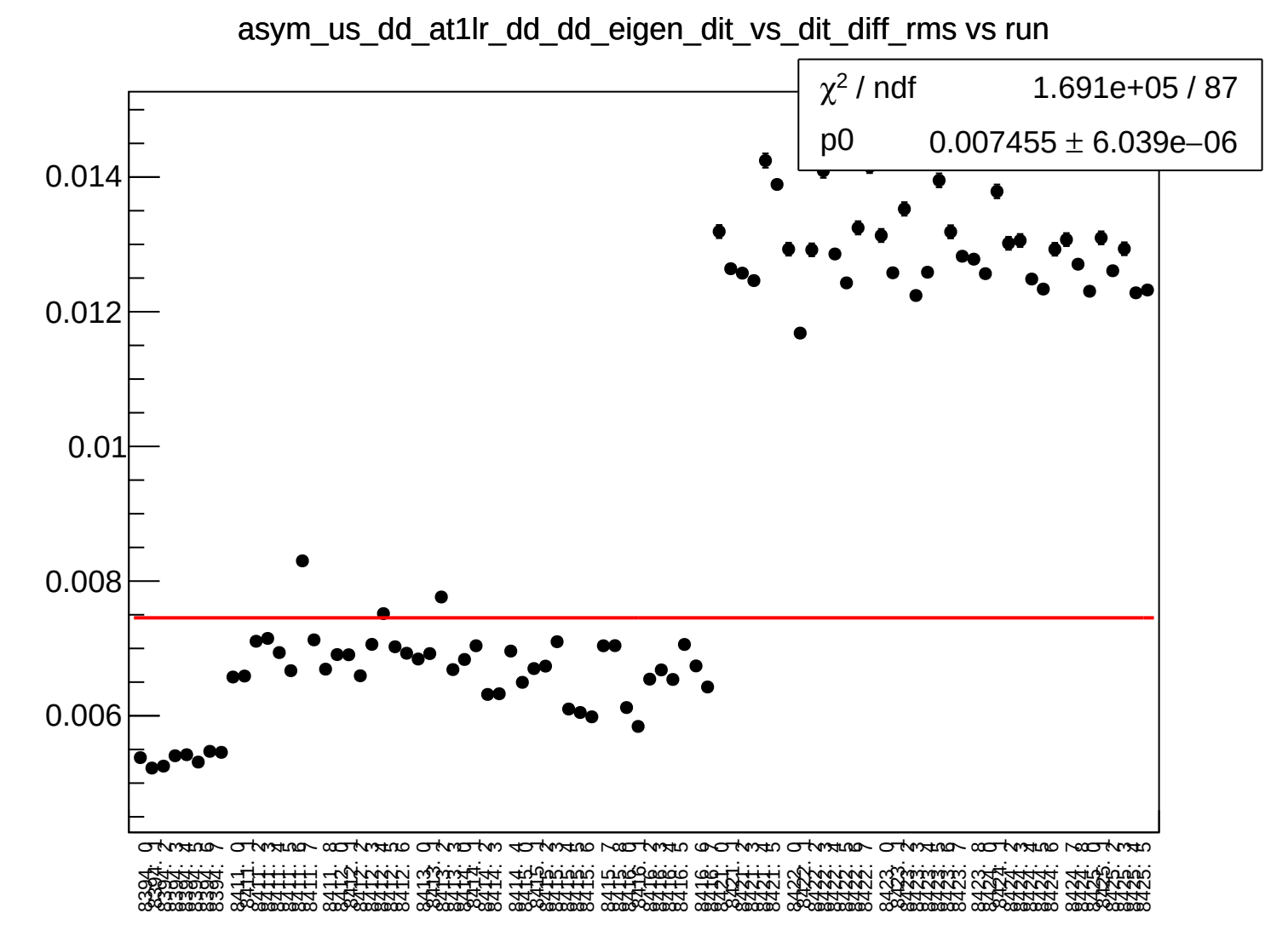

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.47 / 87
p0 −0.024 ± 0.04496
pull
Entries 88
Mean −3447
Std Dev 0

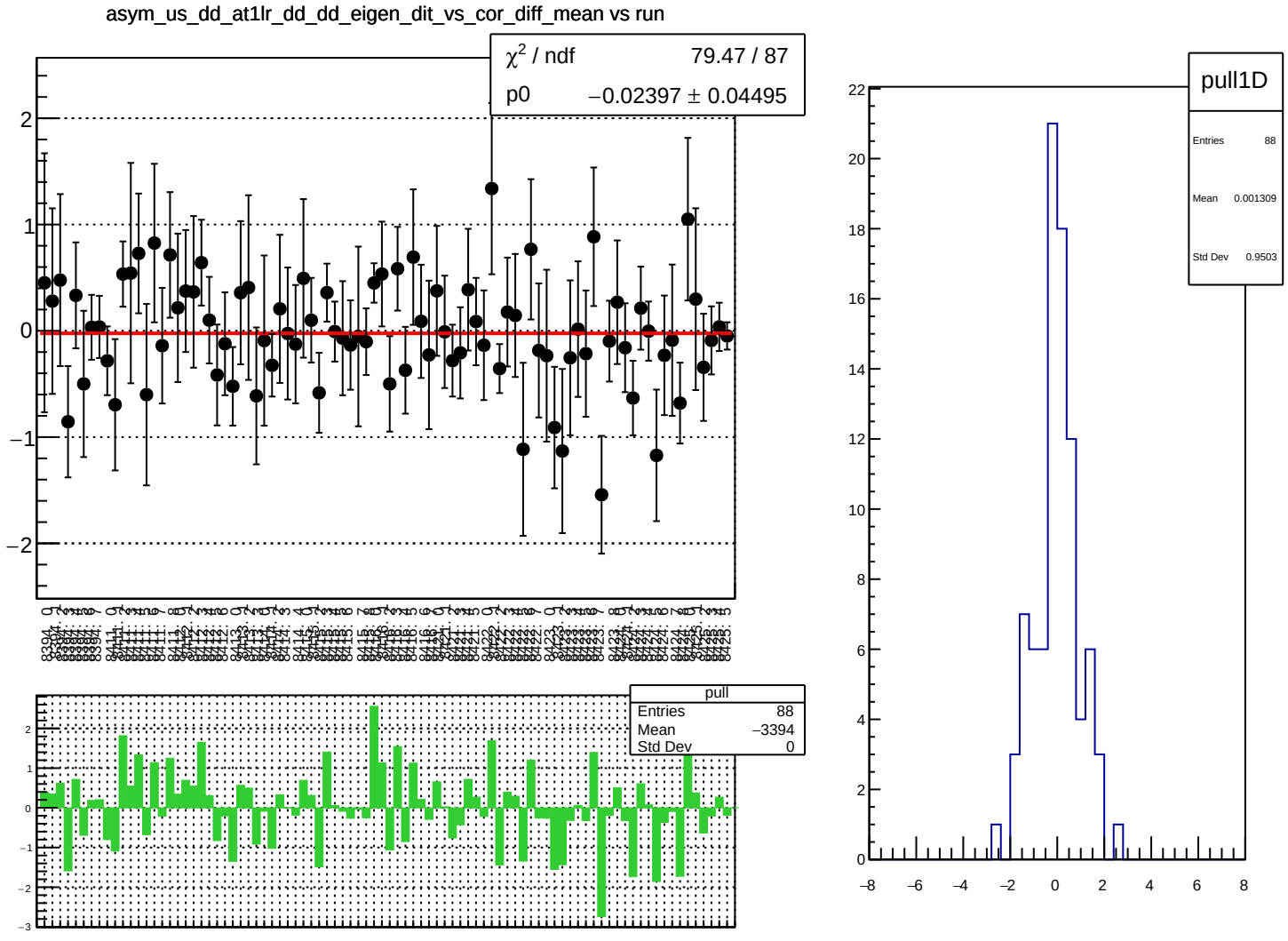

pull1D
Entries 88
Mean 0.00129
Std Dev 0.9503

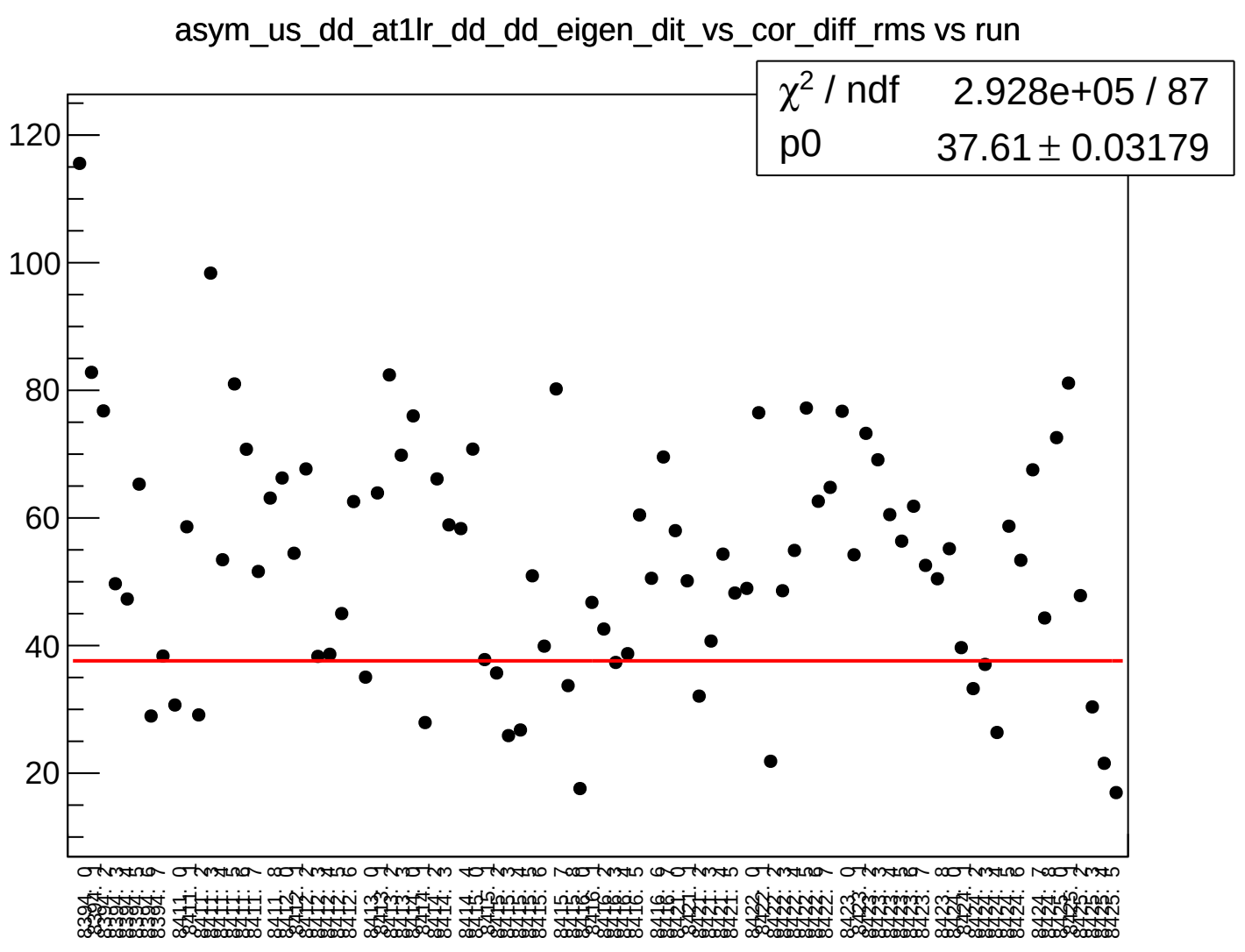

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.927e+05 / 87
p0 37.62 ± 0.03179
120
100
80
60
40
20

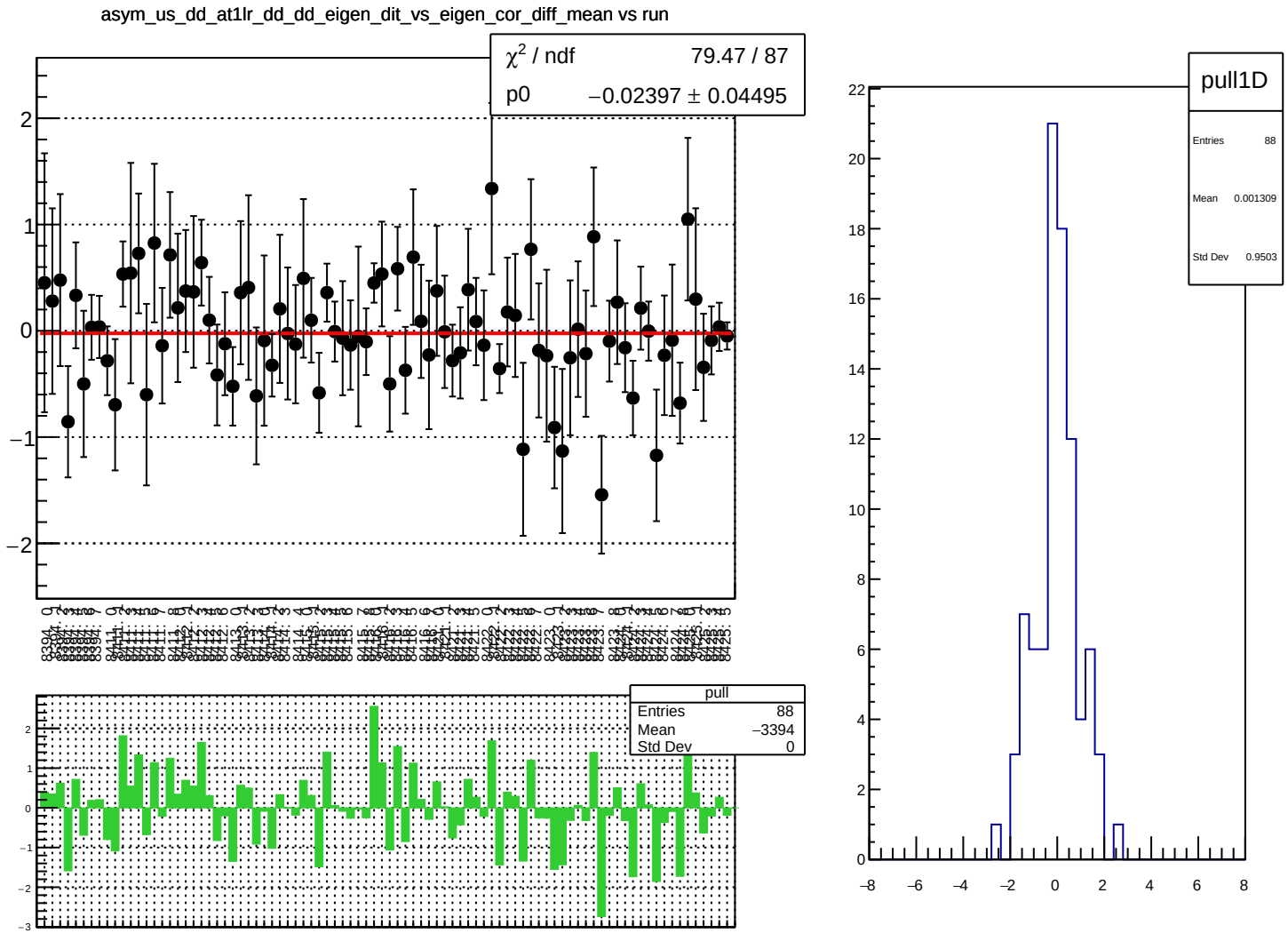

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.31 / 87
p0 3.421e−05 ± 8.54e−06
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 88
Mean 137.2
Std Dev 0
3
2
1
0
−1
−2

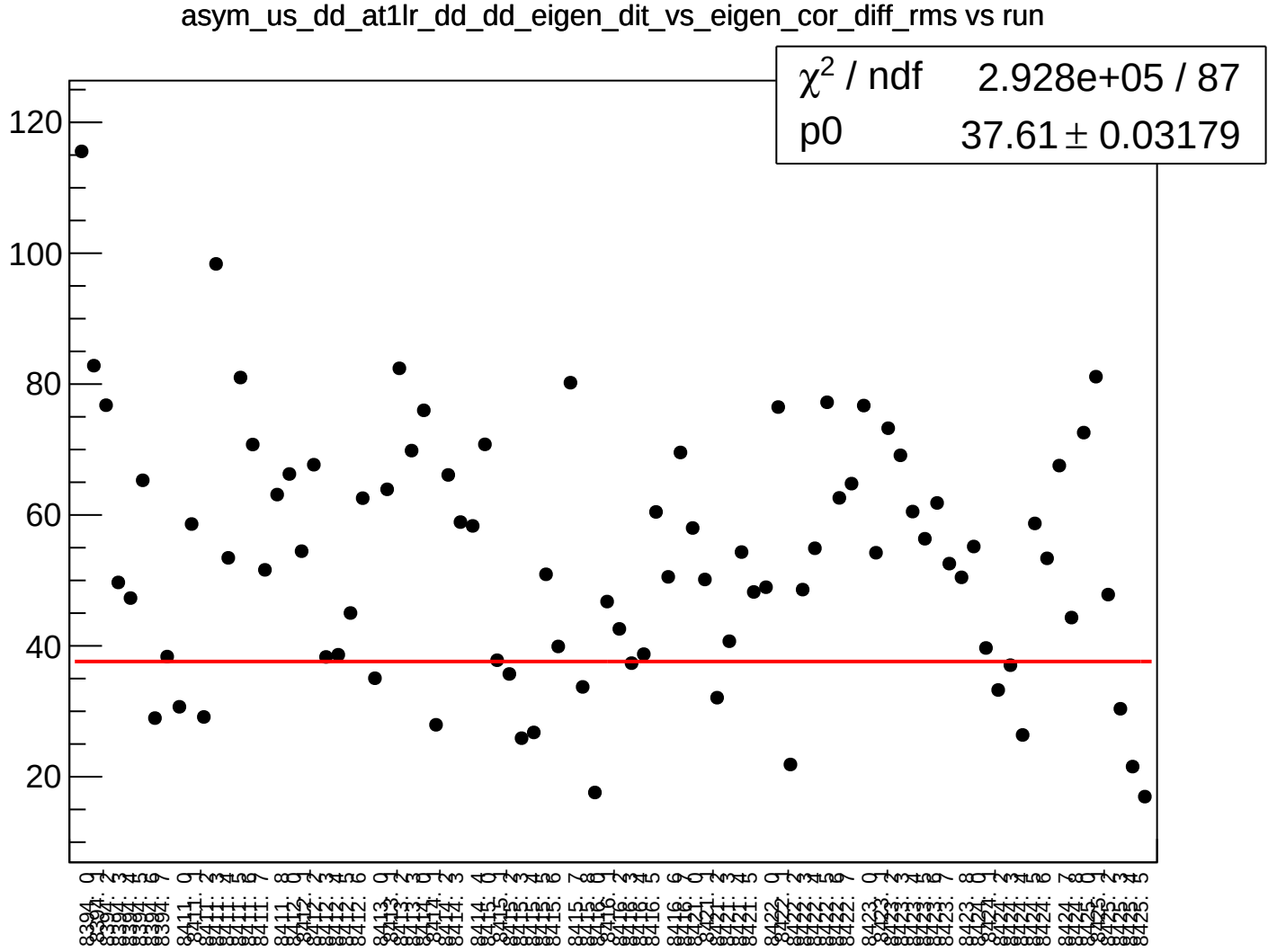

pull1D
Entries 88
Mean 0.06824
Std Dev 0.9102
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

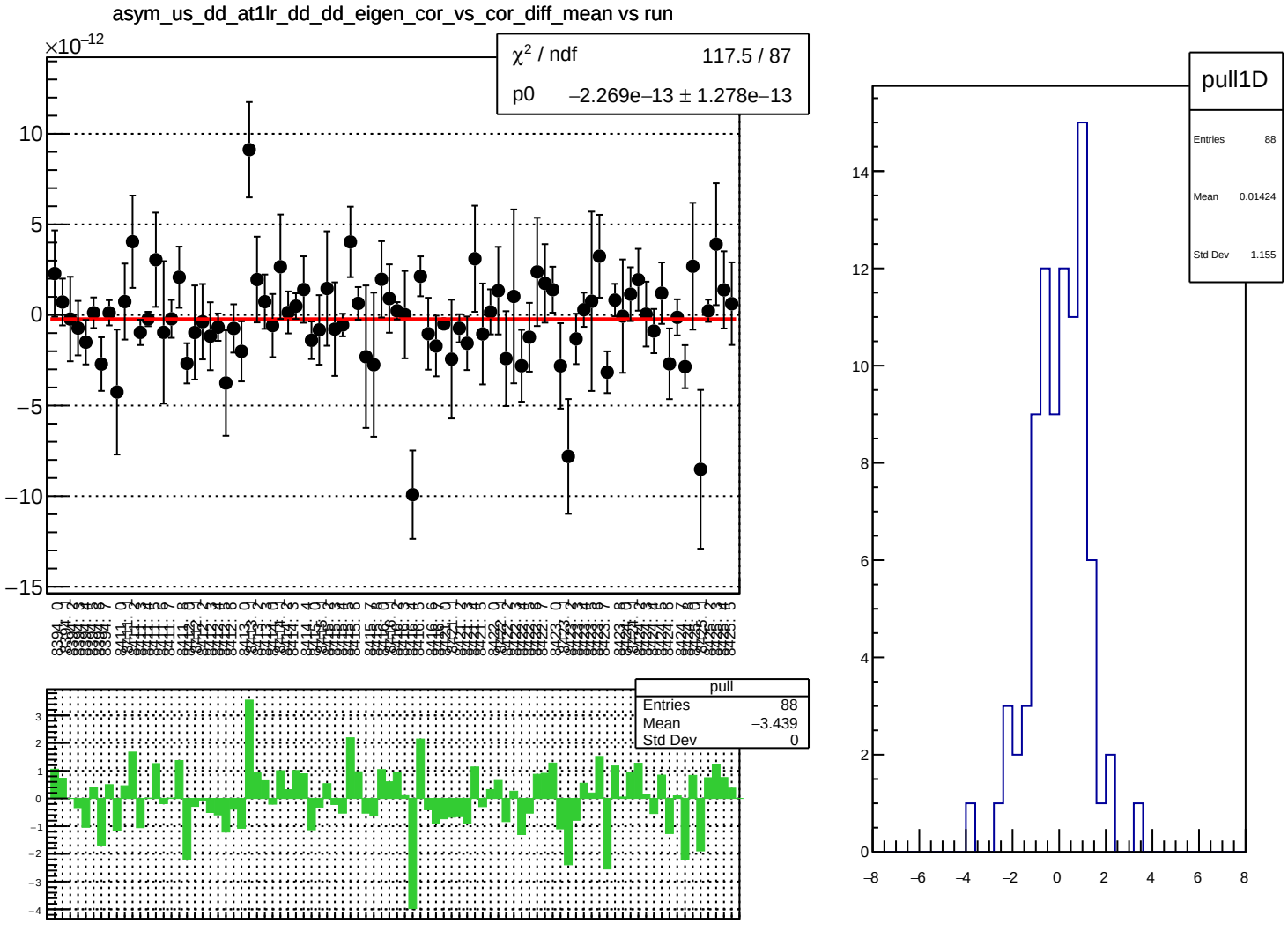

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.691e+05 / 87
p0 0.007455 ± 6.039e−06
0.014
0.012
0.01
0.008
0.006

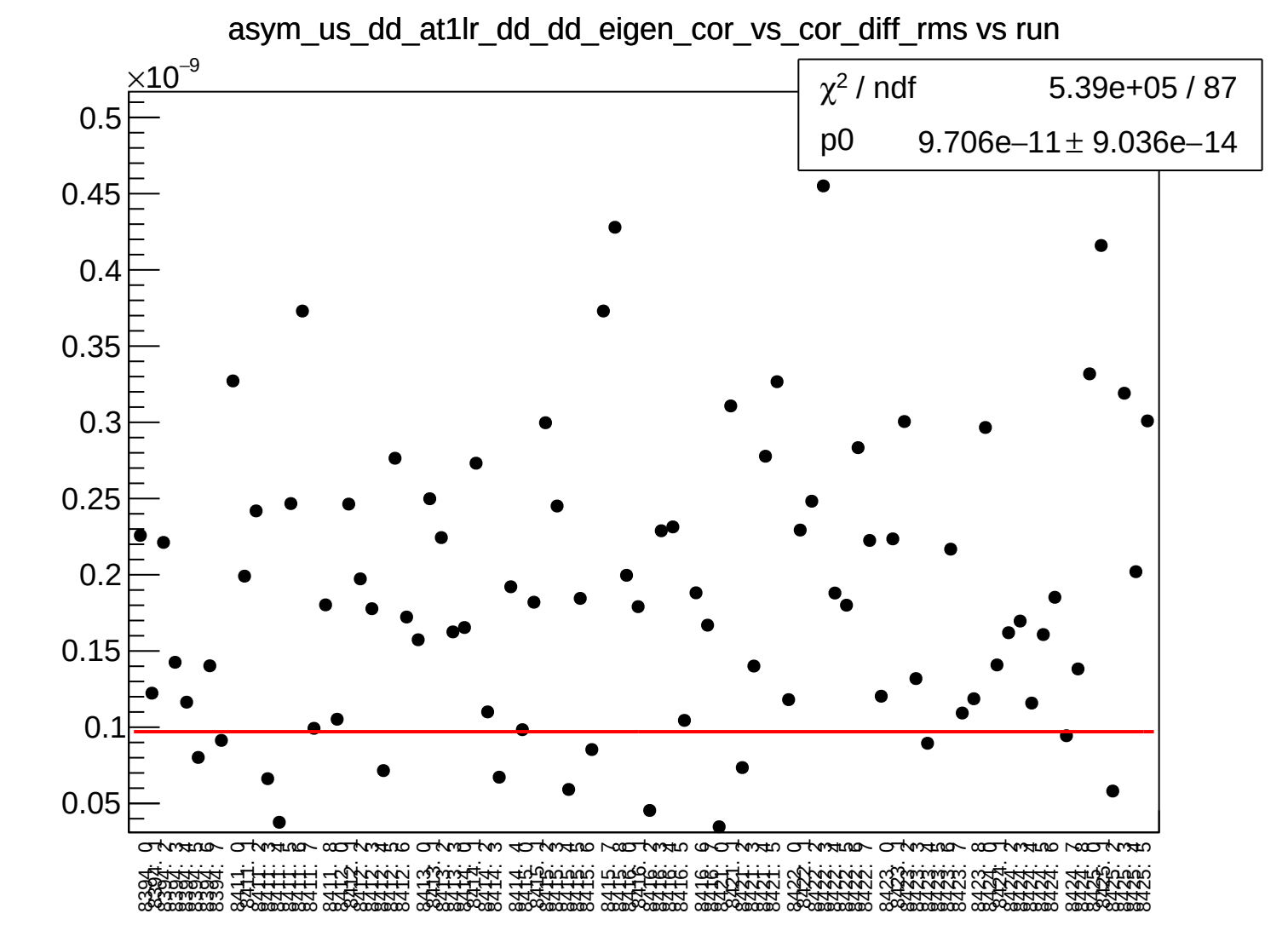

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.47 / 87
p0 −0.02397 ± 0.04495
pull
Entries 88
Mean −3394
Std Dev 0
pull1D
Entries 88
Mean 0.001309
Std Dev 0.9503

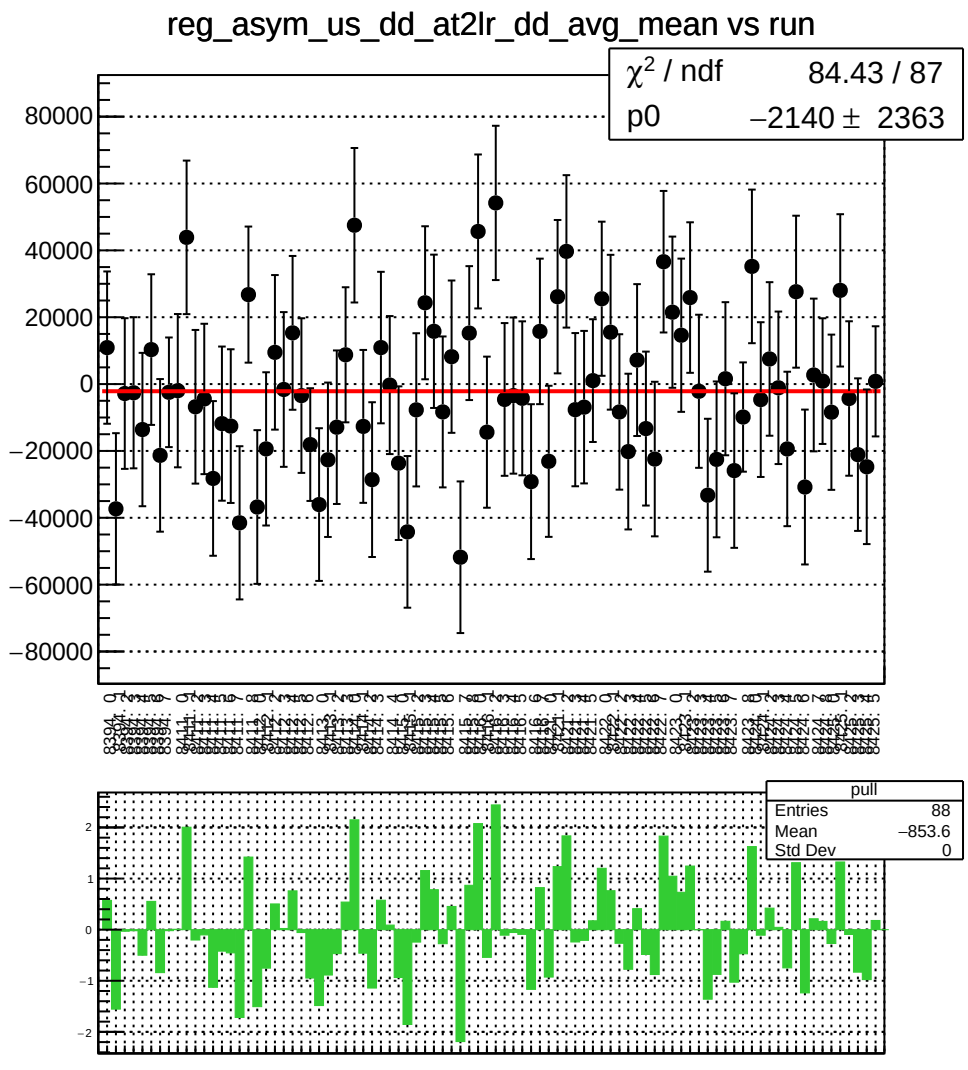

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.928e+05 / 87
p0 37.61 ± 0.03179
120
100
80
60
40
20

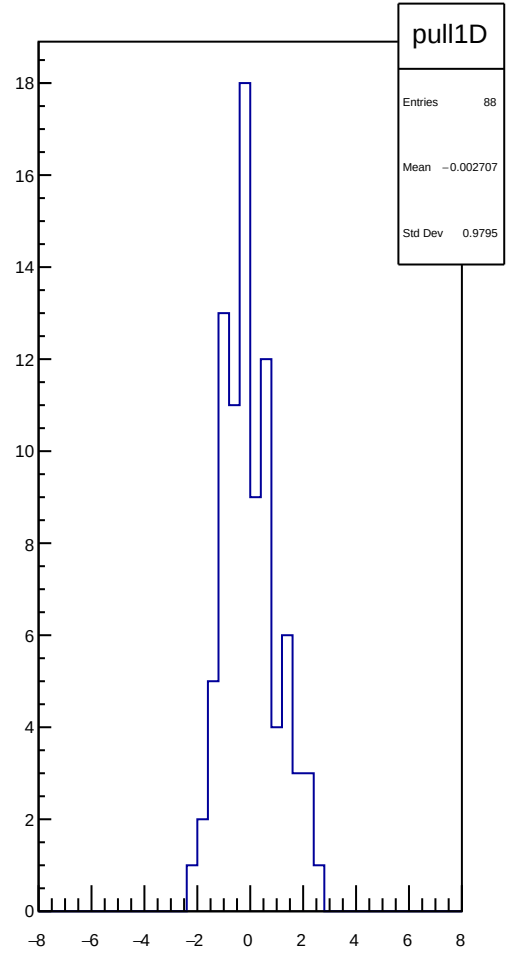

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.47 / 87
p0 −0.02397 ± 0.04495
pull
Entries 88
Mean −3394
Std Dev 0
pull1D
Entries 88
Mean 0.001309
Std Dev 0.9503

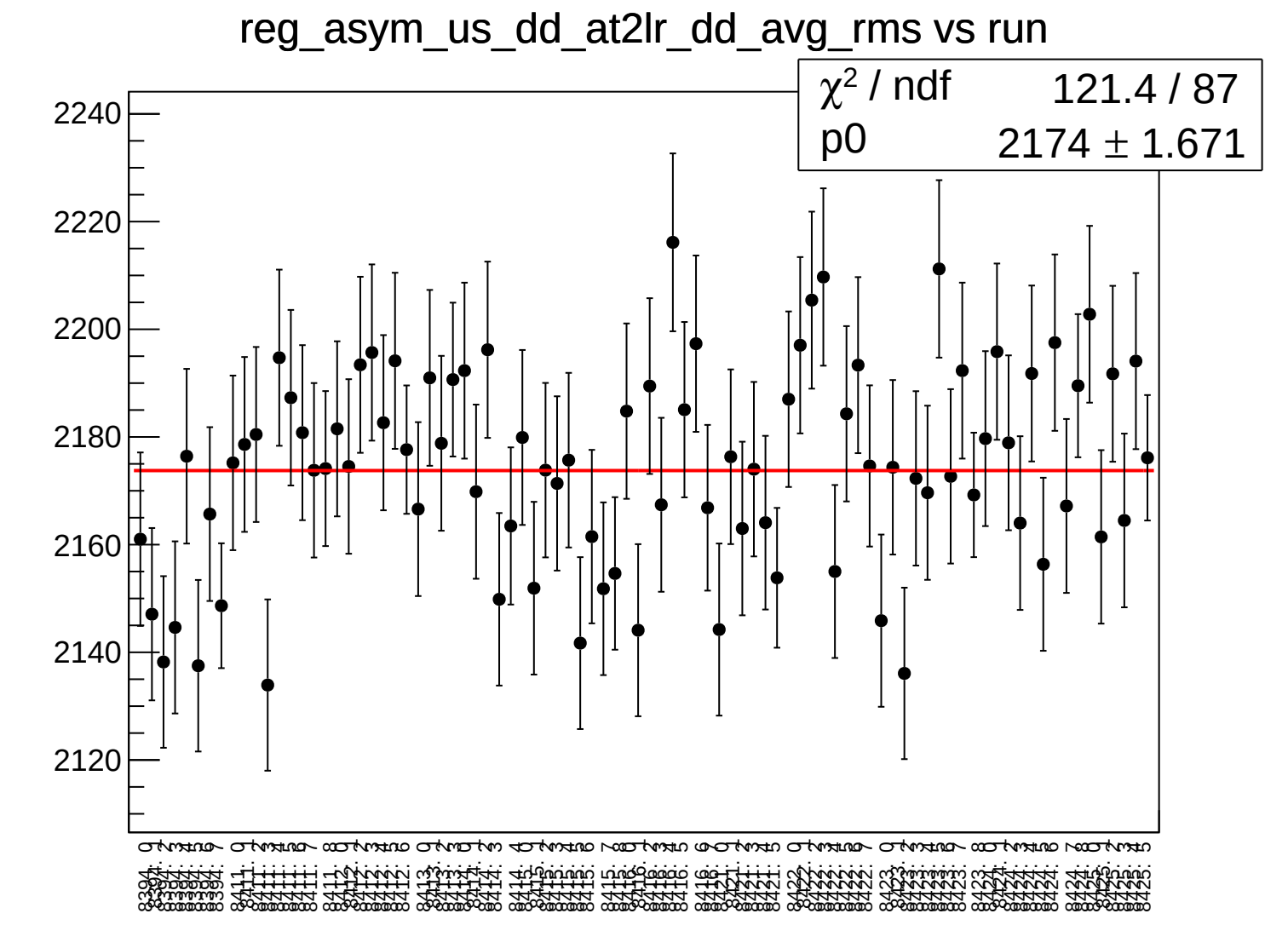

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.928e+05 / 87
p0 37.61 ± 0.03179
120
100
80
60
40
20

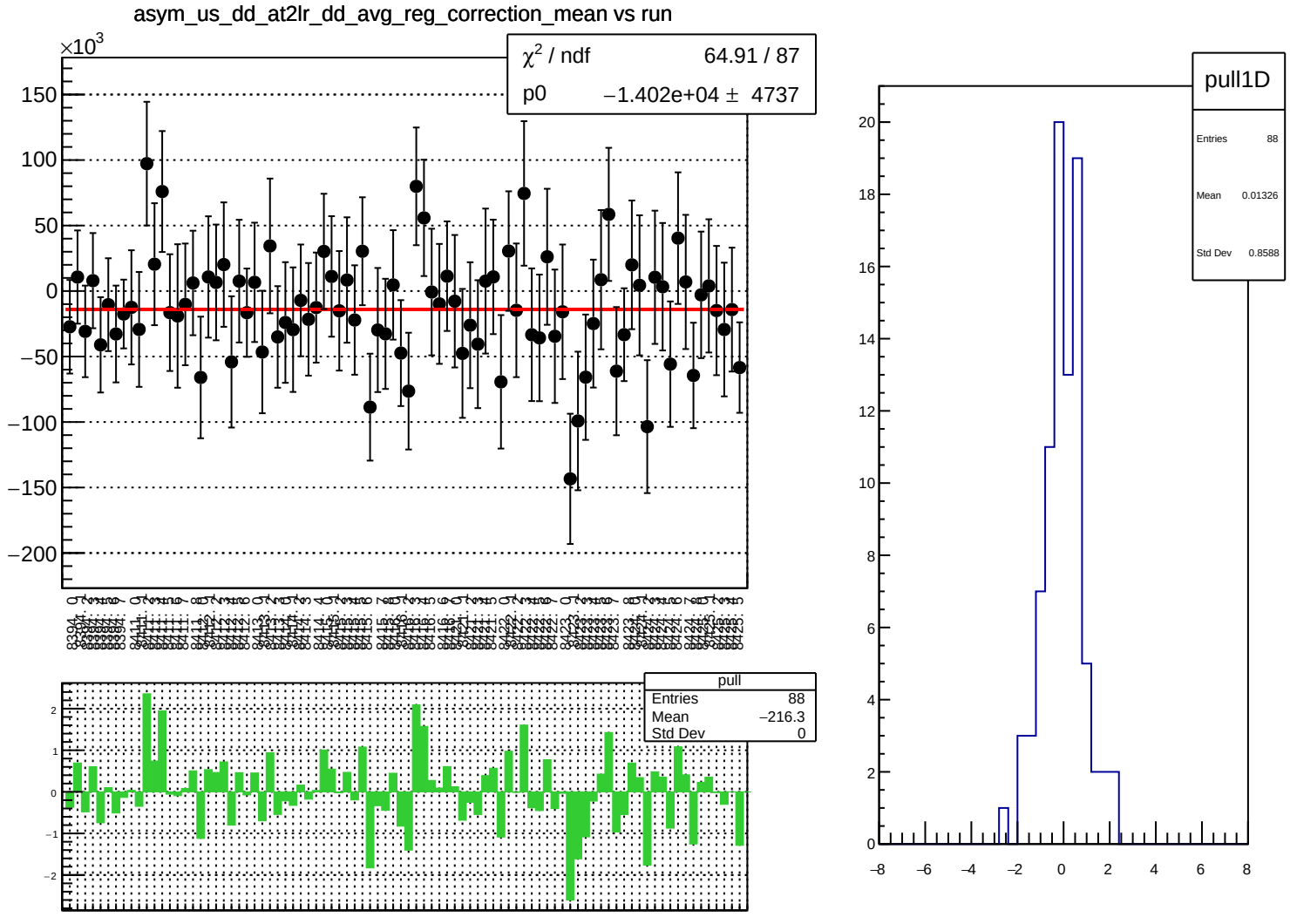

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 117.5 / 87
p0 −2.269e−13 ± 1.278e−13
pull
Entries 88
Mean −3.439
Std Dev 0
pull1D
Entries 88
Mean 0.01424
Std Dev 1.155

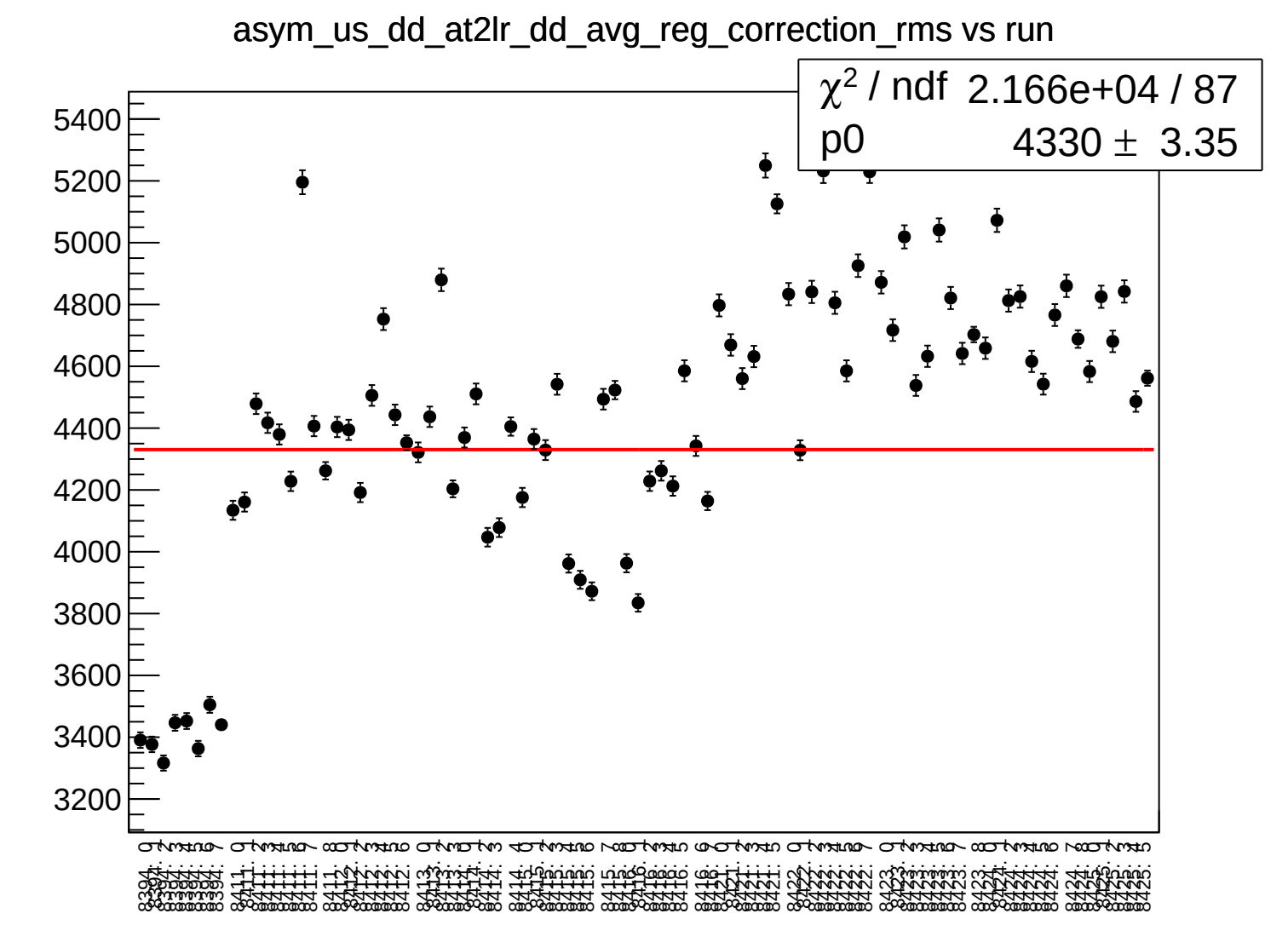

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.39e+05 / 87
p0 9.706e−11 ± 9.036e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

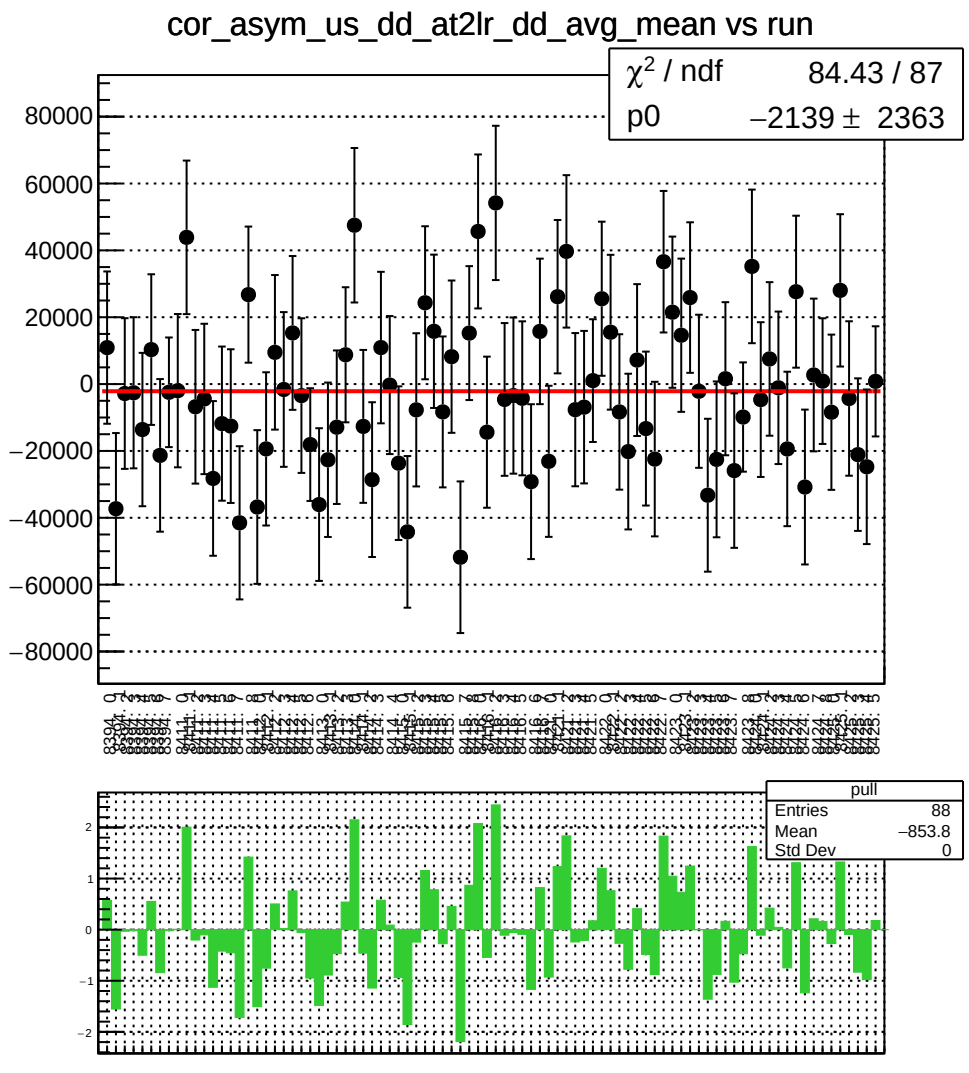

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 84.43 / 87
p0 −2140 ± 2363
pull
Entries 88
Mean −853.6
Std Dev 0

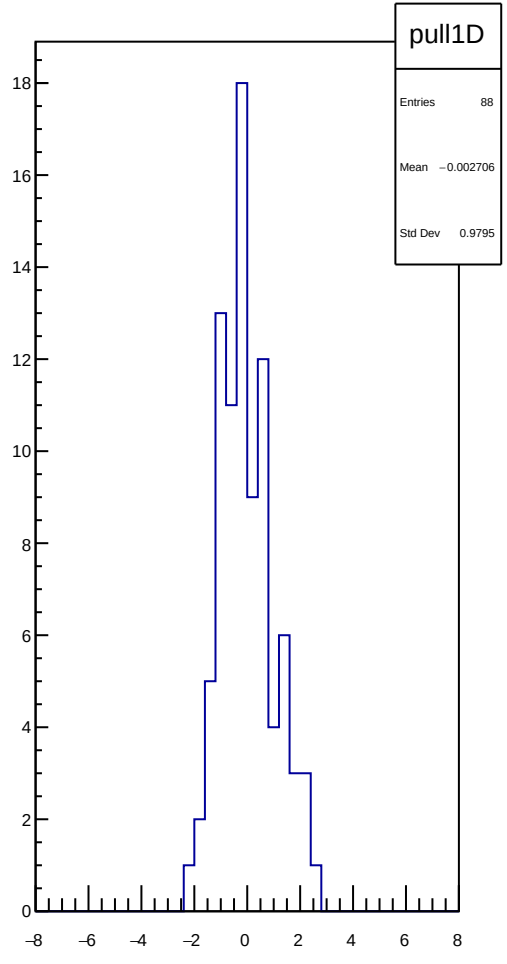

pull1D
Entries 88
Mean −0.002707
Std Dev 0.9795

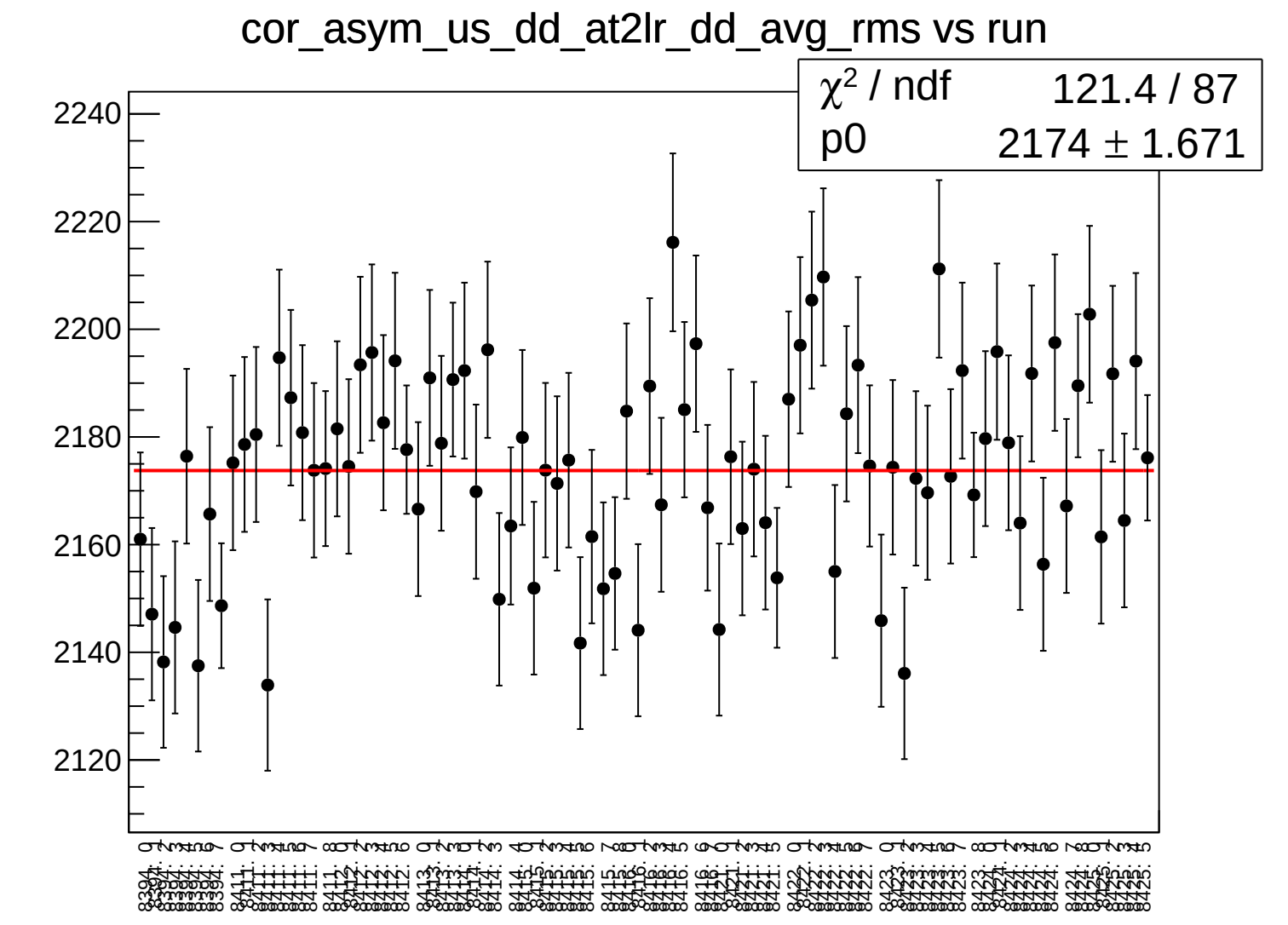

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 121.4 / 87
p0 2174 ± 1.671
2240
2220
2200
2180
2160
2140
2120

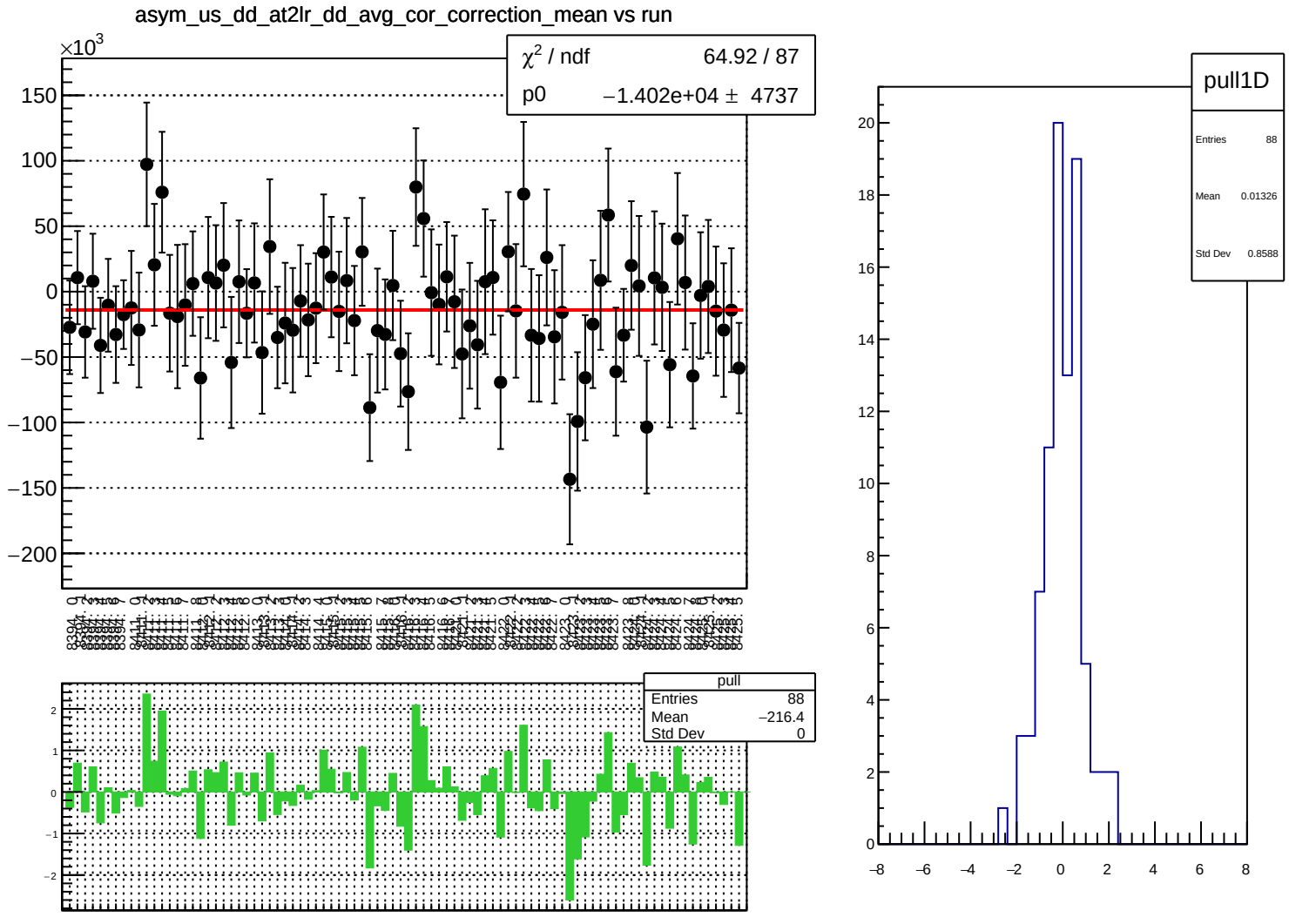

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 64.91 / 87
p0 −1.402e+04 ± 4737
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −216.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01326
Std Dev 0.8588
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

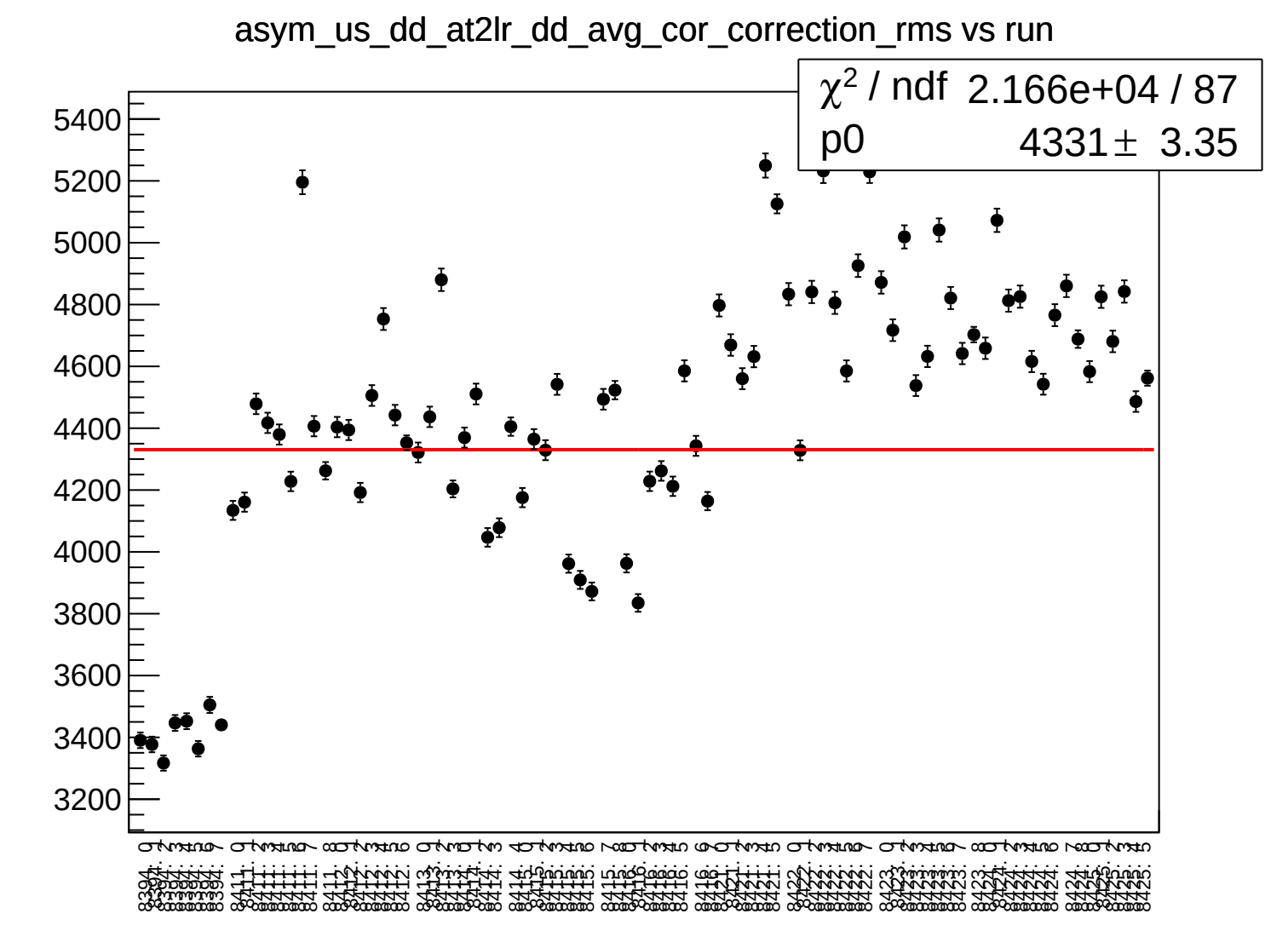

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 2.166e+04 / 87
p0 4330 ± 3.35
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

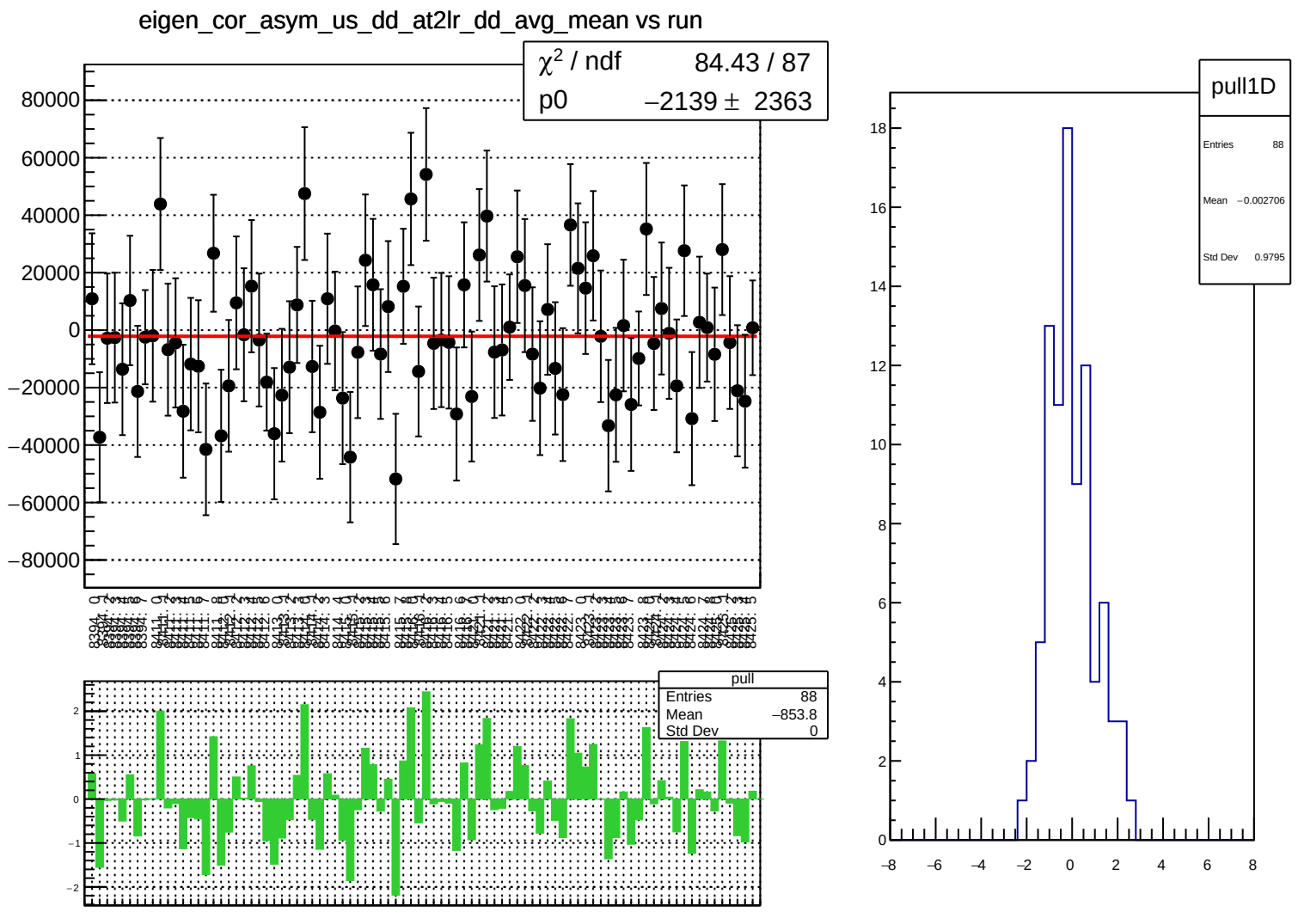

cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 84.43 / 87
p0 −2139 ± 2363
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −853.8
Std Dev 0
2
1
0
−1
−2

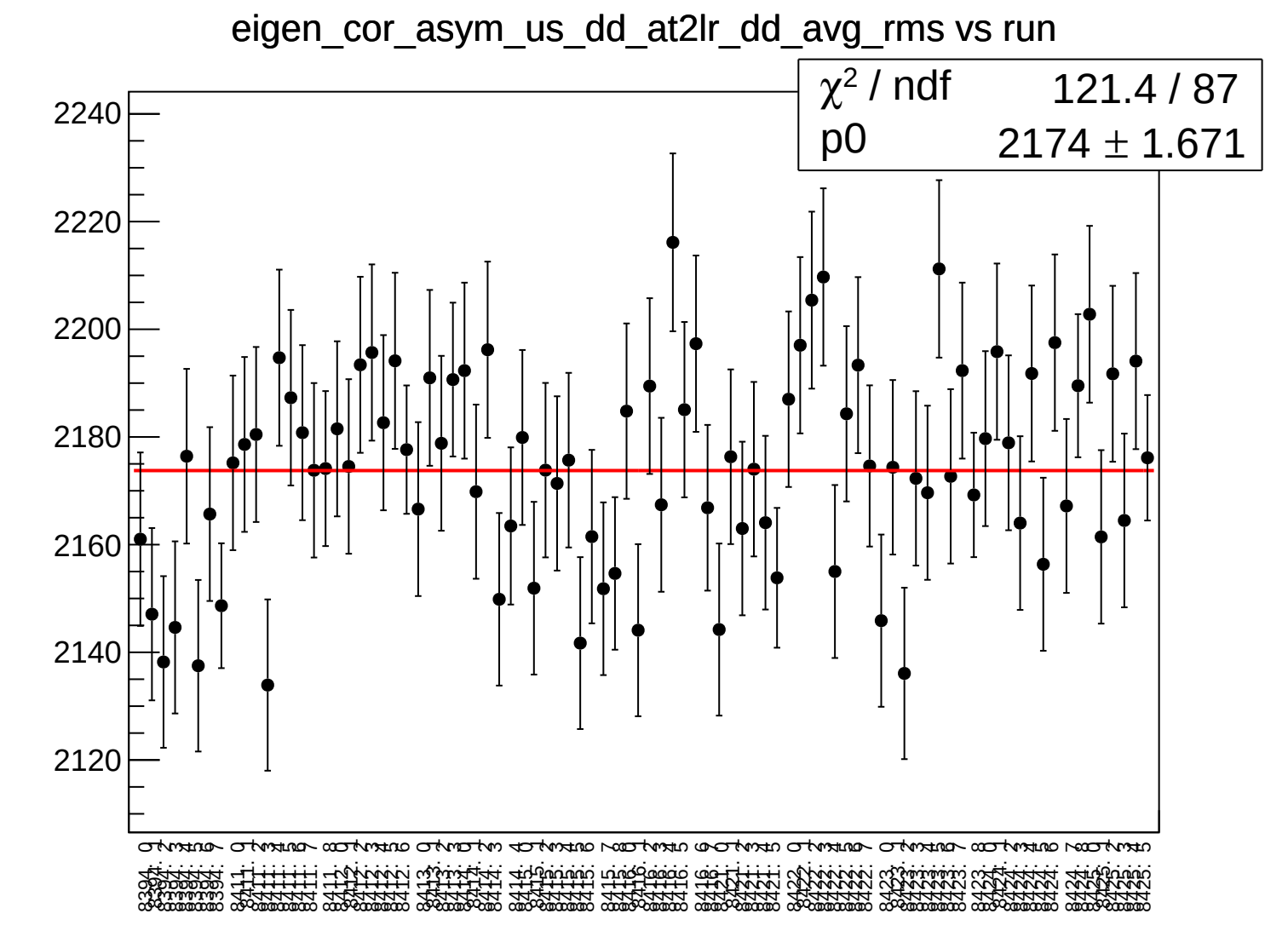

pull1D
Entries 88
Mean −0.002706
Std Dev 0.9795
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

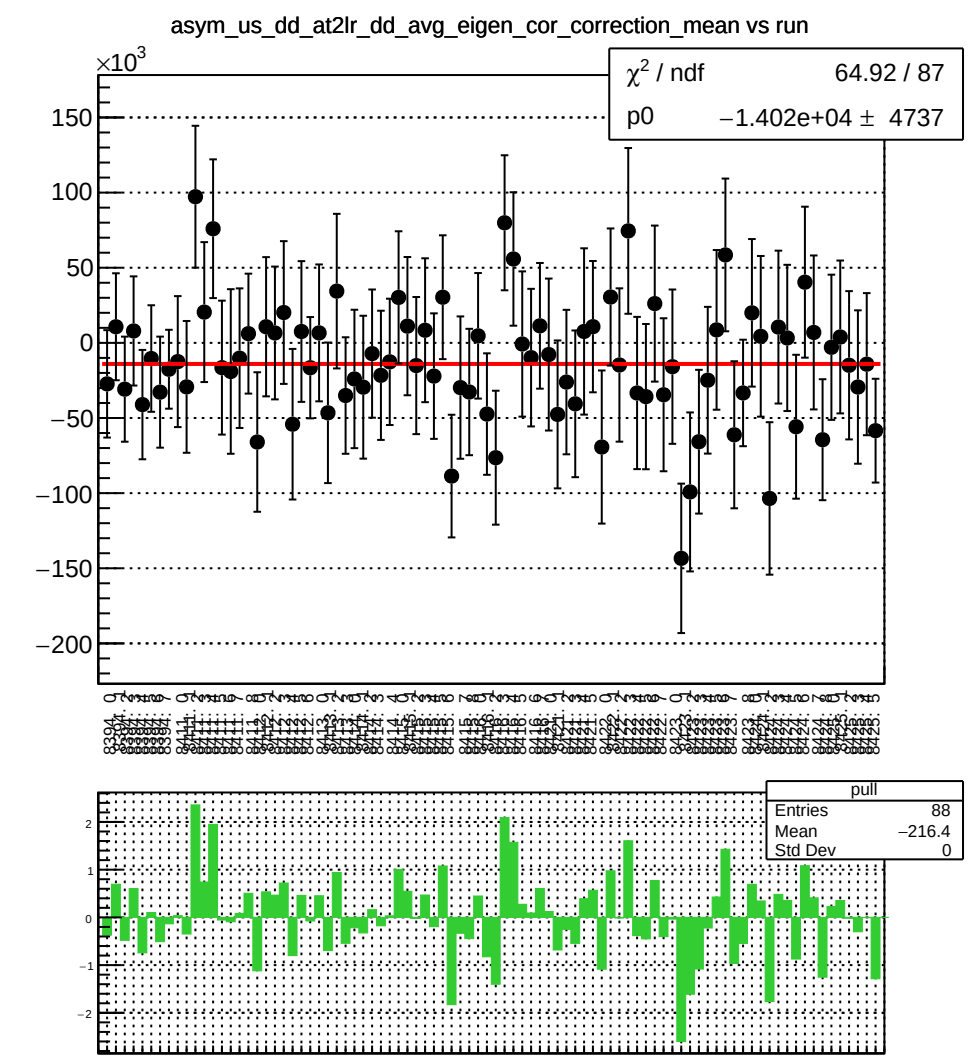

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 121.4 / 87
p0 2174 ± 1.671
2240
2220
2200
2180
2160
2140
2120

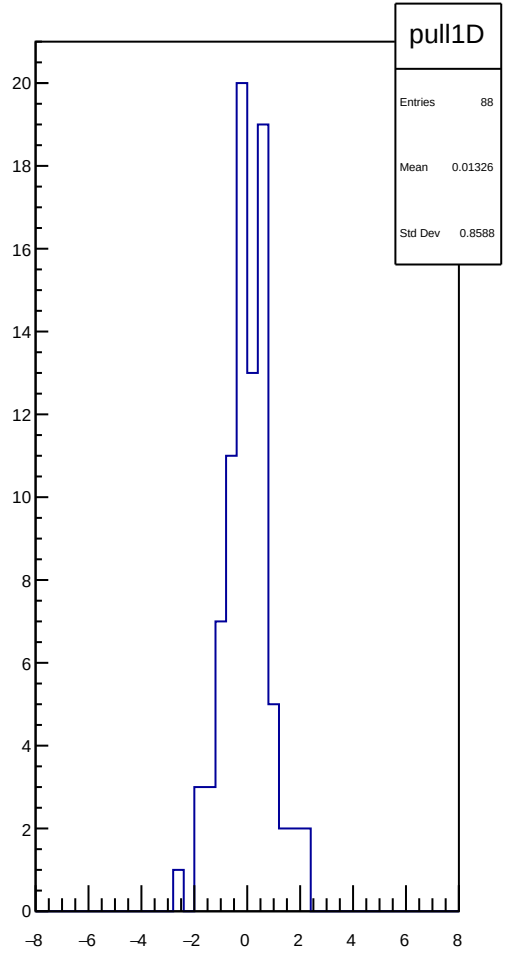

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 64.92 / 87
p0 −1.402e+04 ± 4737
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −216.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01326
Std Dev 0.8588
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

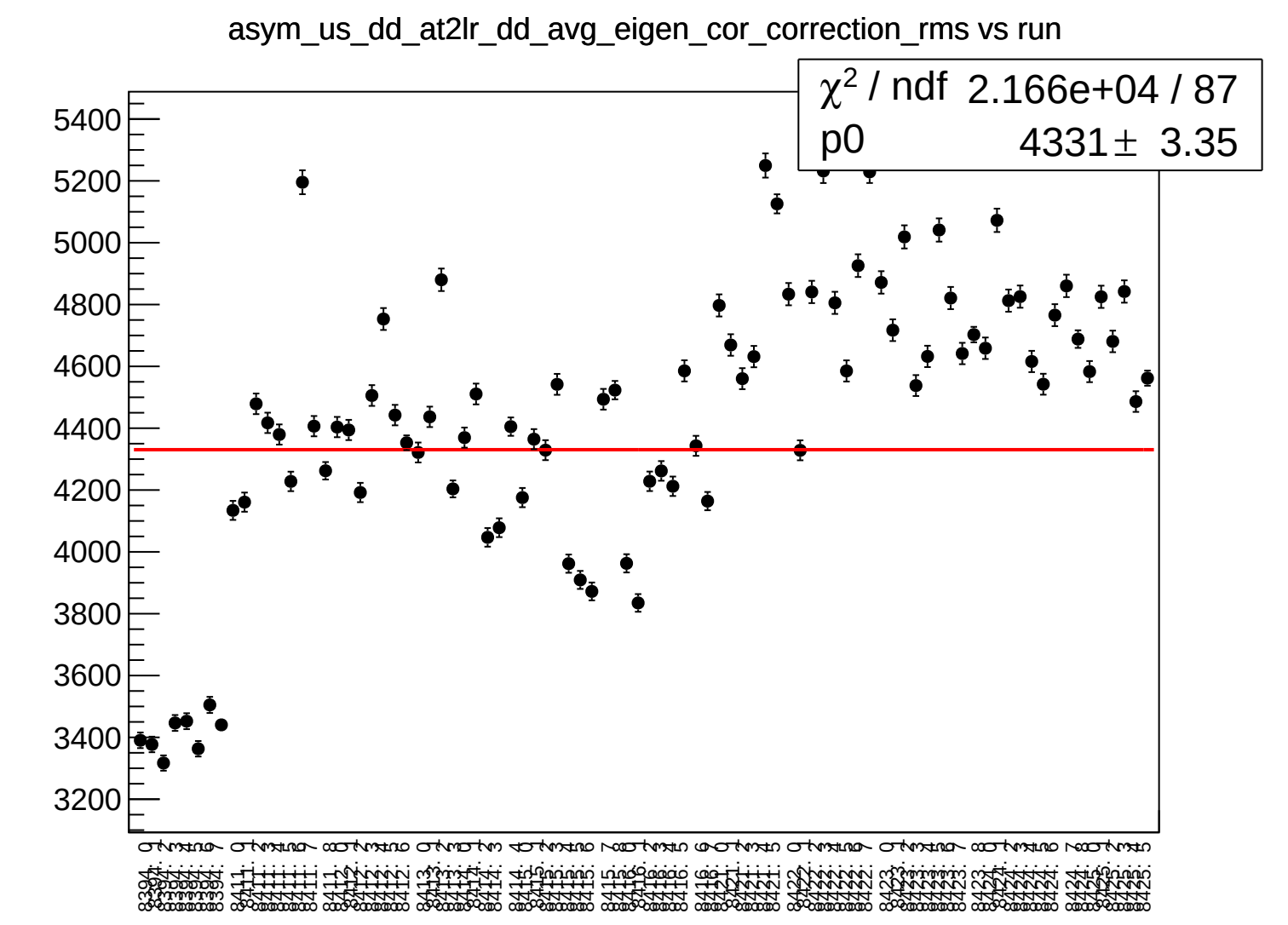

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 2.166e+04 / 87
p0 4331 ± 3.35
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

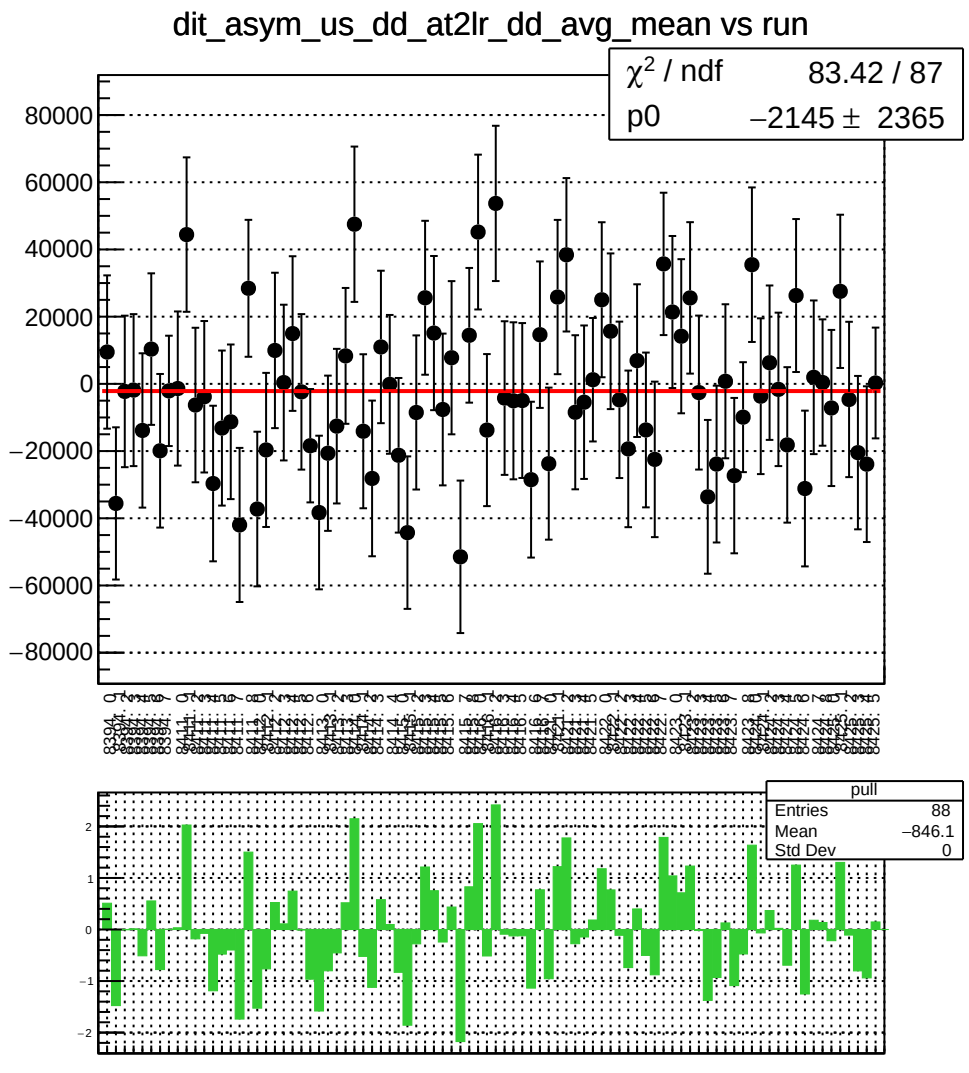

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 84.43 / 87
p0 −2139 ± 2363
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −853.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.002706
Std Dev 0.9795
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

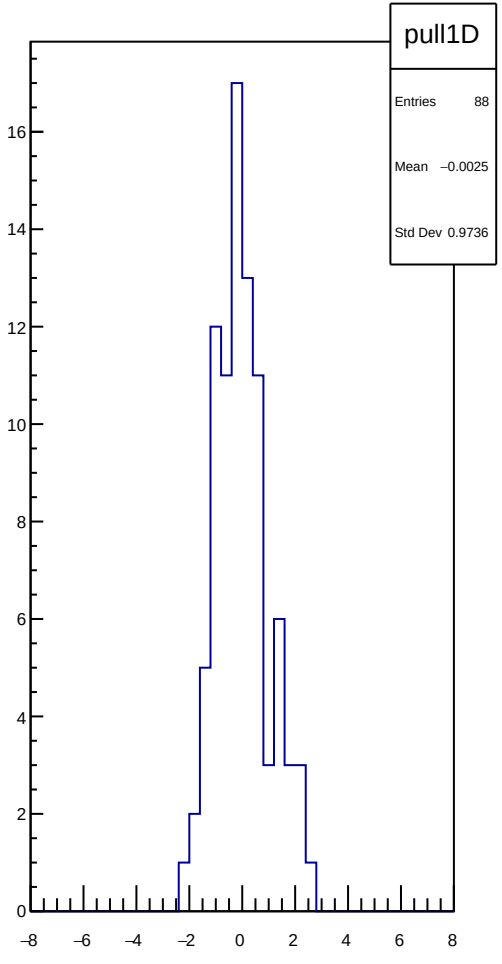

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 121.4 / 87
p0 2174 ± 1.671
2240
2220
2200
2180
2160
2140
2120

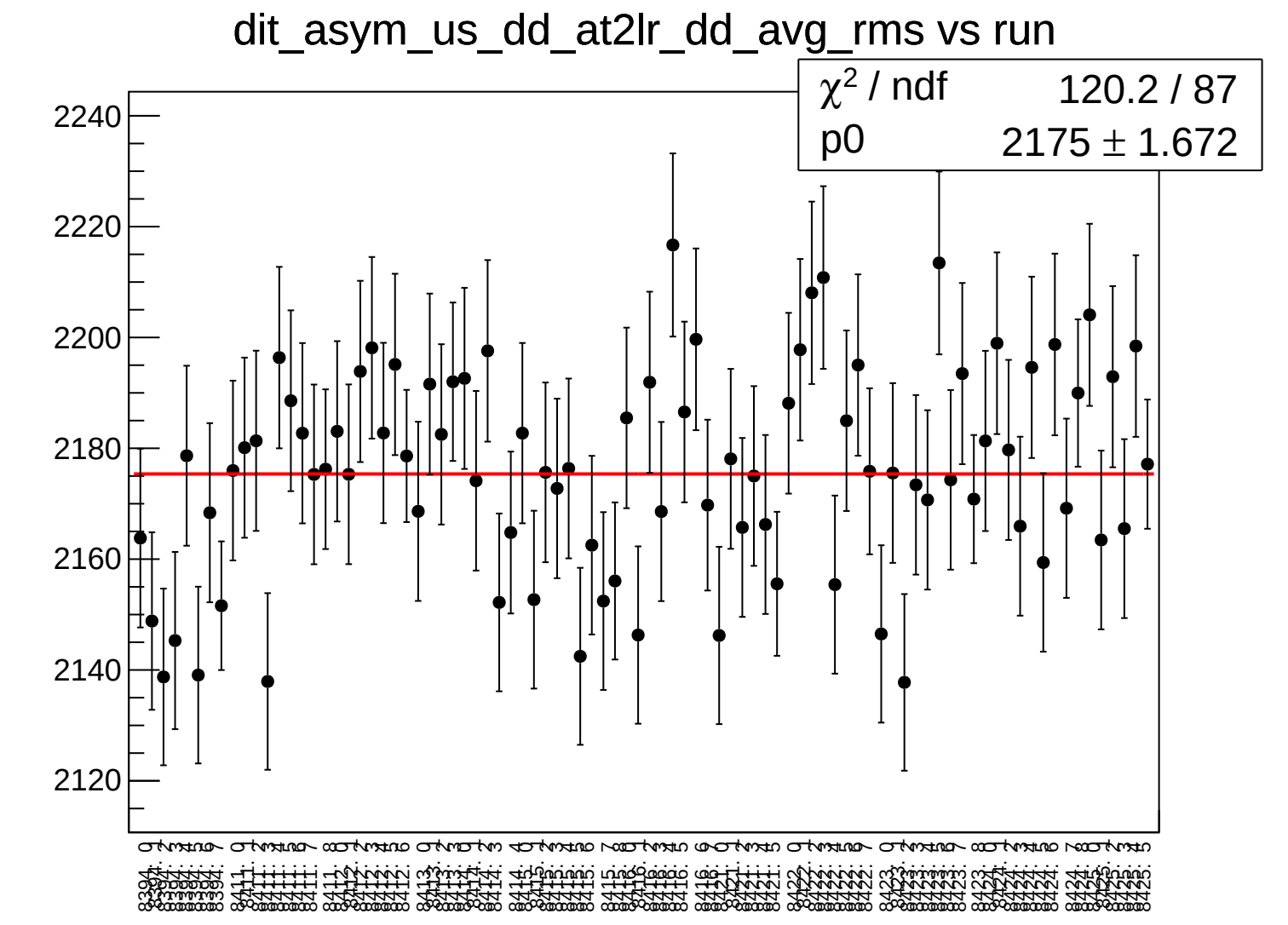

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 64.92 / 87
p0 −1.402e+04 ± 4737
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −216.4
Std Dev 0
2
1
0
−1
−2

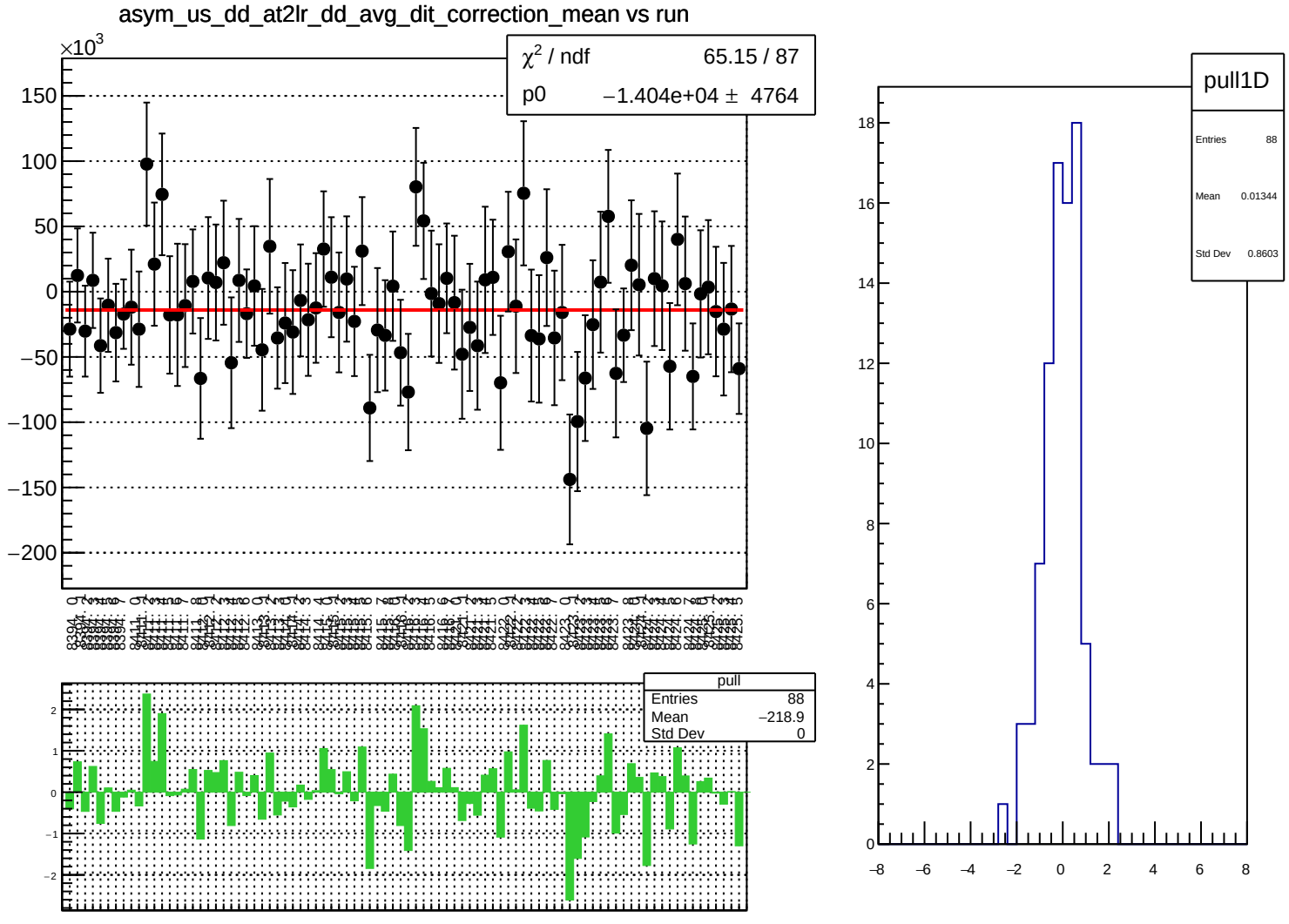

pull1D
Entries 88
Mean 0.01326
Std Dev 0.8588
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

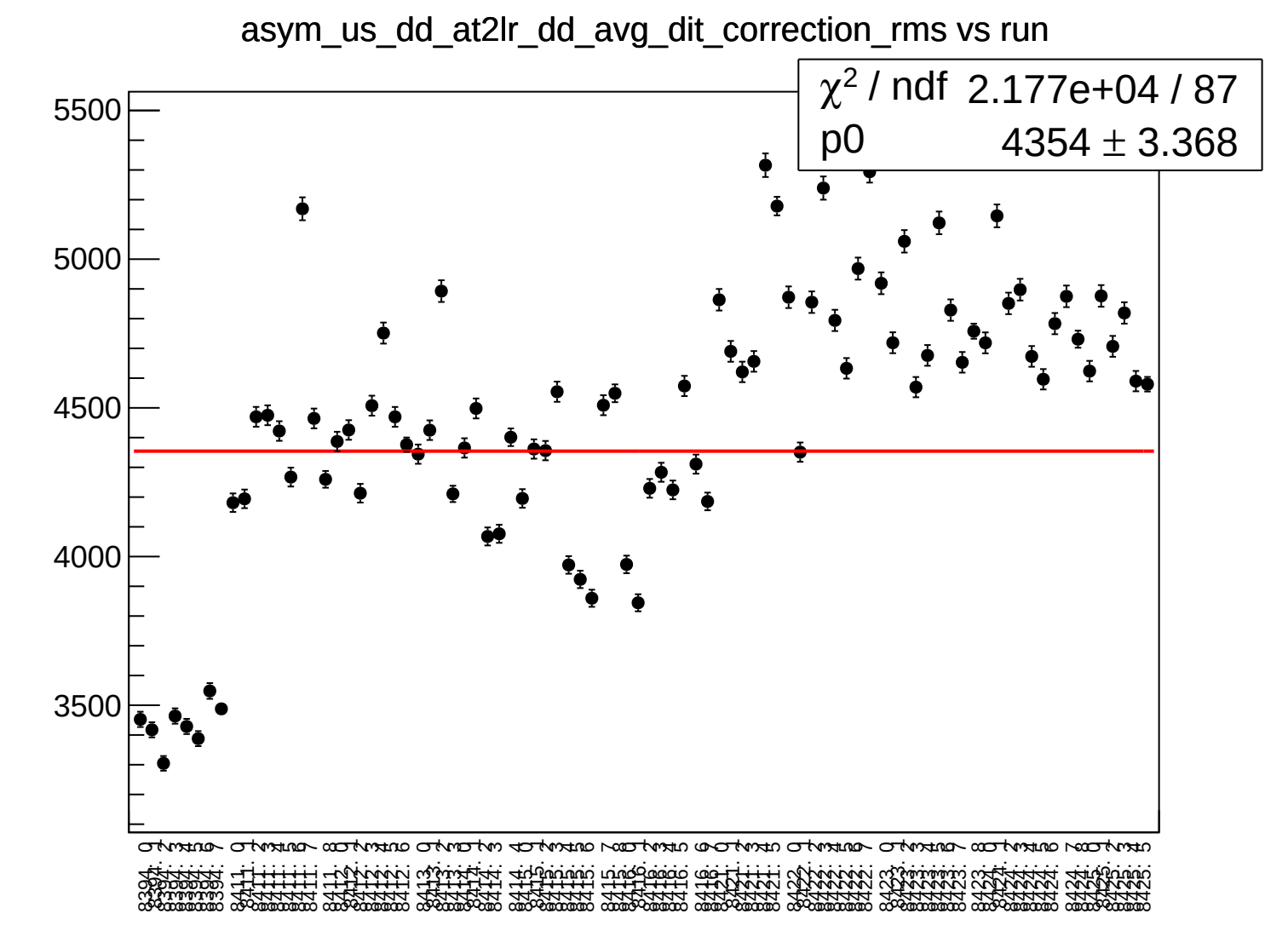

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.166e+04 / 87
p0 4331 ± 3.35
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

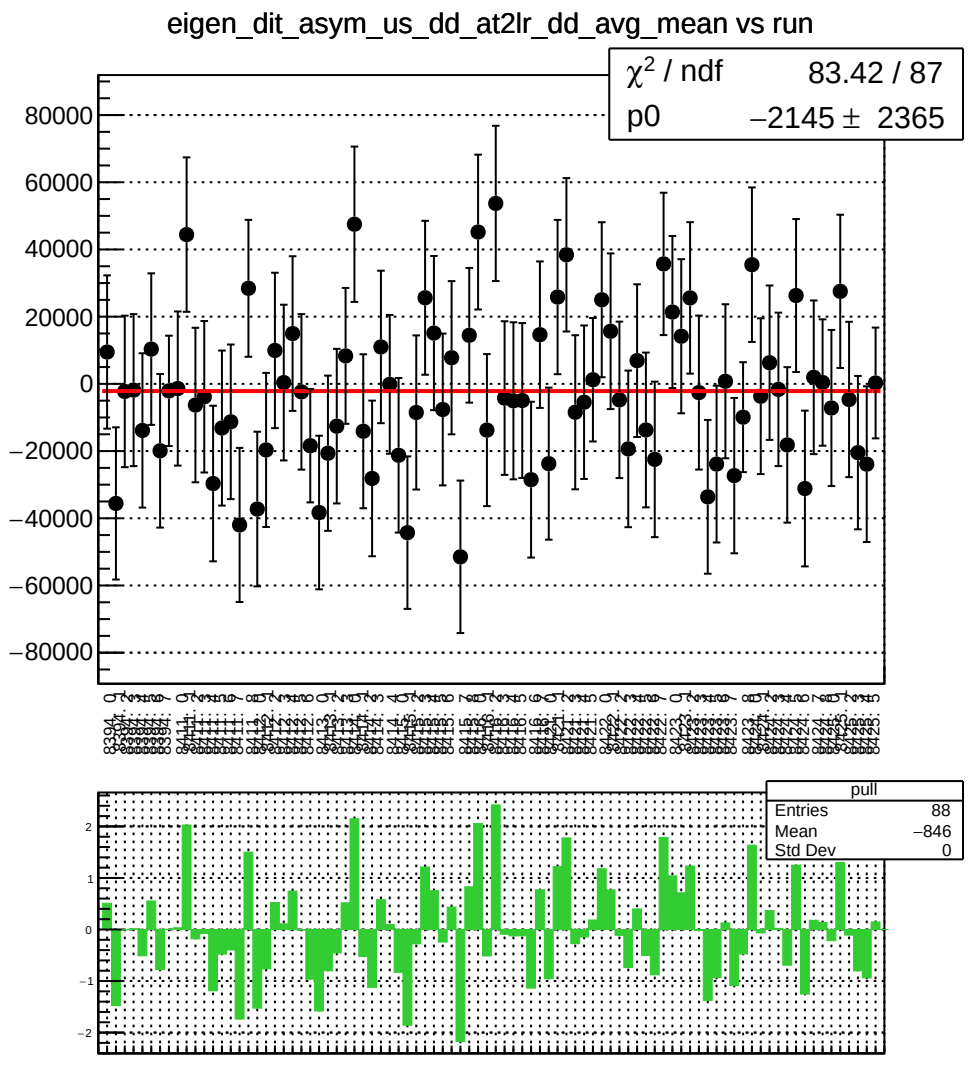

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 83.42 / 87
p0 −2145 ± 2365
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −846.1
Std Dev 0
2
1
0
−1
−2

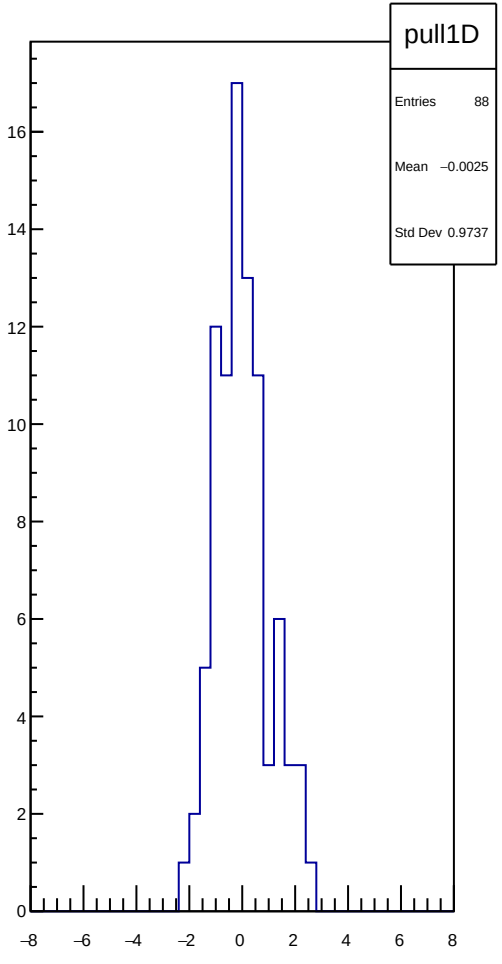

pull1D
Entries 88
Mean −0.0025
Std Dev 0.9736
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

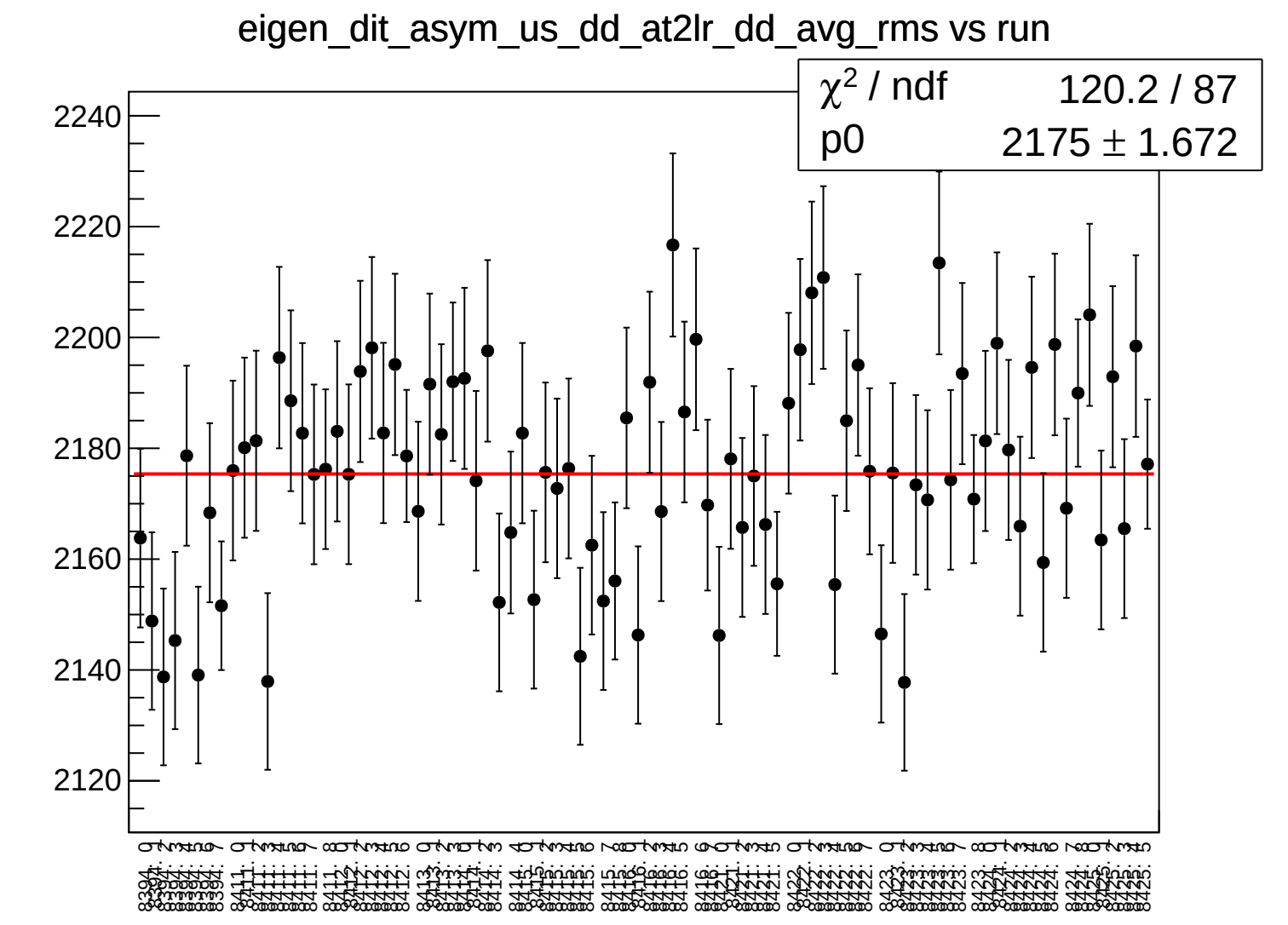

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 120.2 / 87
p0 2175 ± 1.672
2240
2220
2200
2180
2160
2140
2120

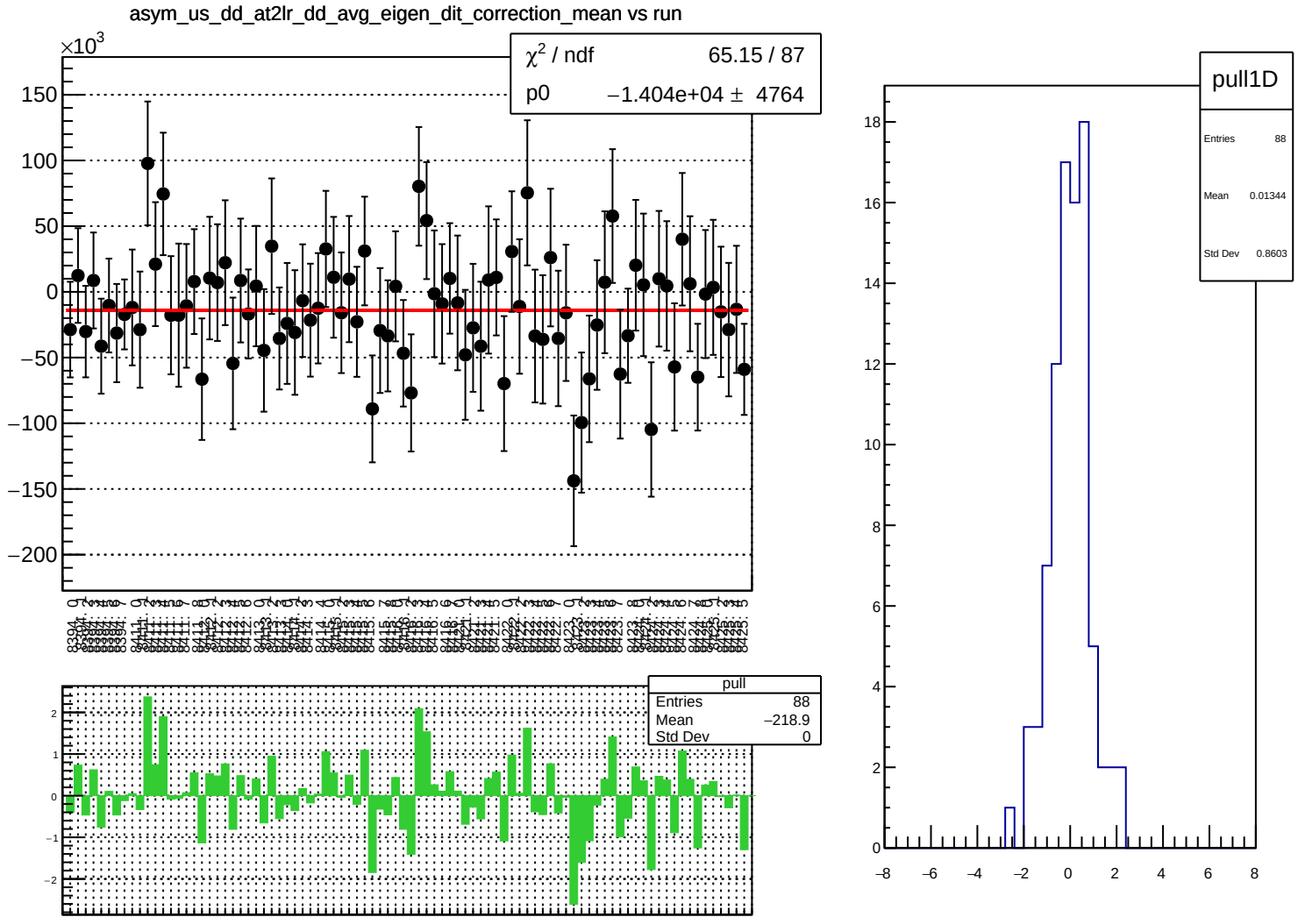

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 65.15 / 87
p0 −1.404e+04 ± 4764
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −218.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01344
Std Dev 0.8603
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

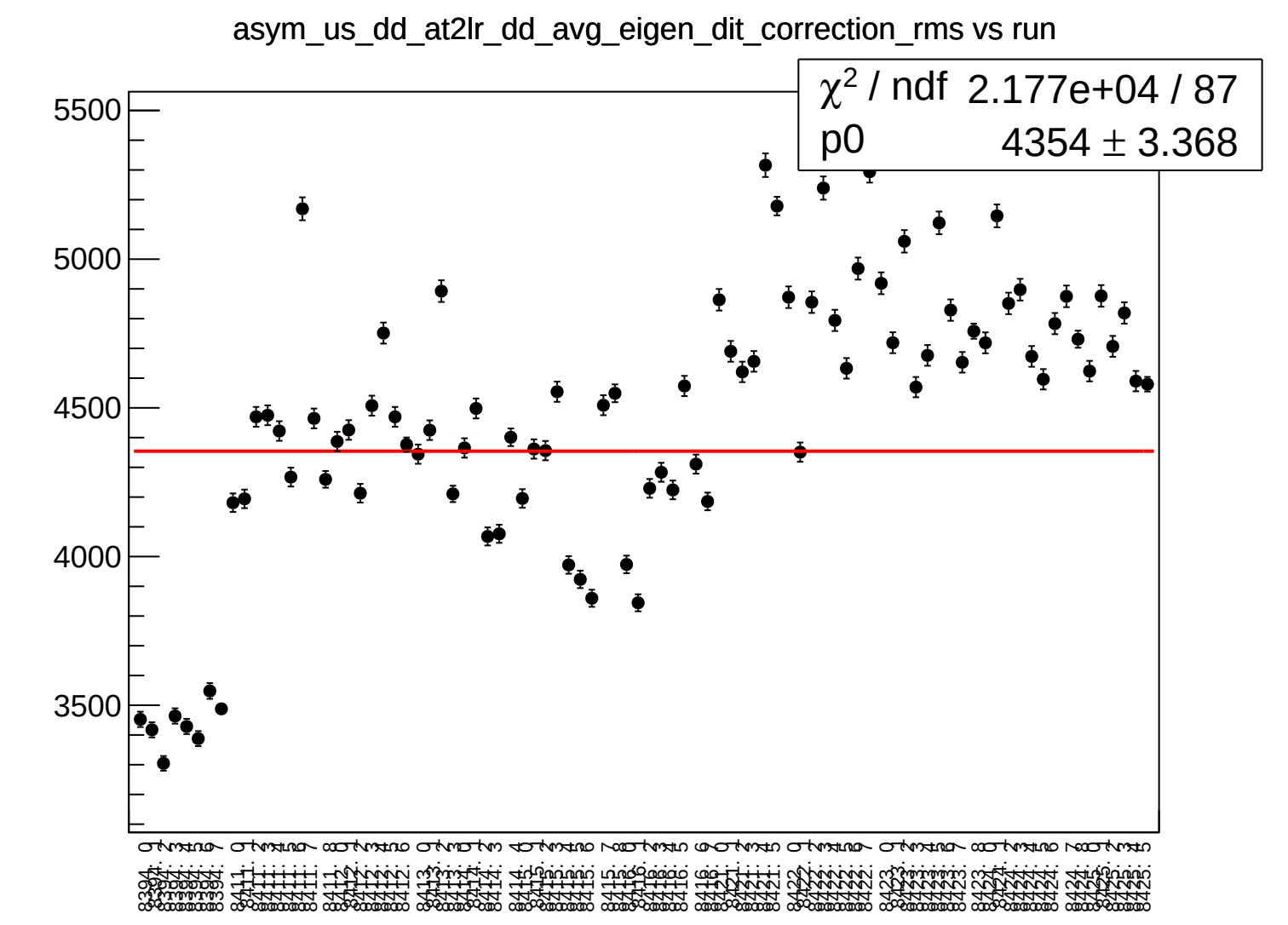

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 2.177e+04 / 87
p0 4354 ± 3.368
5500
5000
4500
4000
3500

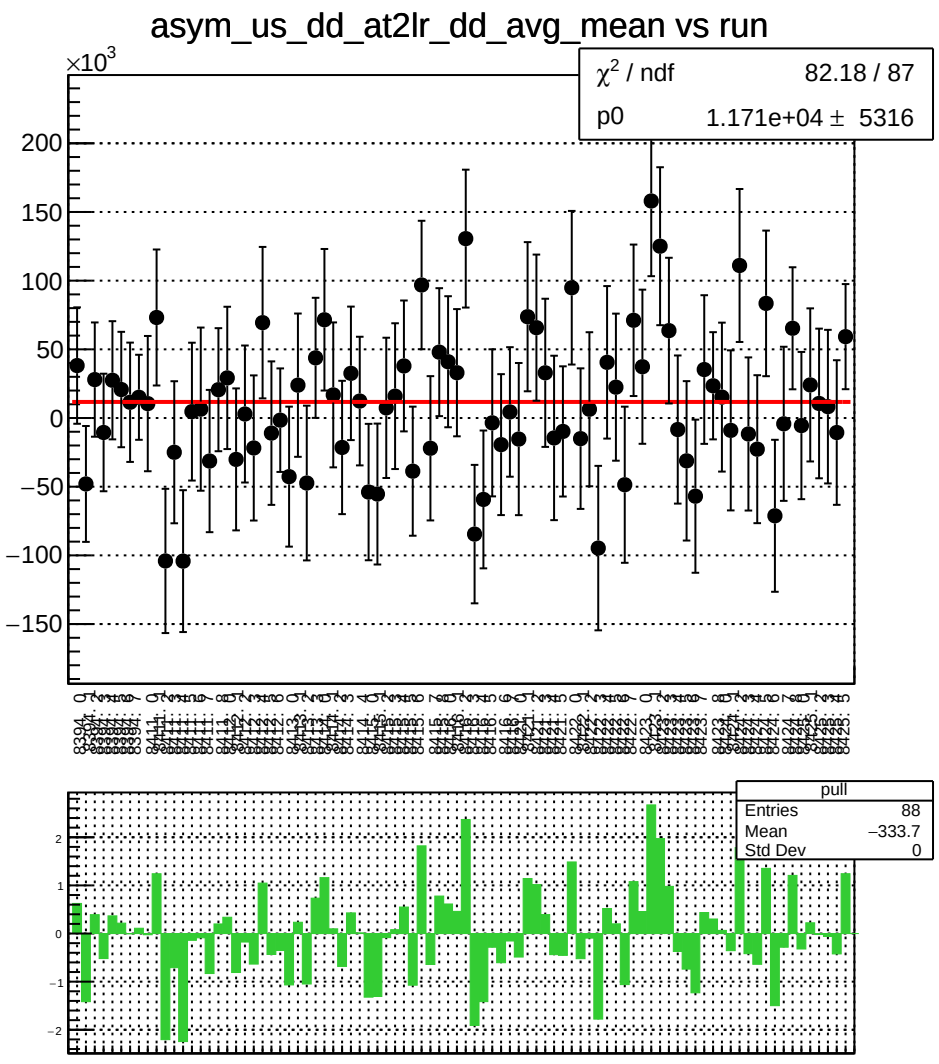

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 83.42 / 87
p0 −2145 ± 2365
pull
Entries 88
Mean −846
Std Dev 0

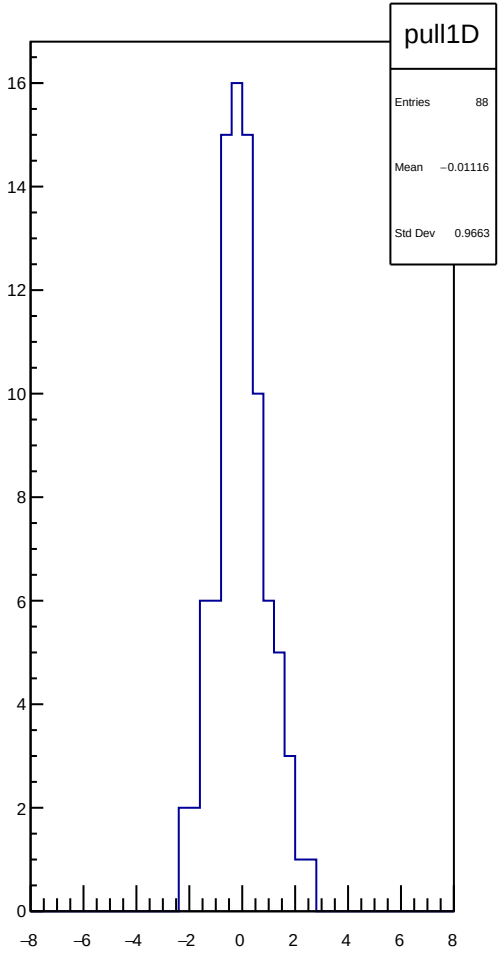

pull1D
Entries 88
Mean −0.0025
Std Dev 0.9737

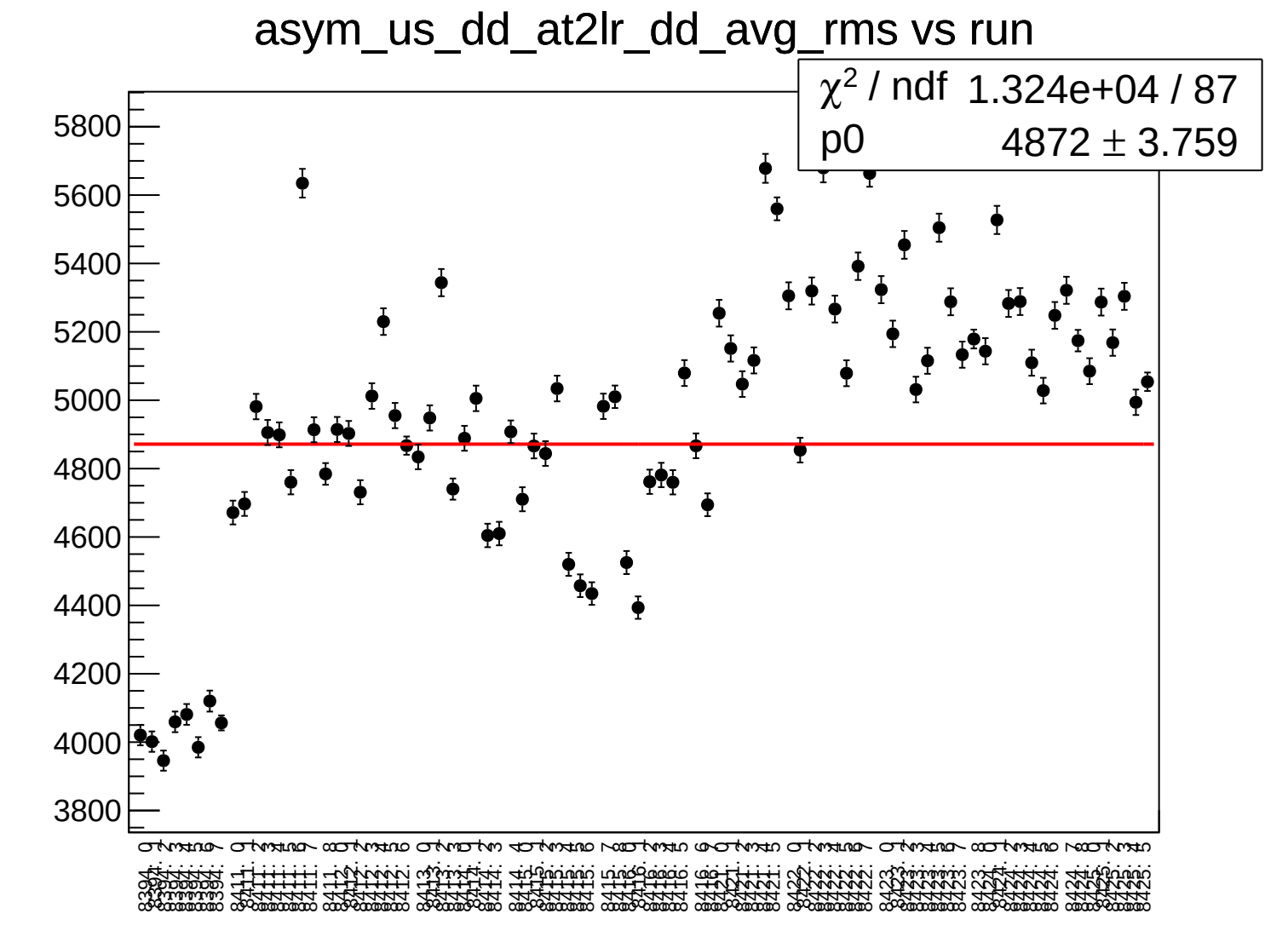

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 120.2 / 87
p0 2175 ± 1.672
2240
2220
2200
2180
2160
2140
2120

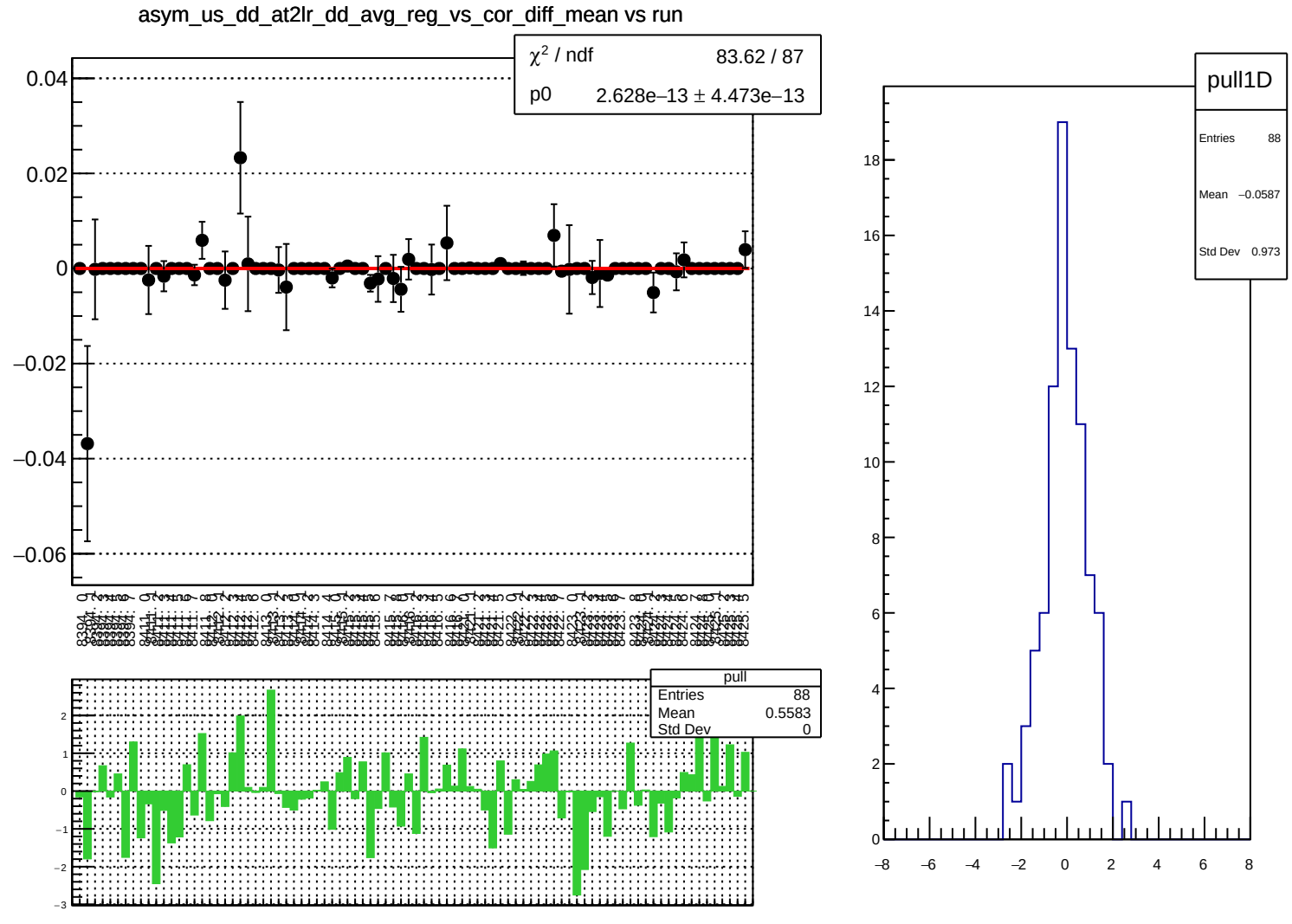

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 65.15 / 87
p0 −1.404e+04 ± 4764
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −218.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01344
Std Dev 0.8603
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

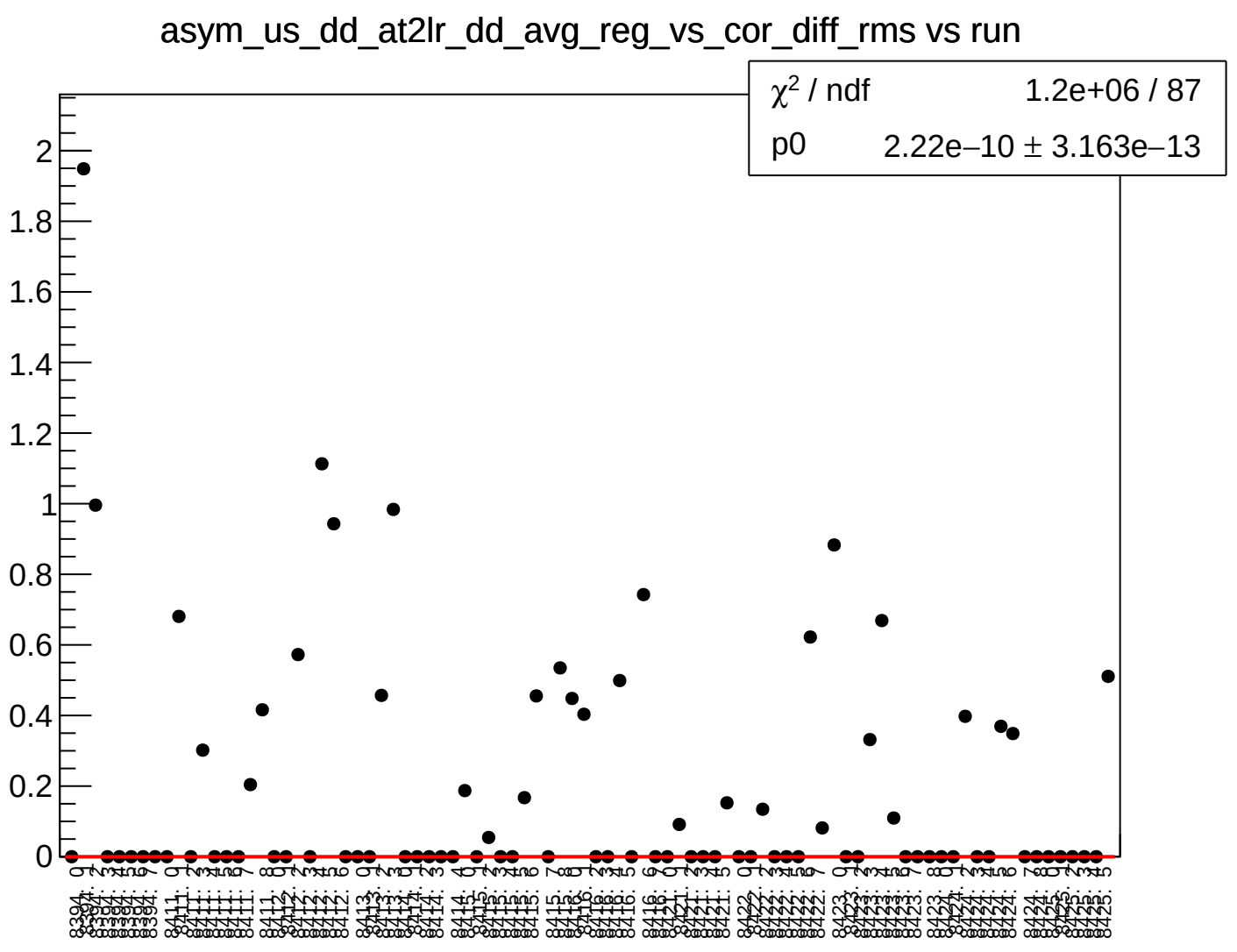

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.177e+04 / 87
p0 4354 ± 3.368
5500
5000
4500
4000
3500

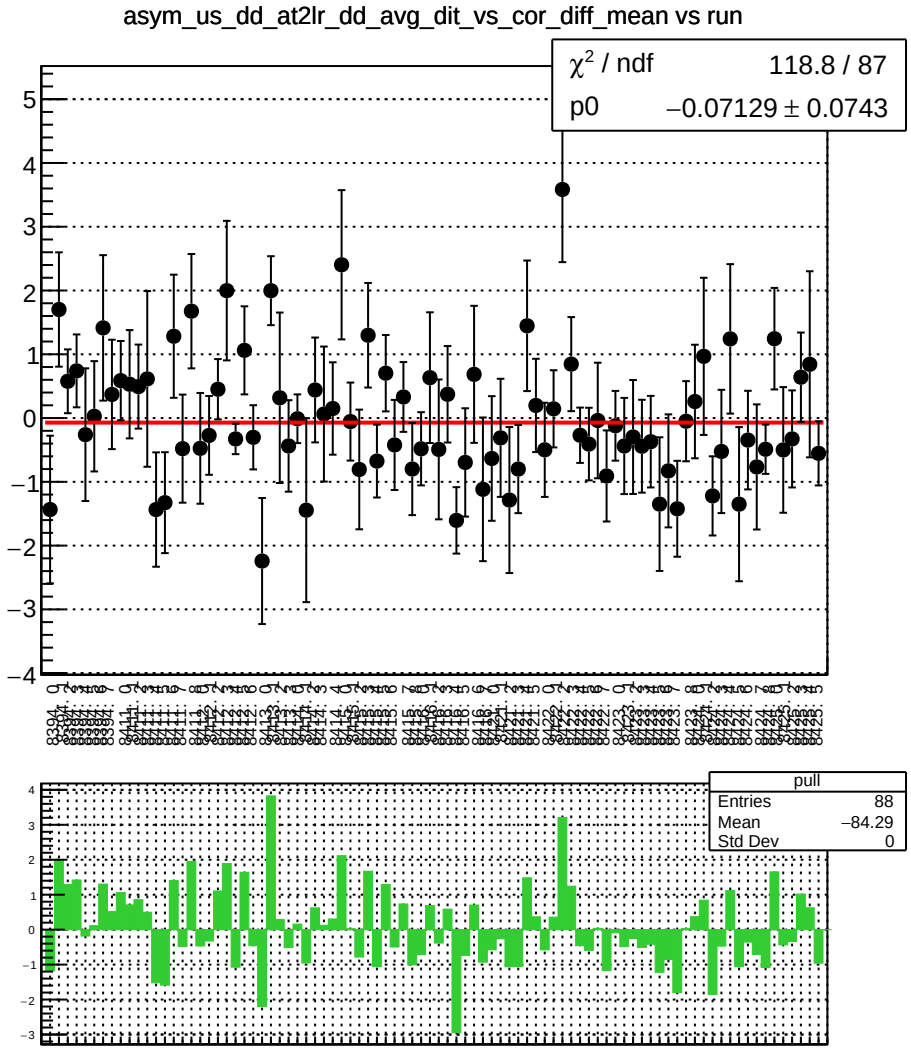

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 82.18 / 87
p0 1.171e+04 ± 5316
200
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −333.7
Std Dev 0
2
1
0
−1
−2

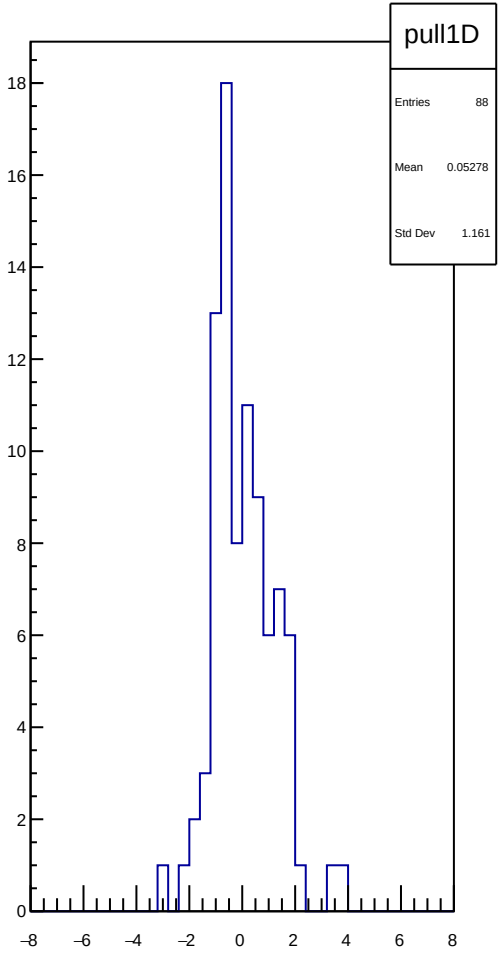

pull1D
Entries 88
Mean −0.01116
Std Dev 0.9663
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

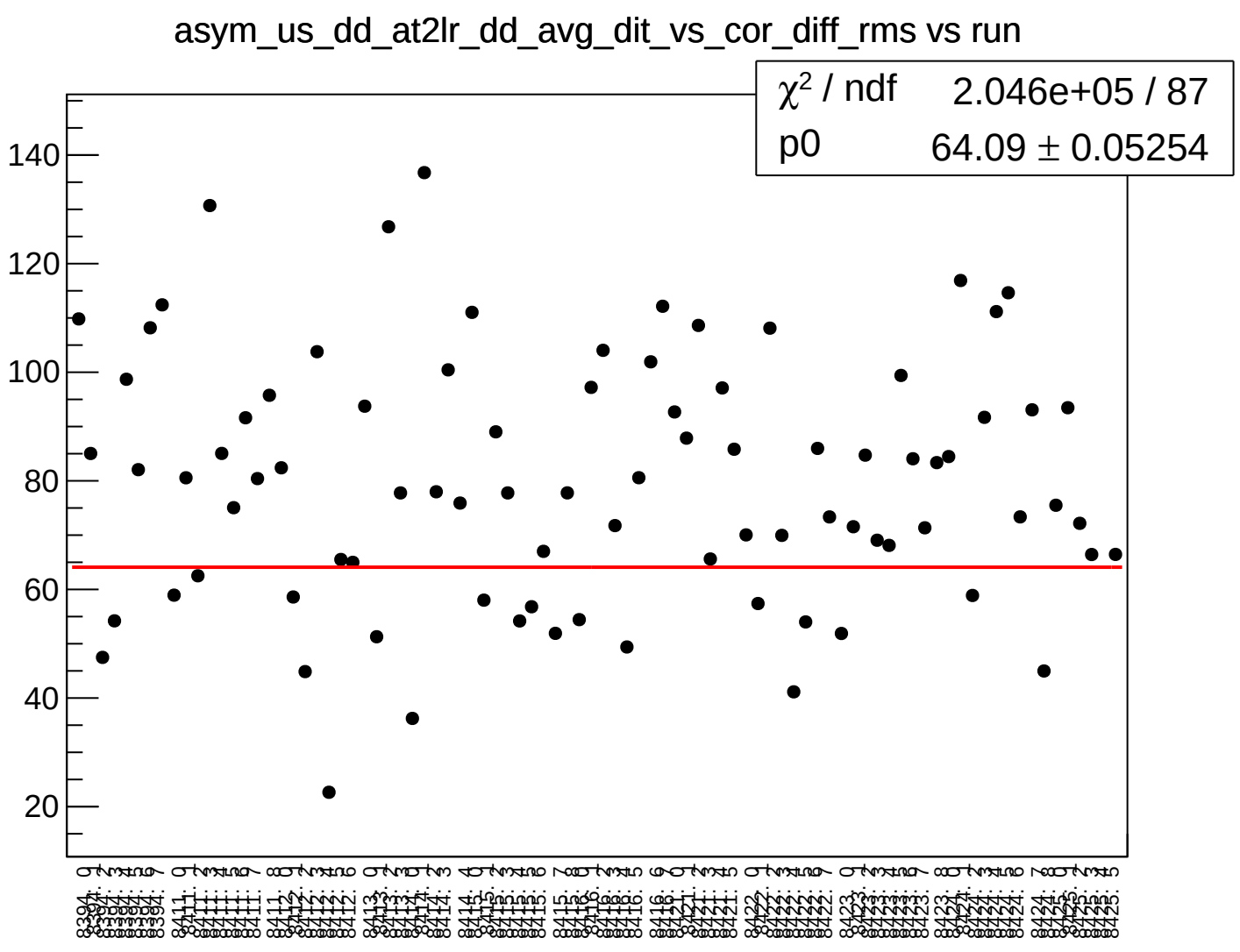

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1.324e+04 / 87
p0 4872 ± 3.759
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

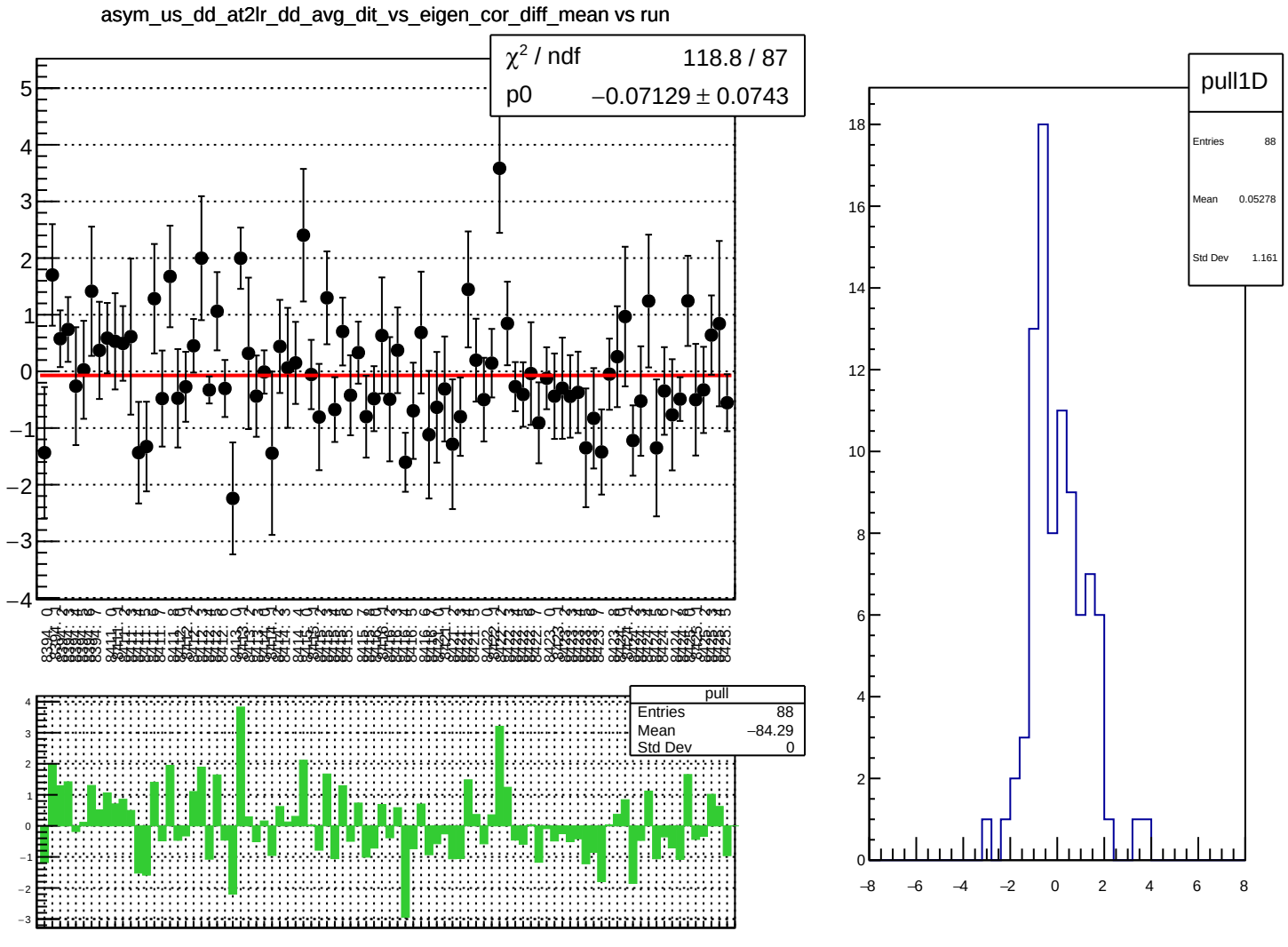

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.62 / 87
p0 2.628e−13 ± 4.473e−13
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 88
Mean 0.5583
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.0587
Std Dev 0.973
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

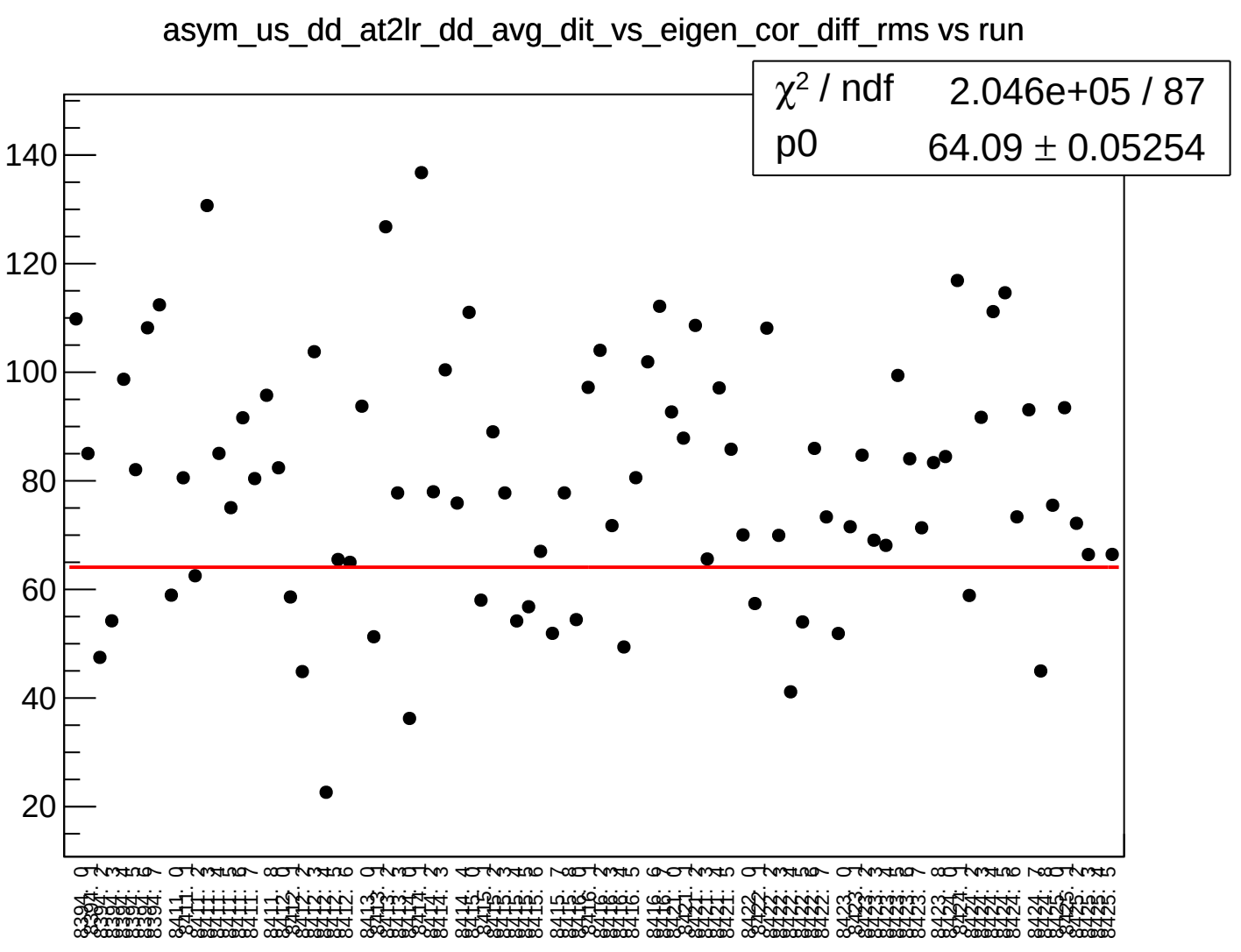

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.2e+06 / 87
p0 2.22e−10 ± 3.163e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

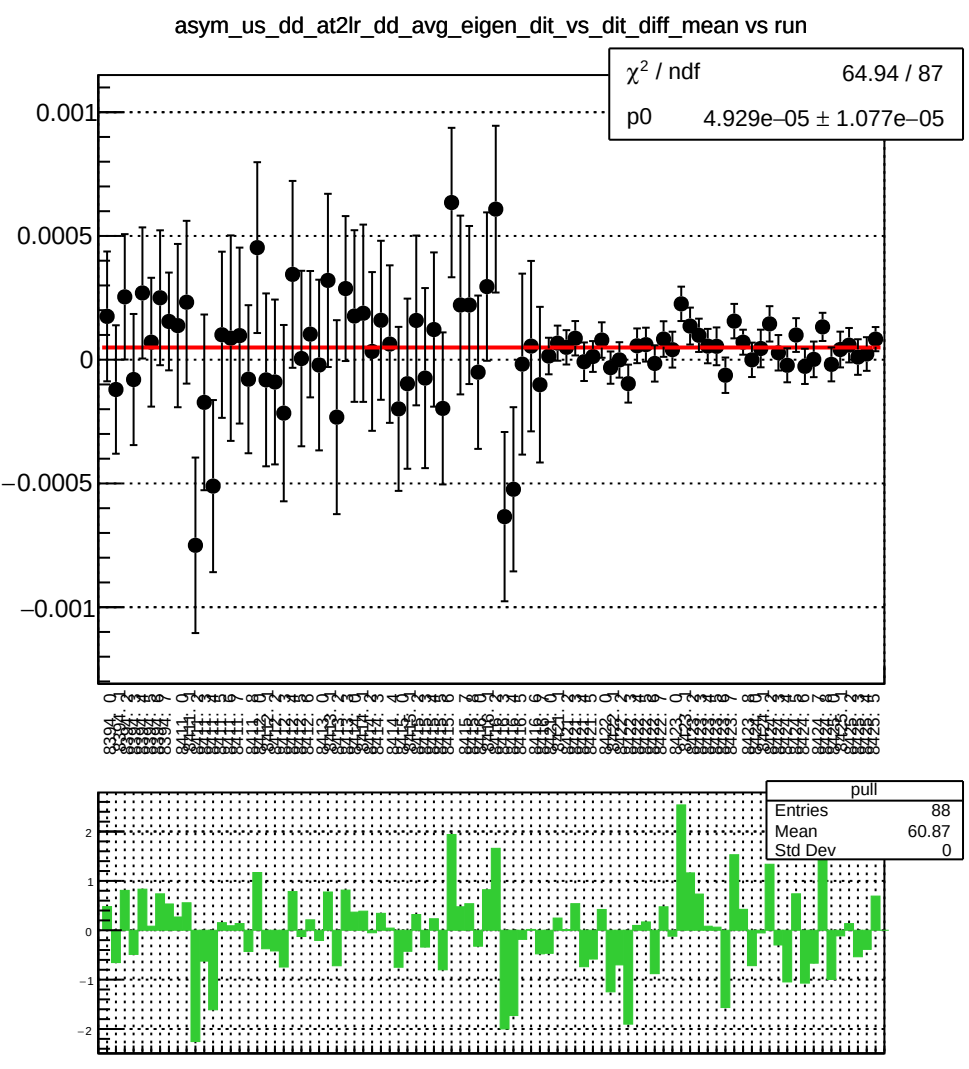

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 118.8 / 87
p0 −0.07129 ± 0.0743
pull
Entries 88
Mean −84.29
Std Dev 0

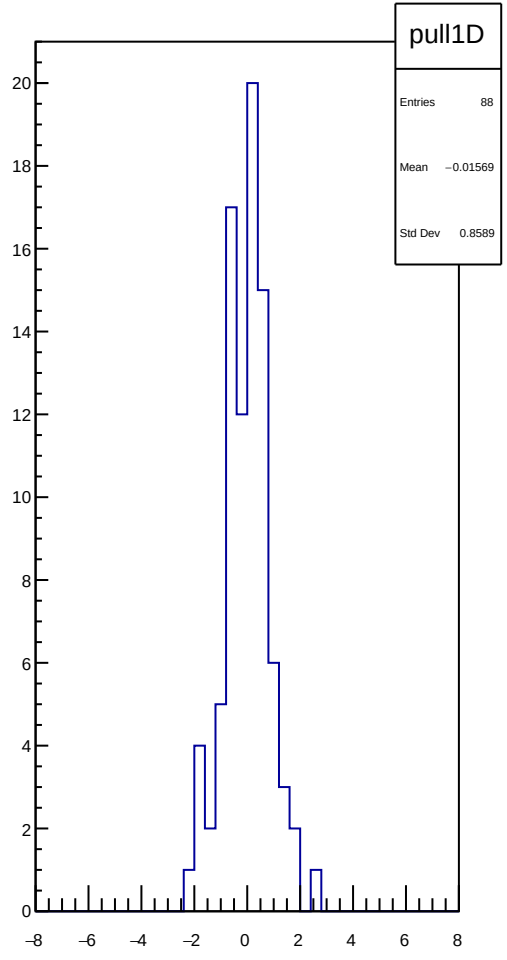

pull1D
Entries 88
Mean 0.05278
Std Dev 1.161

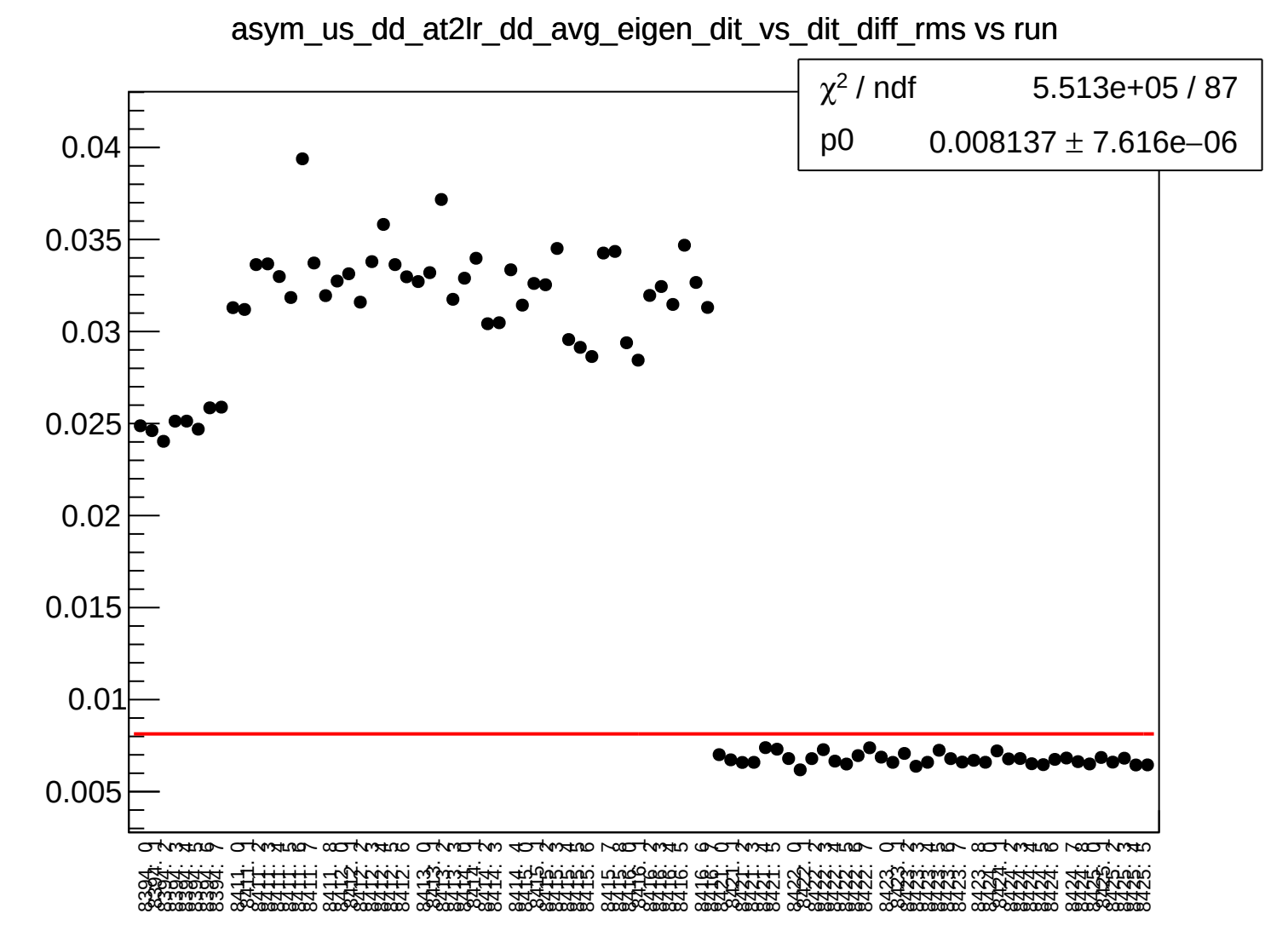

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.046e+05 / 87
p0 64.09 ± 0.05254
140
120
100
80
60
40
20

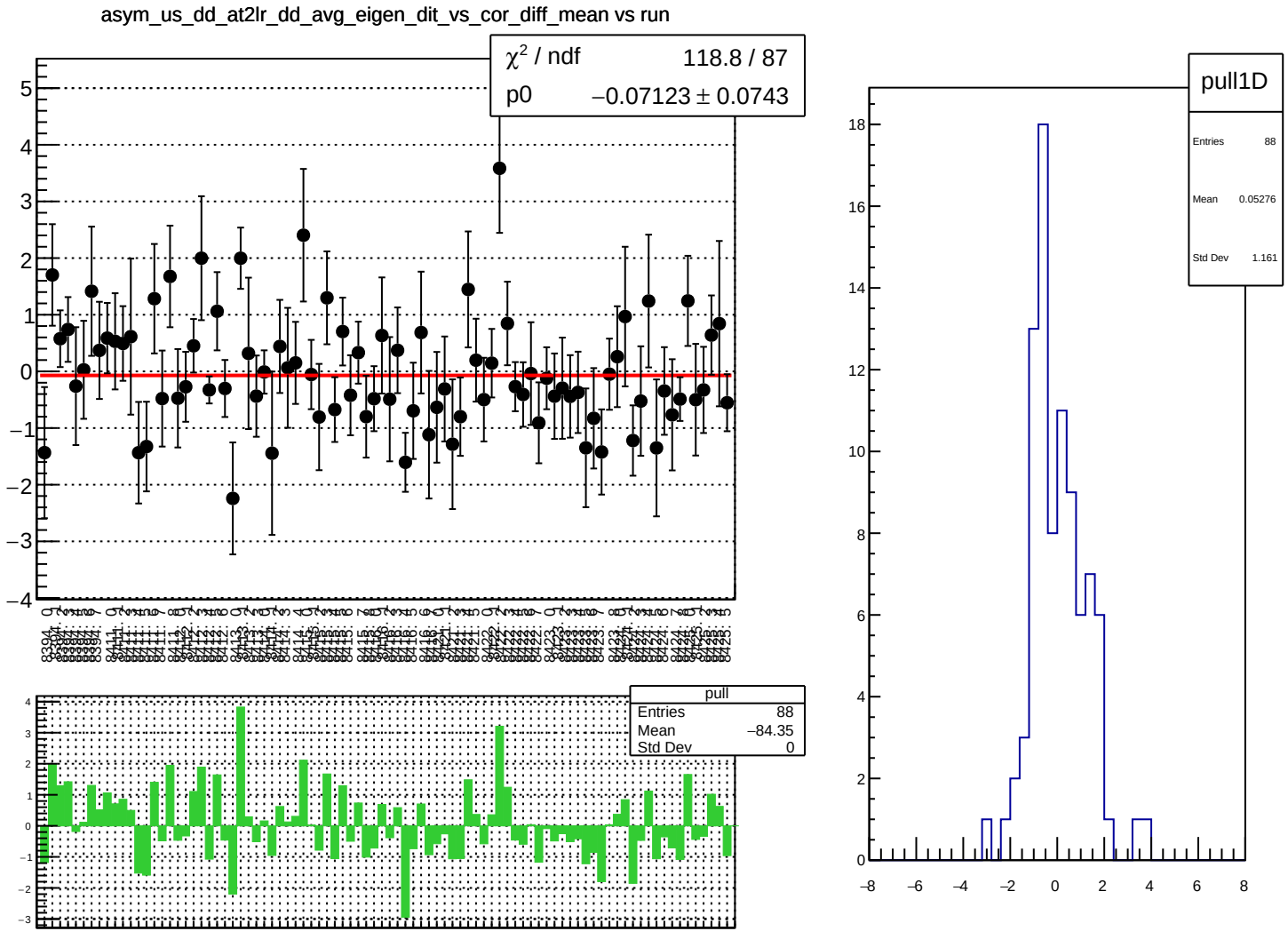

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 118.8 / 87
p0 −0.07129 ± 0.0743
pull
Entries 88
Mean −84.29
Std Dev 0
pull1D
Entries 88
Mean 0.05278
Std Dev 1.161

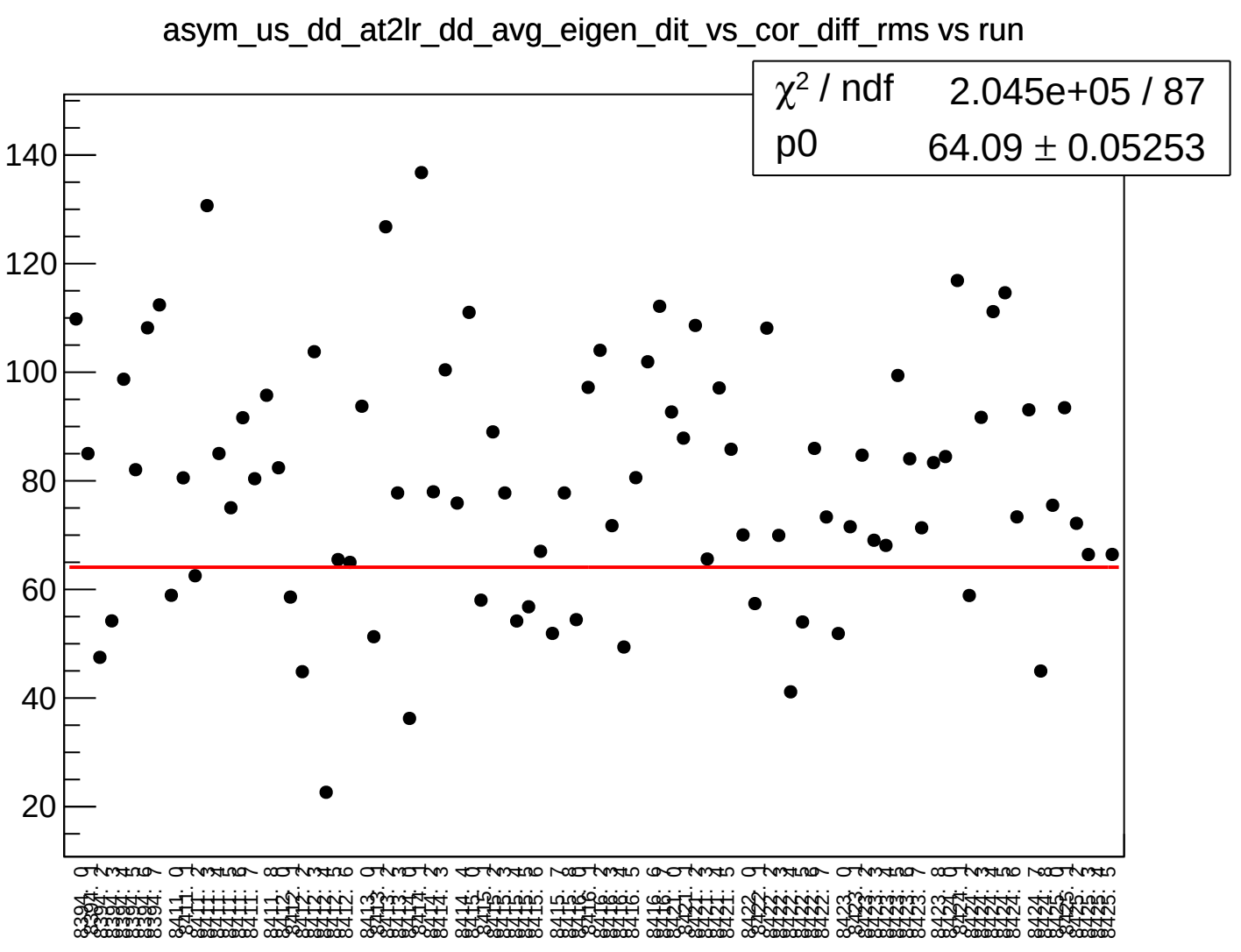

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.046e+05 / 87
p0 64.09 ± 0.05254
140
120
100
80
60
40
20

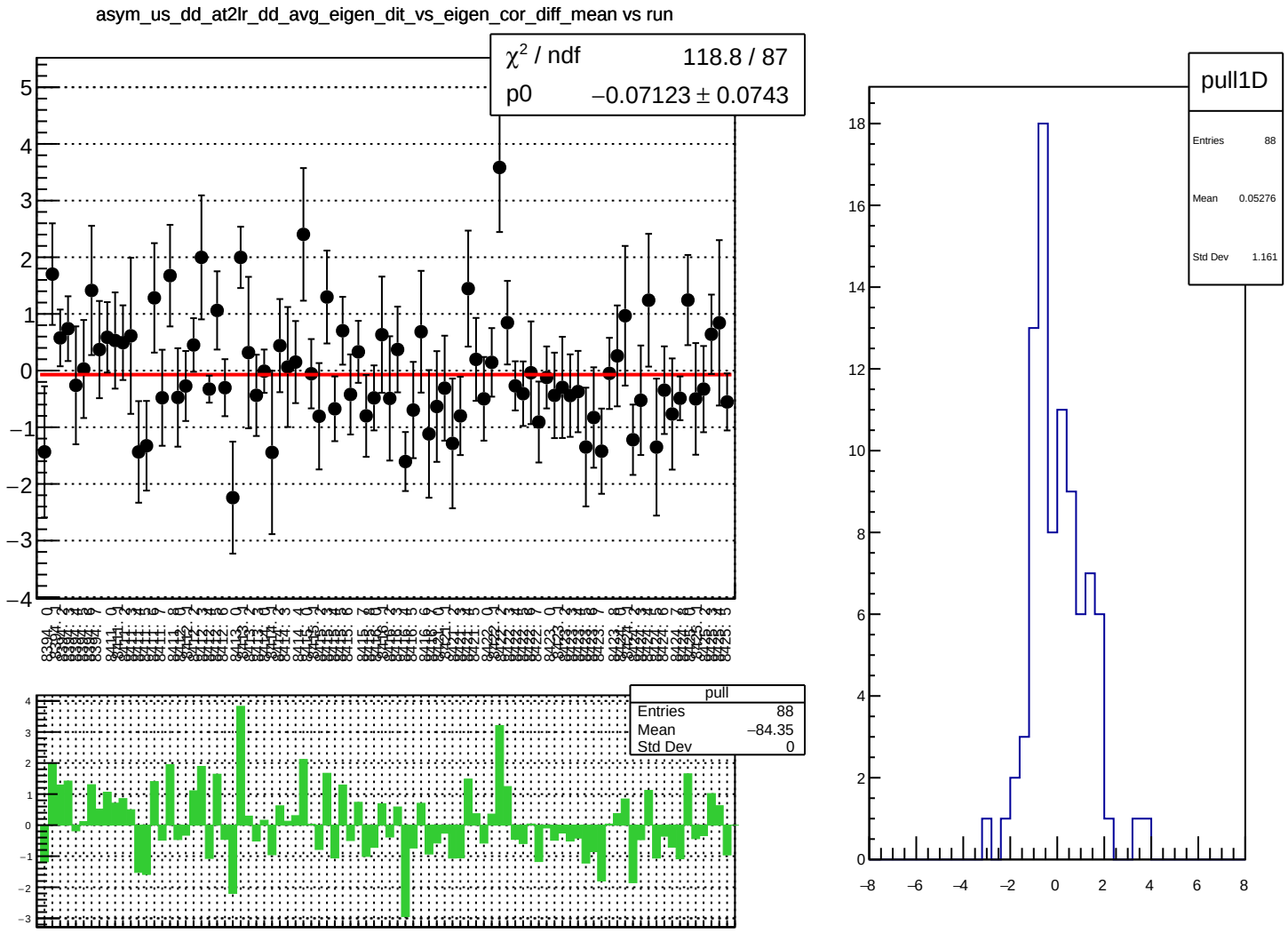

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 64.94 / 87
p0 4.929e−05 ± 1.077e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean 60.87
Std Dev 0
2
1
0
−1
−2

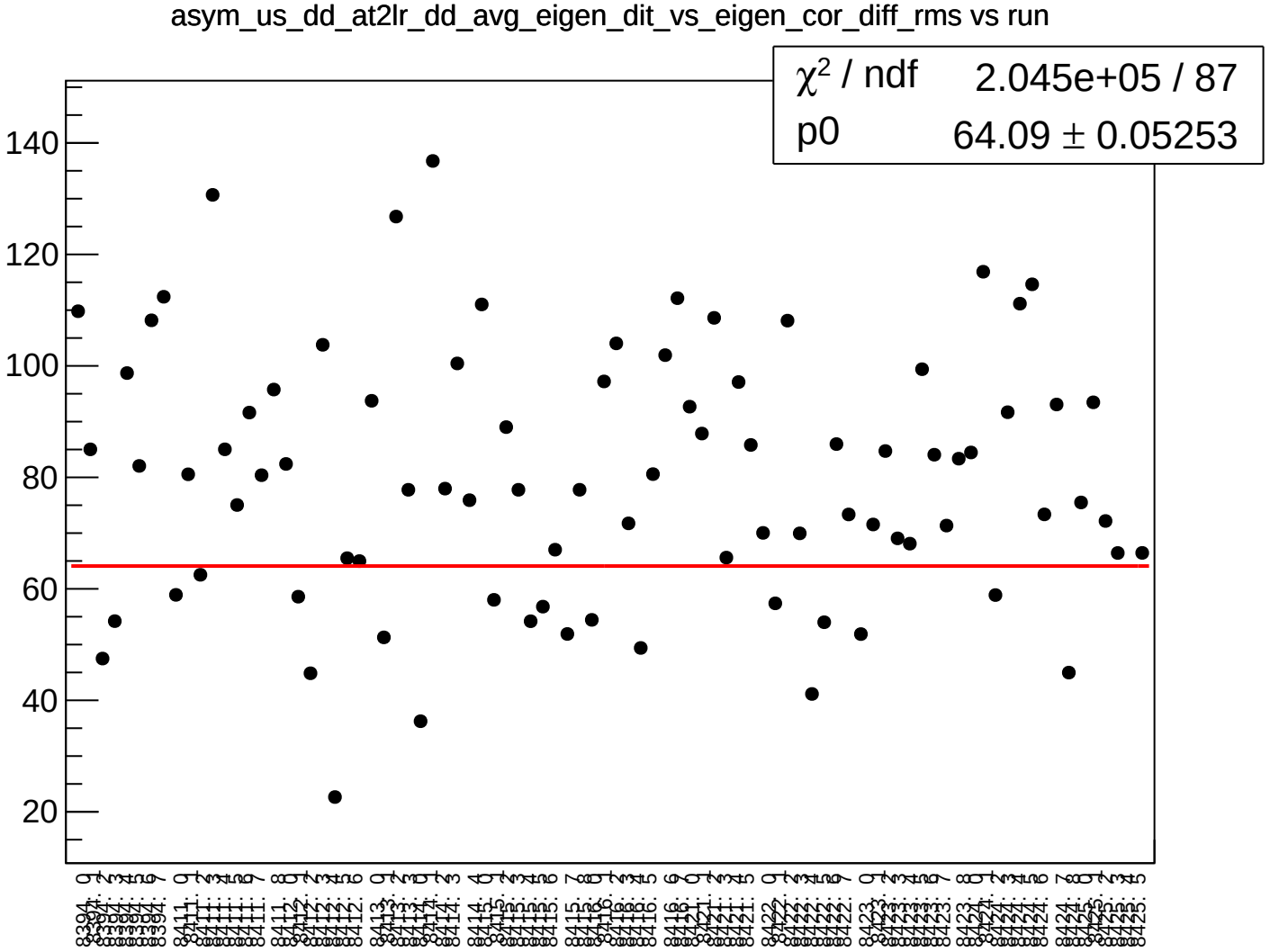

pull1D
Entries 88
Mean −0.01569
Std Dev 0.8589
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

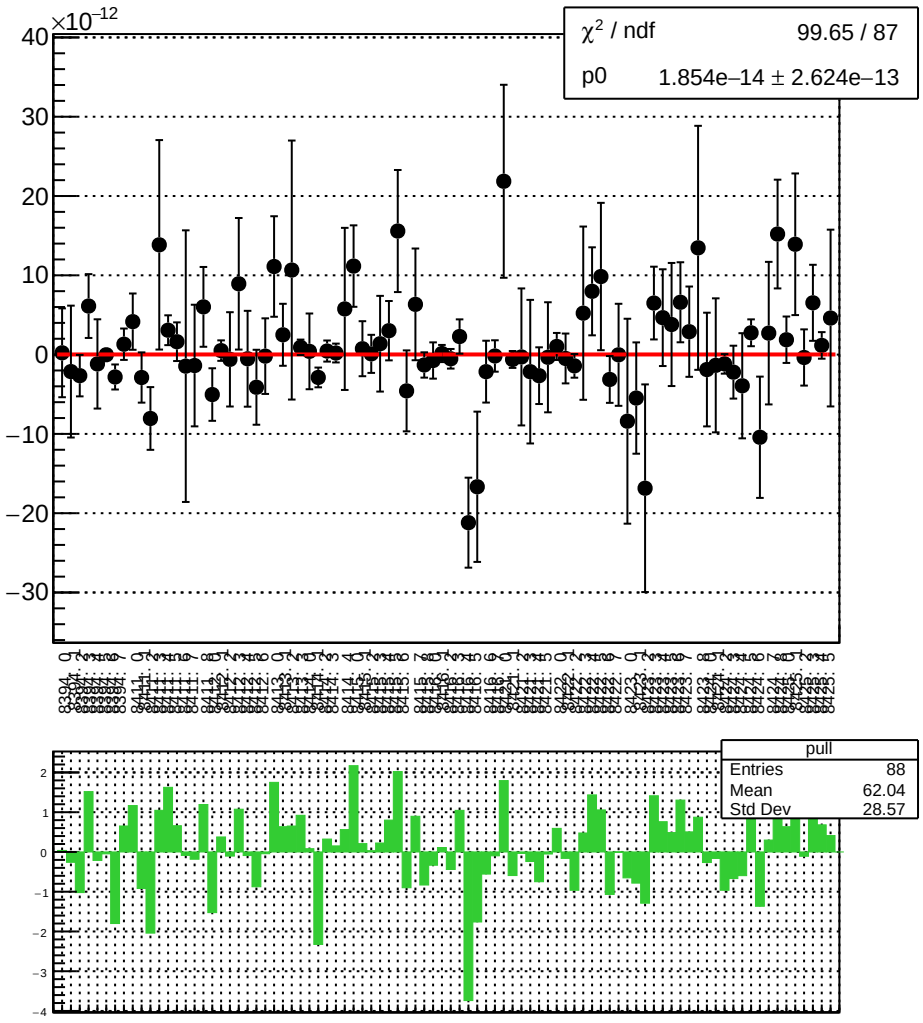

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.513e+05 / 87
p0 0.008137 ± 7.616e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

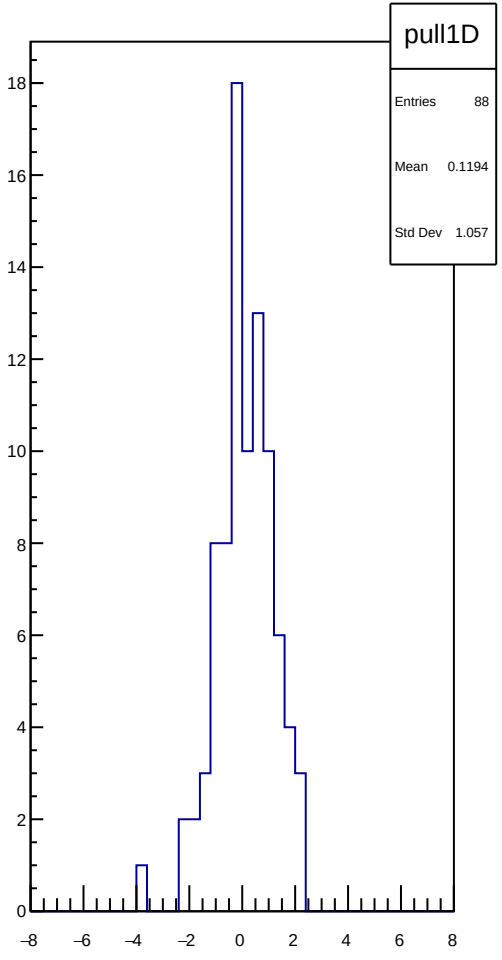

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 118.8 / 87
p0 −0.07123 ± 0.0743
pull
Entries 88
Mean −84.35
Std Dev 0
pull1D
Entries 88
Mean 0.05276
Std Dev 1.161

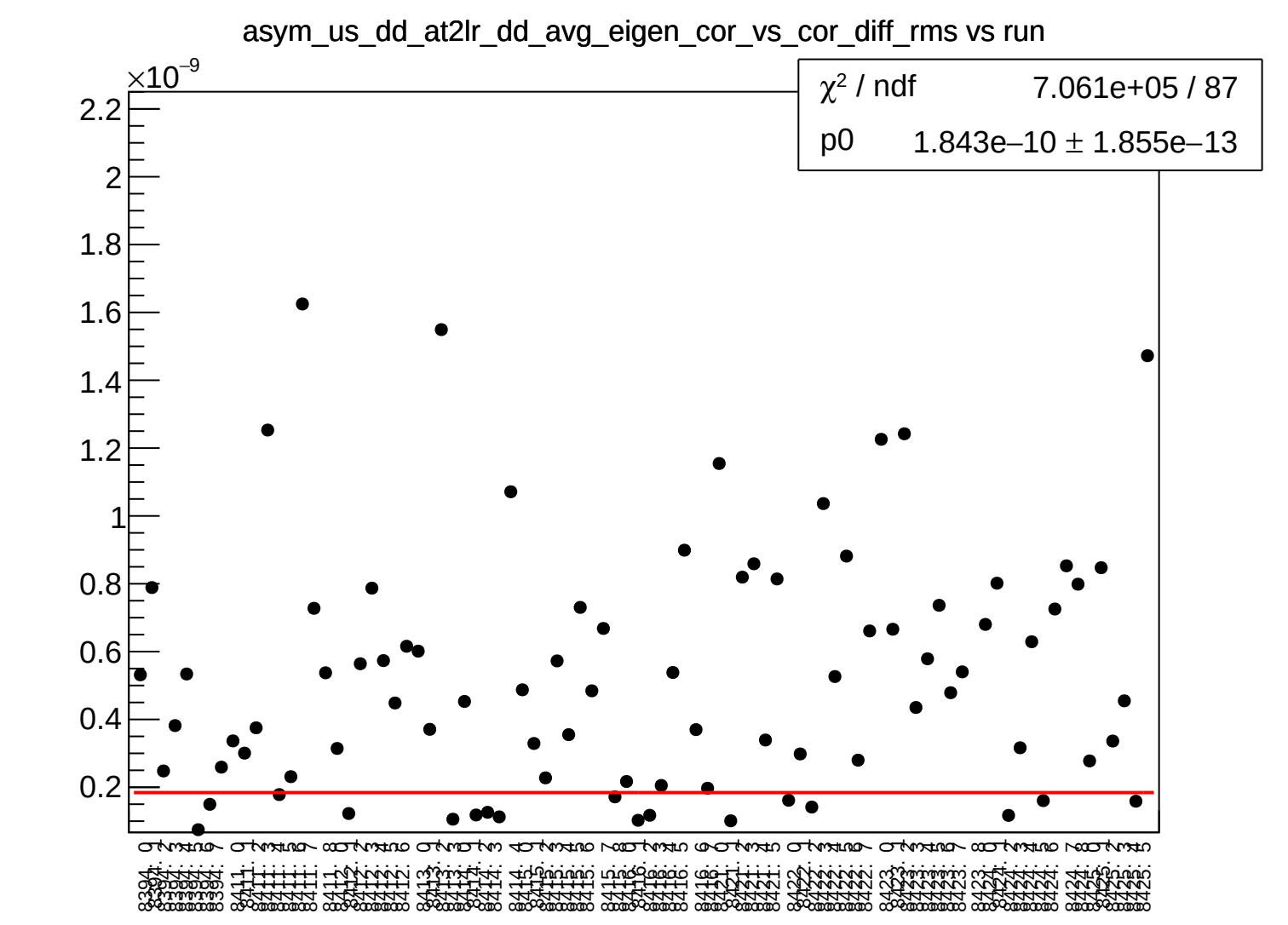

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.045e+05 / 87
p0 64.09 ± 0.05253
140
120
100
80
60
40
20

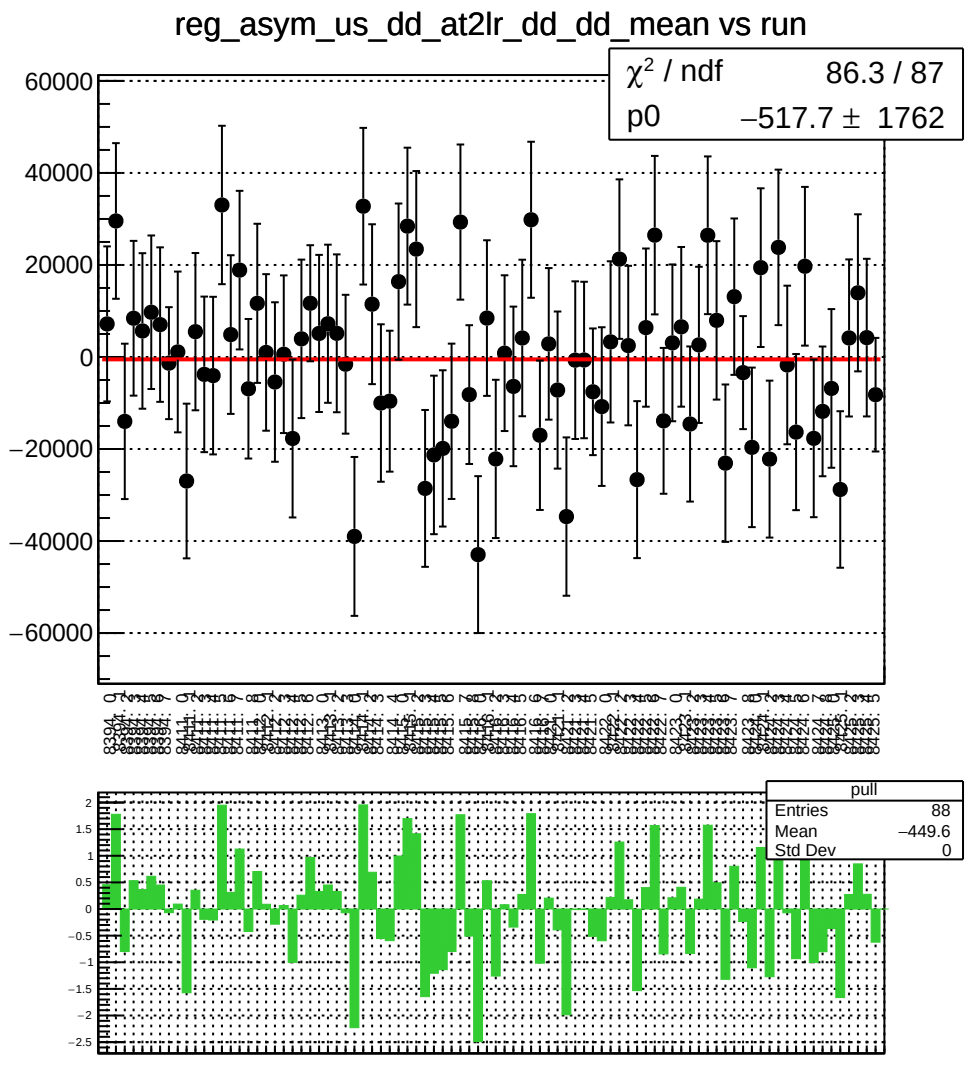

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 118.8 / 87
p0 −0.07123 ± 0.0743
pull
Entries 88
Mean −84.35
Std Dev 0
pull1D
Entries 88
Mean 0.05276
Std Dev 1.161

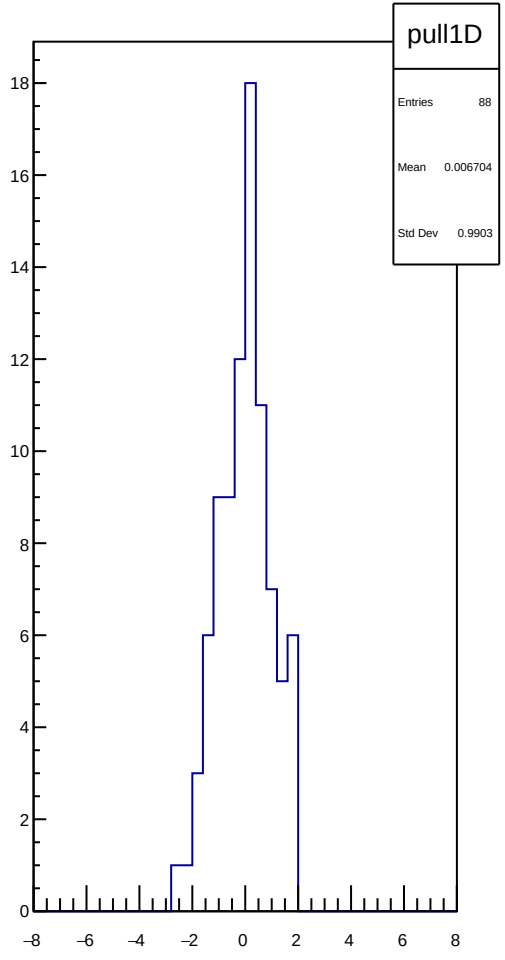

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.045e+05 / 87
p0 64.09 ± 0.05253
140
120
100
80
60
40
20

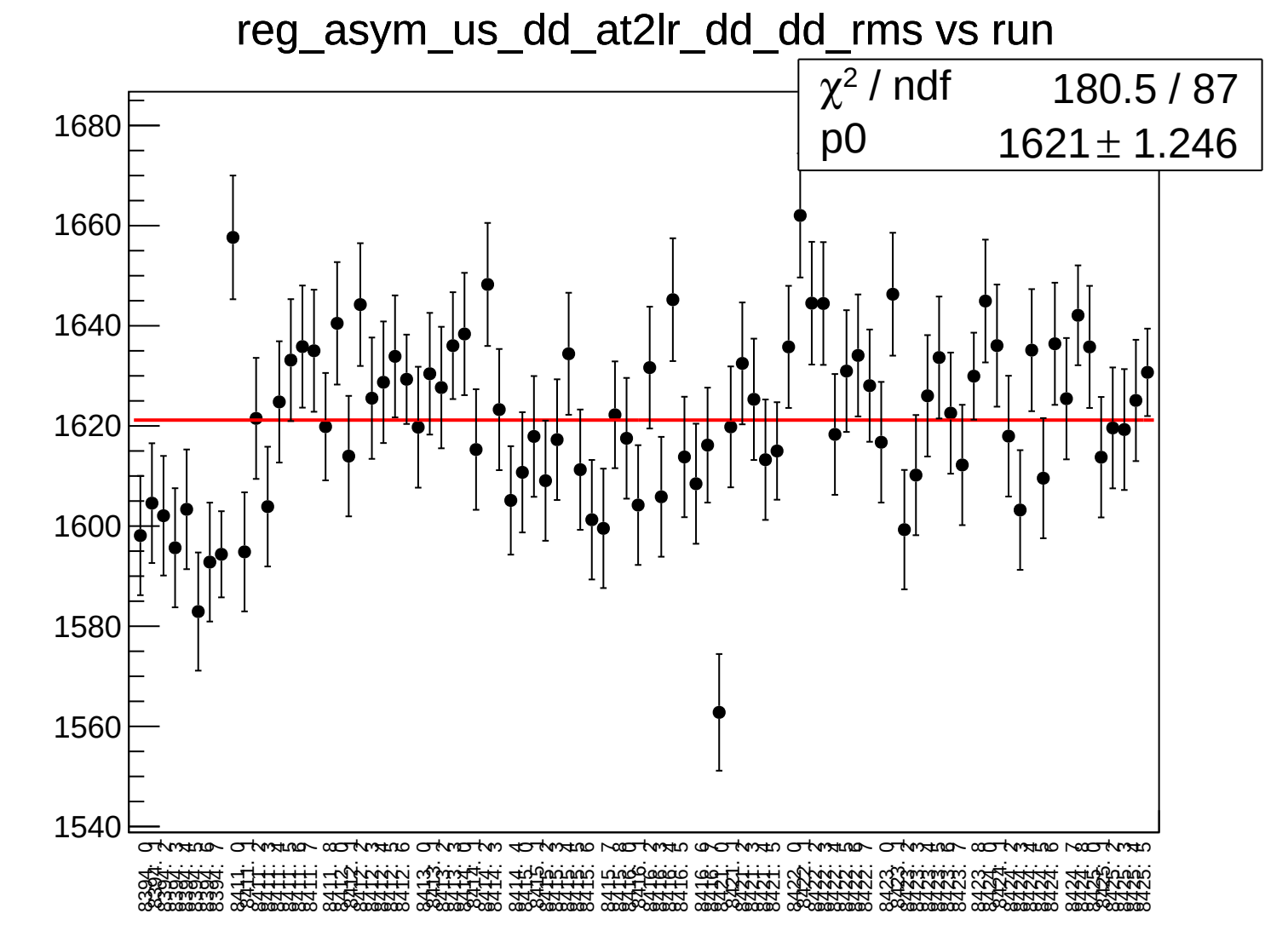

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.65 / 87
p0 1.854e−14 ± 2.624e−13
pull
Entries 88
Mean 62.04
Std Dev 28.57

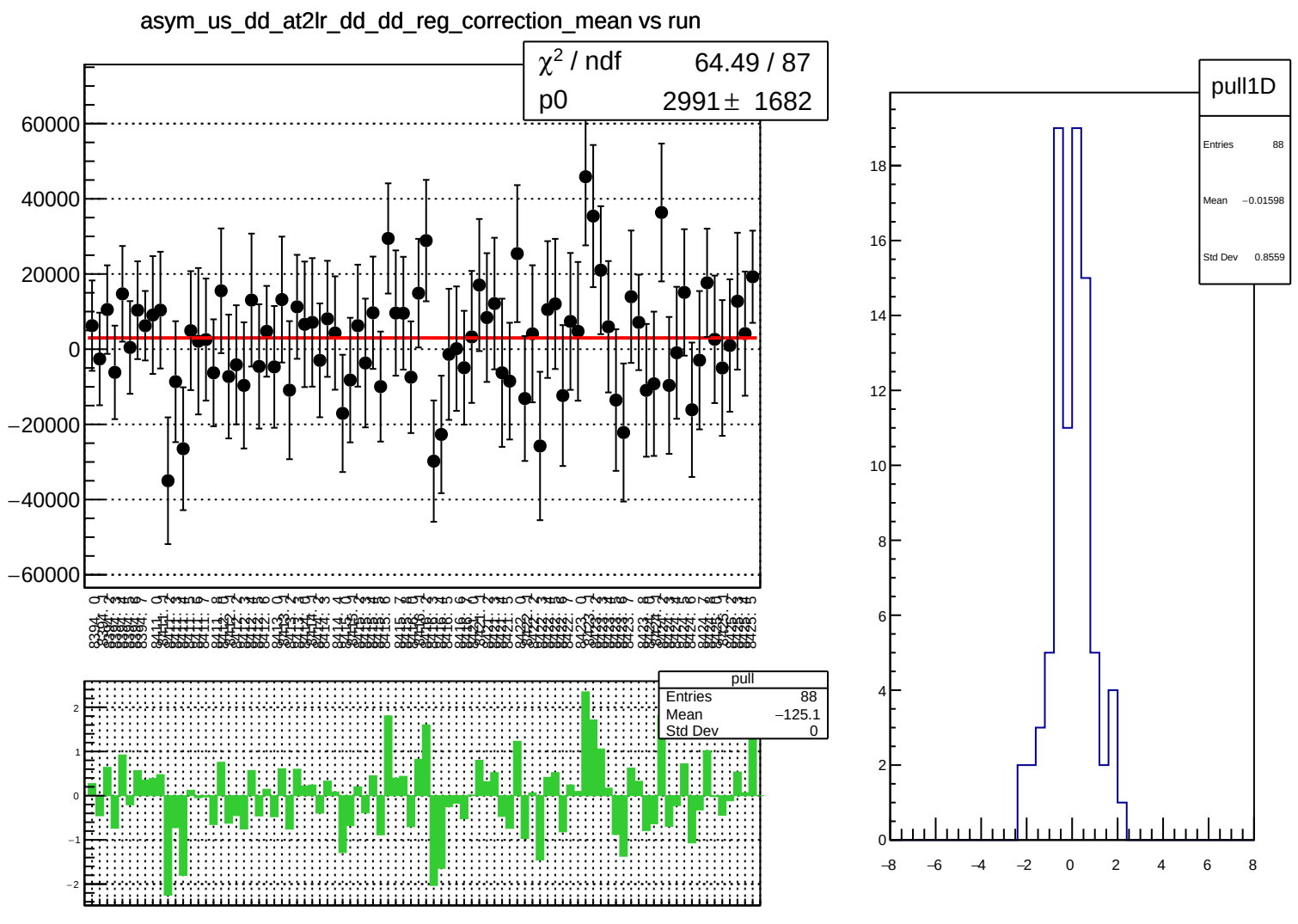

pull1D
Entries 88
Mean 0.1194
Std Dev 1.057

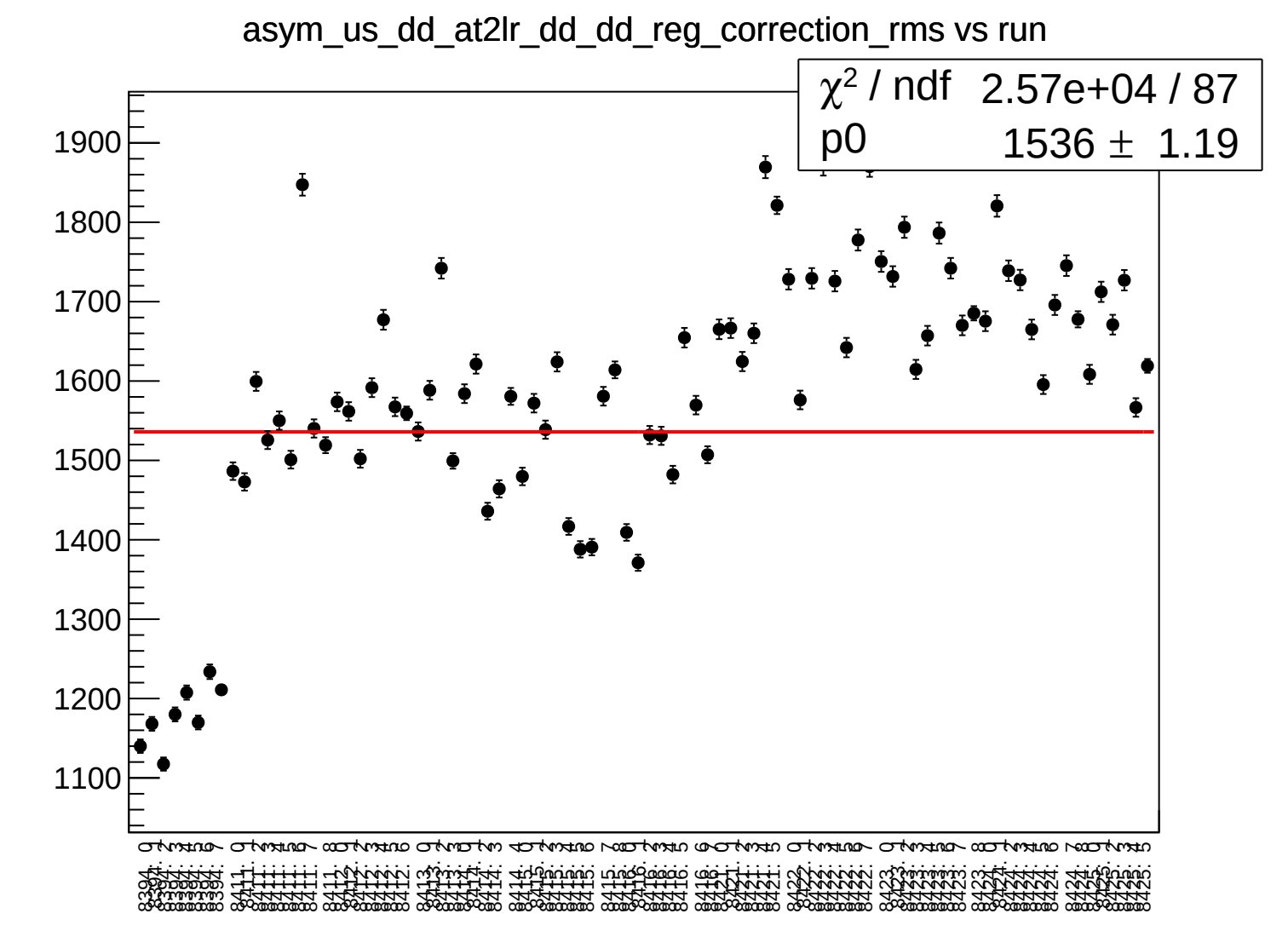

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.061e+05 / 87
p0 1.843e−10 ± 1.855e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

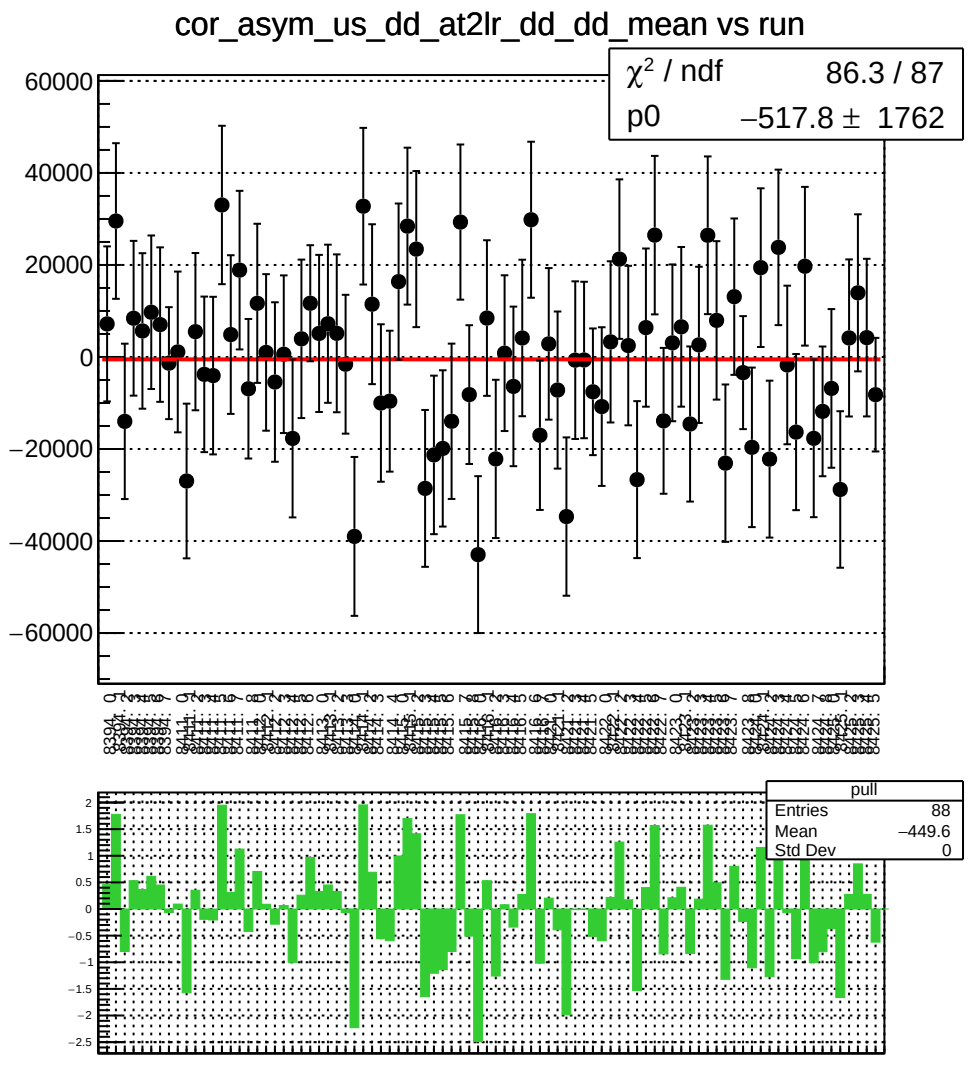

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 86.3 / 87
p0 −517.7 ± 1762
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −449.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

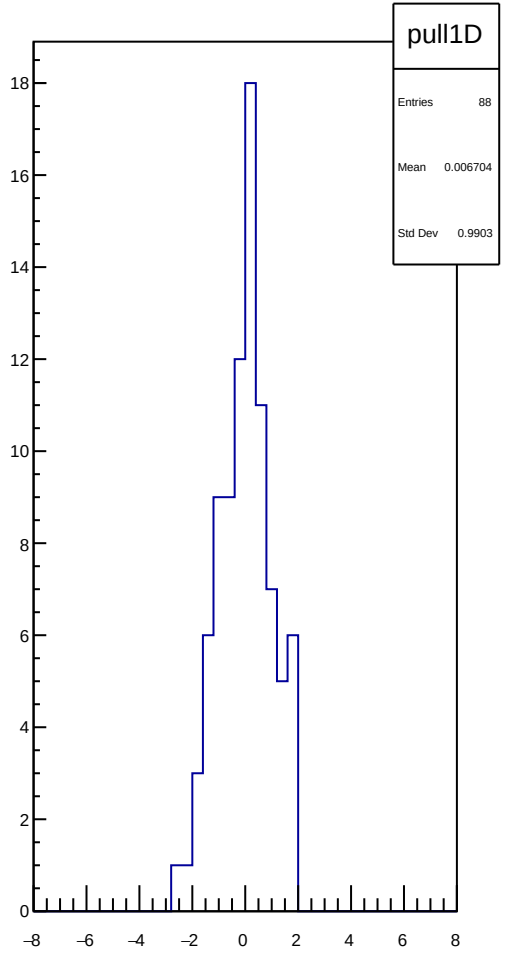

pull1D
Entries 88
Mean 0.006704
Std Dev 0.9903
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

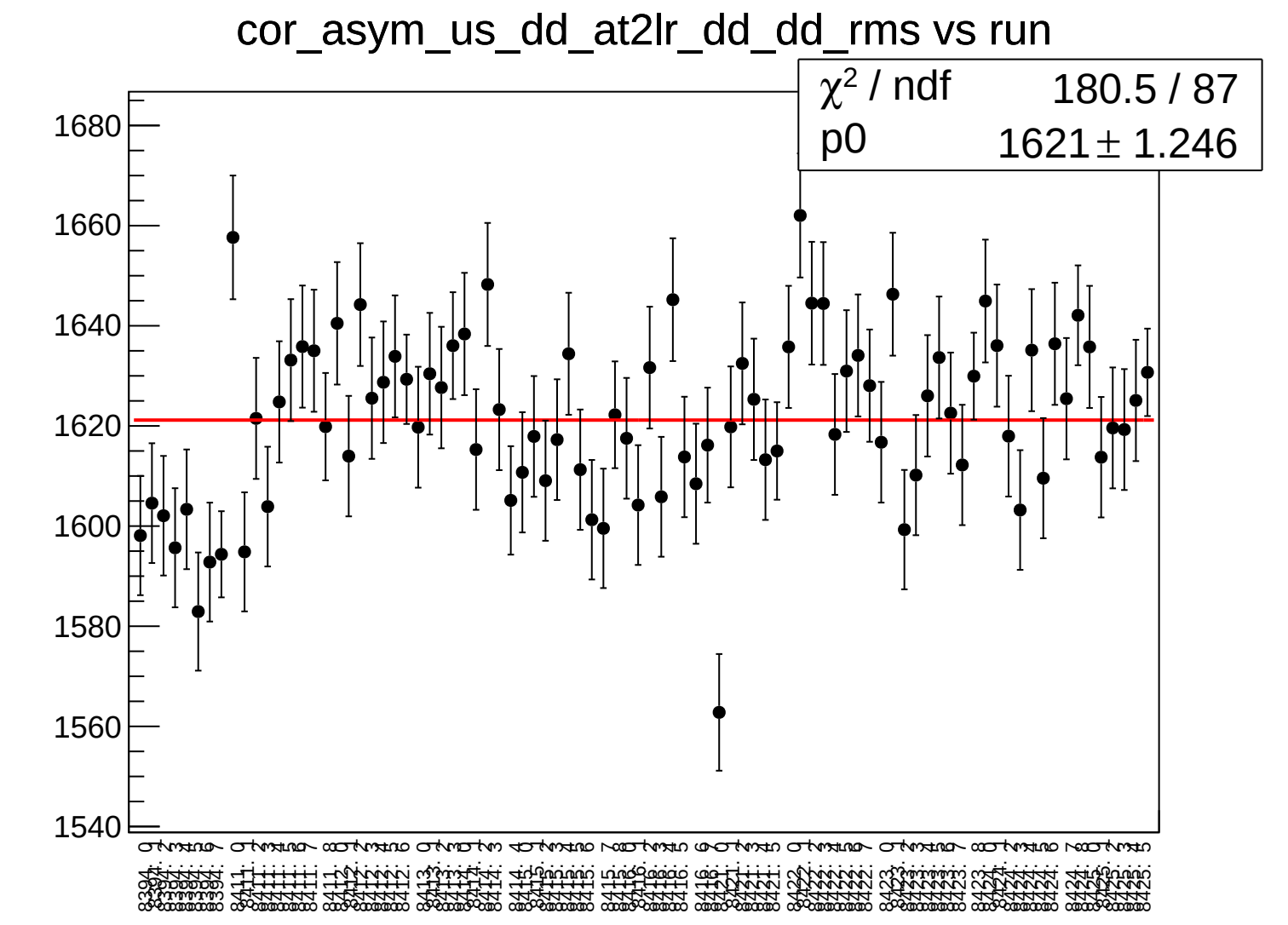

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 180.5 / 87
p0 1621 ± 1.246
1680
1660
1640
1620
1600
1580
1560
1540

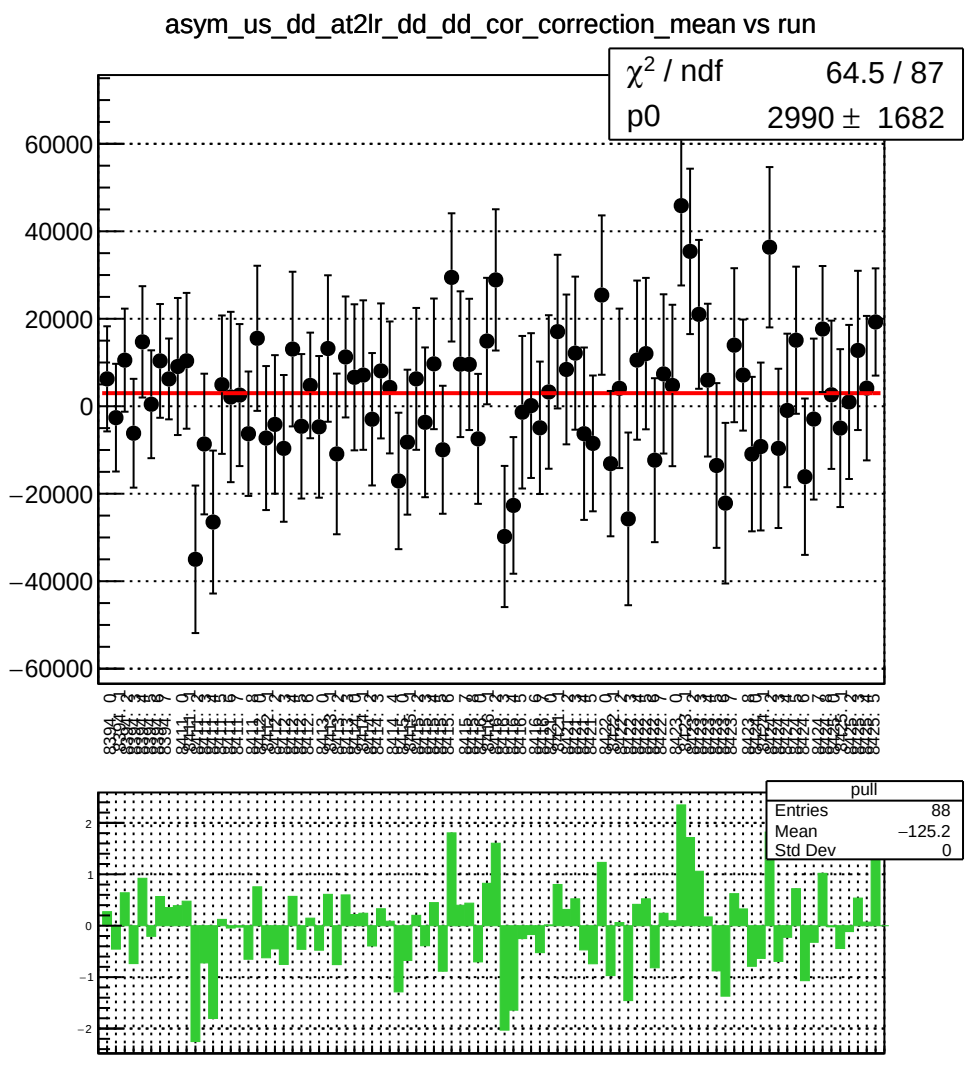

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 64.49 / 87
p0 2991 ± 1682
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −125.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01598
Std Dev 0.8559
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

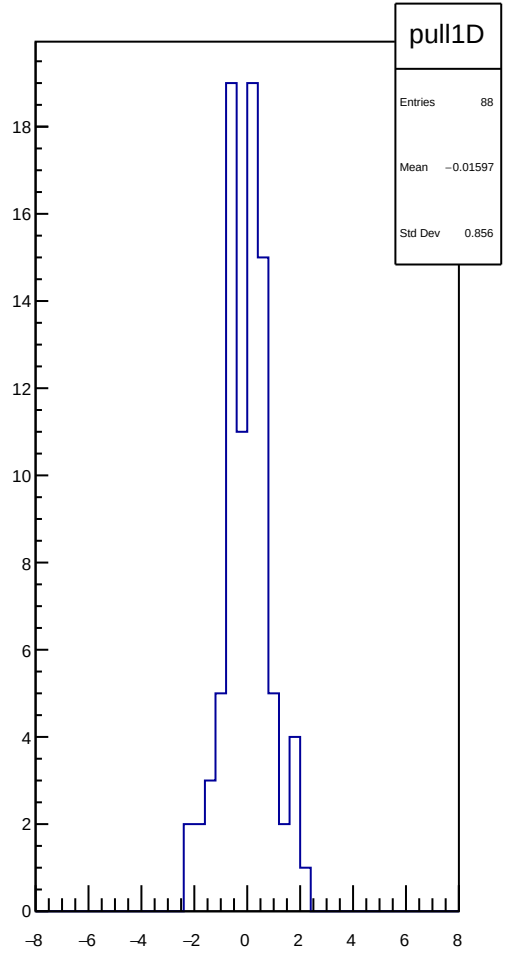

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 2.57e+04 / 87
p0 1536 ± 1.19
1900
1800
1700
1600
1500
1400
1300
1200
1100

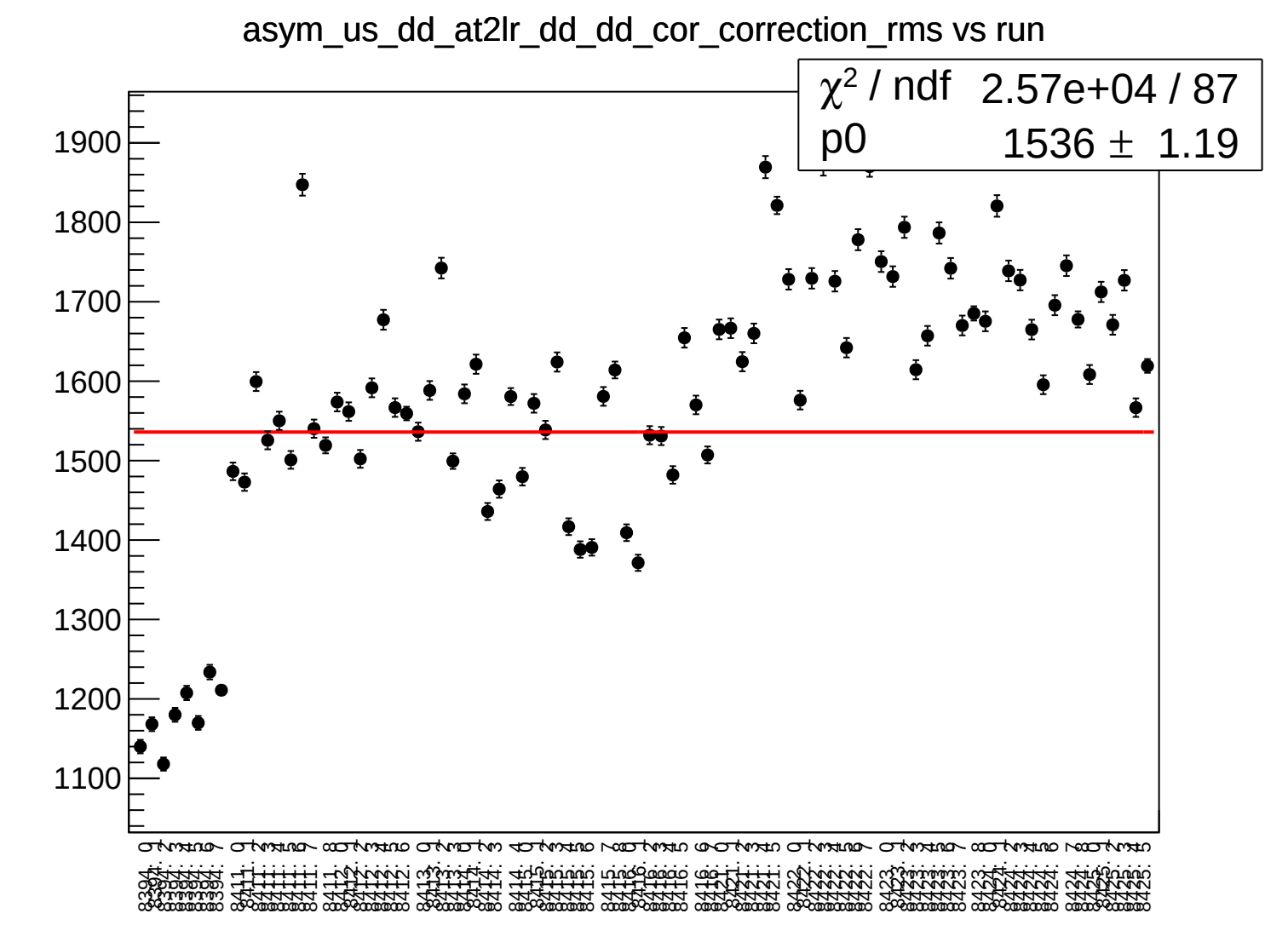

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 86.3 / 87
p0 −517.8 ± 1762
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −449.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

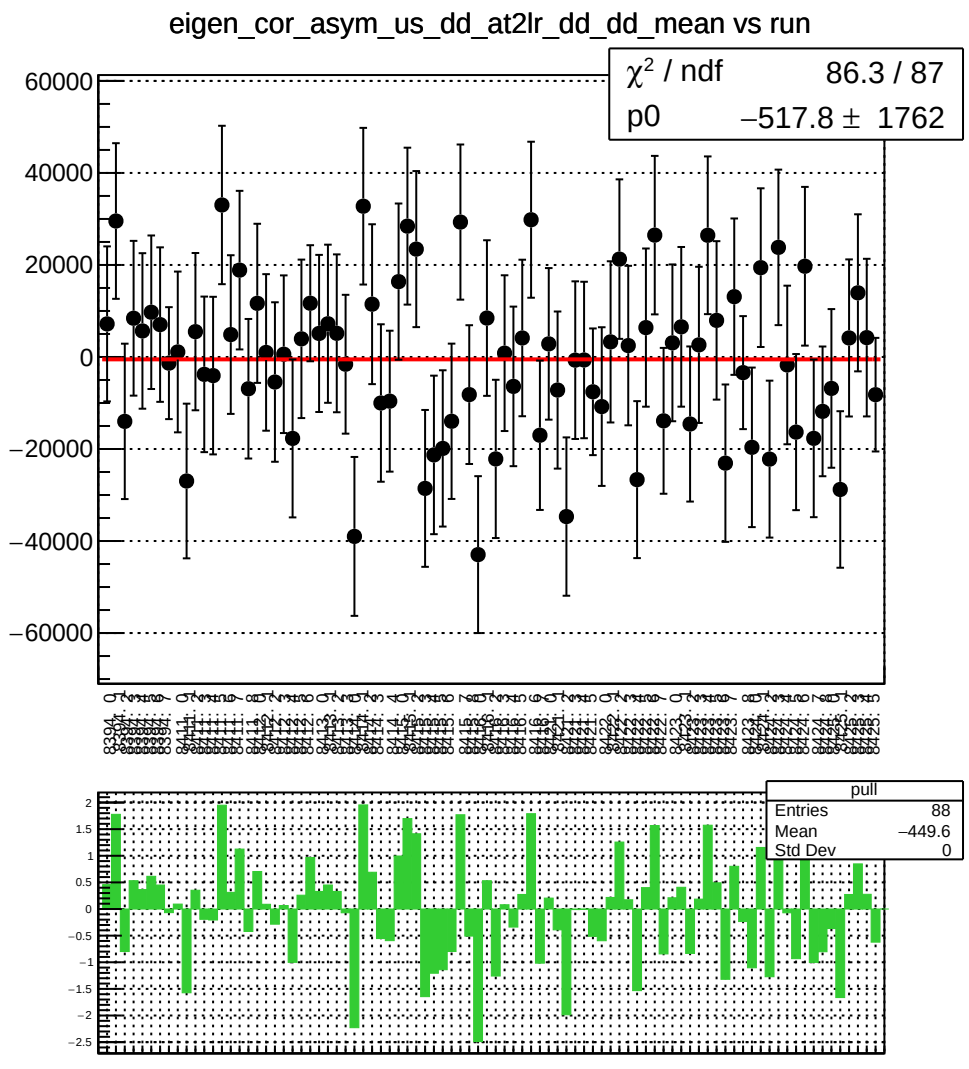

pull1D
Entries 88
Mean 0.006704
Std Dev 0.9903
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

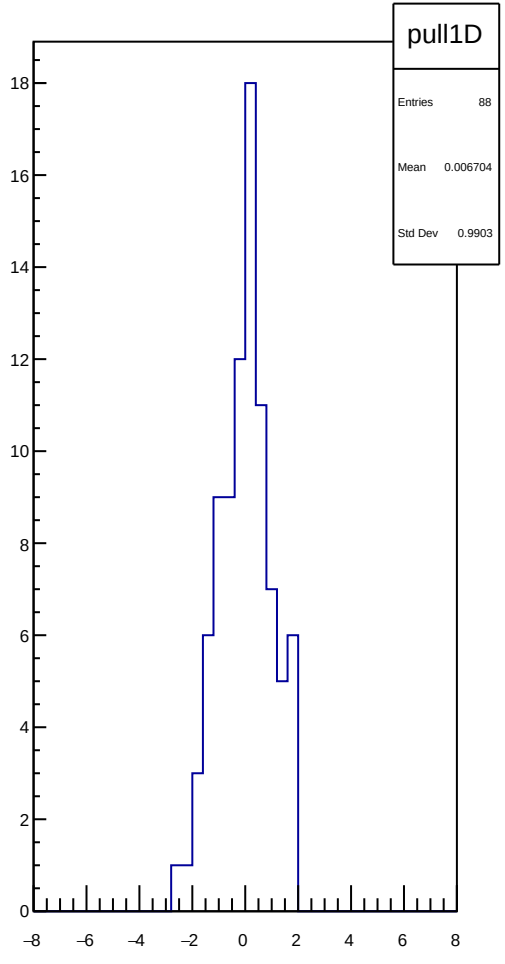

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 180.5 / 87
p0 1621 ± 1.246
1680
1660
1640
1620
1600
1580
1560
1540

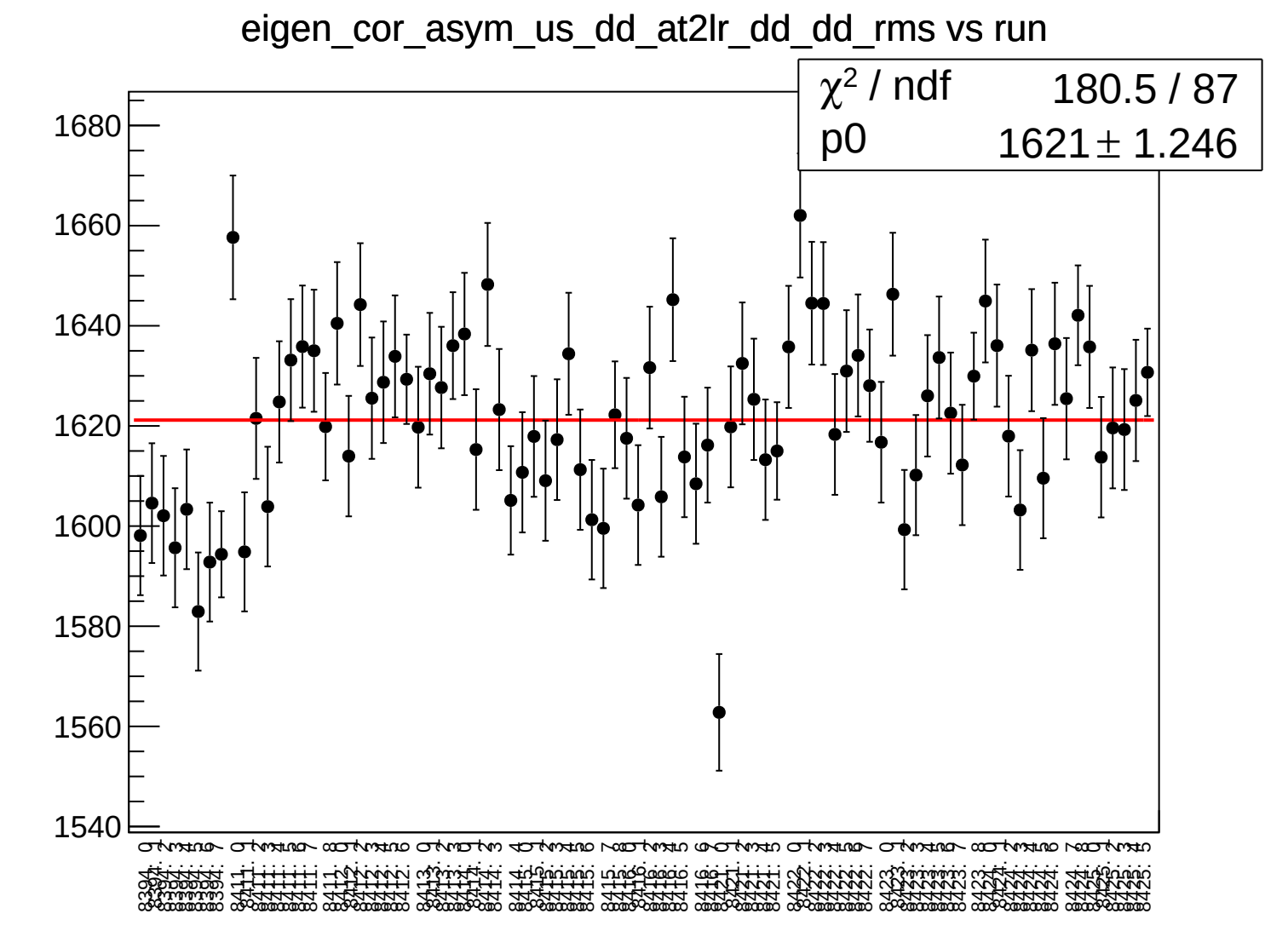

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 64.5 / 87
p0 2990 ± 1682
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −125.2
Std Dev 0
2
1
0
−1
−2

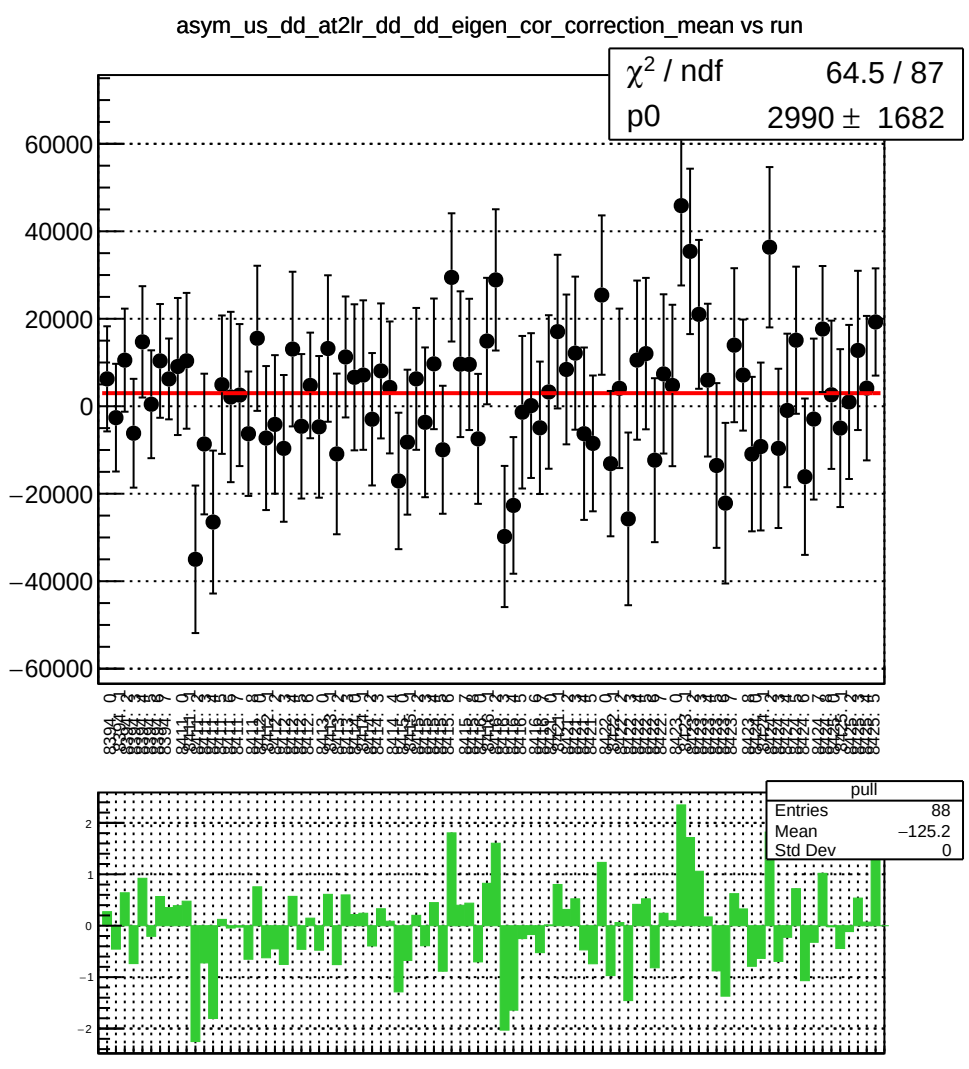

pull1D
Entries 88
Mean −0.01597
Std Dev 0.856
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

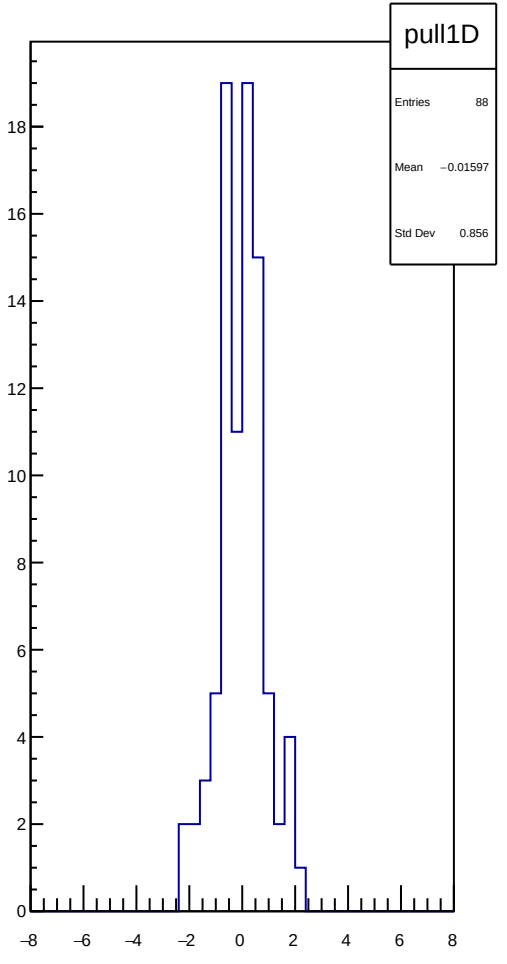

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 2.57e+04 / 87
p0 1536 ± 1.19
1900
1800
1700
1600
1500
1400
1300
1200
1100

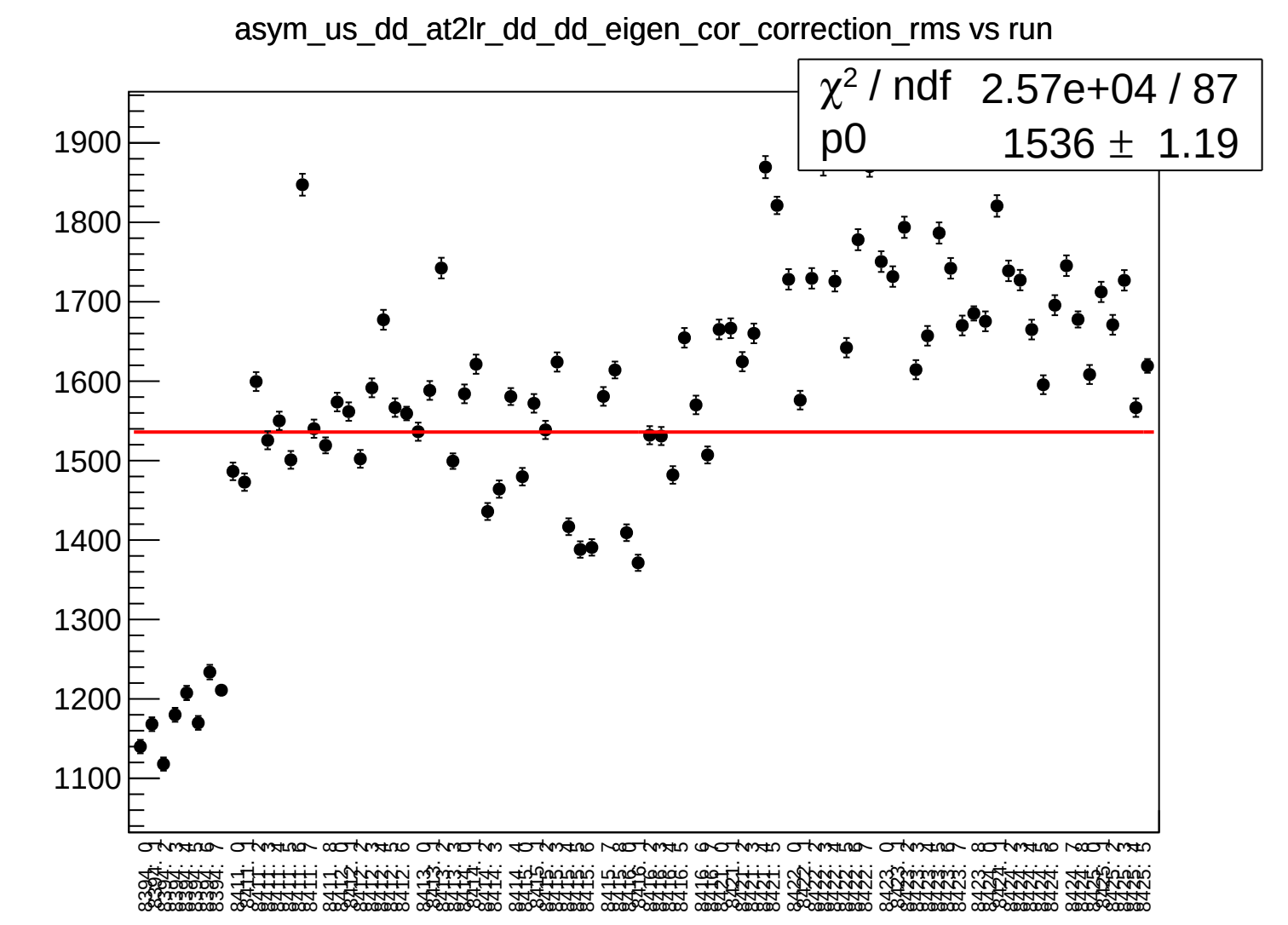

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 86.3 / 87
p0 −517.8 ± 1762
pull
Entries 88
Mean −449.6
Std Dev 0

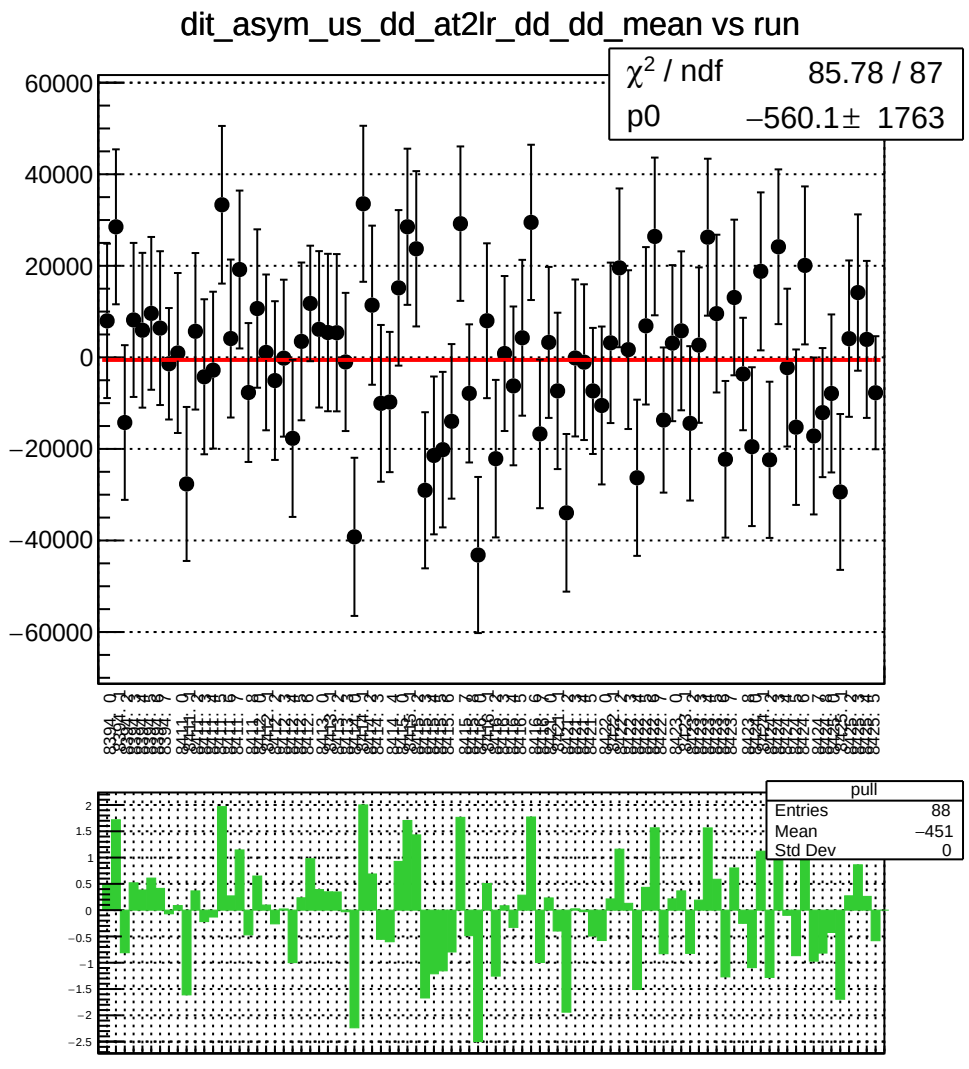

pull1D
Entries 88
Mean 0.006704
Std Dev 0.9903

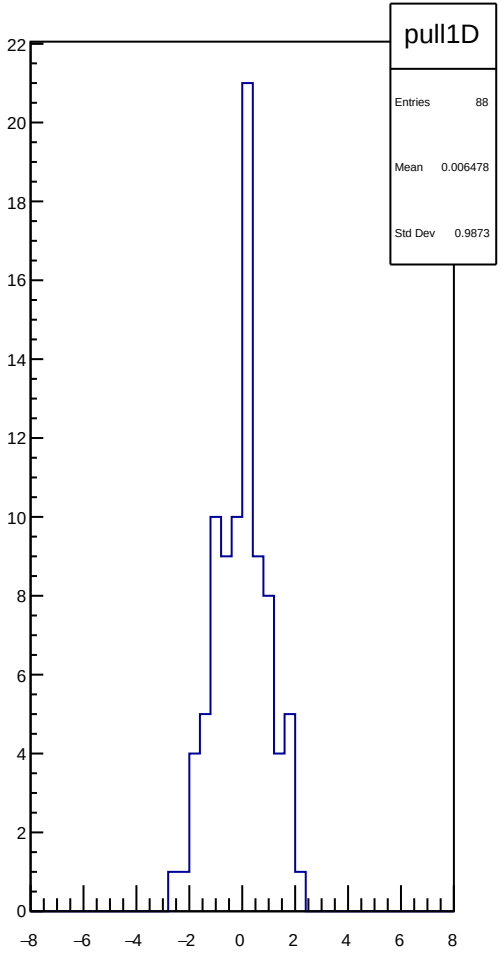

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 180.5 / 87
p0 1621 ± 1.246
1680
1660
1640
1620
1600
1580
1560
1540

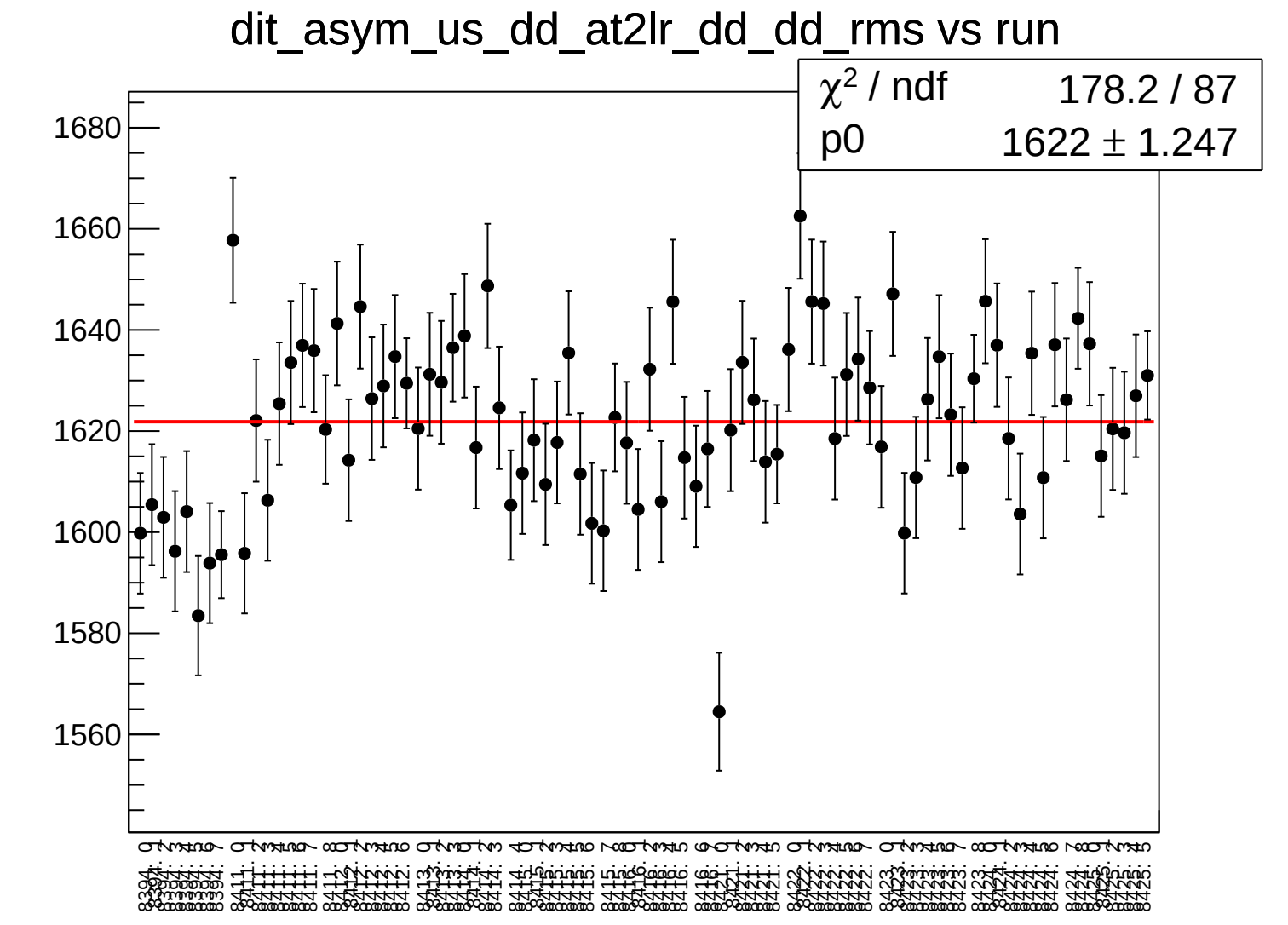

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 64.5 / 87
p0 2990 ± 1682
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −125.2
Std Dev 0
2
1
0
−1
−2

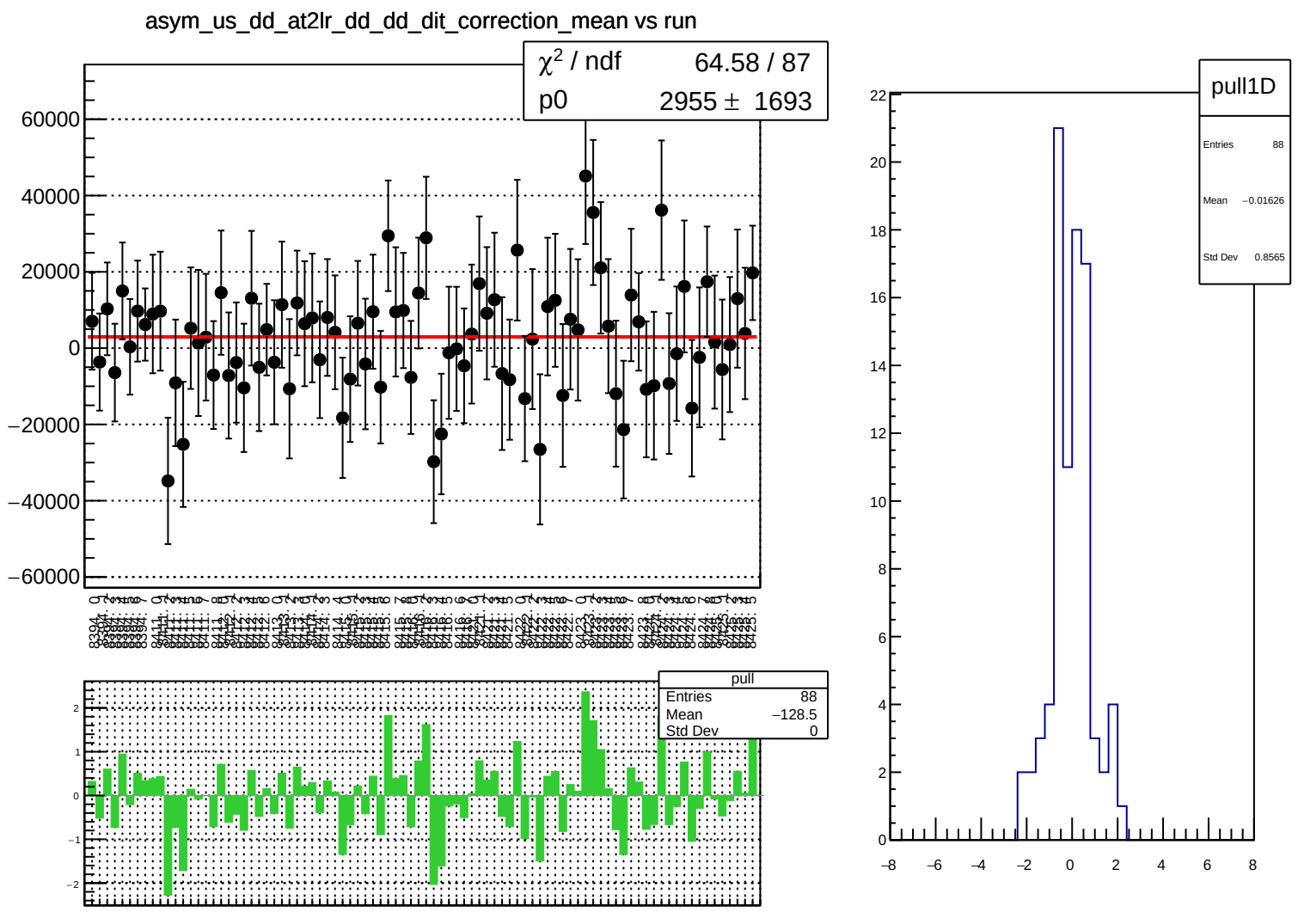

pull1D
Entries 88
Mean −0.01597
Std Dev 0.856
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

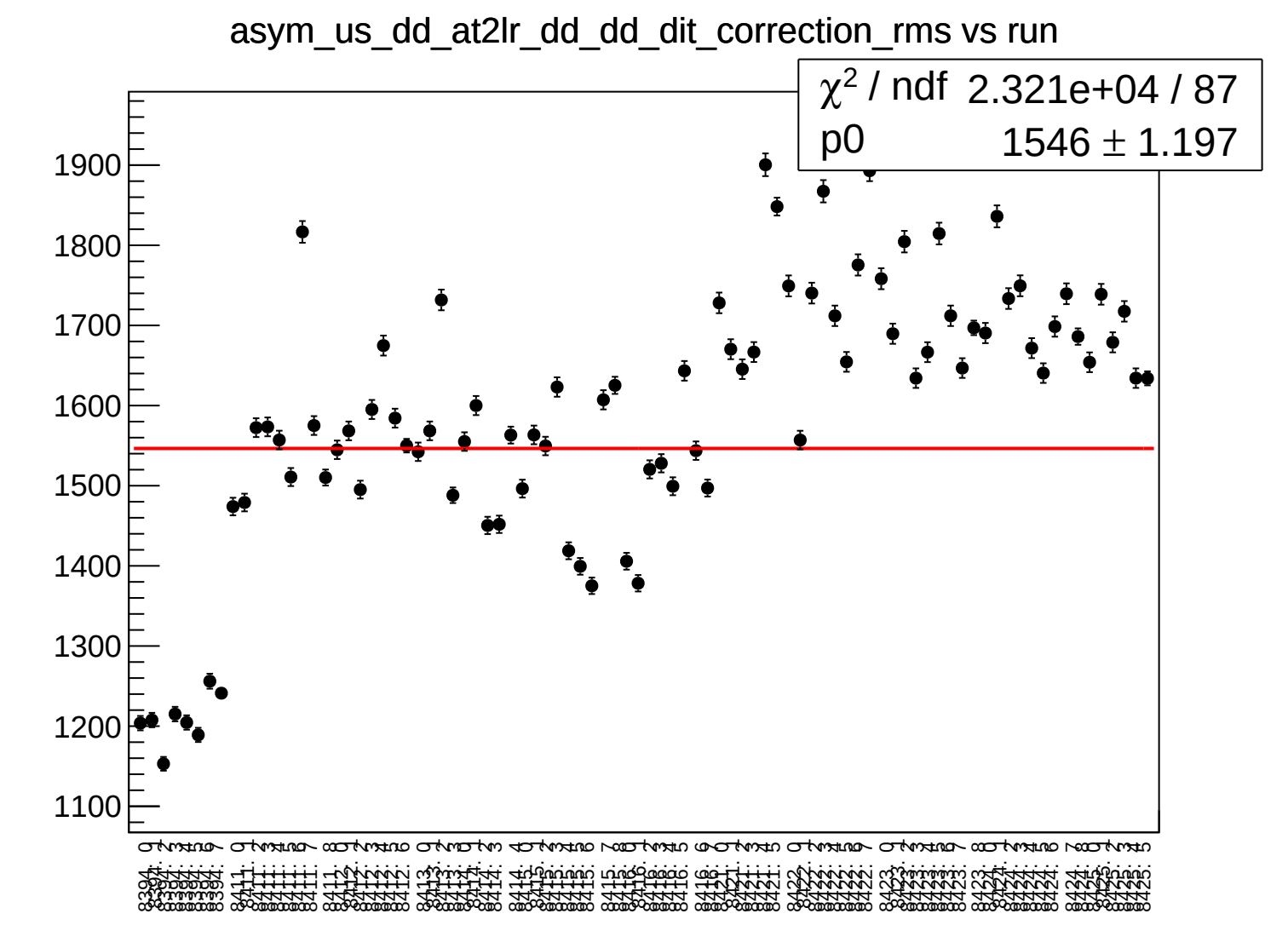

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.57e+04 / 87
p0 1536 ± 1.19
1900
1800
1700
1600
1500
1400
1300
1200
1100

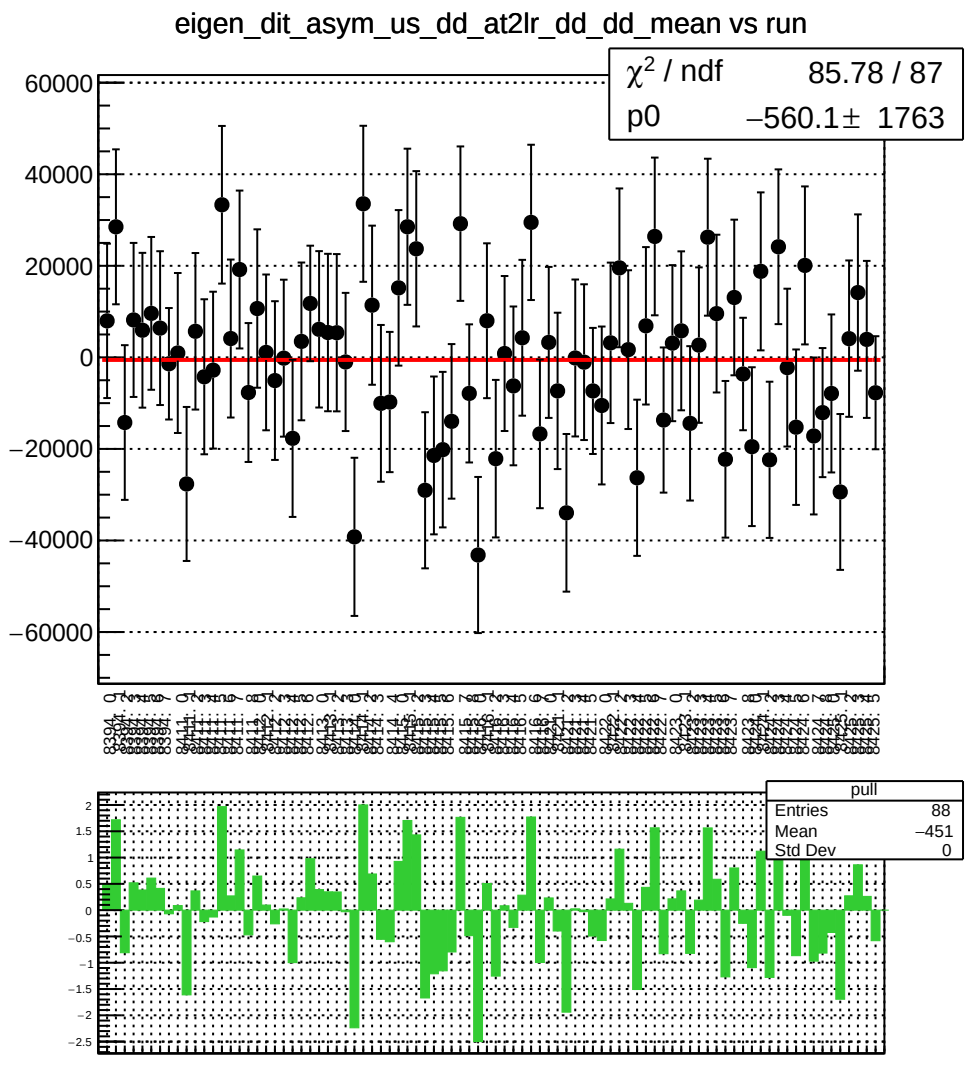

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 85.78 / 87
p0 −560.1± 1763
pull
Entries 88
Mean −451
Std Dev 0

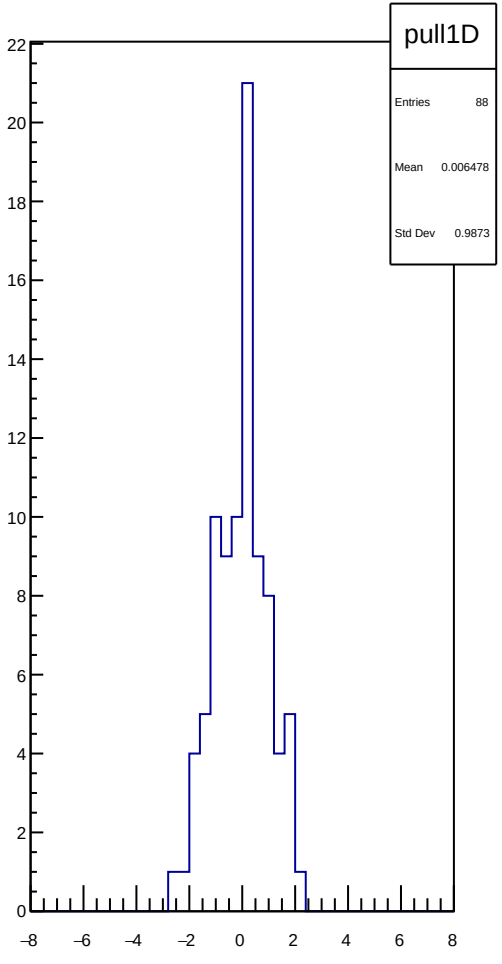

pull1D
Entries 88
Mean 0.006478
Std Dev 0.9873

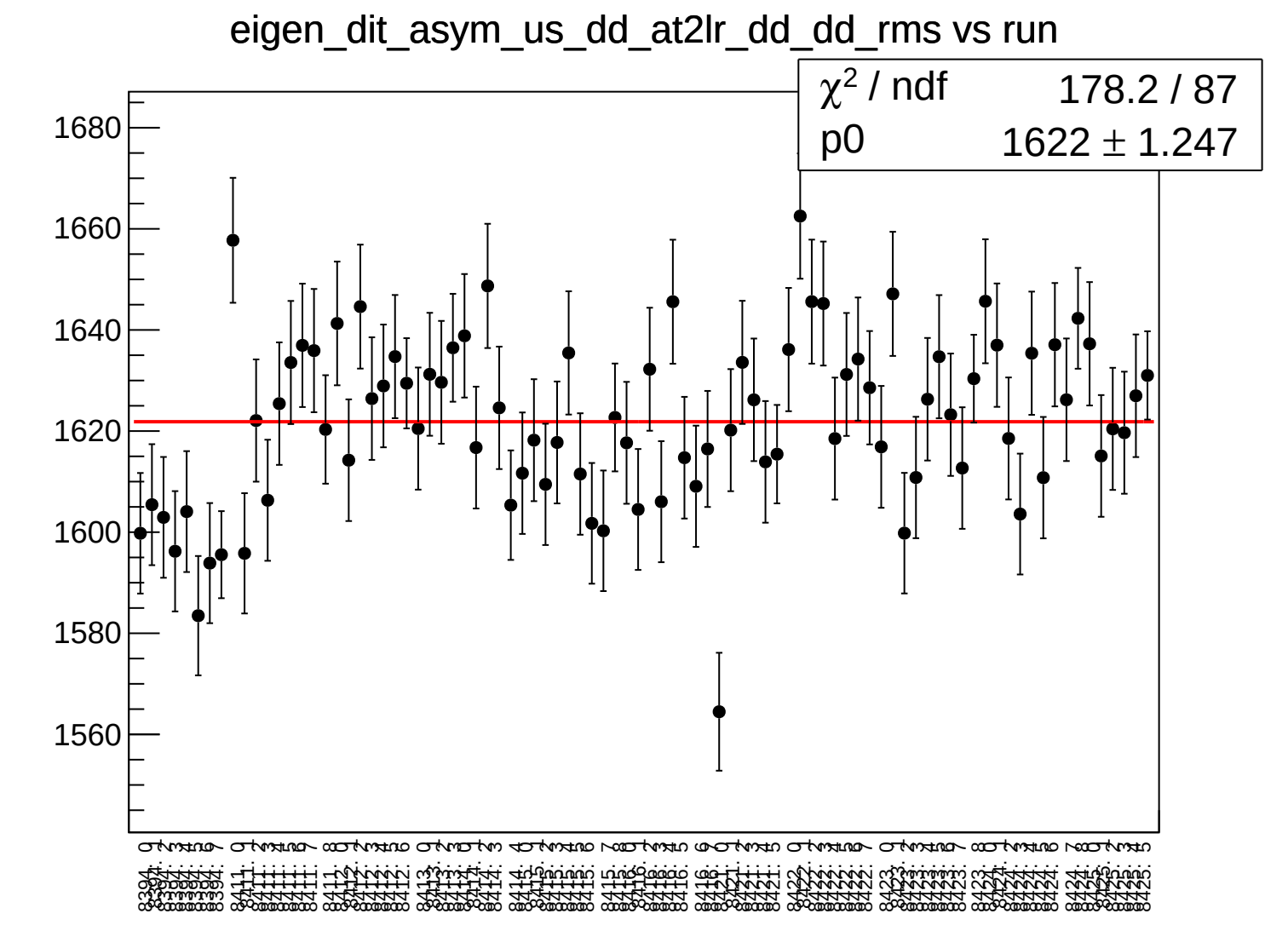

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 178.2 / 87
p0 1622 ± 1.247
1680
1660
1640
1620
1600
1580
1560

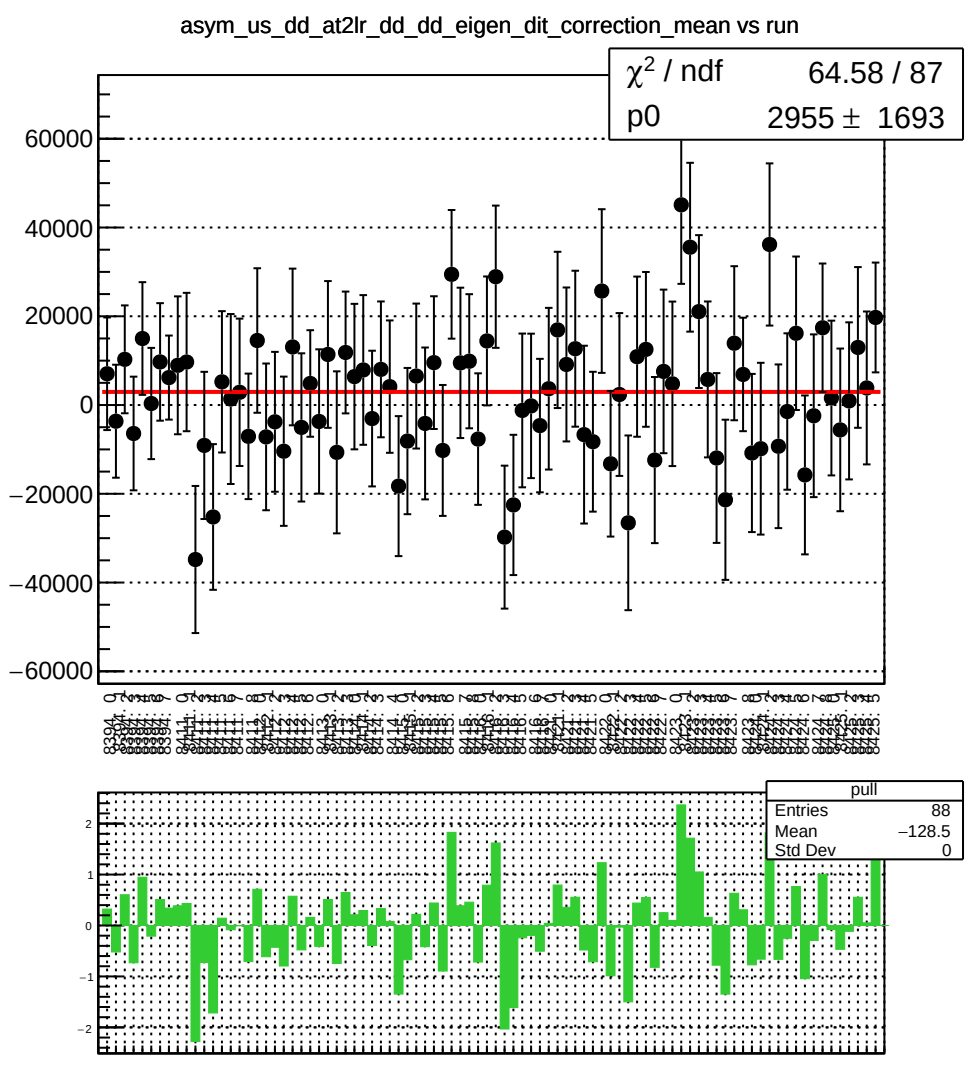

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 64.58 / 87
p0 2955 ± 1693
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −128.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01626
Std Dev 0.8565
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

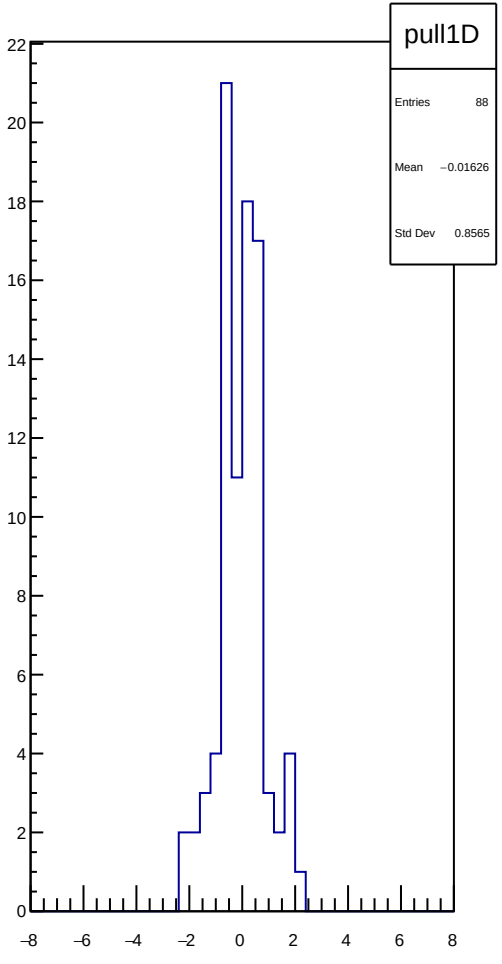

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 2.321e+04 / 87
p0 1546 ± 1.197
1900
1800
1700
1600
1500
1400
1300
1200
1100

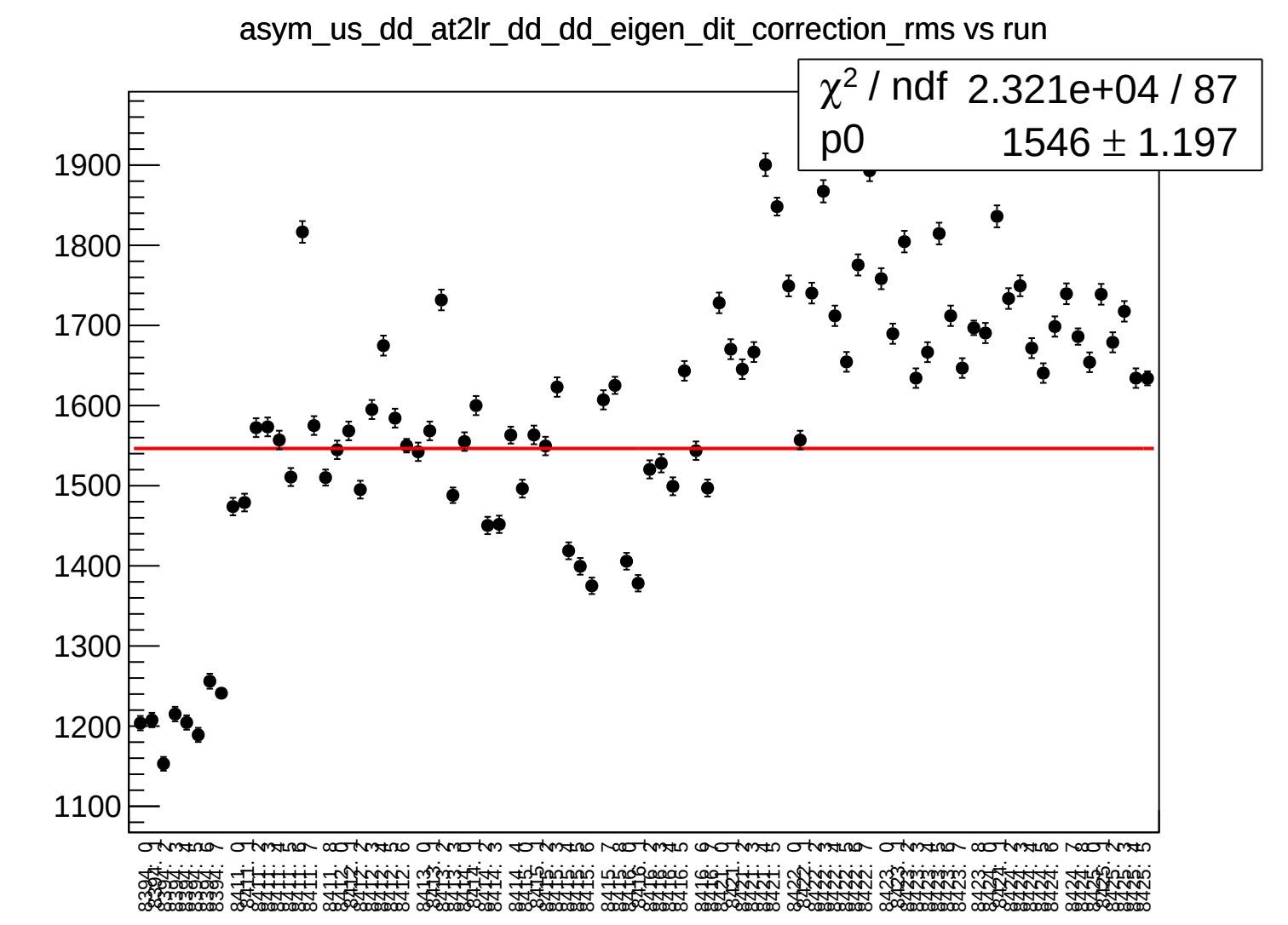

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 85.78 / 87
p0 −560.1± 1763
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −451
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

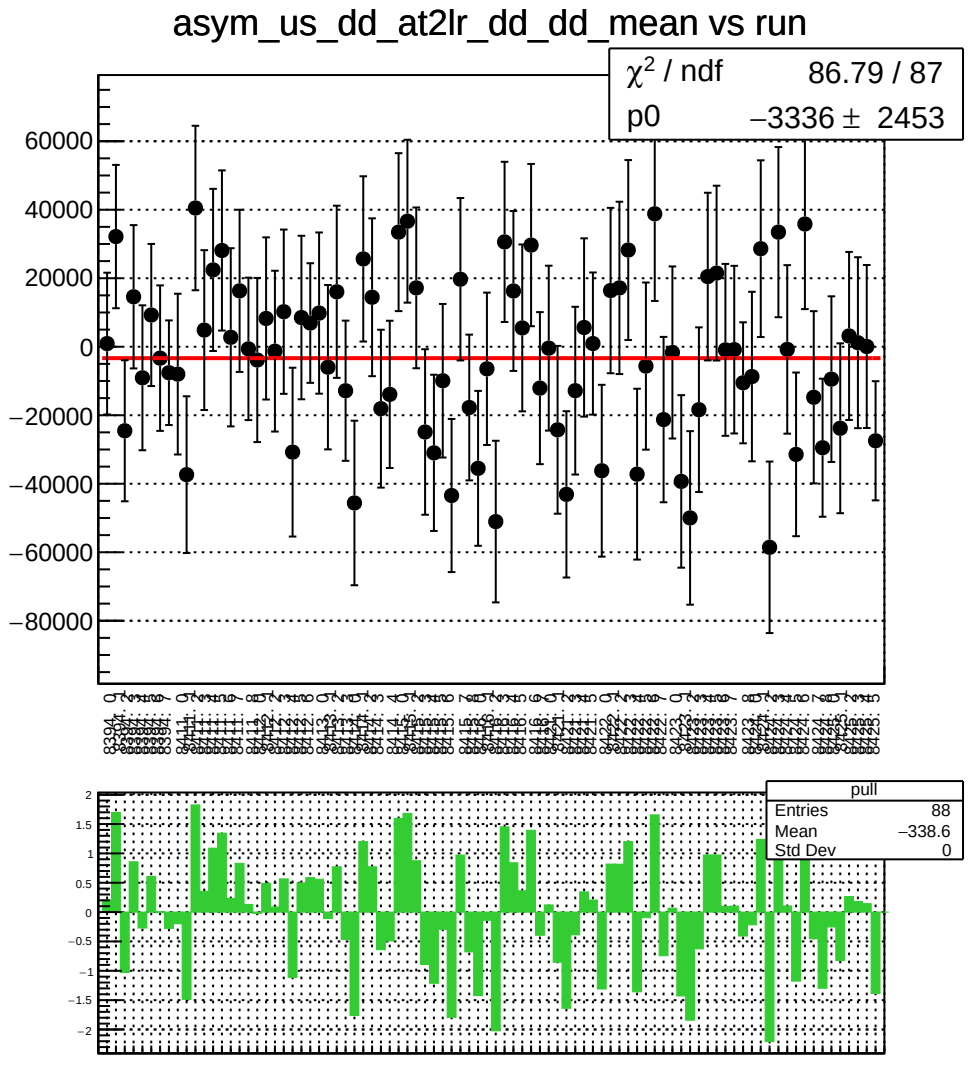

pull1D
Entries 88
Mean 0.006478
Std Dev 0.9873
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

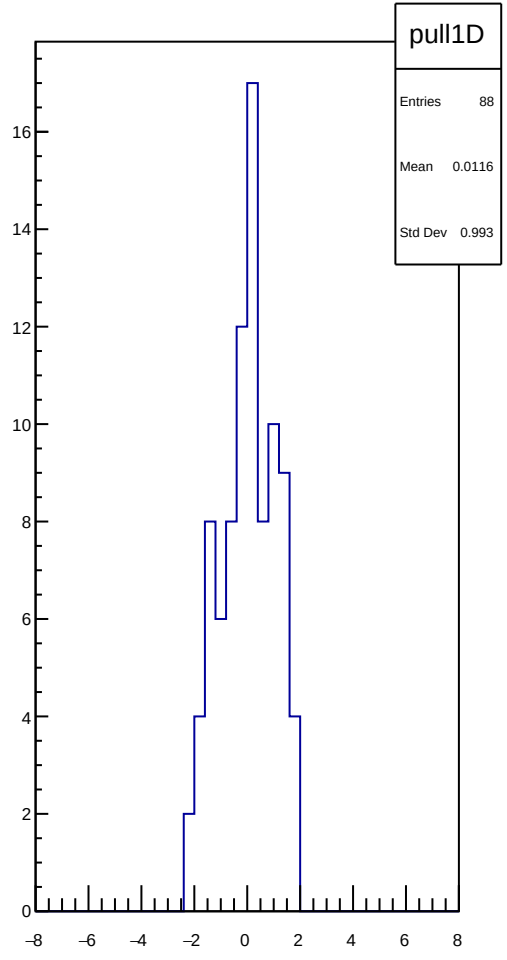

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 178.2 / 87
p0 1622 ± 1.247
1680
1660
1640
1620
1600
1580
1560

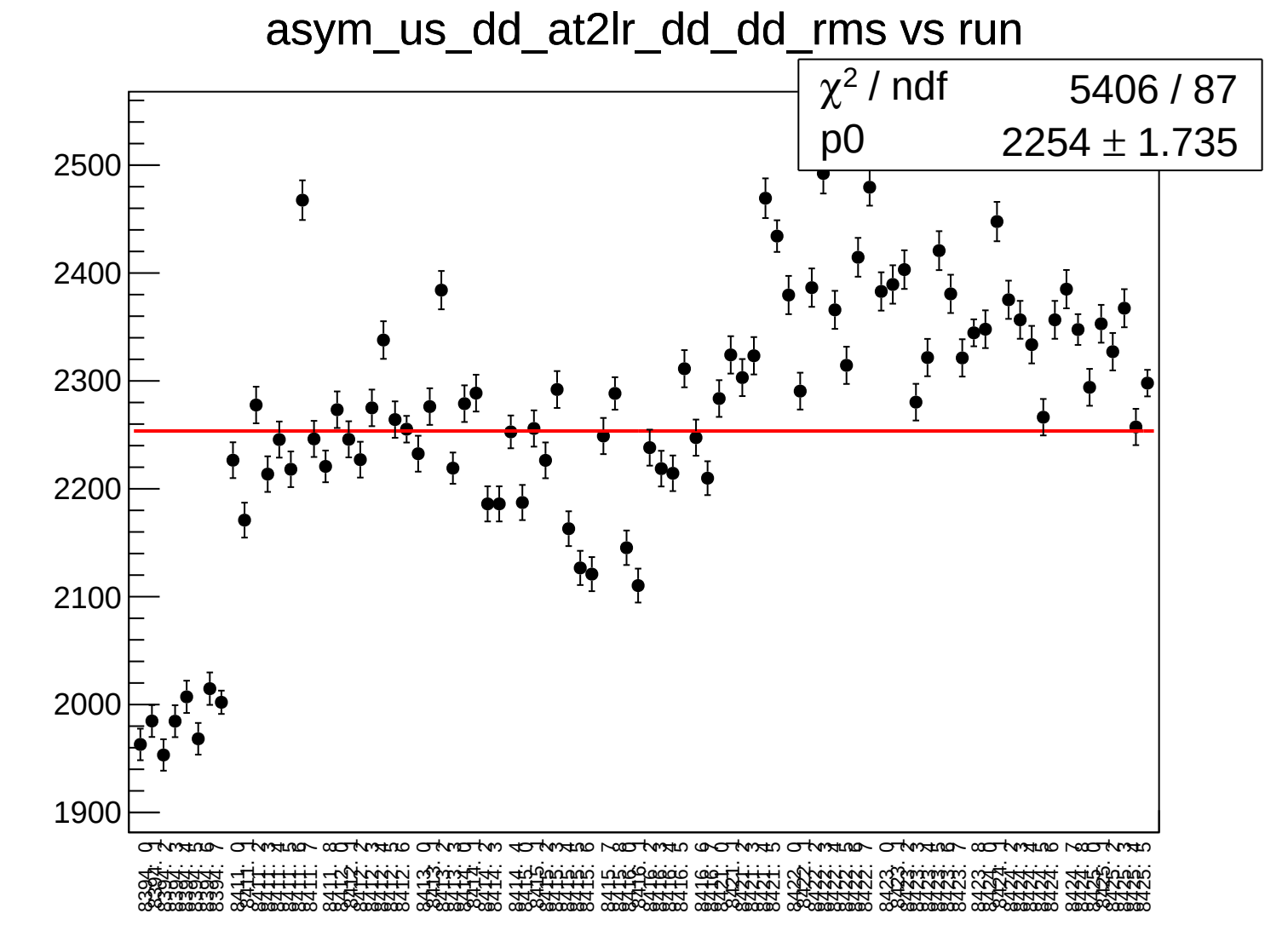

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 64.58 / 87
p0 2955 ± 1693
pull
Entries 88
Mean −128.5
Std Dev 0

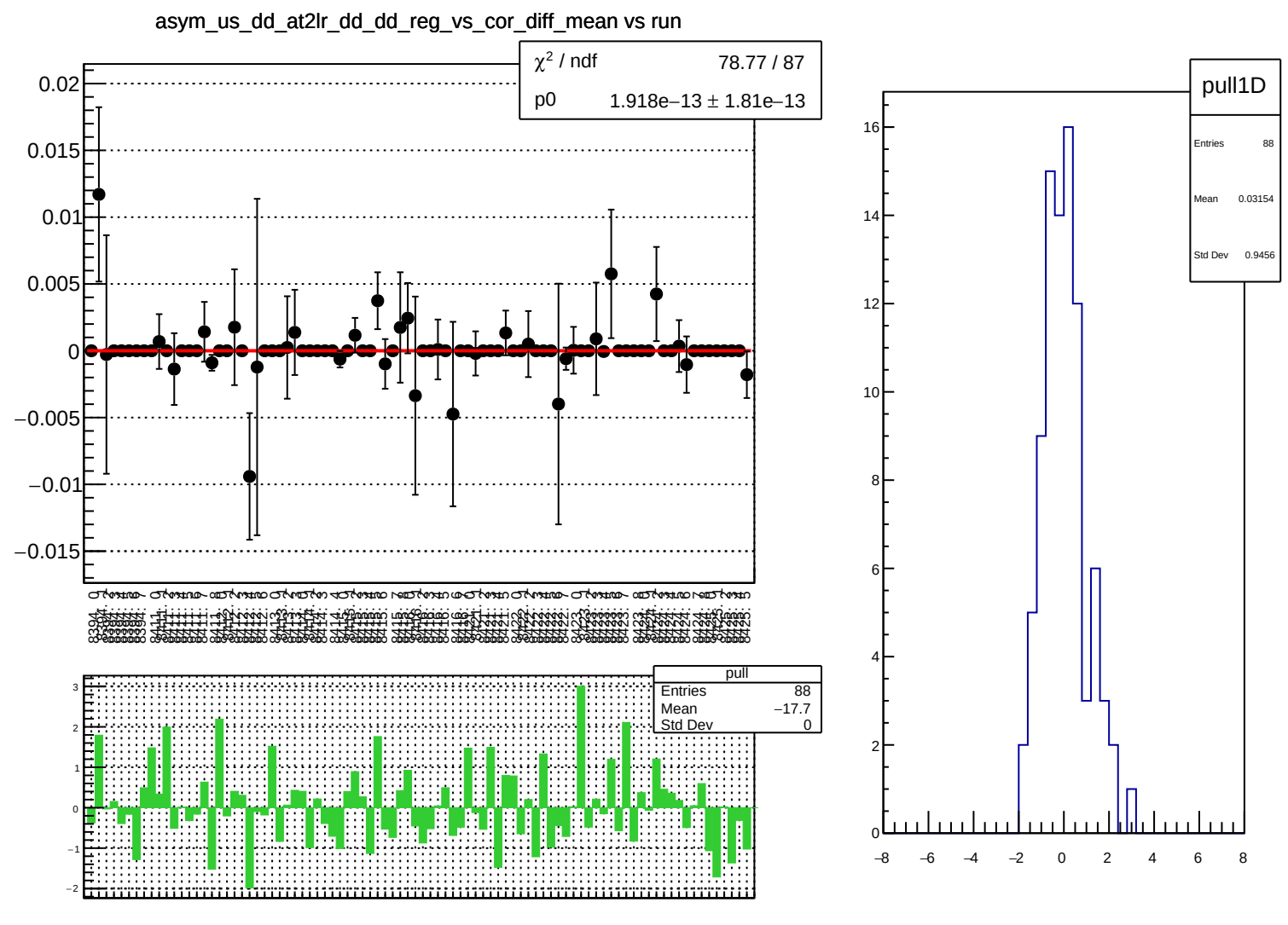

pull1D
Entries 88
Mean −0.01626
Std Dev 0.8565

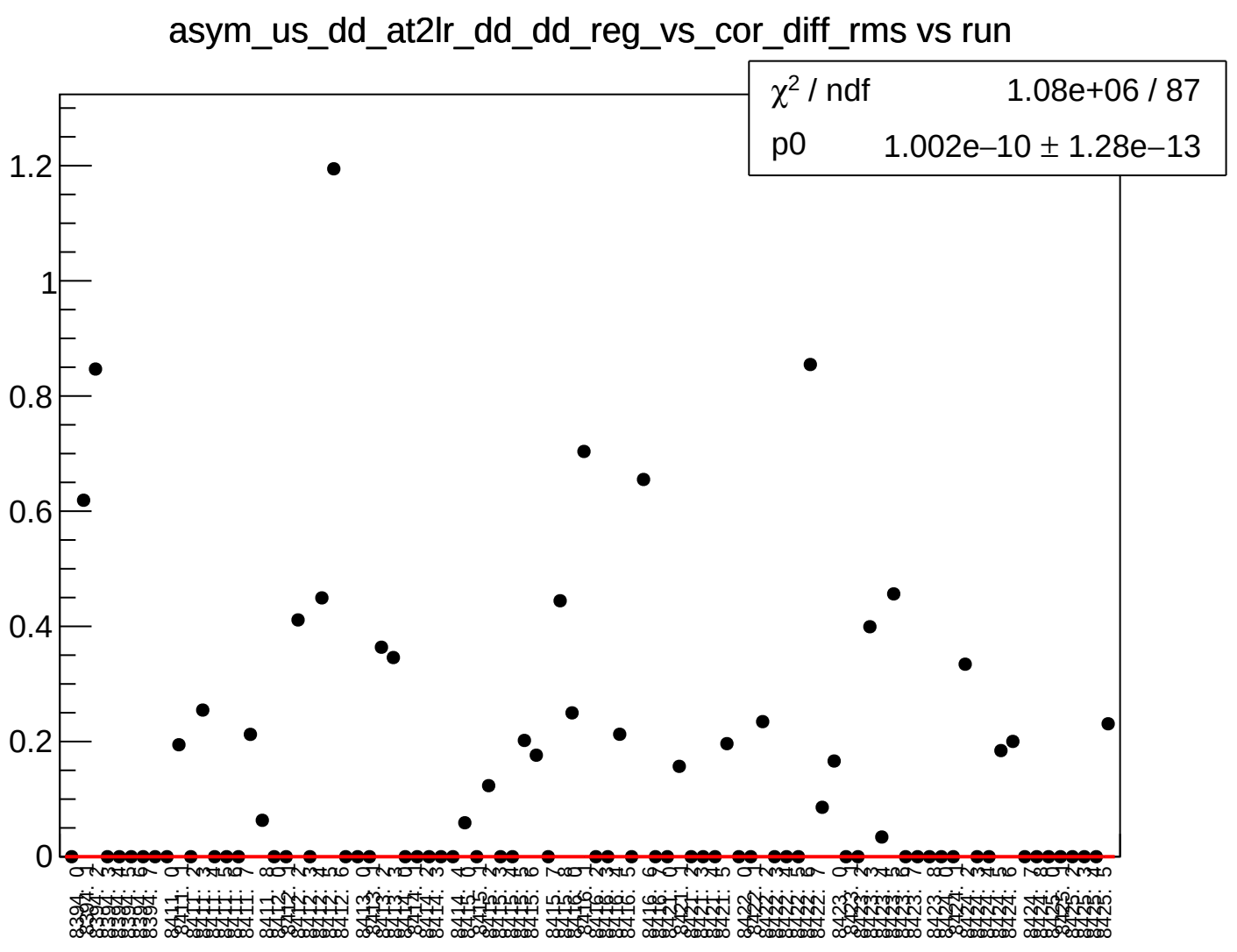

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.321e+04 / 87
p0 1546 ± 1.197
1900
1800
1700
1600
1500
1400
1300
1200
1100


asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 86.79 / 87
p0 −3336 ± 2453
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −338.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

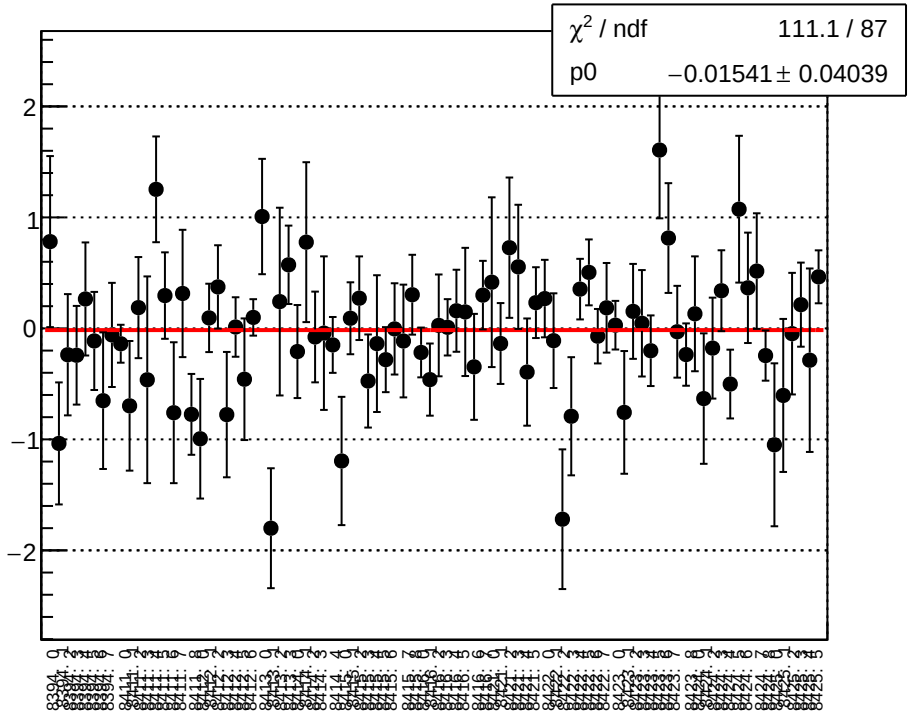

pull1D
Entries 88
Mean 0.0116
Std Dev 0.993
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

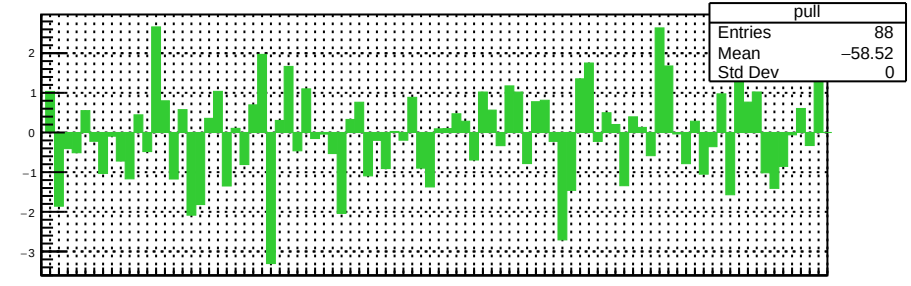

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 5406 / 87
p0 2254 ± 1.735
2500
2400
2300
2200
2100
2000
1900

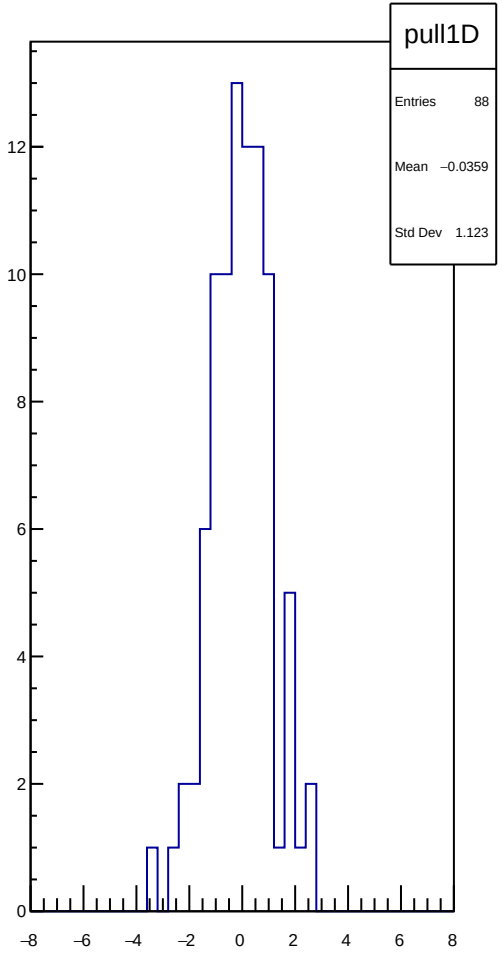

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 78.77 / 87
p0 1.918e−13 ± 1.81e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 88
Mean −17.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.03154
Std Dev 0.9456
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

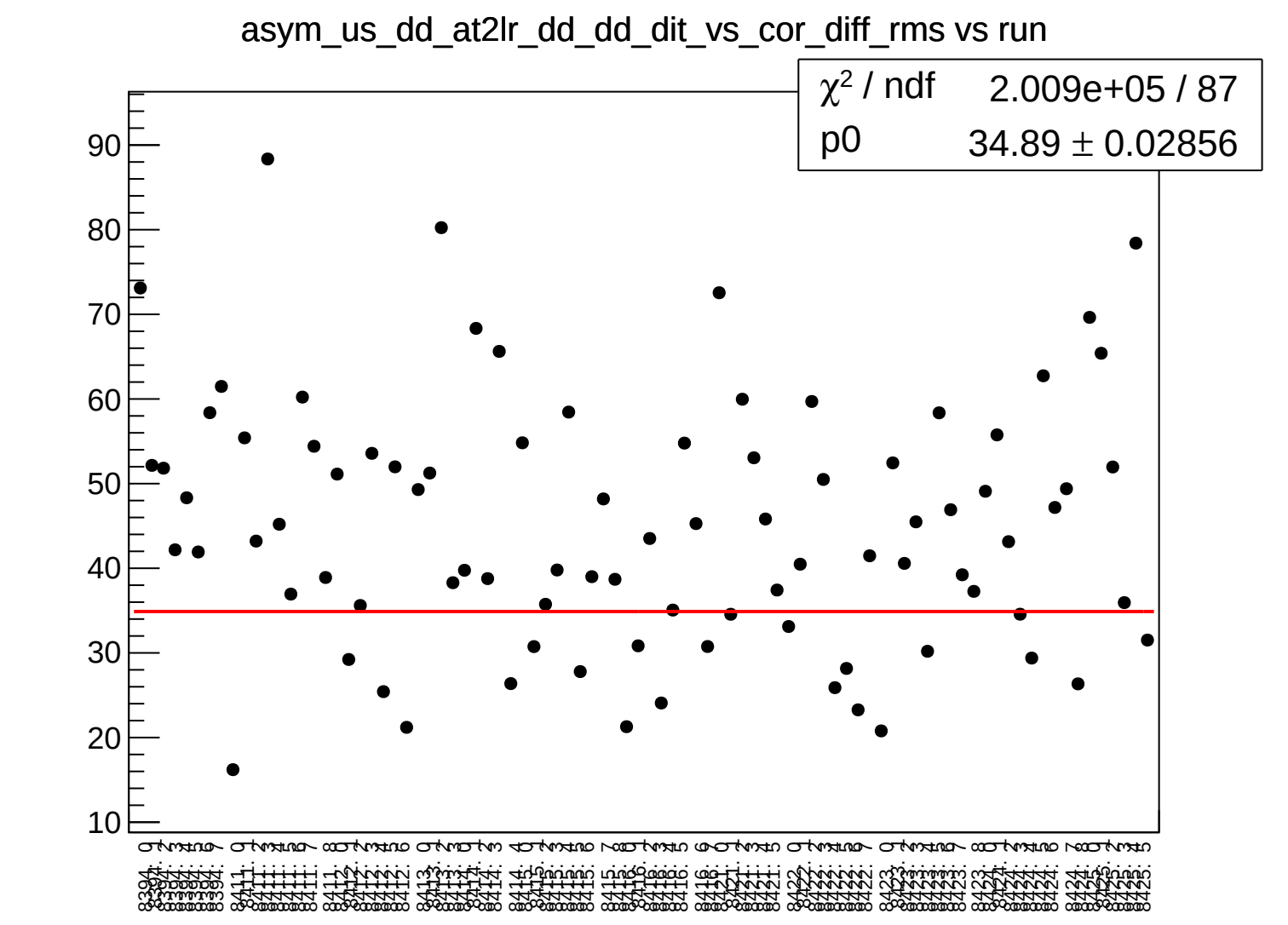

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.08e+06 / 87
p0 1.002e−10 ± 1.28e−13
1.2
1
0.8
0.6
0.4
0.2
0

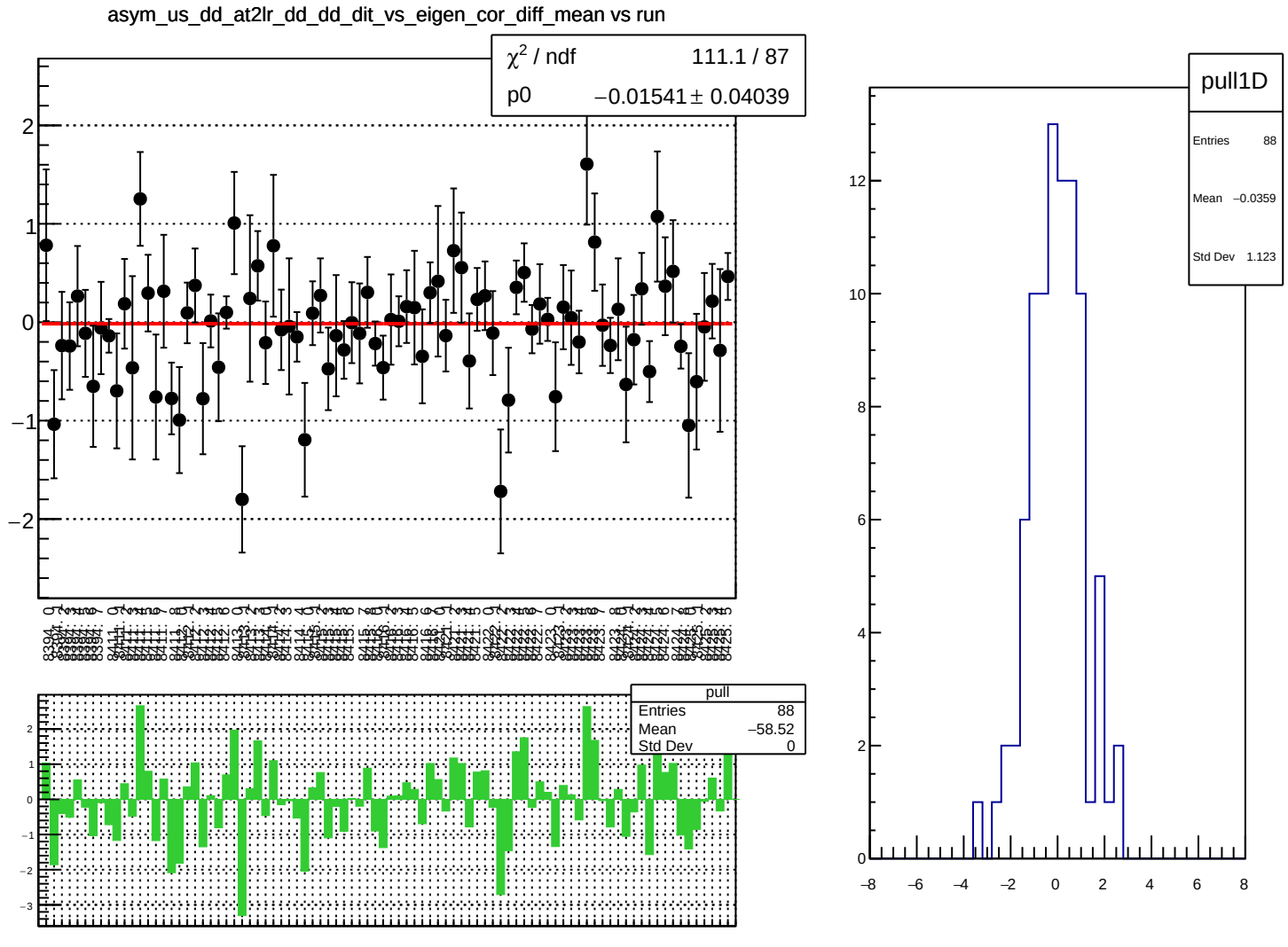
asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run

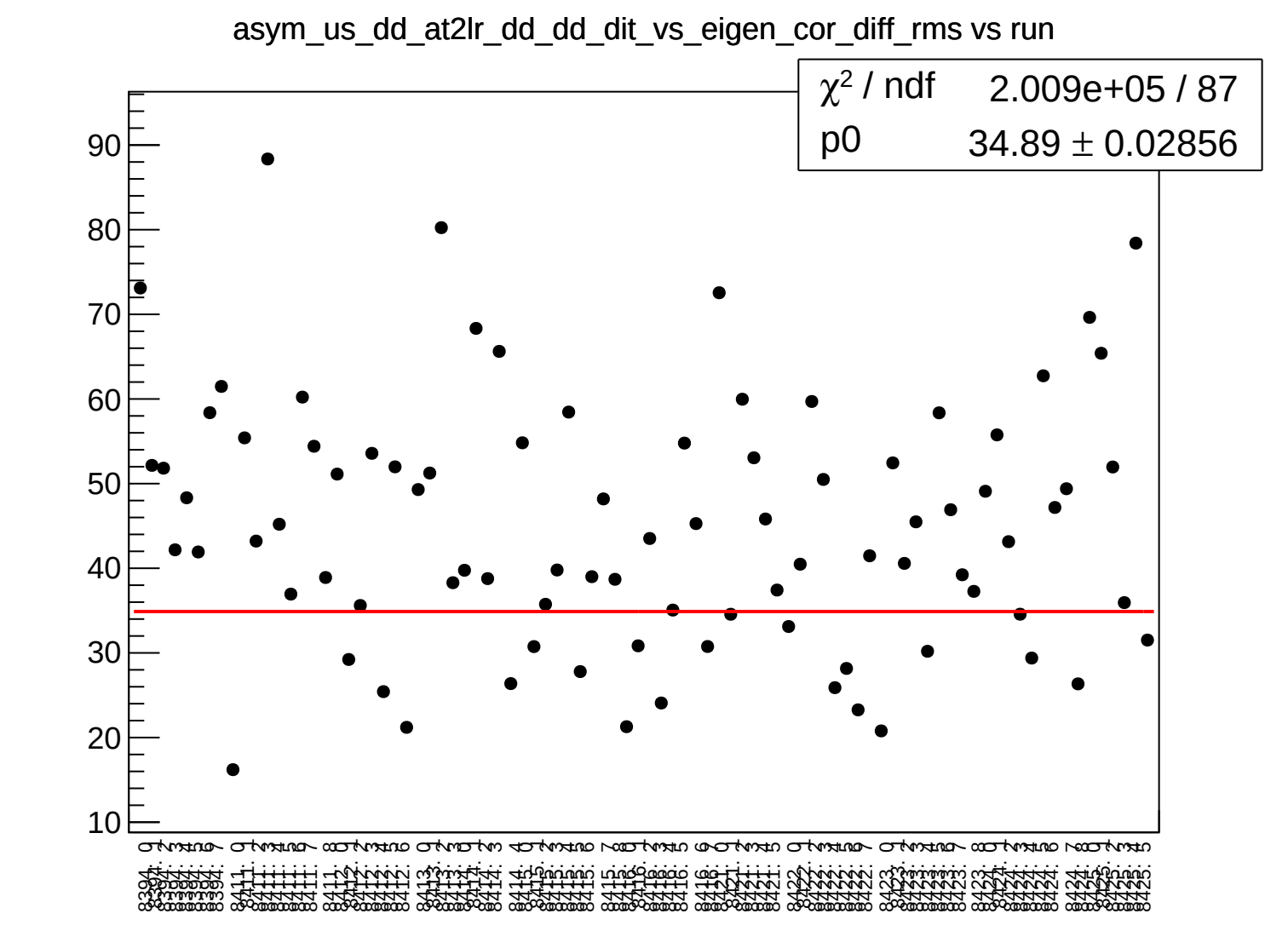


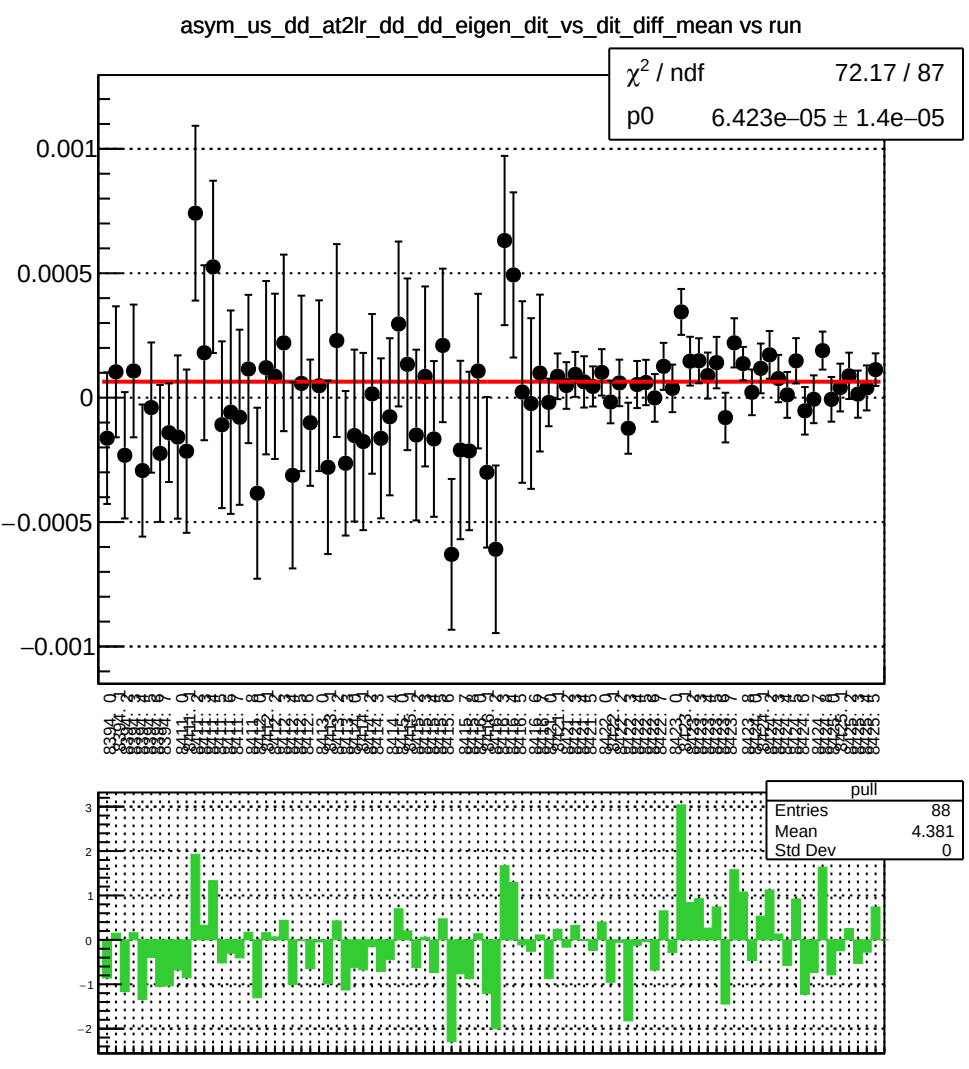


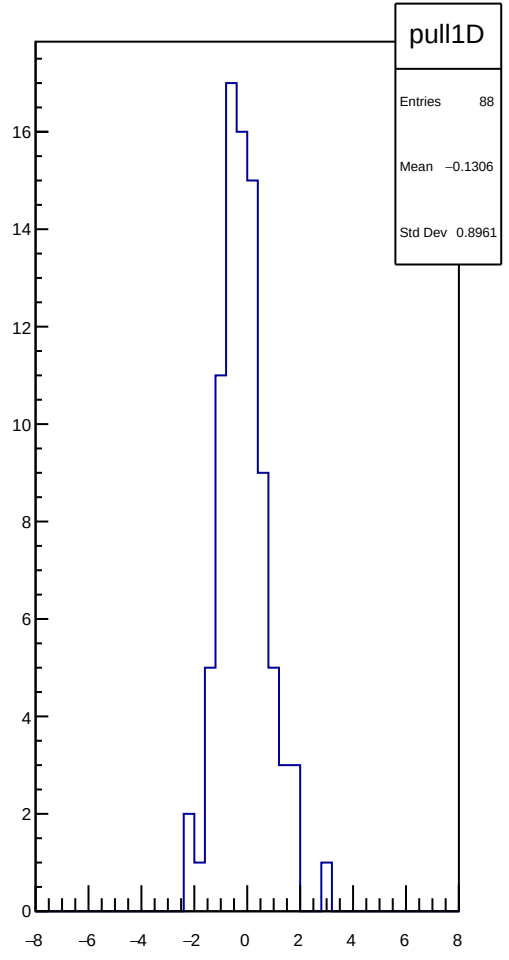


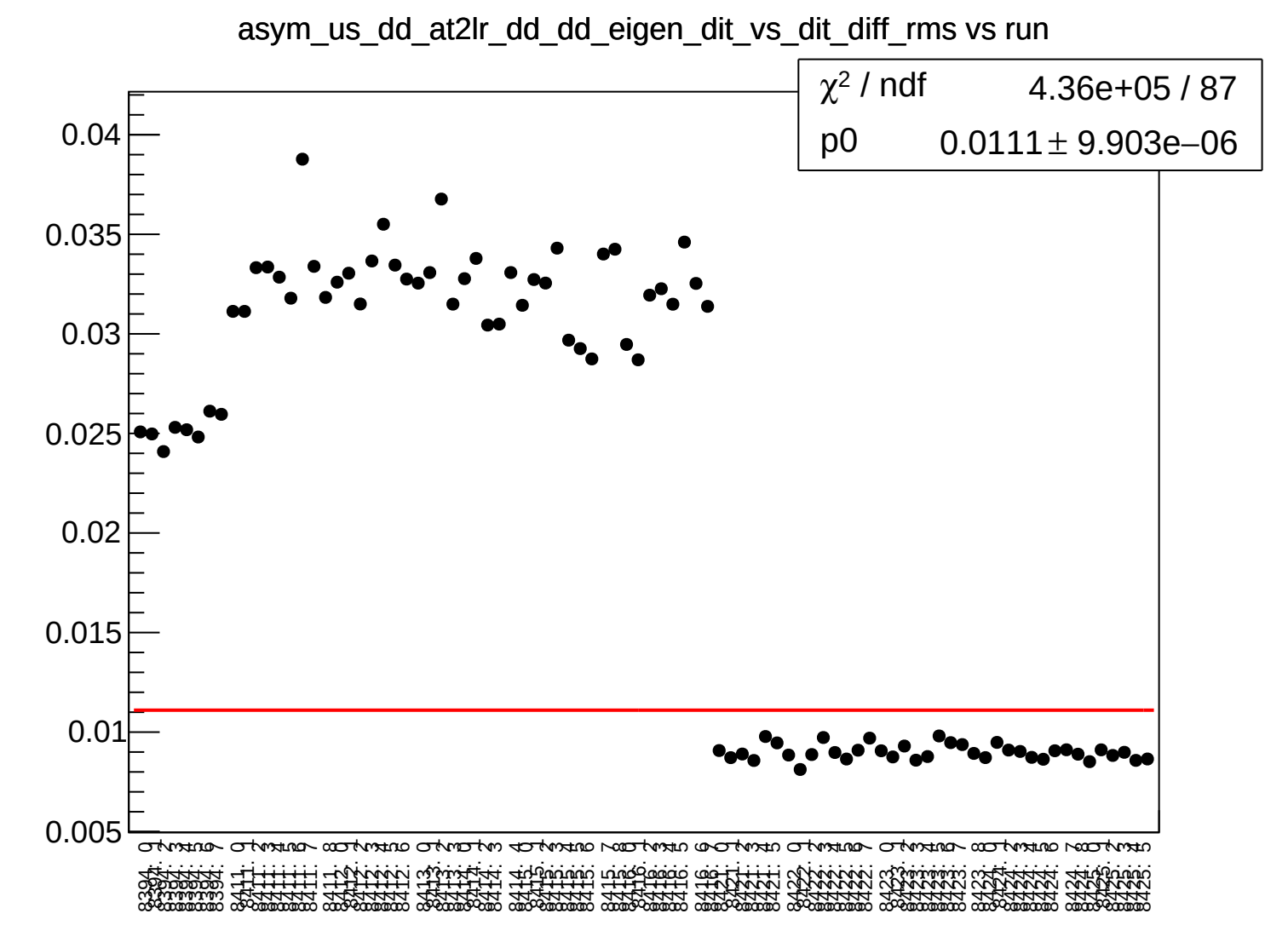

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.009e+05 / 87
p0 34.89 ± 0.02856
90
80
70
60
50
40
30
20
10

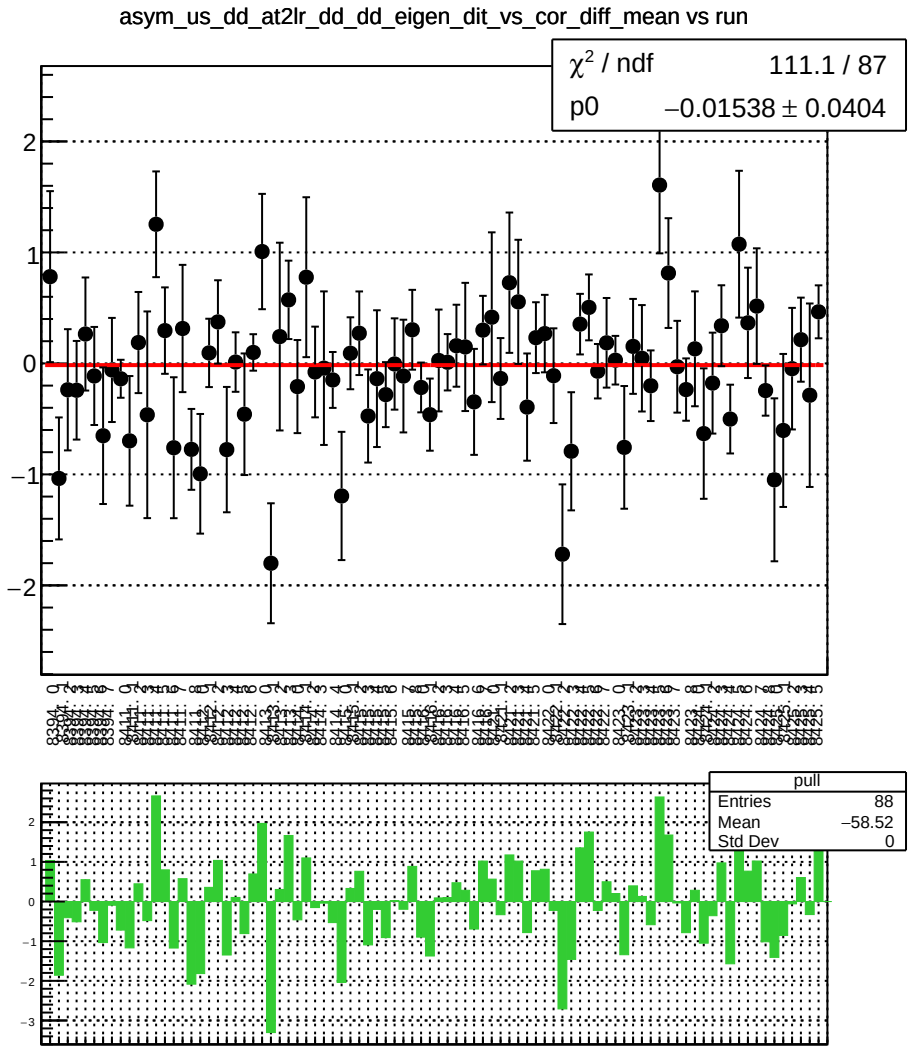

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.1 / 87
p0 −0.01541 ± 0.04039
pull
Entries 88
Mean −58.52
Std Dev 0
pull1D
Entries 88
Mean −0.0359
Std Dev 1.123

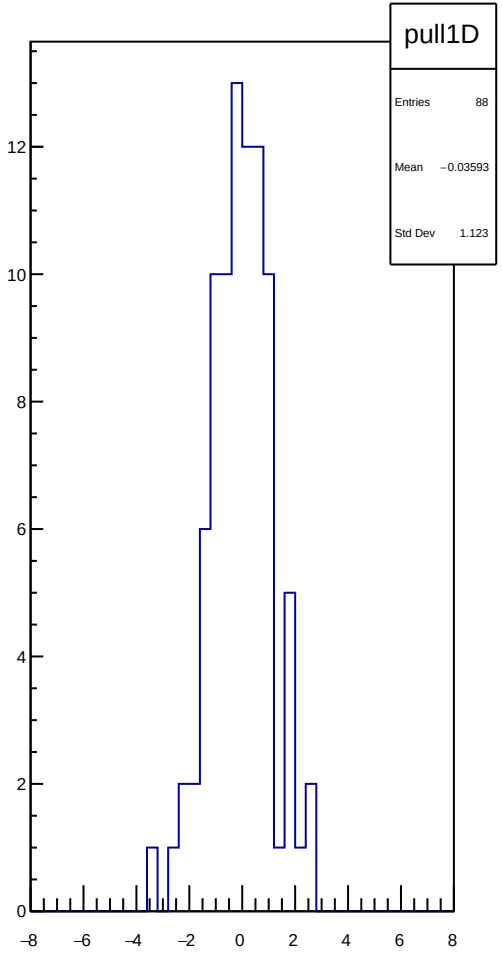

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.009e+05 / 87
p0 34.89 ± 0.02856
90
80
70
60
50
40
30
20
10

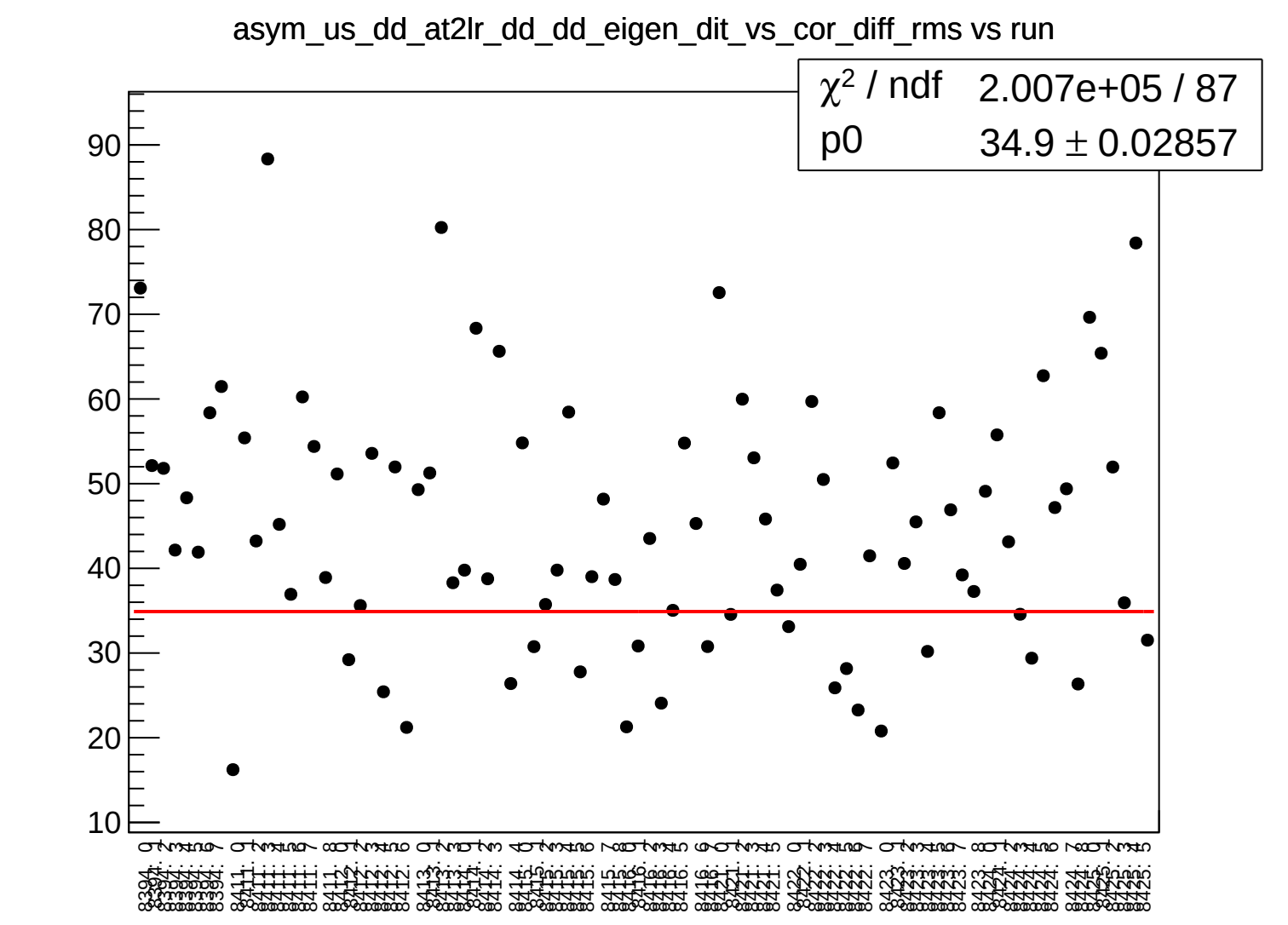

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 72.17 / 87
p0 6.423e−05 ± 1.4e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean 4.381
Std Dev 0
3
2
1
0
−1
−2

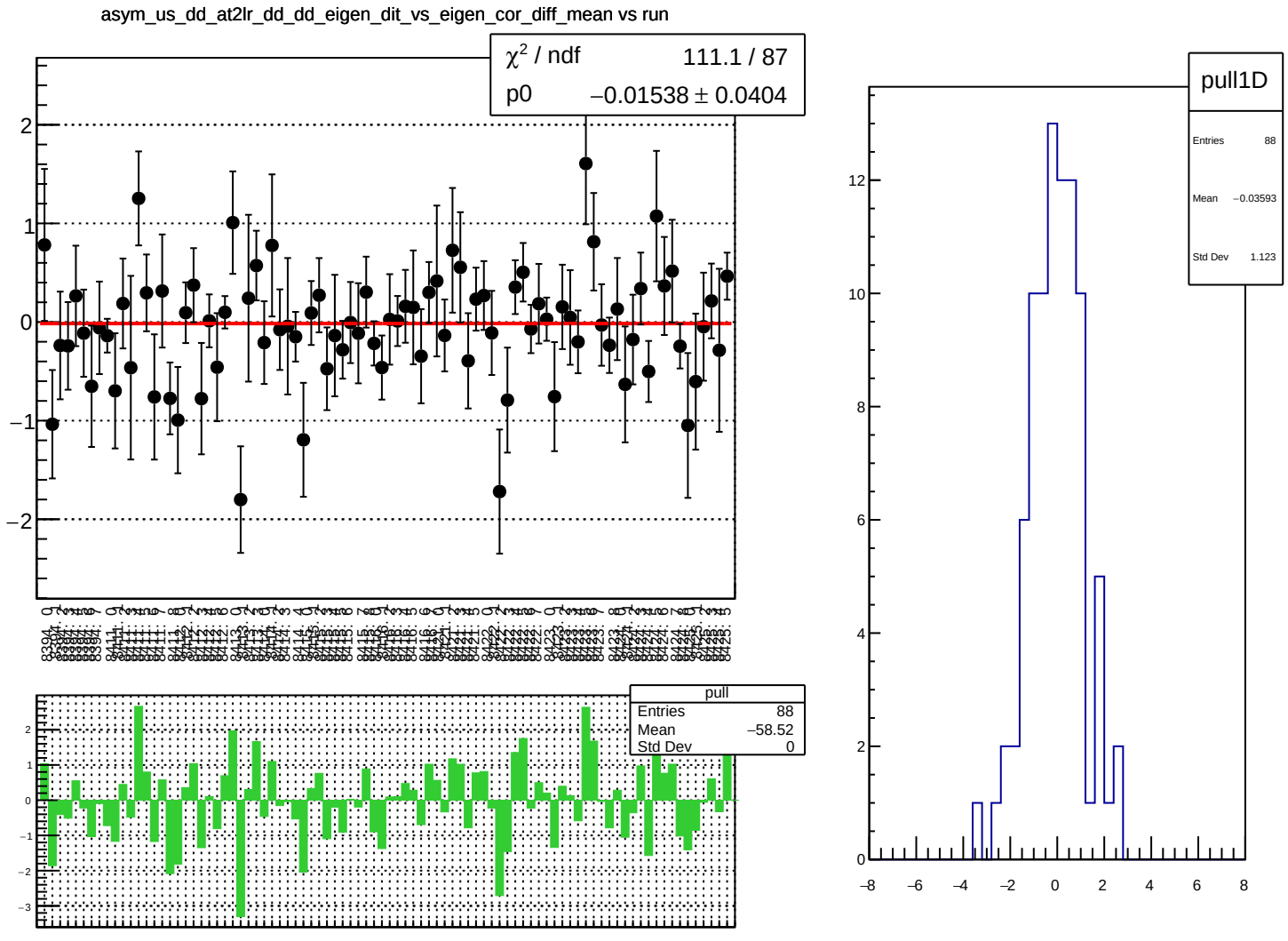

pull1D
Entries 88
Mean −0.1306
Std Dev 0.8961
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

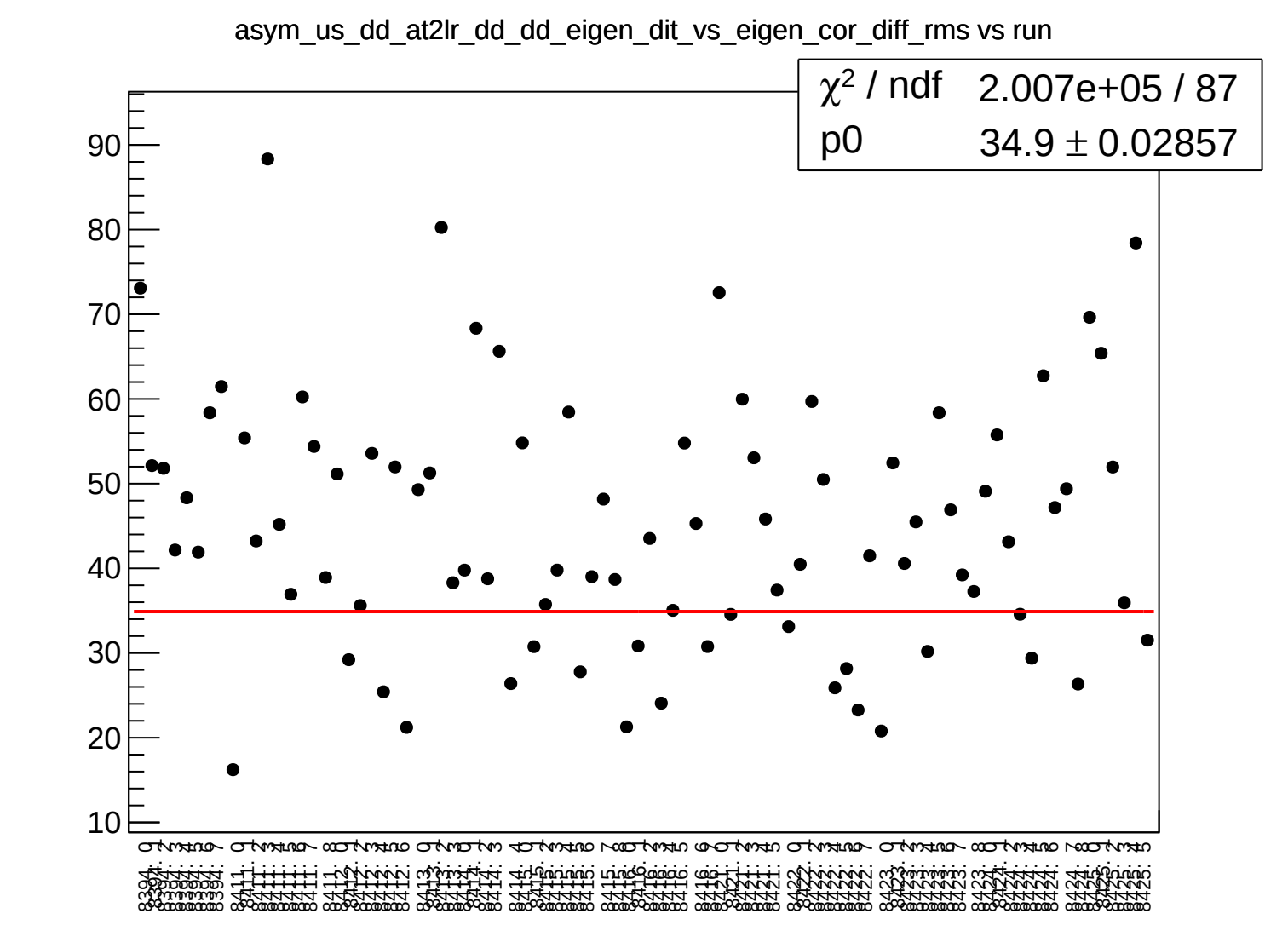

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.36e+05 / 87
p0 0.0111 ± 9.903e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

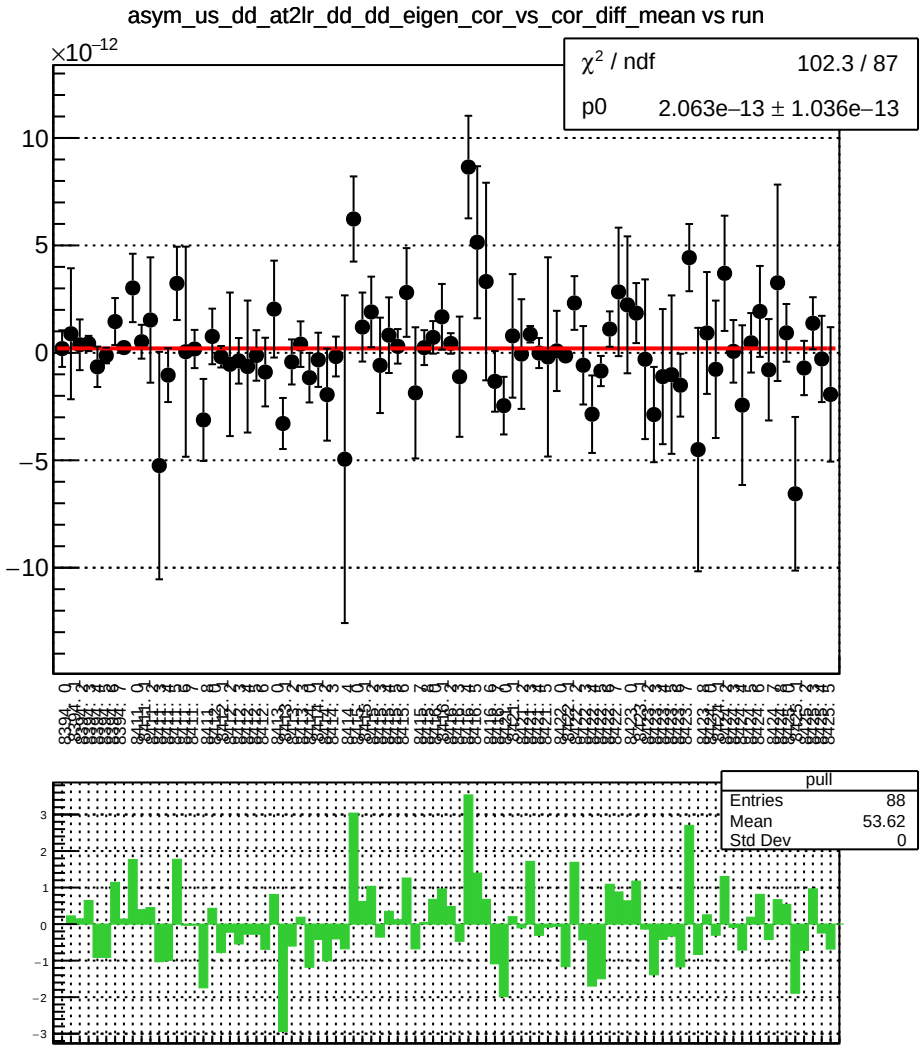

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 111.1 / 87
p0 −0.01538 ± 0.0404
pull
Entries 88
Mean −58.52
Std Dev 0

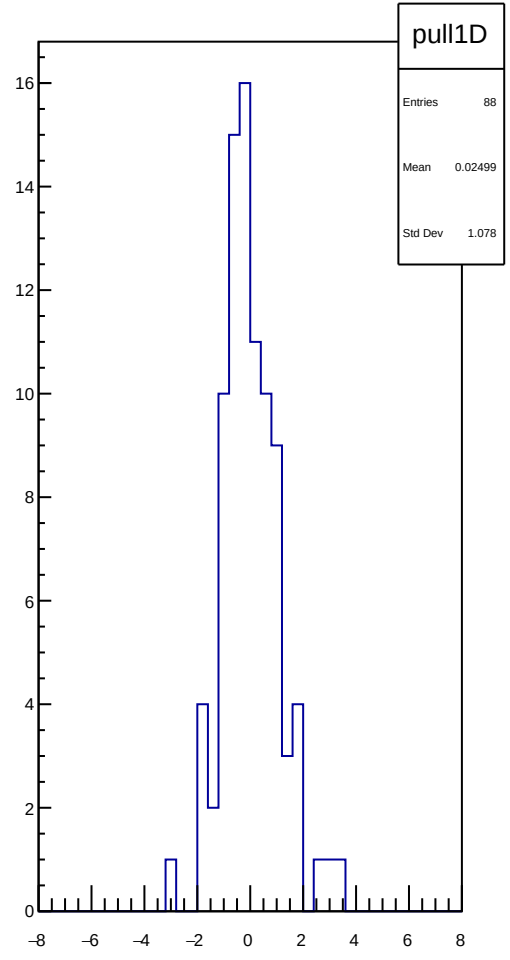

pull1D
Entries 88
Mean −0.03593
Std Dev 1.123

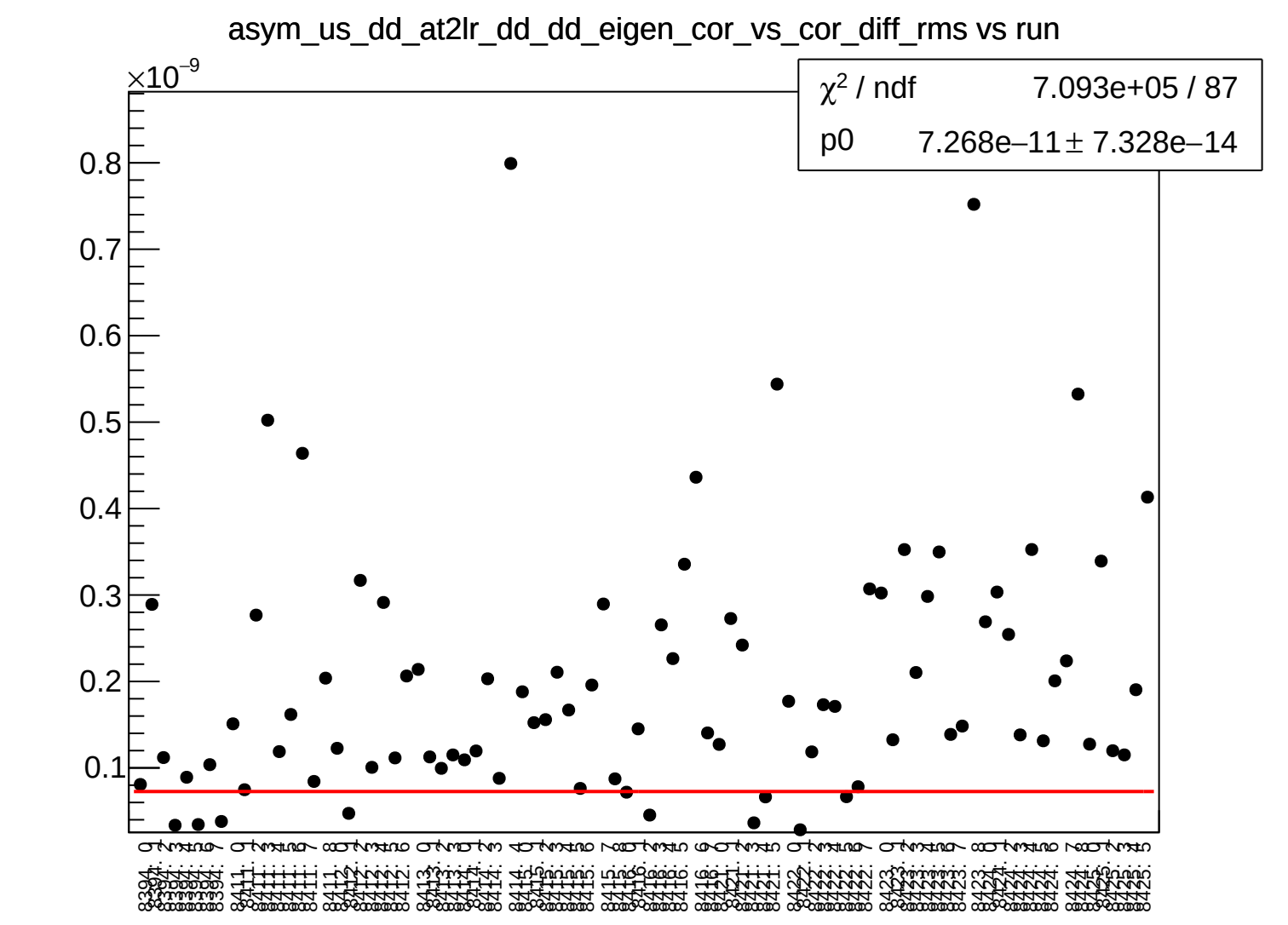

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.007e+05 / 87
p0 34.9 ± 0.02857
90
80
70
60
50
40
30
20
10

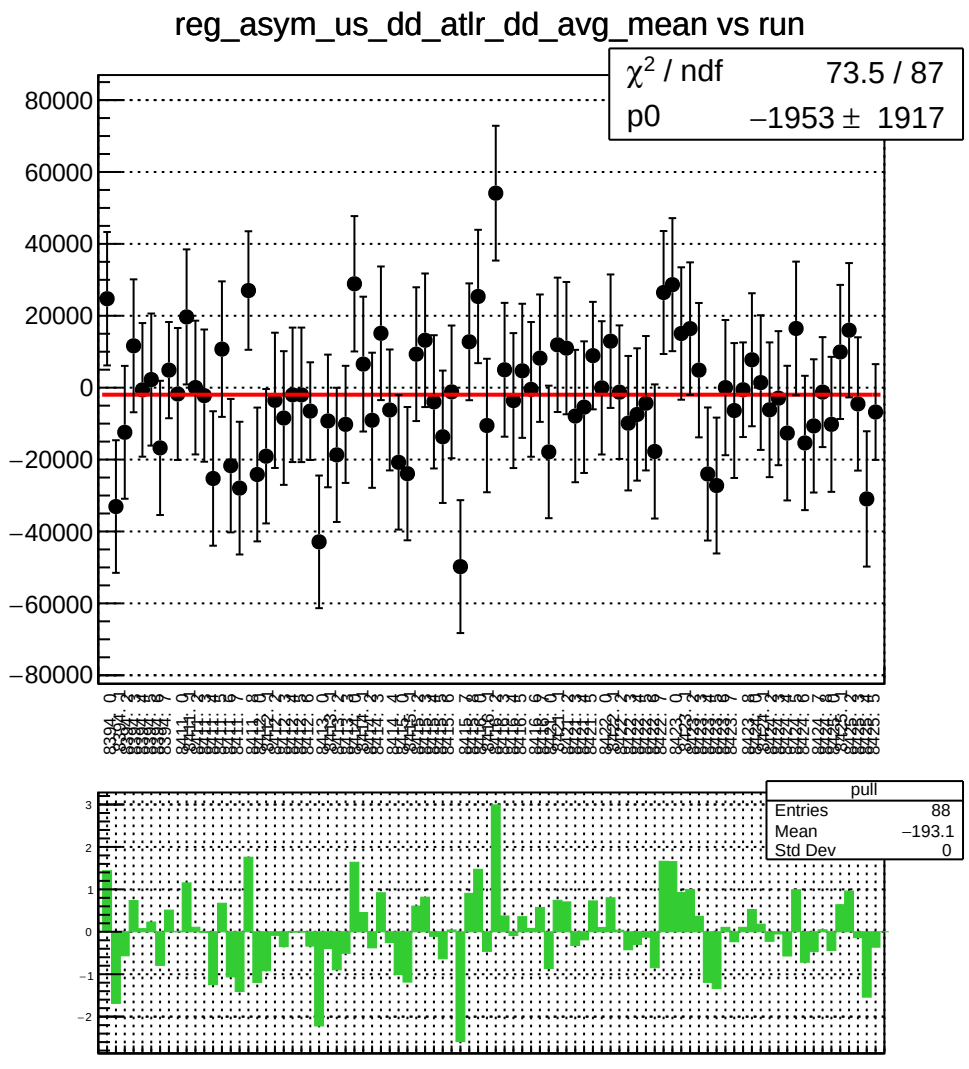

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.1 / 87
p0 −0.01538 ± 0.0404
pull
Entries 88
Mean −58.52
Std Dev 0
pull1D
Entries 88
Mean −0.03593
Std Dev 1.123

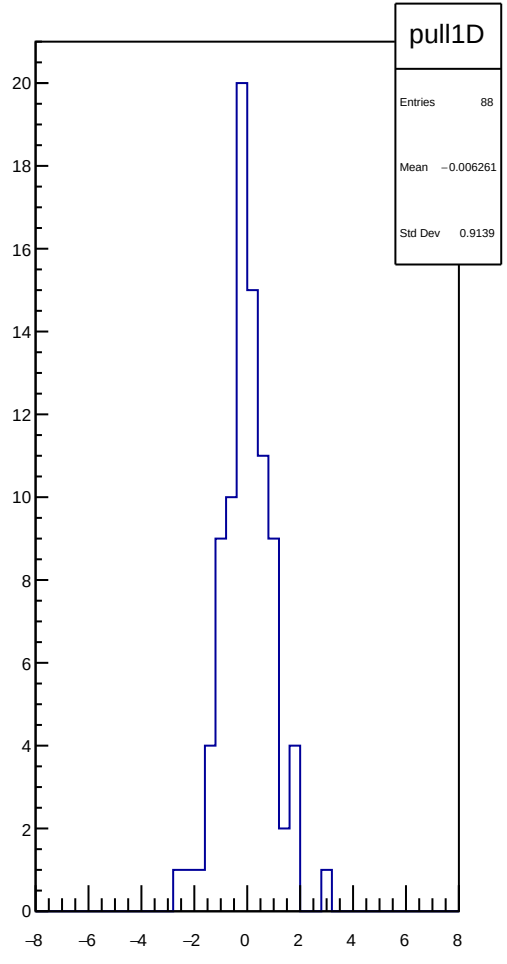

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.007e+05 / 87
p0 34.9 ± 0.02857
90
80
70
60
50
40
30
20
10

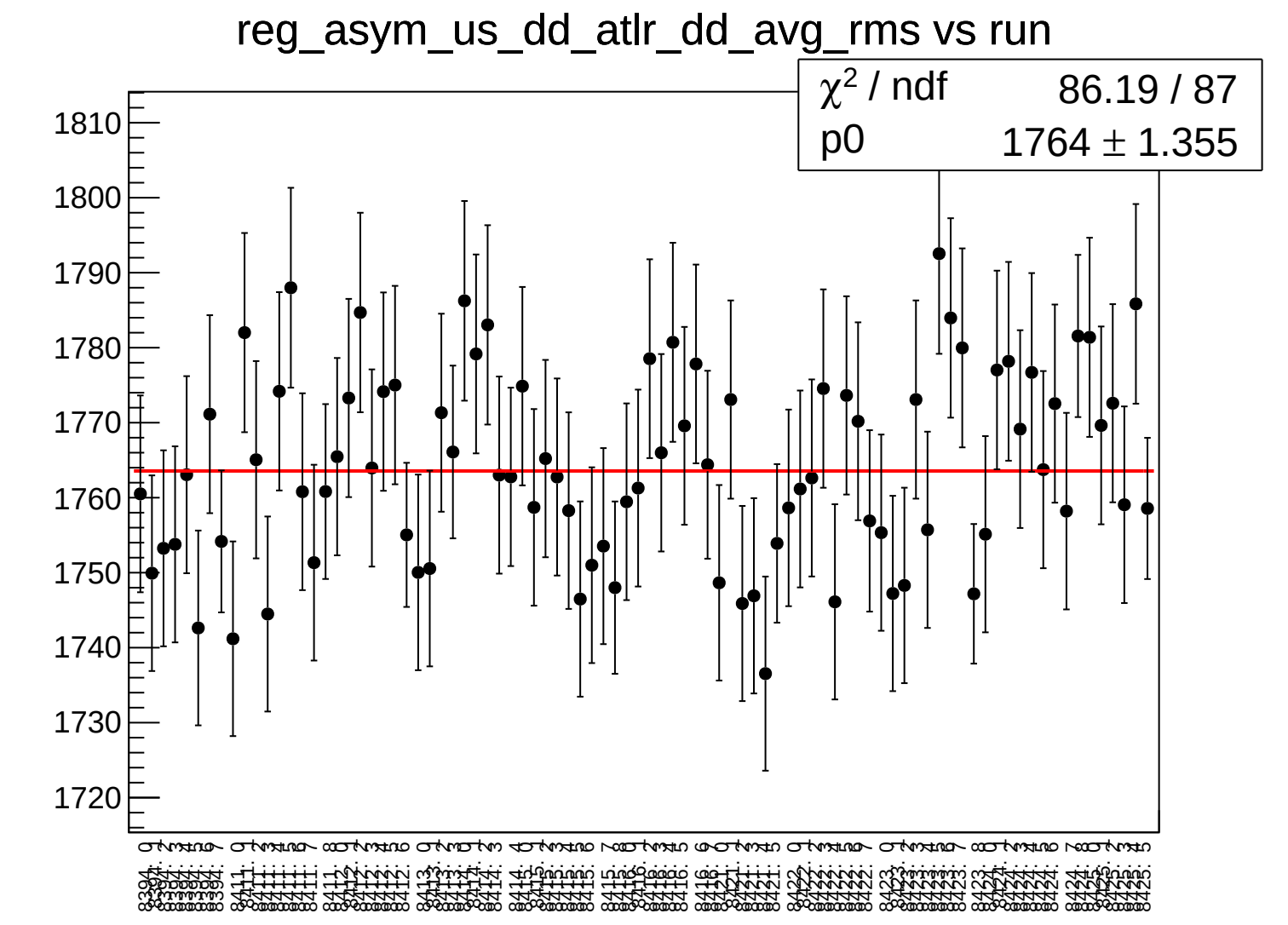

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.3 / 87
p0 2.063e−13 ± 1.036e−13
10
5
0
−5
−10
pull
Entries 88
Mean 53.62
Std Dev 0
3
2
1
0
−1
−2
−3

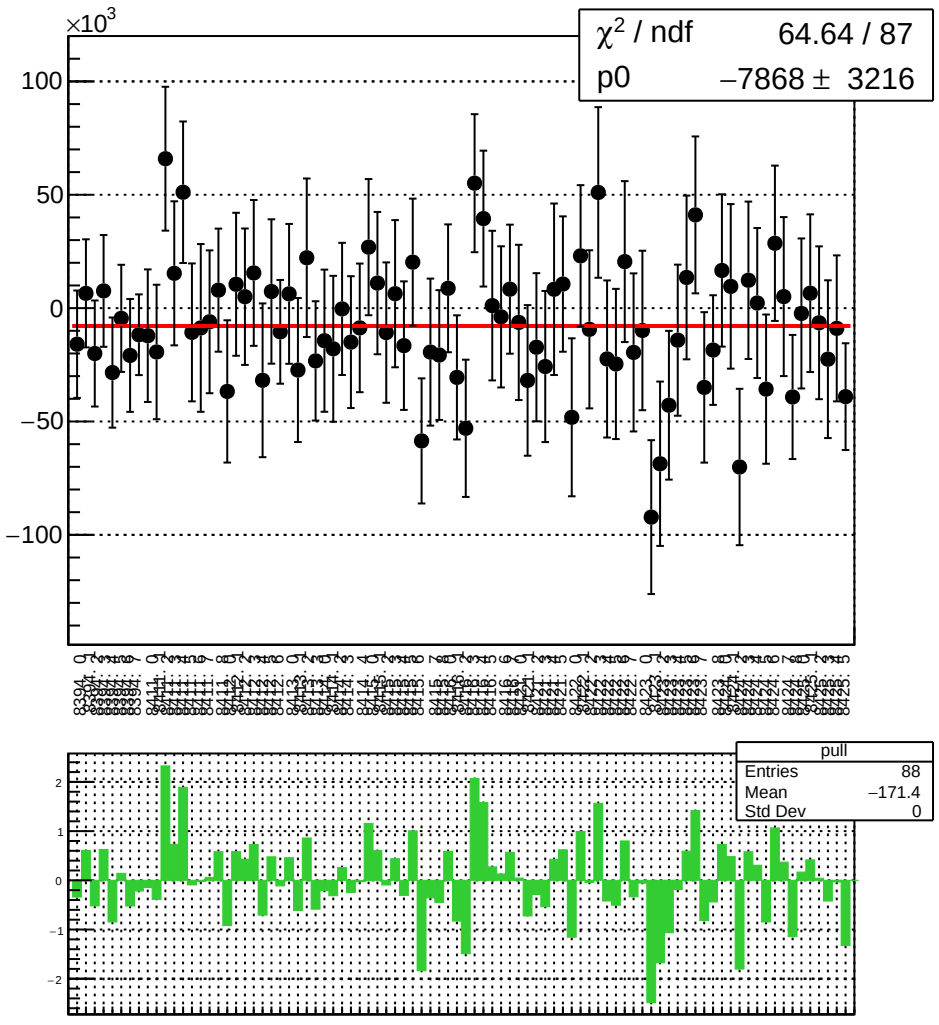

pull1D
Entries 88
Mean 0.02499
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

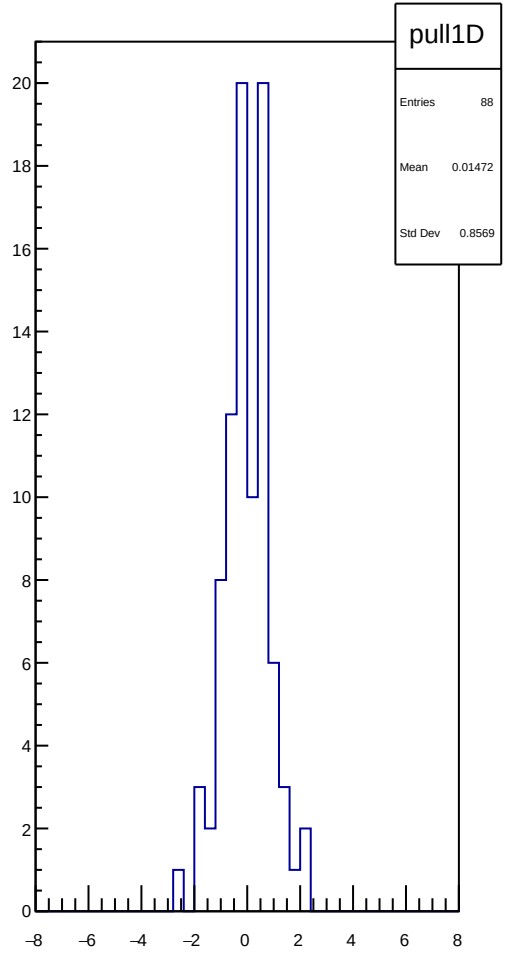

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.093e+05 / 87
p0 7.268e−11 ± 7.328e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

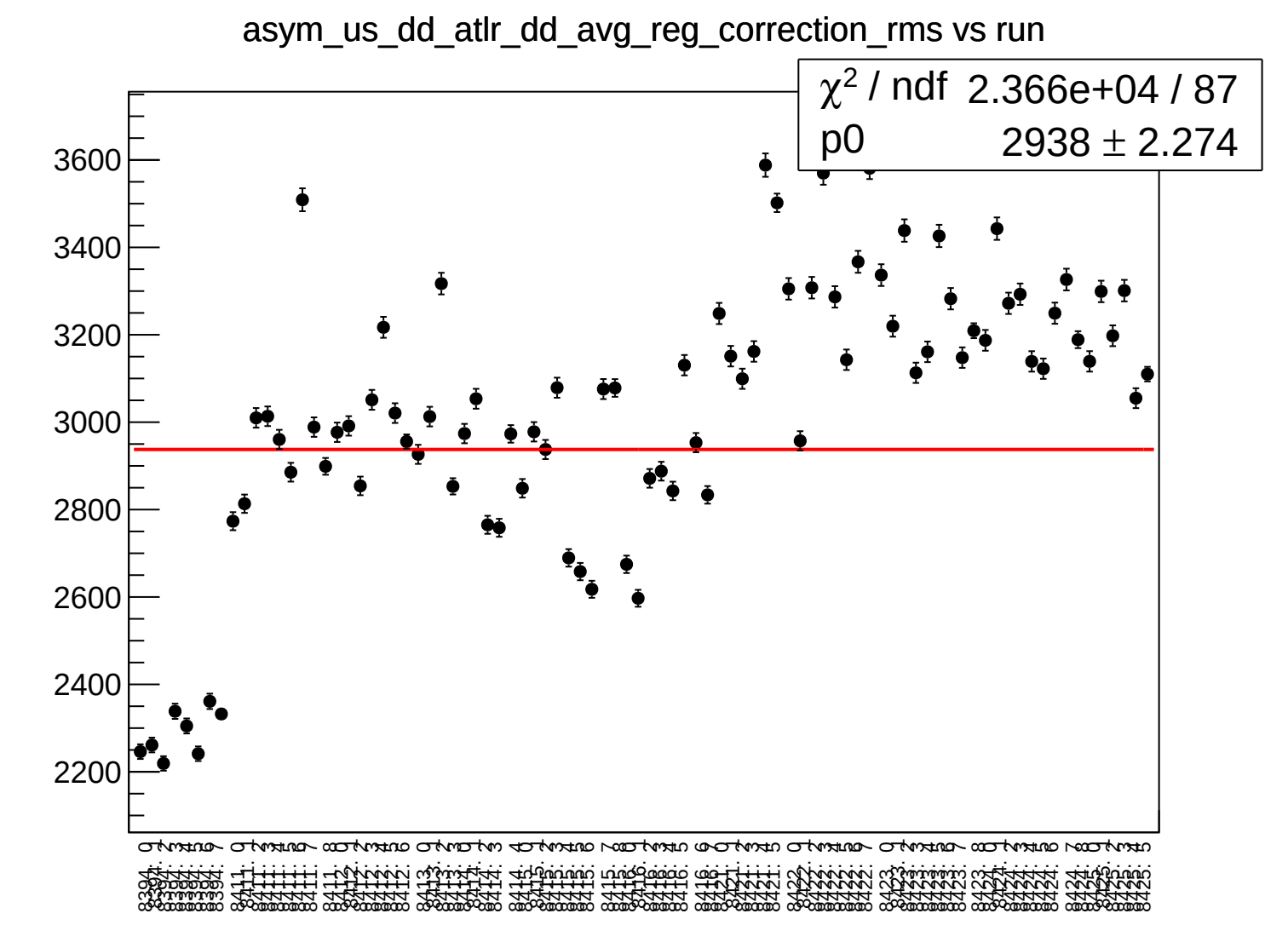

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 73.5 / 87
p0 −1953 ± 1917
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −193.1
Std Dev 0
3
2
1
0
−1
−2

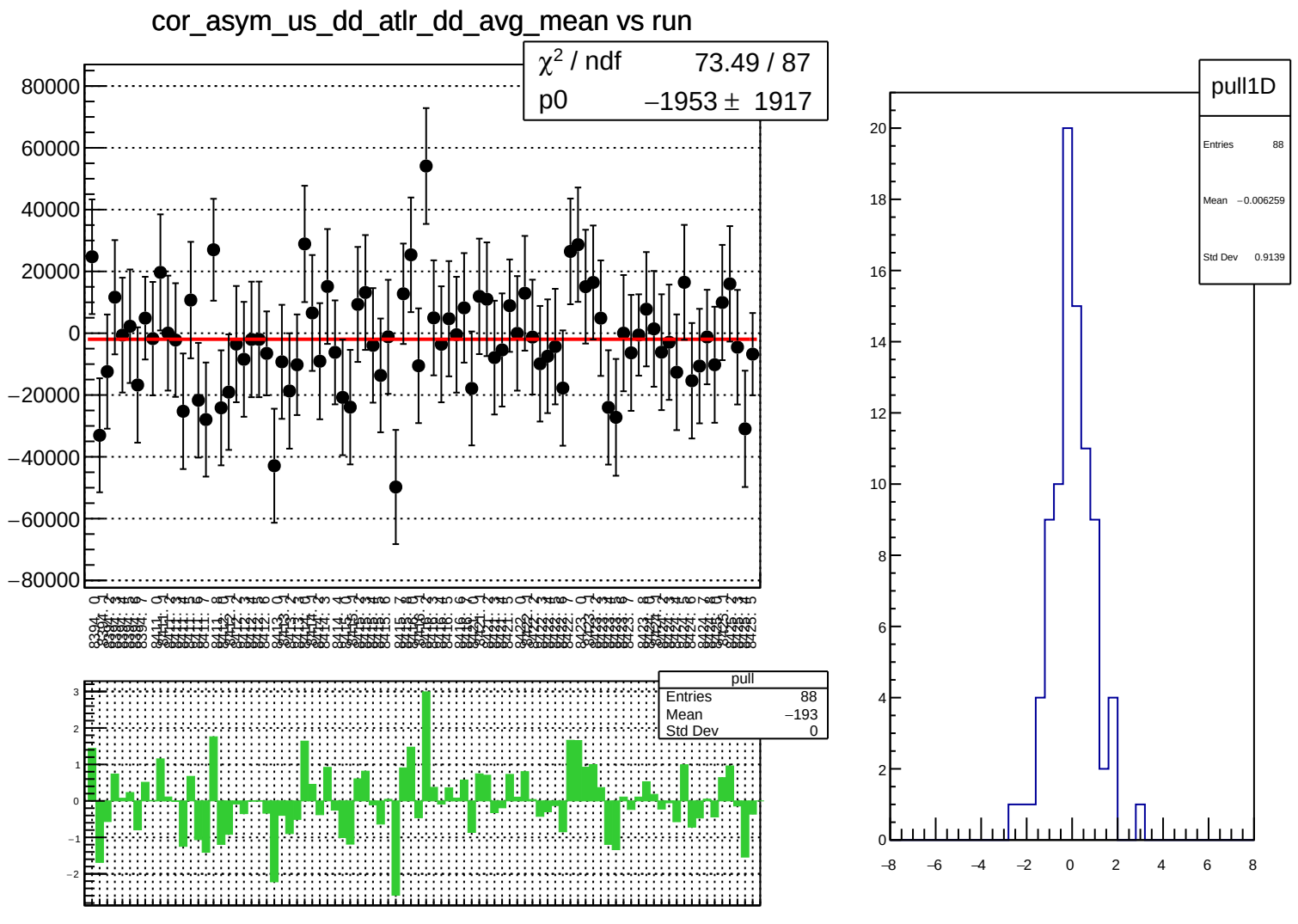

pull1D
Entries 88
Mean −0.006261
Std Dev 0.9139
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

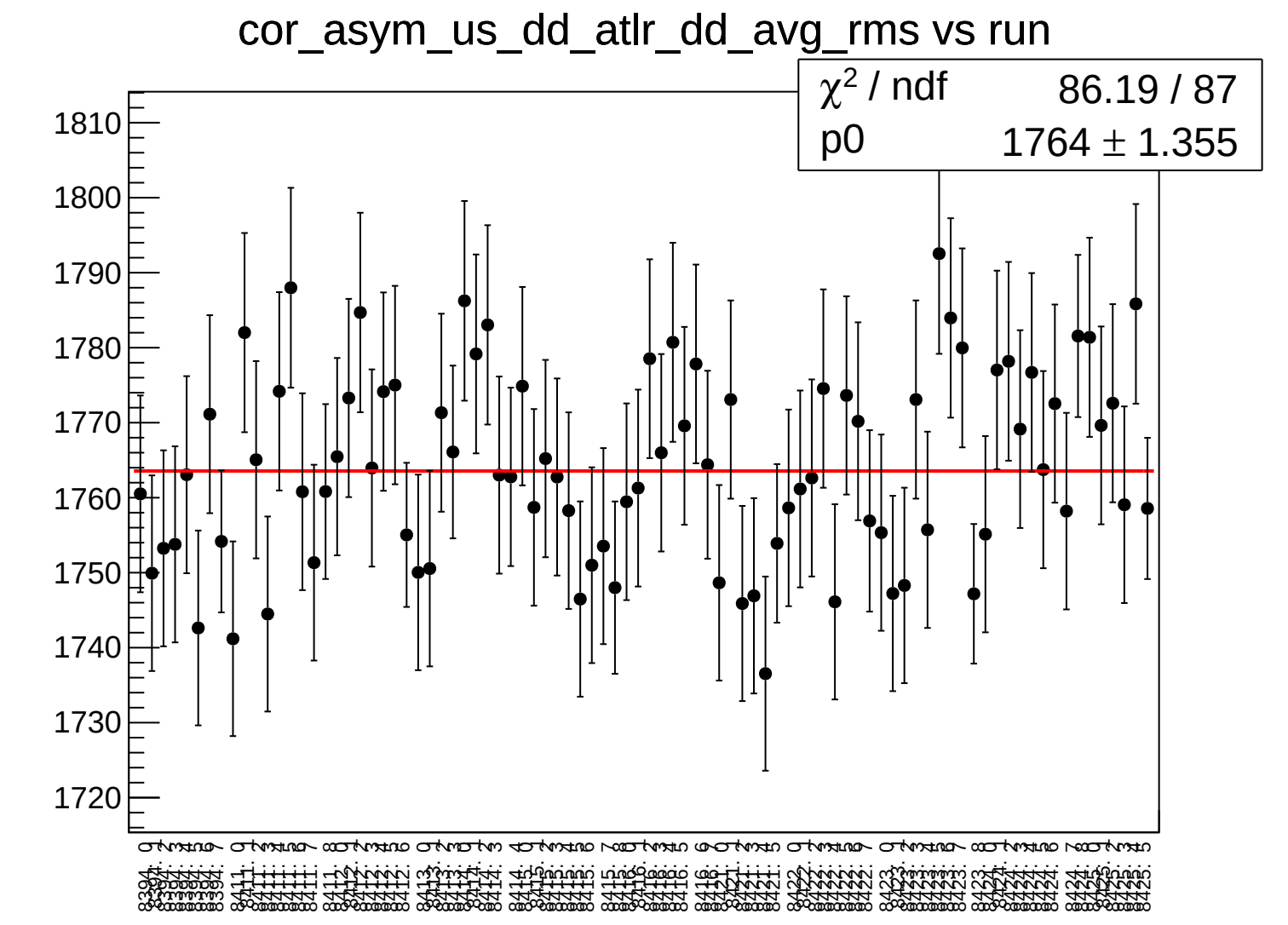

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 86.19 / 87
p0 1764 ± 1.355
1810
1800
1790
1780
1770
1760
1750
1740
1730
1720

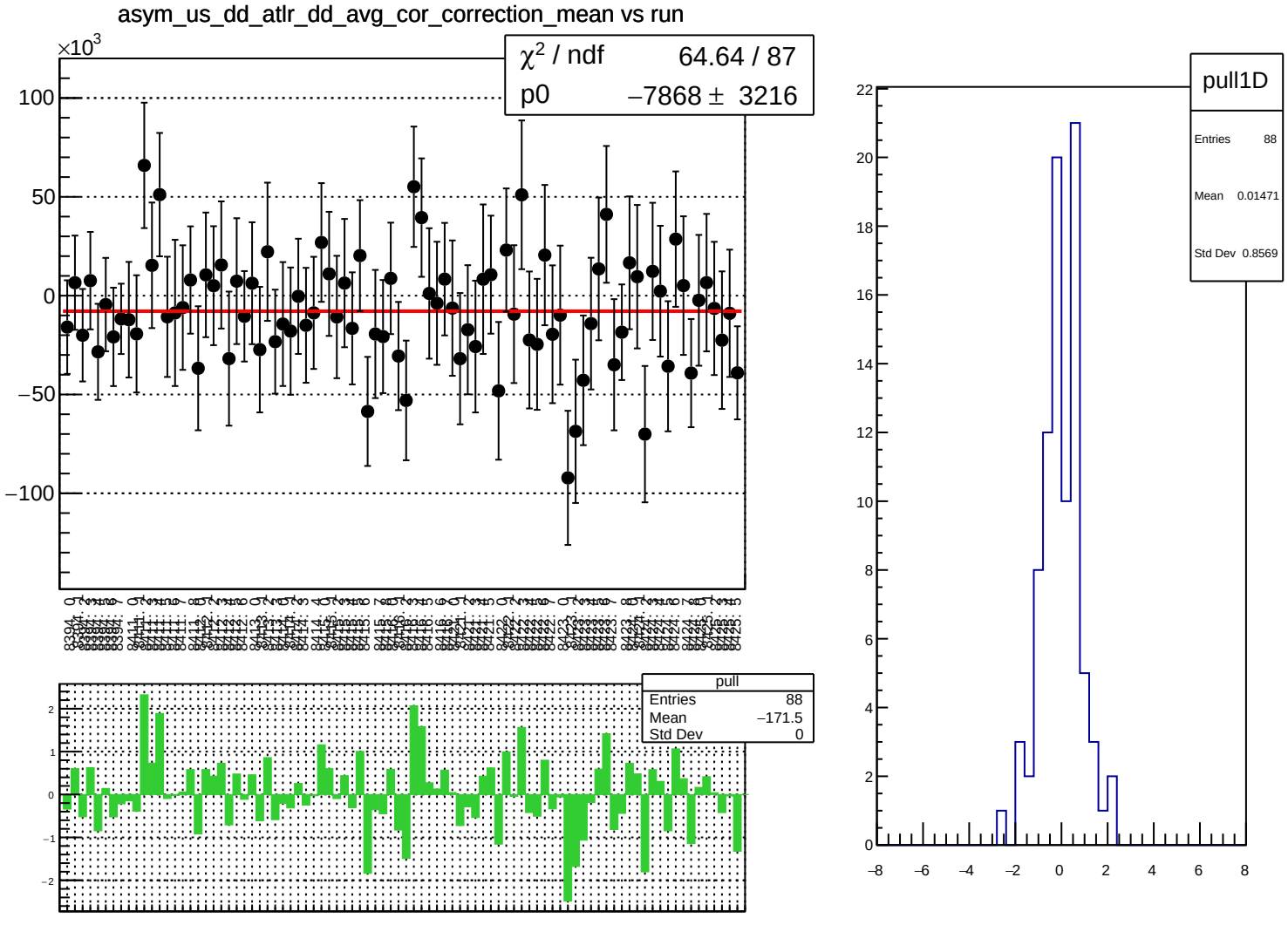

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 64.64 / 87
p0 −7868 ± 3216
100
50
0
−50
−100
pull
Entries 88
Mean −171.4
Std Dev 0
2
1
0
−1
−2

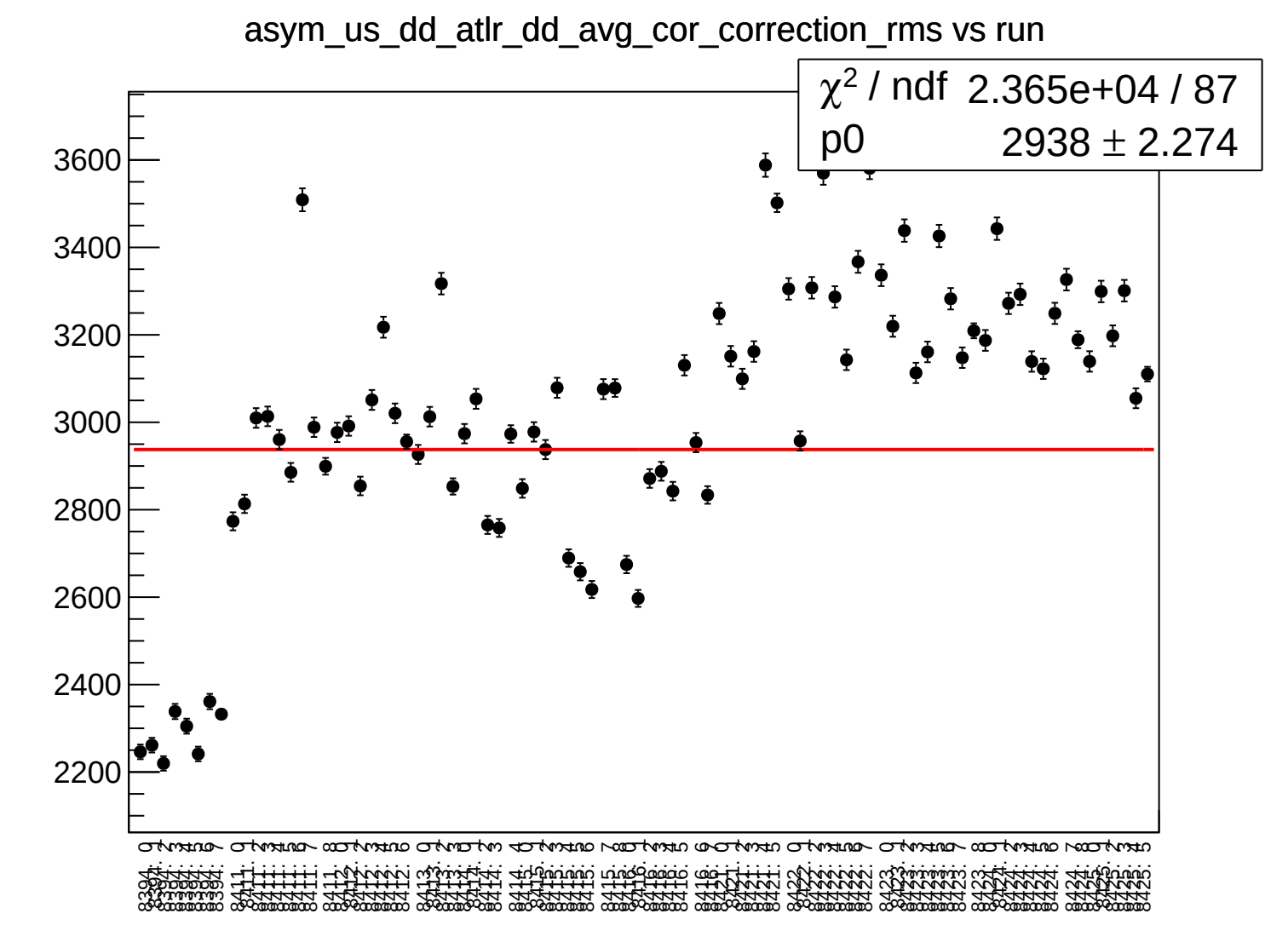

pull1D
Entries 88
Mean 0.01472
Std Dev 0.8569
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

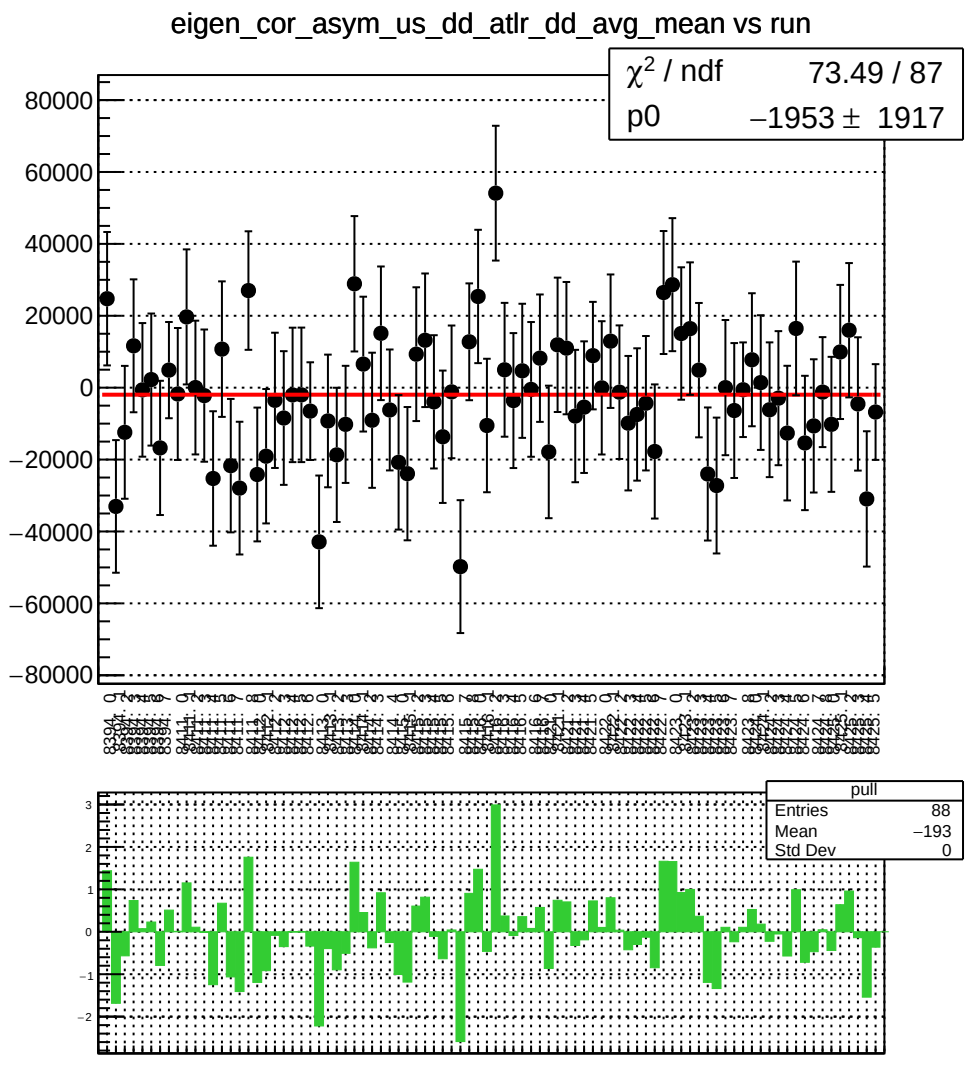

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 2.366e+04 / 87
p0 2938 ± 2.274
3600
3400
3200
3000
2800
2600
2400
2200

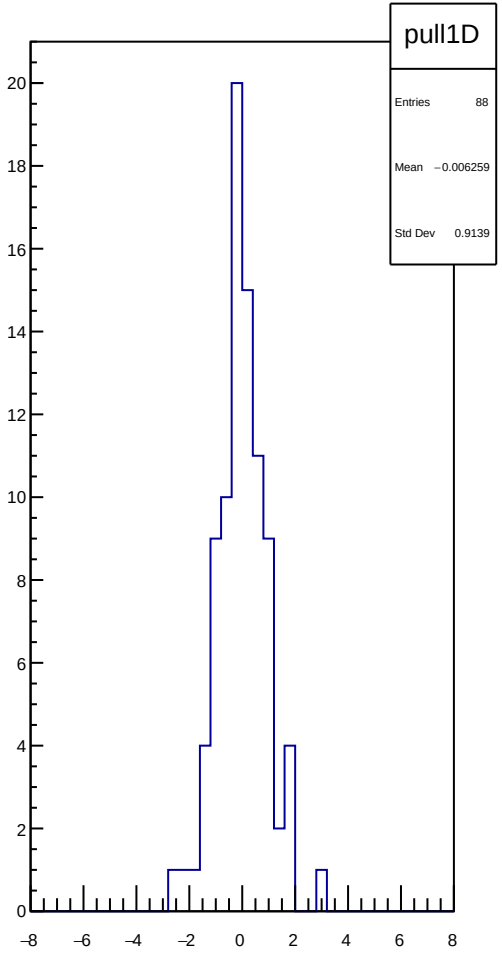

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 73.49 / 87
p0 −1953 ± 1917
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −193
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.006259
Std Dev 0.9139
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

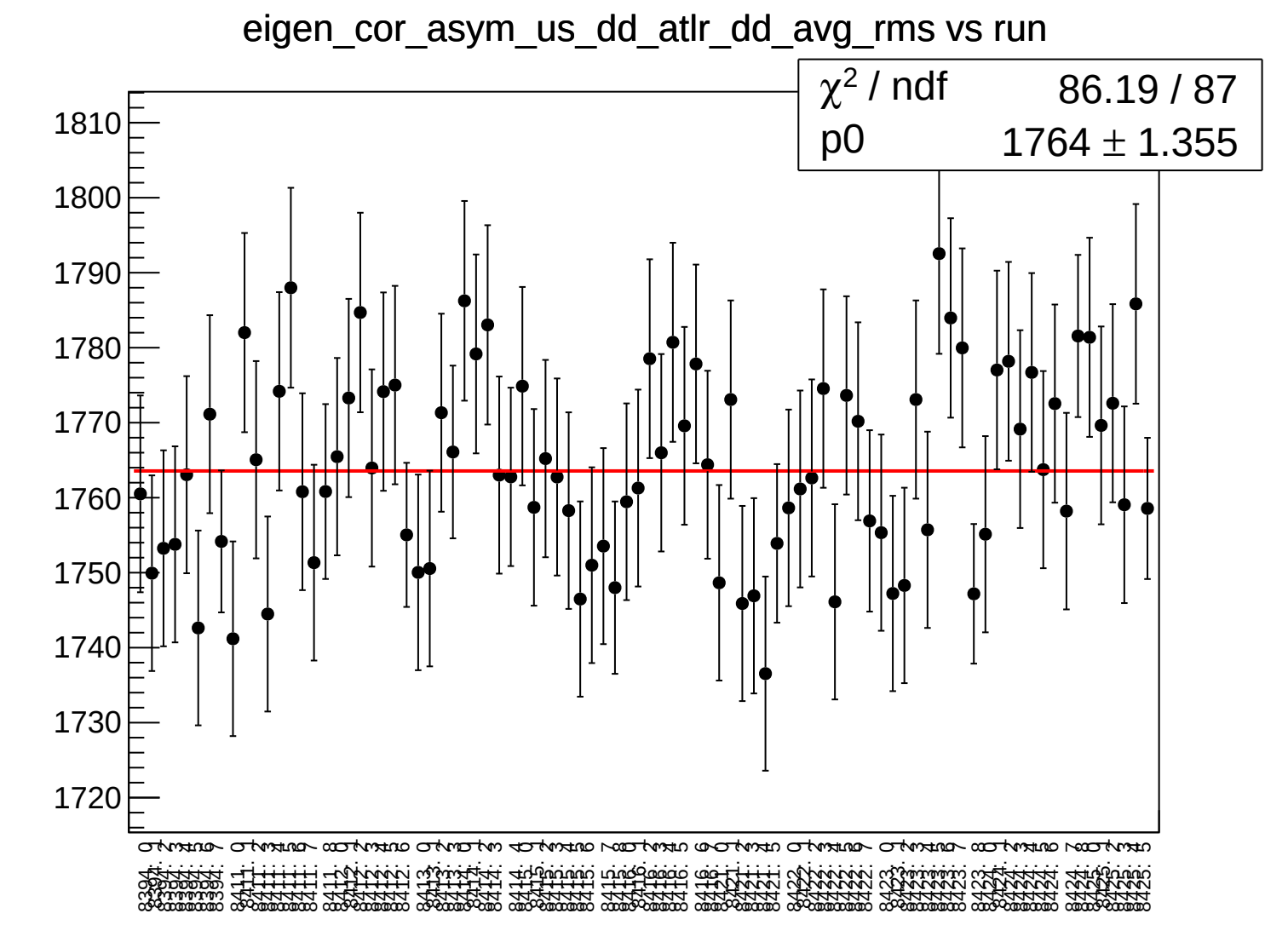

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 86.19 / 87
p0 1764 ± 1.355
1810
1800
1790
1780
1770
1760
1750
1740
1730
1720

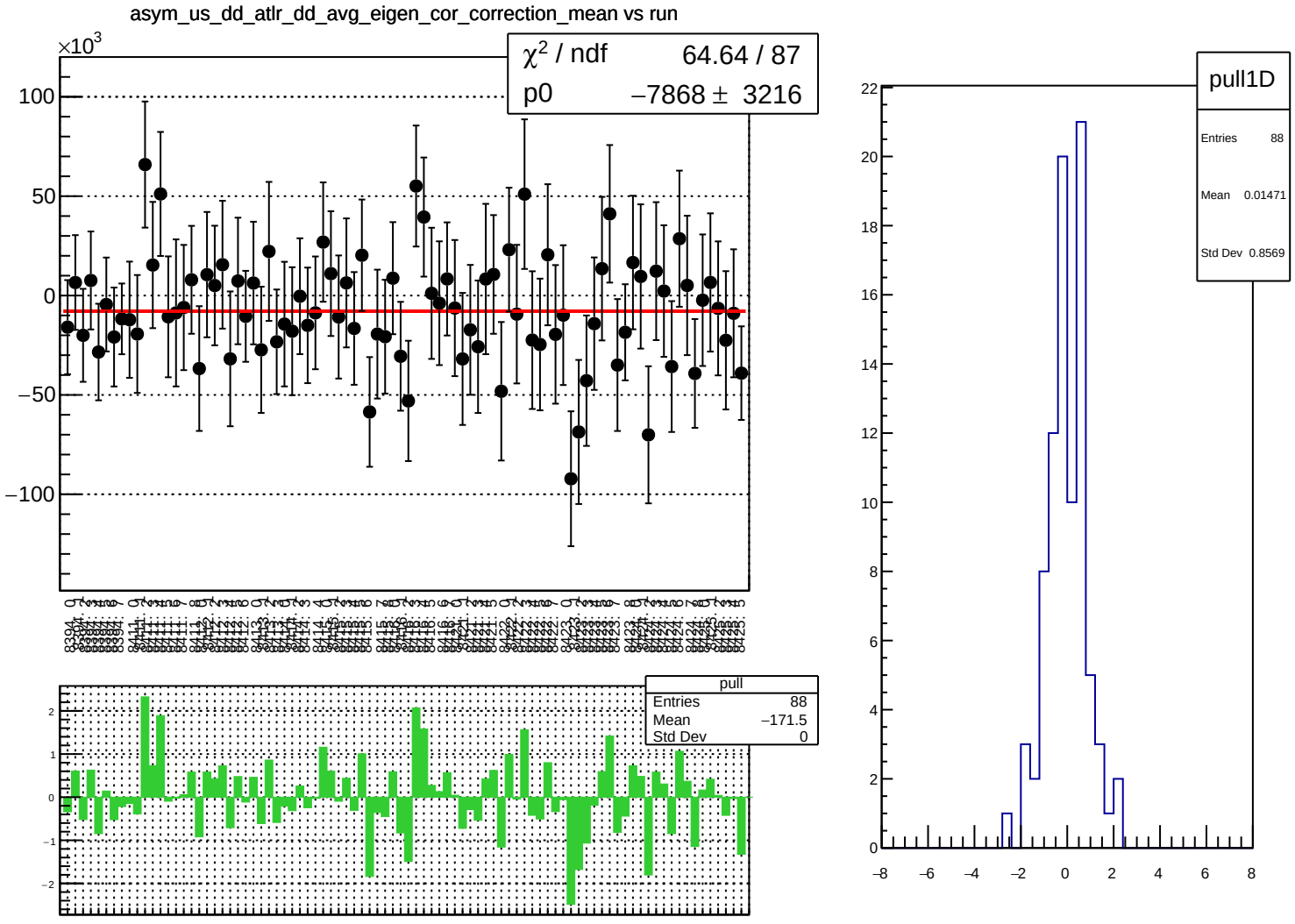

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 64.64 / 87
p0 −7868 ± 3216
100
50
0
−50
−100
pull
Entries 88
Mean −171.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01471
Std Dev 0.8569
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

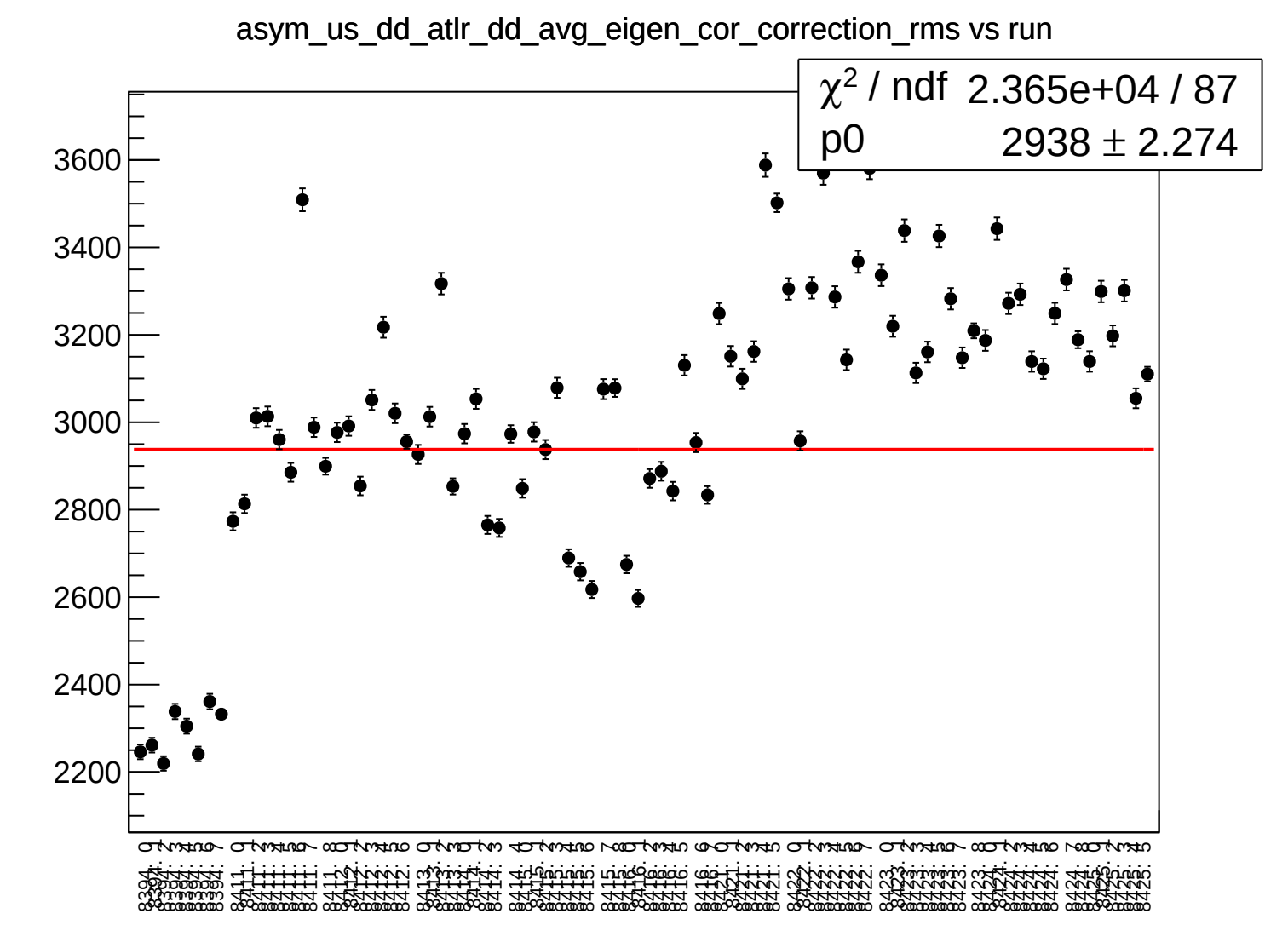

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 2.365e+04 / 87
p0 2938 ± 2.274
3600
3400
3200
3000
2800
2600
2400
2200

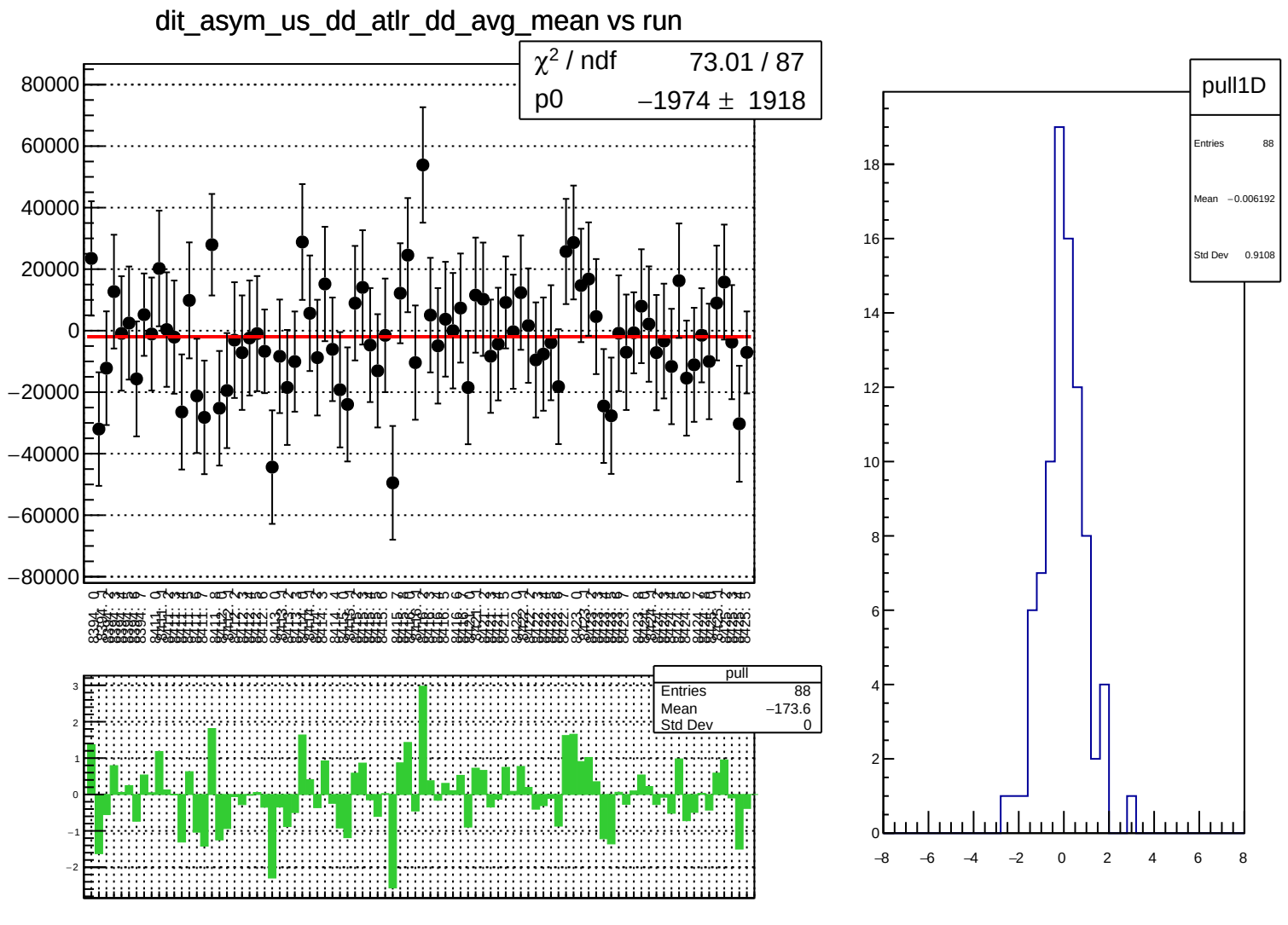

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 73.49 / 87
p0 −1953 ± 1917
pull
Entries 88
Mean −193
Std Dev 0

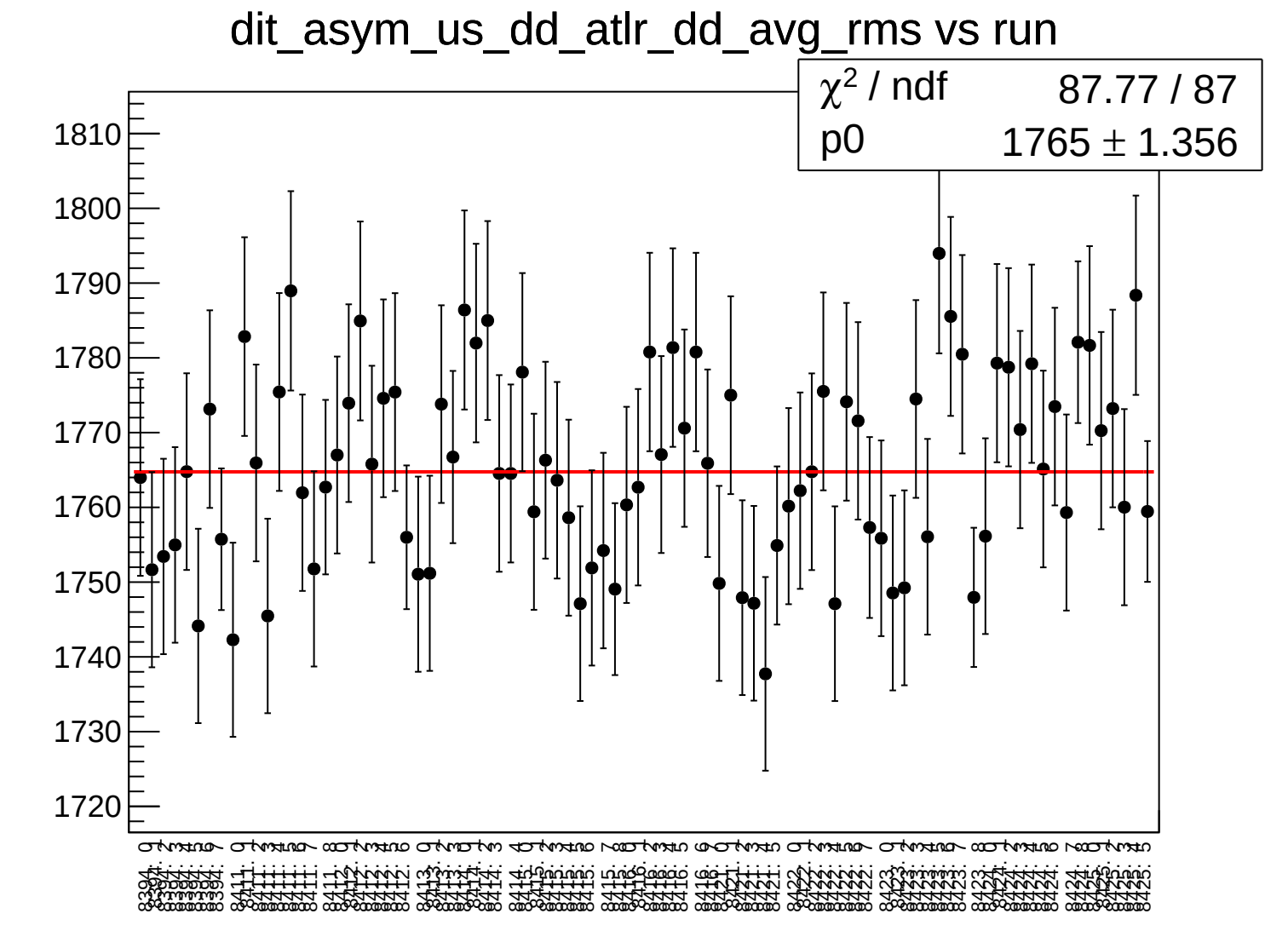

pull1D
Entries 88
Mean −0.006259
Std Dev 0.9139

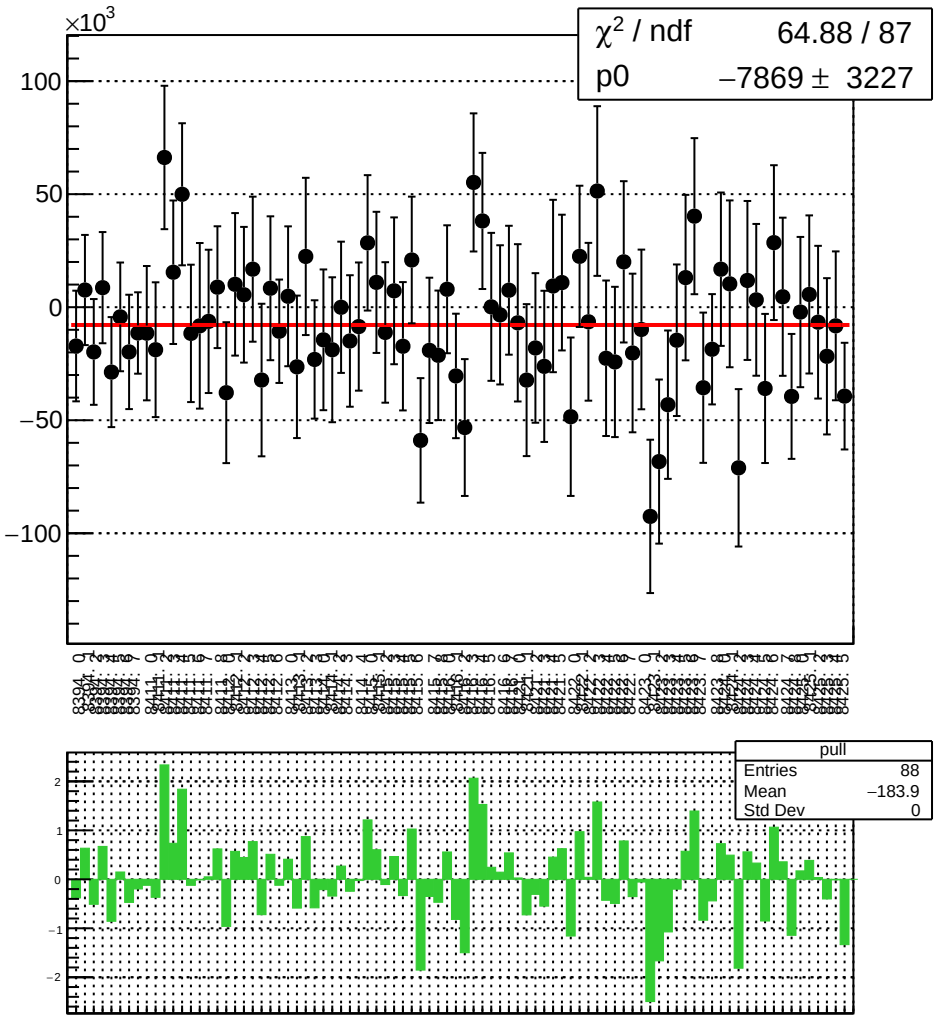

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 86.19 / 87
p0 1764 ± 1.355
1810
1800
1790
1780
1770
1760
1750
1740
1730
1720

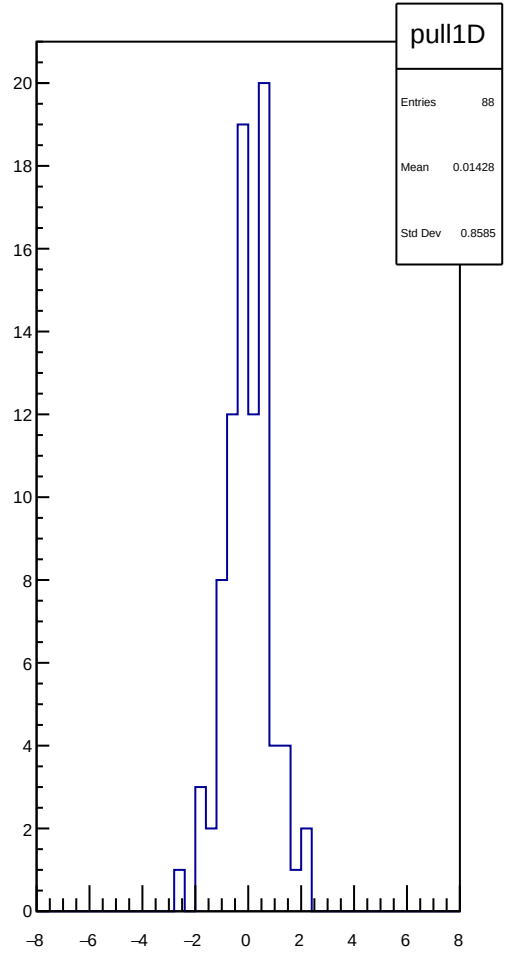

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 64.64 / 87
p0 −7868 ± 3216
100
50
0
−50
−100
pull
Entries 88
Mean −171.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01471
Std Dev 0.8569
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

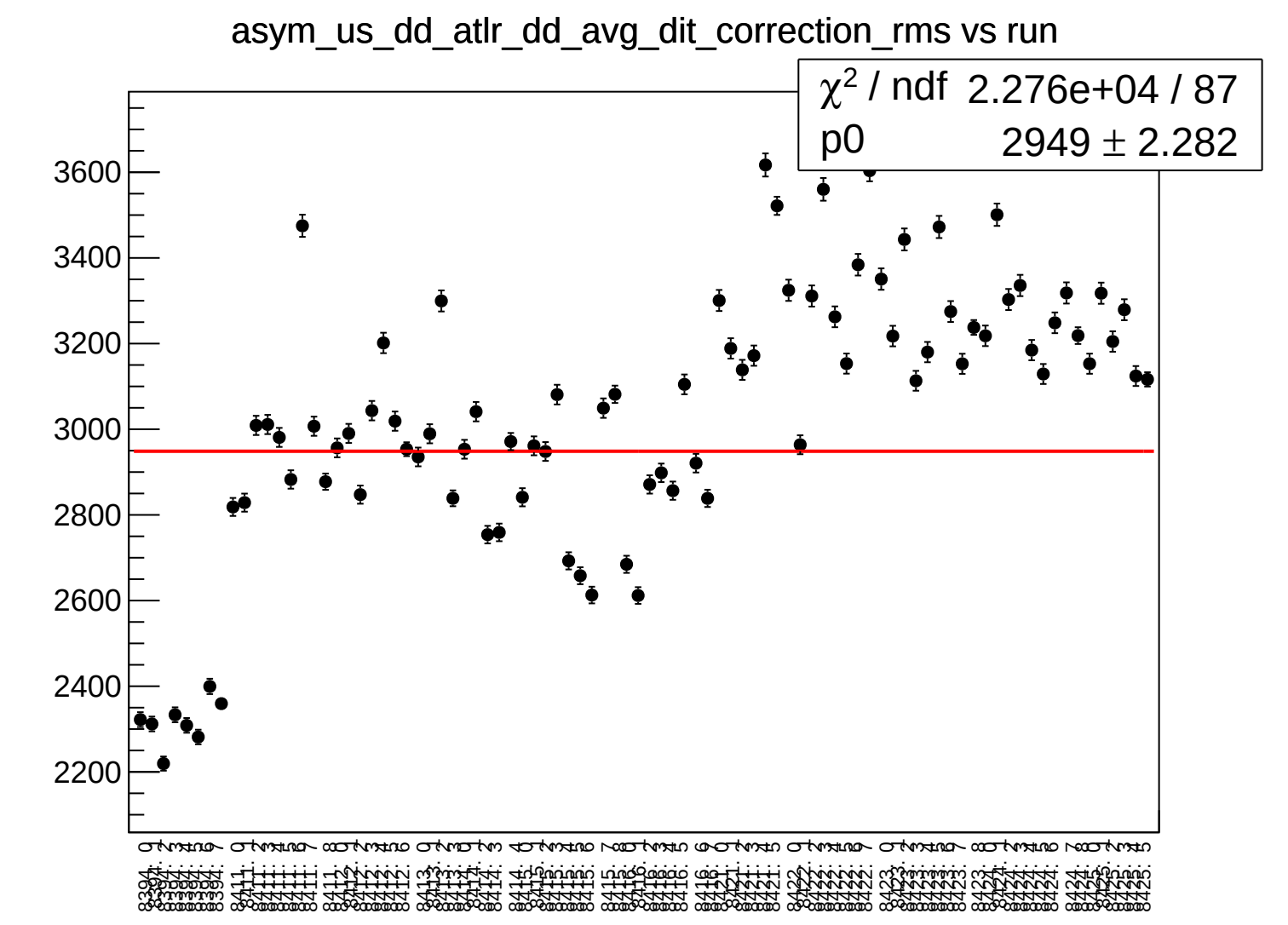

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.365e+04 / 87
p0 2938 ± 2.274
3600
3400
3200
3000
2800
2600
2400
2200

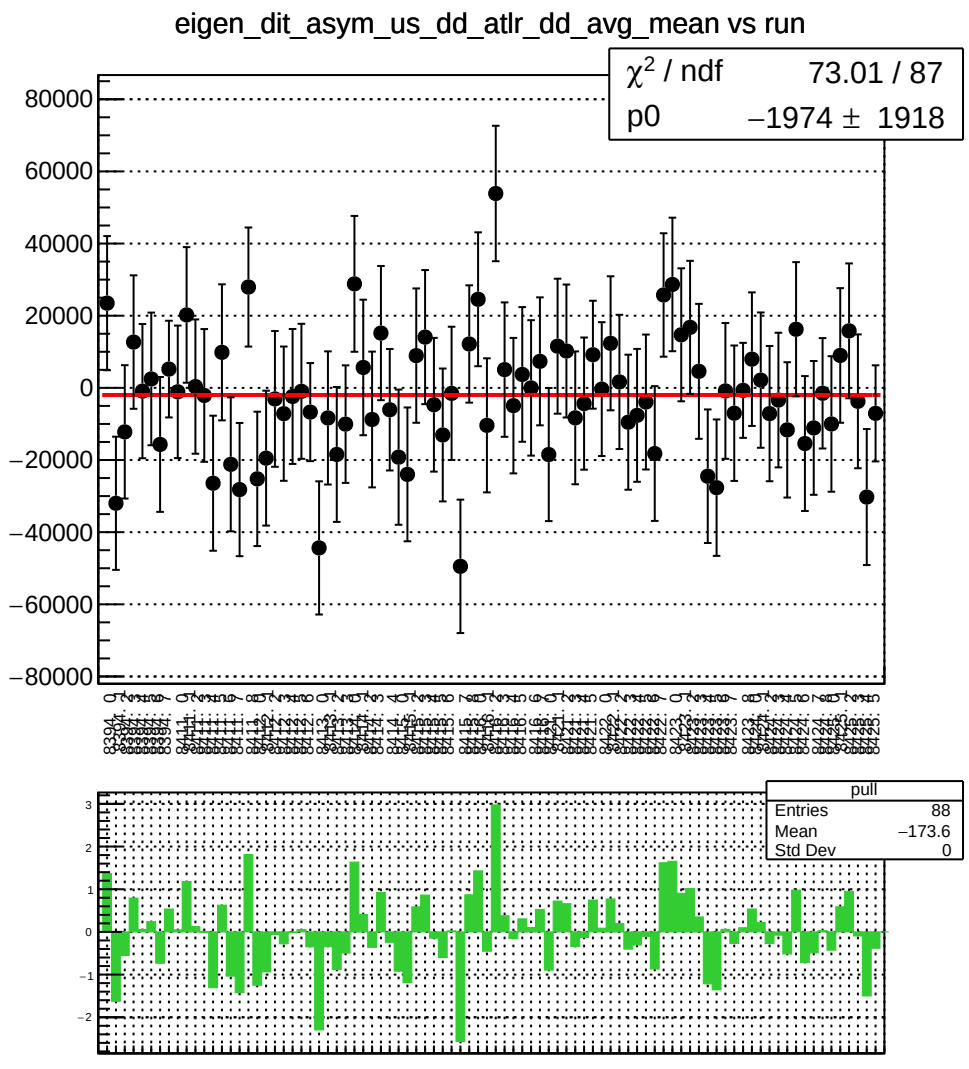

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 73.01 / 87
p0 −1974 ± 1918
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −173.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.006192
Std Dev 0.9108
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

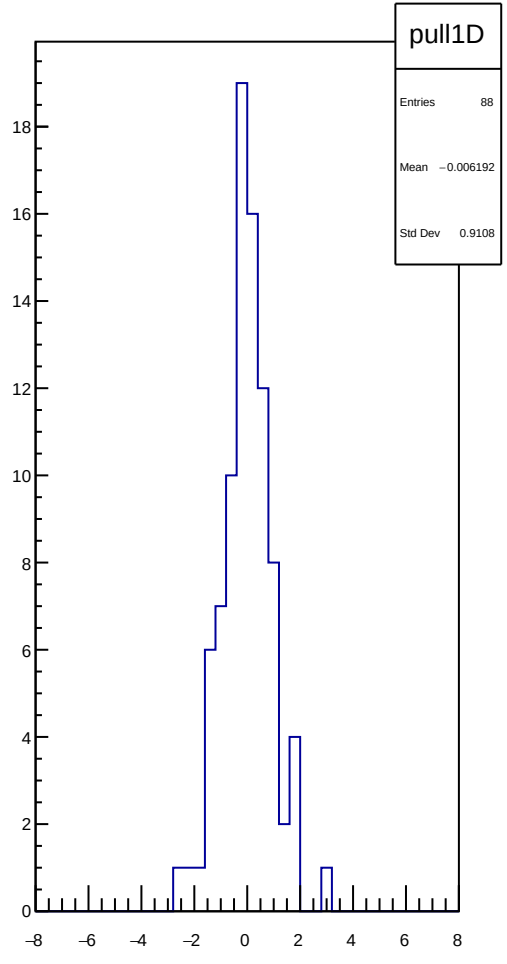

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 87.77 / 87
p0 1765 ± 1.356
1810
1800
1790
1780
1770
1760
1750
1740
1730
1720

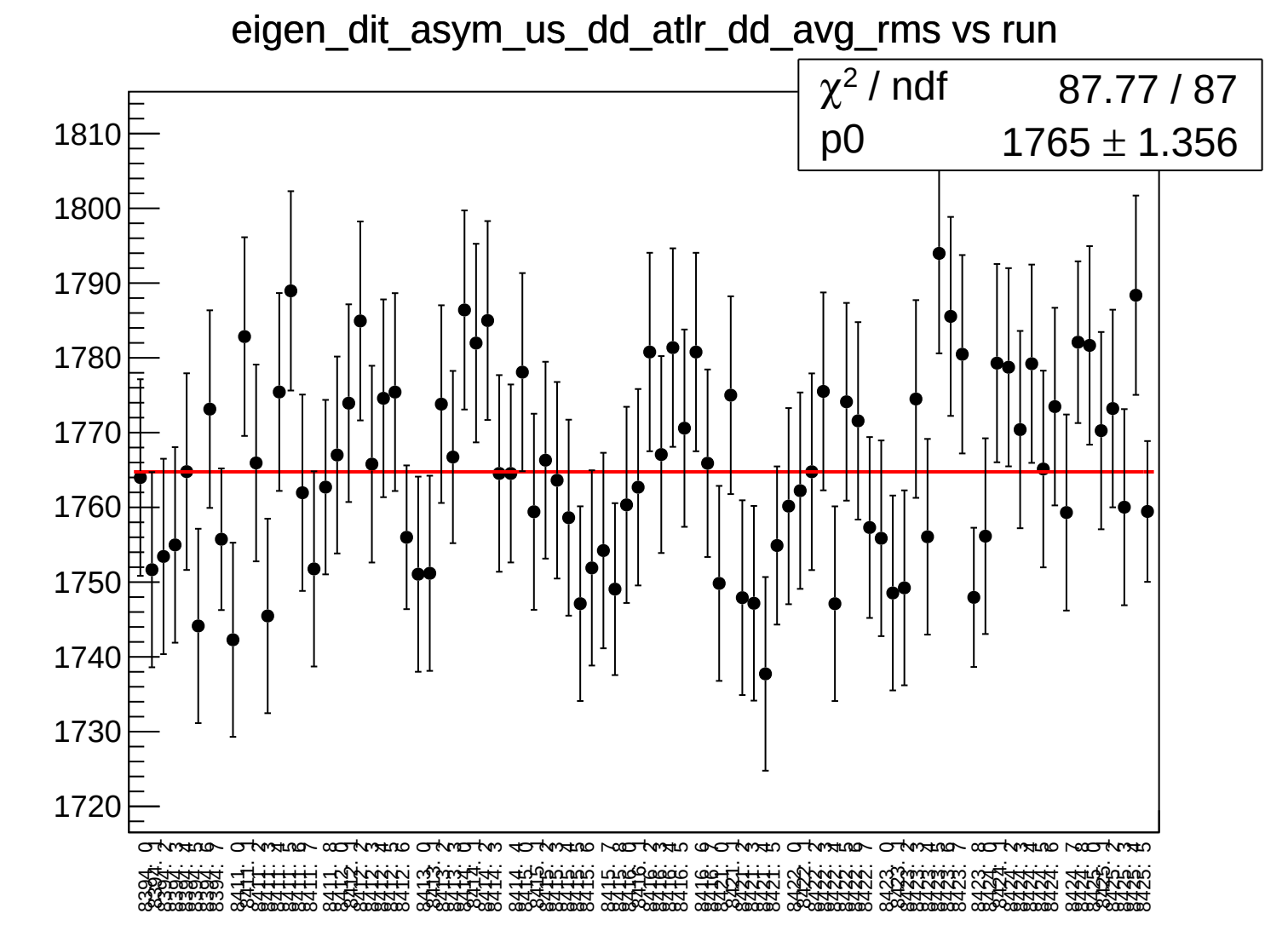

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 64.88 / 87
p0 −7869 ± 3227
pull
Entries 88
Mean −183.9
Std Dev 0

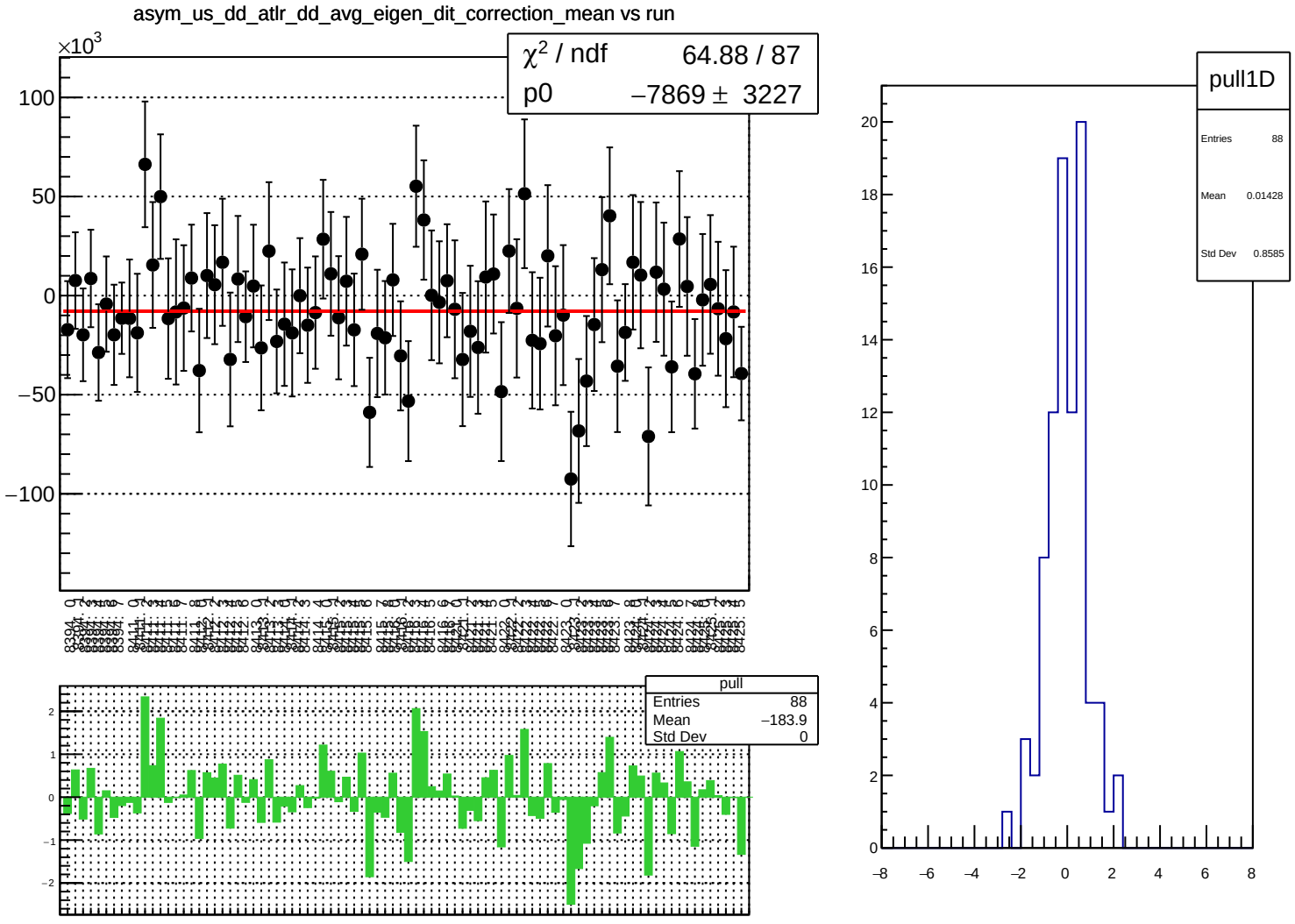

pull1D
Entries 88
Mean 0.01428
Std Dev 0.8585

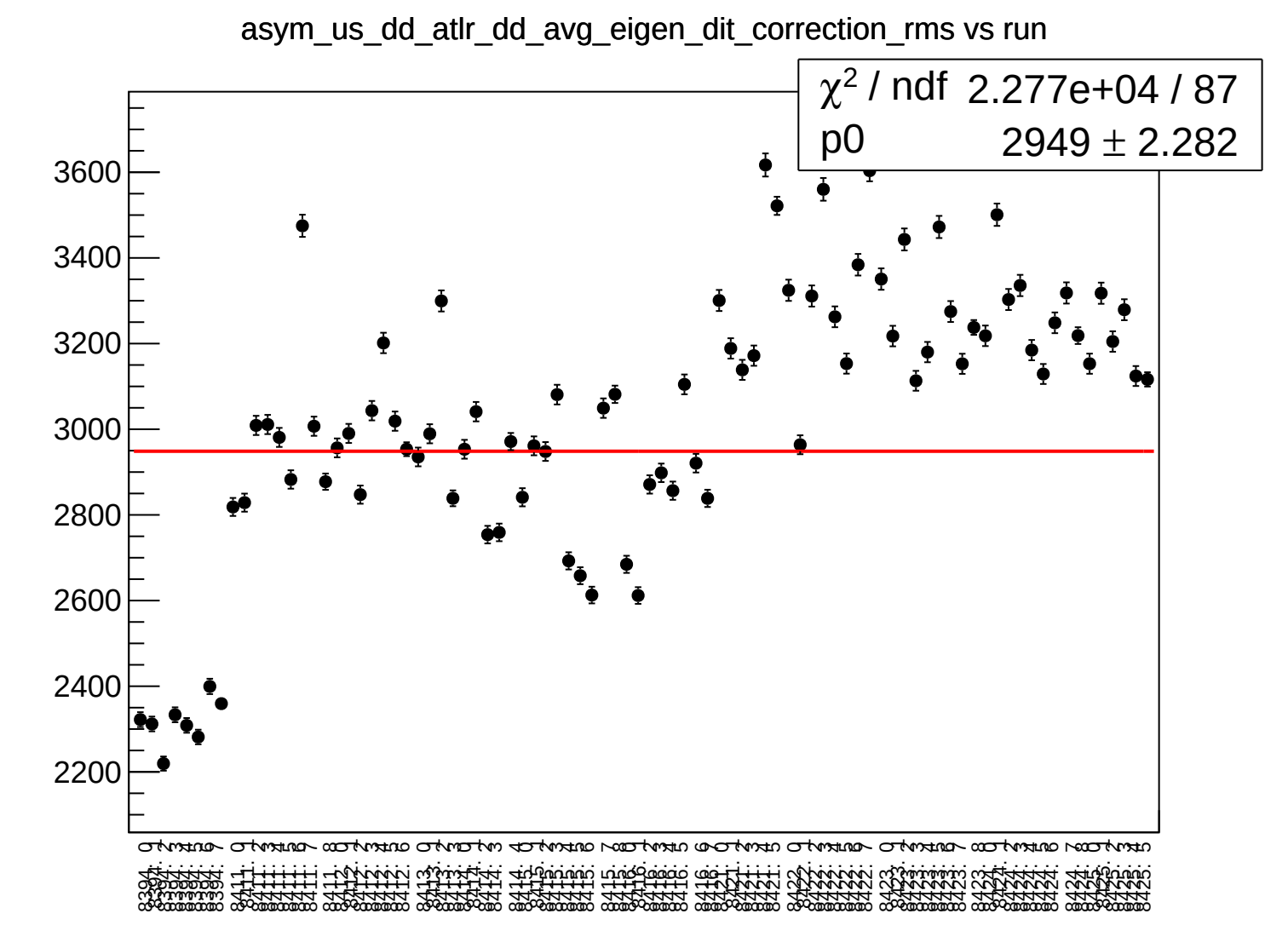

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 2.276e+04 / 87
p0 2949 ± 2.282
3600
3400
3200
3000
2800
2600
2400
2200

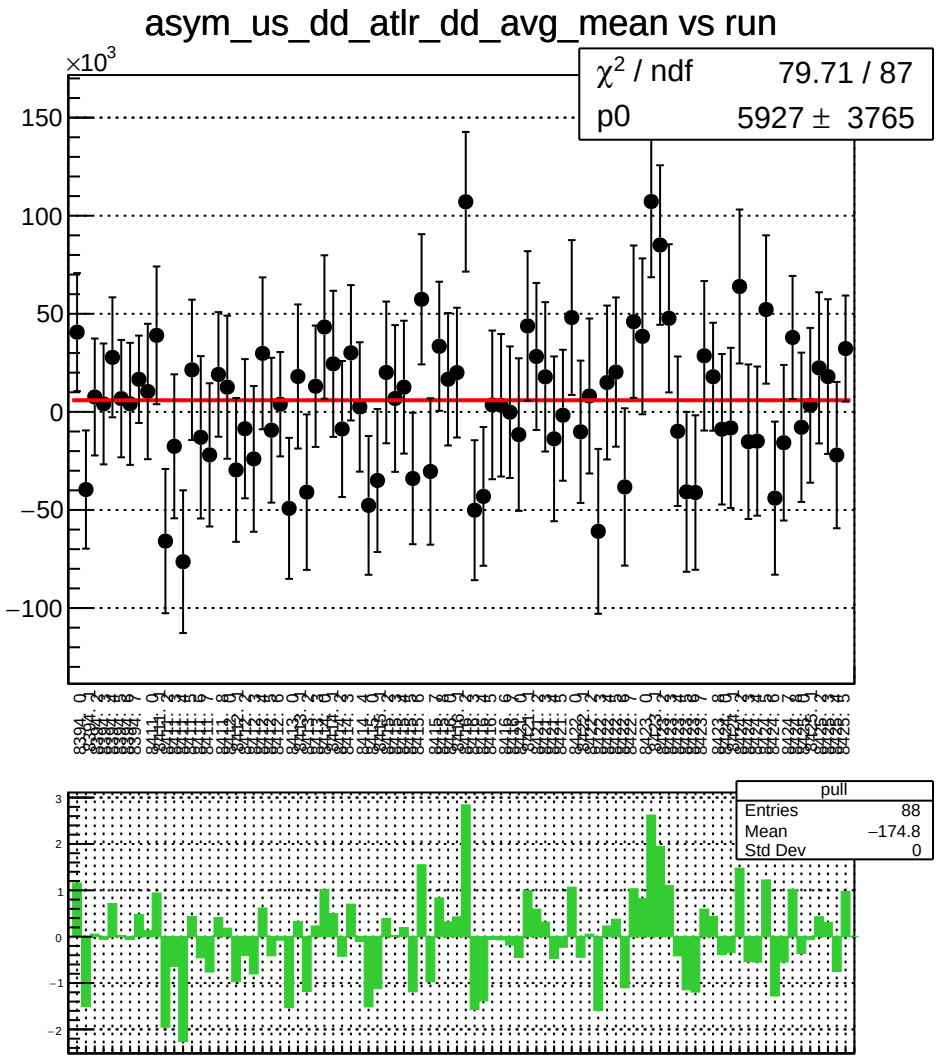

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 73.01 / 87
p0 −1974 ± 1918
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −173.6
Std Dev 0
3
2
1
0
−1
−2

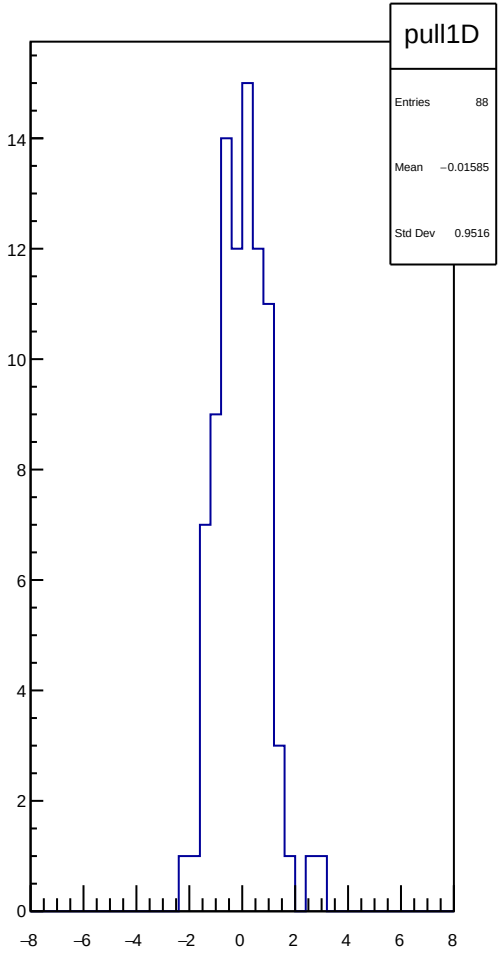

pull1D
Entries 88
Mean −0.006192
Std Dev 0.9108
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

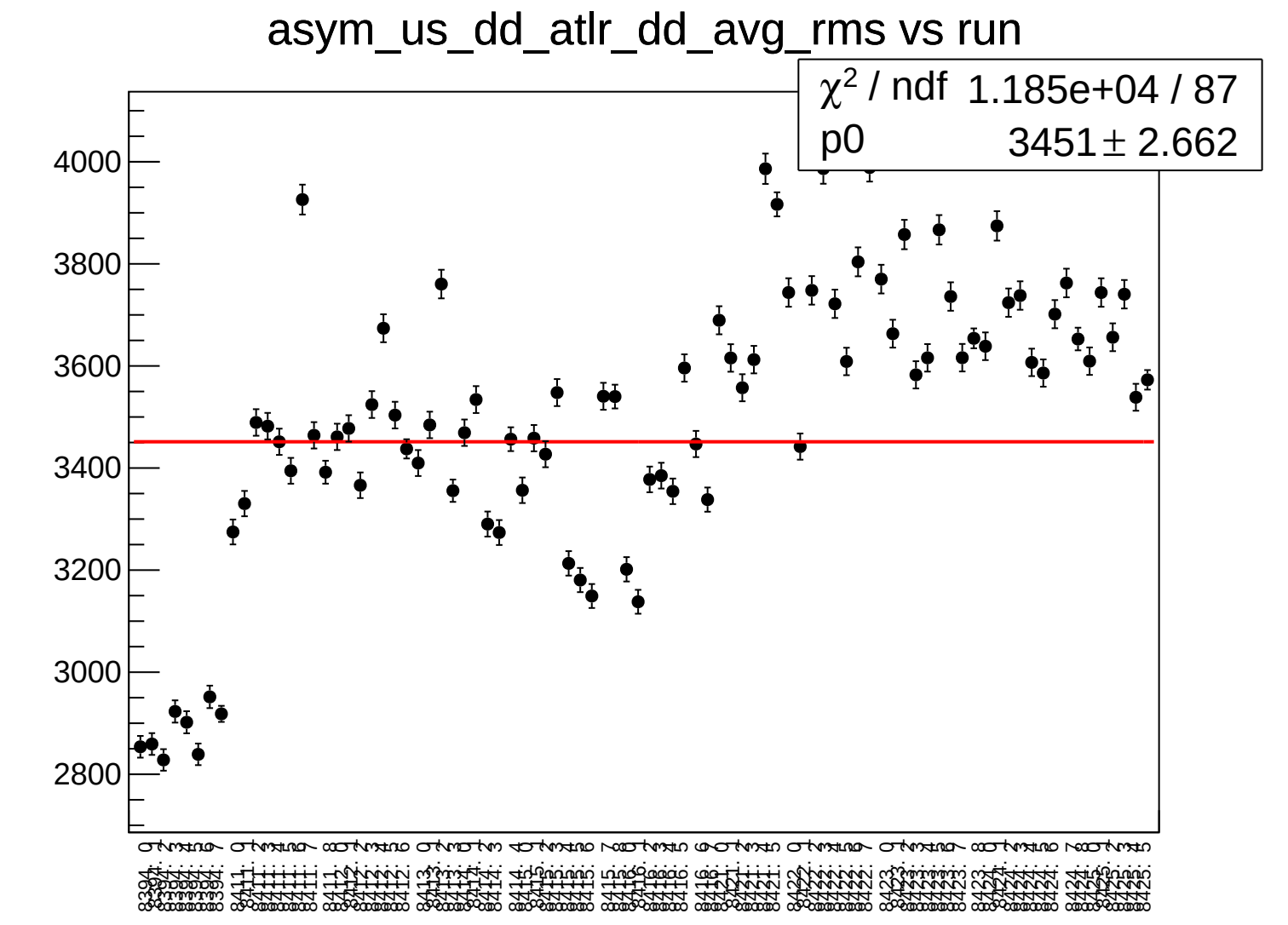

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 87.77 / 87
p0 1765 ± 1.356
1810
1800
1790
1780
1770
1760
1750
1740
1730
1720

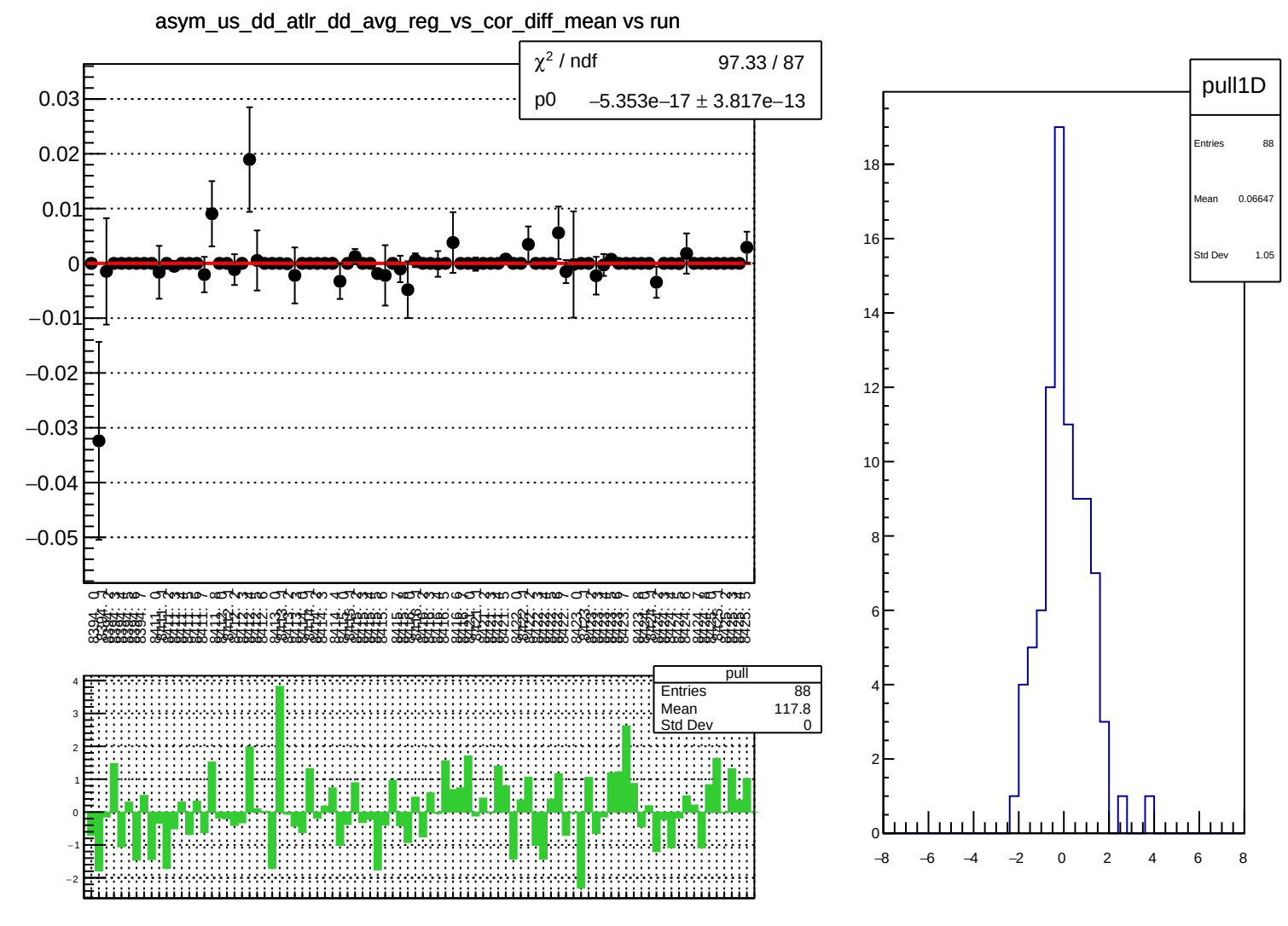

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 64.88 / 87
p0 −7869 ± 3227
100
50
0
−50
−100
pull
Entries 88
Mean −183.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01428
Std Dev 0.8585
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

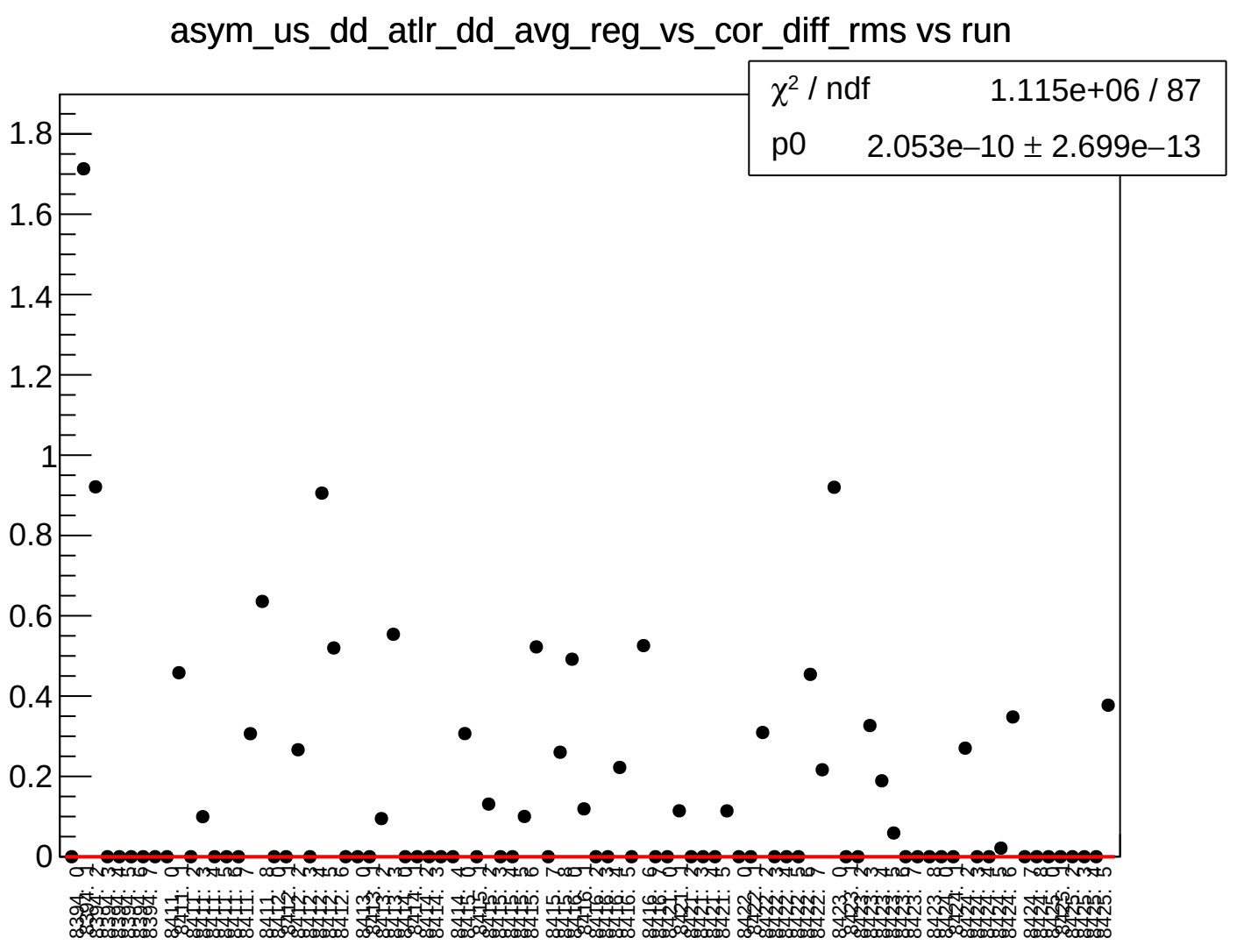

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.277e+04 / 87
p0 2949 ± 2.282
3600
3400
3200
3000
2800
2600
2400
2200

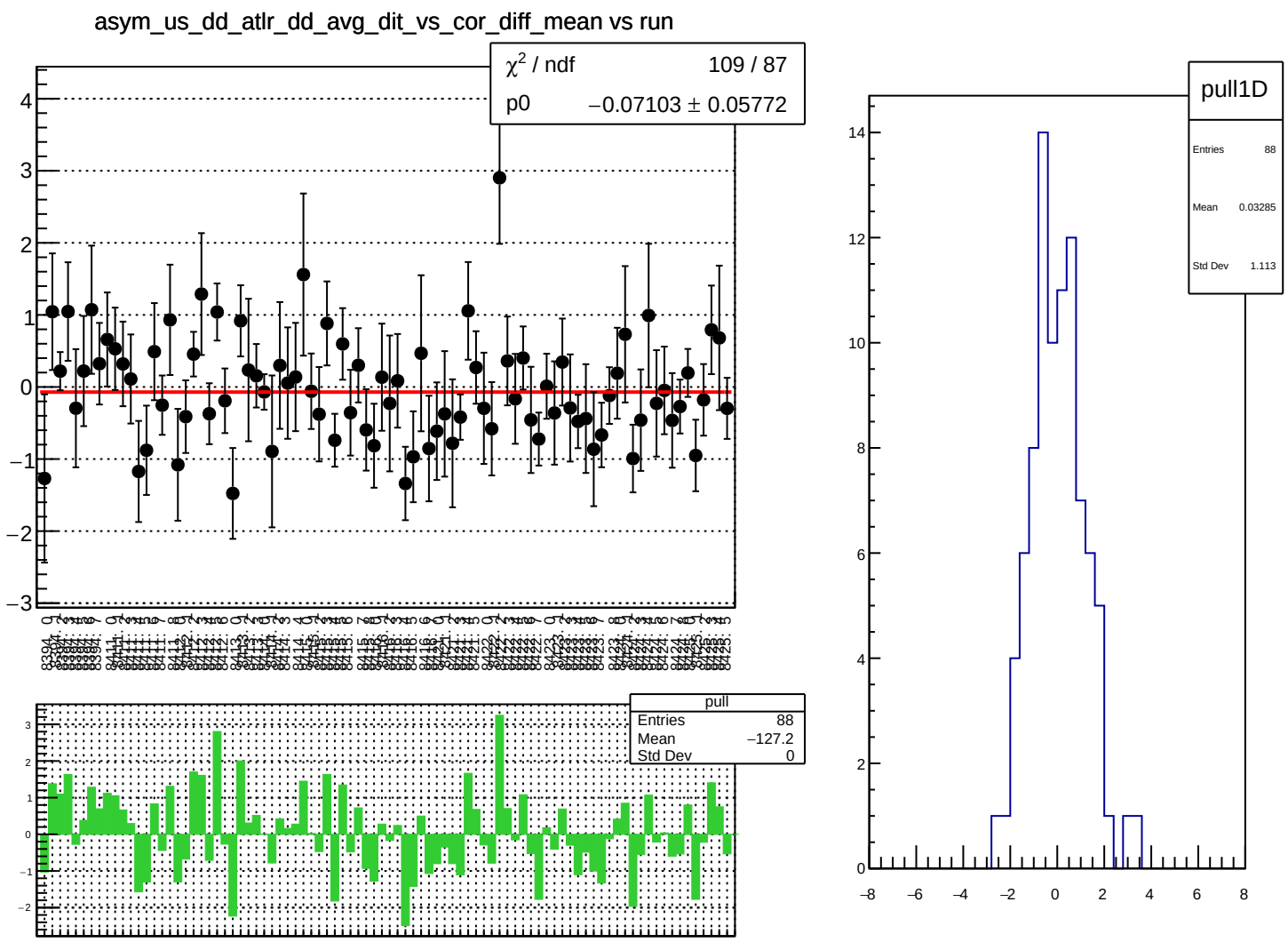

asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ² / ndf 79.71 / 87
p0 5927 ± 3765
150
100
50
0
−50
−100
pull
Entries 88
Mean −174.8
Std Dev 0
3
2
1
0
−1
−2

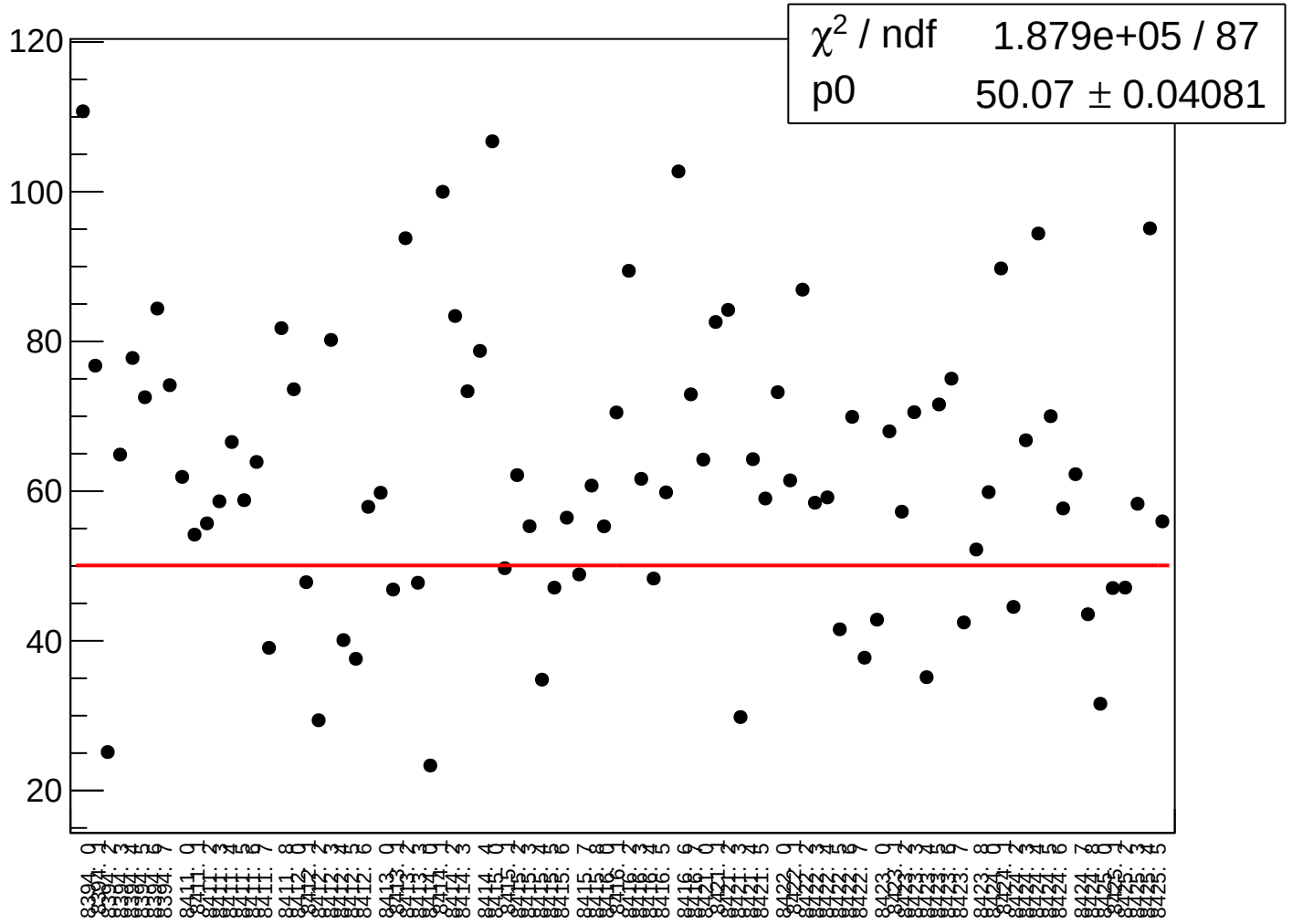

pull1D
Entries 88
Mean −0.01585
Std Dev 0.9516
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

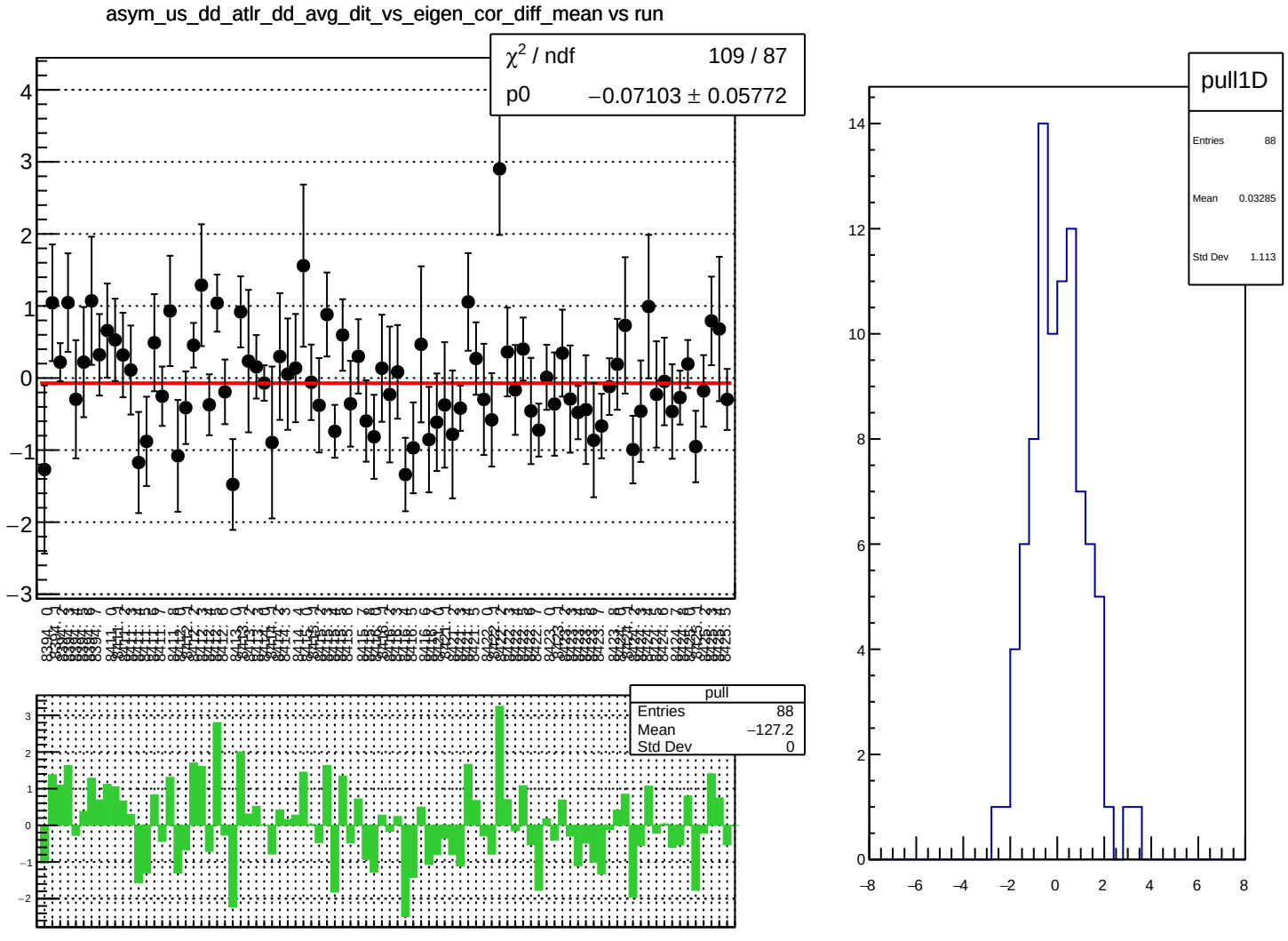

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 1.185e+04 / 87
p0 3451 ± 2.662
4000
3800
3600
3400
3200
3000
2800

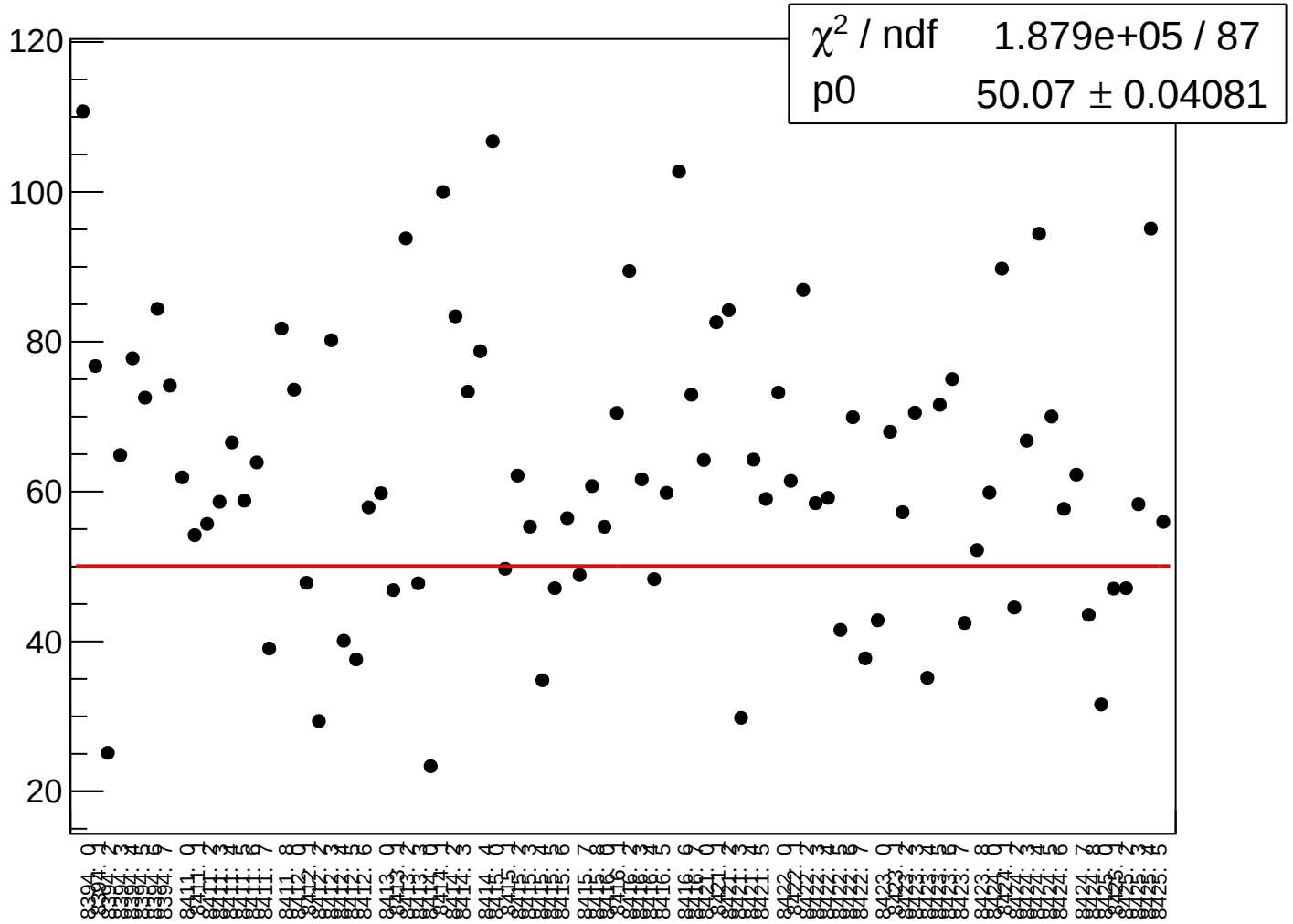

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 97.33 / 87
p0 −5.353e−17 ± 3.817e−13
pull
Entries 88
Mean 117.8
Std Dev 0
pull1D
Entries 88
Mean 0.06647
Std Dev 1.05

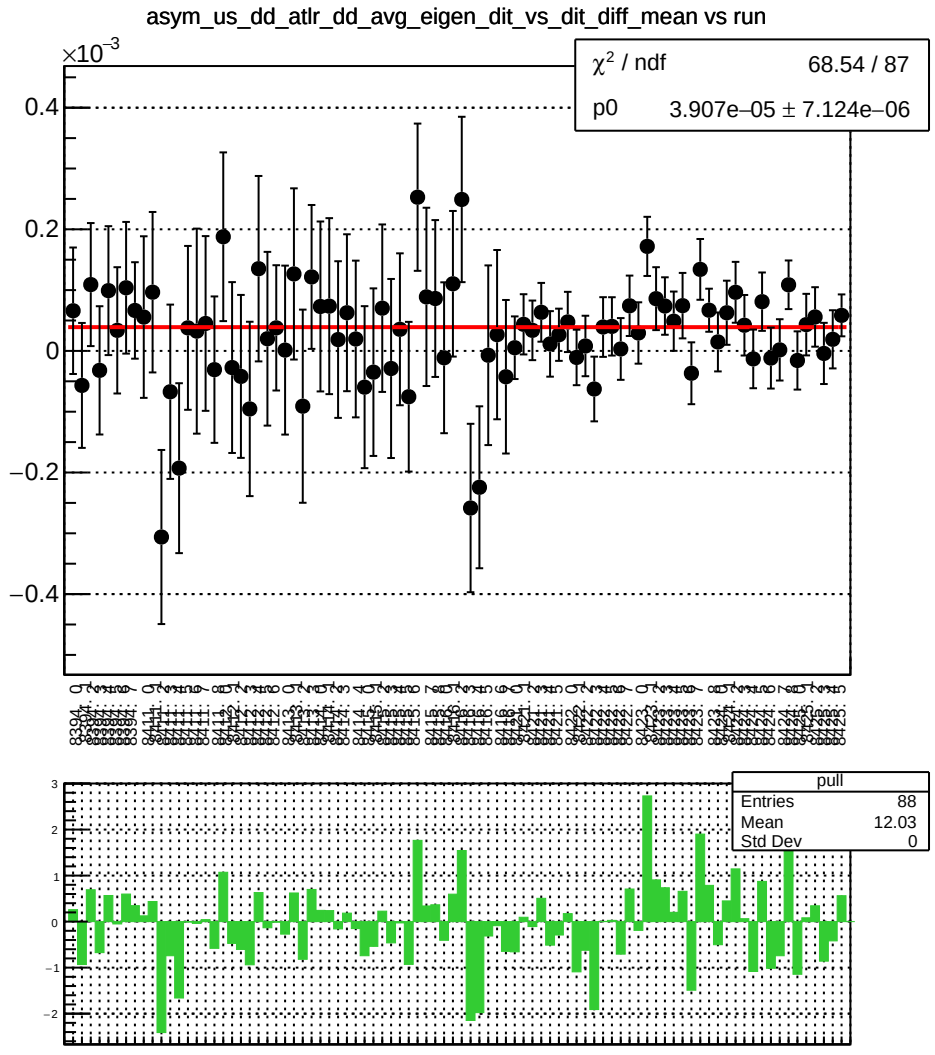

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.115e+06 / 87
p0 2.053e−10 ± 2.699e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

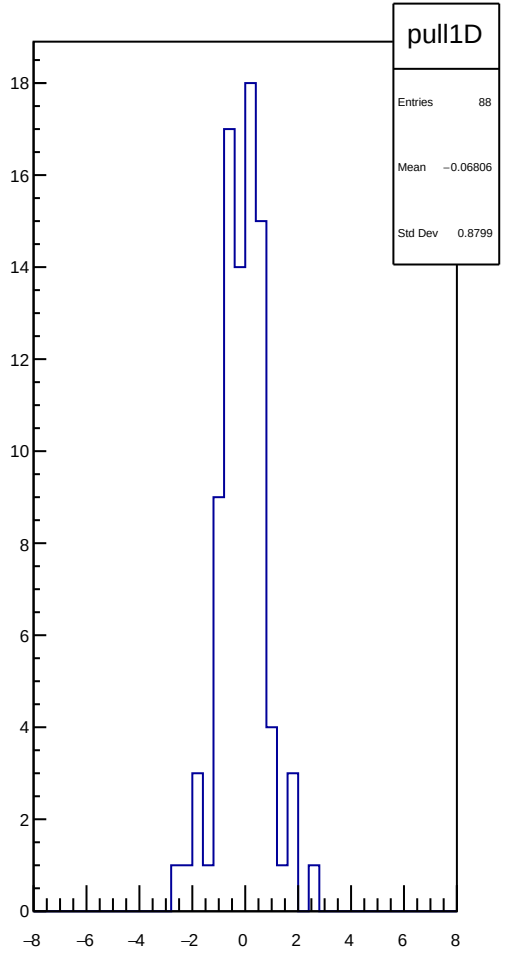

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 109 / 87
p0 −0.07103 ± 0.05772
pull
Entries 88
Mean −127.2
Std Dev 0
pull1D
Entries 88
Mean 0.03285
Std Dev 1.113

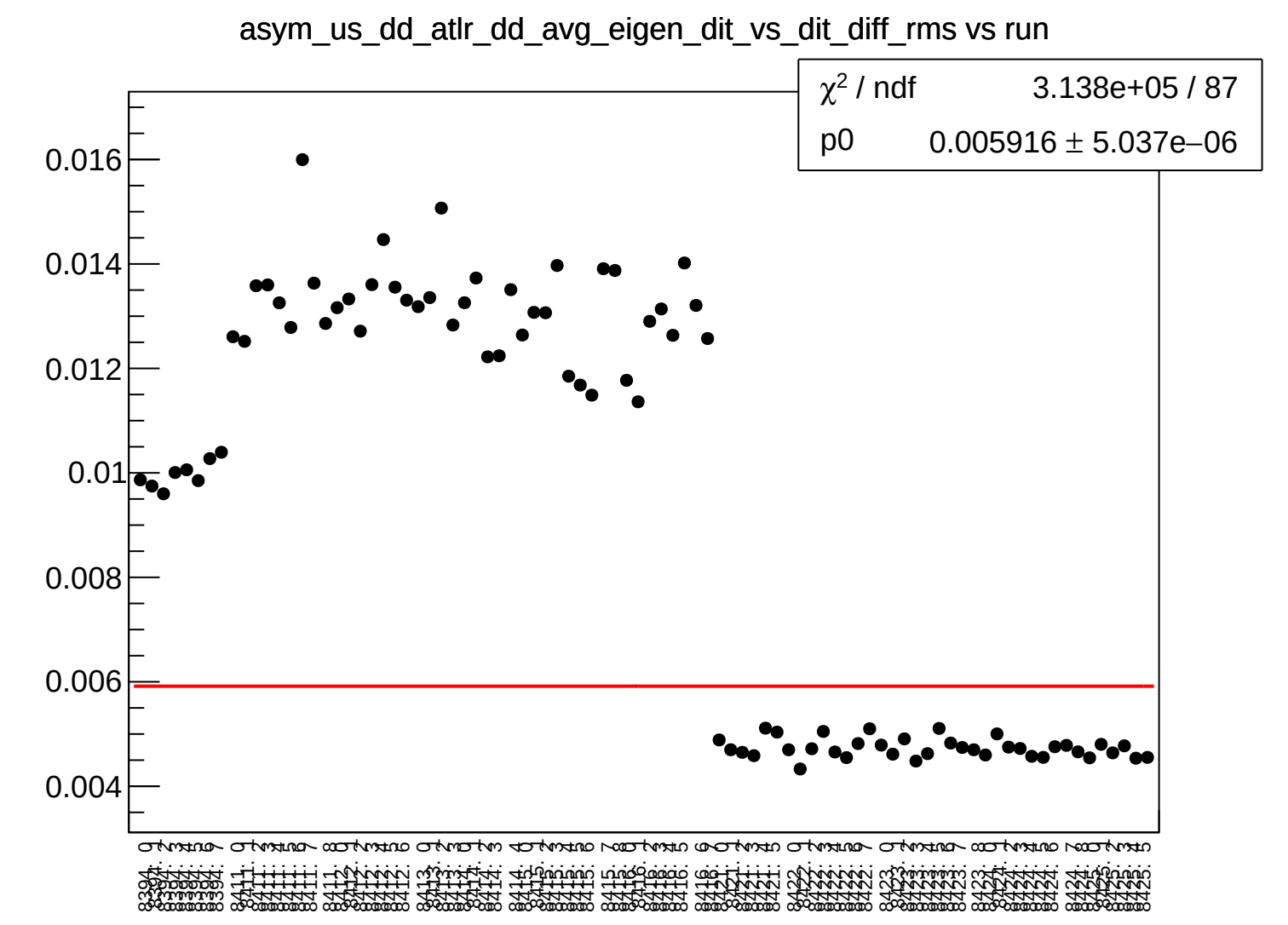

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.879e+05 / 87
p0 50.07 ± 0.04081
120
100
80
60
40
20

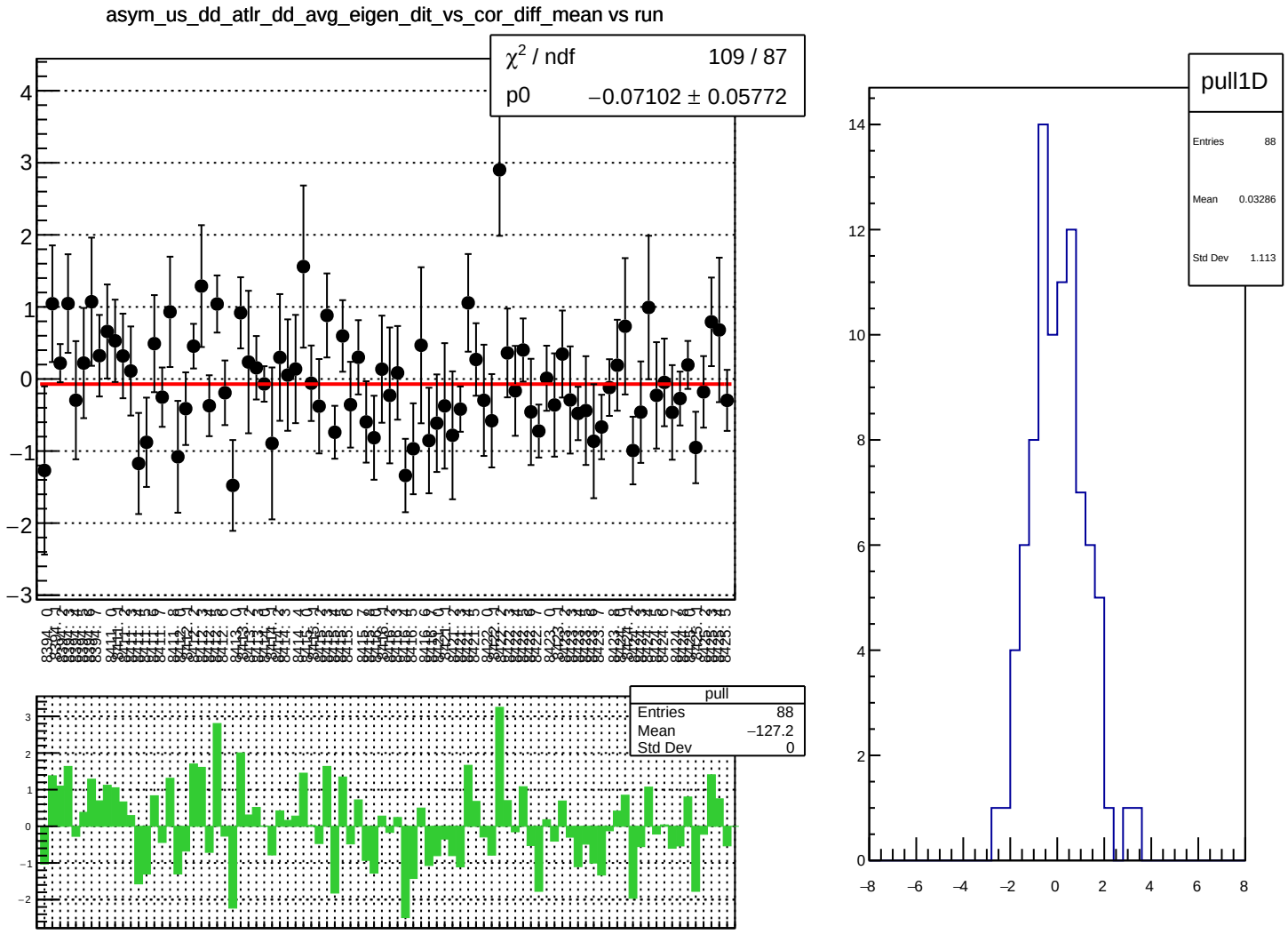

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109 / 87
p0 −0.07103 ± 0.05772
pull
Entries 88
Mean −127.2
Std Dev 0
pull1D
Entries 88
Mean 0.03285
Std Dev 1.113

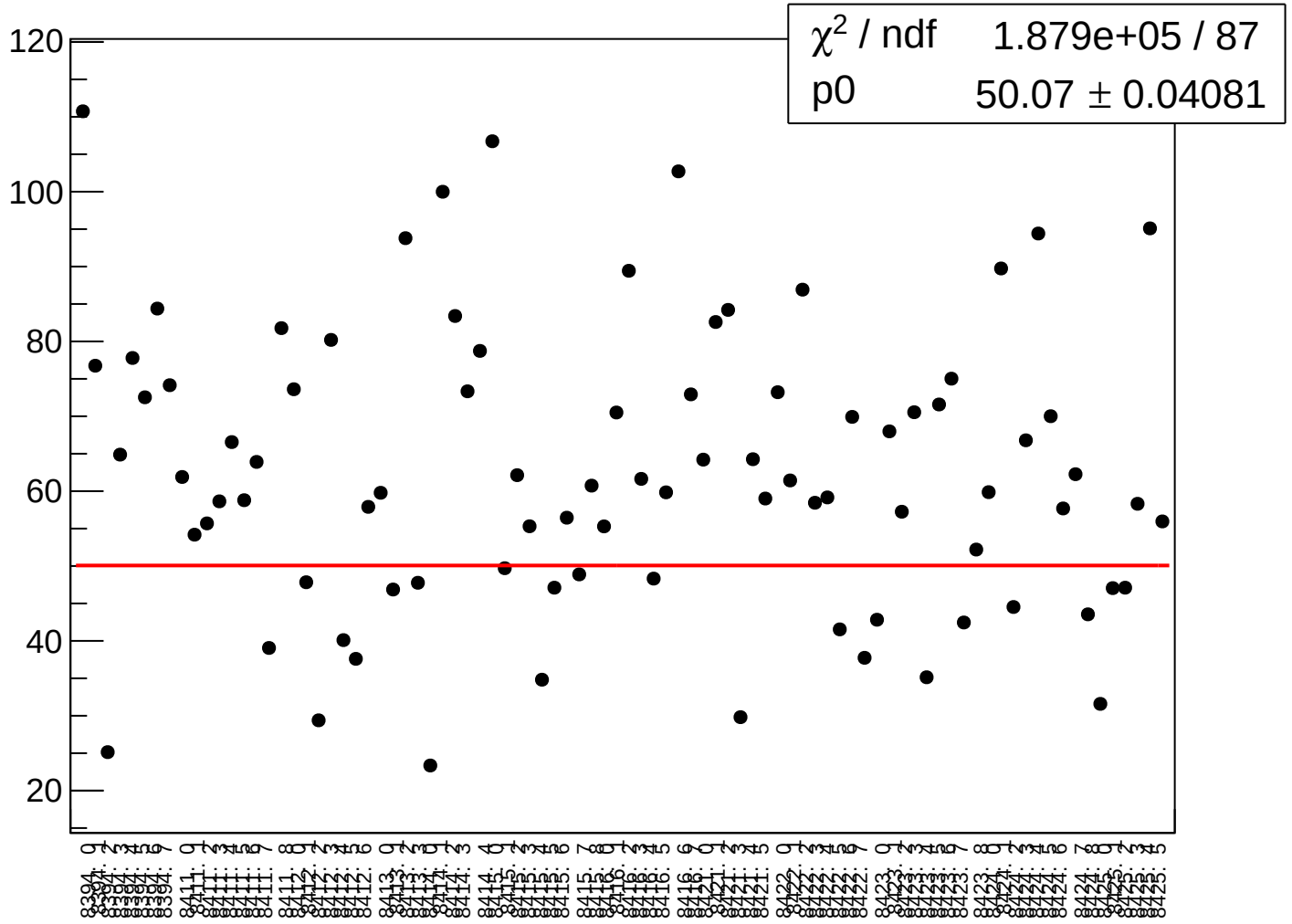

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.879e+05 / 87
p0 50.07 ± 0.04081
120
100
80
60
40
20

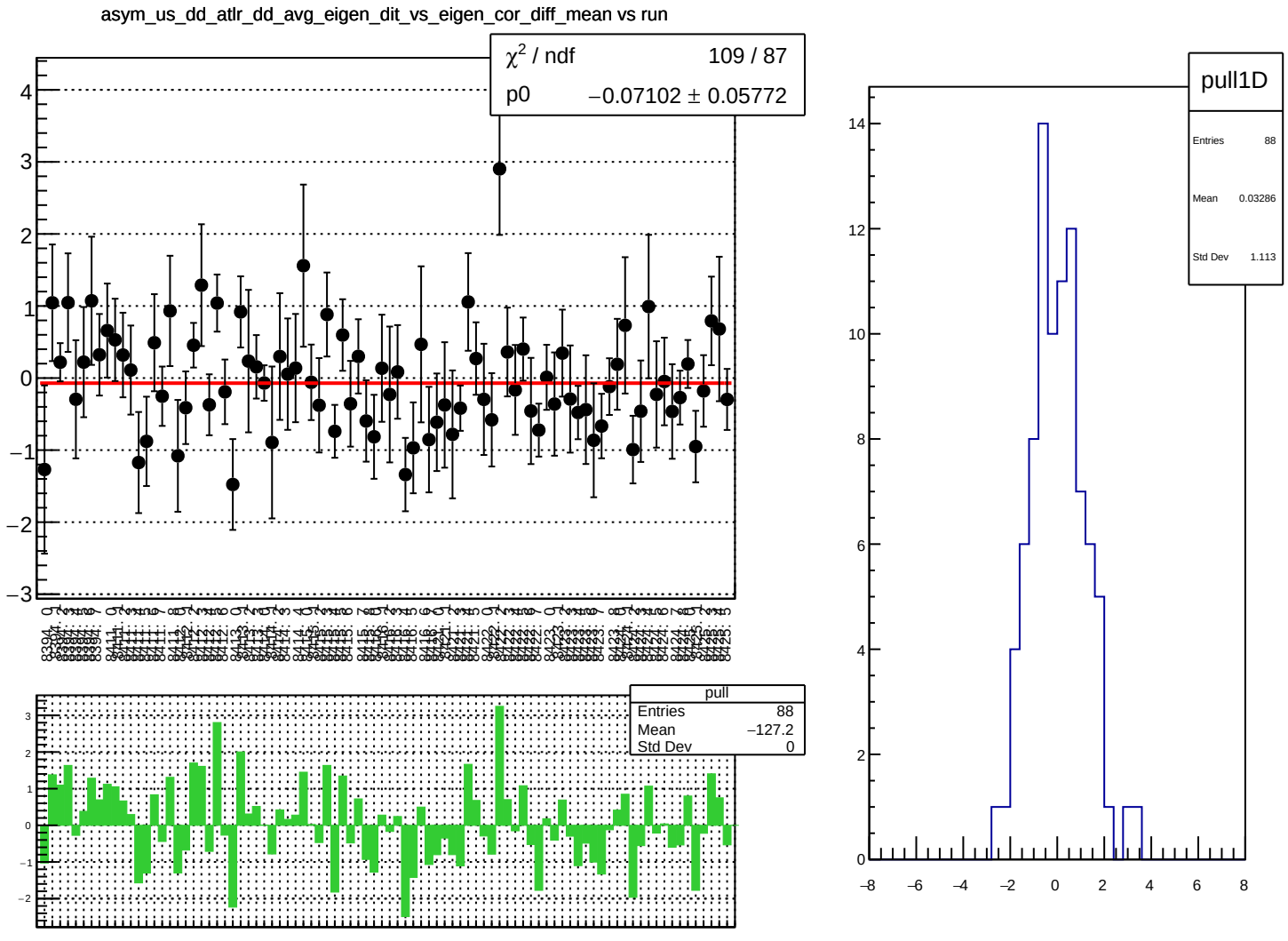

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 68.54 / 87
p0 3.907e−05 ± 7.124e−06
0.4
0.2
0
−0.2
−0.4
pull
Entries 88
Mean 12.03
Std Dev 0
3
2
1
0
−1
−2

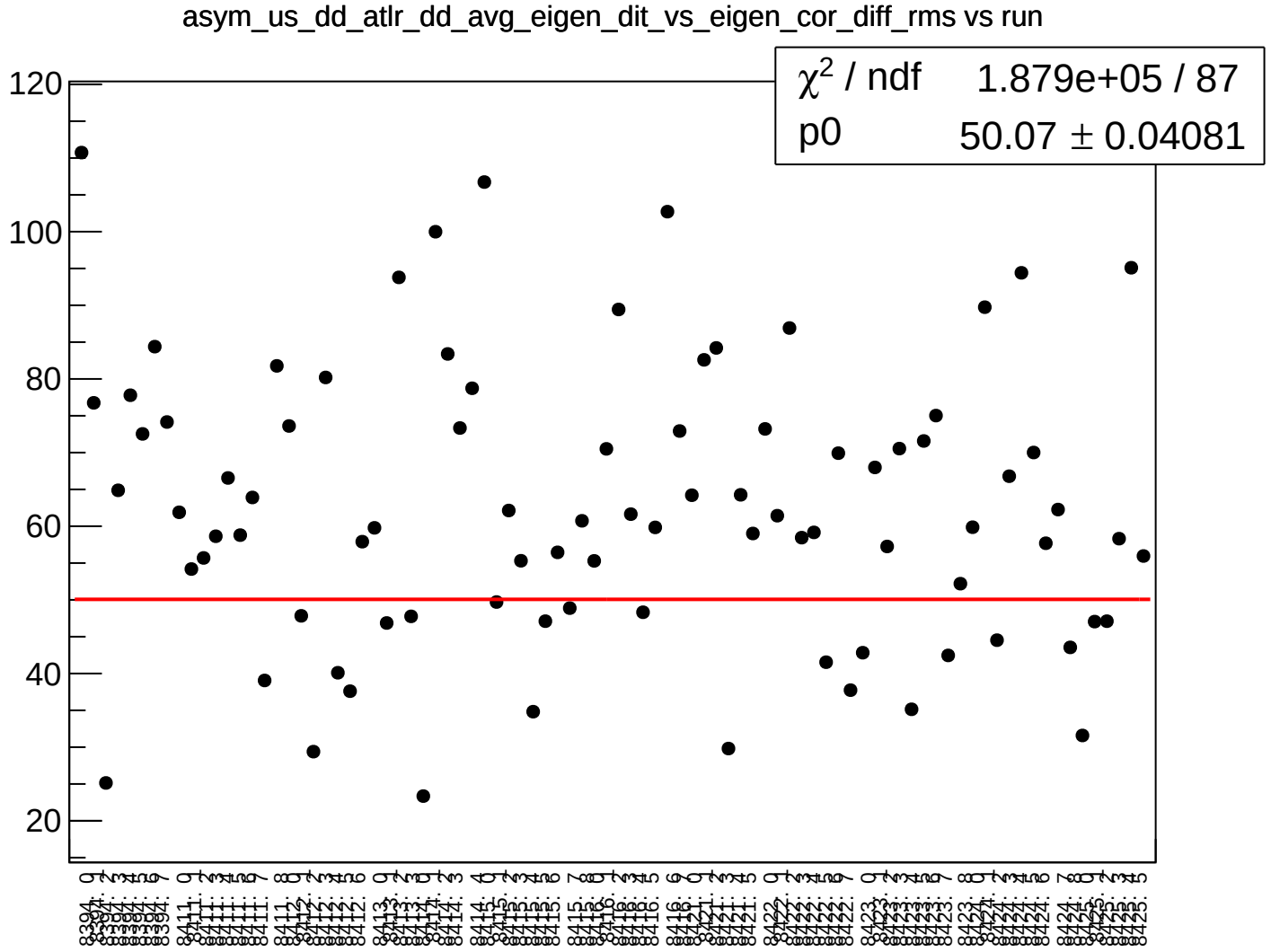

pull1D
Entries 88
Mean −0.06806
Std Dev 0.8799
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

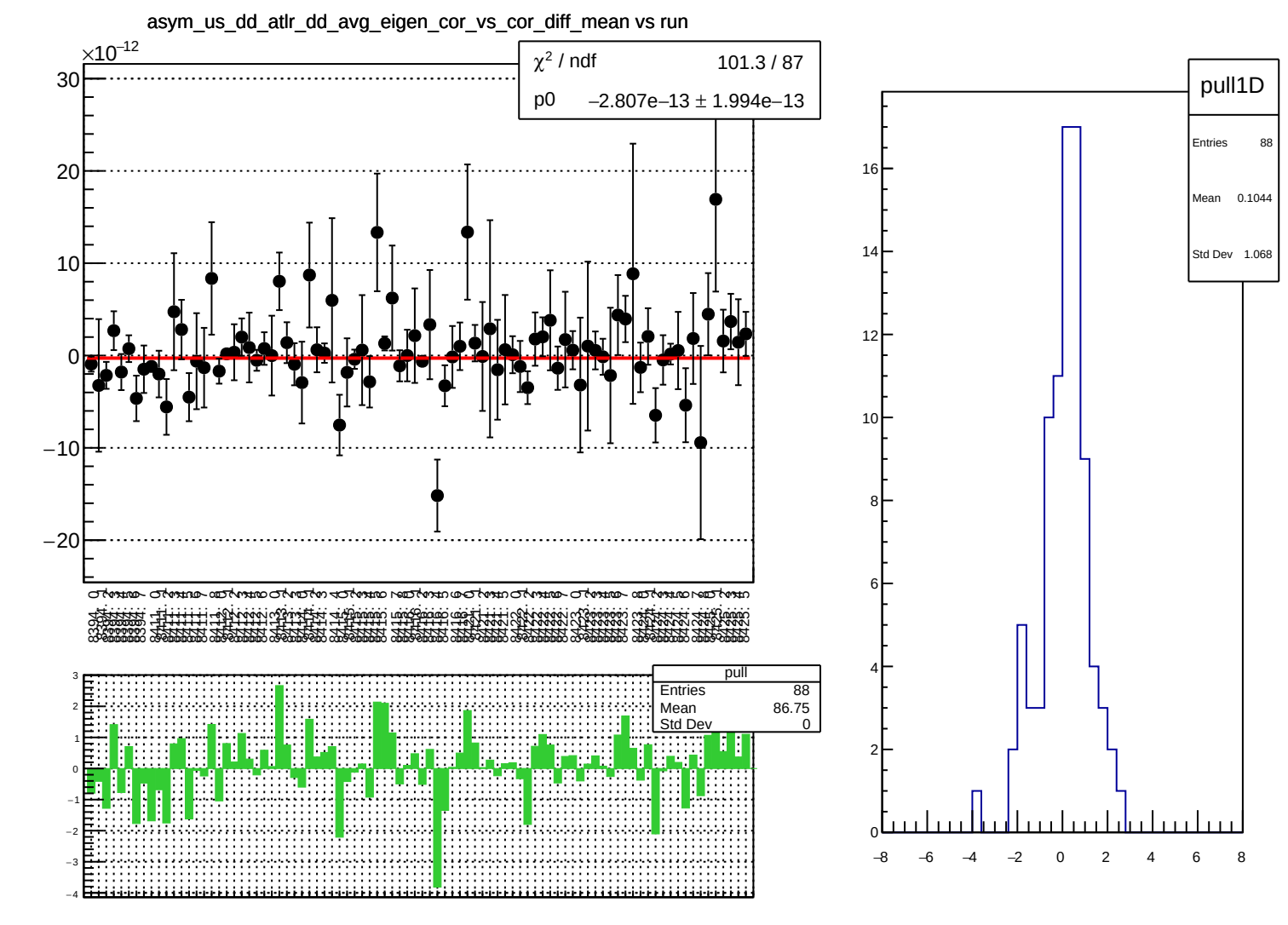

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.138e+05 / 87
p0 0.005916 ± 5.037e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

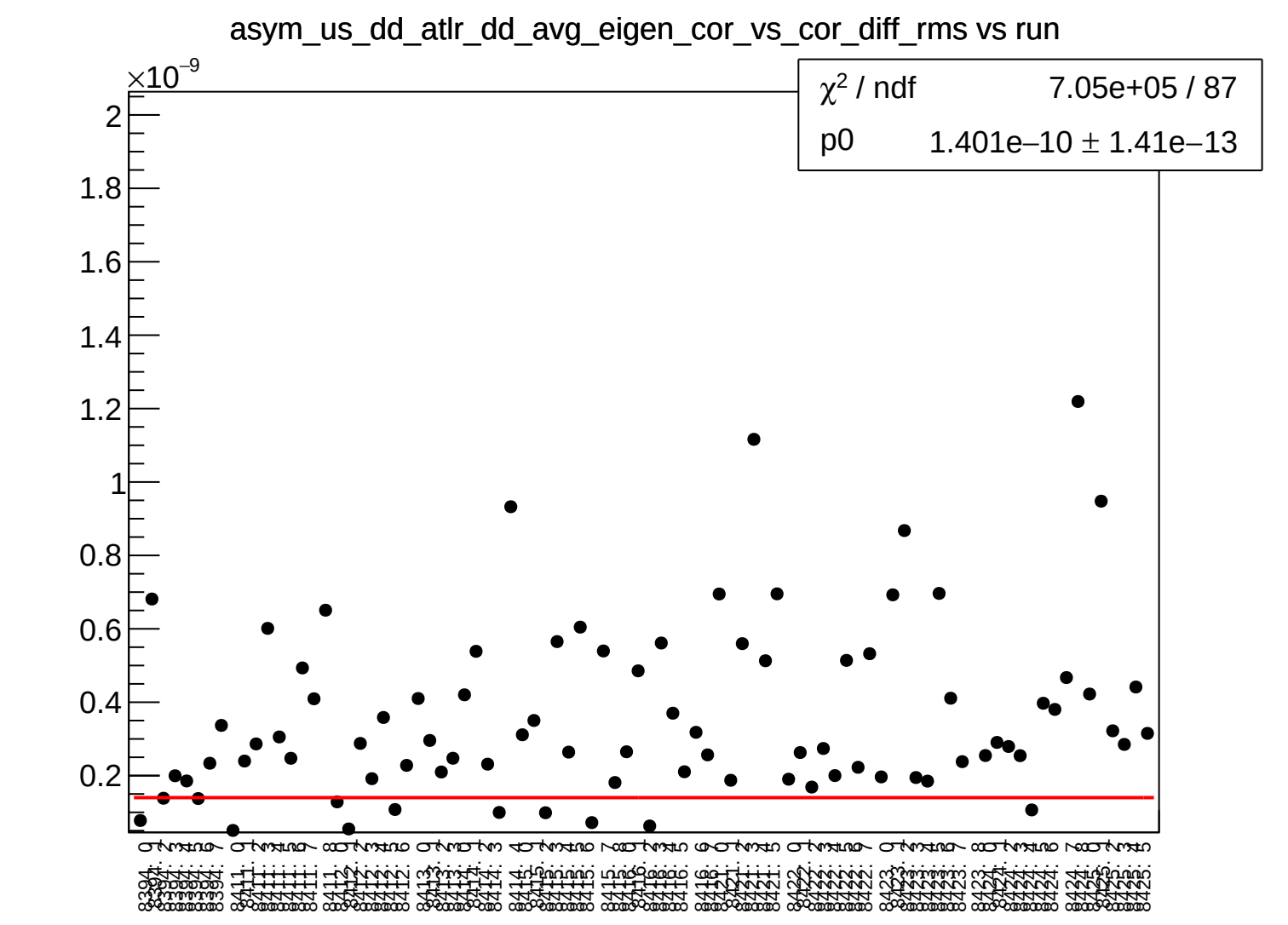

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109 / 87
p0 −0.07102 ± 0.05772
pull
Entries 88
Mean −127.2
Std Dev 0
pull1D
Entries 88
Mean 0.03286
Std Dev 1.113

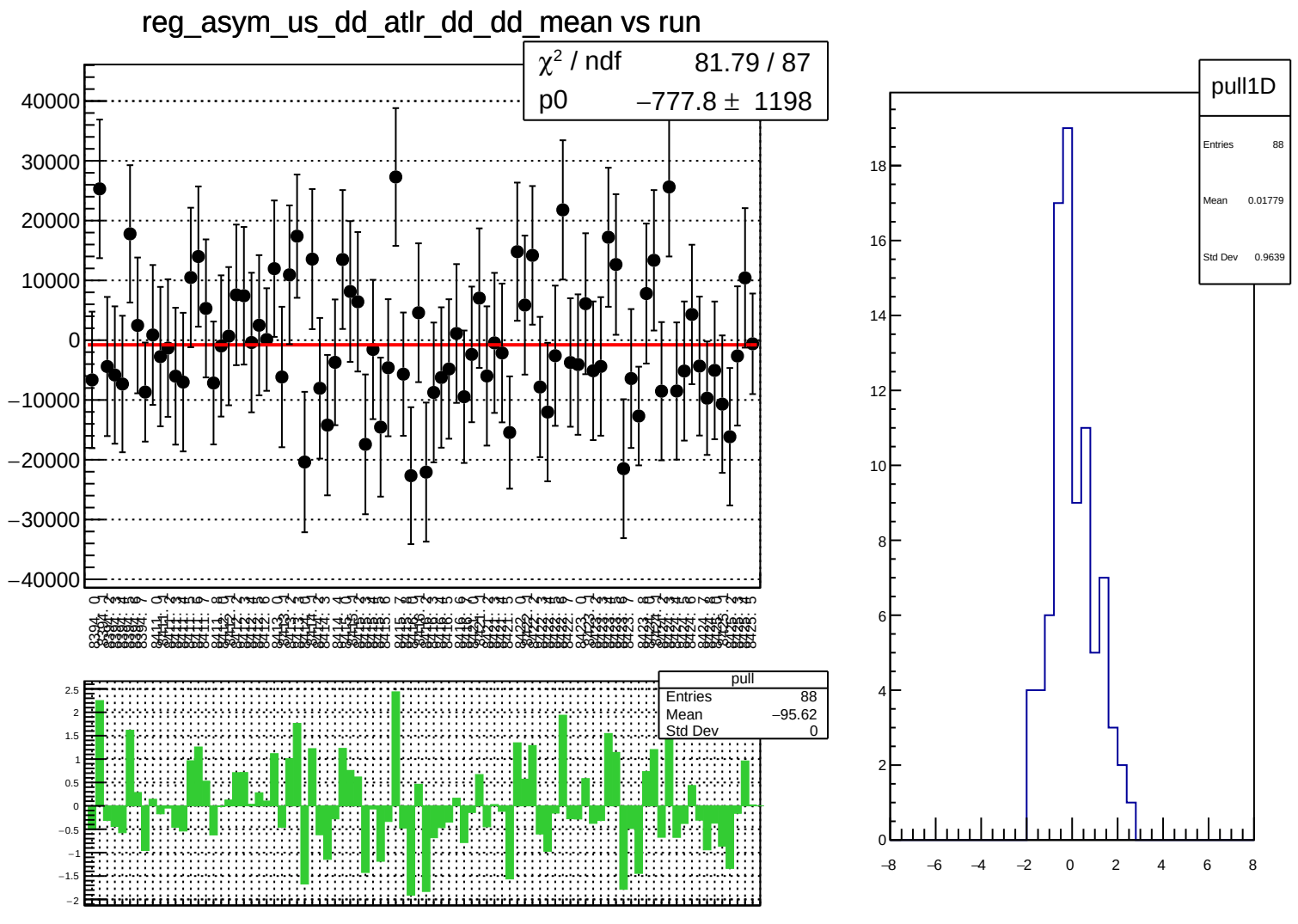

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.879e+05 / 87
p0 50.07 ± 0.04081
120
100
80
60
40
20

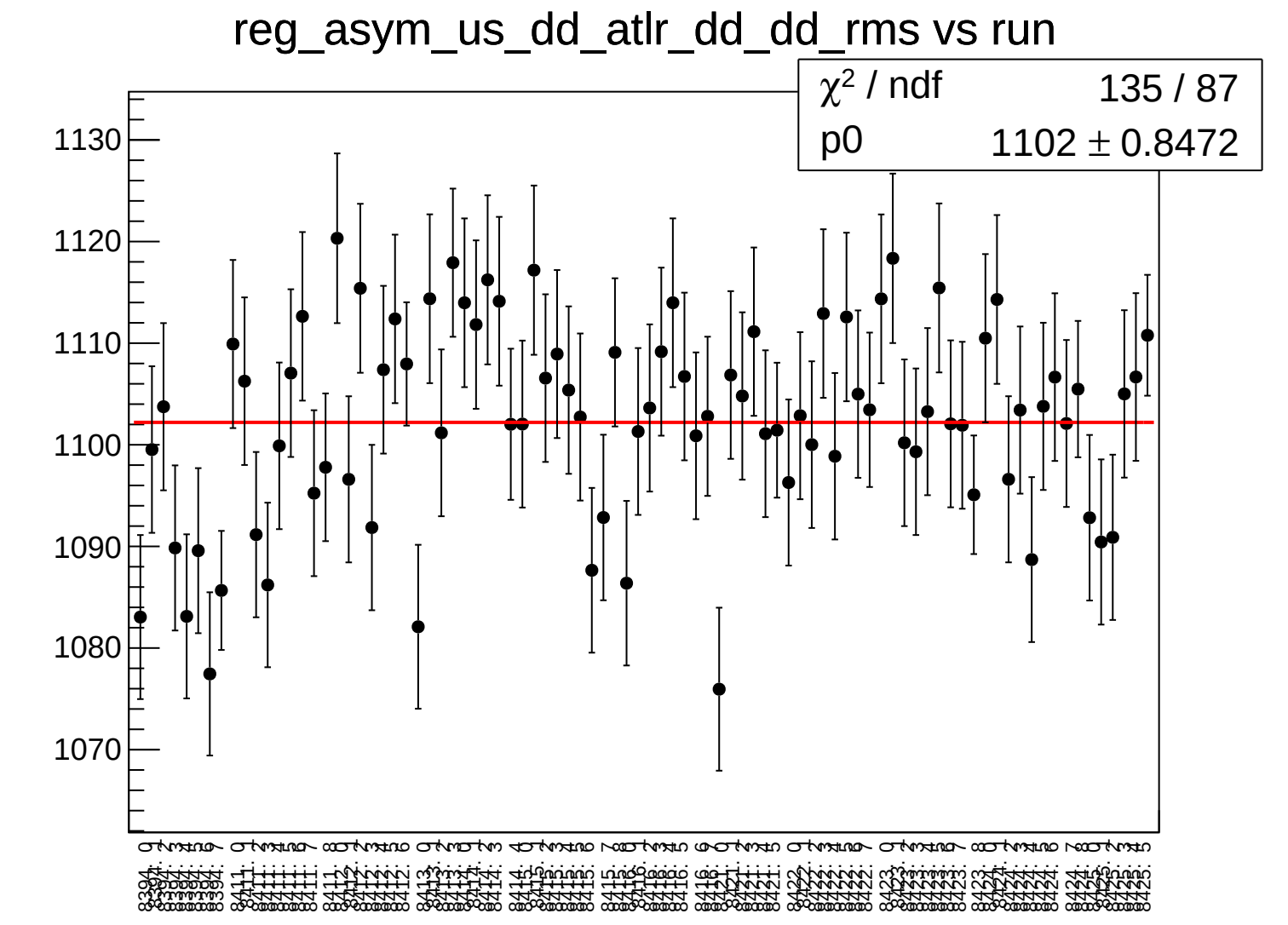

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109 / 87
p0 −0.07102 ± 0.05772
pull
Entries 88
Mean −127.2
Std Dev 0
pull1D
Entries 88
Mean 0.03286
Std Dev 1.113

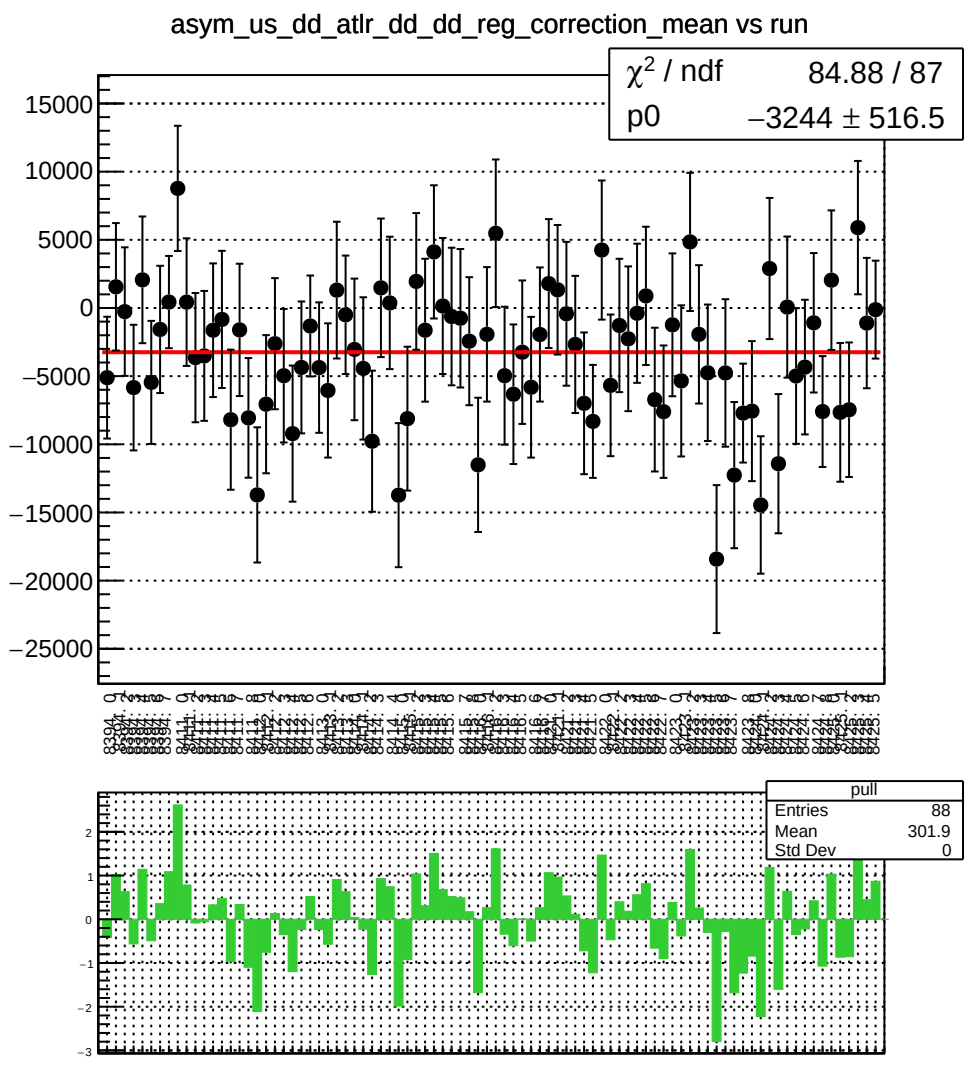

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.879e+05 / 87
p0 50.07 ± 0.04081
120
100
80
60
40
20

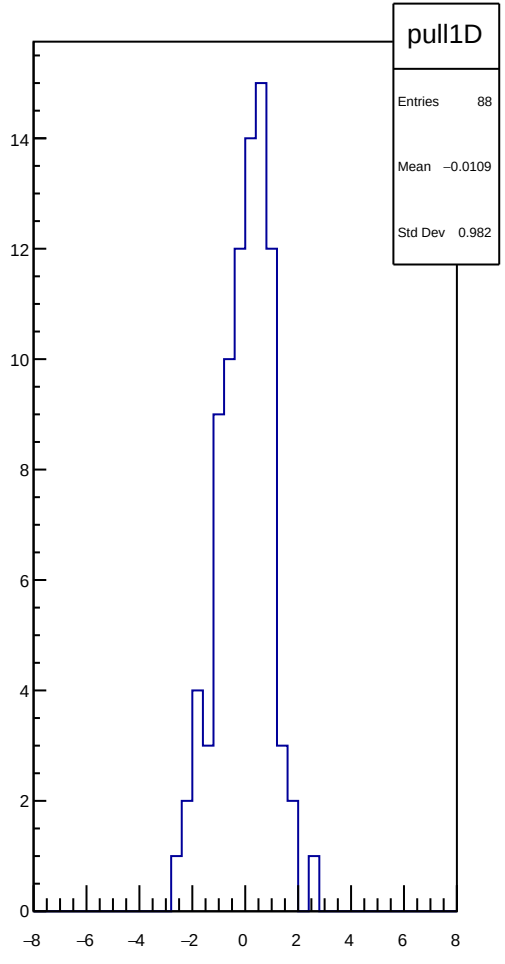

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.3 / 87
p0 −2.807e−13 ± 1.994e−13
pull
Entries 88
Mean 86.75
Std Dev 0
pull1D
Entries 88
Mean 0.1044
Std Dev 1.068

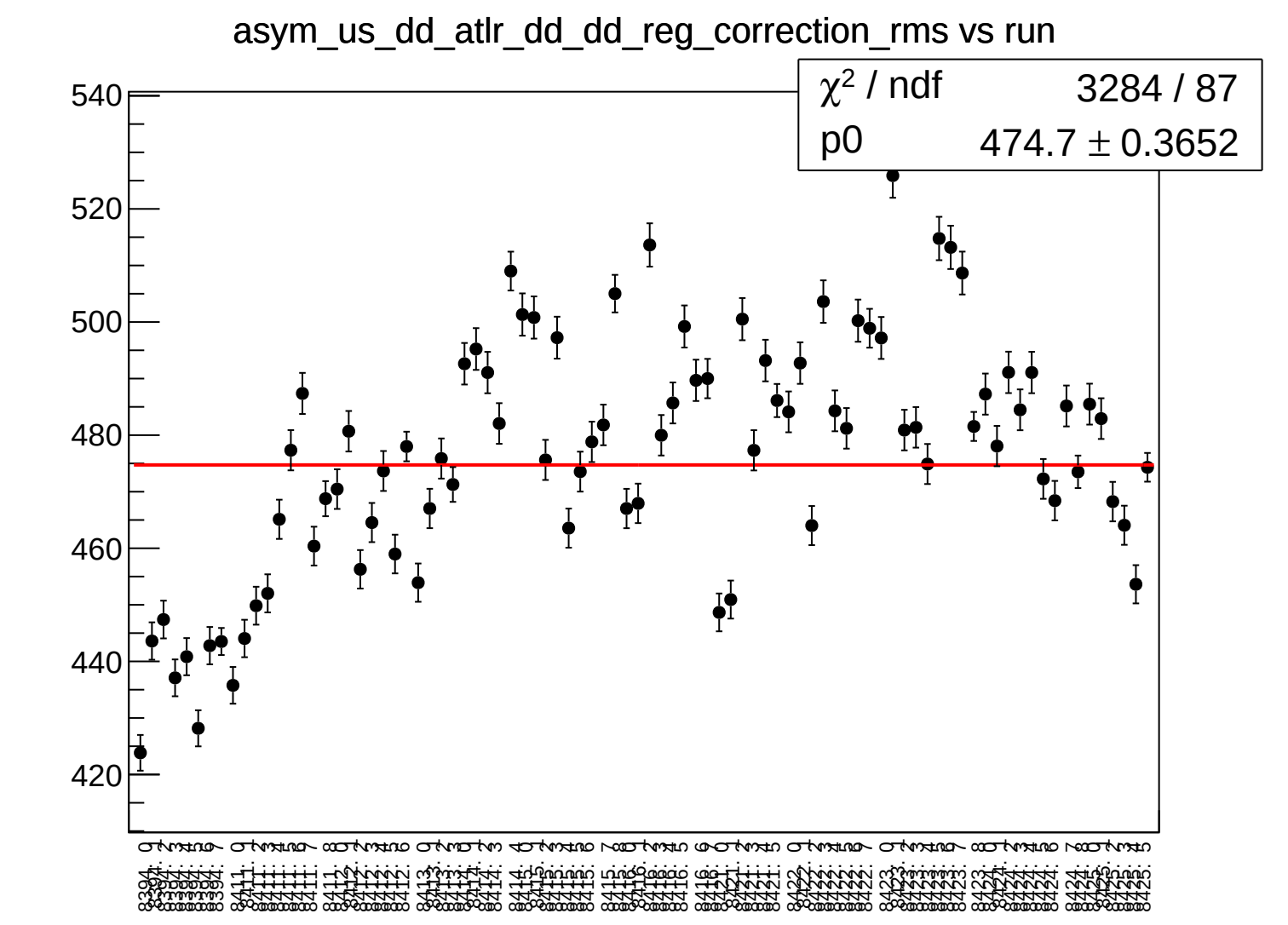

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.05e+05 / 87
p0 1.401e−10 ± 1.41e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

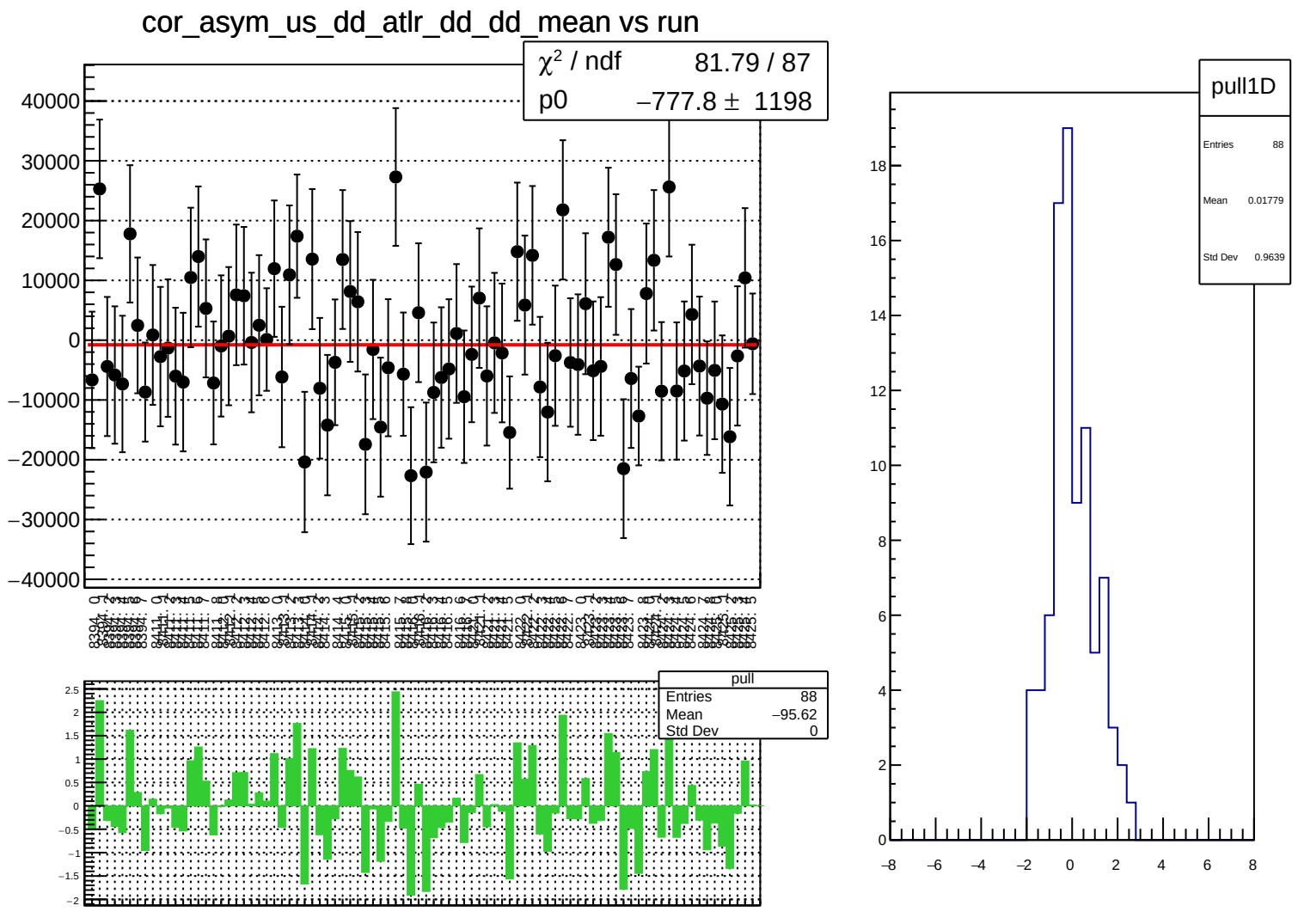

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 81.79 / 87
p0 −777.8 ± 1198
pull
Entries 88
Mean −95.62
Std Dev 0
pull1D
Entries 88
Mean 0.01779
Std Dev 0.9639

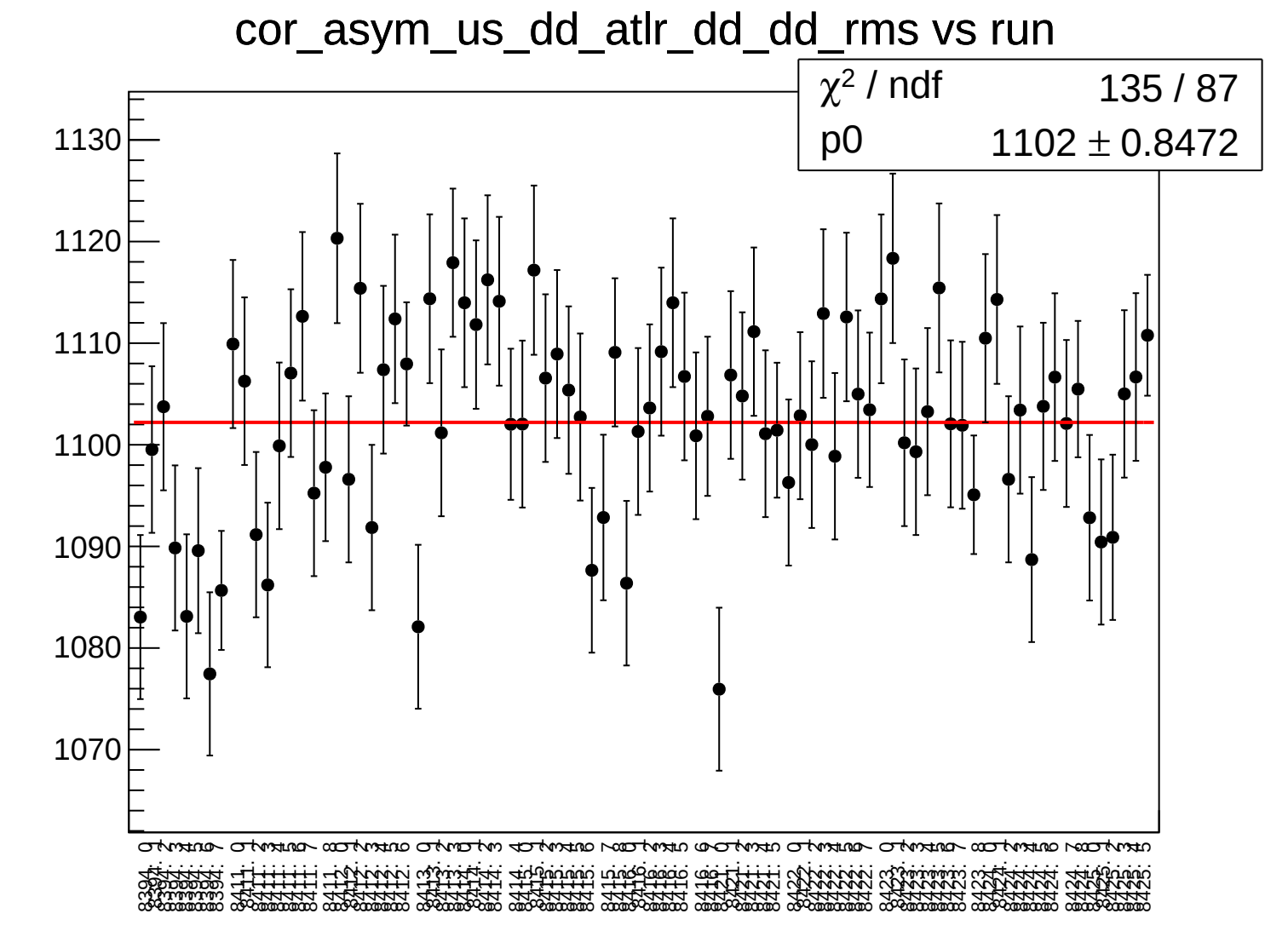

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 135 / 87
p0 1102 ± 0.8472
1130
1120
1110
1100
1090
1080
1070

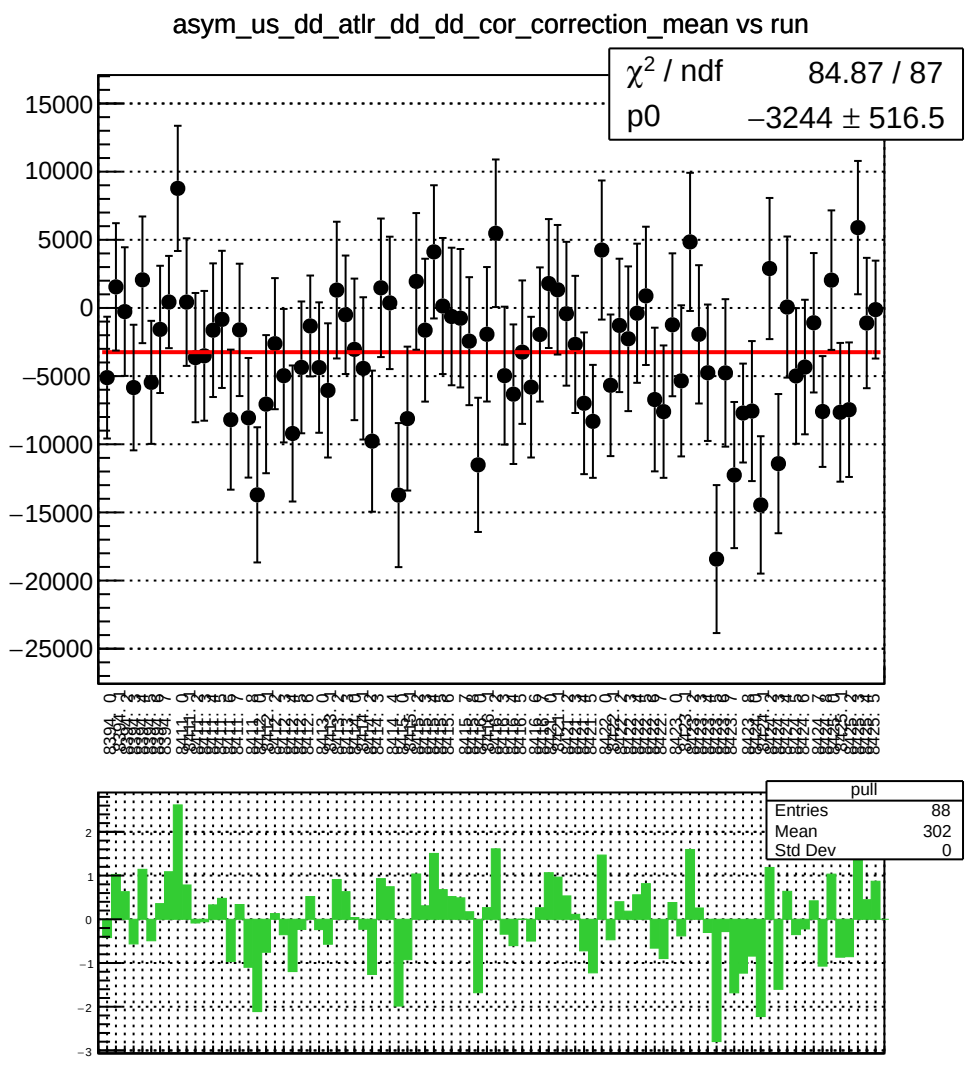

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 84.88 / 87
p0 −3244 ± 516.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 88
Mean 301.9
Std Dev 0
2
1
0
−1
−2
−3

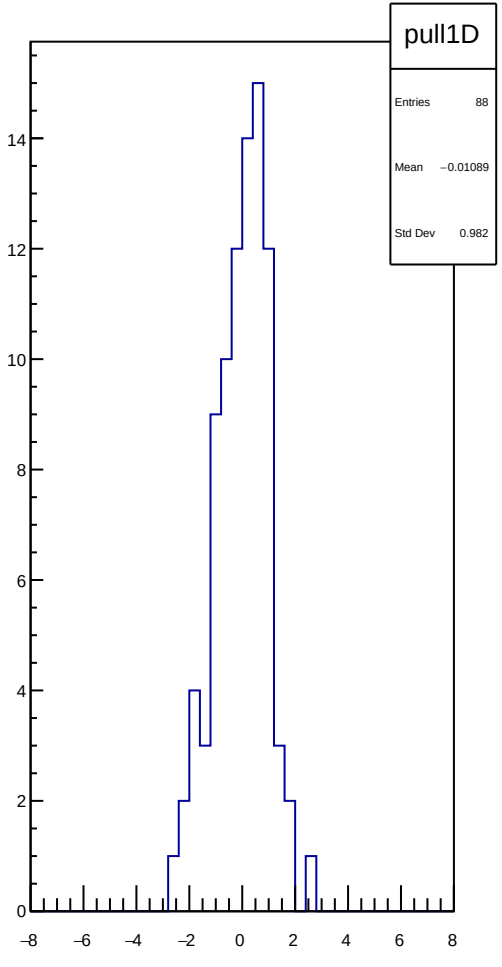

pull1D
Entries 88
Mean −0.0109
Std Dev 0.982
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

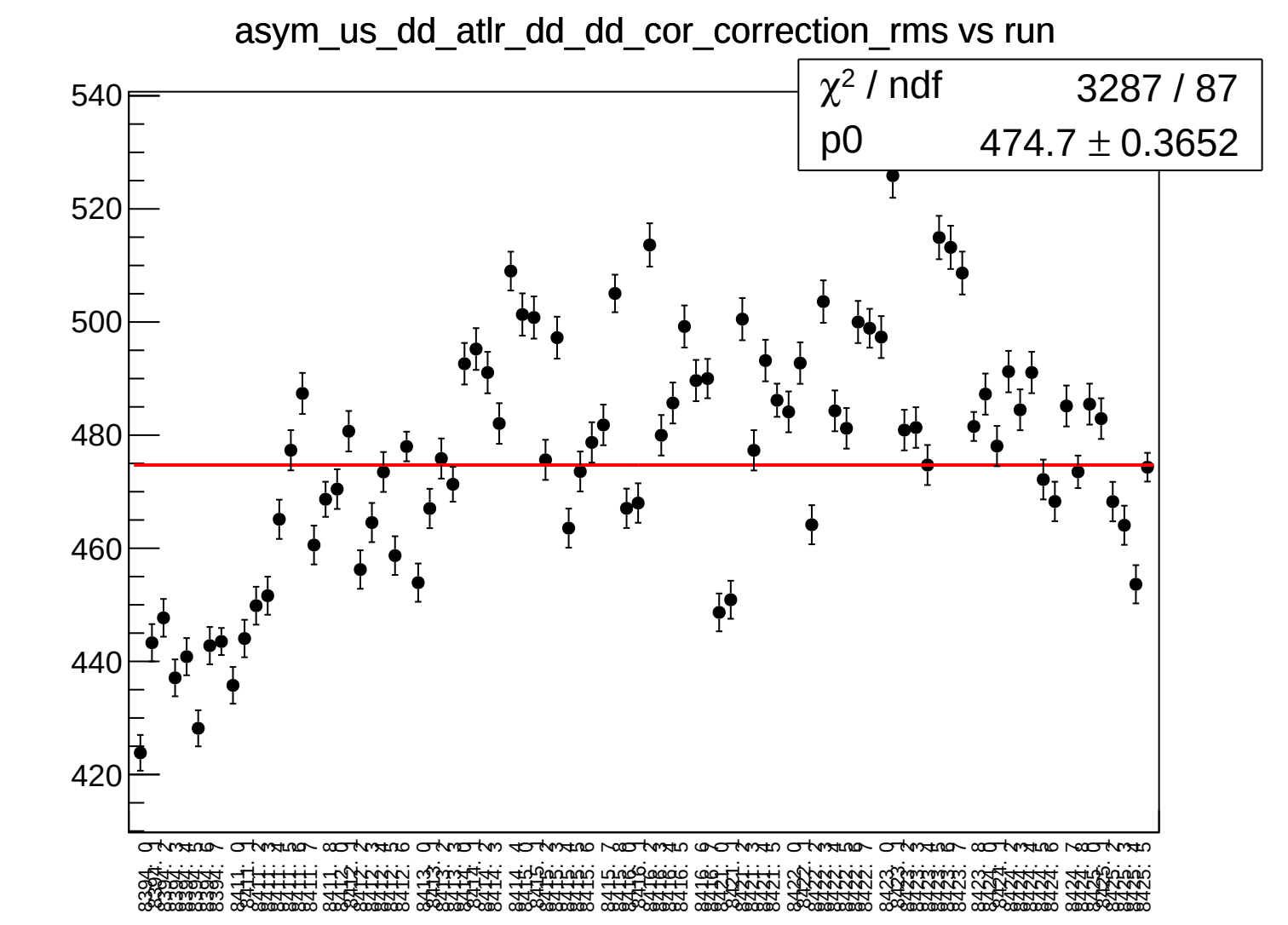

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 3284 / 87
p0 474.7 ± 0.3652
540
520
500
480
460
440
420

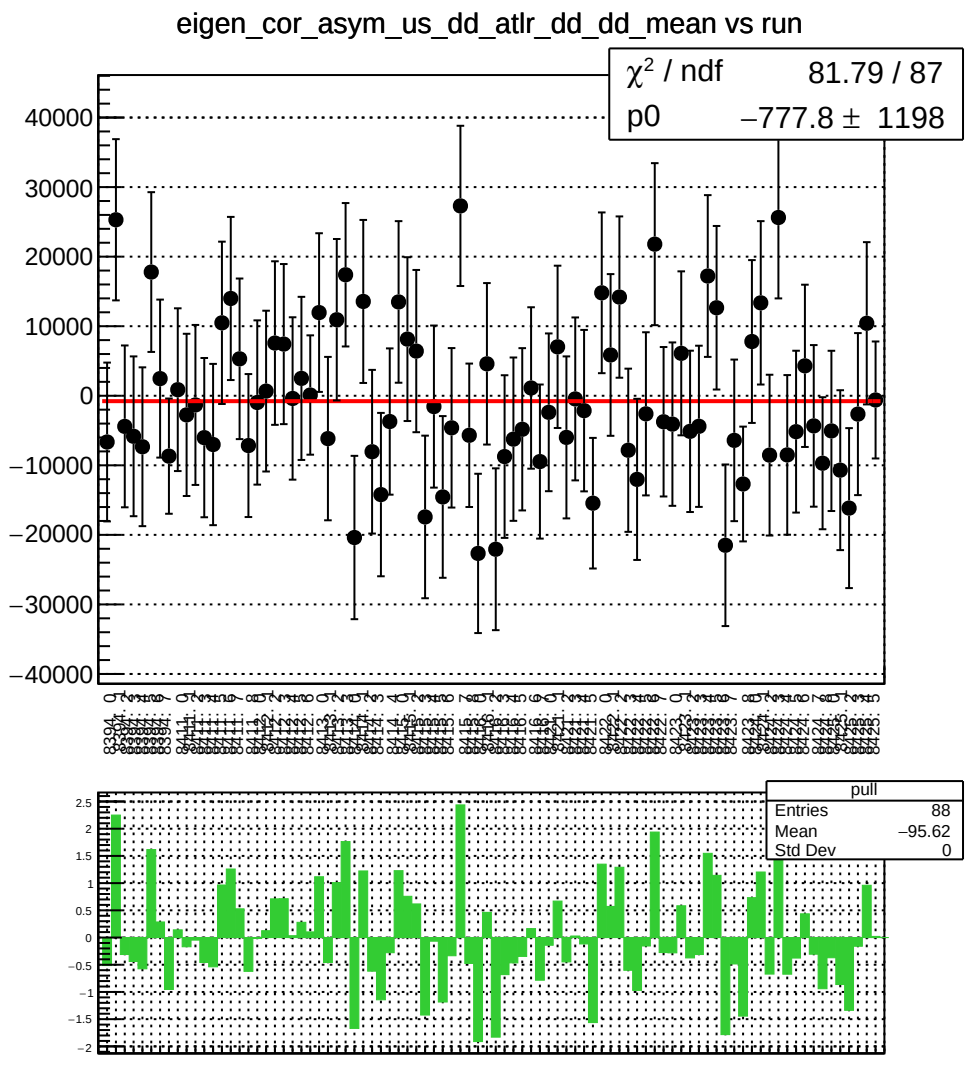

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 81.79 / 87
p0 −777.8 ± 1198
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −95.62
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean 0.01779
Std Dev 0.9639
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

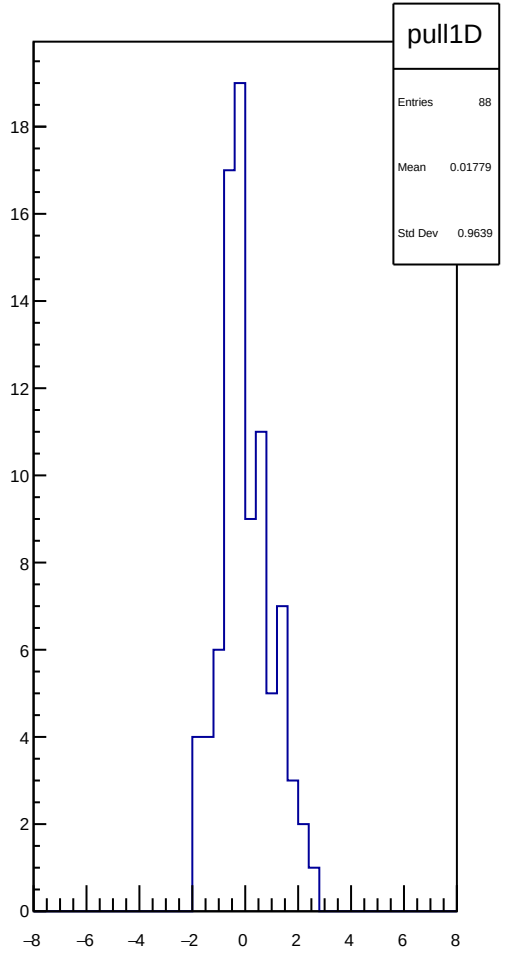

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 135 / 87
p0 1102 ± 0.8472
1130
1120
1110
1100
1090
1080
1070

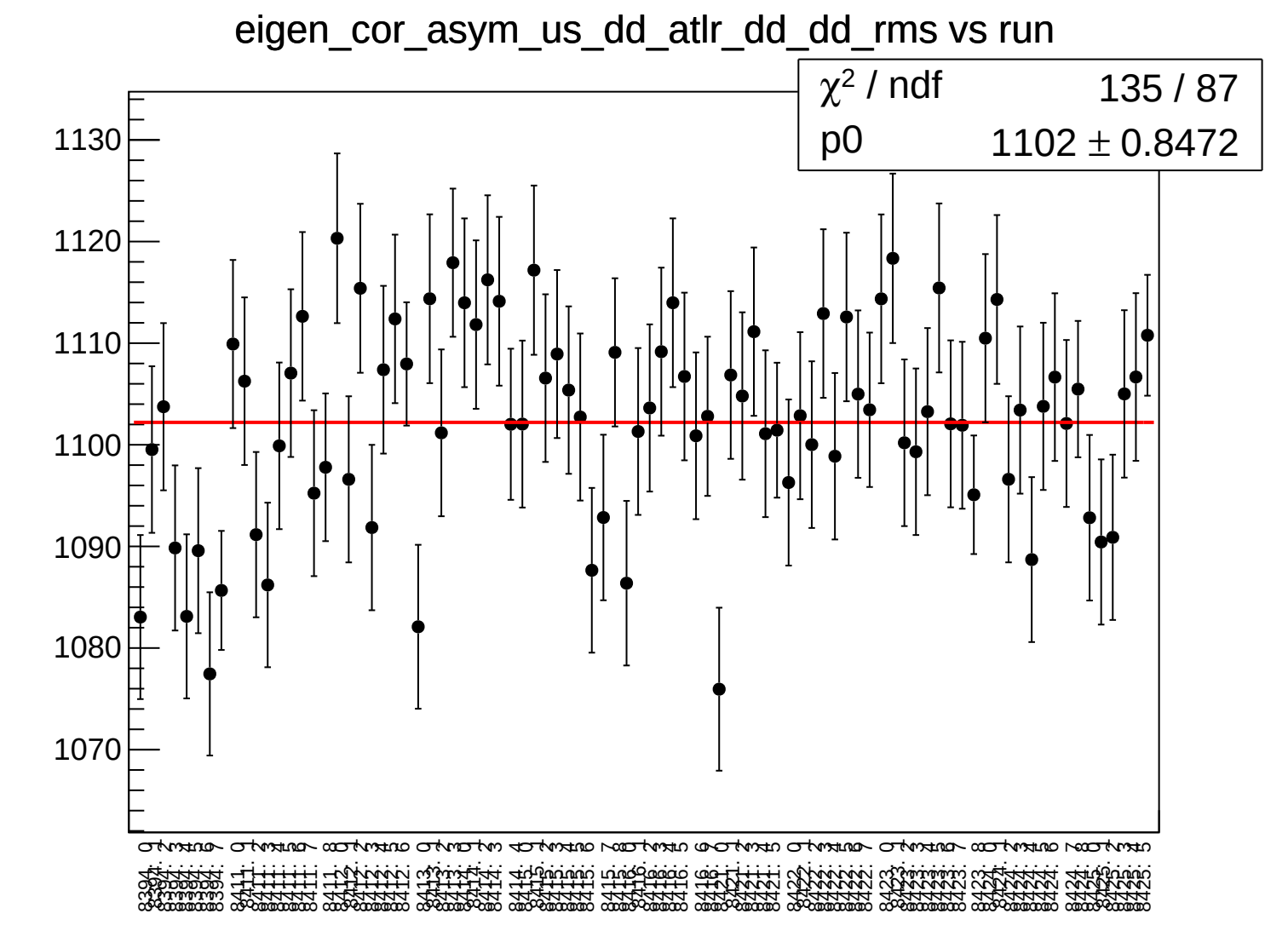

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 84.87 / 87
p0 −3244 ± 516.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 88
Mean 302
Std Dev 0
2
1
0
−1
−2
−3

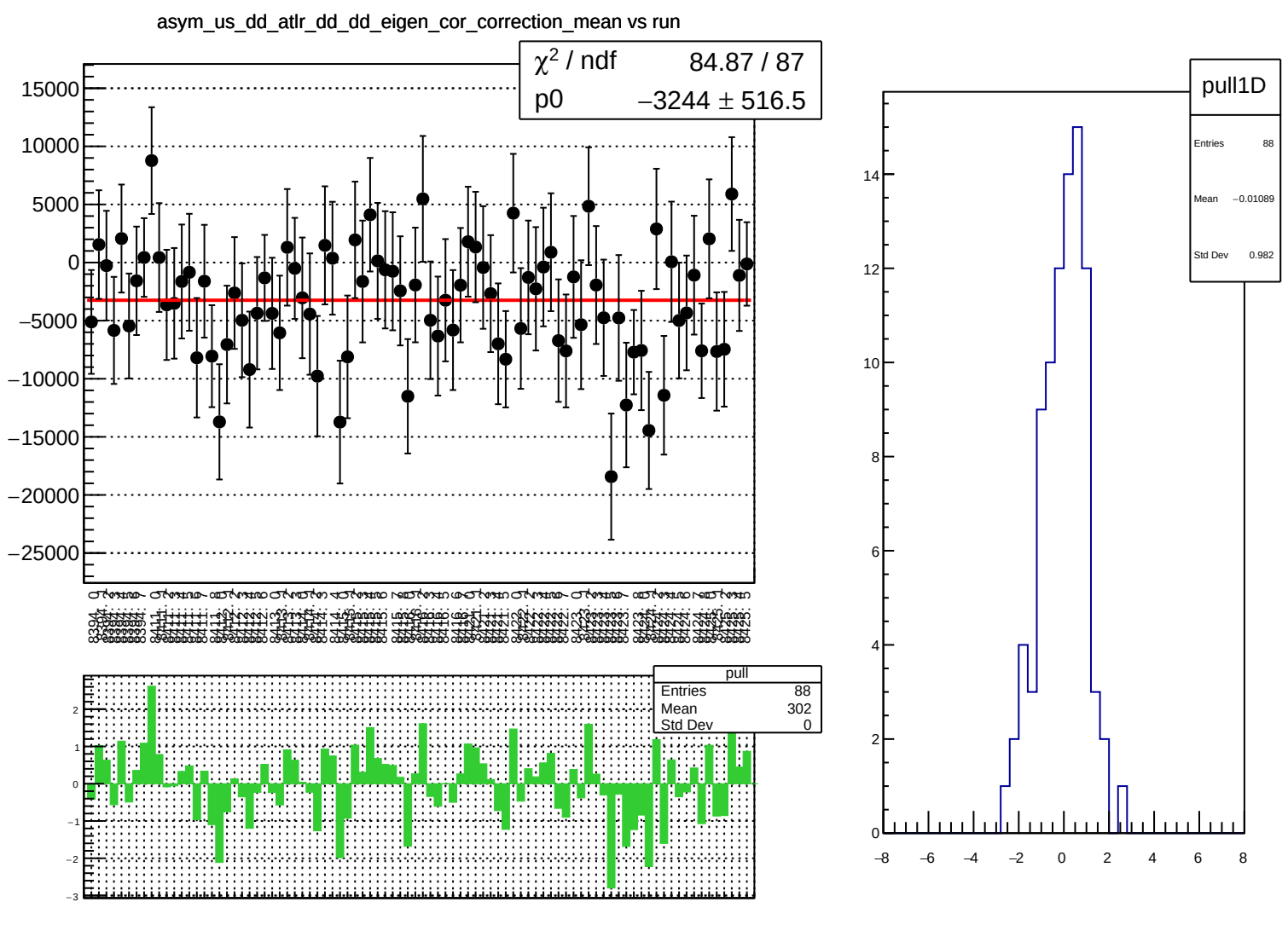

pull1D
Entries 88
Mean −0.01089
Std Dev 0.982
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

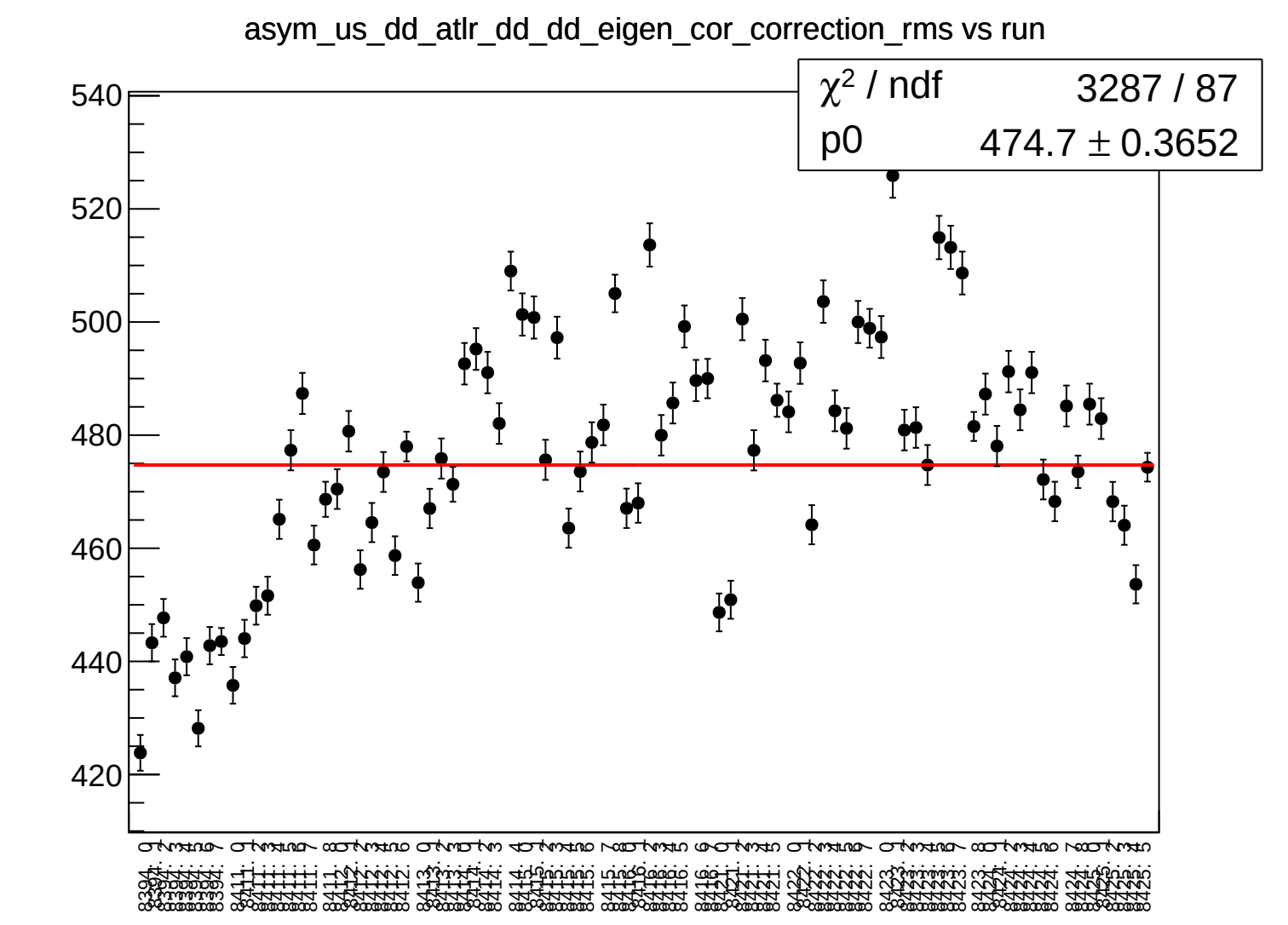

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 3287 / 87
p0 474.7 ± 0.3652
540
520
500
480
460
440
420

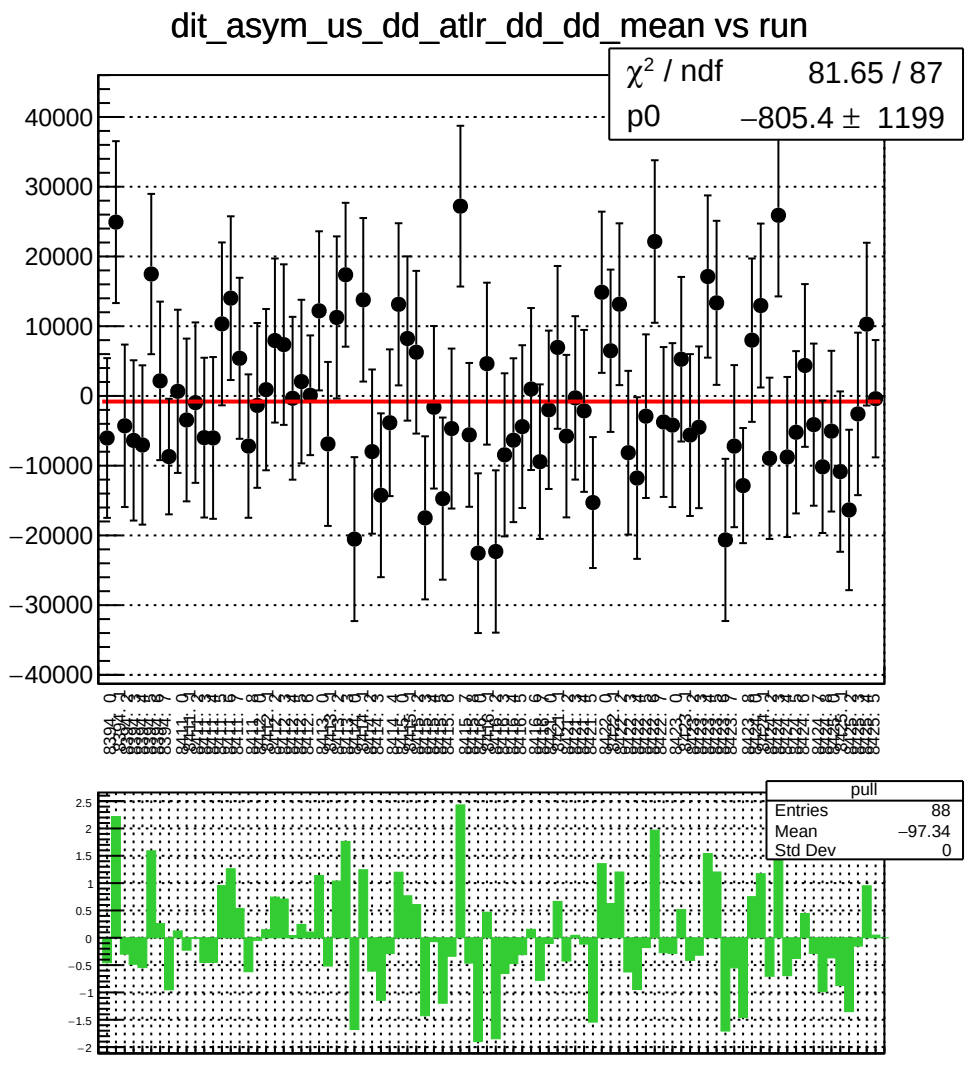

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 81.79 / 87
p0 −777.8 ± 1198
pull
Entries 88
Mean −95.62
Std Dev 0

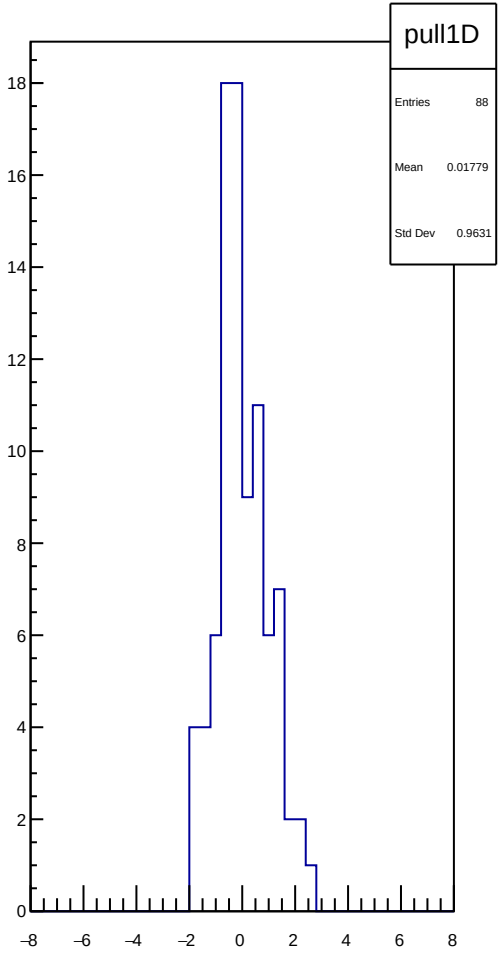

pull1D
Entries 88
Mean 0.01779
Std Dev 0.9639

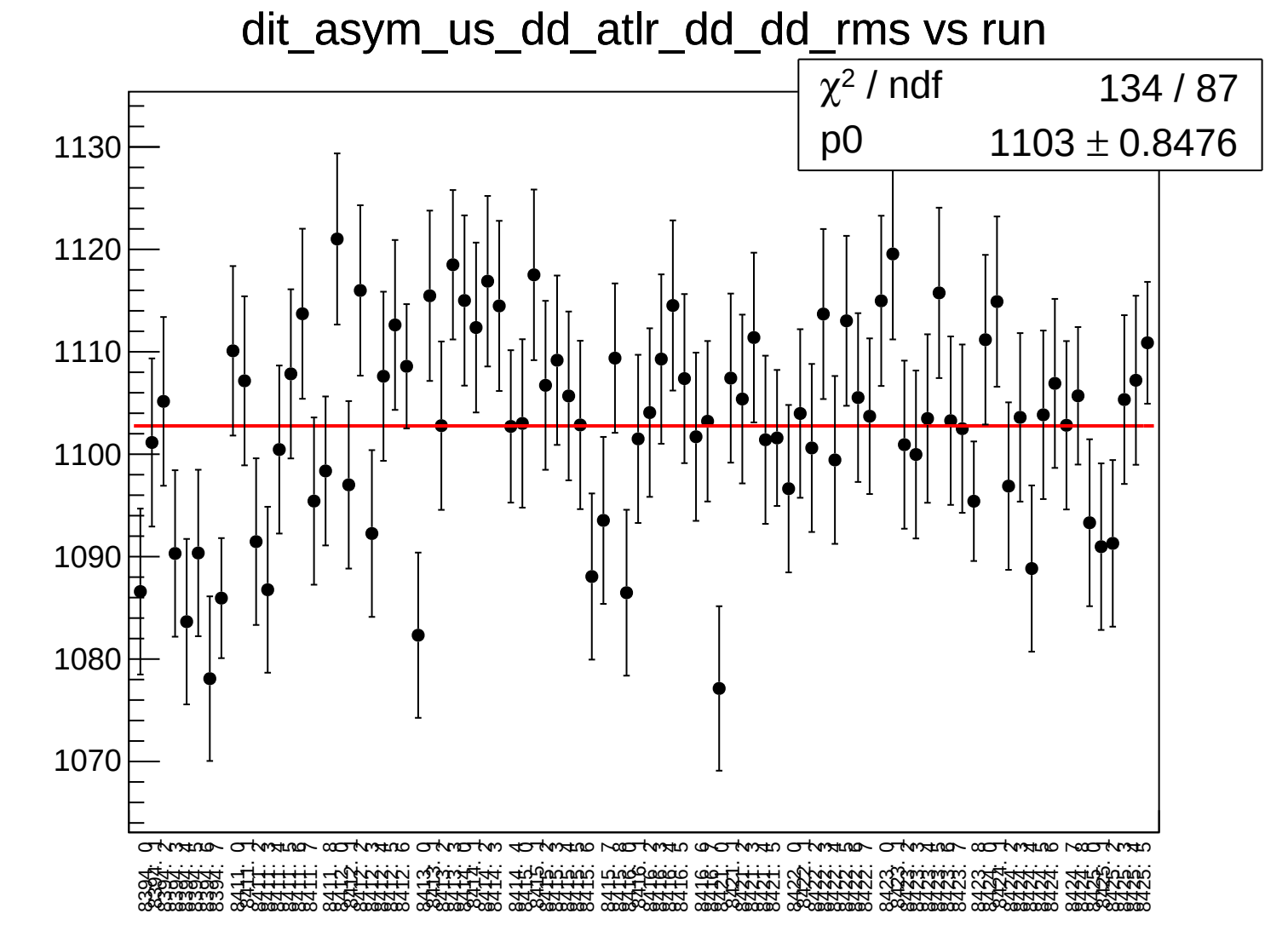

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 135 / 87
p0 1102 ± 0.8472
1130
1120
1110
1100
1090
1080
1070

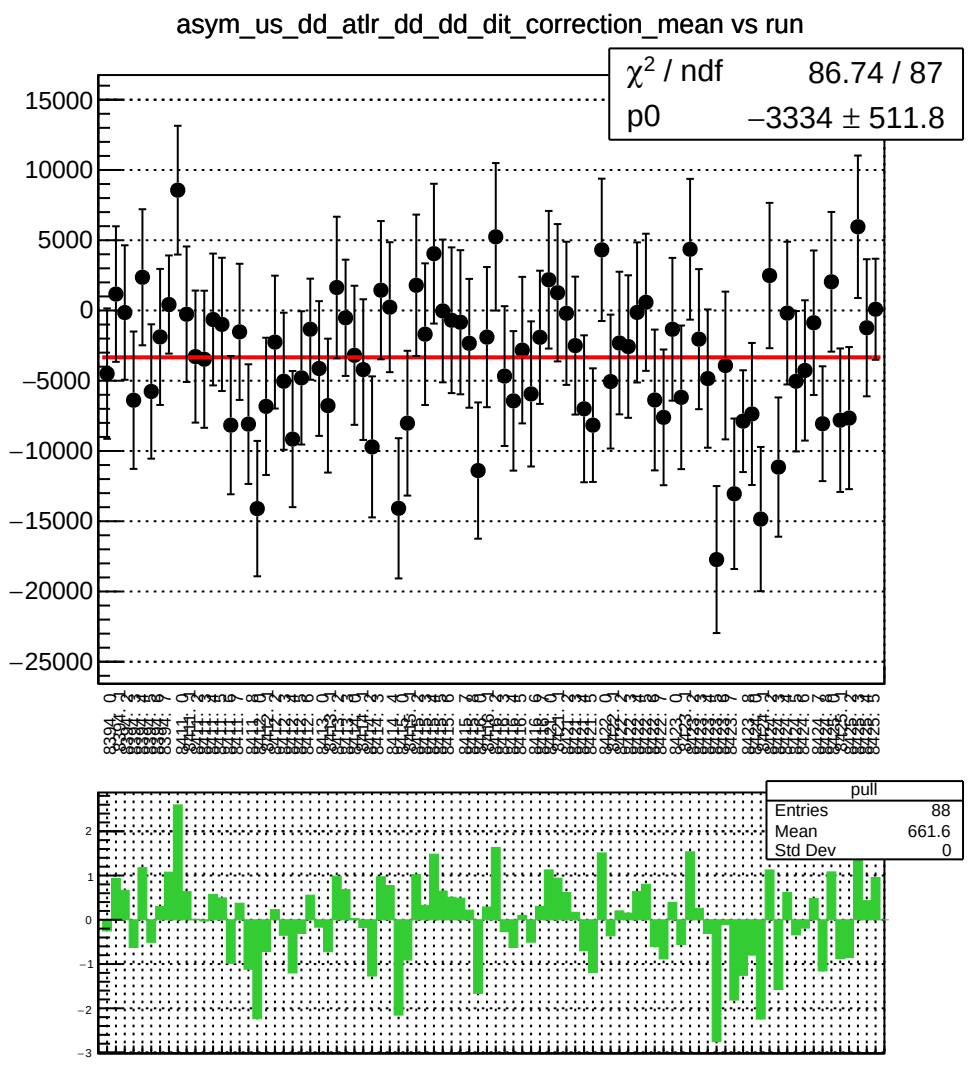

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 84.87 / 87
p0 −3244 ± 516.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 88
Mean 302
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.01089
Std Dev 0.982
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

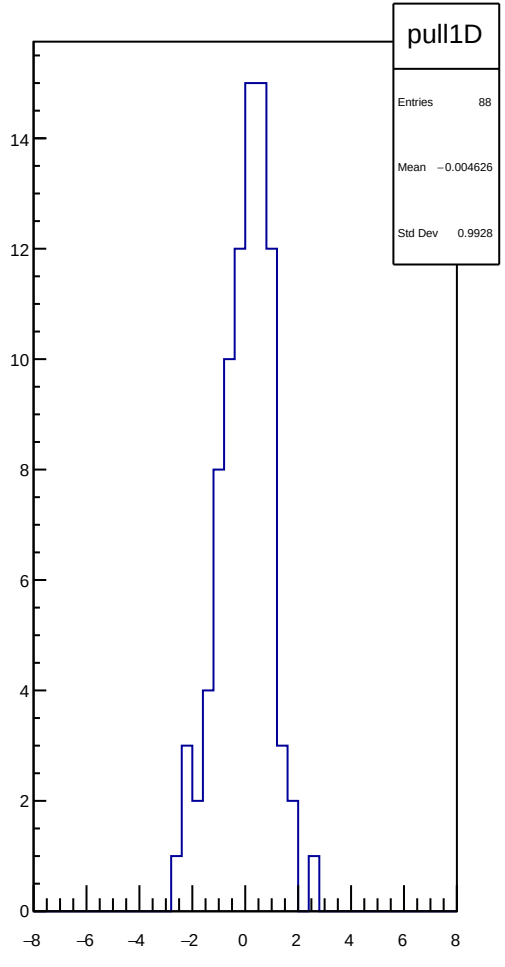

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 3287 / 87
p0 474.7 ± 0.3652
540
520
500
480
460
440
420

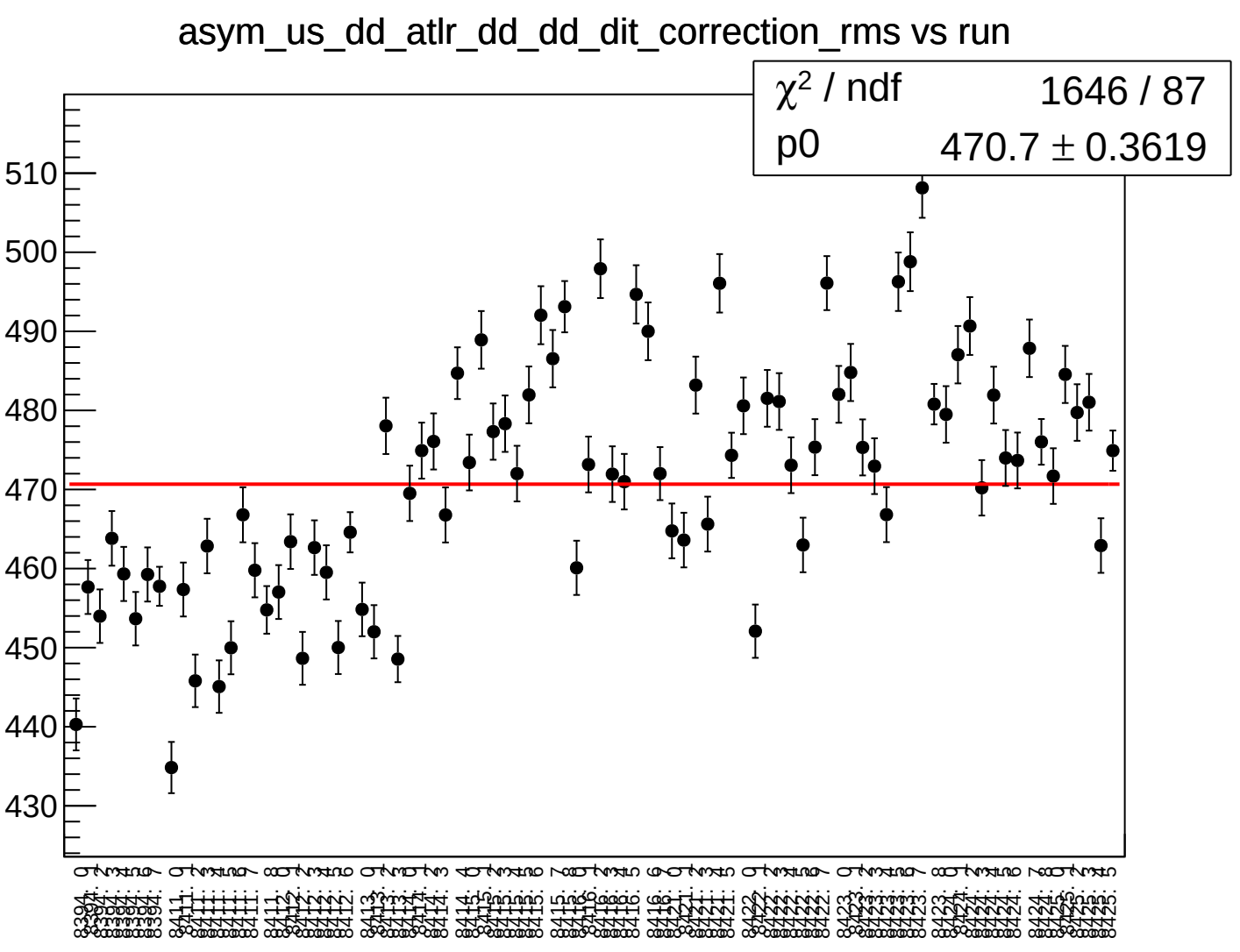

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 81.65 / 87
p0 −805.4 ± 1199
pull
Entries 88
Mean −97.34
Std Dev 0

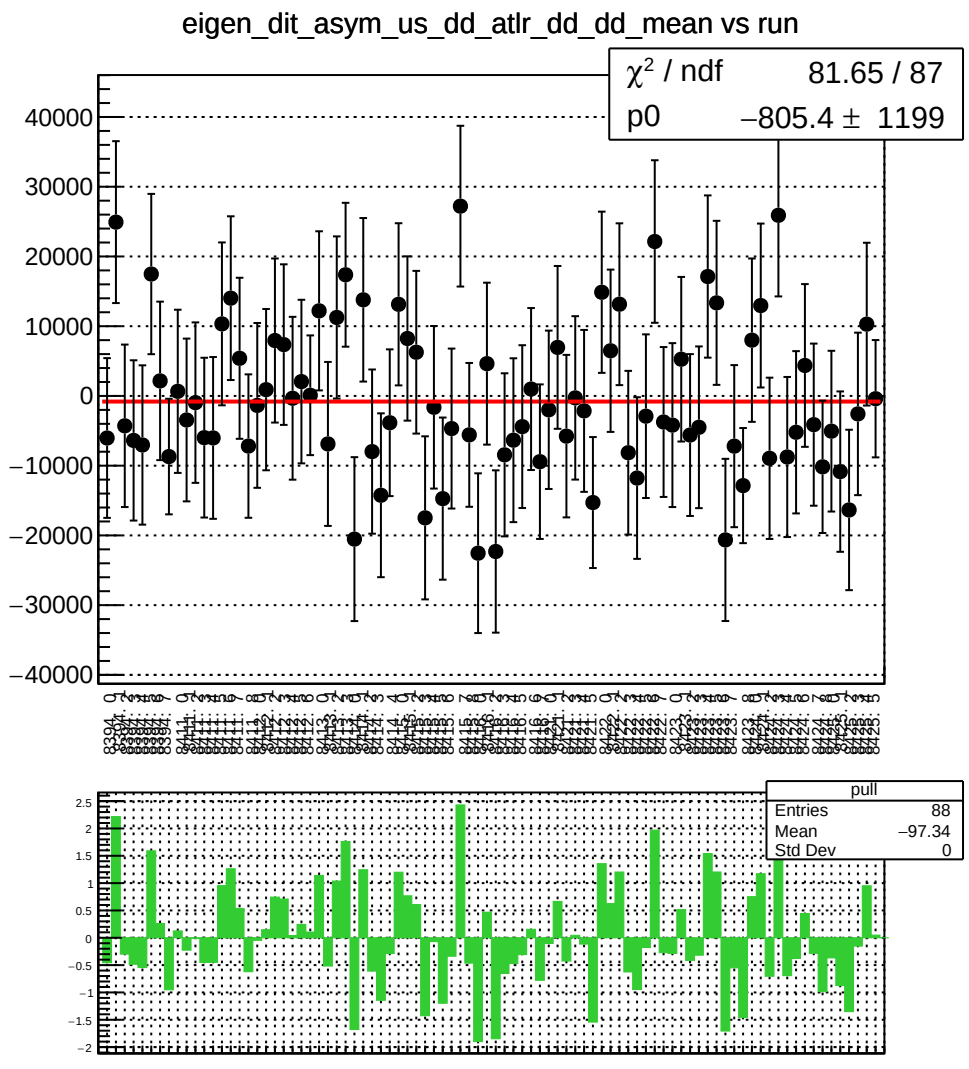

pull1D
Entries 88
Mean 0.01779
Std Dev 0.9631

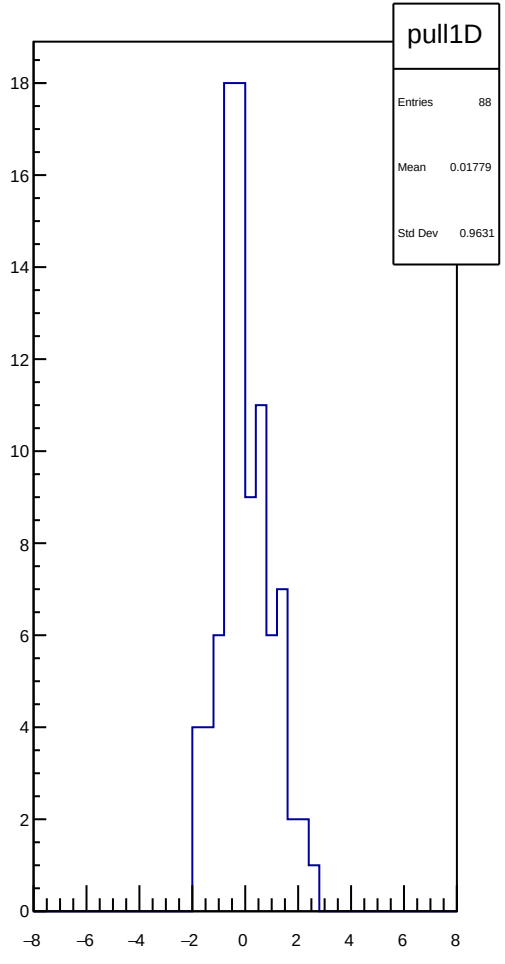

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 134 / 87
p0 1103 ± 0.8476
1130
1120
1110
1100
1090
1080
1070

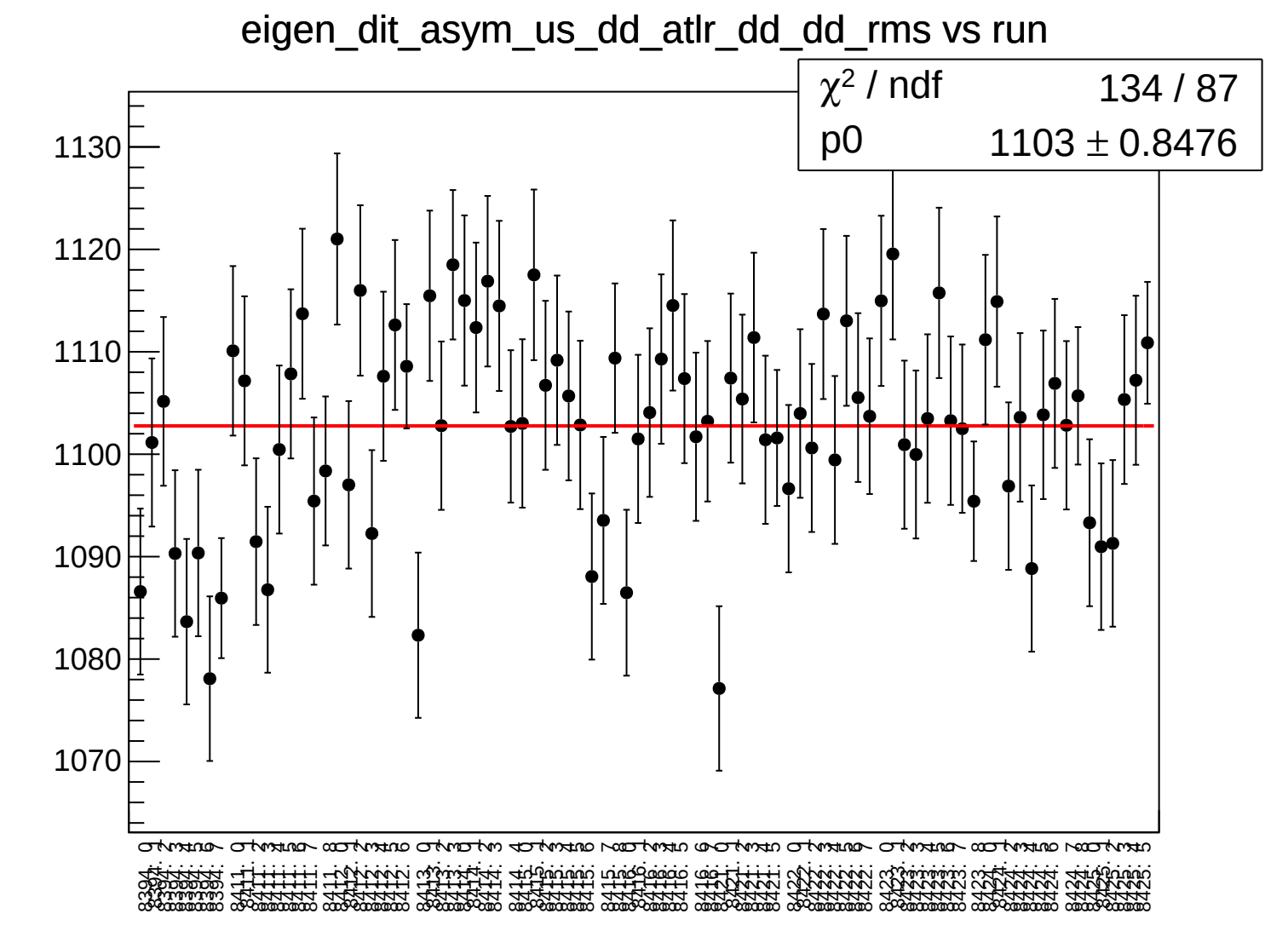

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 86.74 / 87
p0 −3334 ± 511.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 88
Mean 661.6
Std Dev 0
2
1
0
−1
−2
−3

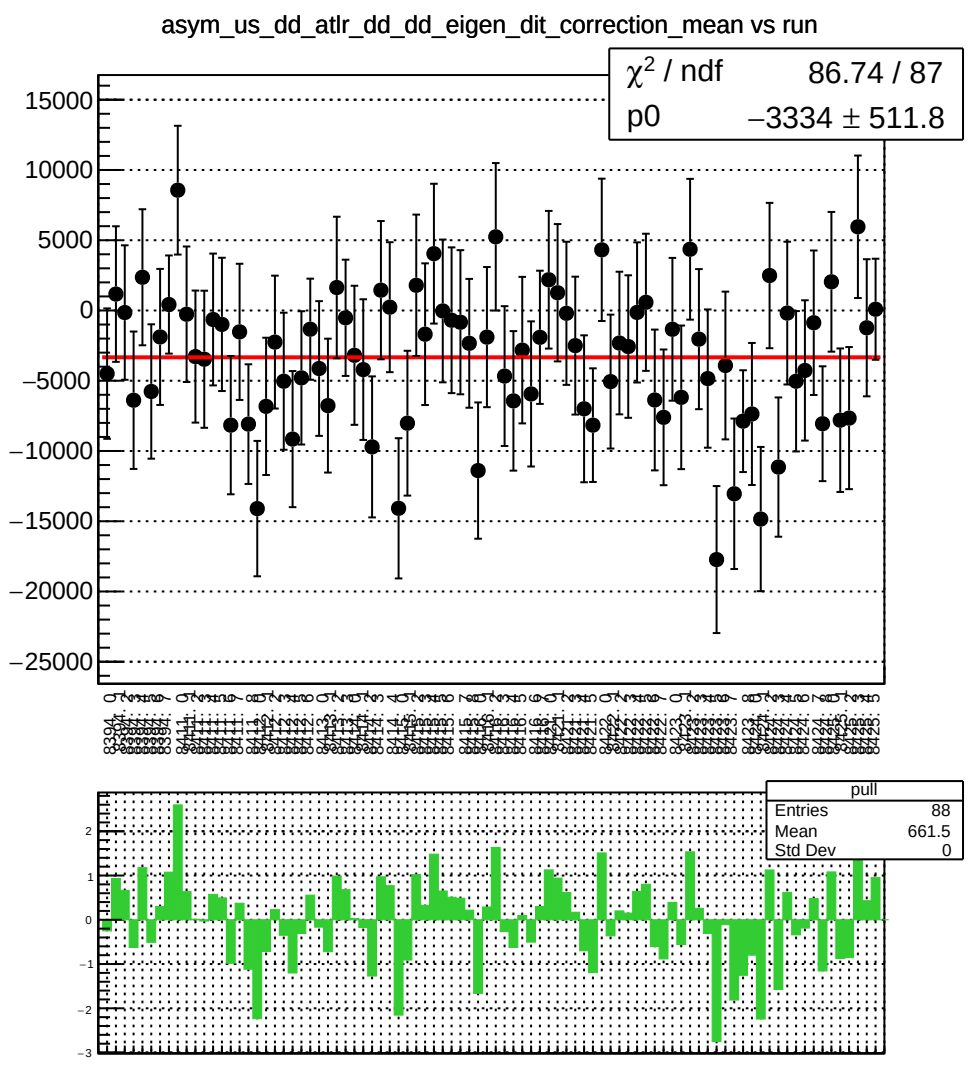

pull1D
Entries 88
Mean −0.004626
Std Dev 0.9928
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

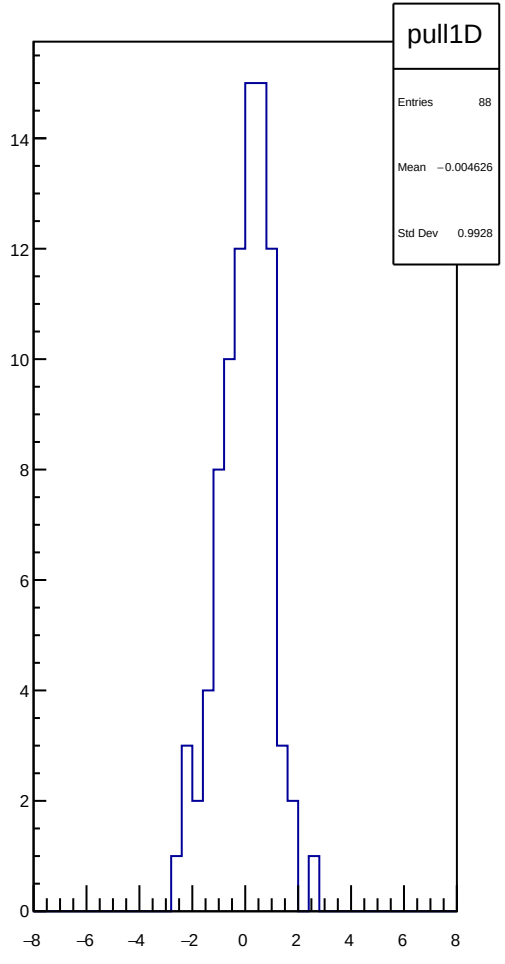

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 1646 / 87
p0 470.7 ± 0.3619
510
500
490
480
470
460
450
440
430

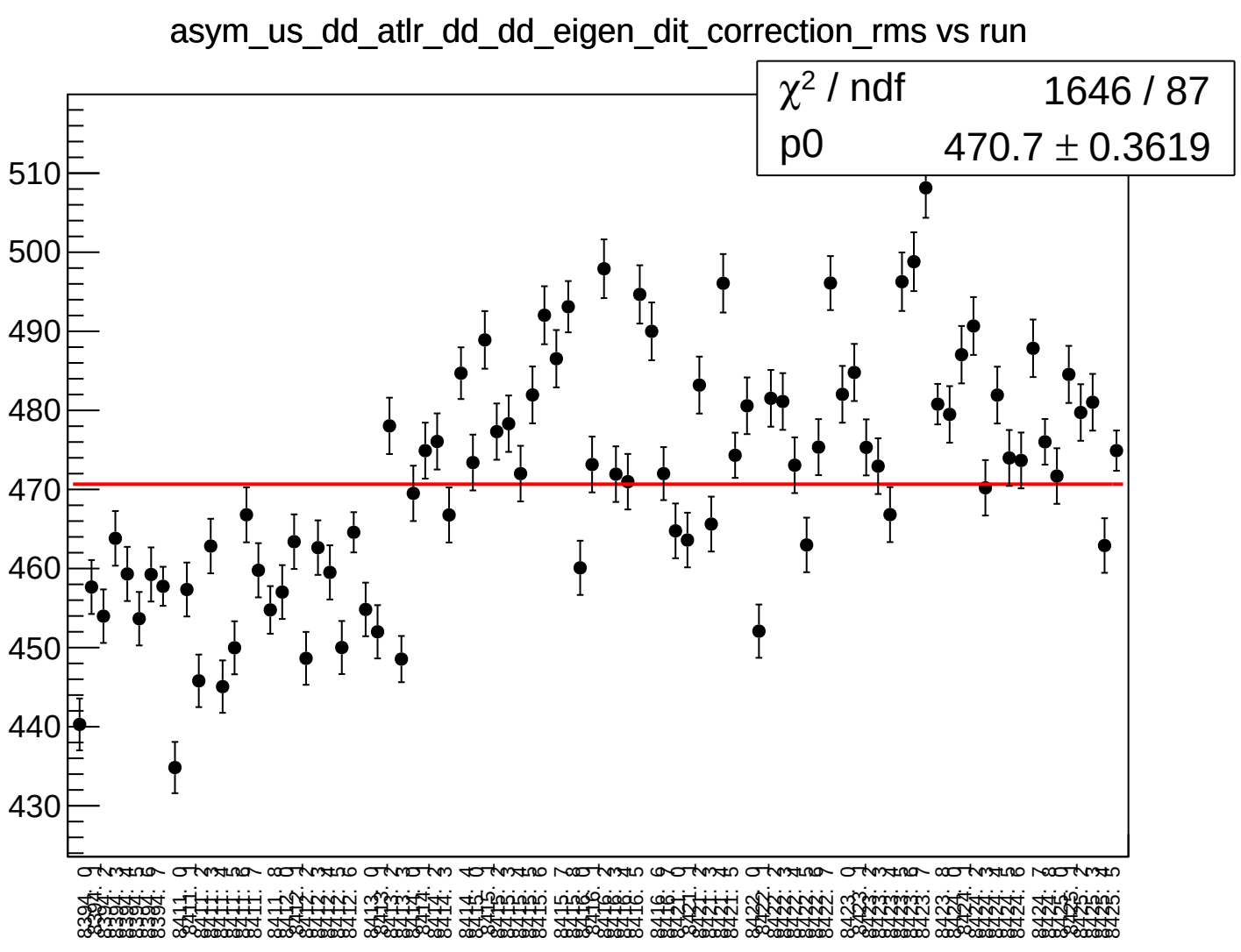

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 81.65 / 87
p0 −805.4 ± 1199
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −97.34
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

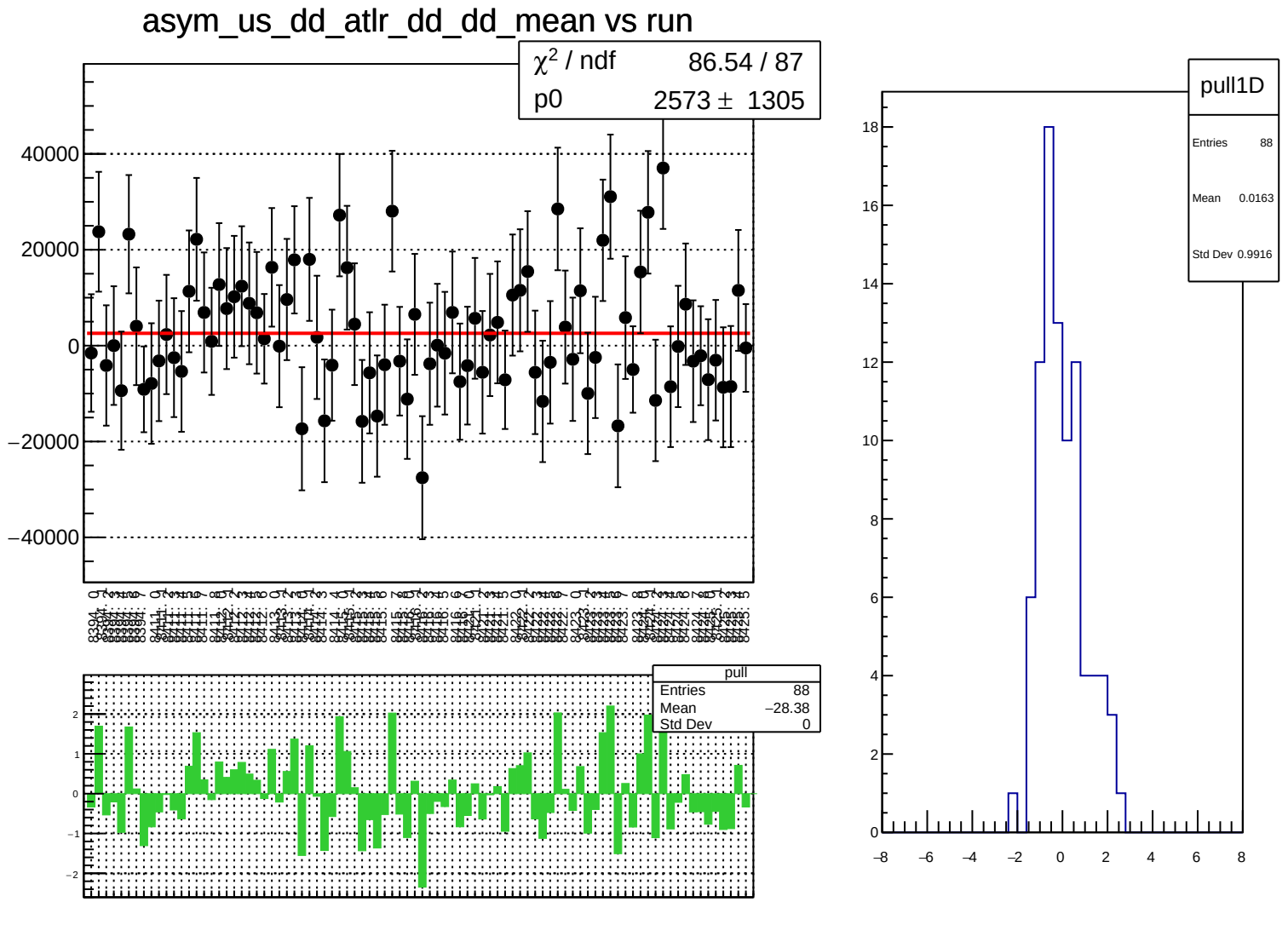

pull1D
Entries 88
Mean 0.01779
Std Dev 0.9631
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

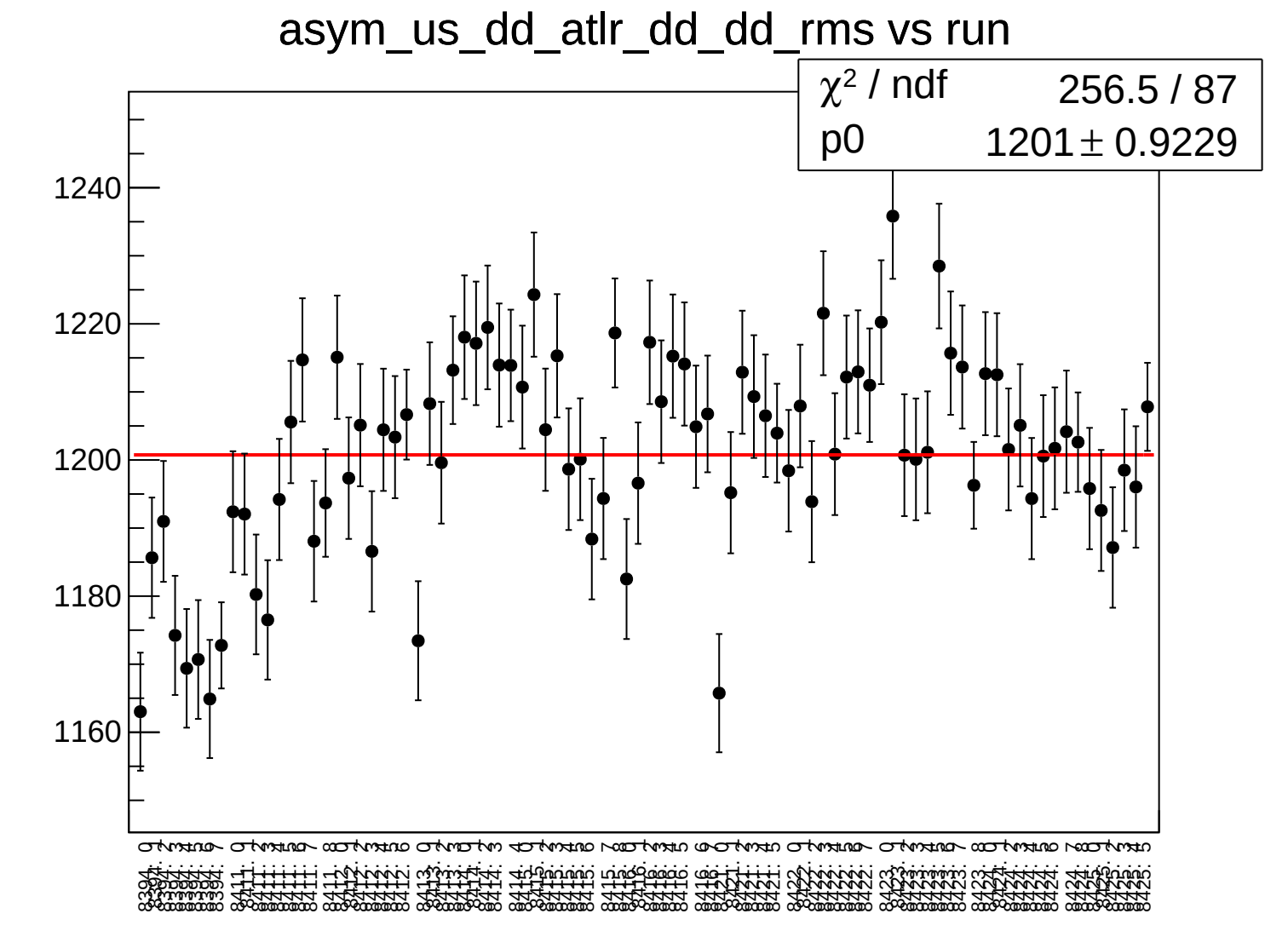

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 134 / 87
p0 1103 ± 0.8476
1130
1120
1110
1100
1090
1080
1070

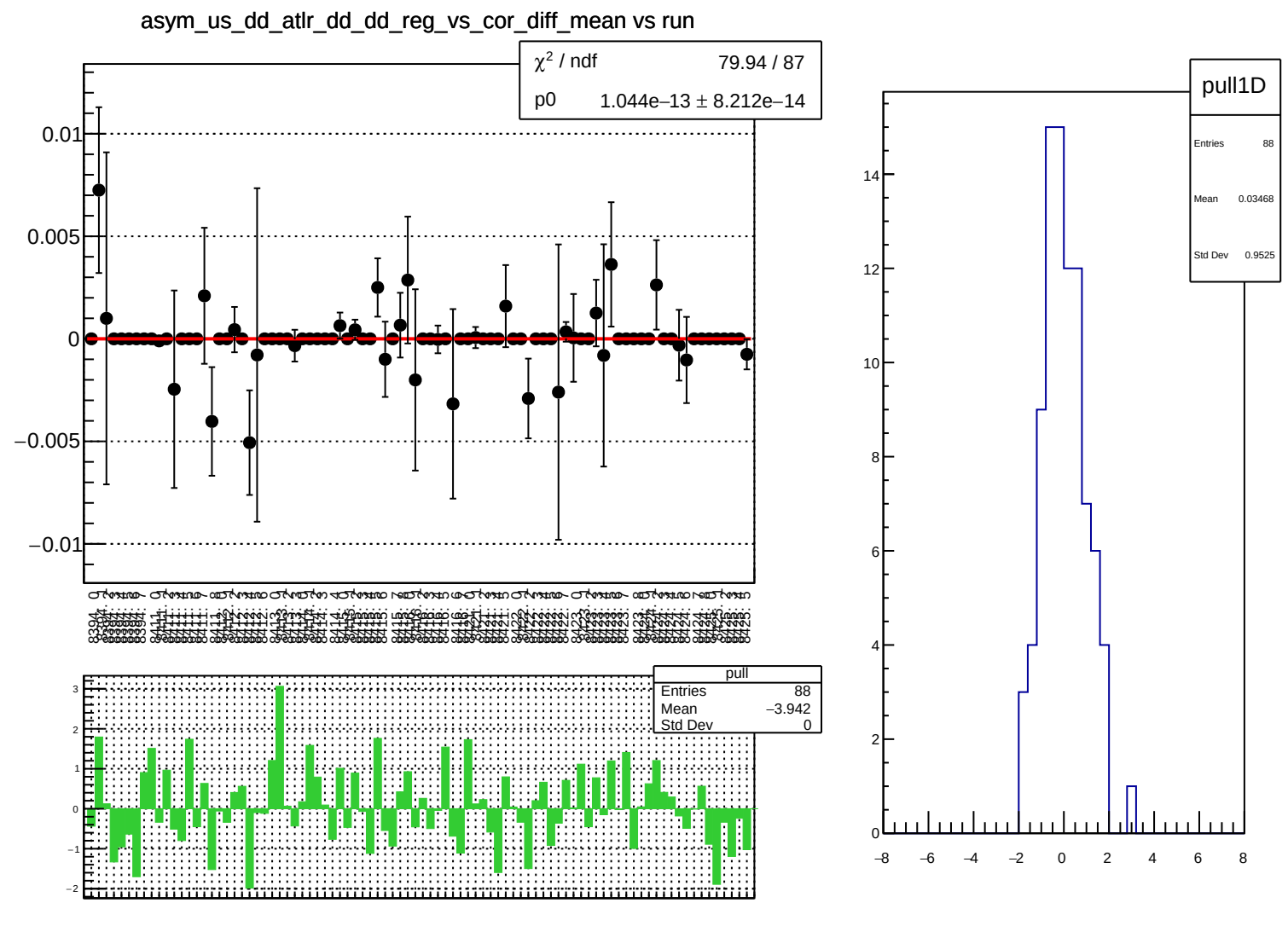

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 86.74 / 87
p0 −3334 ± 511.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 88
Mean 661.5
Std Dev 0
2
1
0
−1
−2
−3

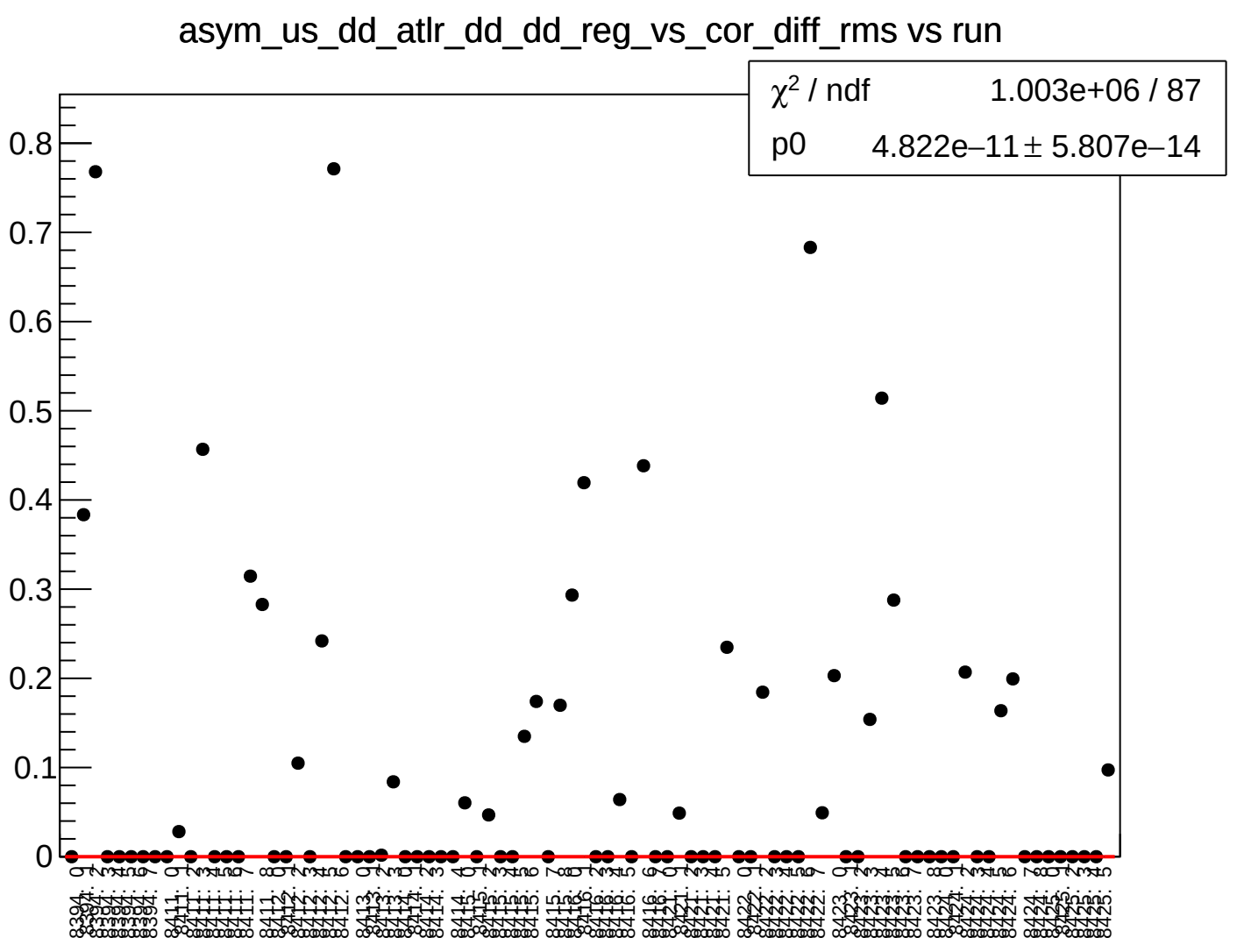

pull1D
Entries 88
Mean −0.004626
Std Dev 0.9928
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

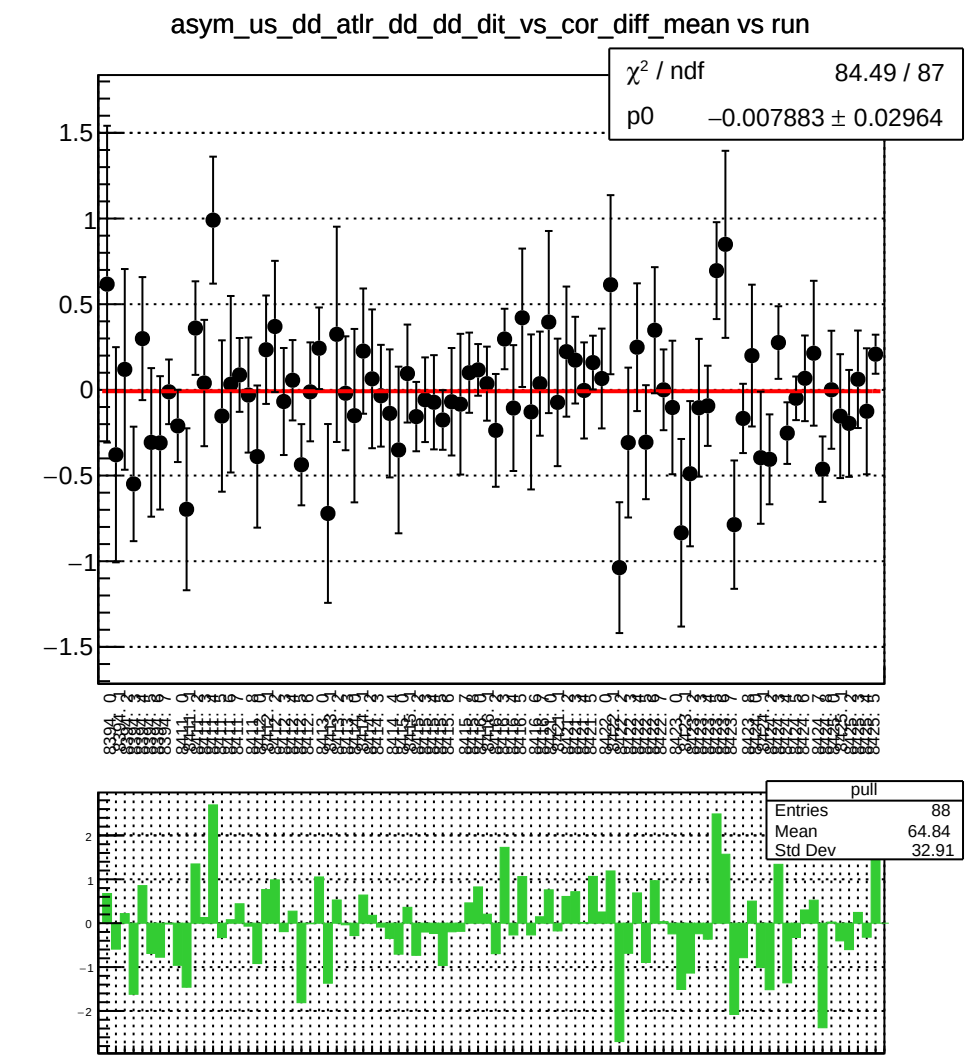

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1646 / 87
p0 470.7 ± 0.3619
510
500
490
480
470
460
450
440
430

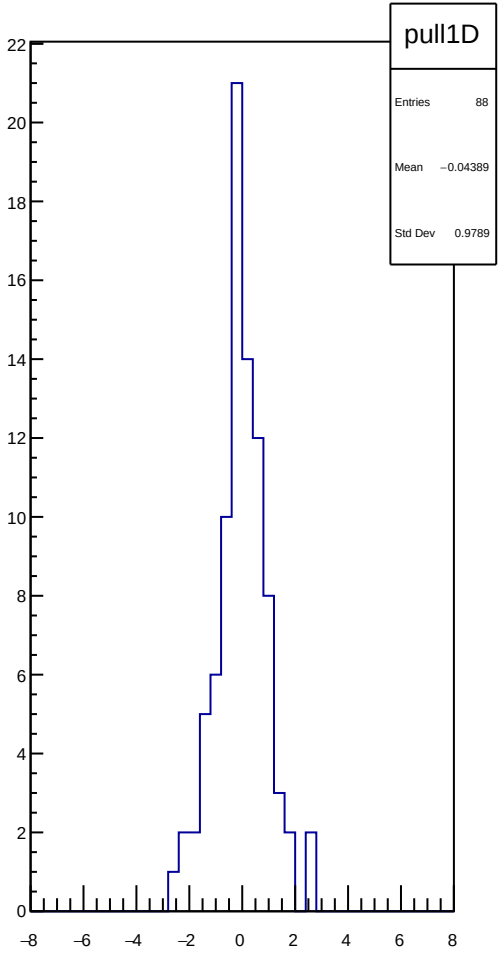

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 86.54 / 87
p0 2573 ± 1305
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −28.38
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.0163
Std Dev 0.9916
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

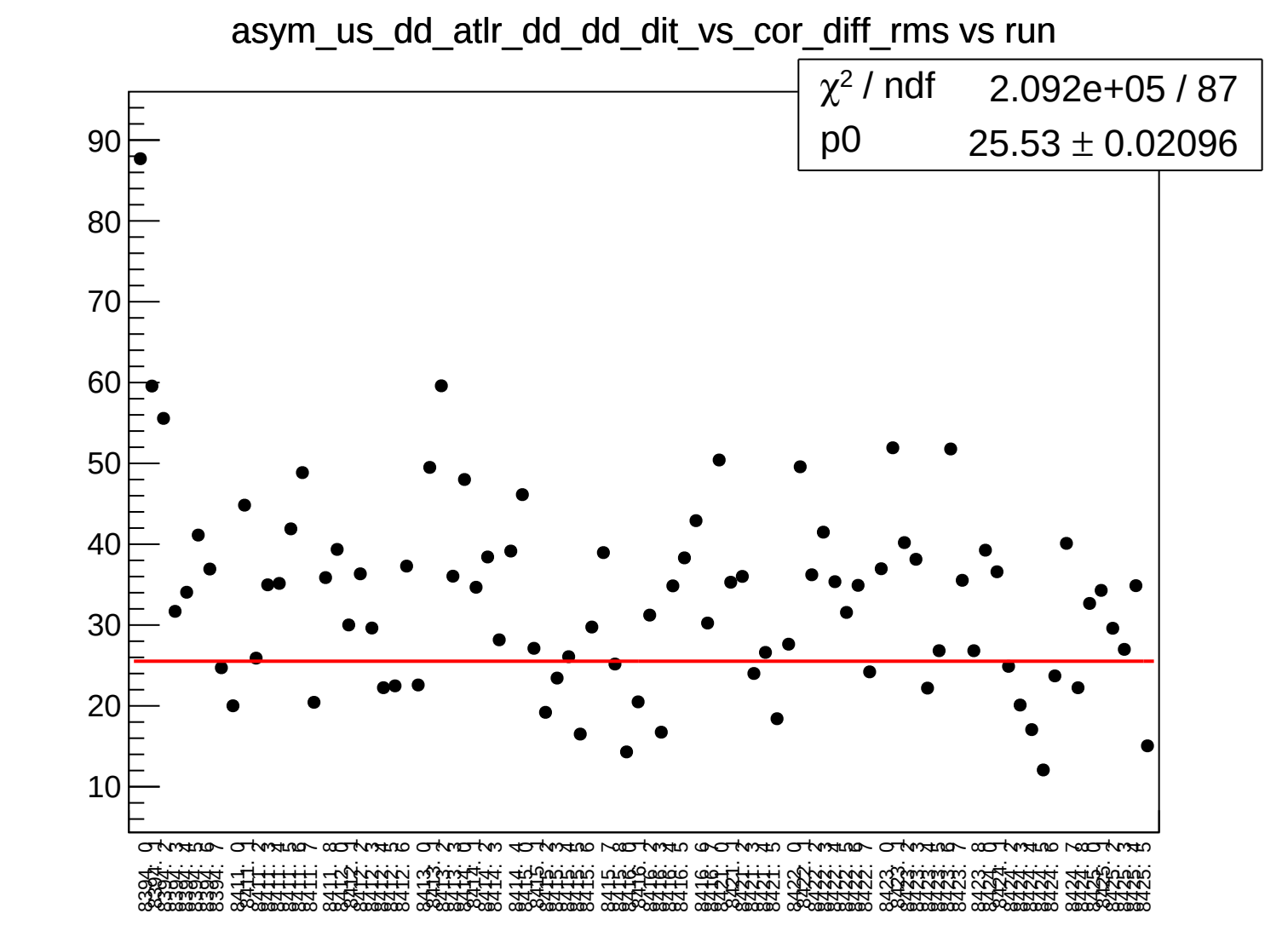

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 256.5 / 87
p0 1201 ± 0.9229
1240
1220
1200
1180
1160

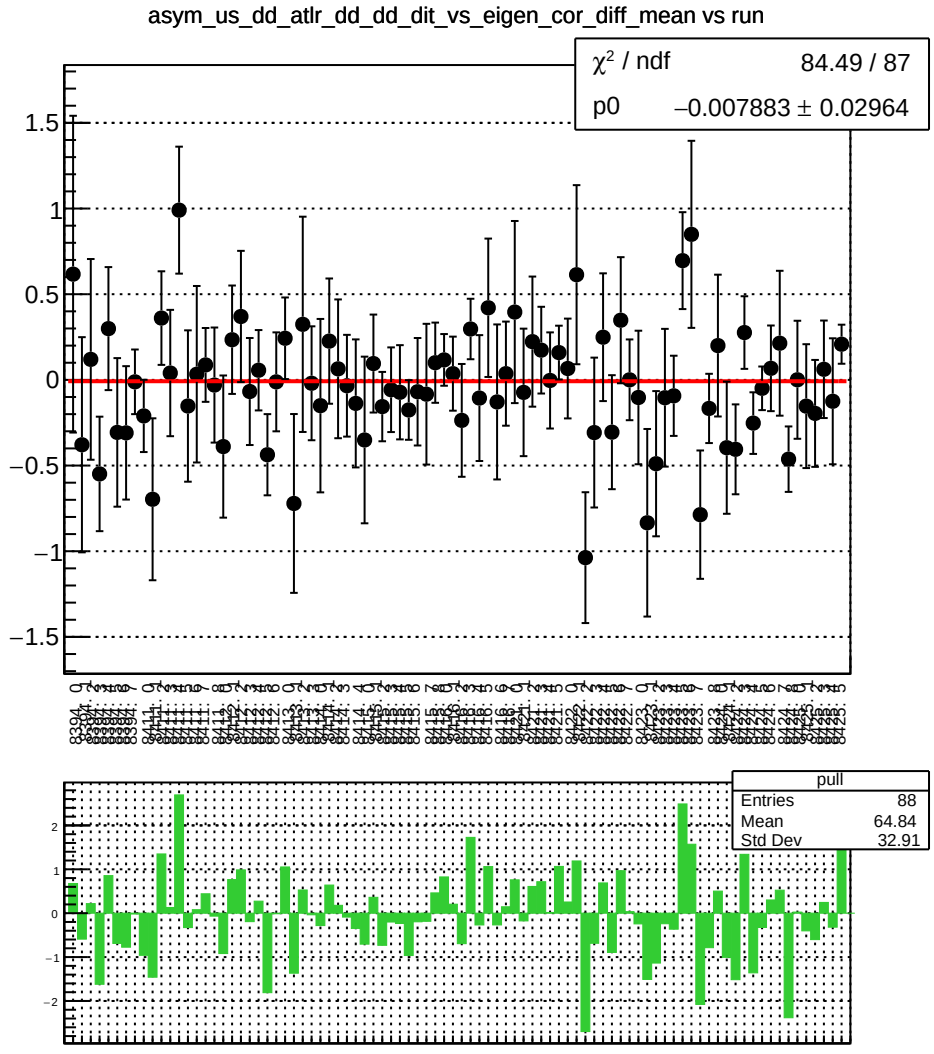

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.94 / 87
p0 1.044e−13 ± 8.212e−14
0.01
0.005
0
−0.005
−0.01
pull
Entries 88
Mean −3.942
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.03468
Std Dev 0.9525
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

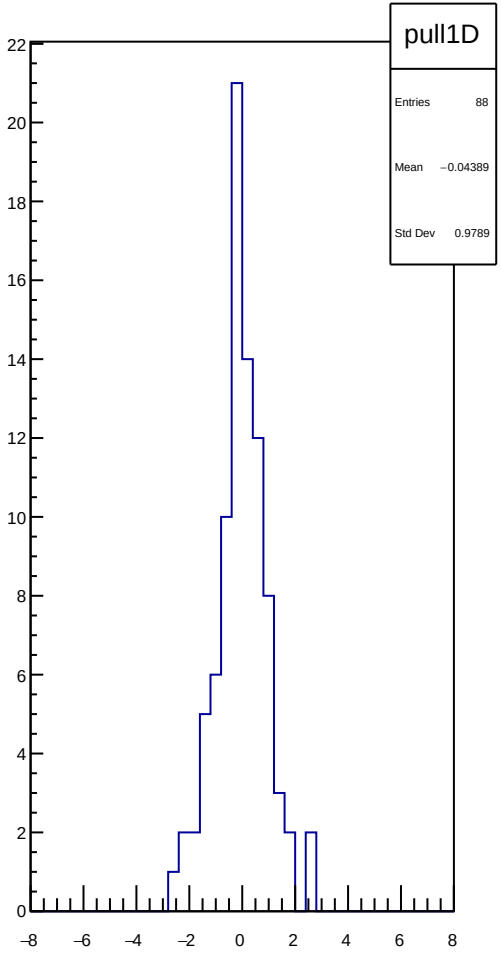

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.003e+06 / 87
p0 4.822e−11 ± 5.807e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

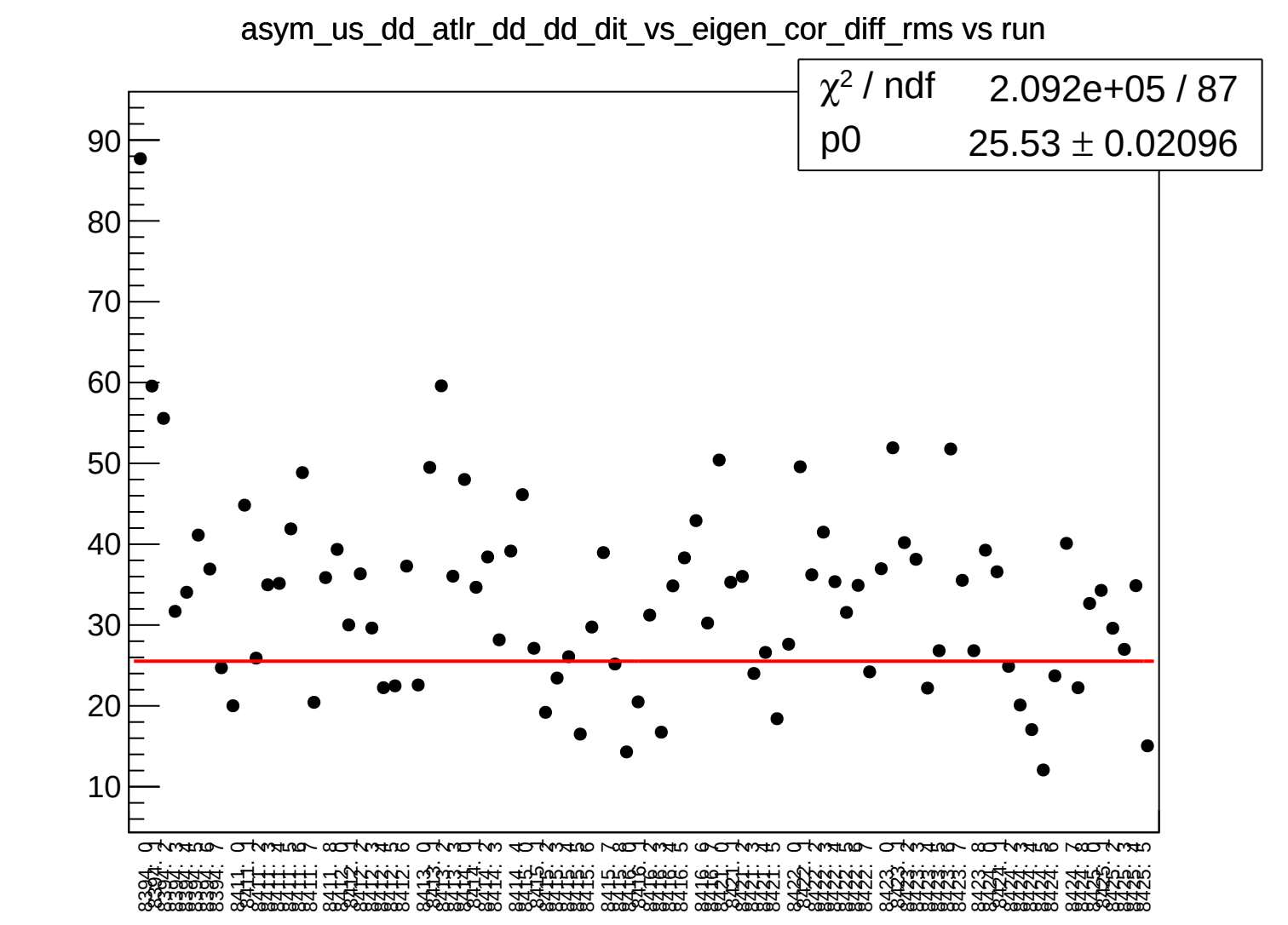

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.49 / 87
p0 −0.007883 ± 0.02964
pull
Entries 88
Mean 64.84
Std Dev 32.91

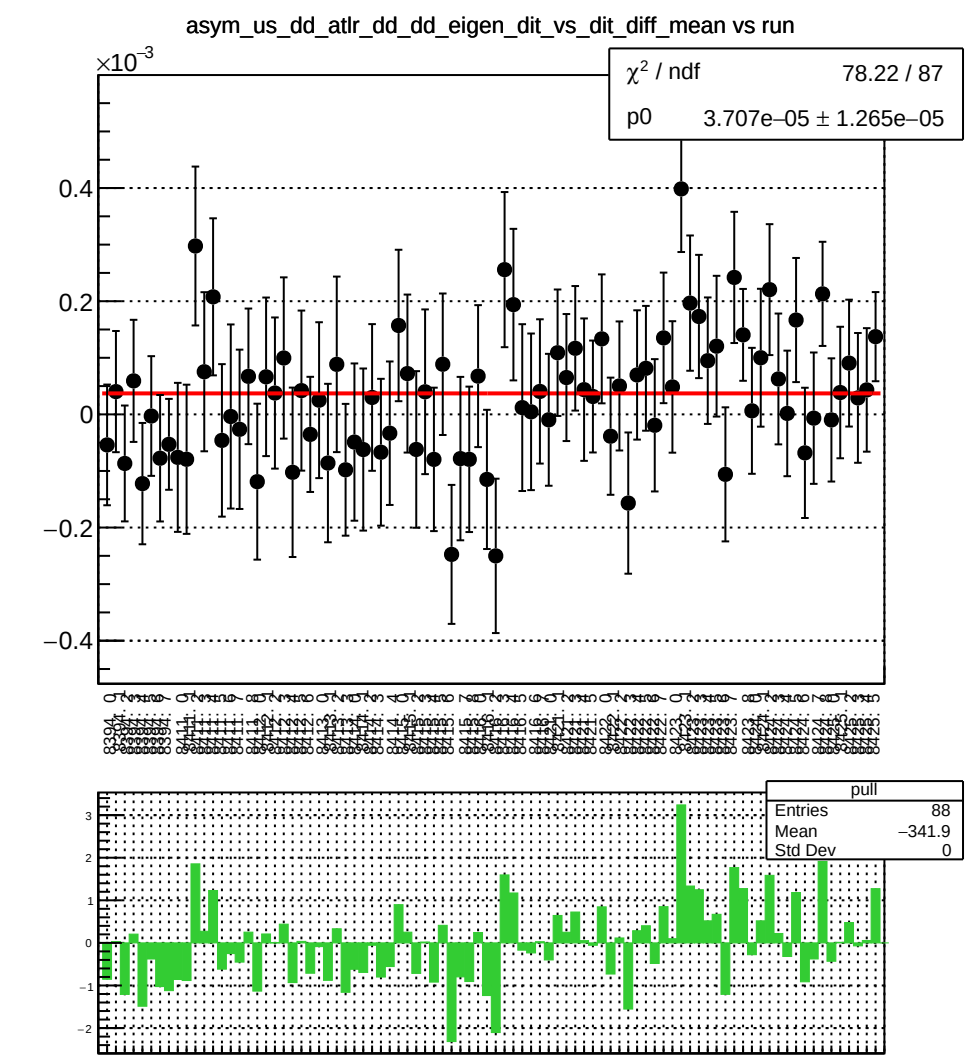

pull1D
Entries 88
Mean −0.04389
Std Dev 0.9789

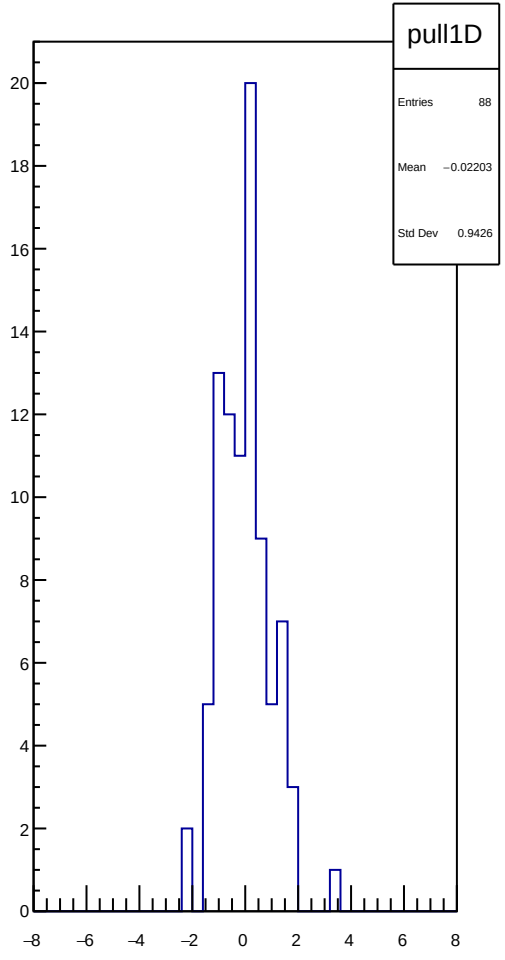

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.092e+05 / 87
p0 25.53 ± 0.02096
90
80
70
60
50
40
30
20
10

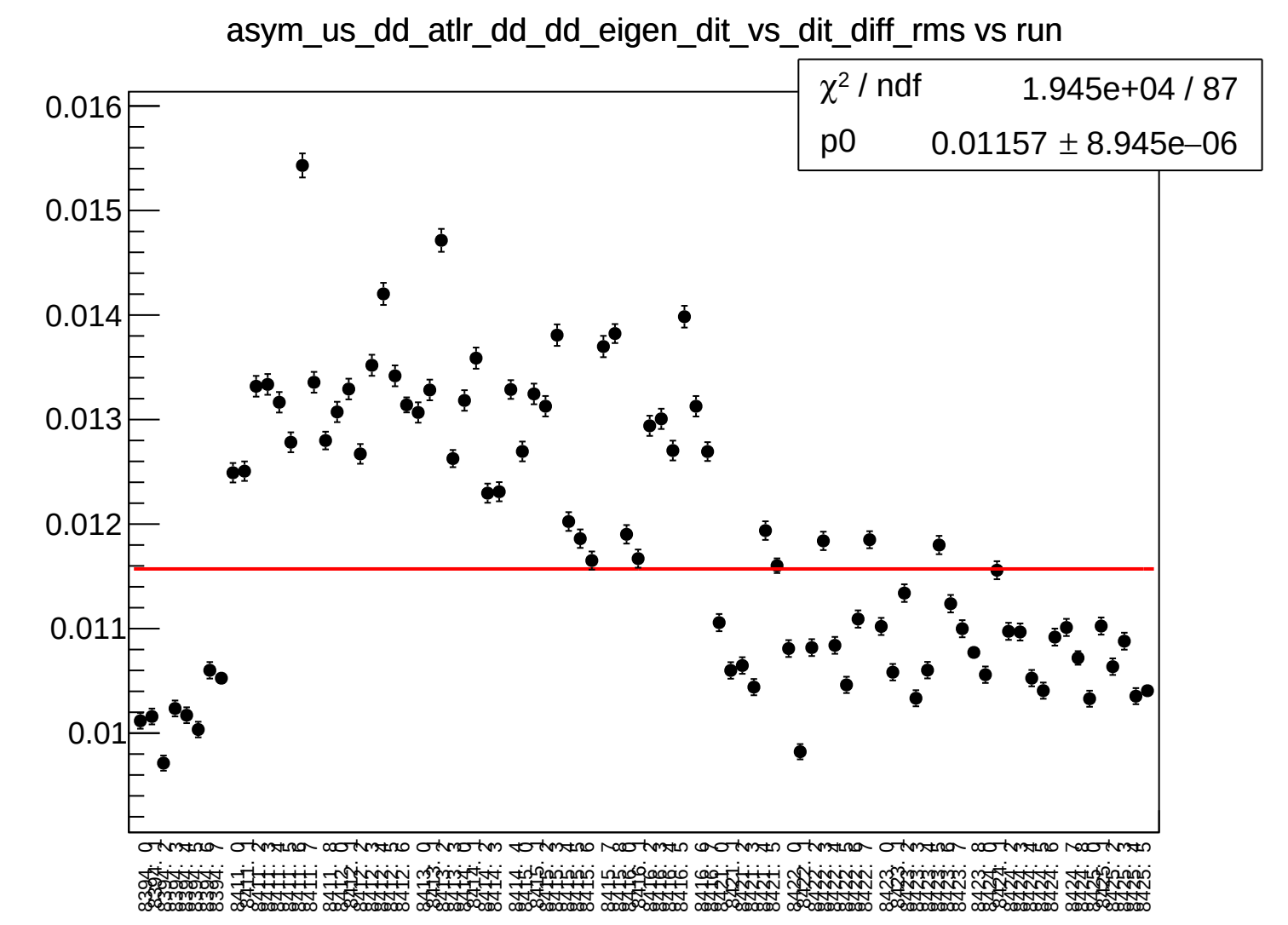

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.49 / 87
p0 −0.007883 ± 0.02964
pull
Entries 88
Mean 64.84
Std Dev 32.91

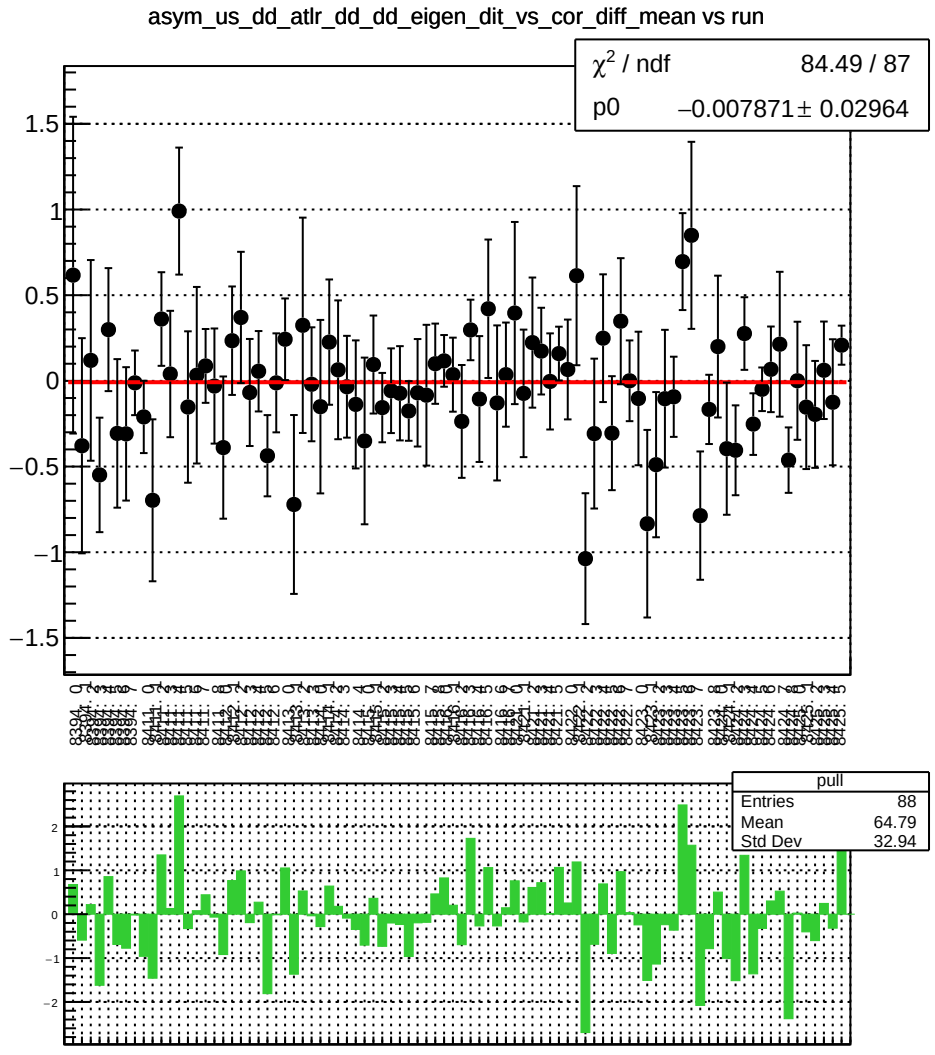

pull1D
Entries 88
Mean −0.04389
Std Dev 0.9789

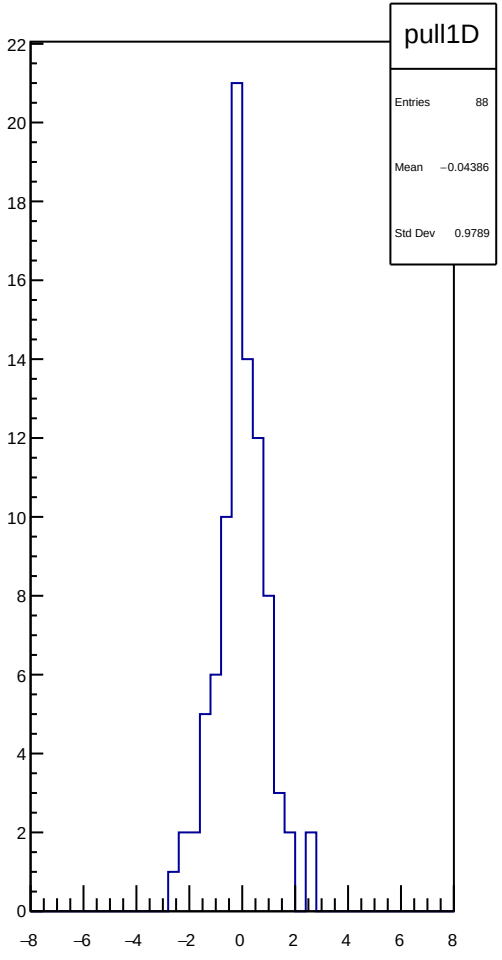

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.092e+05 / 87
p0 25.53 ± 0.02096
90
80
70
60
50
40
30
20
10

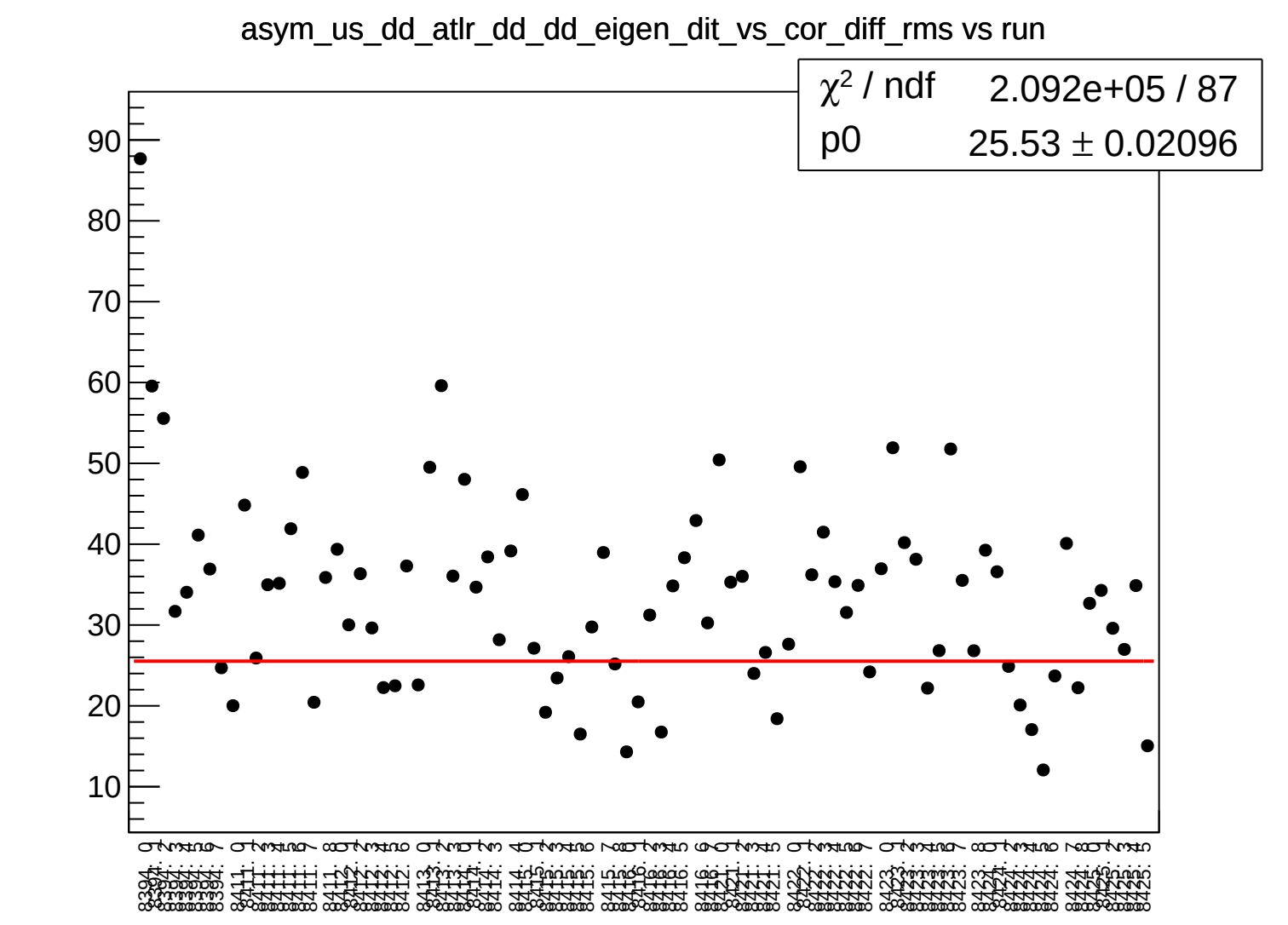

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 78.22 / 87
p0 3.707e−05 ± 1.265e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 88
Mean −341.9
Std Dev 0
3
2
1
0
−1
−2

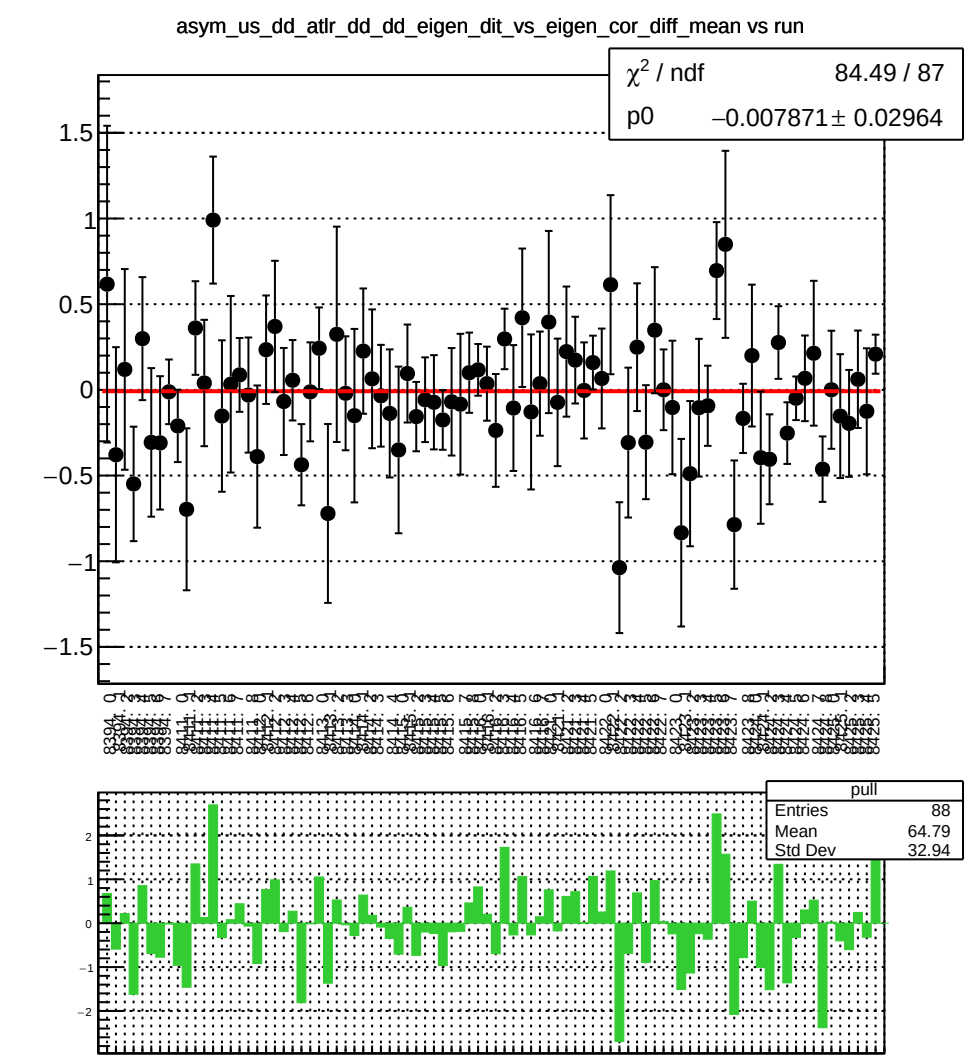

pull1D
Entries 88
Mean −0.02203
Std Dev 0.9426
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

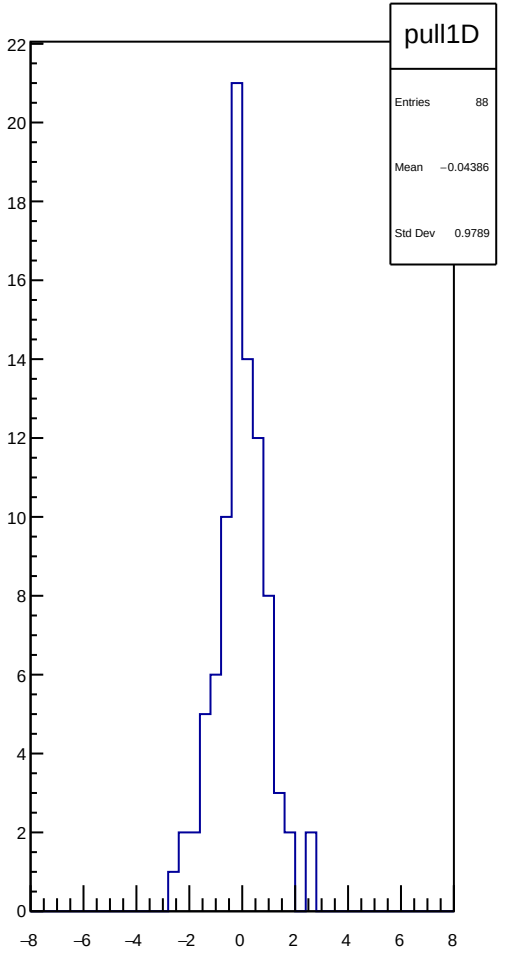

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.945e+04 / 87
p0 0.01157 ± 8.945e−06
0.016
0.015
0.014
0.013
0.012
0.011
0.01

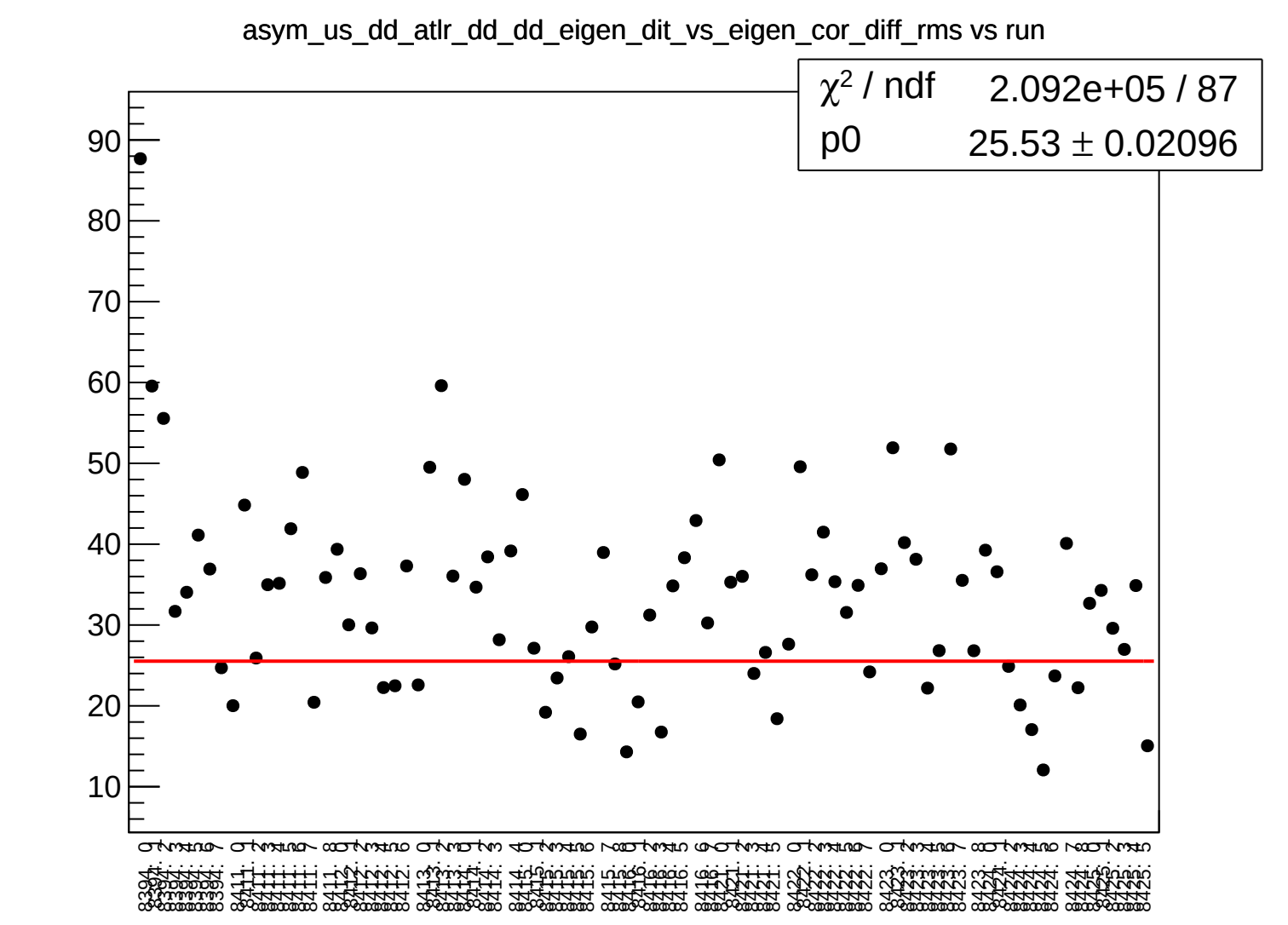

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.49 / 87
p0 −0.007871 ± 0.02964
pull
Entries 88
Mean 64.79
Std Dev 32.94

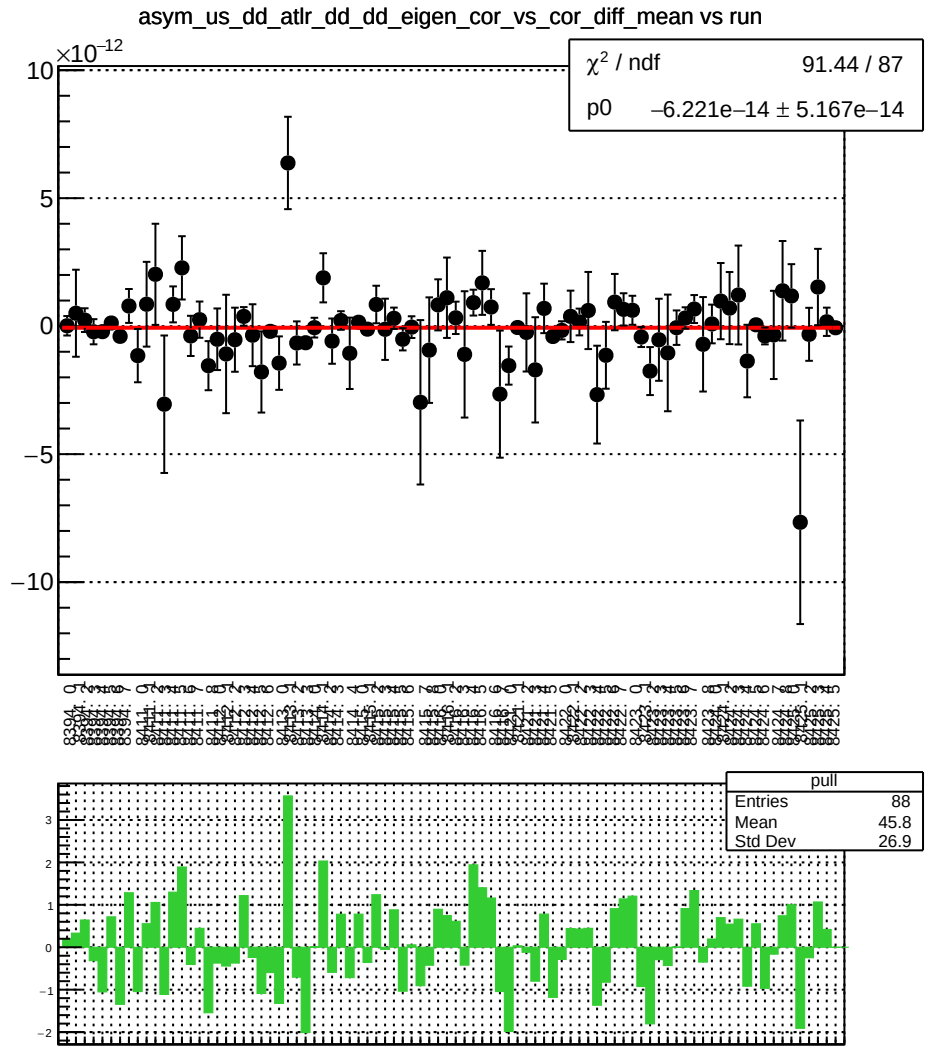

pull1D
Entries 88
Mean −0.04386
Std Dev 0.9789

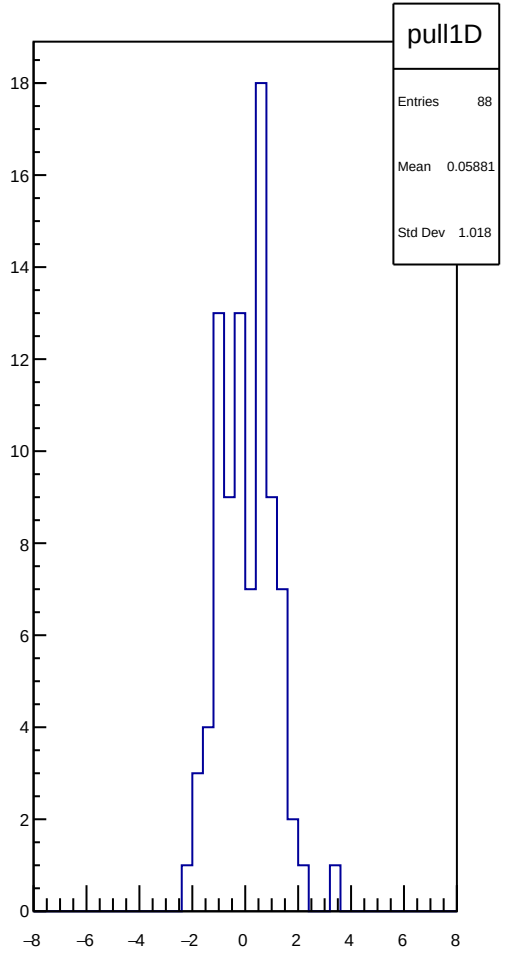

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.092e+05 / 87
p0 25.53 ± 0.02096
90
80
70
60
50
40
30
20
10

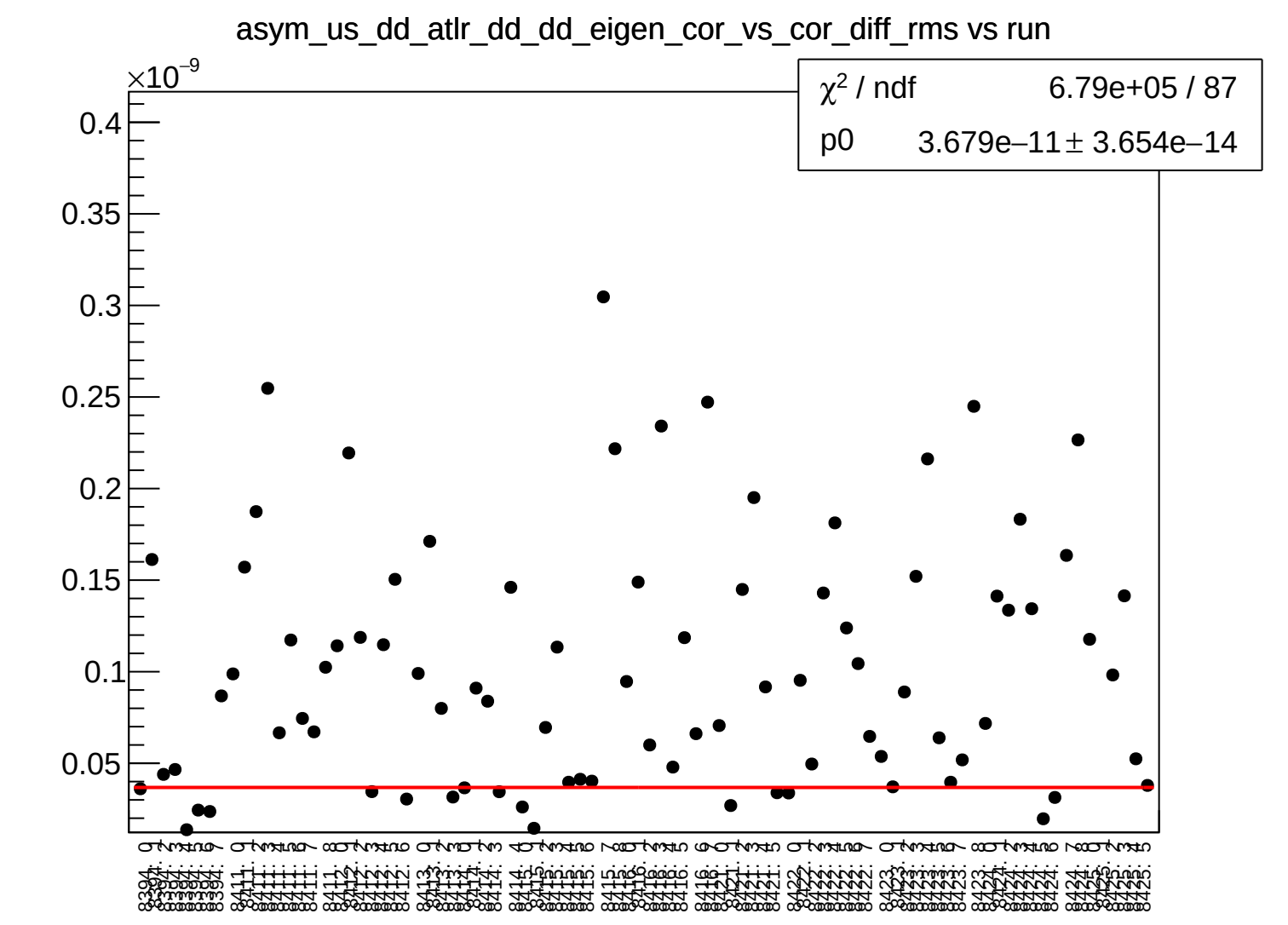

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.49 / 87
p0 −0.007871 ± 0.02964
pull
Entries 88
Mean 64.79
Std Dev 32.94

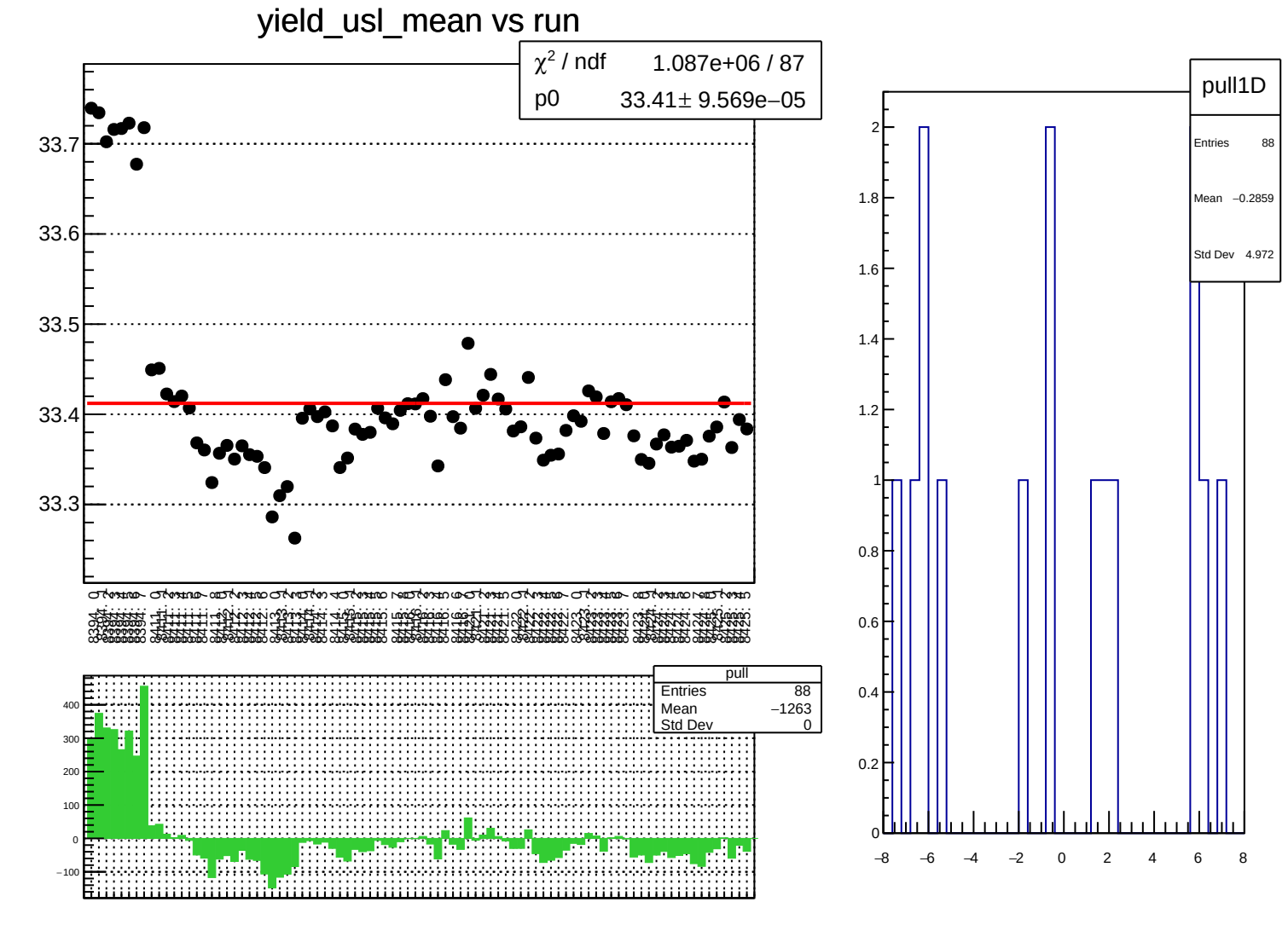

pull1D
Entries 88
Mean −0.04386
Std Dev 0.9789

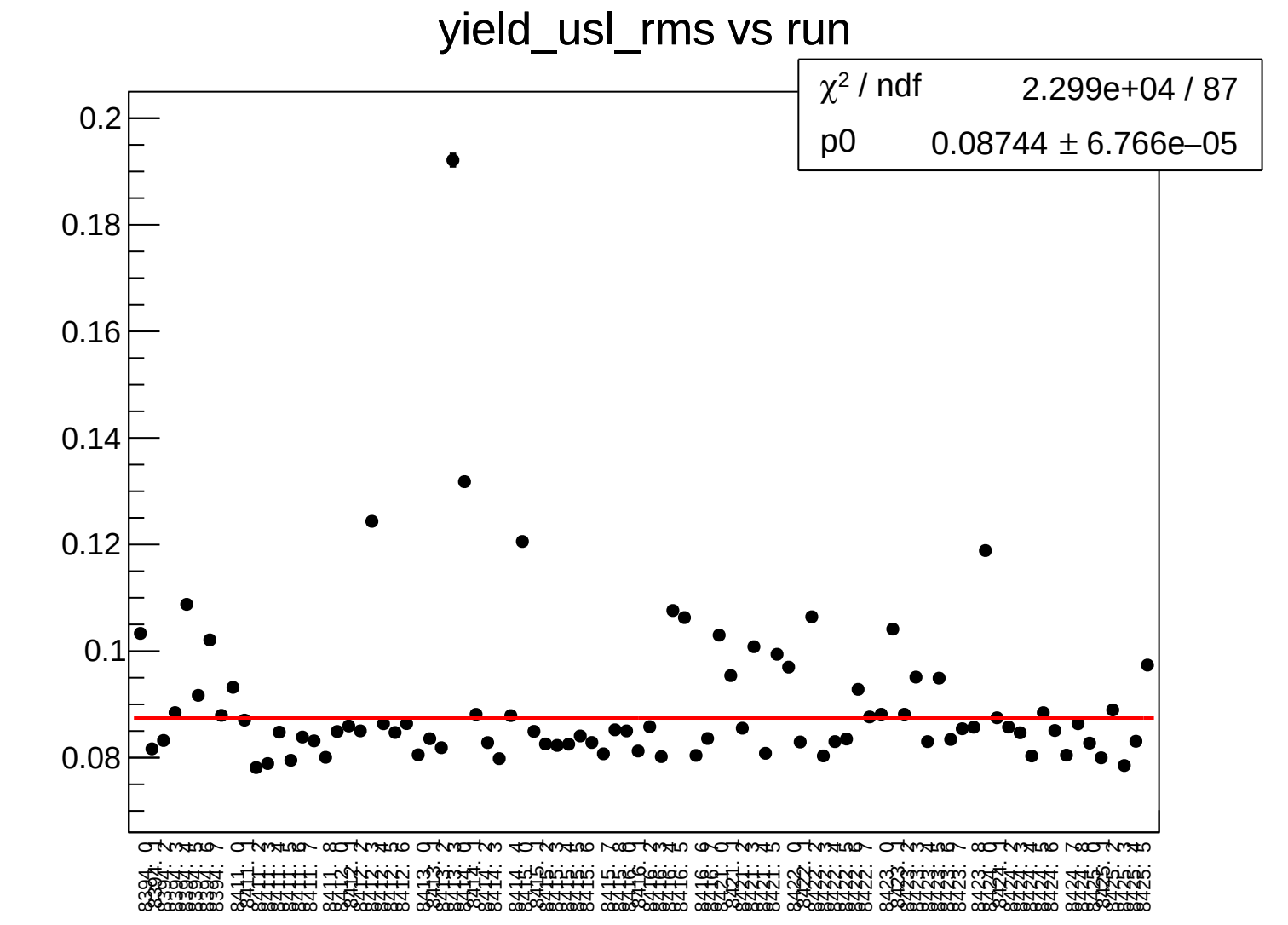

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.092e+05 / 87
p0 25.53 ± 0.02096
90
80
70
60
50
40
30
20
10

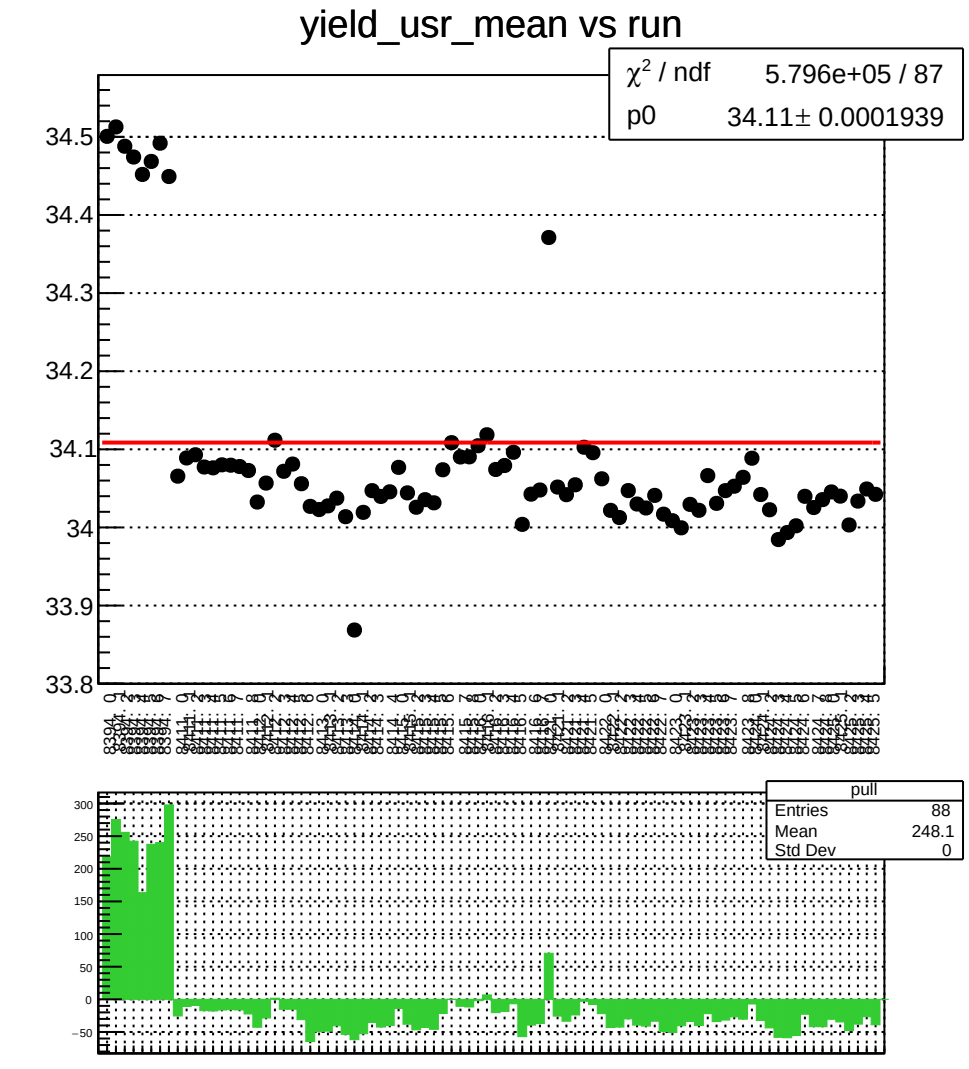

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.44 / 87
p0 −6.221e−14 ± 5.167e−14
pull
Entries 88
Mean 45.8
Std Dev 26.9

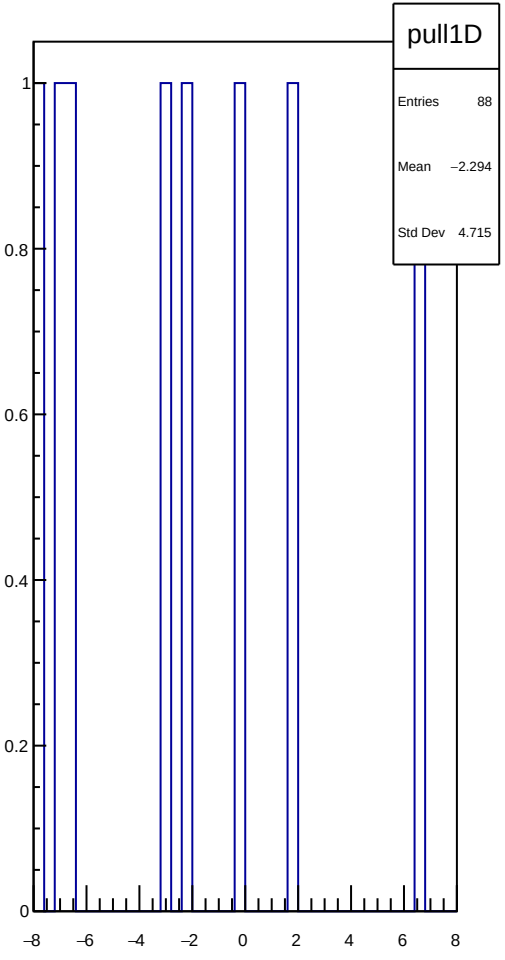

pull1D
Entries 88
Mean 0.05881
Std Dev 1.018

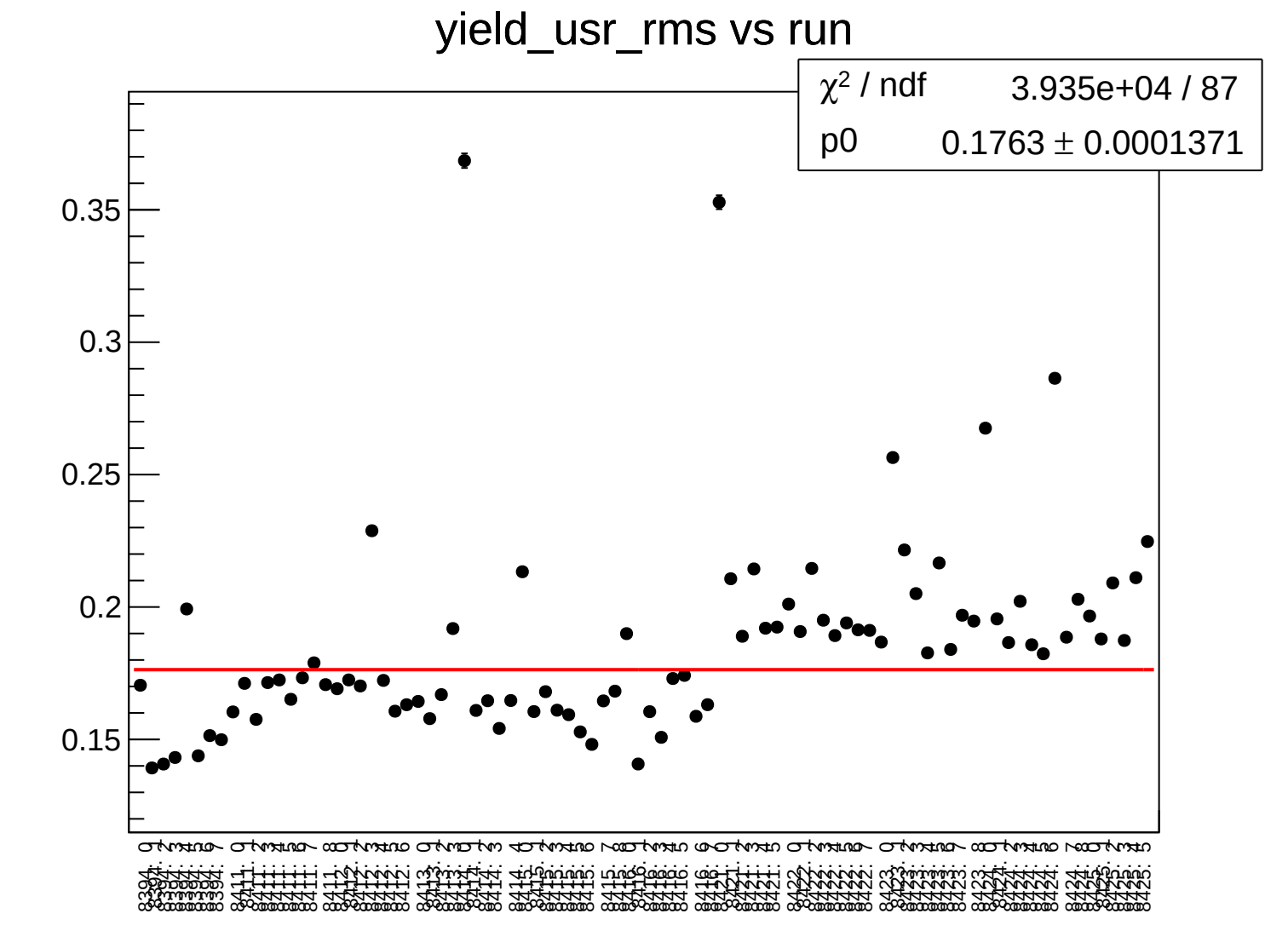

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.79e+05 / 87
p0 3.679e−11 ± 3.654e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

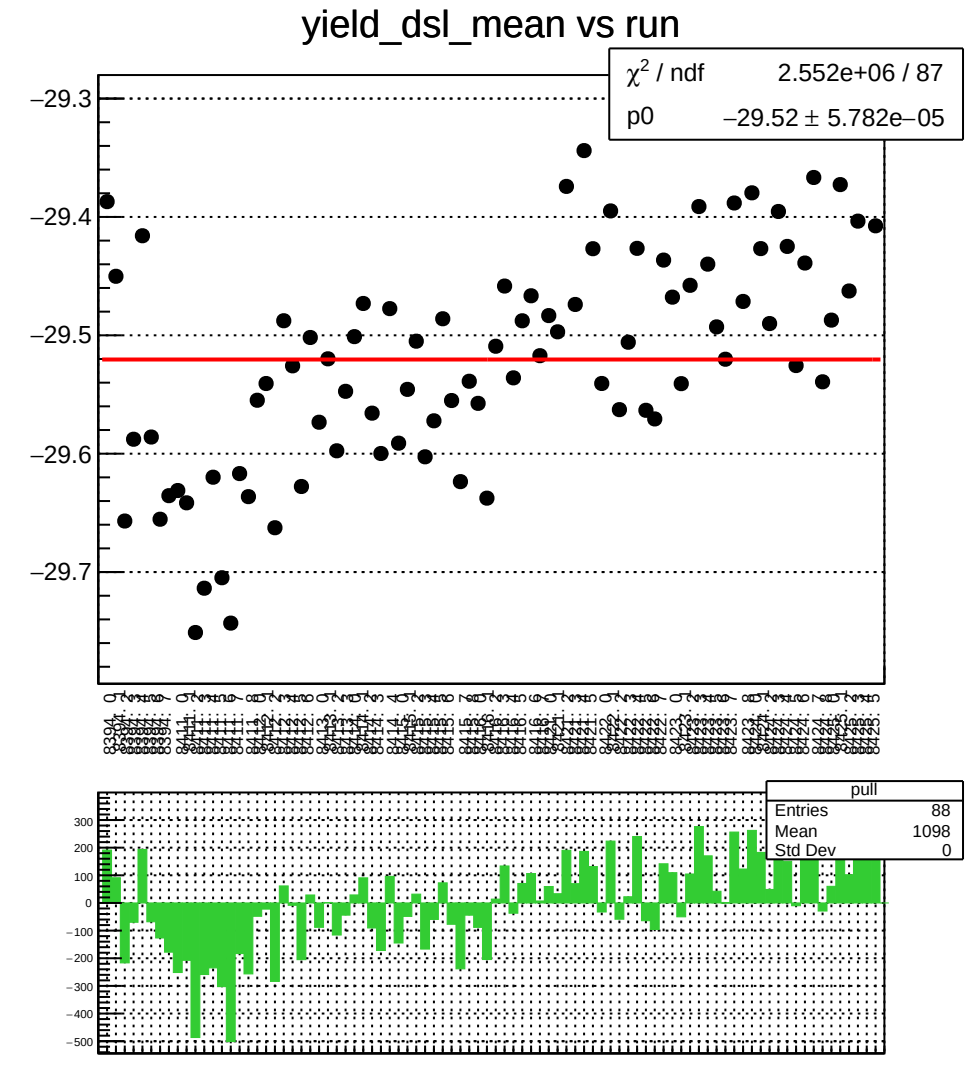

yield_usl_mean vs run
χ² / ndf 1.087e+06 / 87
p0 33.41± 9.569e−05
33.7
33.6
33.5
33.4
33.3
pull
Entries 88
Mean −1263
Std Dev 0
400
300
200
100
0
−100
pull1D
Entries 88
Mean −0.2859
Std Dev 4.972
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

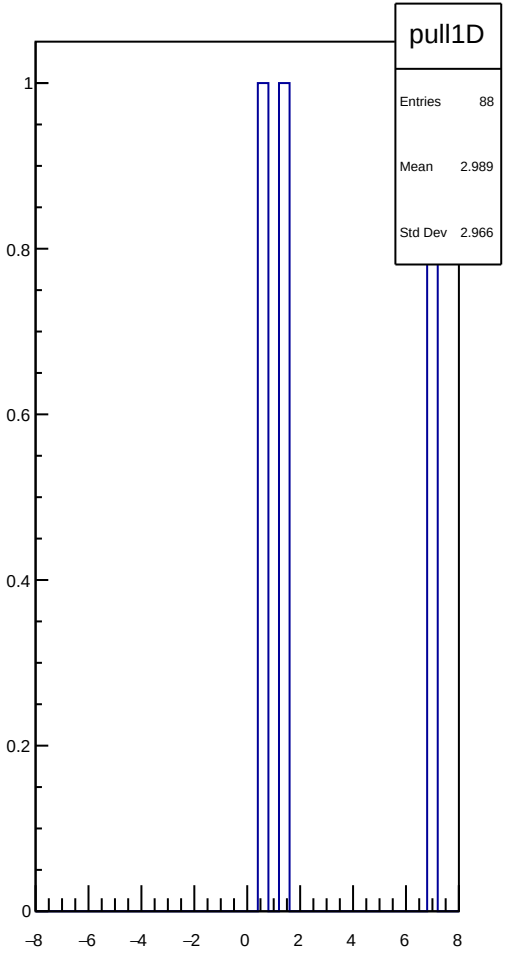

yield_usl_rms vs run
χ² / ndf 2.299e+04 / 87
p0 0.08744 ± 6.766e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08

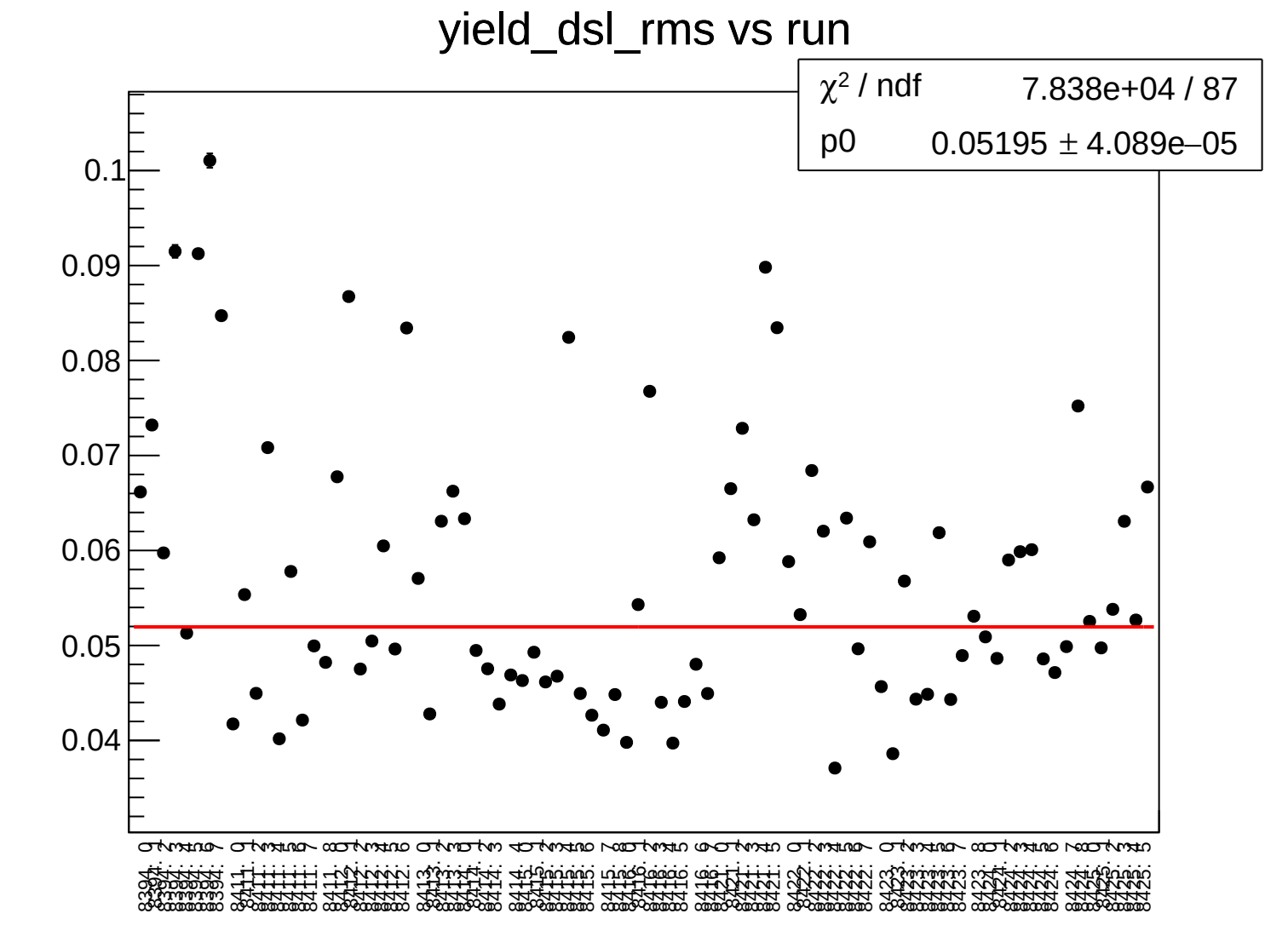

yield_usr_mean vs run
χ² / ndf 5.796e+05 / 87
p0 34.11± 0.0001939
34.5
34.4
34.3
34.2
34.1
34
33.9
33.8
pull
Entries 88
Mean 248.1
Std Dev 0
300
250
200
150
100
50
0
−50

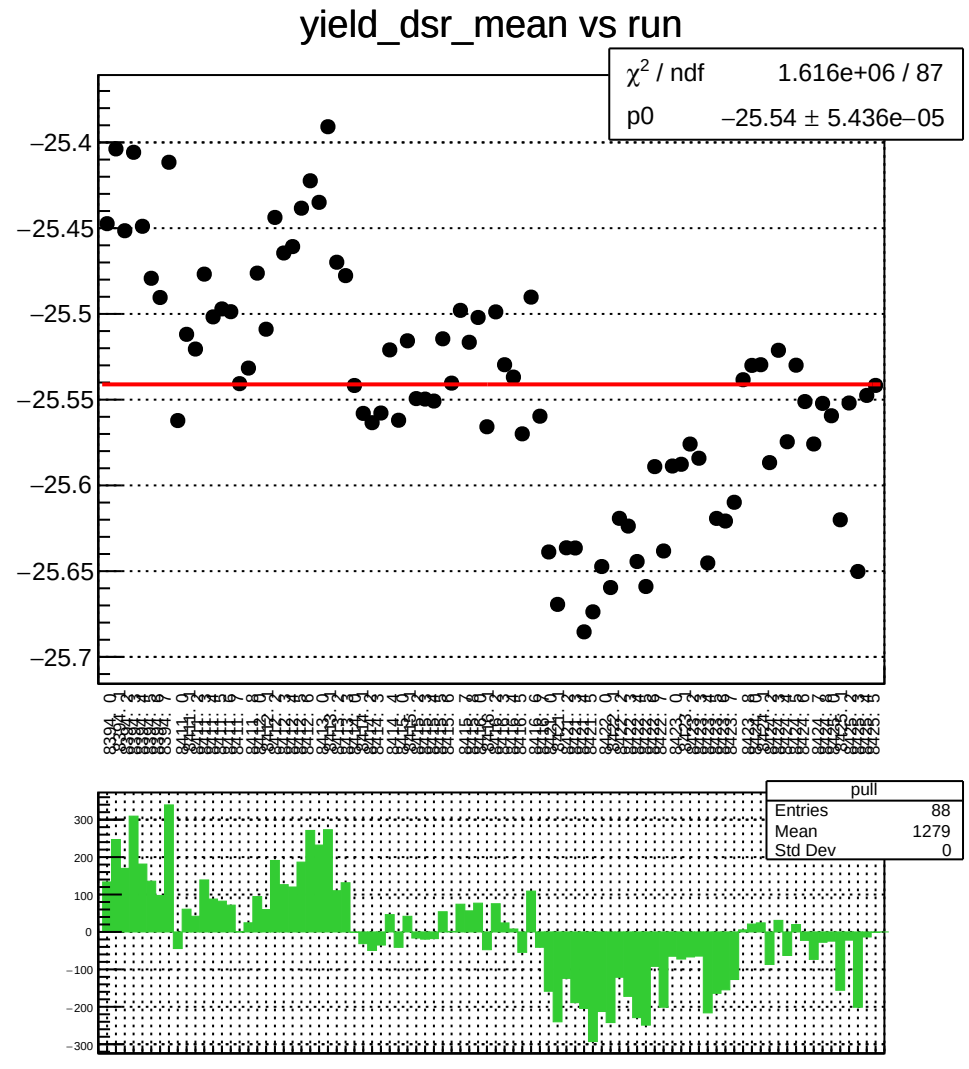

pull1D
Entries 88
Mean −2.294
Std Dev 4.715
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

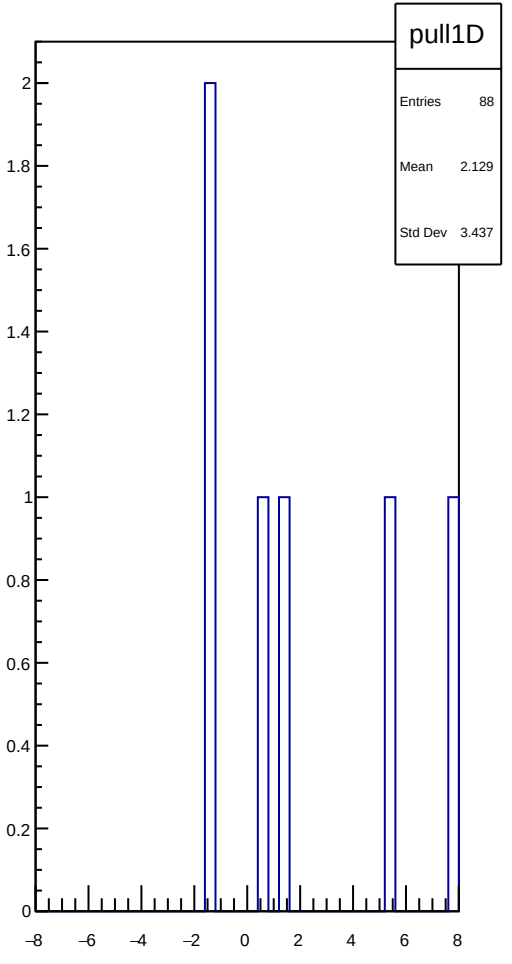

yield_usr_rms vs run
χ² / ndf 3.935e+04 / 87
p0 0.1763 ± 0.0001371
0.35
0.3
0.25
0.2
0.15

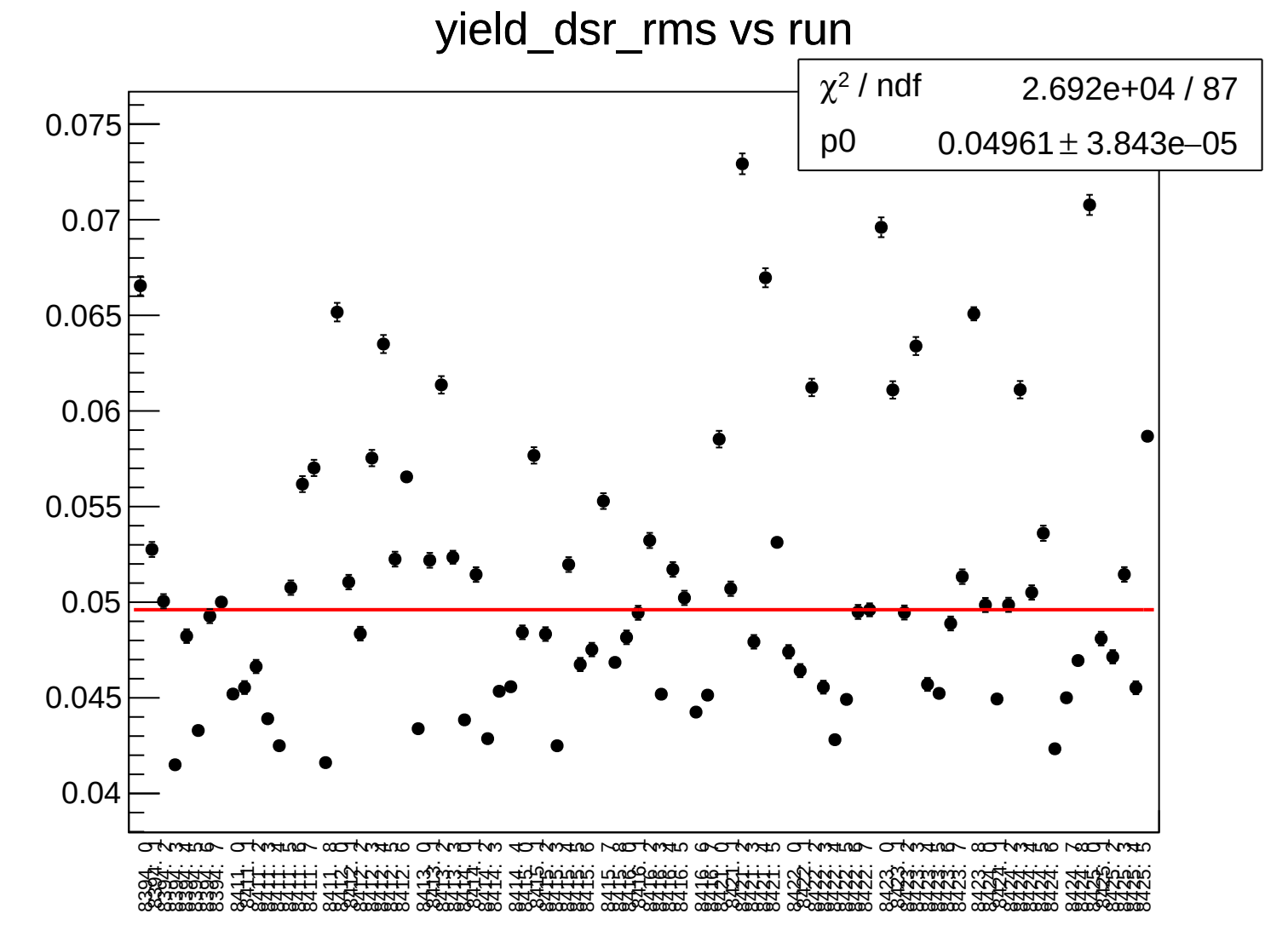

yield_dsl_mean vs run
χ² / ndf 2.552e+06 / 87
p0 −29.52 ± 5.782e−05
−29.3
−29.4
−29.5
−29.6
−29.7
pull
Entries 88
Mean 1098
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500

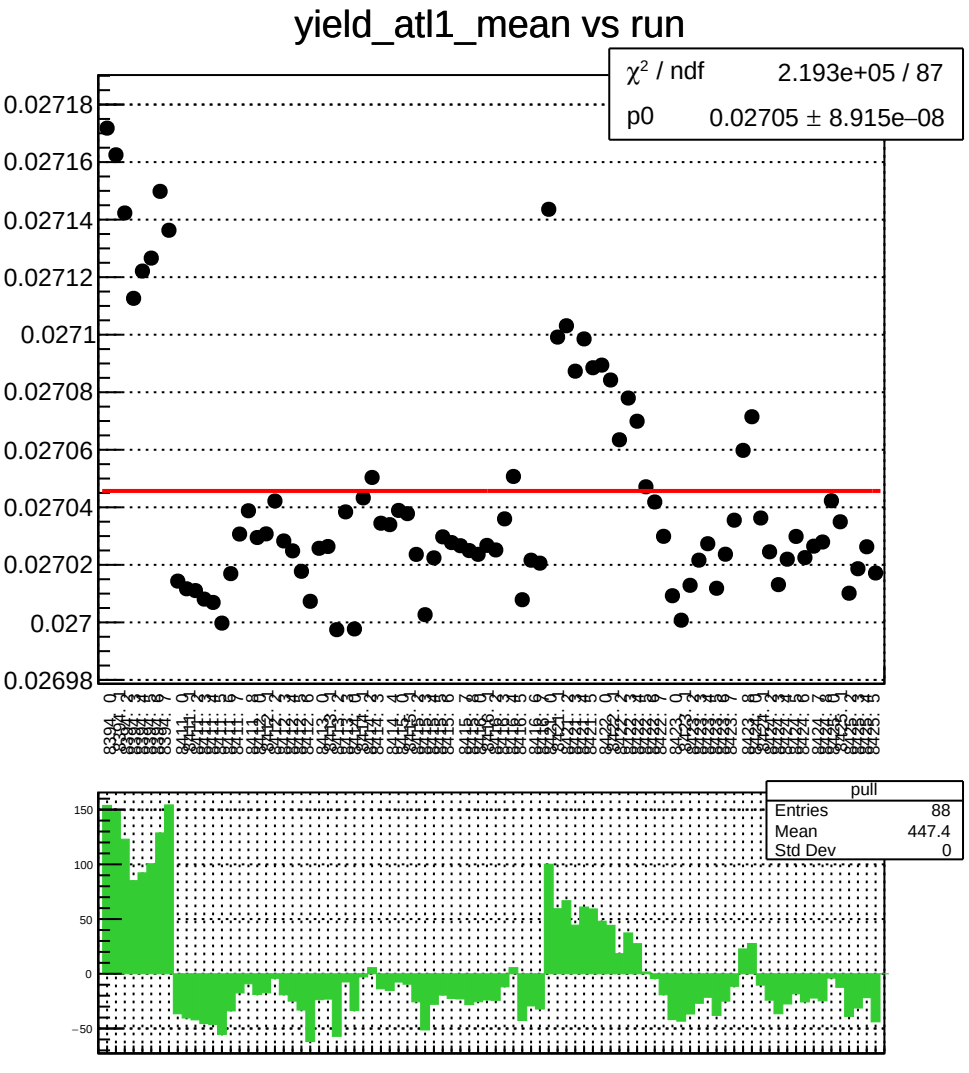

pull1D
Entries 88
Mean 2.989
Std Dev 2.966
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

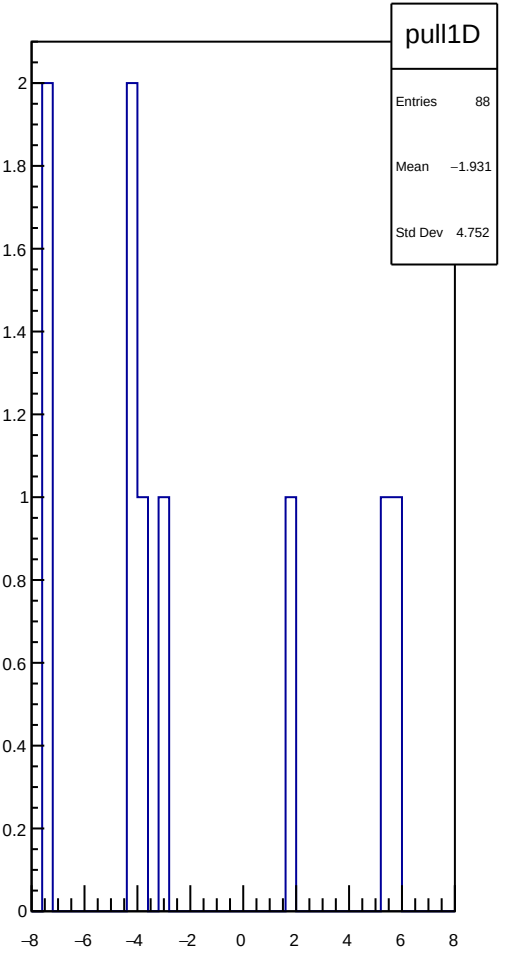

yield_dsl_rms vs run
χ² / ndf 7.838e+04 / 87
p0 0.05195 ± 4.089e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04

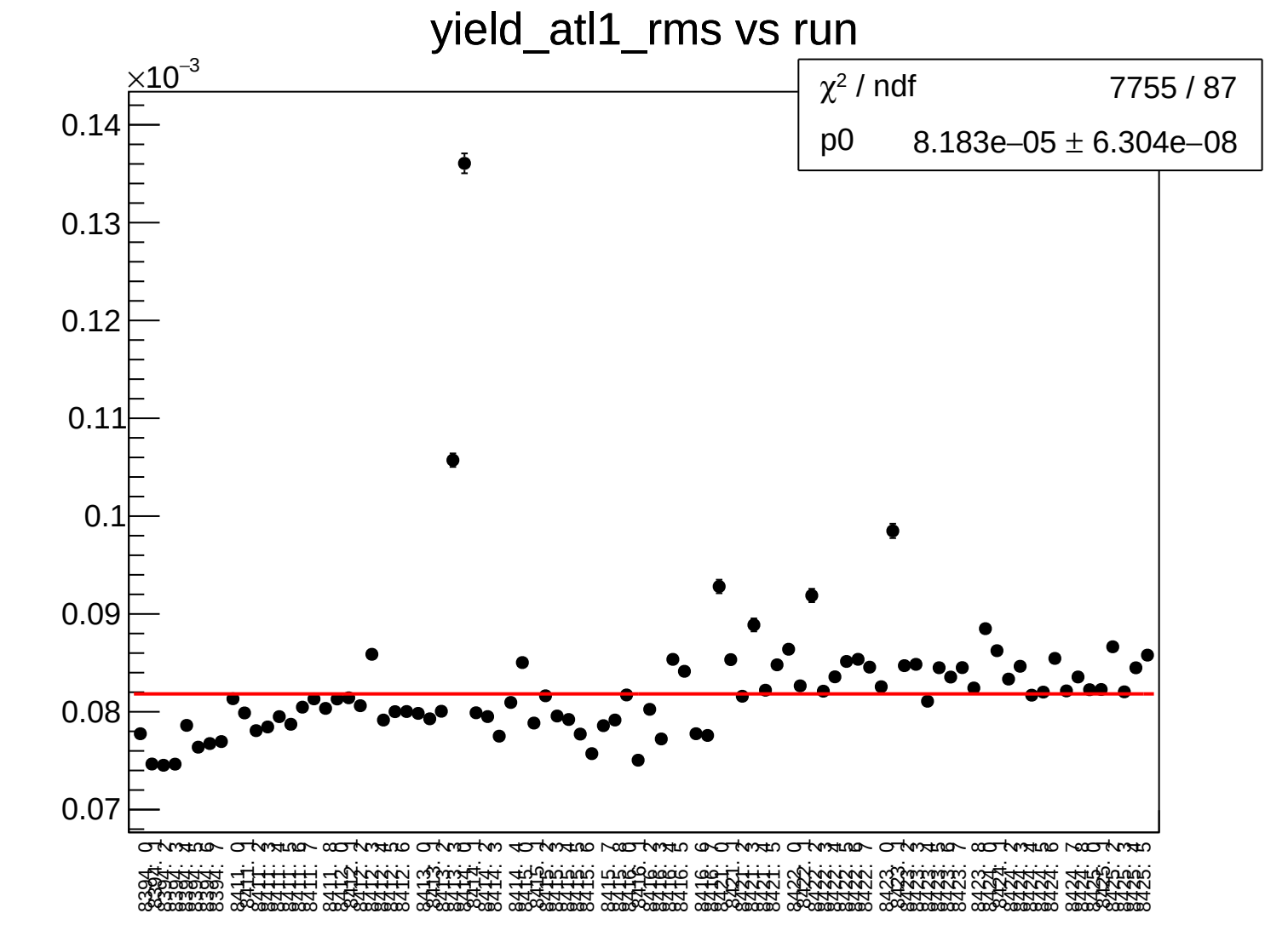

yield_dsr_mean vs run
χ² / ndf 1.616e+06 / 87
p0 −25.54 ± 5.436e−05
−25.4
−25.45
−25.5
−25.55
−25.6
−25.65
−25.7
pull
Entries 88
Mean 1279
Std Dev 0
300
200
100
0
−100
−200
−300

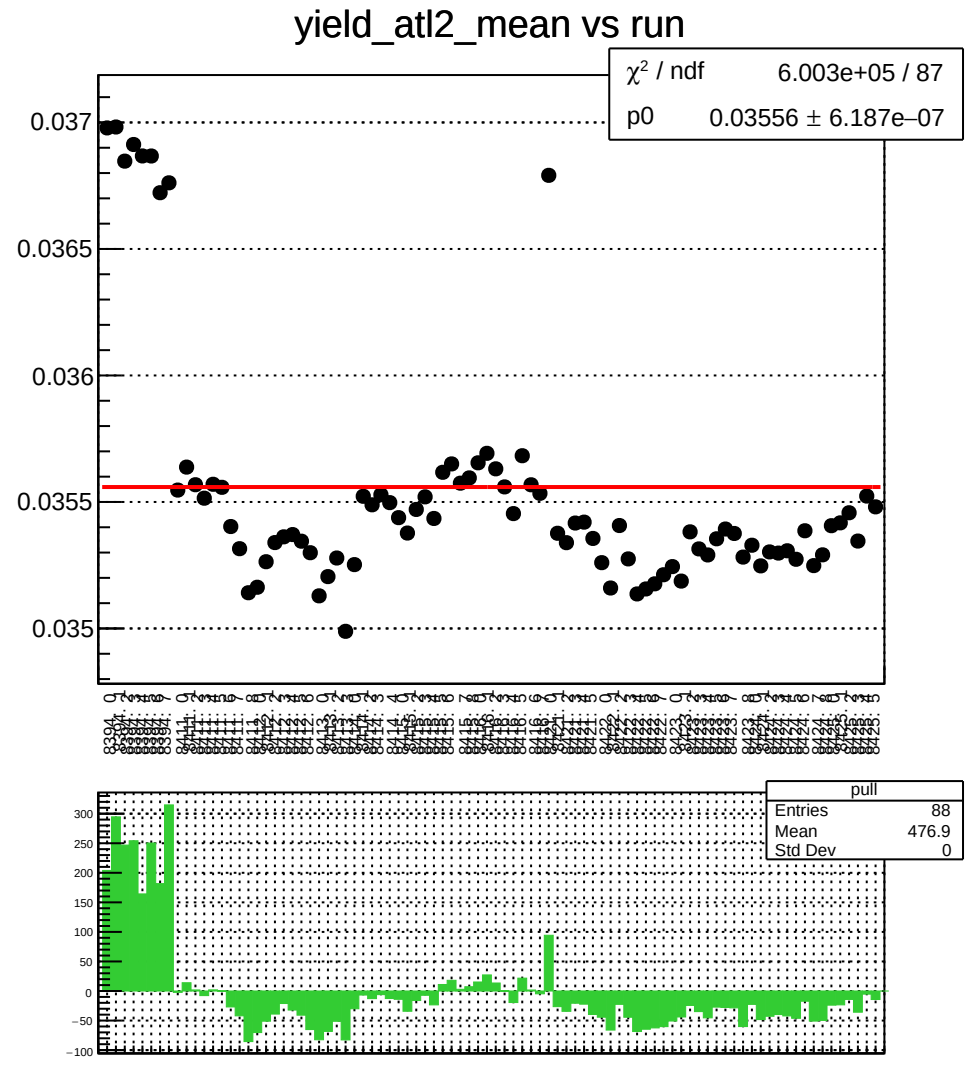

pull1D
Entries 88
Mean 2.129
Std Dev 3.437
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

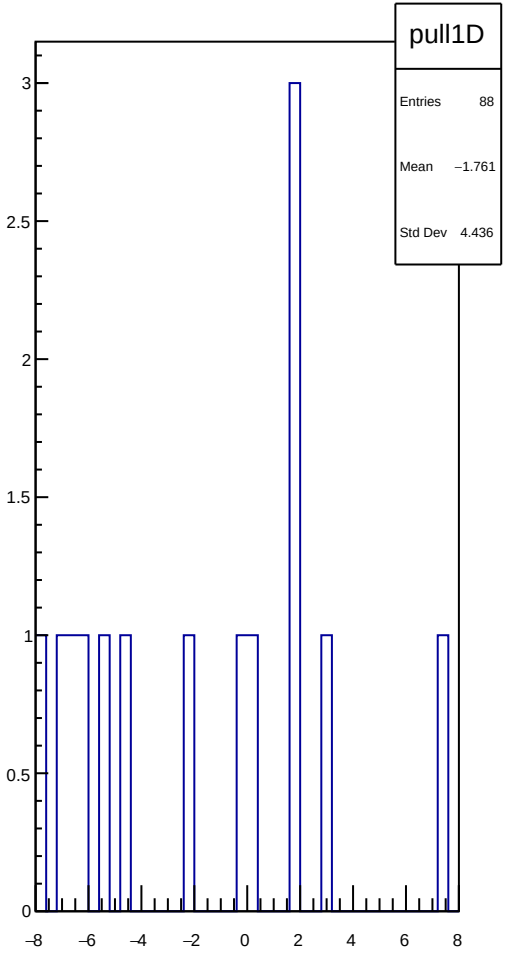

yield_dsr_rms vs run
χ² / ndf 2.692e+04 / 87
p0 0.04961 ± 3.843e–05
0.075
0.07
0.065
0.06
0.055
0.05
0.045
0.04

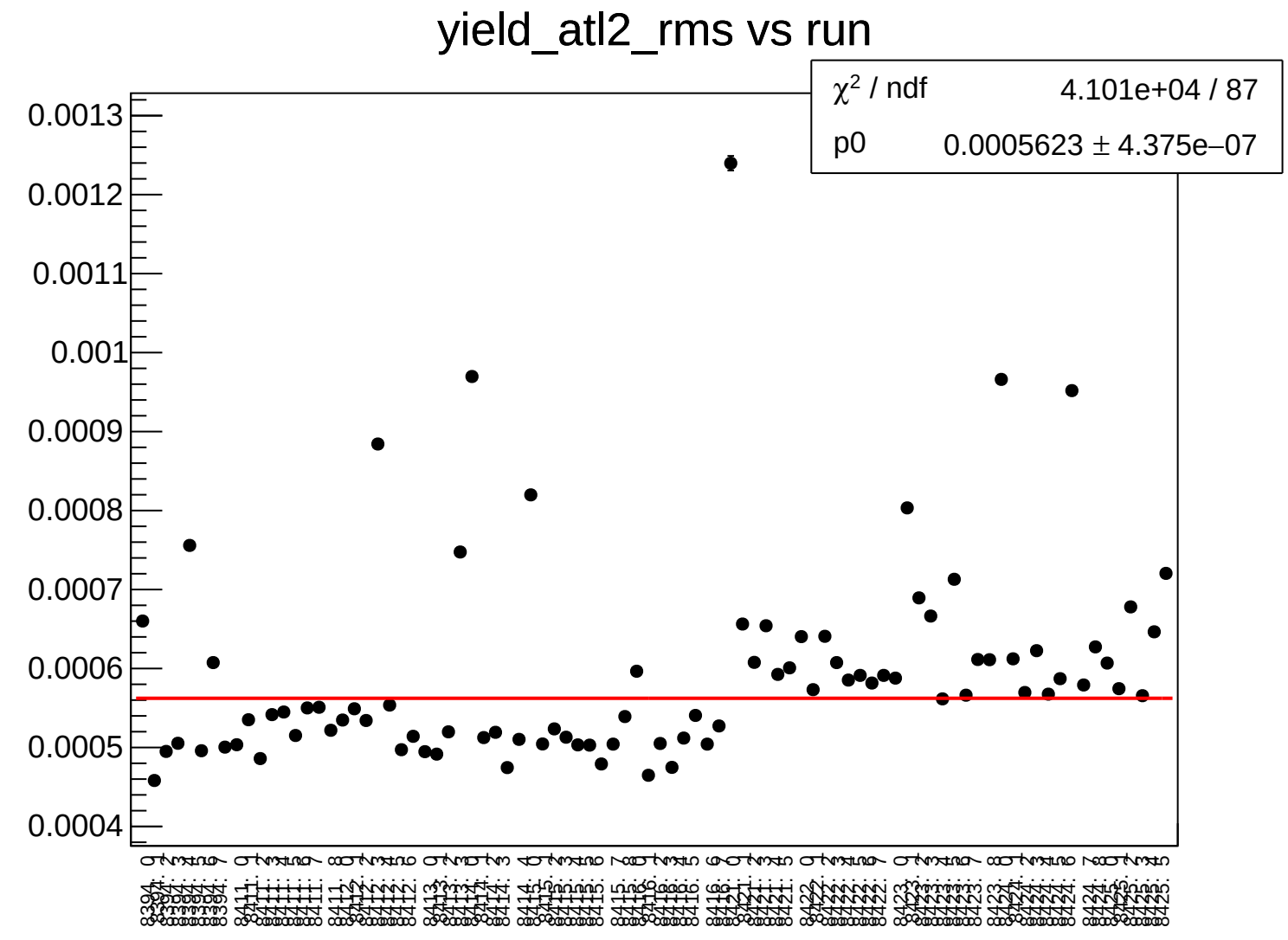

yield_atl1_mean vs run
χ² / ndf 2.193e+05 / 87
p0 0.02705 ± 8.915e−08
0.02718
0.02716
0.02714
0.02712
0.0271
0.02708
0.02706
0.02704
0.02702
0.027
0.02698
pull
Entries 88
Mean 447.4
Std Dev 0
150
100
50
0
−50

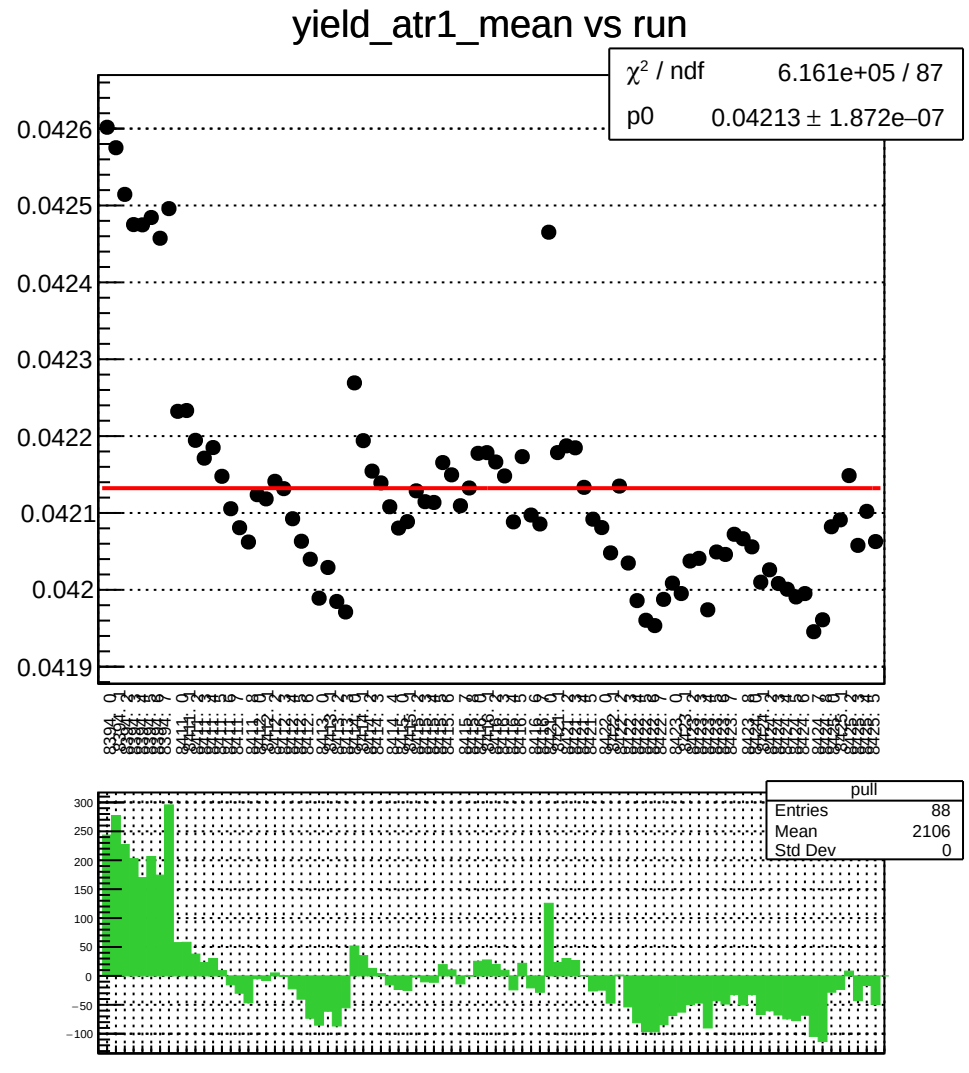

pull1D
Entries 88
Mean −1.931
Std Dev 4.752
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

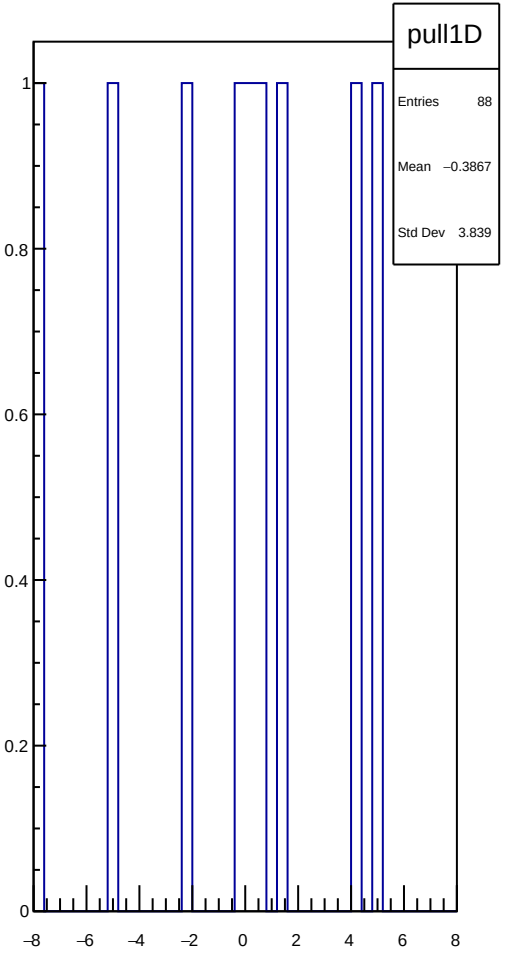

yield_atl1_rms vs run
×10⁻³
χ² / ndf 7755 / 87
p0 8.183e−05 ± 6.304e−08
0.14
0.13
0.12
0.11
0.1
0.09
0.08
0.07

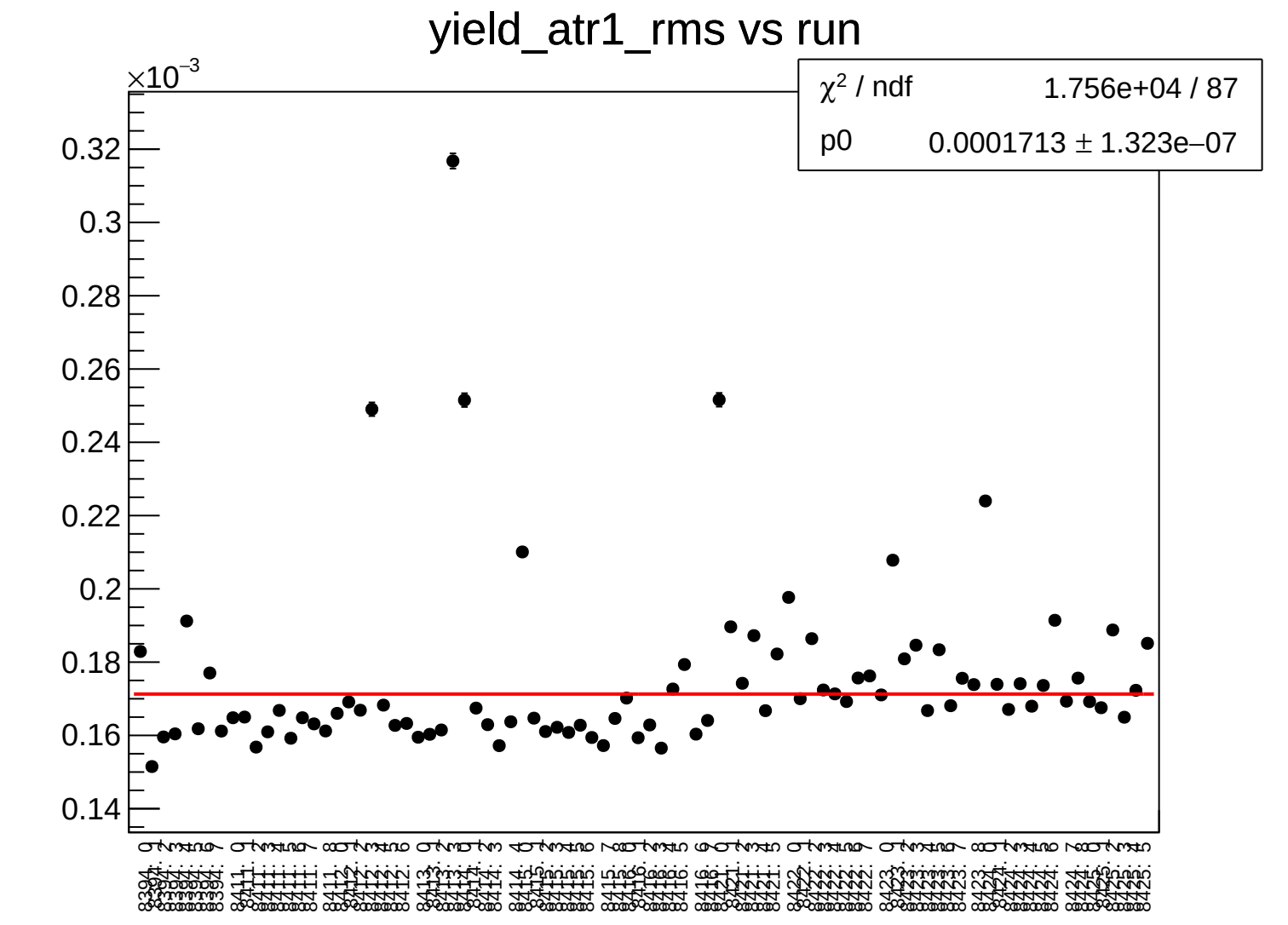

yield_atl2_mean vs run
χ² / ndf 6.003e+05 / 87
p0 0.03556 ± 6.187e−07
0.037
0.0365
0.036
0.0355
0.035
pull
Entries 88
Mean 476.9
Std Dev 0
300
250
200
150
100
50
0
−50
−100

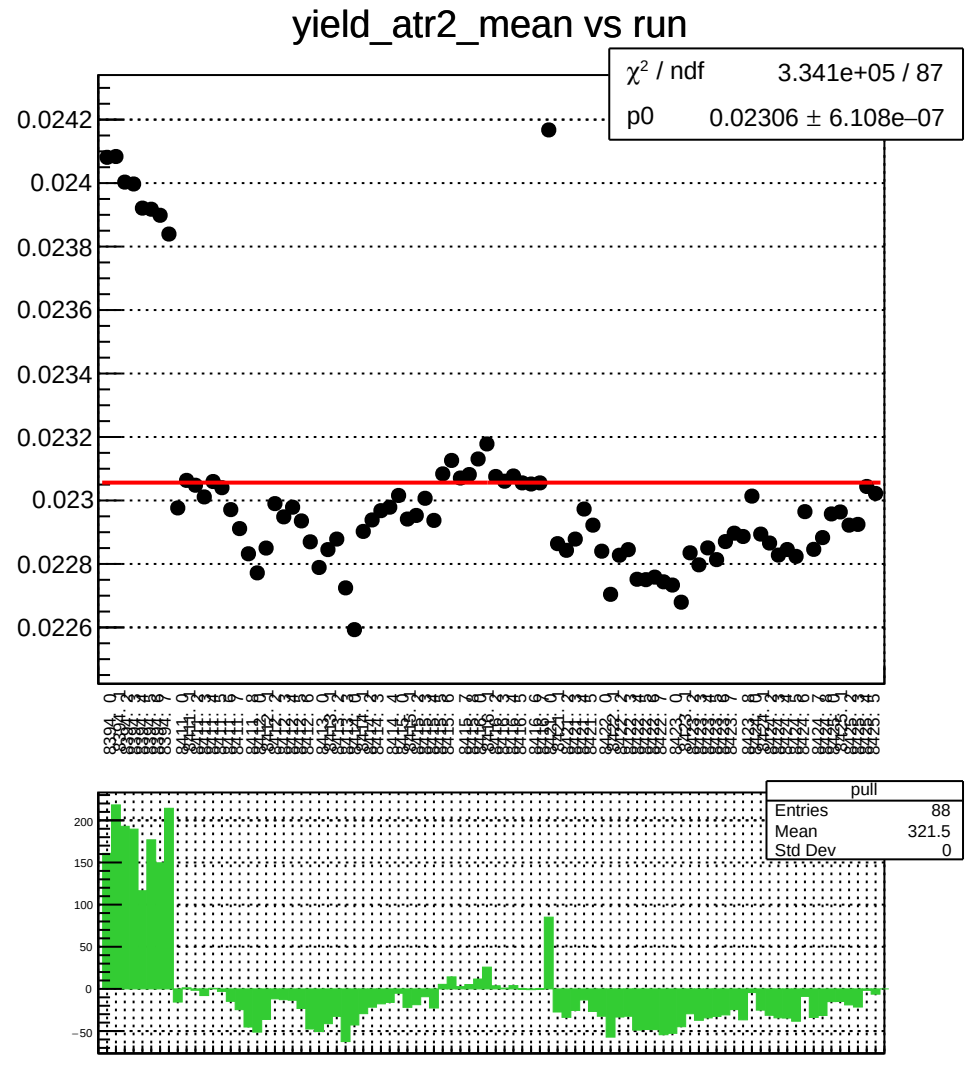

pull1D
Entries 88
Mean −1.761
Std Dev 4.436
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

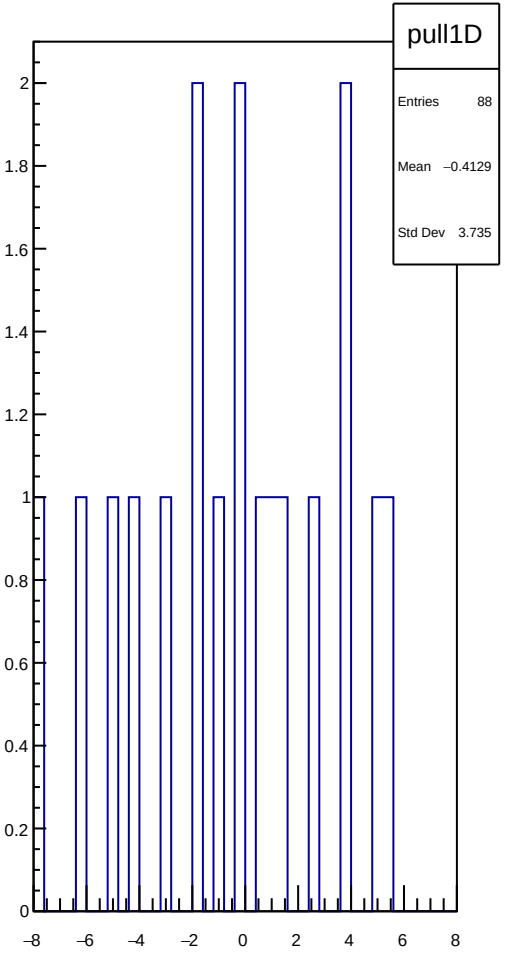

yield_atl2_rms vs run
χ² / ndf 4.101e+04 / 87
p0 0.0005623 ± 4.375e−07
0.0013
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004

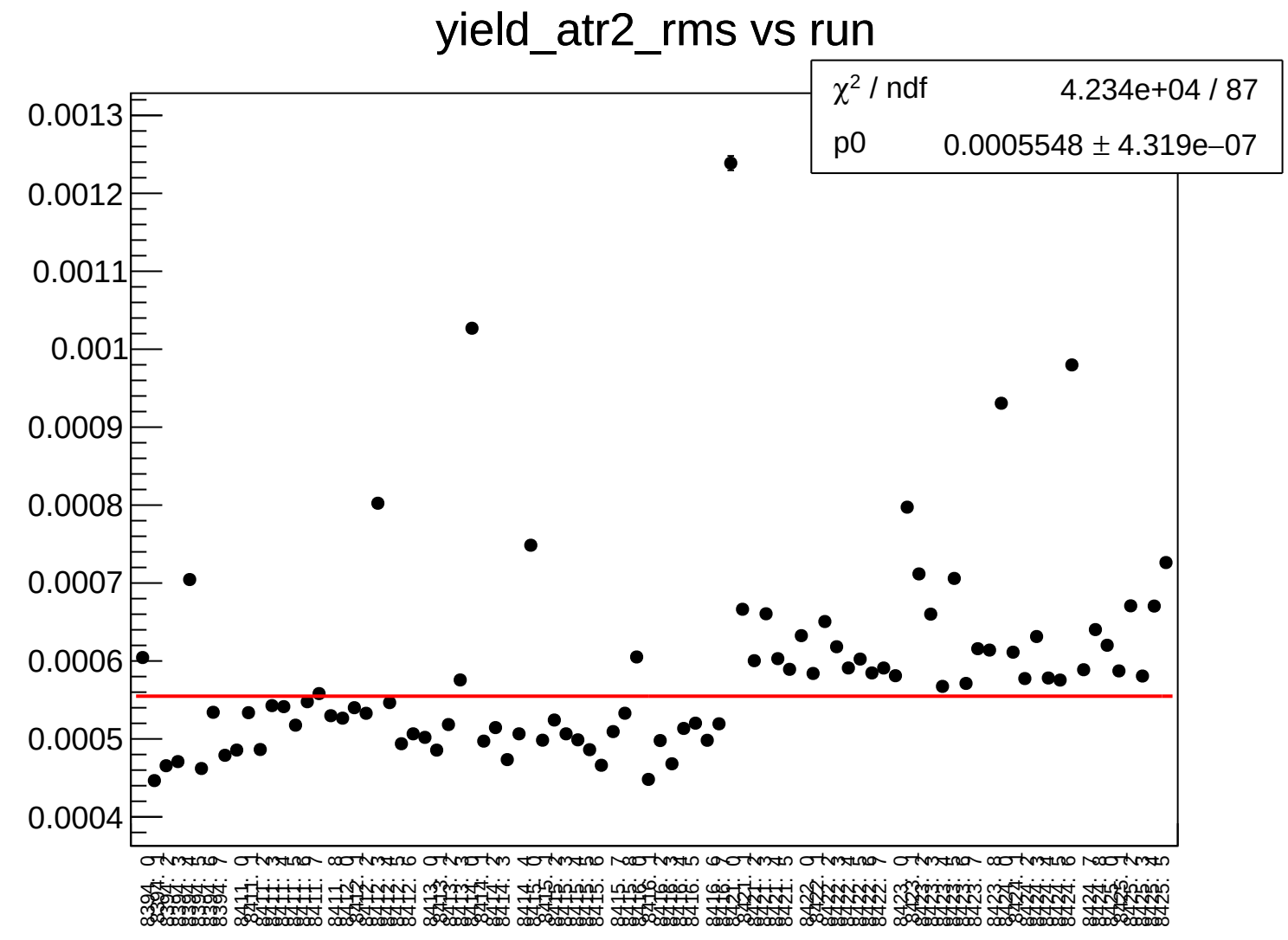

yield_atr1_mean vs run
χ² / ndf 6.161e+05 / 87
p0 0.04213 ± 1.872e−07
0.0426
0.0425
0.0424
0.0423
0.0422
0.0421
0.042
0.0419
pull
Entries 88
Mean 2106
Std Dev 0
300
250
200
150
100
50
0
−50
−100

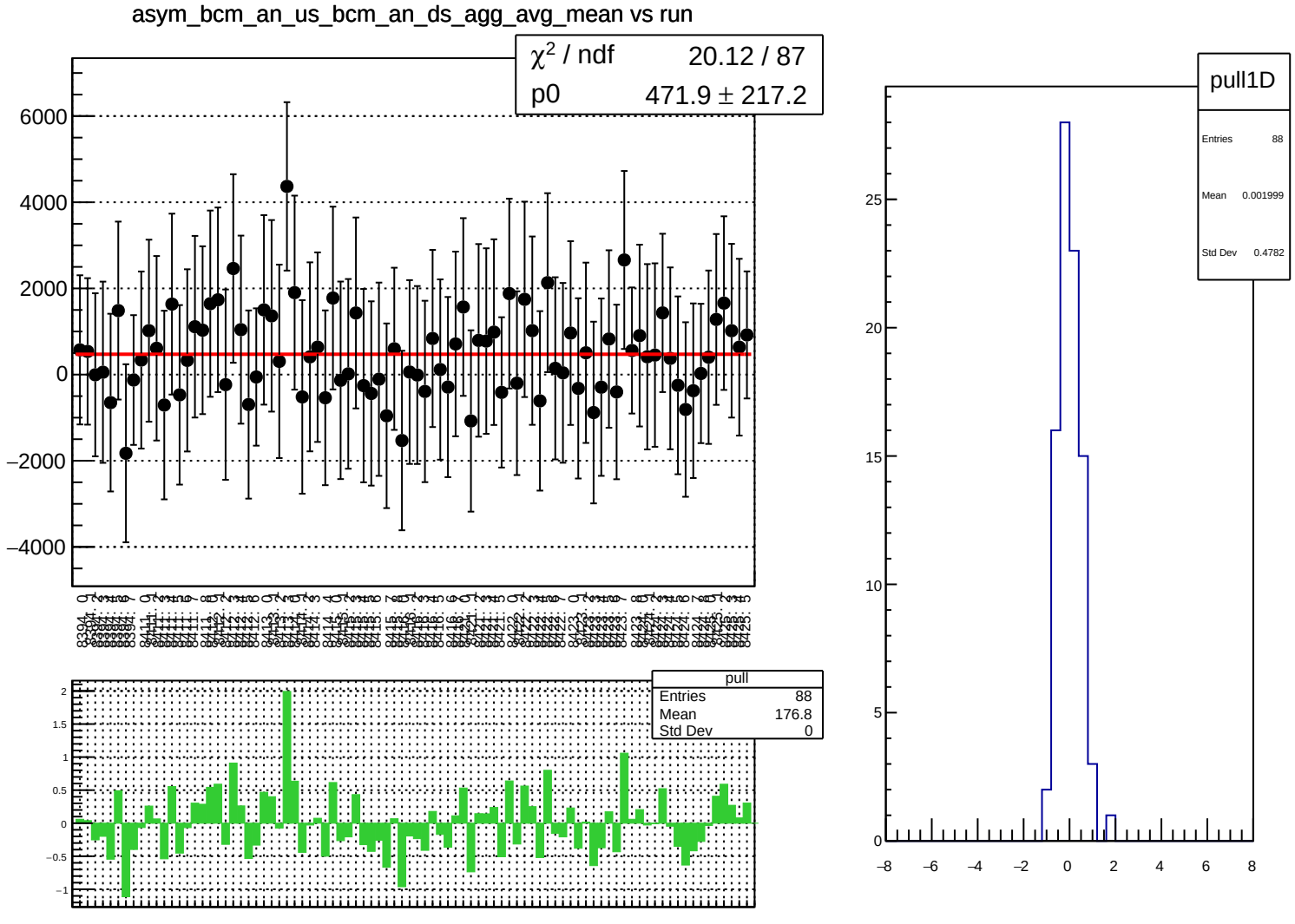

pull1D
Entries 88
Mean −0.3867
Std Dev 3.839
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

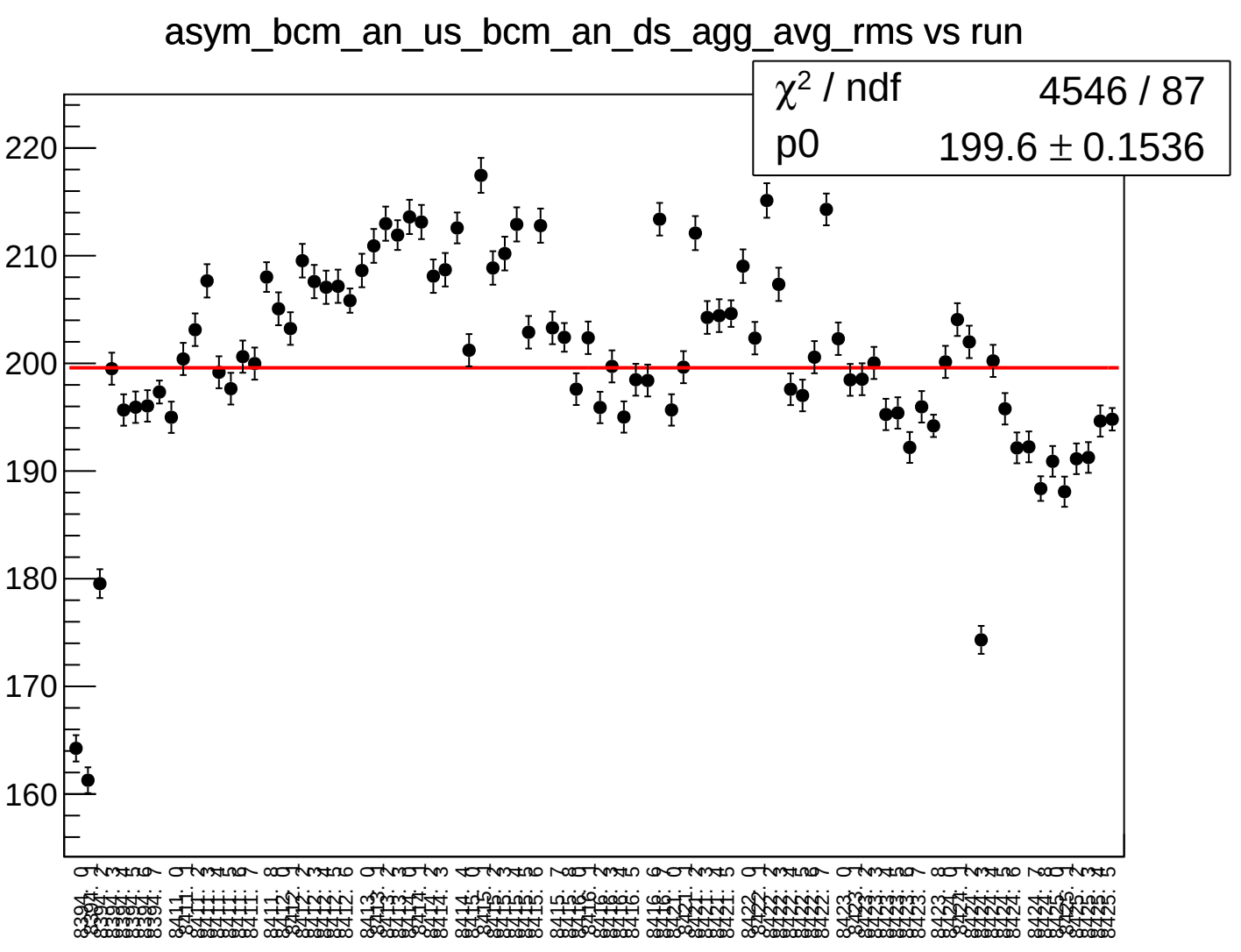

yield_atr1_rms vs run
×10⁻³
χ² / ndf 1.756e+04 / 87
p0 0.0001713 ± 1.323e−07
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14

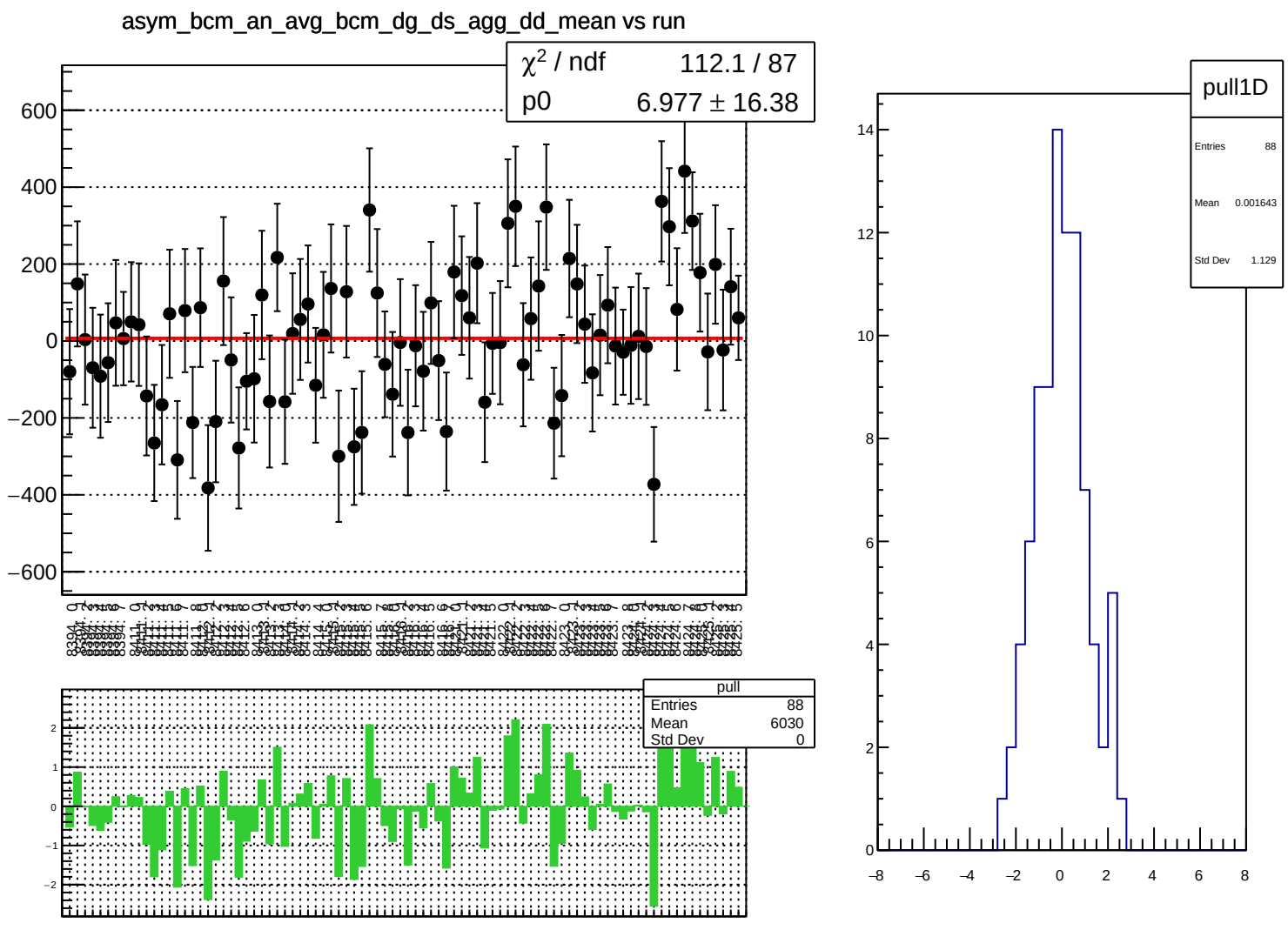

yield_atr2_mean vs run
χ² / ndf 3.341e+05 / 87
p0 0.02306 ± 6.108e−07
0.0242
0.024
0.0238
0.0236
0.0234
0.0232
0.023
0.0228
0.0226
pull
Entries 88
Mean 321.5
Std Dev 0
200
150
100
50
0
−50

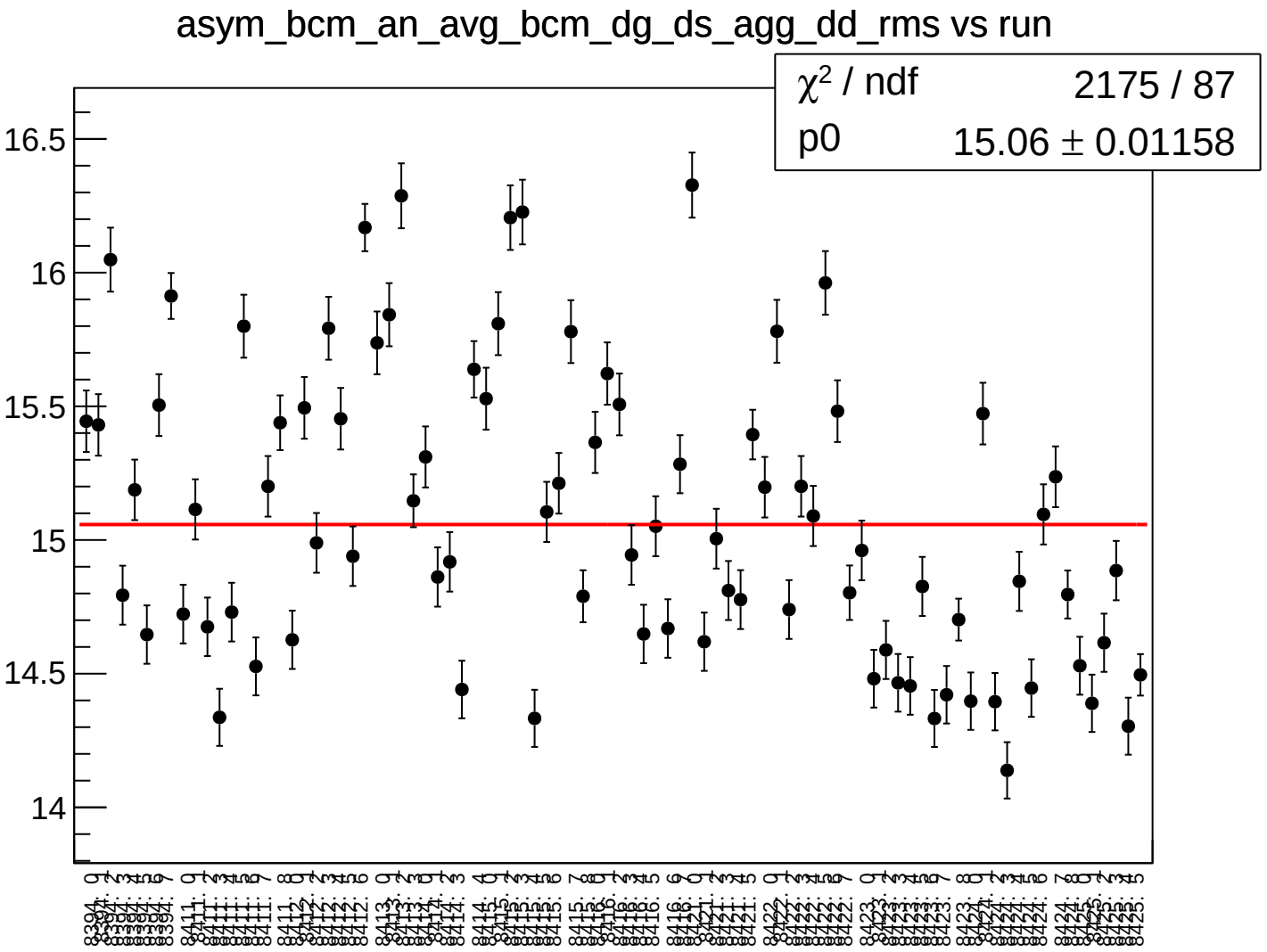

pull1D
Entries 88
Mean −0.4129
Std Dev 3.735
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

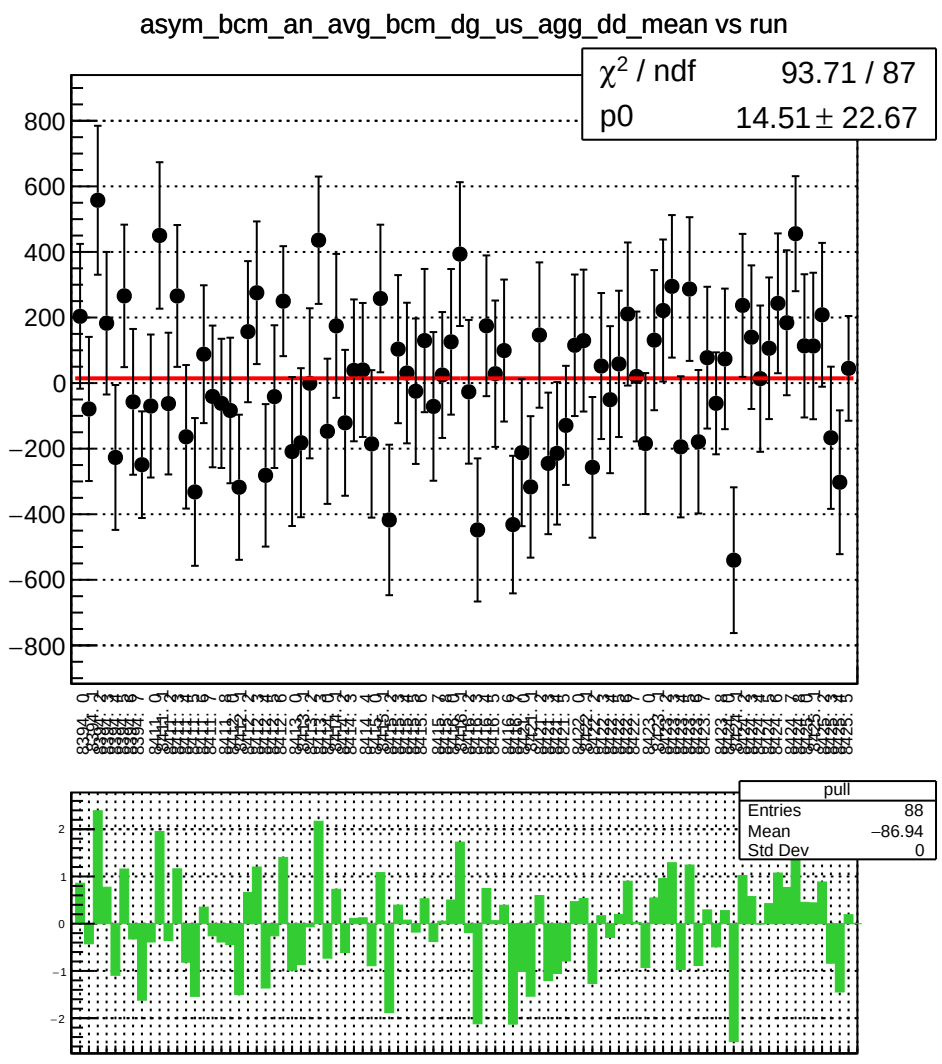

yield_atr2_rms vs run
χ² / ndf 4.234e+04 / 87
p0 0.0005548 ± 4.319e−07
0.0013
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004

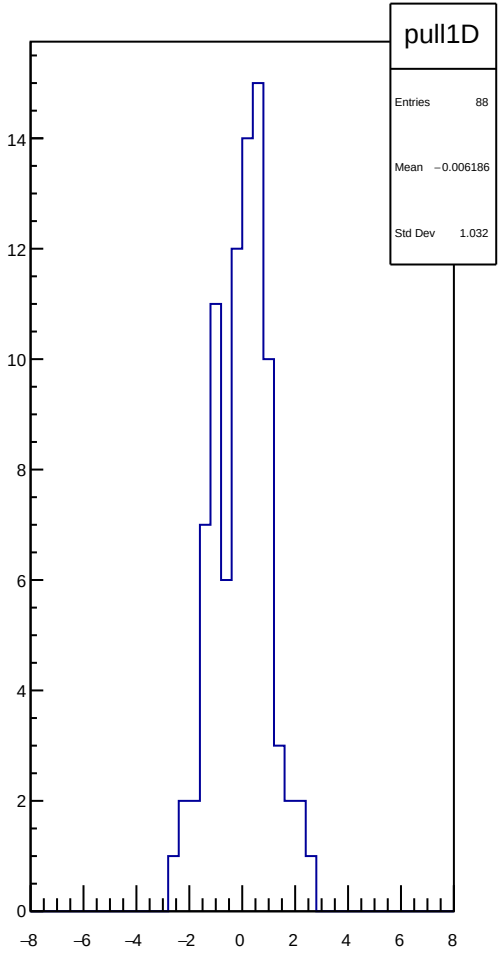

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 20.12 / 87
p0 471.9 ± 217.2
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 176.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.001999
Std Dev 0.4782
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

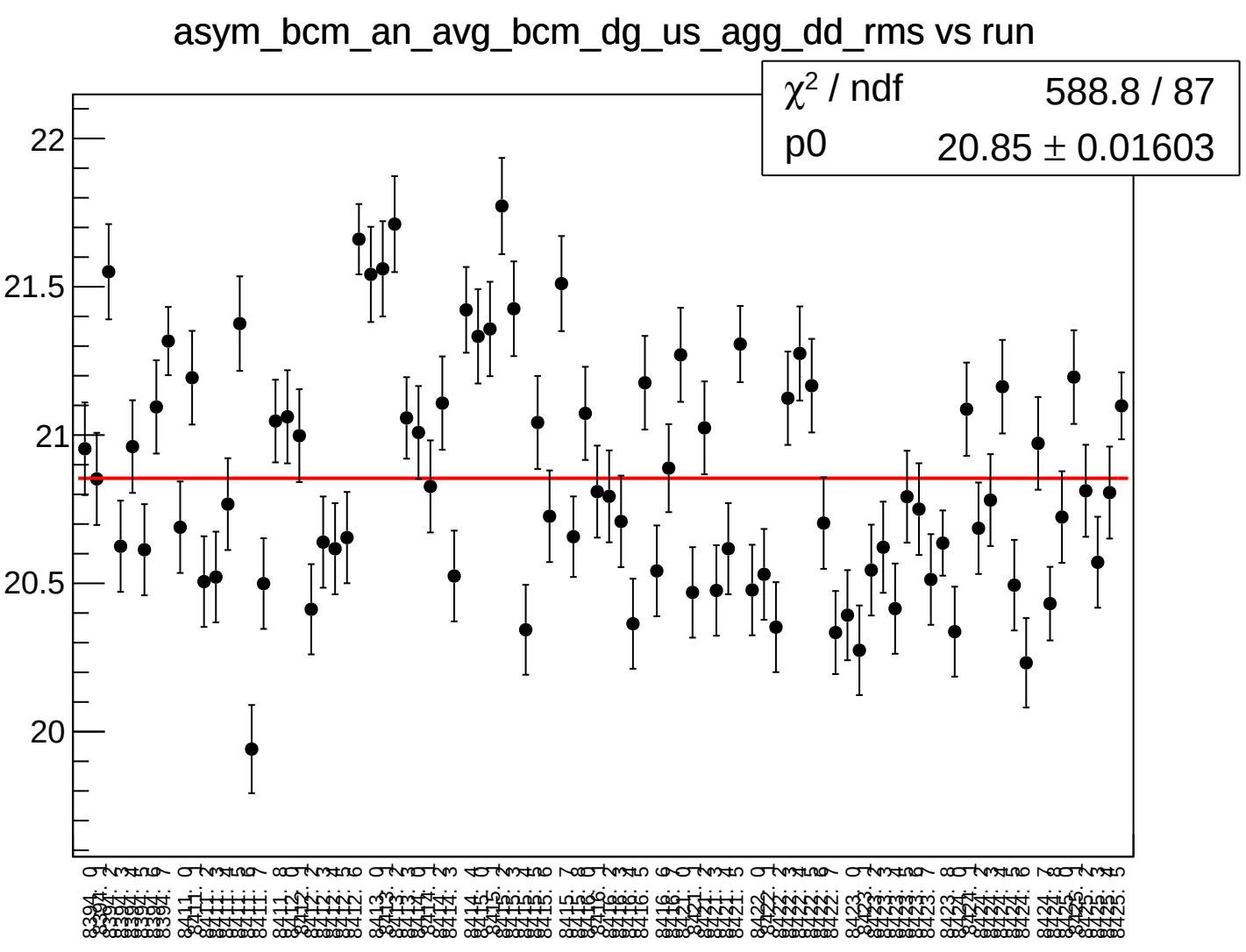

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4546 / 87
p0 199.6 ± 0.1536
220
210
200
190
180
170
160

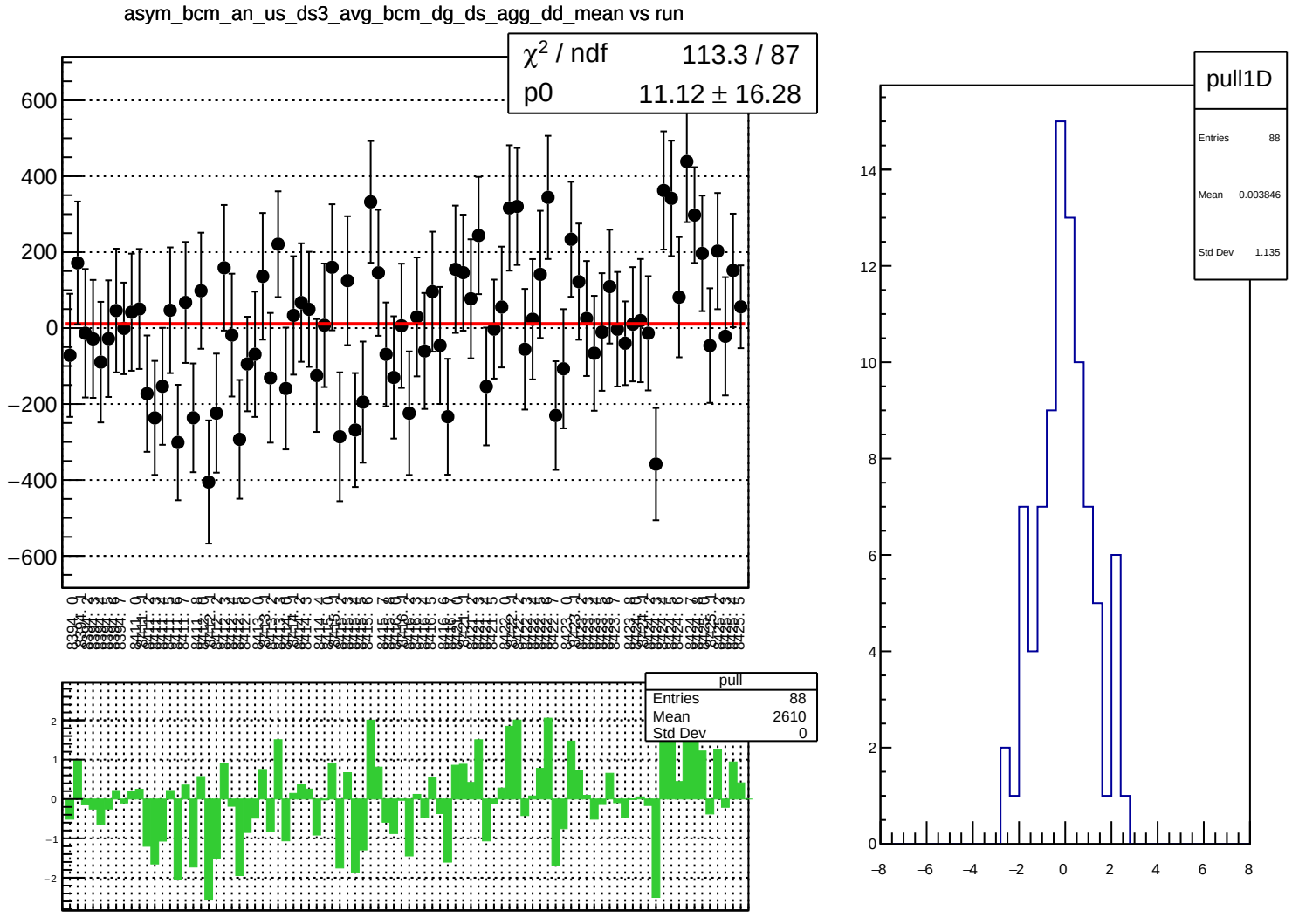

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 112.1 / 87
p0 6.977 ± 16.38
600
400
200
0
−200
−400
−600
pull
Entries 88
Mean 6030
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.001643
Std Dev 1.129
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

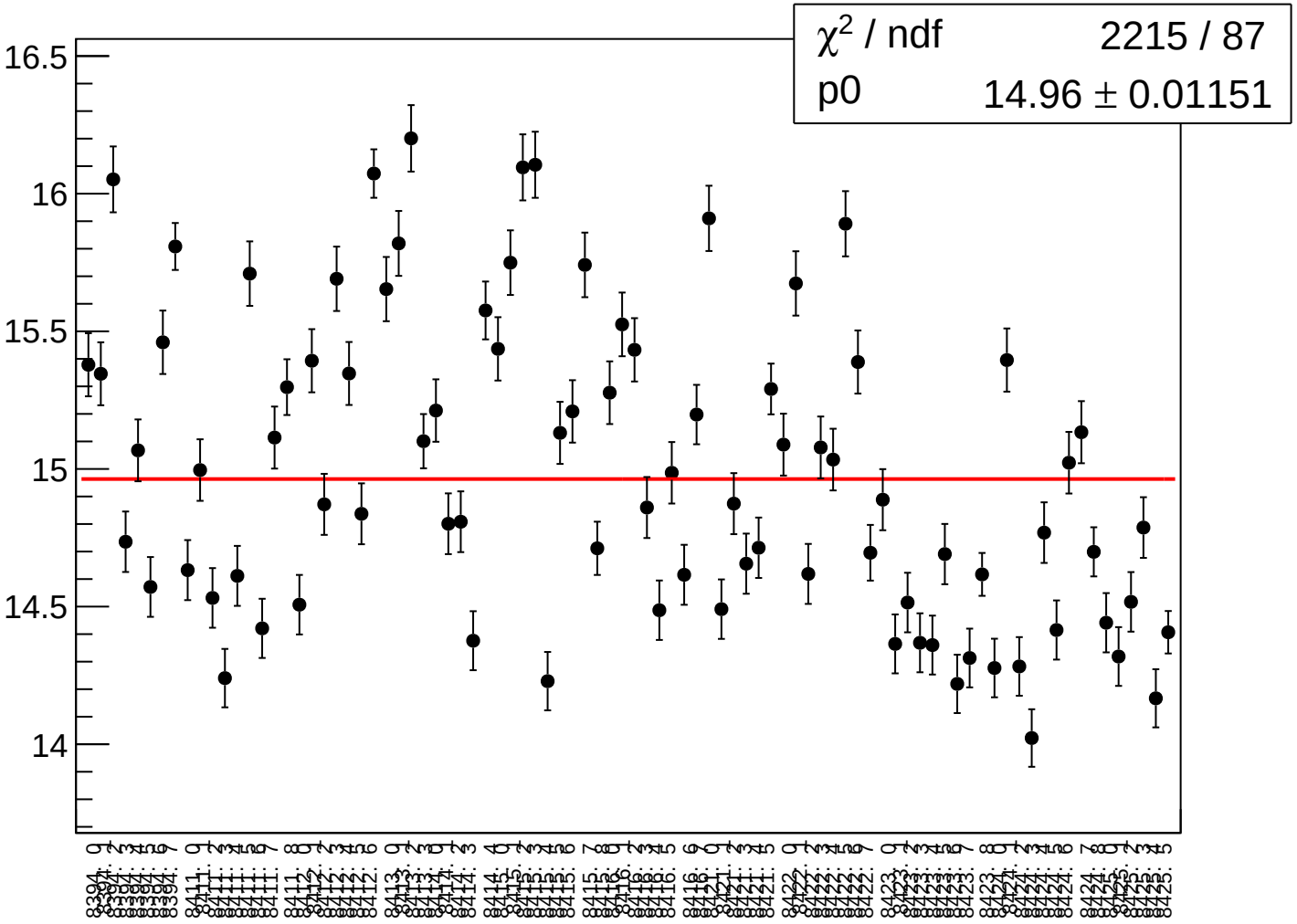

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2175 / 87
p0 15.06 ± 0.01158
16.5
16
15.5
15
14.5
14

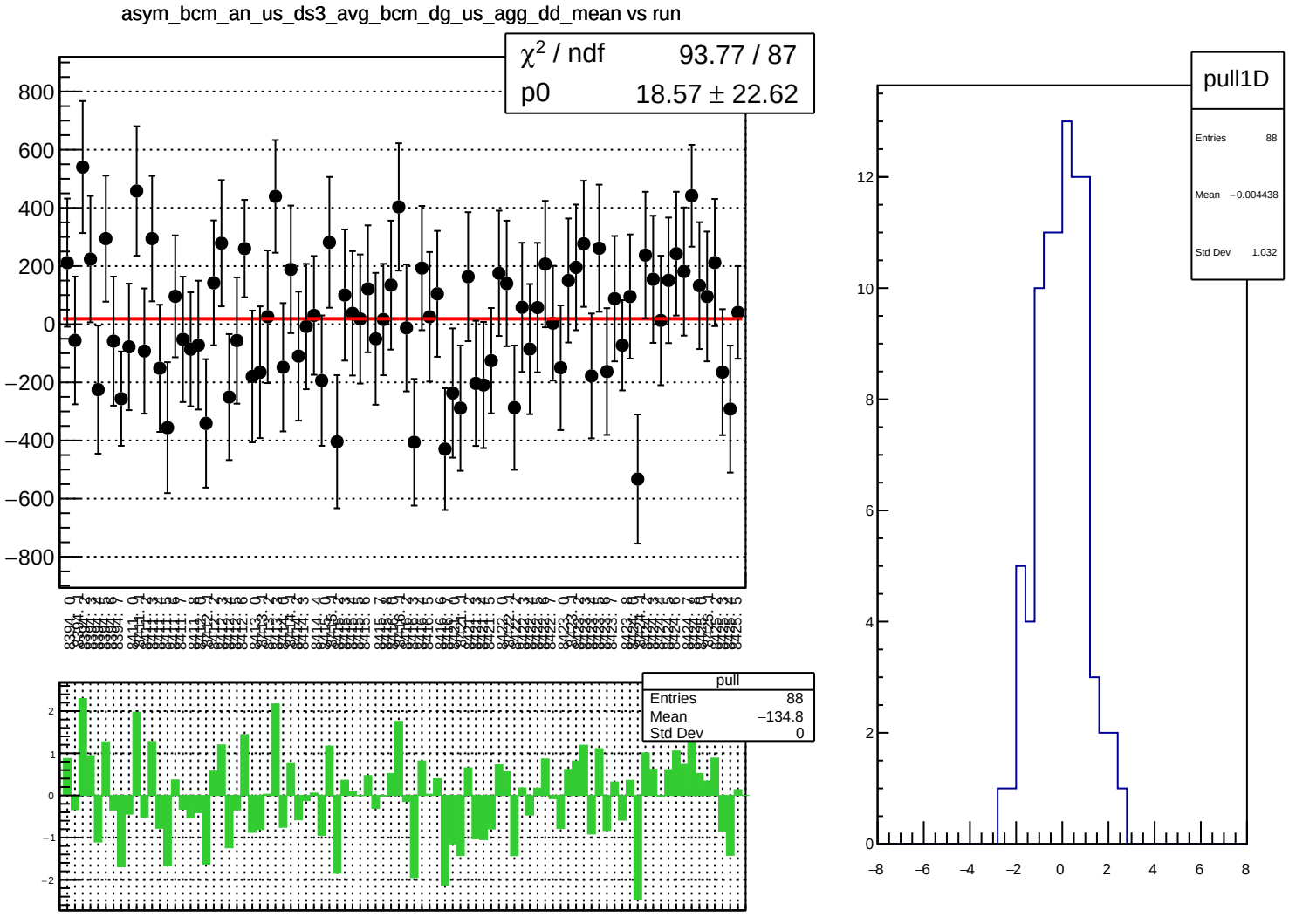

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 93.71 / 87
p0 14.51 ± 22.67
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 88
Mean −86.94
Std Dev 0
2
1
0
−1
−2

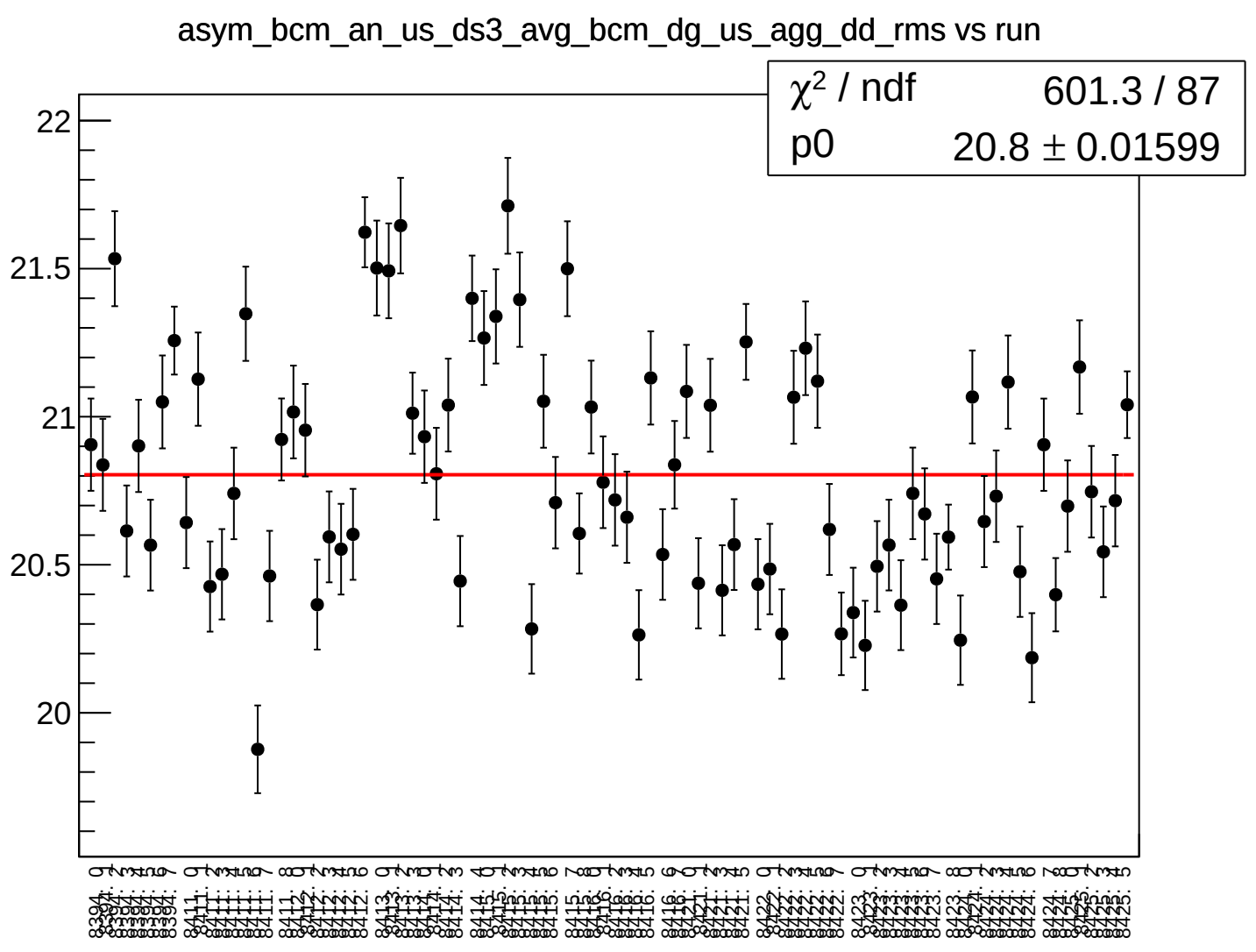

pull1D
Entries 88
Mean −0.006186
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

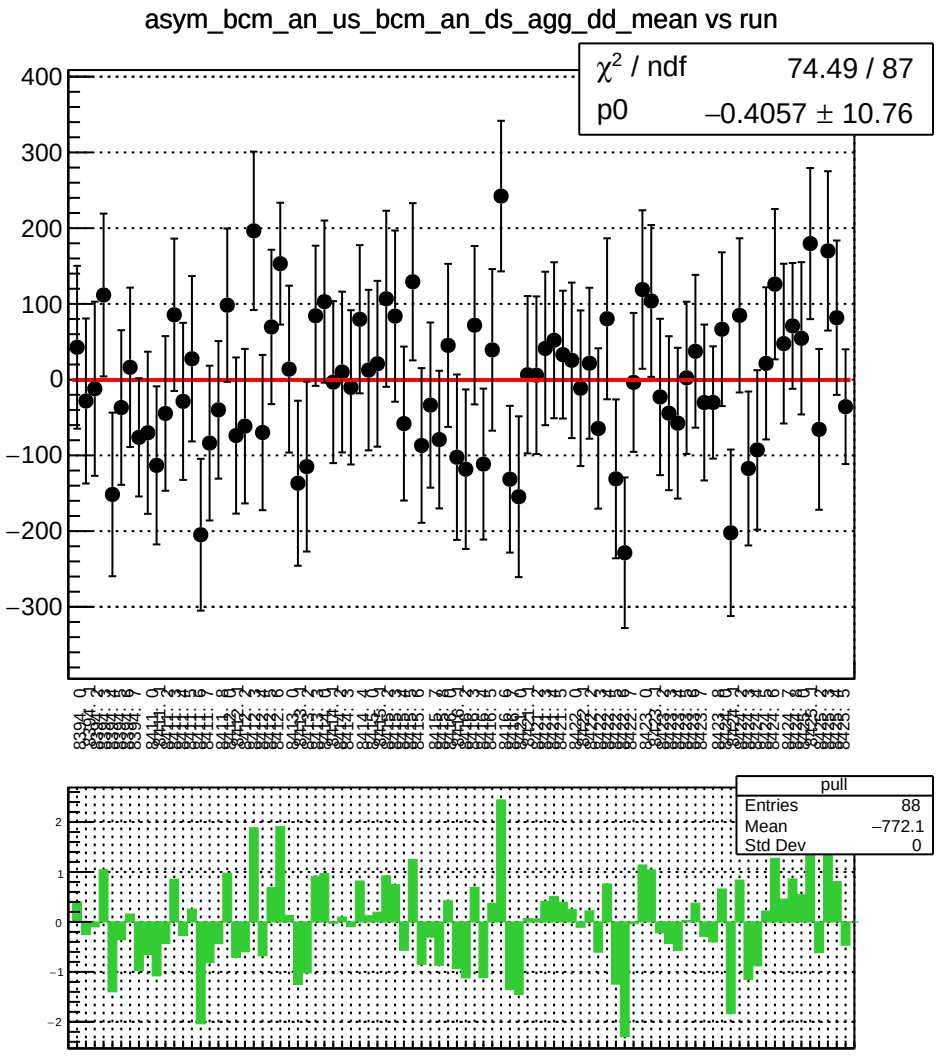

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 588.8 / 87
p0 20.85 ± 0.01603
22
21.5
21
20.5
20

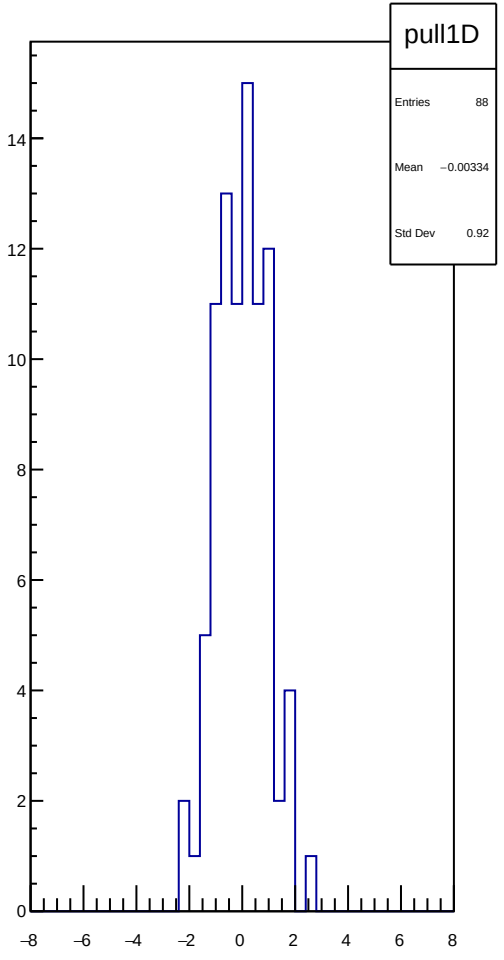

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 113.3 / 87
p0 11.12 ± 16.28
600
400
200
0
−200
−400
−600
pull
Entries 88
Mean 2610
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.003846
Std Dev 1.135
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

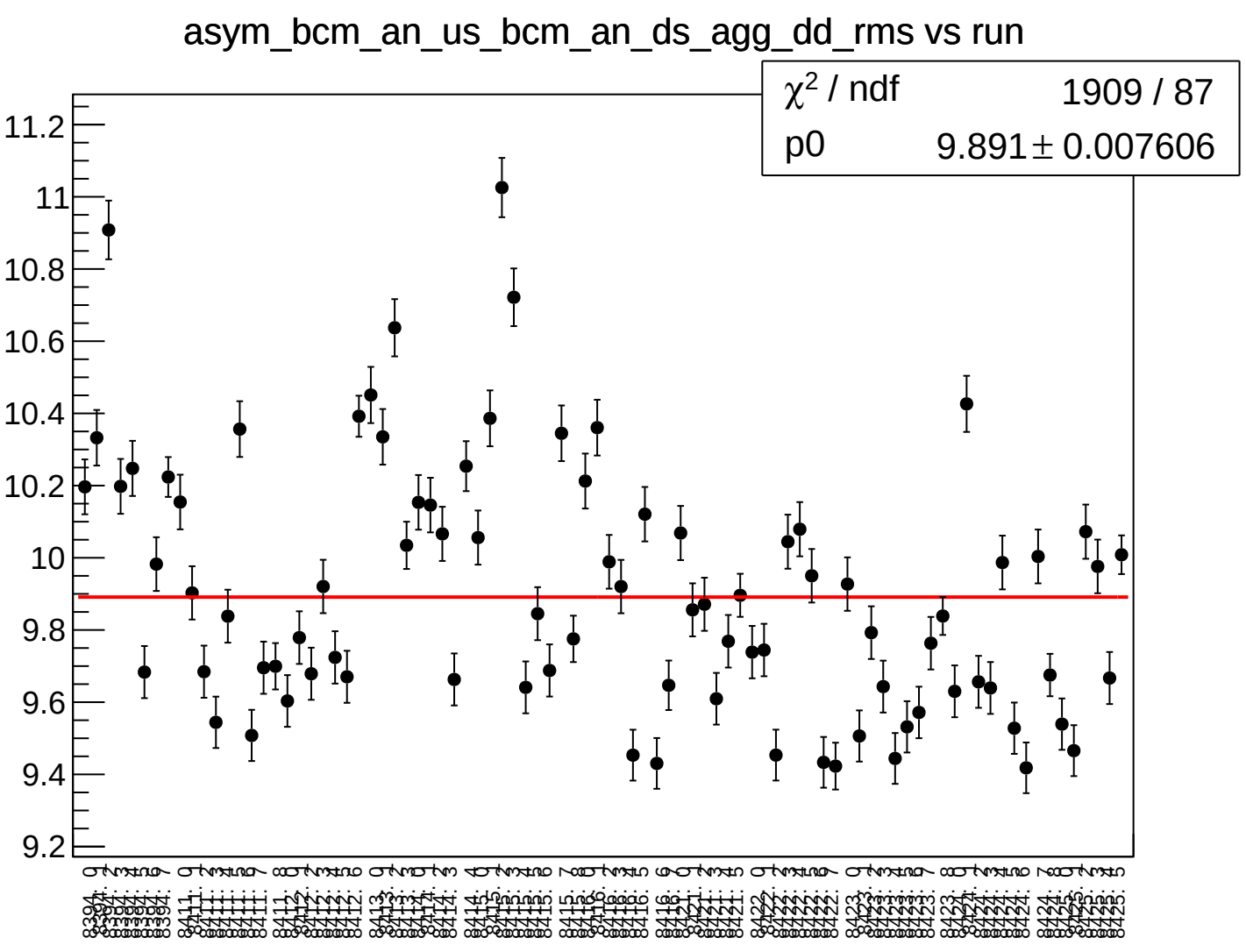

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2215 / 87
p0 14.96 ± 0.01151
16.5
16
15.5
15
14.5
14

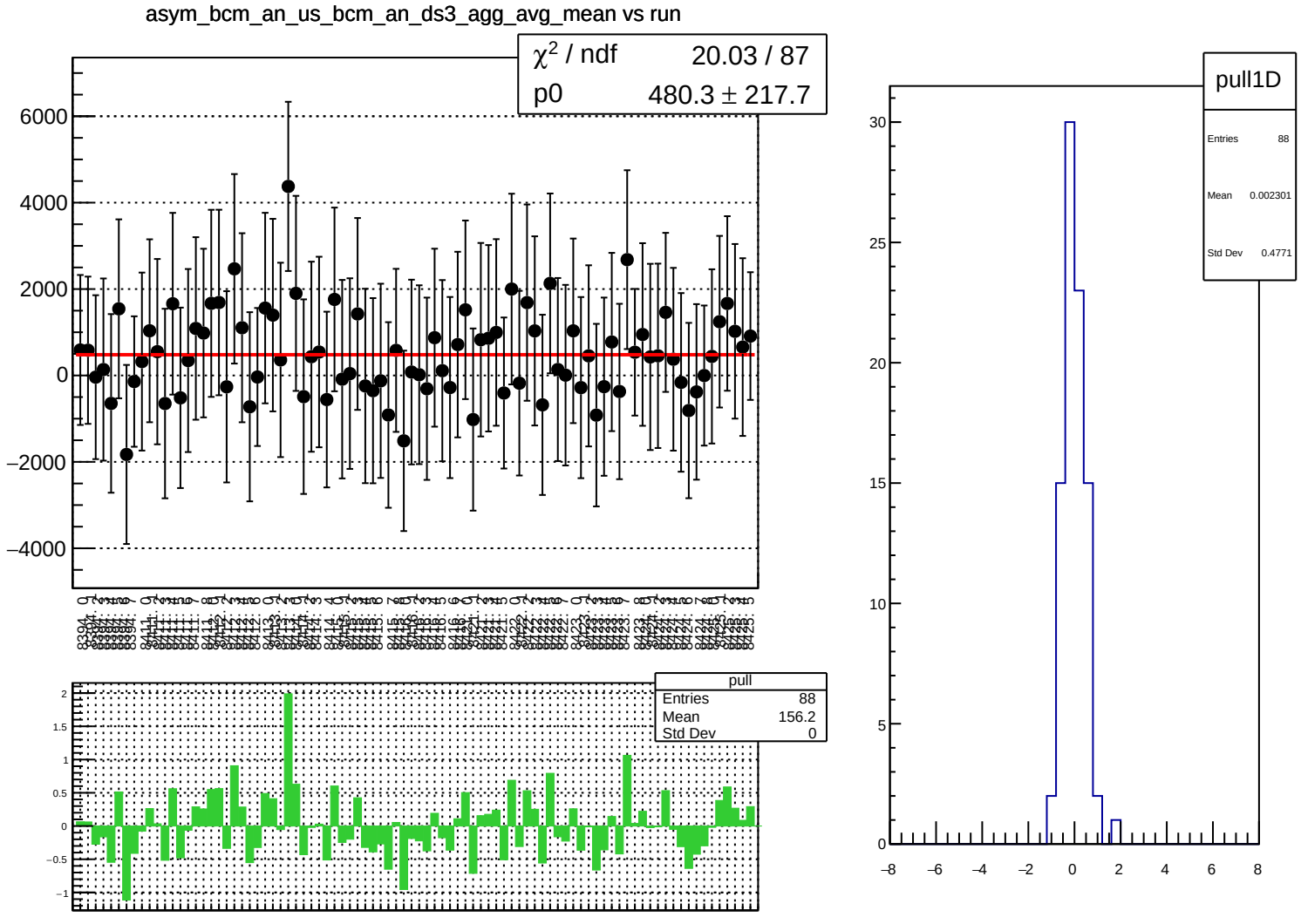

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 93.77 / 87
p0 18.57 ± 22.62
pull
Entries 88
Mean −134.8
Std Dev 0
pull1D
Entries 88
Mean −0.004438
Std Dev 1.032

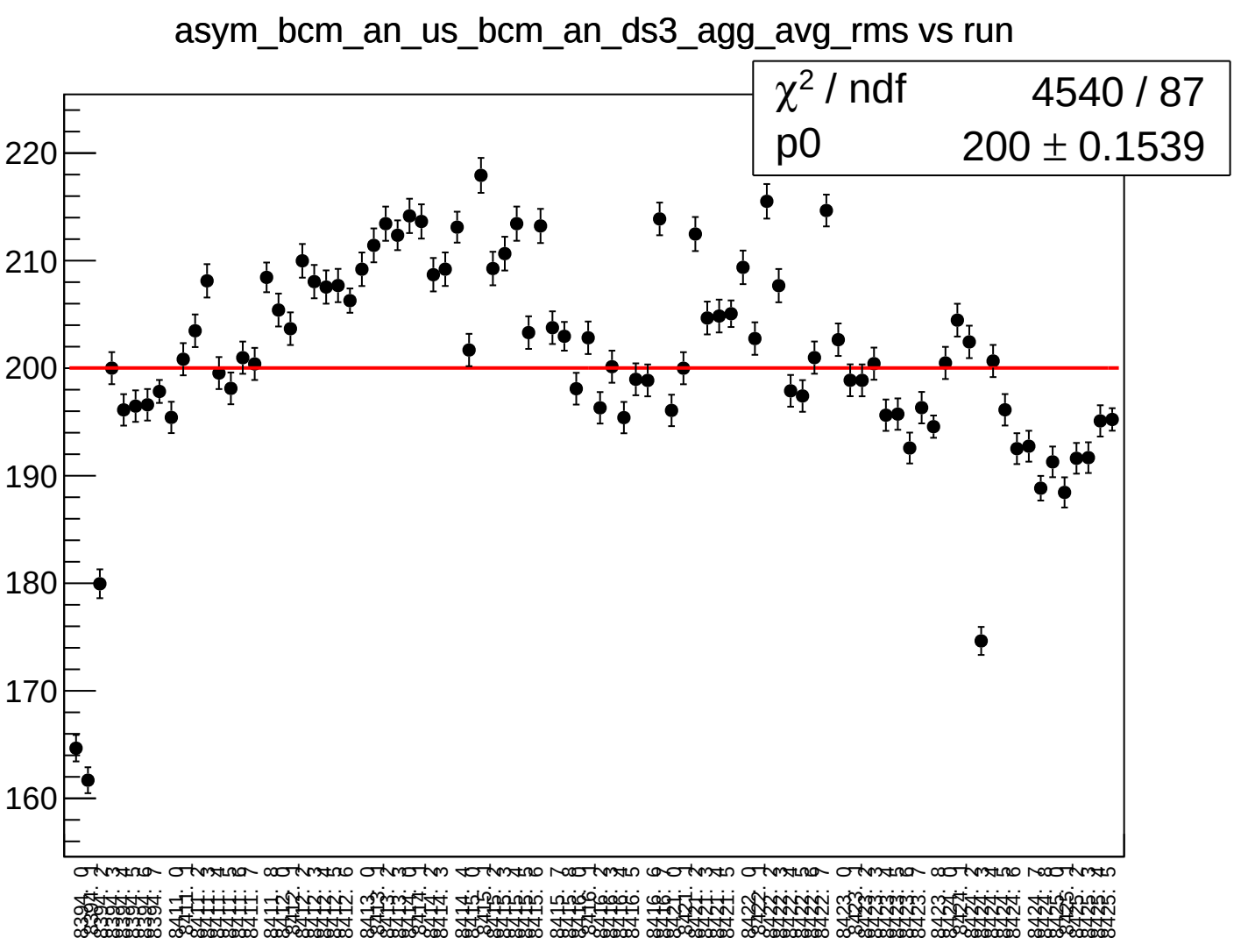

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 601.3 / 87
p0 20.8 ± 0.01599
22
21.5
21
20.5
20

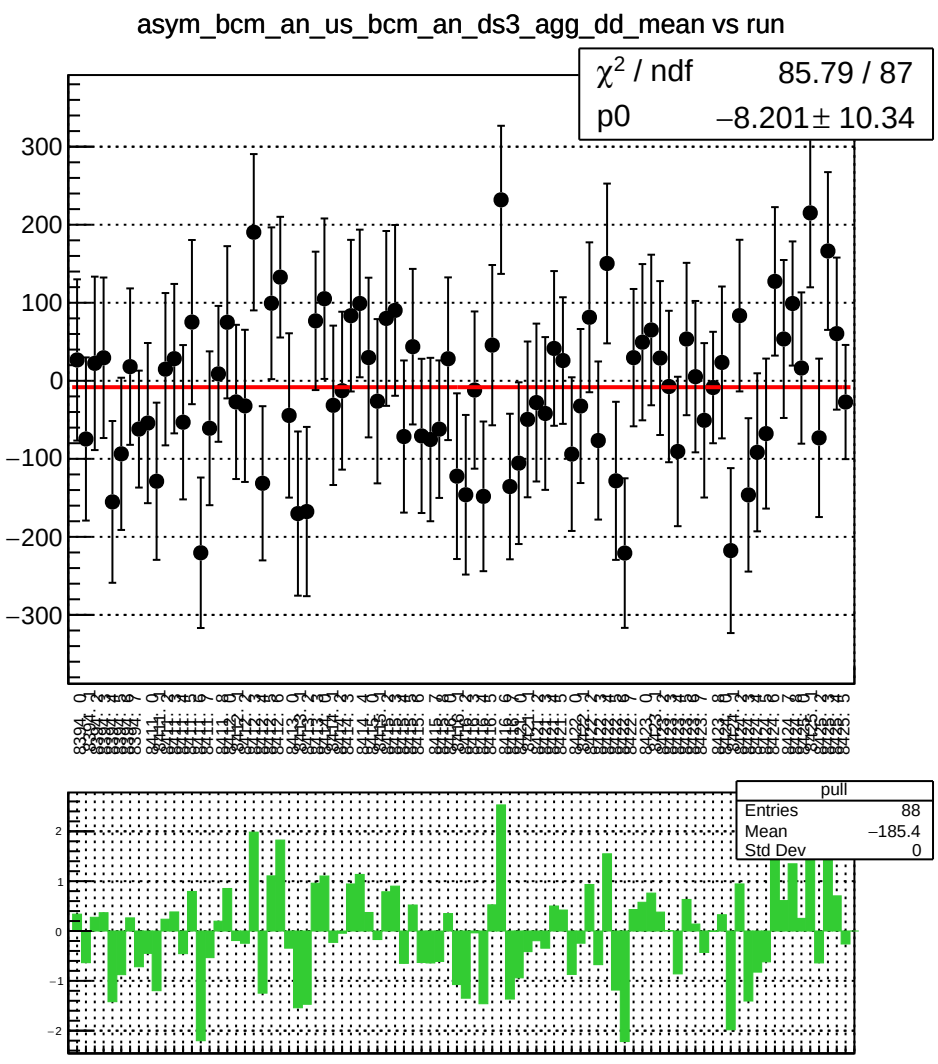

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 74.49 / 87
p0 −0.4057 ± 10.76
pull
Entries 88
Mean −772.1
Std Dev 0

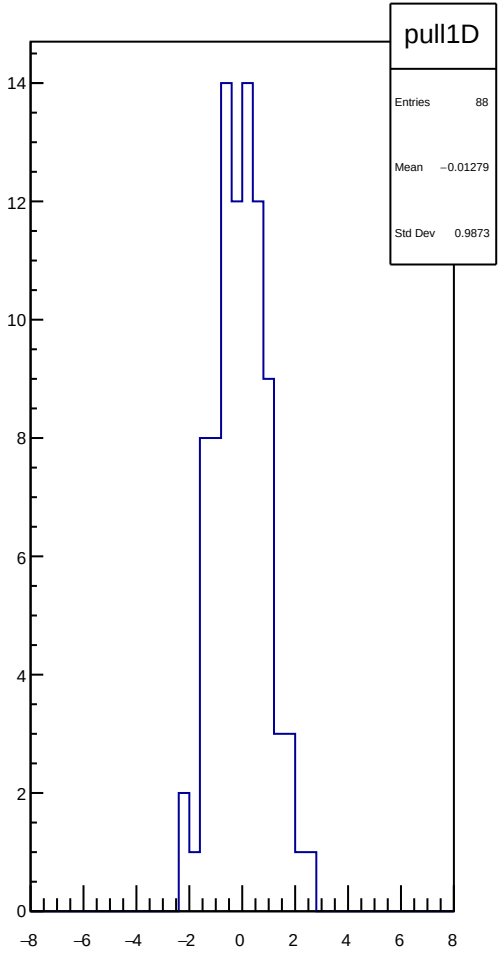

pull1D
Entries 88
Mean −0.00334
Std Dev 0.92

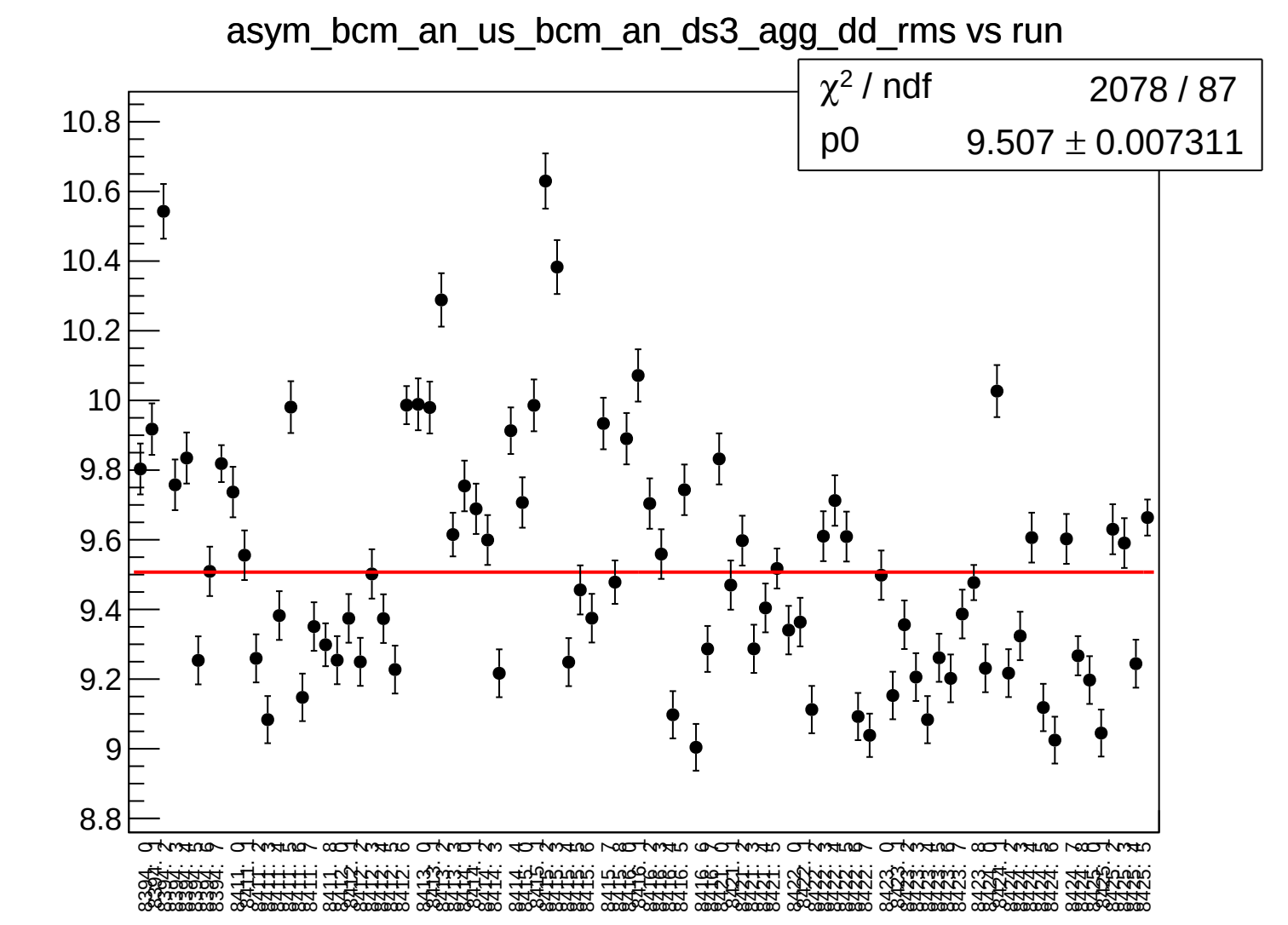

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1909 / 87
p0 9.891 ± 0.007606
11.2
11
10.8
10.6
10.4
10.2
10
9.8
9.6
9.4
9.2

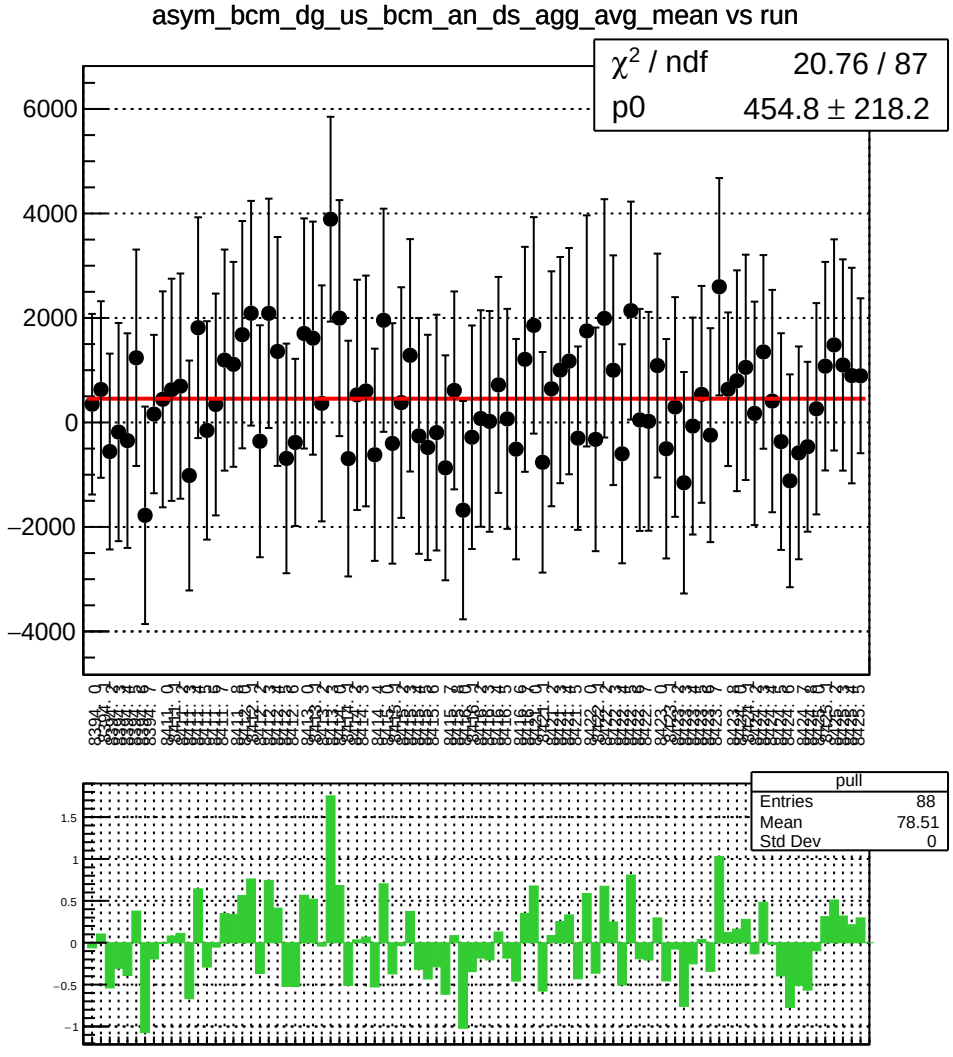

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 20.03 / 87
p0 480.3 ± 217.7
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 156.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.002301
Std Dev 0.4771
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

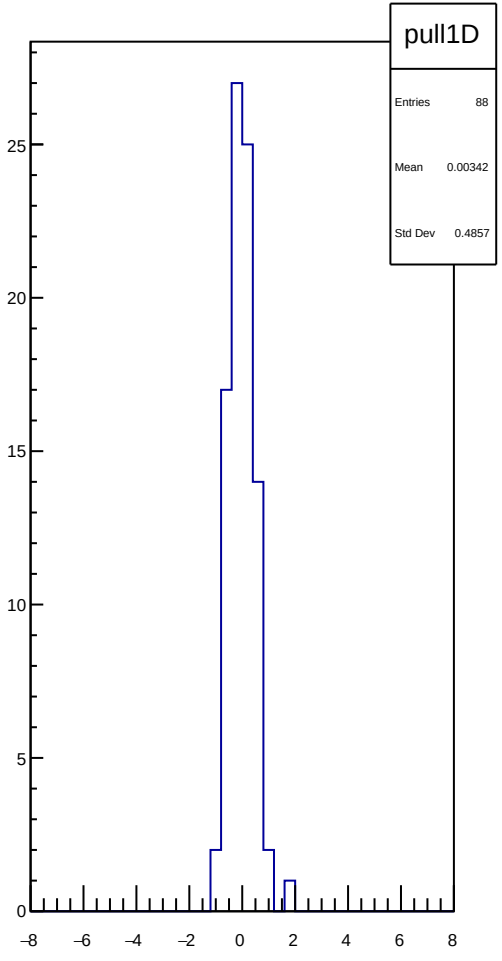

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 4540 / 87
p0 200 ± 0.1539
220
210
200
190
180
170
160

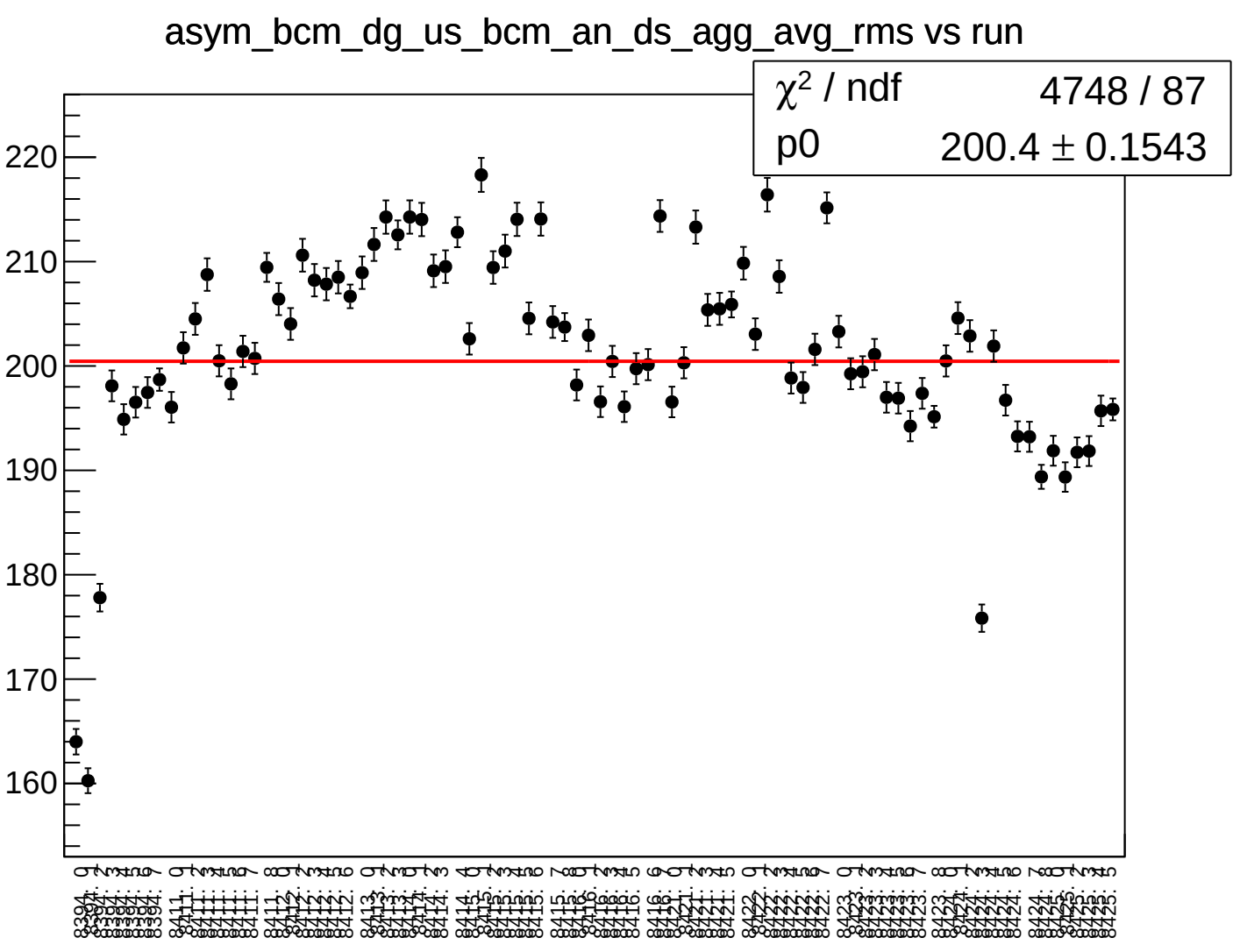

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 85.79 / 87
p0 −8.201 ± 10.34
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −185.4
Std Dev 0
2
1
0
−1
−2

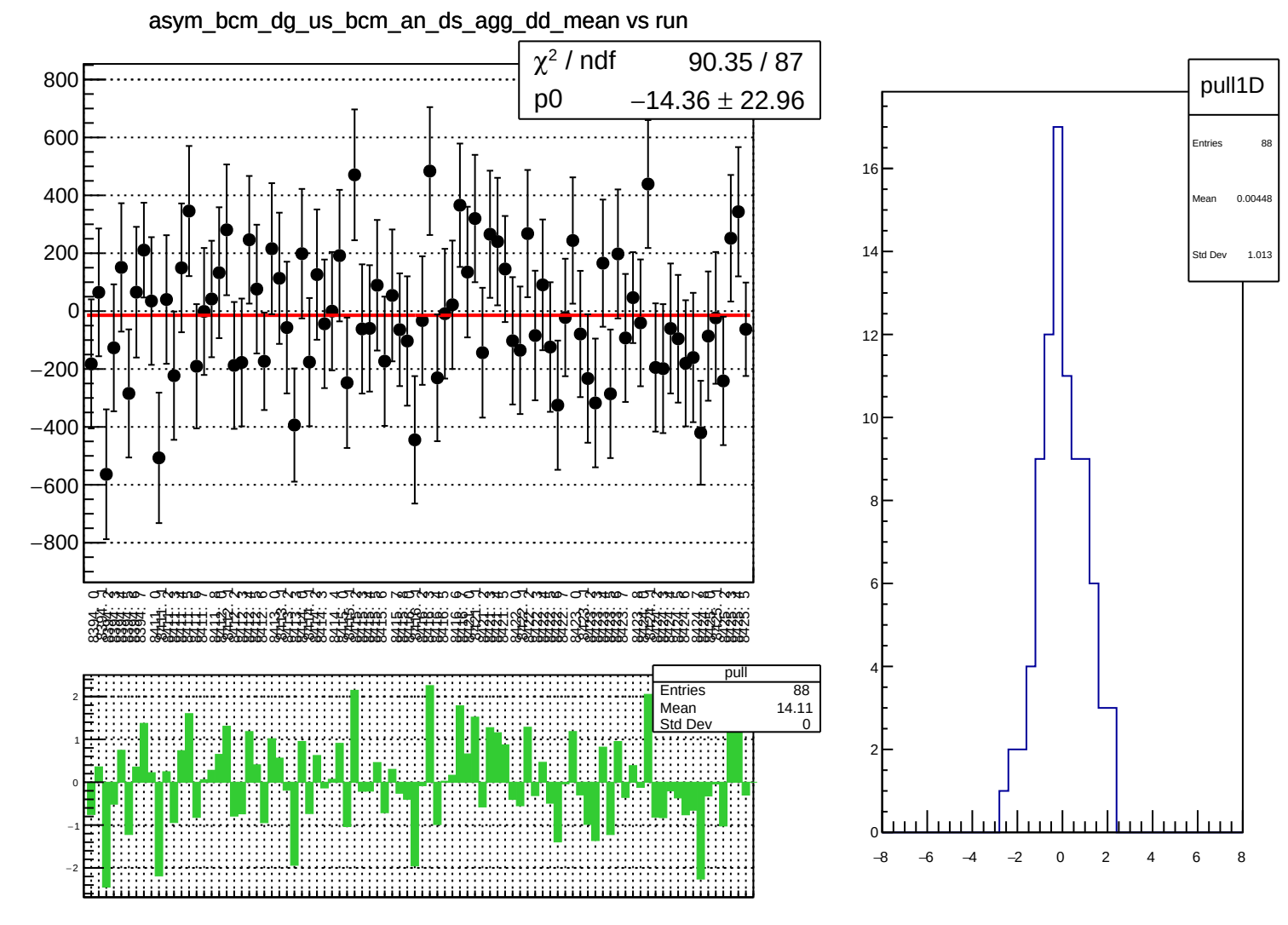

pull1D
Entries 88
Mean −0.01279
Std Dev 0.9873
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

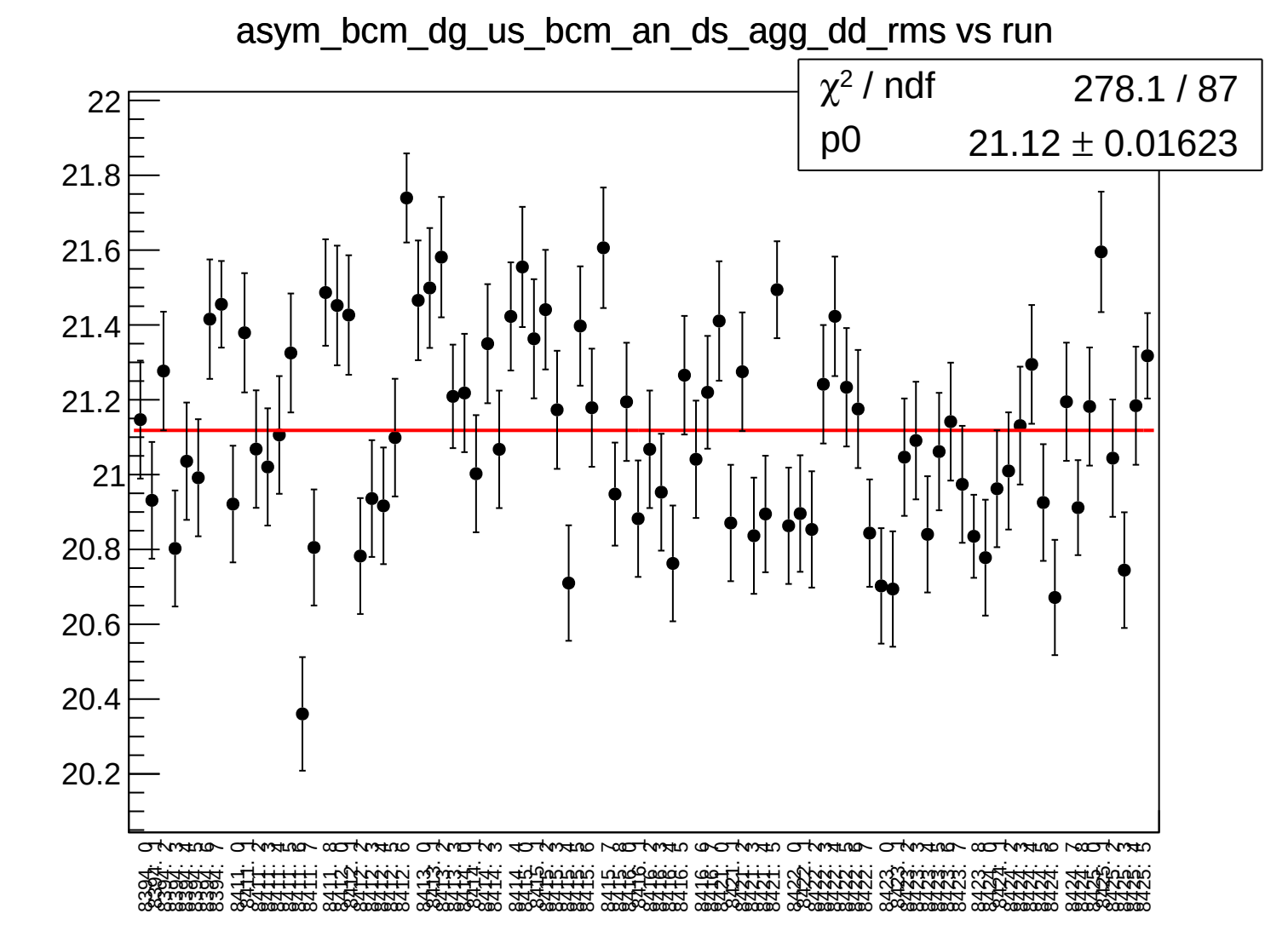

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 2078 / 87
p0 9.507 ± 0.007311
10.8
10.6
10.4
10.2
10
9.8
9.6
9.4
9.2
9
8.8

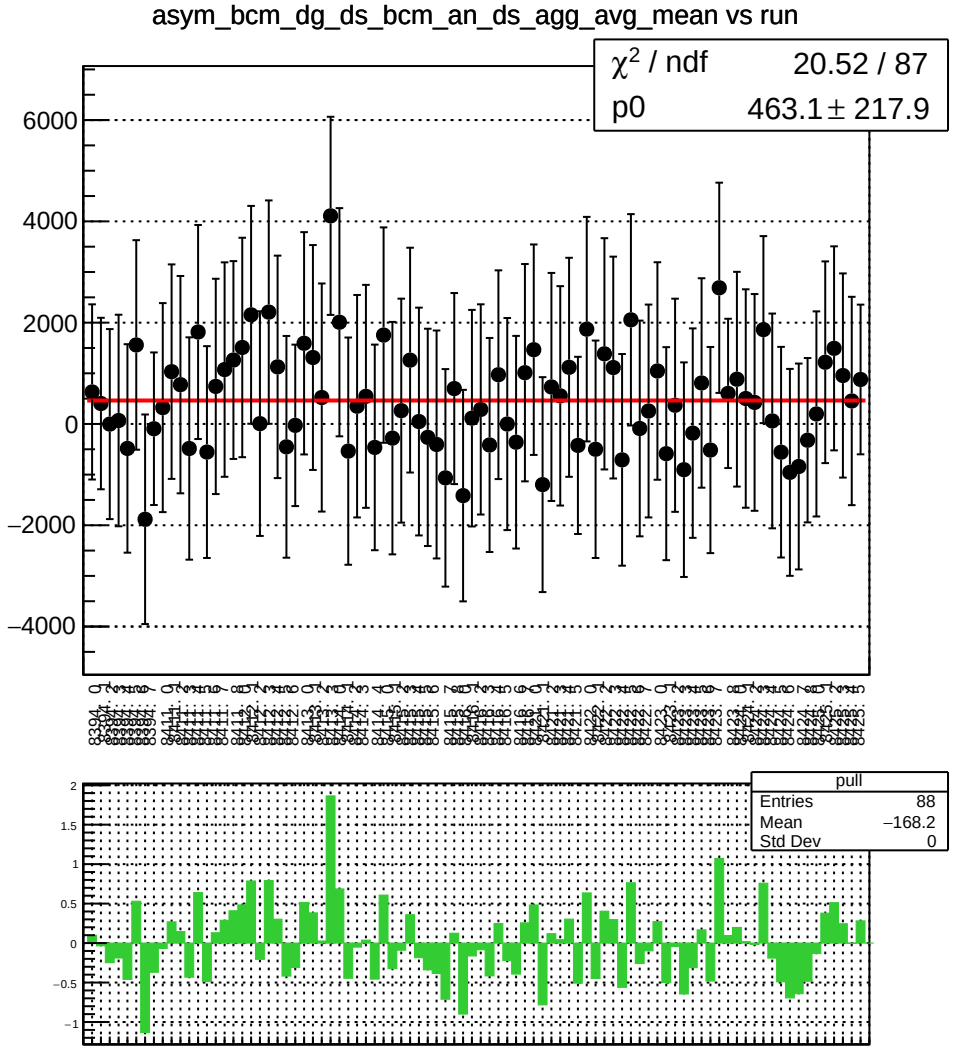

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 20.76 / 87
p0 454.8 ± 218.2
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 78.51
Std Dev 0
1.5
1
0.5
0
−0.5
−1

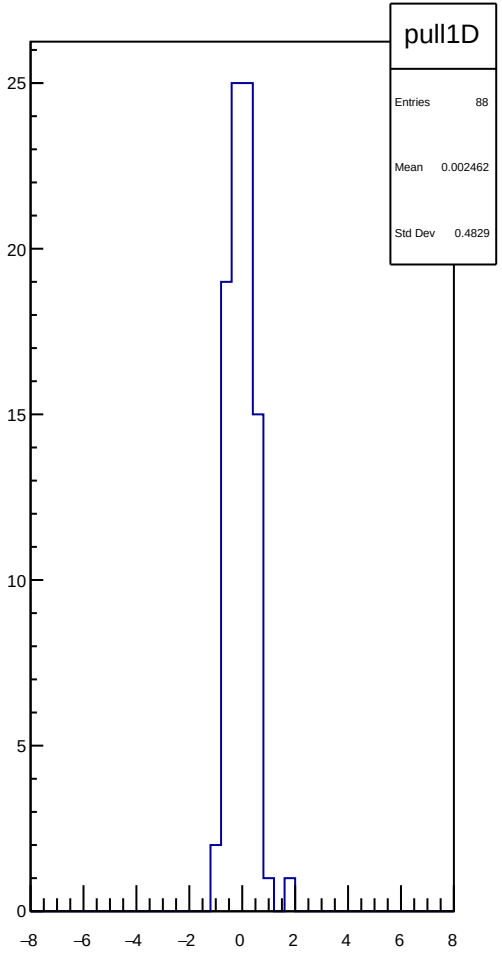

pull1D
Entries 88
Mean 0.00342
Std Dev 0.4857
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

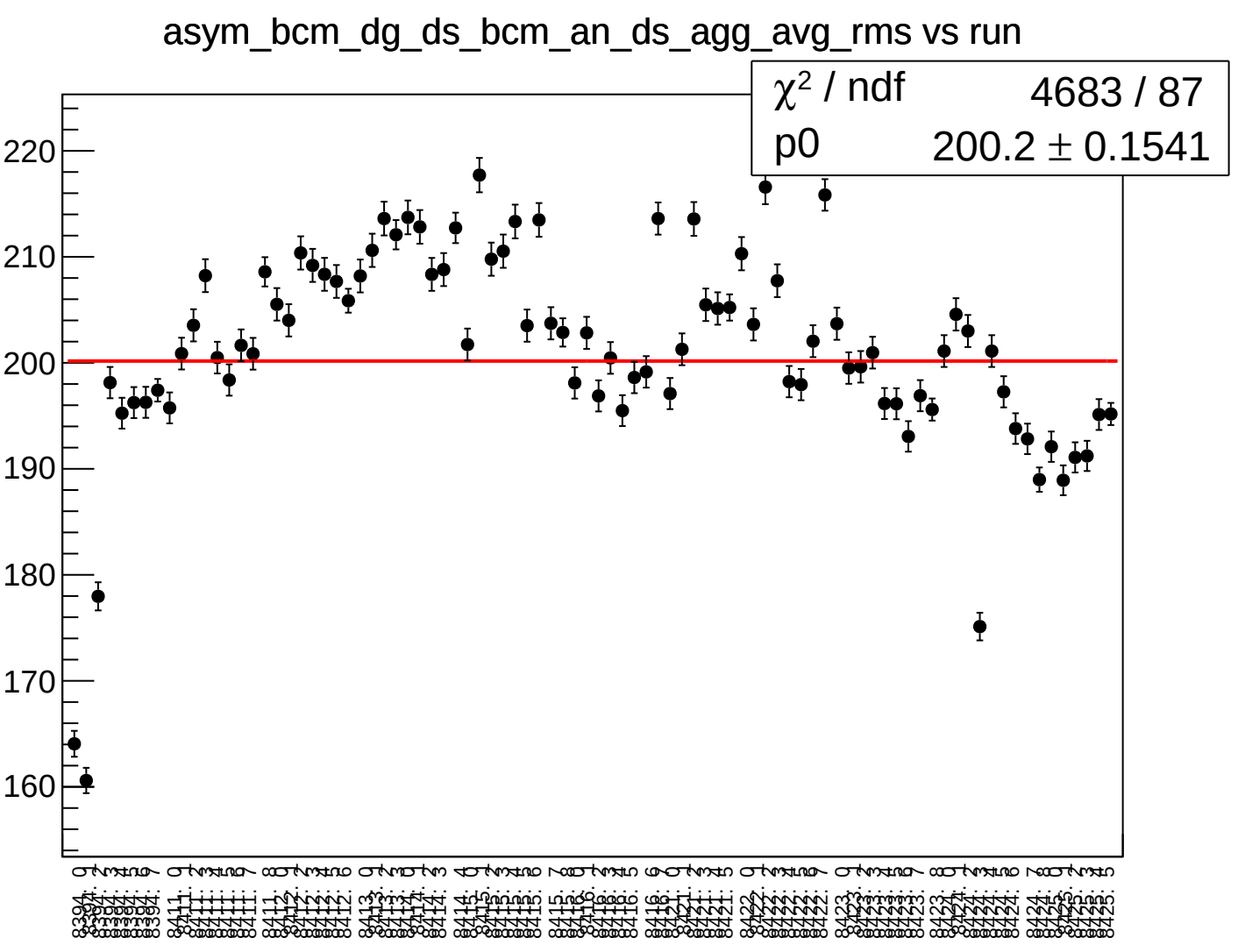

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4748 / 87
p0 200.4 ± 0.1543
220
210
200
190
180
170
160

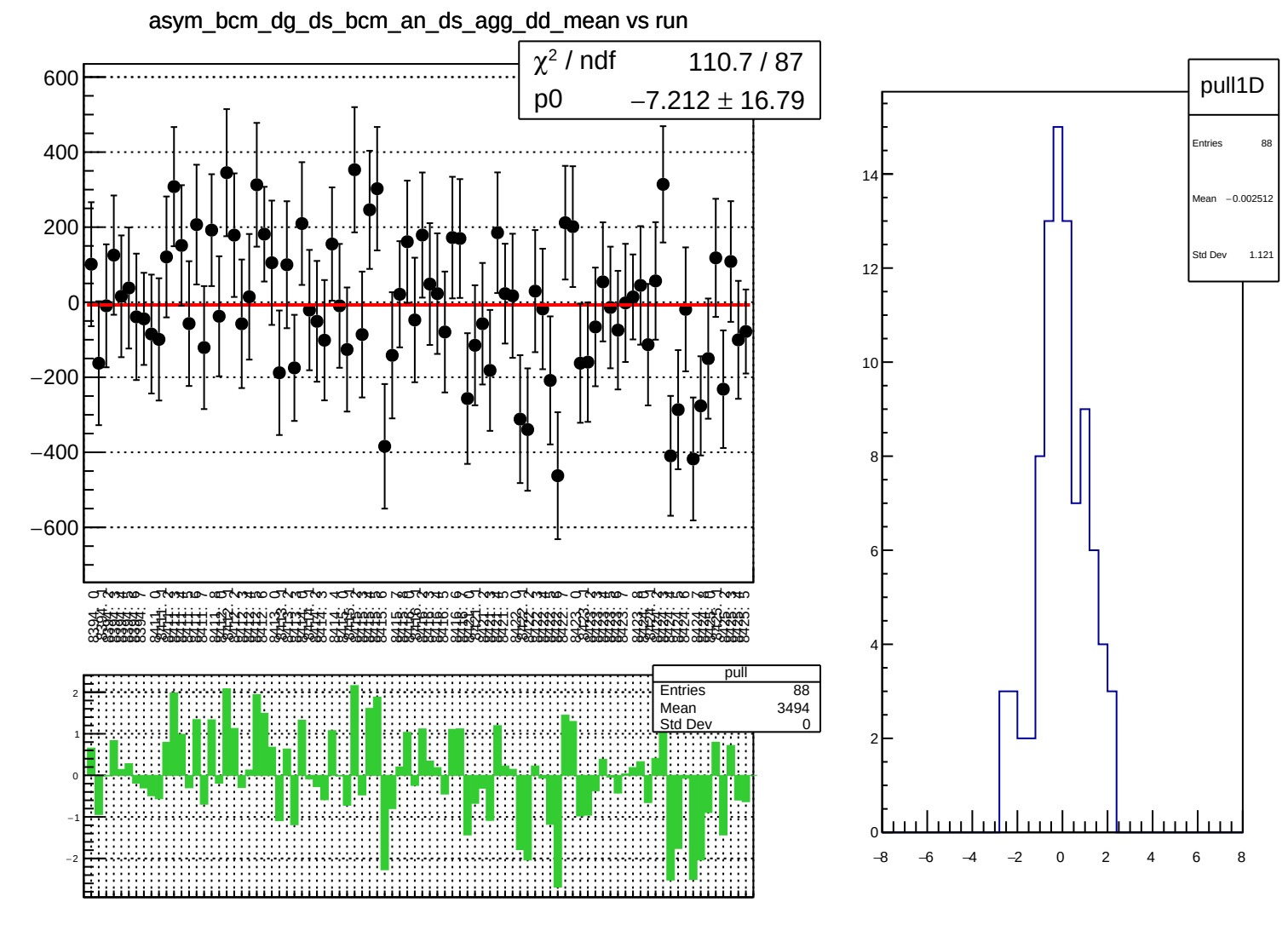

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 90.35 / 87
p0 −14.36 ± 22.96
pull
Entries 88
Mean 14.11
Std Dev 0
pull1D
Entries 88
Mean 0.00448
Std Dev 1.013

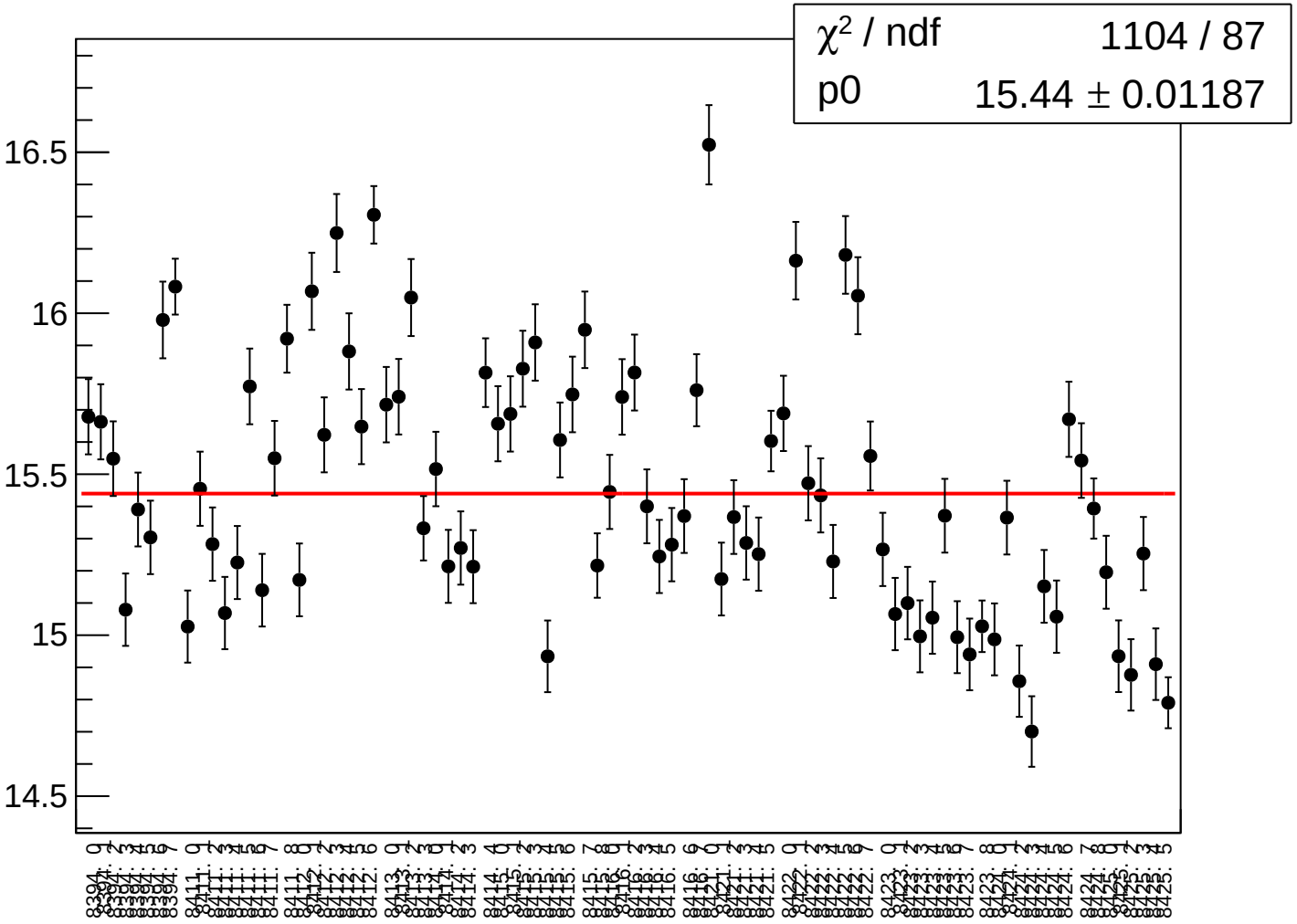

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 278.1 / 87
p0 21.12 ± 0.01623
22
21.8
21.6
21.4
21.2
21
20.8
20.6
20.4
20.2

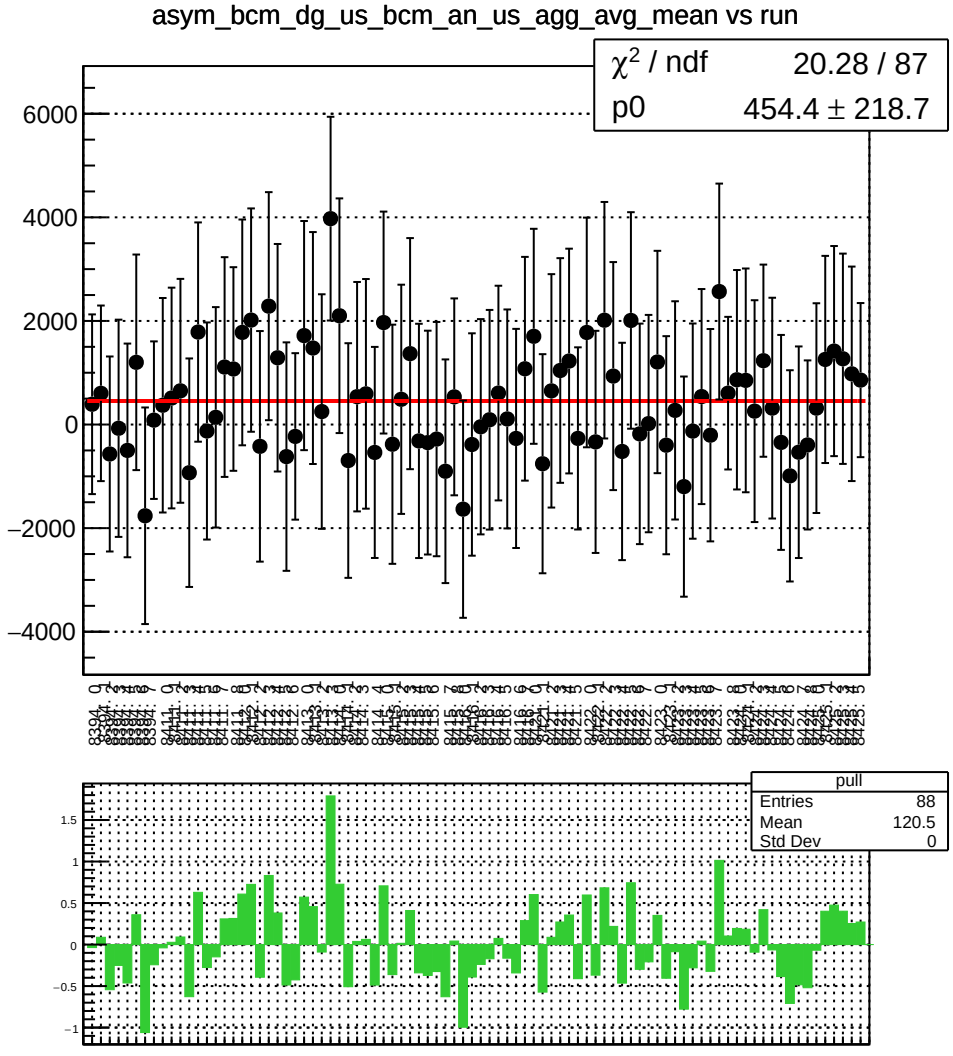

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 20.52 / 87
p0 463.1 ± 217.9
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −168.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

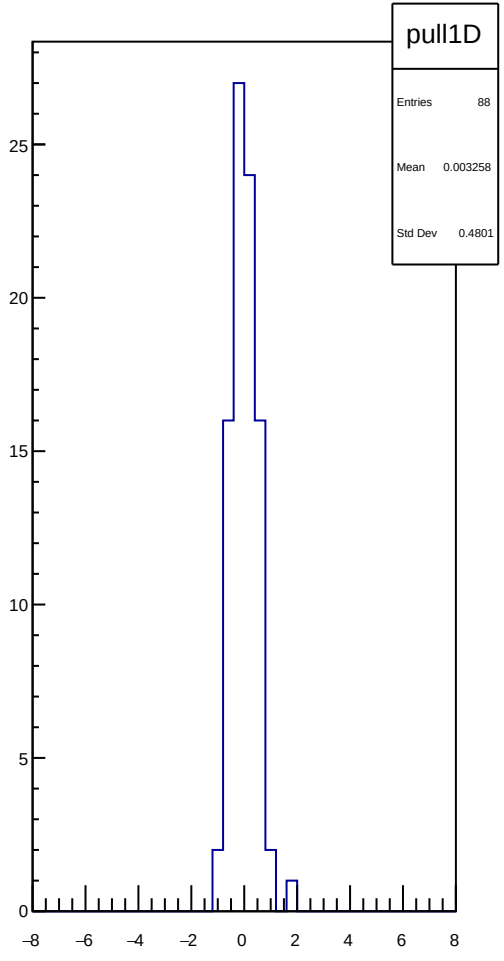

pull1D
Entries 88
Mean 0.002462
Std Dev 0.4829
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

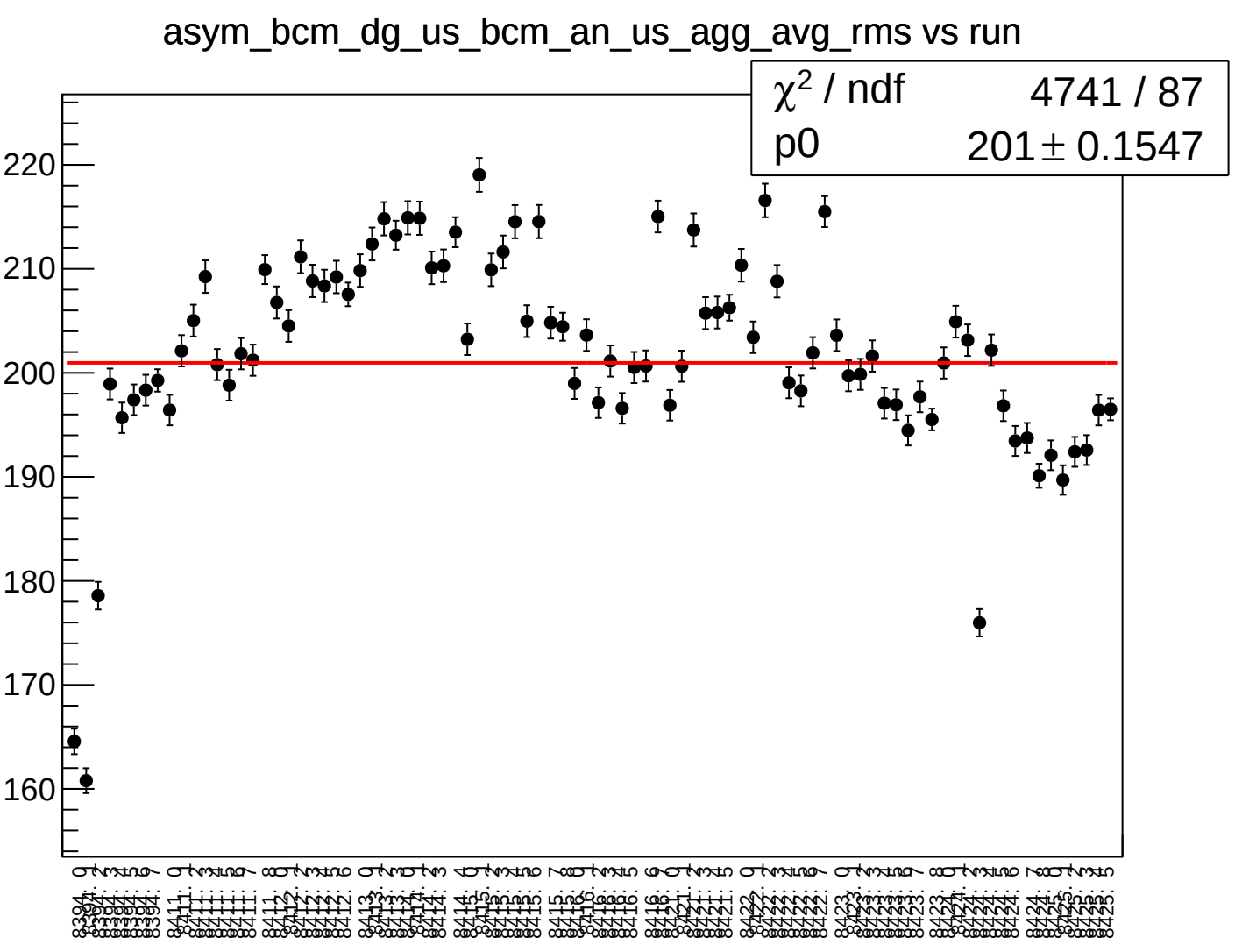

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4683 / 87
p0 200.2 ± 0.1541
220
210
200
190
180
170
160

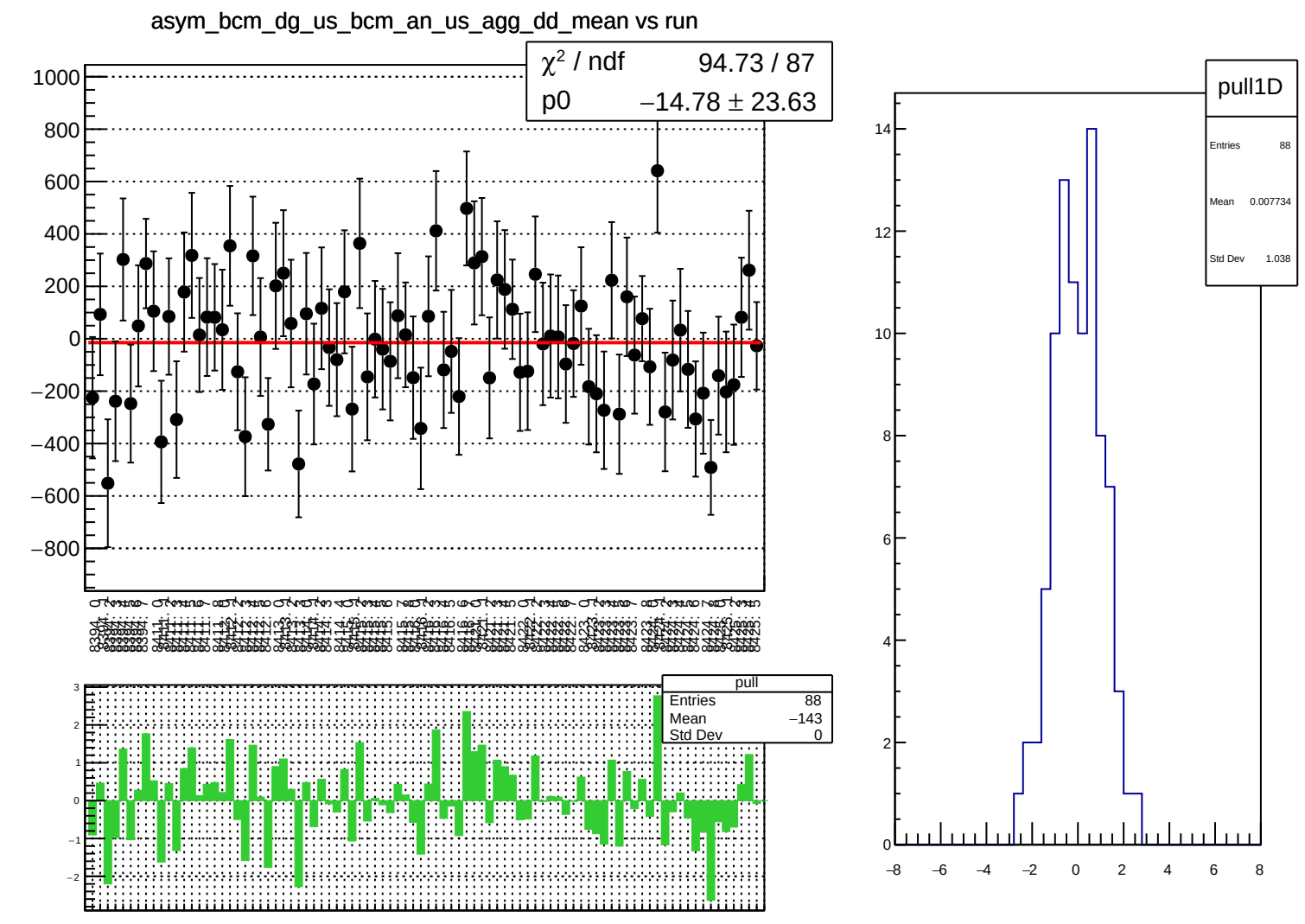

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 110.7 / 87
p0 −7.212 ± 16.79
pull
Entries 88
Mean 3494
Std Dev 0
pull1D
Entries 88
Mean −0.002512
Std Dev 1.121

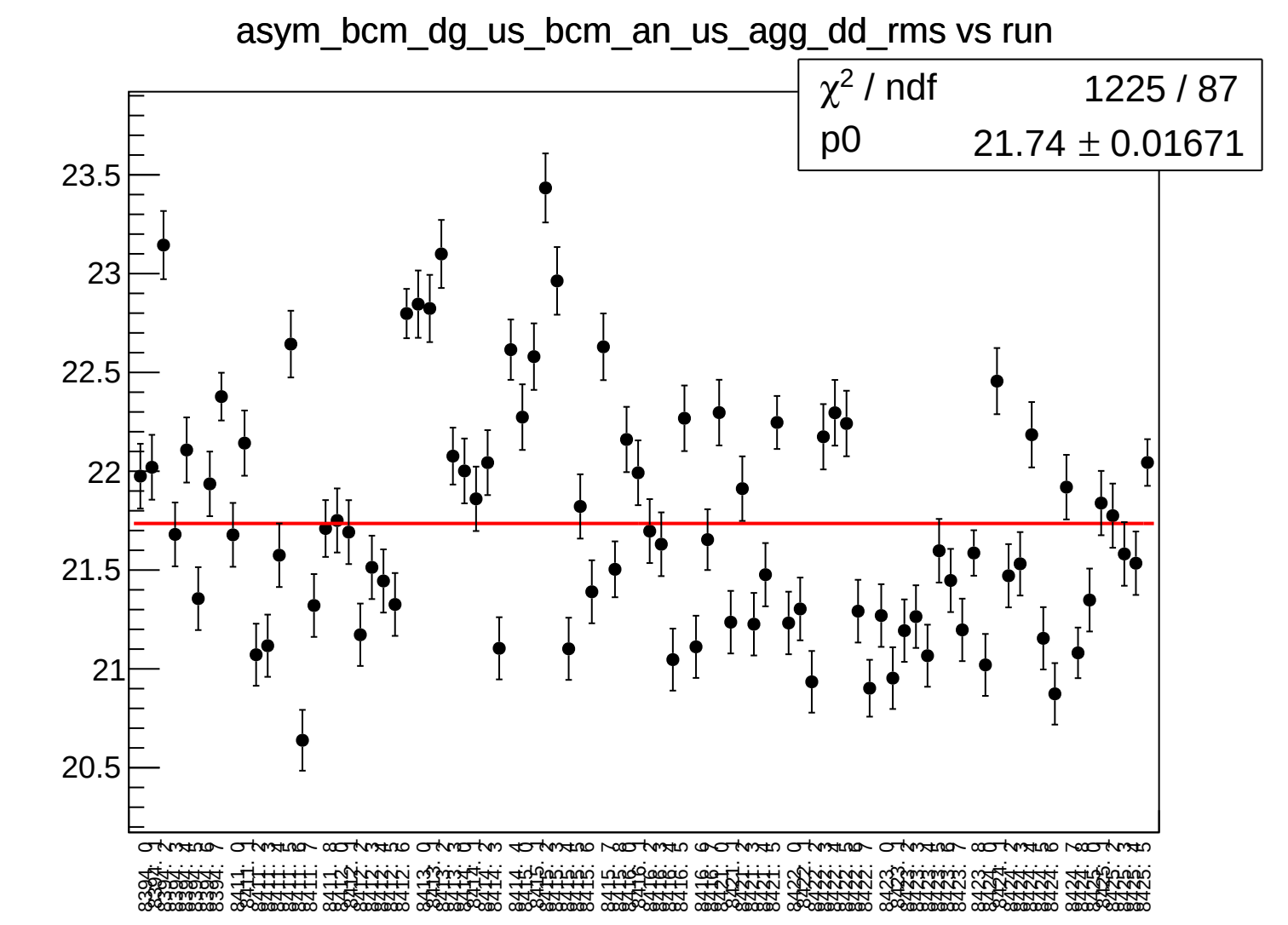

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1104 / 87
p0 15.44 ± 0.01187
16.5
16
15.5
15
14.5

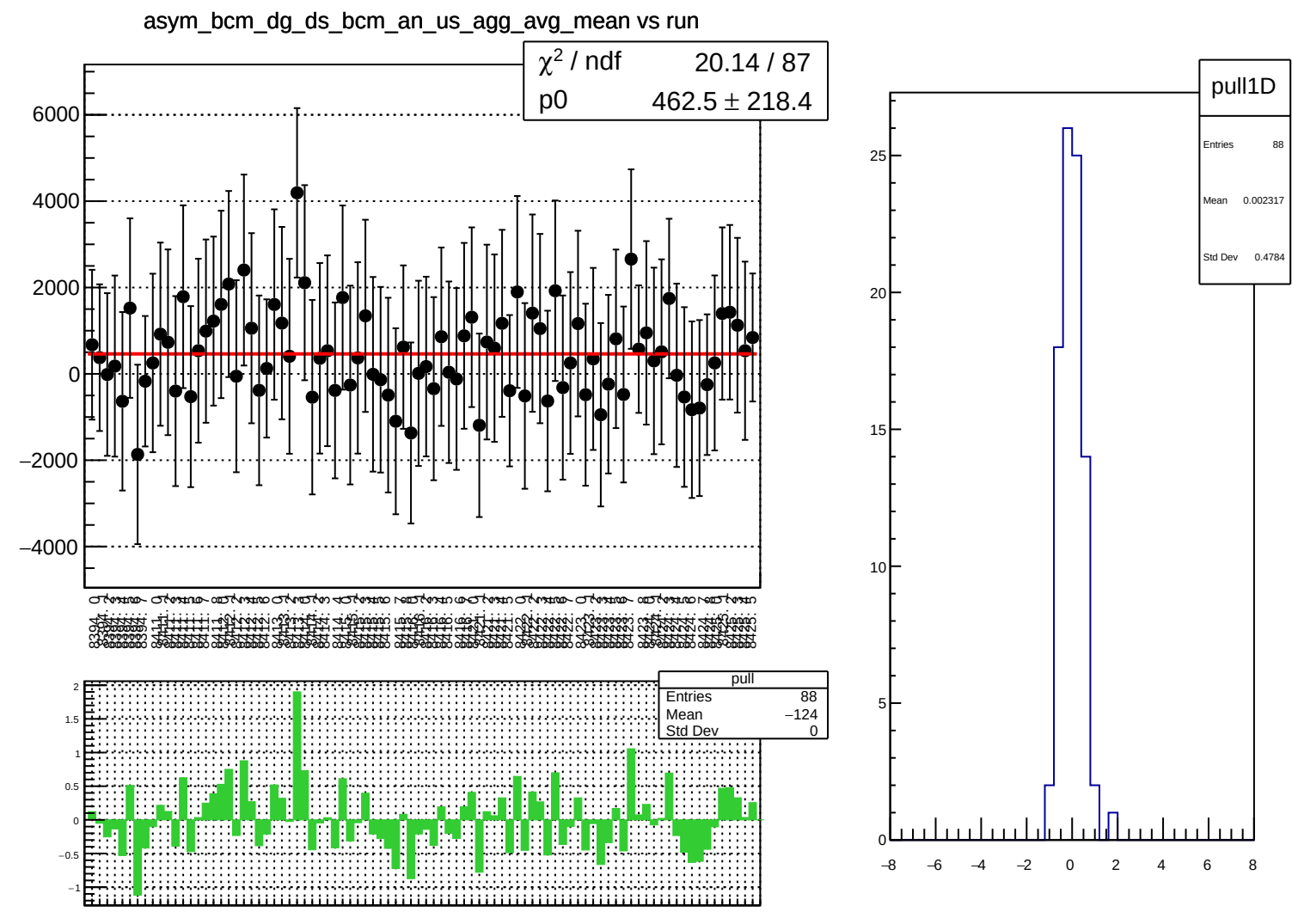

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 20.28 / 87
p0 454.4 ± 218.7
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 120.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1

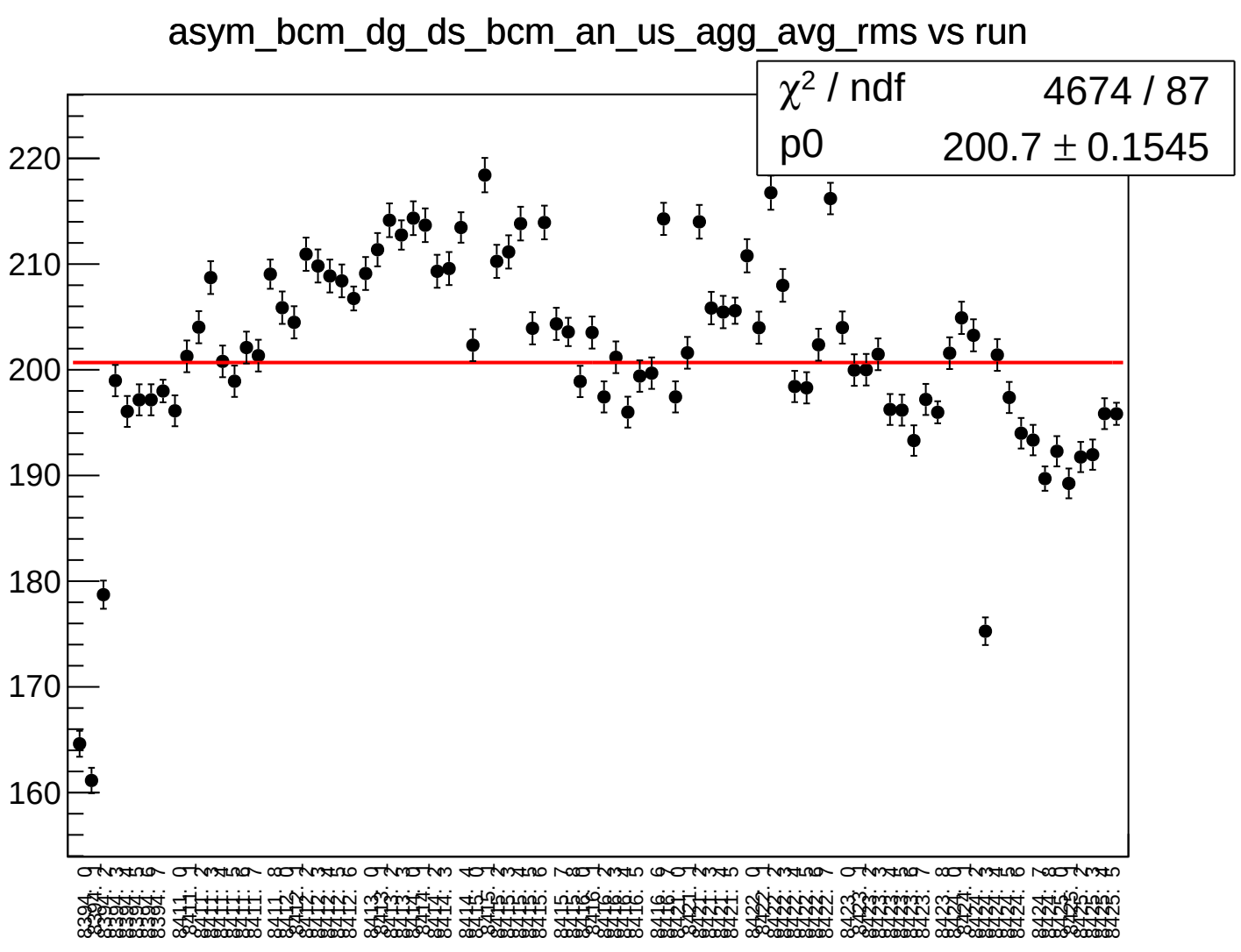

pull1D
Entries 88
Mean 0.003258
Std Dev 0.4801
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

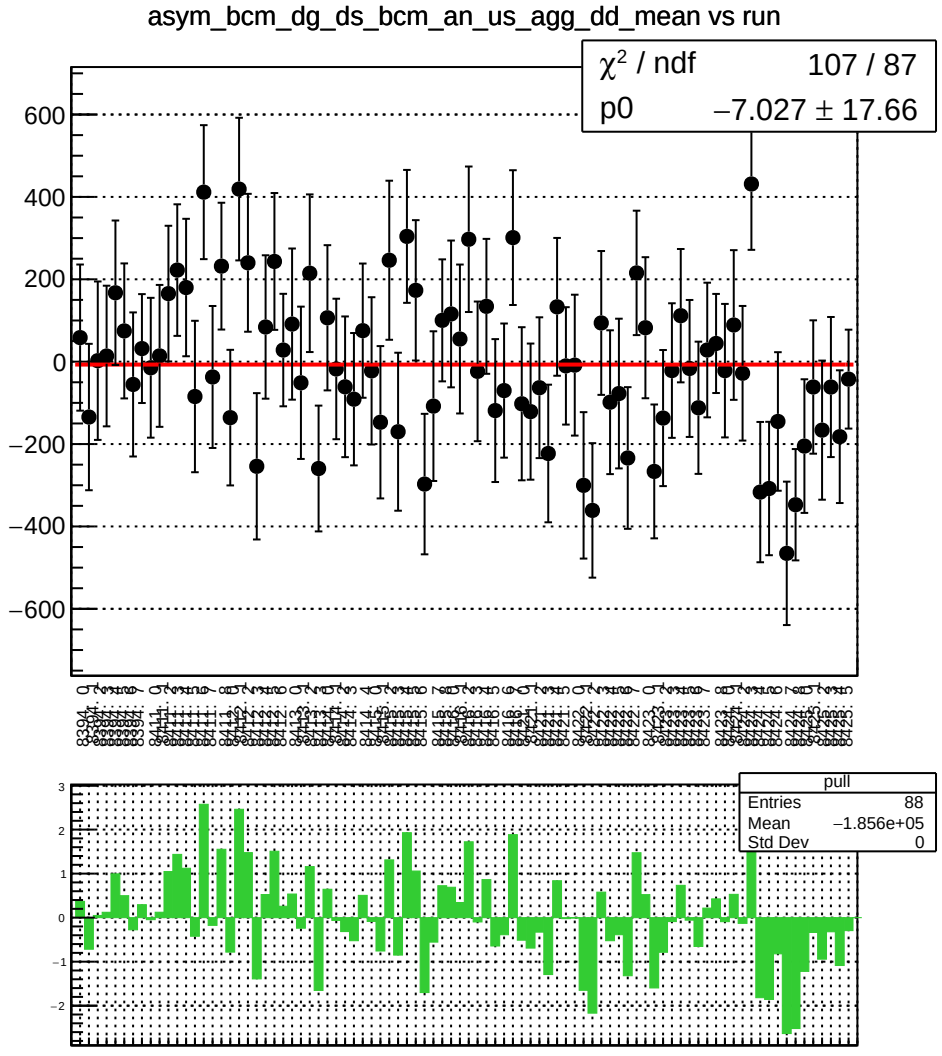

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4741 / 87
p0 201 ± 0.1547
220
210
200
190
180
170
160

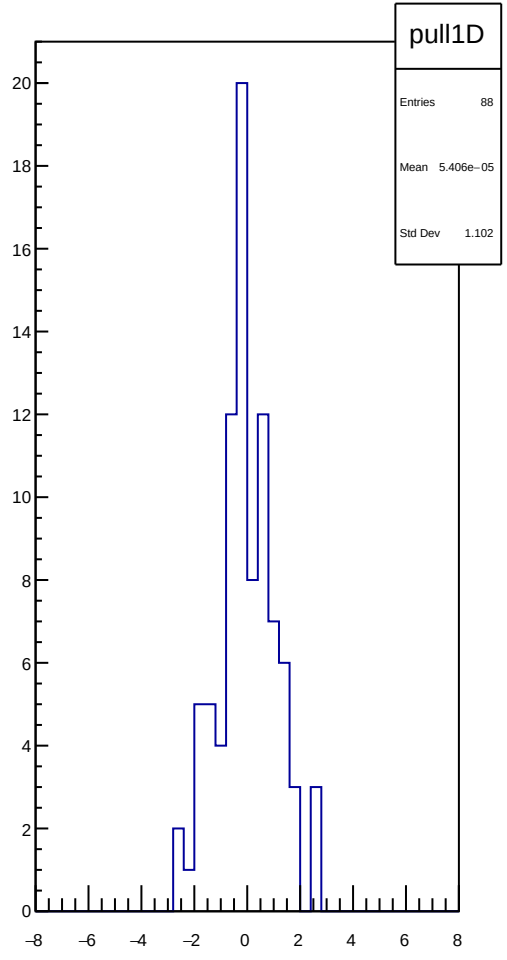

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 94.73 / 87
p0 −14.78 ± 23.63
pull
Entries 88
Mean −143
Std Dev 0
pull1D
Entries 88
Mean 0.007734
Std Dev 1.038

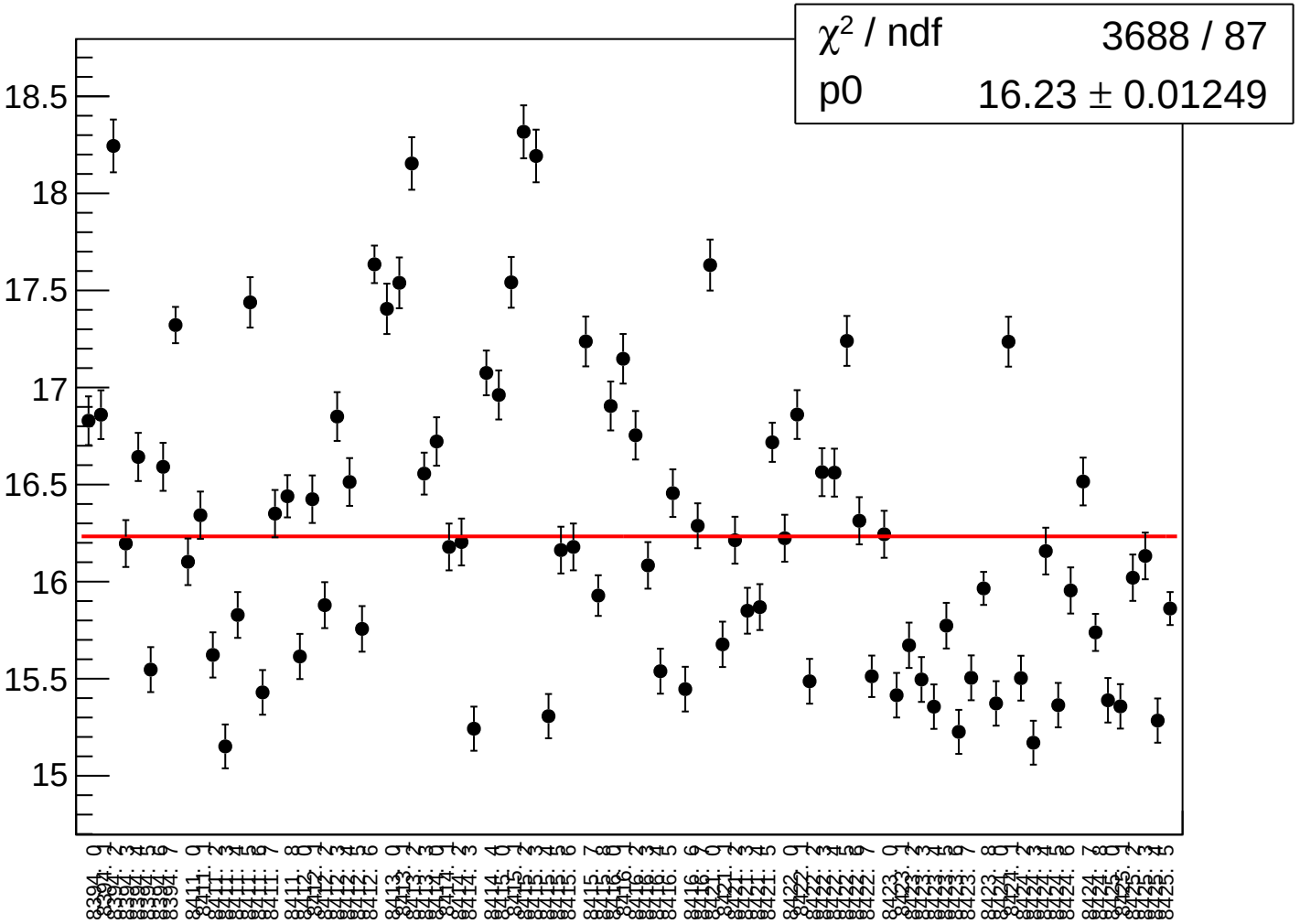

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1225 / 87
p0 21.74 ± 0.01671
23.5
23
22.5
22
21.5
21
20.5

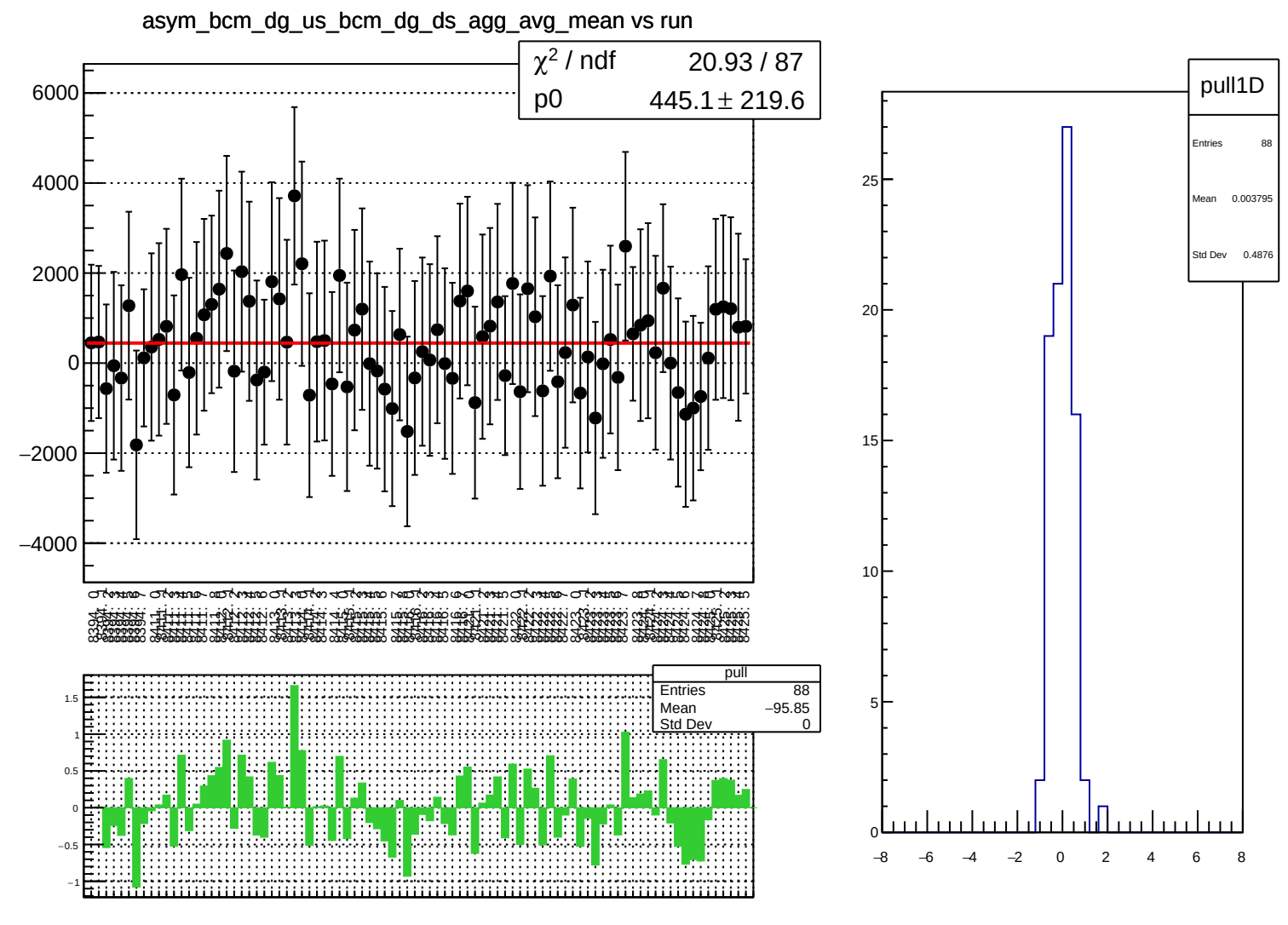

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 20.14 / 87
p0 462.5 ± 218.4
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −124
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.002317
Std Dev 0.4784
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

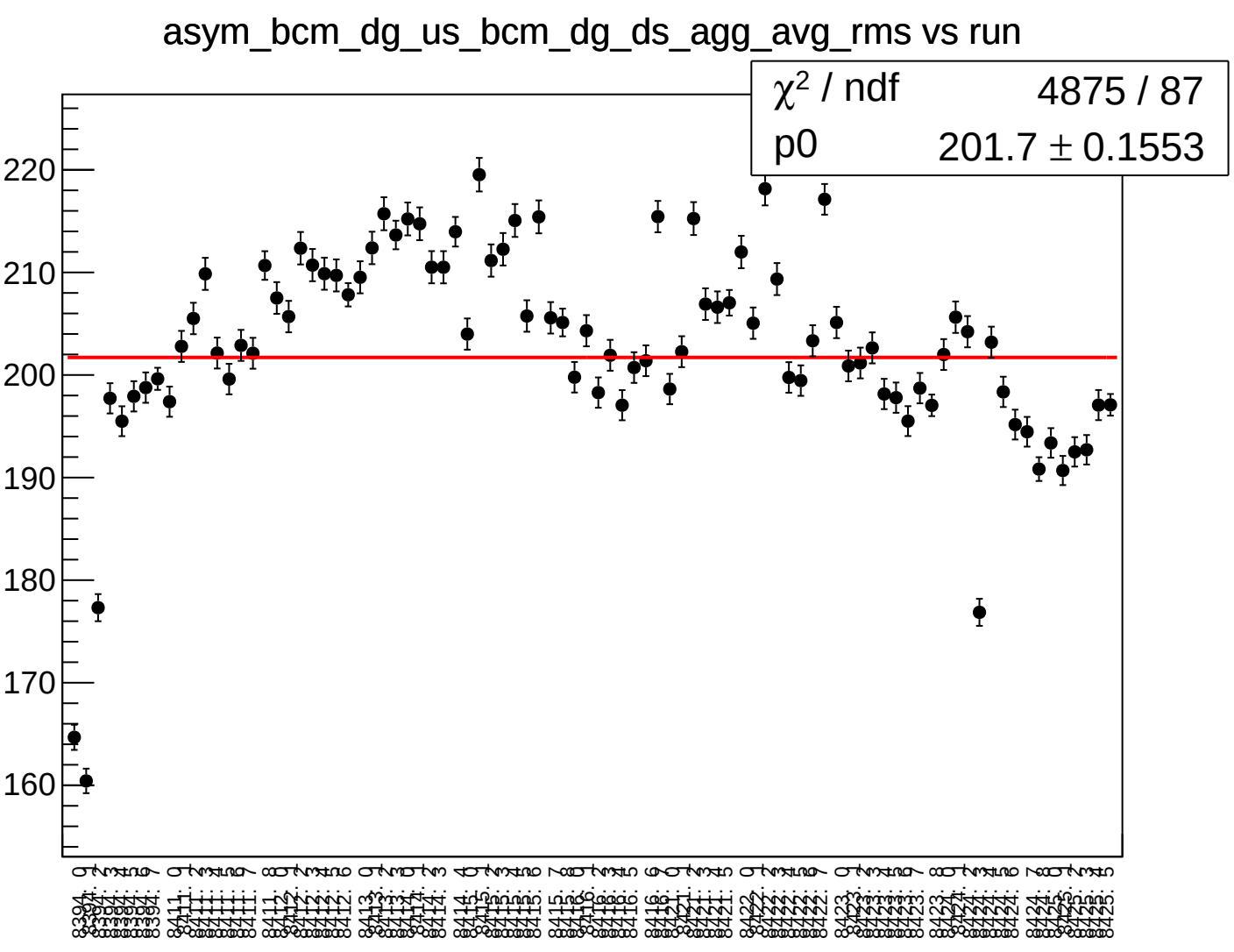

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4674 / 87
p0 200.7 ± 0.1545
220
210
200
190
180
170
160

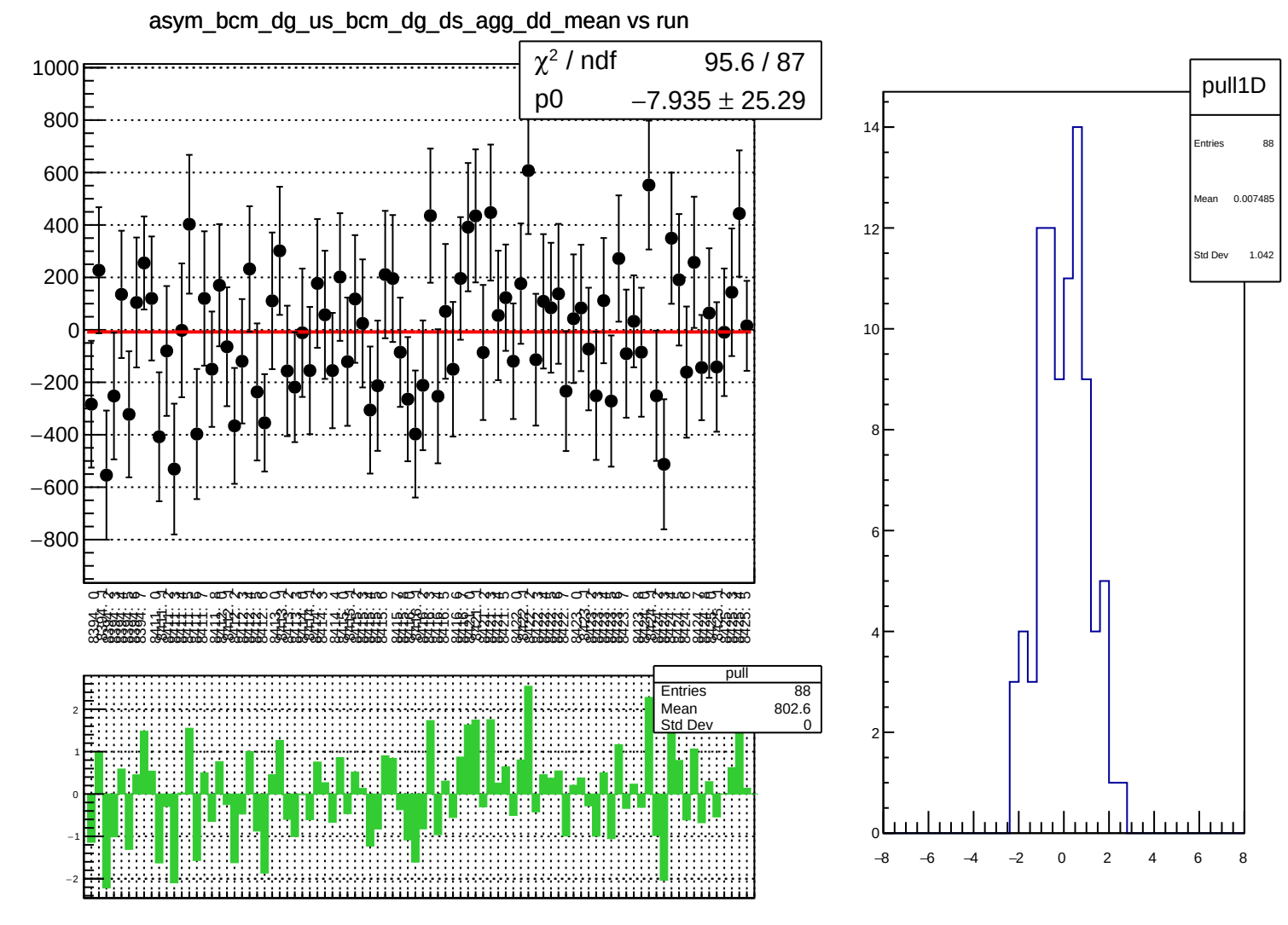

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 107 / 87
p0 −7.027 ± 17.66
600
400
200
0
−200
−400
−600
pull
Entries 88
Mean −1.856e+05
Std Dev 0
3
2
1
0
−1
−2

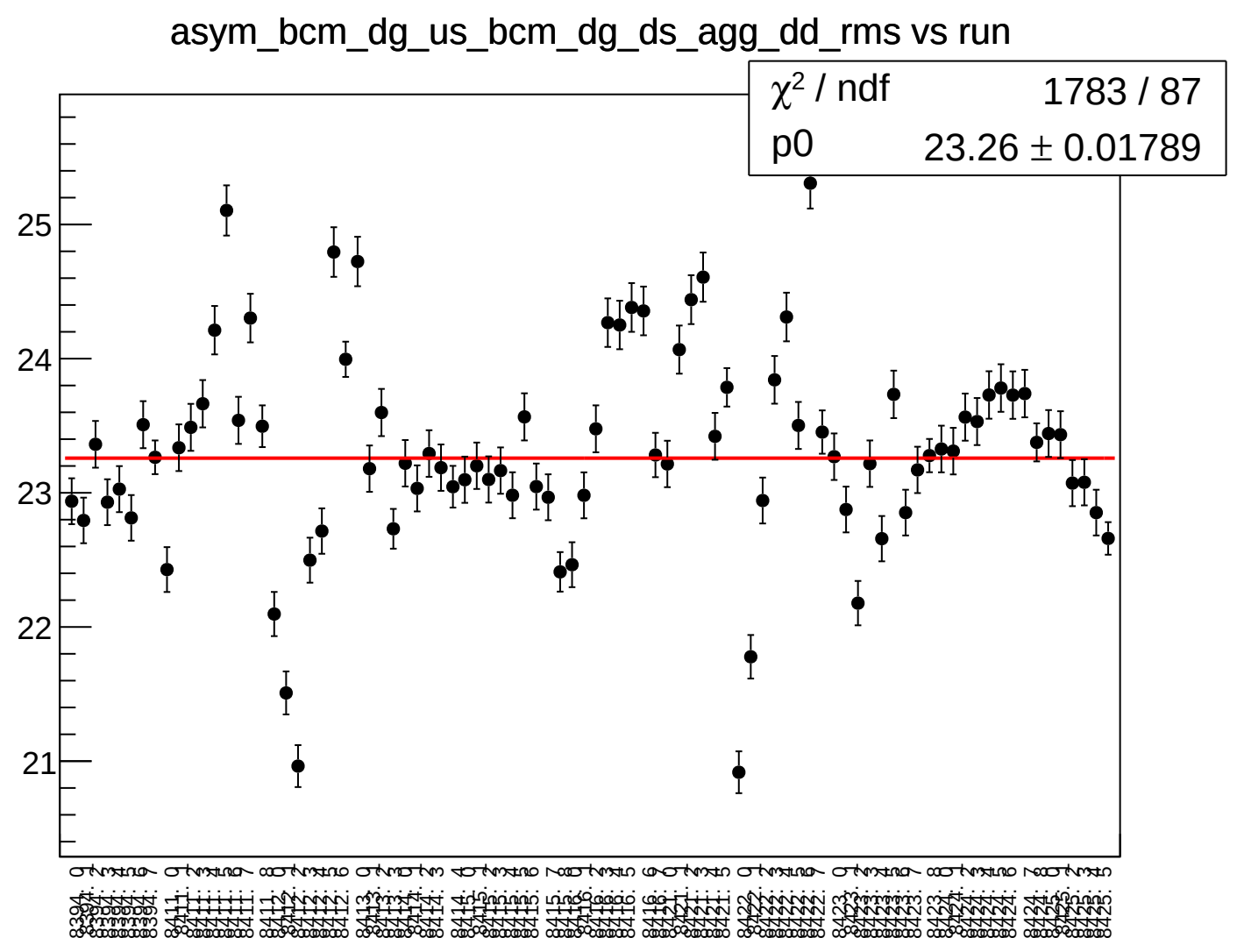

pull1D
Entries 88
Mean 5.406e−05
Std Dev 1.102
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

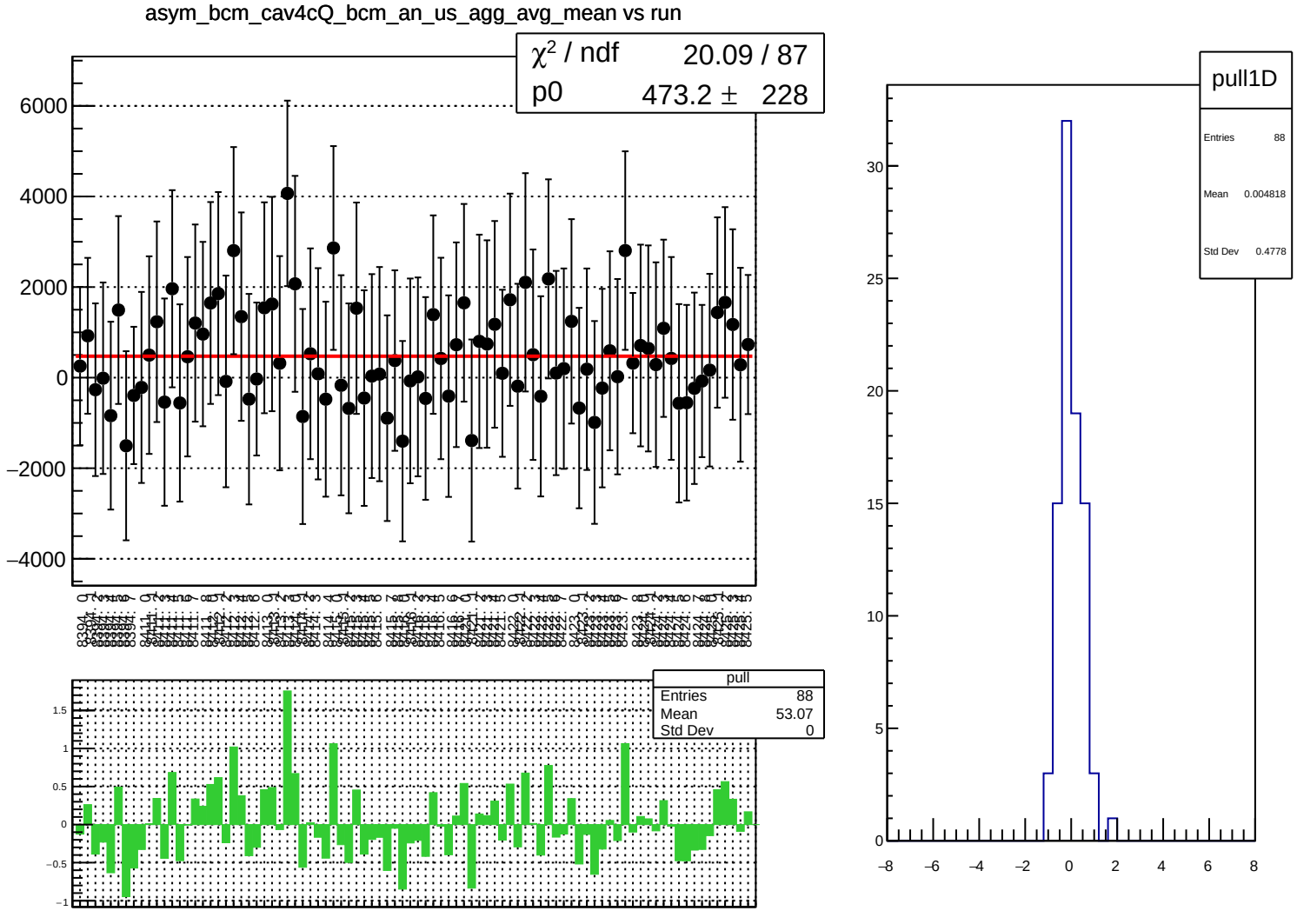

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3688 / 87
p0 16.23 ± 0.01249
18.5
18
17.5
17
16.5
16
15.5
15

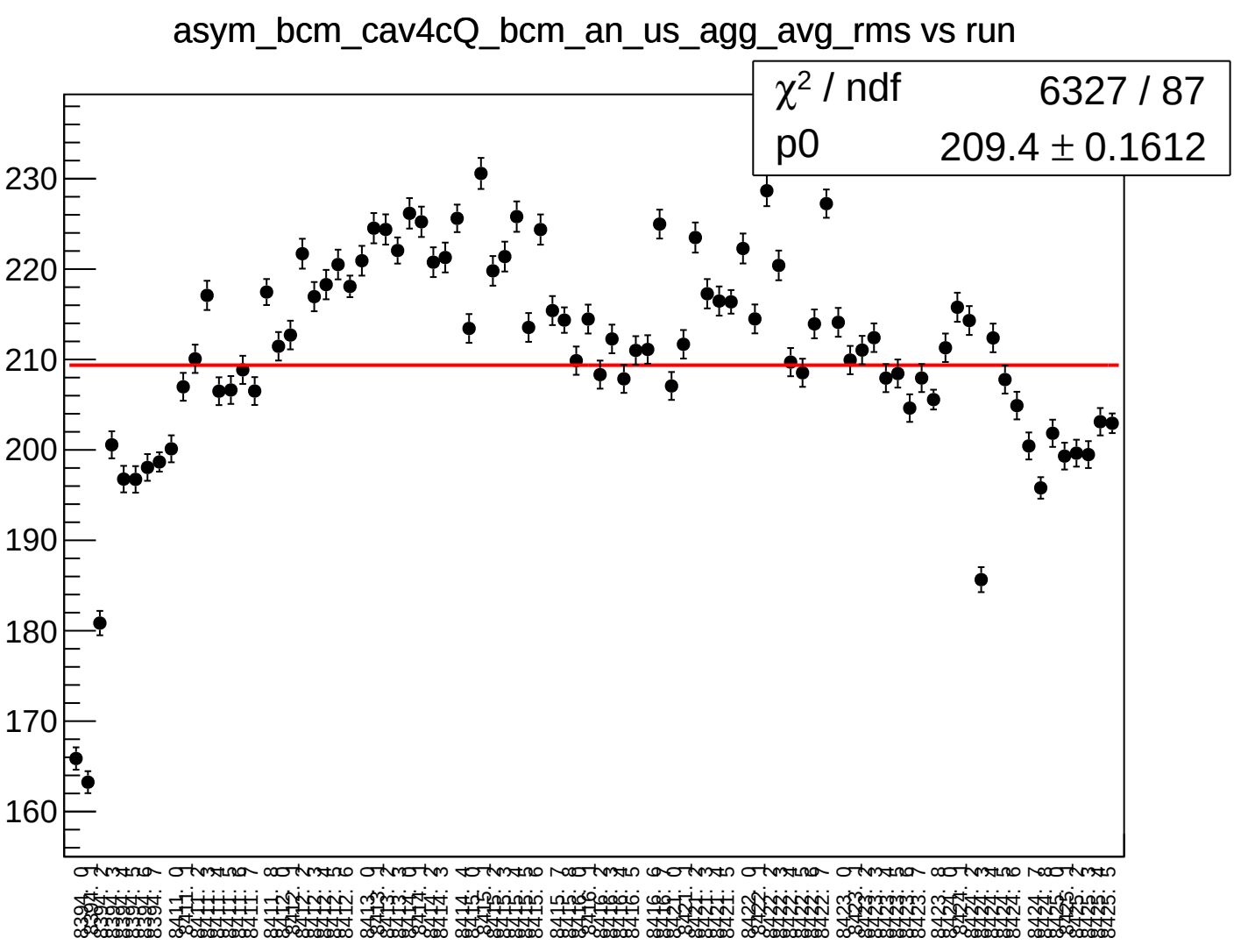

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 20.93 / 87
p0 445.1 ± 219.6
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −95.85
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.003795
Std Dev 0.4876
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

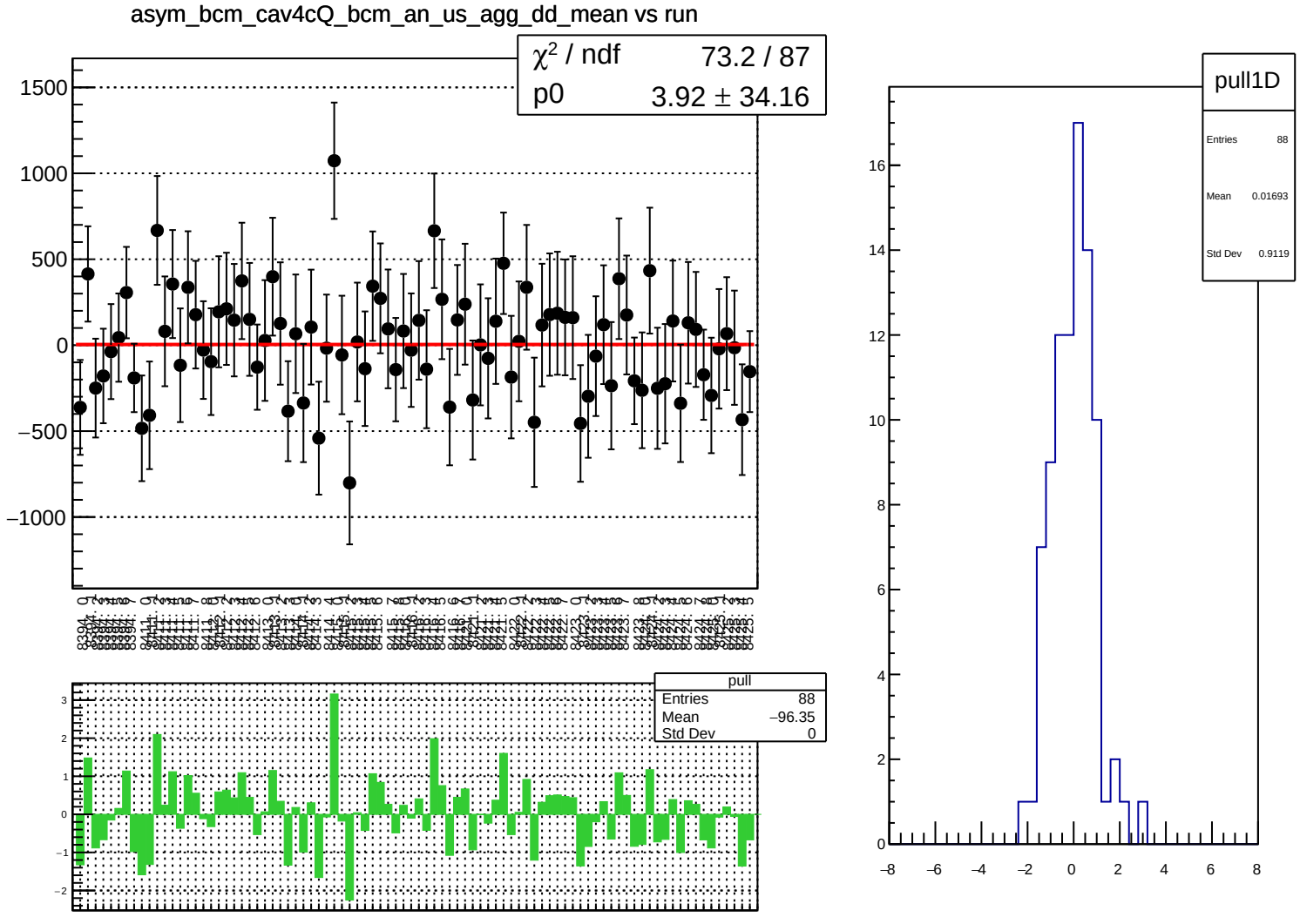

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 4875 / 87
p0 201.7 ± 0.1553
220
210
200
190
180
170
160

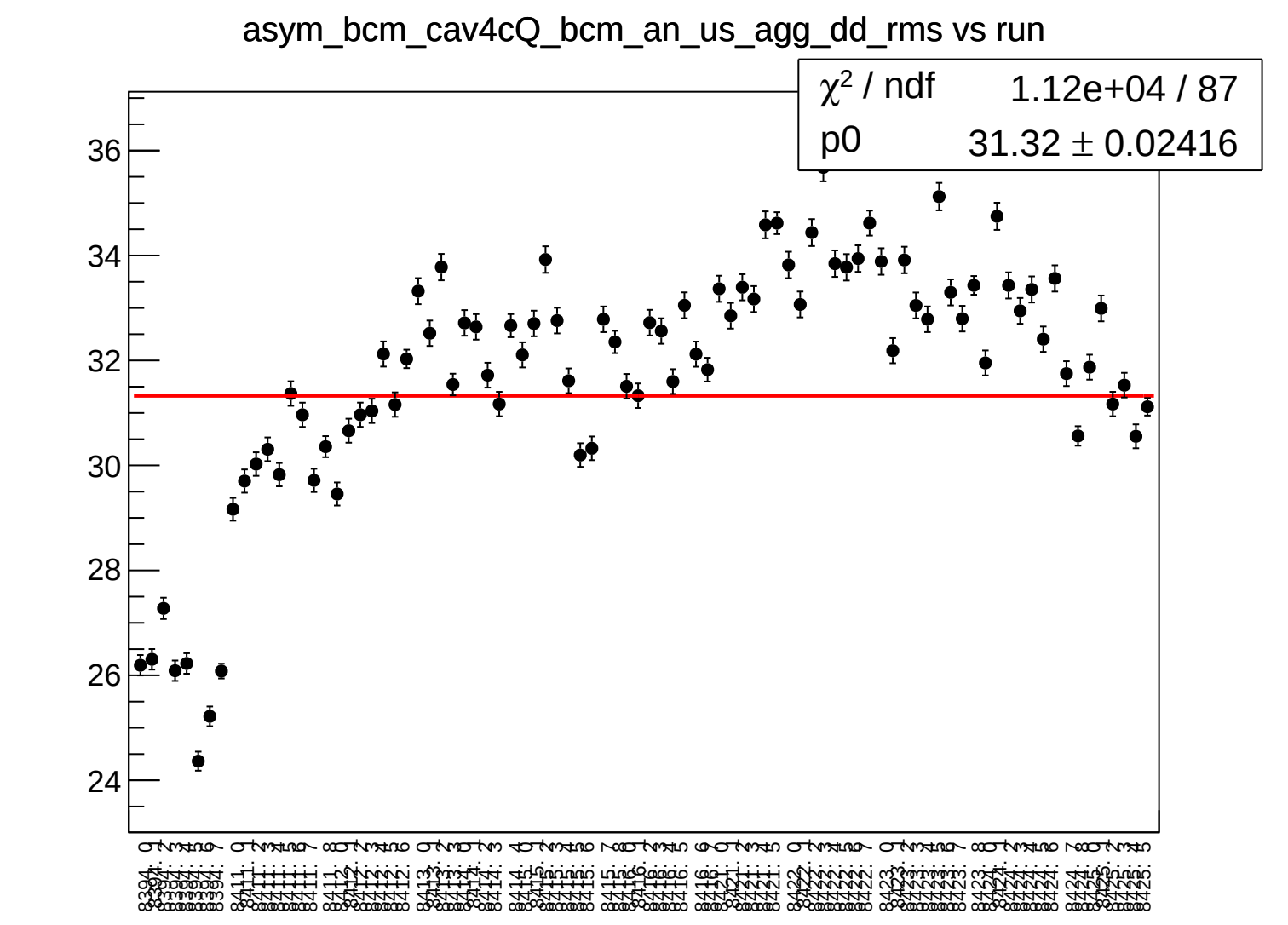

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 95.6 / 87
p0 −7.935 ± 25.29
pull
Entries 88
Mean 802.6
Std Dev 0
pull1D
Entries 88
Mean 0.007485
Std Dev 1.042

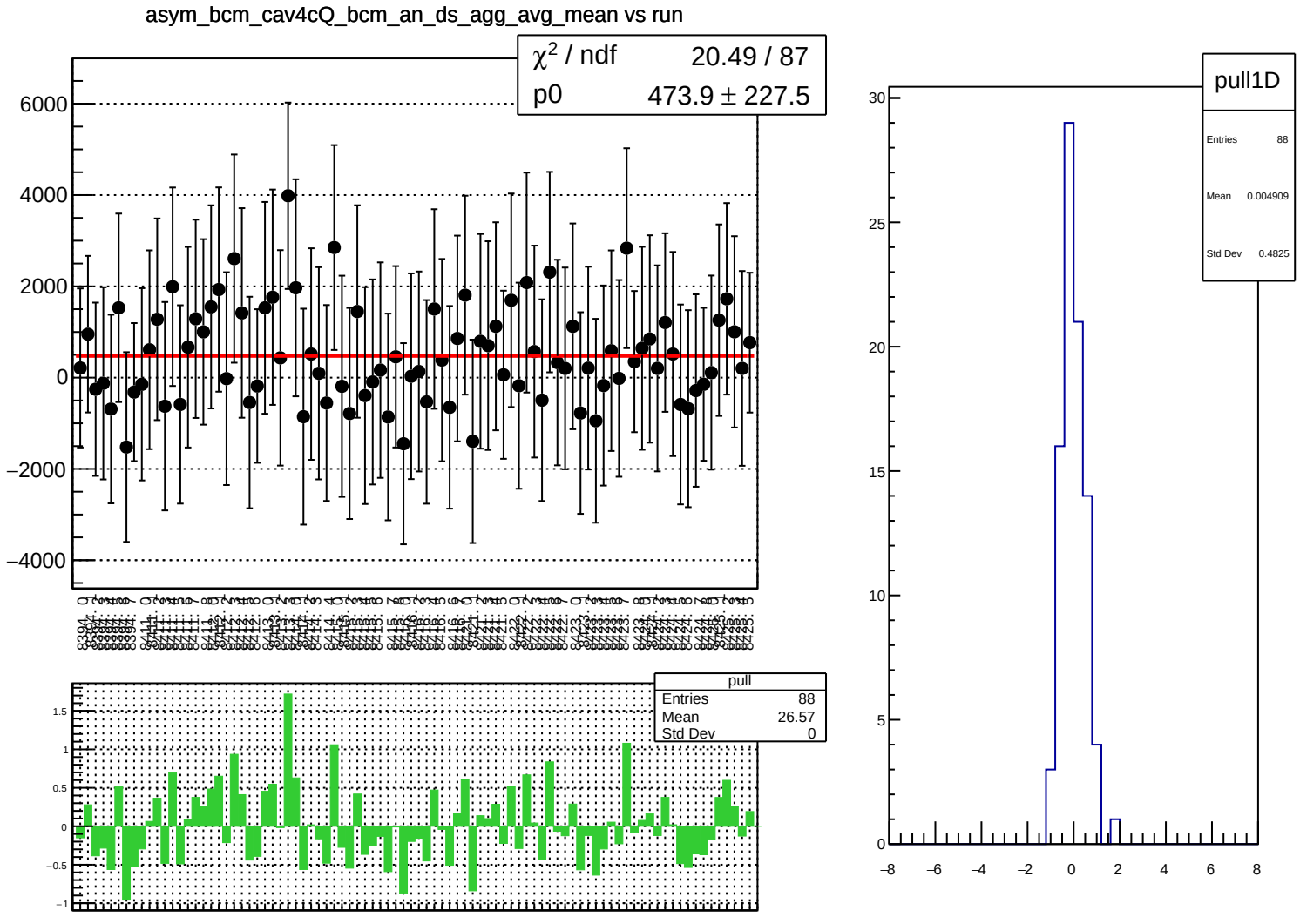

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1783 / 87
p0 23.26 ± 0.01789
25
24
23
22
21

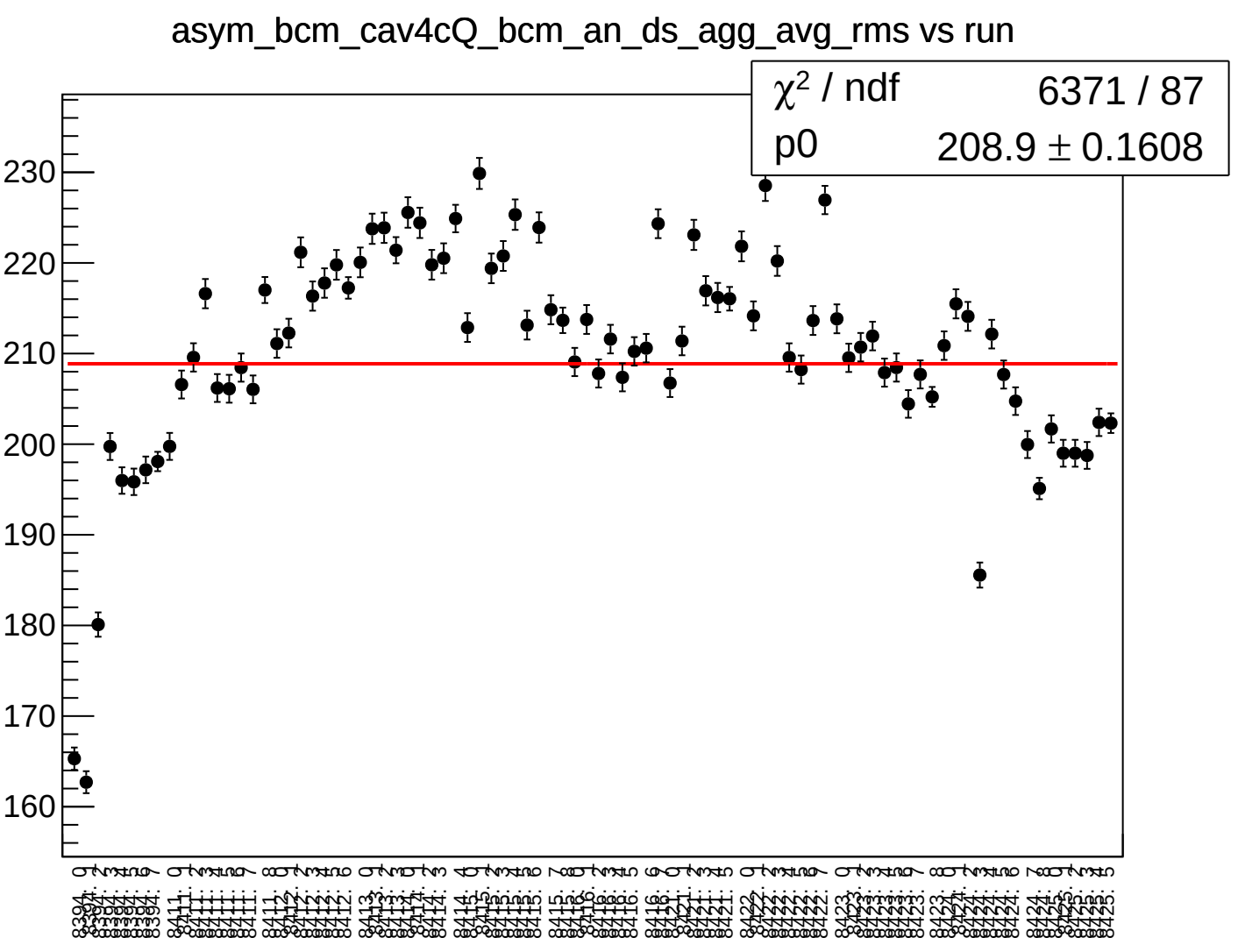

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 20.09 / 87
p0 473.2 ± 228
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 53.07
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.004818
Std Dev 0.4778
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

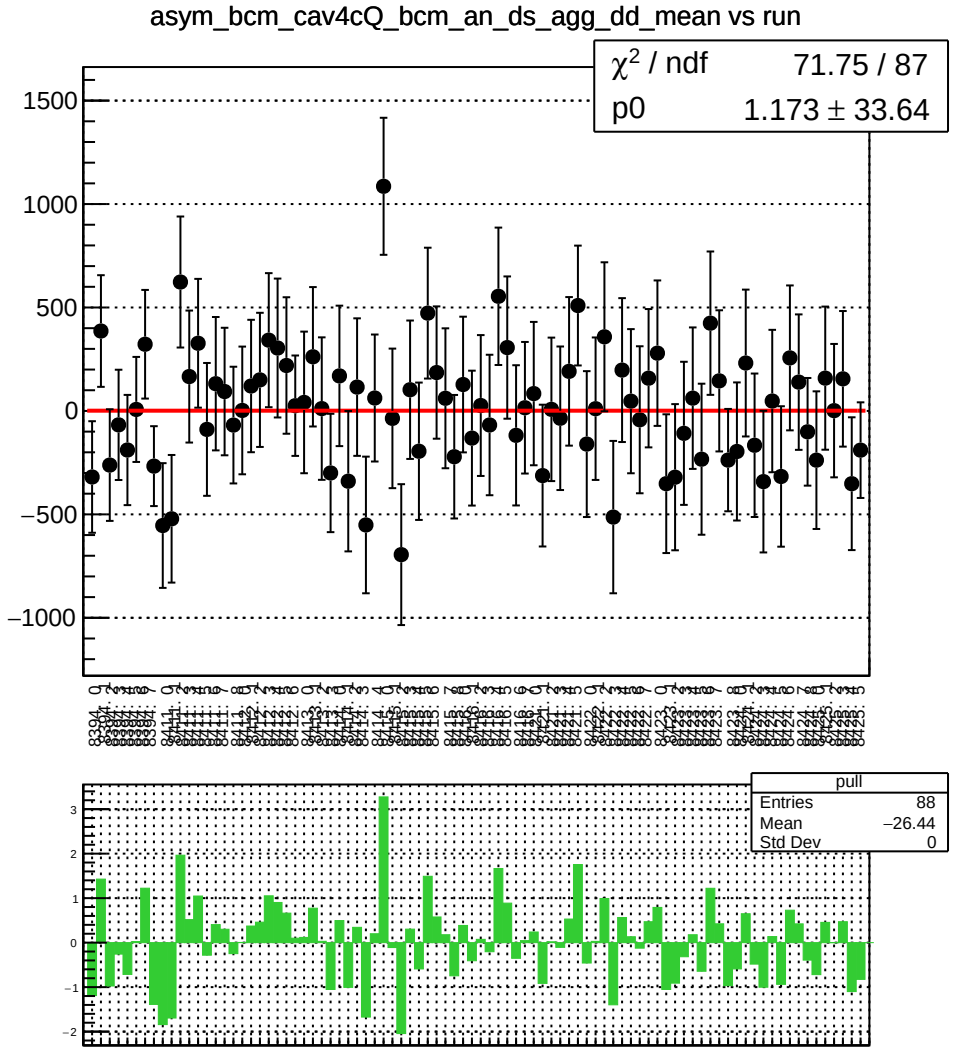

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 6327 / 87
p0 209.4 ± 0.1612
230
220
210
200
190
180
170
160

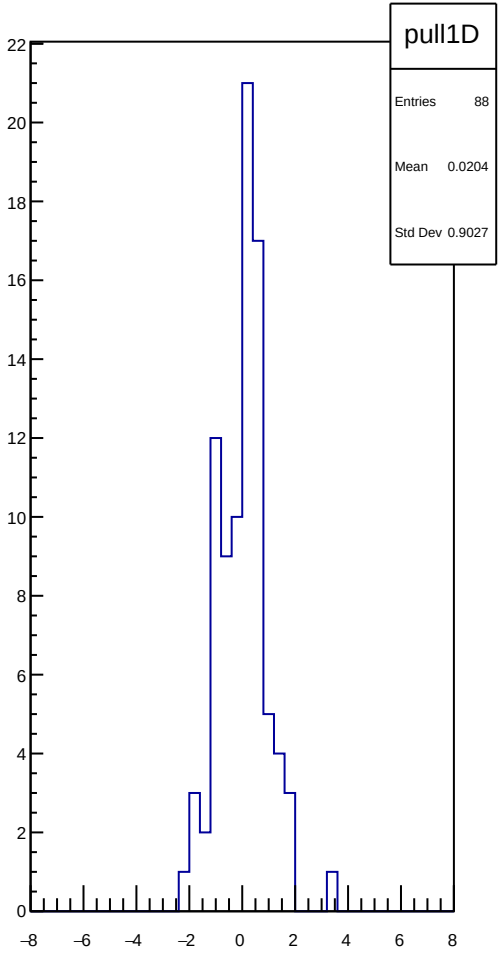

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 73.2 / 87
p0 3.92 ± 34.16
1500
1000
500
0
−500
−1000
pull
Entries 88
Mean −96.35
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01693
Std Dev 0.9119
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

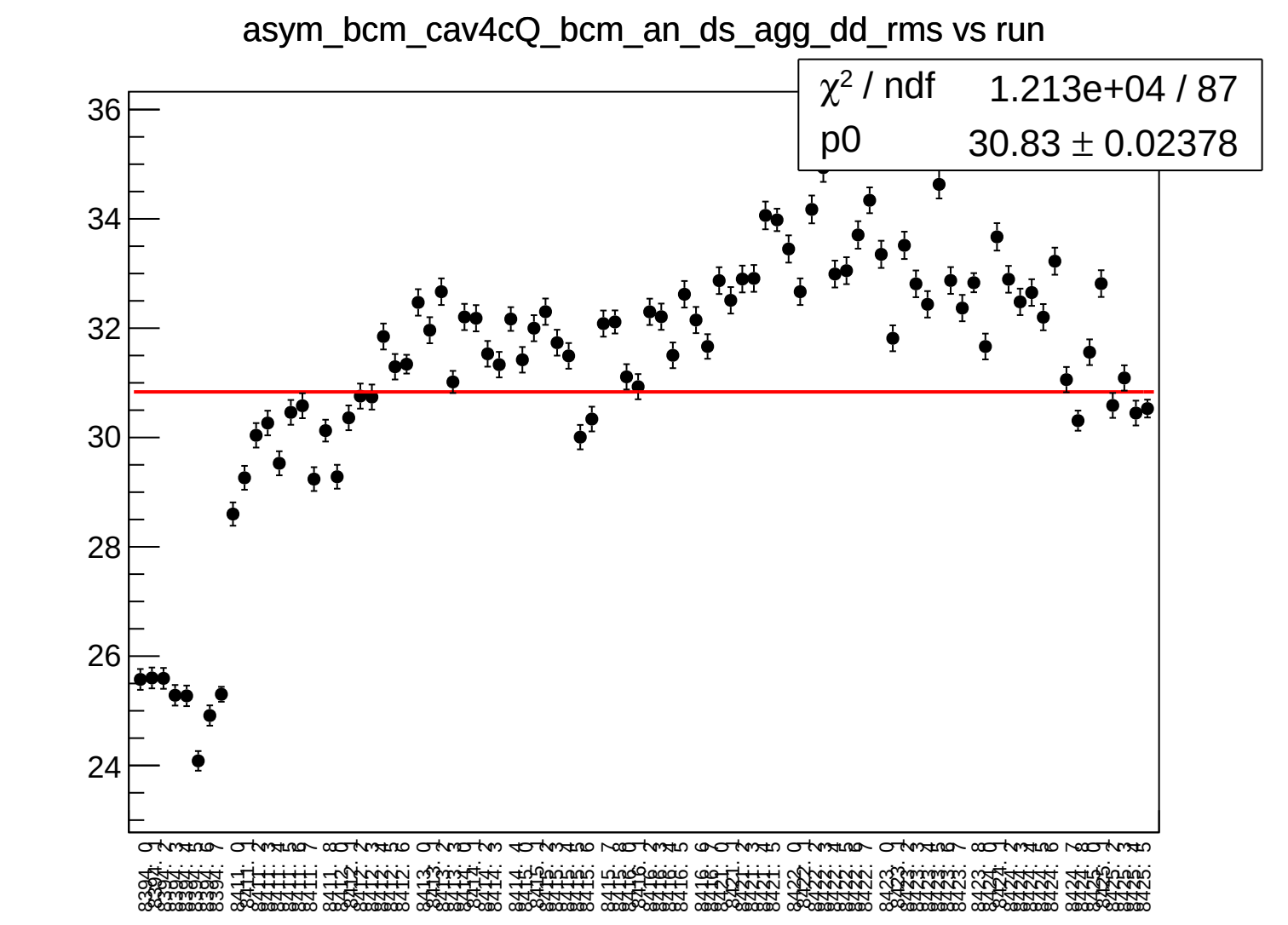

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1.12e+04 / 87
p0 31.32 ± 0.02416
36
34
32
30
28
26
24

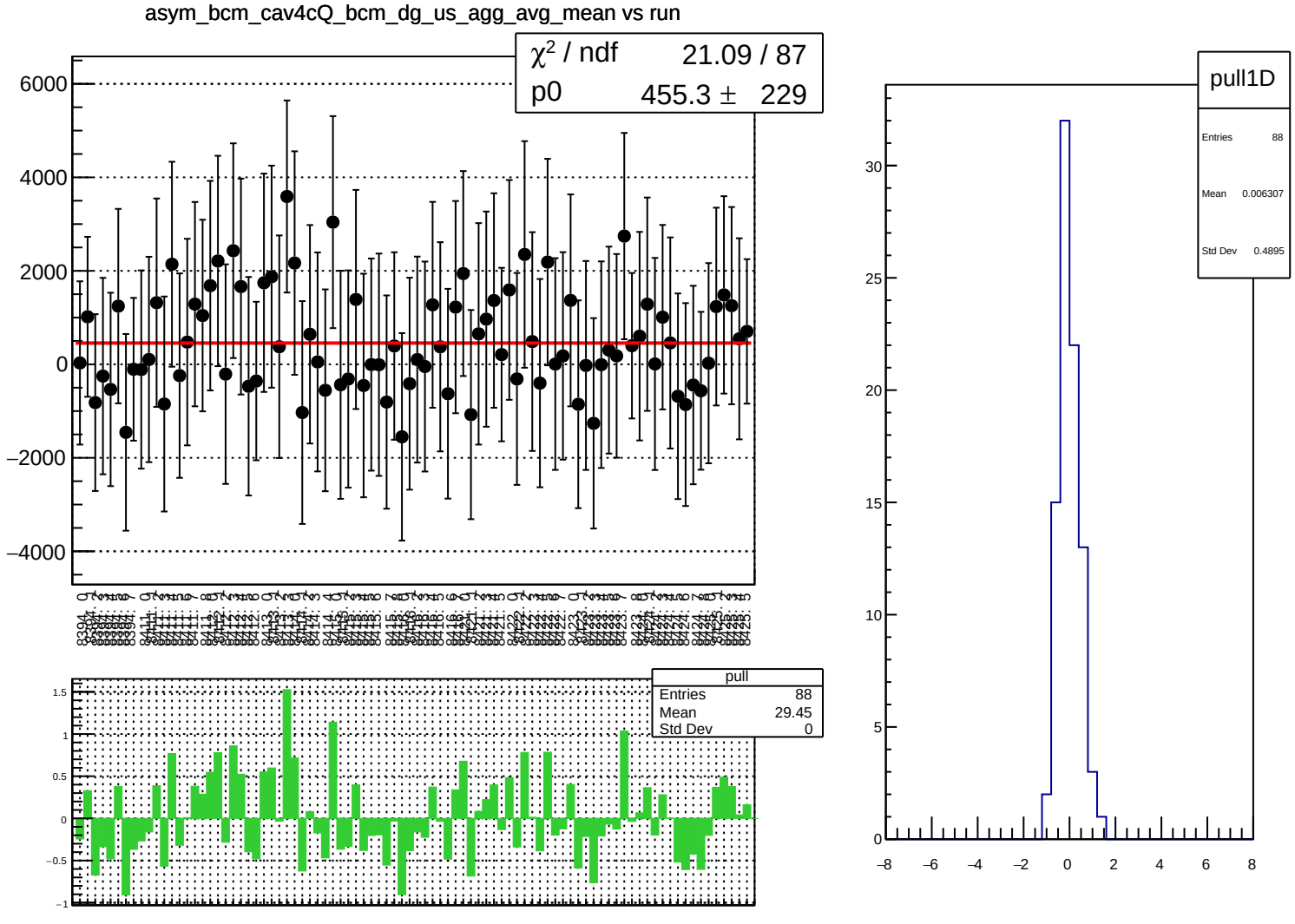

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 20.49 / 87
p0 473.9 ± 227.5
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 26.57
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.004909
Std Dev 0.4825
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

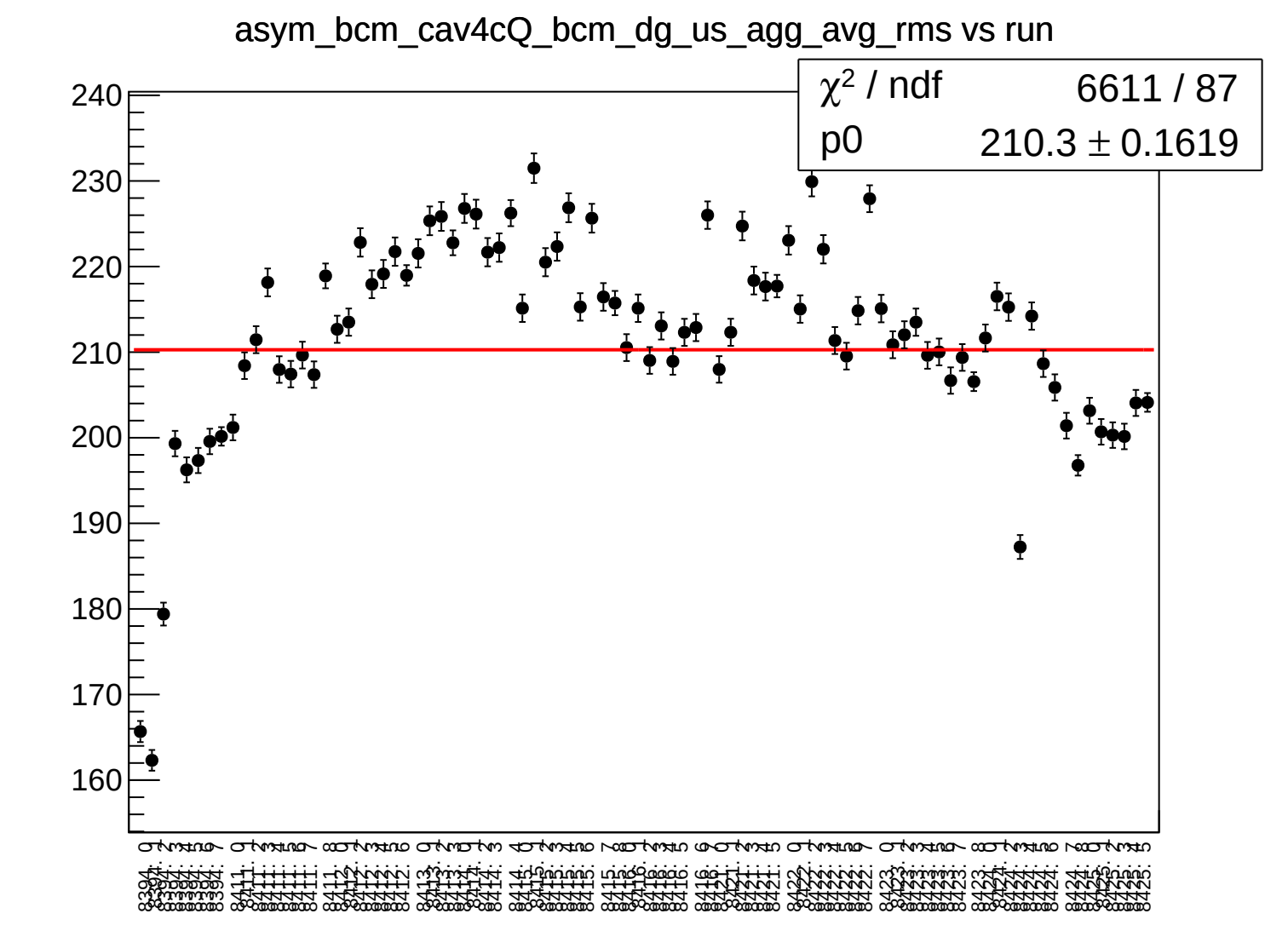

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 6371 / 87
p0 208.9 ± 0.1608
230
220
210
200
190
180
170
160

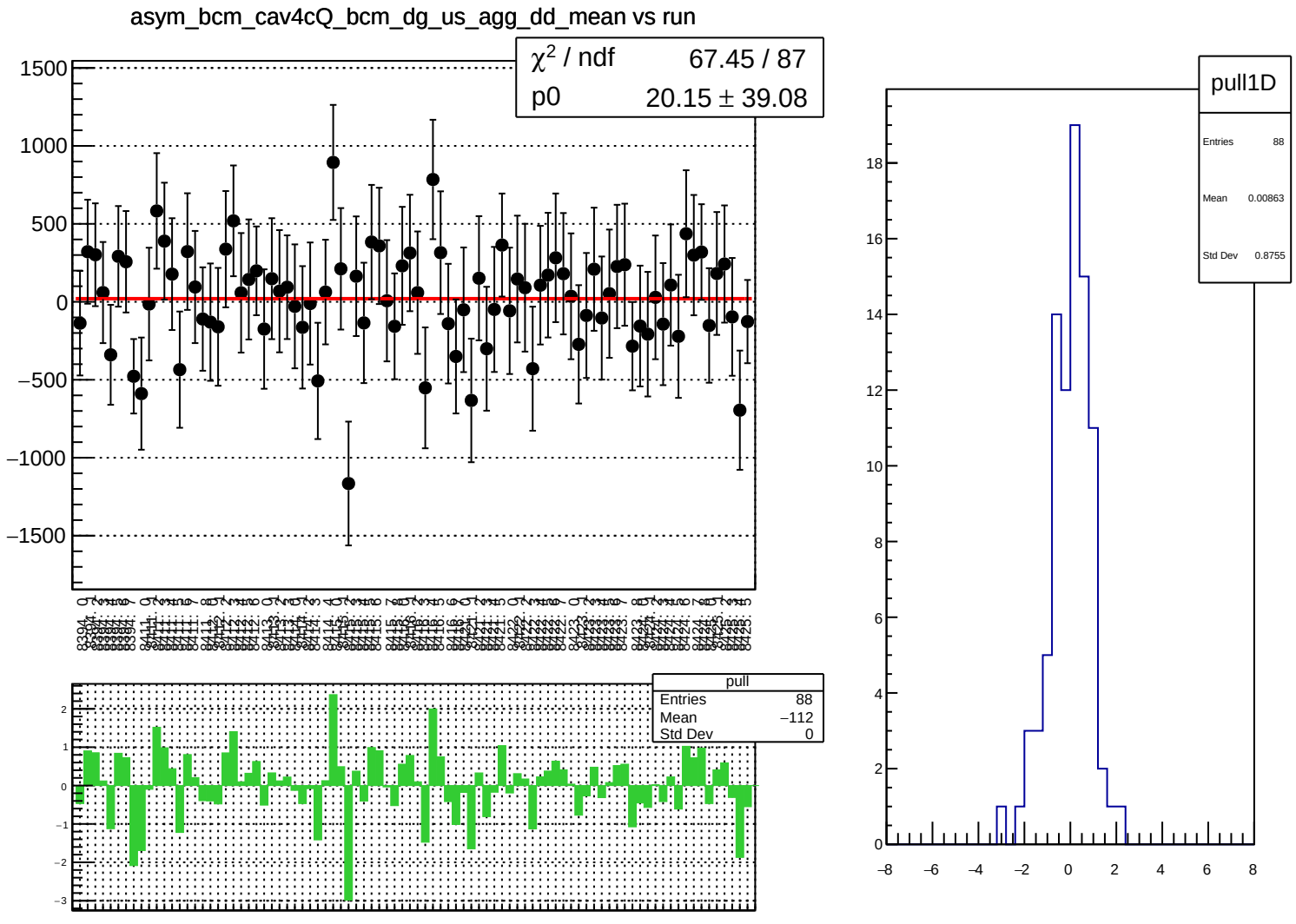

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 71.75 / 87
p0 1.173 ± 33.64
1500
1000
500
0
−500
−1000
pull
Entries 88
Mean −26.44
Std Dev 0
3
2
1
0
−1
−2

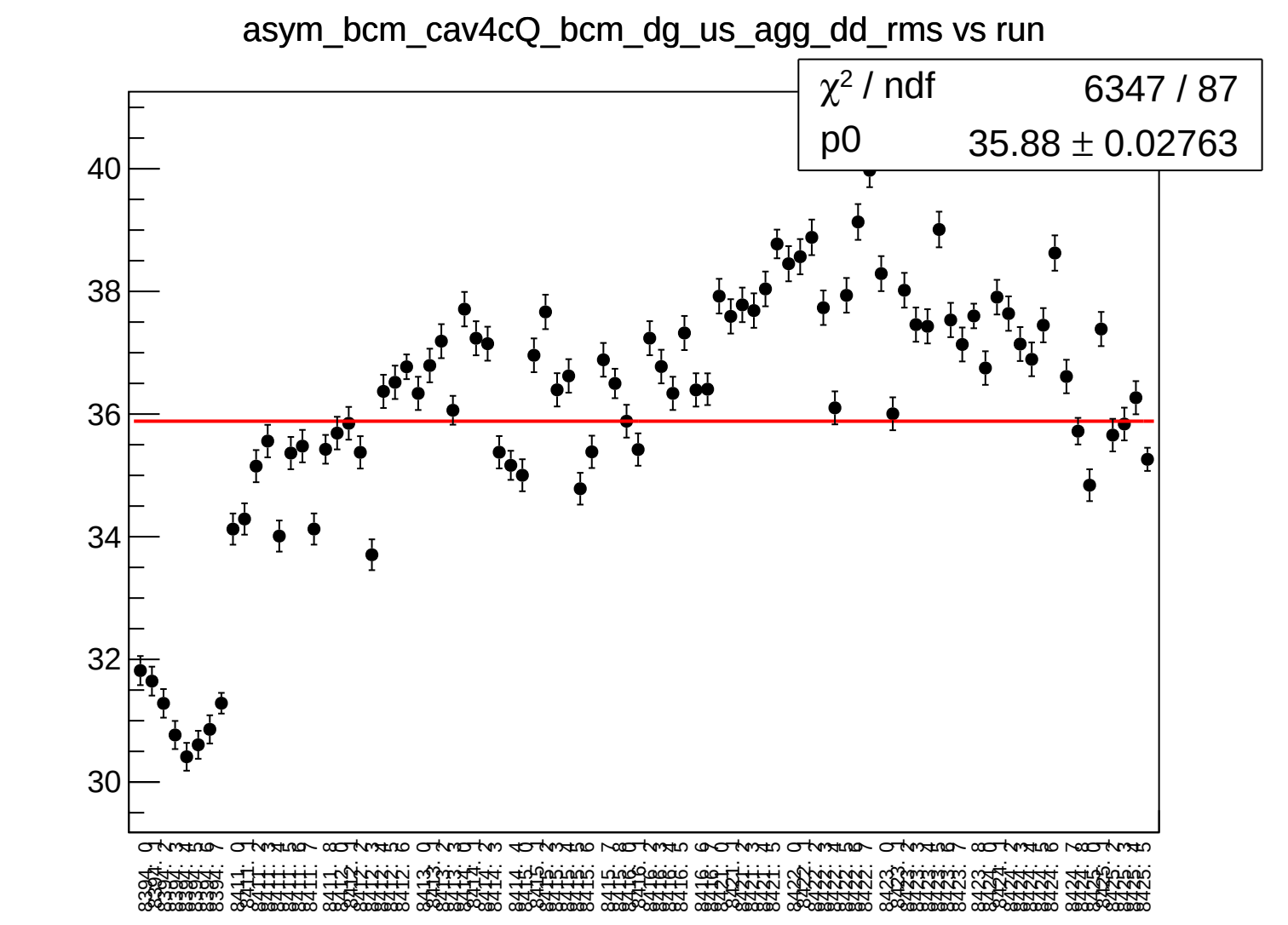

pull1D
Entries 88
Mean 0.0204
Std Dev 0.9027
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

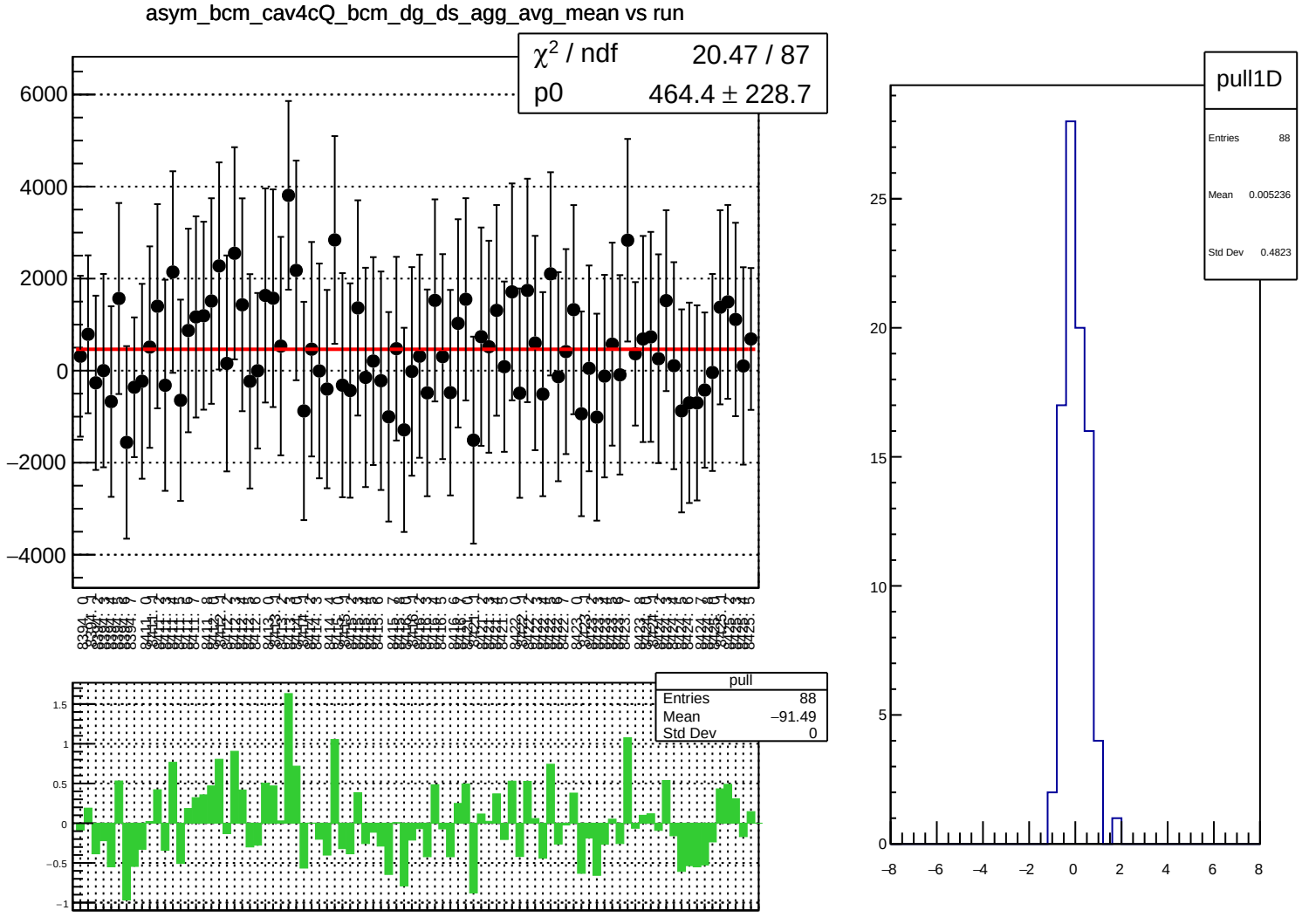

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.213e+04 / 87
p0 30.83 ± 0.02378
36
34
32
30
28
26
24

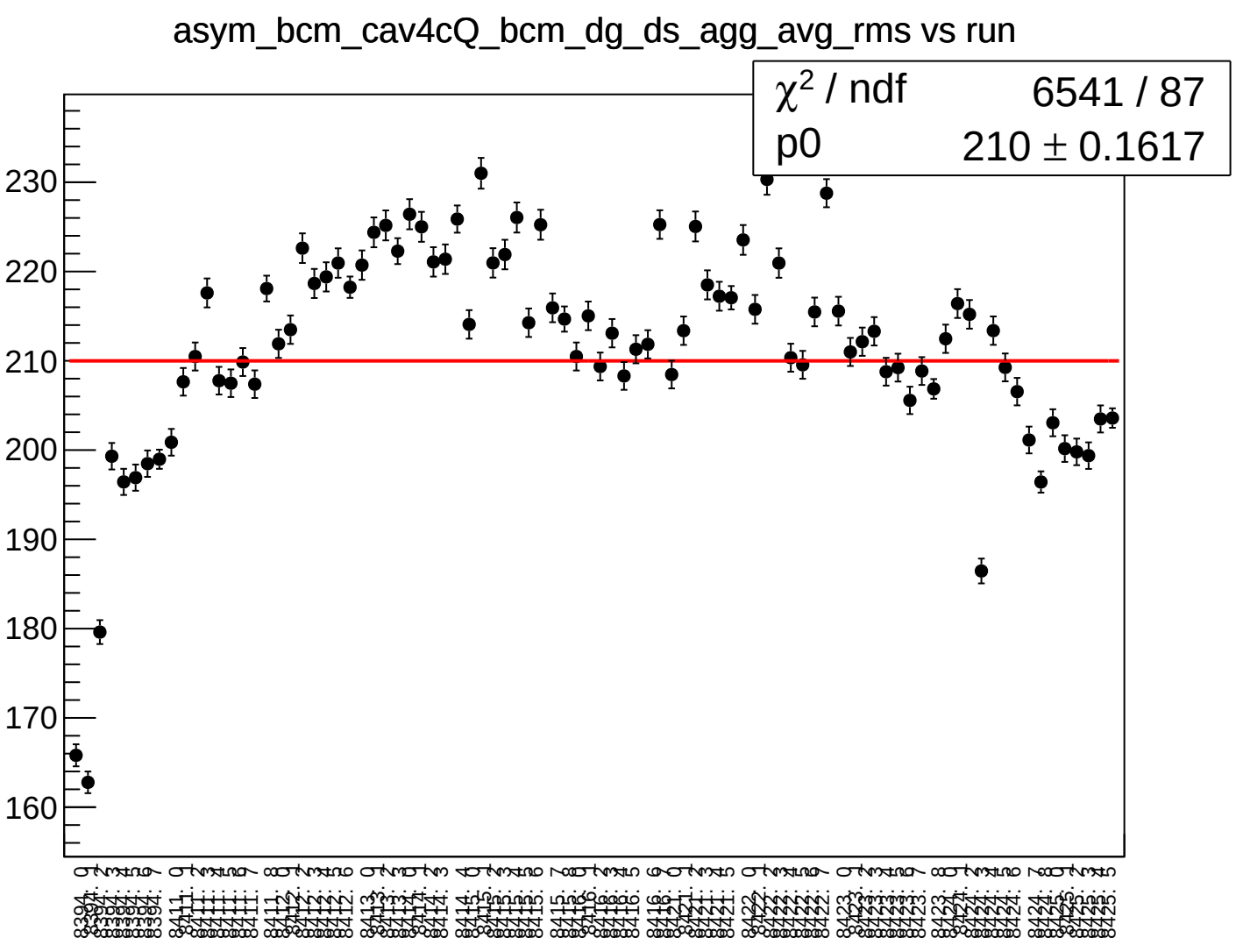

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 21.09 / 87
p0 455.3 ± 229
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 29.45
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.006307
Std Dev 0.4895
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

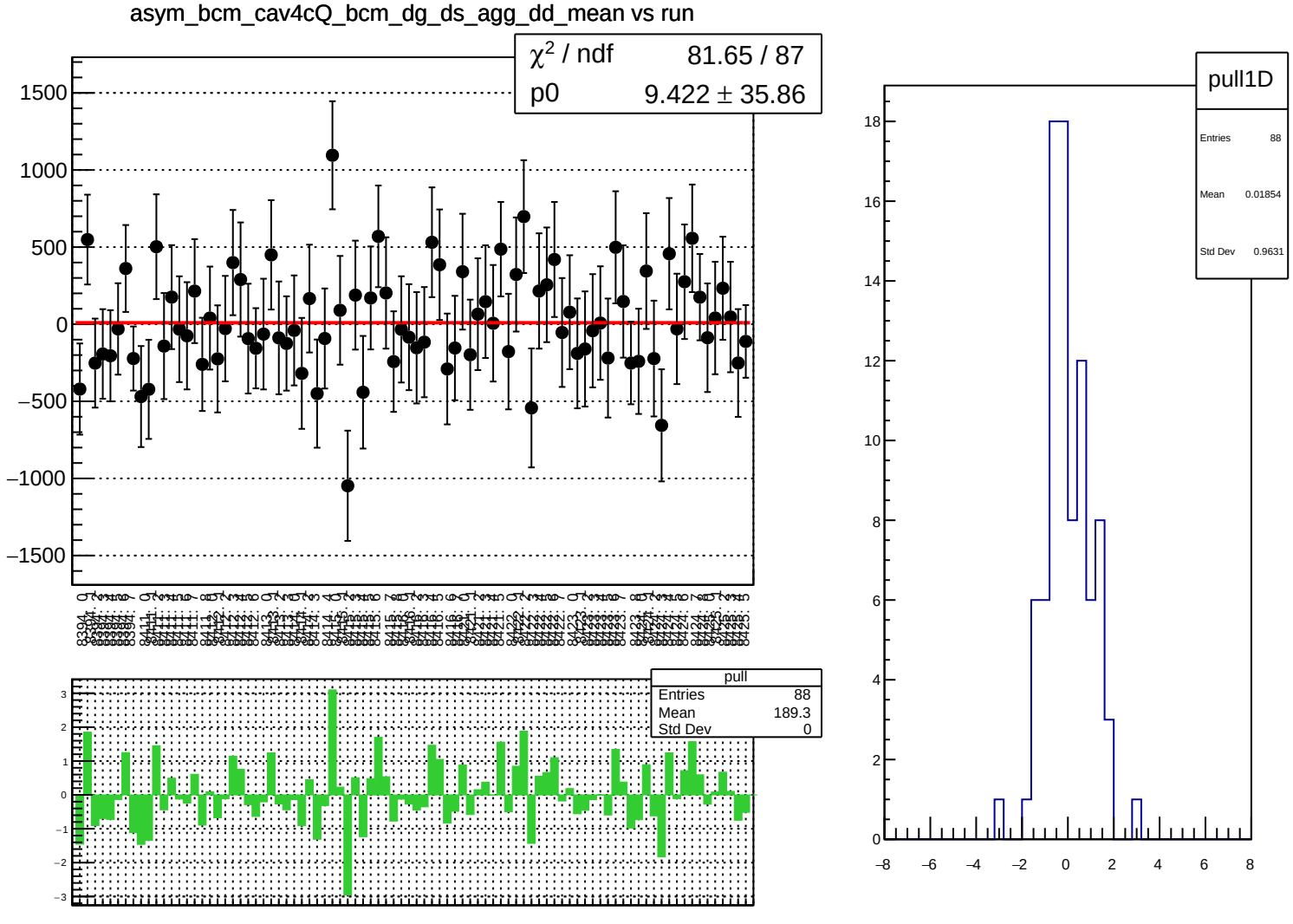

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 6611 / 87
p0 210.3 ± 0.1619
240
230
220
210
200
190
180
170
160

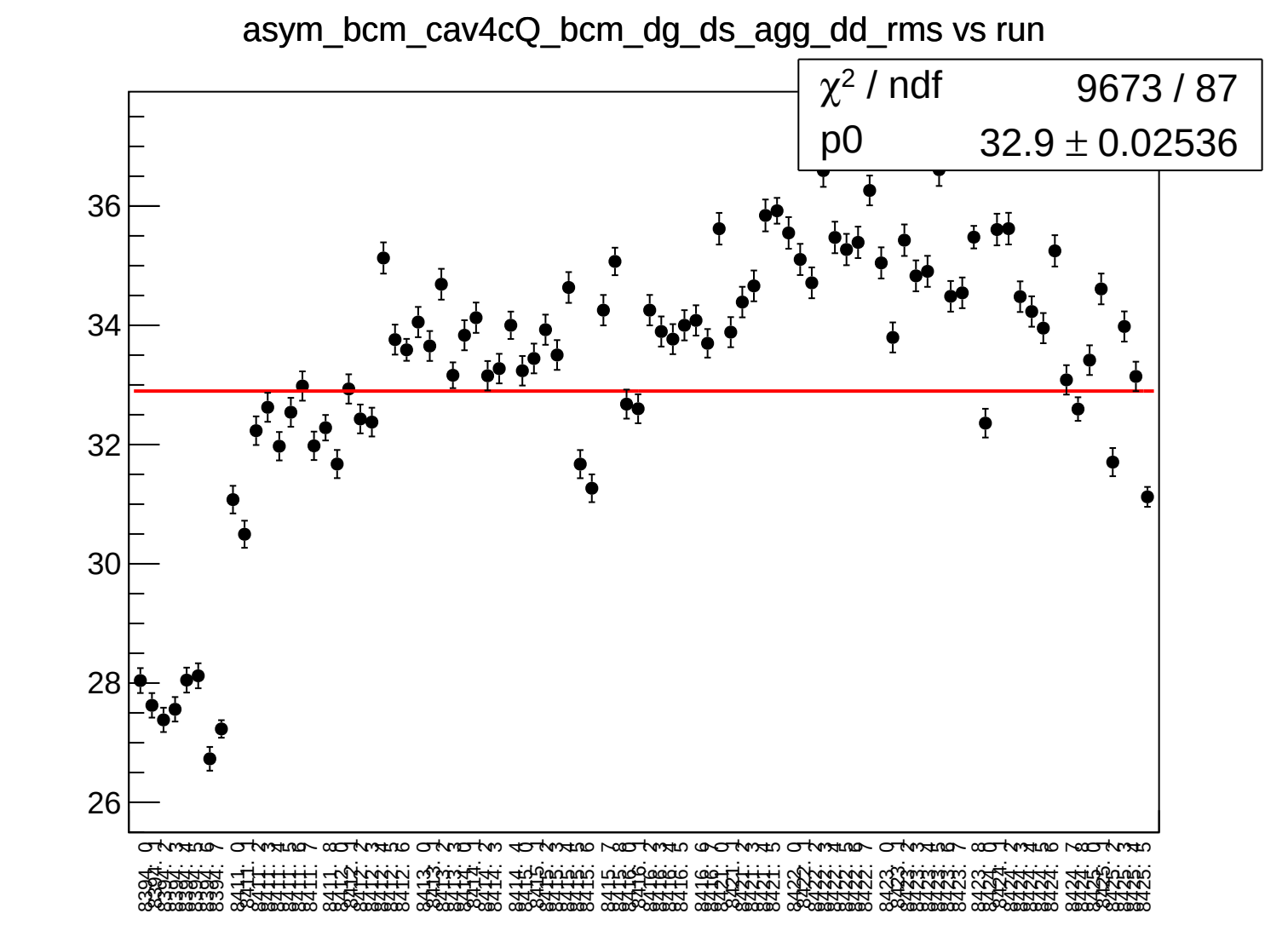

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 67.45 / 87
p0 20.15 ± 39.08
1500
1000
500
0
−500
−1000
−1500
pull
Entries 88
Mean −112
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.00863
Std Dev 0.8755
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

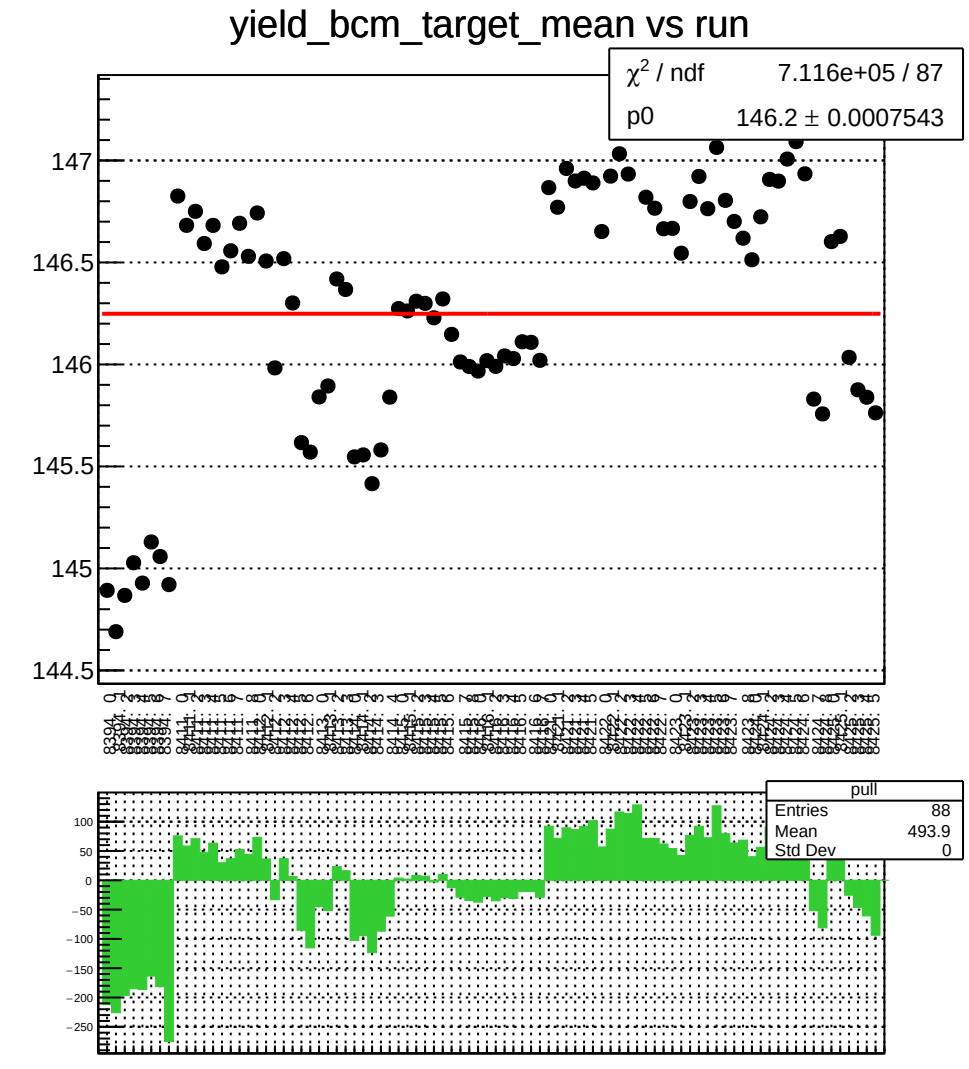

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 6347 / 87
p0 35.88 ± 0.02763
40
38
36
34
32
30

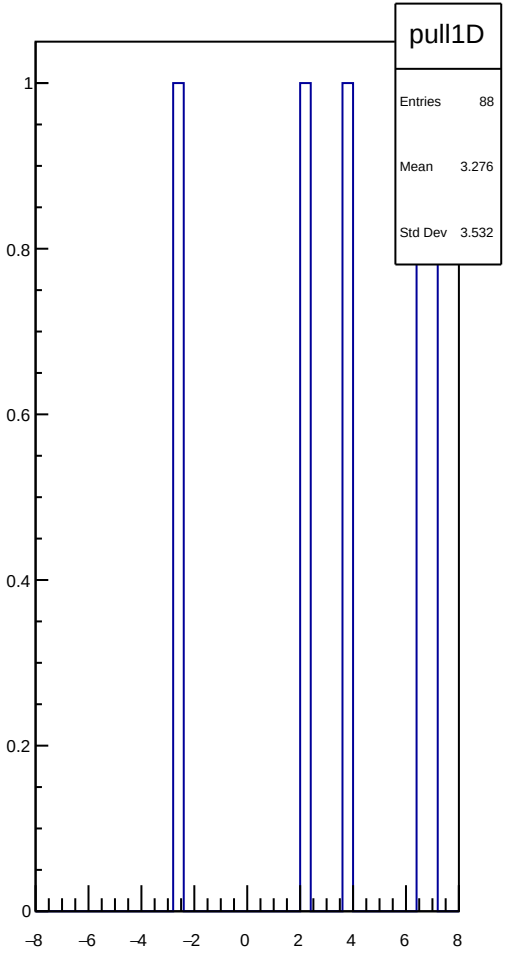

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 20.47 / 87
p0 464.4 ± 228.7
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −91.49
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.005236
Std Dev 0.4823
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

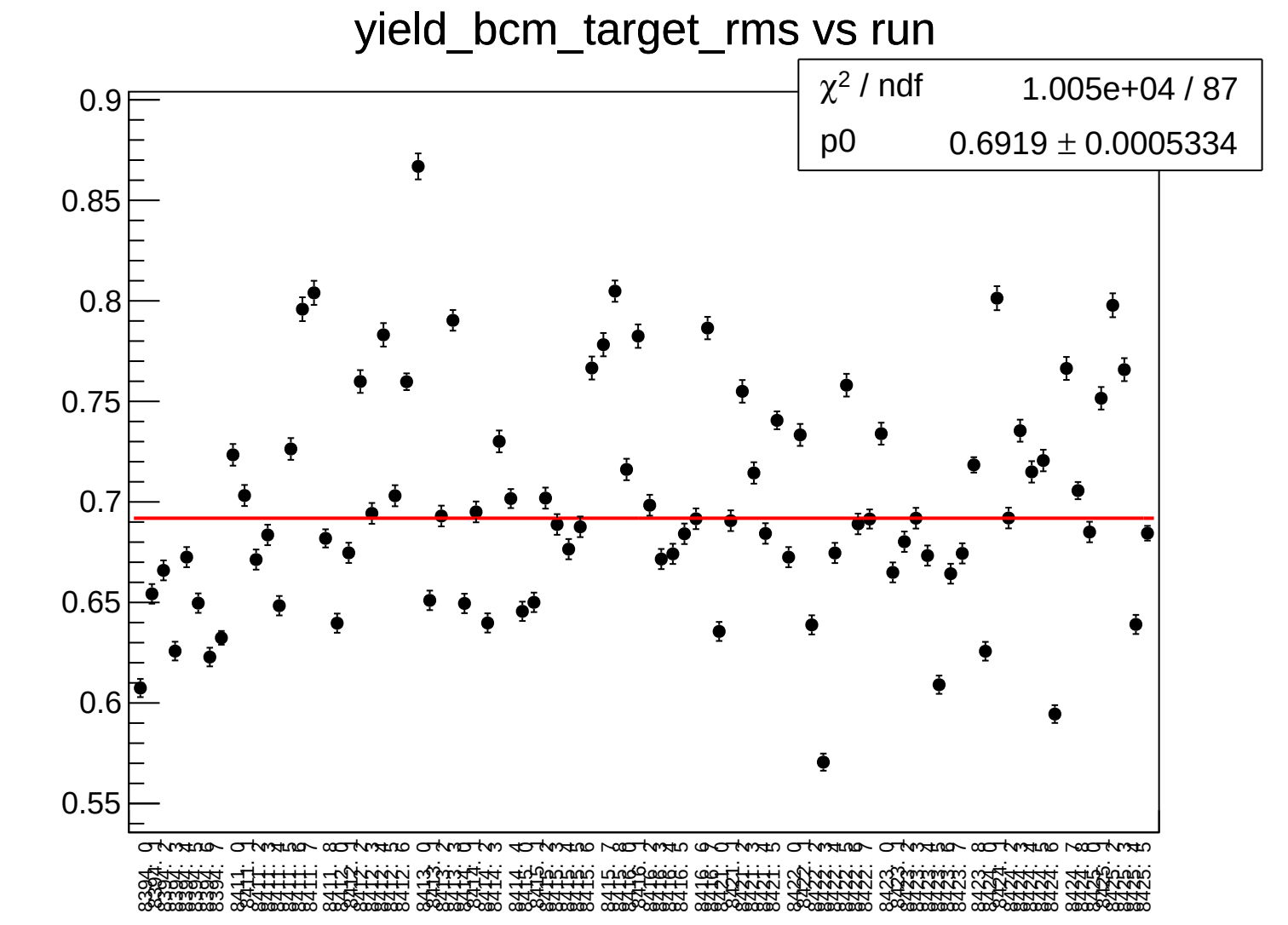

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 6541 / 87
p0 210 ± 0.1617
230
220
210
200
190
180
170
160

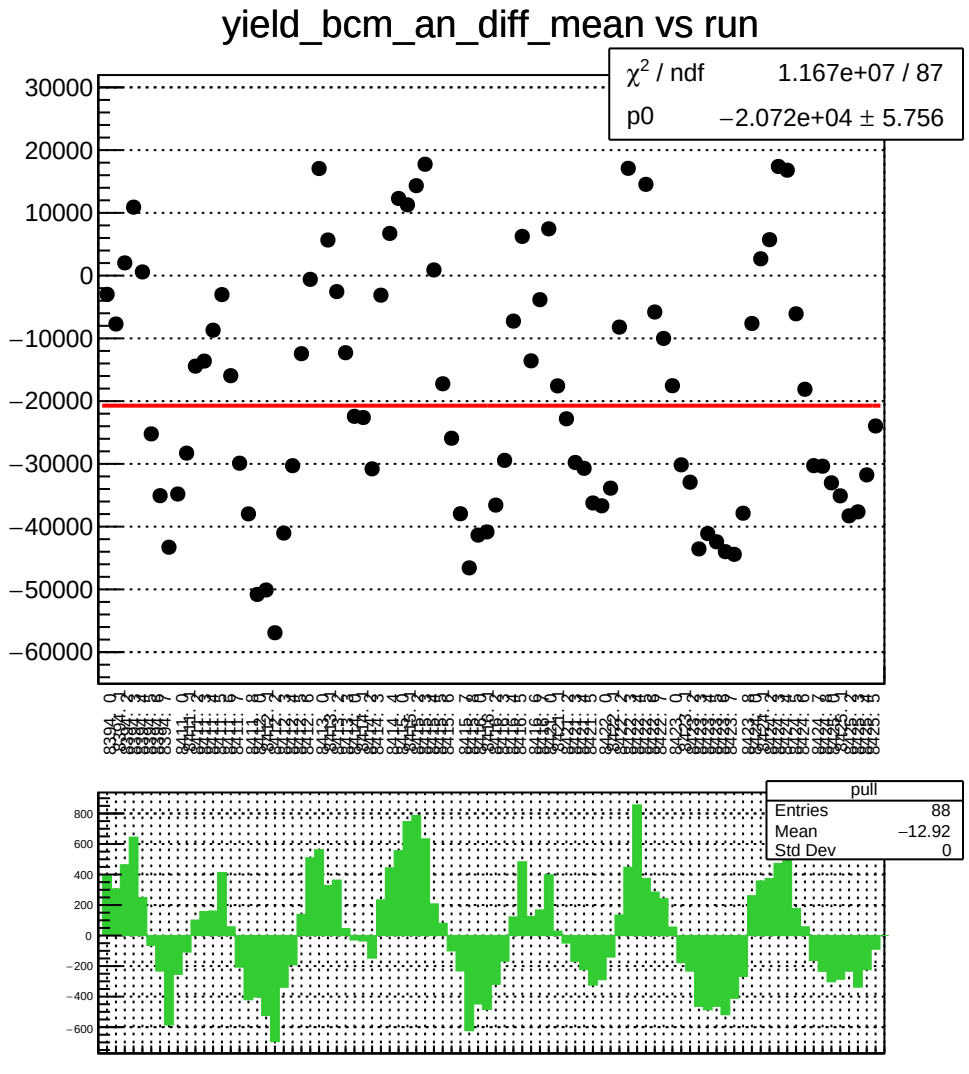

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 81.65 / 87
p0 9.422 ± 35.86
1500
1000
500
0
−500
−1000
−1500
pull
Entries 88
Mean 189.3
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.01854
Std Dev 0.9631
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

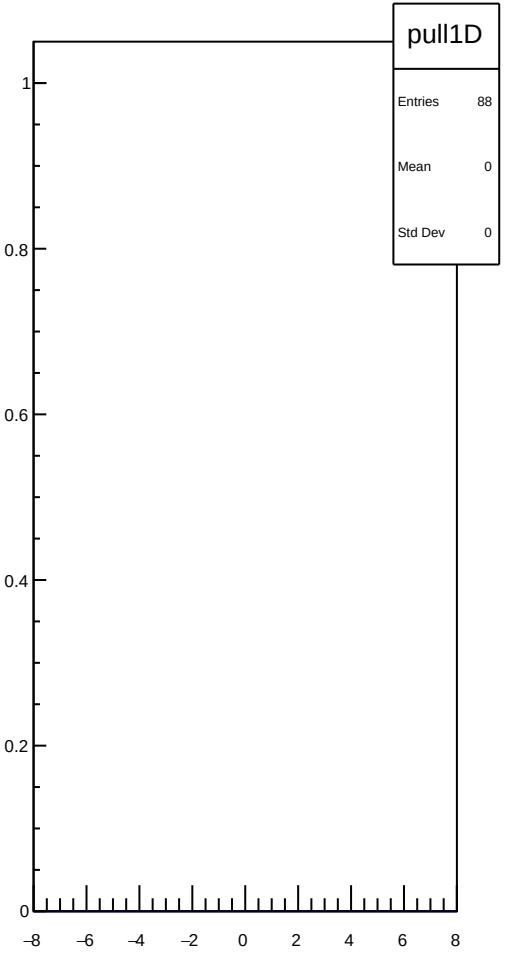

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 9673 / 87
p0 32.9 ± 0.02536
36
34
32
30
28
26

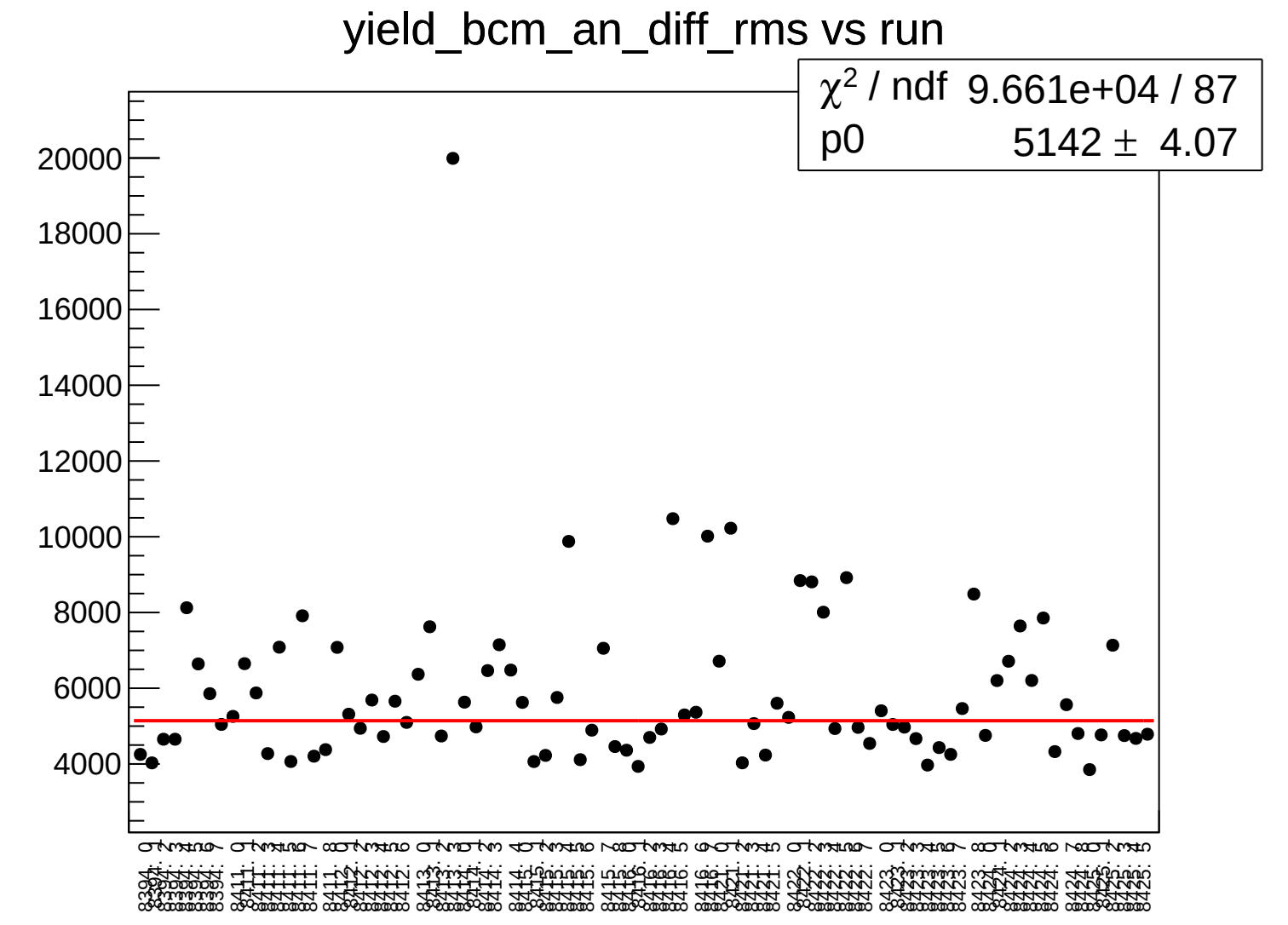

yield_bcm_target_mean vs run
χ² / ndf 7.116e+05 / 87
p0 146.2 ± 0.0007543
147
146.5
146
145.5
145
144.5
pull
Entries 88
Mean 493.9
Std Dev 0
100
50
0
−50
−100
−150
−200
−250

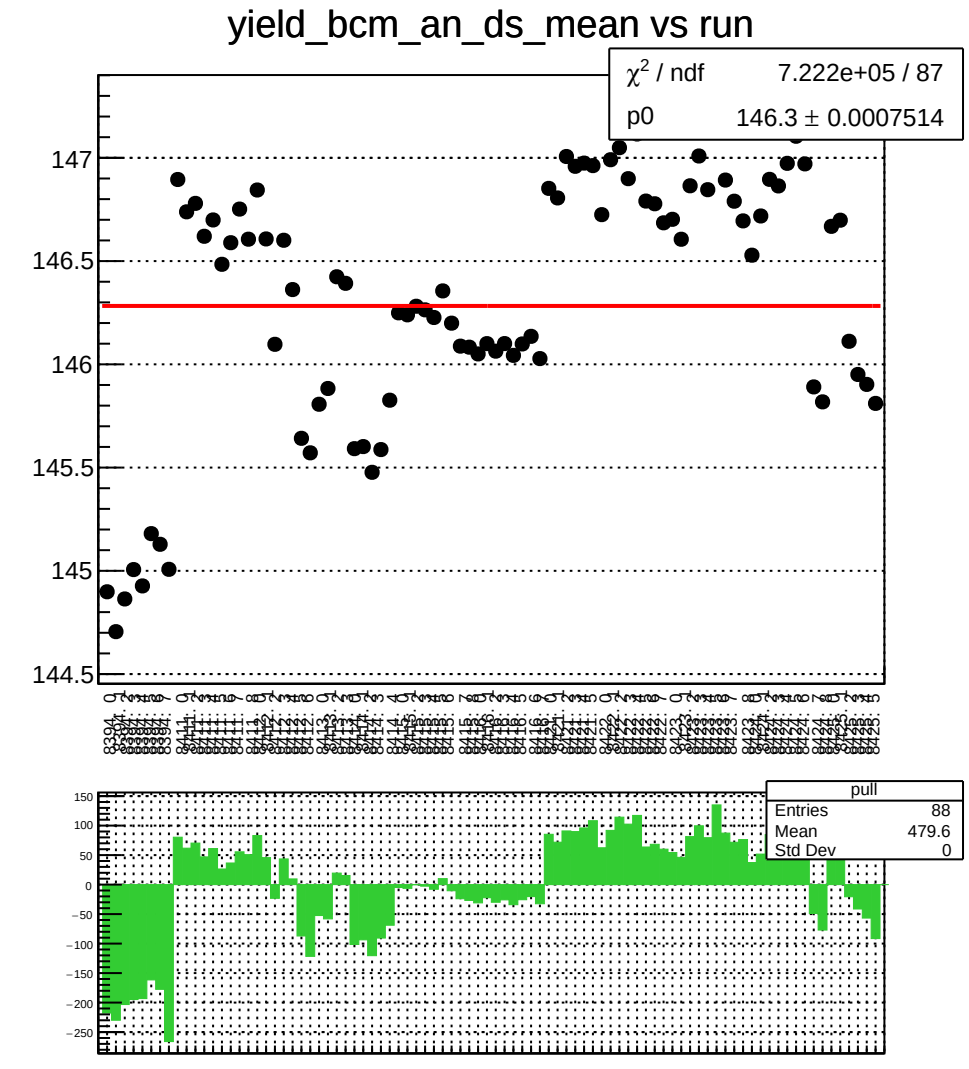

pull1D
Entries 88
Mean 3.276
Std Dev 3.532
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

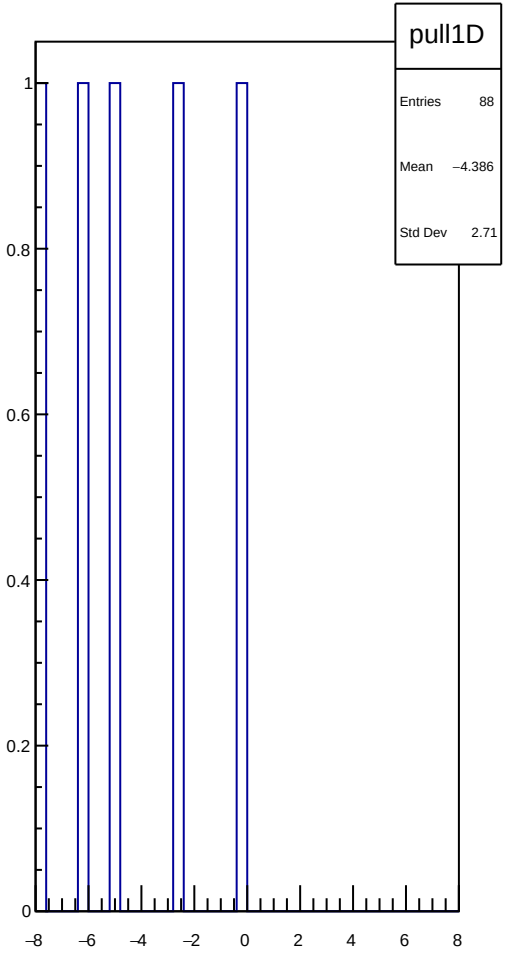

yield_bcm_target_rms vs run
χ² / ndf 1.005e+04 / 87
p0 0.6919 ± 0.0005334
0.9
0.85
0.8
0.75
0.7
0.65
0.6
0.55

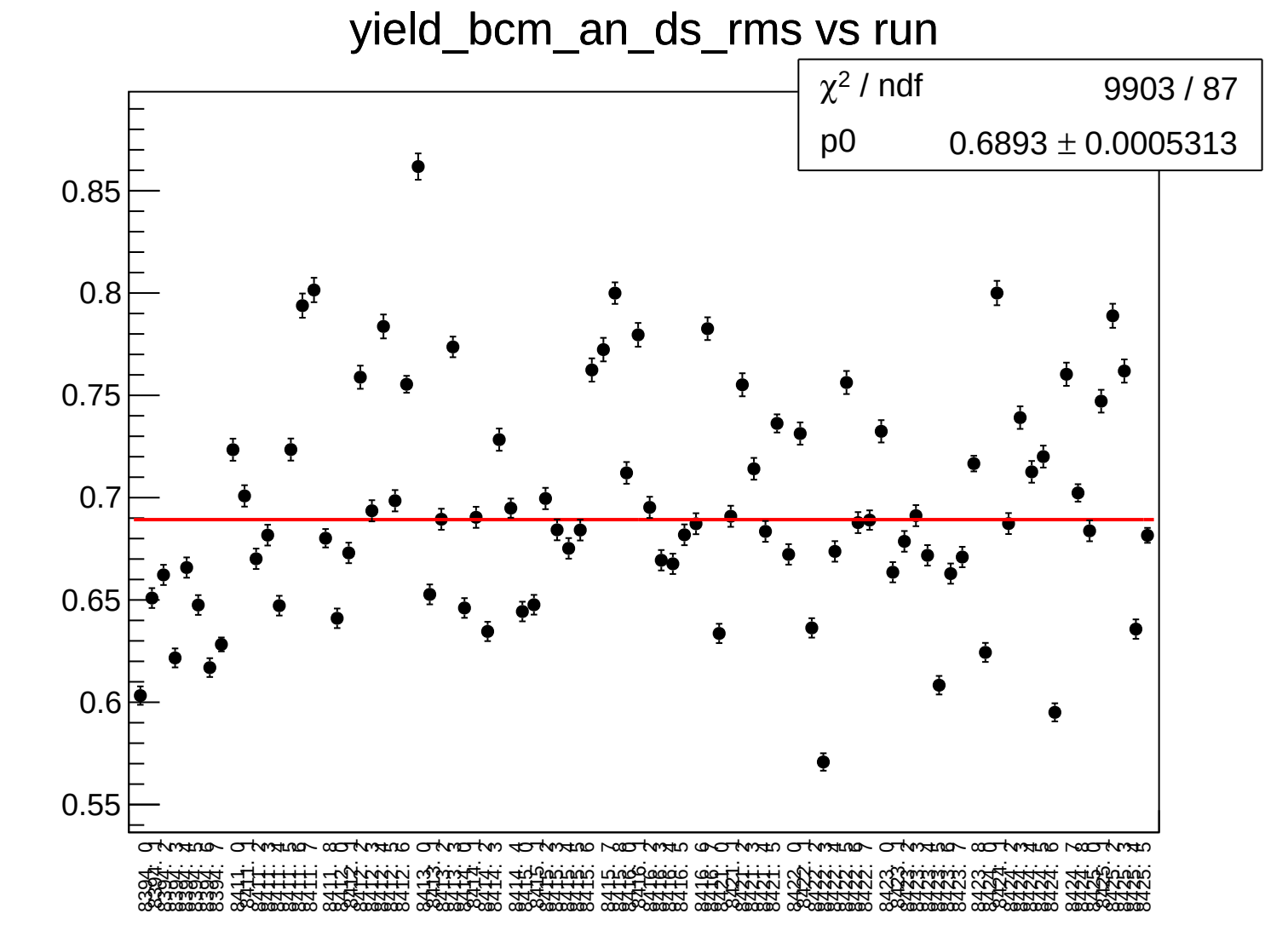

yield_bcm_an_diff_mean vs run
χ² / ndf 1.167e+07 / 87
p0 −2.072e+04 ± 5.756
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
−60000
pull
Entries 88
Mean −12.92
Std Dev 0
800
600
400
200
0
−200
−400
−600

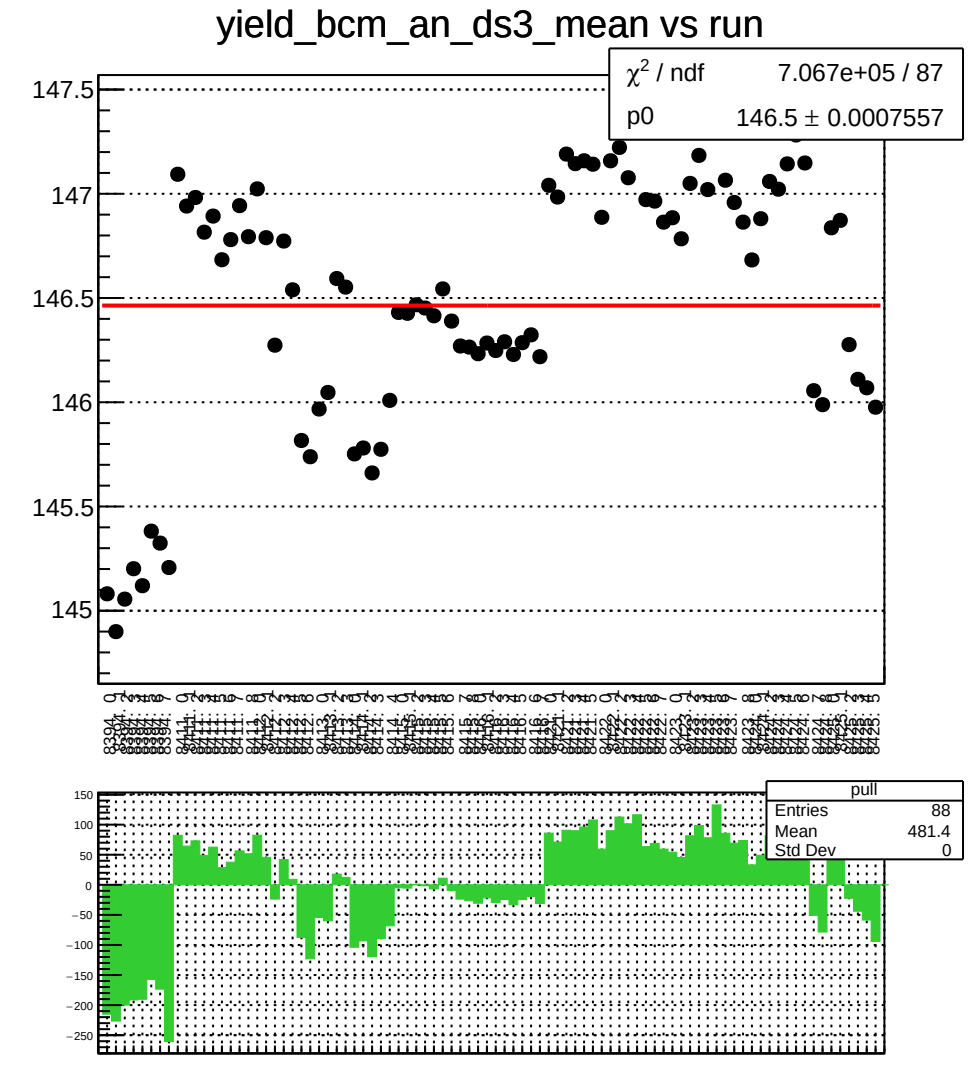

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

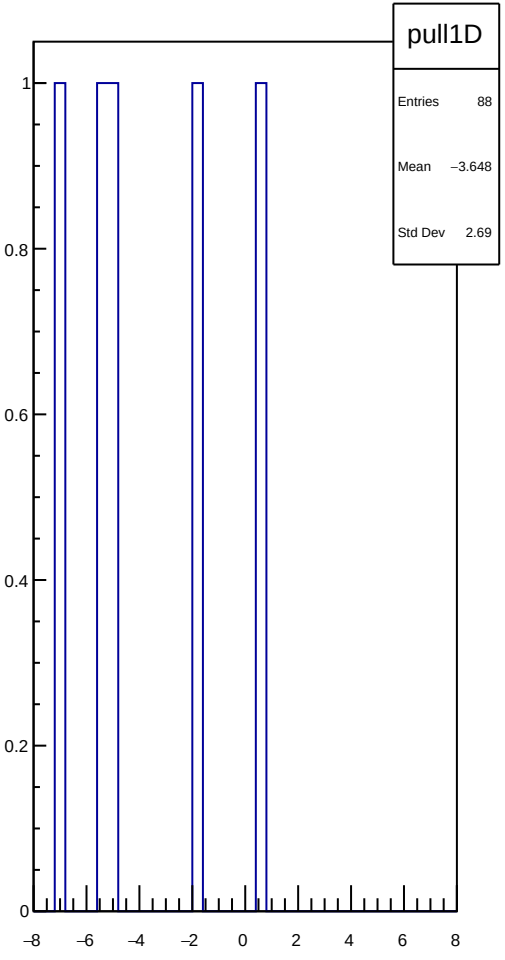

yield_bcm_an_diff_rms vs run
χ^2 / ndf 9.661e+04 / 87
p0 5142 ± 4.07
20000
18000
16000
14000
12000
10000
8000
6000
4000

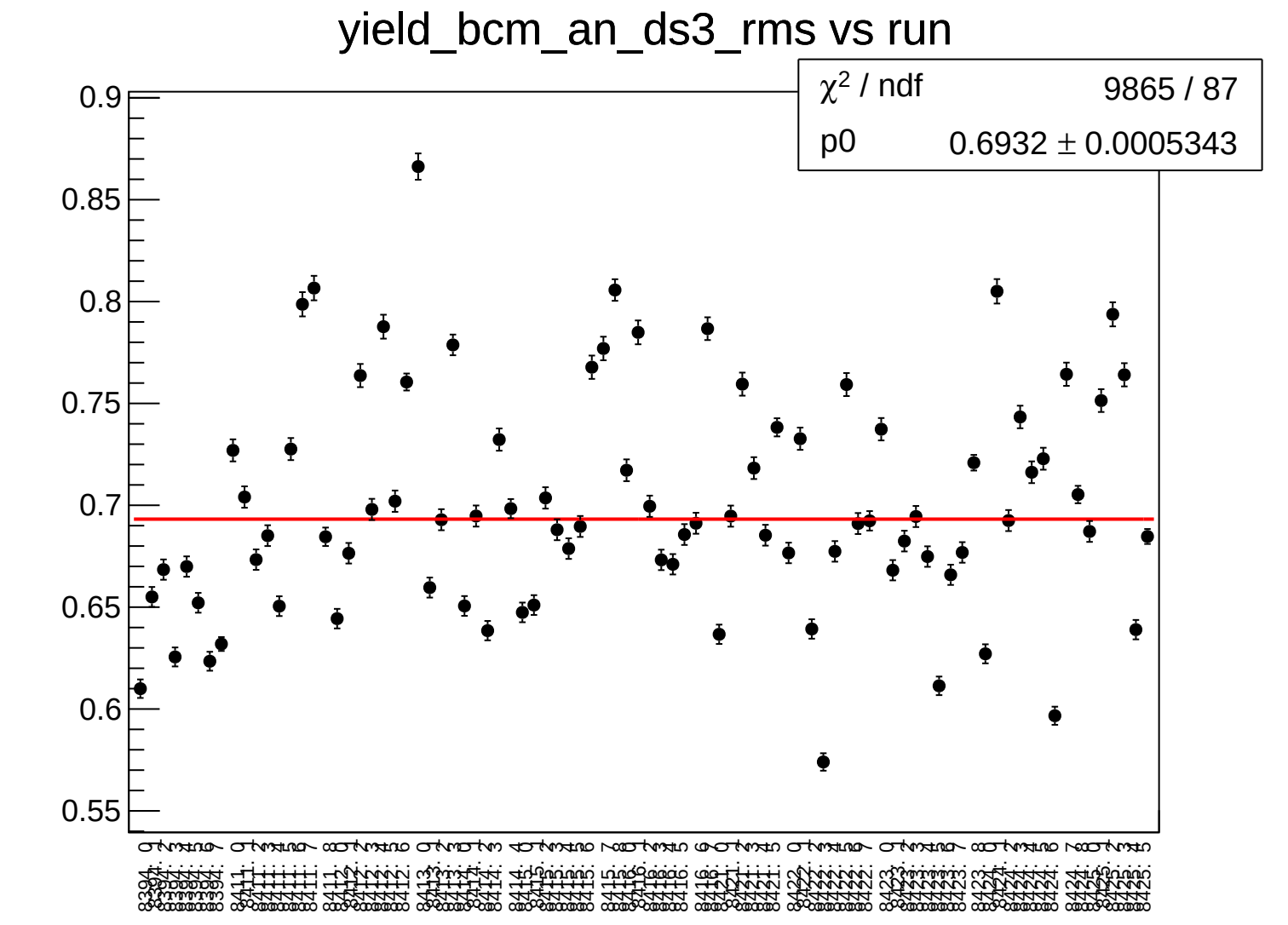

yield_bcm_an_ds_mean vs run
χ² / ndf 7.222e+05 / 87
p0 146.3 ± 0.0007514
147
146.5
146
145.5
145
144.5
pull
Entries 88
Mean 479.6
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

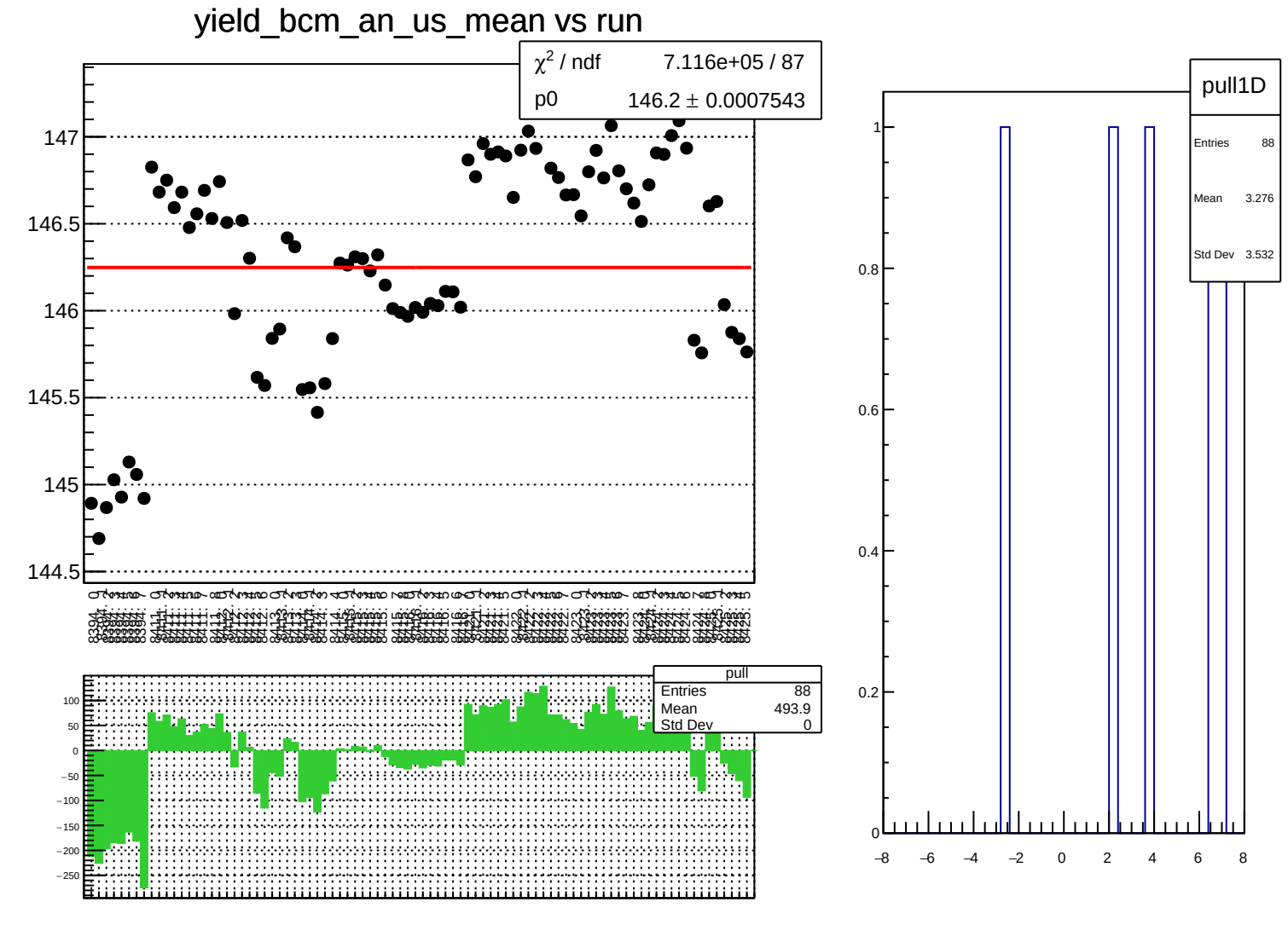

pull1D
Entries 88
Mean −4.386
Std Dev 2.71
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

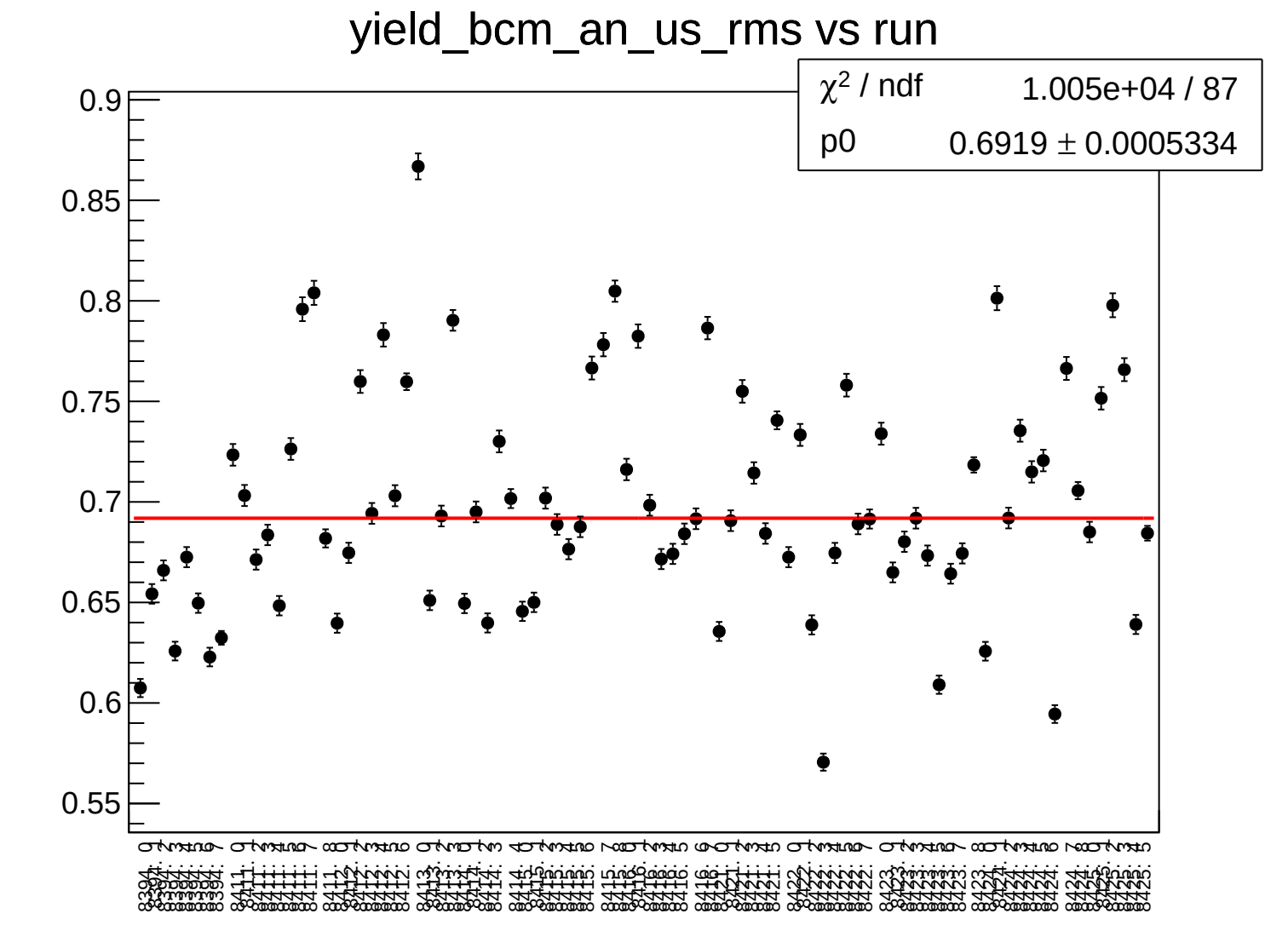

yield_bcm_an_ds_rms vs run
χ^2 / ndf 9903 / 87
p0 0.6893 ± 0.0005313
0.85
0.8
0.75
0.7
0.65
0.6
0.55

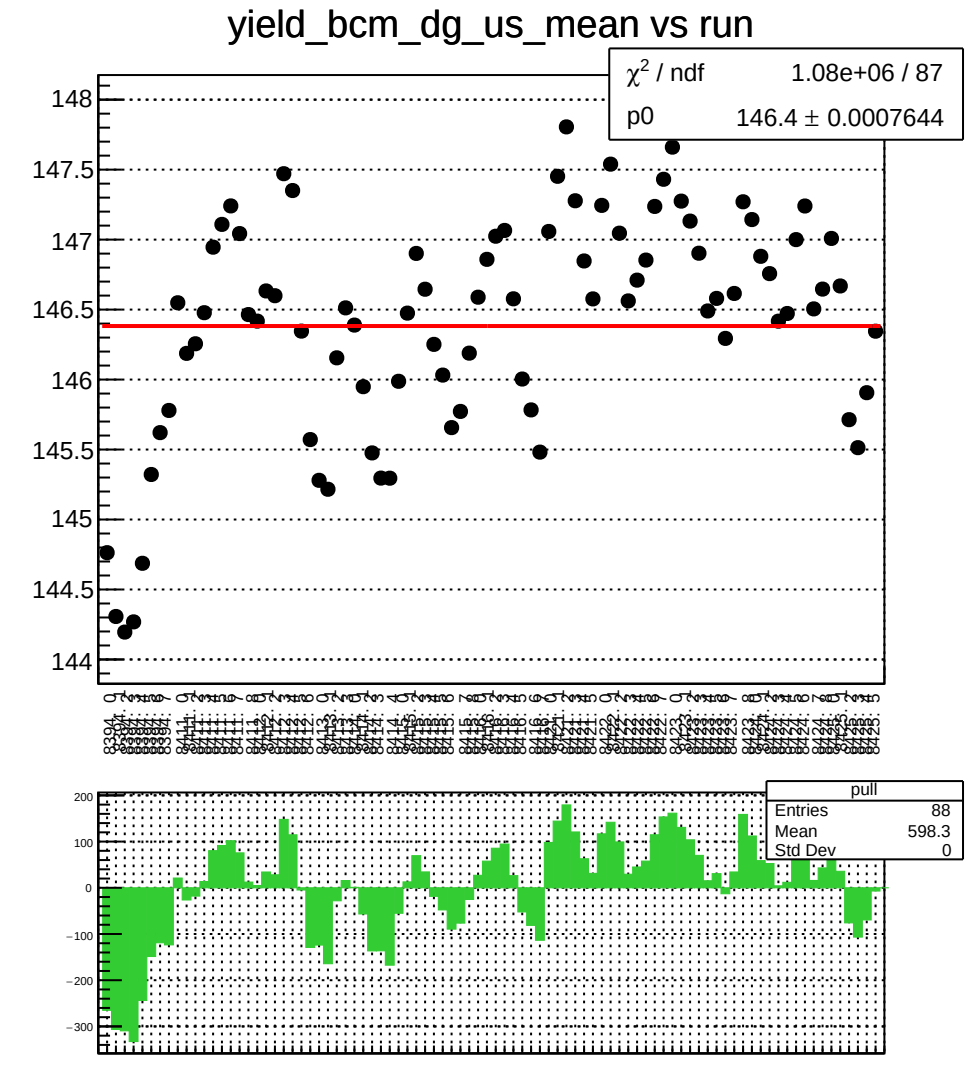

yield_bcm_an_ds3_mean vs run
χ² / ndf 7.067e+05 / 87
p0 146.5 ± 0.0007557
147.5
147
146.5
146
145.5
145
pull
Entries 88
Mean 481.4
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

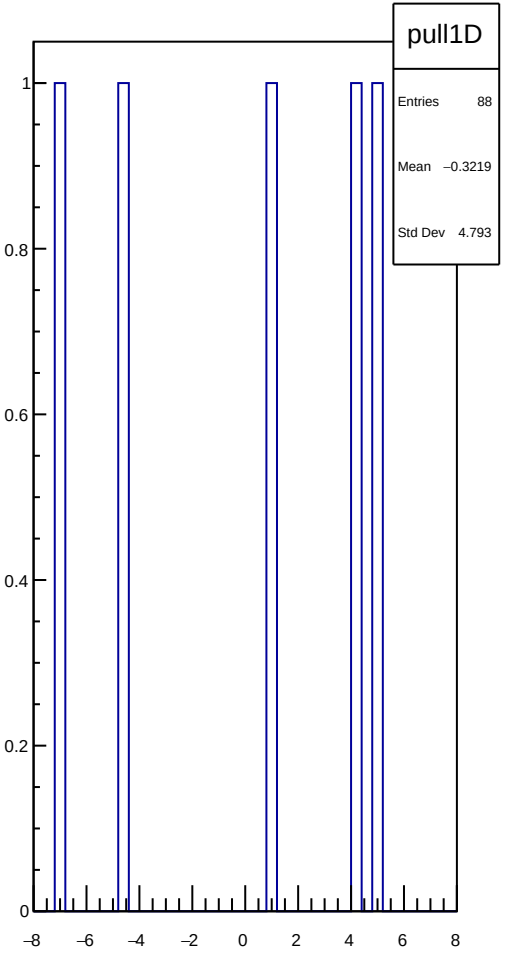

pull1D
Entries 88
Mean −3.648
Std Dev 2.69
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

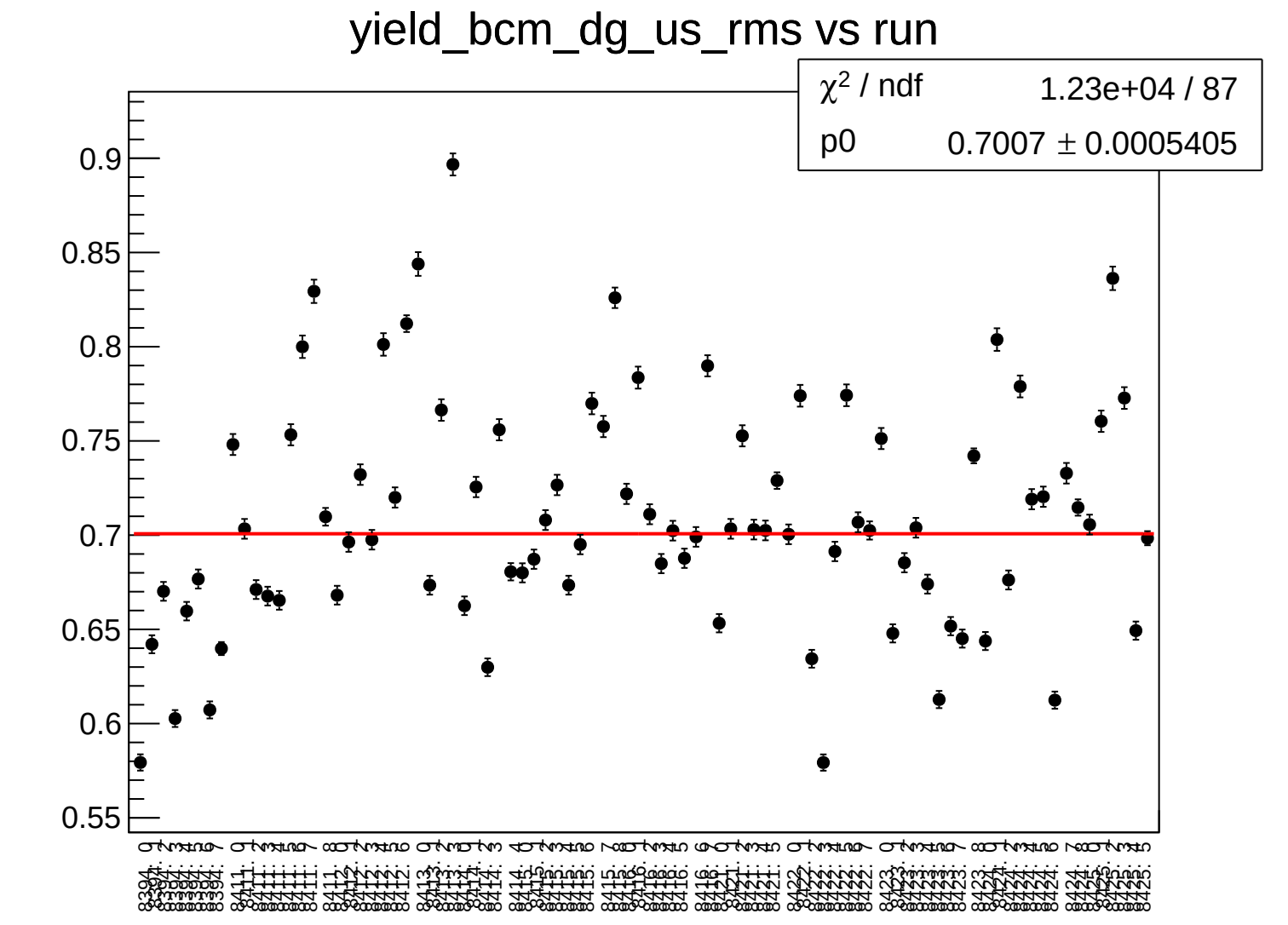

yield_bcm_an_ds3_rms vs run
χ² / ndf 9865 / 87
p0 0.6932 ± 0.0005343
0.9
0.85
0.8
0.75
0.7
0.65
0.6
0.55

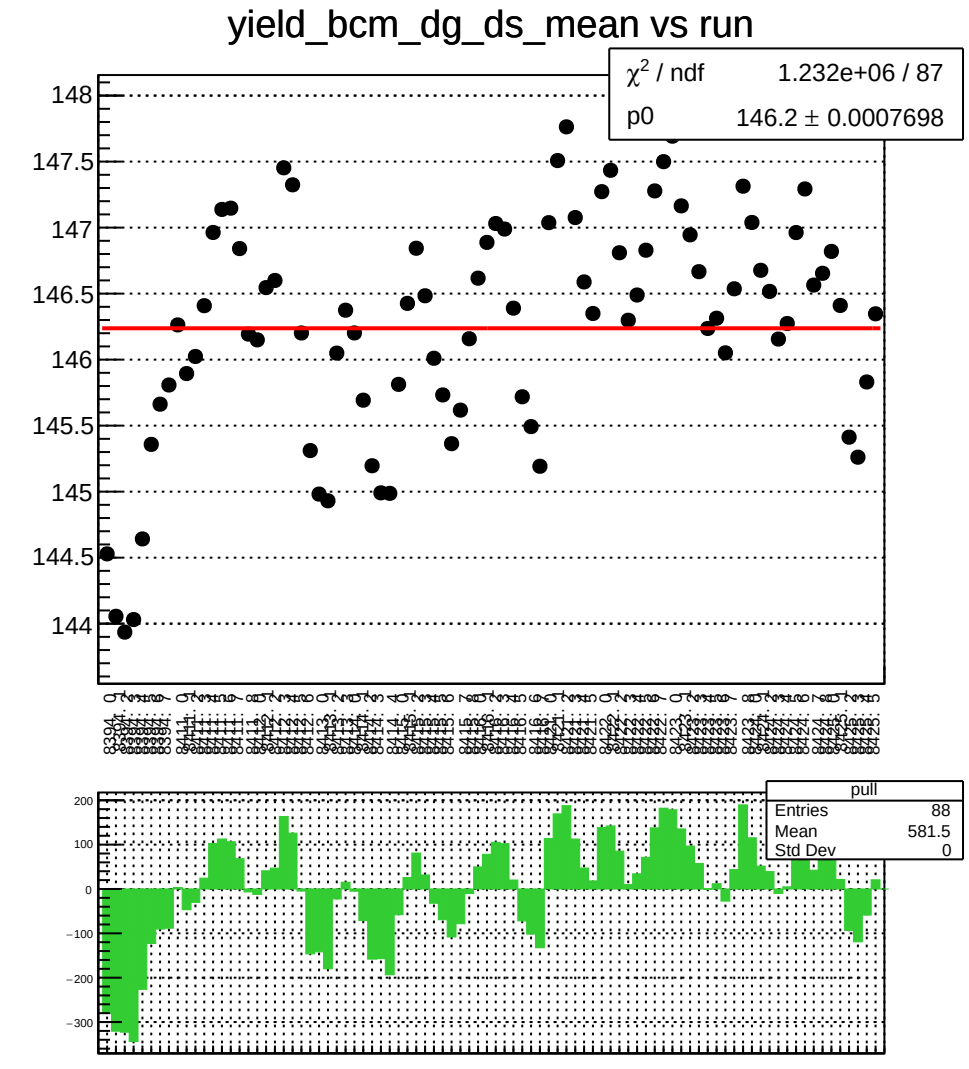

yield_bcm_an_us_mean vs run
χ² / ndf 7.116e+05 / 87
p0 146.2 ± 0.0007543
147
146.5
146
145.5
145
144.5
pull
Entries 88
Mean 493.9
Std Dev 0
100
50
0
−50
−100
−150
−200
−250
pull1D
Entries 88
Mean 3.276
Std Dev 3.532
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

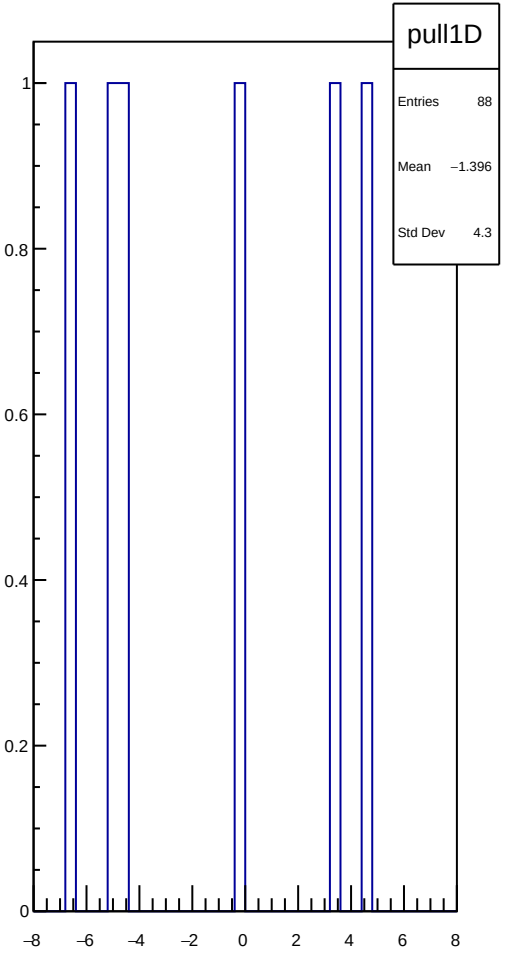

yield_bcm_an_us_rms vs run
χ² / ndf 1.005e+04 / 87
p0 0.6919 ± 0.0005334
0.9
0.85
0.8
0.75
0.7
0.65
0.6
0.55

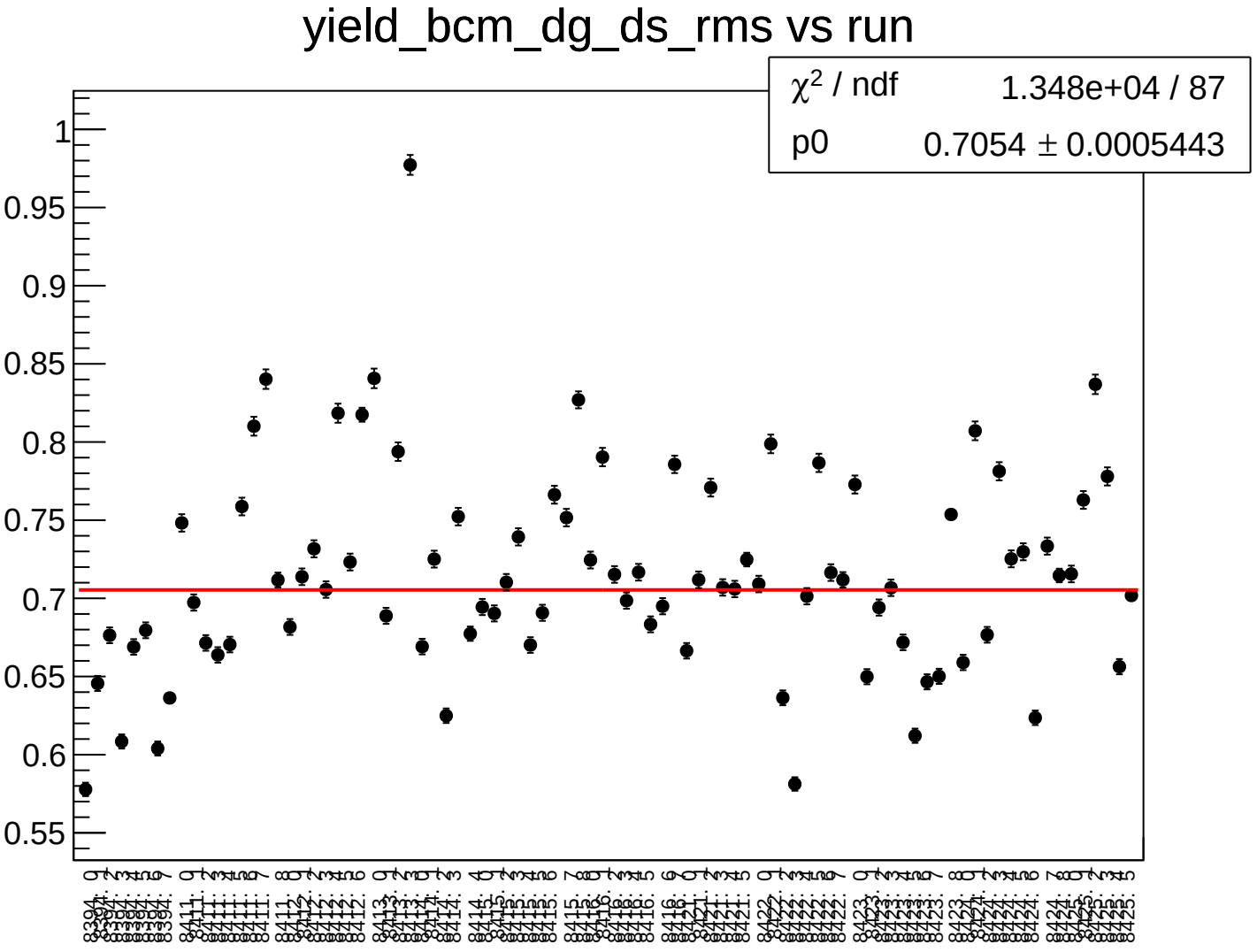

yield_bcm_dg_us_mean vs run
χ² / ndf 1.08e+06 / 87
p0 146.4 ± 0.0007644
148
147.5
147
146.5
146
145.5
145
144.5
144
pull
Entries 88
Mean 598.3
Std Dev 0
200
100
0
−100
−200
−300

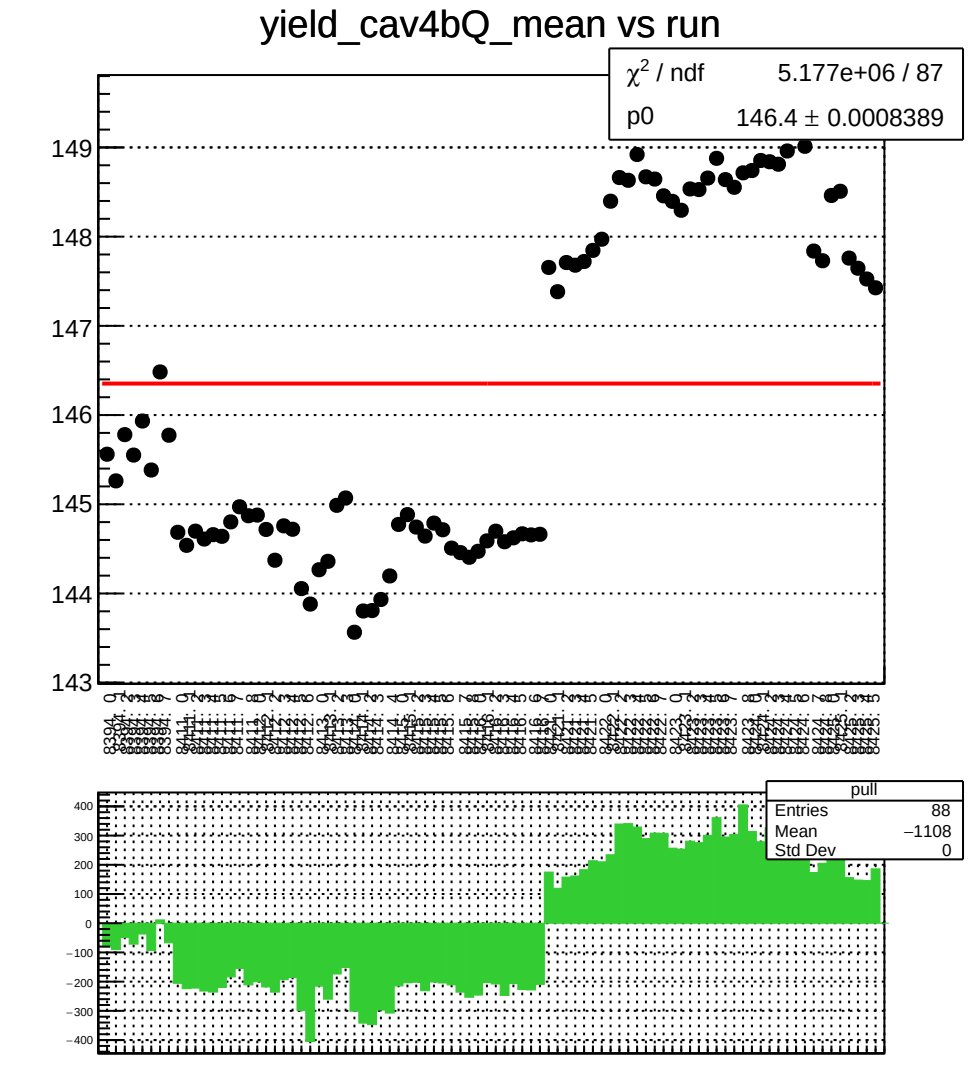

pull1D
Entries 88
Mean −0.3219
Std Dev 4.793
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

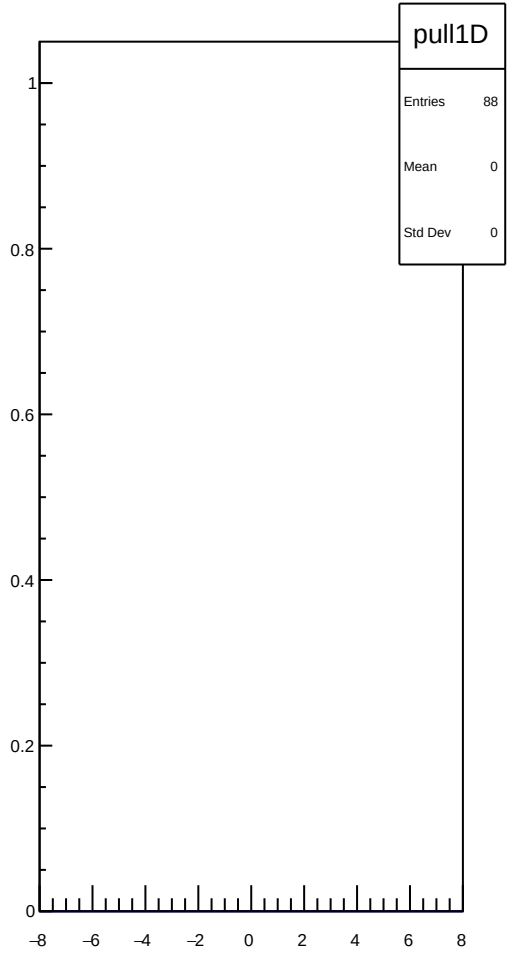

yield_bcm_dg_us_rms vs run
χ² / ndf 1.23e+04 / 87
p0 0.7007 ± 0.0005405
0.9
0.85
0.8
0.75
0.7
0.65
0.6
0.55

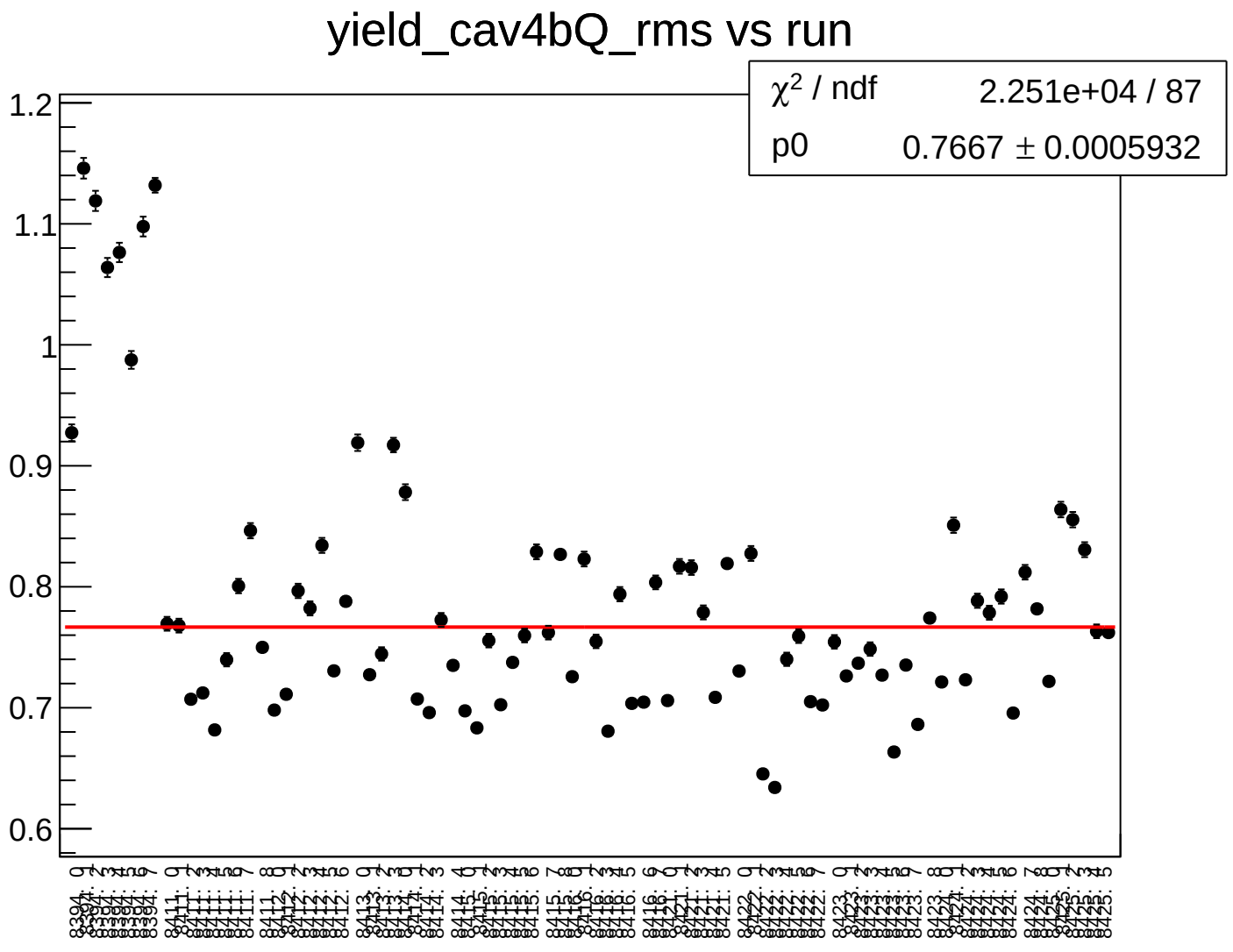

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.232e+06 / 87
p0 146.2 ± 0.0007698
148
147.5
147
146.5
146
145.5
145
144.5
144
pull
Entries 88
Mean 581.5
Std Dev 0
200
100
0
−100
−200
−300

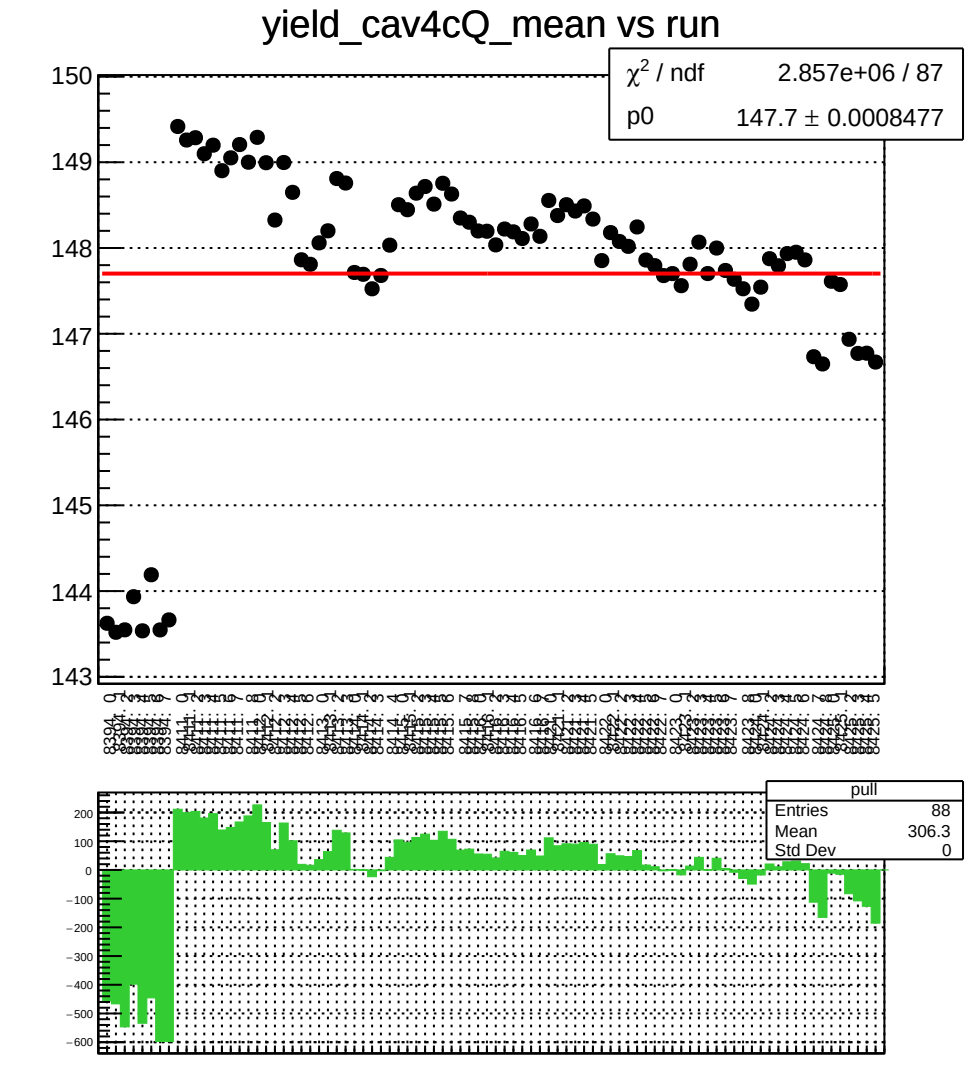

pull1D
Entries 88
Mean −1.396
Std Dev 4.3
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

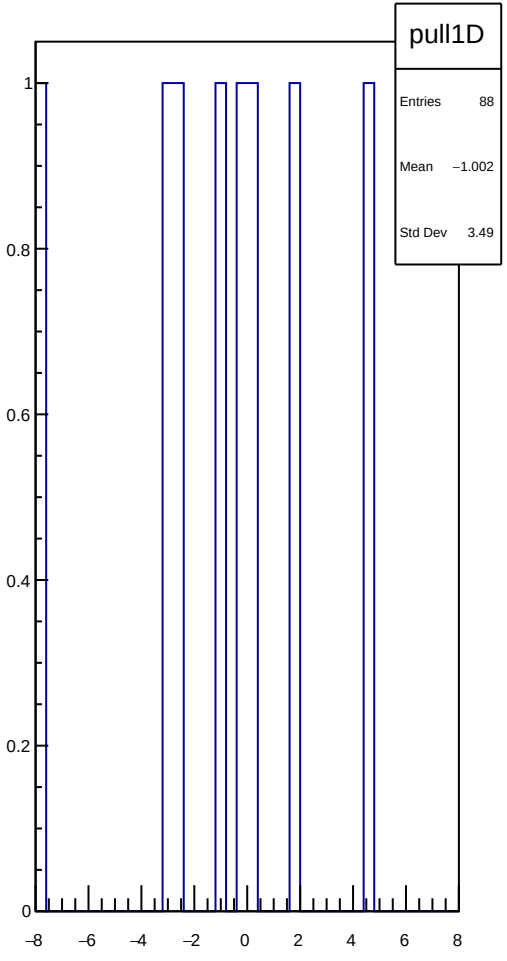

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.348e+04 / 87
p0 0.7054 ± 0.0005443
1
0.95
0.9
0.85
0.8
0.75
0.7
0.65
0.6
0.55

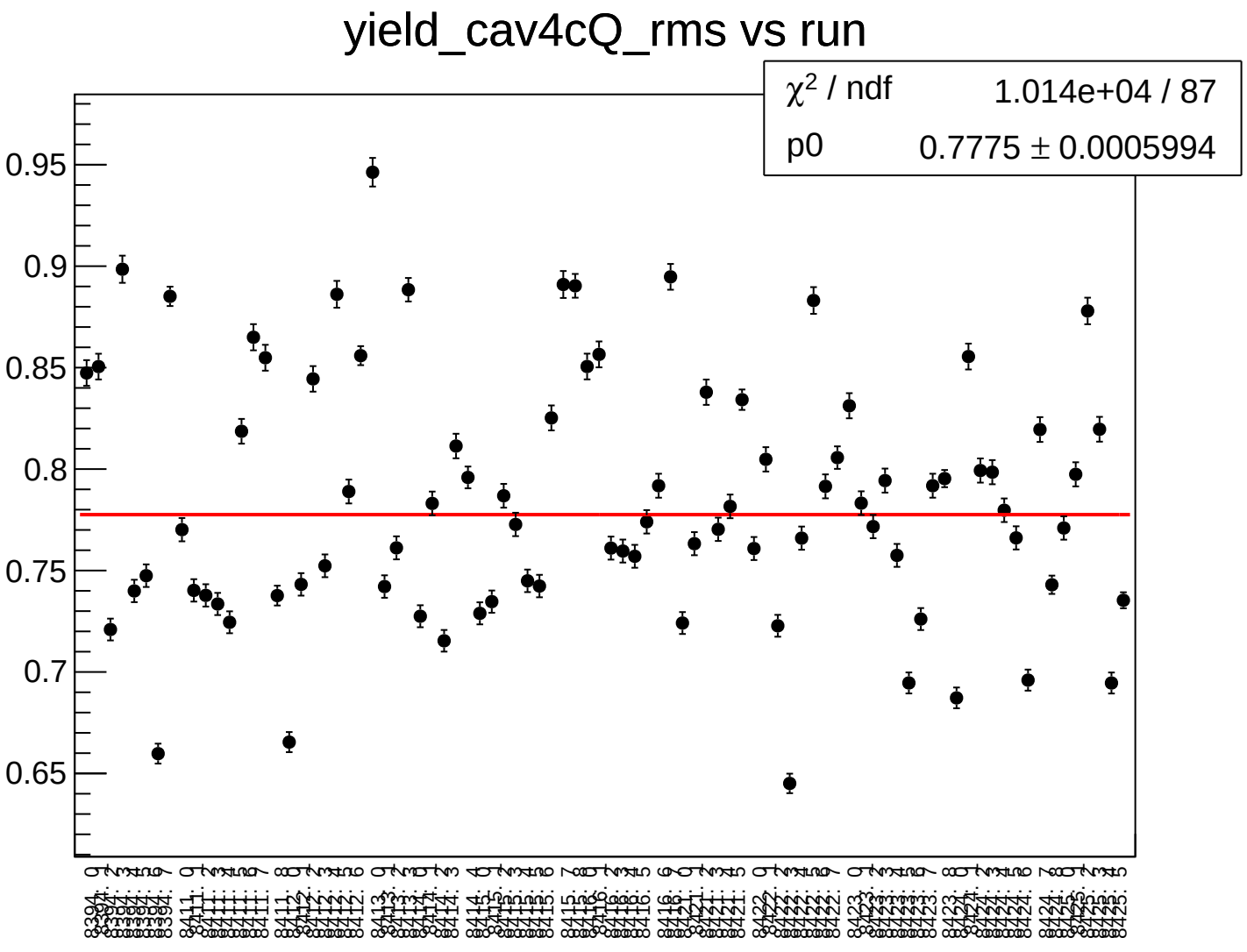

yield_cav4bQ_mean vs run
χ² / ndf 5.177e+06 / 87
p0 146.4 ± 0.0008389
149
148
147
146
145
144
143
pull
Entries 88
Mean −1108
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

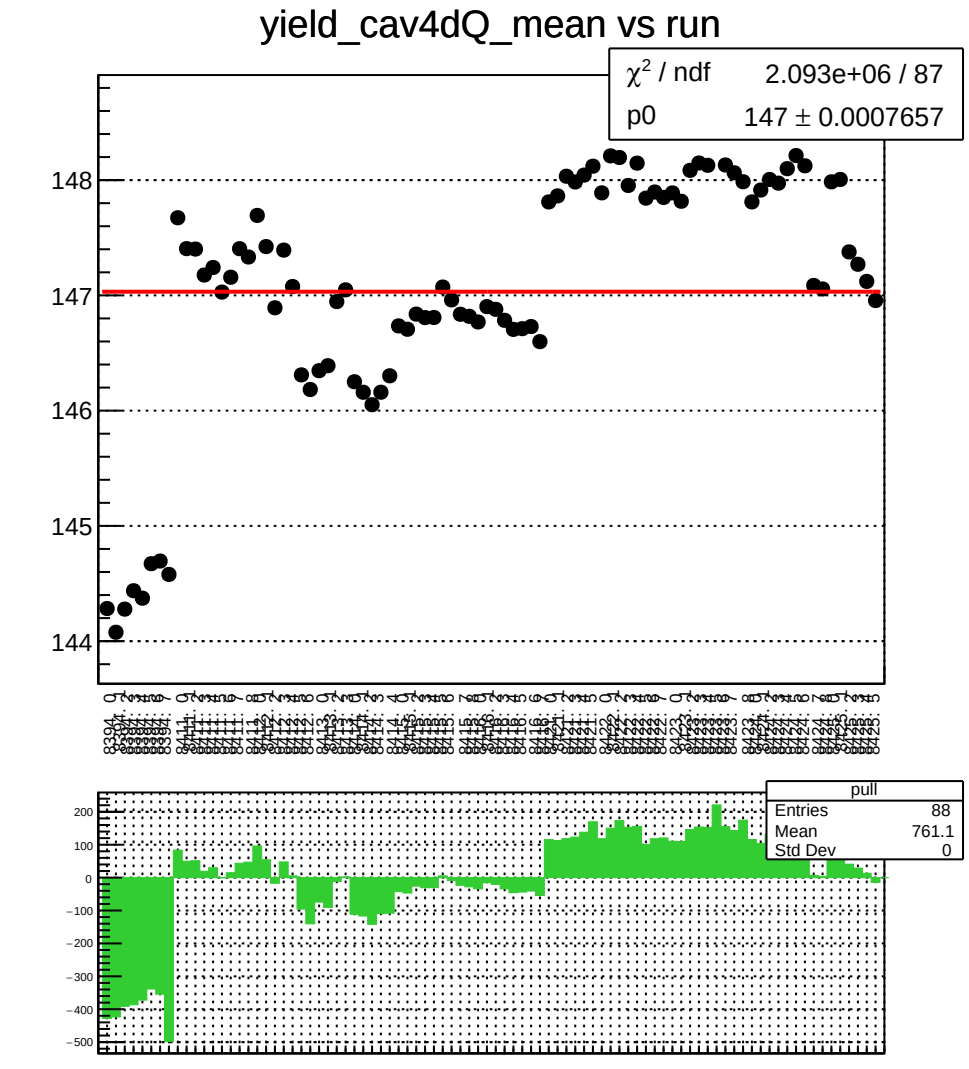

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

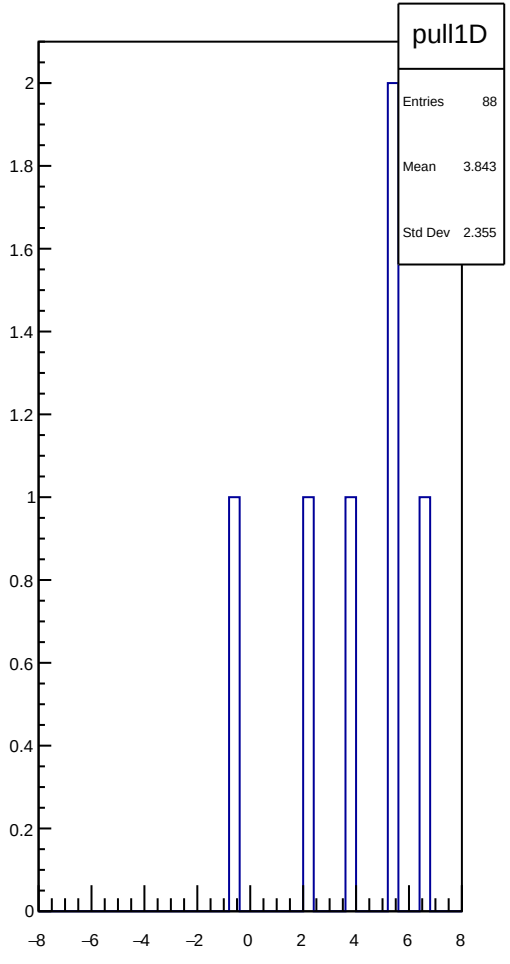

yield_cav4bQ_rms vs run
χ² / ndf 2.251e+04 / 87
p0 0.7667 ± 0.0005932
1.2
1.1
1
0.9
0.8
0.7
0.6

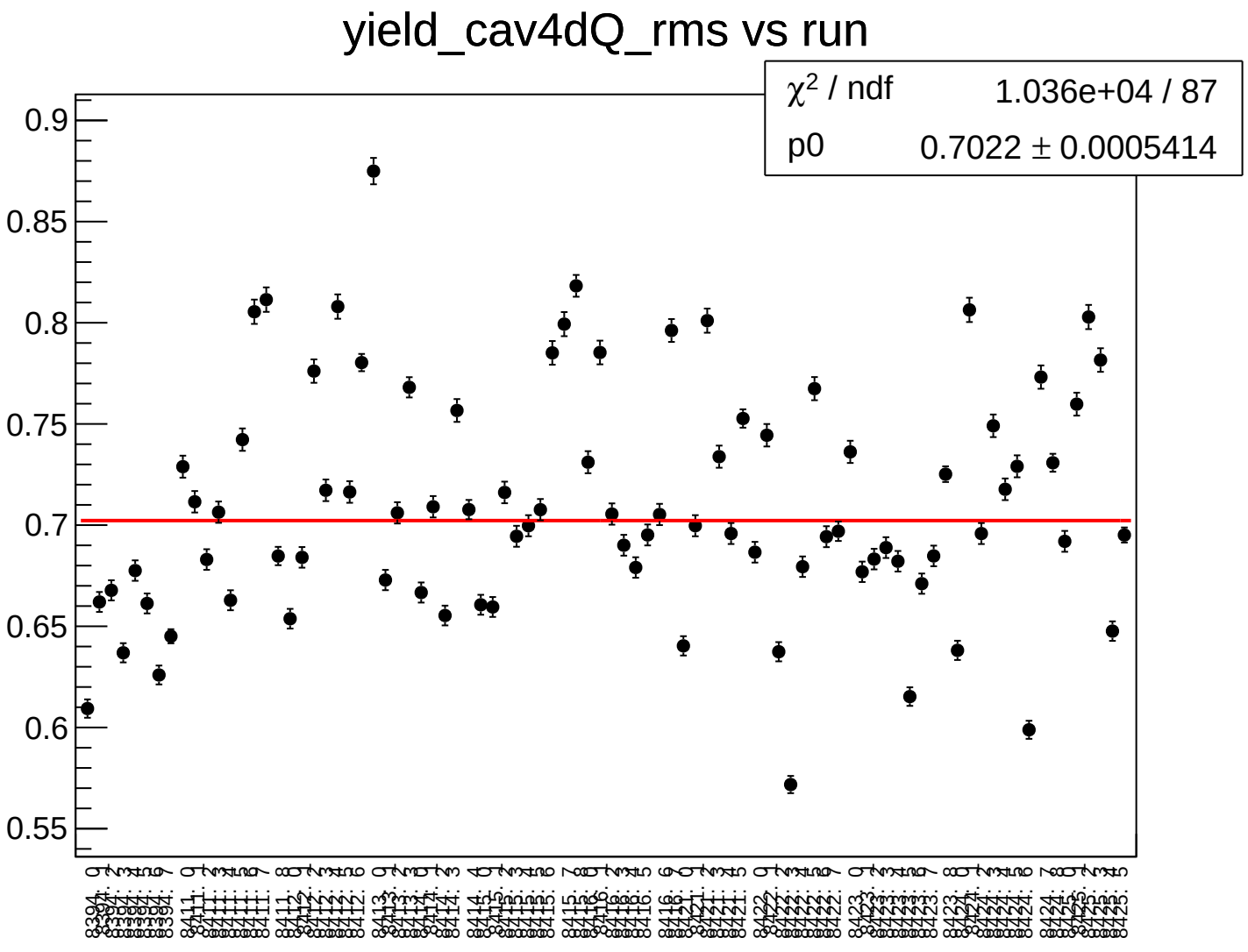

yield_cav4cQ_mean vs run
χ² / ndf 2.857e+06 / 87
p0 147.7 ± 0.0008477
150
149
148
147
146
145
144
143
pull
Entries 88
Mean 306.3
Std Dev 0
200
100
0
−100
−200
−300
−400
−500
−600

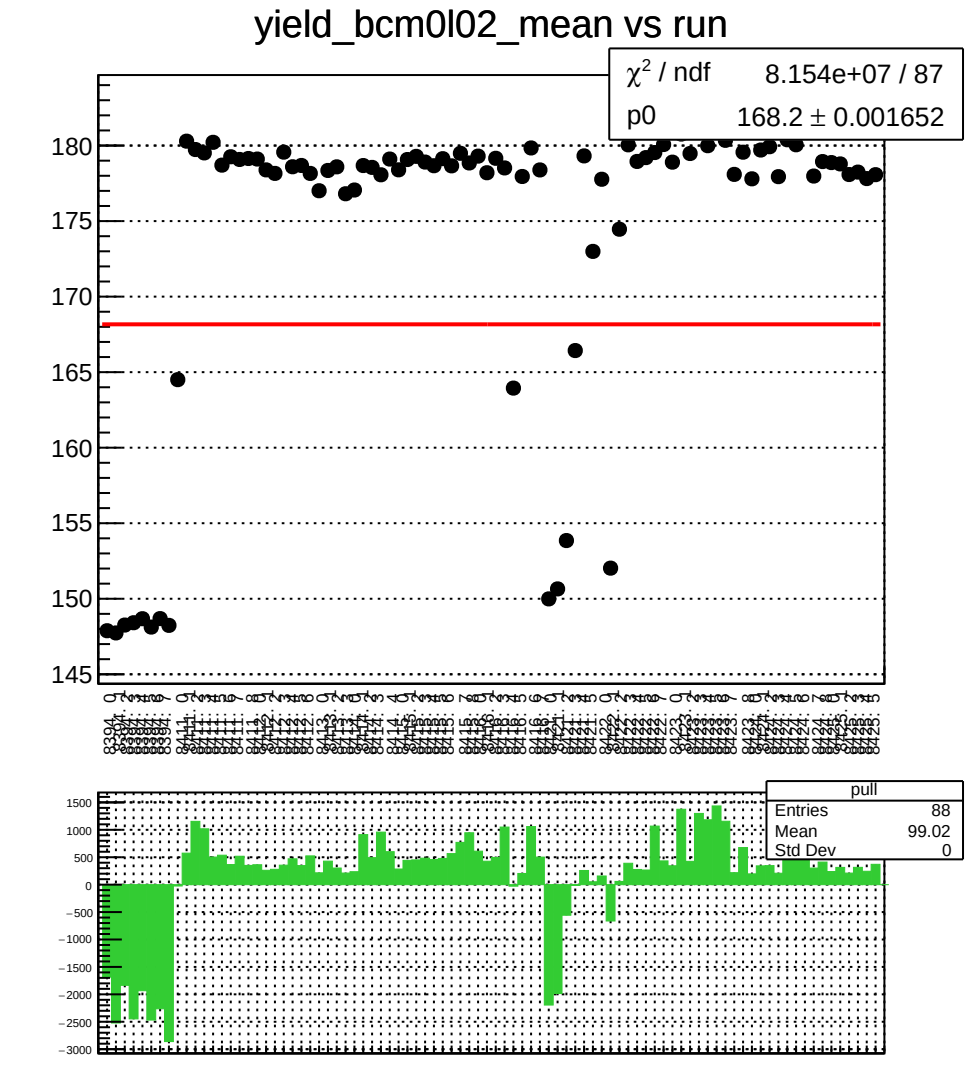

pull1D
Entries 88
Mean −1.002
Std Dev 3.49
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

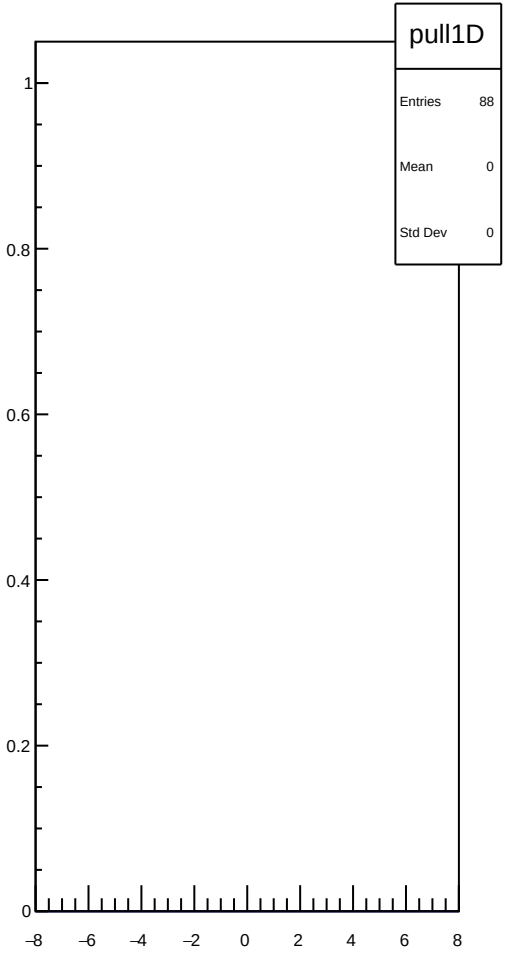

yield_cav4cQ_rms vs run
χ² / ndf 1.014e+04 / 87
p0 0.7775 ± 0.0005994
0.95
0.9
0.85
0.8
0.75
0.7
0.65

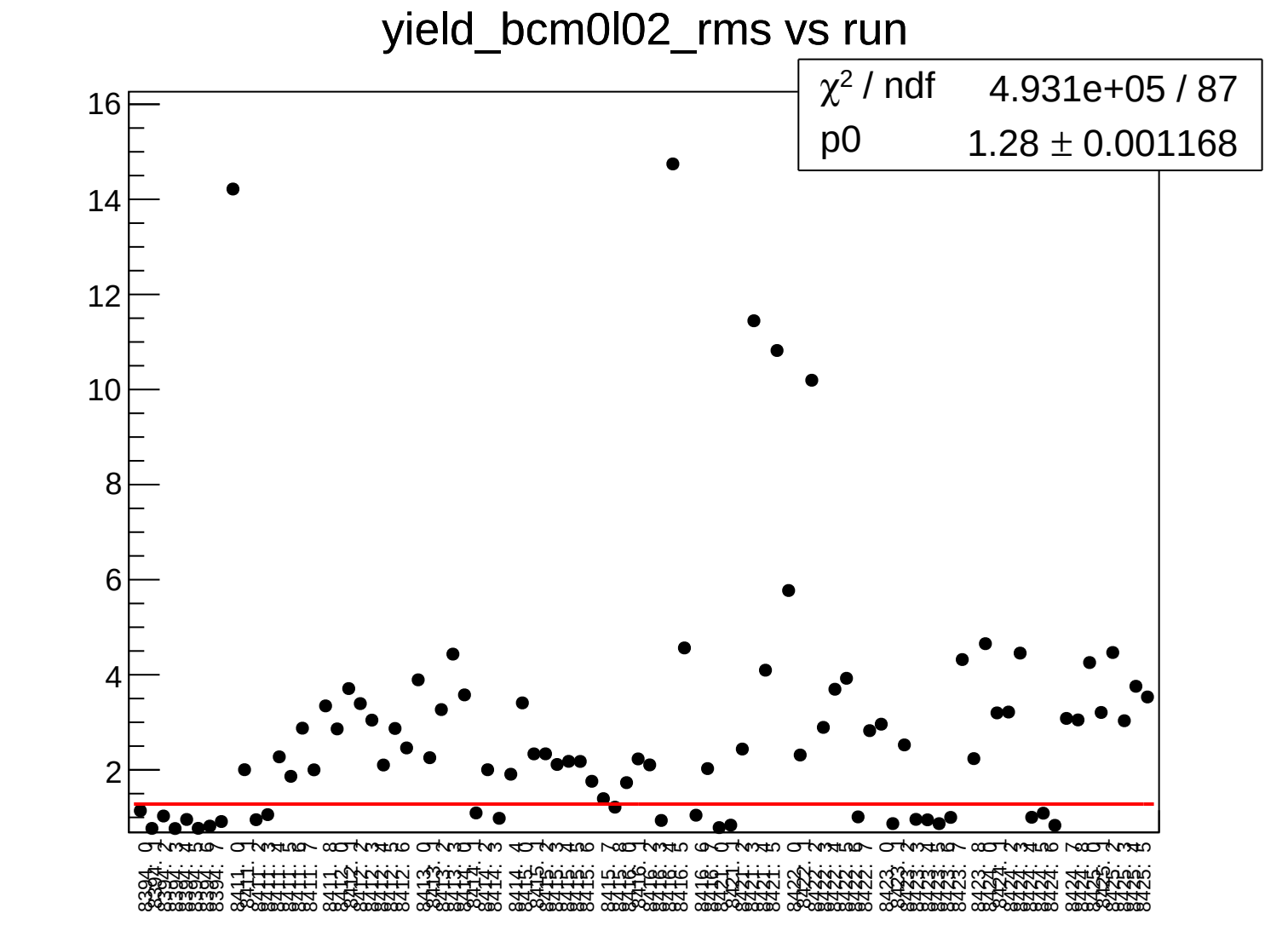

yield_cav4dQ_mean vs run
χ² / ndf 2.093e+06 / 87
p0 147 ± 0.0007657
148
147
146
145
144
pull
Entries 88
Mean 761.1
Std Dev 0
200
100
0
−100
−200
−300
−400
−500

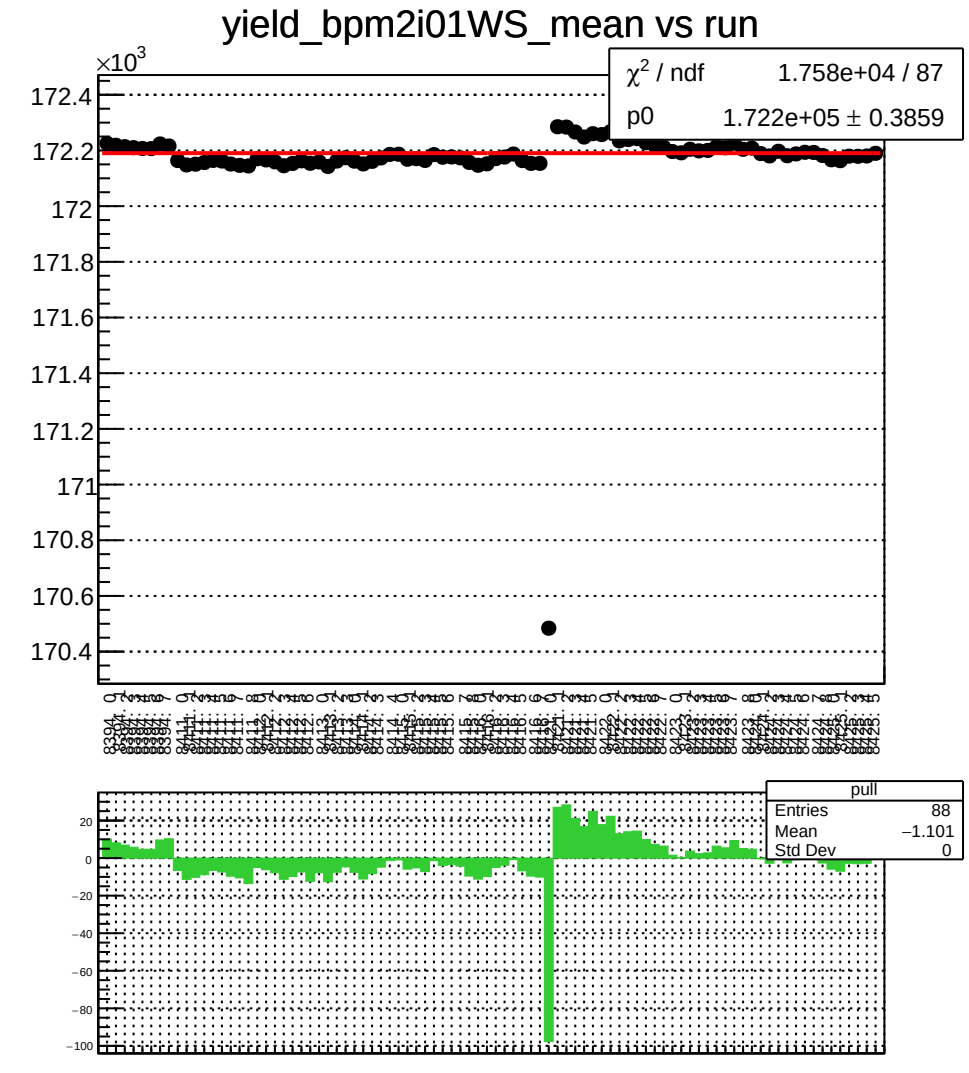

pull1D
Entries 88
Mean 3.843
Std Dev 2.355
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

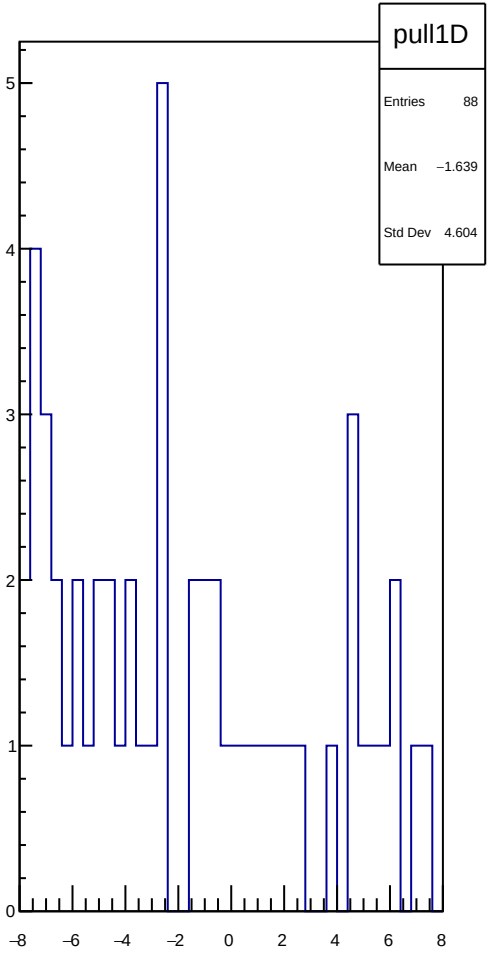

yield_cav4dQ_rms vs run
χ² / ndf 1.036e+04 / 87
p0 0.7022 ± 0.0005414
0.9
0.85
0.8
0.75
0.7
0.65
0.6
0.55

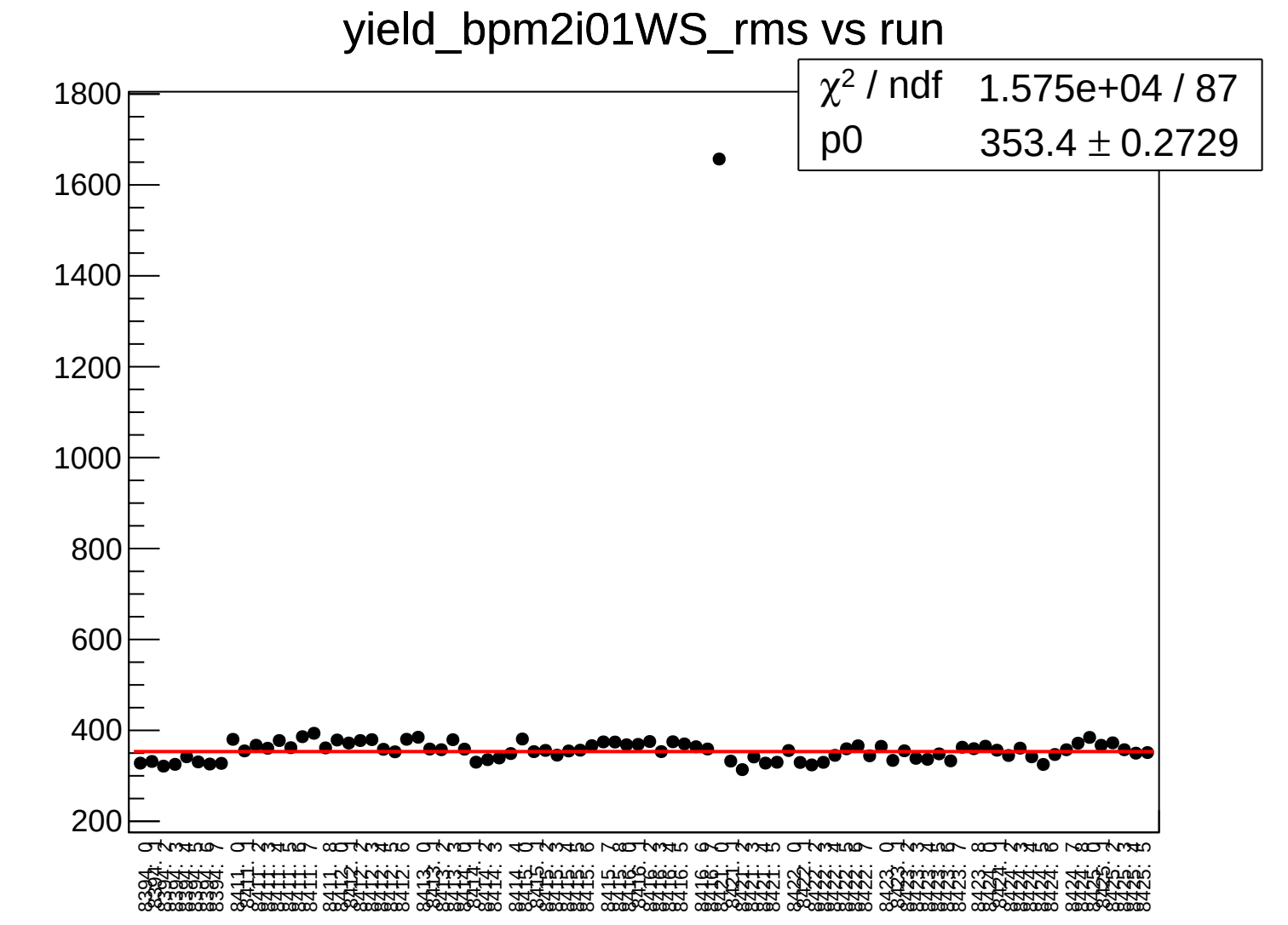

yield_bcm0l02_mean vs run
χ² / ndf 8.154e+07 / 87
p0 168.2 ± 0.001652
pull
Entries 88
Mean 99.02
Std Dev 0

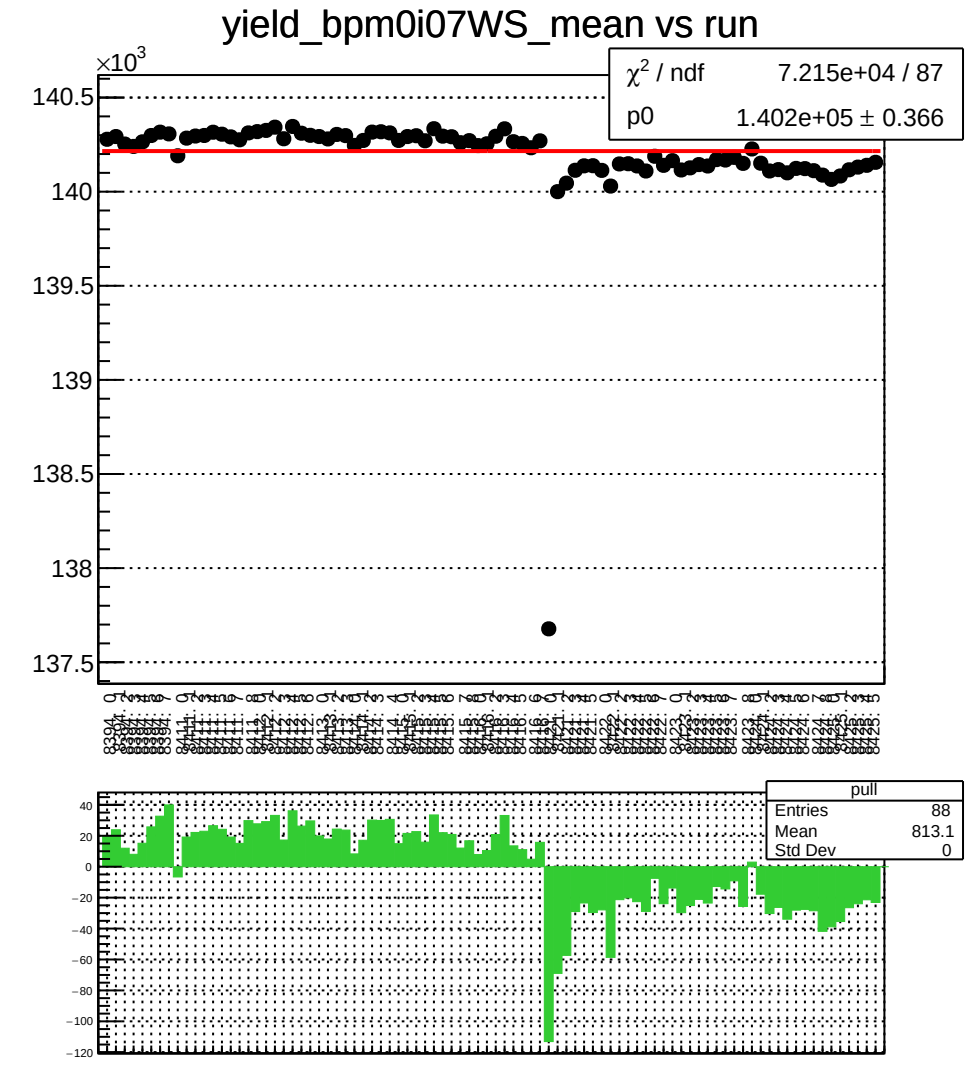

pull1D
Entries 88
Mean 0
Std Dev 0

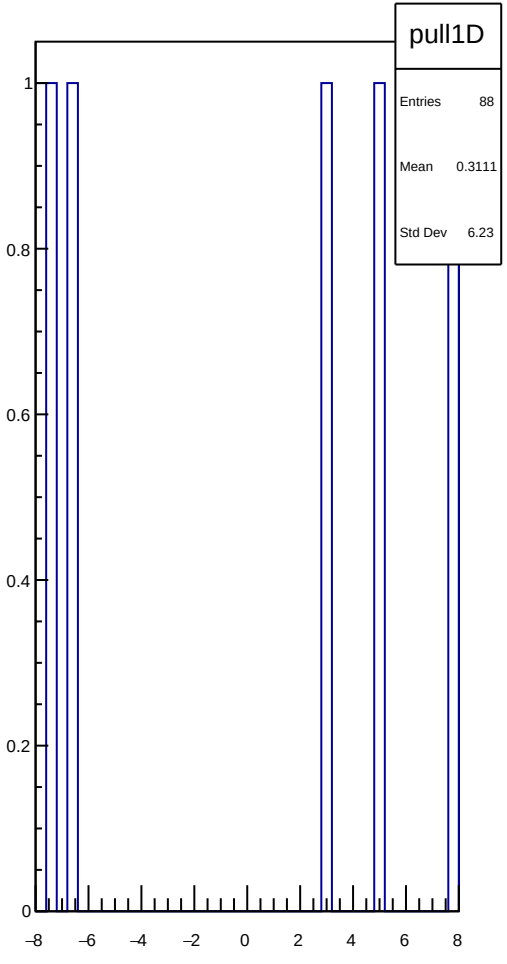

yield_bcm0l02_rms vs run
χ² / ndf 4.931e+05 / 87
p0 1.28 ± 0.001168
16
14
12
10
8
6
4
2

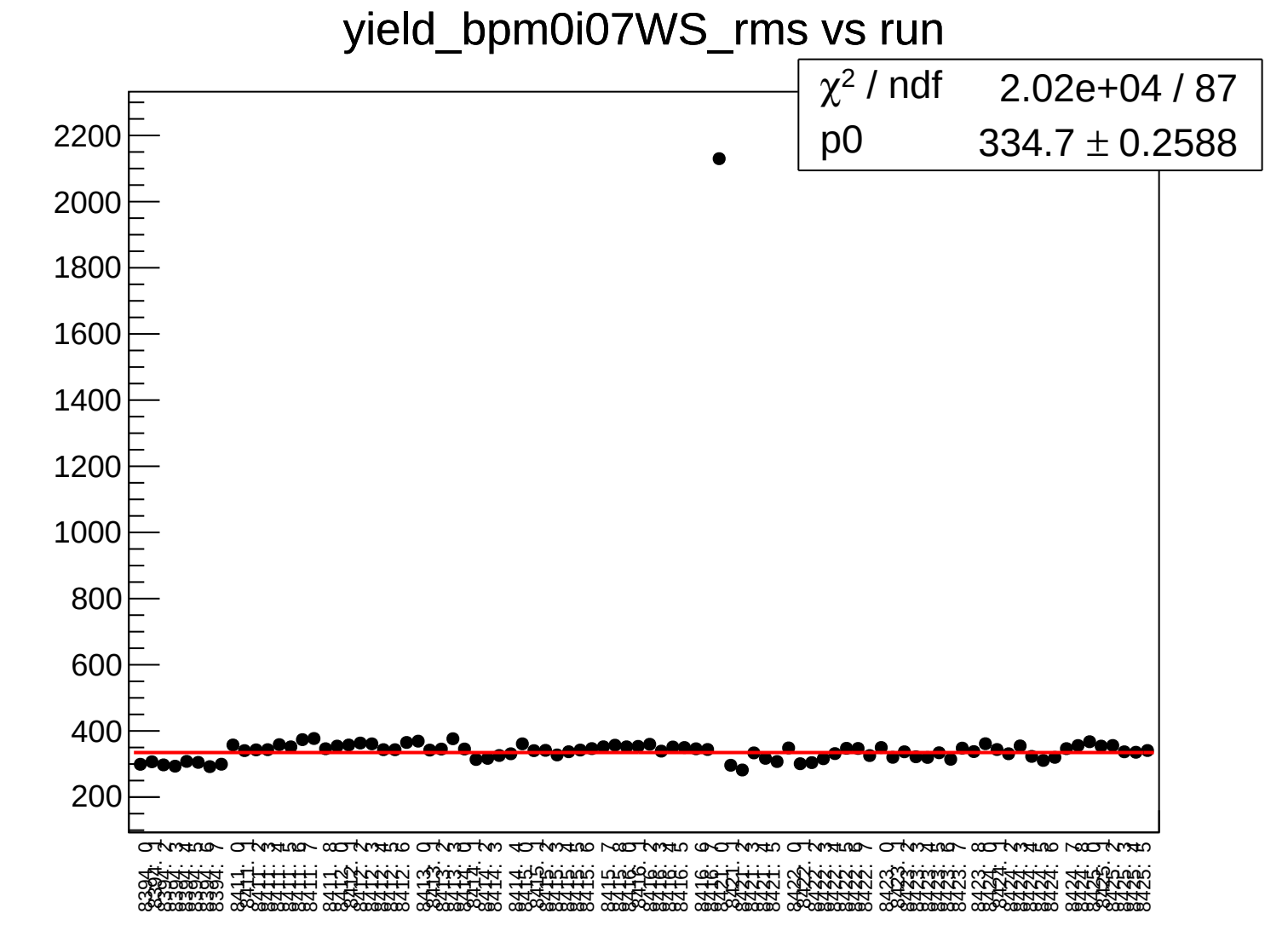

yield_bpm2i01WS_mean vs run
×10^3
χ^2 / ndf 1.758e+04 / 87
p0 1.722e+05 ± 0.3859
172.4
172.2
172
171.8
171.6
171.4
171.2
171
170.8
170.6
170.4
pull
Entries 88
Mean −1.101
Std Dev 0
20
0
−20
−40
−60
−80
−100

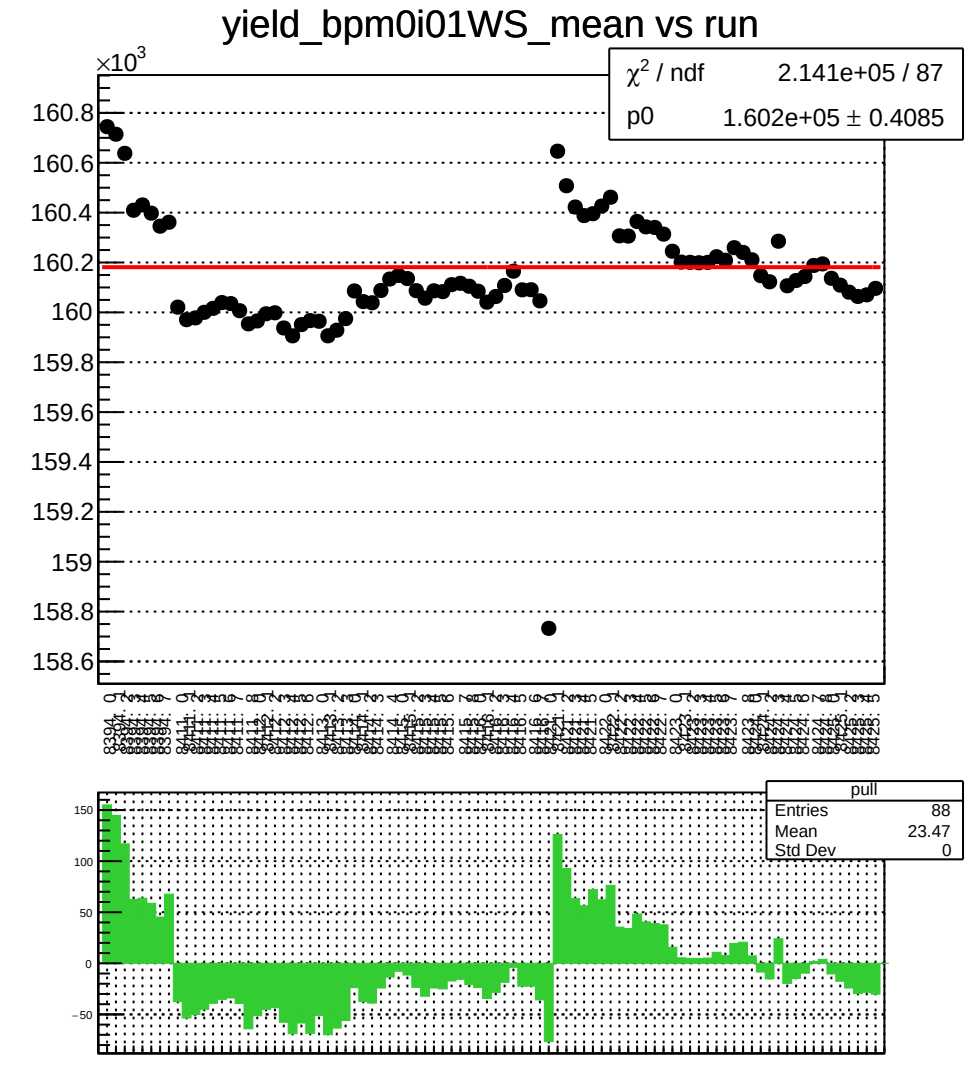

pull1D
Entries 88
Mean −1.639
Std Dev 4.604
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

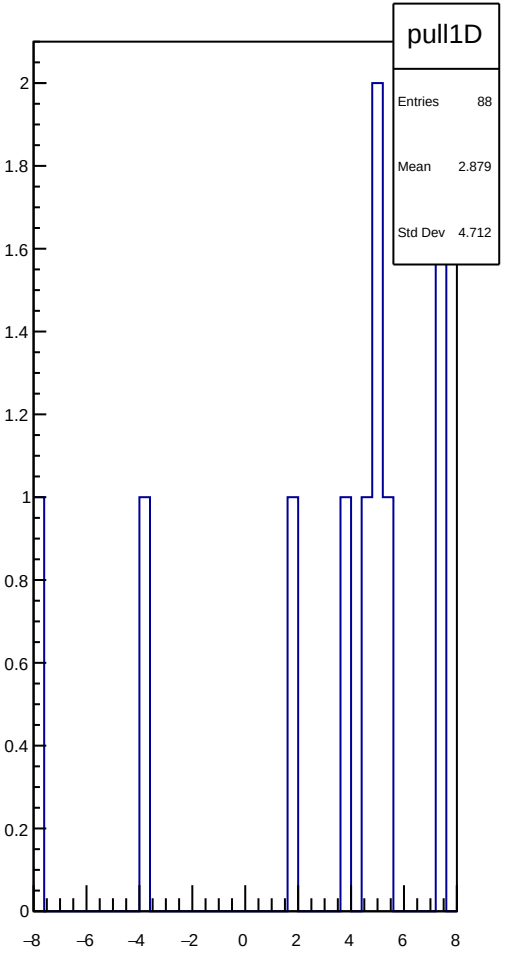

yield_bpm2i01WS_rms vs run
χ² / ndf 1.575e+04 / 87
p0 353.4 ± 0.2729
1800
1600
1400
1200
1000
800
600
400
200

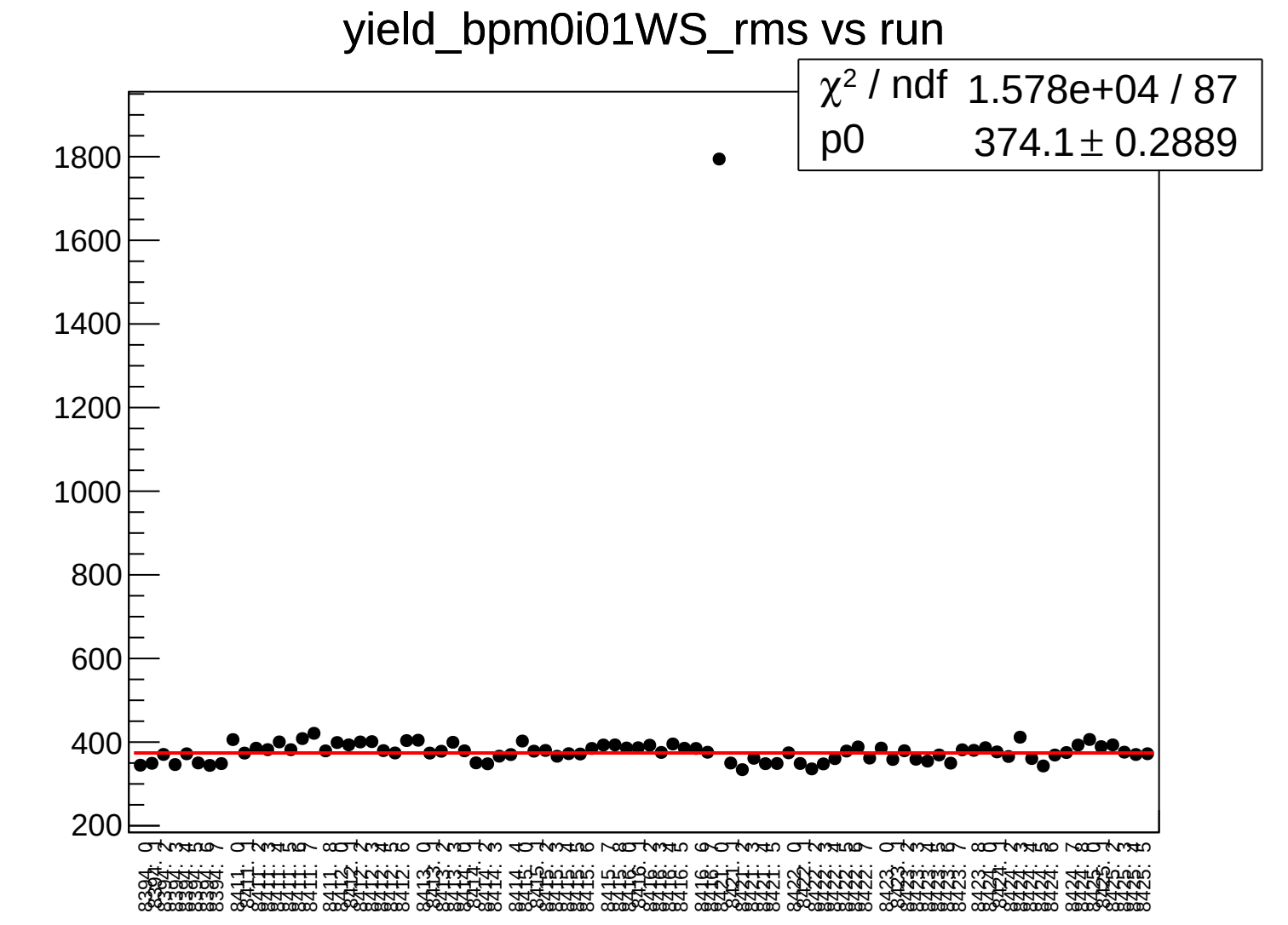

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 7.215e+04 / 87
p0 1.402e+05 ± 0.366
140.5
140
139.5
139
138.5
138
137.5
pull
Entries 88
Mean 813.1
Std Dev 0
40
20
0
−20
−40
−60
−80
−100
−120

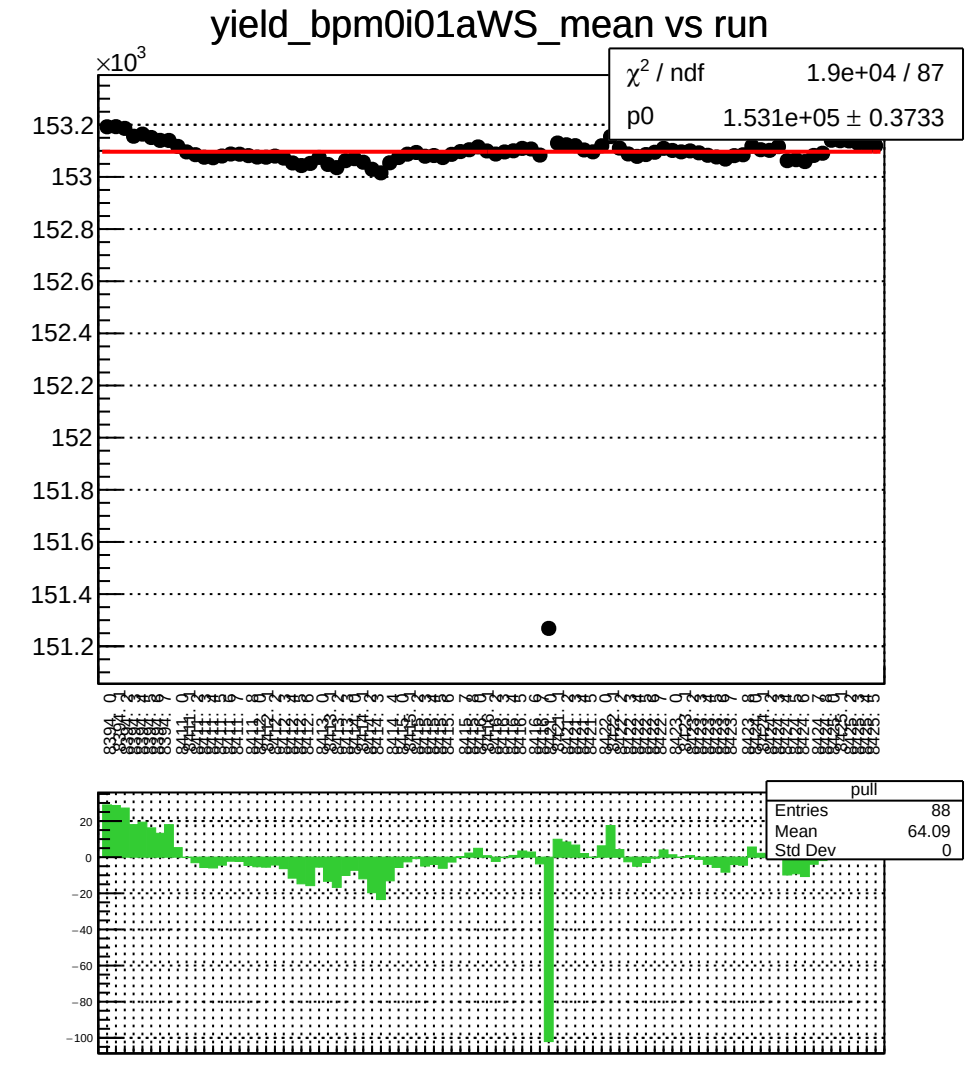

pull1D
Entries 88
Mean 0.3111
Std Dev 6.23
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

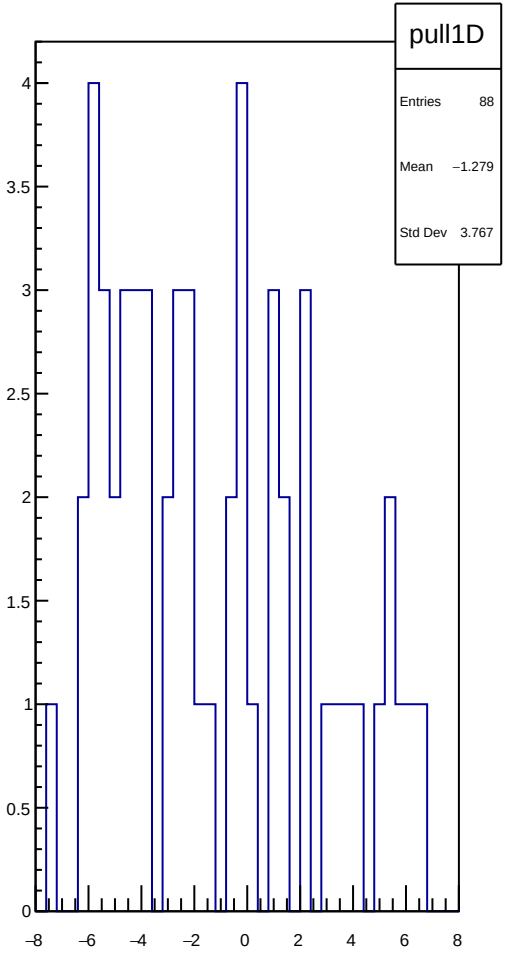

yield_bpm0i07WS_rms vs run
χ² / ndf 2.02e+04 / 87
p0 334.7 ± 0.2588
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

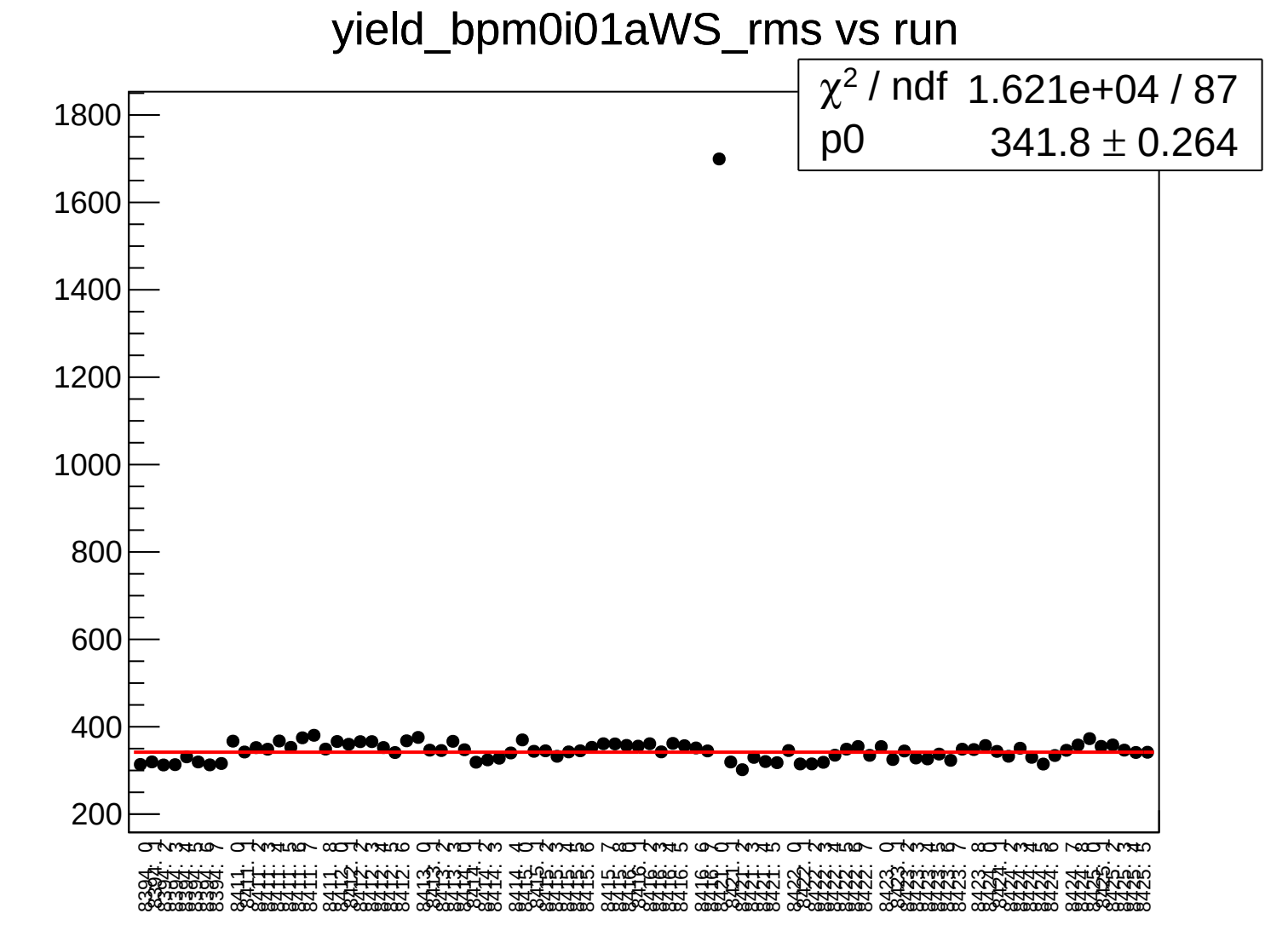

yield_bpm0i01WS_mean vs run
×10^3
χ^2 / ndf 2.141e+05 / 87
p0 1.602e+05 ± 0.4085
160.8
160.6
160.4
160.2
160
159.8
159.6
159.4
159.2
159
158.8
158.6
pull
Entries 88
Mean 23.47
Std Dev 0
150
100
50
0
−50

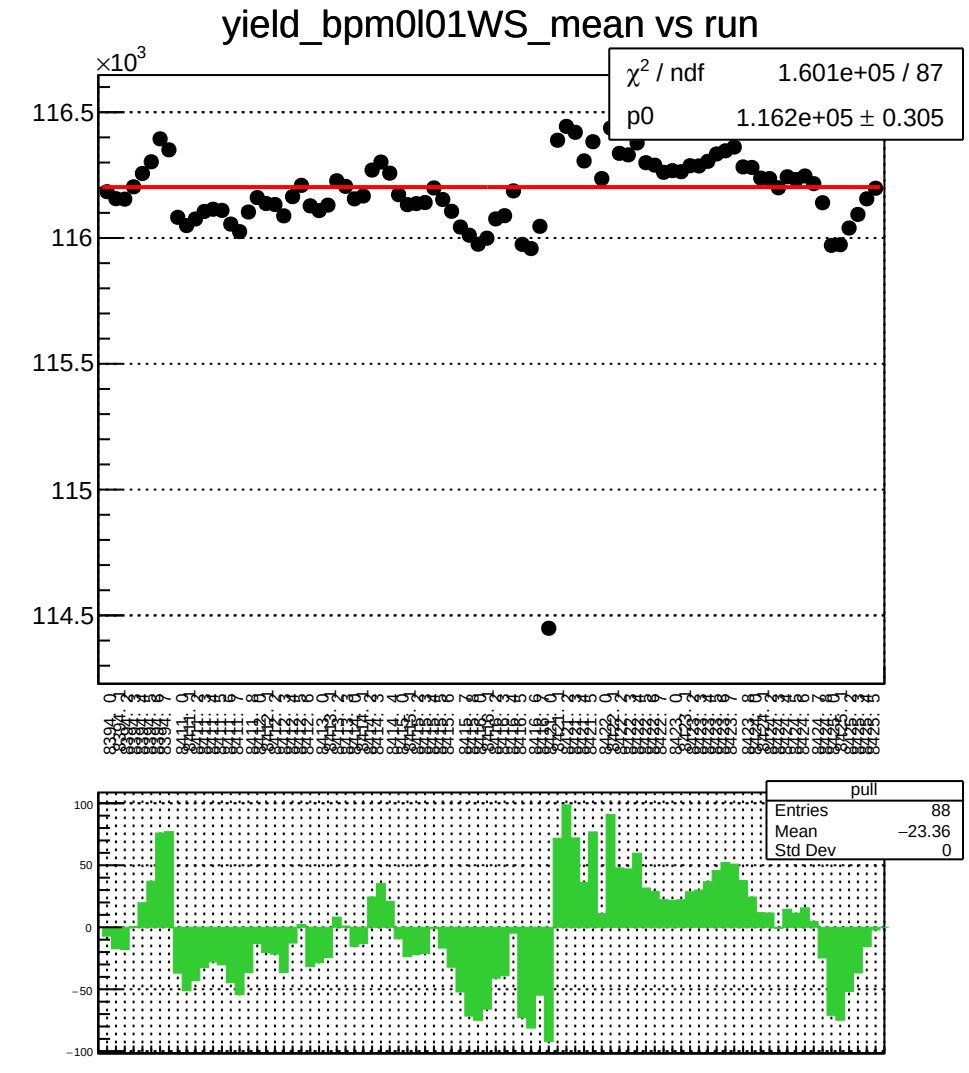

pull1D
Entries 88
Mean 2.879
Std Dev 4.712
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

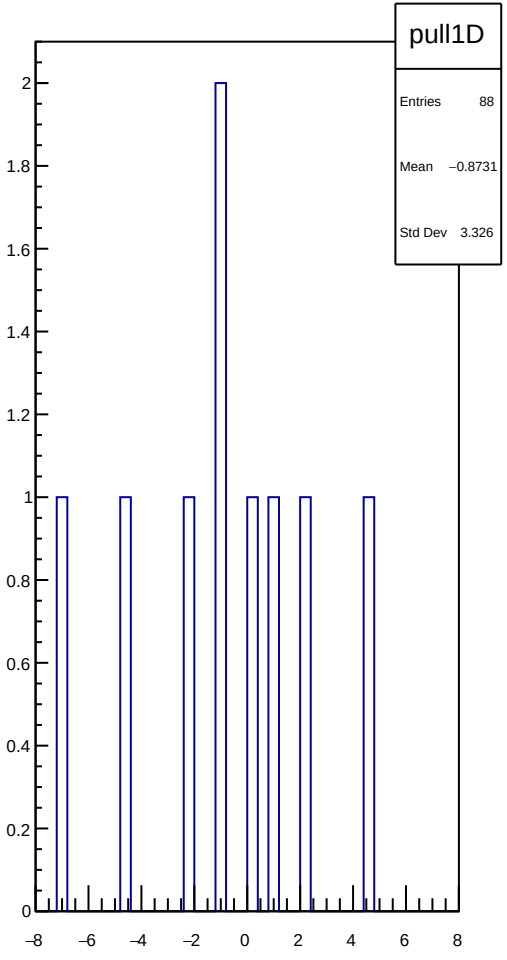

yield_bpm0i01WS_rms vs run
χ² / ndf 1.578e+04 / 87
p0 374.1 ± 0.2889
1800
1600
1400
1200
1000
800
600
400
200

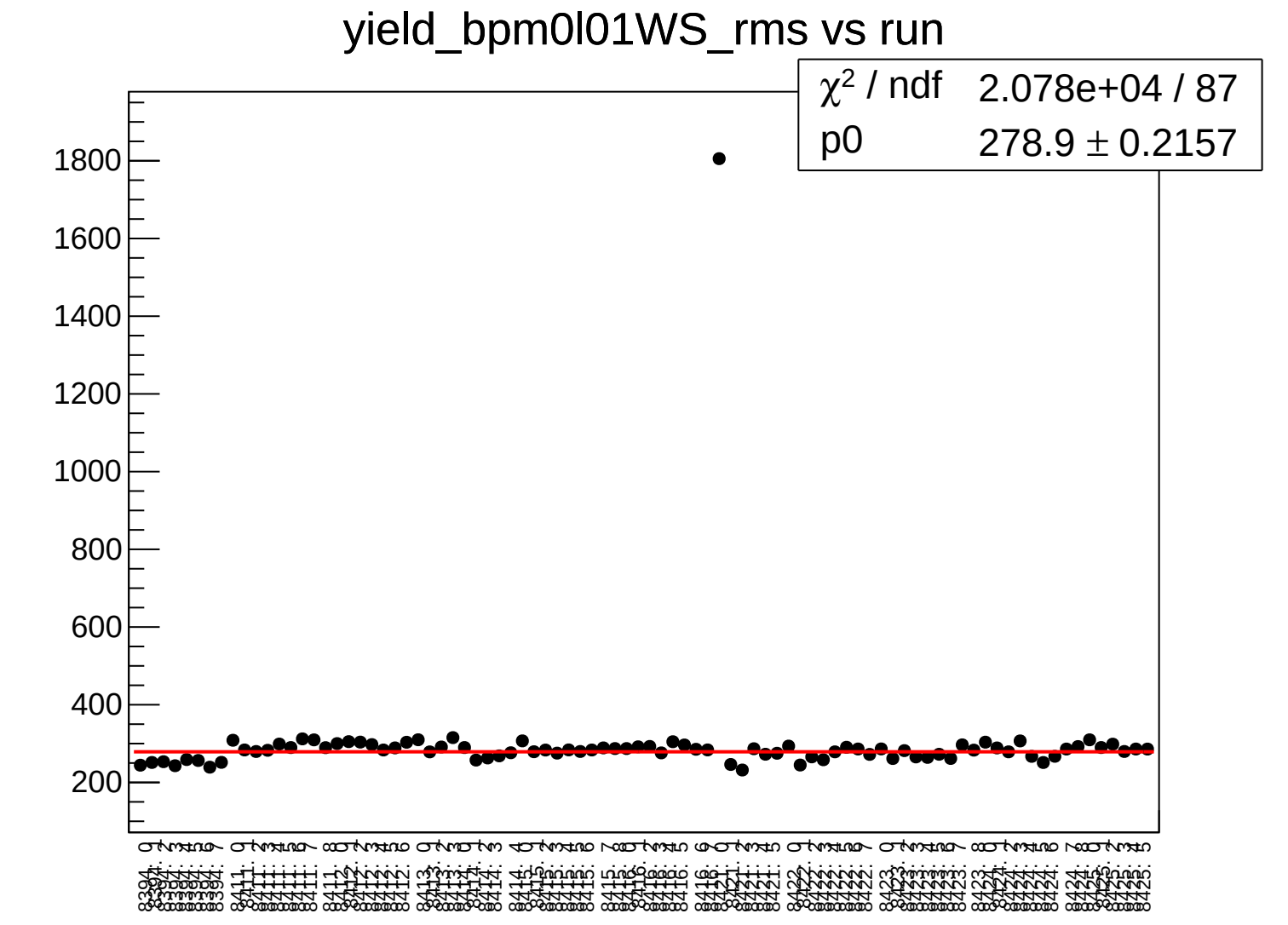

yield_bpm0i01aWS_mean vs run
×10^3
χ^2 / ndf 1.9e+04 / 87
p0 1.531e+05 ± 0.3733
153.2
153
152.8
152.6
152.4
152.2
152
151.8
151.6
151.4
151.2
pull
Entries 88
Mean 64.09
Std Dev 0
20
0
−20
−40
−60
−80
−100

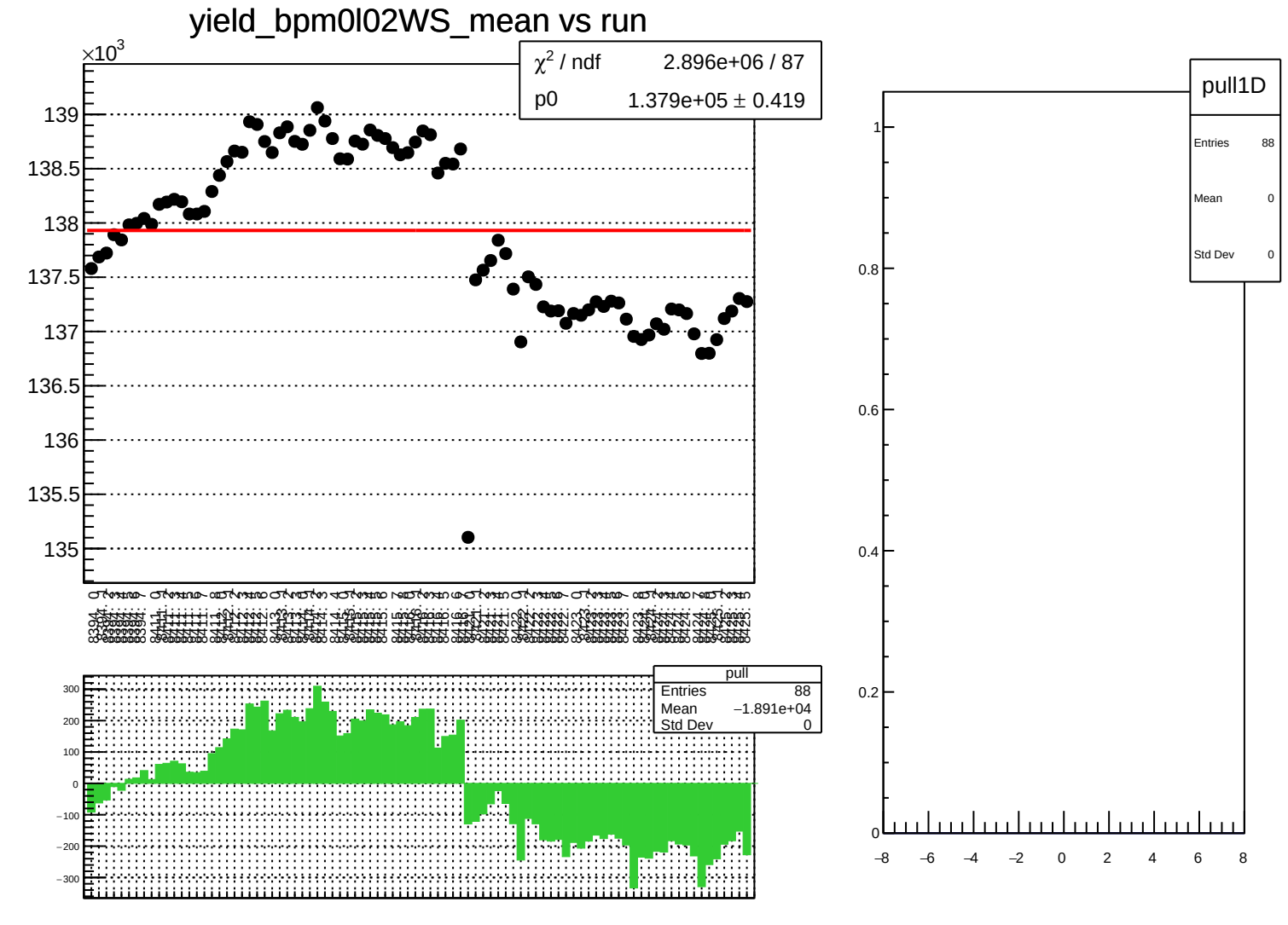

pull1D
Entries 88
Mean −1.279
Std Dev 3.767
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

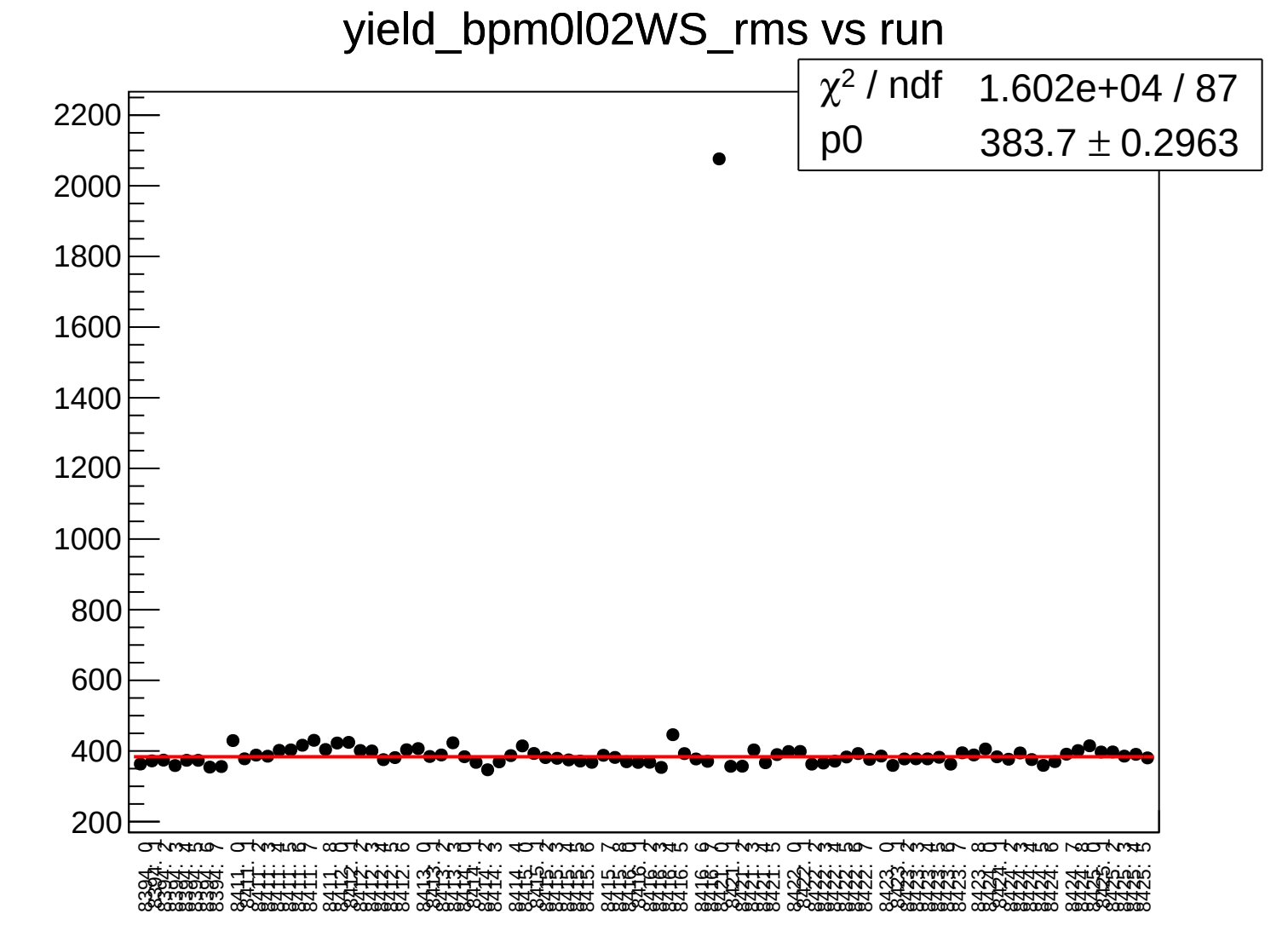

yield_bpm0i01aWS_rms vs run
χ² / ndf 1.621e+04 / 87
p0 341.8 ± 0.264
1800
1600
1400
1200
1000
800
600
400
200

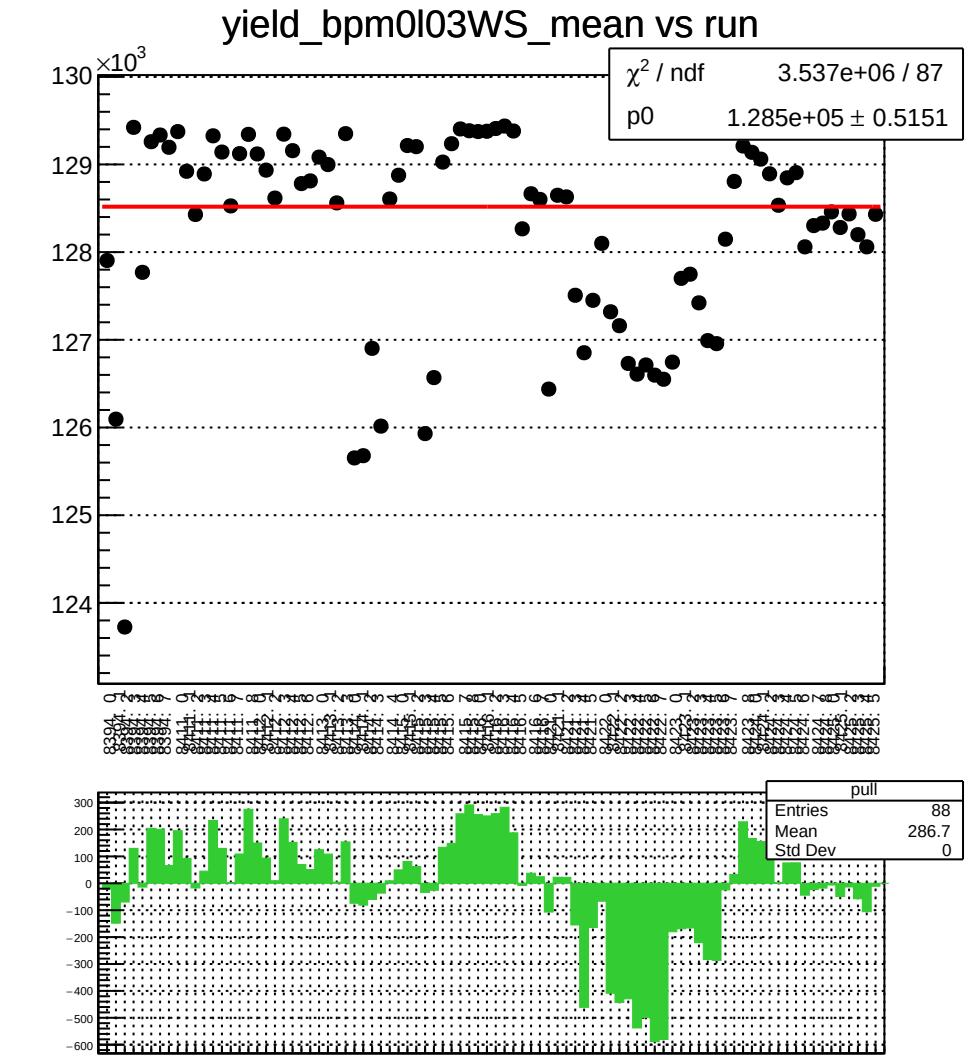

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 1.601e+05 / 87
p0 1.162e+05 ± 0.305
116.5
116
115.5
115
114.5
pull
Entries 88
Mean −23.36
Std Dev 0
100
50
0
−50
−100

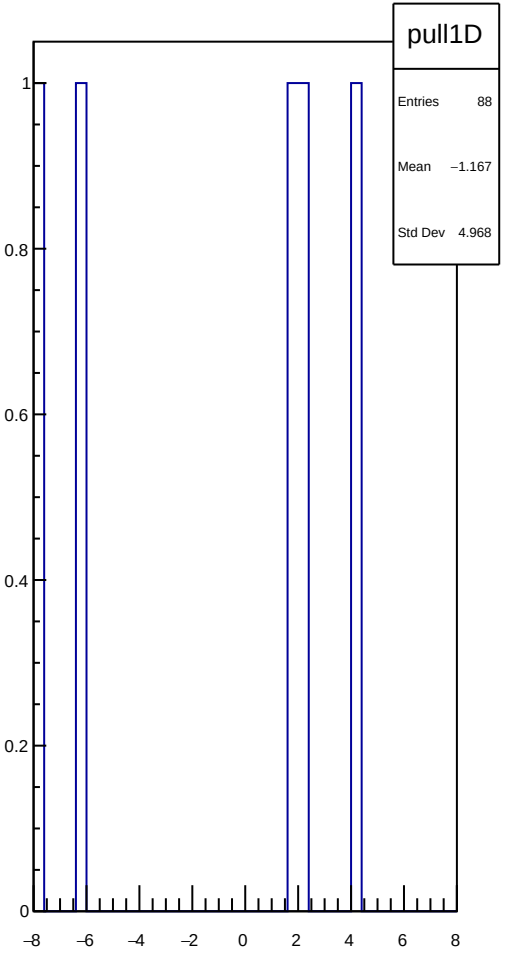

pull1D
Entries 88
Mean −0.8731
Std Dev 3.326
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

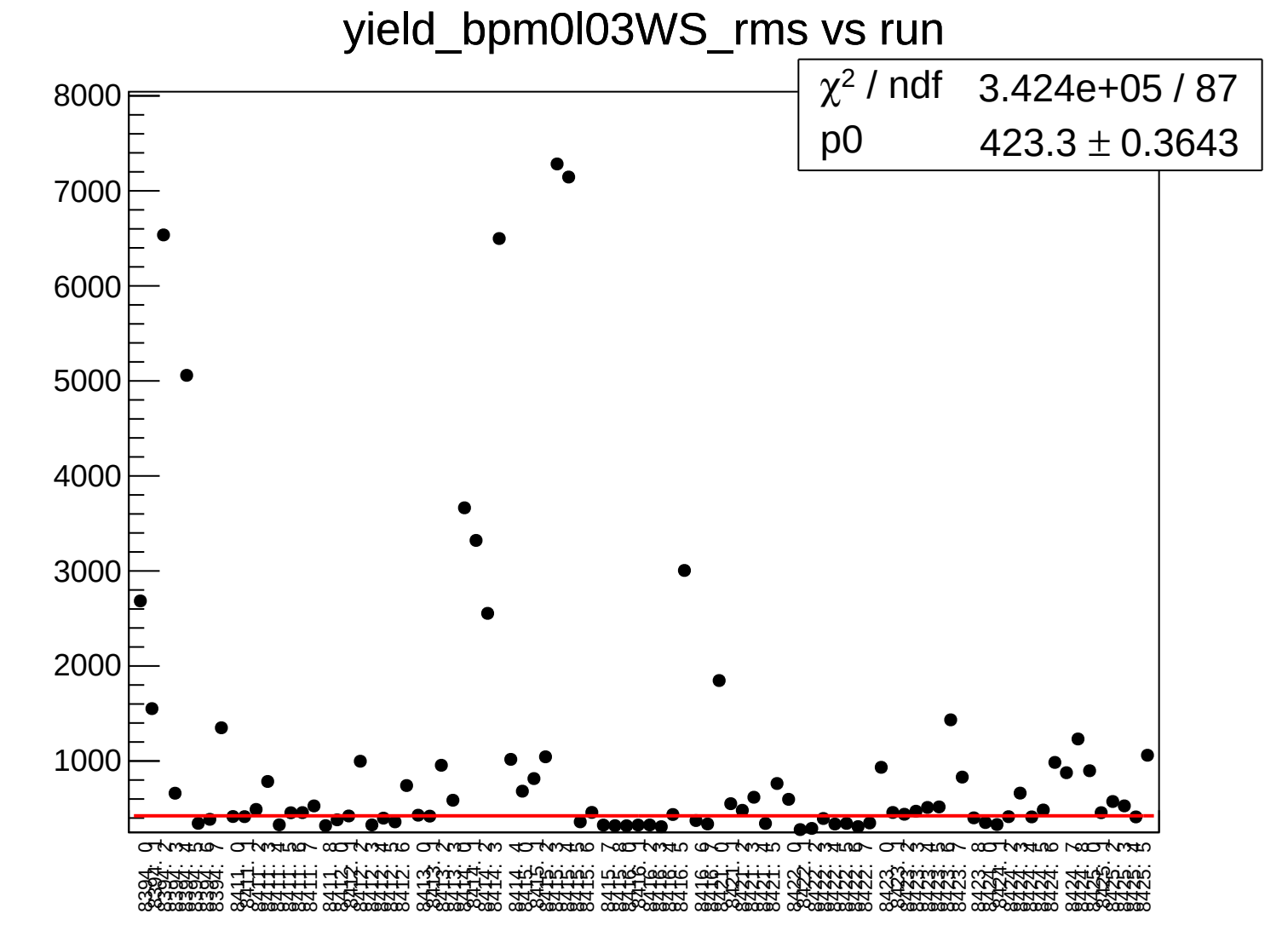

yield_bpm0l01WS_rms vs run
χ² / ndf 2.078e+04 / 87
p0 278.9 ± 0.2157
1800
1600
1400
1200
1000
800
600
400
200

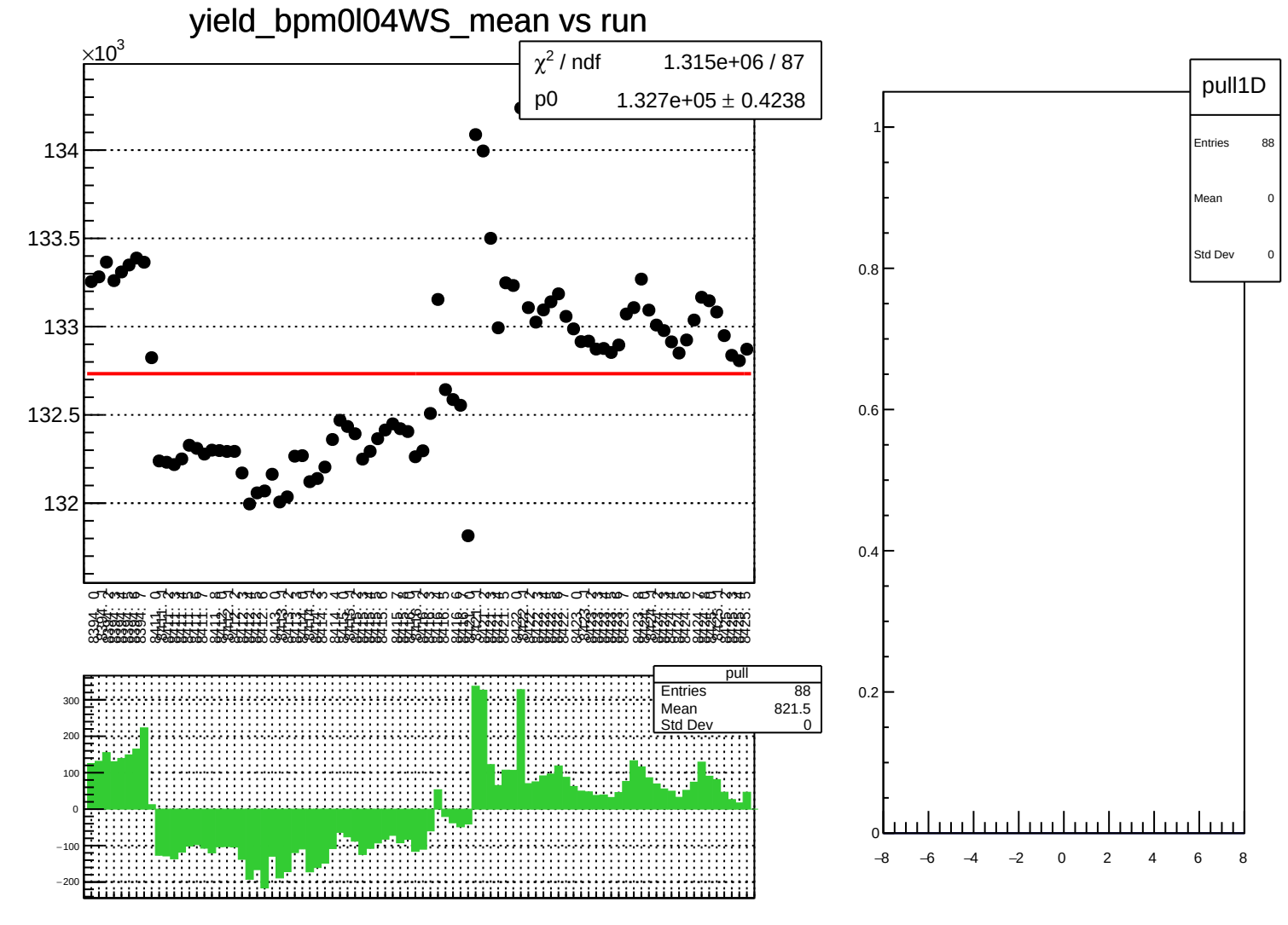

yield_bpm0l02WS_mean vs run
×10^3
χ^2 / ndf 2.896e+06 / 87
p0 1.379e+05 ± 0.419
139
138.5
138
137.5
137
136.5
136
135.5
135
pull
Entries 88
Mean −1.891e+04
Std Dev 0
300
200
100
0
−100
−200
−300
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

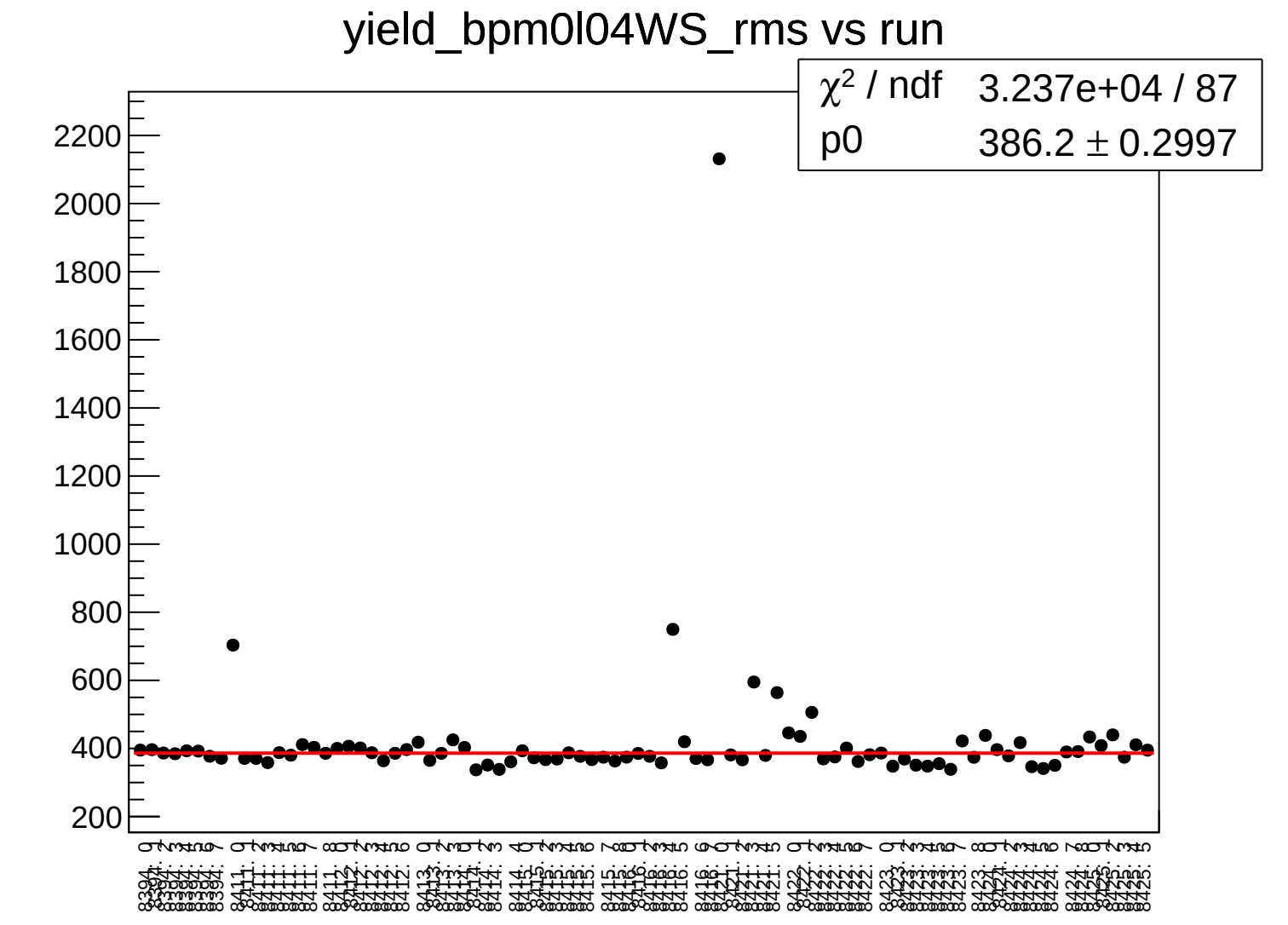

yield_bpm0l02WS_rms vs run
χ² / ndf 1.602e+04 / 87
p0 383.7 ± 0.2963
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

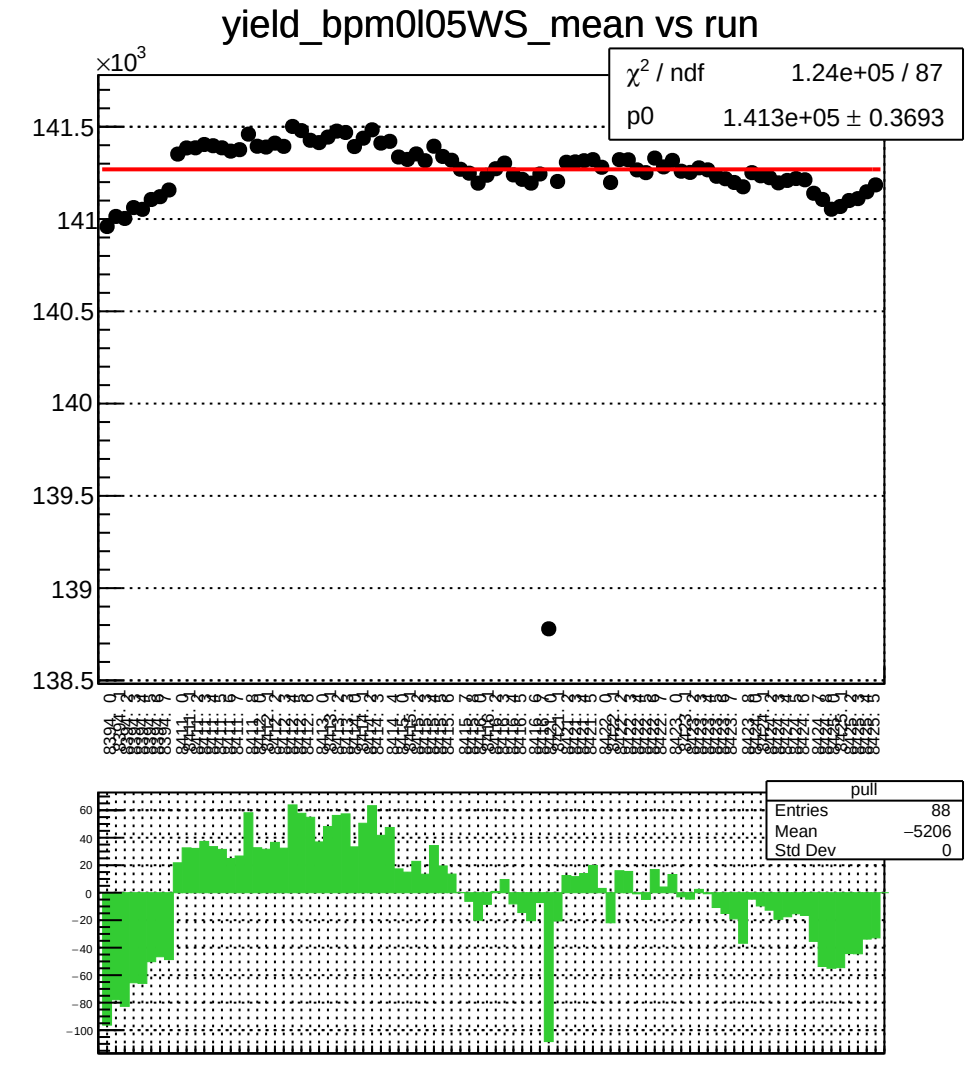

yield_bpm0l03WS_mean vs run
×10^3
130
129
128
127
126
125
124
χ² / ndf 3.537e+06 / 87
p0 1.285e+05 ± 0.5151
pull
Entries 88
Mean 286.7
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500
−600

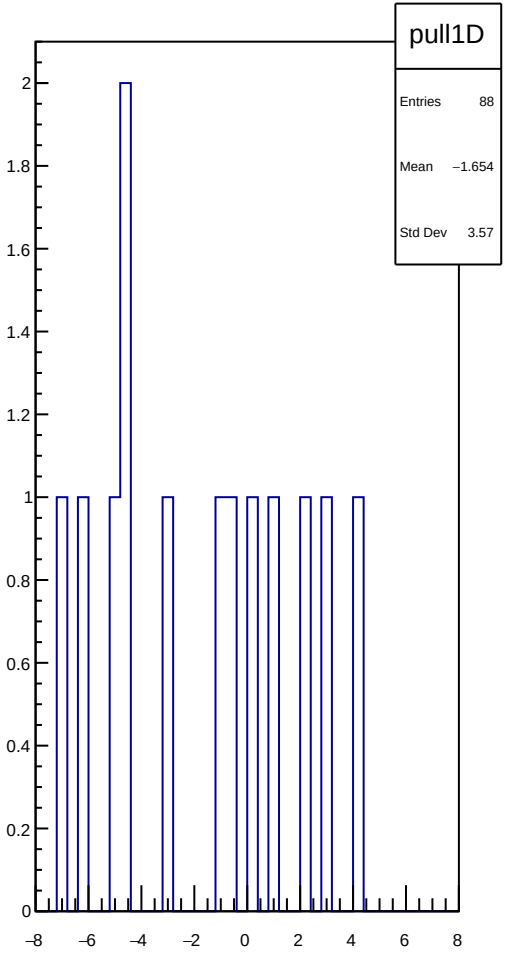

pull1D
Entries 88
Mean −1.167
Std Dev 4.968
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

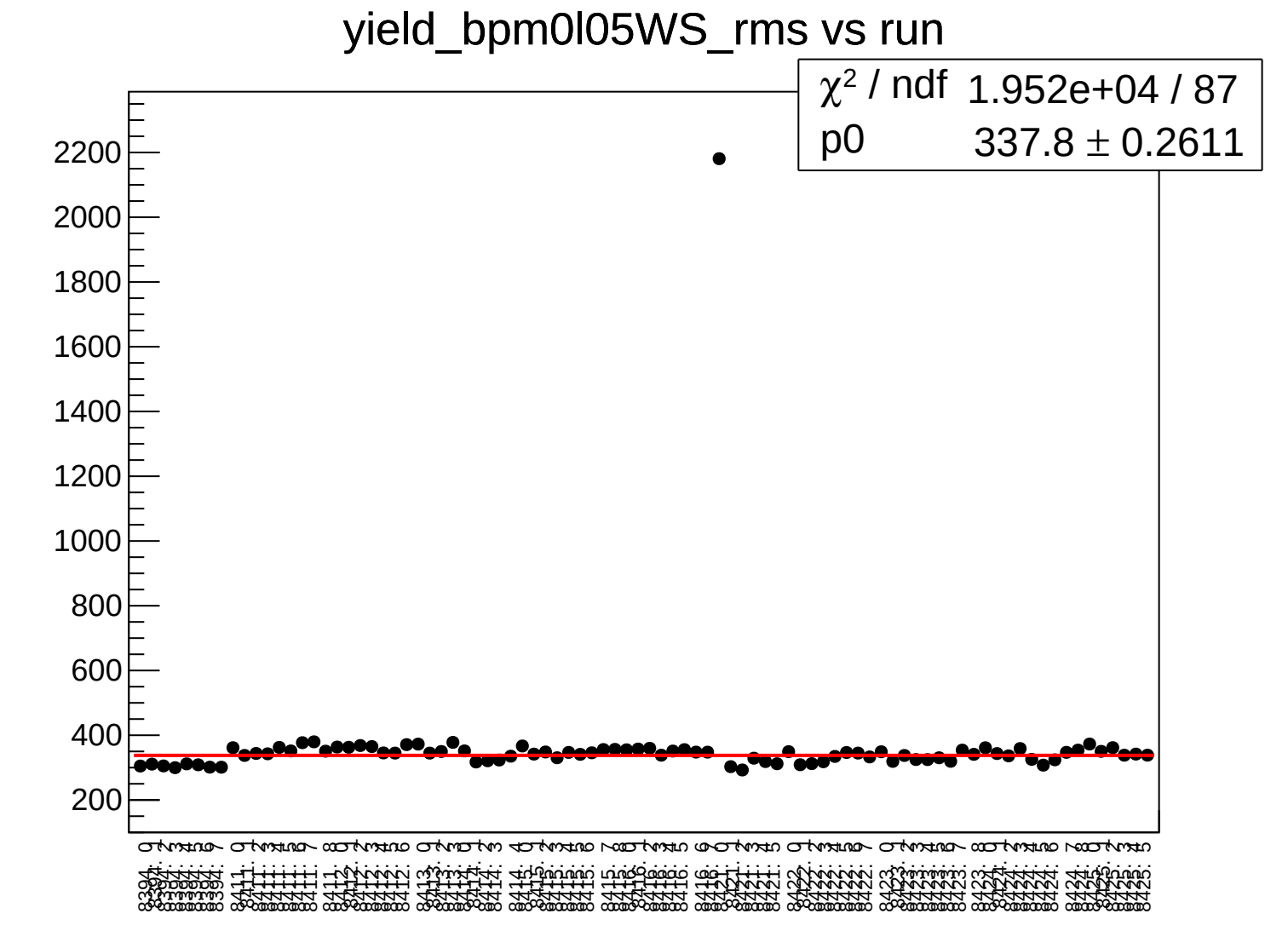

yield_bpm0l03WS_rms vs run
χ² / ndf 3.424e+05 / 87
p0 423.3 ± 0.3643
8000
7000
6000
5000
4000
3000
2000
1000

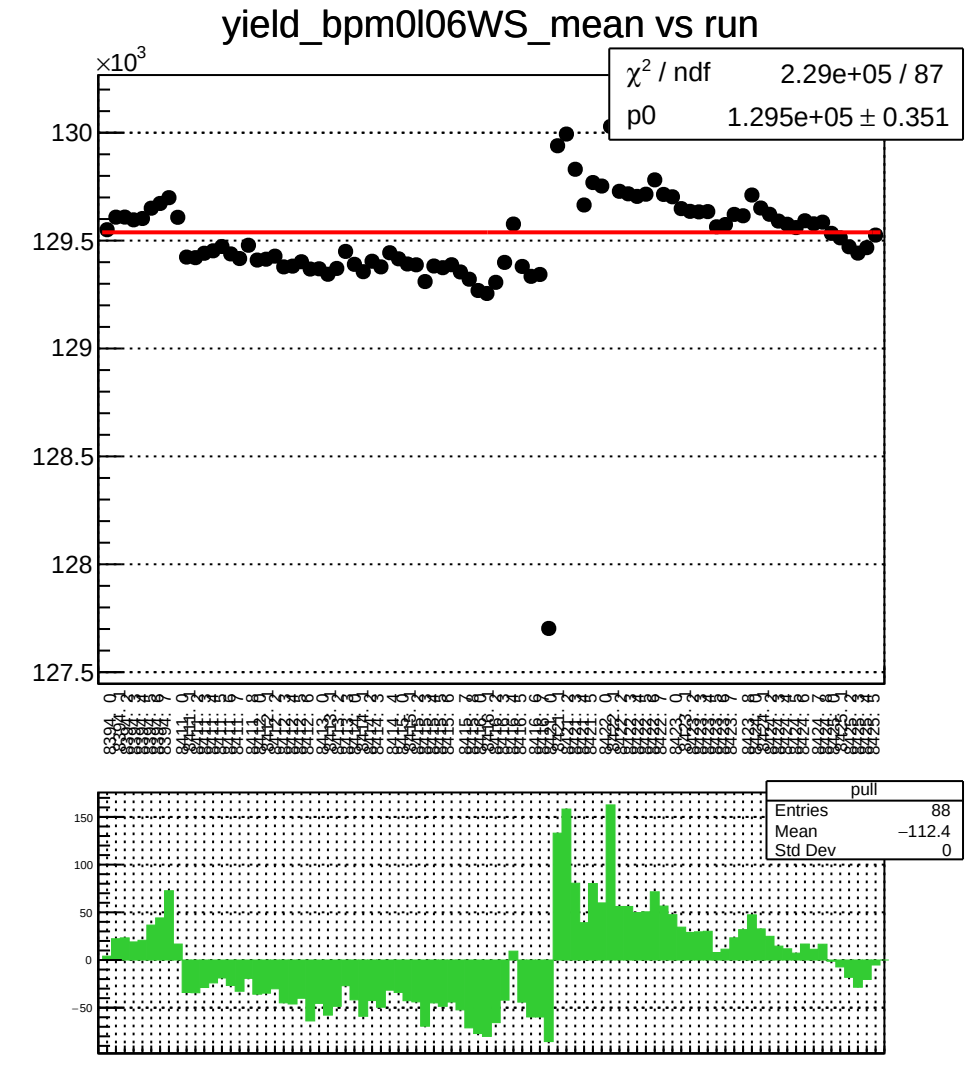

yield_bpm0l04WS_mean vs run
×10^3
χ^2 / ndf 1.315e+06 / 87
p0 1.327e+05 ± 0.4238
134
133.5
133
132.5
132
pull
Entries 88
Mean 821.5
Std Dev 0
300
200
100
0
−100
−200
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

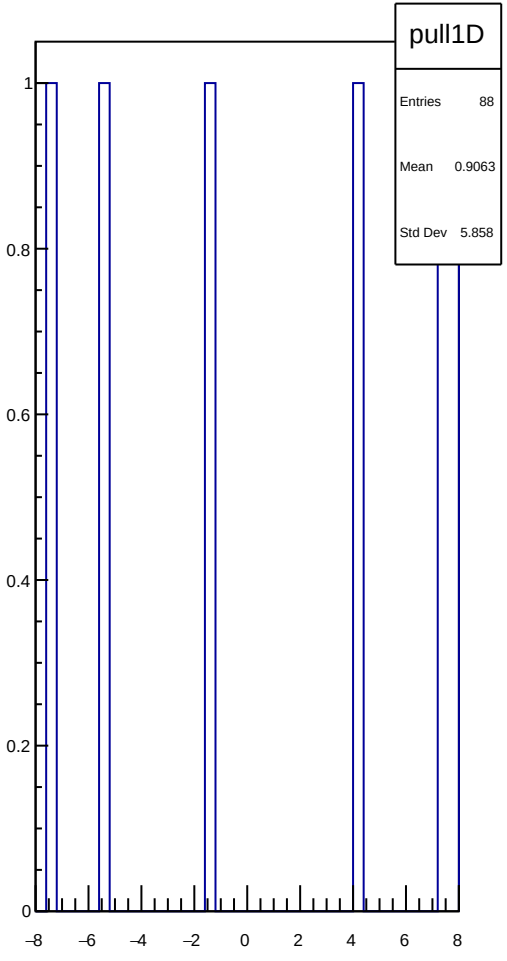

yield_bpm0l04WS_rms vs run
χ² / ndf 3.237e+04 / 87
p0 386.2 ± 0.2997
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

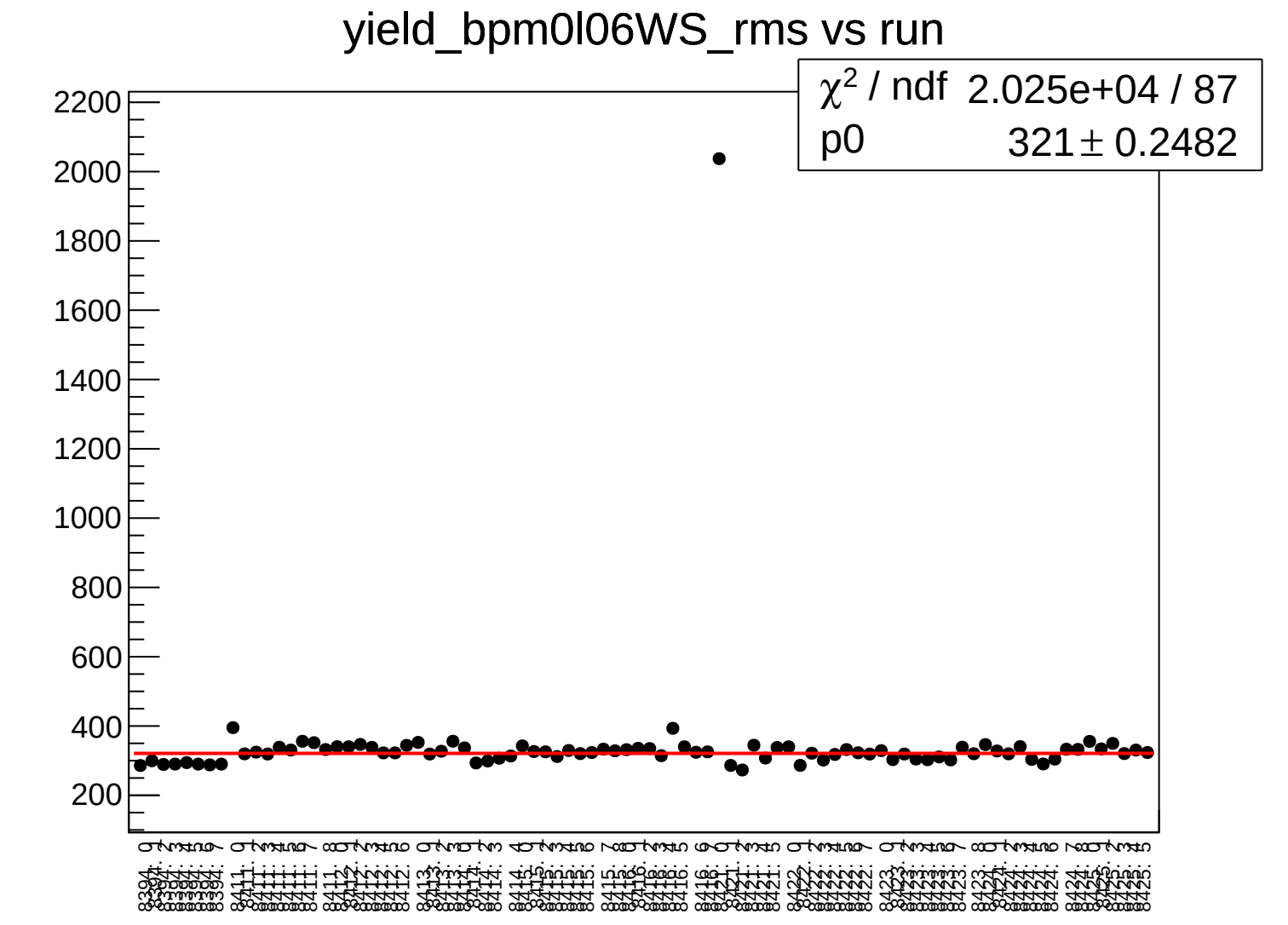

yield_bpm0l05WS_mean vs run
×10^3
χ^2 / ndf 1.24e+05 / 87
p0 1.413e+05 ± 0.3693
141.5
141
140.5
140
139.5
139
138.5
pull
Entries 88
Mean −5206
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100

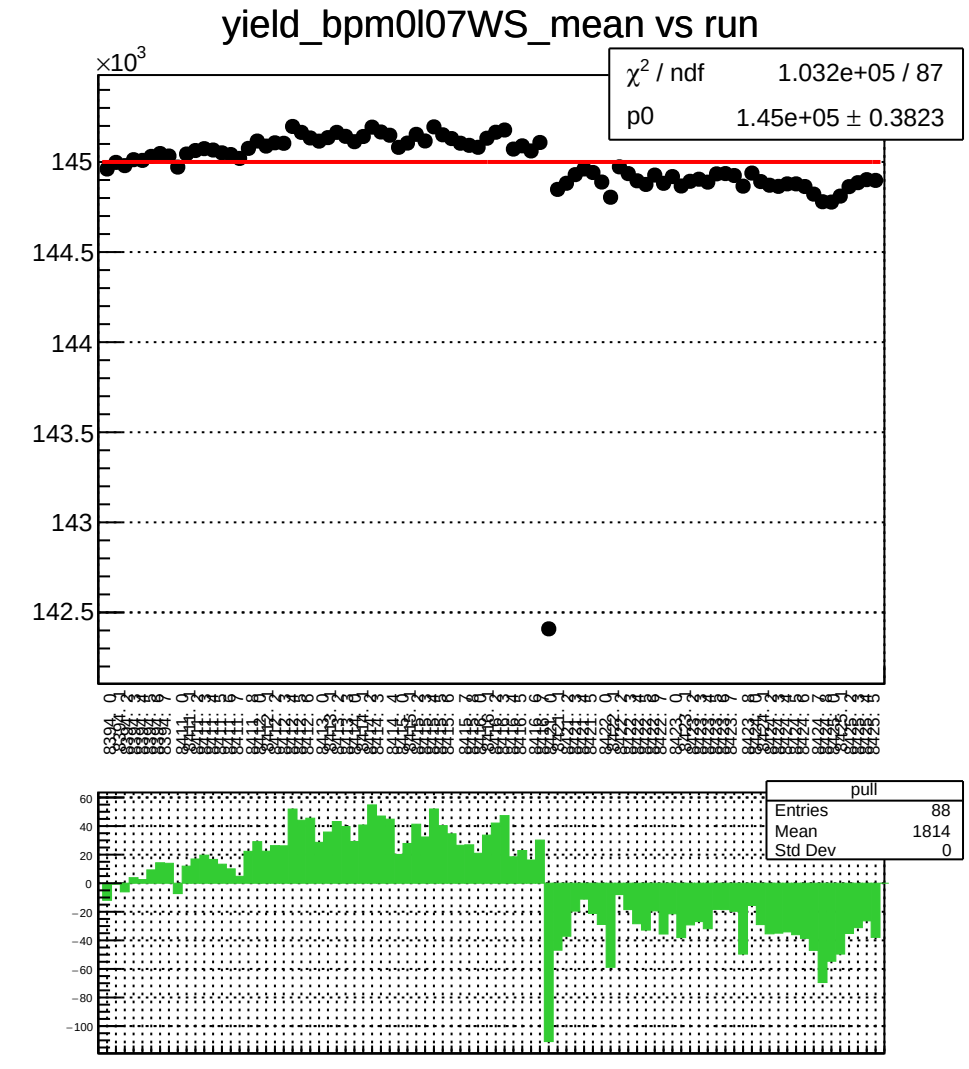

pull1D
Entries 88
Mean −1.654
Std Dev 3.57
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

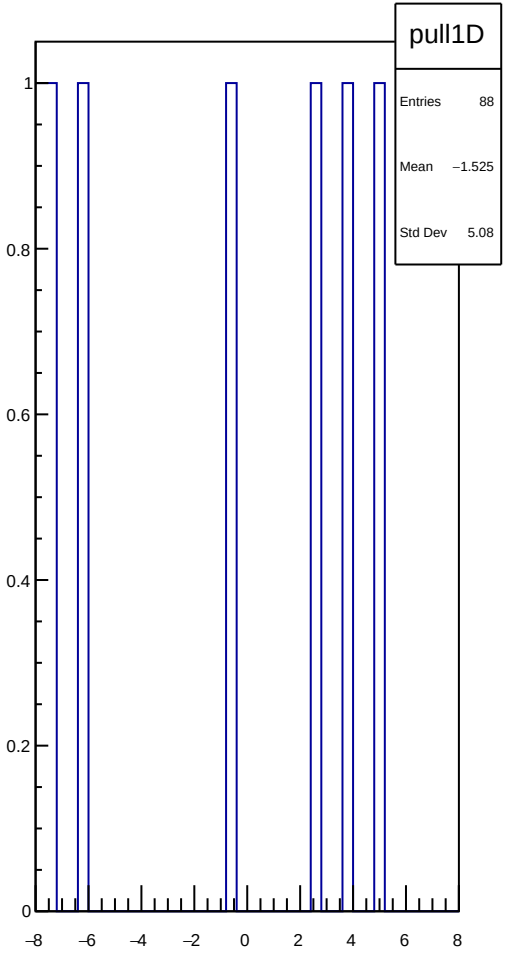

yield_bpm0l05WS_rms vs run
χ² / ndf 1.952e+04 / 87
p0 337.8 ± 0.2611
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

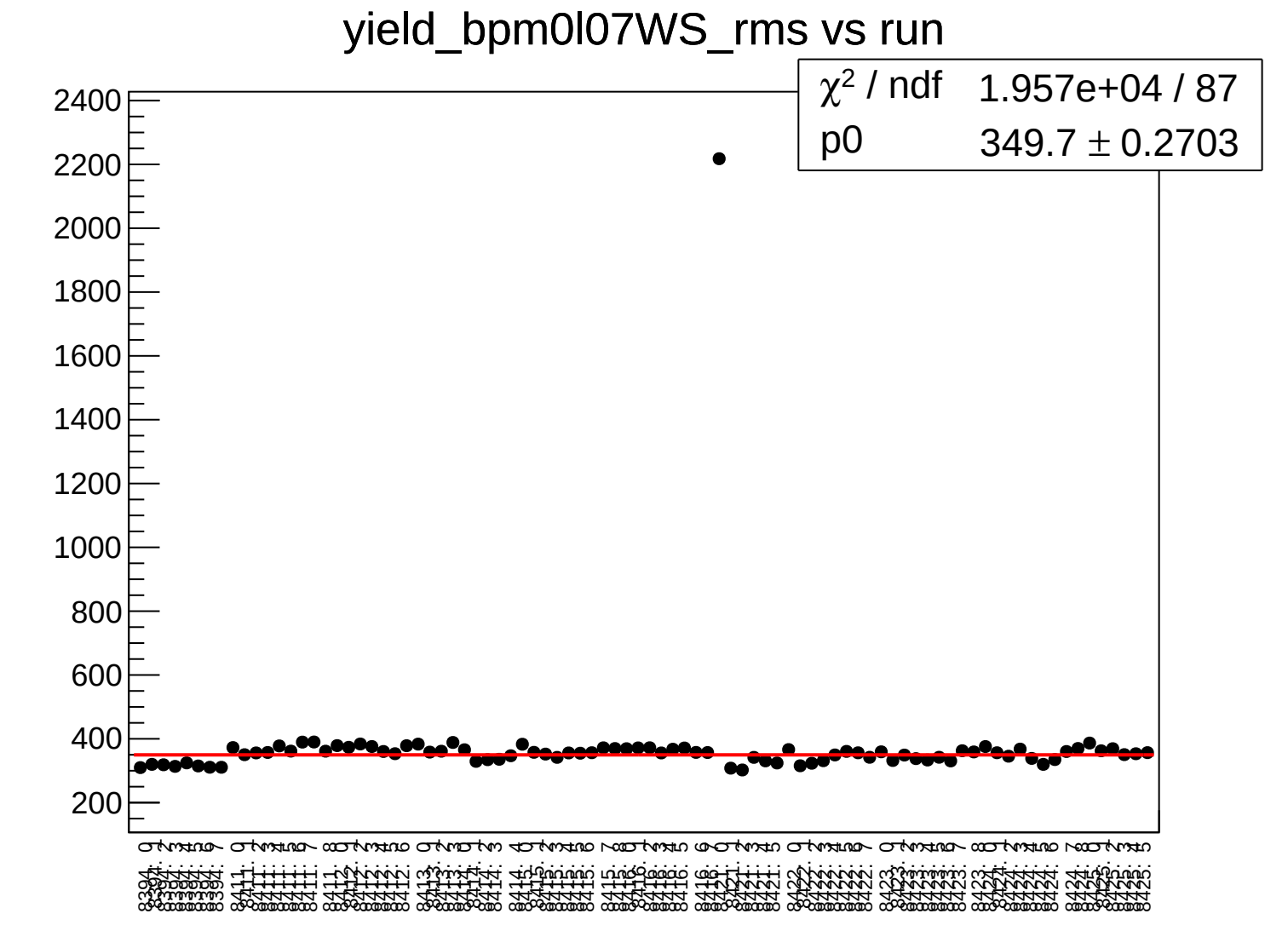

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 2.29e+05 / 87
p0 1.295e+05 ± 0.351
130
129.5
129
128.5
128
127.5
pull
Entries 88
Mean −112.4
Std Dev 0
150
100
50
0
−50

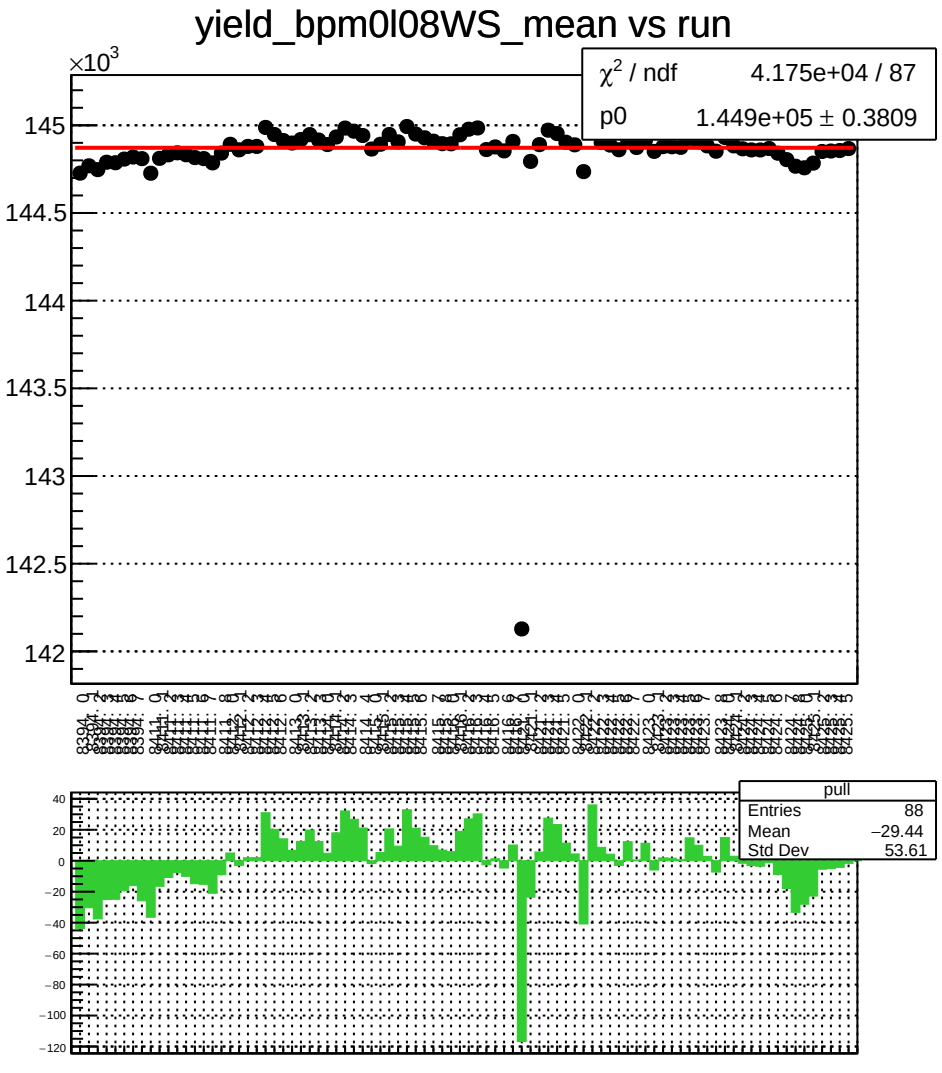

pull1D
Entries 88
Mean 0.9063
Std Dev 5.858
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

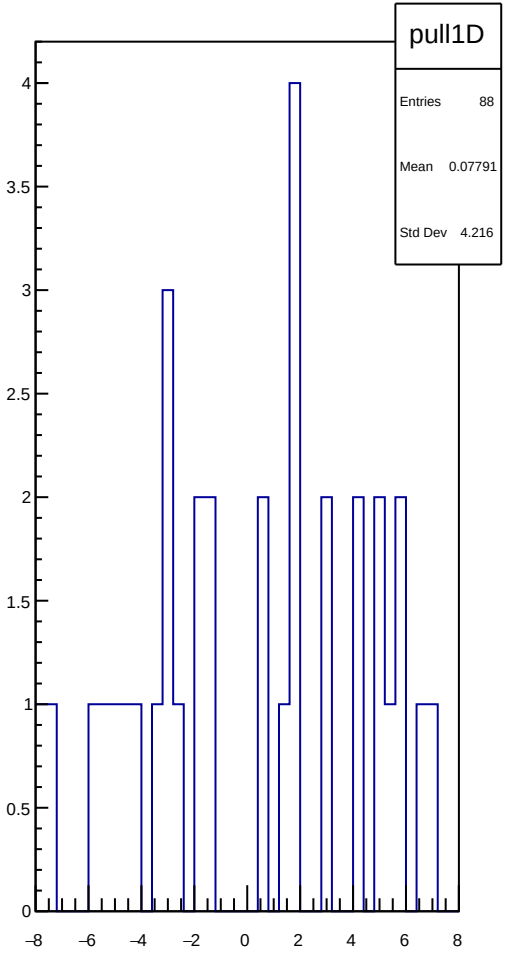

yield_bpm0l06WS_rms vs run
χ^2 / ndf 2.025e+04 / 87
p0 321 ± 0.2482
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

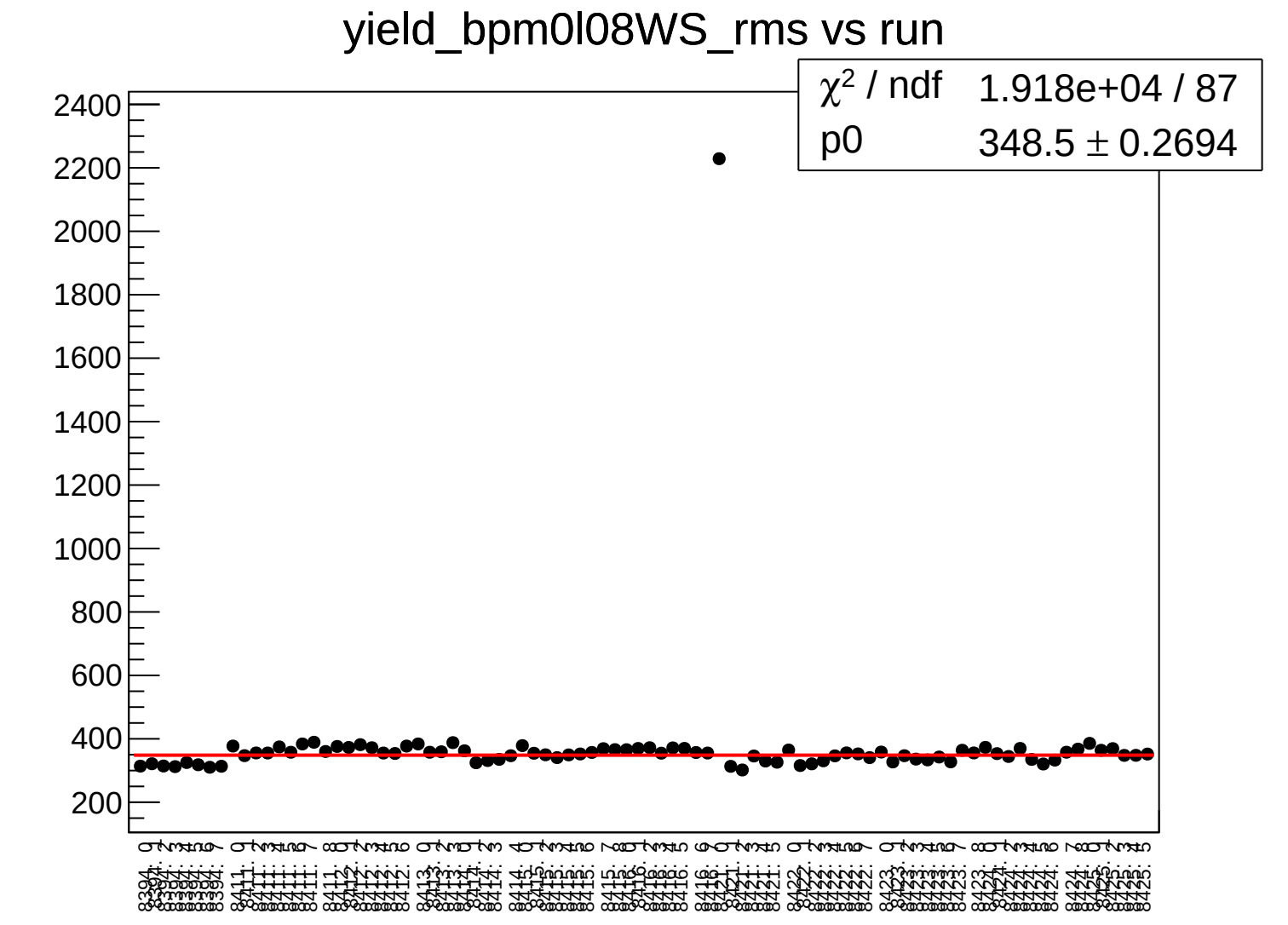

yield_bpm0l07WS_mean vs run
×10^3
χ^2 / ndf 1.032e+05 / 87
p0 1.45e+05 ± 0.3823
145
144.5
144
143.5
143
142.5
pull
Entries 88
Mean 1814
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100

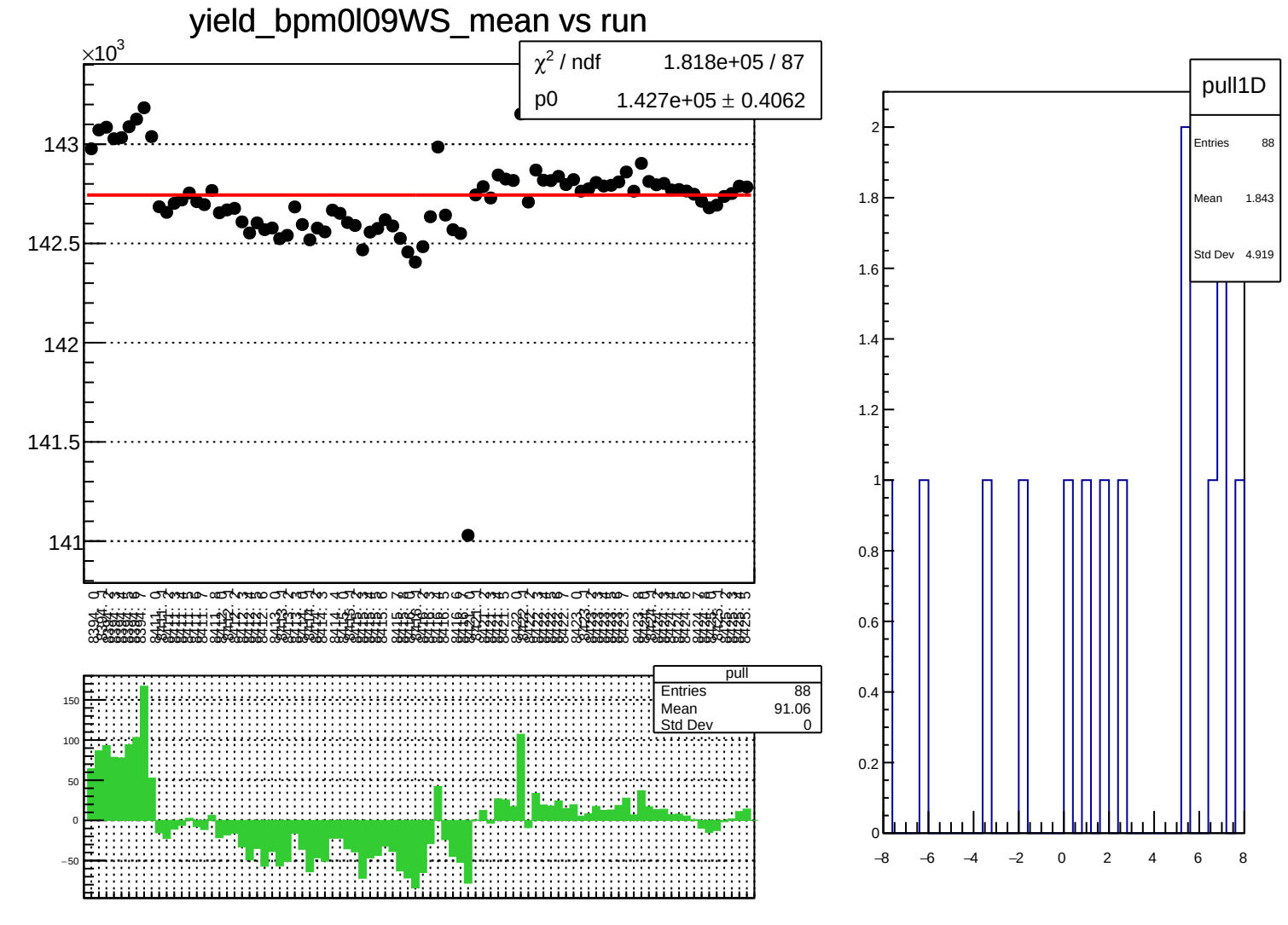

pull1D
Entries 88
Mean −1.525
Std Dev 5.08
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

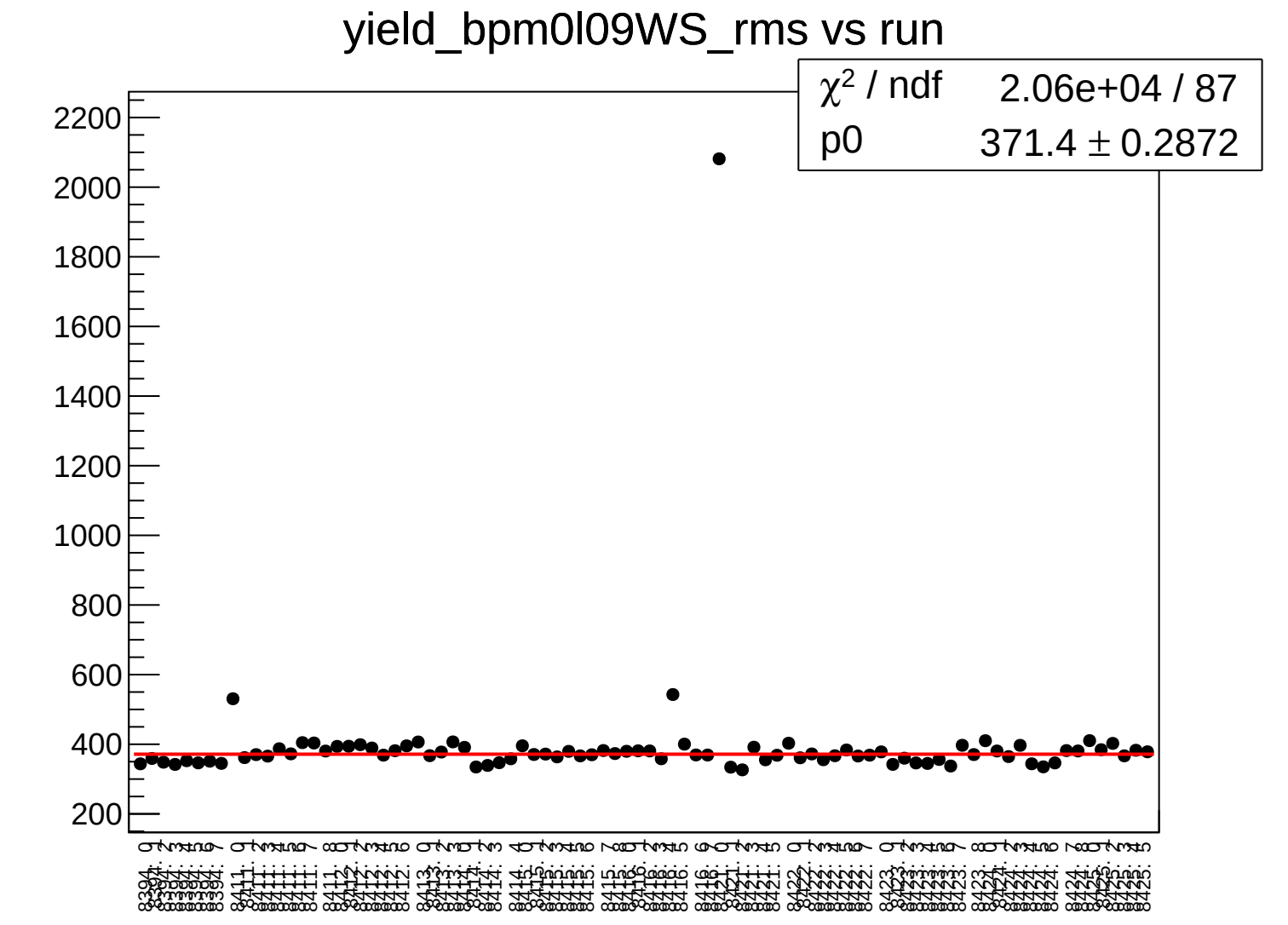

yield_bpm0l07WS_rms vs run
χ² / ndf 1.957e+04 / 87
p0 349.7 ± 0.2703
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

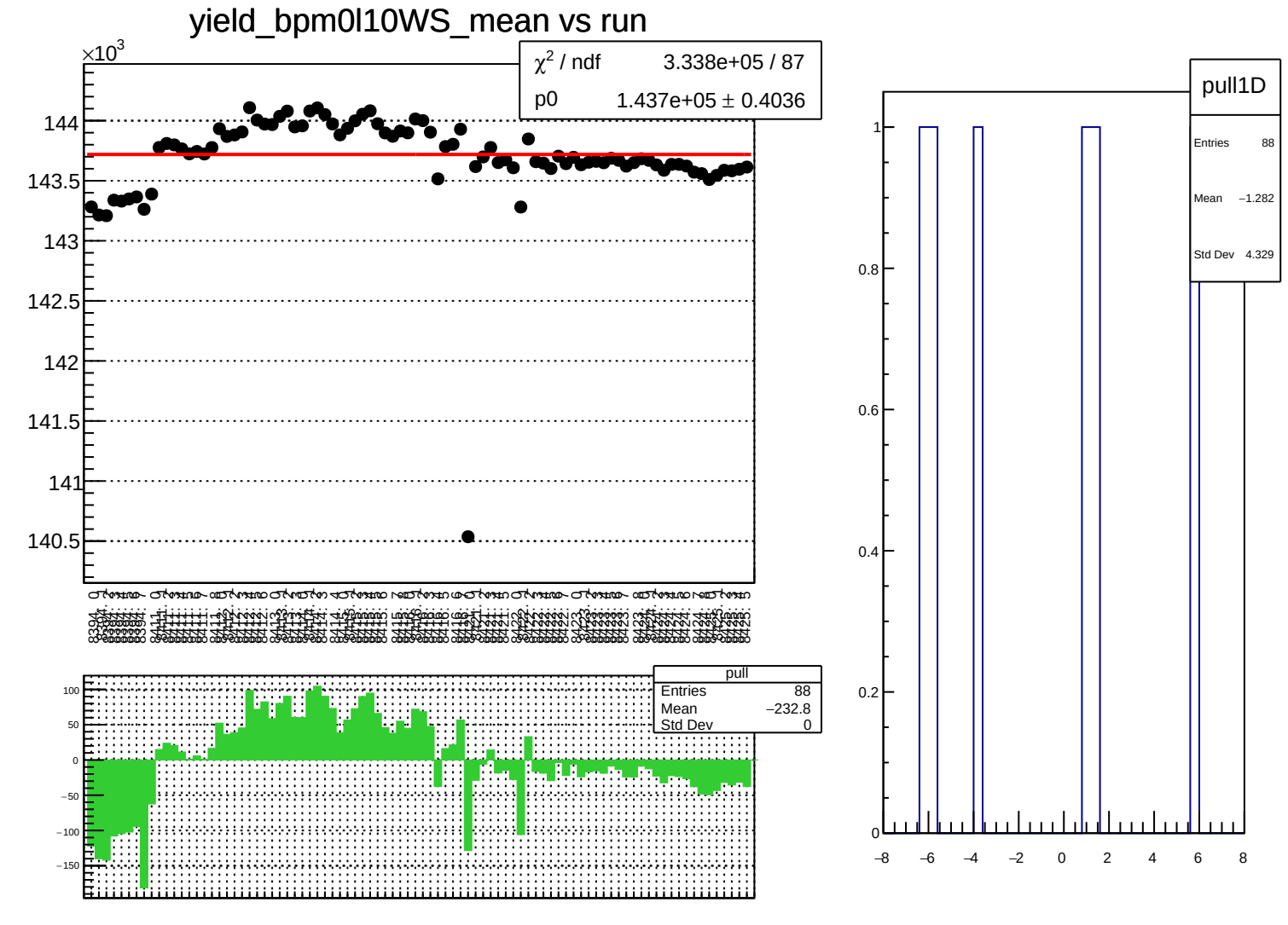

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 4.175e+04 / 87
p0 1.449e+05 ± 0.3809
145
144.5
144
143.5
143
142.5
142
pull
Entries 88
Mean −29.44
Std Dev 53.61
40
20
0
−20
−40
−60
−80
−100
−120

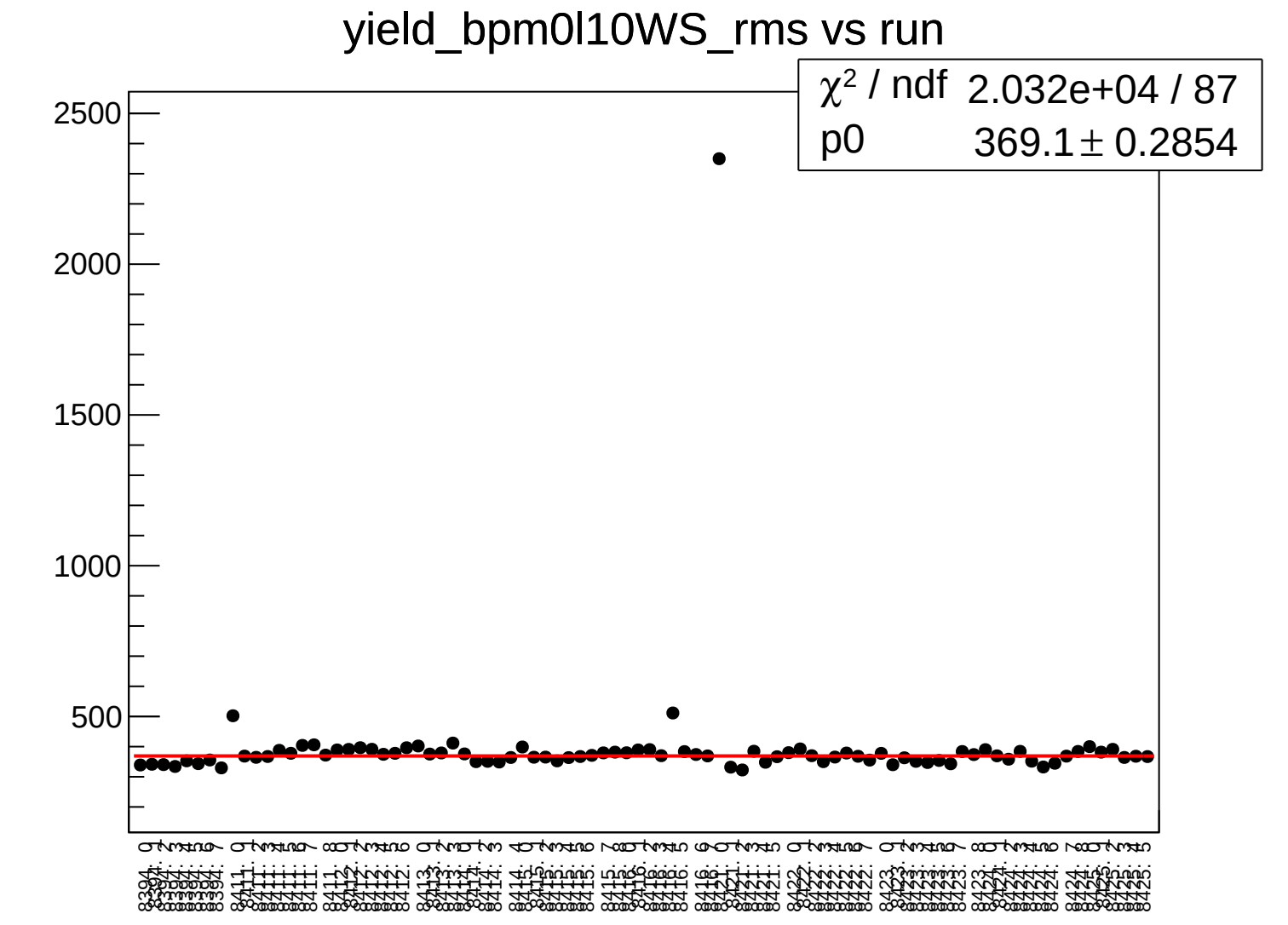

pull1D
Entries 88
Mean 0.07791
Std Dev 4.216
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

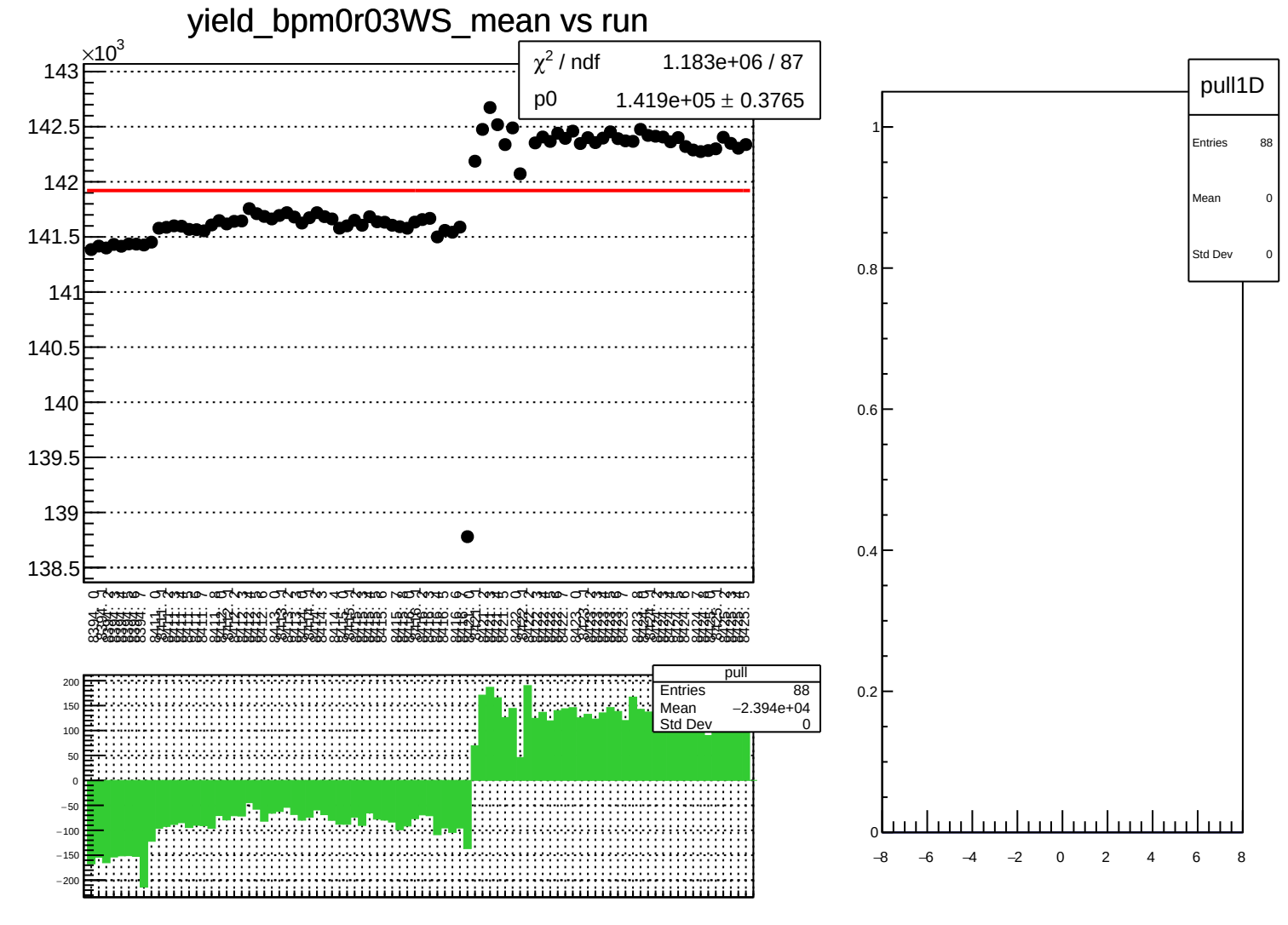

yield_bpm0l08WS_rms vs run
χ² / ndf 1.918e+04 / 87
p0 348.5 ± 0.2694
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

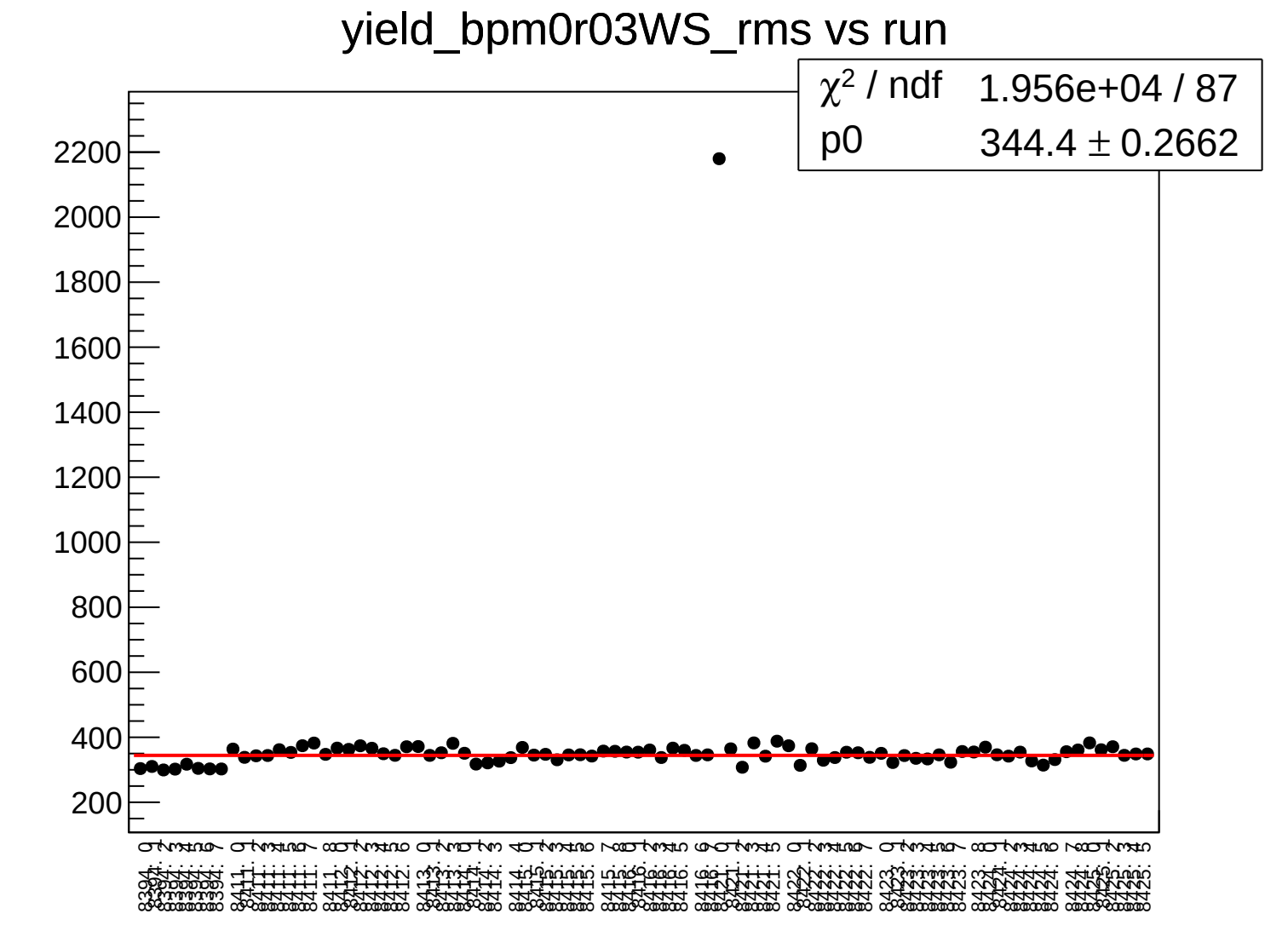

yield_bpm0l09WS_mean vs run
×10^3
χ^2 / ndf 1.818e+05 / 87
p0 1.427e+05 ± 0.4062
143
142.5
142
141.5
141
pull
Entries 88
Mean 91.06
Std Dev 0
150
100
50
0
−50
pull1D
Entries 88
Mean 1.843
Std Dev 4.919
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

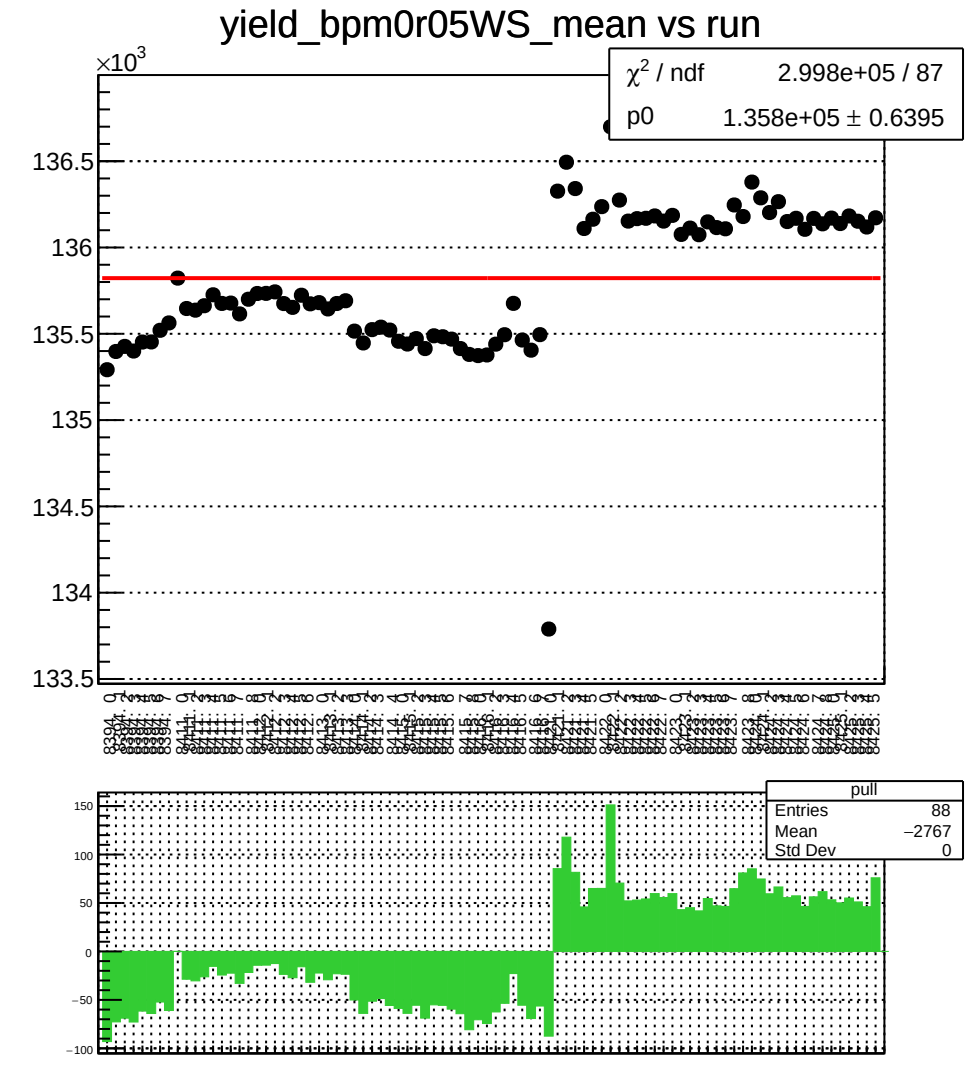

yield_bpm0l09WS_rms vs run
χ² / ndf 2.06e+04 / 87
p0 371.4 ± 0.2872
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

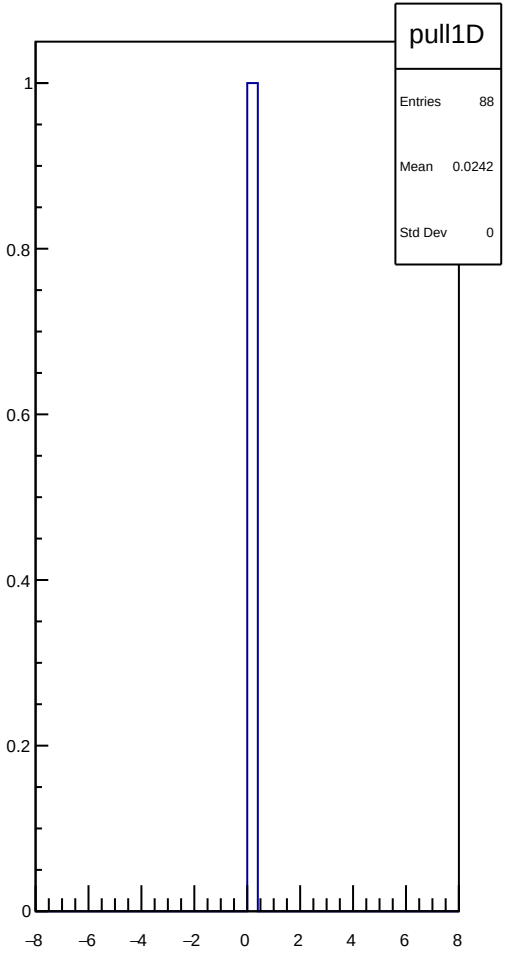

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 3.338e+05 / 87
p0 1.437e+05 ± 0.4036
144
143.5
143
142.5
142
141.5
141
140.5
pull
Entries 88
Mean −232.8
Std Dev 0
100
50
0
−50
−100
−150
pull1D
Entries 88
Mean −1.282
Std Dev 4.329
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

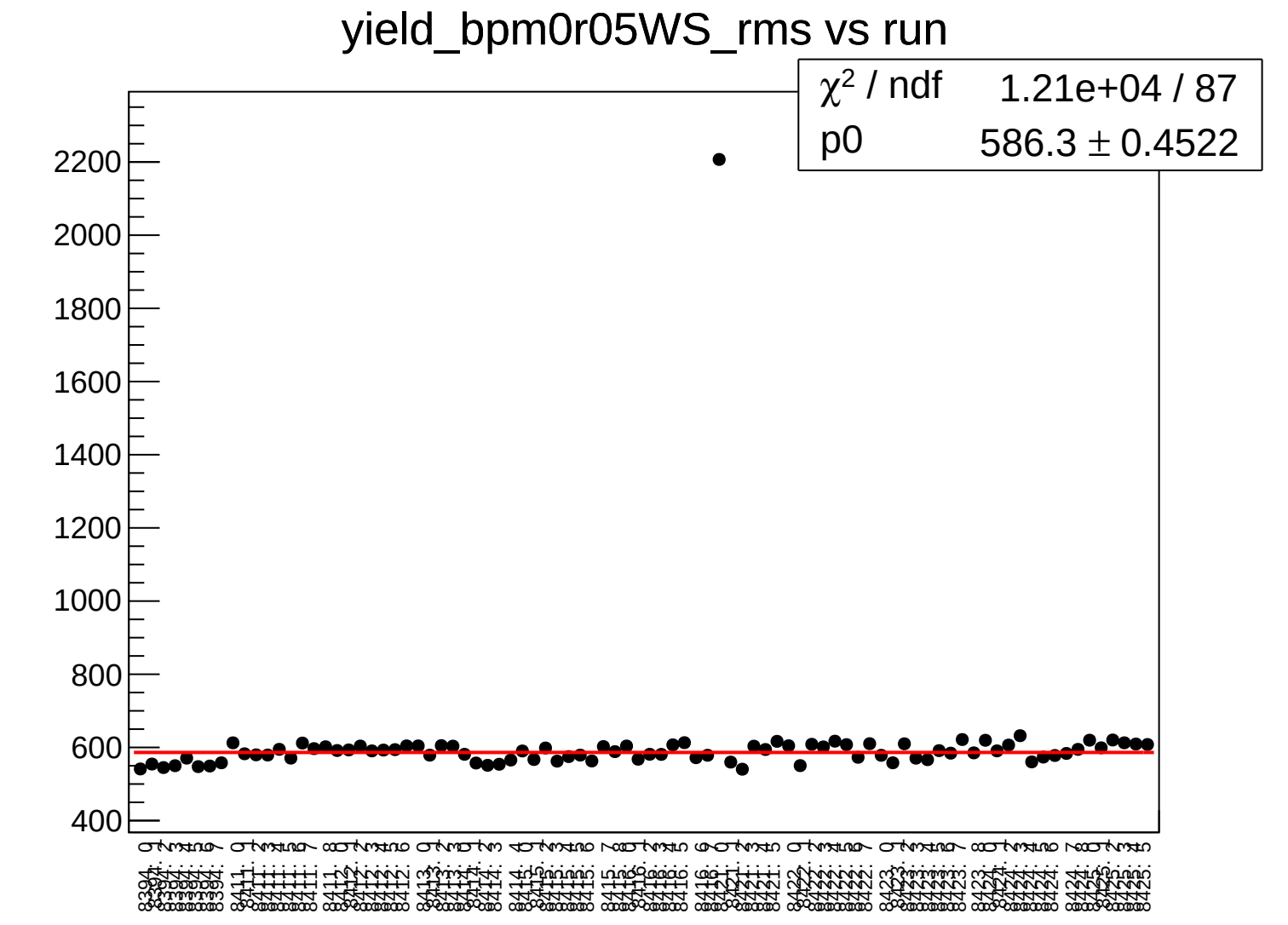

yield_bpm0l10WS_rms vs run
χ² / ndf 2.032e+04 / 87
p0 369.1 ± 0.2854
2500
2000
1500
1000
500

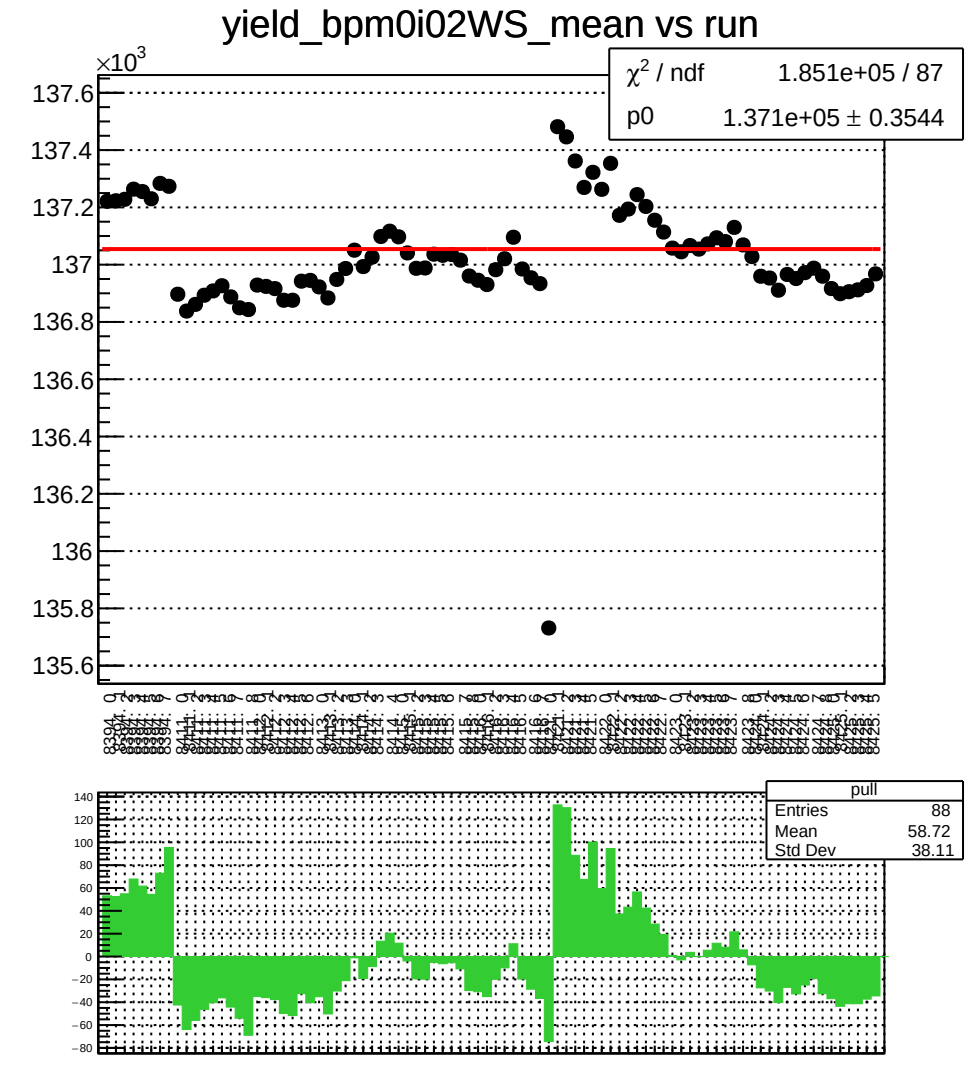

yield_bpm0r03WS_mean vs run
×10^3
143
142.5
142
141.5
141
140.5
140
139.5
139
138.5
χ² / ndf 1.183e+06 / 87
p0 1.419e+05 ± 0.3765
pull
Entries 88
Mean −2.394e+04
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

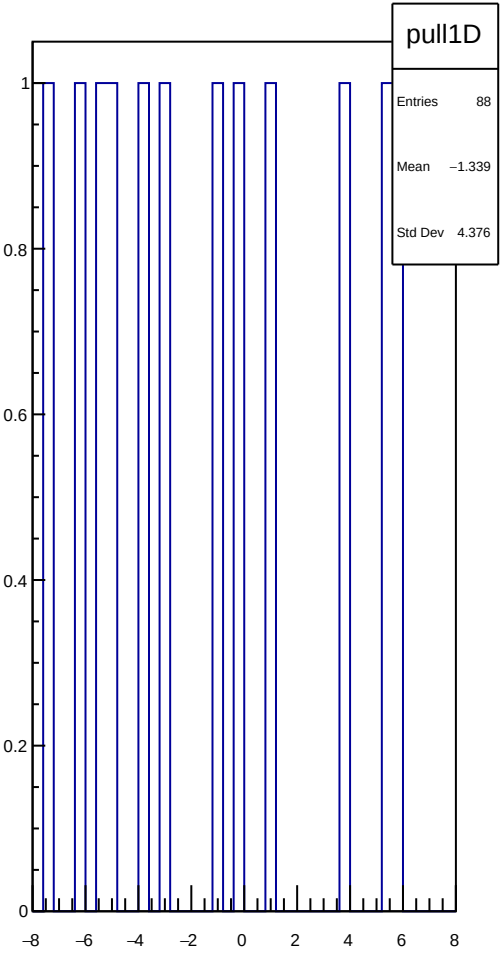

yield_bpm0r03WS_rms vs run
χ² / ndf 1.956e+04 / 87
p0 344.4 ± 0.2662
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

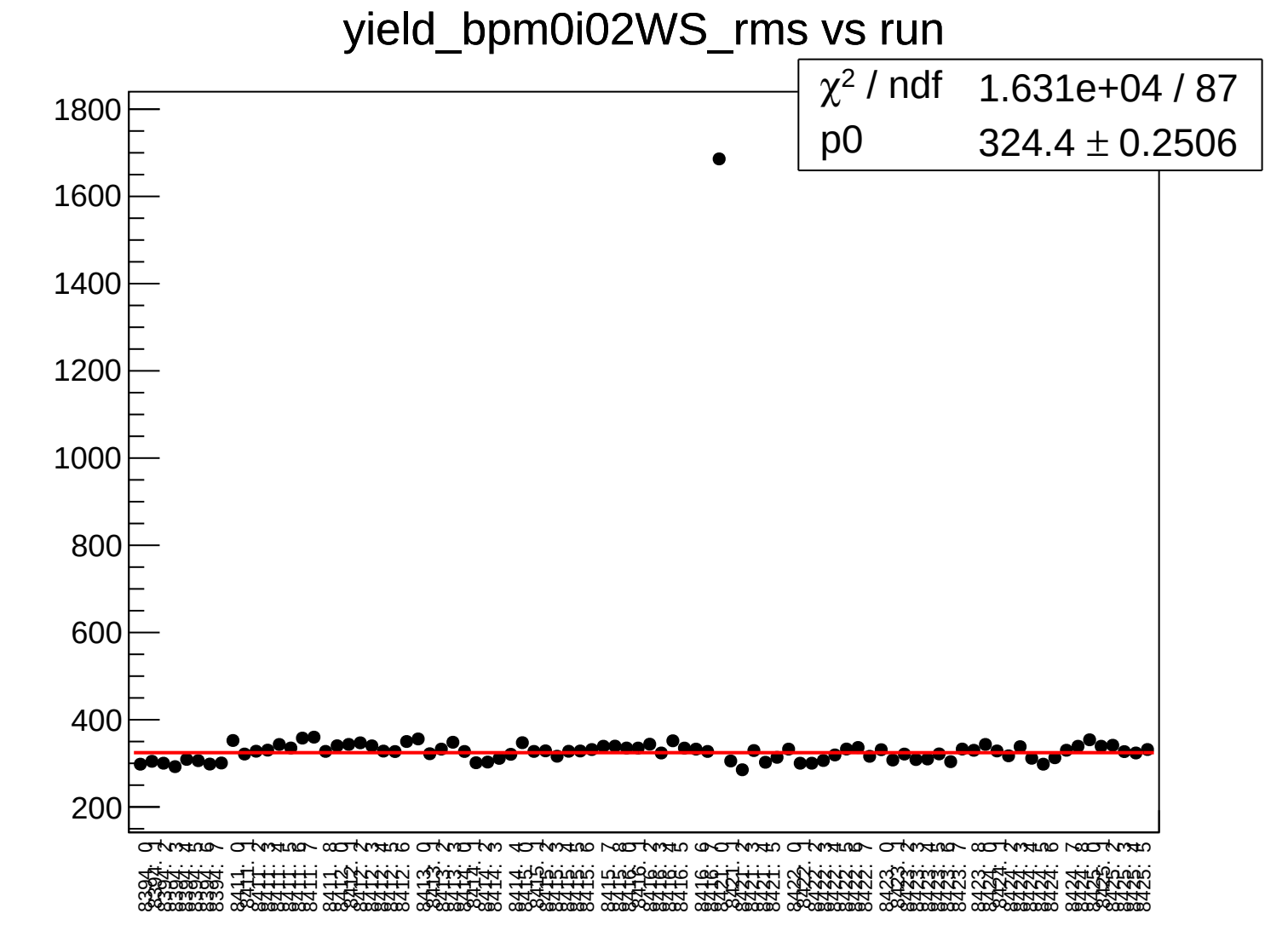

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 2.998e+05 / 87
p0 1.358e+05 ± 0.6395
136.5
136
135.5
135
134.5
134
133.5
pull
Entries 88
Mean −2767
Std Dev 0
150
100
50
0
−50
−100

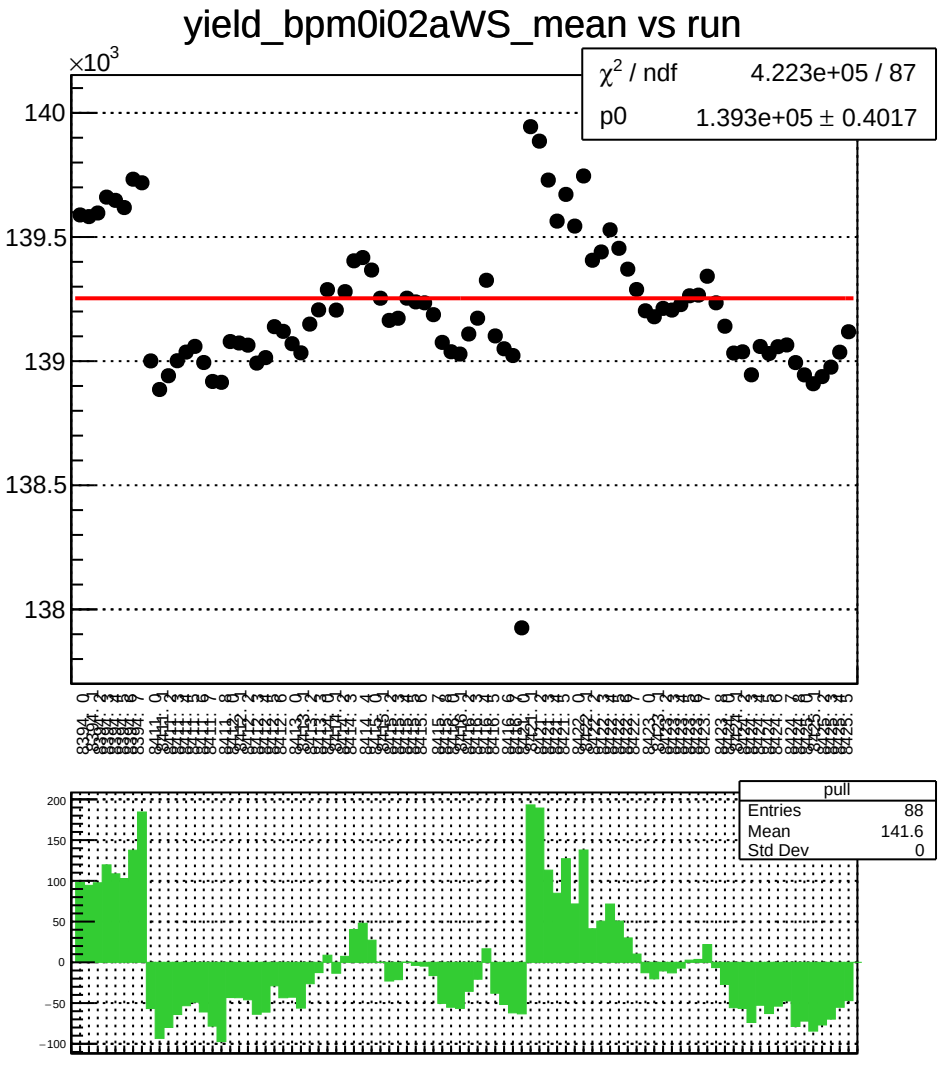

pull1D
Entries 88
Mean 0.0242
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

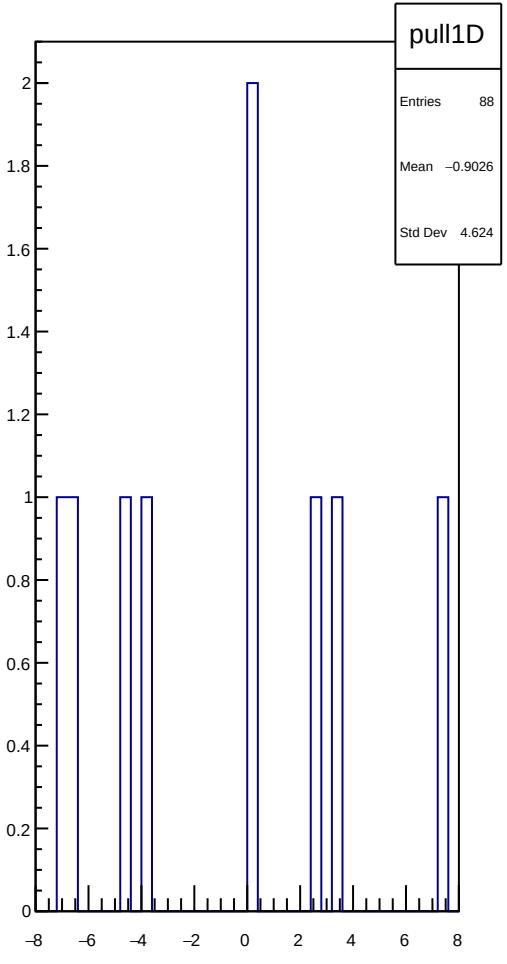

yield_bpm0r05WS_rms vs run
χ² / ndf 1.21e+04 / 87
p0 586.3 ± 0.4522
2200
2000
1800
1600
1400
1200
1000
800
600
400

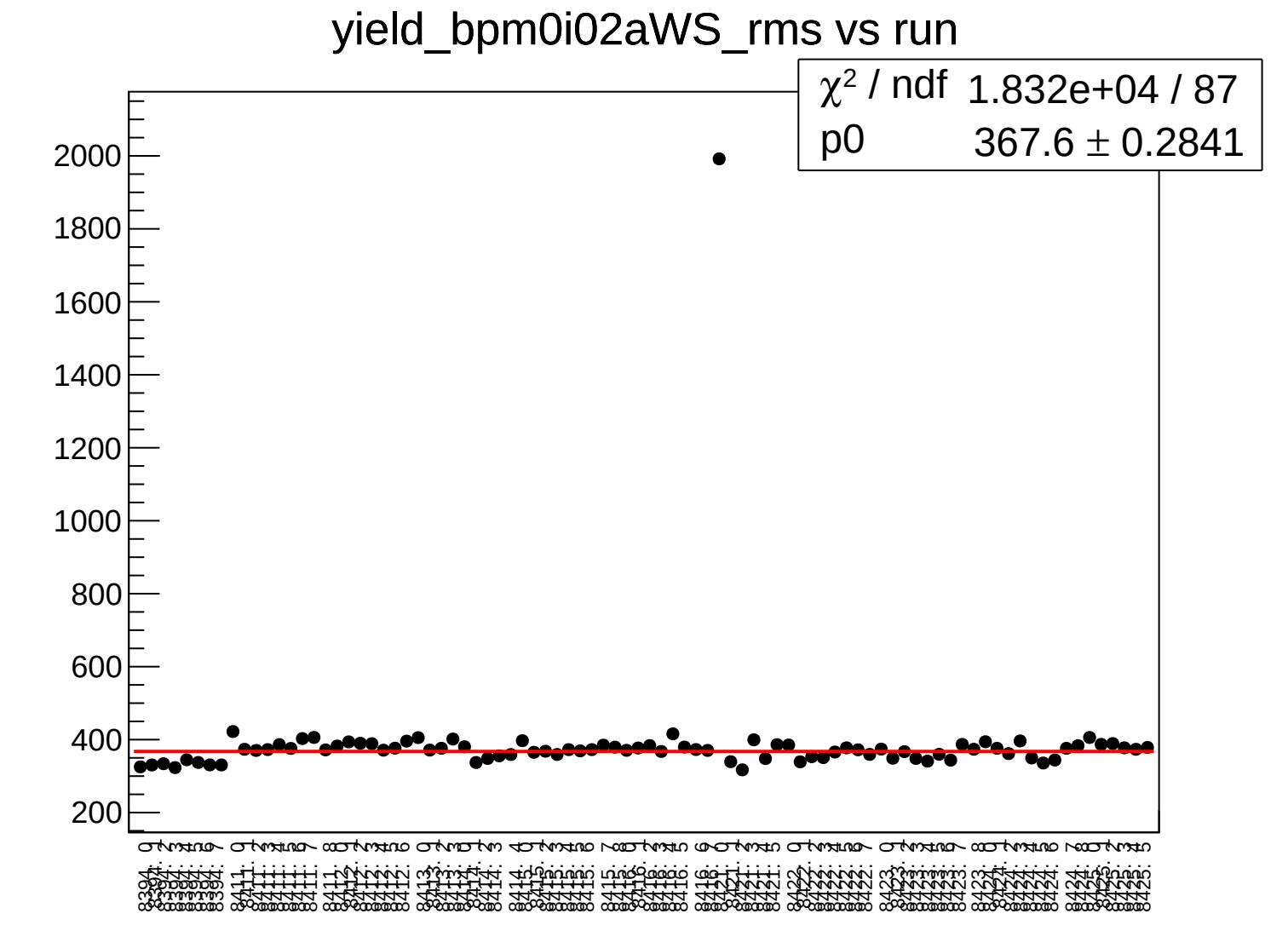

yield_bpm0i02WS_mean vs run
×10^3
χ^2 / ndf 1.851e+05 / 87
p0 1.371e+05 ± 0.3544
137.6
137.4
137.2
137
136.8
136.6
136.4
136.2
136
135.8
135.6
pull
Entries 88
Mean 58.72
Std Dev 38.11
140
120
100
80
60
40
20
0
−20
−40
−60
−80

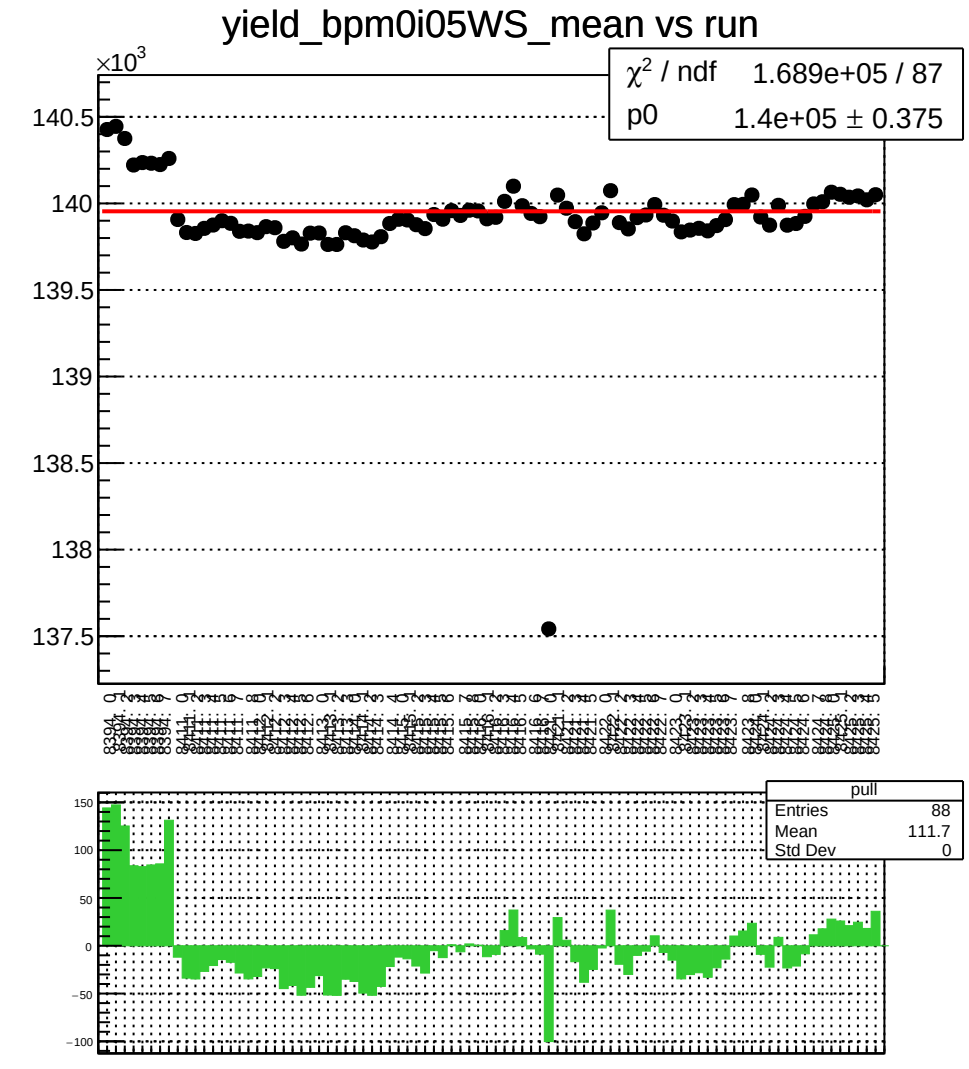

pull1D
Entries 88
Mean −1.339
Std Dev 4.376
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

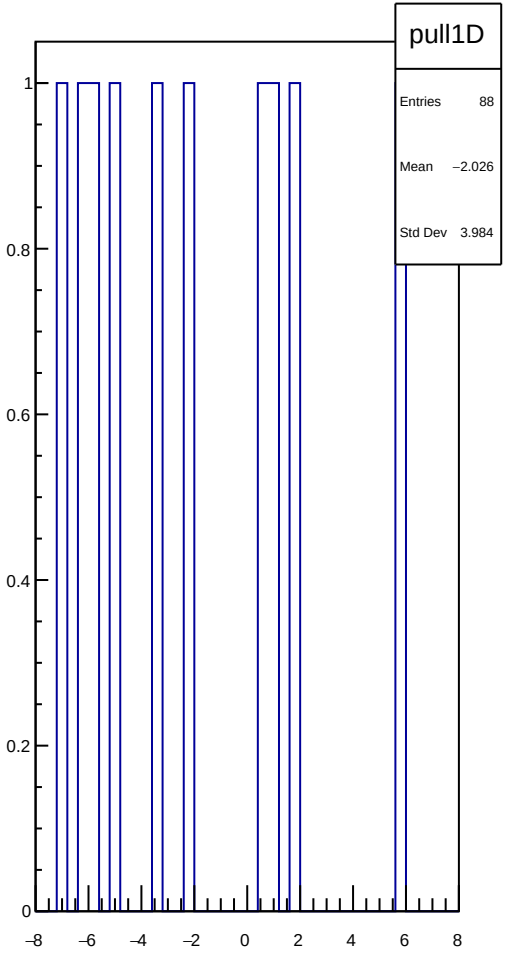

yield_bpm0i02WS_rms vs run
χ² / ndf 1.631e+04 / 87
p0 324.4 ± 0.2506
1800
1600
1400
1200
1000
800
600
400
200

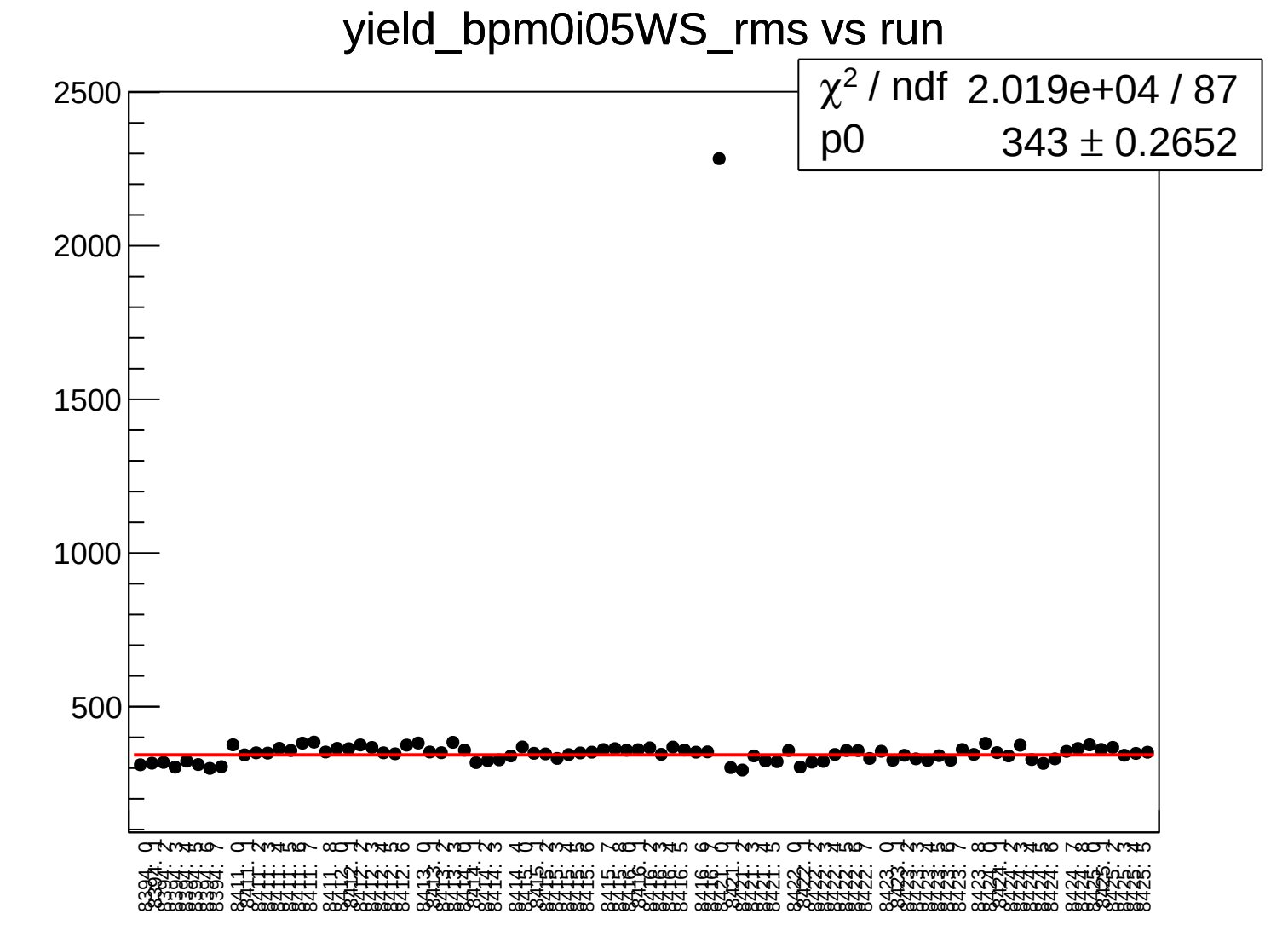

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 4.223e+05 / 87
p0 1.393e+05 ± 0.4017
140
139.5
139
138.5
138
pull
Entries 88
Mean 141.6
Std Dev 0
200
150
100
50
0
−50
−100

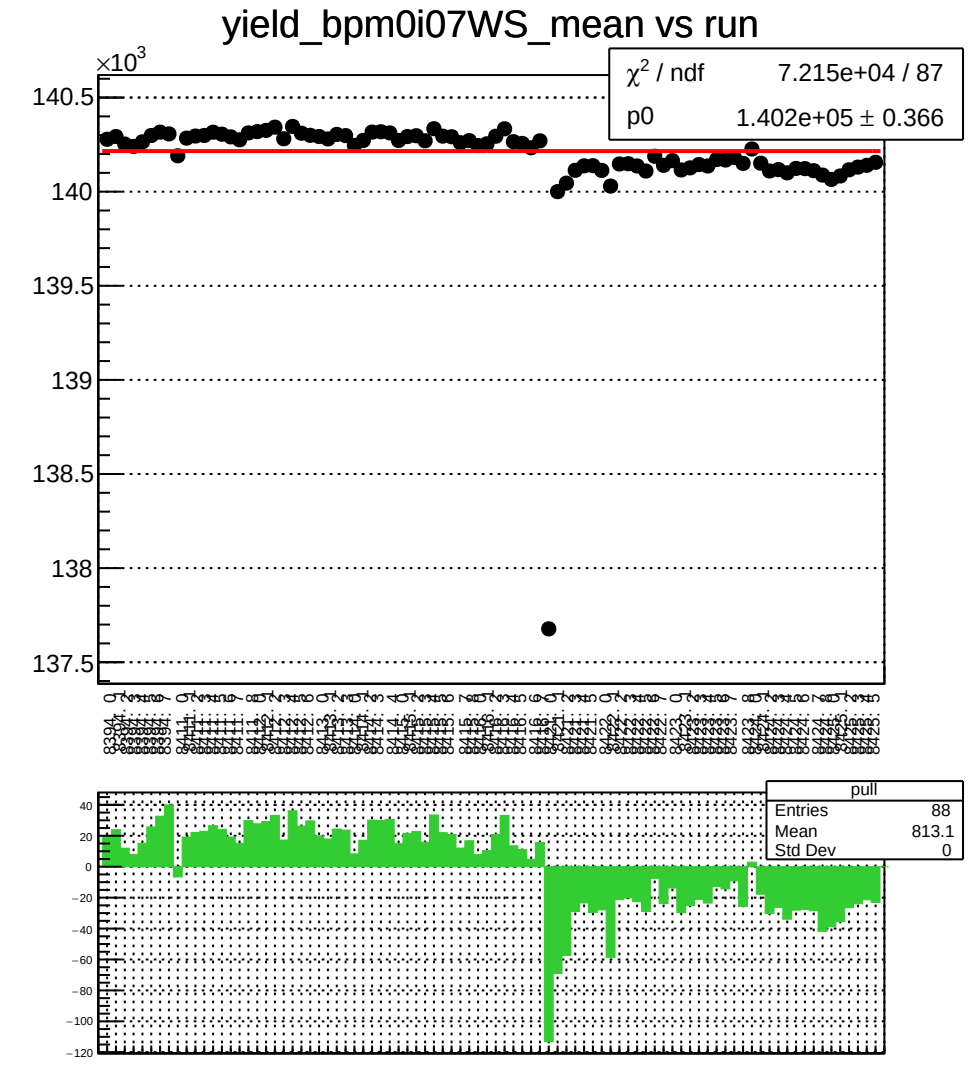

pull1D
Entries 88
Mean −0.9026
Std Dev 4.624
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

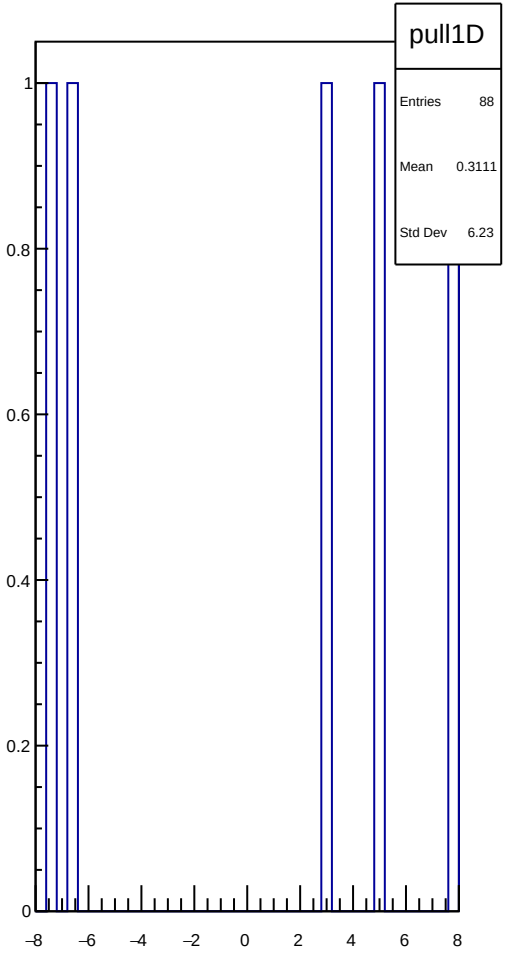

yield_bpm0i02aWS_rms vs run
χ² / ndf 1.832e+04 / 87
p0 367.6 ± 0.2841
2000
1800
1600
1400
1200
1000
800
600
400
200

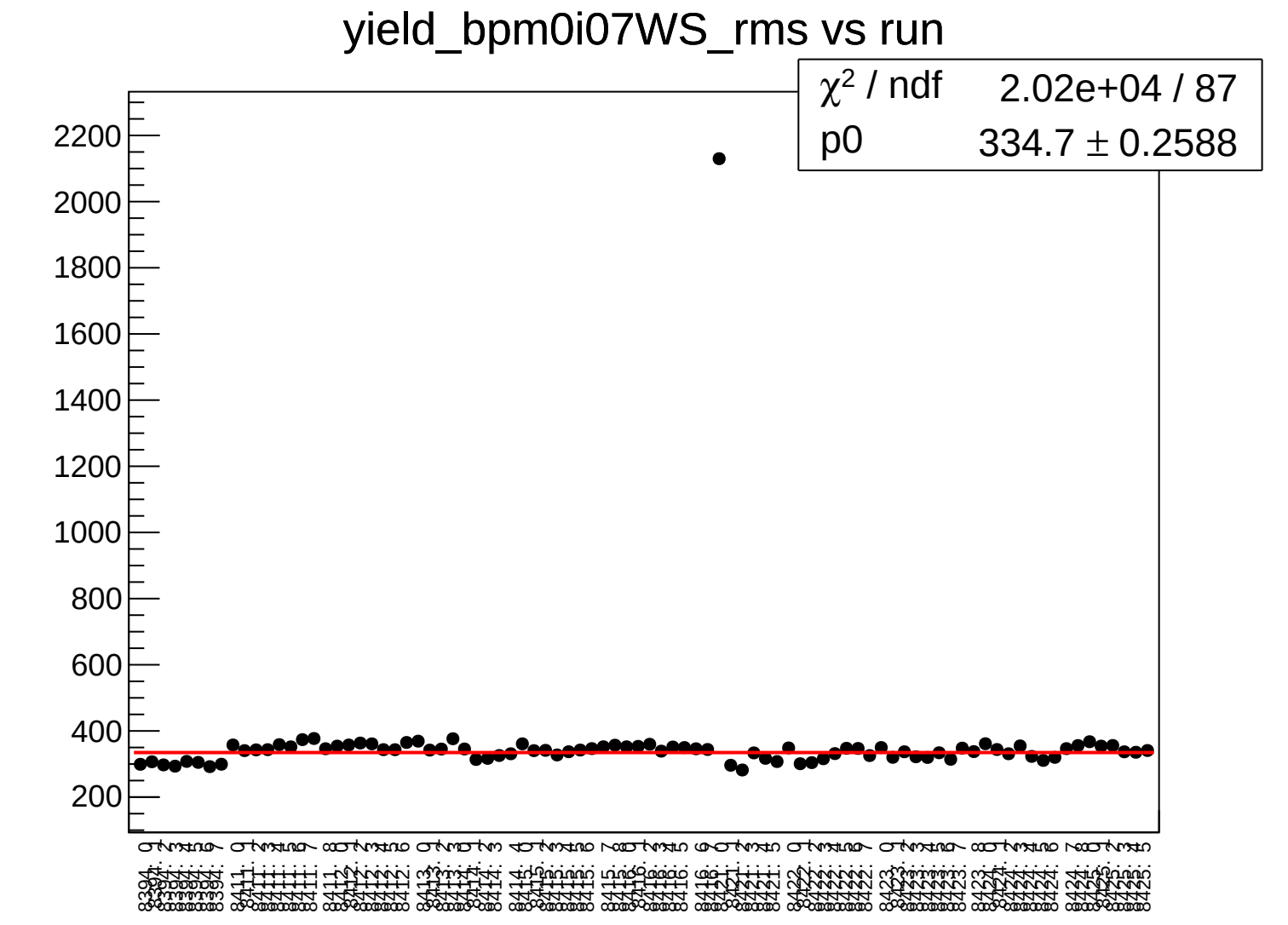

yield_bpm0i05WS_mean vs run
×10^3
χ^2 / ndf 1.689e+05 / 87
p0 1.4e+05 ± 0.375
140.5
140
139.5
139
138.5
138
137.5
pull
Entries 88
Mean 111.7
Std Dev 0
150
100
50
0
−50
−100

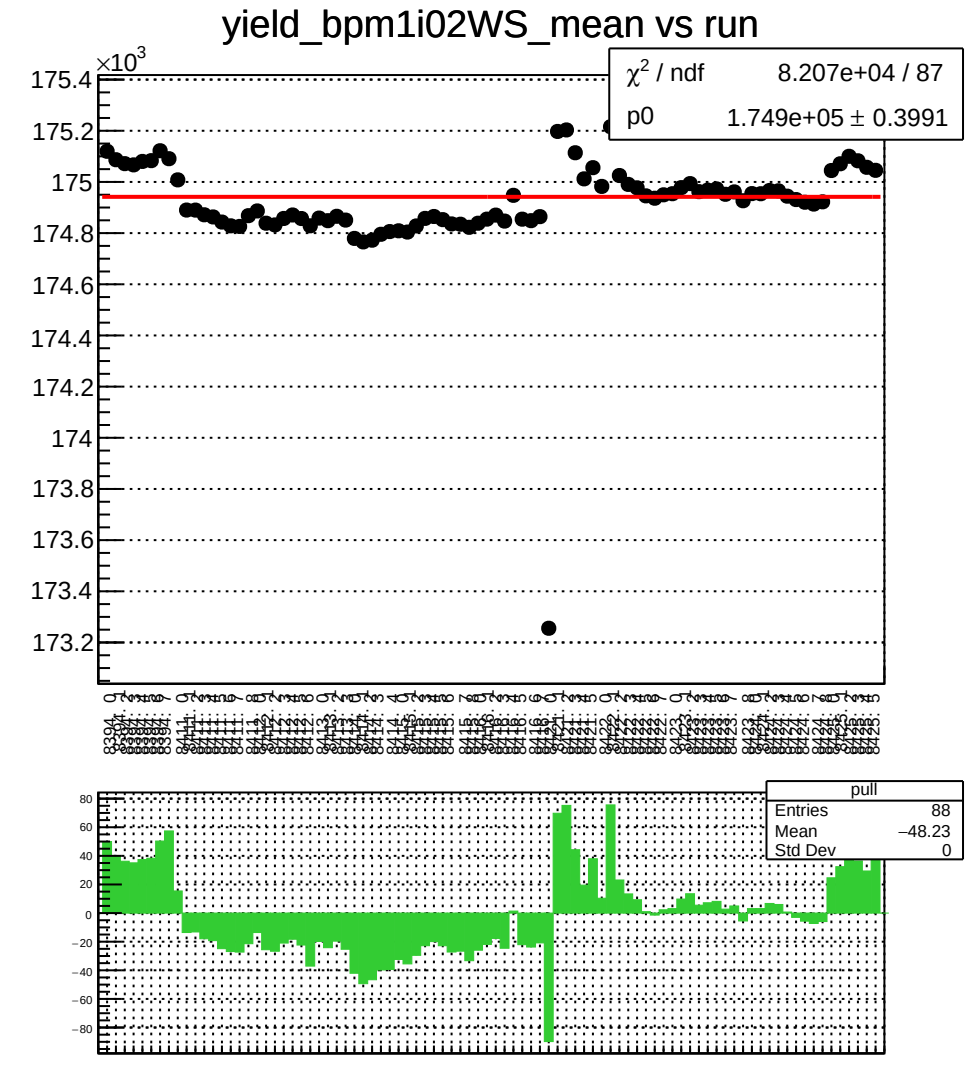

pull1D
Entries 88
Mean −2.026
Std Dev 3.984
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

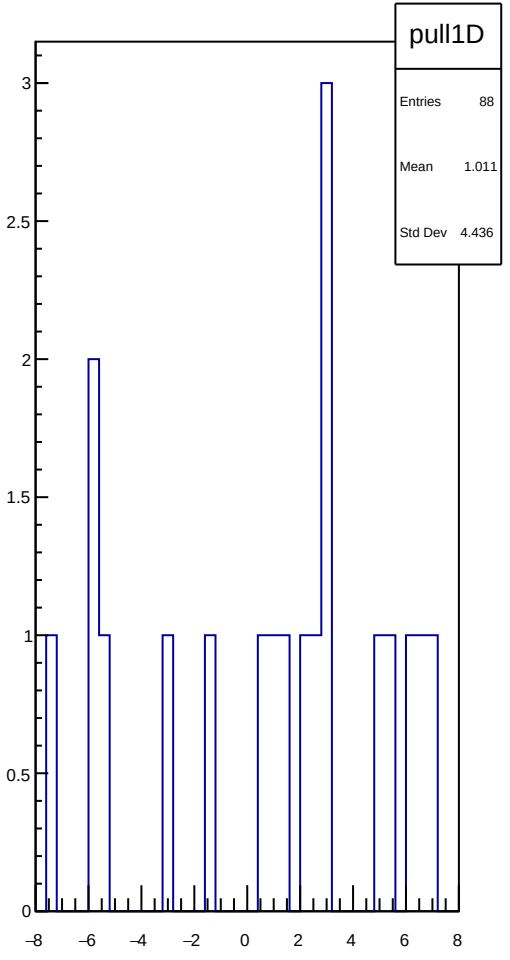

yield_bpm0i05WS_rms vs run
χ^2 / ndf 2.019e+04 / 87
p0 343 ± 0.2652
2500
2000
1500
1000
500

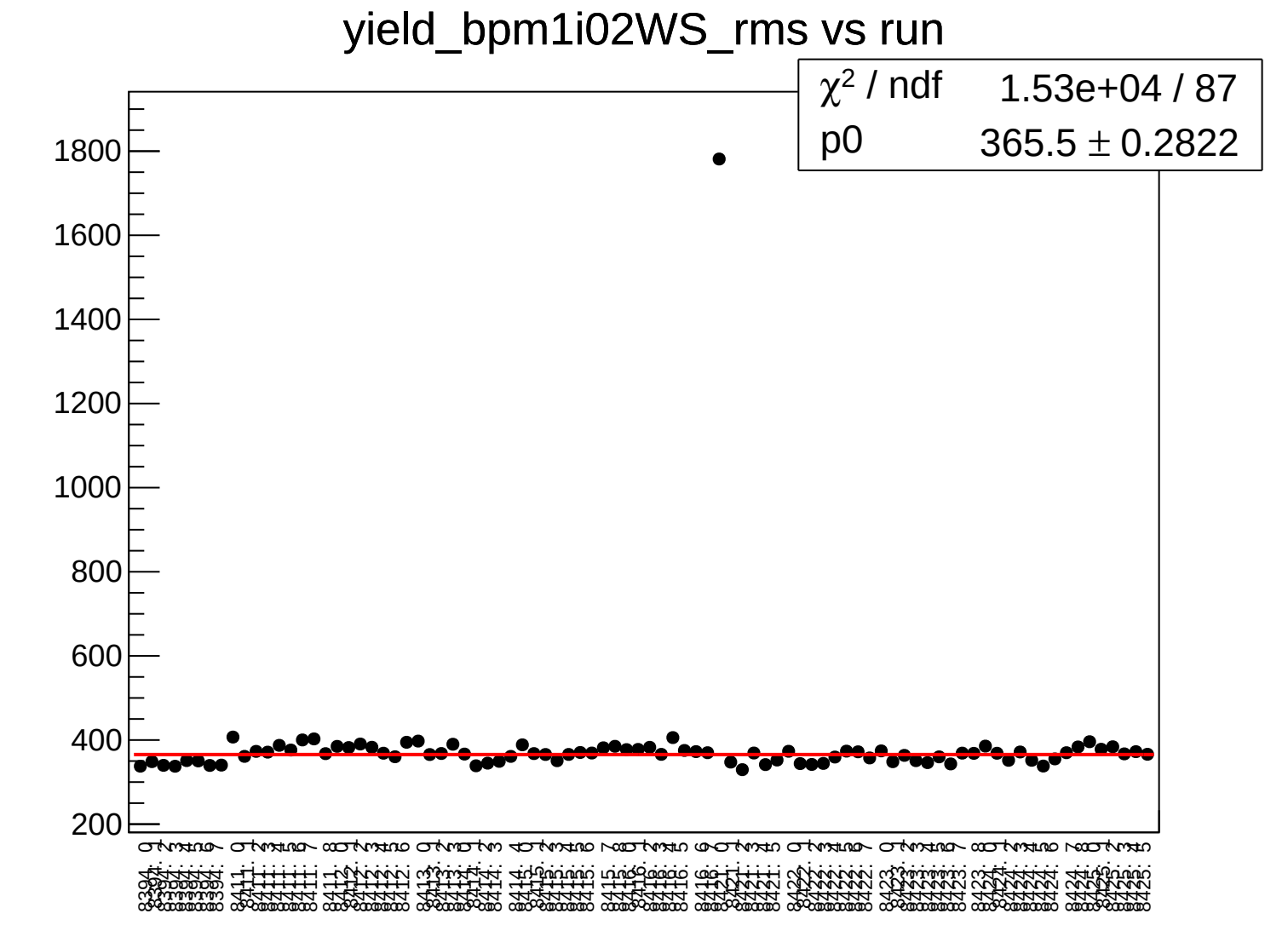

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 7.215e+04 / 87
p0 1.402e+05 ± 0.366
140.5
140
139.5
139
138.5
138
137.5
pull
Entries 88
Mean 813.1
Std Dev 0
40
20
0
−20
−40
−60
−80
−100
−120

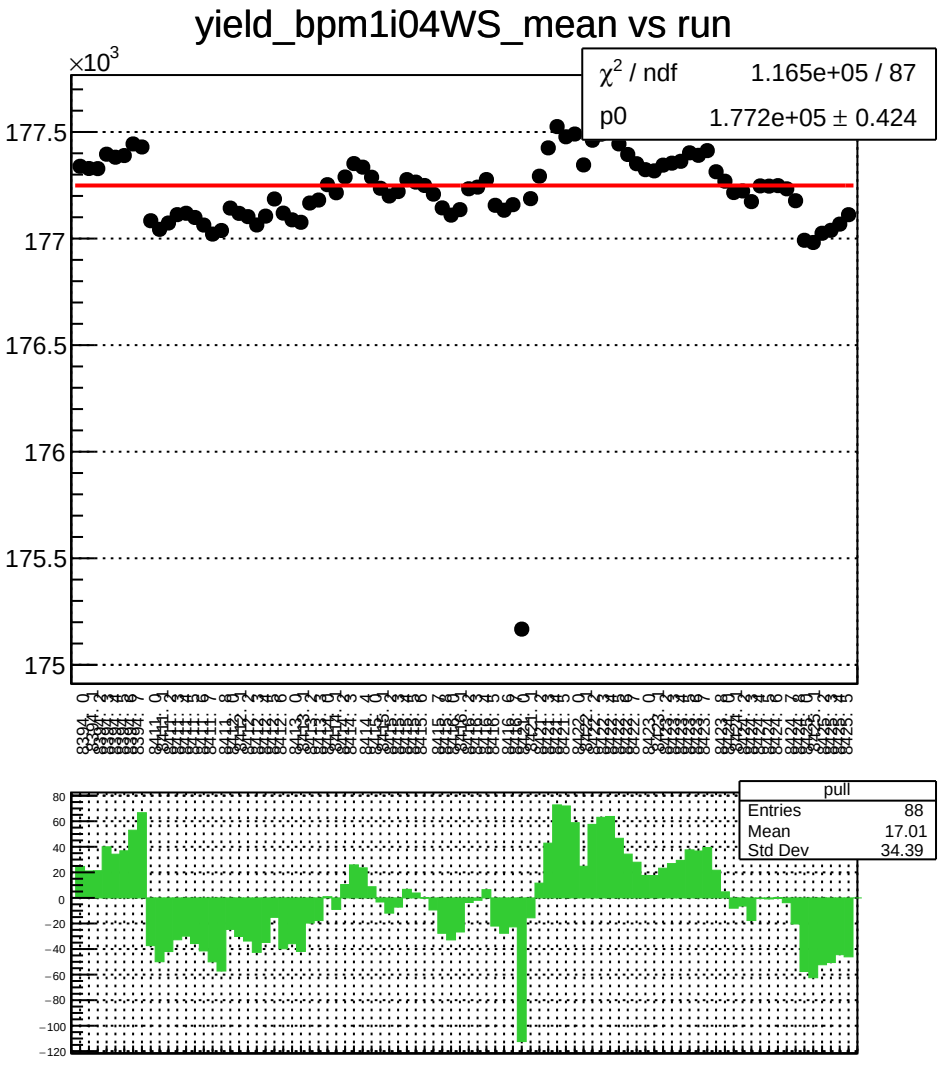

pull1D
Entries 88
Mean 0.3111
Std Dev 6.23
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

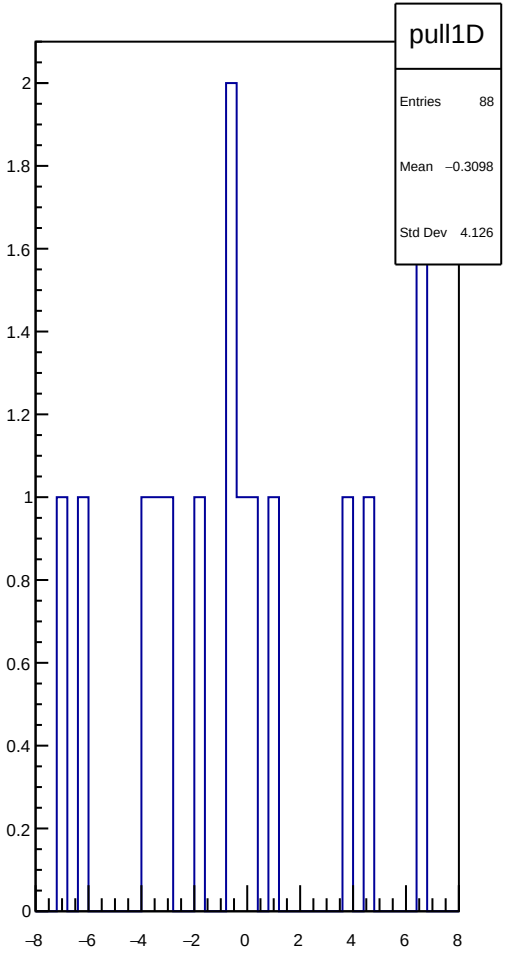

yield_bpm0i07WS_rms vs run
χ² / ndf 2.02e+04 / 87
p0 334.7 ± 0.2588
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

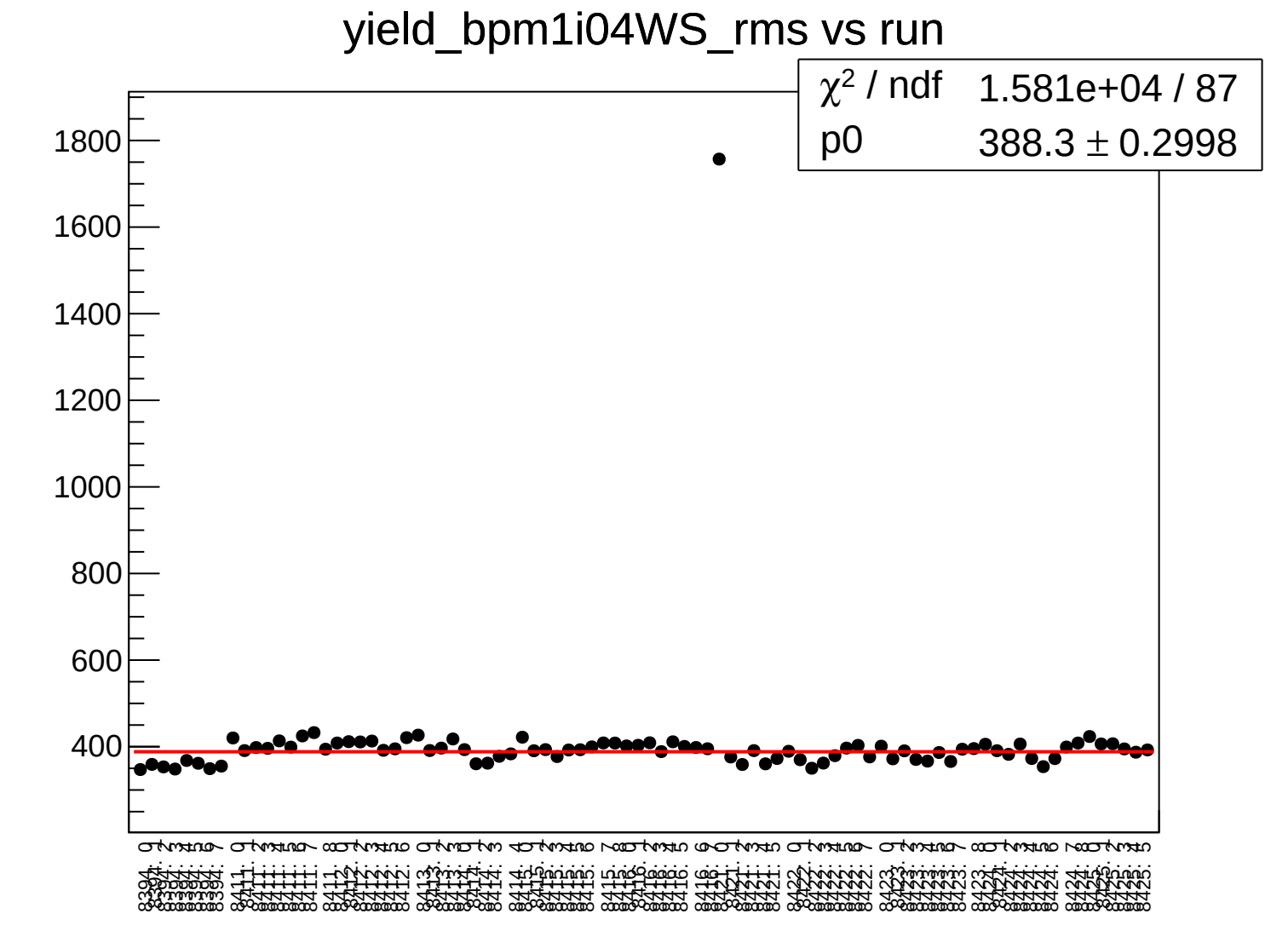

yield_bpm1i02WS_mean vs run
×10^3
χ^2 / ndf 8.207e+04 / 87
p0 1.749e+05 ± 0.3991
175.4
175.2
175
174.8
174.6
174.4
174.2
174
173.8
173.6
173.4
173.2
pull
Entries 88
Mean −48.23
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

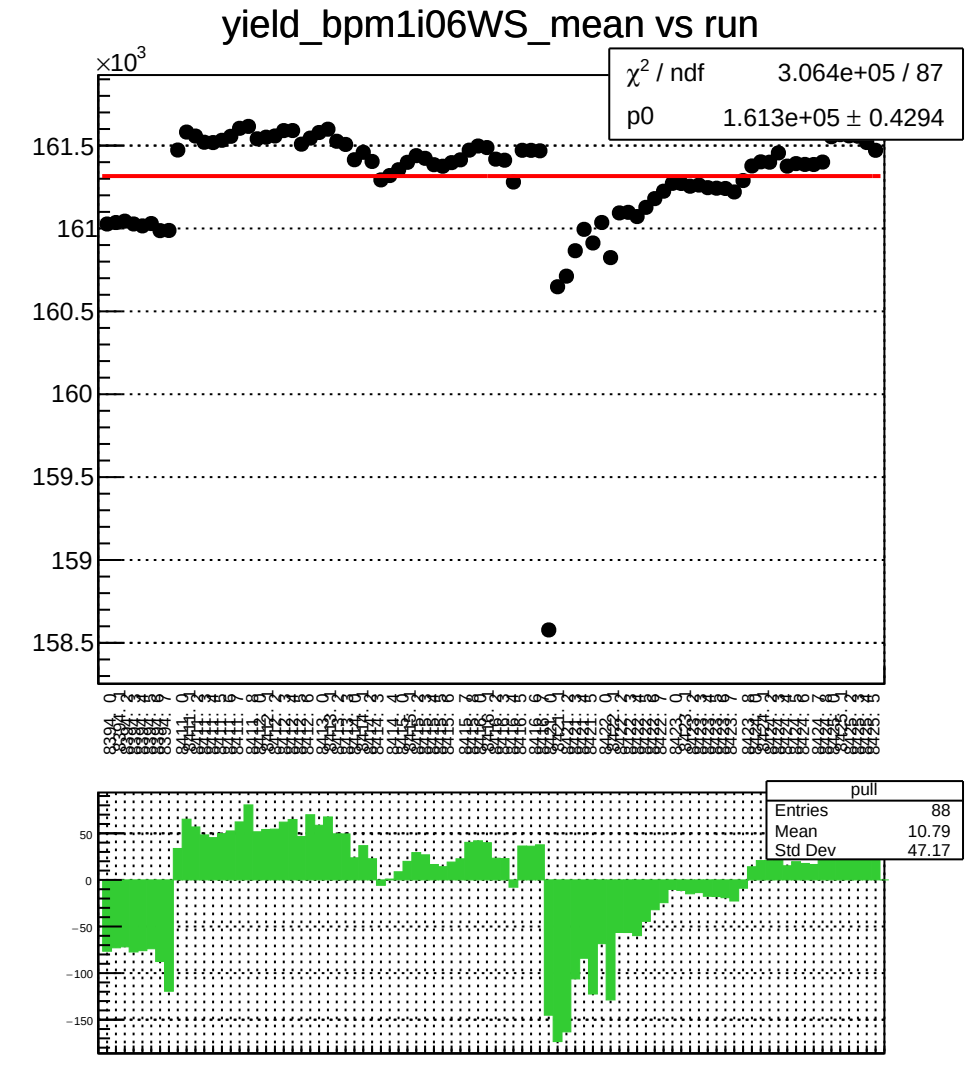

pull1D
Entries 88
Mean 1.011
Std Dev 4.436
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

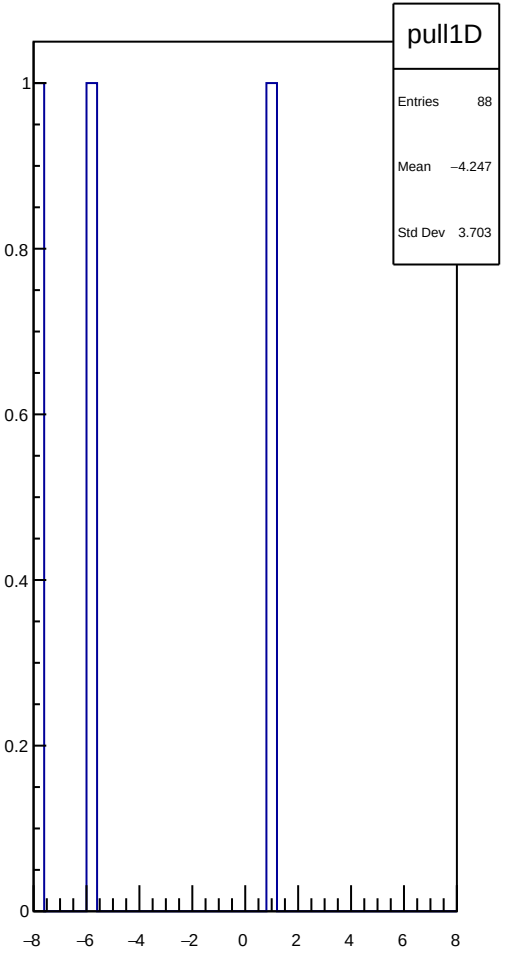

yield_bpm1i02WS_rms vs run
χ² / ndf 1.53e+04 / 87
p0 365.5 ± 0.2822
1800
1600
1400
1200
1000
800
600
400
200

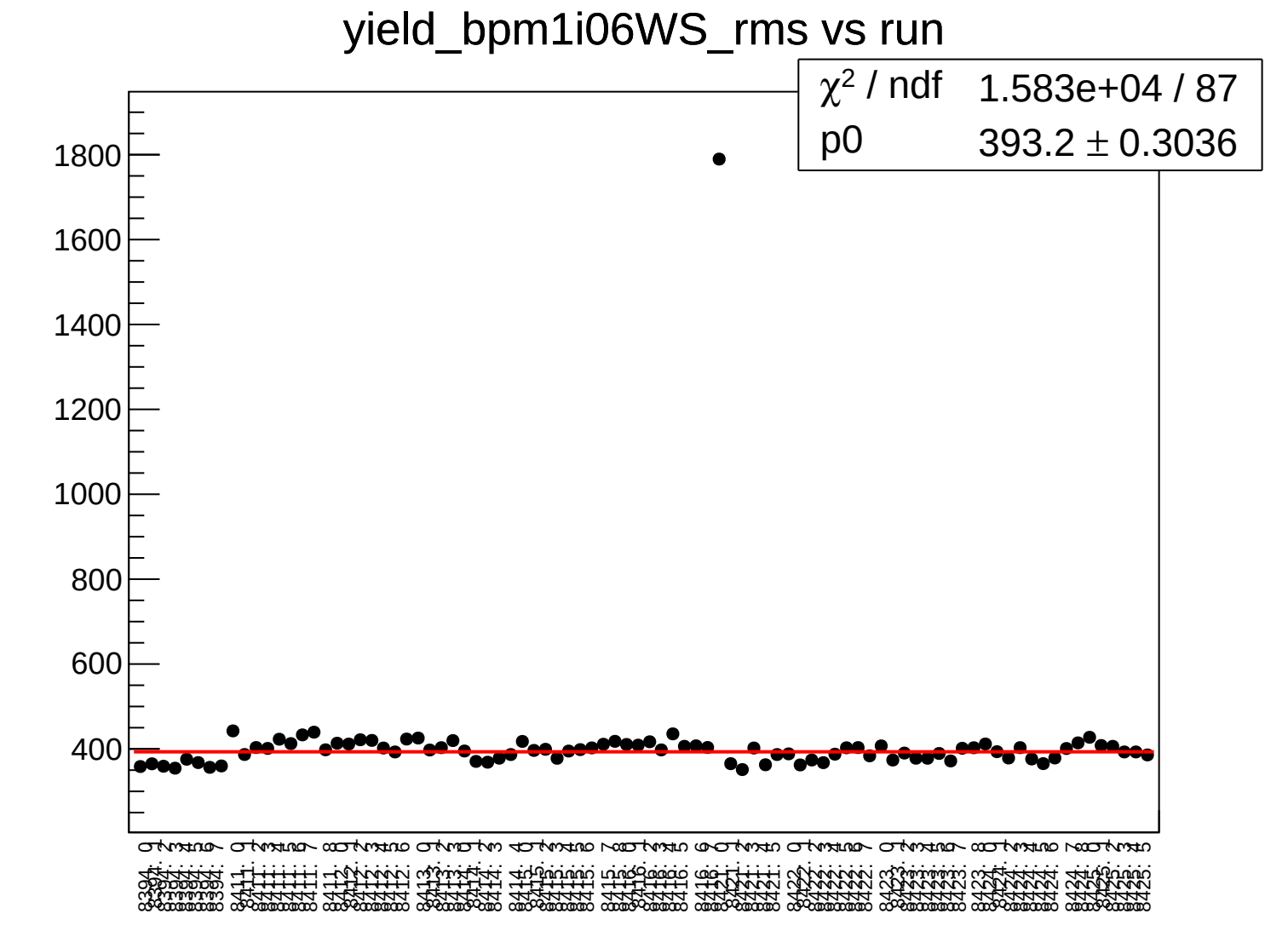

yield_bpm1i04WS_mean vs run
×10^3
χ^2 / ndf 1.165e+05 / 87
p0 1.772e+05 ± 0.424
177.5
177
176.5
176
175.5
175
pull
Entries 88
Mean 17.01
Std Dev 34.39
80
60
40
20
0
−20
−40
−60
−80
−100
−120

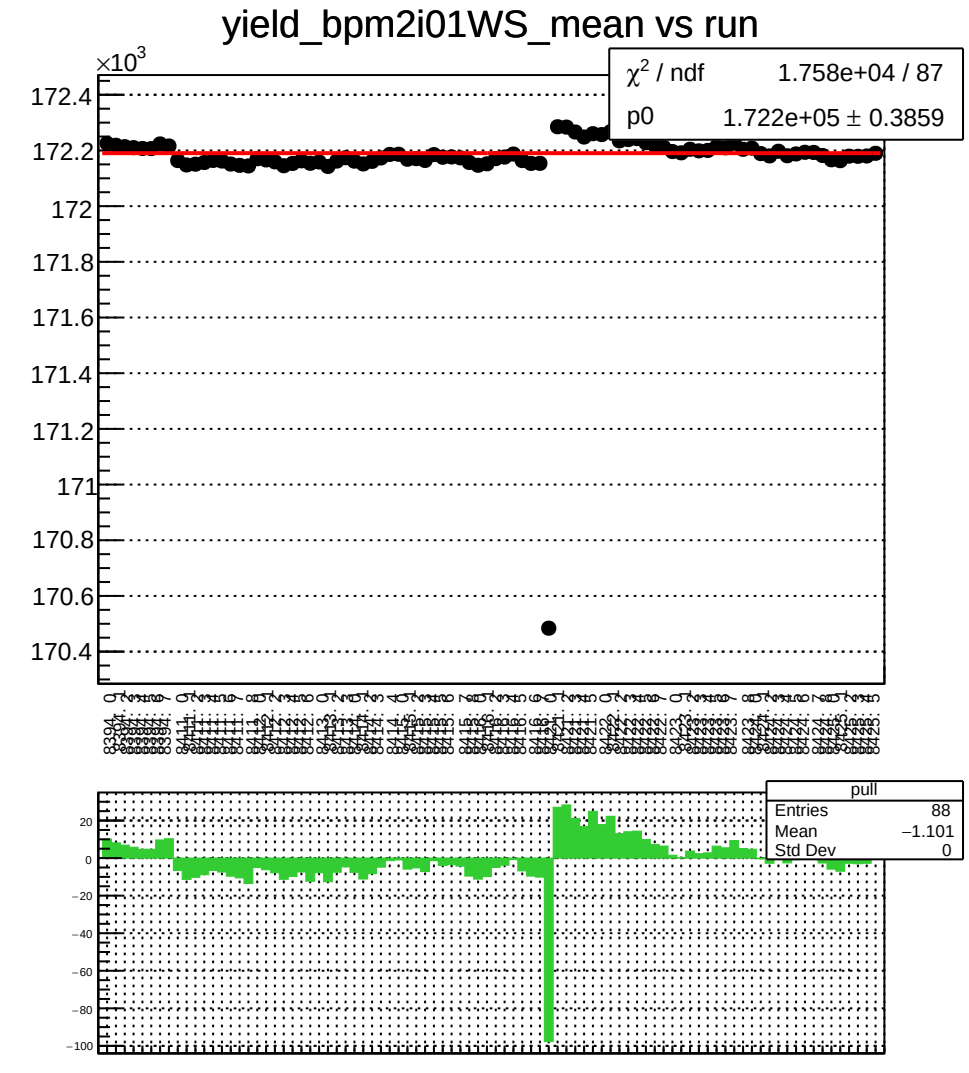

pull1D
Entries 88
Mean −0.3098
Std Dev 4.126
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

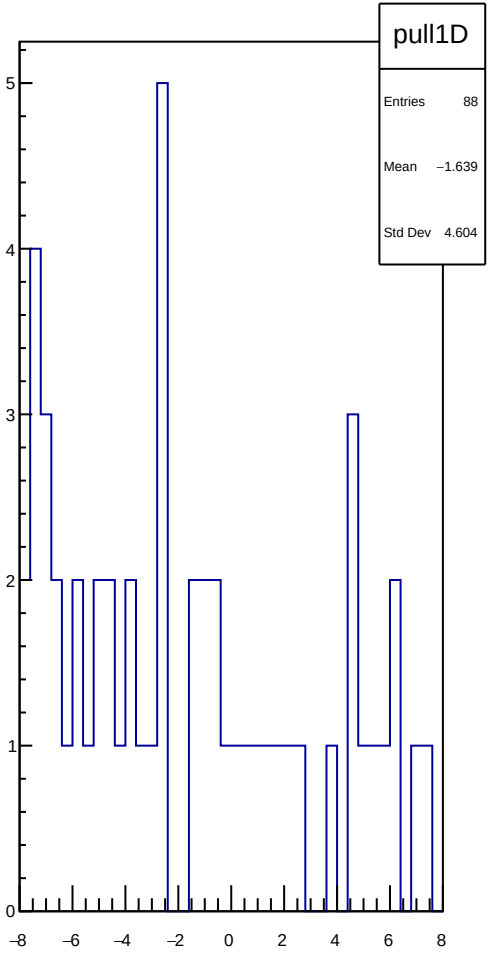

yield_bpm1i04WS_rms vs run
χ² / ndf 1.581e+04 / 87
p0 388.3 ± 0.2998
1800
1600
1400
1200
1000
800
600
400

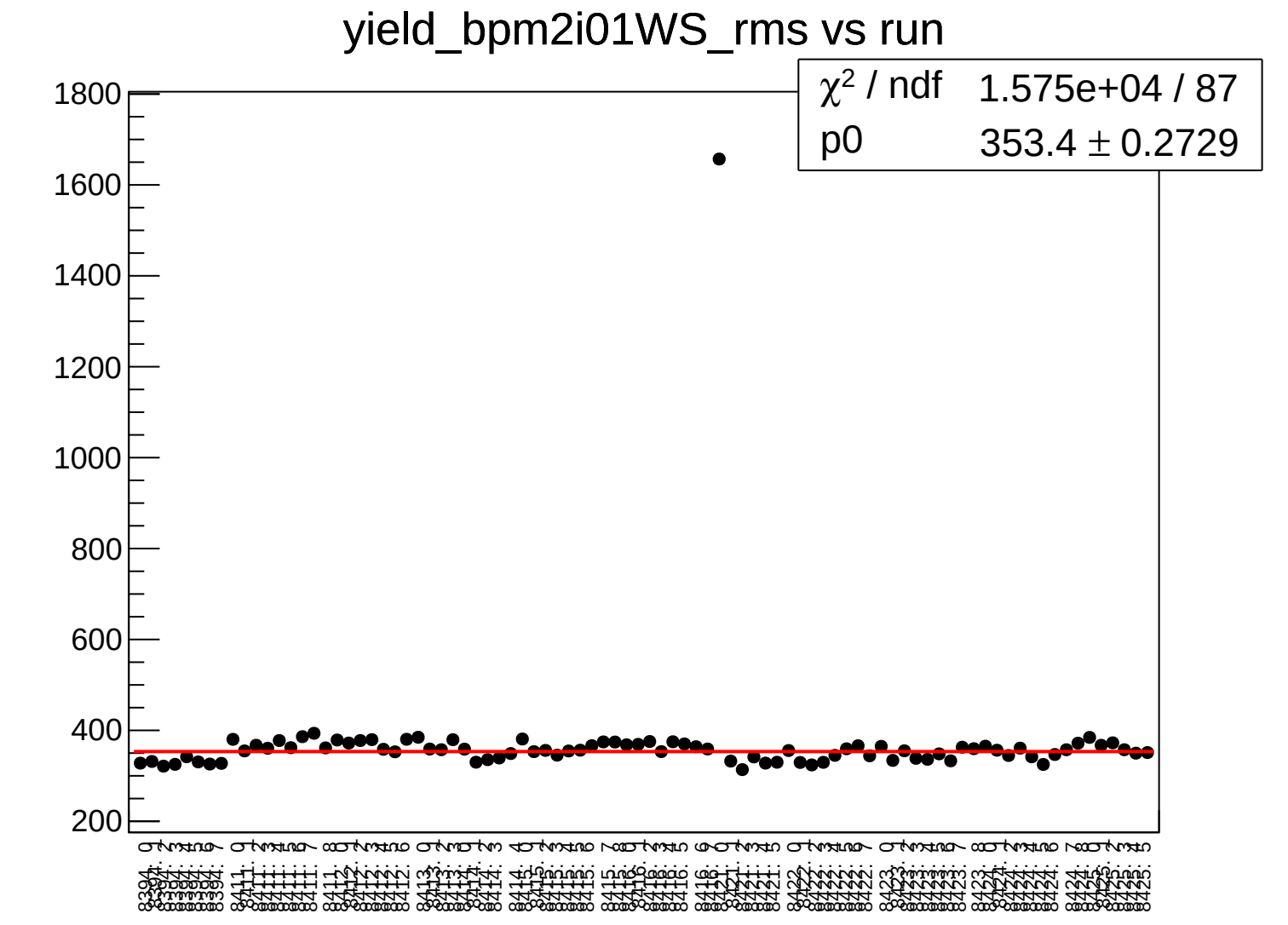

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 3.064e+05 / 87
p0 1.613e+05 ± 0.4294
161.5
161
160.5
160
159.5
159
158.5
pull
Entries 88
Mean 10.79
Std Dev 47.17
50
0
−50
−100
−150

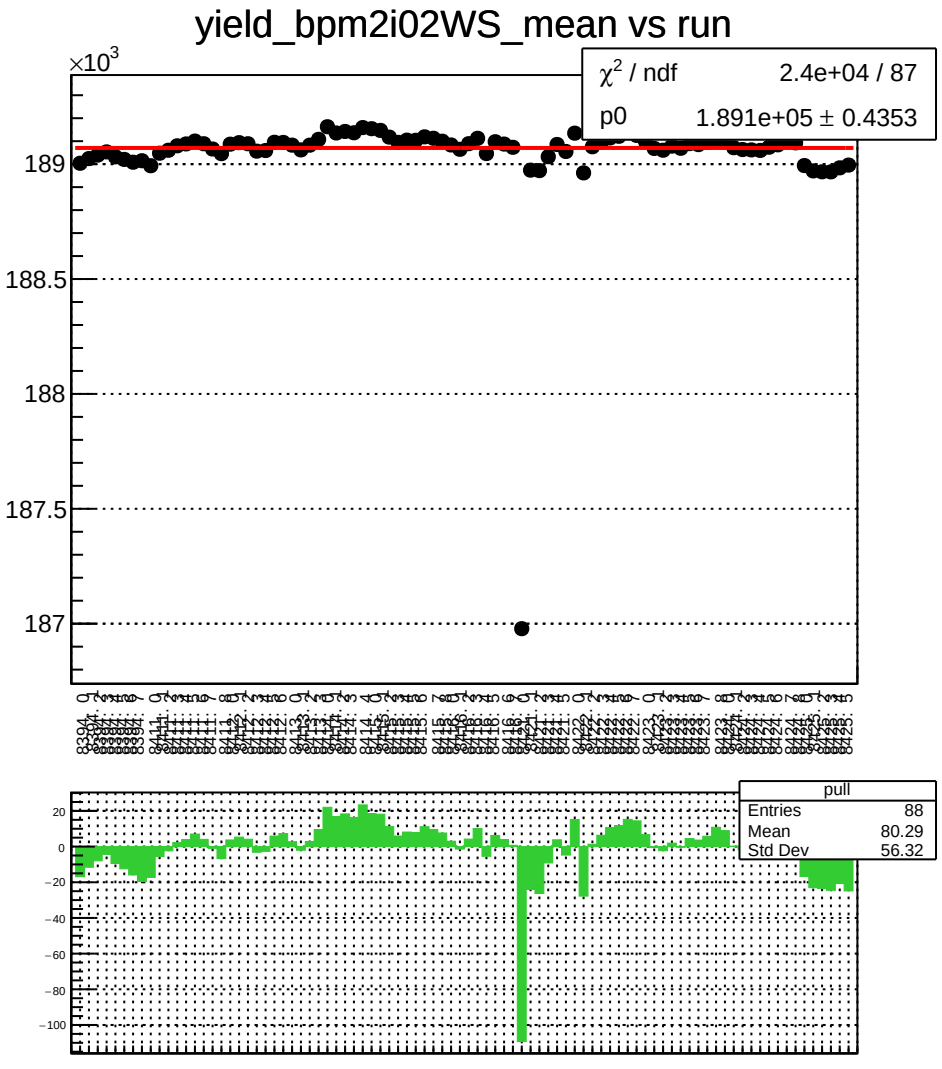

pull1D
Entries 88
Mean −4.247
Std Dev 3.703
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

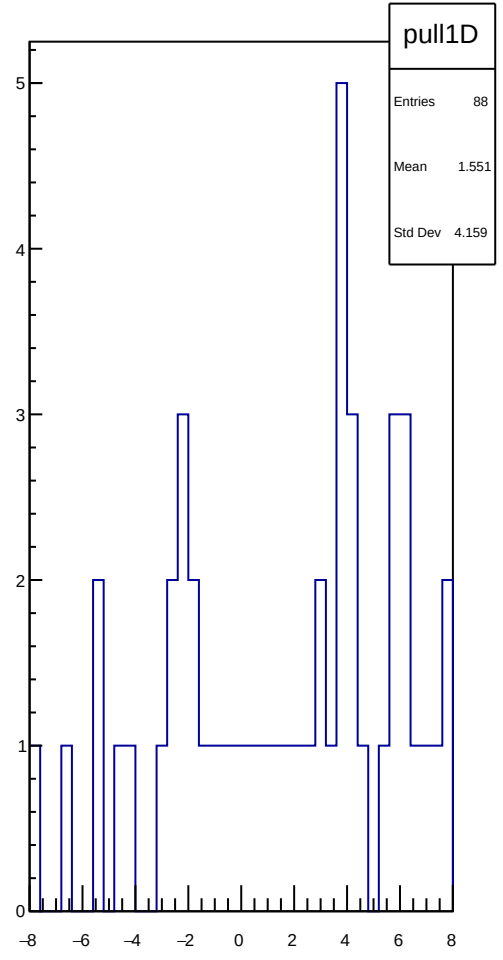

yield_bpm1i06WS_rms vs run
χ² / ndf 1.583e+04 / 87
p0 393.2 ± 0.3036
1800
1600
1400
1200
1000
800
600
400

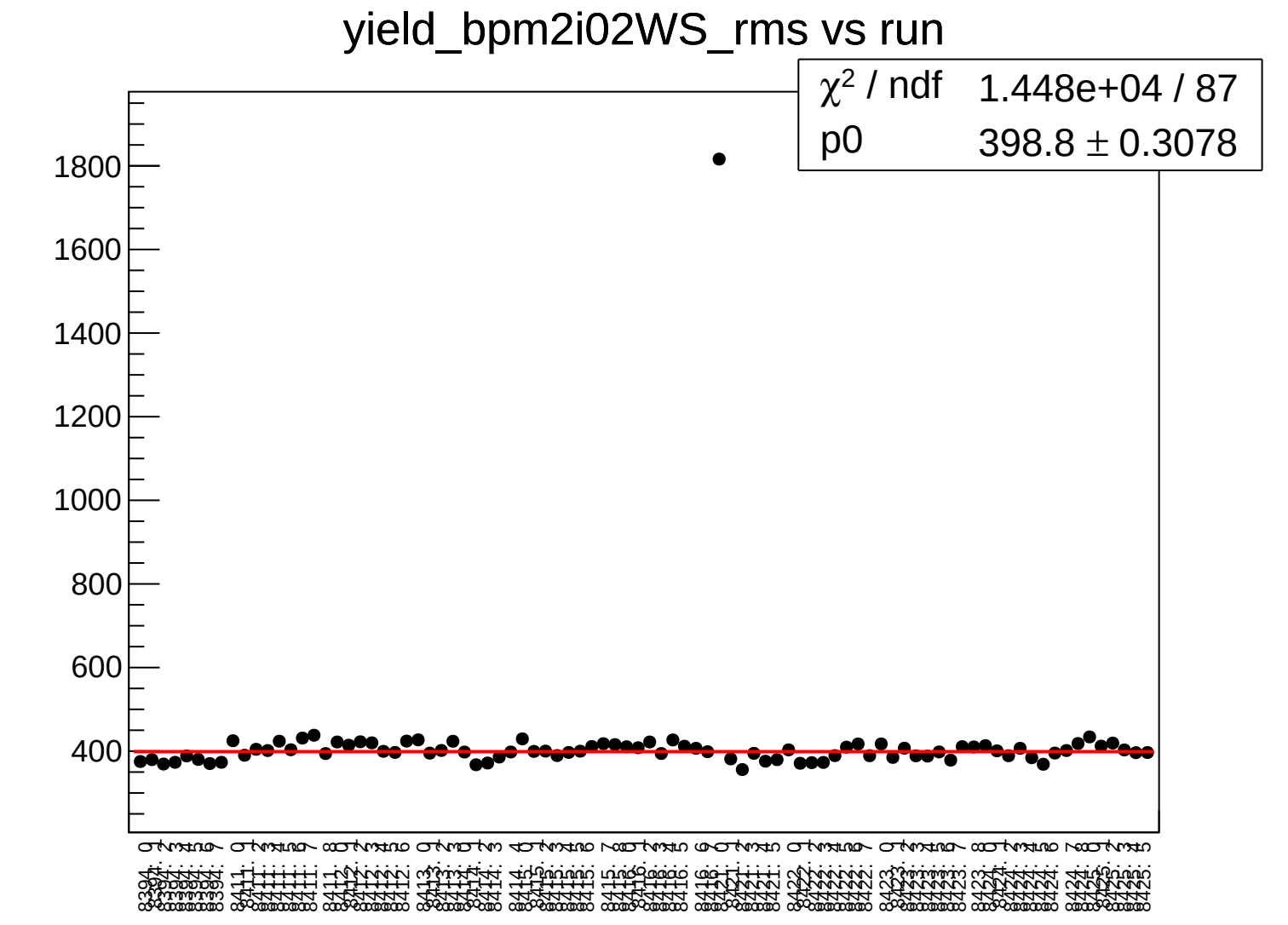

yield_bpm2i01WS_mean vs run
×10^3
χ^2 / ndf 1.758e+04 / 87
p0 1.722e+05 ± 0.3859
172.4
172.2
172
171.8
171.6
171.4
171.2
171
170.8
170.6
170.4
pull
Entries 88
Mean −1.101
Std Dev 0
20
0
−20
−40
−60
−80
−100

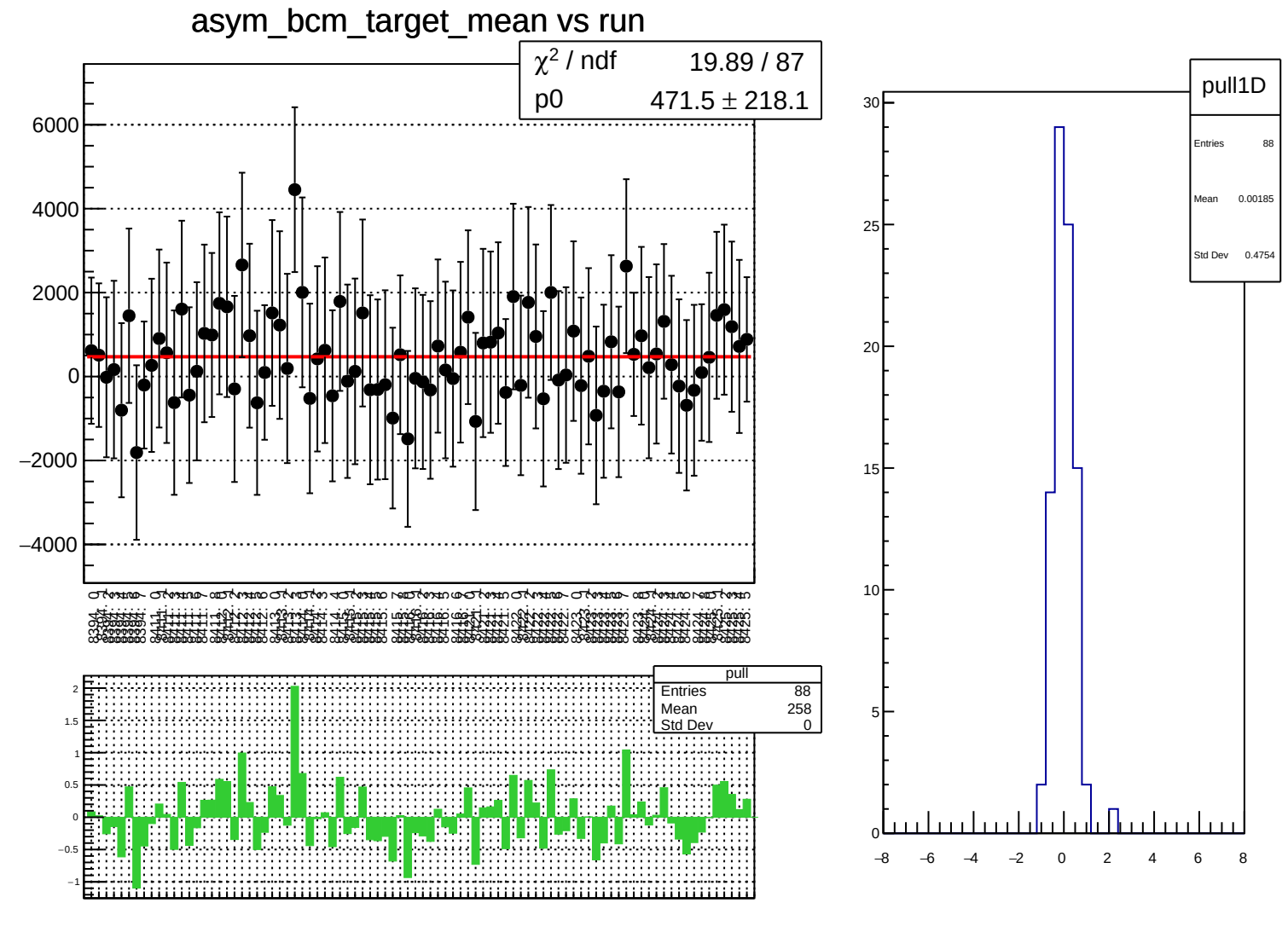

pull1D
Entries 88
Mean −1.639
Std Dev 4.604
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

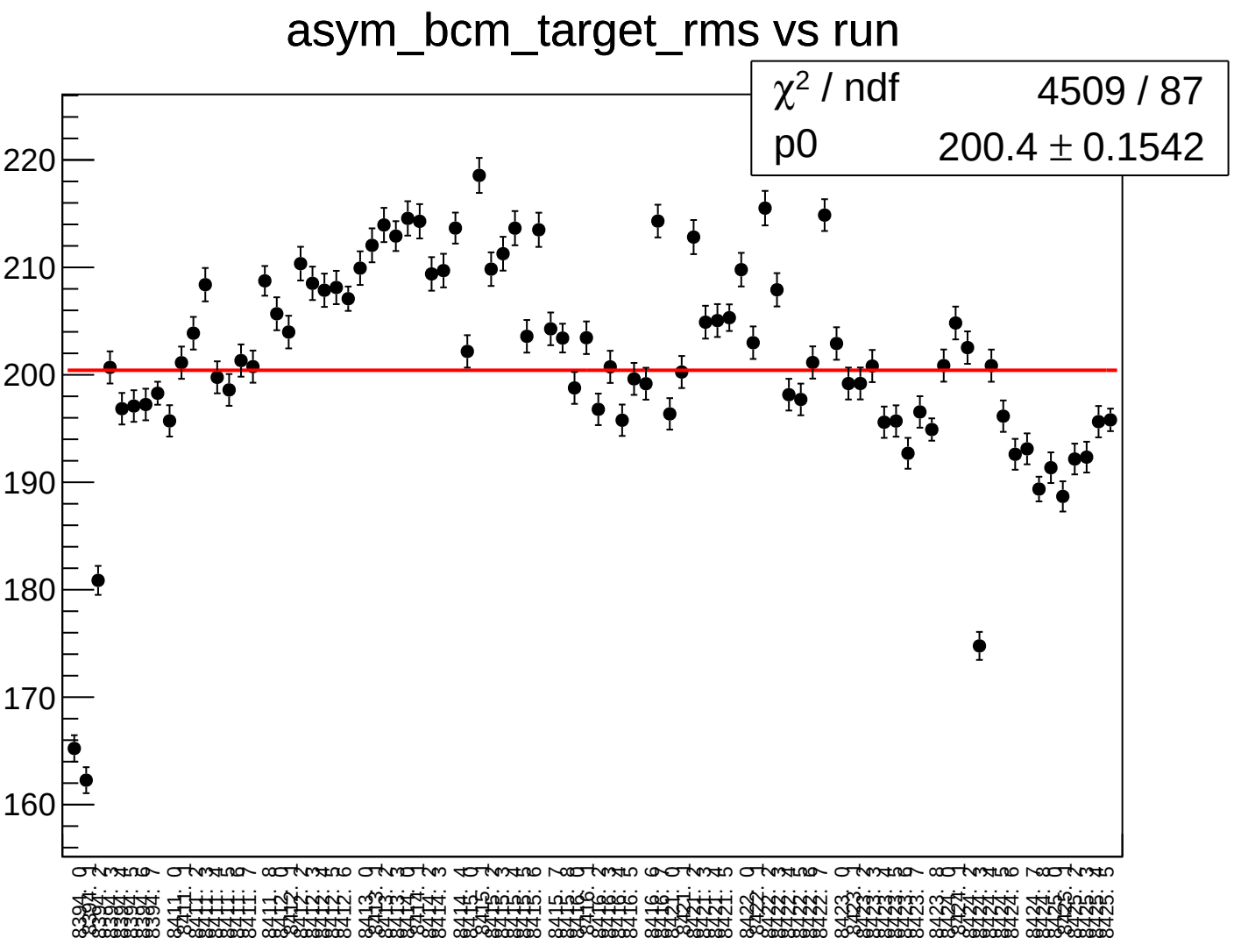

yield_bpm2i01WS_rms vs run
χ² / ndf 1.575e+04 / 87
p0 353.4 ± 0.2729
1800
1600
1400
1200
1000
800
600
400
200

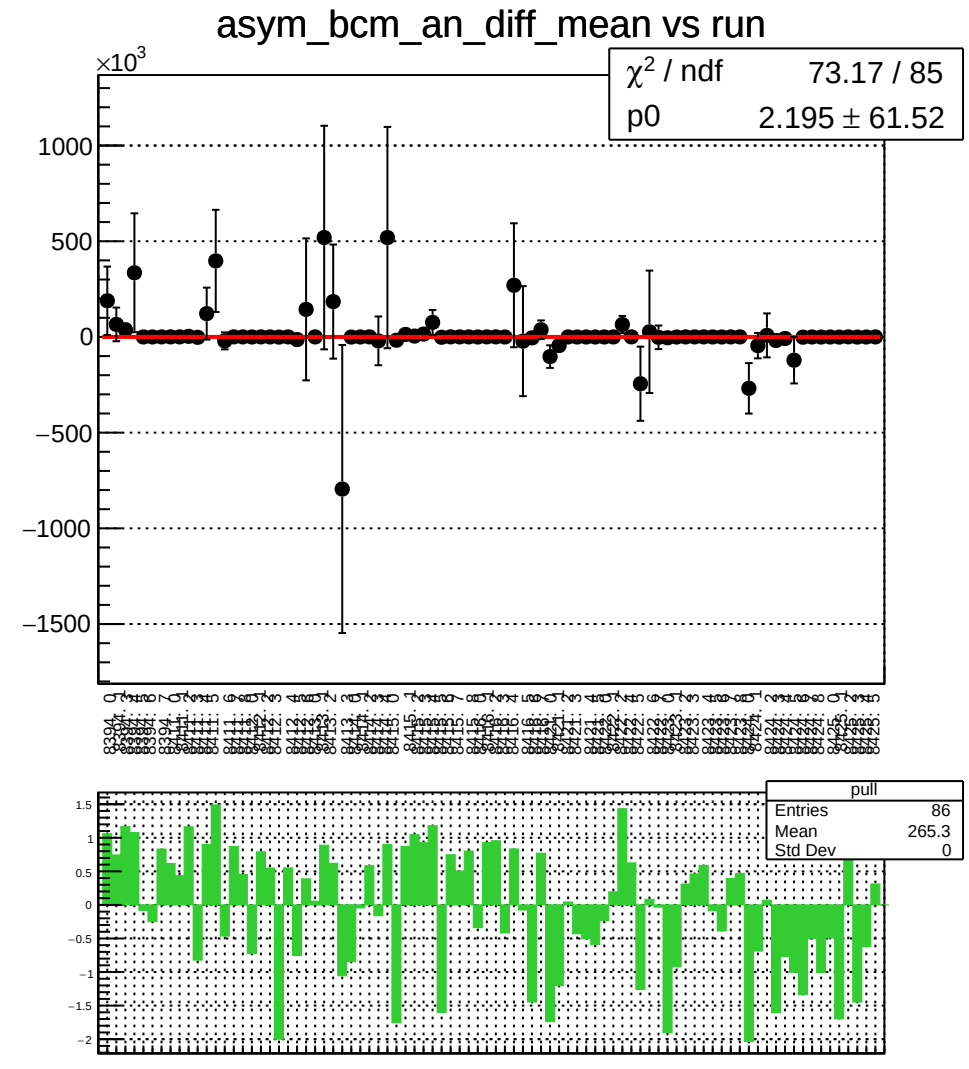

yield_bpm2i02WS_mean vs run
×10^3
χ^2 / ndf 2.4e+04 / 87
p0 1.891e+05 ± 0.4353
189
188.5
188
187.5
187
pull
Entries 88
Mean 80.29
Std Dev 56.32
20
0
−20
−40
−60
−80
−100

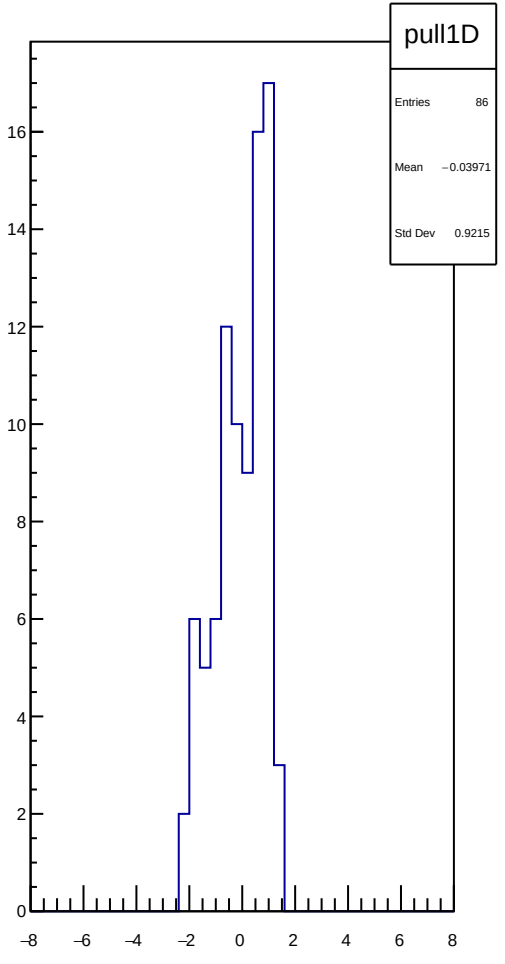

pull1D
Entries 88
Mean 1.551
Std Dev 4.159
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

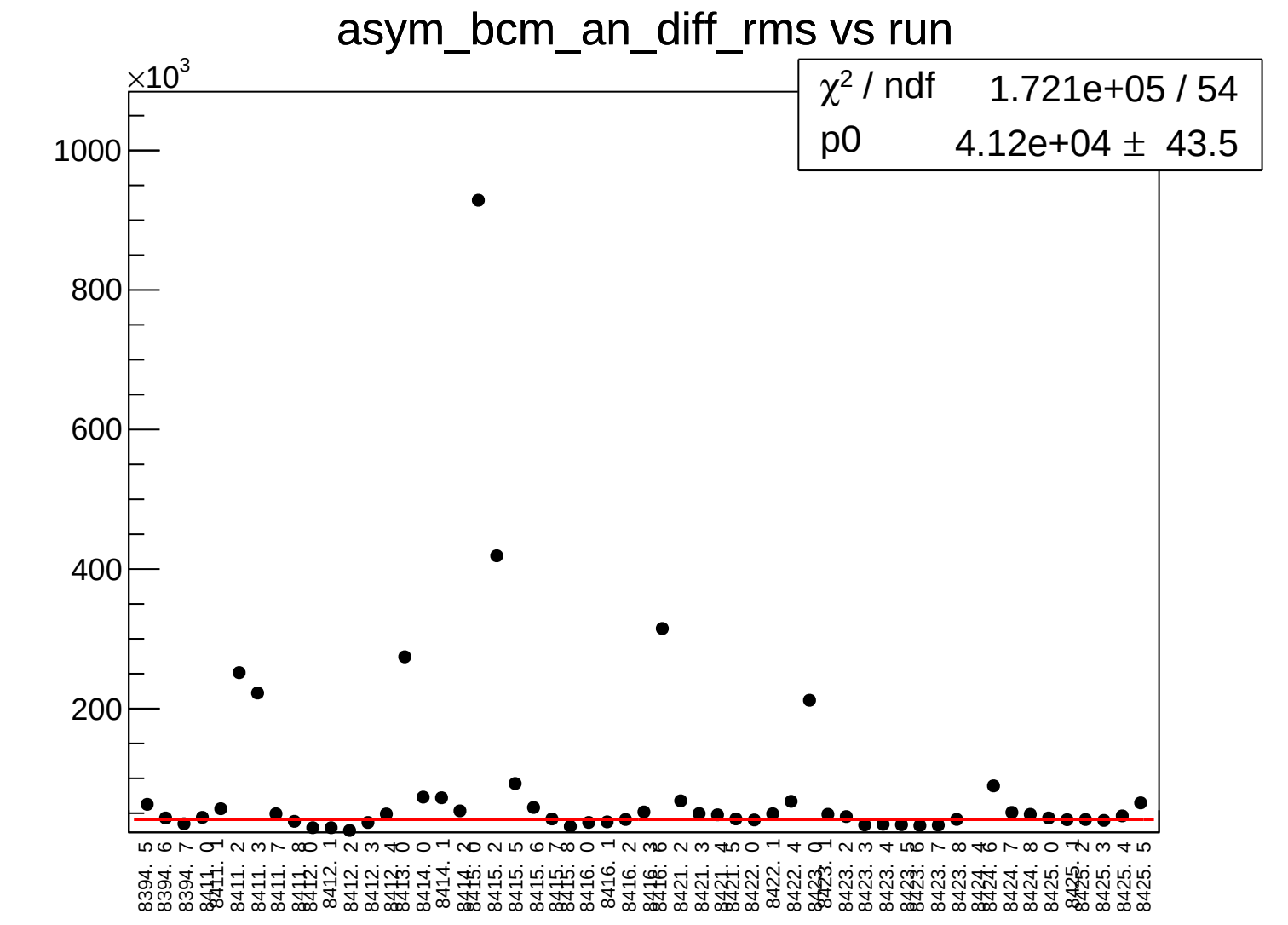

yield_bpm2i02WS_rms vs run
χ² / ndf 1.448e+04 / 87
p0 398.8 ± 0.3078
1800
1600
1400
1200
1000
800
600
400

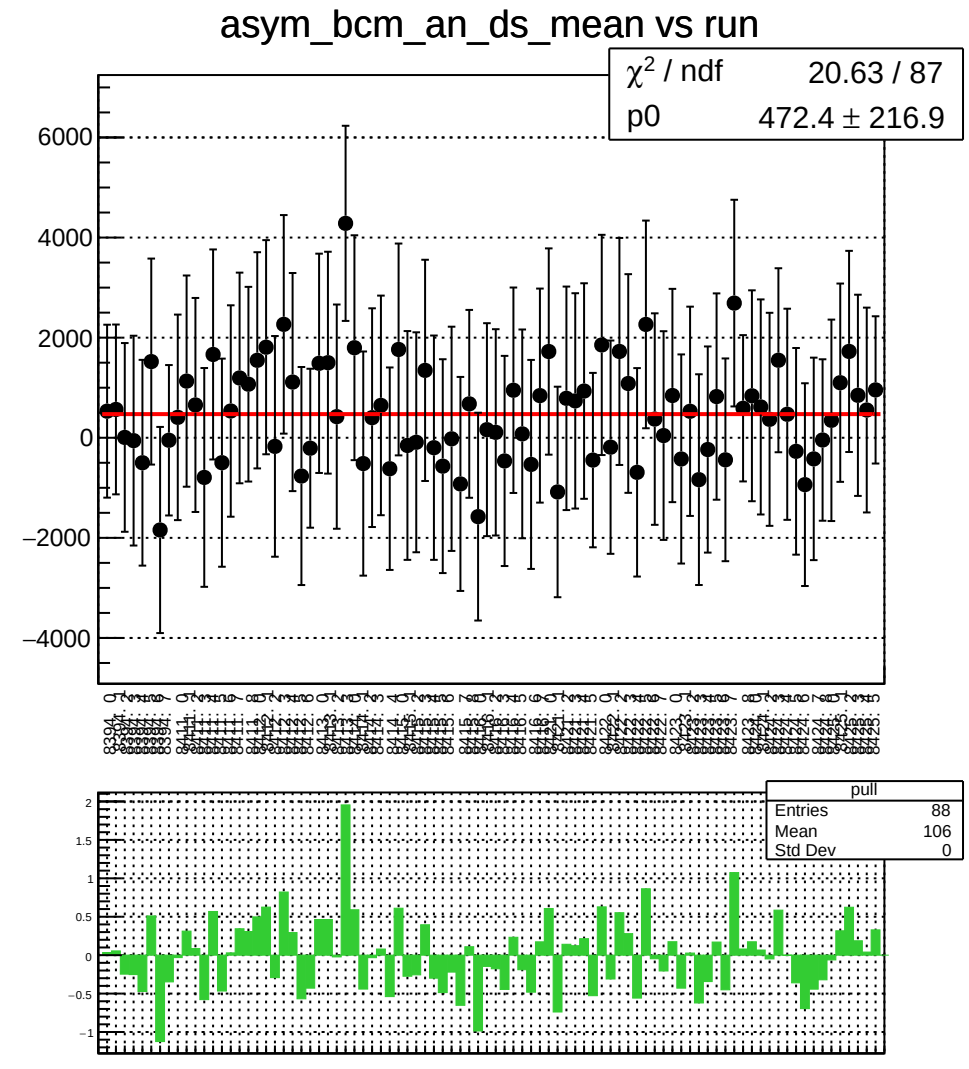

asym_bcm_target_mean vs run
χ² / ndf 19.89 / 87
p0 471.5 ± 218.1
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 258
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.00185
Std Dev 0.4754
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

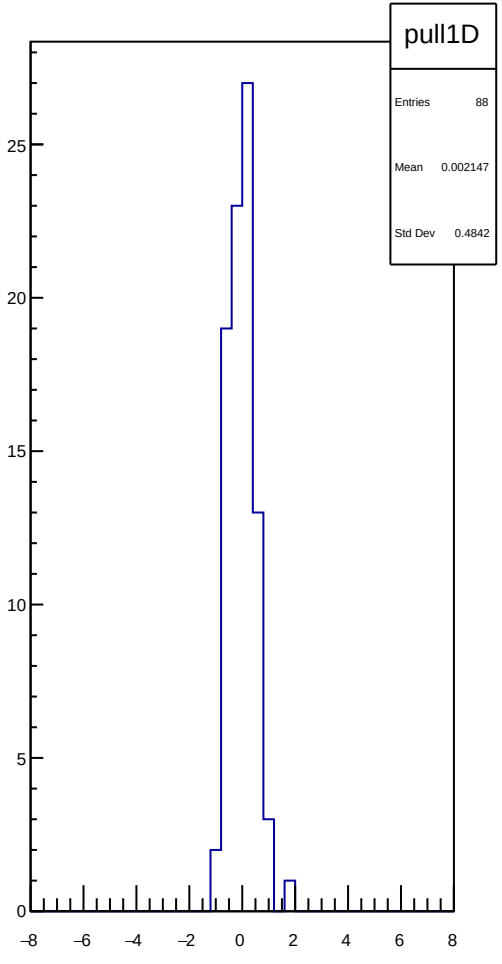

asym_bcm_target_rms vs run
χ² / ndf 4509 / 87
p0 200.4 ± 0.1542
220
210
200
190
180
170
160

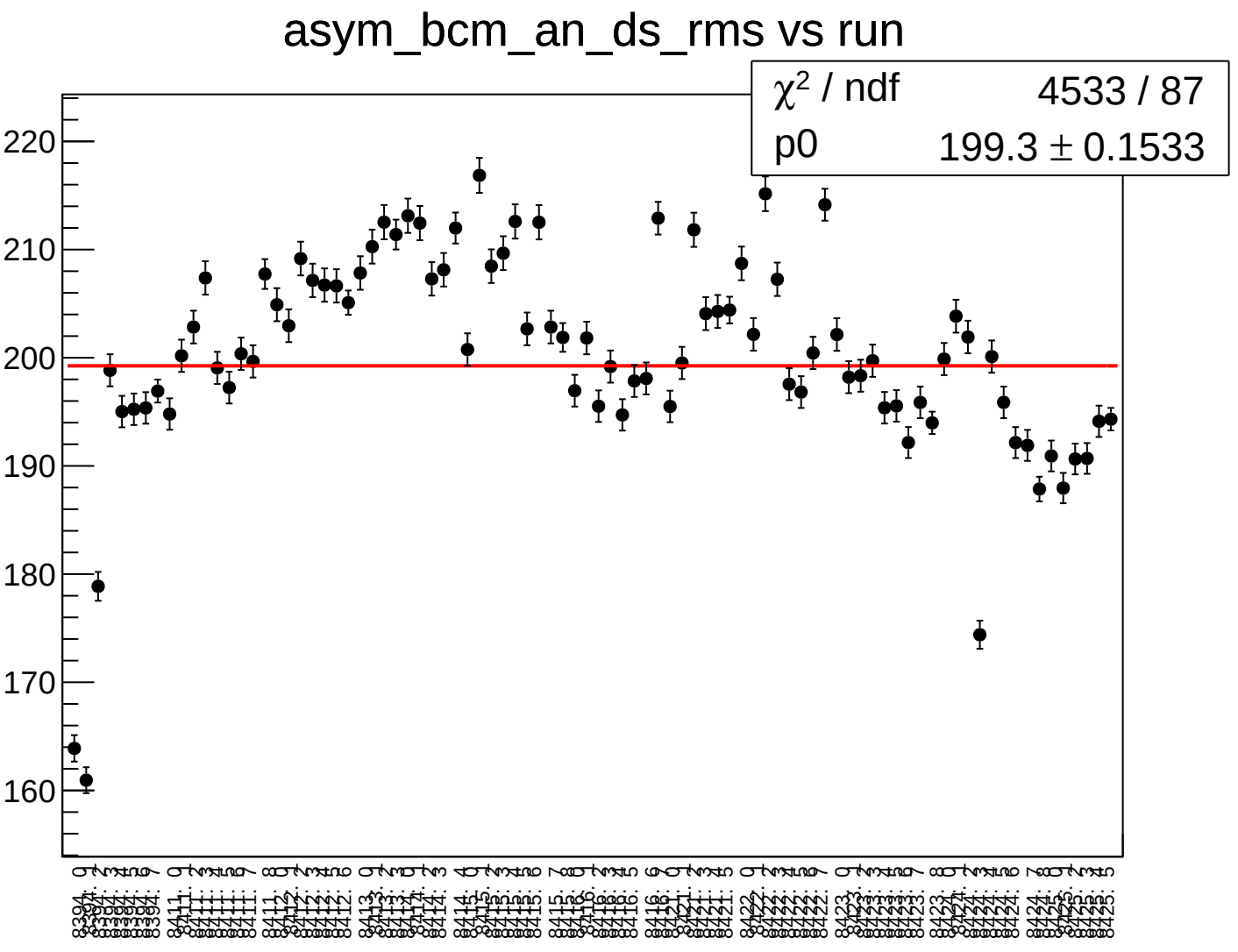

asym_bcm_an_diff_mean vs run
×10^3
χ^2 / ndf 73.17 / 85
p0 2.195 ± 61.52
1000
500
0
−500
−1000
−1500
pull
Entries 86
Mean 265.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

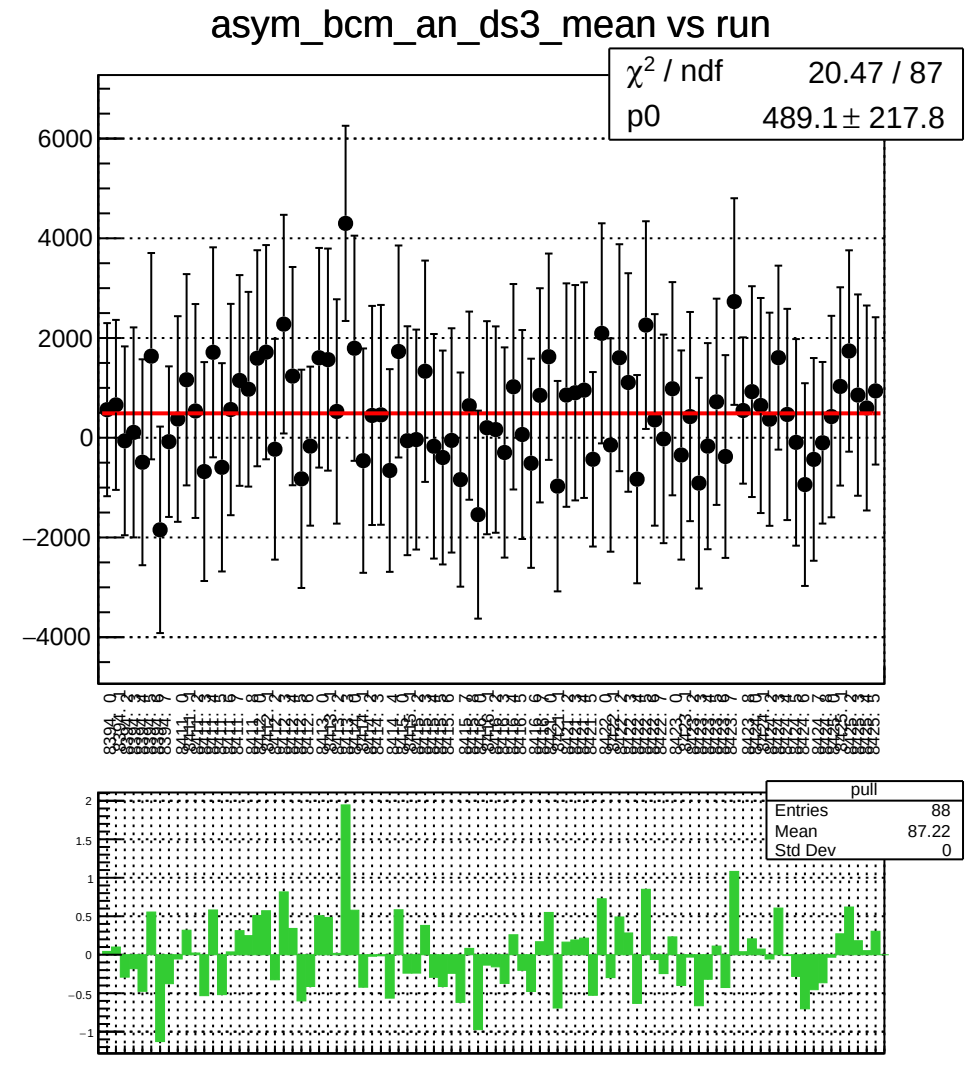

pull1D
Entries 86
Mean −0.03971
Std Dev 0.9215
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

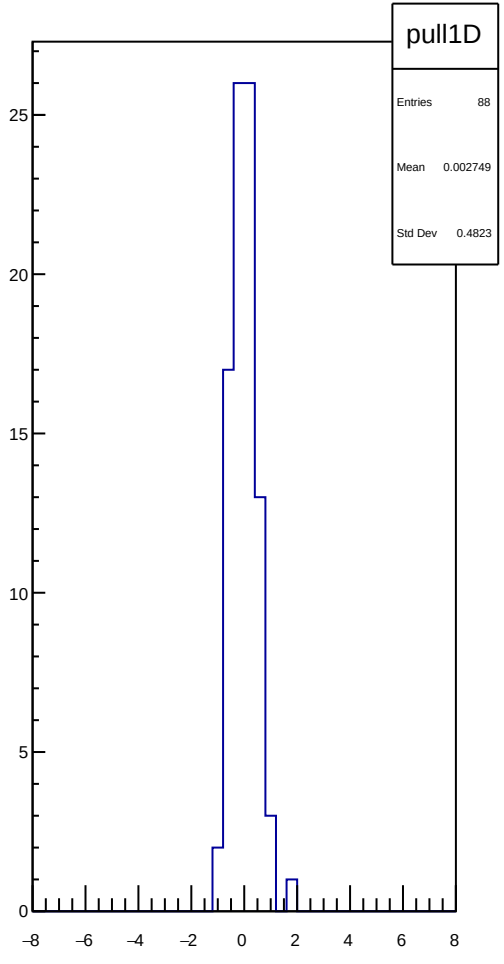

asym_bcm_an_diff_rms vs run
×10^3
χ² / ndf 1.721e+05 / 54
p0 4.12e+04 ± 43.5
1000
800
600
400
200
8394. 5
8394. 6
8394. 7
8411. 1
8411. 2
8411. 3
8411. 7
8411. 8
8412. 0
8412. 1
8412. 2
8412. 3
8412. 4
8413. 0
8414. 0
8414. 1
8414. 2
8415. 0
8415. 2
8415. 5
8415. 6
8415. 7
8415. 8
8416. 0
8416. 1
8416. 2
8416. 3
8421. 2
8421. 3
8421. 4
8421. 5
8422. 0
8422. 1
8422. 4
8423. 1
8423. 2
8423. 3
8423. 4
8423. 5
8423. 6
8423. 7
8423. 8
8424. 4
8424. 6
8424. 7
8424. 8
8425. 0
8425. 1
8425. 2
8425. 3
8425. 4
8425. 5

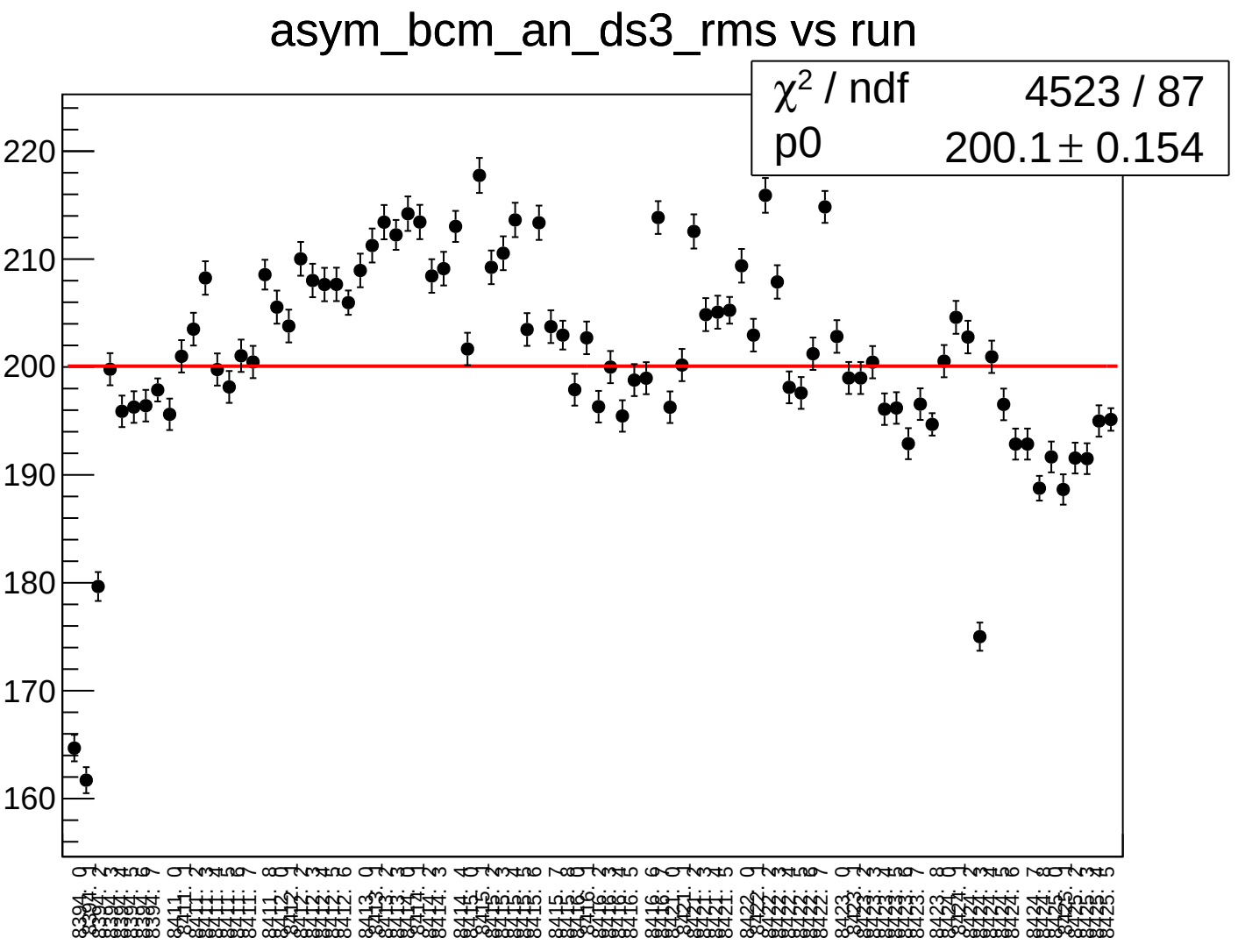

asym_bcm_an_ds_mean vs run
χ² / ndf 20.63 / 87
p0 472.4 ± 216.9
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 106
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

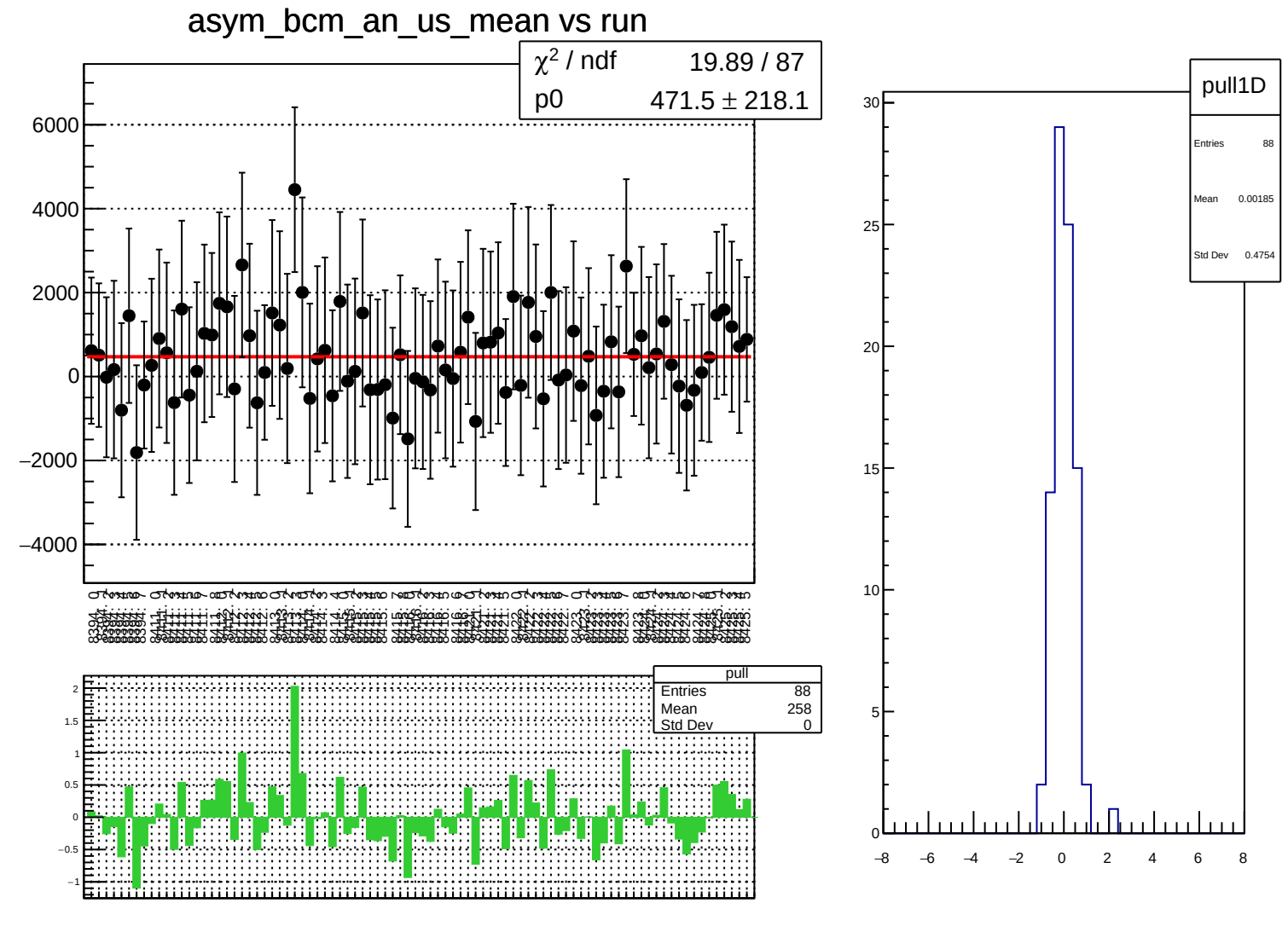

pull1D
Entries 88
Mean 0.002147
Std Dev 0.4842
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

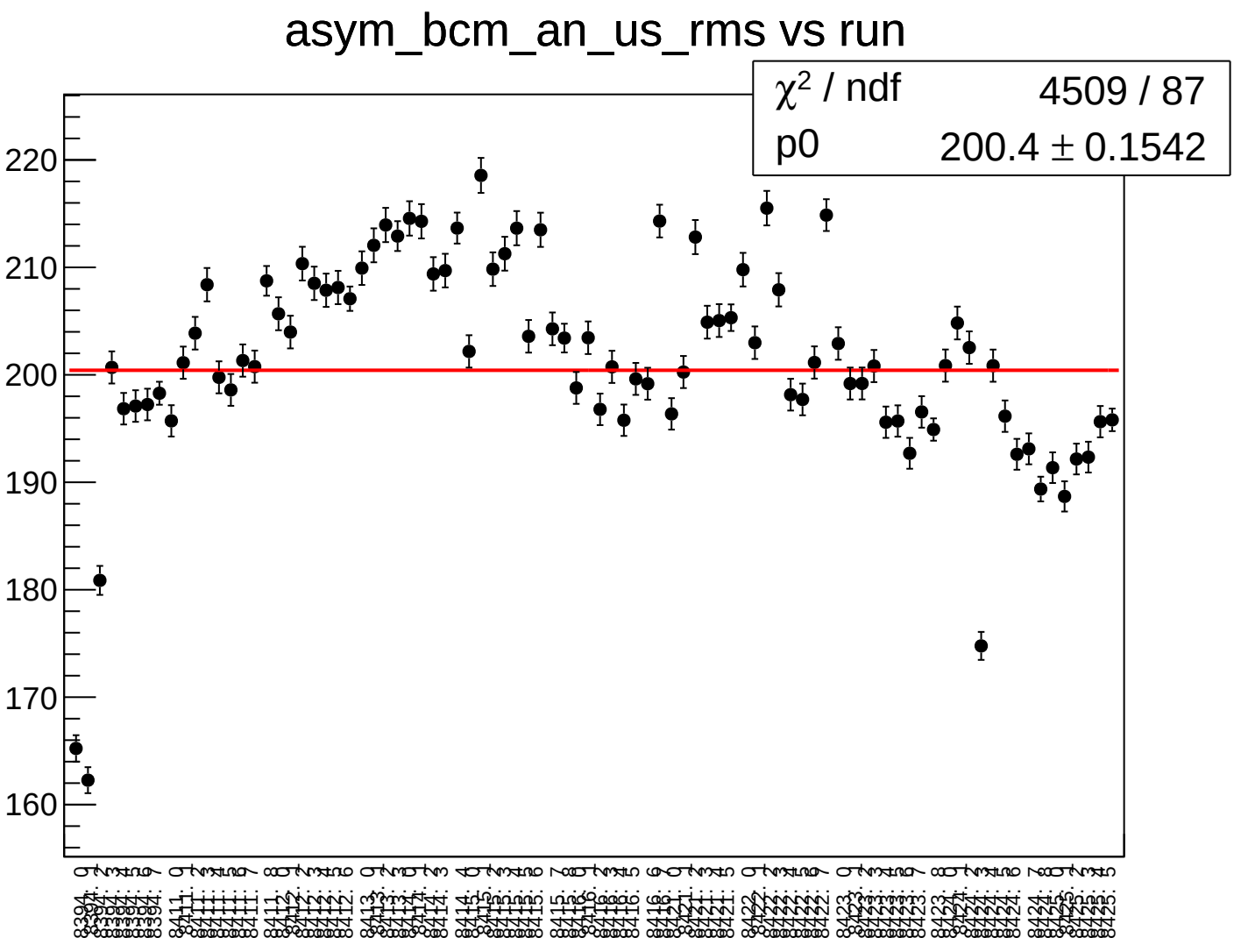

asym_bcm_an_ds_rms vs run
χ² / ndf 4533 / 87
p0 199.3 ± 0.1533
220
210
200
190
180
170
160

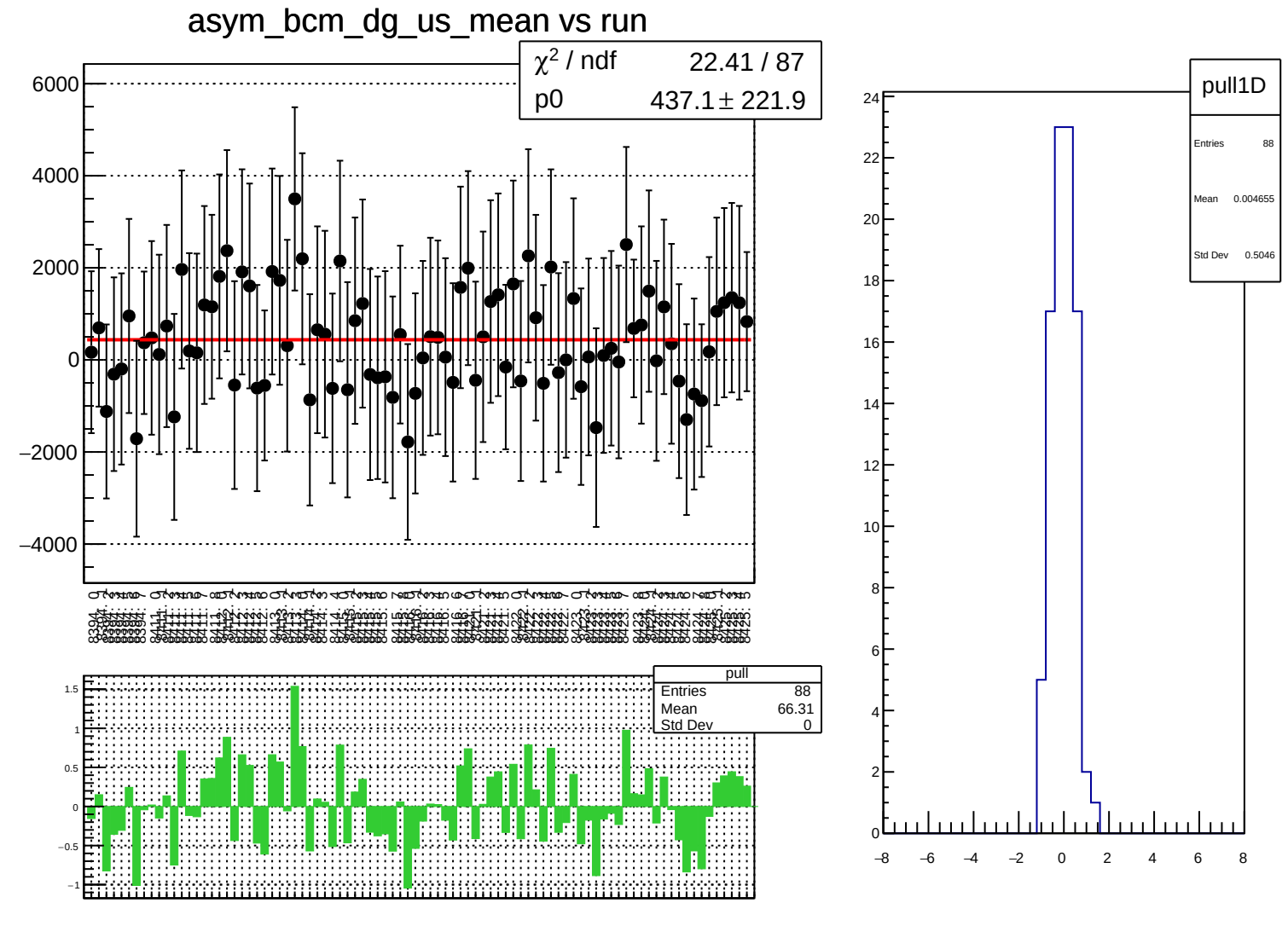

asym_bcm_an_ds3_mean vs run
χ² / ndf 20.47 / 87
p0 489.1 ± 217.8
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 87.22
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

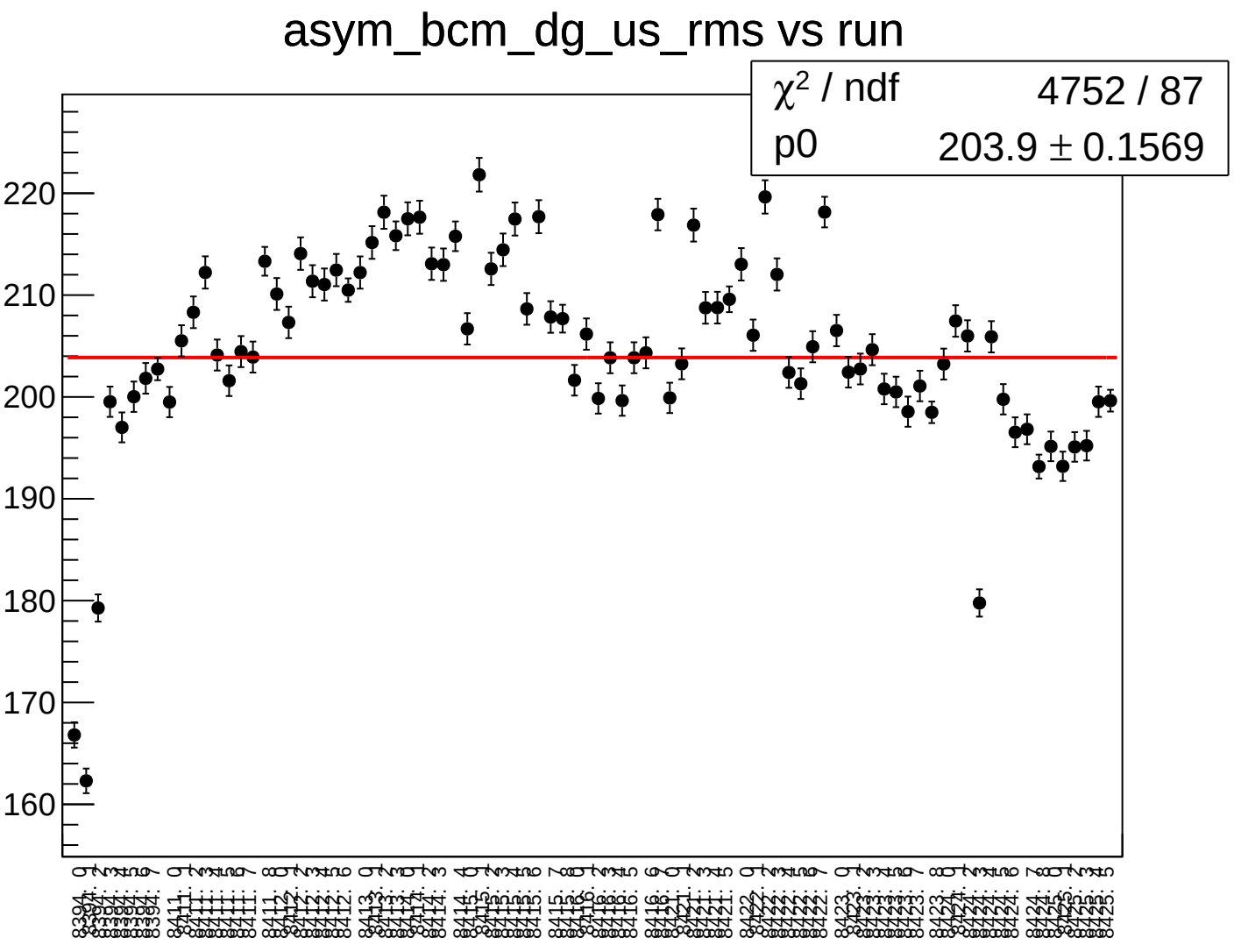

pull1D
Entries 88
Mean 0.002749
Std Dev 0.4823
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

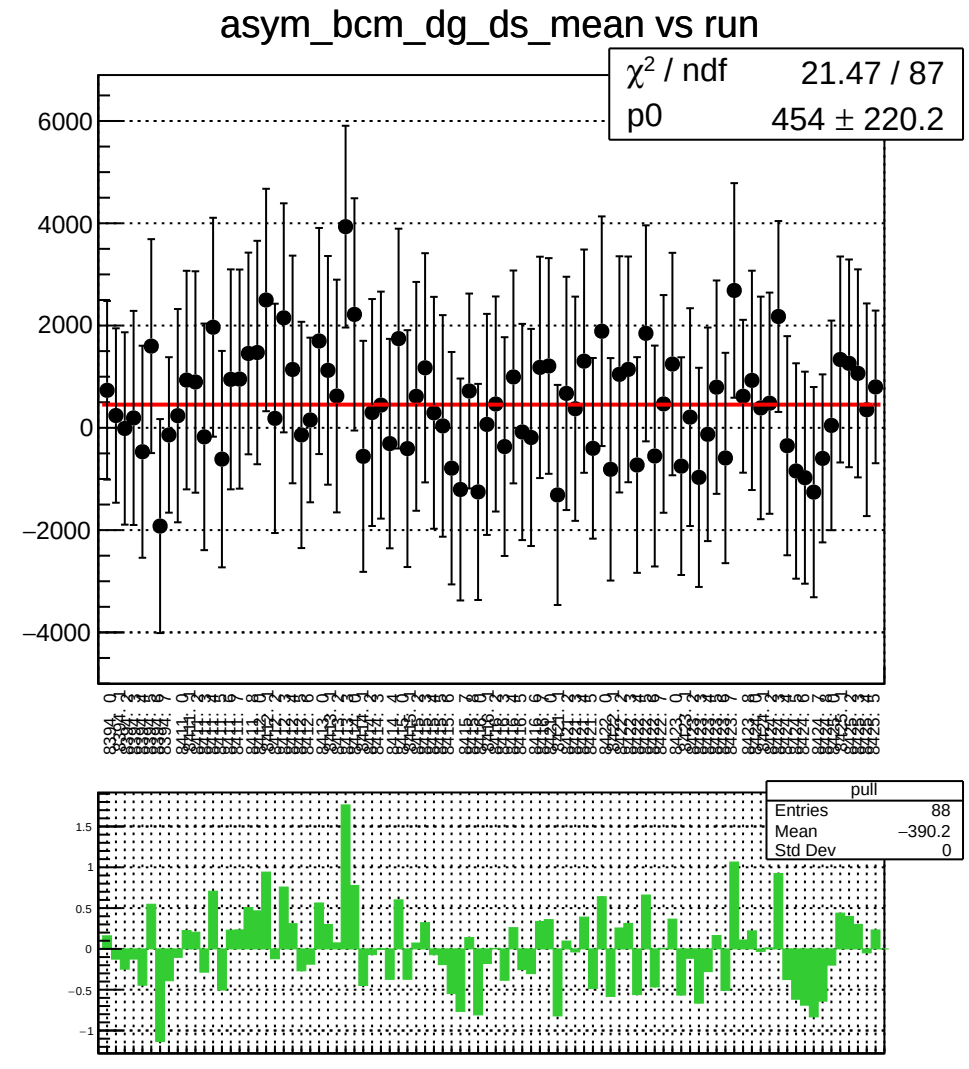

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 4523 / 87
p0 200.1 ± 0.154
220
210
200
190
180
170
160

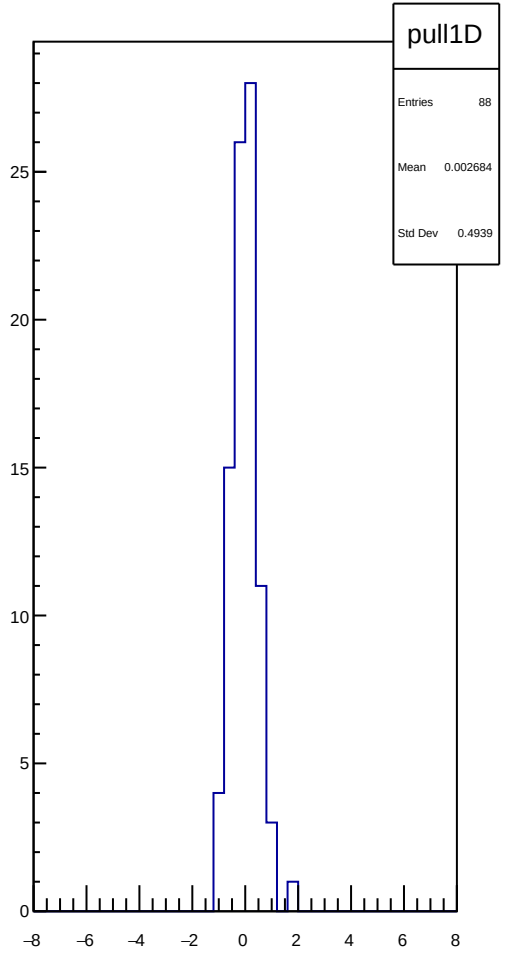

asym_bcm_an_us_mean vs run
χ² / ndf 19.89 / 87
p0 471.5 ± 218.1
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 258
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.00185
Std Dev 0.4754
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

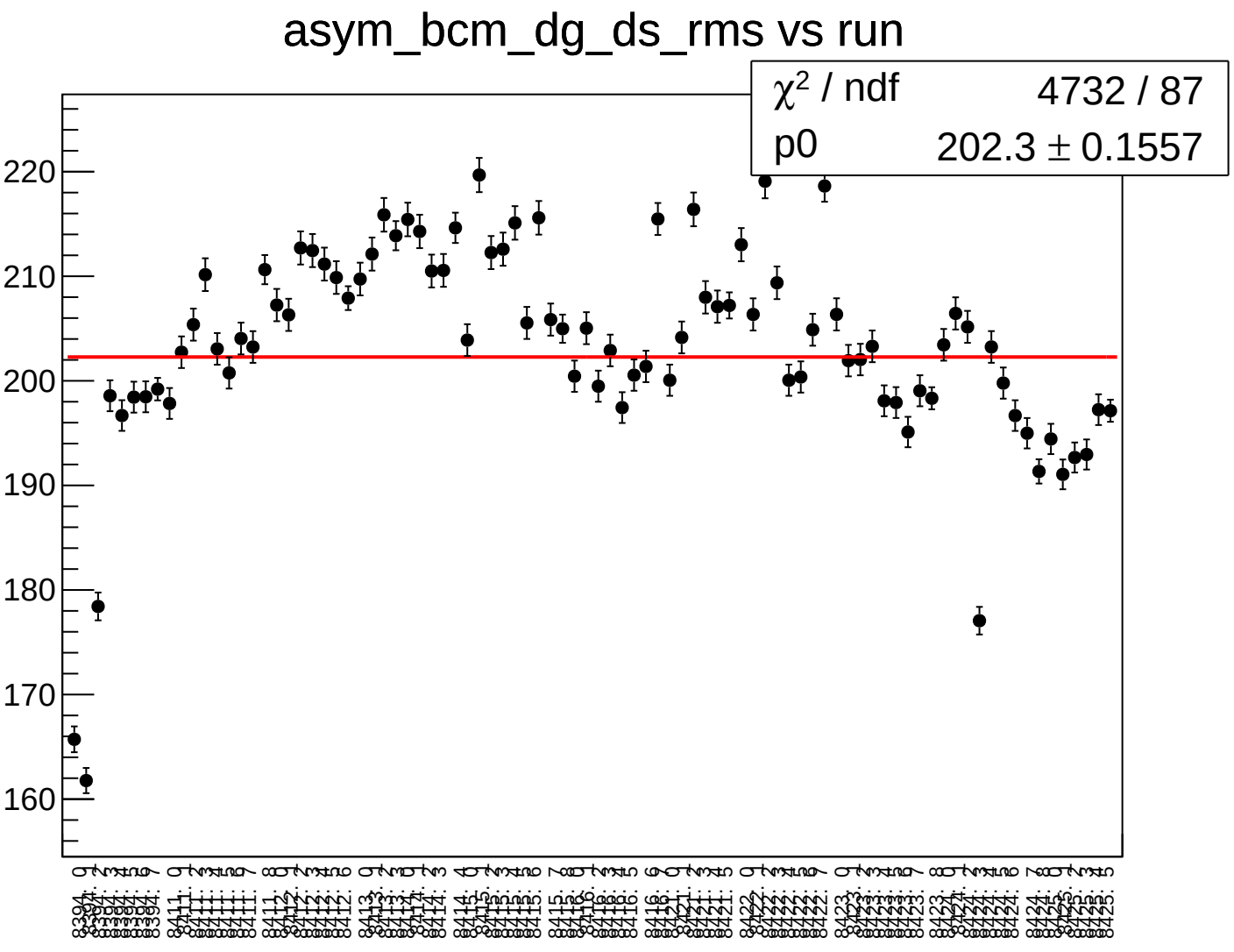

asym_bcm_an_us_rms vs run
χ² / ndf 4509 / 87
p0 200.4 ± 0.1542
220
210
200
190
180
170
160

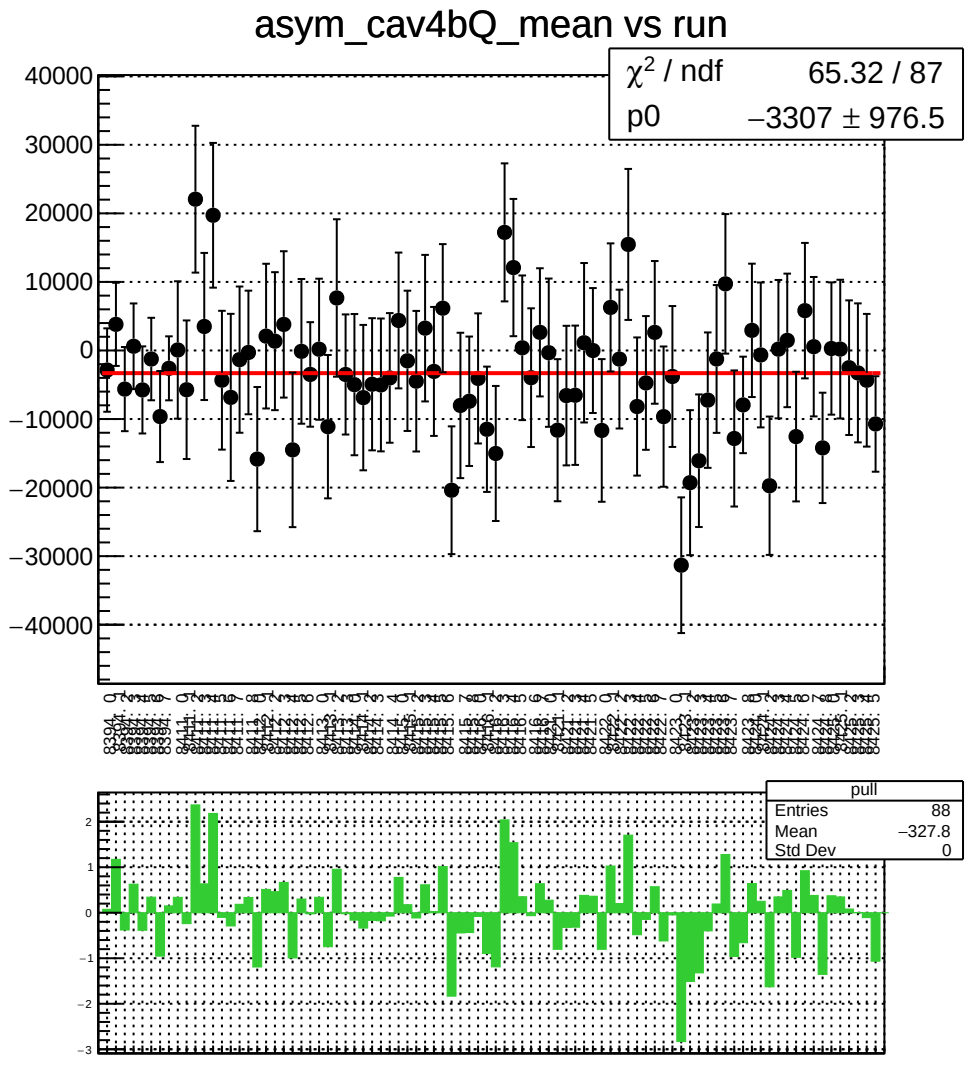

asym_bcm_dg_us_mean vs run
χ² / ndf 22.41 / 87
p0 437.1 ± 221.9
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 66.31
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.004655
Std Dev 0.5046
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

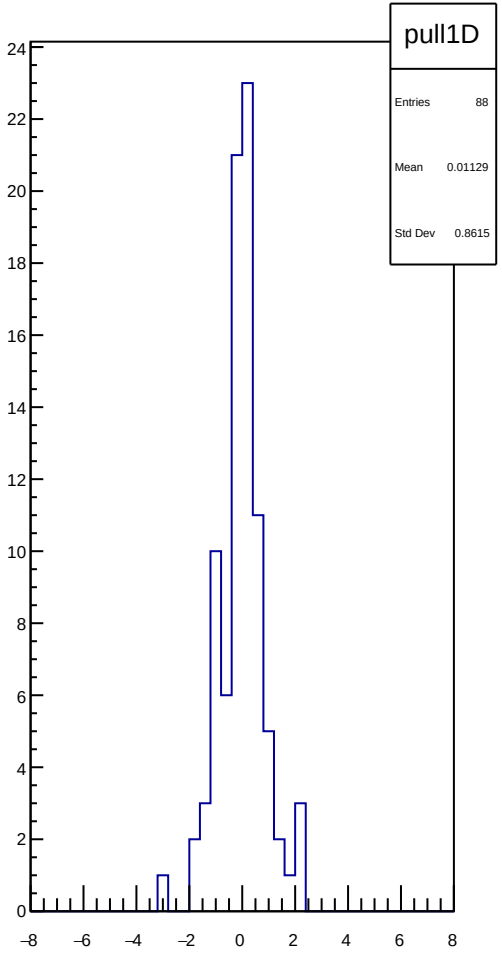

asym_bcm_dg_us_rms vs run
χ² / ndf 4752 / 87
p0 203.9 ± 0.1569
220
210
200
190
180
170
160

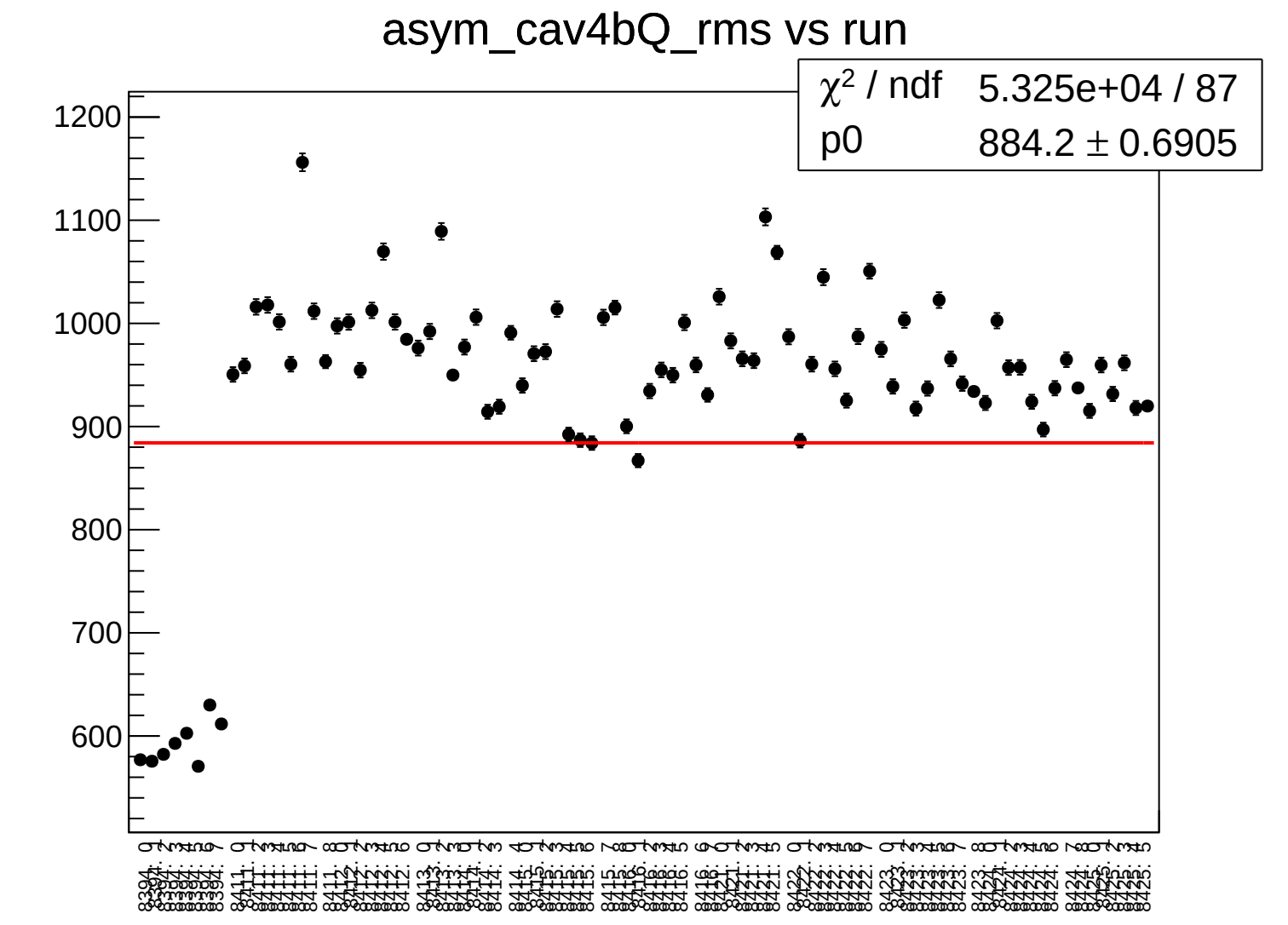

asym_bcm_dg_ds_mean vs run
χ² / ndf 21.47 / 87
p0 454 ± 220.2
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −390.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1

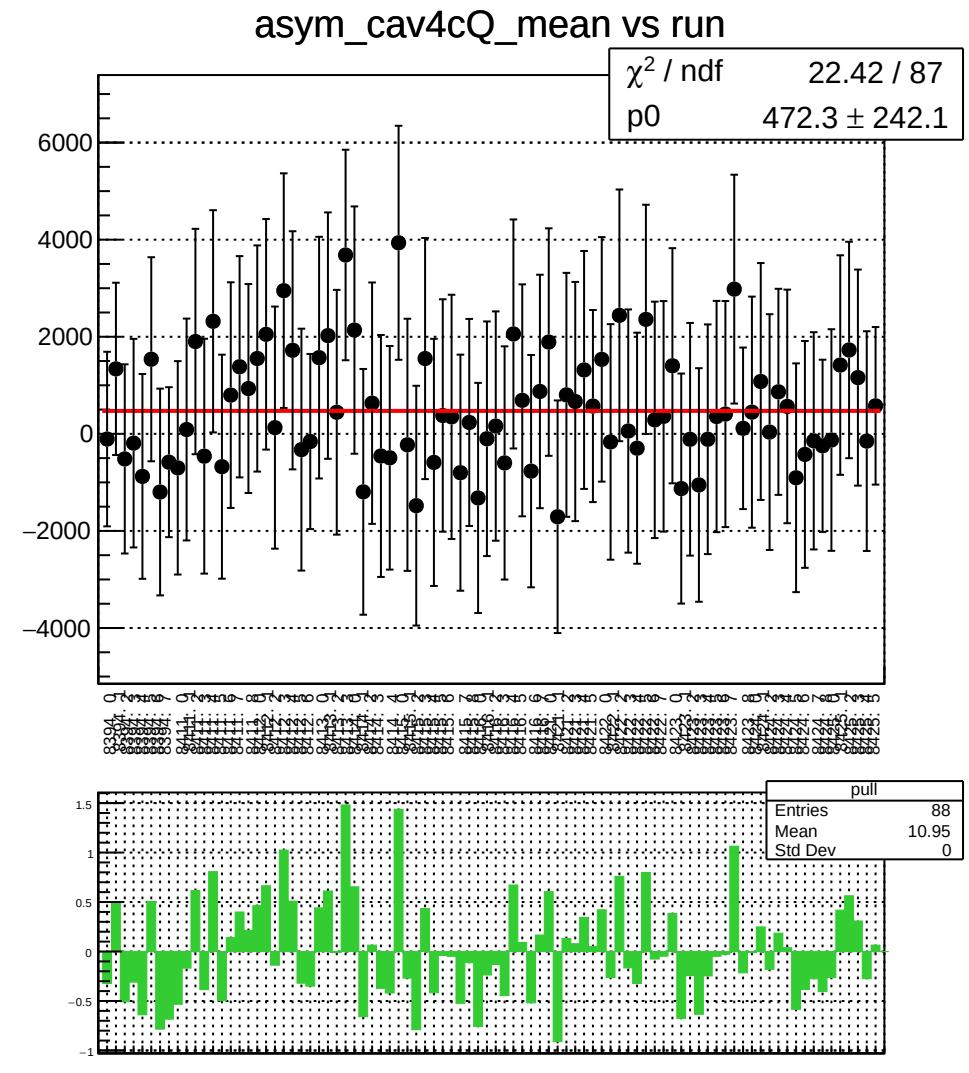

pull1D
Entries 88
Mean 0.002684
Std Dev 0.4939
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

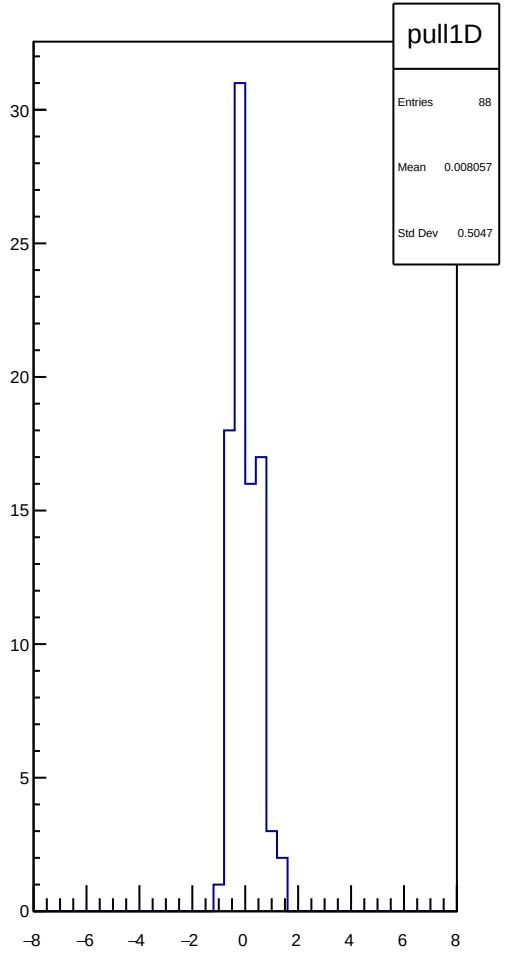

asym_bcm_dg_ds_rms vs run
χ² / ndf 4732 / 87
p0 202.3 ± 0.1557
220
210
200
190
180
170
160

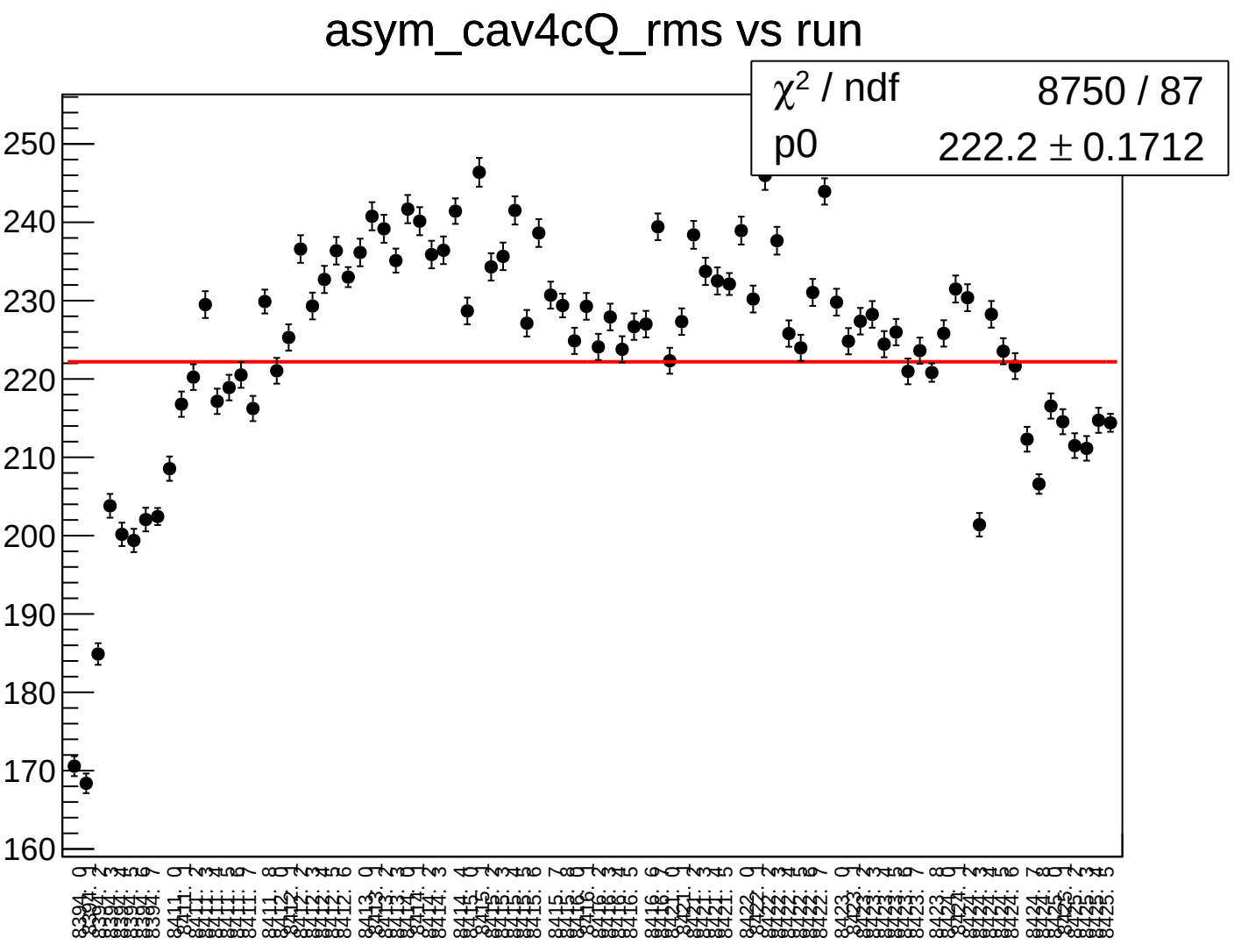

asym_cav4bQ_mean vs run
χ² / ndf 65.32 / 87
p0 −3307 ± 976.5
pull
Entries 88
Mean −327.8
Std Dev 0

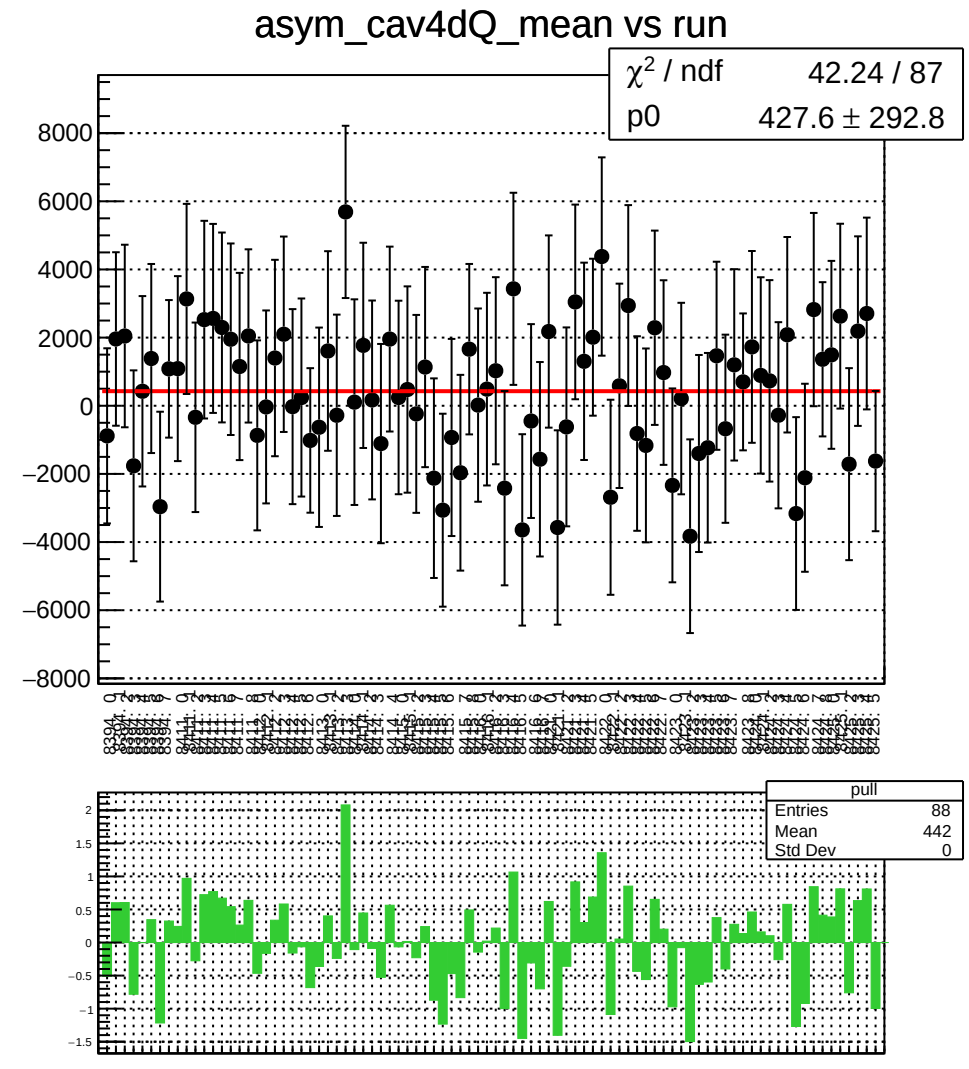

pull1D
Entries 88
Mean 0.01129
Std Dev 0.8615

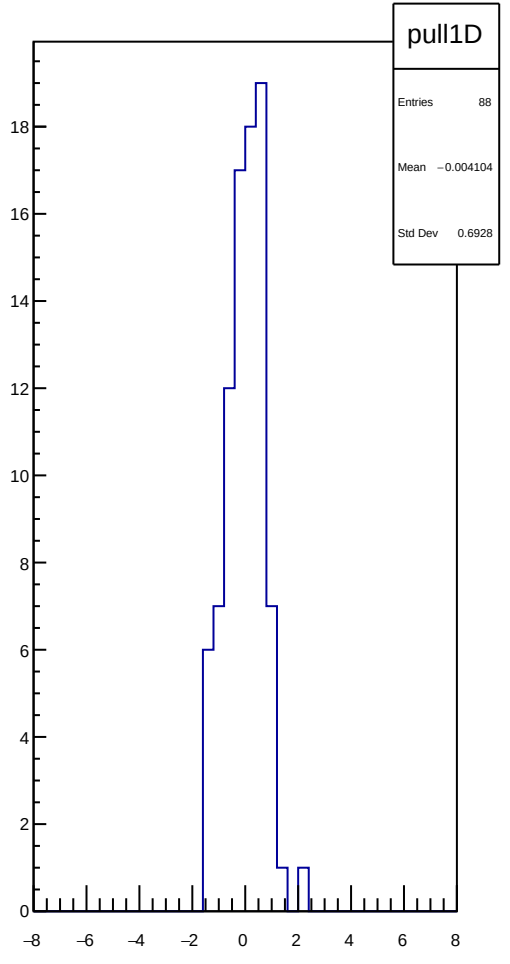

asym_cav4bQ_rms vs run
χ² / ndf 5.325e+04 / 87
p0 884.2 ± 0.6905
1200
1100
1000
900
800
700
600

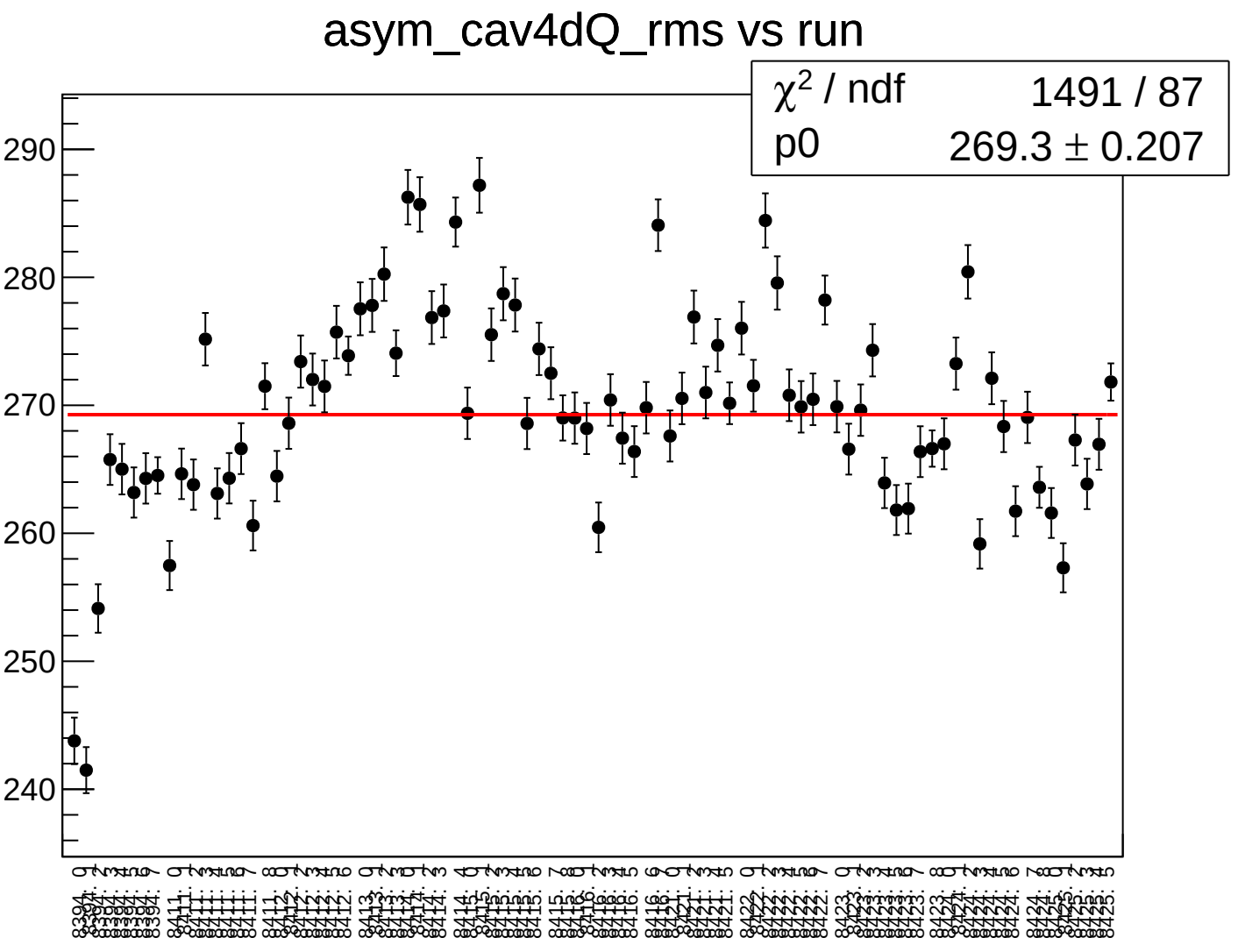

asym_cav4cQ_mean vs run
χ² / ndf 22.42 / 87
p0 472.3 ± 242.1
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 10.95
Std Dev 0
1.5
1
0.5
0
−0.5
−1

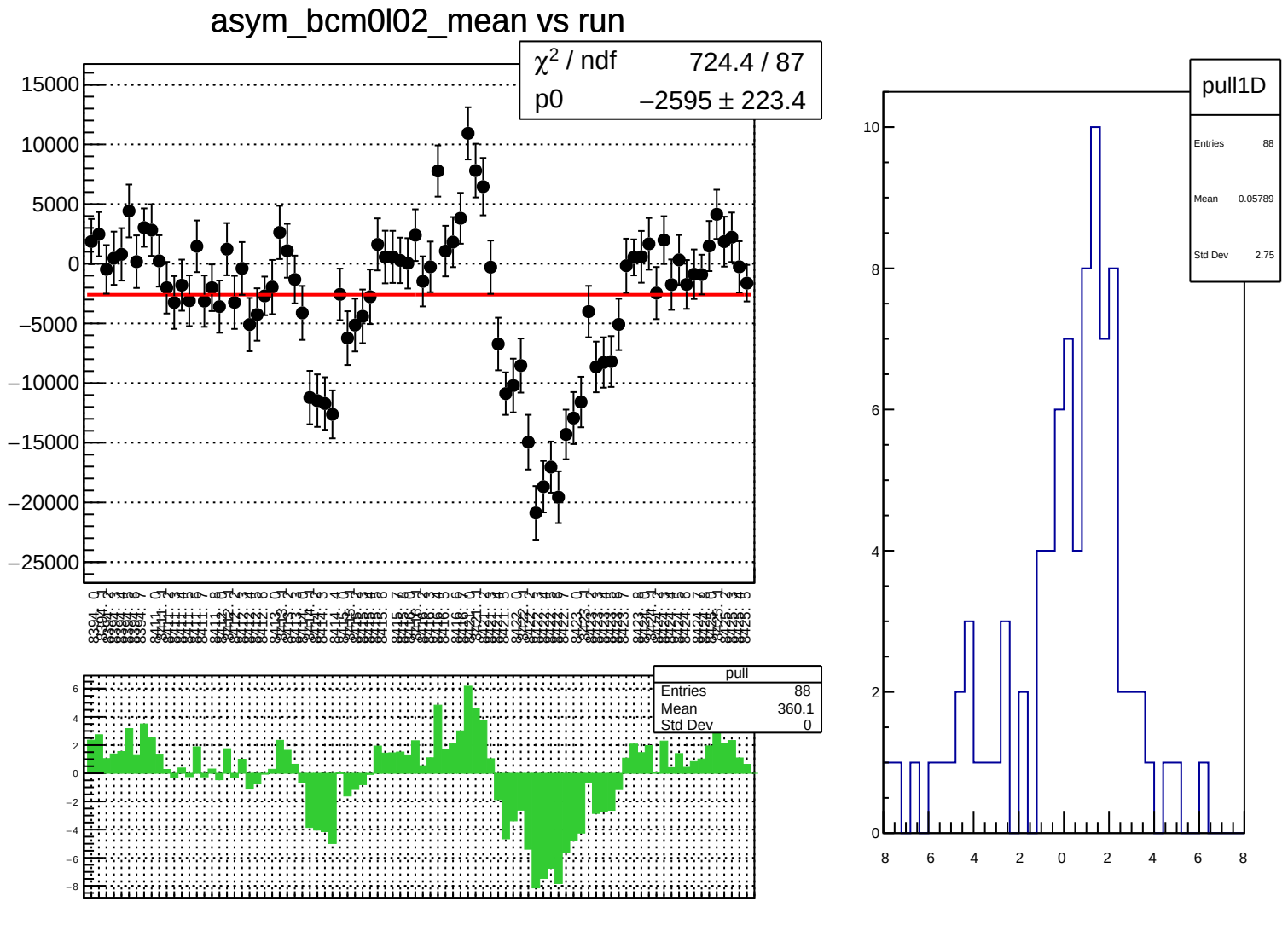

pull1D
Entries 88
Mean 0.008057
Std Dev 0.5047
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

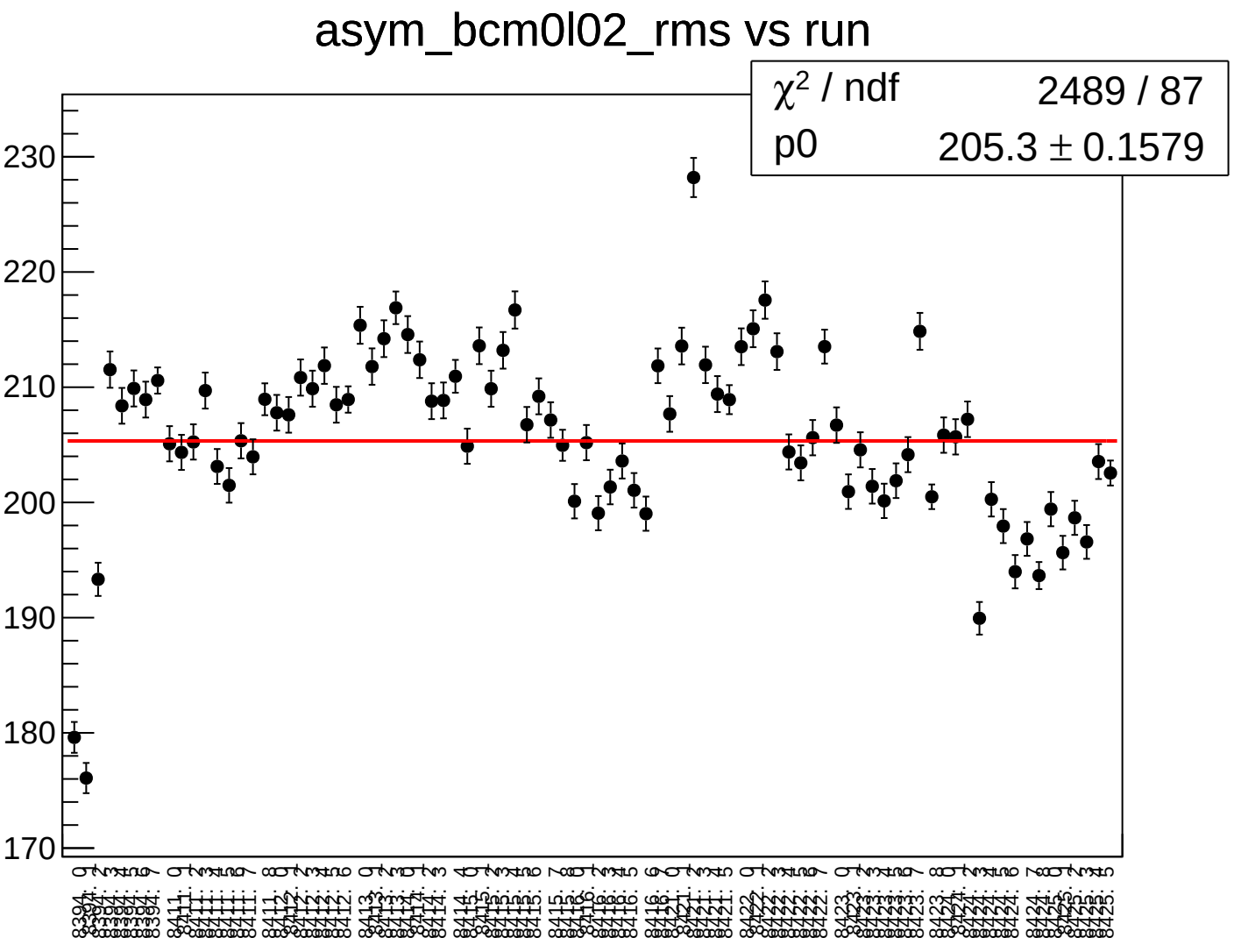

asym_cav4cQ_rms vs run
χ² / ndf 8750 / 87
p0 222.2 ± 0.1712
250
240
230
220
210
200
190
180
170
160

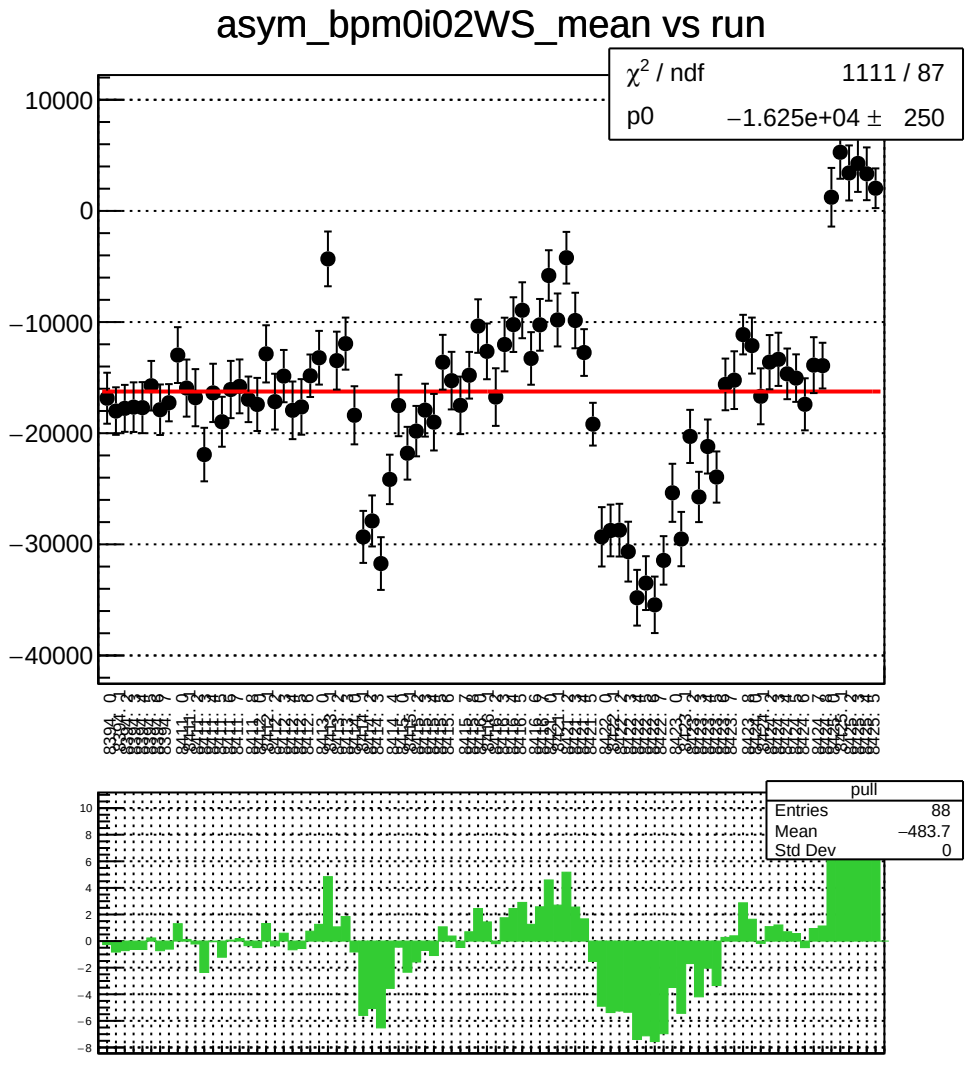

asym_cav4dQ_mean vs run
χ² / ndf 42.24 / 87
p0 427.6 ± 292.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 88
Mean 442
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

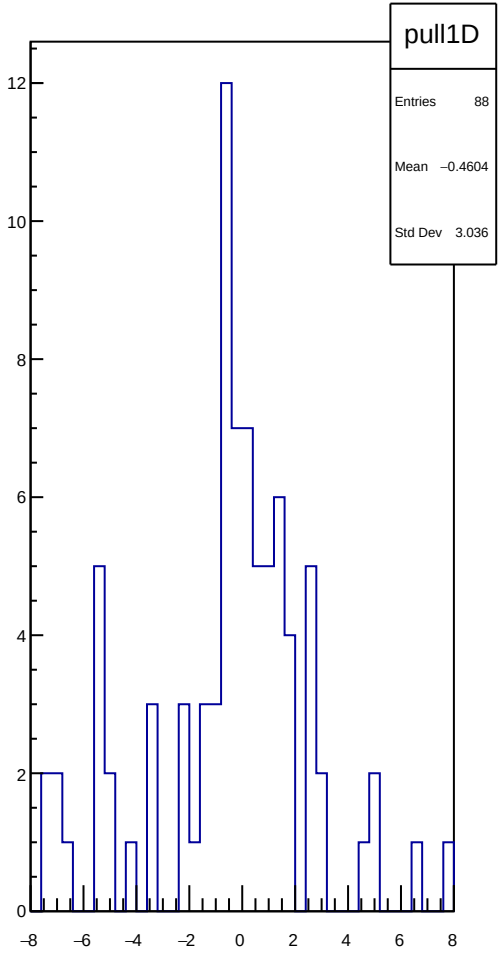

pull1D
Entries 88
Mean −0.004104
Std Dev 0.6928
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

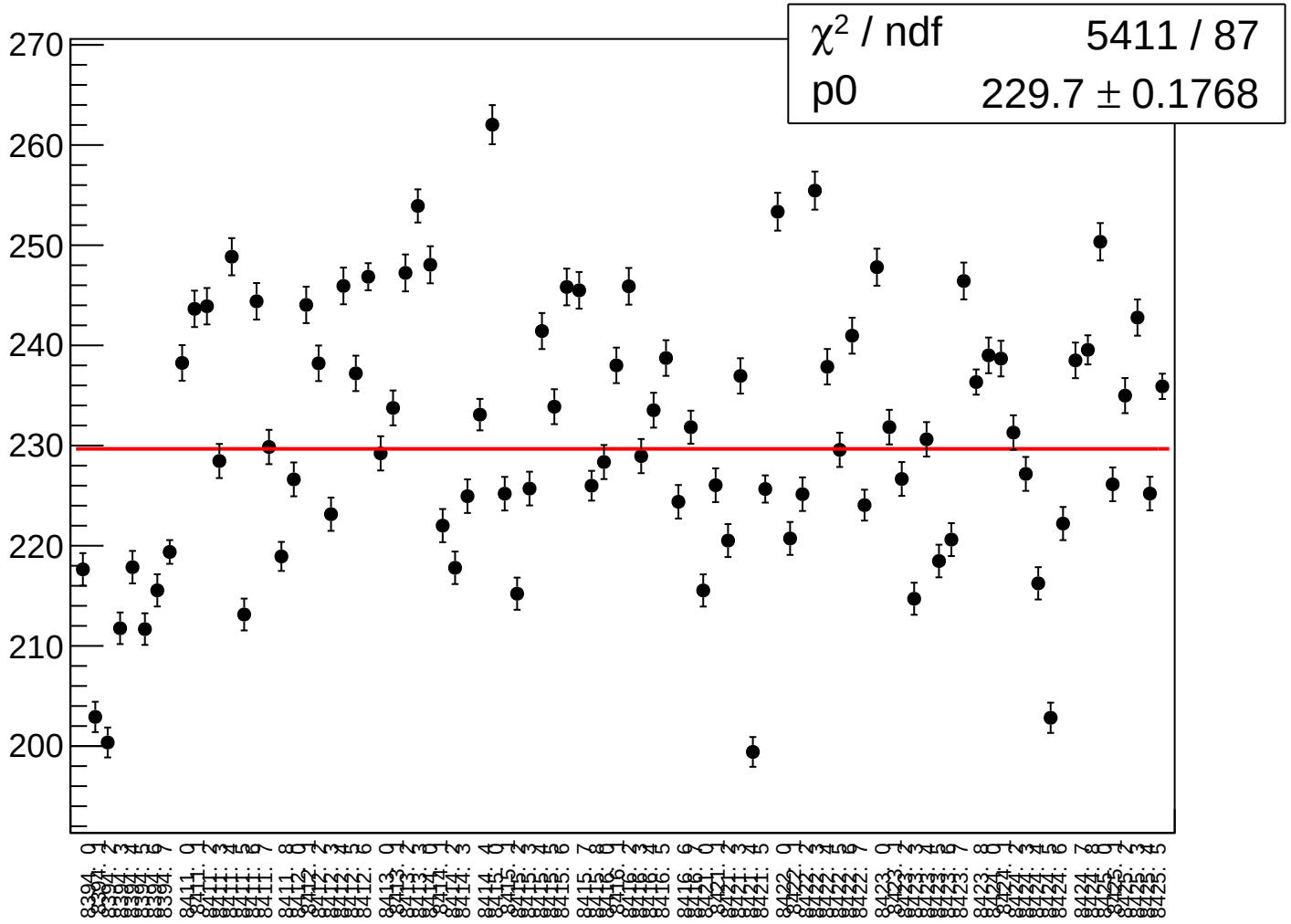

asym_cav4dQ_rms vs run
χ^2 / ndf 1491 / 87
p0 269.3 ± 0.207
290
280
270
260
250
240

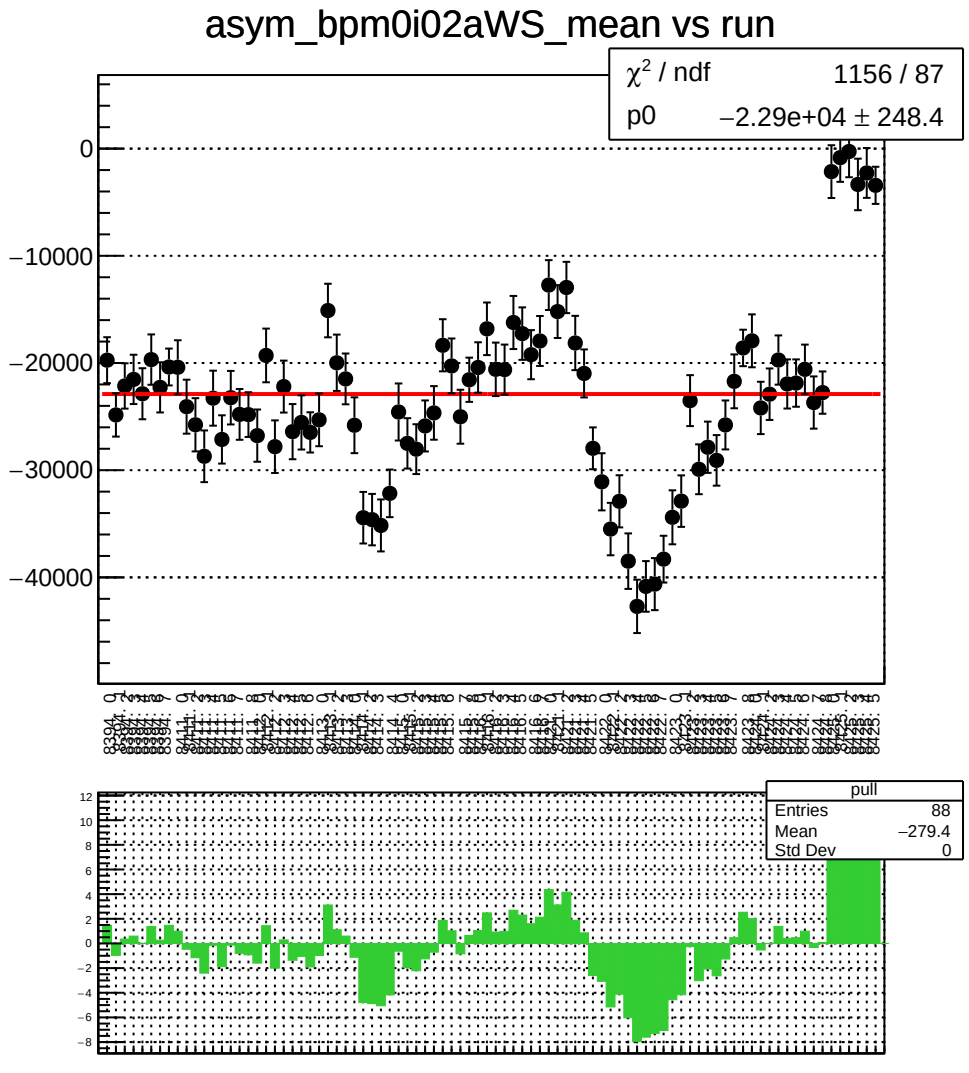

asym_bcm0l02_mean vs run
χ² / ndf 724.4 / 87
p0 −2595 ± 223.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 88
Mean 360.1
Std Dev 0
pull1D
Entries 88
Mean 0.05789
Std Dev 2.75
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

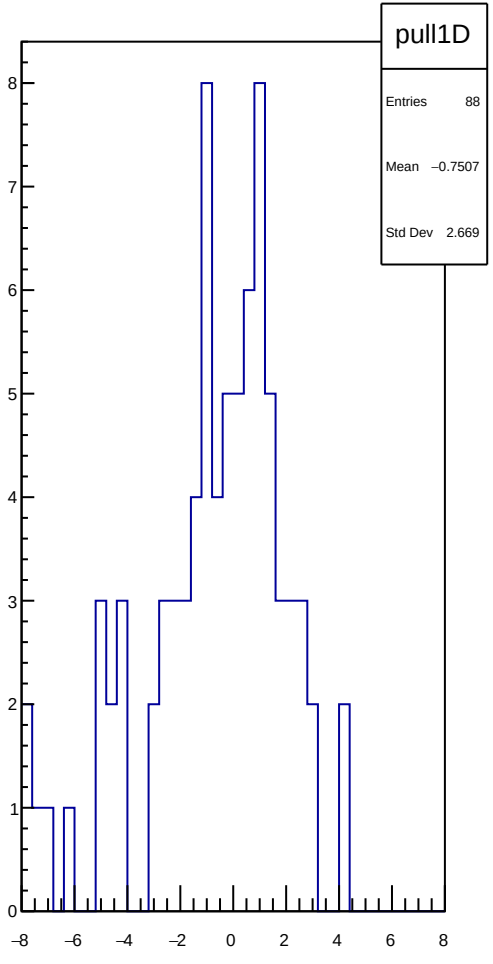

asym_bcm0l02_rms vs run
χ² / ndf 2489 / 87
p0 205.3 ± 0.1579
230
220
210
200
190
180
170

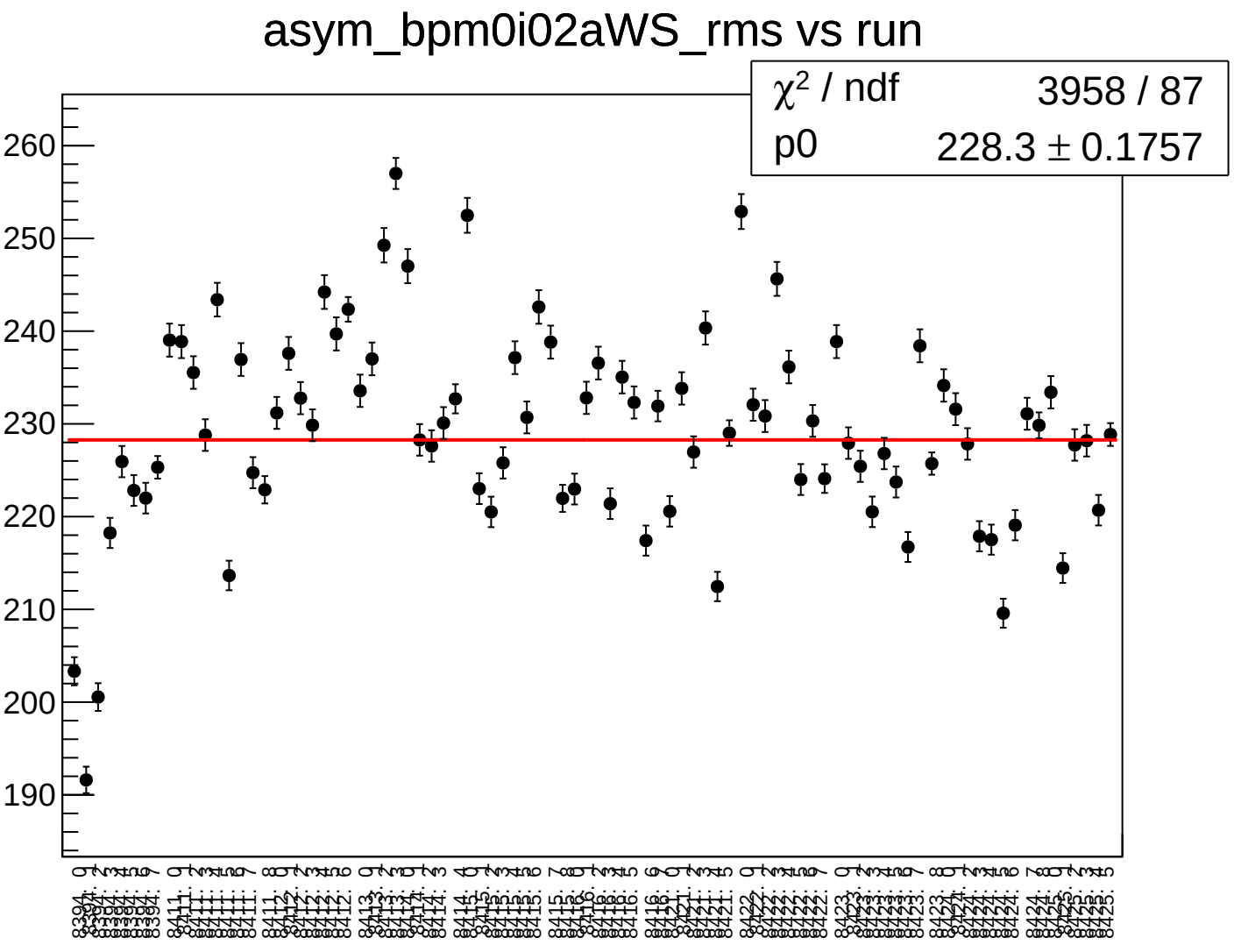

asym_bpm0i02WS_mean vs run
χ² / ndf 1111 / 87
p0 −1.625e+04 ± 250
pull
Entries 88
Mean −483.7
Std Dev 0

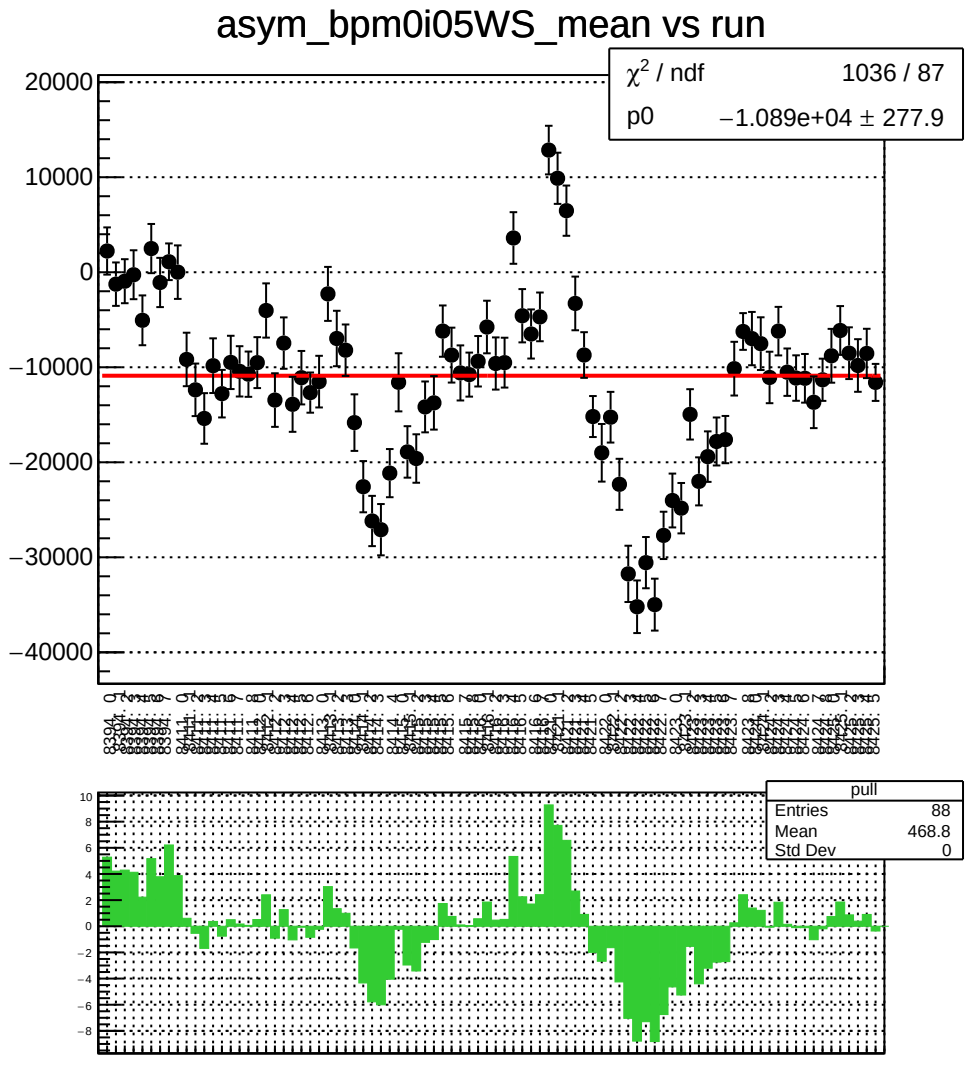

pull1D
Entries 88
Mean −0.4604
Std Dev 3.036

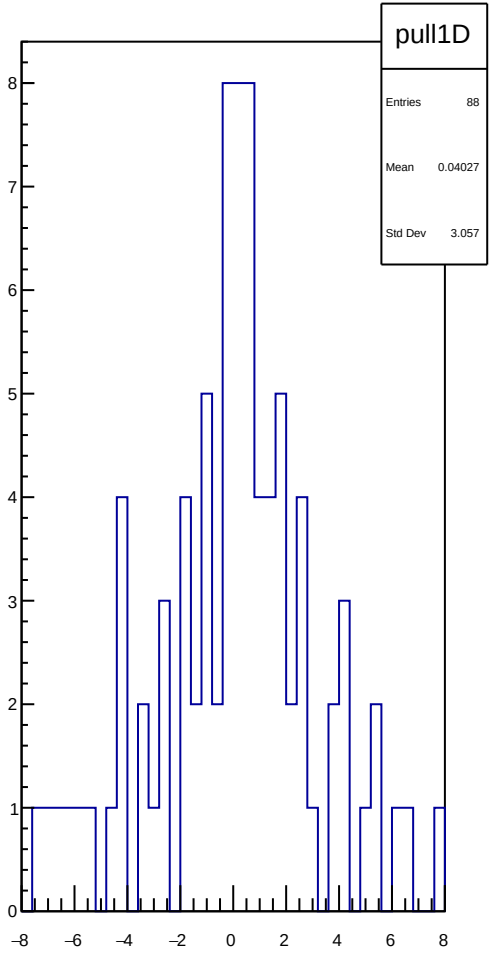

asym_bpm0i02WS_rms vs run
χ^2 / ndf 5411 / 87
p0 229.7 ± 0.1768
270
260
250
240
230
220
210
200

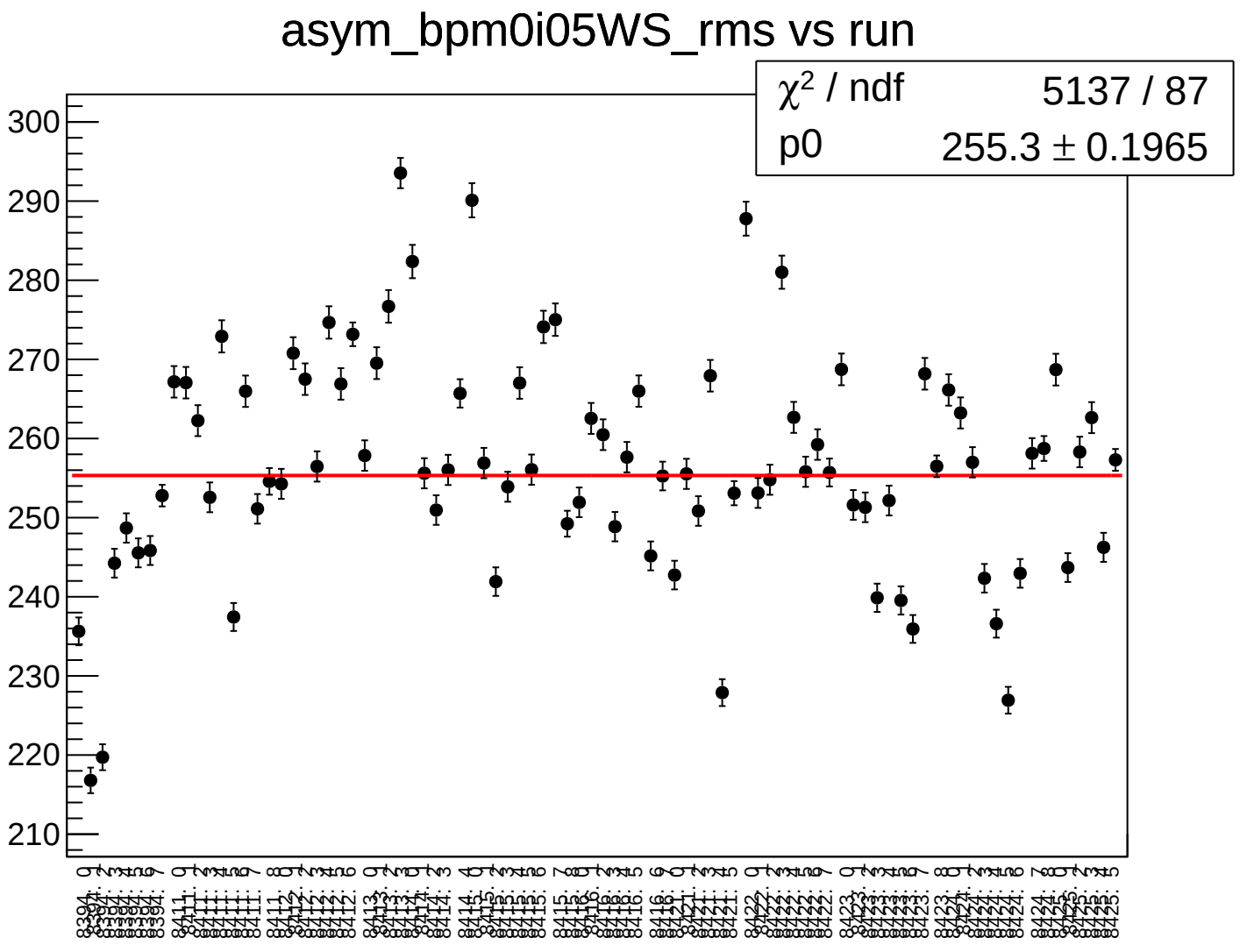

asym_bpm0i02aWS_mean vs run
χ² / ndf 1156 / 87
p0 −2.29e+04 ± 248.4
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −279.4
Std Dev 0
12
10
8
6
4
2
0
−2
−4
−6
−8

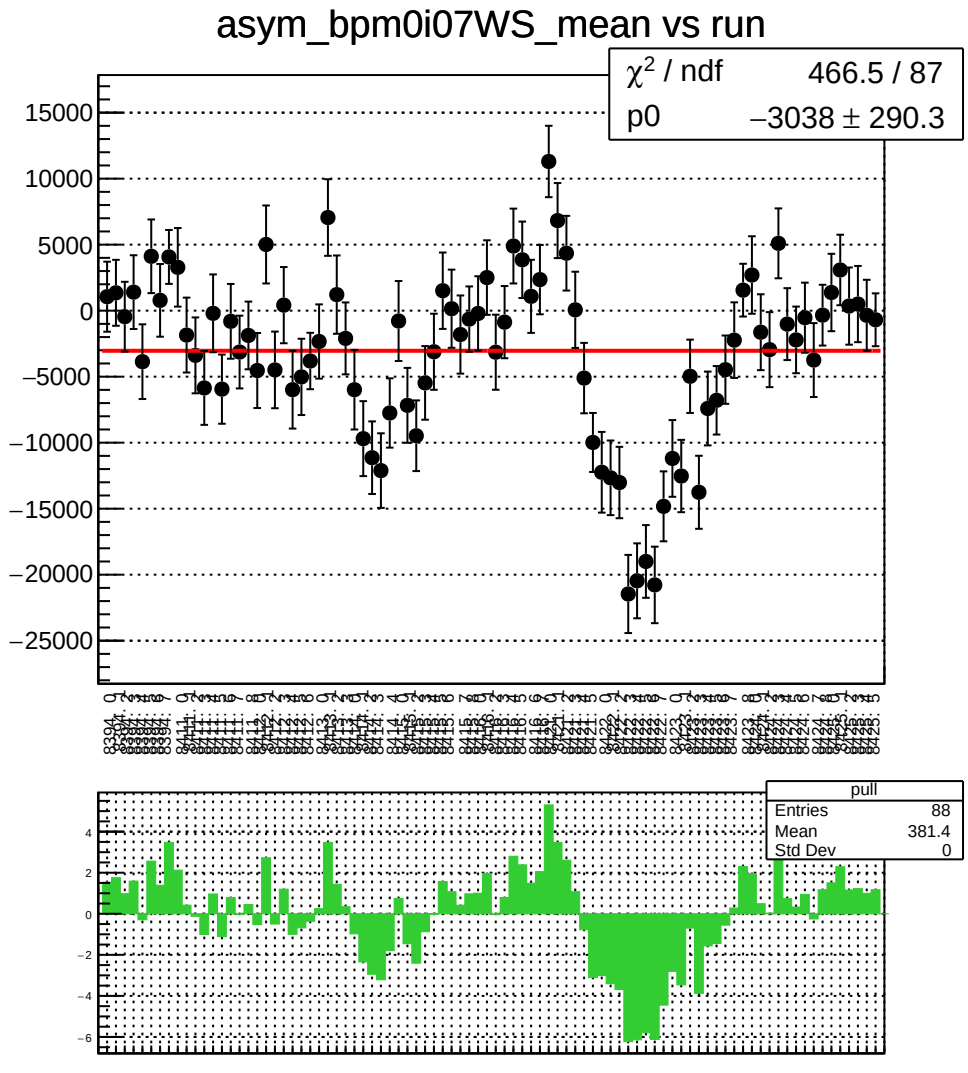

pull1D
Entries 88
Mean −0.7507
Std Dev 2.669
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

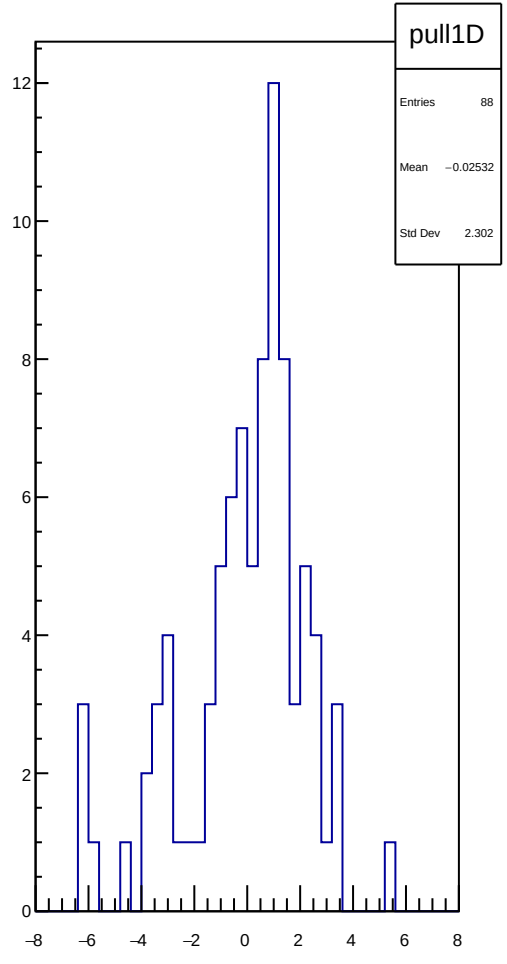

asym_bpm0i02aWS_rms vs run
χ² / ndf 3958 / 87
p0 228.3 ± 0.1757
260
250
240
230
220
210
200
190

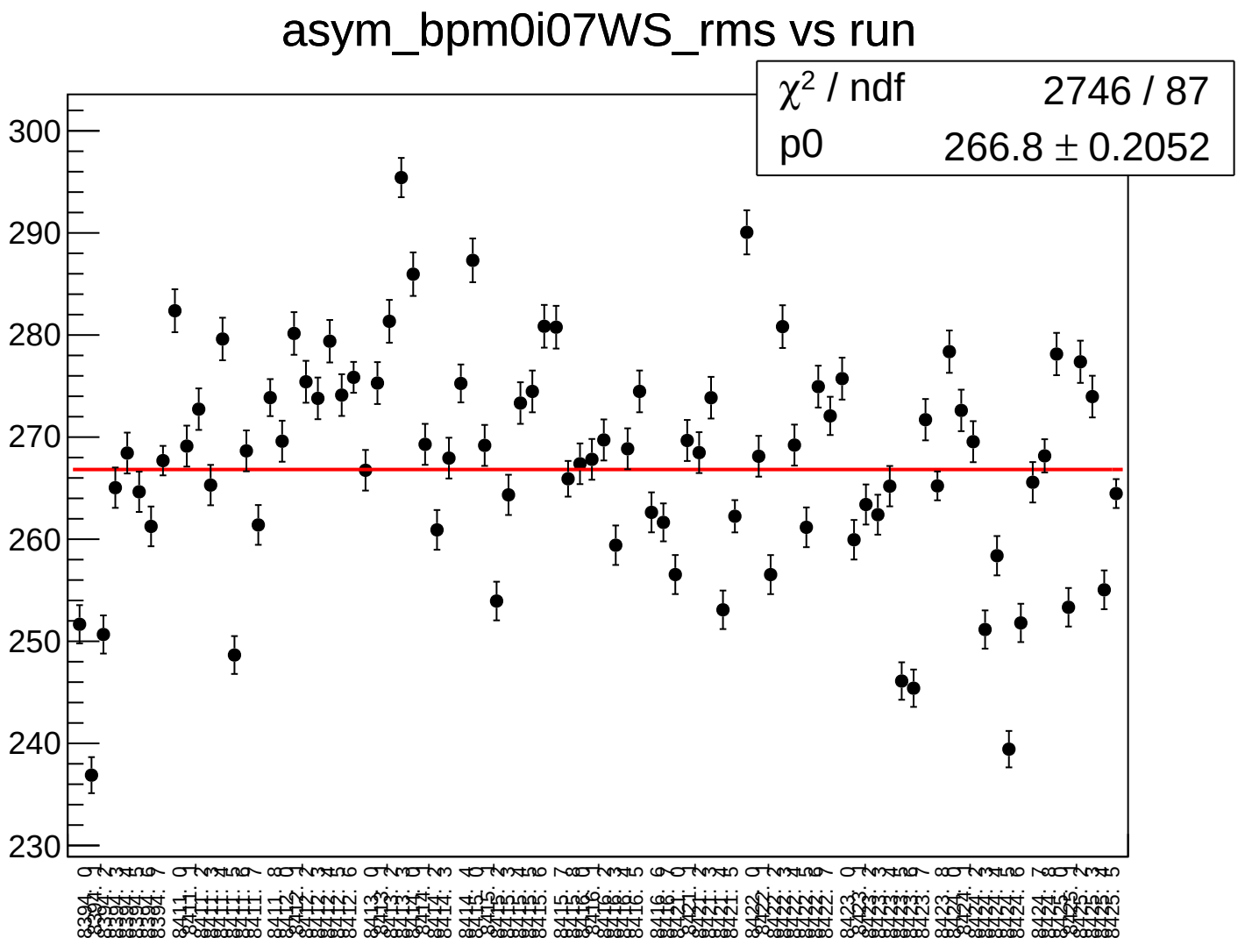

asym_bpm0i05WS_mean vs run
χ² / ndf 1036 / 87
p0 −1.089e+04 ± 277.9
pull
Entries 88
Mean 468.8
Std Dev 0

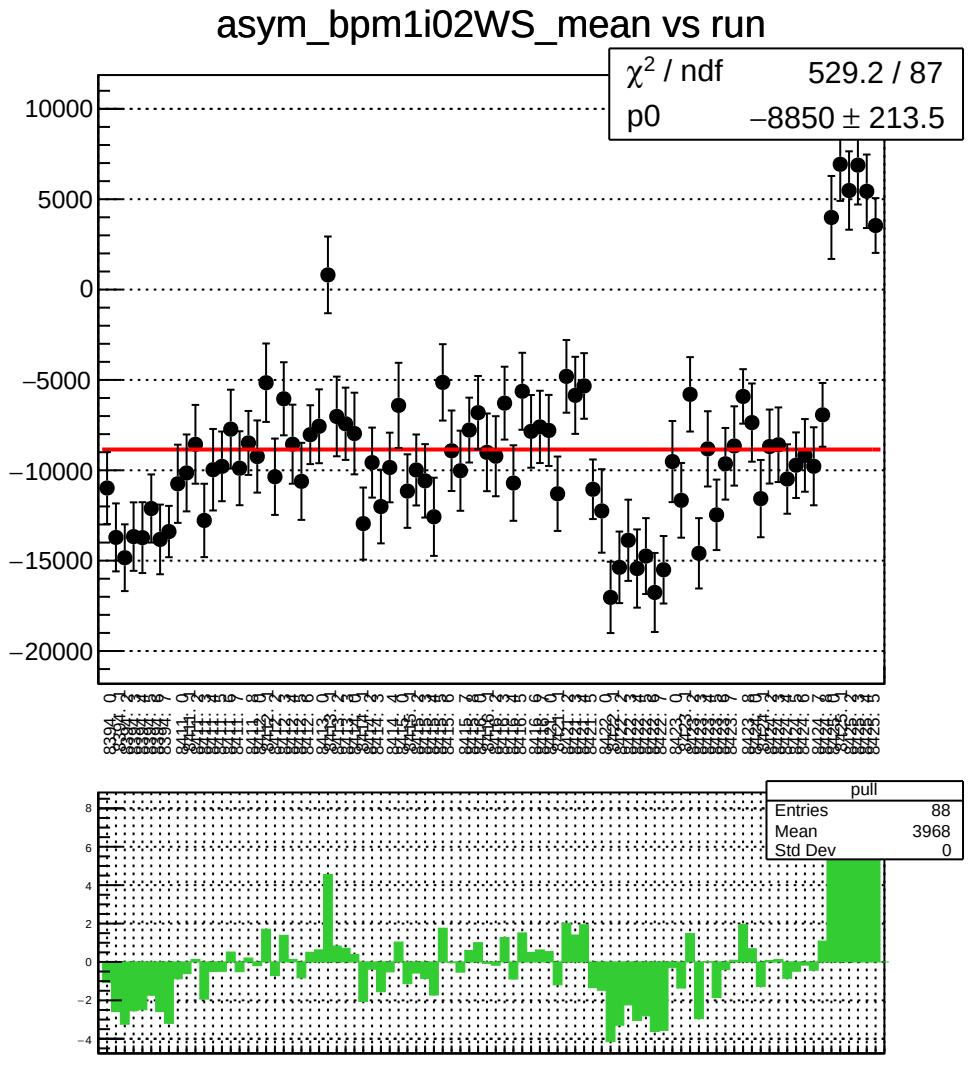

pull1D
Entries 88
Mean 0.04027
Std Dev 3.057

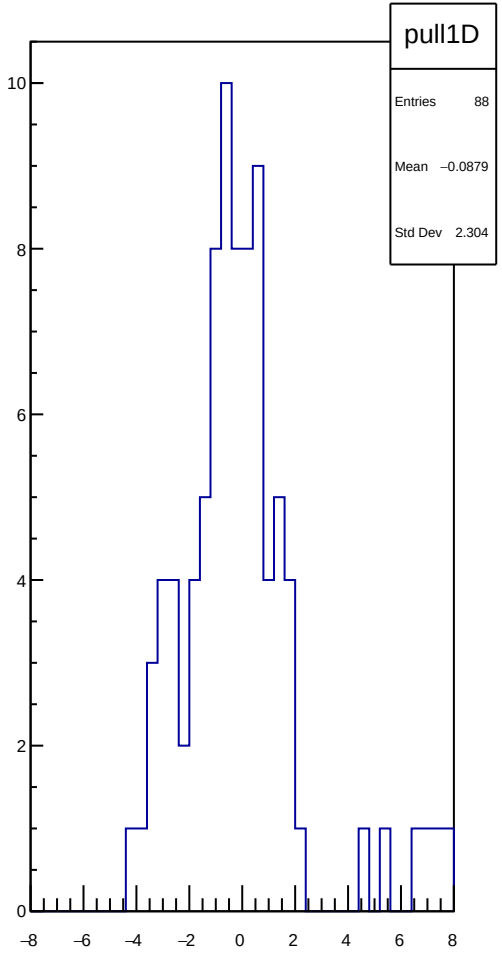

asym_bpm0i05WS_rms vs run
χ² / ndf 5137 / 87
p0 255.3 ± 0.1965
300
290
280
270
260
250
240
230
220
210

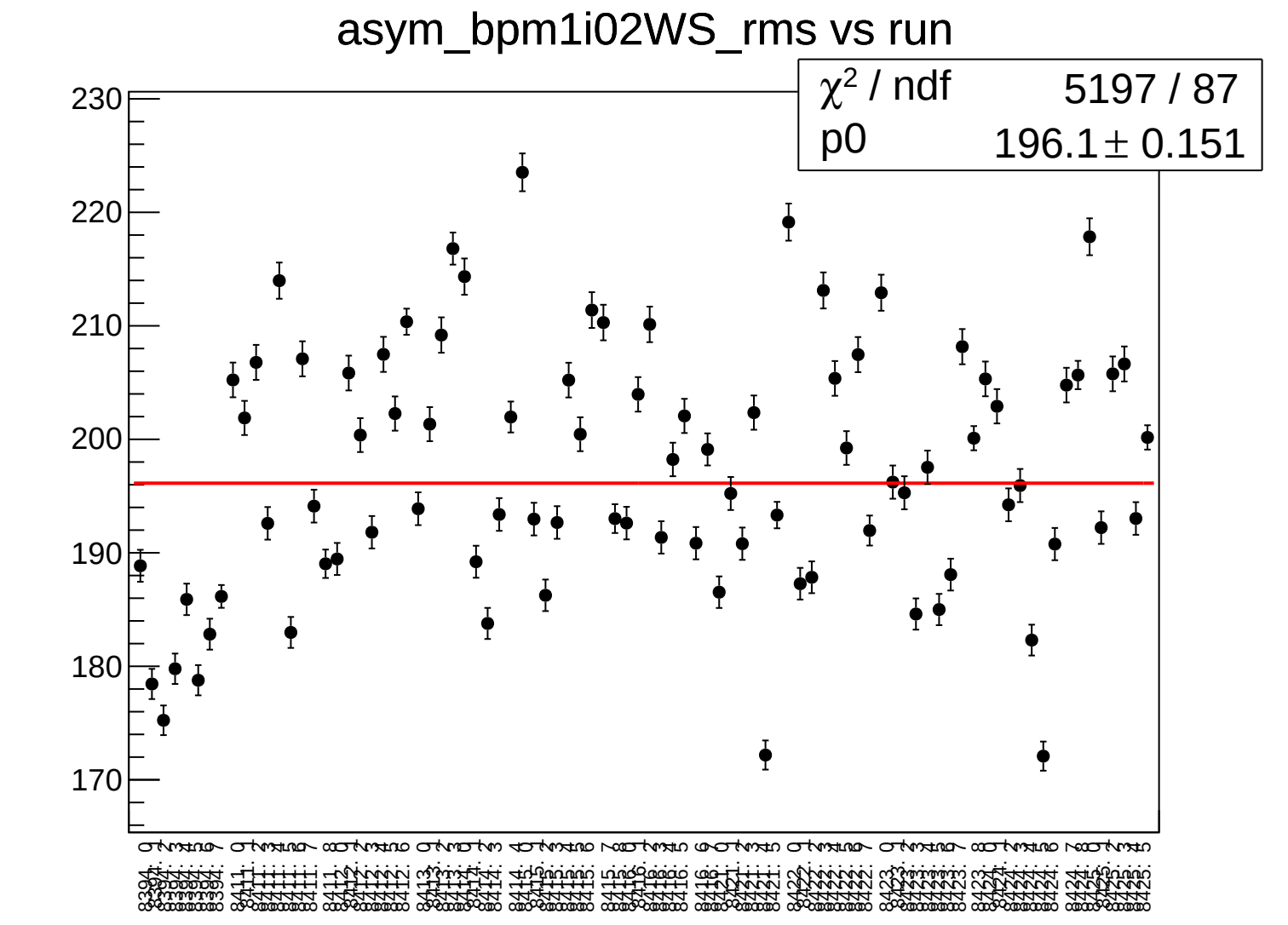

asym_bpm0i07WS_mean vs run
χ² / ndf 466.5 / 87
p0 −3038 ± 290.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 88
Mean 381.4
Std Dev 0
4
2
0
−2
−4
−6

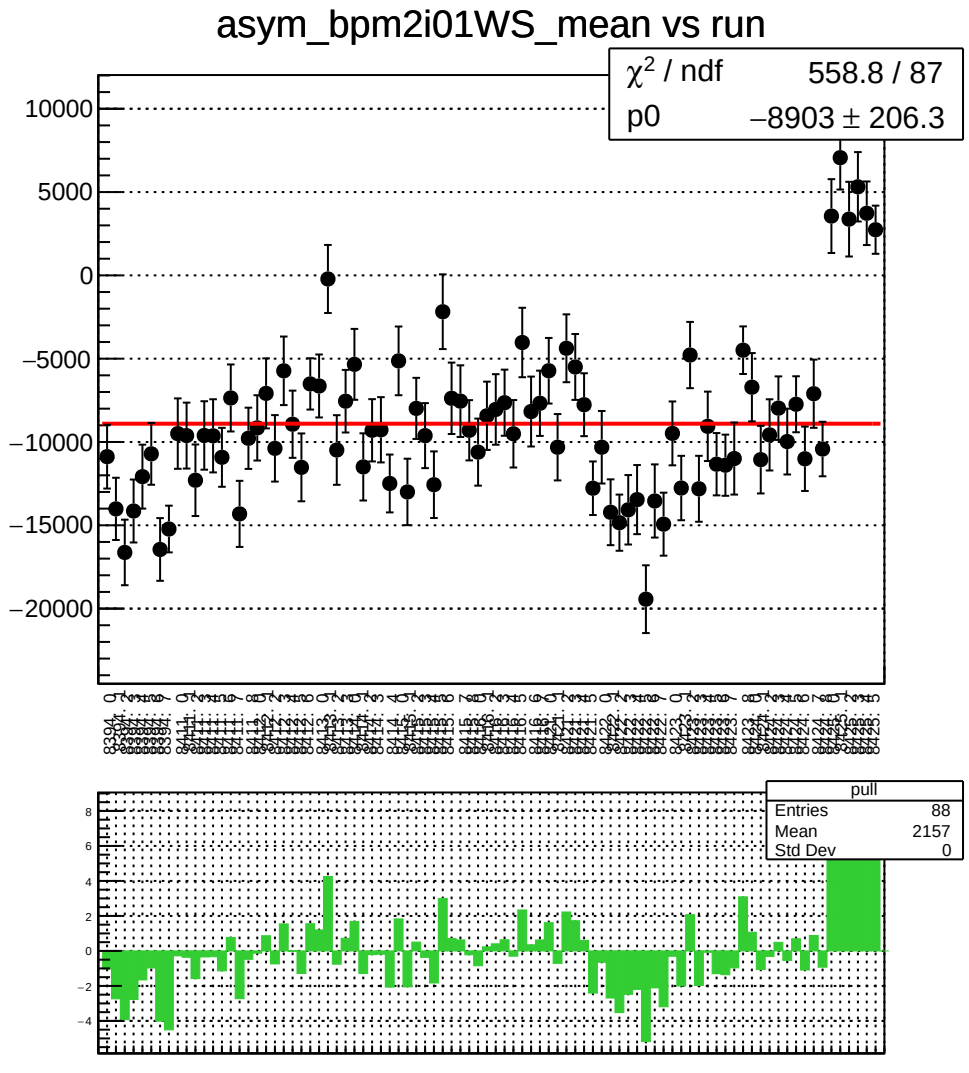

pull1D
Entries 88
Mean −0.02532
Std Dev 2.302
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

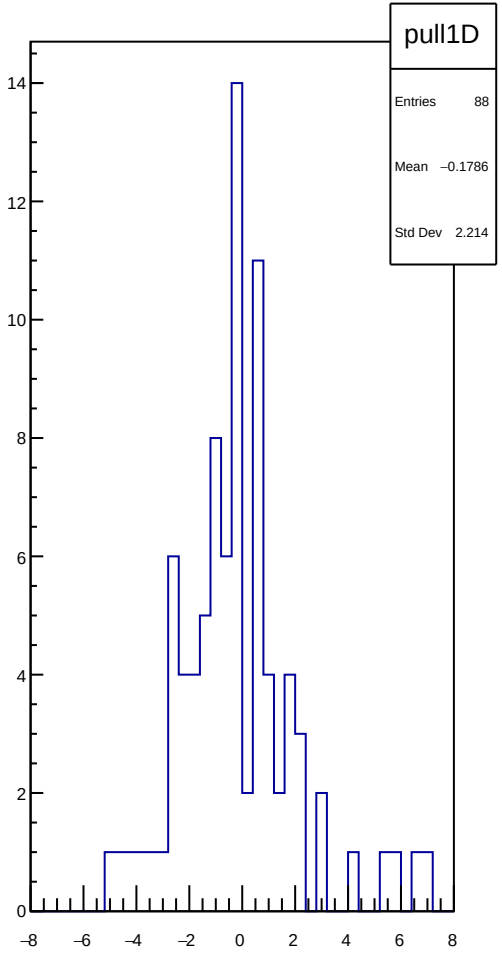

asym_bpm0i07WS_rms vs run
χ² / ndf 2746 / 87
p0 266.8 ± 0.2052
300
290
280
270
260
250
240
230

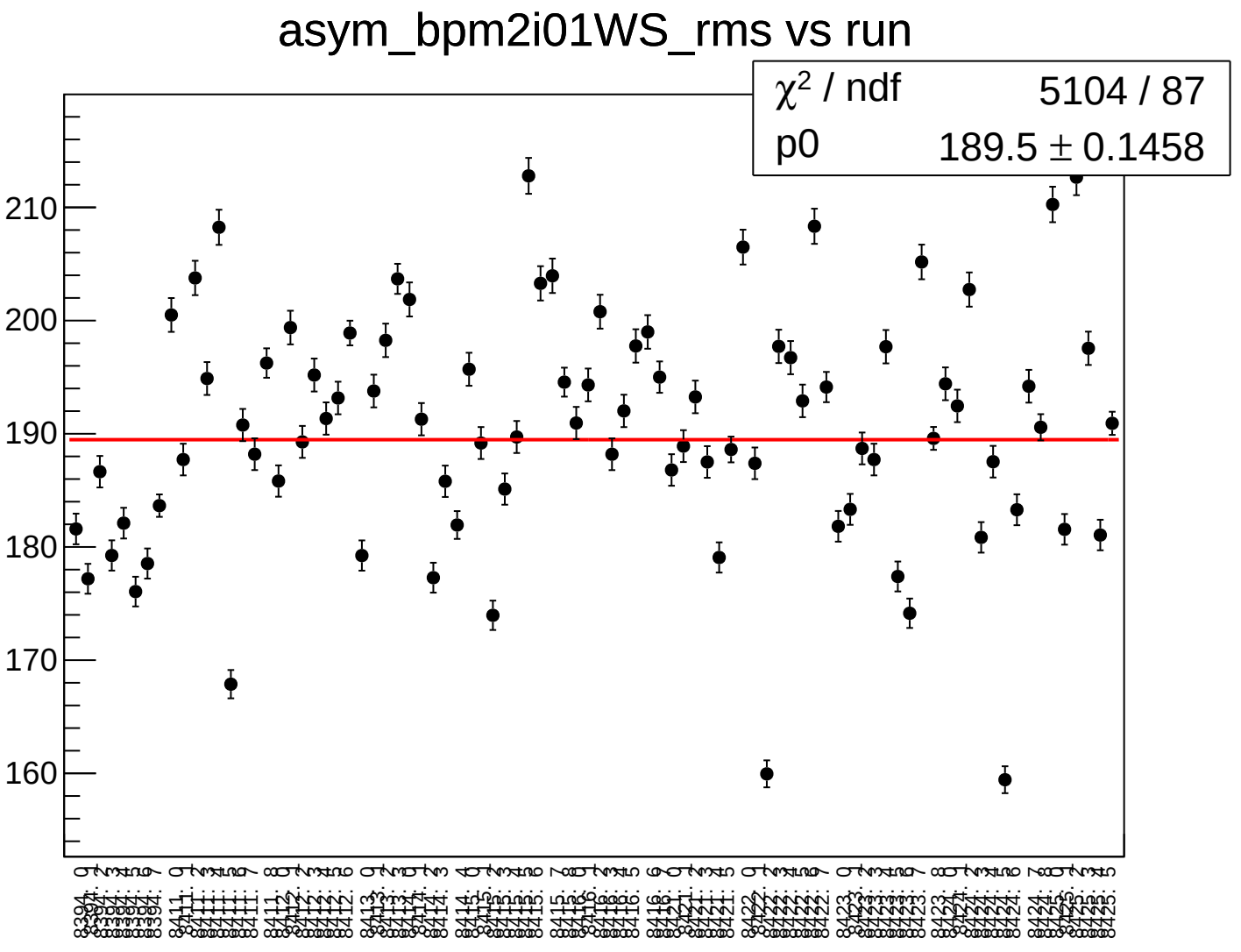

asym_bpm1i02WS_mean vs run
χ² / ndf 529.2 / 87
p0 −8850 ± 213.5
pull
Entries 88
Mean 3968
Std Dev 0

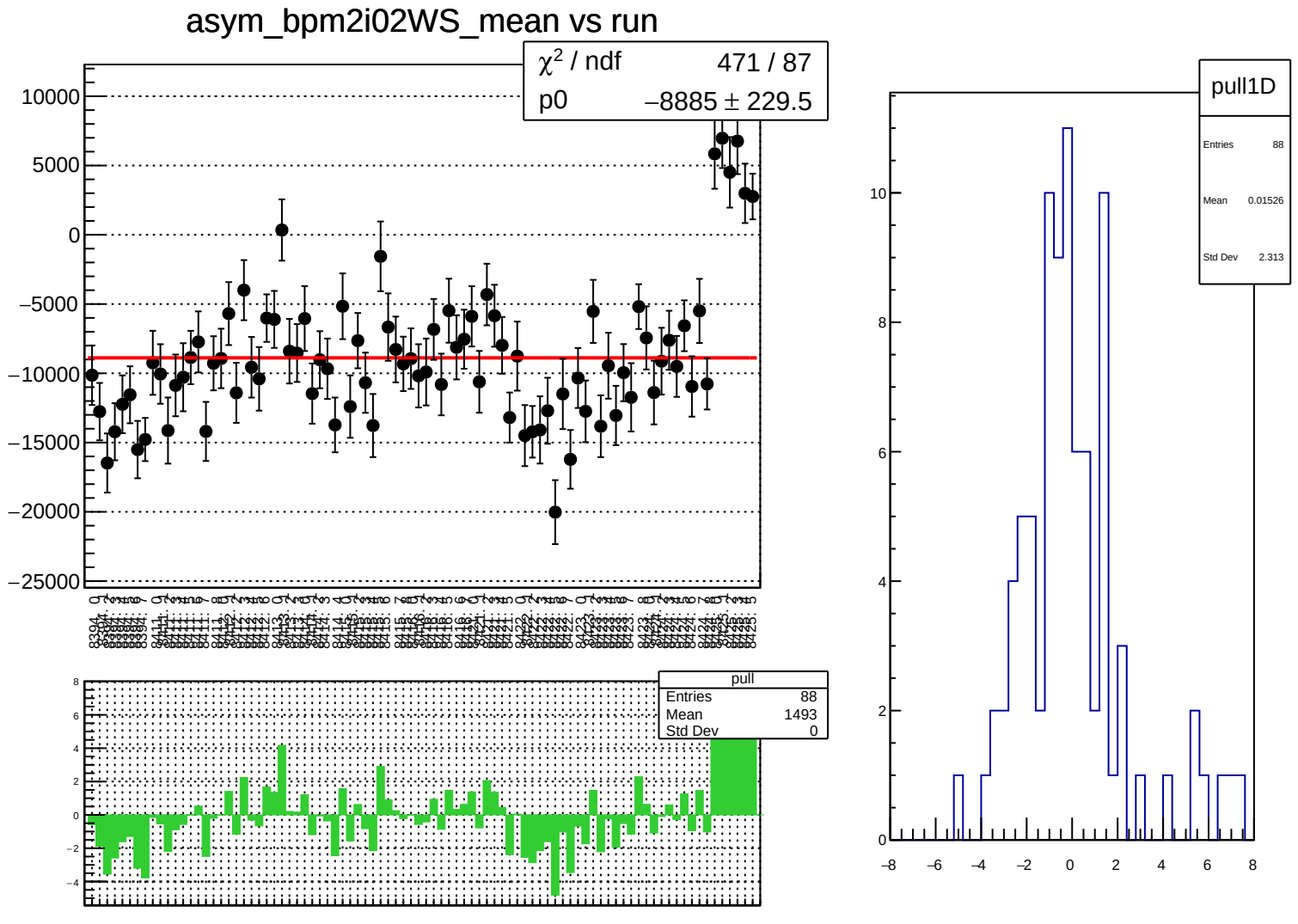

pull1D
Entries 88
Mean −0.0879
Std Dev 2.304

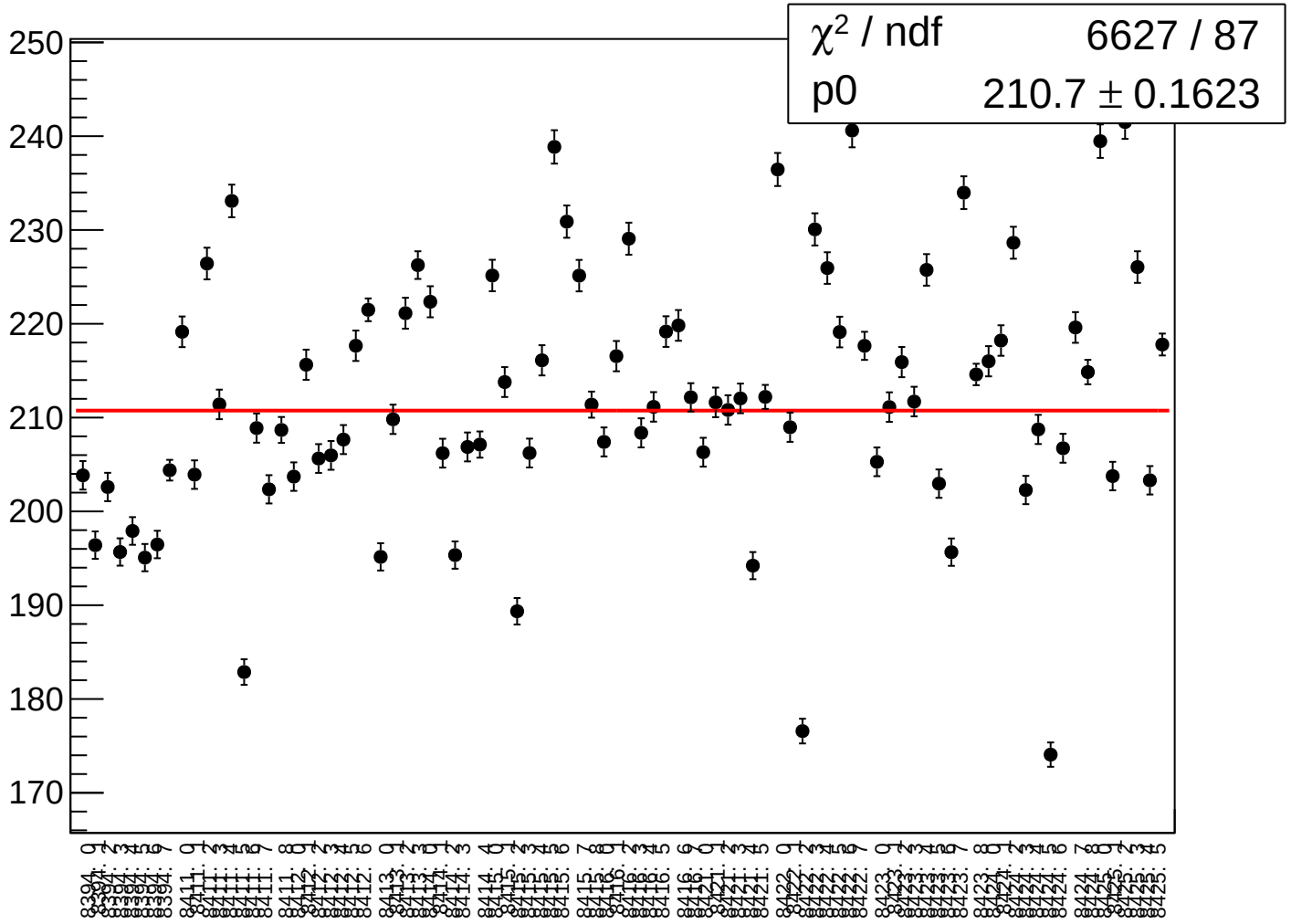

asym_bpm1i02WS_rms vs run
χ^2 / ndf 5197 / 87
p0 196.1 ± 0.151
230
220
210
200
190
180
170

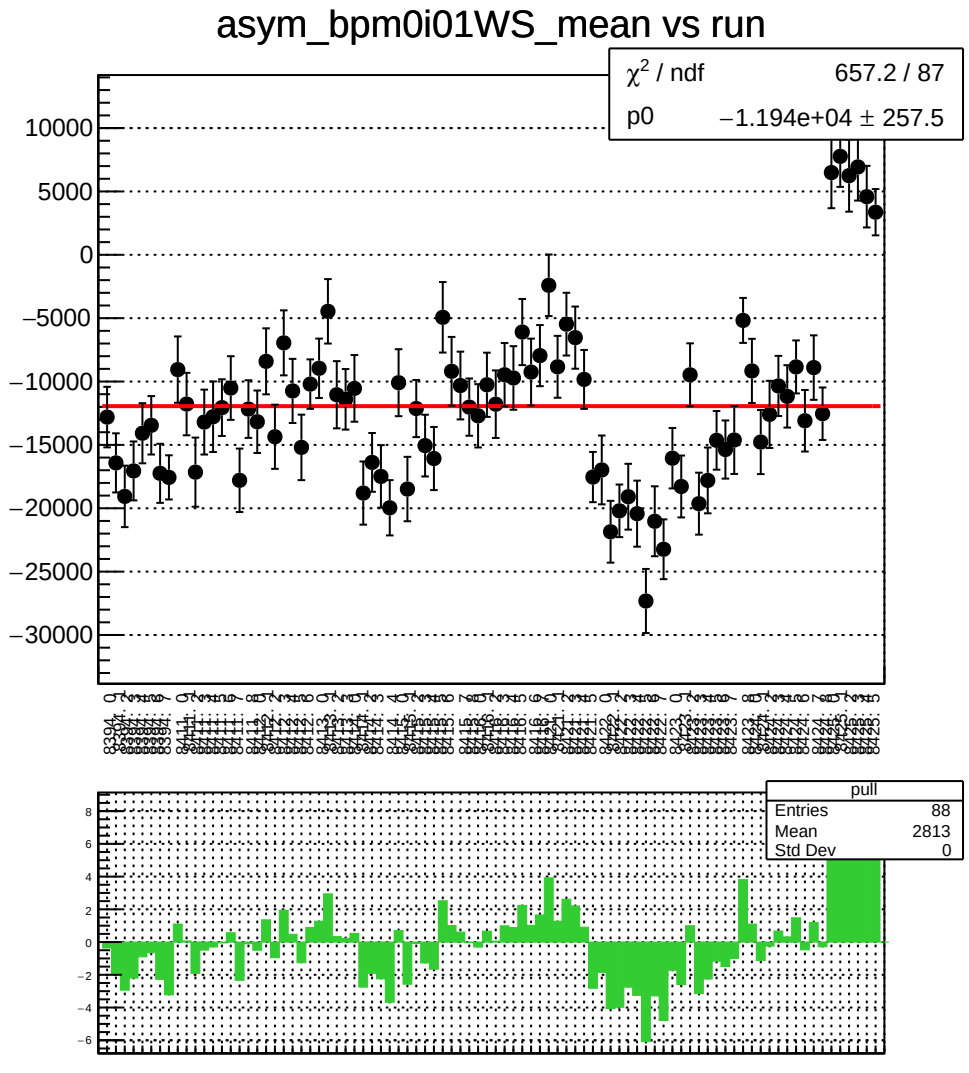

asym_bpm2i01WS_mean vs run
χ² / ndf 558.8 / 87
p0 −8903 ± 206.3
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 2157
Std Dev 0
8
6
4
2
0
−2
−4

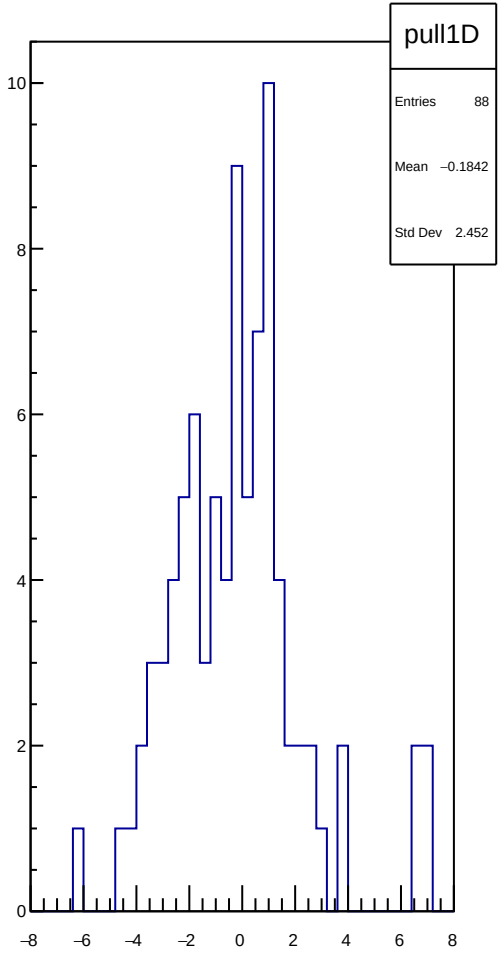

pull1D
Entries 88
Mean −0.1786
Std Dev 2.214
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

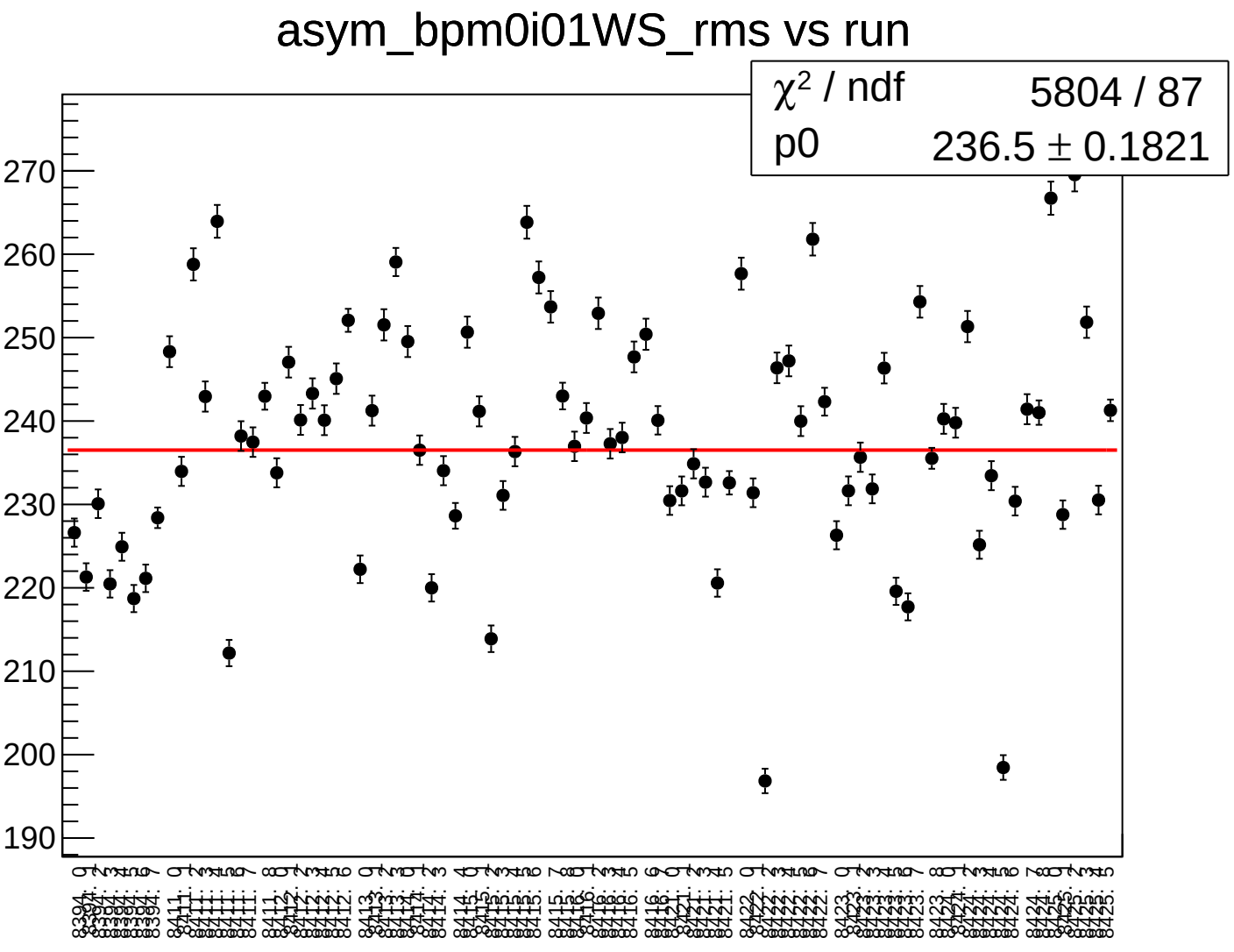

asym_bpm2i01WS_rms vs run
χ² / ndf 5104 / 87
p0 189.5 ± 0.1458
210
200
190
180
170
160

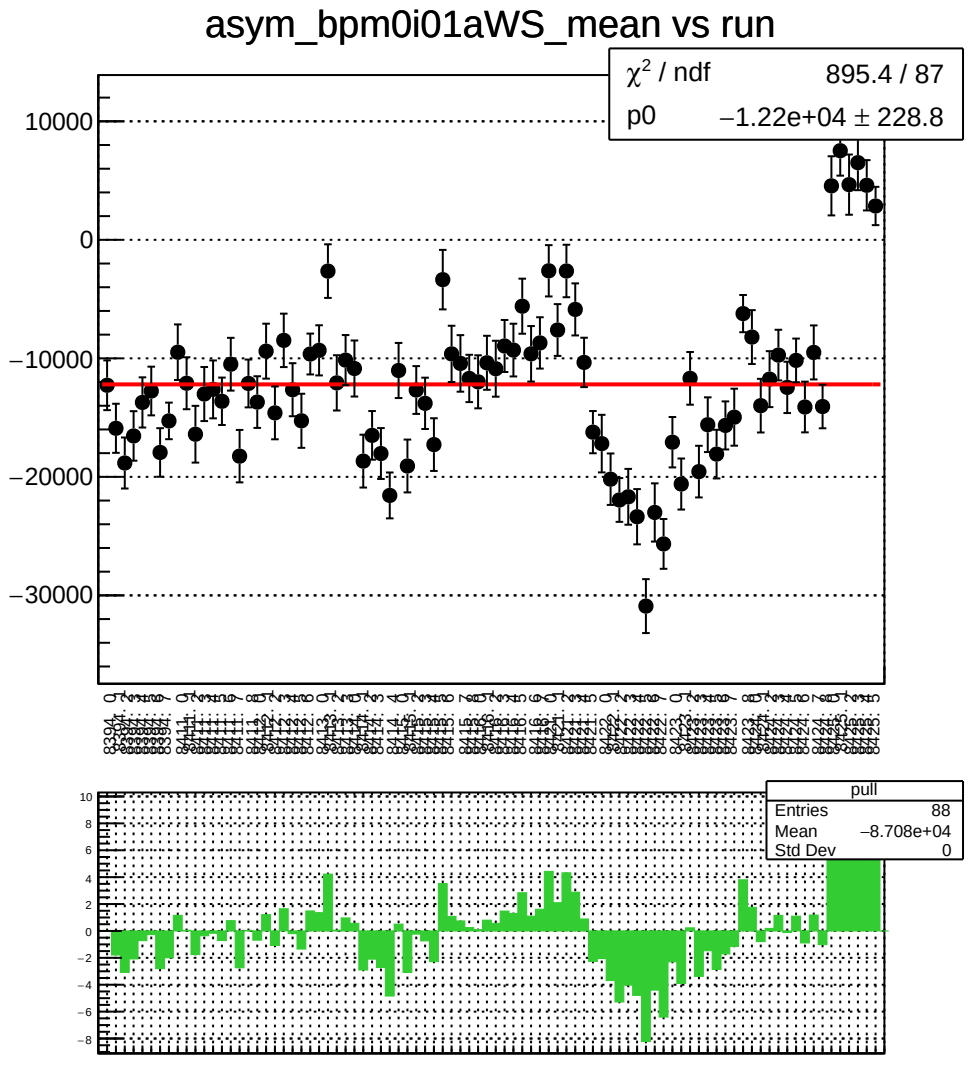

asym_bpm2i02WS_mean vs run
χ² / ndf 471 / 87
p0 −8885 ± 229.5
pull
Entries 88
Mean 1493
Std Dev 0
pull1D
Entries 88
Mean 0.01526
Std Dev 2.313

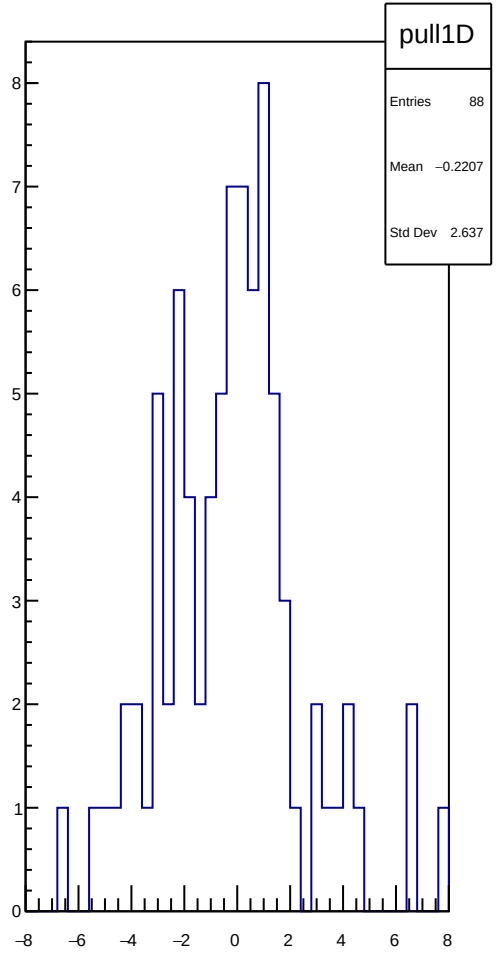

asym_bpm2i02WS_rms vs run
χ^2 / ndf 6627 / 87
p0 210.7 ± 0.1623
250
240
230
220
210
200
190
180
170

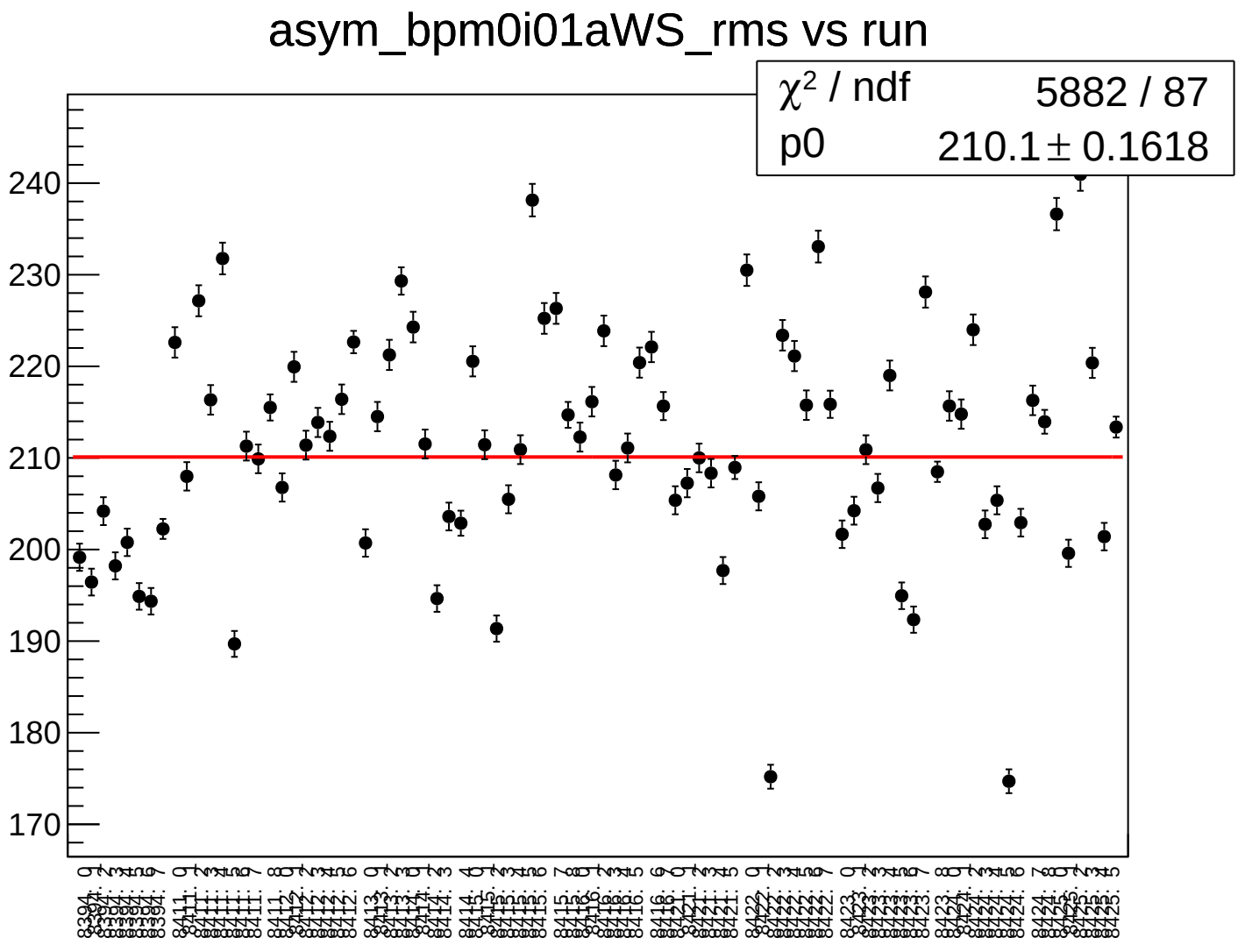

asym_bpm0i01WS_mean vs run
χ² / ndf 657.2 / 87
p0 −1.194e+04 ± 257.5
pull
Entries 88
Mean 2813
Std Dev 0

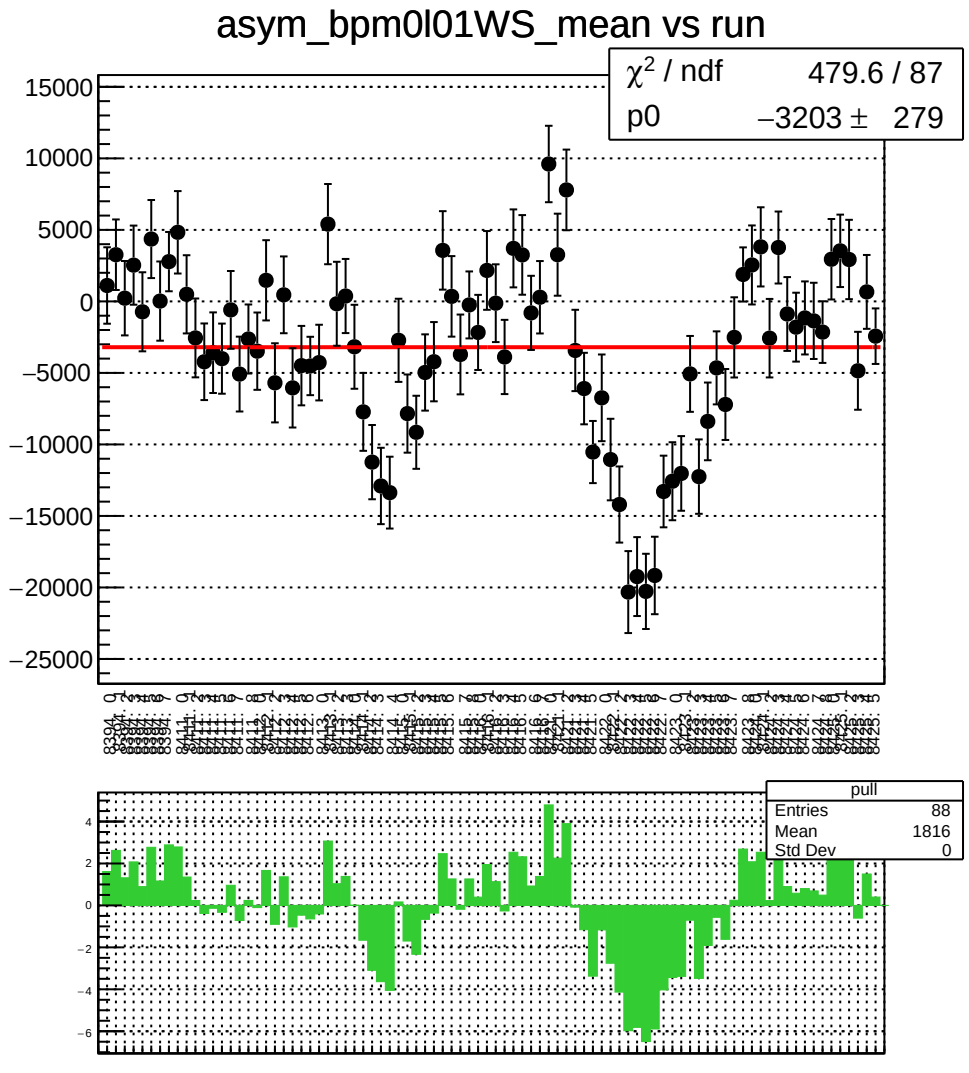

pull1D
Entries 88
Mean −0.1842
Std Dev 2.452

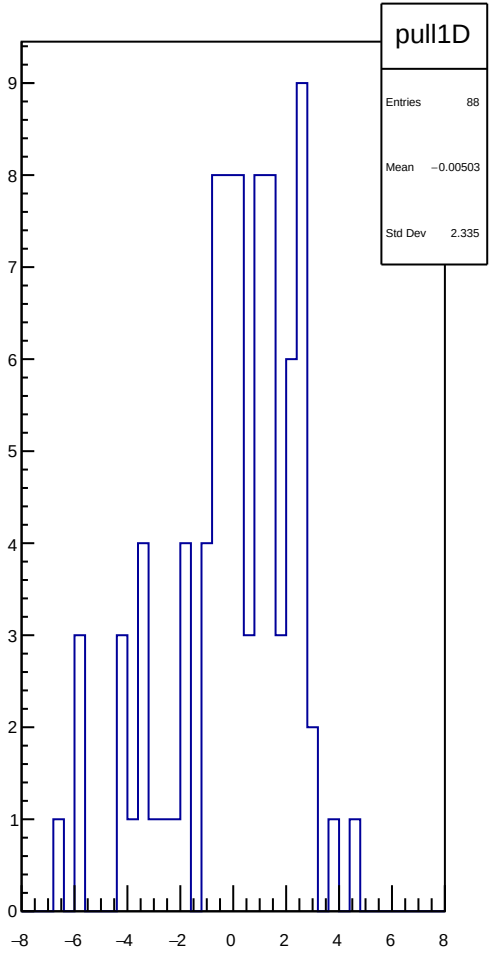

asym_bpm0i01WS_rms vs run
χ² / ndf 5804 / 87
p0 236.5 ± 0.1821
270
260
250
240
230
220
210
200
190

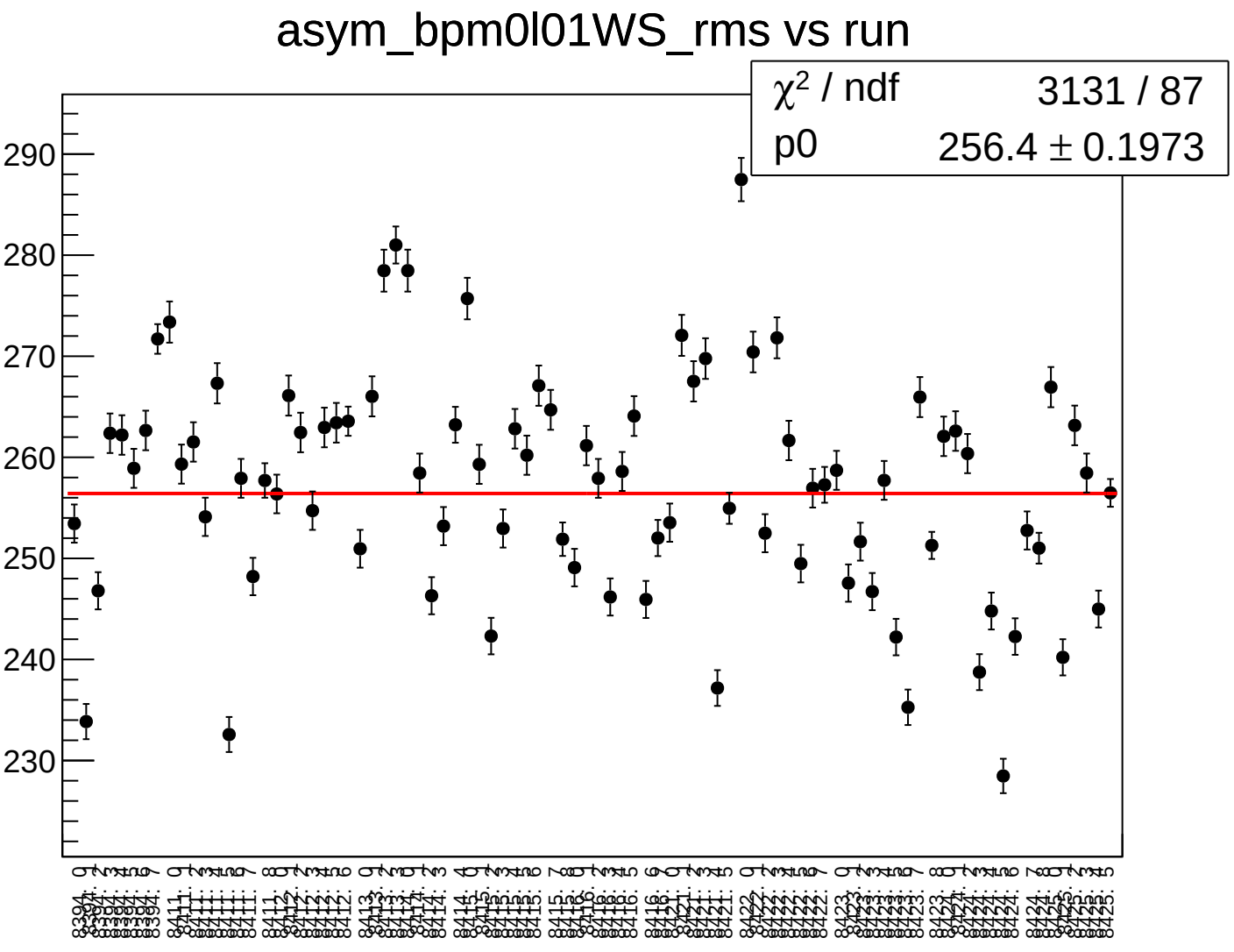

asym_bpm0i01aWS_mean vs run
χ² / ndf 895.4 / 87
p0 −1.22e+04 ± 228.8
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −8.708e+04
Std Dev 0
10
8
6
4
2
0
−2
−4
−6
−8

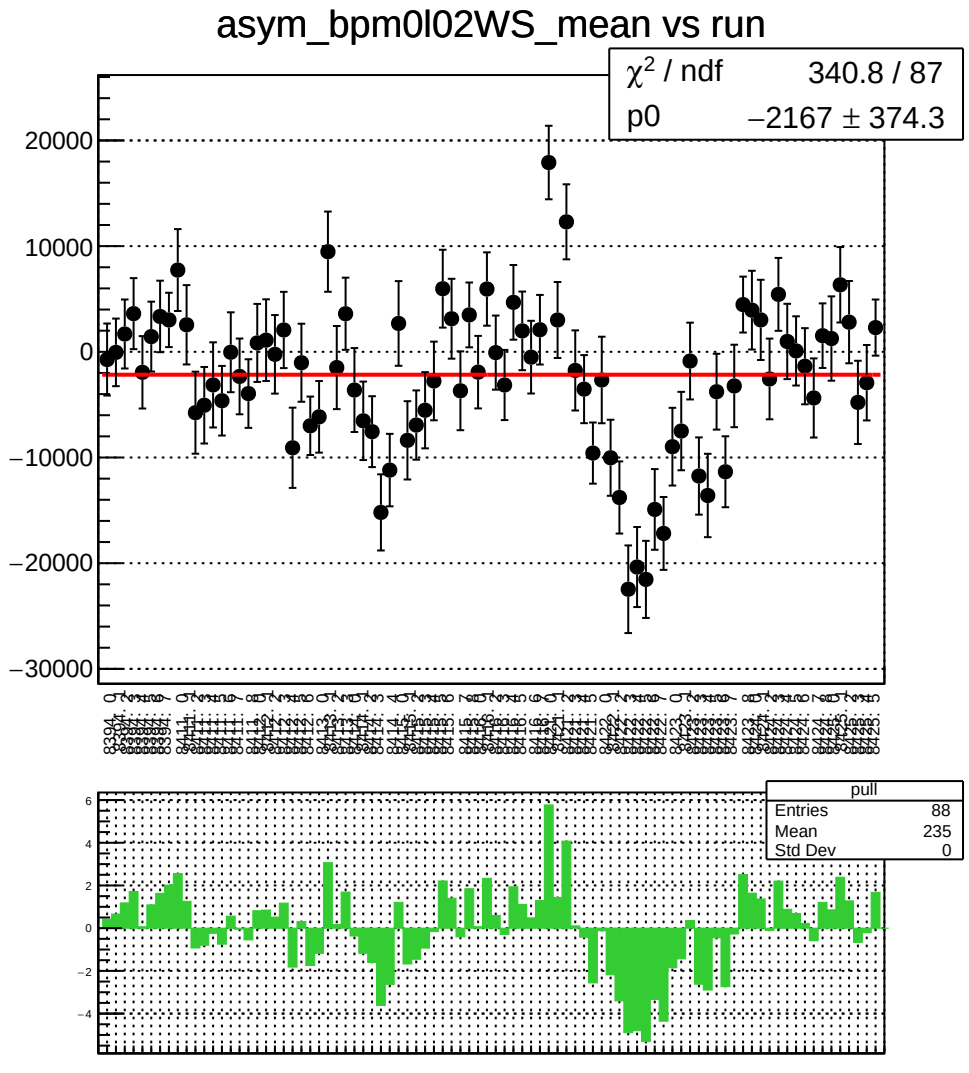

pull1D
Entries 88
Mean −0.2207
Std Dev 2.637
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

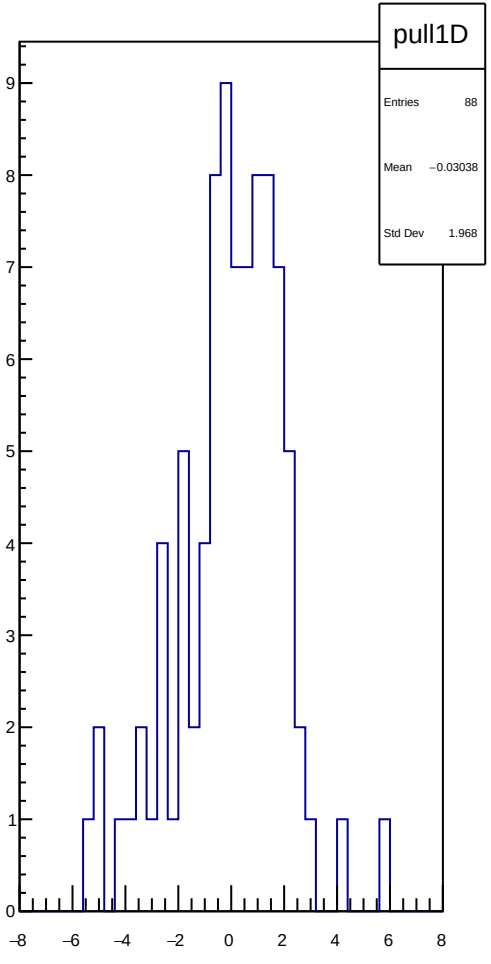

asym_bpm0i01aWS_rms vs run
χ² / ndf 5882 / 87
p0 210.1 ± 0.1618
240
230
220
210
200
190
180
170

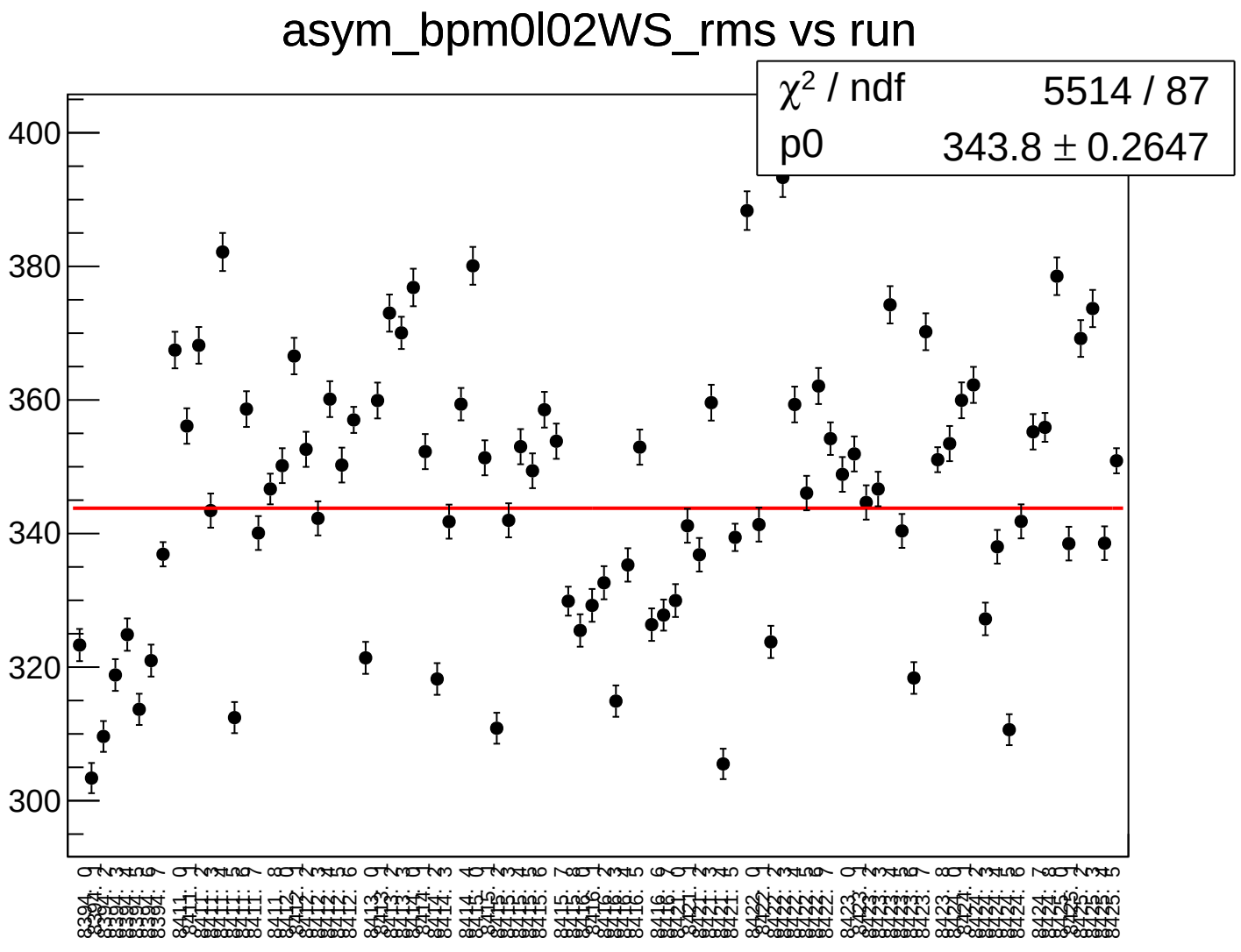

asym_bpm0l01WS_mean vs run
χ² / ndf 479.6 / 87
p0 −3203 ± 279
pull
Entries 88
Mean 1816
Std Dev 0

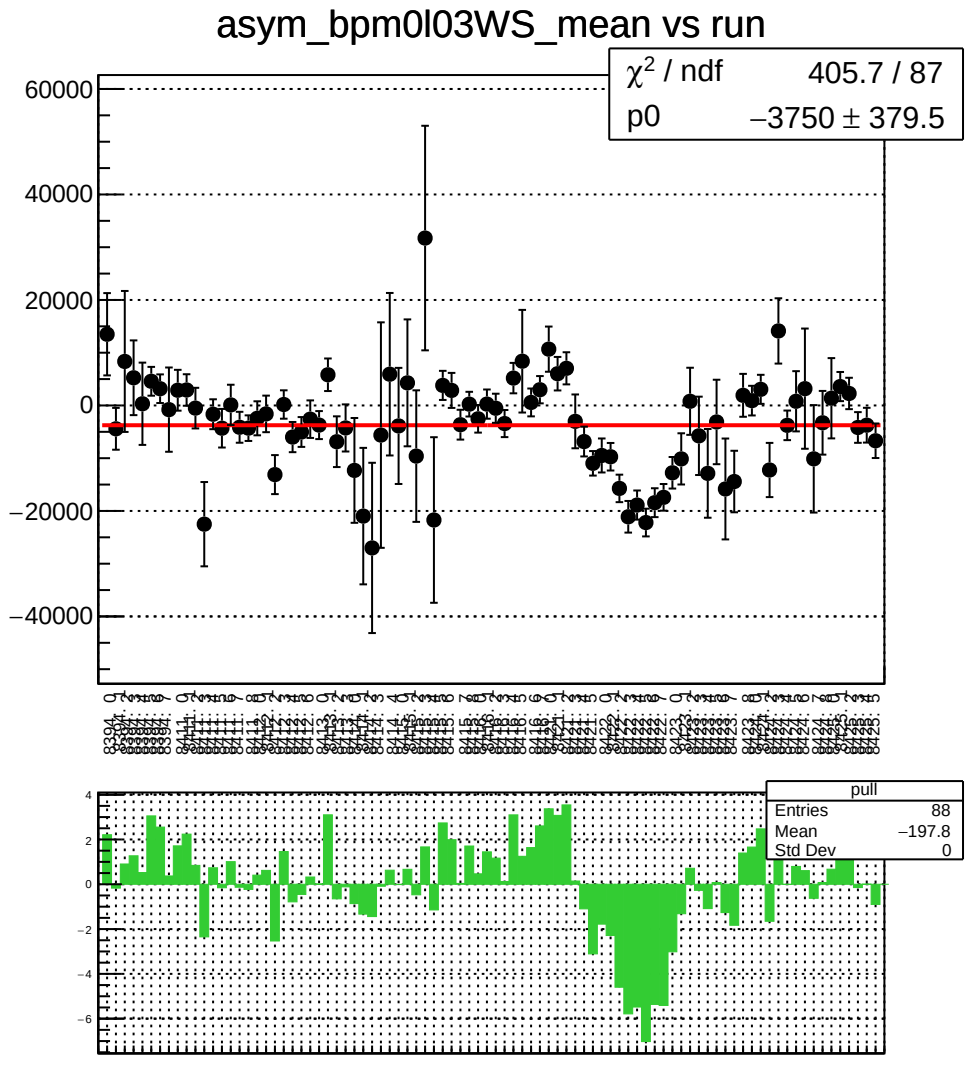

pull1D
Entries 88
Mean −0.00503
Std Dev 2.335

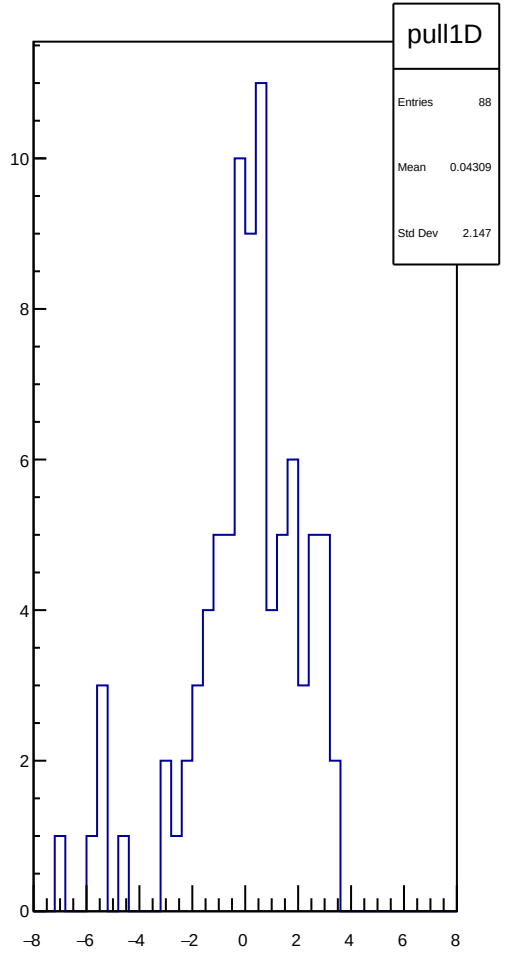

asym_bpm0l01WS_rms vs run
χ² / ndf 3131 / 87
p0 256.4 ± 0.1973
290
280
270
260
250
240
230

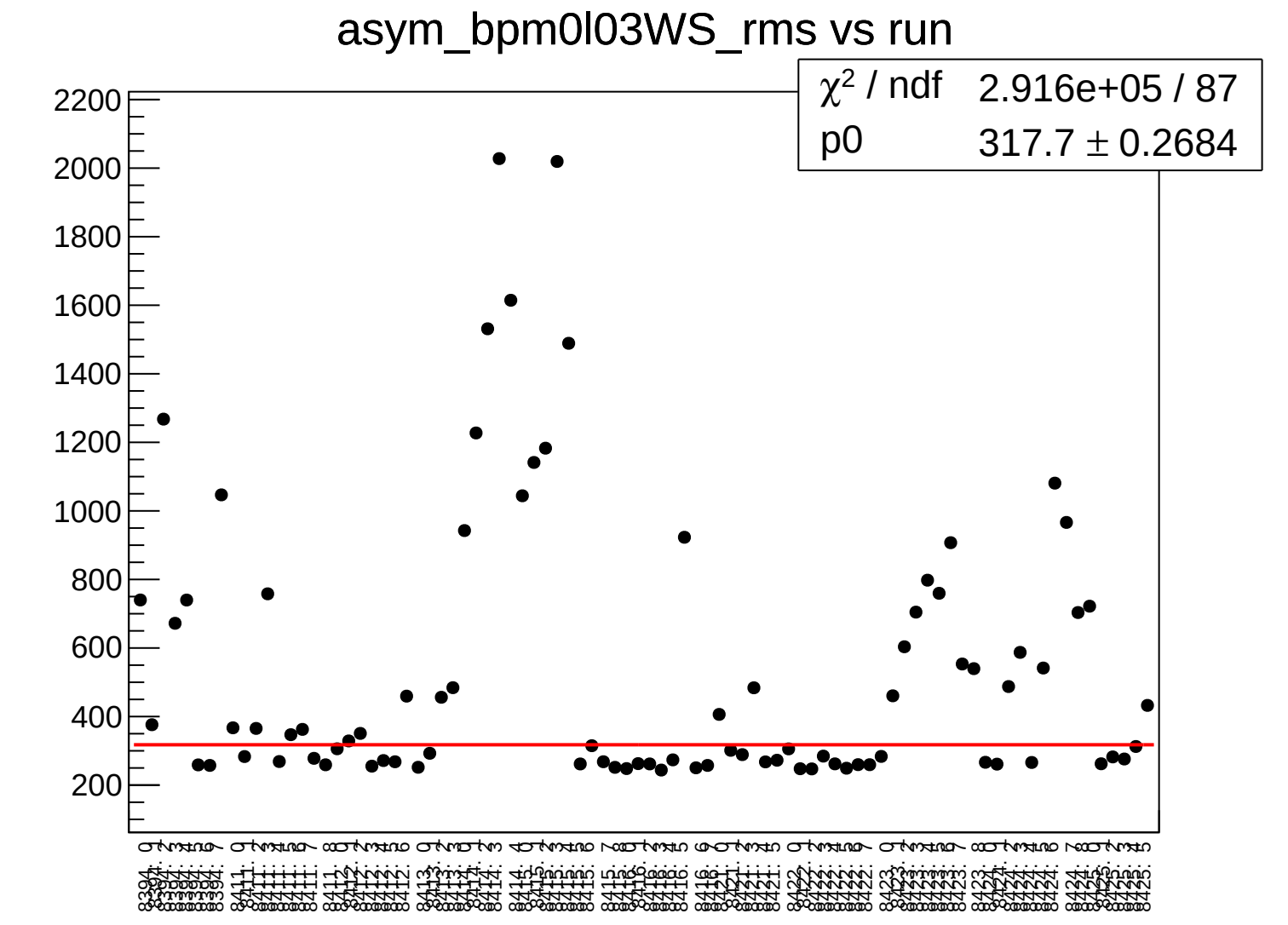

asym_bpm0l02WS_mean vs run
χ² / ndf 340.8 / 87
p0 −2167 ± 374.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 235
Std Dev 0
6
4
2
0
−2
−4

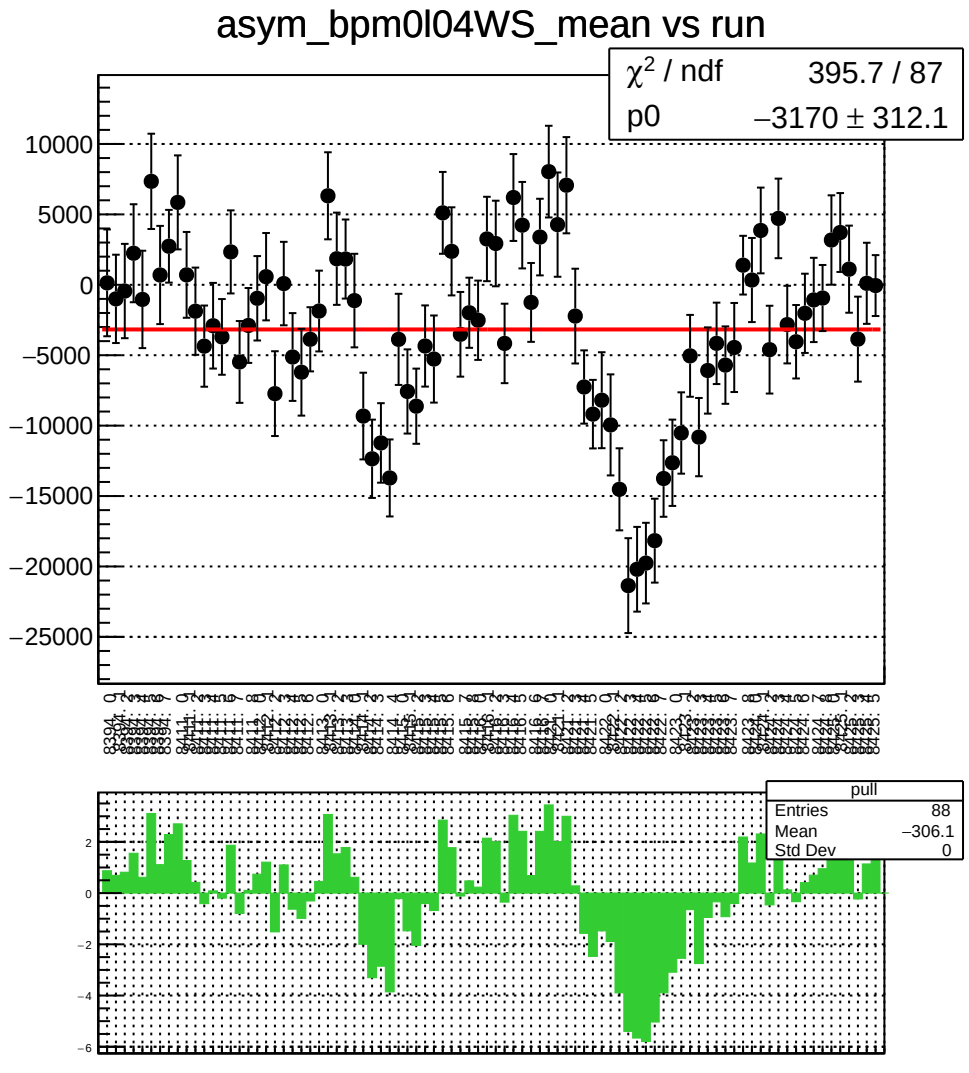

pull1D
Entries 88
Mean −0.03038
Std Dev 1.968
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

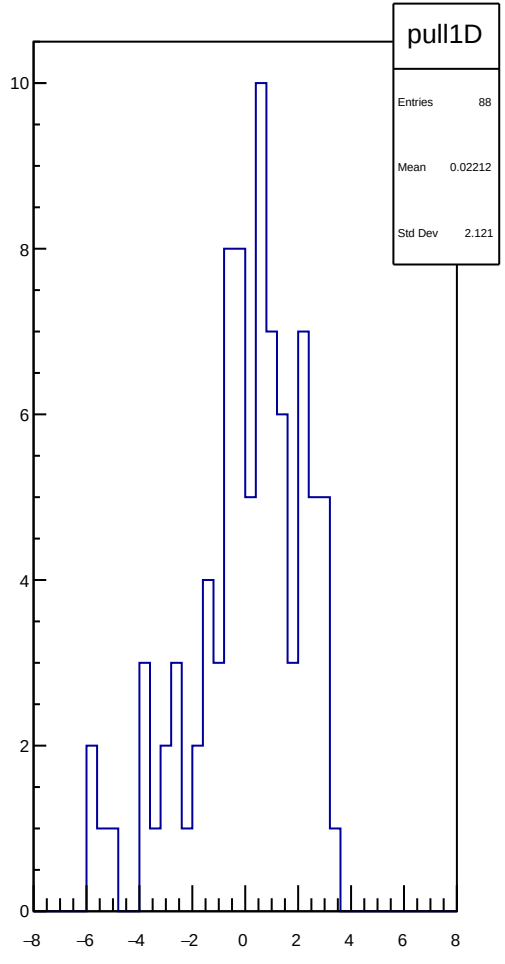

asym_bpm0l02WS_rms vs run
χ² / ndf 5514 / 87
p0 343.8 ± 0.2647
400
380
360
340
320
300

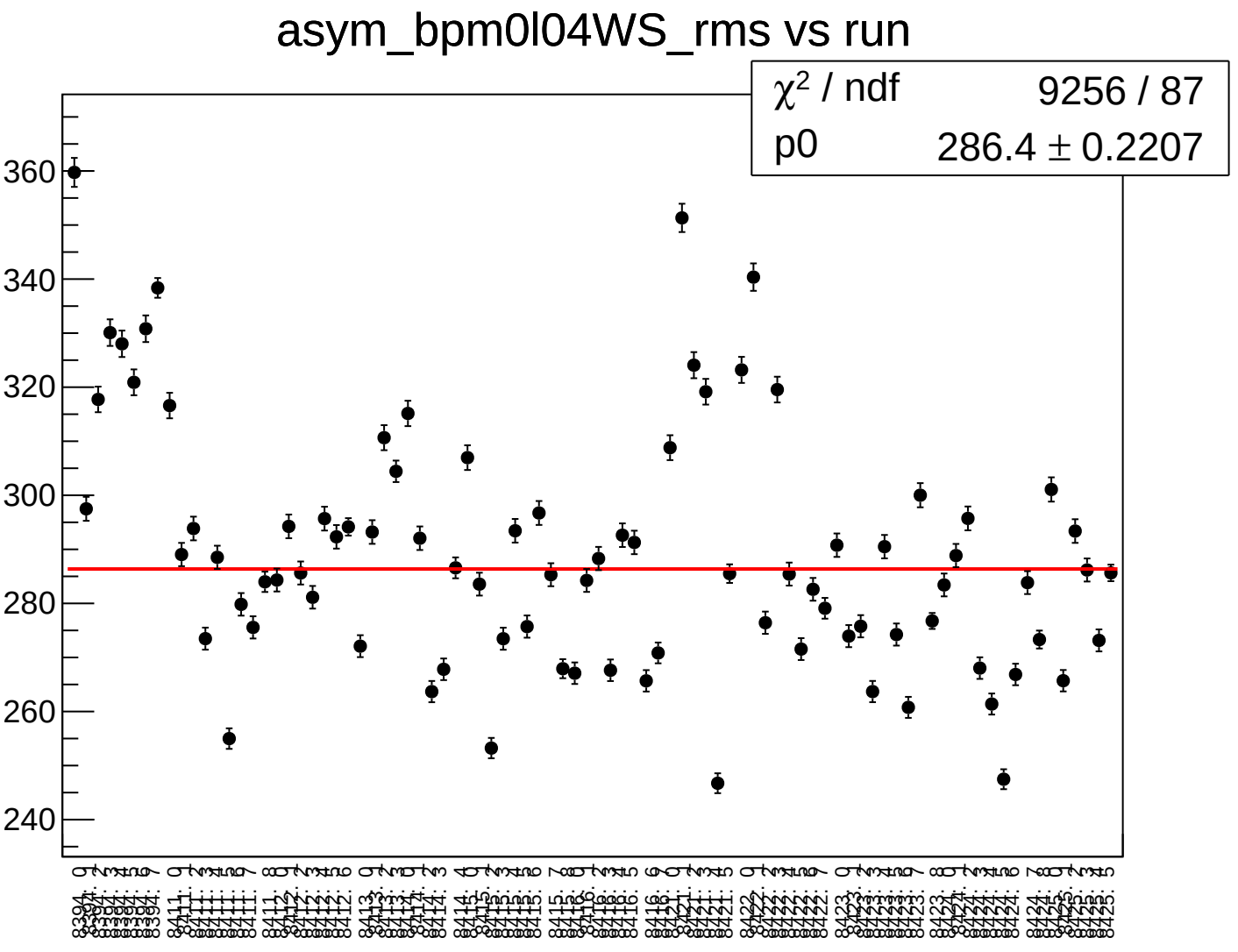

asym_bpm0l03WS_mean vs run
χ² / ndf 405.7 / 87
p0 −3750 ± 379.5
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −197.8
Std Dev 0
4
2
0
−2
−4
−6

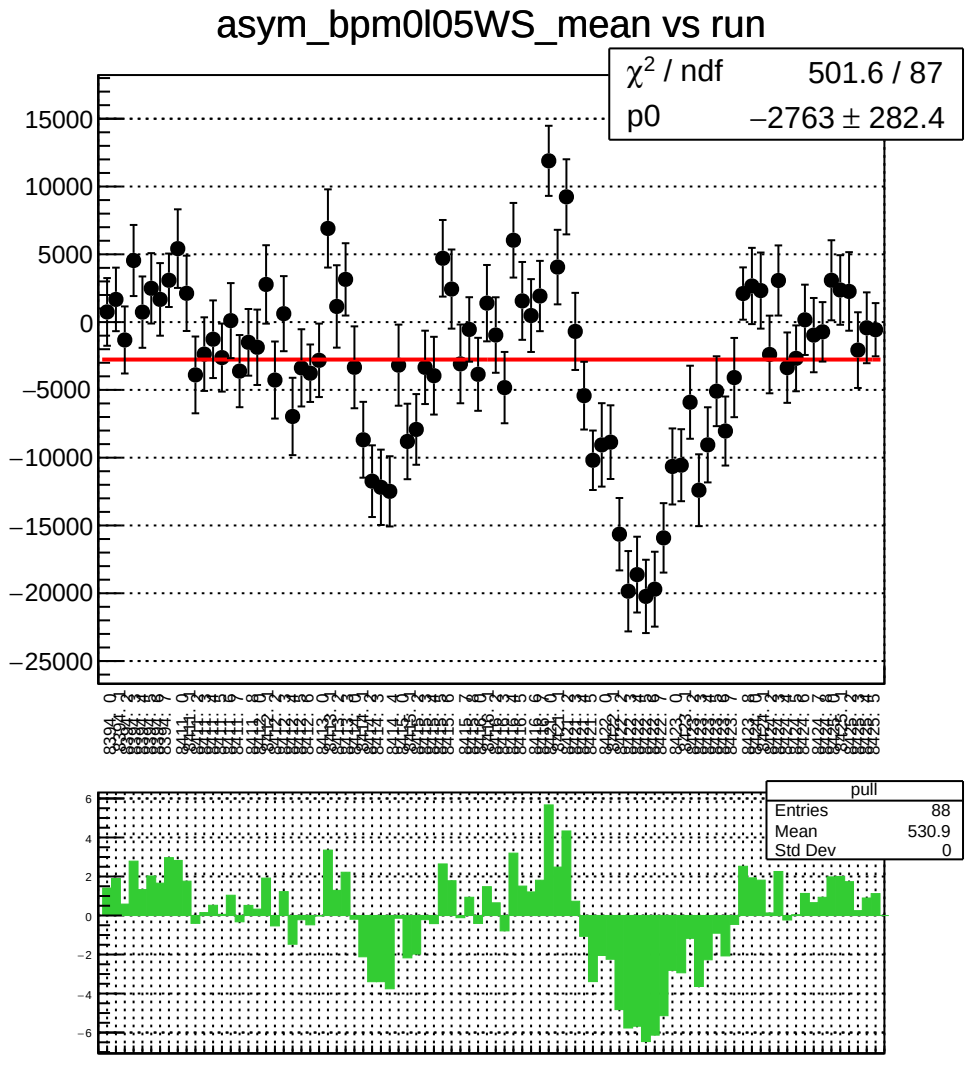

pull1D
Entries 88
Mean 0.04309
Std Dev 2.147
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

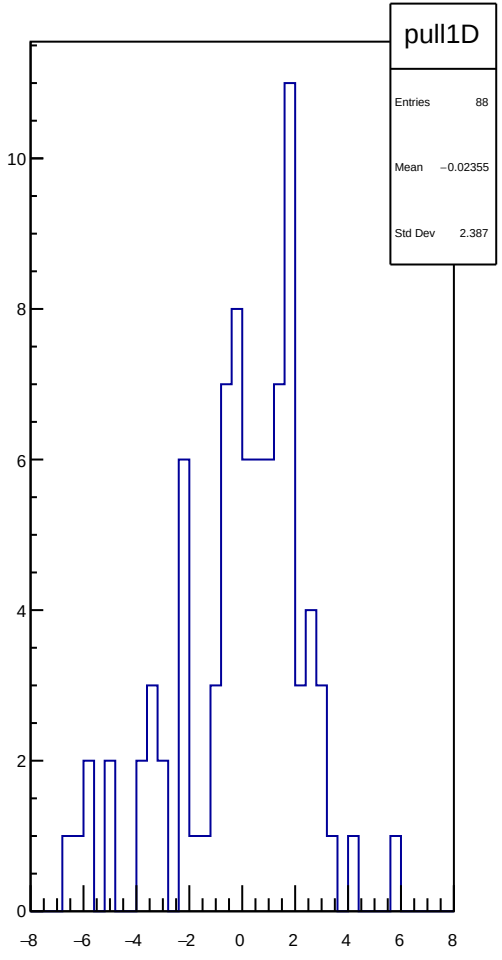

asym_bpm0l03WS_rms vs run
χ^2 / ndf 2.916e+05 / 87
p0 317.7 ± 0.2684
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

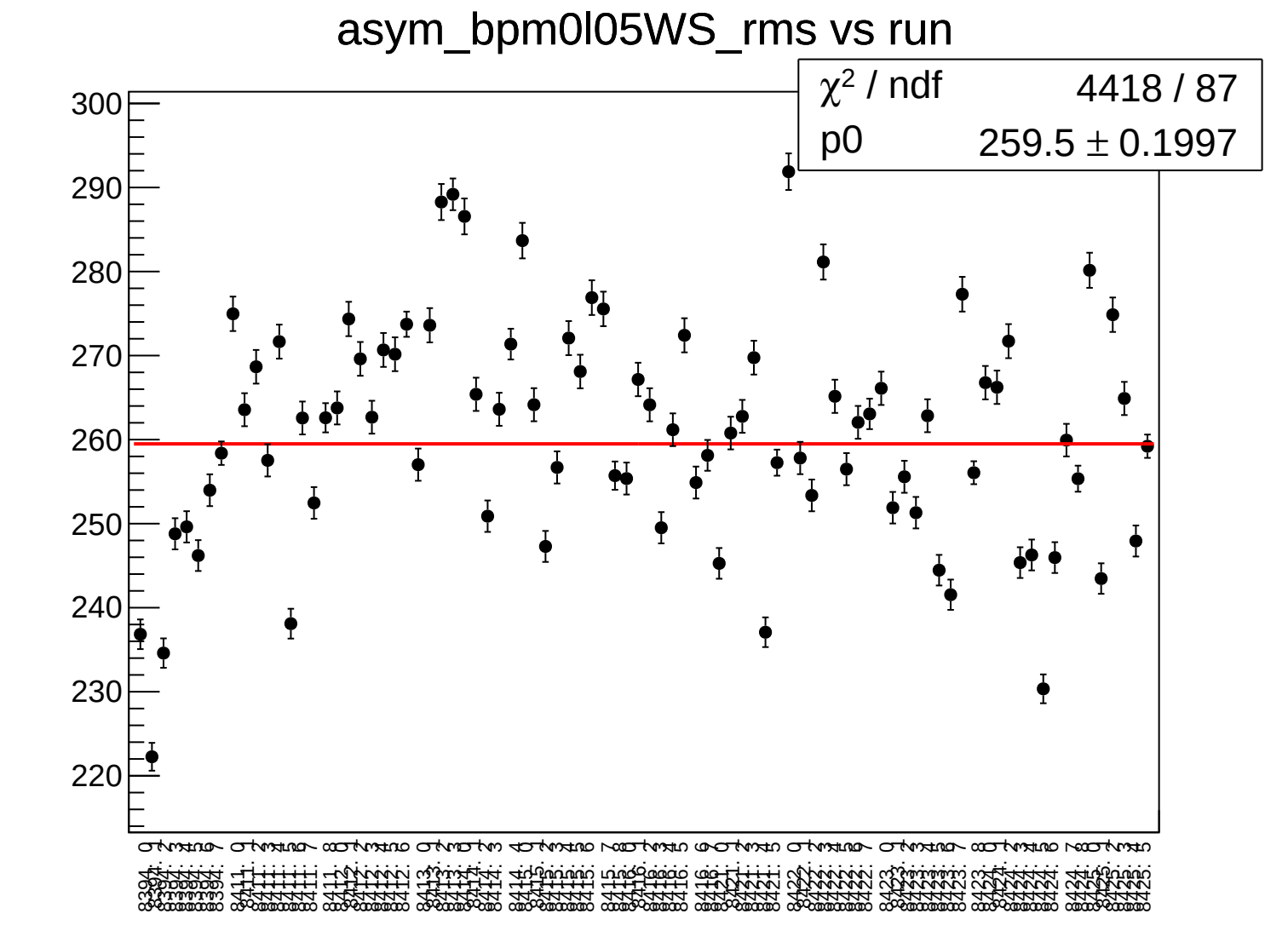

asym_bpm0l04WS_mean vs run
χ² / ndf 395.7 / 87
p0 −3170 ± 312.1
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 88
Mean −306.1
Std Dev 0
2
0
−2
−4
−6

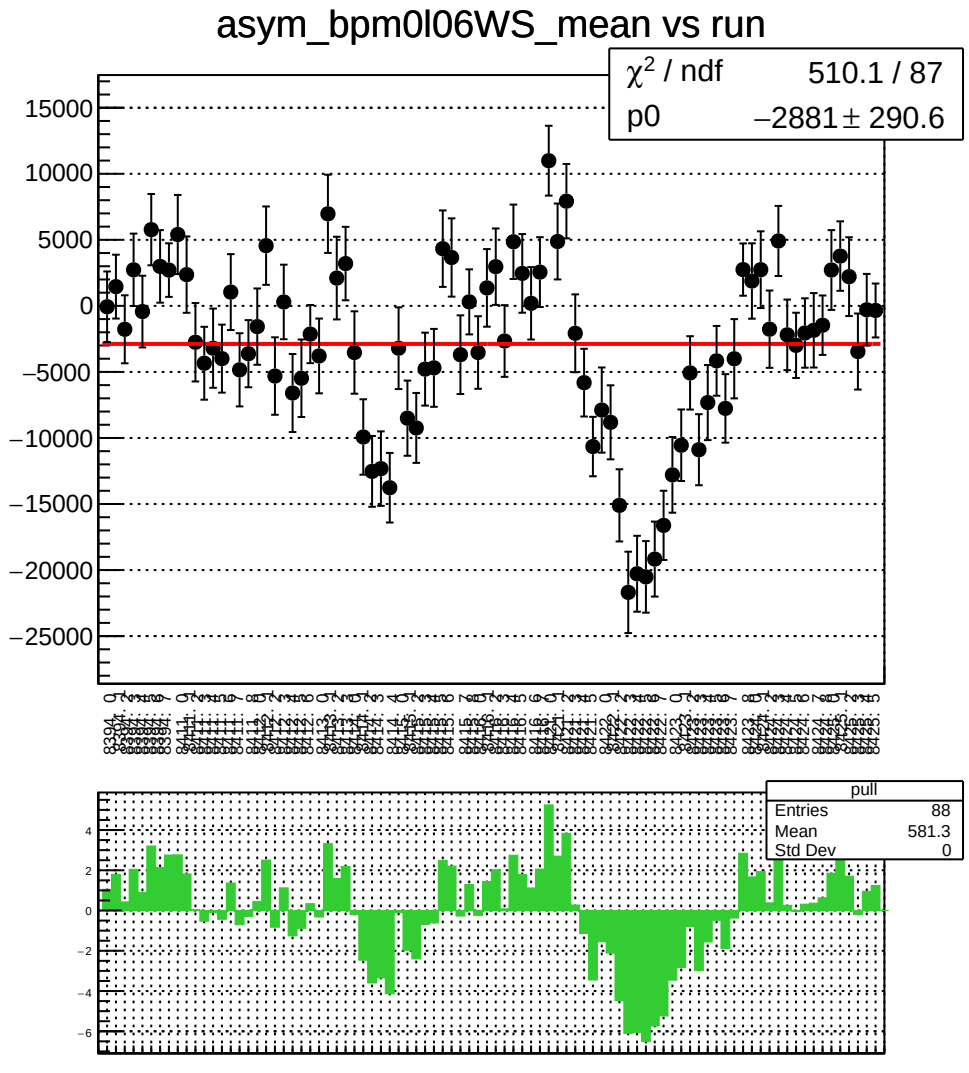

pull1D
Entries 88
Mean 0.02212
Std Dev 2.121
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

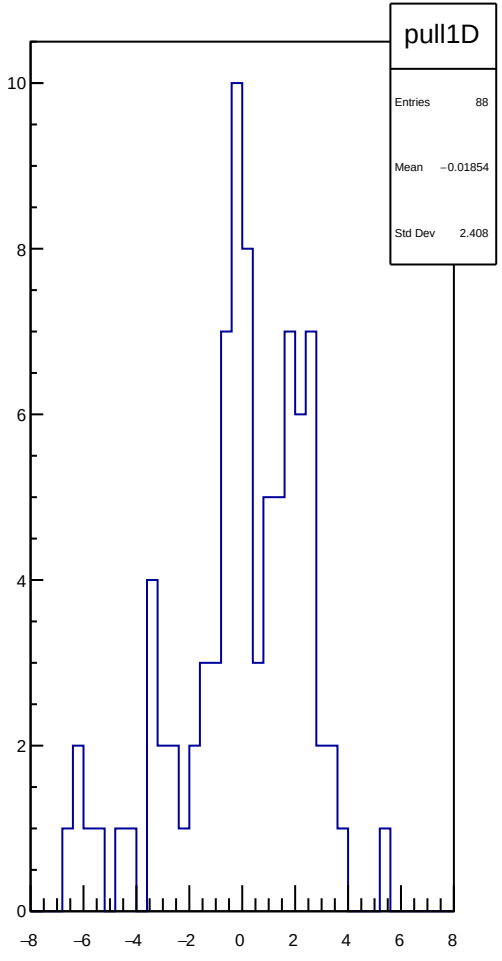

asym_bpm0l04WS_rms vs run
χ² / ndf 9256 / 87
p0 286.4 ± 0.2207
360
340
320
300
280
260
240

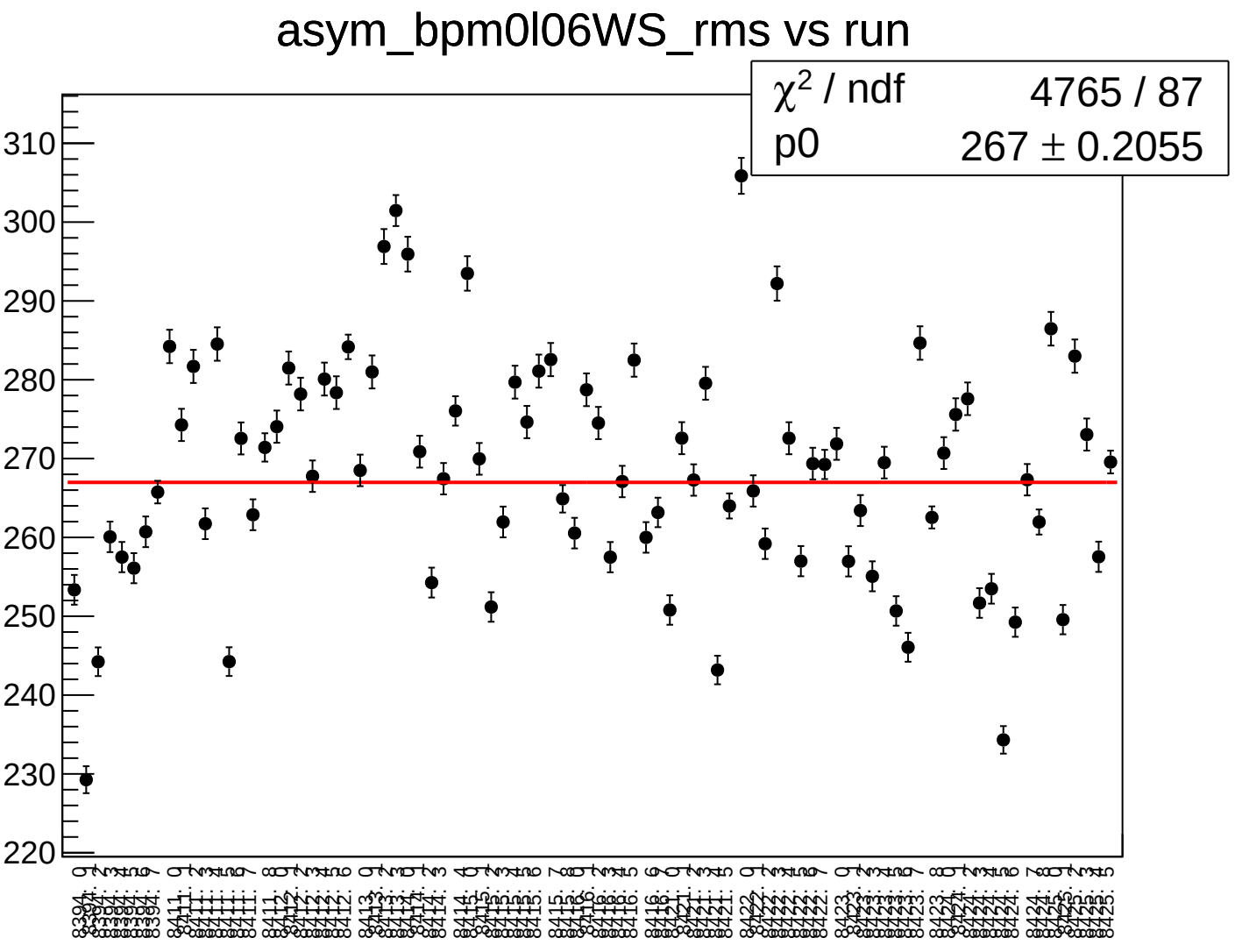

asym_bpm0l05WS_mean vs run
χ² / ndf 501.6 / 87
p0 −2763 ± 282.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 88
Mean 530.9
Std Dev 0
6
4
2
0
−2
−4
−6

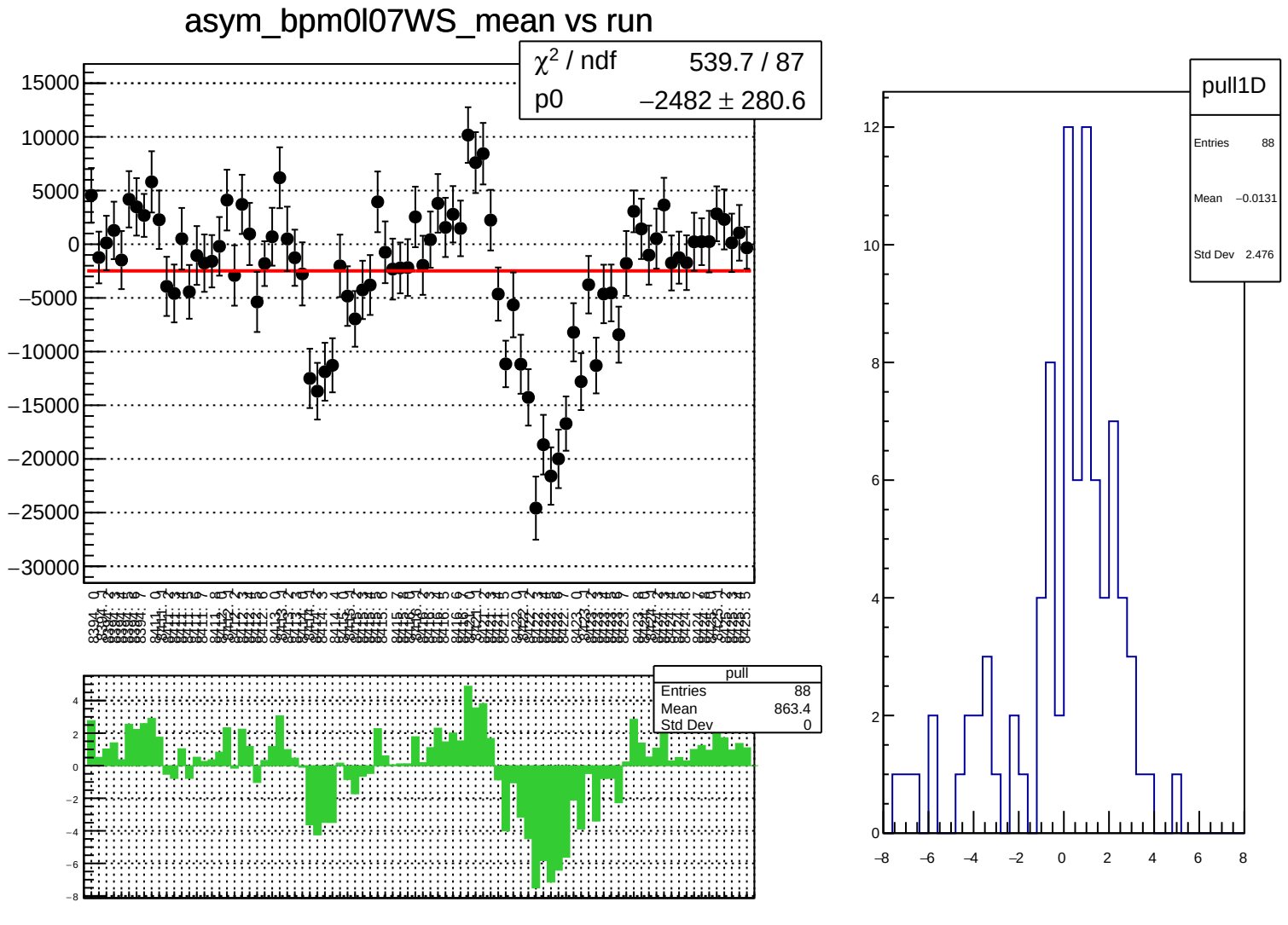

pull1D
Entries 88
Mean −0.02355
Std Dev 2.387
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

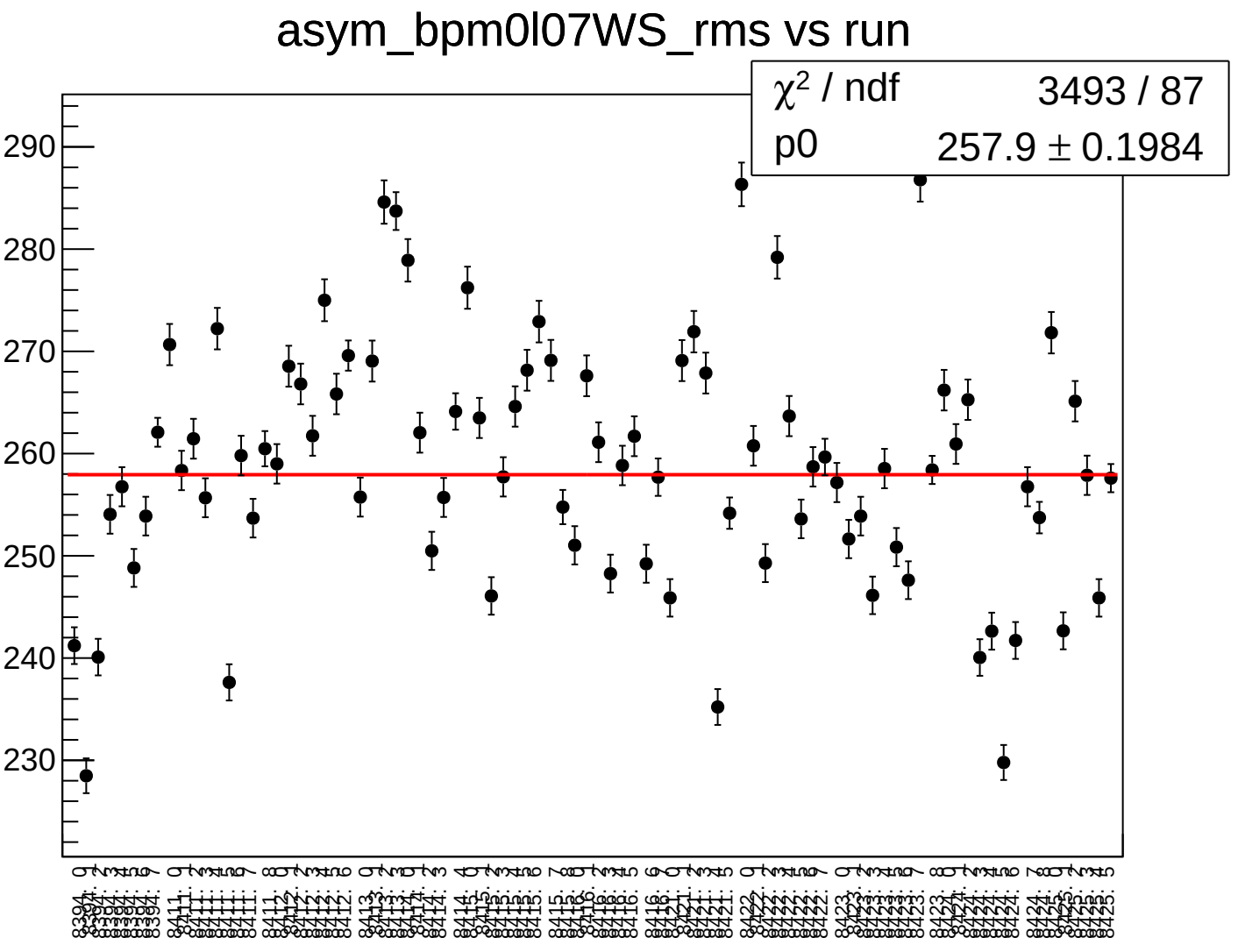

asym_bpm0l05WS_rms vs run
χ² / ndf 4418 / 87
p0 259.5 ± 0.1997
300
290
280
270
260
250
240
230
220

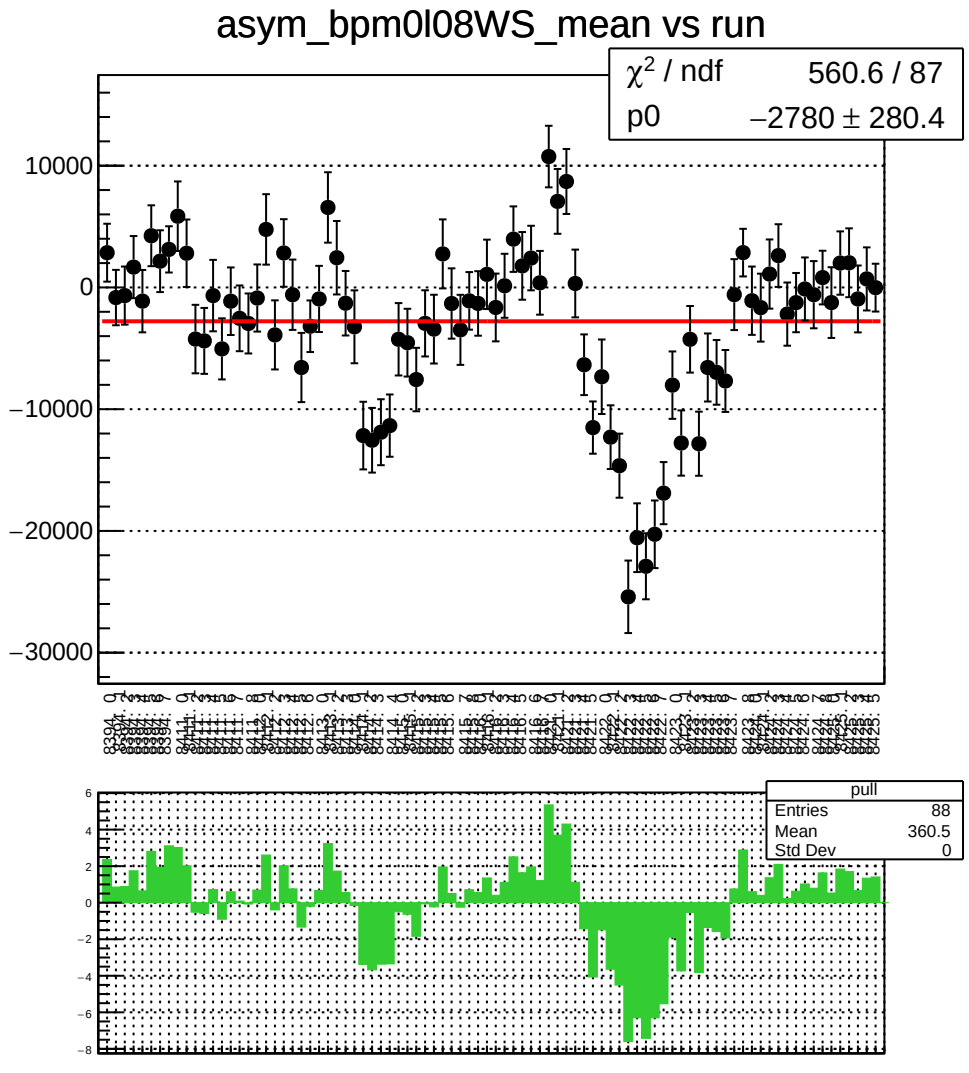

asym_bpm0l06WS_mean vs run
χ² / ndf 510.1 / 87
p0 −2881 ± 290.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 88
Mean 581.3
Std Dev 0
4
2
0
−2
−4
−6

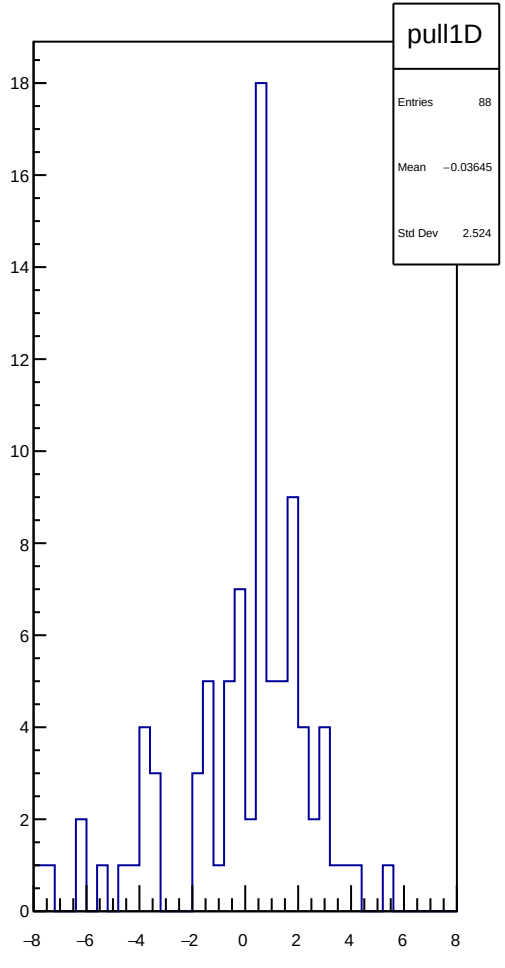

pull1D
Entries 88
Mean −0.01854
Std Dev 2.408
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

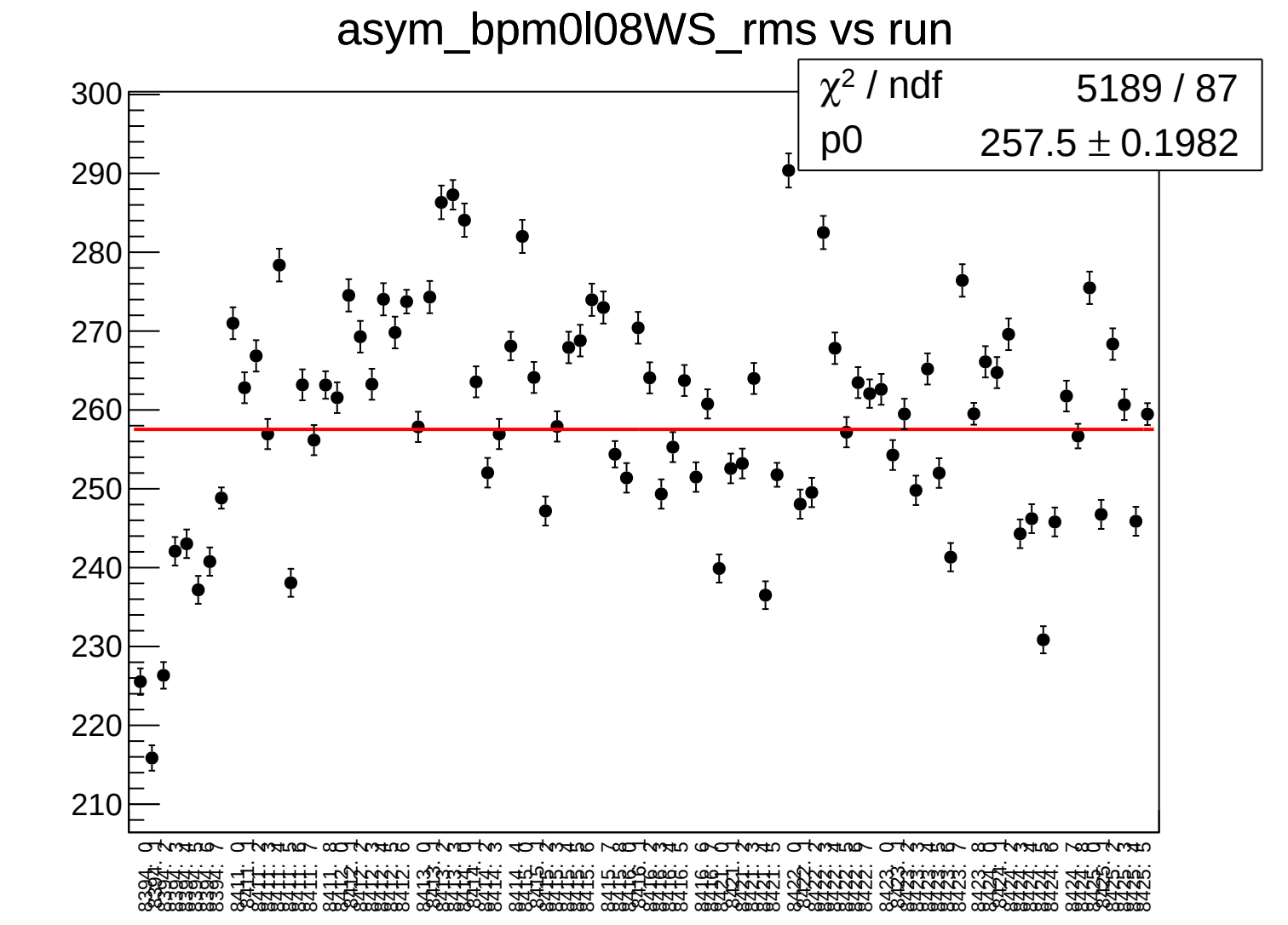

asym_bpm0l06WS_rms vs run
χ² / ndf 4765 / 87
p0 267 ± 0.2055
310
300
290
280
270
260
250
240
230
220

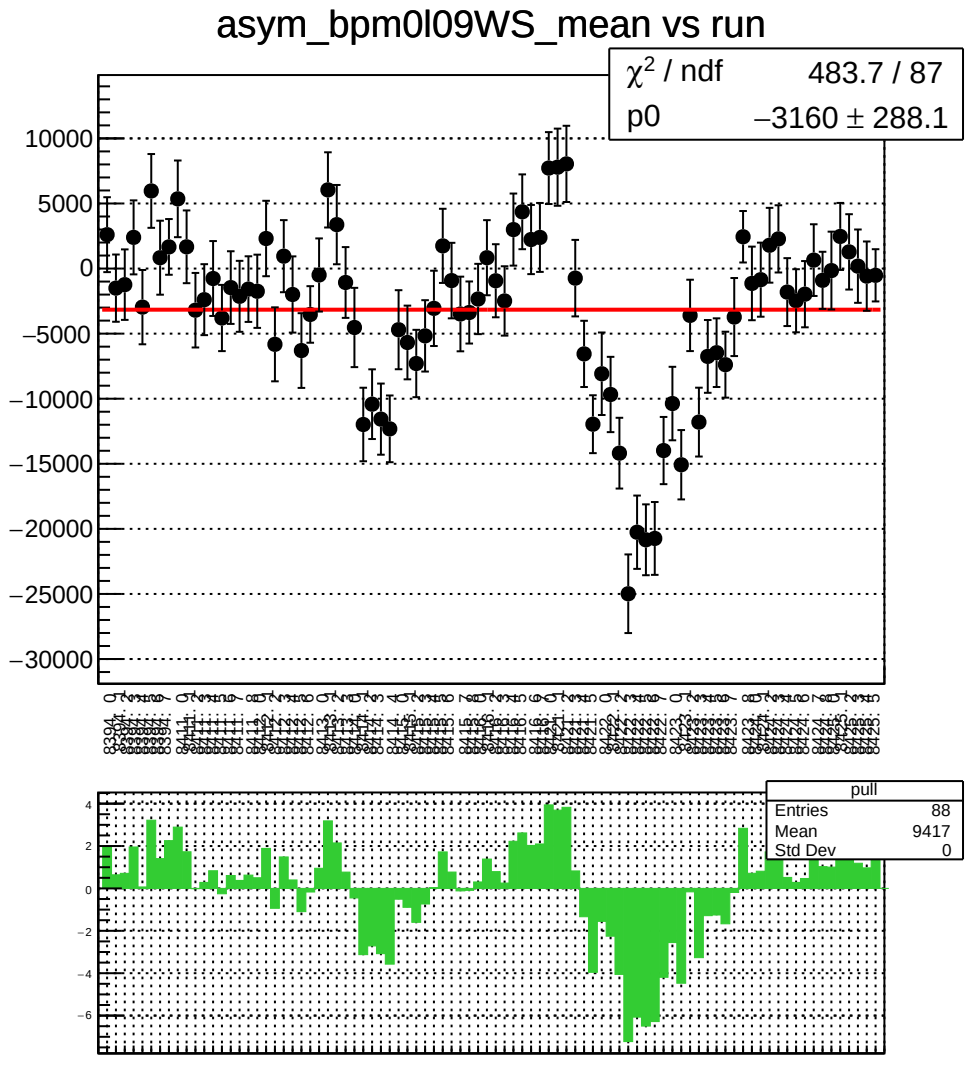

asym_bpm0l07WS_mean vs run
χ² / ndf 539.7 / 87
p0 −2482 ± 280.6
pull
Entries 88
Mean 863.4
Std Dev 0
pull1D
Entries 88
Mean −0.0131
Std Dev 2.476

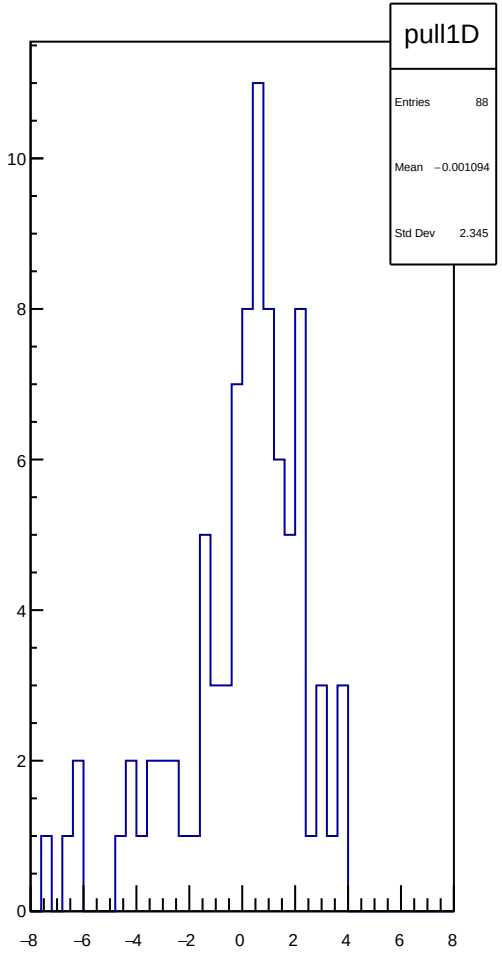

asym_bpm0l07WS_rms vs run
χ² / ndf 3493 / 87
p0 257.9 ± 0.1984
290
280
270
260
250
240
230

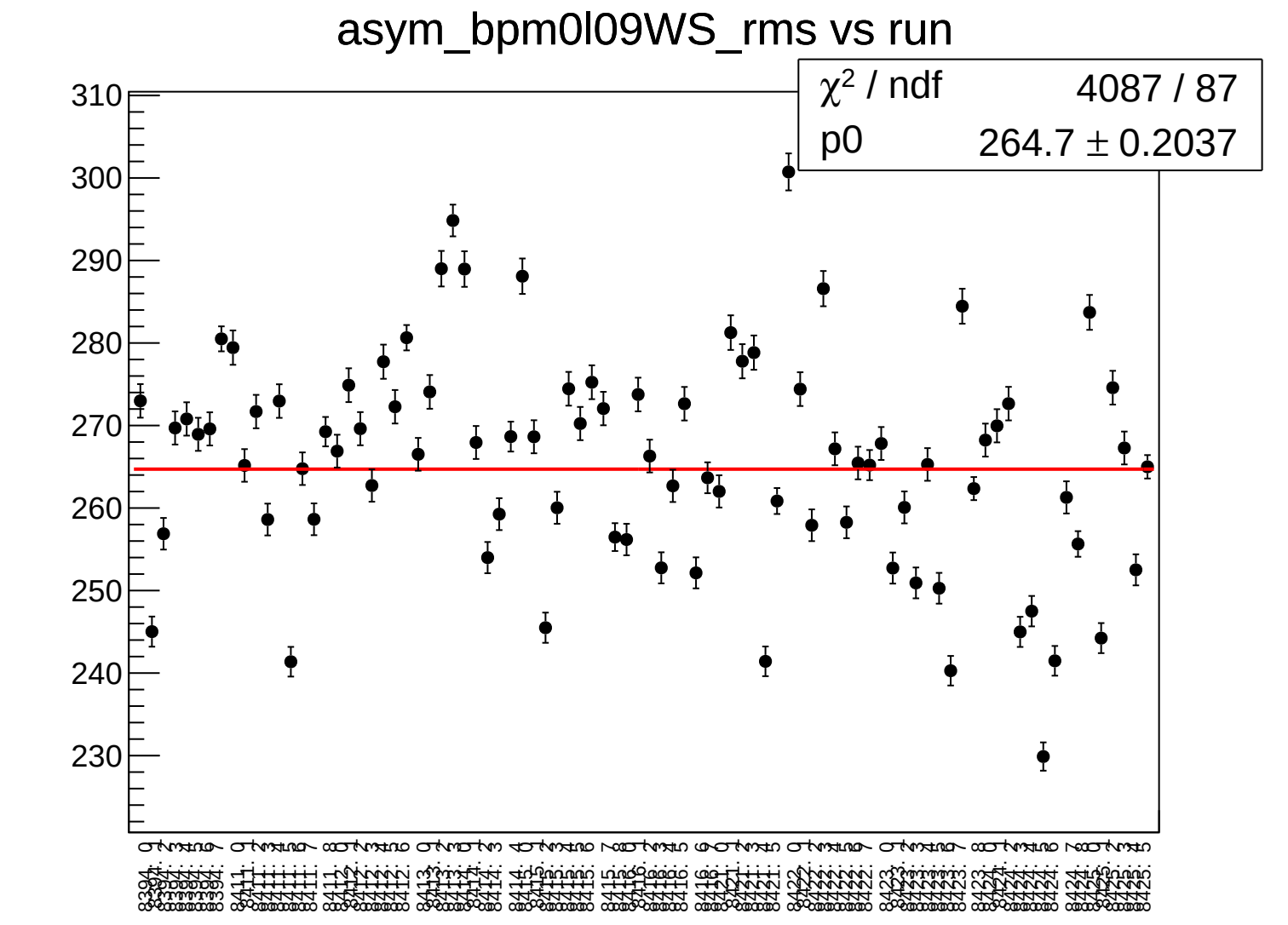

asym_bpm0l08WS_mean vs run
χ² / ndf 560.6 / 87
p0 −2780 ± 280.4
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 360.5
Std Dev 0
6
4
2
0
−2
−4
−6
−8

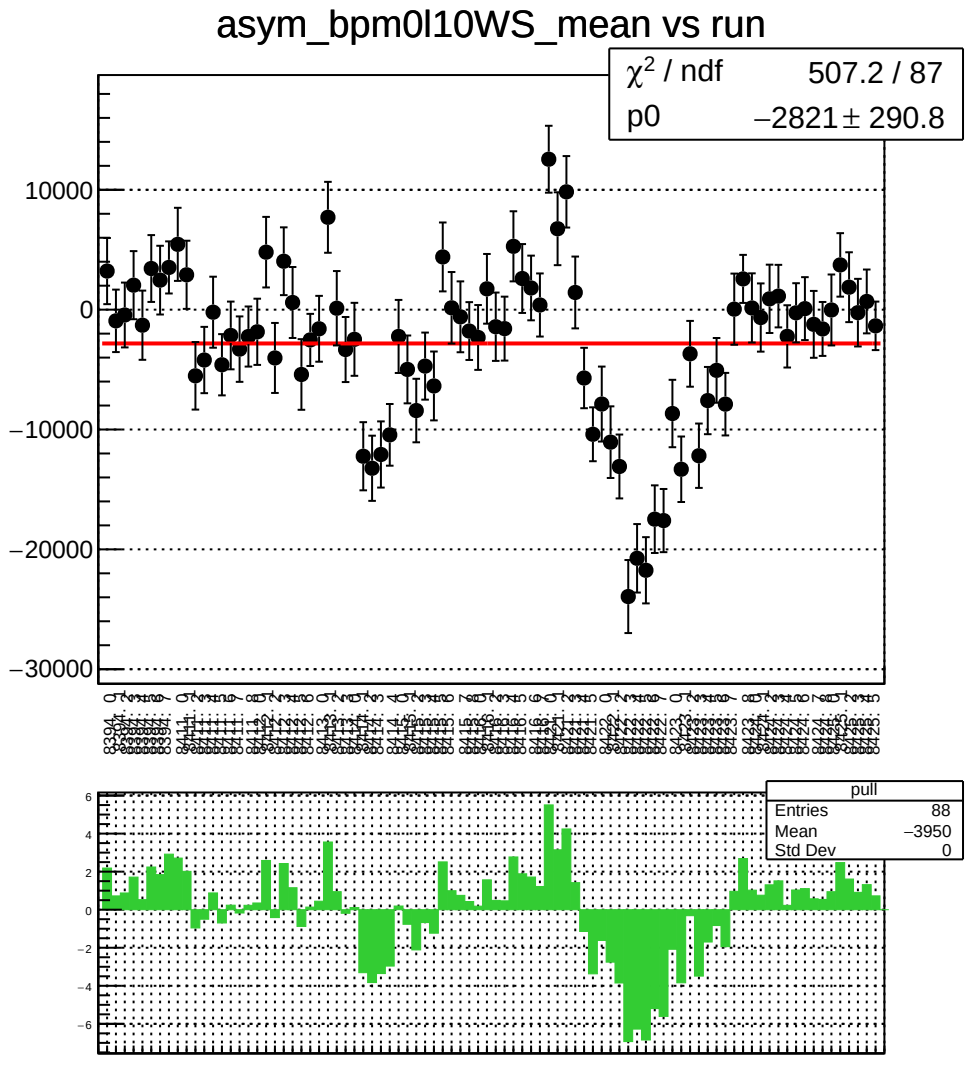

pull1D
Entries 88
Mean −0.03645
Std Dev 2.524
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

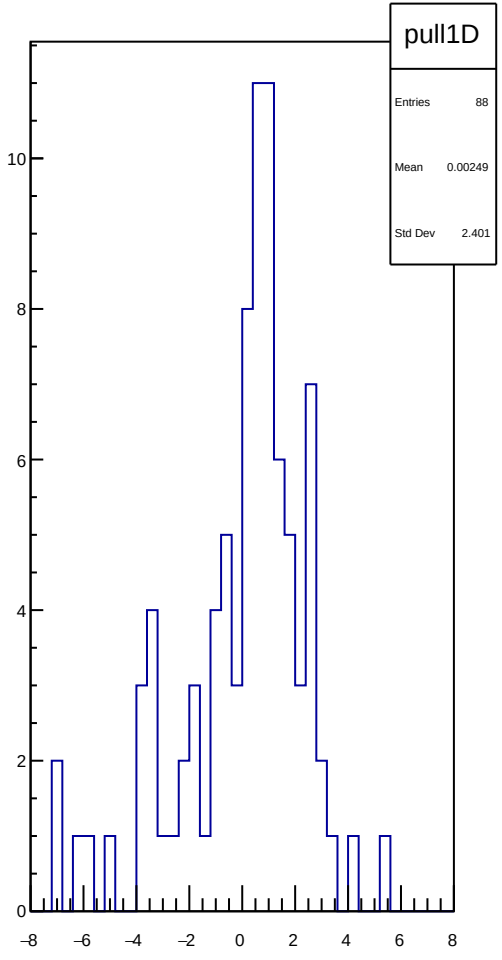

asym_bpm0l08WS_rms vs run
χ^2 / ndf 5189 / 87
p0 257.5 ± 0.1982
300
290
280
270
260
250
240
230
220
210

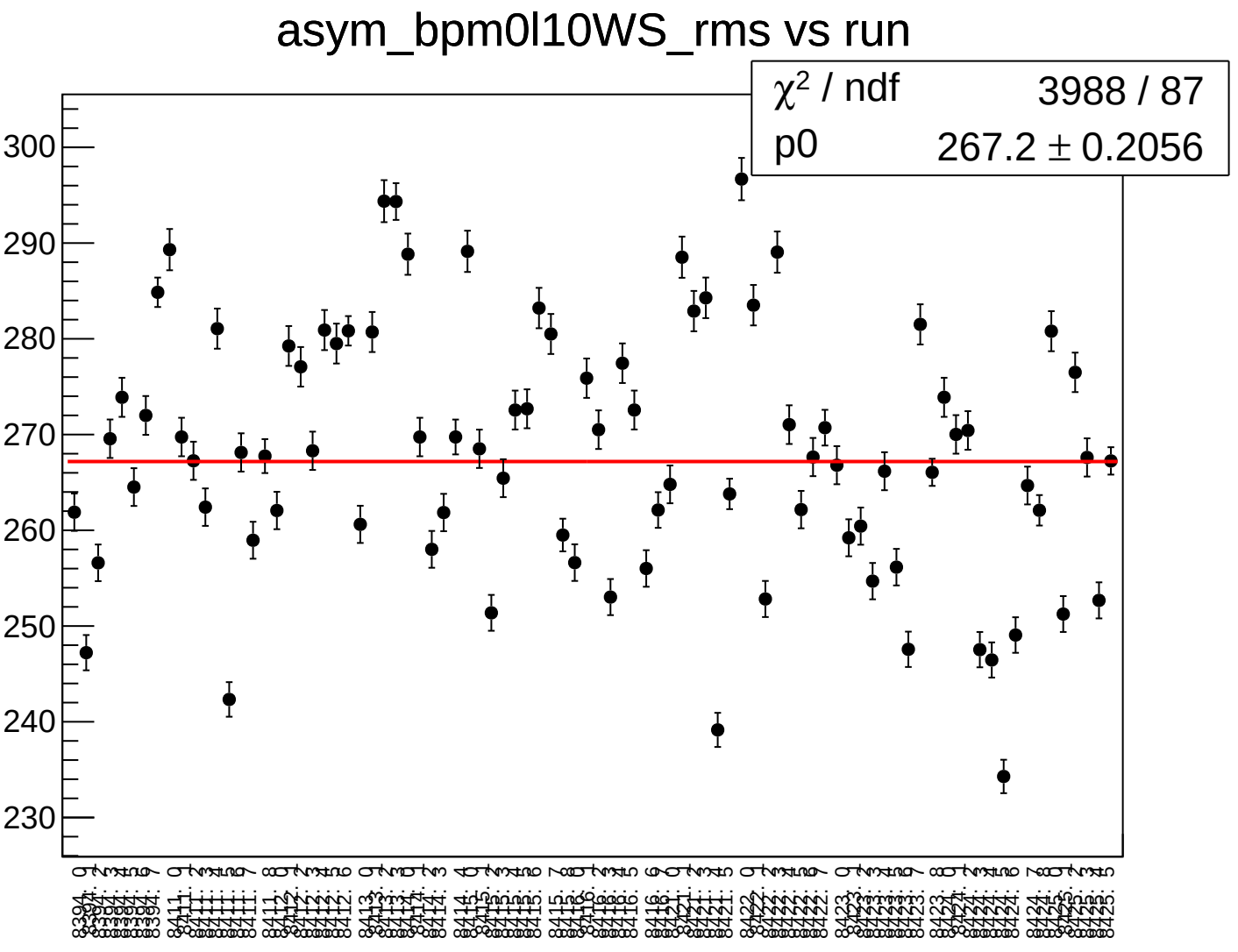

asym_bpm0l09WS_mean vs run
χ² / ndf 483.7 / 87
p0 −3160 ± 288.1
10000
5000
0
−5000
−10000
−15000
−20000
−25000
−30000
pull
Entries 88
Mean 9417
Std Dev 0
4
2
0
−2
−4
−6

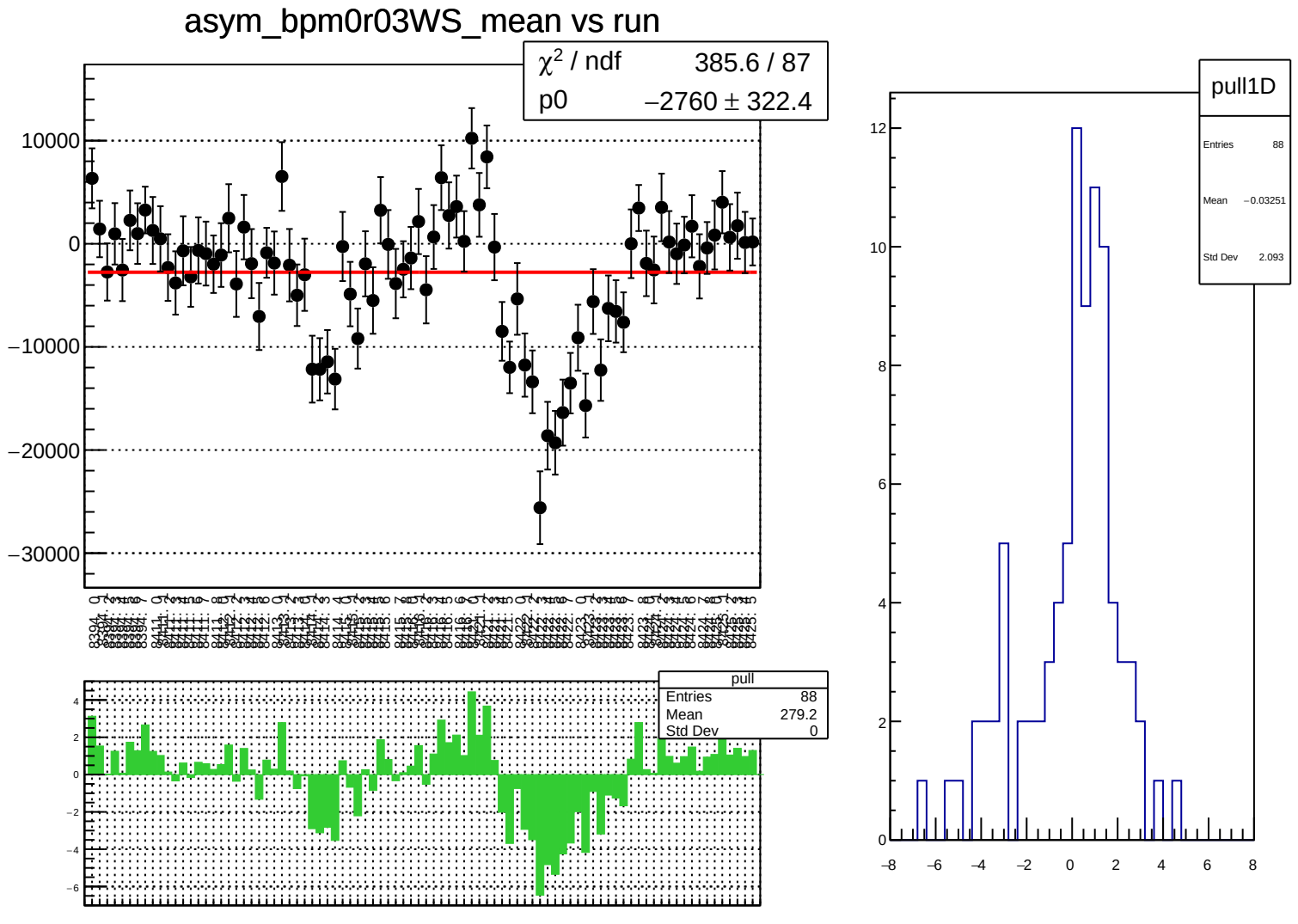

pull1D
Entries 88
Mean −0.001094
Std Dev 2.345
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

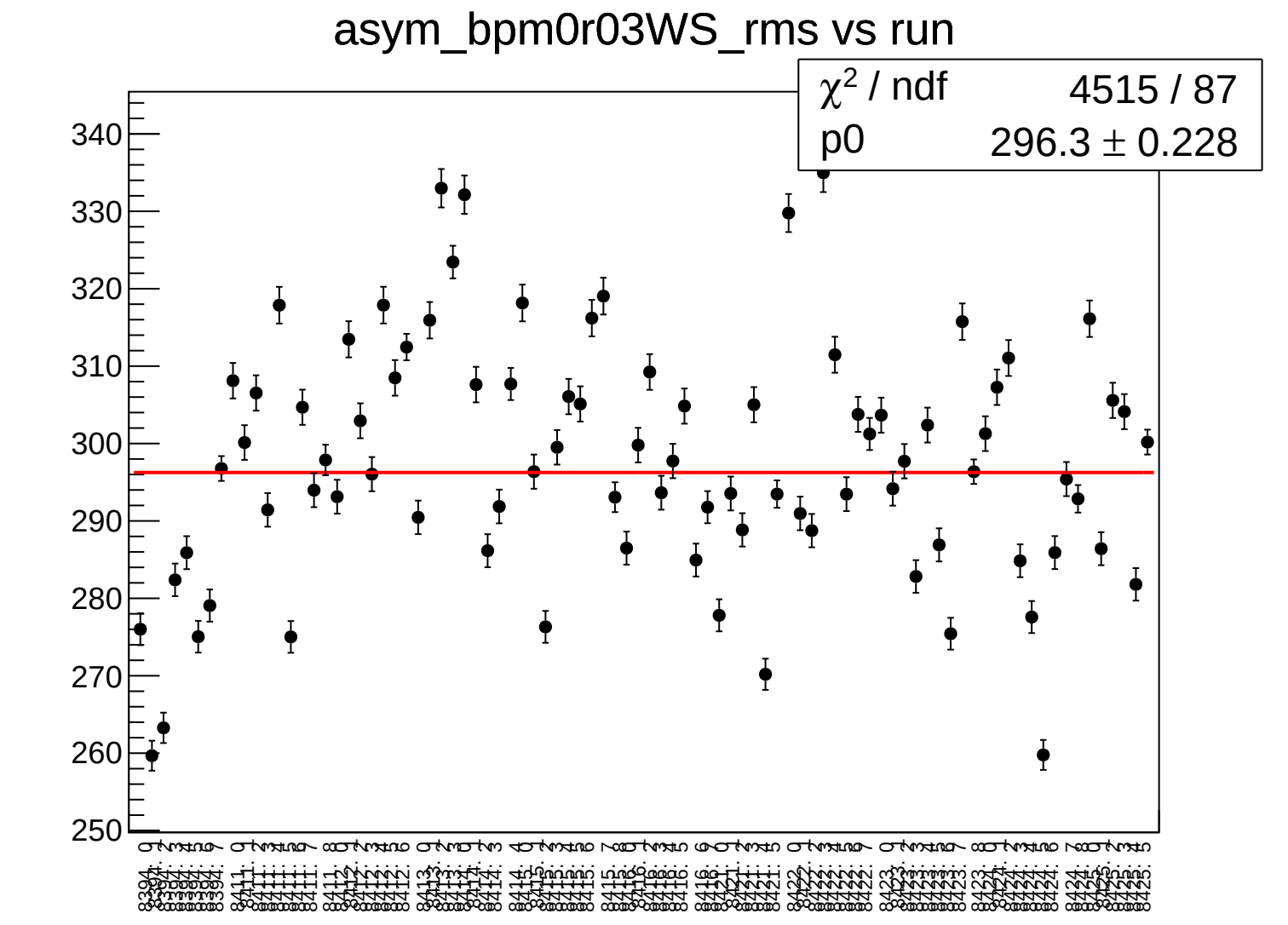

asym_bpm0l09WS_rms vs run
χ^2 / ndf 4087 / 87
p0 264.7 ± 0.2037
310
300
290
280
270
260
250
240
230

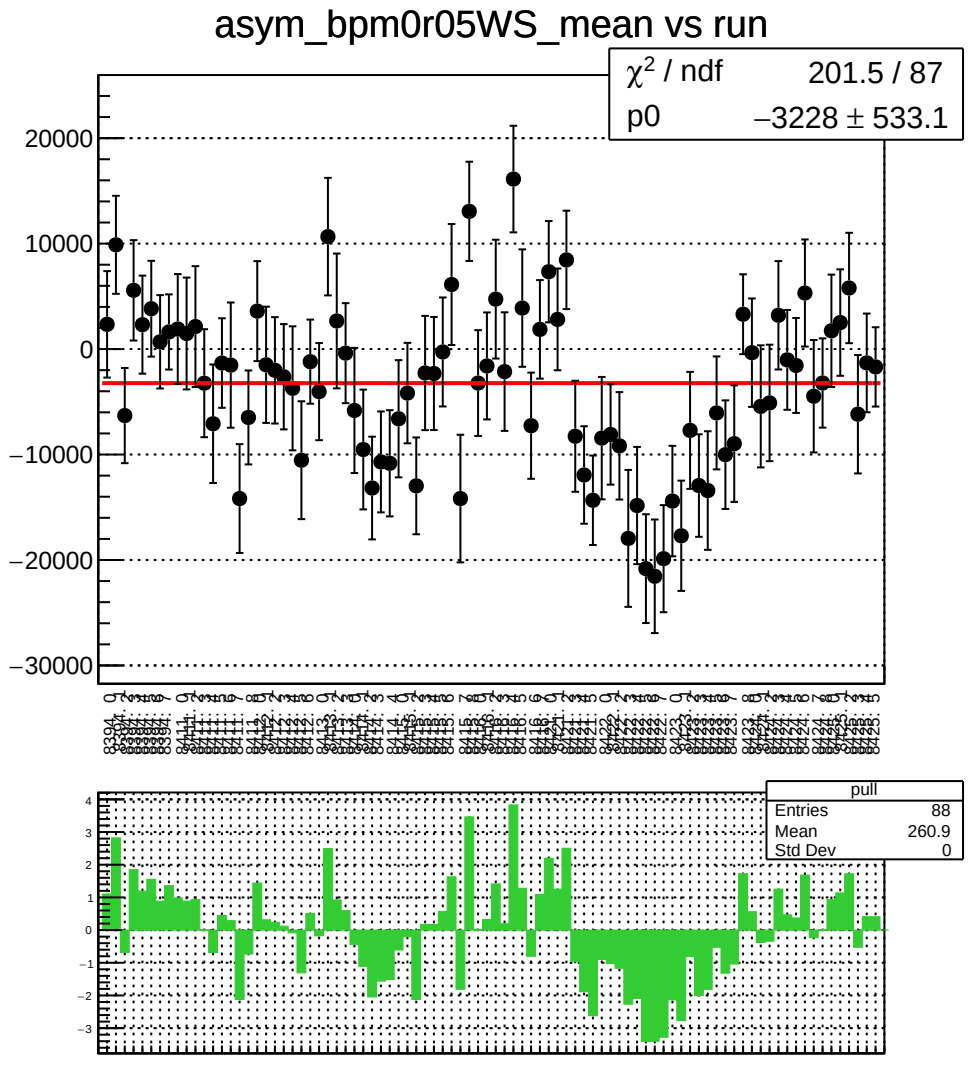

asym_bpm0l10WS_mean vs run
χ² / ndf 507.2 / 87
p0 −2821 ± 290.8
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −3950
Std Dev 0
6
4
2
0
−2
−4
−6

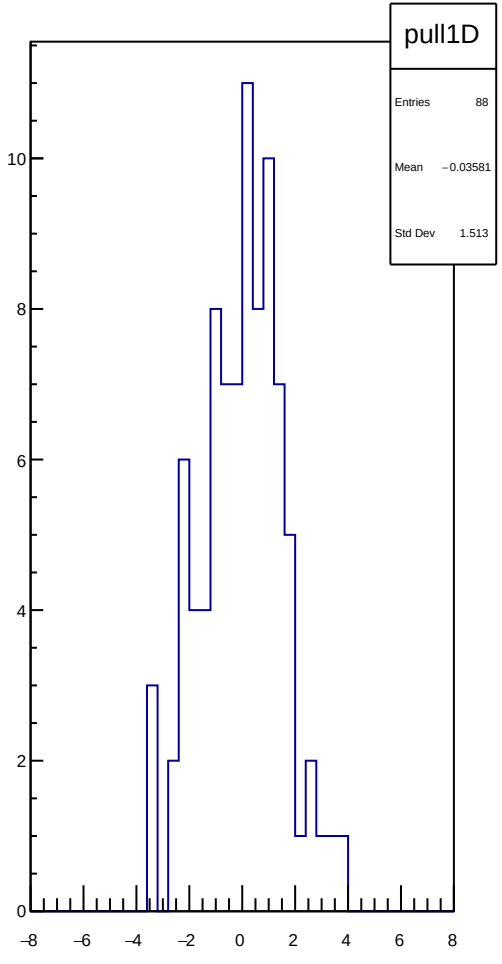

pull1D
Entries 88
Mean 0.00249
Std Dev 2.401
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

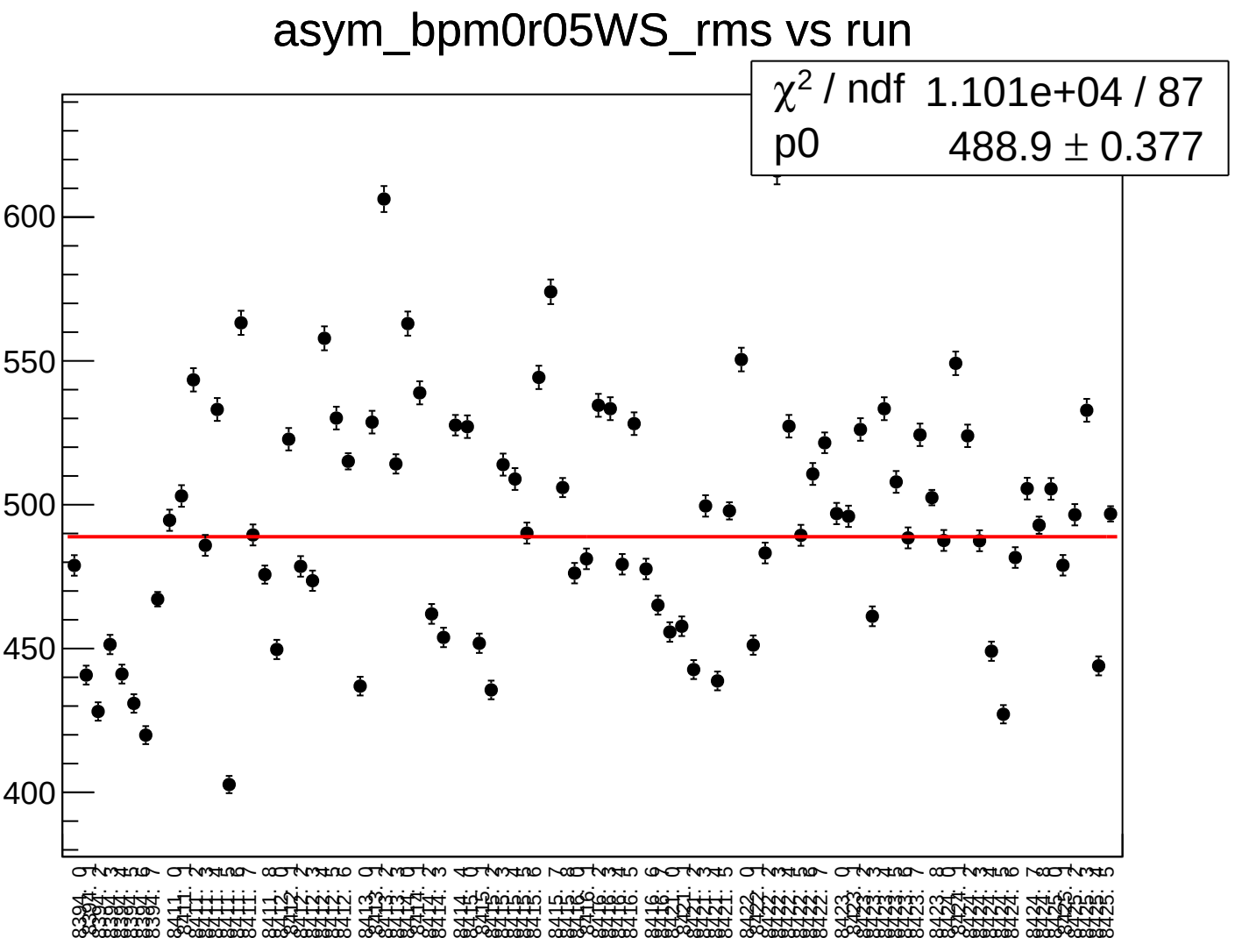

asym_bpm0l10WS_rms vs run
χ² / ndf 3988 / 87
p0 267.2 ± 0.2056
300
290
280
270
260
250
240
230

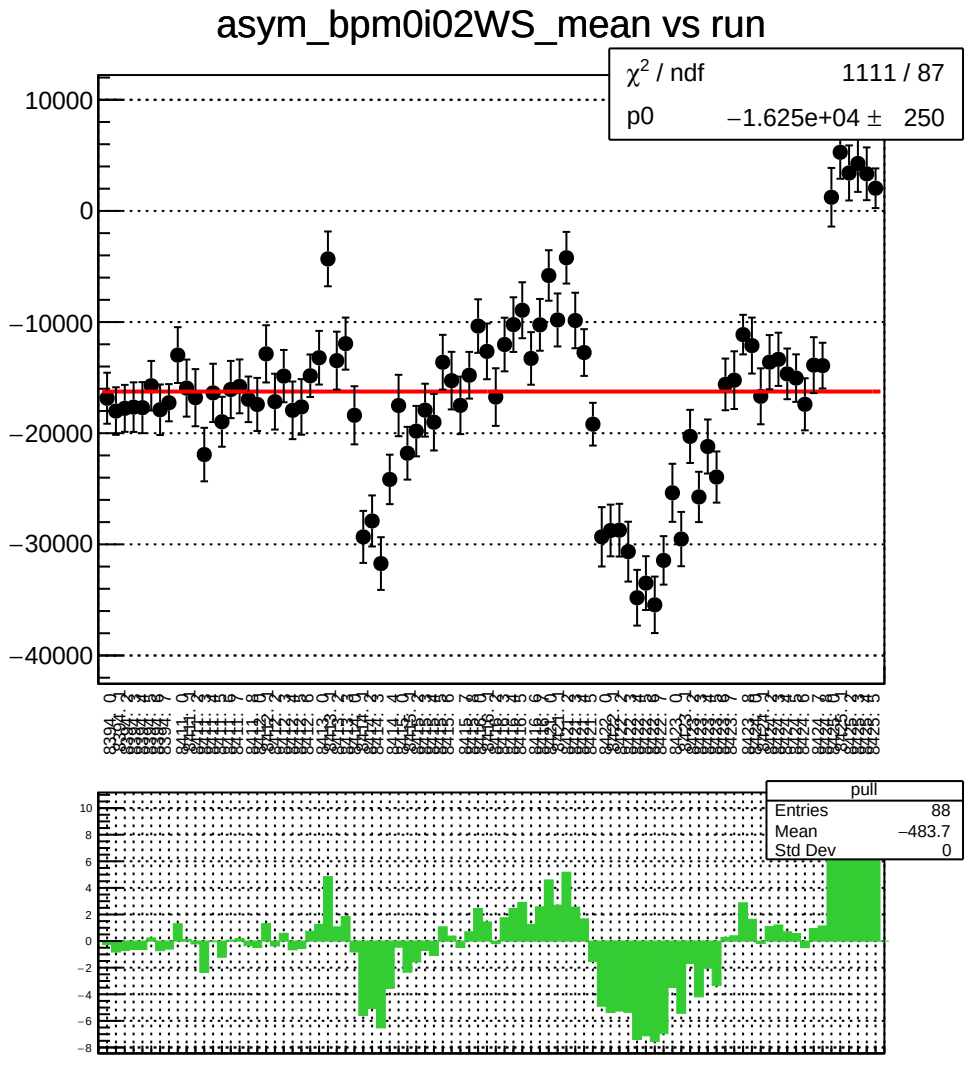

asym_bpm0r03WS_mean vs run
χ² / ndf 385.6 / 87
p0 −2760 ± 322.4
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 279.2
Std Dev 0
4
2
0
−2
−4
−6
pull1D
Entries 88
Mean −0.03251
Std Dev 2.093
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

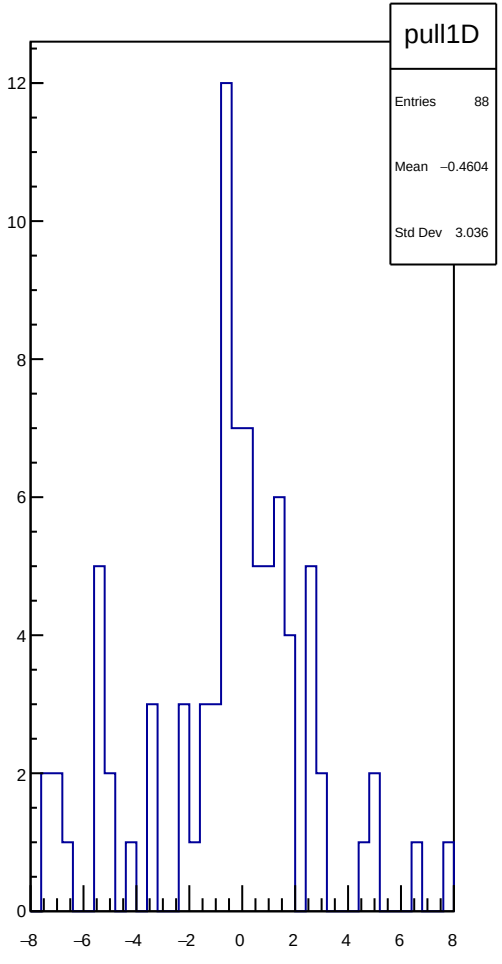

asym_bpm0r03WS_rms vs run
χ² / ndf 4515 / 87
p0 296.3 ± 0.228
340
330
320
310
300
290
280
270
260
250

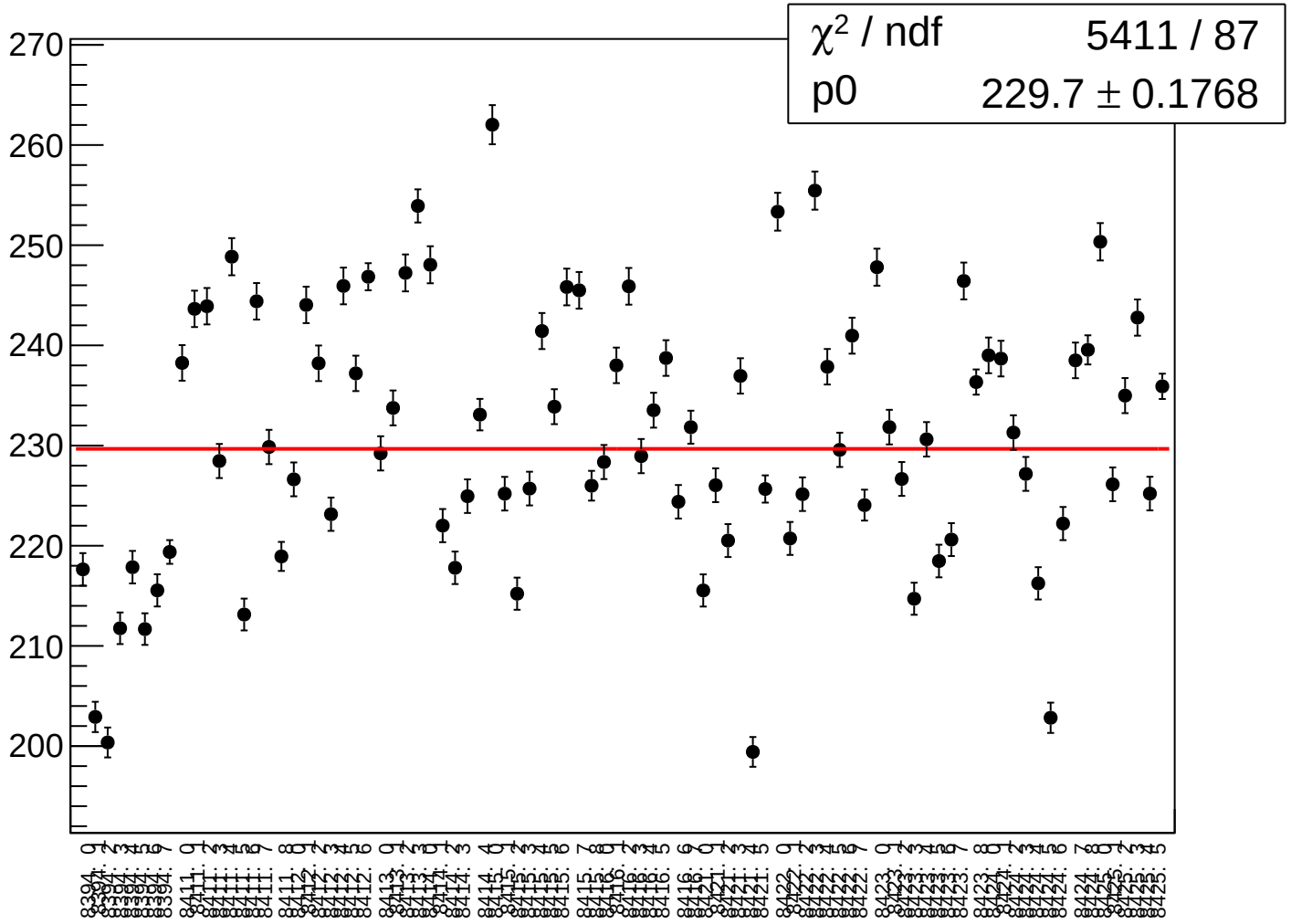

asym_bpm0r05WS_mean vs run
χ² / ndf 201.5 / 87
p0 −3228 ± 533.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 260.9
Std Dev 0
4
3
2
1
0
−1
−2
−3

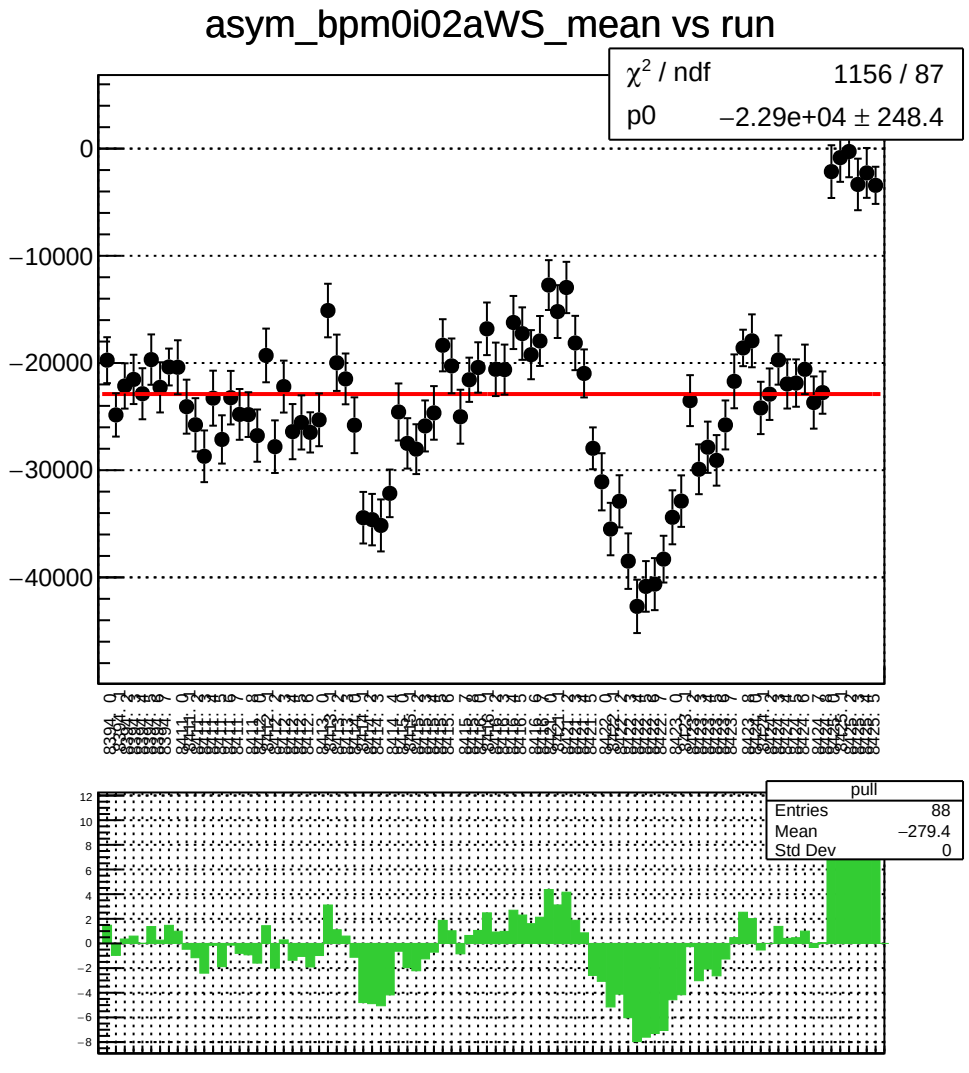

pull1D
Entries 88
Mean −0.03581
Std Dev 1.513
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

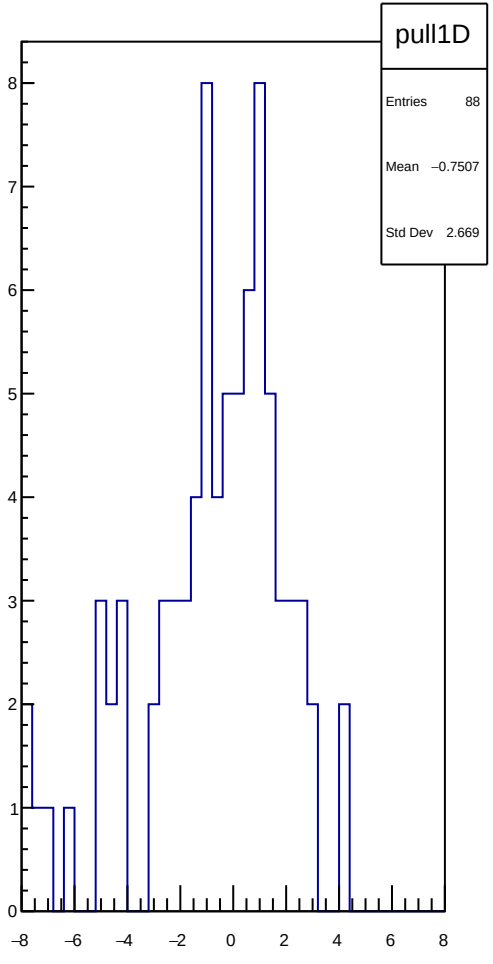

asym_bpm0r05WS_rms vs run
χ^2 / ndf 1.101e+04 / 87
p0 488.9 ± 0.377
600
550
500
450
400

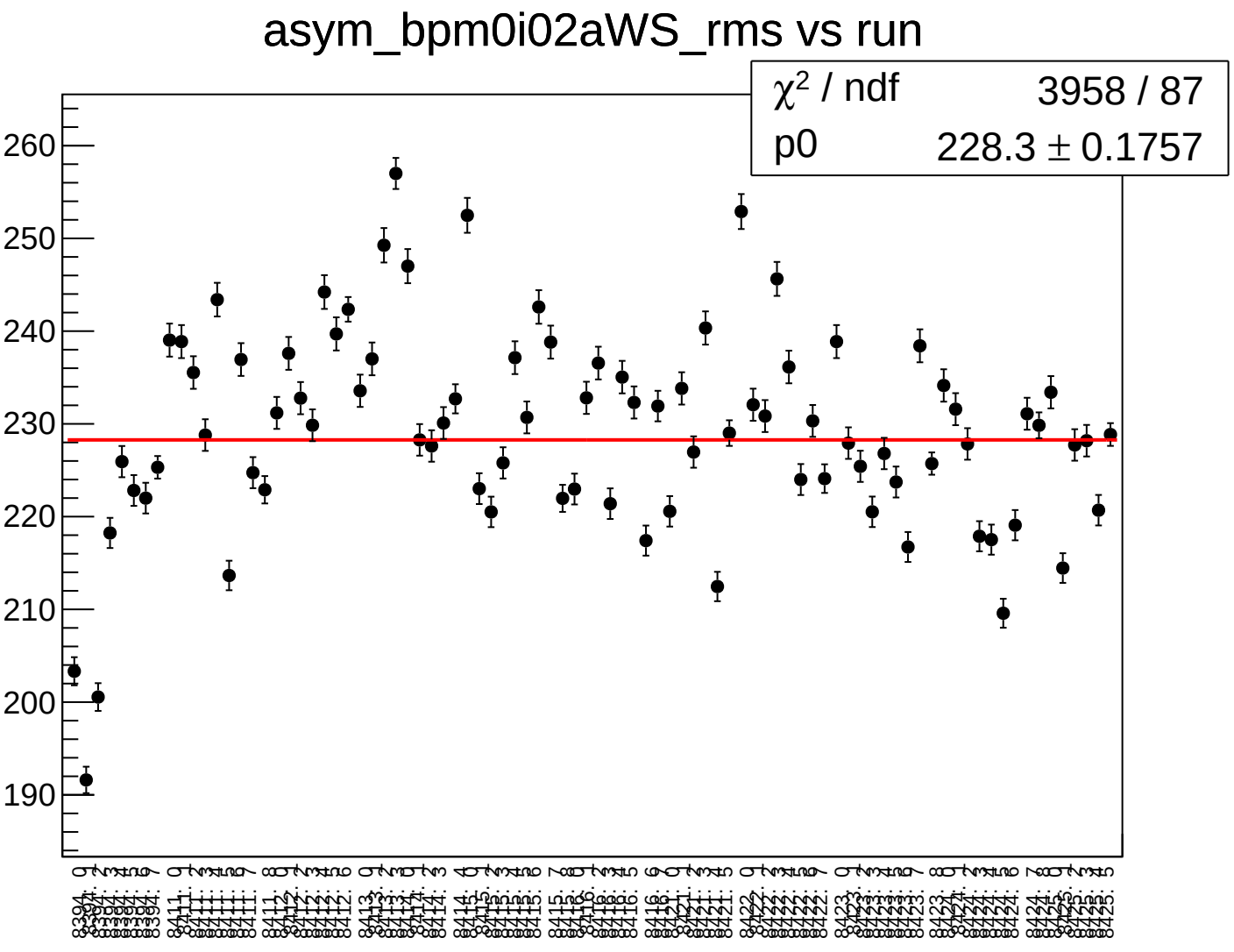

asym_bpm0i02WS_mean vs run
χ² / ndf 1111 / 87
p0 −1.625e+04 ± 250
pull
Entries 88
Mean −483.7
Std Dev 0

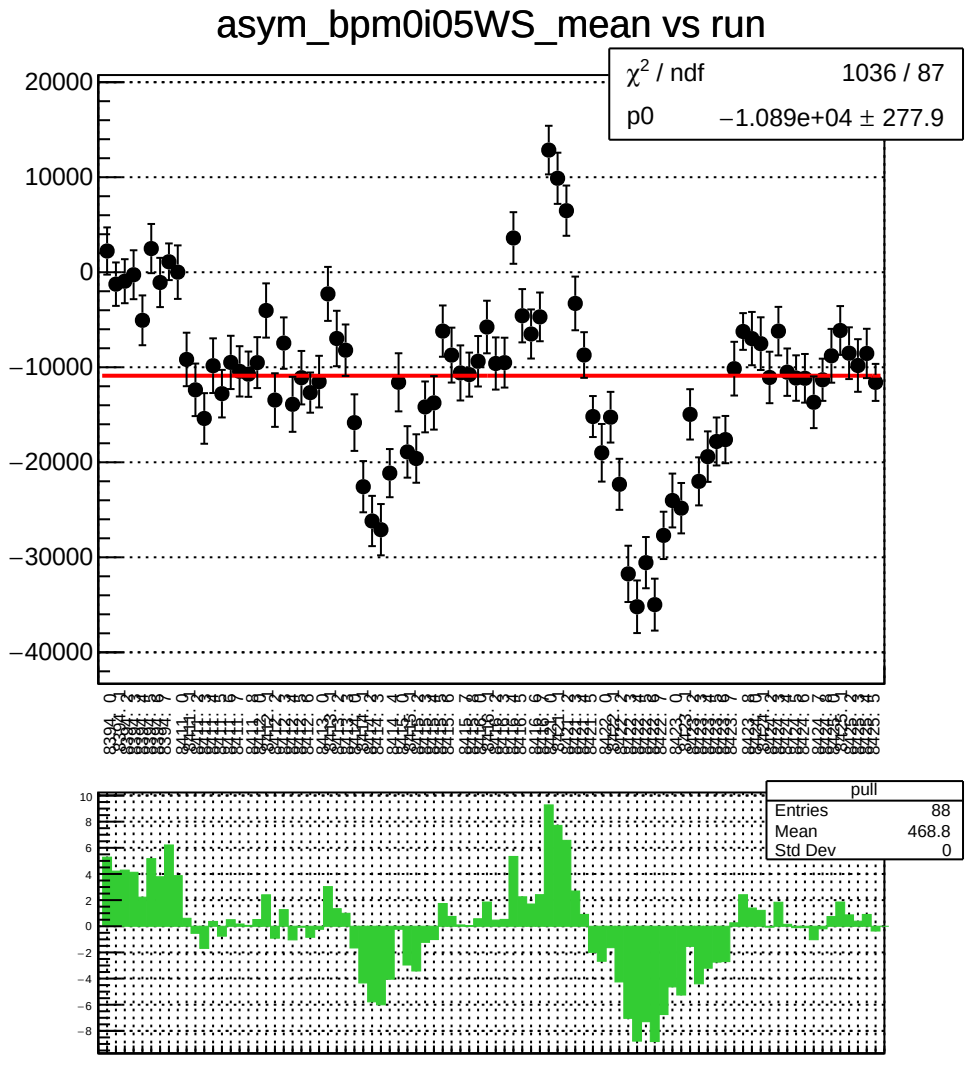

pull1D
Entries 88
Mean −0.4604
Std Dev 3.036

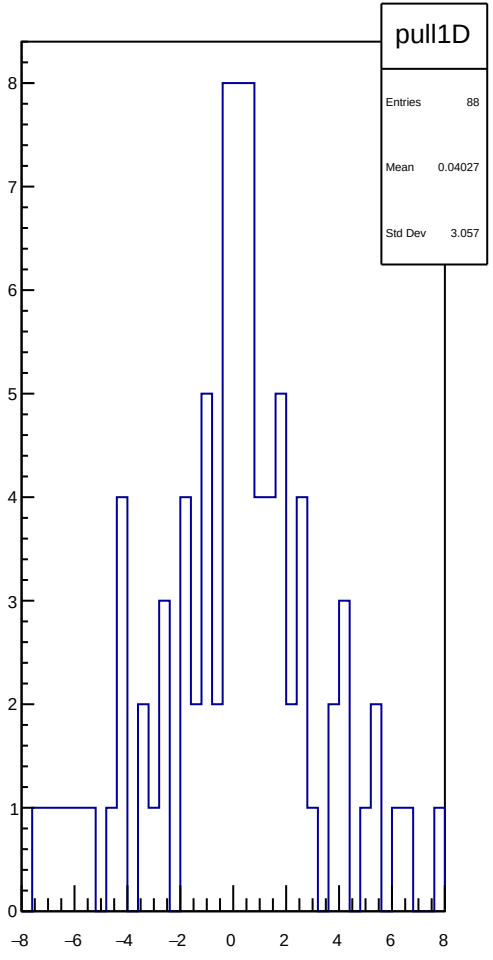

asym_bpm0i02WS_rms vs run
χ^2 / ndf 5411 / 87
p0 229.7 ± 0.1768
270
260
250
240
230
220
210
200

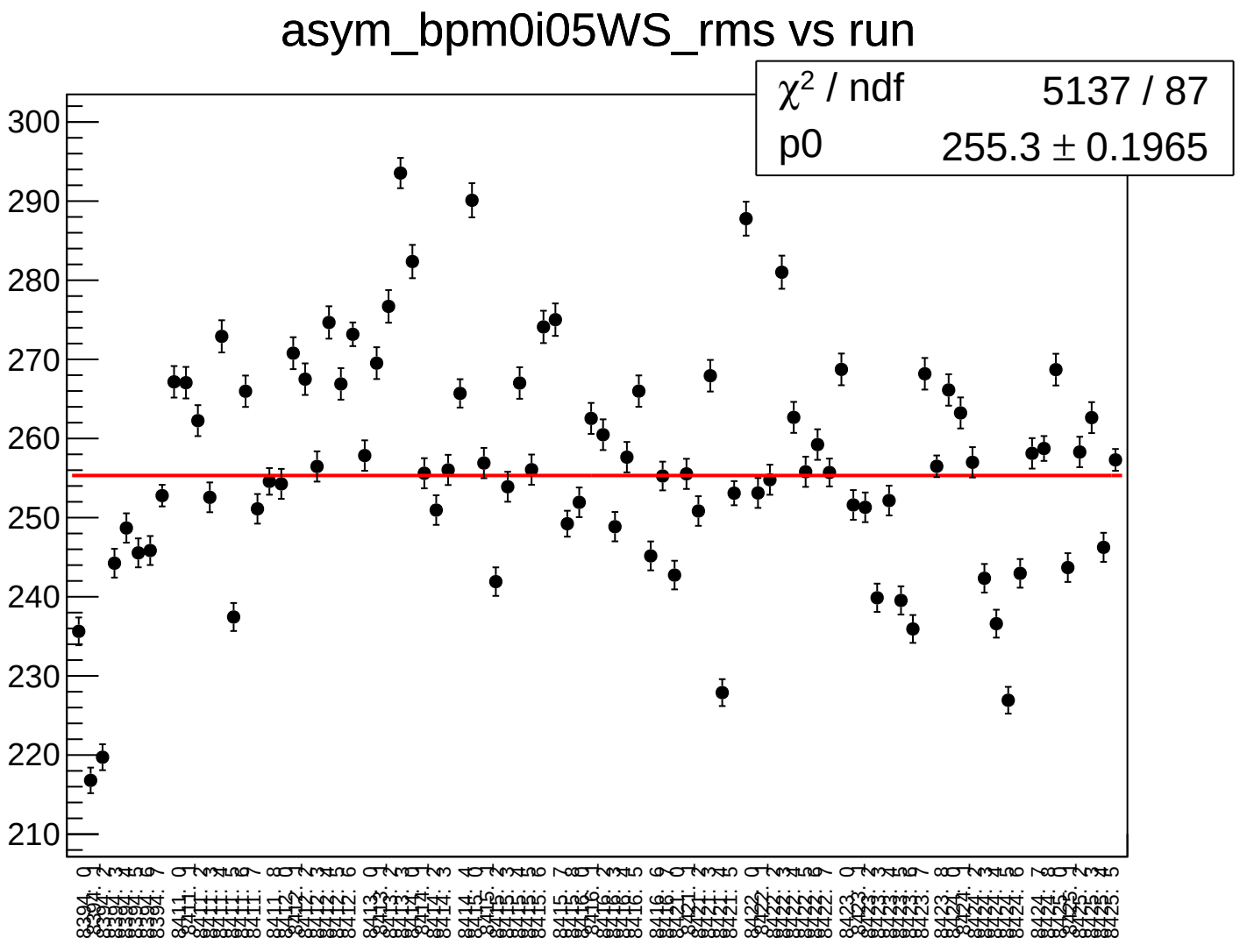

asym_bpm0i02aWS_mean vs run
χ² / ndf 1156 / 87
p0 −2.29e+04 ± 248.4
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −279.4
Std Dev 0
12
10
8
6
4
2
0
−2
−4
−6
−8

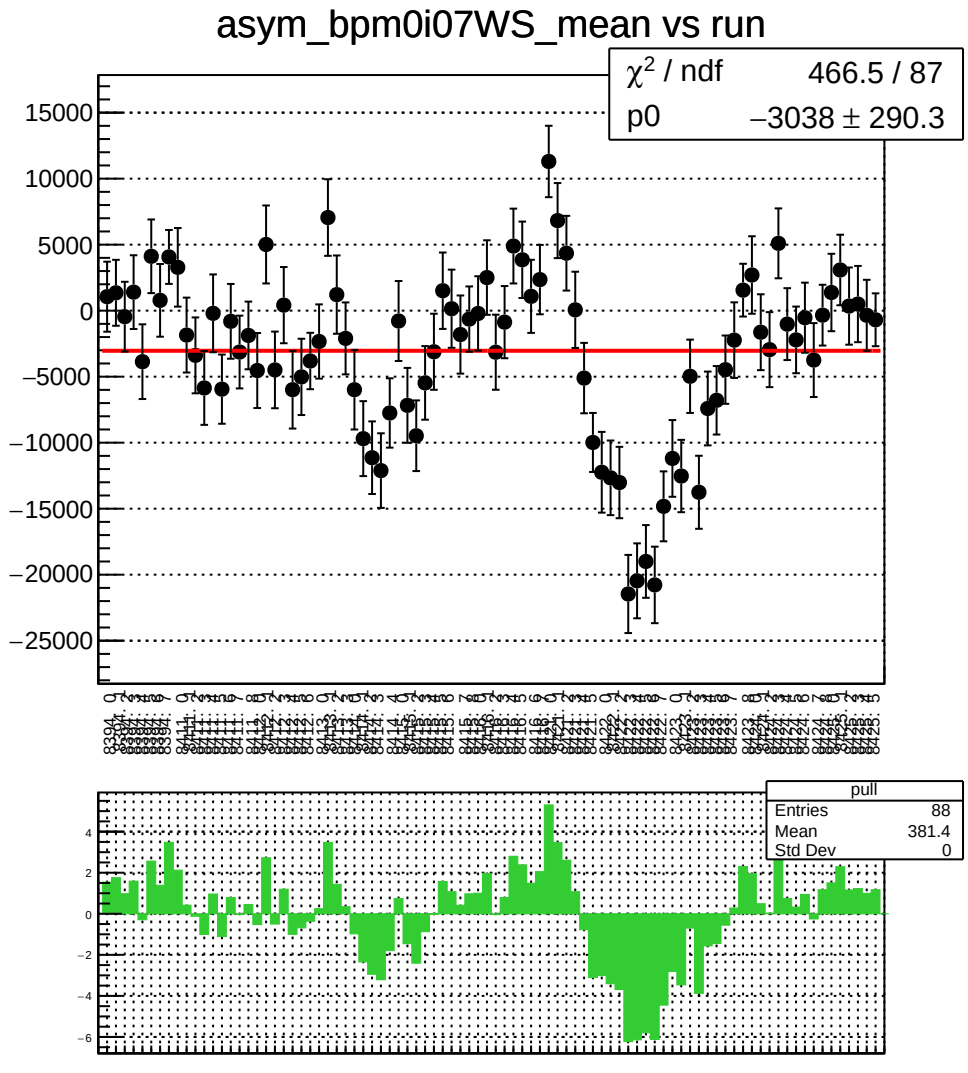

pull1D
Entries 88
Mean −0.7507
Std Dev 2.669
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

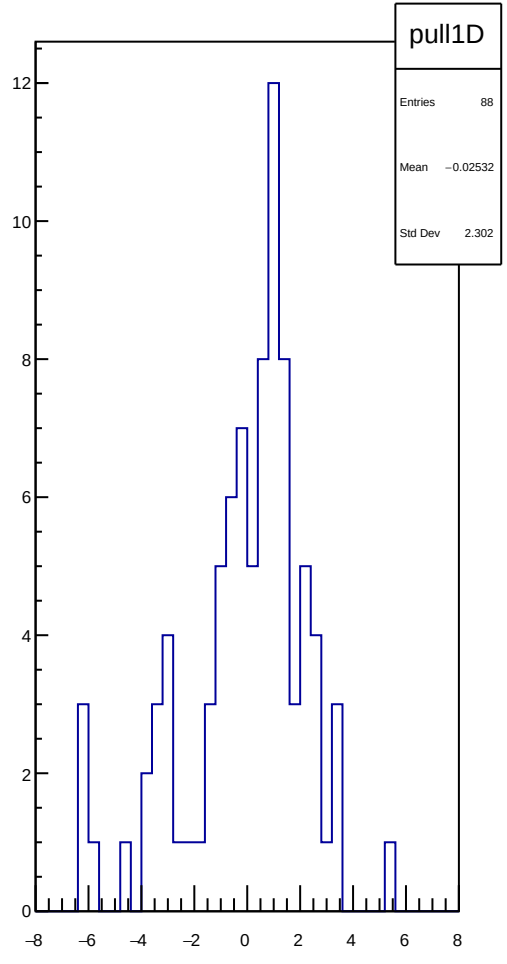

asym_bpm0i02aWS_rms vs run
χ² / ndf 3958 / 87
p0 228.3 ± 0.1757
260
250
240
230
220
210
200
190

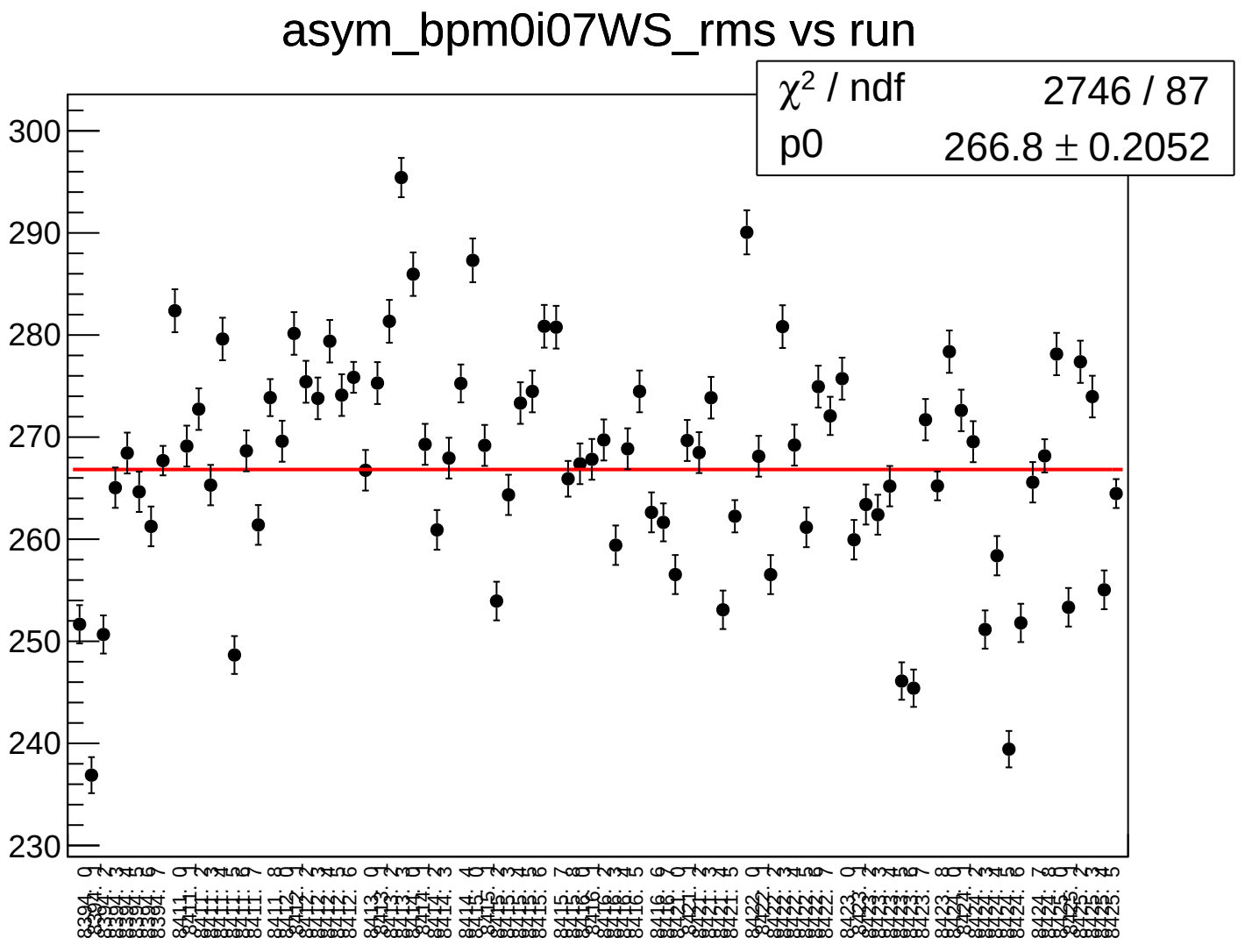

asym_bpm0i05WS_mean vs run
χ² / ndf 1036 / 87
p0 −1.089e+04 ± 277.9
pull
Entries 88
Mean 468.8
Std Dev 0

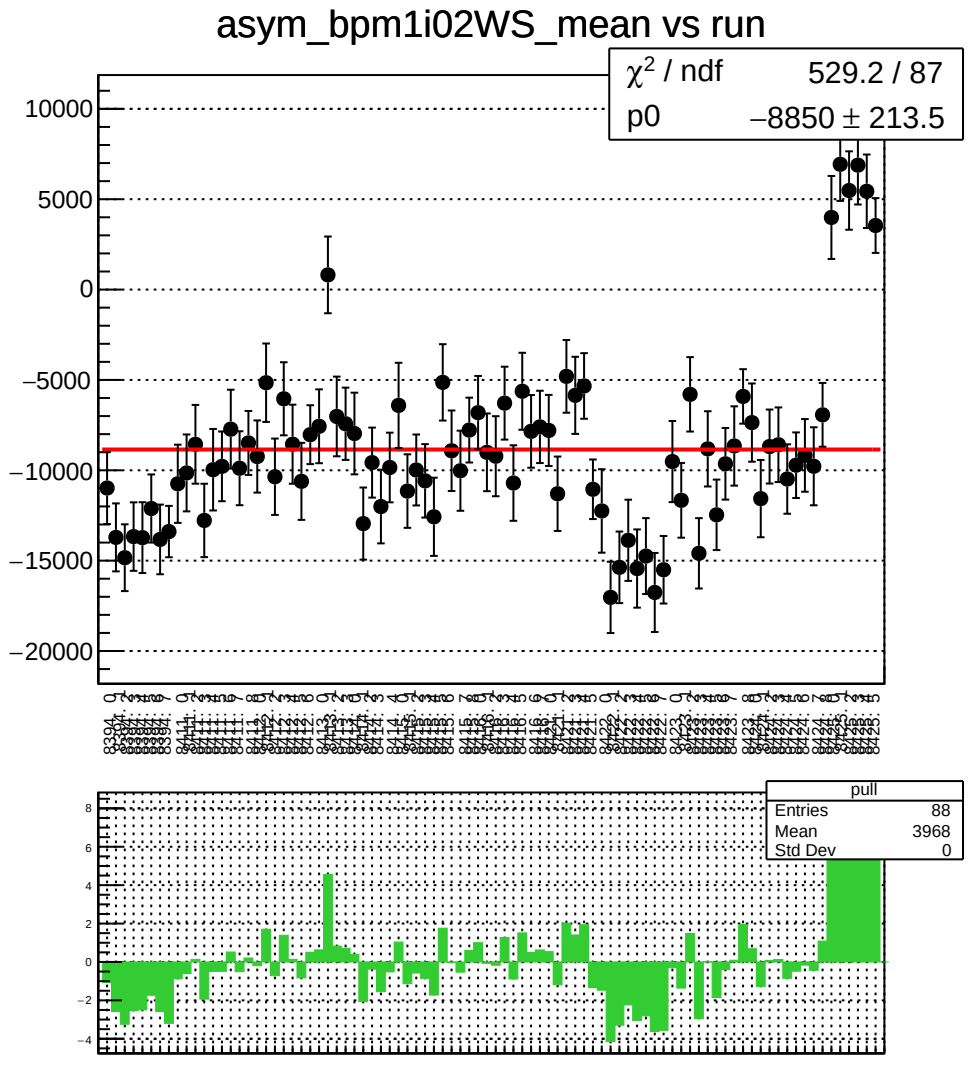

pull1D
Entries 88
Mean 0.04027
Std Dev 3.057

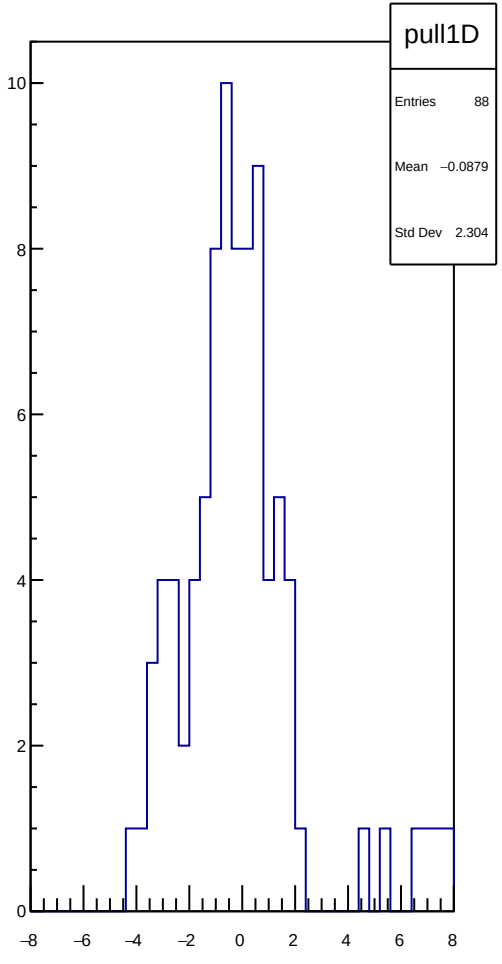

asym_bpm0i05WS_rms vs run
χ² / ndf 5137 / 87
p0 255.3 ± 0.1965
300
290
280
270
260
250
240
230
220
210

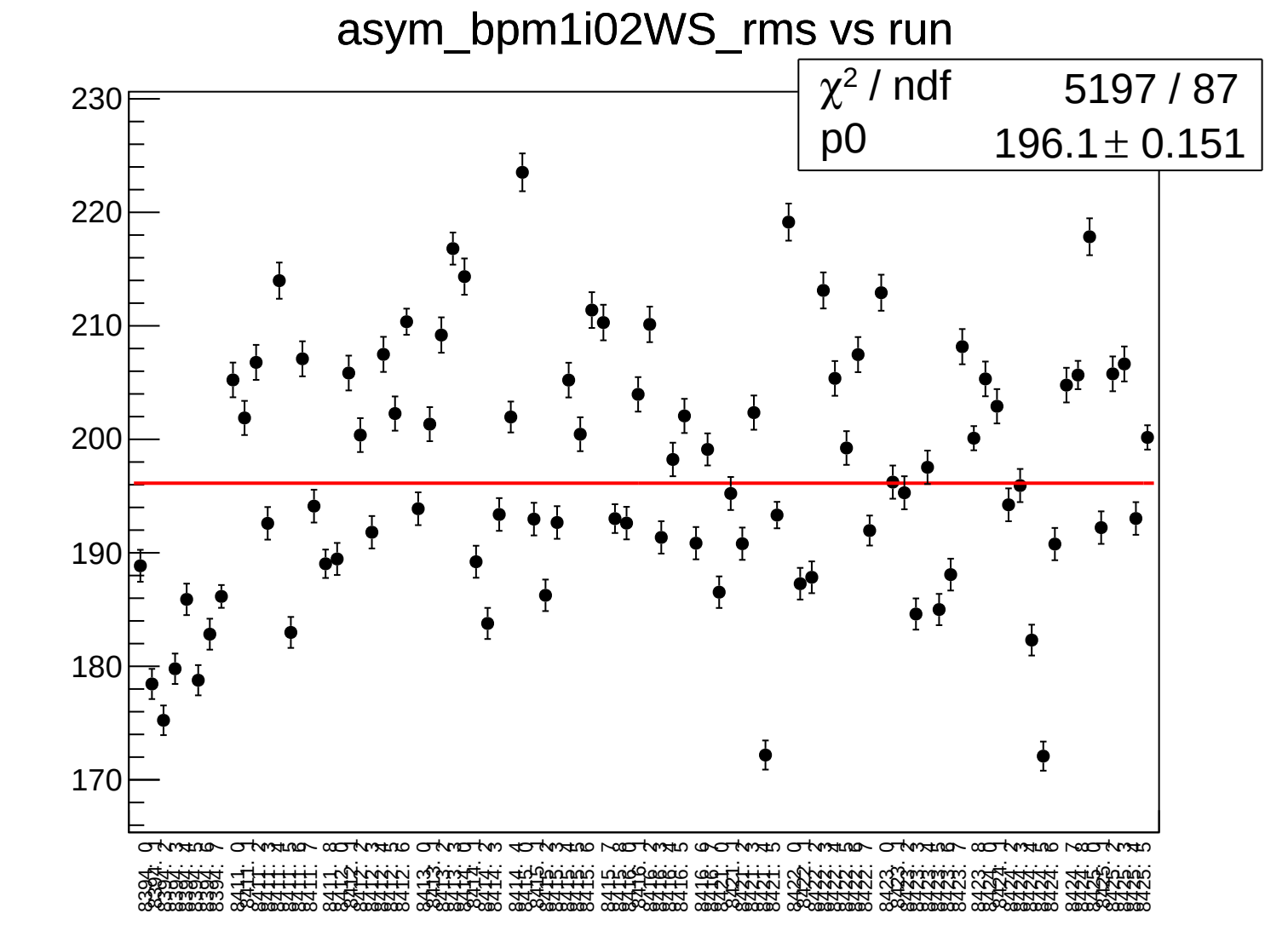

asym_bpm0i07WS_mean vs run
χ² / ndf 466.5 / 87
p0 −3038 ± 290.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 88
Mean 381.4
Std Dev 0
4
2
0
−2
−4
−6

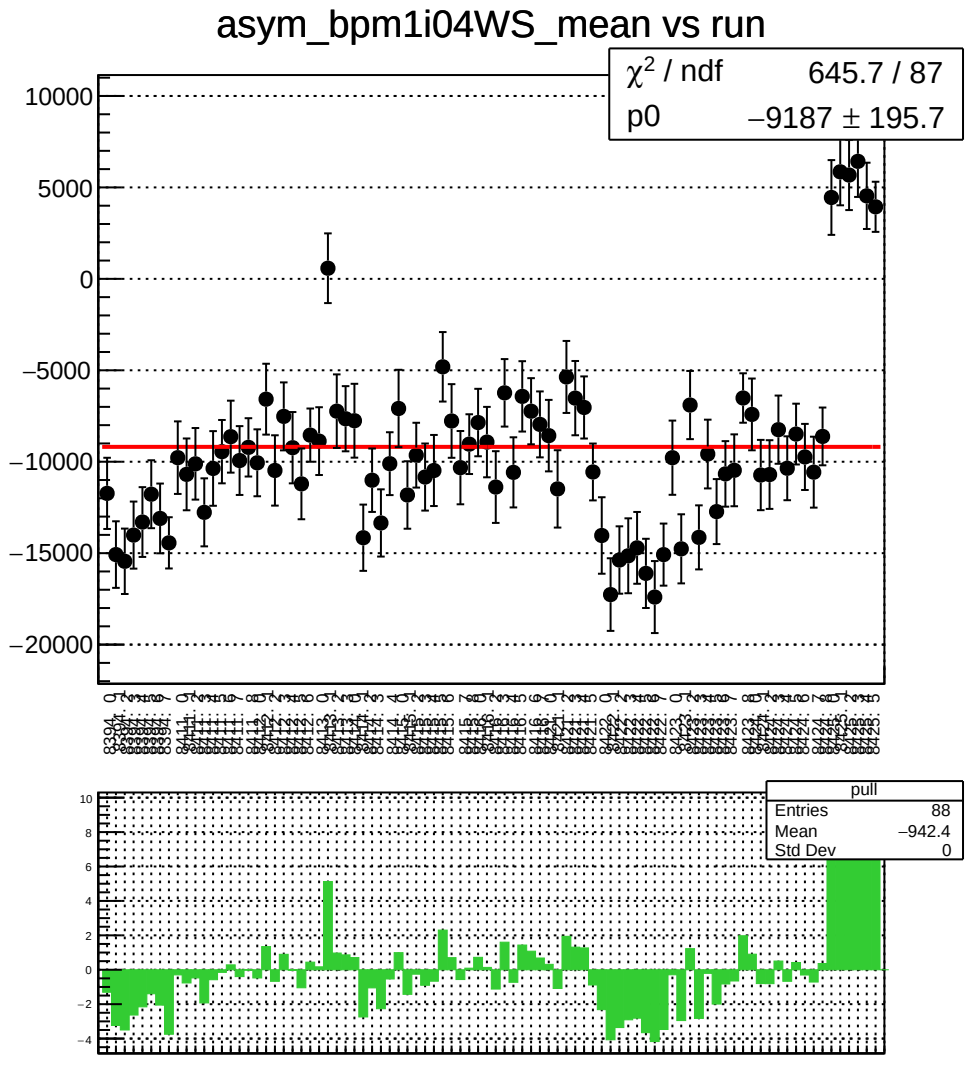

pull1D
Entries 88
Mean −0.02532
Std Dev 2.302
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

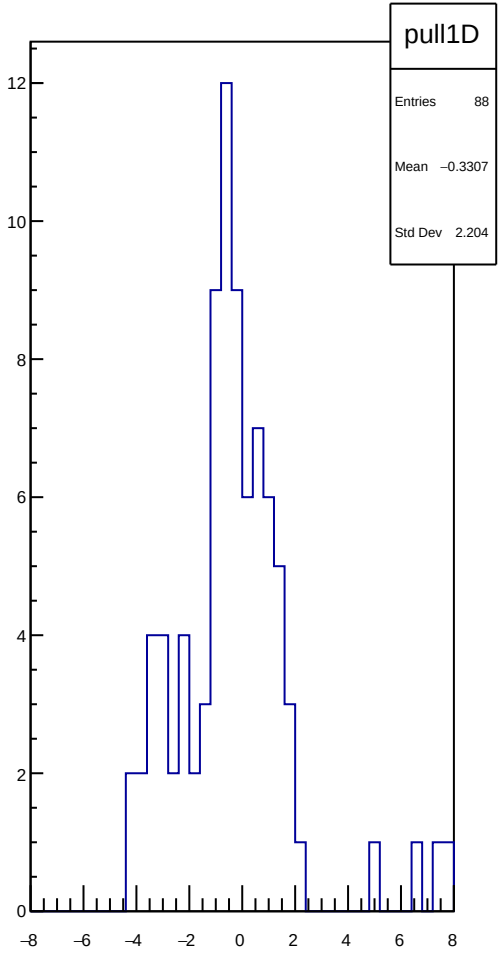

asym_bpm0i07WS_rms vs run
χ² / ndf 2746 / 87
p0 266.8 ± 0.2052
300
290
280
270
260
250
240
230

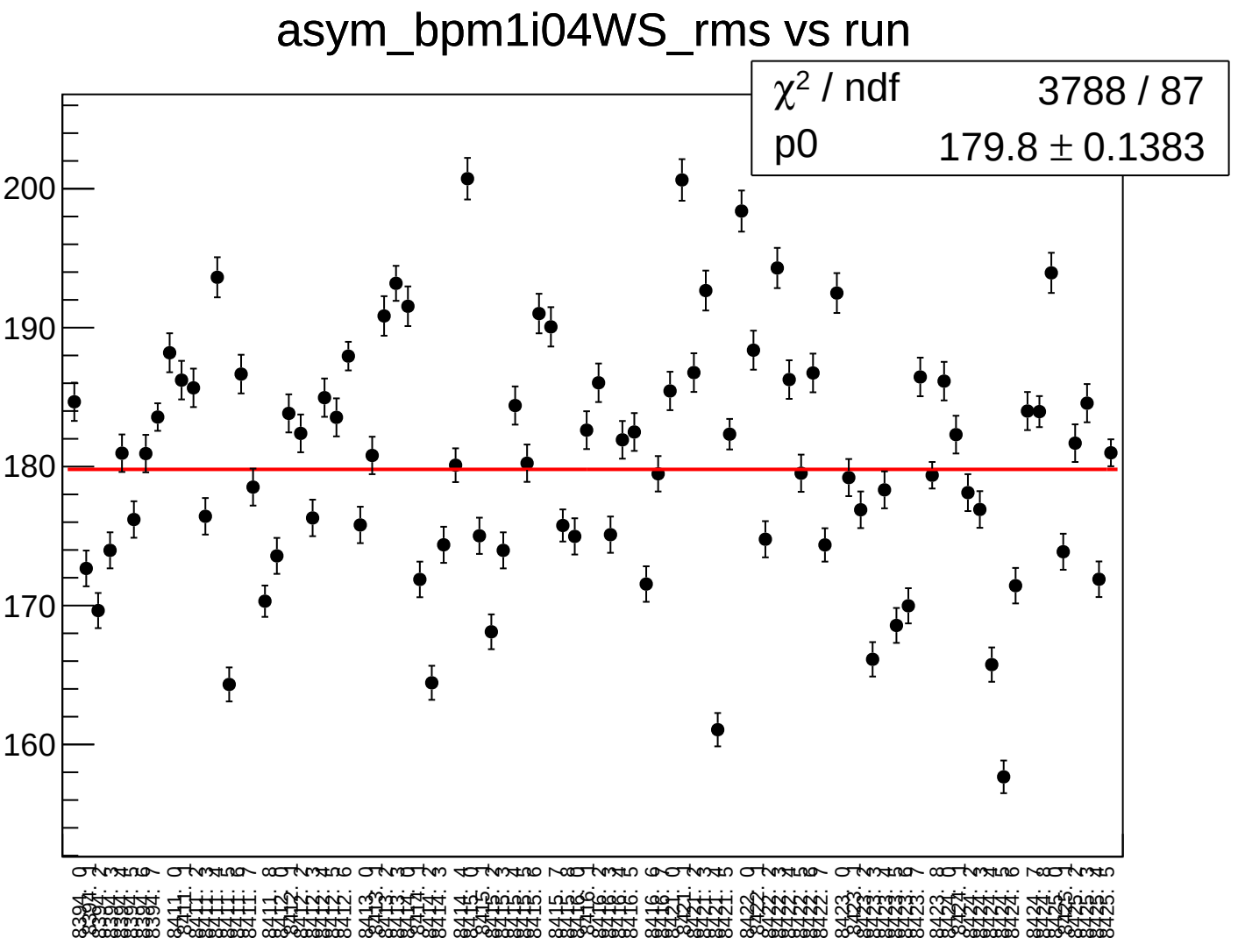

asym_bpm1i02WS_mean vs run
χ² / ndf 529.2 / 87
p0 −8850 ± 213.5
pull
Entries 88
Mean 3968
Std Dev 0

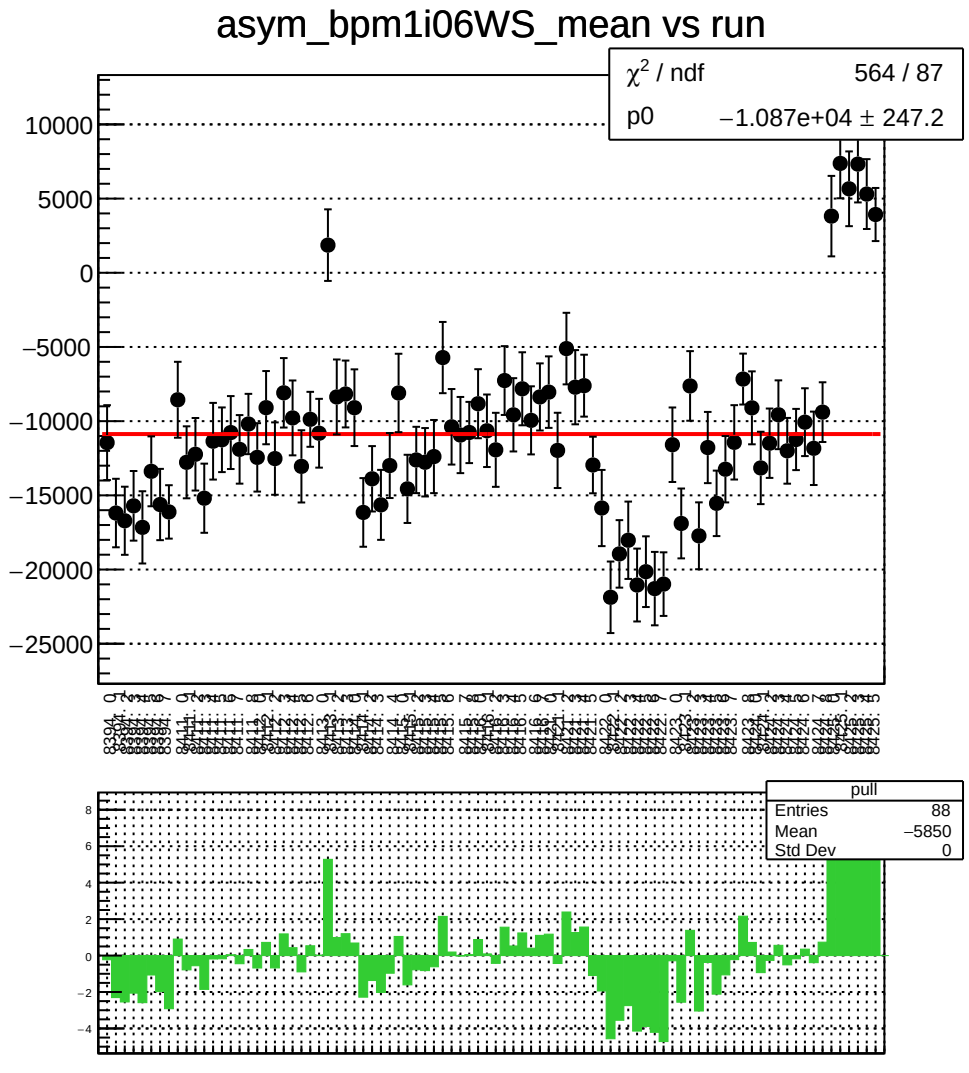

pull1D
Entries 88
Mean −0.0879
Std Dev 2.304

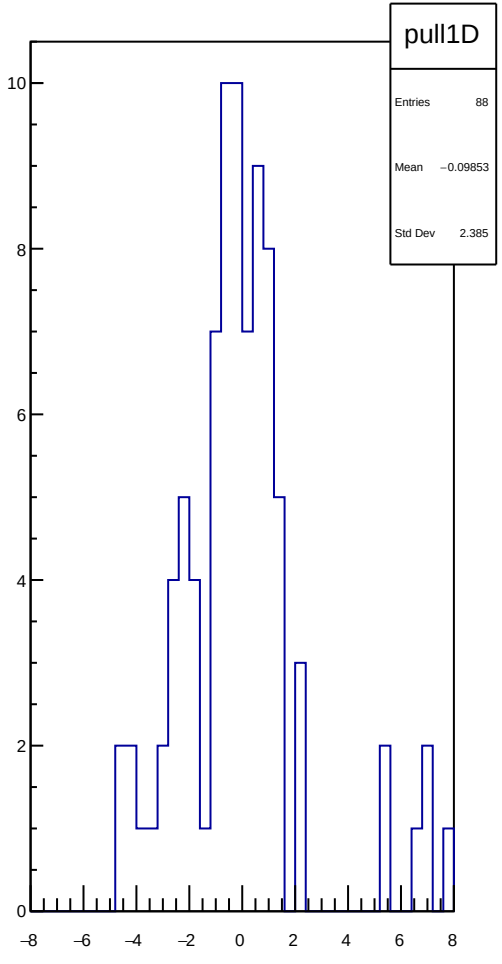

asym_bpm1i02WS_rms vs run
χ^2 / ndf 5197 / 87
p0 196.1 ± 0.151
230
220
210
200
190
180
170

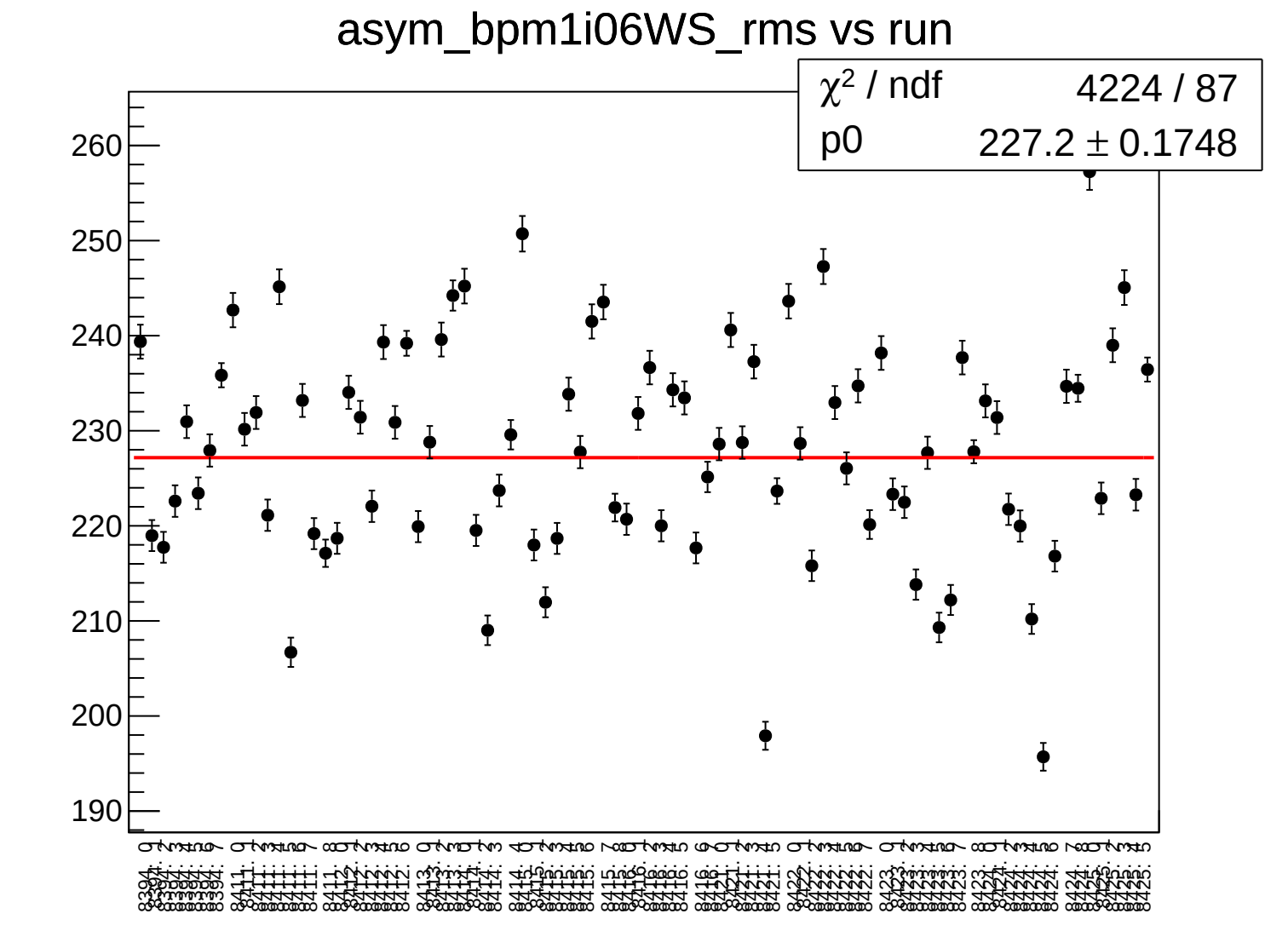

asym_bpm1i04WS_mean vs run
χ² / ndf 645.7 / 87
p0 −9187 ± 195.7
pull
Entries 88
Mean −942.4
Std Dev 0

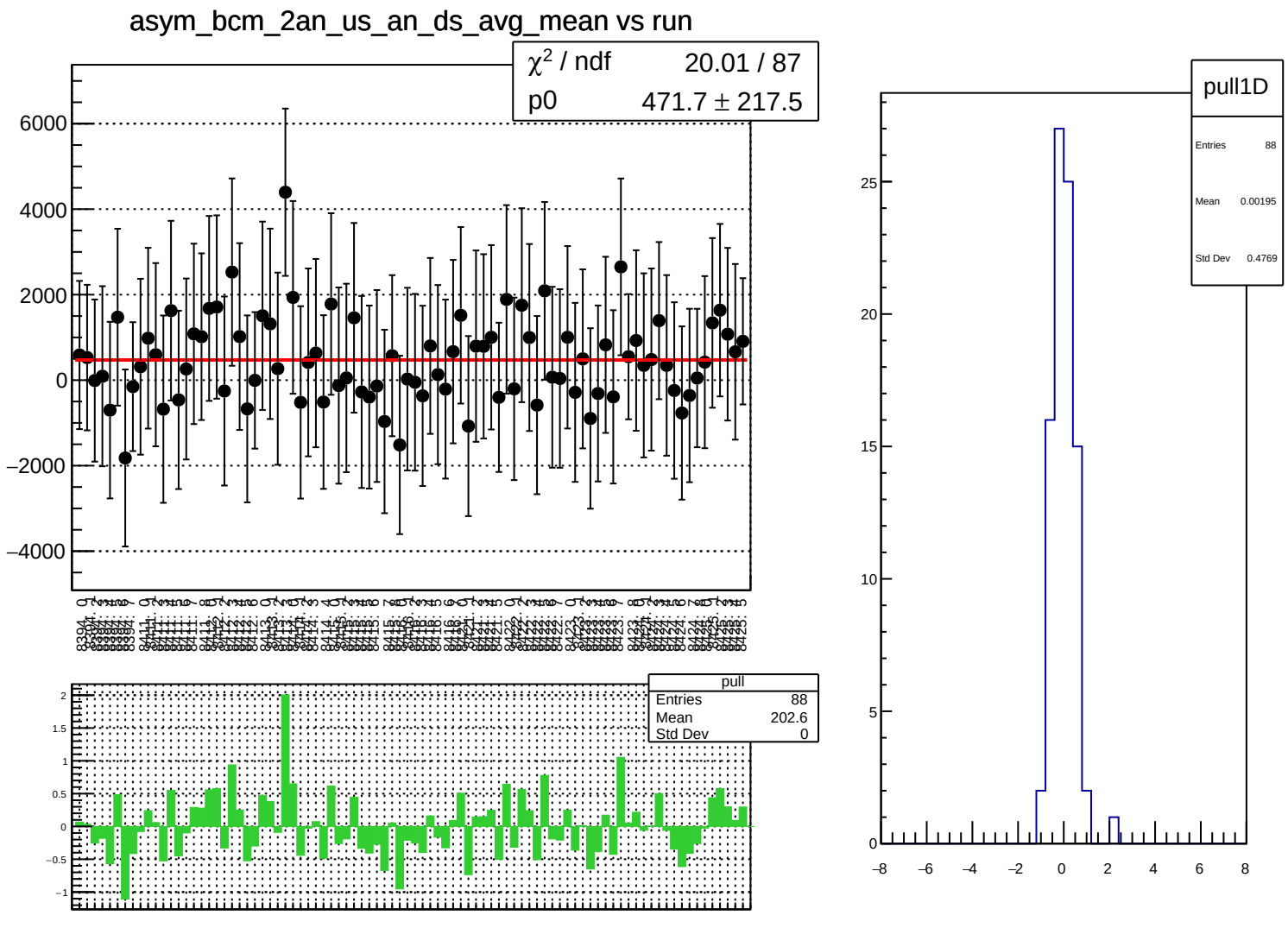

pull1D
Entries 88
Mean −0.3307
Std Dev 2.204

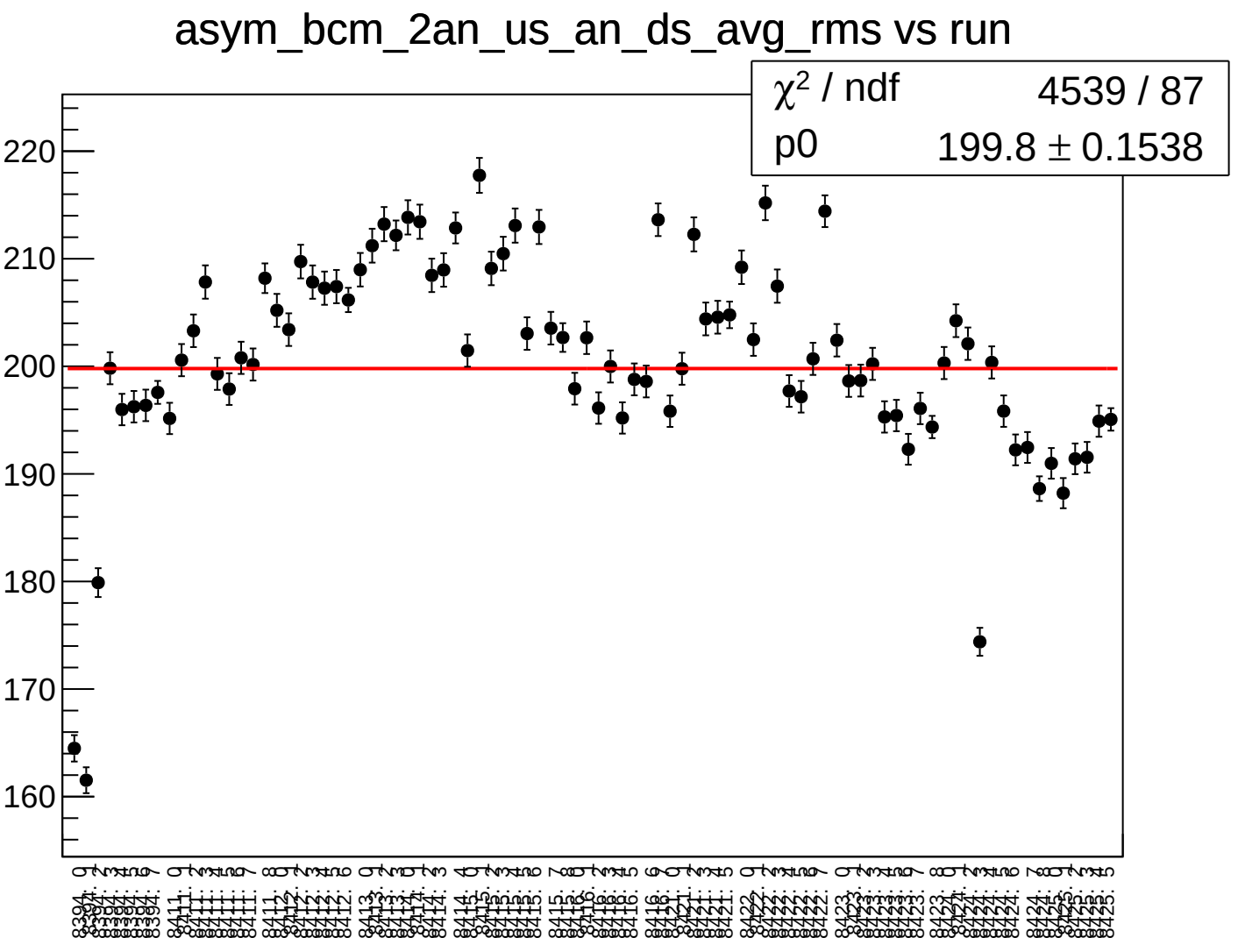

asym_bpm1i04WS_rms vs run
χ² / ndf 3788 / 87
p0 179.8 ± 0.1383
200
190
180
170
160

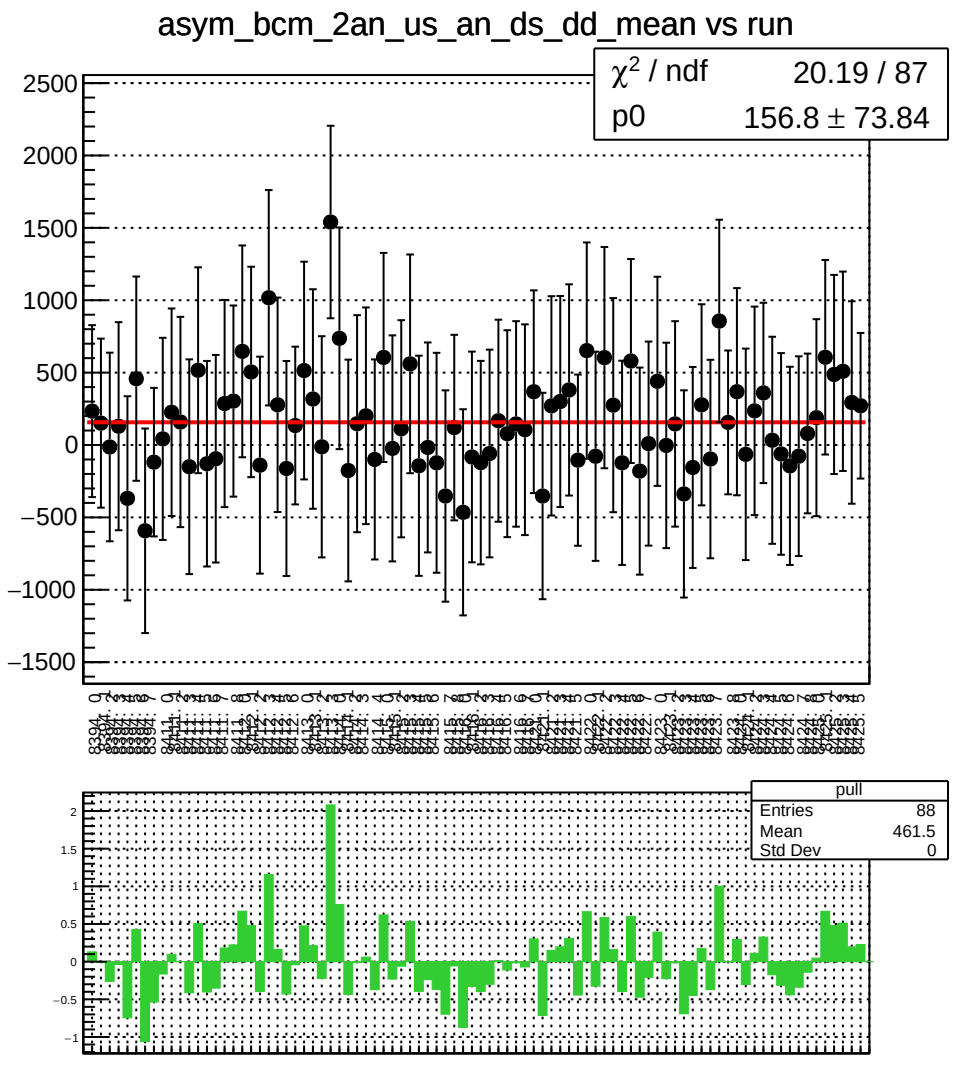

asym_bpm1i06WS_mean vs run
χ² / ndf 564 / 87
p0 −1.087e+04 ± 247.2
pull
Entries 88
Mean −5850
Std Dev 0

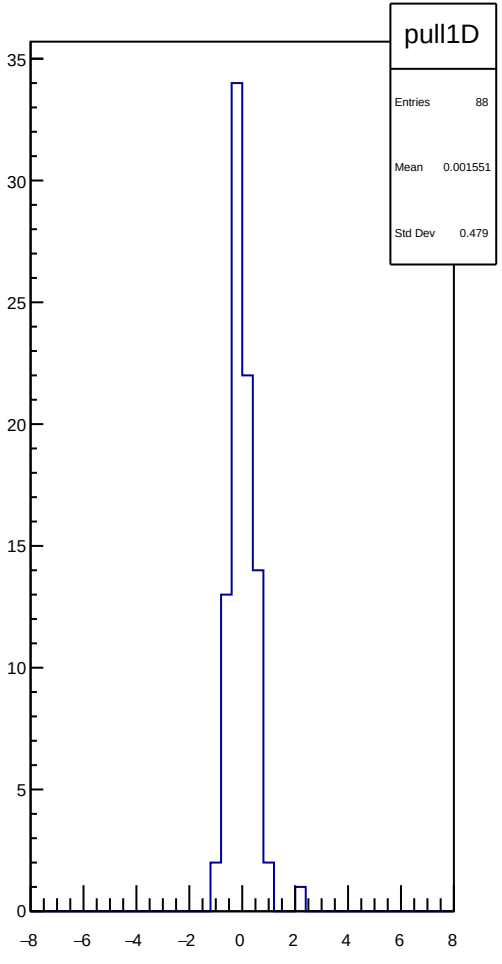

pull1D
Entries 88
Mean −0.09853
Std Dev 2.385

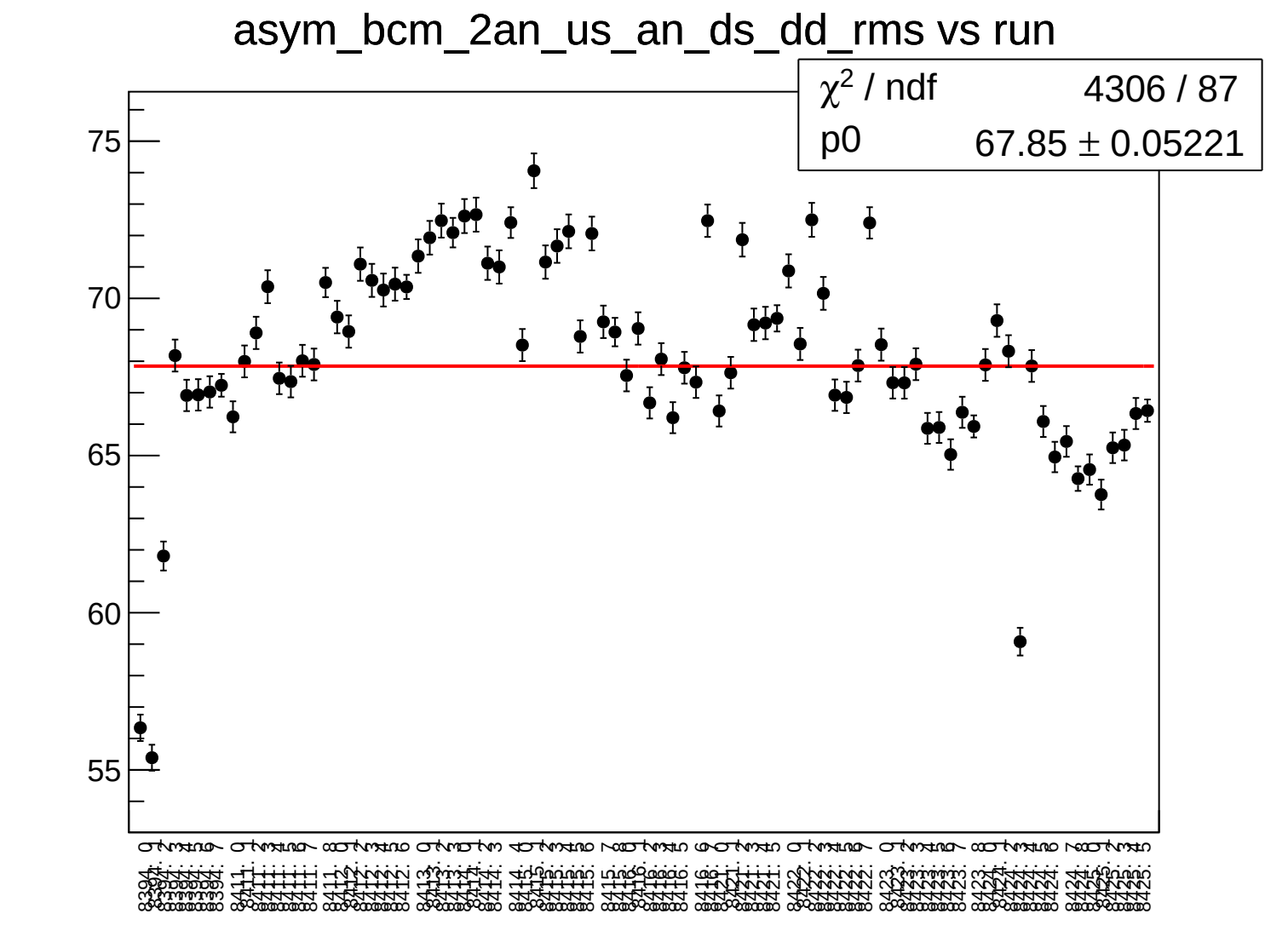

asym_bpm1i06WS_rms vs run
χ² / ndf 4224 / 87
p0 227.2 ± 0.1748
260
250
240
230
220
210
200
190

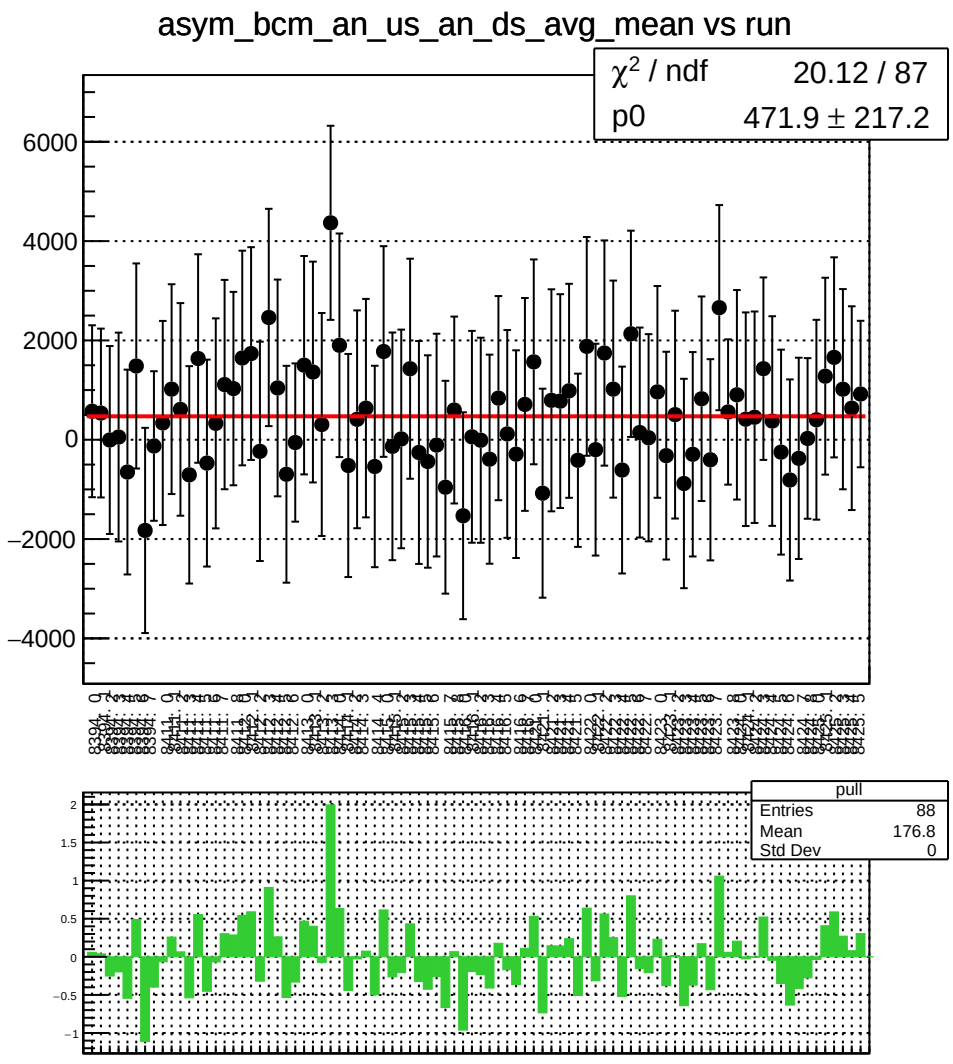

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 20.01 / 87
p0 471.7 ± 217.5
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 202.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.00195
Std Dev 0.4769
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

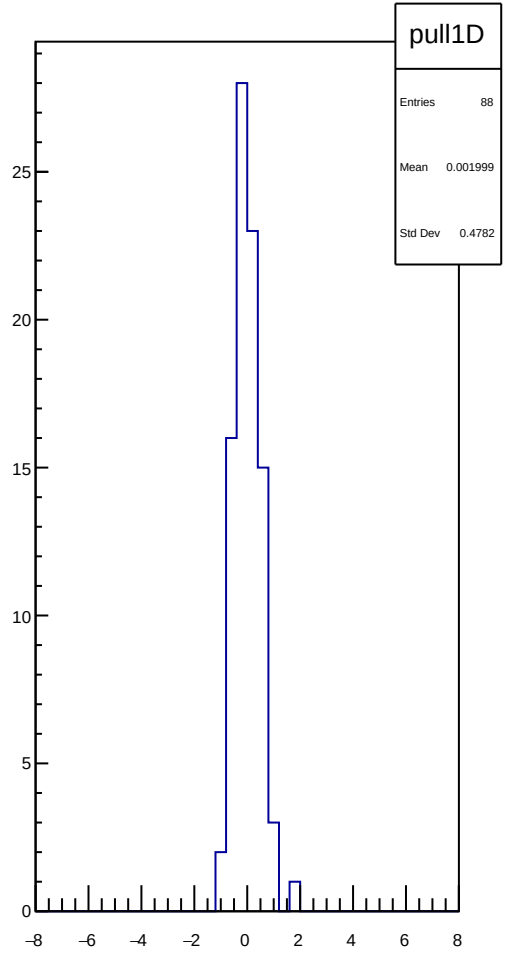

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 4539 / 87
p0 199.8 ± 0.1538
220
210
200
190
180
170
160

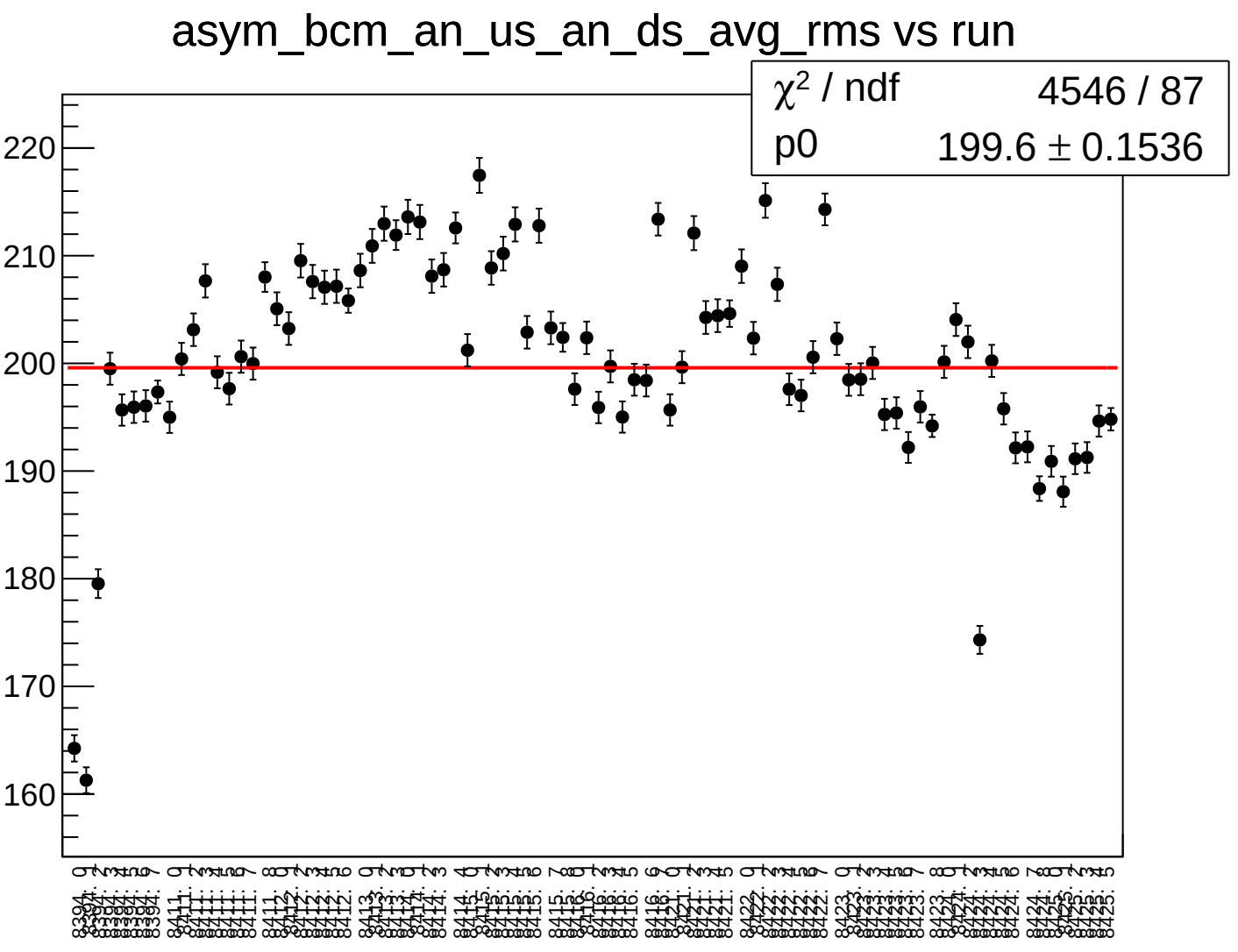

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 20.19 / 87
p0 156.8 ± 73.84
pull
Entries 88
Mean 461.5
Std Dev 0

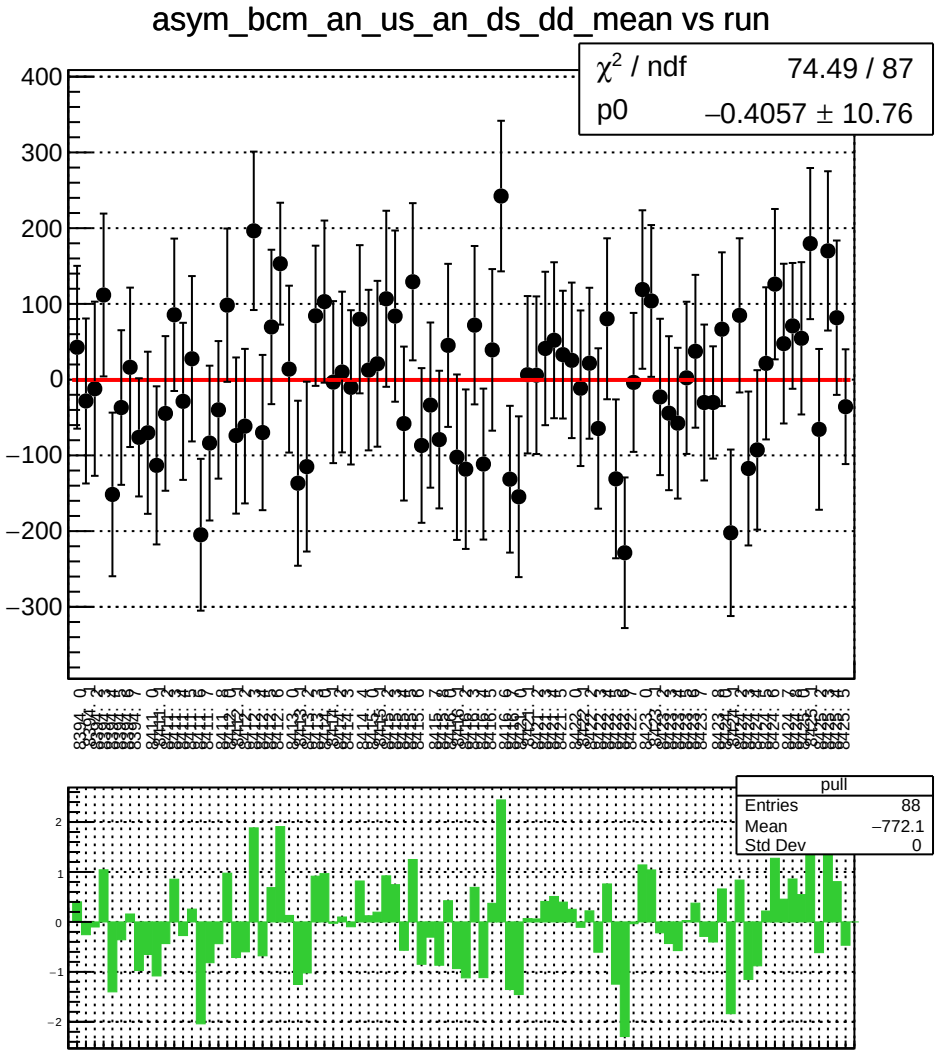

pull1D
Entries 88
Mean 0.001551
Std Dev 0.479

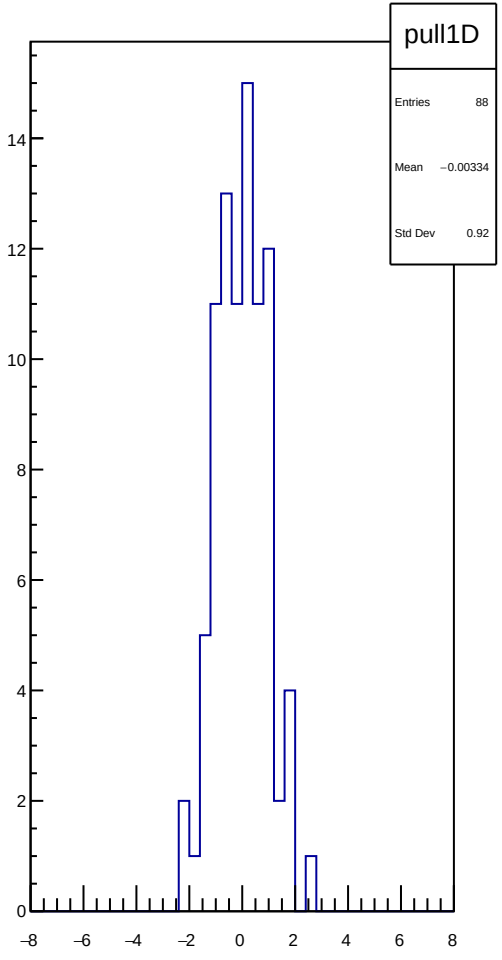

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 4306 / 87
p0 67.85 ± 0.05221
75
70
65
60
55

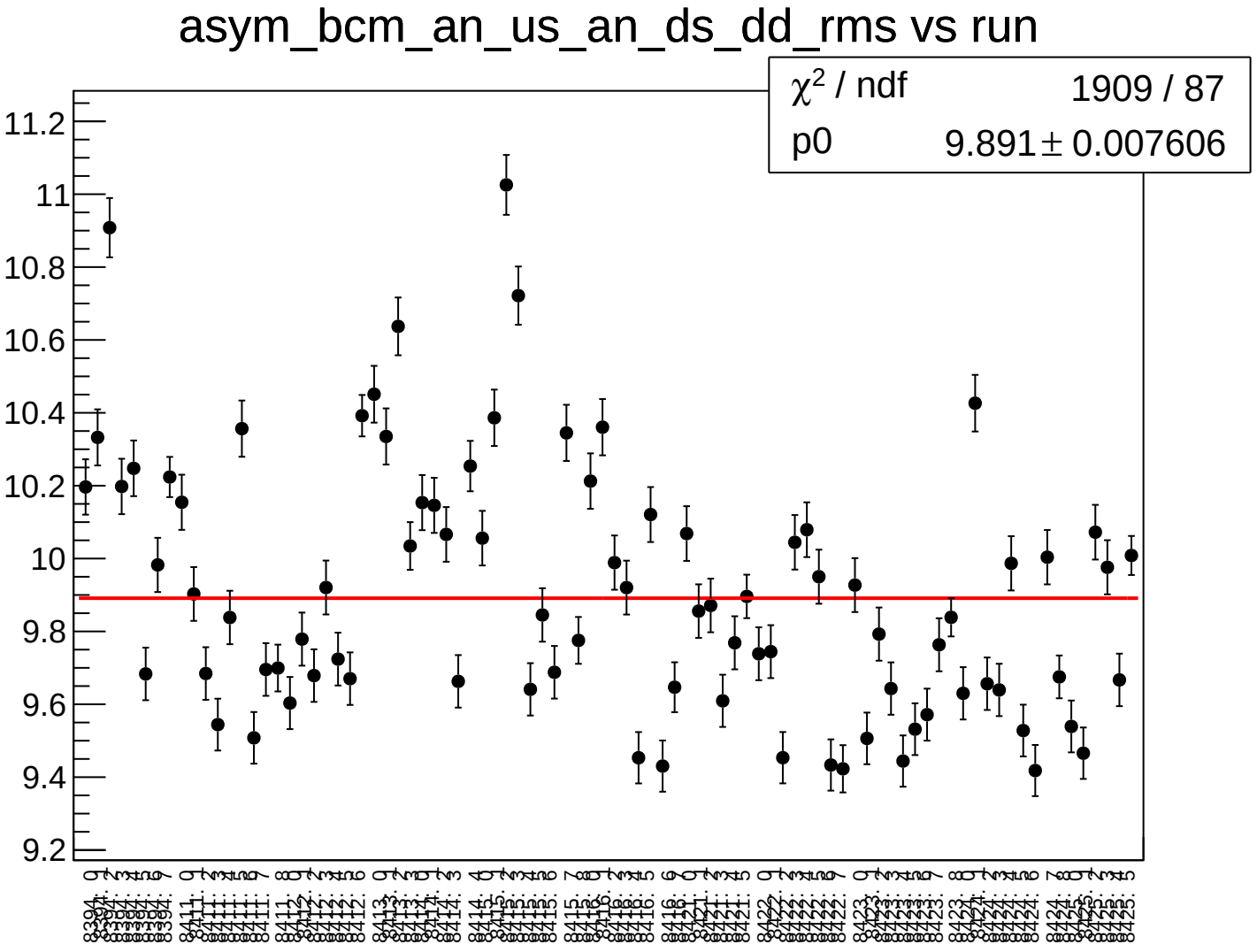

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 20.12 / 87
p0 471.9 ± 217.2
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 176.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

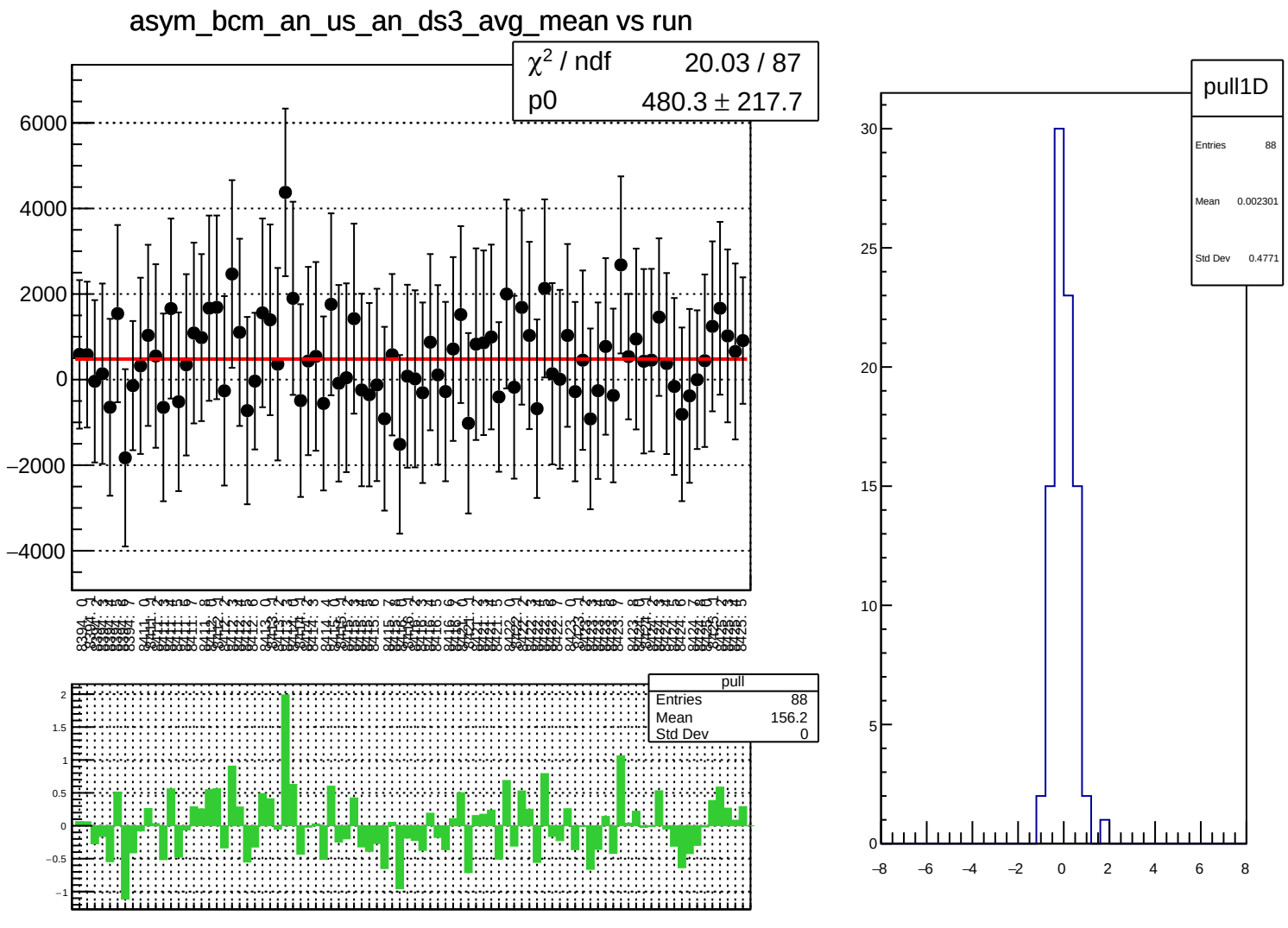

pull1D
Entries 88
Mean 0.001999
Std Dev 0.4782
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

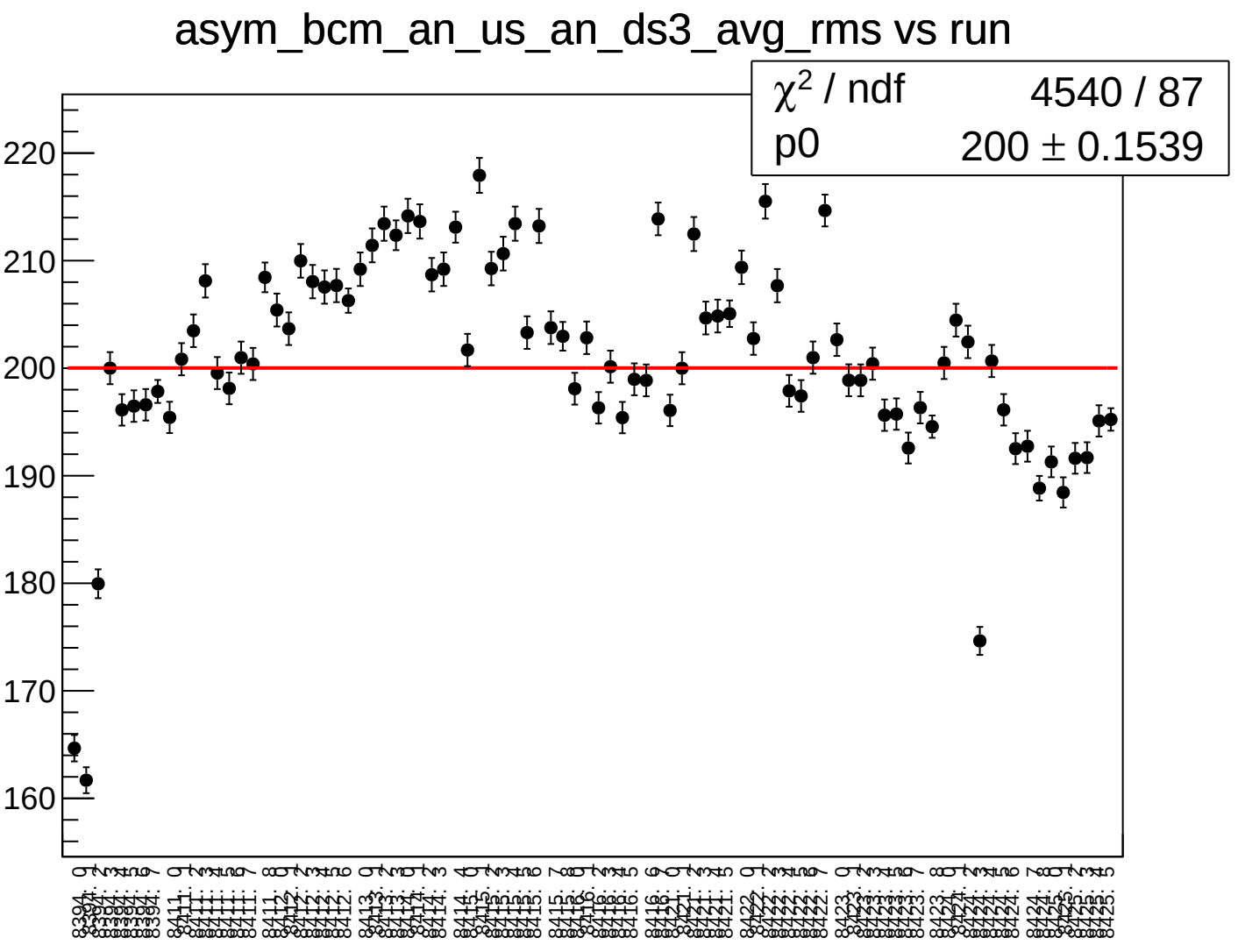

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 4546 / 87
p0 199.6 ± 0.1536
220
210
200
190
180
170
160

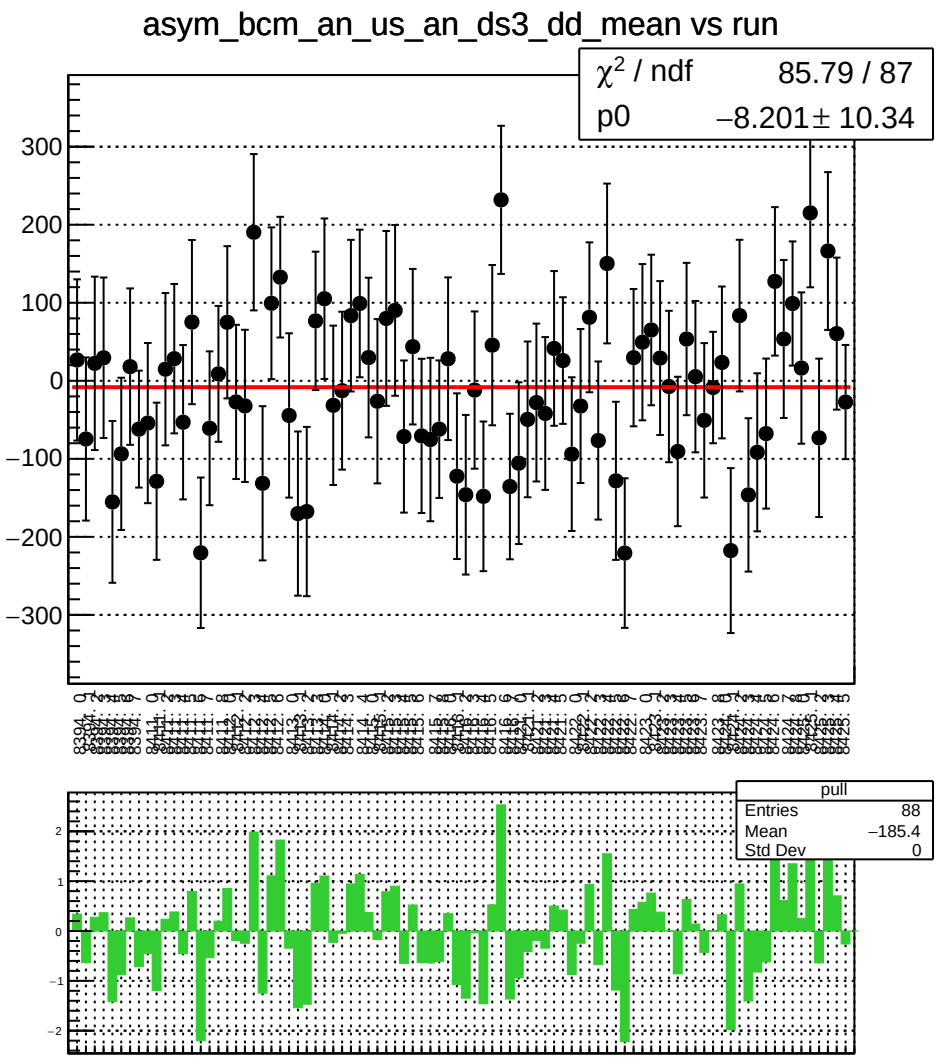

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 74.49 / 87
p0 −0.4057 ± 10.76
pull
Entries 88
Mean −772.1
Std Dev 0

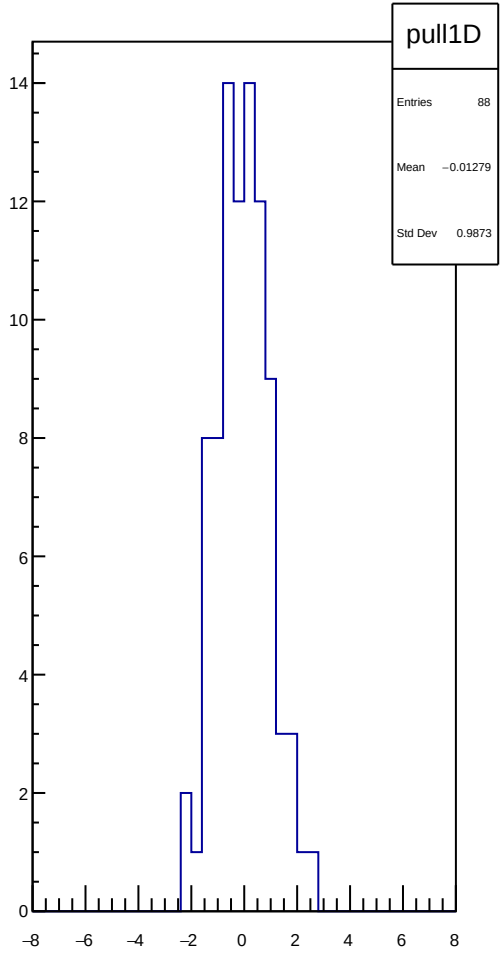

pull1D
Entries 88
Mean −0.00334
Std Dev 0.92

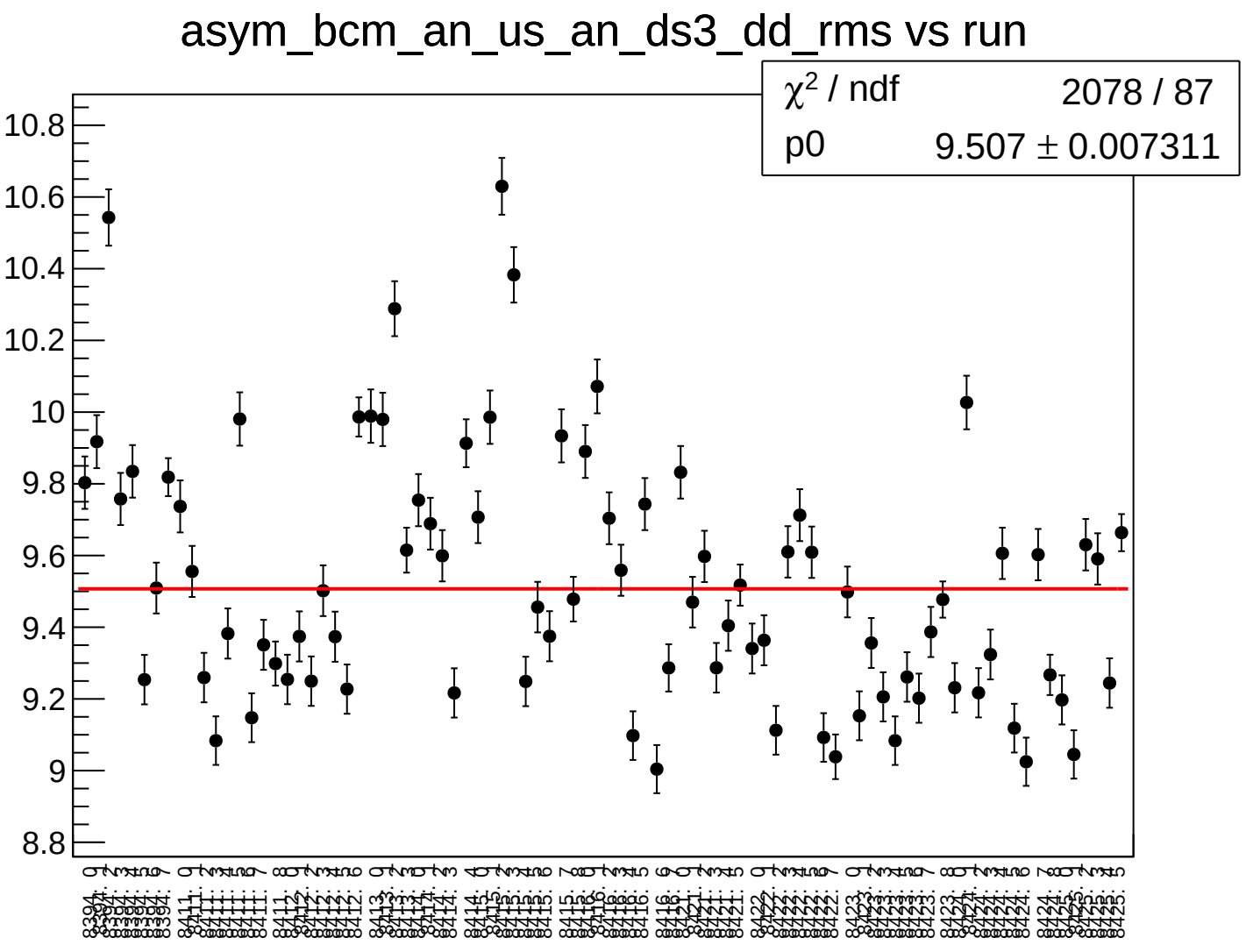

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 1909 / 87
p0 9.891 ± 0.007606
11.2
11
10.8
10.6
10.4
10.2
10
9.8
9.6
9.4
9.2

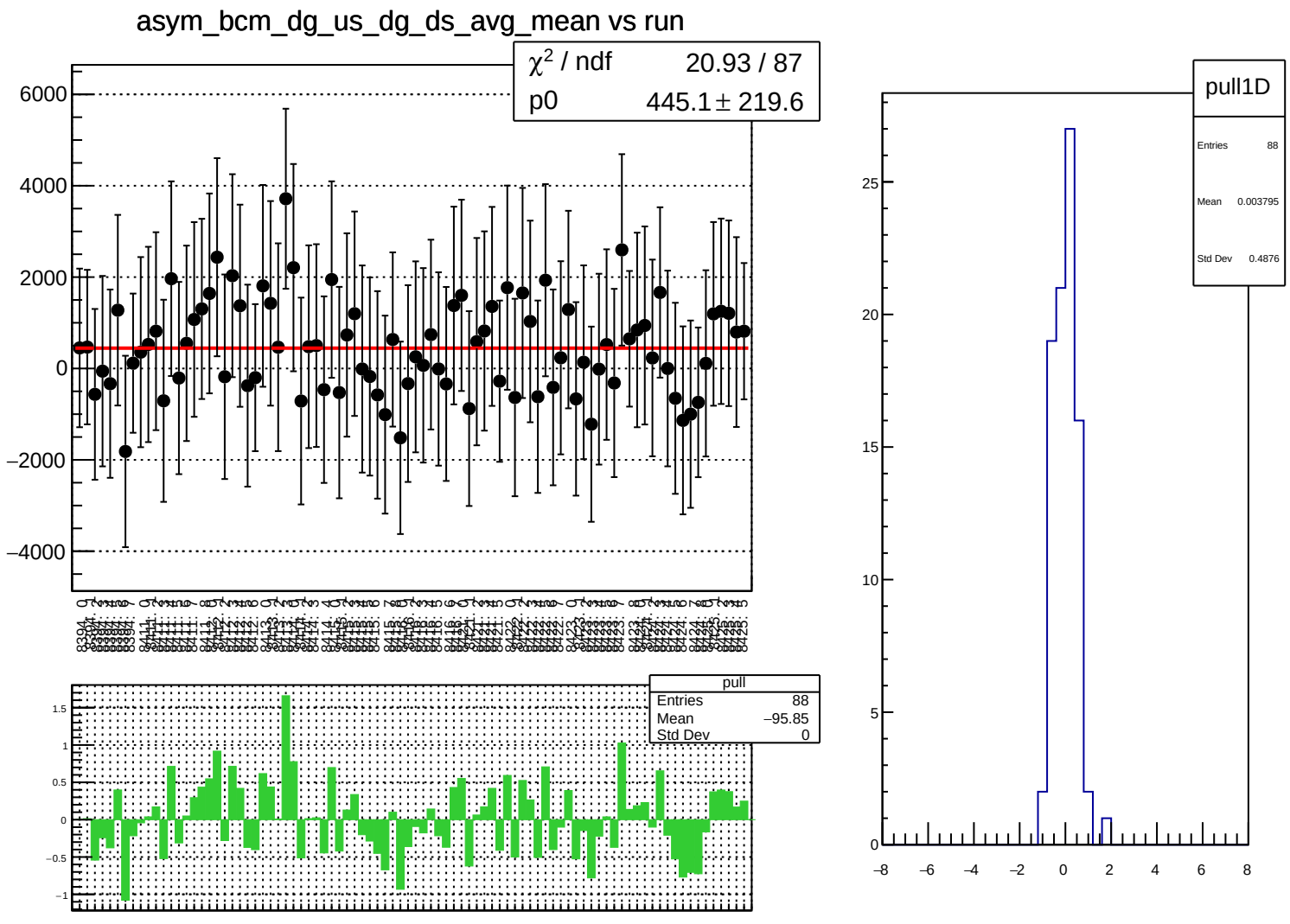

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 20.03 / 87
p0 480.3 ± 217.7
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 156.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.002301
Std Dev 0.4771
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

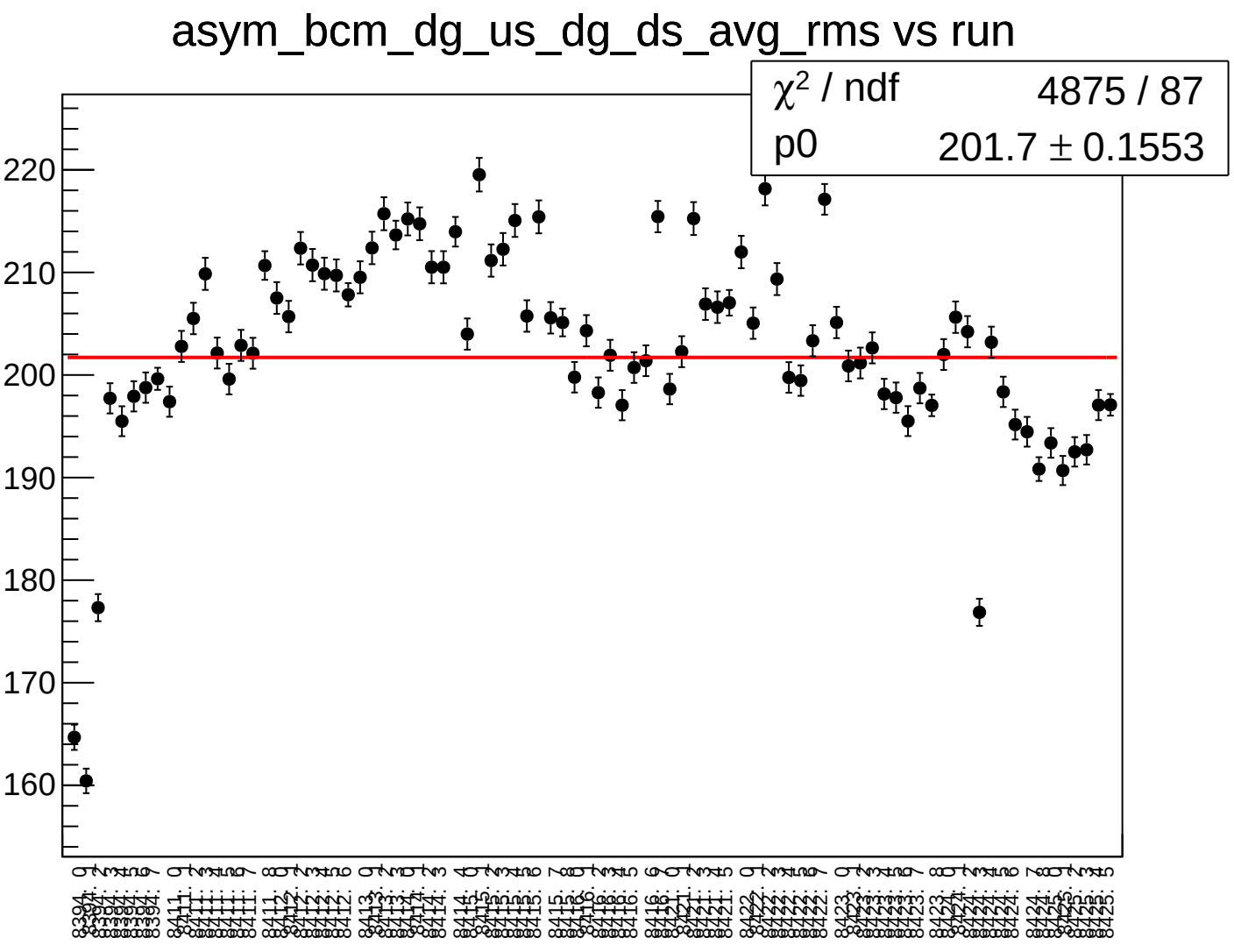

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 4540 / 87
p0 200 ± 0.1539
220
210
200
190
180
170
160

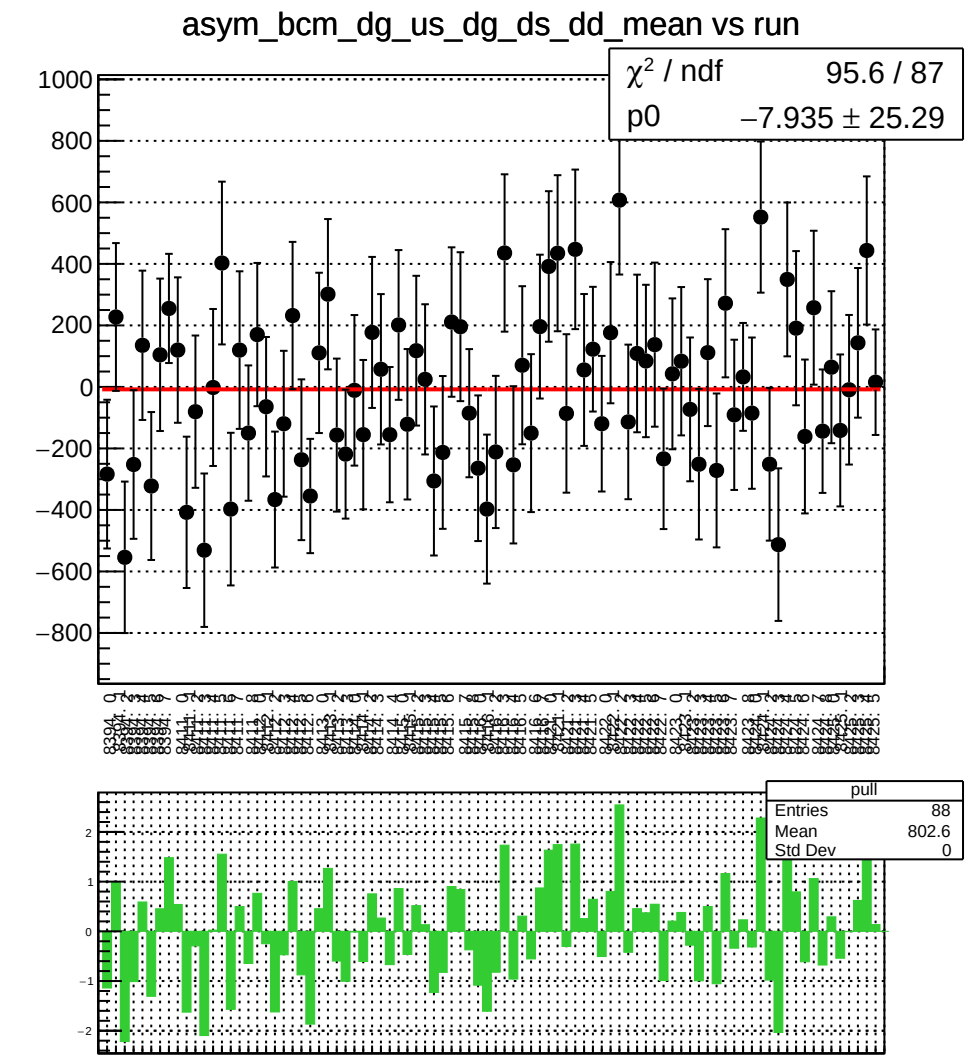

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 85.79 / 87
p0 −8.201 ± 10.34
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −185.4
Std Dev 0
2
1
0
−1
−2

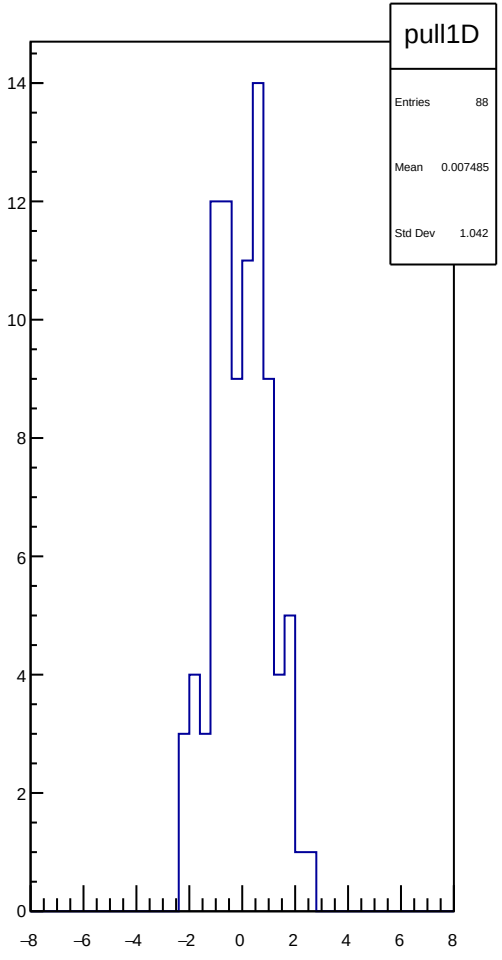

pull1D
Entries 88
Mean −0.01279
Std Dev 0.9873
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

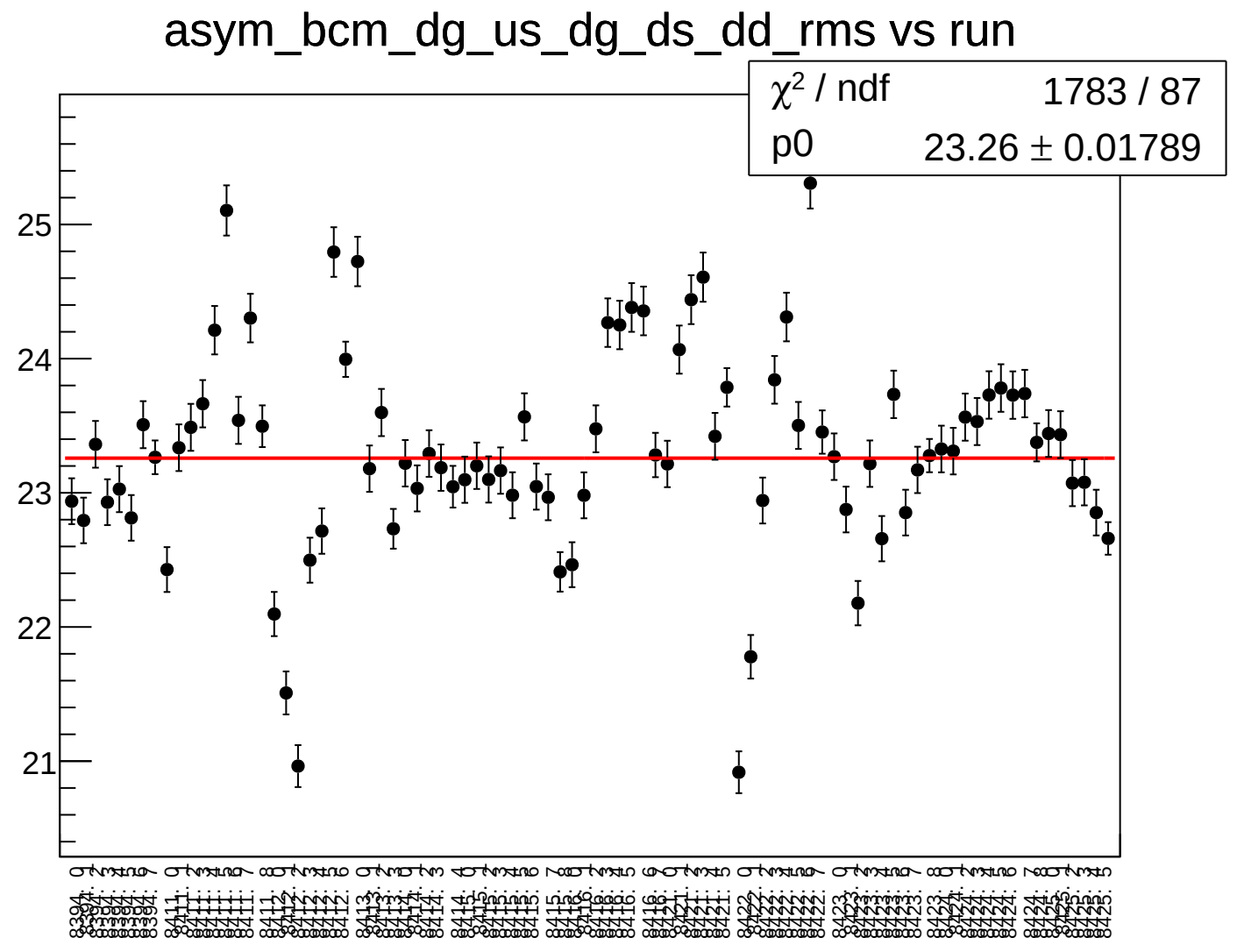

asym_bcm_an_us_an_ds3_dd_rms vs run
χ^2 / ndf 2078 / 87
p0 9.507 ± 0.007311
10.8
10.6
10.4
10.2
10
9.8
9.6
9.4
9.2
9
8.8

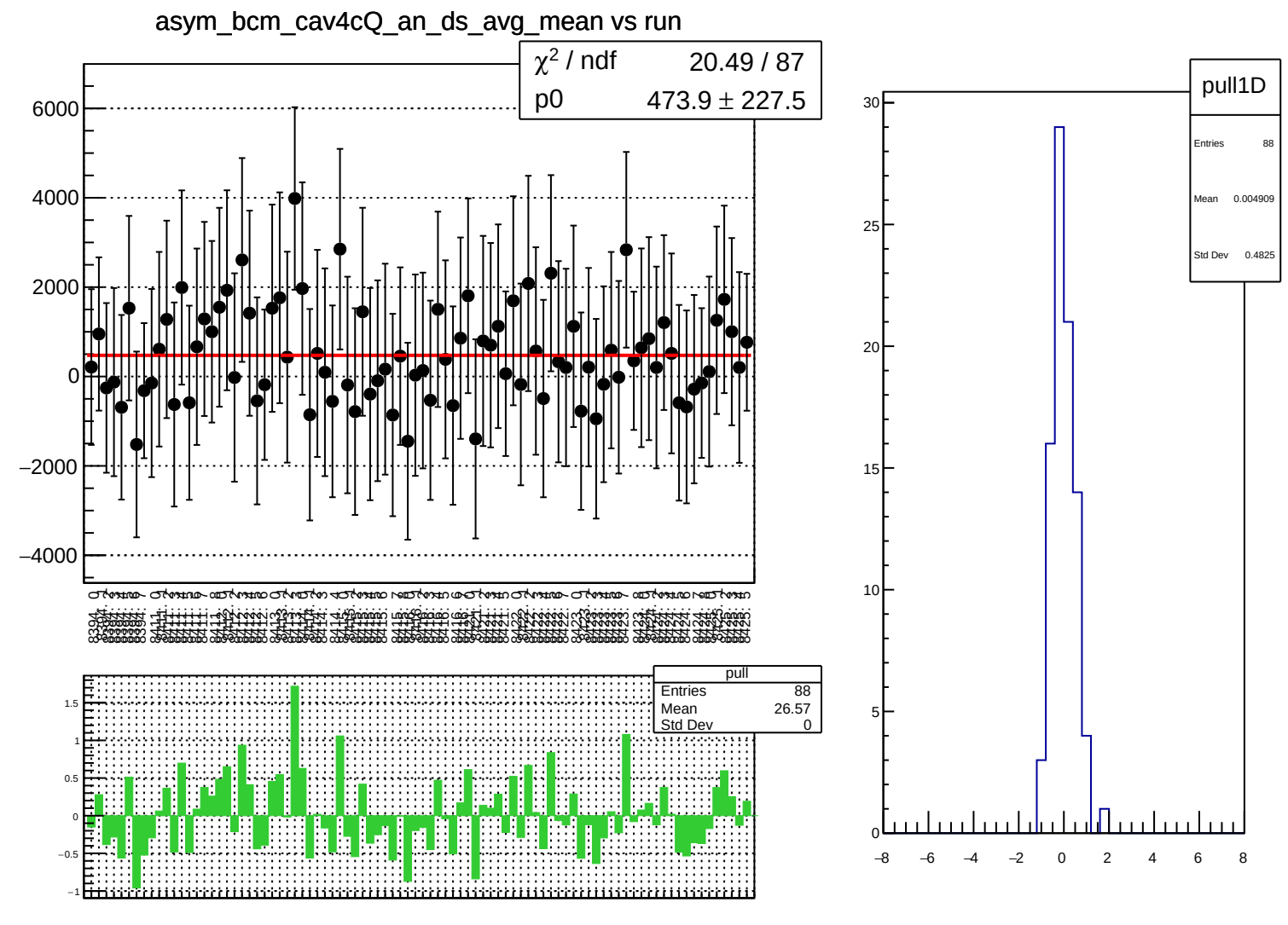

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 20.93 / 87
p0 445.1 ± 219.6
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −95.85
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.003795
Std Dev 0.4876
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

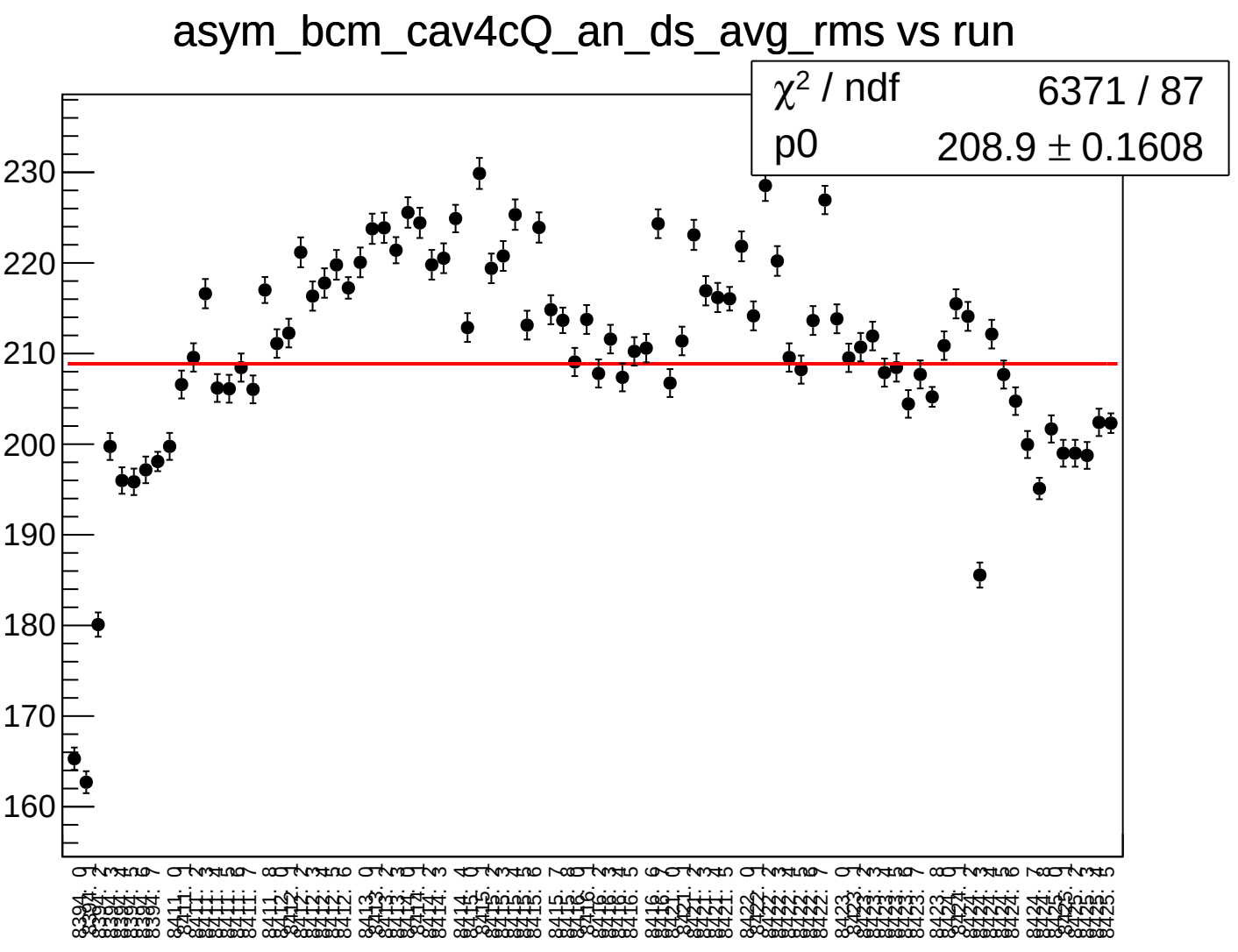

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 4875 / 87
p0 201.7 ± 0.1553
220
210
200
190
180
170
160

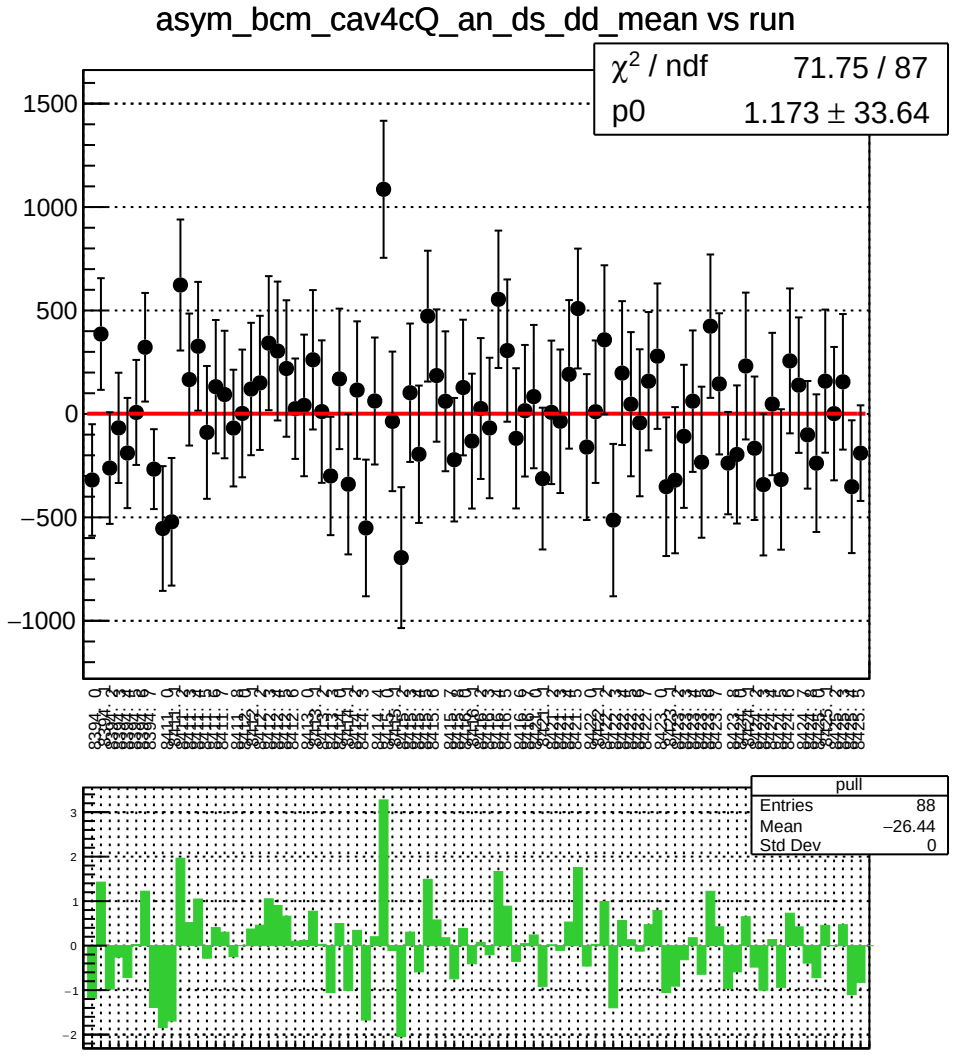

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 95.6 / 87
p0 −7.935 ± 25.29
pull
Entries 88
Mean 802.6
Std Dev 0

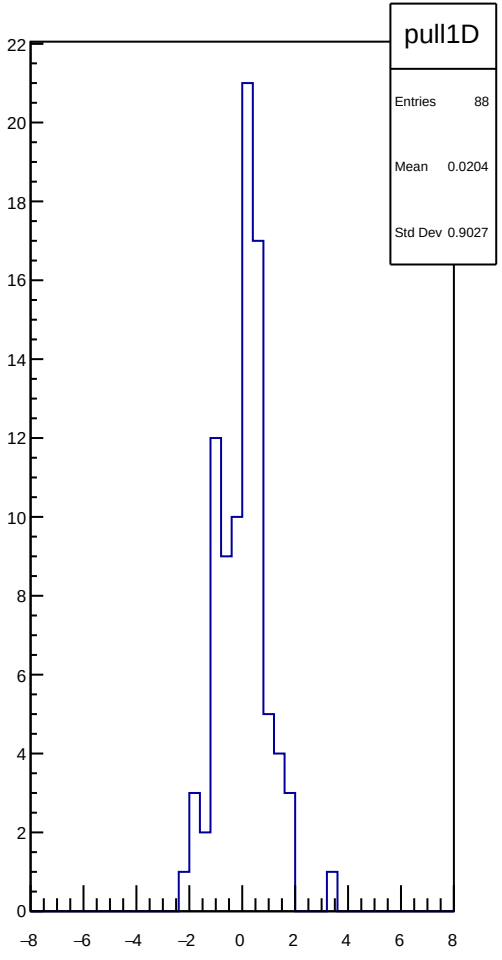

pull1D
Entries 88
Mean 0.007485
Std Dev 1.042

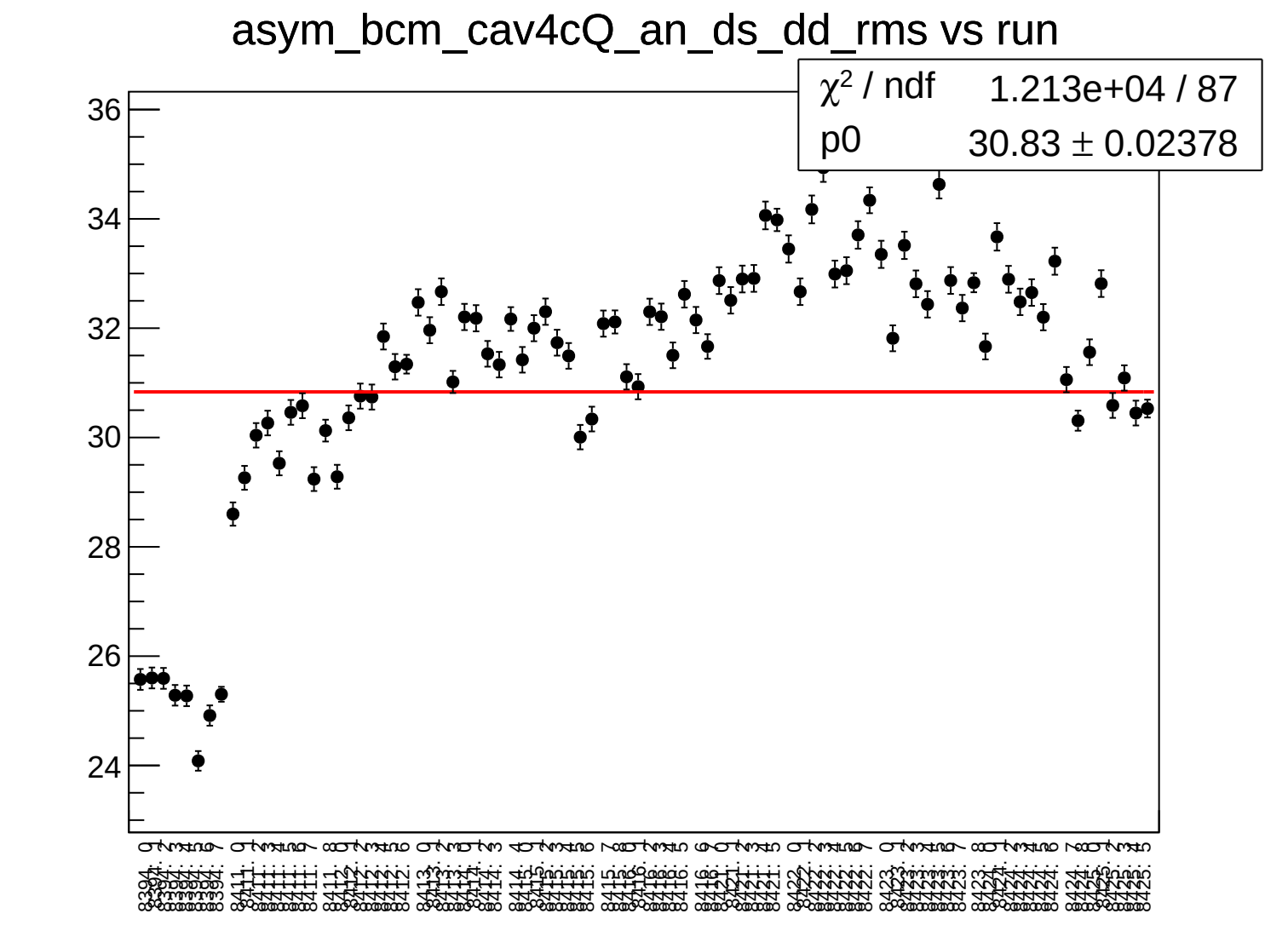

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 1783 / 87
p0 23.26 ± 0.01789
25
24
23
22
21

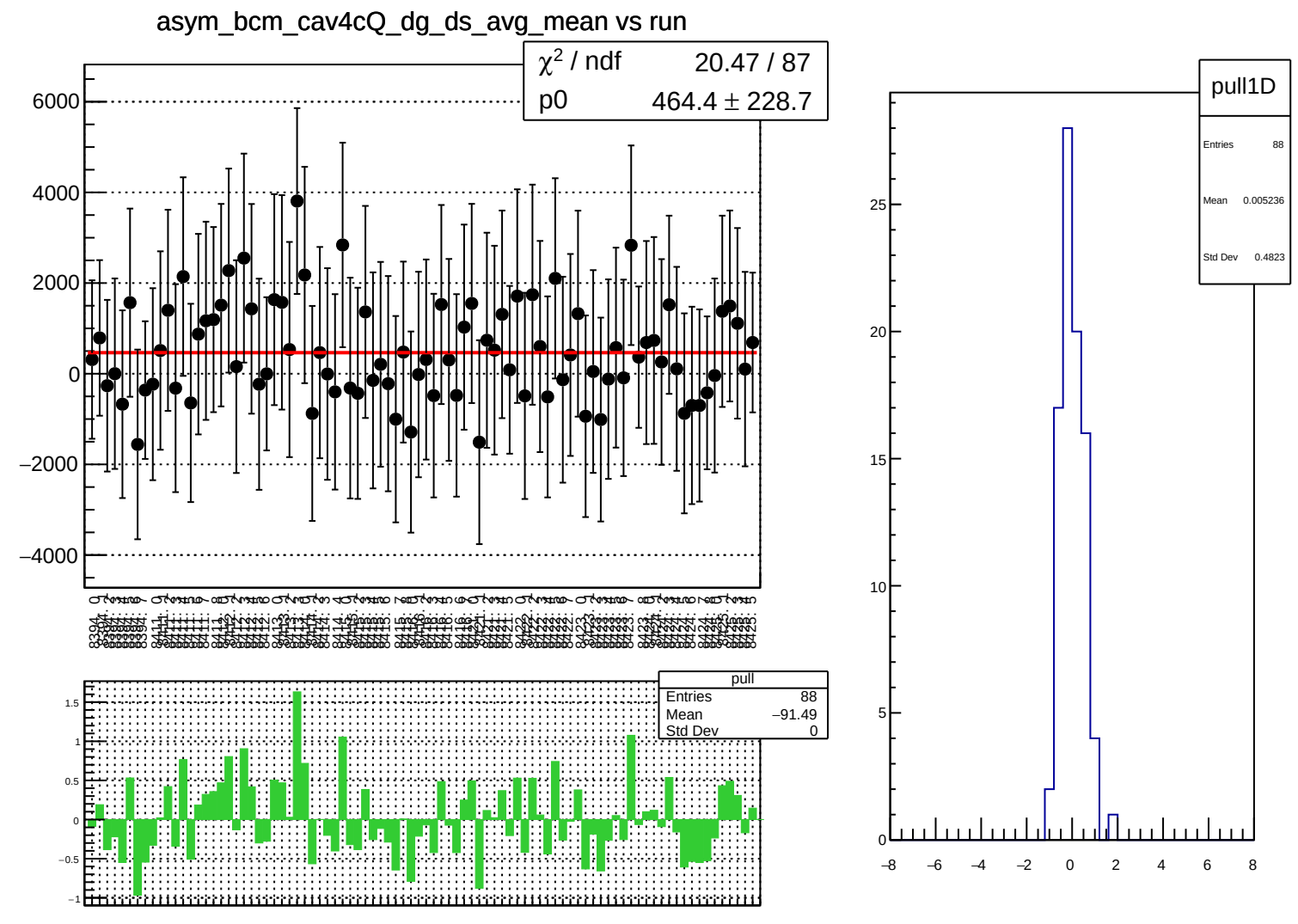

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 20.49 / 87
p0 473.9 ± 227.5
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 26.57
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.004909
Std Dev 0.4825
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

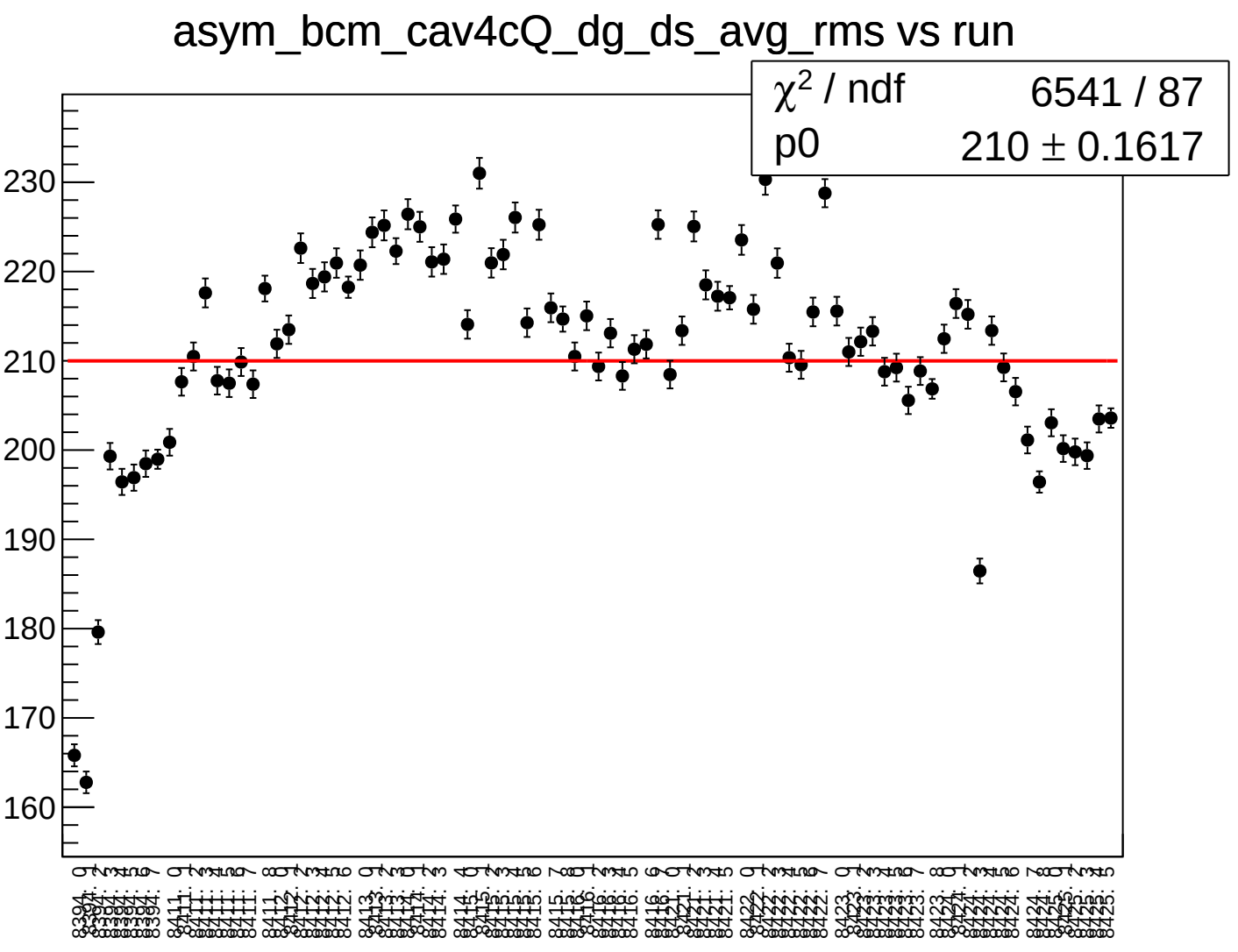

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 6371 / 87
p0 208.9 ± 0.1608
230
220
210
200
190
180
170
160

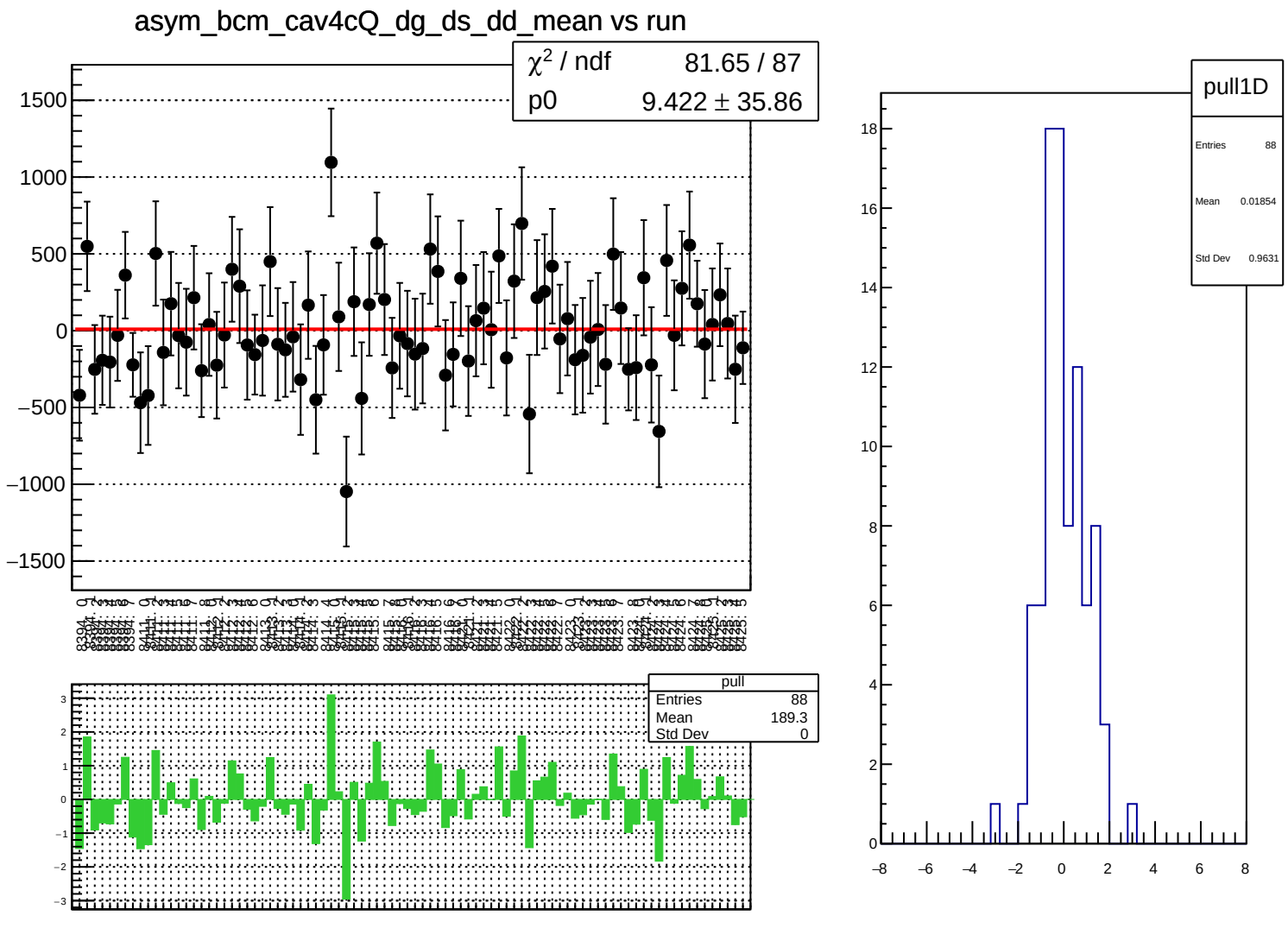

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 71.75 / 87
p0 1.173 ± 33.64
1500
1000
500
0
−500
−1000
pull
Entries 88
Mean −26.44
Std Dev 0
3
2
1
0
−1
−2

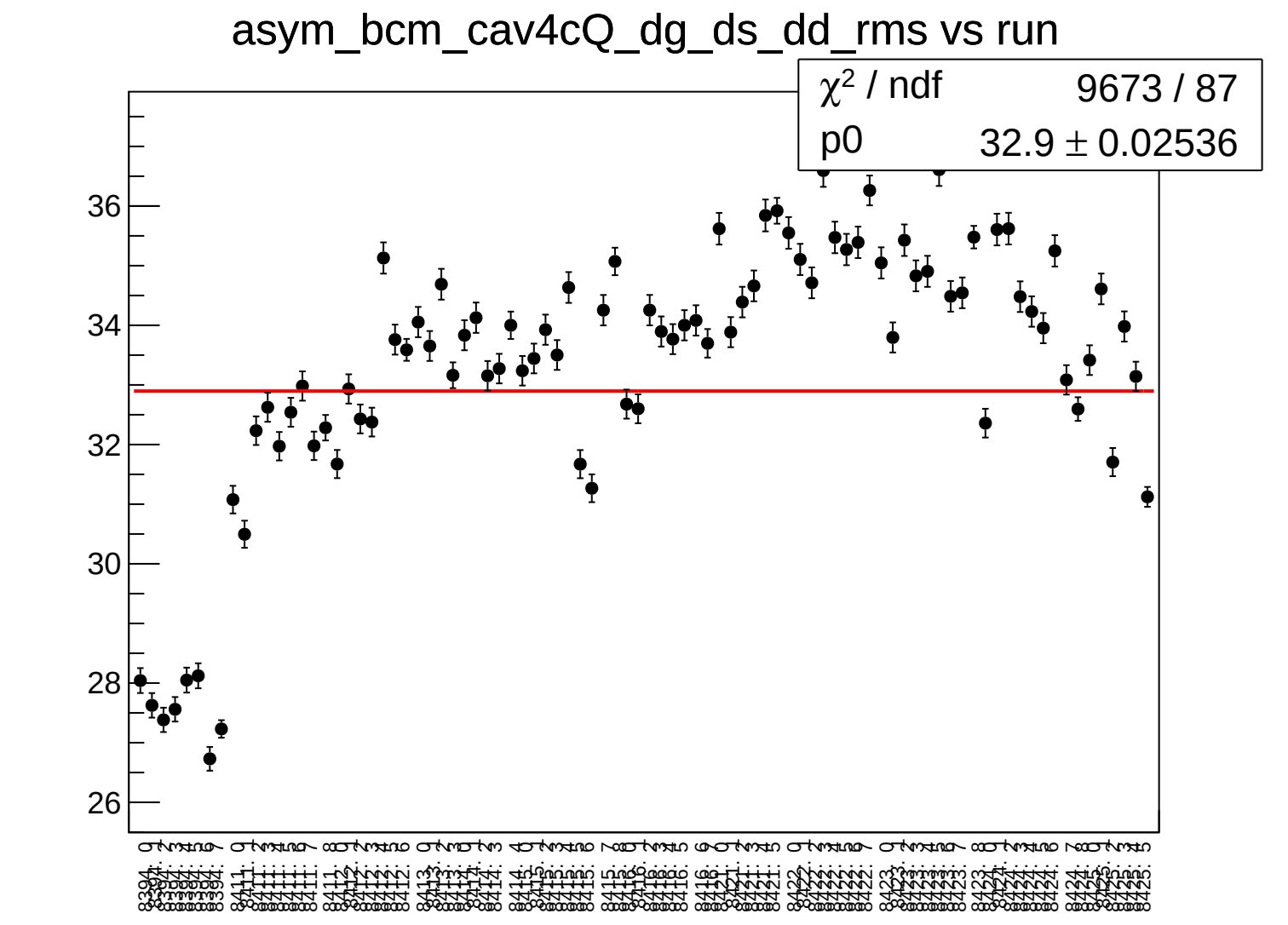

pull1D
Entries 88
Mean 0.0204
Std Dev 0.9027
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

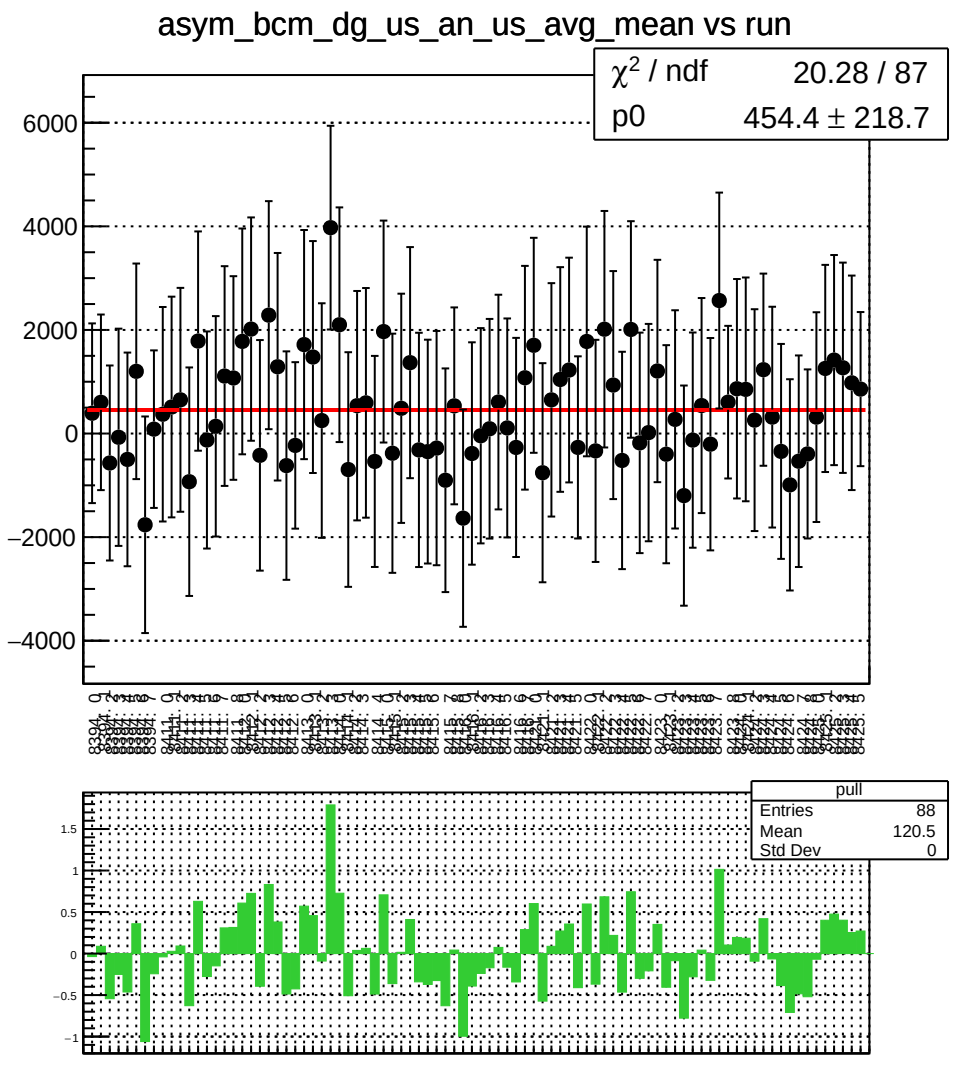

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 1.213e+04 / 87
p0 30.83 ± 0.02378
36
34
32
30
28
26
24

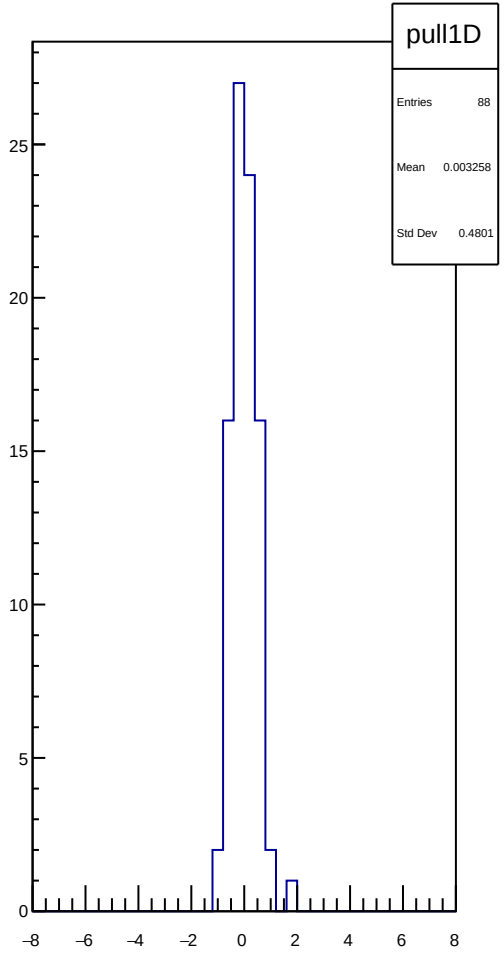

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 20.47 / 87
p0 464.4 ± 228.7
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −91.49
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.005236
Std Dev 0.4823
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

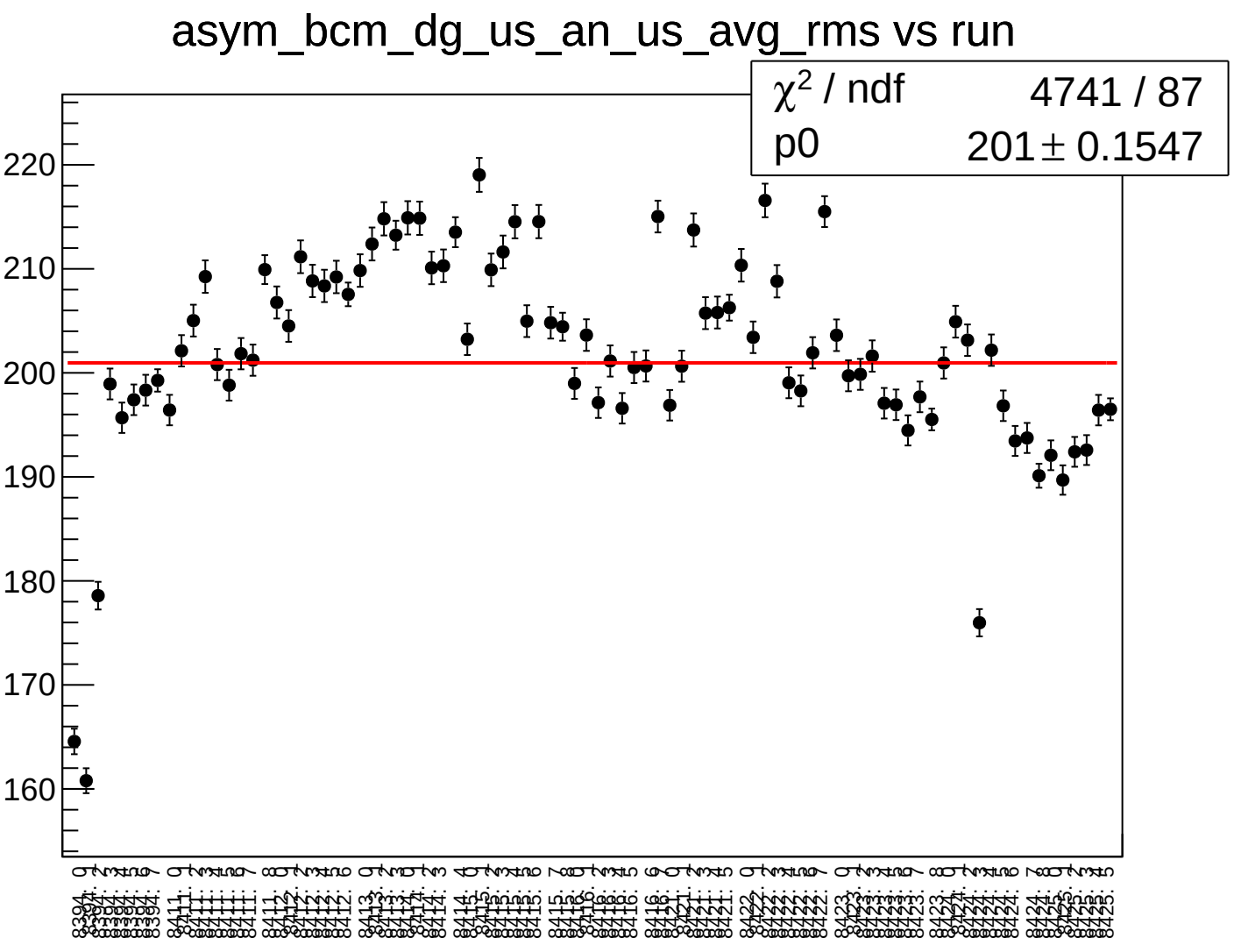

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 6541 / 87
p0 210 ± 0.1617
230
220
210
200
190
180
170
160

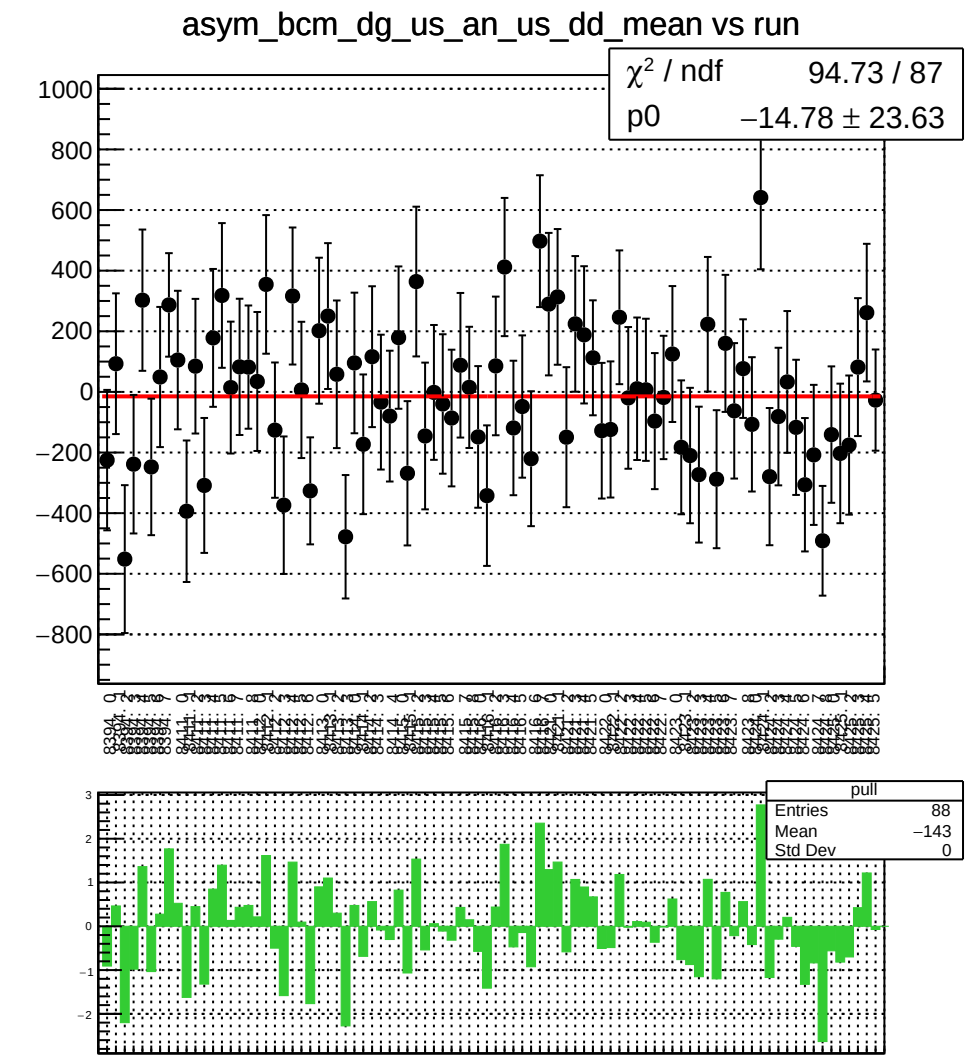

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 81.65 / 87
p0 9.422 ± 35.86
1500
1000
500
0
−500
−1000
−1500
pull
Entries 88
Mean 189.3
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.01854
Std Dev 0.9631
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

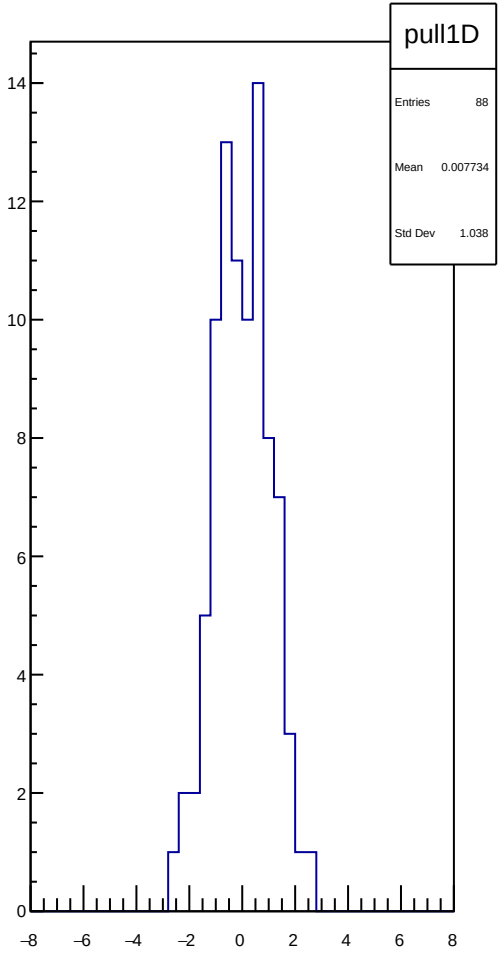

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 9673 / 87
p0 32.9 ± 0.02536
36
34
32
30
28
26

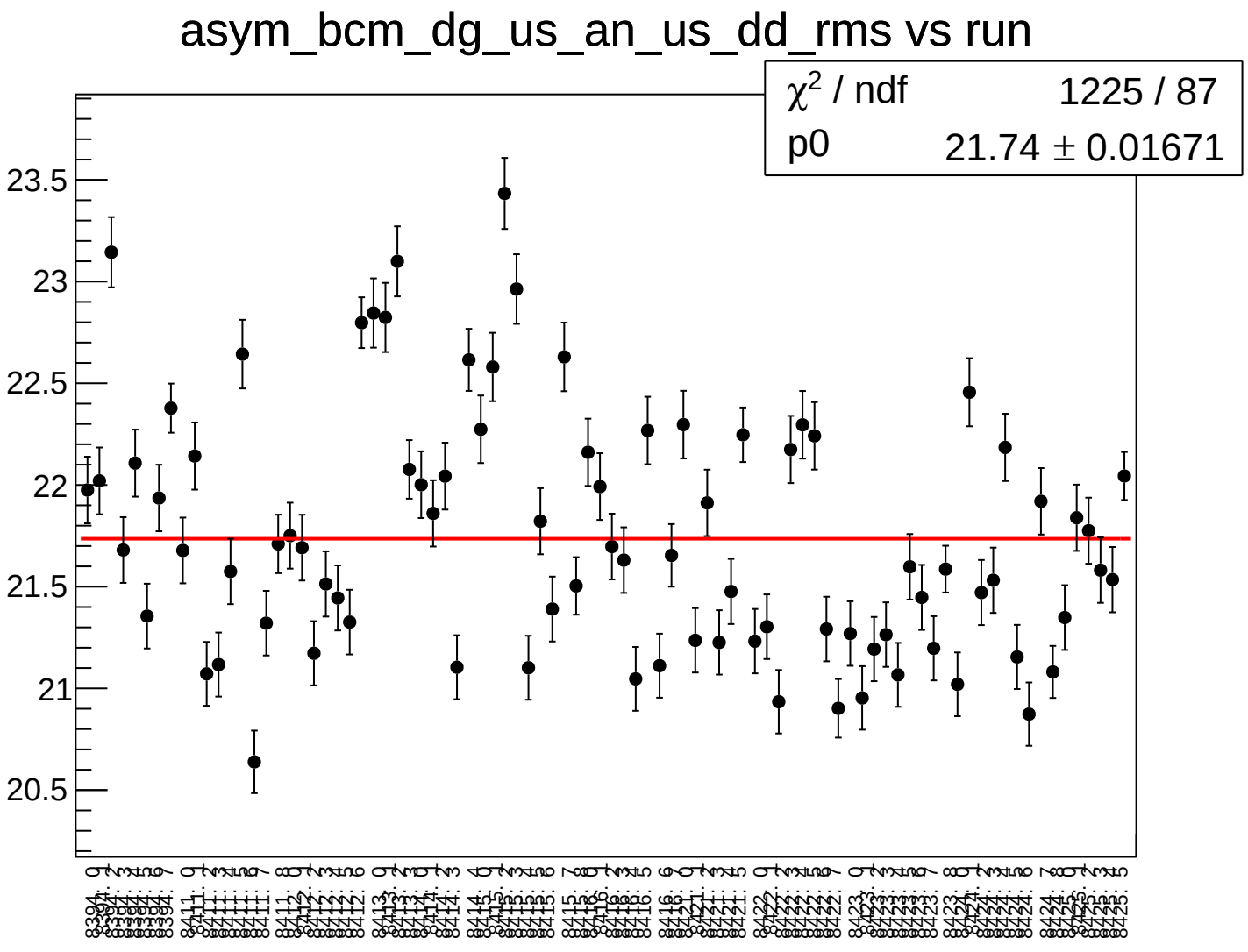

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 20.28 / 87
p0 454.4 ± 218.7
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 120.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1

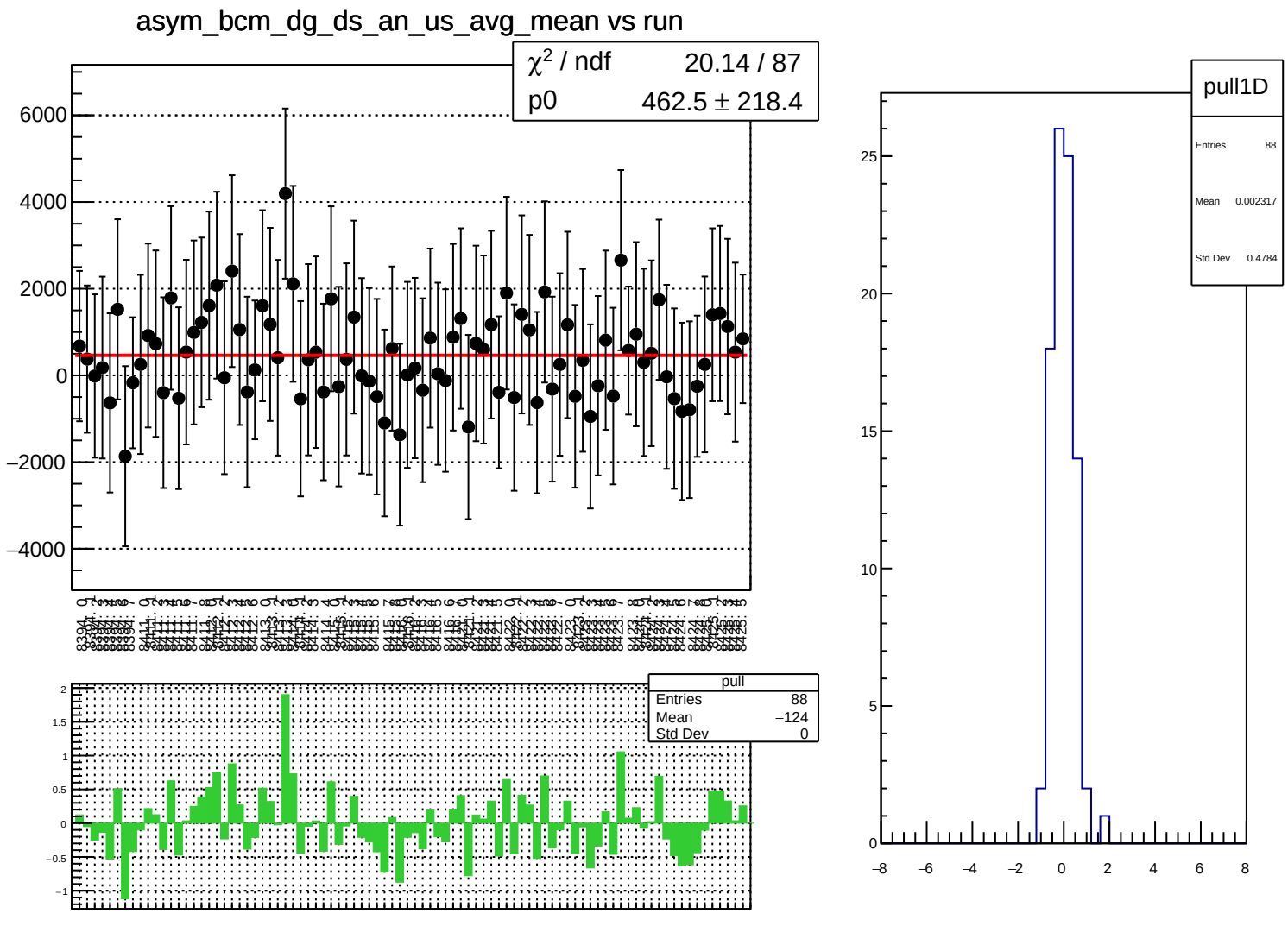

pull1D
Entries 88
Mean 0.003258
Std Dev 0.4801
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

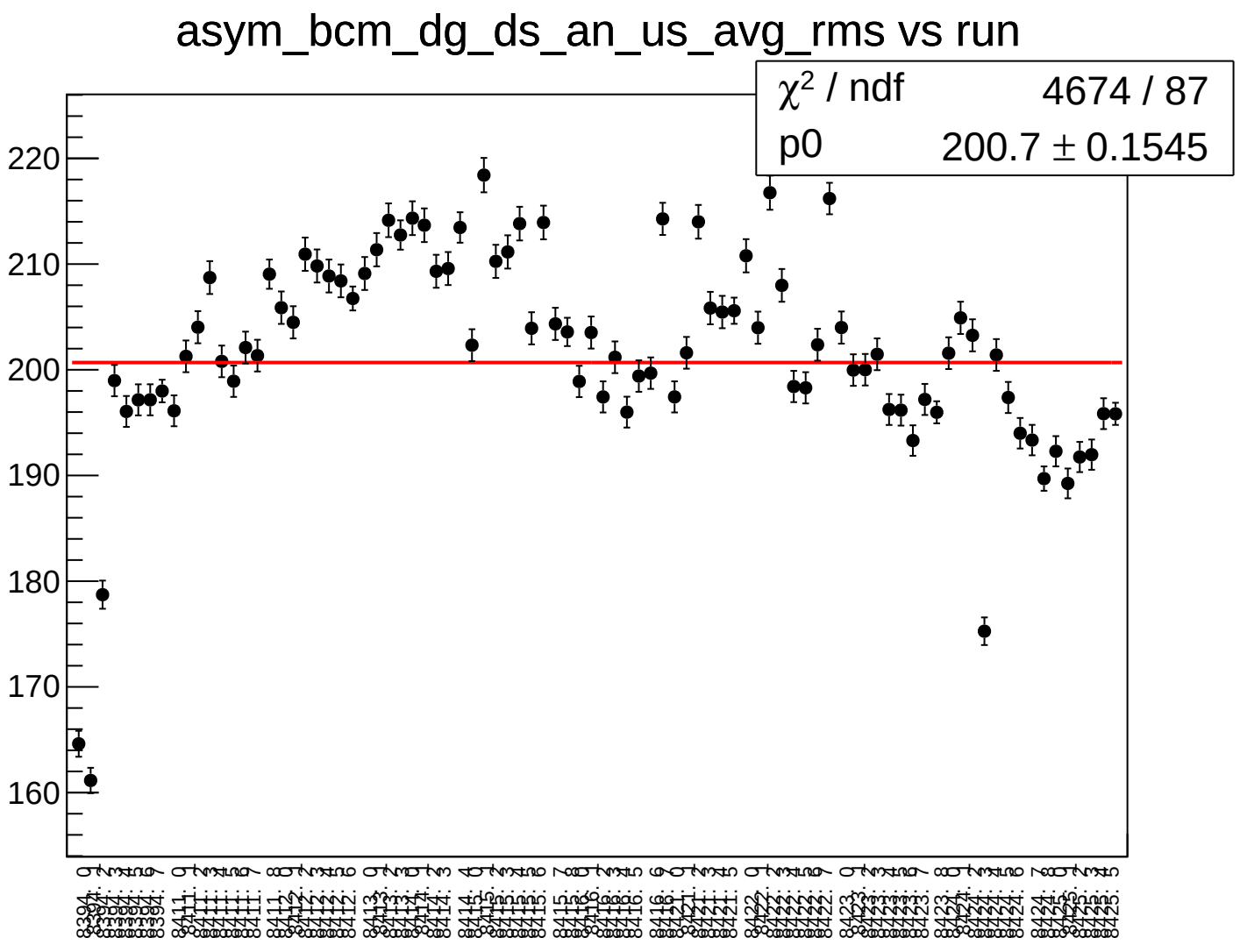

asym_bcm_dg_us_an_us_avg_rms vs run
χ^2 / ndf 4741 / 87
p0 201 ± 0.1547
220
210
200
190
180
170
160

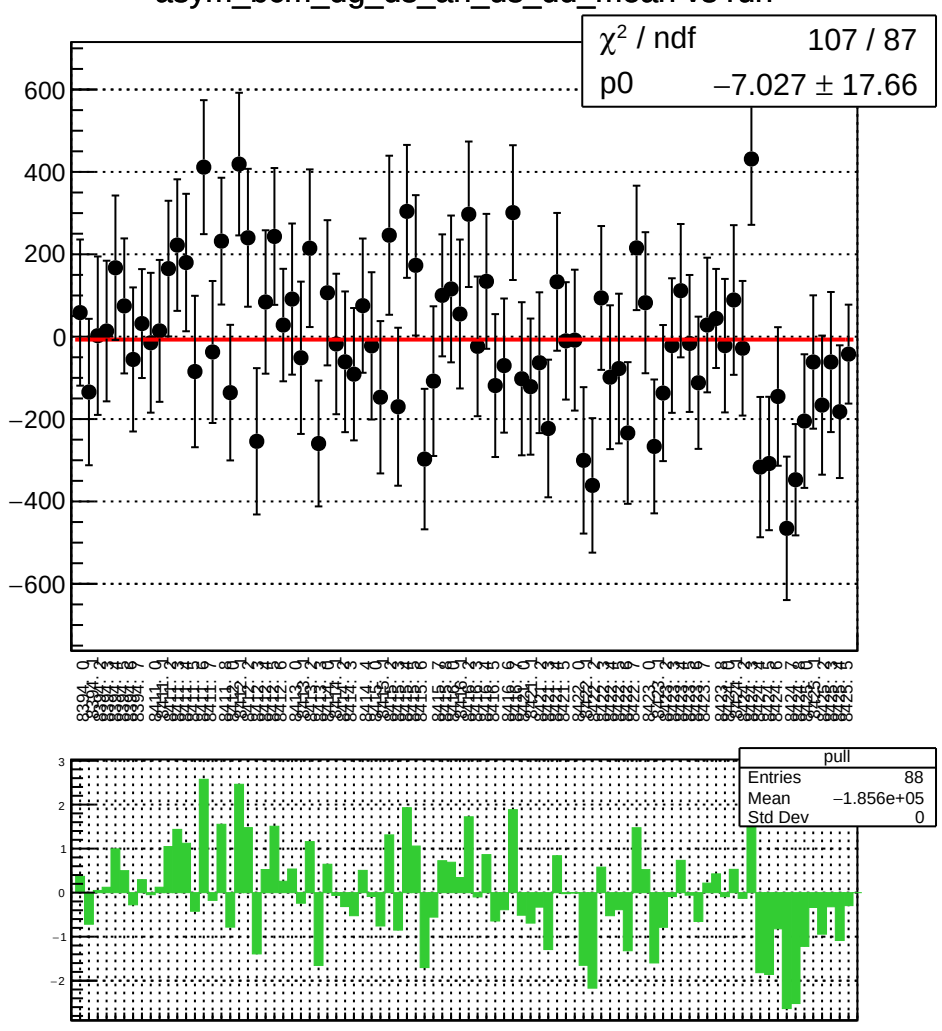

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 94.73 / 87
p0 −14.78 ± 23.63
1000
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 88
Mean −143
Std Dev 0
3
2
1
0
−1
−2

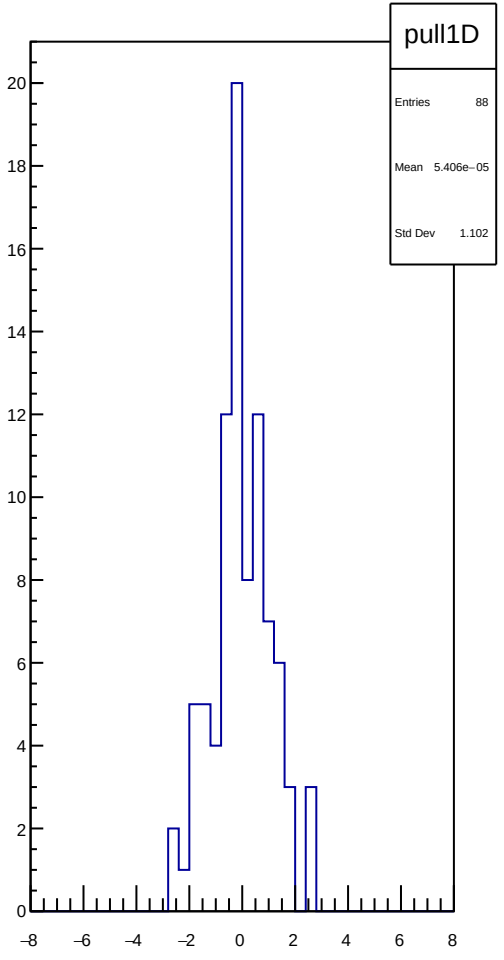

pull1D
Entries 88
Mean 0.007734
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

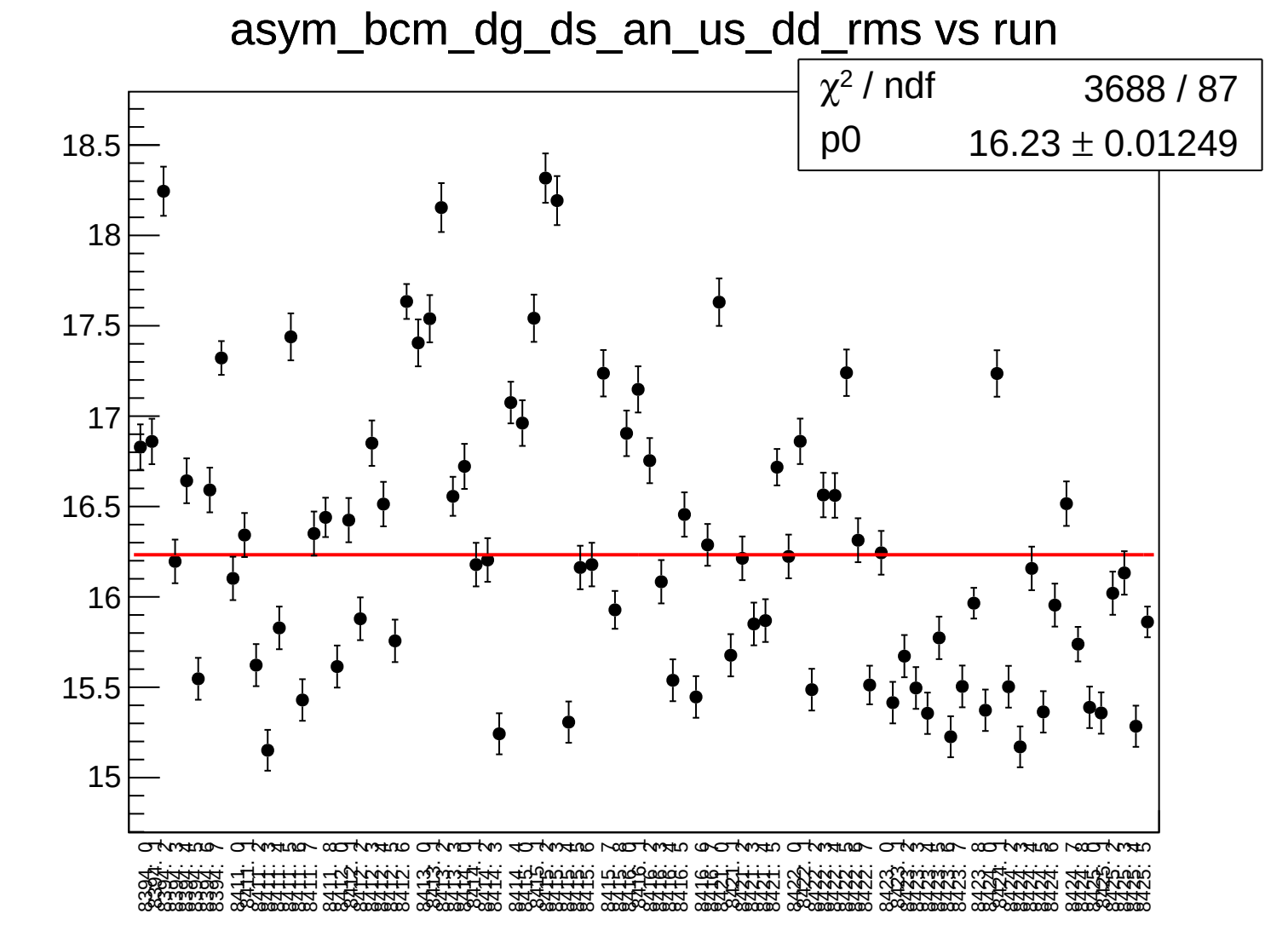

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 1225 / 87
p0 21.74 ± 0.01671
23.5
23
22.5
22
21.5
21
20.5

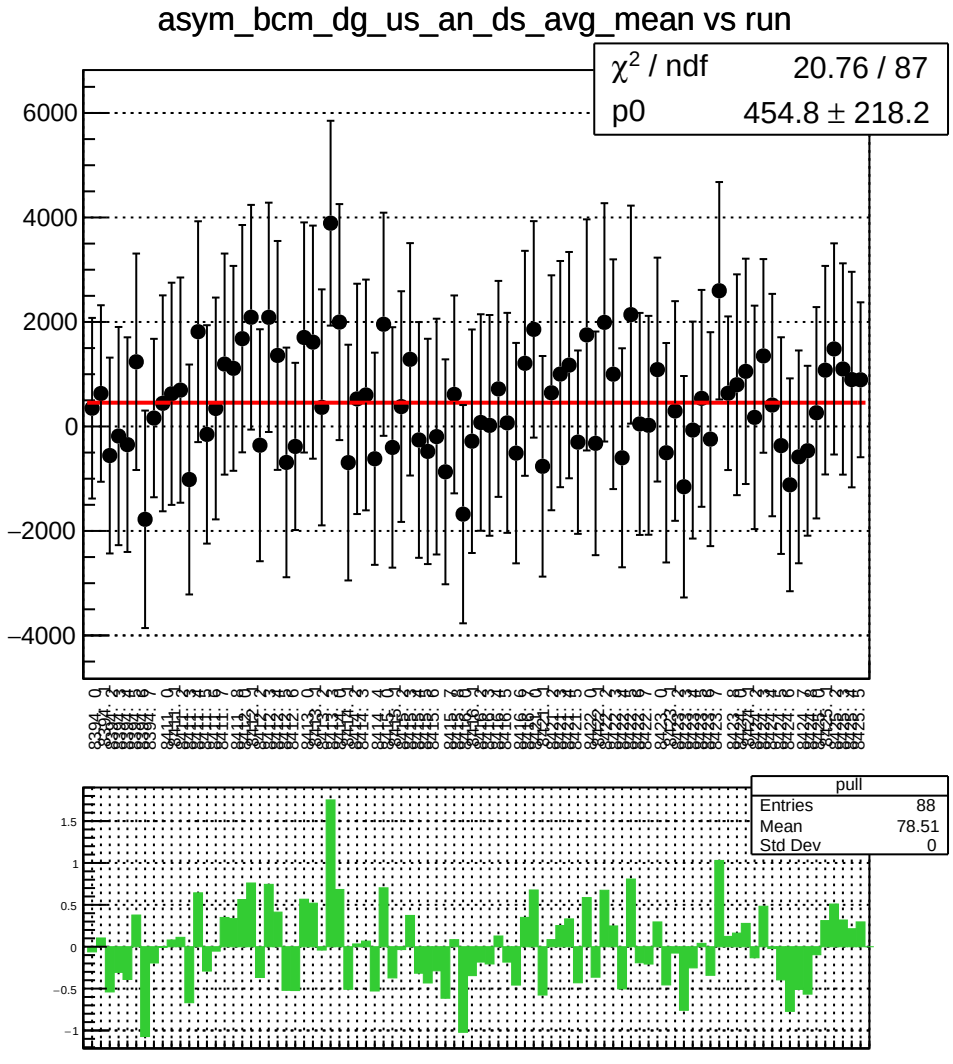

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 20.14 / 87
p0 462.5 ± 218.4
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −124
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.002317
Std Dev 0.4784
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

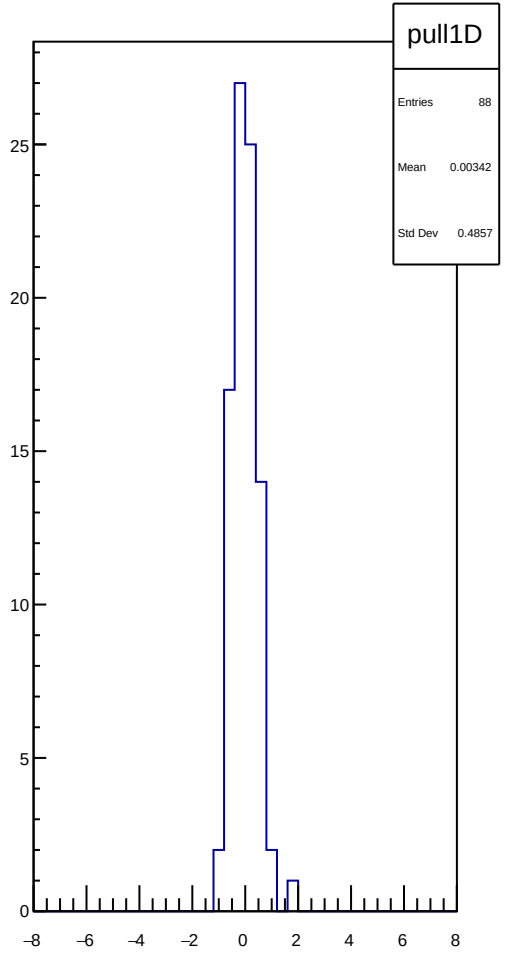

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 4674 / 87
p0 200.7 ± 0.1545
220
210
200
190
180
170
160

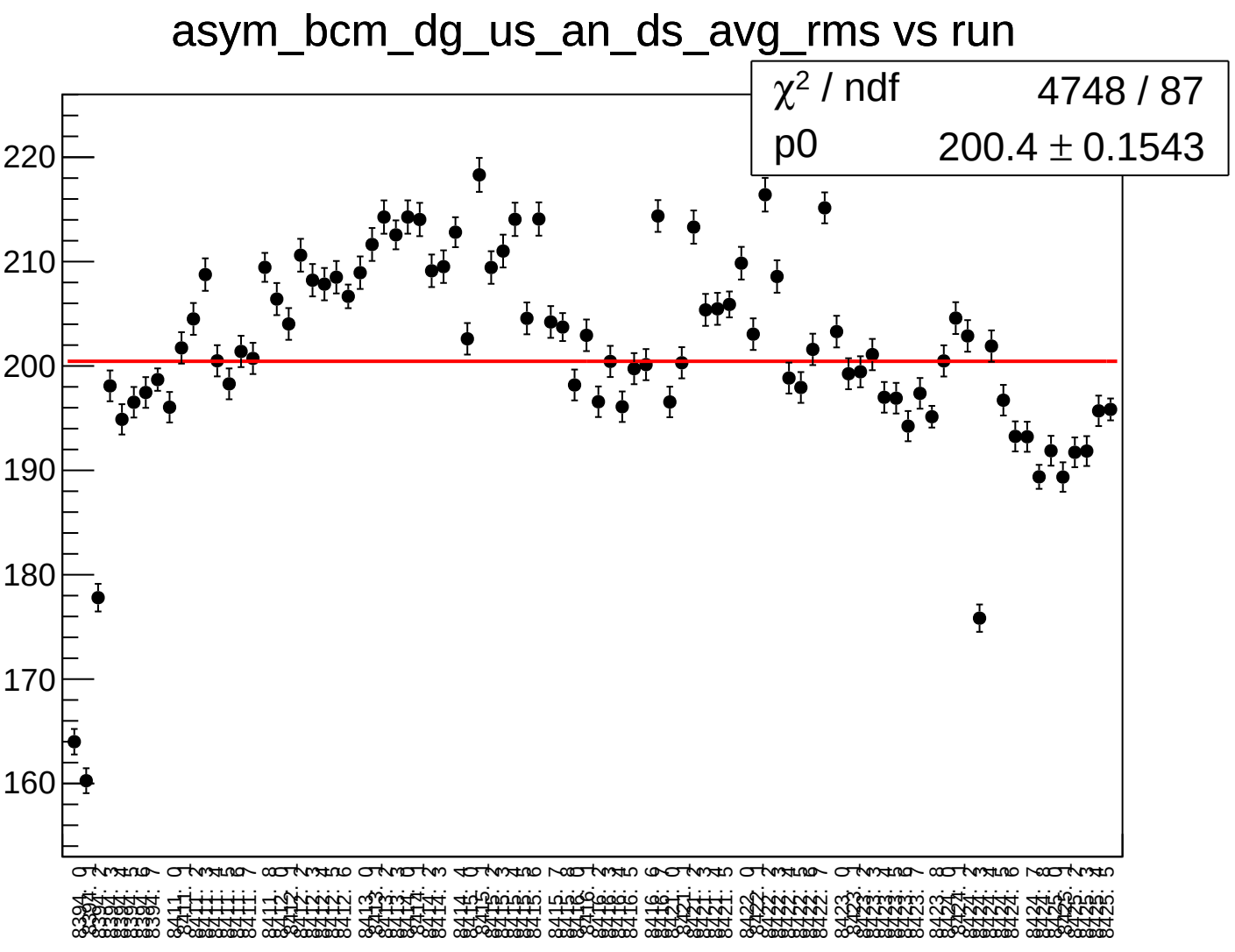

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 107 / 87
p0 −7.027 ± 17.66
pull
Entries 88
Mean −1.856e+05
Std Dev 0

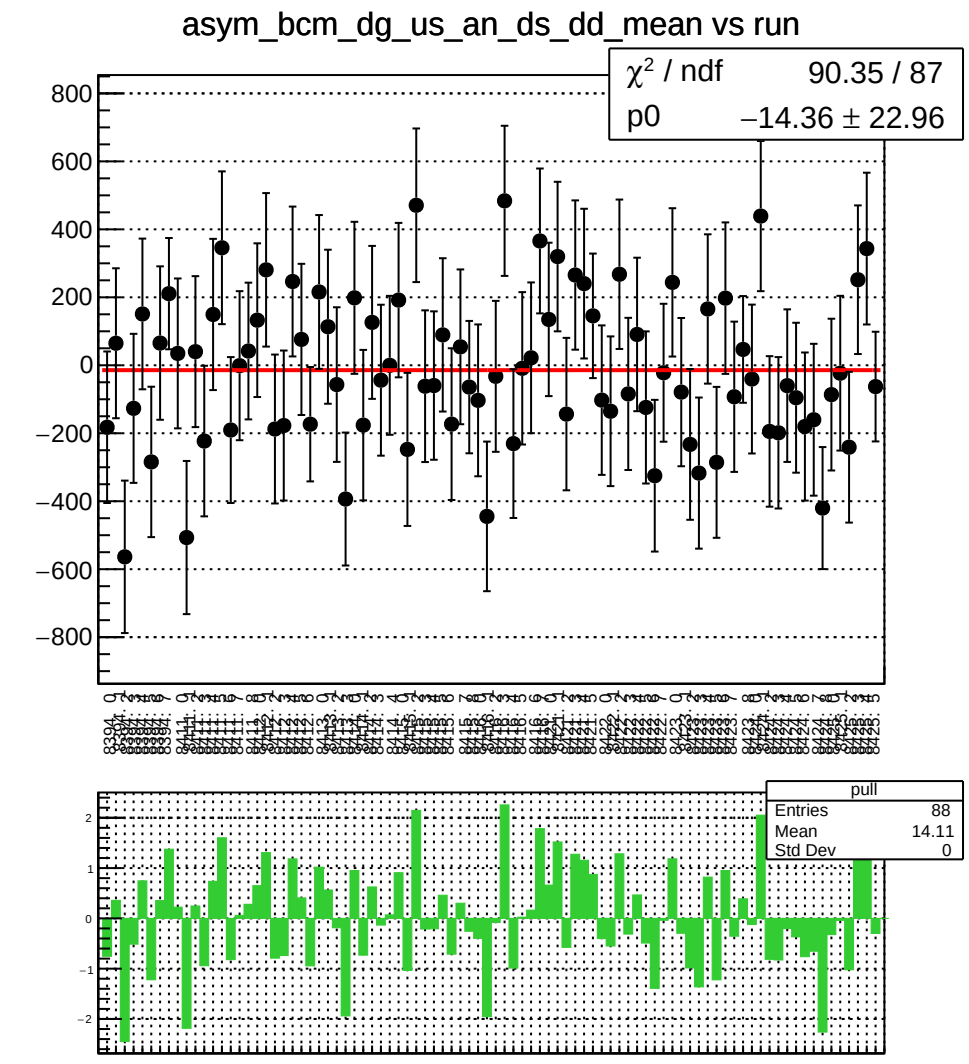

pull1D
Entries 88
Mean 5.406e−05
Std Dev 1.102

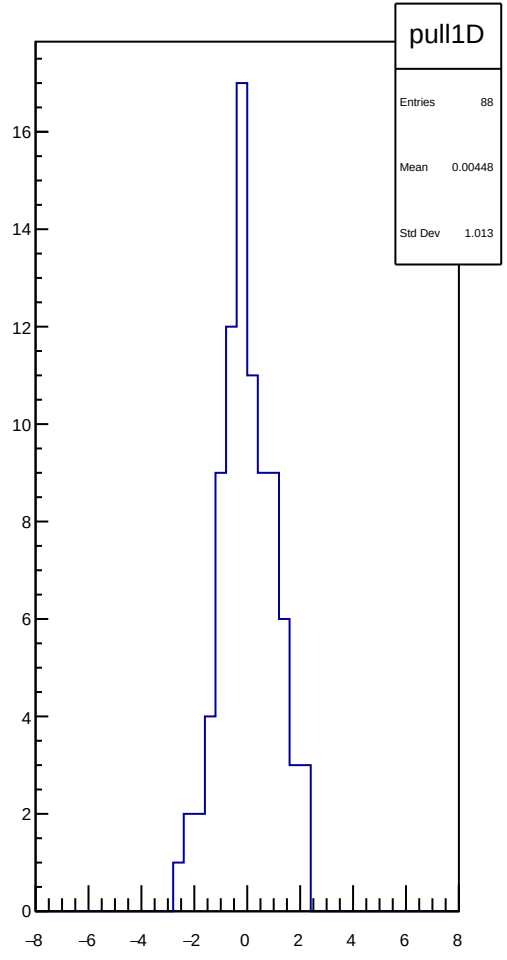

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 3688 / 87
p0 16.23 ± 0.01249
18.5
18
17.5
17
16.5
16
15.5
15


asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 20.76 / 87
p0 454.8 ± 218.2
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 78.51
Std Dev 0
1.5
1
0.5
0
−0.5
−1

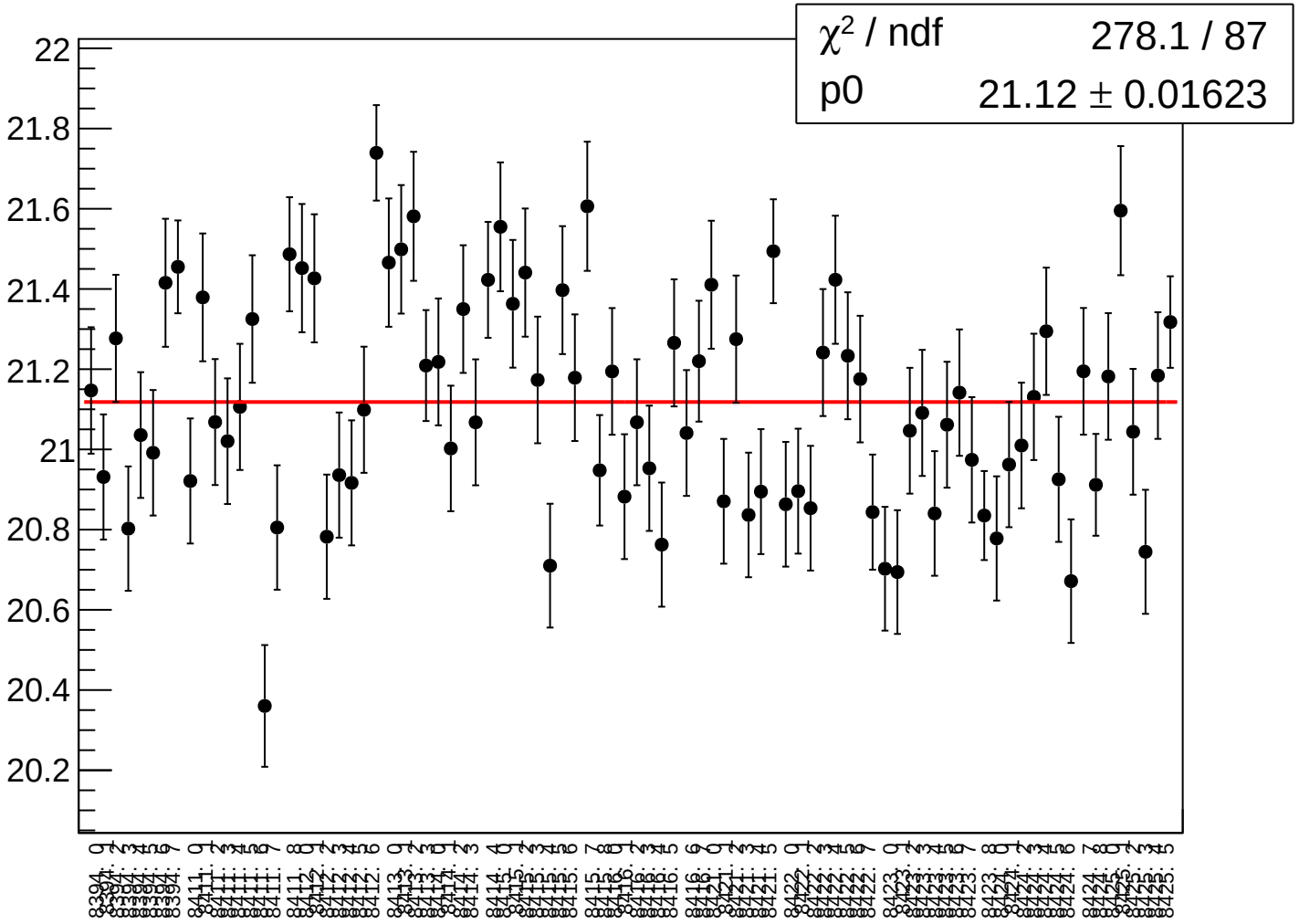

pull1D
Entries 88
Mean 0.00342
Std Dev 0.4857
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

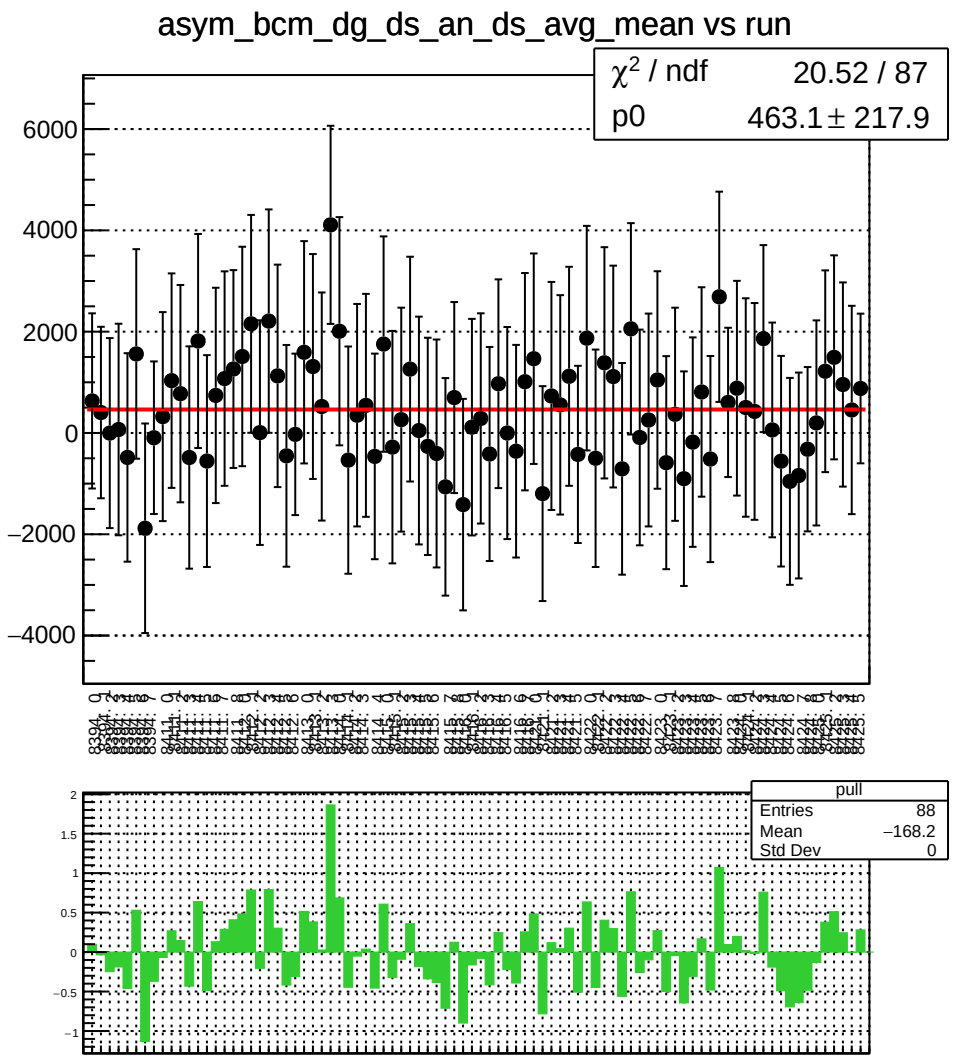

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 4748 / 87
p0 200.4 ± 0.1543
220
210
200
190
180
170
160

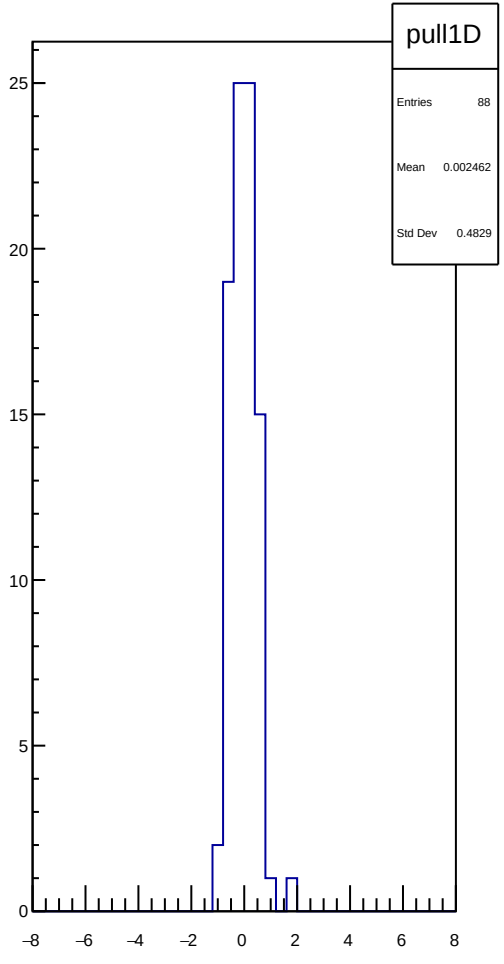

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 90.35 / 87
p0 −14.36 ± 22.96
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 88
Mean 14.11
Std Dev 0
2
1
0
−1
−2

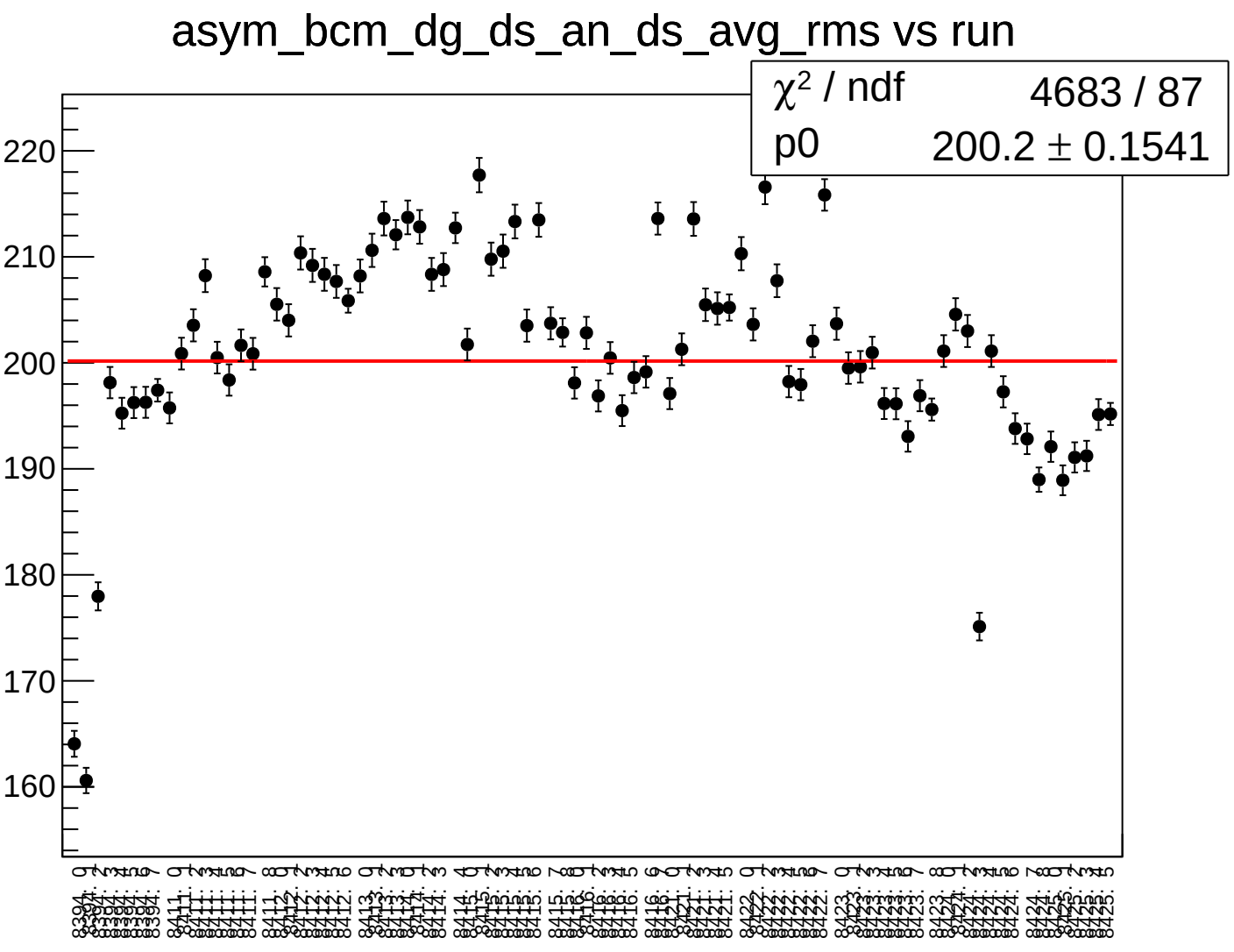

pull1D
Entries 88
Mean 0.00448
Std Dev 1.013
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

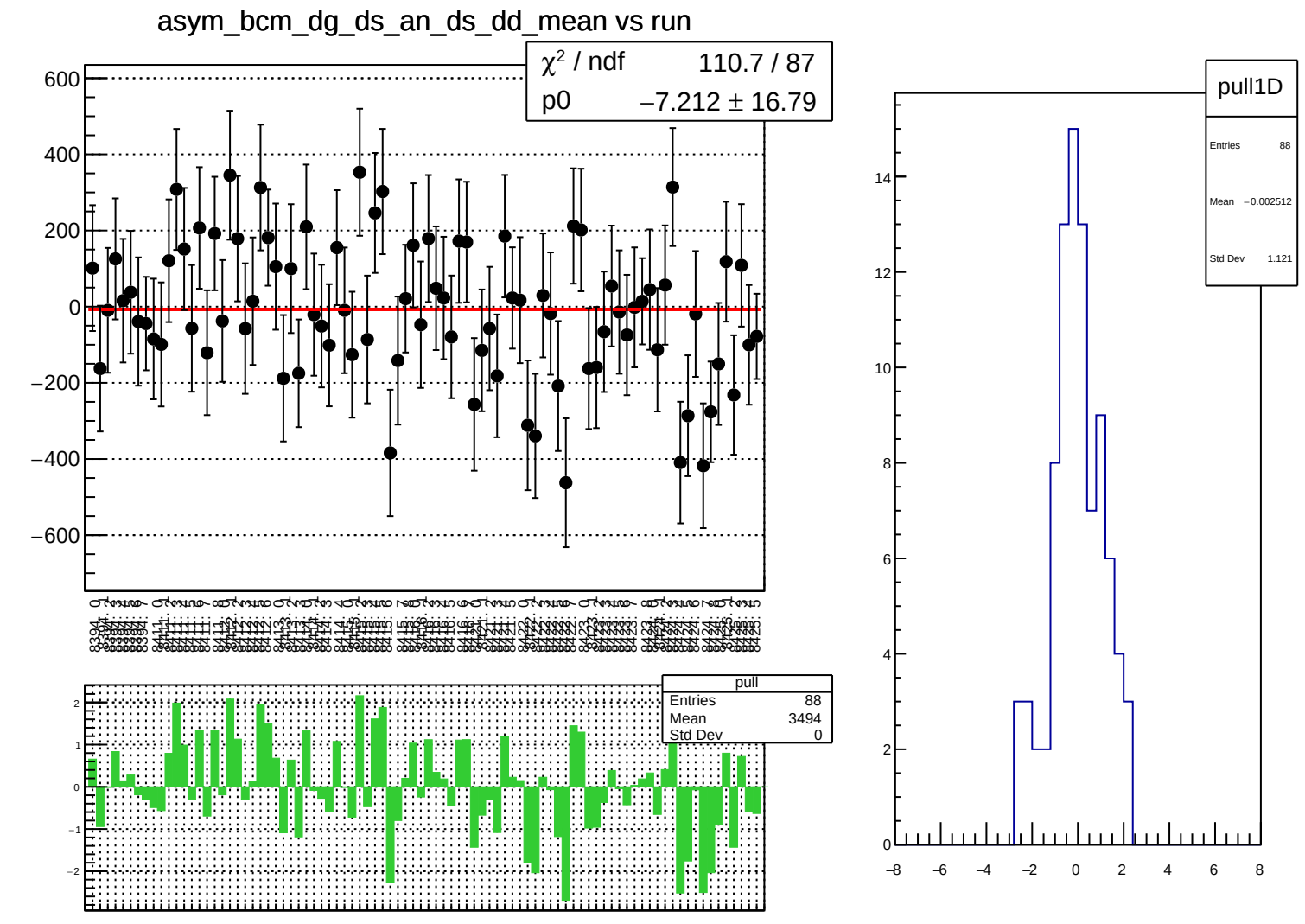
asym_bcm_dg_us_an_ds_dd_rms vs run

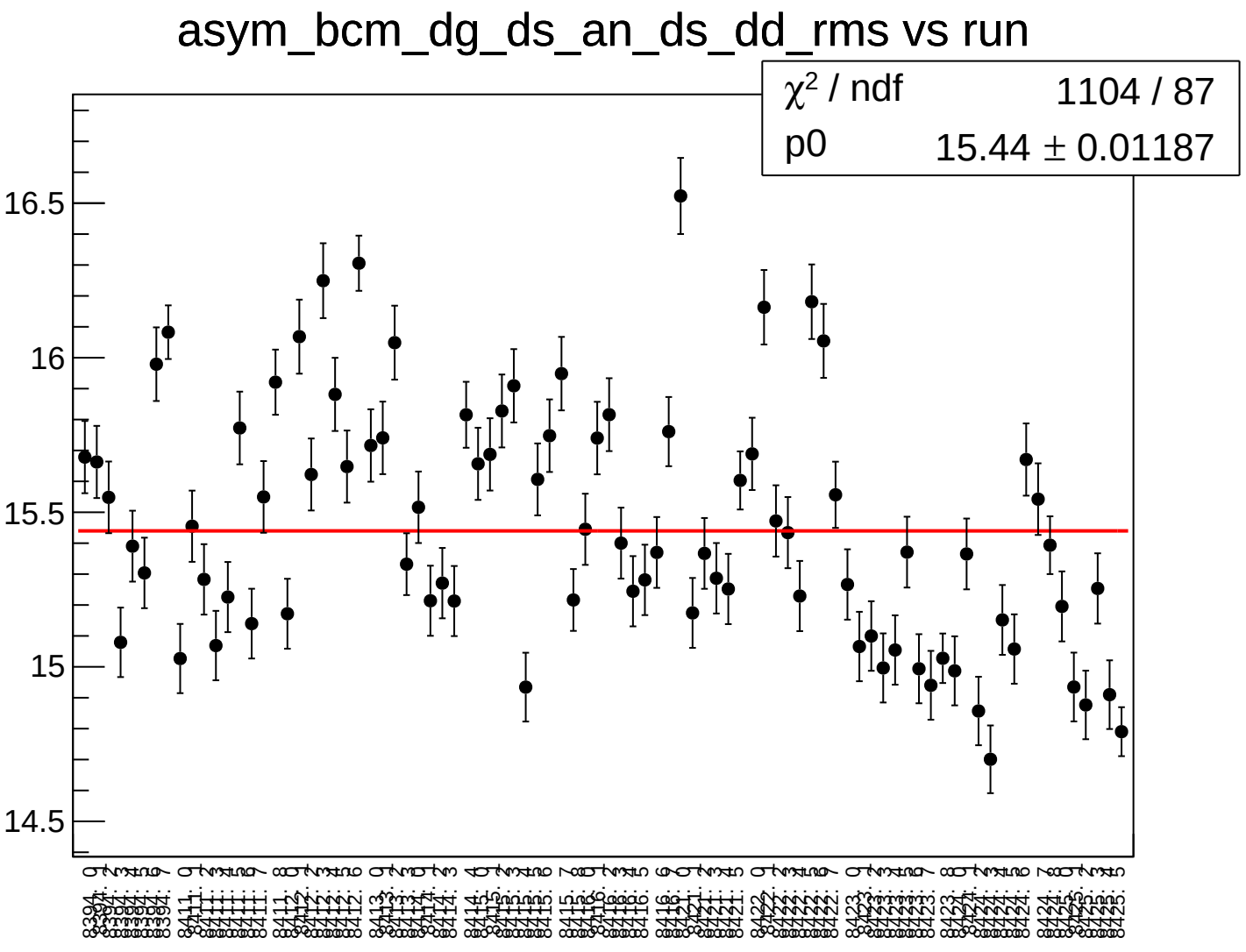


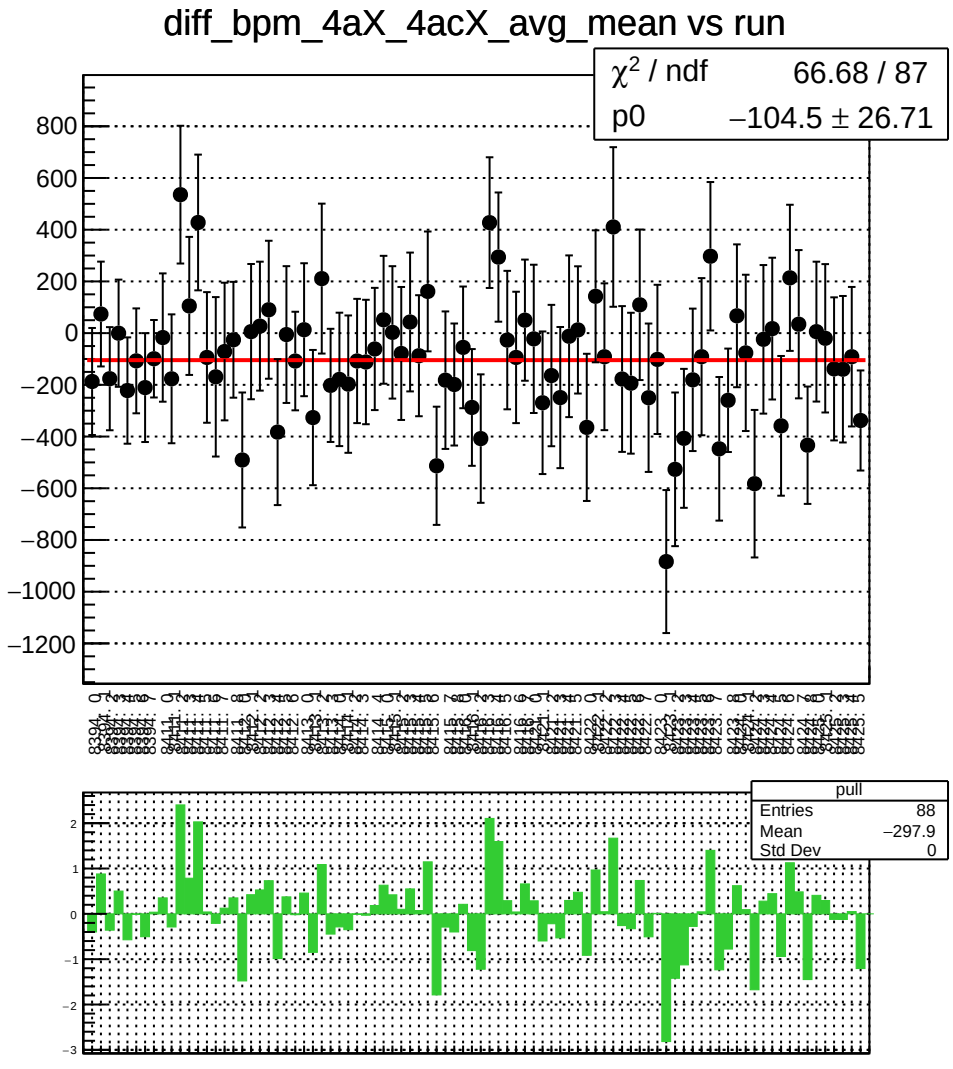

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 20.52 / 87
p0 463.1 ± 217.9
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −168.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

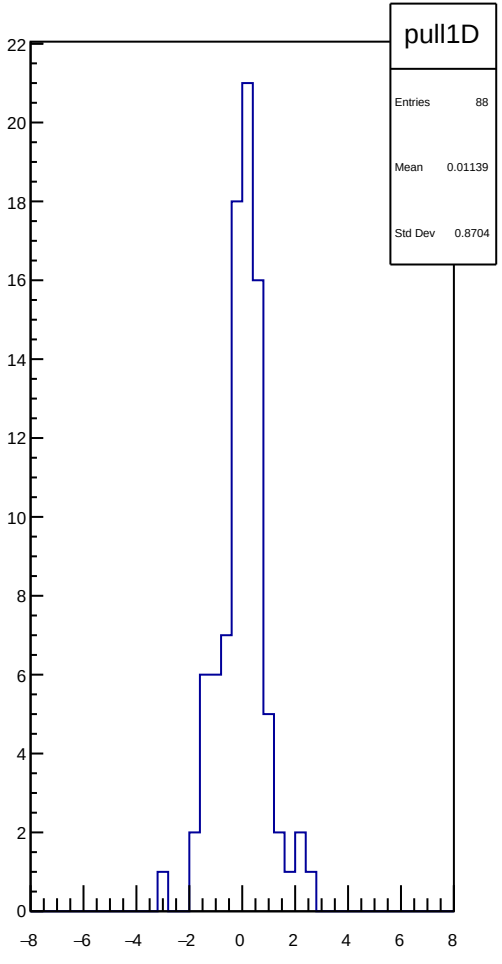

pull1D
Entries 88
Mean 0.002462
Std Dev 0.4829
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

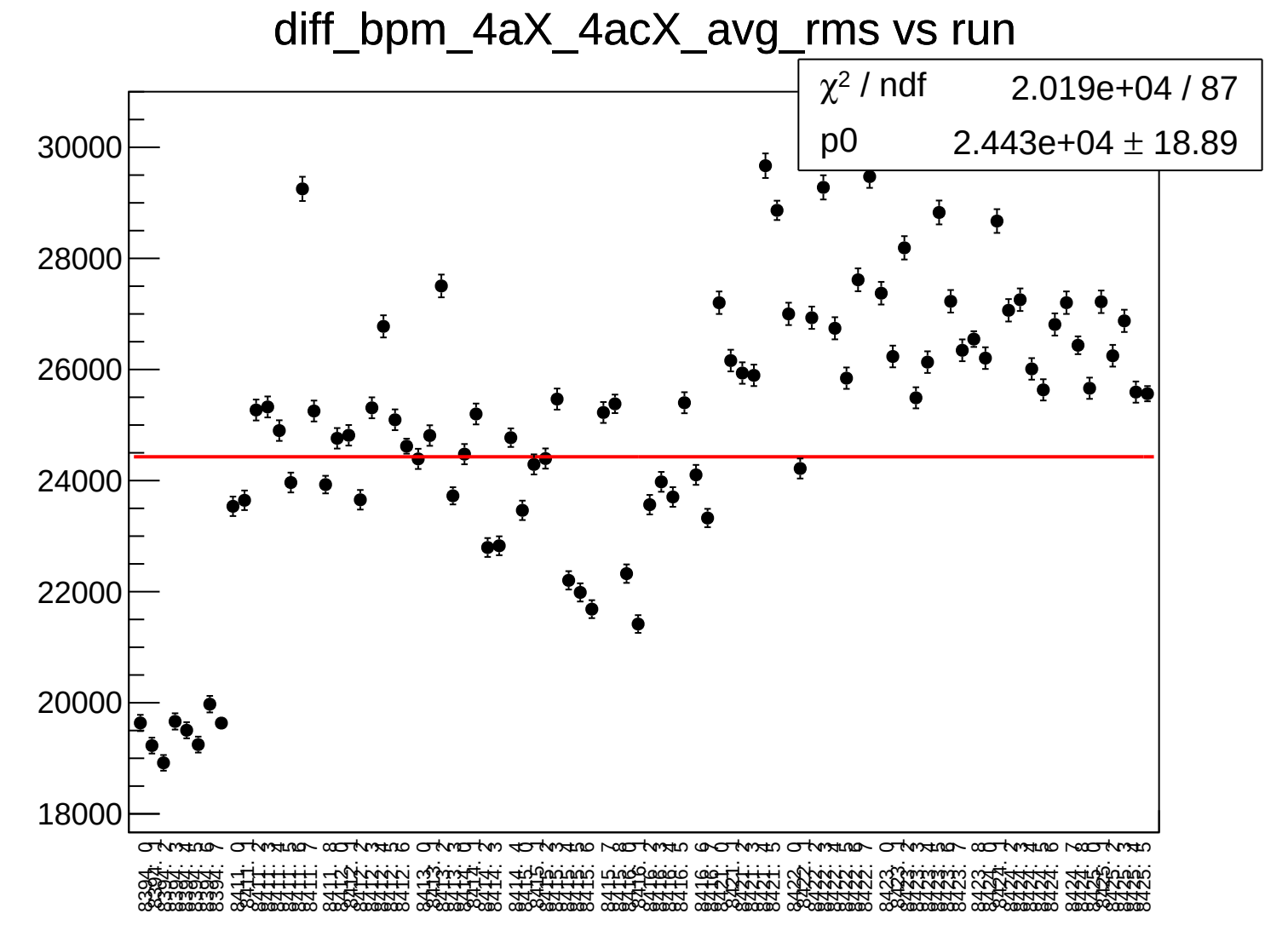

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 4683 / 87
p0 200.2 ± 0.1541
220
210
200
190
180
170
160

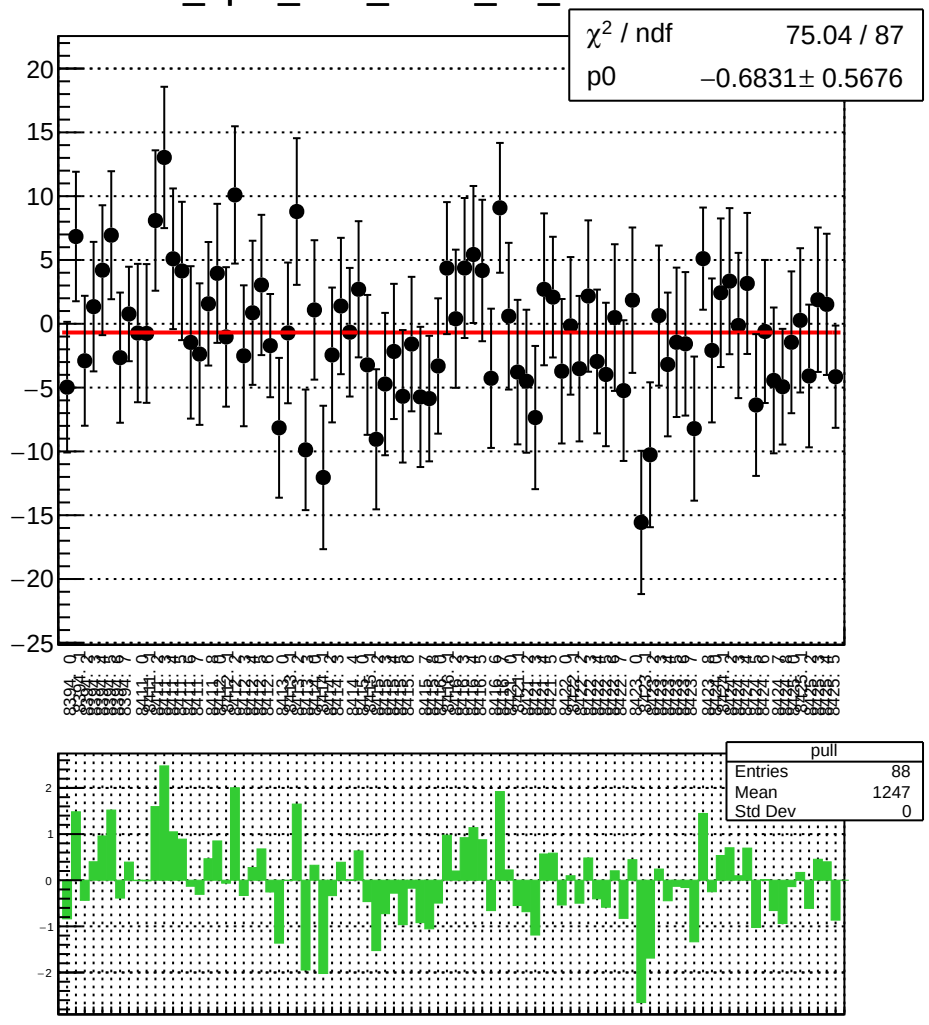

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 110.7 / 87
p0 −7.212 ± 16.79
600
400
200
0
−200
−400
−600
pull
Entries 88
Mean 3494
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.002512
Std Dev 1.121
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

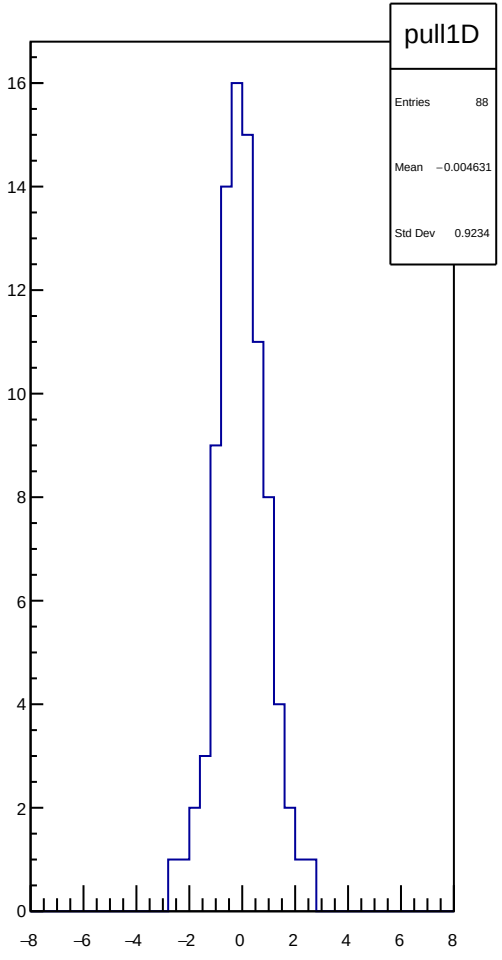

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 1104 / 87
p0 15.44 ± 0.01187
16.5
16
15.5
15
14.5

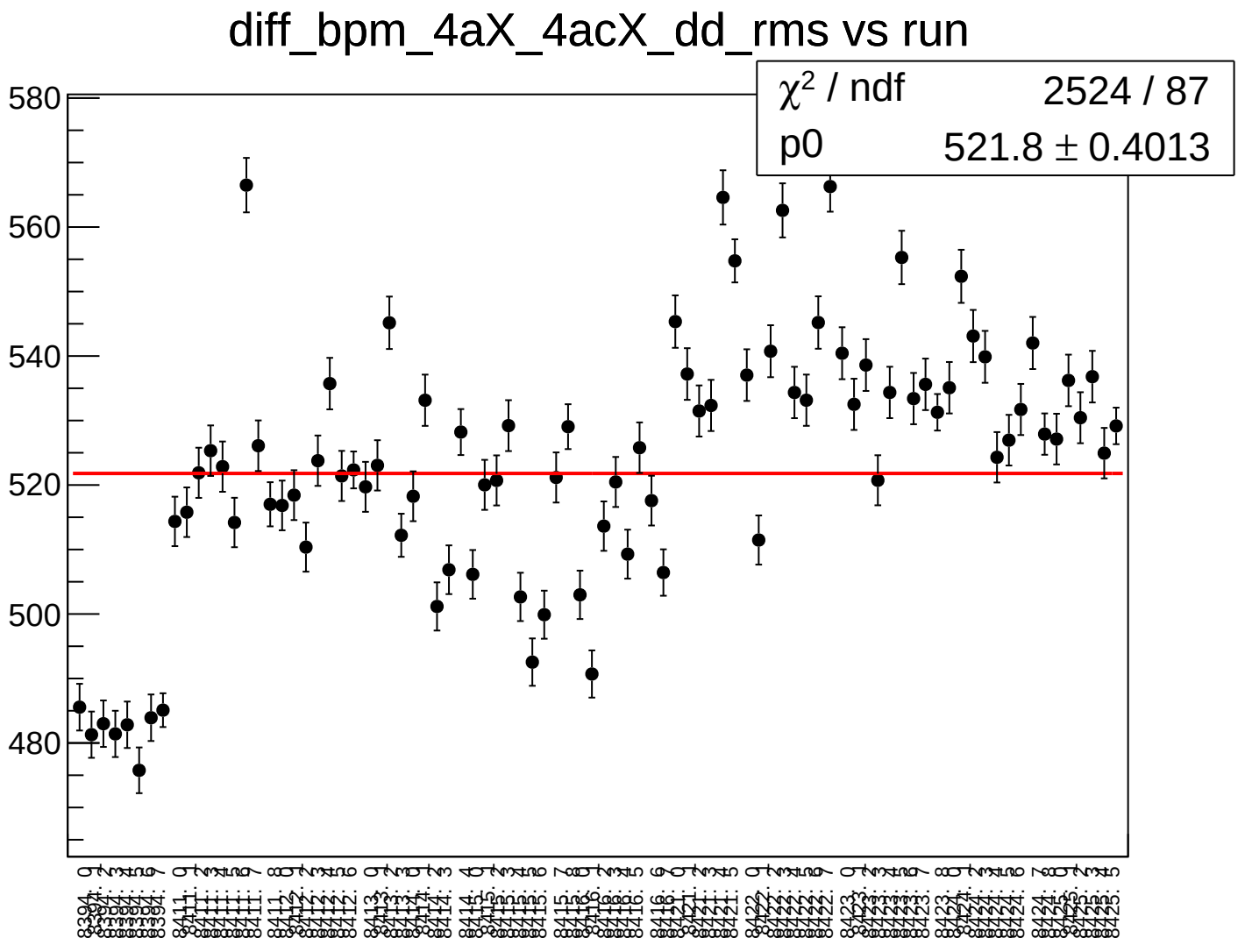

diff_bpm_4aX_4acX_avg_mean vs run
χ^2 / ndf 66.68 / 87
p0 −104.5 ± 26.71
pull
Entries 88
Mean −297.9
Std Dev 0

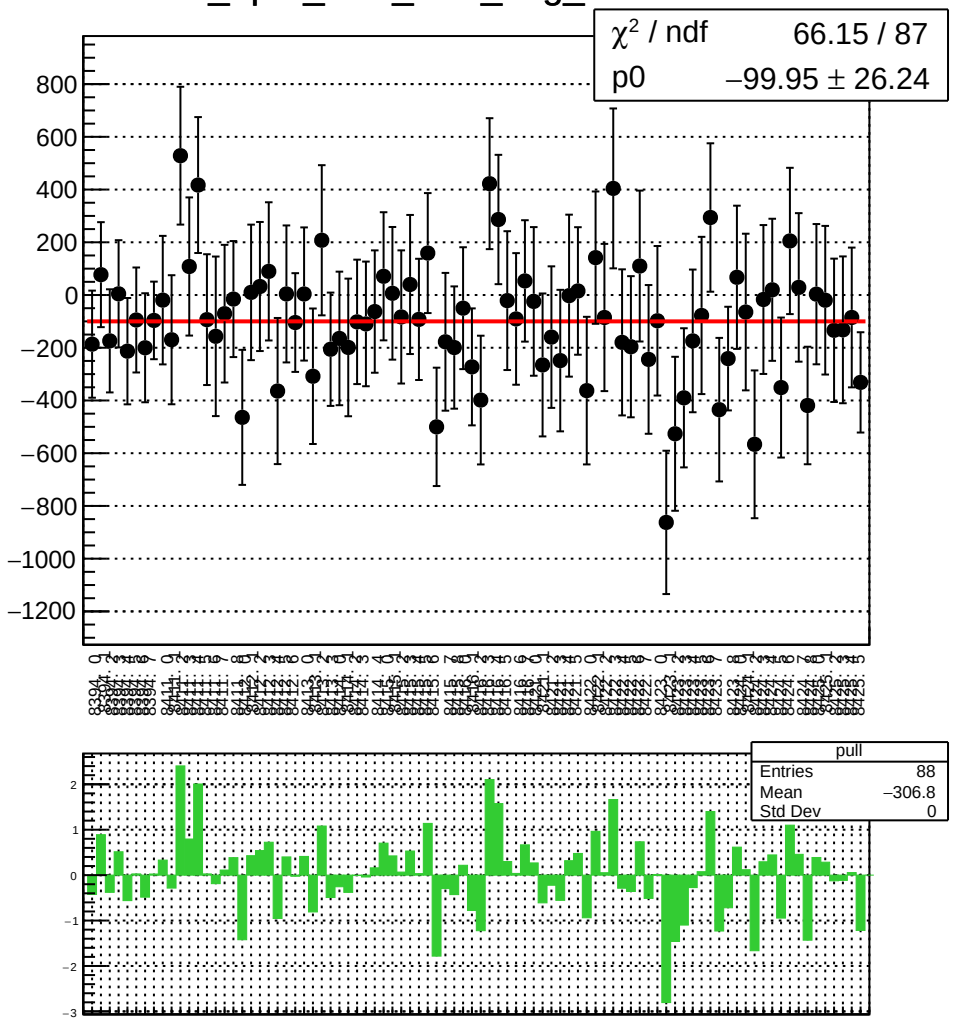

pull1D
Entries 88
Mean 0.01139
Std Dev 0.8704


diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 2.019e+04 / 87
p0 2.443e+04 ± 18.89
30000
28000
26000
24000
22000
20000
18000

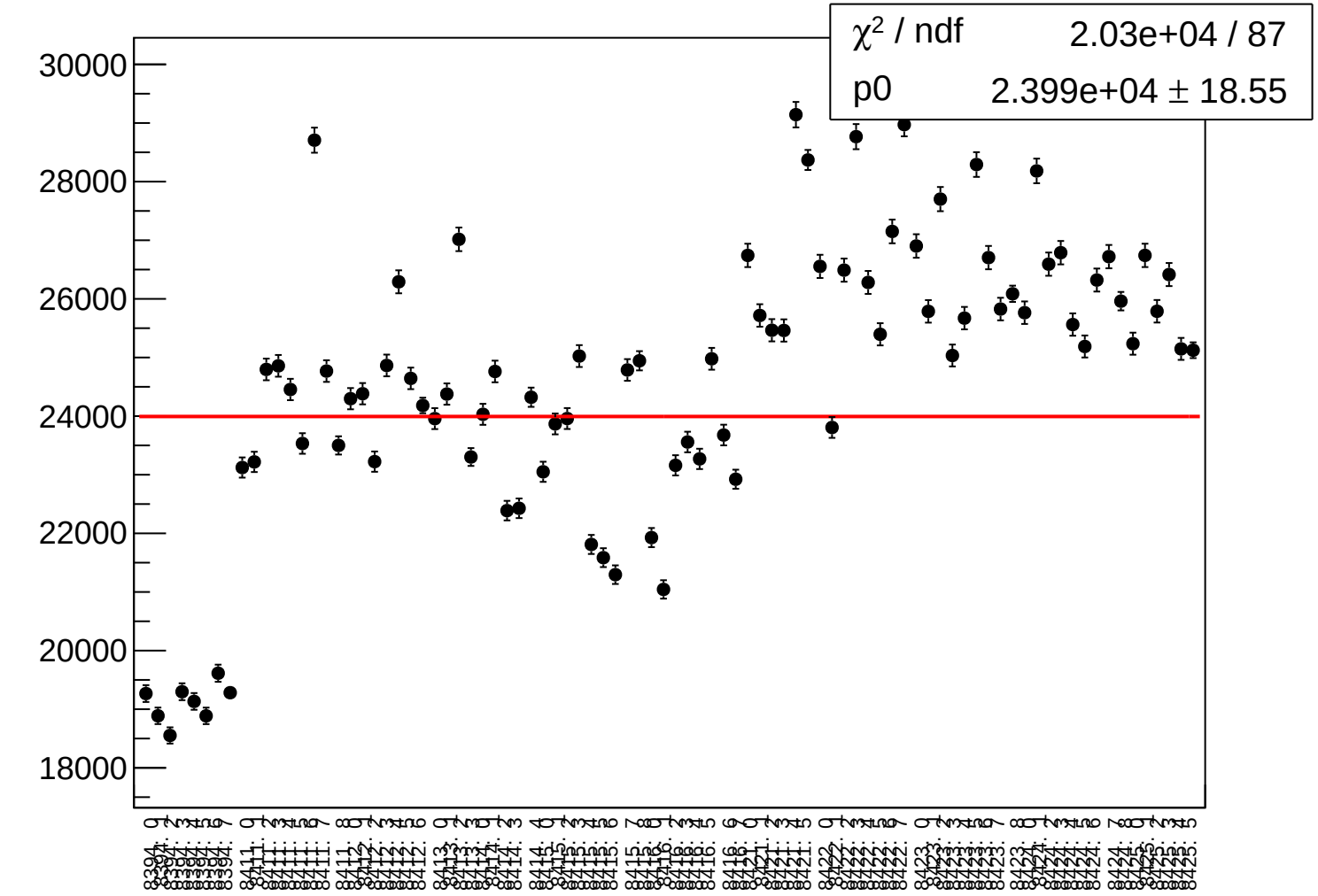

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 75.04 / 87
p0 −0.6831± 0.5676
pull
Entries 88
Mean 1247
Std Dev 0

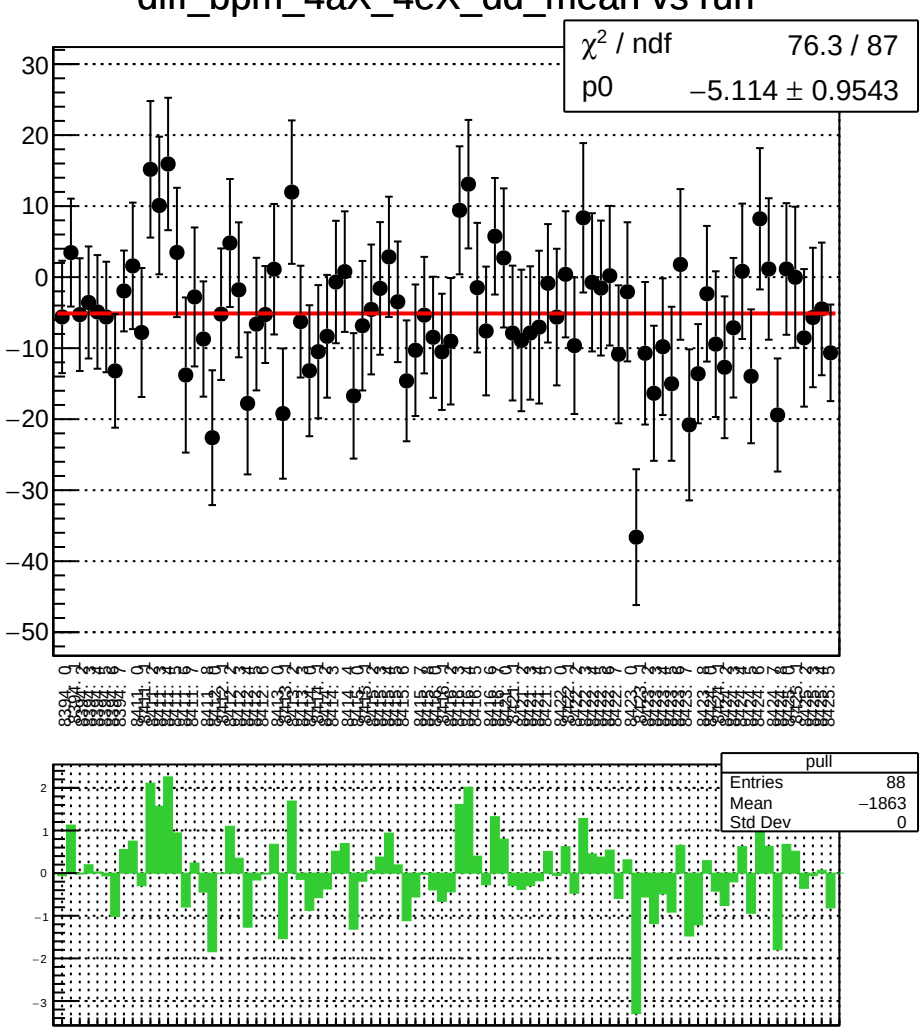

pull1D
Entries 88
Mean −0.004631
Std Dev 0.9234

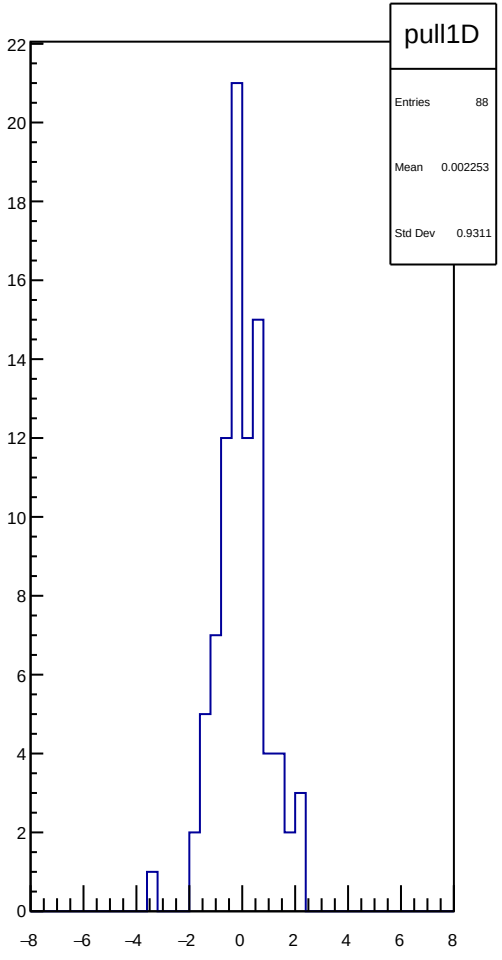

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 2524 / 87
p0 521.8 ± 0.4013
580
560
540
520
500
480

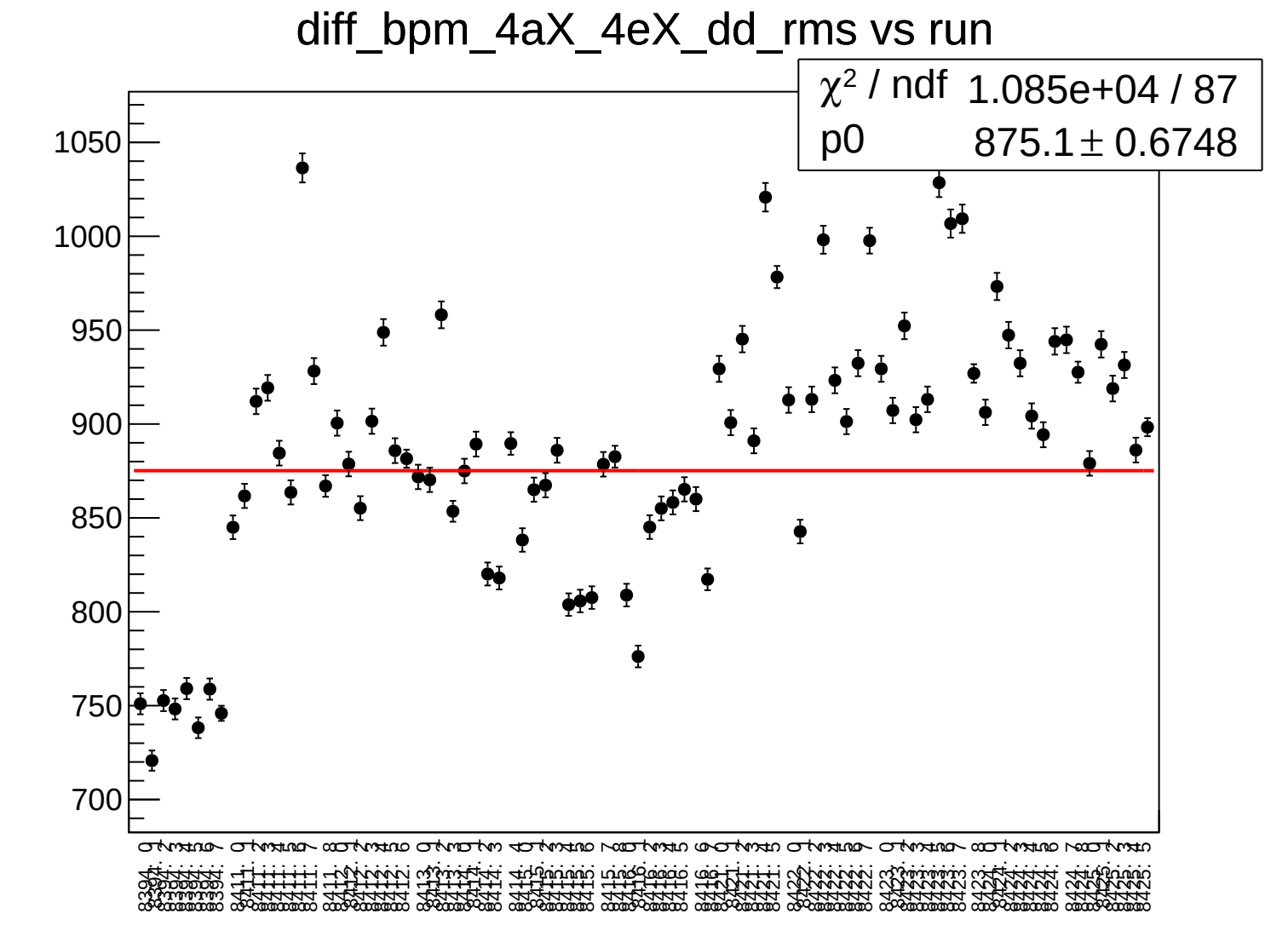

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 66.15 / 87
p0 −99.95 ± 26.24
pull
Entries 88
Mean −306.8
Std Dev 0
pull1D
Entries 88
Mean 0.0112
Std Dev 0.8669

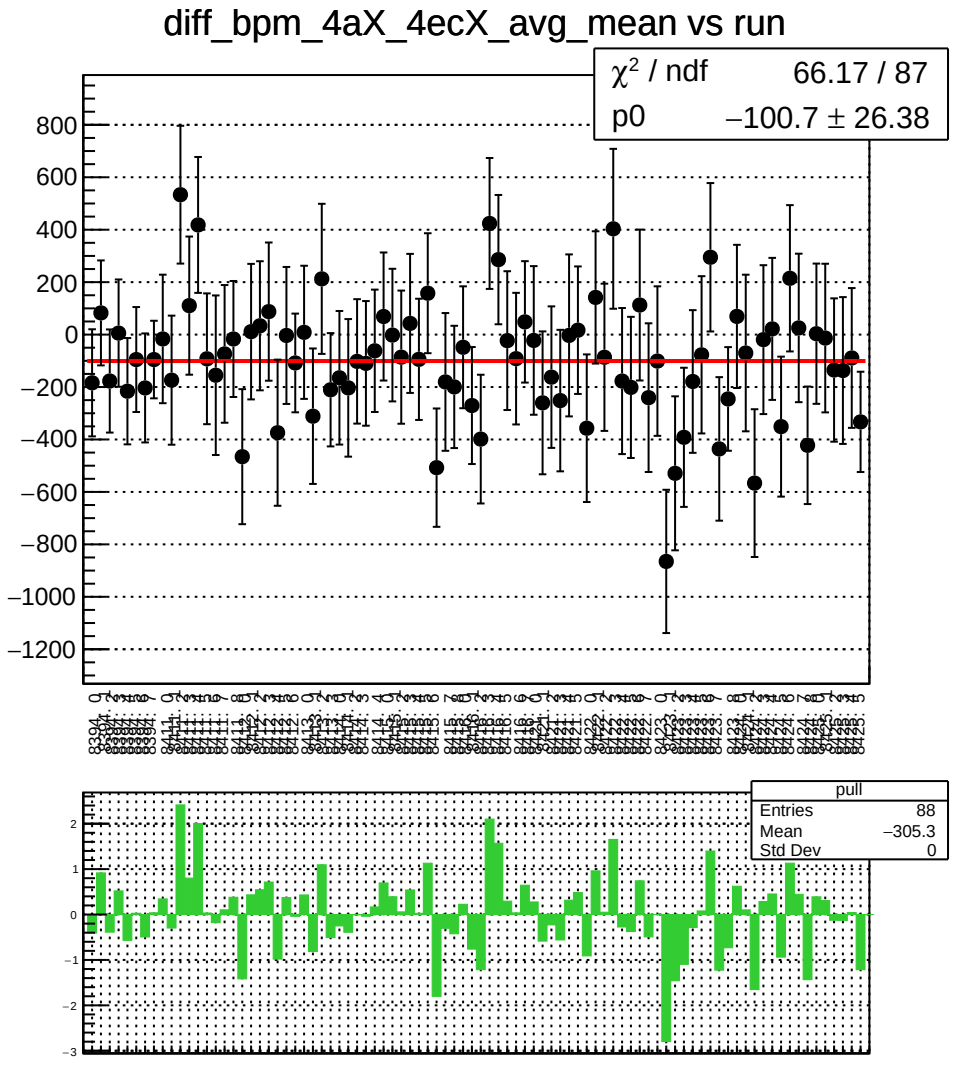
diff_bpm_4aX_4eX_avg_rms vs run

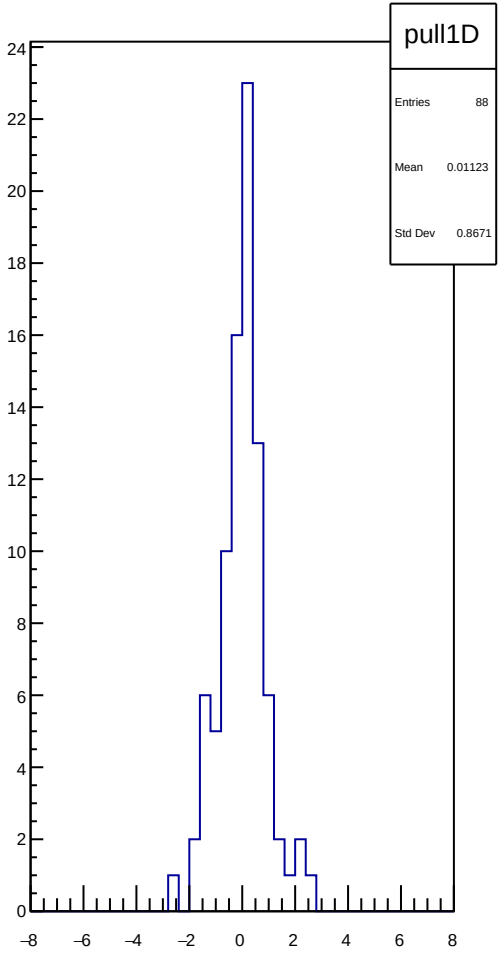


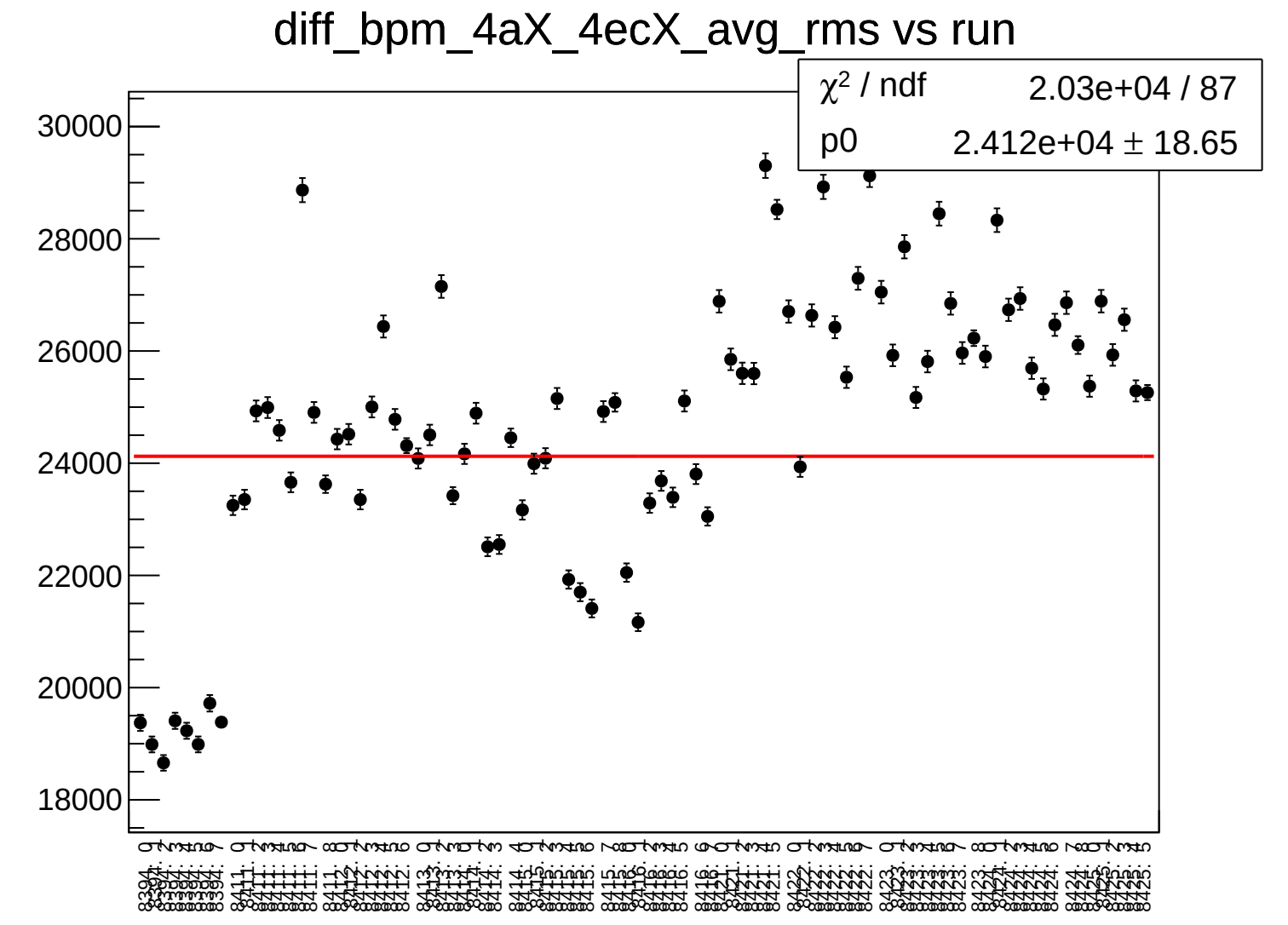

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 76.3 / 87
p0 −5.114 ± 0.9543
pull
Entries 88
Mean −1863
Std Dev 0

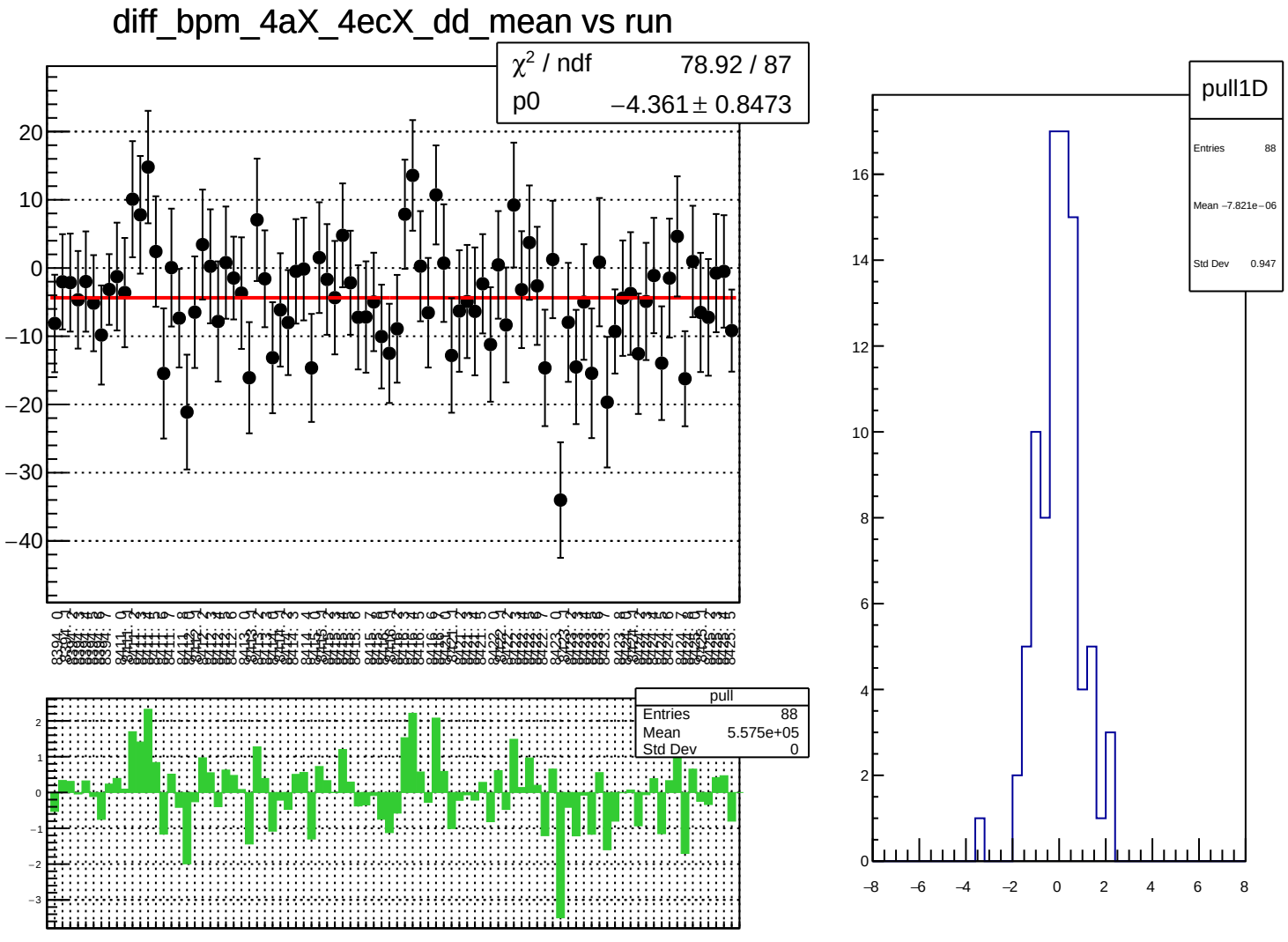

pull1D
Entries 88
Mean 0.002253
Std Dev 0.9311

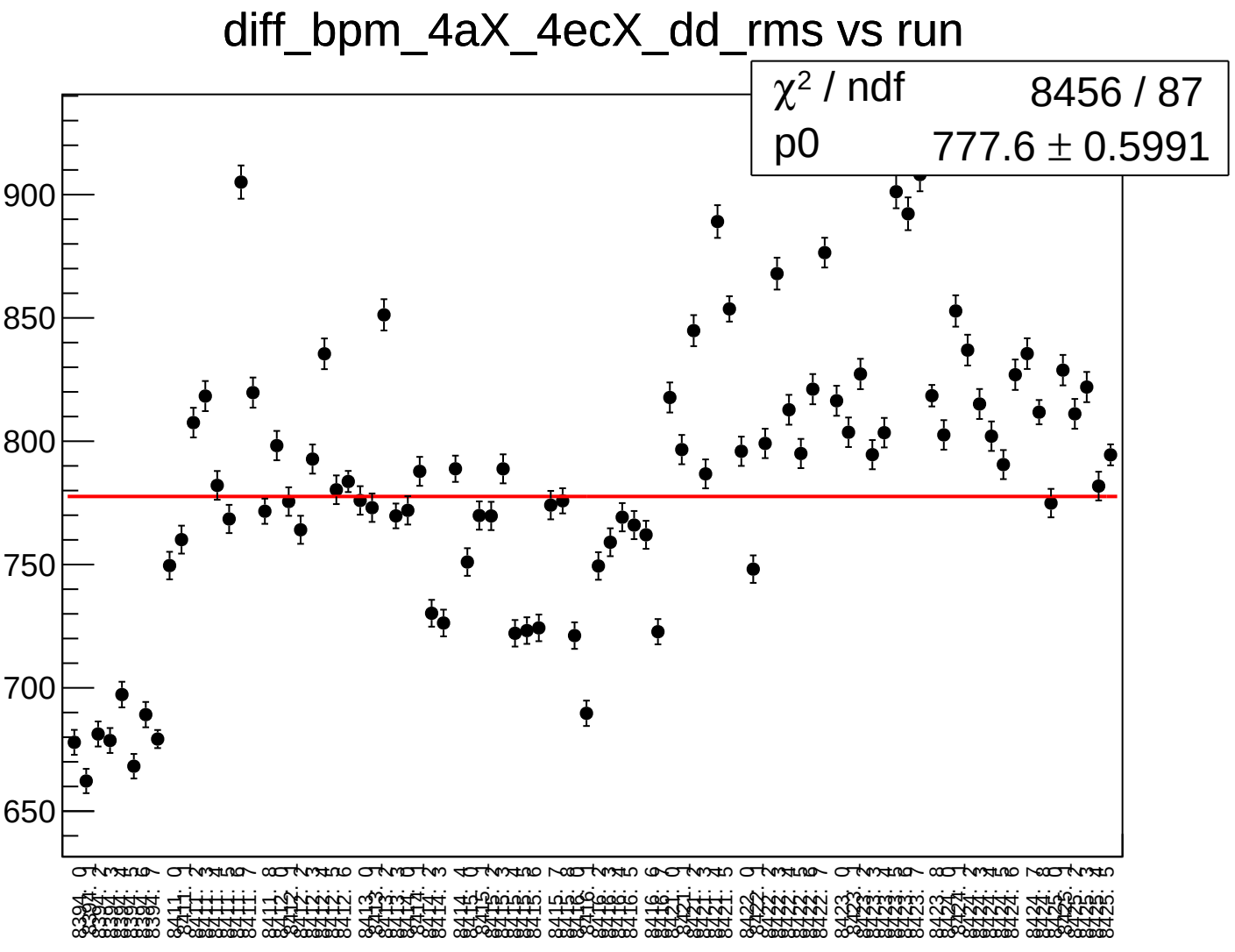

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 1.085e+04 / 87
p0 875.1 ± 0.6748
1050
1000
950
900
850
800
750
700

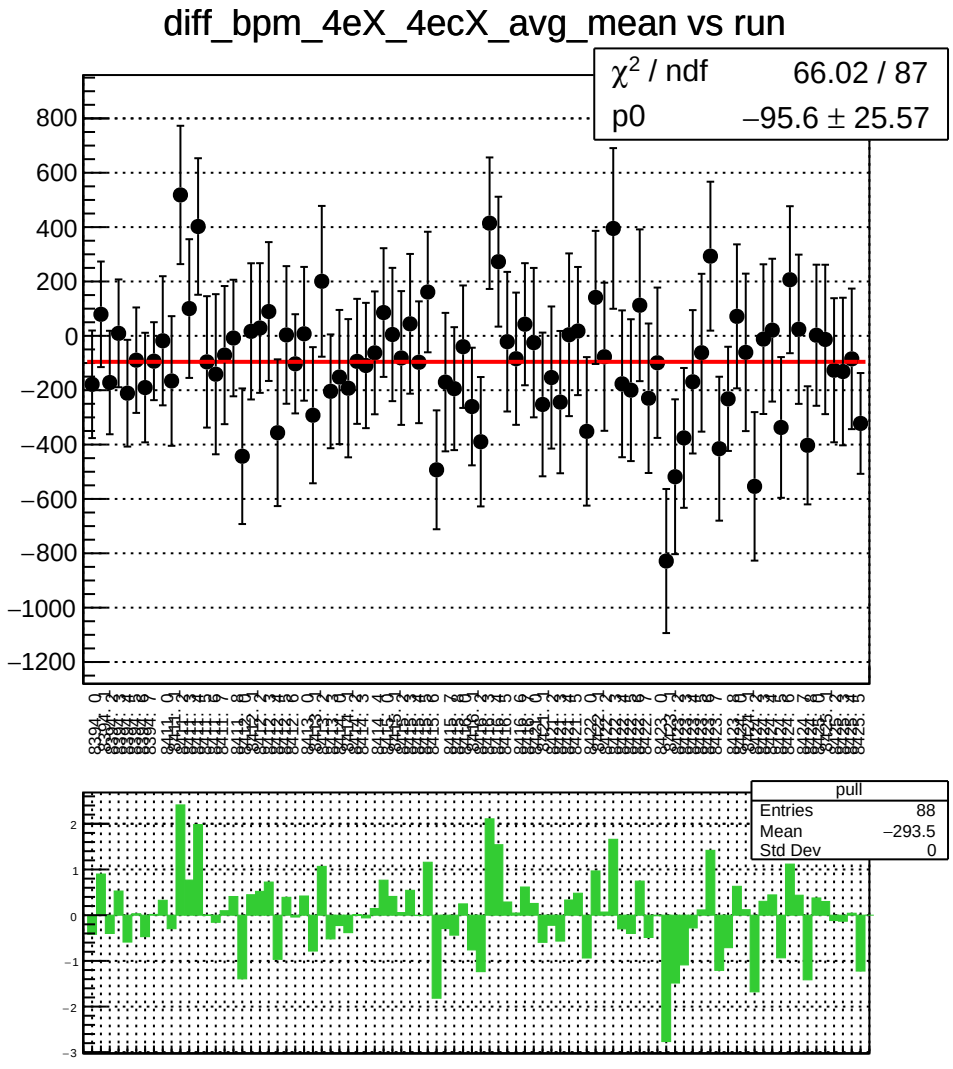

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 66.17 / 87
p0 −100.7 ± 26.38
pull
Entries 88
Mean −305.3
Std Dev 0

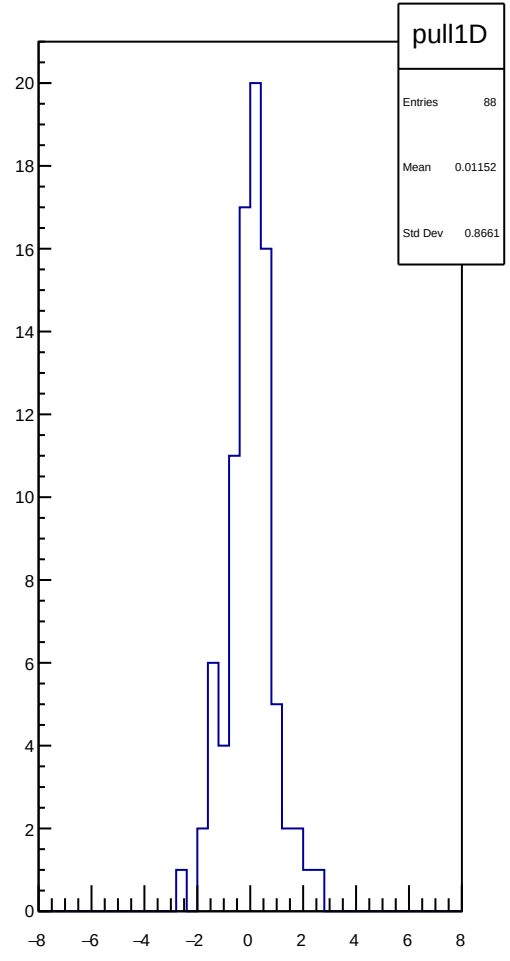

pull1D
Entries 88
Mean 0.01123
Std Dev 0.8671

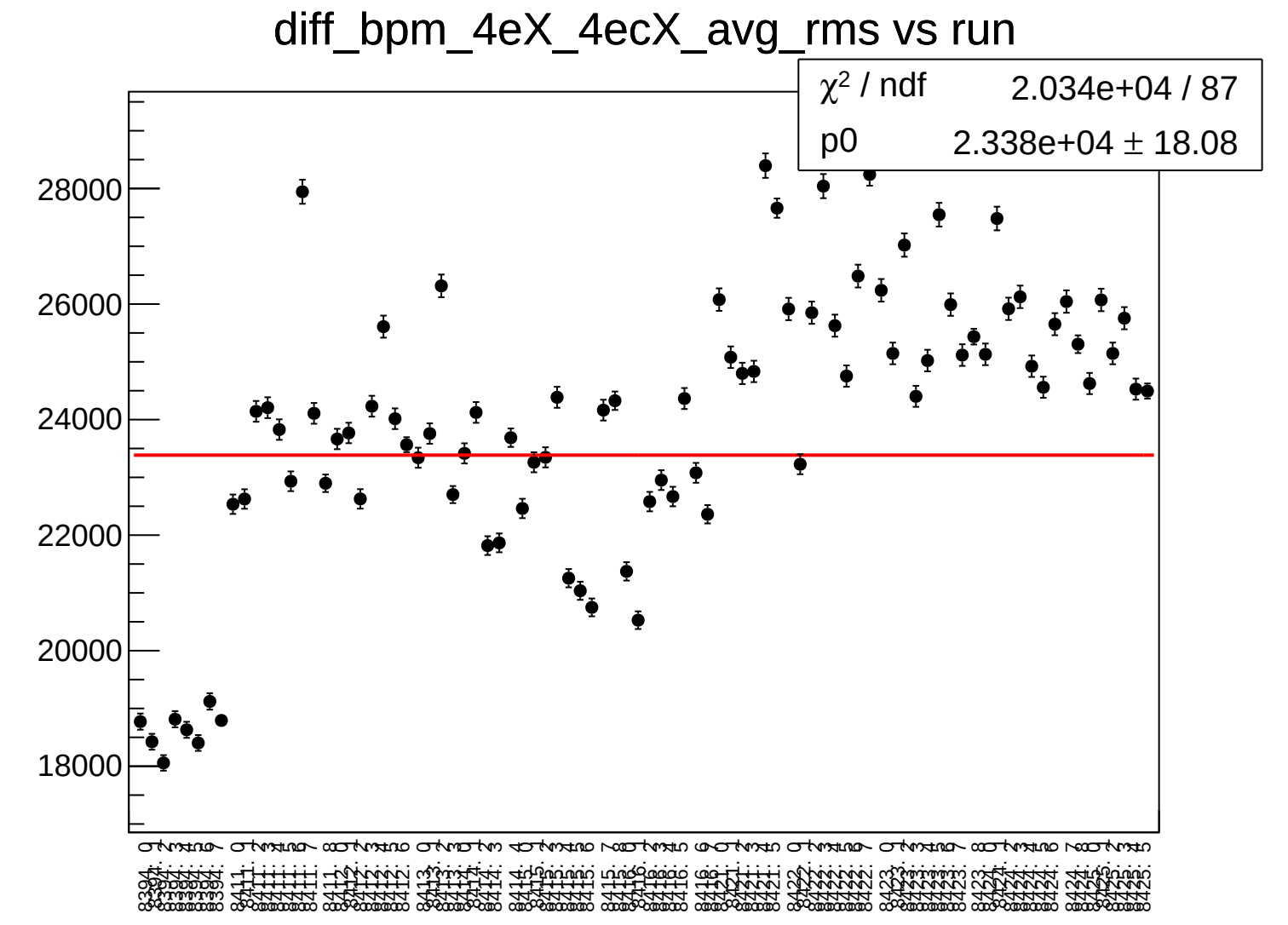

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 2.03e+04 / 87
p0 2.412e+04 ± 18.65
30000
28000
26000
24000
22000
20000
18000

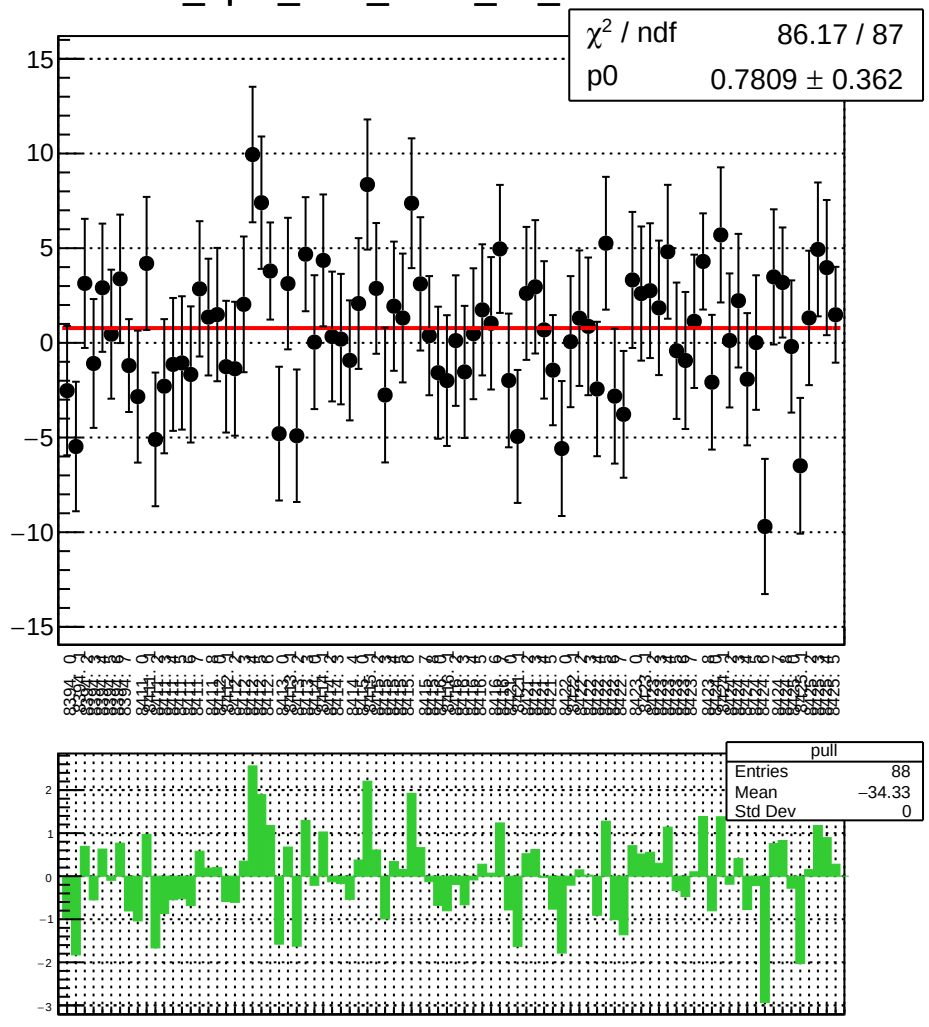

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 78.92 / 87
p0 −4.361 ± 0.8473
pull
Entries 88
Mean 5.575e+05
Std Dev 0
pull1D
Entries 88
Mean −7.821e−06
Std Dev 0.947

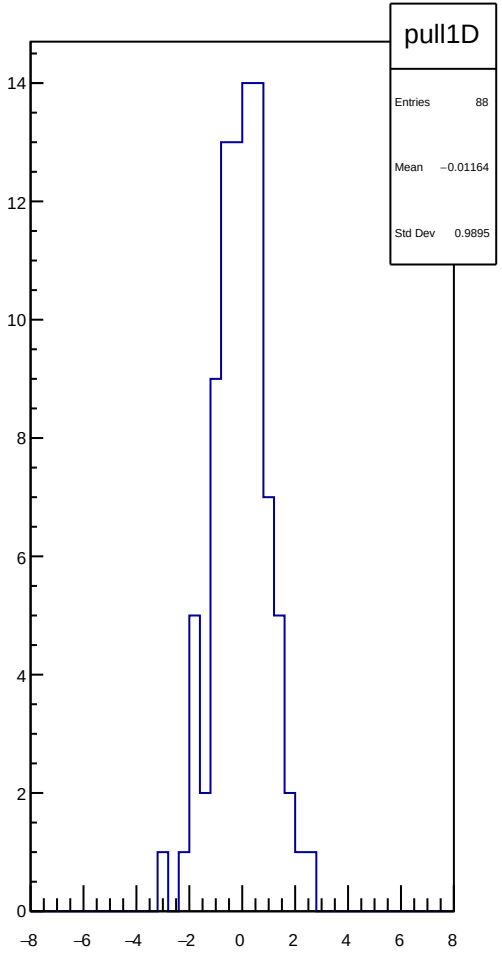

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 8456 / 87
p0 777.6 ± 0.5991
900
850
800
750
700
650

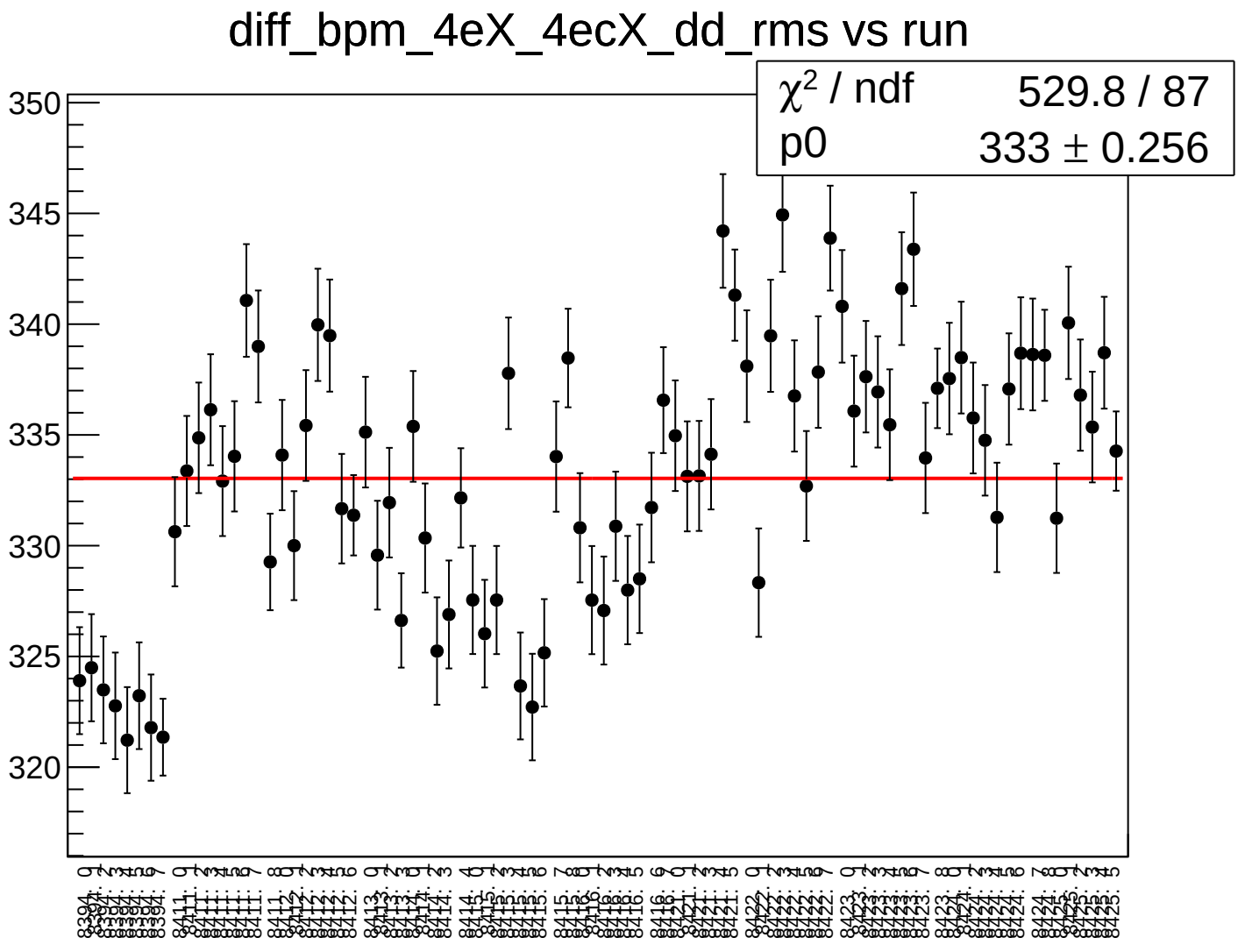

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 66.02 / 87
p0 −95.6 ± 25.57
pull
Entries 88
Mean −293.5
Std Dev 0

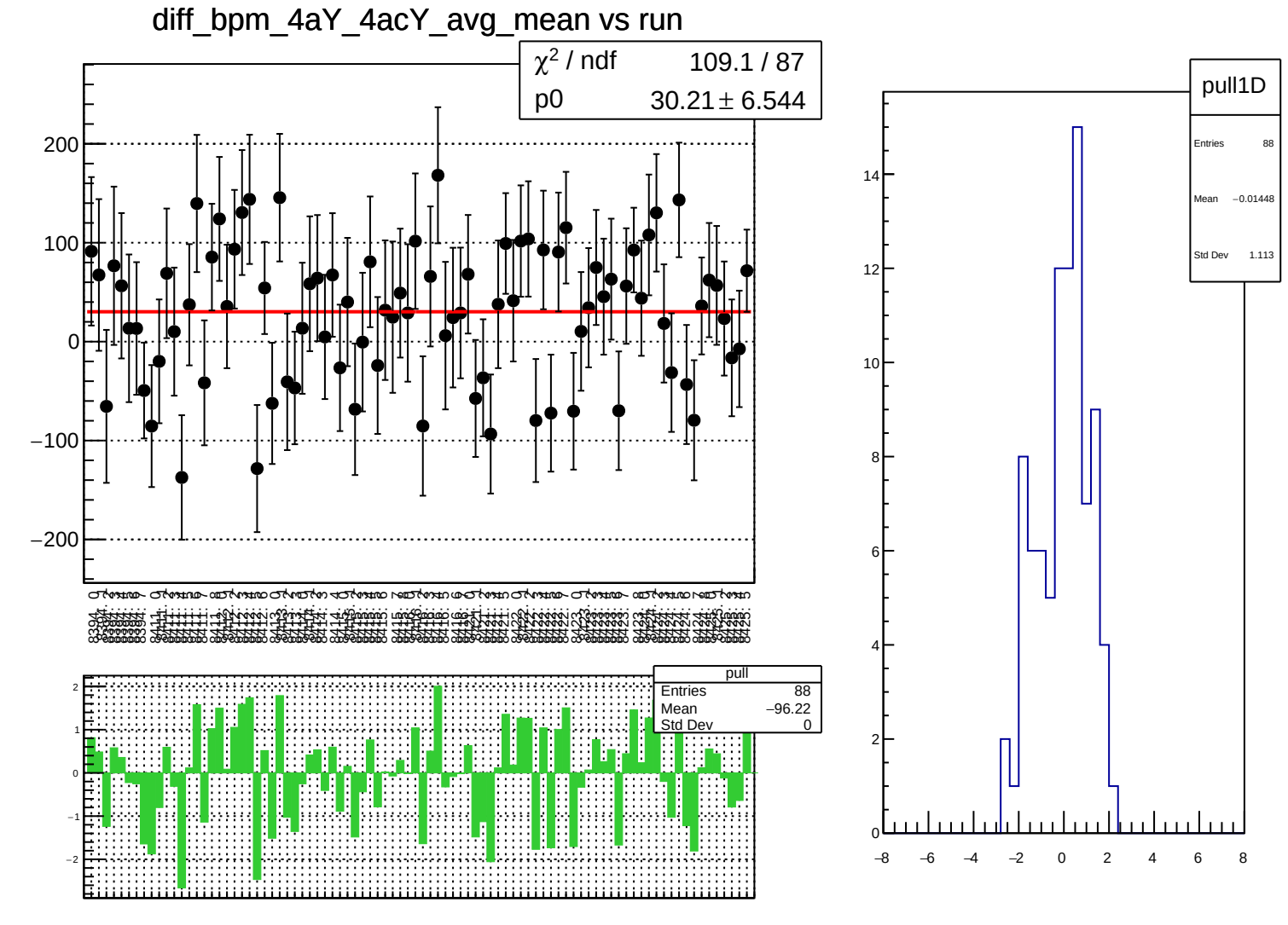

pull1D
Entries 88
Mean 0.01152
Std Dev 0.8661

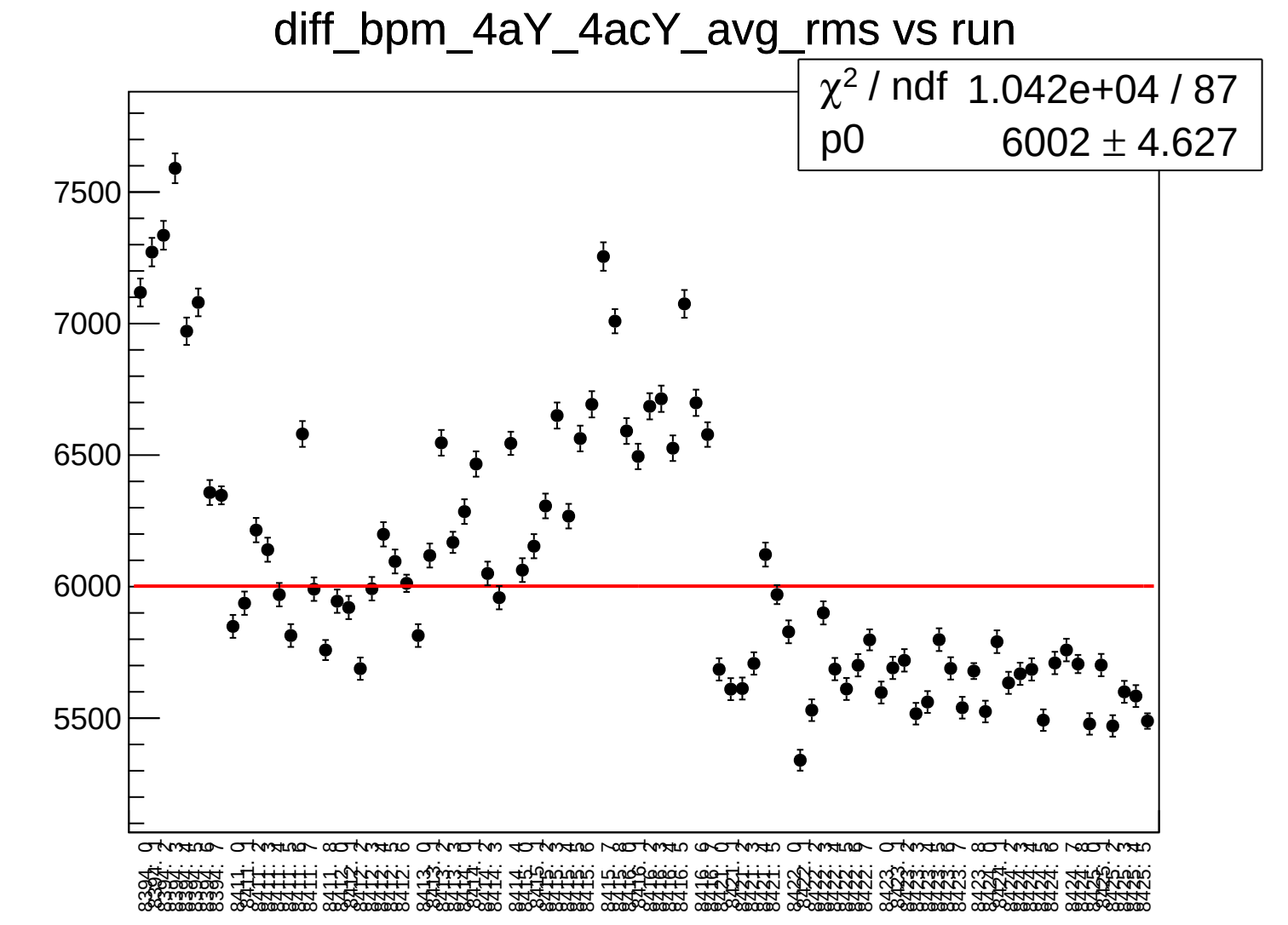

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 2.034e+04 / 87
p0 2.338e+04 ± 18.08
28000
26000
24000
22000
20000
18000

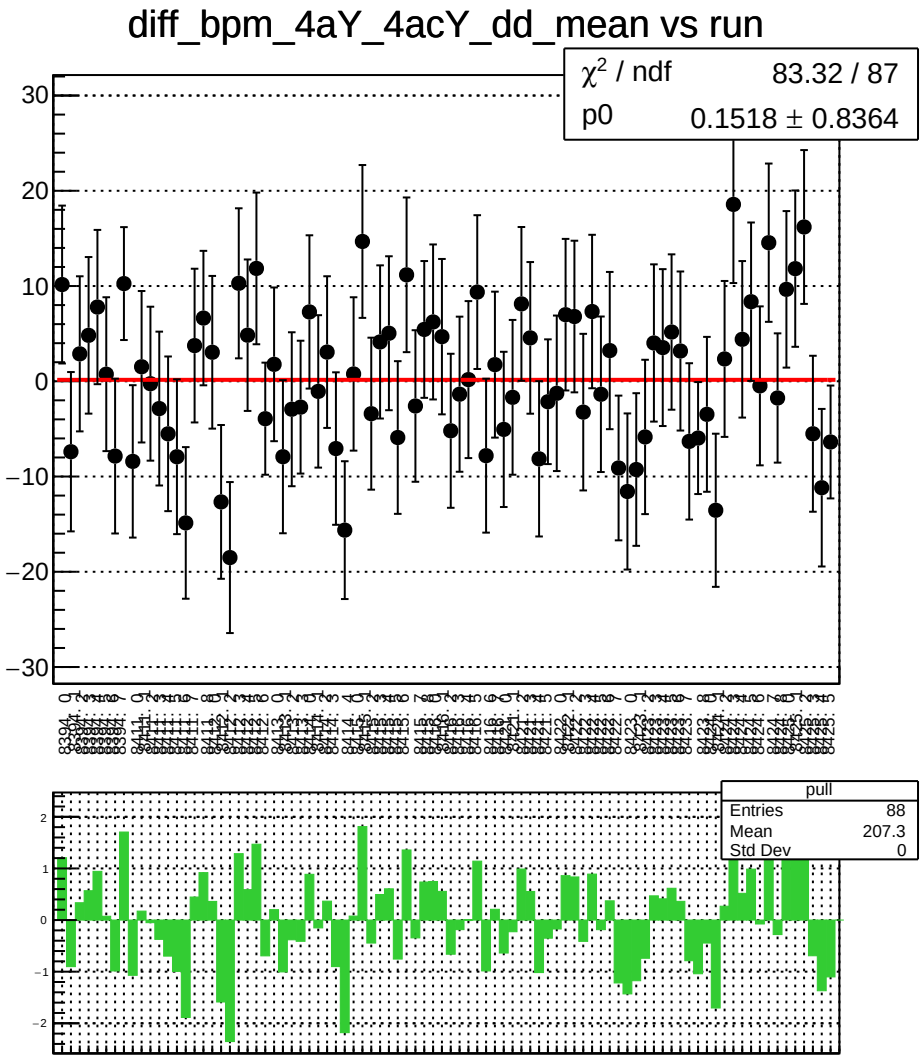

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 86.17 / 87
p0 0.7809 ± 0.362
pull
Entries 88
Mean −34.33
Std Dev 0

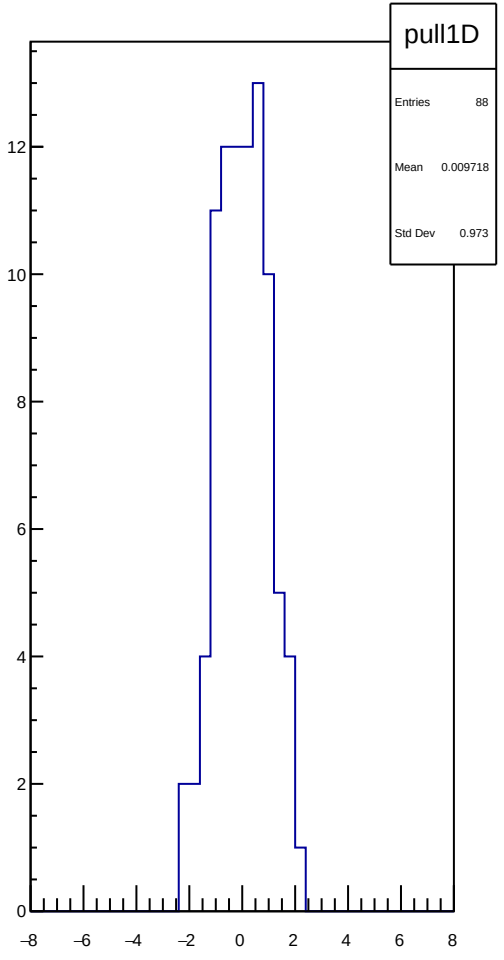

pull1D
Entries 88
Mean −0.01164
Std Dev 0.9895

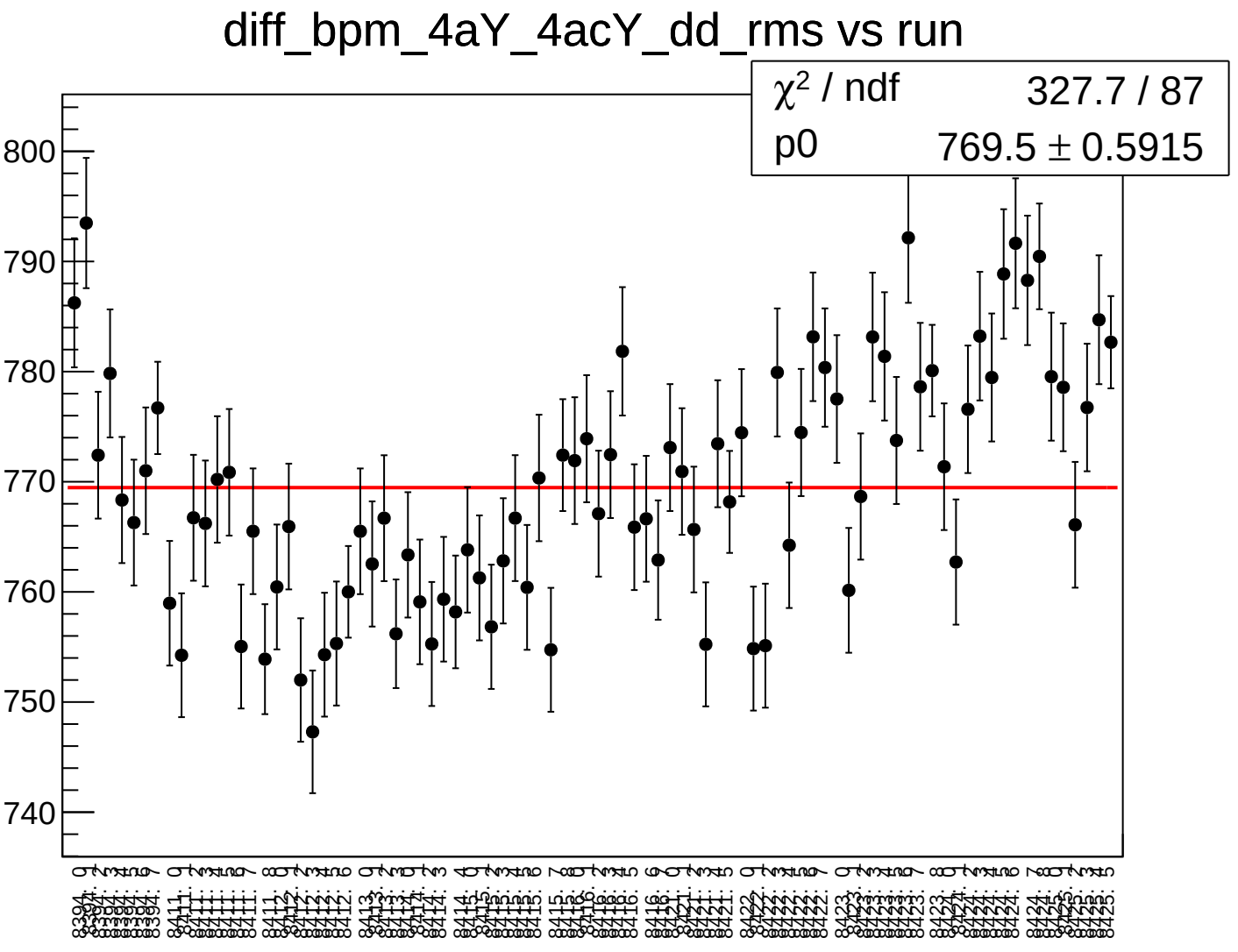

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 529.8 / 87
p0 333 ± 0.256
350
345
340
335
330
325
320

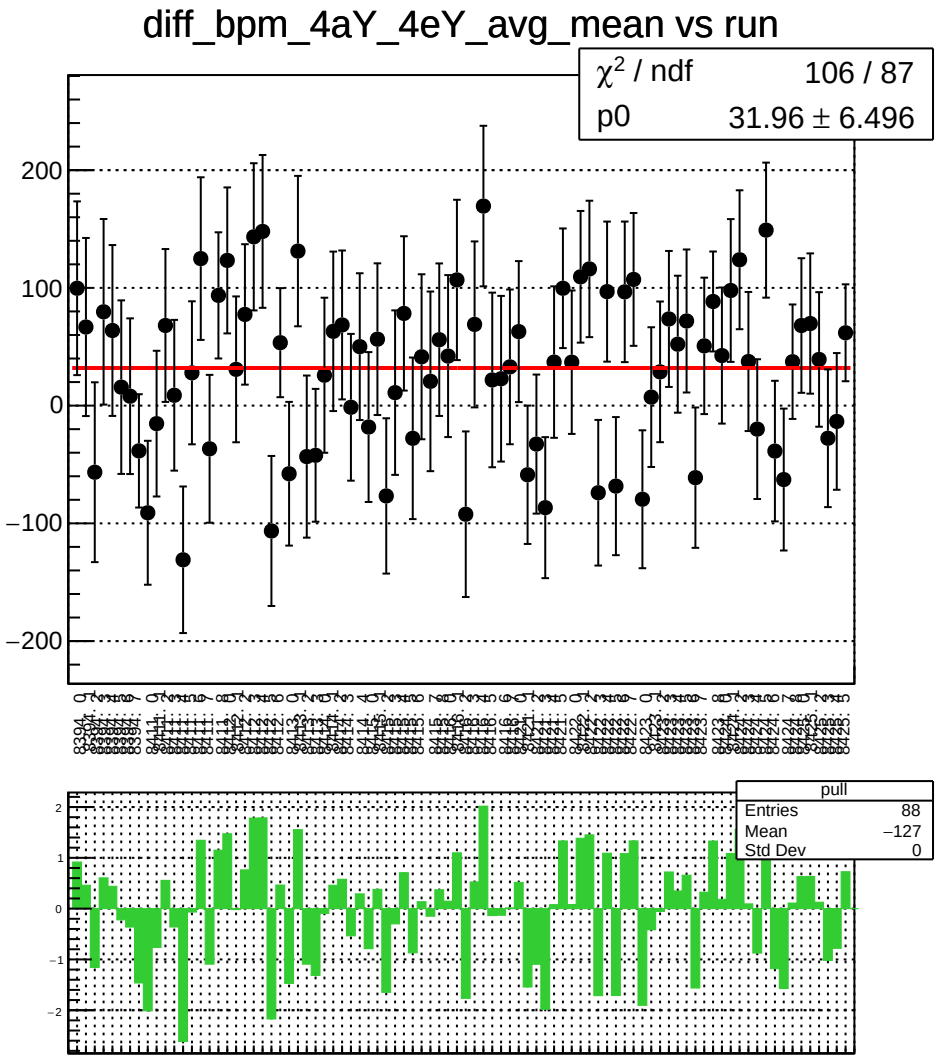

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 109.1 / 87
p0 30.21 ± 6.544
200
100
0
−100
−200
pull
Entries 88
Mean −96.22
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01448
Std Dev 1.113
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

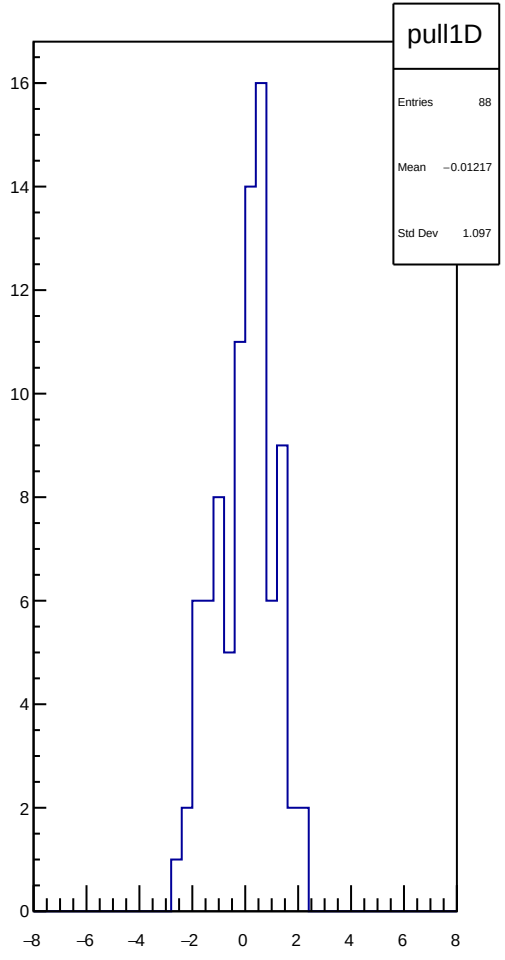

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 1.042e+04 / 87
p0 6002 ± 4.627
7500
7000
6500
6000
5500

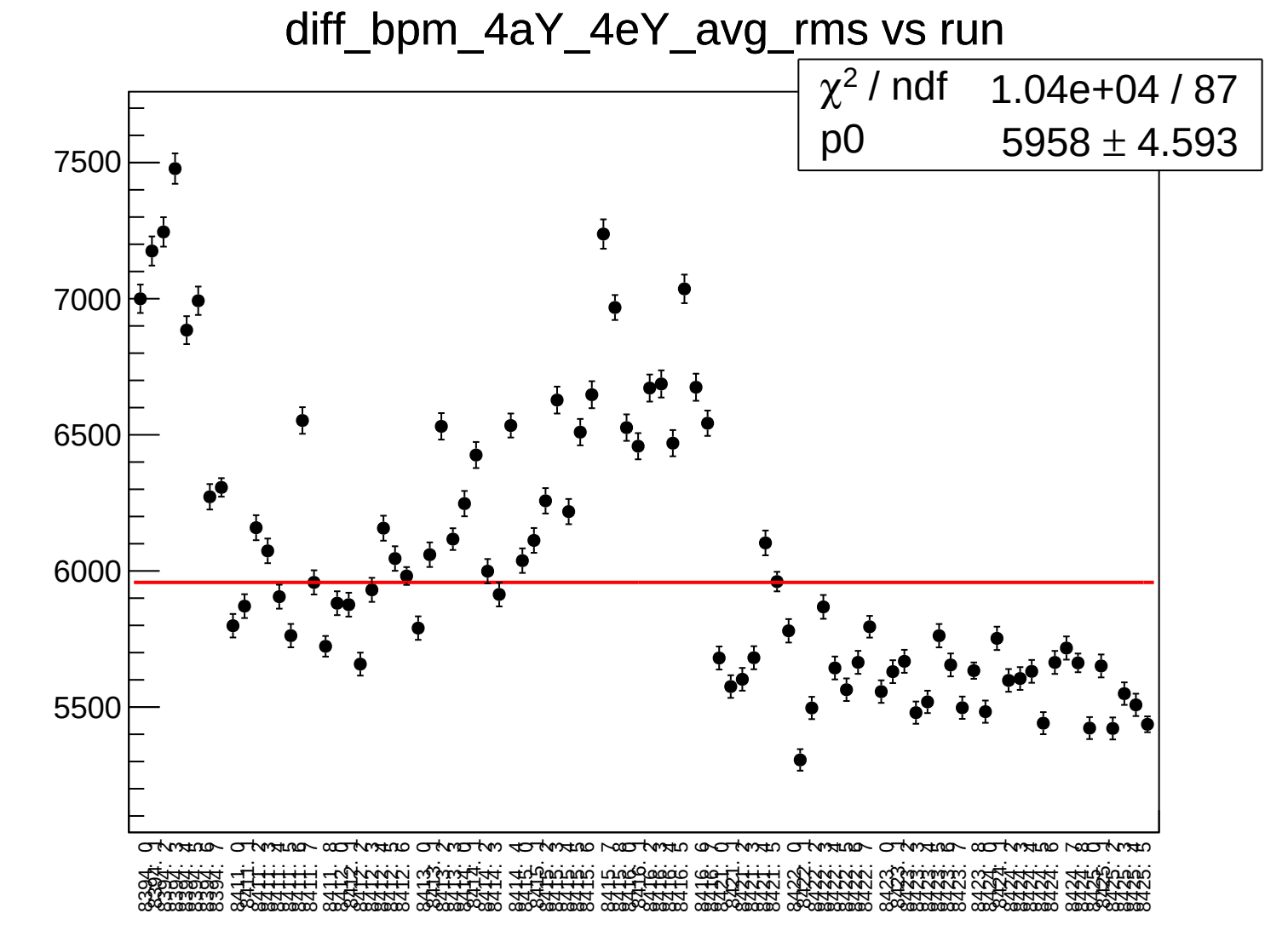

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 83.32 / 87
p0 0.1518 ± 0.8364
pull
Entries 88
Mean 207.3
Std Dev 0

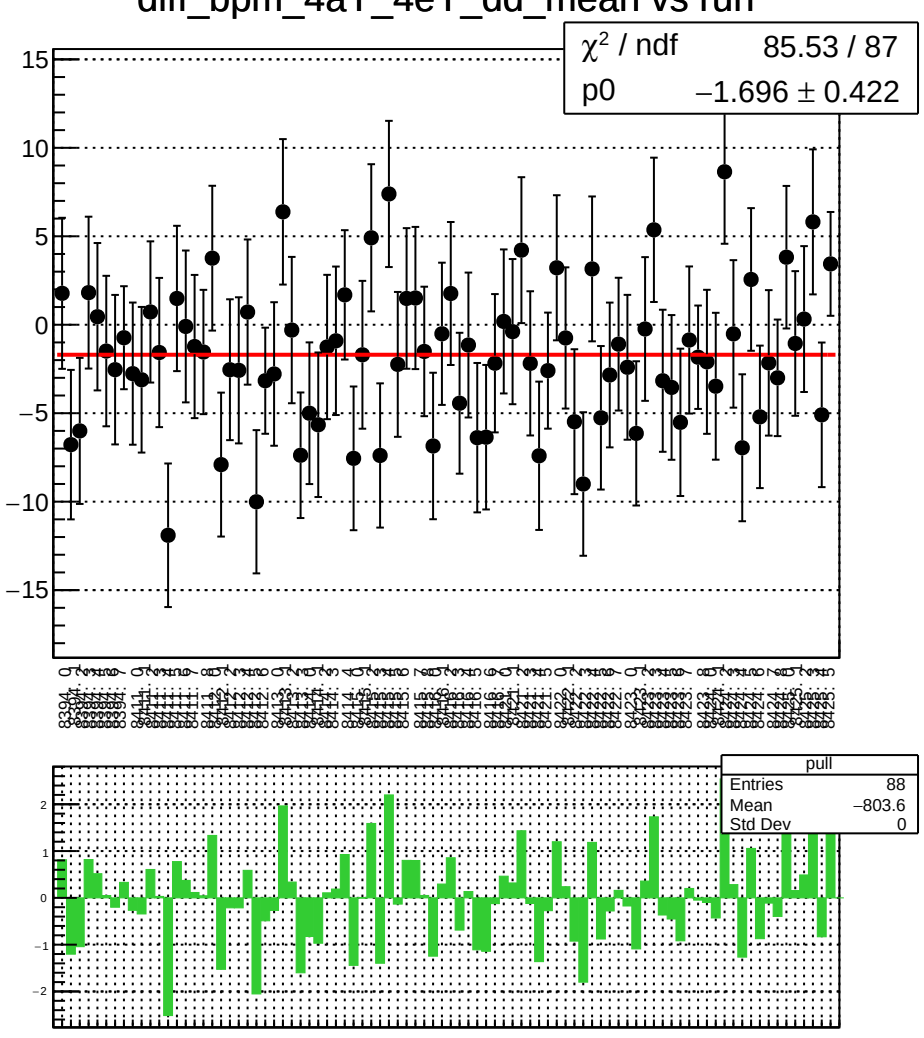

pull1D
Entries 88
Mean 0.009718
Std Dev 0.973

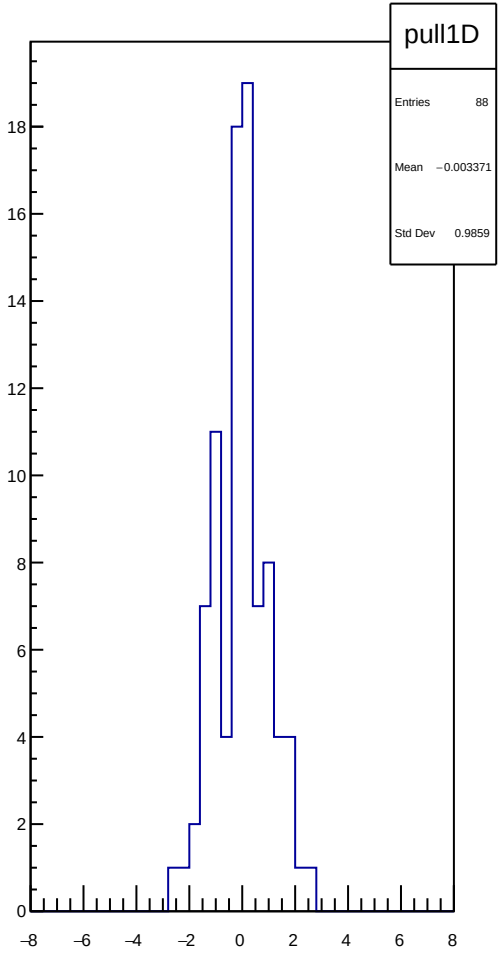

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 327.7 / 87
p0 769.5 ± 0.5915
800
790
780
770
760
750
740

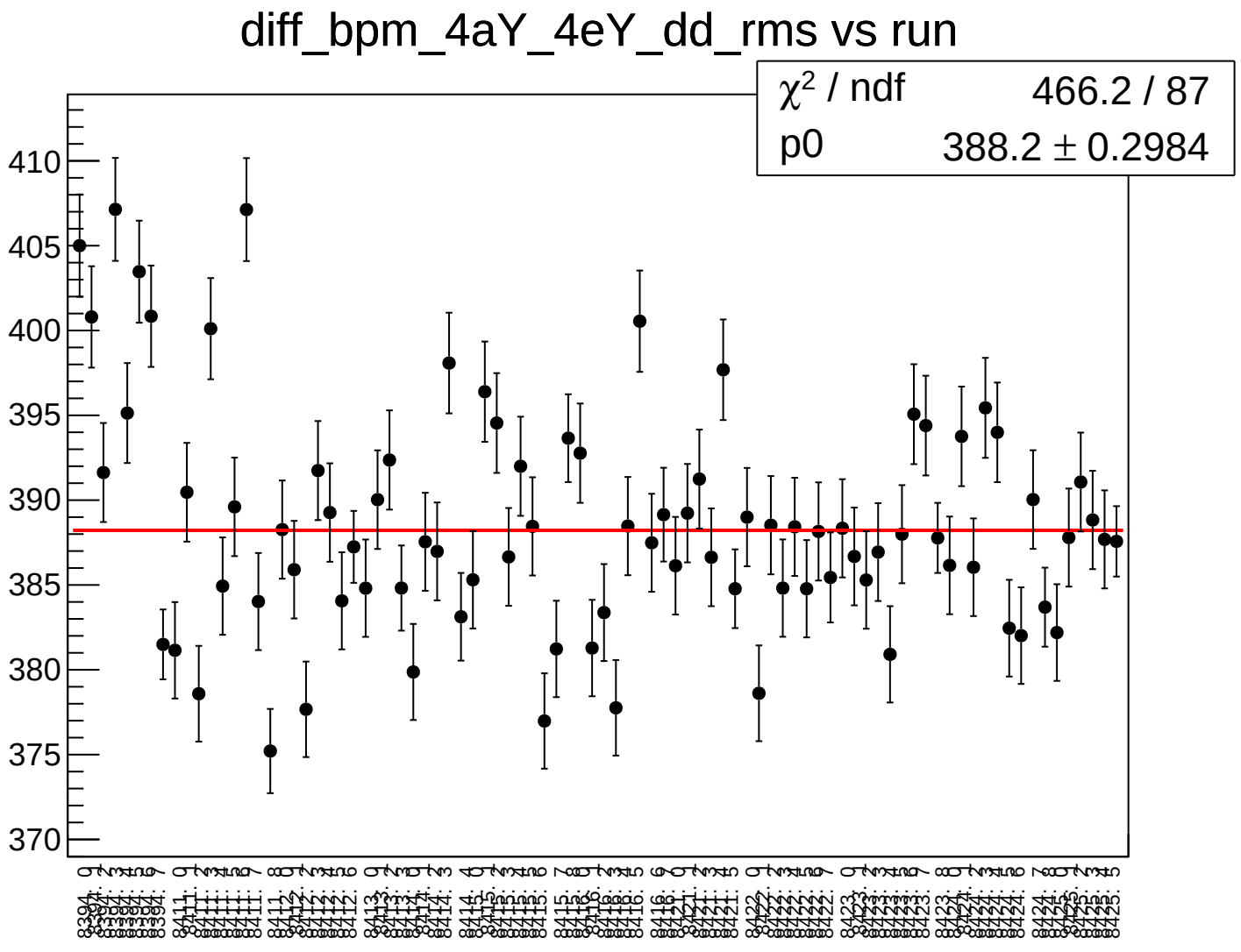

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 106 / 87
p0 31.96 ± 6.496
200
100
0
−100
−200
pull
Entries 88
Mean −127
Std Dev 0
2
1
0
−1
−2

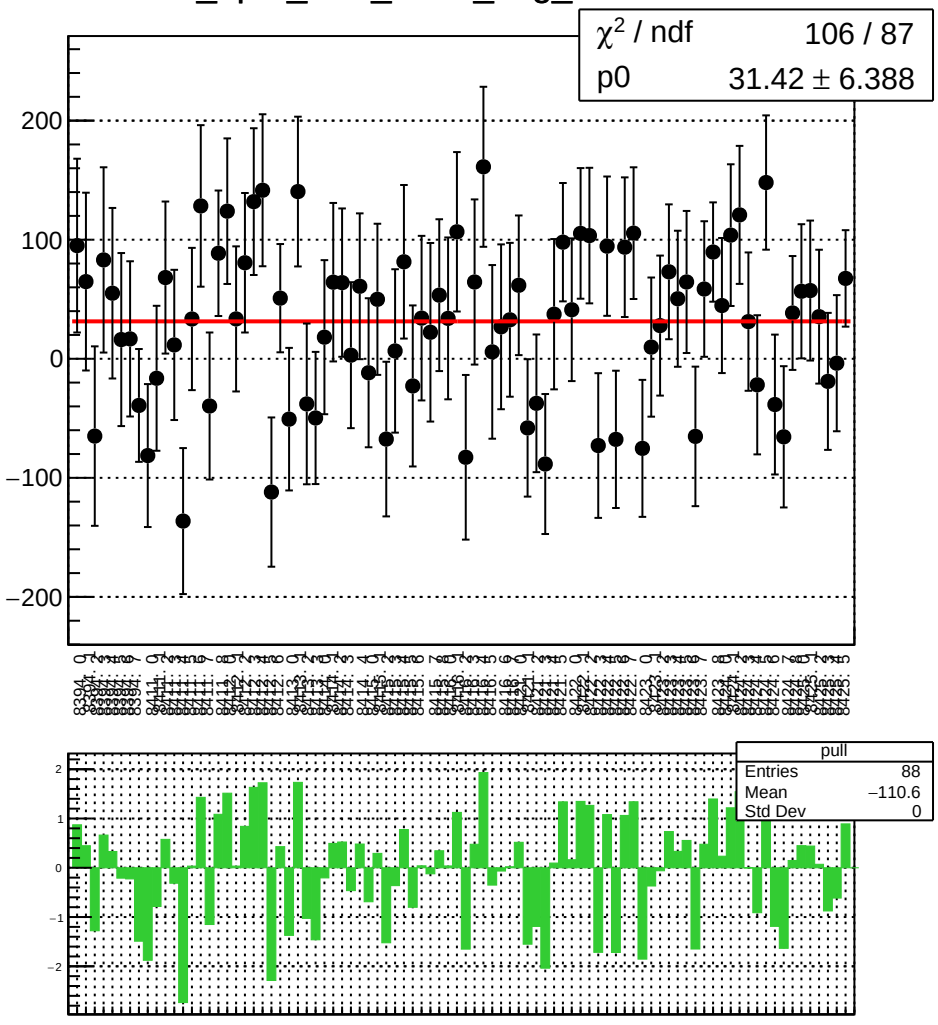

pull1D
Entries 88
Mean −0.01217
Std Dev 1.097
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

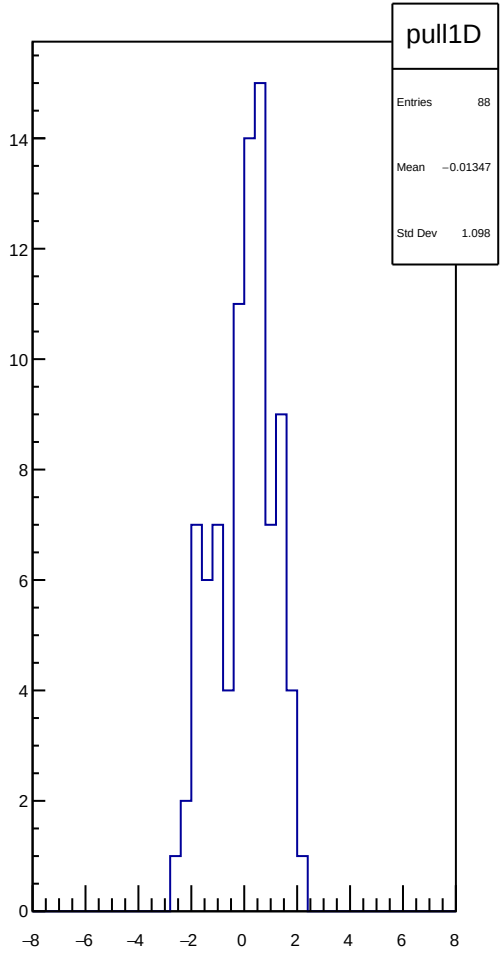

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 1.04e+04 / 87
p0 5958 ± 4.593
7500
7000
6500
6000
5500

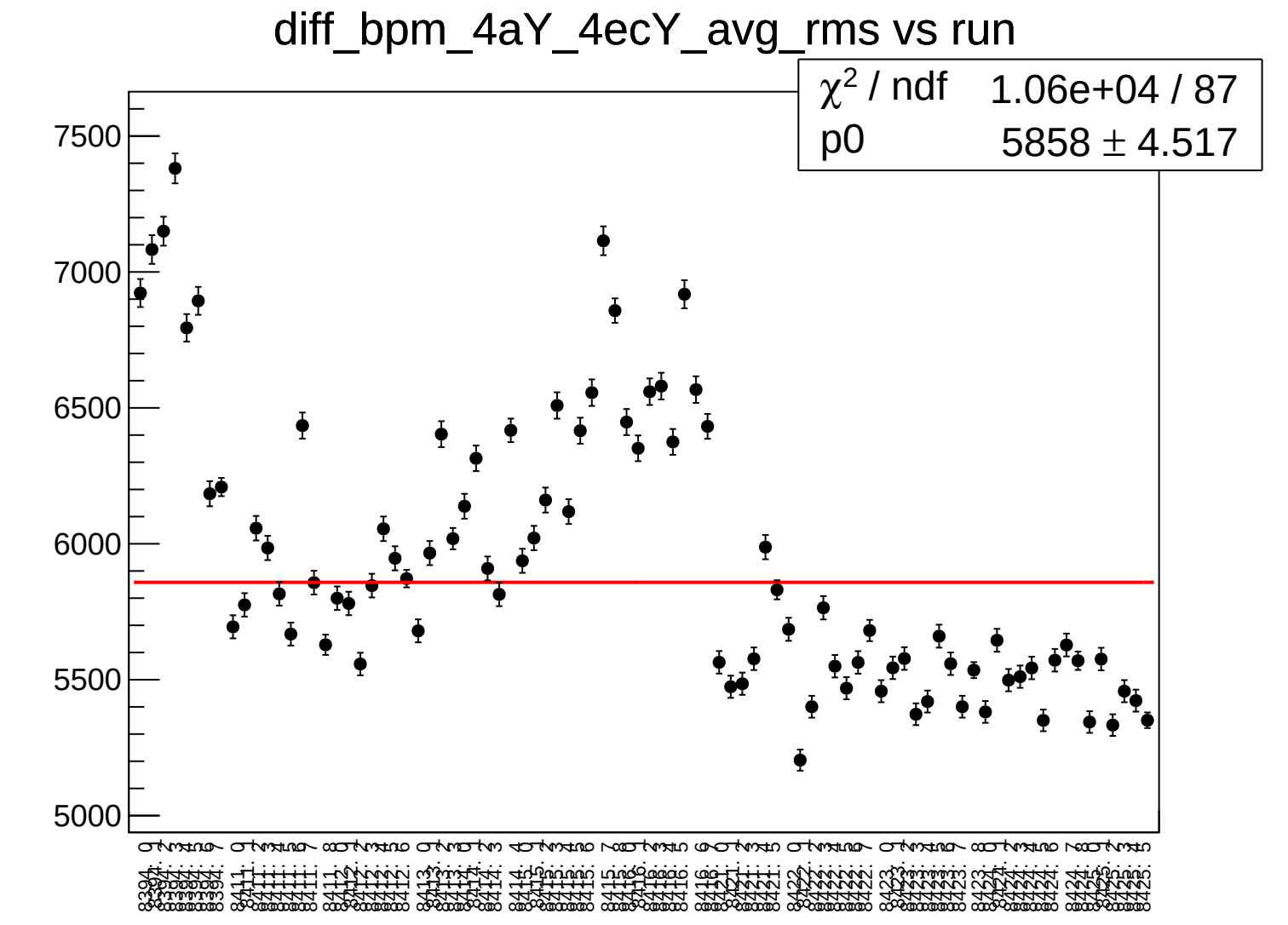

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 85.53 / 87
p0 −1.696 ± 0.422
pull
Entries 88
Mean −803.6
Std Dev 0

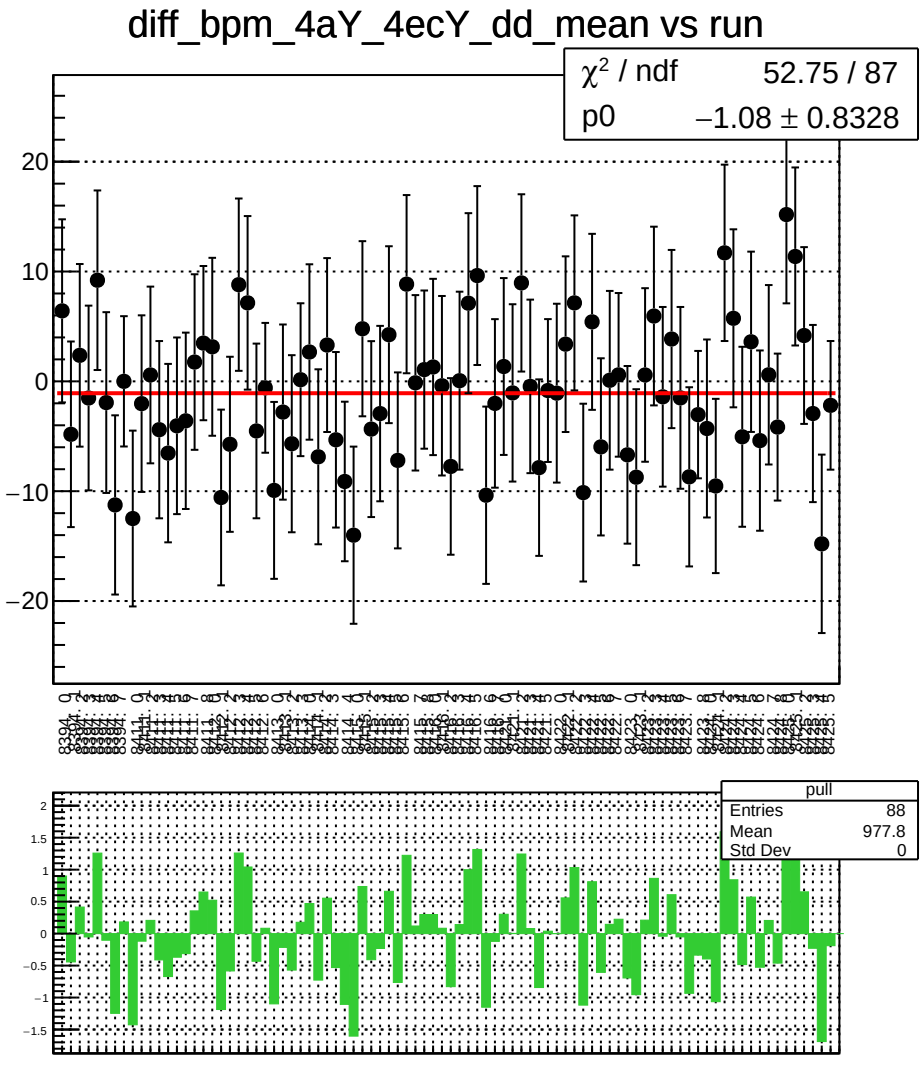

pull1D
Entries 88
Mean −0.003371
Std Dev 0.9859

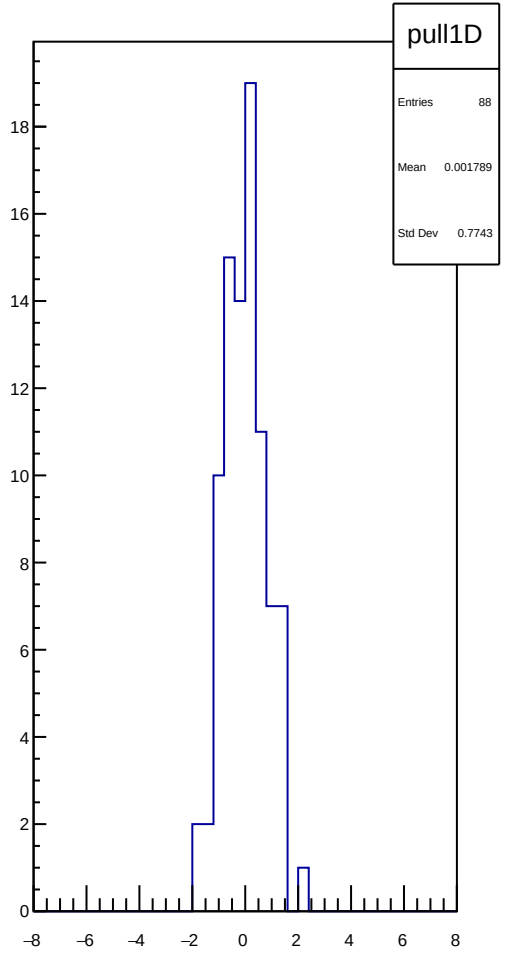

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 466.2 / 87
p0 388.2 ± 0.2984
410
405
400
395
390
385
380
375
370

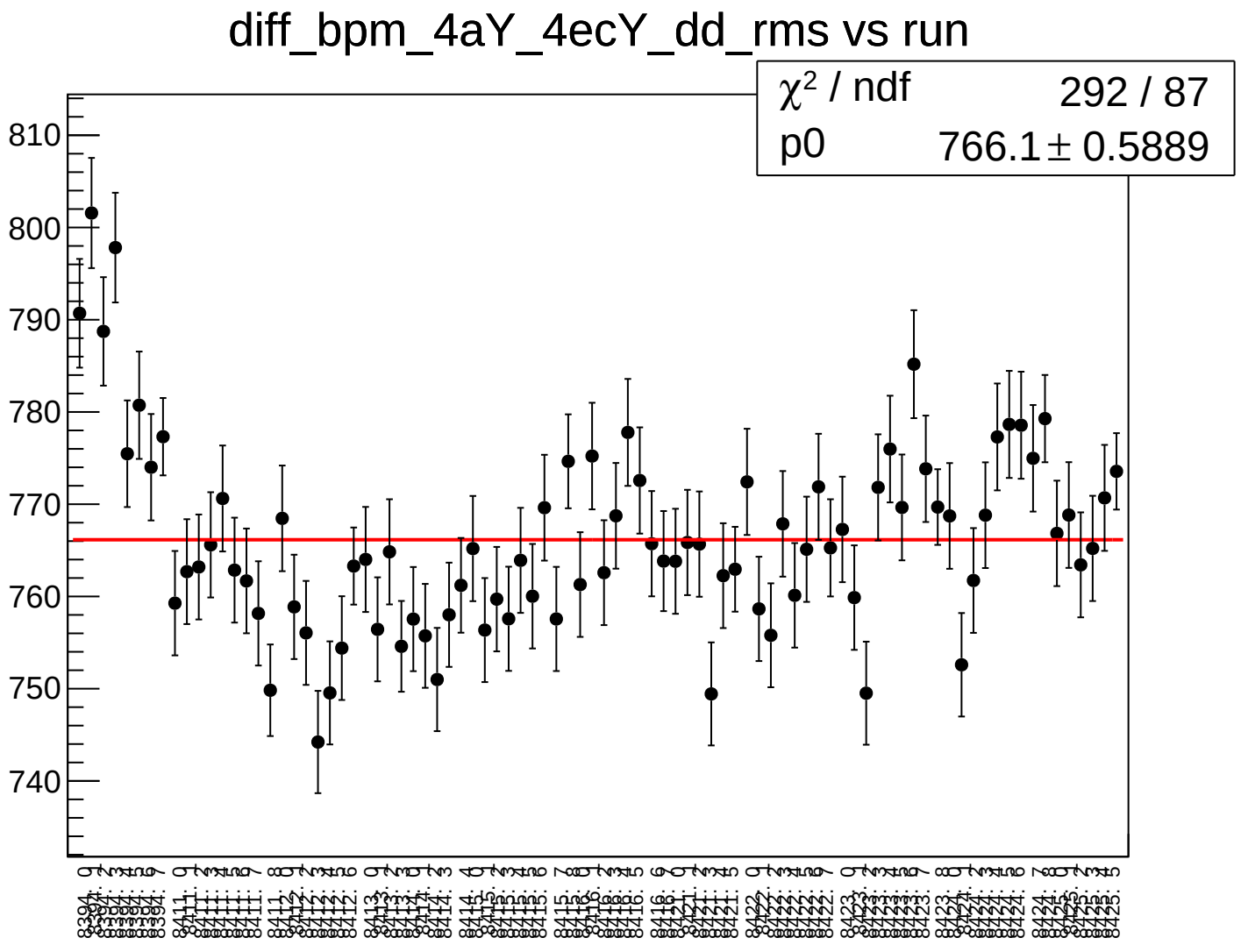

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 106 / 87
p0 31.42 ± 6.388
200
100
0
−100
−200
pull
Entries 88
Mean −110.6
Std Dev 0
2
1
0
−1
−2

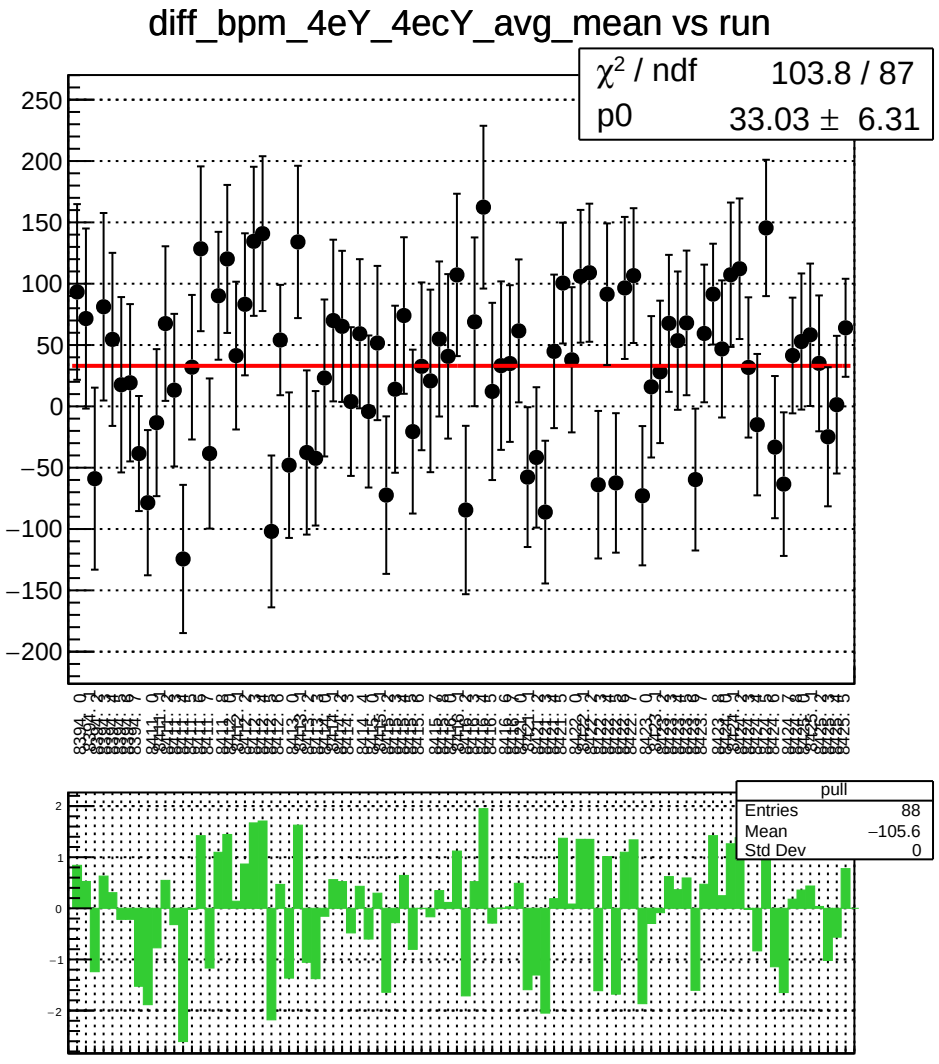

pull1D
Entries 88
Mean −0.01347
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

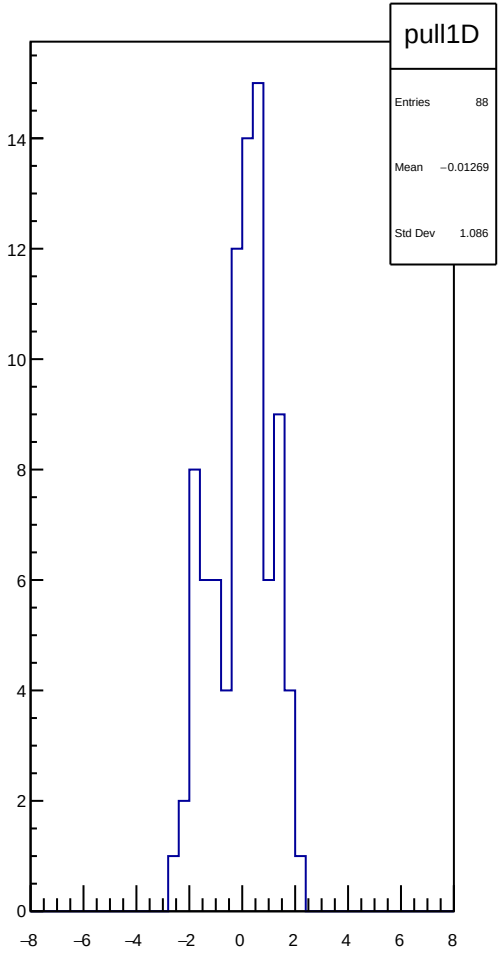

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 1.06e+04 / 87
p0 5858 ± 4.517
7500
7000
6500
6000
5500
5000

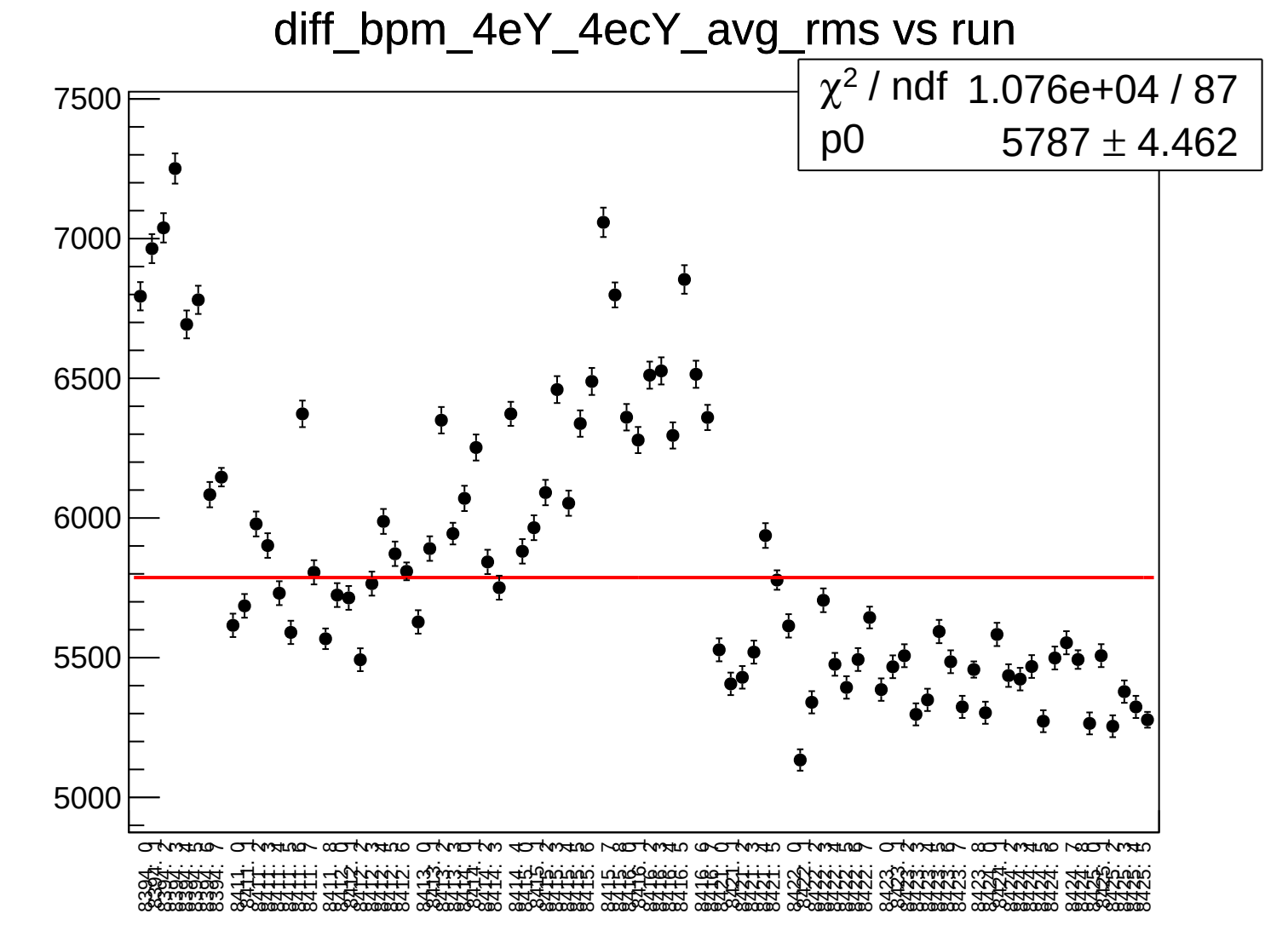

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 52.75 / 87
p0 −1.08 ± 0.8328
20
10
0
−10
−20
pull
Entries 88
Mean 977.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

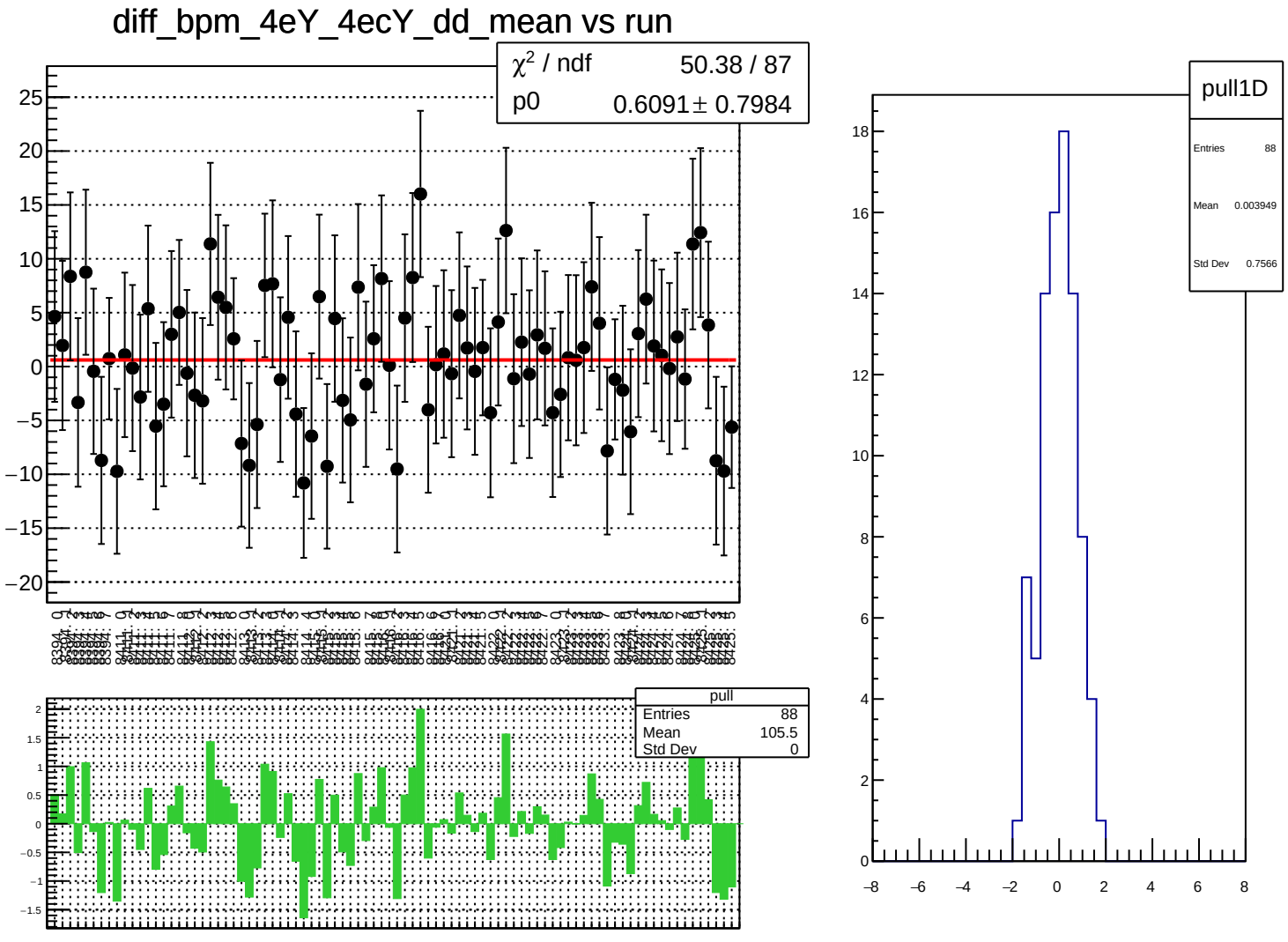

pull1D
Entries 88
Mean 0.001789
Std Dev 0.7743
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

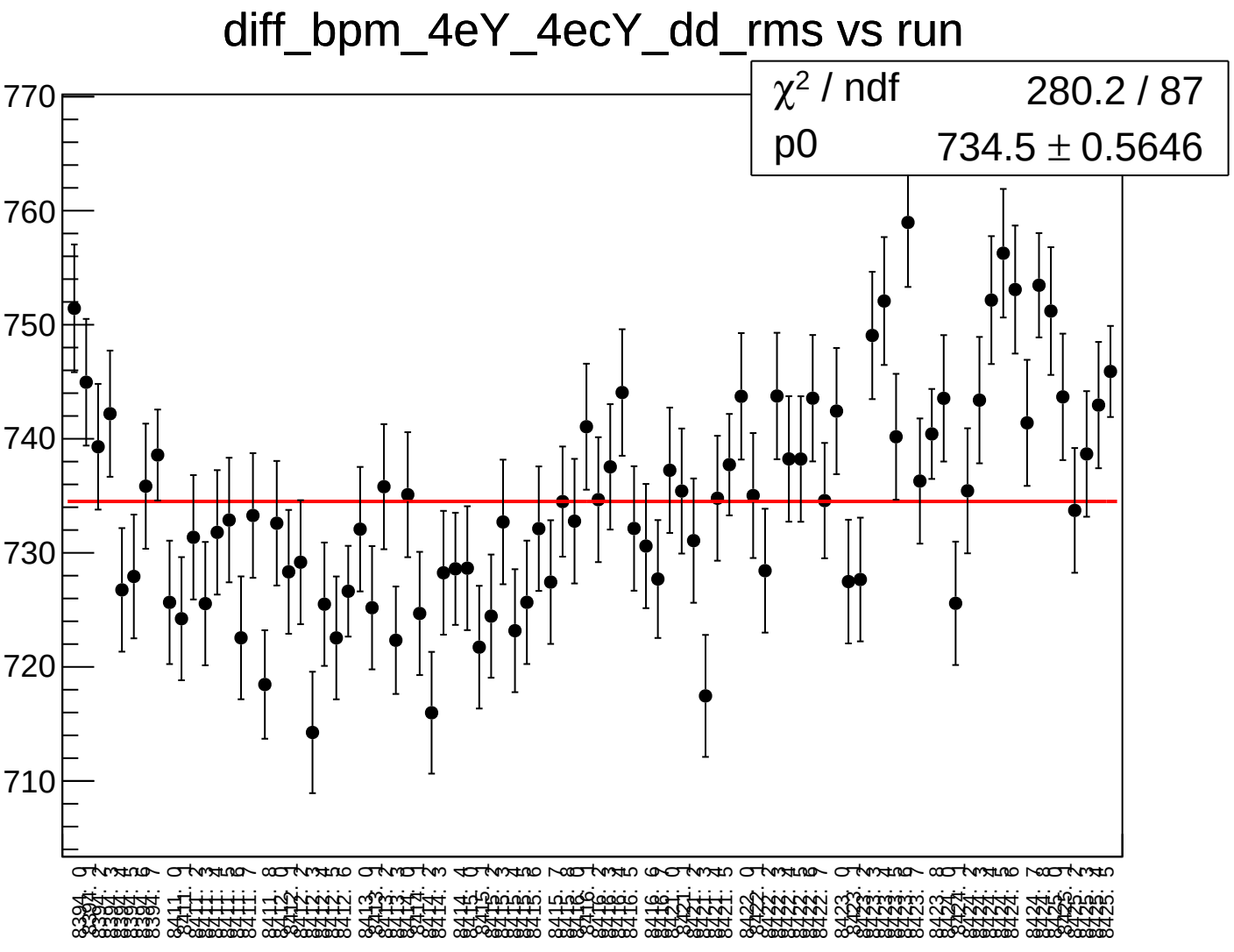

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 292 / 87
p0 766.1 ± 0.5889
810
800
790
780
770
760
750
740

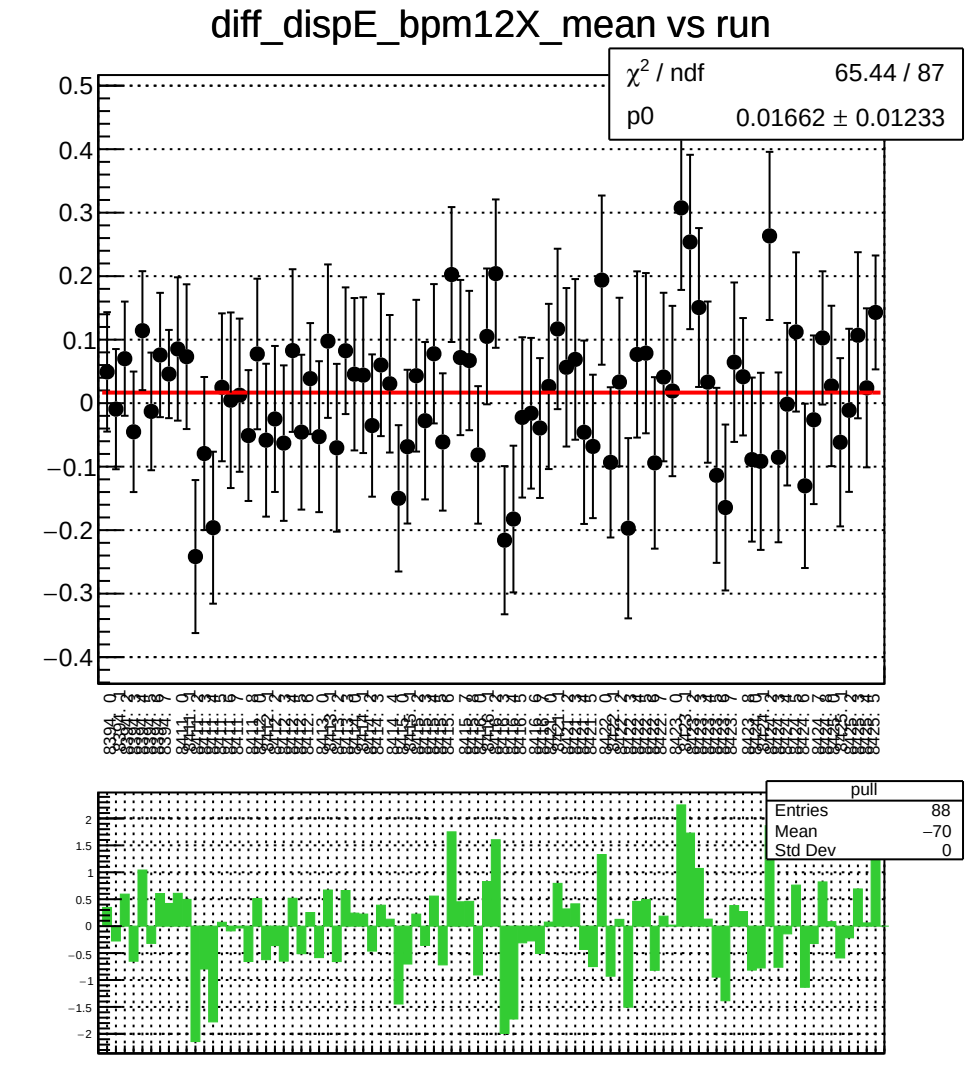

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 103.8 / 87
p0 33.03 ± 6.31
pull
Entries 88
Mean −105.6
Std Dev 0

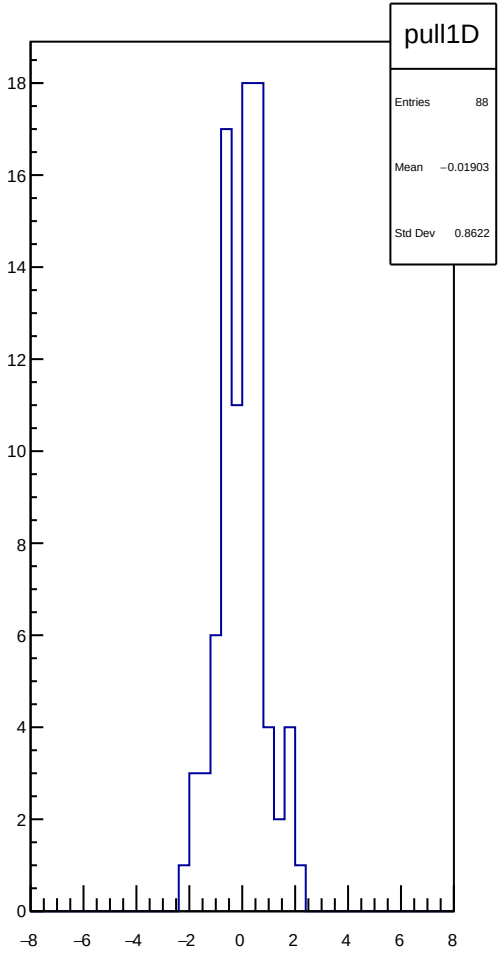

pull1D
Entries 88
Mean −0.01269
Std Dev 1.086

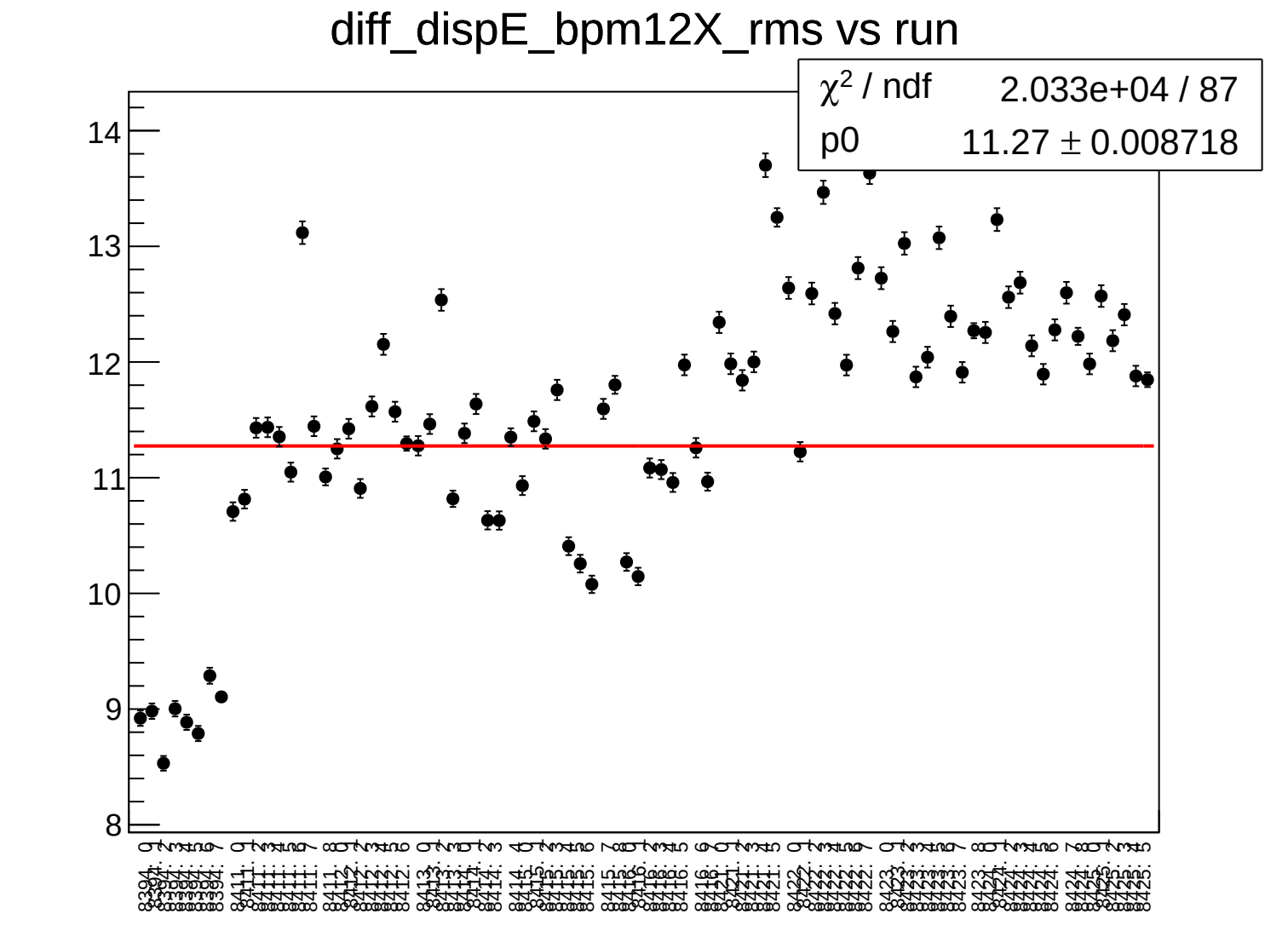

diff_bpm_4eY_4ecY_avg_rms vs run
χ^2 / ndf 1.076e+04 / 87
p0 5787 ± 4.462
7500
7000
6500
6000
5500
5000

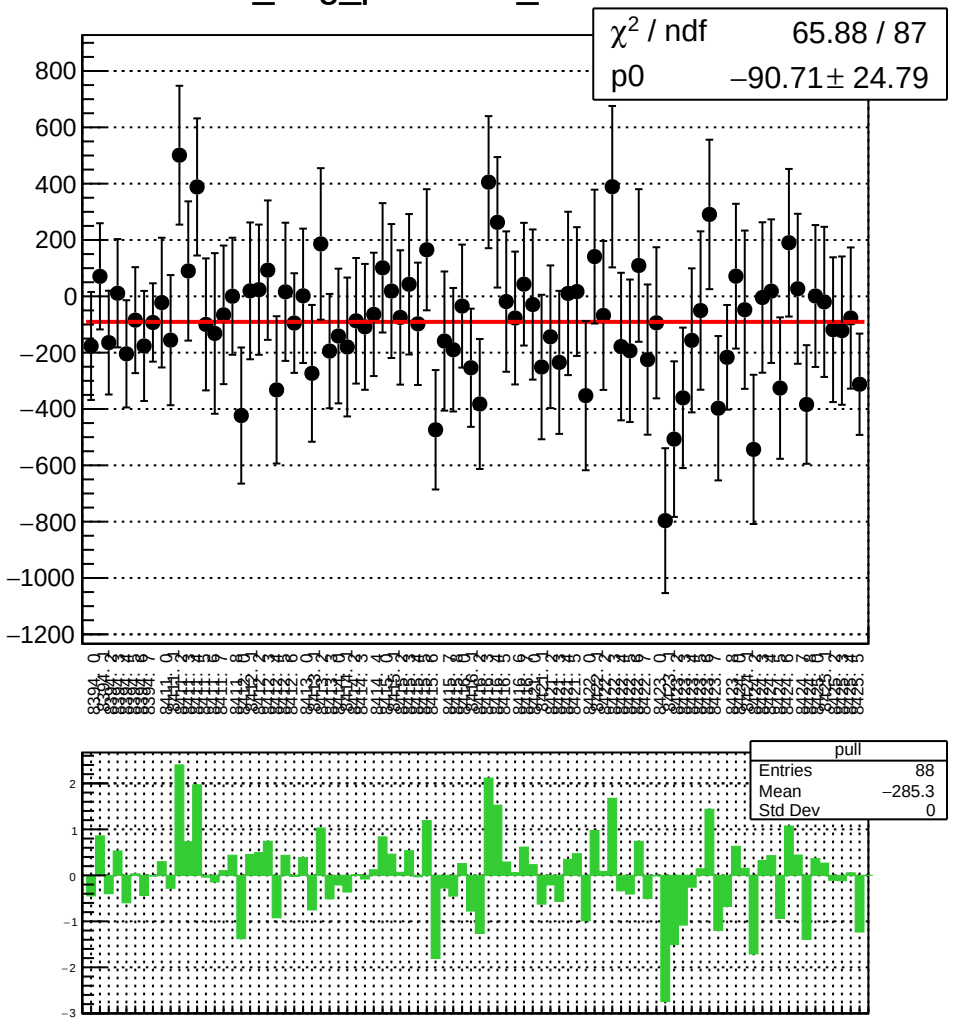

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 50.38 / 87
p0 0.6091 ± 0.7984
pull
Entries 88
Mean 105.5
Std Dev 0
pull1D
Entries 88
Mean 0.003949
Std Dev 0.7566

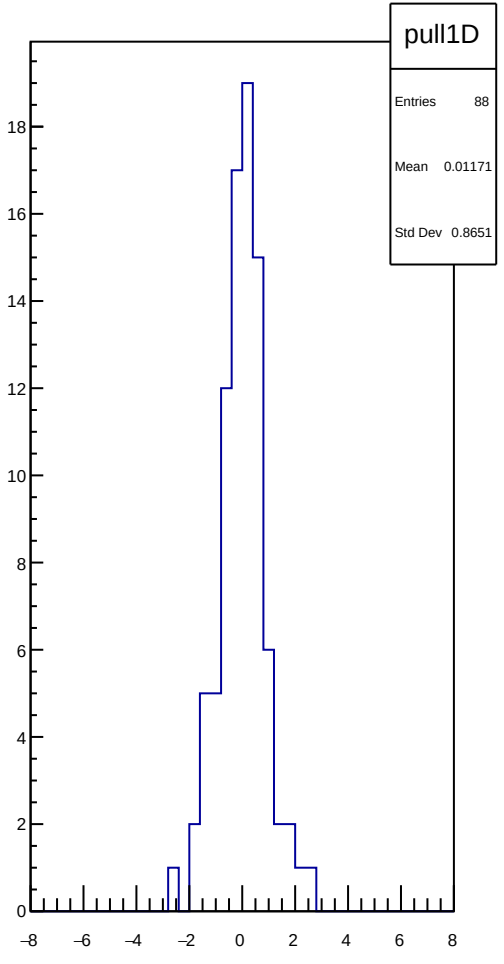

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 280.2 / 87
p0 734.5 ± 0.5646
770
760
750
740
730
720
710

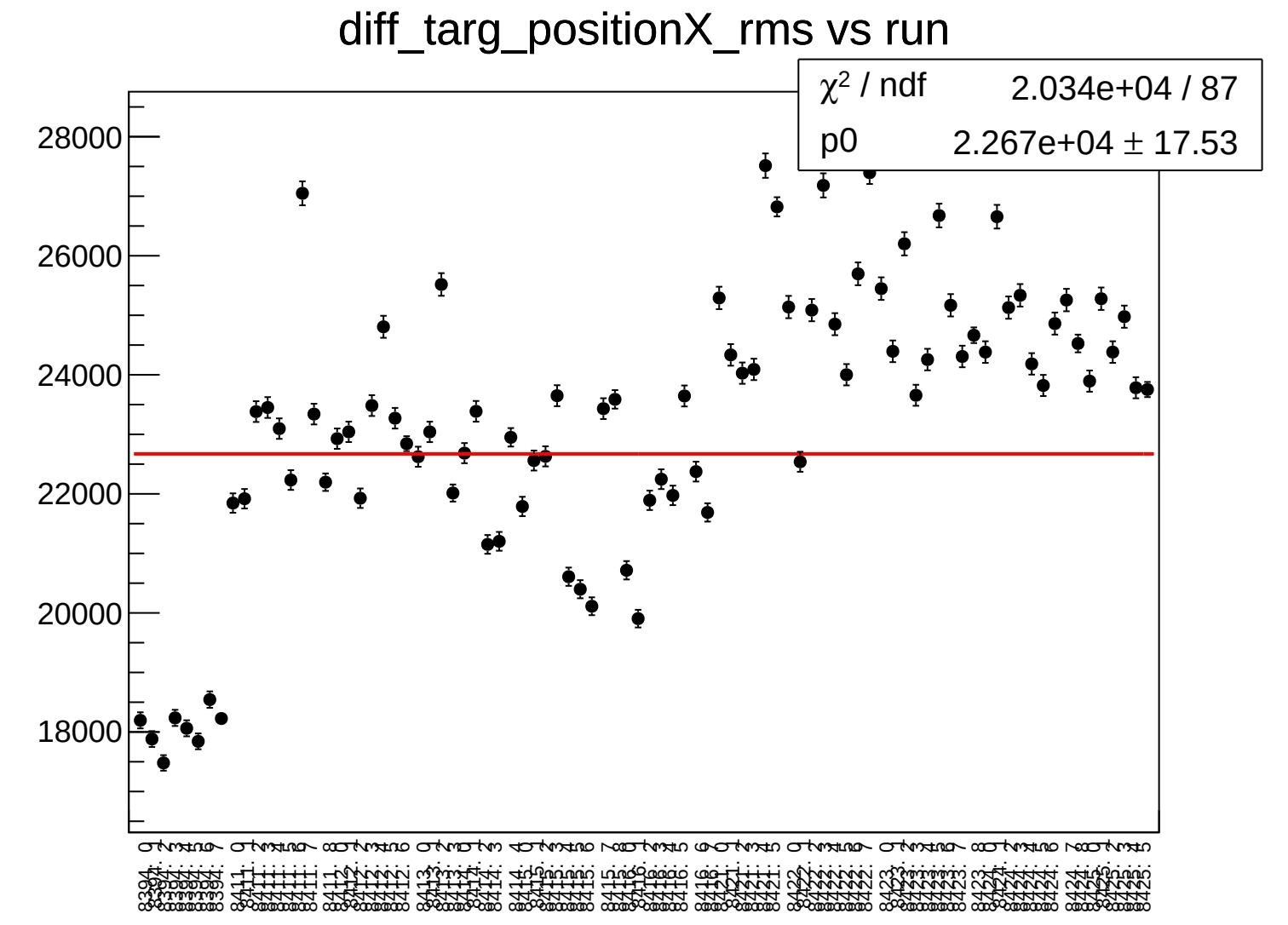

diff_dispE_bpm12X_mean vs run
χ² / ndf 65.44 / 87
p0 0.01662 ± 0.01233
pull
Entries 88
Mean −70
Std Dev 0

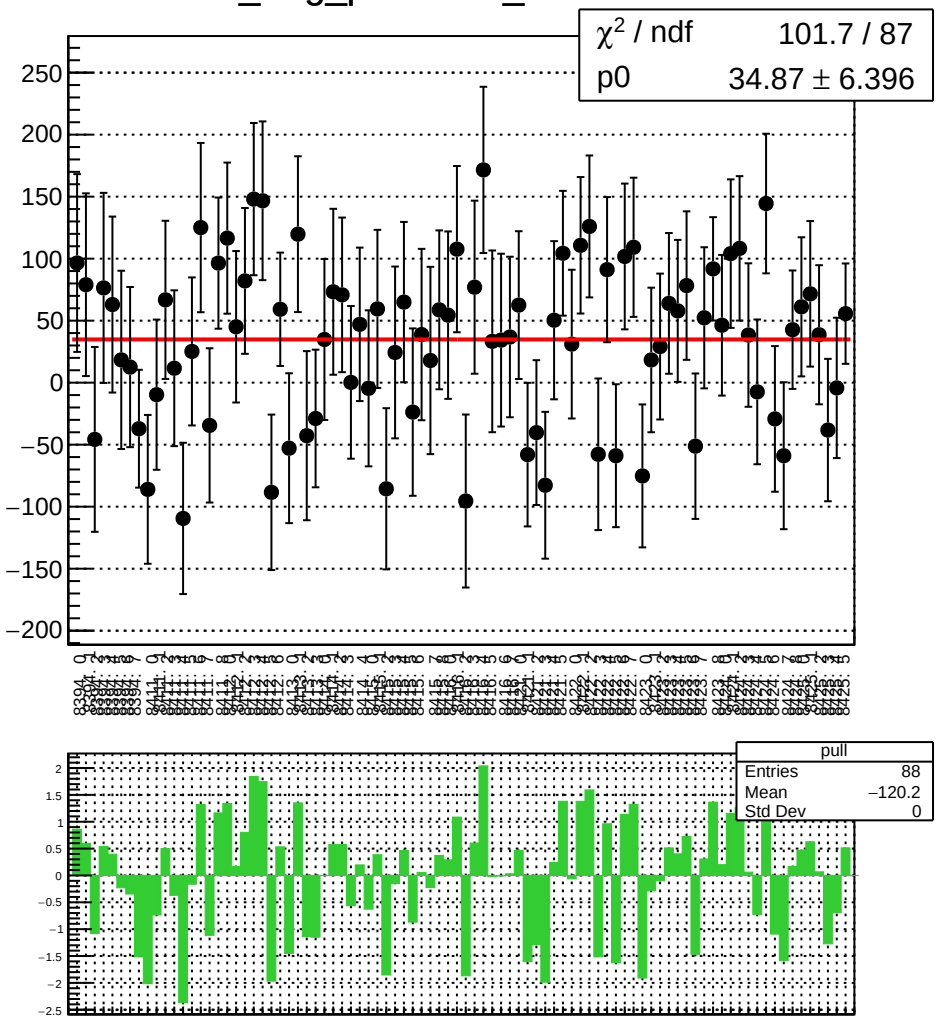

pull1D
Entries 88
Mean −0.01903
Std Dev 0.8622

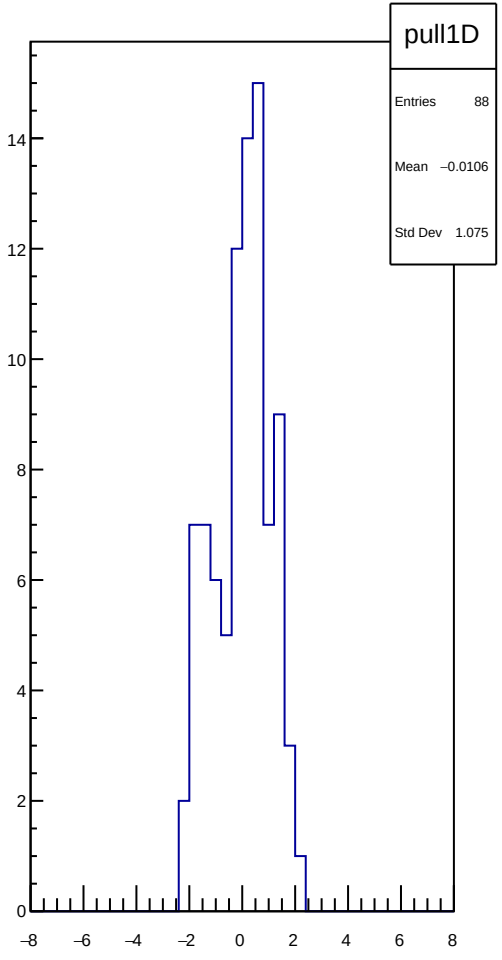

diff_dispE_bpm12X_rms vs run
χ^2 / ndf 2.033e+04 / 87
p0 11.27 ± 0.008718
14
13
12
11
10
9
8

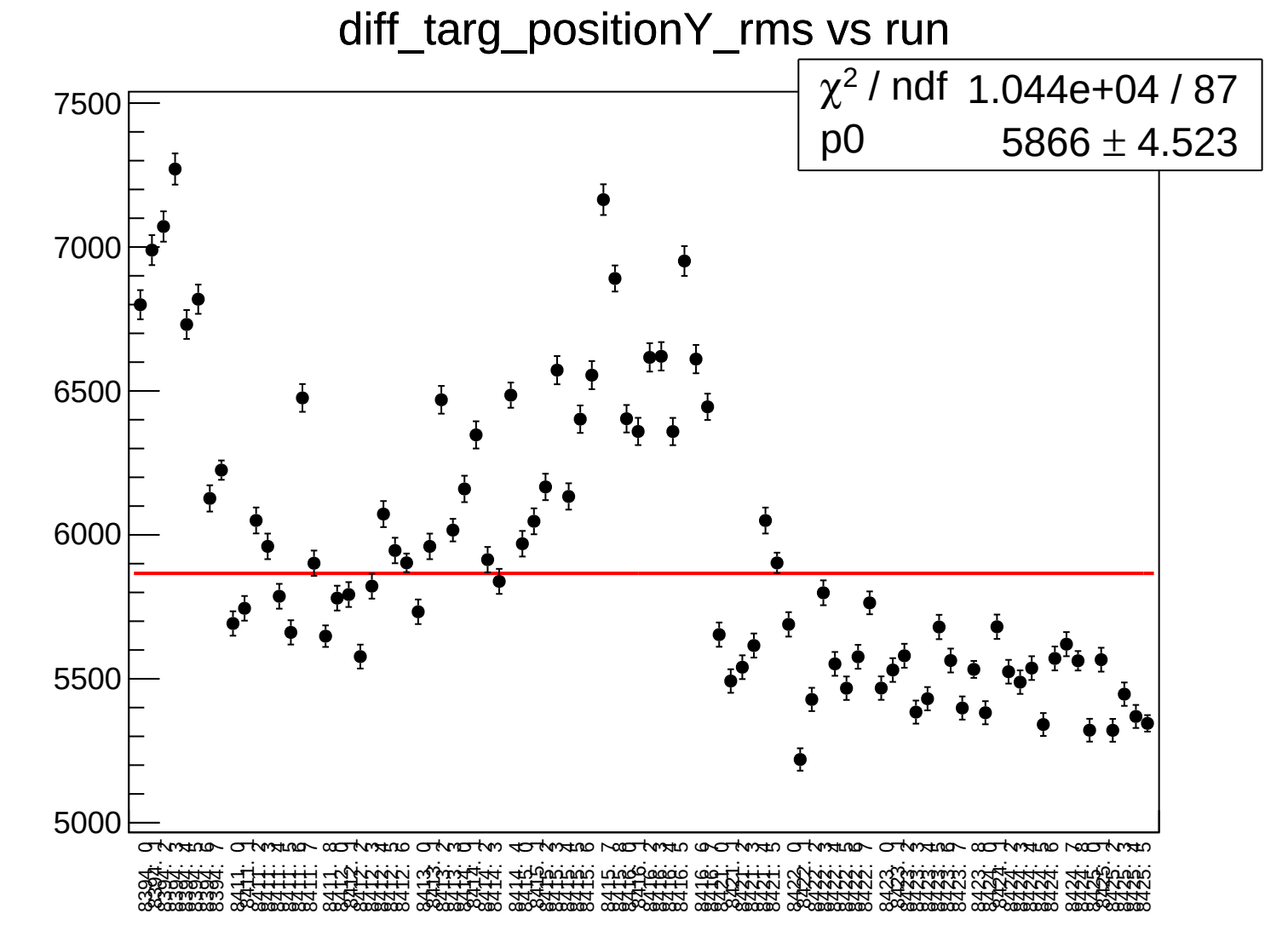

diff_targ_positionX_mean vs run
χ² / ndf 65.88 / 87
p0 −90.71± 24.79
pull
Entries 88
Mean −285.3
Std Dev 0

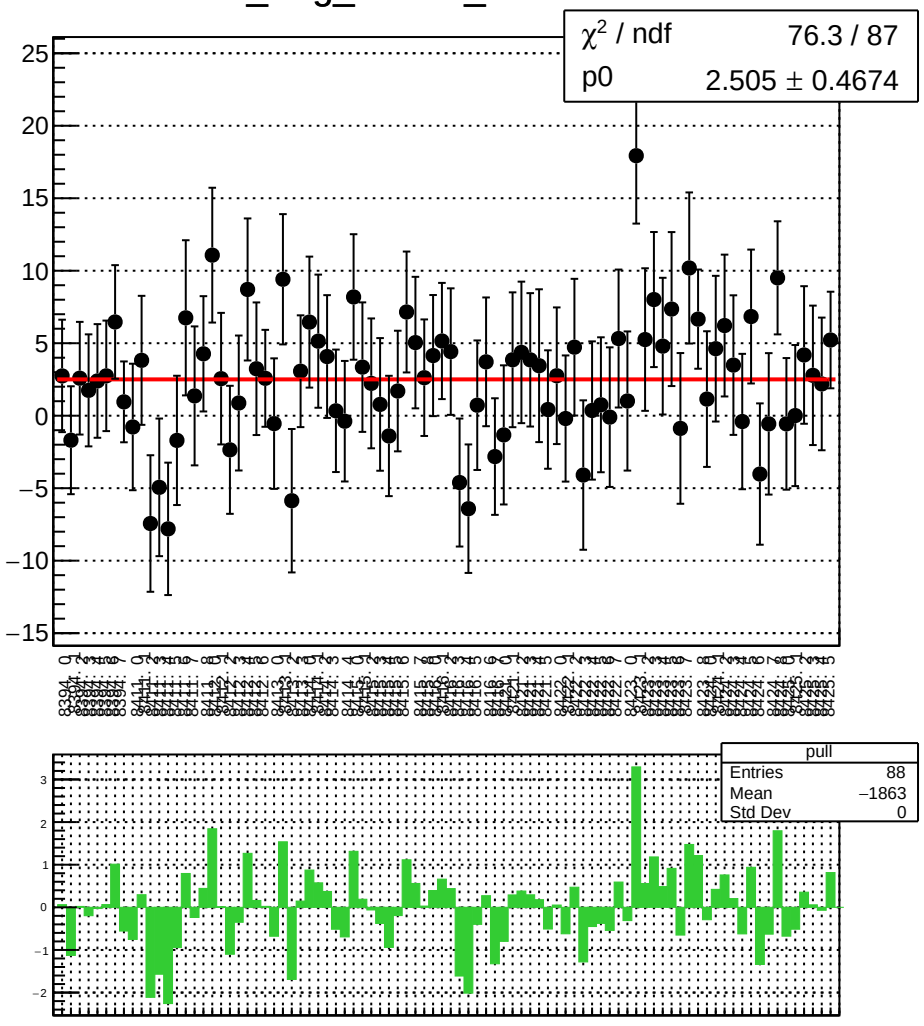

pull1D
Entries 88
Mean 0.01171
Std Dev 0.8651

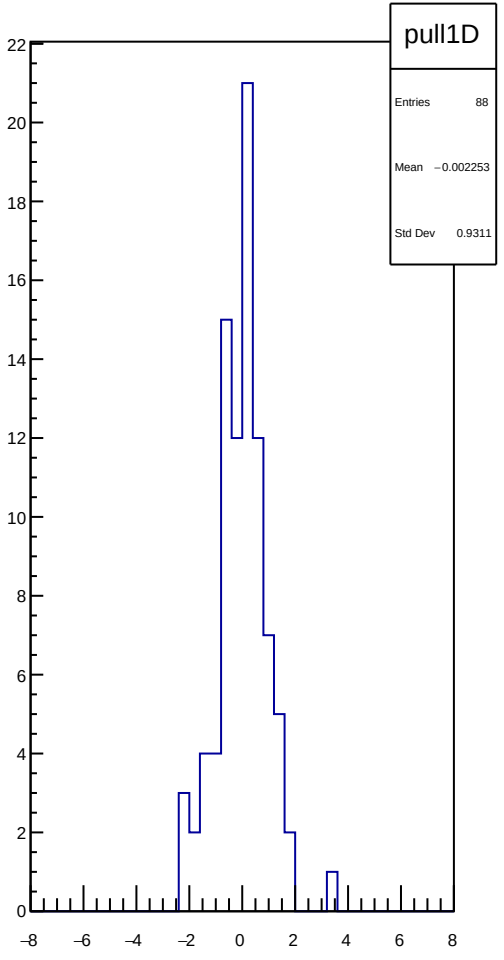

diff_targ_positionX_rms vs run
χ² / ndf 2.034e+04 / 87
p0 2.267e+04 ± 17.53
28000
26000
24000
22000
20000
18000

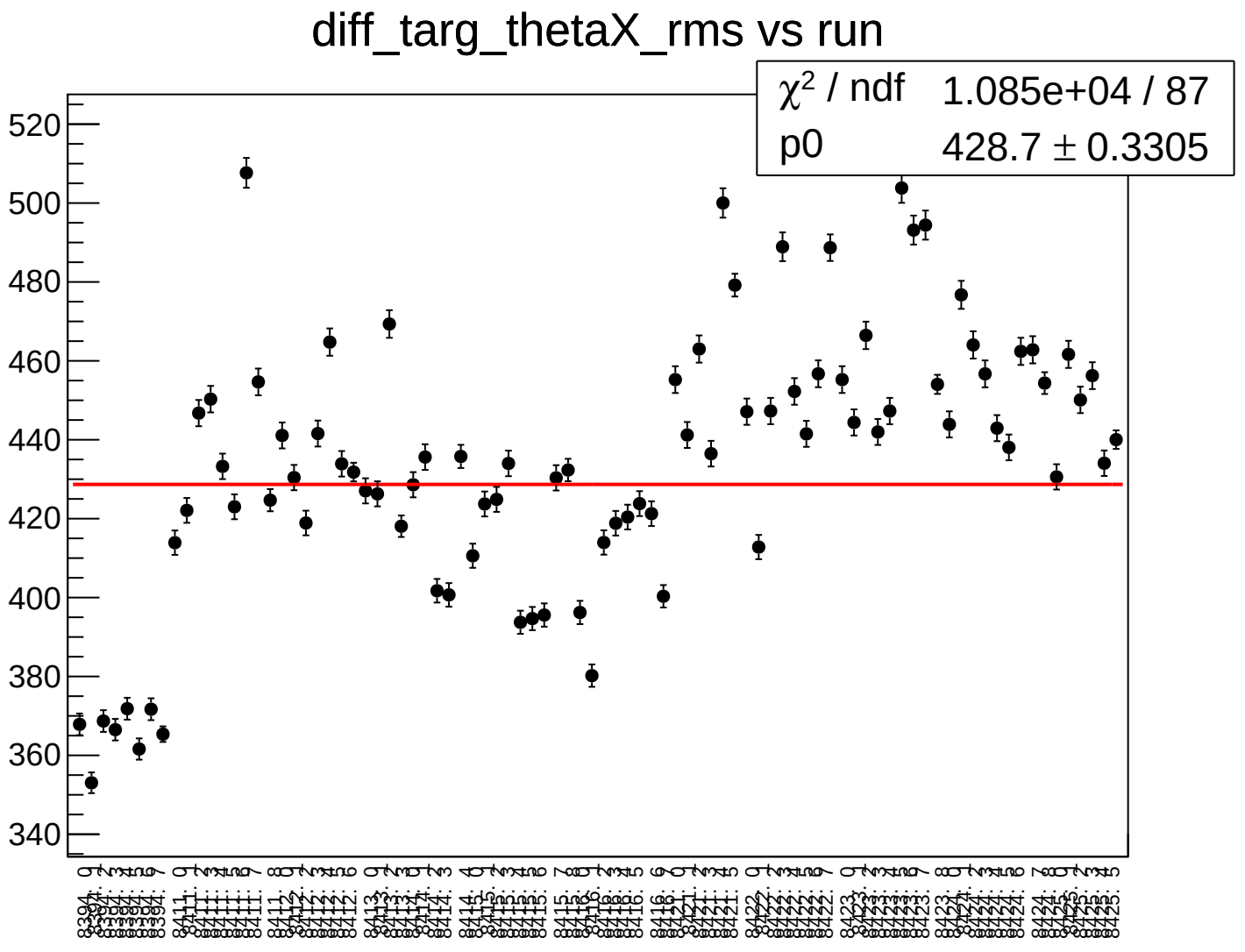

diff_targ_positionY_mean vs run
χ² / ndf 101.7 / 87
p0 34.87 ± 6.396
pull
Entries 88
Mean −120.2
Std Dev 0

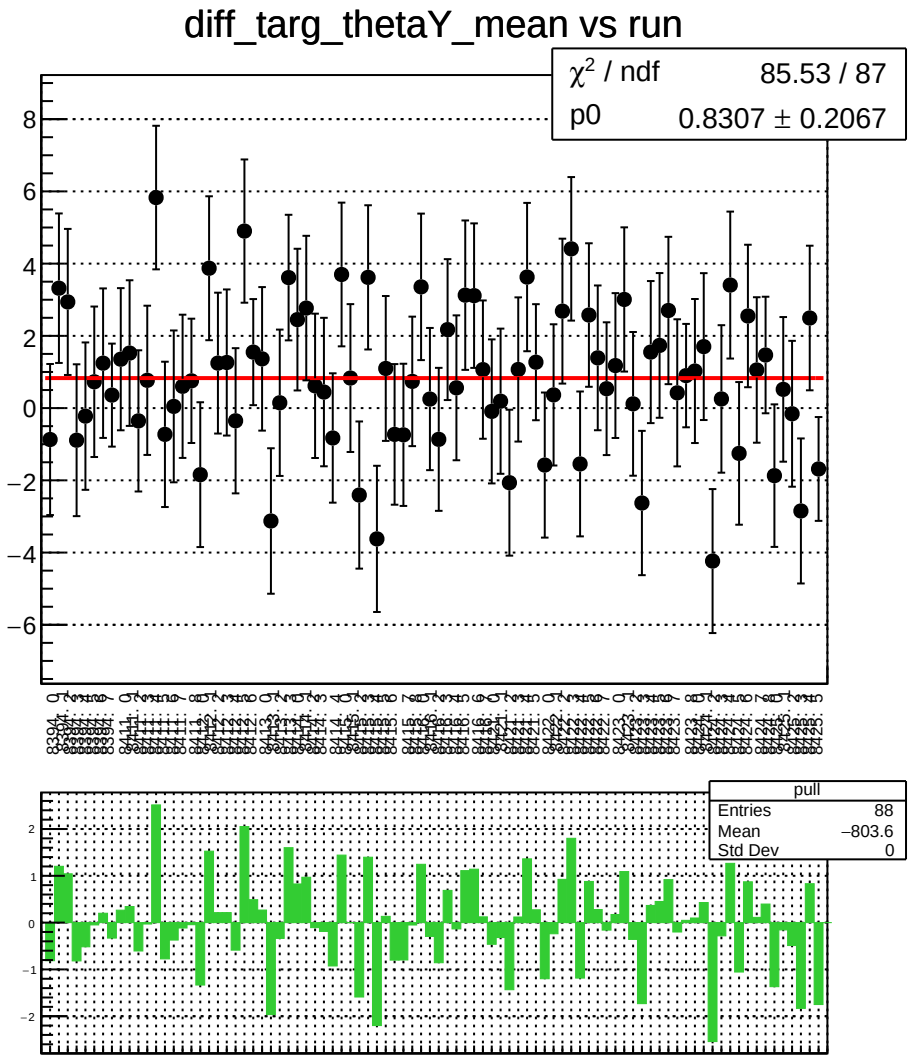

pull1D
Entries 88
Mean −0.0106
Std Dev 1.075

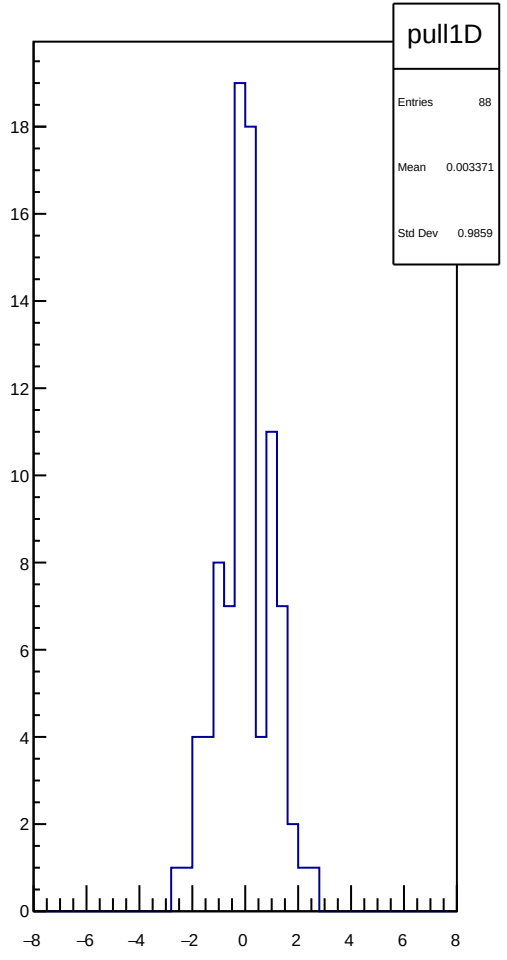

diff_targ_positionY_rms vs run
χ² / ndf 1.044e+04 / 87
p0 5866 ± 4.523
7500
7000
6500
6000
5500
5000

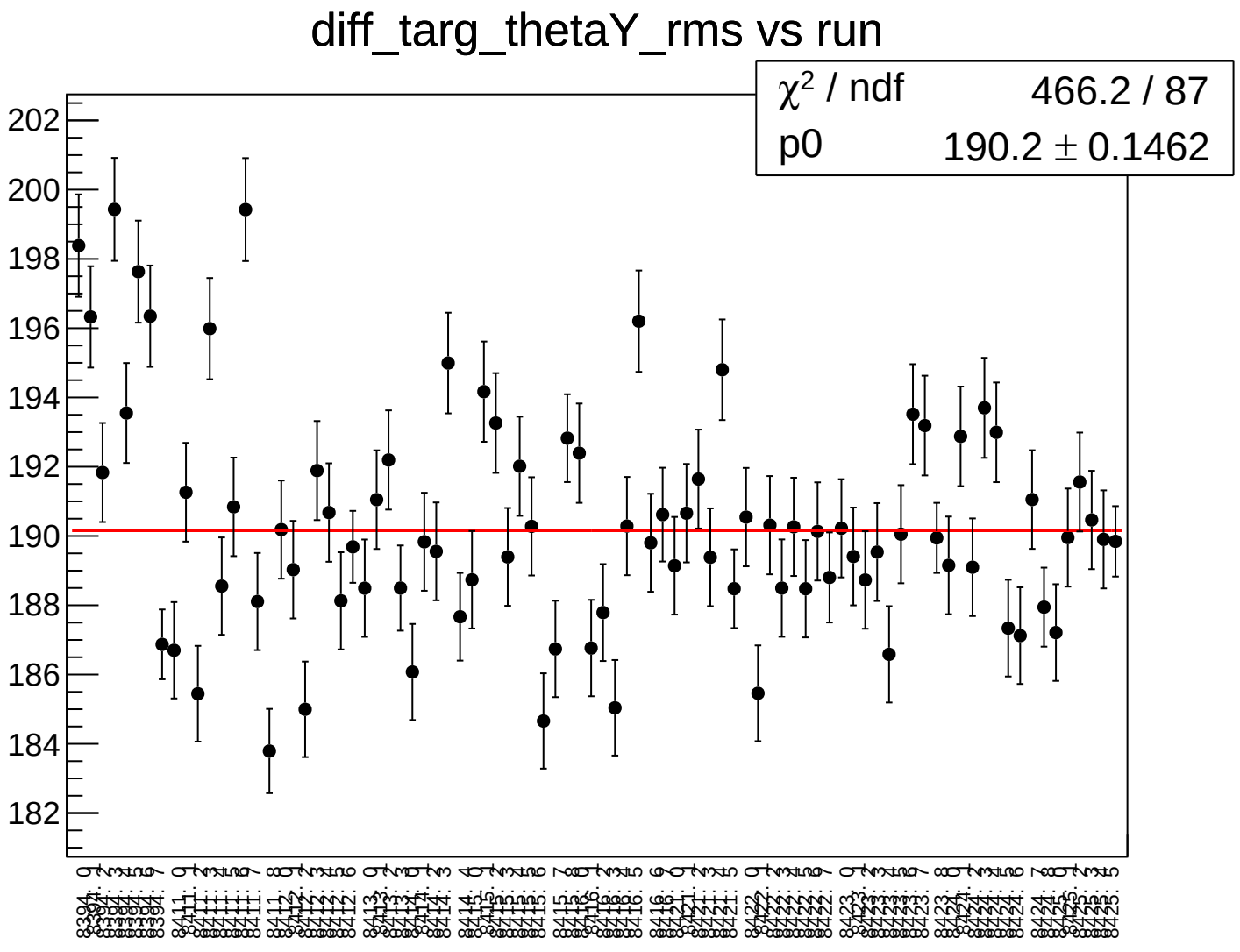

diff_targ_thetaX_mean vs run
χ² / ndf 76.3 / 87
p0 2.505 ± 0.4674
pull
Entries 88
Mean −1863
Std Dev 0

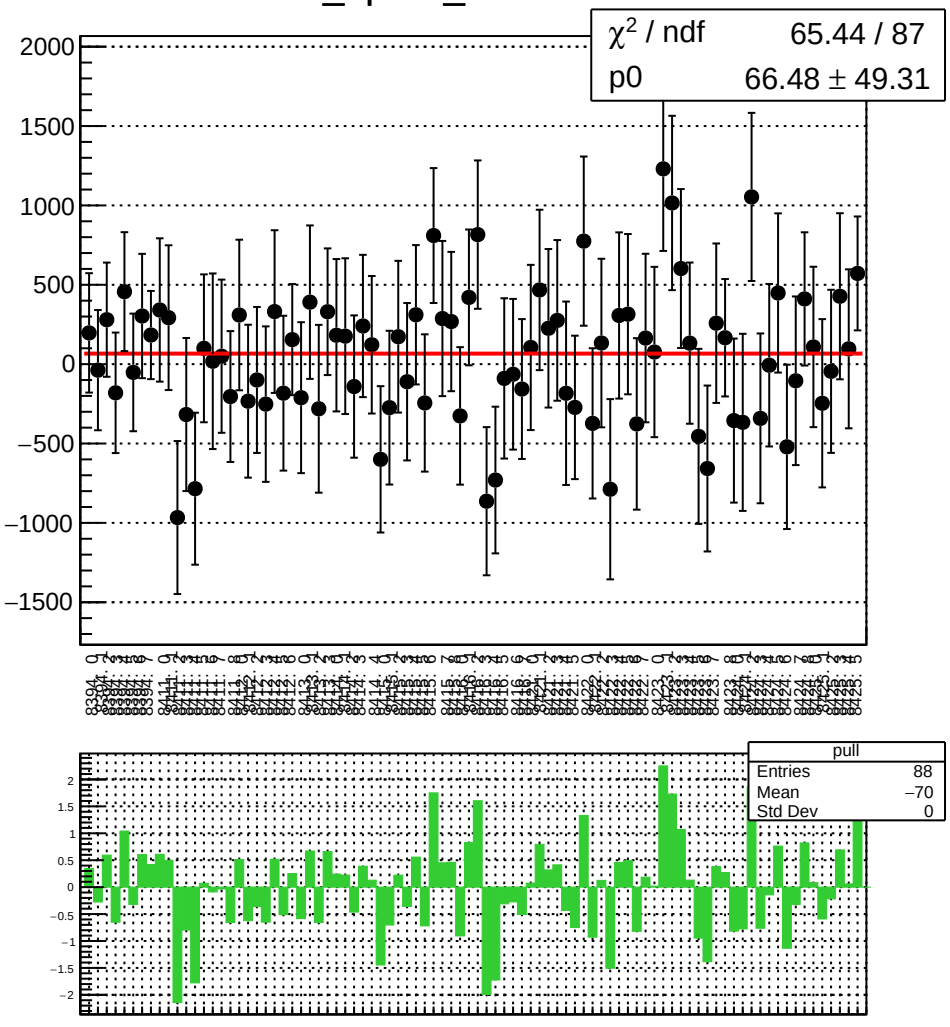

pull1D
Entries 88
Mean −0.002253
Std Dev 0.9311

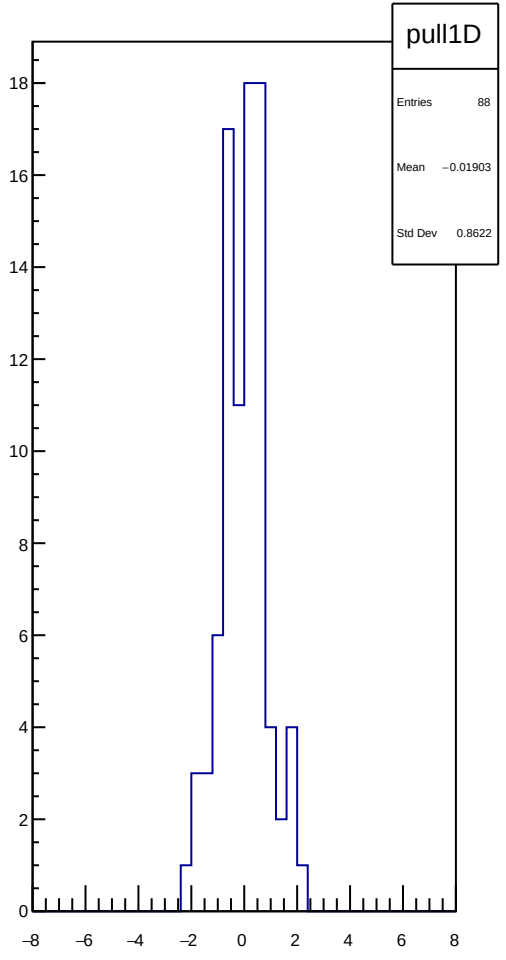

diff_targ_thetaX_rms vs run
χ² / ndf 1.085e+04 / 87
p0 428.7 ± 0.3305
520
500
480
460
440
420
400
380
360
340

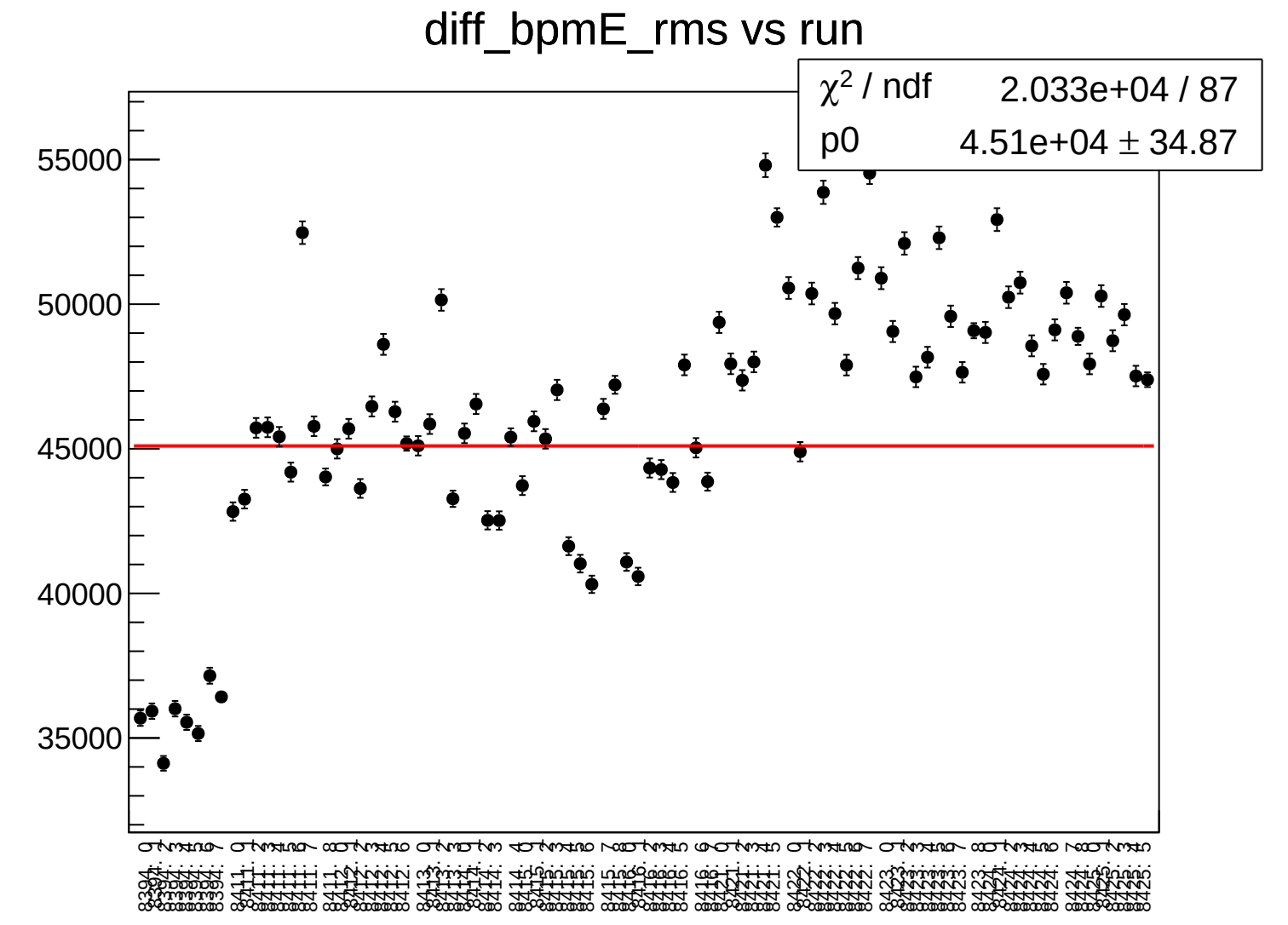

diff_targ_thetaY_mean vs run
χ² / ndf 85.53 / 87
p0 0.8307 ± 0.2067
pull
Entries 88
Mean −803.6
Std Dev 0

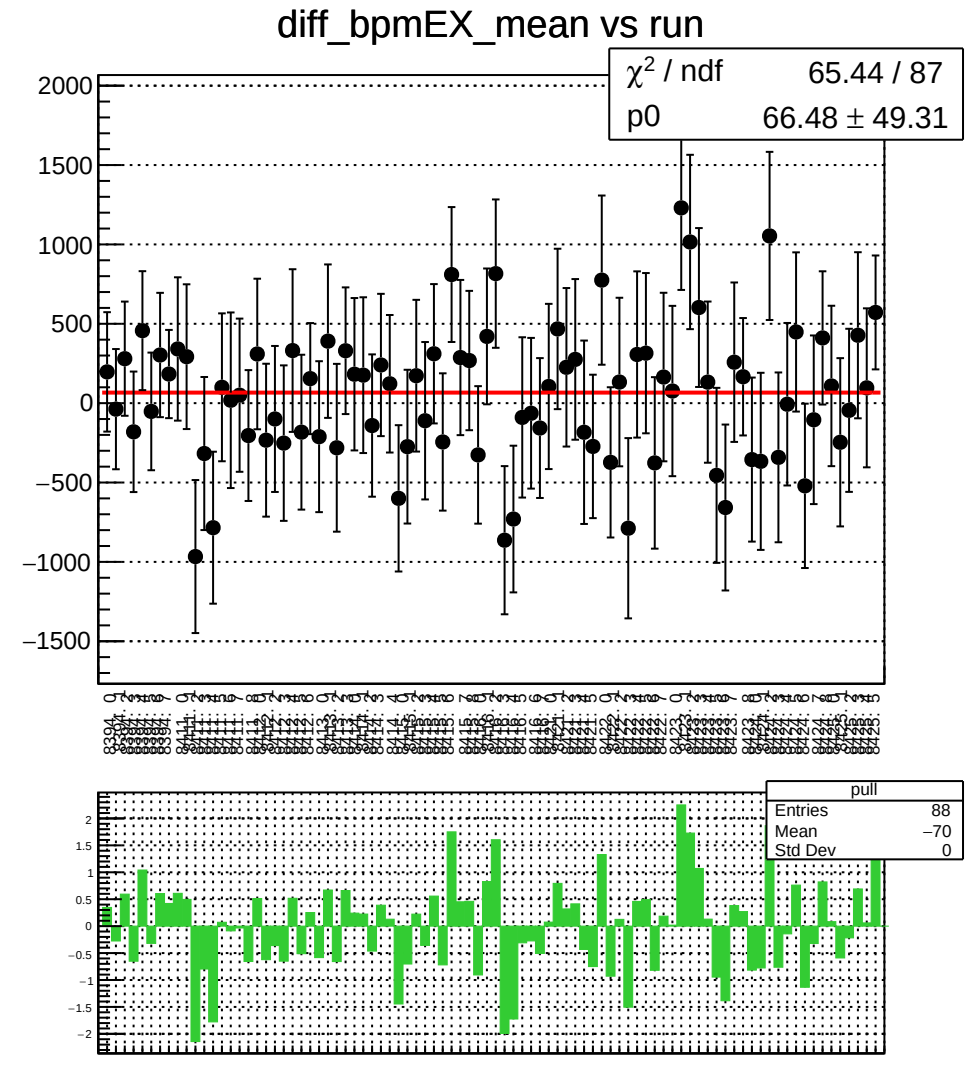

pull1D
Entries 88
Mean 0.003371
Std Dev 0.9859

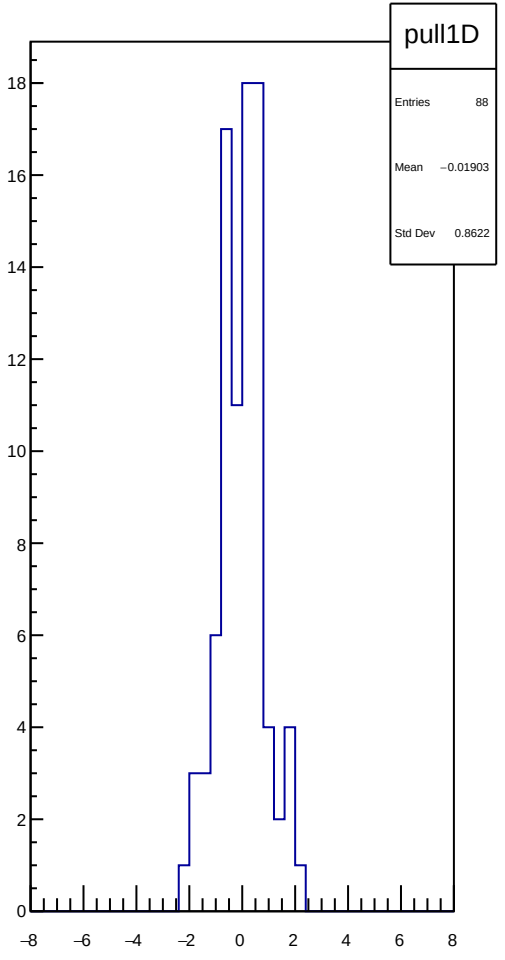

diff_targ_thetaY_rms vs run
χ² / ndf 466.2 / 87
p0 190.2 ± 0.1462
202
200
198
196
194
192
190
188
186
184
182

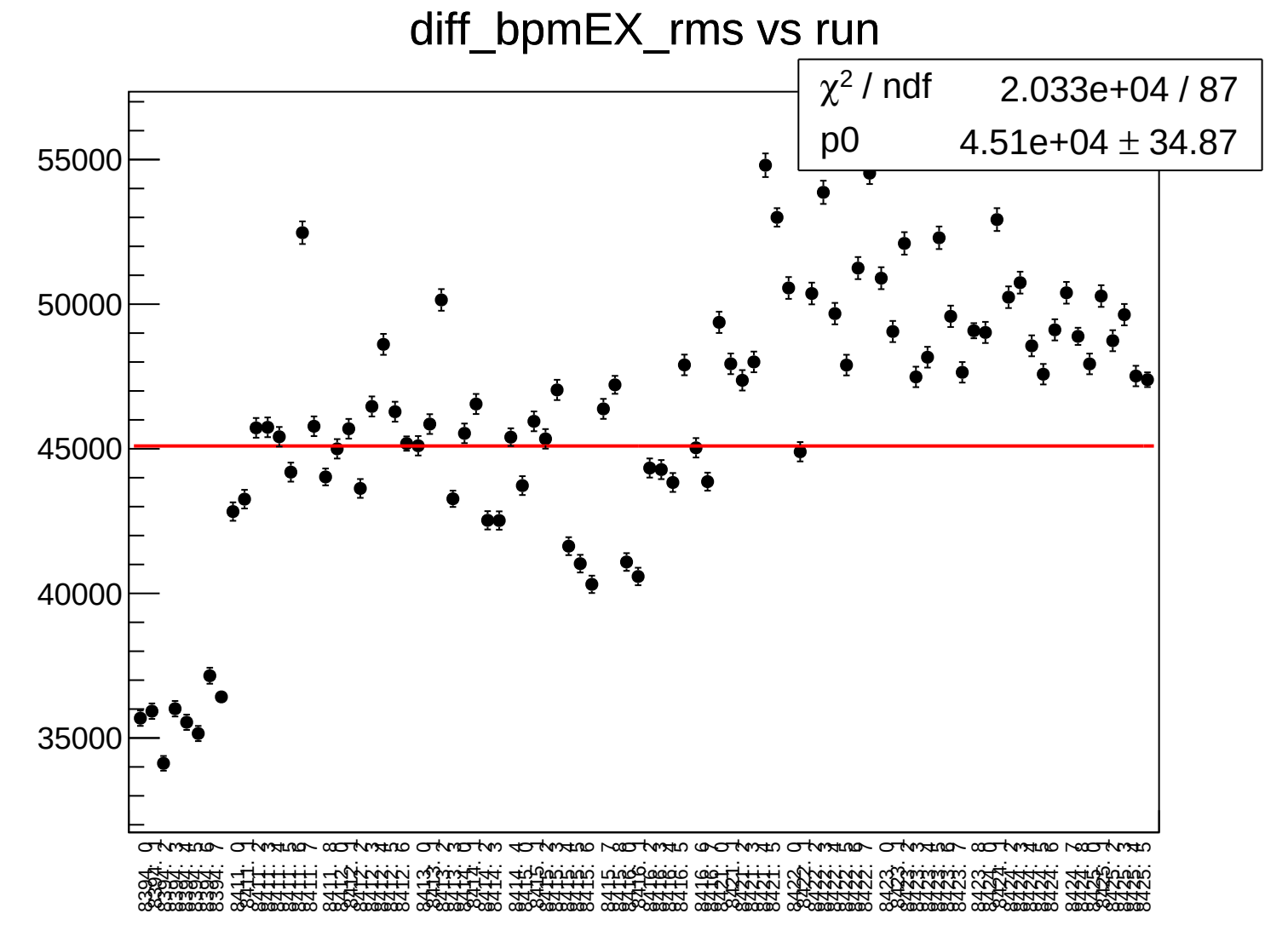

diff_bpmE_mean vs run
χ² / ndf 65.44 / 87
p0 66.48 ± 49.31
pull
Entries 88
Mean −70
Std Dev 0

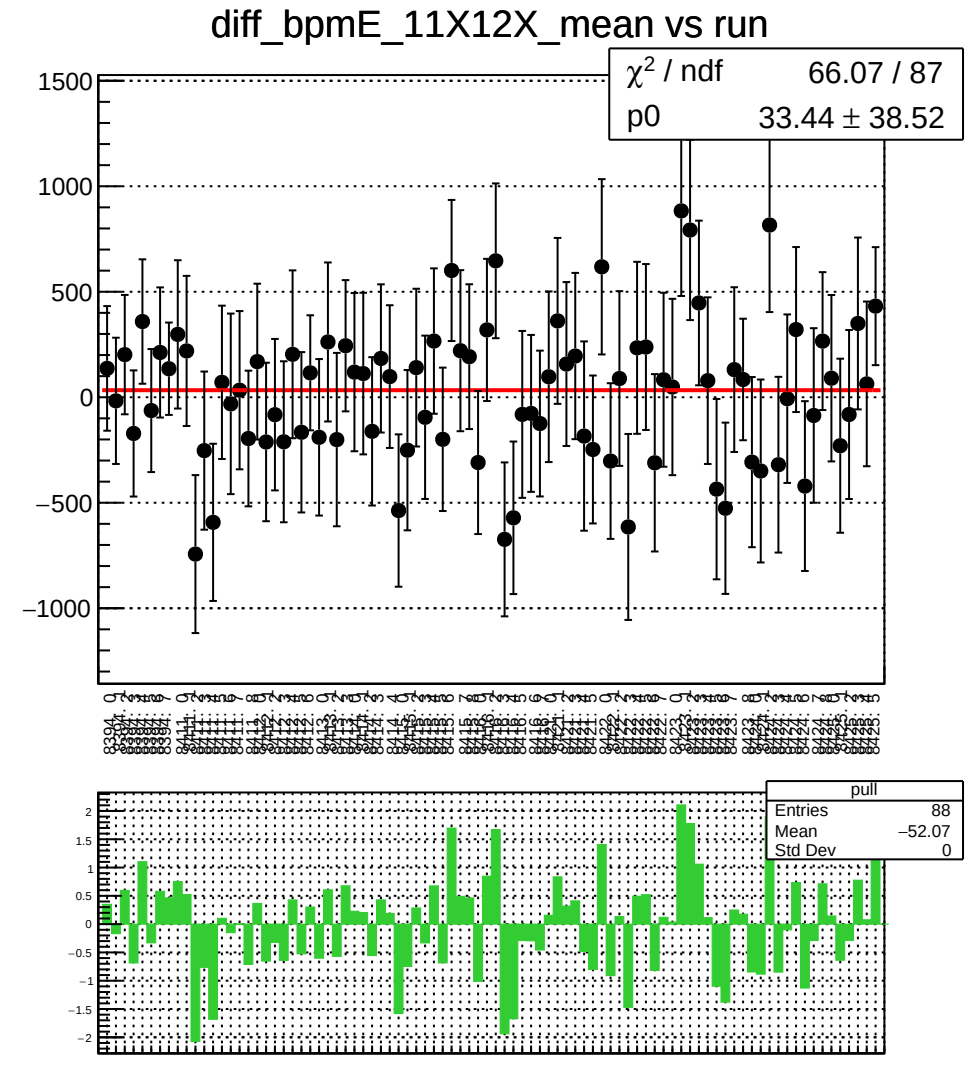

pull1D
Entries 88
Mean −0.01903
Std Dev 0.8622

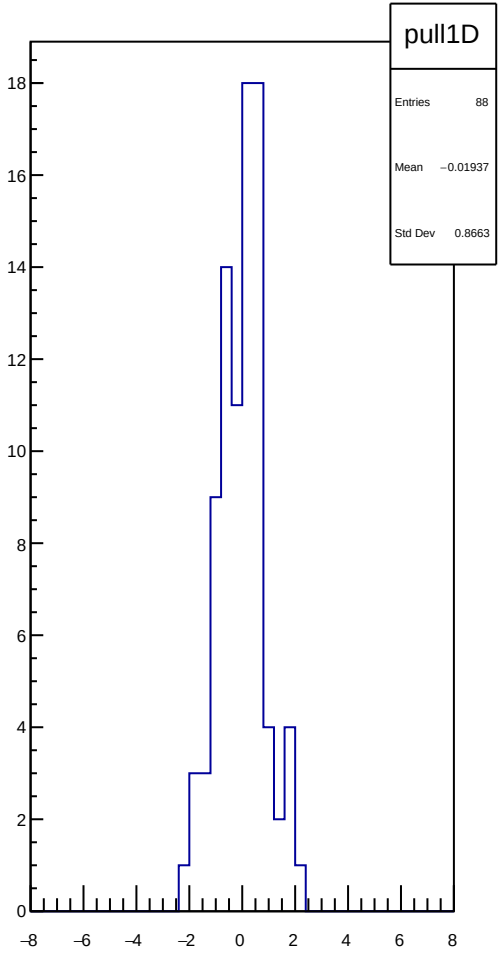

diff_bpmE_rms vs run
χ² / ndf 2.033e+04 / 87
p0 4.51e+04 ± 34.87
55000
50000
45000
40000
35000

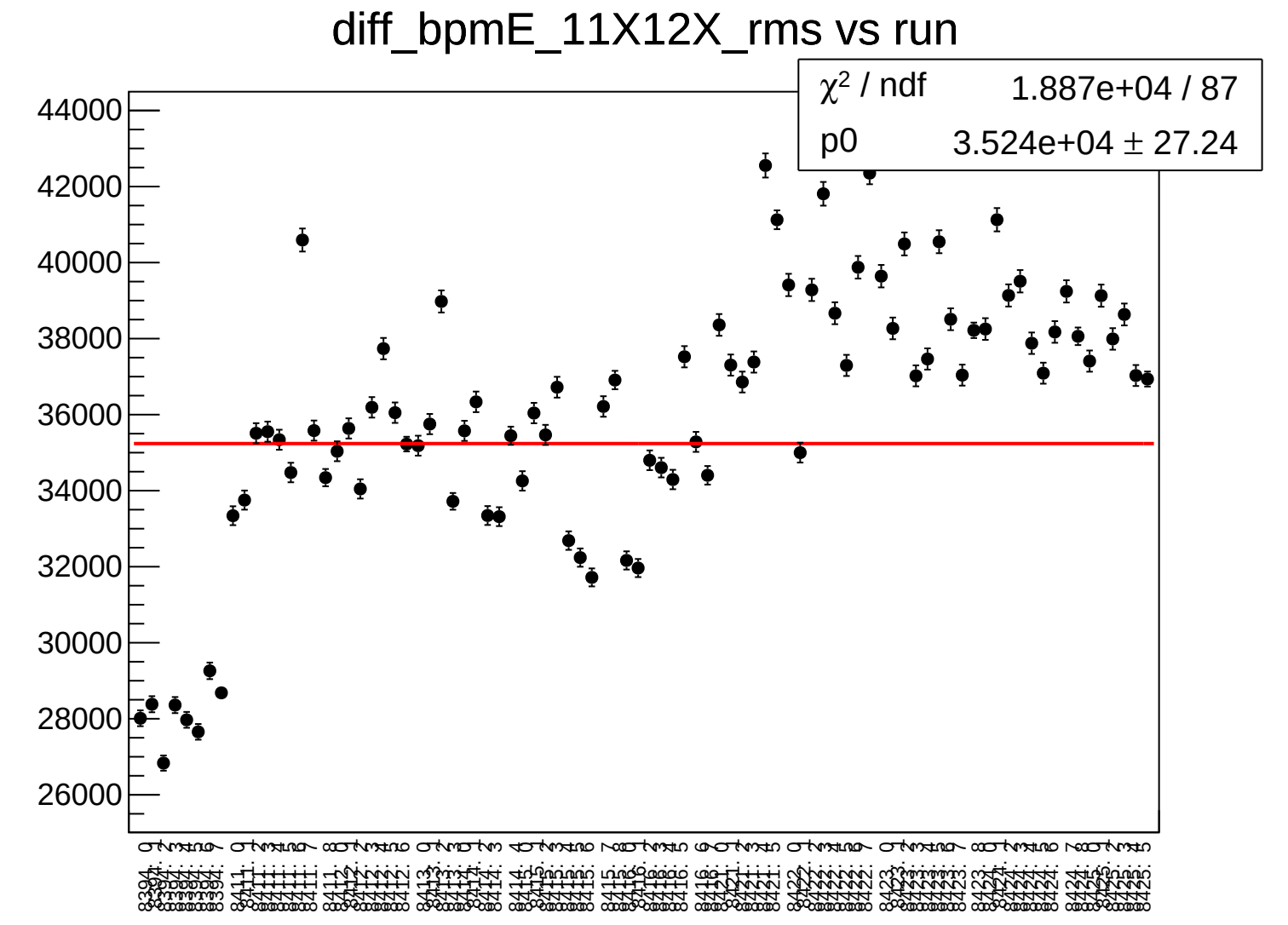

diff_bpmEX_mean vs run
χ² / ndf 65.44 / 87
p0 66.48 ± 49.31
2000
1500
1000
500
0
−500
−1000
−1500
pull
Entries 88
Mean −70
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

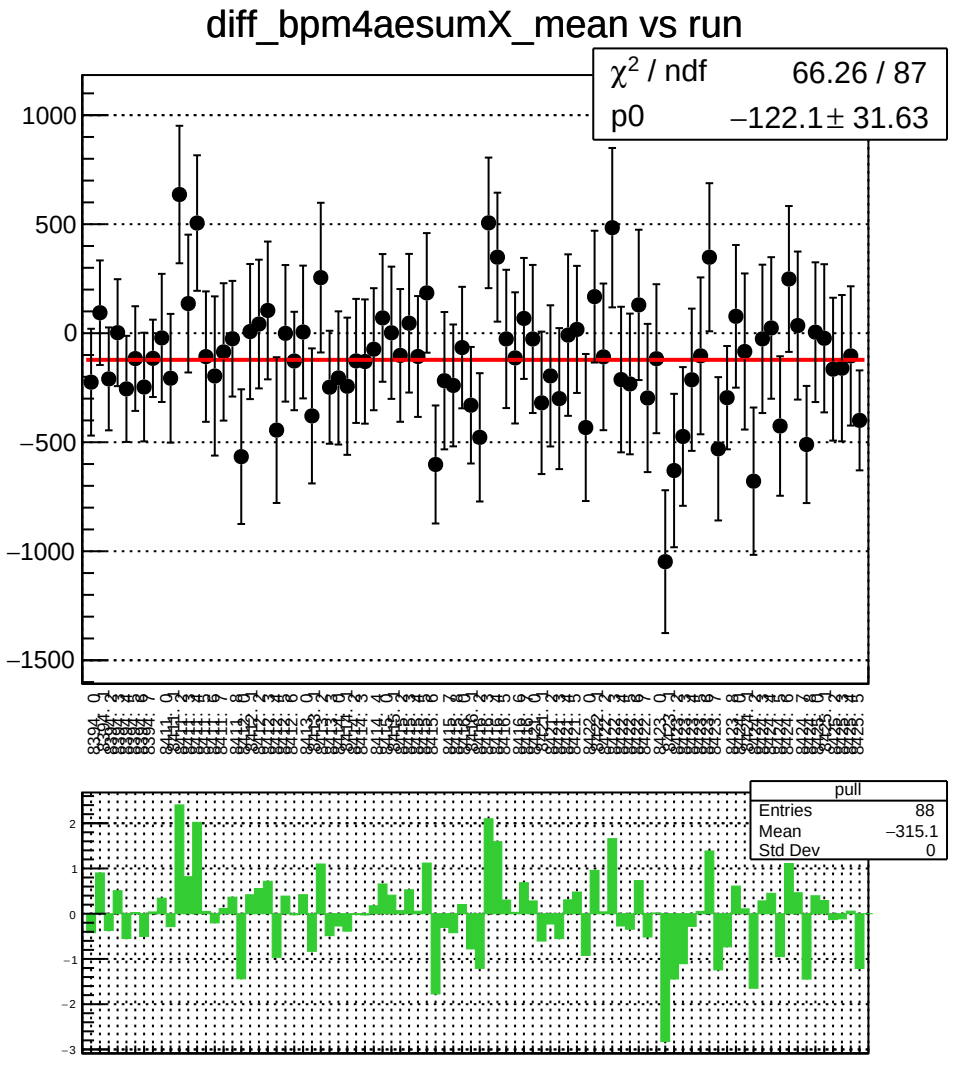

pull1D
Entries 88
Mean −0.01903
Std Dev 0.8622
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

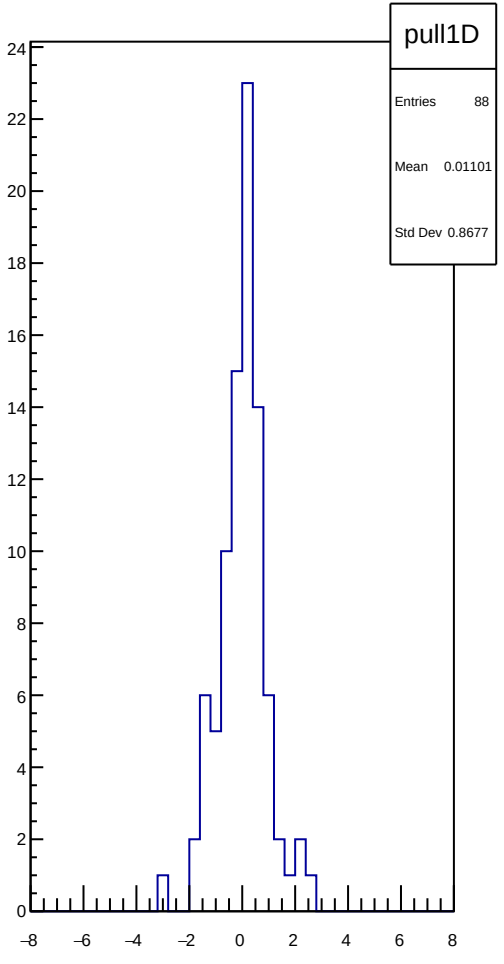

diff_bpmEX_rms vs run
χ² / ndf 2.033e+04 / 87
p0 4.51e+04 ± 34.87
55000
50000
45000
40000
35000

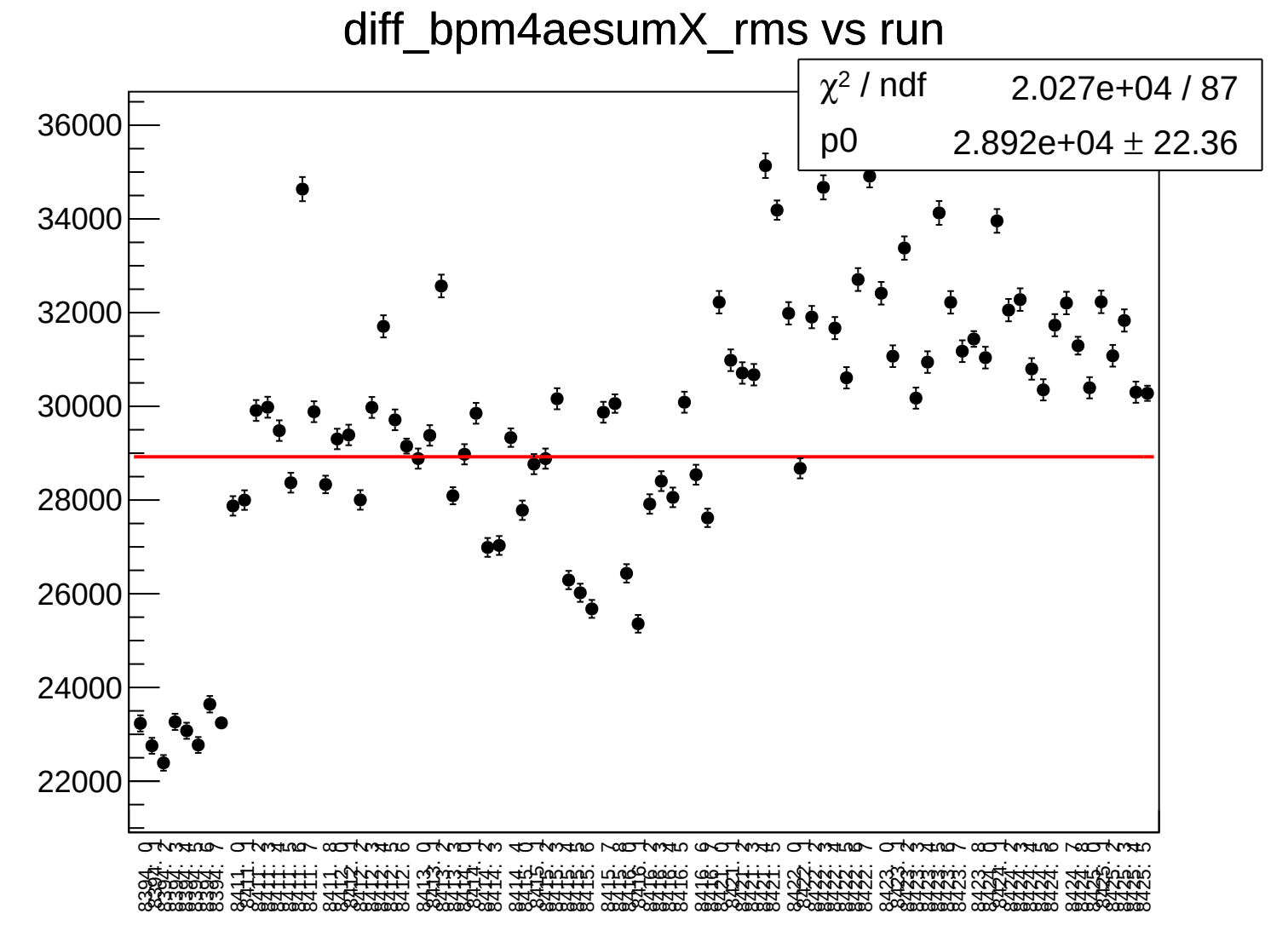

diff_bpmE_11X12X_mean vs run
χ^2 / ndf 66.07 / 87
p0 33.44 ± 38.52
1500
1000
500
0
−500
−1000
pull
Entries 88
Mean −52.07
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

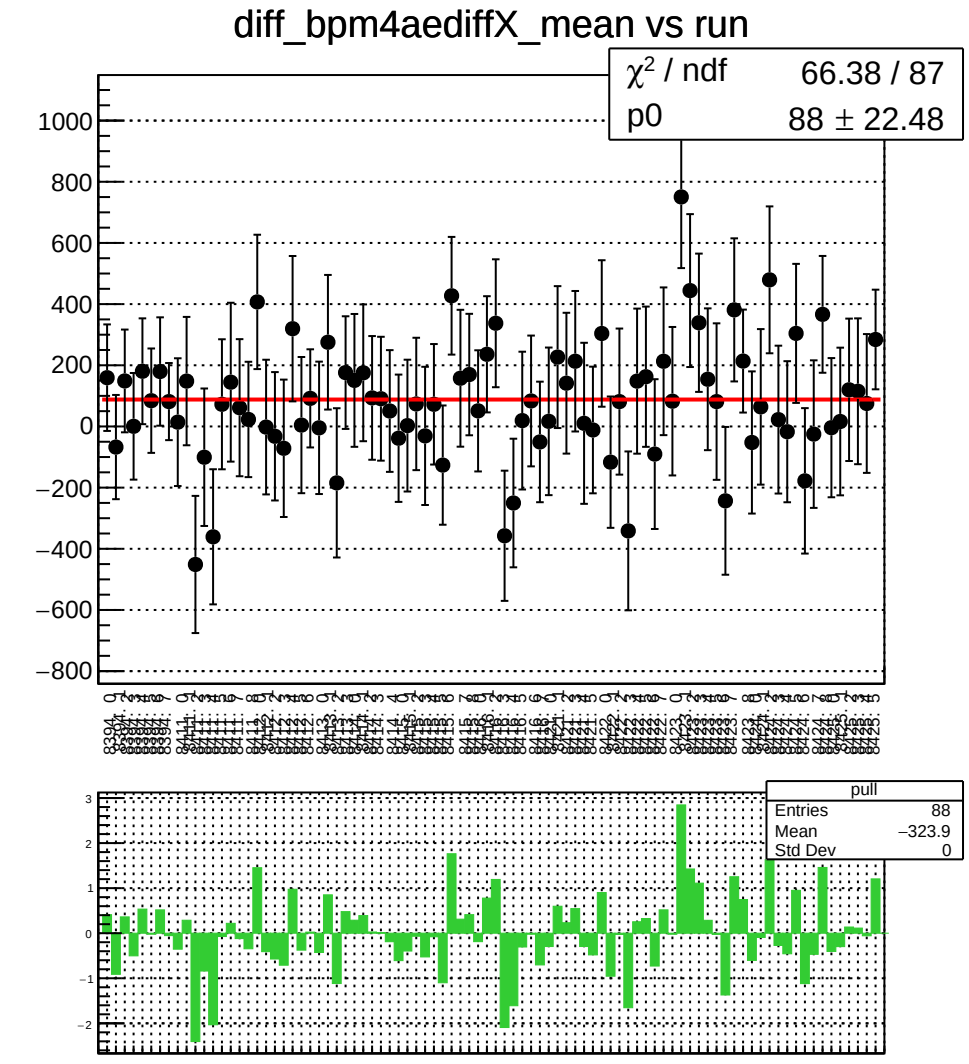

pull1D
Entries 88
Mean −0.01937
Std Dev 0.8663
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

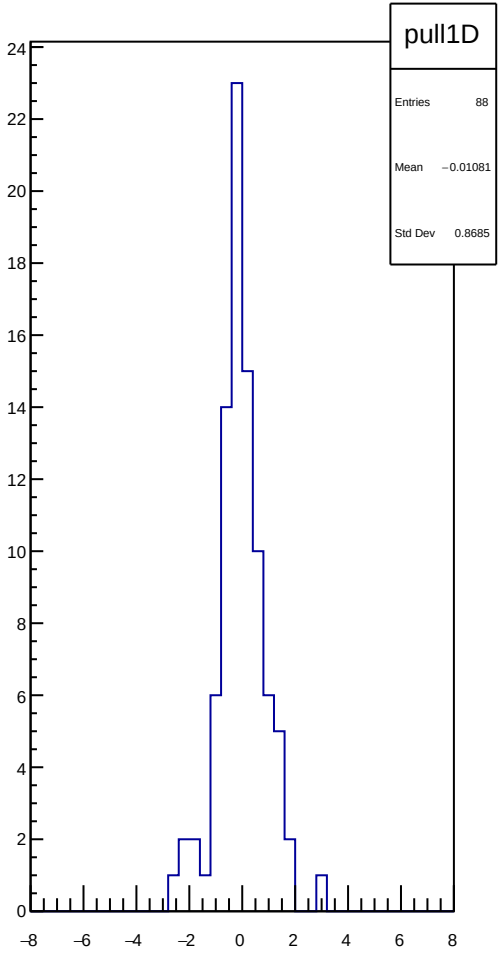

diff_bpmE_11X12X_rms vs run
χ² / ndf 1.887e+04 / 87
p0 3.524e+04 ± 27.24
44000
42000
40000
38000
36000
34000
32000
30000
28000
26000

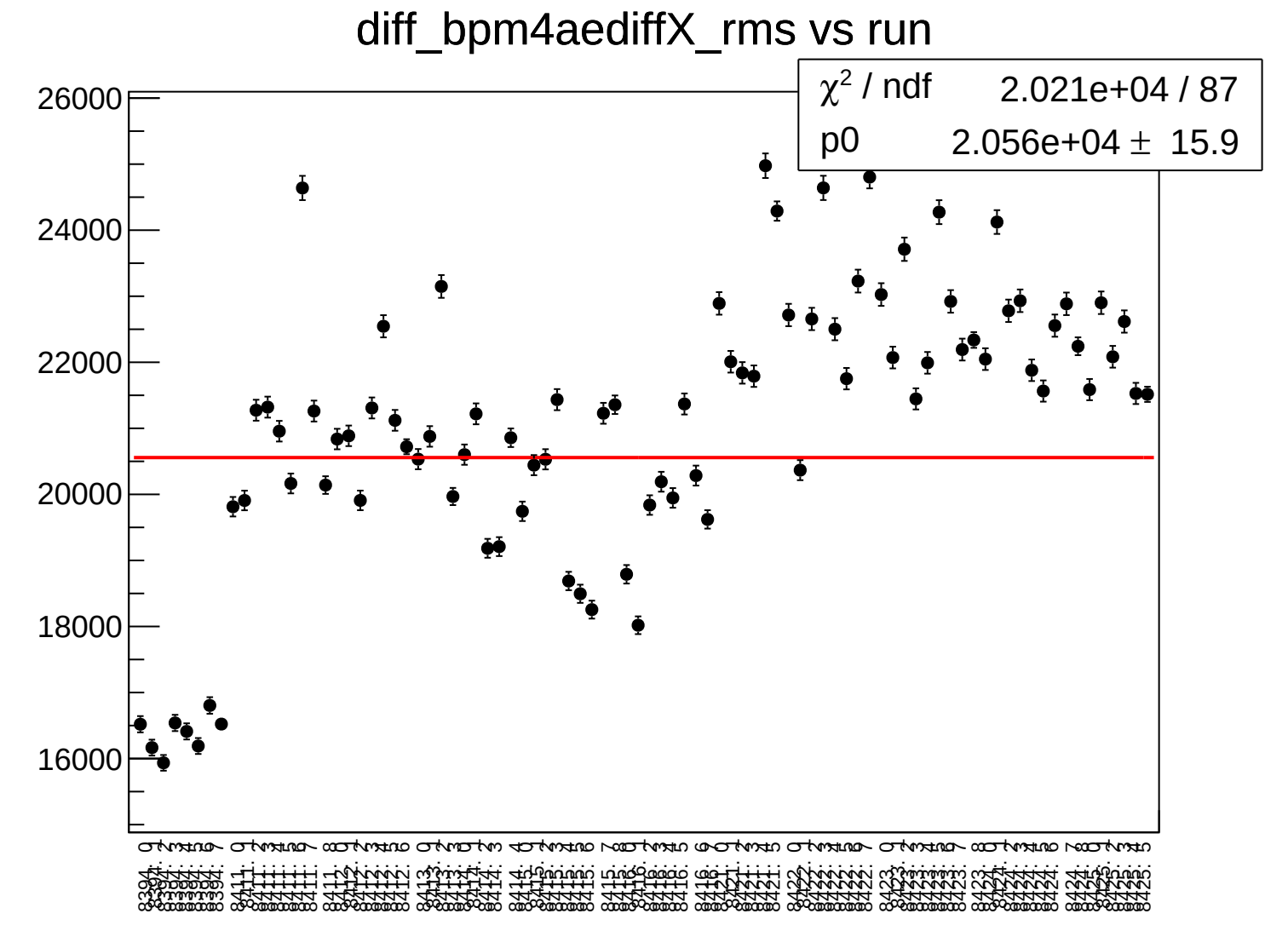

diff_bpm4aesumX_mean vs run
χ² / ndf 66.26 / 87
p0 −122.1± 31.63
pull
Entries 88
Mean −315.1
Std Dev 0

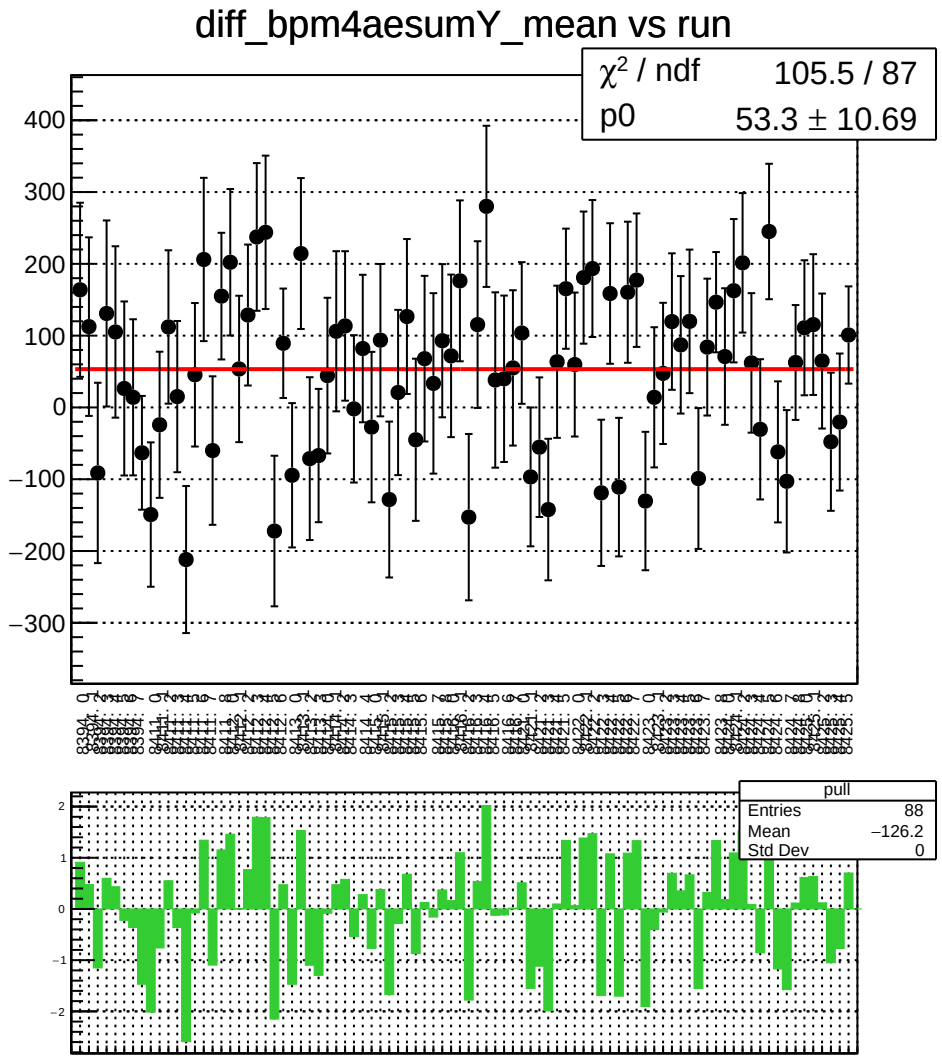

pull1D
Entries 88
Mean 0.01101
Std Dev 0.8677

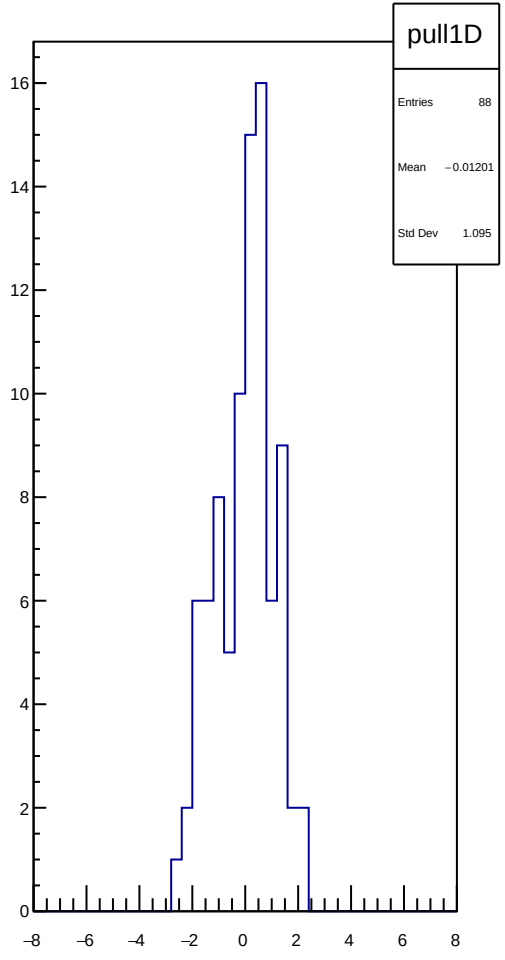

diff_bpm4aesumX_rms vs run
χ² / ndf 2.027e+04 / 87
p0 2.892e+04 ± 22.36
36000
34000
32000
30000
28000
26000
24000
22000


diff_bpm4aediffX_mean vs run
χ² / ndf 66.38 / 87
p0 88 ± 22.48
pull
Entries 88
Mean −323.9
Std Dev 0

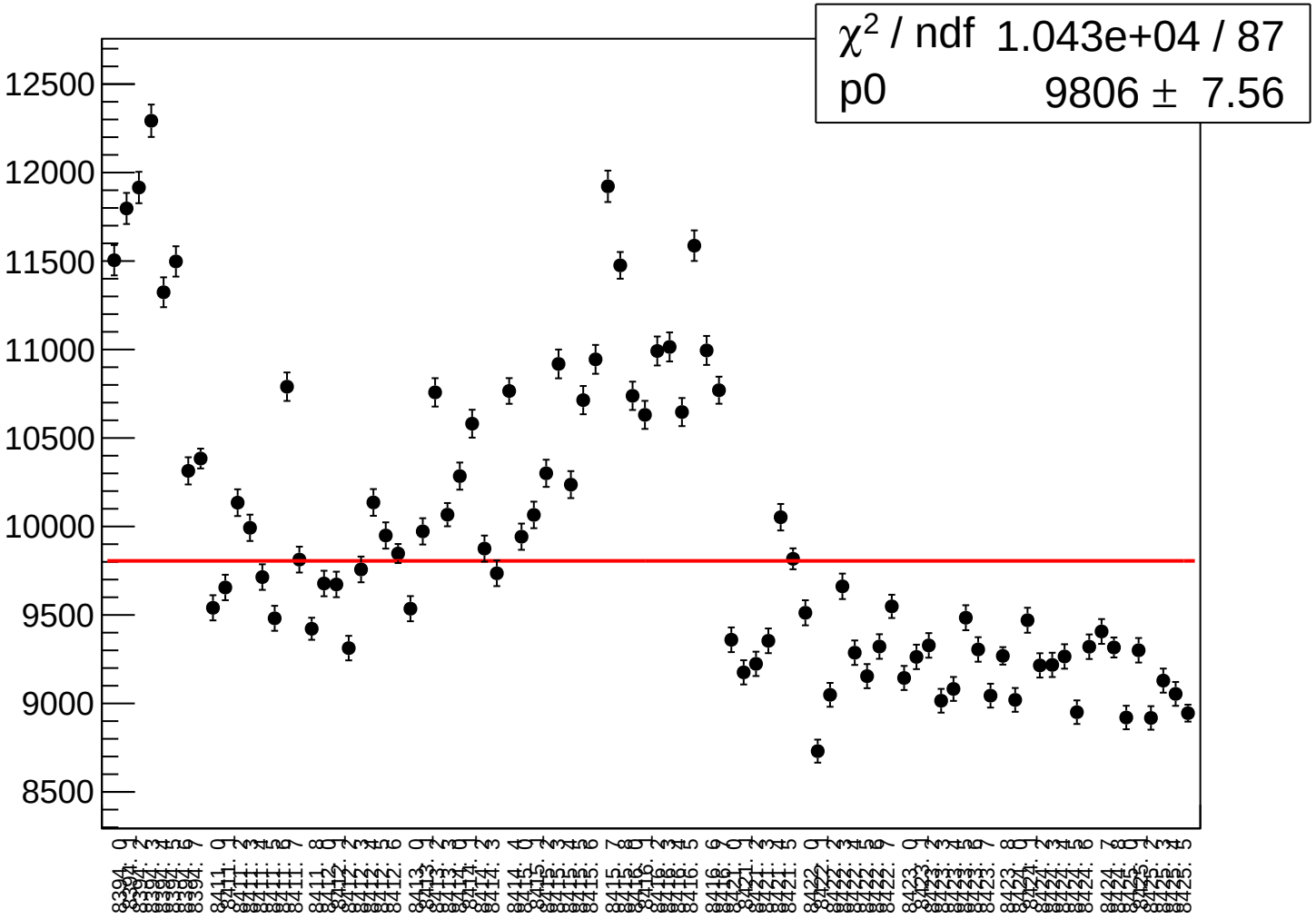

pull1D
Entries 88
Mean −0.01081
Std Dev 0.8685

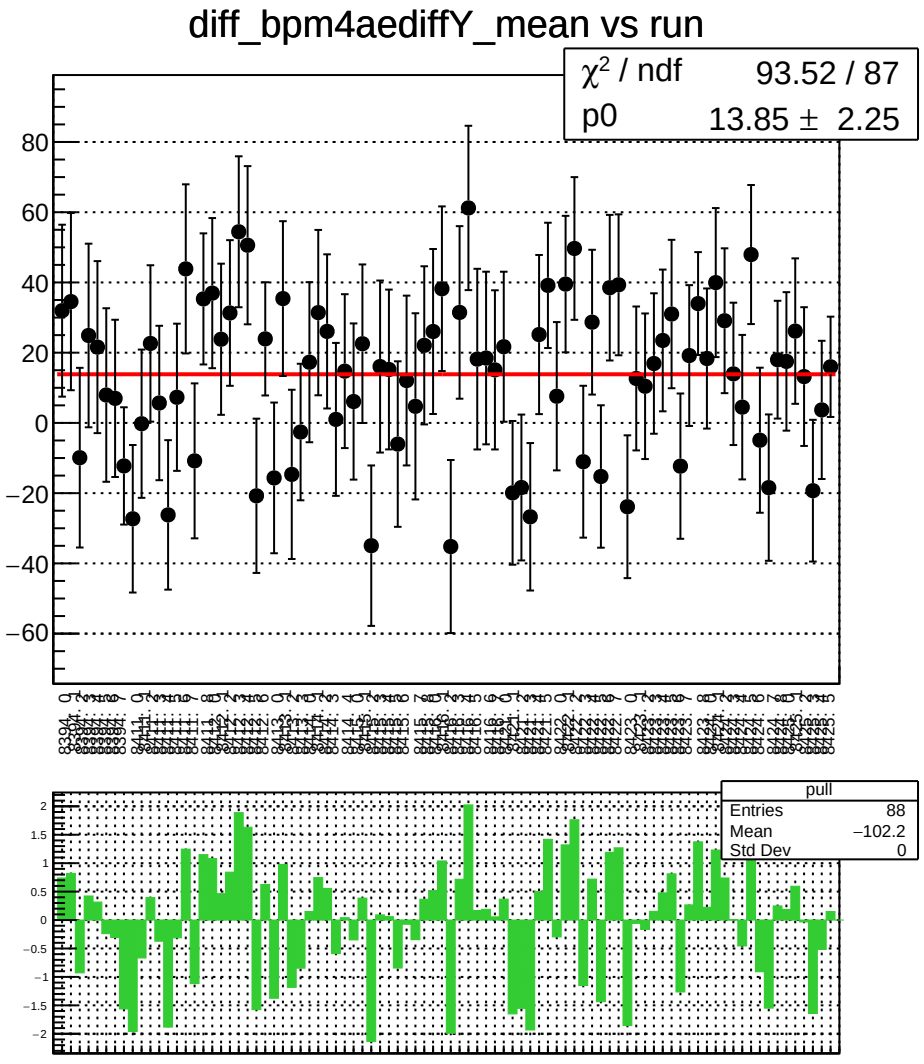

diff_bpm4aediffX_rms vs run
χ² / ndf 2.021e+04 / 87
p0 2.056e+04 ± 15.9
26000
24000
22000
20000
18000
16000

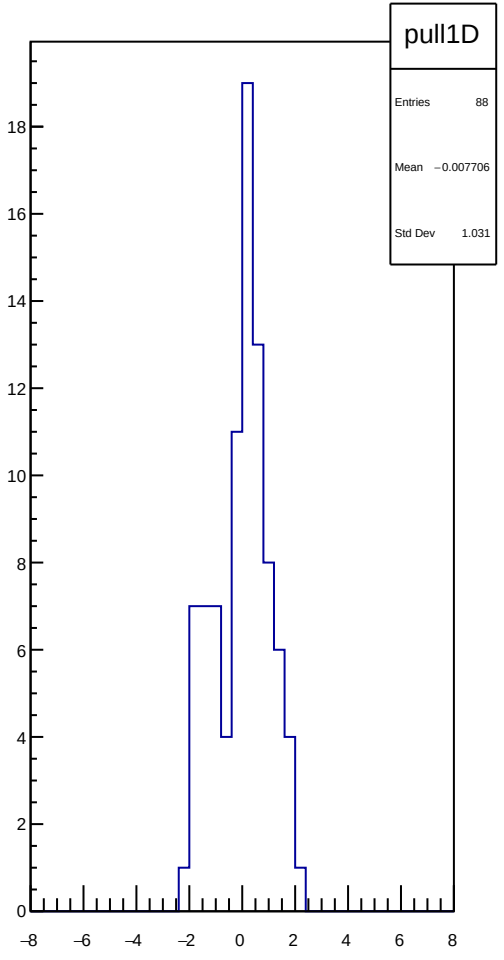

diff_bpm4aesumY_mean vs run
χ² / ndf 105.5 / 87
p0 53.3 ± 10.69
400
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −126.2
Std Dev 0
2
1
0
−1
−2

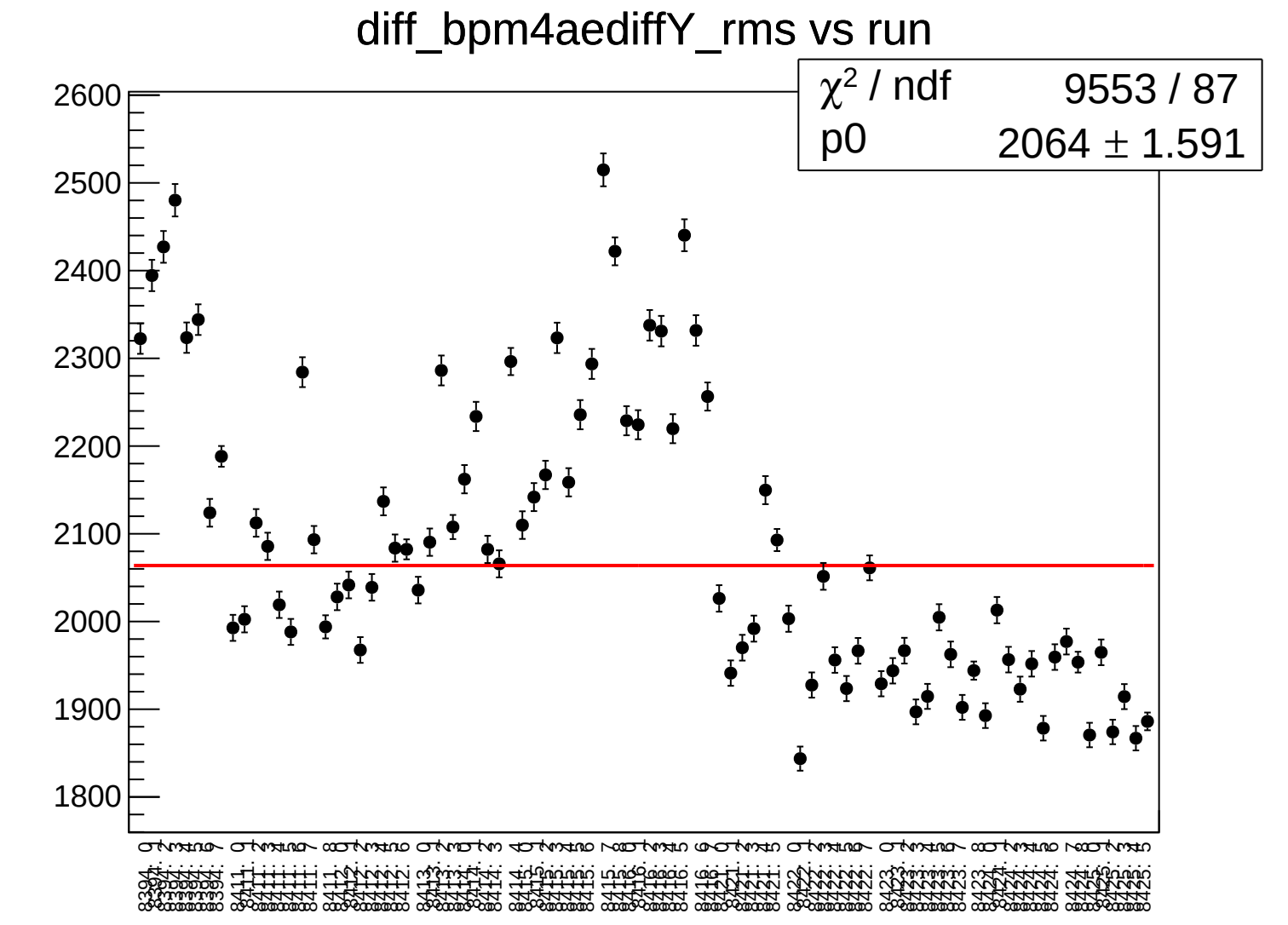

pull1D
Entries 88
Mean −0.01201
Std Dev 1.095
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

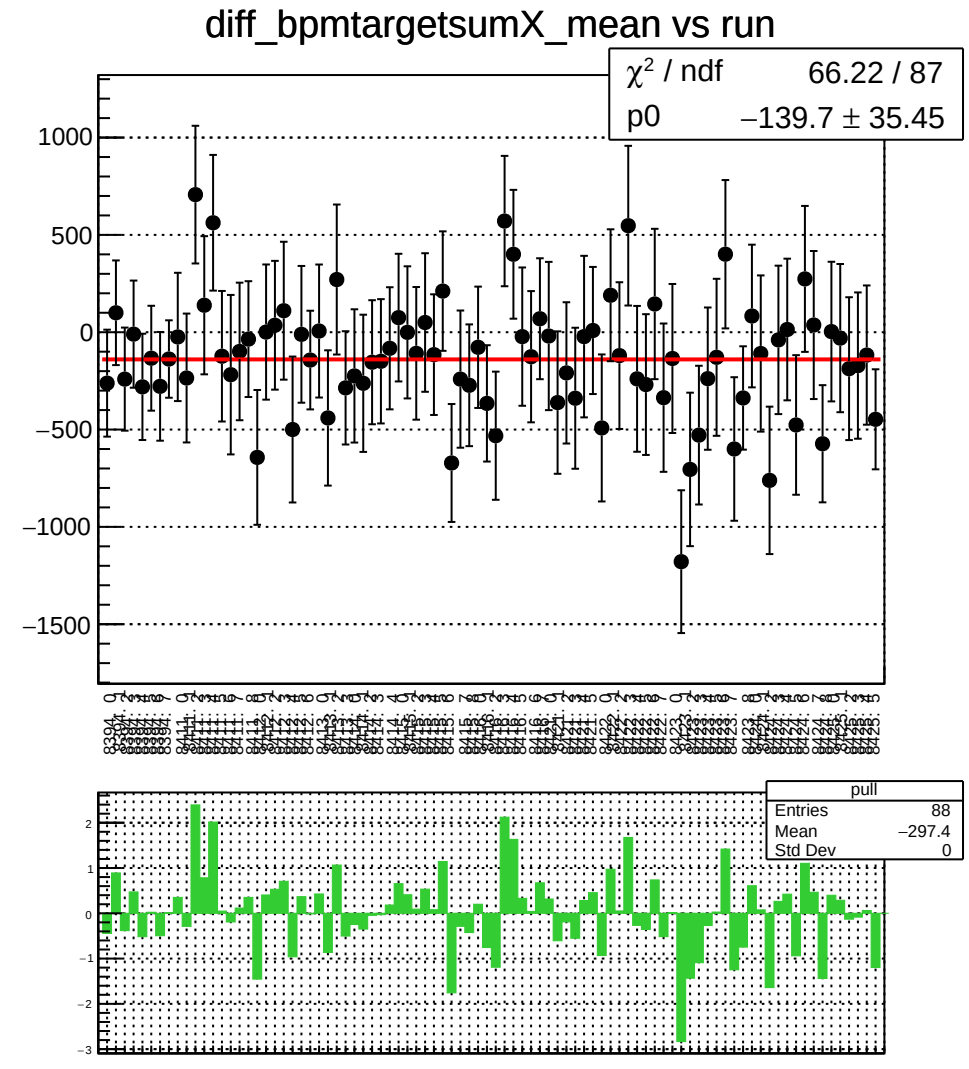
diff_bpm4aesumY_rms vs run

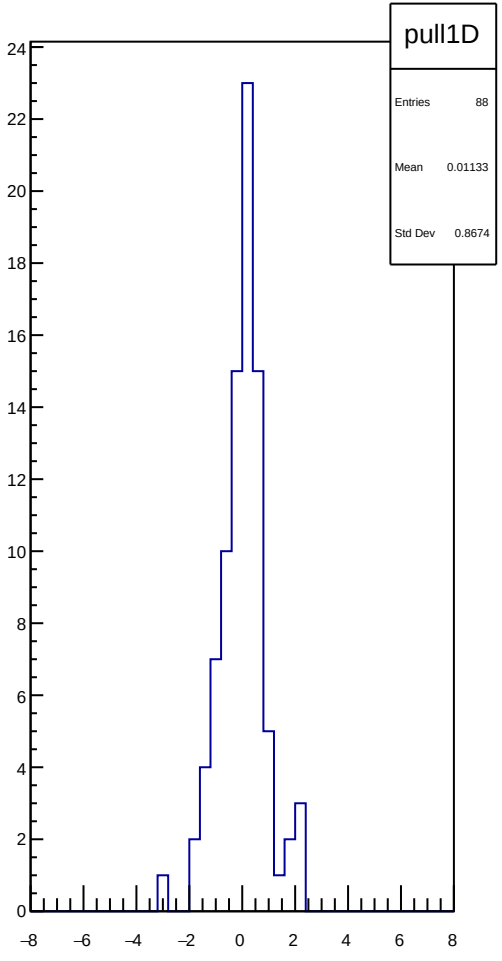


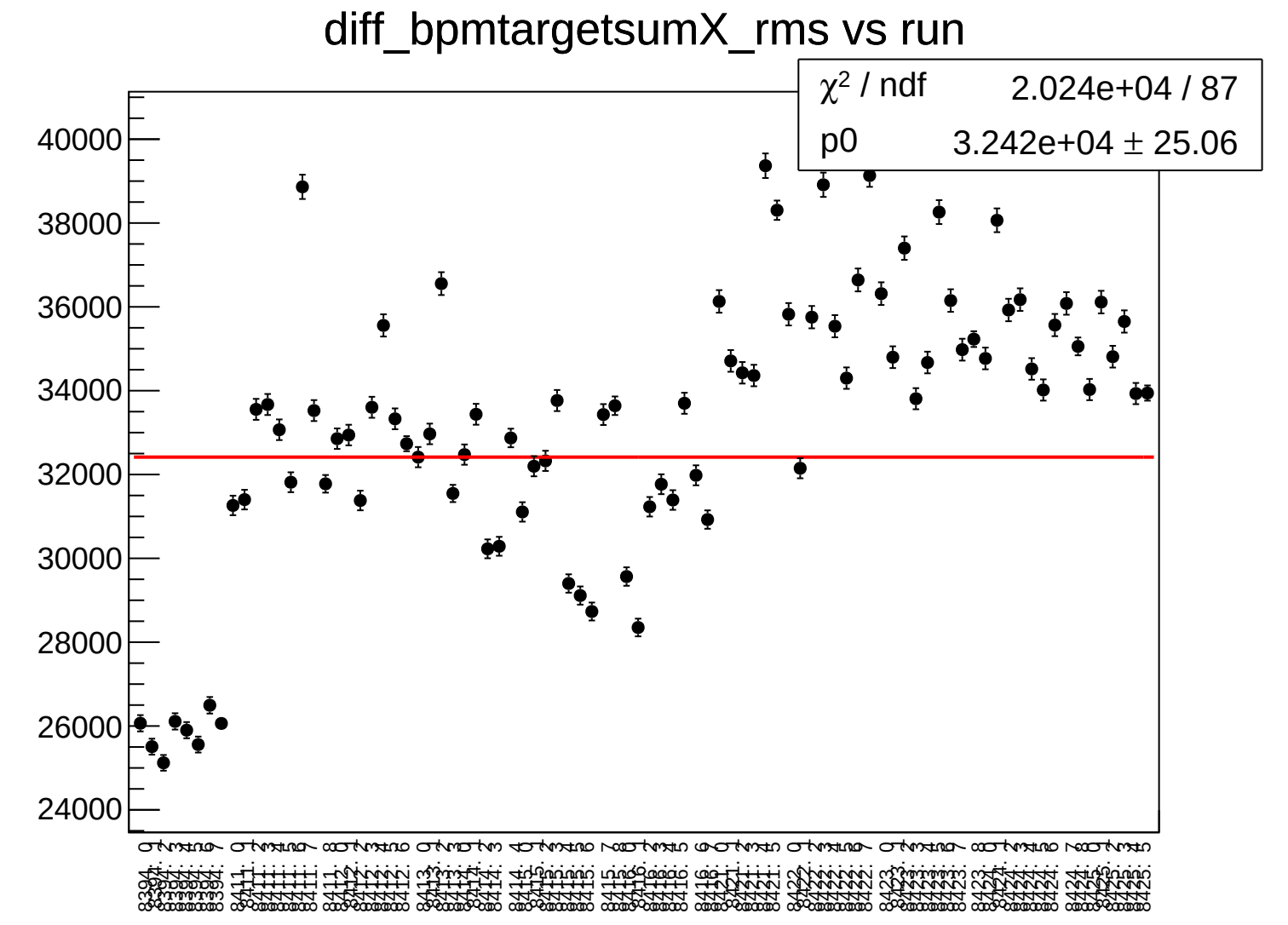

diff_bpm4aediffY_mean vs run
χ^2 / ndf 93.52 / 87
p0 13.85 ± 2.25
pull
Entries 88
Mean −102.2
Std Dev 0

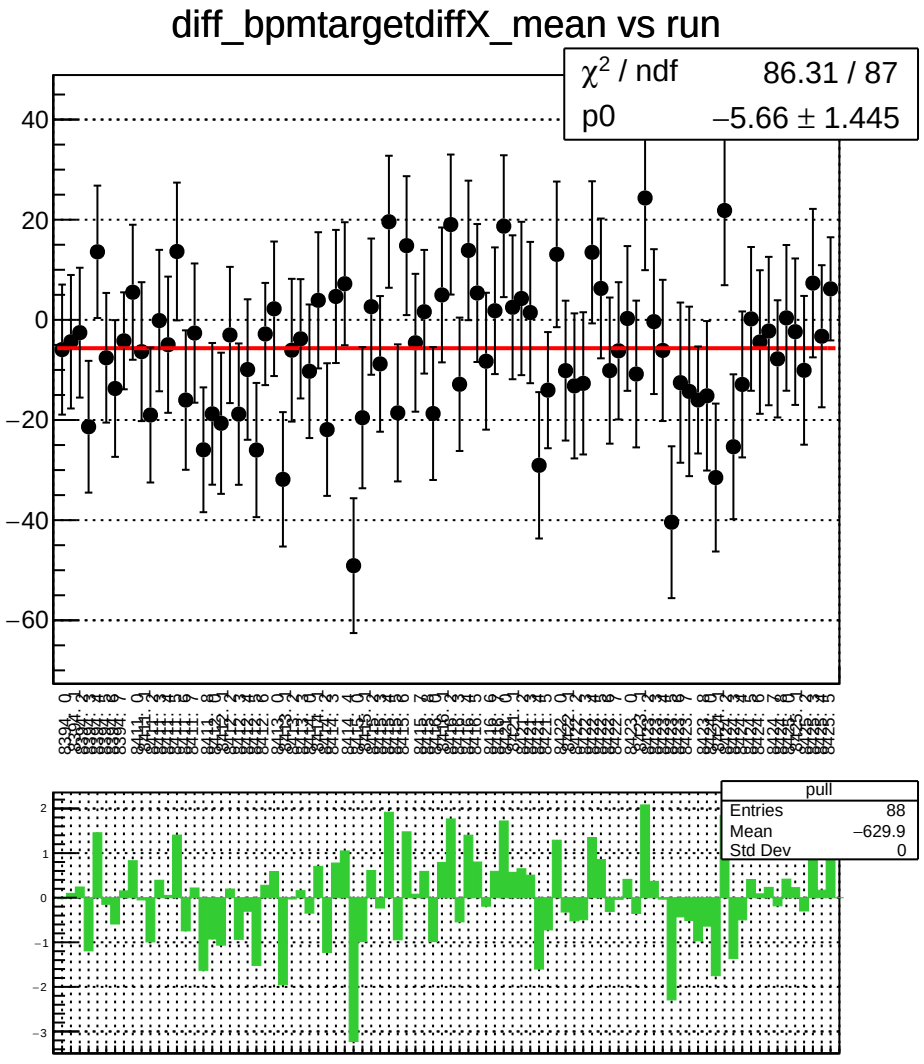

pull1D
Entries 88
Mean −0.007706
Std Dev 1.031

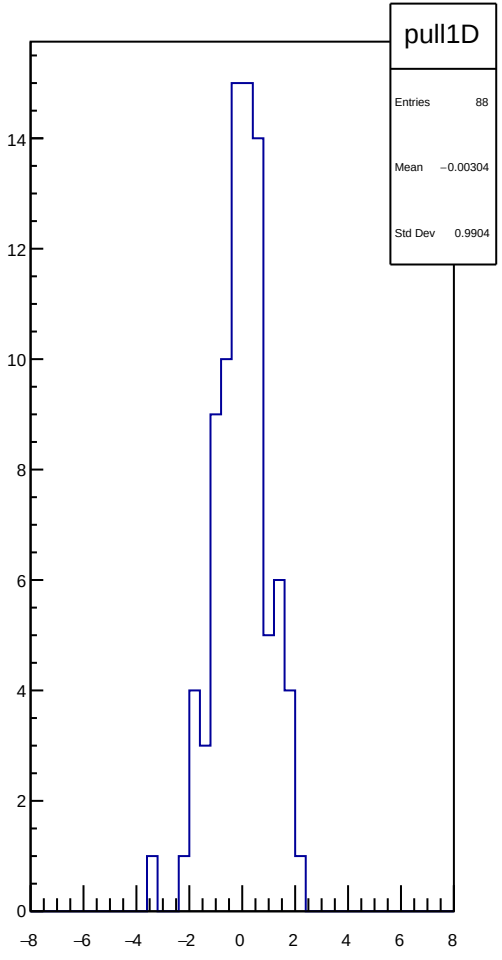

diff_bpm4aediffY_rms vs run
χ² / ndf 9553 / 87
p0 2064 ± 1.591
2600
2500
2400
2300
2200
2100
2000
1900
1800

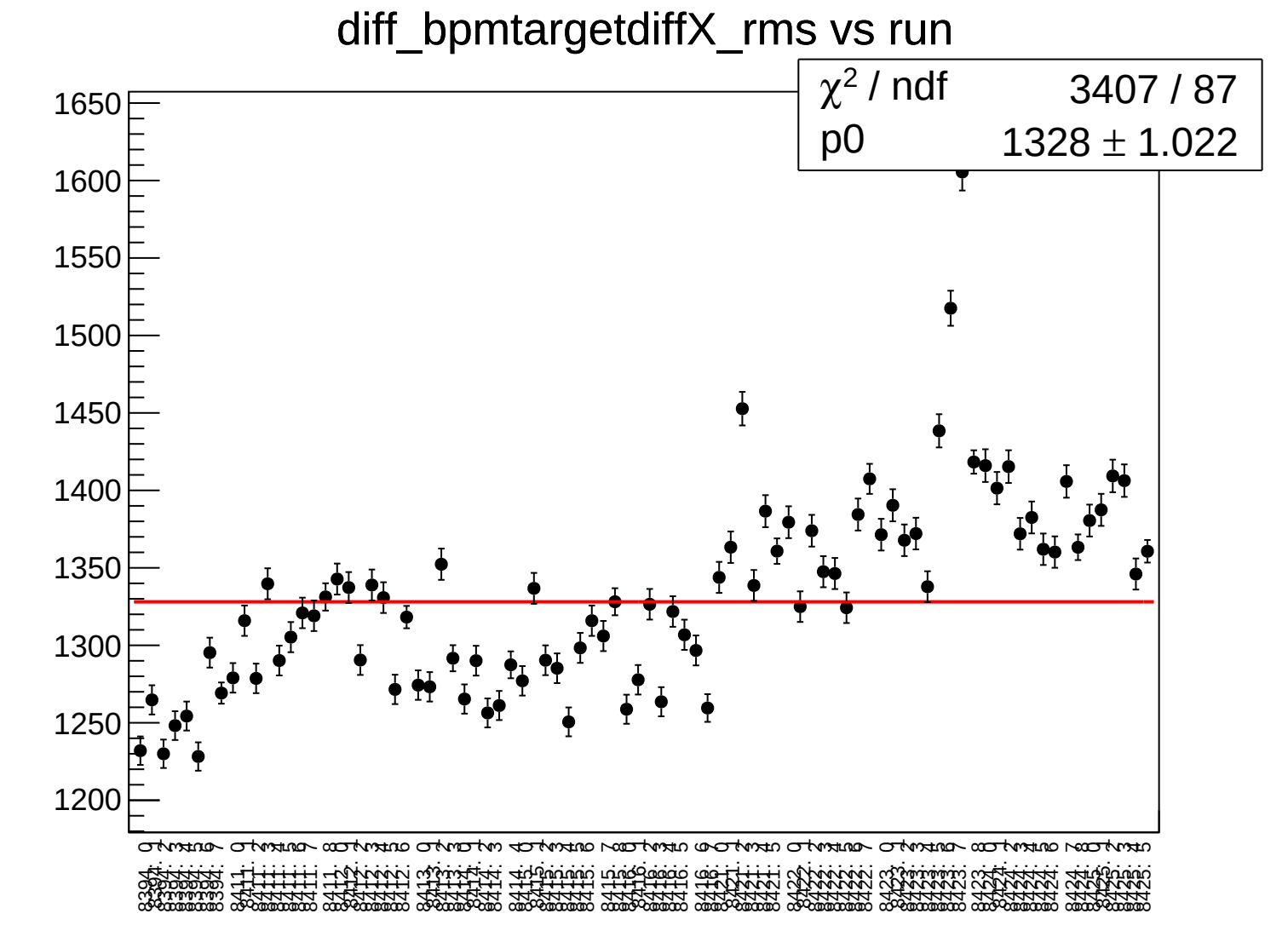

diff_bpmtargetsumX_mean vs run
χ² / ndf 66.22 / 87
p0 −139.7 ± 35.45
1000
500
0
−500
−1000
−1500
pull
Entries 88
Mean −297.4
Std Dev 0
2
1
0
−1
−2
−3

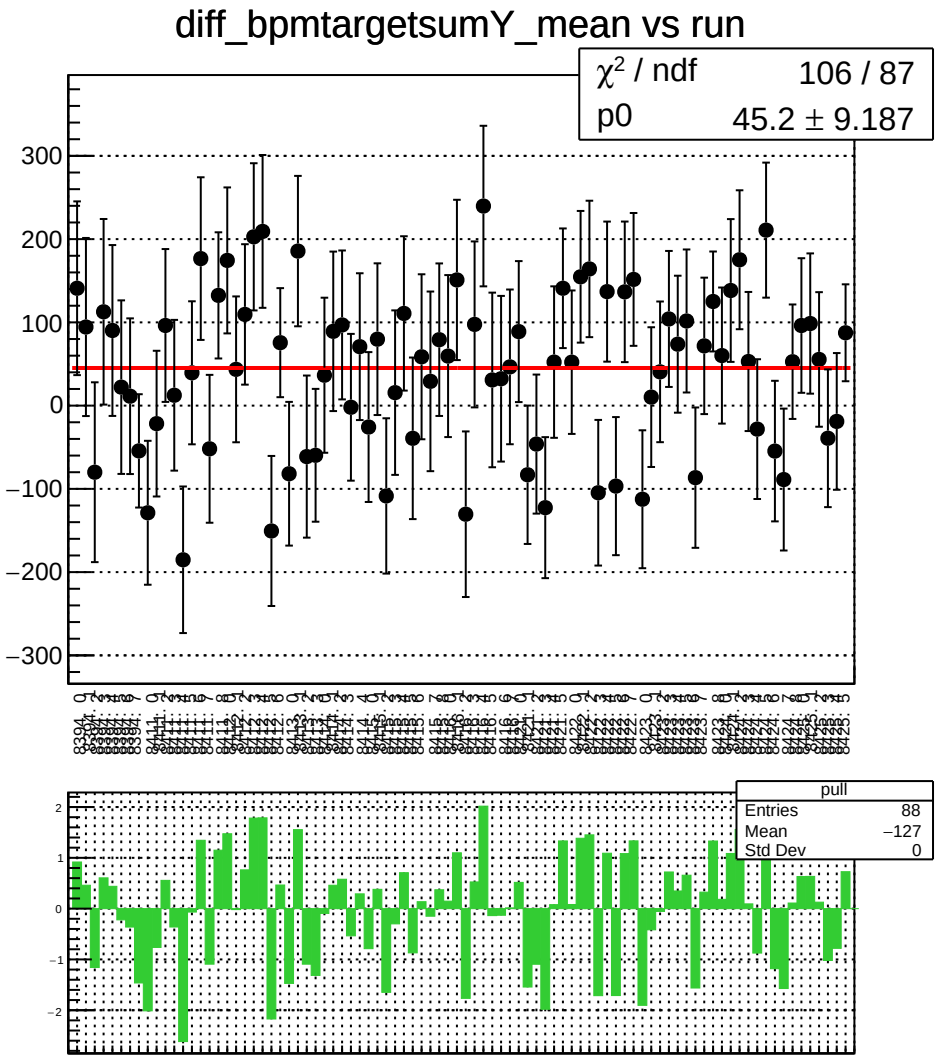

pull1D
Entries 88
Mean 0.01133
Std Dev 0.8674
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

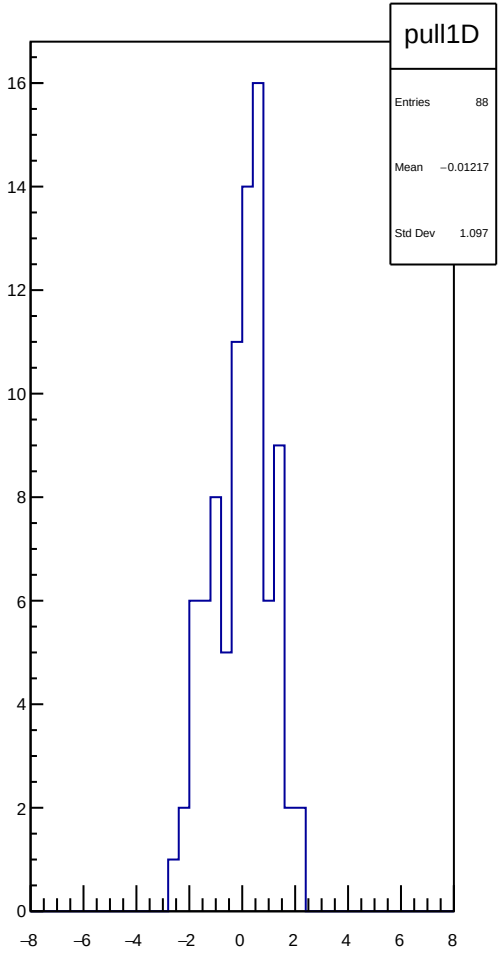

diff_bpmtargetsumX_rms vs run
χ² / ndf 2.024e+04 / 87
p0 3.242e+04 ± 25.06
40000
38000
36000
34000
32000
30000
28000
26000
24000

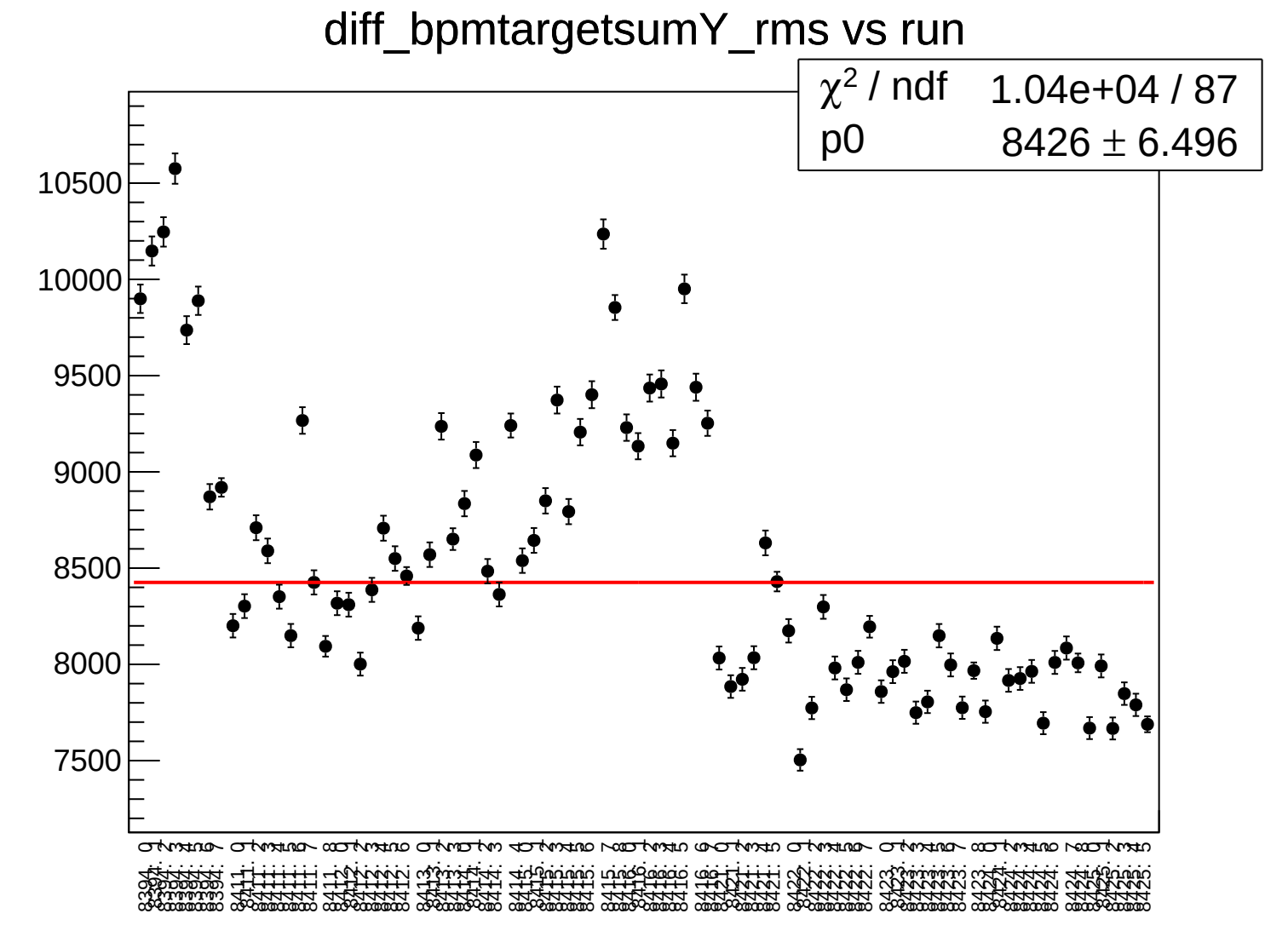

diff_bpmtargetdiffX_mean vs run
χ² / ndf 86.31 / 87
p0 −5.66 ± 1.445
pull
Entries 88
Mean −629.9
Std Dev 0

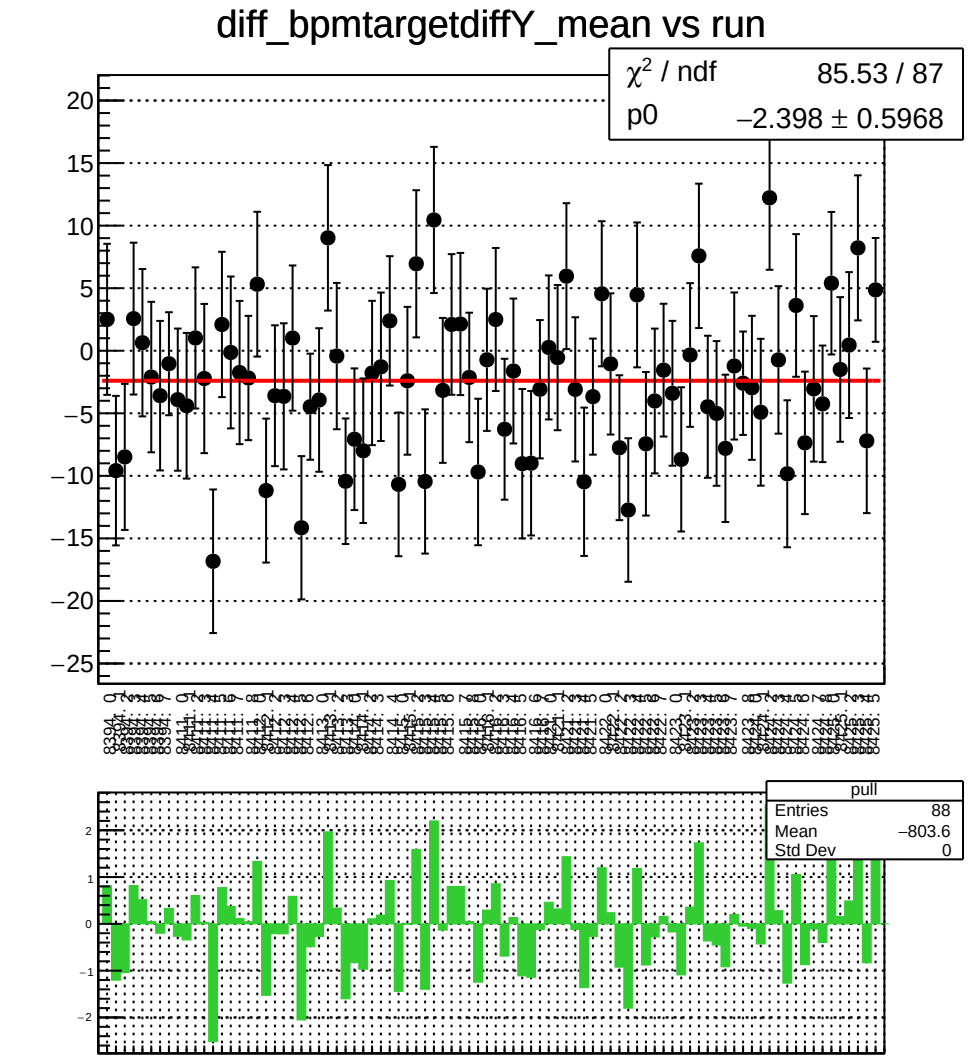

pull1D
Entries 88
Mean −0.00304
Std Dev 0.9904

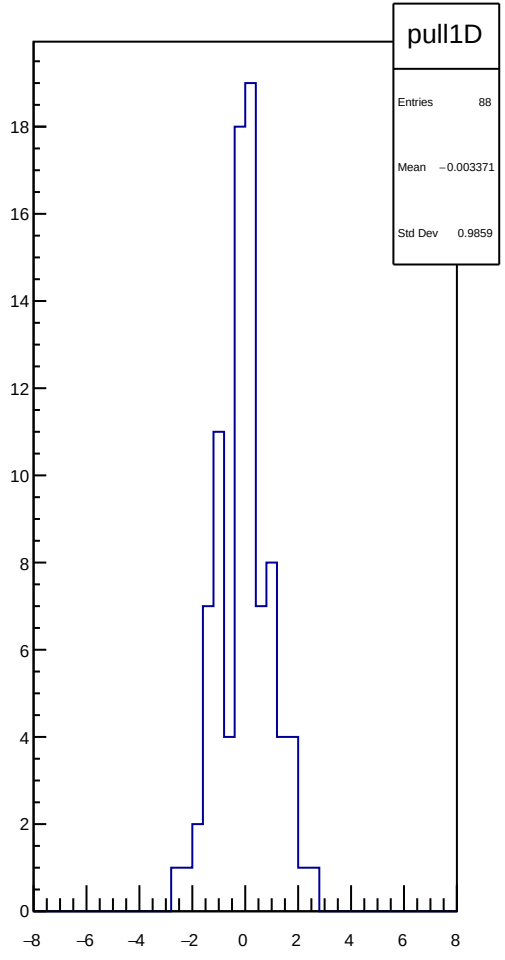

diff_bpmtargetdiffX_rms vs run
χ² / ndf 3407 / 87
p0 1328 ± 1.022
1650
1600
1550
1500
1450
1400
1350
1300
1250
1200

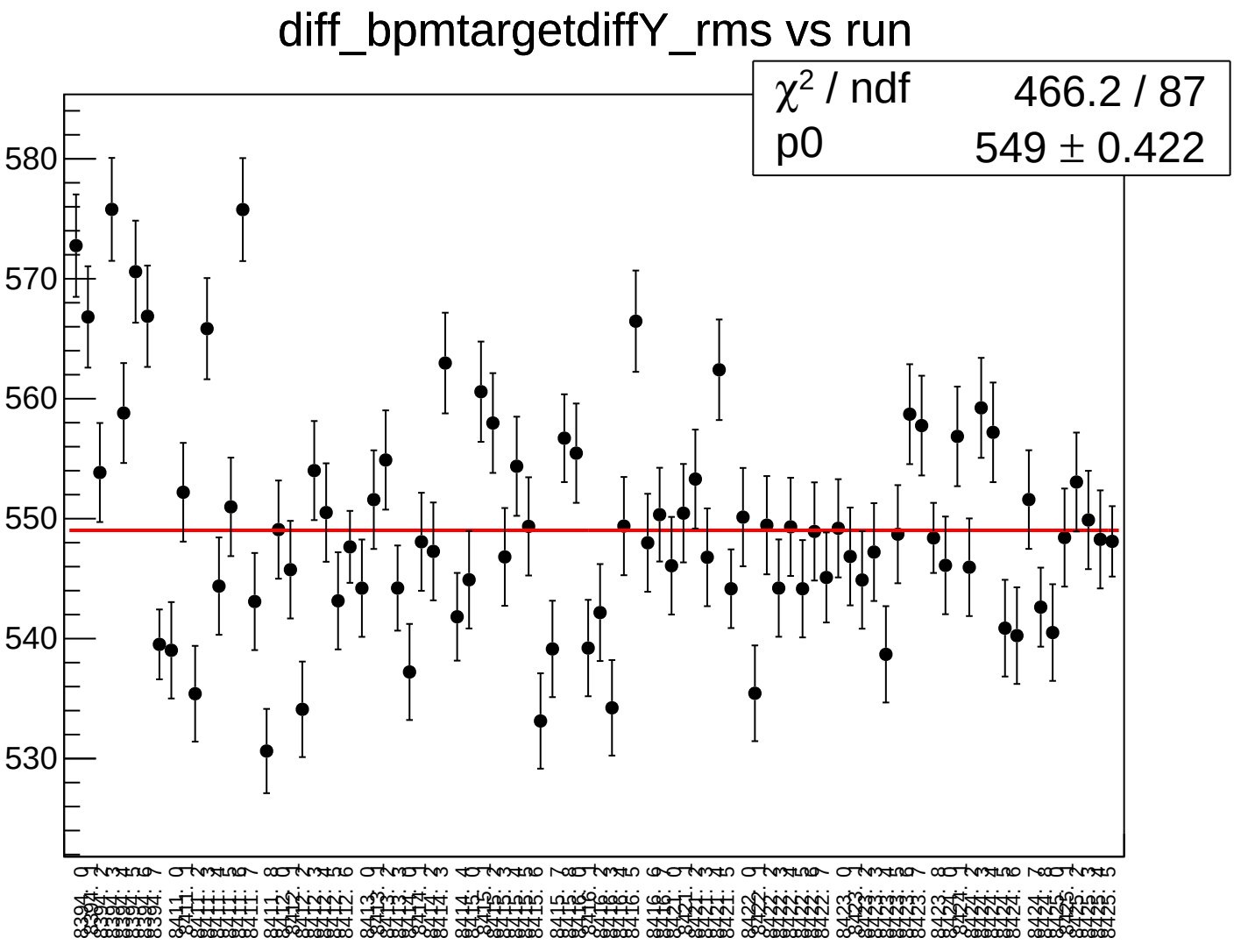

diff_bpmtargetsumY_mean vs run
χ² / ndf 106 / 87
p0 45.2 ± 9.187
pull
Entries 88
Mean −127
Std Dev 0

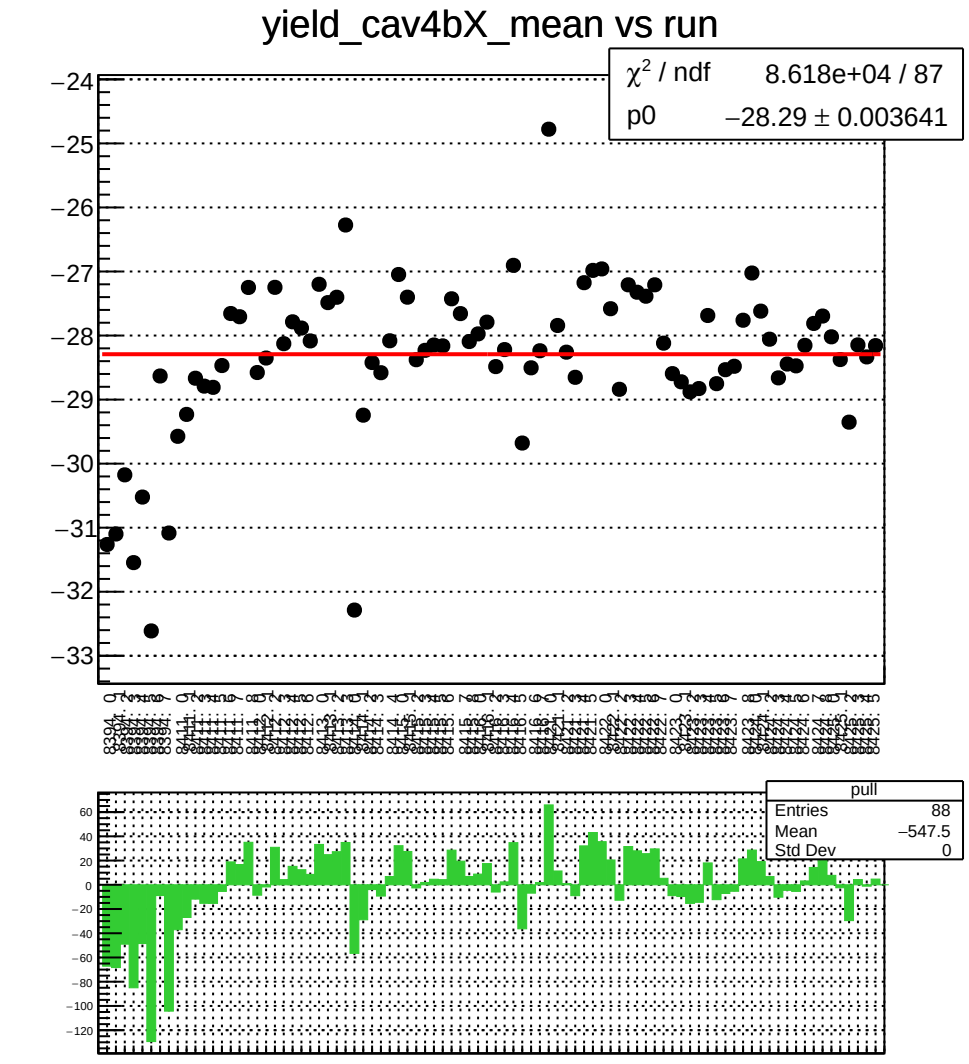

pull1D
Entries 88
Mean −0.01217
Std Dev 1.097

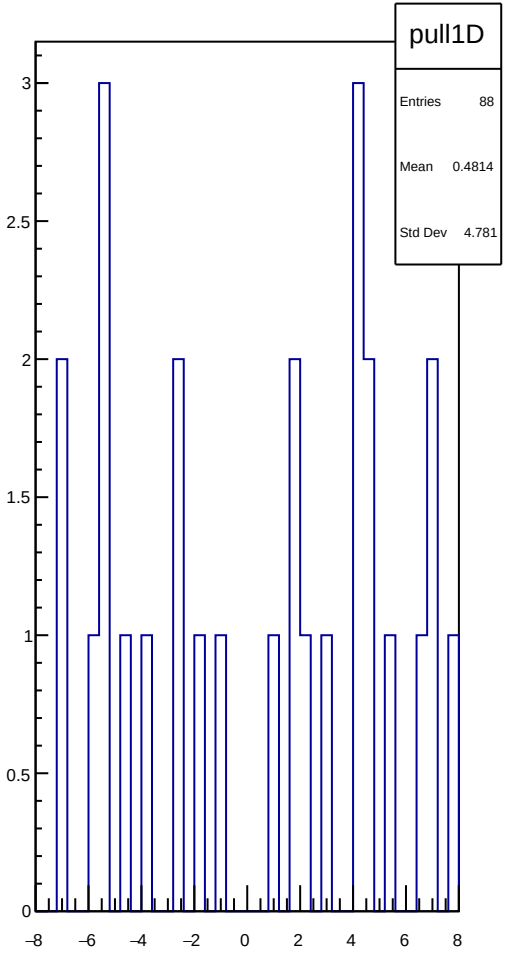

diff_bpmtargetsumY_rms vs run
χ² / ndf 1.04e+04 / 87
p0 8426 ± 6.496
10500
10000
9500
9000
8500
8000
7500

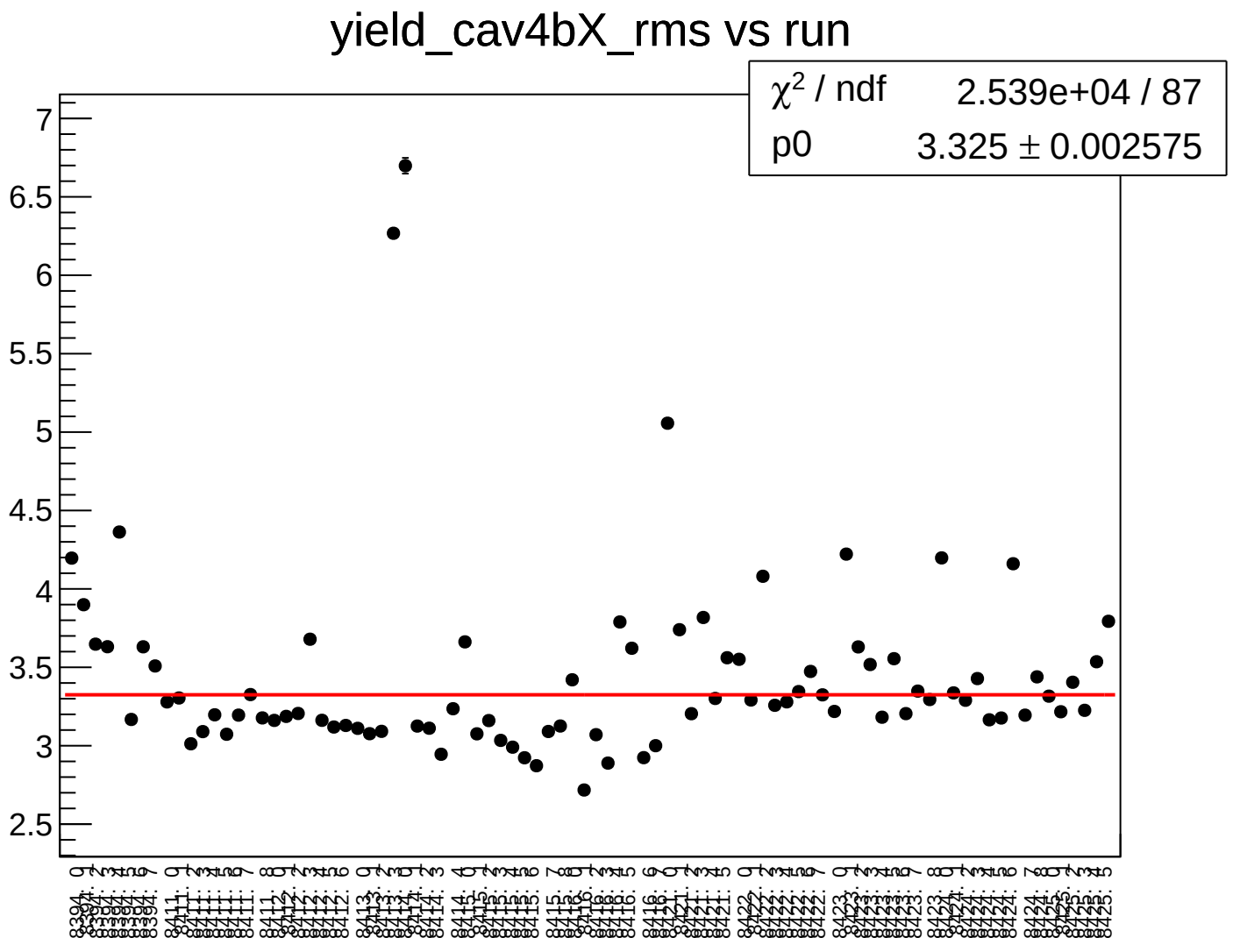

diff_bpmtargetdiffY_mean vs run
χ² / ndf 85.53 / 87
p0 −2.398 ± 0.5968
pull
Entries 88
Mean −803.6
Std Dev 0

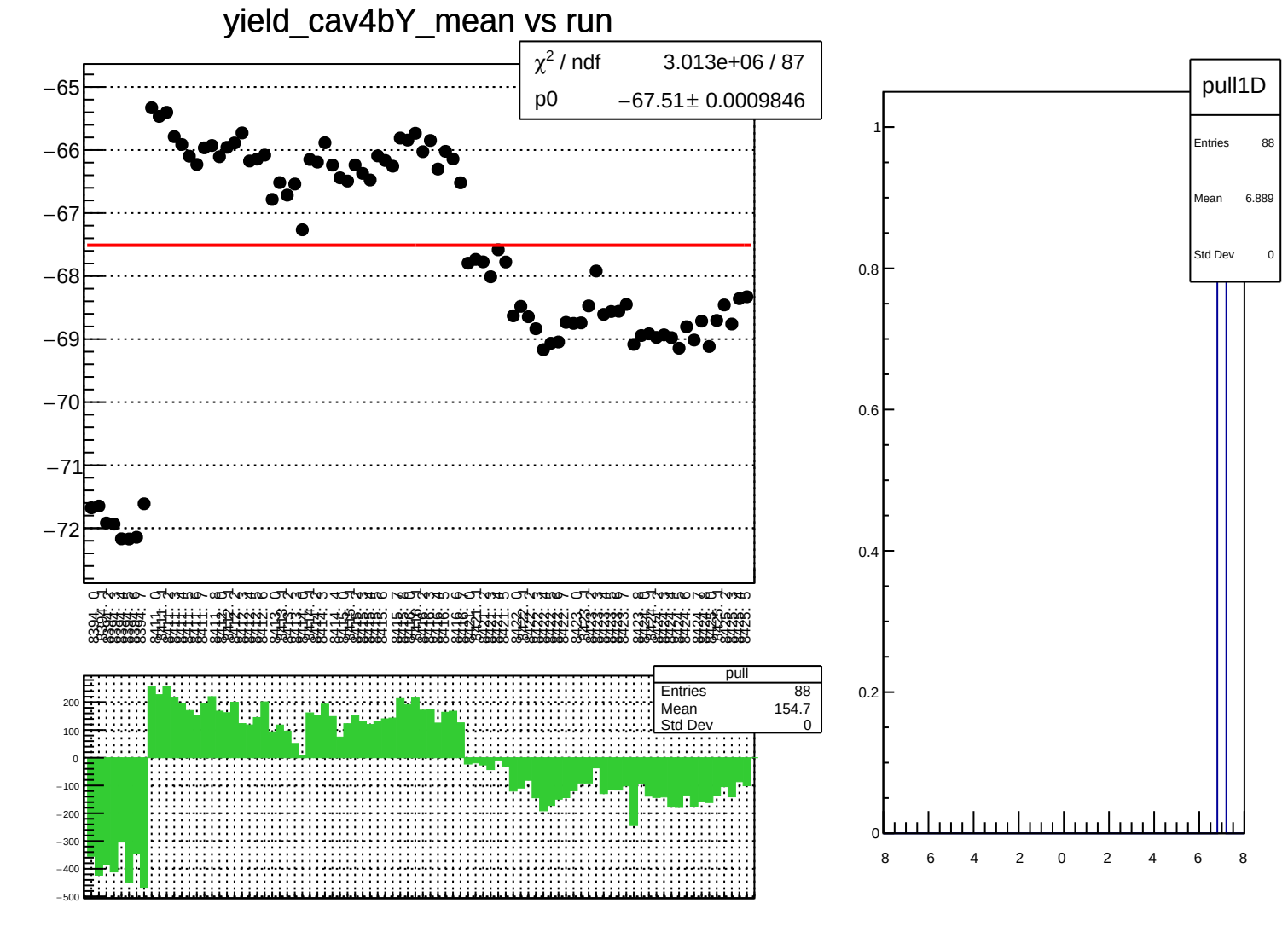

pull1D
Entries 88
Mean −0.003371
Std Dev 0.9859

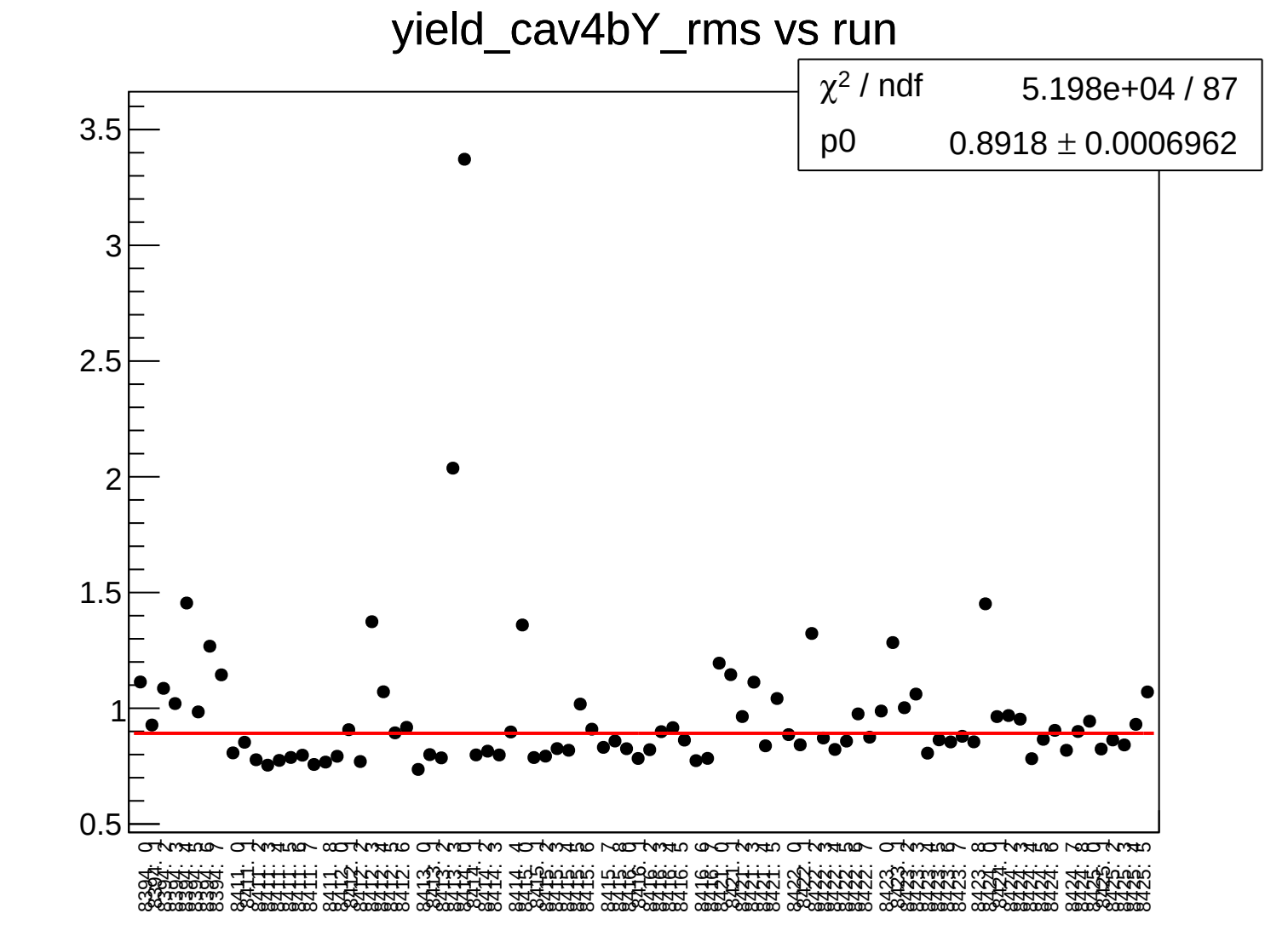

diff_bpmtargetdiffY_rms vs run
χ² / ndf 466.2 / 87
p0 549 ± 0.422
580
570
560
550
540
530

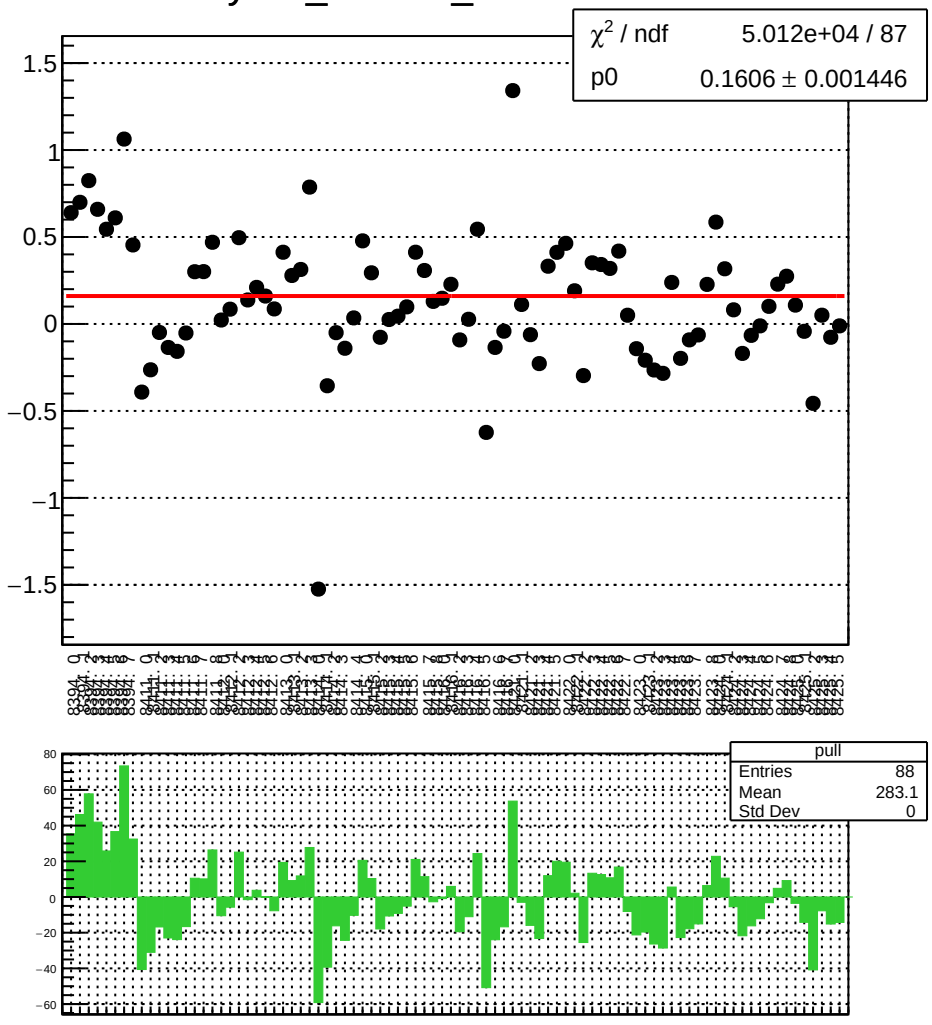

yield_cav4bX_mean vs run
χ² / ndf 8.618e+04 / 87
p0 −28.29 ± 0.003641
pull
Entries 88
Mean −547.5
Std Dev 0

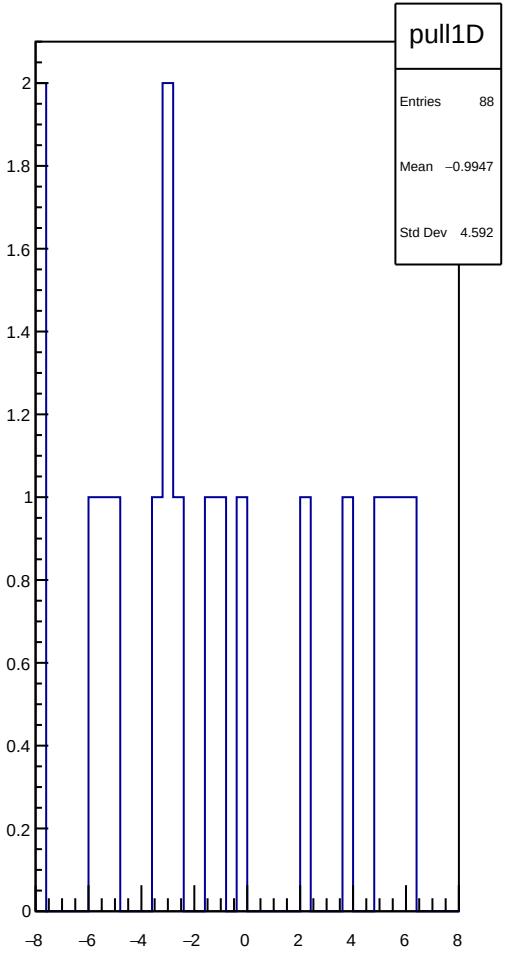

pull1D
Entries 88
Mean 0.4814
Std Dev 4.781

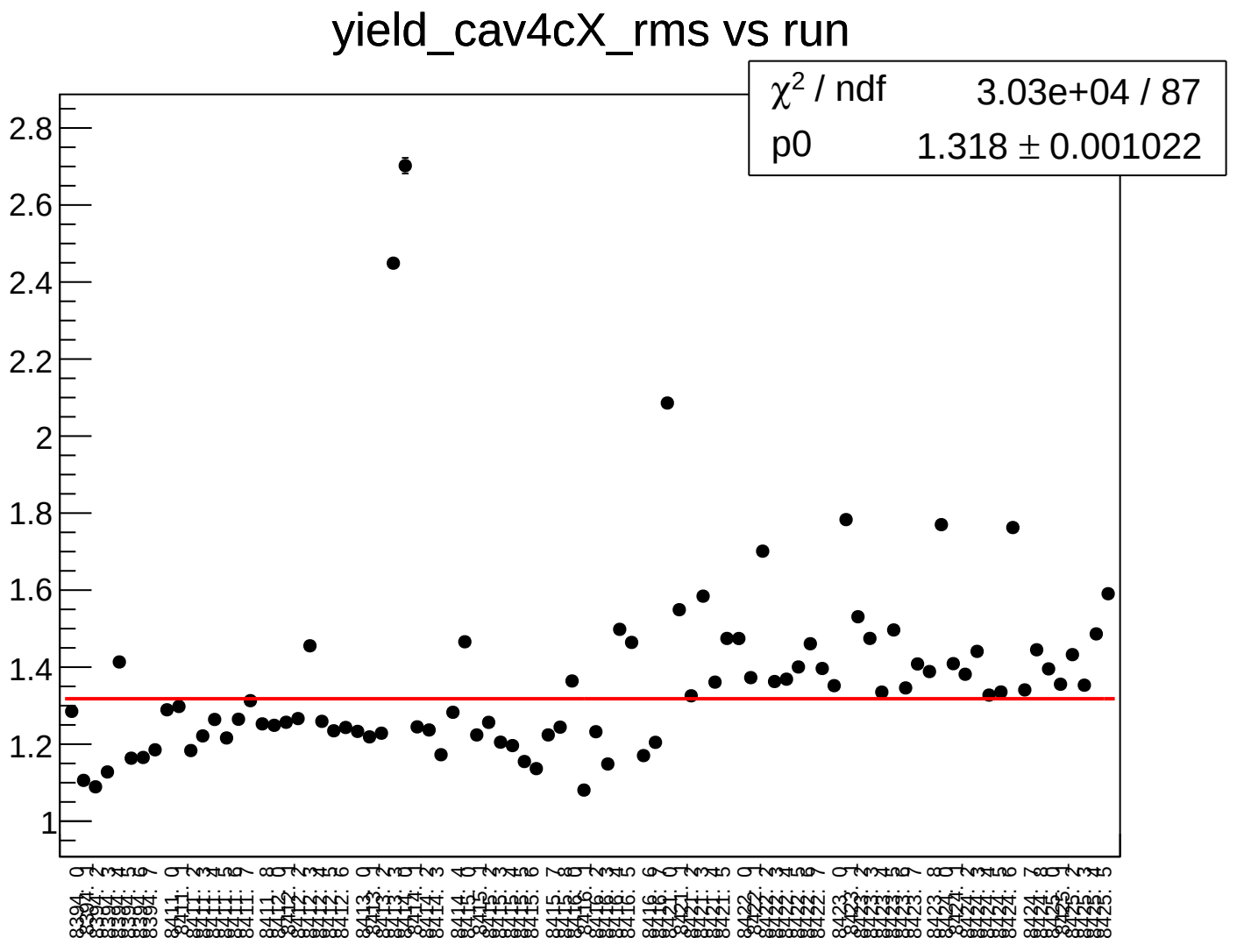

yield_cav4bX_rms vs run
χ^2 / ndf 2.539e+04 / 87
p0 3.325 ± 0.002575
7
6.5
6
5.5
5
4.5
4
3.5
3
2.5

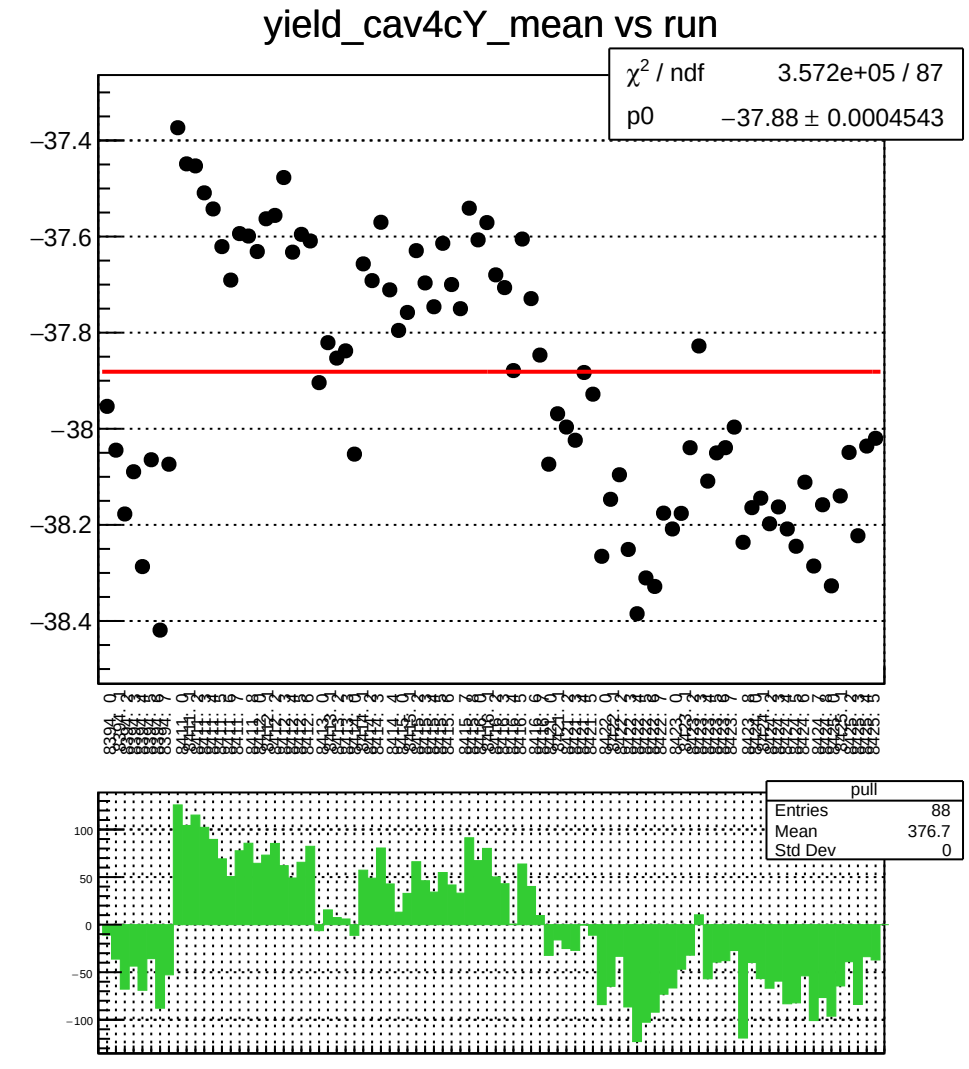

yield_cav4bY_mean vs run
χ² / ndf 3.013e+06 / 87
p0 −67.51± 0.0009846
pull
Entries 88
Mean 154.7
Std Dev 0
pull1D
Entries 88
Mean 6.889
Std Dev 0

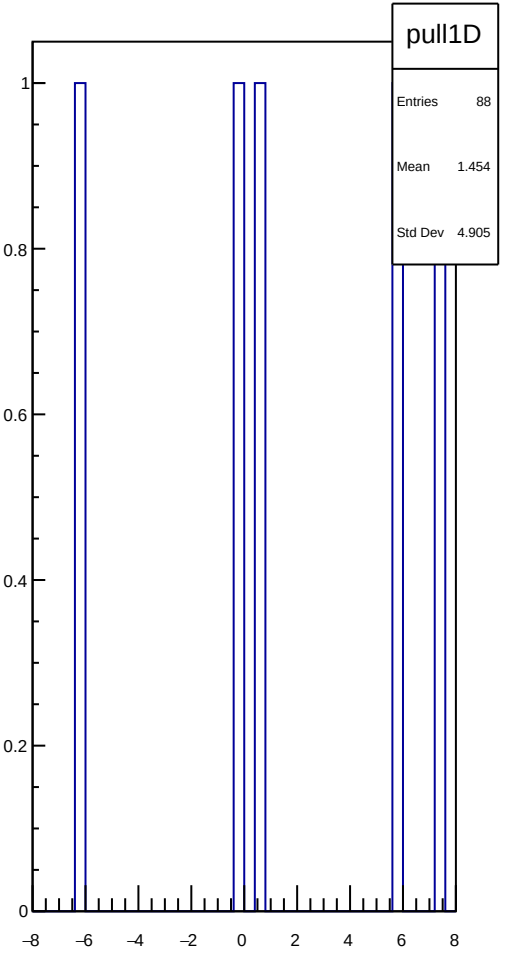

yield_cav4bY_rms vs run
χ² / ndf 5.198e+04 / 87
p0 0.8918 ± 0.0006962
3.5
3
2.5
2
1.5
1
0.5

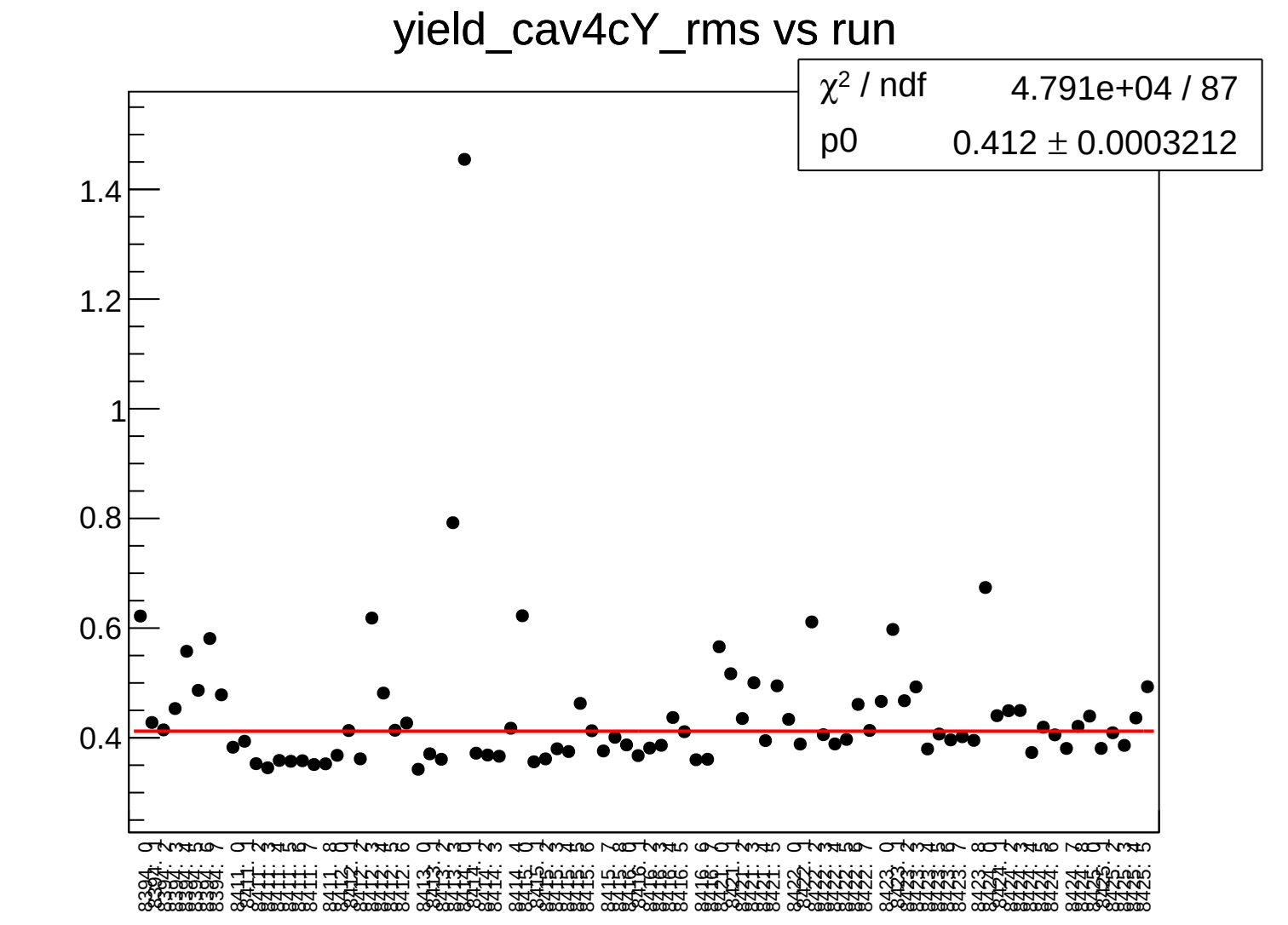

yield_cav4cX_mean vs run
χ² / ndf 5.012e+04 / 87
p0 0.1606 ± 0.001446
pull
Entries 88
Mean 283.1
Std Dev 0

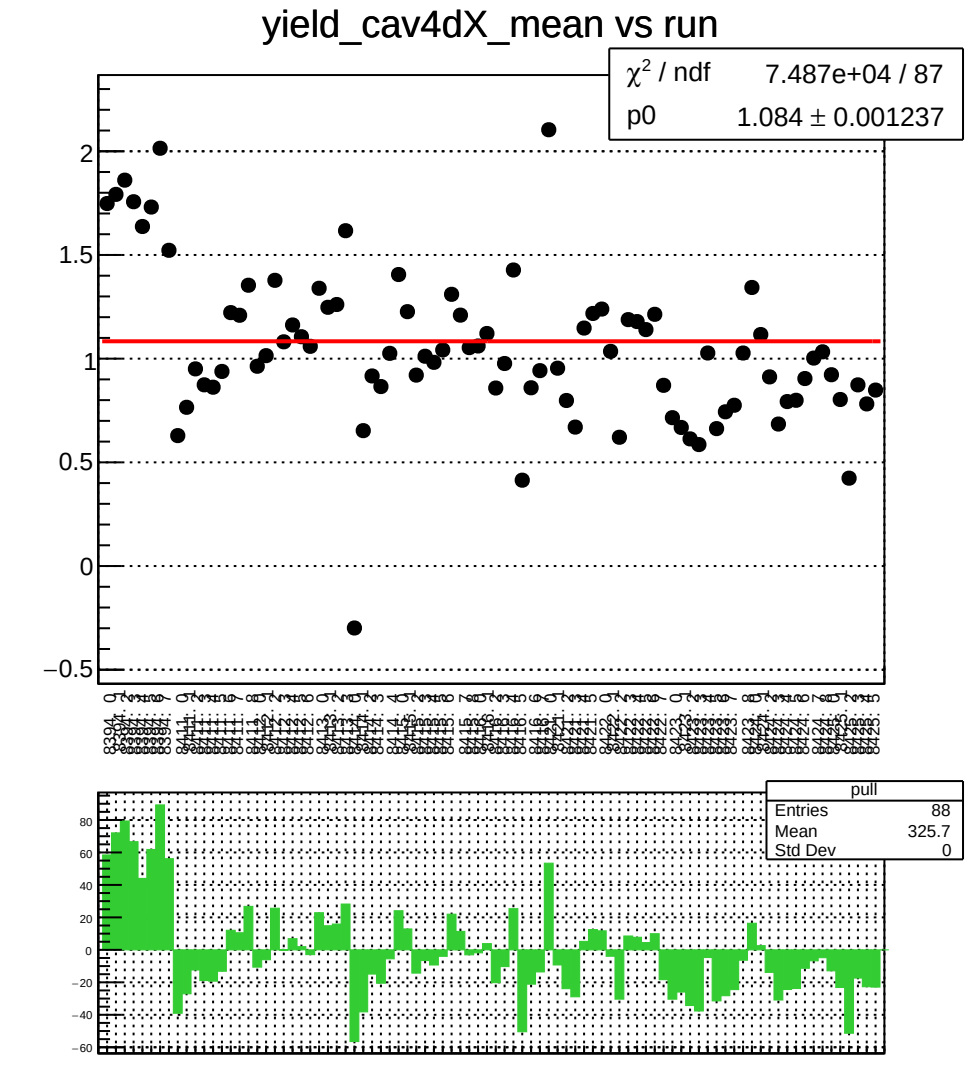

pull1D
Entries 88
Mean −0.9947
Std Dev 4.592

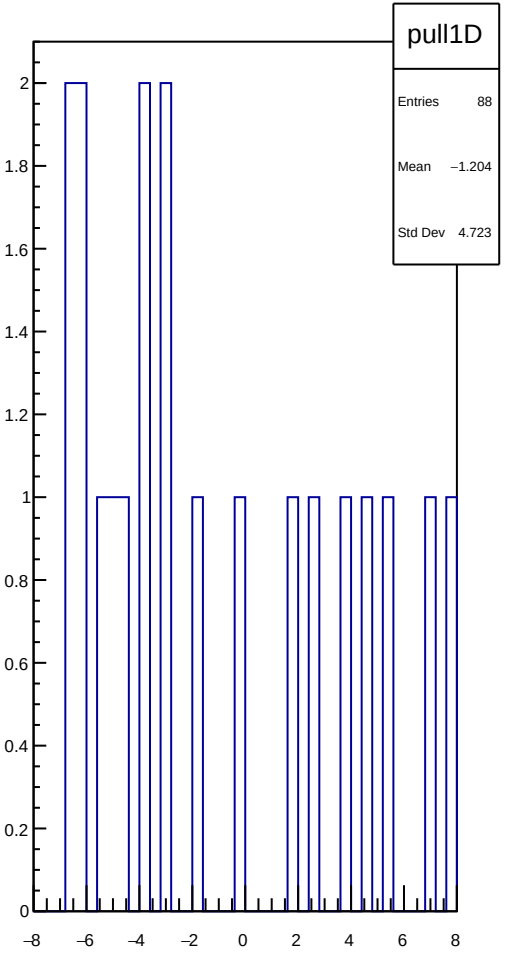

yield_cav4cX_rms vs run
χ^2 / ndf 3.03e+04 / 87
p0 1.318 ± 0.001022
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1

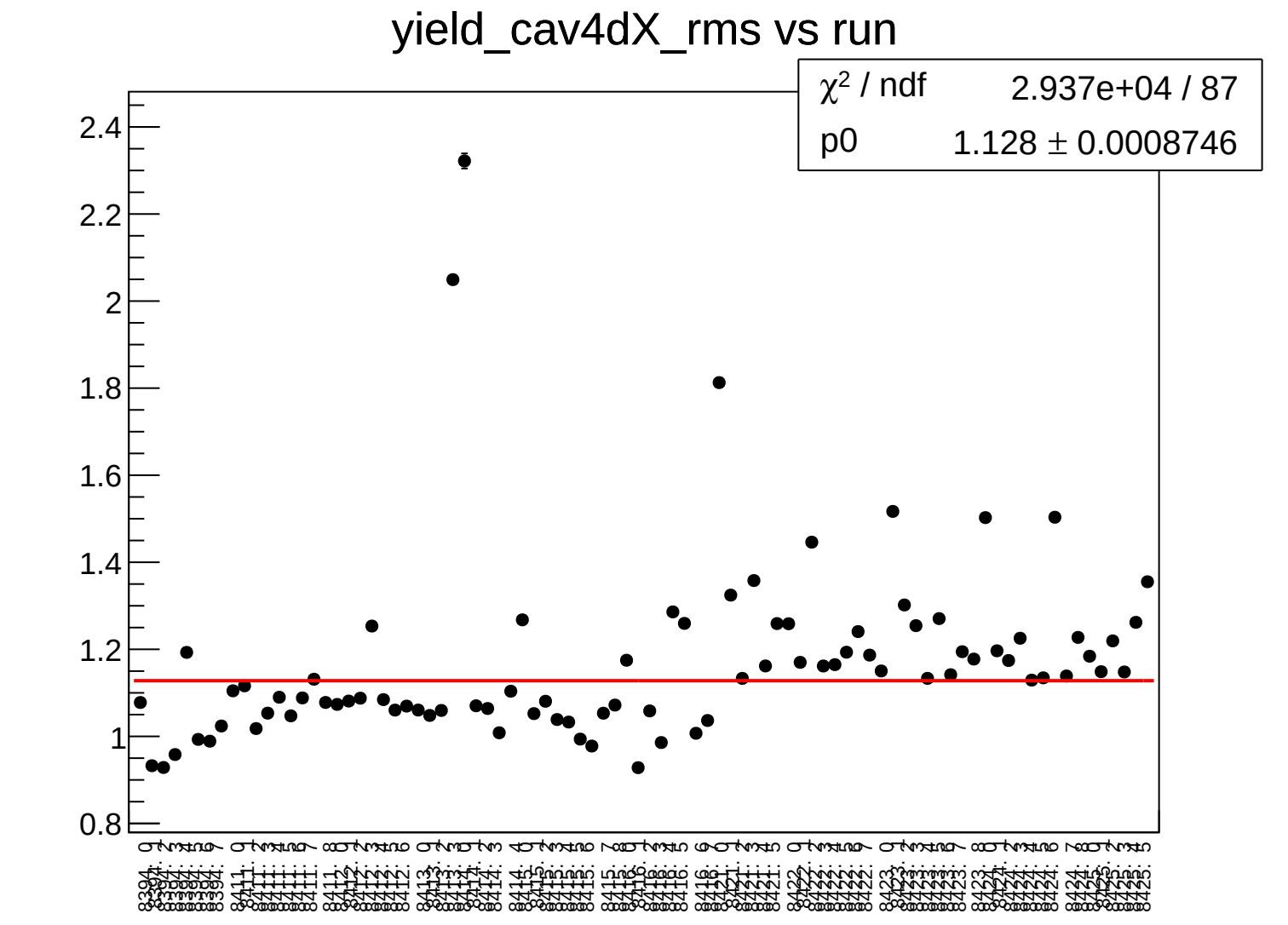

yield_cav4cY_mean vs run
χ² / ndf 3.572e+05 / 87
p0 −37.88 ± 0.0004543
−37.4
−37.6
−37.8
−38
−38.2
−38.4
pull
Entries 88
Mean 376.7
Std Dev 0
100
50
0
−50
−100

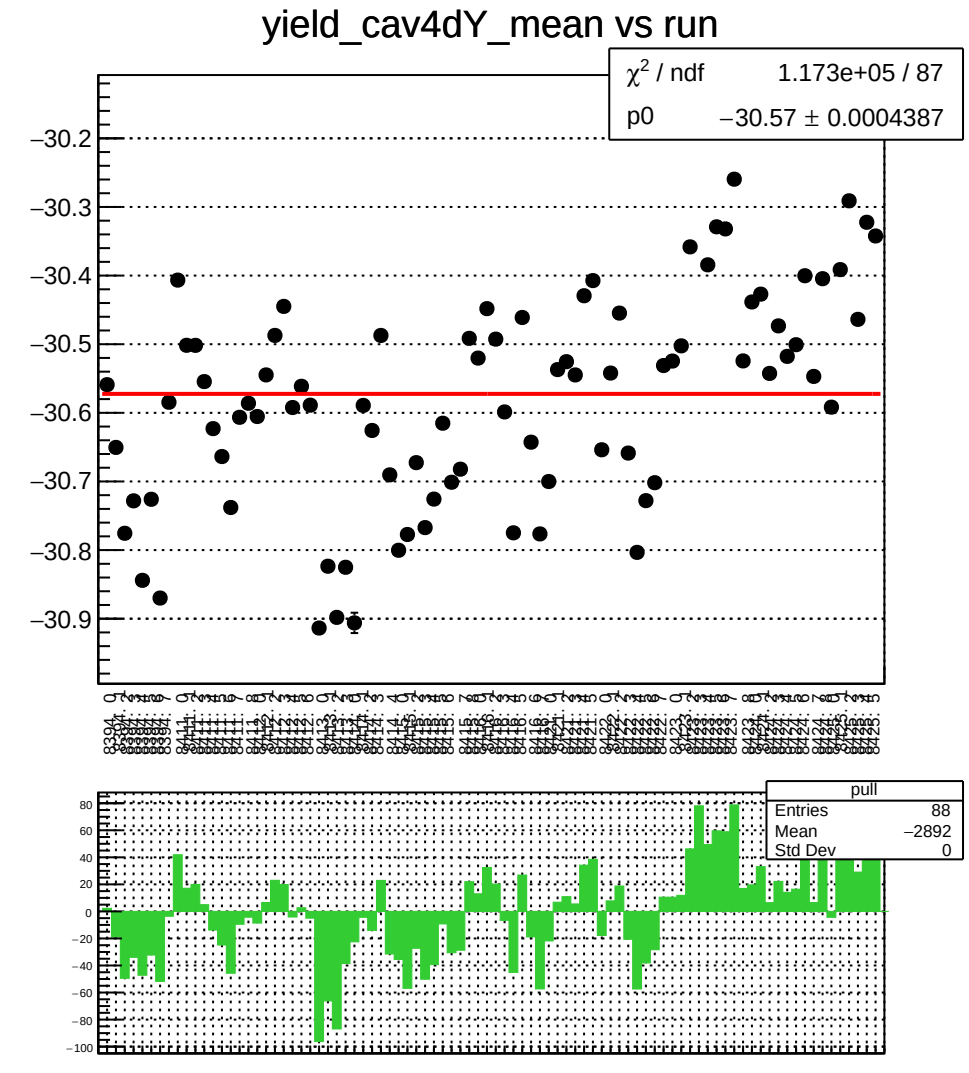

pull1D
Entries 88
Mean 1.454
Std Dev 4.905
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

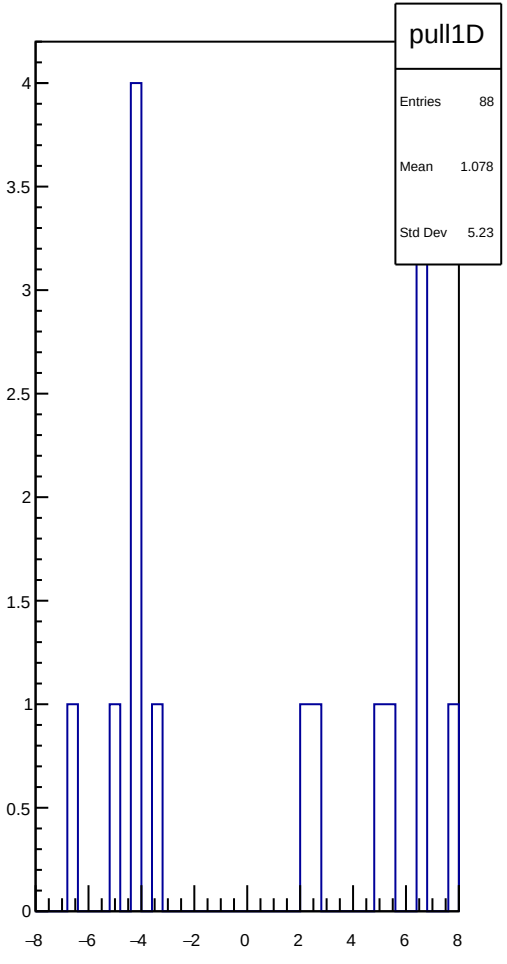

yield_cav4cY_rms vs run
χ² / ndf 4.791e+04 / 87
p0 0.412 ± 0.0003212
1.4
1.2
1
0.8
0.6
0.4

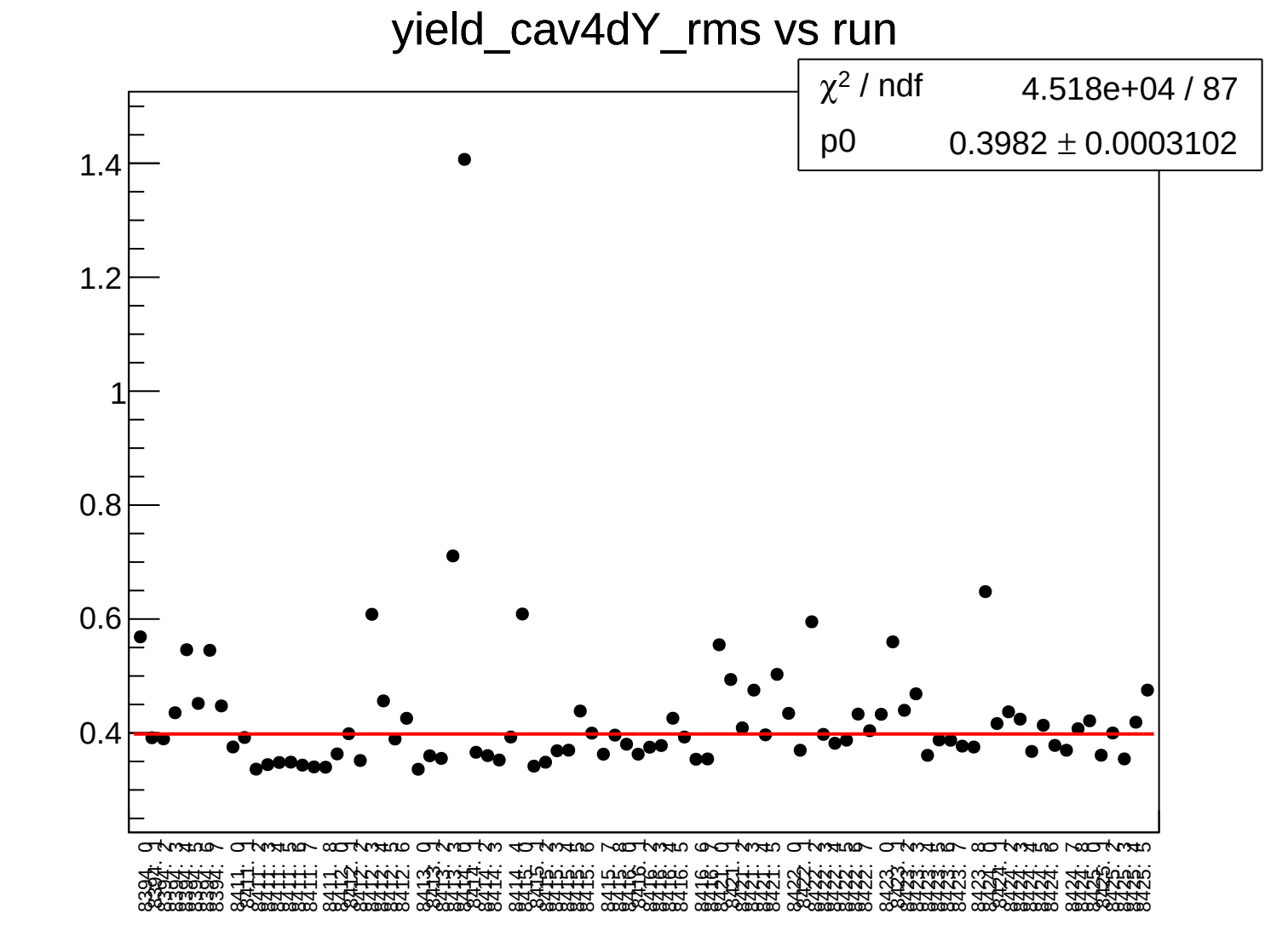

yield_cav4dX_mean vs run
χ² / ndf 7.487e+04 / 87
p0 1.084 ± 0.001237
pull
Entries 88
Mean 325.7
Std Dev 0

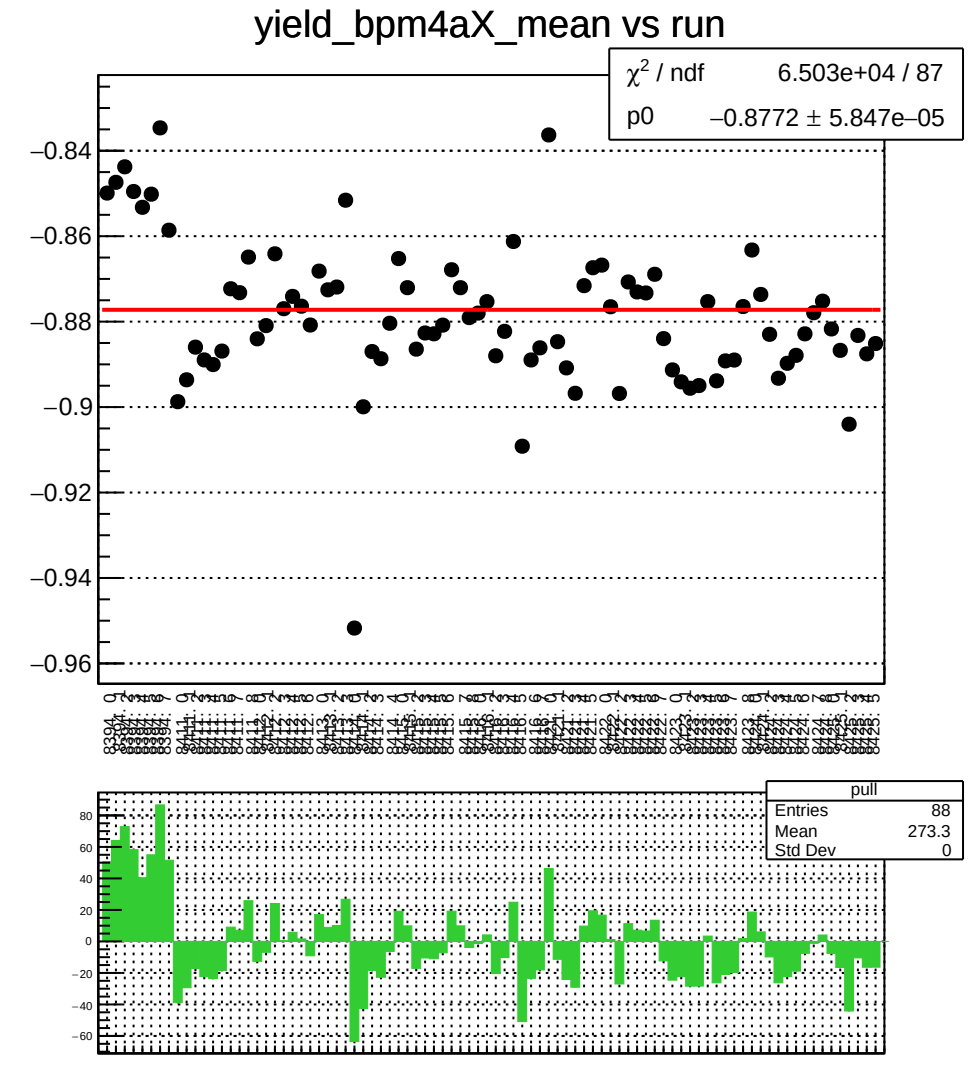

pull1D
Entries 88
Mean −1.204
Std Dev 4.723

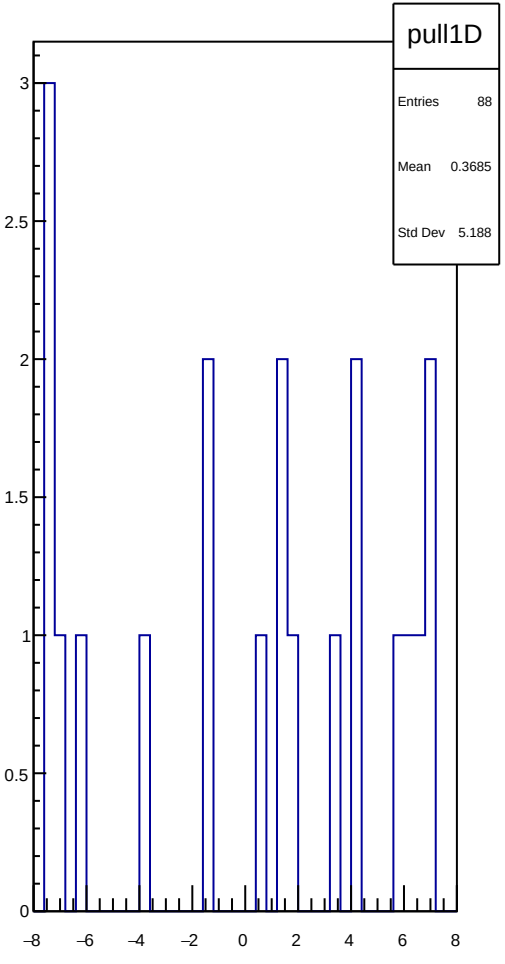

yield_cav4dX_rms vs run
χ² / ndf 2.937e+04 / 87
p0 1.128 ± 0.0008746
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8

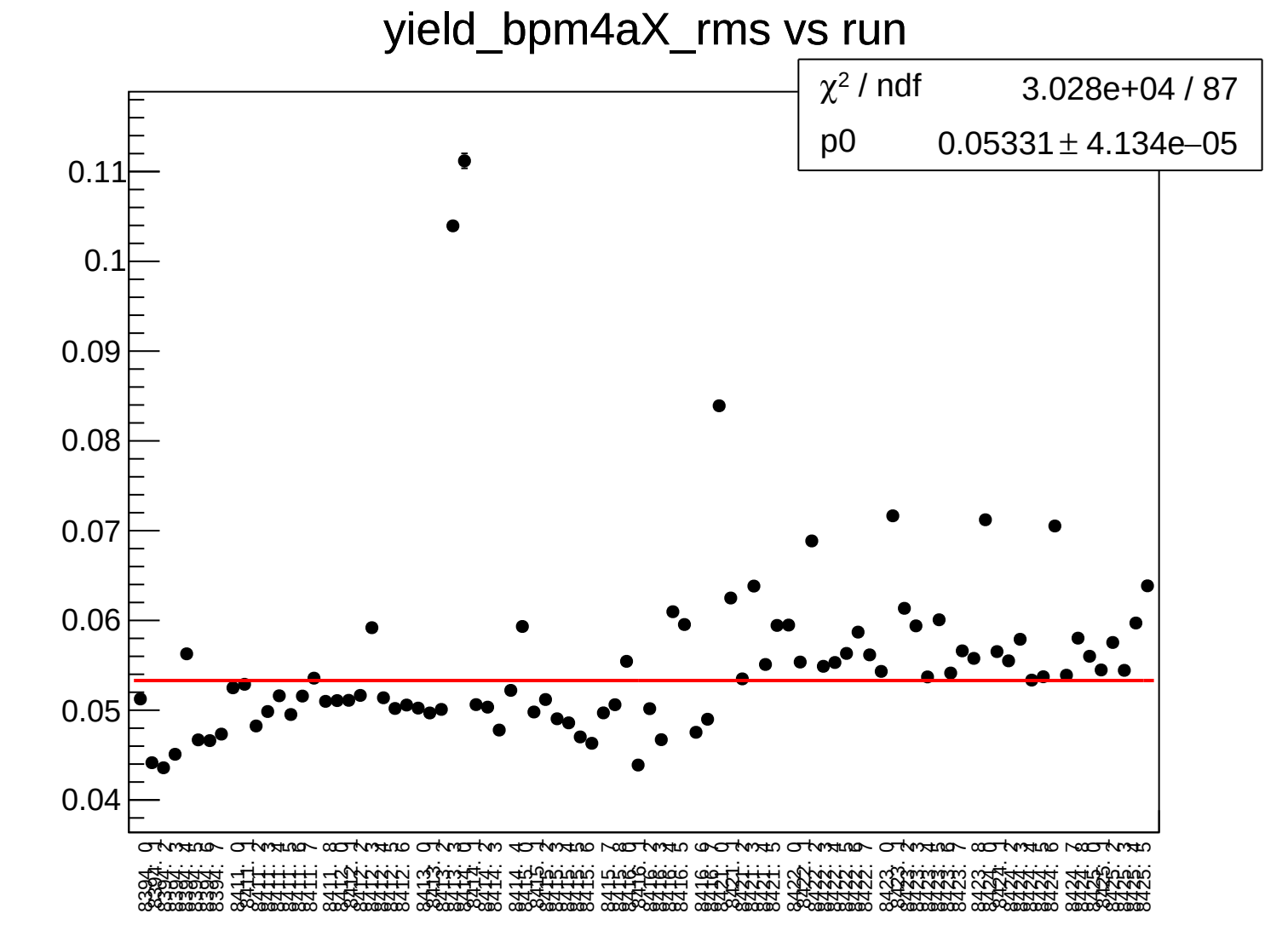

yield_cav4dY_mean vs run
χ² / ndf 1.173e+05 / 87
p0 −30.57 ± 0.0004387
−30.2
−30.3
−30.4
−30.5
−30.6
−30.7
−30.8
−30.9
pull
Entries 88
Mean −2892
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

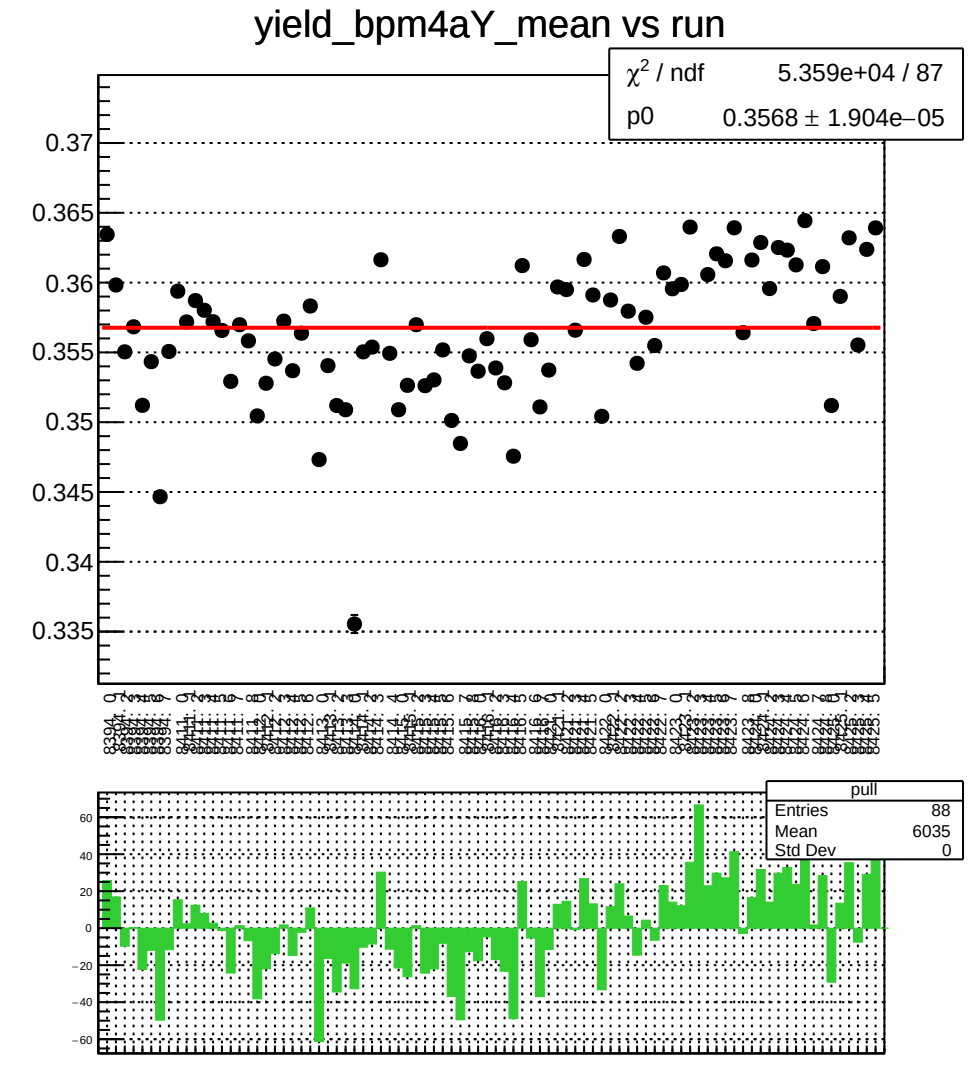

pull1D
Entries 88
Mean 1.078
Std Dev 5.23
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

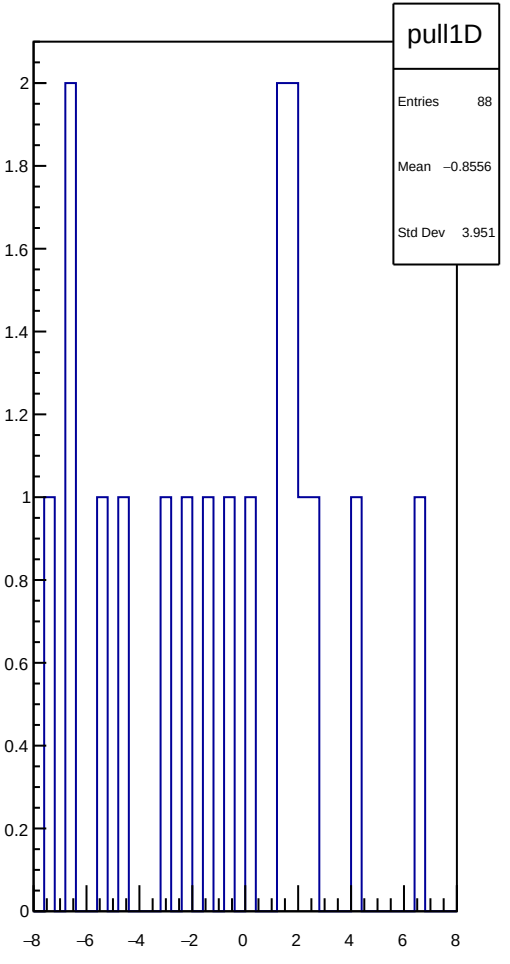

yield_cav4dY_rms vs run
χ² / ndf 4.518e+04 / 87
p0 0.3982 ± 0.0003102
1.4
1.2
1
0.8
0.6
0.4

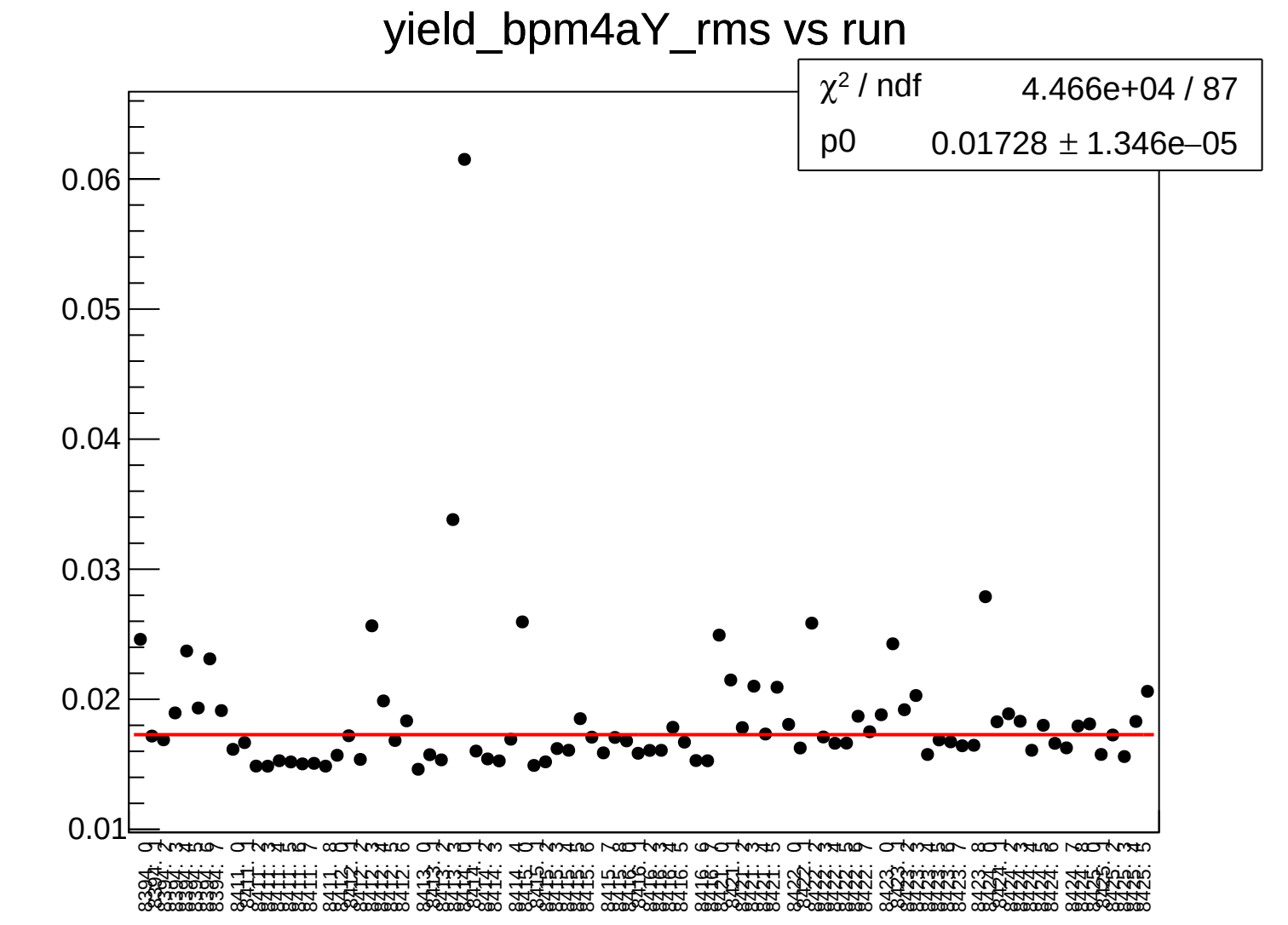

yield_bpm4aX_mean vs run
χ² / ndf 6.503e+04 / 87
p0 −0.8772 ± 5.847e−05
−0.84
−0.86
−0.88
−0.9
−0.92
−0.94
−0.96
pull
Entries 88
Mean 273.3
Std Dev 0
80
60
40
20
0
−20
−40
−60

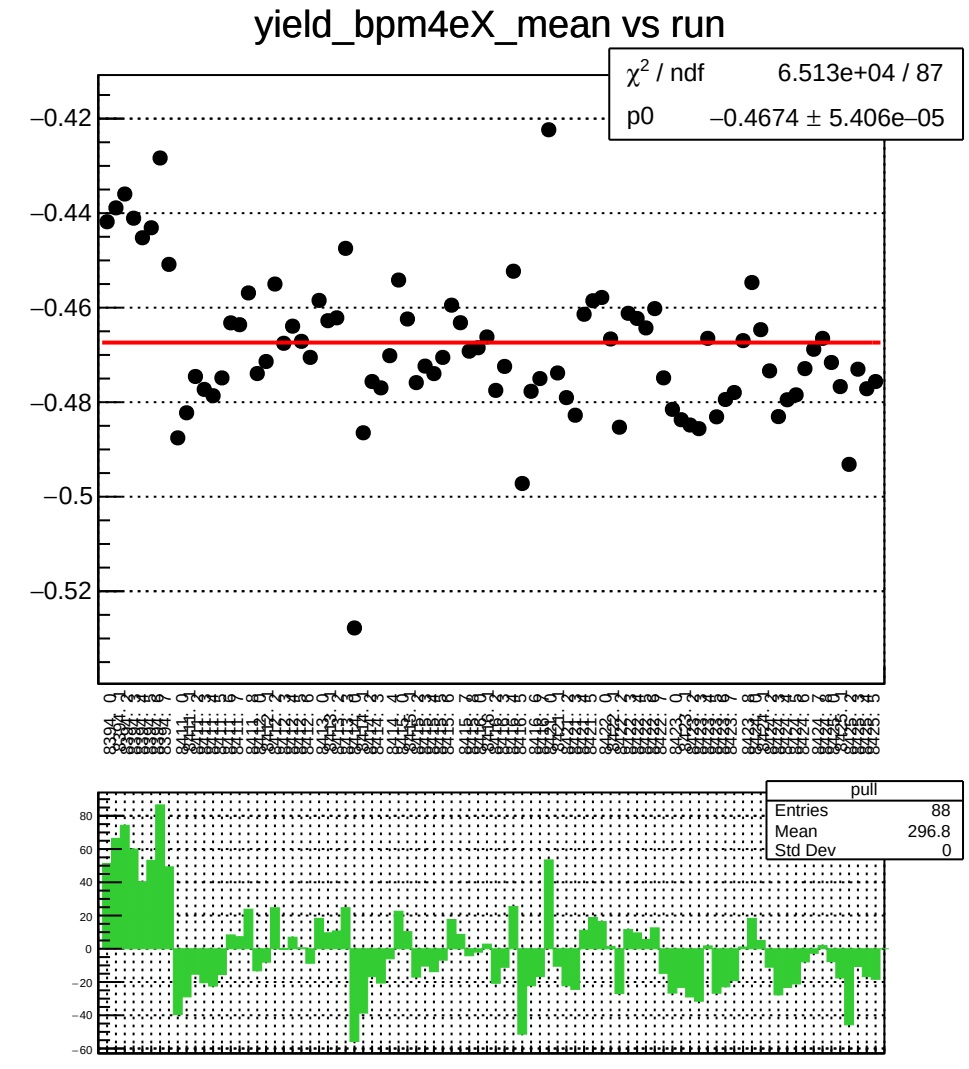

pull1D
Entries 88
Mean 0.3685
Std Dev 5.188
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

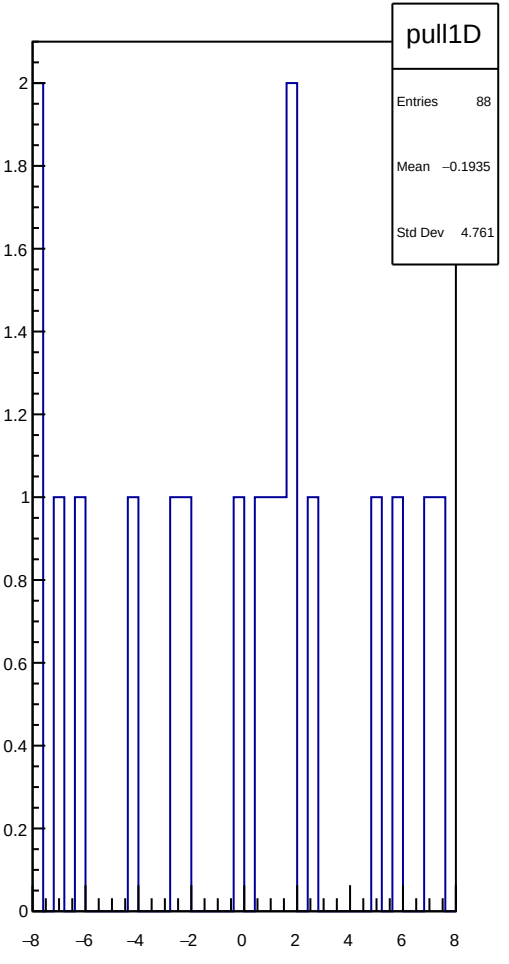

yield_bpm4aX_rms vs run
χ² / ndf 3.028e+04 / 87
p0 0.05331 ± 4.134e–05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

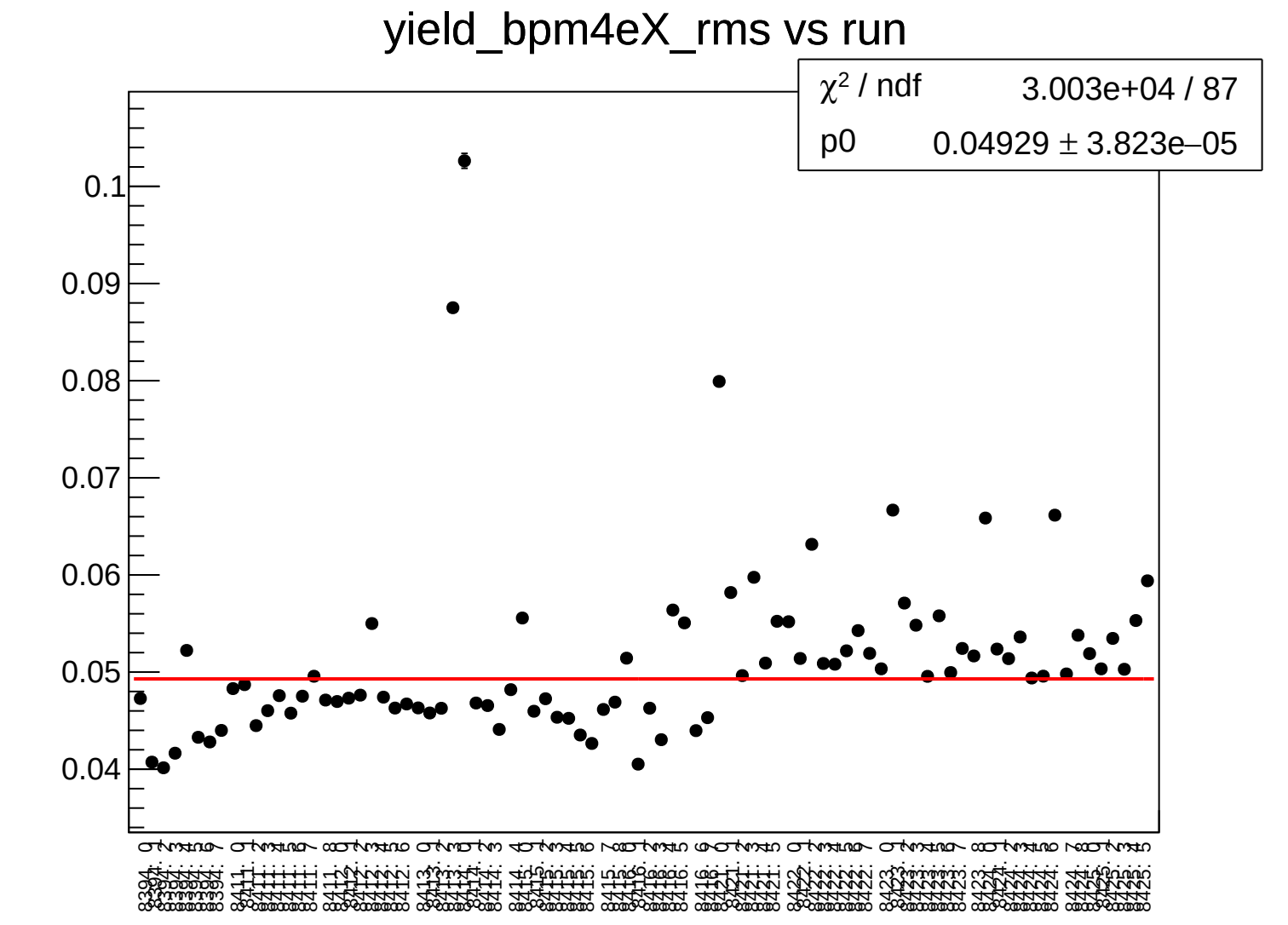

yield_bpm4aY_mean vs run
χ² / ndf 5.359e+04 / 87
p0 0.3568 ± 1.904e−05
0.37
0.365
0.36
0.355
0.35
0.345
0.34
0.335
pull
Entries 88
Mean 6035
Std Dev 0
60
40
20
0
−20
−40
−60

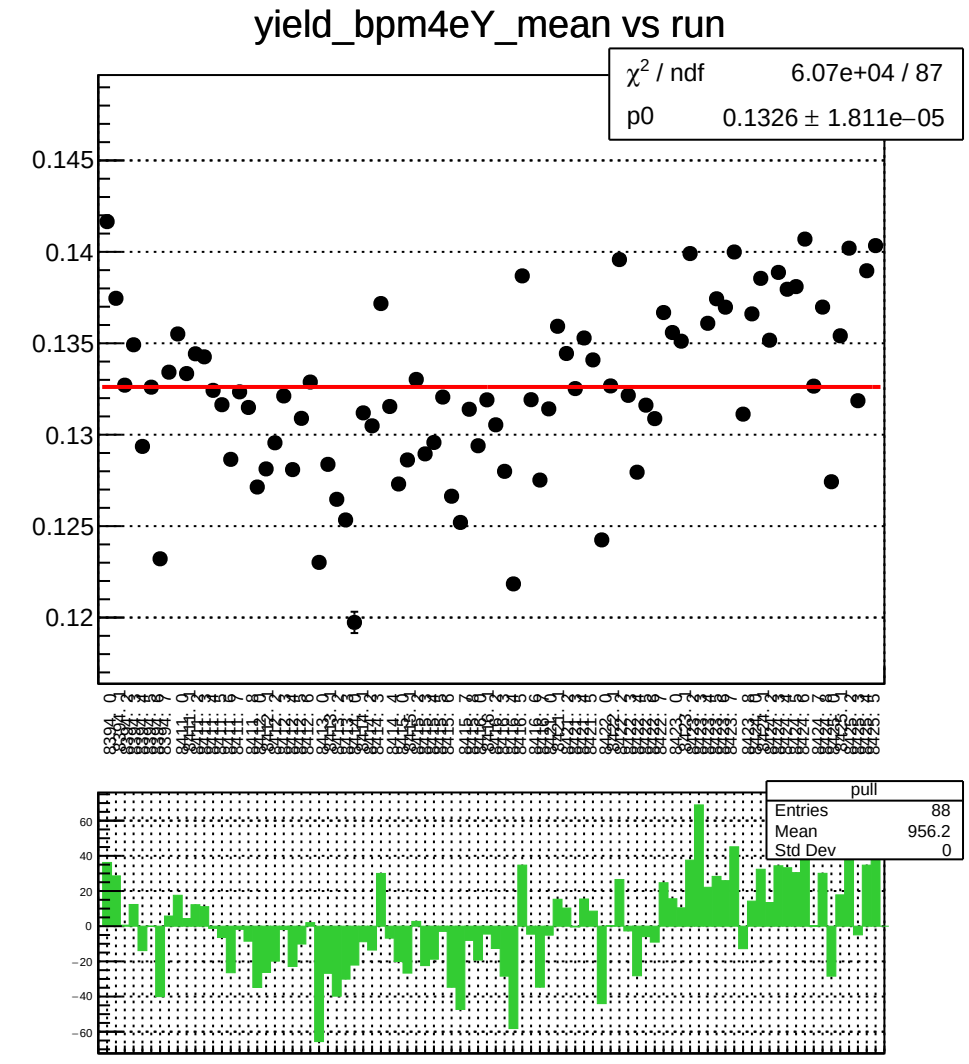

pull1D
Entries 88
Mean −0.8556
Std Dev 3.951
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

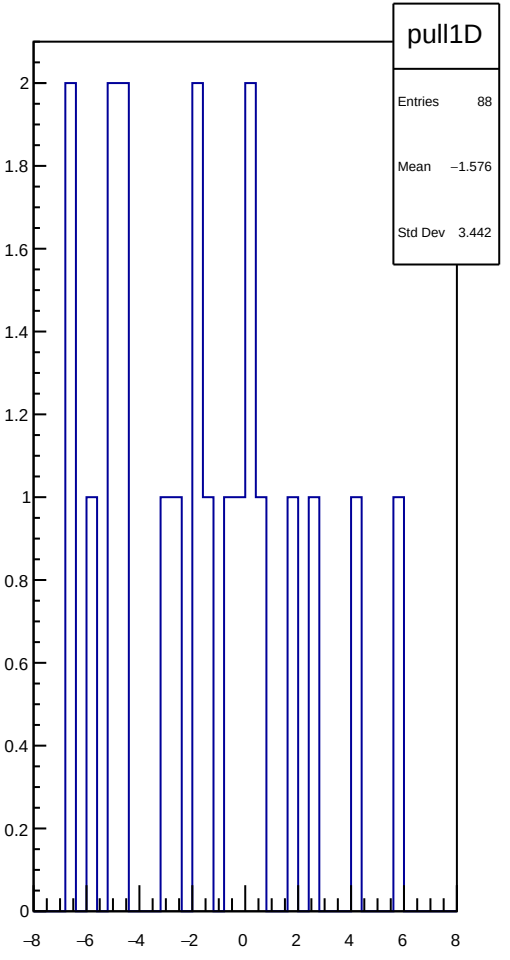

yield_bpm4aY_rms vs run
χ² / ndf 4.466e+04 / 87
p0 0.01728 ± 1.346e−05
0.06
0.05
0.04
0.03
0.02
0.01

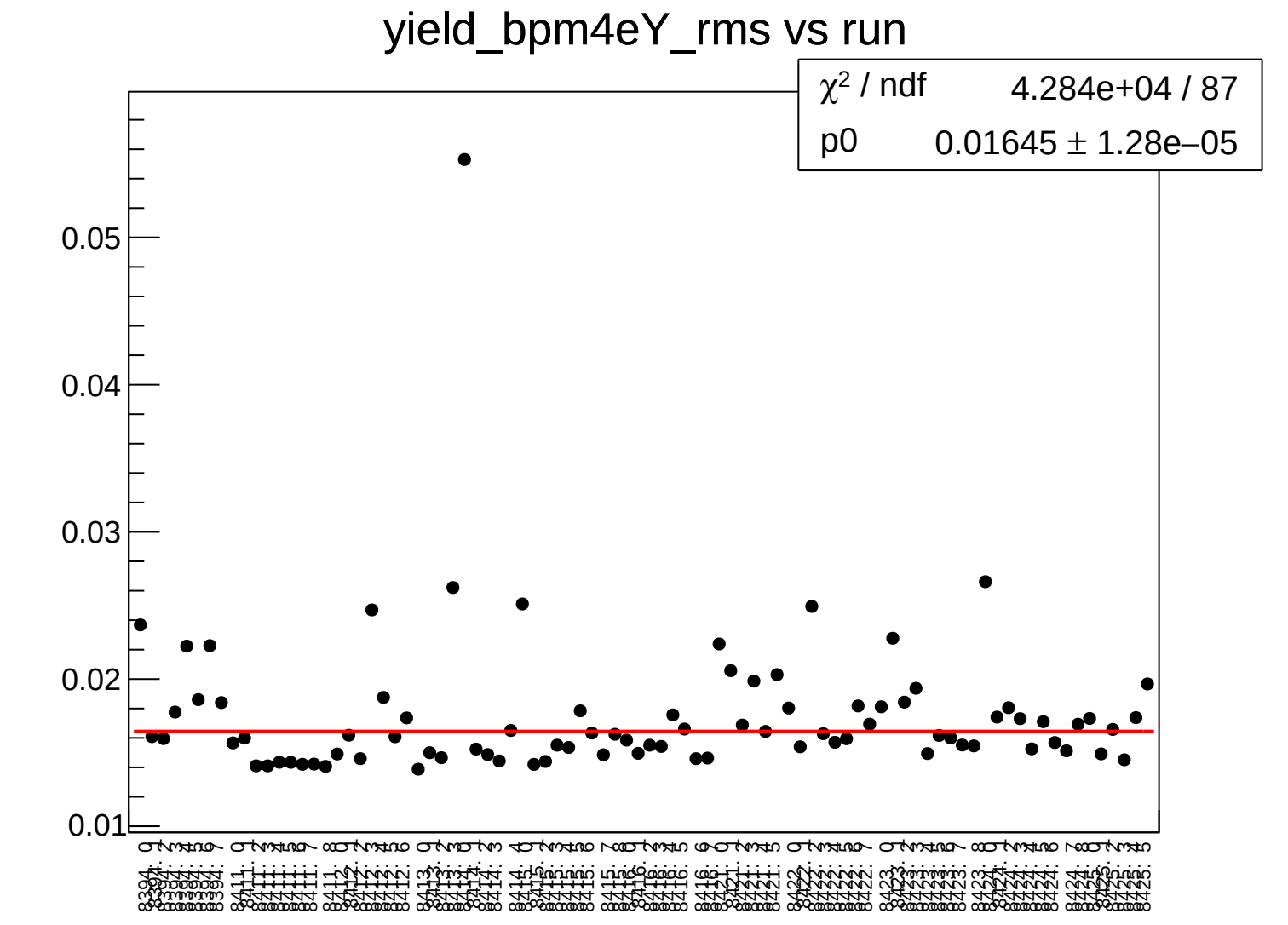

yield_bpm4eX_mean vs run
χ² / ndf 6.513e+04 / 87
p0 −0.4674 ± 5.406e−05
−0.42
−0.44
−0.46
−0.48
−0.5
−0.52
pull
Entries 88
Mean 296.8
Std Dev 0
80
60
40
20
0
−20
−40
−60

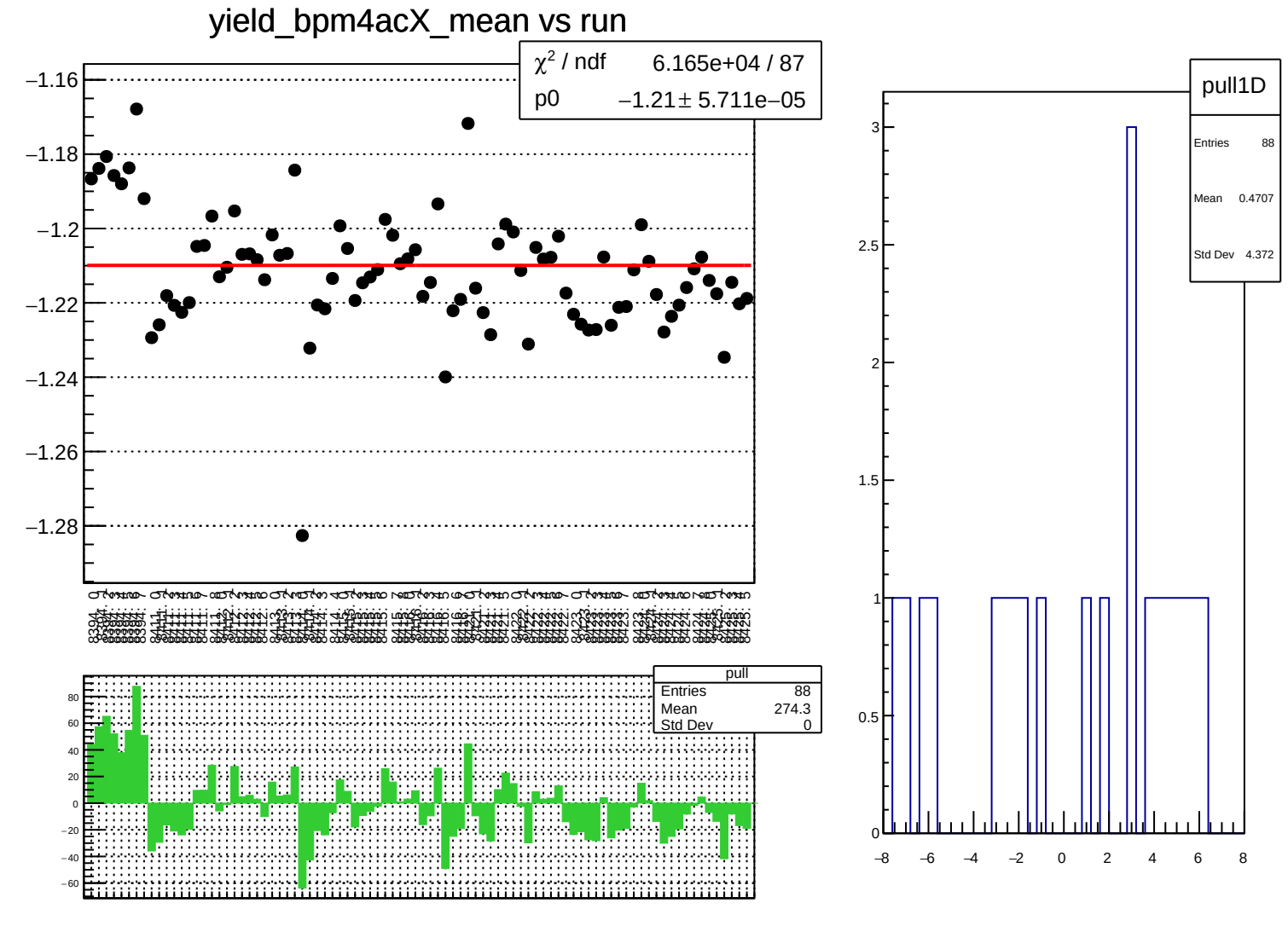

pull1D
Entries 88
Mean −0.1935
Std Dev 4.761
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

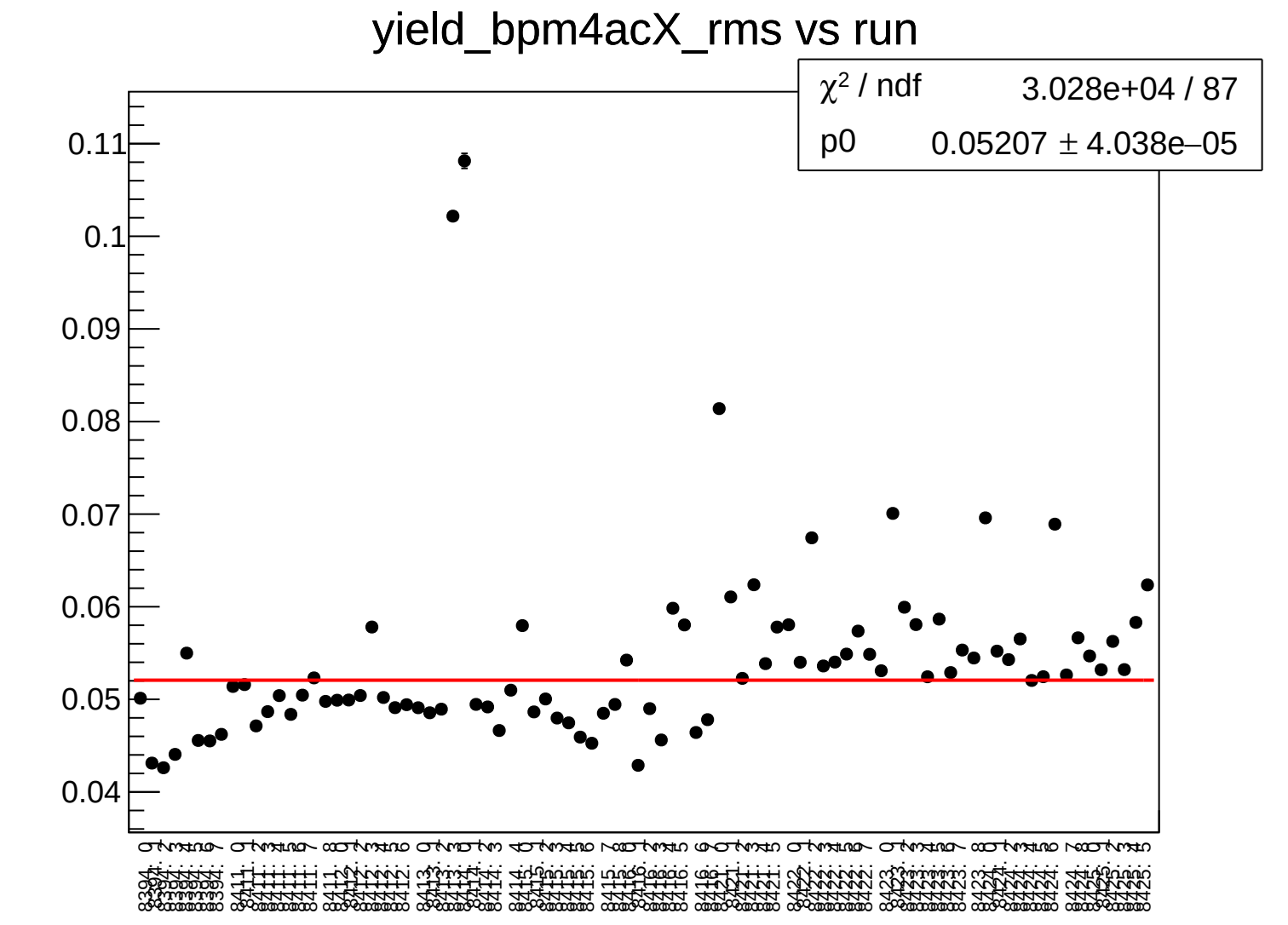

yield_bpm4eX_rms vs run
χ² / ndf 3.003e+04 / 87
p0 0.04929 ± 3.823e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04

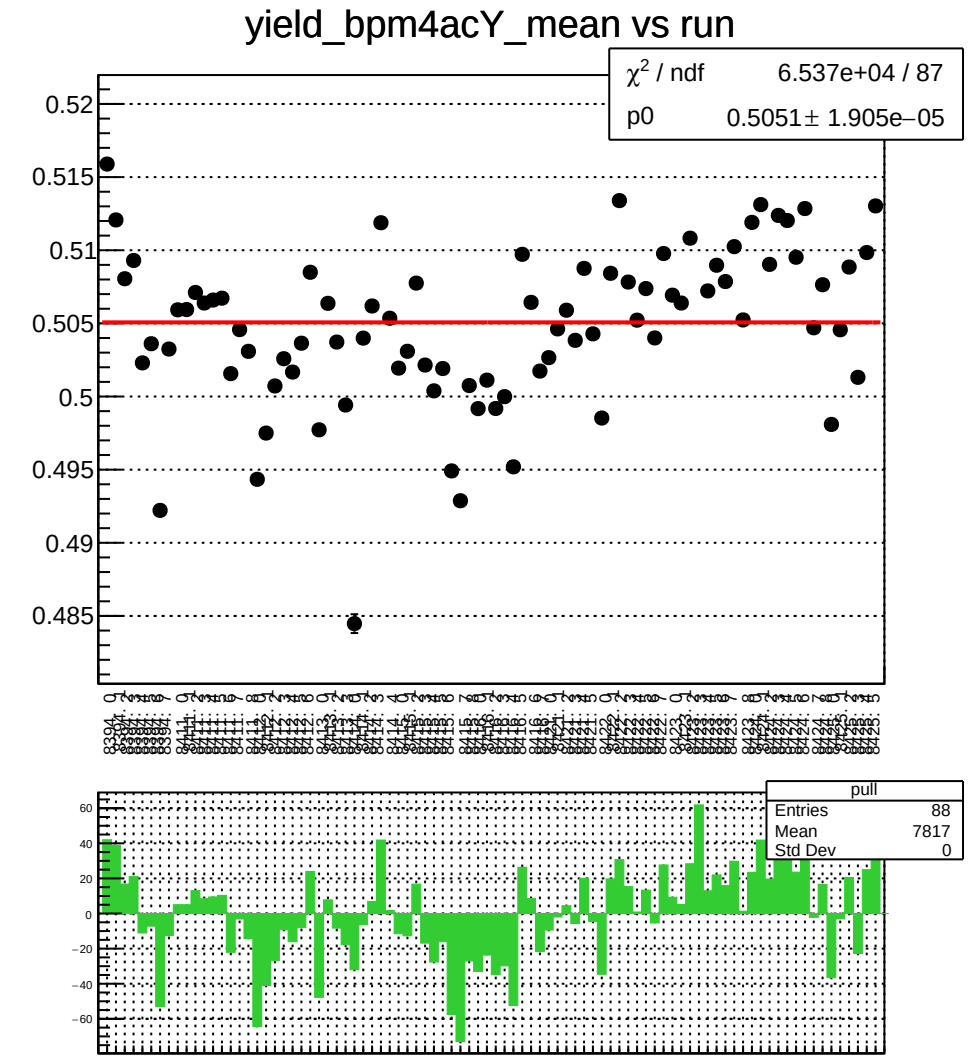

yield_bpm4eY_mean vs run
χ² / ndf 6.07e+04 / 87
p0 0.1326 ± 1.811e−05
0.145
0.14
0.135
0.13
0.125
0.12
pull
Entries 88
Mean 956.2
Std Dev 0
60
40
20
0
−20
−40
−60

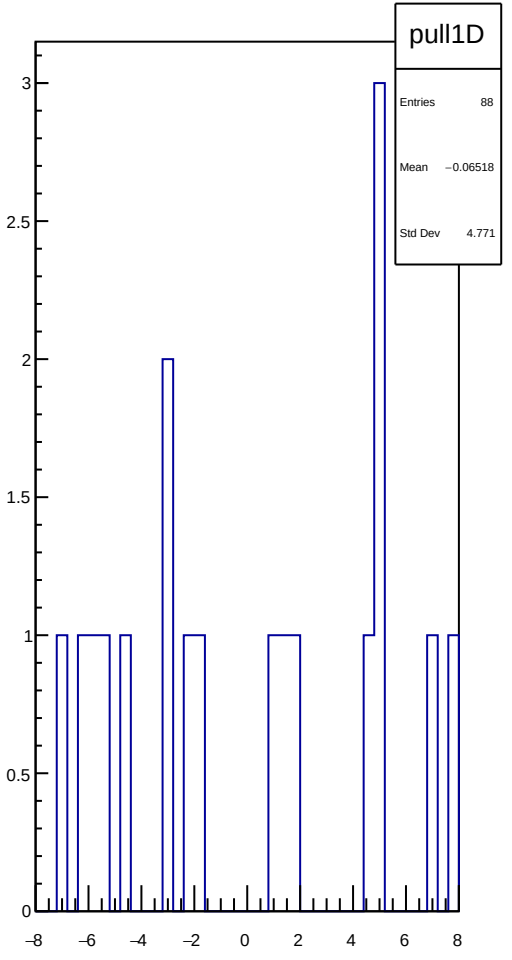

pull1D
Entries 88
Mean −1.576
Std Dev 3.442
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

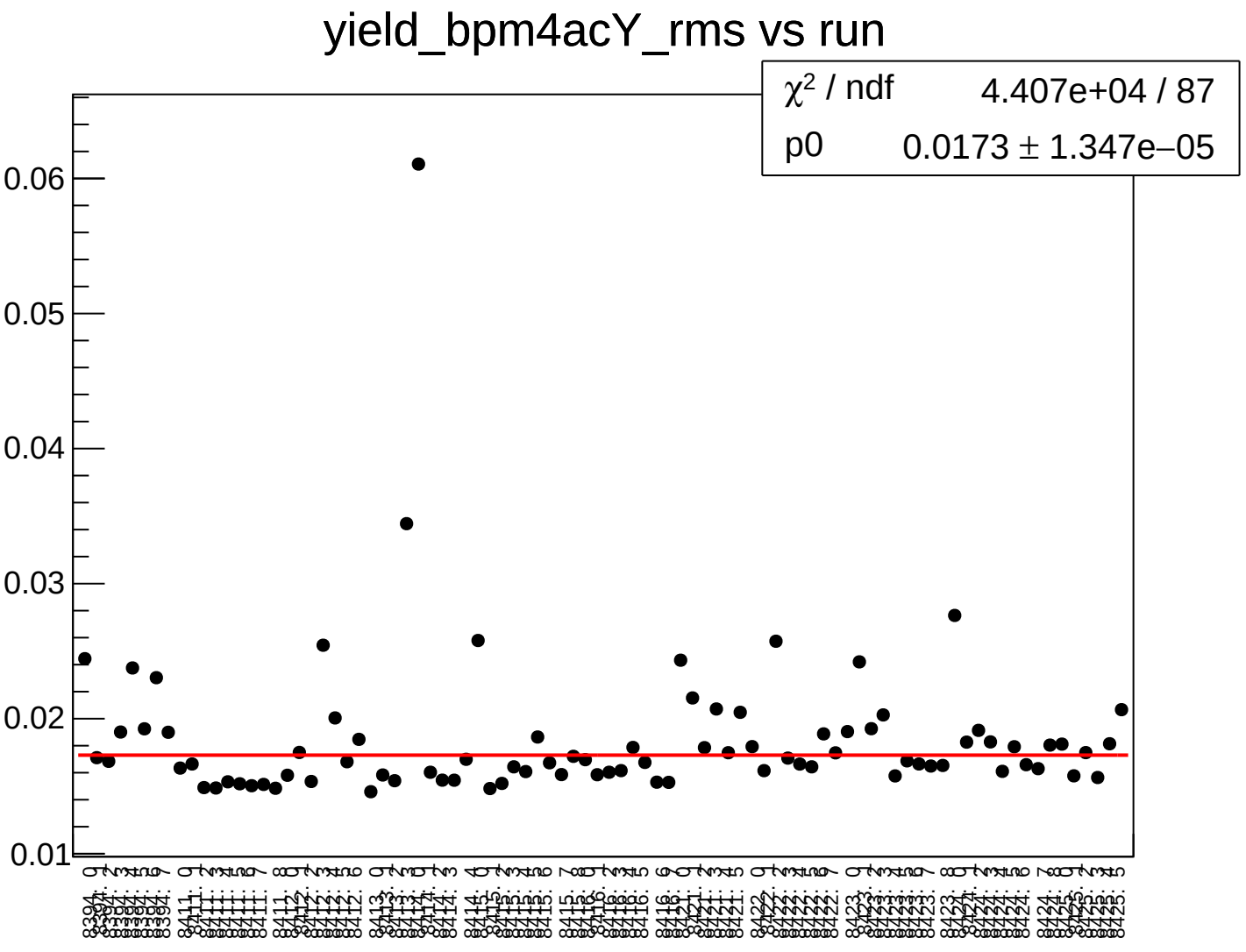

yield_bpm4eY_rms vs run
χ² / ndf 4.284e+04 / 87
p0 0.01645 ± 1.28e−05
0.05
0.04
0.03
0.02
0.01

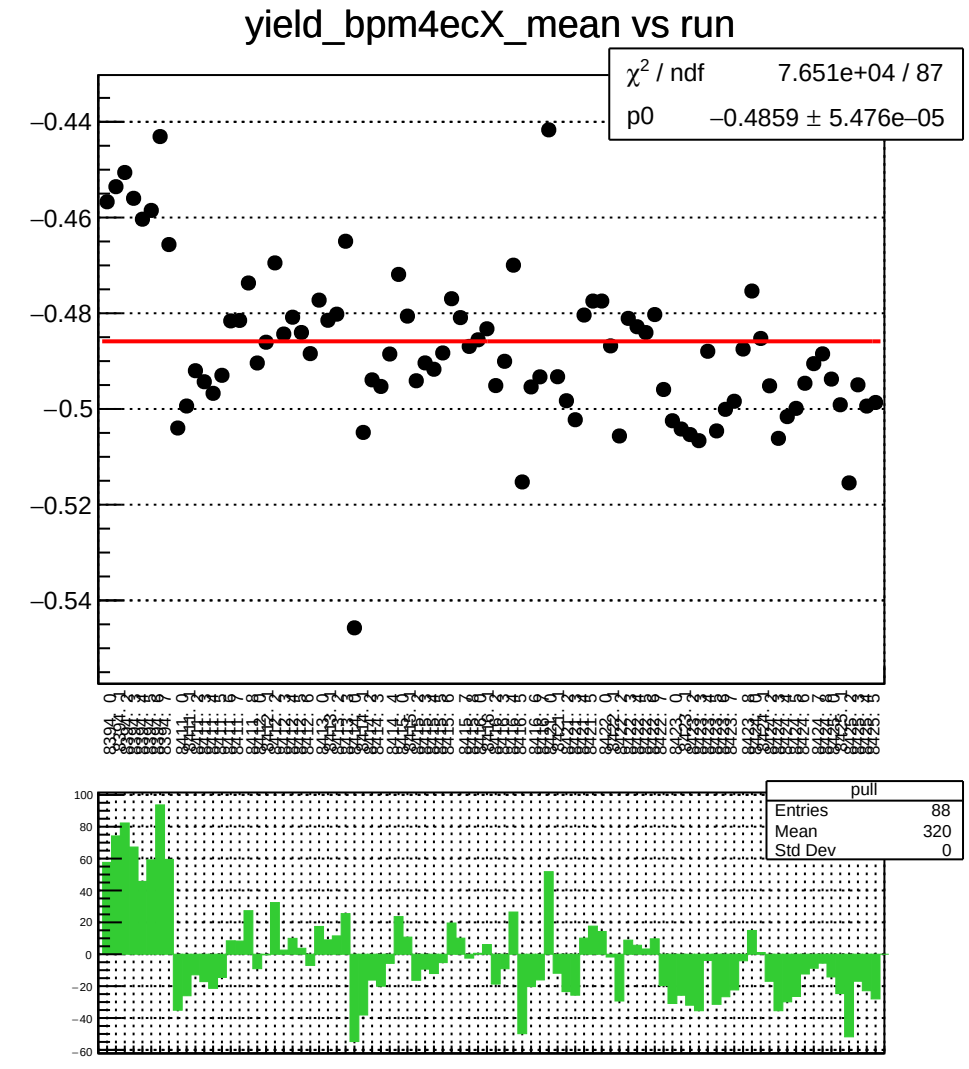

yield_bpm4acX_mean vs run
χ² / ndf 6.165e+04 / 87
p0 −1.21 ± 5.711e−05
−1.16
−1.18
−1.2
−1.22
−1.24
−1.26
−1.28
pull
Entries 88
Mean 274.3
Std Dev 0
80
60
40
20
0
−20
−40
−60
pull1D
Entries 88
Mean 0.4707
Std Dev 4.372
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

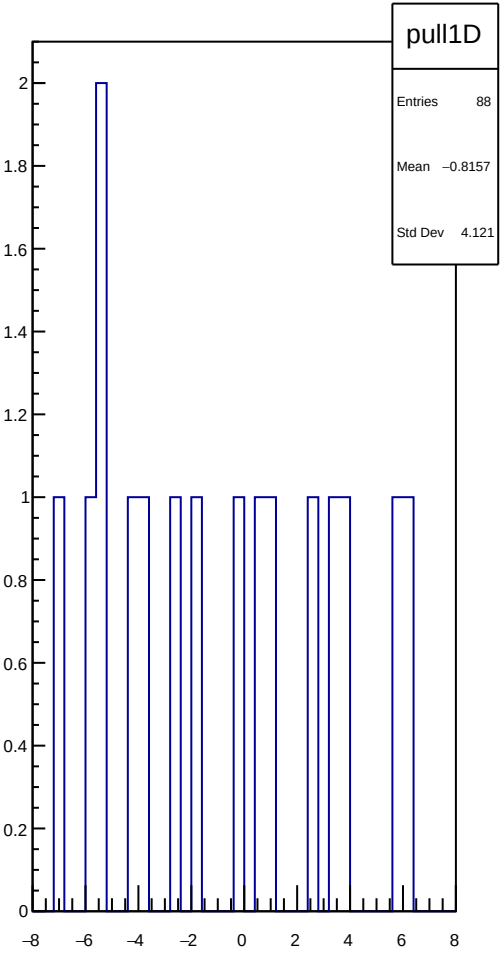

yield_bpm4acX_rms vs run
χ² / ndf 3.028e+04 / 87
p0 0.05207 ± 4.038e–05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

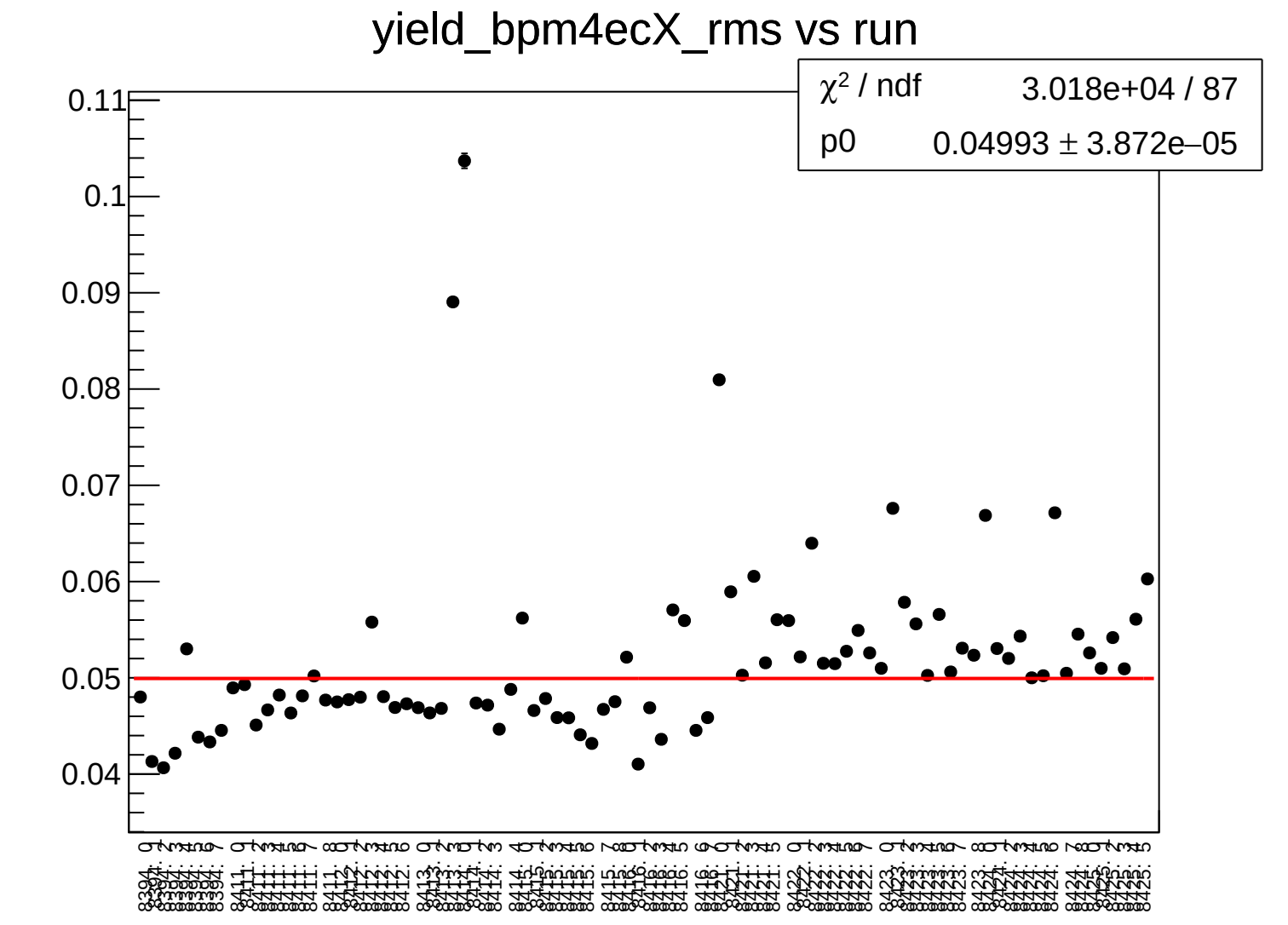

yield_bpm4acY_mean vs run
χ² / ndf 6.537e+04 / 87
p0 0.5051 ± 1.905e−05
0.52
0.515
0.51
0.505
0.5
0.495
0.49
0.485
pull
Entries 88
Mean 7817
Std Dev 0
60
40
20
0
−20
−40
−60

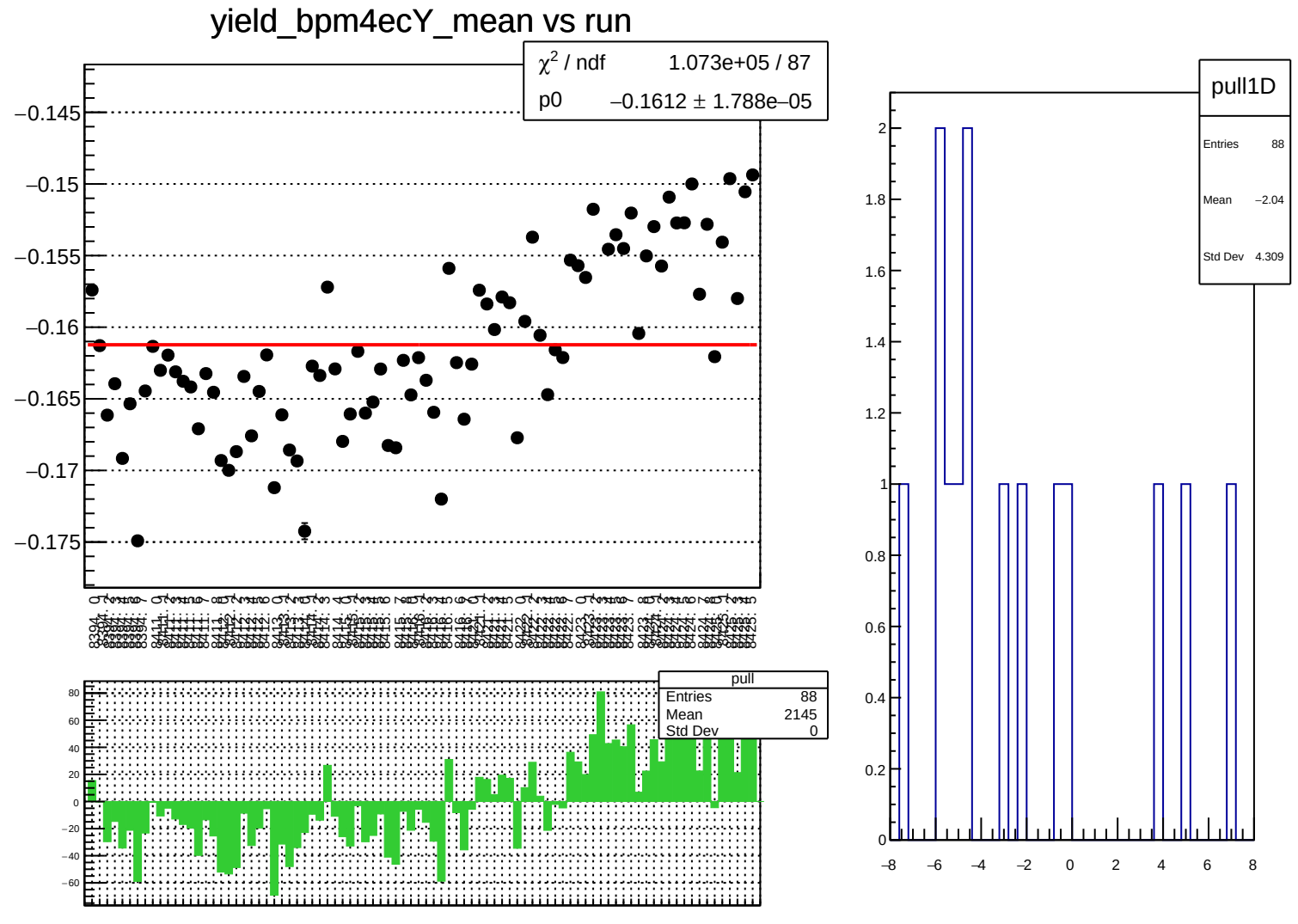

pull1D
Entries 88
Mean −0.06518
Std Dev 4.771
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

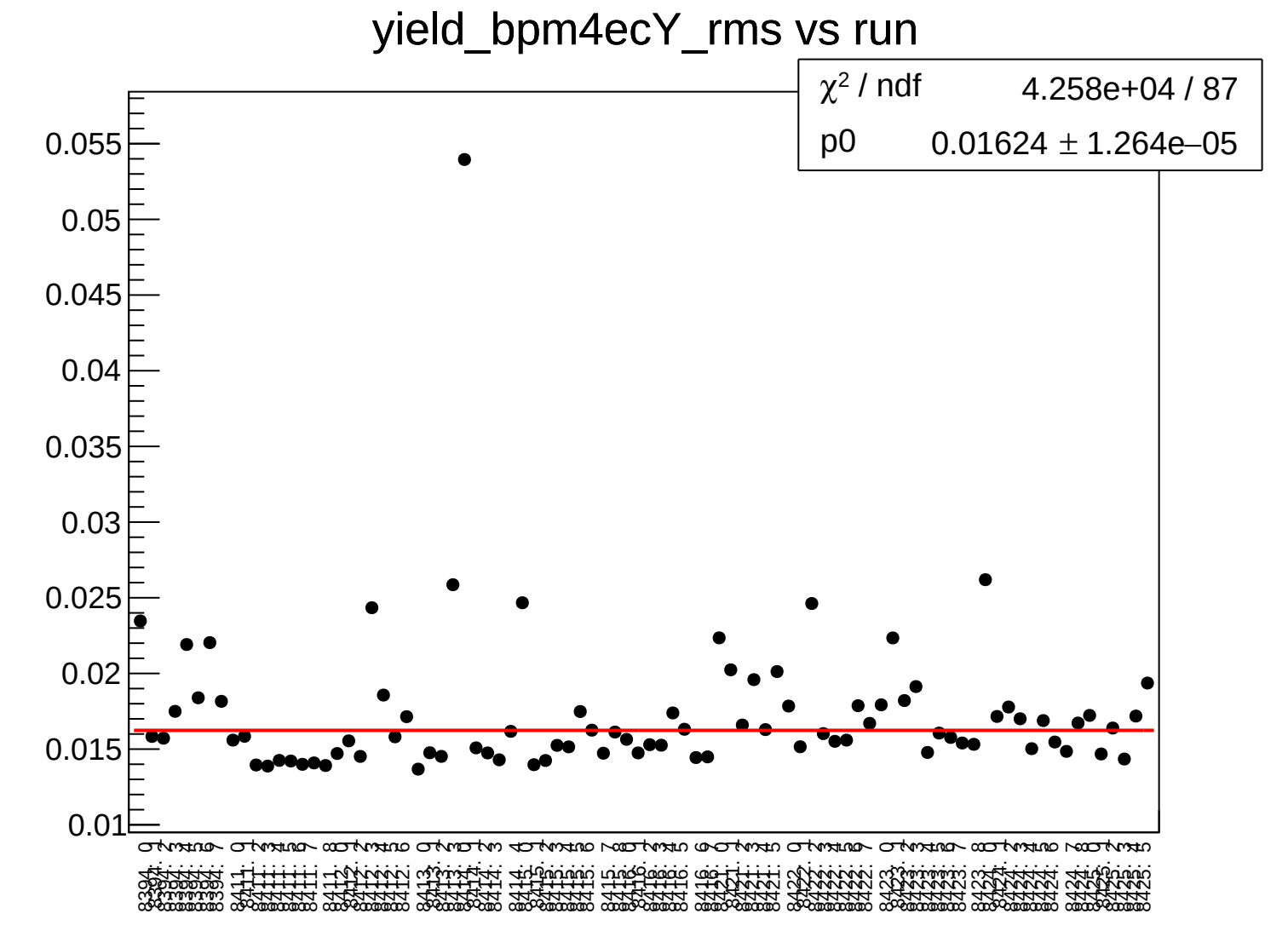

yield_bpm4acY_rms vs run
χ² / ndf 4.407e+04 / 87
p0 0.0173 ± 1.347e−05
0.06
0.05
0.04
0.03
0.02
0.01

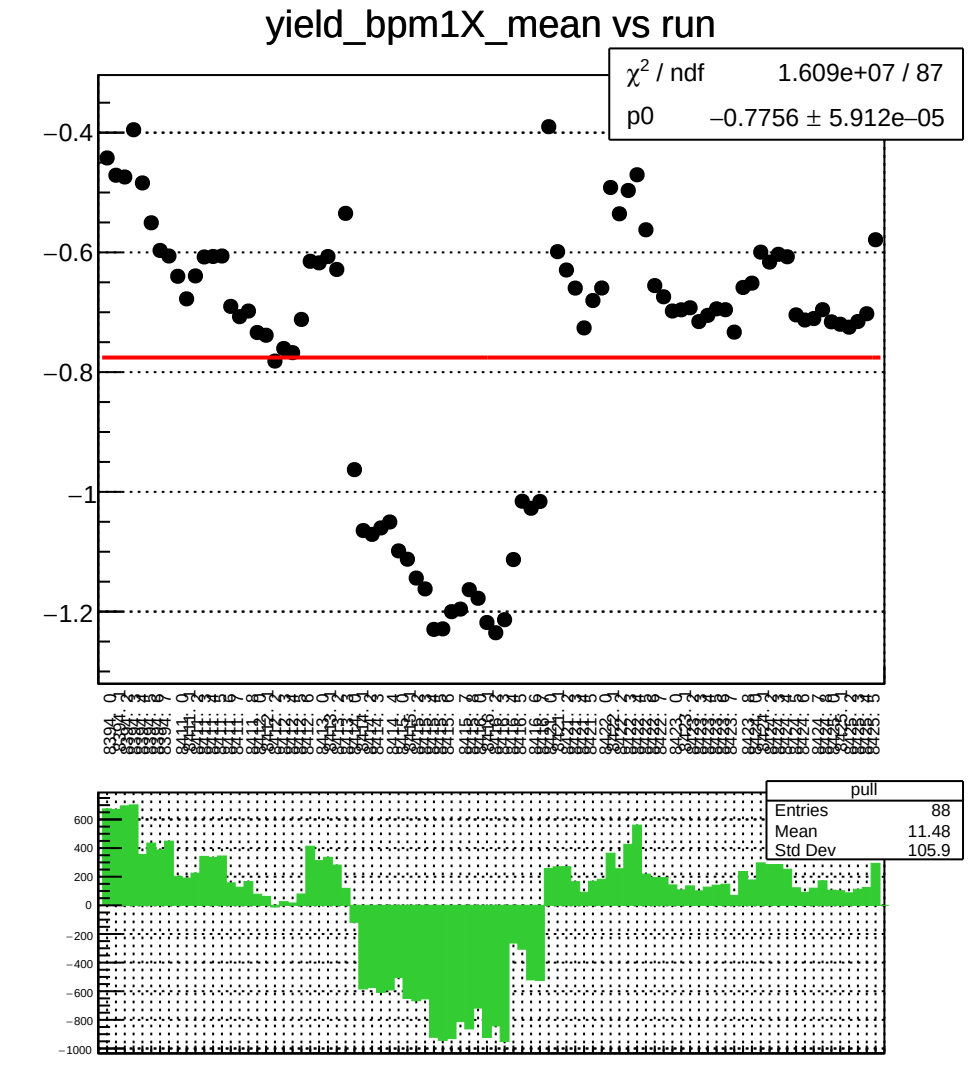

yield_bpm4ecX_mean vs run
χ² / ndf 7.651e+04 / 87
p0 −0.4859 ± 5.476e−05
−0.44
−0.46
−0.48
−0.5
−0.52
−0.54
pull
Entries 88
Mean 320
Std Dev 0
100
80
60
40
20
0
−20
−40
−60

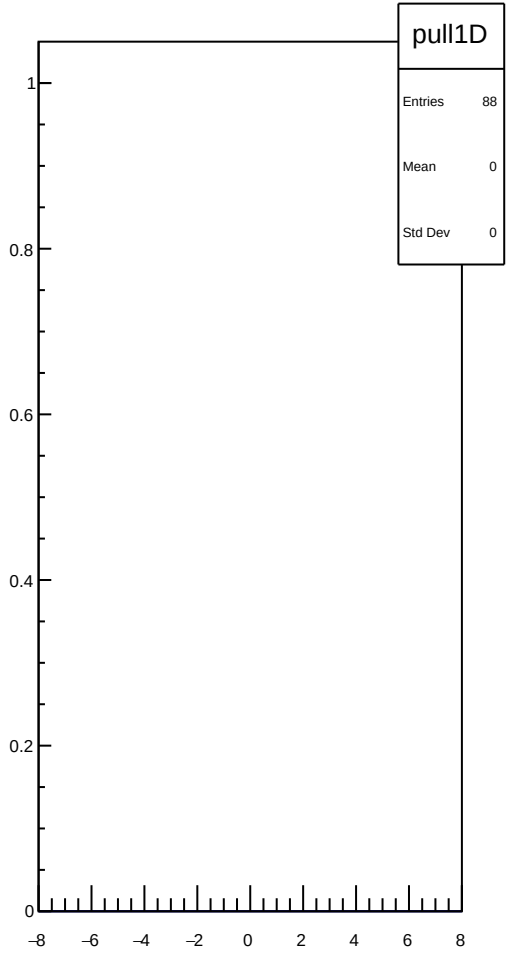

pull1D
Entries 88
Mean −0.8157
Std Dev 4.121
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

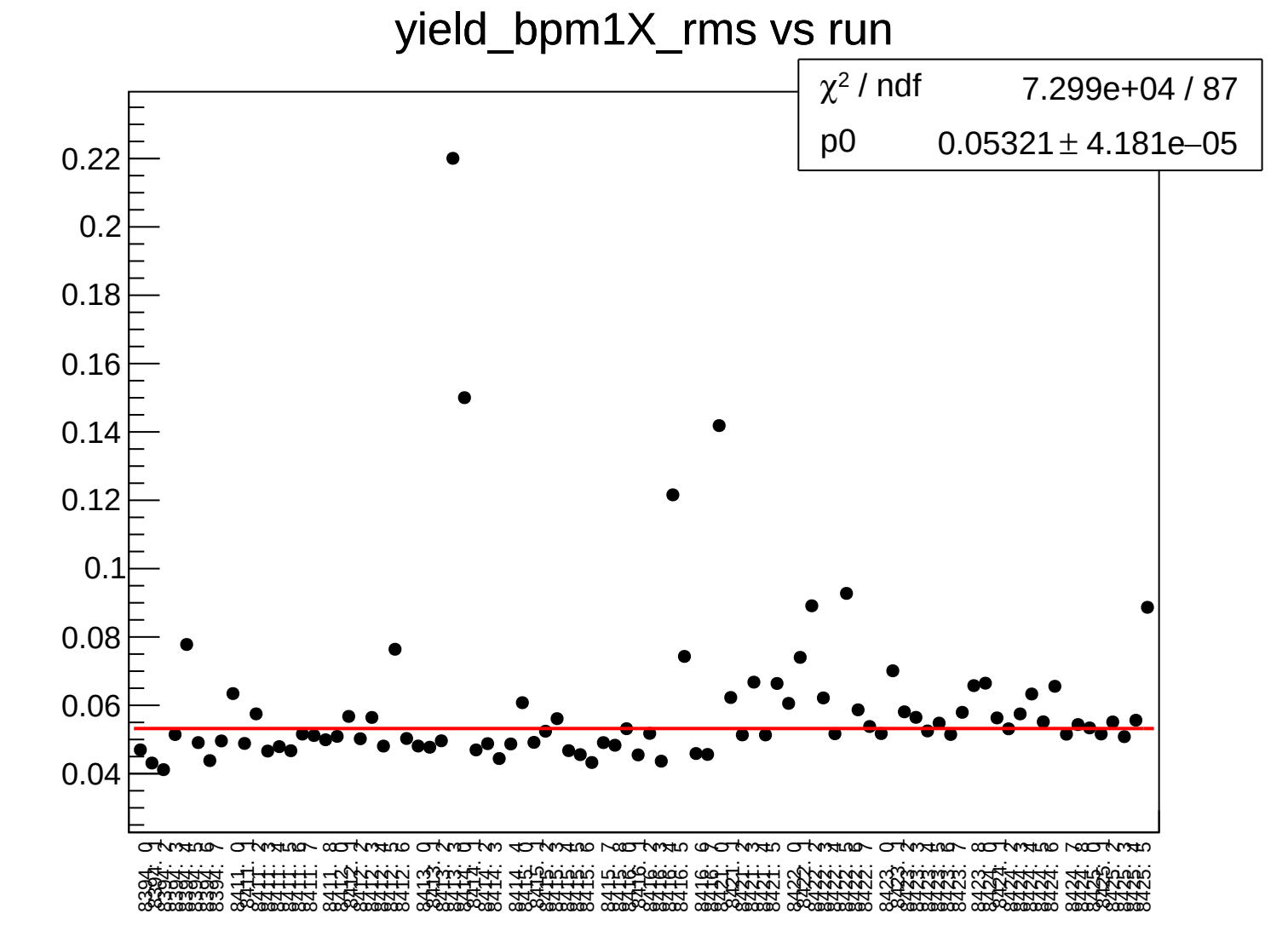

yield_bpm4ecX_rms vs run
χ² / ndf 3.018e+04 / 87
p0 0.04993 ± 3.872e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

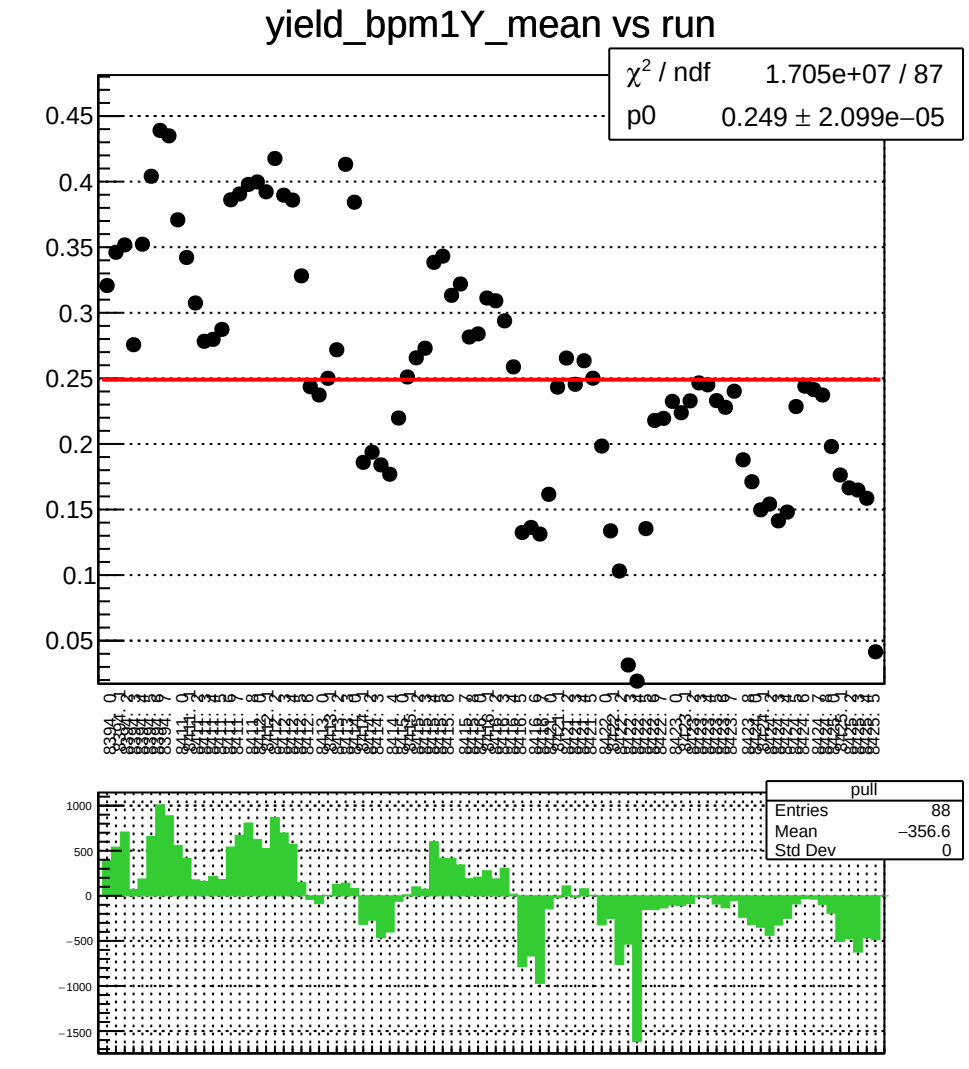

yield_bpm4ecY_mean vs run
χ² / ndf 1.073e+05 / 87
p0 −0.1612 ± 1.788e−05
−0.145
−0.15
−0.155
−0.16
−0.165
−0.17
−0.175
pull
Entries 88
Mean 2145
Std Dev 0
80
60
40
20
0
−20
−40
−60
pull1D
Entries 88
Mean −2.04
Std Dev 4.309
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

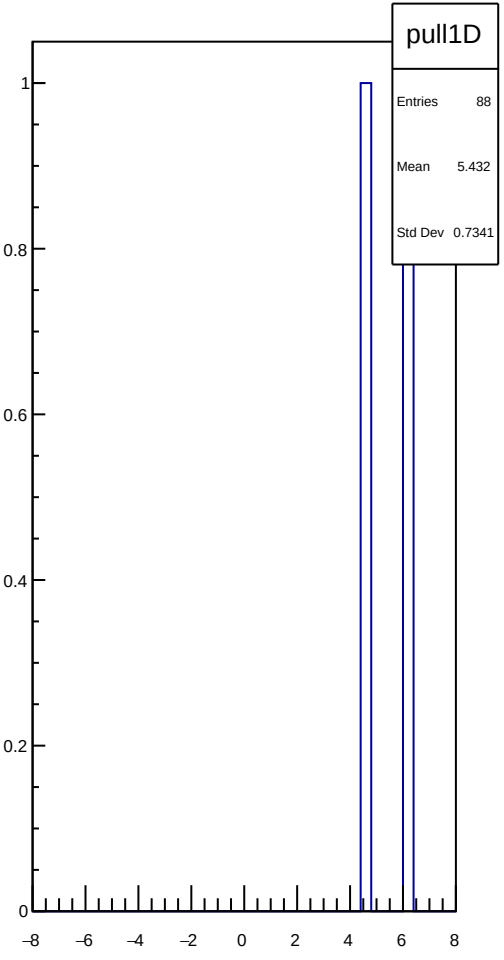

yield_bpm4ecY_rms vs run
χ² / ndf 4.258e+04 / 87
p0 0.01624 ± 1.264e−05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

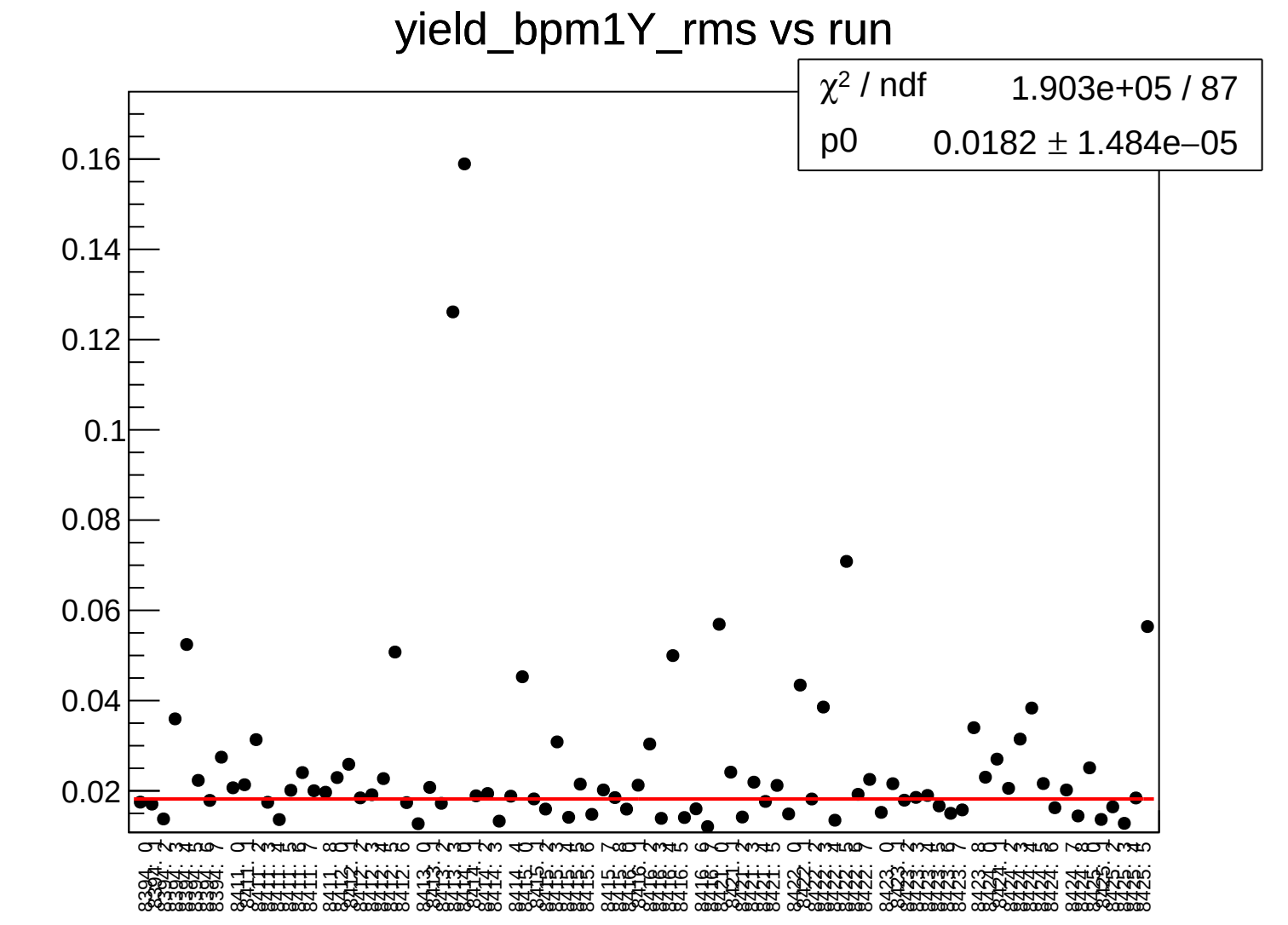

yield_bpm1X_mean vs run
χ² / ndf 1.609e+07 / 87
p0 −0.7756 ± 5.912e−05
−0.4
−0.6
−0.8
−1
−1.2
pull
Entries 88
Mean 11.48
Std Dev 105.9
600
400
200
0
−200
−400
−600
−800
−1000

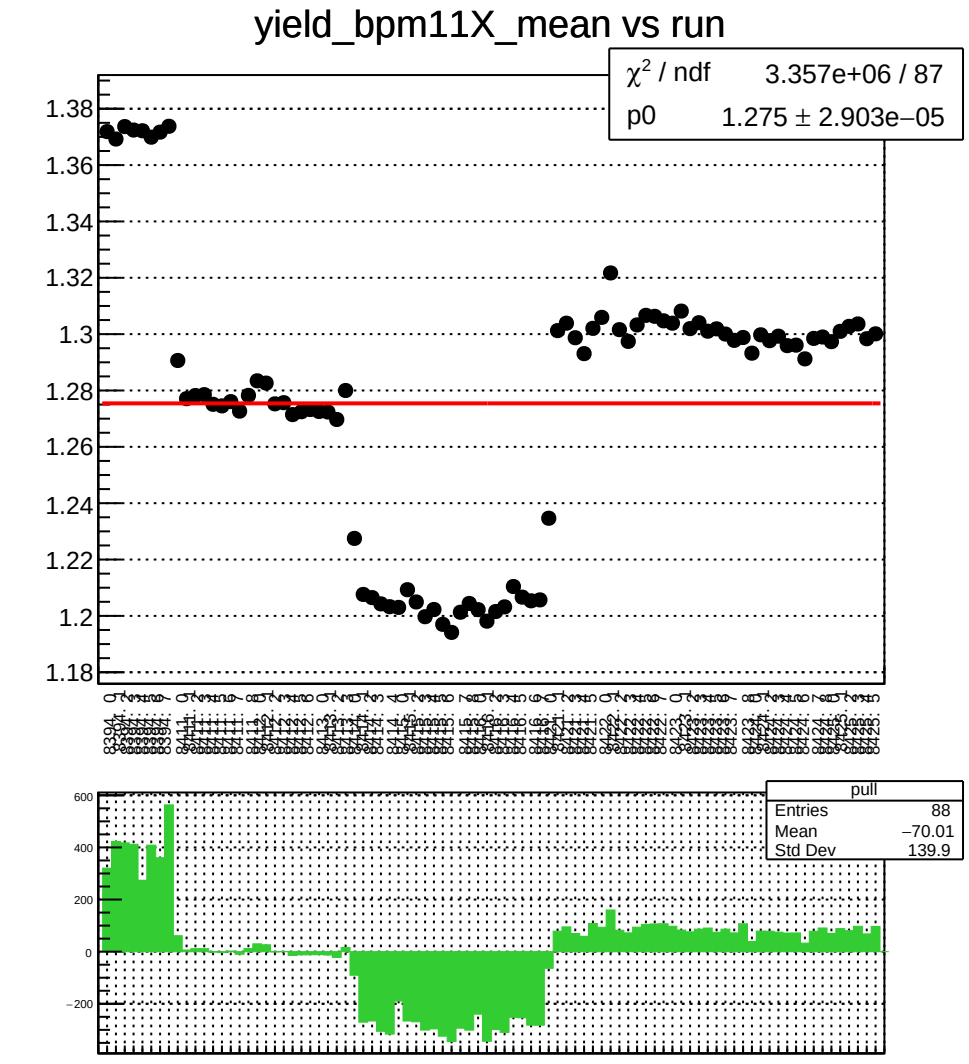

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

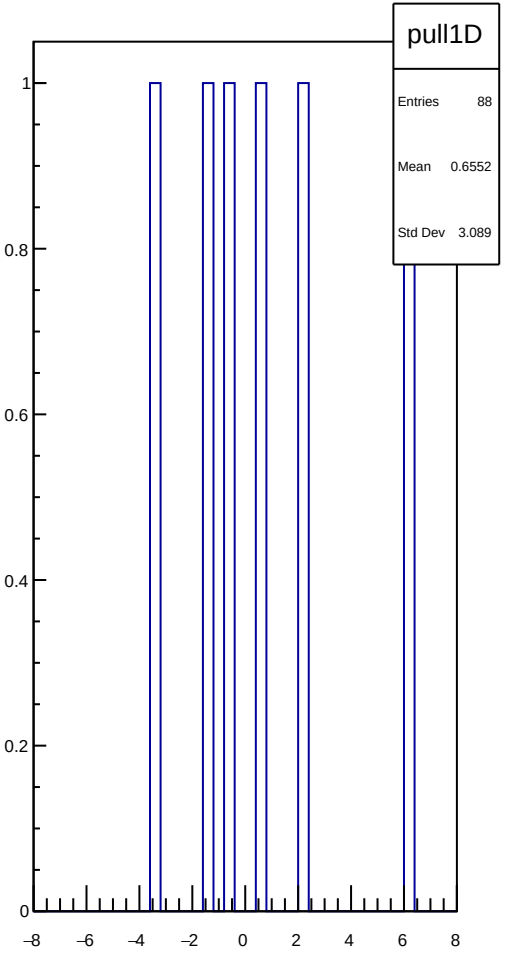

yield_bpm1X_rms vs run
χ² / ndf 7.299e+04 / 87
p0 0.05321 ± 4.181e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

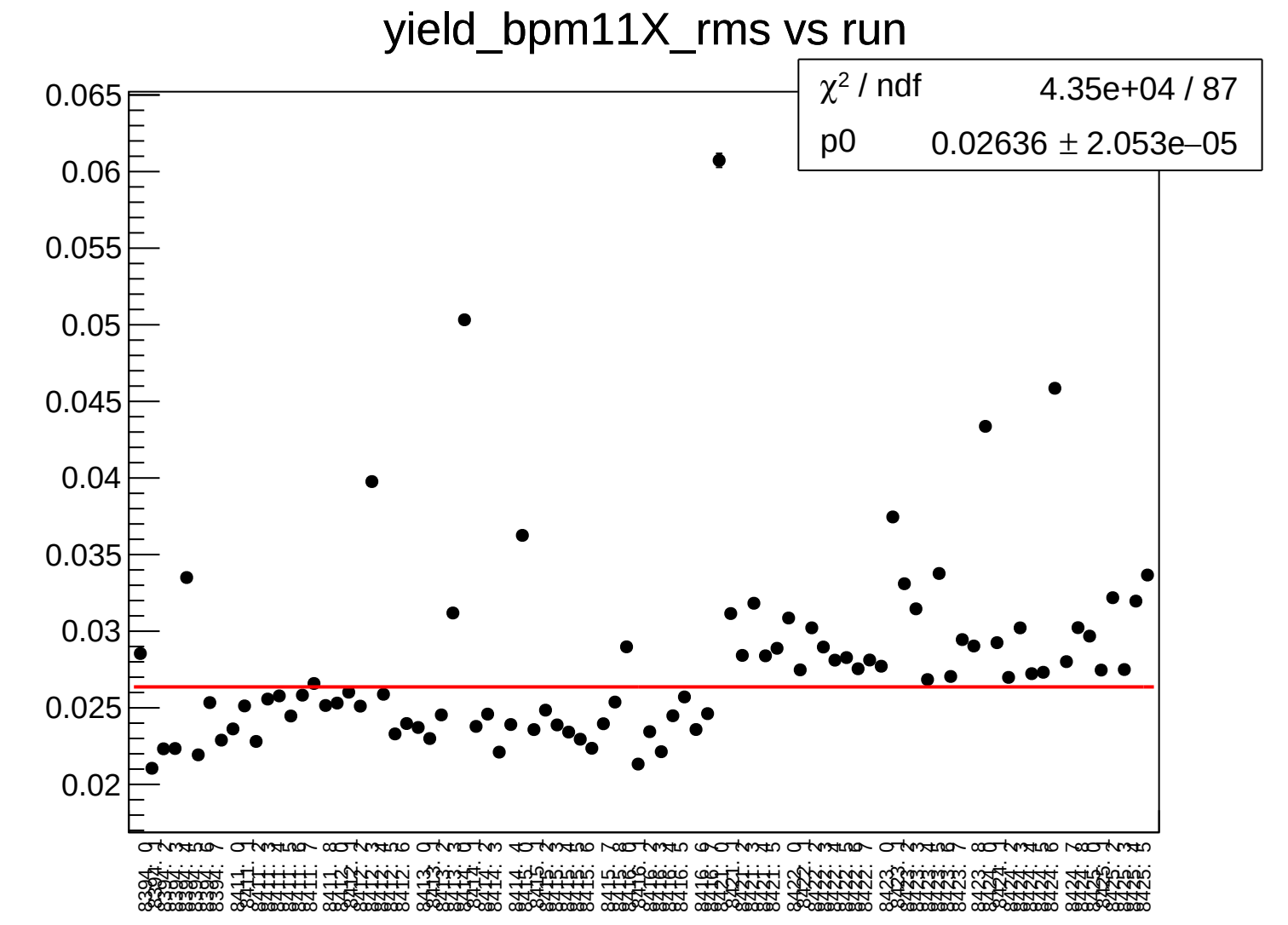

yield_bpm1Y_mean vs run
χ² / ndf 1.705e+07 / 87
p0 0.249 ± 2.099e−05
pull
Entries 88
Mean −356.6
Std Dev 0

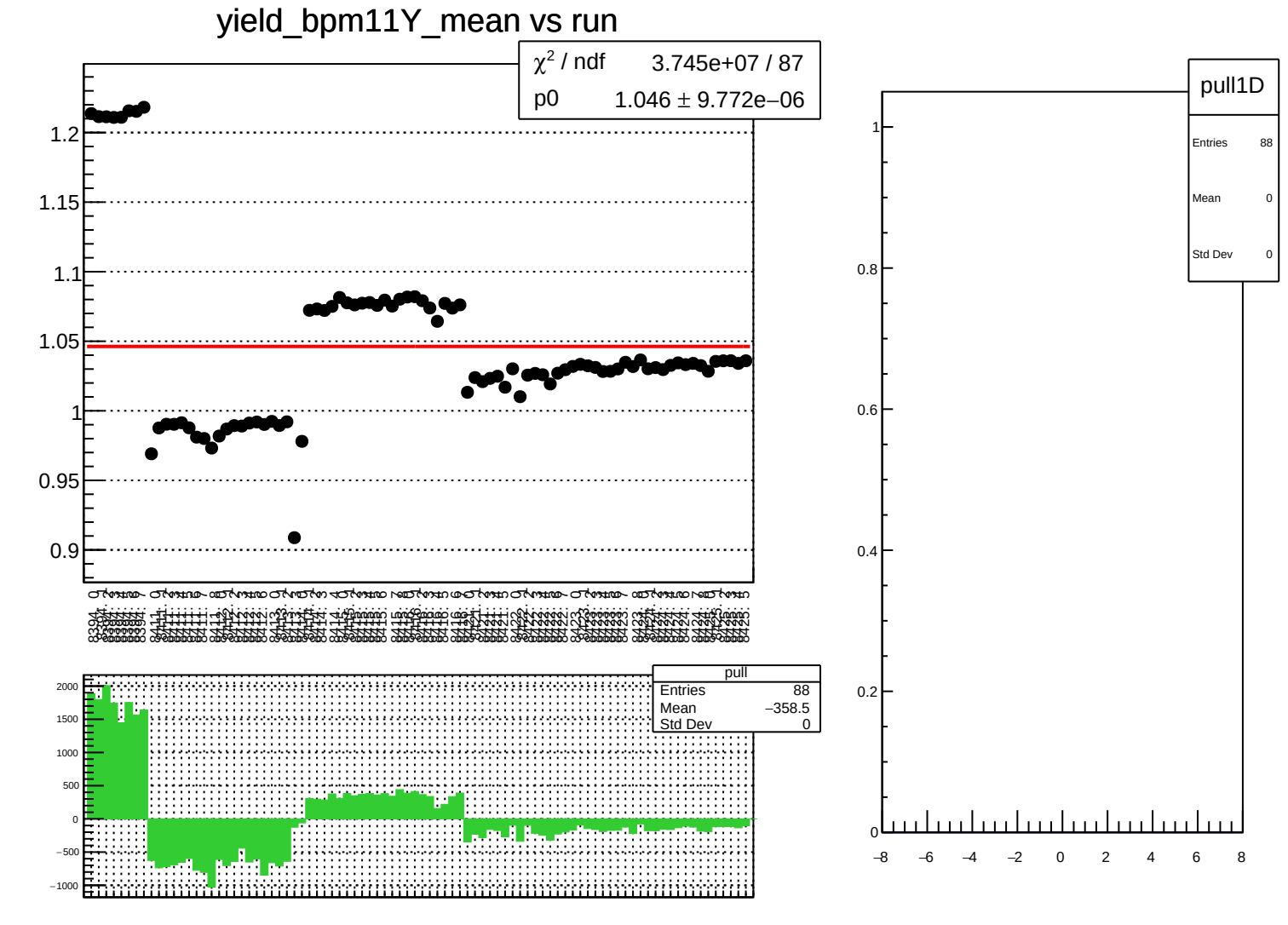

pull1D
Entries 88
Mean 5.432
Std Dev 0.7341

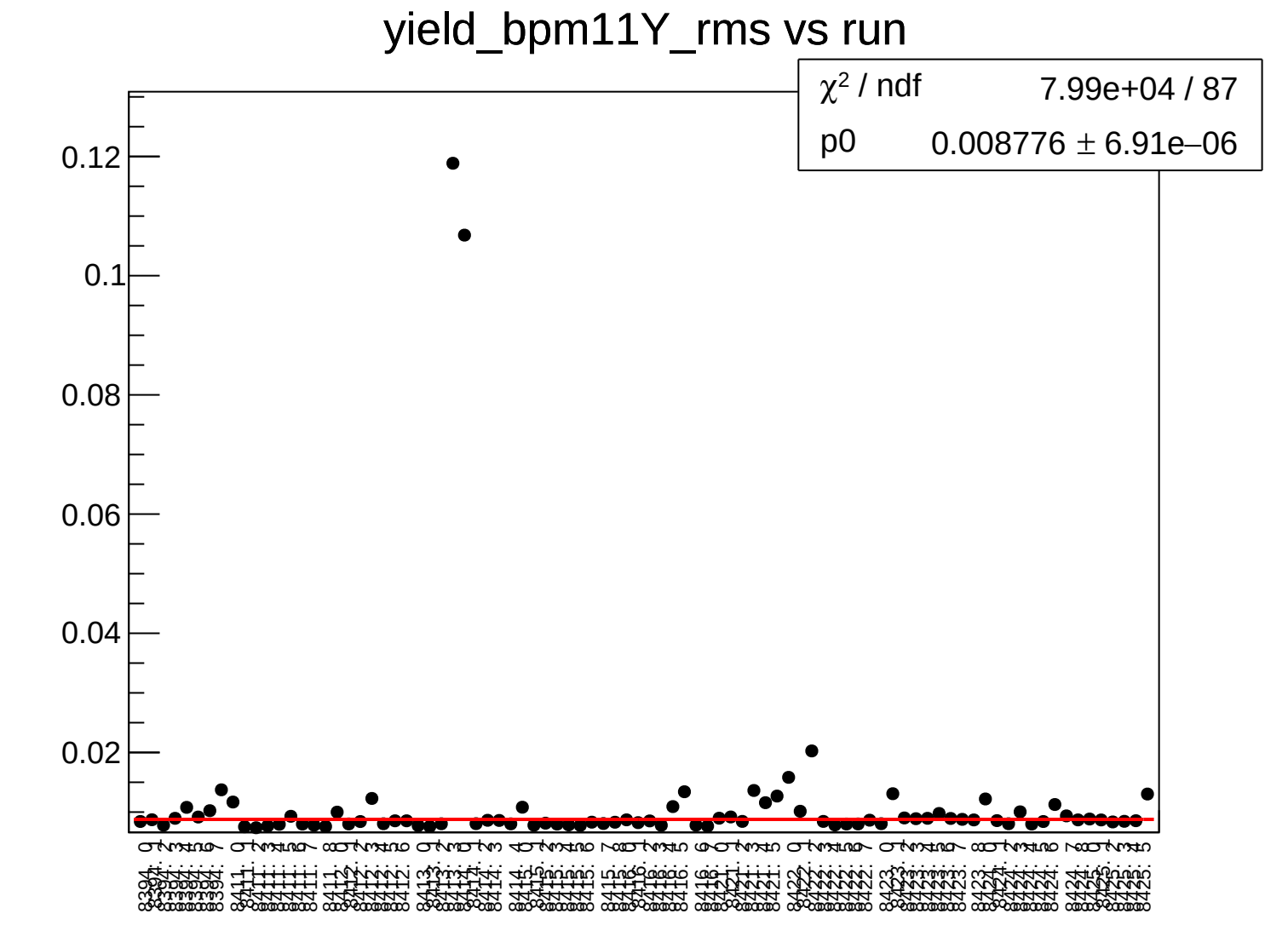

yield_bpm1Y_rms vs run
χ² / ndf 1.903e+05 / 87
p0 0.0182 ± 1.484e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

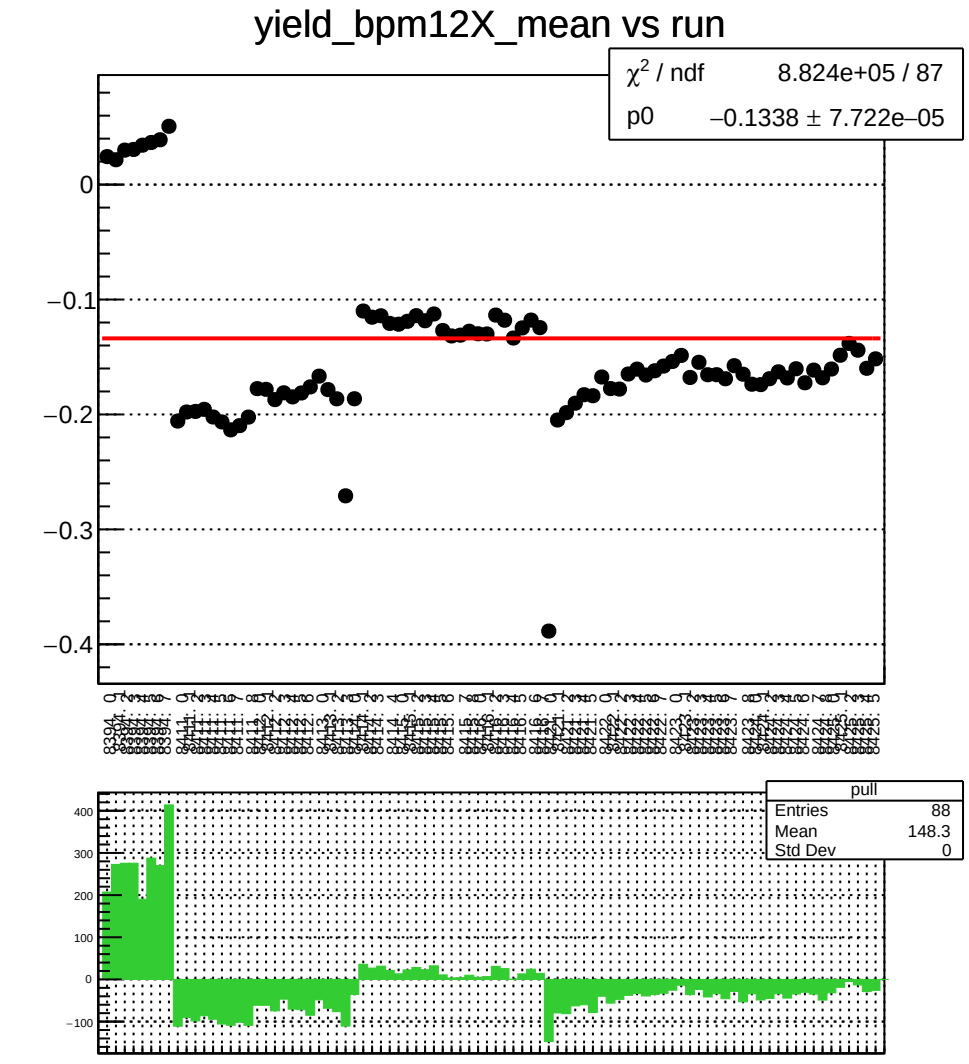

yield_bpm11X_mean vs run
χ² / ndf 3.357e+06 / 87
p0 1.275 ± 2.903e−05
1.38
1.36
1.34
1.32
1.3
1.28
1.26
1.24
1.22
1.2
1.18
pull
Entries 88
Mean −70.01
Std Dev 139.9
600
400
200
0
−200

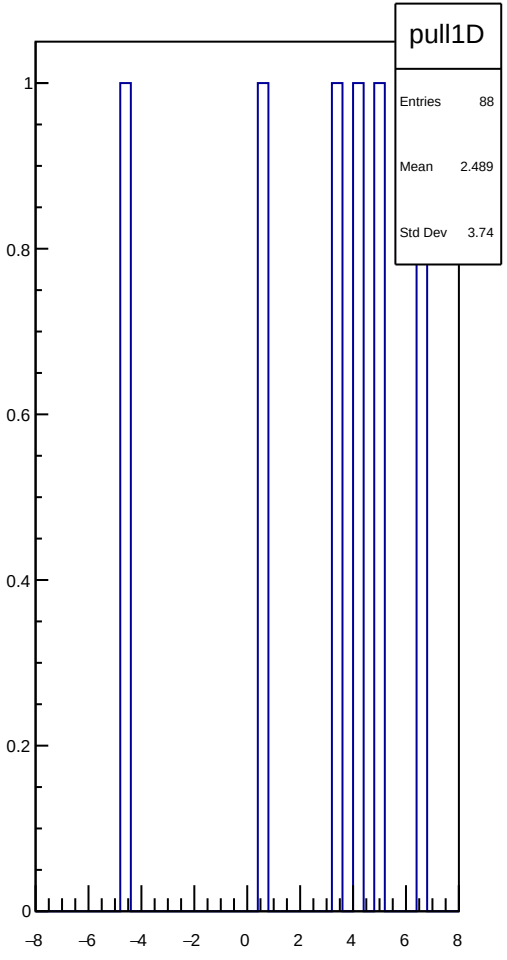

pull1D
Entries 88
Mean 0.6552
Std Dev 3.089
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

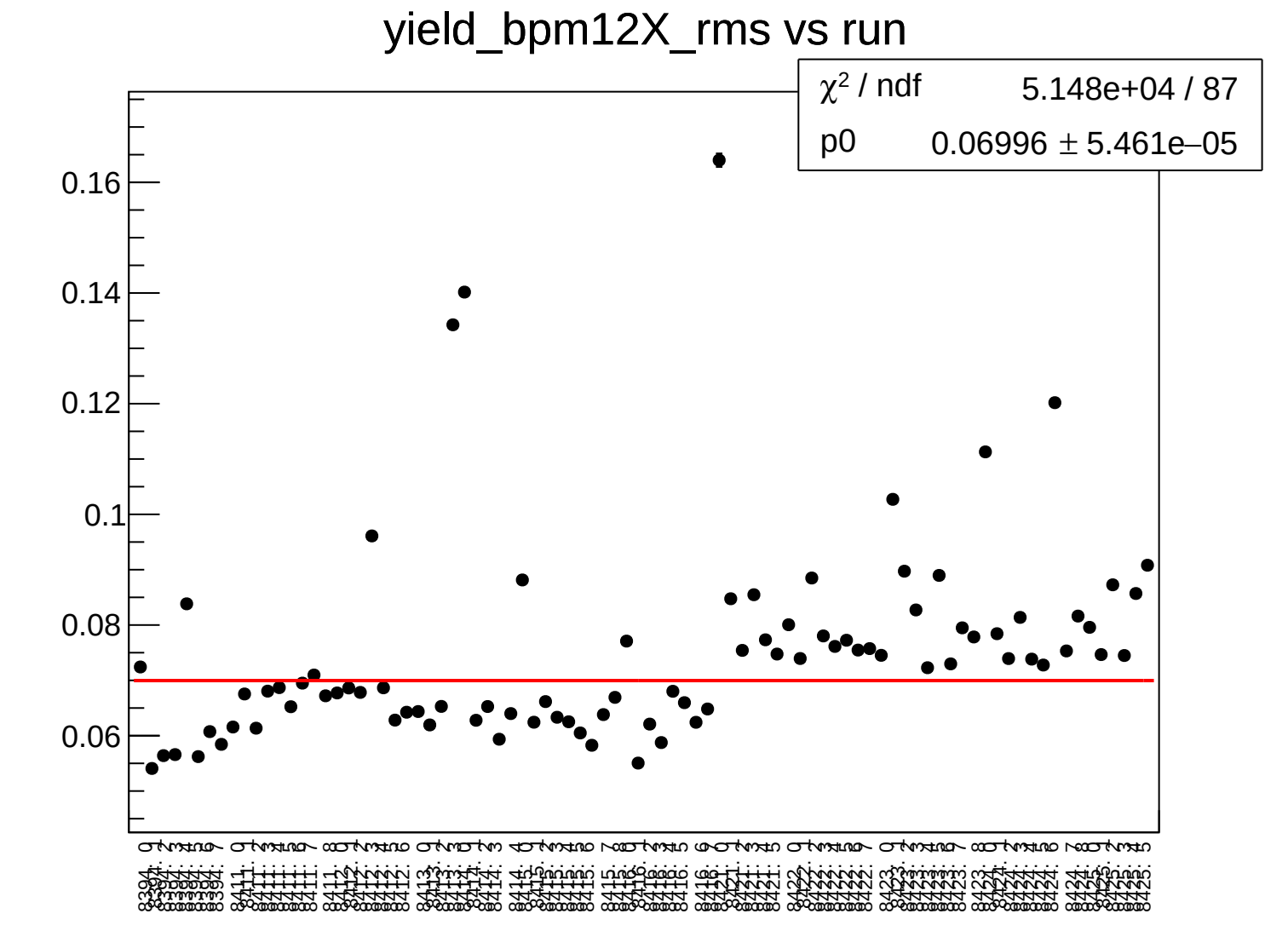

yield_bpm11X_rms vs run
χ² / ndf 4.35e+04 / 87
p0 0.02636 ± 2.053e−05
0.065
0.06
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02

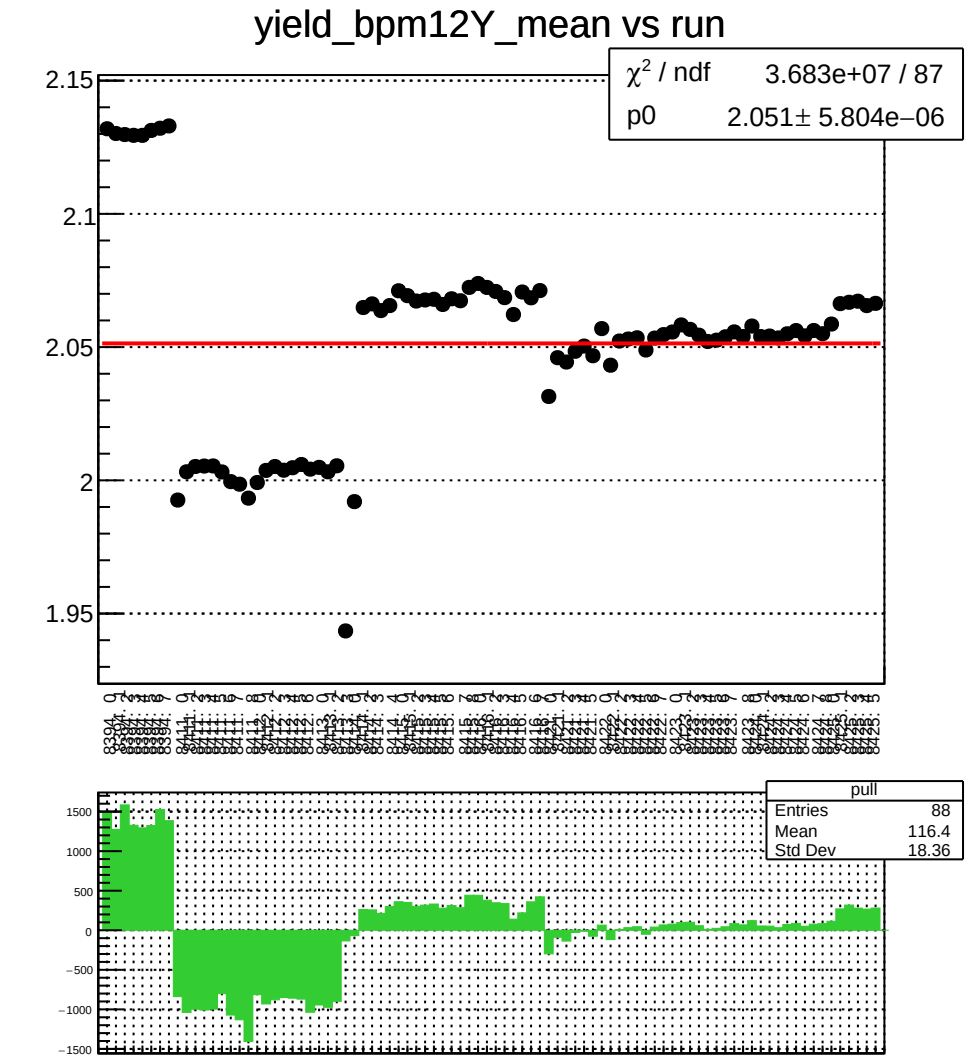

yield_bpm11Y_mean vs run
χ² / ndf 3.745e+07 / 87
p0 1.046 ± 9.772e−06
1.2
1.15
1.1
1.05
1
0.95
0.9
pull
Entries 88
Mean −358.5
Std Dev 0
2000
1500
1000
500
0
−500
−1000
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

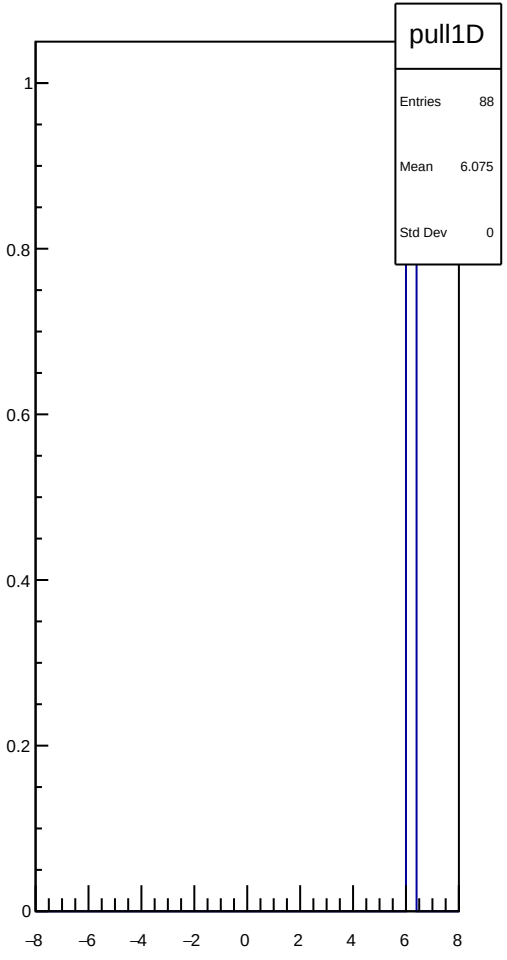

yield_bpm11Y_rms vs run
χ² / ndf 7.99e+04 / 87
p0 0.008776 ± 6.91e–06
0.12
0.1
0.08
0.06
0.04
0.02

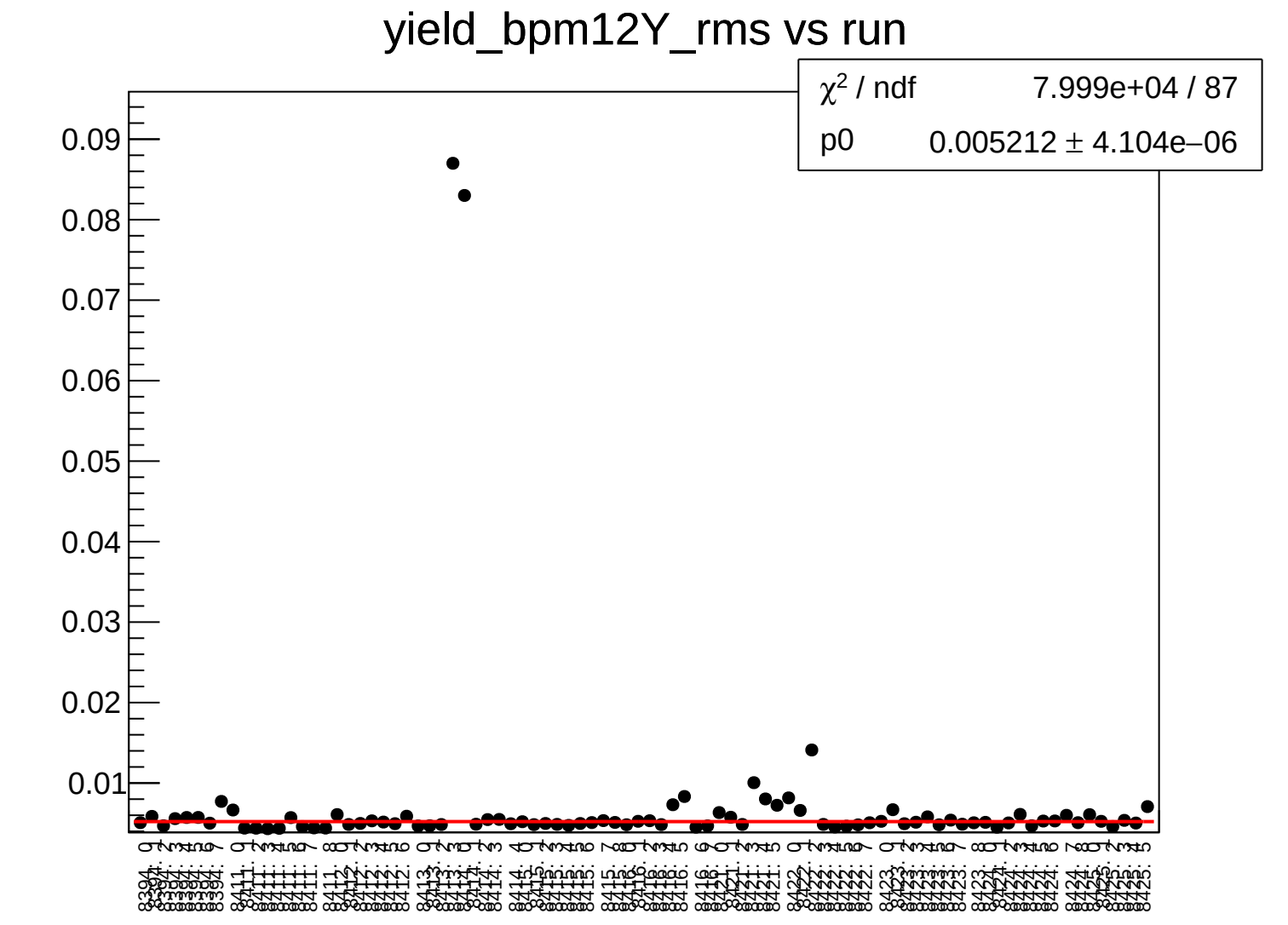

yield_bpm12X_mean vs run
χ² / ndf 8.824e+05 / 87
p0 −0.1338 ± 7.722e−05
0
−0.1
−0.2
−0.3
−0.4
pull
Entries 88
Mean 148.3
Std Dev 0
400
300
200
100
0
−100

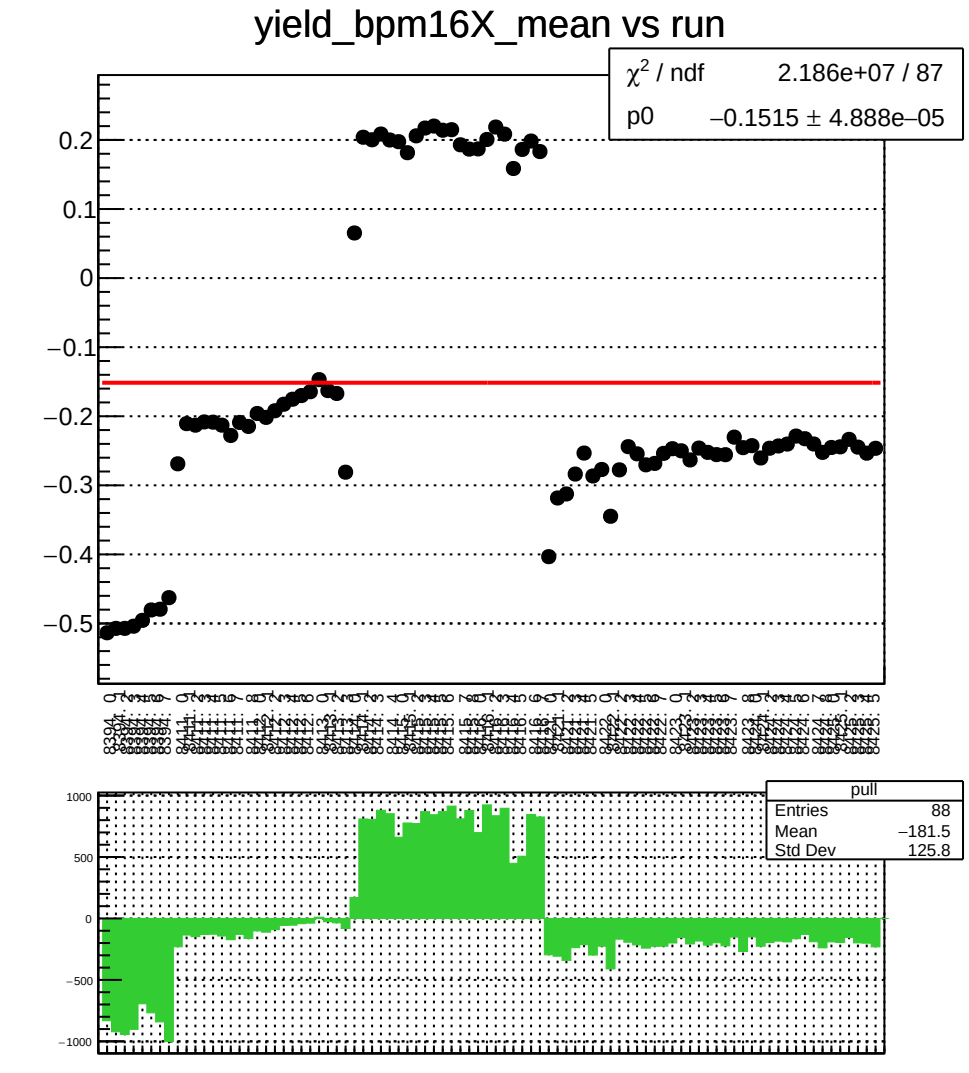

pull1D
Entries 88
Mean 2.489
Std Dev 3.74
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

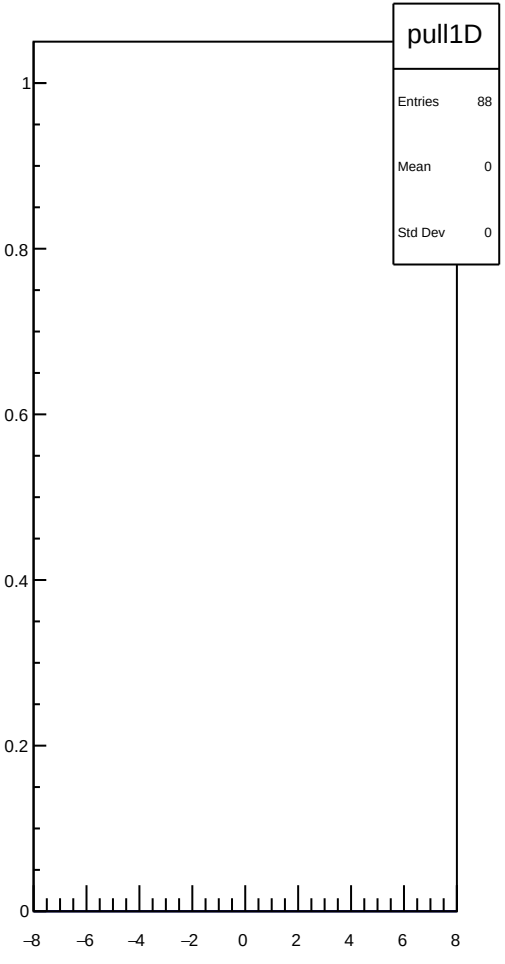

yield_bpm12X_rms vs run
χ² / ndf 5.148e+04 / 87
p0 0.06996 ± 5.461e–05
0.16
0.14
0.12
0.1
0.08
0.06

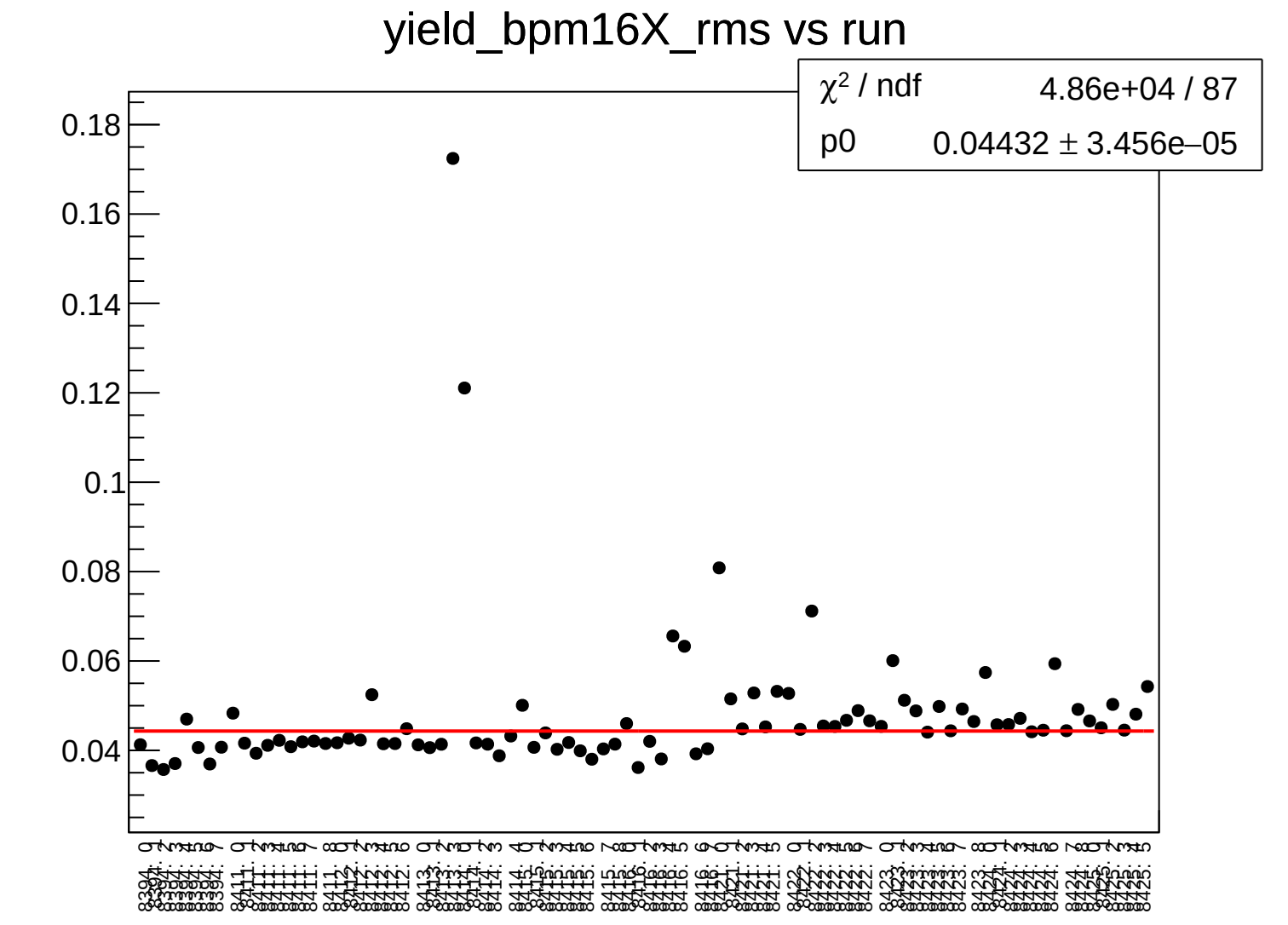

yield_bpm12Y_mean vs run
χ² / ndf 3.683e+07 / 87
p0 2.051± 5.804e−06
2.15
2.1
2.05
2
1.95
pull
Entries 88
Mean 116.4
Std Dev 18.36
1500
1000
500
0
−500
−1000
−1500

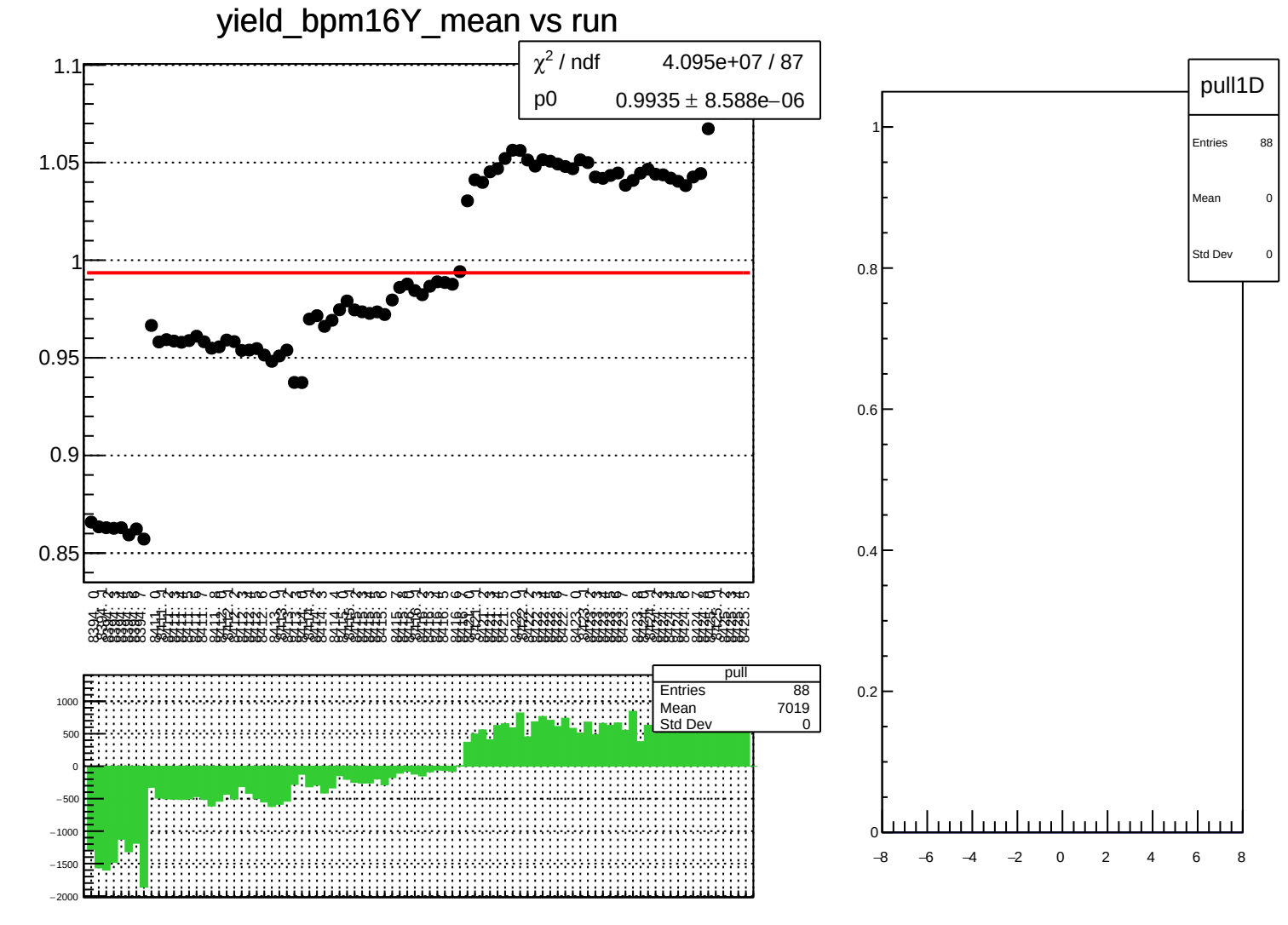

pull1D
Entries 88
Mean 6.075
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

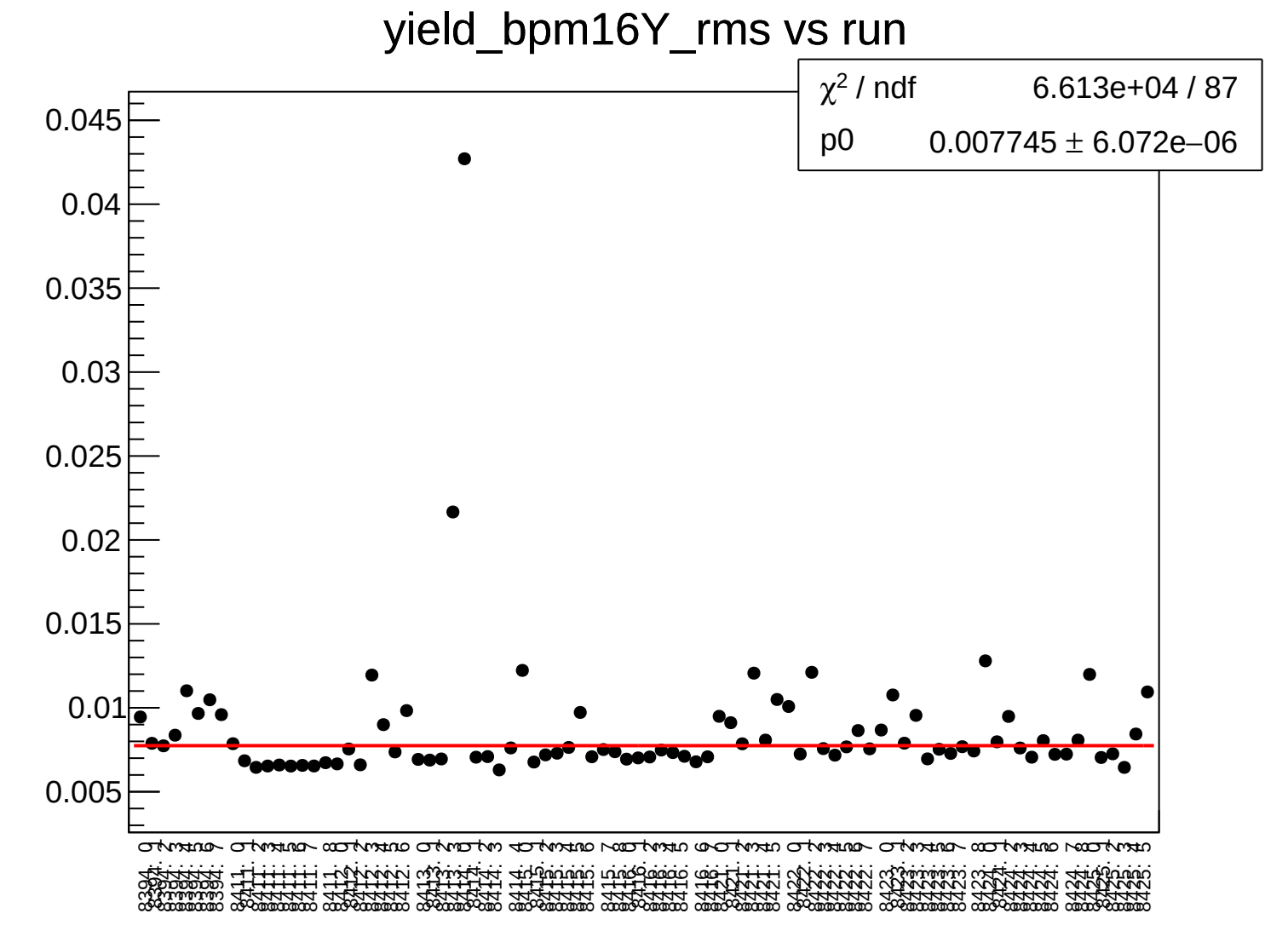

yield_bpm12Y_rms vs run
χ² / ndf 7.999e+04 / 87
p0 0.005212 ± 4.104e−06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

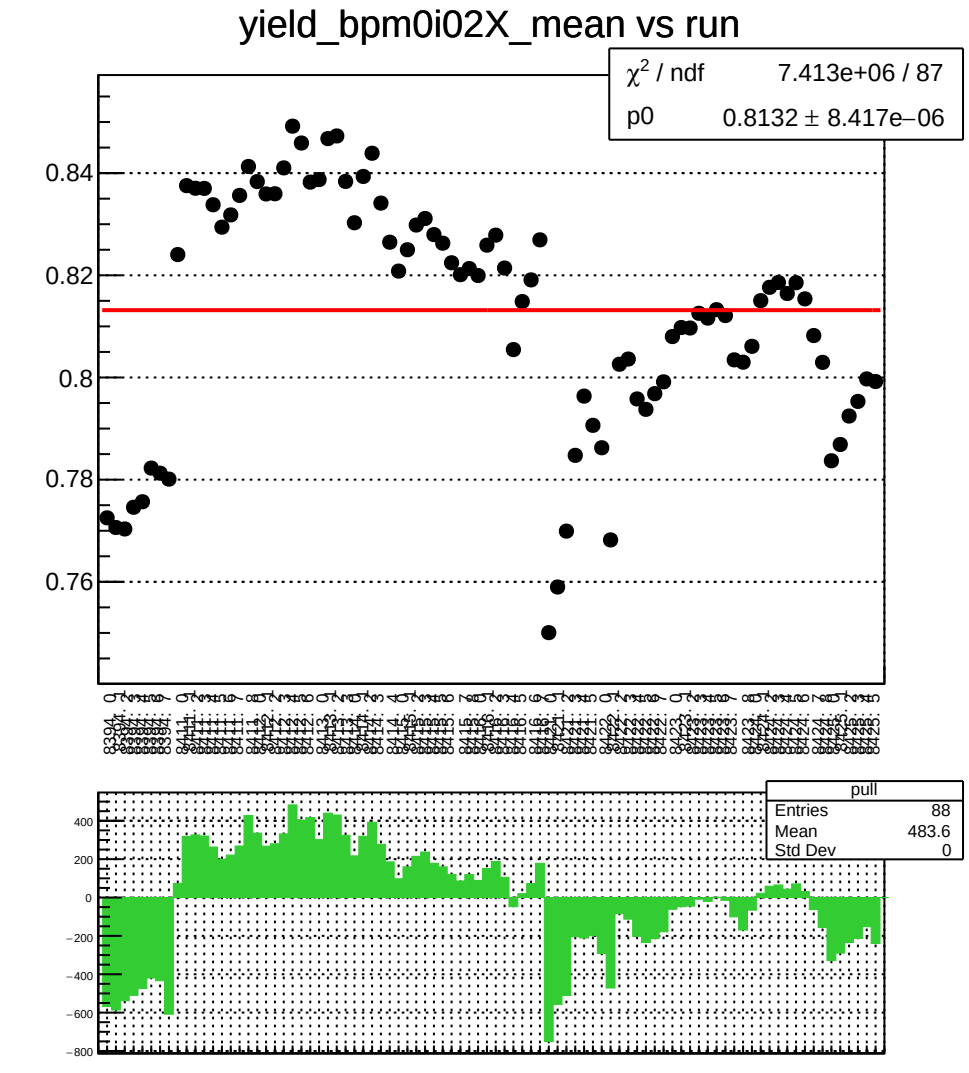

yield_bpm16X_mean vs run
χ² / ndf 2.186e+07 / 87
p0 −0.1515 ± 4.888e−05
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull
Entries 88
Mean −181.5
Std Dev 125.8
1000
500
0
−500
−1000

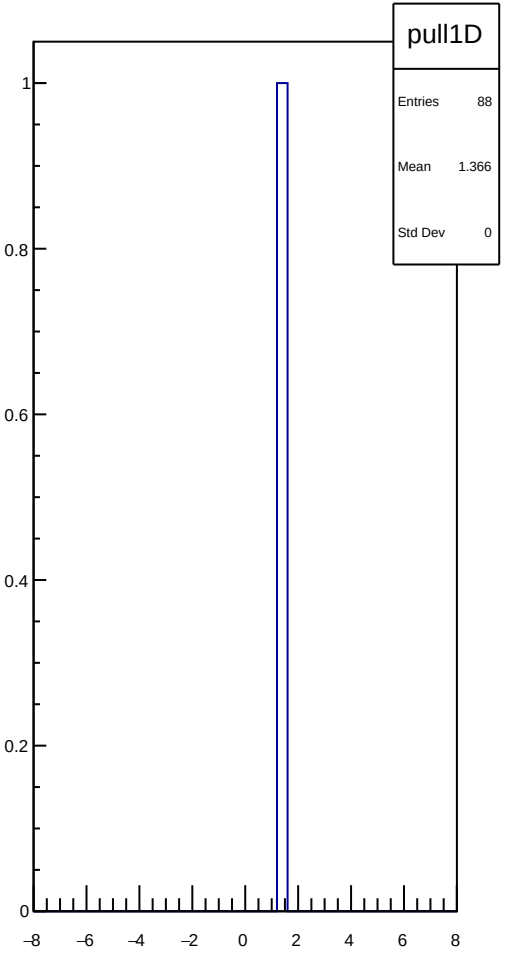

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

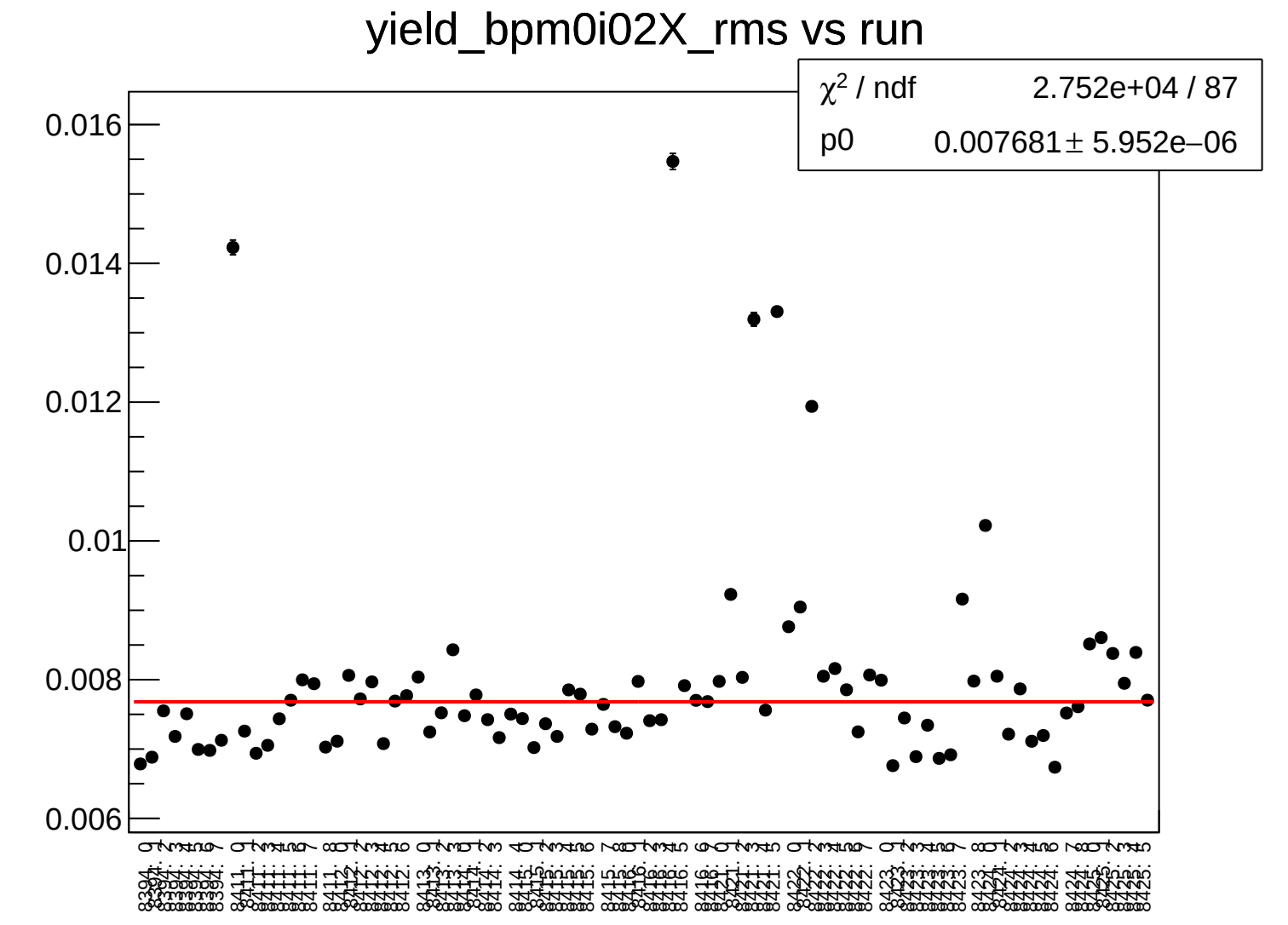

yield_bpm16X_rms vs run
χ² / ndf 4.86e+04 / 87
p0 0.04432 ± 3.456e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

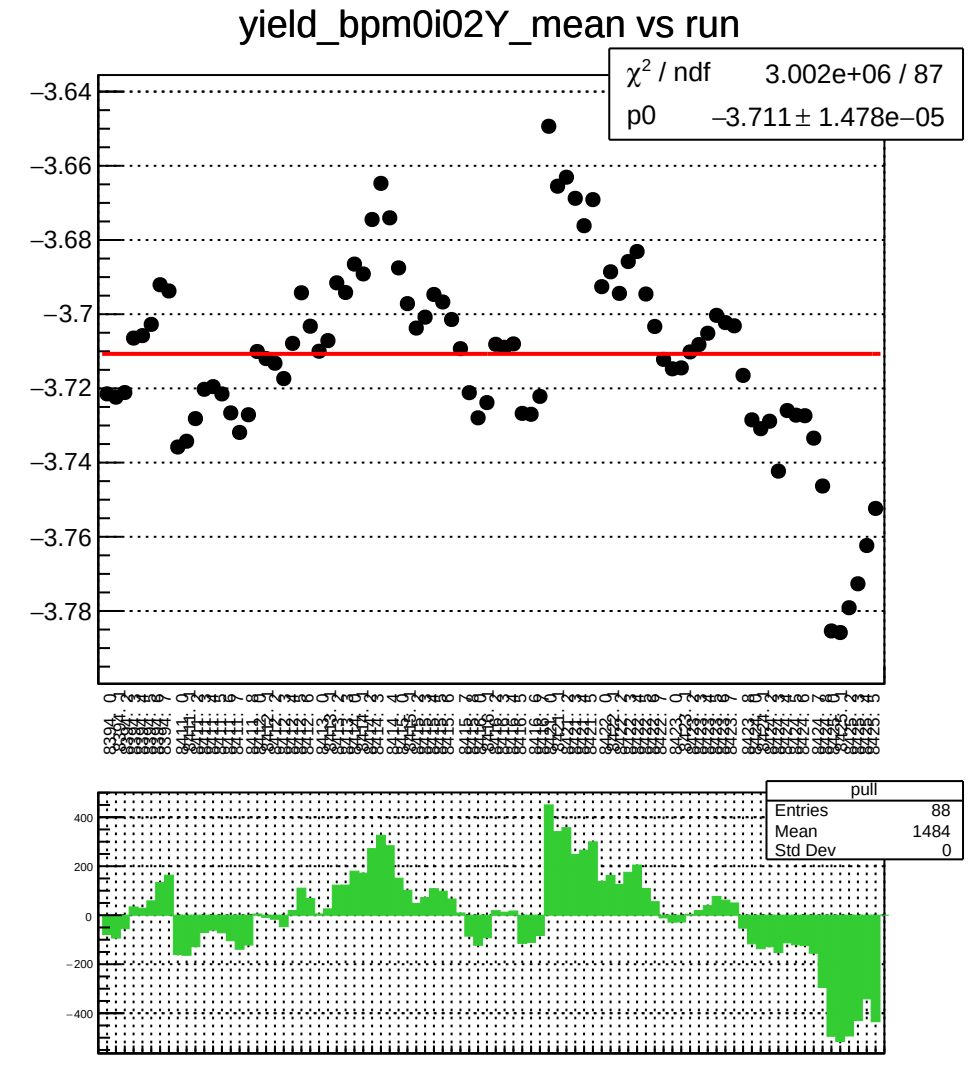

yield_bpm16Y_mean vs run
χ² / ndf 4.095e+07 / 87
p0 0.9935 ± 8.588e−06
1.1
1.05
1
0.95
0.9
0.85
pull
Entries 88
Mean 7019
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

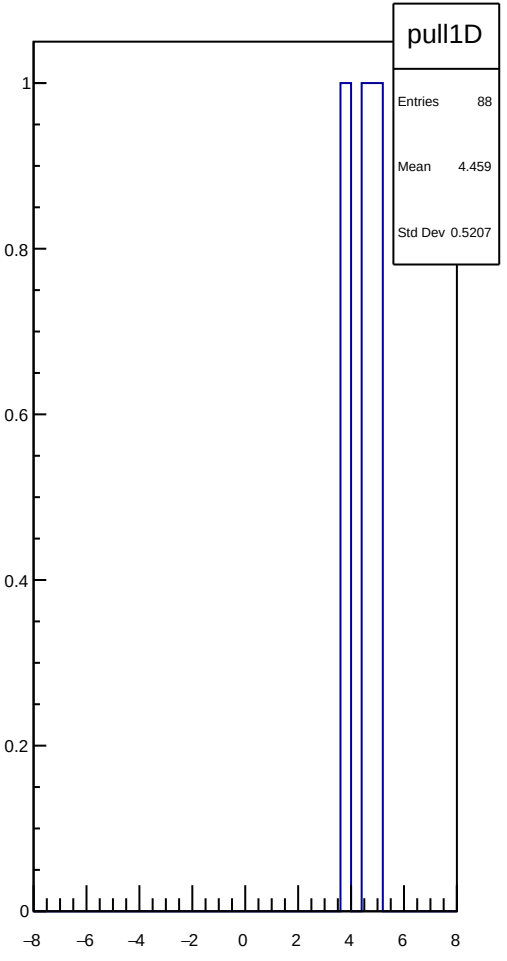

yield_bpm16Y_rms vs run
χ² / ndf 6.613e+04 / 87
p0 0.007745 ± 6.072e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

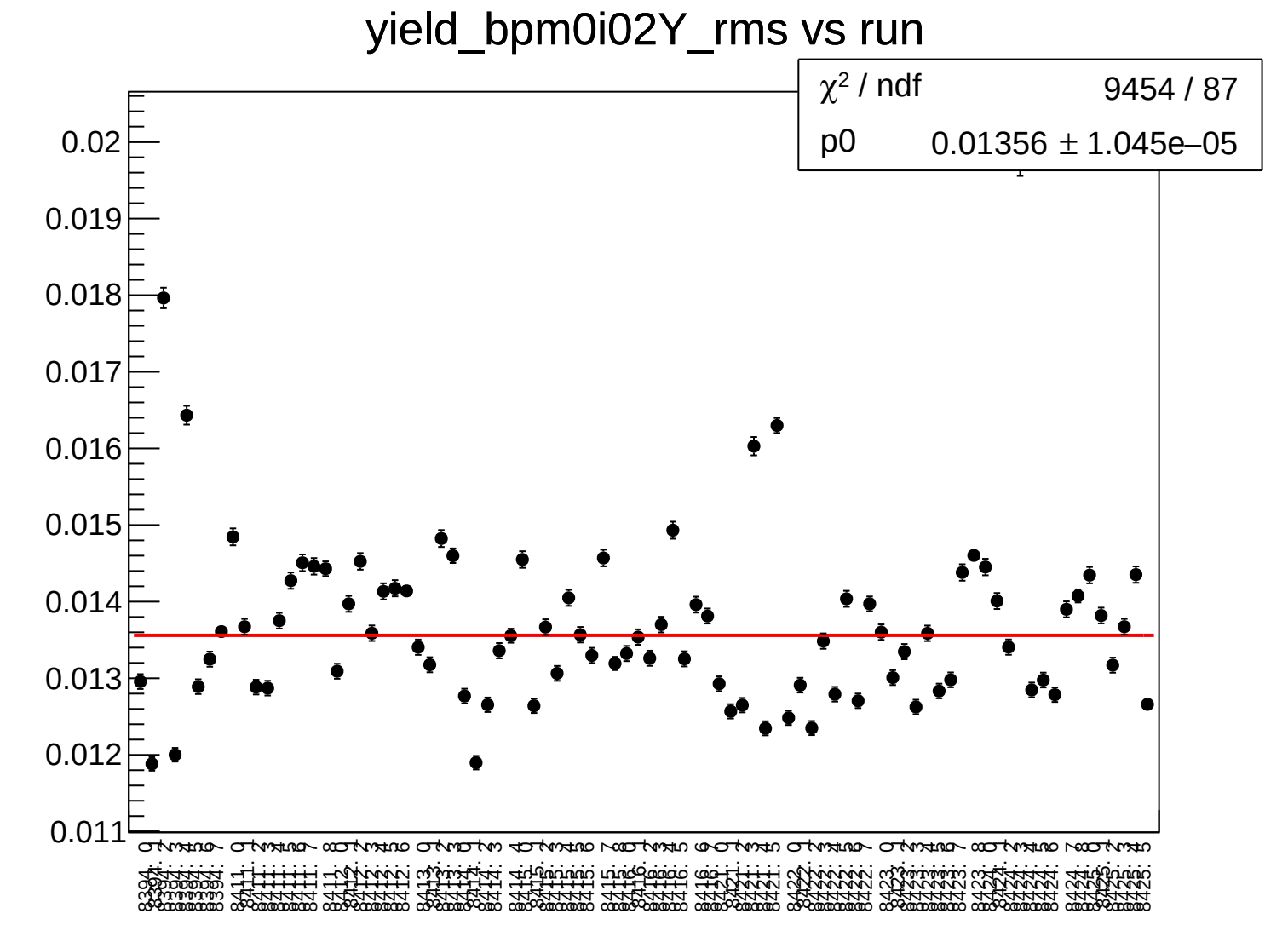

yield_bpm0i02X_mean vs run
χ² / ndf 7.413e+06 / 87
p0 0.8132 ± 8.417e−06
0.84
0.82
0.8
0.78
0.76
pull
Entries 88
Mean 483.6
Std Dev 0
400
200
0
−200
−400
−600
−800

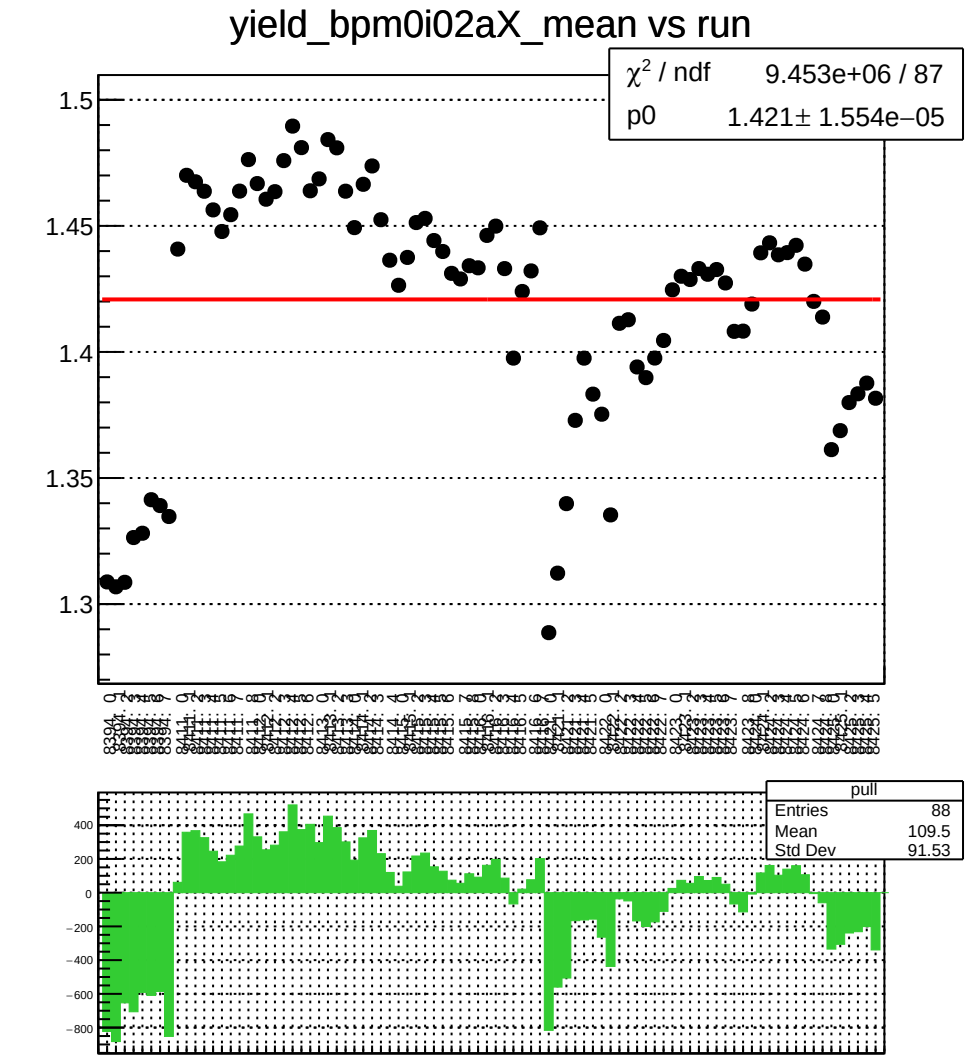

pull1D
Entries 88
Mean 1.366
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

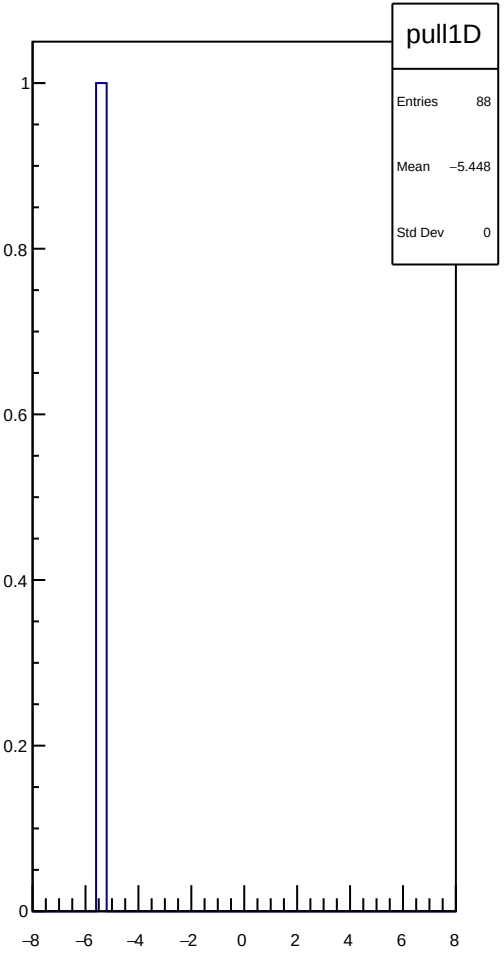

yield_bpm0i02X_rms vs run
χ² / ndf 2.752e+04 / 87
p0 0.007681 ± 5.952e−06
0.016
0.014
0.012
0.01
0.008
0.006

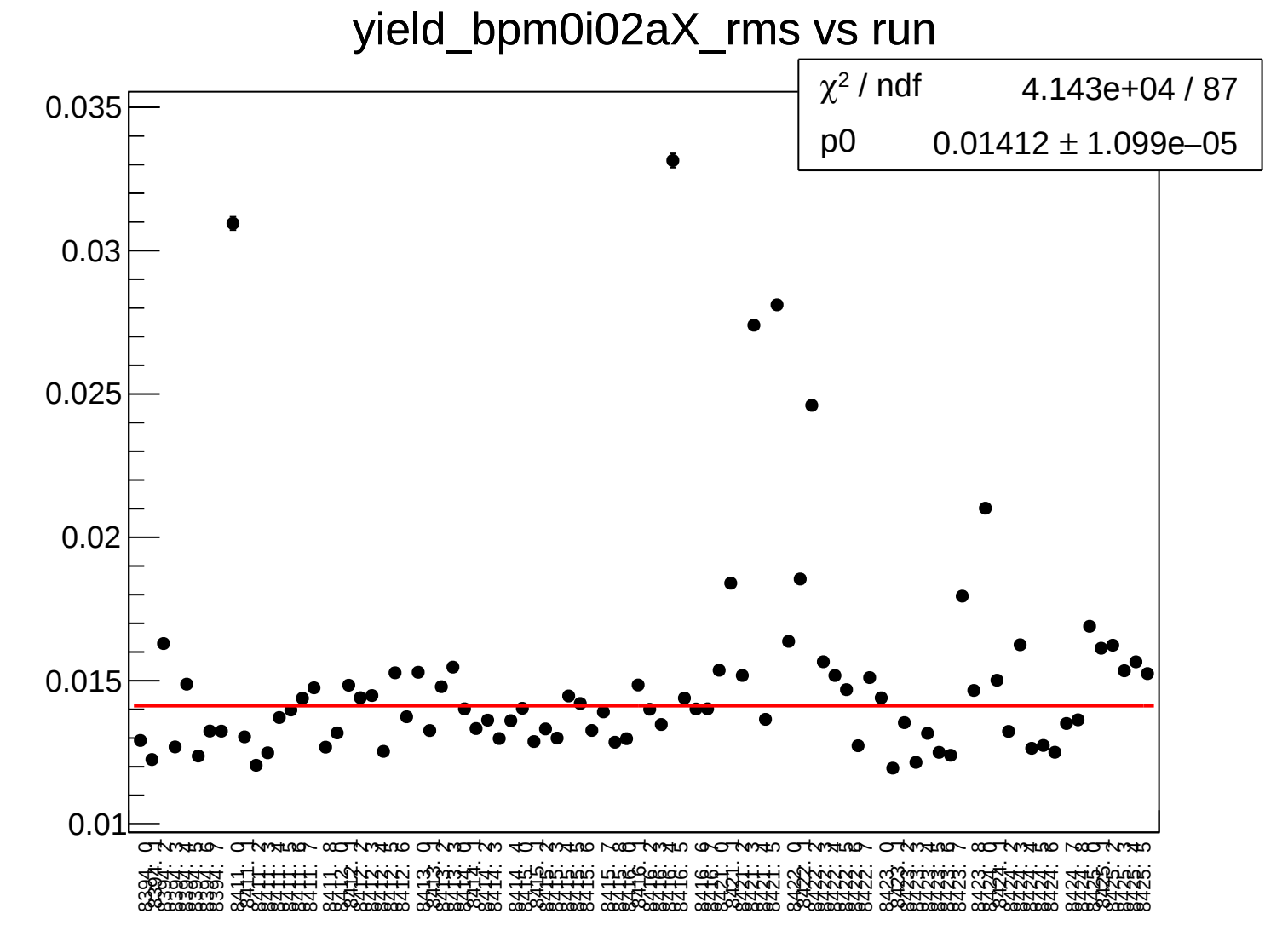

yield_bpm0i02Y_mean vs run
χ² / ndf 3.002e+06 / 87
p0 −3.711 ± 1.478e−05
−3.64
−3.66
−3.68
−3.7
−3.72
−3.74
−3.76
−3.78
pull
Entries 88
Mean 1484
Std Dev 0
400
200
0
−200
−400

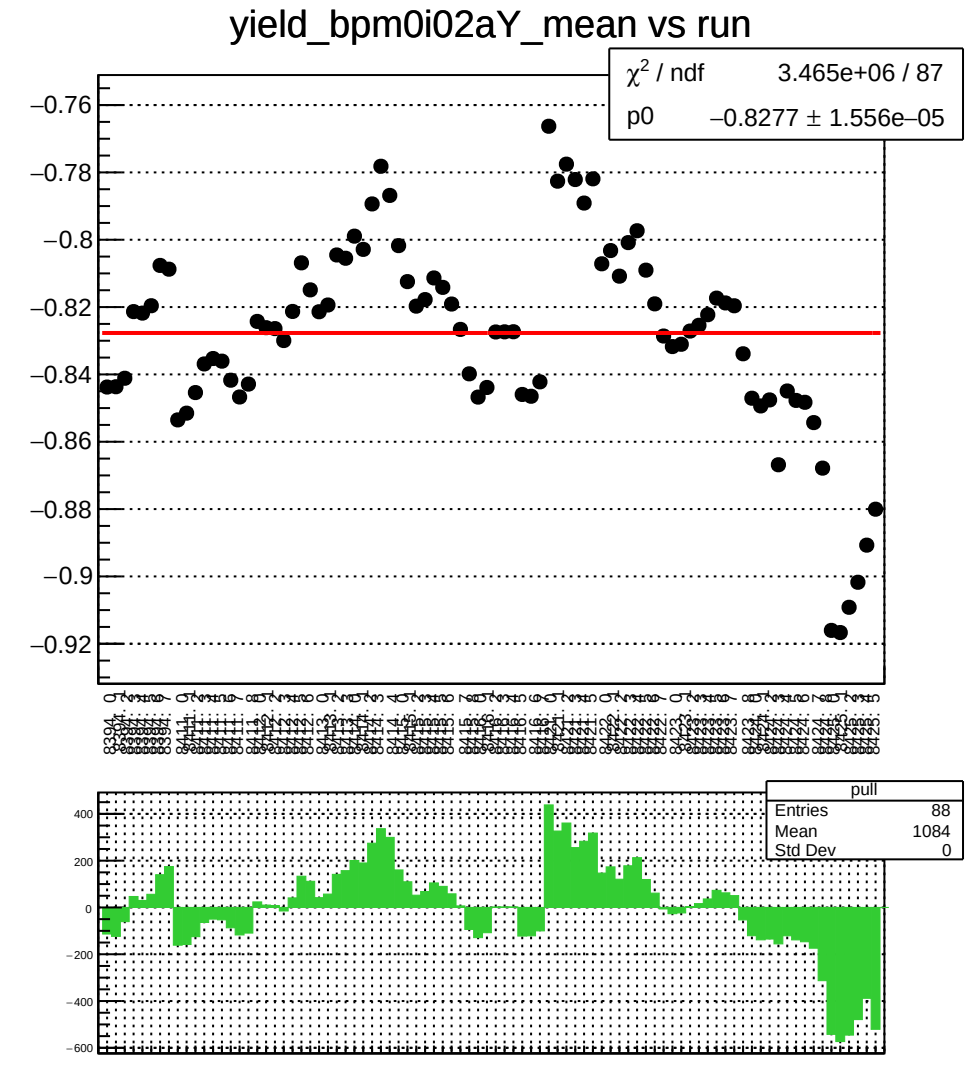

pull1D
Entries 88
Mean 4.459
Std Dev 0.5207
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

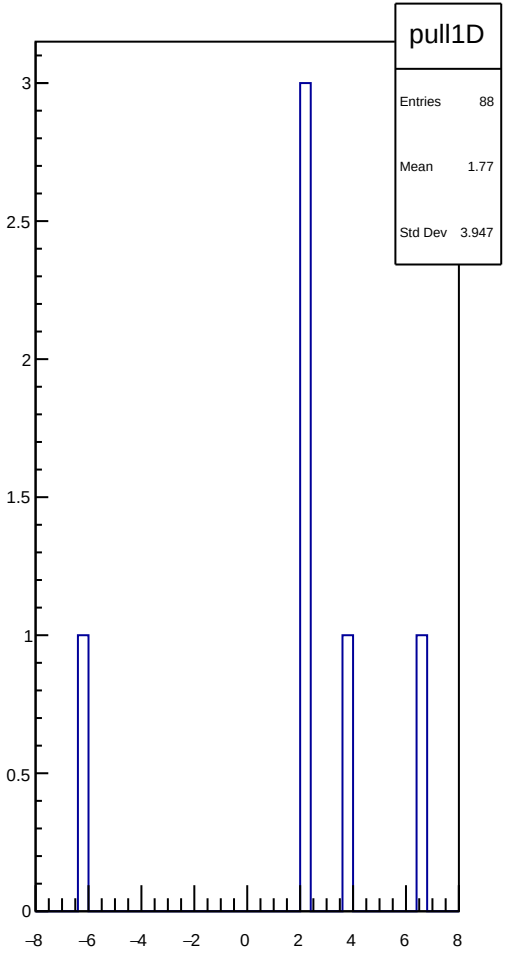

yield_bpm0i02Y_rms vs run
χ² / ndf 9454 / 87
p0 0.01356 ± 1.045e−05
0.02
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011

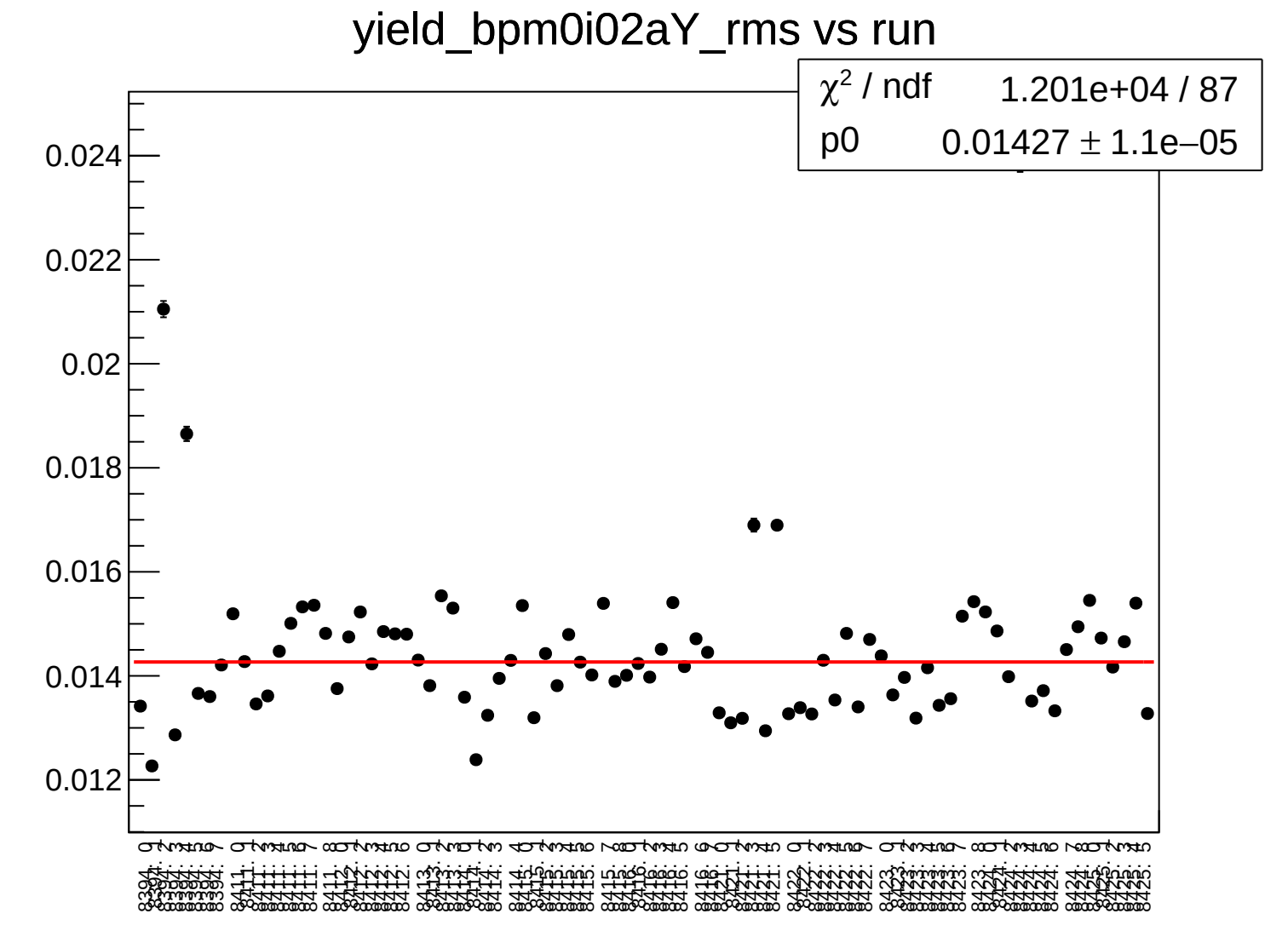

yield_bpm0i02aX_mean vs run
χ² / ndf 9.453e+06 / 87
p0 1.421± 1.554e−05
1.5
1.45
1.4
1.35
1.3
pull
Entries 88
Mean 109.5
Std Dev 91.53
400
200
0
−200
−400
−600
−800

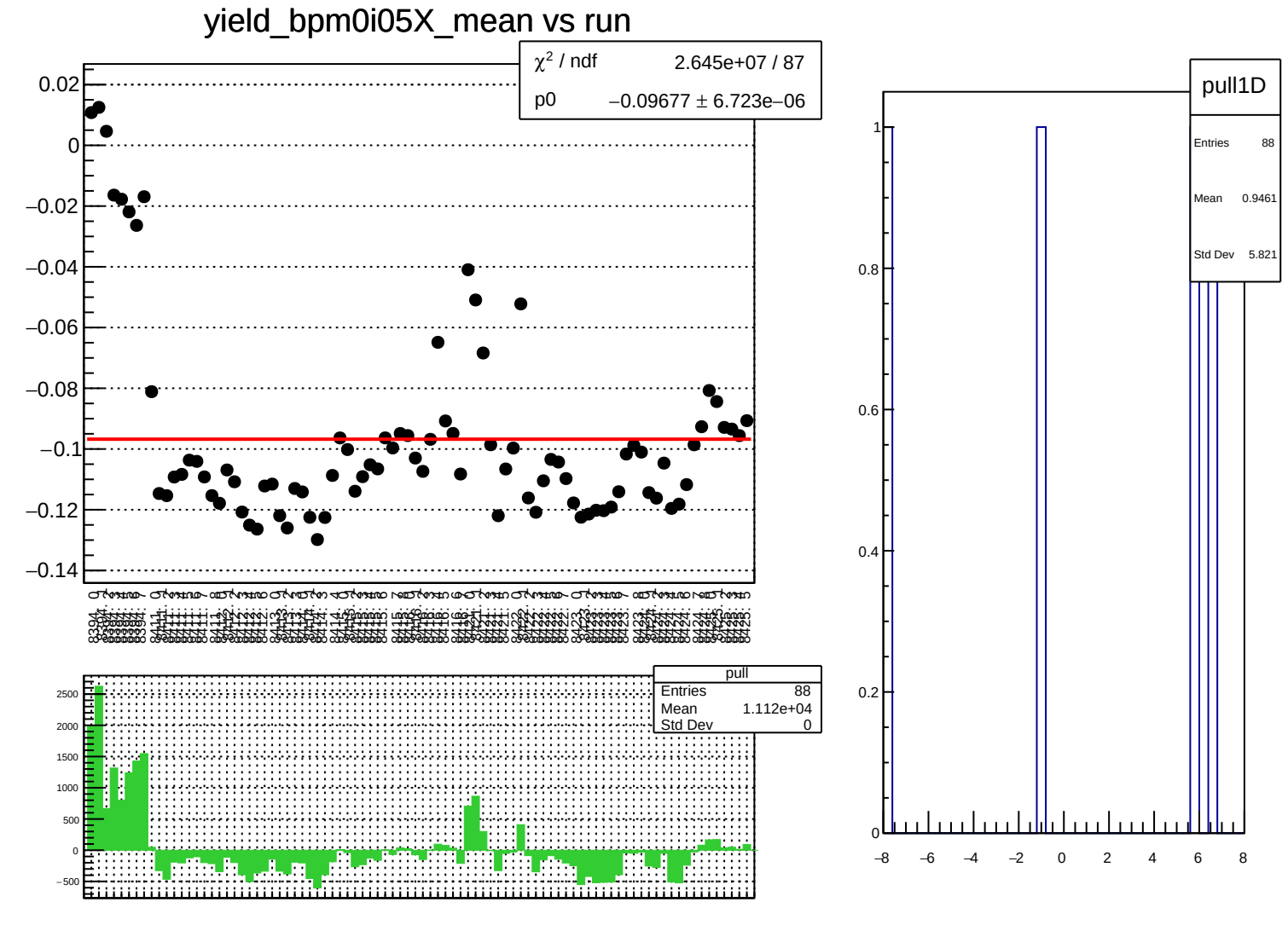

pull1D
Entries 88
Mean −5.448
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

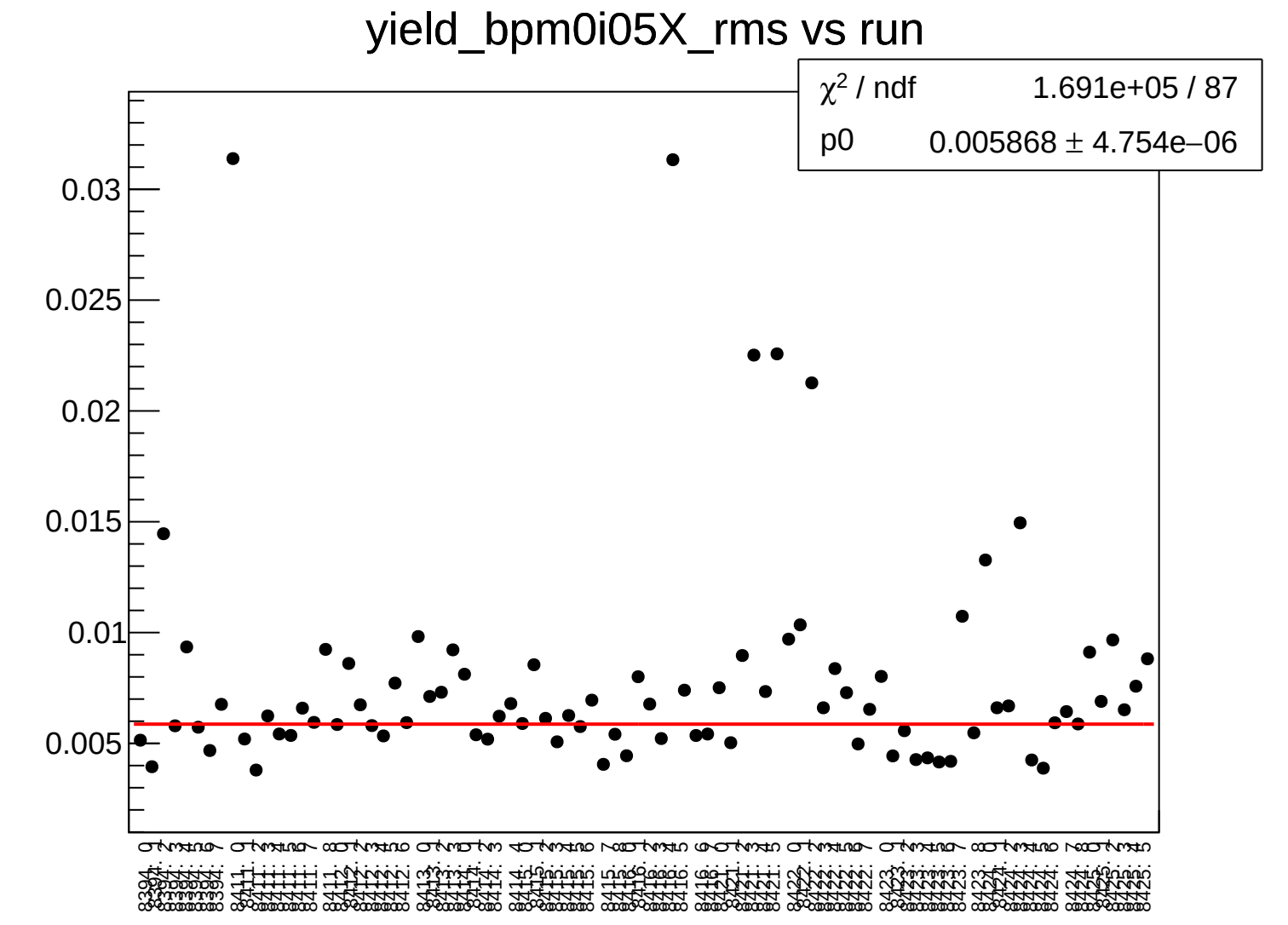

yield_bpm0i02aX_rms vs run
χ² / ndf 4.143e+04 / 87
p0 0.01412 ± 1.099e–05
0.035
0.03
0.025
0.02
0.015
0.01

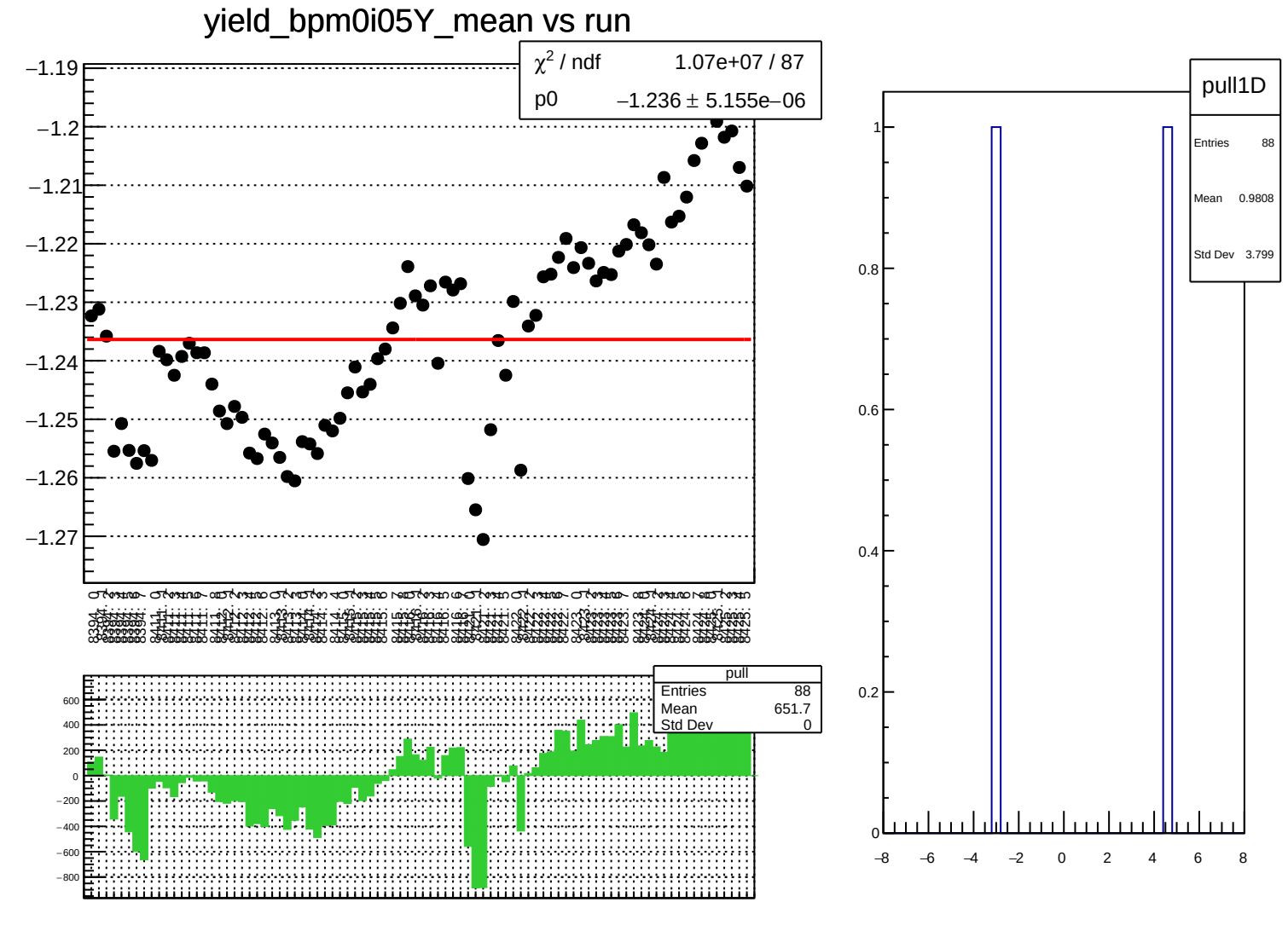

yield_bpm0i02aY_mean vs run
χ² / ndf 3.465e+06 / 87
p0 −0.8277 ± 1.556e−05
−0.76
−0.78
−0.8
−0.82
−0.84
−0.86
−0.88
−0.9
−0.92
pull
Entries 88
Mean 1084
Std Dev 0
400
200
0
−200
−400
−600

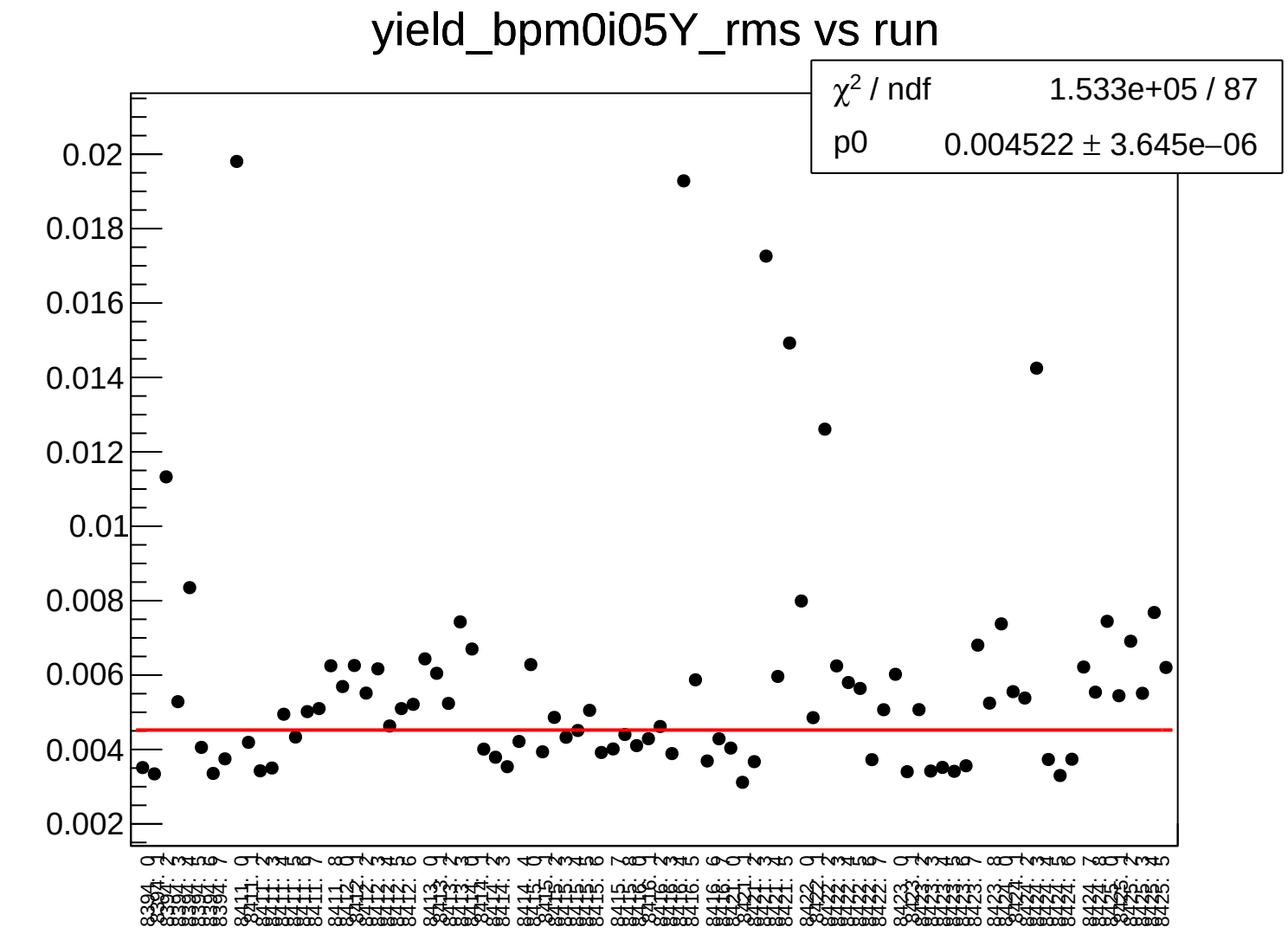

pull1D
Entries 88
Mean 1.77
Std Dev 3.947
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

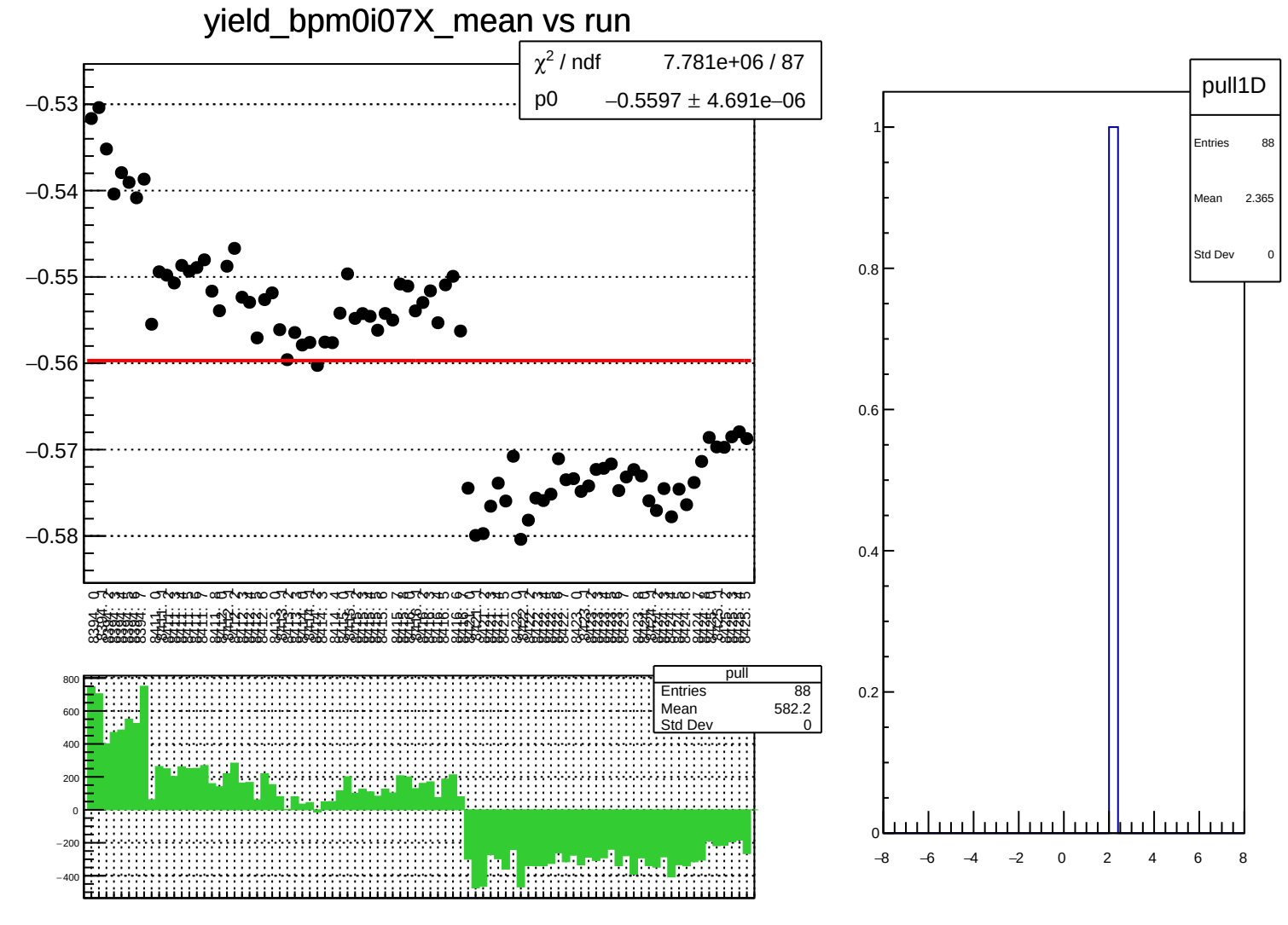

yield_bpm0i02aY_rms vs run
χ² / ndf 1.201e+04 / 87
p0 0.01427 ± 1.1e−05
0.024
0.022
0.02
0.018
0.016
0.014
0.012

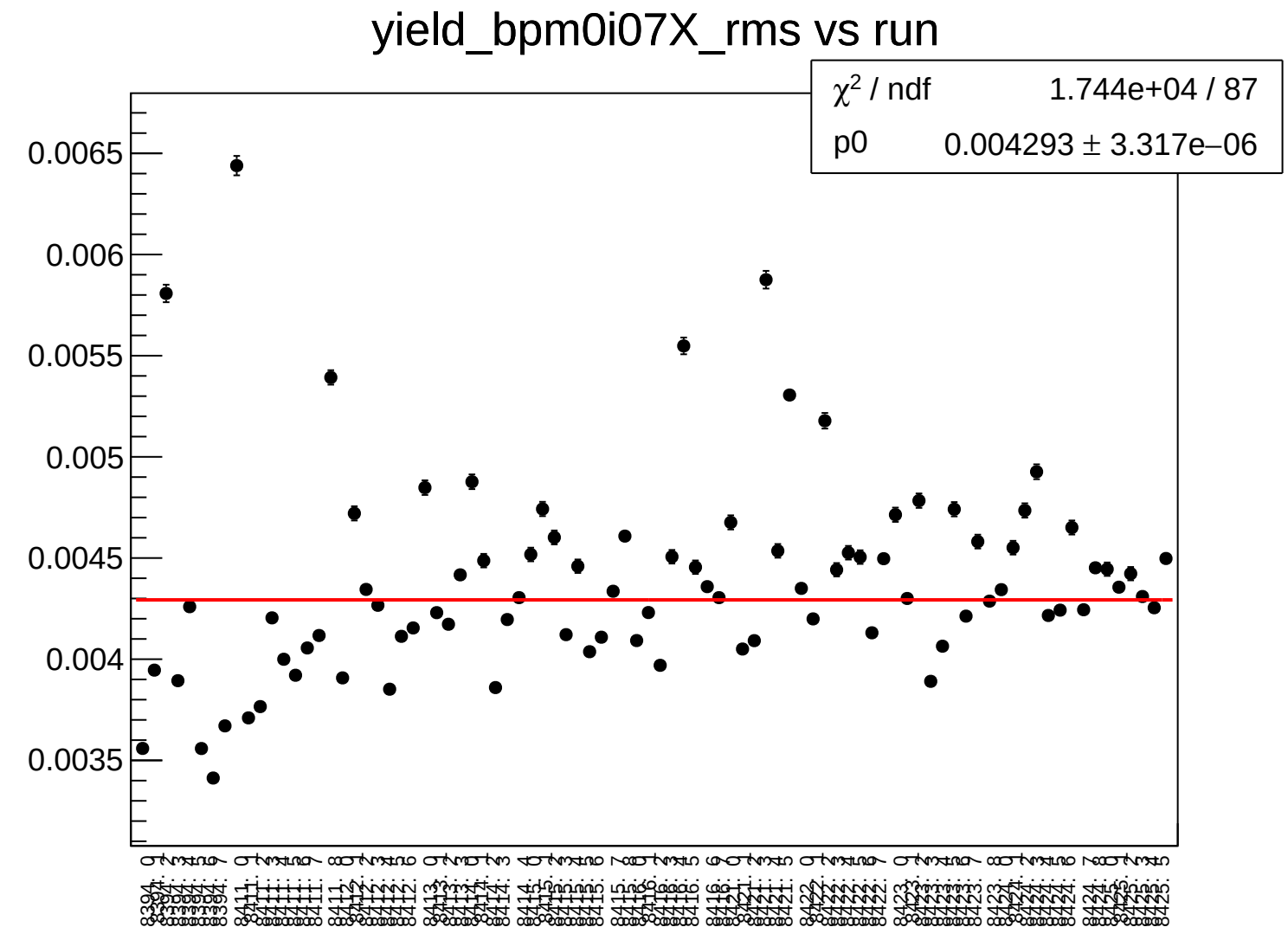

yield_bpm0i05X_mean vs run
χ² / ndf 2.645e+07 / 87
p0 −0.09677 ± 6.723e−06
pull
Entries 88
Mean 1.112e+04
Std Dev 0
pull1D
Entries 88
Mean 0.9461
Std Dev 5.821

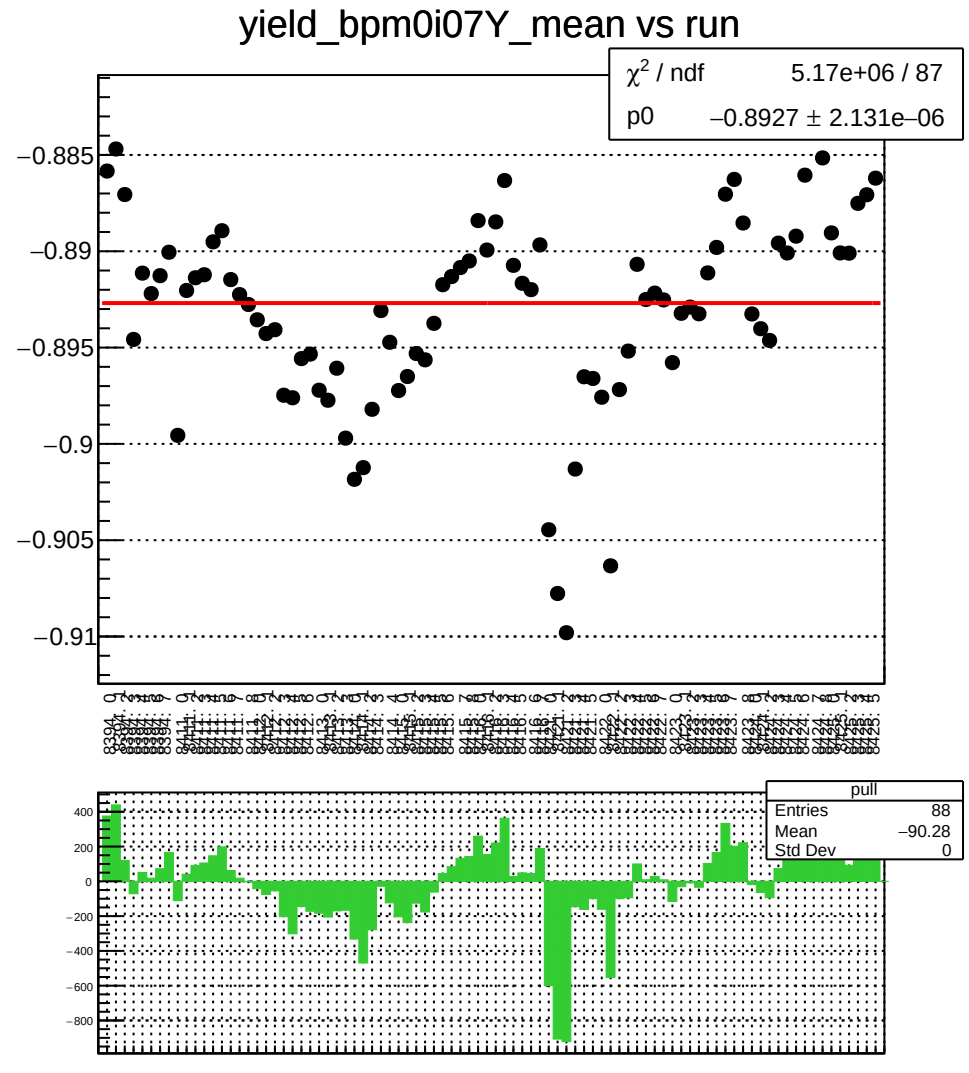

yield_bpm0i05X_rms vs run
χ² / ndf 1.691e+05 / 87
p0 0.005868 ± 4.754e−06
0.03
0.025
0.02
0.015
0.01
0.005

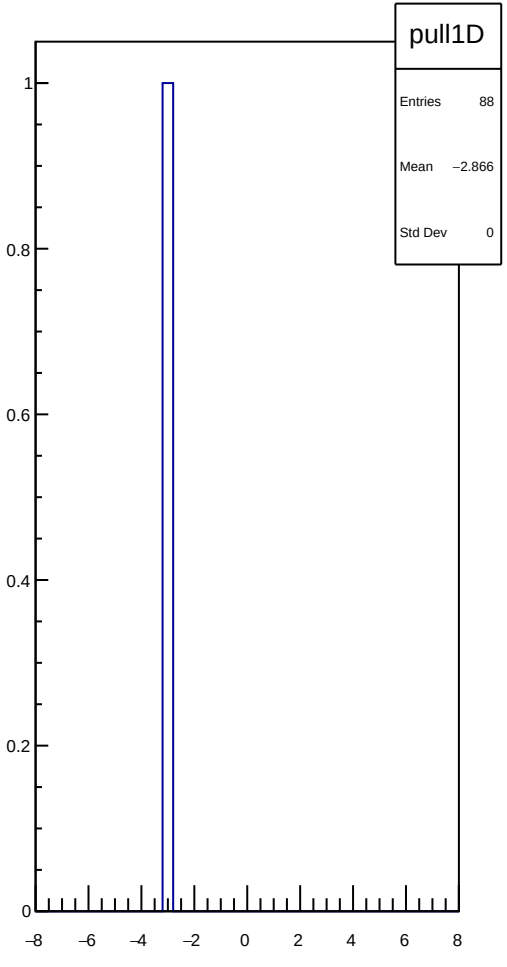

yield_bpm0i05Y_mean vs run
χ² / ndf 1.07e+07 / 87
p0 −1.236 ± 5.155e−06
−1.19
−1.2
−1.21
−1.22
−1.23
−1.24
−1.25
−1.26
−1.27
pull
Entries 88
Mean 651.7
Std Dev 0
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 88
Mean 0.9808
Std Dev 3.799
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

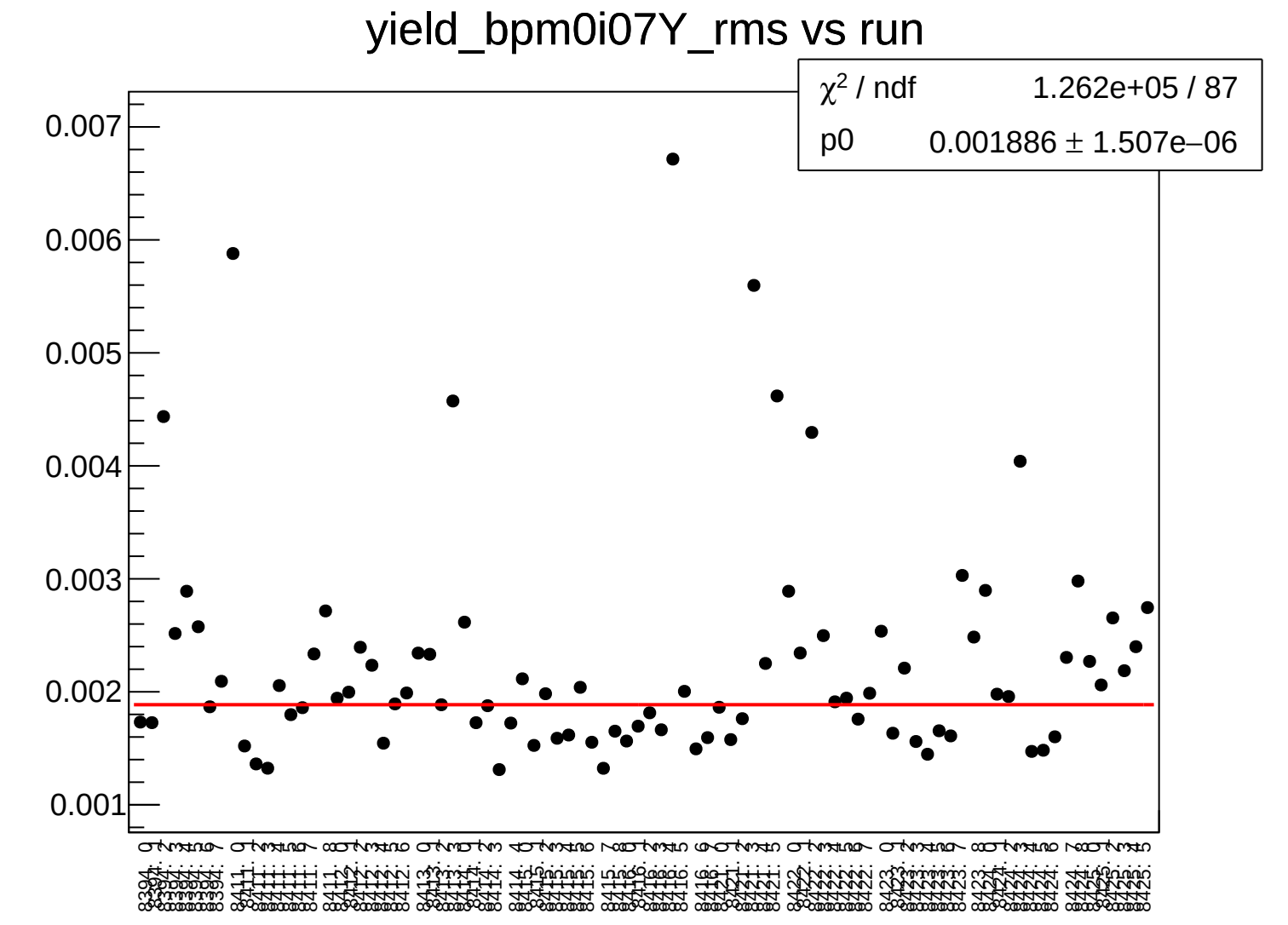

yield_bpm0i05Y_rms vs run
χ² / ndf 1.533e+05 / 87
p0 0.004522 ± 3.645e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

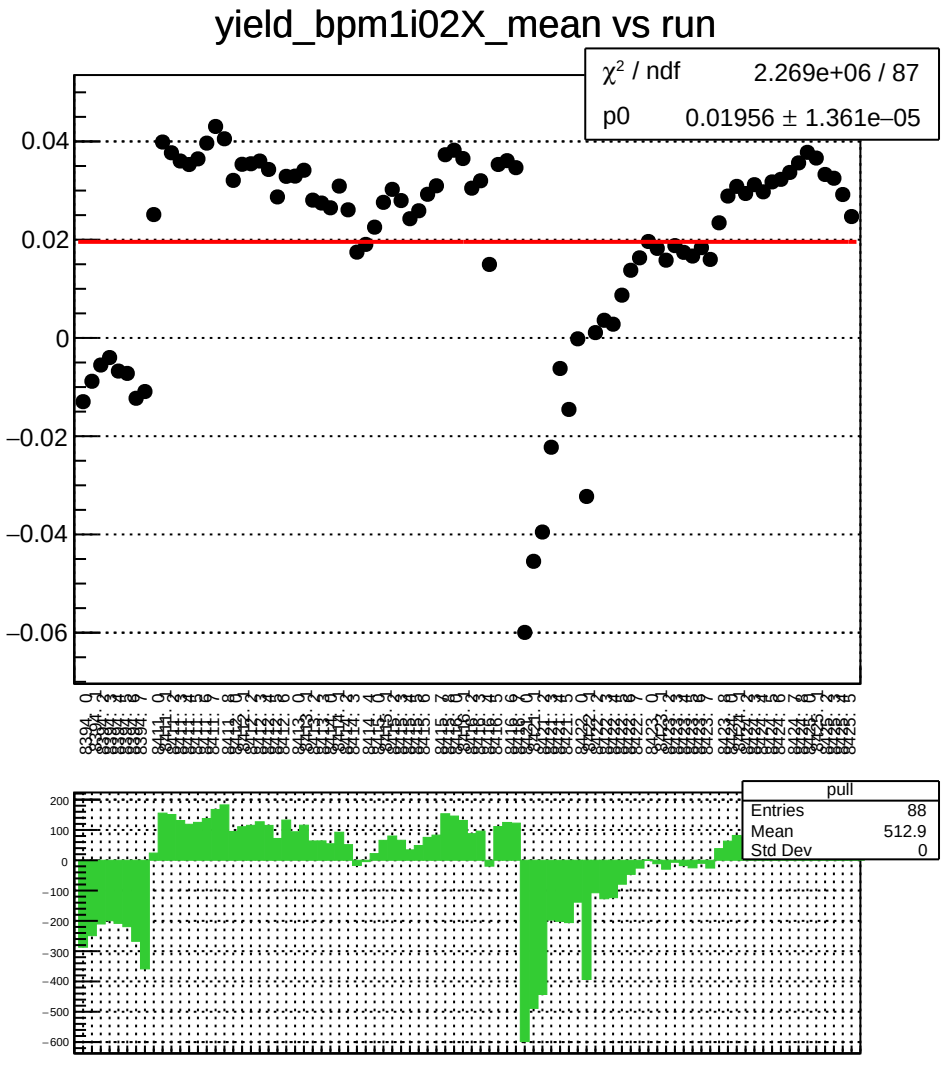

yield_bpm0i07X_mean vs run
χ² / ndf 7.781e+06 / 87
p0 −0.5597 ± 4.691e−06
−0.53
−0.54
−0.55
−0.56
−0.57
−0.58
pull
Entries 88
Mean 582.2
Std Dev 0
800
600
400
200
0
−200
−400
pull1D
Entries 88
Mean 2.365
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

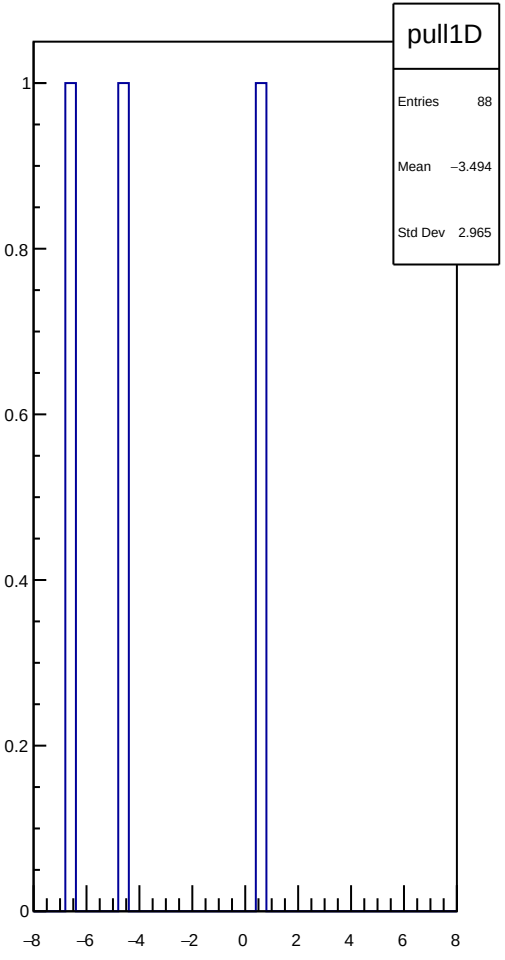

yield_bpm0i07X_rms vs run
χ² / ndf 1.744e+04 / 87
p0 0.004293 ± 3.317e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

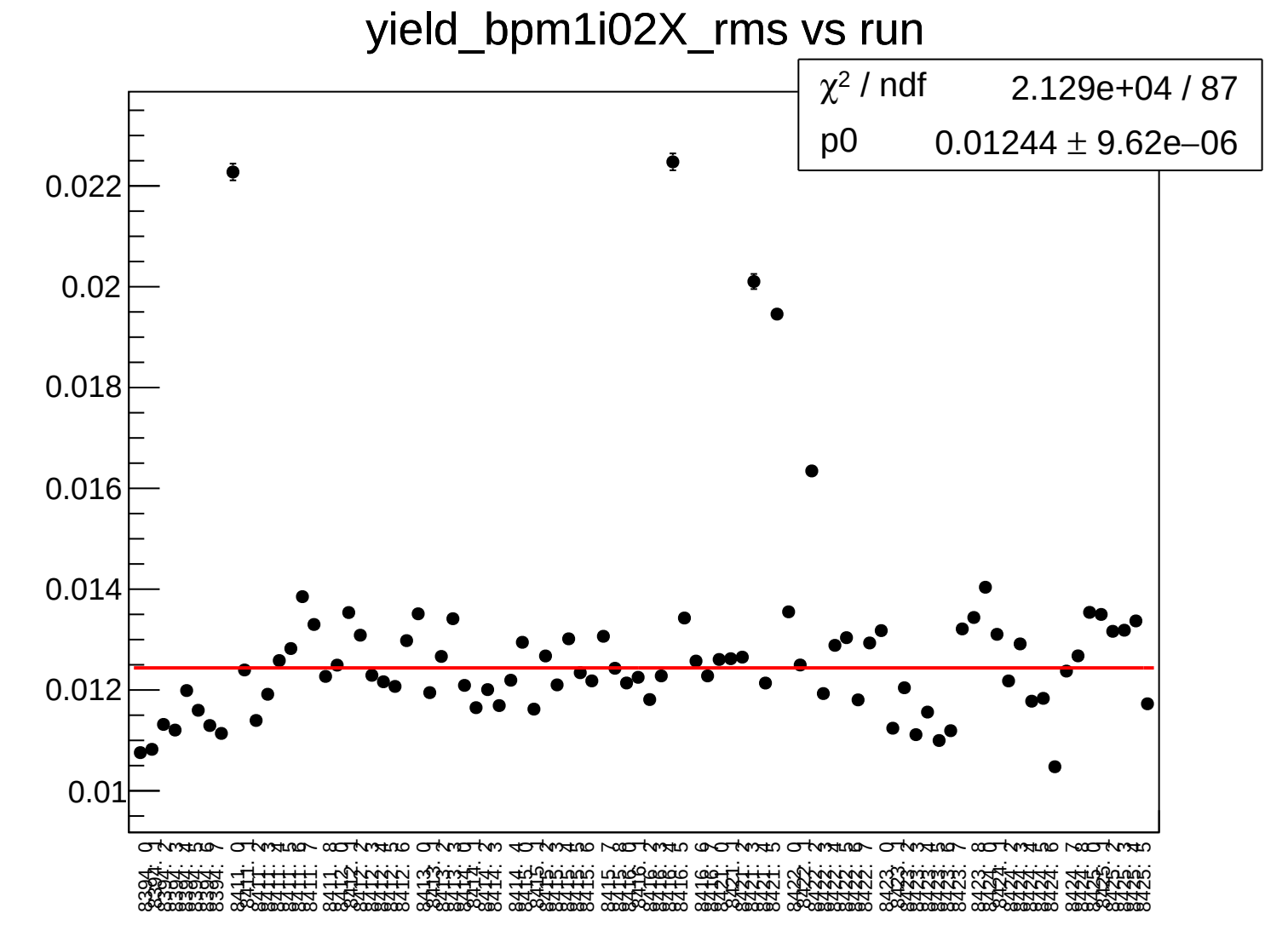

yield_bpm0i07Y_mean vs run
χ² / ndf 5.17e+06 / 87
p0 −0.8927 ± 2.131e−06
−0.885
−0.89
−0.895
−0.9
−0.905
−0.91
pull
Entries 88
Mean −90.28
Std Dev 0
400
200
0
−200
−400
−600
−800

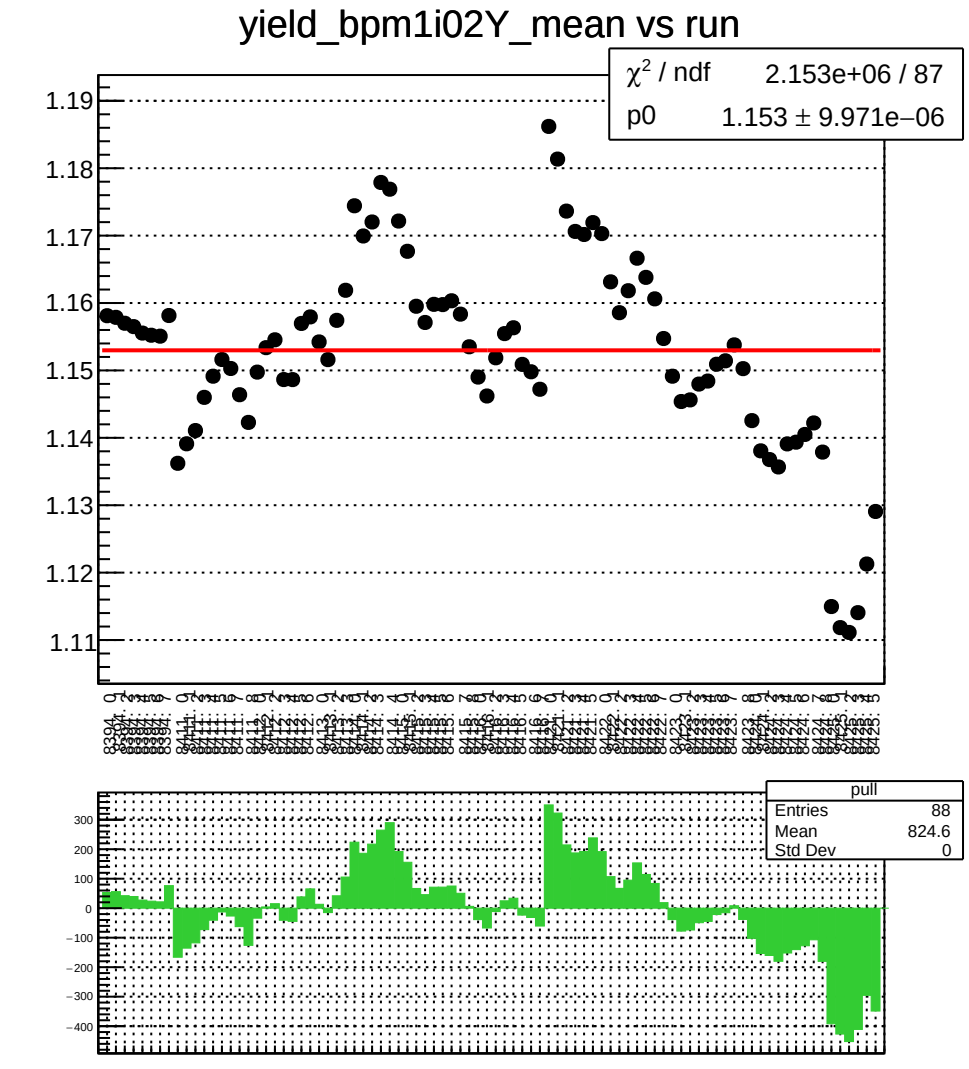

pull1D
Entries 88
Mean −2.866
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

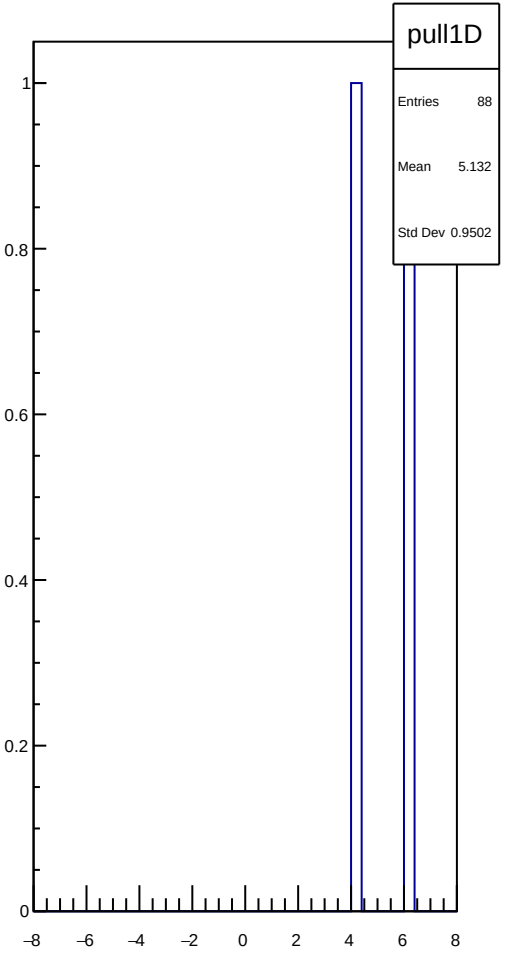

yield_bpm0i07Y_rms vs run
χ² / ndf 1.262e+05 / 87
p0 0.001886 ± 1.507e−06
0.007
0.006
0.005
0.004
0.003
0.002
0.001

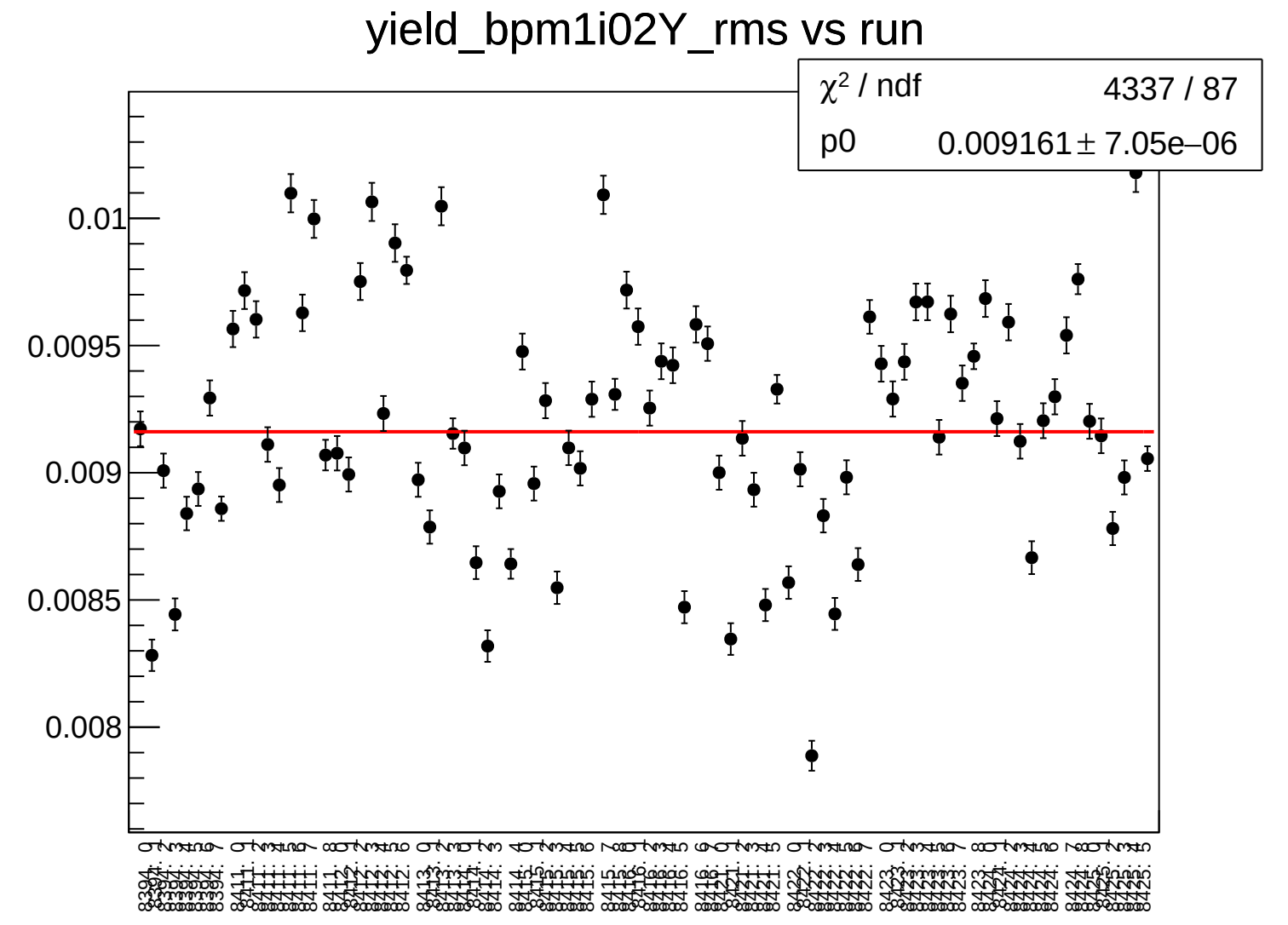

yield_bpm1i02X_mean vs run
χ² / ndf 2.269e+06 / 87
p0 0.01956 ± 1.361e−05
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 88
Mean 512.9
Std Dev 0
200
100
0
−100
−200
−300
−400
−500
−600

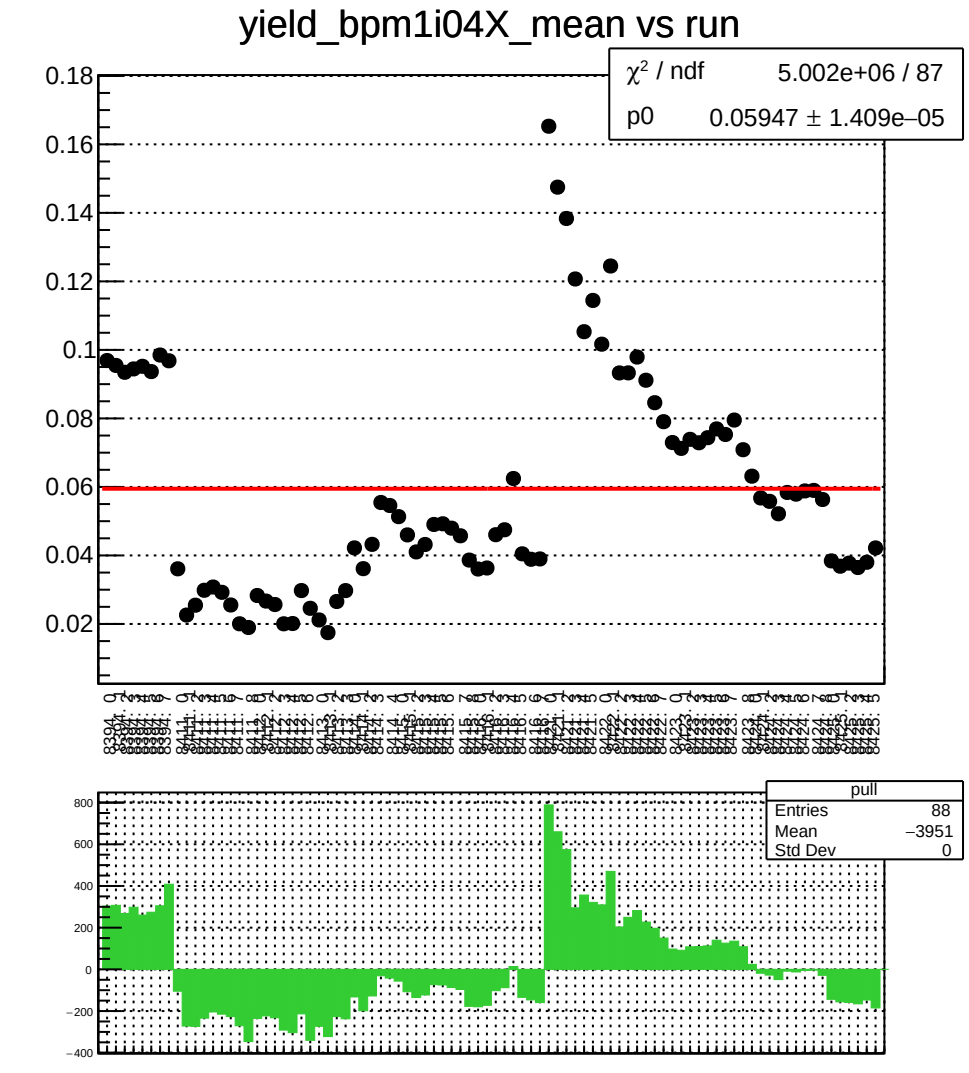

pull1D
Entries 88
Mean −3.494
Std Dev 2.965
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

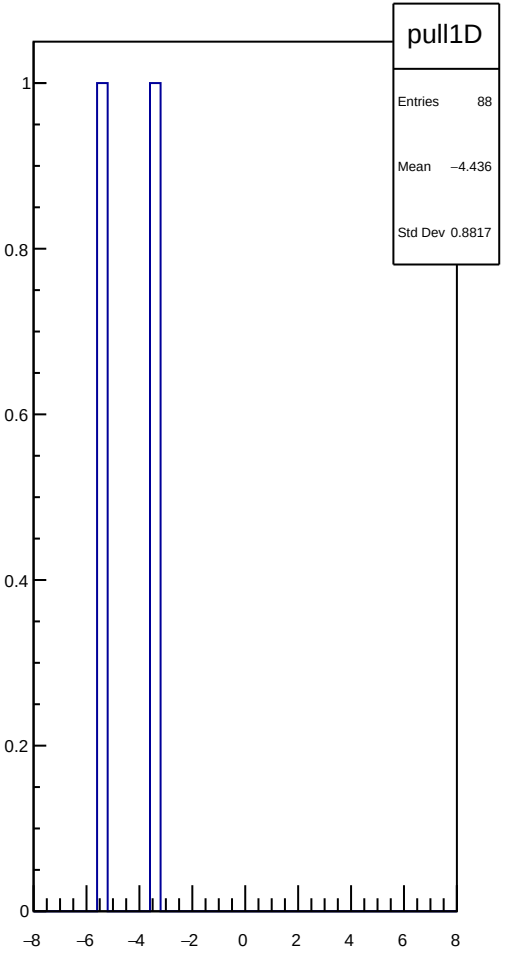

yield_bpm1i02X_rms vs run
χ^2 / ndf 2.129e+04 / 87
p0 0.01244 ± 9.62e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01


yield_bpm1i02Y_mean vs run
χ² / ndf 2.153e+06 / 87
p0 1.153 ± 9.971e−06
1.19
1.18
1.17
1.16
1.15
1.14
1.13
1.12
1.11
pull
Entries 88
Mean 824.6
Std Dev 0
300
200
100
0
−100
−200
−300
−400

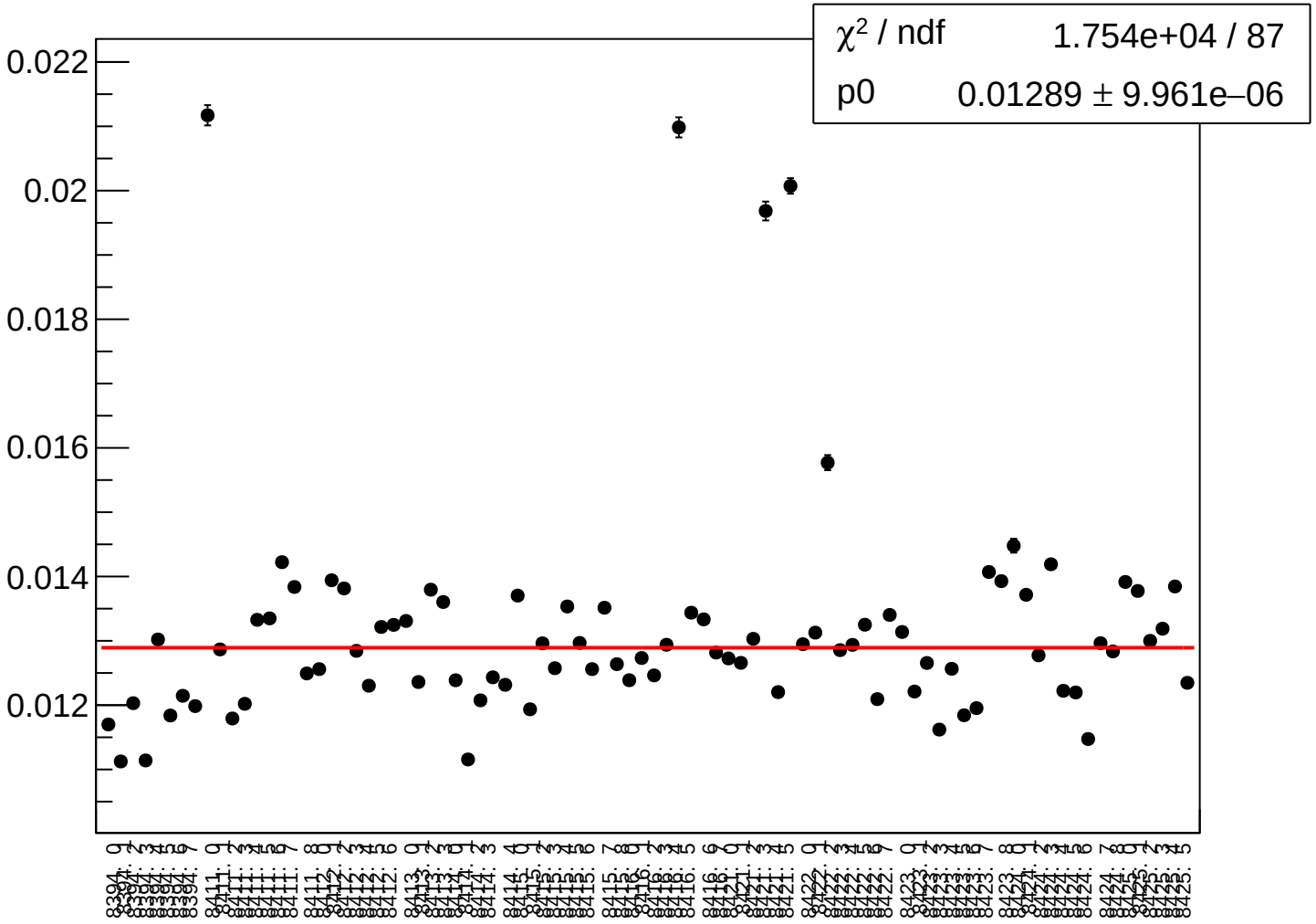

pull1D
Entries 88
Mean 5.132
Std Dev 0.9502
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

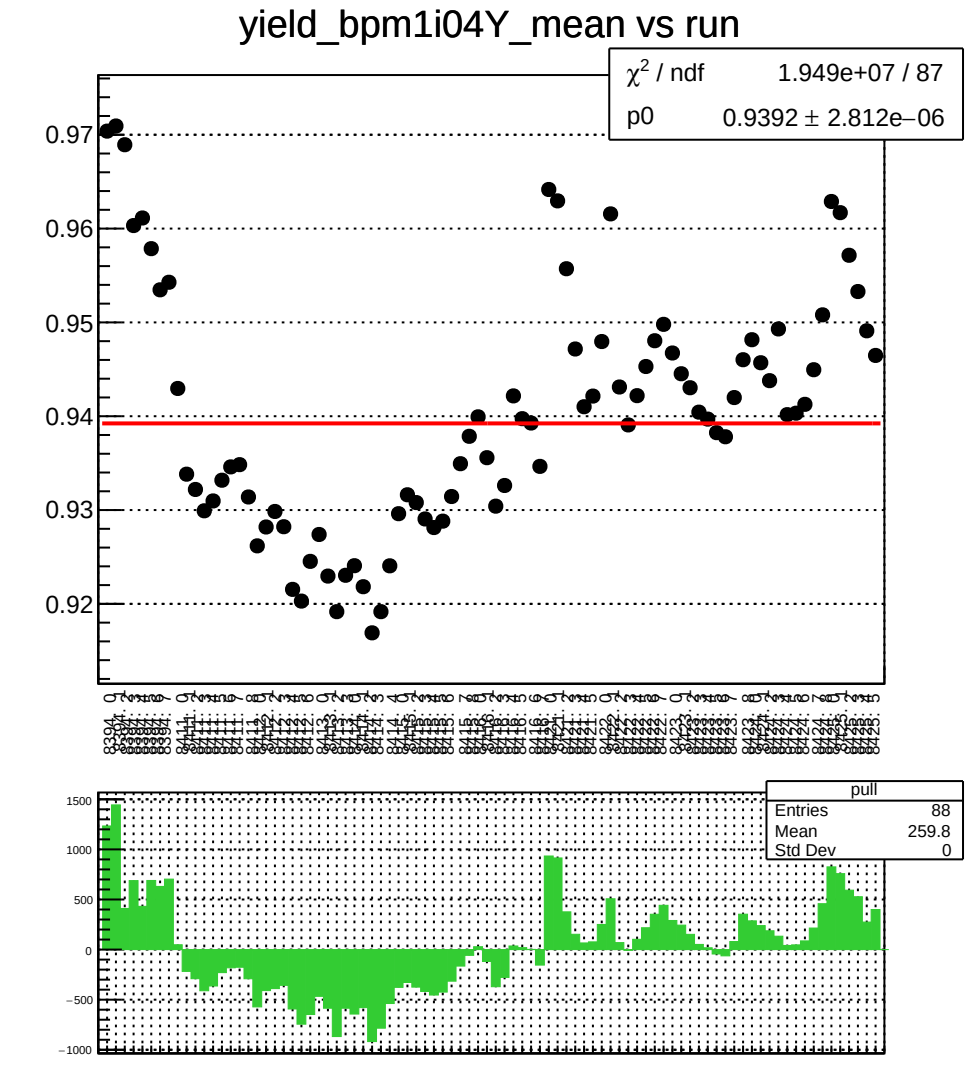

yield_bpm1i02Y_rms vs run
χ² / ndf 4337 / 87
p0 0.009161 ± 7.05e–06
0.01
0.0095
0.009
0.0085
0.008

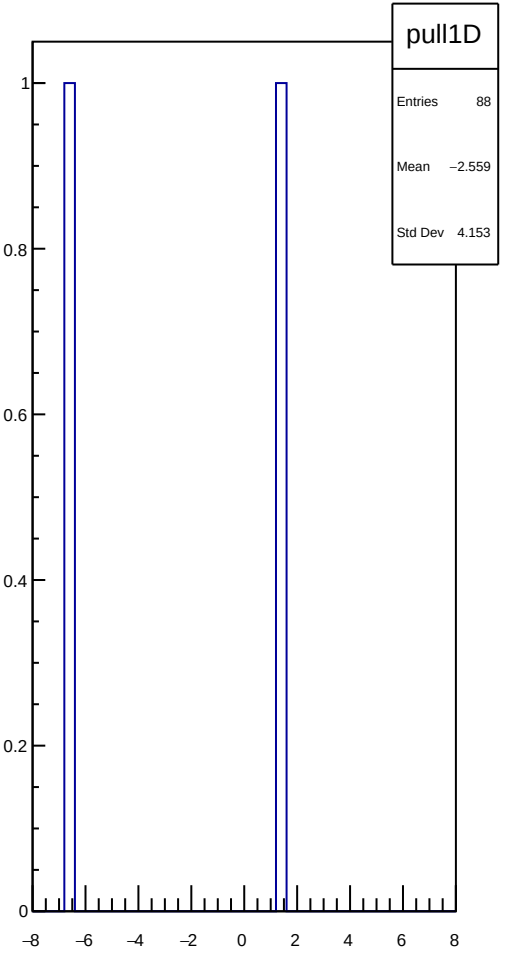

yield_bpm1i04X_mean vs run
χ² / ndf 5.002e+06 / 87
p0 0.05947 ± 1.409e−05
pull
Entries 88
Mean −3951
Std Dev 0

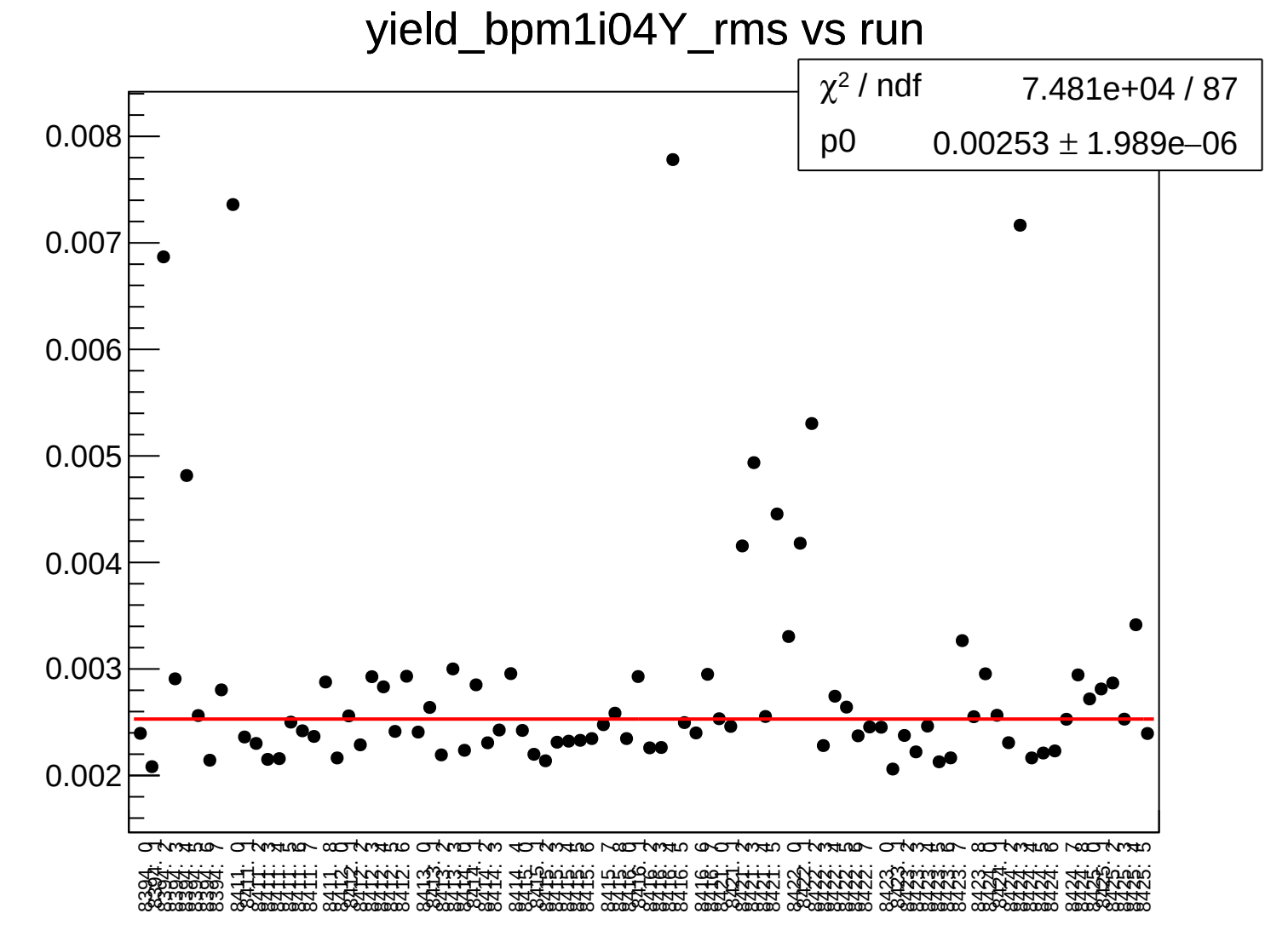

pull1D
Entries 88
Mean −4.436
Std Dev 0.8817

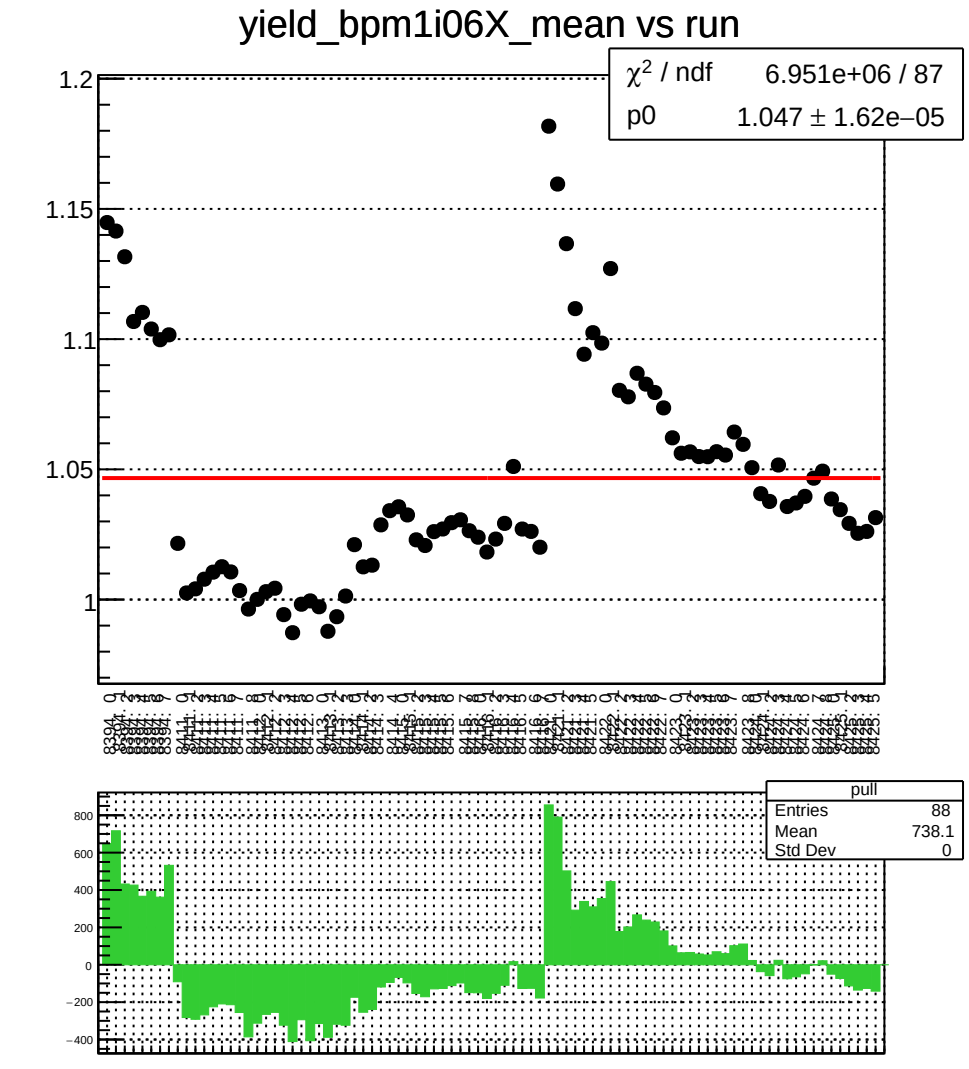
yield_bpm1i04X_rms vs run

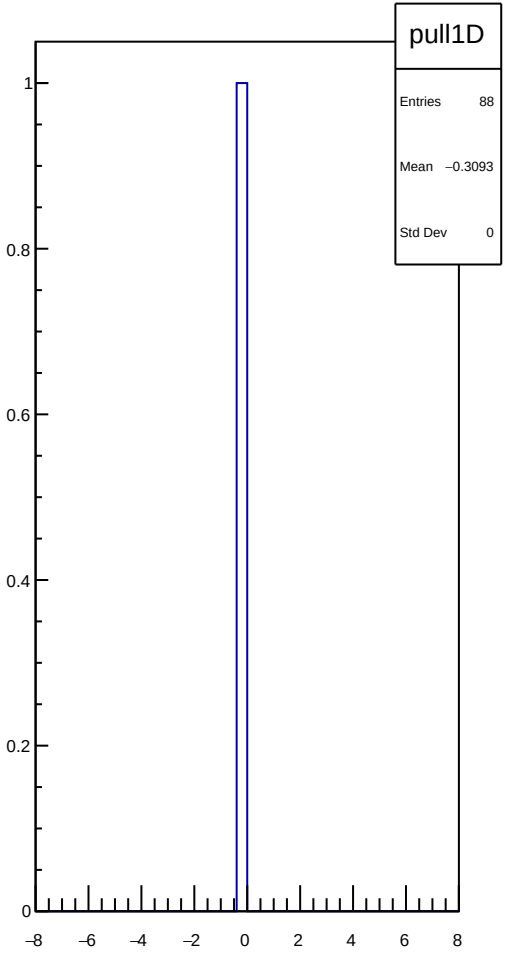


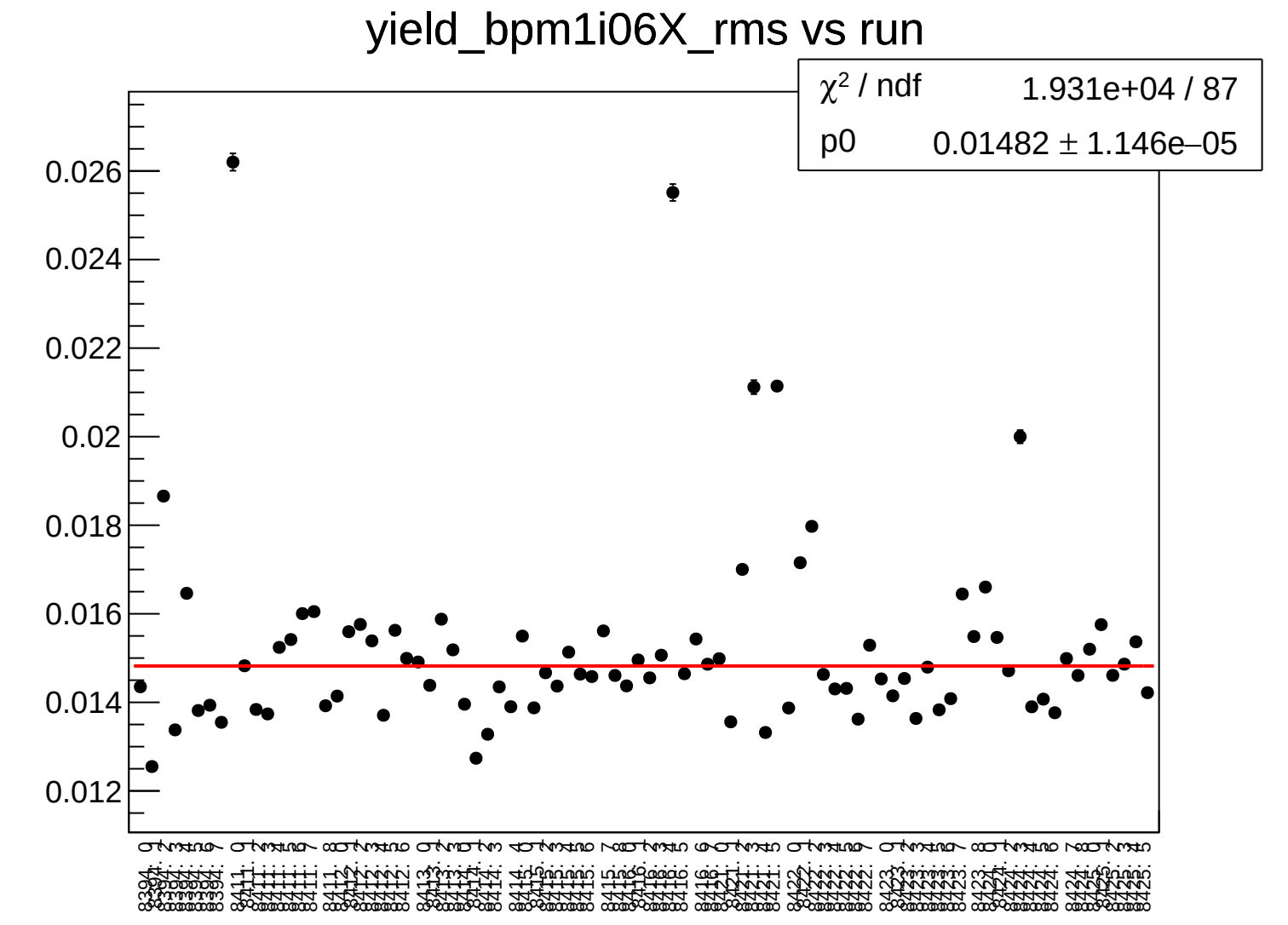

yield_bpm1i04Y_mean vs run
χ² / ndf 1.949e+07 / 87
p0 0.9392 ± 2.812e−06
0.97
0.96
0.95
0.94
0.93
0.92
pull
Entries 88
Mean 259.8
Std Dev 0
1500
1000
500
0
−500
−1000

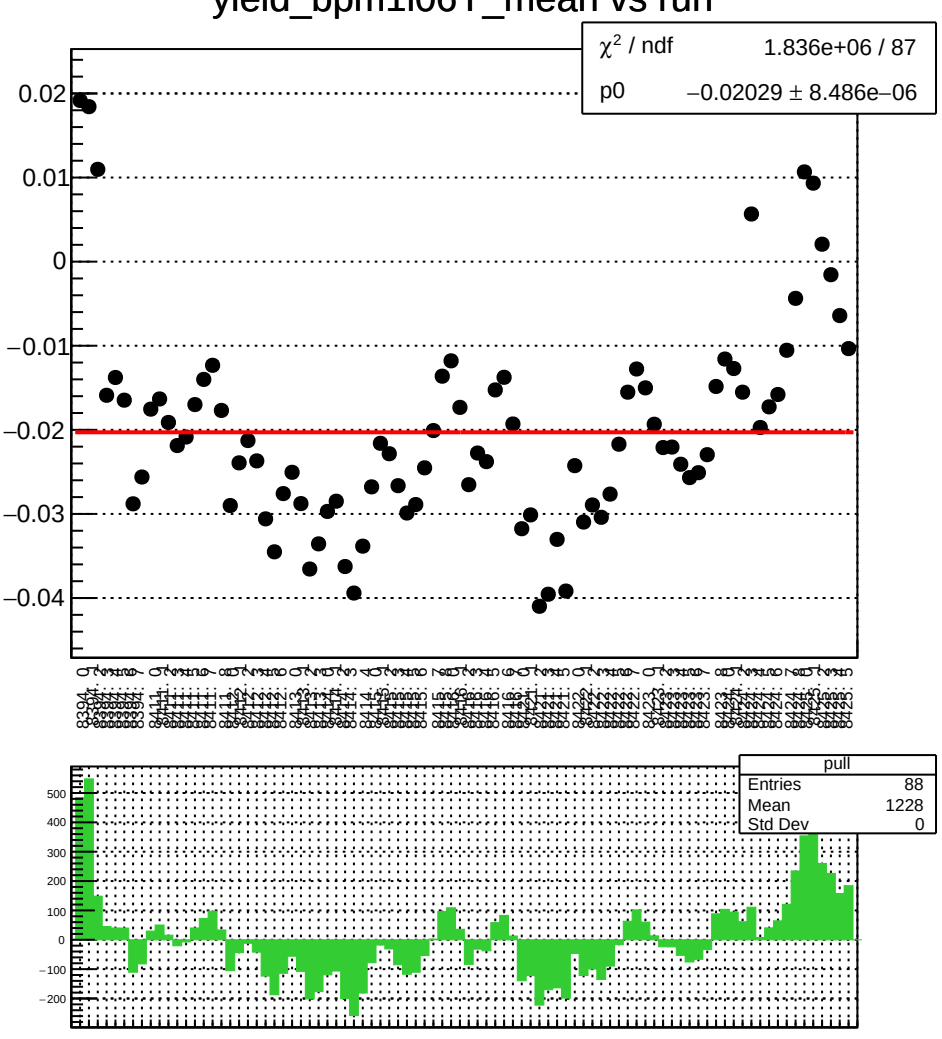

pull1D
Entries 88
Mean −2.559
Std Dev 4.153
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

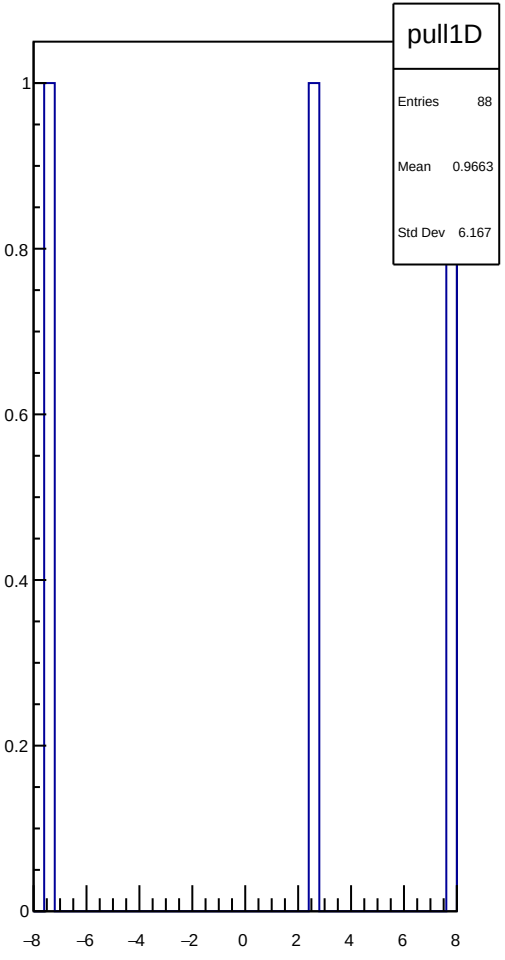

yield_bpm1i04Y_rms vs run
χ² / ndf 7.481e+04 / 87
p0 0.00253 ± 1.989e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002

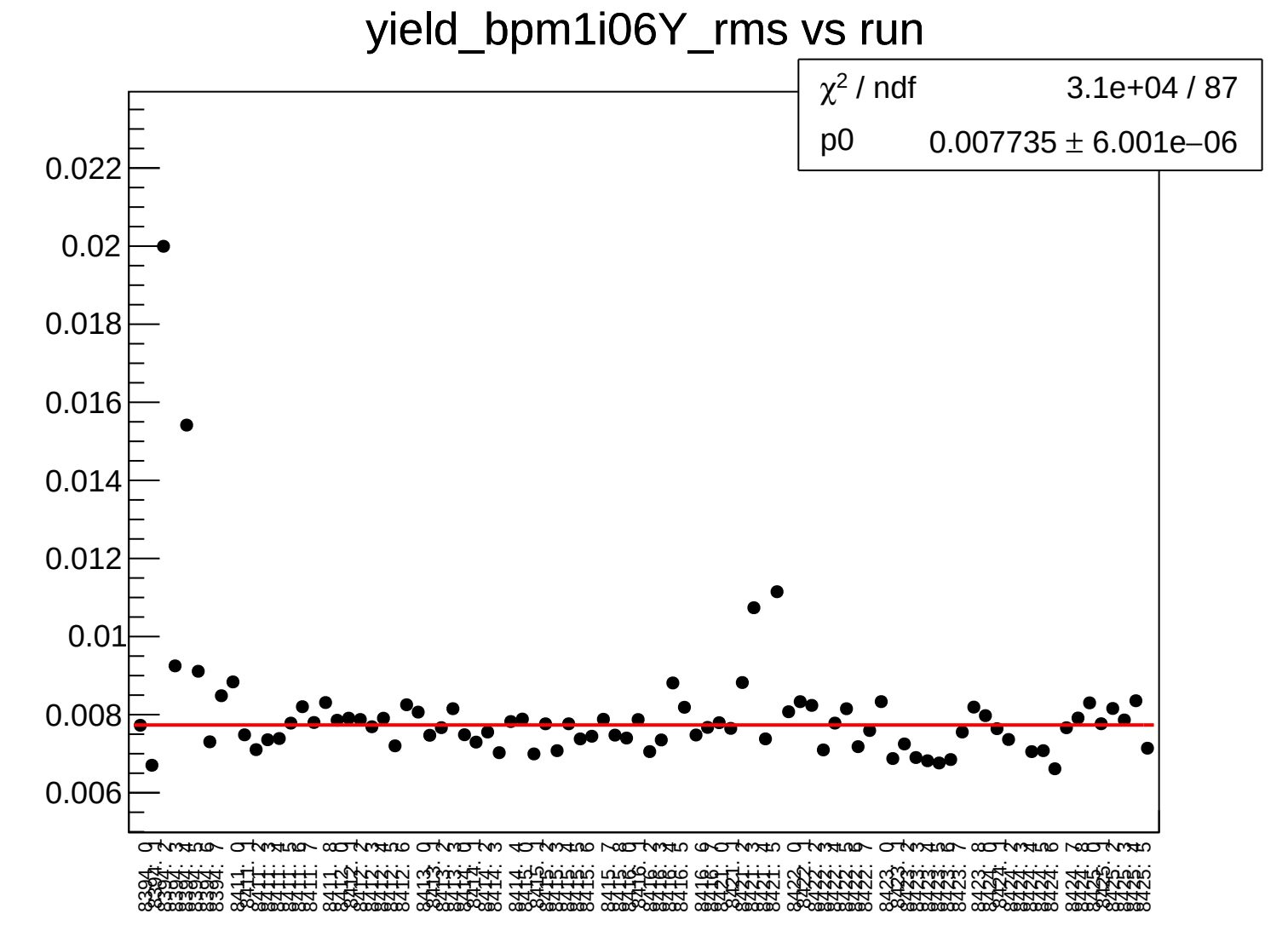

yield_bpm1i06X_mean vs run
χ² / ndf 6.951e+06 / 87
p0 1.047 ± 1.62e−05
1.2
1.15
1.1
1.05
1
pull
Entries 88
Mean 738.1
Std Dev 0
800
600
400
200
0
−200
−400

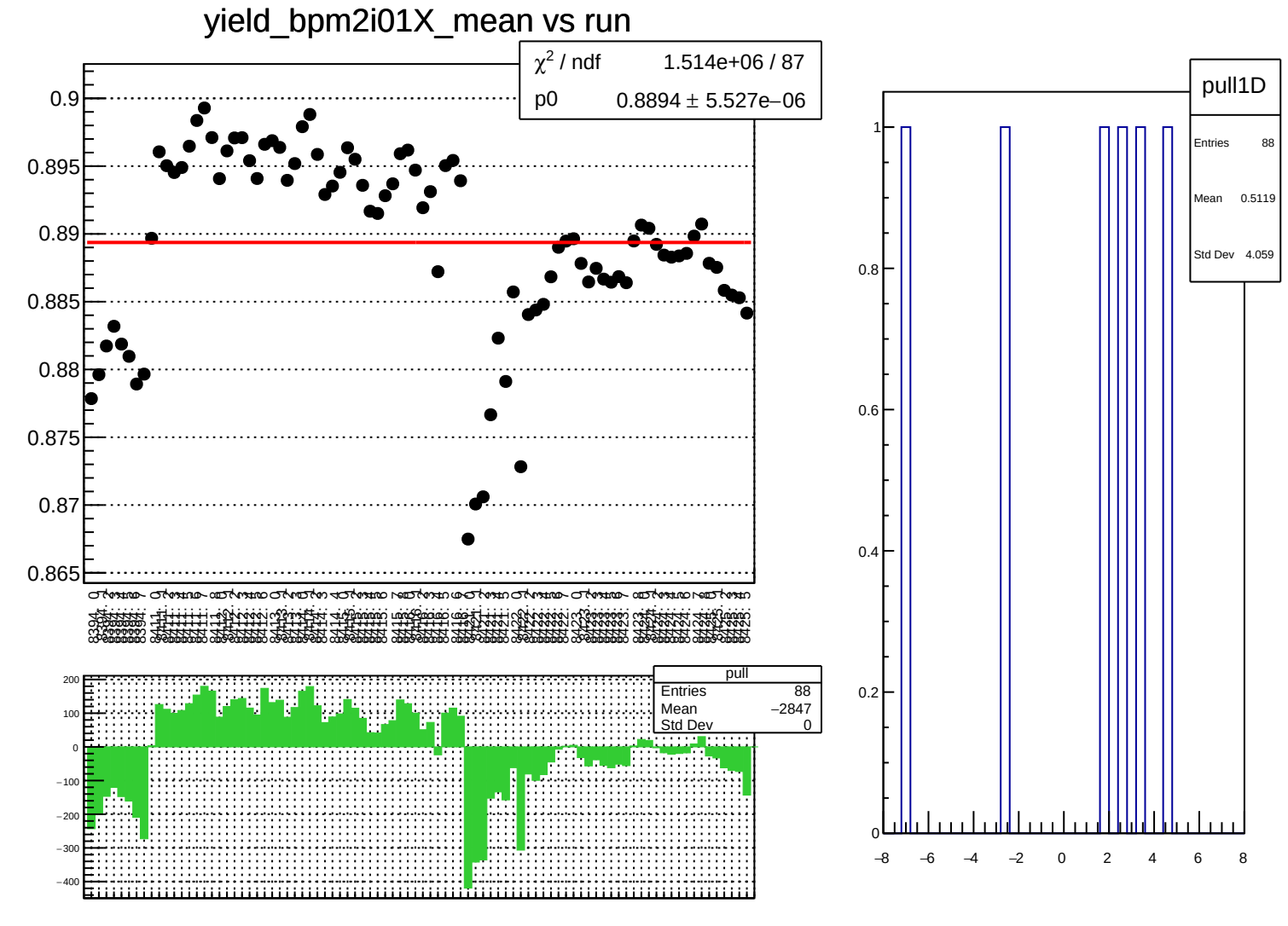

pull1D
Entries 88
Mean −0.3093
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

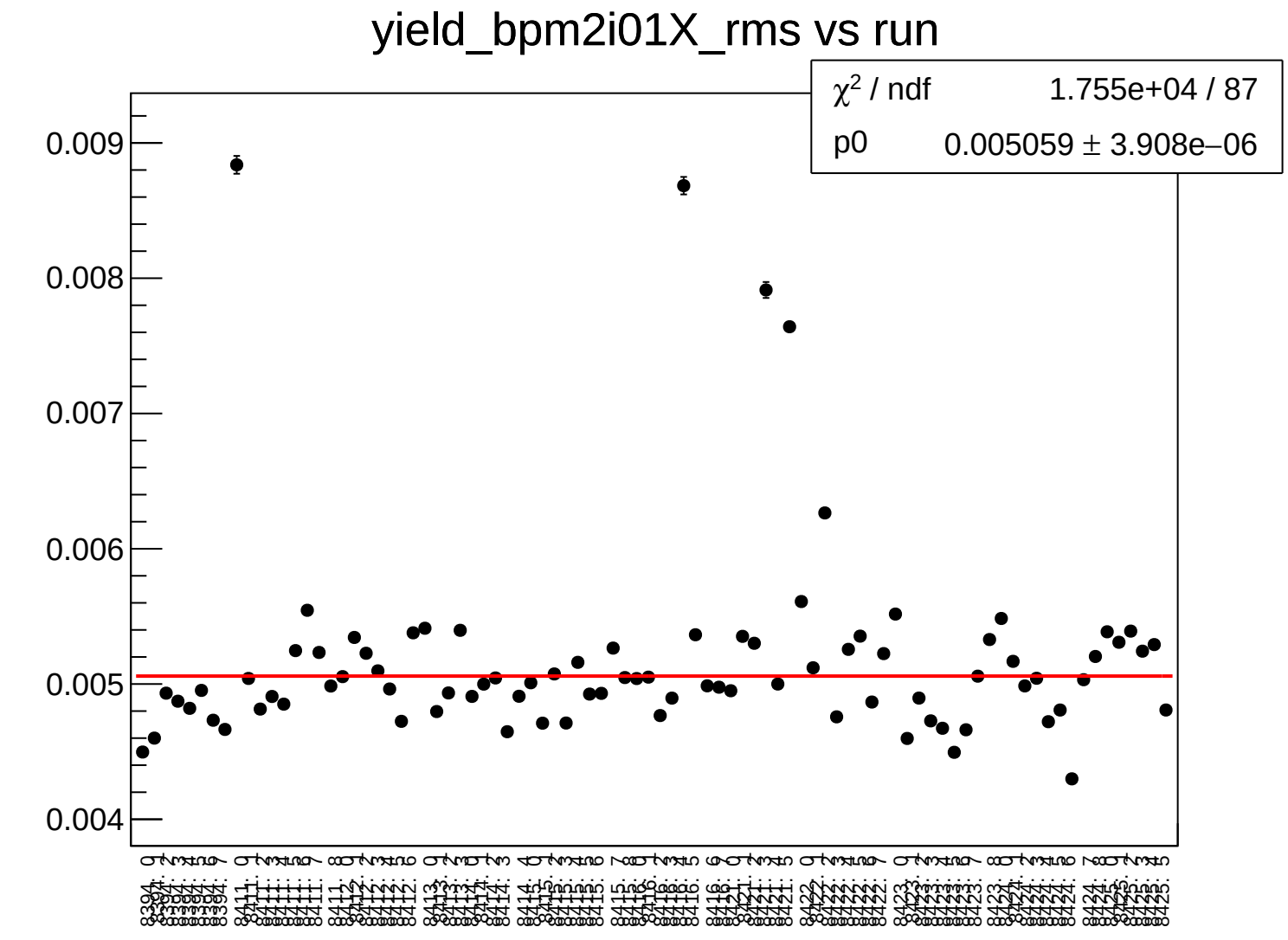

yield_bpm1i06X_rms vs run
χ² / ndf 1.931e+04 / 87
p0 0.01482 ± 1.146e–05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

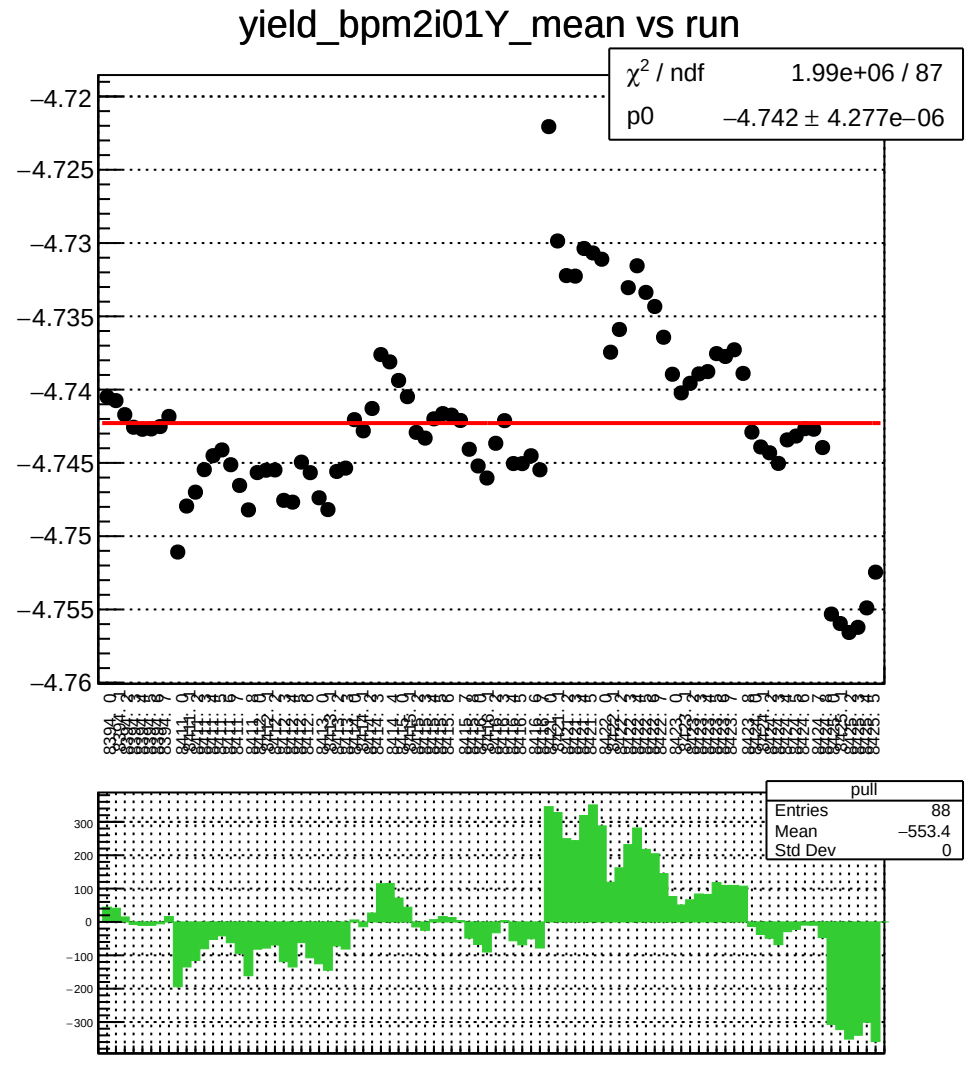

yield_bpm1i06Y_mean vs run
χ² / ndf 1.836e+06 / 87
p0 −0.02029 ± 8.486e−06
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 88
Mean 1228
Std Dev 0
500
400
300
200
100
0
−100
−200

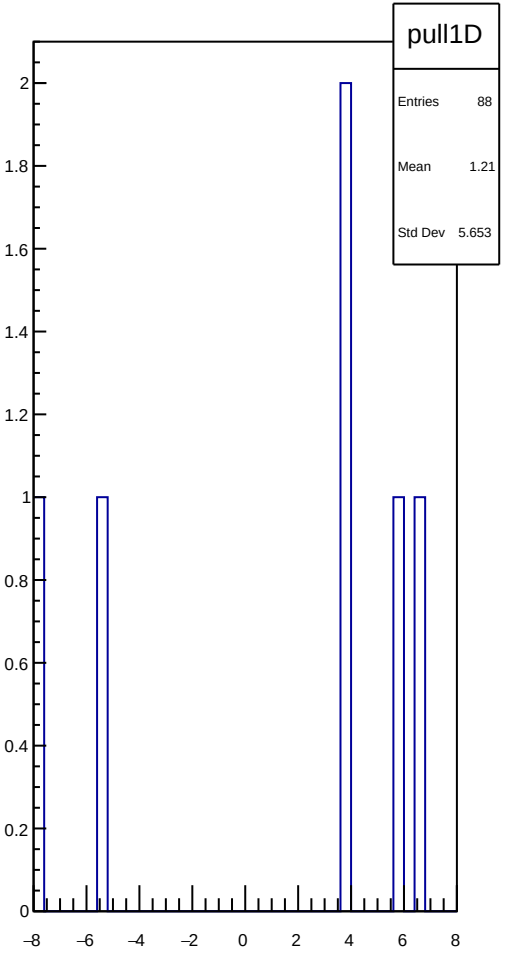

pull1D
Entries 88
Mean 0.9663
Std Dev 6.167
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm1i06Y_rms vs run
χ² / ndf 3.1e+04 / 87
p0 0.007735 ± 6.001e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

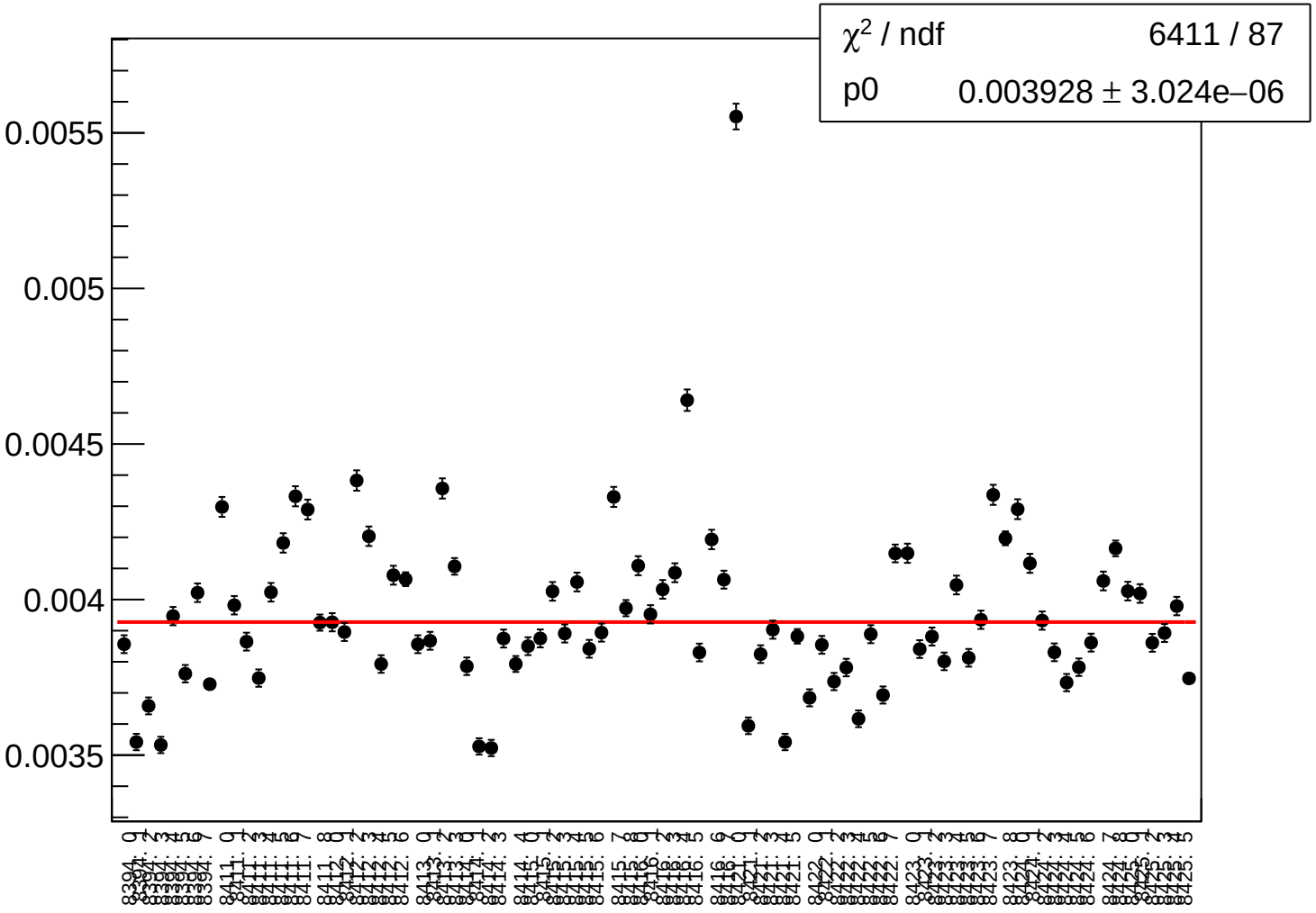

yield_bpm2i01X_mean vs run
χ² / ndf 1.514e+06 / 87
p0 0.8894 ± 5.527e−06
0.9
0.895
0.89
0.885
0.88
0.875
0.87
0.865
pull
Entries 88
Mean −2847
Std Dev 0
200
100
0
−100
−200
−300
−400
pull1D
Entries 88
Mean 0.5119
Std Dev 4.059
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

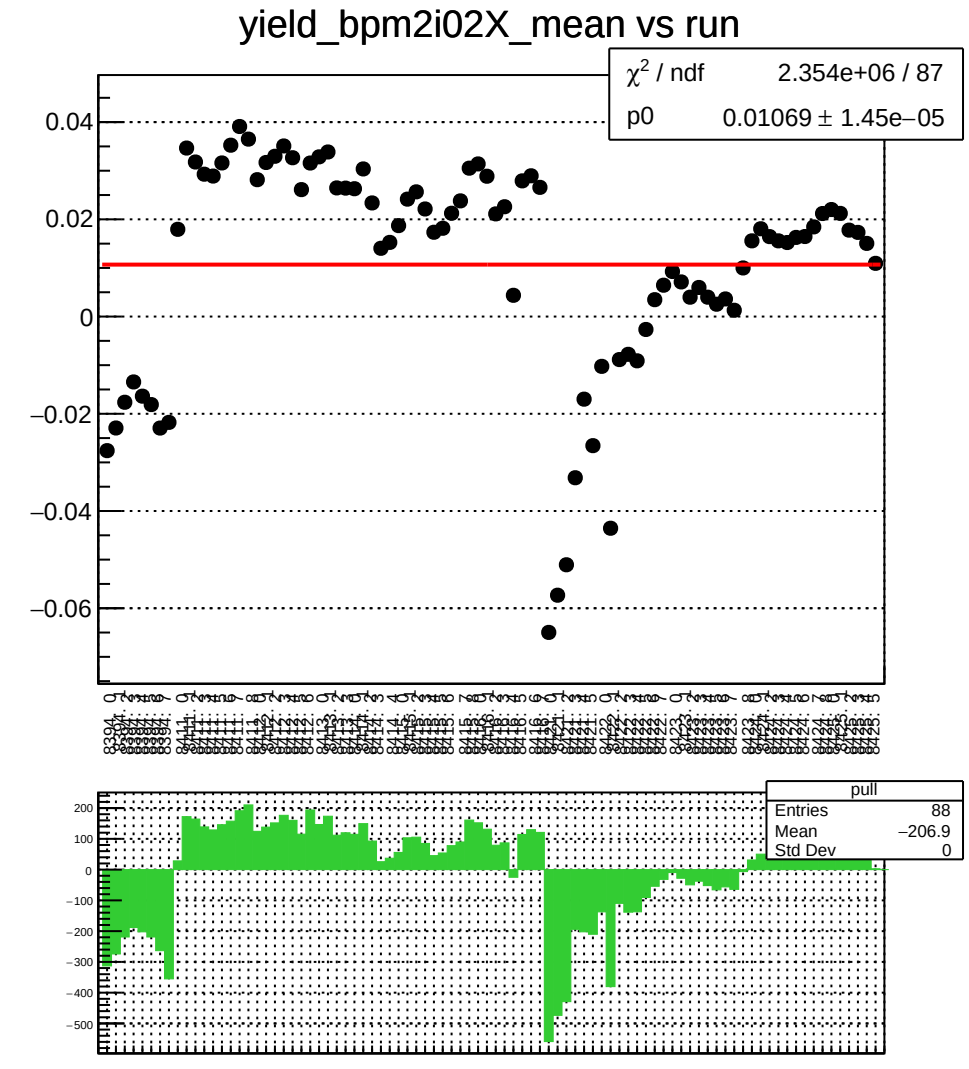

yield_bpm2i01X_rms vs run
χ² / ndf 1.755e+04 / 87
p0 0.005059 ± 3.908e−06
0.009
0.008
0.007
0.006
0.005
0.004

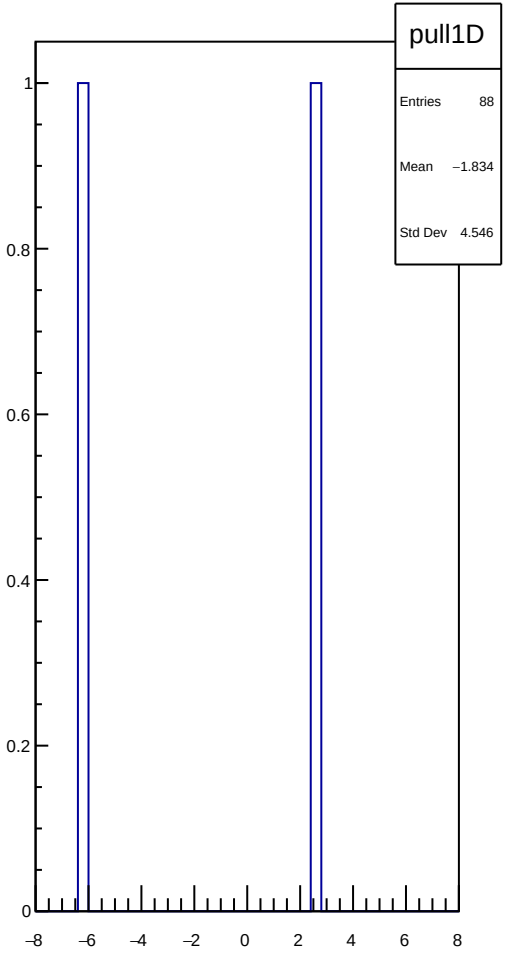

yield_bpm2i01Y_mean vs run
χ² / ndf 1.99e+06 / 87
p0 −4.742 ± 4.277e−06
−4.72
−4.725
−4.73
−4.735
−4.74
−4.745
−4.75
−4.755
−4.76
pull
Entries 88
Mean −553.4
Std Dev 0
300
200
100
0
−100
−200
−300

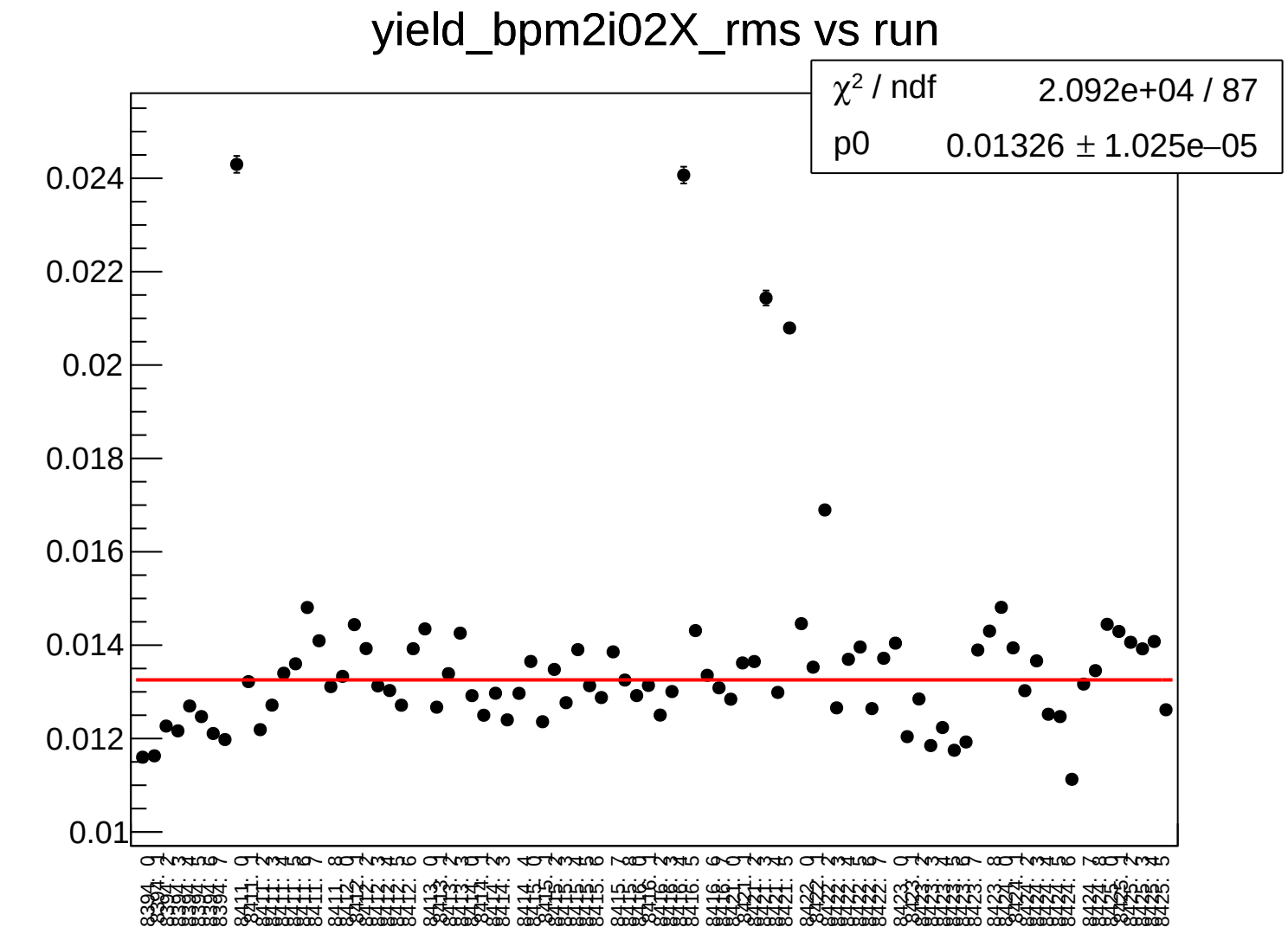

pull1D
Entries 88
Mean 1.21
Std Dev 5.653
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

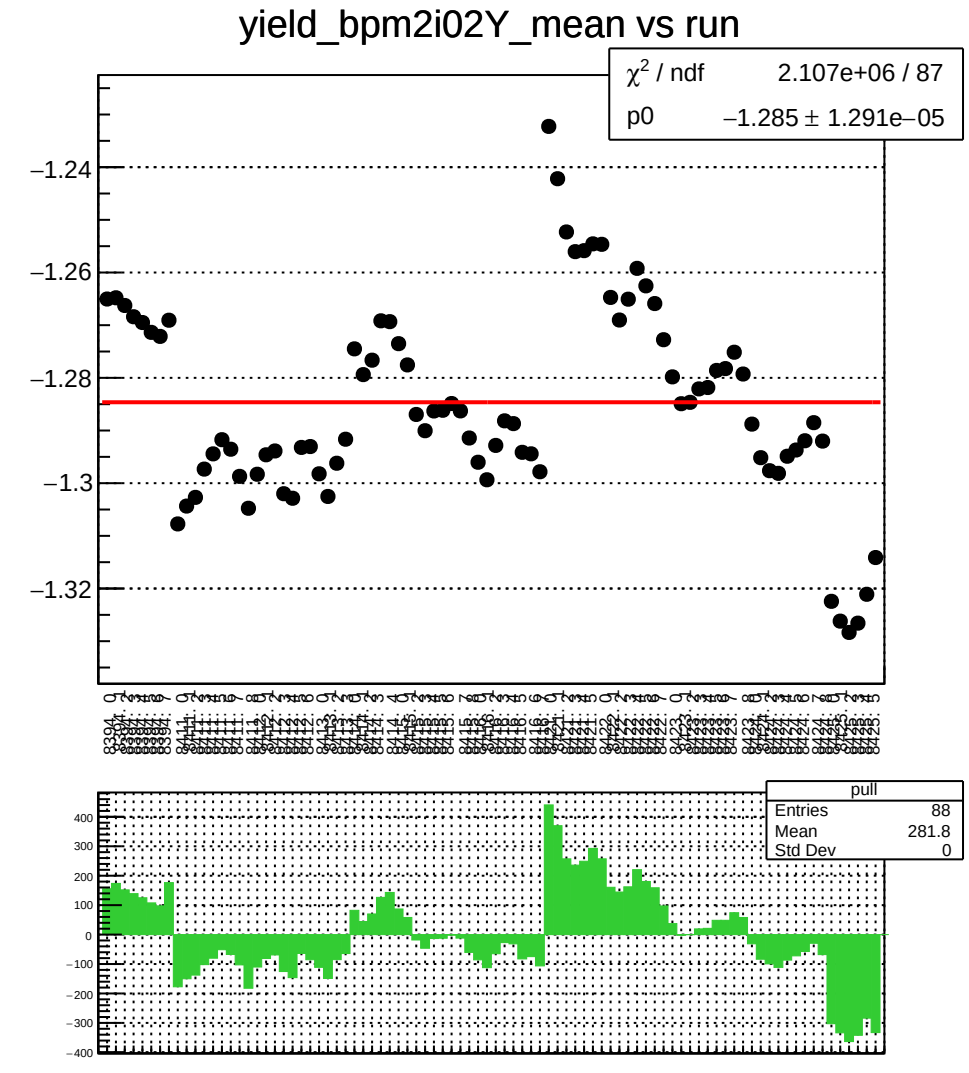
yield_bpm2i01Y_rms vs run

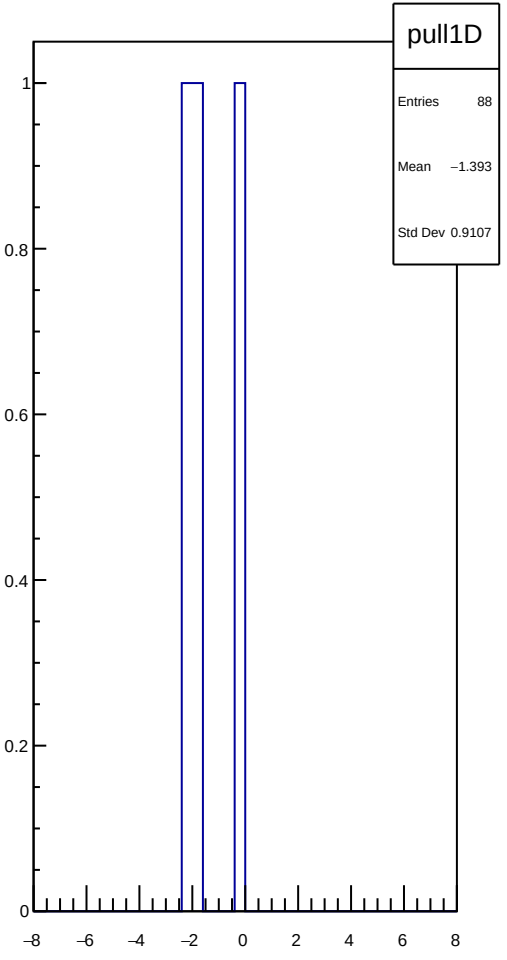


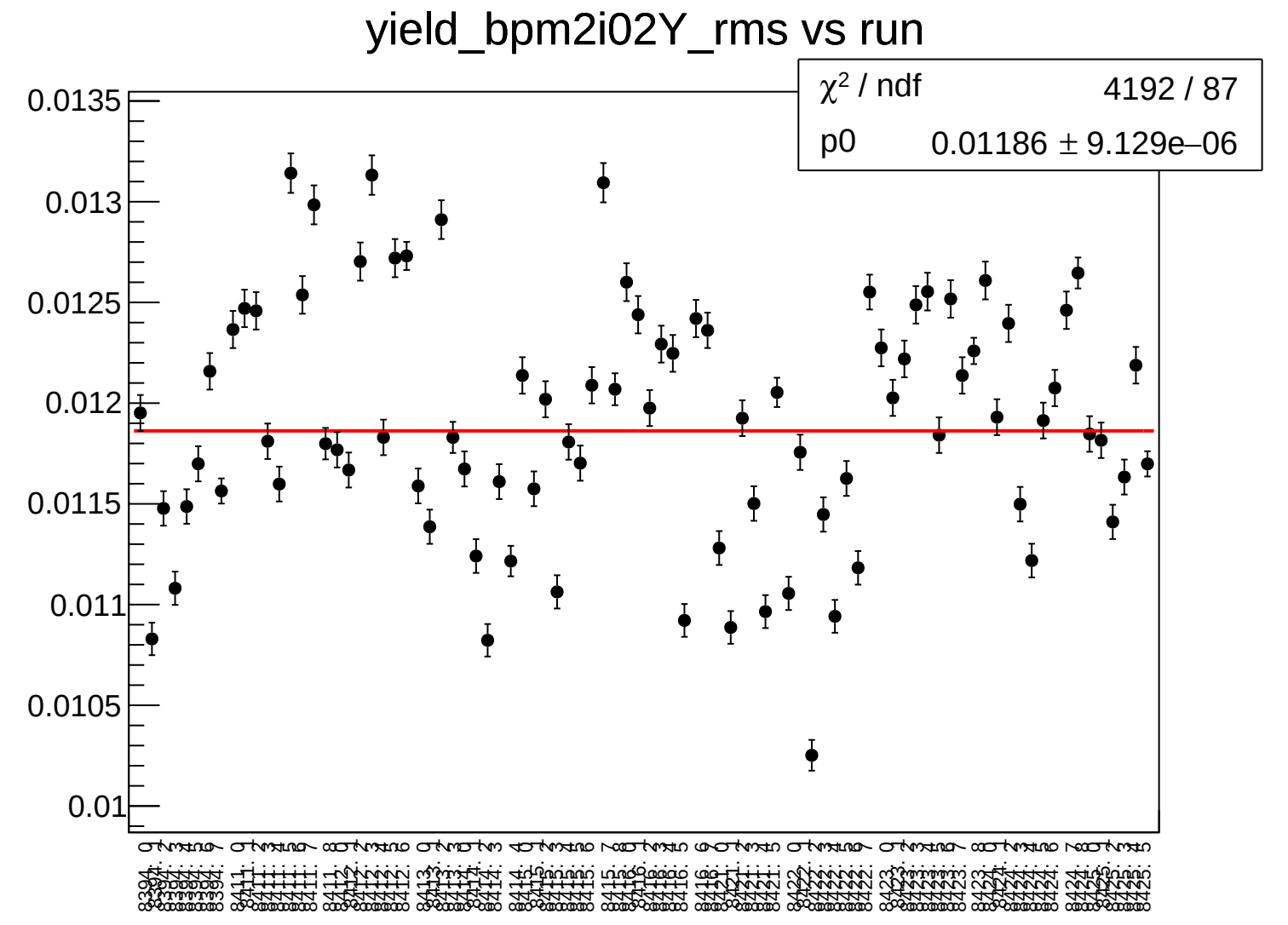

yield_bpm2i02X_mean vs run
χ² / ndf 2.354e+06 / 87
p0 0.01069 ± 1.45e−05
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 88
Mean −206.9
Std Dev 0
200
100
0
−100
−200
−300
−400
−500

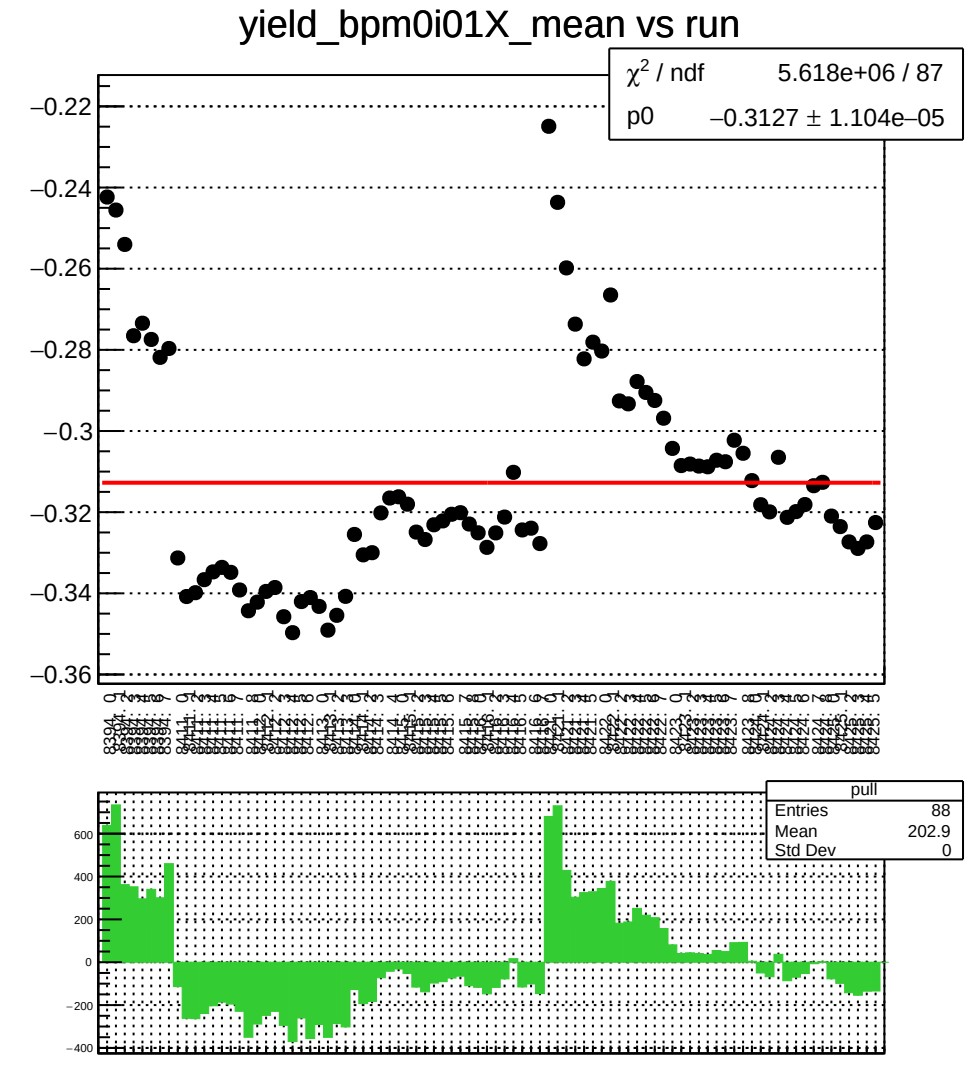

pull1D
Entries 88
Mean −1.834
Std Dev 4.546
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

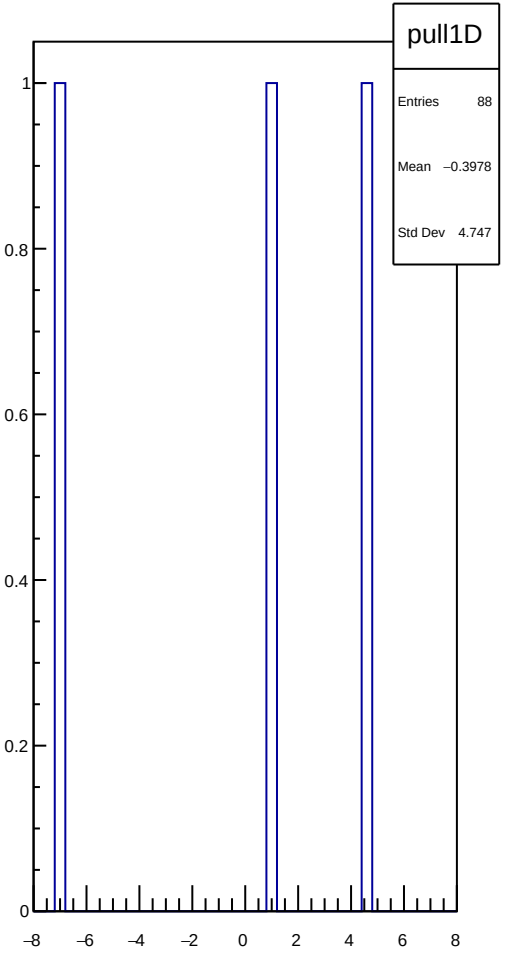

yield_bpm2i02X_rms vs run
χ² / ndf 2.092e+04 / 87
p0 0.01326 ± 1.025e−05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

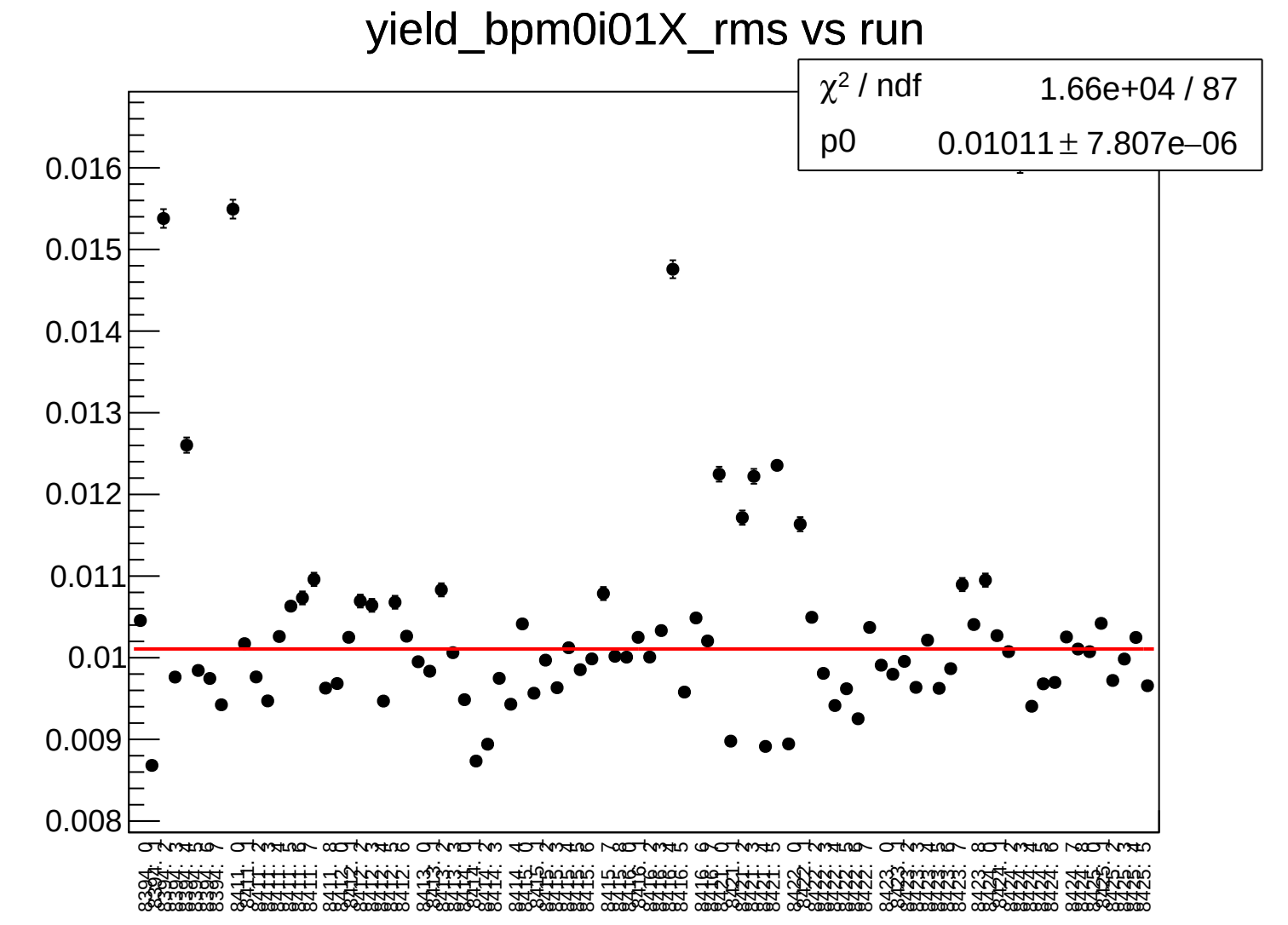

yield_bpm2i02Y_mean vs run
χ² / ndf 2.107e+06 / 87
p0 −1.285 ± 1.291e−05
−1.24
−1.26
−1.28
−1.3
−1.32
pull
Entries 88
Mean 281.8
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

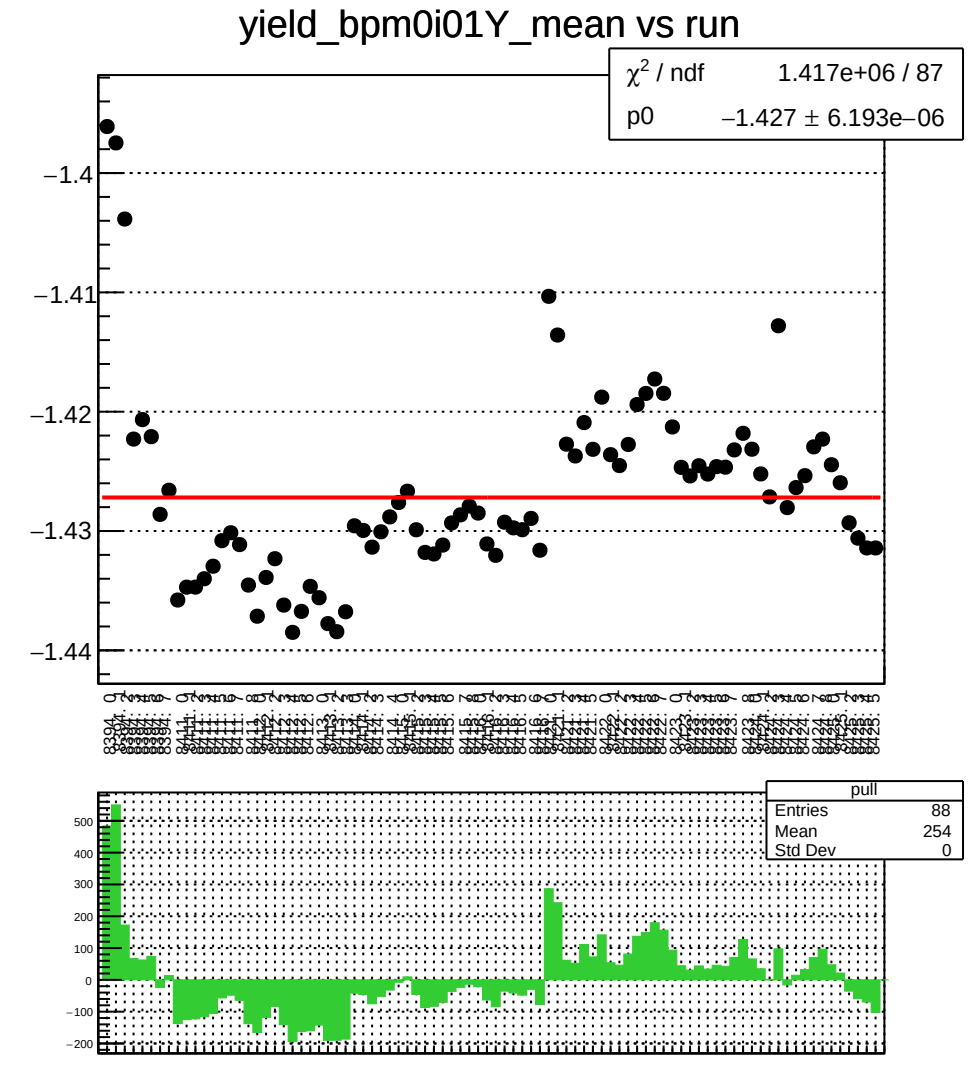

pull1D
Entries 88
Mean −1.393
Std Dev 0.9107
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

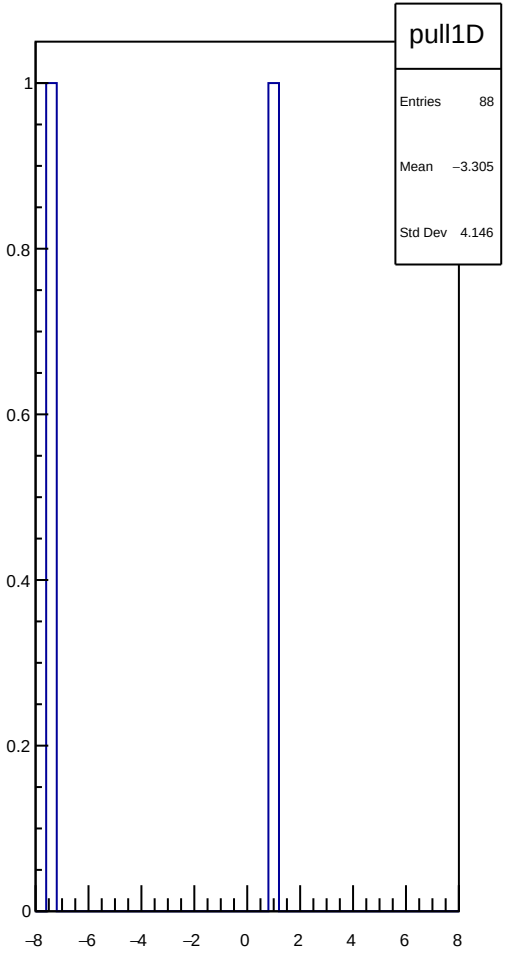

yield_bpm2i02Y_rms vs run
χ² / ndf 4192 / 87
p0 0.01186 ± 9.129e−06
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01

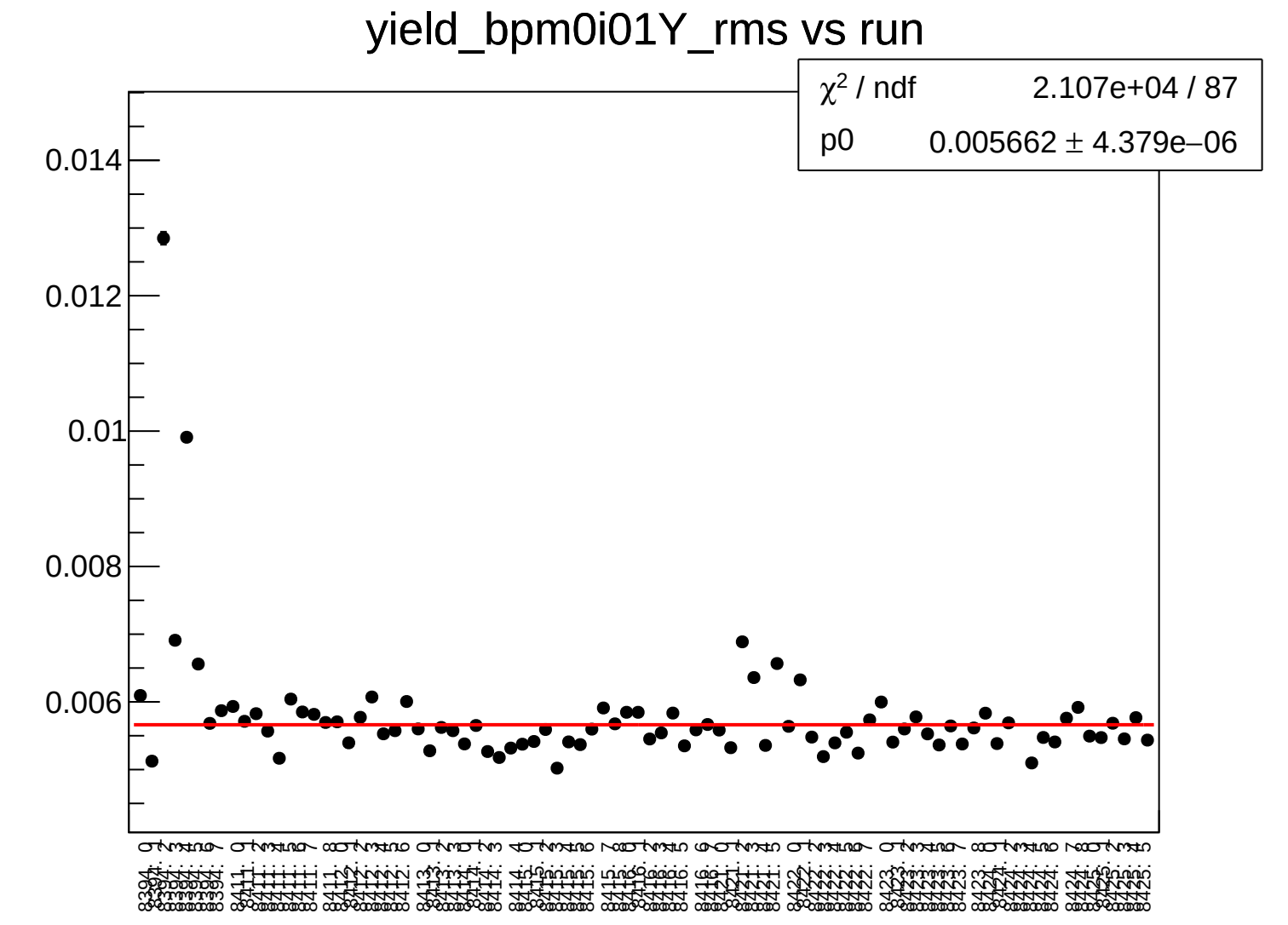

yield_bpm0i01X_mean vs run
χ² / ndf 5.618e+06 / 87
p0 −0.3127 ± 1.104e−05
−0.22
−0.24
−0.26
−0.28
−0.3
−0.32
−0.34
−0.36
pull
Entries 88
Mean 202.9
Std Dev 0
600
400
200
0
−200
−400

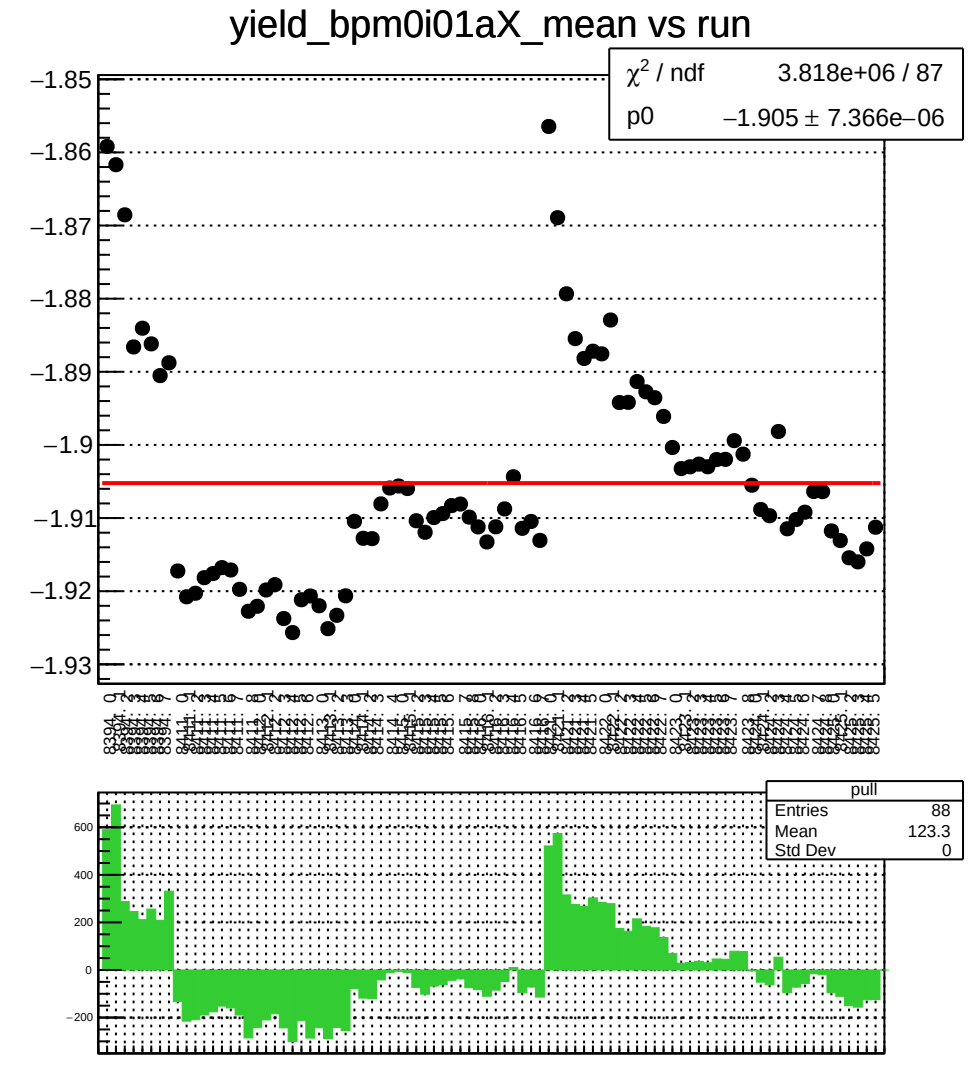

pull1D
Entries 88
Mean −0.3978
Std Dev 4.747
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

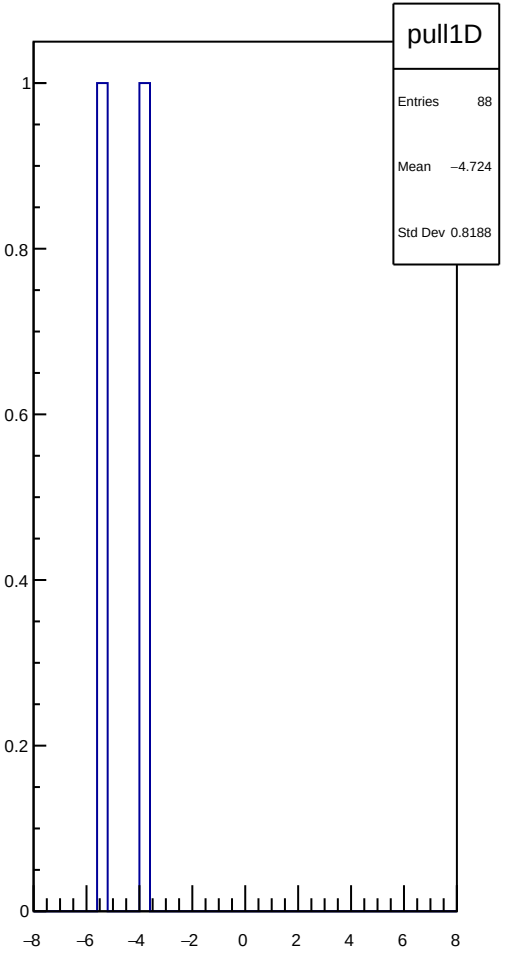

yield_bpm0i01X_rms vs run
χ² / ndf 1.66e+04 / 87
p0 0.01011 ± 7.807e–06
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008

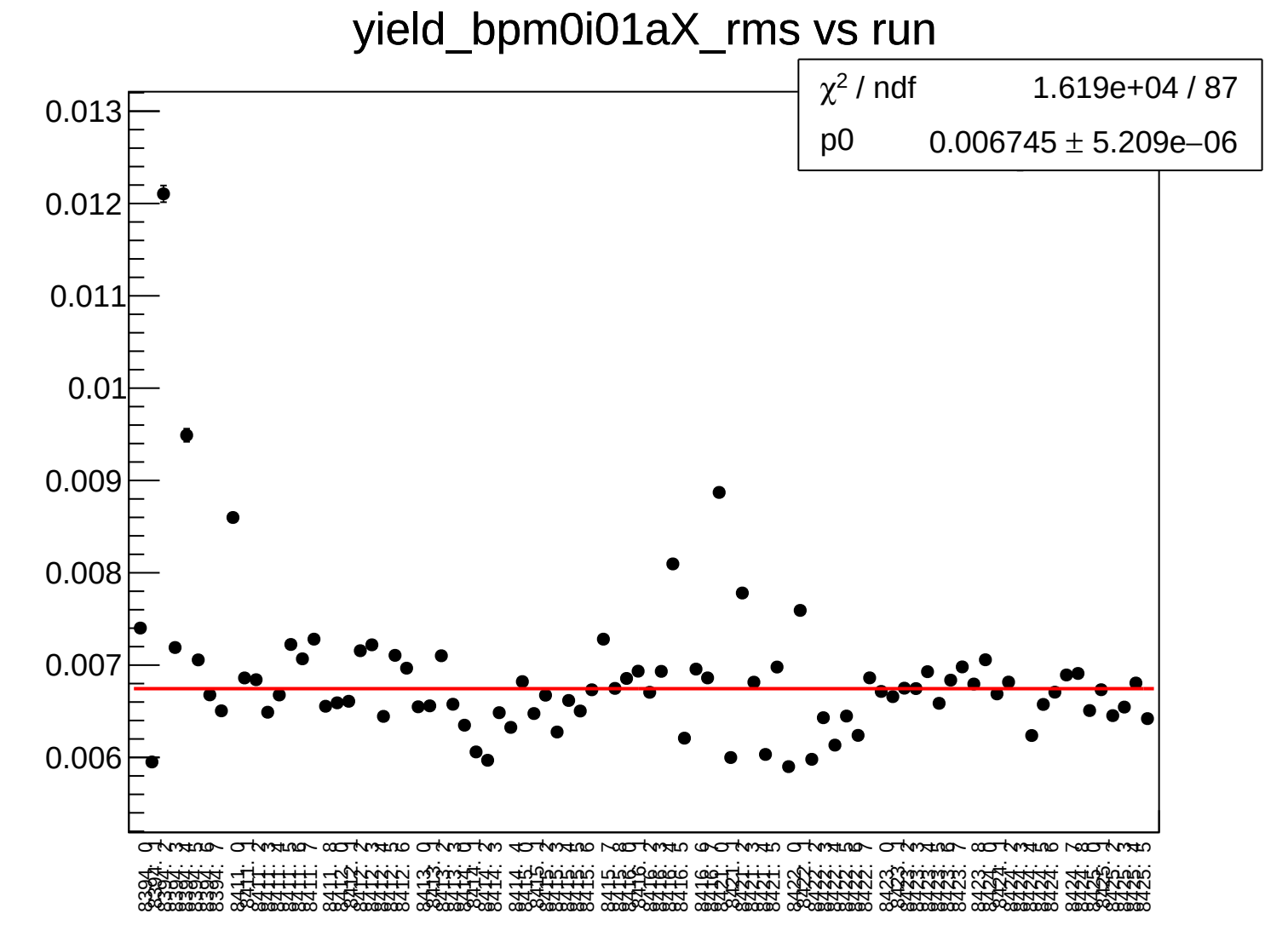

yield_bpm0i01Y_mean vs run
χ² / ndf 1.417e+06 / 87
p0 −1.427 ± 6.193e−06
−1.4
−1.41
−1.42
−1.43
−1.44
pull
Entries 88
Mean 254
Std Dev 0
500
400
300
200
100
0
−100
−200

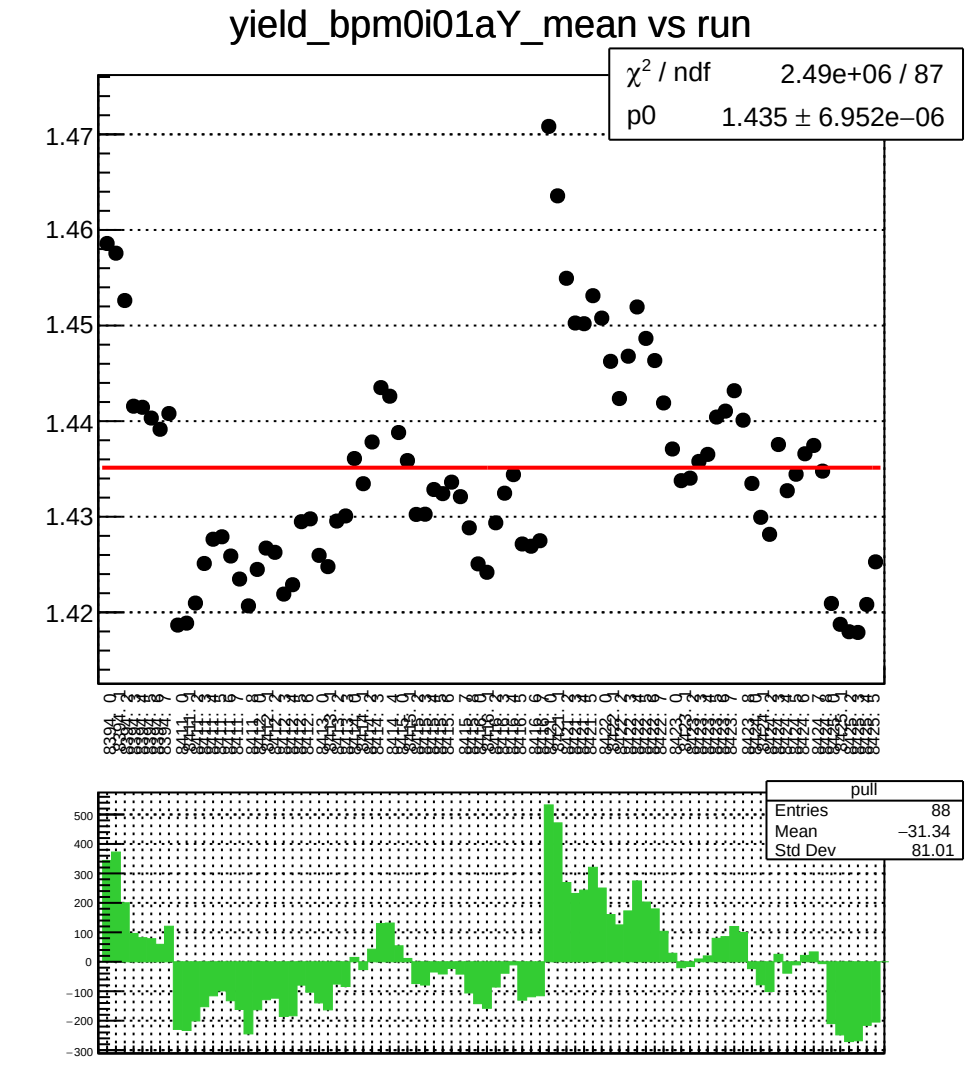

pull1D
Entries 88
Mean −3.305
Std Dev 4.146
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

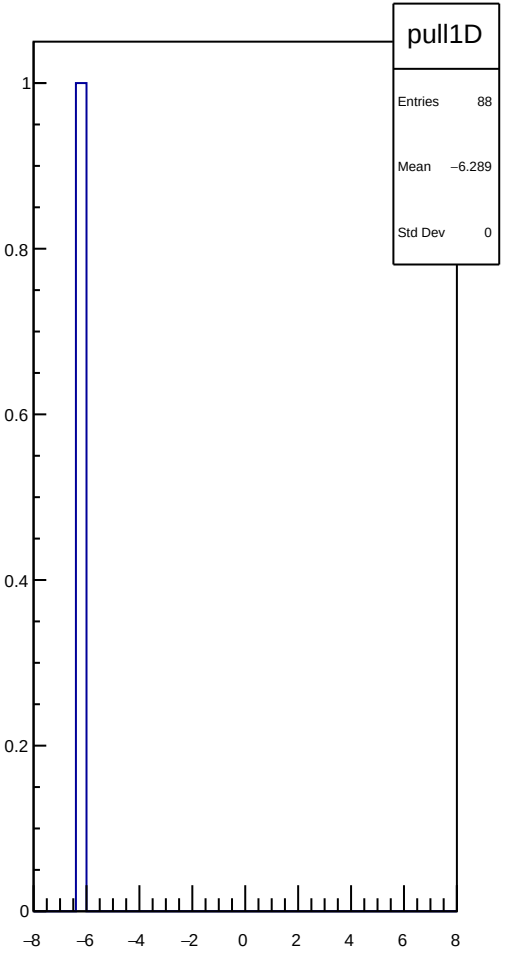

yield_bpm0i01Y_rms vs run
χ² / ndf 2.107e+04 / 87
p0 0.005662 ± 4.379e−06
0.014
0.012
0.01
0.008
0.006

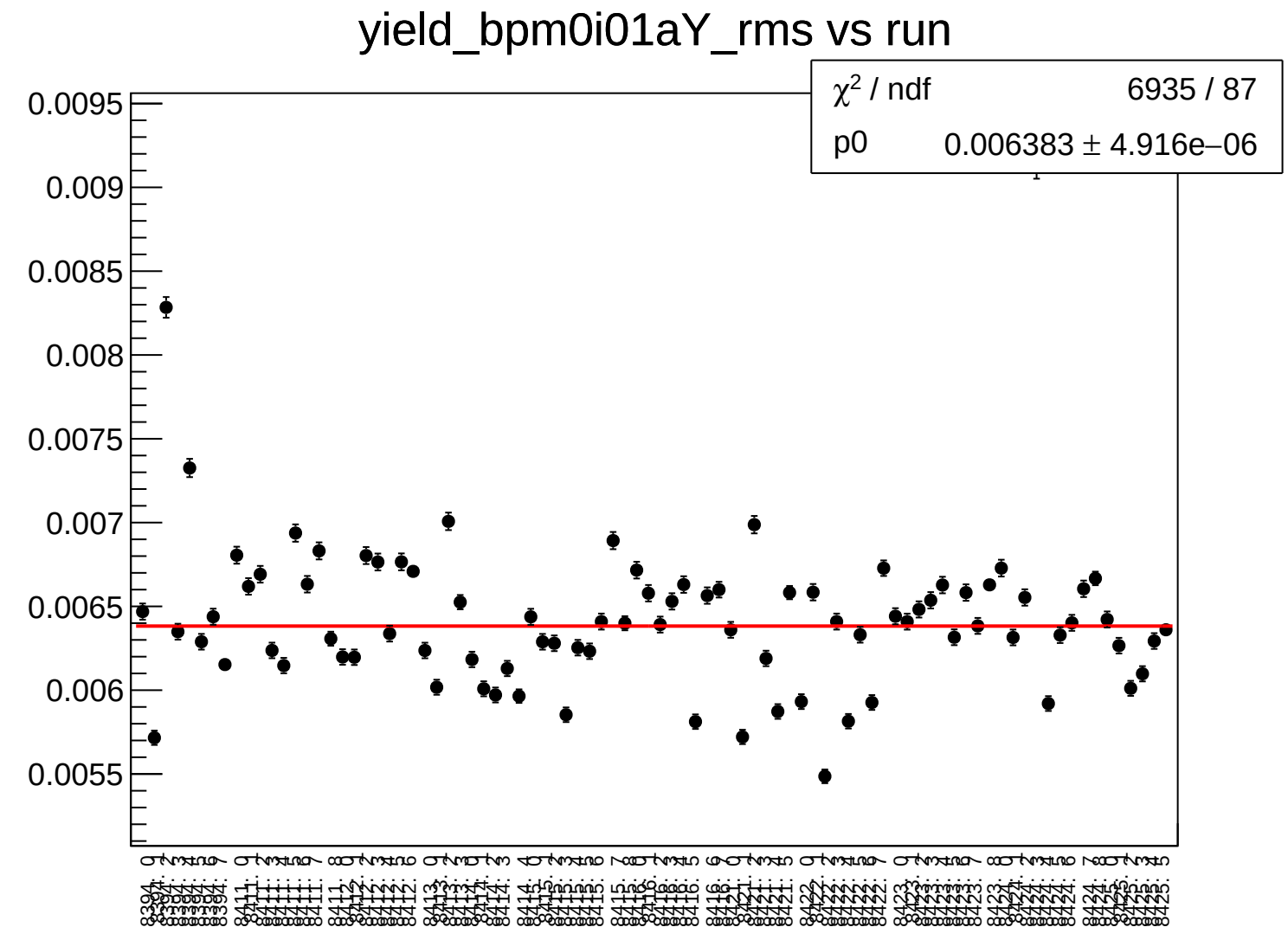

yield_bpm0i01aX_mean vs run
χ² / ndf 3.818e+06 / 87
p0 −1.905 ± 7.366e−06
−1.85
−1.86
−1.87
−1.88
−1.89
−1.9
−1.91
−1.92
−1.93
pull
Entries 88
Mean 123.3
Std Dev 0
600
400
200
0
−200

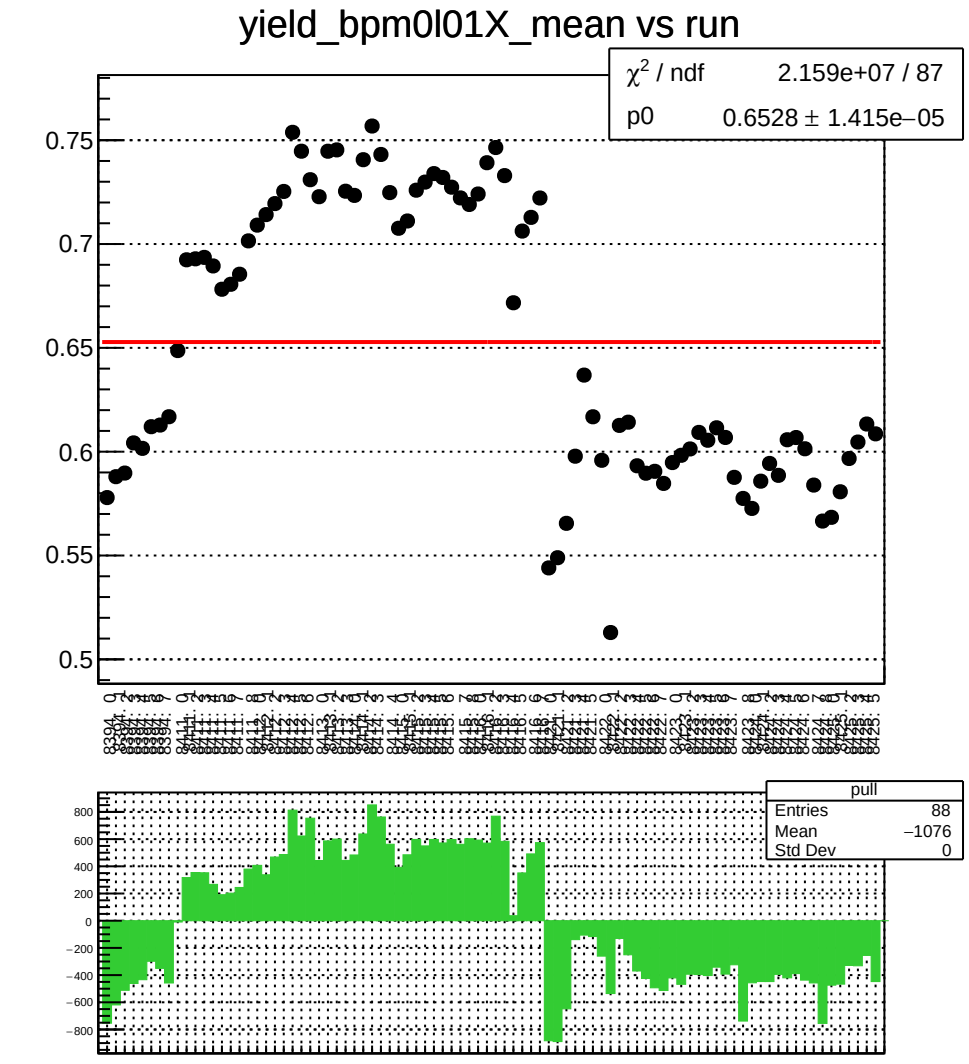

pull1D
Entries 88
Mean −4.724
Std Dev 0.8188
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

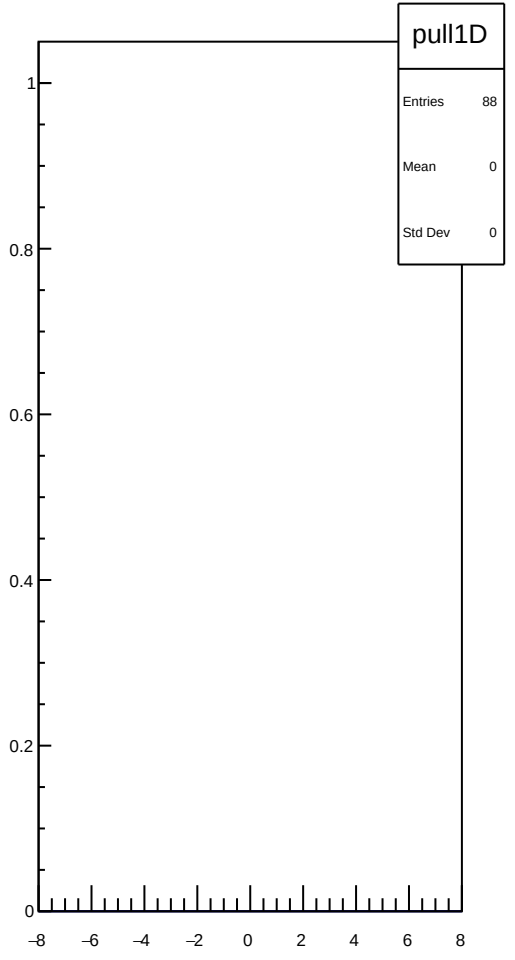

yield_bpm0i01aX_rms vs run
χ² / ndf 1.619e+04 / 87
p0 0.006745 ± 5.209e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

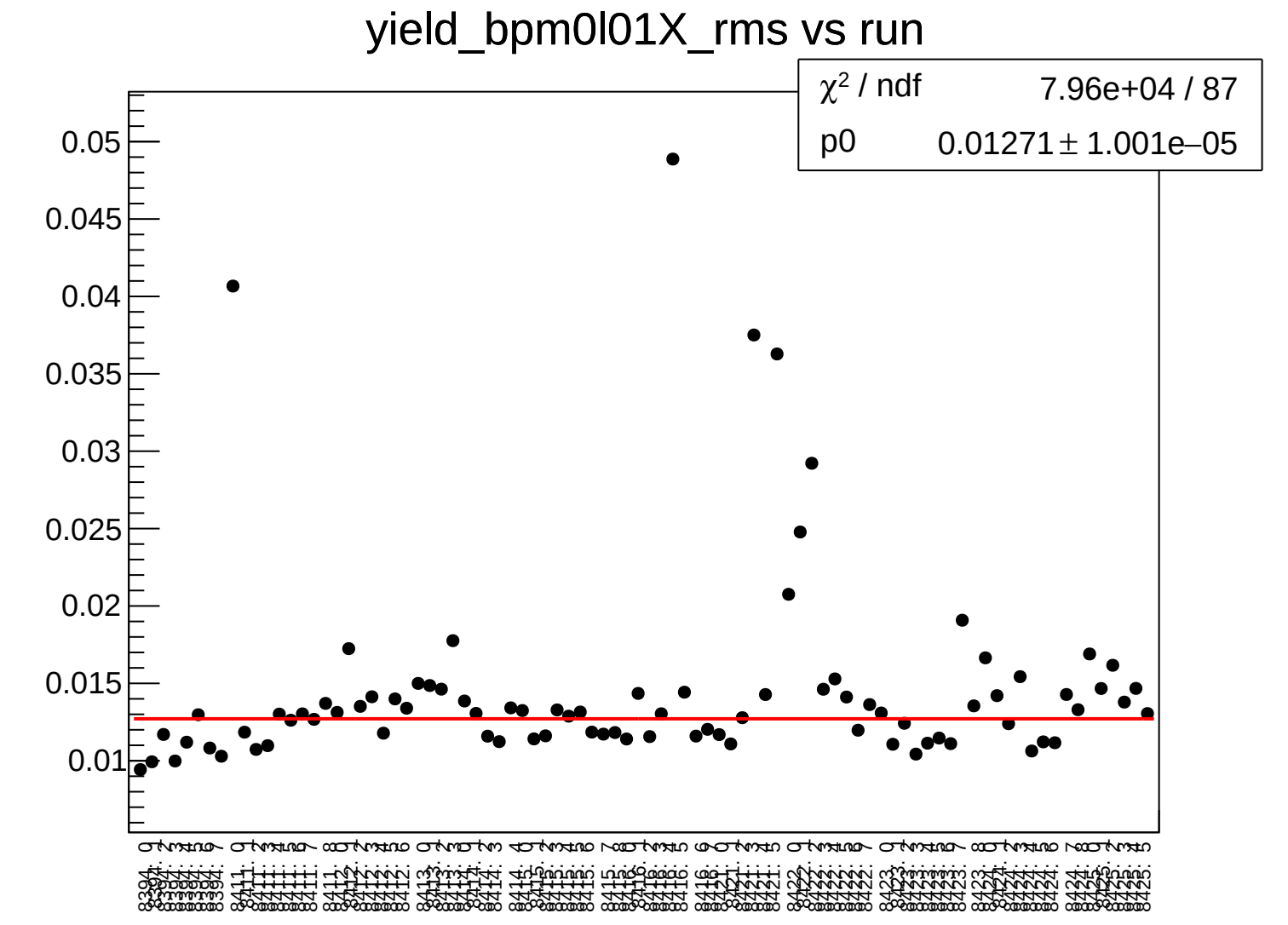

yield_bpm0i01aY_mean vs run
χ² / ndf 2.49e+06 / 87
p0 1.435 ± 6.952e−06
1.47
1.46
1.45
1.44
1.43
1.42
pull
Entries 88
Mean −31.34
Std Dev 81.01
500
400
300
200
100
0
−100
−200
−300

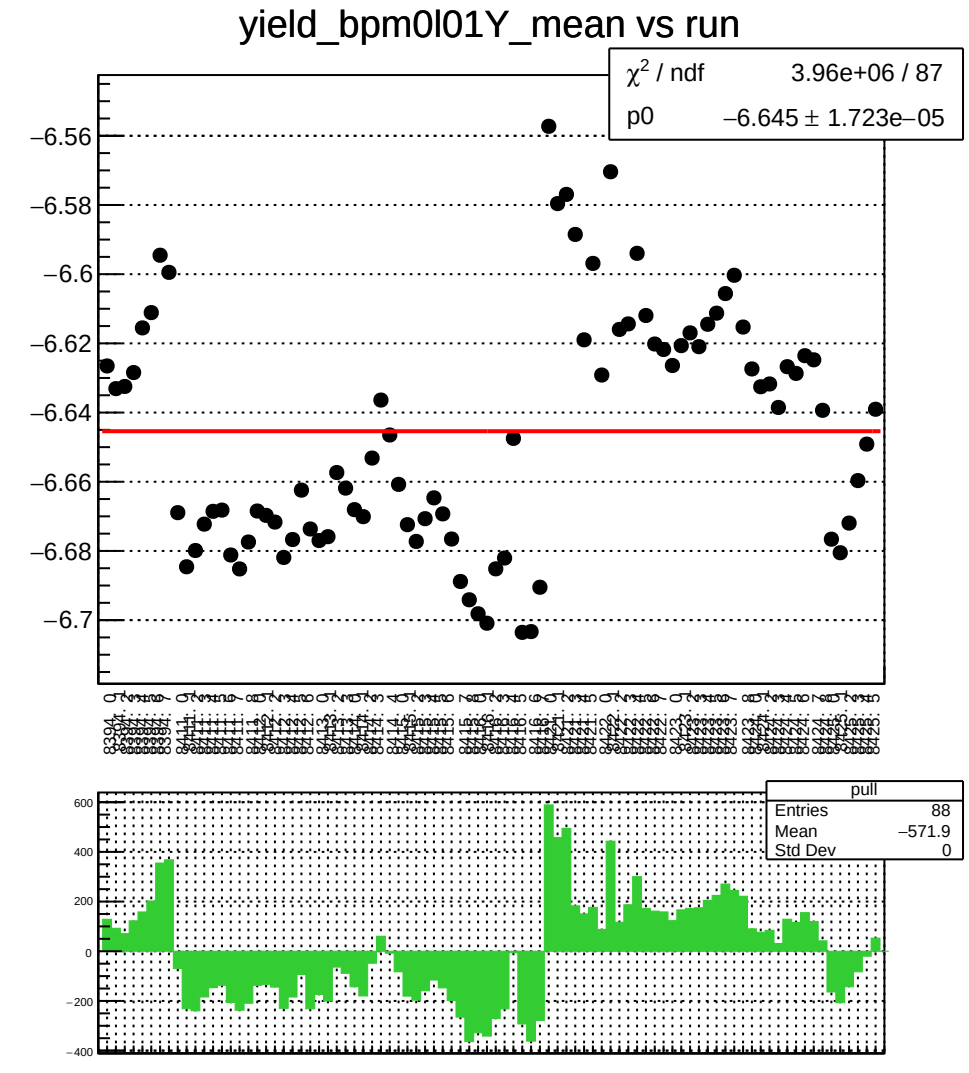

pull1D
Entries 88
Mean −6.289
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

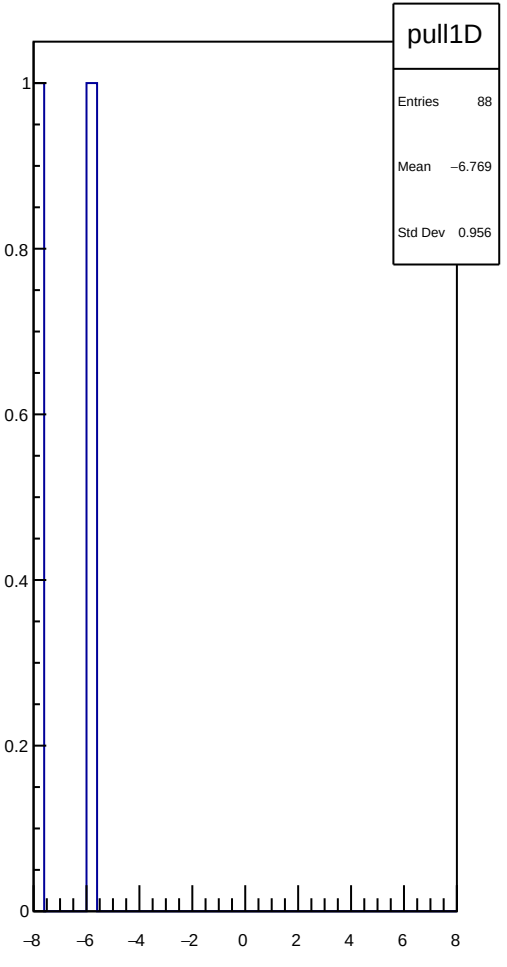

yield_bpm0i01aY_rms vs run
χ² / ndf 6935 / 87
p0 0.006383 ± 4.916e−06
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055

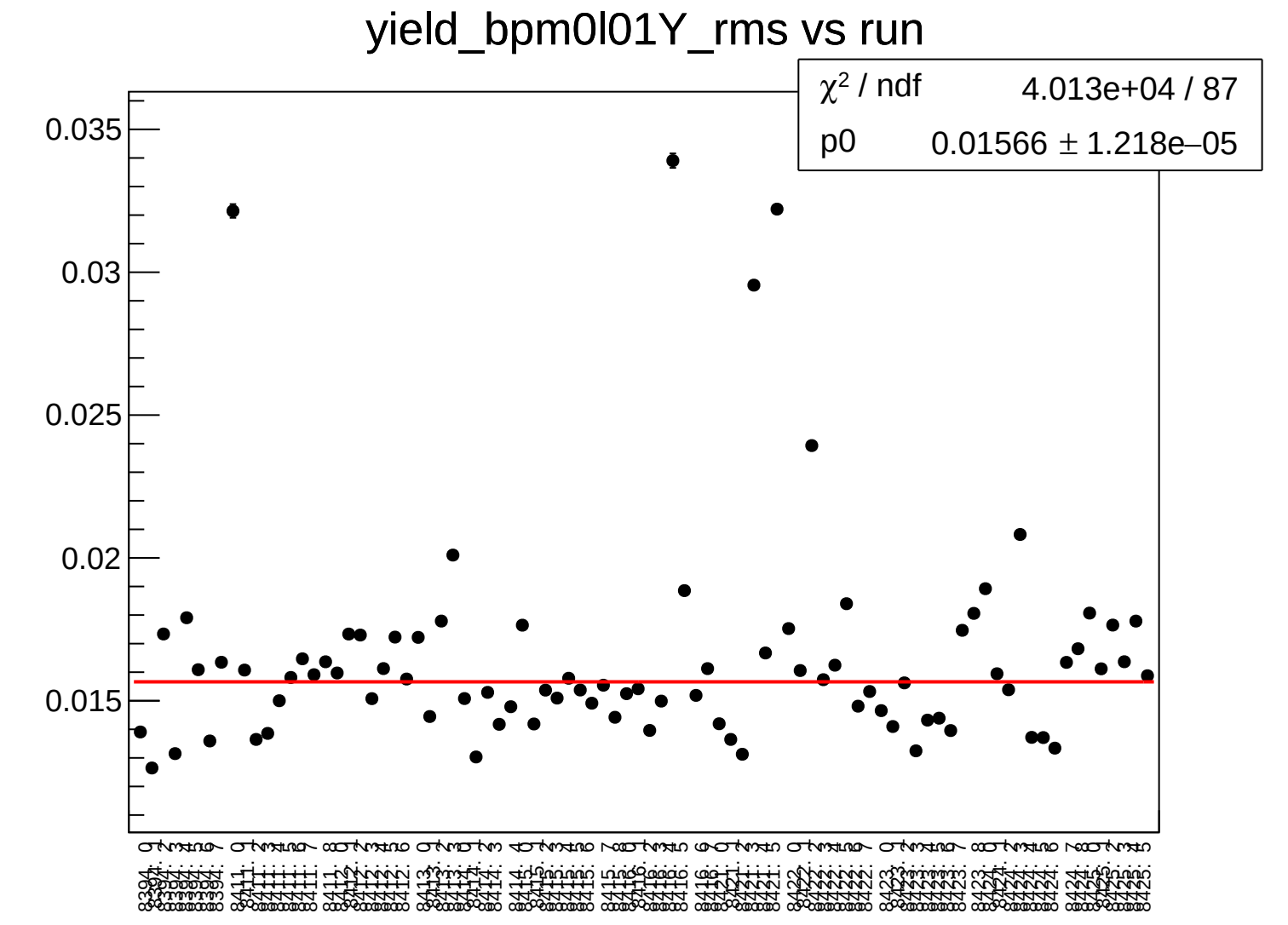

yield_bpm0l01X_mean vs run
χ² / ndf 2.159e+07 / 87
p0 0.6528 ± 1.415e−05
0.75
0.7
0.65
0.6
0.55
0.5
pull
Entries 88
Mean −1076
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

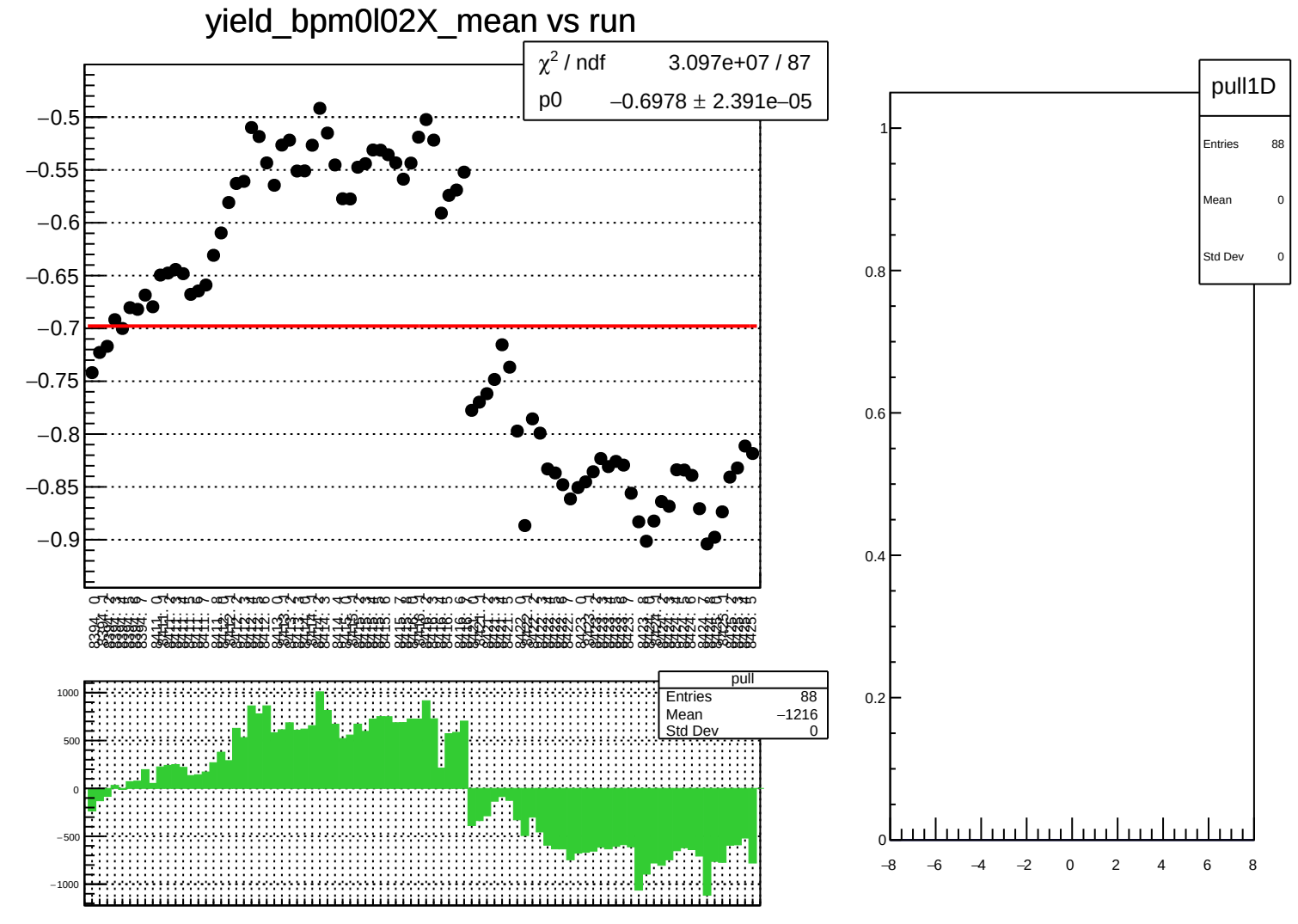

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

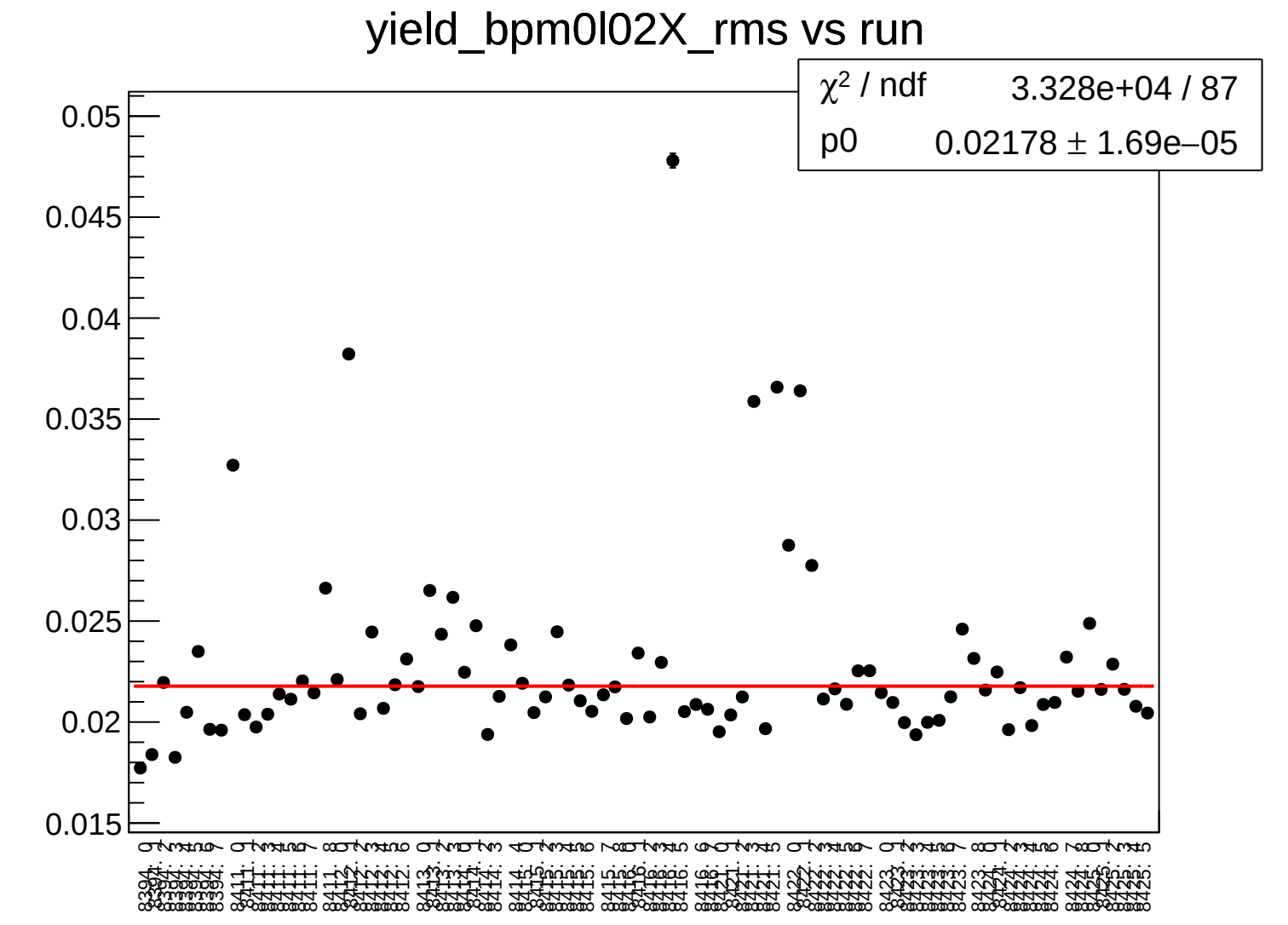

yield_bpm0l01X_rms vs run
χ² / ndf 7.96e+04 / 87
p0 0.01271 ± 1.001e–05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

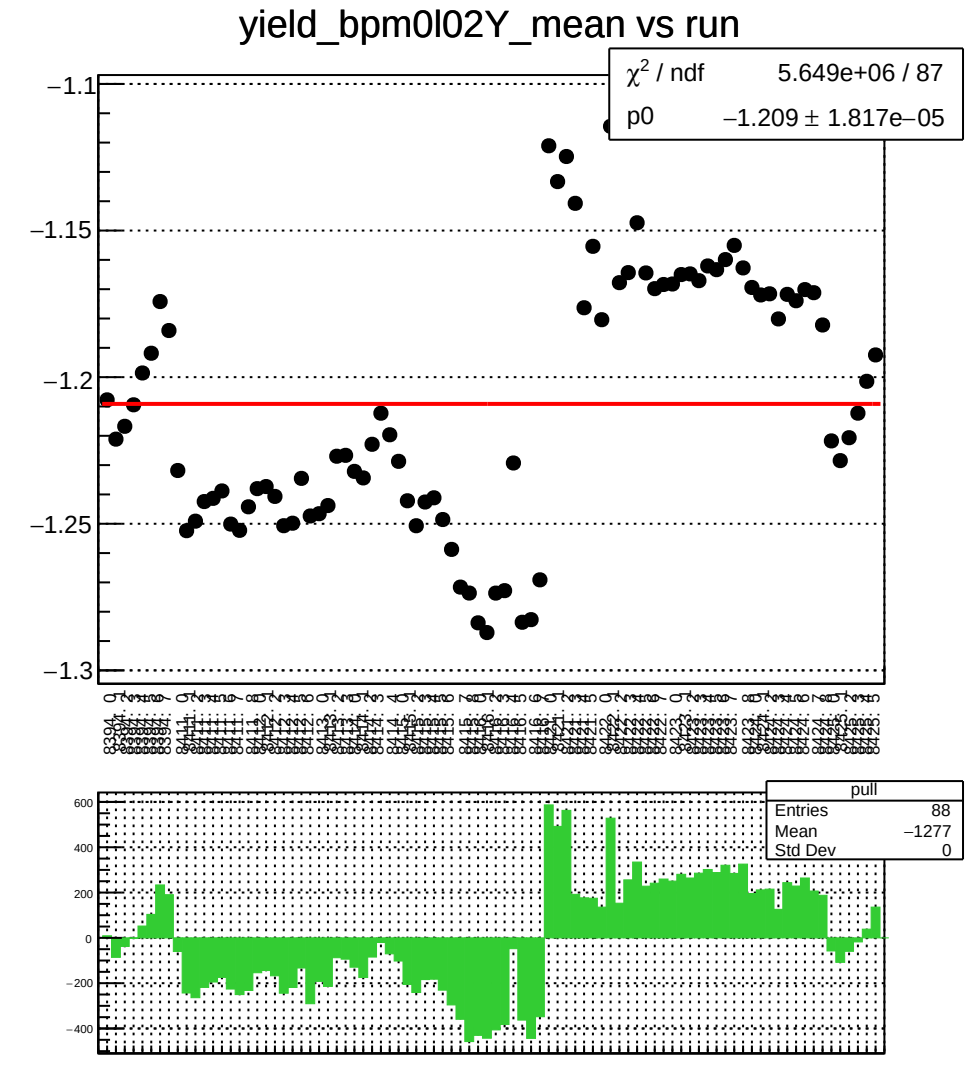

yield_bpm0l01Y_mean vs run
χ² / ndf 3.96e+06 / 87
p0 −6.645 ± 1.723e−05
−6.56
−6.58
−6.6
−6.62
−6.64
−6.66
−6.68
−6.7
pull
Entries 88
Mean −571.9
Std Dev 0
600
400
200
0
−200
−400

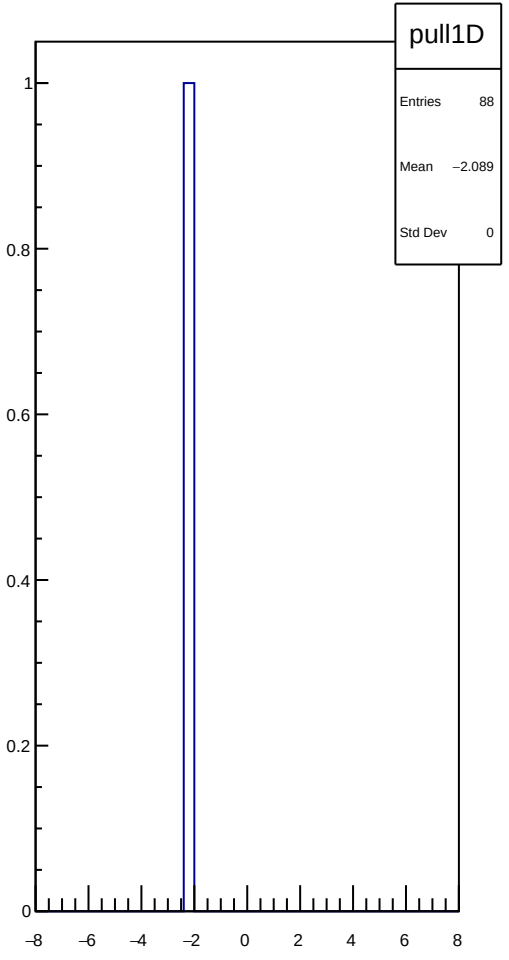

pull1D
Entries 88
Mean −6.769
Std Dev 0.956
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

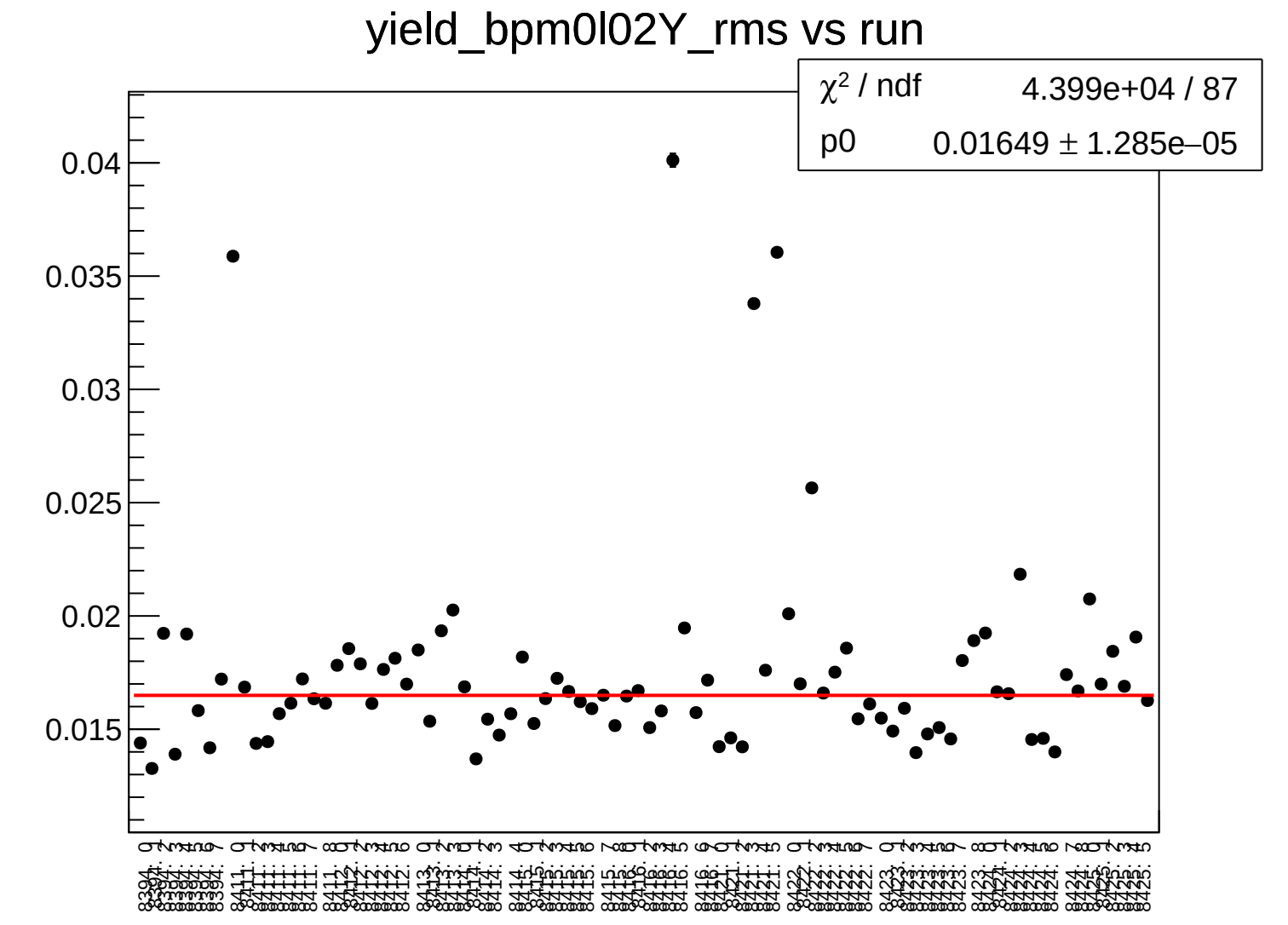

yield_bpm0l01Y_rms vs run
χ² / ndf 4.013e+04 / 87
p0 0.01566 ± 1.218e−05
0.035
0.03
0.025
0.02
0.015

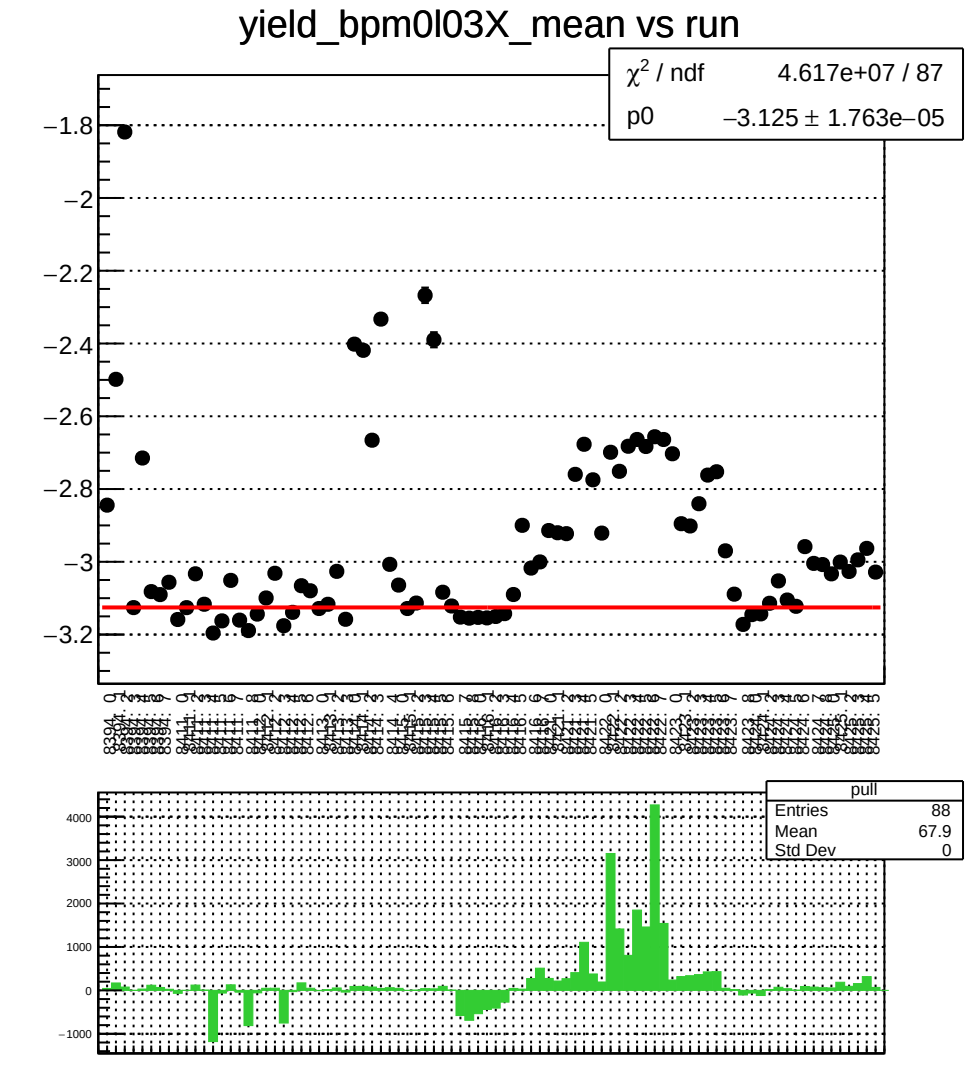

yield_bpm0l02X_mean vs run
χ² / ndf 3.097e+07 / 87
p0 −0.6978 ± 2.391e−05
−0.5
−0.55
−0.6
−0.65
−0.7
−0.75
−0.8
−0.85
−0.9
pull
Entries 88
Mean −1216
Std Dev 0
1000
500
0
−500
−1000
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

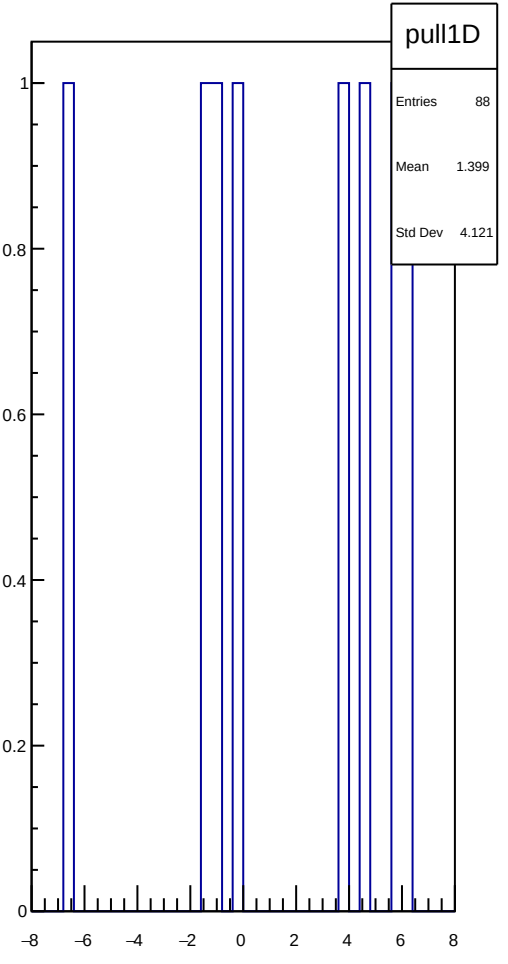

yield_bpm0l02X_rms vs run
χ² / ndf 3.328e+04 / 87
p0 0.02178 ± 1.69e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

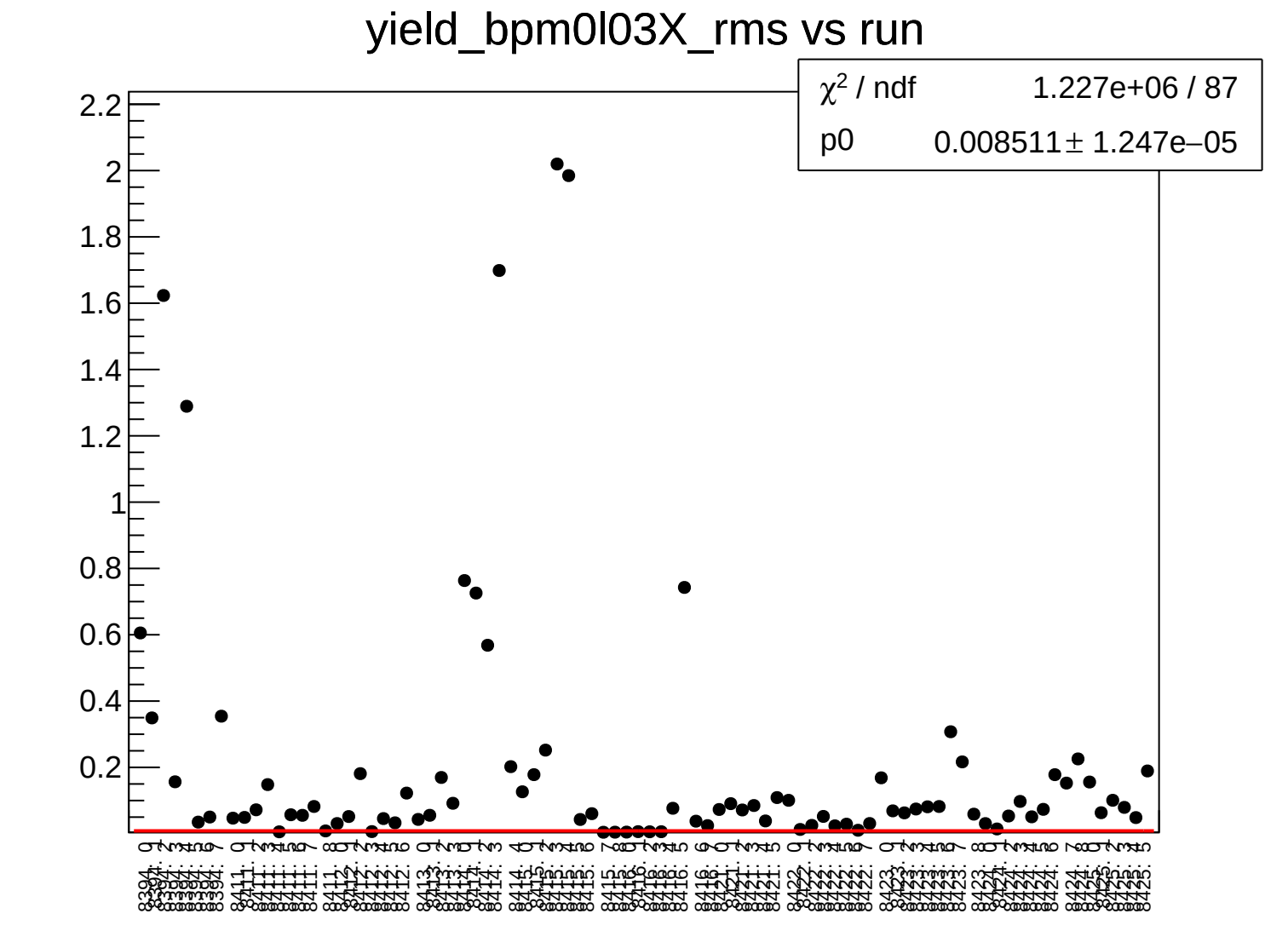

yield_bpm0l02Y_mean vs run
χ² / ndf 5.649e+06 / 87
p0 −1.209 ± 1.817e−05
−1.1
−1.15
−1.2
−1.25
−1.3
pull
Entries 88
Mean −1277
Std Dev 0
600
400
200
0
−200
−400

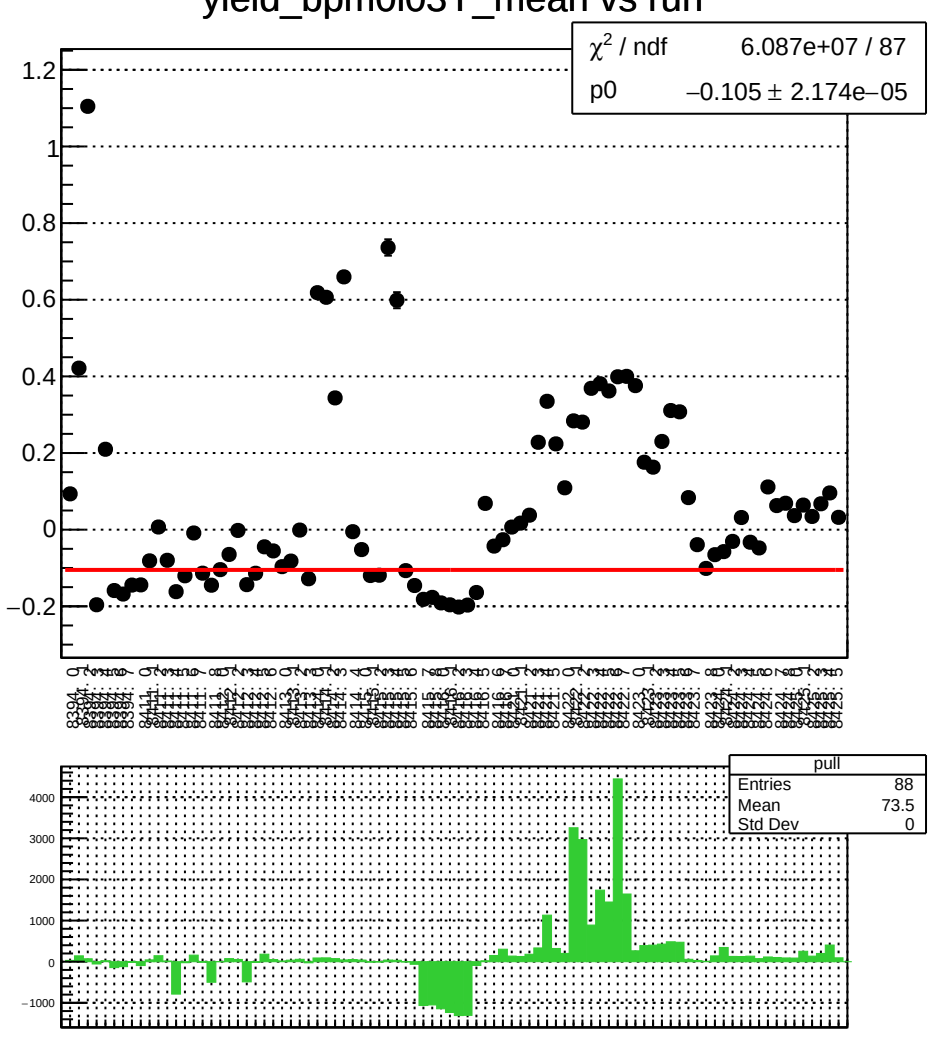

pull1D
Entries 88
Mean −2.089
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

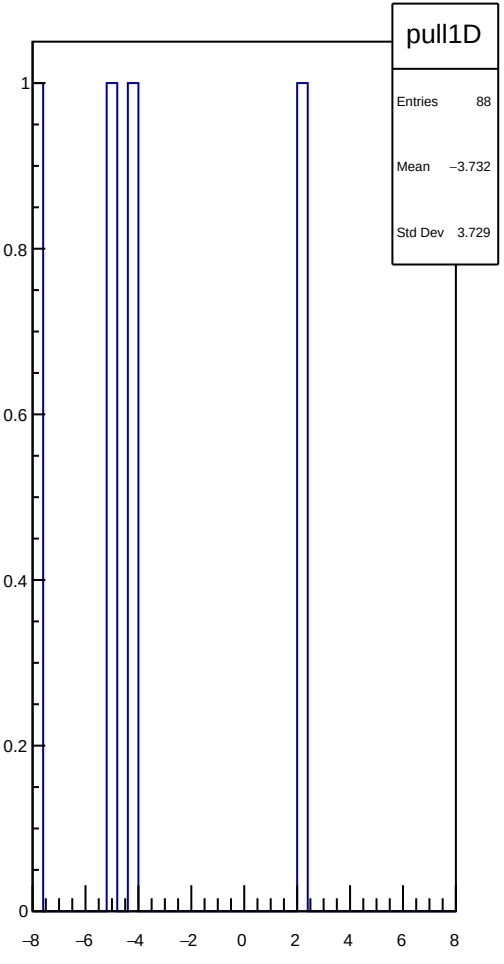

yield_bpm0l02Y_rms vs run
χ² / ndf 4.399e+04 / 87
p0 0.01649 ± 1.285e−05
0.04
0.035
0.03
0.025
0.02
0.015

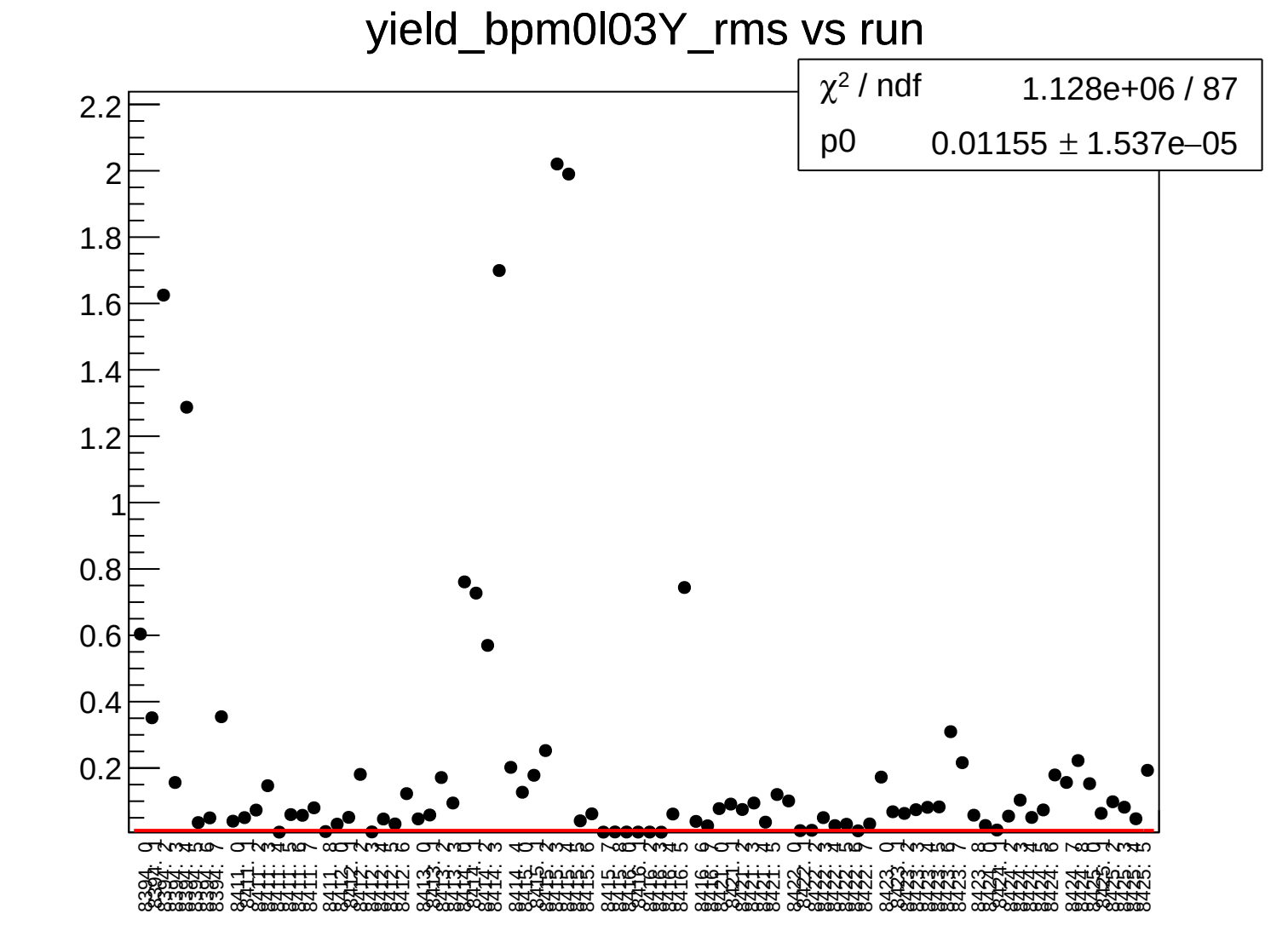

yield_bpm0l03X_mean vs run
χ² / ndf 4.617e+07 / 87
p0 −3.125 ± 1.763e−05
−1.8
−2
−2.2
−2.4
−2.6
−2.8
−3
−3.2
pull
Entries 88
Mean 67.9
Std Dev 0
4000
3000
2000
1000
0
−1000

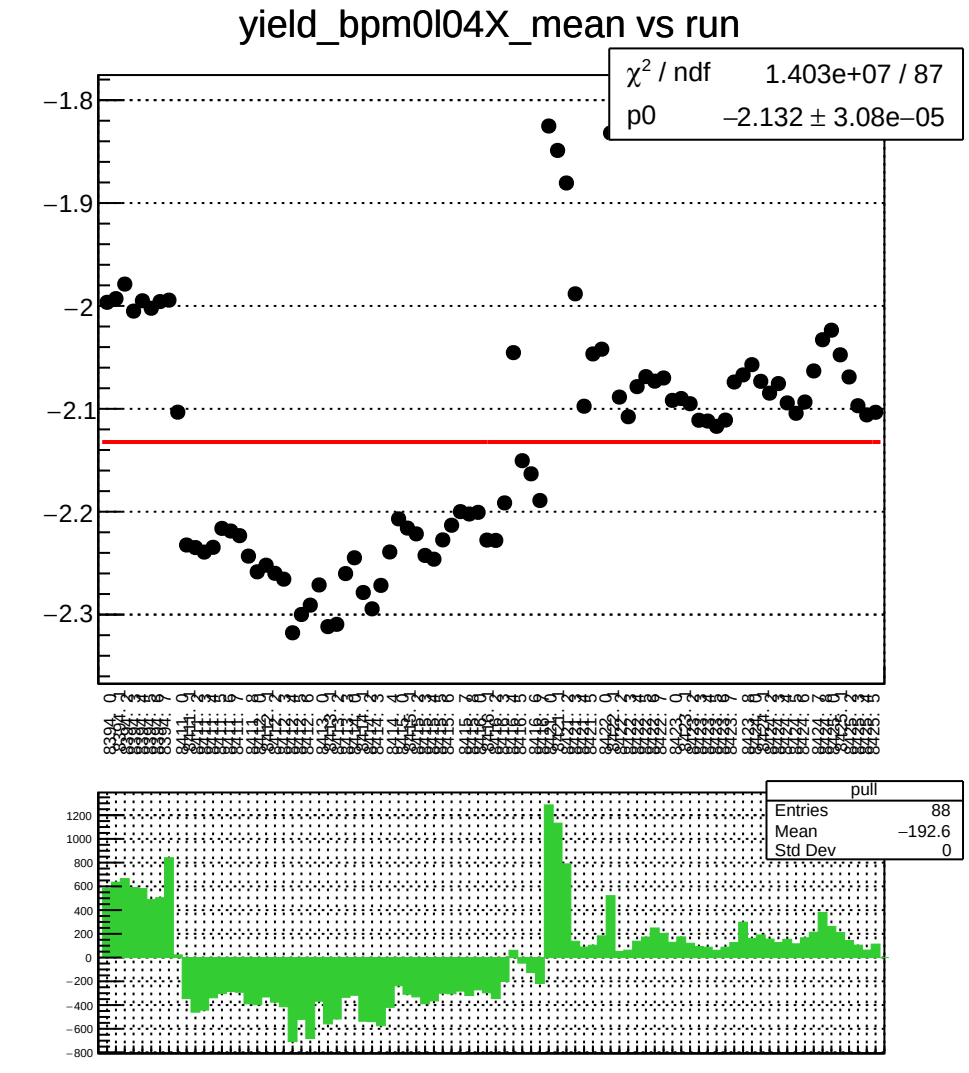

pull1D
Entries 88
Mean 1.399
Std Dev 4.121
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

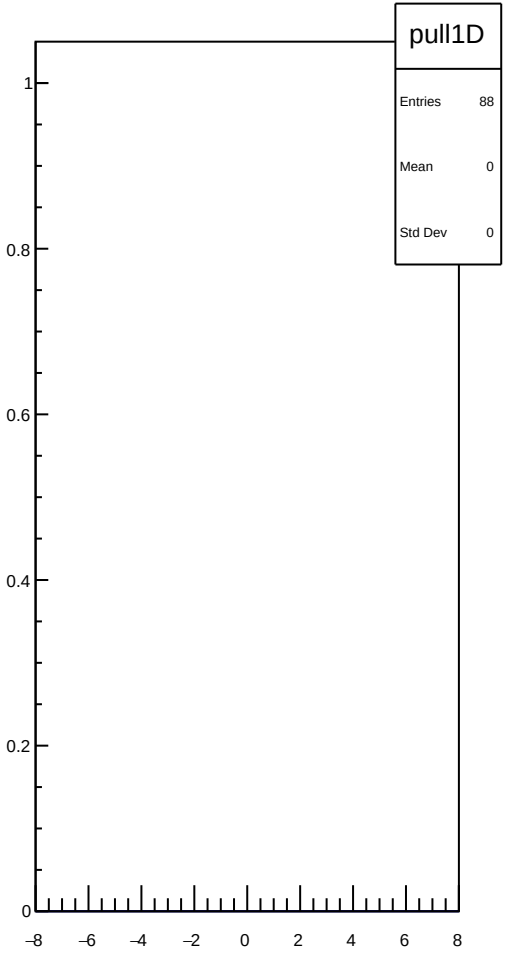

yield_bpm0l03X_rms vs run
χ² / ndf 1.227e+06 / 87
p0 0.008511 ± 1.247e−05
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

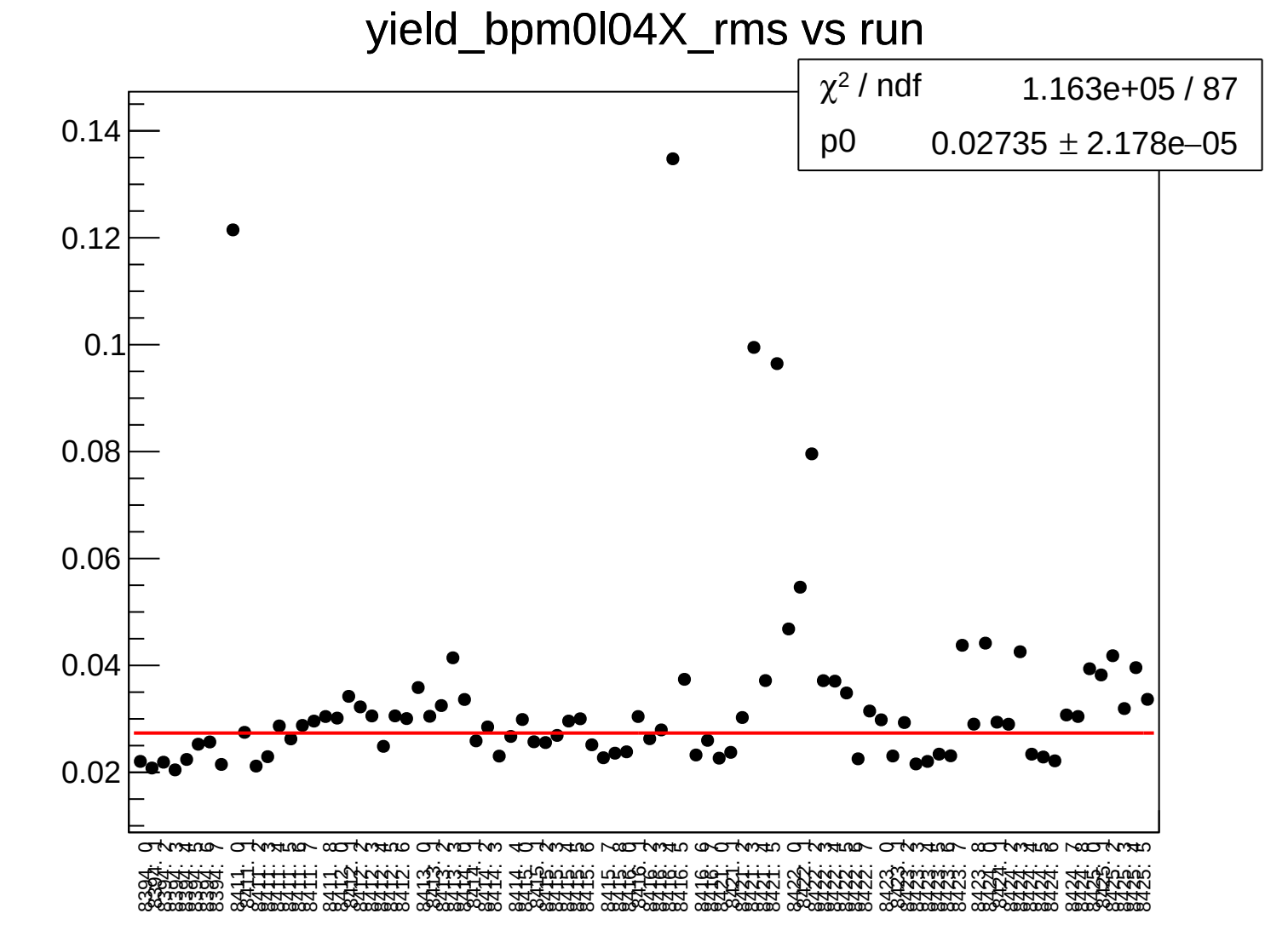

yield_bpm0l03Y_mean vs run
χ² / ndf 6.087e+07 / 87
p0 −0.105 ± 2.174e−05
pull
Entries 88
Mean 73.5
Std Dev 0

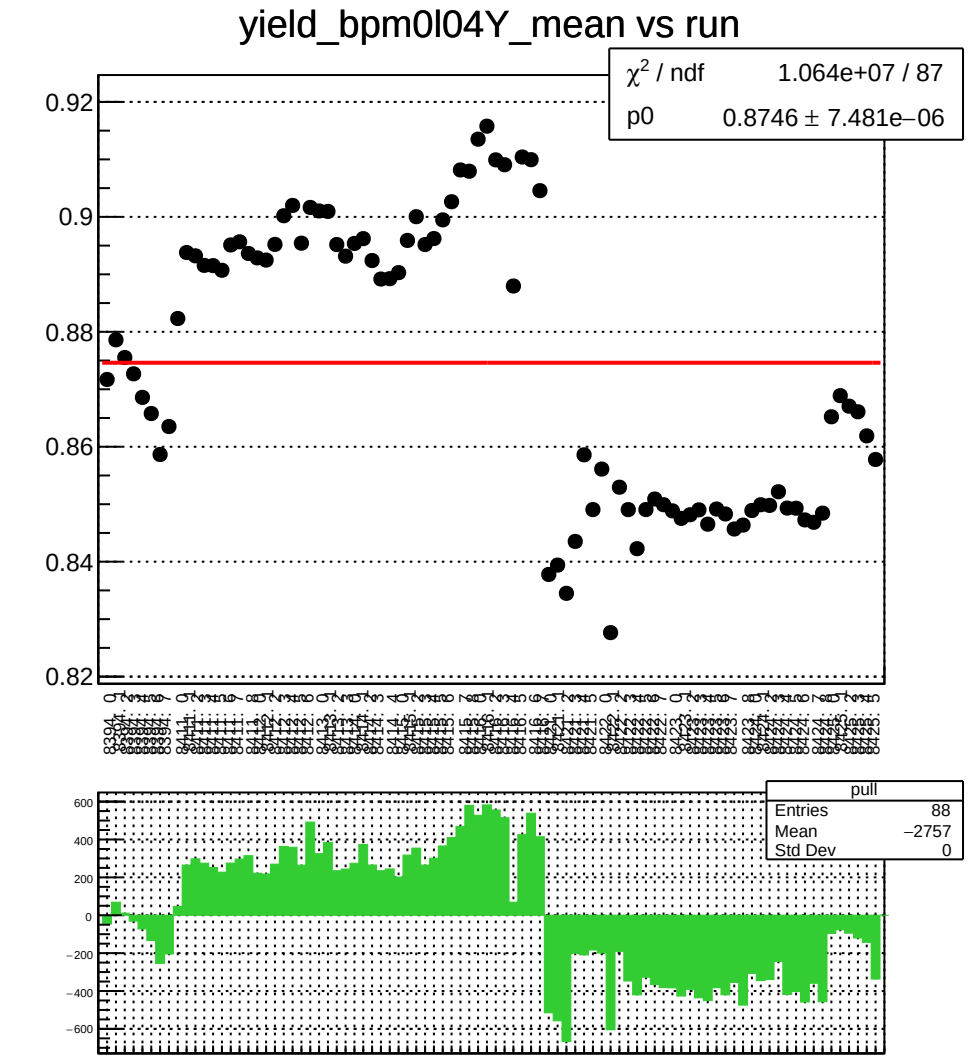

pull1D
Entries 88
Mean −3.732
Std Dev 3.729

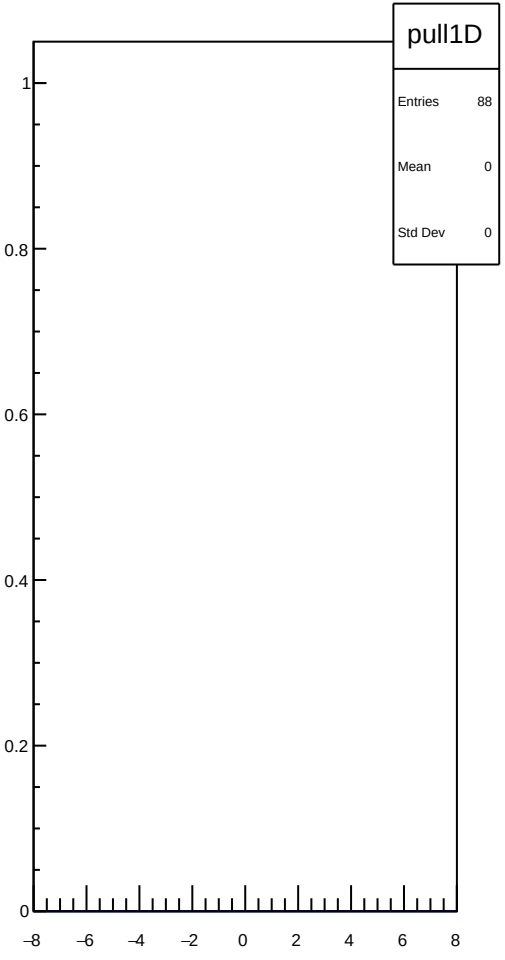

yield_bpm0l03Y_rms vs run
χ² / ndf 1.128e+06 / 87
p0 0.01155 ± 1.537e–05
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

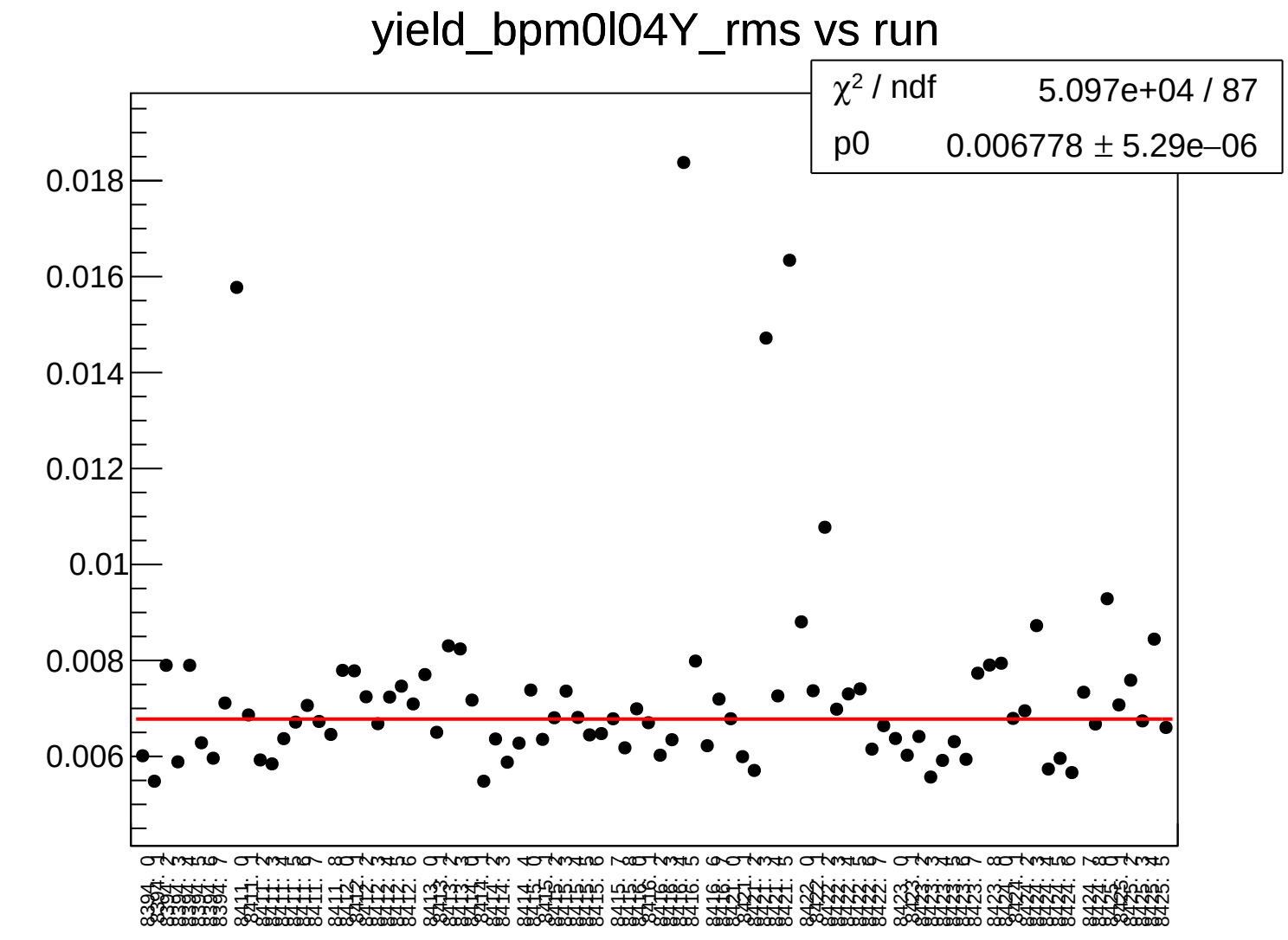

yield_bpm0l04X_mean vs run
χ² / ndf 1.403e+07 / 87
p0 −2.132 ± 3.08e−05
−1.8
−1.9
−2
−2.1
−2.2
−2.3
pull
Entries 88
Mean −192.6
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600
−800

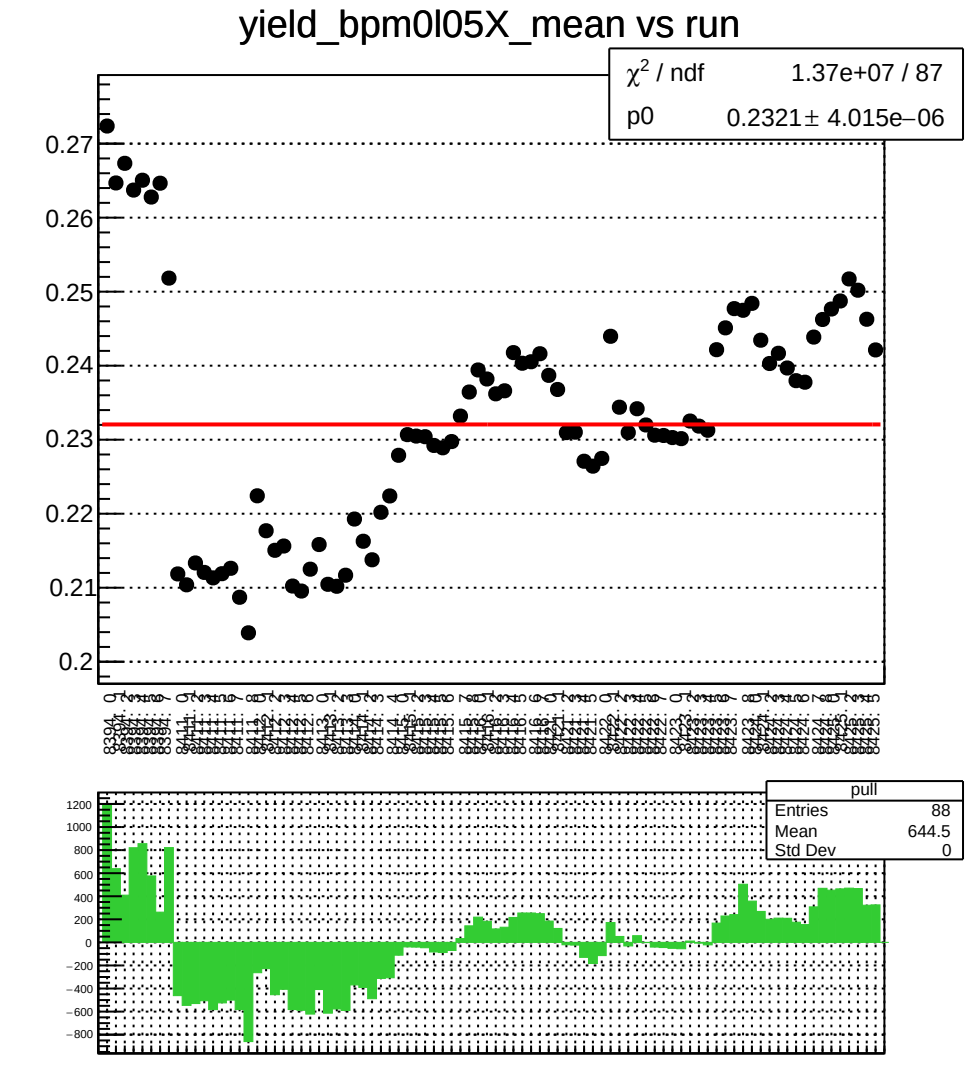

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

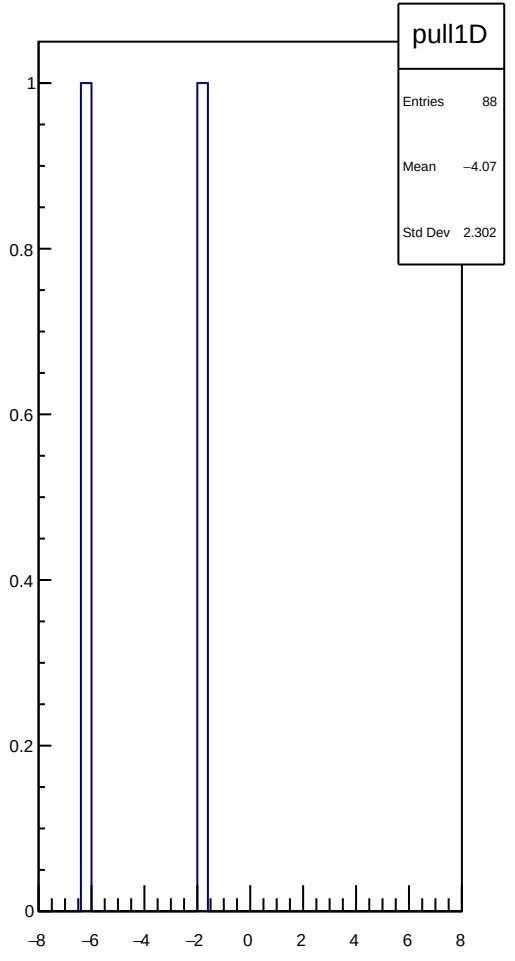

yield_bpm0l04X_rms vs run
χ² / ndf 1.163e+05 / 87
p0 0.02735 ± 2.178e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

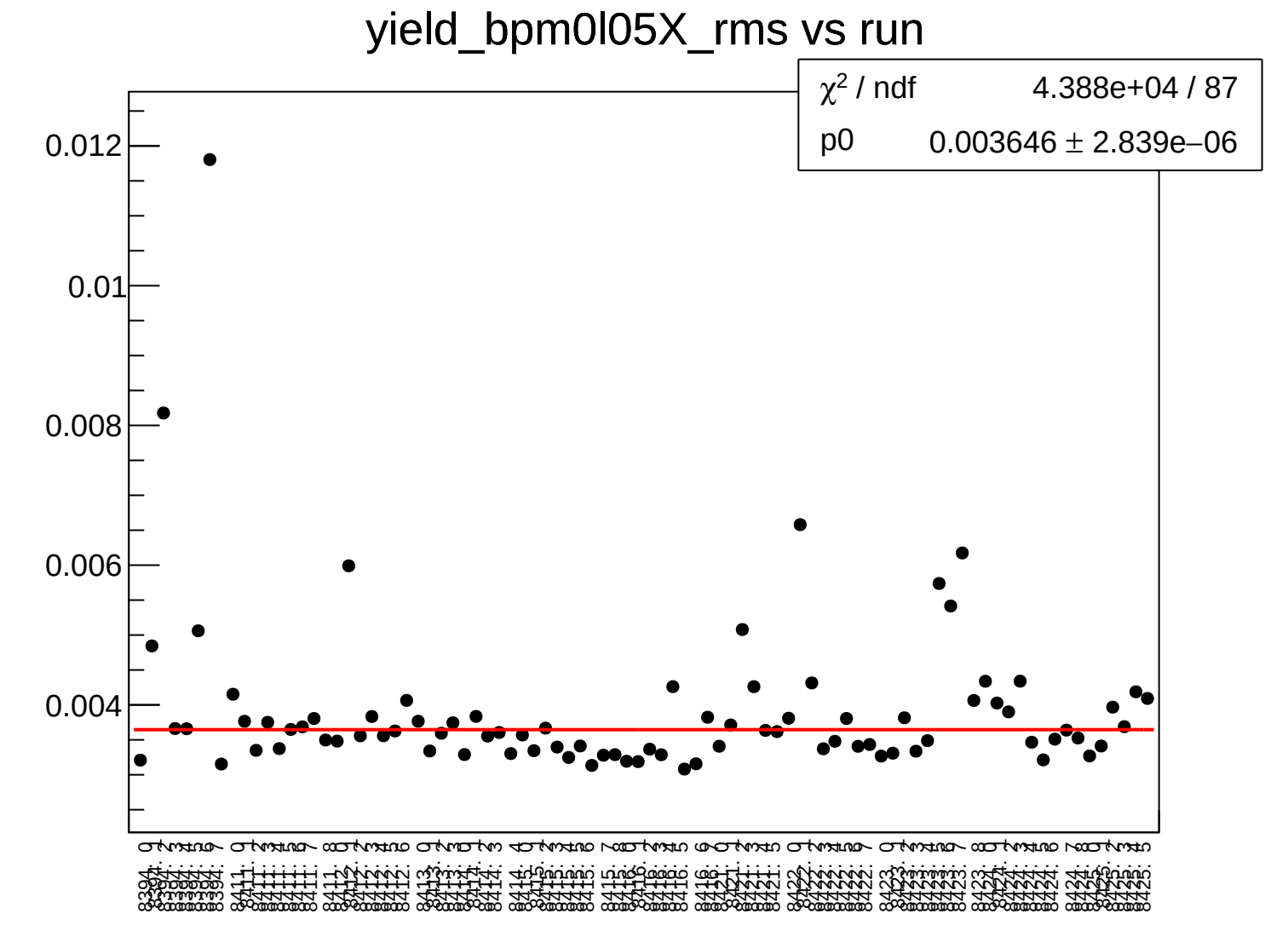

yield_bpm0l04Y_mean vs run
χ² / ndf 1.064e+07 / 87
p0 0.8746 ± 7.481e−06
0.92
0.9
0.88
0.86
0.84
0.82
pull
Entries 88
Mean −2757
Std Dev 0
600
400
200
0
−200
−400
−600

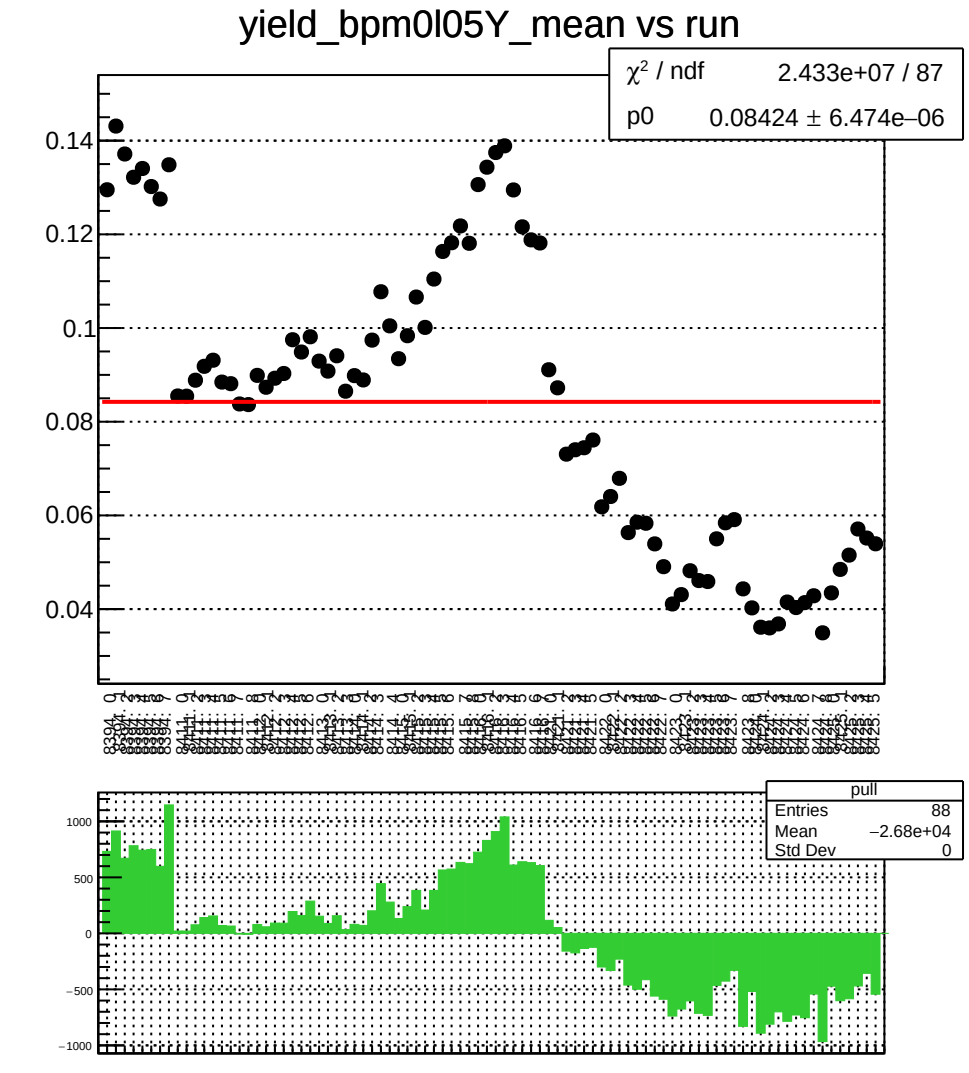

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

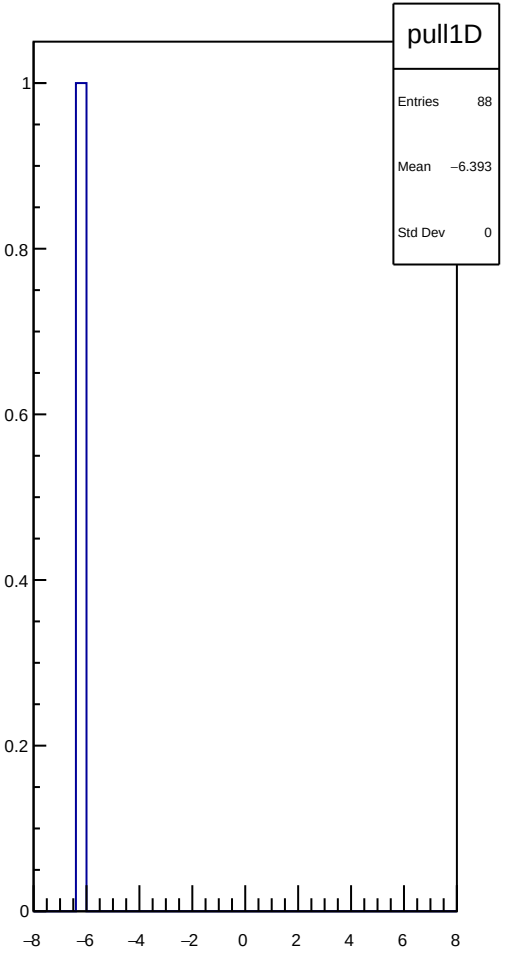

yield_bpm0l04Y_rms vs run
χ² / ndf 5.097e+04 / 87
p0 0.006778 ± 5.29e–06
0.018
0.016
0.014
0.012
0.01
0.008
0.006


yield_bpm0l05X_mean vs run
χ² / ndf 1.37e+07 / 87
p0 0.2321 ± 4.015e−06
0.27
0.26
0.25
0.24
0.23
0.22
0.21
0.2
pull
Entries 88
Mean 644.5
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600
−800

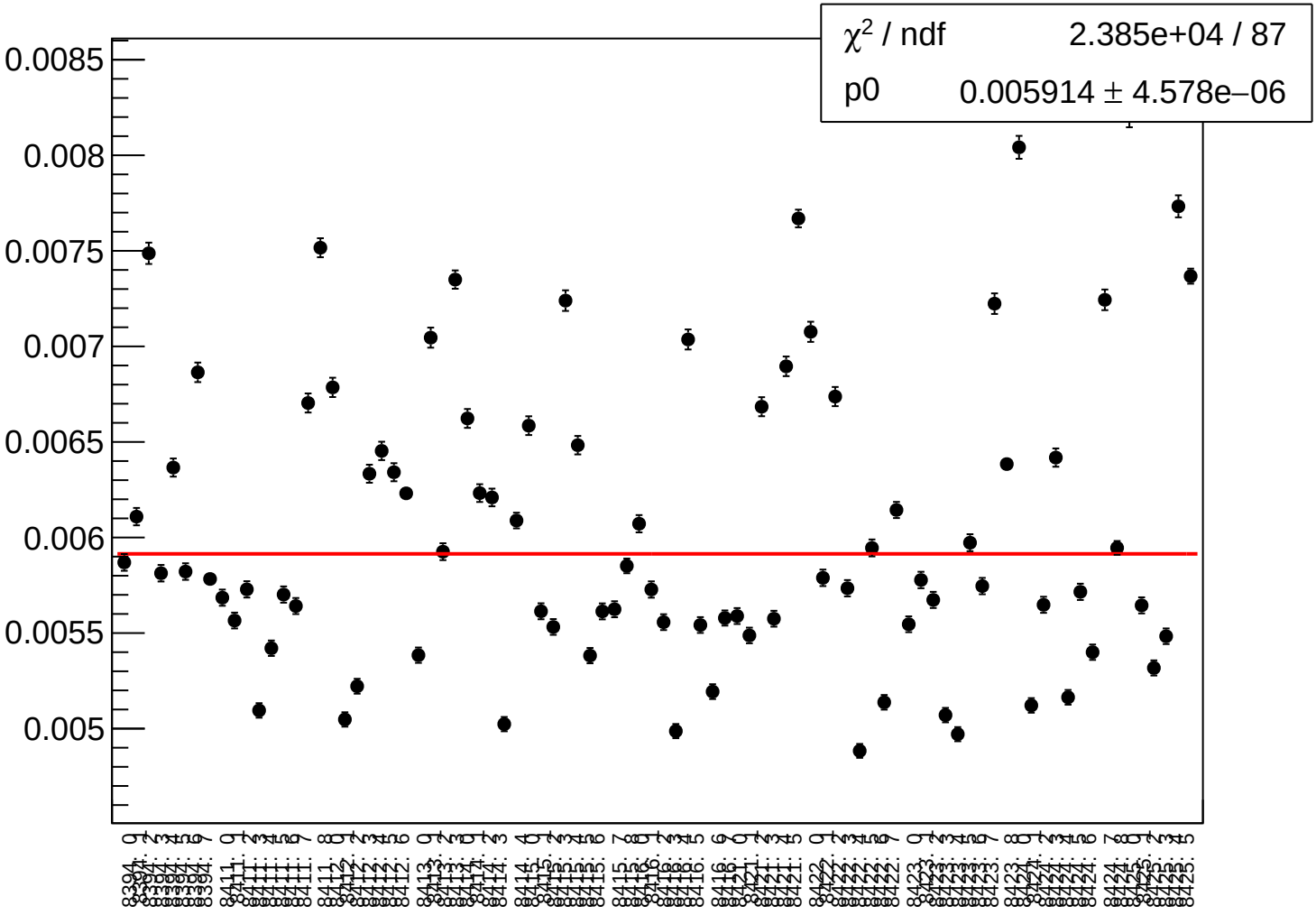

pull1D
Entries 88
Mean −4.07
Std Dev 2.302
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

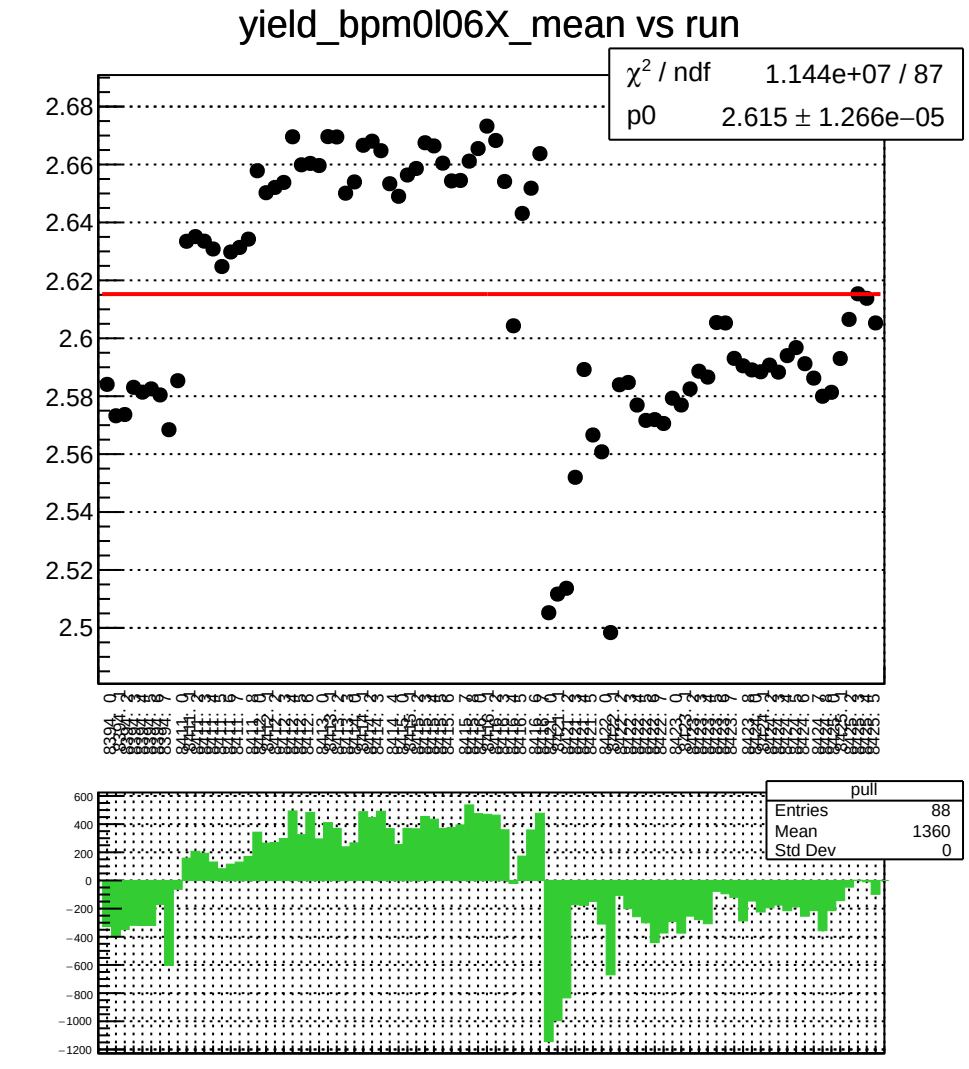

yield_bpm0l05X_rms vs run
χ² / ndf 4.388e+04 / 87
p0 0.003646 ± 2.839e−06
0.012
0.01
0.008
0.006
0.004

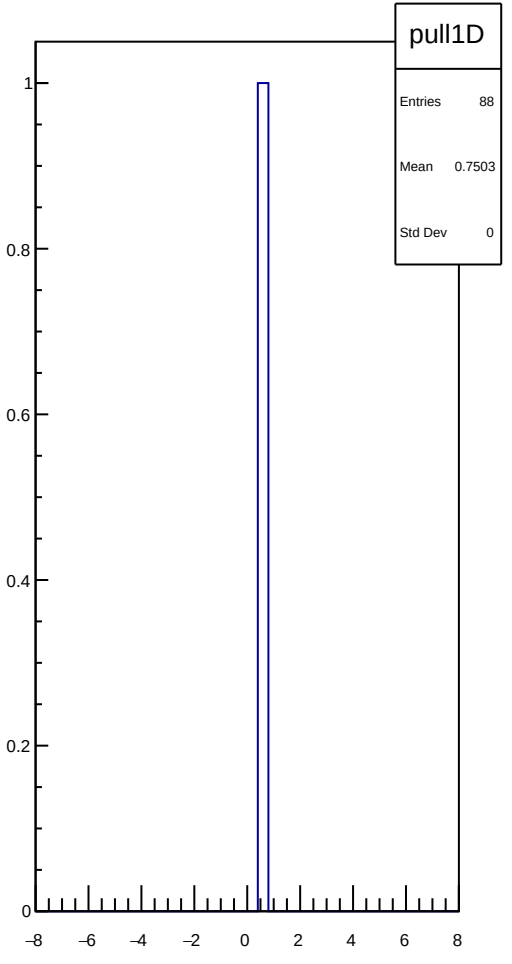

yield_bpm0l05Y_mean vs run
χ² / ndf 2.433e+07 / 87
p0 0.08424 ± 6.474e−06
0.14
0.12
0.1
0.08
0.06
0.04
pull
Entries 88
Mean −2.68e+04
Std Dev 0
1000
500
0
−500
−1000

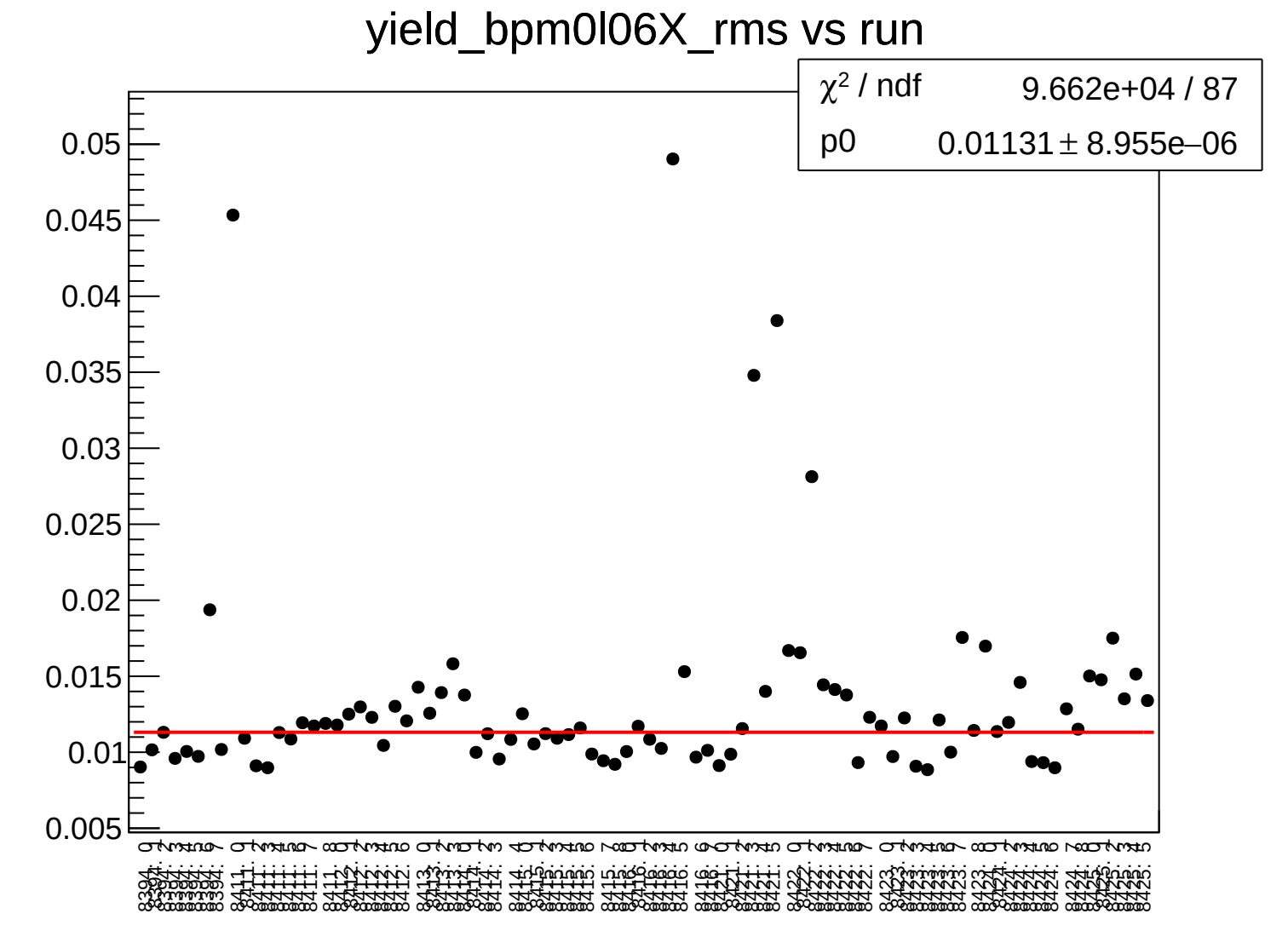

pull1D
Entries 88
Mean −6.393
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

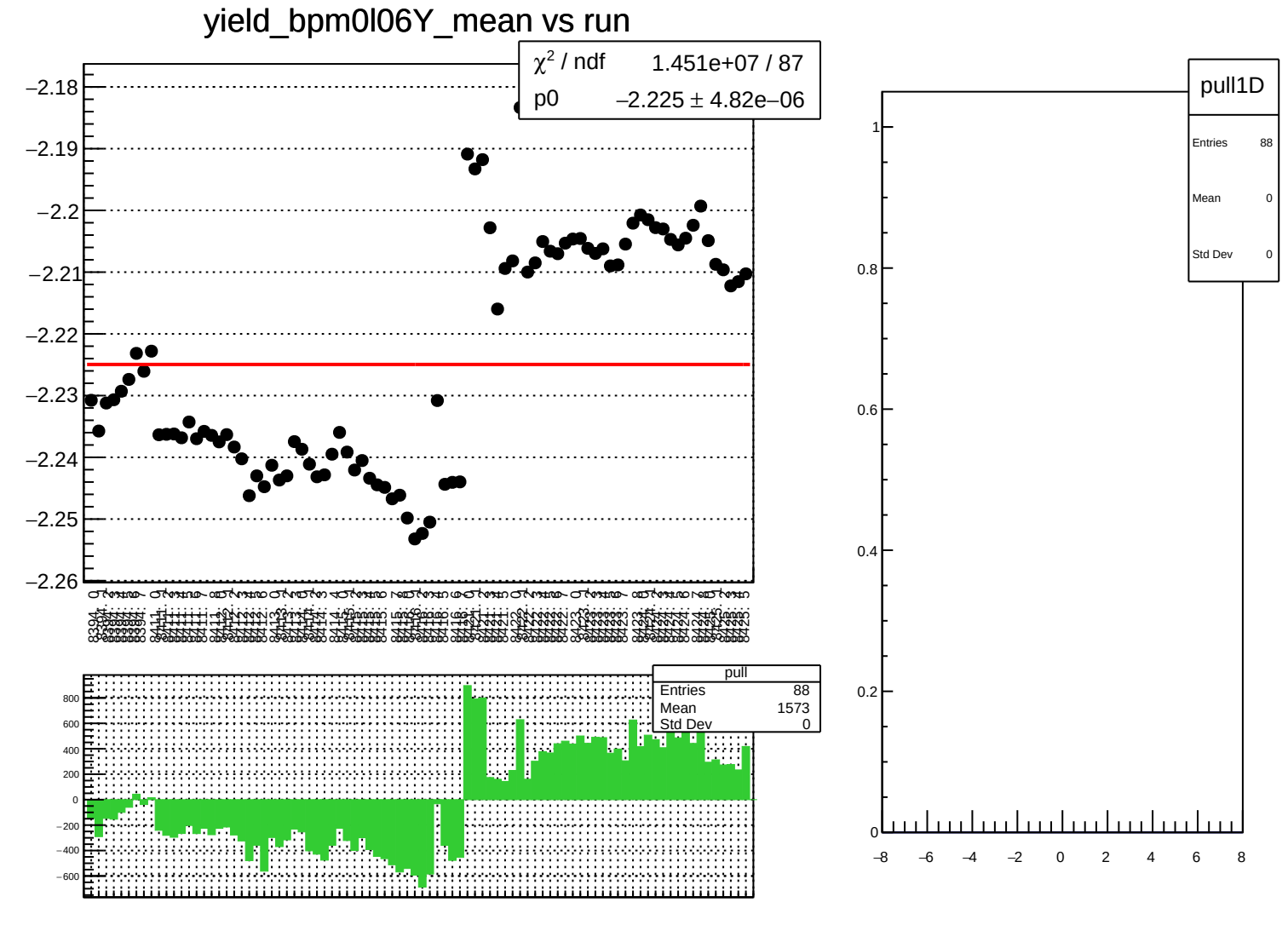
yield_bpm0l05Y_rms vs run

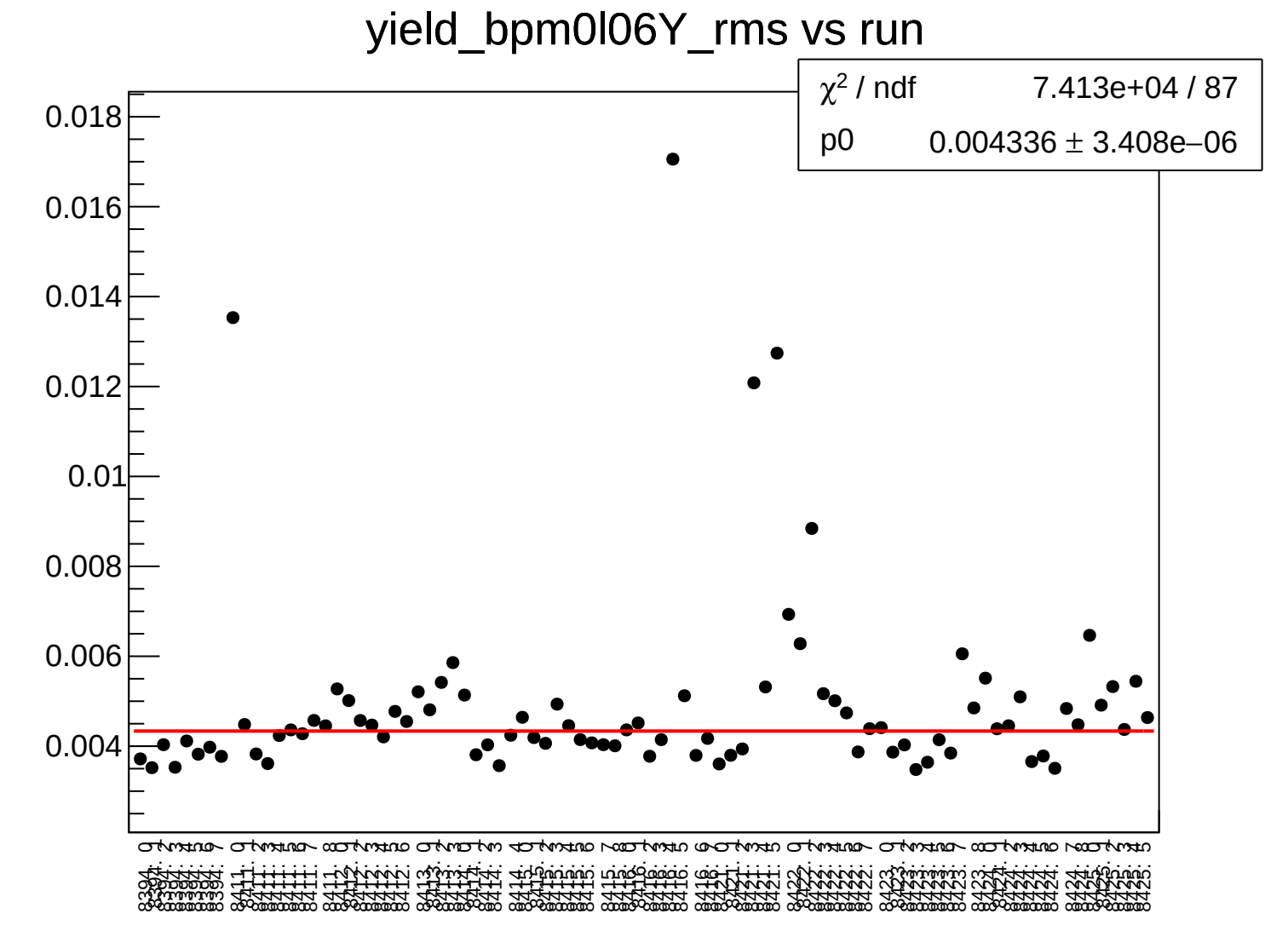


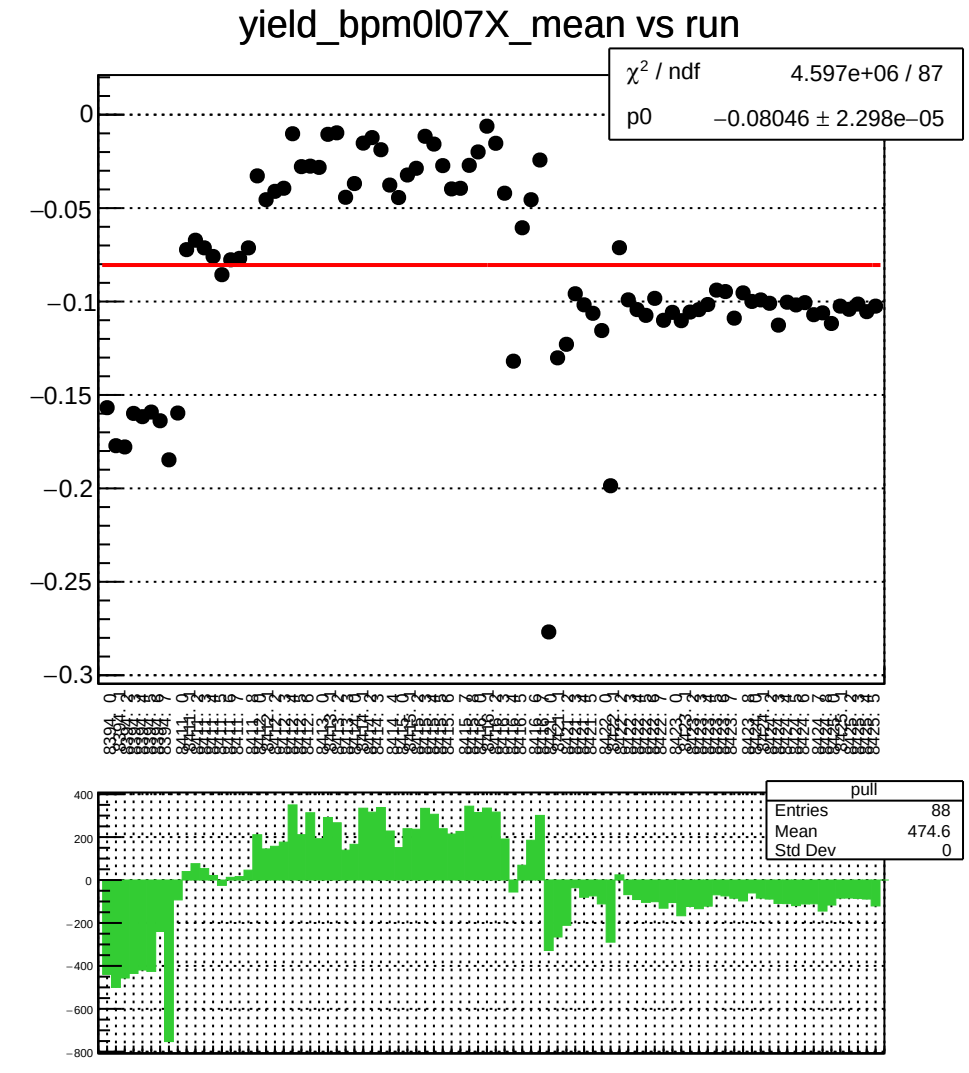

yield_bpm0l06X_mean vs run
χ² / ndf 1.144e+07 / 87
p0 2.615 ± 1.266e−05
2.68
2.66
2.64
2.62
2.6
2.58
2.56
2.54
2.52
2.5
pull
Entries 88
Mean 1360
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000
−1200

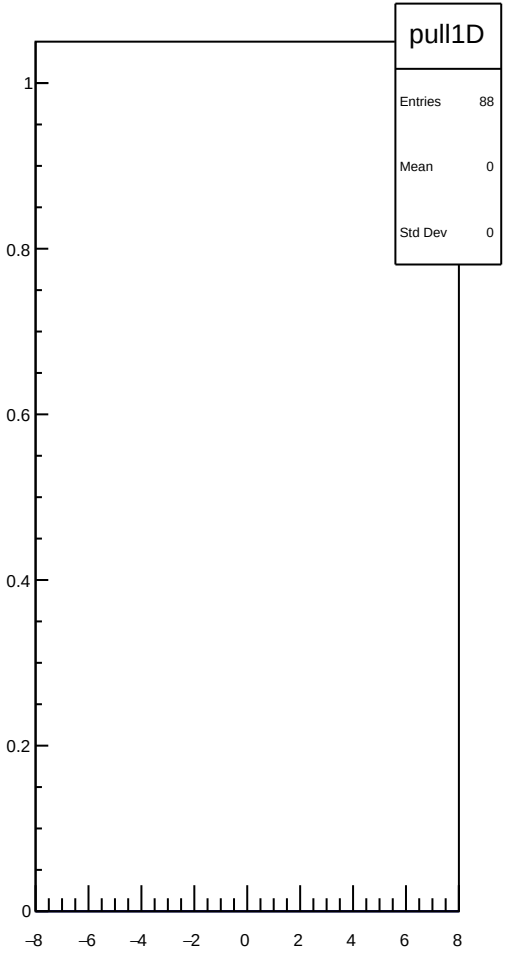

pull1D
Entries 88
Mean 0.7503
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

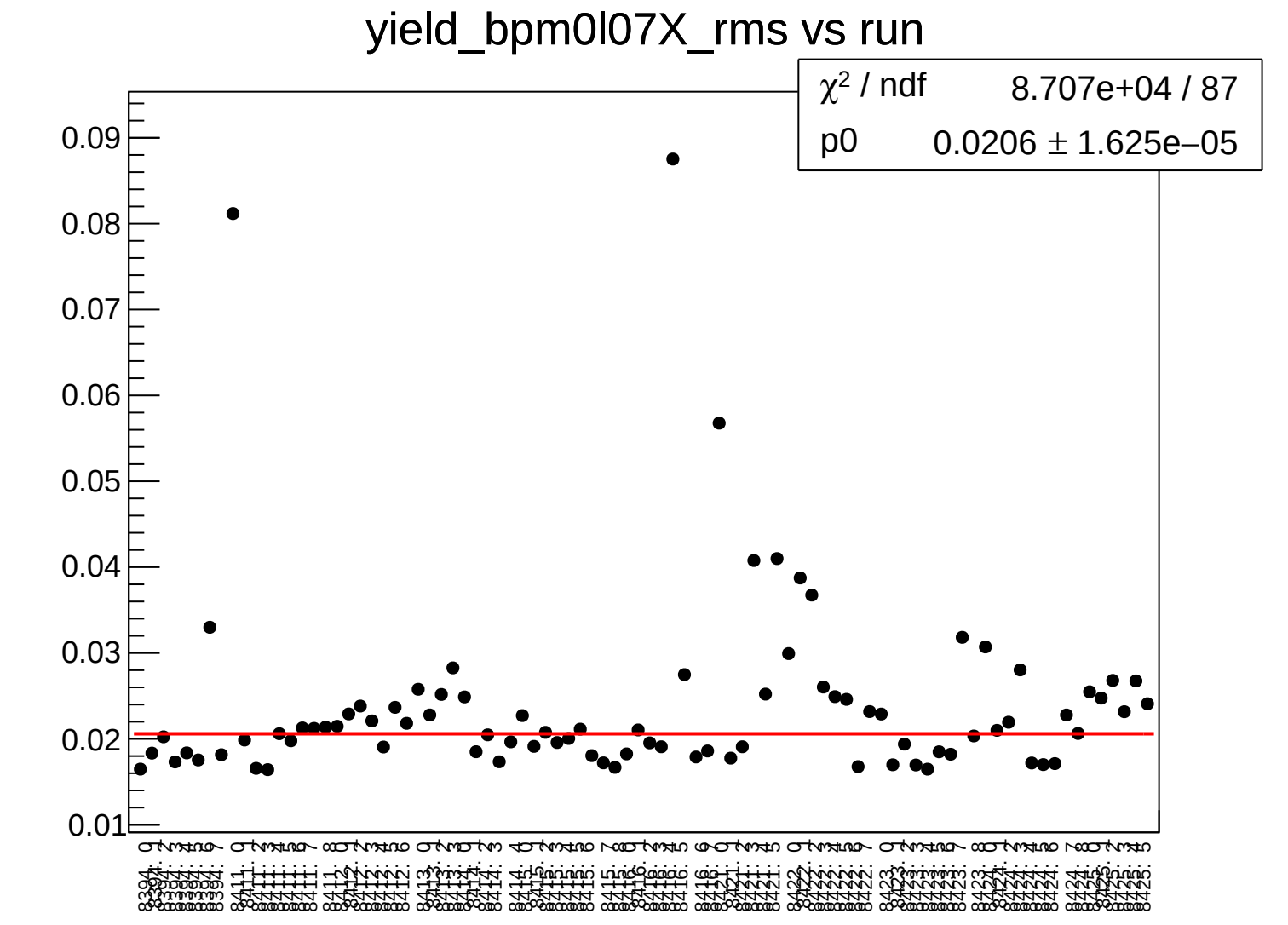

yield_bpm0l06X_rms vs run
χ² / ndf 9.662e+04 / 87
p0 0.01131 ± 8.955e–06
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

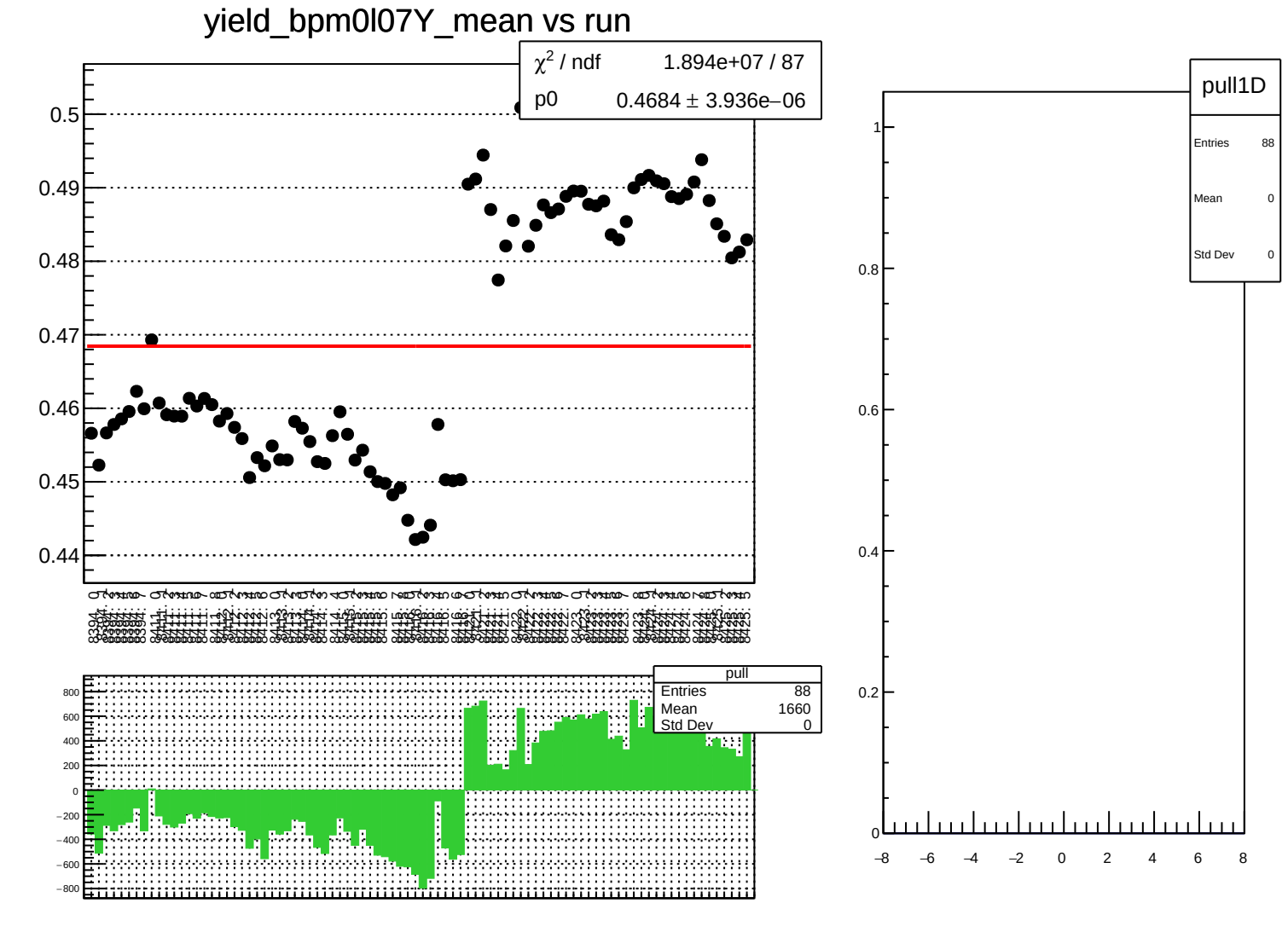

yield_bpm0l06Y_mean vs run
χ² / ndf 1.451e+07 / 87
p0 −2.225 ± 4.82e−06
−2.18
−2.19
−2.2
−2.21
−2.22
−2.23
−2.24
−2.25
−2.26
pull
Entries 88
Mean 1573
Std Dev 0
800
600
400
200
0
−200
−400
−600
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

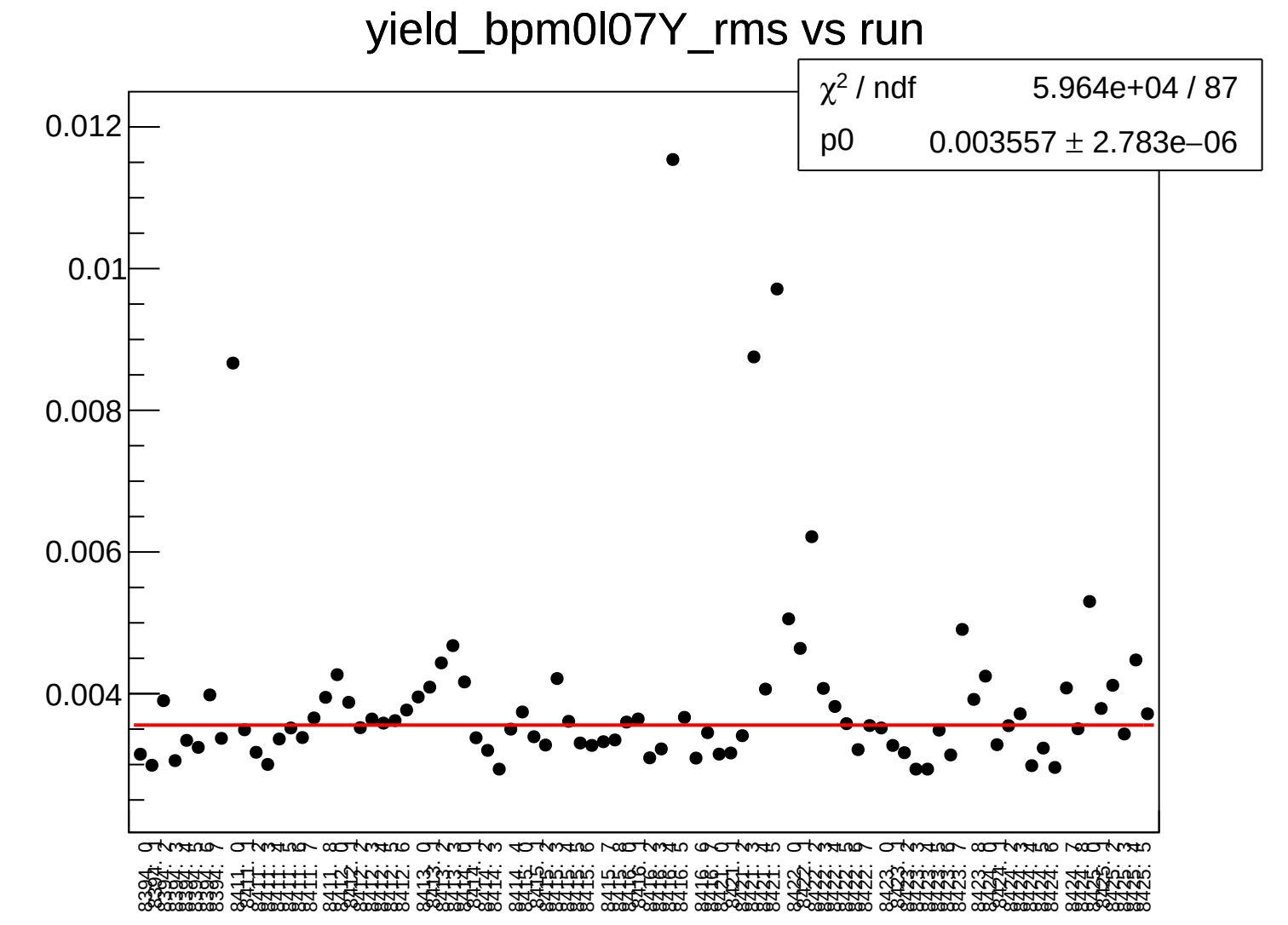

yield_bpm0l06Y_rms vs run
χ² / ndf 7.413e+04 / 87
p0 0.004336 ± 3.408e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

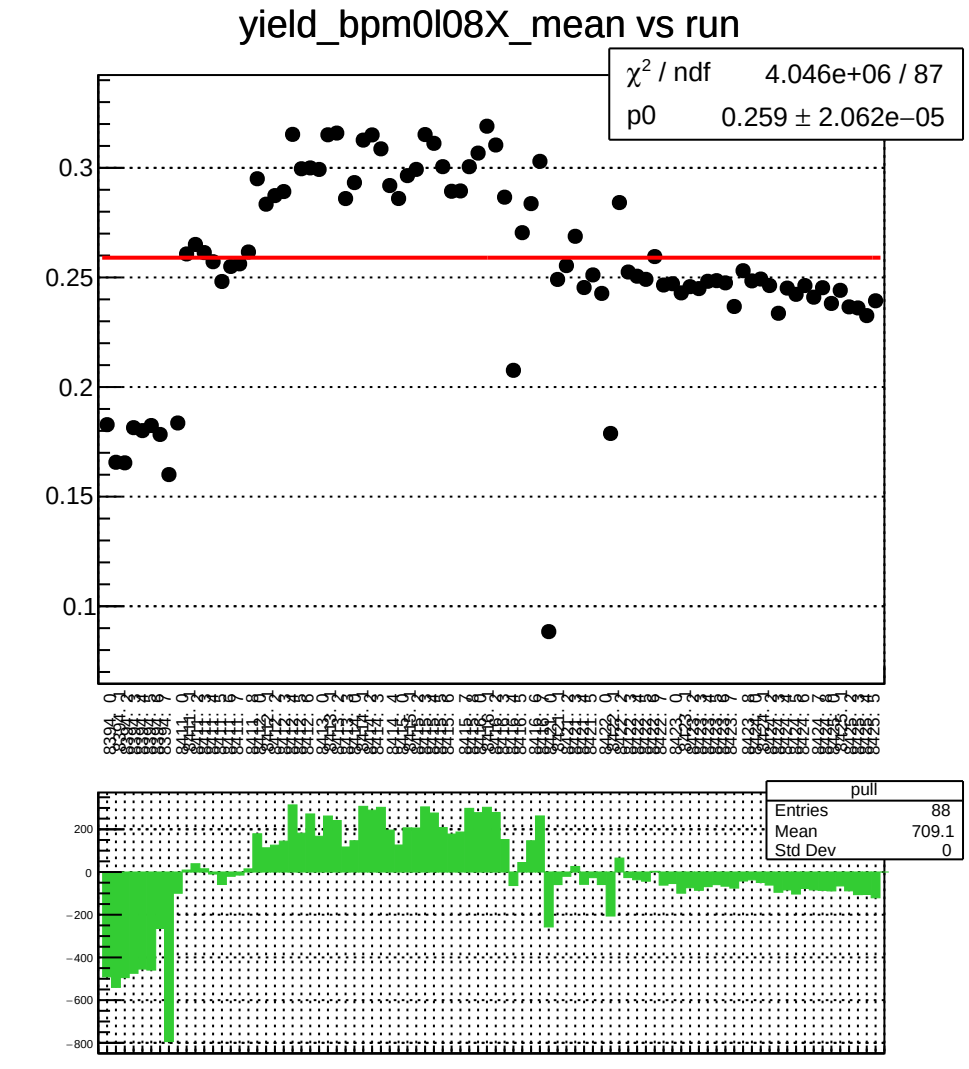

yield_bpm0l07X_mean vs run
χ² / ndf 4.597e+06 / 87
p0 −0.08046 ± 2.298e−05
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
pull
Entries 88
Mean 474.6
Std Dev 0
400
200
0
−200
−400
−600
−800

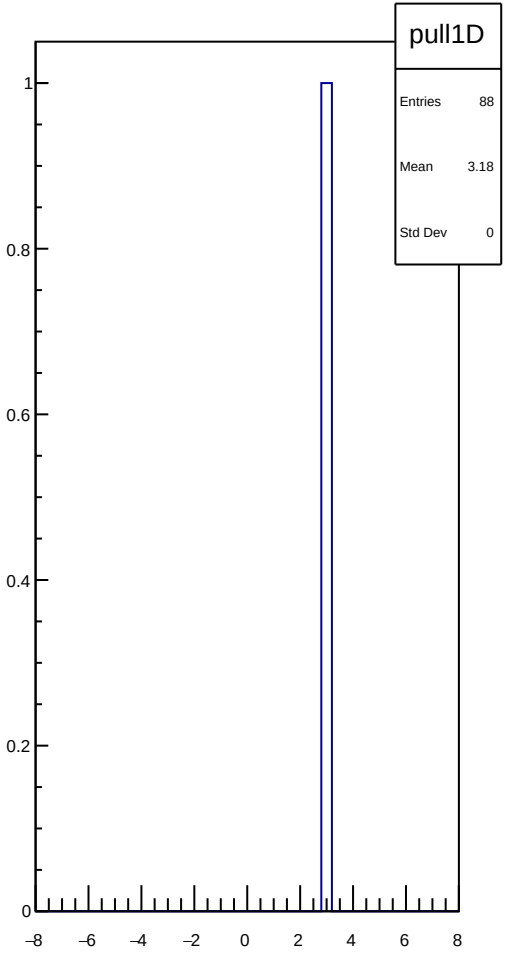

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

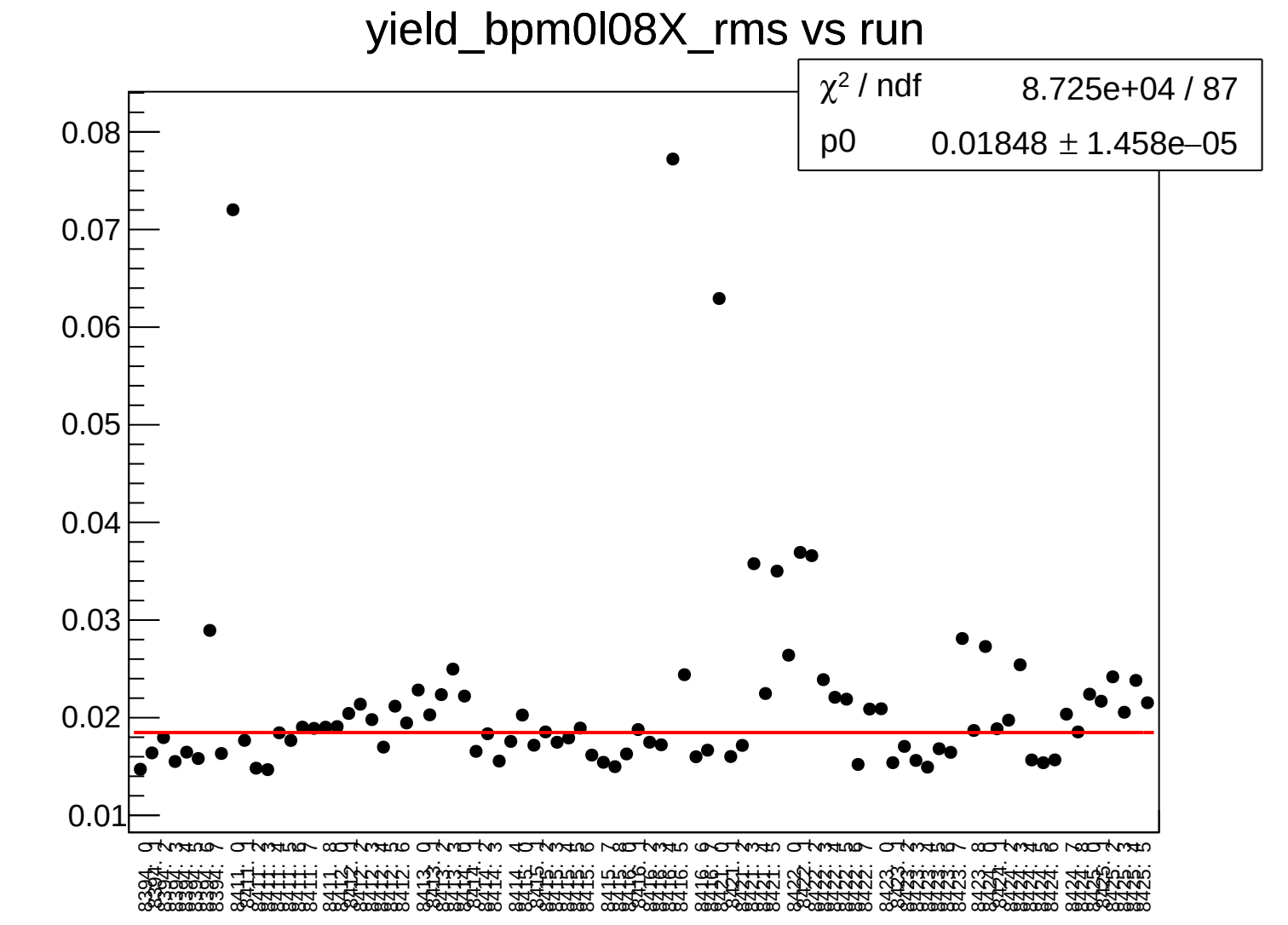

yield_bpm0l07X_rms vs run
χ² / ndf 8.707e+04 / 87
p0 0.0206 ± 1.625e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

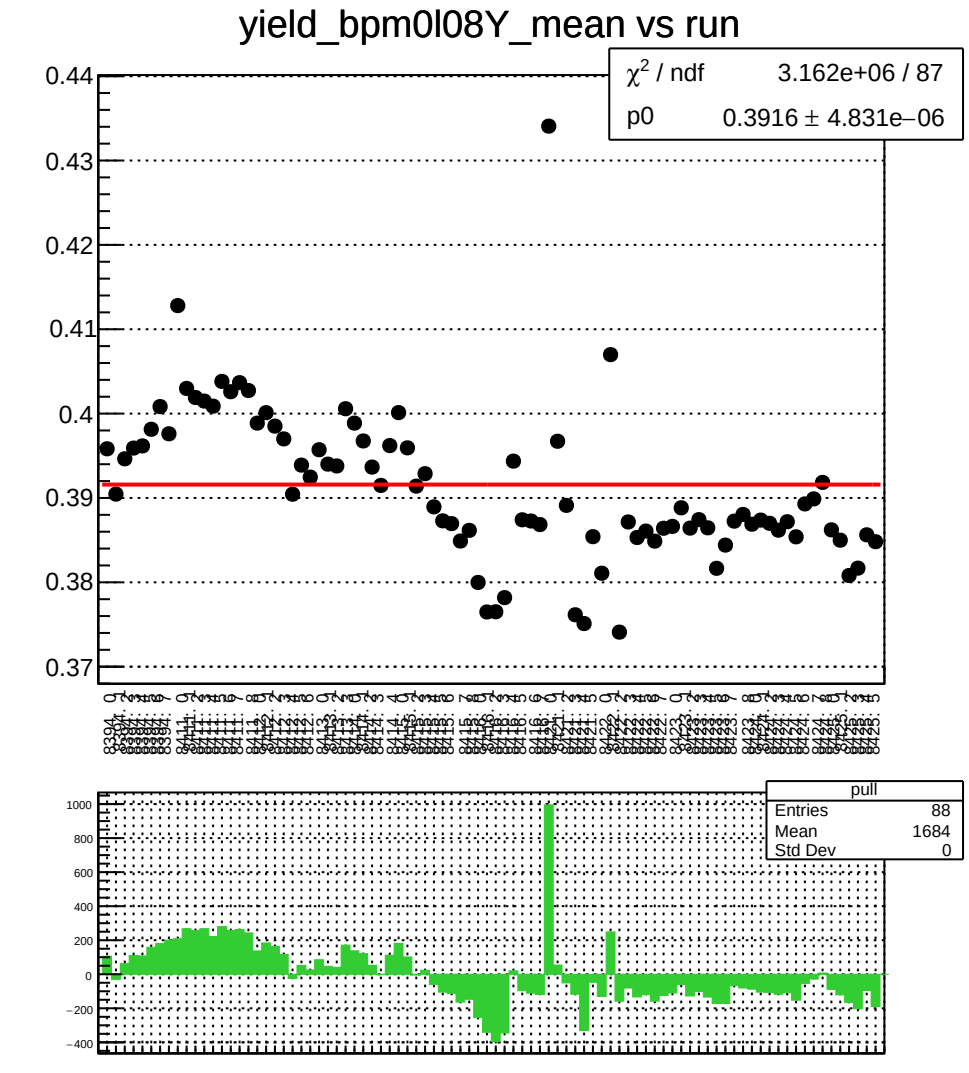

yield_bpm0l07Y_mean vs run
χ² / ndf 1.894e+07 / 87
p0 0.4684 ± 3.936e−06
0.5
0.49
0.48
0.47
0.46
0.45
0.44
pull
Entries 88
Mean 1660
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

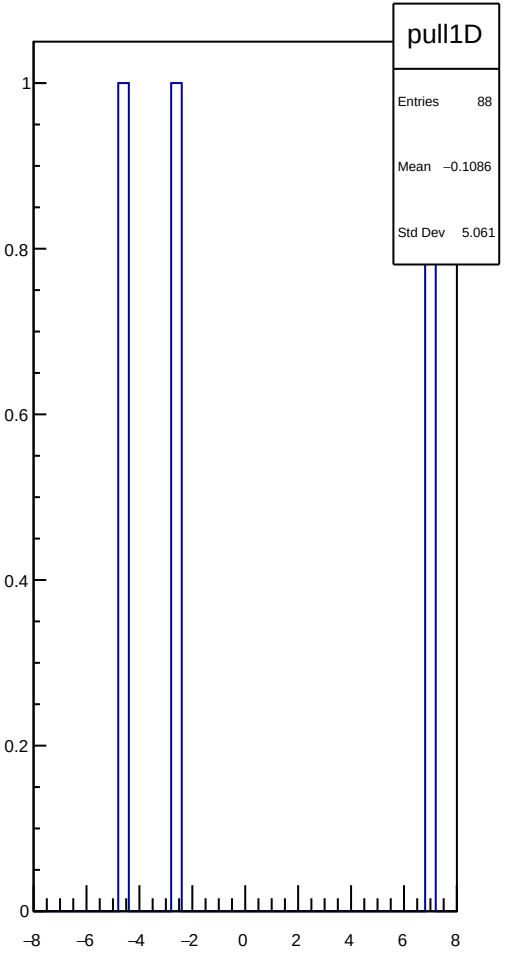

yield_bpm0l07Y_rms vs run
χ² / ndf 5.964e+04 / 87
p0 0.003557 ± 2.783e−06
0.012
0.01
0.008
0.006
0.004

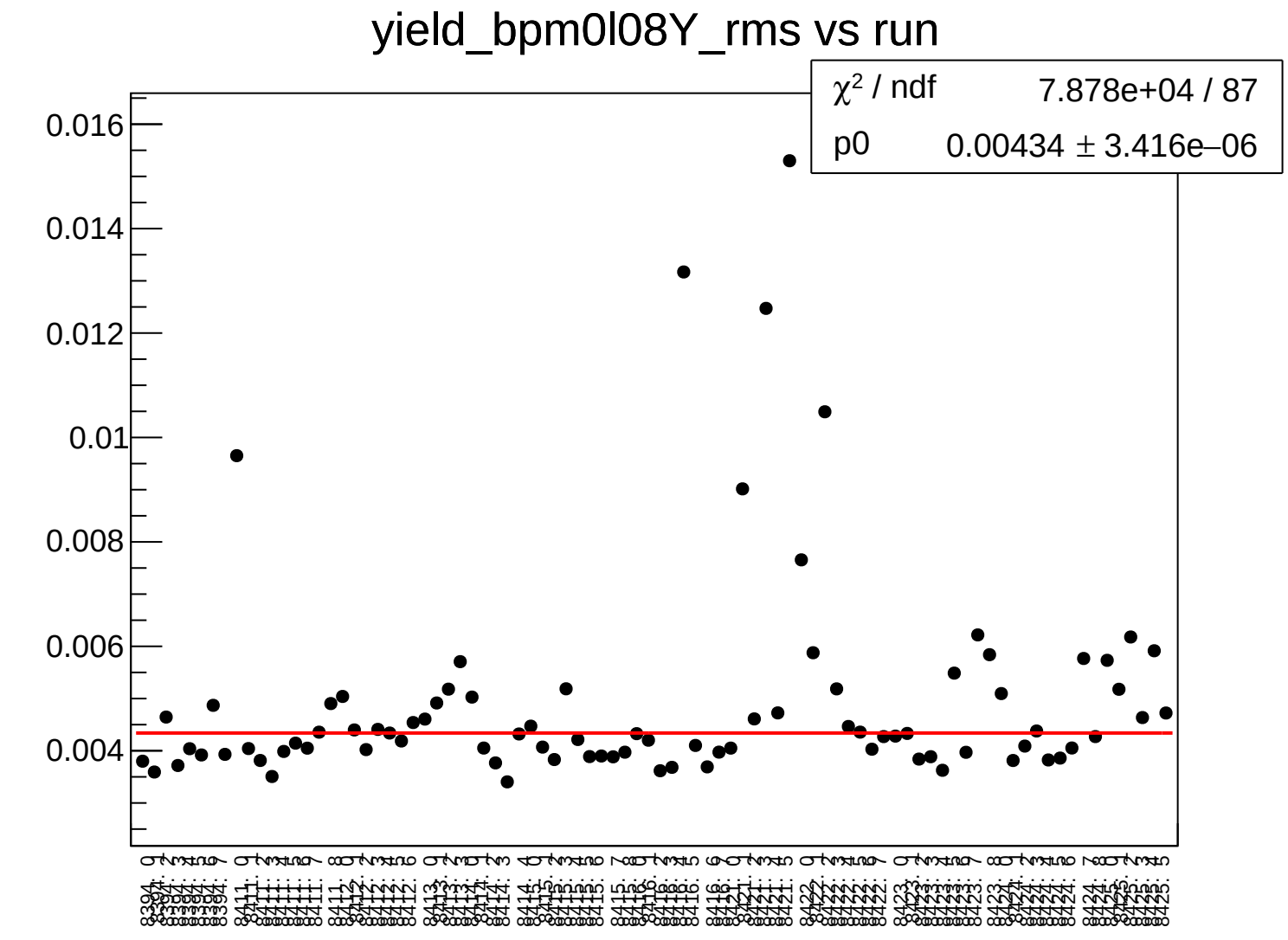

yield_bpm0l08X_mean vs run
χ² / ndf 4.046e+06 / 87
p0 0.259 ± 2.062e−05
0.3
0.25
0.2
0.15
0.1
pull
Entries 88
Mean 709.1
Std Dev 0
200
0
−200
−400
−600
−800

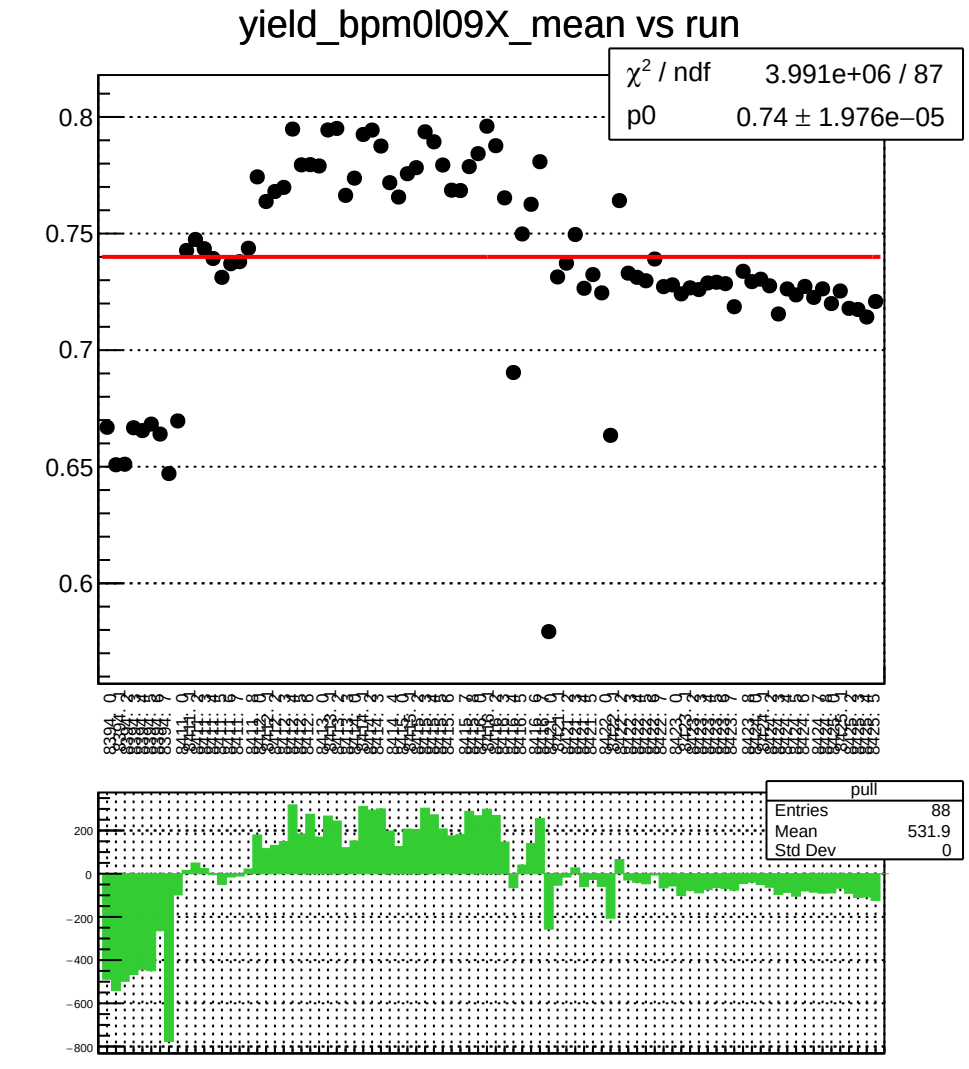

pull1D
Entries 88
Mean 3.18
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

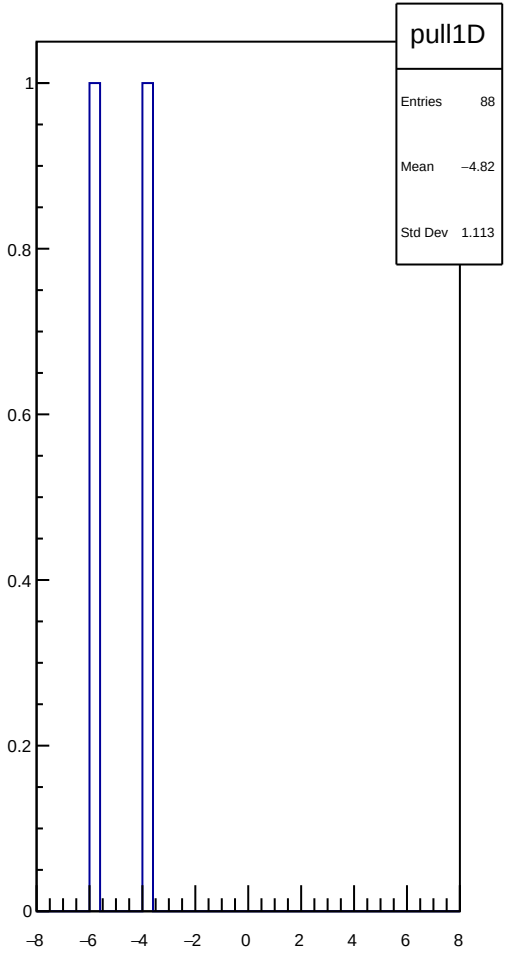

yield_bpm0l08X_rms vs run
χ² / ndf 8.725e+04 / 87
p0 0.01848 ± 1.458e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

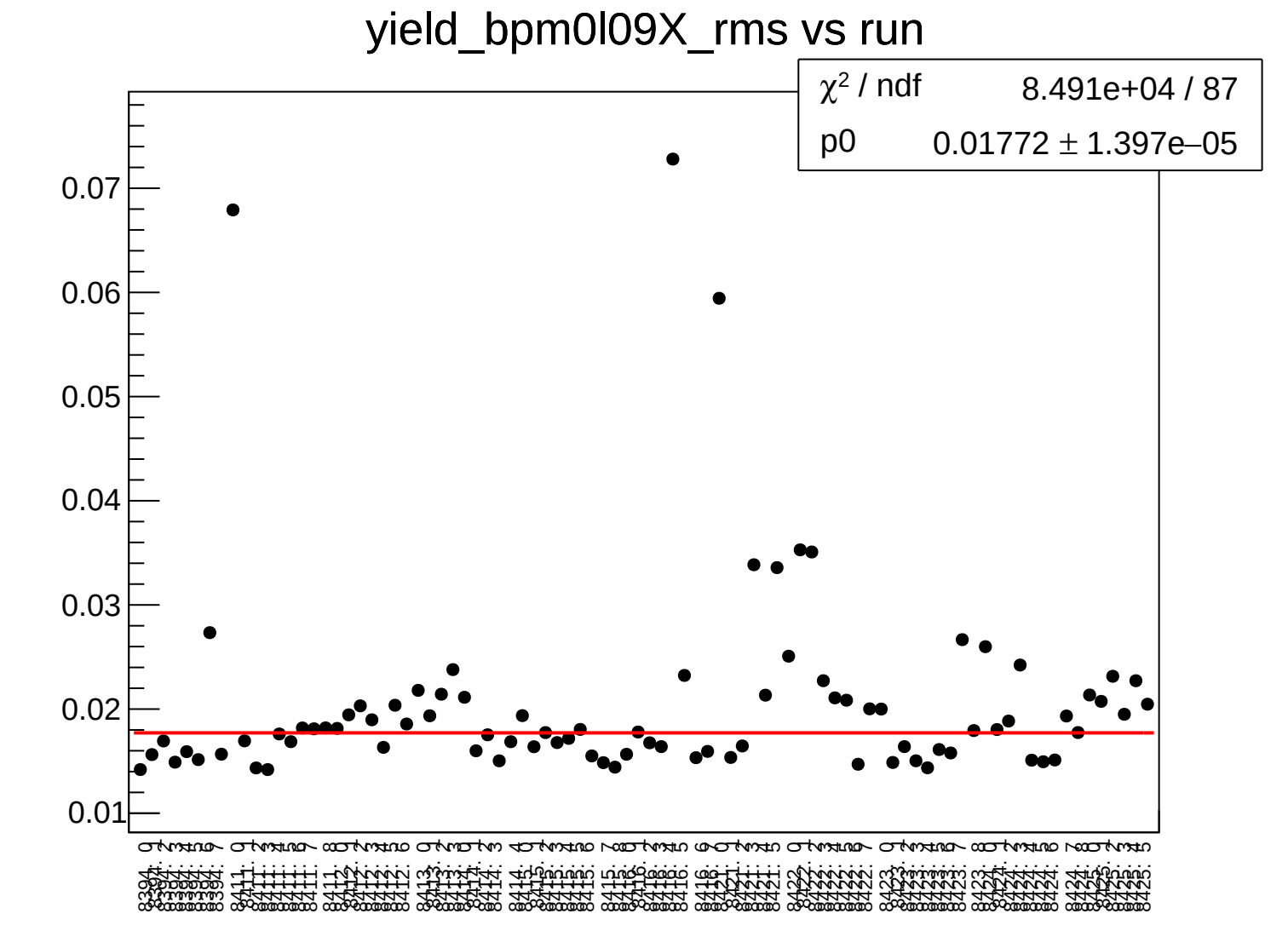

yield_bpm0l08Y_mean vs run
χ² / ndf 3.162e+06 / 87
p0 0.3916 ± 4.831e−06
0.44
0.43
0.42
0.41
0.4
0.39
0.38
0.37
pull
Entries 88
Mean 1684
Std Dev 0
1000
800
600
400
200
0
−200
−400

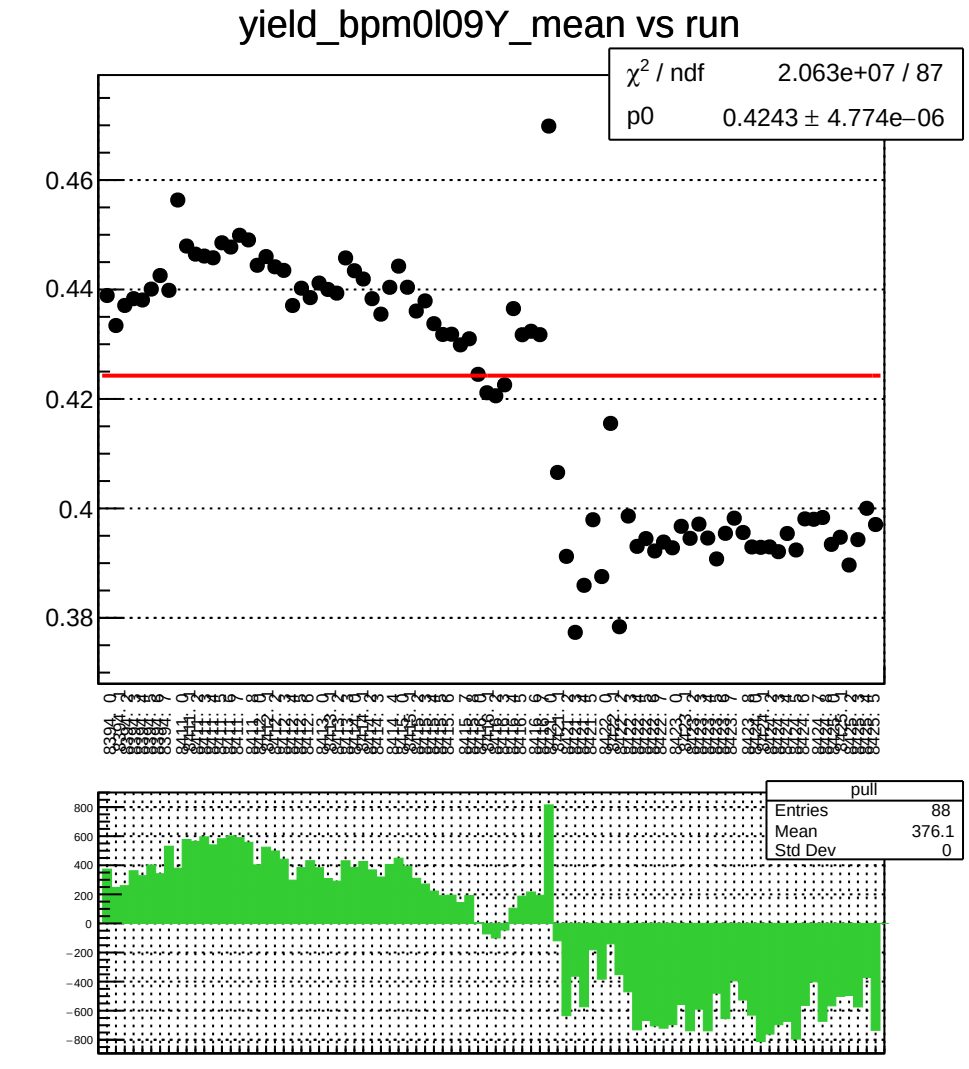

pull1D
Entries 88
Mean −0.1086
Std Dev 5.061
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

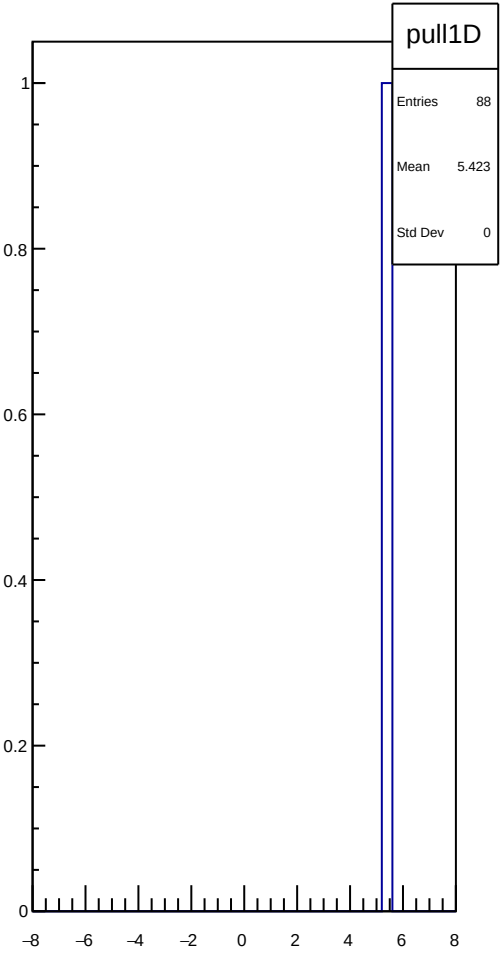

yield_bpm0l08Y_rms vs run
χ² / ndf 7.878e+04 / 87
p0 0.00434 ± 3.416e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

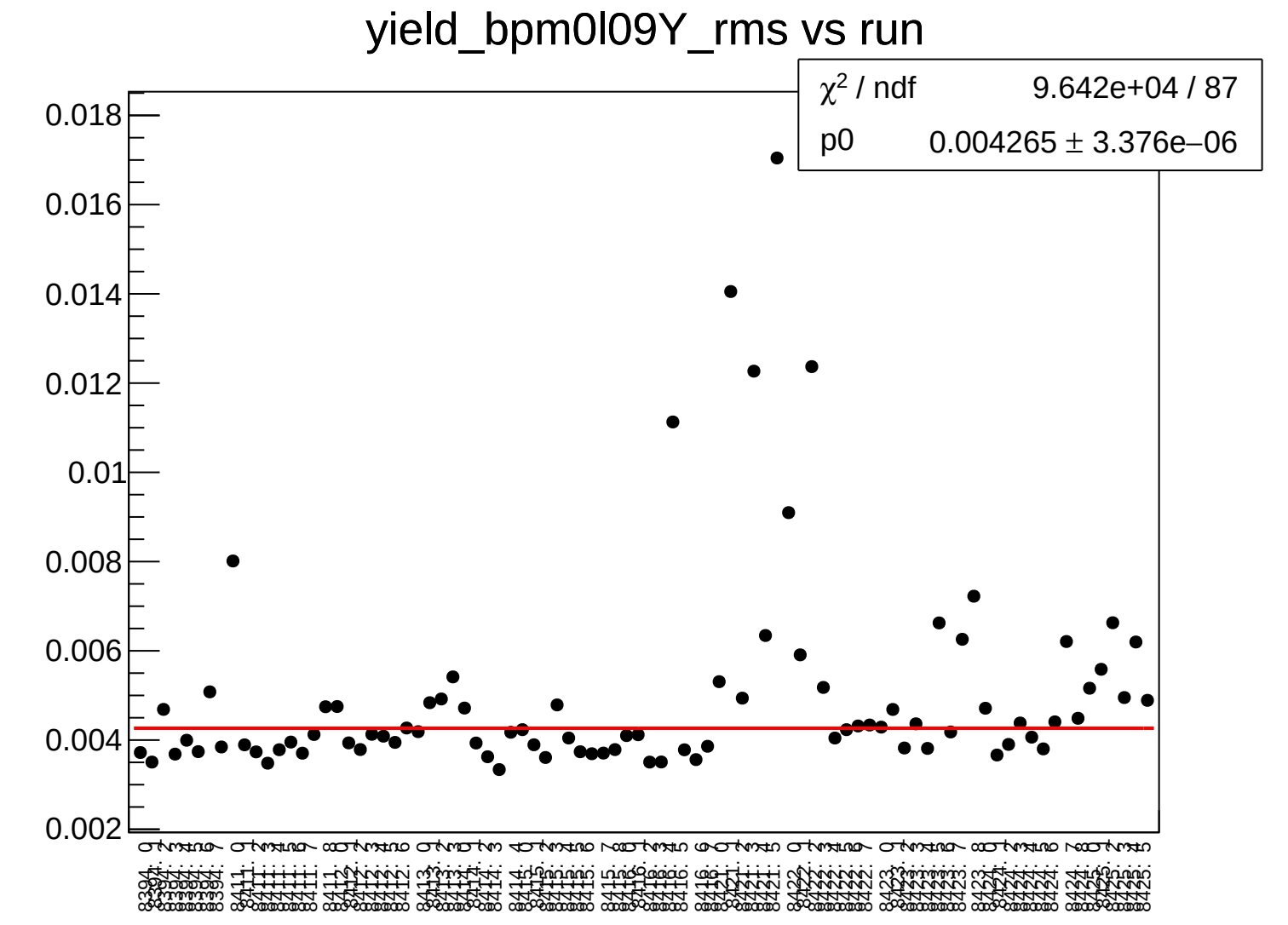

yield_bpm0l09X_mean vs run
χ² / ndf 3.991e+06 / 87
p0 0.74 ± 1.976e−05
0.8
0.75
0.7
0.65
0.6
pull
Entries 88
Mean 531.9
Std Dev 0
200
0
−200
−400
−600
−800

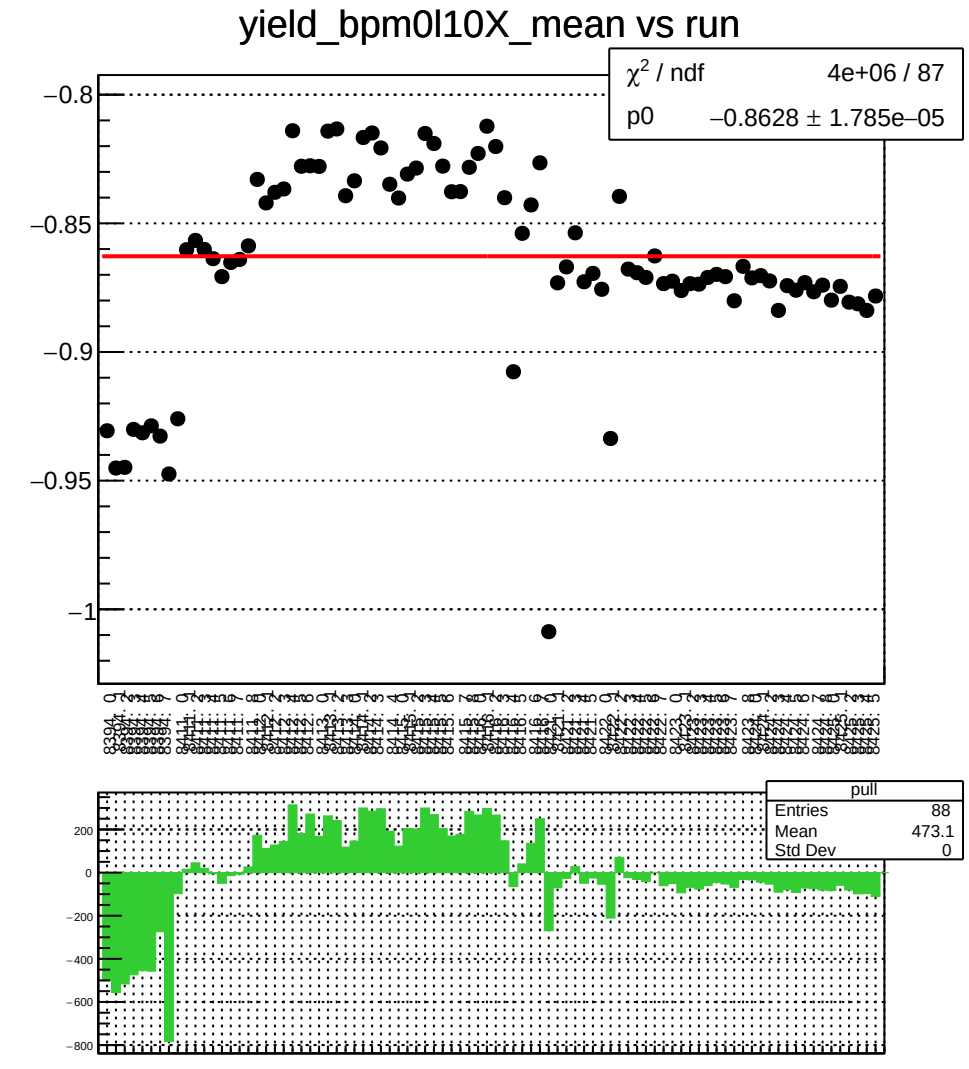

pull1D
Entries 88
Mean −4.82
Std Dev 1.113
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

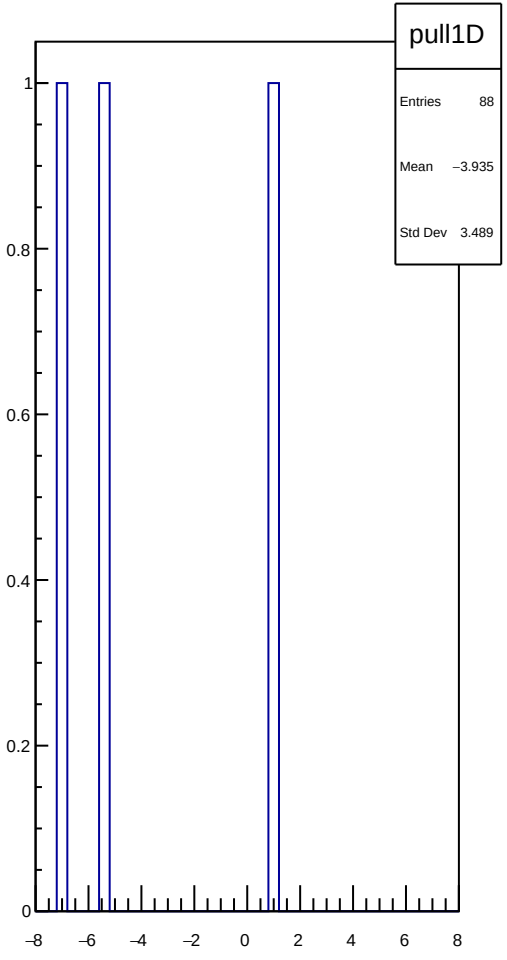

yield_bpm0l09X_rms vs run
χ² / ndf 8.491e+04 / 87
p0 0.01772 ± 1.397e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

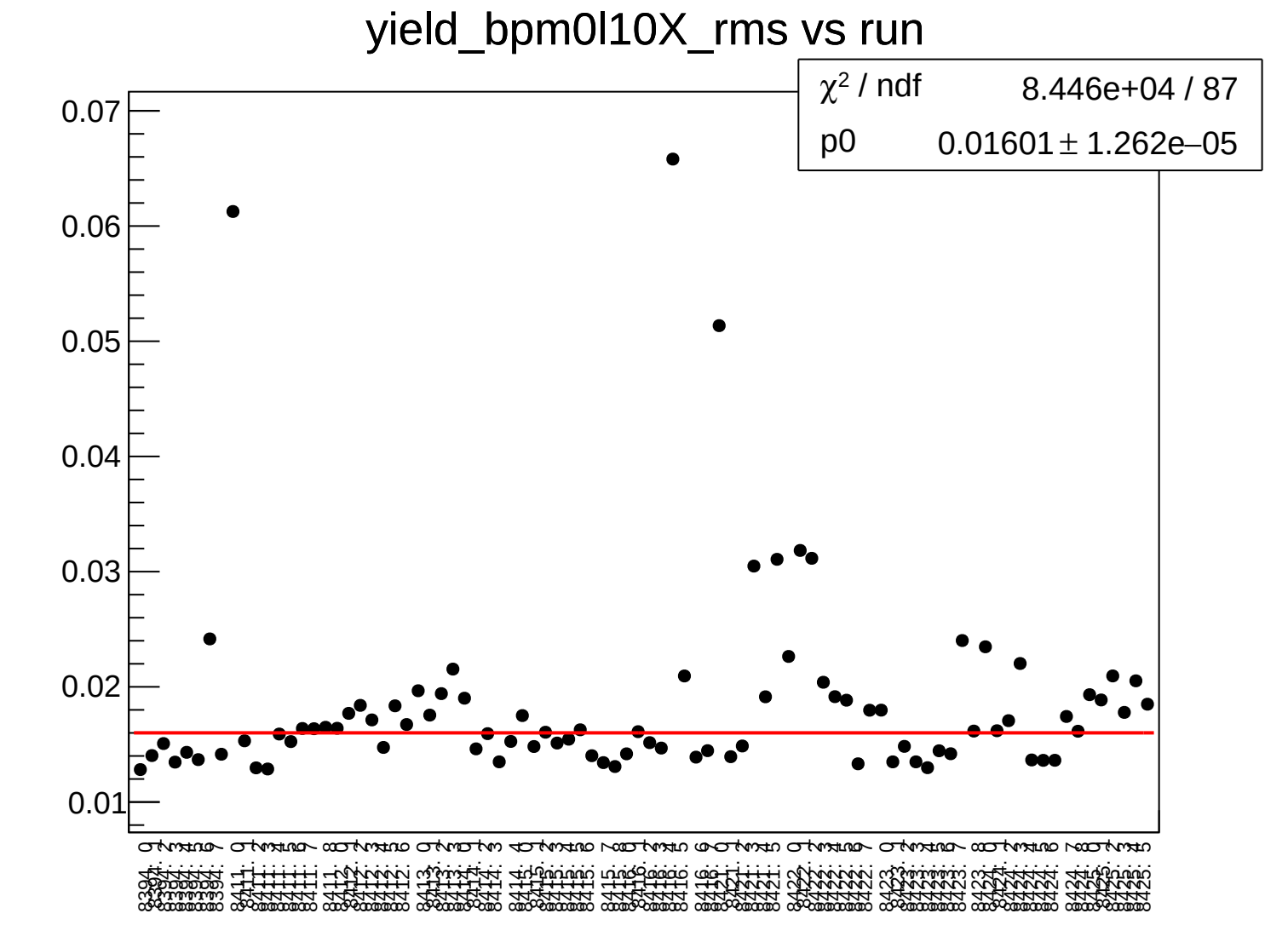

yield_bpm0l09Y_mean vs run
χ² / ndf 2.063e+07 / 87
p0 0.4243 ± 4.774e−06
0.46
0.44
0.42
0.4
0.38
pull
Entries 88
Mean 376.1
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

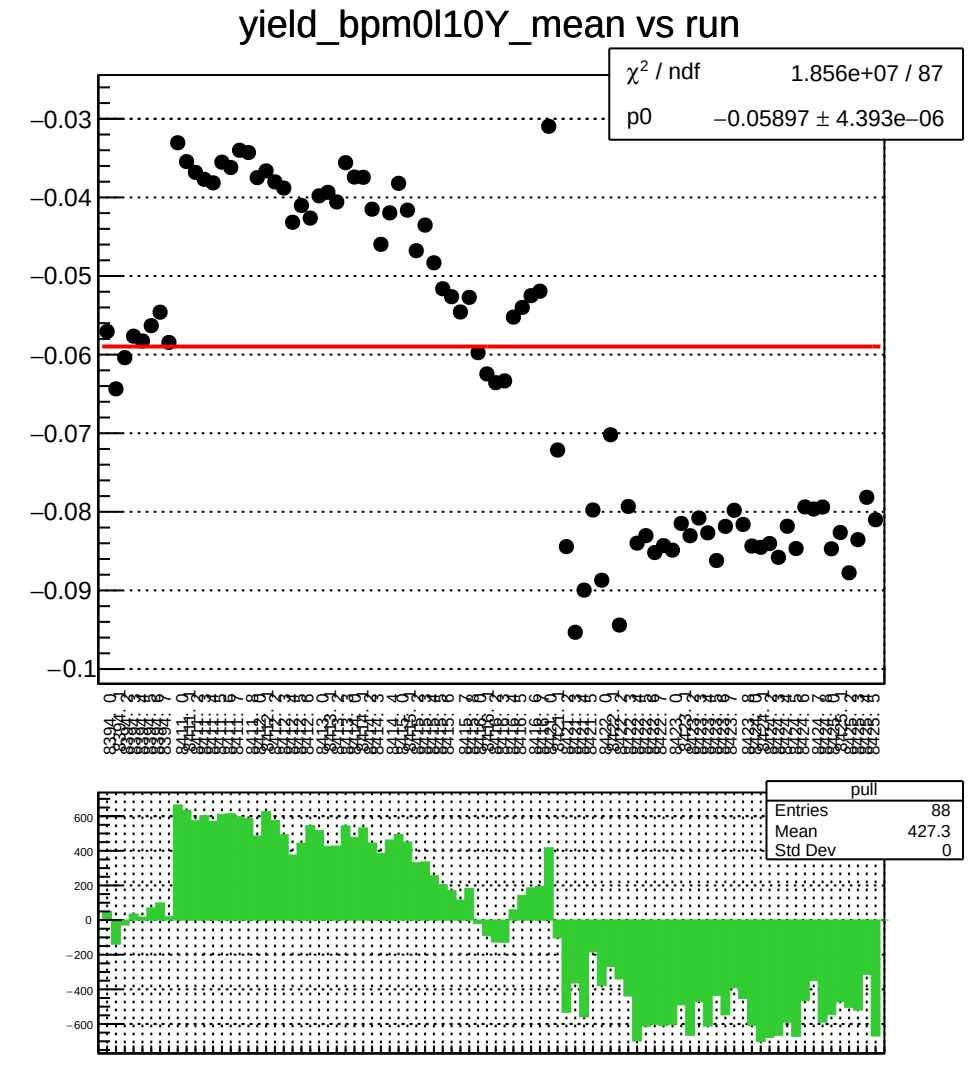

pull1D
Entries 88
Mean 5.423
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

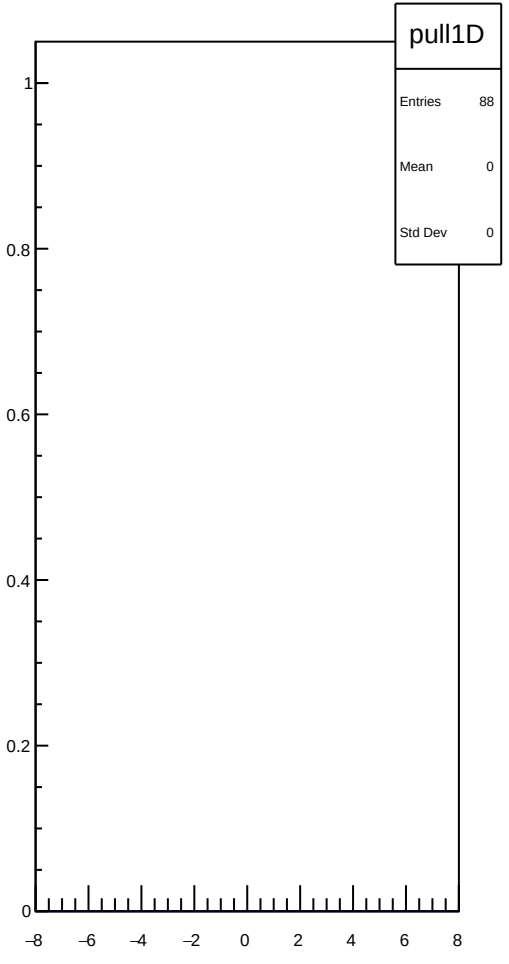

yield_bpm0l09Y_rms vs run
χ^2 / ndf 9.642e+04 / 87
p0 0.004265 ± 3.376e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

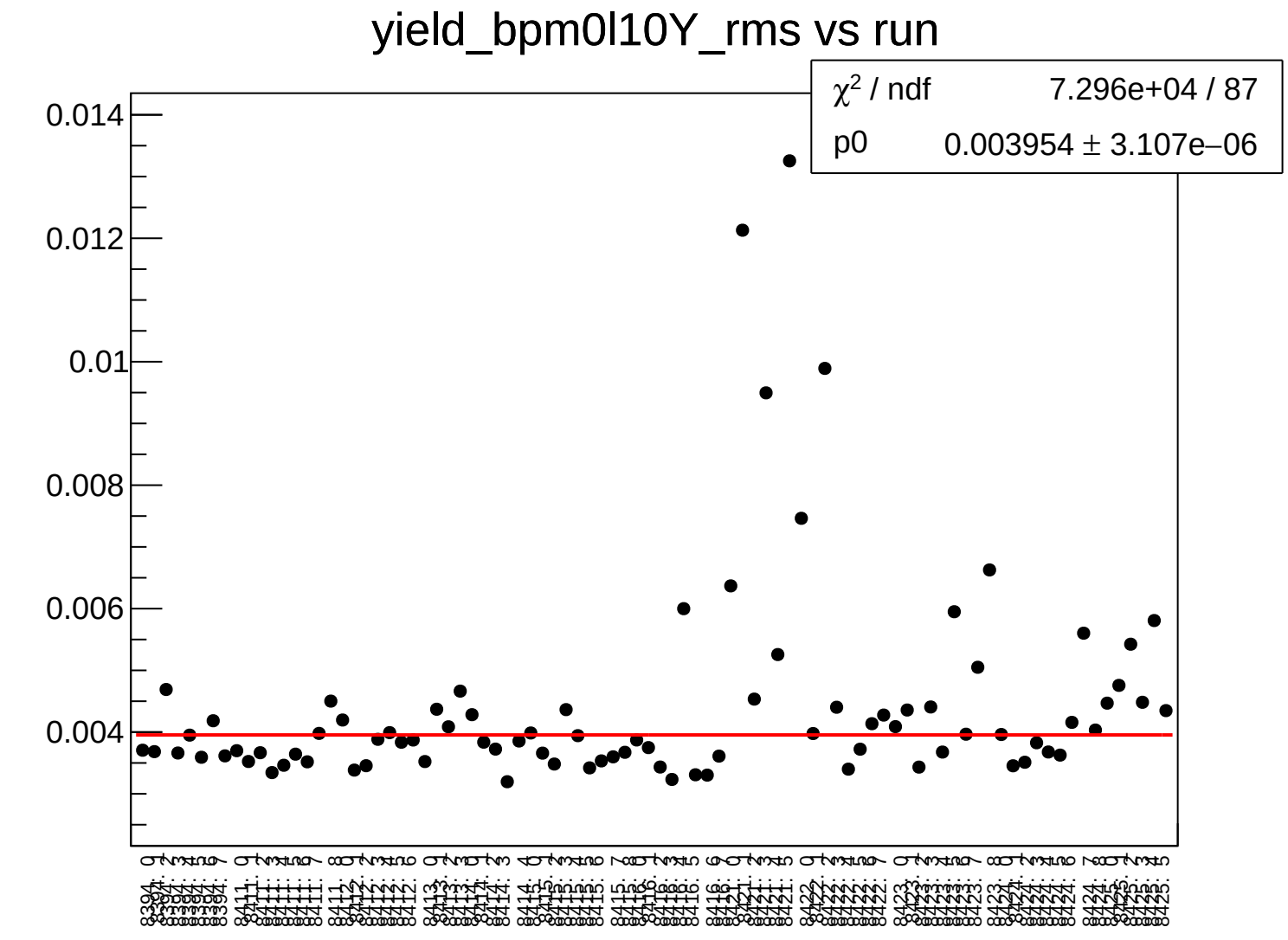

yield_bpm0l10X_mean vs run
χ² / ndf 4e+06 / 87
p0 −0.8628 ± 1.785e−05
−0.8
−0.85
−0.9
−0.95
−1
pull
Entries 88
Mean 473.1
Std Dev 0
200
0
−200
−400
−600
−800

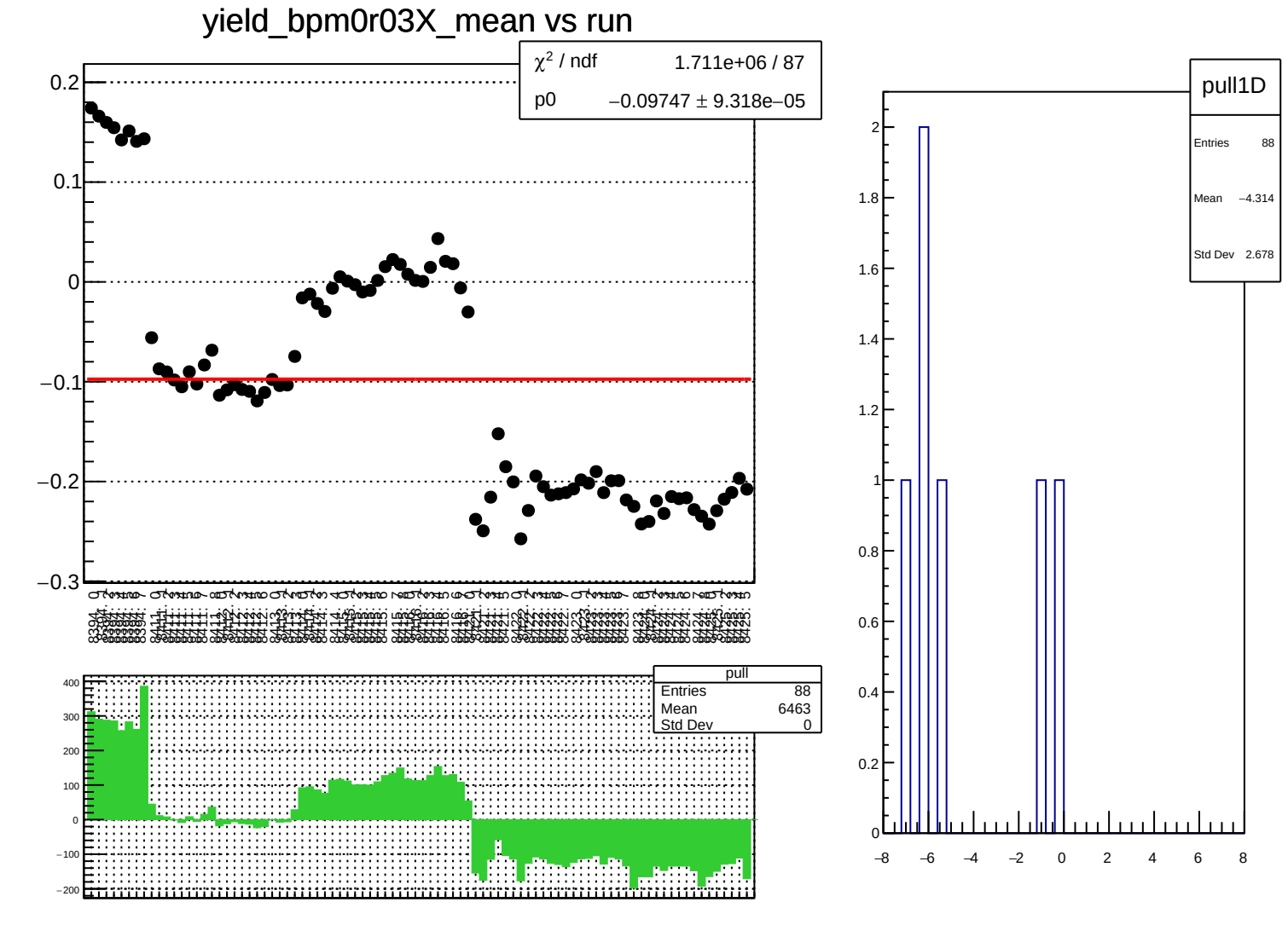

pull1D
Entries 88
Mean −3.935
Std Dev 3.489
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

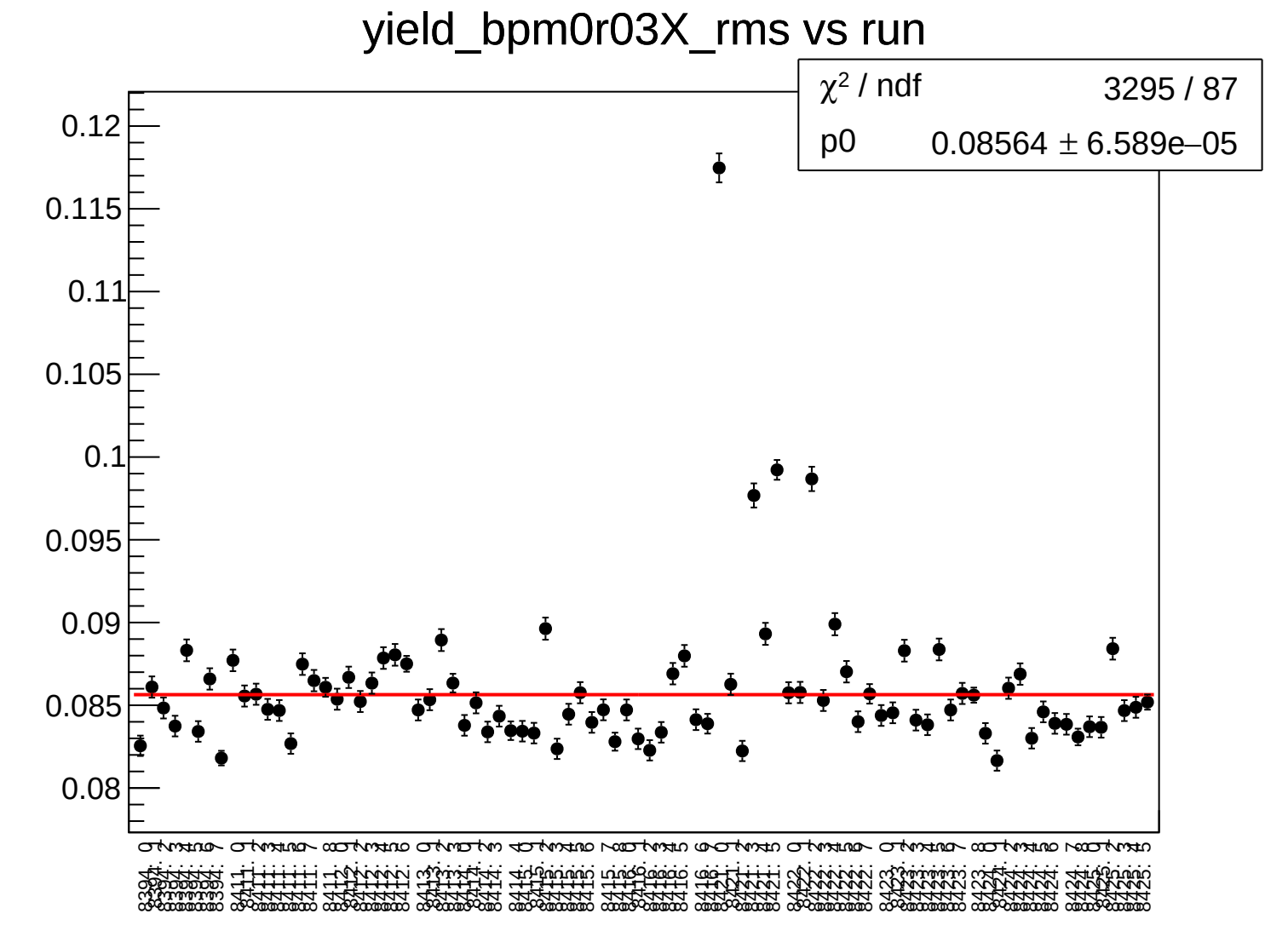

yield_bpm0l10X_rms vs run
χ² / ndf 8.446e+04 / 87
p0 0.01601 ± 1.262e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

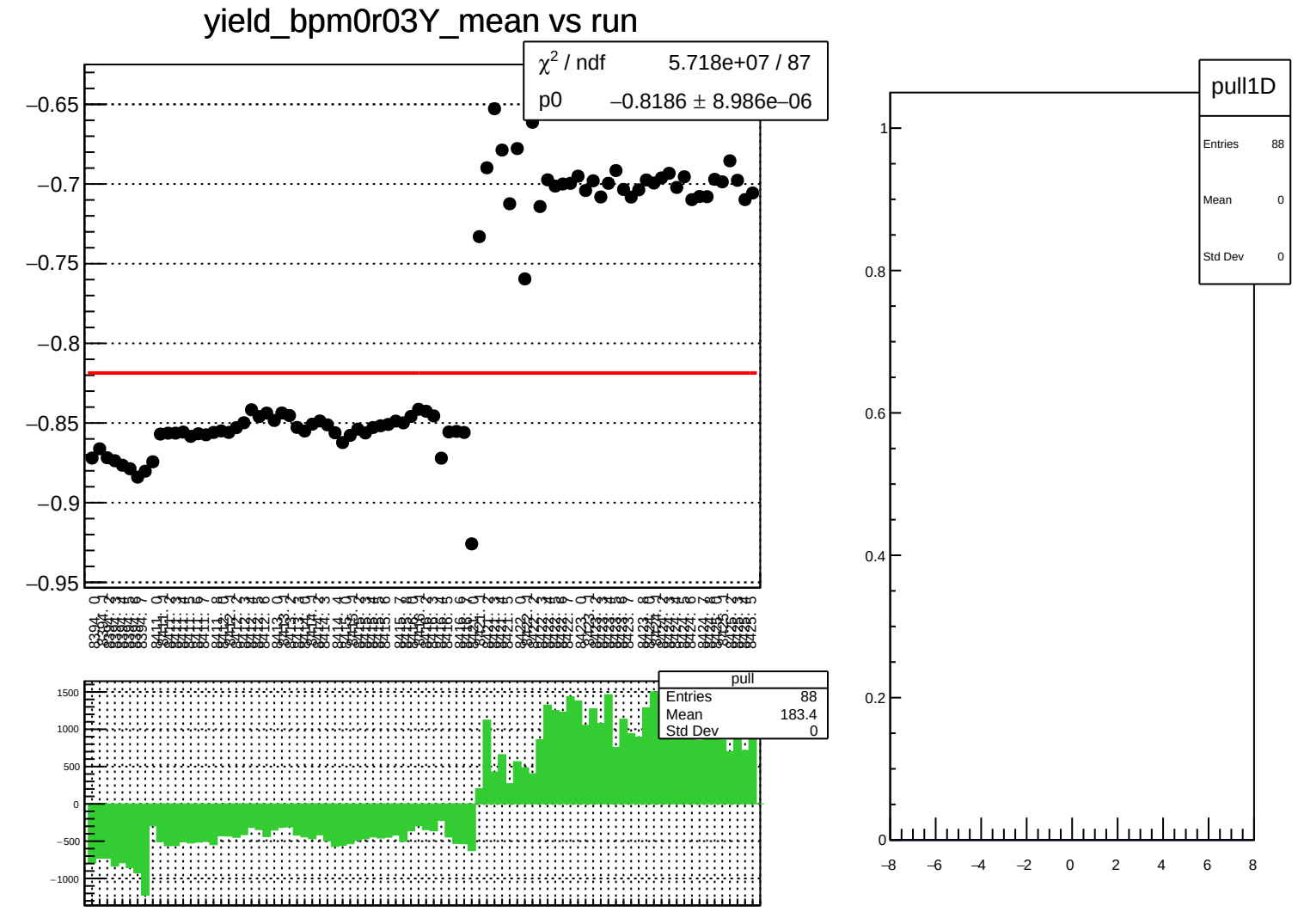

yield_bpm0l10Y_mean vs run
χ² / ndf 1.856e+07 / 87
p0 −0.05897 ± 4.393e−06
−0.03
−0.04
−0.05
−0.06
−0.07
−0.08
−0.09
−0.1
pull
Entries 88
Mean 427.3
Std Dev 0
600
400
200
0
−200
−400
−600

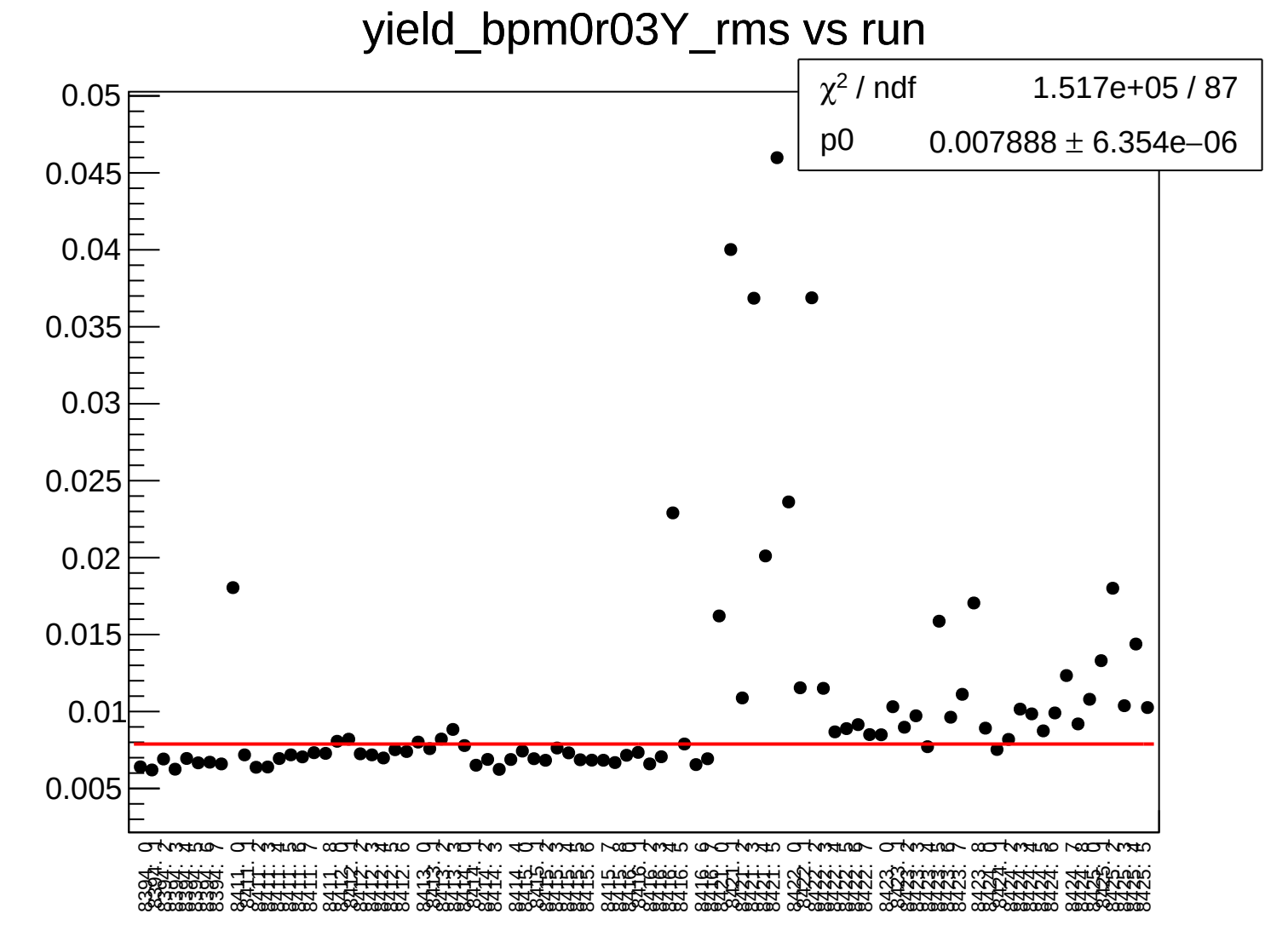

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

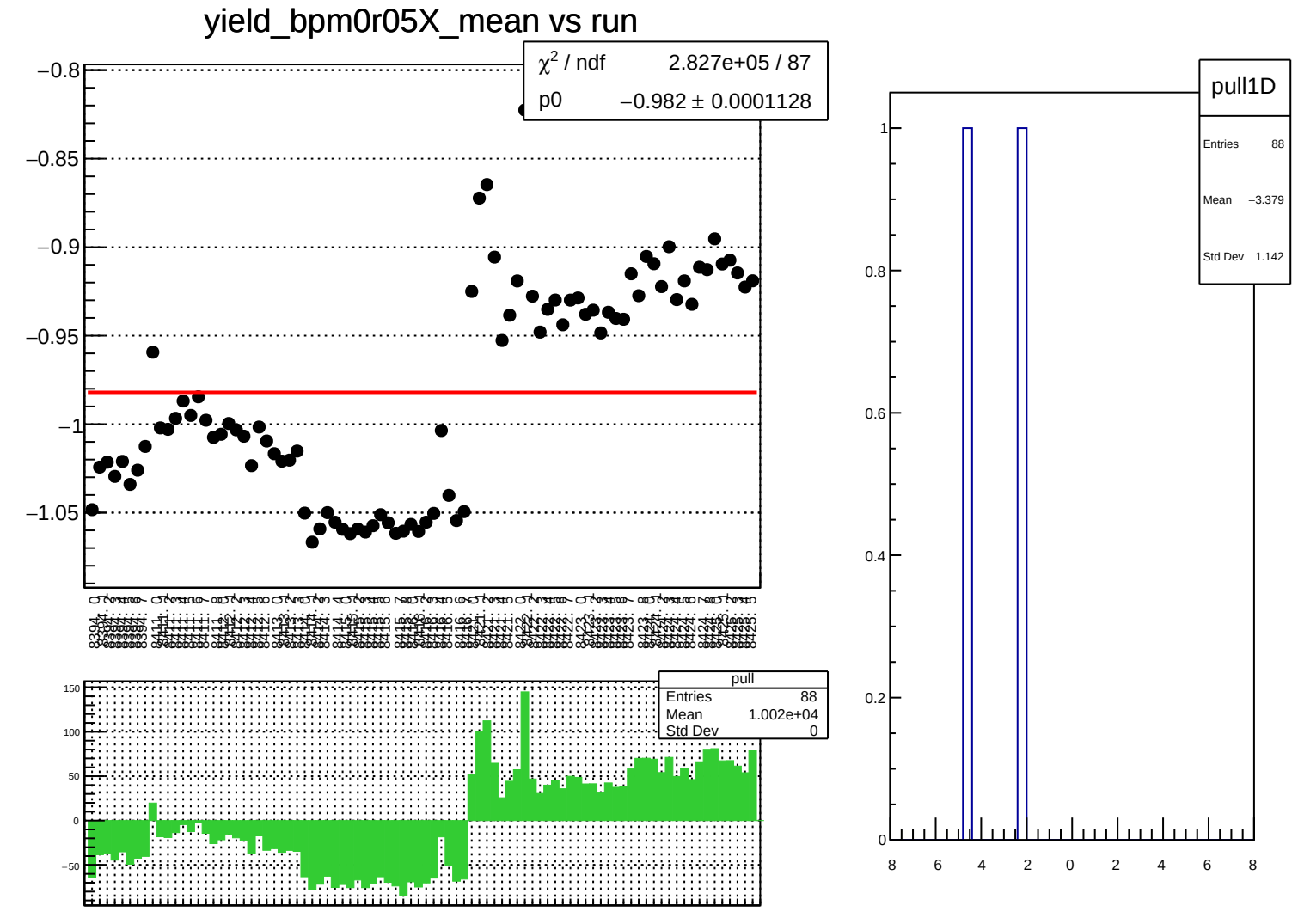

yield_bpm0l10Y_rms vs run
χ² / ndf 7.296e+04 / 87
p0 0.003954 ± 3.107e−06
0.014
0.012
0.01
0.008
0.006
0.004

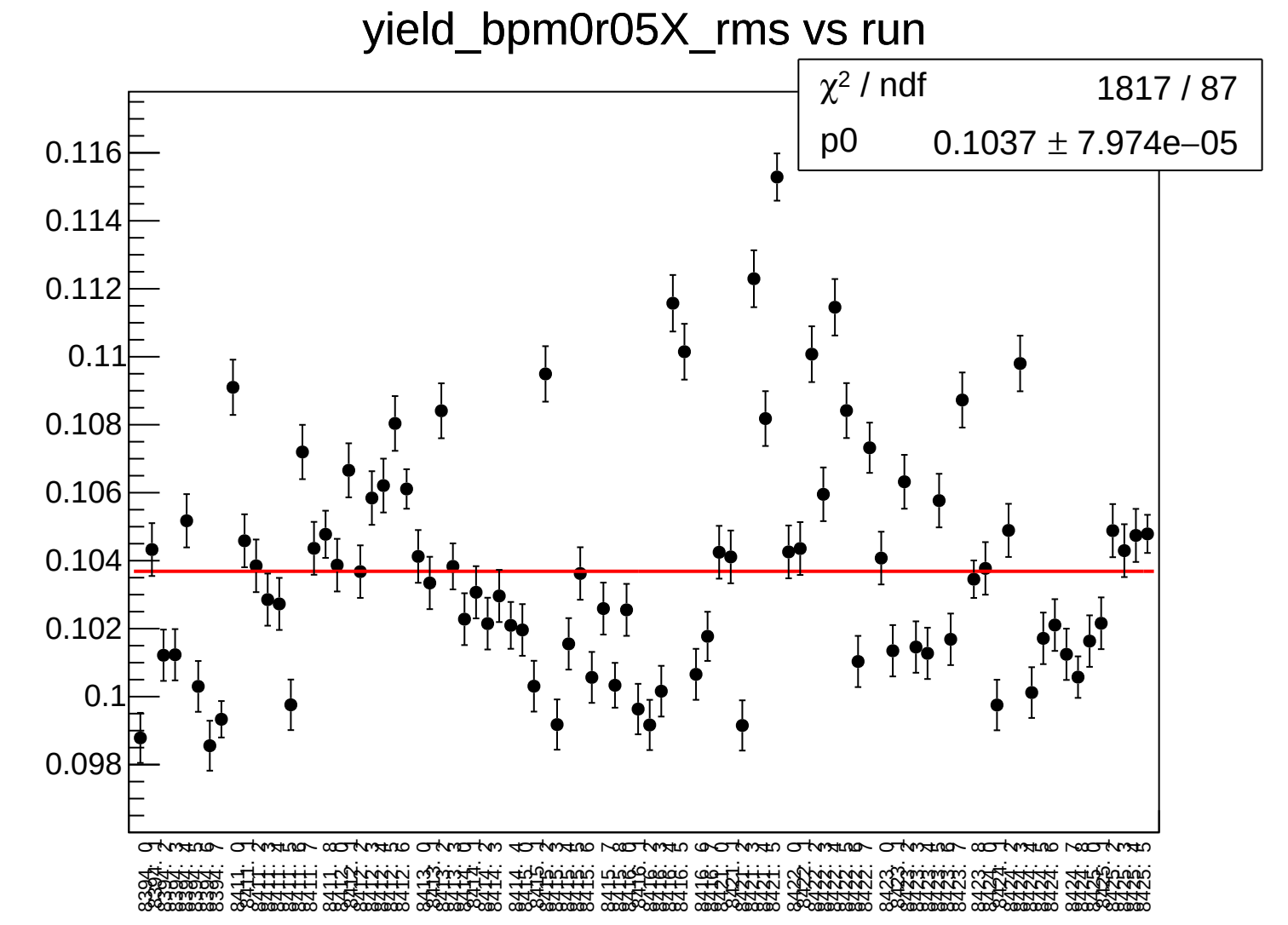

yield_bpm0r03X_mean vs run
χ² / ndf 1.711e+06 / 87
p0 −0.09747 ± 9.318e−05
pull
Entries 88
Mean 6463
Std Dev 0
pull1D
Entries 88
Mean −4.314
Std Dev 2.678

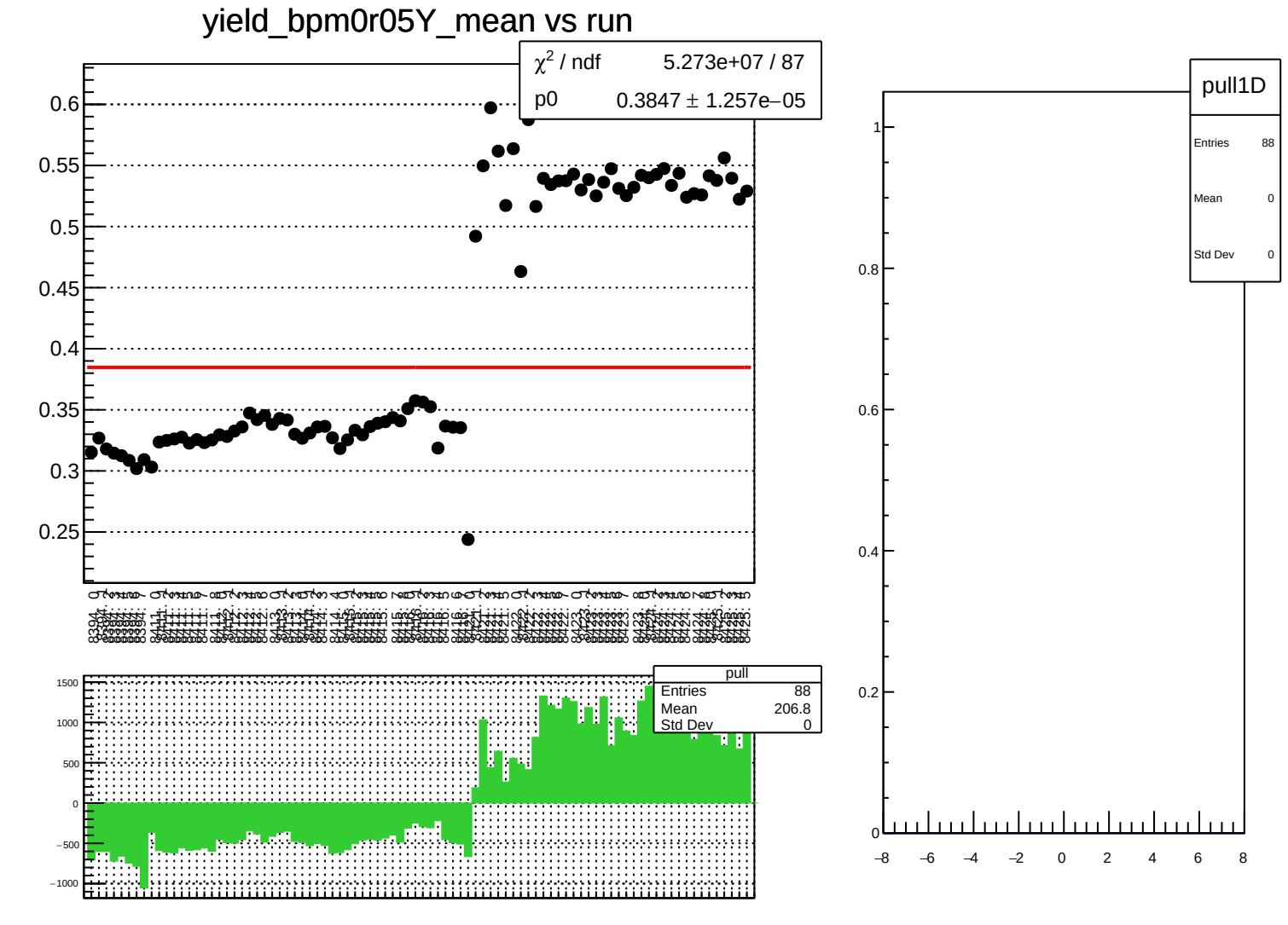

yield_bpm0r03X_rms vs run
χ² / ndf 3295 / 87
p0 0.08564 ± 6.589e–05
0.12
0.115
0.11
0.105
0.1
0.095
0.09
0.085
0.08

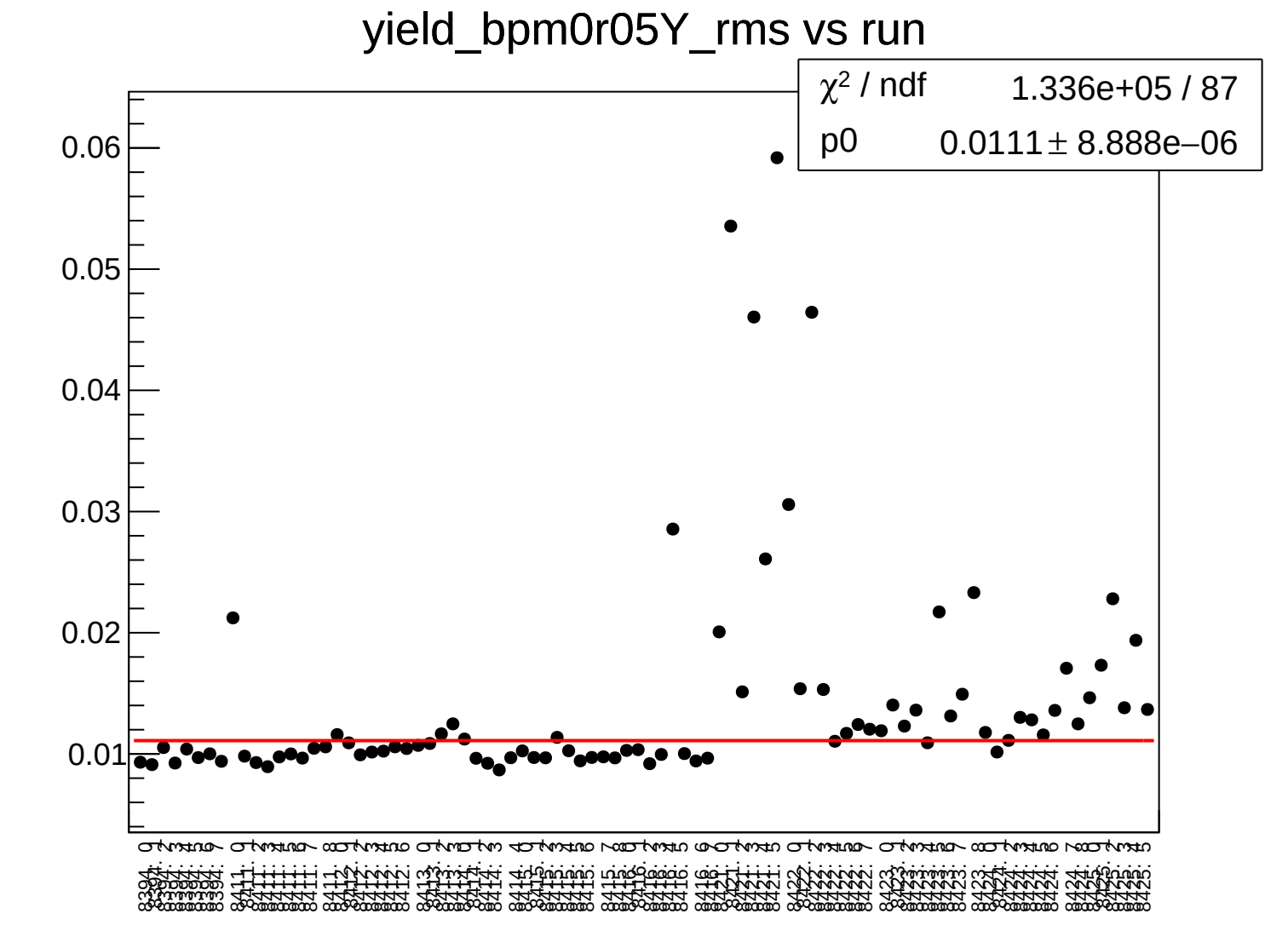

yield_bpm0r03Y_mean vs run
χ² / ndf 5.718e+07 / 87
p0 −0.8186 ± 8.986e−06
−0.65
−0.7
−0.75
−0.8
−0.85
−0.9
−0.95
pull
Entries 88
Mean 183.4
Std Dev 0
1500
1000
500
0
−500
−1000
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

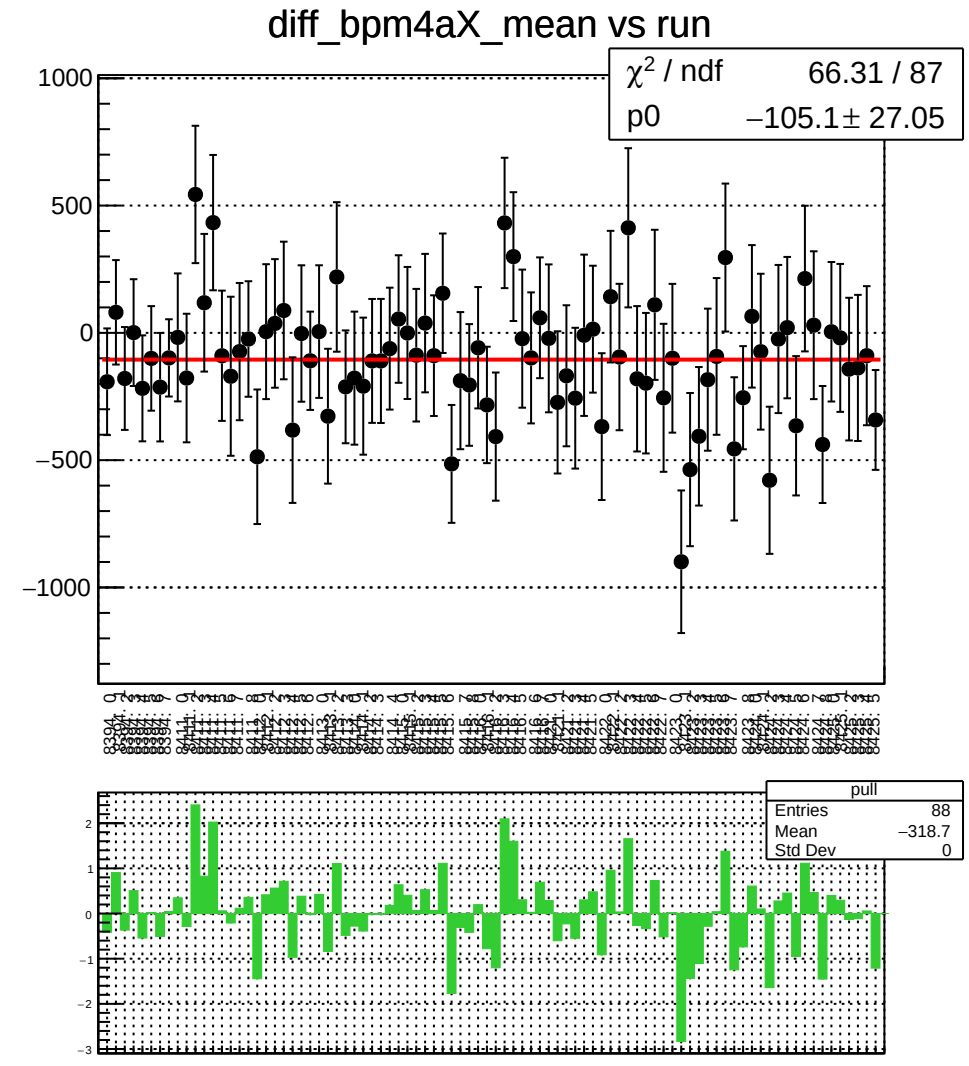

yield_bpm0r03Y_rms vs run
χ² / ndf 1.517e+05 / 87
p0 0.007888 ± 6.354e−06
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

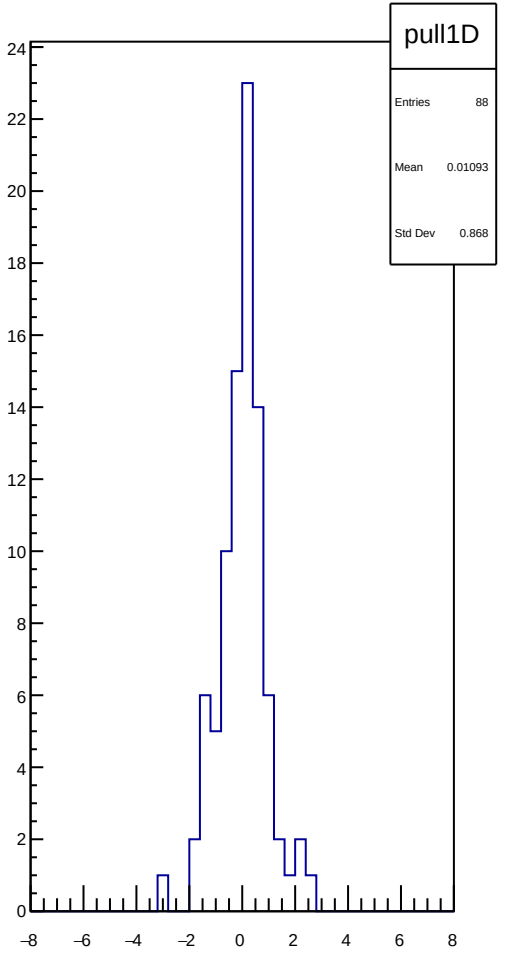

yield_bpm0r05X_mean vs run
χ² / ndf 2.827e+05 / 87
p0 −0.982 ± 0.0001128
−0.8
−0.85
−0.9
−0.95
−1
−1.05
pull
Entries 88
Mean 1.002e+04
Std Dev 0
150
100
50
0
−50
pull1D
Entries 88
Mean −3.379
Std Dev 1.142
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0r05X_rms vs run
χ² / ndf 1817 / 87
p0 0.1037 ± 7.974e–05
0.116
0.114
0.112
0.11
0.108
0.106
0.104
0.102
0.1
0.098

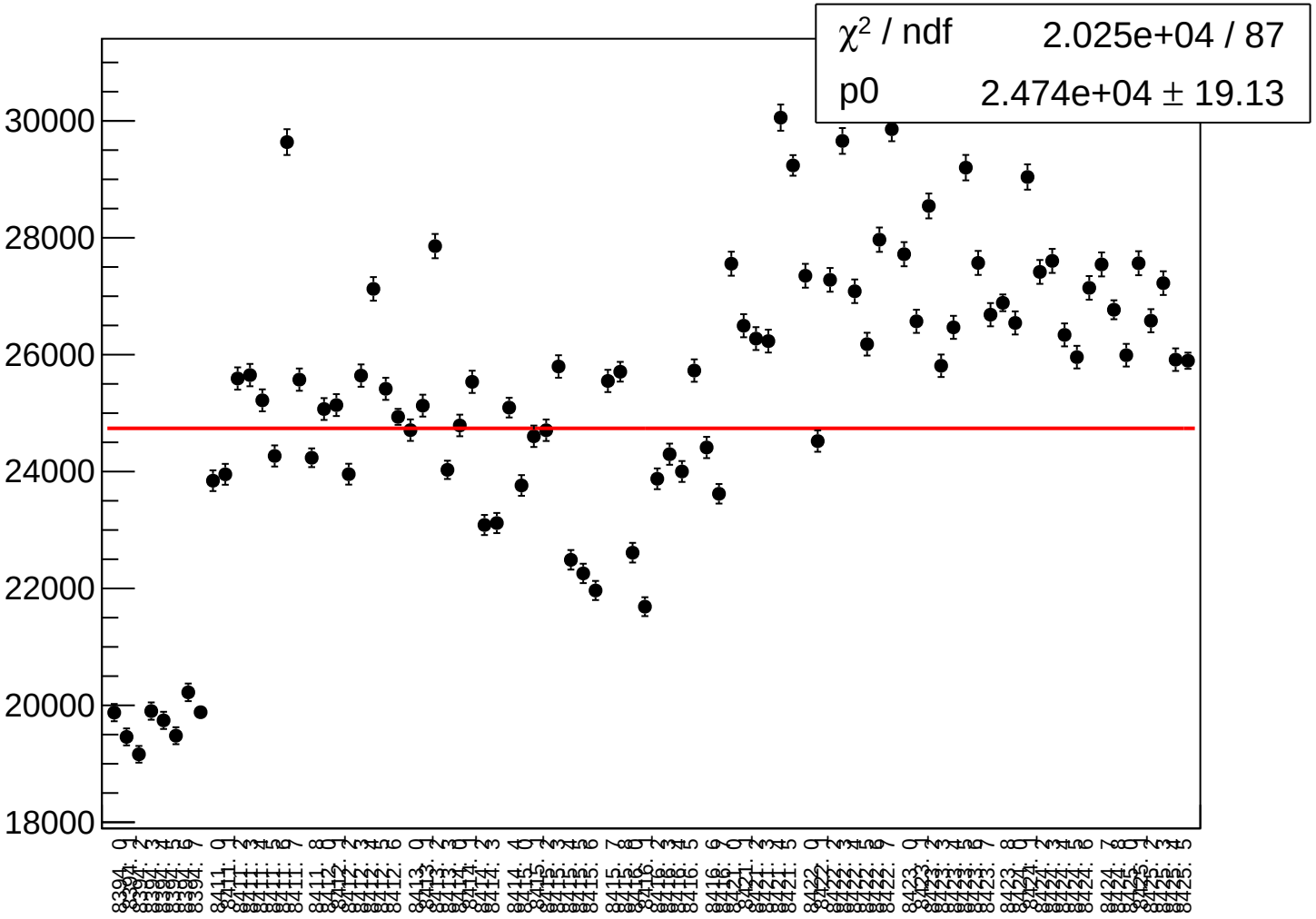

yield_bpm0r05Y_mean vs run
χ² / ndf 5.273e+07 / 87
p0 0.3847 ± 1.257e−05
pull
Entries 88
Mean 206.8
Std Dev 0
pull1D
Entries 88
Mean 0
Std Dev 0

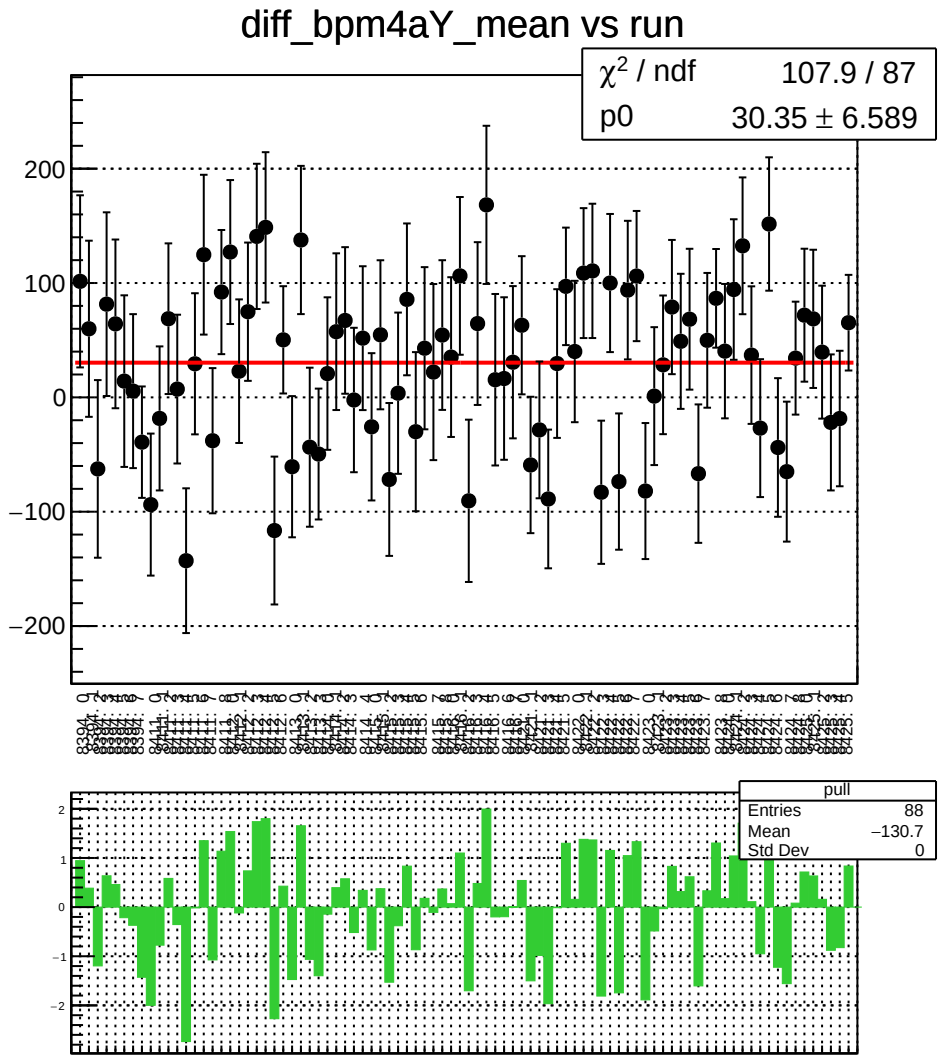

yield_bpm0r05Y_rms vs run
χ² / ndf 1.336e+05 / 87
p0 0.0111 ± 8.888e−06
0.06
0.05
0.04
0.03
0.02
0.01

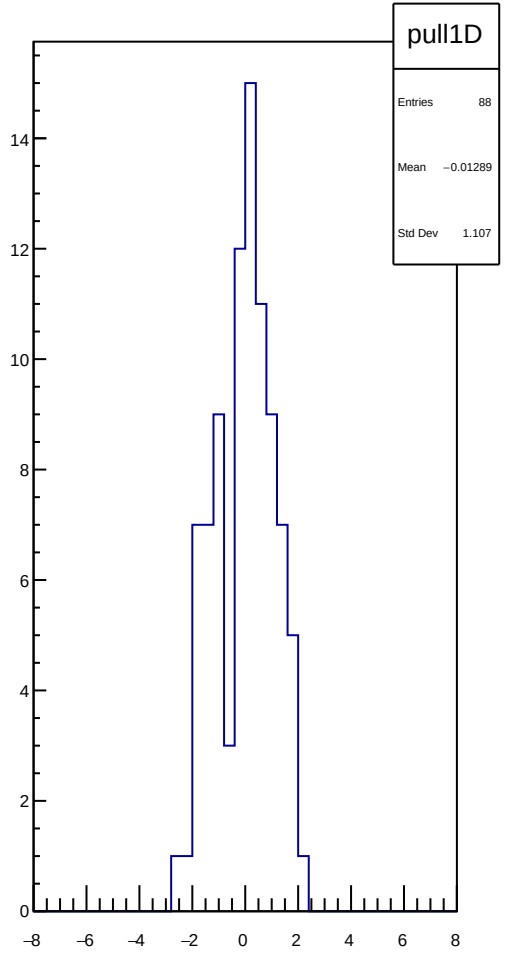

diff_bpm4aX_mean vs run
χ² / ndf 66.31 / 87
p0 −105.1± 27.05
1000
500
0
−500
−1000
pull
Entries 88
Mean −318.7
Std Dev 0
2
1
0
−1
−2
−3

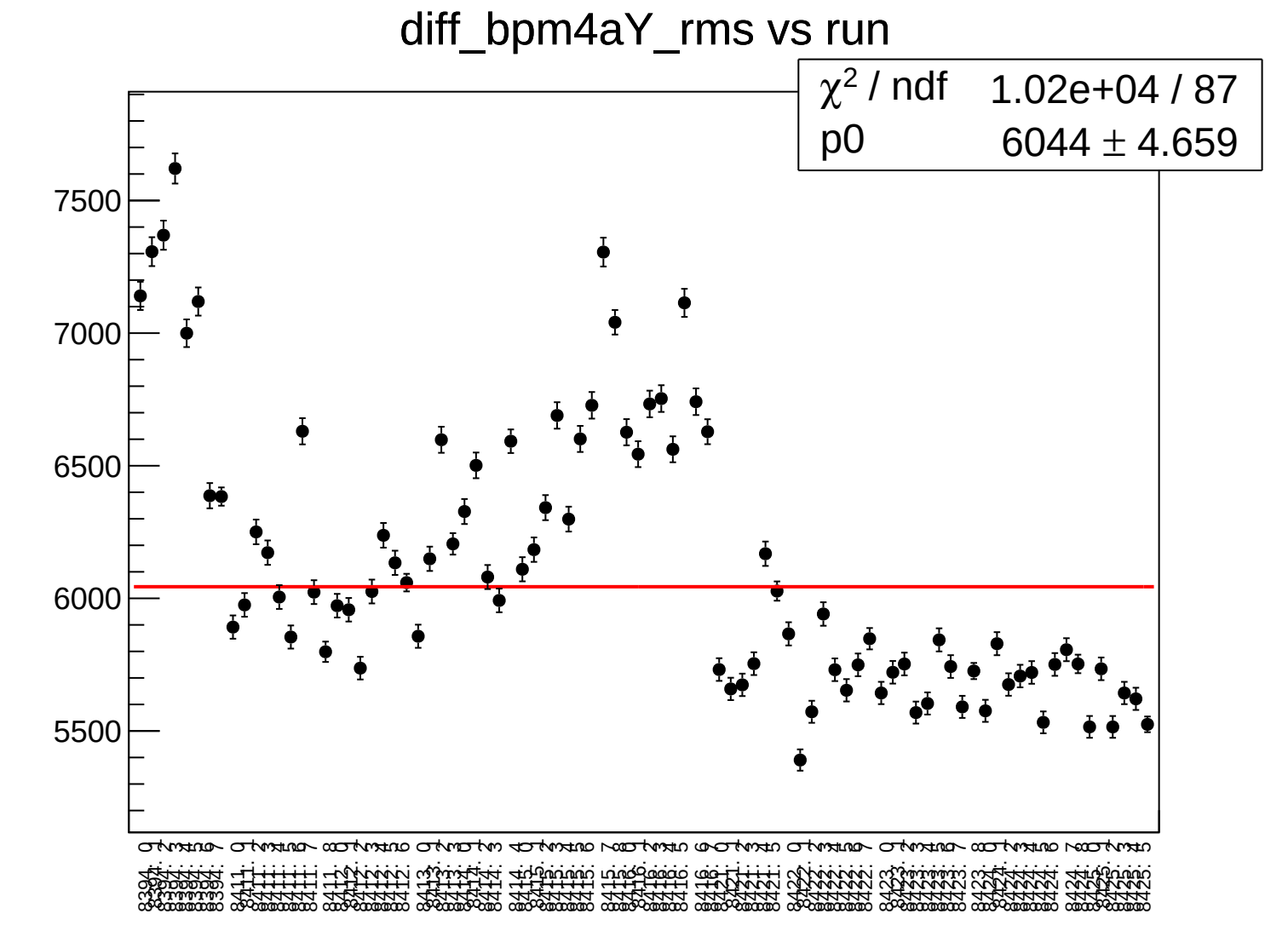

pull1D
Entries 88
Mean 0.01093
Std Dev 0.868
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

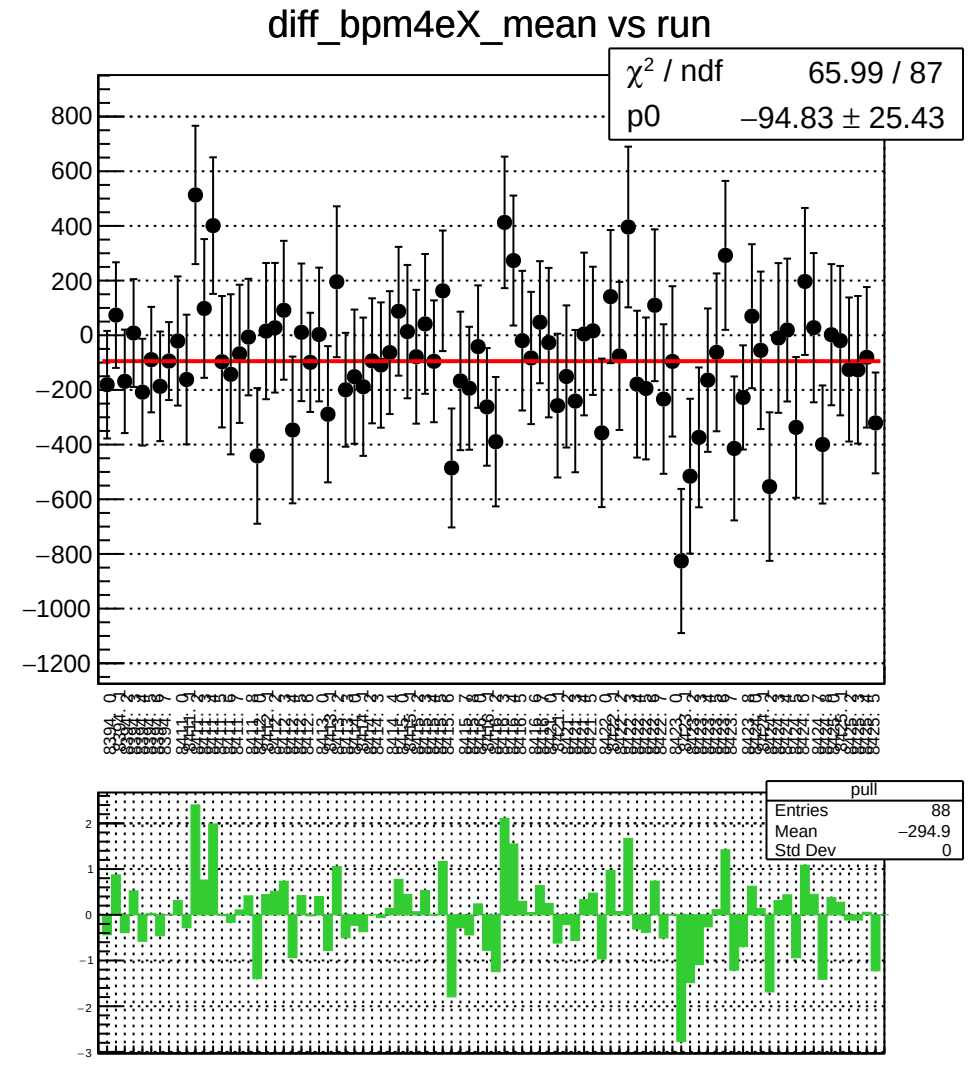
diff_bpm4aX_rms vs run

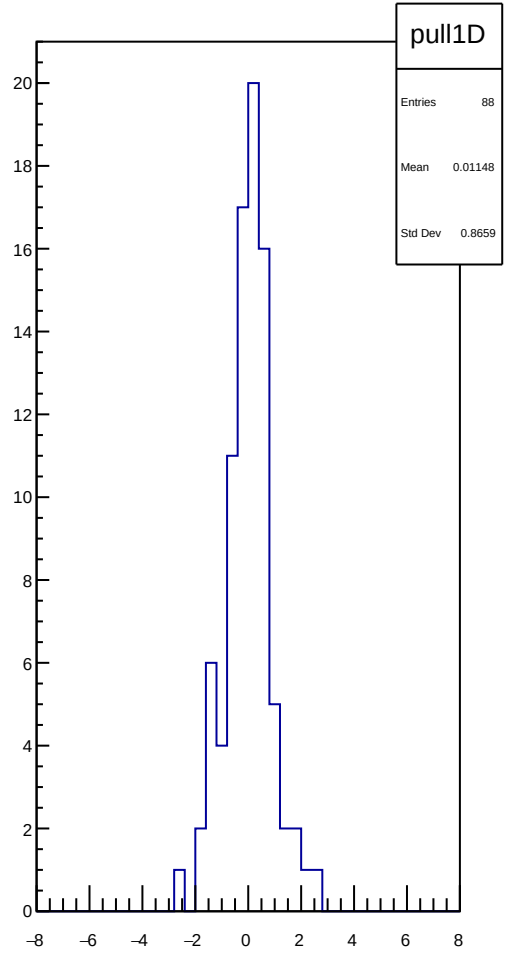


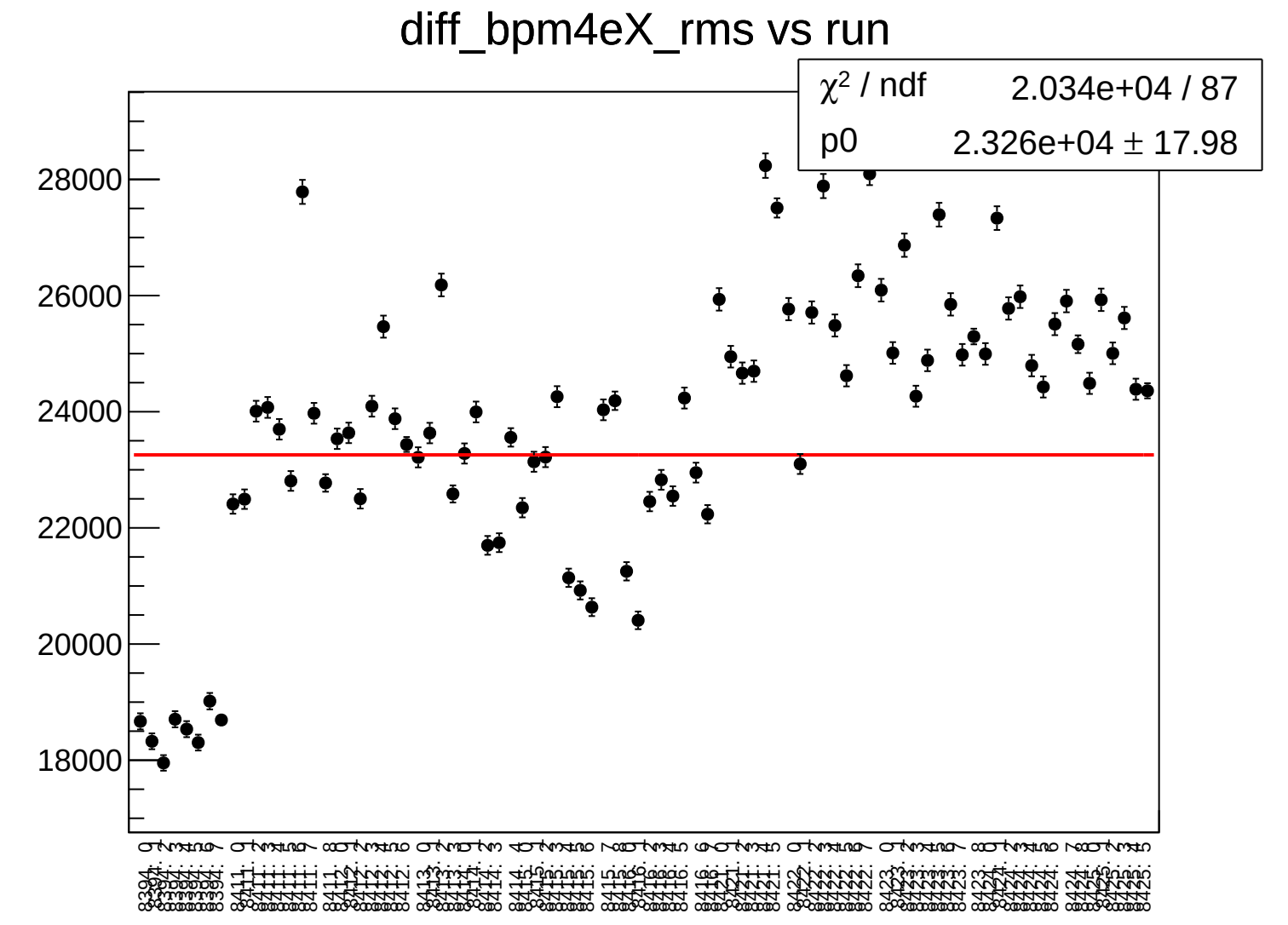

diff_bpm4aY_mean vs run
χ² / ndf 107.9 / 87
p0 30.35 ± 6.589
200
100
0
−100
−200
pull
Entries 88
Mean −130.7
Std Dev 0
2
1
0
−1
−2

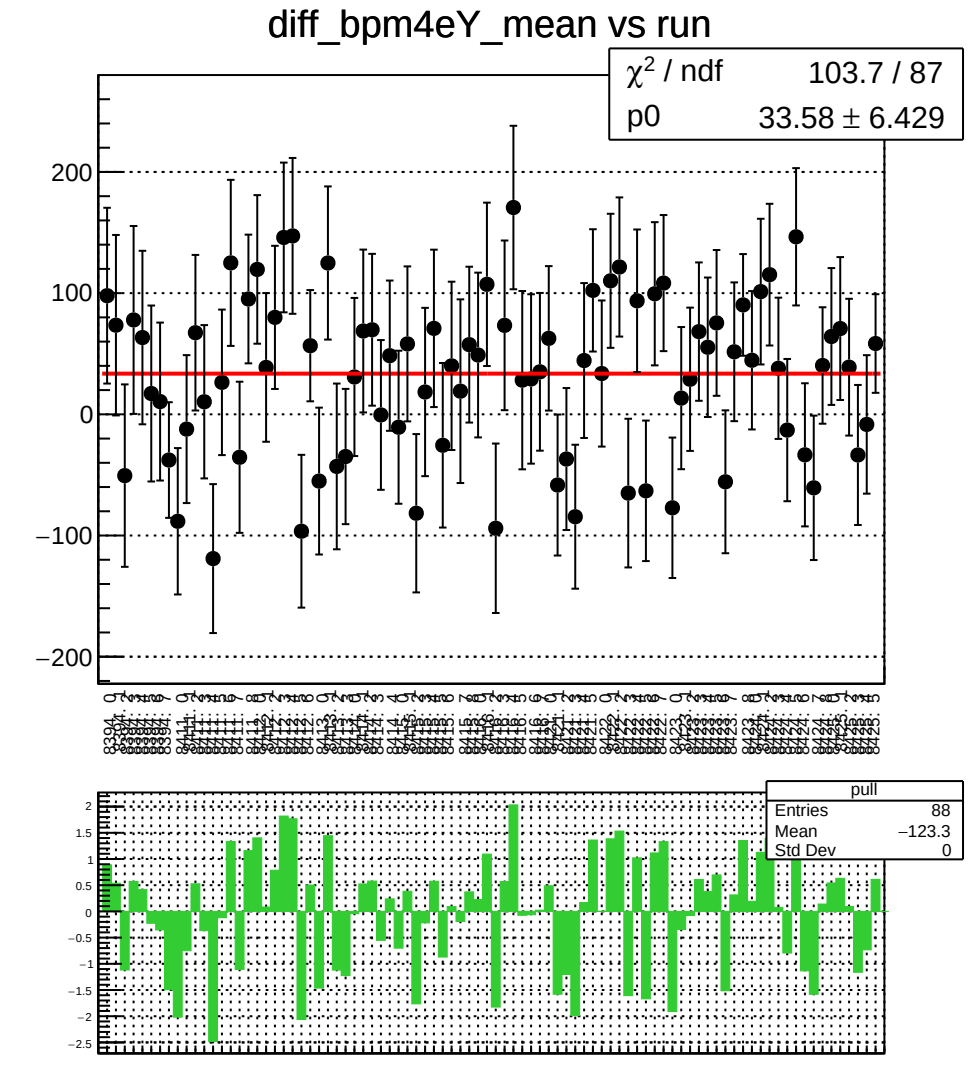

pull1D
Entries 88
Mean −0.01289
Std Dev 1.107
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

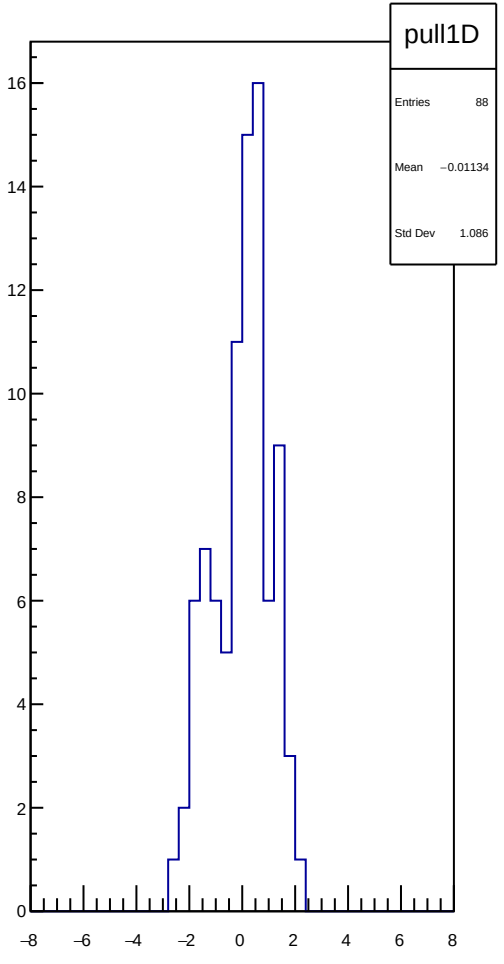

diff_bpm4aY_rms vs run
χ² / ndf 1.02e+04 / 87
p0 6044 ± 4.659
7500
7000
6500
6000
5500

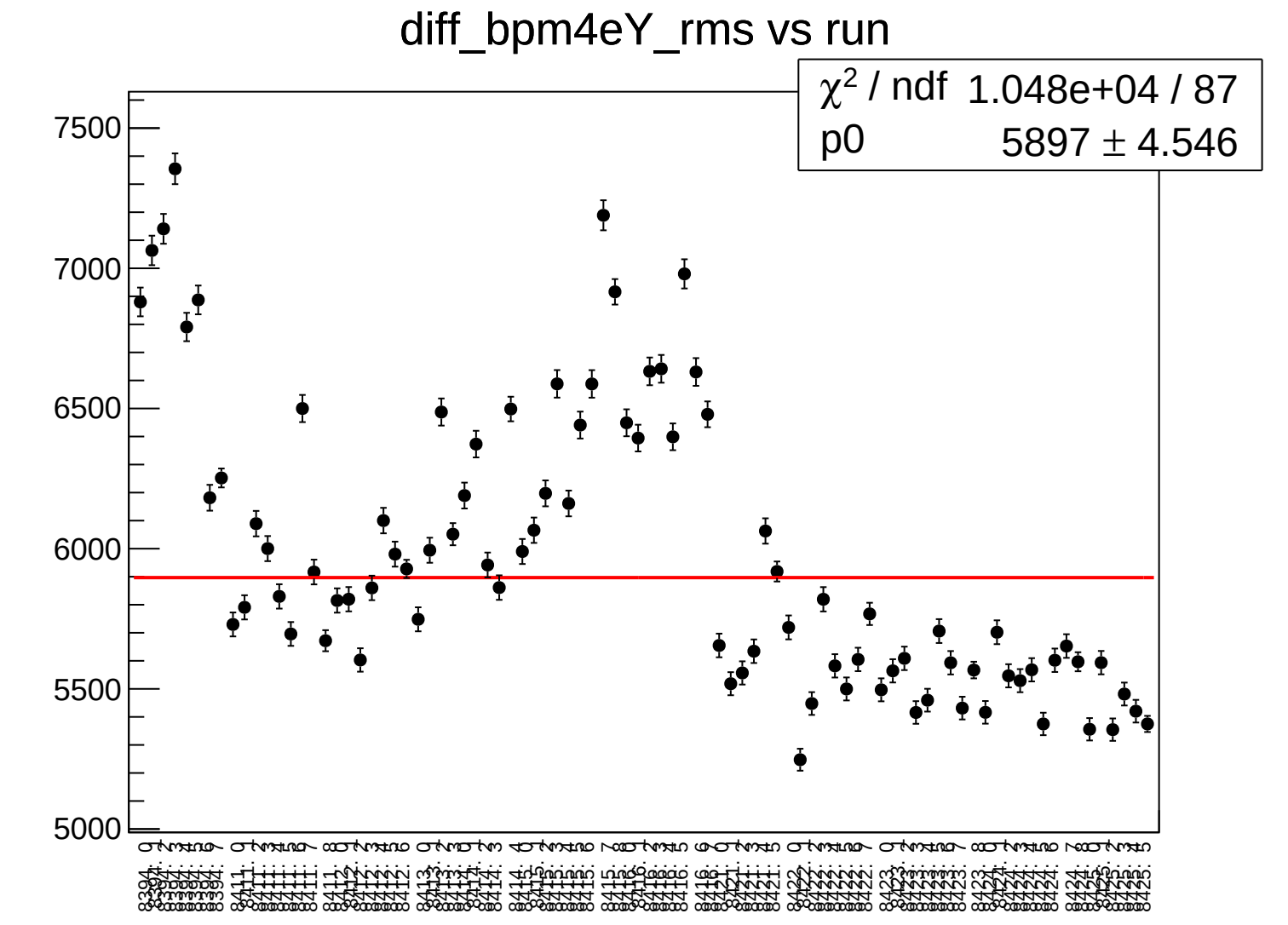

diff_bpm4eX_mean vs run
χ² / ndf 65.99 / 87
p0 −94.83 ± 25.43
pull
Entries 88
Mean −294.9
Std Dev 0

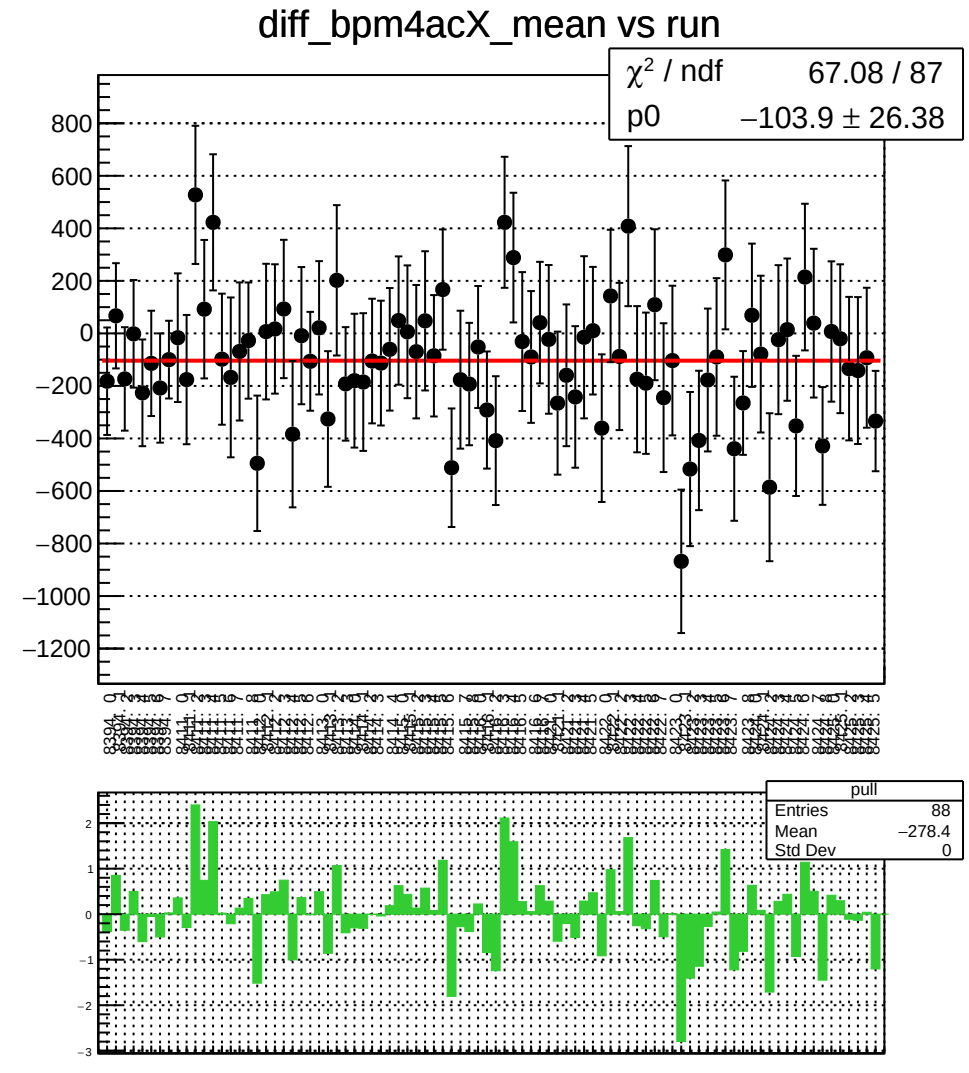

pull1D
Entries 88
Mean 0.01148
Std Dev 0.8659

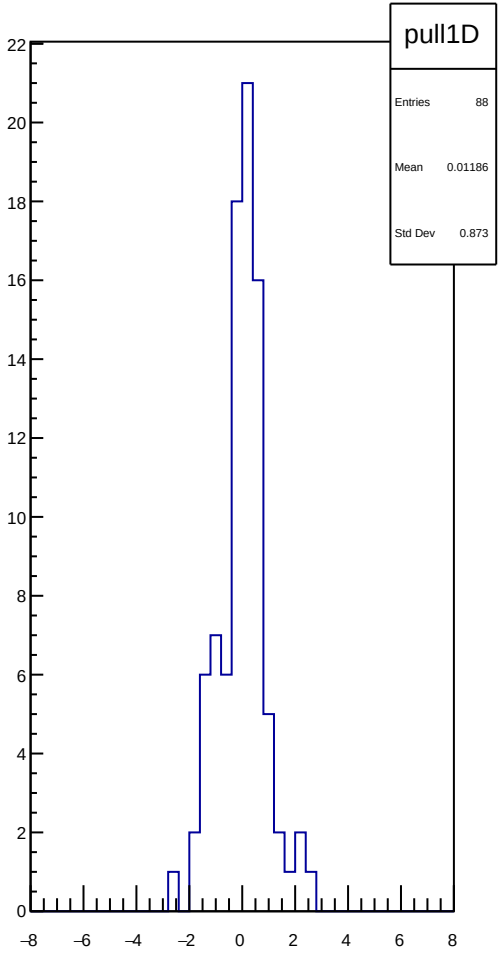

diff_bpm4eX_rms vs run
χ² / ndf 2.034e+04 / 87
p0 2.326e+04 ± 17.98
28000
26000
24000
22000
20000
18000

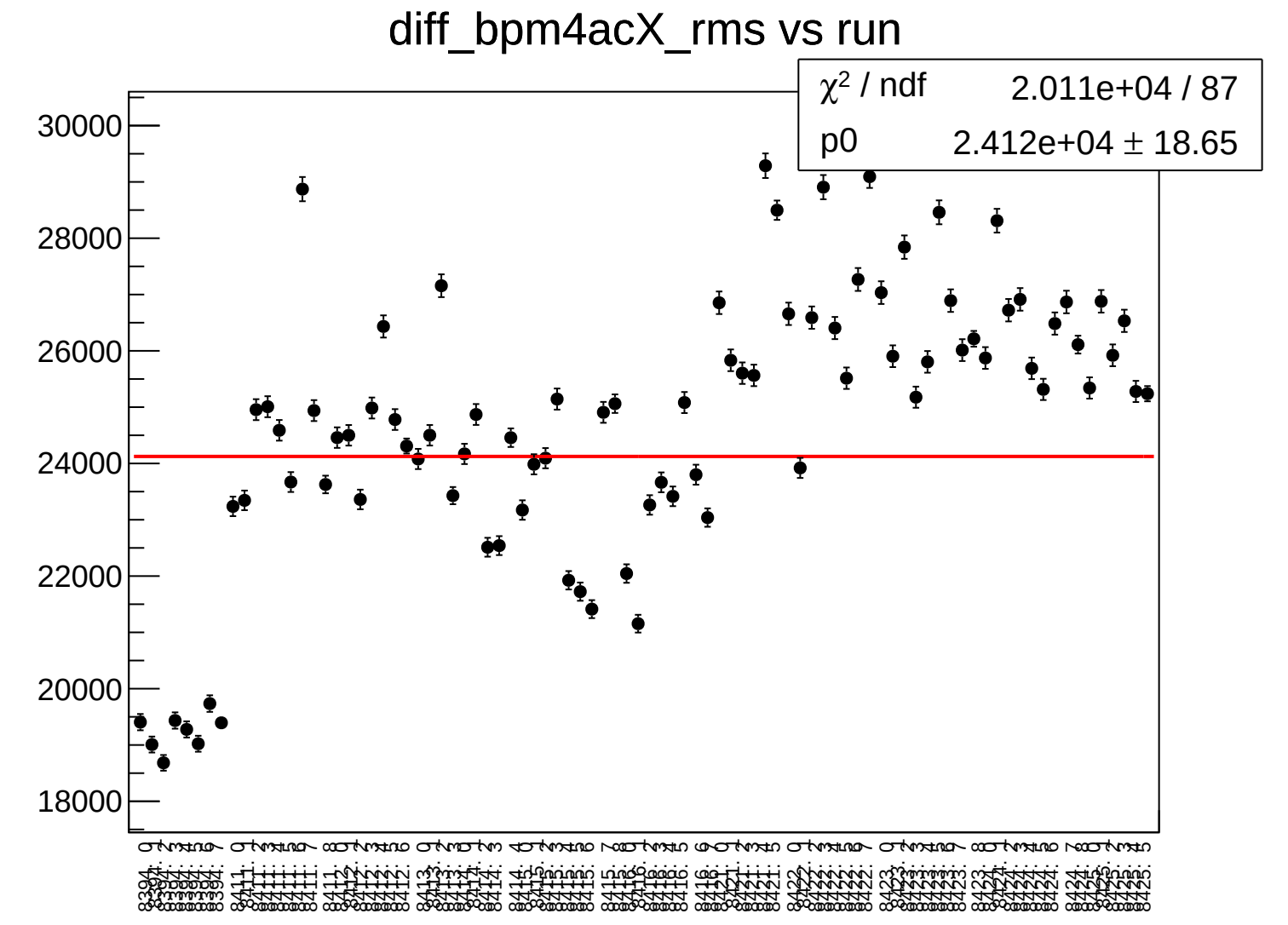

diff_bpm4eY_mean vs run
χ² / ndf 103.7 / 87
p0 33.58 ± 6.429
200
100
0
−100
−200
pull
Entries 88
Mean −123.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

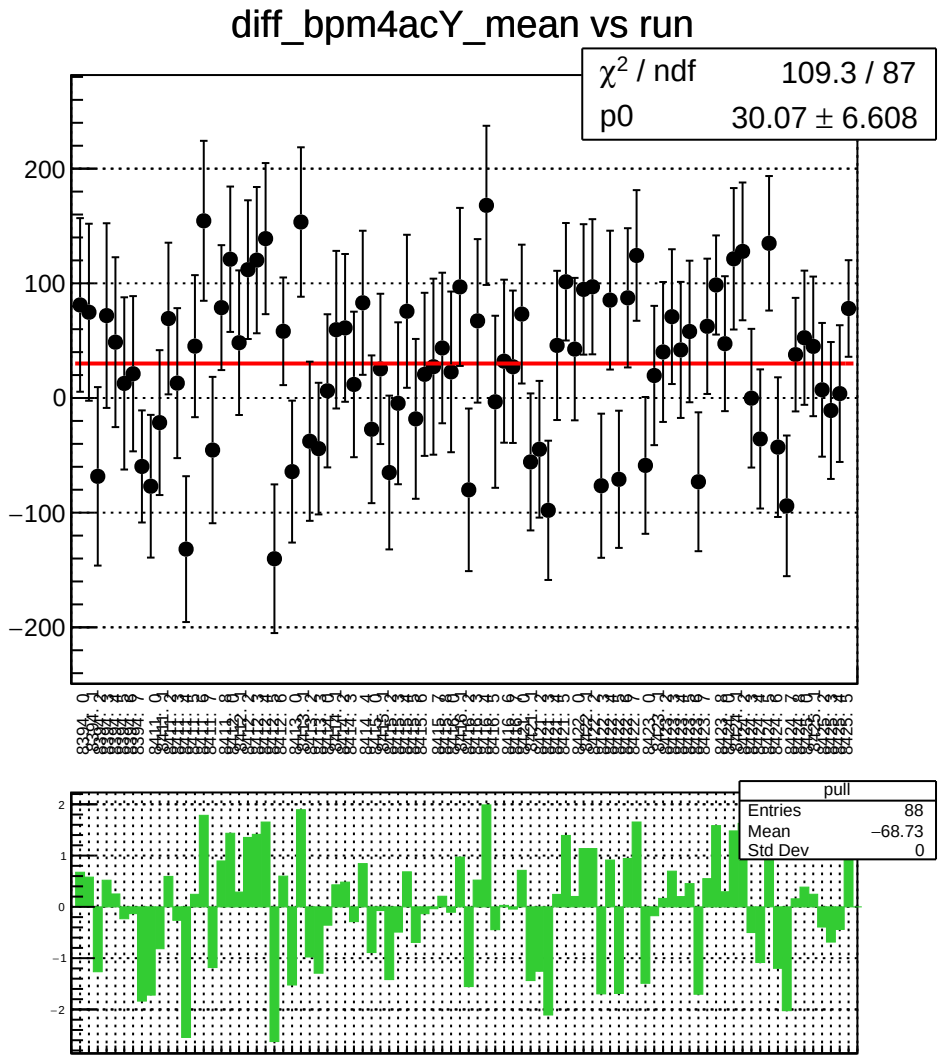

pull1D
Entries 88
Mean −0.01134
Std Dev 1.086
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

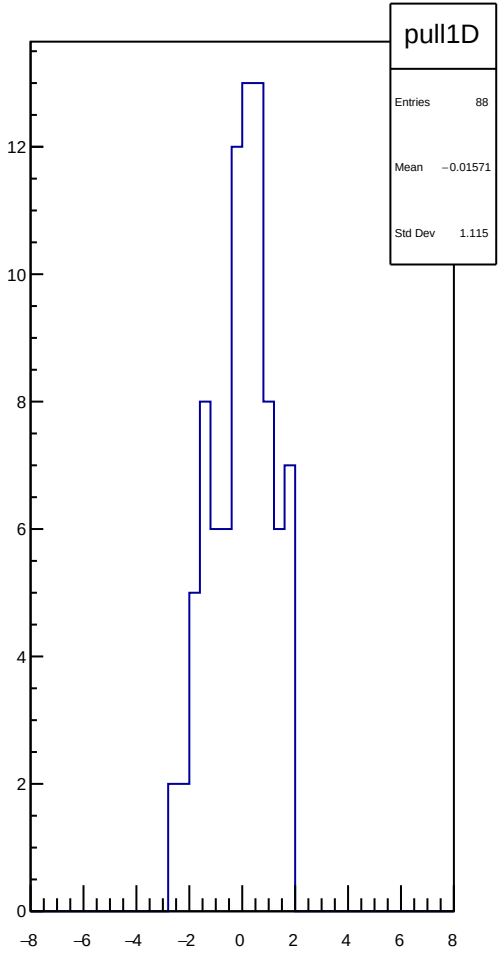

diff_bpm4eY_rms vs run
χ² / ndf 1.048e+04 / 87
p0 5897 ± 4.546
7500
7000
6500
6000
5500
5000

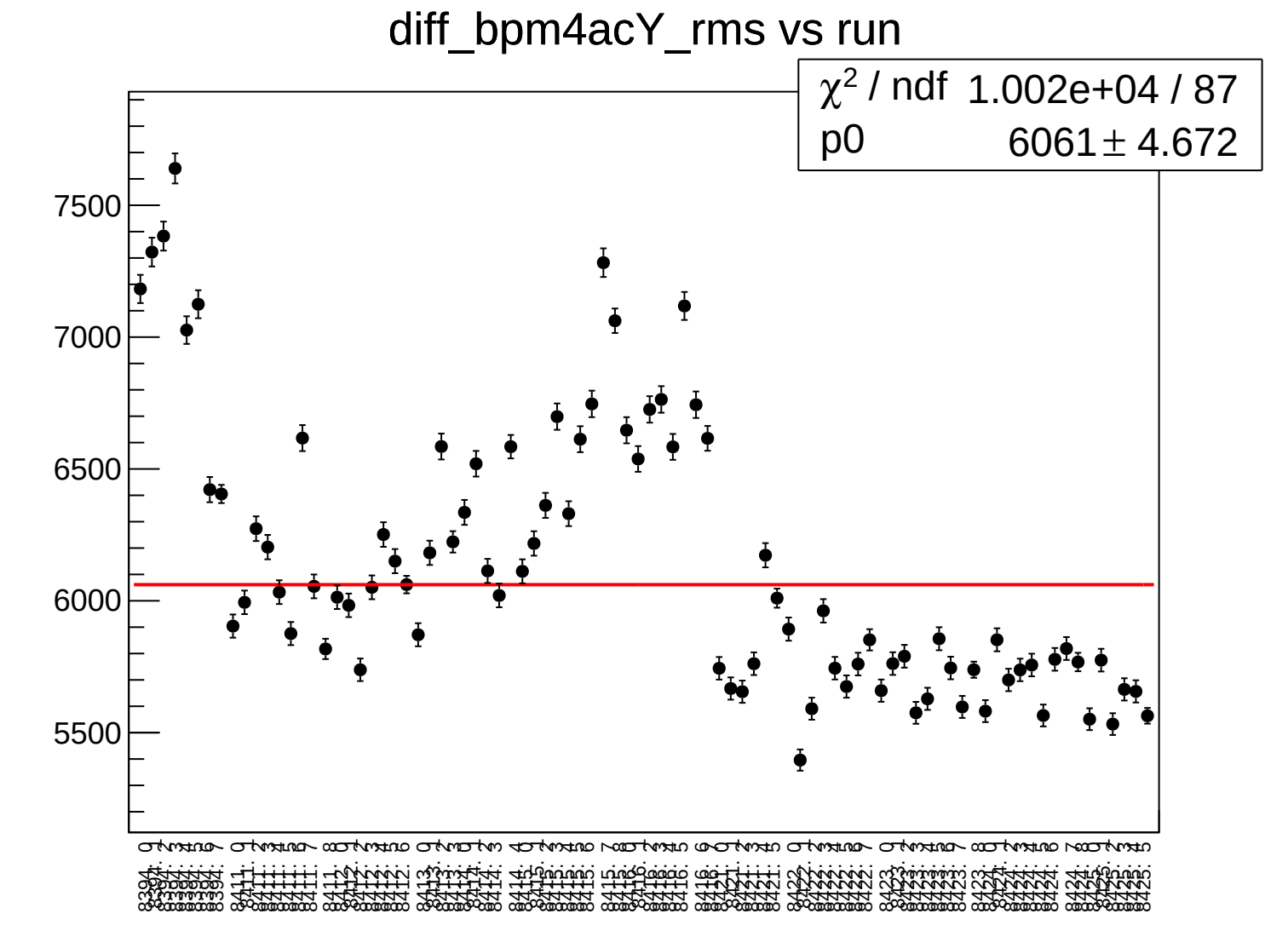

diff_bpm4acX_mean vs run
χ² / ndf 67.08 / 87
p0 −103.9 ± 26.38
pull
Entries 88
Mean −278.4
Std Dev 0

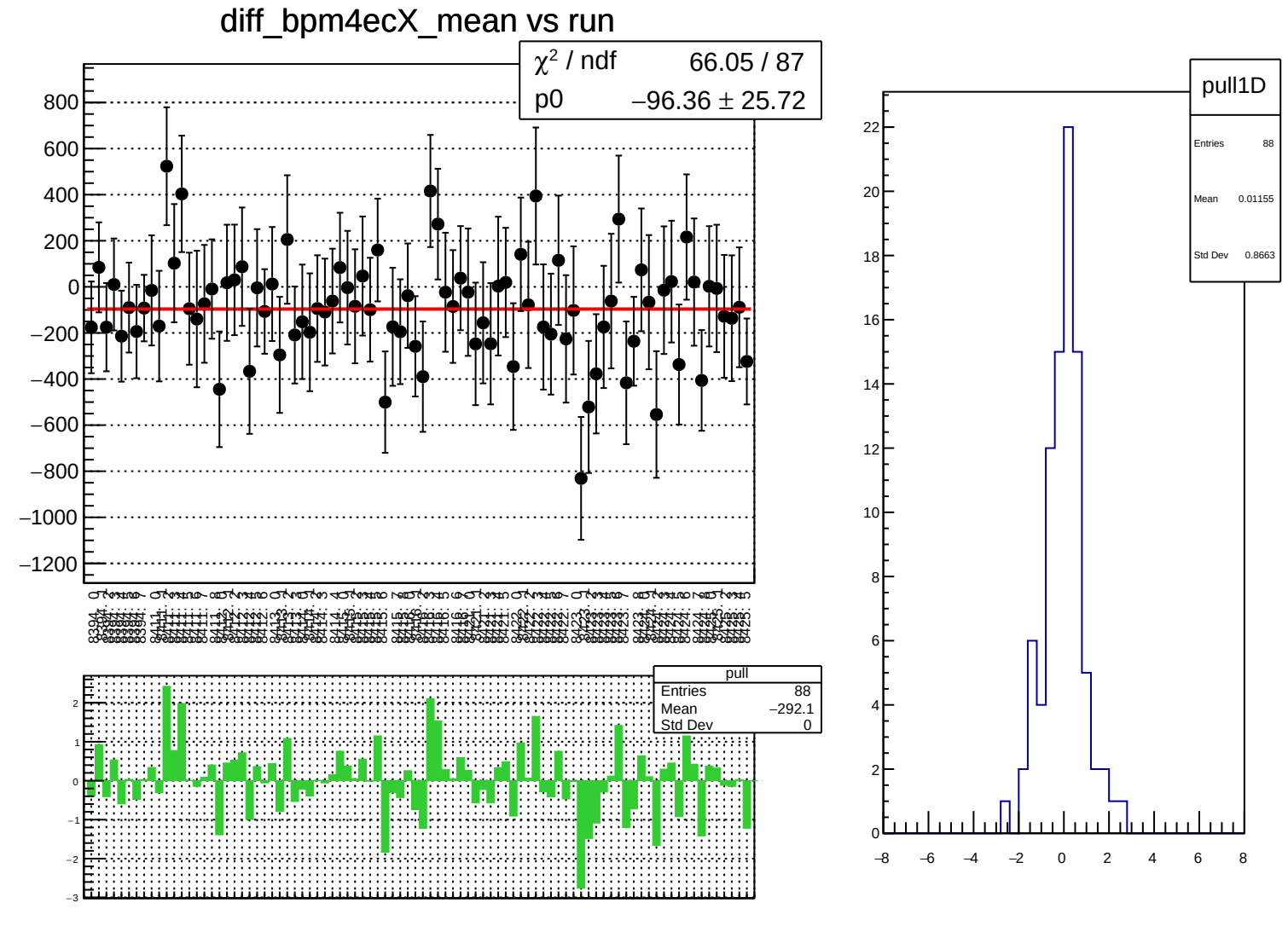

pull1D
Entries 88
Mean 0.01186
Std Dev 0.873


diff_bpm4acX_rms vs run
χ² / ndf 2.011e+04 / 87
p0 2.412e+04 ± 18.65
30000
28000
26000
24000
22000
20000
18000

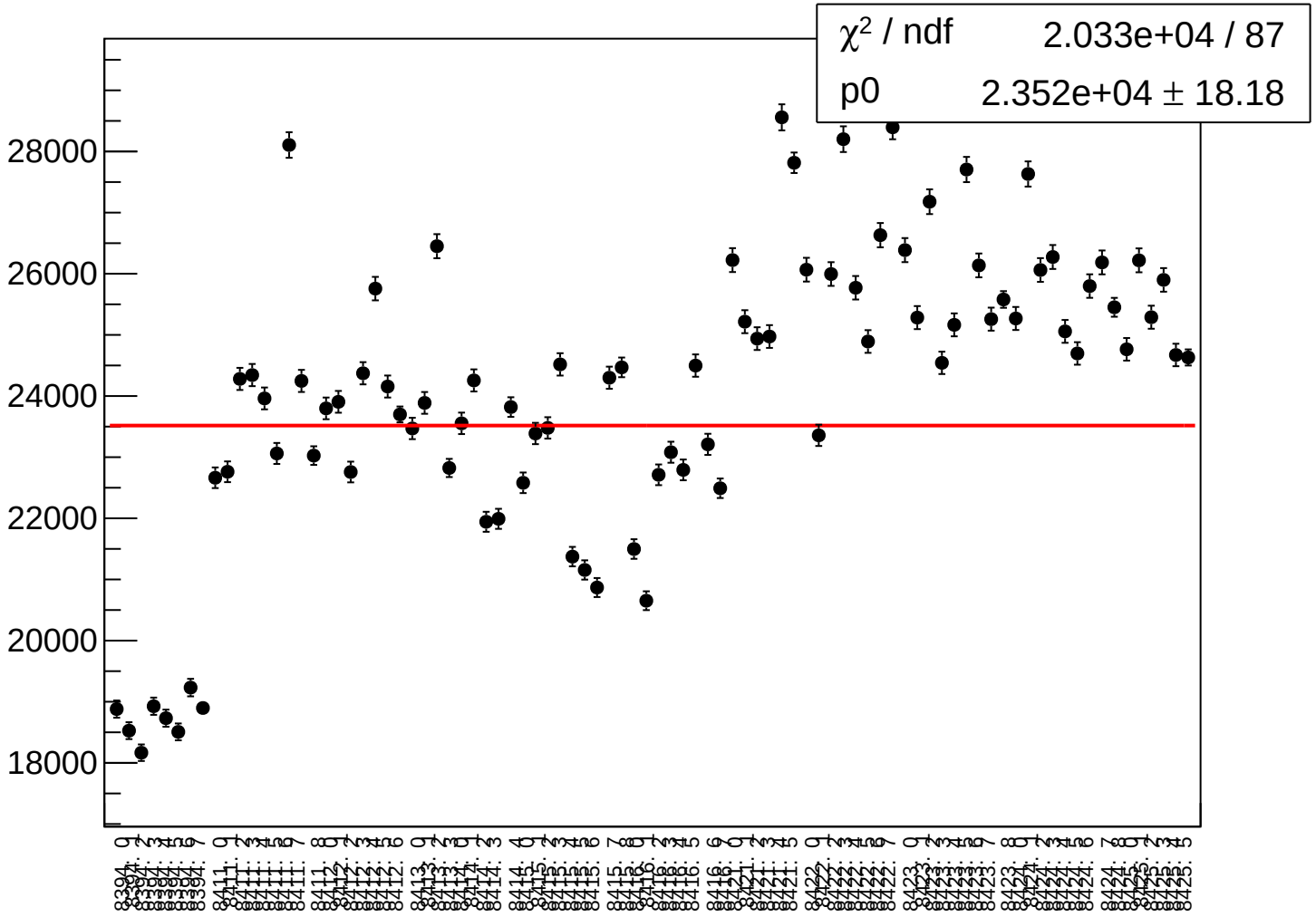

diff_bpm4acY_mean vs run
χ² / ndf 109.3 / 87
p0 30.07 ± 6.608
200
100
0
−100
−200
pull
Entries 88
Mean −68.73
Std Dev 0
2
1
0
−1
−2

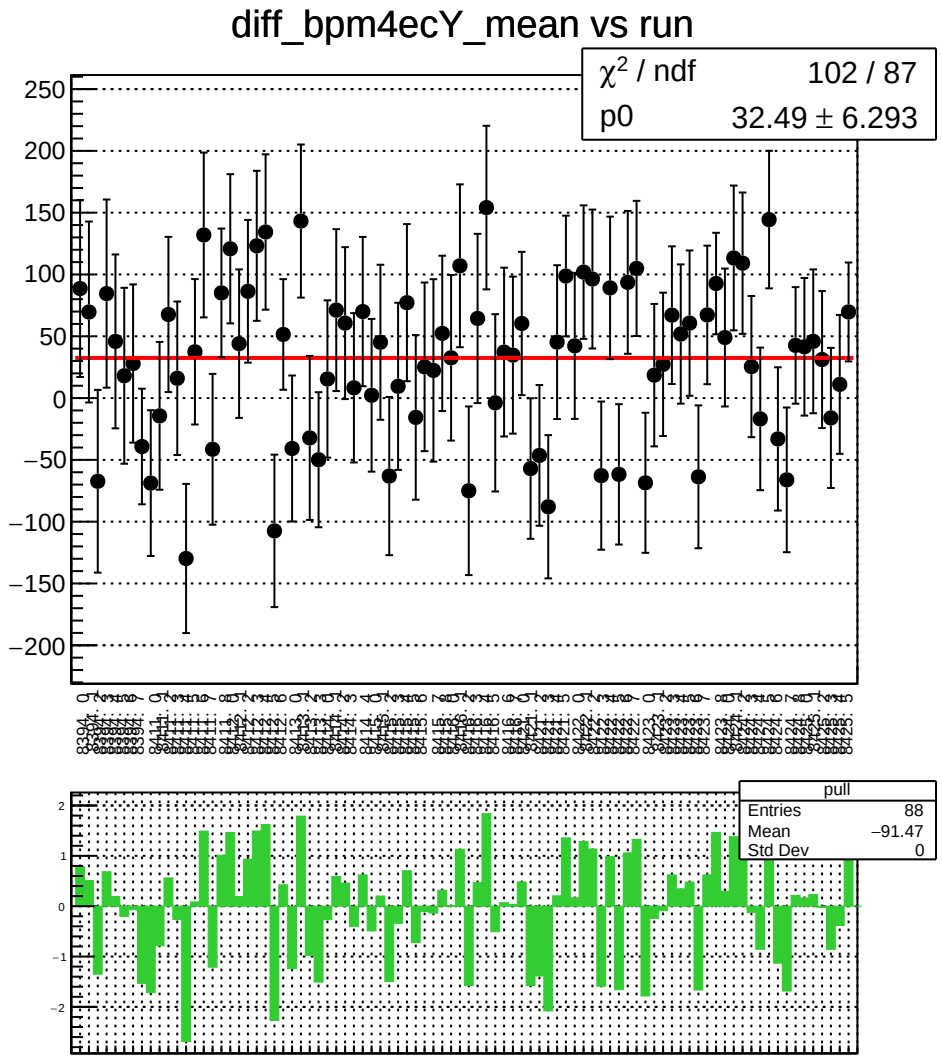

pull1D
Entries 88
Mean −0.01571
Std Dev 1.115
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

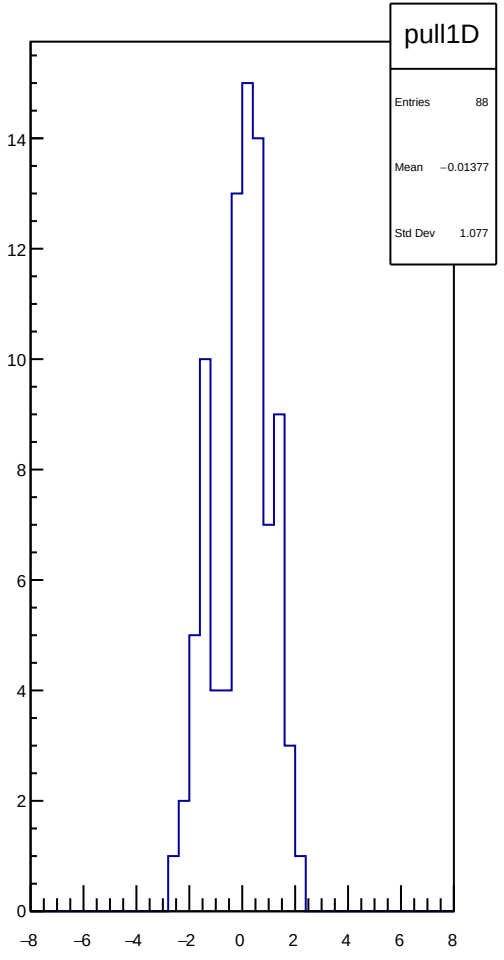

diff_bpm4acY_rms vs run
χ² / ndf 1.002e+04 / 87
p0 6061 ± 4.672
7500
7000
6500
6000
5500

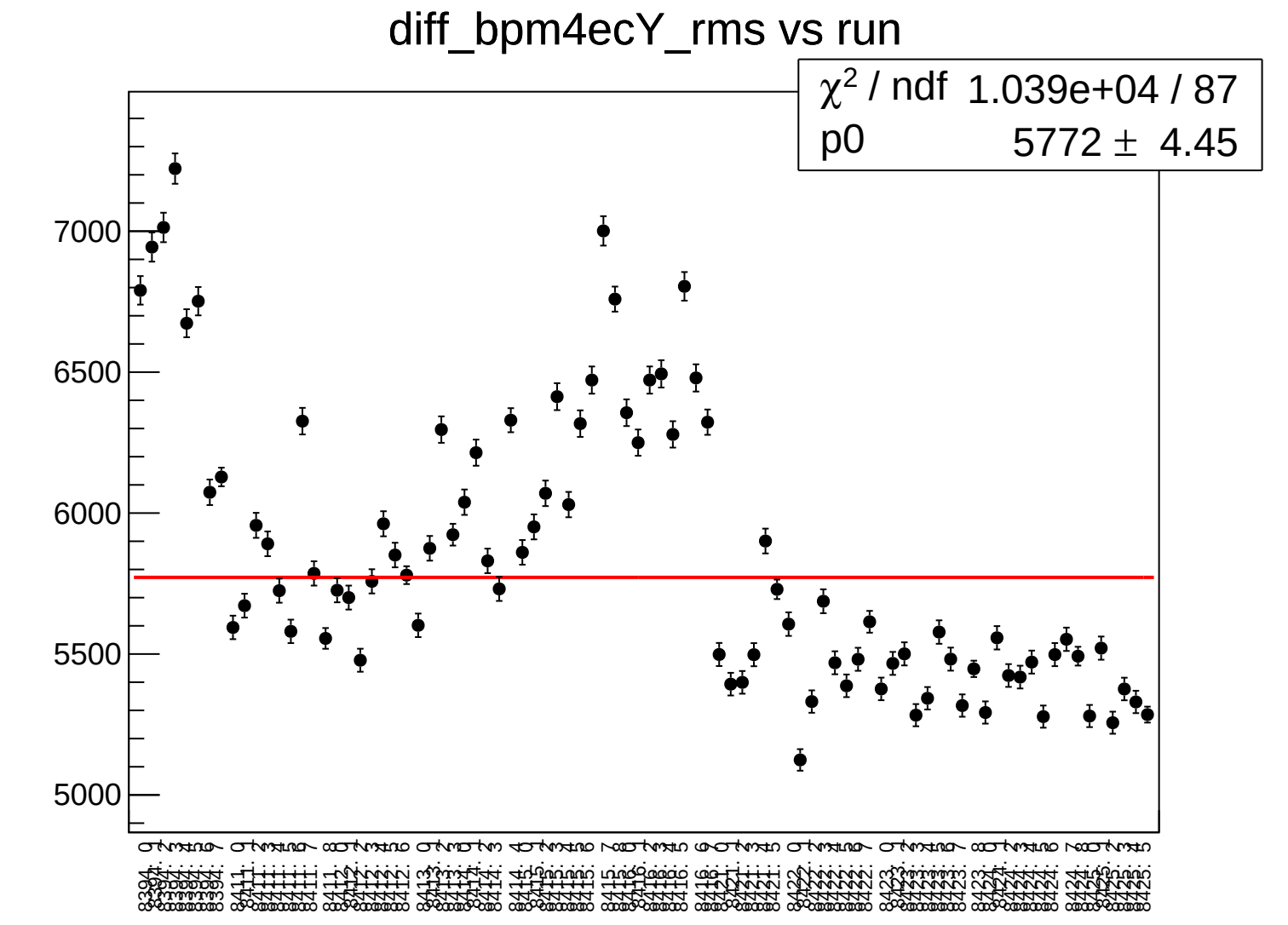

diff_bpm4ecX_mean vs run
χ² / ndf 66.05 / 87
p0 −96.36 ± 25.72
pull
Entries 88
Mean −292.1
Std Dev 0
pull1D
Entries 88
Mean 0.01155
Std Dev 0.8663

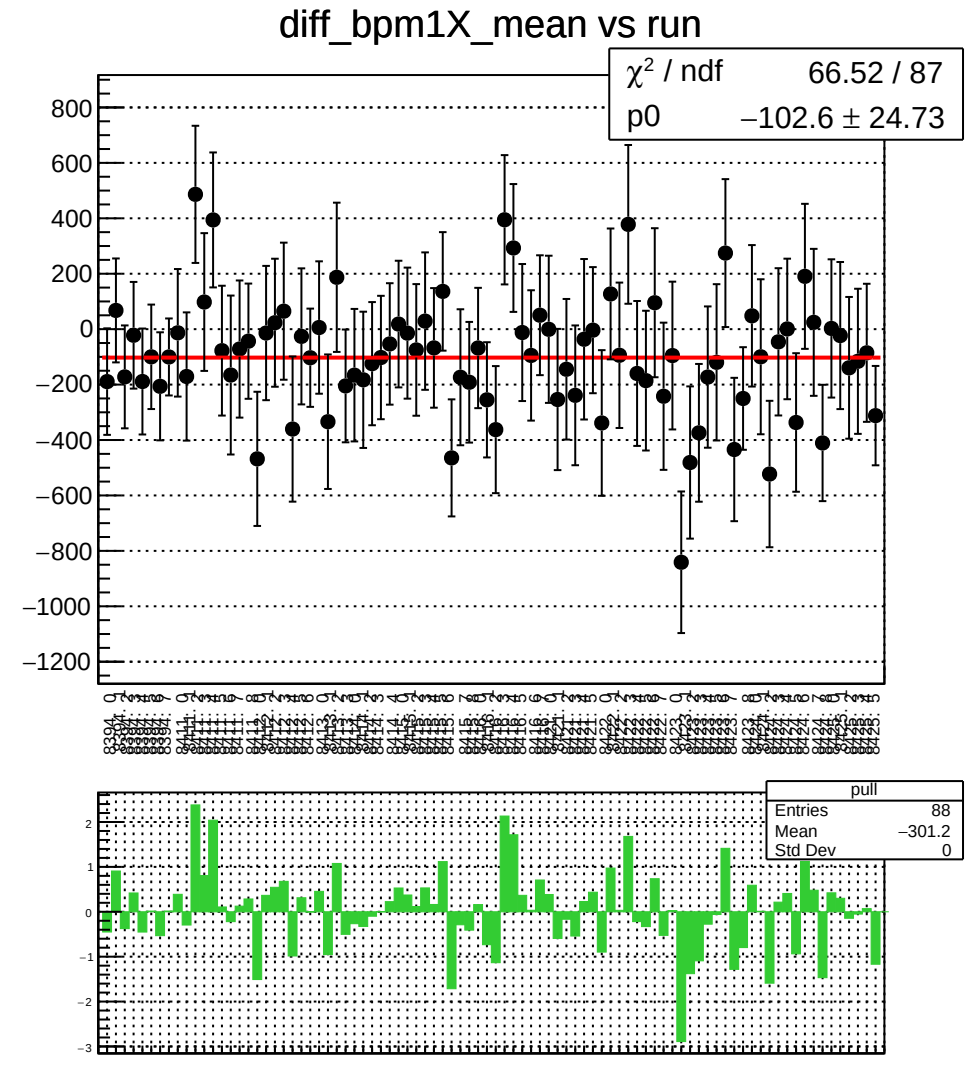
diff_bpm4ecX_rms vs run

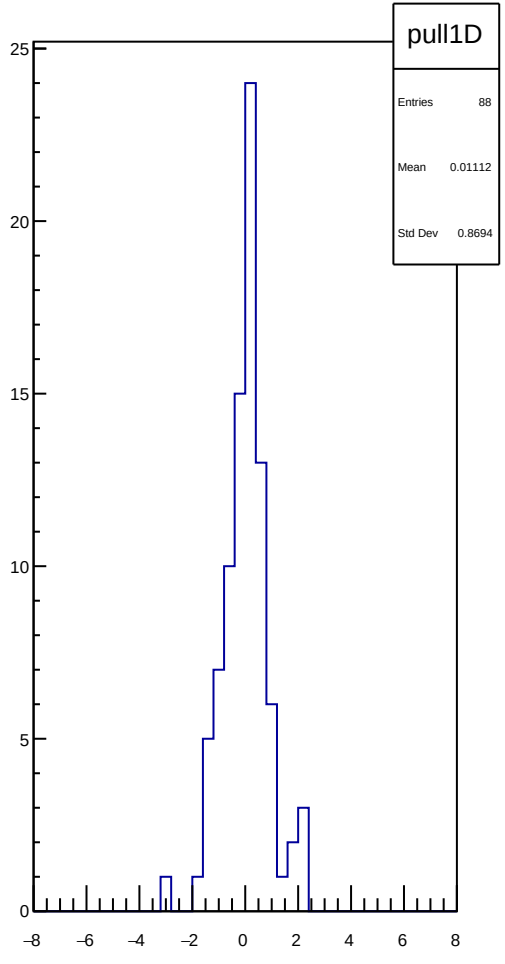


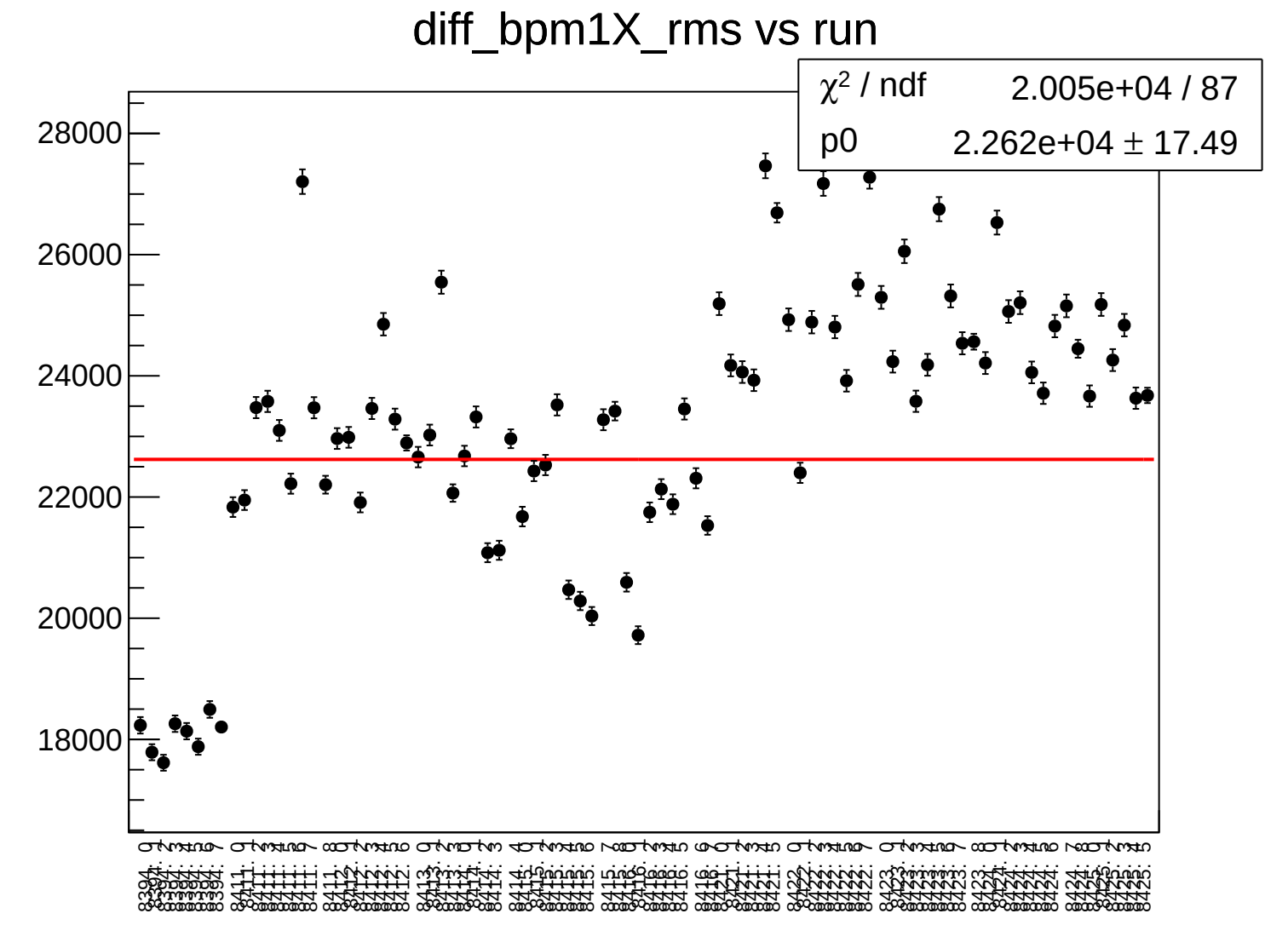

diff_bpm4ecY_mean vs run
χ² / ndf 102 / 87
p0 32.49 ± 6.293
pull
Entries 88
Mean −91.47
Std Dev 0

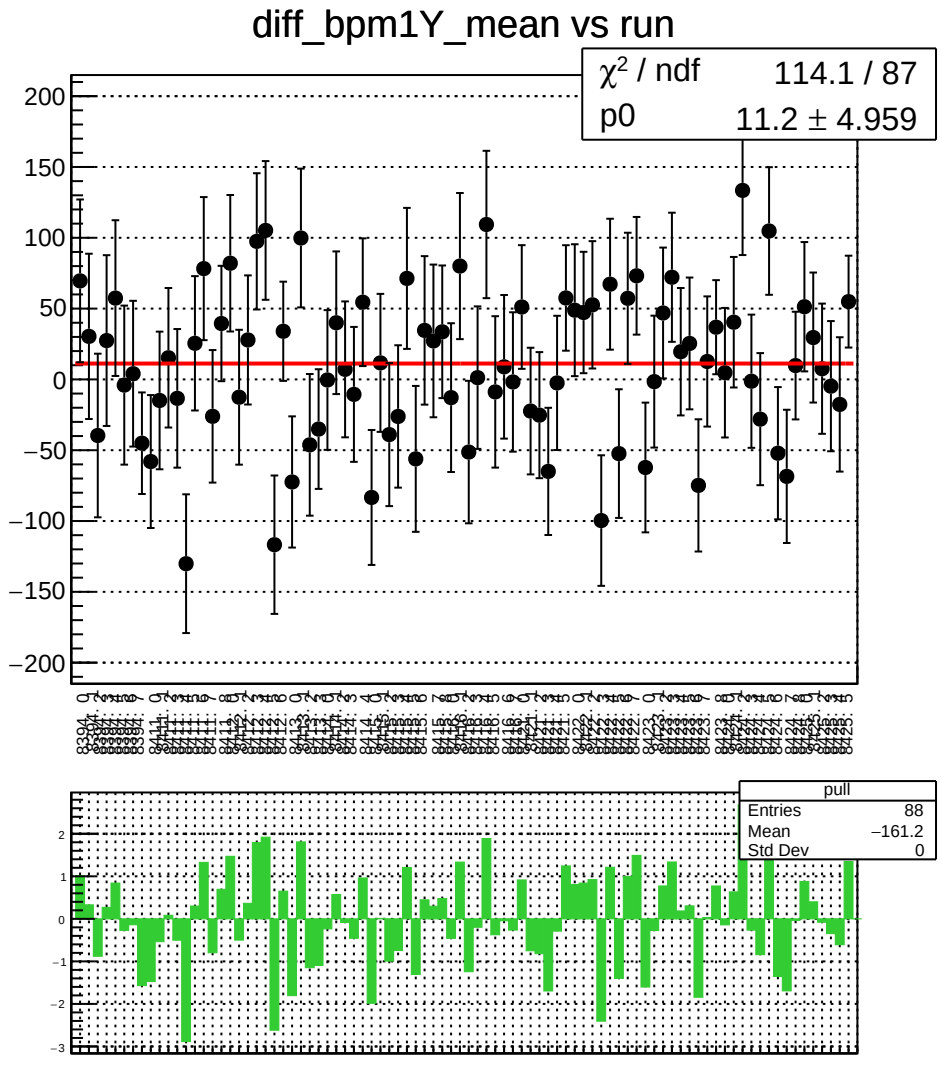

pull1D
Entries 88
Mean −0.01377
Std Dev 1.077

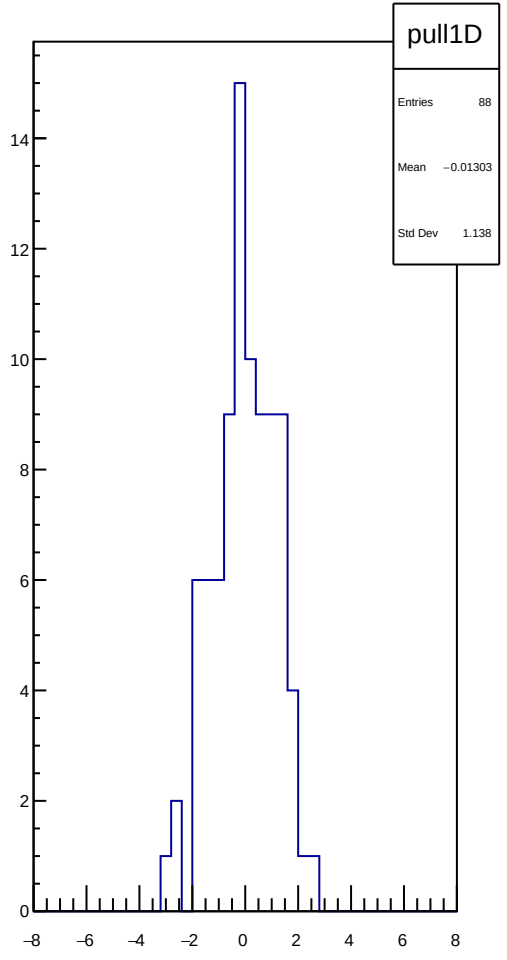

diff_bpm4ecY_rms vs run
χ² / ndf 1.039e+04 / 87
p0 5772 ± 4.45
7000
6500
6000
5500
5000

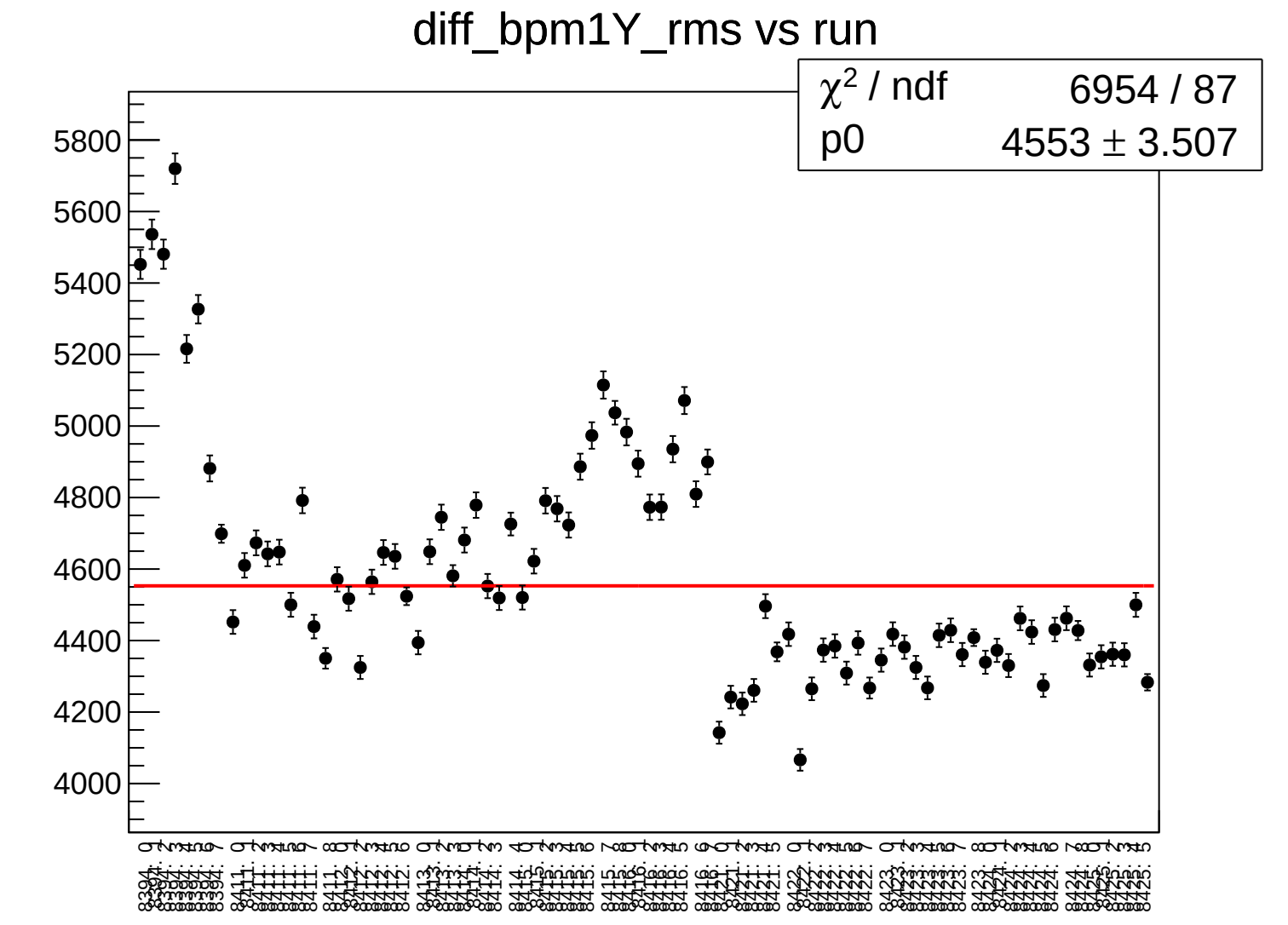

diff_bpm1X_mean vs run
χ² / ndf 66.52 / 87
p0 −102.6 ± 24.73
pull
Entries 88
Mean −301.2
Std Dev 0

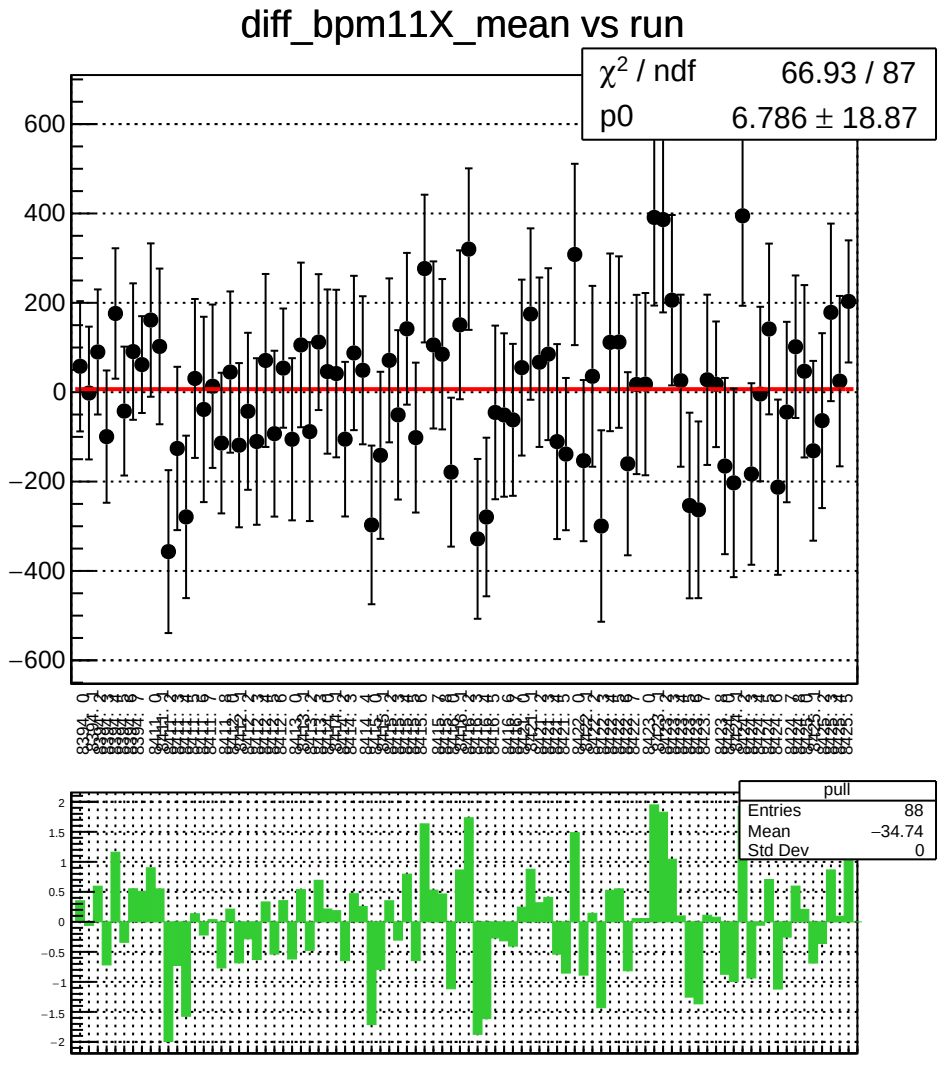

pull1D
Entries 88
Mean 0.01112
Std Dev 0.8694

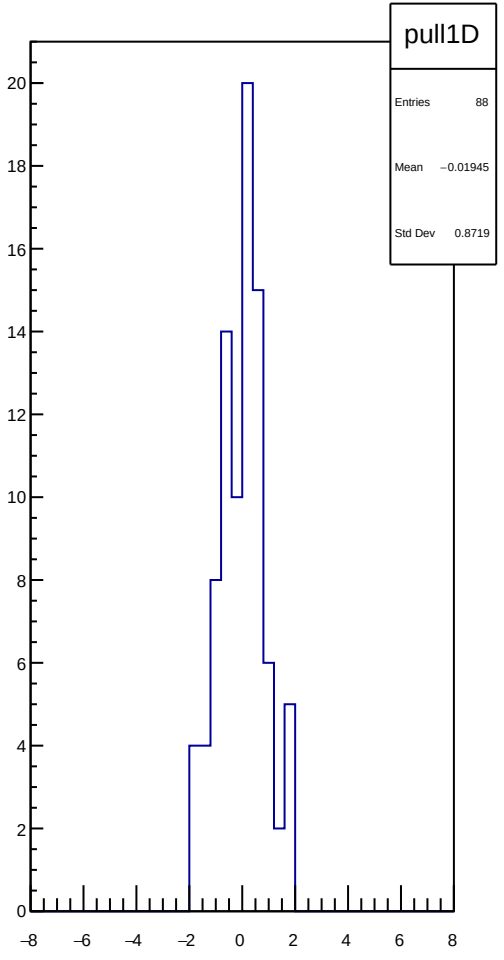

diff_bpm1X_rms vs run
χ² / ndf 2.005e+04 / 87
p0 2.262e+04 ± 17.49
28000
26000
24000
22000
20000
18000

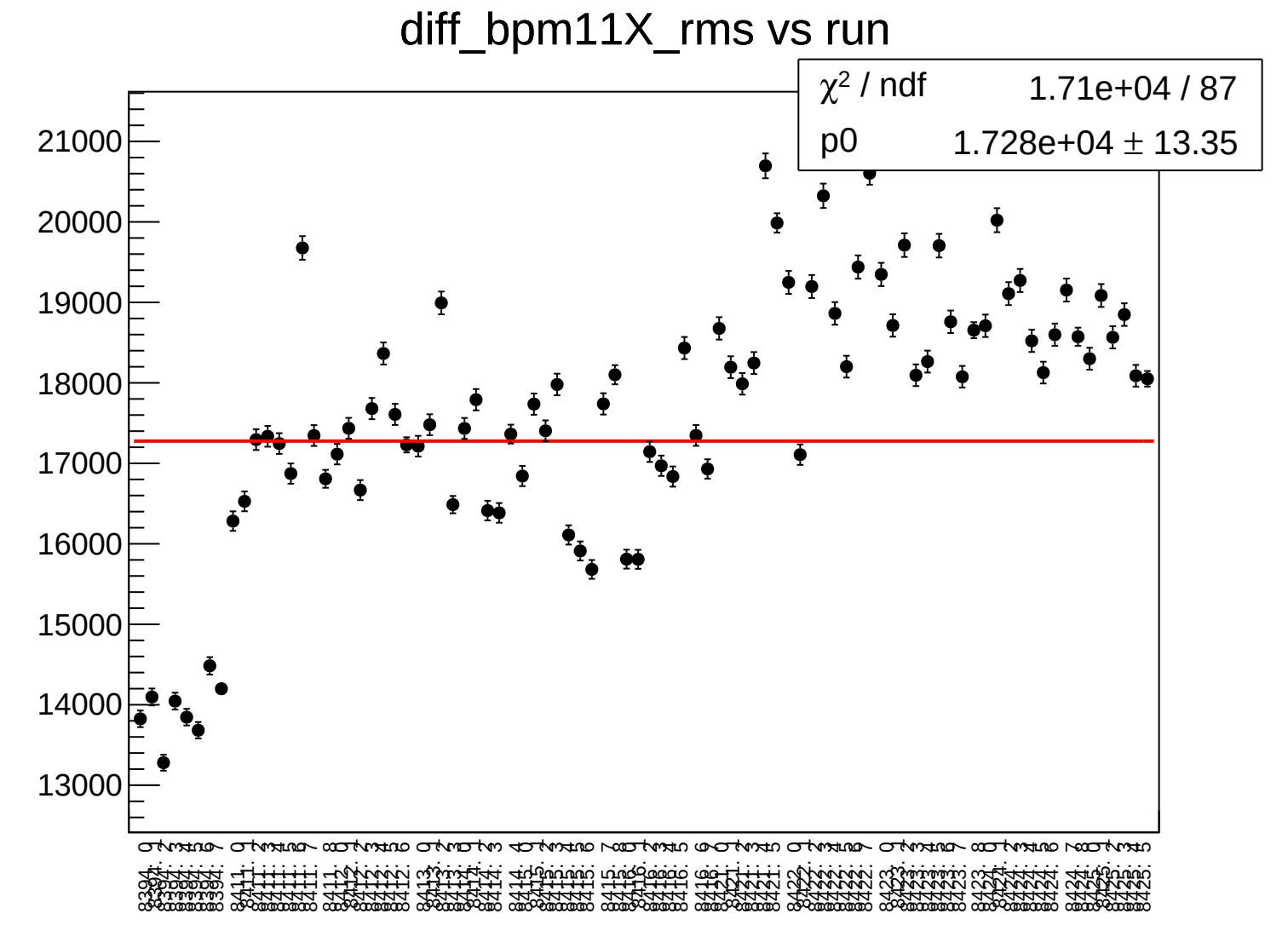

diff_bpm1Y_mean vs run
χ² / ndf 114.1 / 87
p0 11.2 ± 4.959
pull
Entries 88
Mean −161.2
Std Dev 0

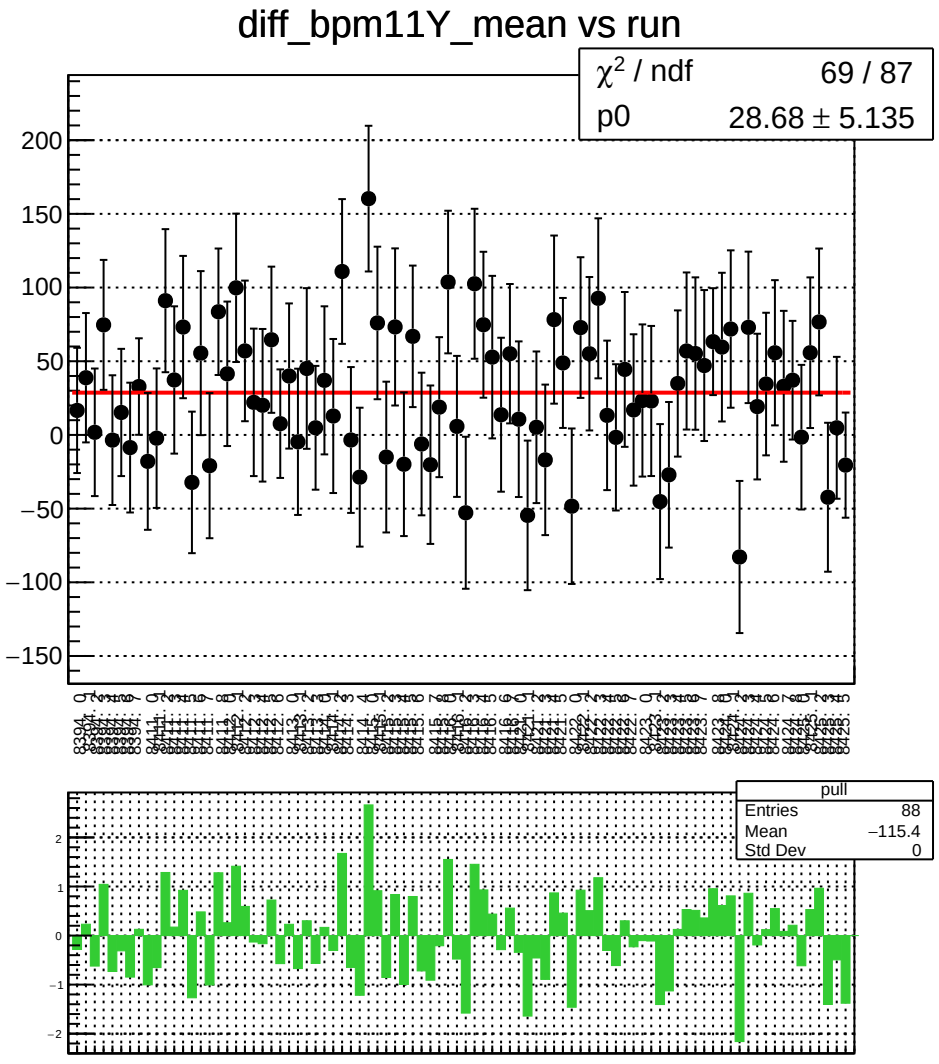

pull1D
Entries 88
Mean −0.01303
Std Dev 1.138

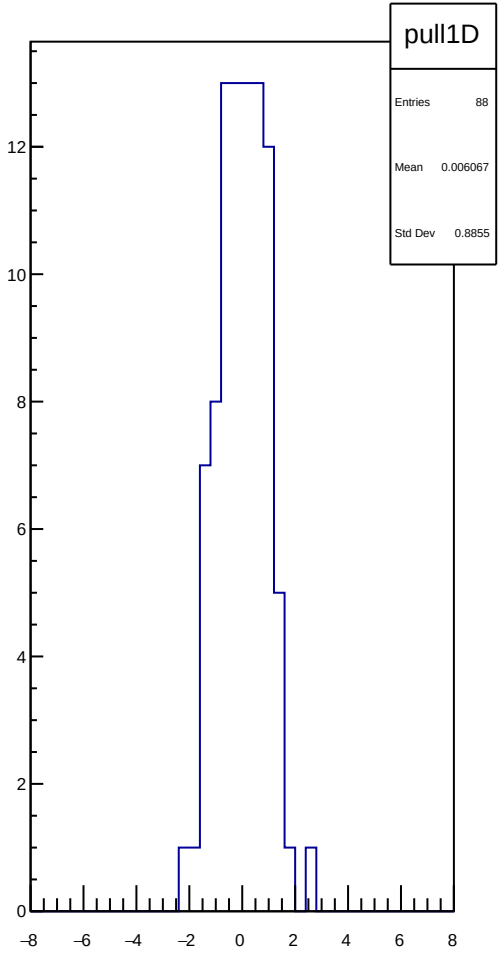

diff_bpm1Y_rms vs run
χ^2 / ndf 6954 / 87
p0 4553 ± 3.507
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

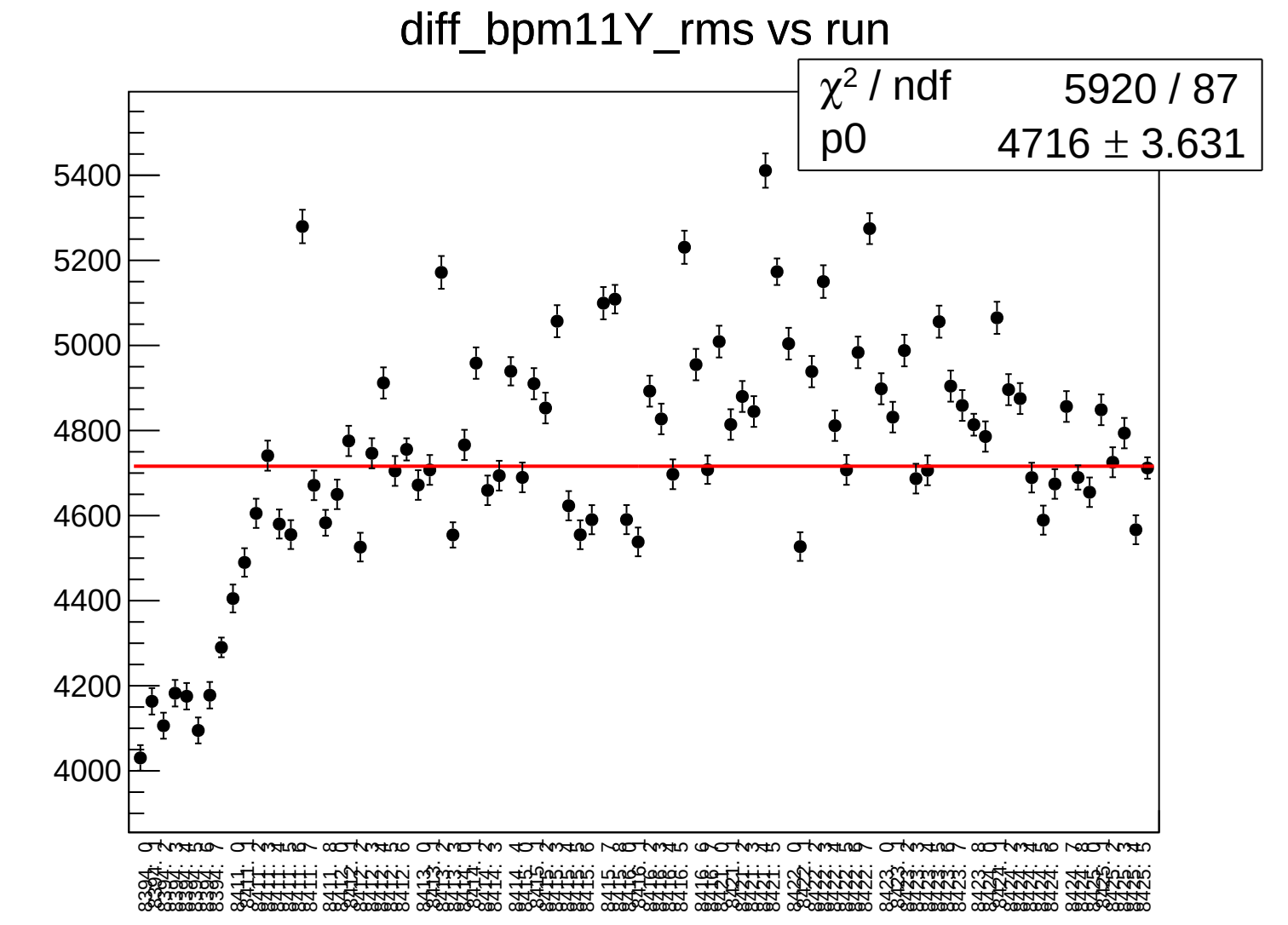

diff_bpm11X_mean vs run
χ^2 / ndf 66.93 / 87
p0 6.786 ± 18.87
pull
Entries 88
Mean −34.74
Std Dev 0

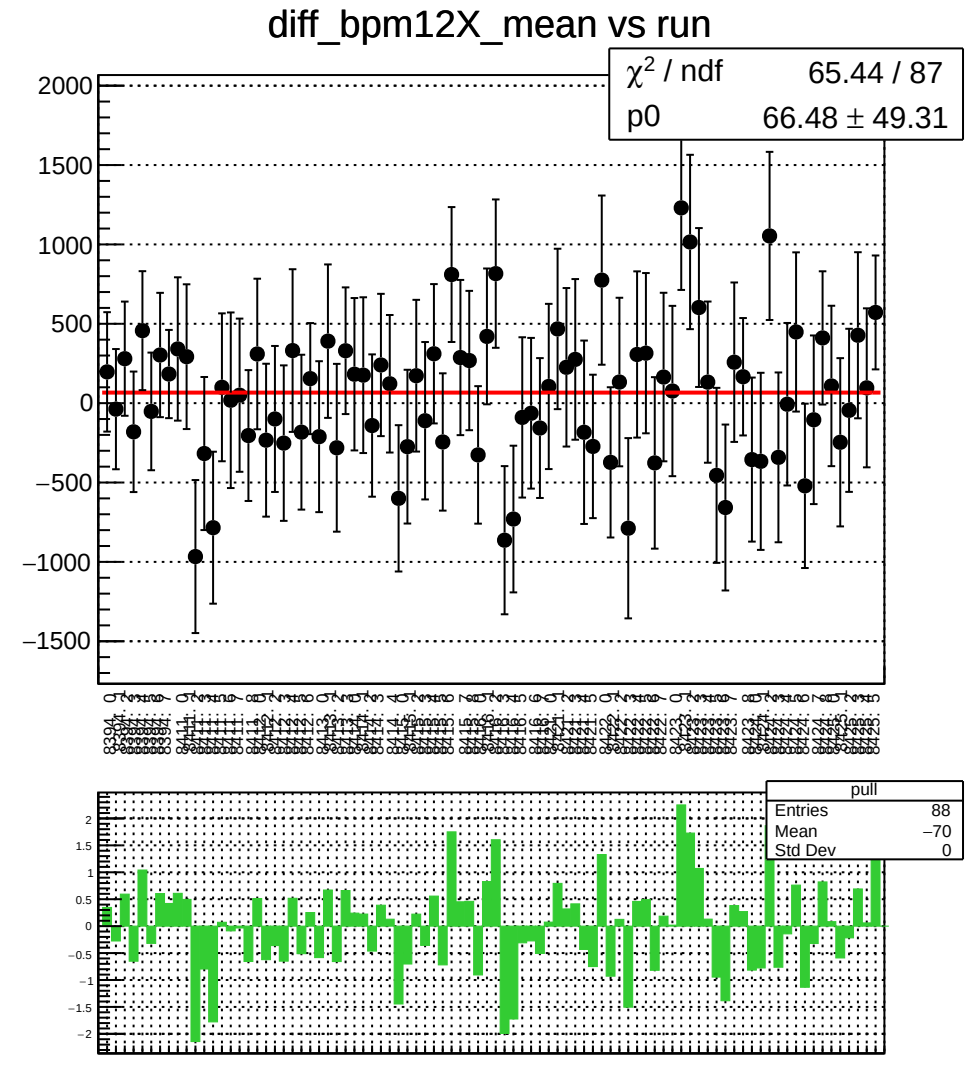

pull1D
Entries 88
Mean −0.01945
Std Dev 0.8719

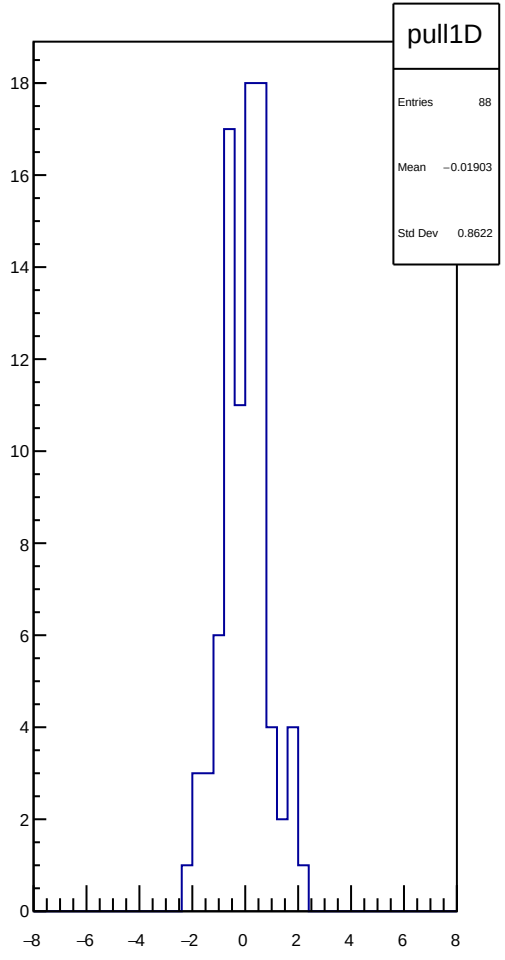

diff_bpm11X_rms vs run
χ² / ndf 1.71e+04 / 87
p0 1.728e+04 ± 13.35
21000
20000
19000
18000
17000
16000
15000
14000
13000

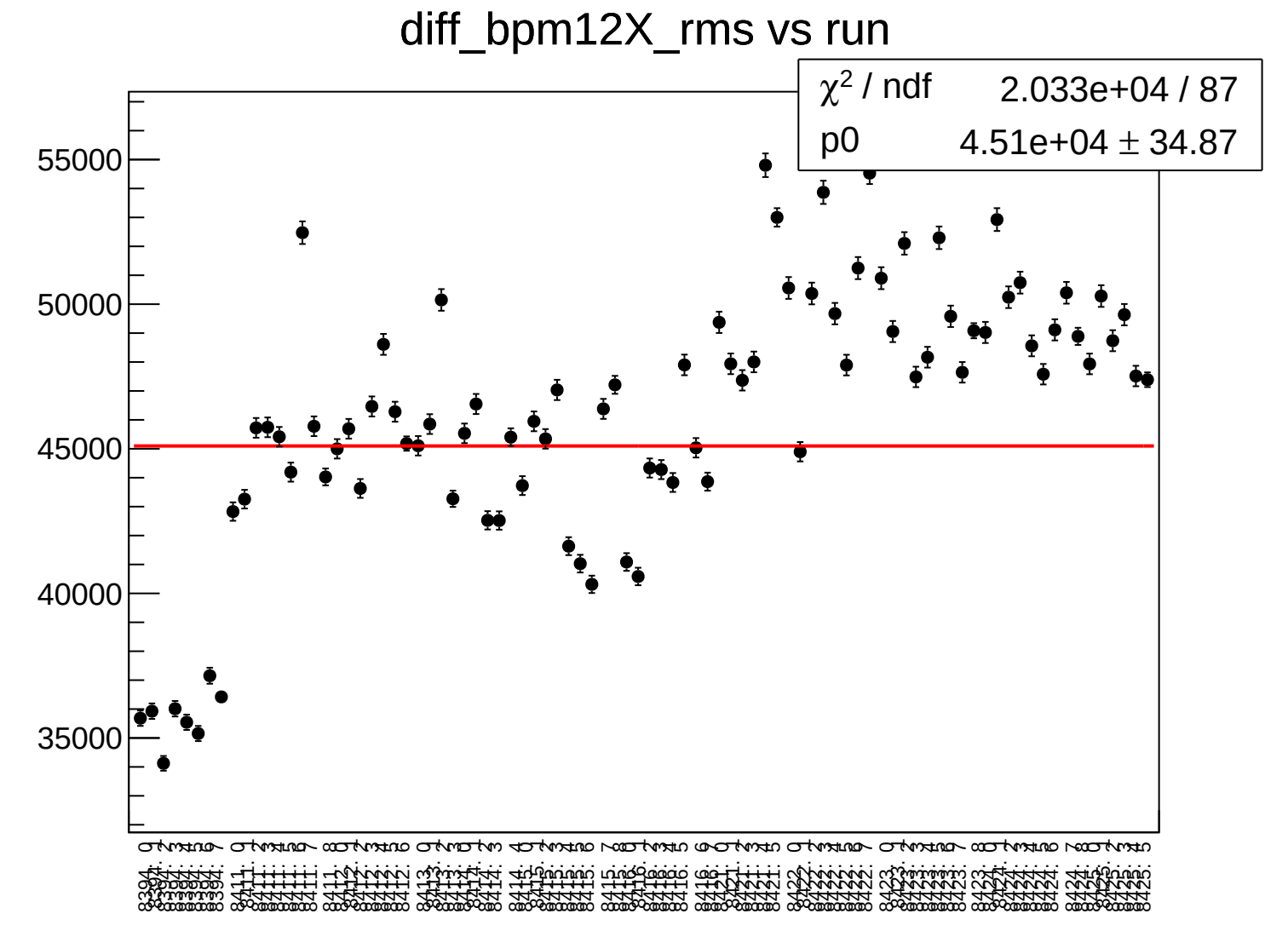

diff_bpm11Y_mean vs run
χ² / ndf 69 / 87
p0 28.68 ± 5.135
200
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −115.4
Std Dev 0
2
1
0
−1
−2

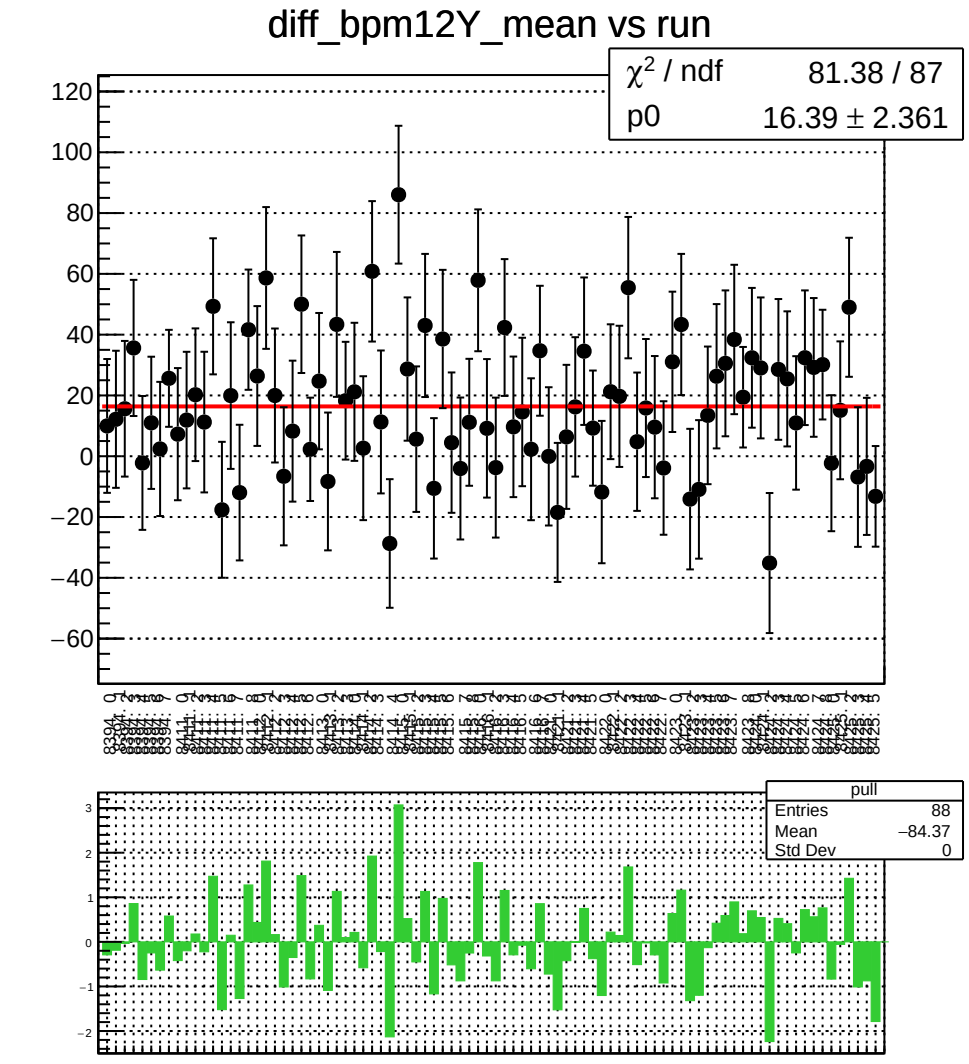

pull1D
Entries 88
Mean 0.006067
Std Dev 0.8855
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

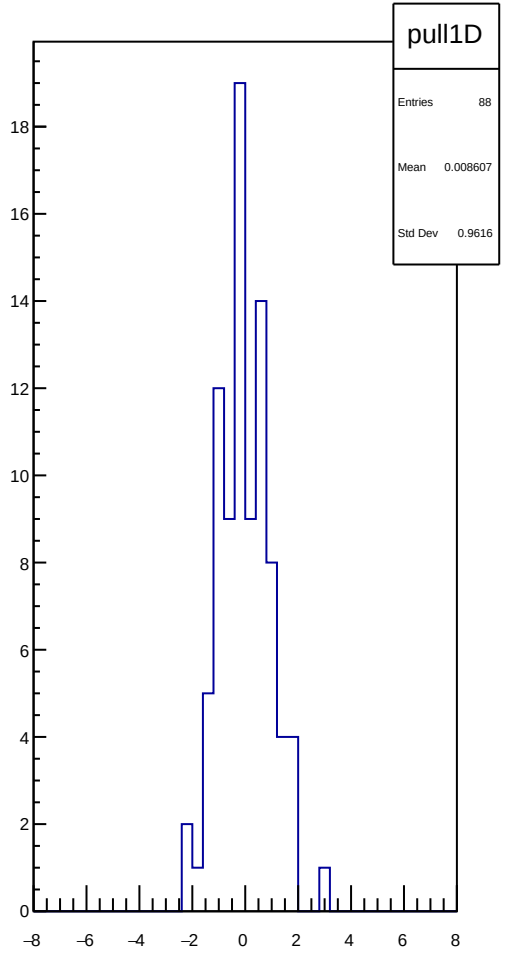

diff_bpm11Y_rms vs run
χ² / ndf 5920 / 87
p0 4716 ± 3.631
5400
5200
5000
4800
4600
4400
4200
4000

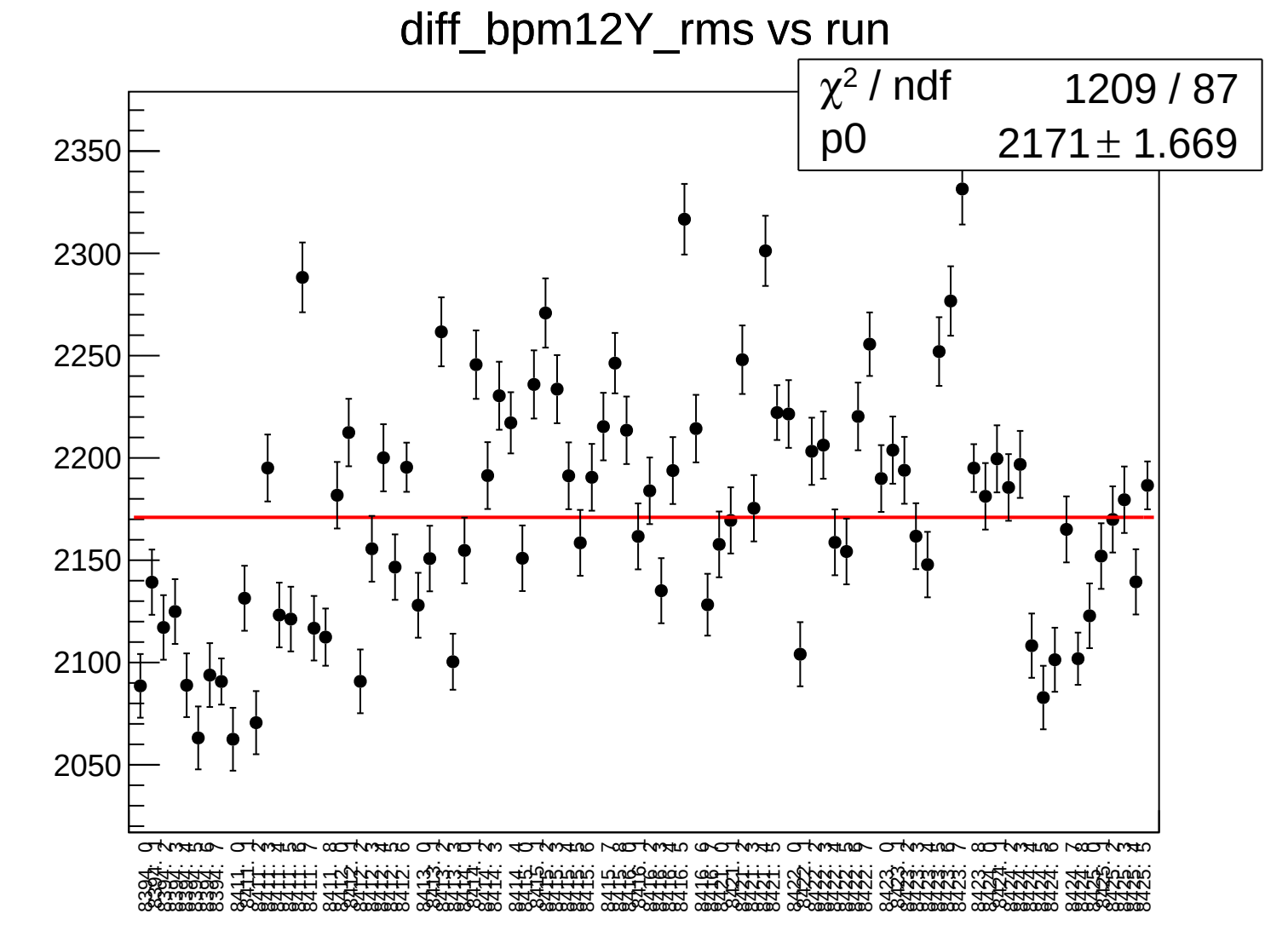

diff_bpm12X_mean vs run
χ² / ndf 65.44 / 87
p0 66.48 ± 49.31
2000
1500
1000
500
0
−500
−1000
−1500
pull
Entries 88
Mean −70
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

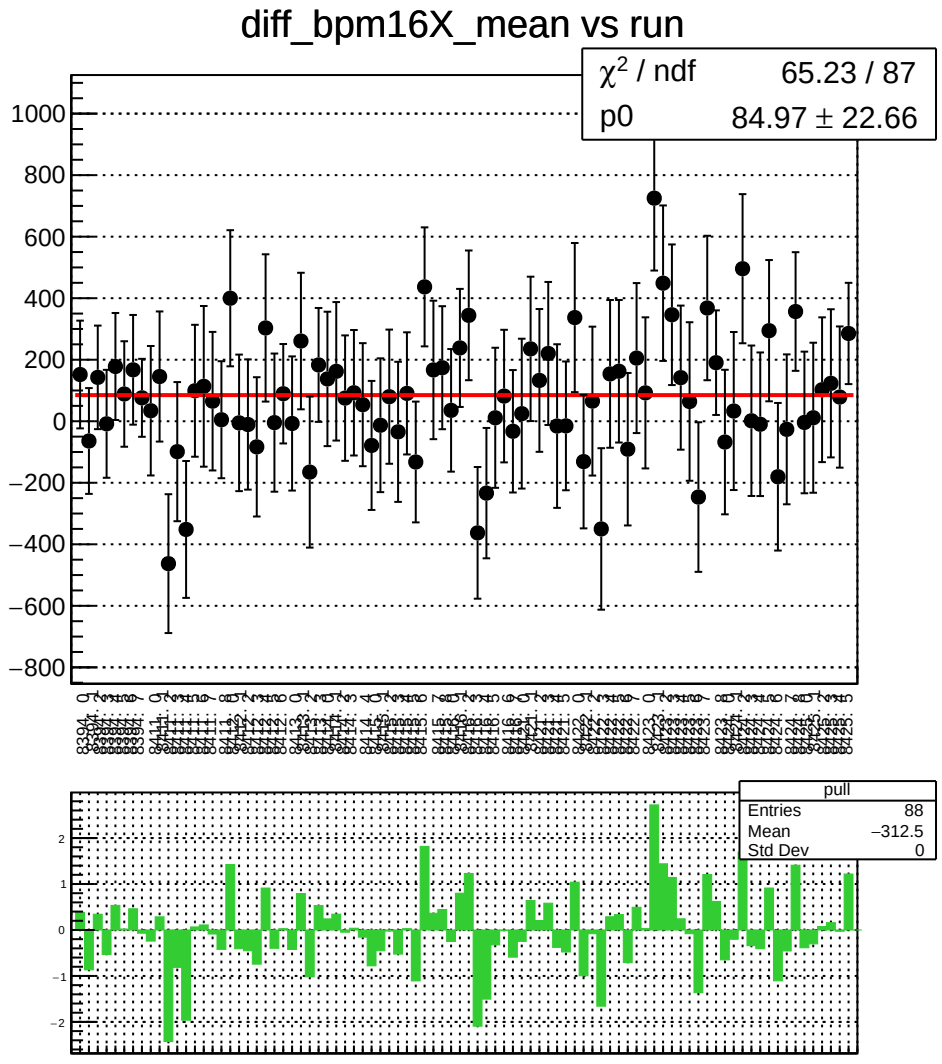

pull1D
Entries 88
Mean −0.01903
Std Dev 0.8622
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

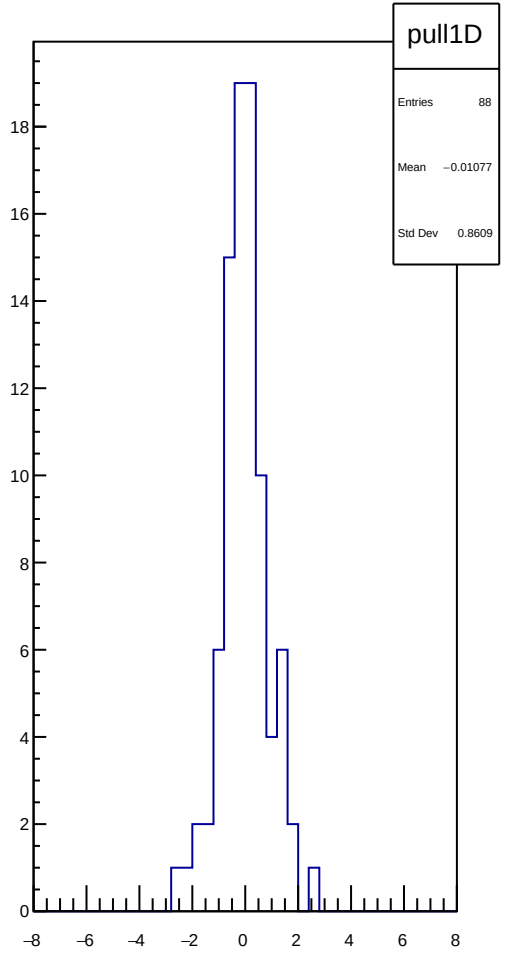

diff_bpm12X_rms vs run
χ² / ndf 2.033e+04 / 87
p0 4.51e+04 ± 34.87
55000
50000
45000
40000
35000

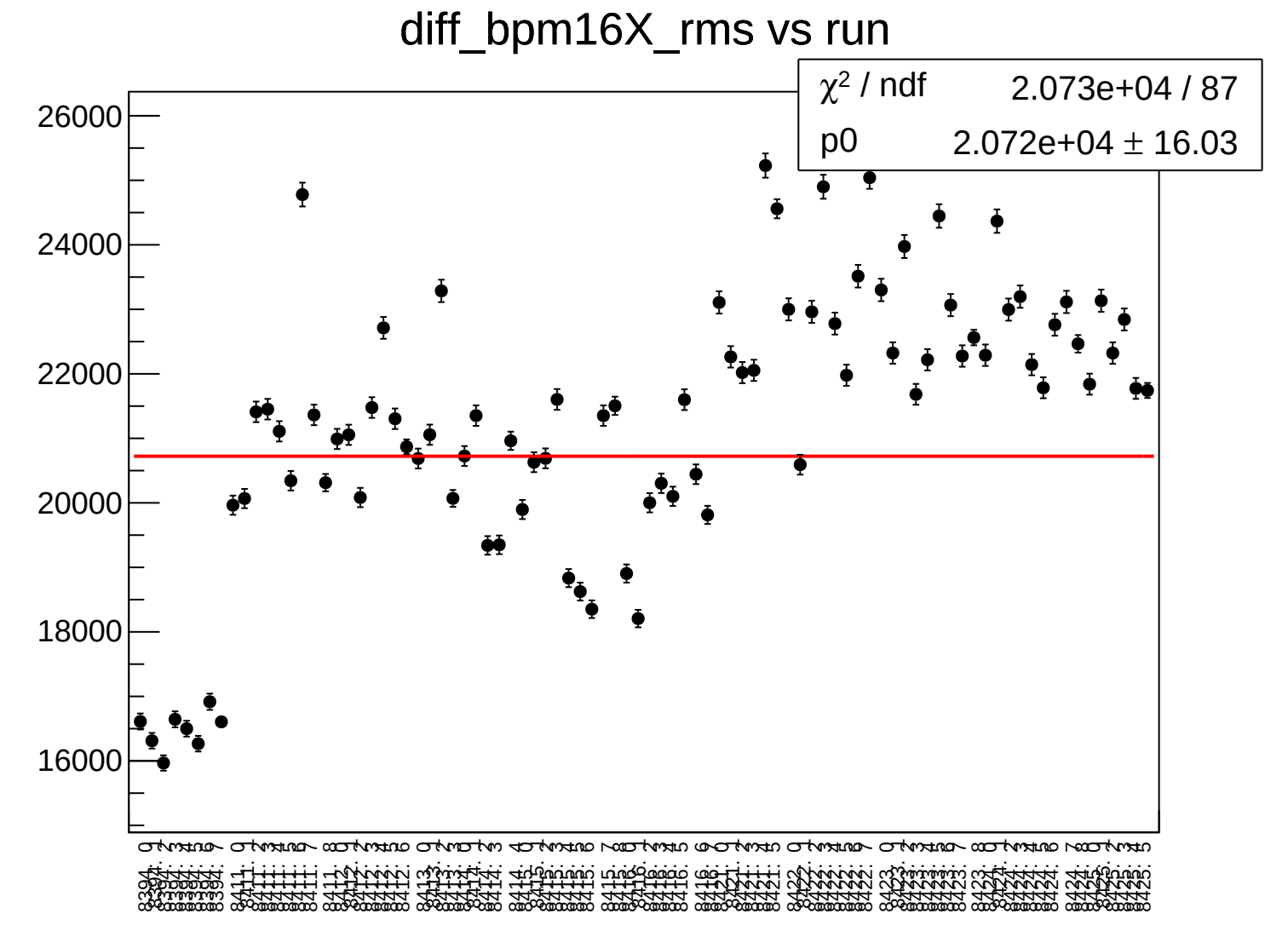

diff_bpm12Y_mean vs run
χ² / ndf 81.38 / 87
p0 16.39 ± 2.361
pull
Entries 88
Mean −84.37
Std Dev 0

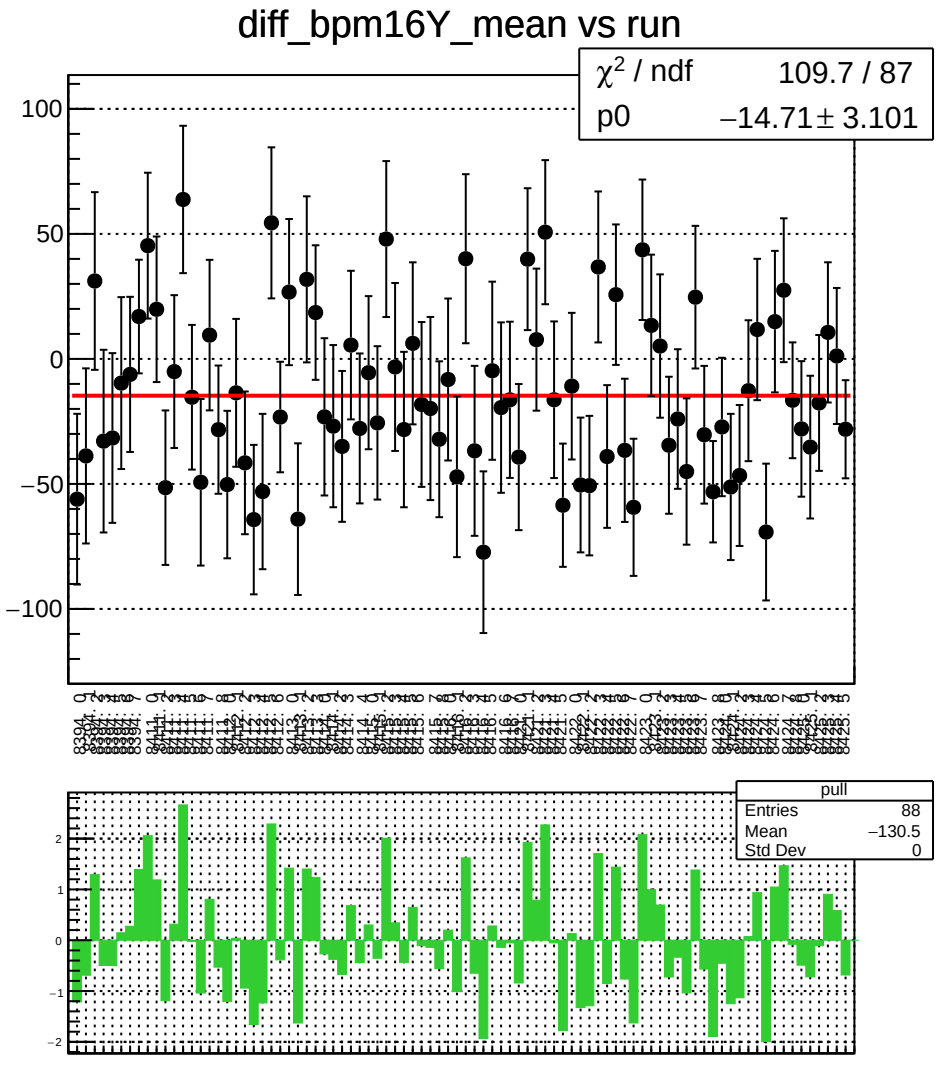

pull1D
Entries 88
Mean 0.008607
Std Dev 0.9616

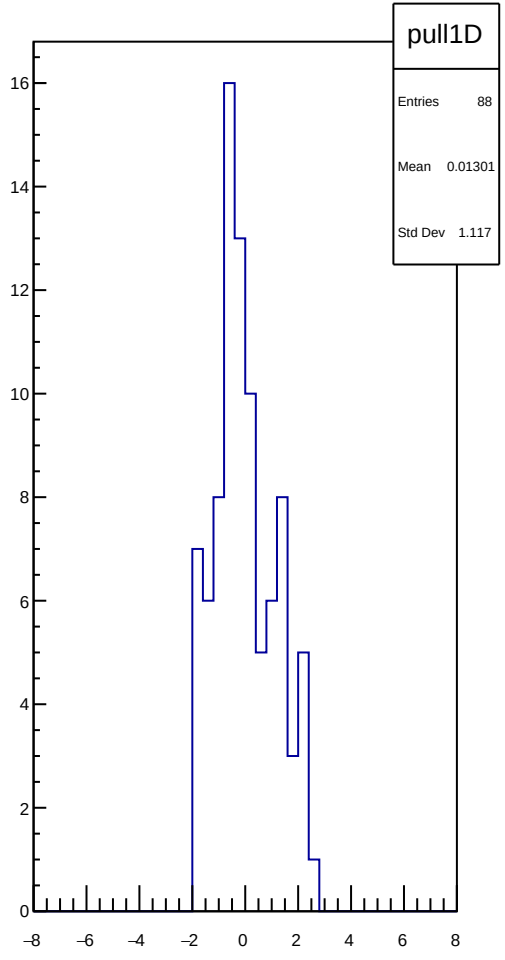

diff_bpm12Y_rms vs run
χ² / ndf 1209 / 87
p0 2171 ± 1.669
2350
2300
2250
2200
2150
2100
2050


diff_bpm16X_mean vs run
χ² / ndf 65.23 / 87
p0 84.97 ± 22.66
pull
Entries 88
Mean −312.5
Std Dev 0

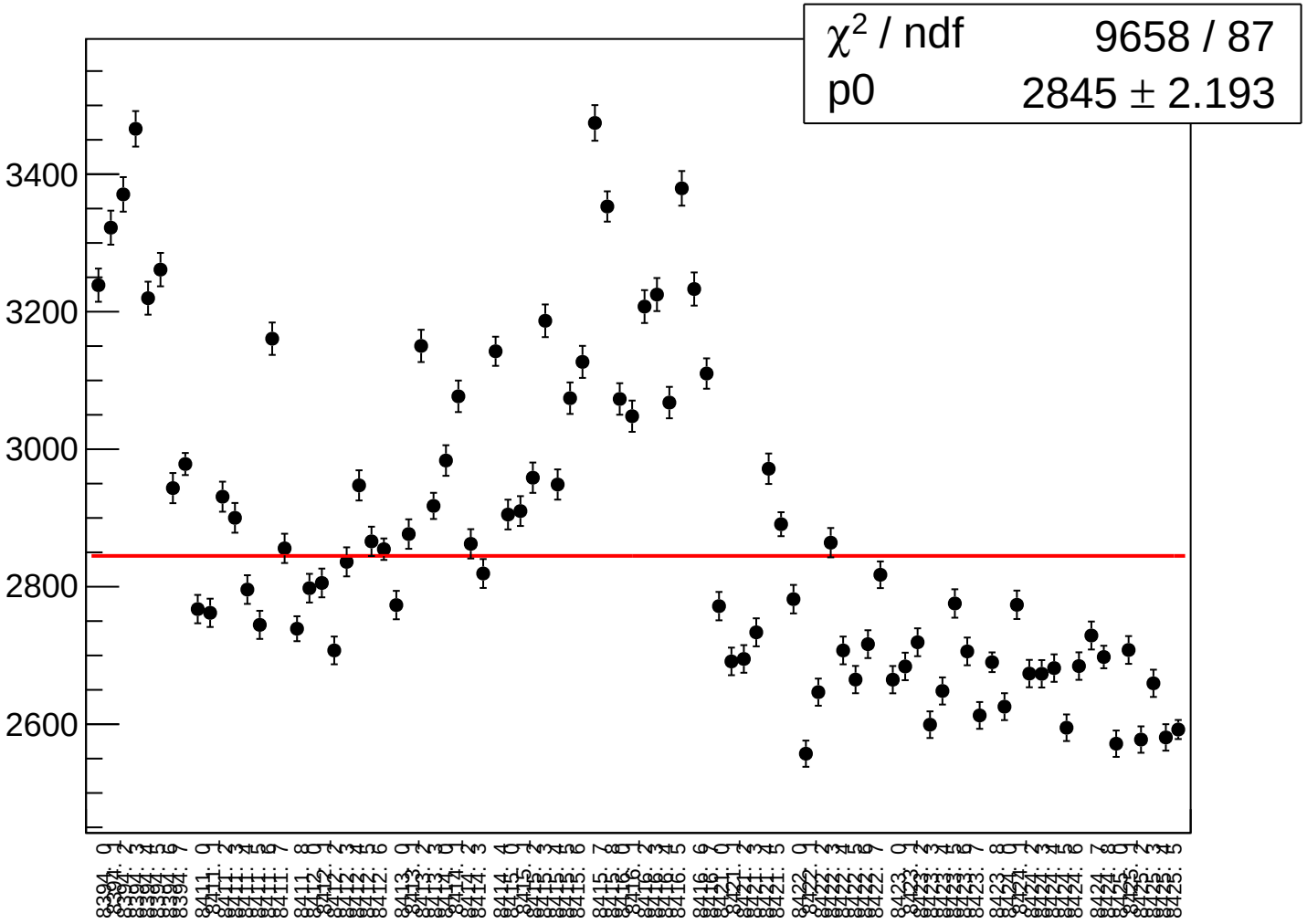

pull1D
Entries 88
Mean −0.01077
Std Dev 0.8609

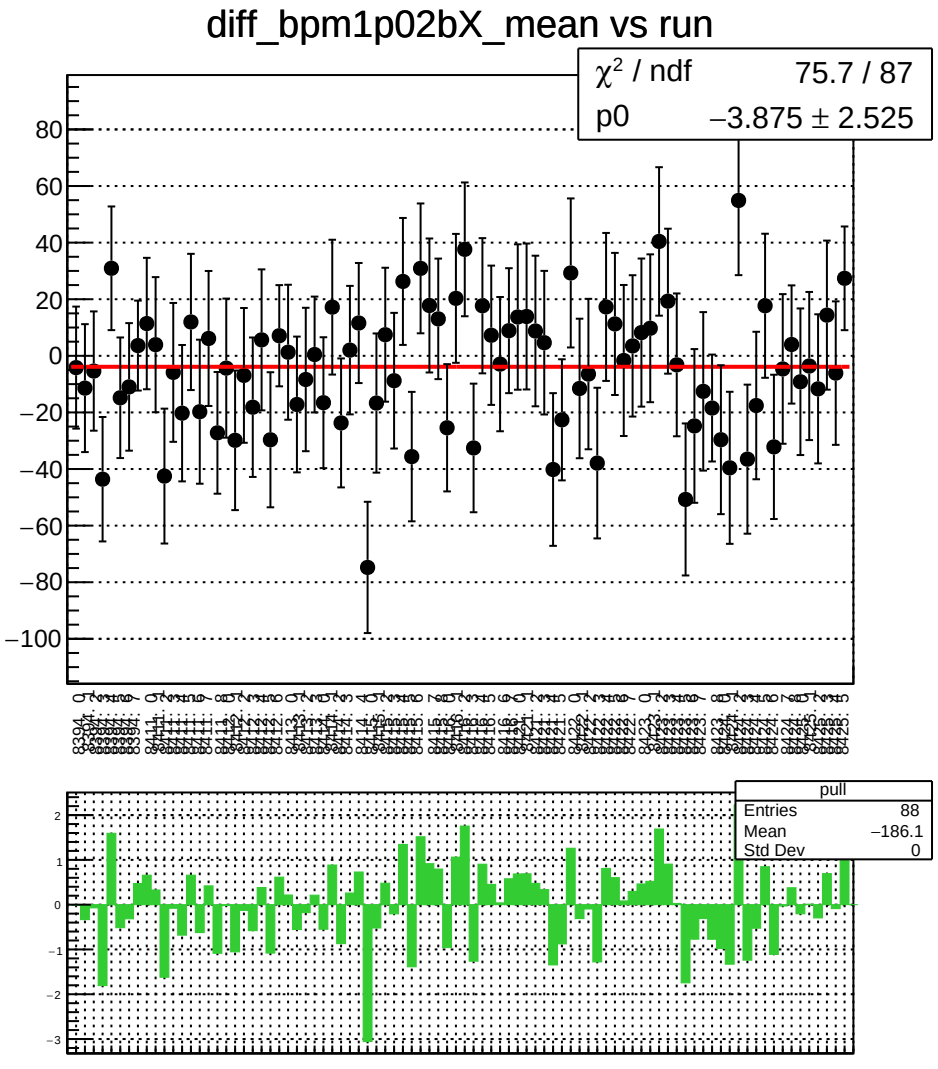

diff_bpm16X_rms vs run
χ² / ndf 2.073e+04 / 87
p0 2.072e+04 ± 16.03
26000
24000
22000
20000
18000
16000

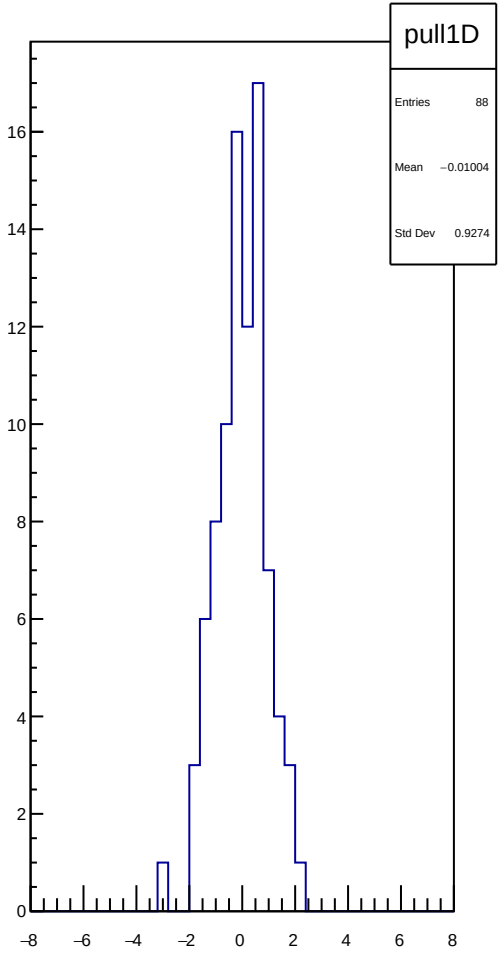

diff_bpm16Y_mean vs run
χ² / ndf 109.7 / 87
p0 −14.71 ± 3.101
100
50
0
−50
−100
pull
Entries 88
Mean −130.5
Std Dev 0
2
1
0
−1
−2

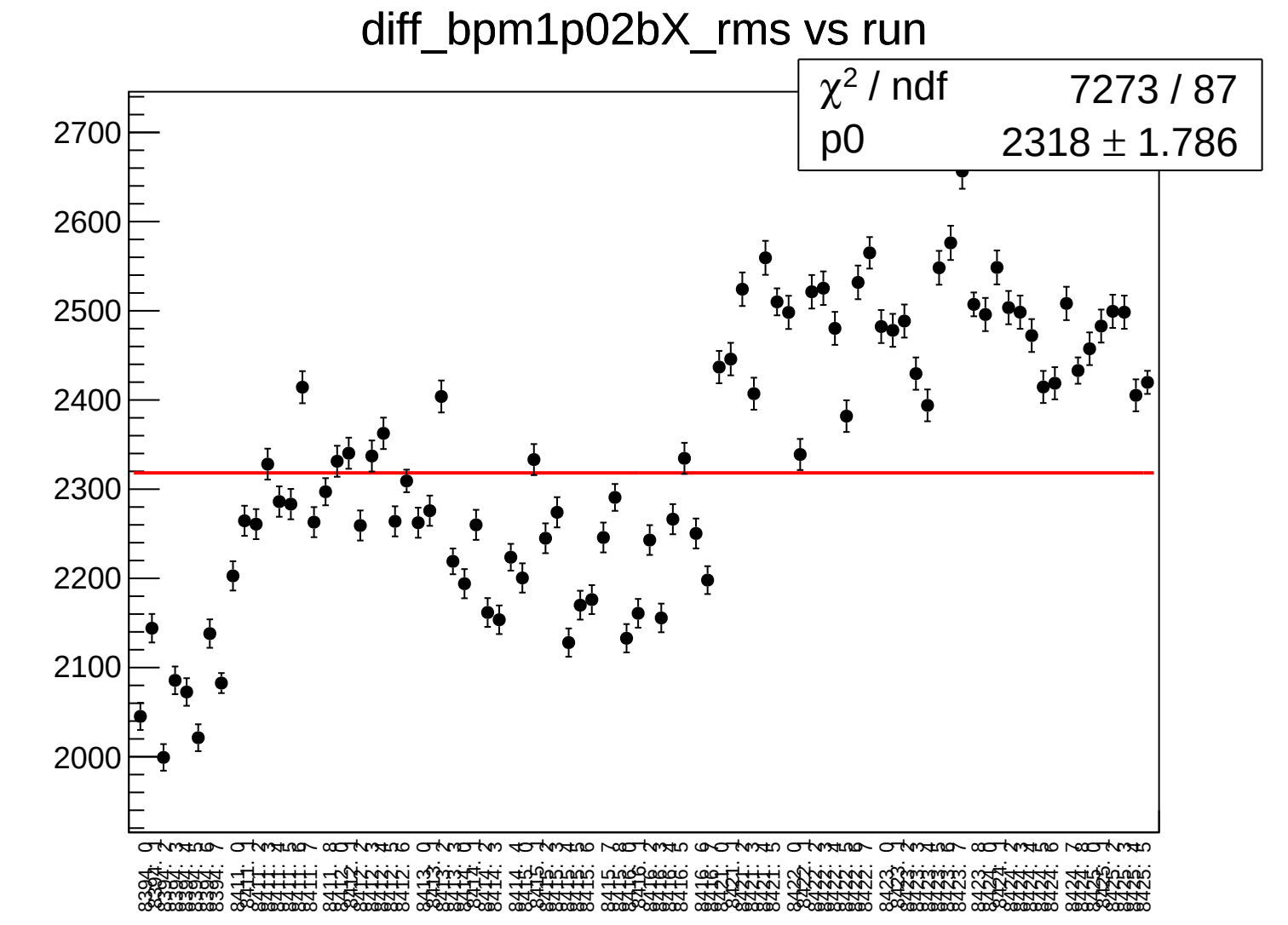

pull1D
Entries 88
Mean 0.01301
Std Dev 1.117
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

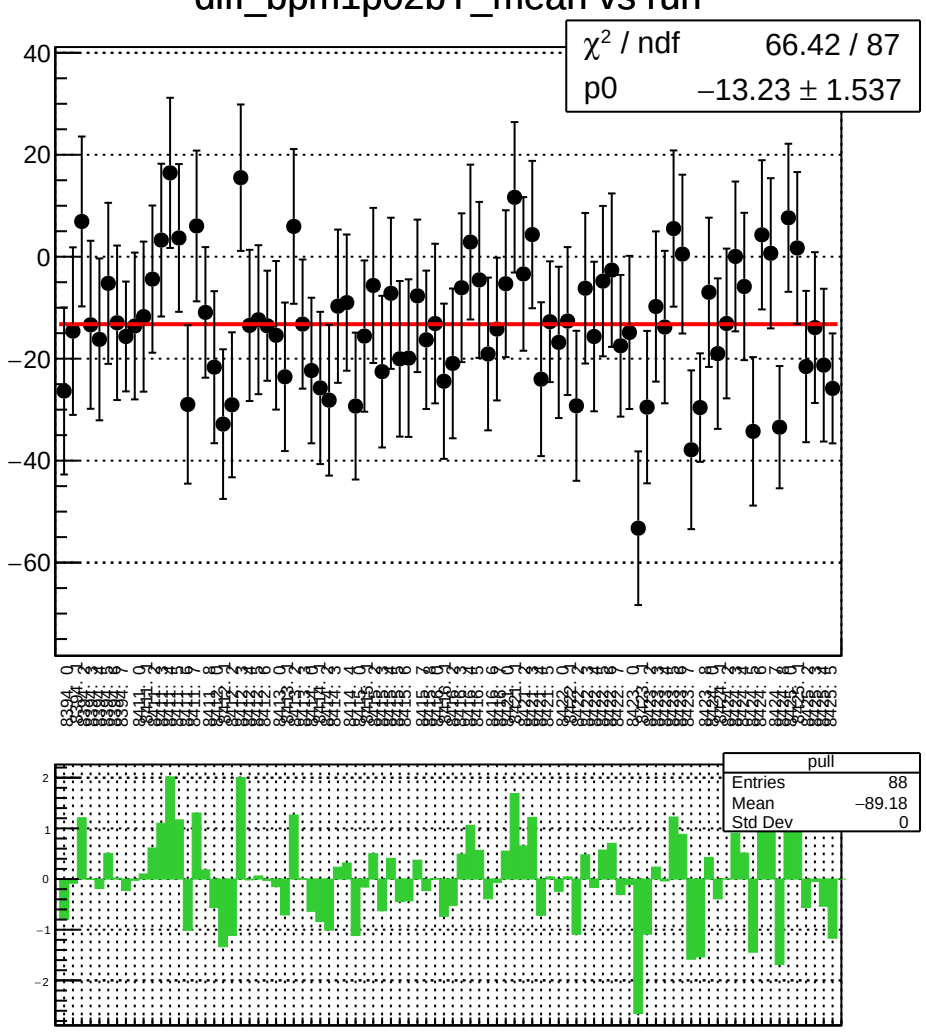
diff_bpm16Y_rms vs run

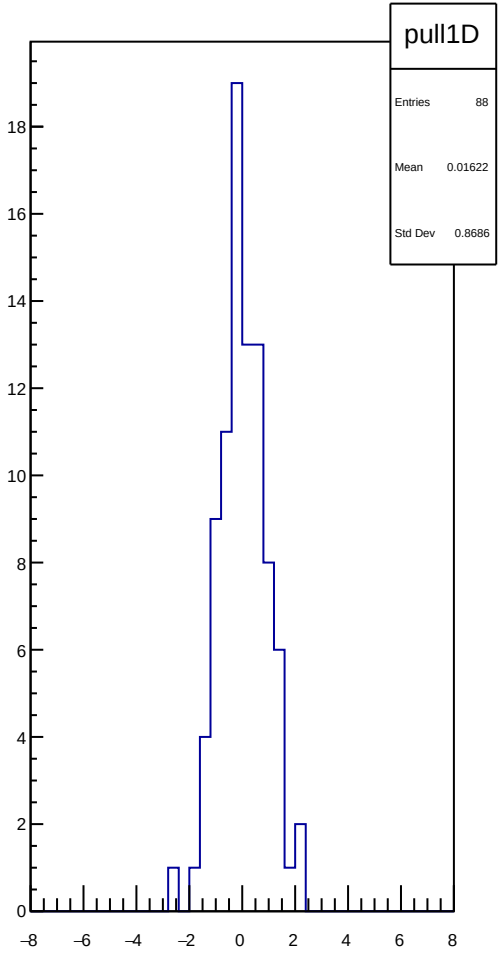


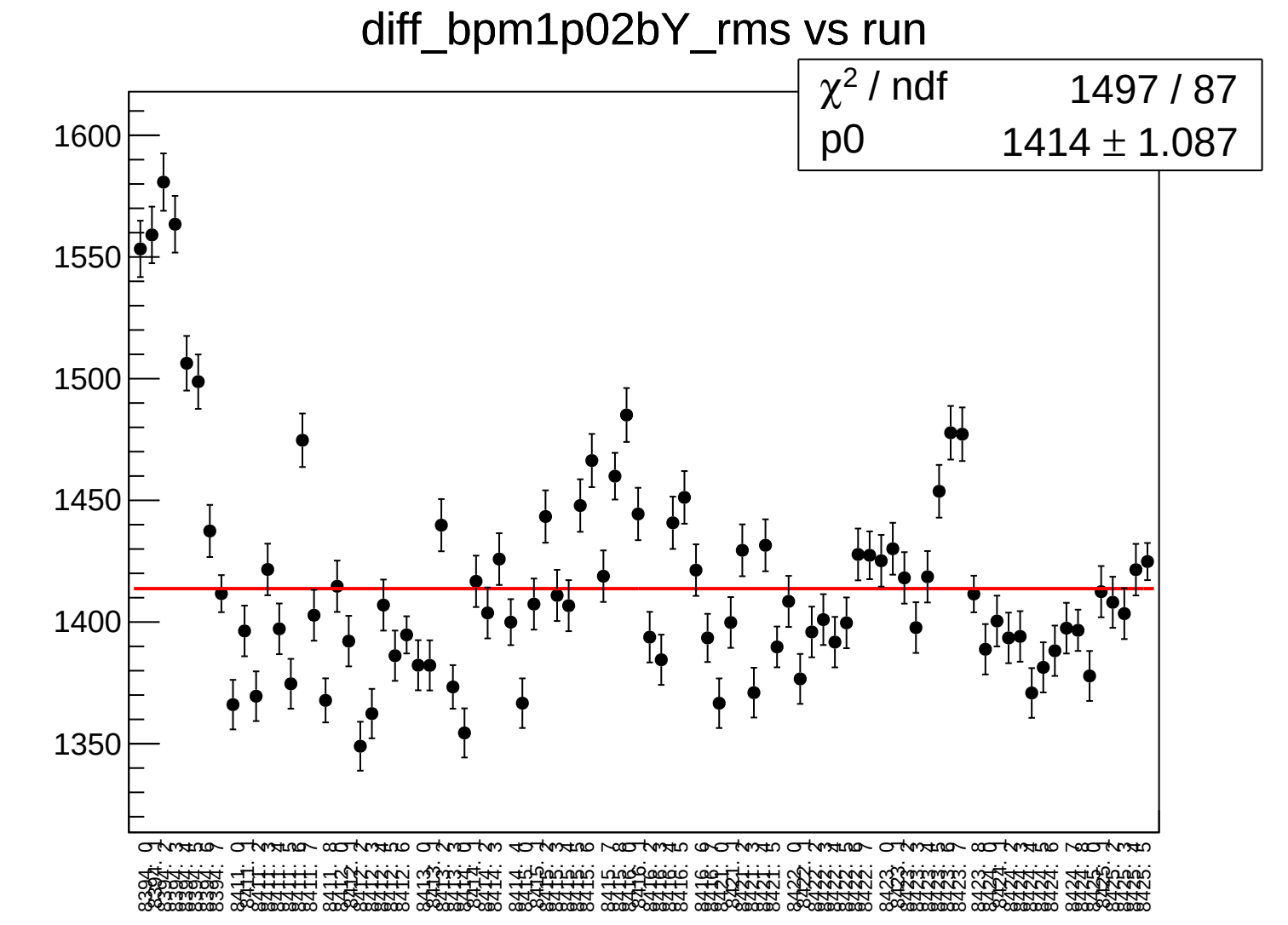

diff_bpm1p02bX_mean vs run
χ² / ndf 75.7 / 87
p0 −3.875 ± 2.525
pull
Entries 88
Mean −186.1
Std Dev 0

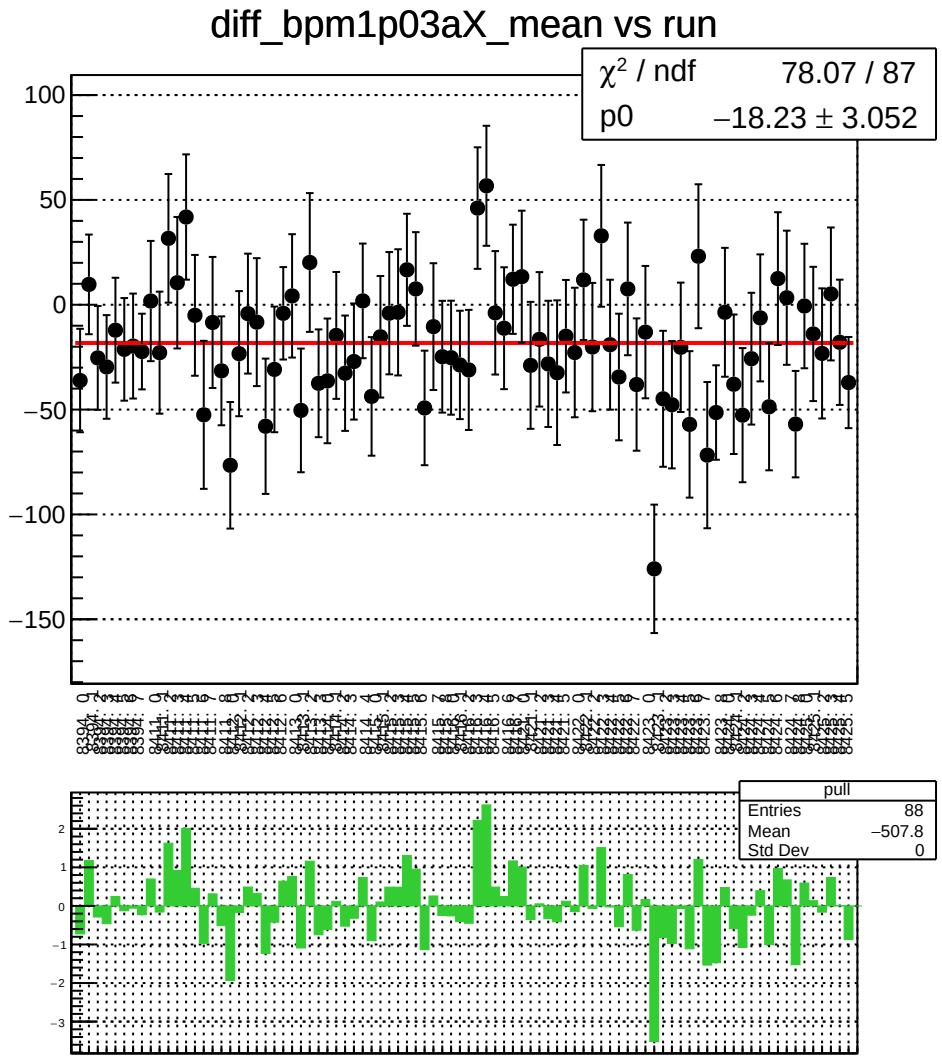

pull1D
Entries 88
Mean −0.01004
Std Dev 0.9274

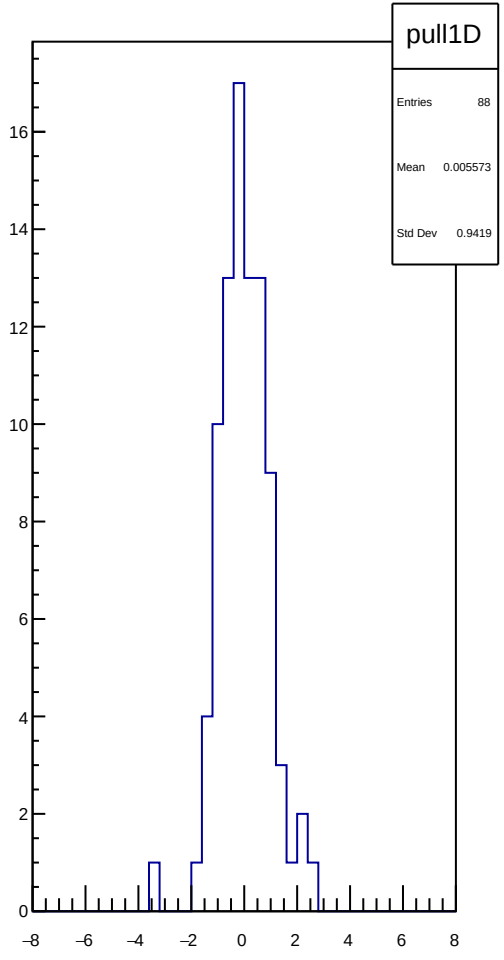

diff_bpm1p02bX_rms vs run
χ^2 / ndf 7273 / 87
p0 2318 ± 1.786
2700
2600
2500
2400
2300
2200
2100
2000

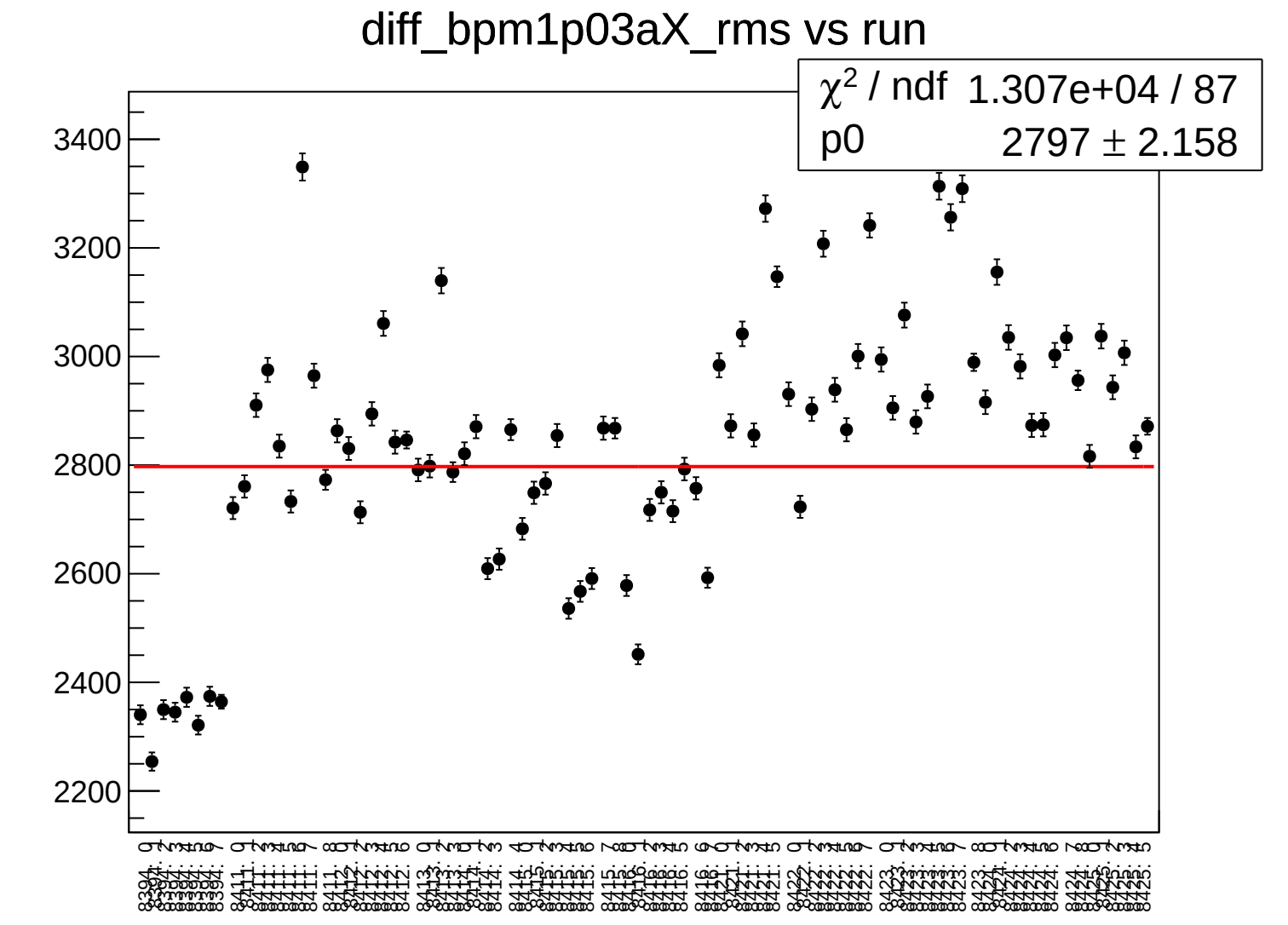

diff_bpm1p02bY_mean vs run
χ² / ndf 66.42 / 87
p0 −13.23 ± 1.537
pull
Entries 88
Mean −89.18
Std Dev 0

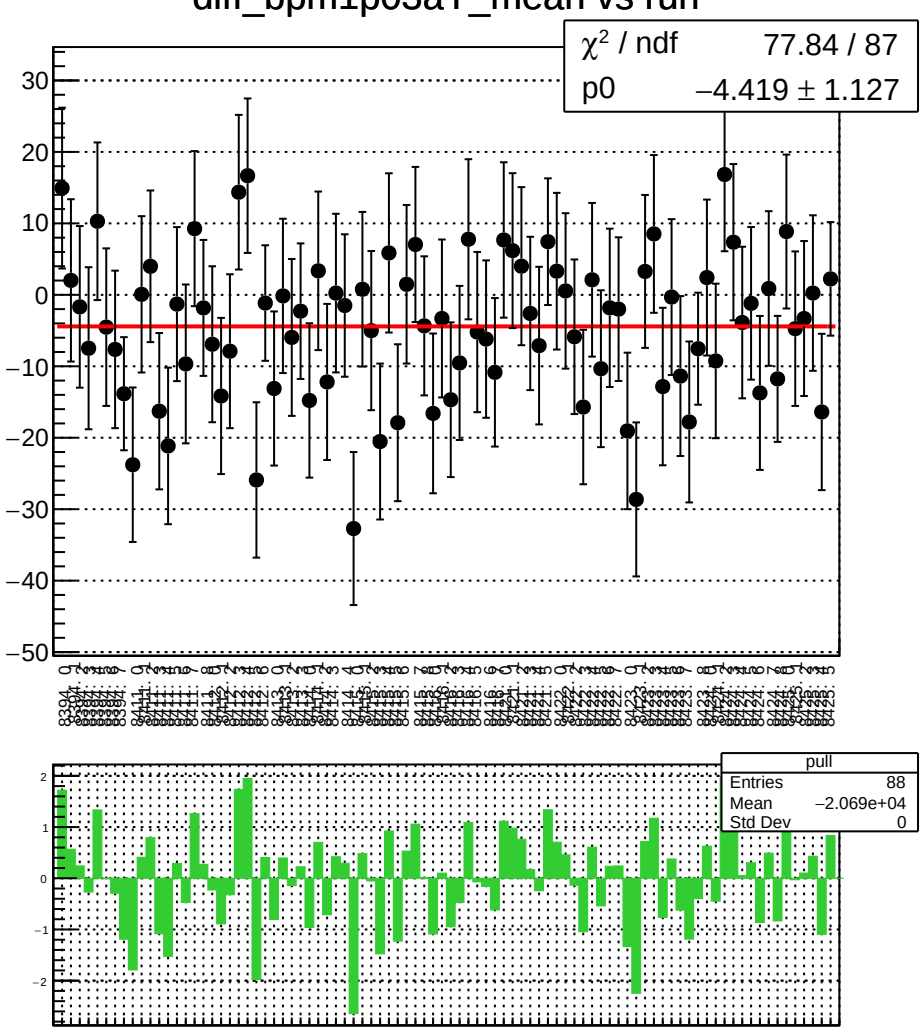

pull1D
Entries 88
Mean 0.01622
Std Dev 0.8686

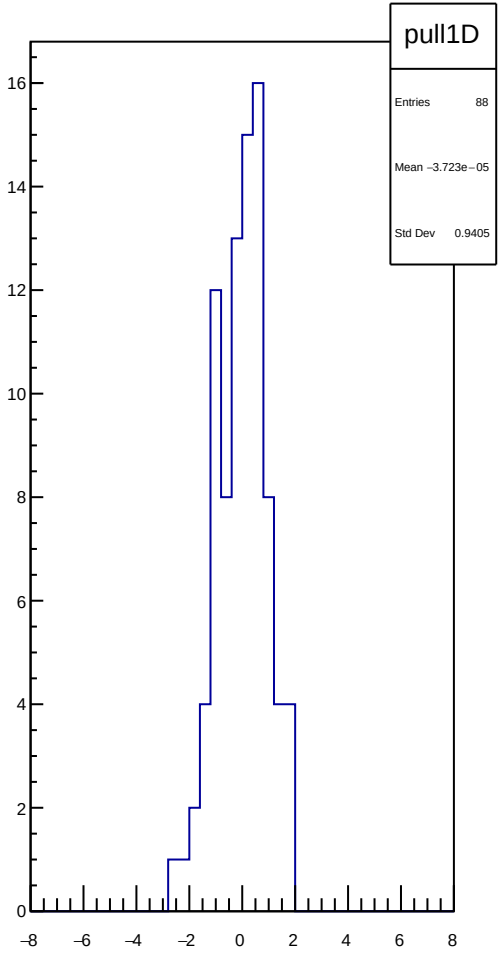

diff_bpm1p02bY_rms vs run
χ² / ndf 1497 / 87
p0 1414 ± 1.087
1600
1550
1500
1450
1400
1350

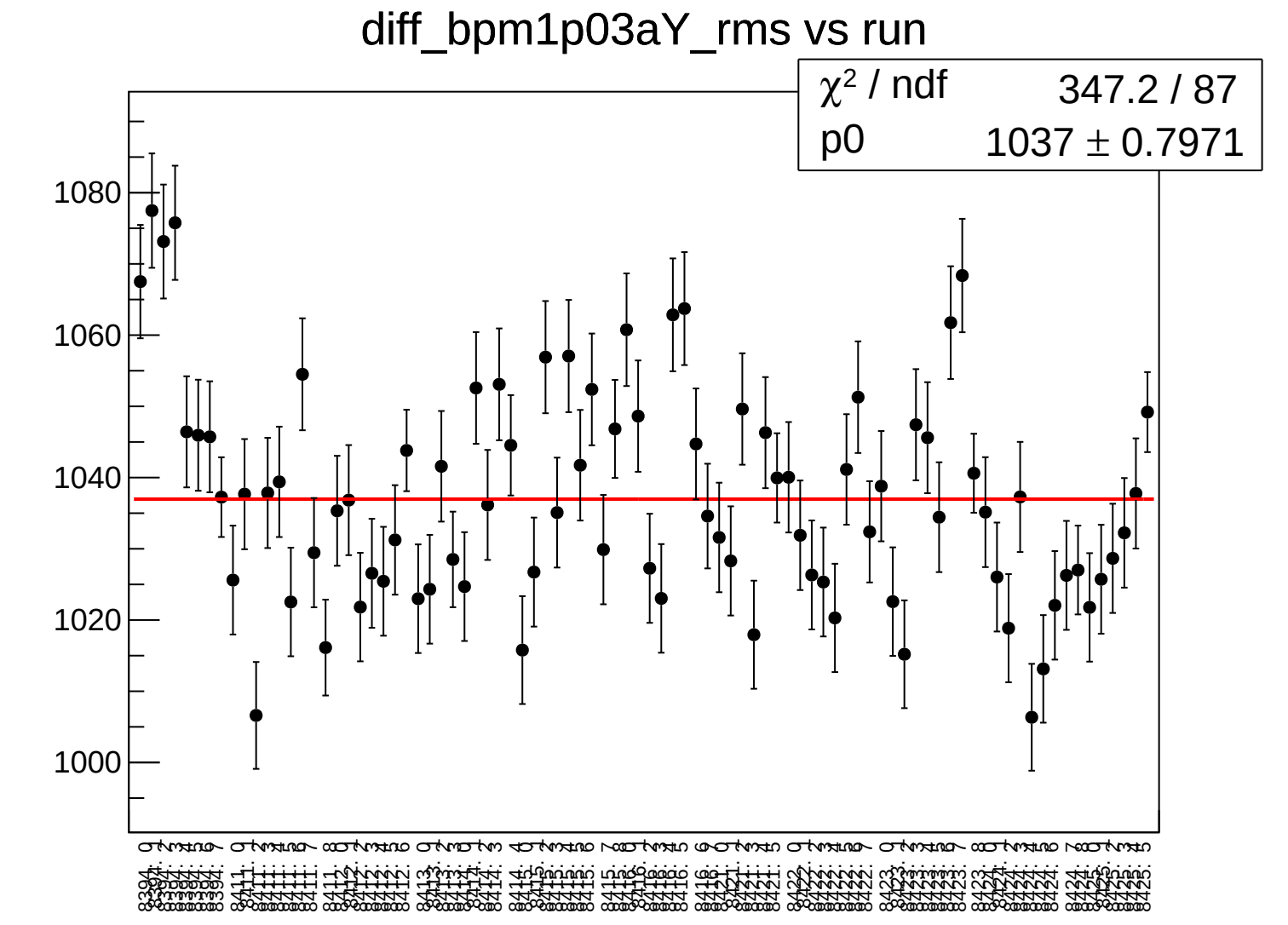

diff_bpm1p03aX_mean vs run
χ² / ndf 78.07 / 87
p0 −18.23 ± 3.052
100
50
0
−50
−100
−150
pull
Entries 88
Mean −507.8
Std Dev 0
2
1
0
−1
−2
−3

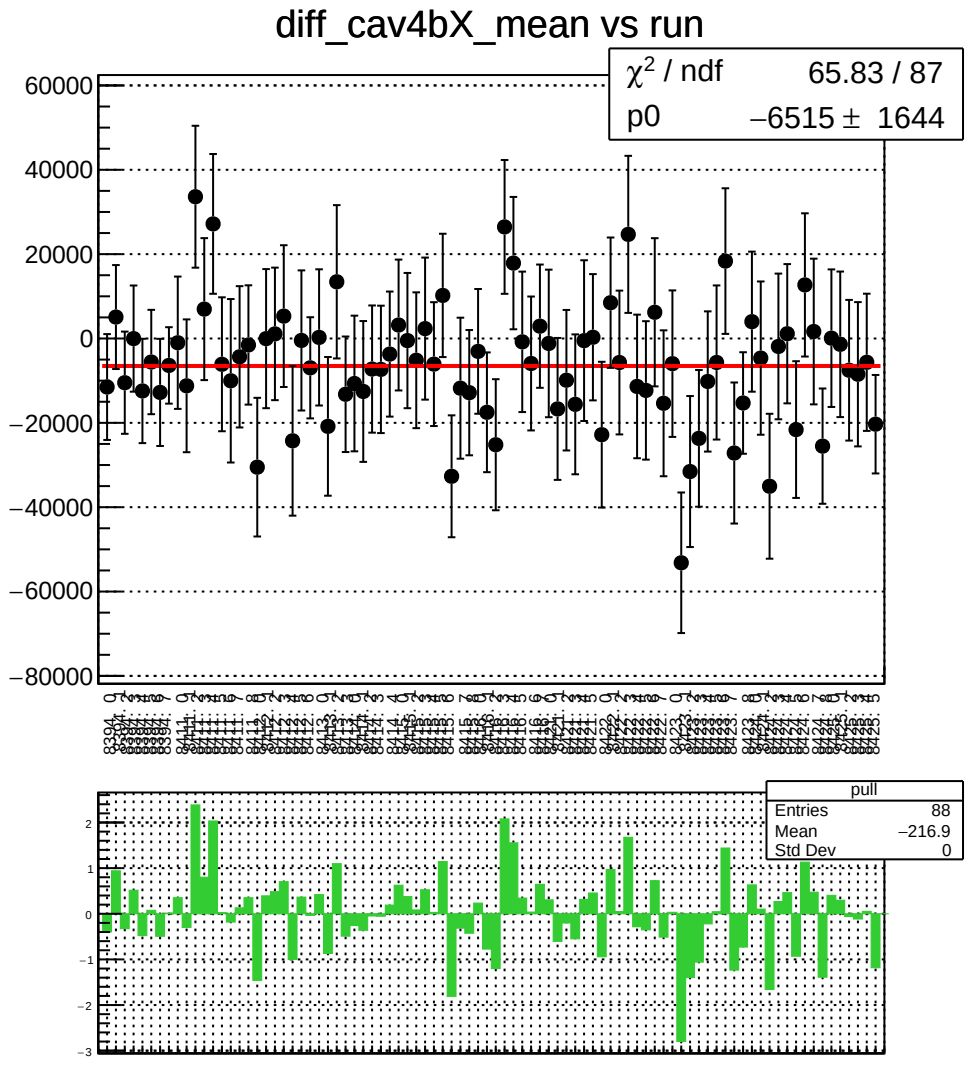

pull1D
Entries 88
Mean 0.005573
Std Dev 0.9419
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

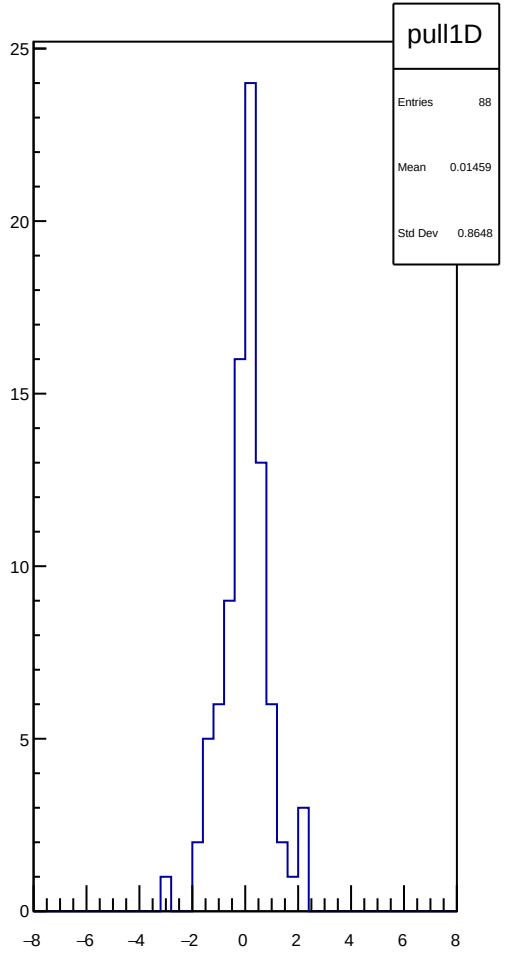

diff_bpm1p03aX_rms vs run
χ² / ndf 1.307e+04 / 87
p0 2797 ± 2.158
3400
3200
3000
2800
2600
2400
2200

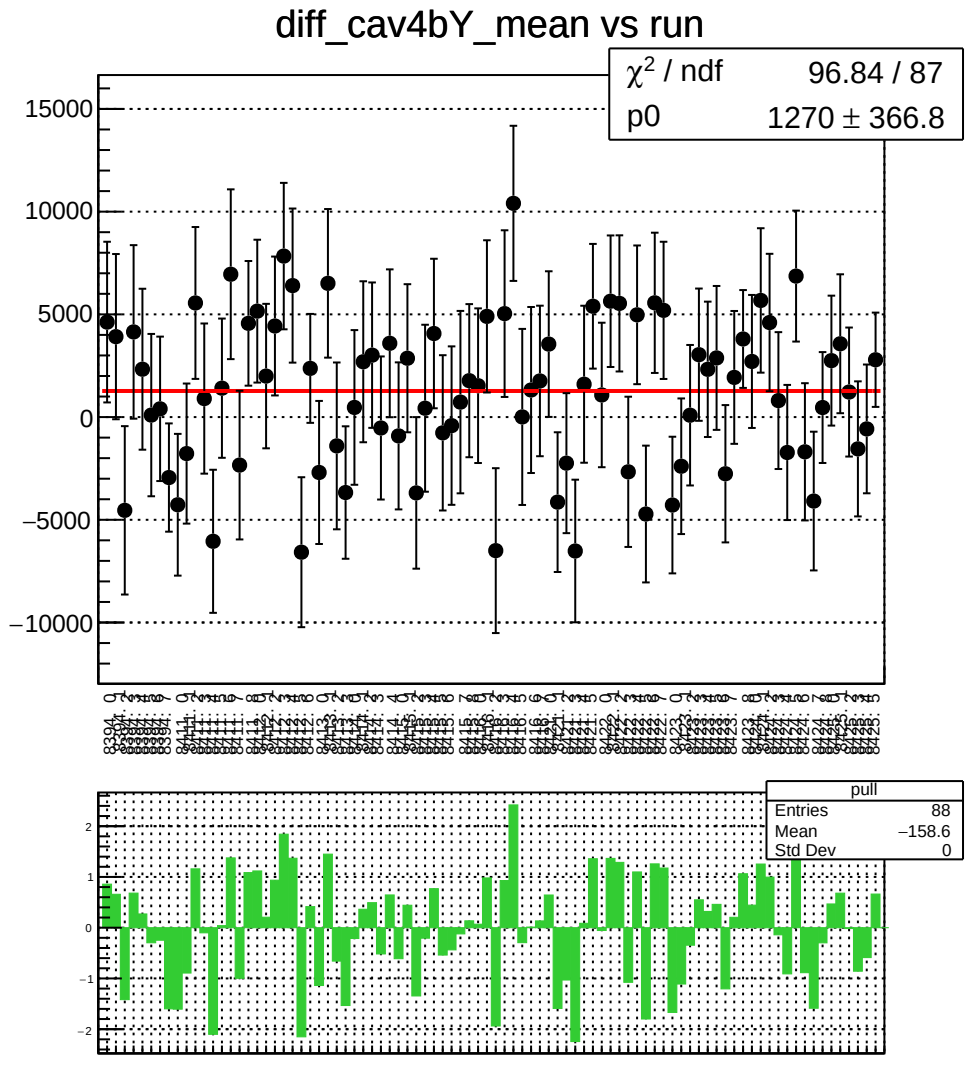

diff_bpm1p03aY_mean vs run
χ² / ndf 77.84 / 87
p0 −4.419 ± 1.127
pull
Entries 88
Mean −2.069e+04
Std Dev 0

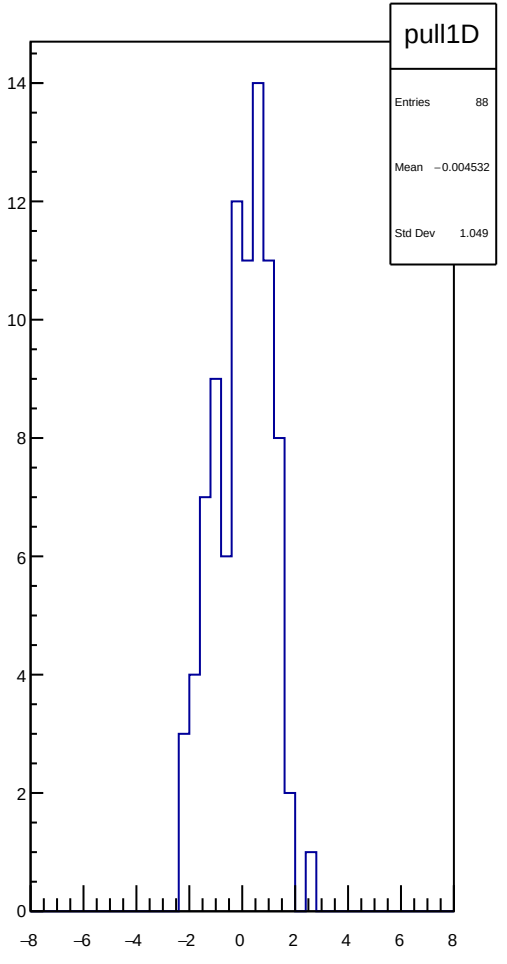

pull1D
Entries 88
Mean −3.723e−05
Std Dev 0.9405

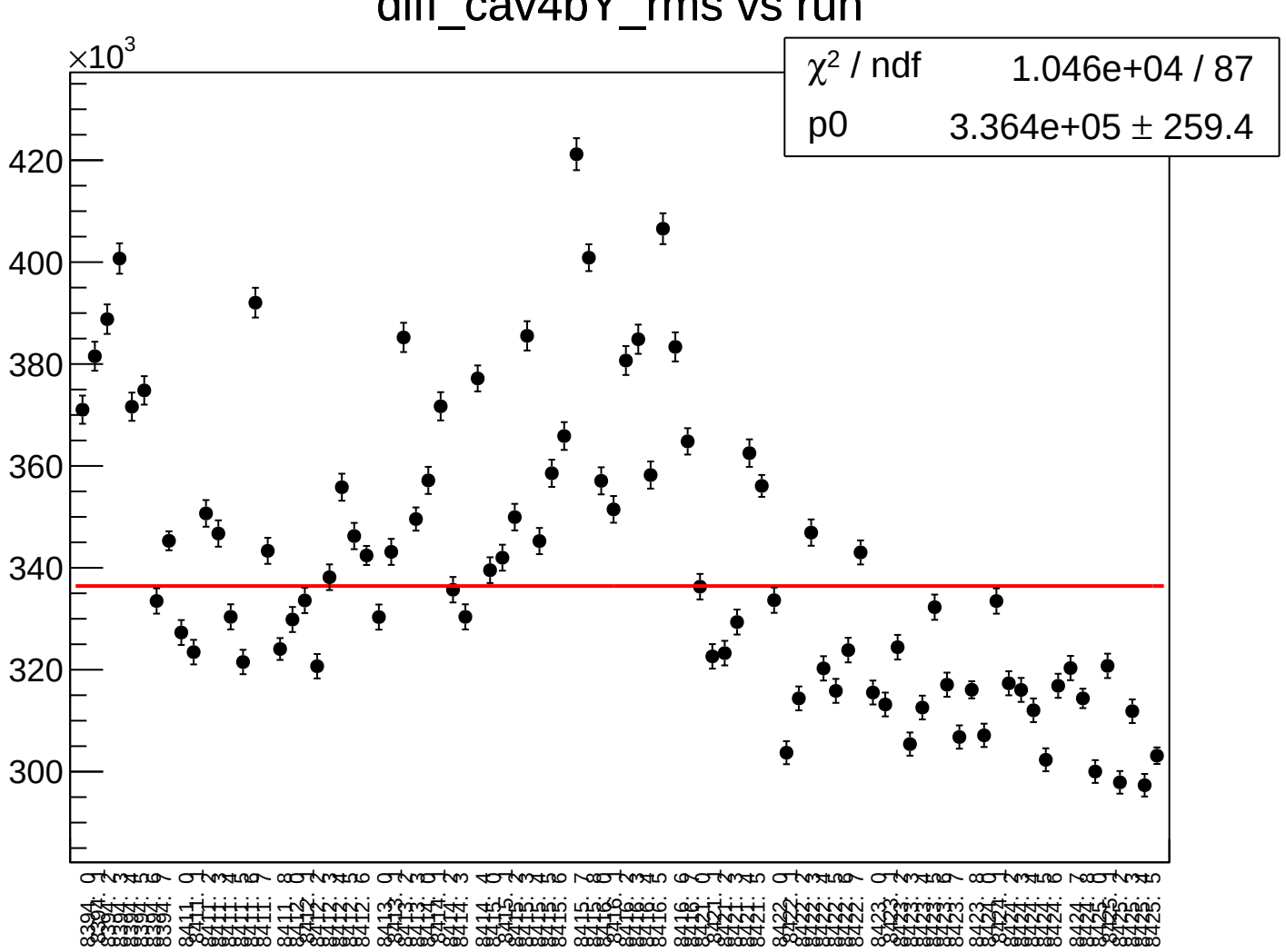

diff_bpm1p03aY_rms vs run
χ² / ndf 347.2 / 87
p0 1037 ± 0.7971
1080
1060
1040
1020
1000

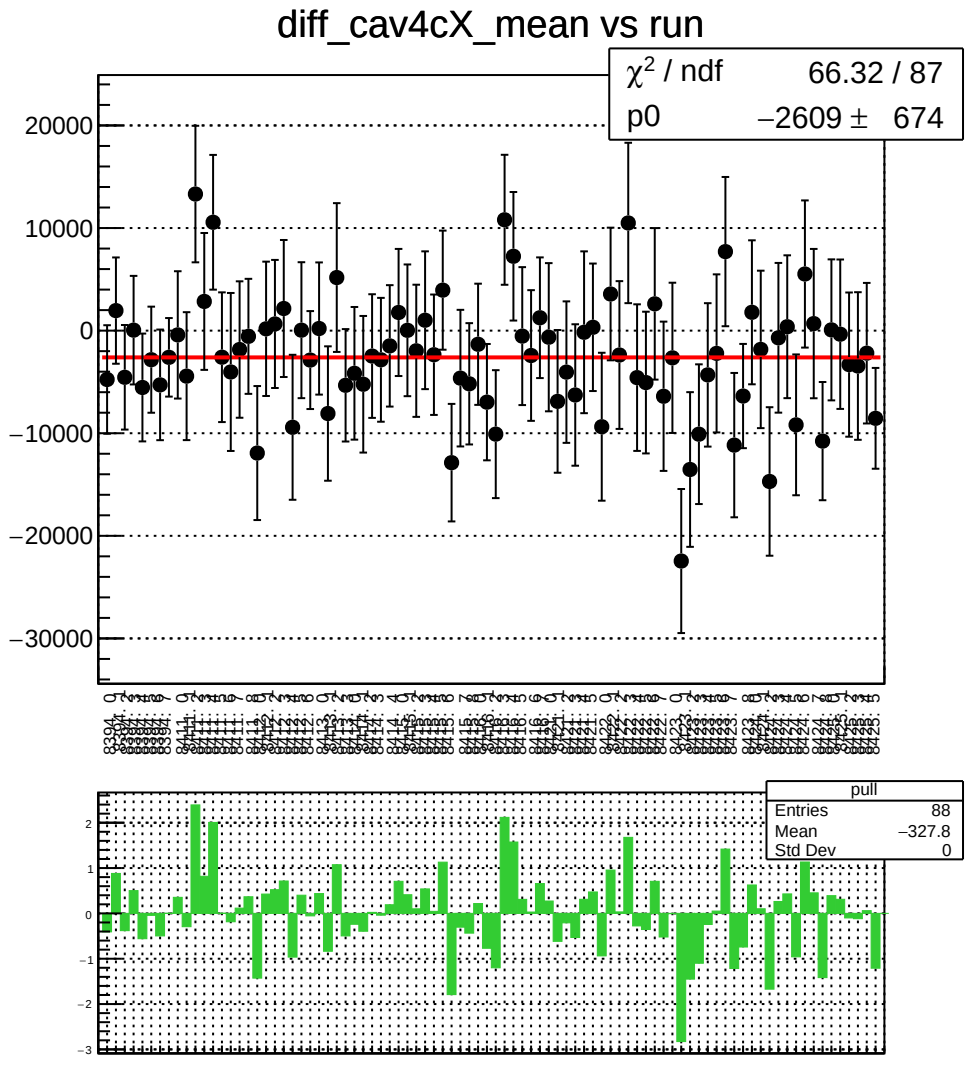

diff_cav4bX_mean vs run
χ² / ndf 65.83 / 87
p0 −6515 ± 1644
pull
Entries 88
Mean −216.9
Std Dev 0

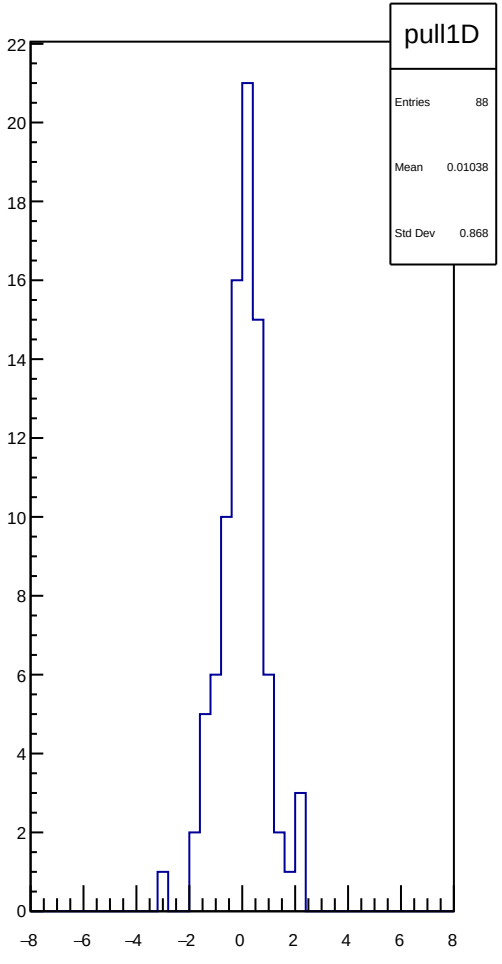

pull1D
Entries 88
Mean 0.01459
Std Dev 0.8648

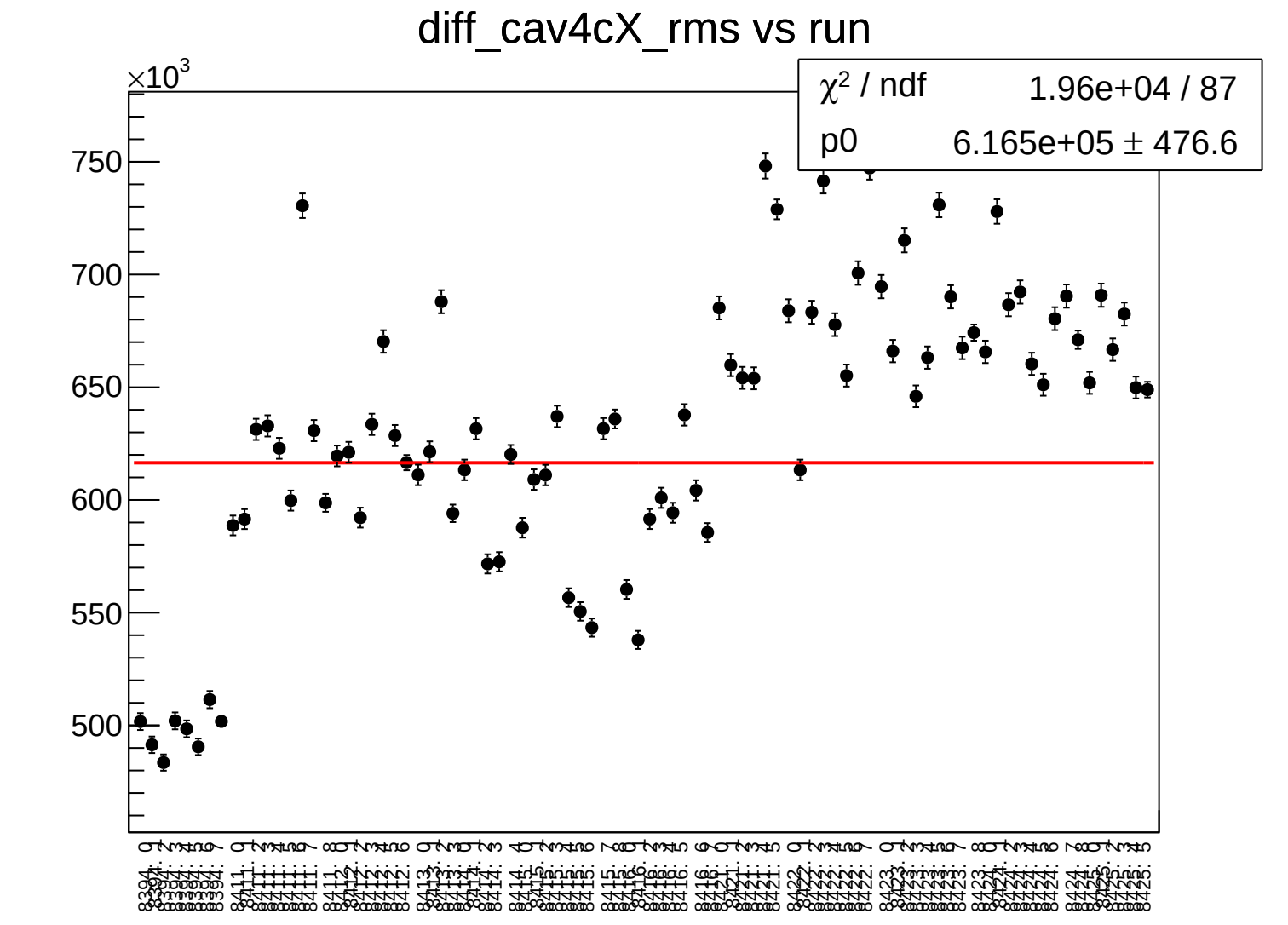

diff_cav4bY_mean vs run
χ² / ndf 96.84 / 87
p0 1270 ± 366.8
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −158.6
Std Dev 0
2
1
0
−1
−2

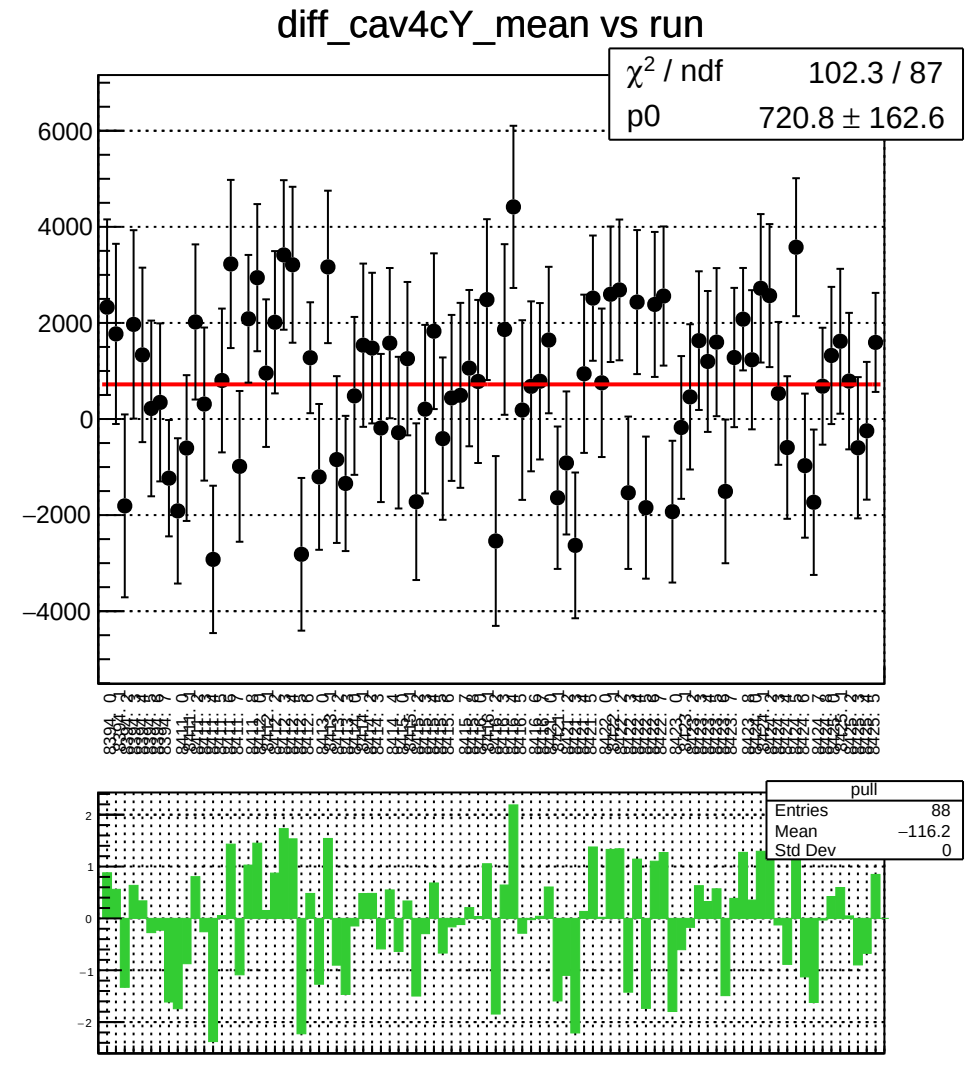

pull1D
Entries 88
Mean −0.004532
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

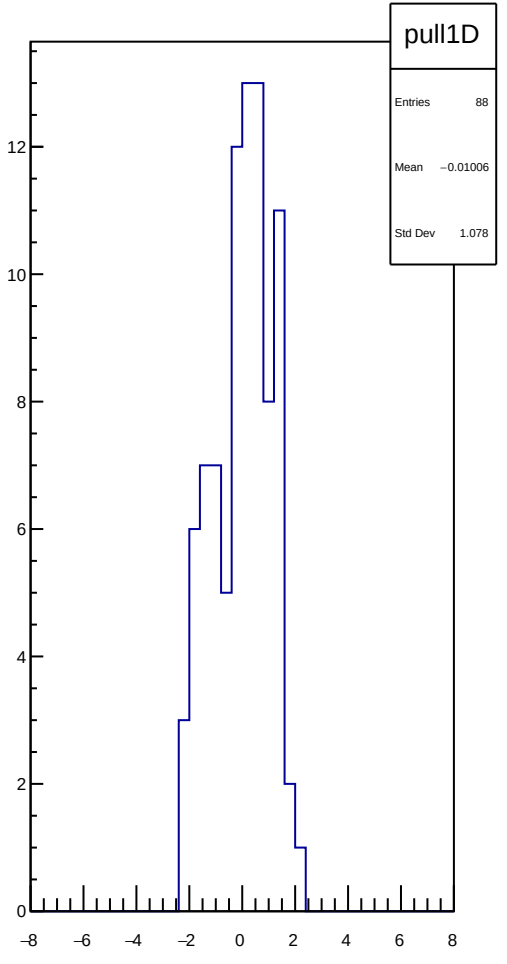

diff_cav4bY_rms vs run
×10^3
χ² / ndf 1.046e+04 / 87
p0 3.364e+05 ± 259.4
420
400
380
360
340
320
300

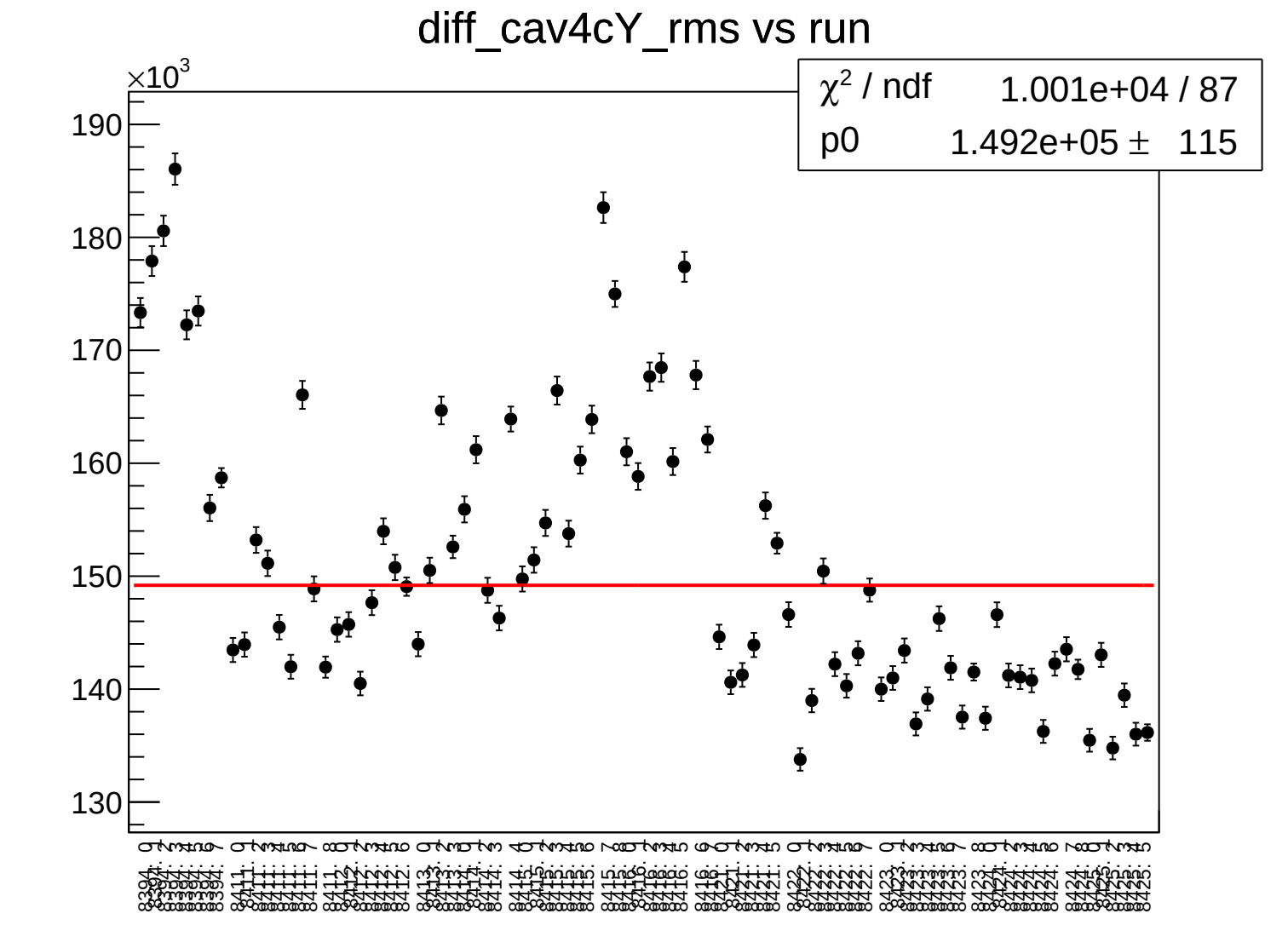

diff_cav4cX_mean vs run
χ² / ndf 66.32 / 87
p0 −2609 ± 674
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −327.8
Std Dev 0
2
1
0
−1
−2
−3

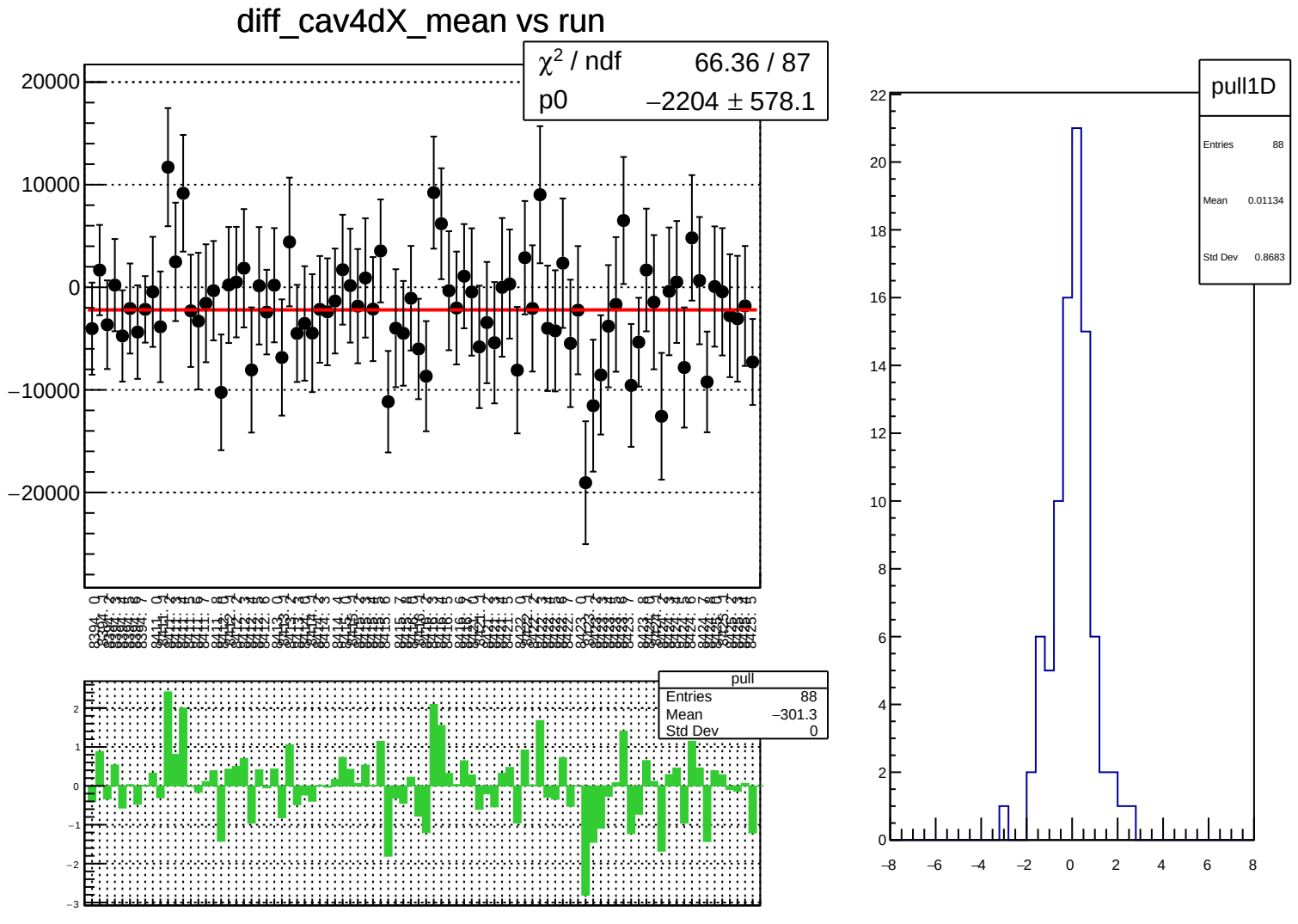

pull1D
Entries 88
Mean 0.01038
Std Dev 0.868
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

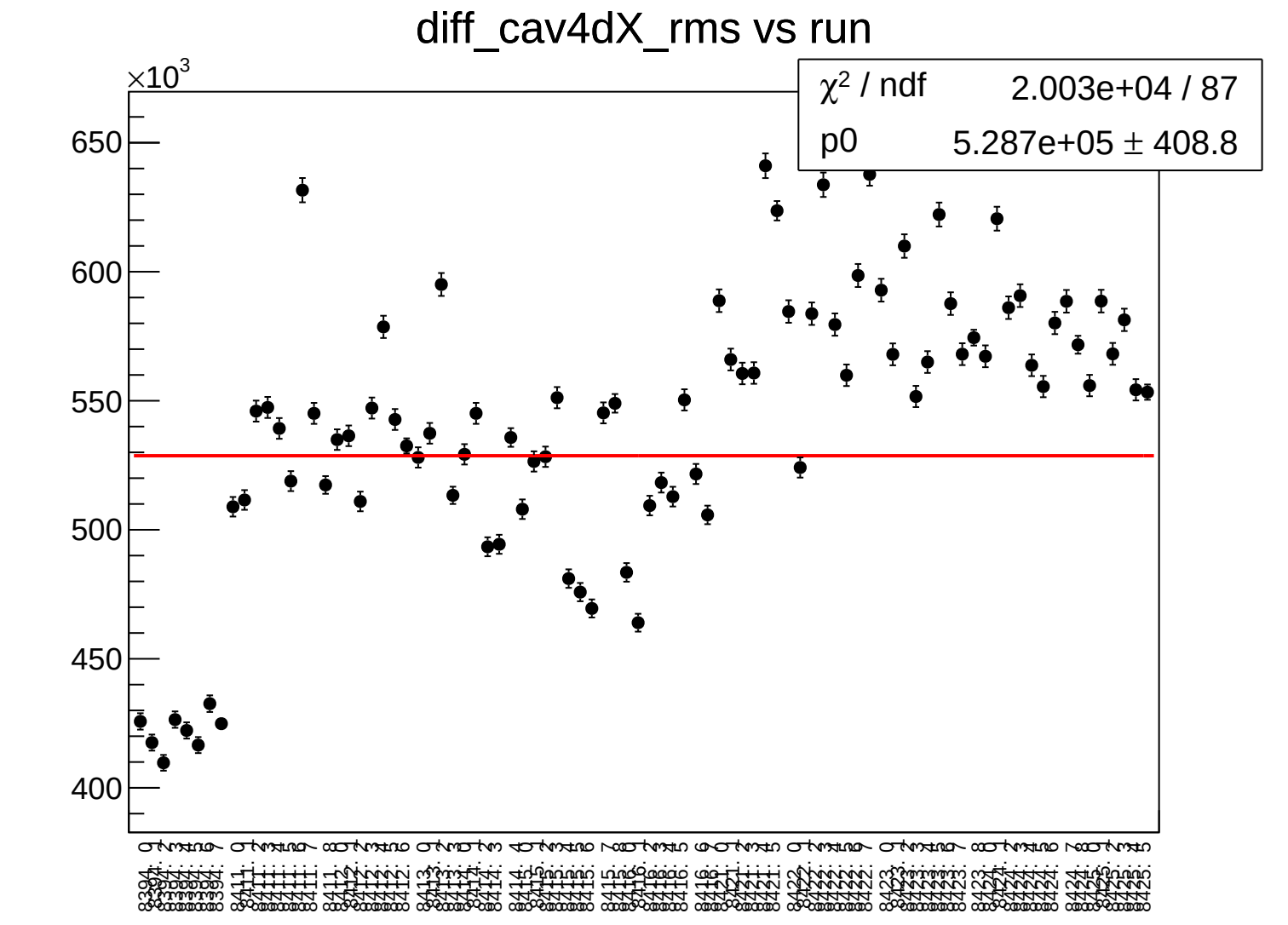

diff_cav4cX_rms vs run
×10^3
χ² / ndf 1.96e+04 / 87
p0 6.165e+05 ± 476.6
750
700
650
600
550
500

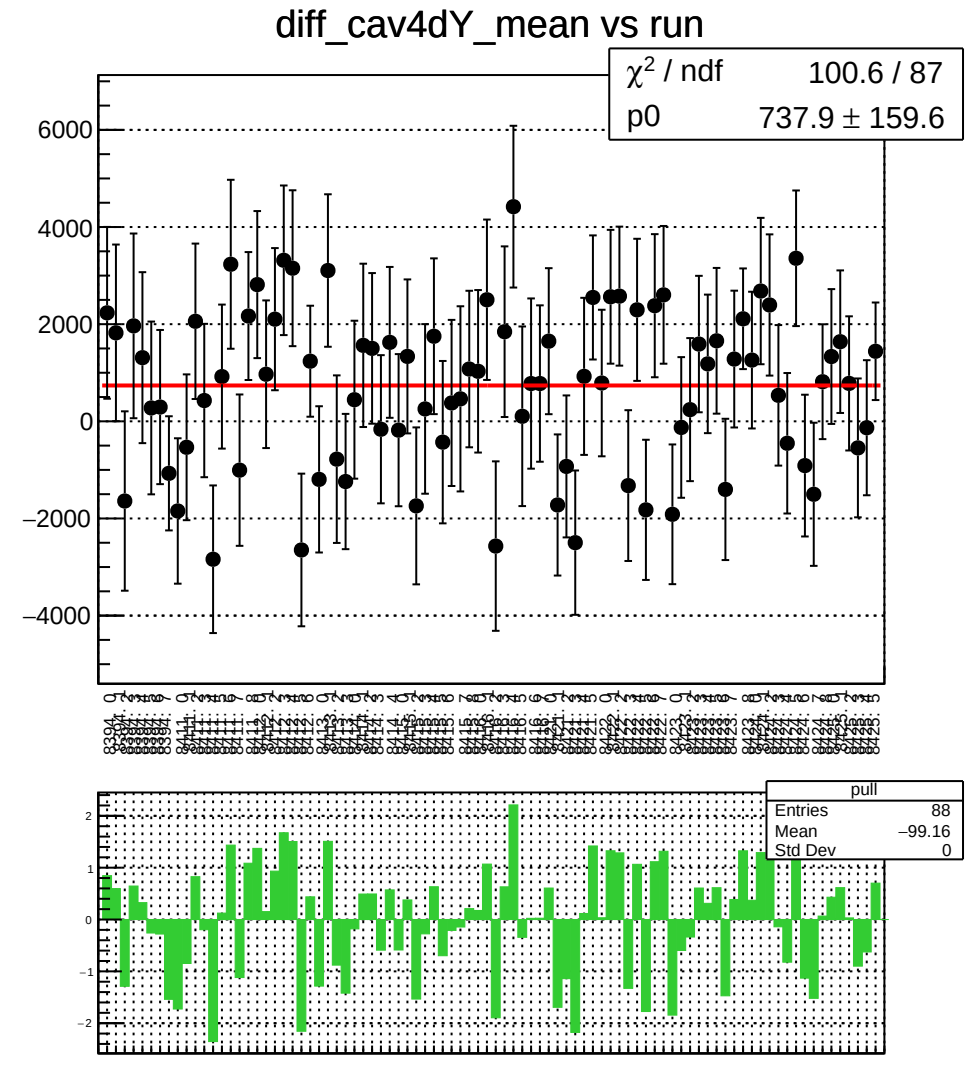

diff_cav4cY_mean vs run
χ² / ndf 102.3 / 87
p0 720.8 ± 162.6
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −116.2
Std Dev 0
2
1
0
−1
−2

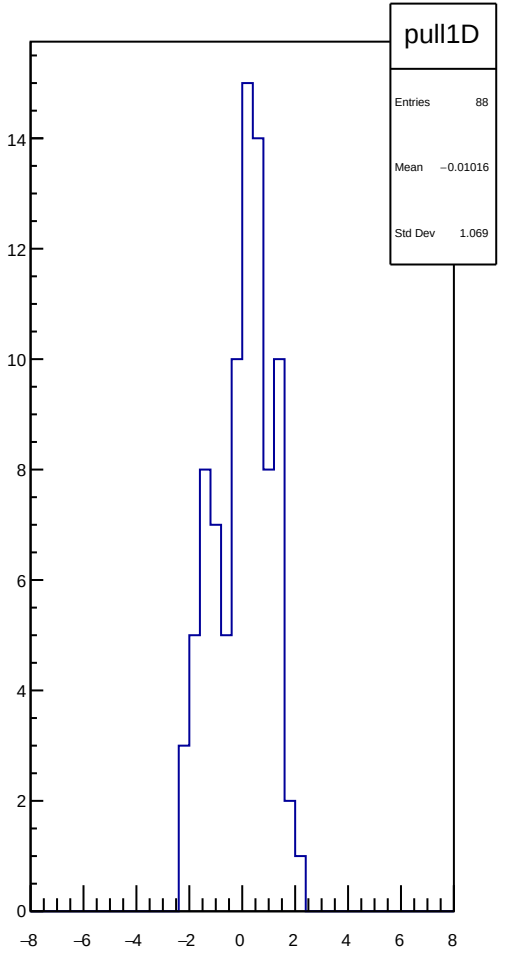

pull1D
Entries 88
Mean −0.01006
Std Dev 1.078
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

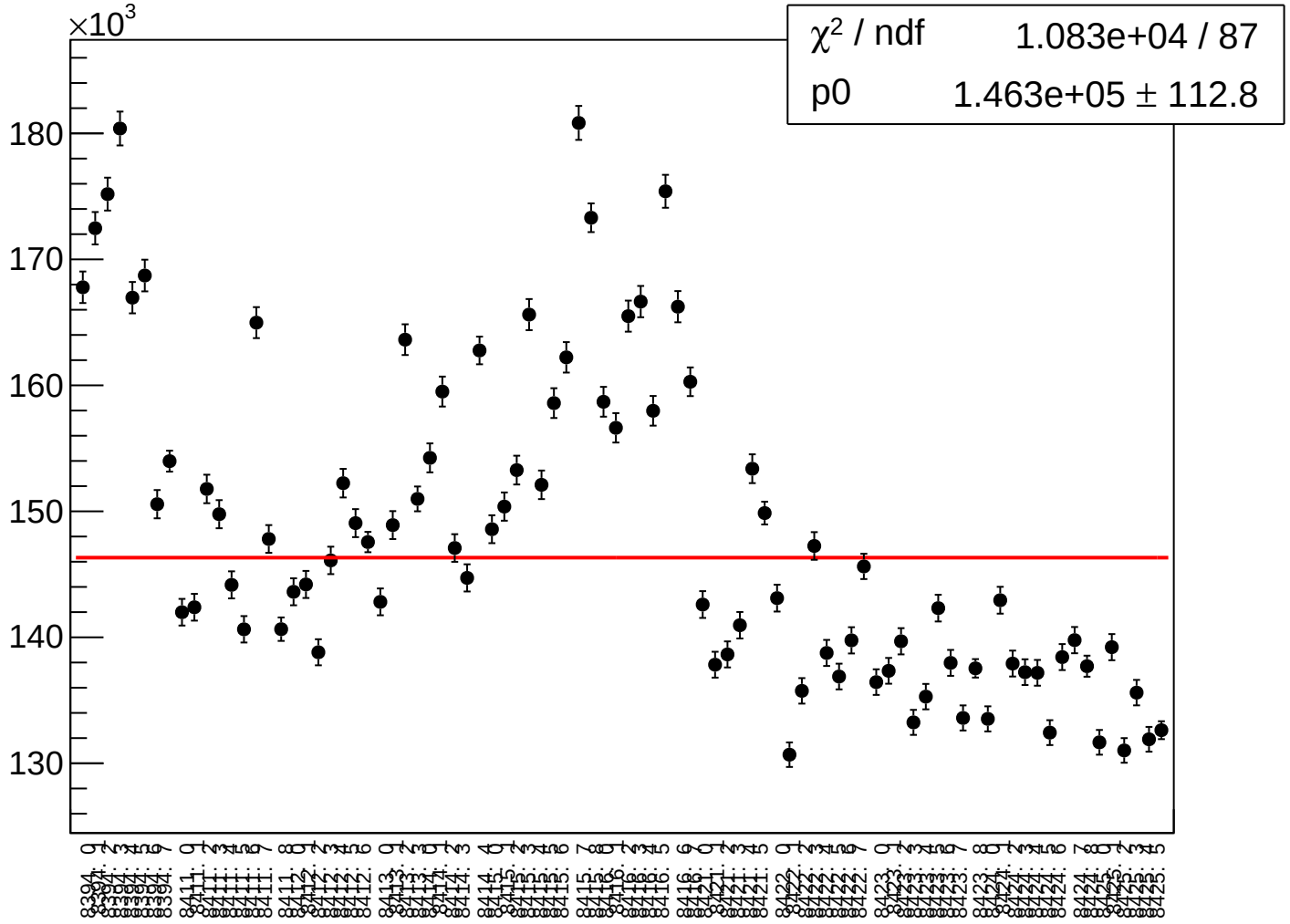

diff_cav4cY_rms vs run
×10^3
χ^2 / ndf 1.001e+04 / 87
p0 1.492e+05 ± 115
190
180
170
160
150
140
130

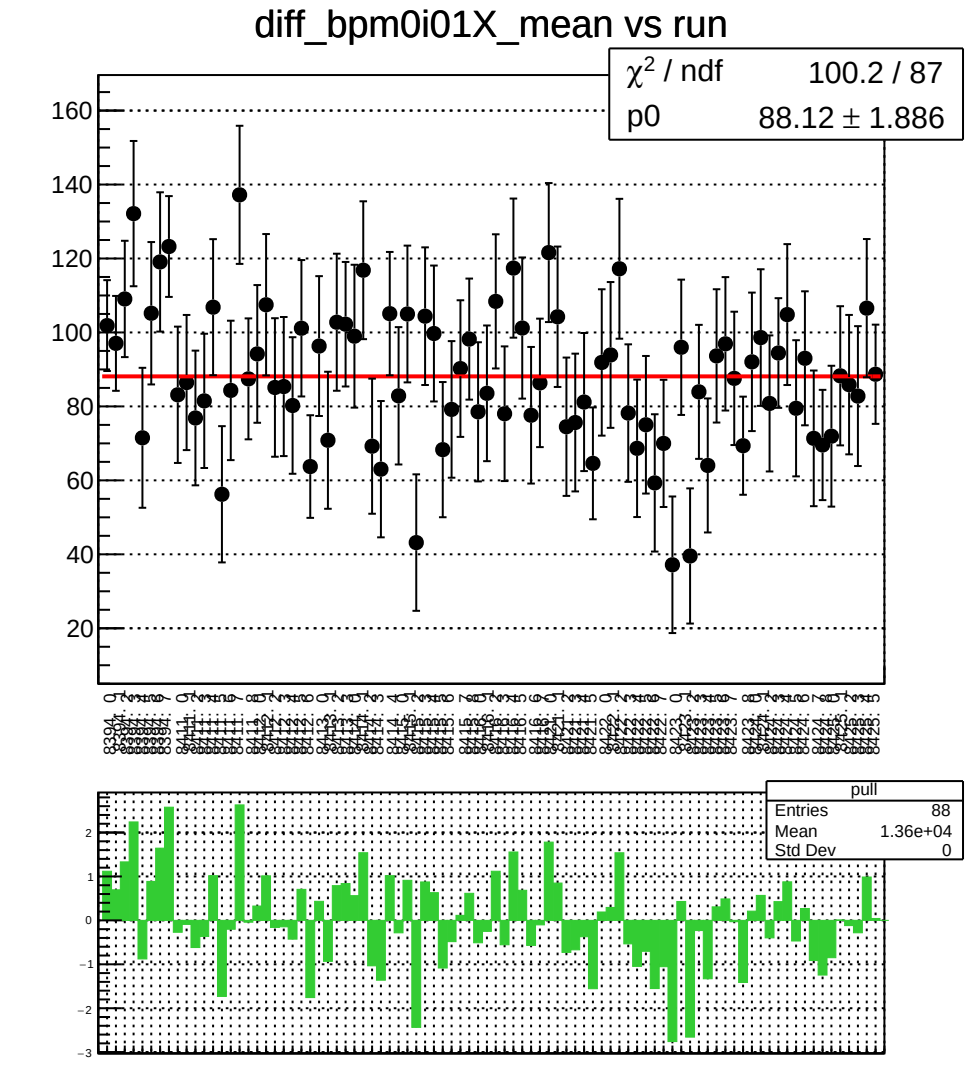

diff_cav4dX_mean vs run
χ² / ndf 66.36 / 87
p0 −2204 ± 578.1
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −301.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.01134
Std Dev 0.8683
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

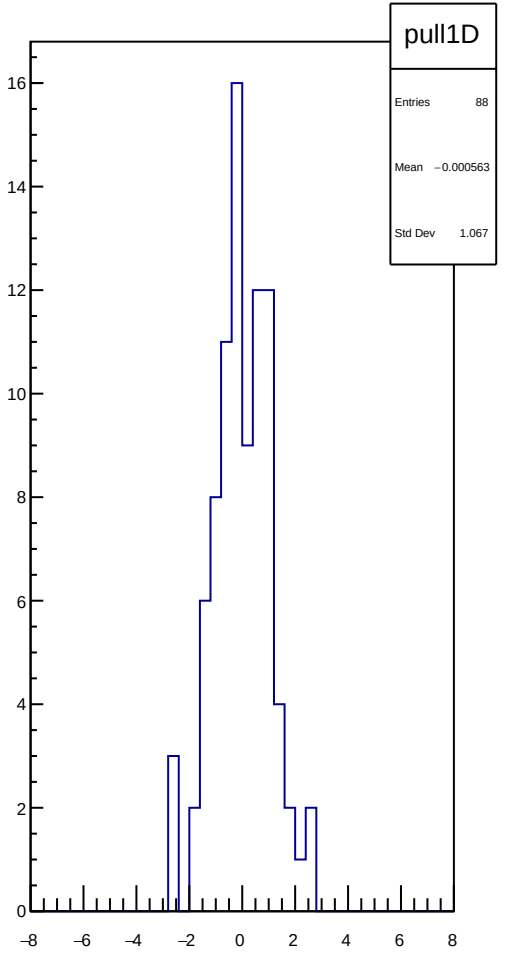

diff_cav4dX_rms vs run
×10^3
650
600
550
500
450
400
χ² / ndf 2.003e+04 / 87
p0 5.287e+05 ± 408.8

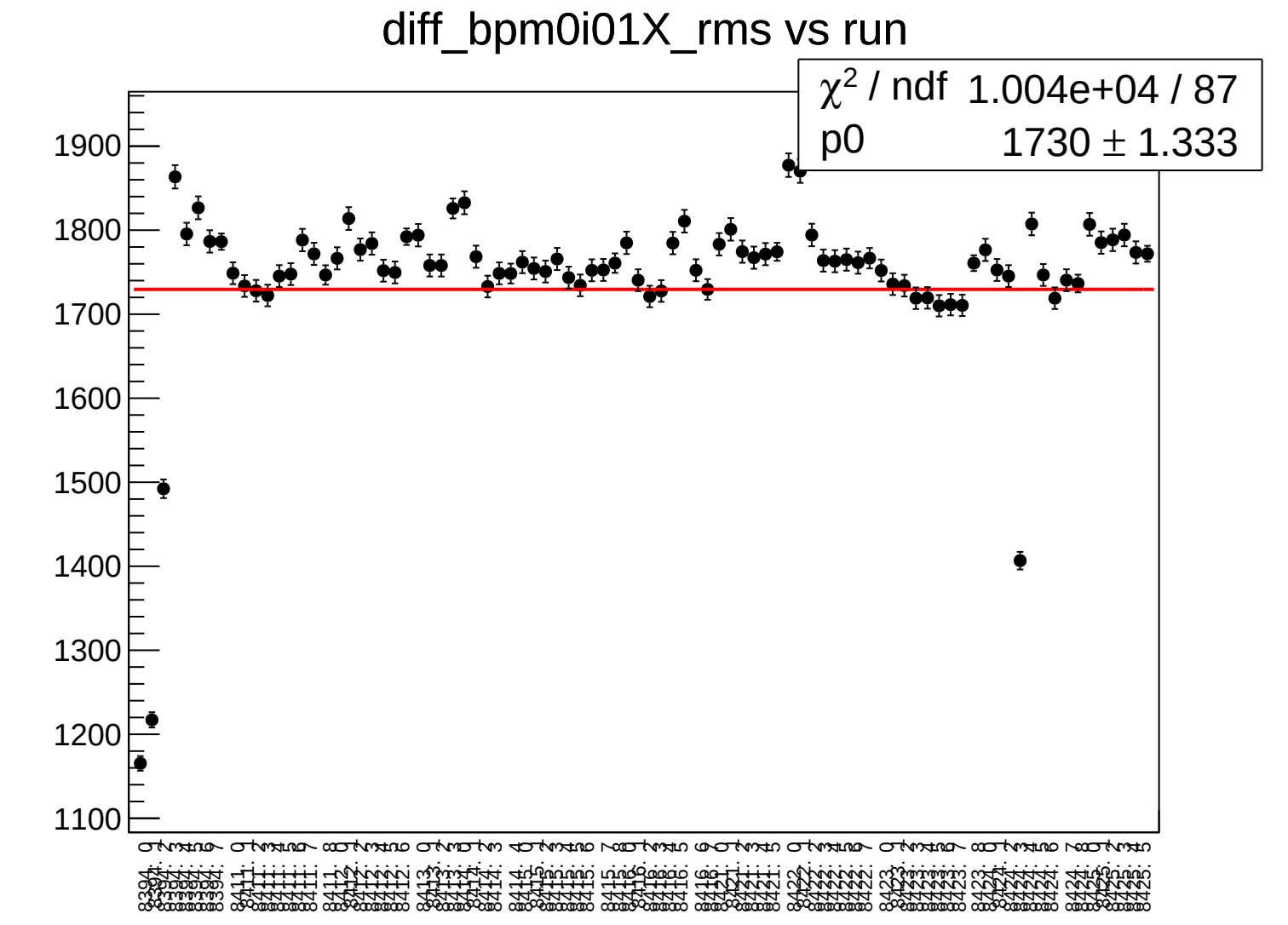

diff_cav4dY_mean vs run
χ² / ndf 100.6 / 87
p0 737.9 ± 159.6
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −99.16
Std Dev 0
2
1
0
−1
−2

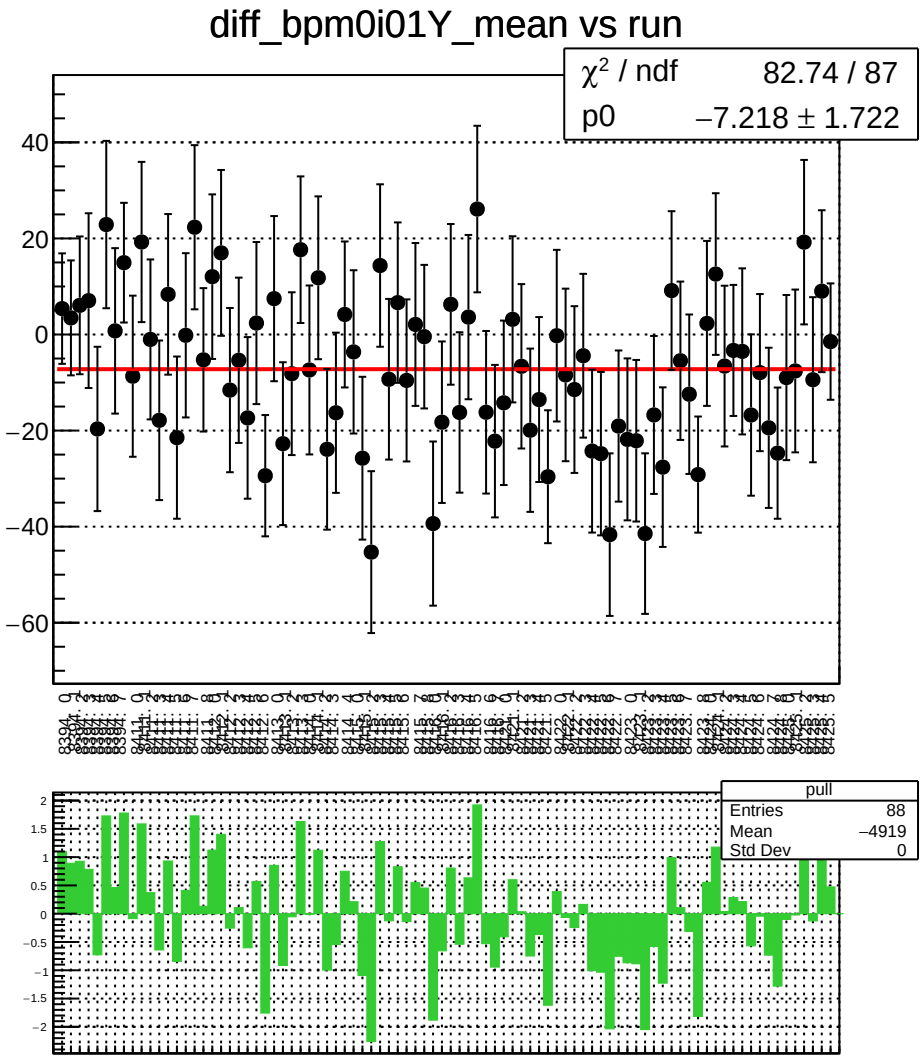

pull1D
Entries 88
Mean −0.01016
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

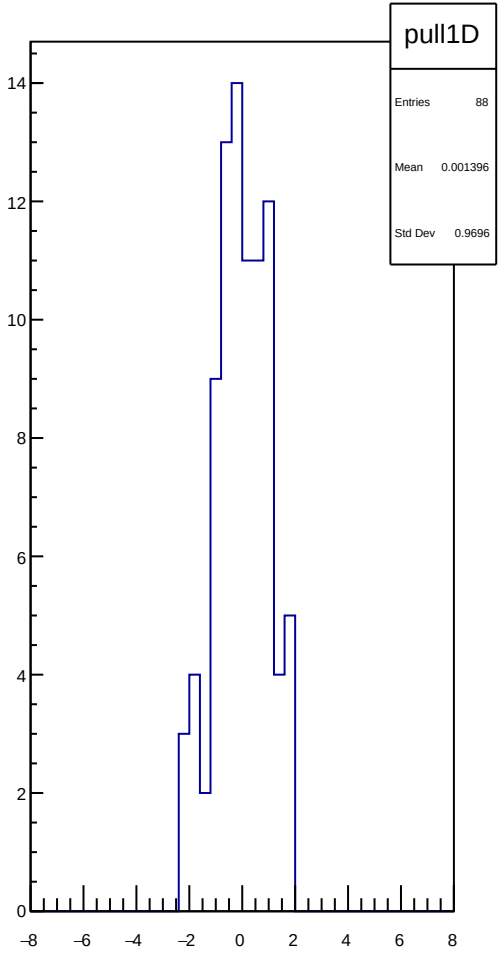

diff_cav4dY_rms vs run
×10^3
χ² / ndf 1.083e+04 / 87
p0 1.463e+05 ± 112.8
180
170
160
150
140
130

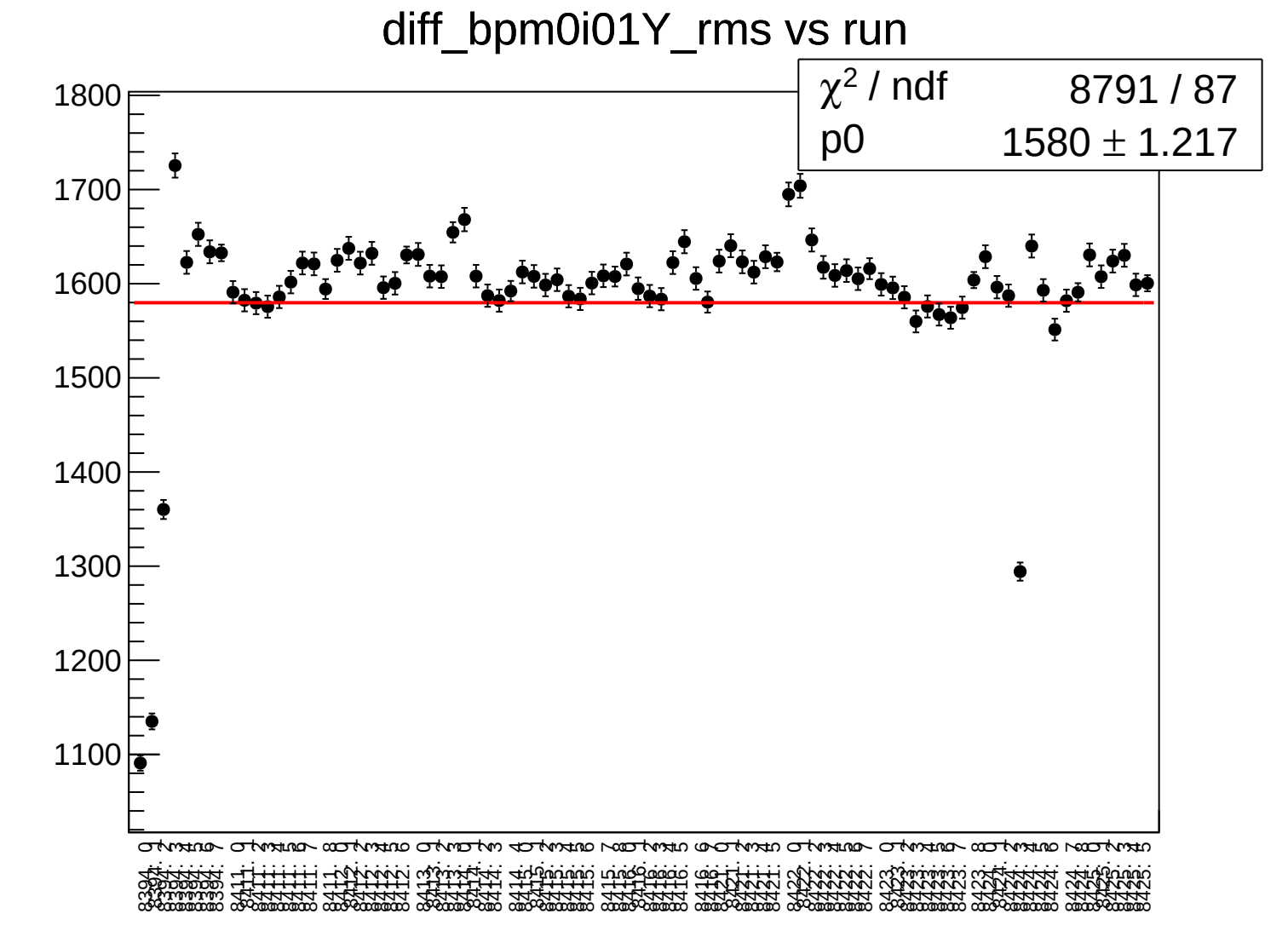

diff_bpm0i01X_mean vs run
χ² / ndf 100.2 / 87
p0 88.12 ± 1.886
pull
Entries 88
Mean 1.36e+04
Std Dev 0

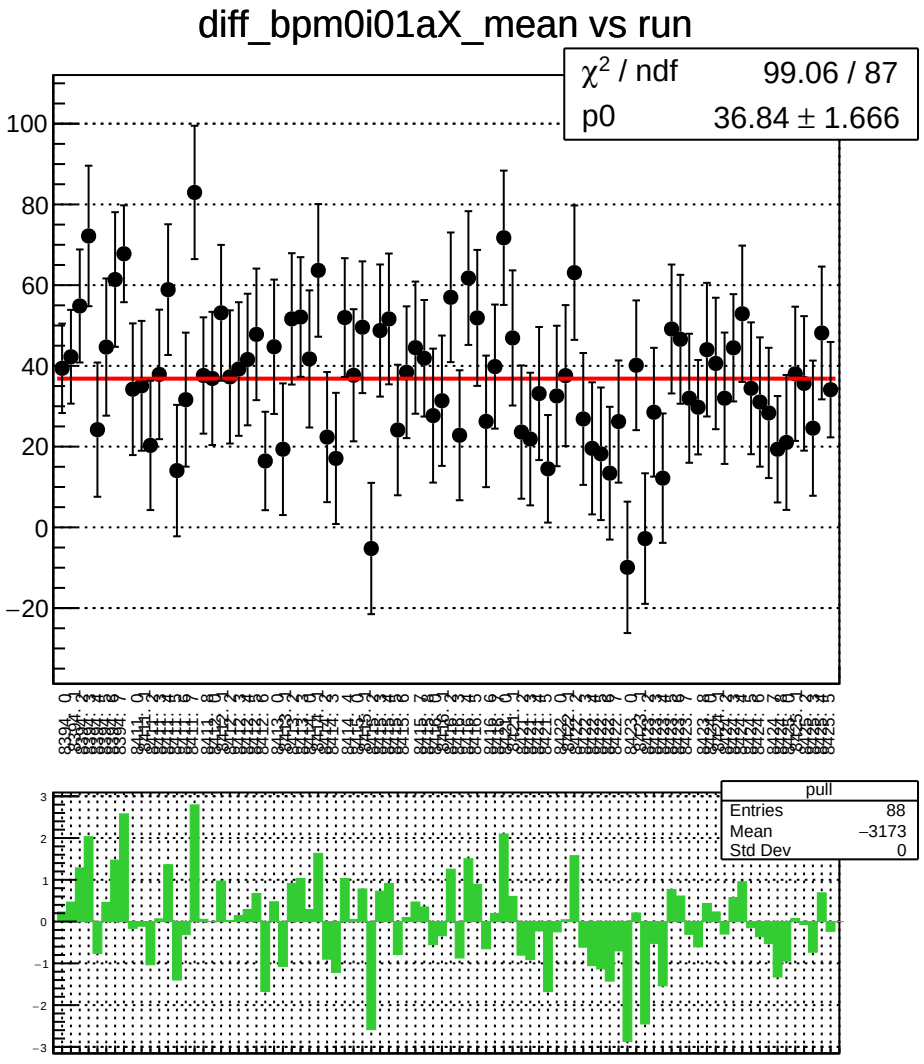

pull1D
Entries 88
Mean −0.000563
Std Dev 1.067

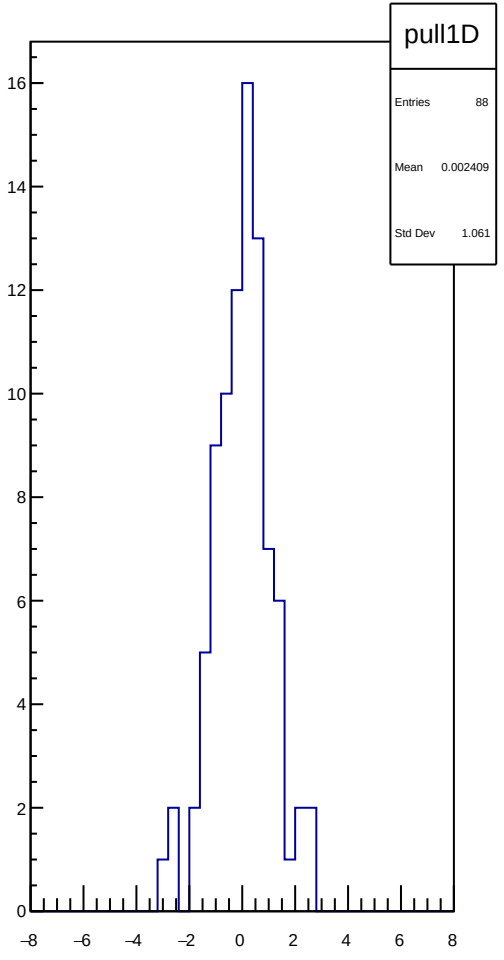

diff_bpm0i01X_rms vs run
χ^2 / ndf 1.004e+04 / 87
p0 1730 ± 1.333
1900
1800
1700
1600
1500
1400
1300
1200
1100

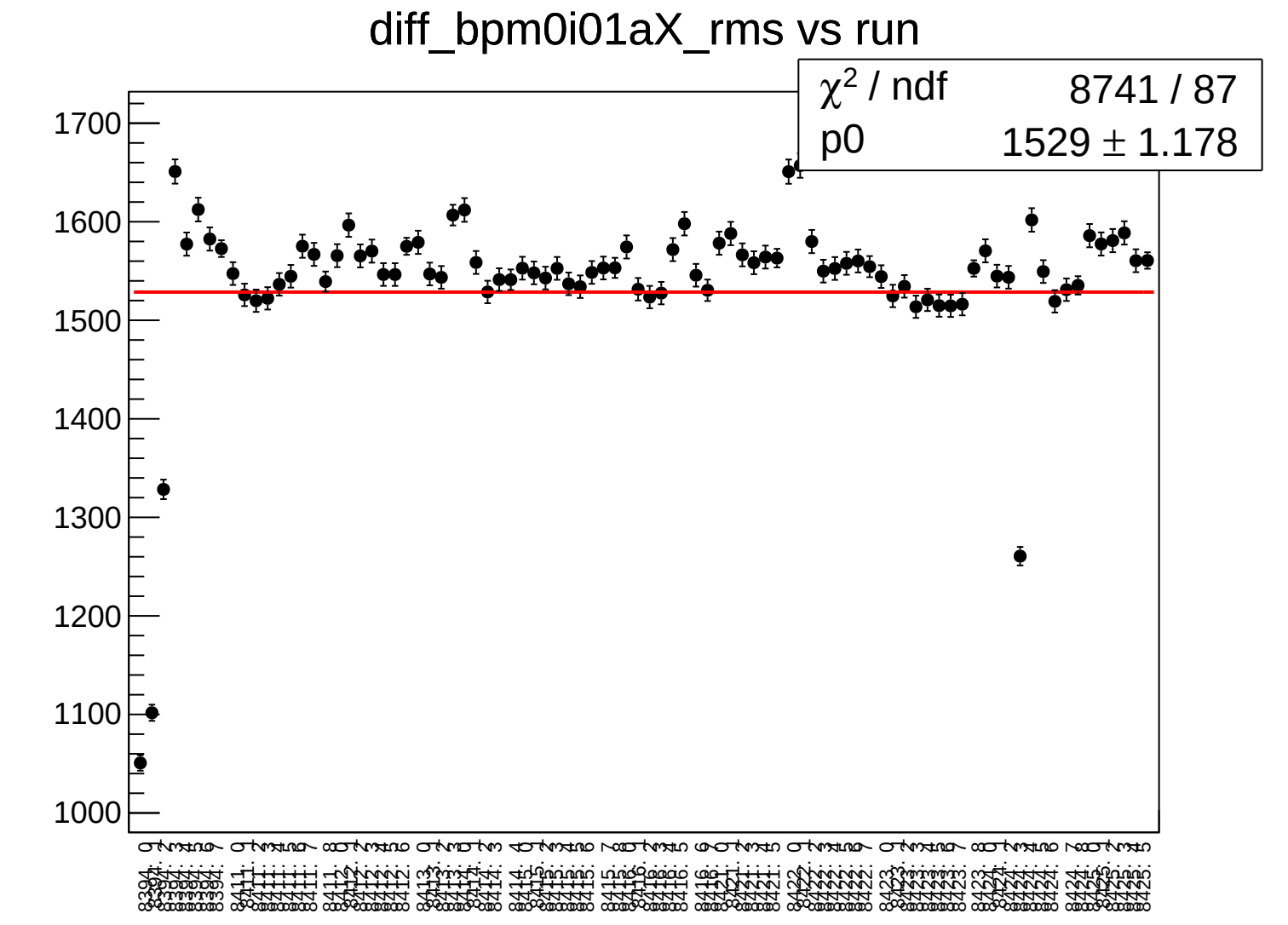

diff_bpm0i01Y_mean vs run
χ² / ndf 82.74 / 87
p0 −7.218 ± 1.722
pull
Entries 88
Mean −4919
Std Dev 0

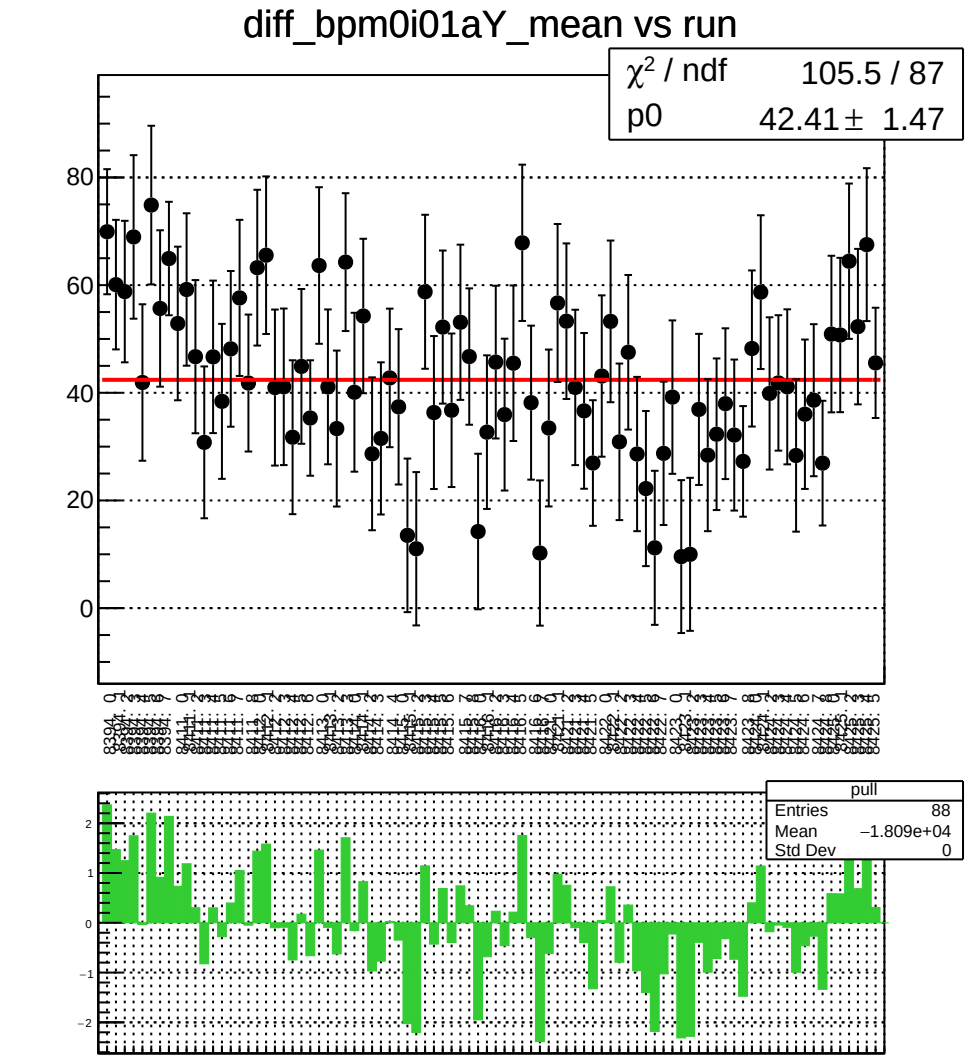

pull1D
Entries 88
Mean 0.001396
Std Dev 0.9696

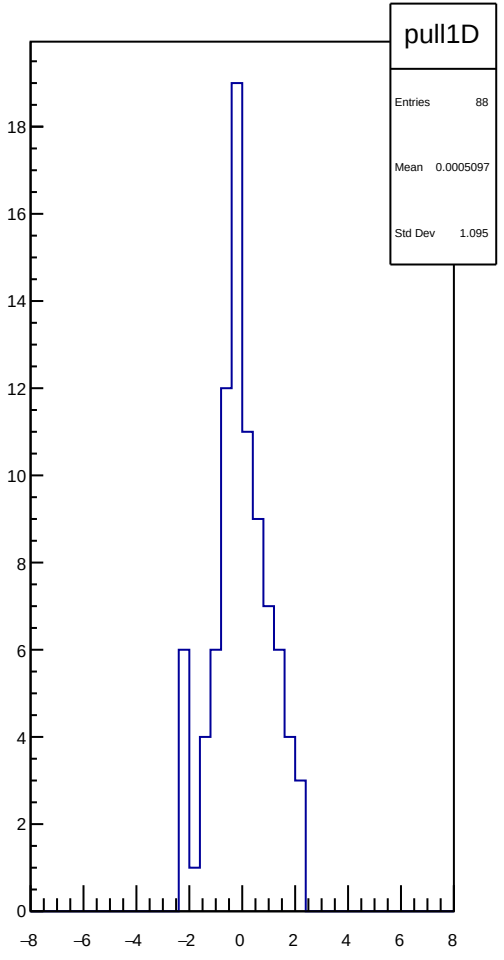

diff_bpm0i01Y_rms vs run
χ² / ndf 8791 / 87
p0 1580 ± 1.217
1800
1700
1600
1500
1400
1300
1200
1100

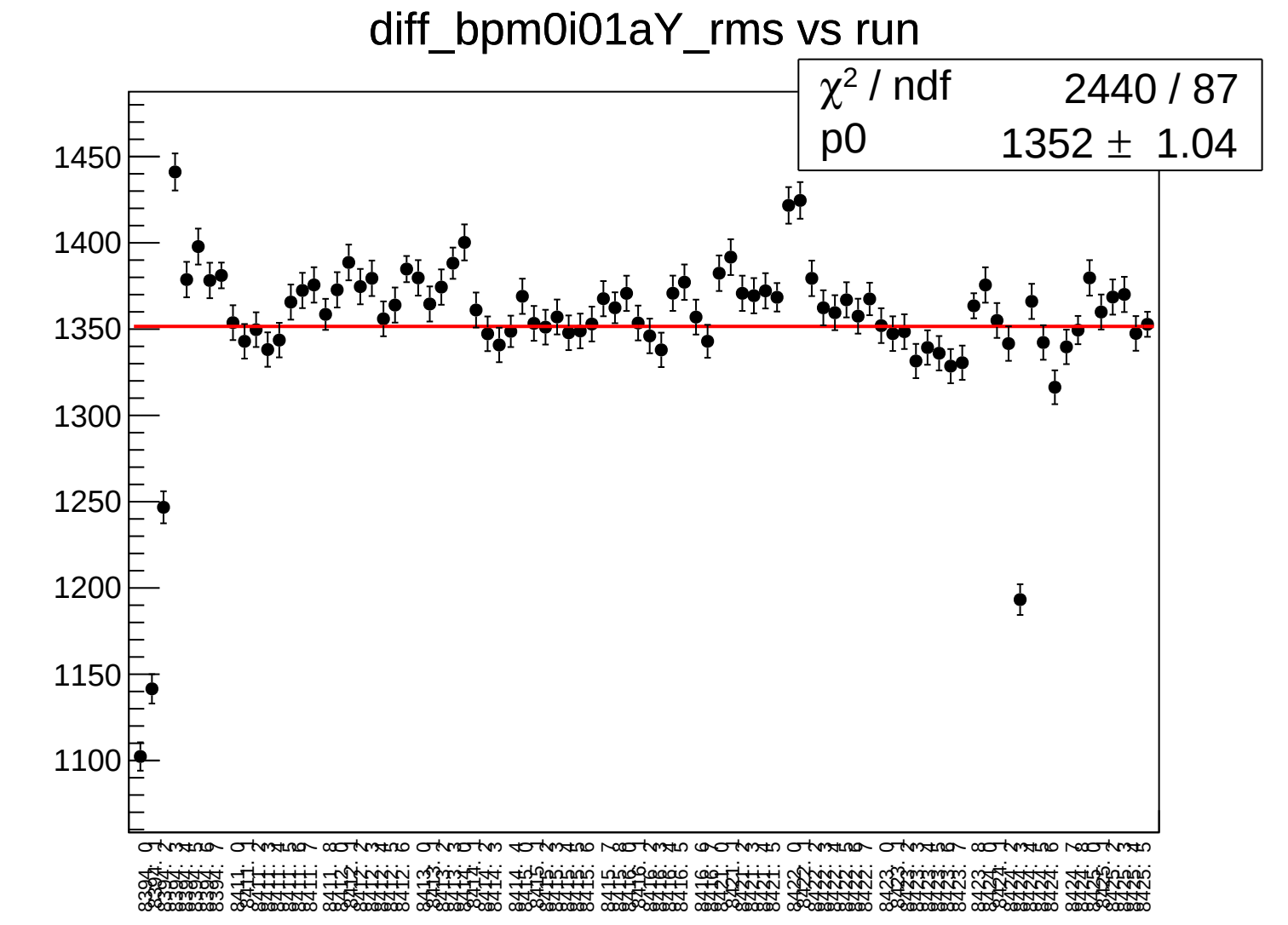

diff_bpm0i01aX_mean vs run
χ² / ndf 99.06 / 87
p0 36.84 ± 1.666
pull
Entries 88
Mean −3173
Std Dev 0

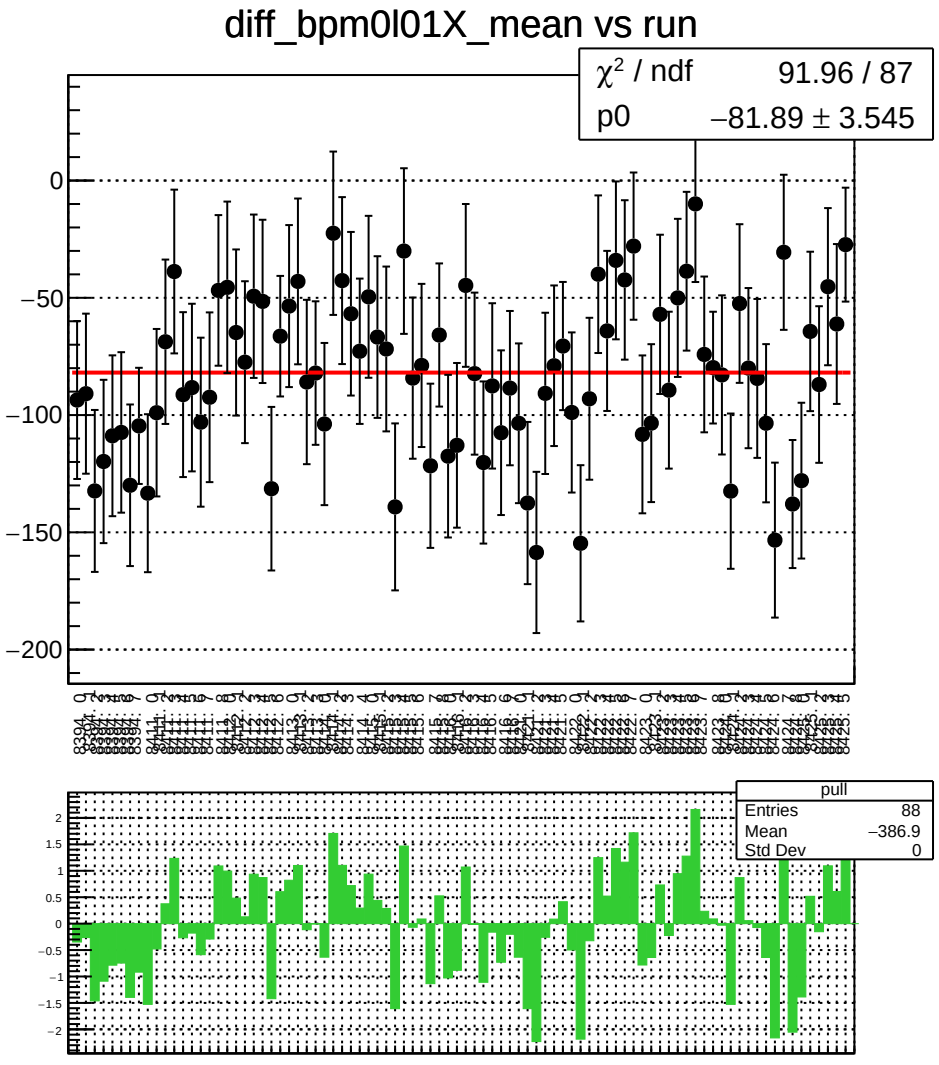

pull1D
Entries 88
Mean 0.002409
Std Dev 1.061

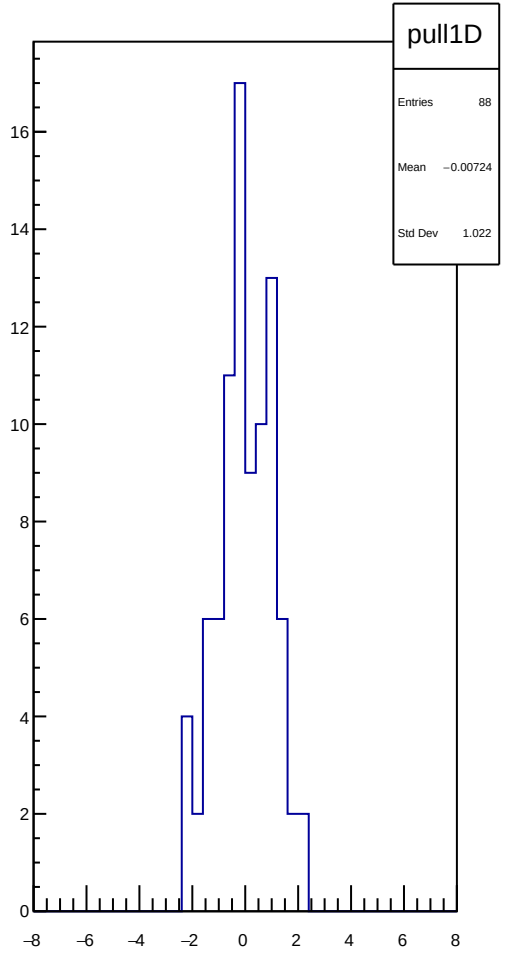

diff_bpm0i01aX_rms vs run
χ² / ndf 8741 / 87
p0 1529 ± 1.178
1700
1600
1500
1400
1300
1200
1100
1000

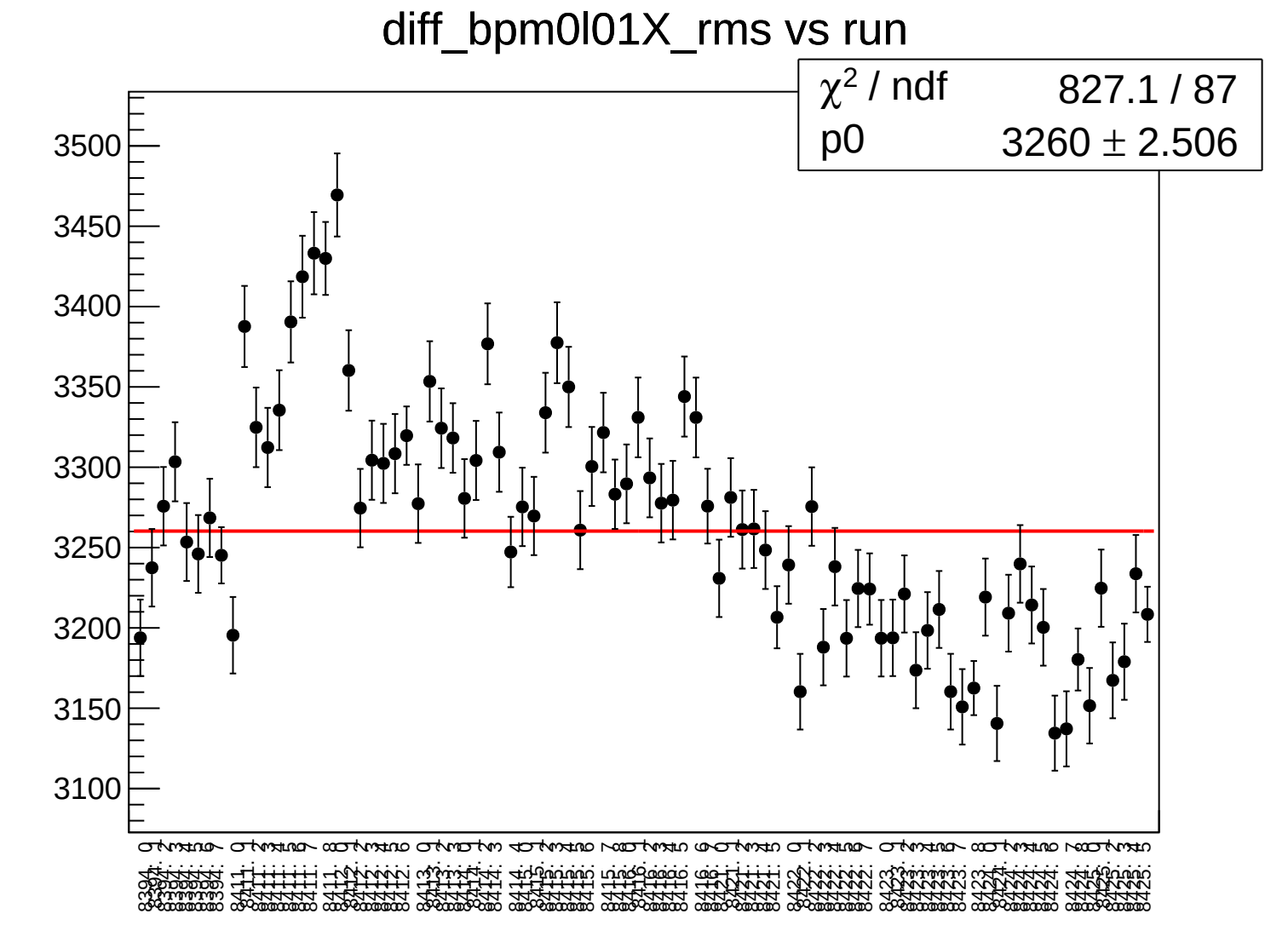

diff_bpm0i01aY_mean vs run
χ² / ndf 105.5 / 87
p0 42.41 ± 1.47
pull
Entries 88
Mean −1.809e+04
Std Dev 0

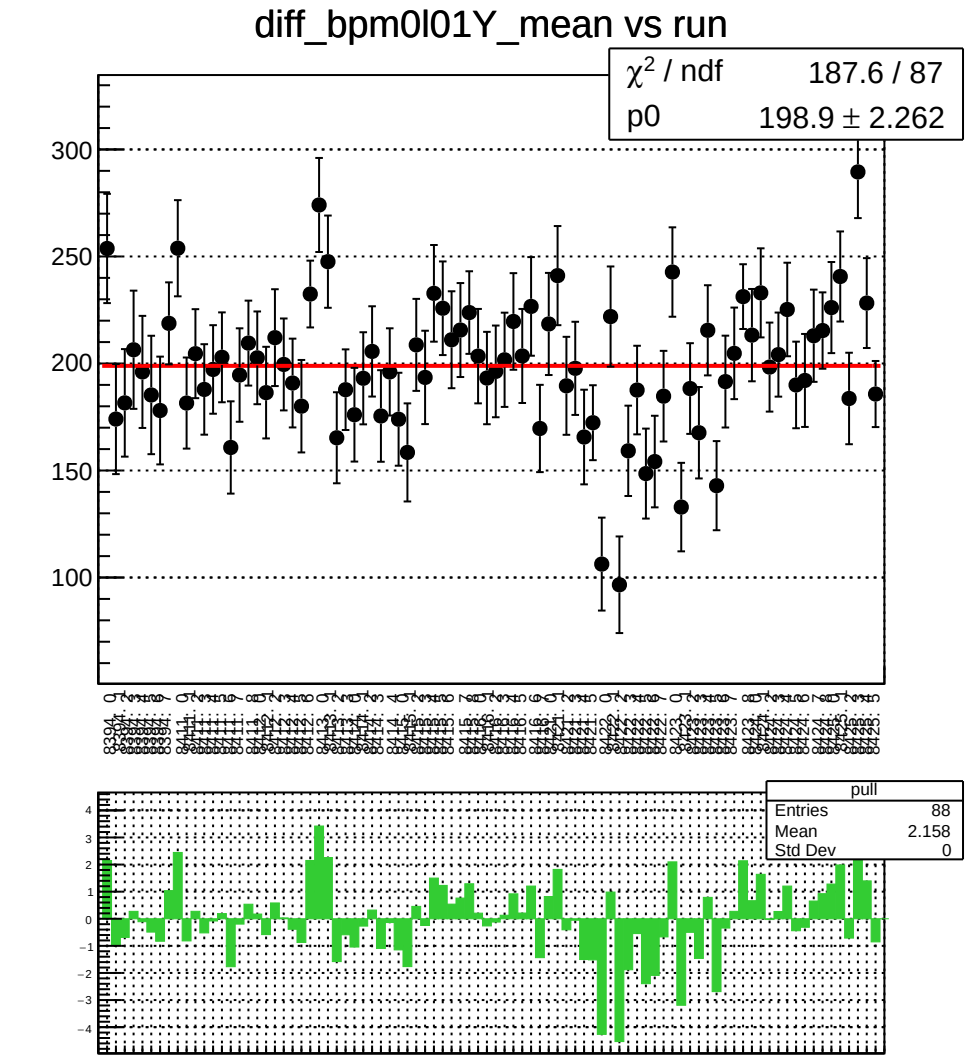

pull1D
Entries 88
Mean 0.0005097
Std Dev 1.095

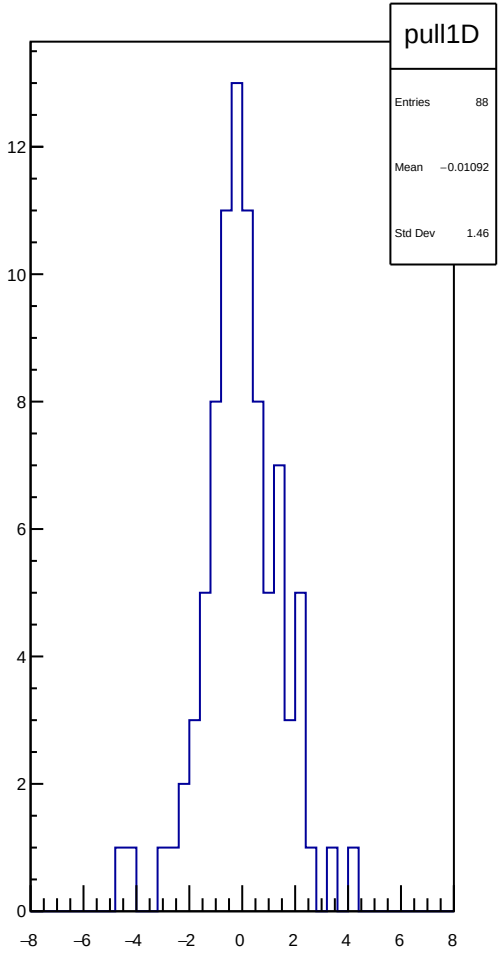

diff_bpm0i01aY_rms vs run
χ² / ndf 2440 / 87
p0 1352 ± 1.04
1450
1400
1350
1300
1250
1200
1150
1100

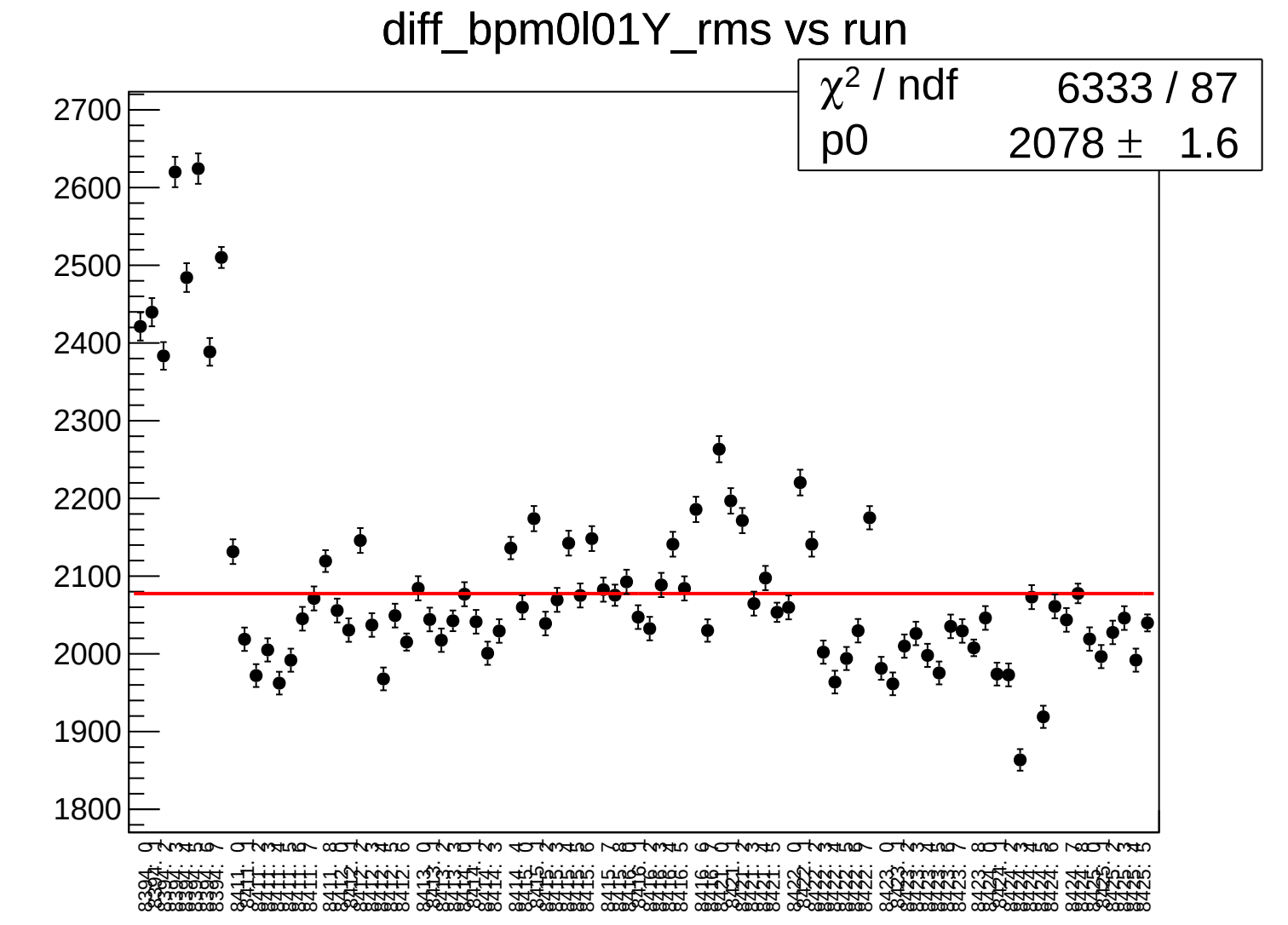

diff_bpm0l01X_mean vs run
χ² / ndf 91.96 / 87
p0 −81.89 ± 3.545
0
−50
−100
−150
−200
pull
Entries 88
Mean −386.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

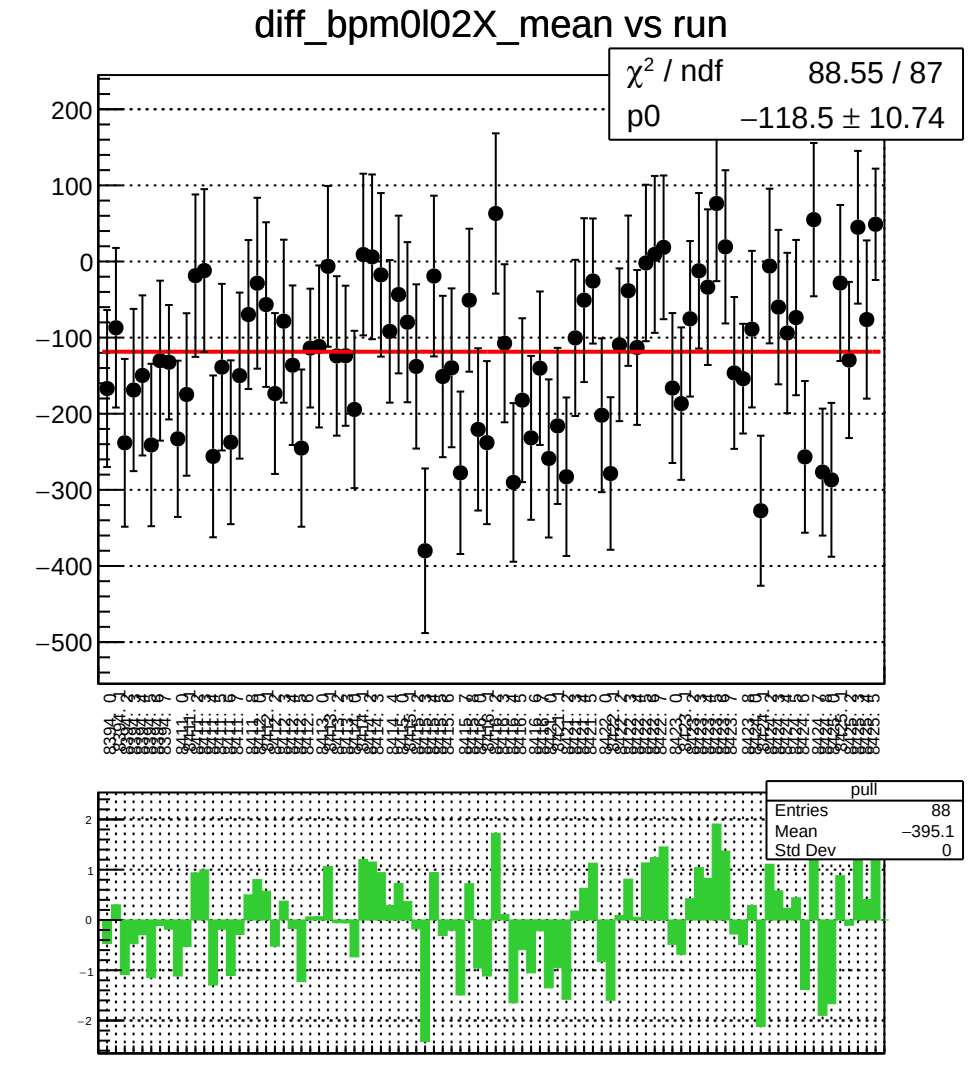

pull1D
Entries 88
Mean −0.00724
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

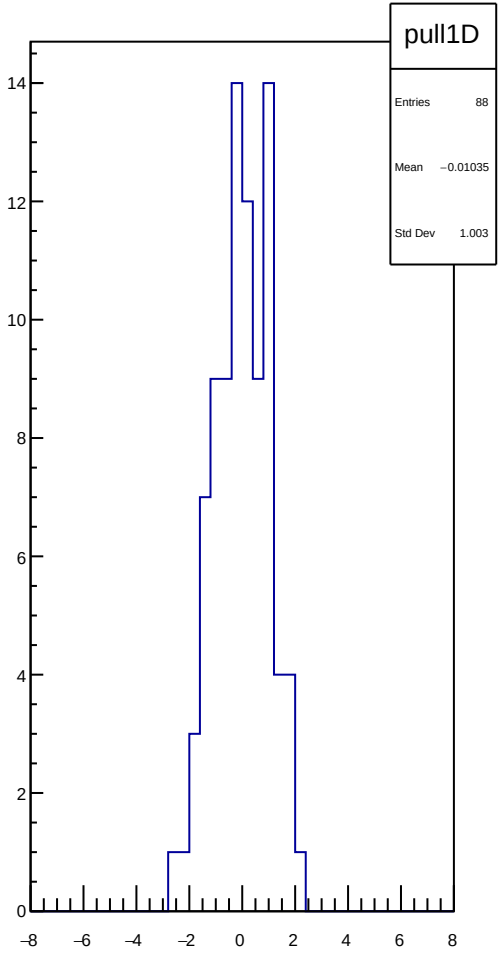

diff_bpm0l01X_rms vs run
χ^2 / ndf 827.1 / 87
p0 3260 ± 2.506
3500
3450
3400
3350
3300
3250
3200
3150
3100

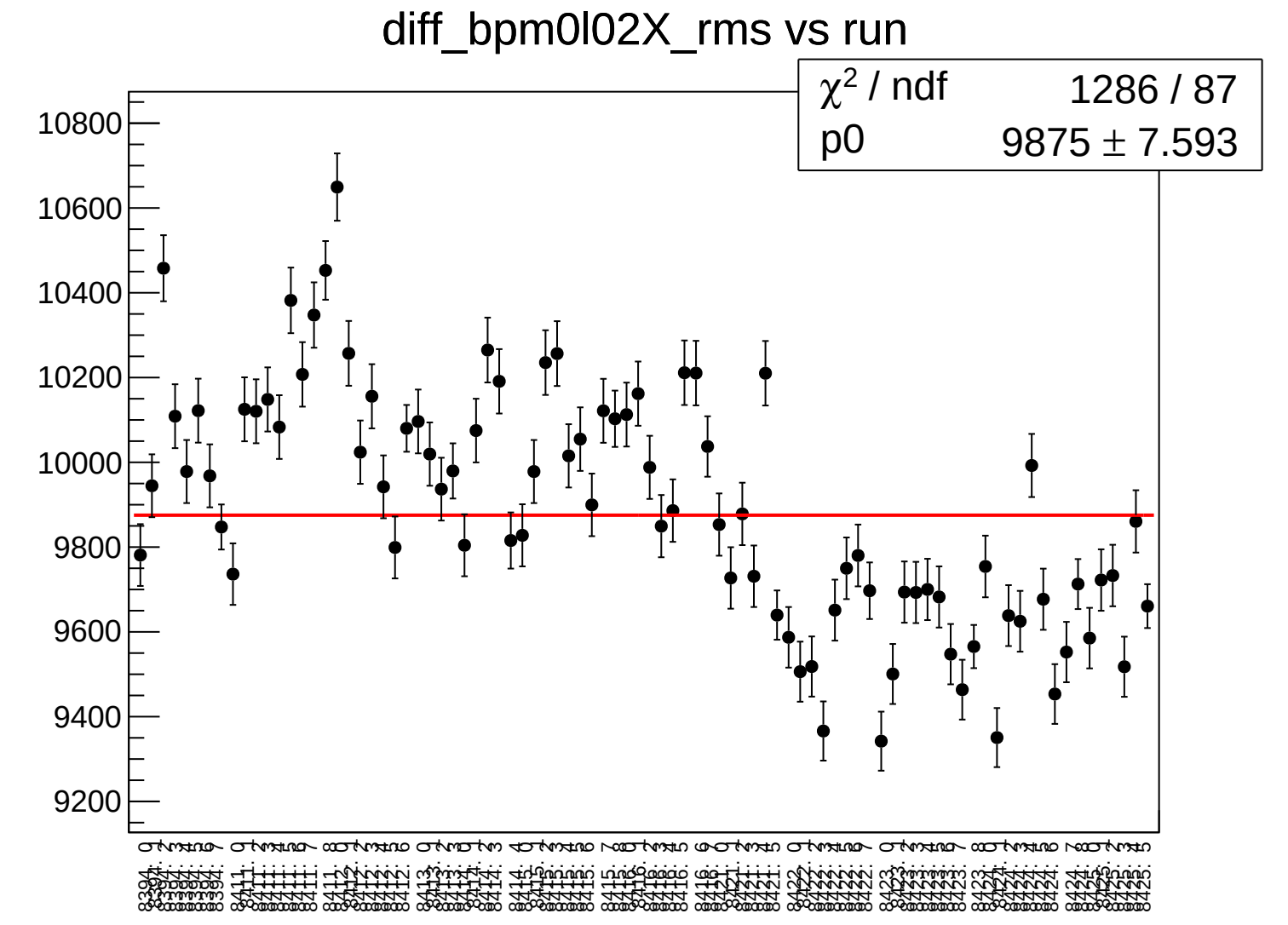

diff_bpm0l01Y_mean vs run
χ² / ndf 187.6 / 87
p0 198.9 ± 2.262
300
250
200
150
100
pull
Entries 88
Mean 2.158
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

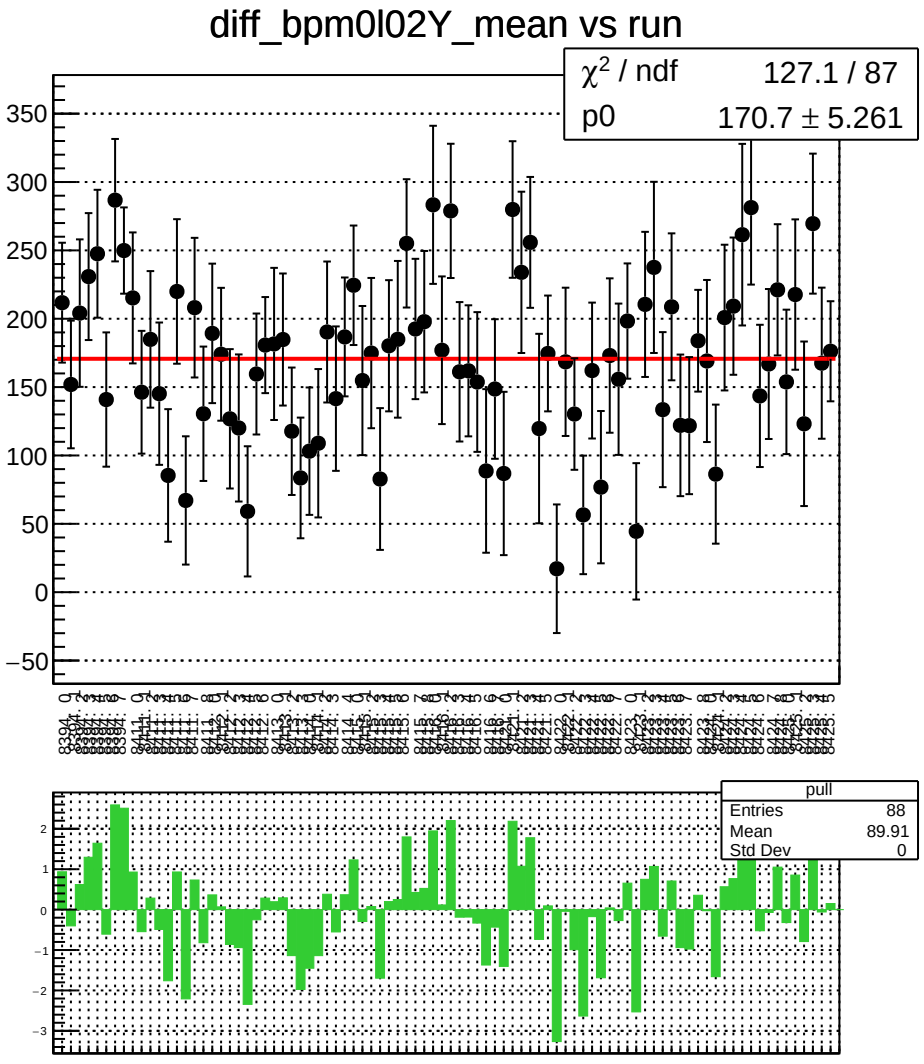

pull1D
Entries 88
Mean −0.01092
Std Dev 1.46
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

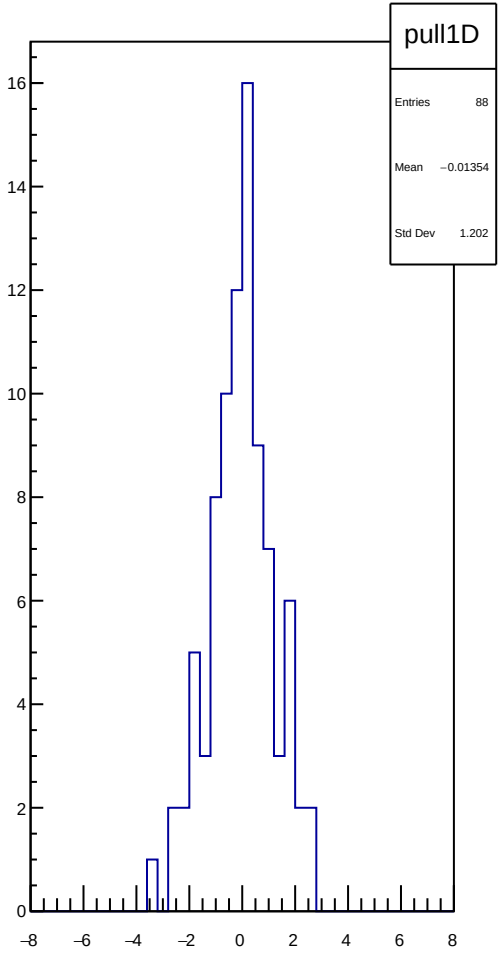

diff_bpm0l01Y_rms vs run
χ² / ndf 6333 / 87
p0 2078 ± 1.6
2700
2600
2500
2400
2300
2200
2100
2000
1900
1800

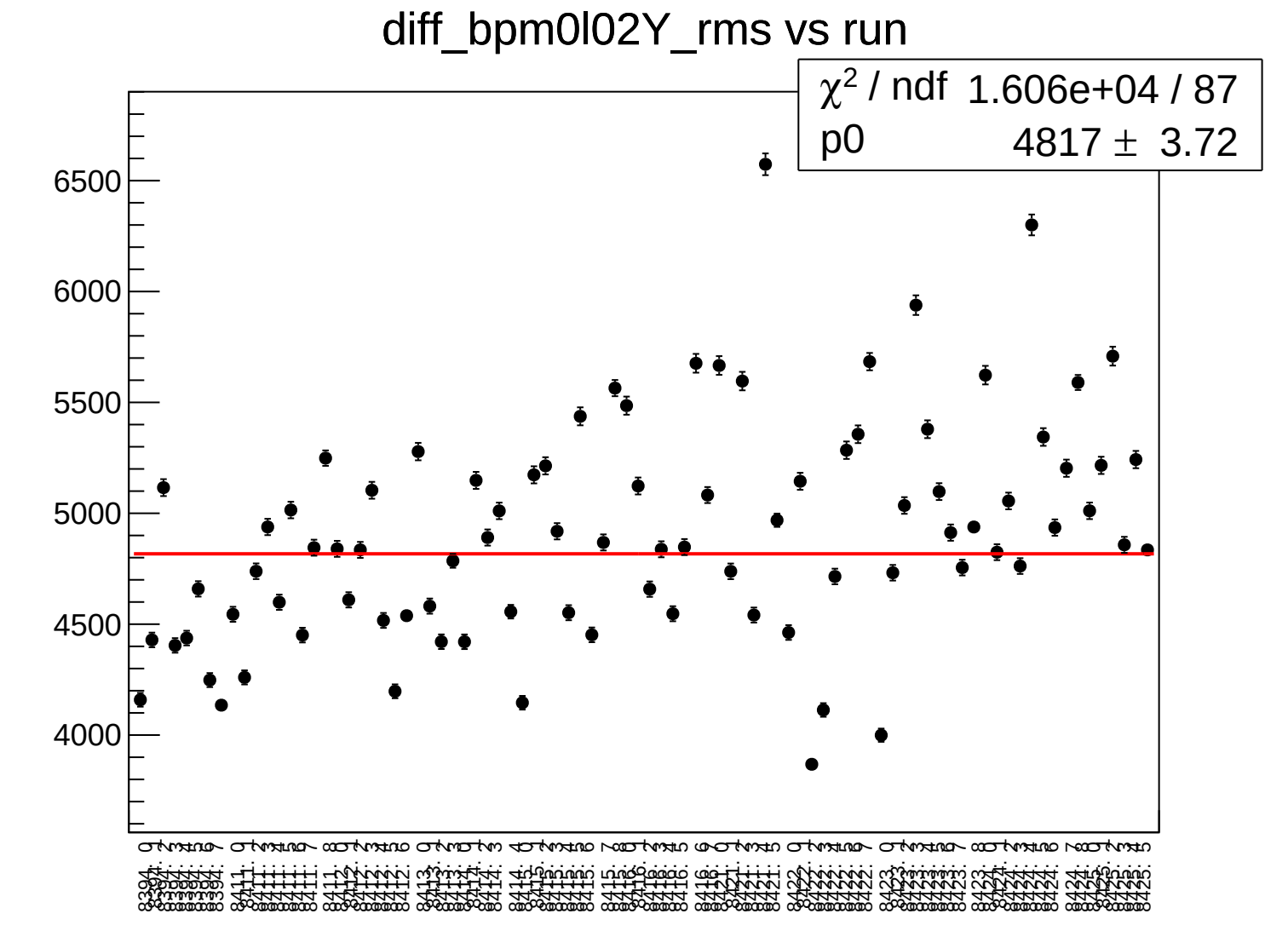

diff_bpm0l02X_mean vs run
χ² / ndf 88.55 / 87
p0 −118.5 ± 10.74
pull
Entries 88
Mean −395.1
Std Dev 0

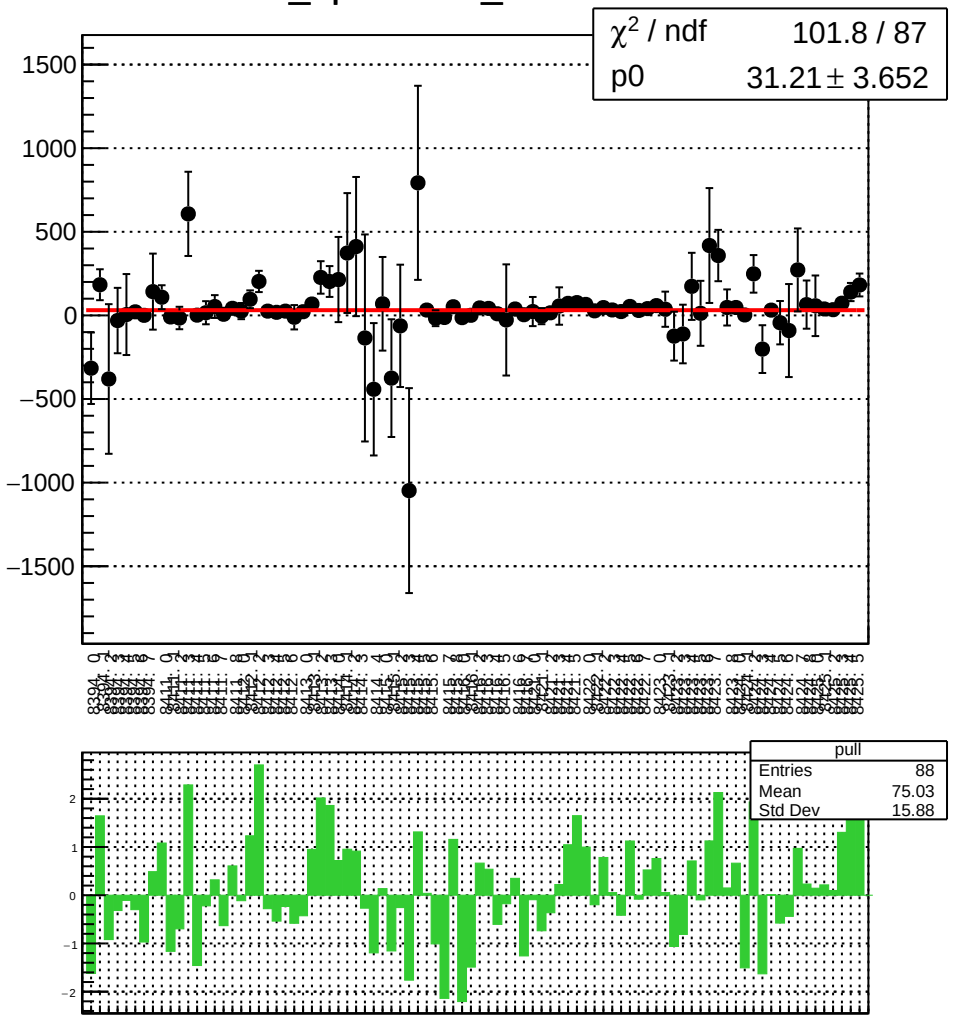

pull1D
Entries 88
Mean −0.01035
Std Dev 1.003

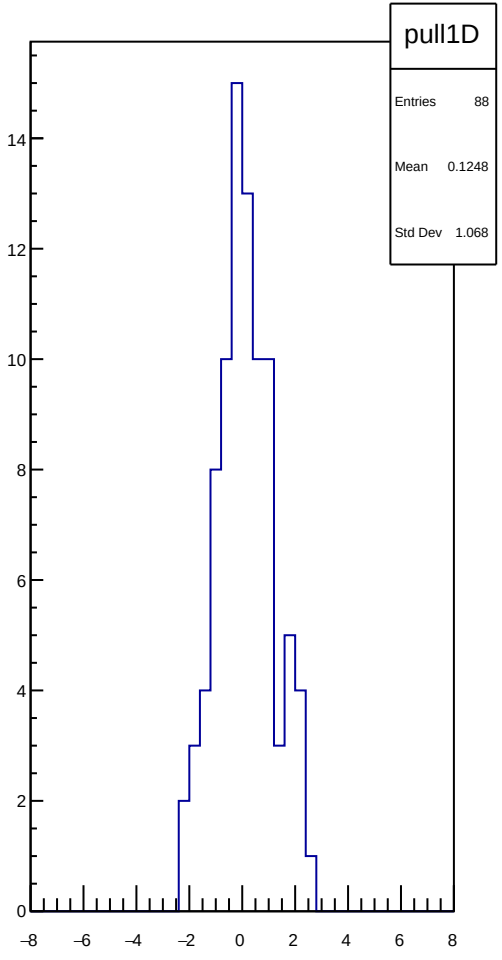

diff_bpm0l02X_rms vs run
χ^2 / ndf 1286 / 87
p0 9875 ± 7.593
10800
10600
10400
10200
10000
9800
9600
9400
9200

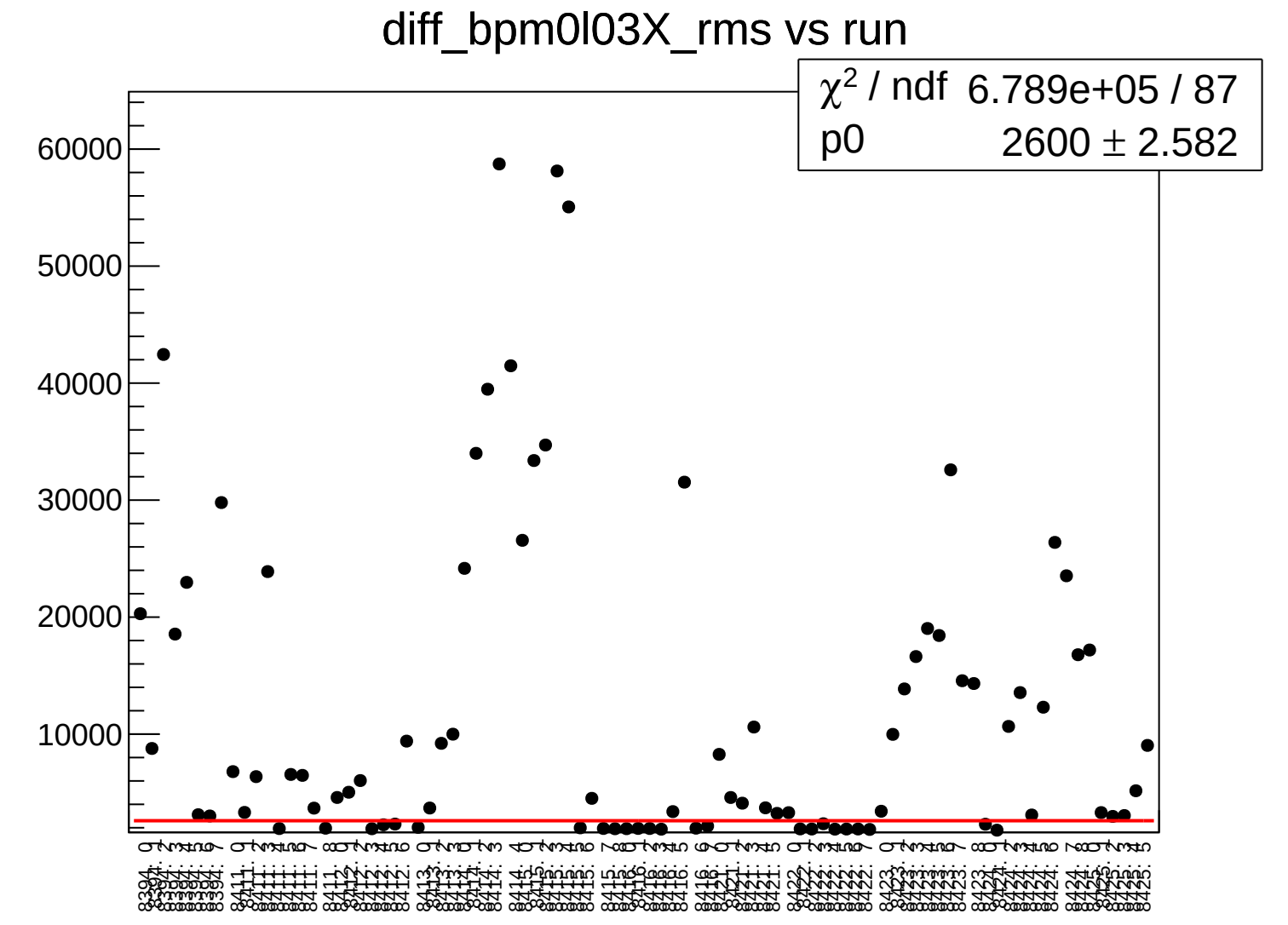

diff_bpm0l02Y_mean vs run
χ^2 / ndf 127.1 / 87
p0 170.7 ± 5.261
pull
Entries 88
Mean 89.91
Std Dev 0

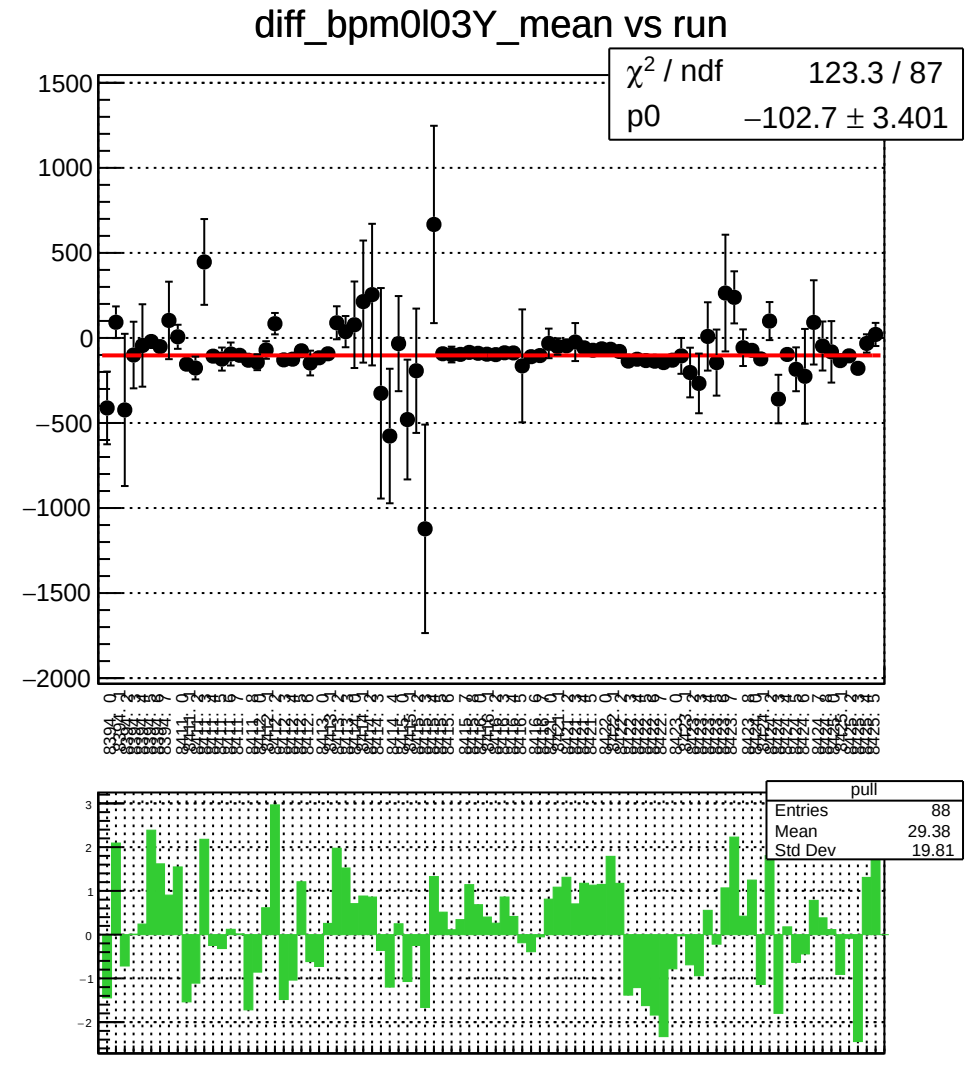

pull1D
Entries 88
Mean −0.01354
Std Dev 1.202

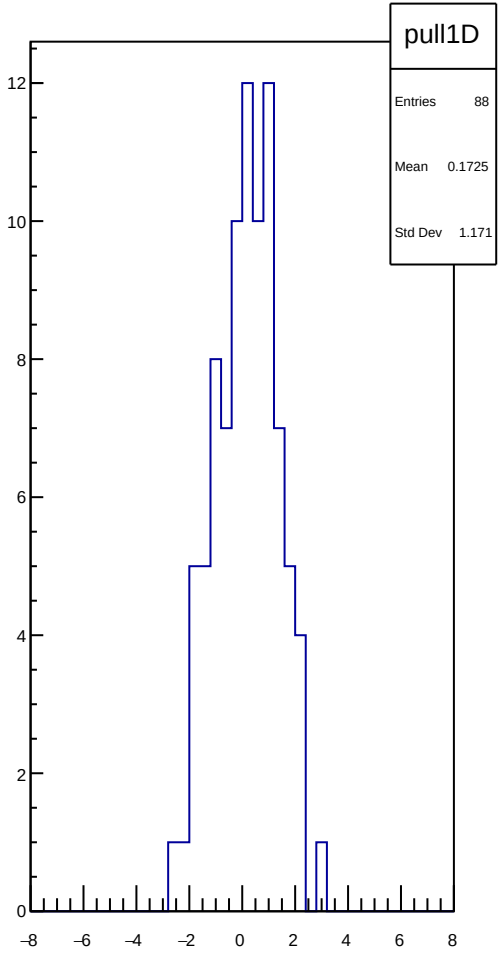

diff_bpm0l02Y_rms vs run
χ² / ndf 1.606e+04 / 87
p0 4817 ± 3.72
6500
6000
5500
5000
4500
4000

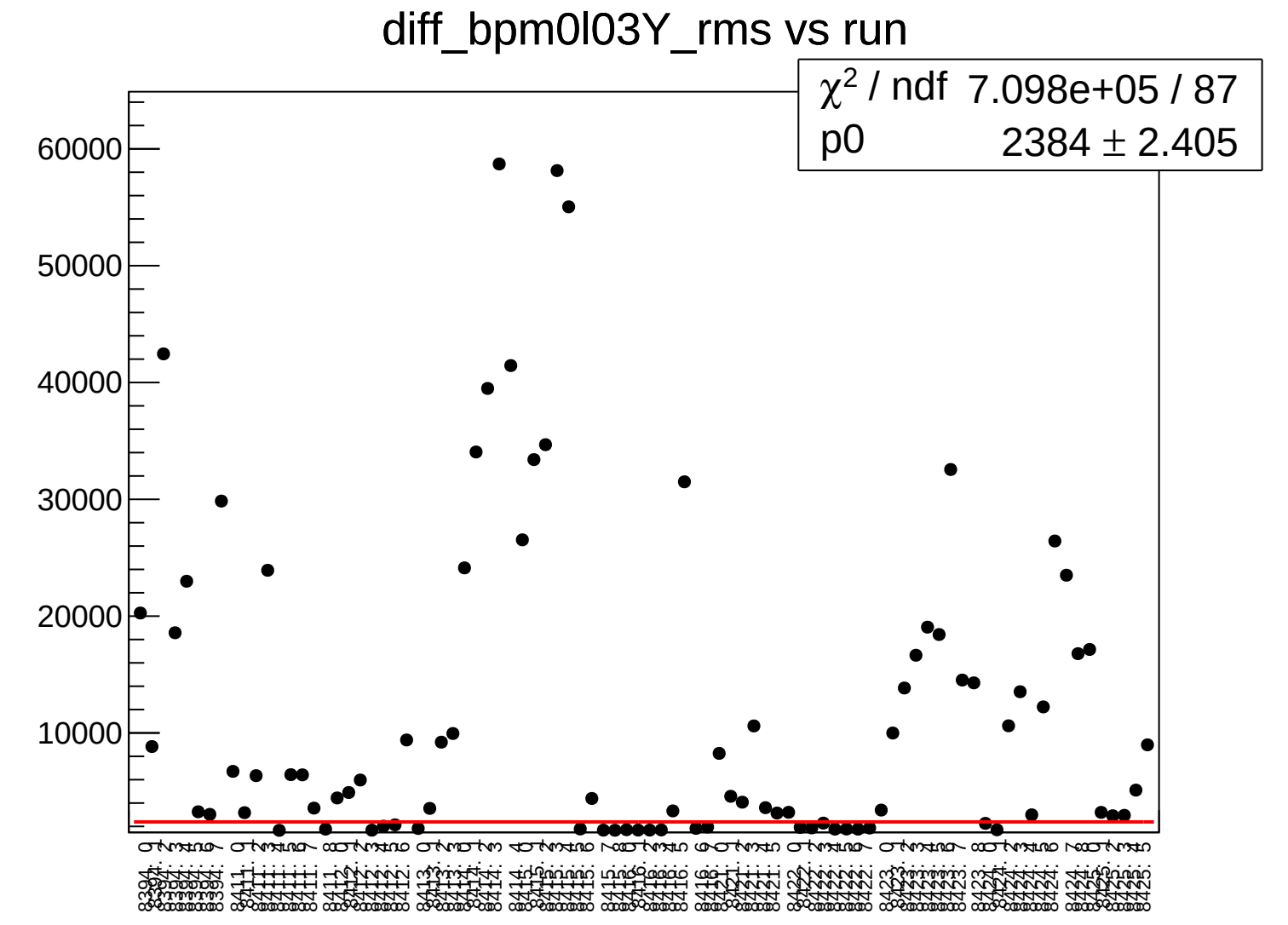

diff_bpm0l03X_mean vs run
χ^2 / ndf 101.8 / 87
p0 31.21 ± 3.652
pull
Entries 88
Mean 75.03
Std Dev 15.88

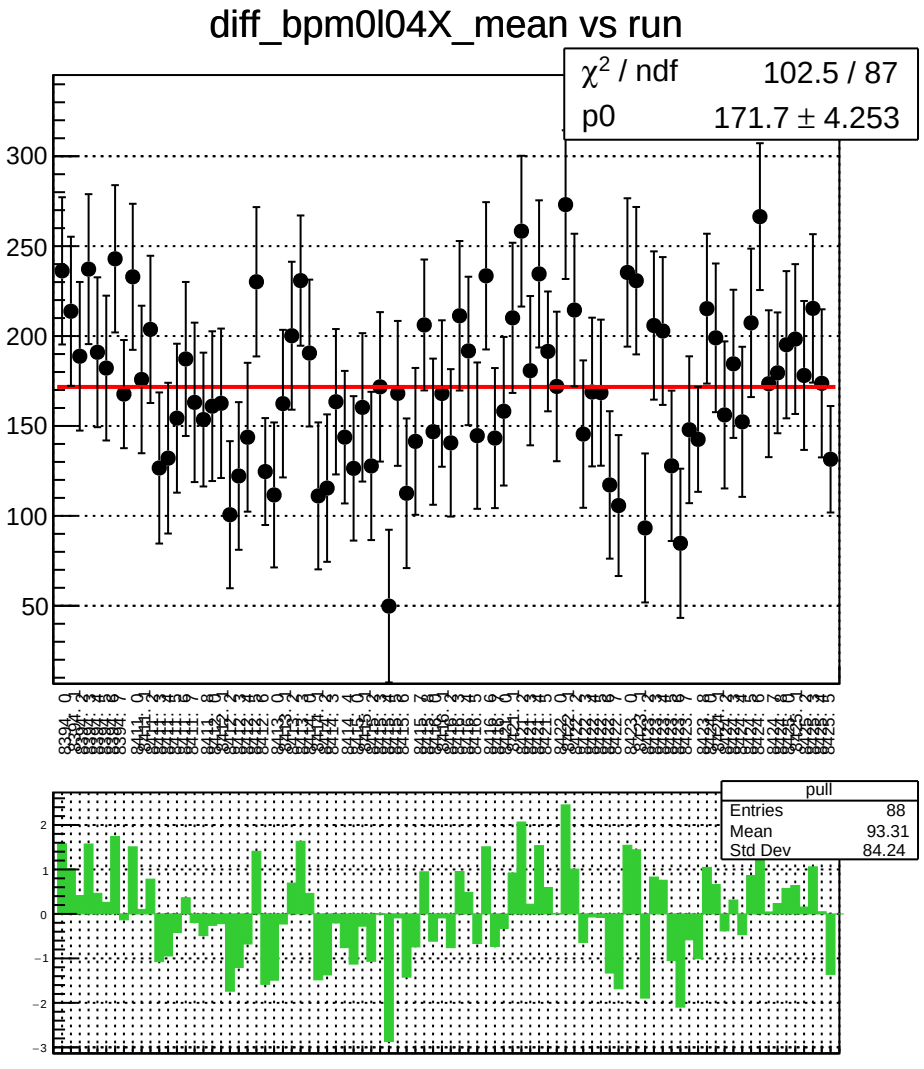

pull1D
Entries 88
Mean 0.1248
Std Dev 1.068

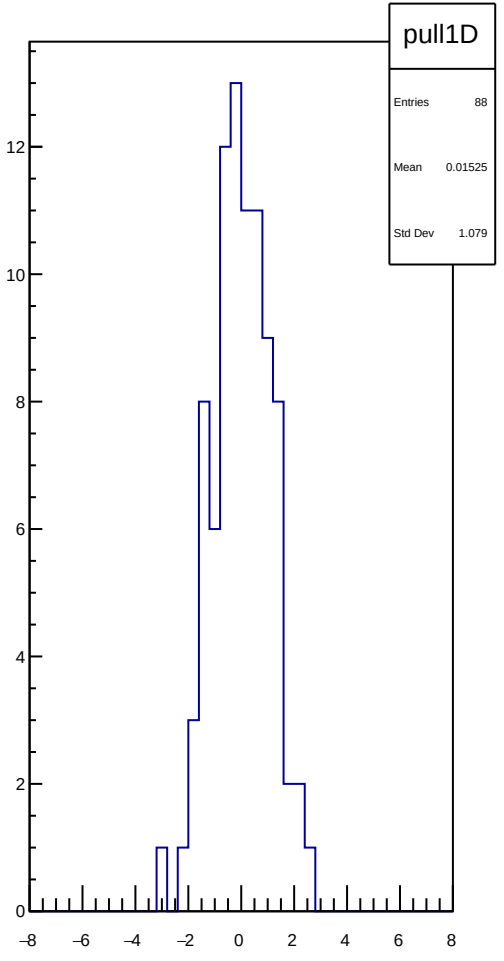

diff_bpm0l03X_rms vs run
χ^2 / ndf 6.789e+05 / 87
p0 2600 ± 2.582
60000
50000
40000
30000
20000
10000

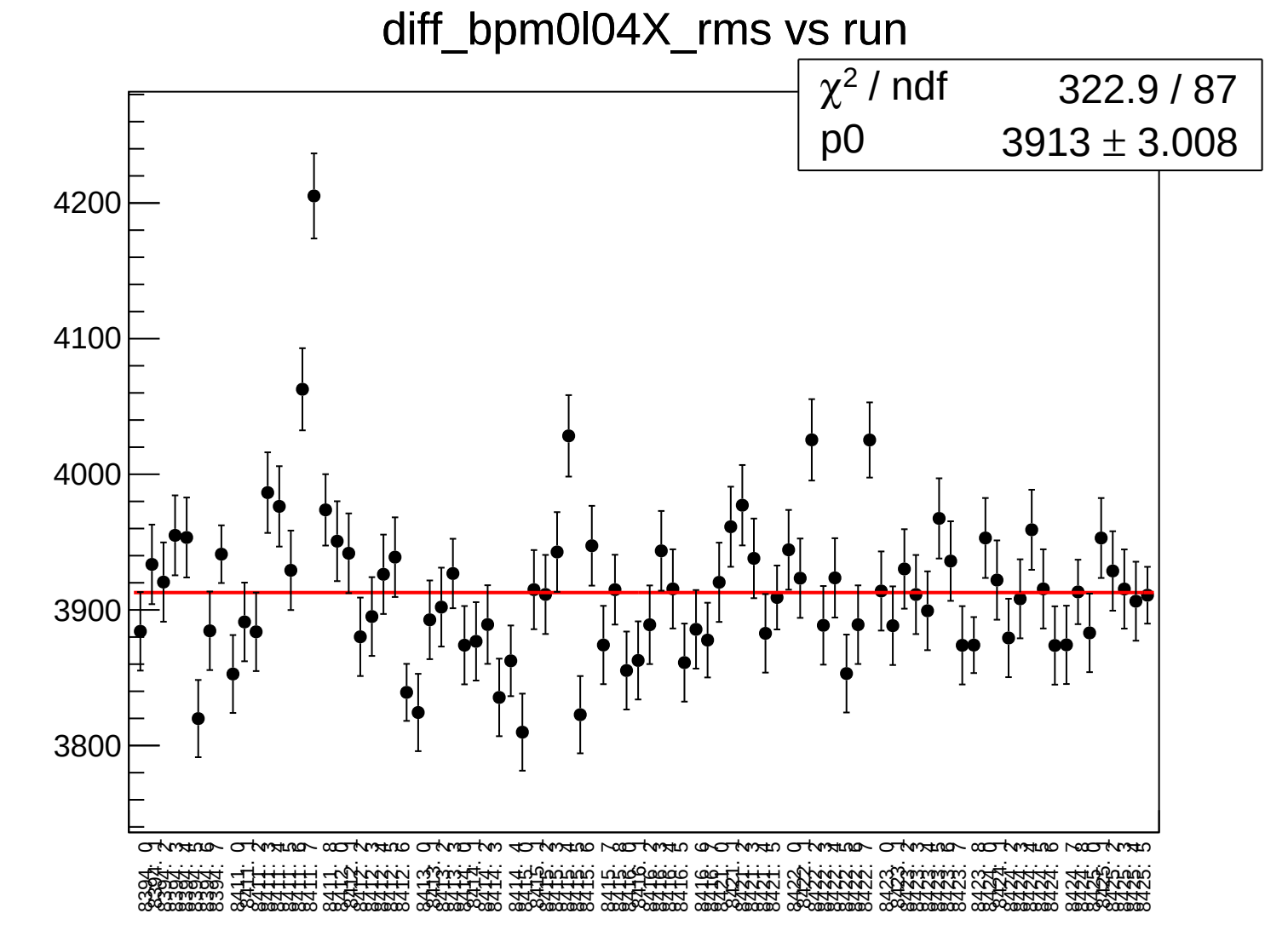

diff_bpm0l03Y_mean vs run
χ² / ndf 123.3 / 87
p0 −102.7 ± 3.401
pull
Entries 88
Mean 29.38
Std Dev 19.81

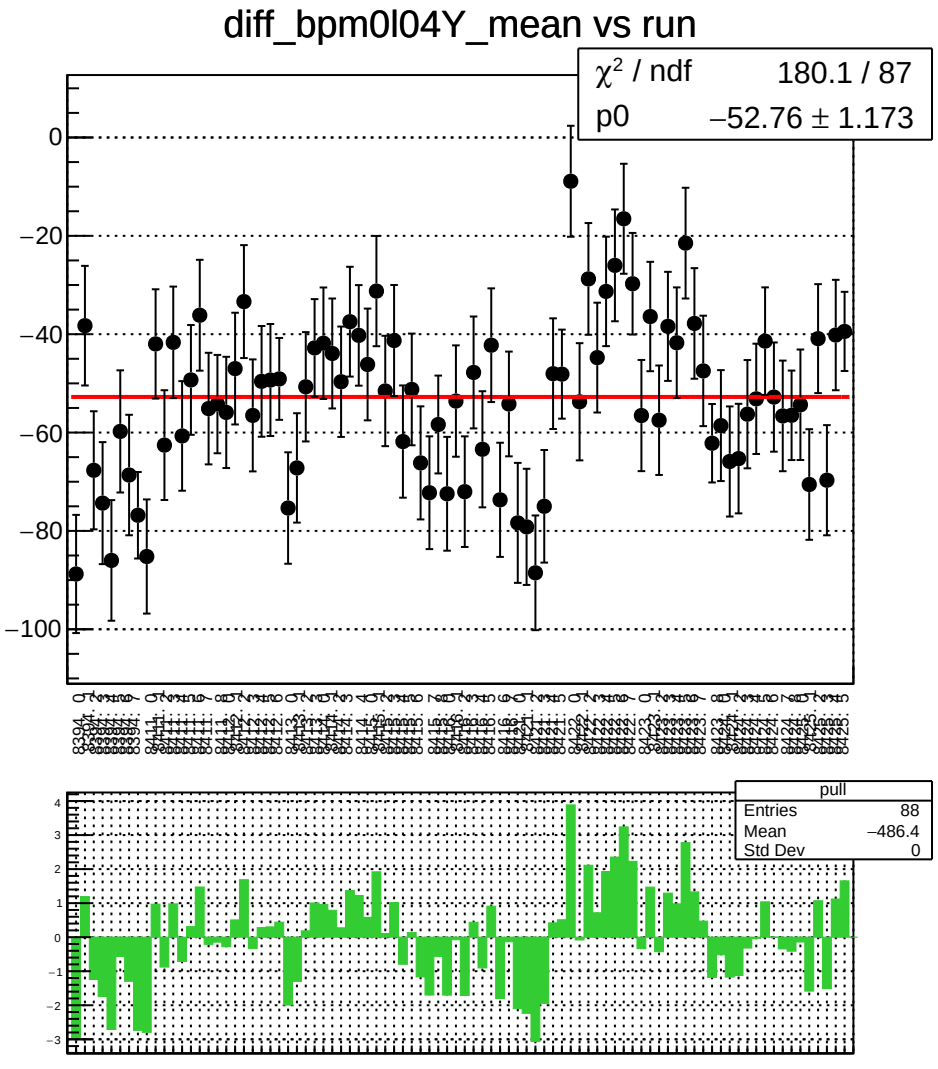

pull1D
Entries 88
Mean 0.1725
Std Dev 1.171

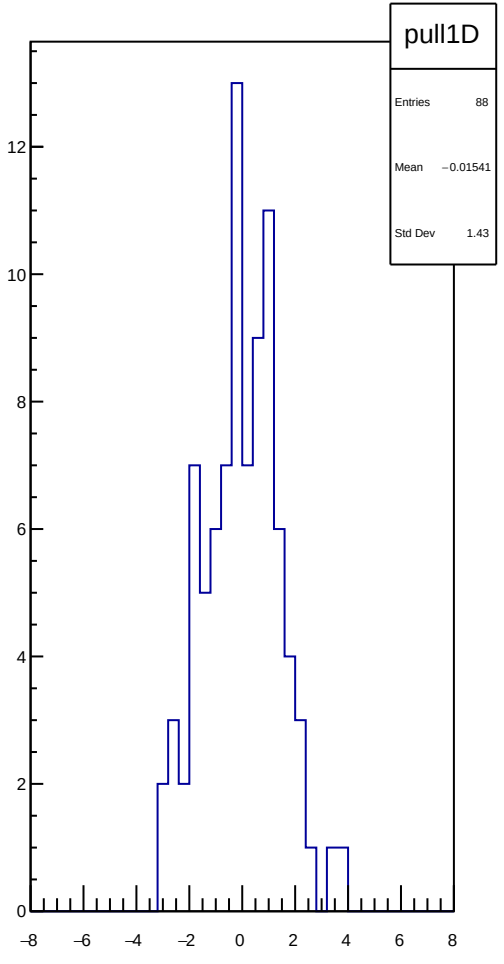

diff_bpm0l03Y_rms vs run
χ² / ndf 7.098e+05 / 87
p0 2384 ± 2.405
60000
50000
40000
30000
20000
10000

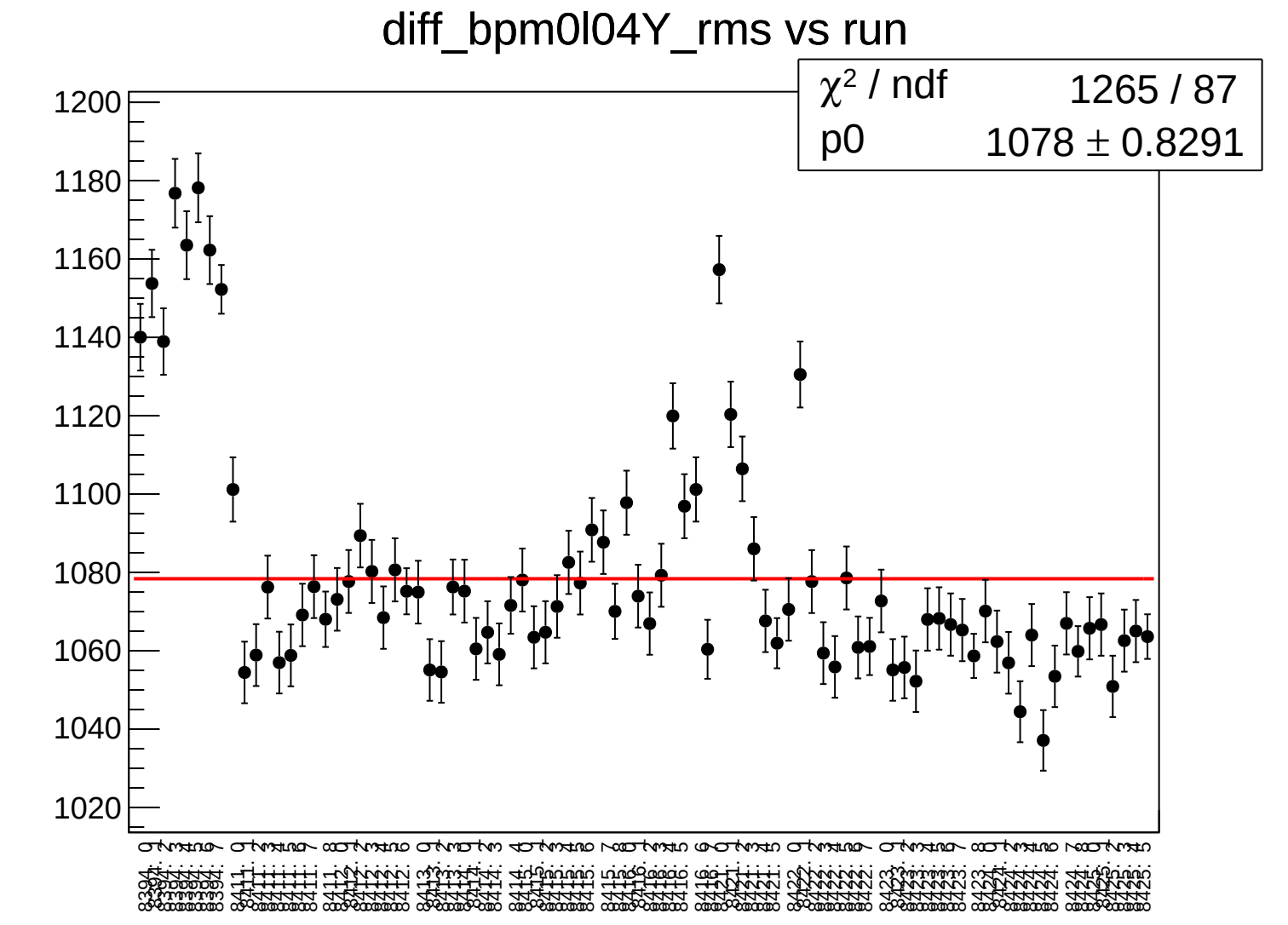

diff_bpm0l04X_mean vs run
χ^2 / ndf 102.5 / 87
p0 171.7 ± 4.253
300
250
200
150
100
50
pull
Entries 88
Mean 93.31
Std Dev 84.24
2
1
0
−1
−2
−3

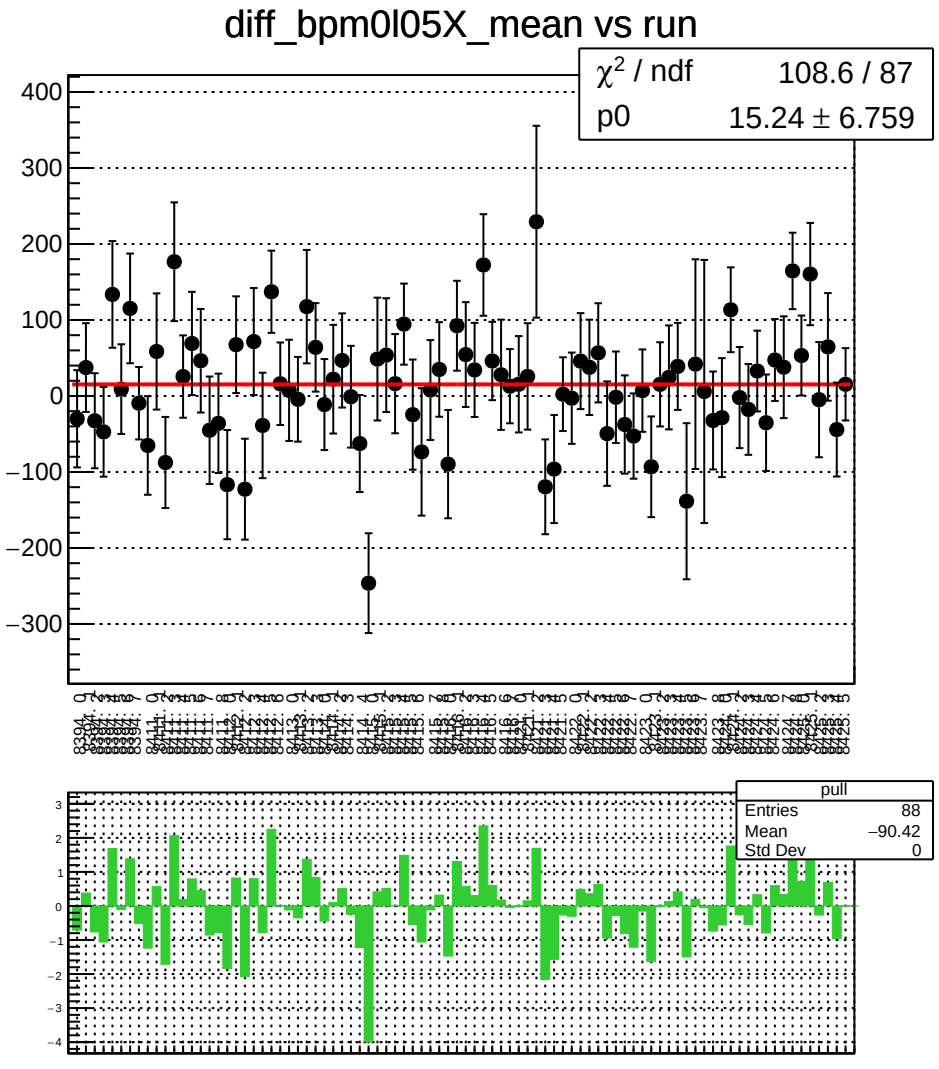

pull1D
Entries 88
Mean 0.01525
Std Dev 1.079
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

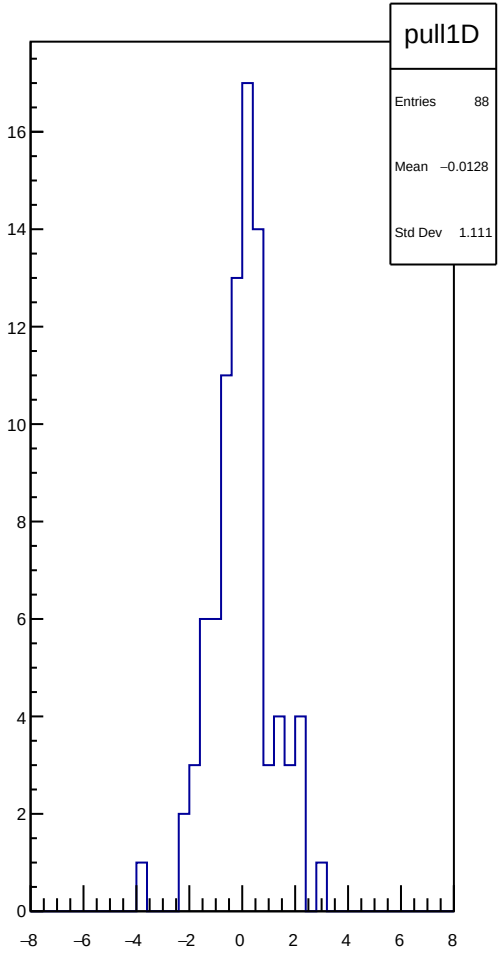

diff_bpm0l04X_rms vs run
χ² / ndf 322.9 / 87
p0 3913 ± 3.008
4200
4100
4000
3900
3800

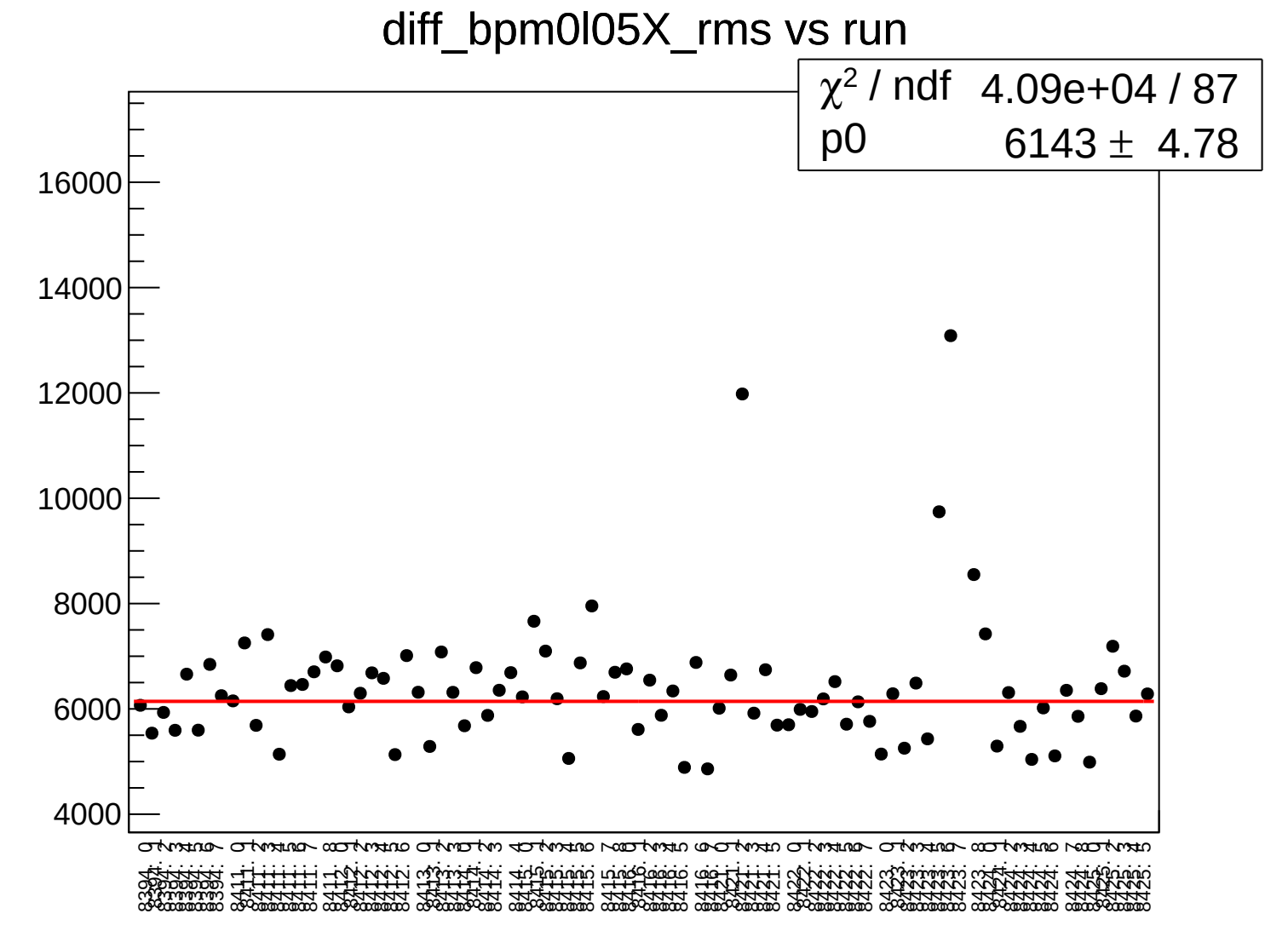

diff_bpm0l04Y_mean vs run
χ² / ndf 180.1 / 87
p0 −52.76 ± 1.173
pull
Entries 88
Mean −486.4
Std Dev 0

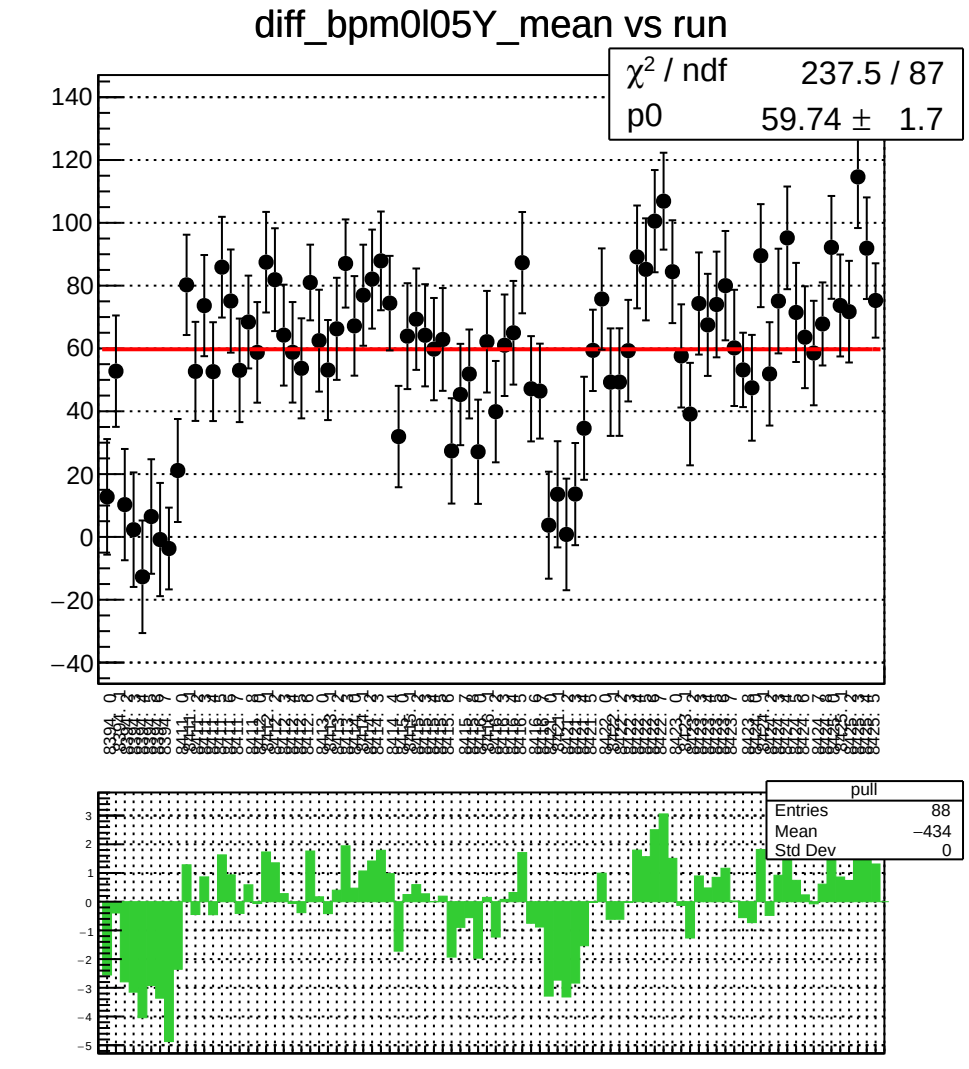

pull1D
Entries 88
Mean −0.01541
Std Dev 1.43

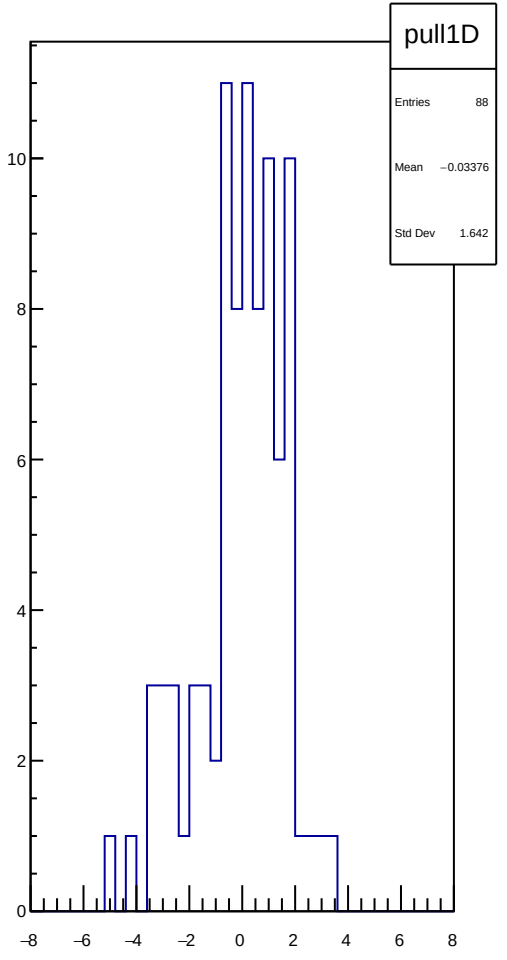

diff_bpm0l04Y_rms vs run
χ² / ndf 1265 / 87
p0 1078 ± 0.8291
1200
1180
1160
1140
1120
1100
1080
1060
1040
1020

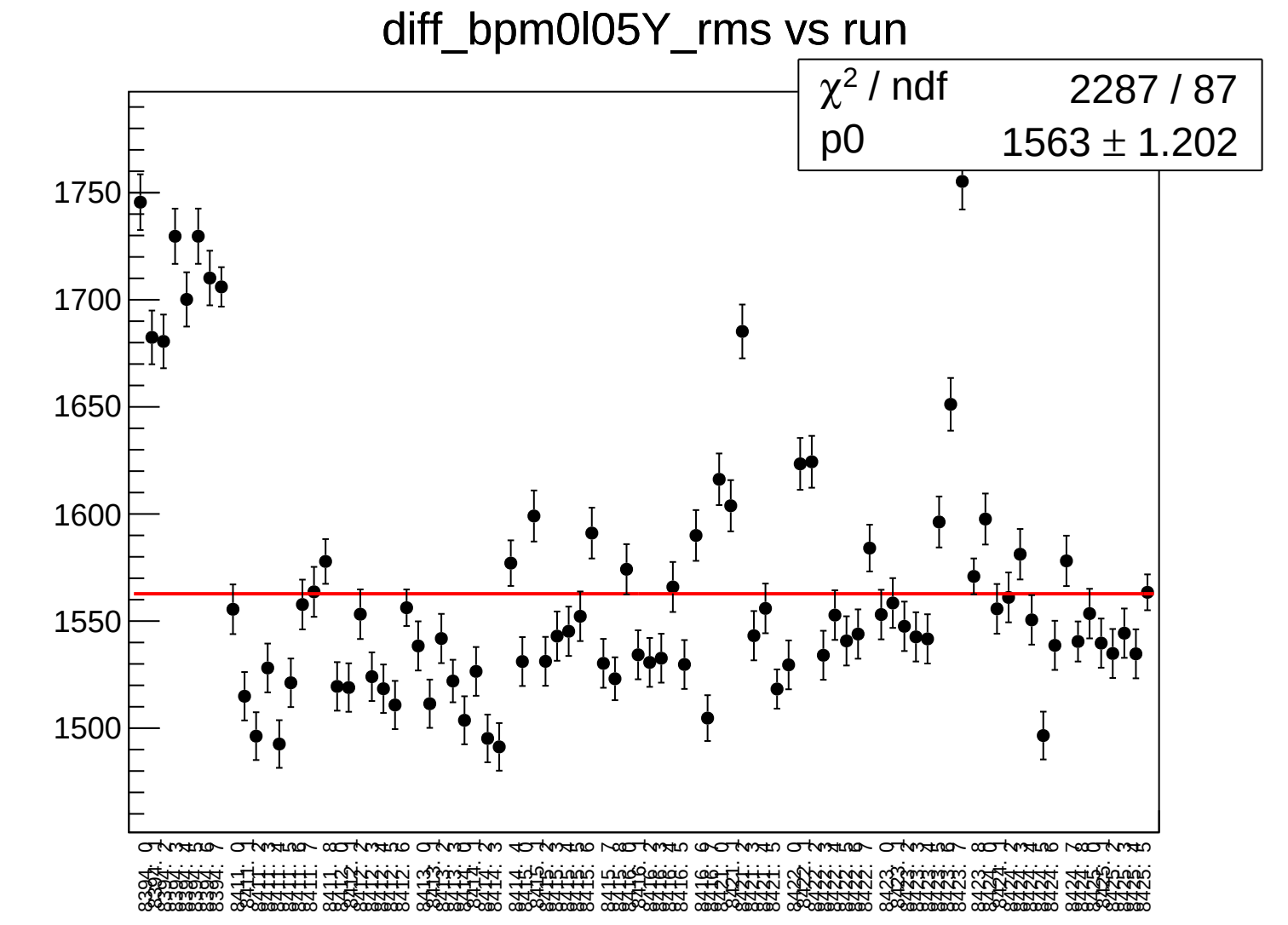

diff_bpm0l05X_mean vs run
χ^2 / ndf 108.6 / 87
p0 15.24 ± 6.759
pull
Entries 88
Mean −90.42
Std Dev 0

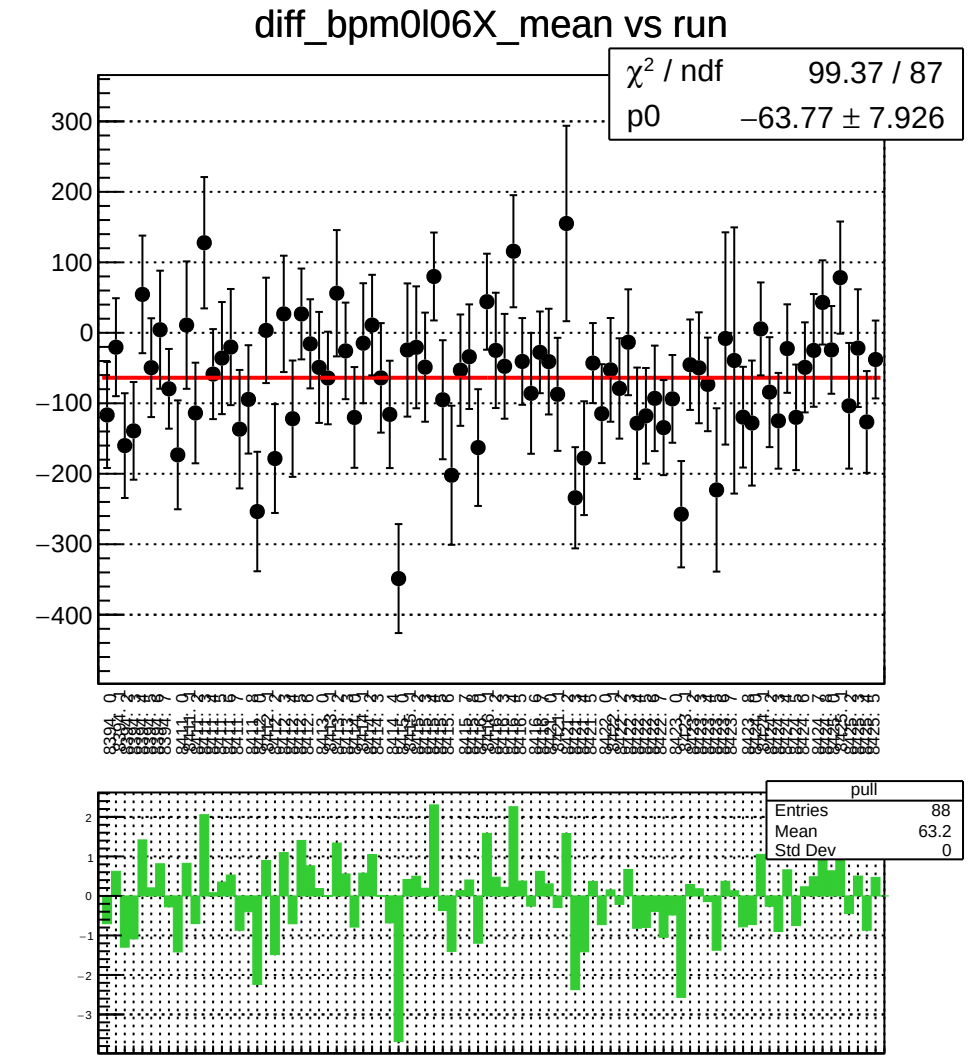

pull1D
Entries 88
Mean −0.0128
Std Dev 1.111

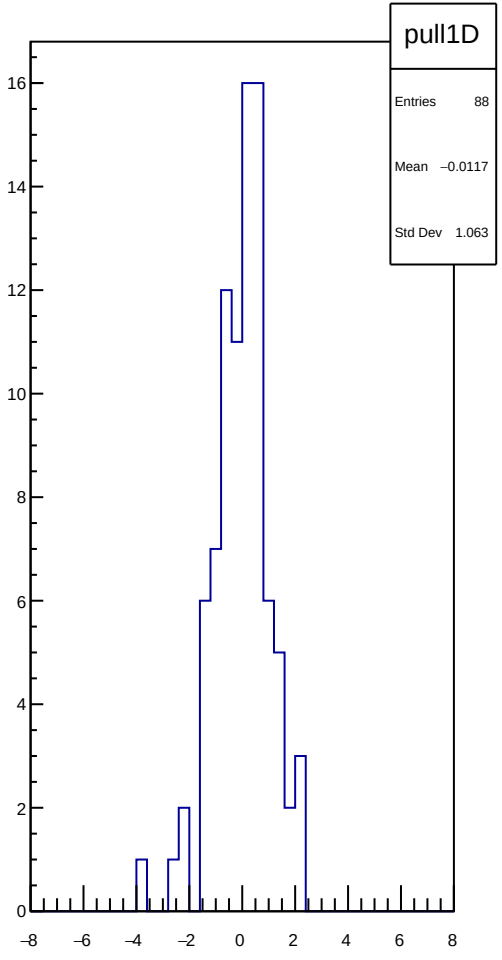

diff_bpm0l05X_rms vs run
χ² / ndf 4.09e+04 / 87
p0 6143 ± 4.78
16000
14000
12000
10000
8000
6000
4000

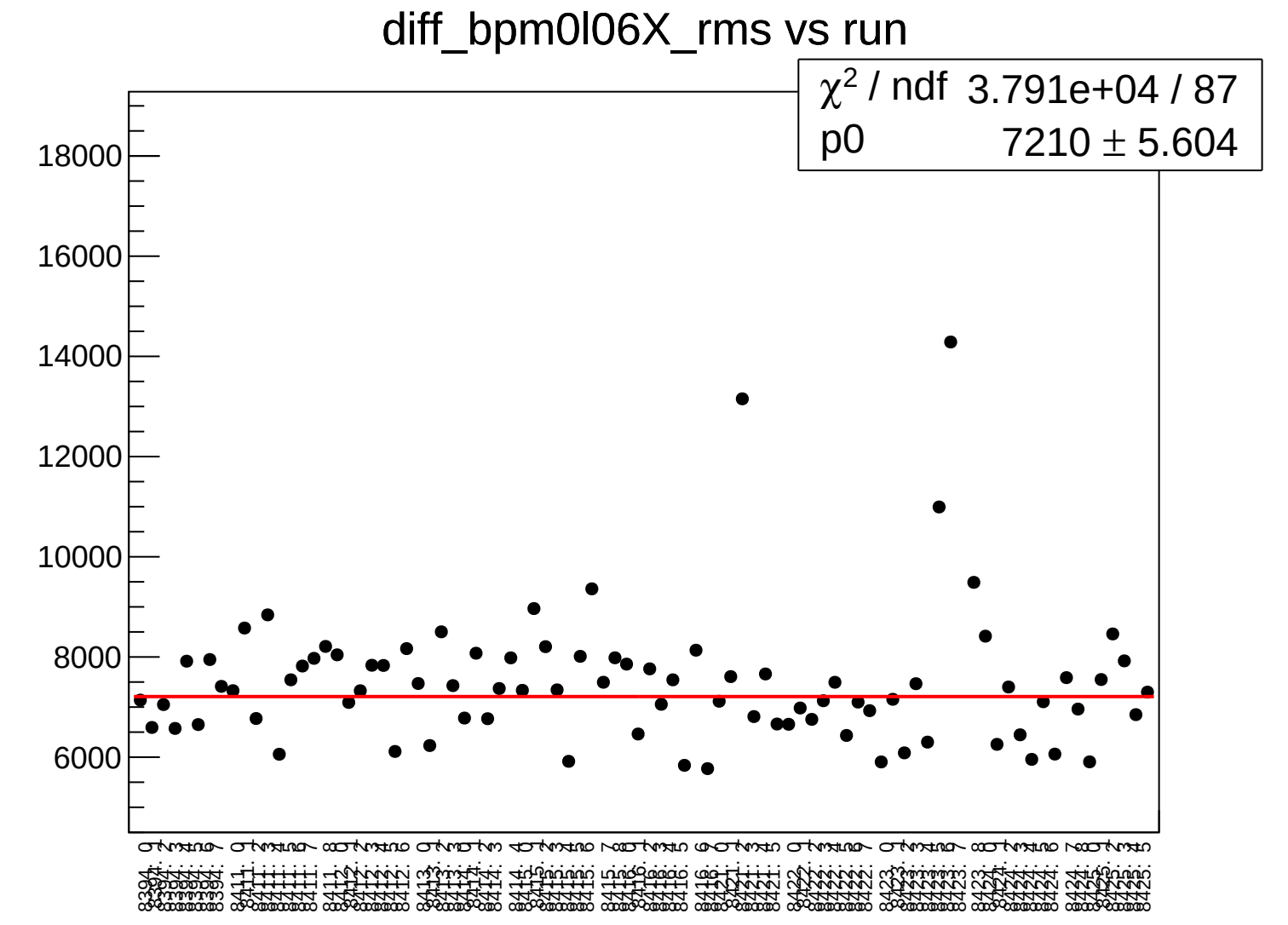

diff_bpm0l05Y_mean vs run
χ² / ndf 237.5 / 87
p0 59.74 ± 1.7
pull
Entries 88
Mean −434
Std Dev 0

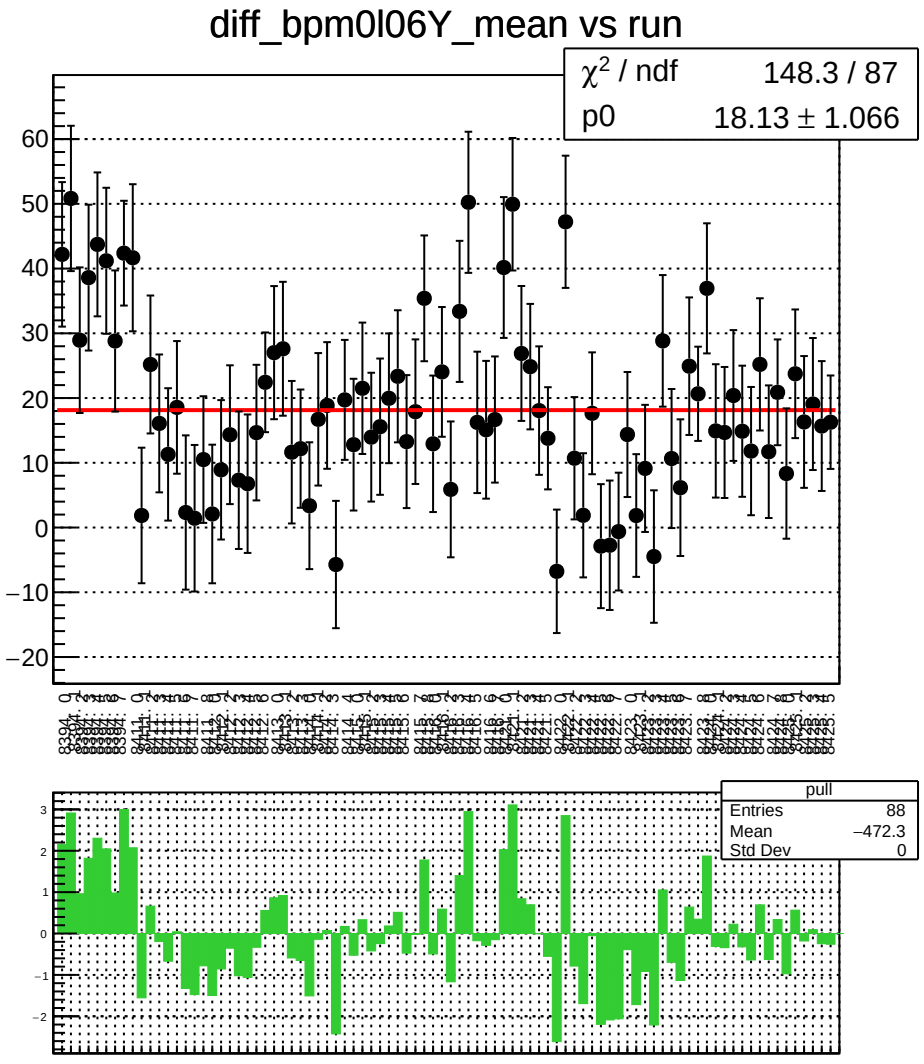

pull1D
Entries 88
Mean −0.03376
Std Dev 1.642

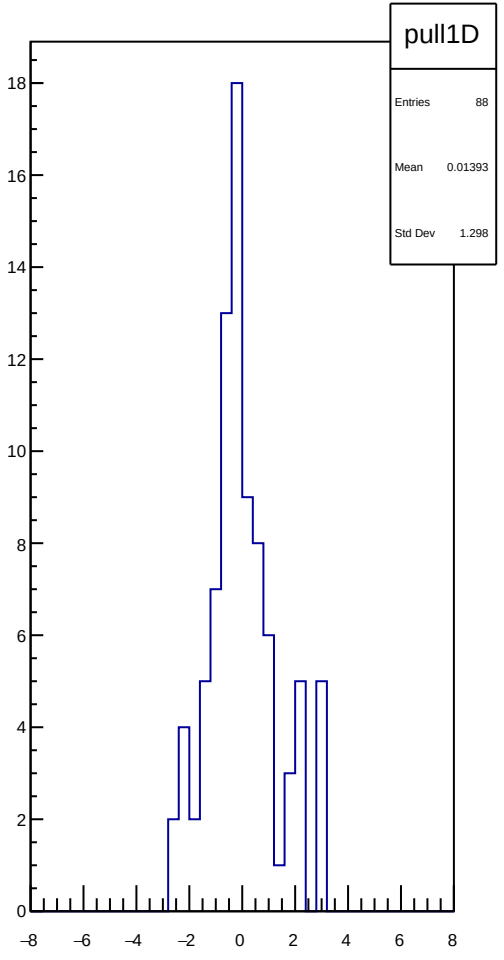

diff_bpm0l05Y_rms vs run
χ^2 / ndf 2287 / 87
p0 1563 ± 1.202
1750
1700
1650
1600
1550
1500

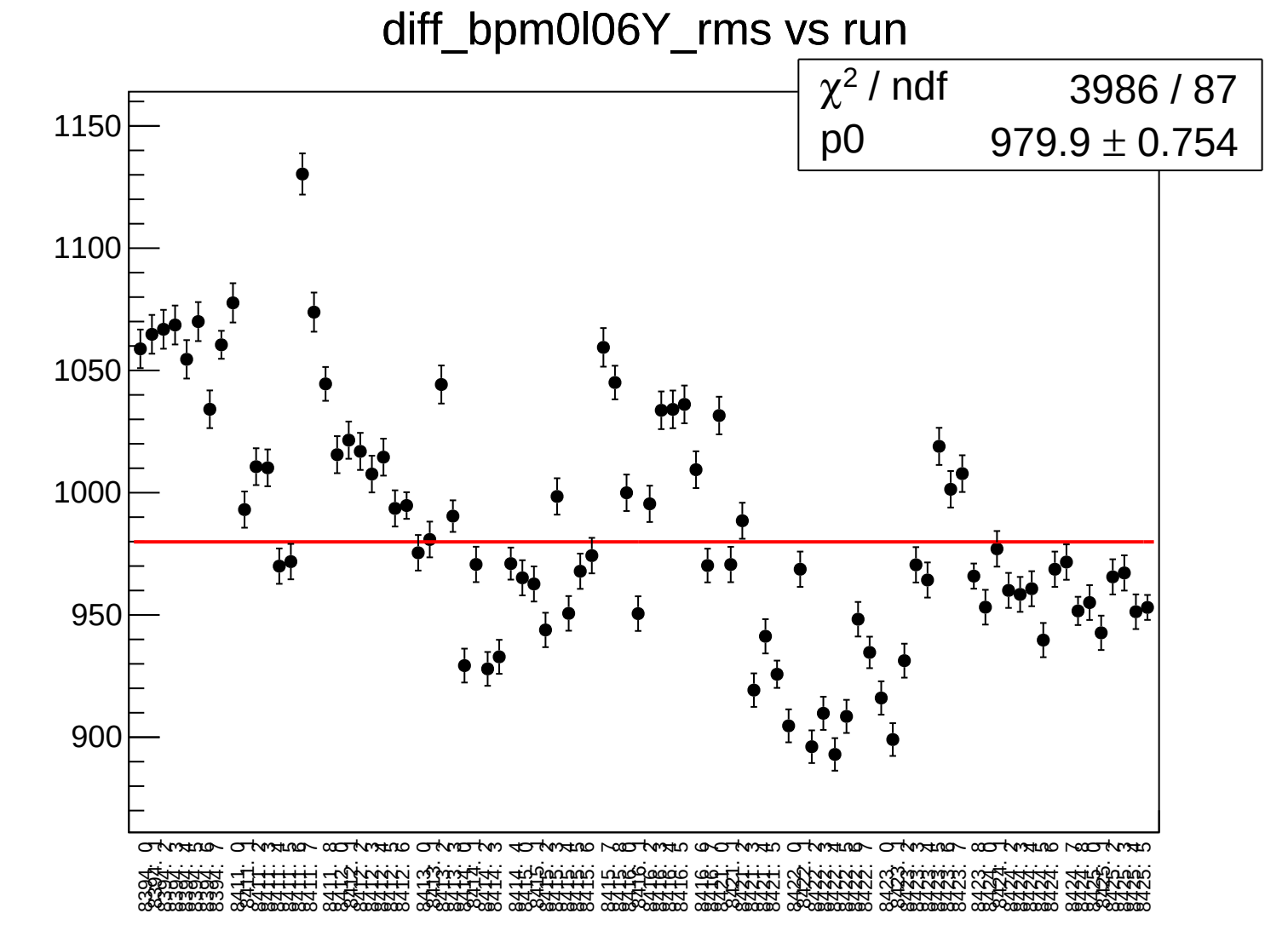

diff_bpm0l06X_mean vs run
χ² / ndf 99.37 / 87
p0 −63.77 ± 7.926
pull
Entries 88
Mean 63.2
Std Dev 0

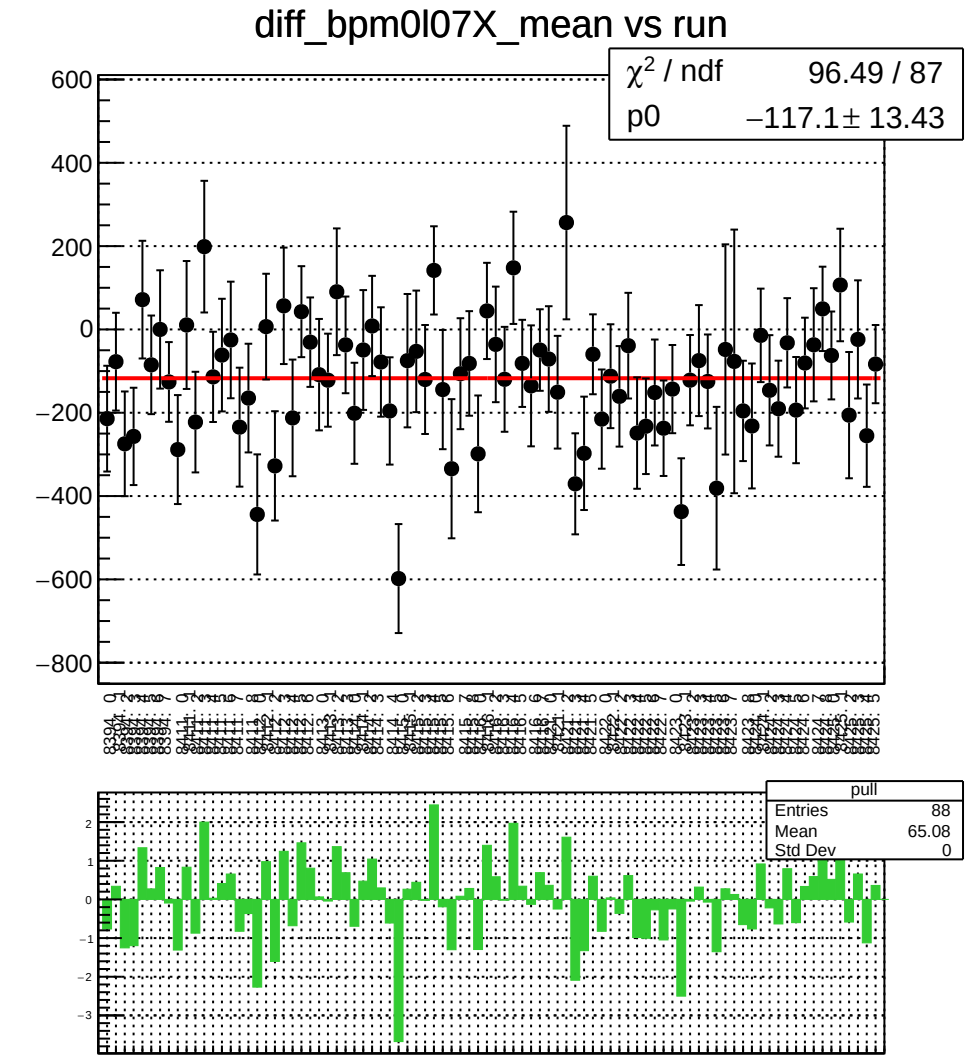

pull1D
Entries 88
Mean −0.0117
Std Dev 1.063

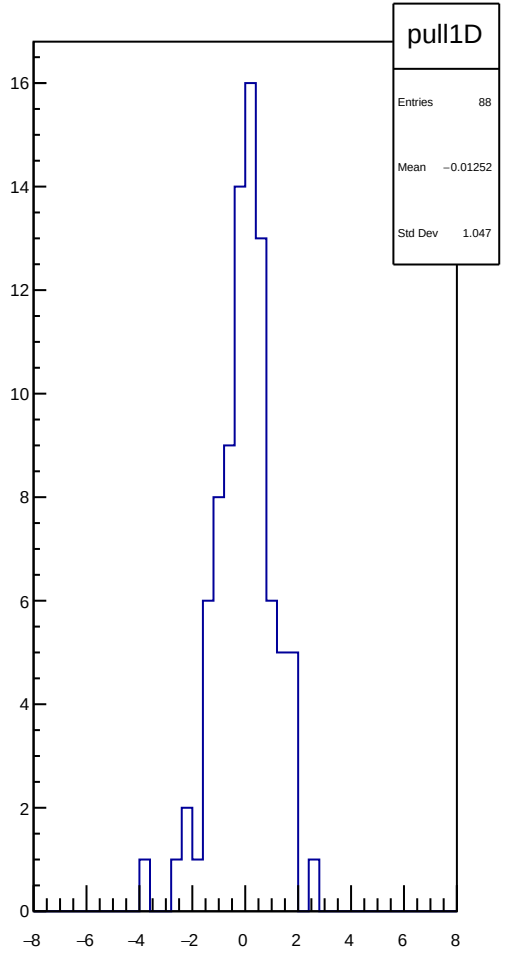

diff_bpm0l06X_rms vs run
χ^2 / ndf 3.791e+04 / 87
p0 7210 ± 5.604
18000
16000
14000
12000
10000
8000
6000

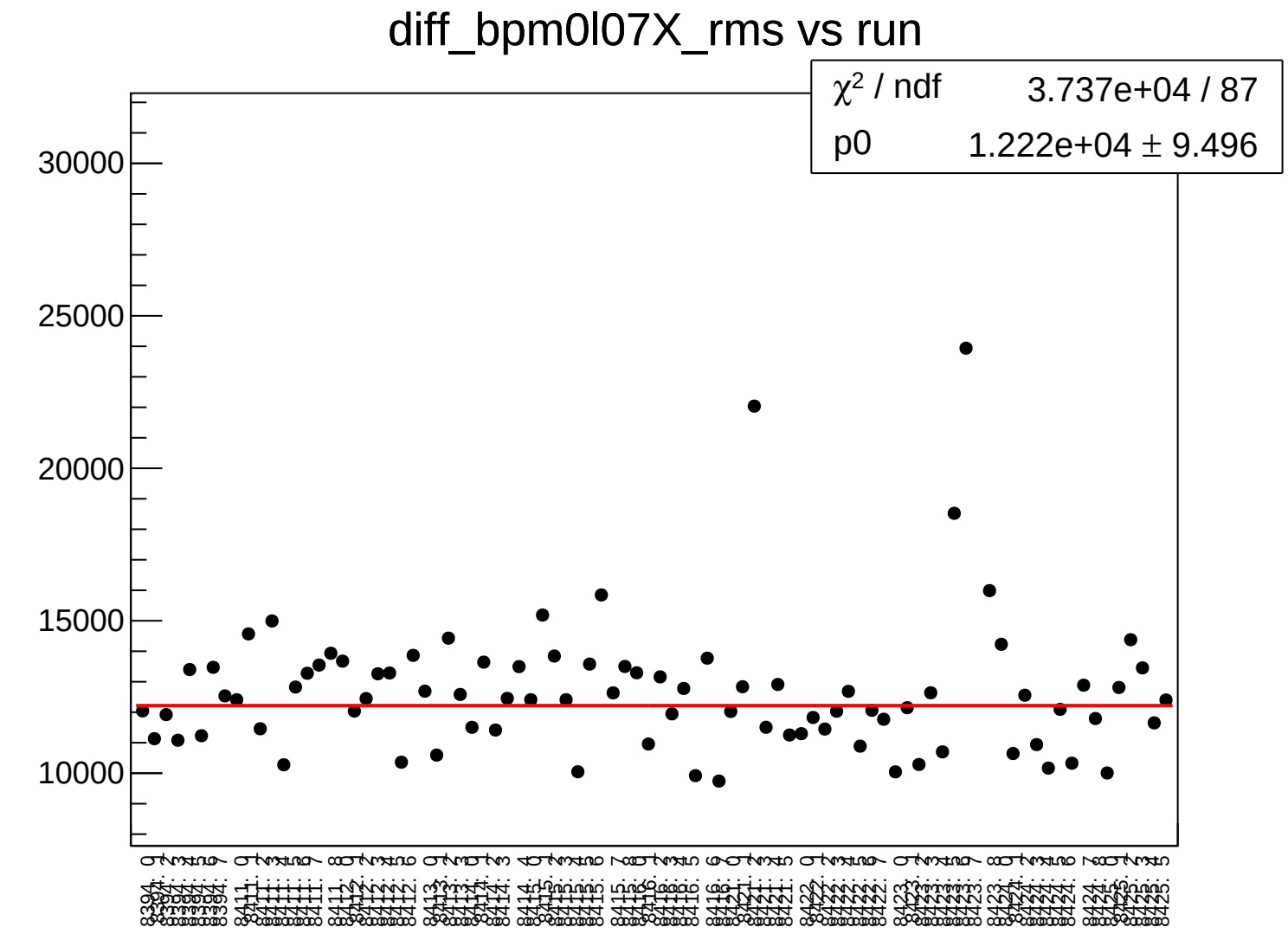

diff_bpm0l06Y_mean vs run
χ^2 / ndf 148.3 / 87
p0 18.13 ± 1.066
pull
Entries 88
Mean −472.3
Std Dev 0

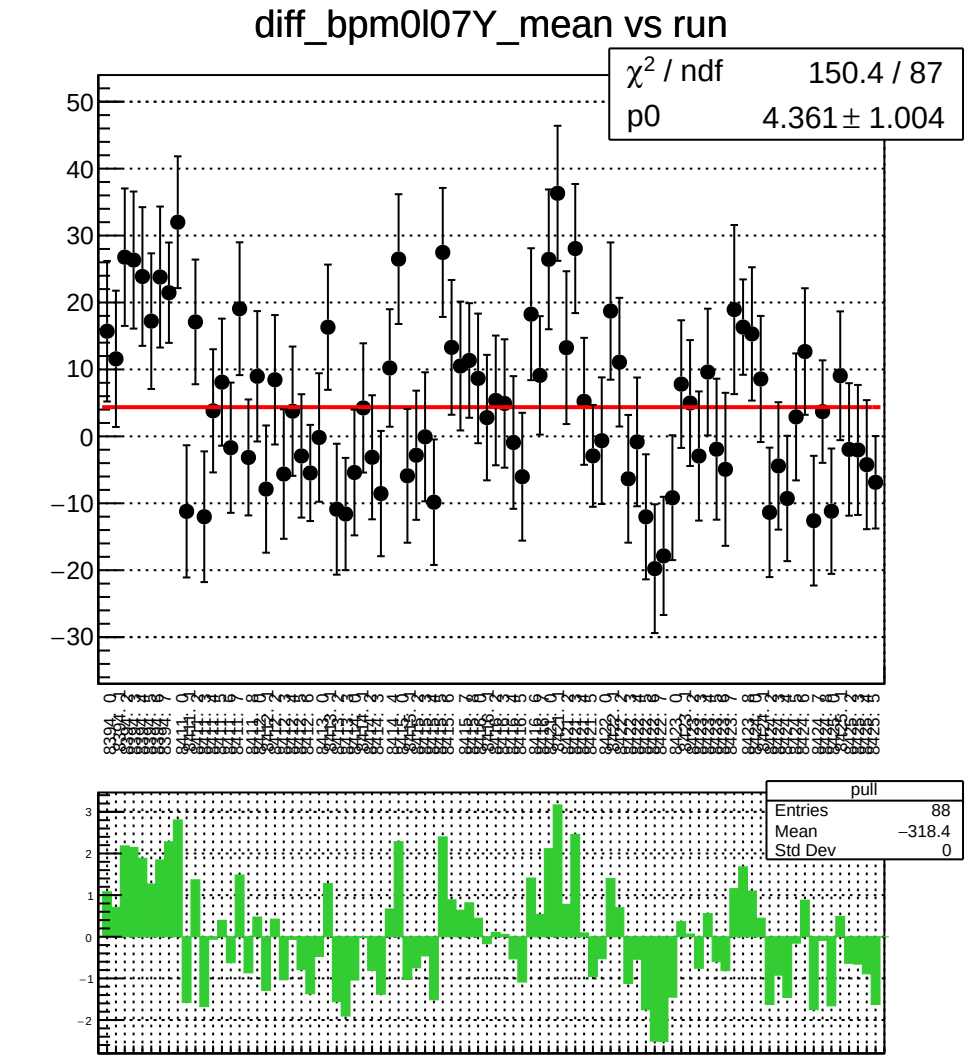

pull1D
Entries 88
Mean 0.01393
Std Dev 1.298

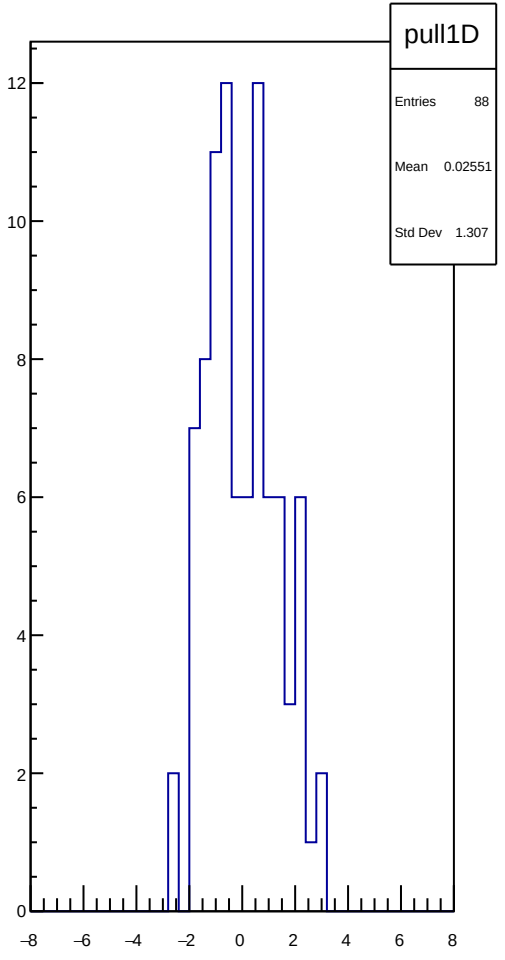

diff_bpm0l06Y_rms vs run
χ^2 / ndf 3986 / 87
p0 979.9 ± 0.754
1150
1100
1050
1000
950
900

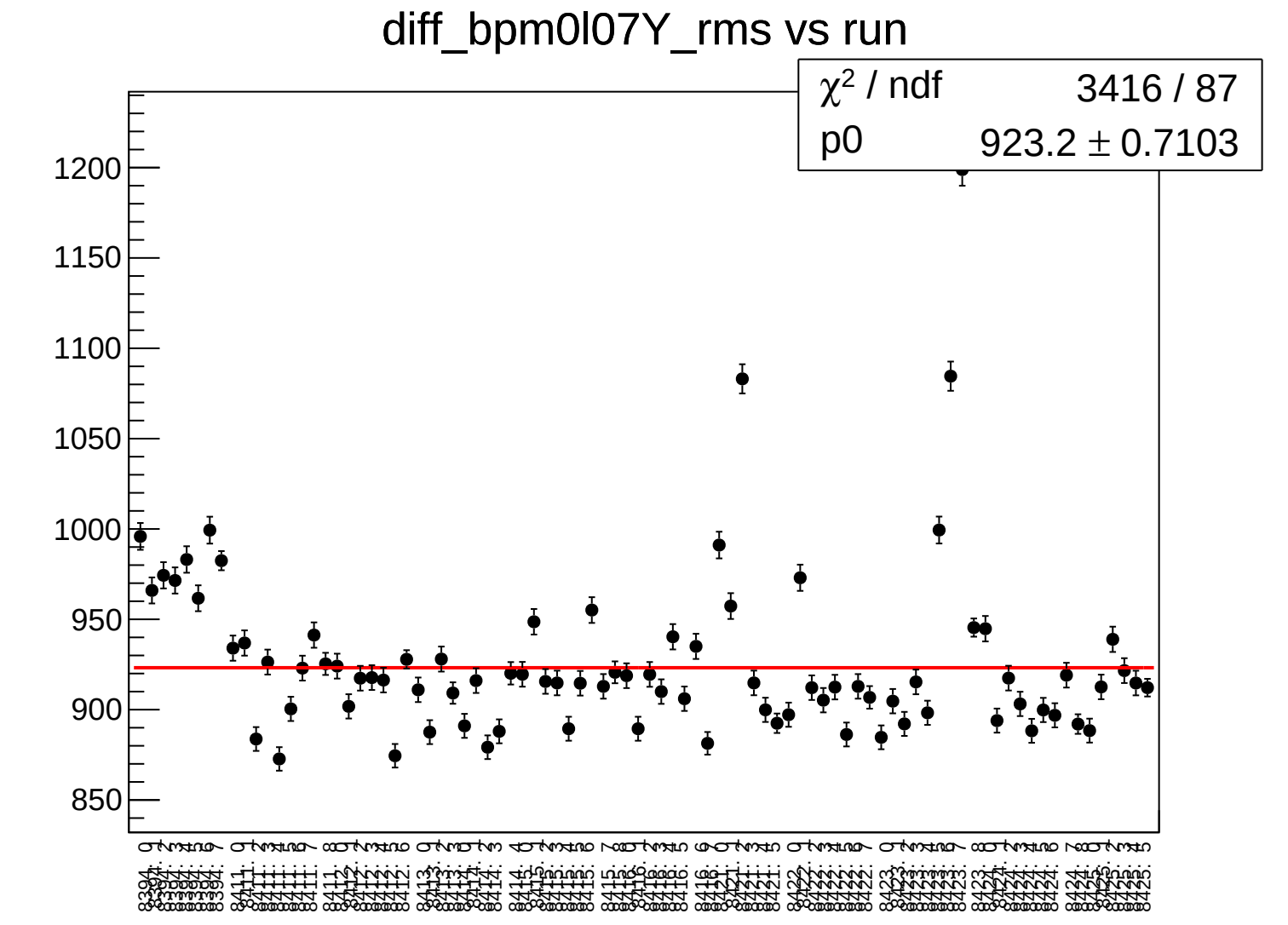

diff_bpm0l07X_mean vs run
χ² / ndf 96.49 / 87
p0 −117.1± 13.43
pull
Entries 88
Mean 65.08
Std Dev 0

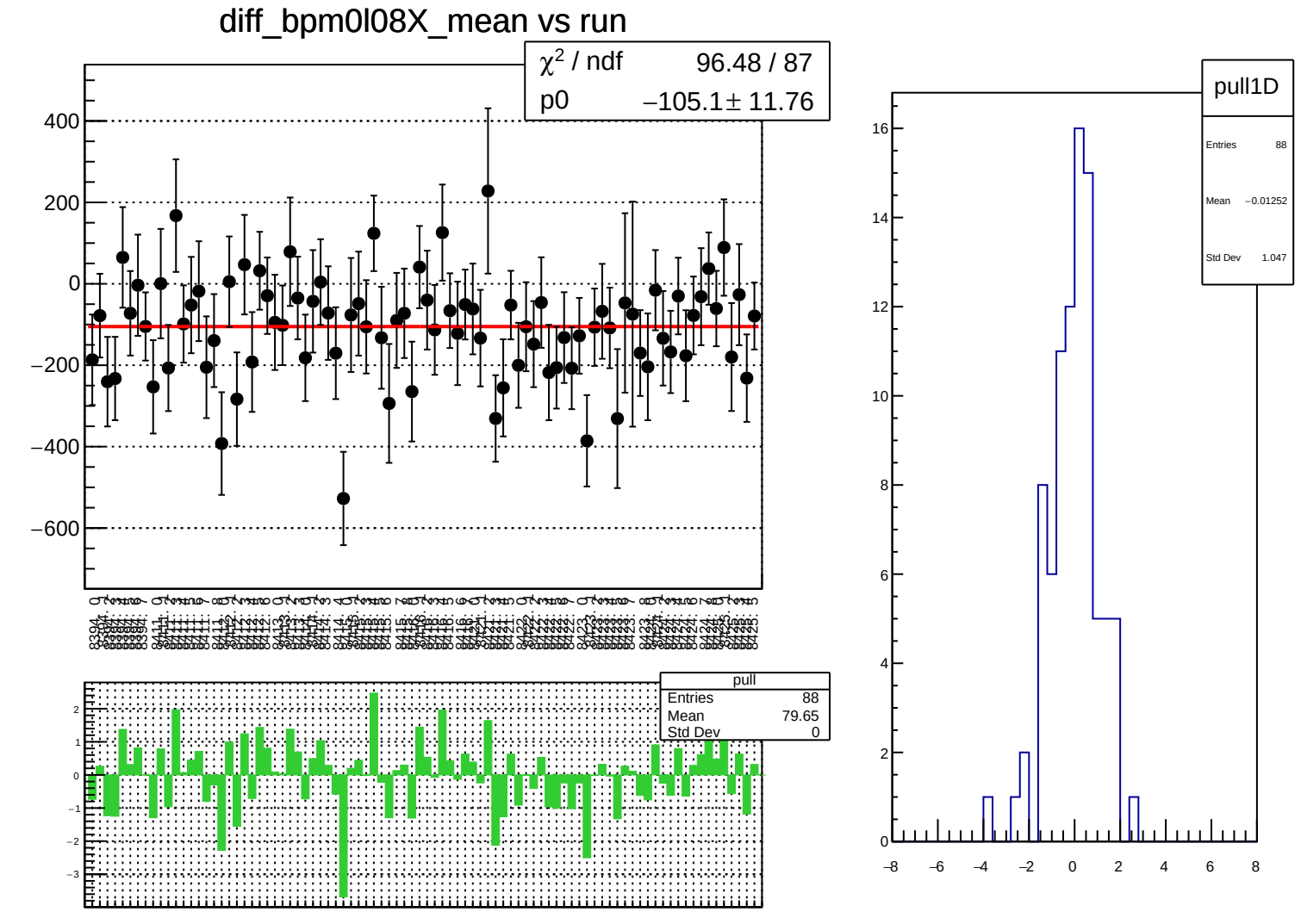

pull1D
Entries 88
Mean −0.01252
Std Dev 1.047

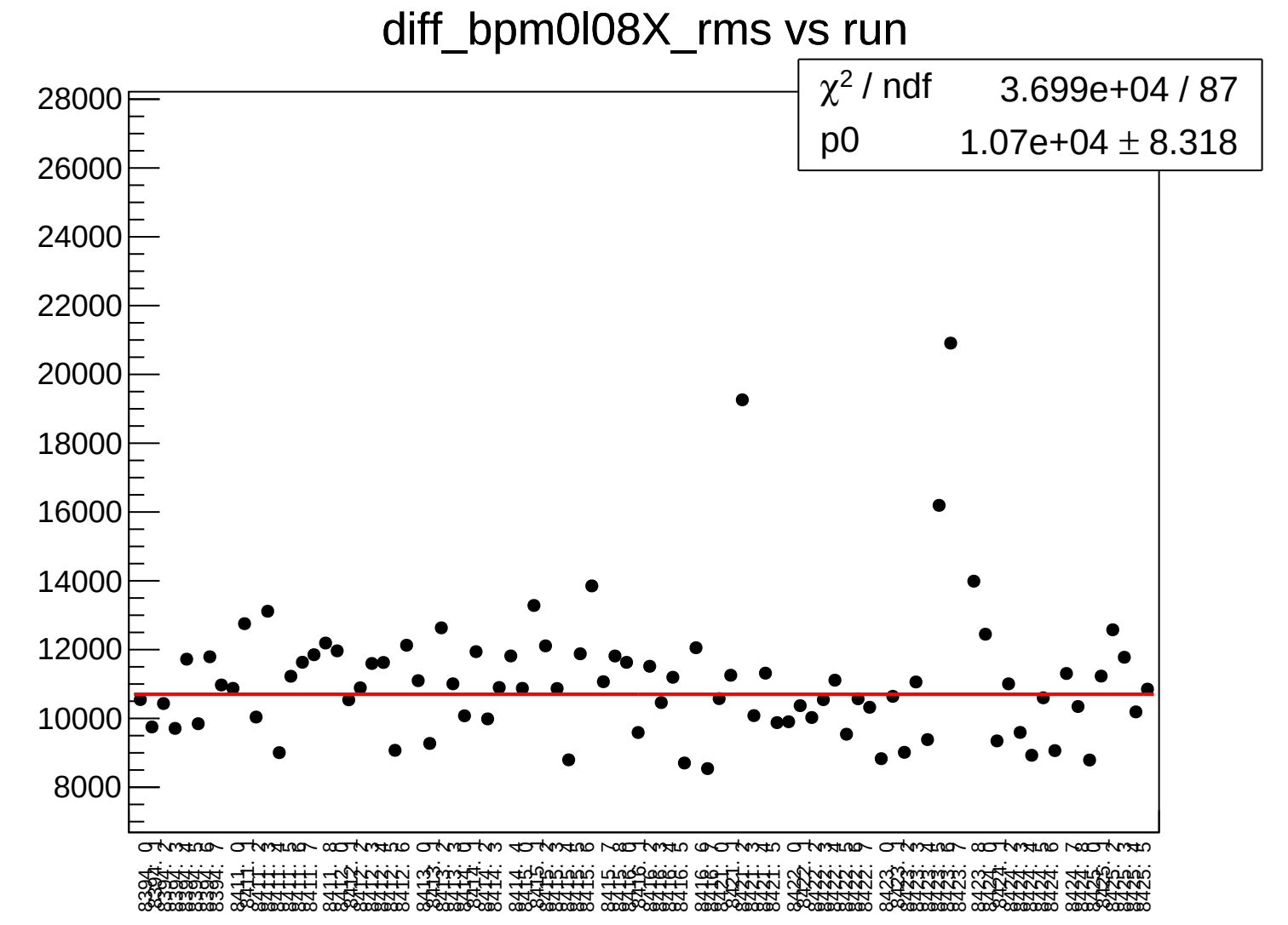

diff_bpm0l07X_rms vs run
χ² / ndf 3.737e+04 / 87
p0 1.222e+04 ± 9.496
30000
25000
20000
15000
10000

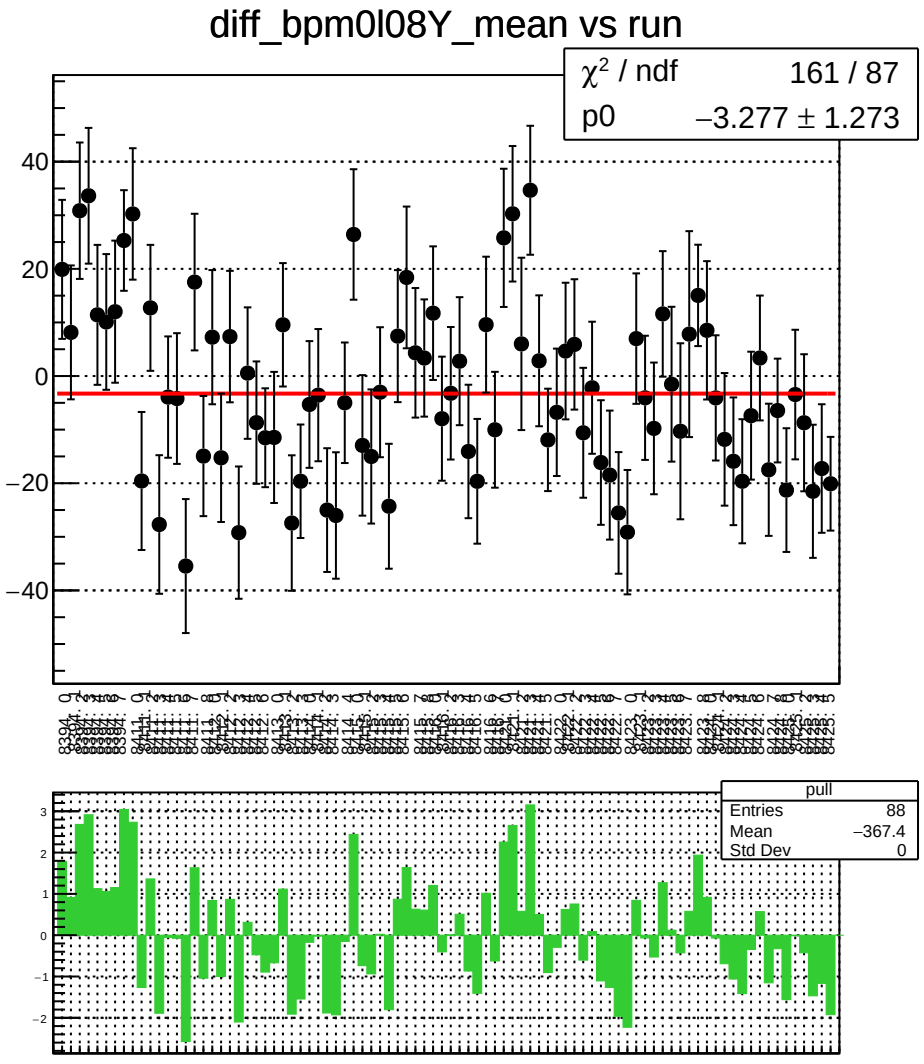

diff_bpm0l07Y_mean vs run
χ^2 / ndf 150.4 / 87
p0 4.361 ± 1.004
pull
Entries 88
Mean −318.4
Std Dev 0

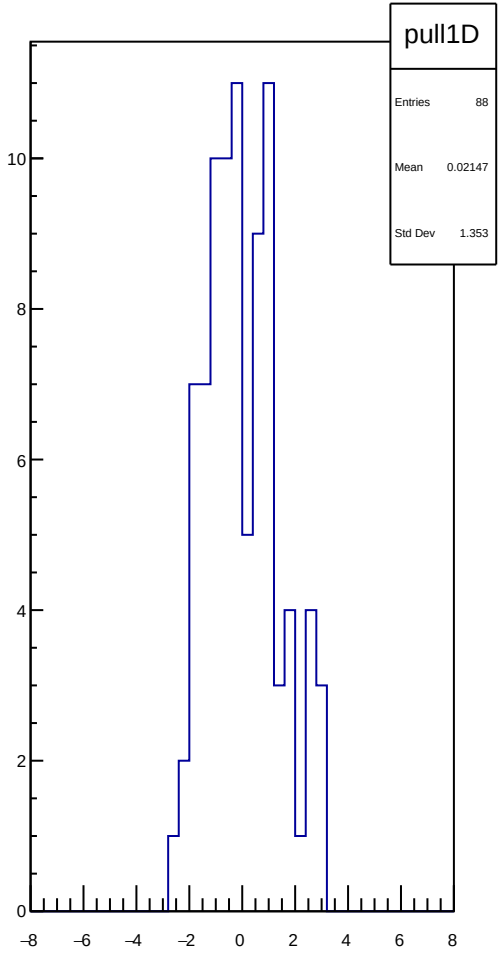

pull1D
Entries 88
Mean 0.02551
Std Dev 1.307

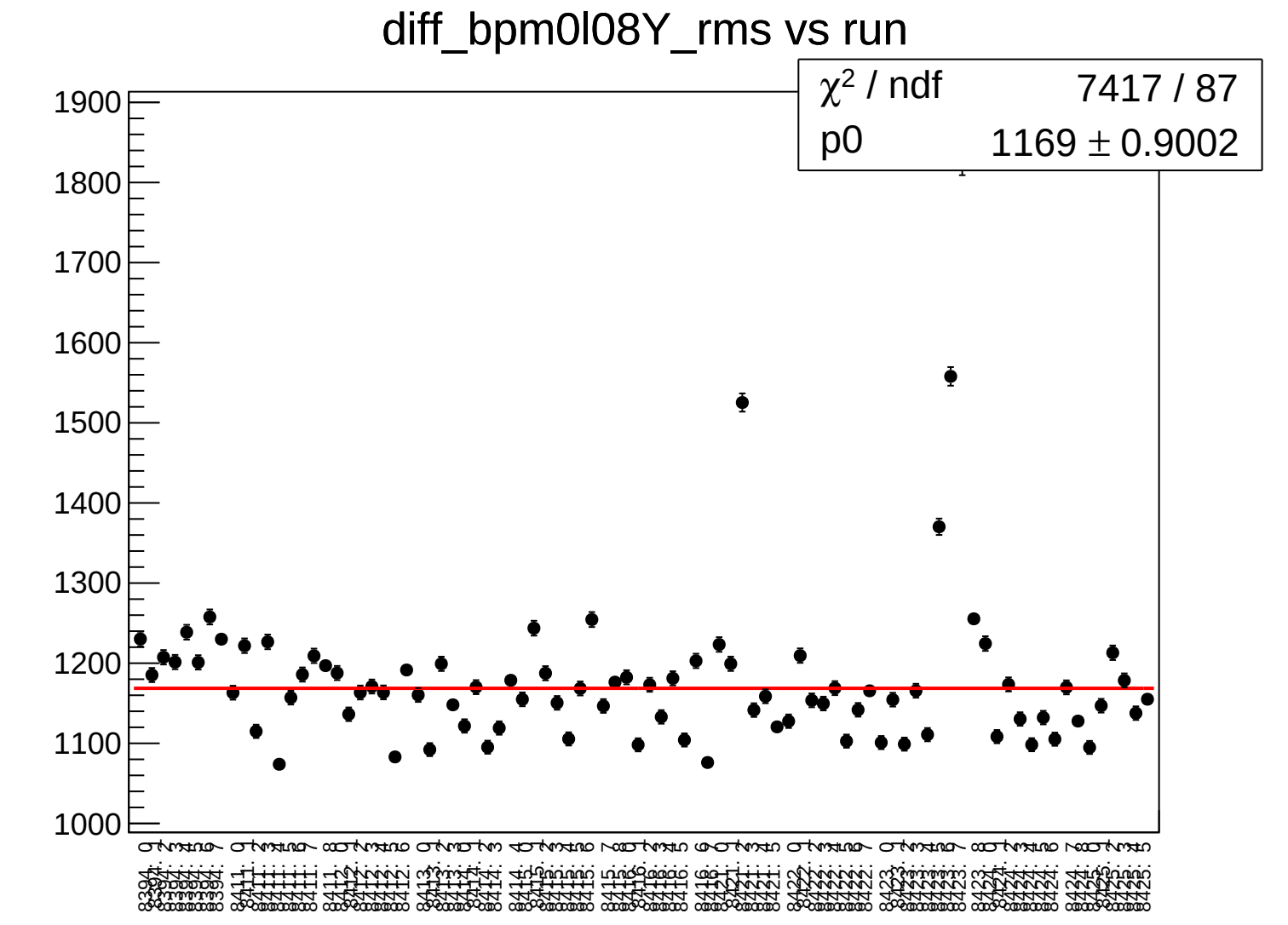

diff_bpm0l07Y_rms vs run
χ² / ndf 3416 / 87
p0 923.2 ± 0.7103
1200
1150
1100
1050
1000
950
900
850

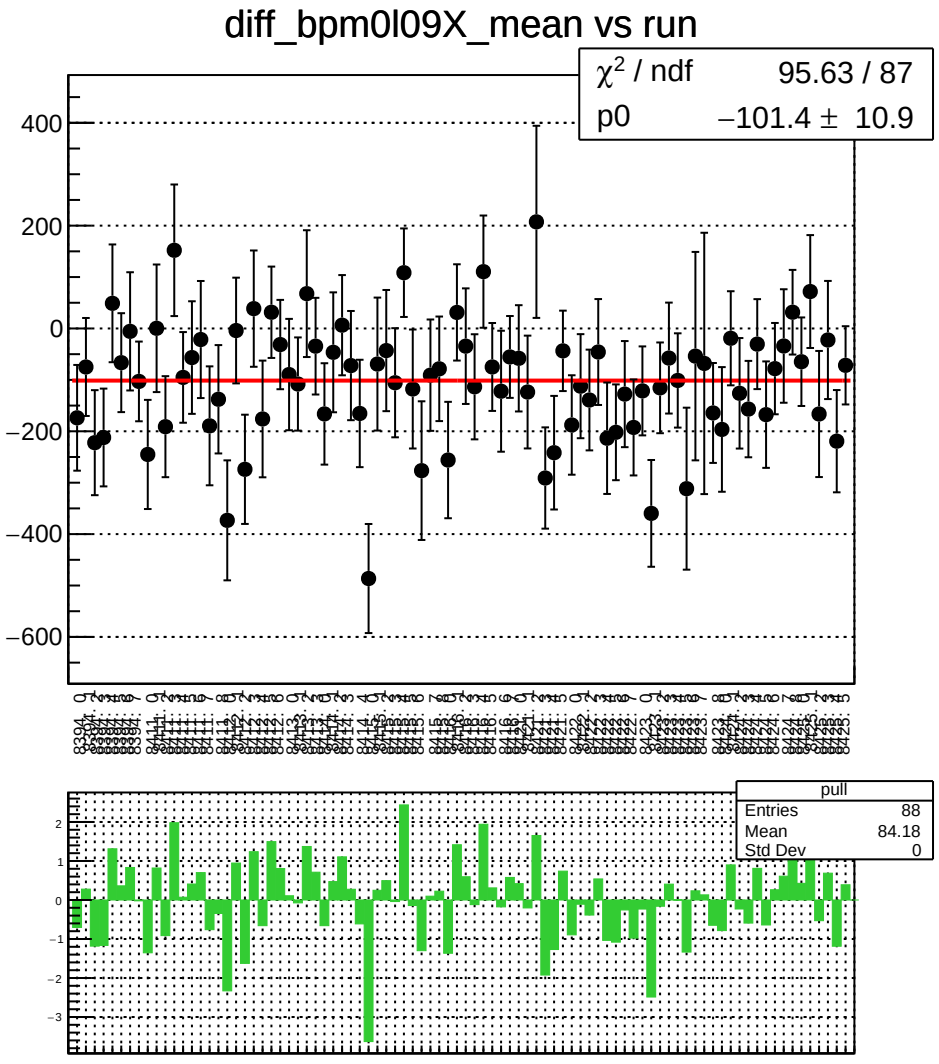

diff_bpm0l08X_mean vs run
χ² / ndf 96.48 / 87
p0 −105.1± 11.76
400
200
0
−200
−400
−600
pull
Entries 88
Mean 79.65
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.01252
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

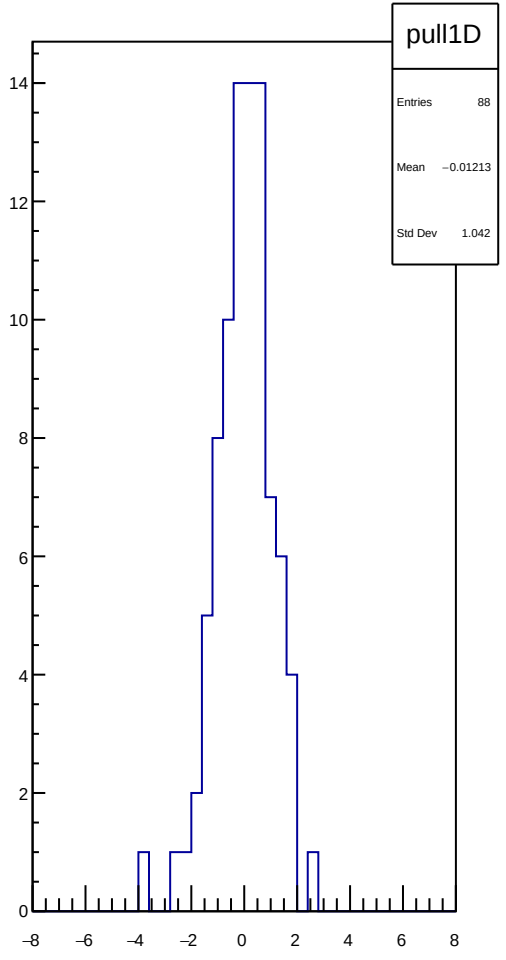

diff_bpm0l08X_rms vs run
χ² / ndf 3.699e+04 / 87
p0 1.07e+04 ± 8.318
28000
26000
24000
22000
20000
18000
16000
14000
12000
10000
8000

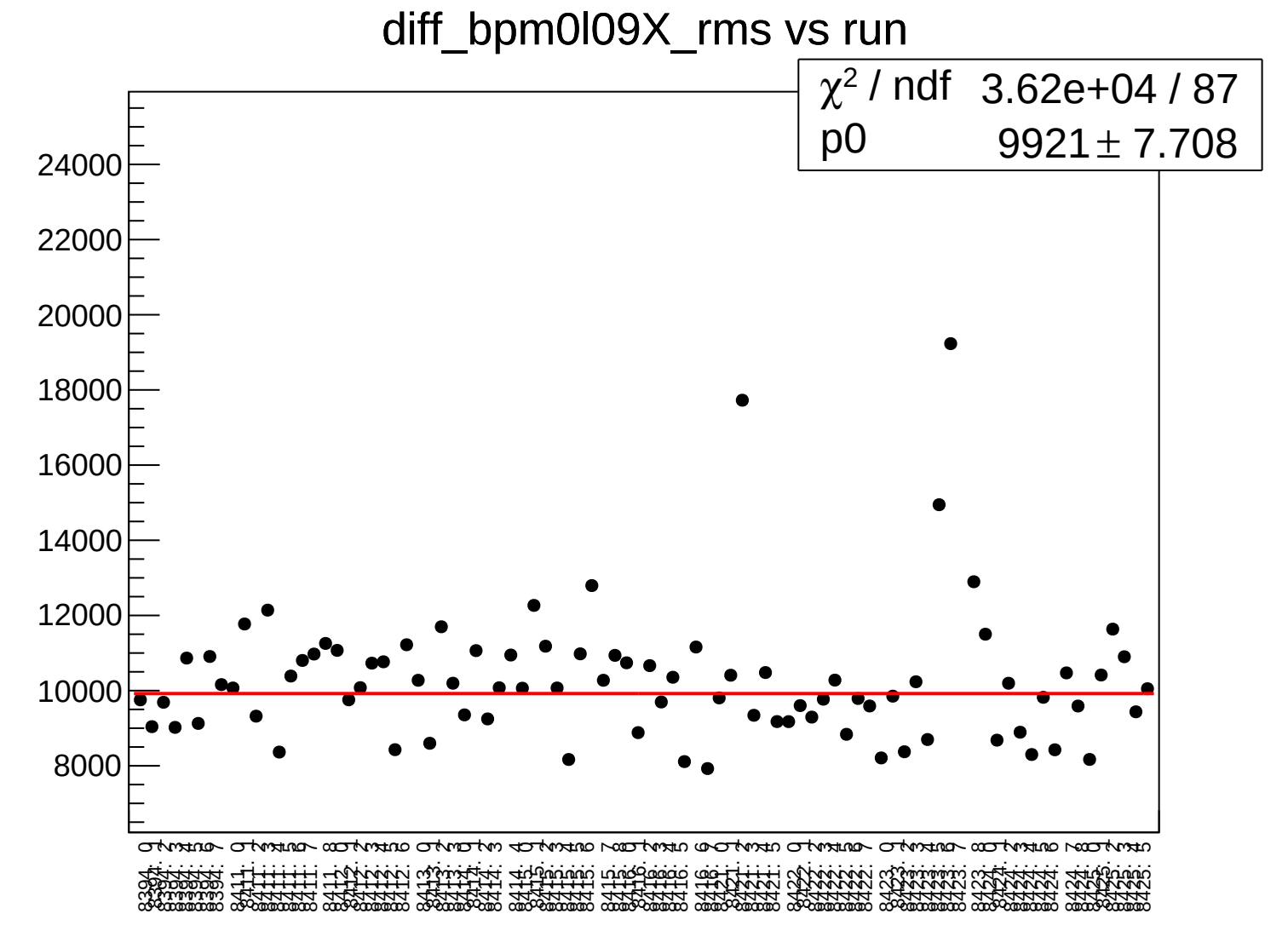

diff_bpm0l08Y_mean vs run
χ² / ndf 161 / 87
p0 −3.277 ± 1.273
40
20
0
−20
−40
pull
Entries 88
Mean −367.4
Std Dev 0
3
2
1
0
−1
−2

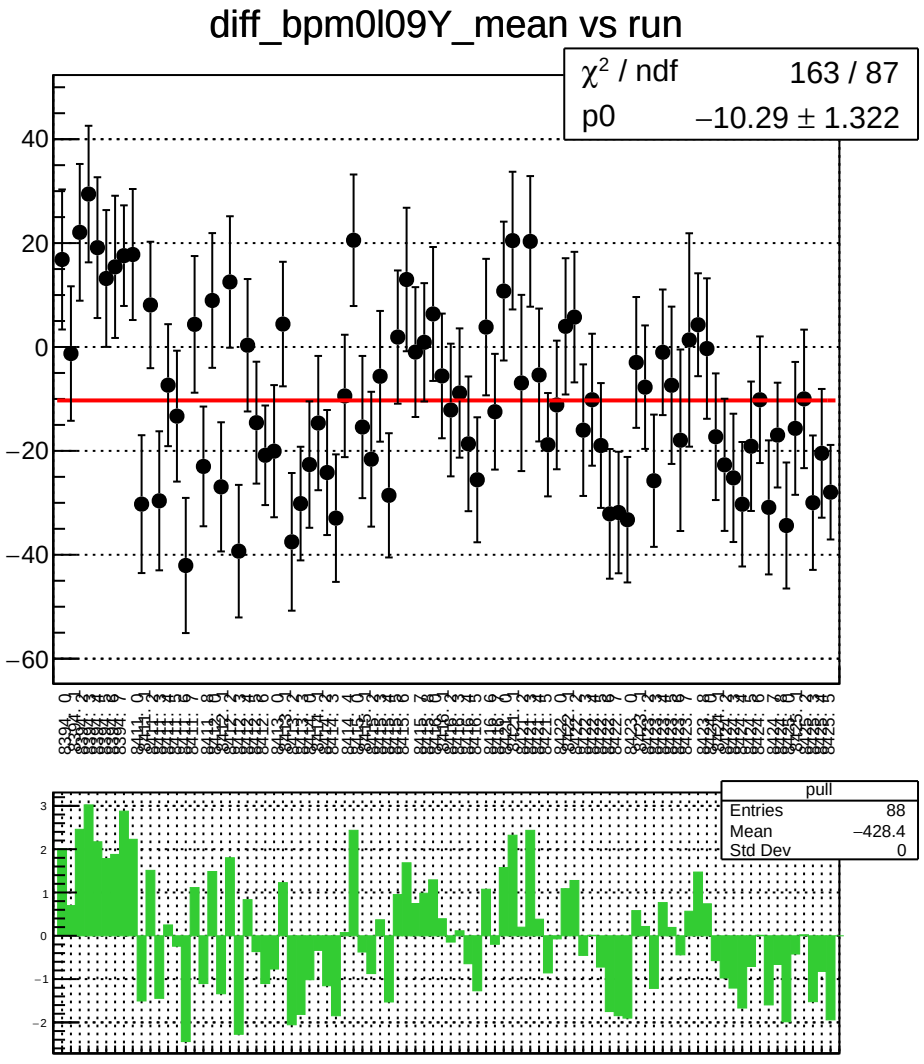

pull1D
Entries 88
Mean 0.02147
Std Dev 1.353
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

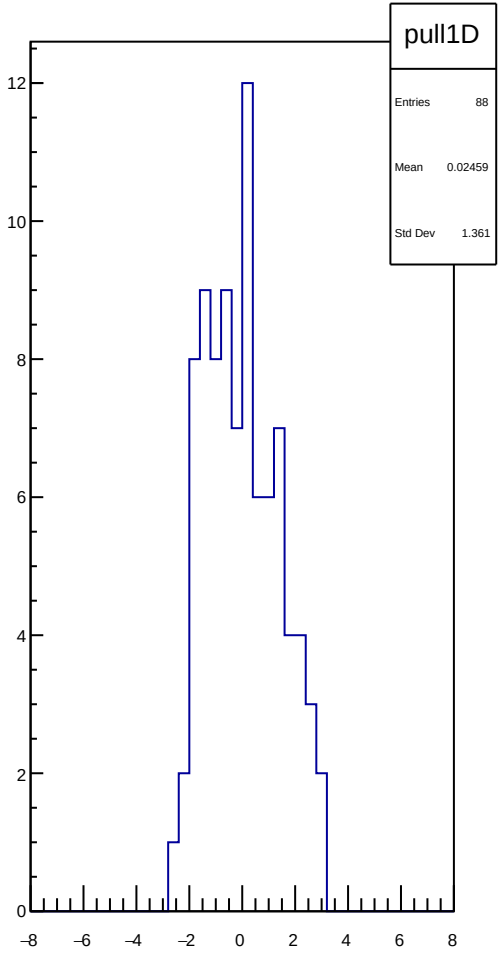

diff_bpm0l08Y_rms vs run
χ² / ndf 7417 / 87
p0 1169 ± 0.9002
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000

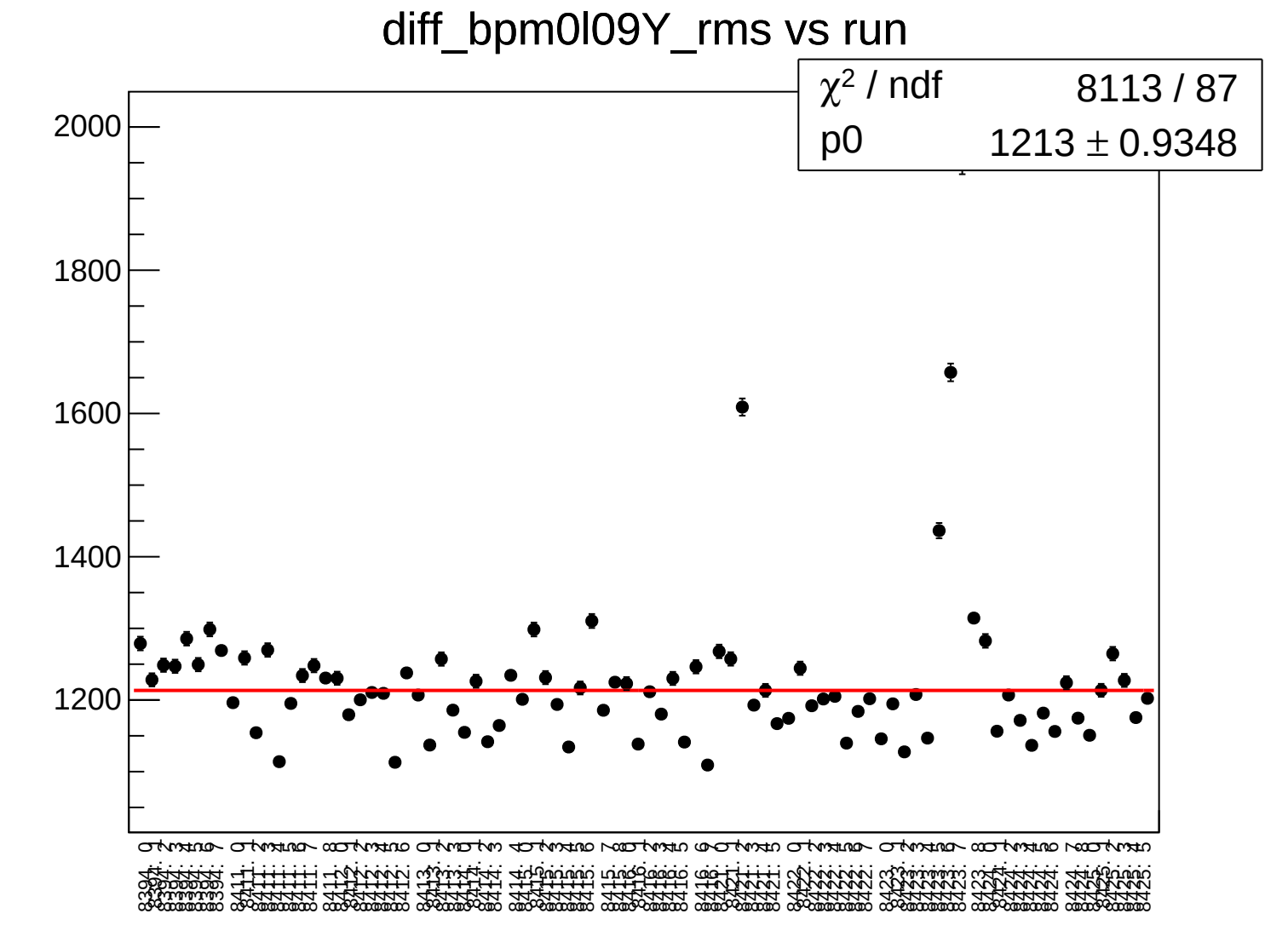

diff_bpm0l09X_mean vs run
χ² / ndf 95.63 / 87
p0 −101.4 ± 10.9
400
200
0
−200
−400
−600
pull
Entries 88
Mean 84.18
Std Dev 0
2
1
0
−1
−2
−3

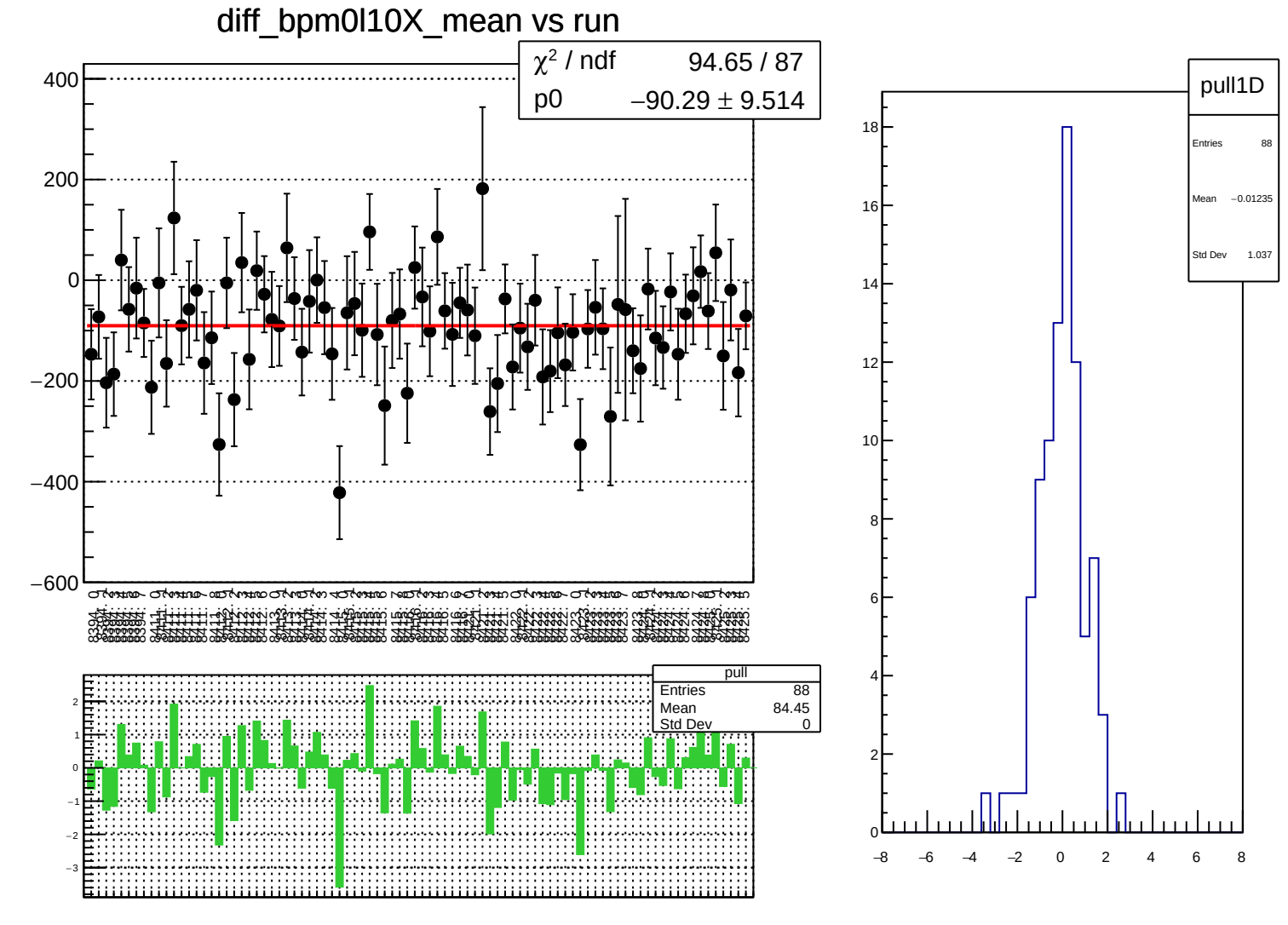

pull1D
Entries 88
Mean −0.01213
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

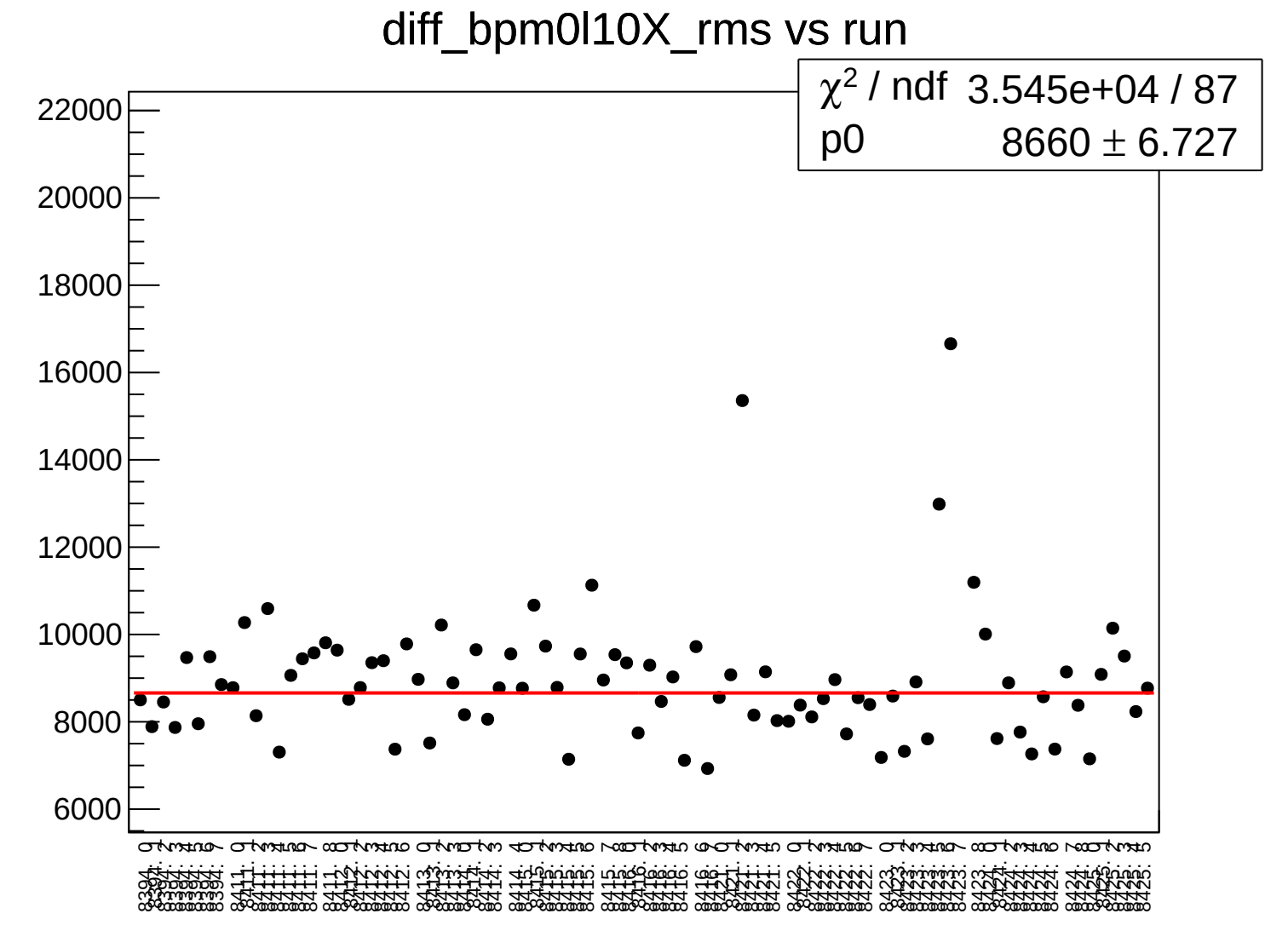

diff_bpm0l09X_rms vs run
χ² / ndf 3.62e+04 / 87
p0 9921 ± 7.708
24000
22000
20000
18000
16000
14000
12000
10000
8000

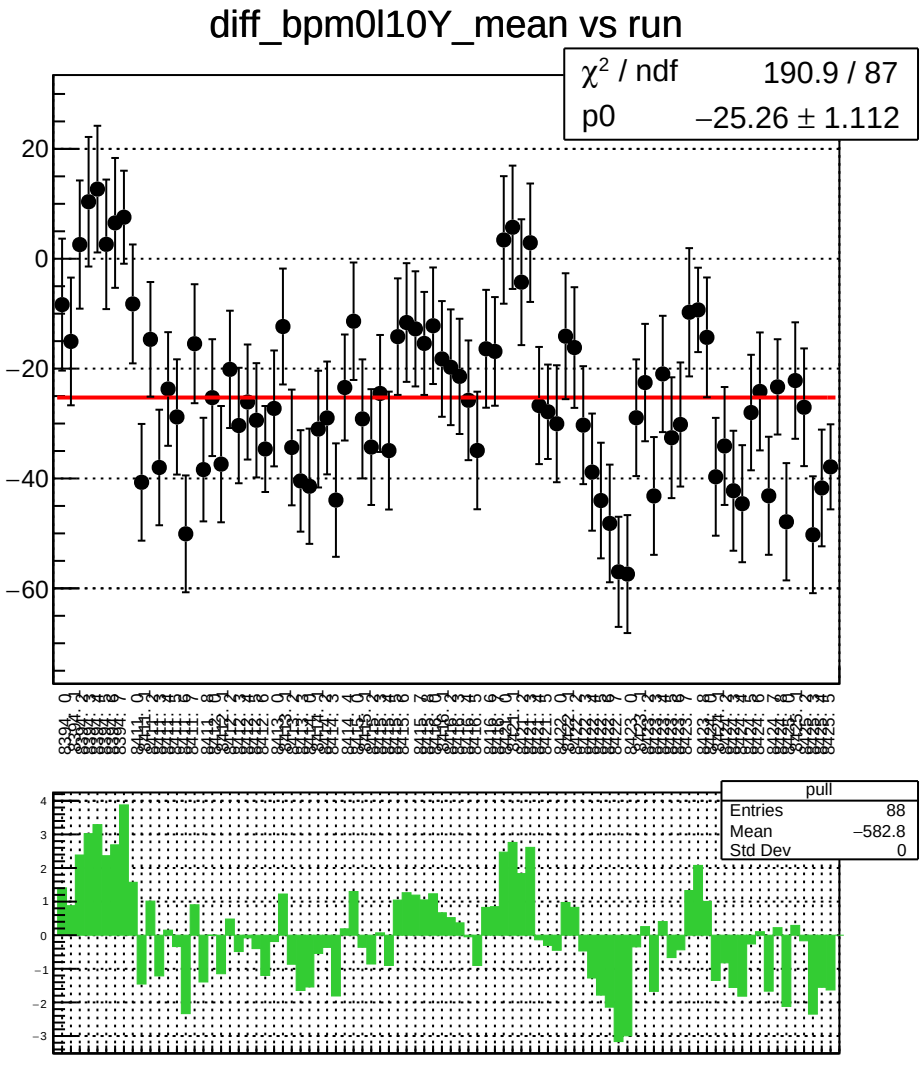

diff_bpm0l09Y_mean vs run
χ² / ndf 163 / 87
p0 −10.29 ± 1.322
pull
Entries 88
Mean −428.4
Std Dev 0

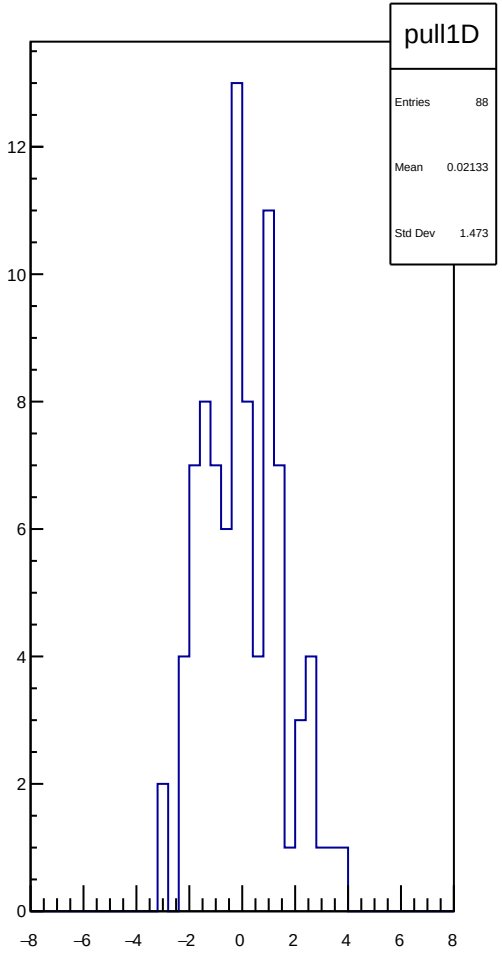

pull1D
Entries 88
Mean 0.02459
Std Dev 1.361

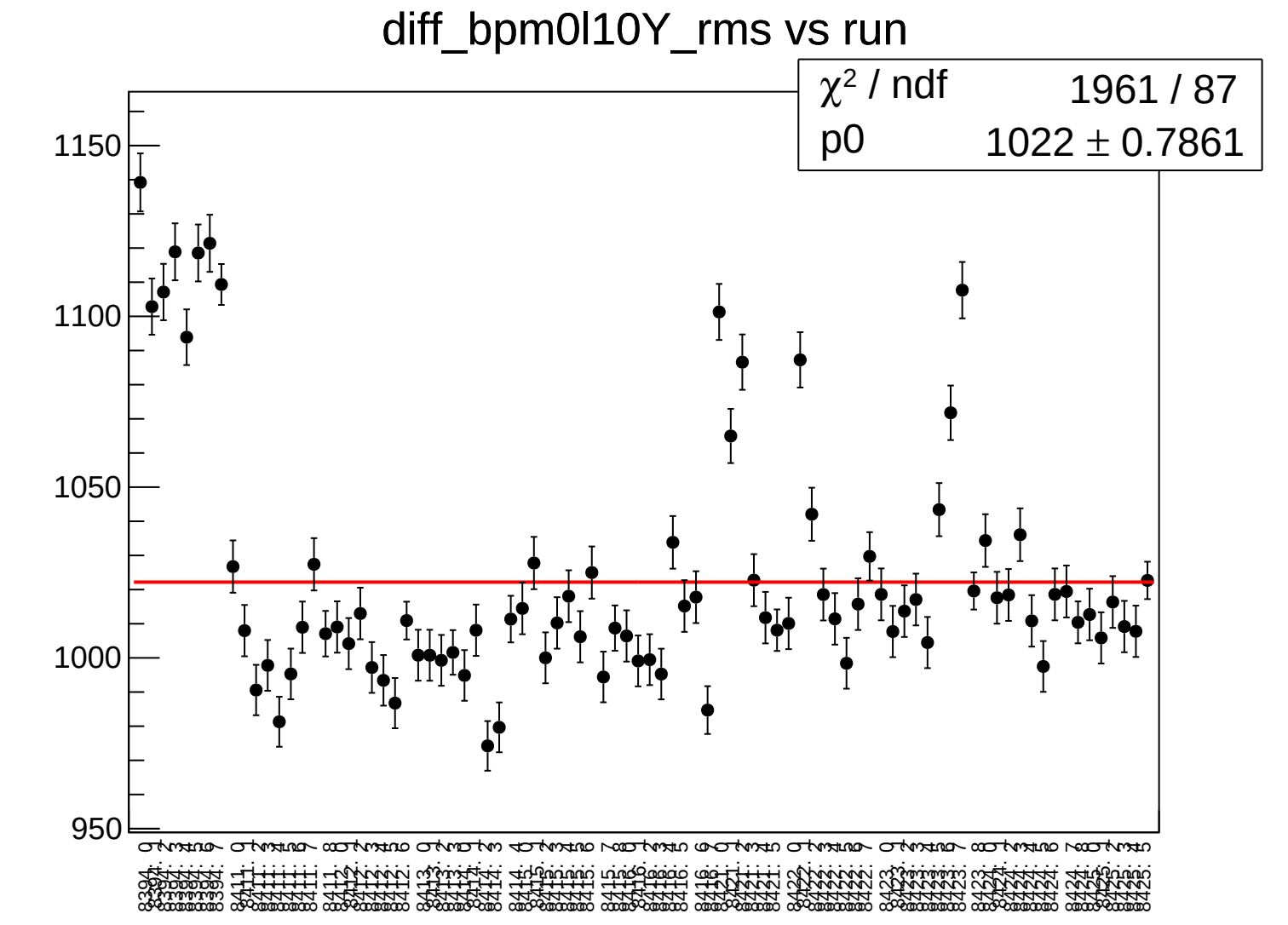

diff_bpm0l09Y_rms vs run
χ² / ndf 8113 / 87
p0 1213 ± 0.9348
2000
1800
1600
1400
1200

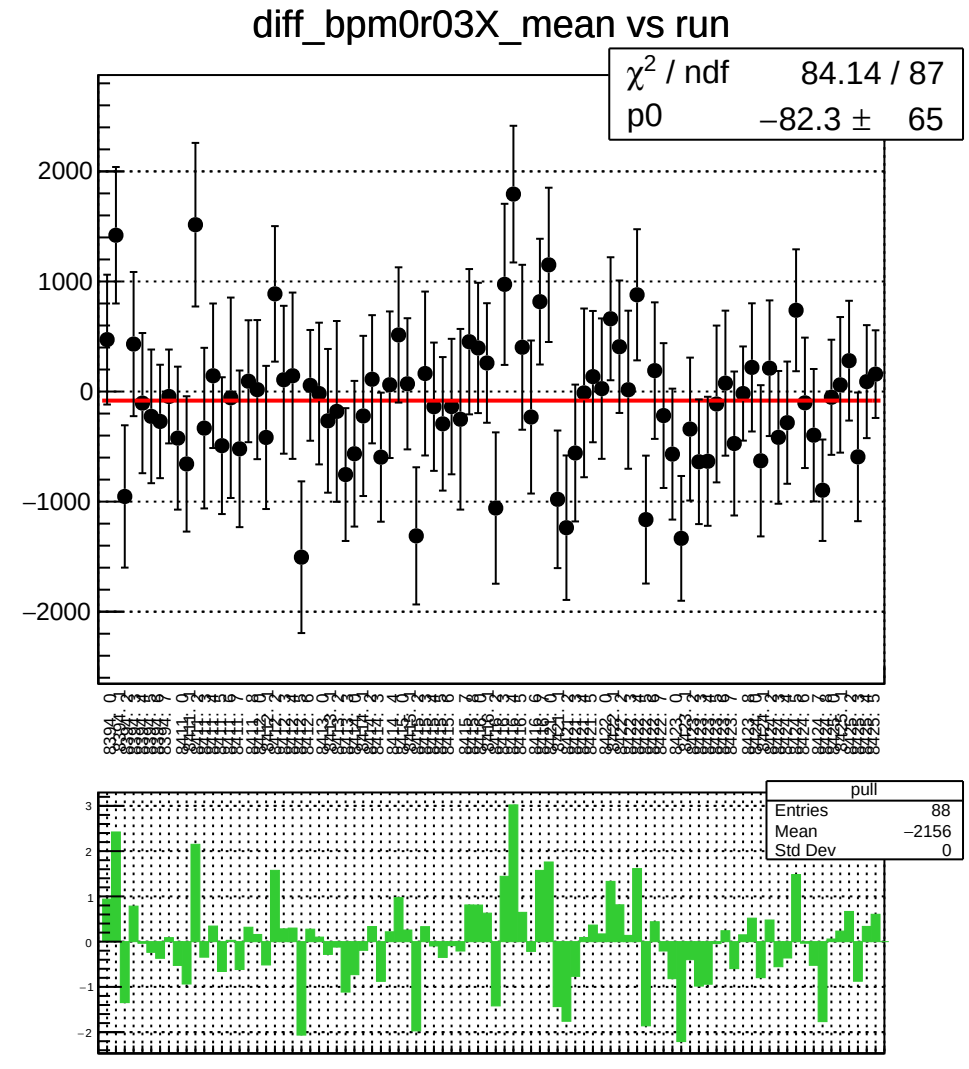

diff_bpm0l10X_mean vs run
χ² / ndf 94.65 / 87
p0 −90.29 ± 9.514
pull
Entries 88
Mean 84.45
Std Dev 0
pull1D
Entries 88
Mean −0.01235
Std Dev 1.037

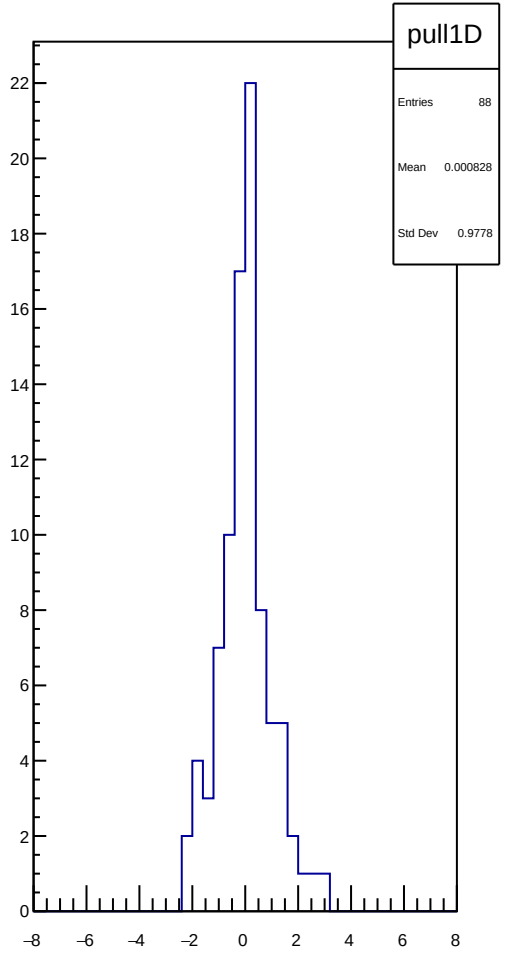

diff_bpm0l10X_rms vs run
χ² / ndf 3.545e+04 / 87
p0 8660 ± 6.727
22000
20000
18000
16000
14000
12000
10000
8000
6000

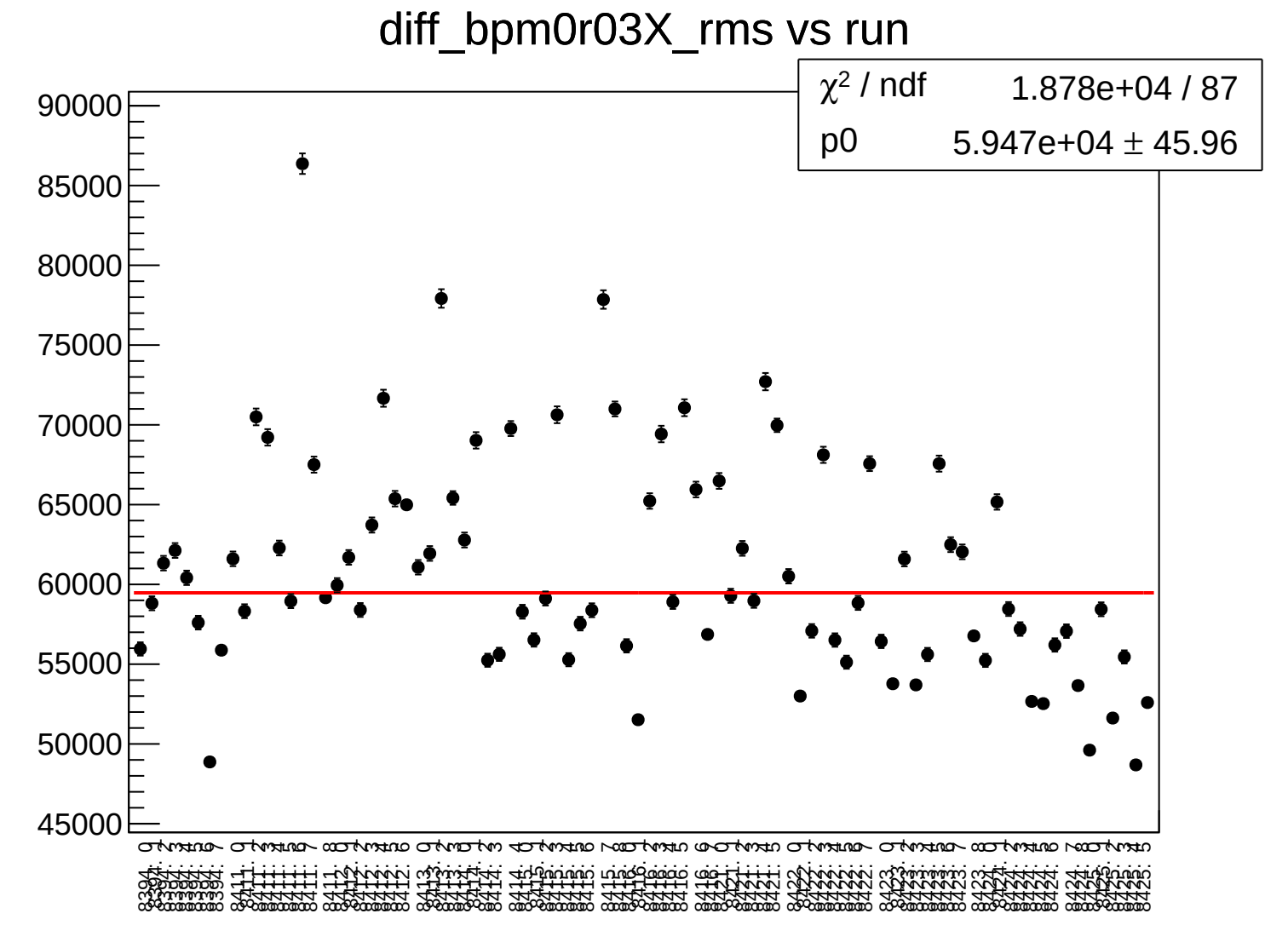

diff_bpm0l10Y_mean vs run
χ² / ndf 190.9 / 87
p0 −25.26 ± 1.112
pull
Entries 88
Mean −582.8
Std Dev 0

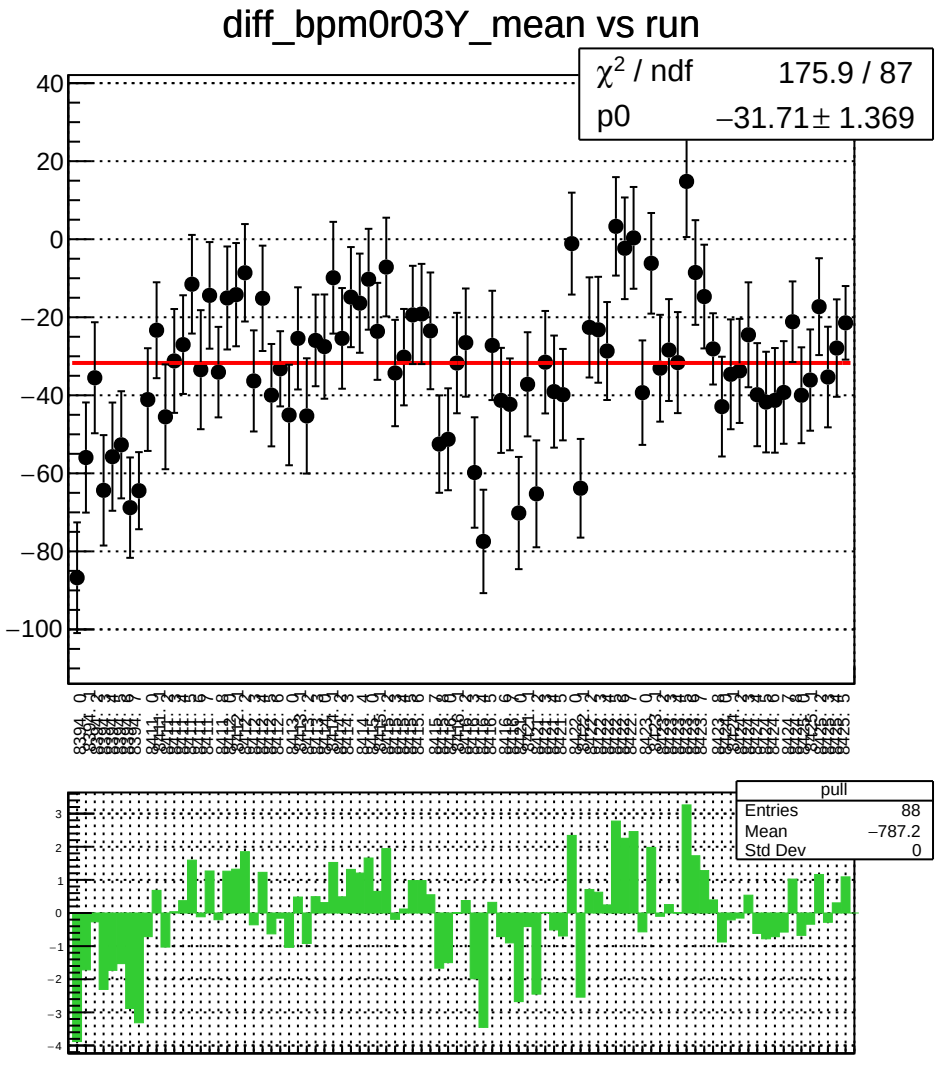

pull1D
Entries 88
Mean 0.02133
Std Dev 1.473

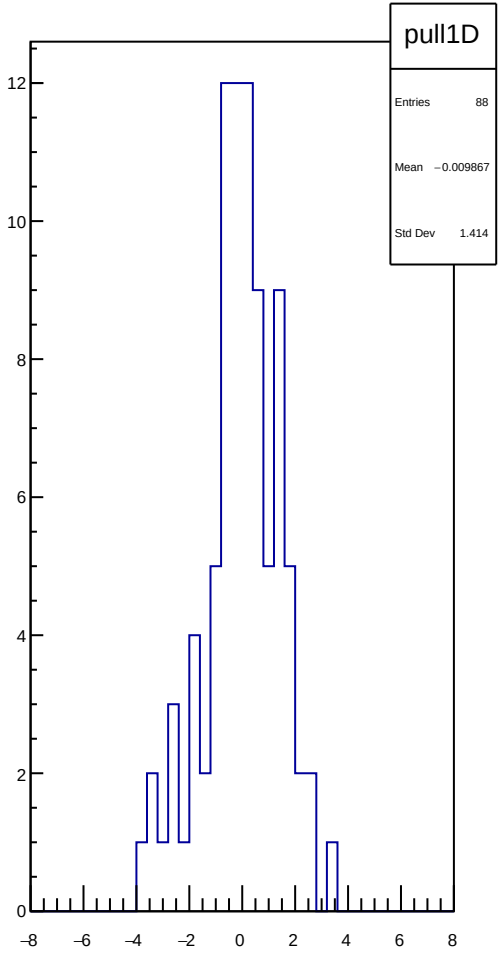

diff_bpm0l10Y_rms vs run
χ² / ndf 1961 / 87
p0 1022 ± 0.7861
1150
1100
1050
1000
950

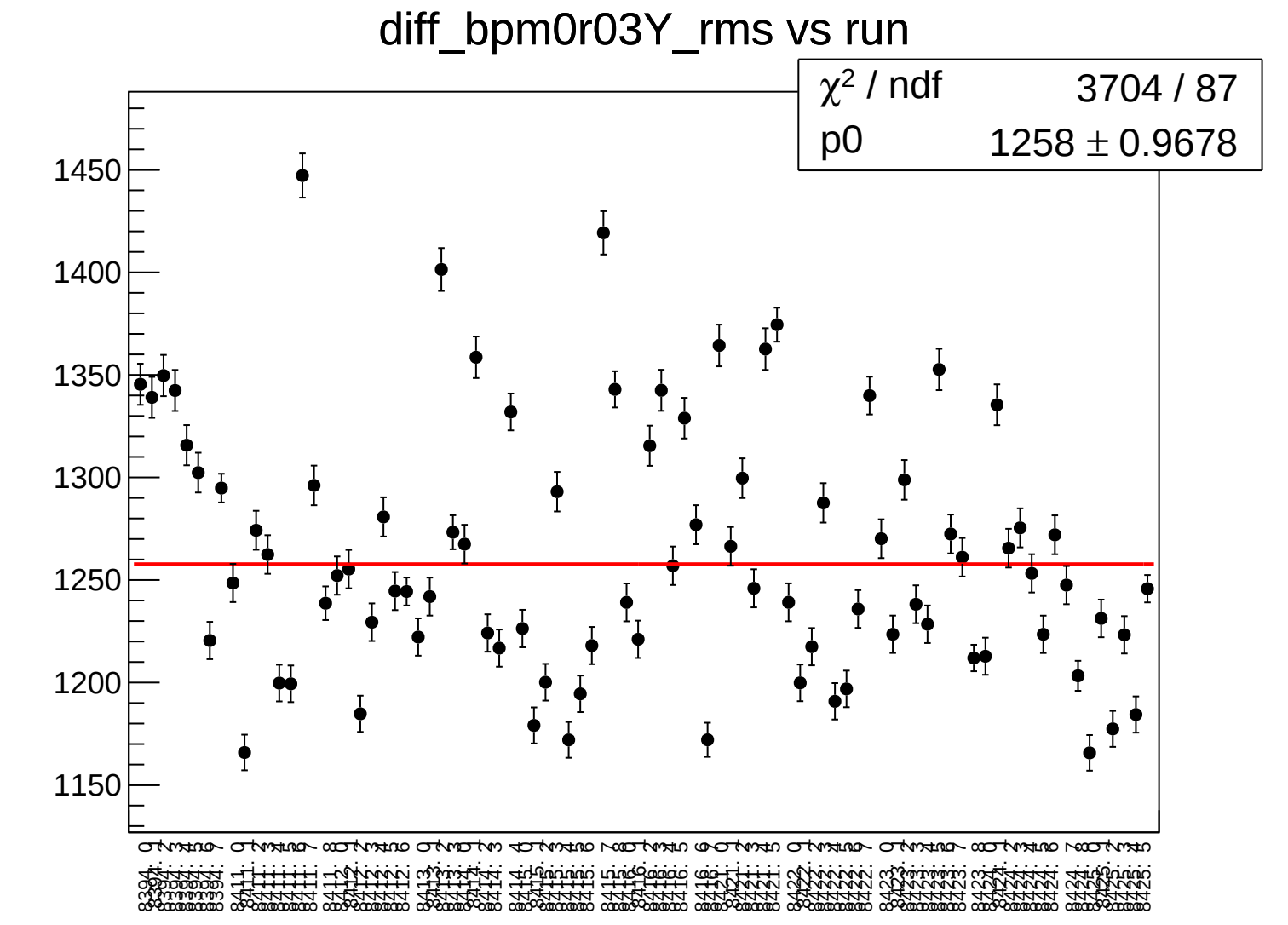

diff_bpm0r03X_mean vs run
χ² / ndf 84.14 / 87
p0 −82.3 ± 65
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −2156
Std Dev 0
3
2
1
0
−1
−2

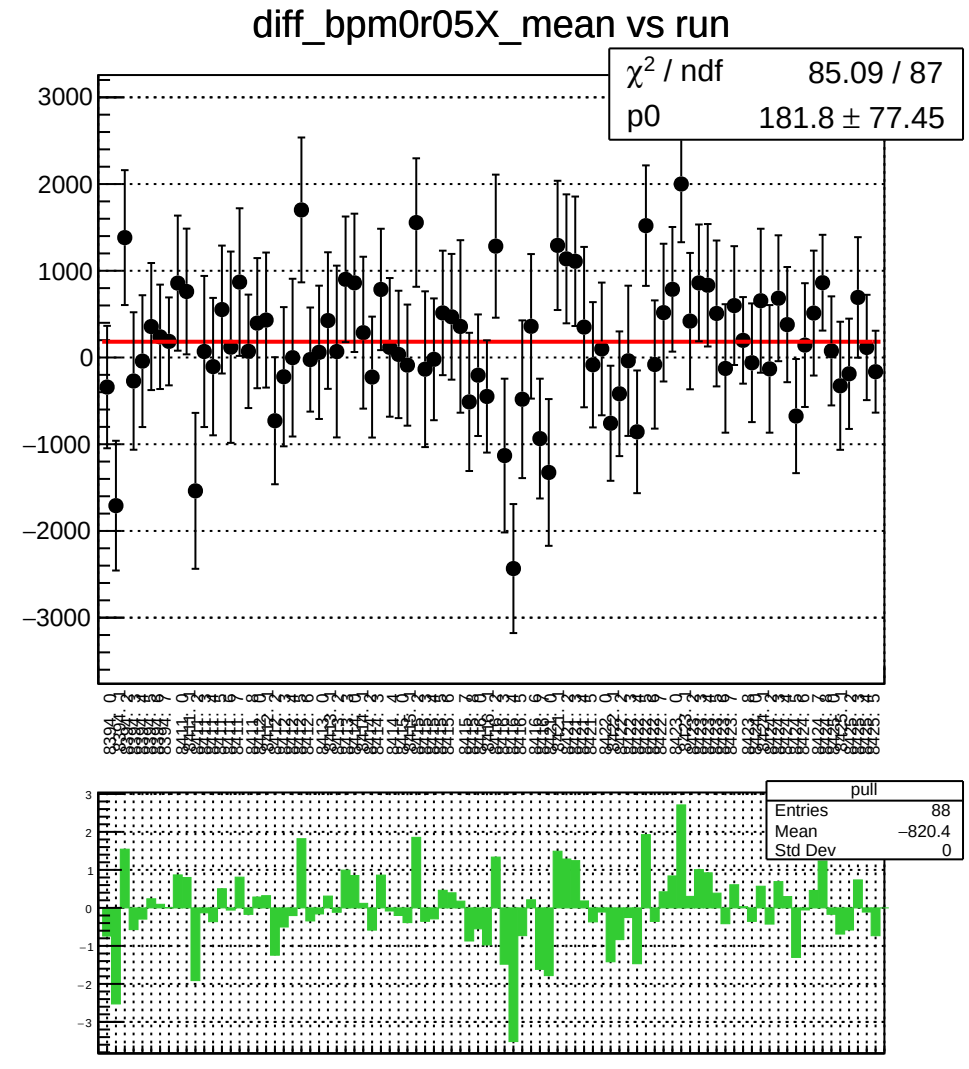

pull1D
Entries 88
Mean 0.000828
Std Dev 0.9778
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

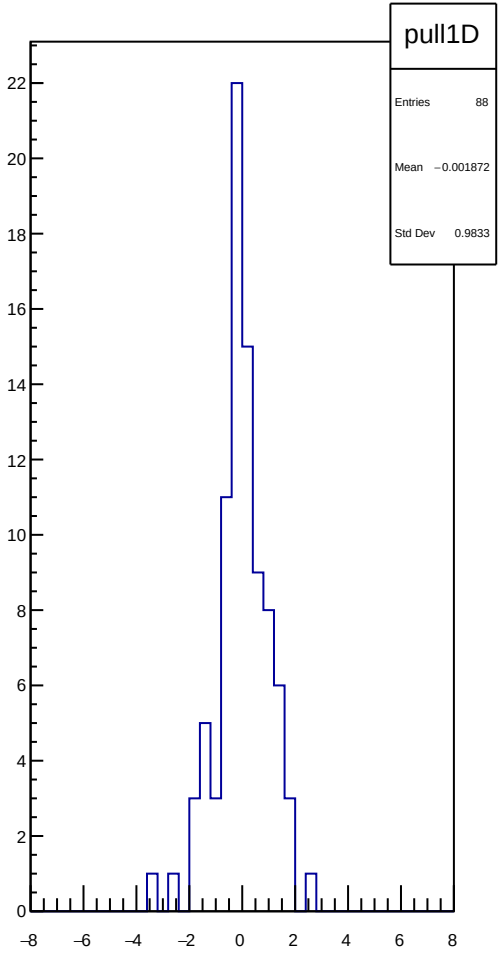

diff_bpm0r03X_rms vs run
χ² / ndf 1.878e+04 / 87
p0 5.947e+04 ± 45.96
90000
85000
80000
75000
70000
65000
60000
55000
50000
45000

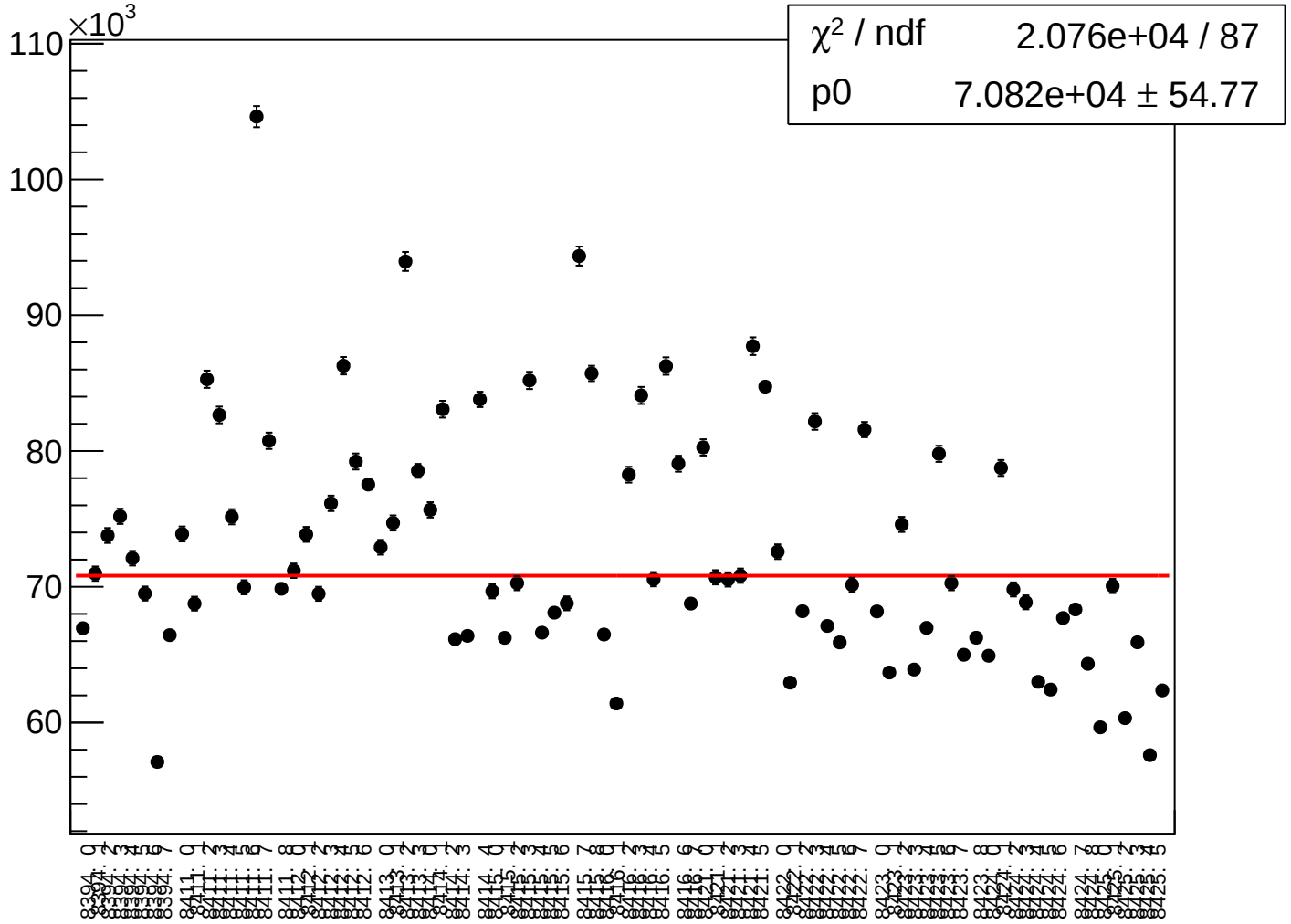

diff_bpm0r03Y_mean vs run
χ² / ndf 175.9 / 87
p0 −31.71 ± 1.369
pull
Entries 88
Mean −787.2
Std Dev 0

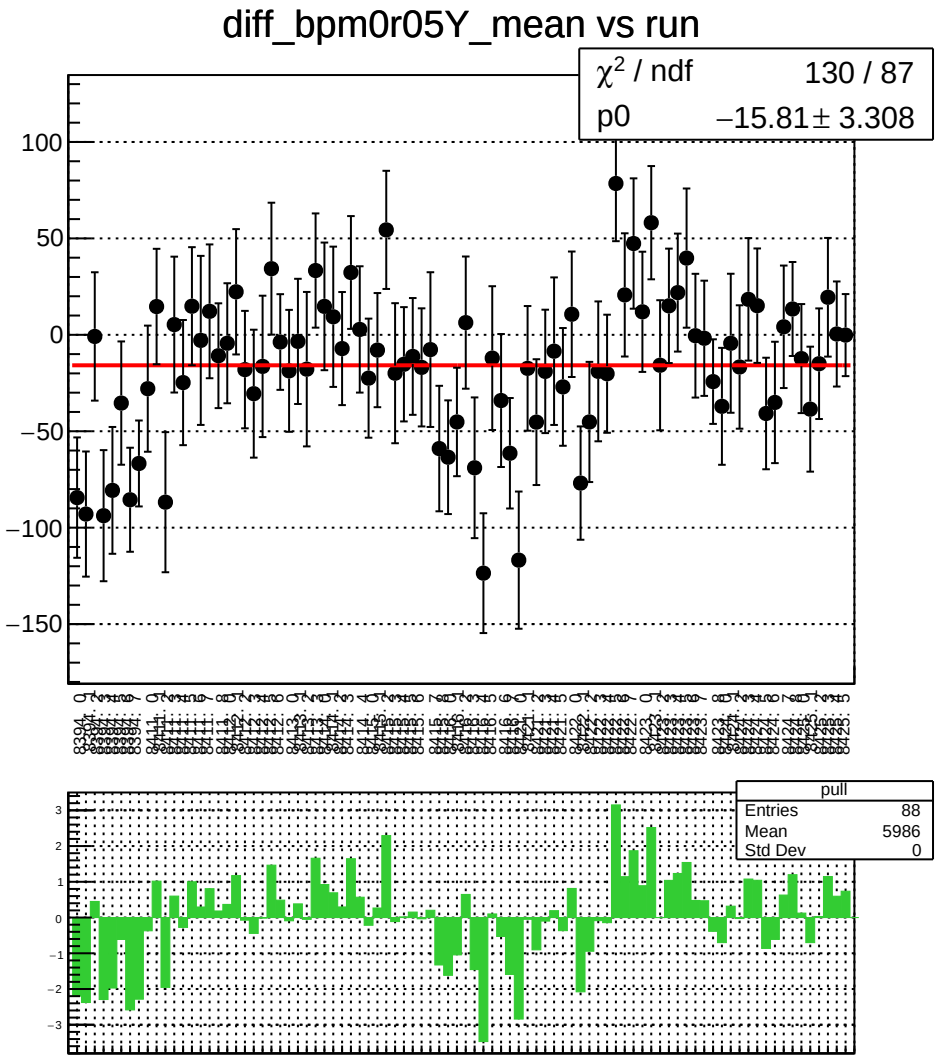

pull1D
Entries 88
Mean −0.009867
Std Dev 1.414

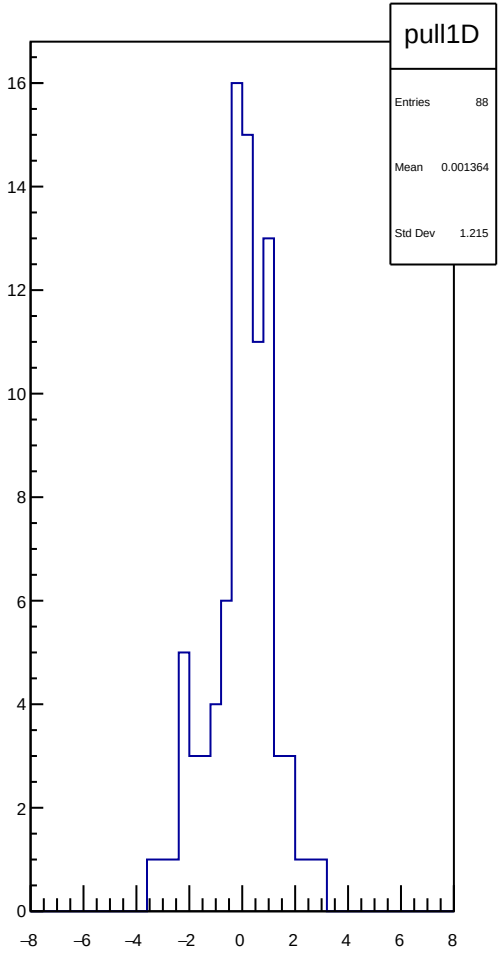

diff_bpm0r03Y_rms vs run
χ² / ndf 3704 / 87
p0 1258 ± 0.9678
1450
1400
1350
1300
1250
1200
1150

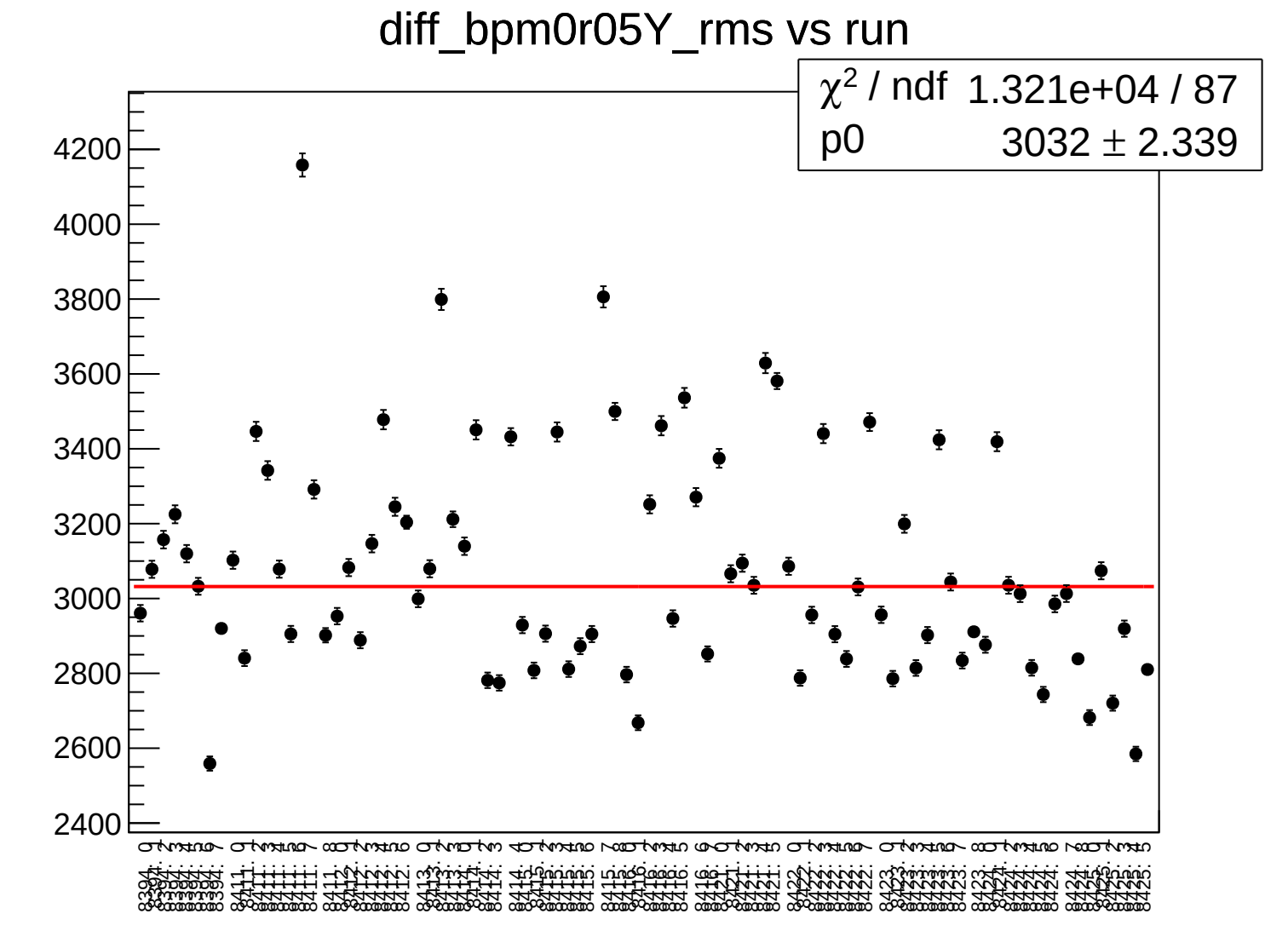

diff_bpm0r05X_mean vs run
χ² / ndf 85.09 / 87
p0 181.8 ± 77.45
pull
Entries 88
Mean −820.4
Std Dev 0

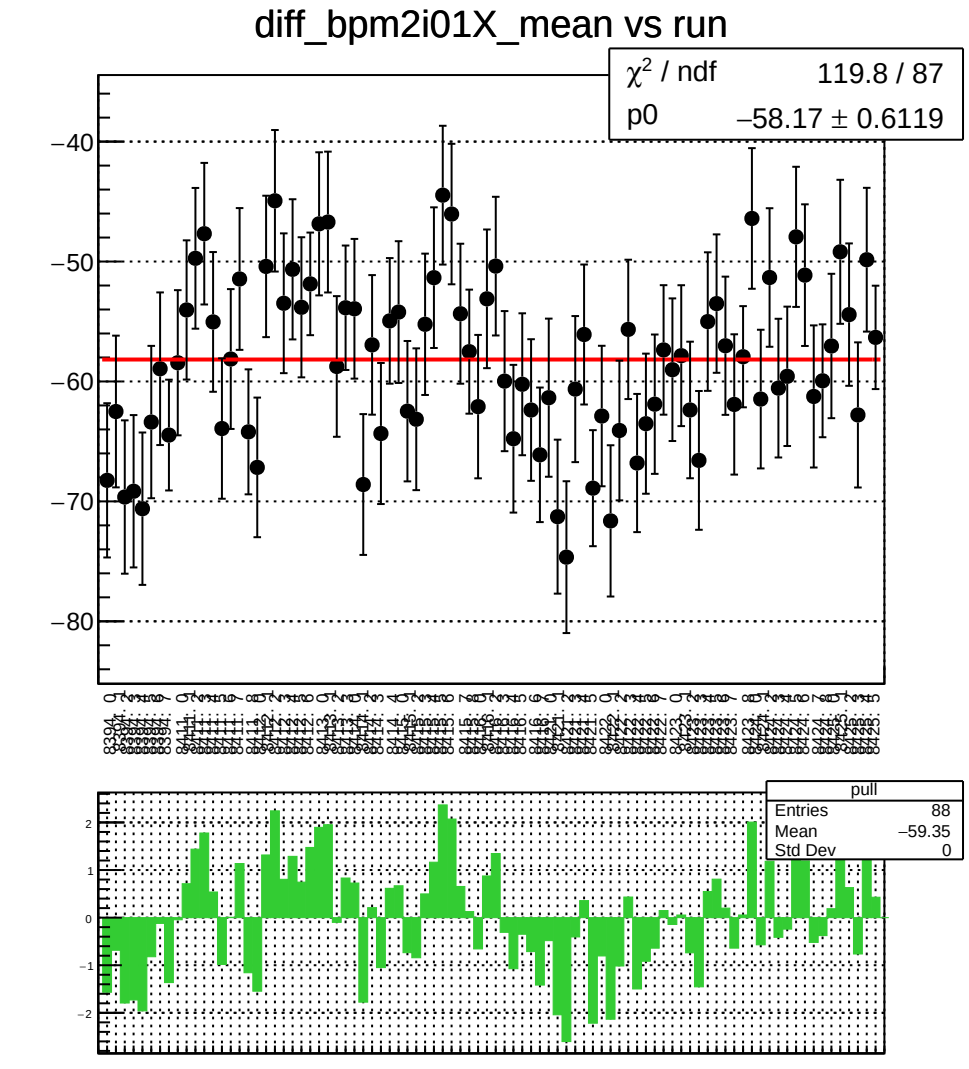

pull1D
Entries 88
Mean −0.001872
Std Dev 0.9833

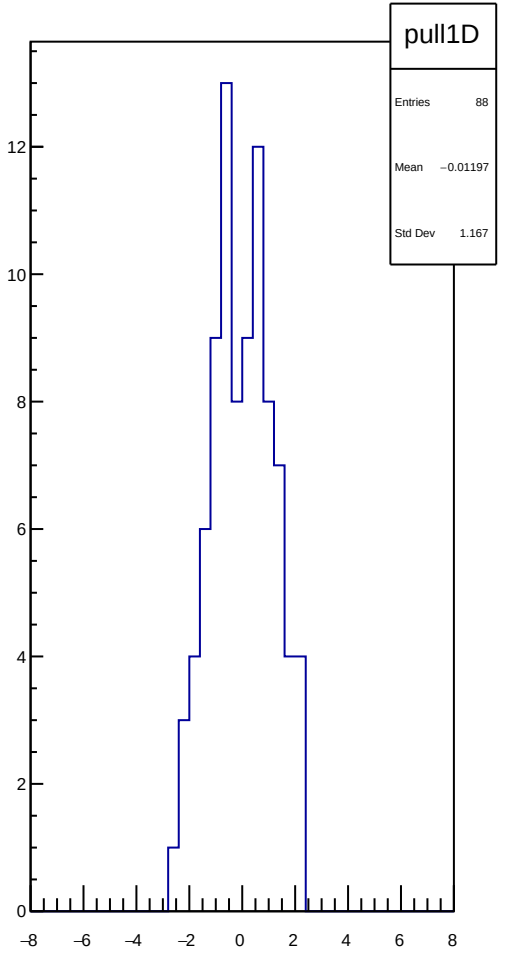

diff_bpm0r05X_rms vs run
×10^3
110
100
90
80
70
60
χ² / ndf 2.076e+04 / 87
p0 7.082e+04 ± 54.77

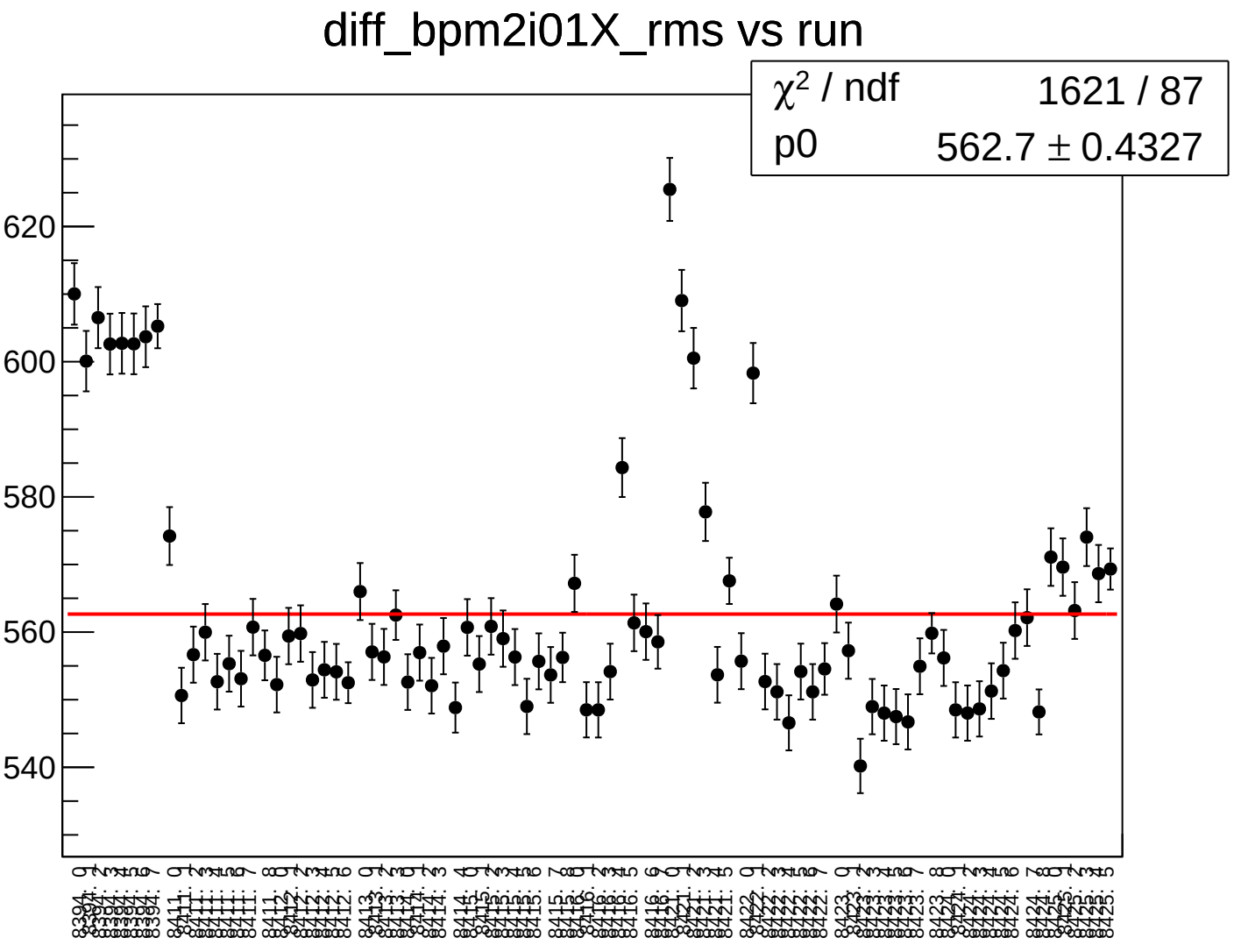

diff_bpm0r05Y_mean vs run
χ^2 / ndf 130 / 87
p0 −15.81± 3.308
100
50
0
−50
−100
−150
pull
Entries 88
Mean 5986
Std Dev 0
3
2
1
0
−1
−2
−3

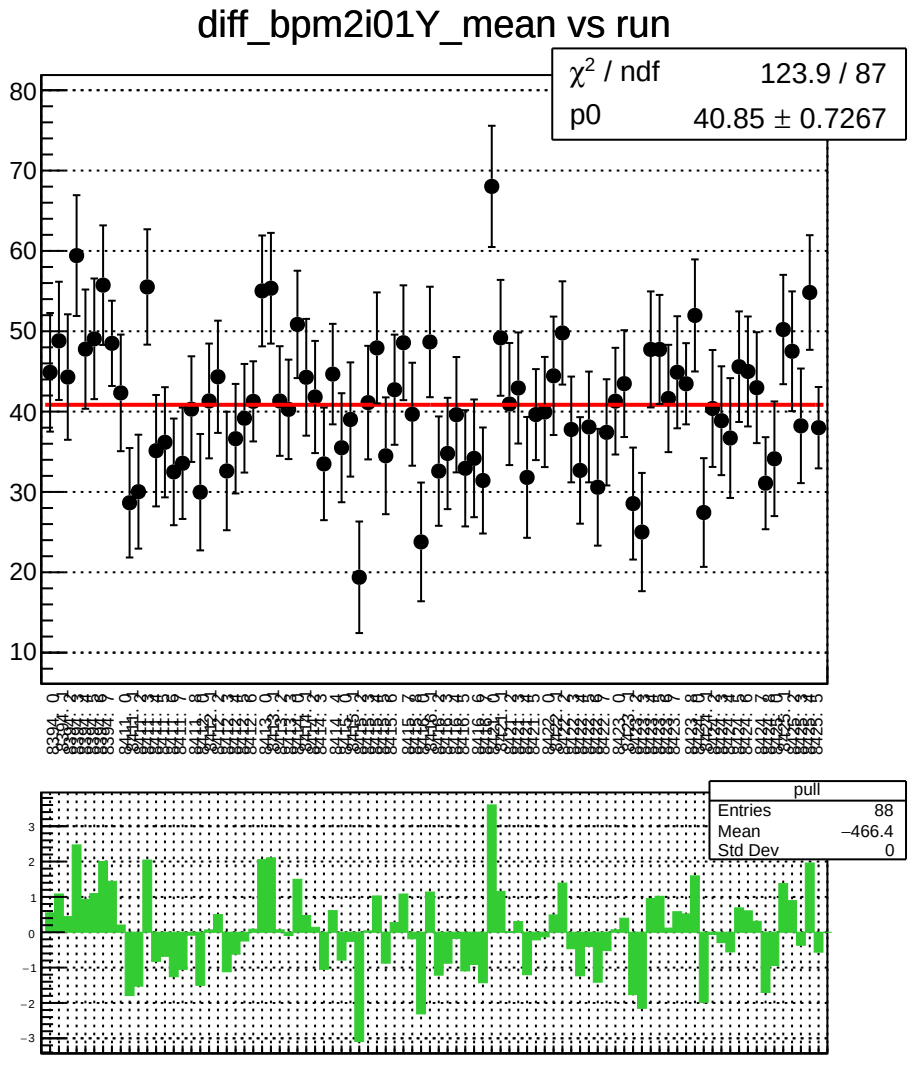

pull1D
Entries 88
Mean 0.001364
Std Dev 1.215
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

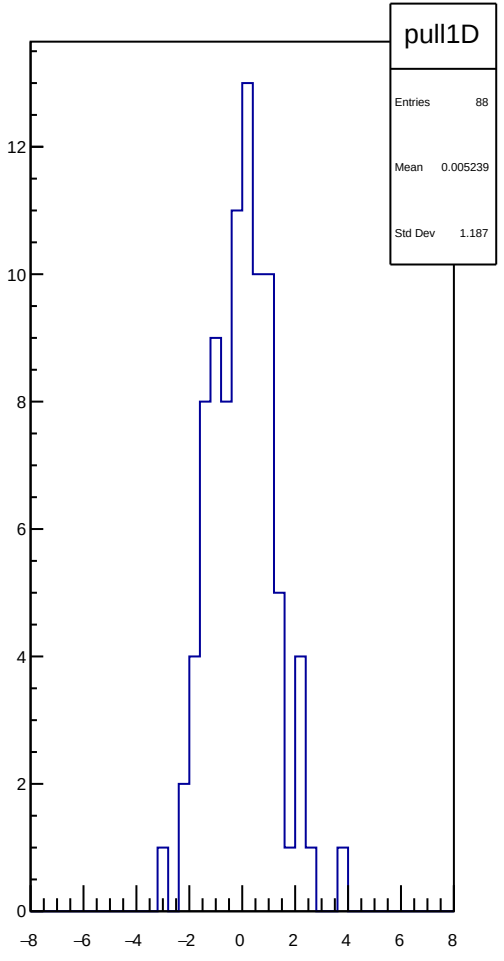

diff_bpm0r05Y_rms vs run
χ² / ndf 1.321e+04 / 87
p0 3032 ± 2.339
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400

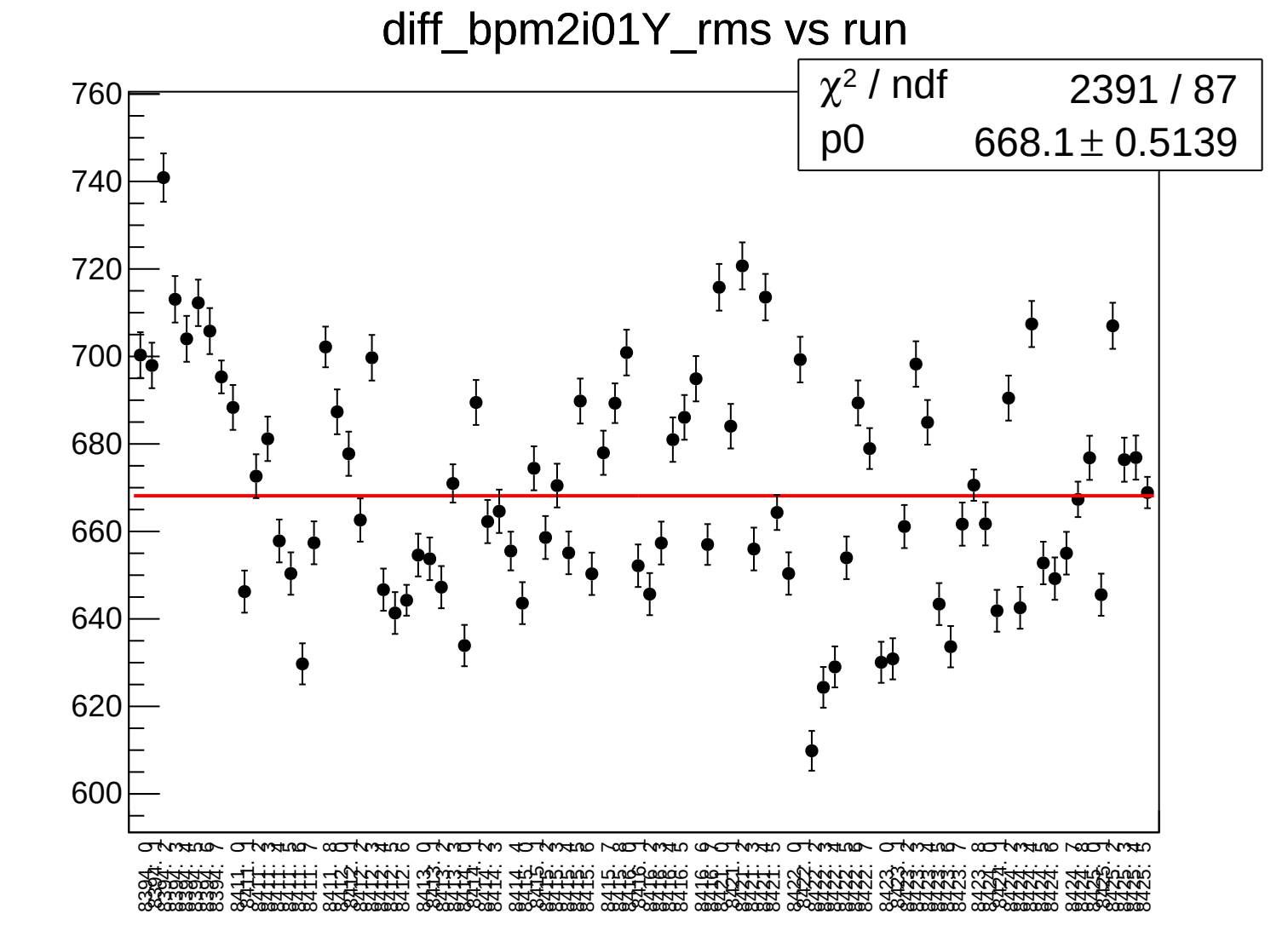

diff_bpm2i01X_mean vs run
χ² / ndf 119.8 / 87
p0 −58.17 ± 0.6119
−40
−50
−60
−70
−80
pull
Entries 88
Mean −59.35
Std Dev 0
2
1
0
−1
−2

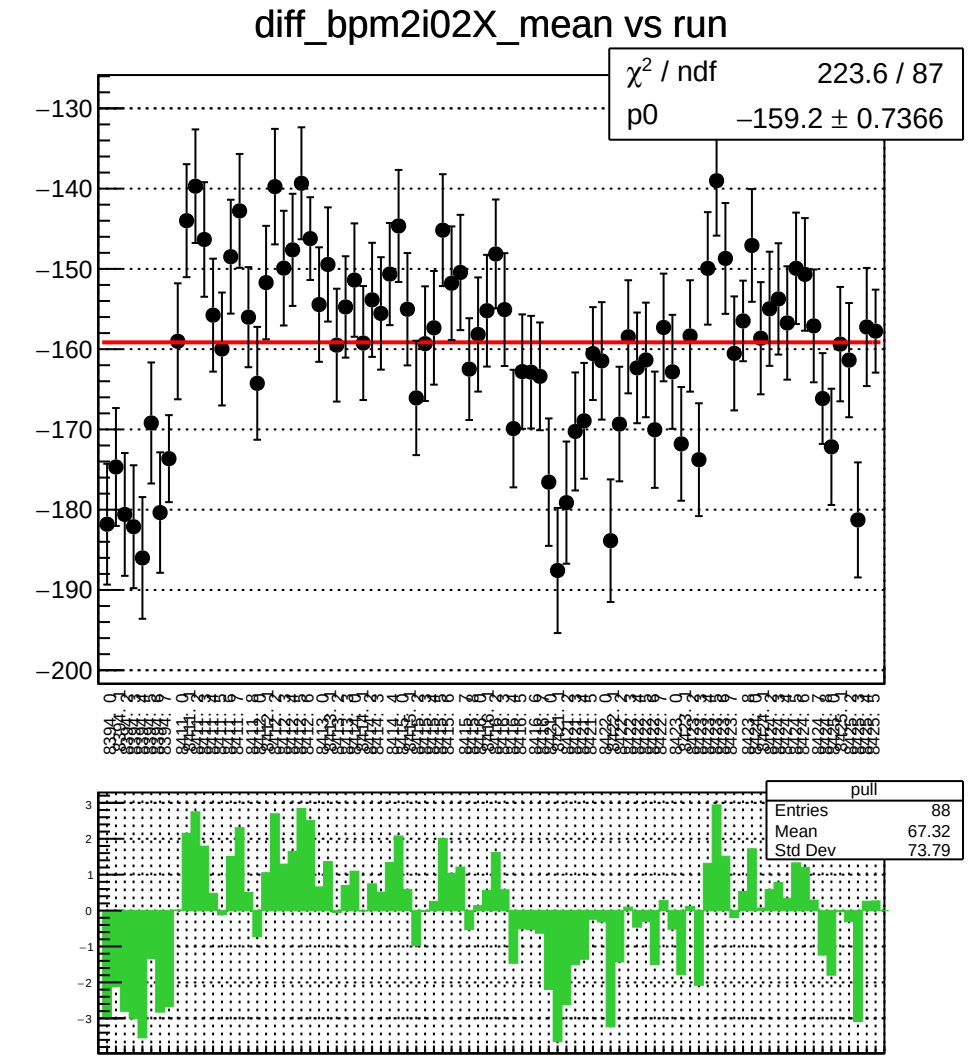

pull1D
Entries 88
Mean −0.01197
Std Dev 1.167
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

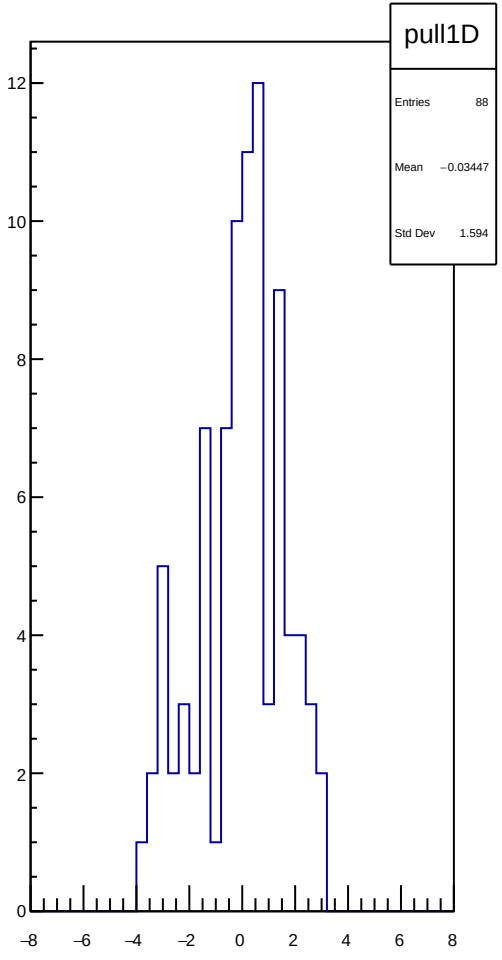

diff_bpm2i01X_rms vs run
χ² / ndf 1621 / 87
p0 562.7 ± 0.4327
620
600
580
560
540

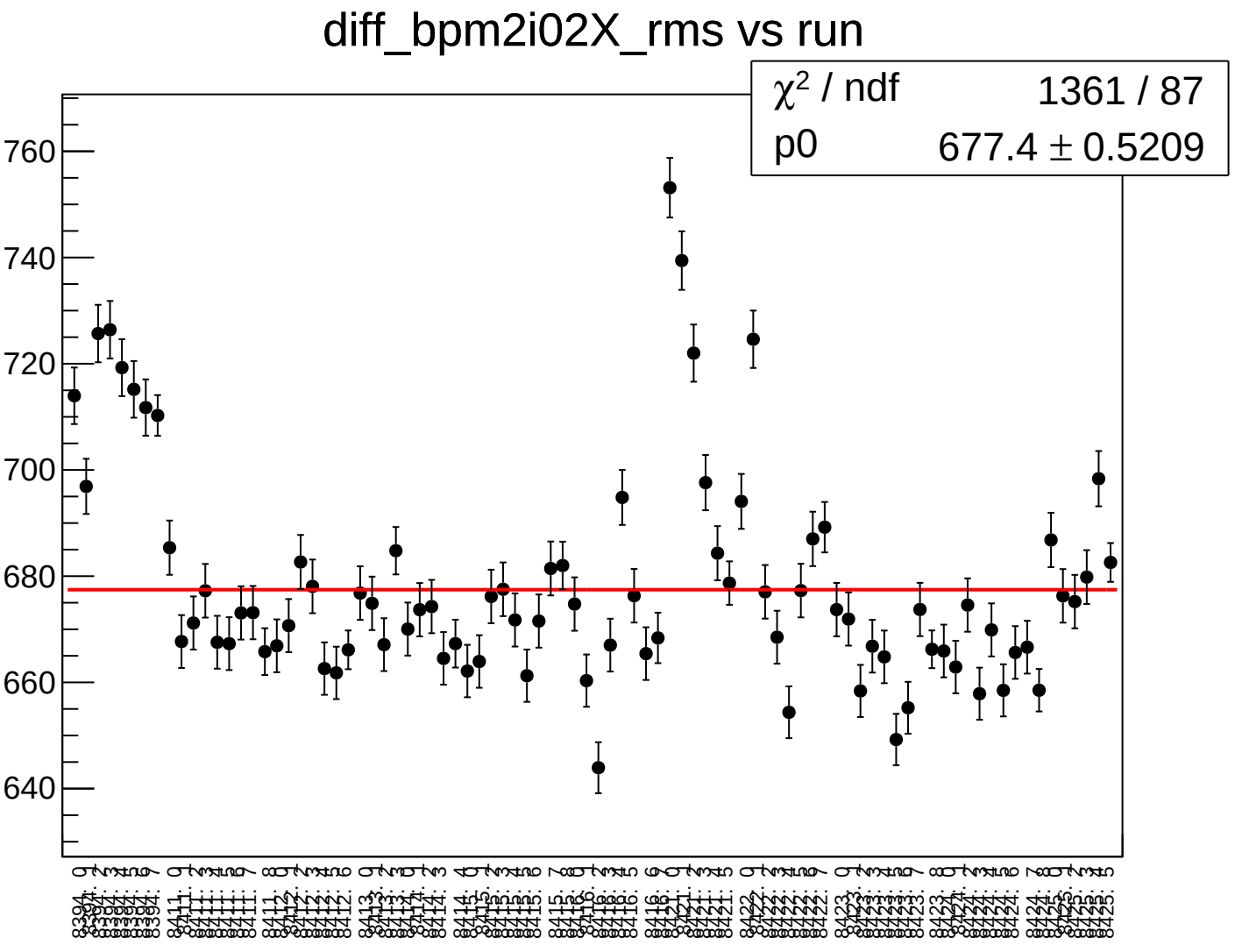

diff_bpm2i01Y_mean vs run
χ² / ndf 123.9 / 87
p0 40.85 ± 0.7267
pull
Entries 88
Mean −466.4
Std Dev 0

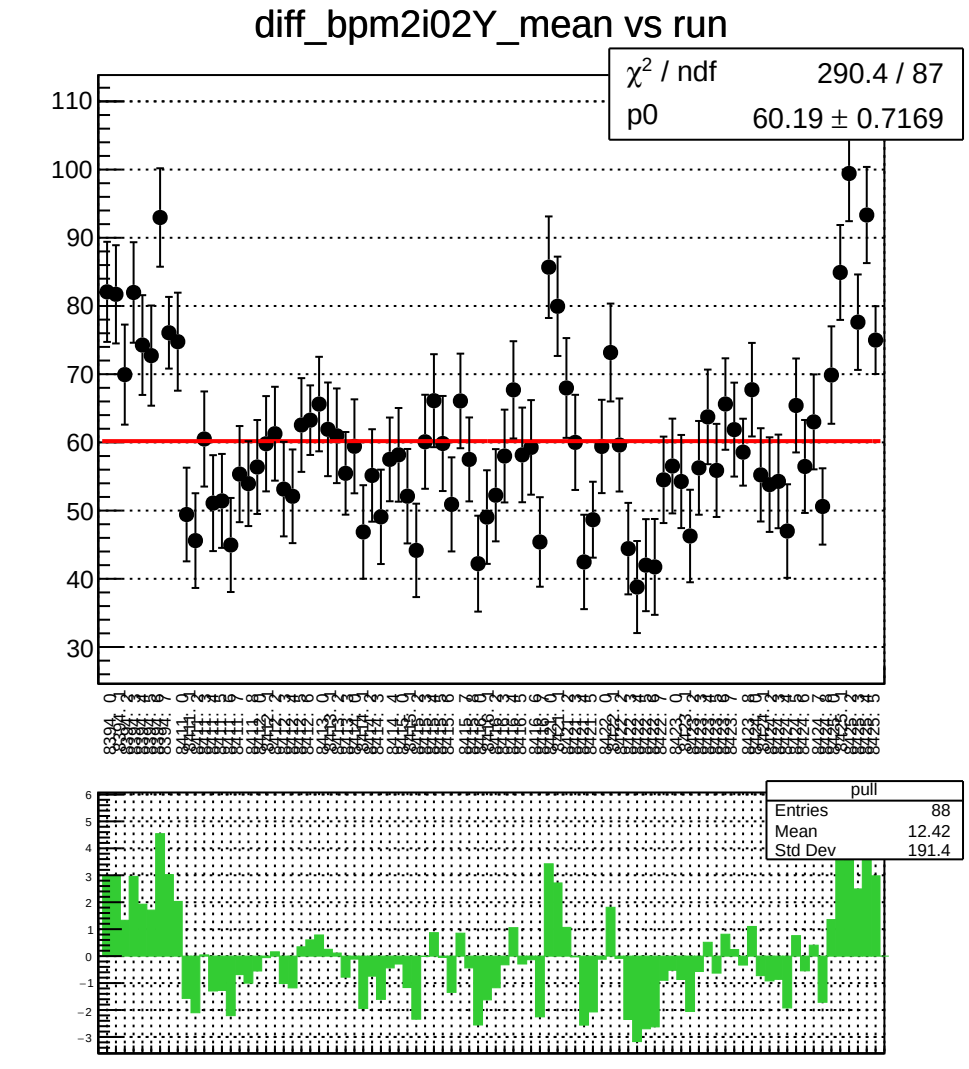

pull1D
Entries 88
Mean 0.005239
Std Dev 1.187

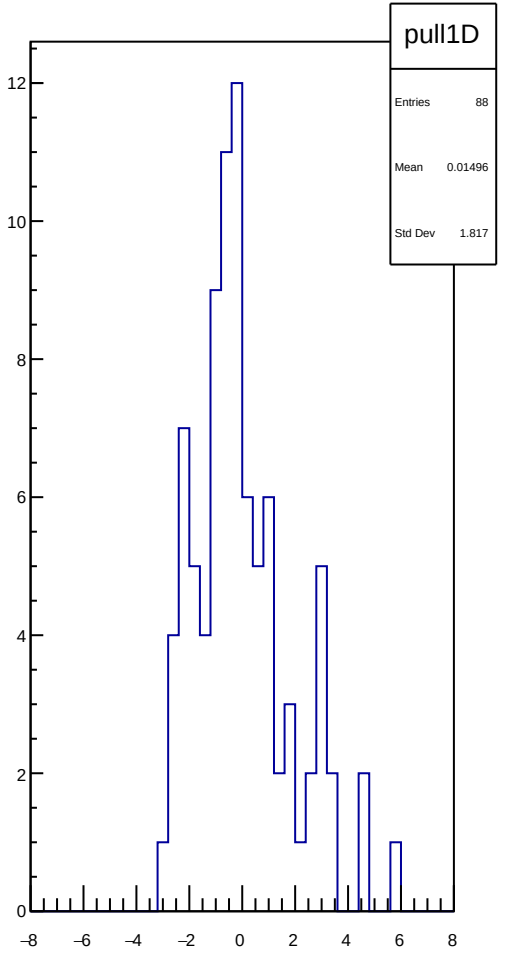

diff_bpm2i01Y_rms vs run
χ² / ndf 2391 / 87
p0 668.1 ± 0.5139
760
740
720
700
680
660
640
620
600

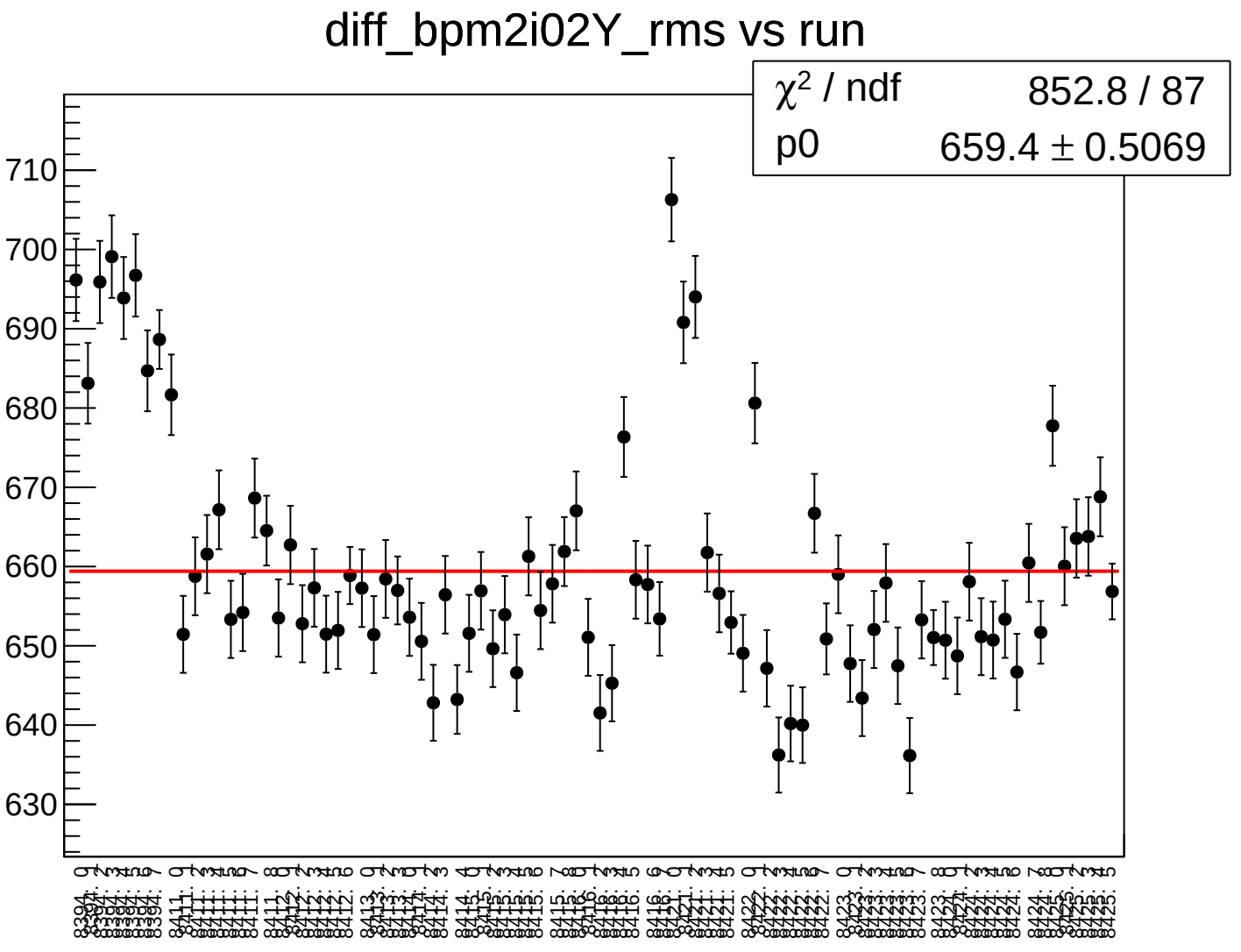

diff_bpm2i02X_mean vs run
χ² / ndf 223.6 / 87
p0 −159.2 ± 0.7366
pull
Entries 88
Mean 67.32
Std Dev 73.79

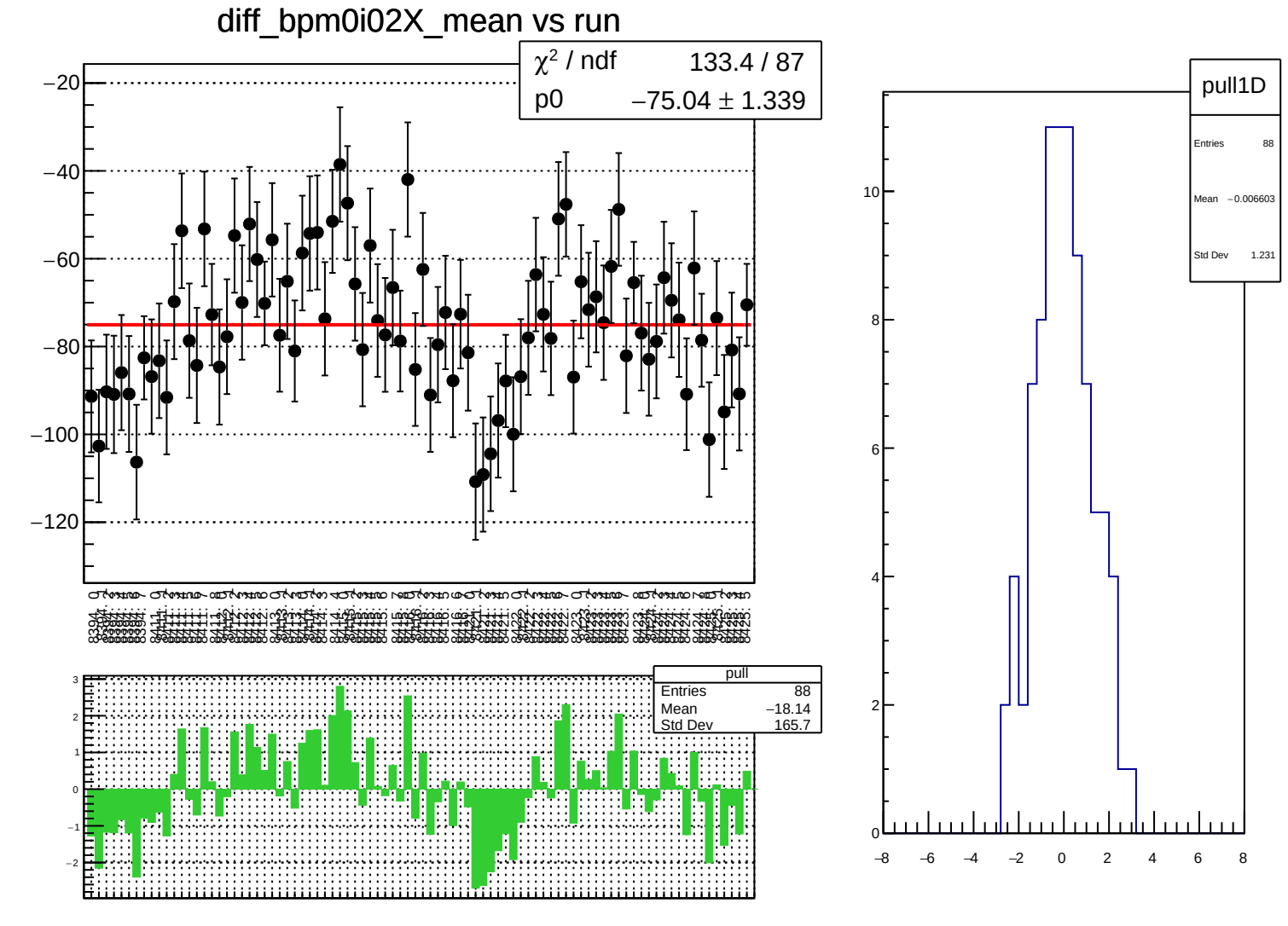

pull1D
Entries 88
Mean −0.03447
Std Dev 1.594

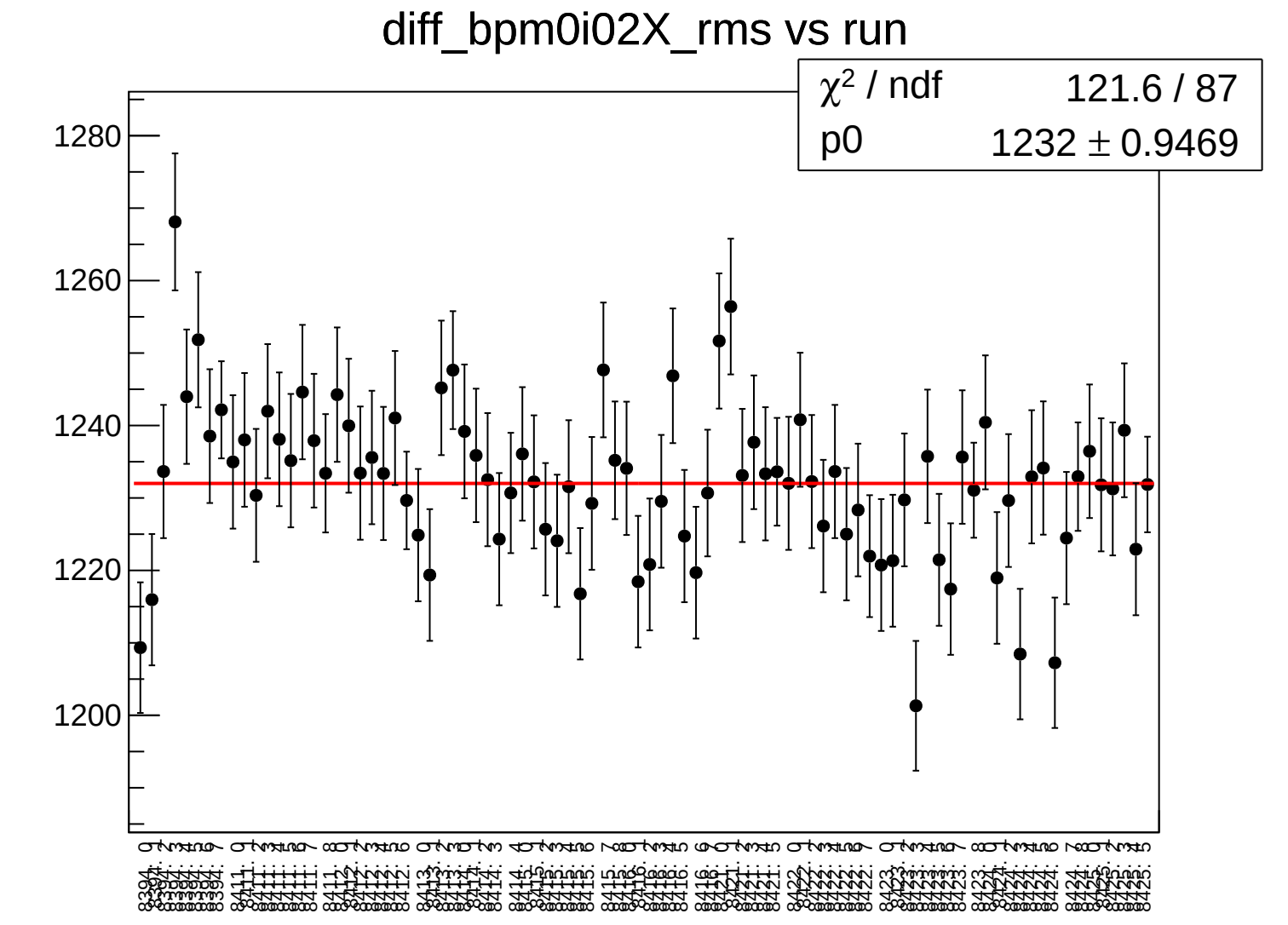

diff_bpm2i02X_rms vs run
χ² / ndf 1361 / 87
p0 677.4 ± 0.5209
760
740
720
700
680
660
640

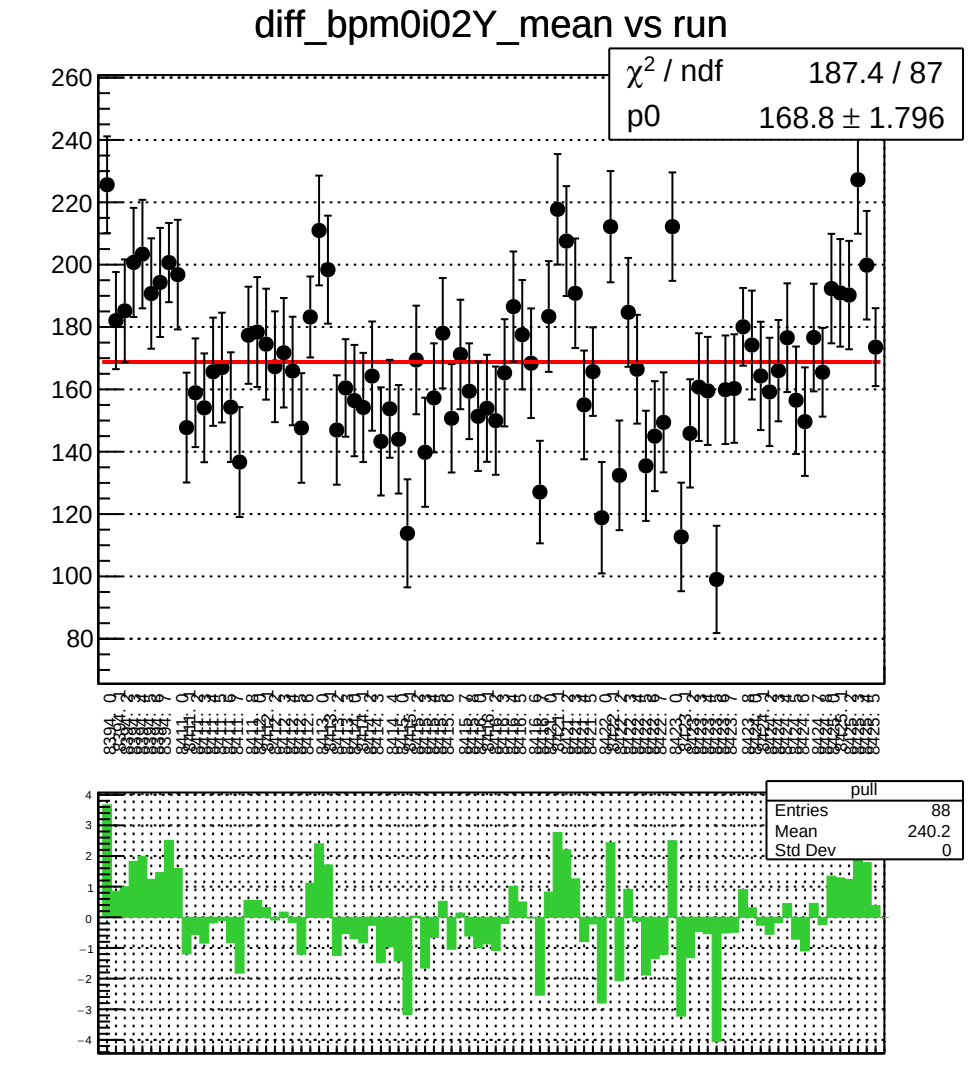

diff_bpm2i02Y_mean vs run
χ² / ndf 290.4 / 87
p0 60.19 ± 0.7169
pull
Entries 88
Mean 12.42
Std Dev 191.4

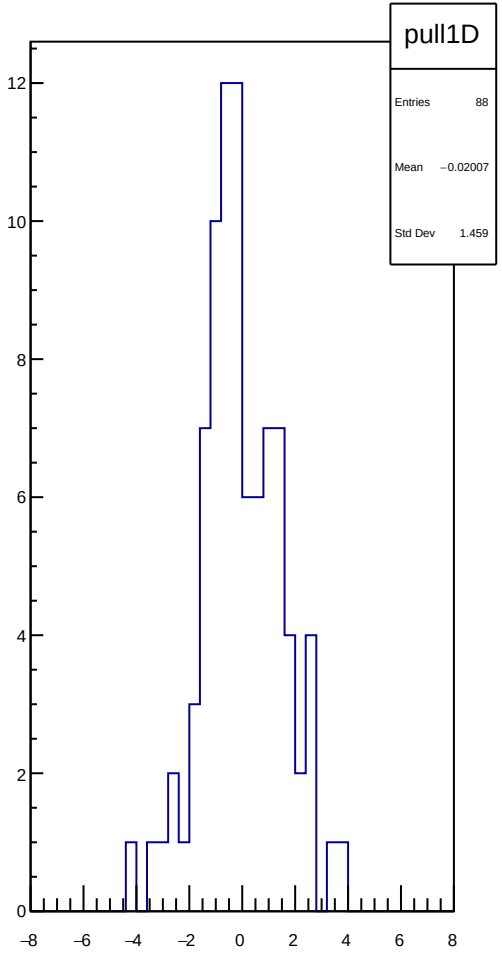

pull1D
Entries 88
Mean 0.01496
Std Dev 1.817

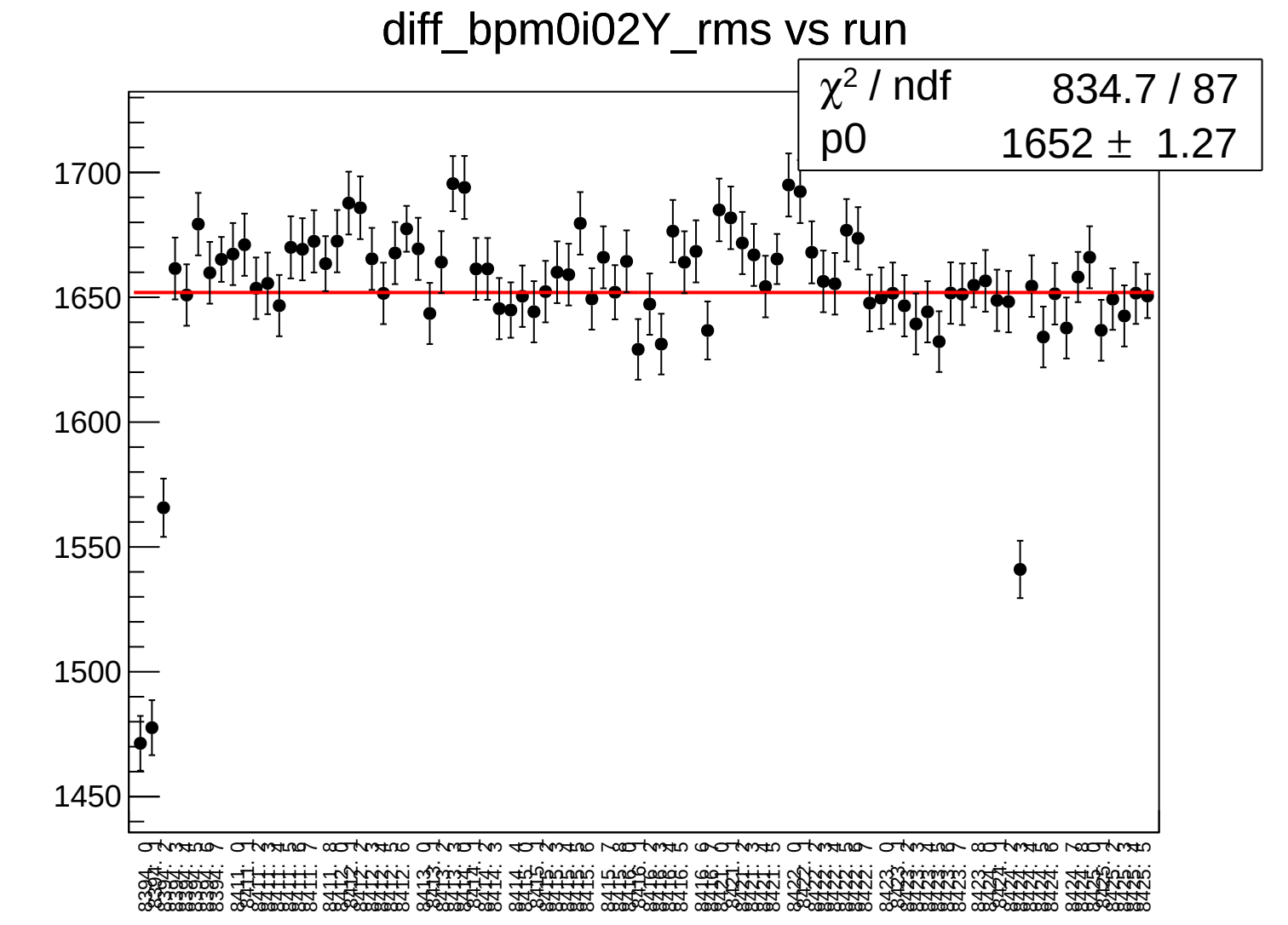

diff_bpm2i02Y_rms vs run
χ² / ndf 852.8 / 87
p0 659.4 ± 0.5069
710
700
690
680
670
660
650
640
630

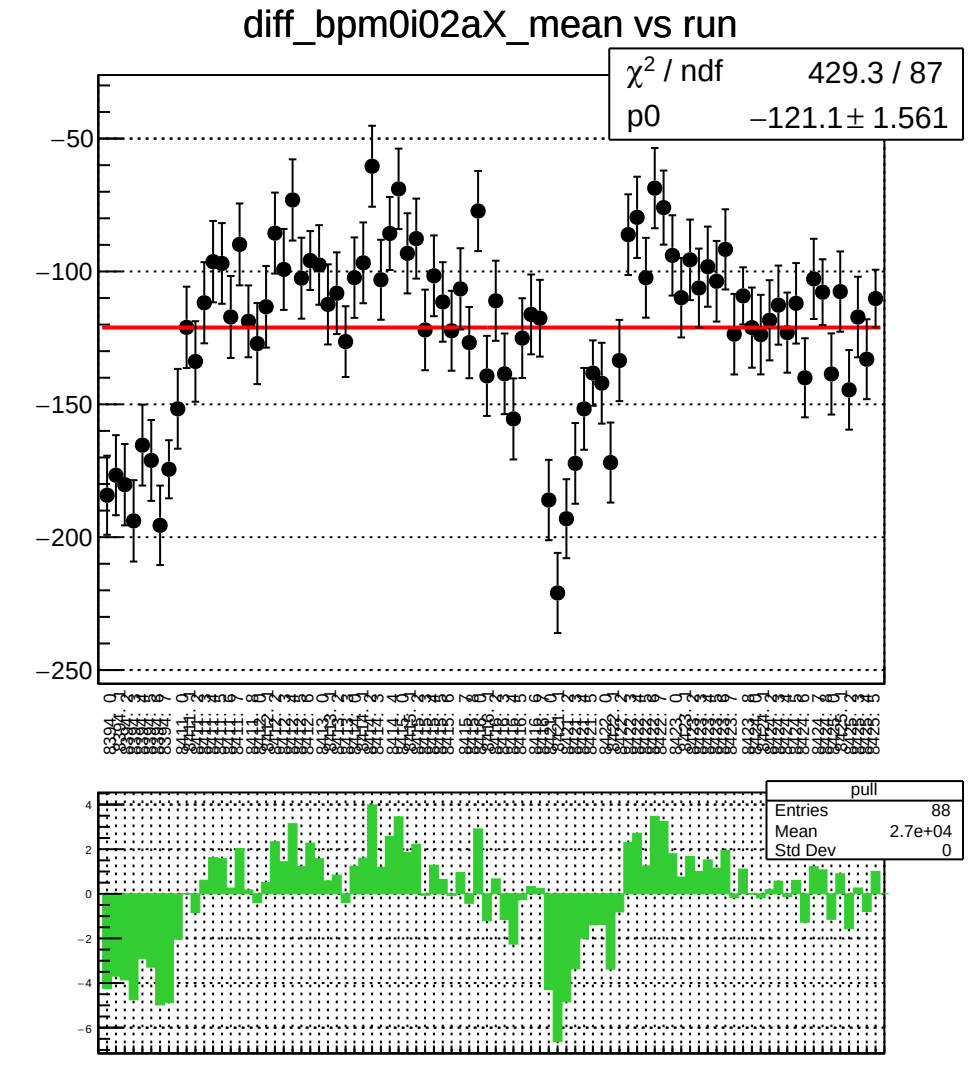

diff_bpm0i02X_mean vs run
χ² / ndf 133.4 / 87
p0 −75.04 ± 1.339
−20
−40
−60
−80
−100
−120
pull
Entries 88
Mean −18.14
Std Dev 165.7
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.006603
Std Dev 1.231
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

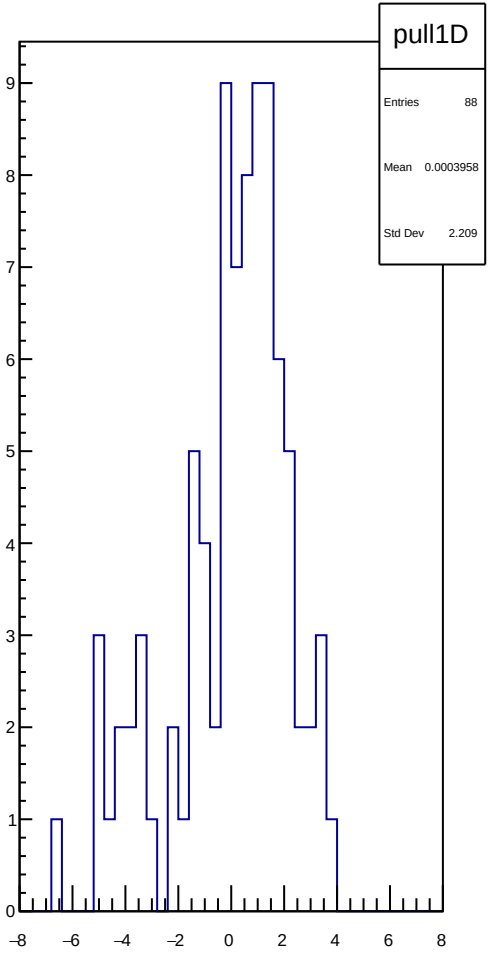

diff_bpm0i02X_rms vs run
χ² / ndf 121.6 / 87
p0 1232 ± 0.9469
1280
1260
1240
1220
1200

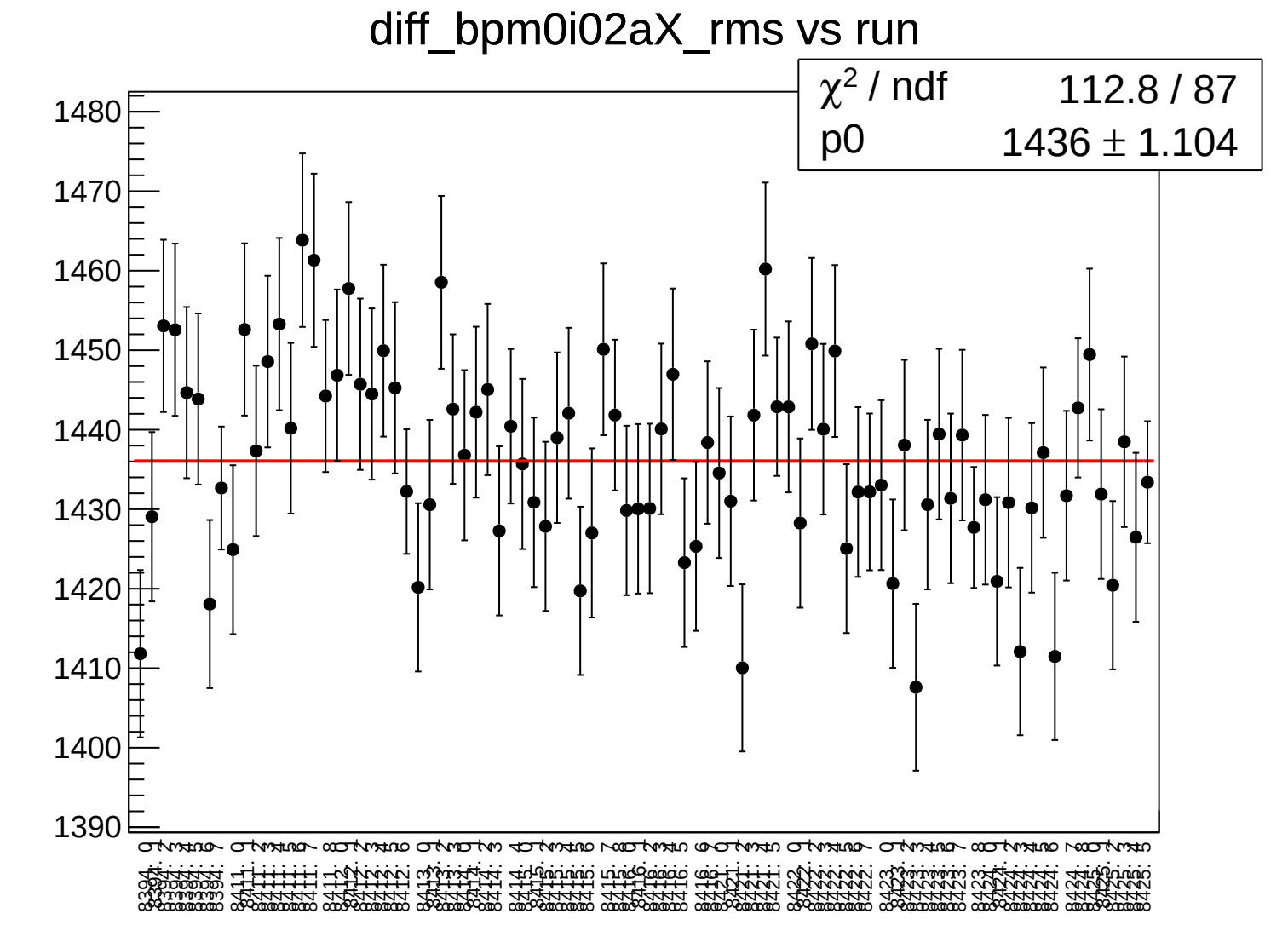

diff_bpm0i02Y_mean vs run
χ^2 / ndf 187.4 / 87
p0 168.8 ± 1.796
pull
Entries 88
Mean 240.2
Std Dev 0

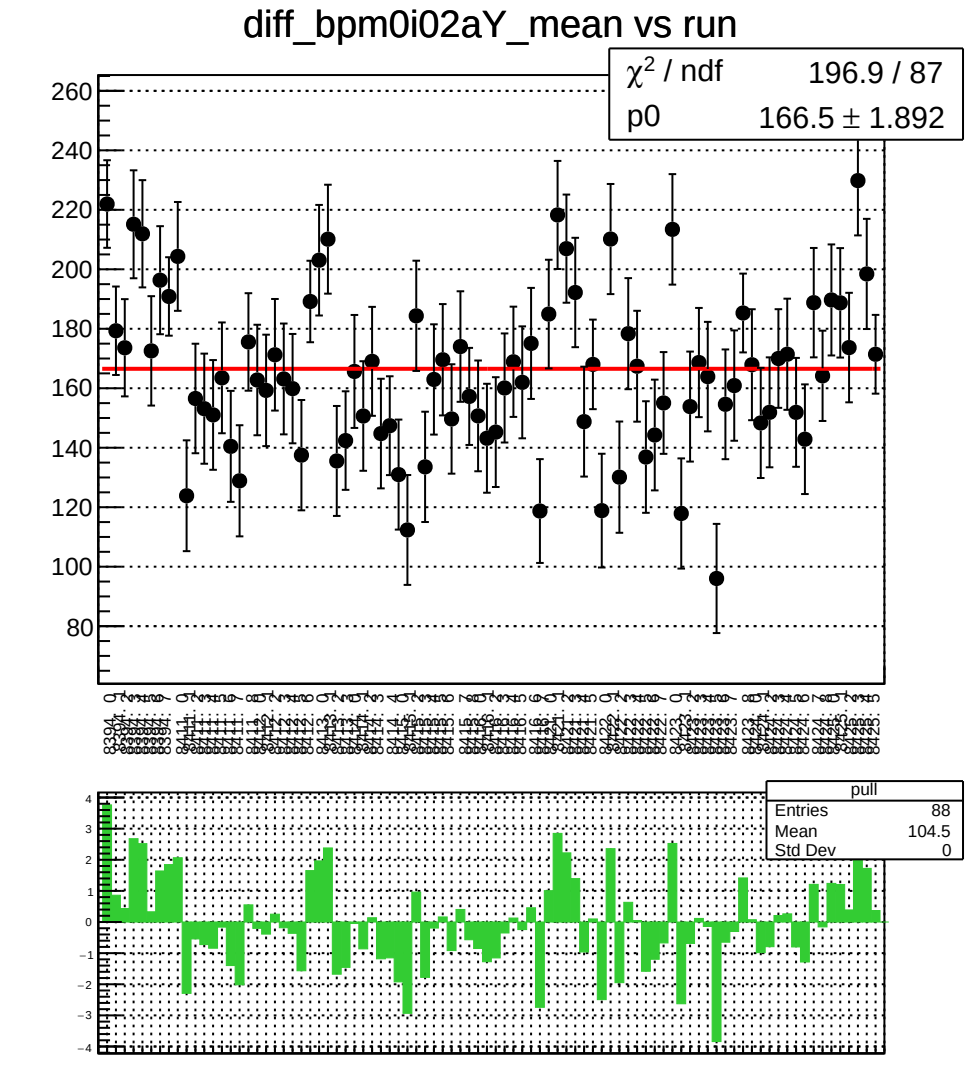

pull1D
Entries 88
Mean −0.02007
Std Dev 1.459

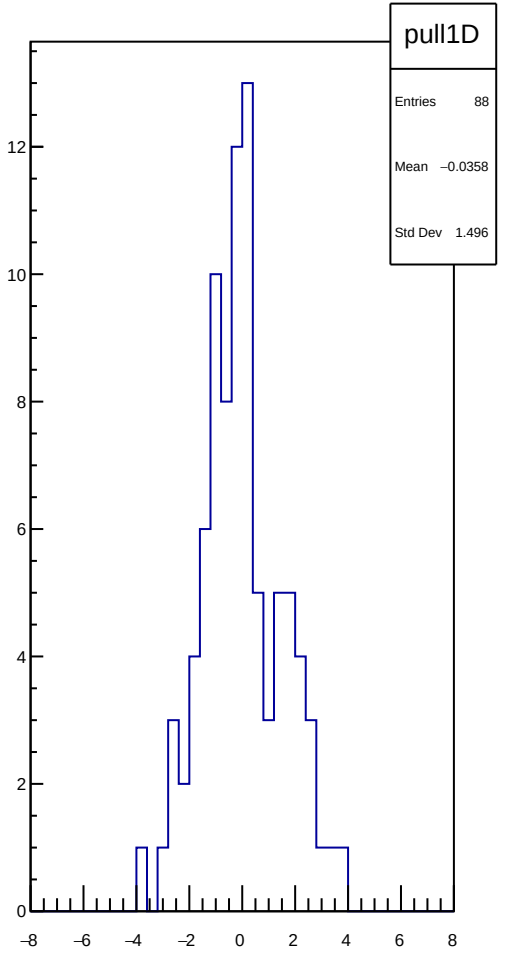

diff_bpm0i02Y_rms vs run
χ² / ndf 834.7 / 87
p0 1652 ± 1.27
1700
1650
1600
1550
1500
1450

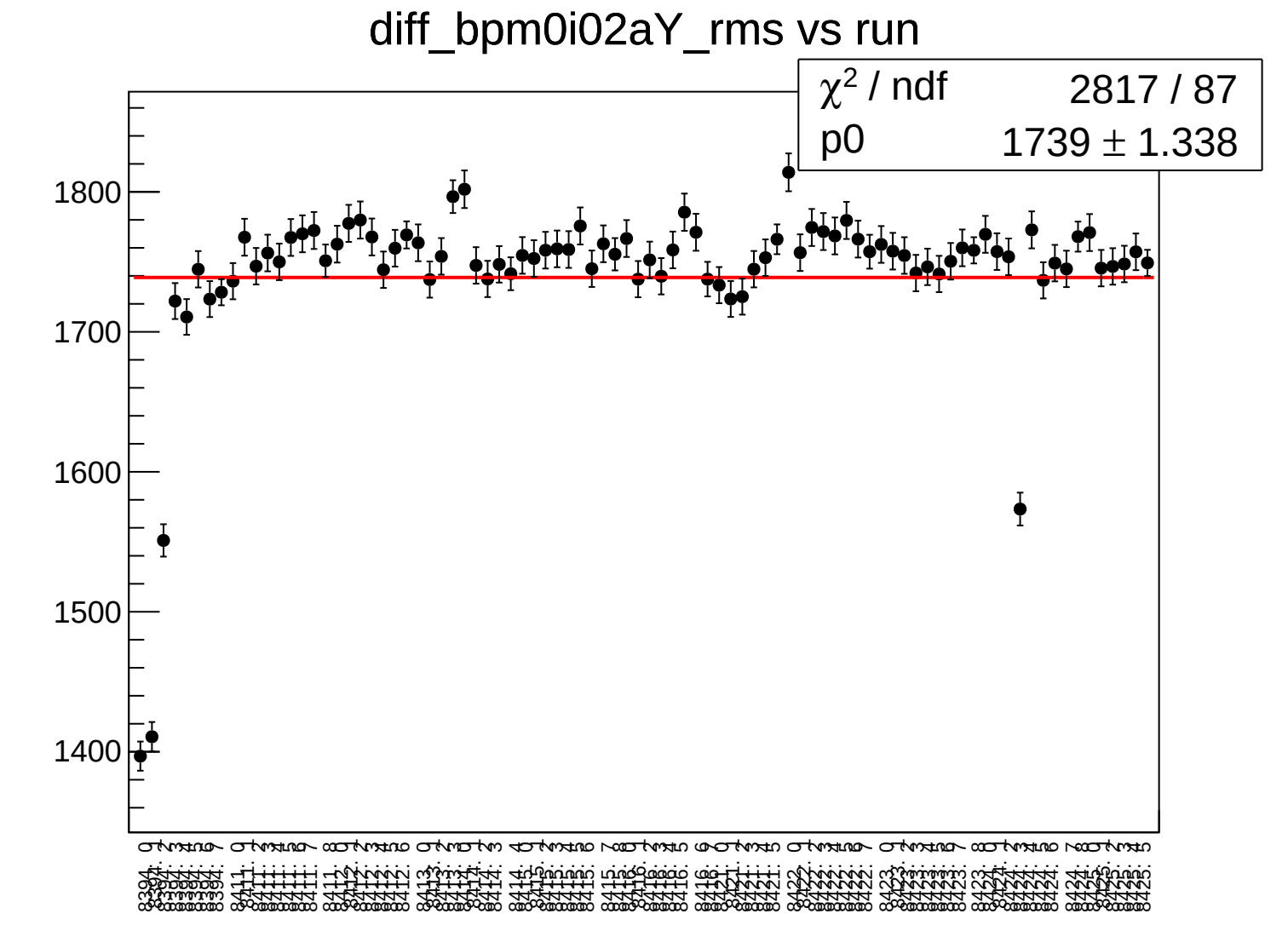

diff_bpm0i02aX_mean vs run
χ² / ndf 429.3 / 87
p0 −121.1 ± 1.561
−50
−100
−150
−200
−250
pull
Entries 88
Mean 2.7e+04
Std Dev 0
4
2
0
−2
−4
−6

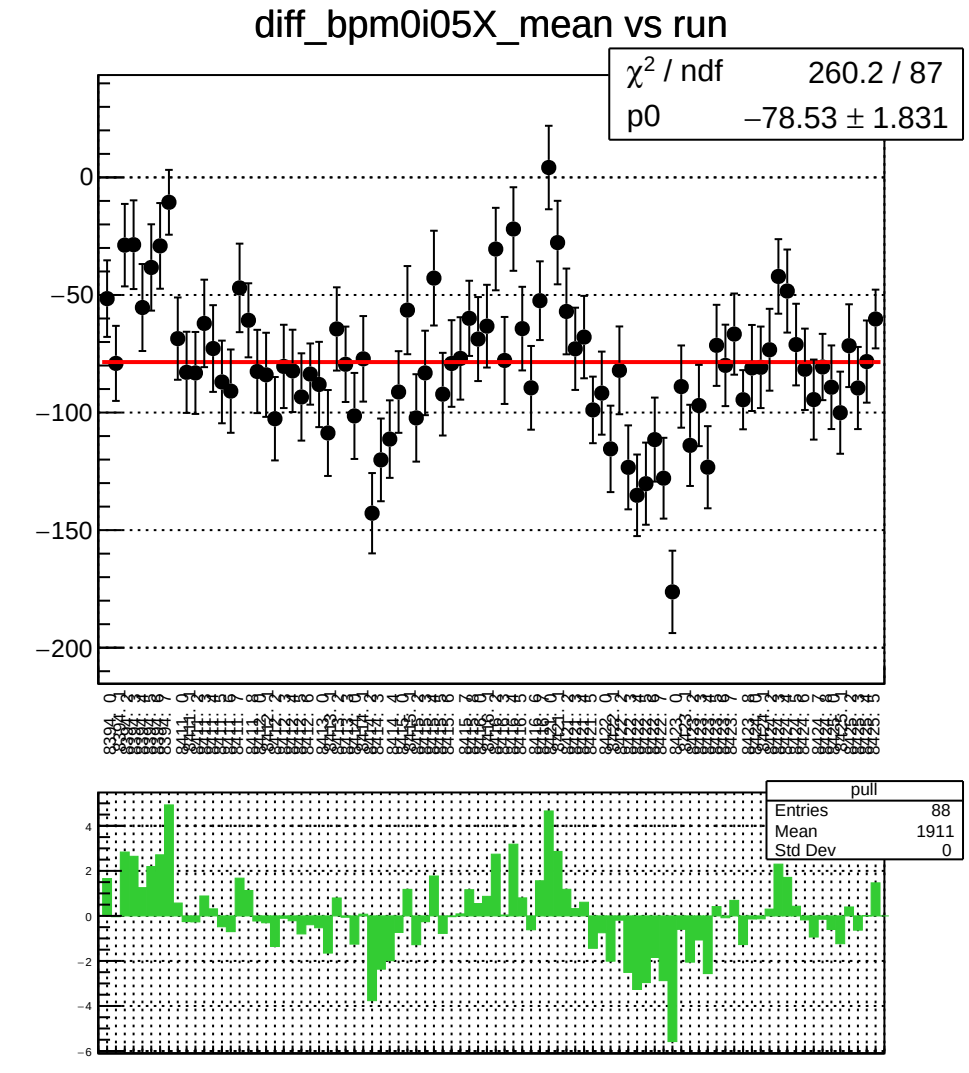

pull1D
Entries 88
Mean 0.0003958
Std Dev 2.209
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

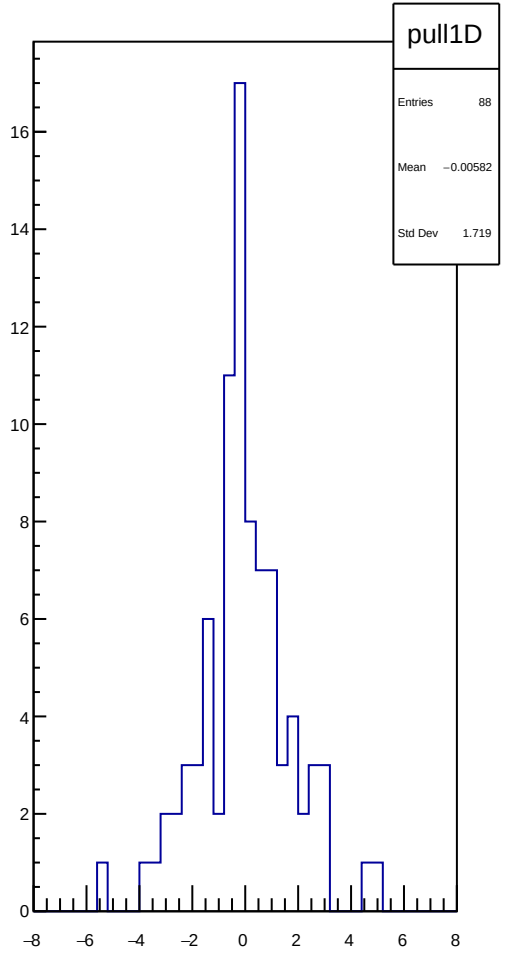

diff_bpm0i02aX_rms vs run
χ² / ndf 112.8 / 87
p0 1436 ± 1.104
1480
1470
1460
1450
1440
1430
1420
1410
1400
1390

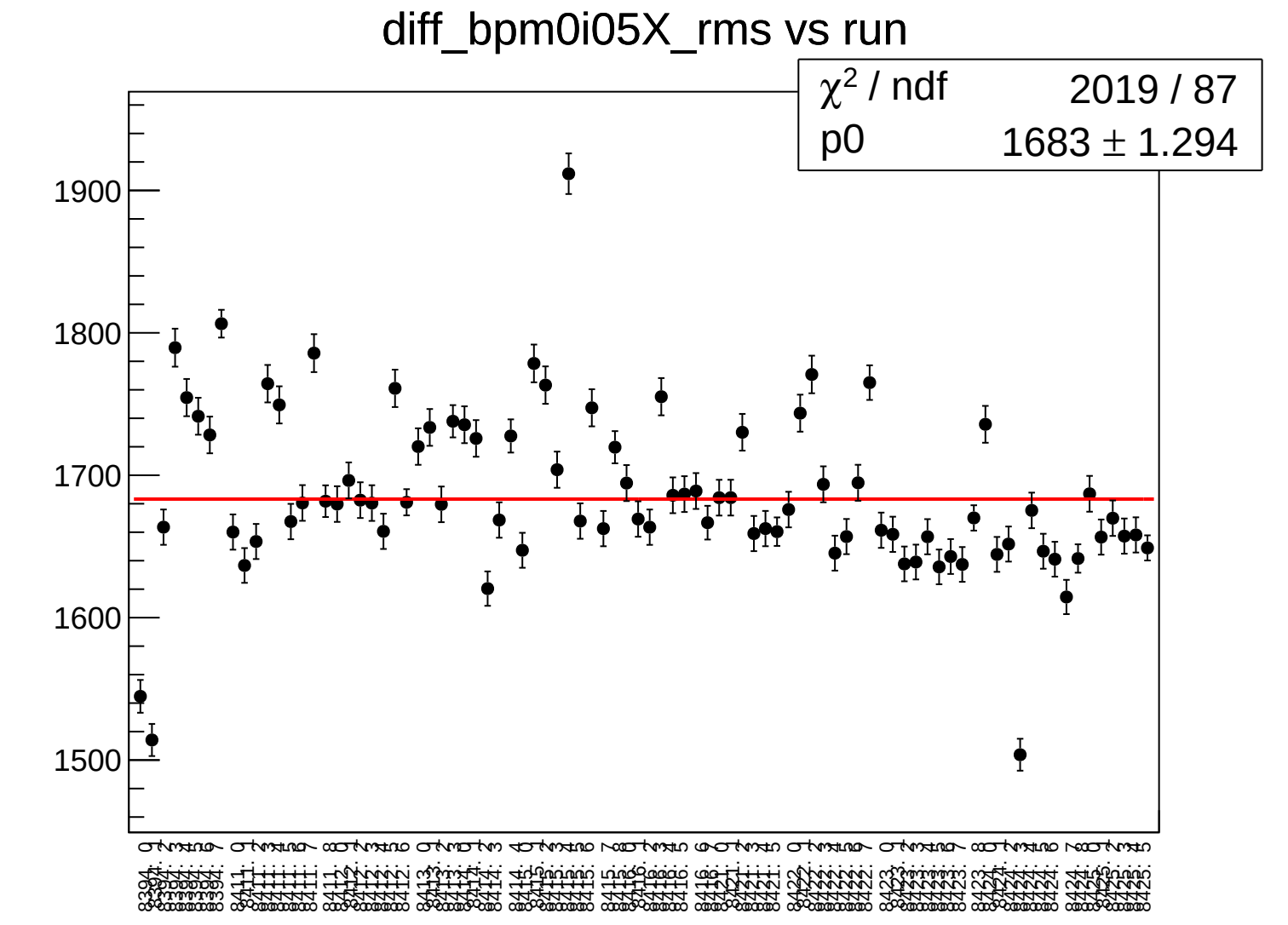

diff_bpm0i02aY_mean vs run
χ² / ndf 196.9 / 87
p0 166.5 ± 1.892
260
240
220
200
180
160
140
120
100
80
pull
Entries 88
Mean 104.5
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

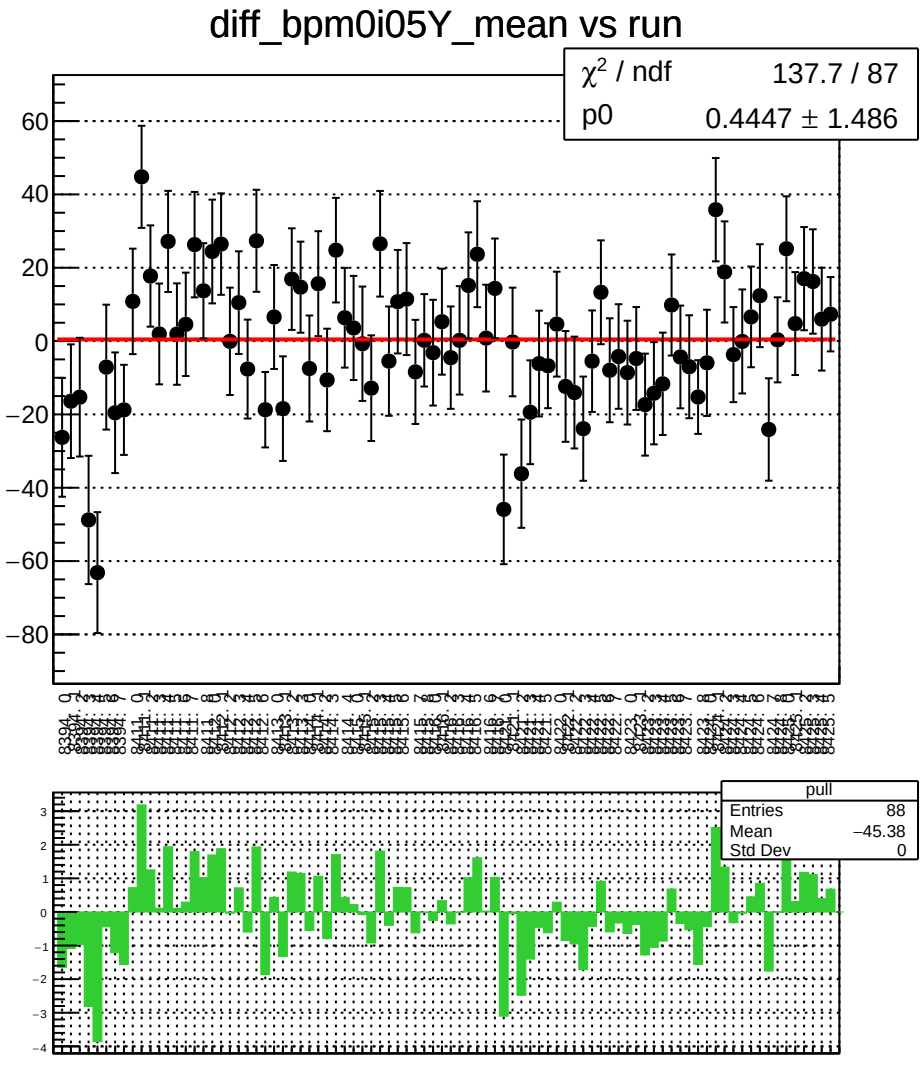

pull1D
Entries 88
Mean −0.0358
Std Dev 1.496
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

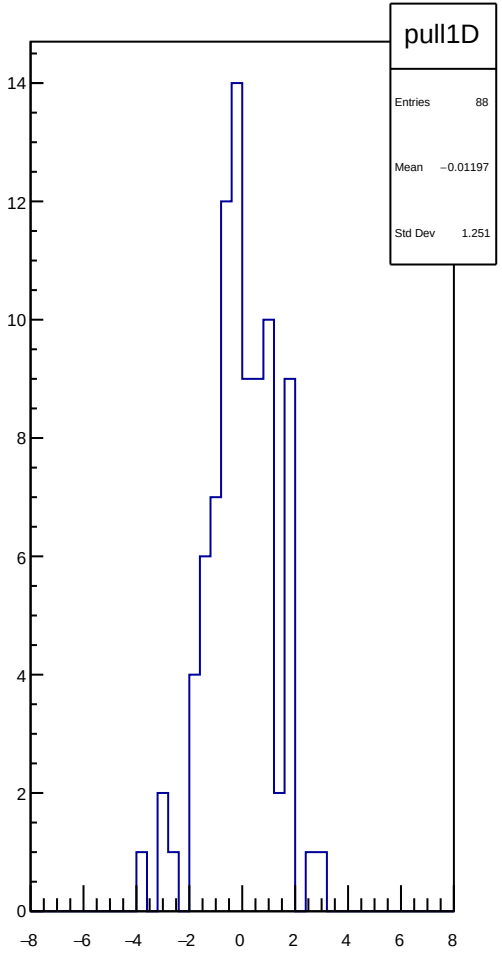

diff_bpm0i02aY_rms vs run
χ² / ndf 2817 / 87
p0 1739 ± 1.338
1800
1700
1600
1500
1400

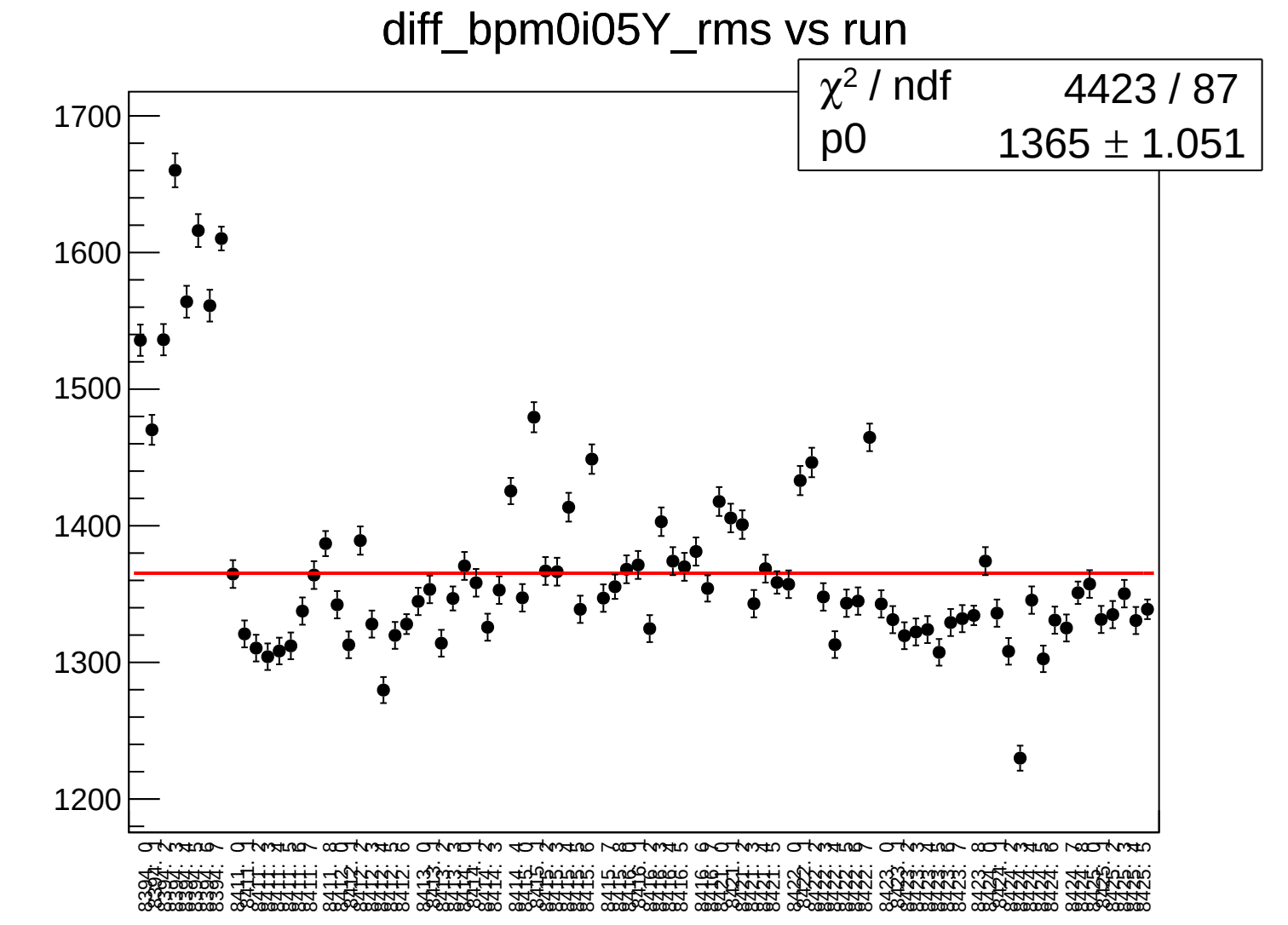

diff_bpm0i05X_mean vs run
χ² / ndf 260.2 / 87
p0 −78.53 ± 1.831
0
−50
−100
−150
−200
pull
Entries 88
Mean 1911
Std Dev 0
4
2
0
−2
−4
−6

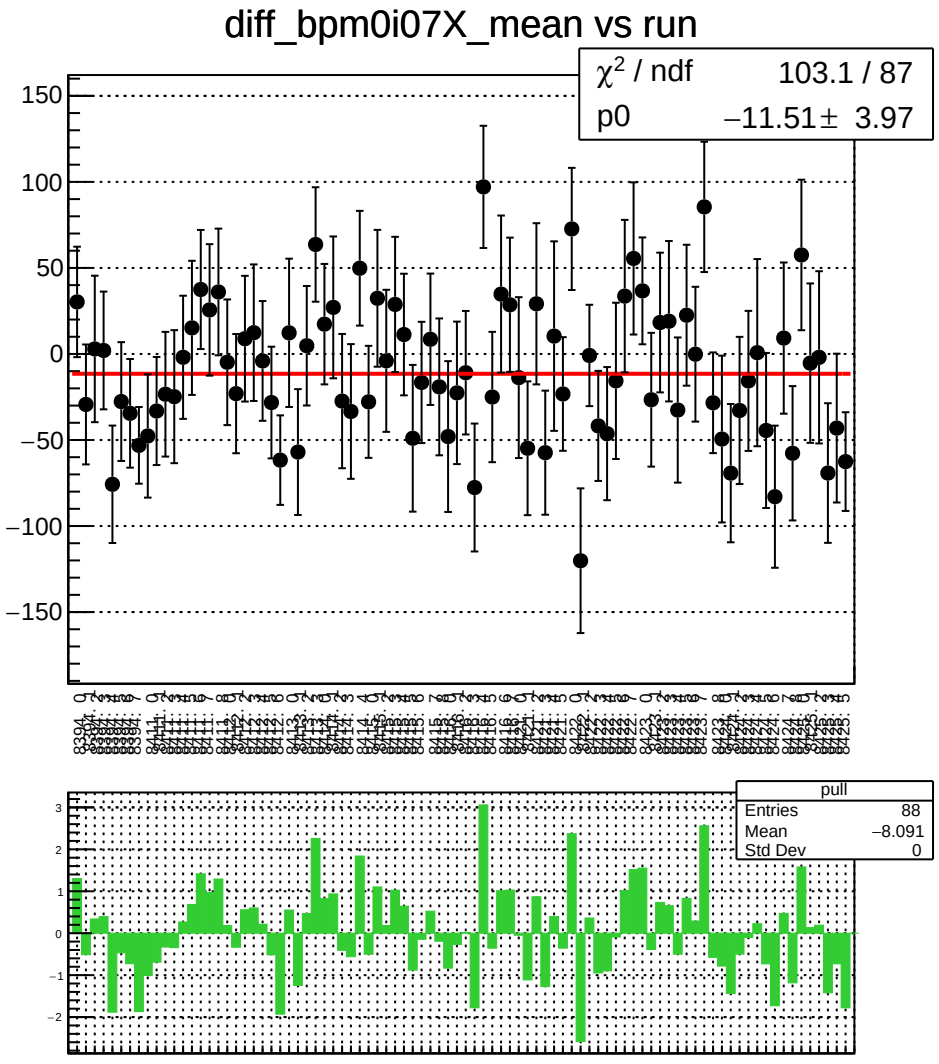

pull1D
Entries 88
Mean −0.00582
Std Dev 1.719
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

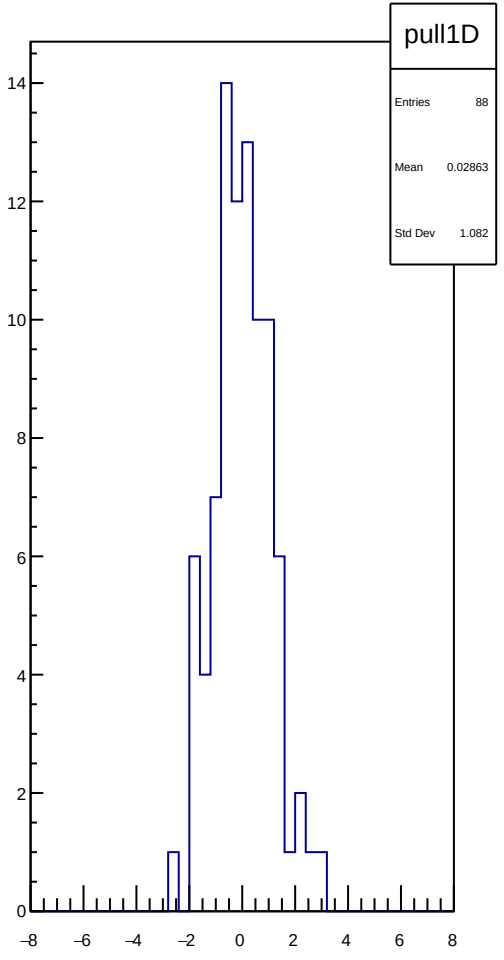

diff_bpm0i05X_rms vs run
χ² / ndf 2019 / 87
p0 1683 ± 1.294
1900
1800
1700
1600
1500

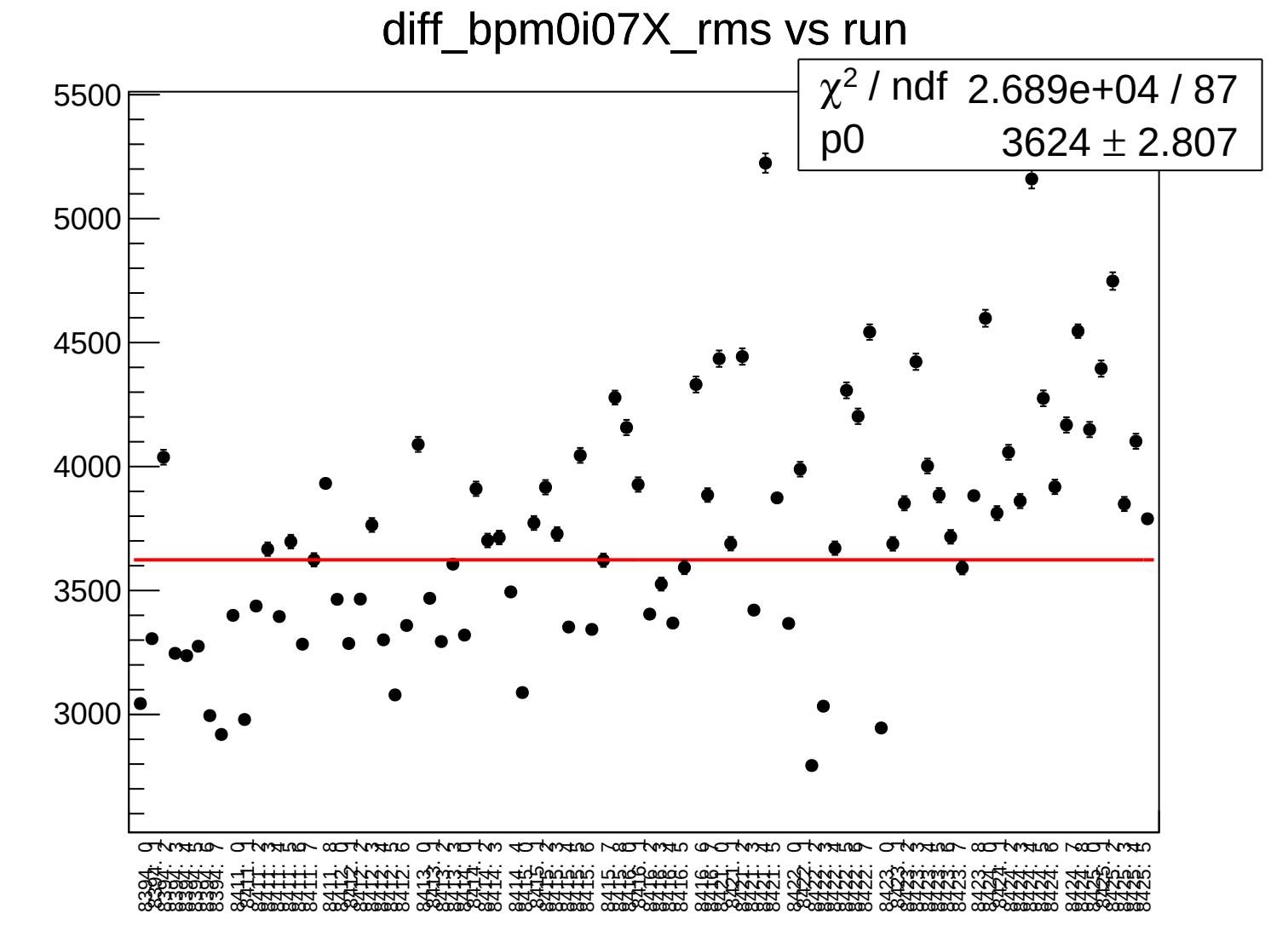

diff_bpm0i05Y_mean vs run
χ² / ndf 137.7 / 87
p0 0.4447 ± 1.486
pull
Entries 88
Mean −45.38
Std Dev 0

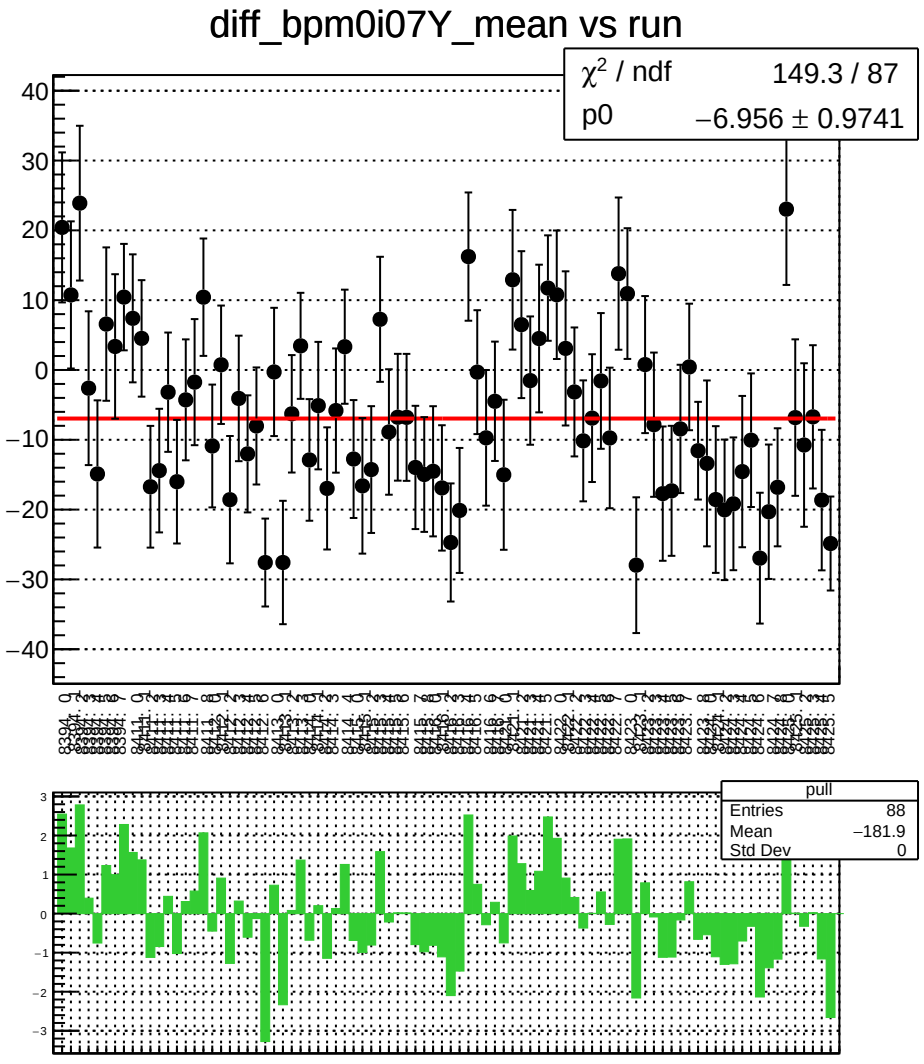

pull1D
Entries 88
Mean −0.01197
Std Dev 1.251

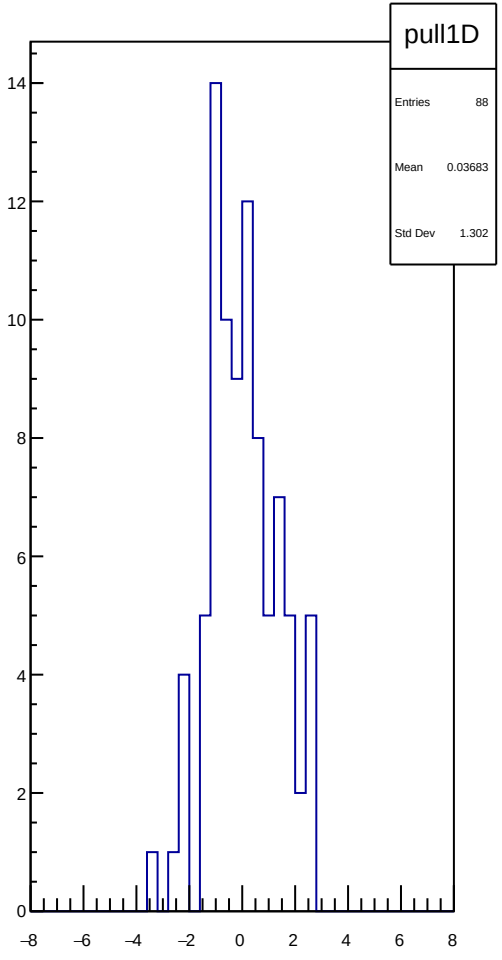

diff_bpm0i05Y_rms vs run
χ² / ndf 4423 / 87
p0 1365 ± 1.051
1700
1600
1500
1400
1300
1200

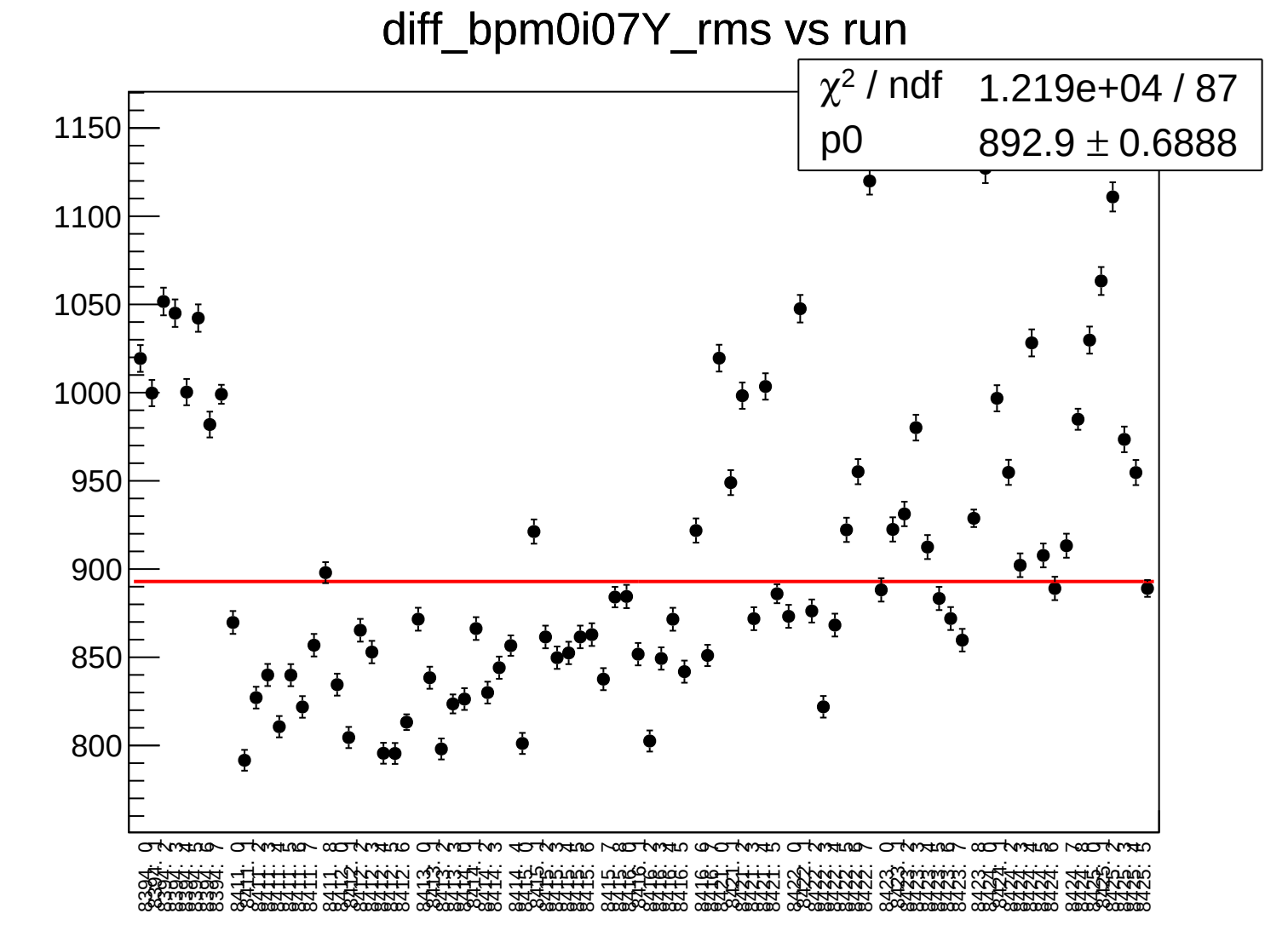

diff_bpm0i07X_mean vs run
χ² / ndf 103.1 / 87
p0 −11.51 ± 3.97
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −8.091
Std Dev 0
3
2
1
0
−1
−2

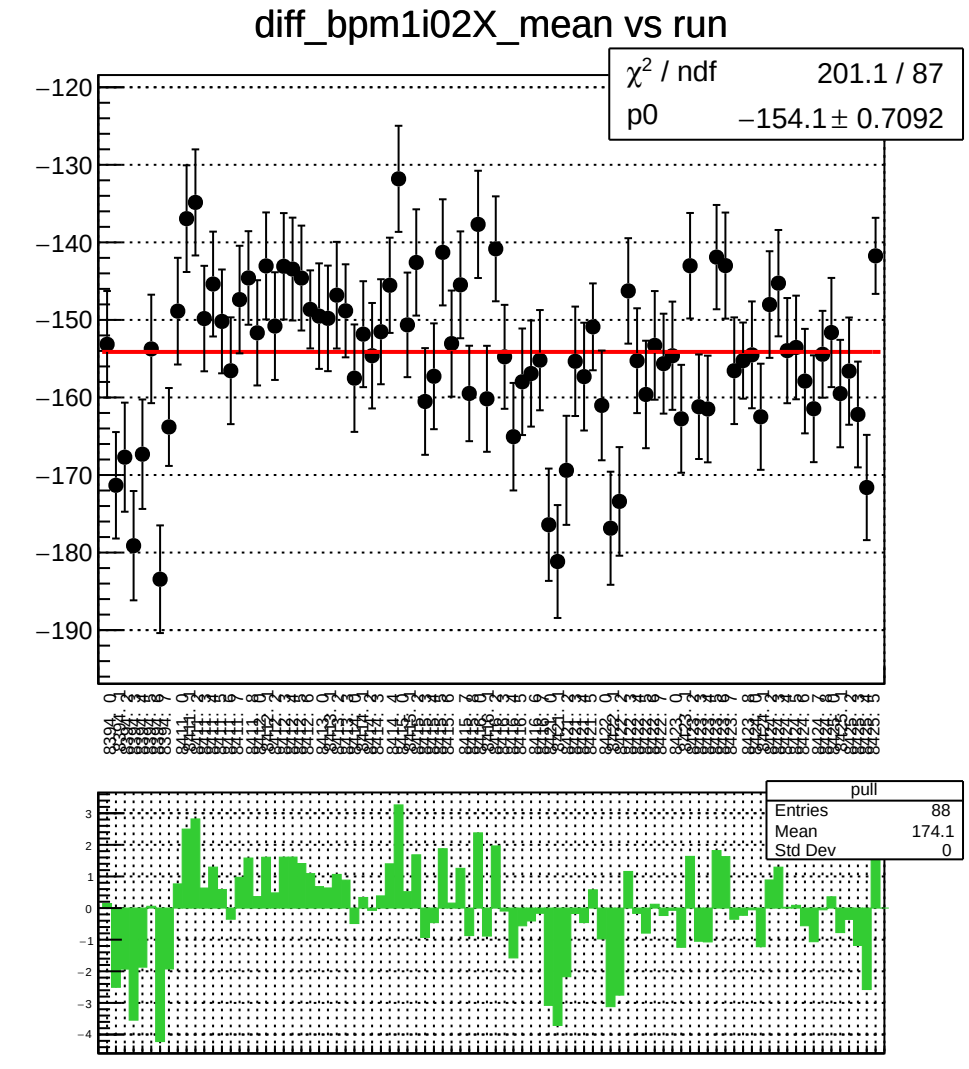

pull1D
Entries 88
Mean 0.02863
Std Dev 1.082
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

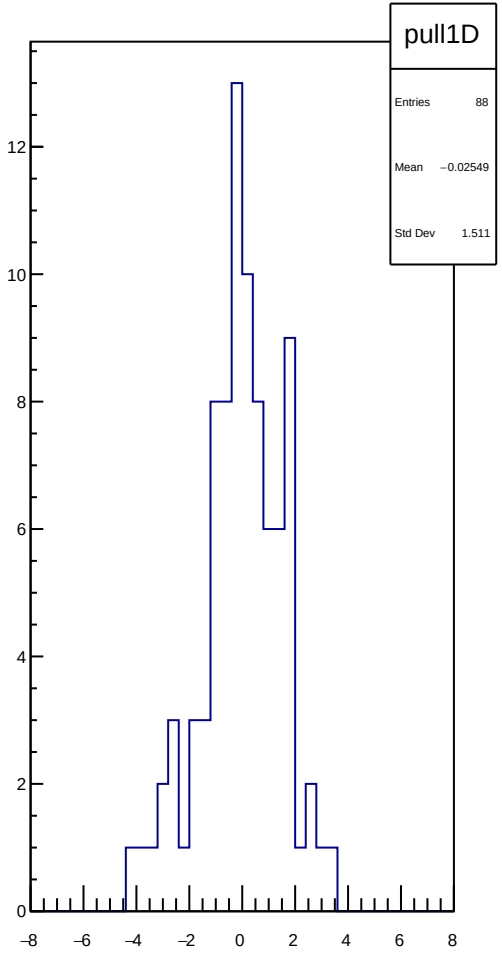

diff_bpm0i07X_rms vs run
χ^2 / ndf 2.689e+04 / 87
p0 3624 ± 2.807
5500
5000
4500
4000
3500
3000

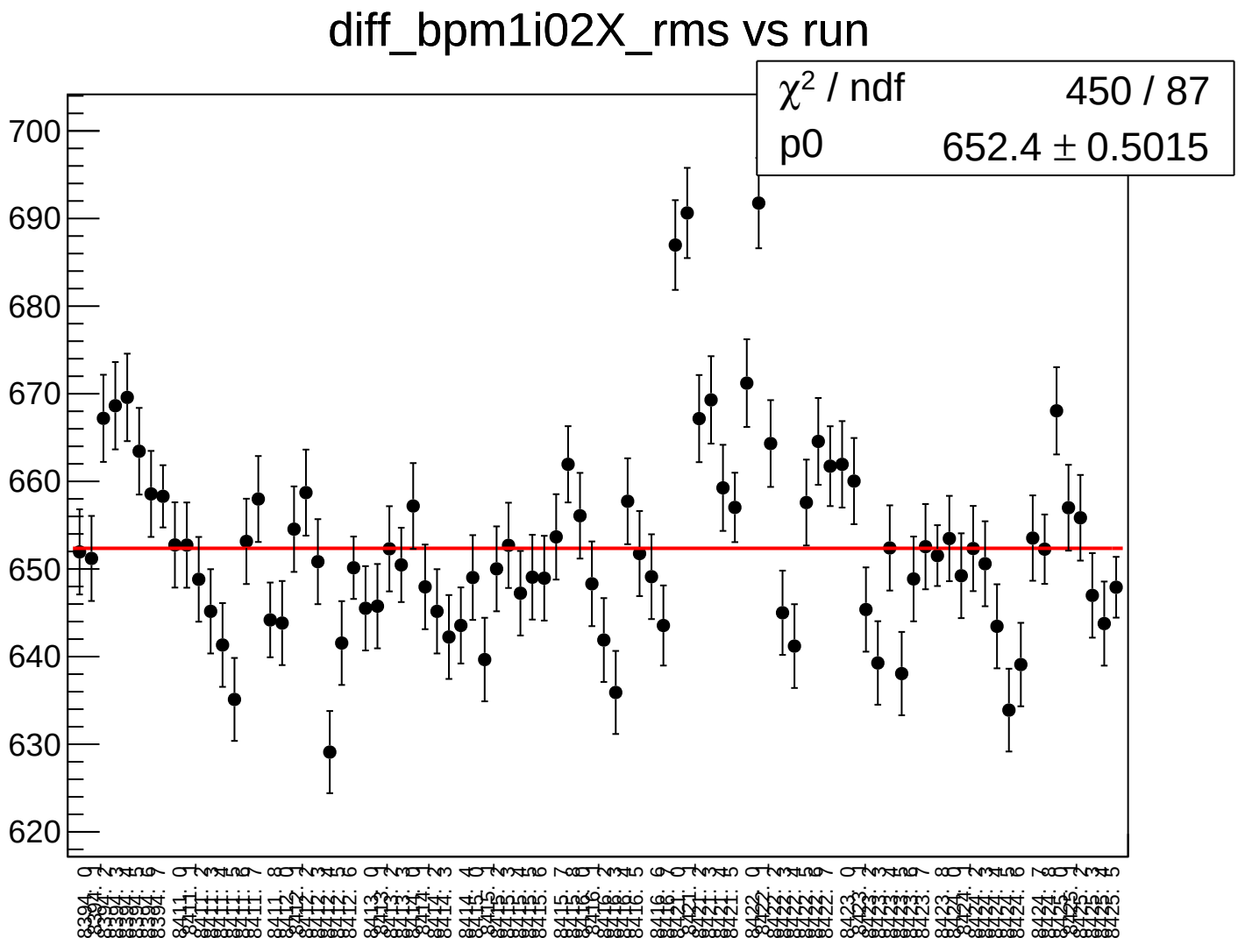

diff_bpm0i07Y_mean vs run
χ² / ndf 149.3 / 87
p0 −6.956 ± 0.9741
pull
Entries 88
Mean −181.9
Std Dev 0

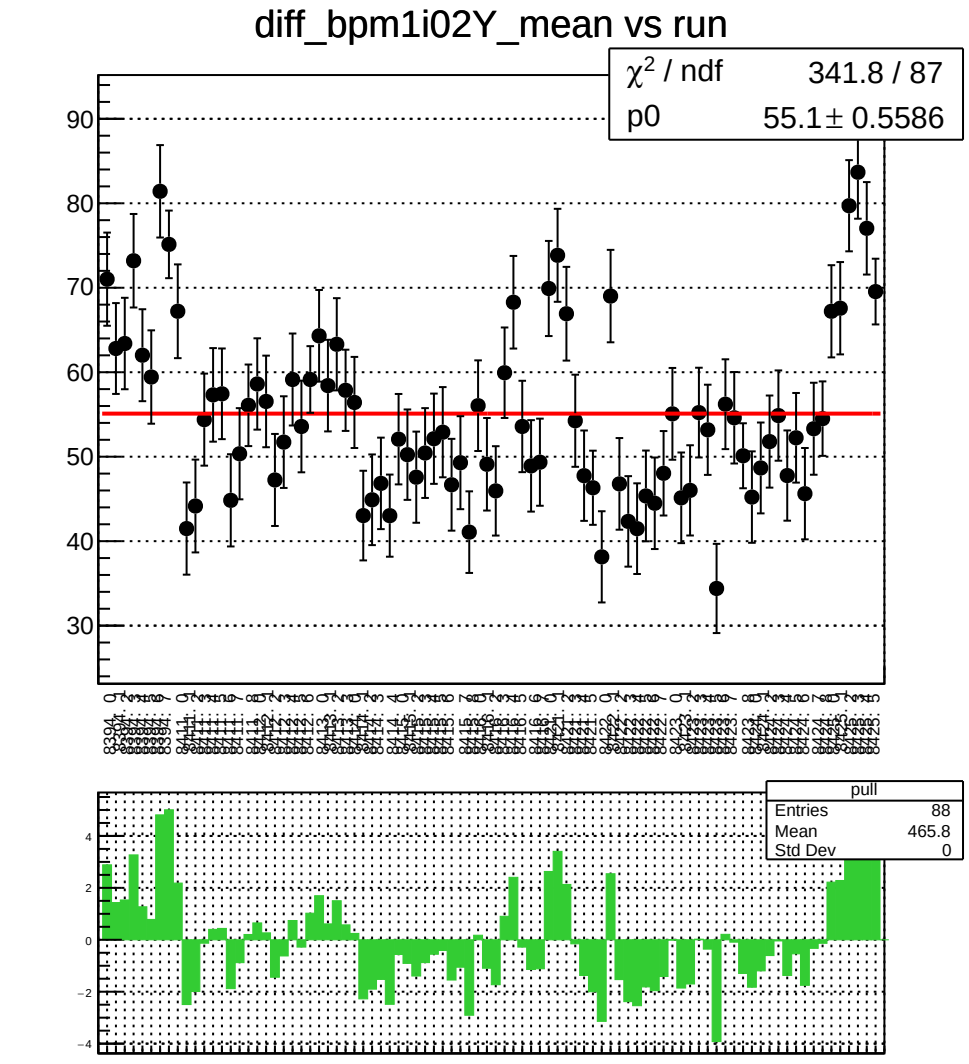

pull1D
Entries 88
Mean 0.03683
Std Dev 1.302

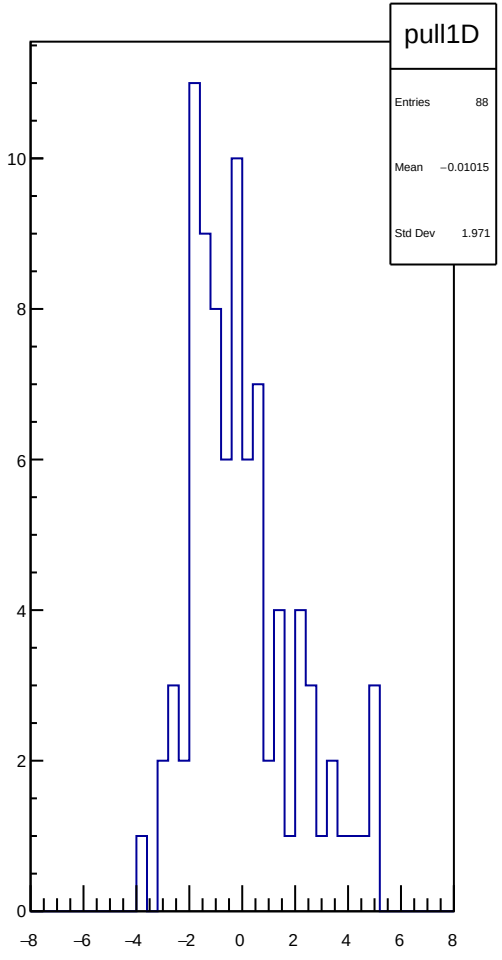

diff_bpm0i07Y_rms vs run
χ² / ndf 1.219e+04 / 87
p0 892.9 ± 0.6888
1150
1100
1050
1000
950
900
850
800

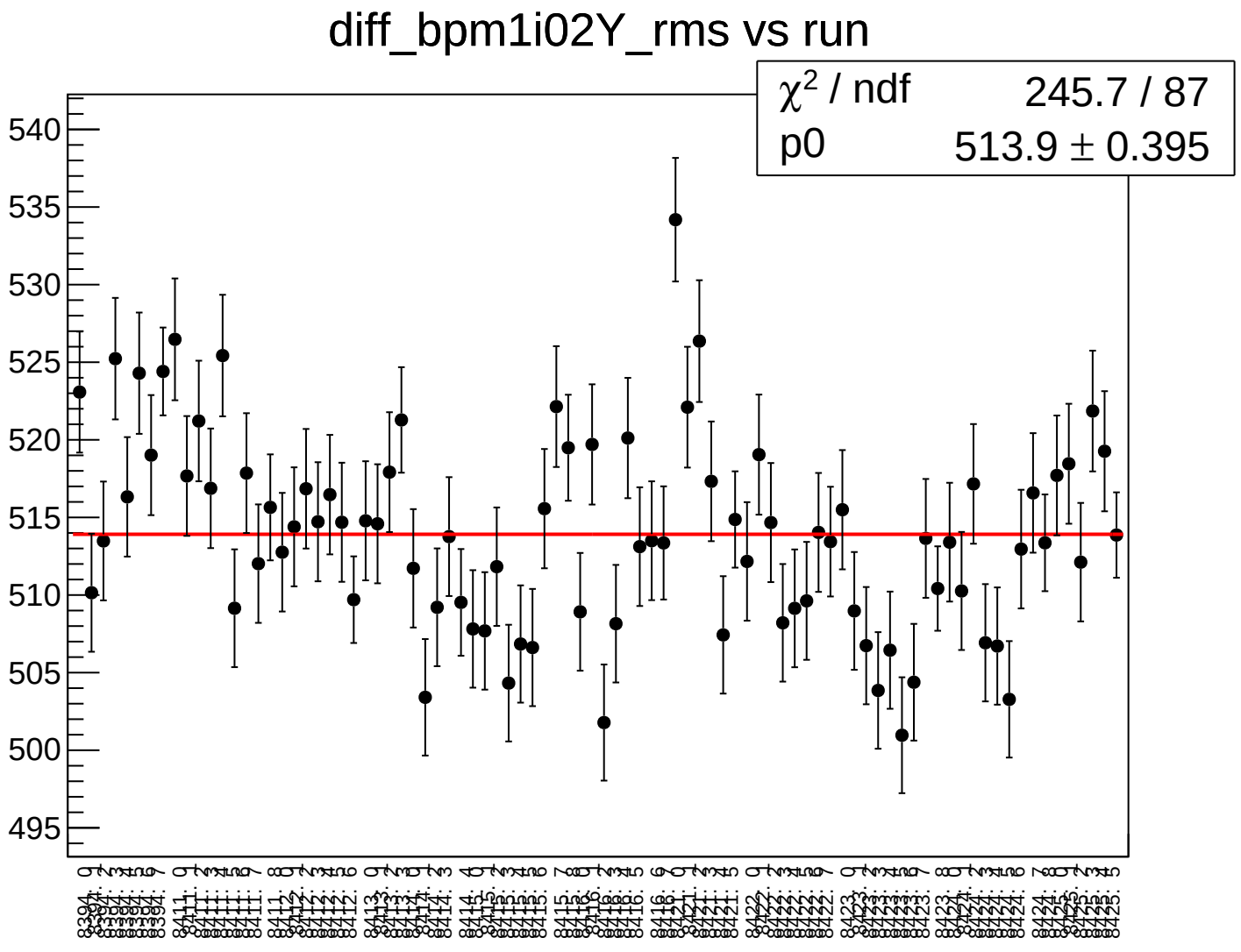

diff_bpm1i02X_mean vs run
χ² / ndf 201.1 / 87
p0 −154.1 ± 0.7092
pull
Entries 88
Mean 174.1
Std Dev 0

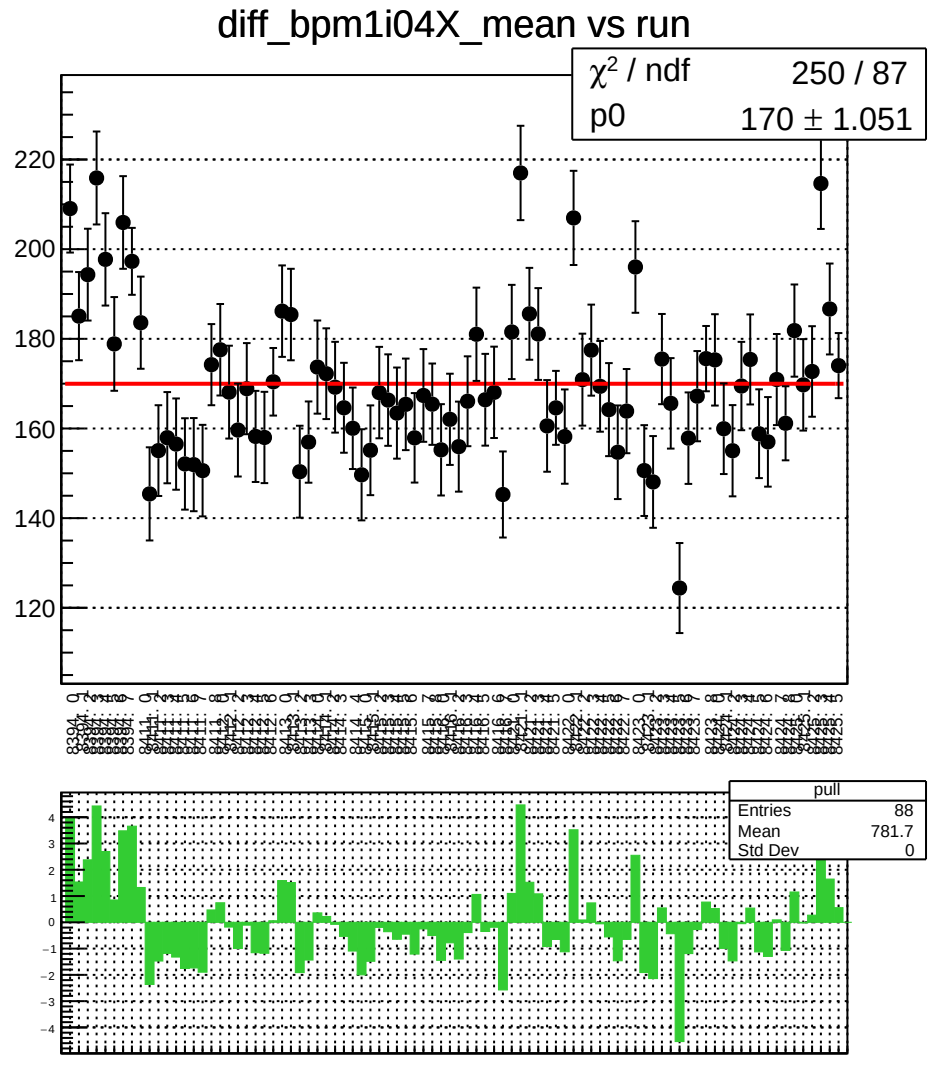

pull1D
Entries 88
Mean −0.02549
Std Dev 1.511

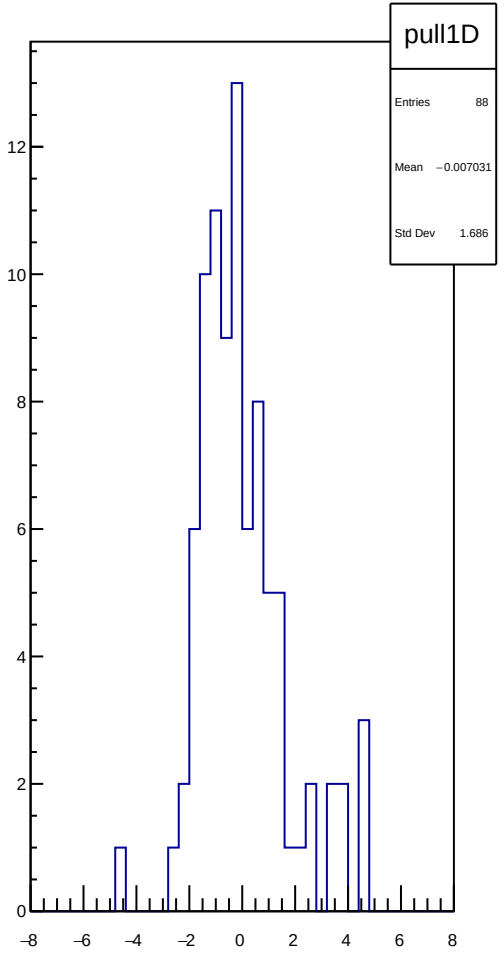

diff_bpm1i02X_rms vs run
χ² / ndf 450 / 87
p0 652.4 ± 0.5015
700
690
680
670
660
650
640
630
620

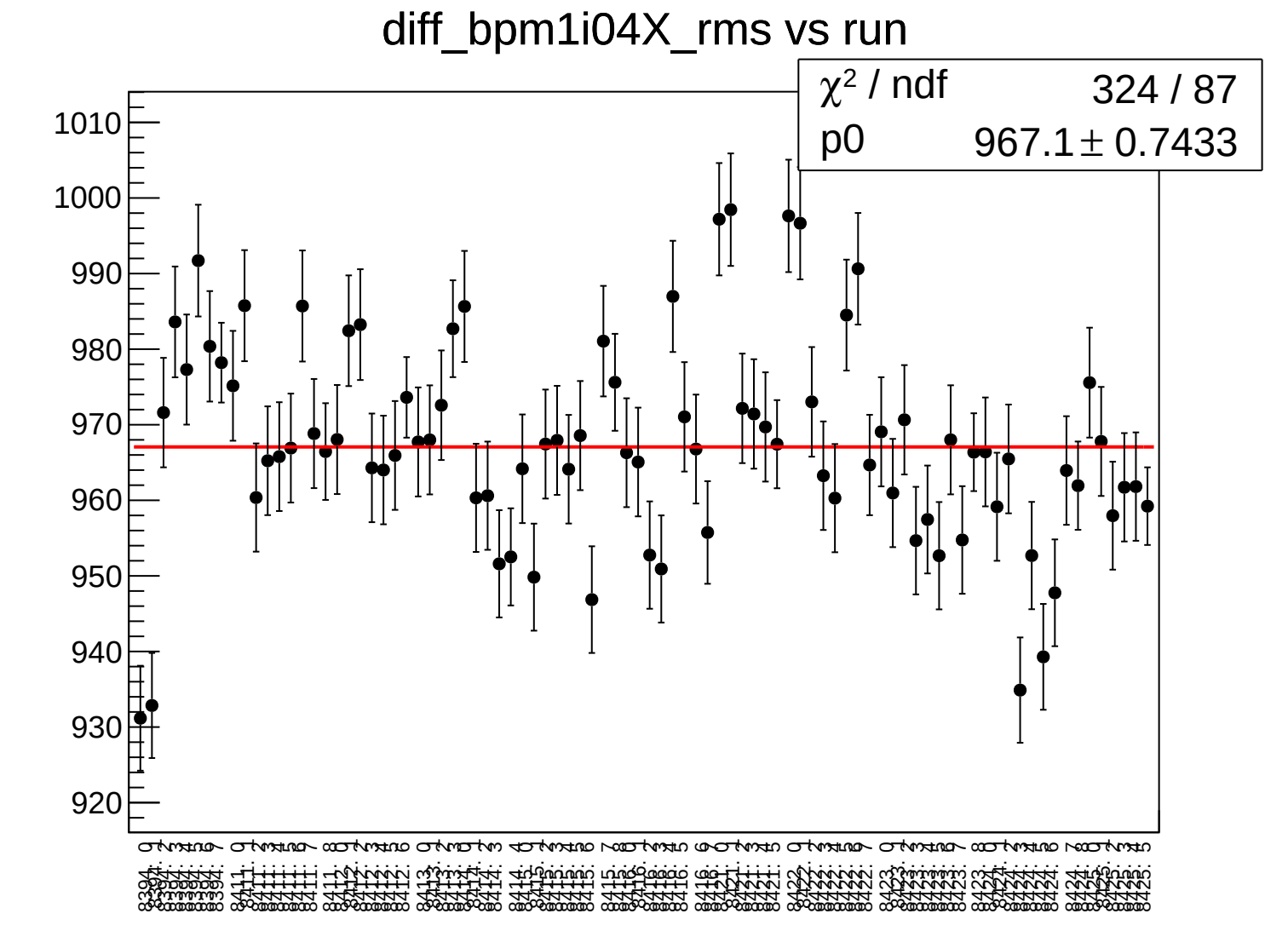

diff_bpm1i02Y_mean vs run
χ^2 / ndf 341.8 / 87
p0 55.1 ± 0.5586
pull
Entries 88
Mean 465.8
Std Dev 0

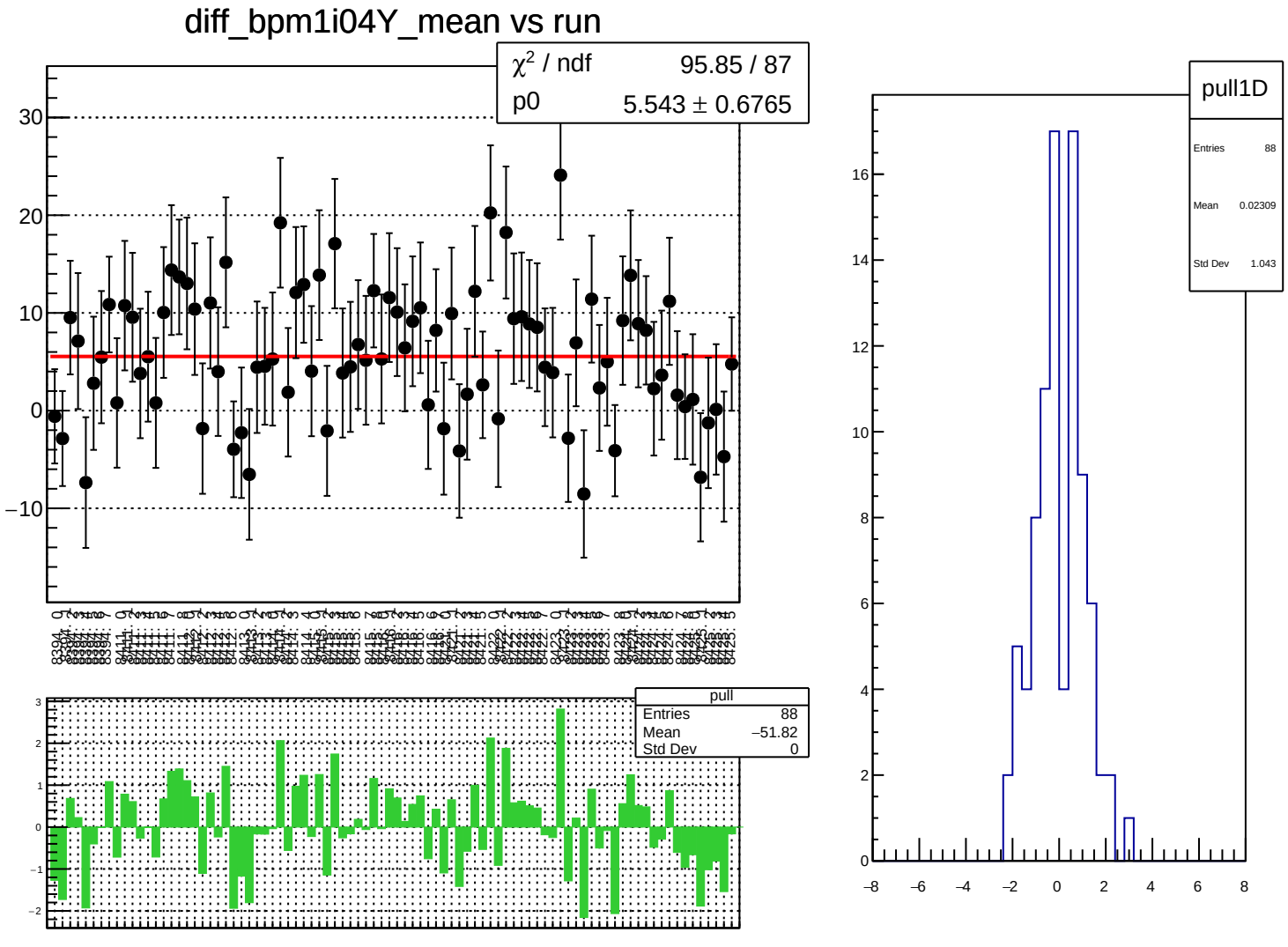

pull1D
Entries 88
Mean −0.01015
Std Dev 1.971

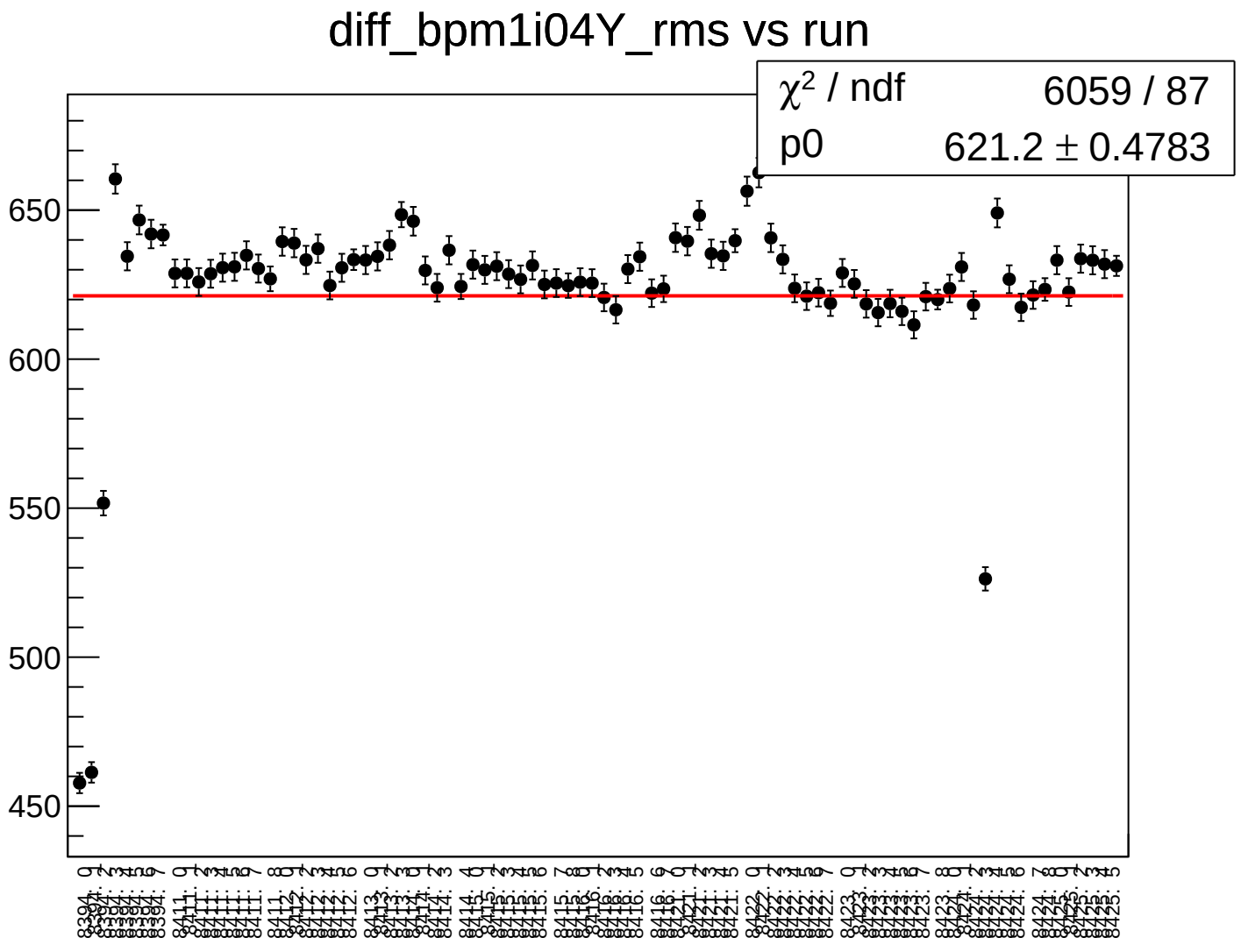

diff_bpm1i02Y_rms vs run
χ² / ndf 245.7 / 87
p0 513.9 ± 0.395
540
535
530
525
520
515
510
505
500
495

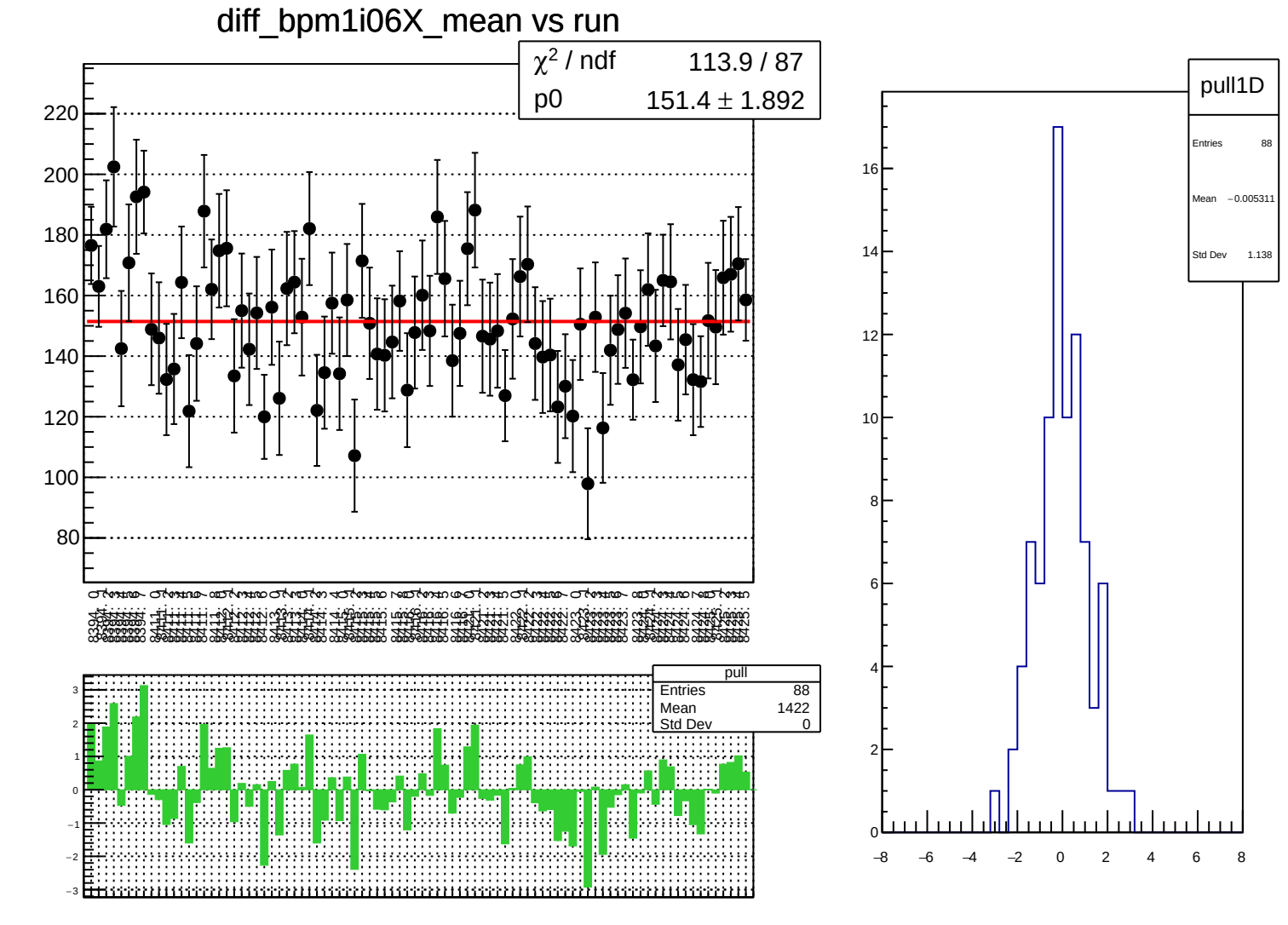

diff_bpm1i04X_mean vs run
χ^2 / ndf 250 / 87
p0 170 ± 1.051
220
200
180
160
140
120
pull
Entries 88
Mean 781.7
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

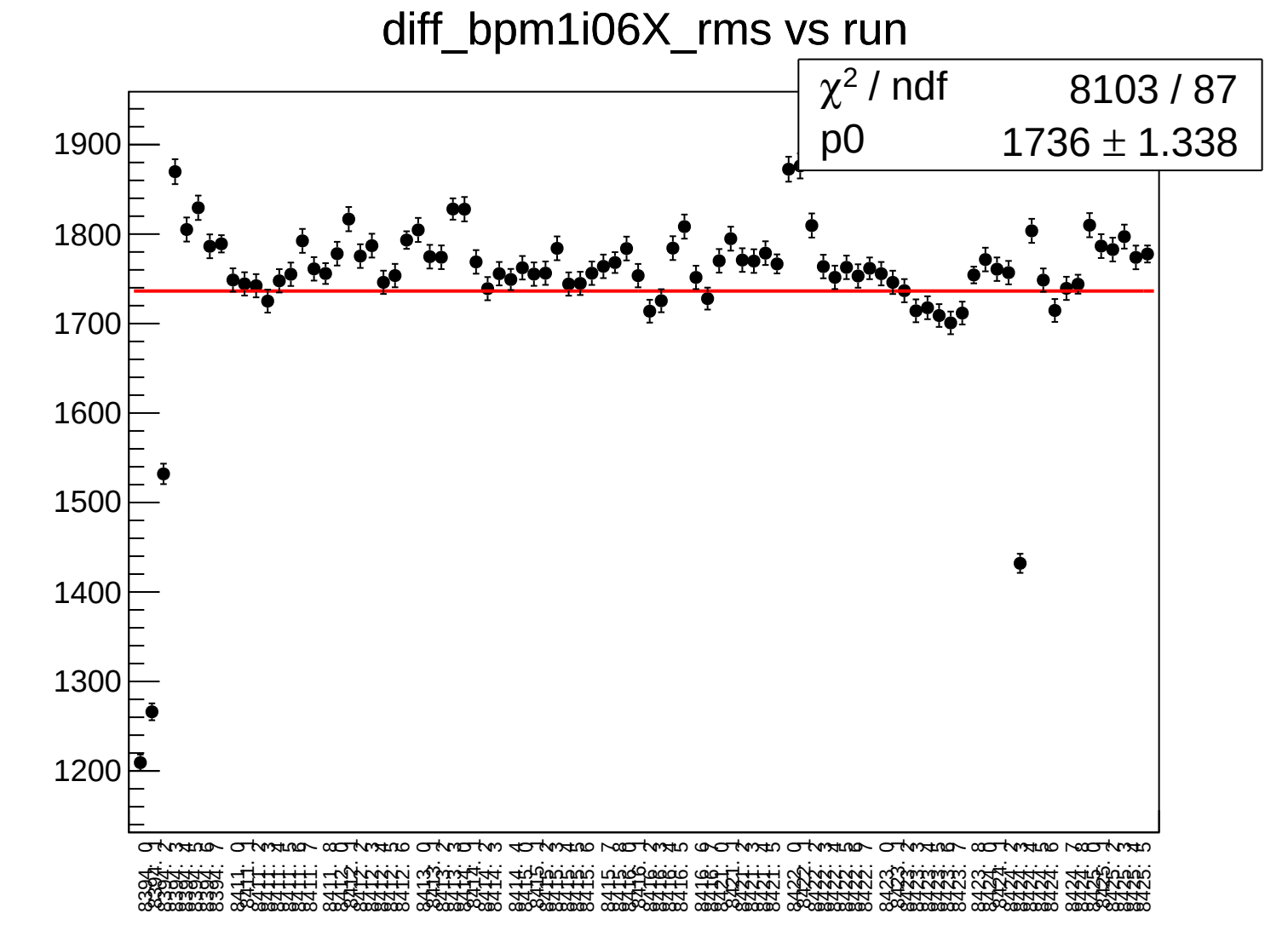

pull1D
Entries 88
Mean −0.007031
Std Dev 1.686
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

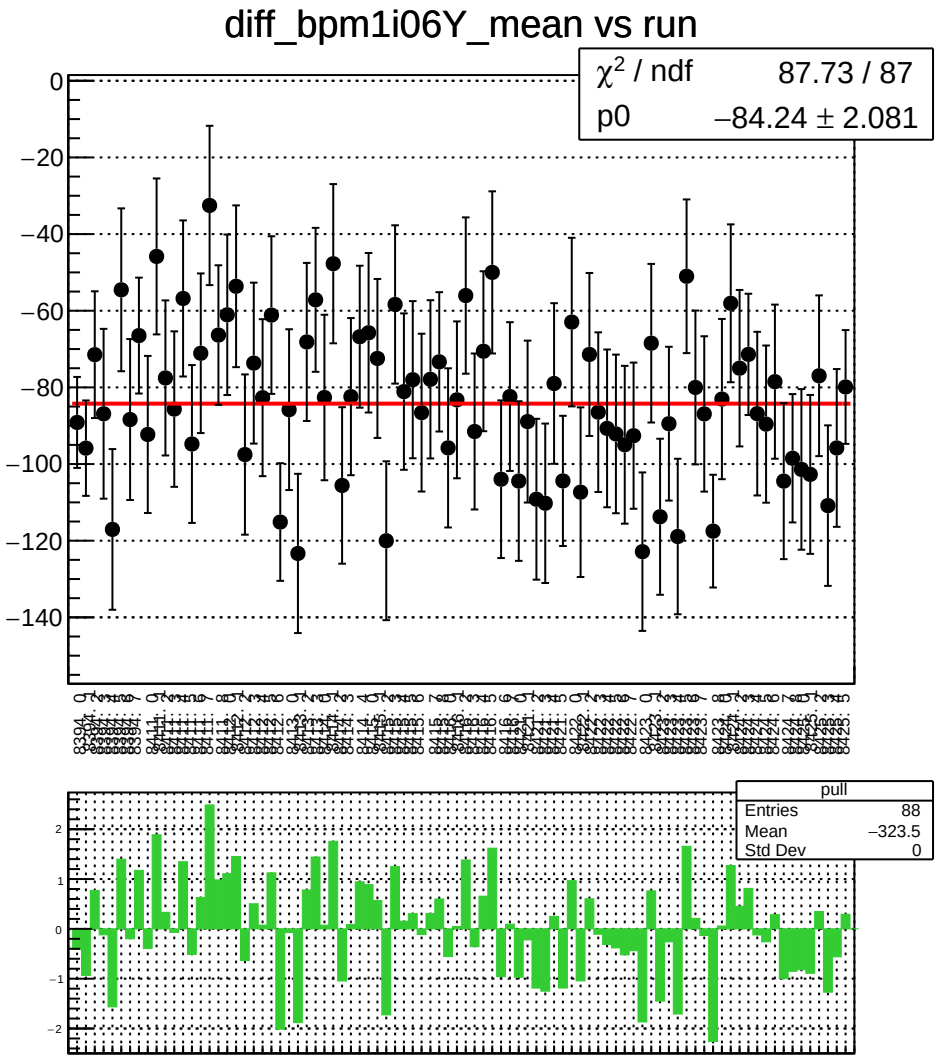

diff_bpm1i04X_rms vs run
χ² / ndf 324 / 87
p0 967.1 ± 0.7433
1010
1000
990
980
970
960
950
940
930
920

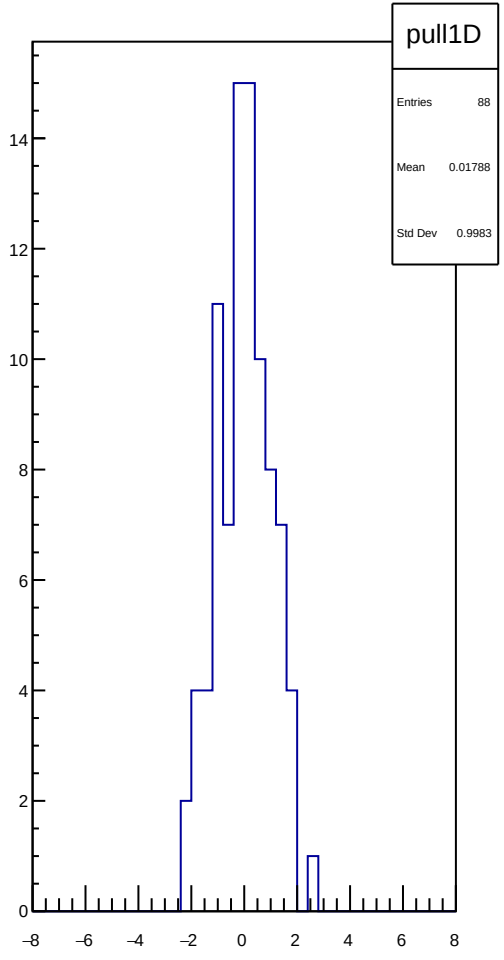

diff_bpm1i04Y_mean vs run
χ² / ndf 95.85 / 87
p0 5.543 ± 0.6765
30
20
10
0
−10
pull
Entries 88
Mean −51.82
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.02309
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

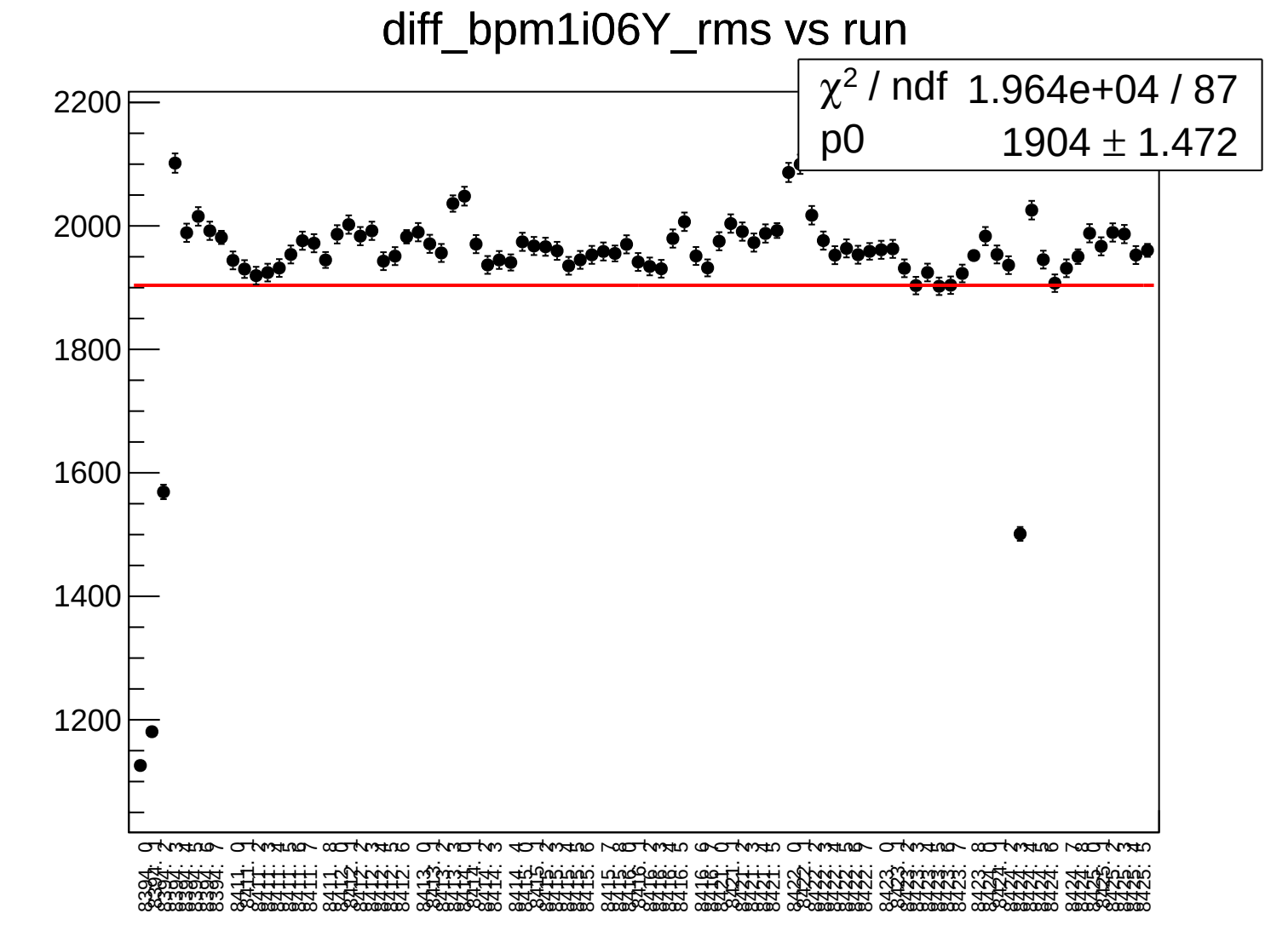

diff_bpm1i04Y_rms vs run
χ² / ndf 6059 / 87
p0 621.2 ± 0.4783
650
600
550
500
450

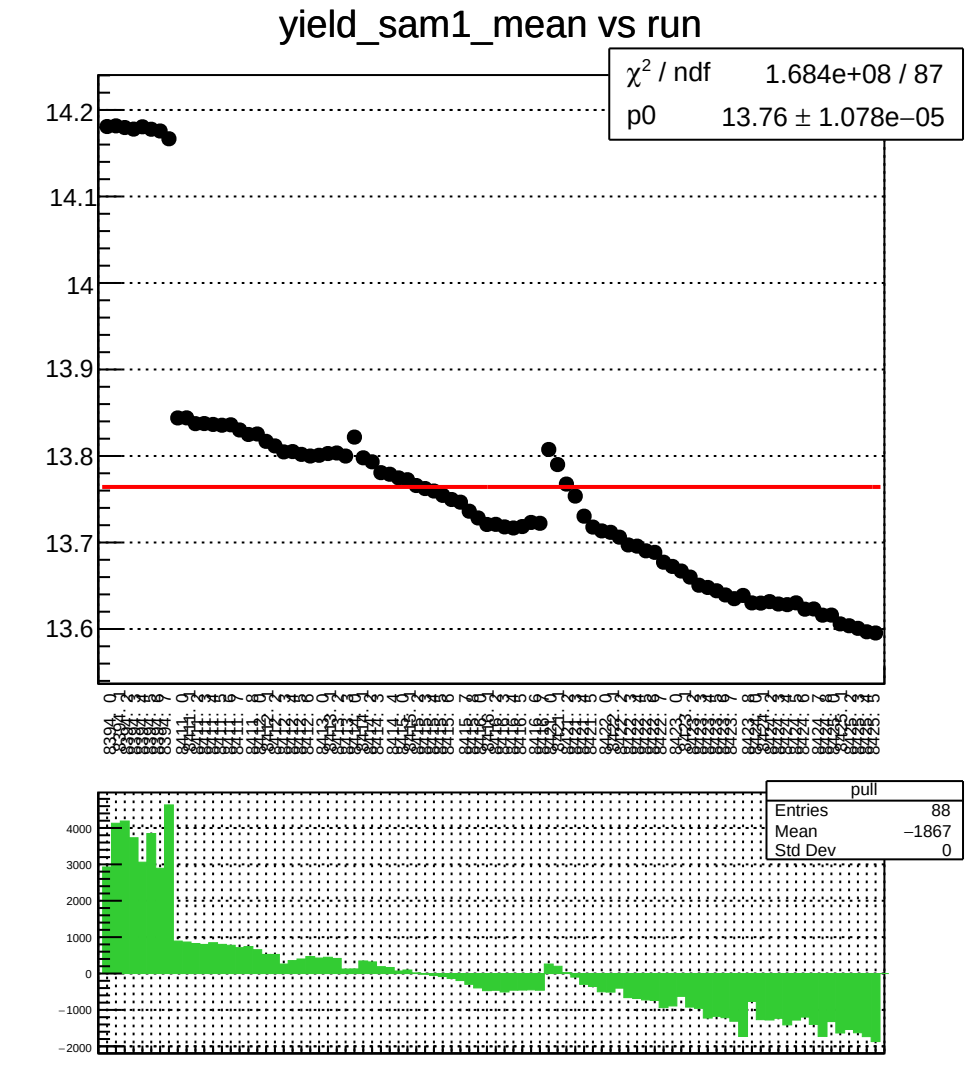

diff_bpm1i06X_mean vs run
χ^2 / ndf 113.9 / 87
p0 151.4 ± 1.892
220
200
180
160
140
120
100
80
pull
Entries 88
Mean 1422
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.005311
Std Dev 1.138
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

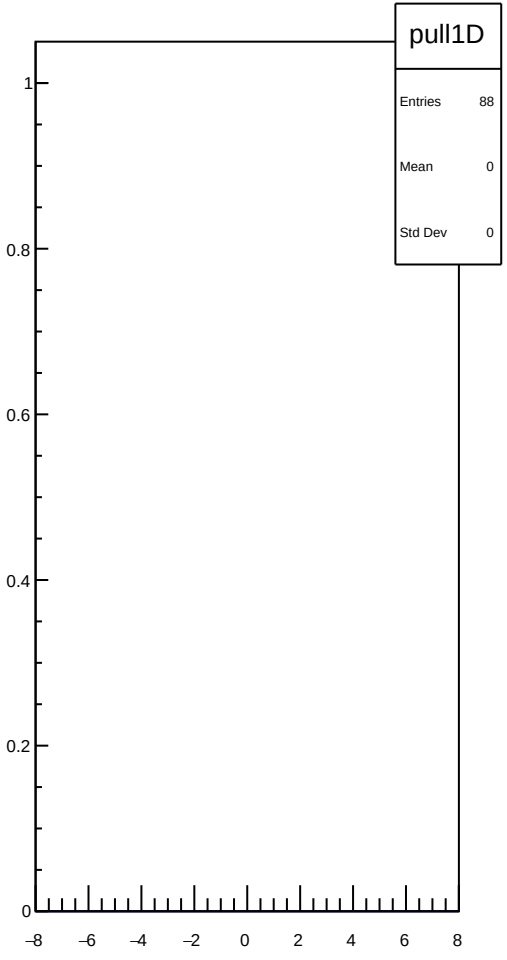

diff_bpm1i06X_rms vs run
χ^2 / ndf 8103 / 87
p0 1736 ± 1.338
1900
1800
1700
1600
1500
1400
1300
1200

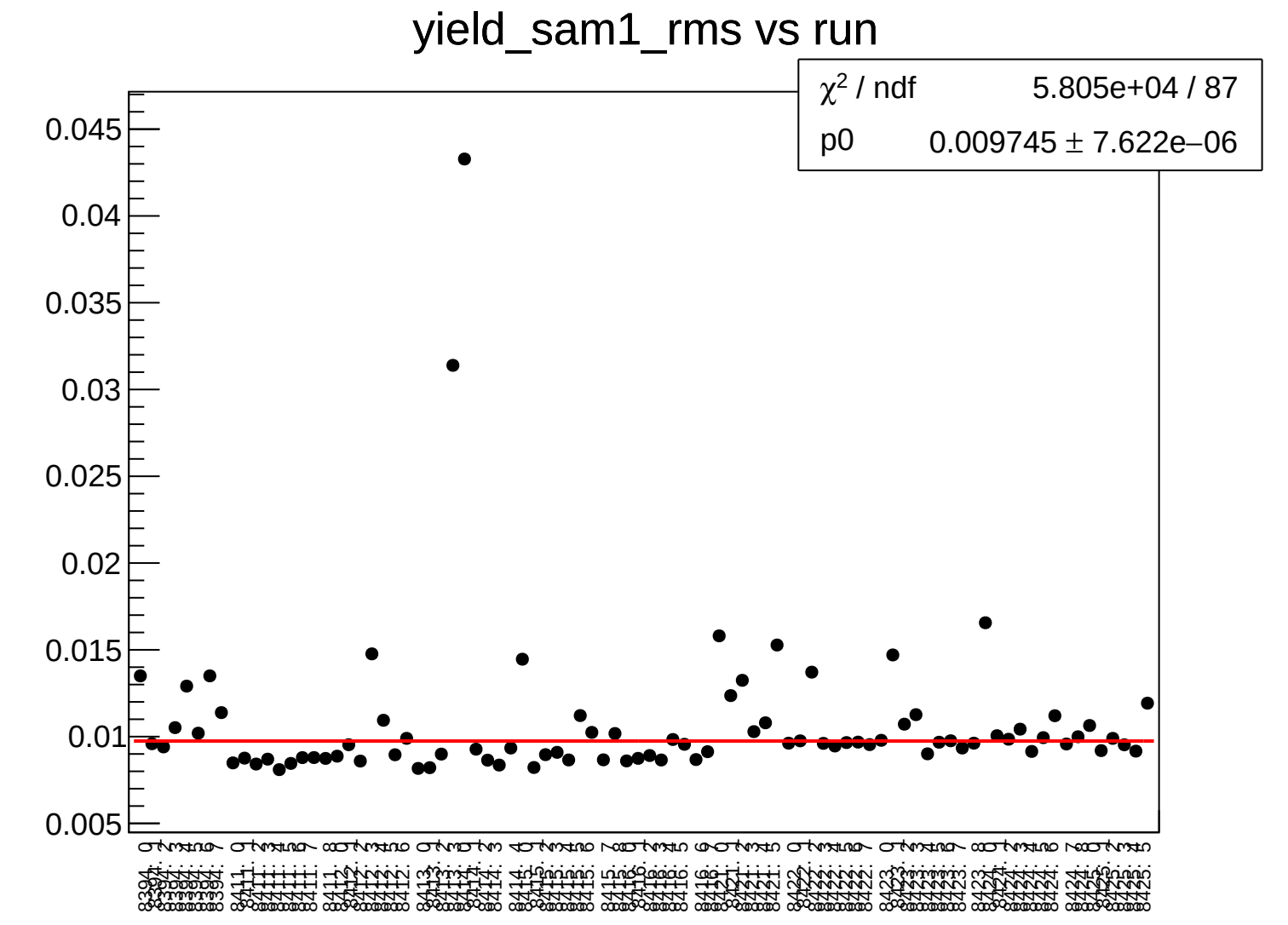

diff_bpm1i06Y_mean vs run
χ² / ndf 87.73 / 87
p0 −84.24 ± 2.081
pull
Entries 88
Mean −323.5
Std Dev 0

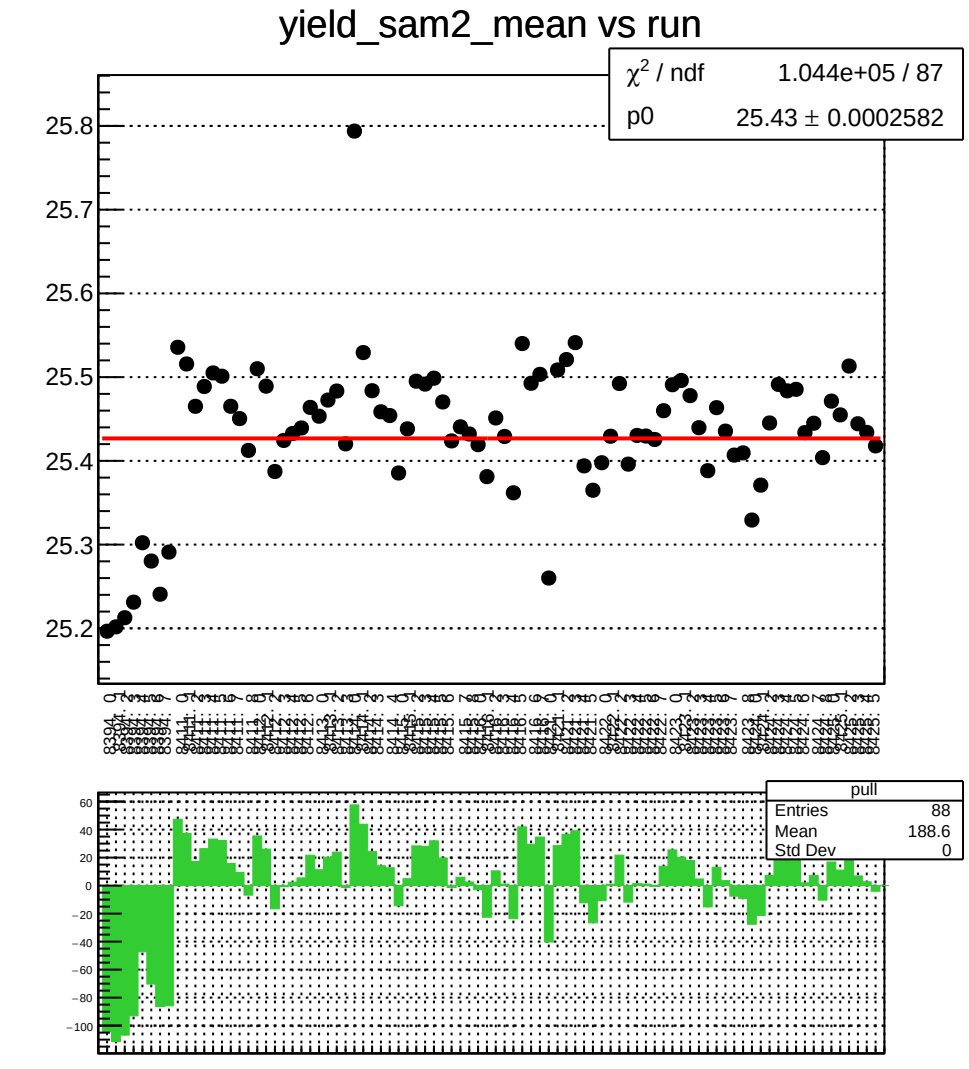

pull1D
Entries 88
Mean 0.01788
Std Dev 0.9983

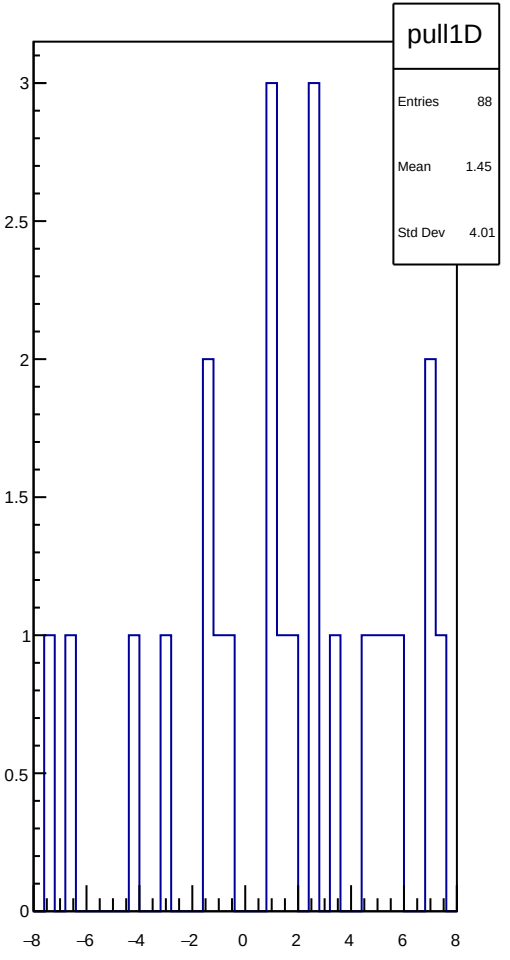

diff_bpm1i06Y_rms vs run
χ^2 / ndf 1.964e+04 / 87
p0 1904 ± 1.472
2200
2000
1800
1600
1400
1200

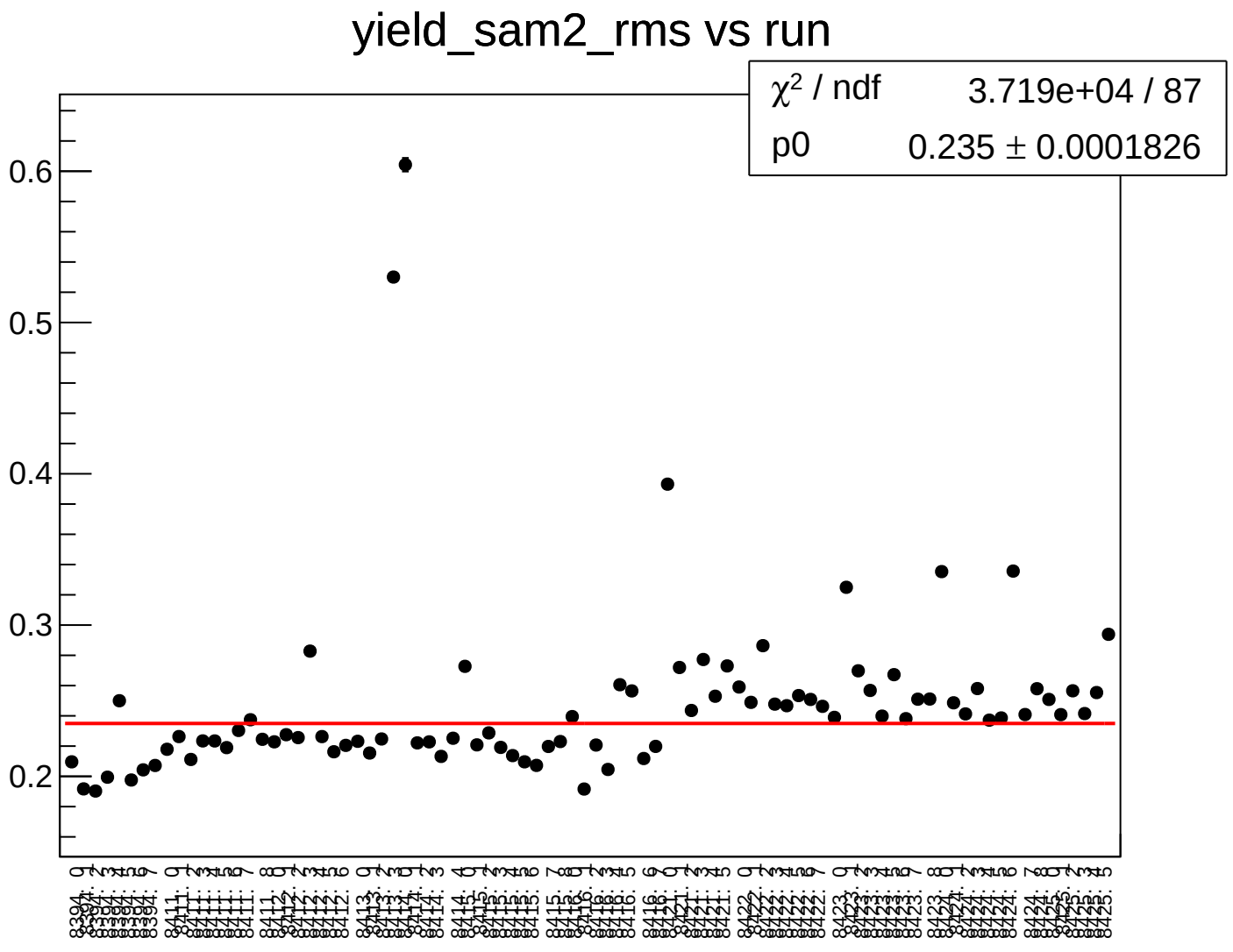

yield_sam1_mean vs run
χ² / ndf 1.684e+08 / 87
p0 13.76 ± 1.078e−05
14.2
14.1
14
13.9
13.8
13.7
13.6
pull
Entries 88
Mean −1867
Std Dev 0
4000
3000
2000
1000
0
−1000
−2000

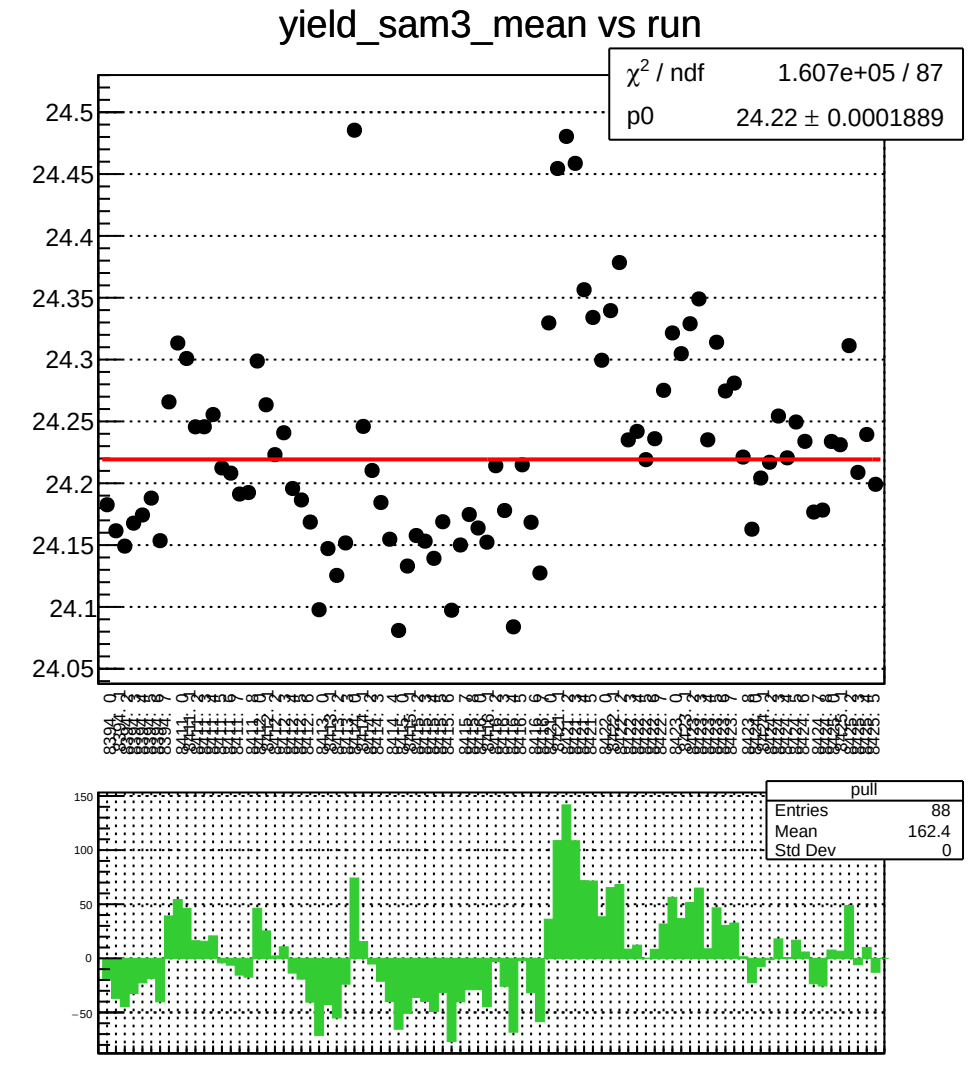

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

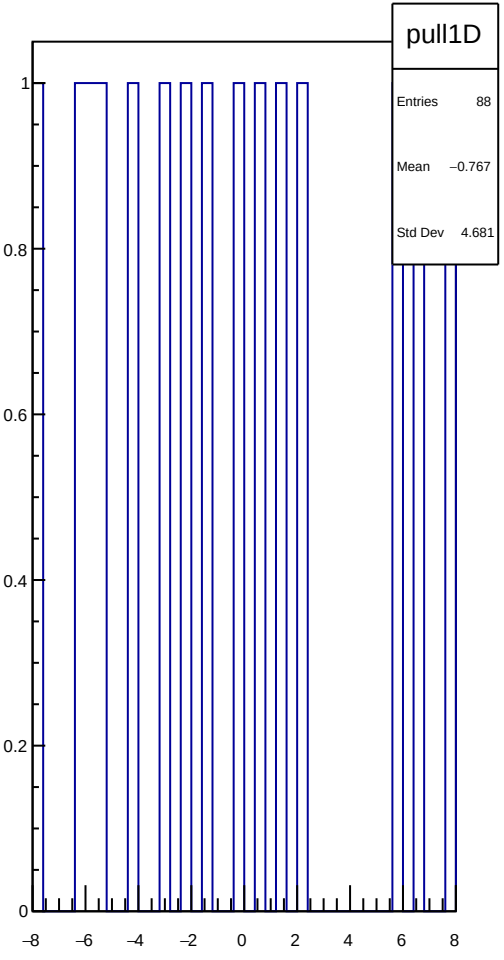

yield_sam1_rms vs run
χ^2 / ndf 5.805e+04 / 87
p0 0.009745 ± 7.622e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

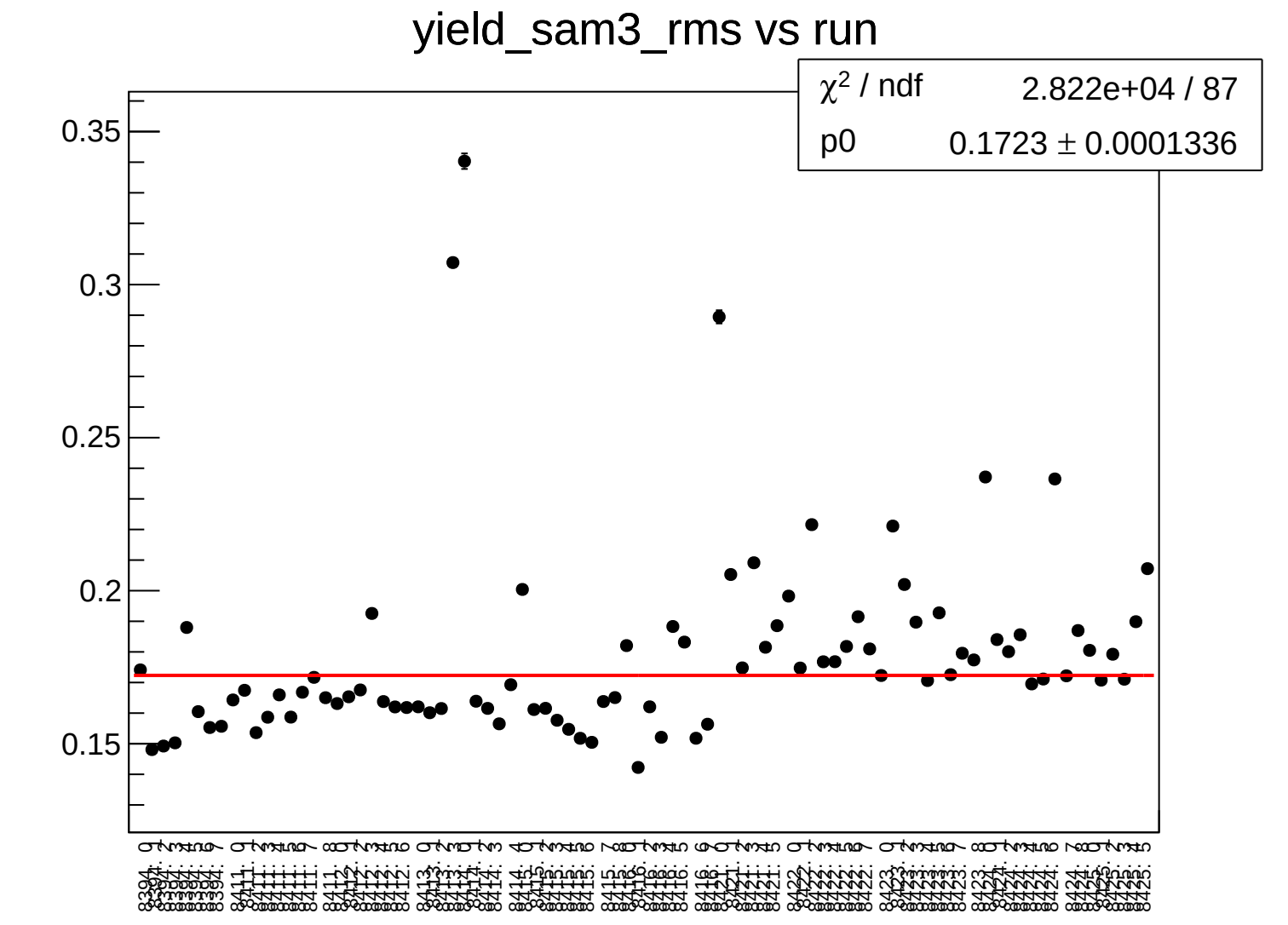

yield_sam2_mean vs run
χ² / ndf 1.044e+05 / 87
p0 25.43 ± 0.0002582
25.8
25.7
25.6
25.5
25.4
25.3
25.2
pull
Entries 88
Mean 188.6
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100

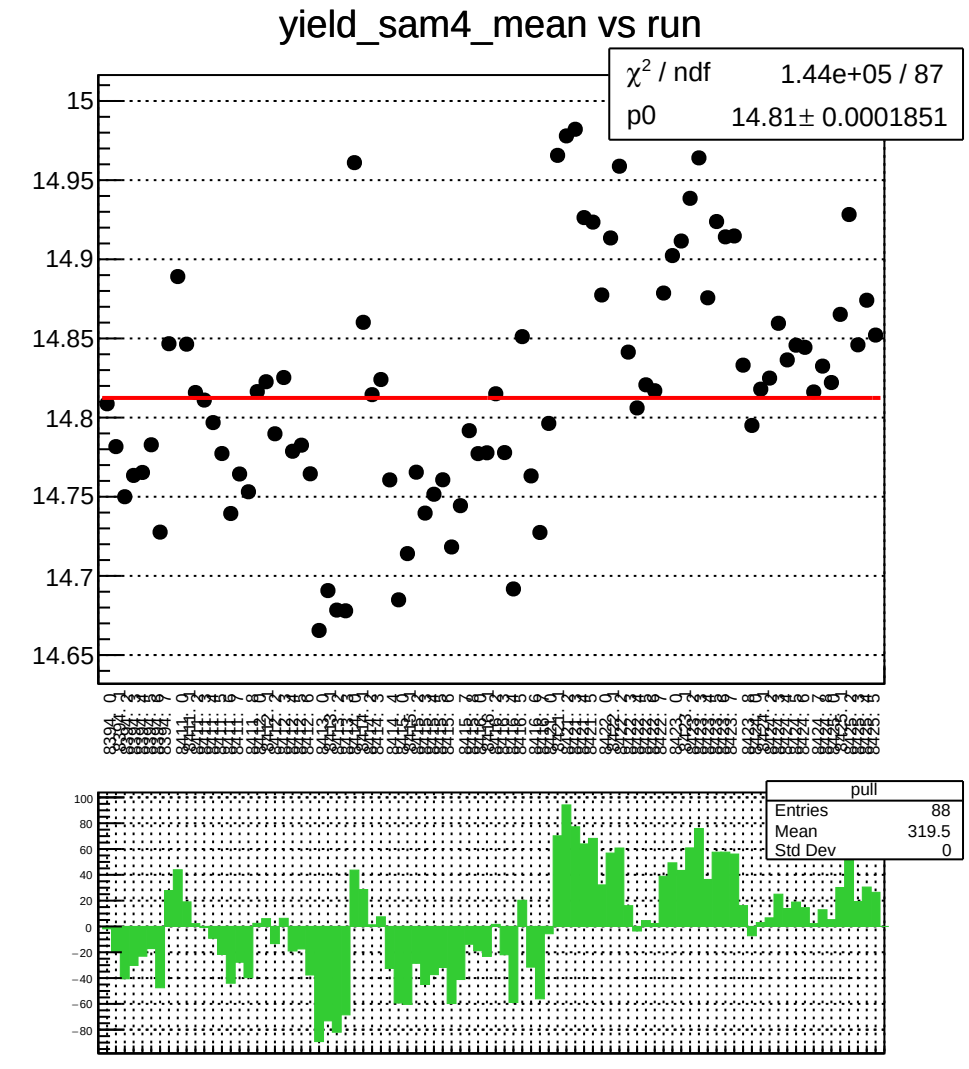

pull1D
Entries 88
Mean 1.45
Std Dev 4.01
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

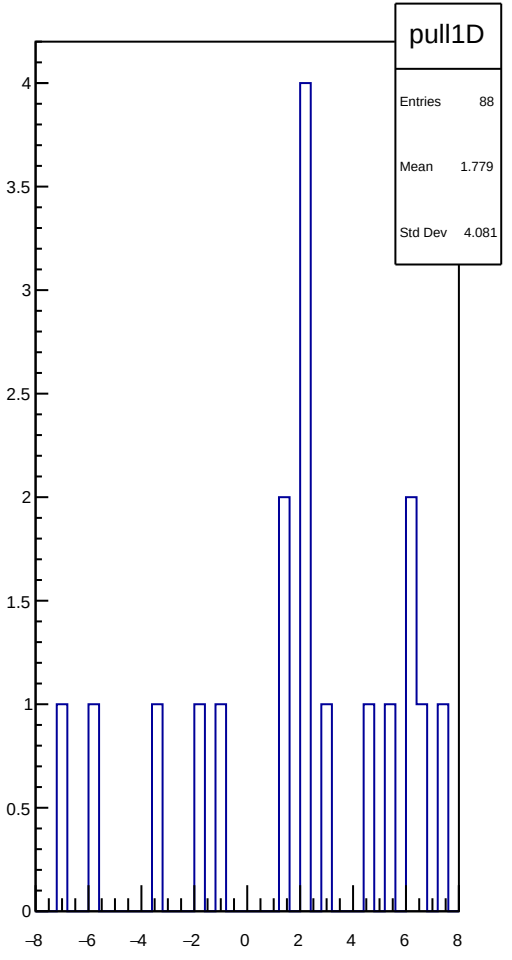

yield_sam2_rms vs run
χ² / ndf 3.719e+04 / 87
p0 0.235 ± 0.0001826
0.6
0.5
0.4
0.3
0.2

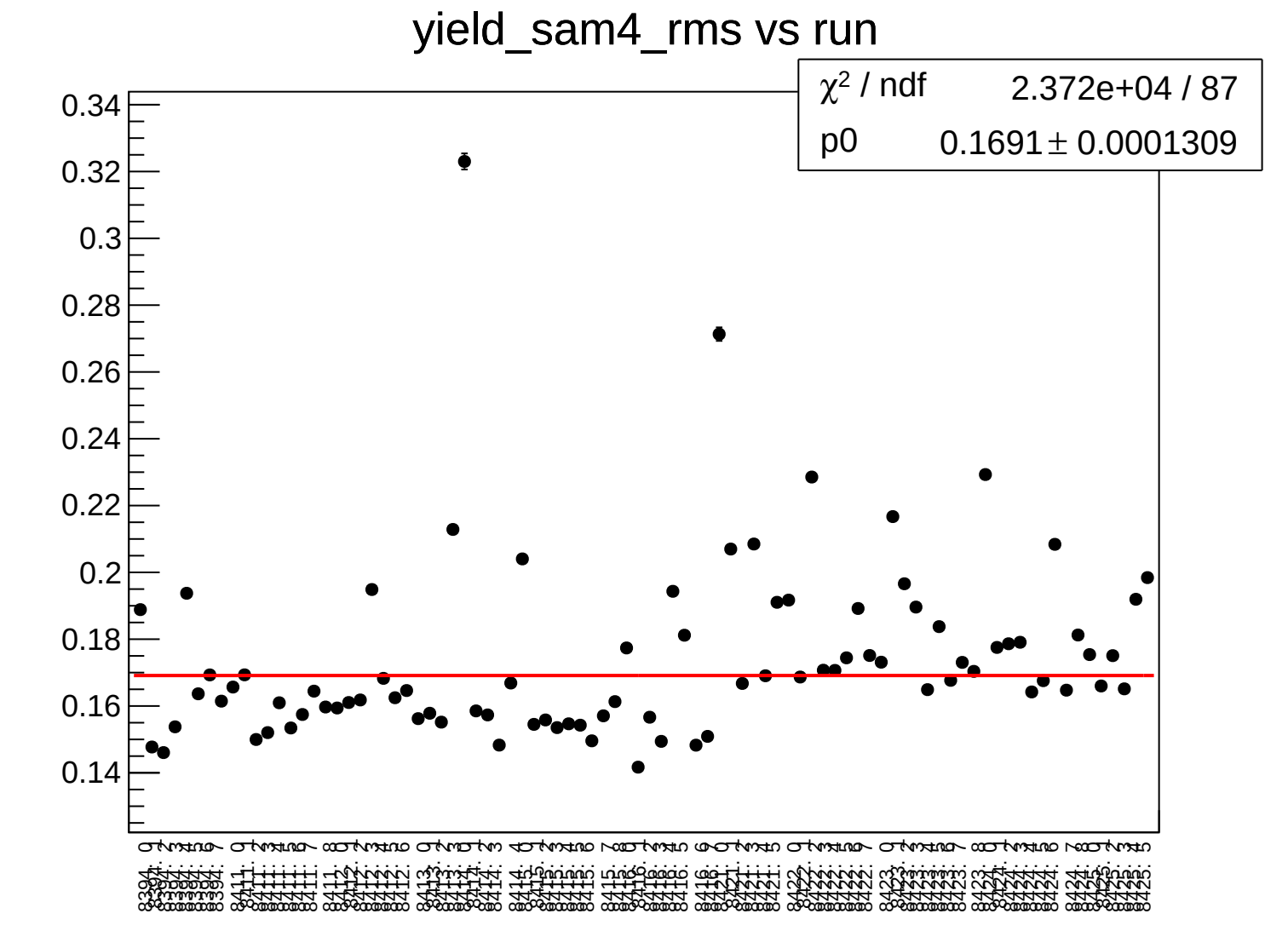

yield_sam3_mean vs run
χ² / ndf 1.607e+05 / 87
p0 24.22 ± 0.0001889
24.5
24.45
24.4
24.35
24.3
24.25
24.2
24.15
24.1
24.05
pull
Entries 88
Mean 162.4
Std Dev 0
150
100
50
0
−50

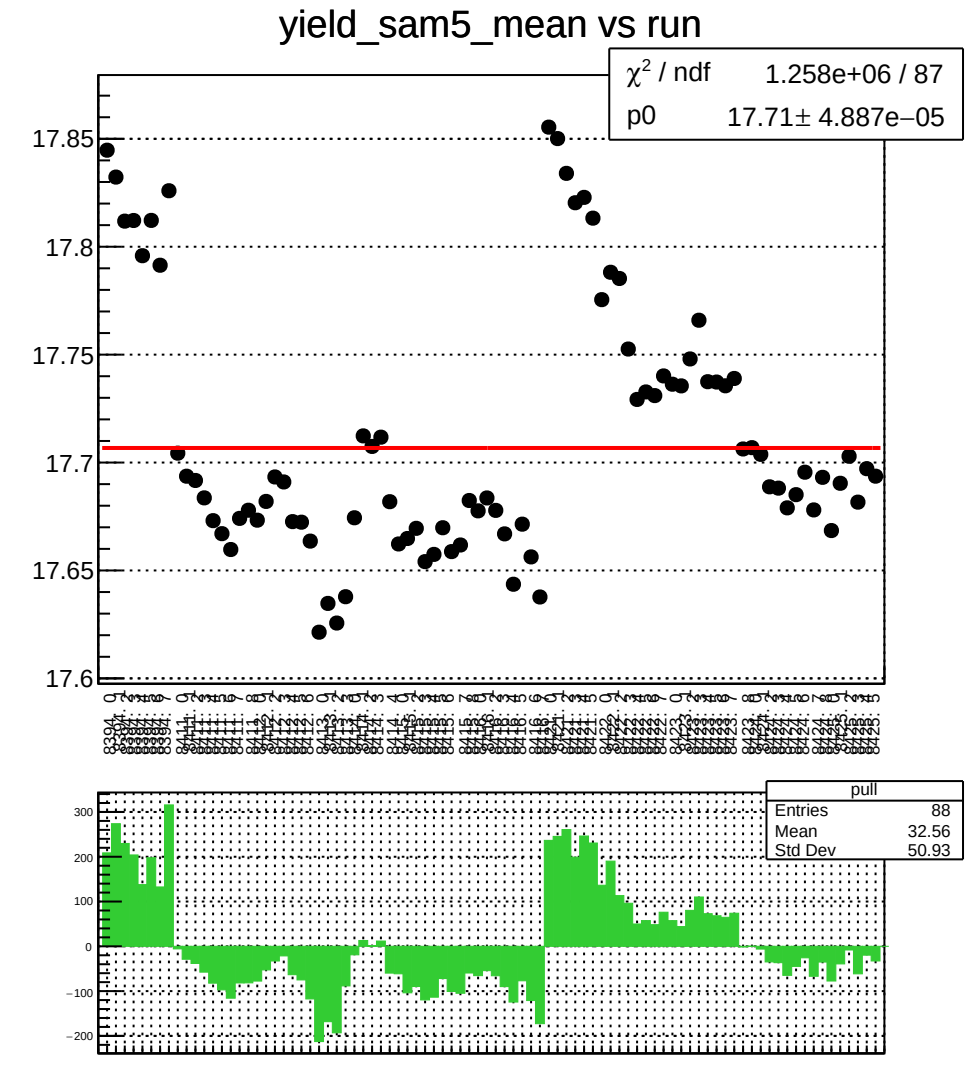

pull1D
Entries 88
Mean −0.767
Std Dev 4.681
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

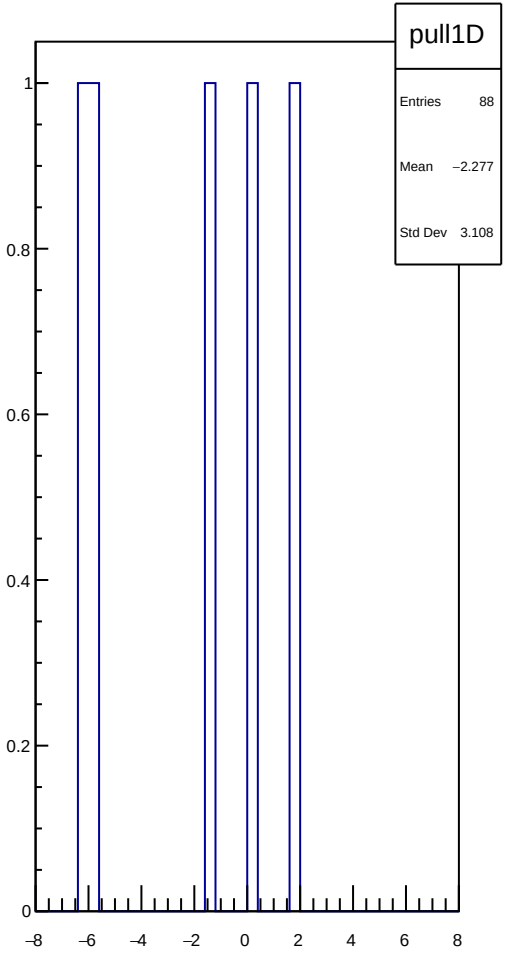

yield_sam3_rms vs run
χ² / ndf 2.822e+04 / 87
p0 0.1723 ± 0.0001336
0.35
0.3
0.25
0.2
0.15

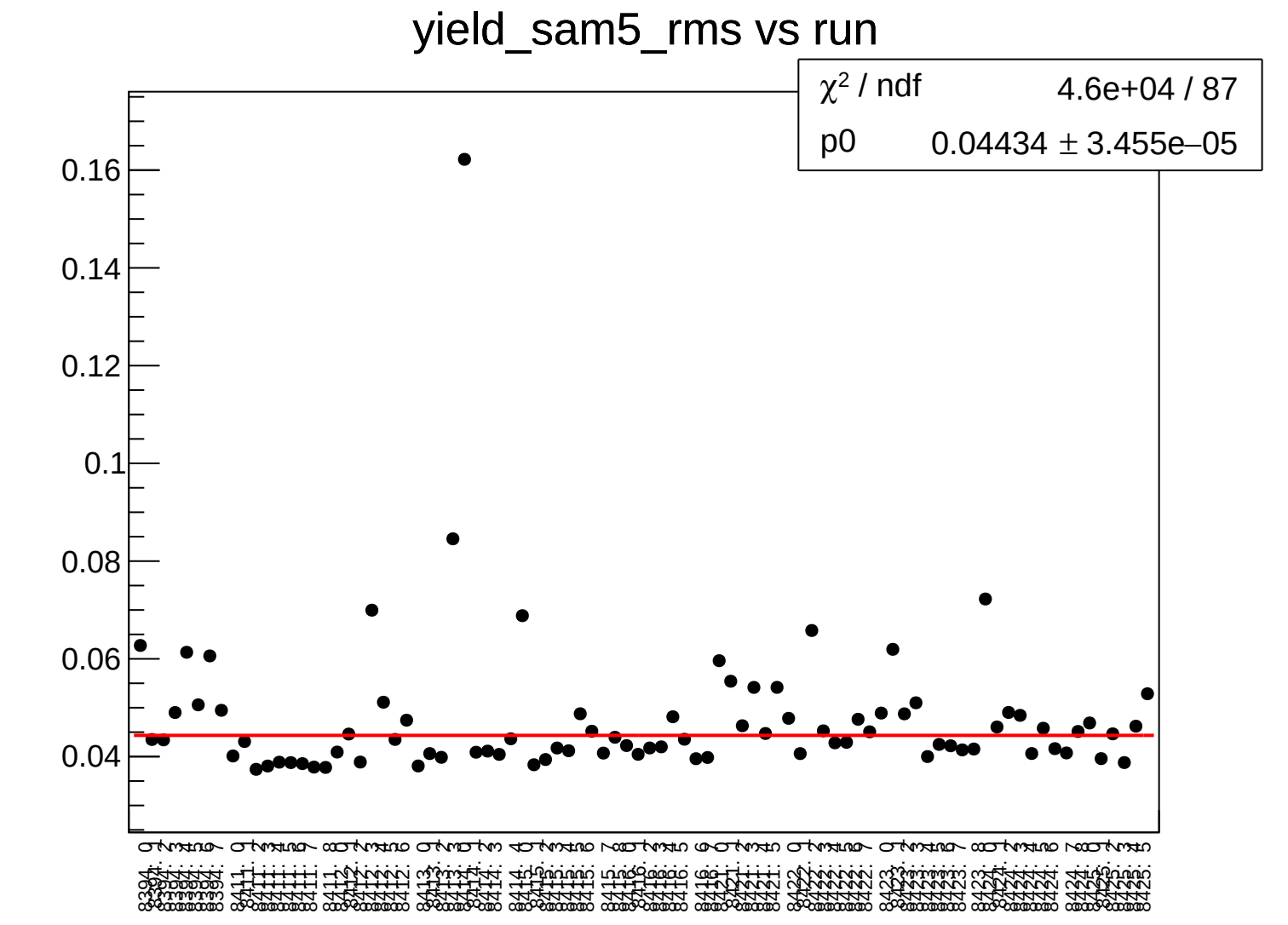

yield_sam4_mean vs run
χ² / ndf 1.44e+05 / 87
p0 14.81± 0.0001851
15
14.95
14.9
14.85
14.8
14.75
14.7
14.65
pull
Entries 88
Mean 319.5
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

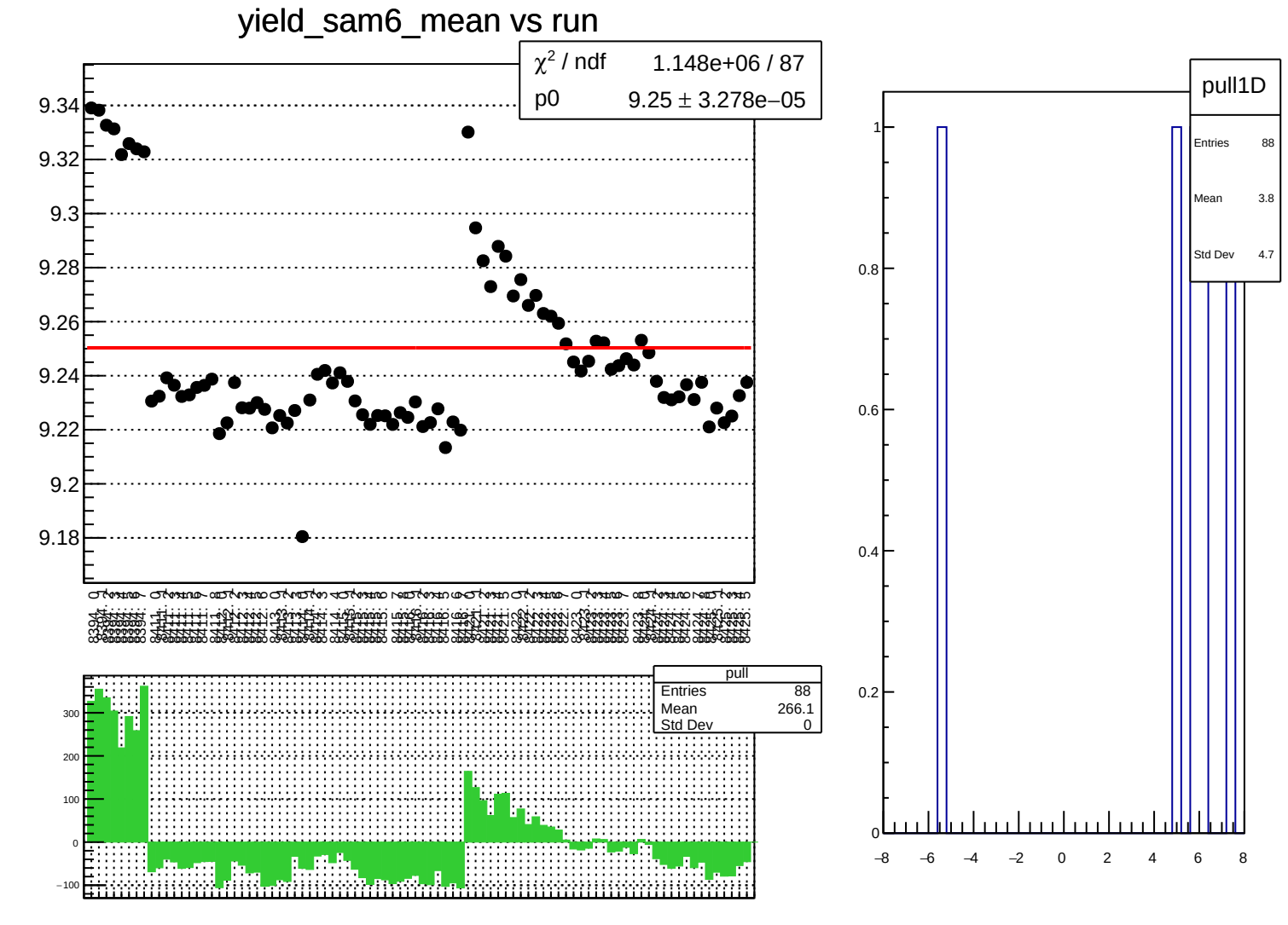

pull1D
Entries 88
Mean 1.779
Std Dev 4.081
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

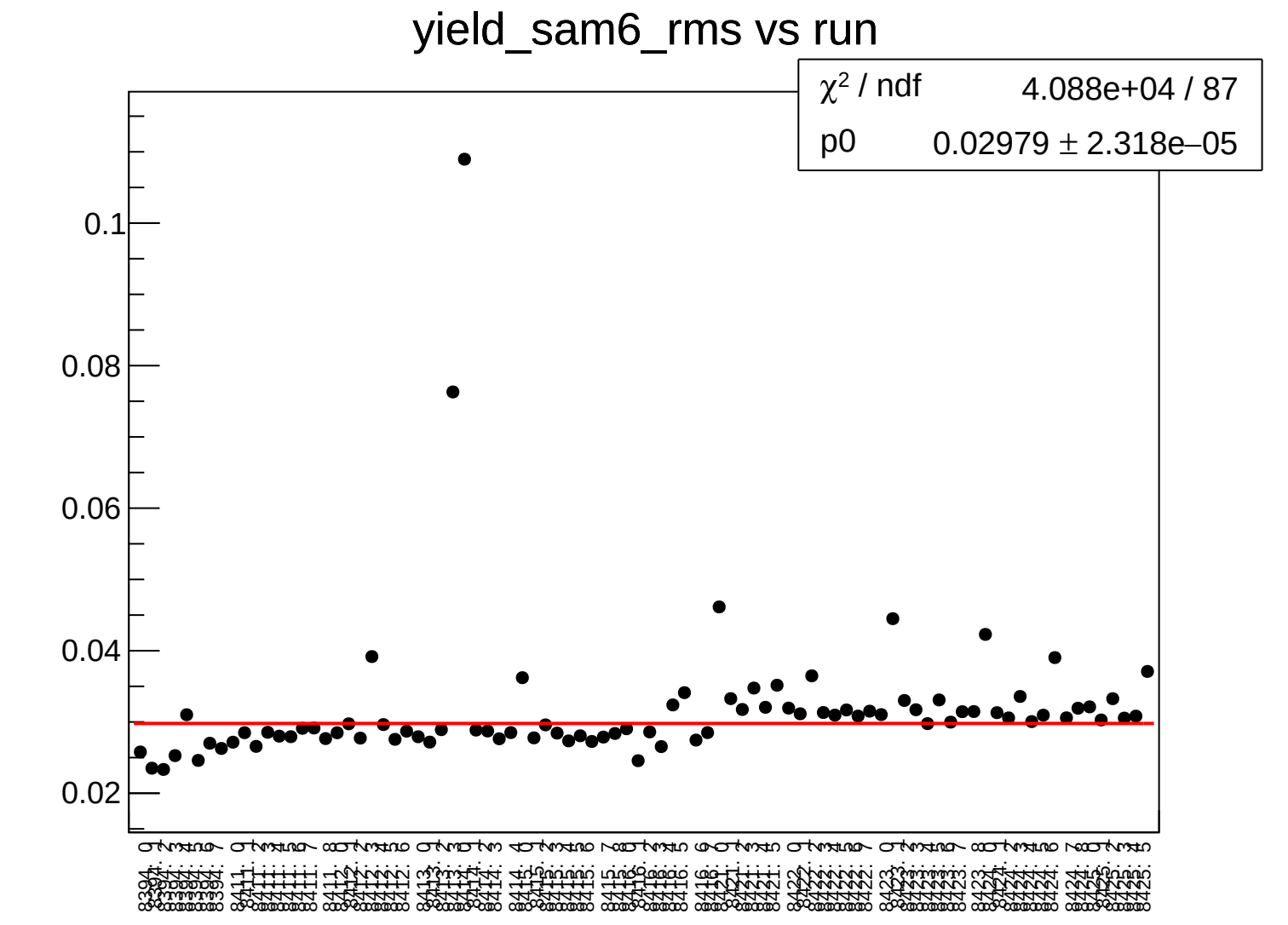

yield_sam4_rms vs run
χ² / ndf 2.372e+04 / 87
p0 0.1691 ± 0.0001309
0.34
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14

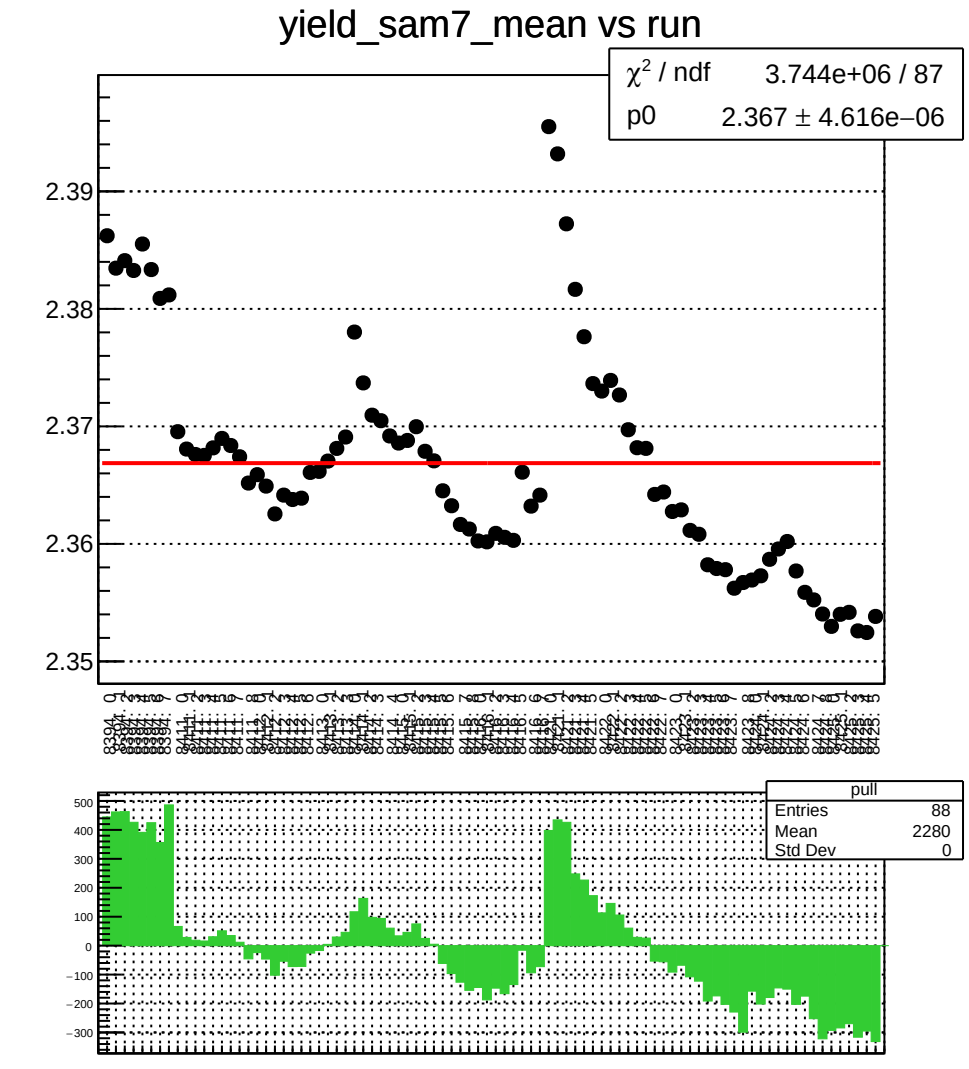

yield_sam5_mean vs run
χ² / ndf 1.258e+06 / 87
p0 17.71± 4.887e−05
17.85
17.8
17.75
17.7
17.65
17.6
pull
Entries 88
Mean 32.56
Std Dev 50.93
300
200
100
0
−100
−200

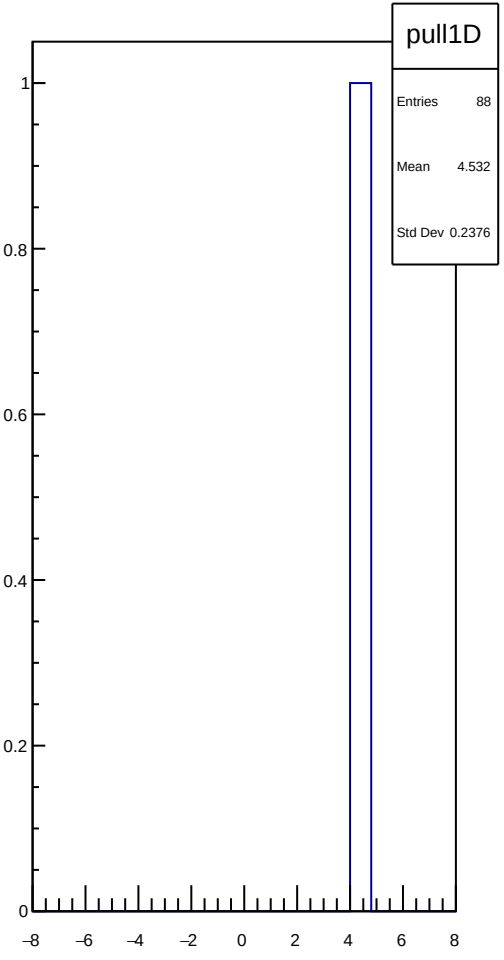

pull1D
Entries 88
Mean −2.277
Std Dev 3.108
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

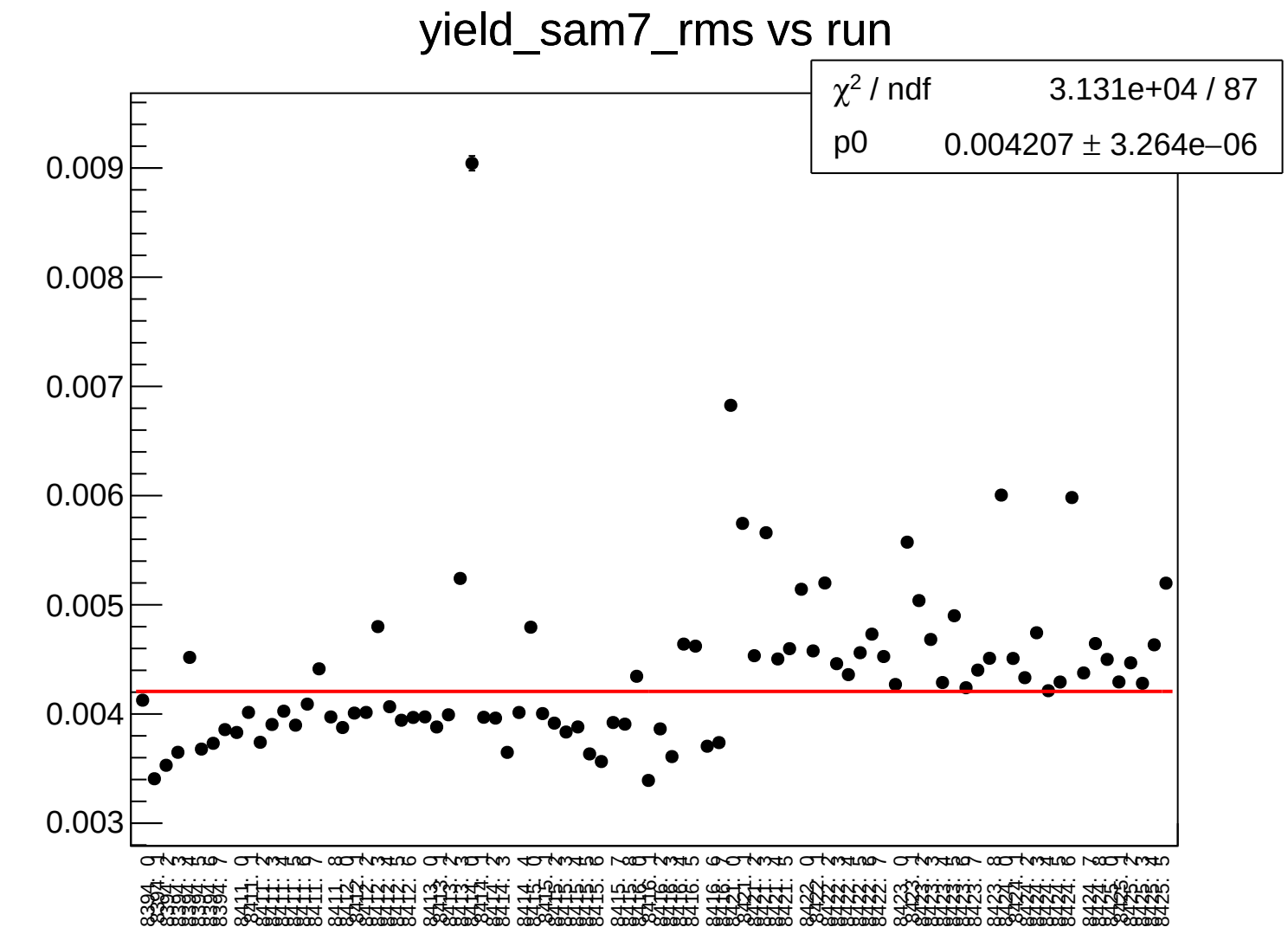

yield_sam5_rms vs run
χ² / ndf 4.6e+04 / 87
p0 0.04434 ± 3.455e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04

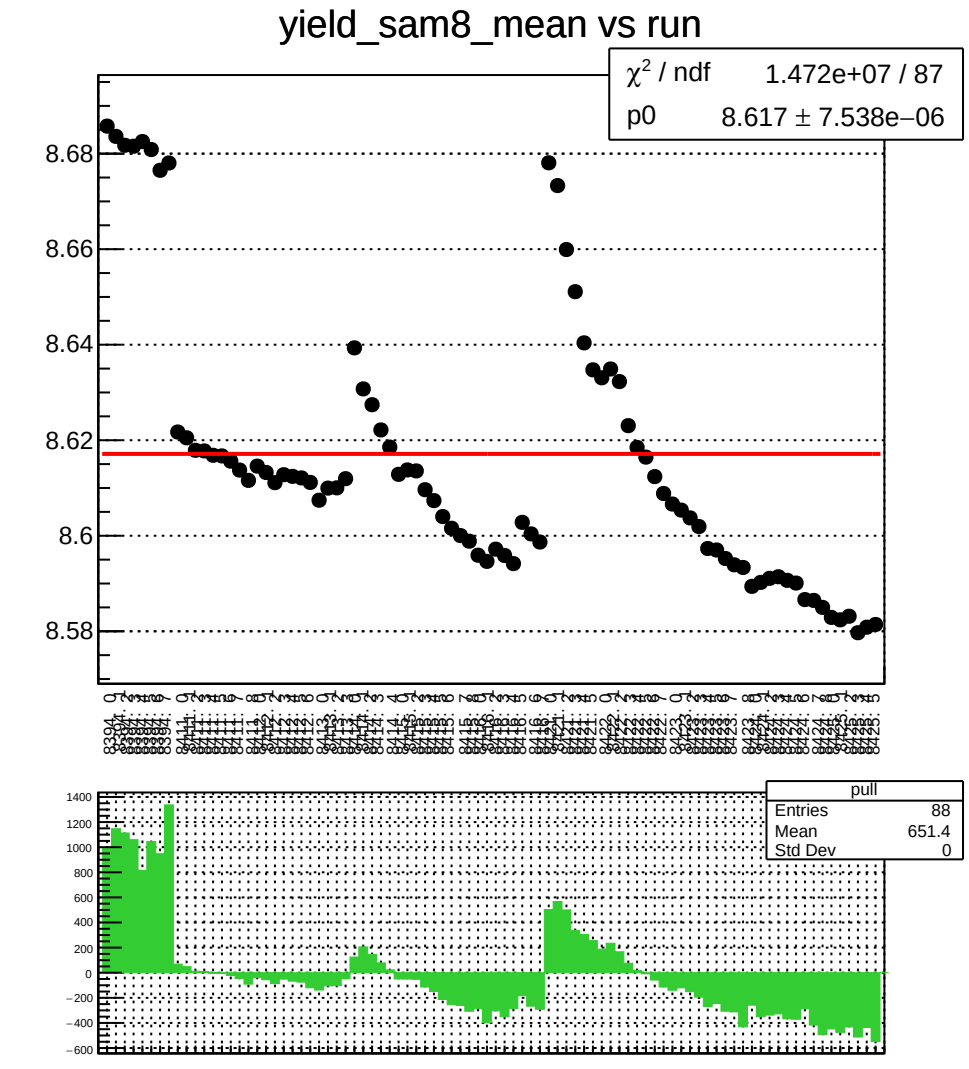

yield_sam6_mean vs run
χ² / ndf 1.148e+06 / 87
p0 9.25 ± 3.278e−05
9.34
9.32
9.3
9.28
9.26
9.24
9.22
9.2
9.18
pull
Entries 88
Mean 266.1
Std Dev 0
300
200
100
0
−100
pull1D
Entries 88
Mean 3.8
Std Dev 4.7
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

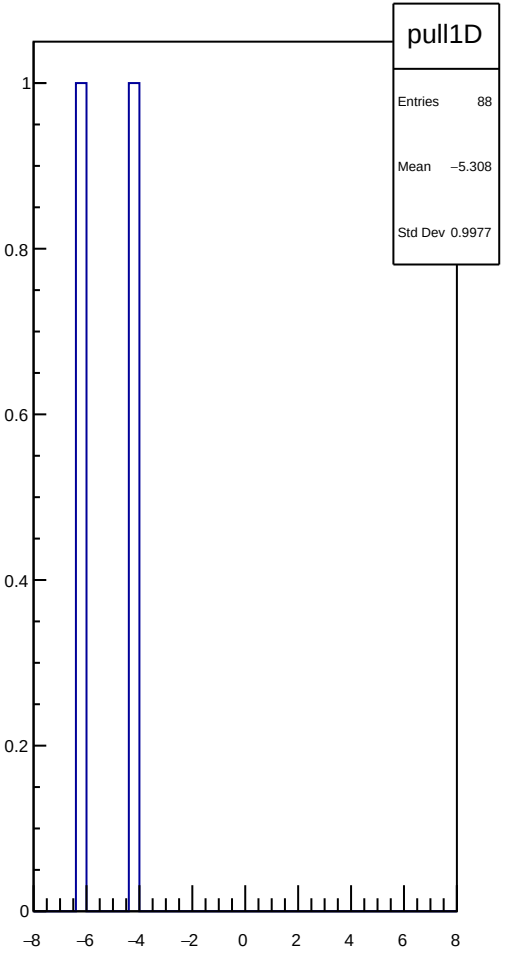

yield_sam6_rms vs run
χ² / ndf 4.088e+04 / 87
p0 0.02979 ± 2.318e−05
0.1
0.08
0.06
0.04
0.02

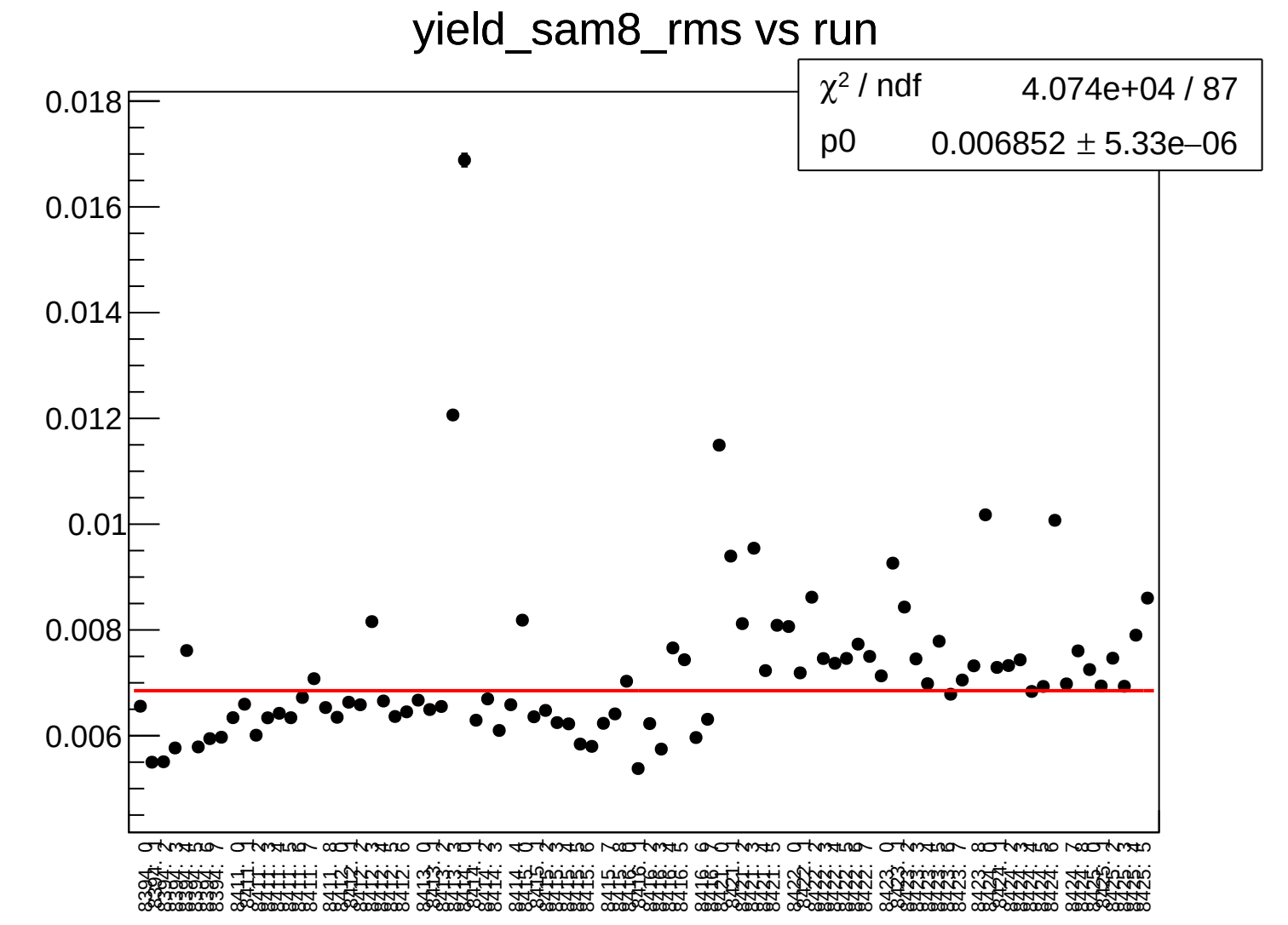

yield_sam7_mean vs run
χ² / ndf 3.744e+06 / 87
p0 2.367 ± 4.616e−06
2.39
2.38
2.37
2.36
2.35
pull
Entries 88
Mean 2280
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

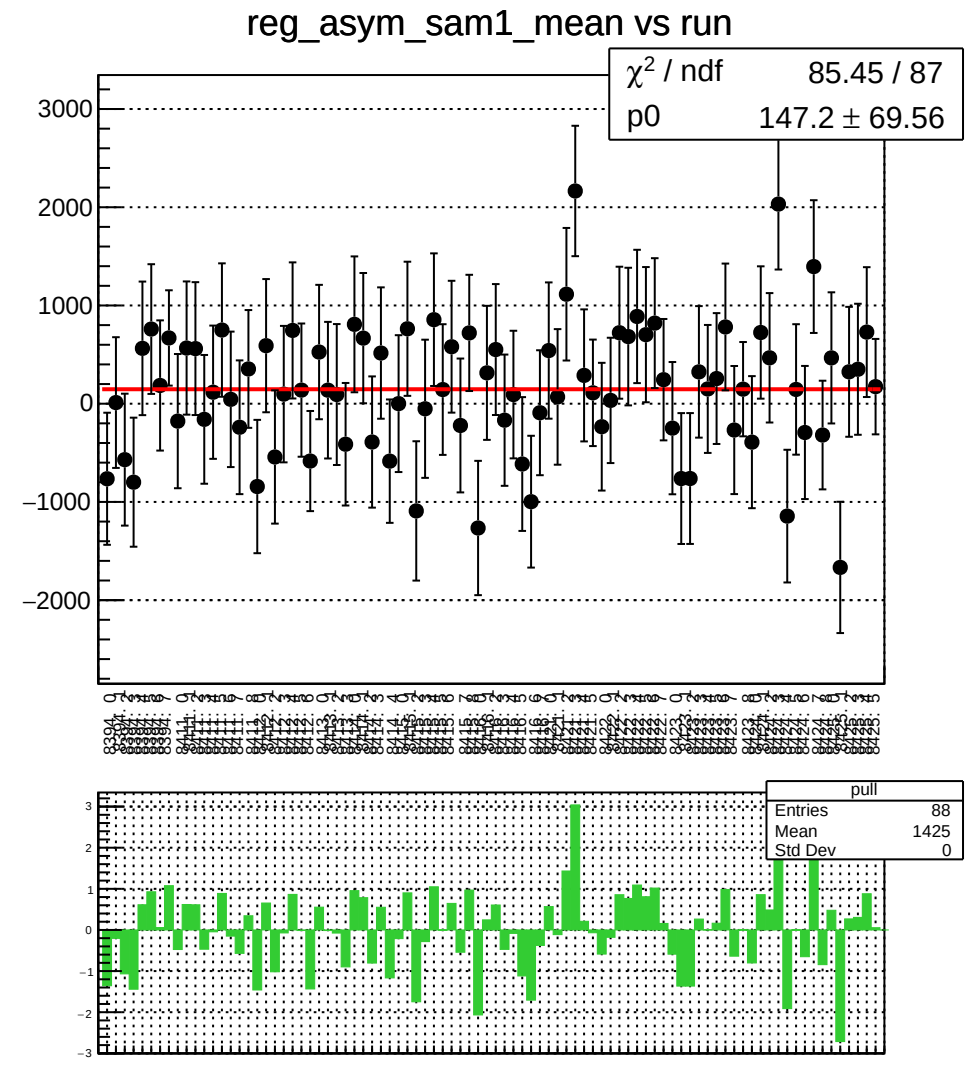

pull1D
Entries 88
Mean 4.532
Std Dev 0.2376
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

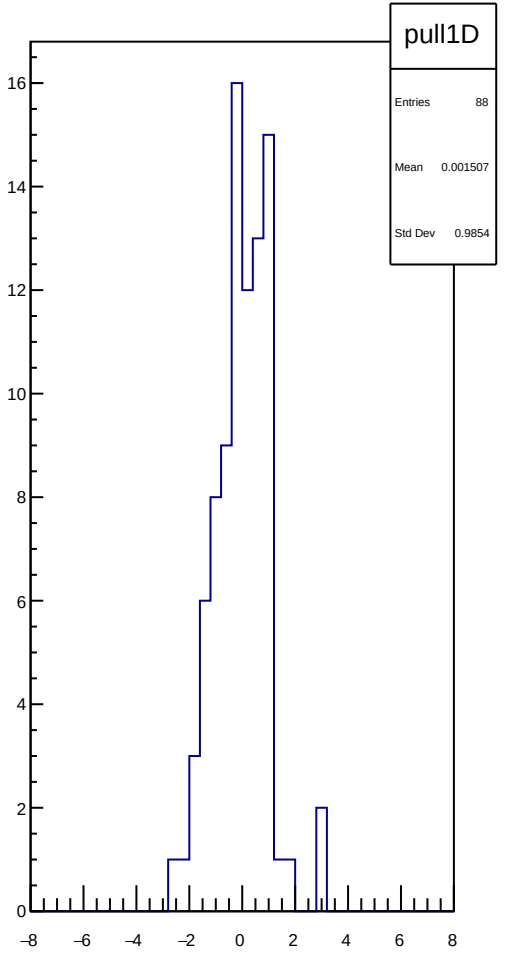

yield_sam7_rms vs run
χ² / ndf 3.131e+04 / 87
p0 0.004207 ± 3.264e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

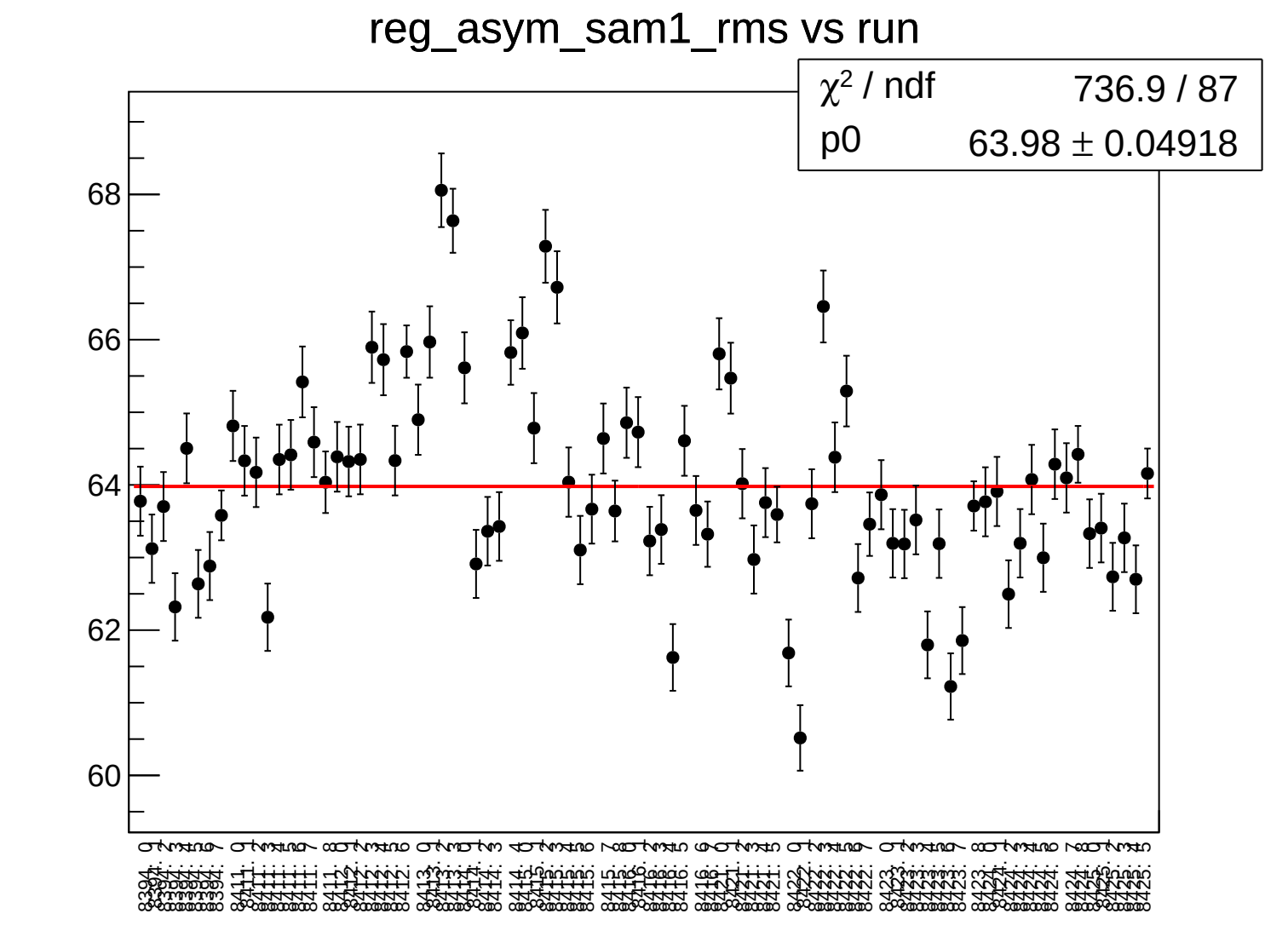

yield_sam8_mean vs run
χ² / ndf 1.472e+07 / 87
p0 8.617 ± 7.538e−06
8.68
8.66
8.64
8.62
8.6
8.58
pull
Entries 88
Mean 651.4
Std Dev 0
1400
1200
1000
800
600
400
200
0
−200
−400
−600

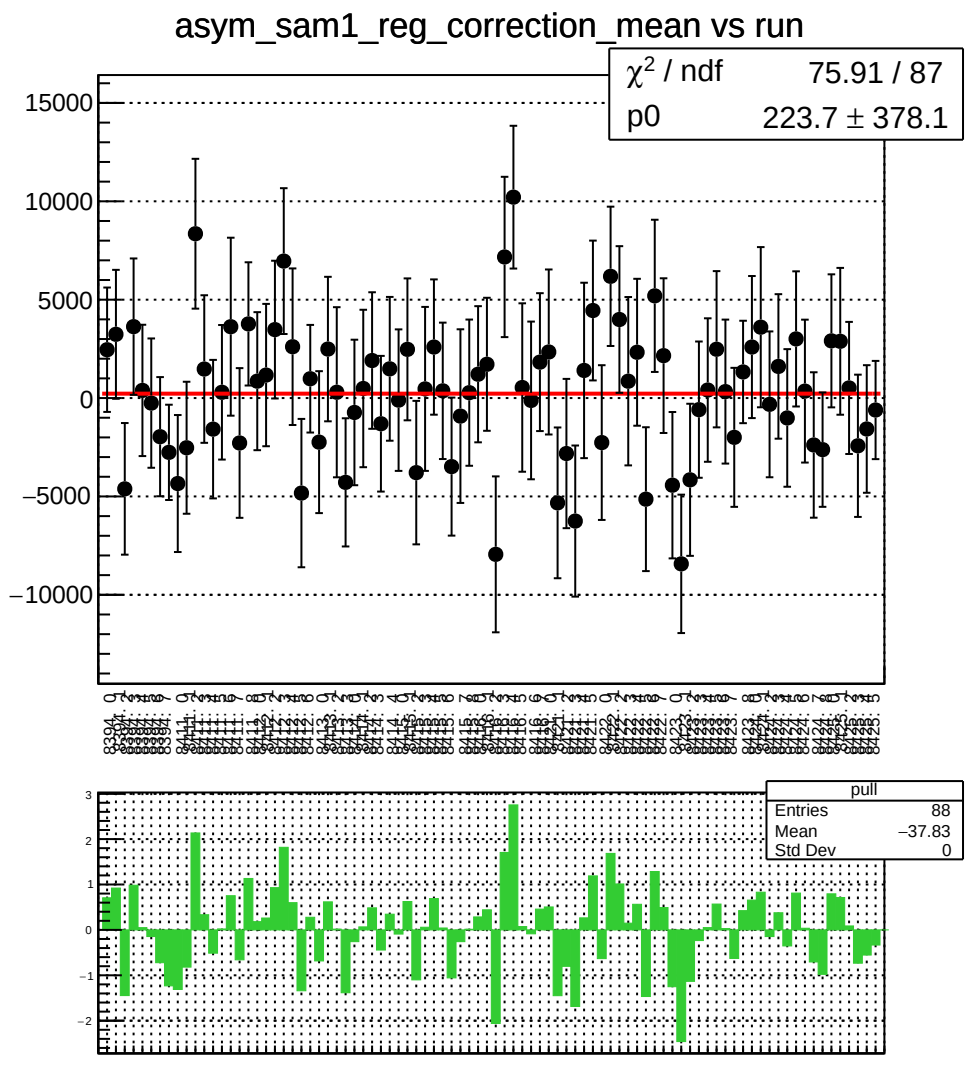

pull1D
Entries 88
Mean −5.308
Std Dev 0.9977
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

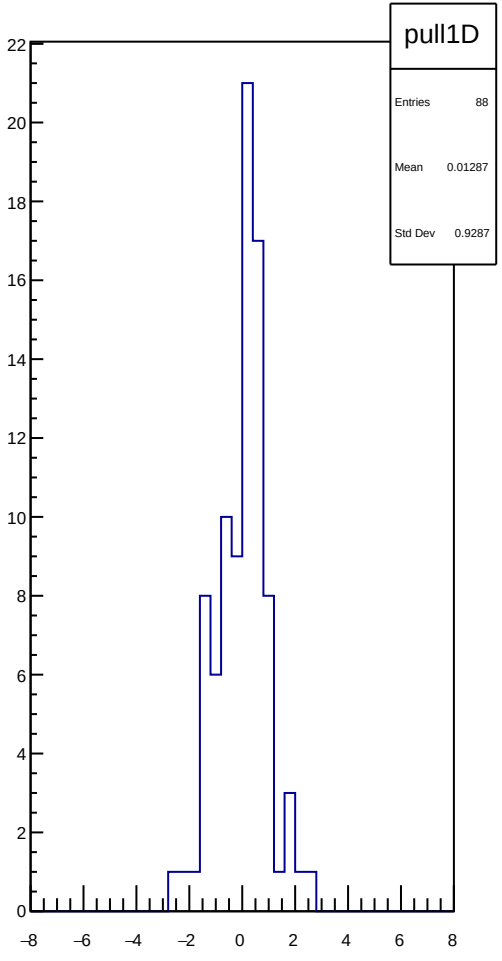

yield_sam8_rms vs run
χ² / ndf 4.074e+04 / 87
p0 0.006852 ± 5.33e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

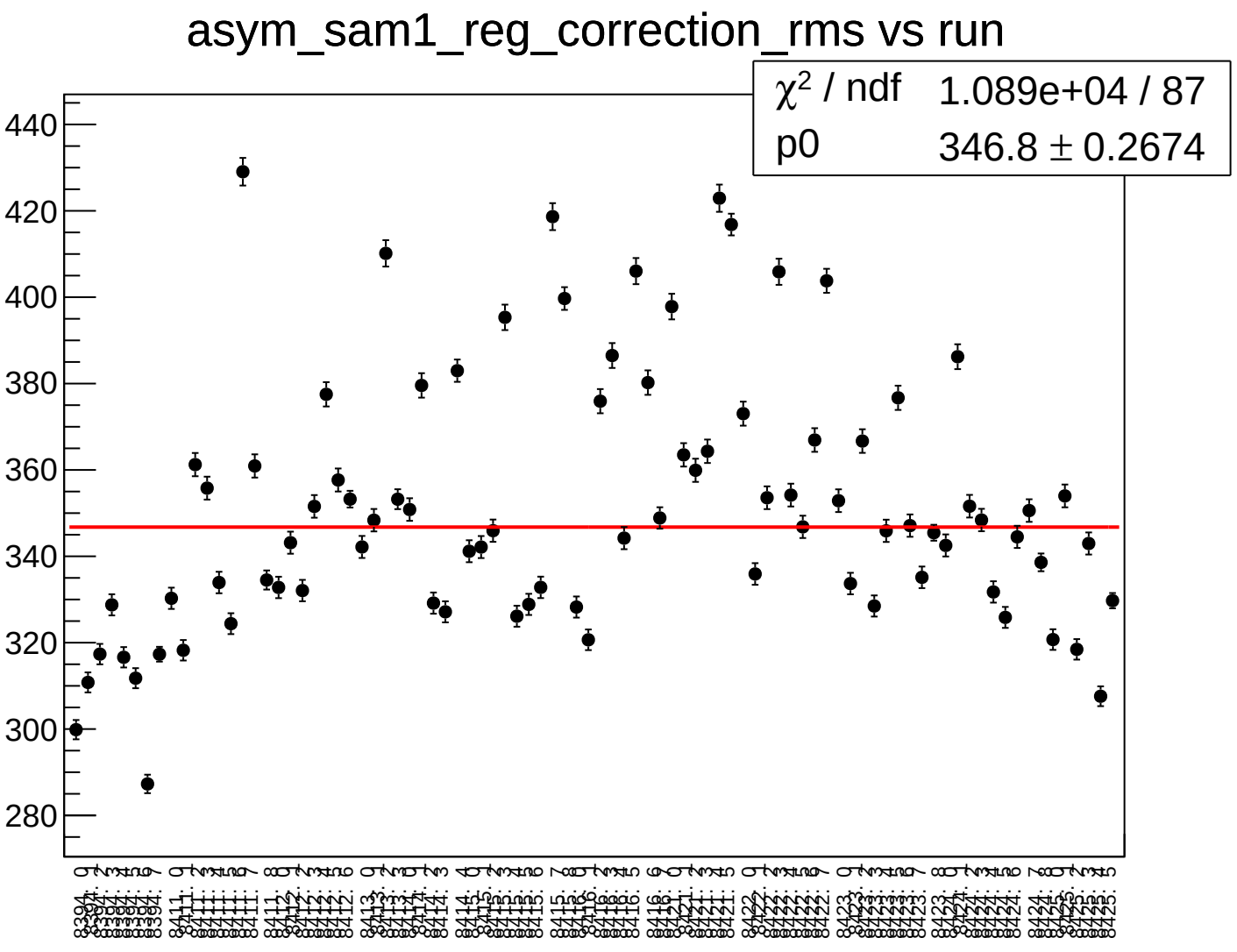

reg_asym_sam1_mean vs run
χ² / ndf 85.45 / 87
p0 147.2 ± 69.56
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 1425
Std Dev 0
3
2
1
0
−1
−2
−3

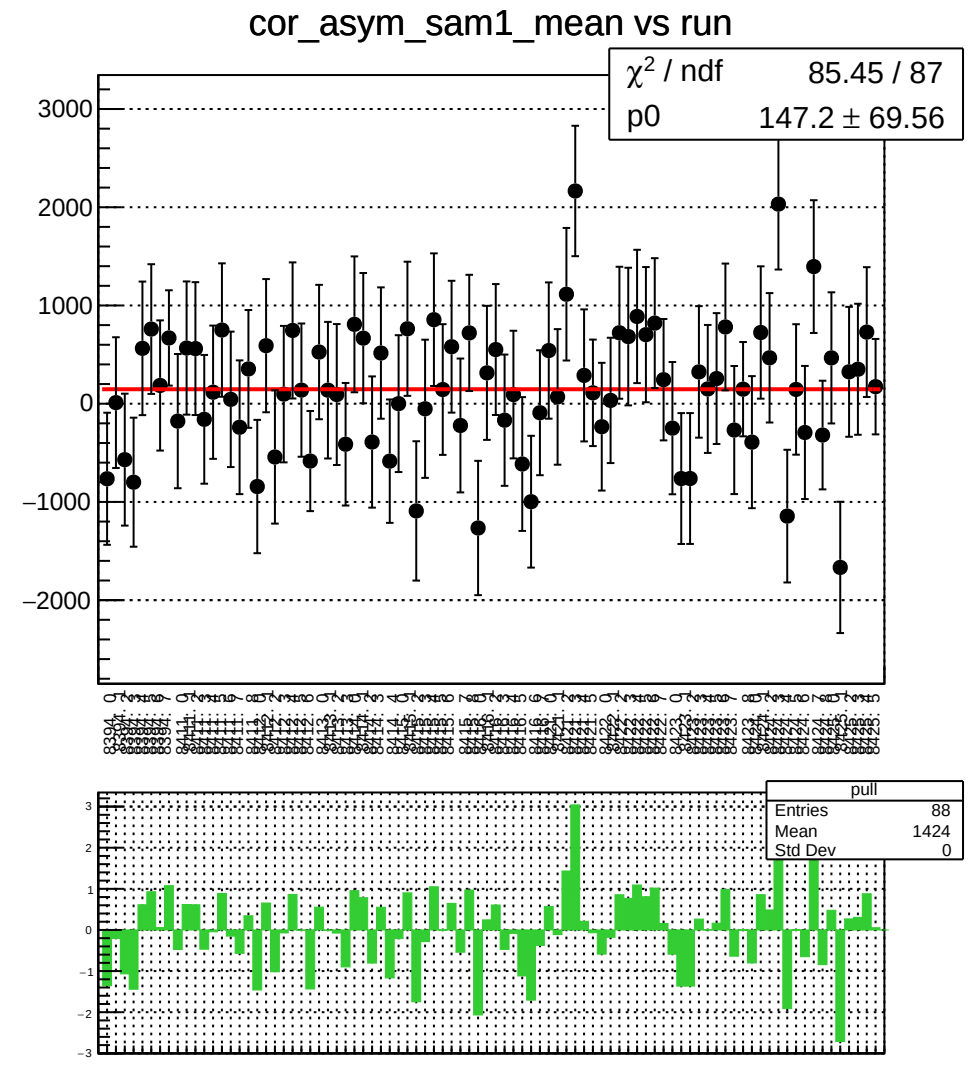

pull1D
Entries 88
Mean 0.001507
Std Dev 0.9854
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

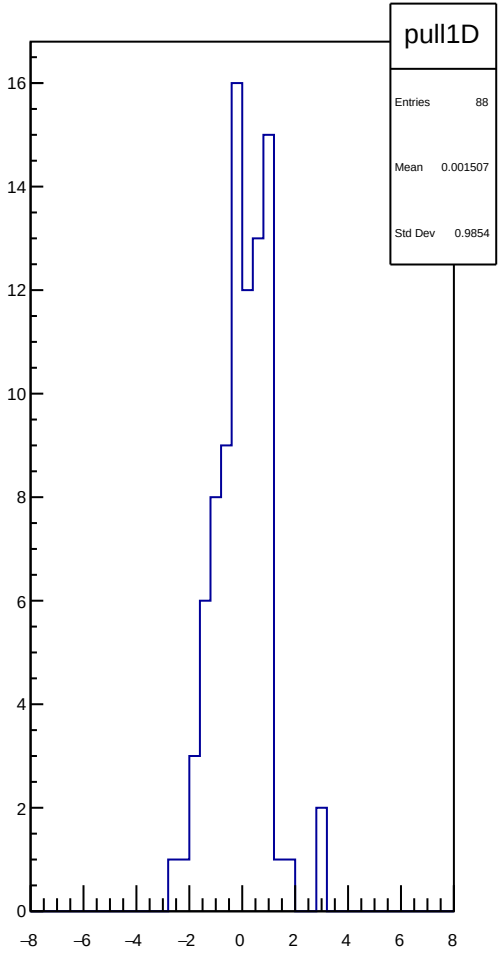

reg_asym_sam1_rms vs run
χ² / ndf 736.9 / 87
p0 63.98 ± 0.04918
68
66
64
62
60

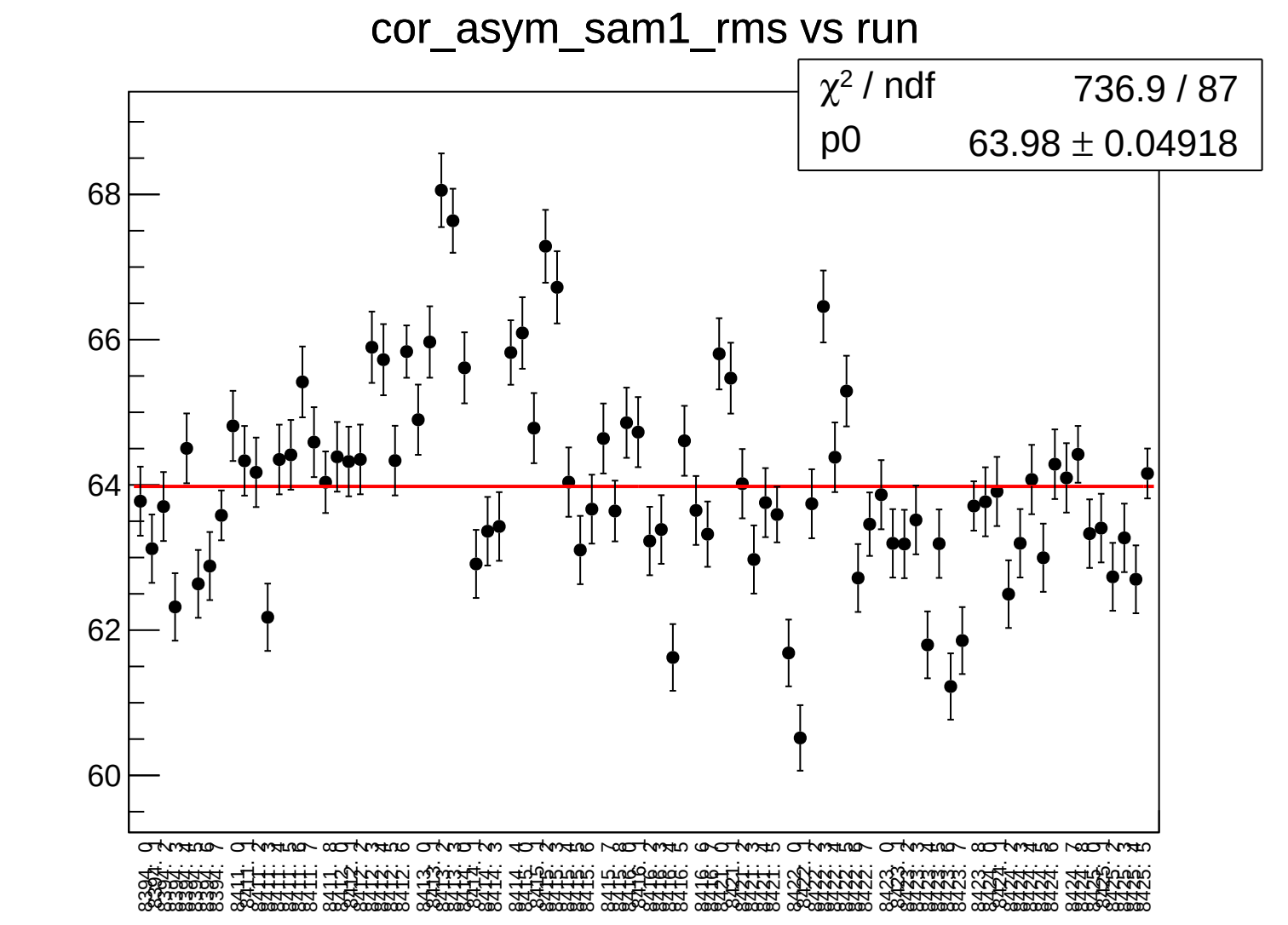

asym_sam1_reg_correction_mean vs run
χ² / ndf 75.91 / 87
p0 223.7 ± 378.1
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −37.83
Std Dev 0
3
2
1
0
−1
−2

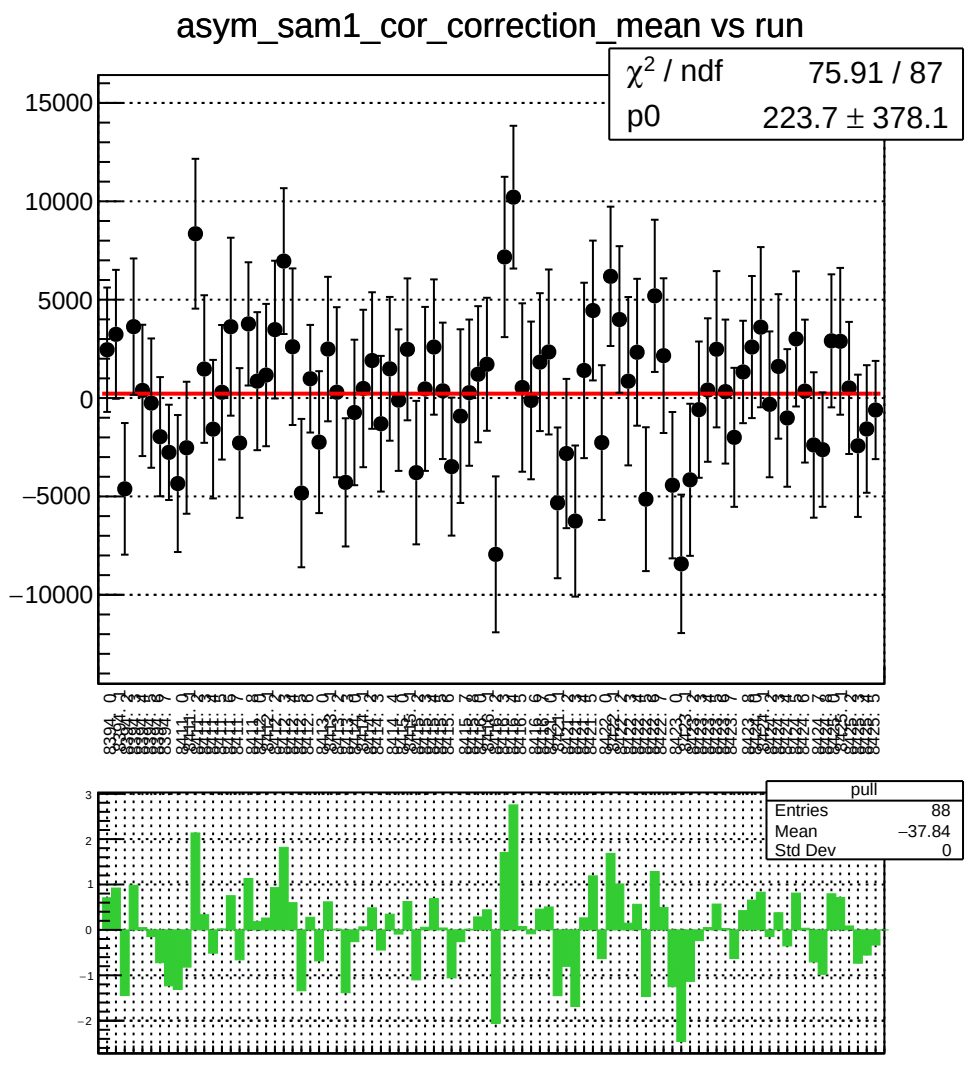

pull1D
Entries 88
Mean 0.01287
Std Dev 0.9287
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

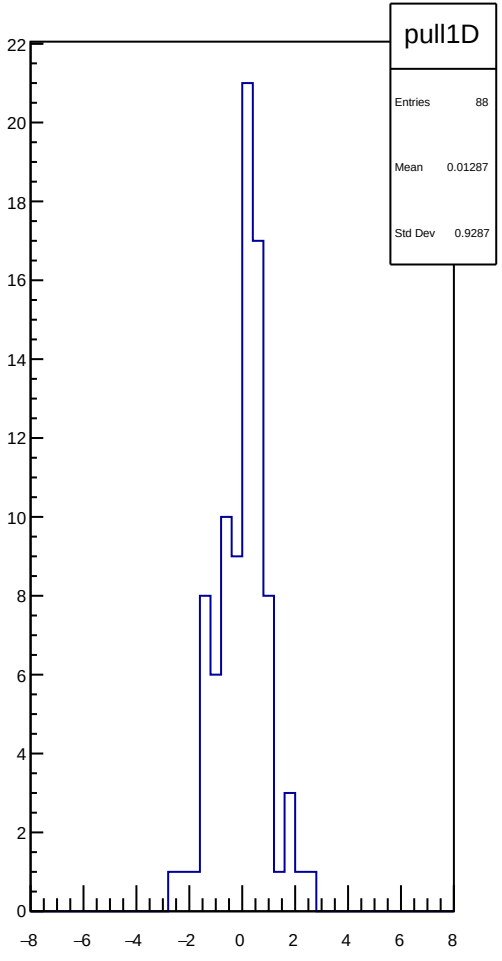

asym_sam1_reg_correction_rms vs run
χ^2 / ndf 1.089e+04 / 87
p0 346.8 ± 0.2674
440
420
400
380
360
340
320
300
280

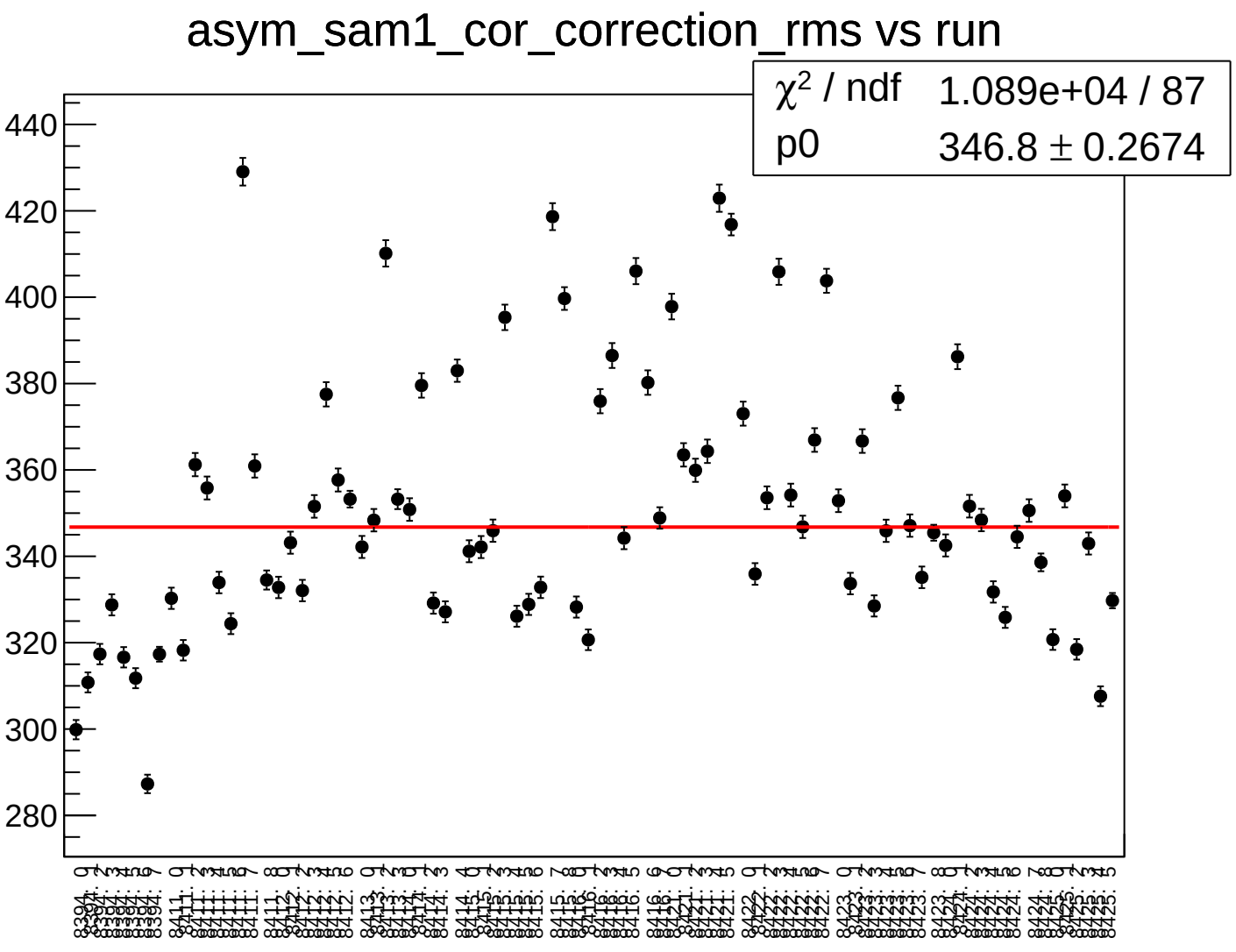

cor_asym_sam1_mean vs run
χ² / ndf 85.45 / 87
p0 147.2 ± 69.56
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 1424
Std Dev 0
3
2
1
0
−1
−2
−3

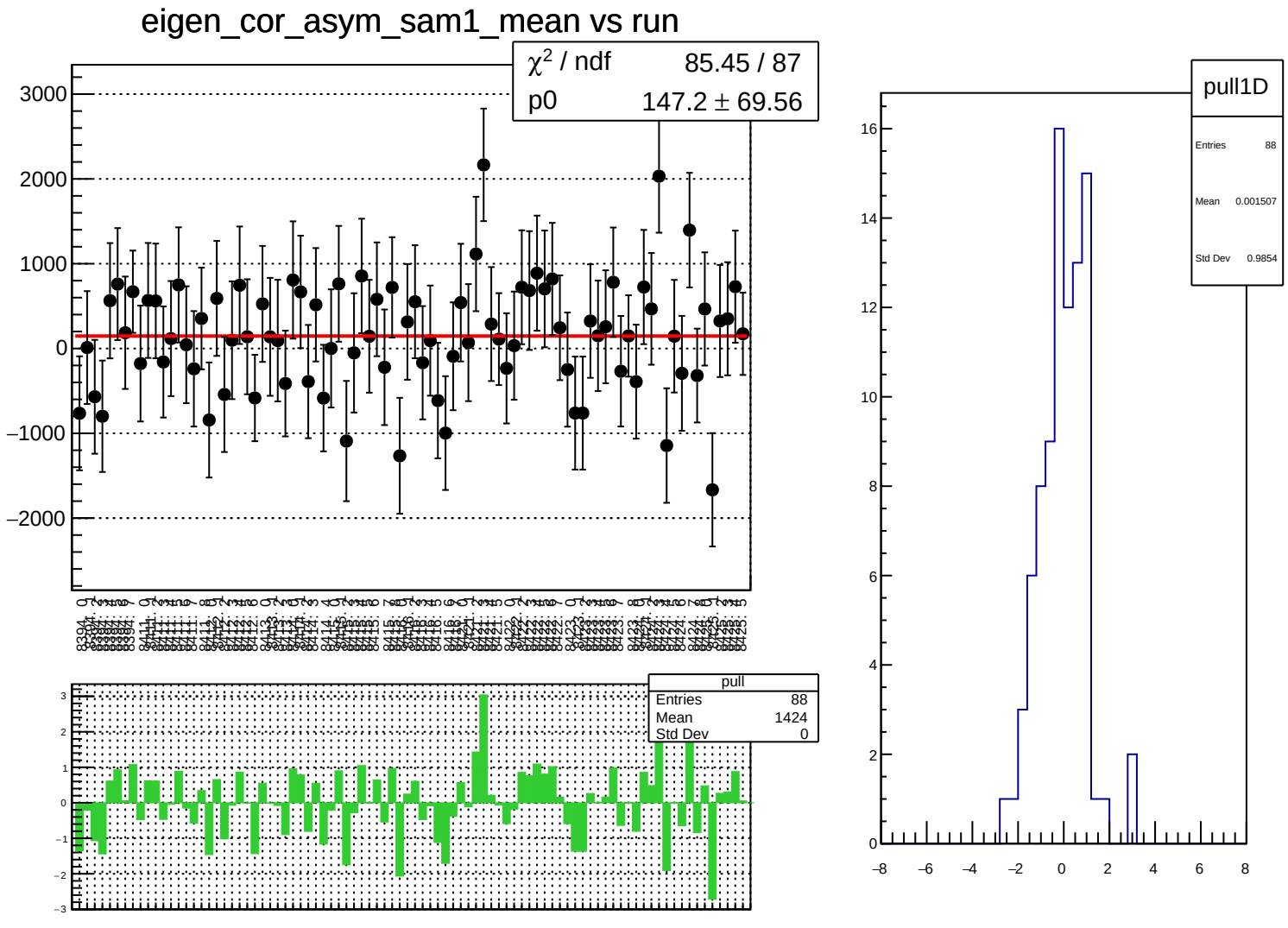

pull1D
Entries 88
Mean 0.001507
Std Dev 0.9854
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

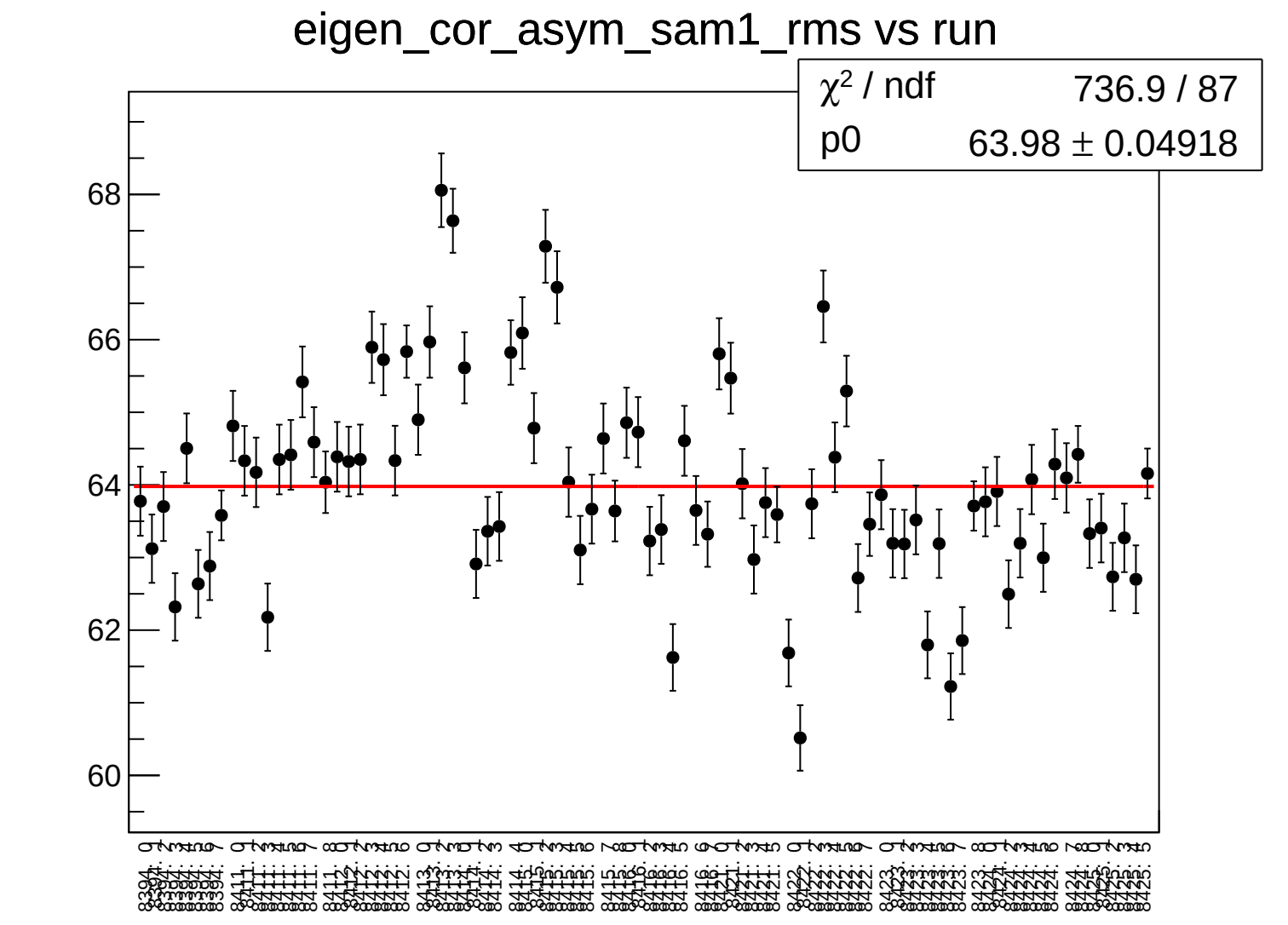

cor_asym_sam1_rms vs run
χ^2 / ndf 736.9 / 87
p0 63.98 ± 0.04918
68
66
64
62
60

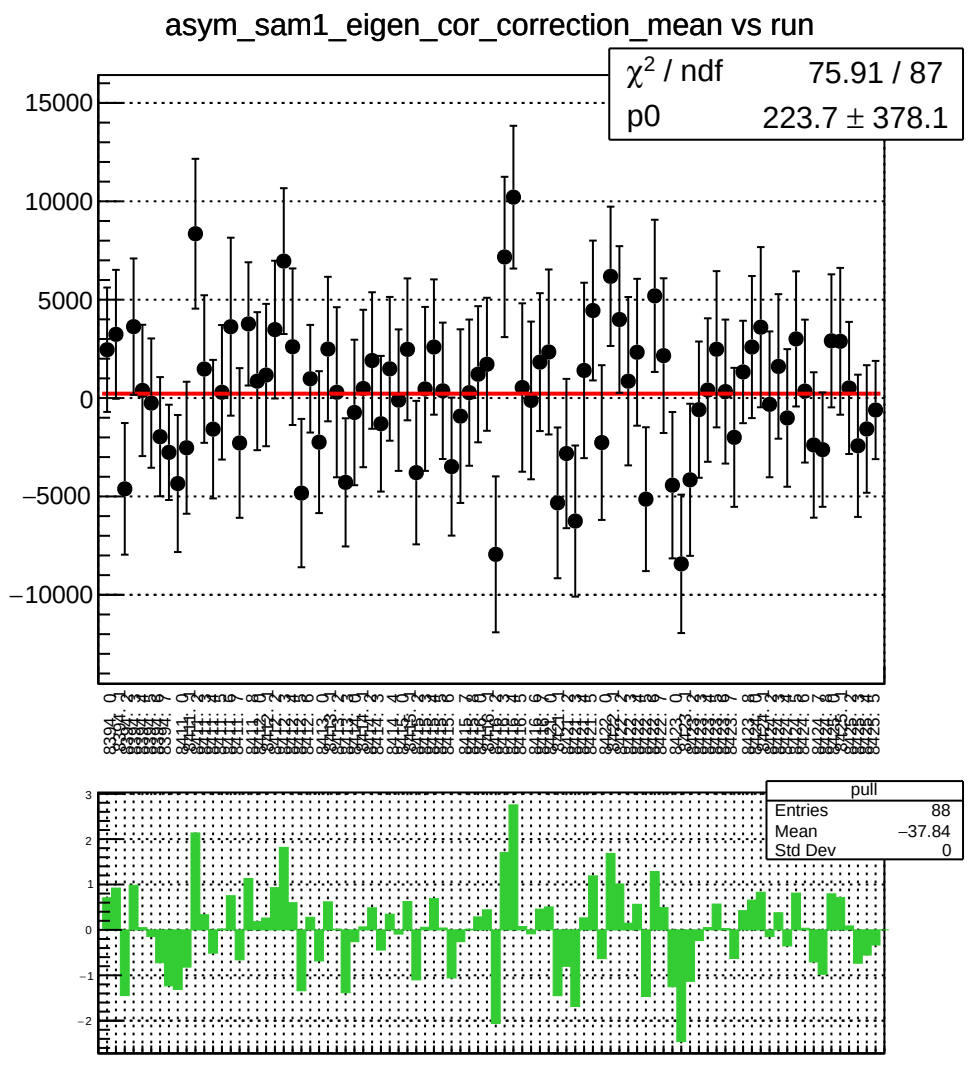

asym_sam1_cor_correction_mean vs run
χ² / ndf 75.91 / 87
p0 223.7 ± 378.1
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −37.84
Std Dev 0
3
2
1
0
−1
−2

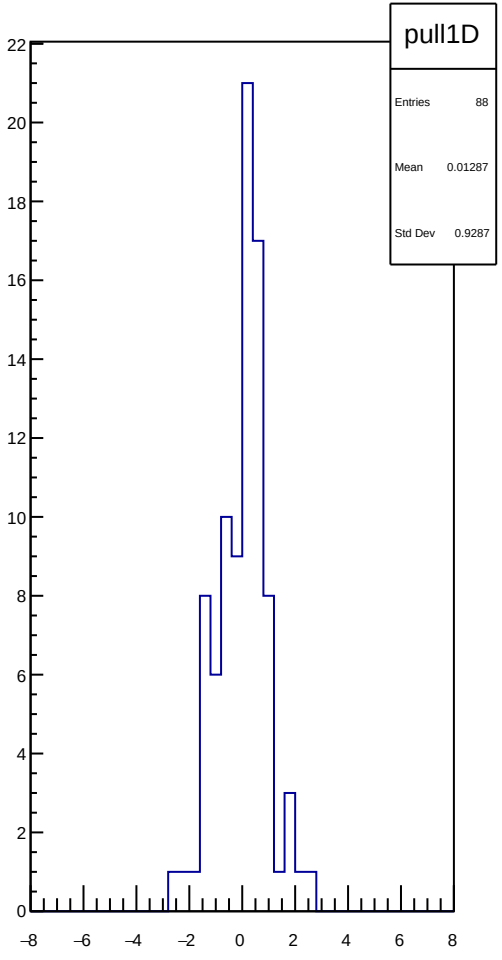

pull1D
Entries 88
Mean 0.01287
Std Dev 0.9287
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

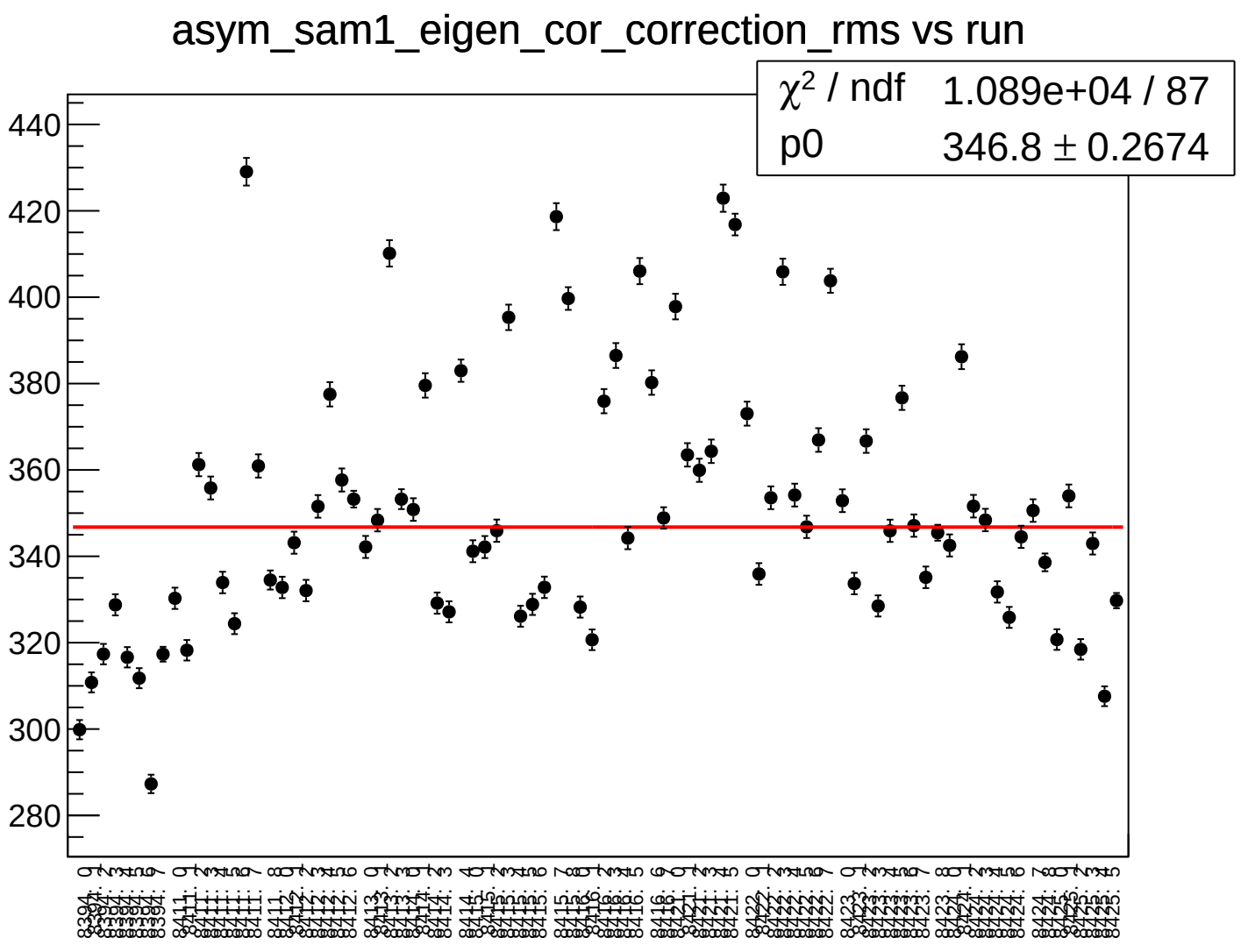

asym_sam1_cor_correction_rms vs run
χ² / ndf 1.089e+04 / 87
p0 346.8 ± 0.2674
440
420
400
380
360
340
320
300
280

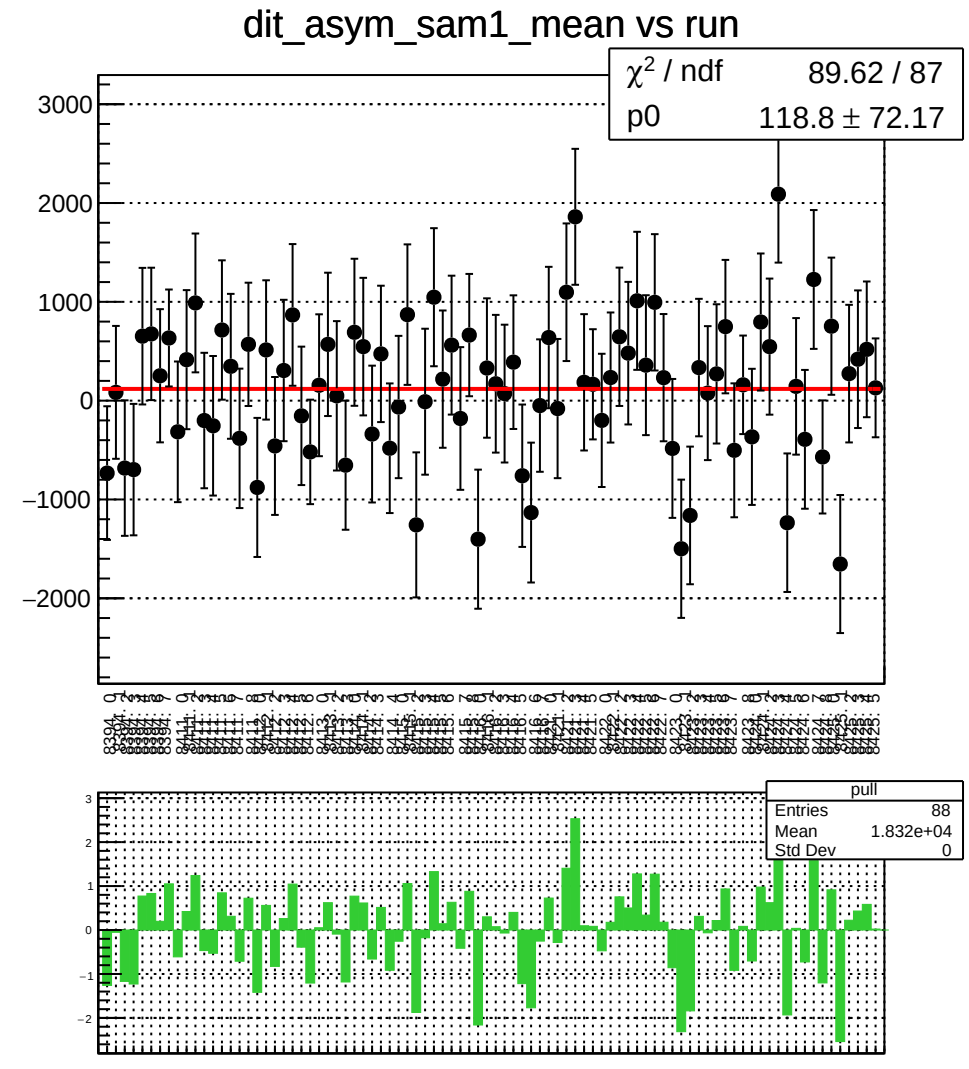

eigen_cor_asym_sam1_mean vs run
χ² / ndf 85.45 / 87
p0 147.2 ± 69.56
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 1424
Std Dev 0
pull1D
Entries 88
Mean 0.001507
Std Dev 0.9854
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

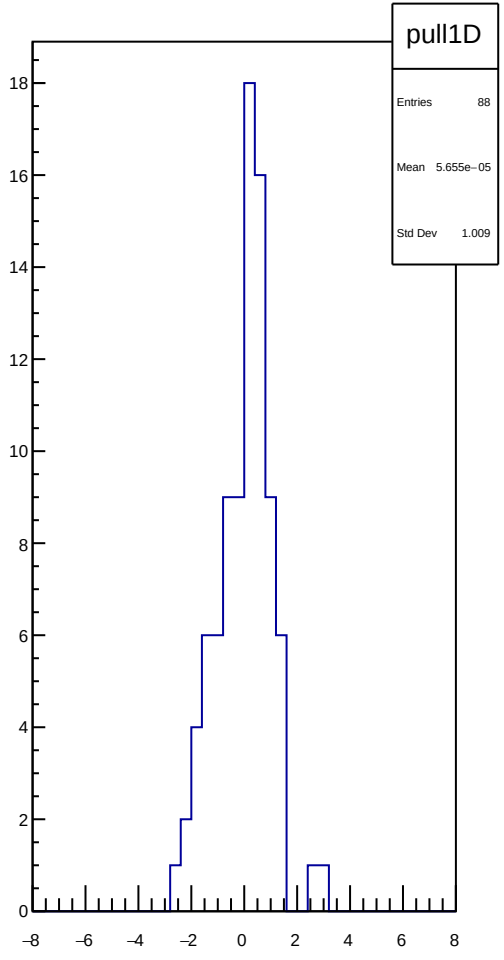

eigen_cor_asym_sam1_rms vs run
χ² / ndf 736.9 / 87
p0 63.98 ± 0.04918
68
66
64
62
60

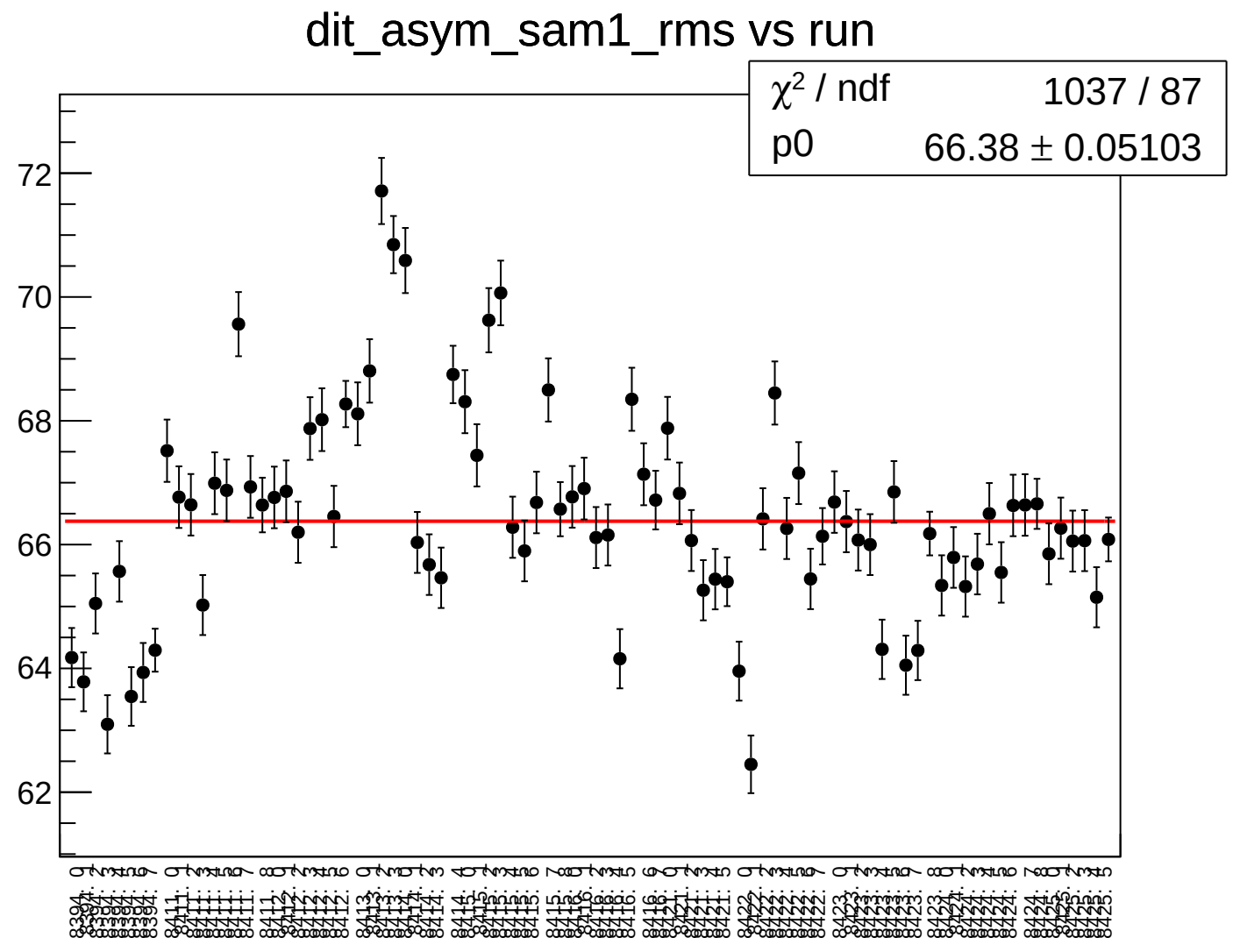

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 75.91 / 87
p0 223.7 ± 378.1
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −37.84
Std Dev 0
3
2
1
0
−1
−2

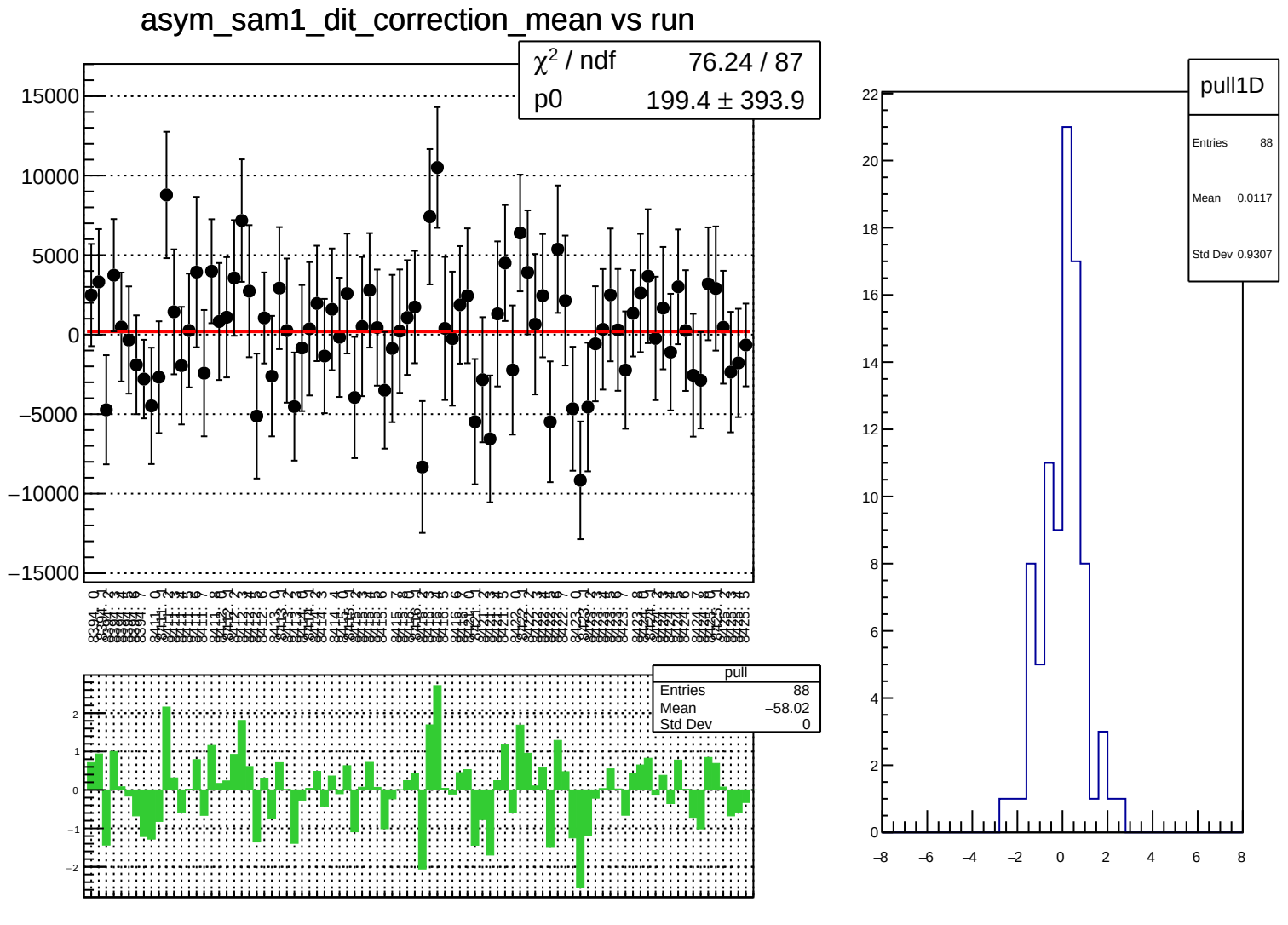

pull1D
Entries 88
Mean 0.01287
Std Dev 0.9287
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

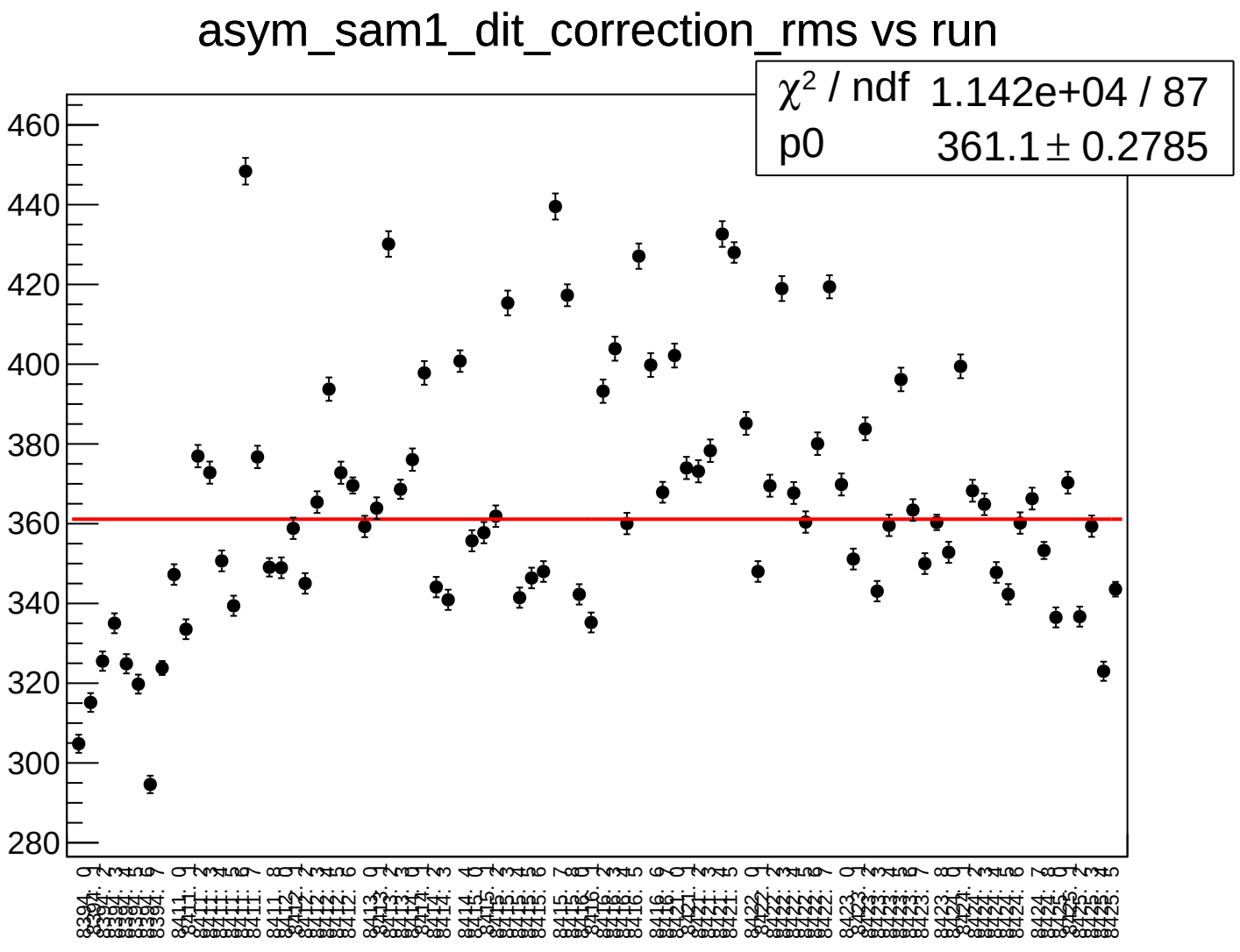

asym_sam1_eigen_cor_correction_rms vs run
χ^2 / ndf 1.089e+04 / 87
p0 346.8 ± 0.2674
440
420
400
380
360
340
320
300
280

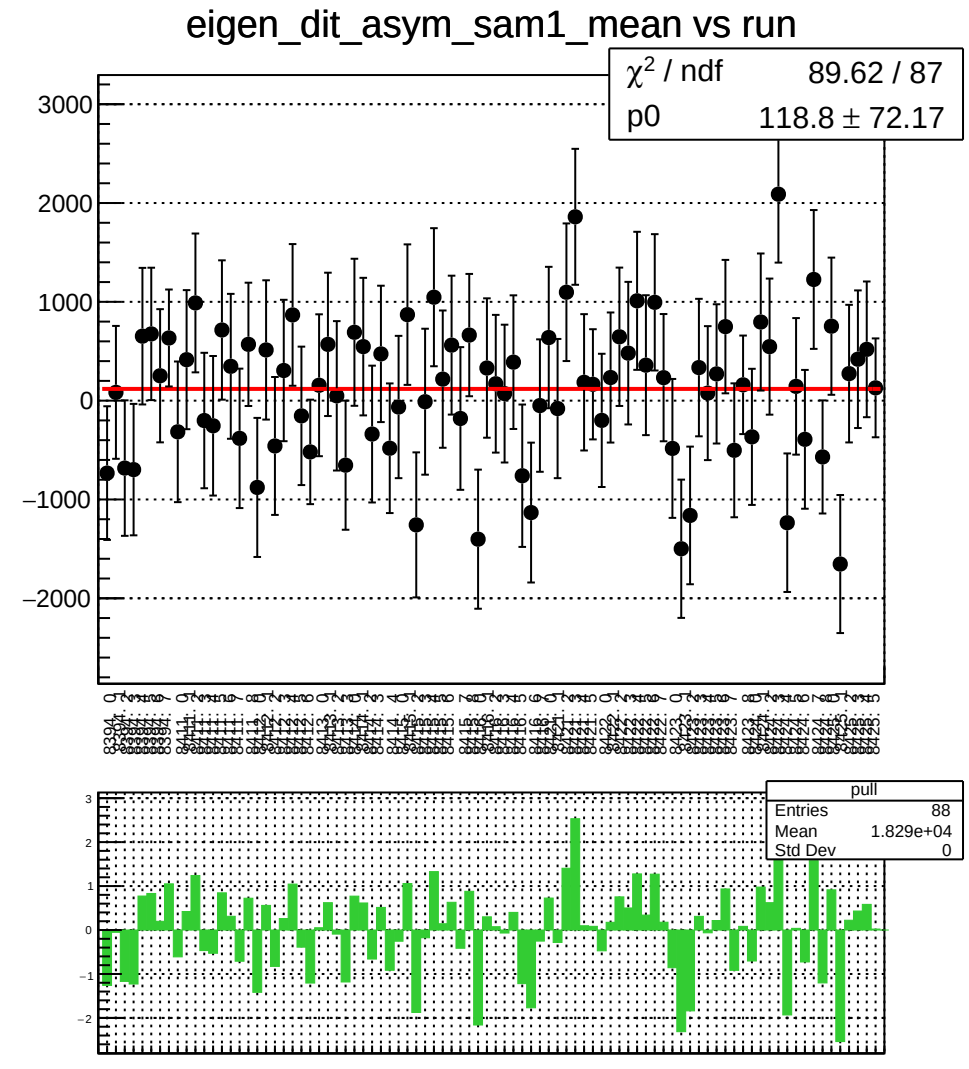

dit_asym_sam1_mean vs run
χ² / ndf 89.62 / 87
p0 118.8 ± 72.17
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 1.832e+04
Std Dev 0
3
2
1
0
−1
−2

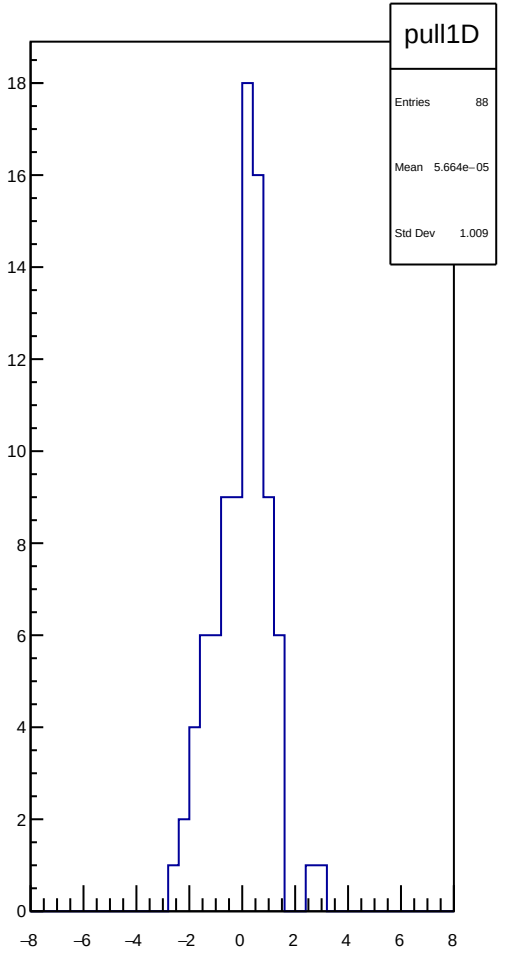

pull1D
Entries 88
Mean 5.655e−05
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

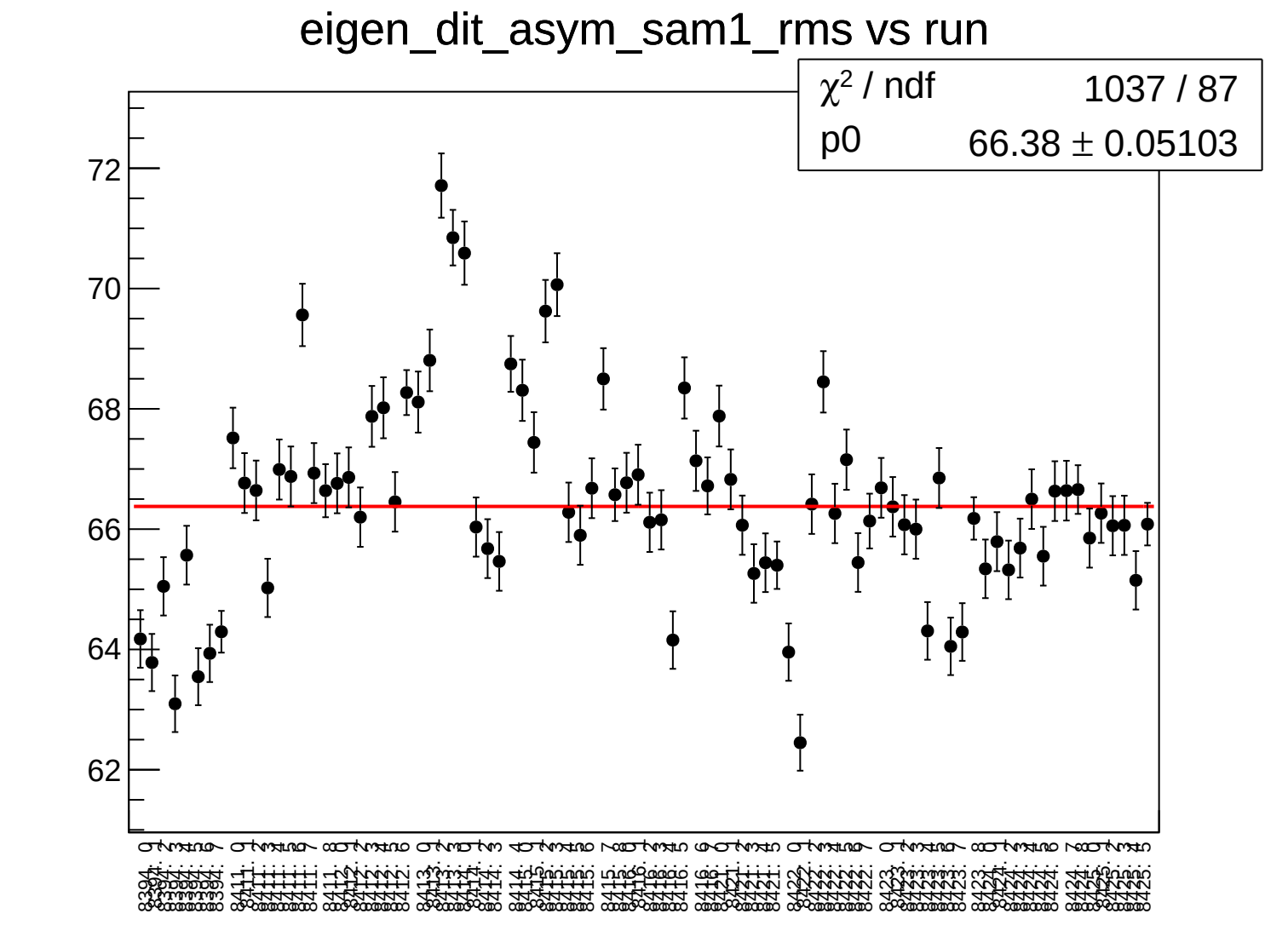

dit_asym_sam1_rms vs run
χ^2 / ndf 1037 / 87
p0 66.38 ± 0.05103
72
70
68
66
64
62

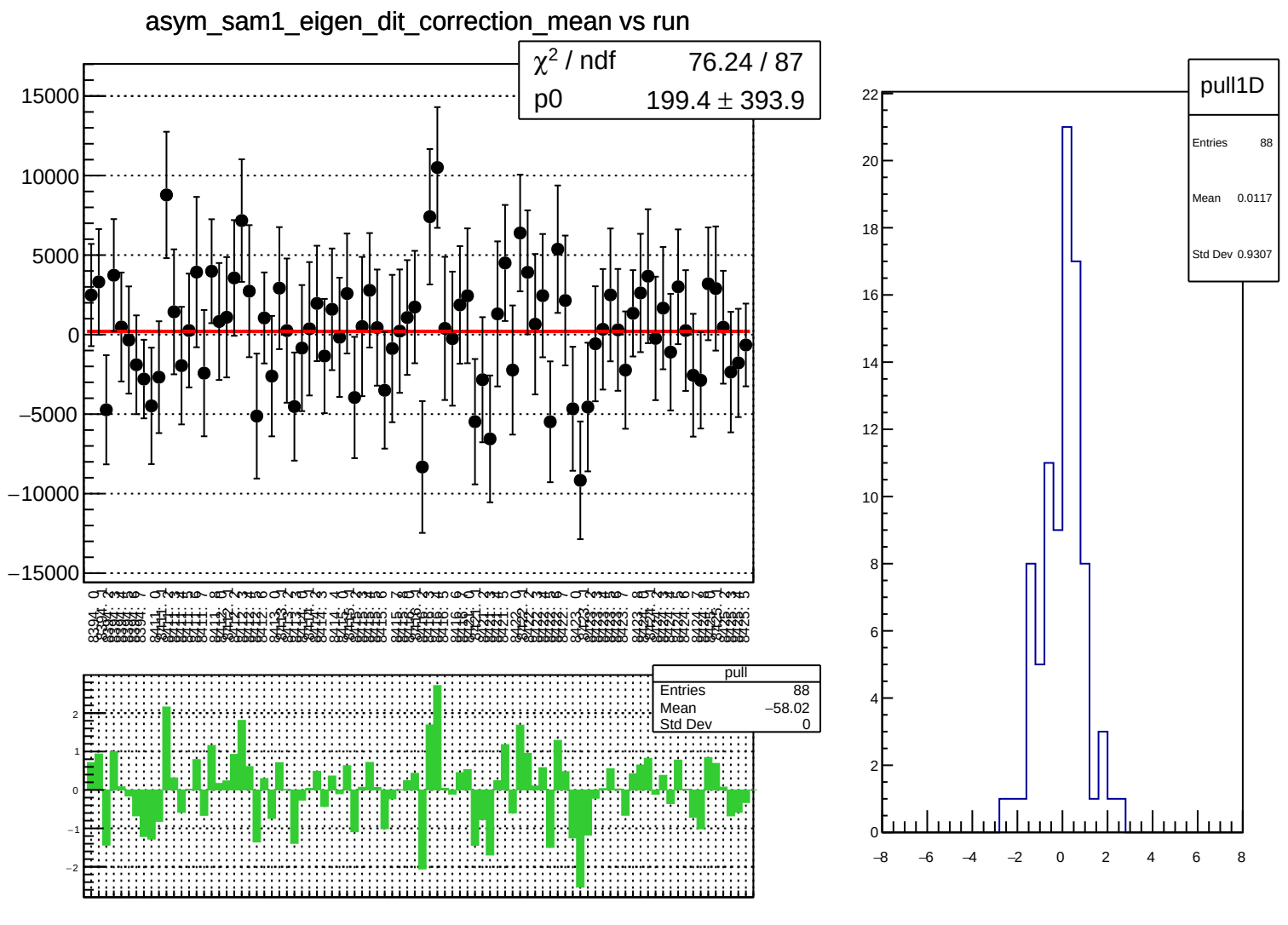

asym_sam1_dit_correction_mean vs run
χ² / ndf 76.24 / 87
p0 199.4 ± 393.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −58.02
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.0117
Std Dev 0.9307
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

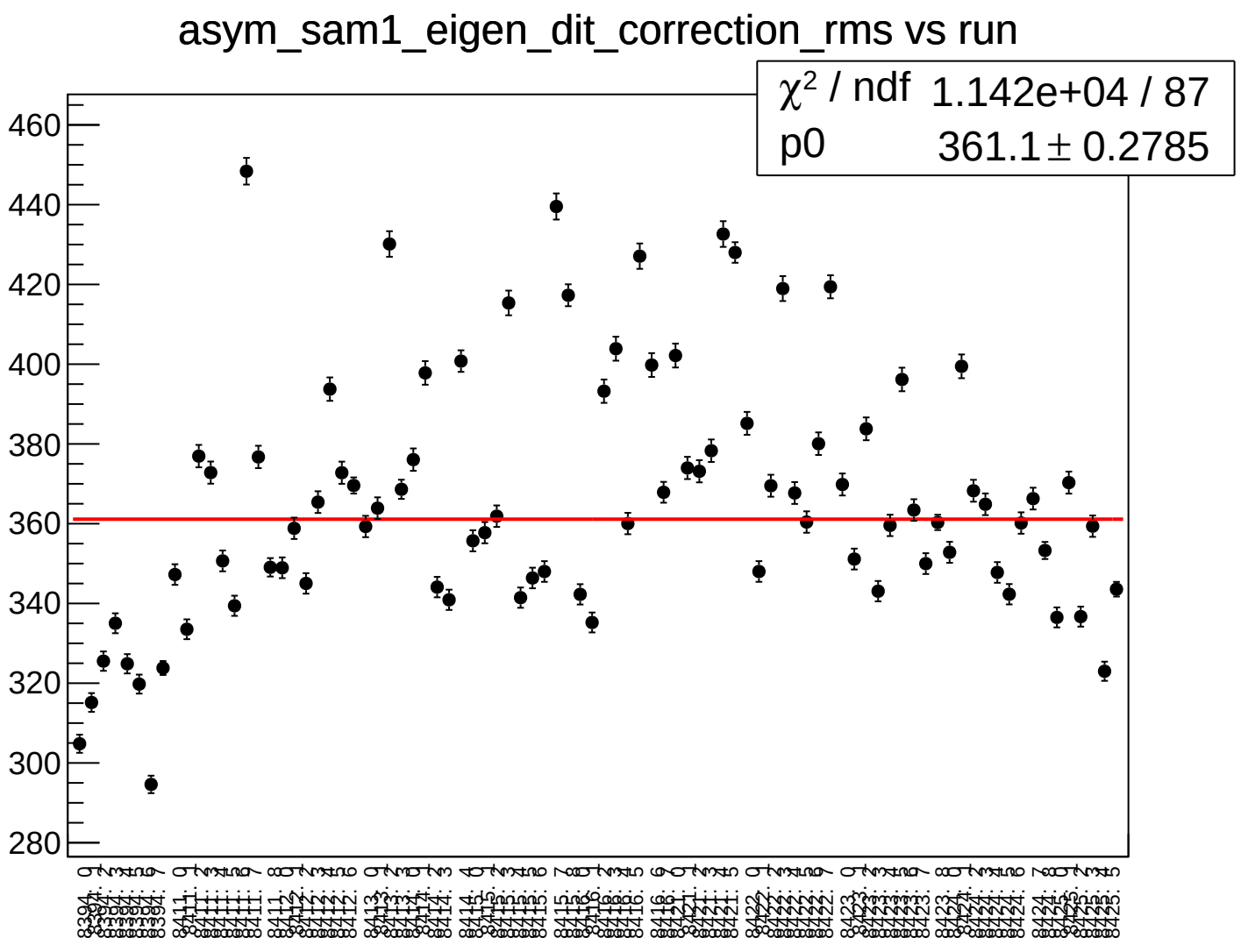

asym_sam1_dit_correction_rms vs run
χ² / ndf 1.142e+04 / 87
p0 361.1 ± 0.2785
460
440
420
400
380
360
340
320
300
280

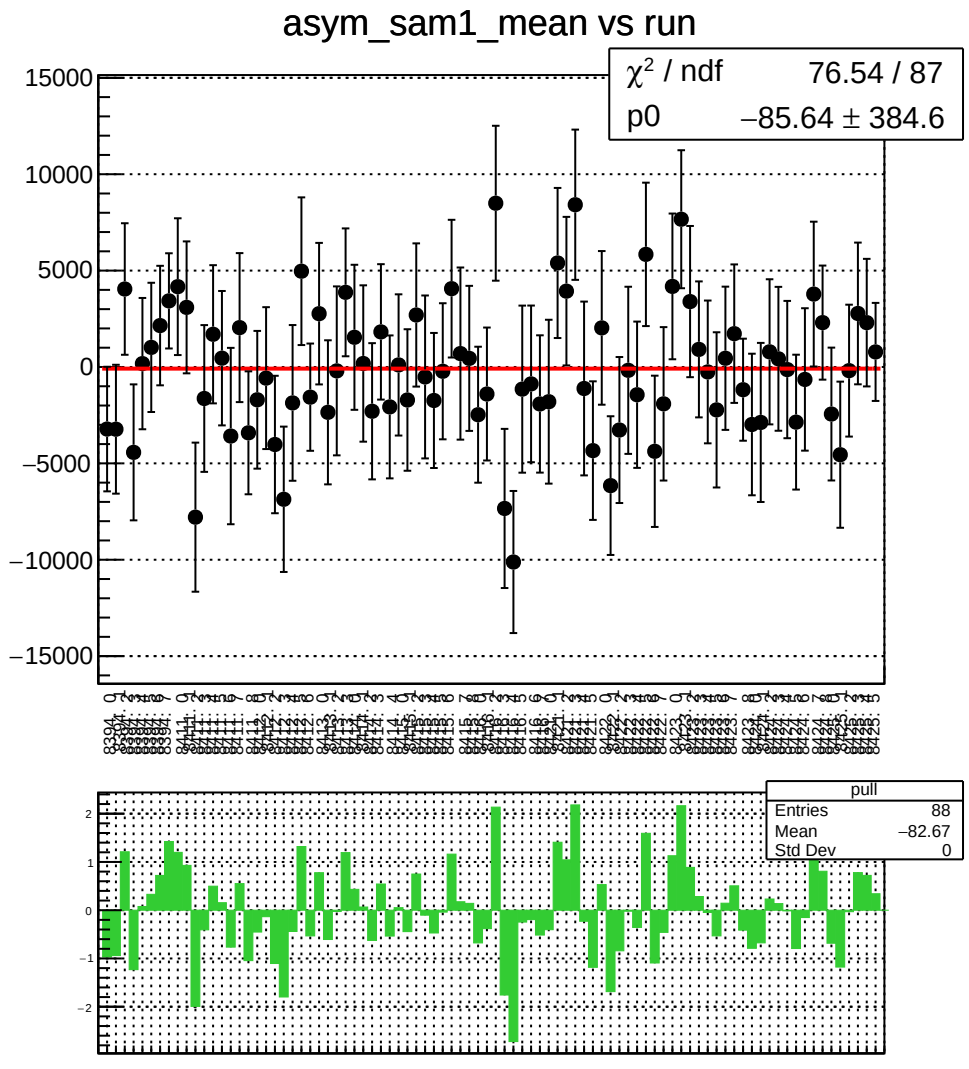

eigen_dit_asym_sam1_mean vs run
χ² / ndf 89.62 / 87
p0 118.8 ± 72.17
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 1.829e+04
Std Dev 0
3
2
1
0
−1
−2

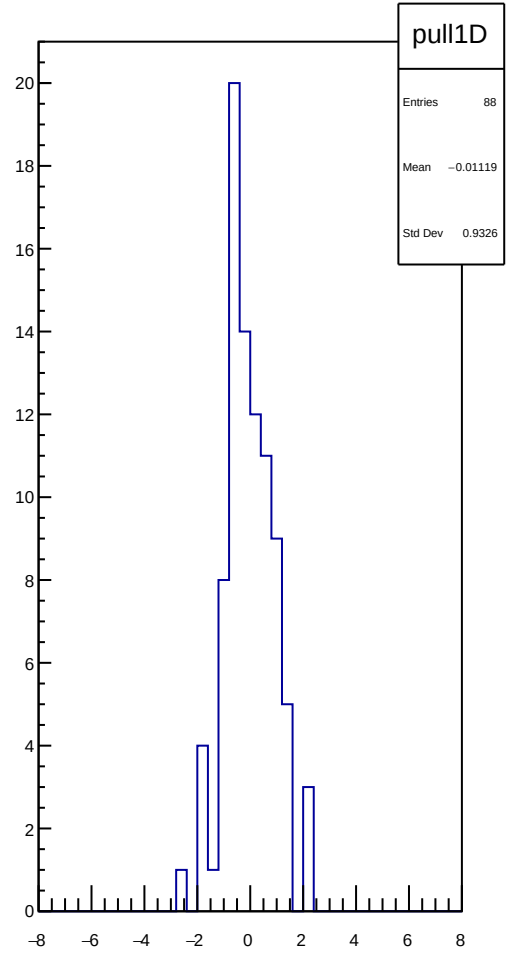

pull1D
Entries 88
Mean 5.664e−05
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

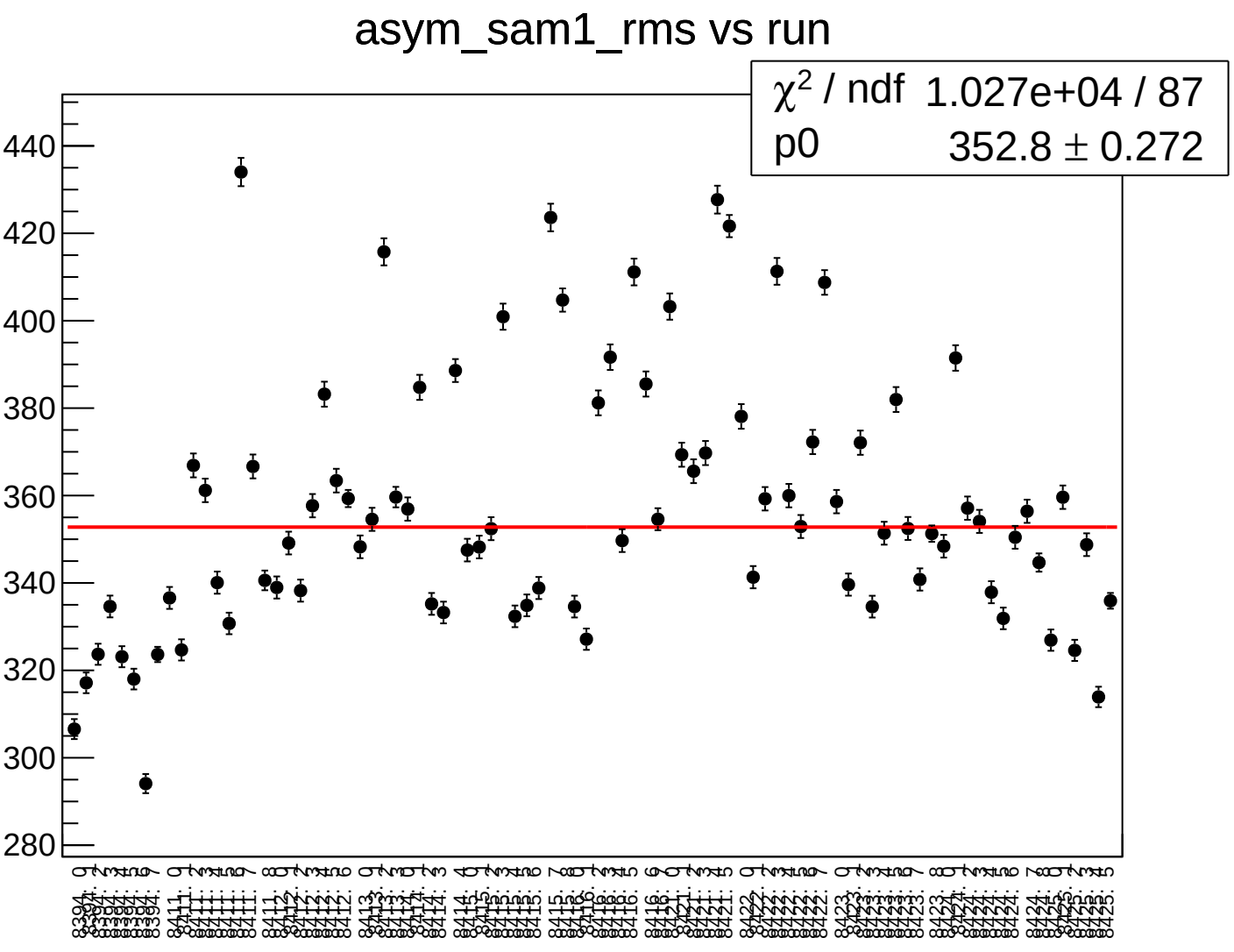

eigen_dit_asym_sam1_rms vs run
χ^2 / ndf 1037 / 87
p0 66.38 ± 0.05103
72
70
68
66
64
62

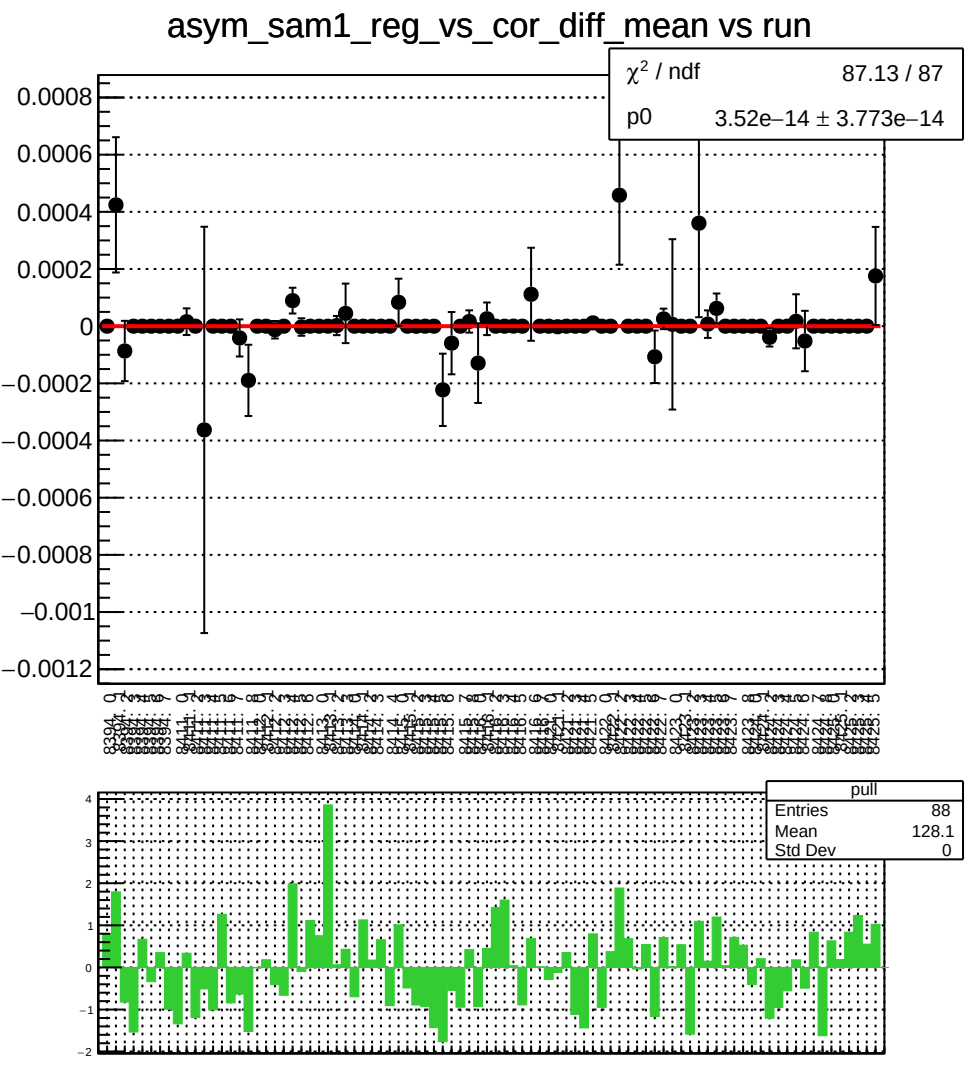

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 76.24 / 87
p0 199.4 ± 393.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −58.02
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.0117
Std Dev 0.9307
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

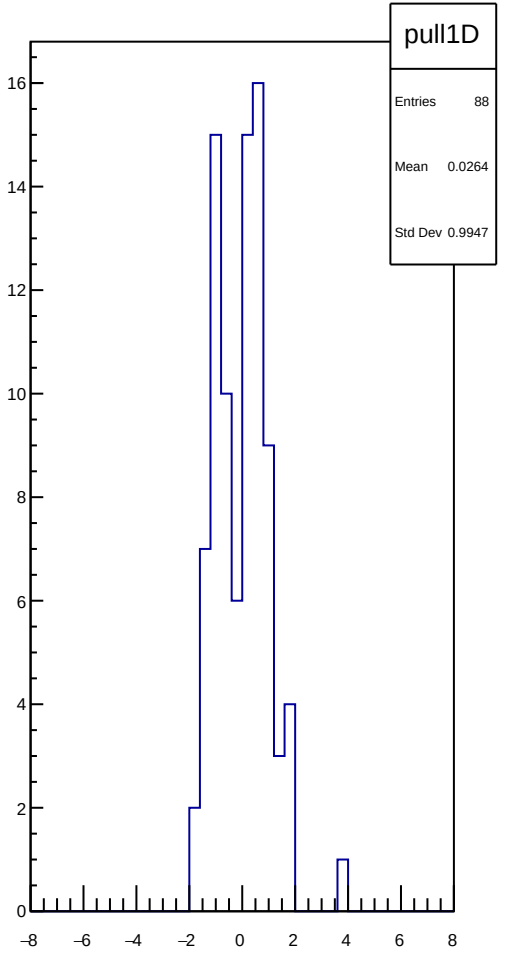

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 1.142e+04 / 87
p0 361.1 ± 0.2785
460
440
420
400
380
360
340
320
300
280

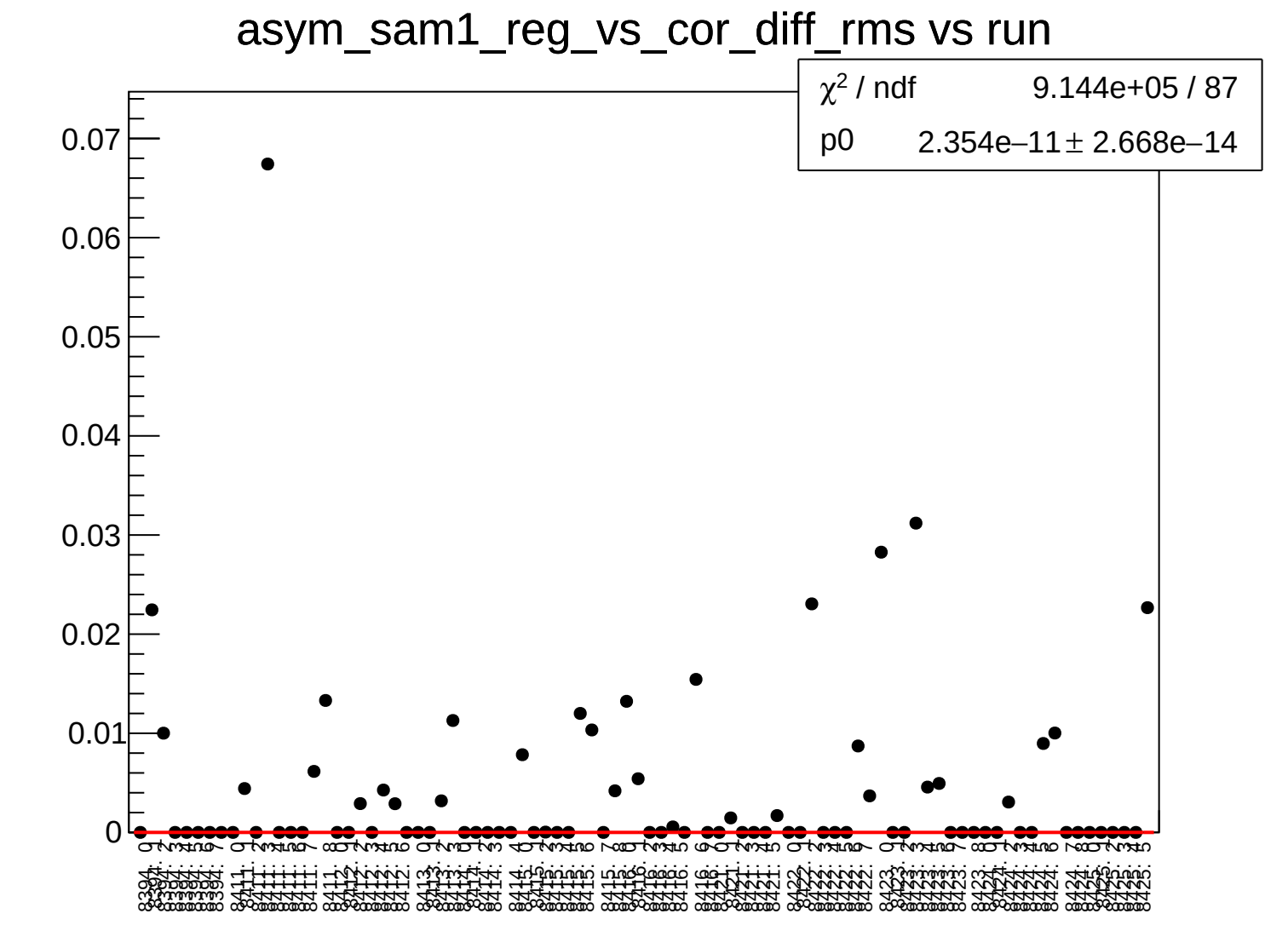

asym_sam1_mean vs run
χ² / ndf 76.54 / 87
p0 −85.64 ± 384.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −82.67
Std Dev 0
2
1
0
−1
−2

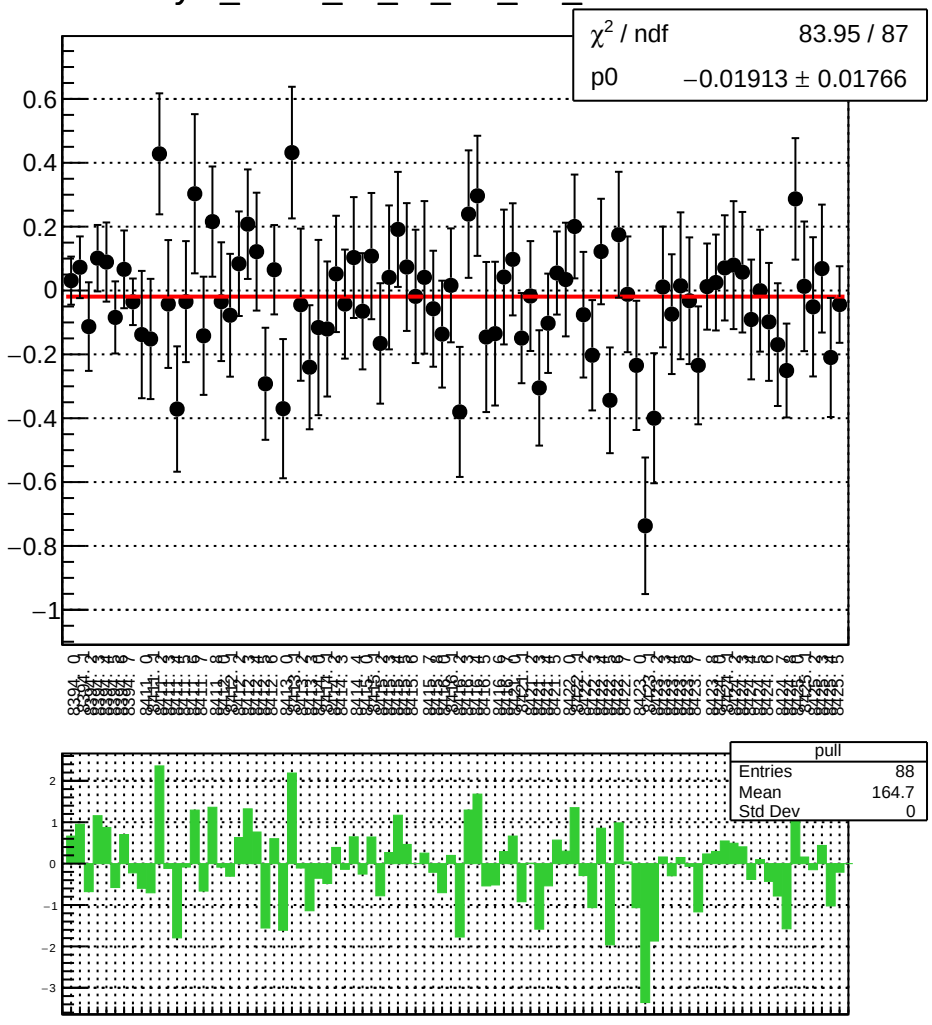

pull1D
Entries 88
Mean −0.01119
Std Dev 0.9326
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

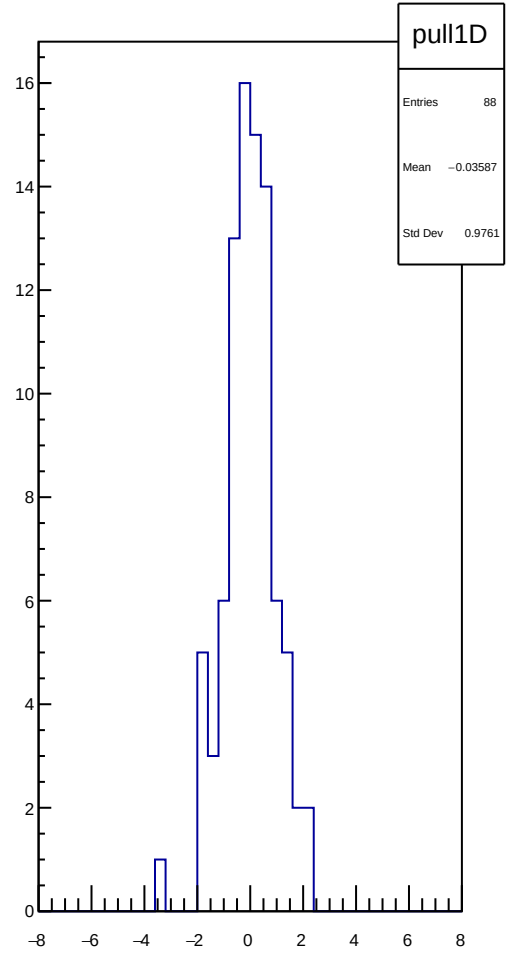

asym_sam1_rms vs run
χ^2 / ndf 1.027e+04 / 87
p0 352.8 ± 0.272
440
420
400
380
360
340
320
300
280

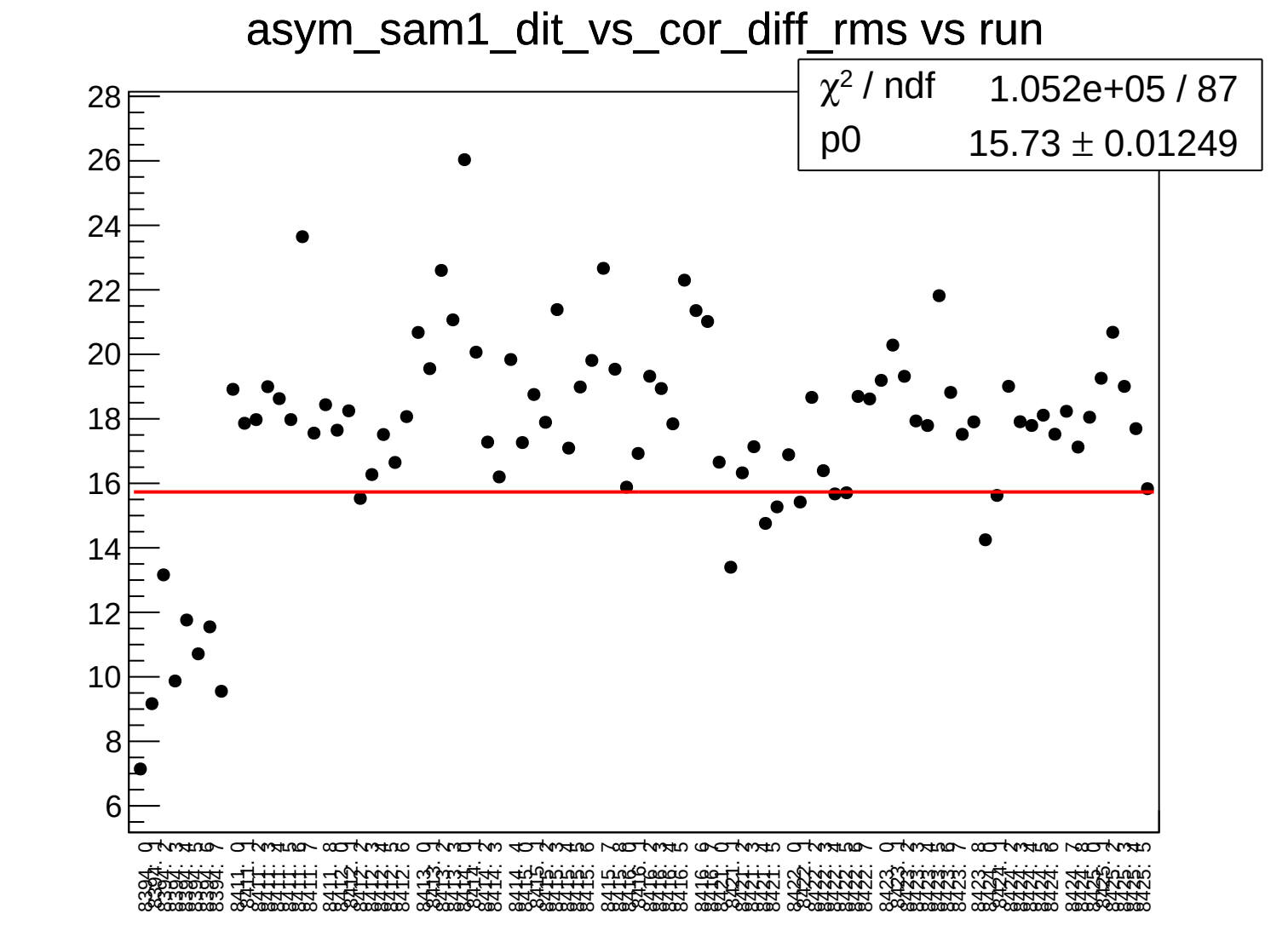

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 87.13 / 87
p0 3.52e−14 ± 3.773e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 88
Mean 128.1
Std Dev 0
4
3
2
1
0
−1
−2

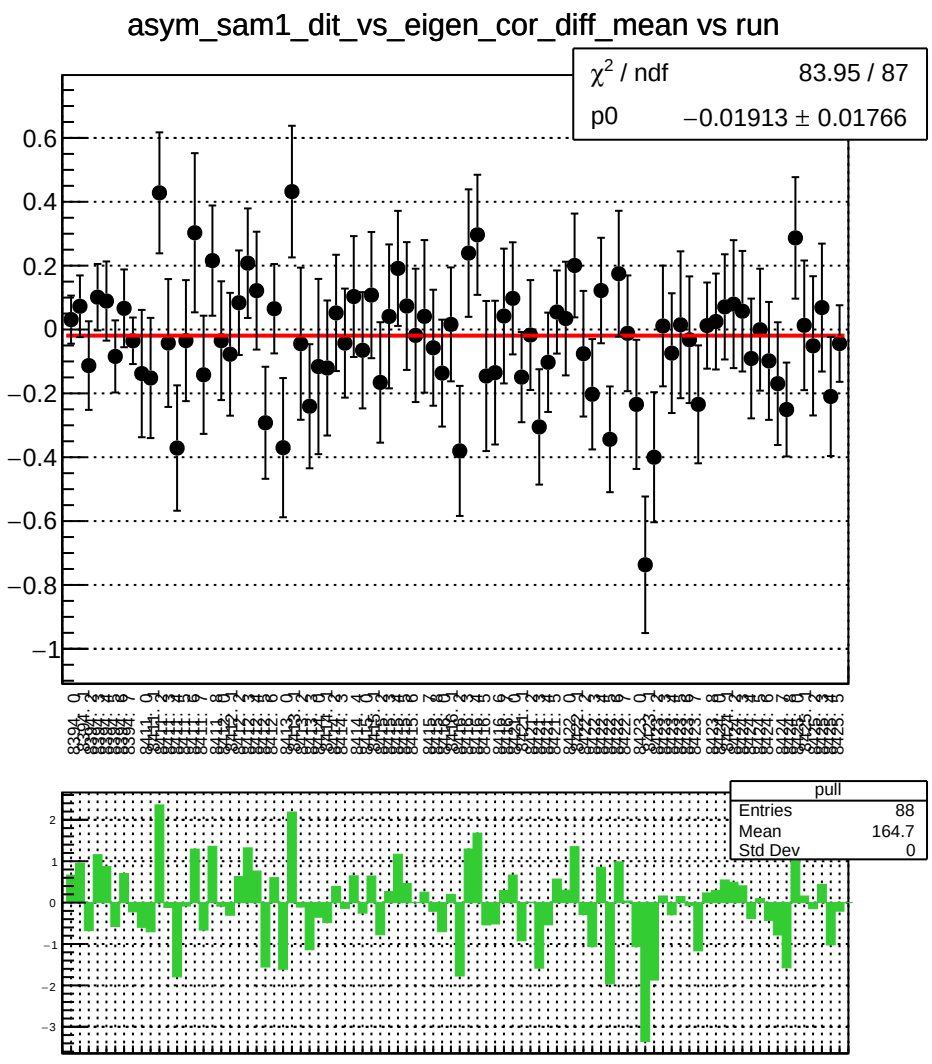

pull1D
Entries 88
Mean 0.0264
Std Dev 0.9947
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

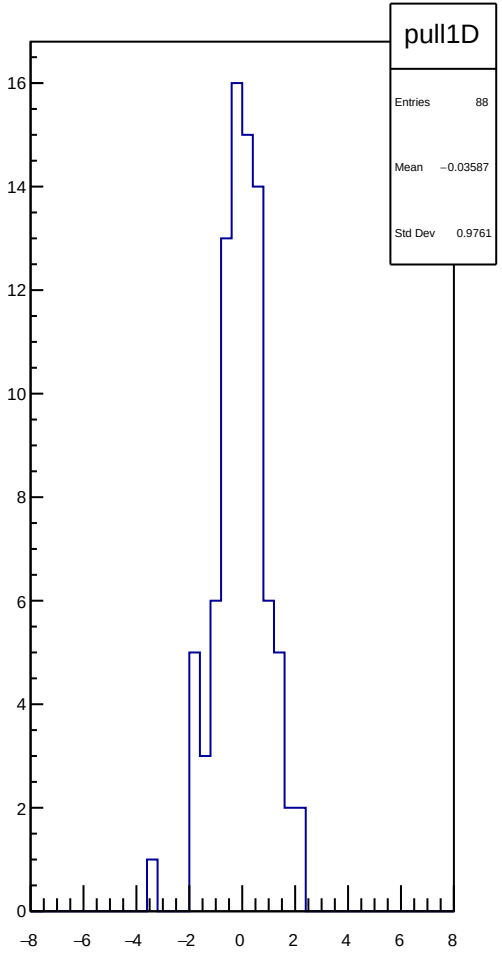

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 9.144e+05 / 87
p0 2.354e−11 ± 2.668e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

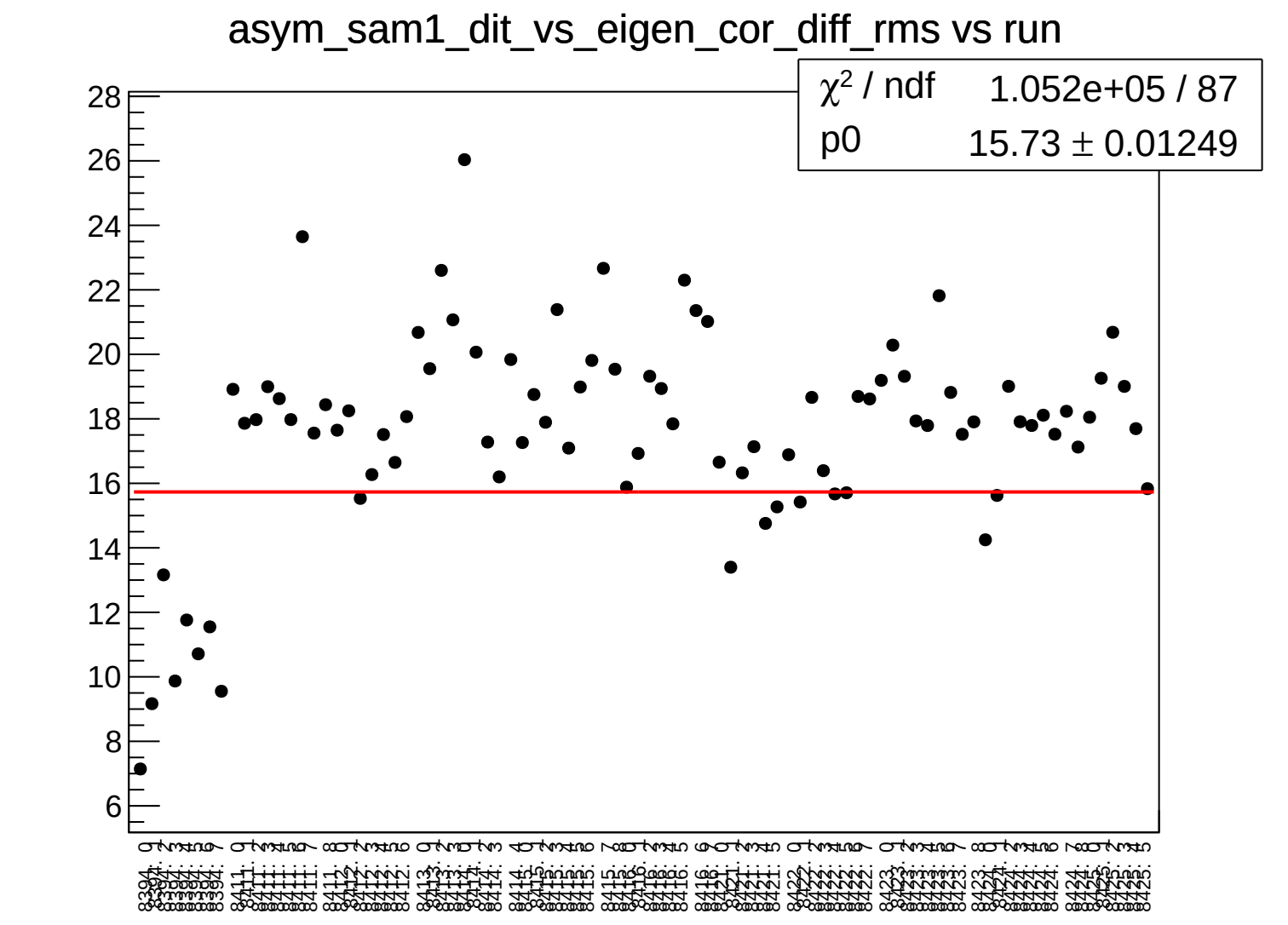

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 83.95 / 87
p0 −0.01913 ± 0.01766
pull
Entries 88
Mean 164.7
Std Dev 0

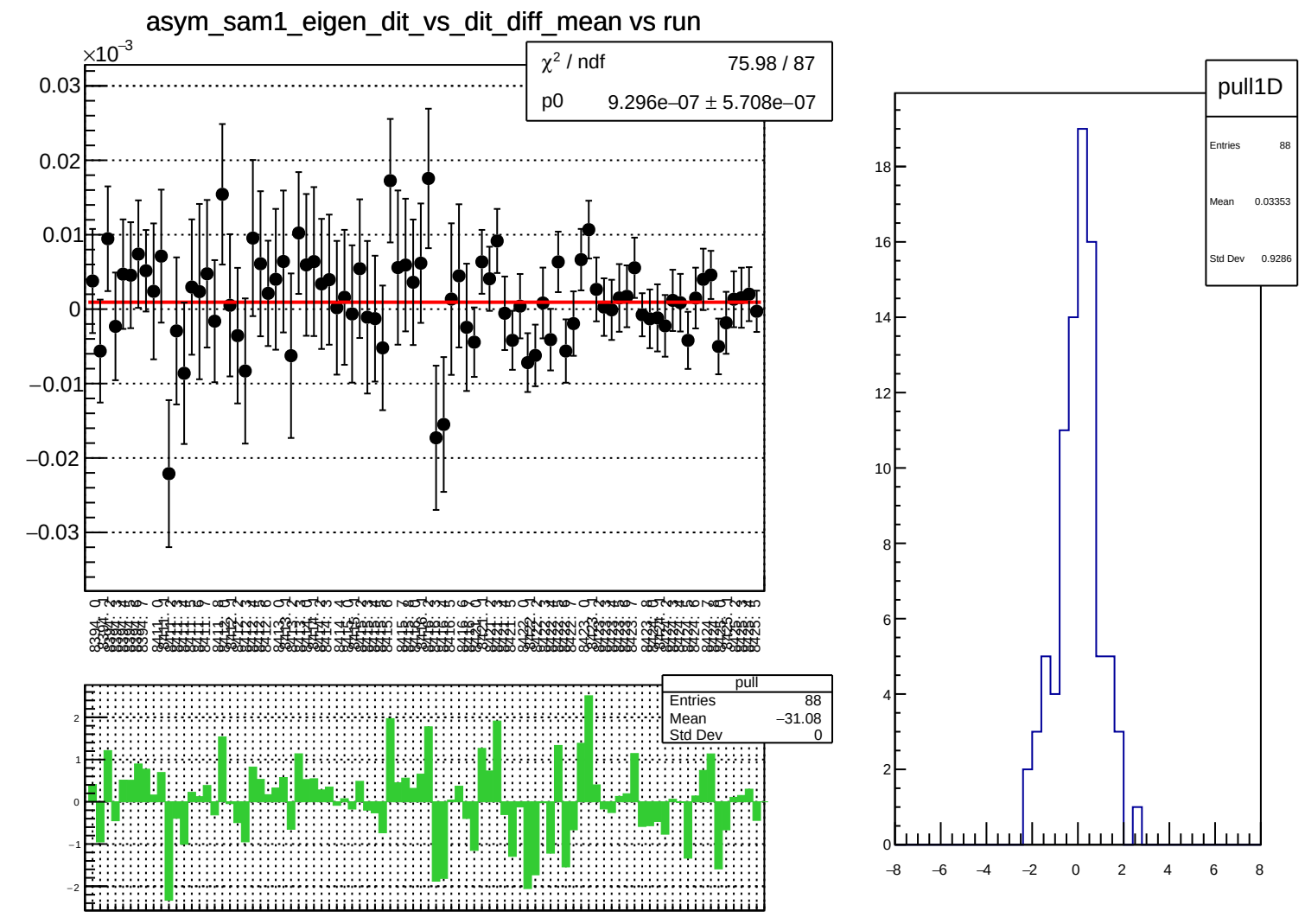

pull1D
Entries 88
Mean −0.03587
Std Dev 0.9761

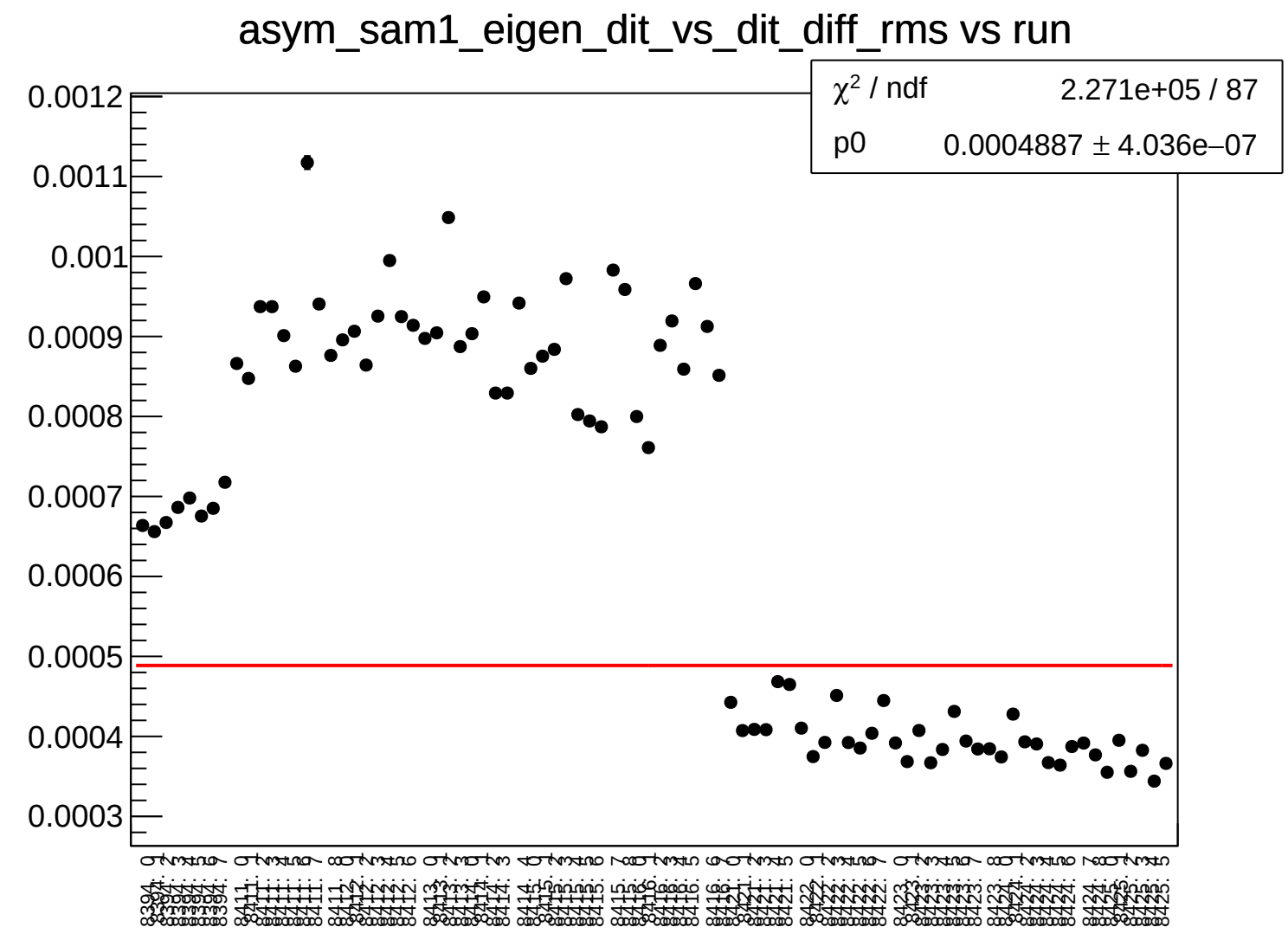

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 1.052e+05 / 87
p0 15.73 ± 0.01249
28
26
24
22
20
18
16
14
12
10
8
6

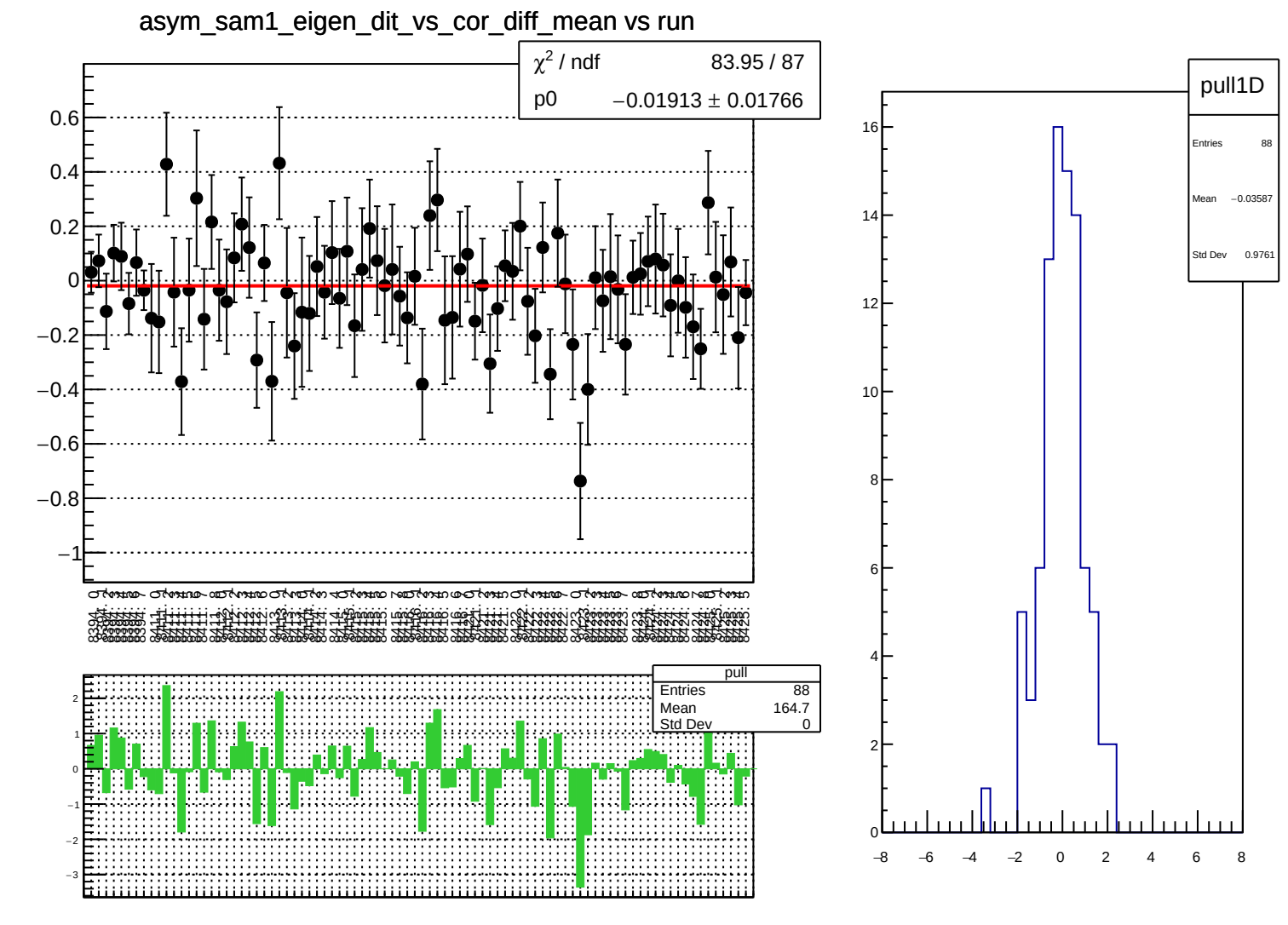

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.95 / 87
p0 −0.01913 ± 0.01766
pull
Entries 88
Mean 164.7
Std Dev 0

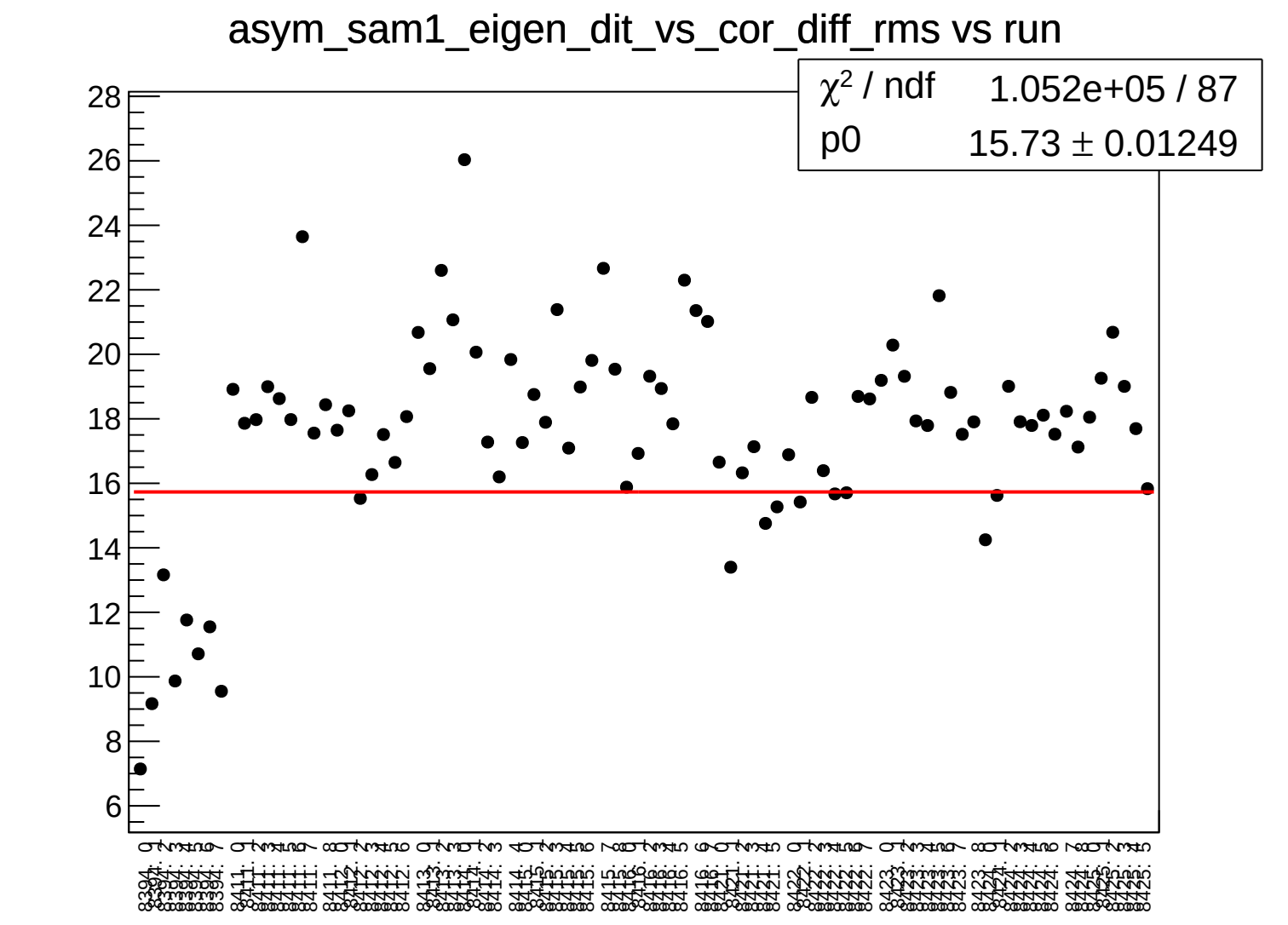

pull1D
Entries 88
Mean −0.03587
Std Dev 0.9761

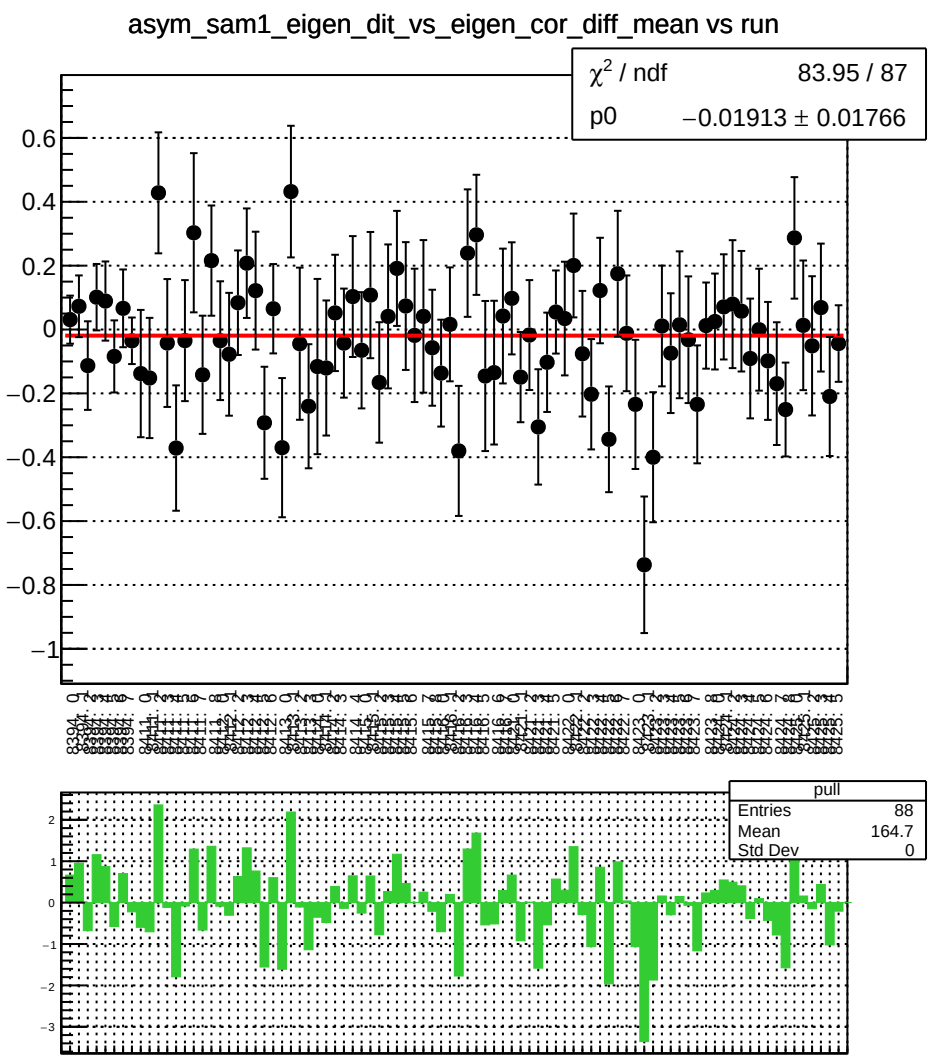

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.052e+05 / 87
p0 15.73 ± 0.01249
28
26
24
22
20
18
16
14
12
10
8
6

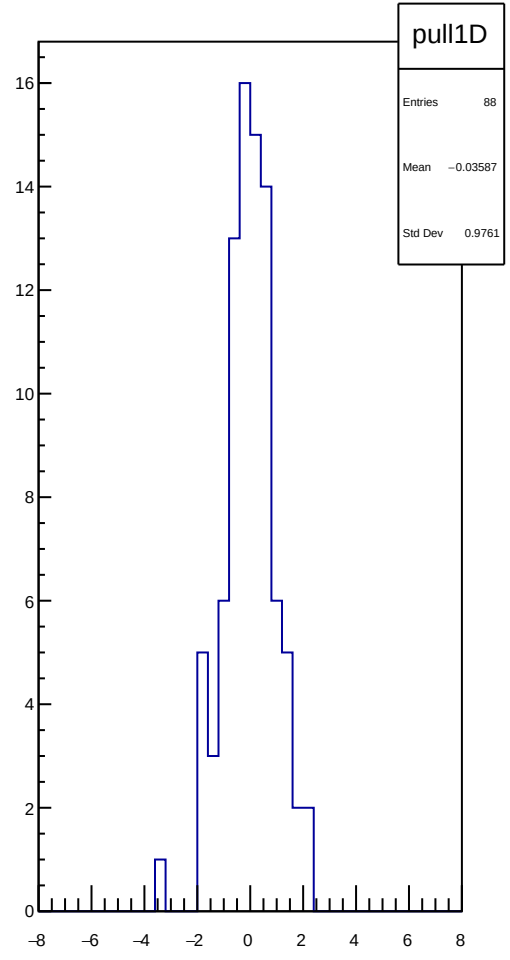

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.98 / 87
p0 9.296e−07 ± 5.708e−07
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 88
Mean −31.08
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.03353
Std Dev 0.9286
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

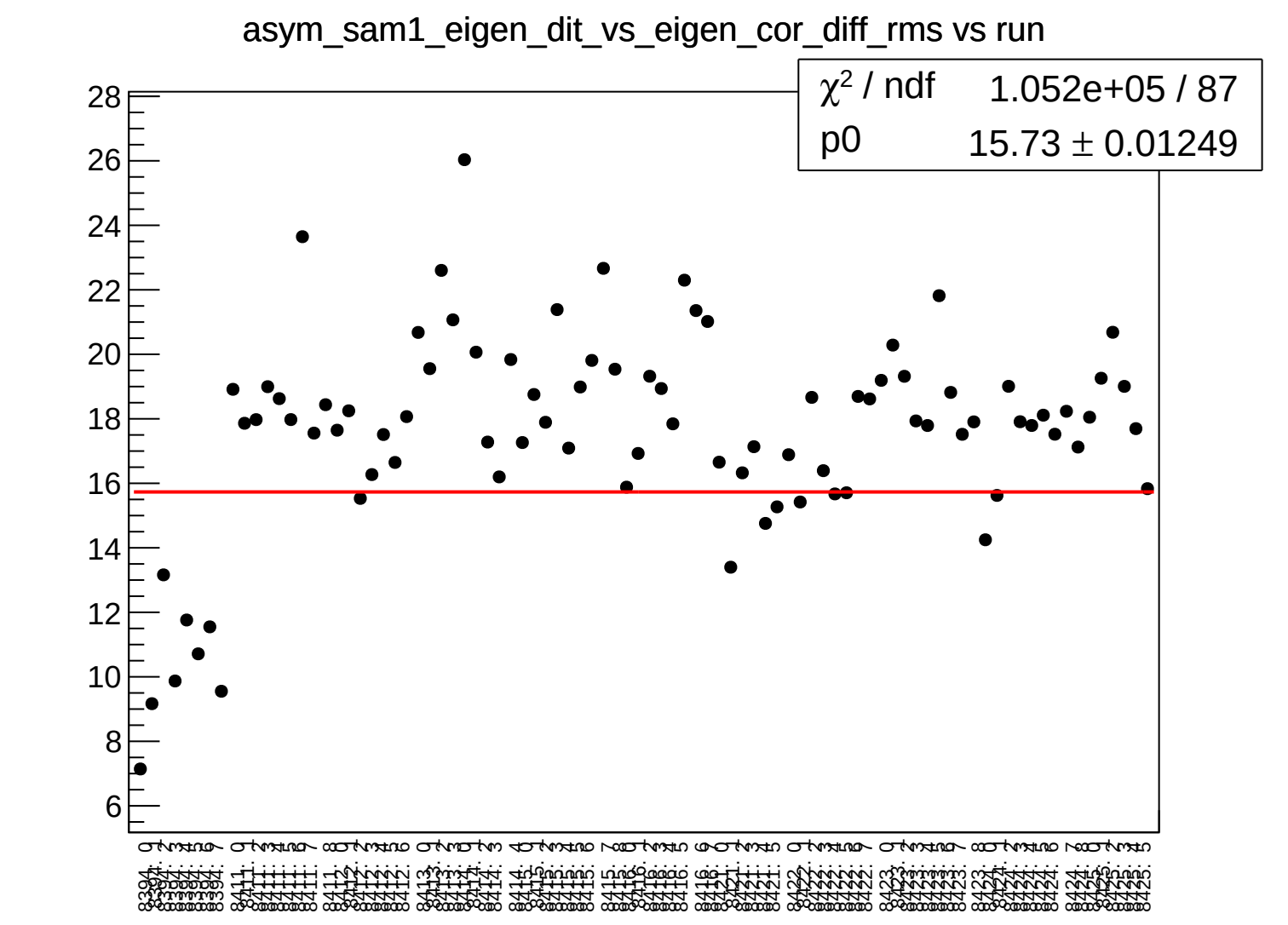

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.271e+05 / 87
p0 0.0004887 ± 4.036e−07
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003

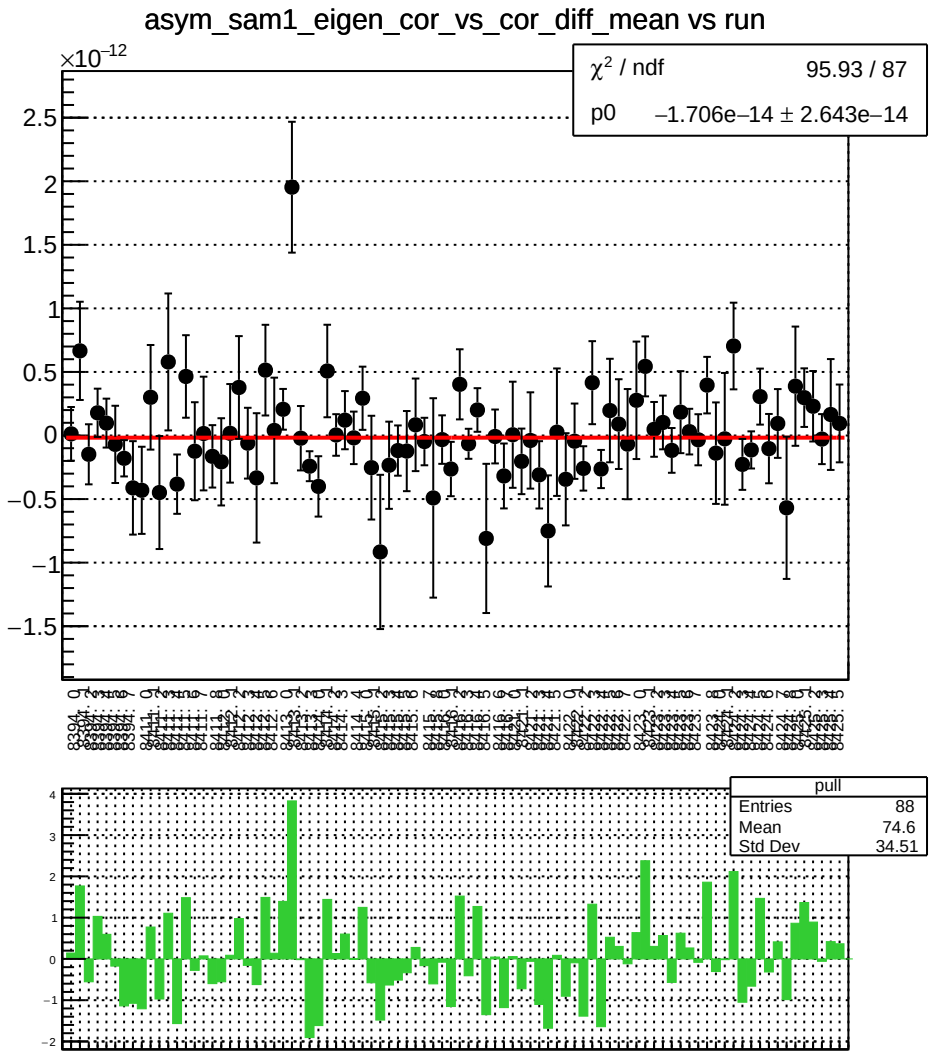

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.95 / 87
p0 −0.01913 ± 0.01766
pull
Entries 88
Mean 164.7
Std Dev 0
pull1D
Entries 88
Mean −0.03587
Std Dev 0.9761

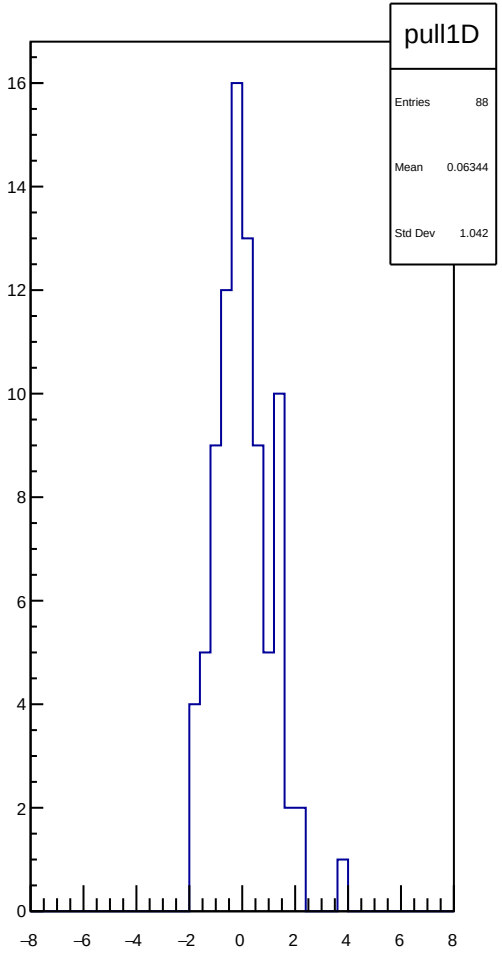

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.052e+05 / 87
p0 15.73 ± 0.01249
28
26
24
22
20
18
16
14
12
10
8
6

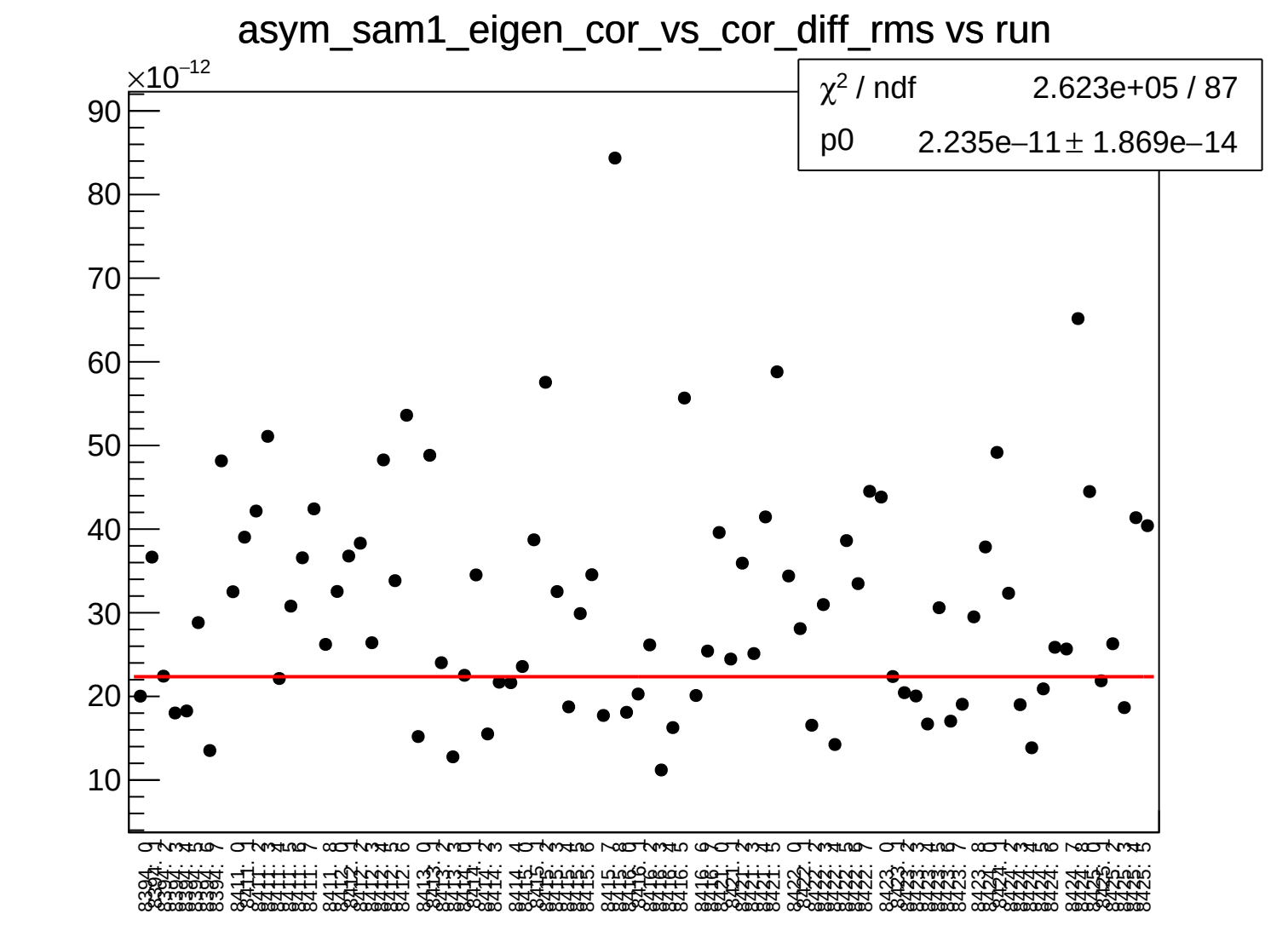

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.95 / 87
p0 −0.01913 ± 0.01766
pull
Entries 88
Mean 164.7
Std Dev 0

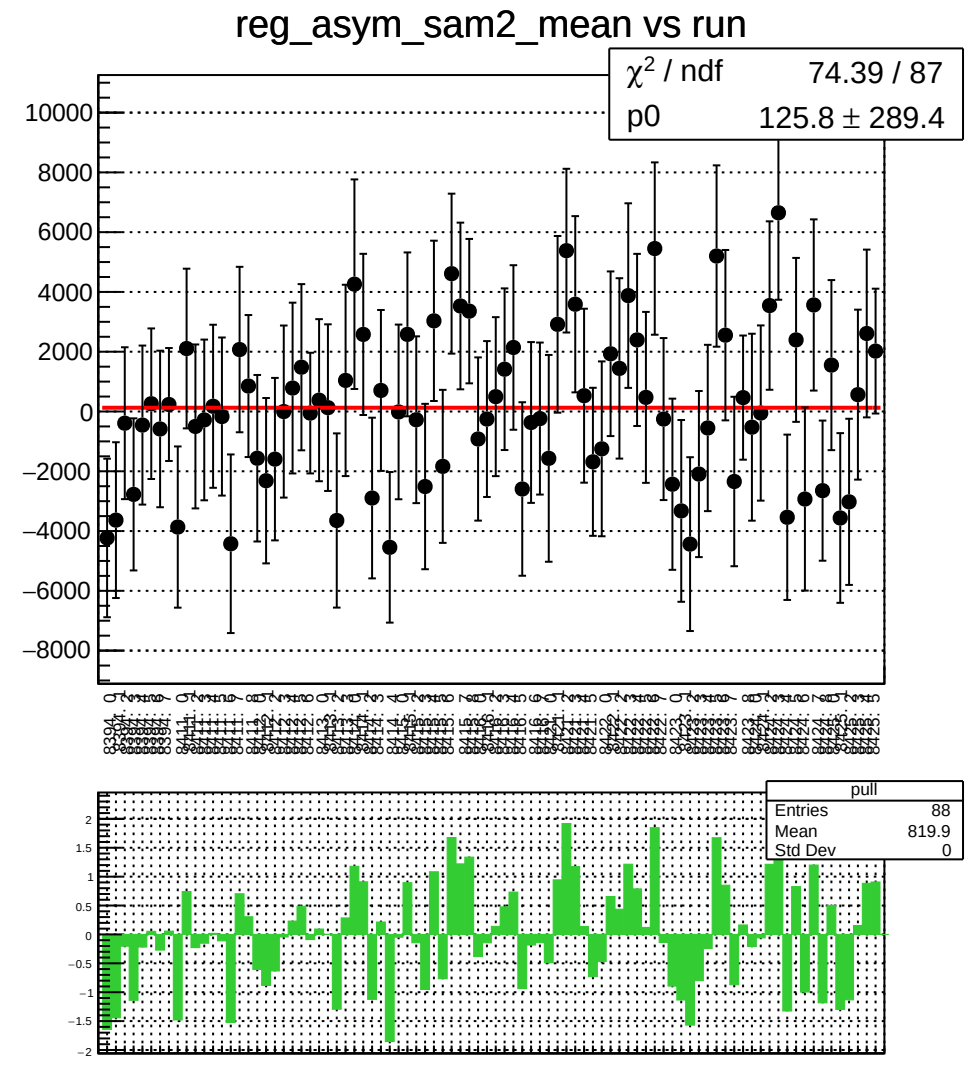

pull1D
Entries 88
Mean −0.03587
Std Dev 0.9761

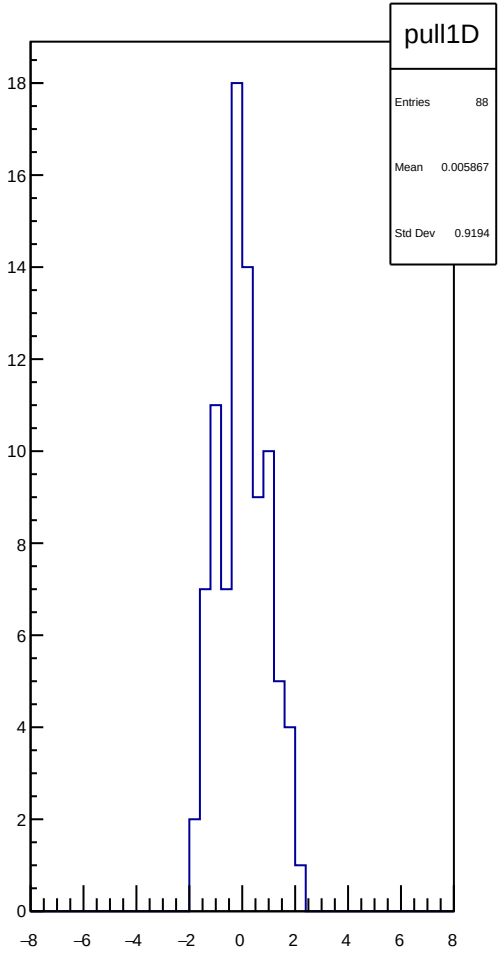

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.052e+05 / 87
p0 15.73 ± 0.01249
28
26
24
22
20
18
16
14
12
10
8
6

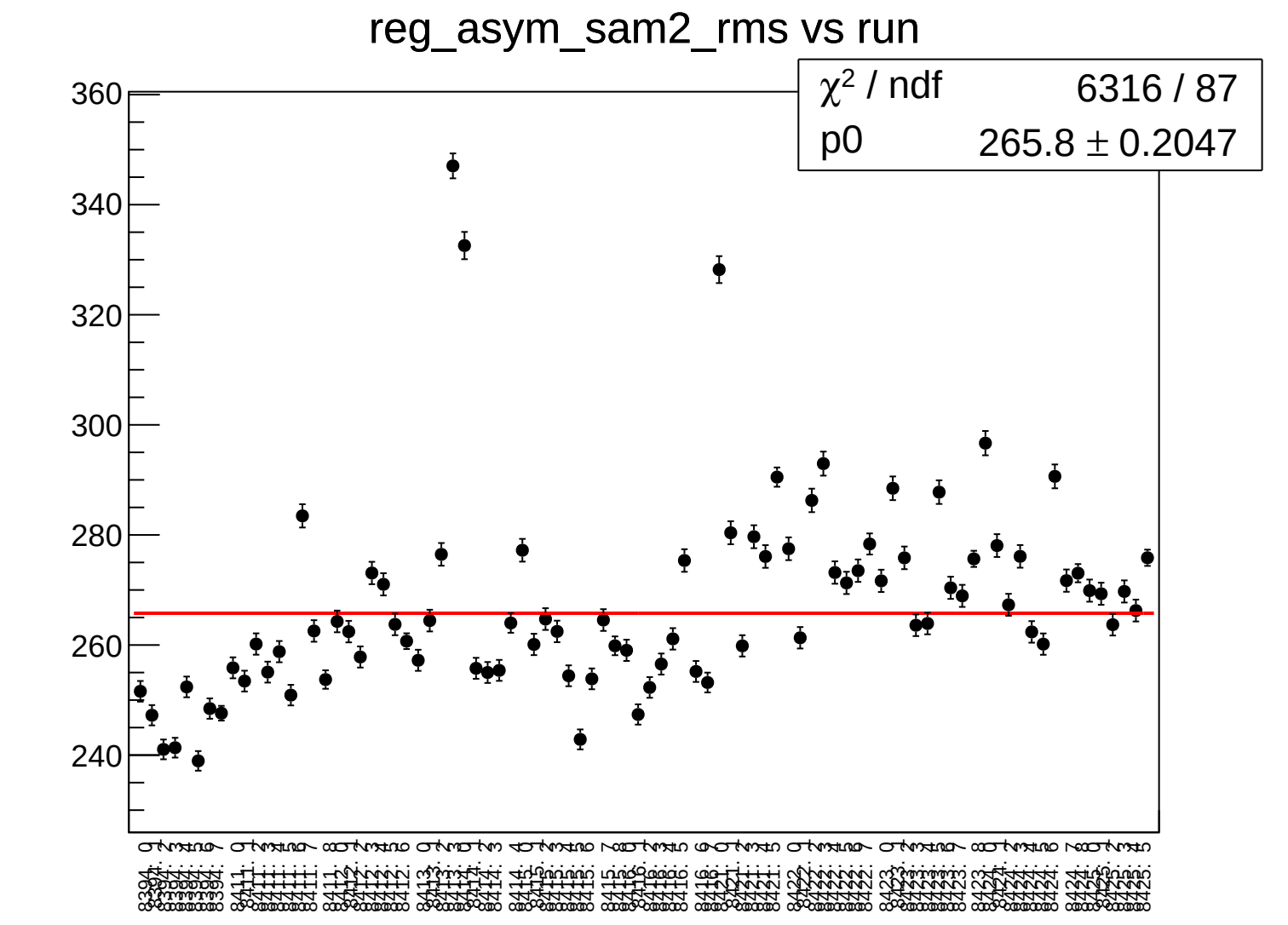

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.93 / 87
p0 −1.706e−14 ± 2.643e−14
pull
Entries 88
Mean 74.6
Std Dev 34.51

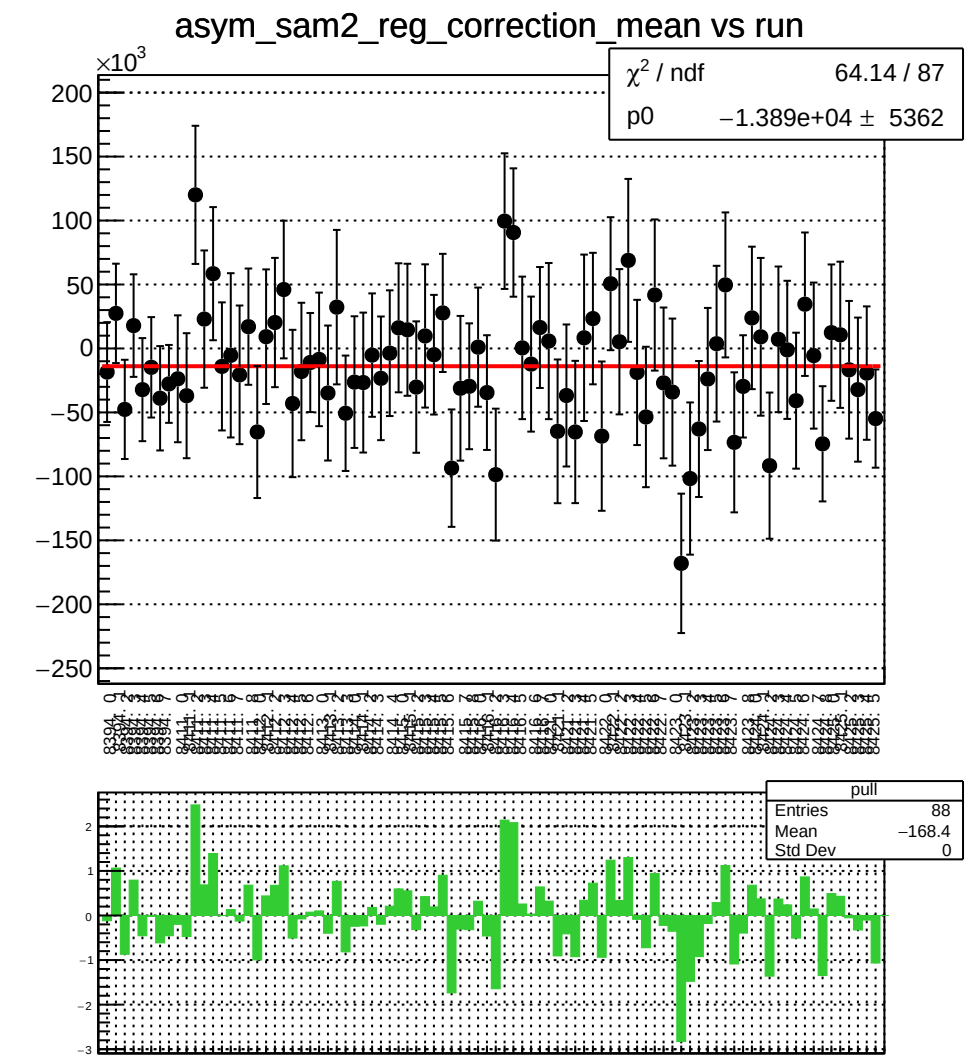

pull1D
Entries 88
Mean 0.06344
Std Dev 1.042

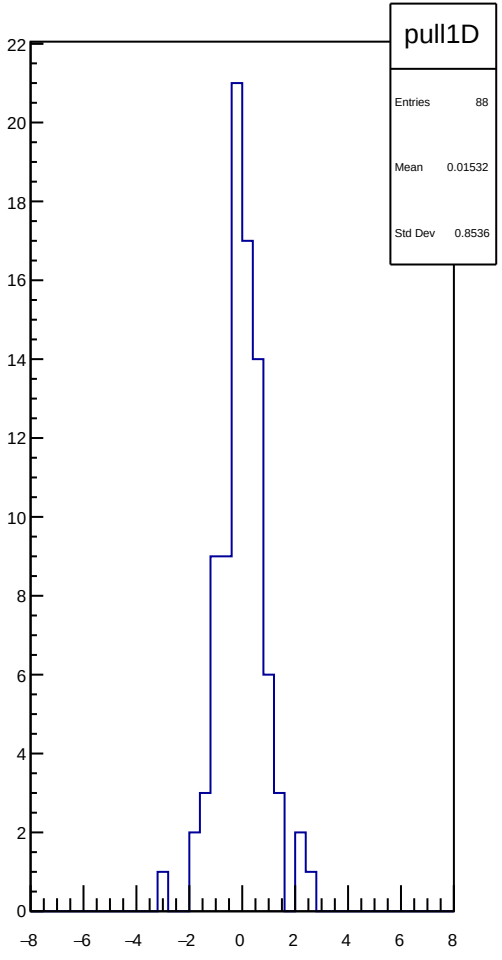

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.623e+05 / 87
p0 2.235e−11 ± 1.869e−14
90
80
70
60
50
40
30
20
10

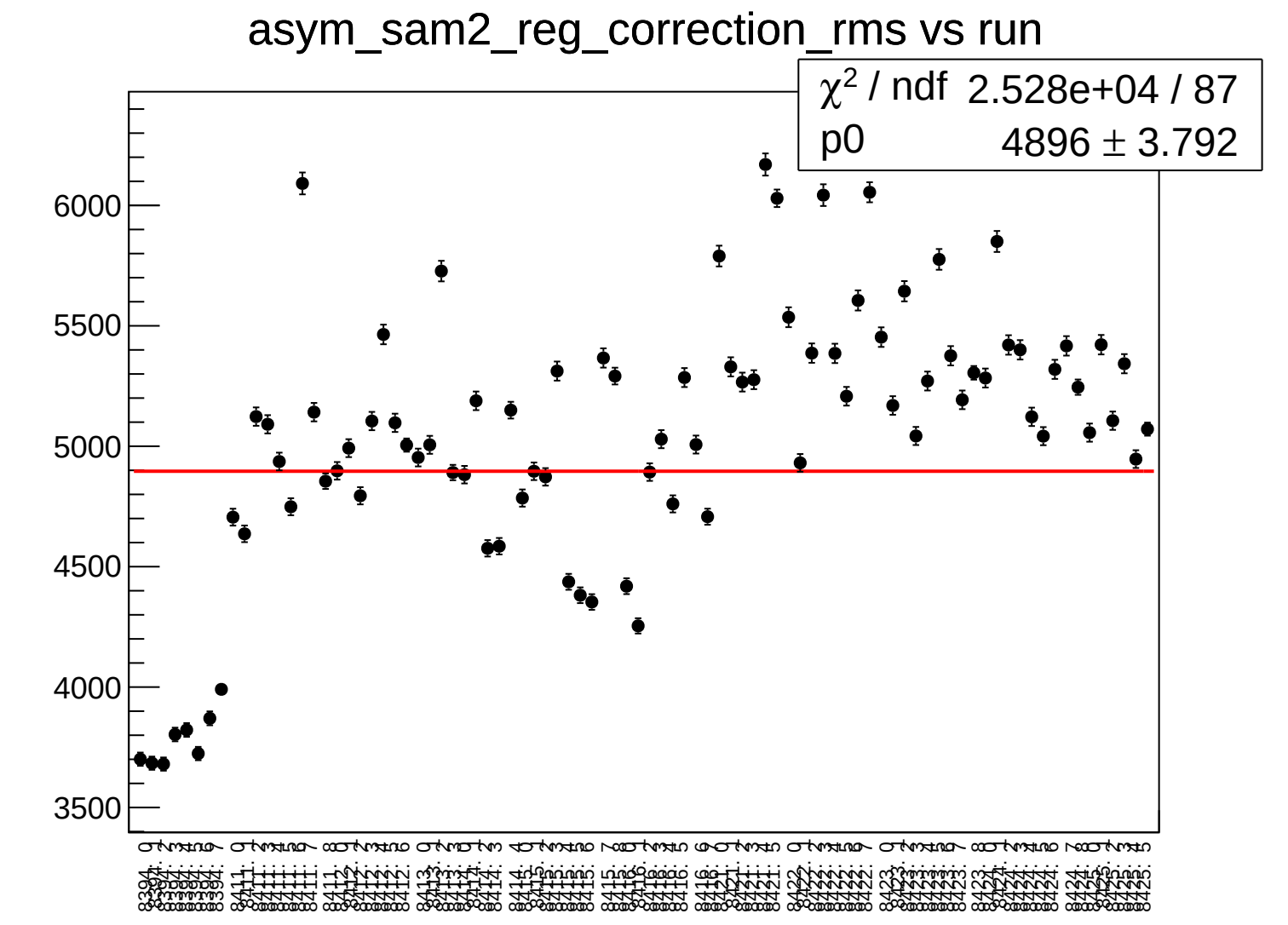

reg_asym_sam2_mean vs run
χ^2 / ndf 74.39 / 87
p0 125.8 ± 289.4
pull
Entries 88
Mean 819.9
Std Dev 0

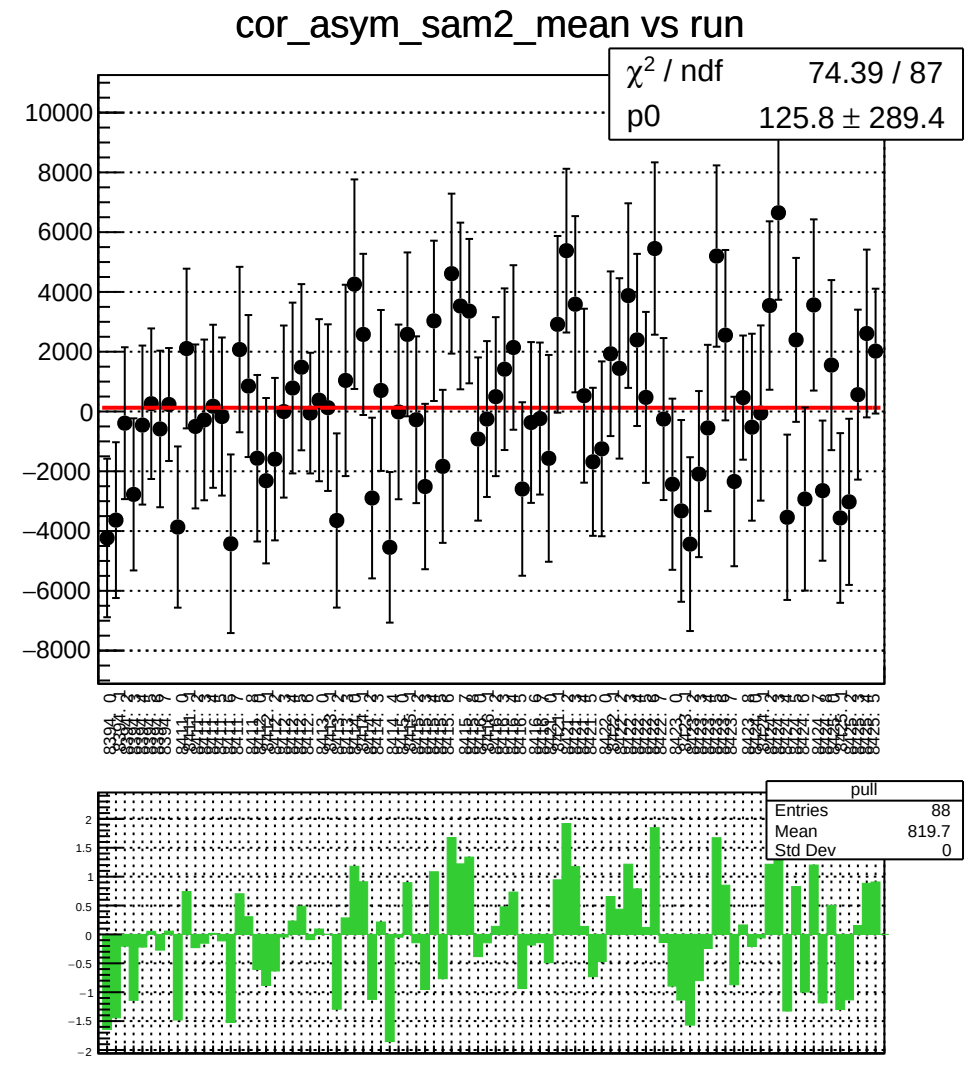

pull1D
Entries 88
Mean 0.005867
Std Dev 0.9194

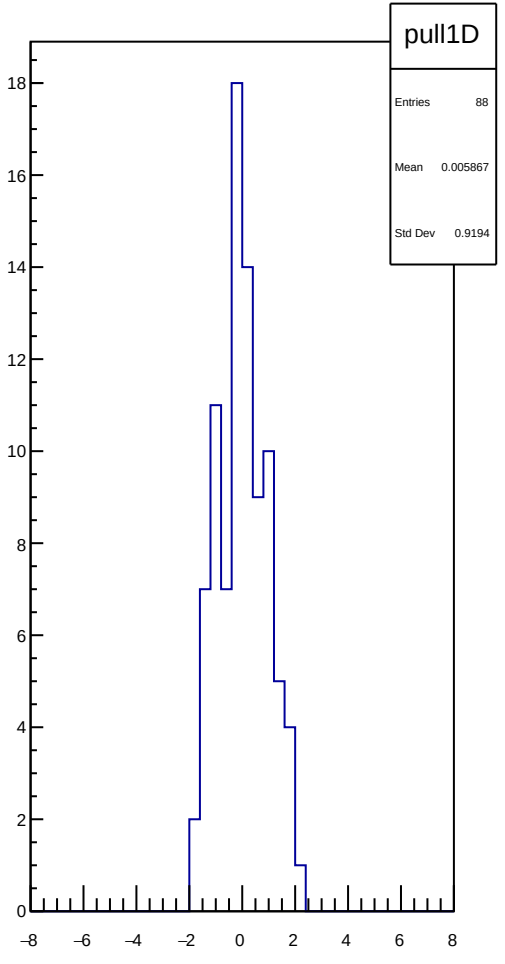

reg_asym_sam2_rms vs run
χ² / ndf 6316 / 87
p0 265.8 ± 0.2047
360
340
320
300
280
260
240

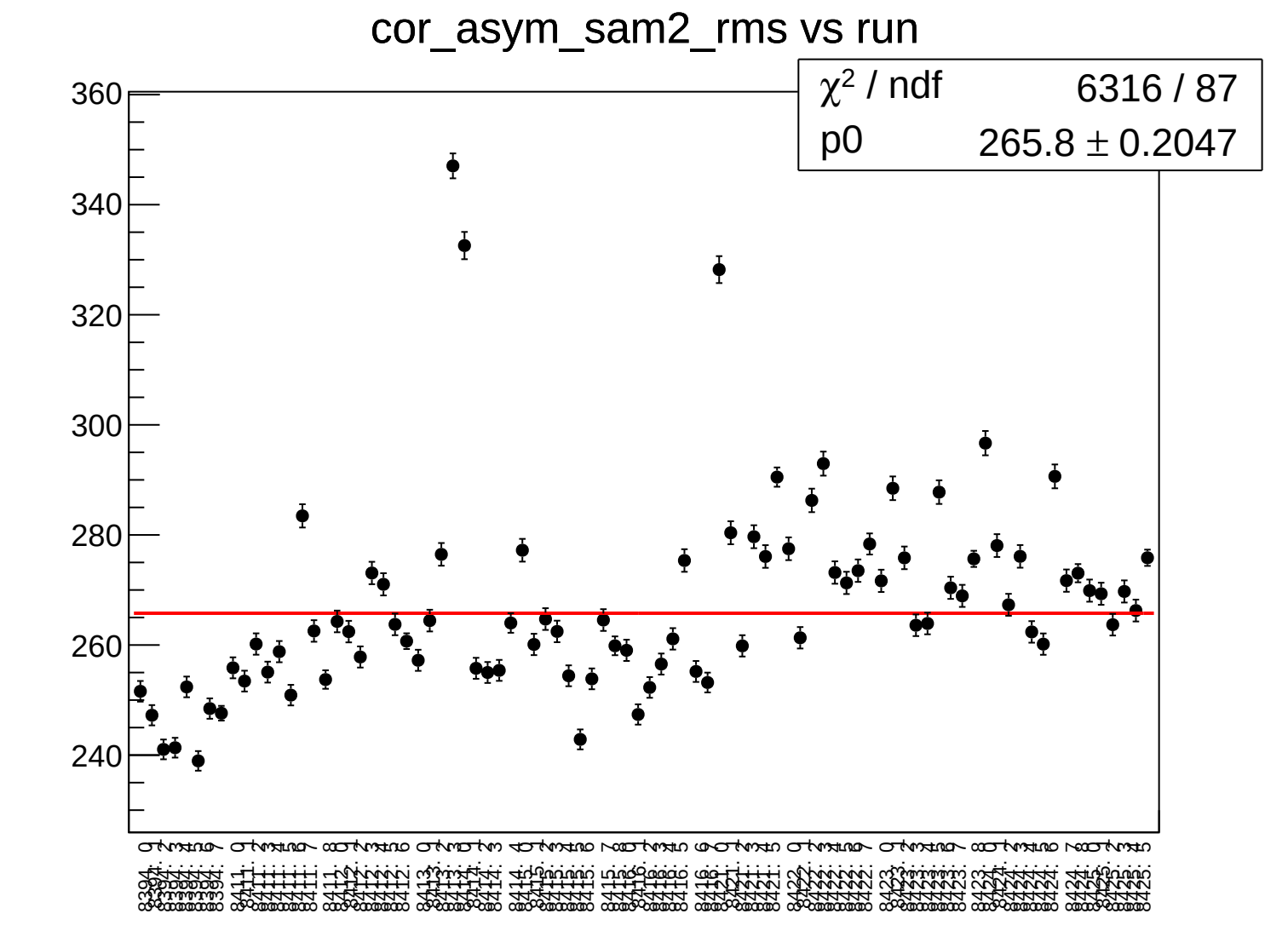

asym_sam2_reg_correction_mean vs run
×10^3
χ² / ndf 64.14 / 87
p0 −1.389e+04 ± 5362
pull
Entries 88
Mean −168.4
Std Dev 0

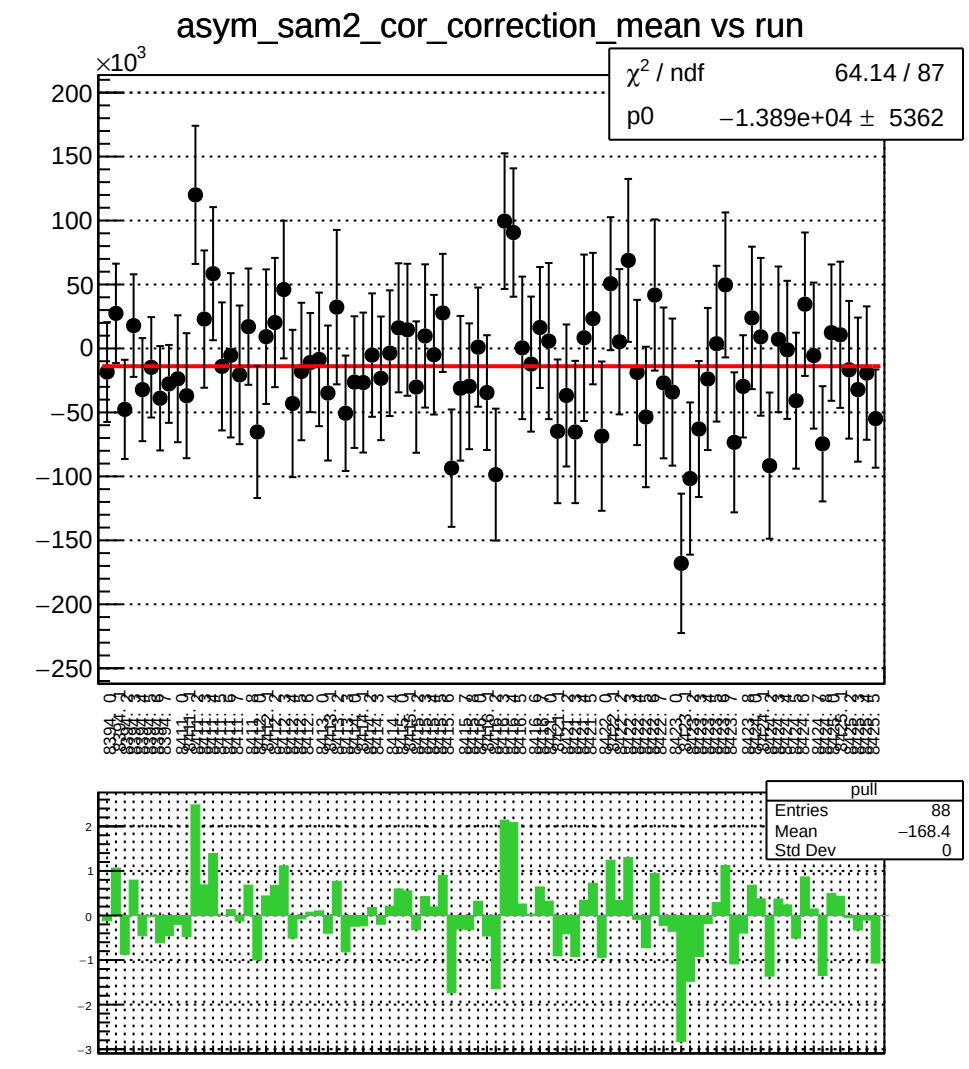

pull1D
Entries 88
Mean 0.01532
Std Dev 0.8536

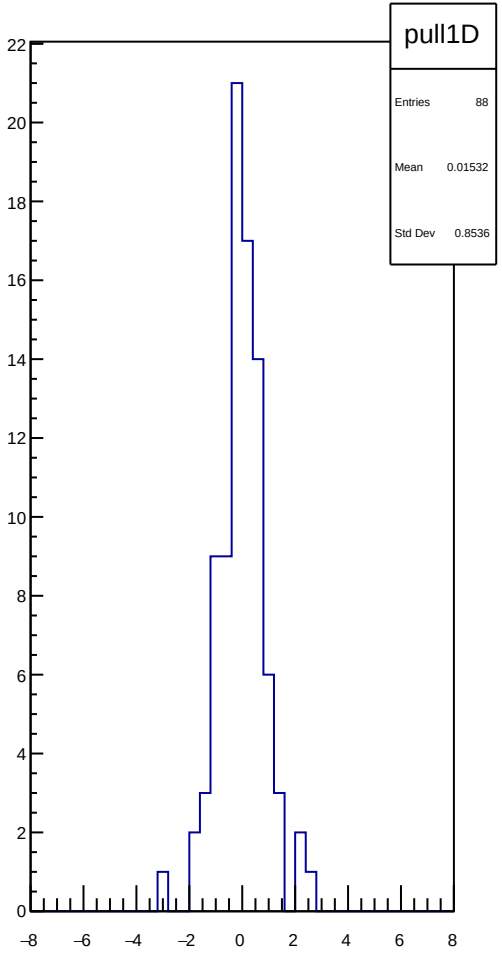

asym_sam2_reg_correction_rms vs run
χ² / ndf 2.528e+04 / 87
p0 4896 ± 3.792
6000
5500
5000
4500
4000
3500

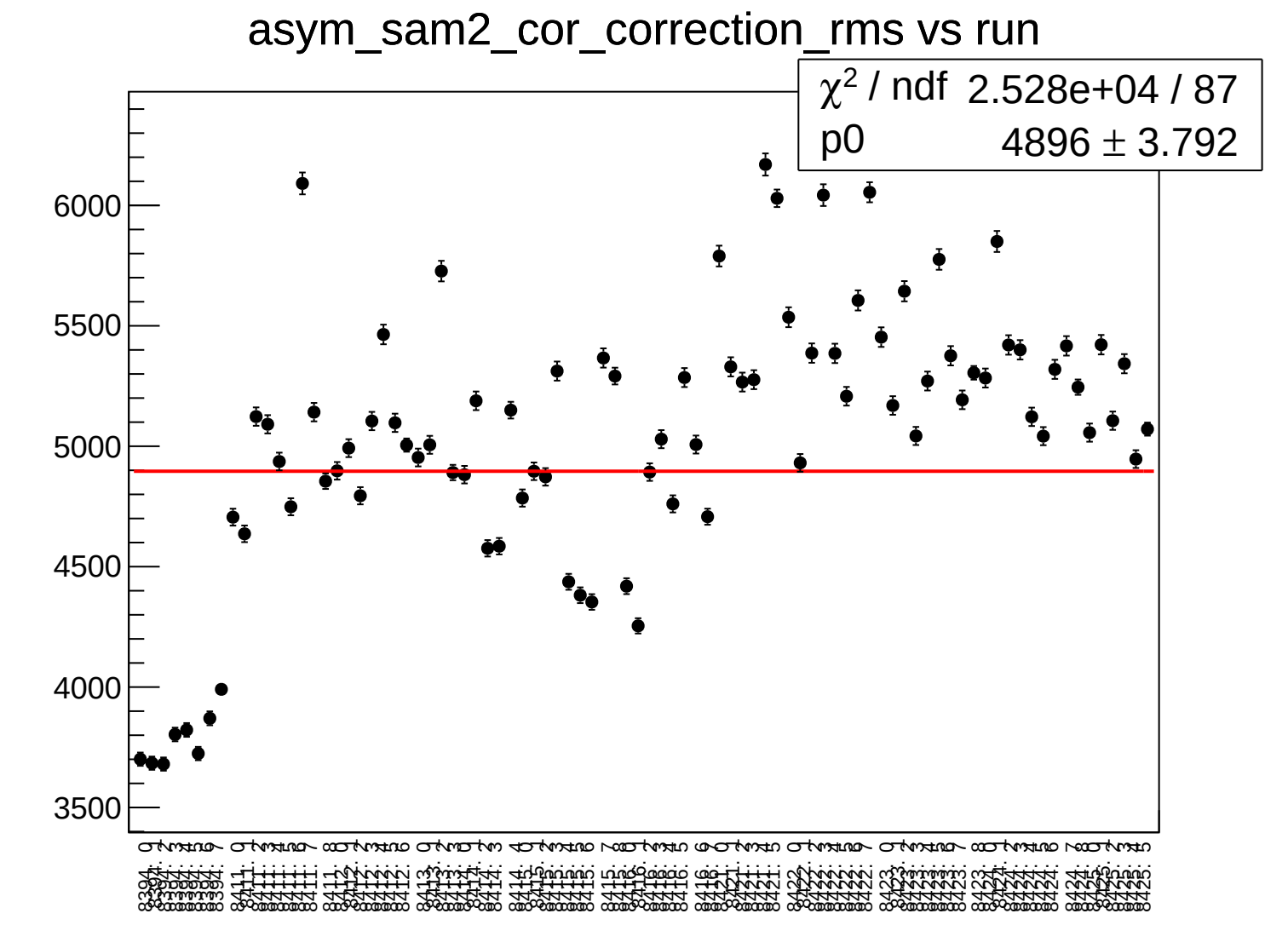

cor_asym_sam2_mean vs run
χ² / ndf 74.39 / 87
p0 125.8 ± 289.4
pull
Entries 88
Mean 819.7
Std Dev 0

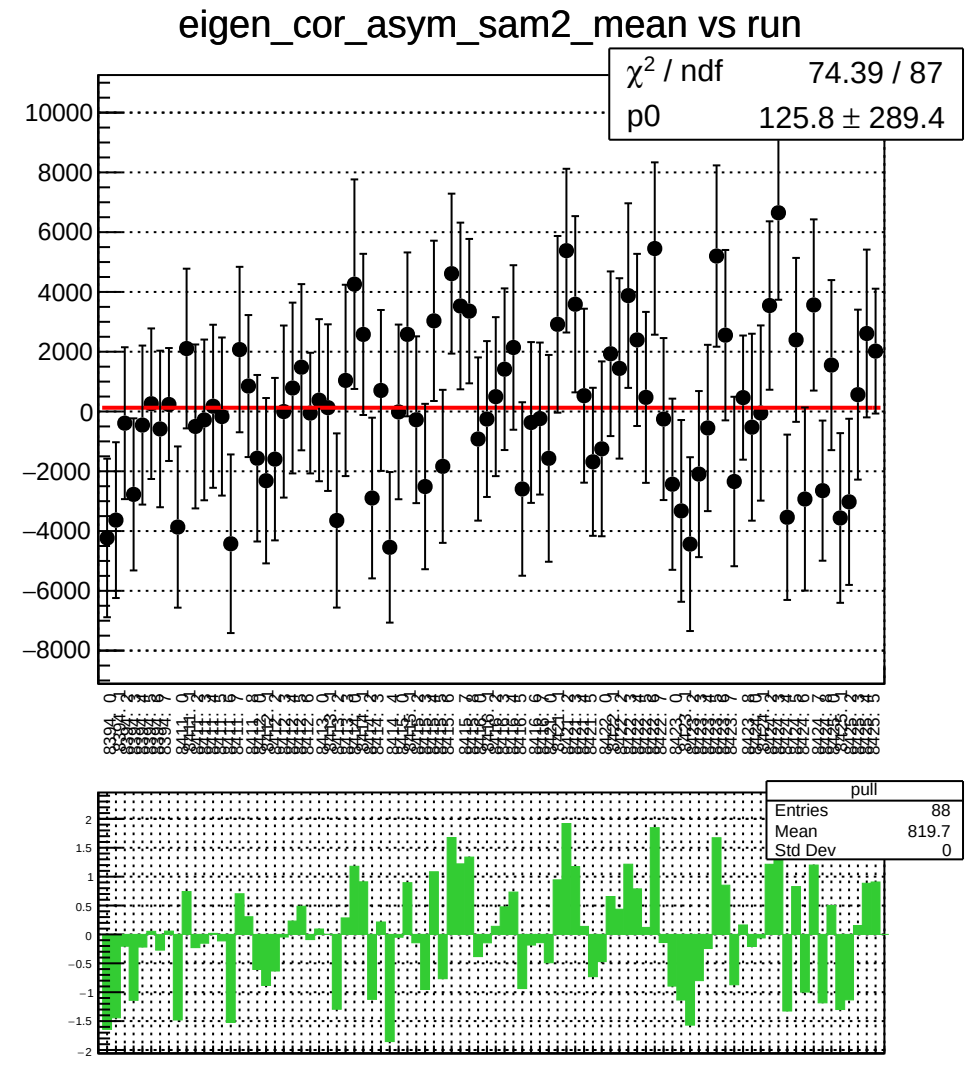

pull1D
Entries 88
Mean 0.005867
Std Dev 0.9194

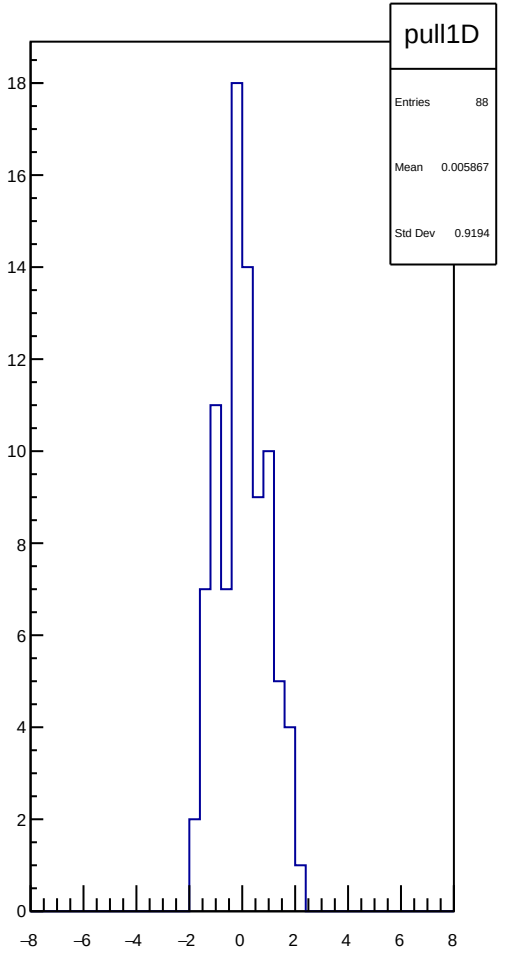

cor_asym_sam2_rms vs run
χ² / ndf 6316 / 87
p0 265.8 ± 0.2047
360
340
320
300
280
260
240

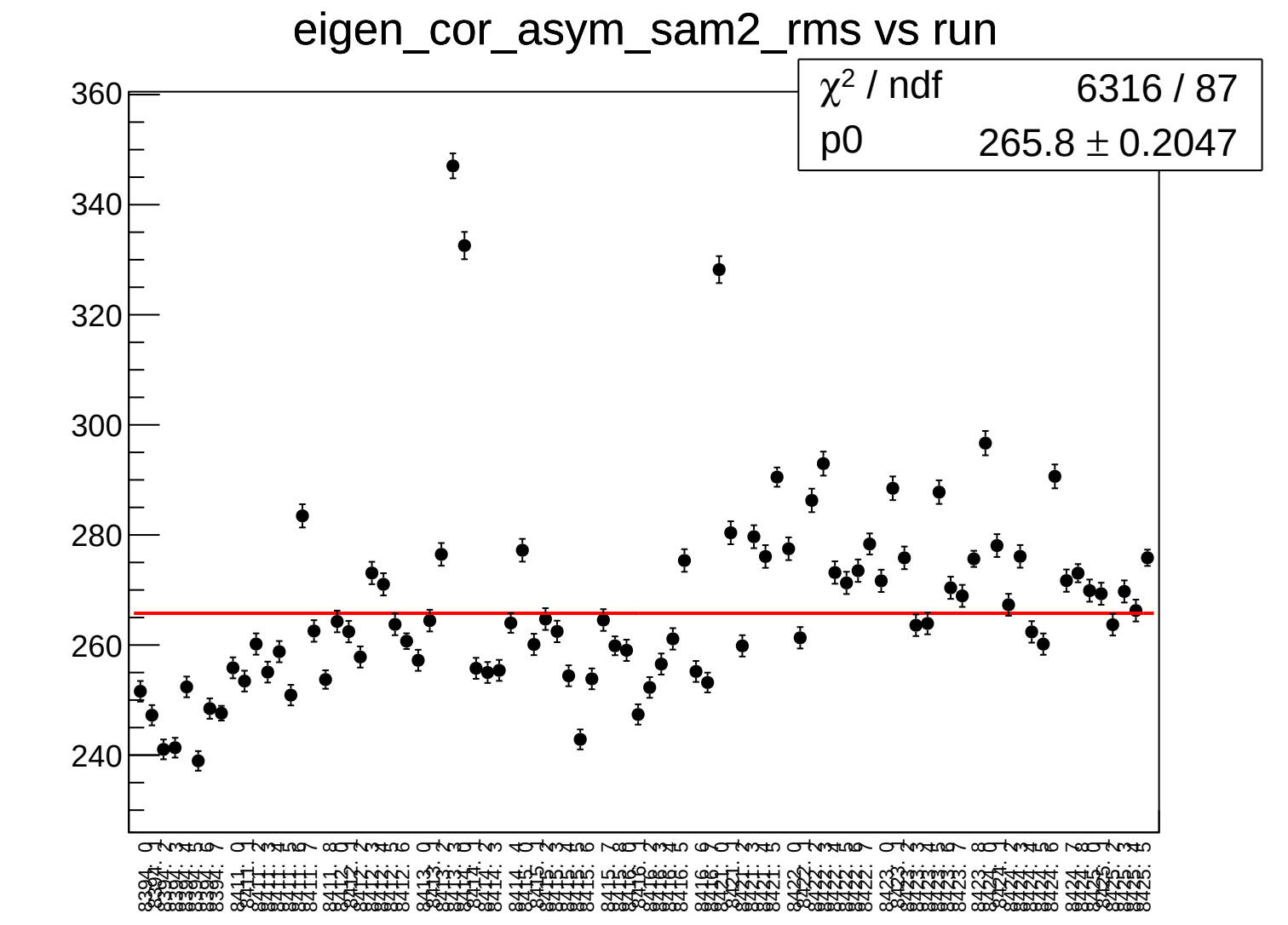

asym_sam2_cor_correction_mean vs run
×10^3
χ² / ndf 64.14 / 87
p0 −1.389e+04 ± 5362
pull
Entries 88
Mean −168.4
Std Dev 0

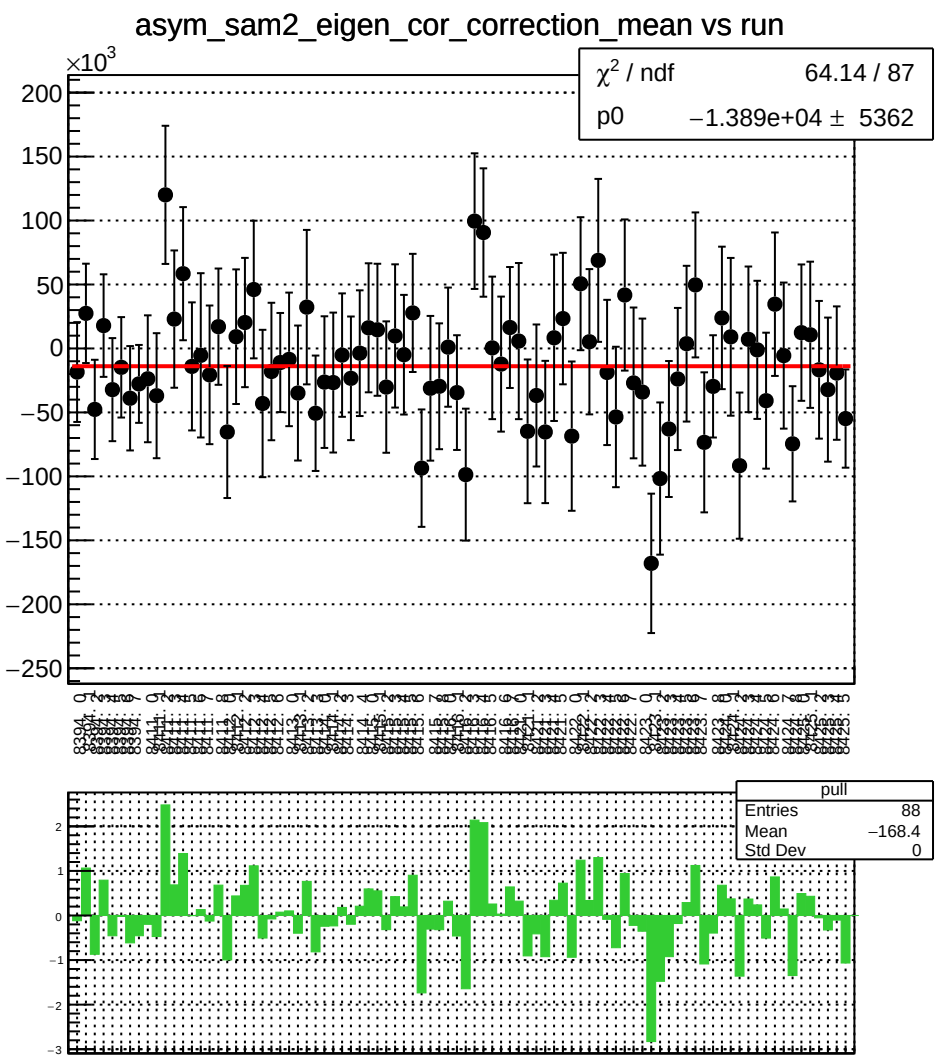

pull1D
Entries 88
Mean 0.01532
Std Dev 0.8536

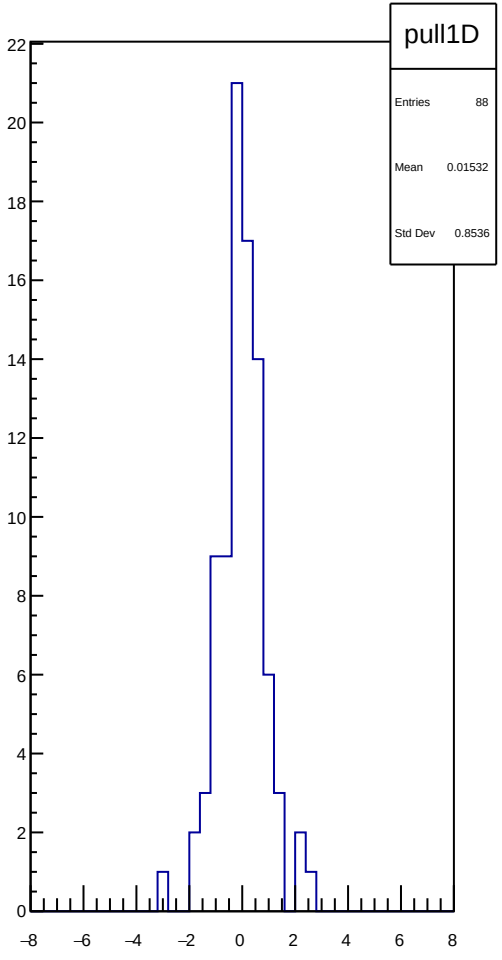

asym_sam2_cor_correction_rms vs run
χ² / ndf 2.528e+04 / 87
p0 4896 ± 3.792
6000
5500
5000
4500
4000
3500

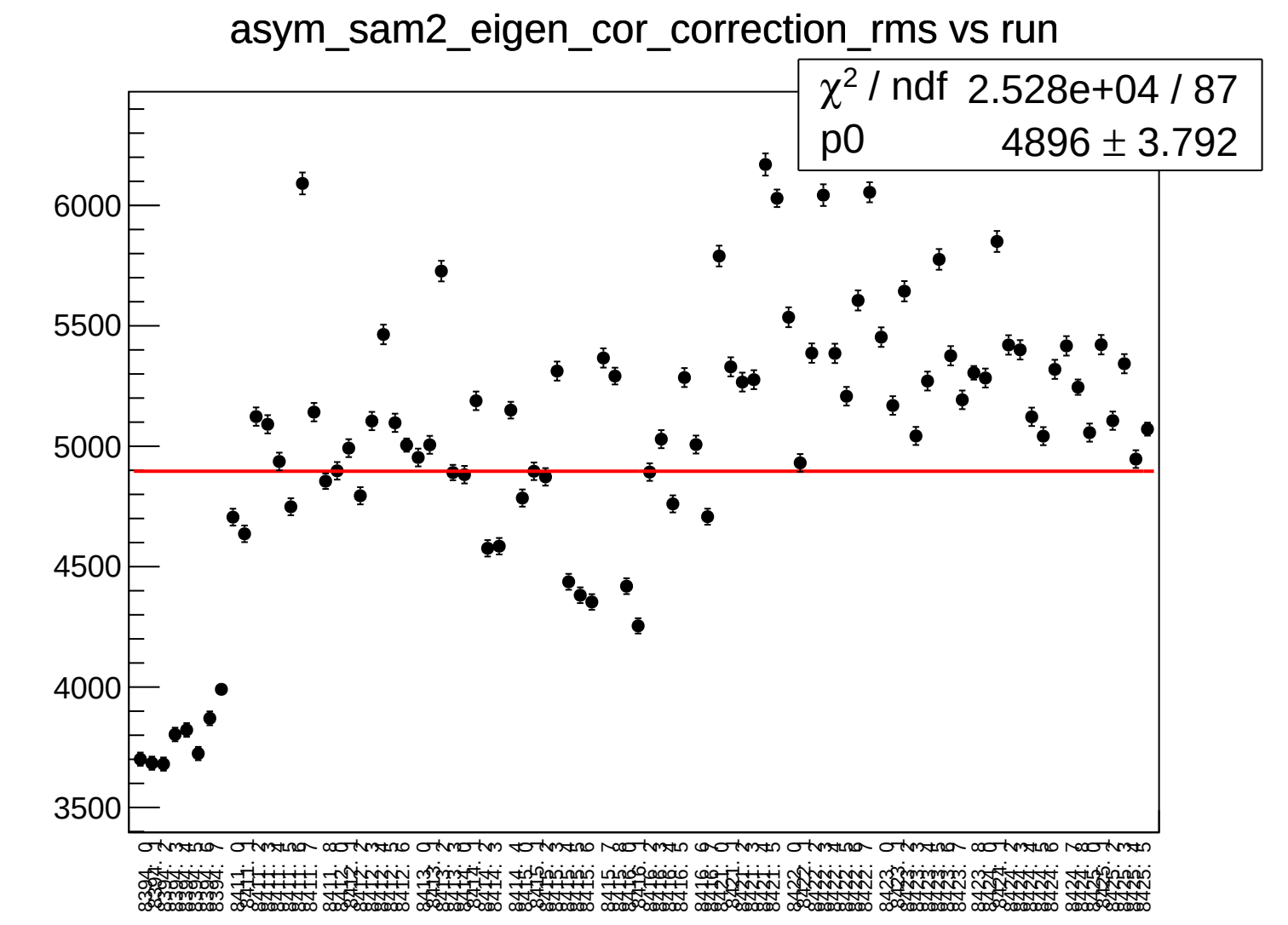

eigen_cor_asym_sam2_mean vs run
χ^2 / ndf 74.39 / 87
p0 125.8 ± 289.4
pull
Entries 88
Mean 819.7
Std Dev 0

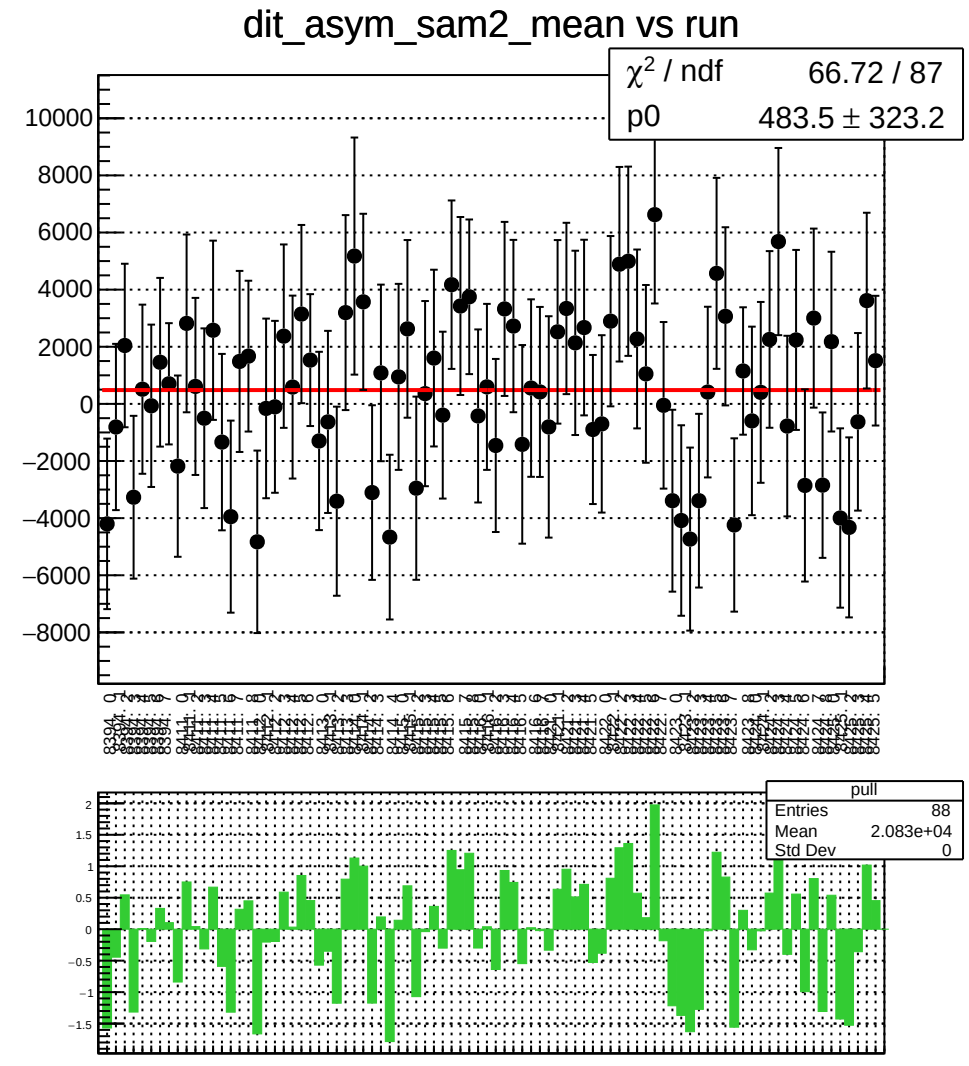

pull1D
Entries 88
Mean 0.005867
Std Dev 0.9194

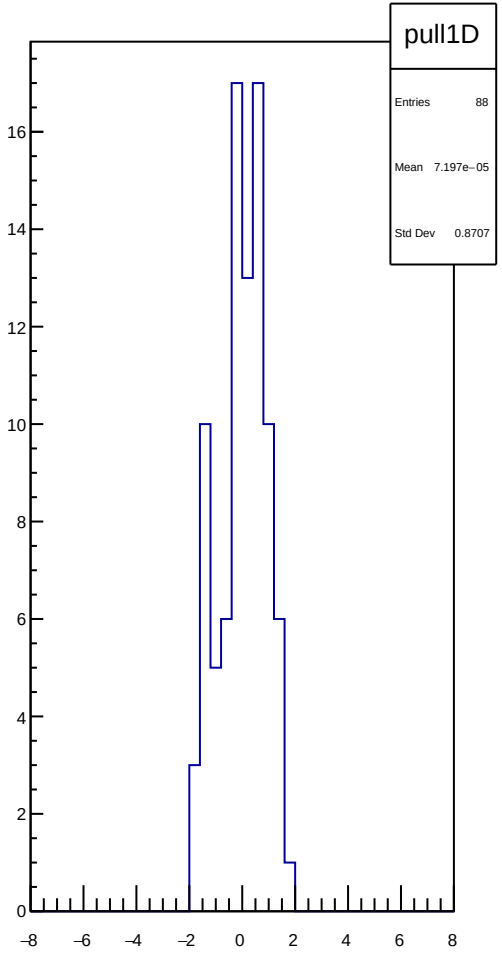

eigen_cor_asym_sam2_rms vs run
χ² / ndf 6316 / 87
p0 265.8 ± 0.2047
360
340
320
300
280
260
240

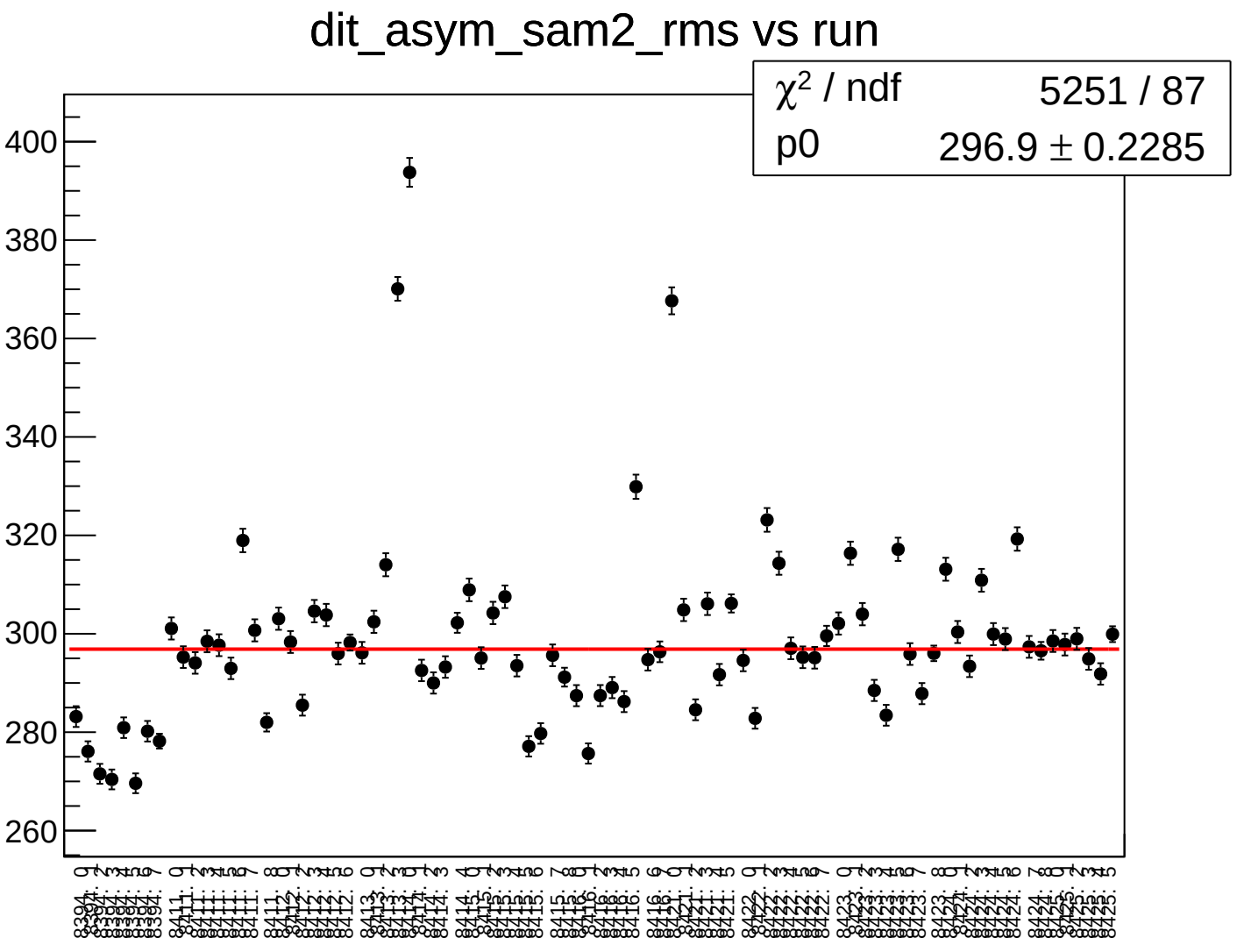

asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 64.14 / 87
p0 −1.389e+04 ± 5362
pull
Entries 88
Mean −168.4
Std Dev 0

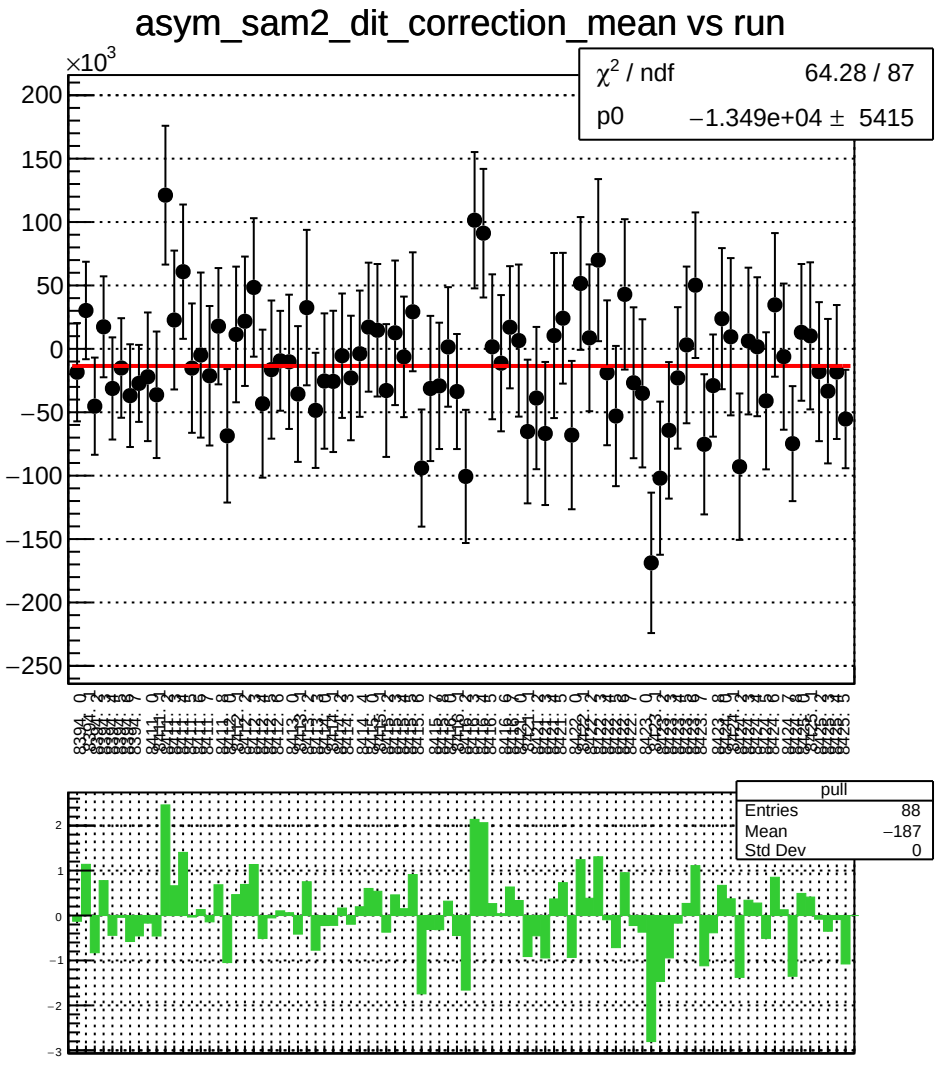

pull1D
Entries 88
Mean 0.01532
Std Dev 0.8536

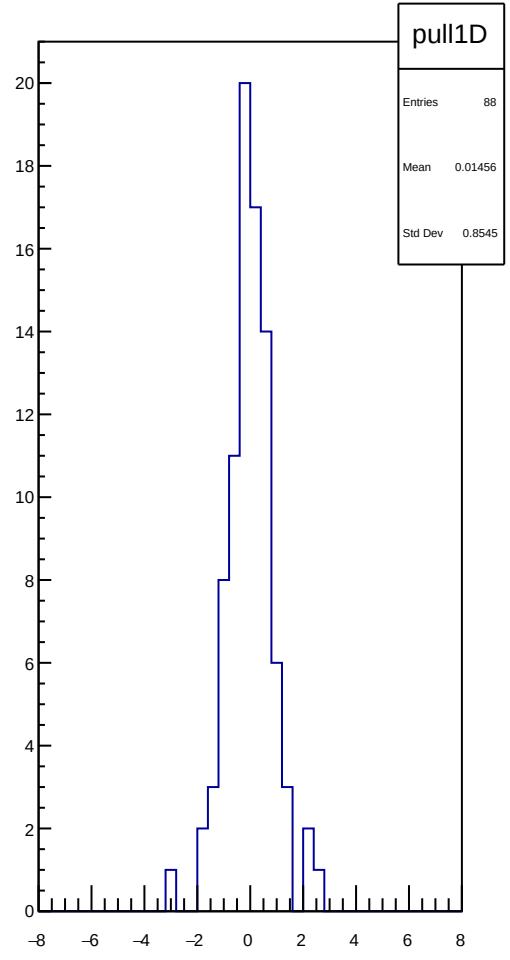

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 2.528e+04 / 87
p0 4896 ± 3.792
6000
5500
5000
4500
4000
3500

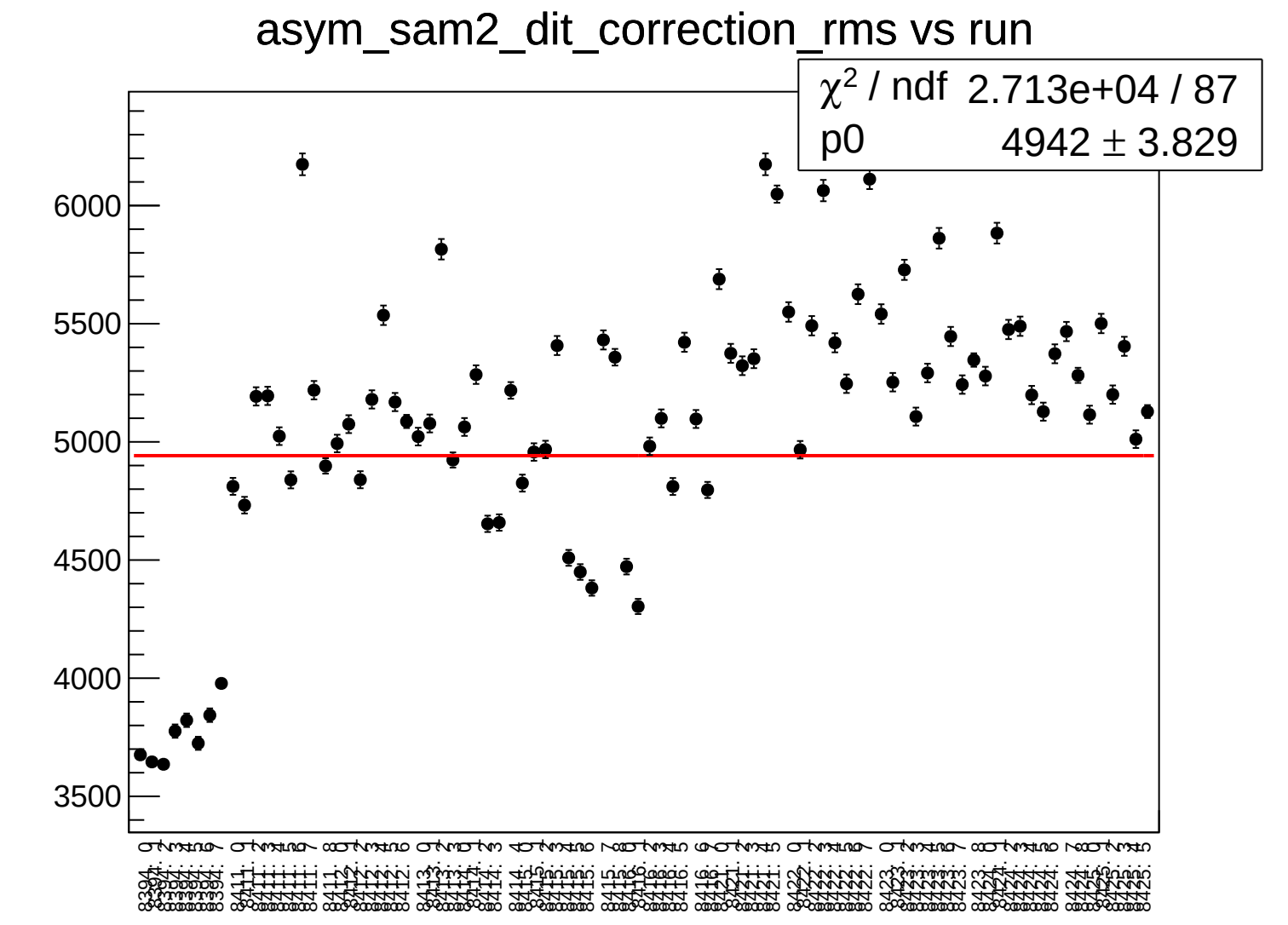

dit_asym_sam2_mean vs run
χ^2 / ndf 66.72 / 87
p0 483.5 ± 323.2
pull
Entries 88
Mean 2.083e+04
Std Dev 0

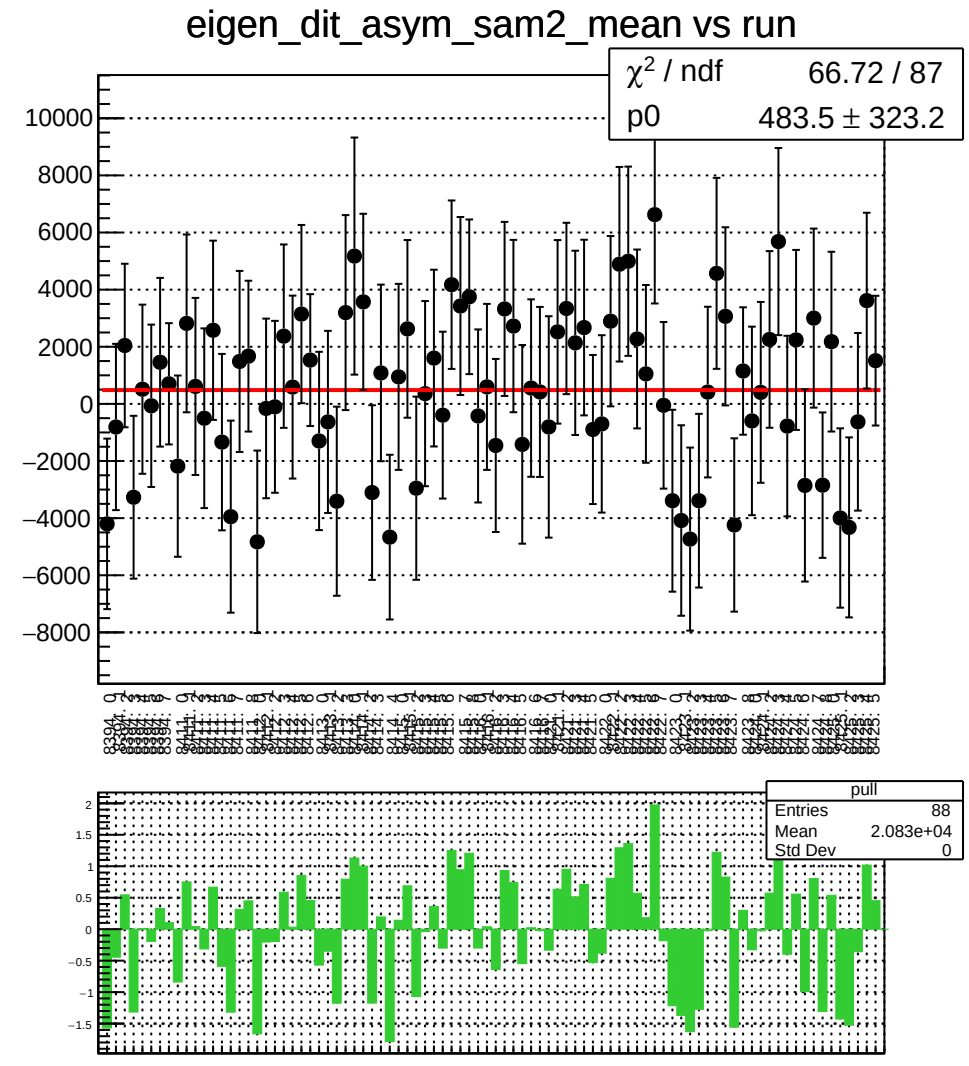

pull1D
Entries 88
Mean 7.197e−05
Std Dev 0.8707

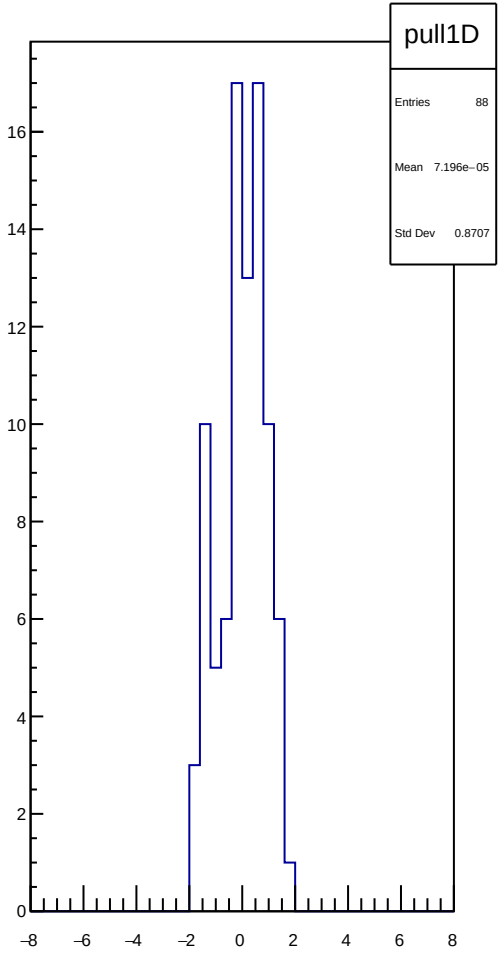

dit_asym_sam2_rms vs run
χ² / ndf 5251 / 87
p0 296.9 ± 0.2285
400
380
360
340
320
300
280
260

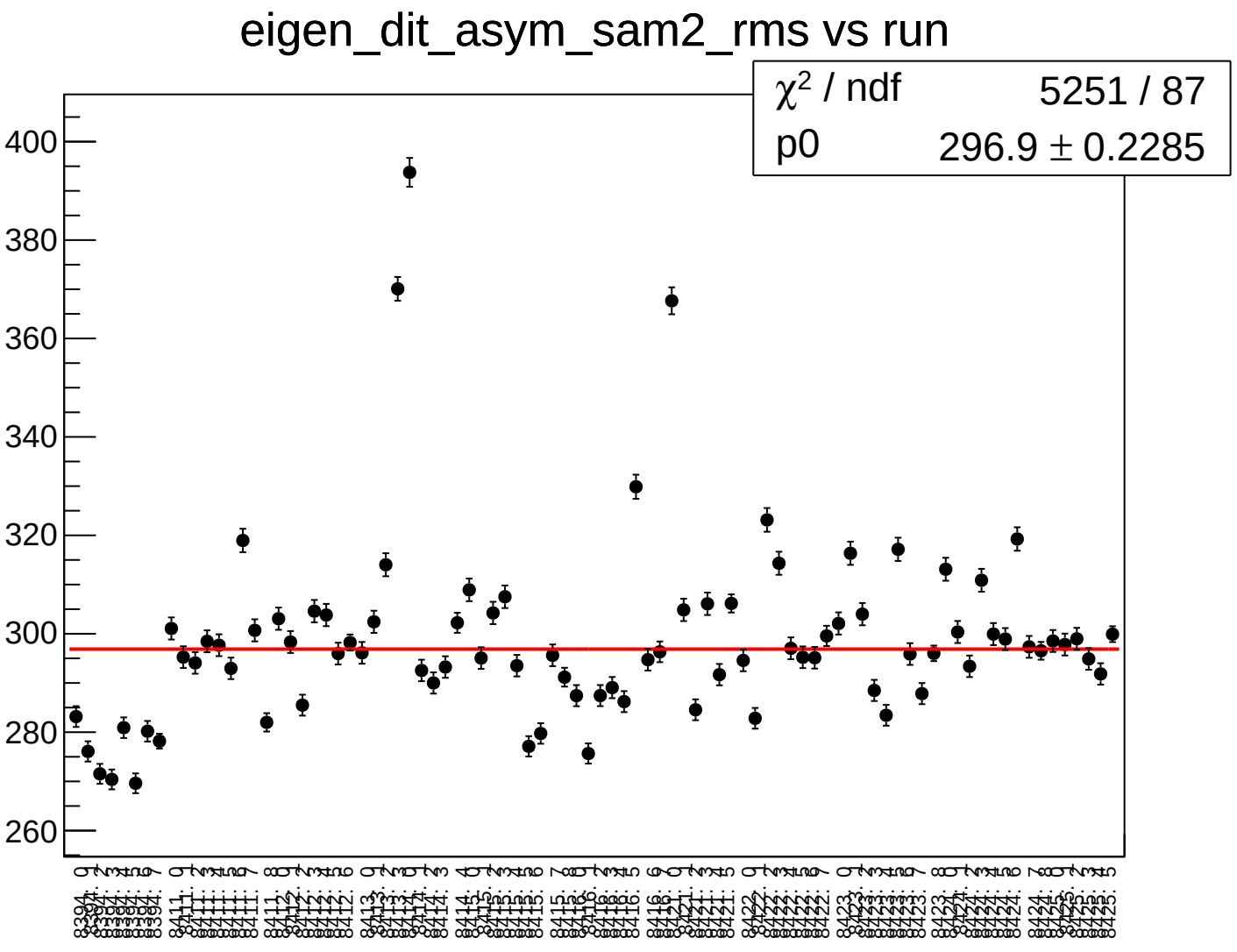

asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 64.28 / 87
p0 −1.349e+04 ± 5415
pull
Entries 88
Mean −187
Std Dev 0

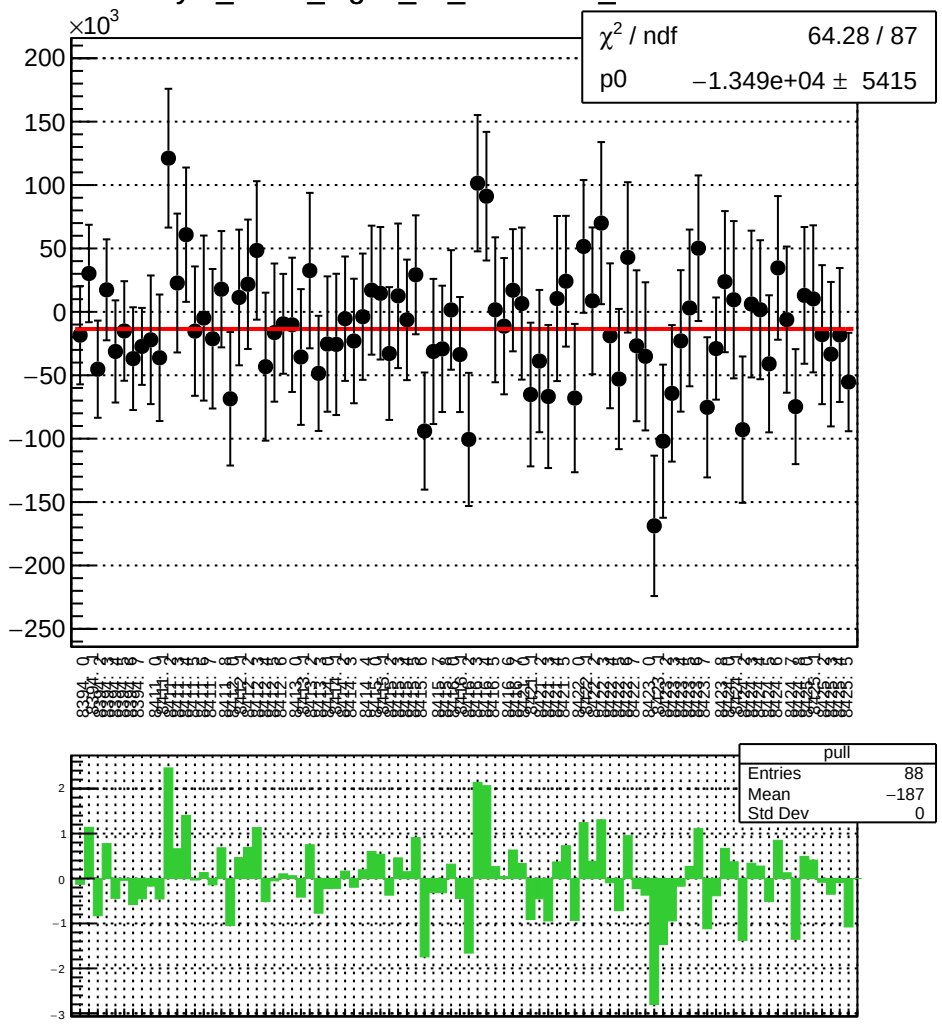

pull1D
Entries 88
Mean 0.01456
Std Dev 0.8545

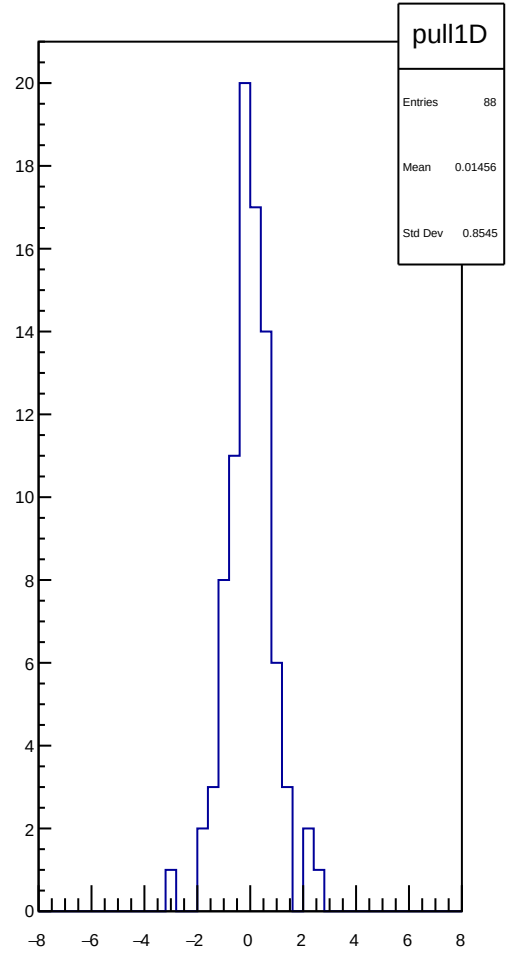

asym_sam2_dit_correction_rms vs run
χ² / ndf 2.713e+04 / 87
p0 4942 ± 3.829
6000
5500
5000
4500
4000
3500

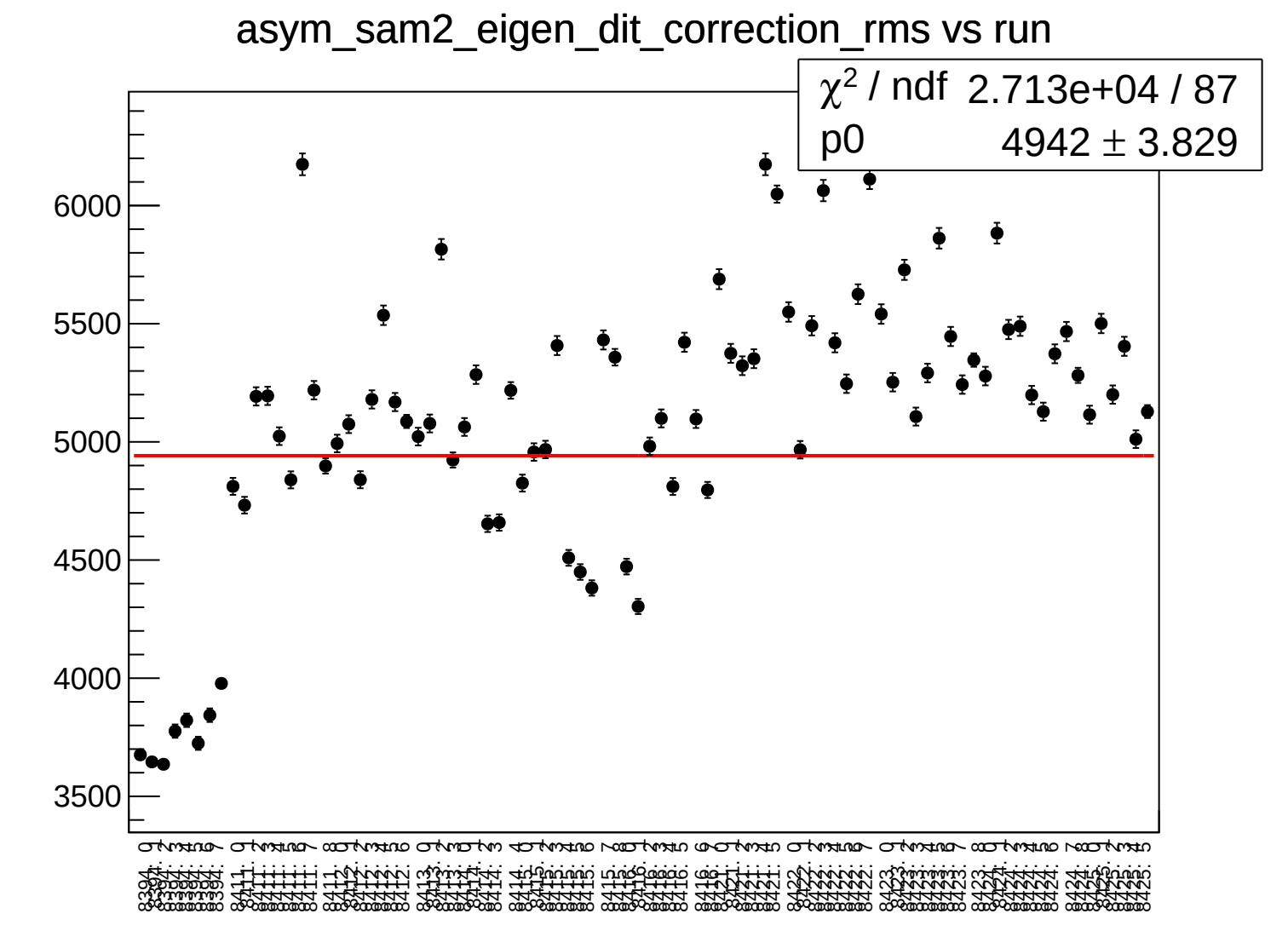

eigen_dit_asym_sam2_mean vs run
χ^2 / ndf 66.72 / 87
p0 483.5 ± 323.2
pull
Entries 88
Mean 2.083e+04
Std Dev 0

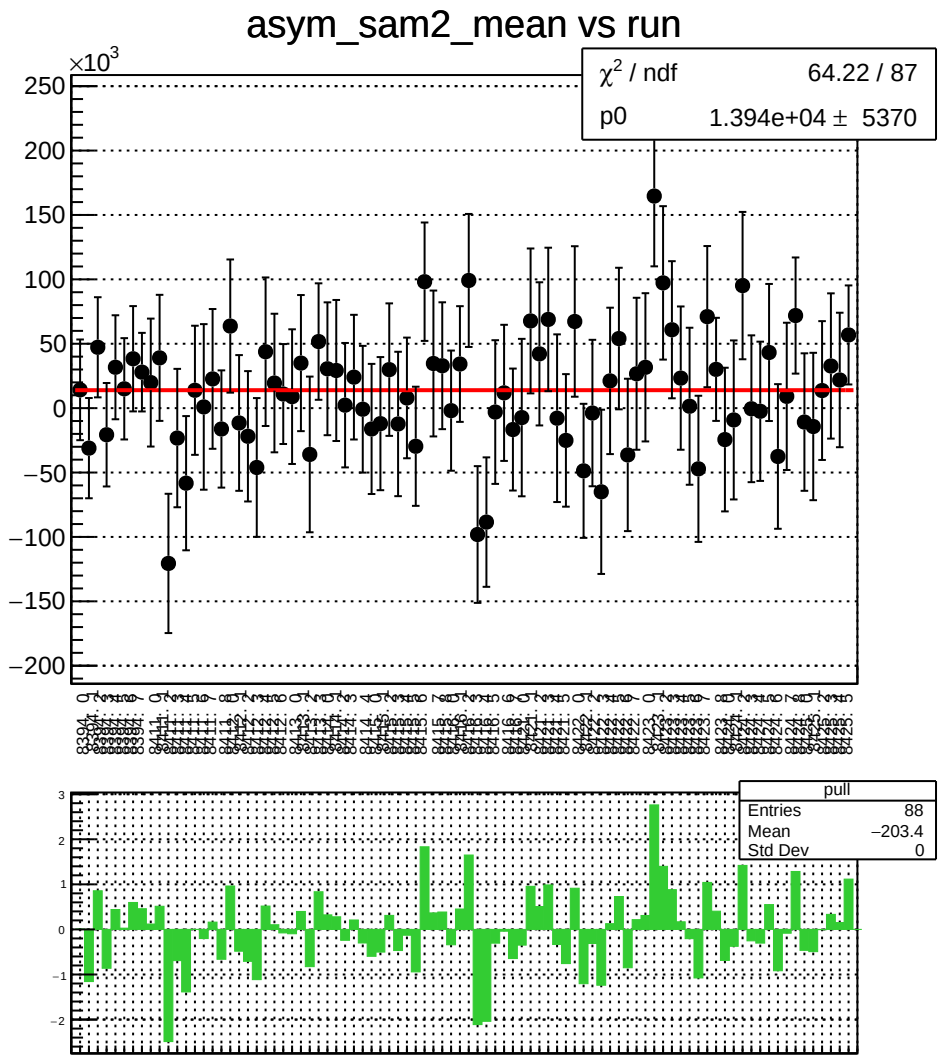

pull1D
Entries 88
Mean 7.196e−05
Std Dev 0.8707

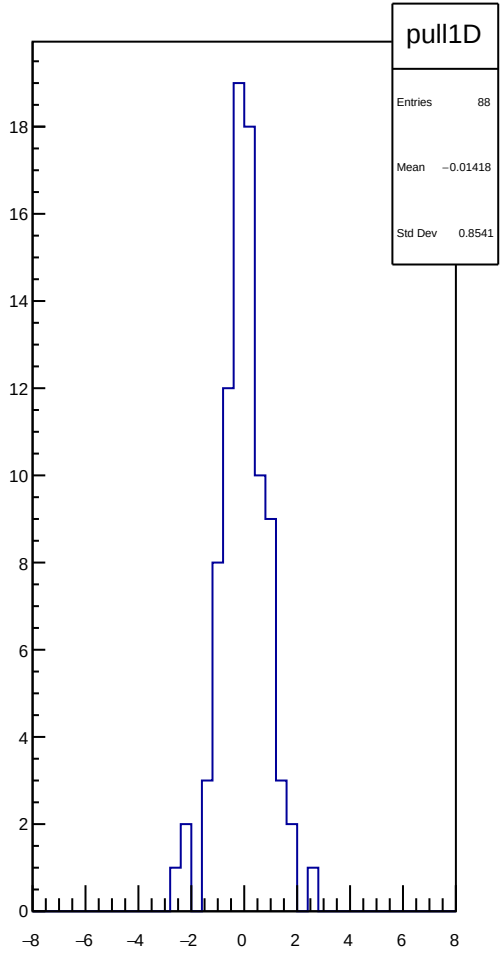

eigen_dit_asym_sam2_rms vs run
χ² / ndf 5251 / 87
p0 296.9 ± 0.2285
400
380
360
340
320
300
280
260

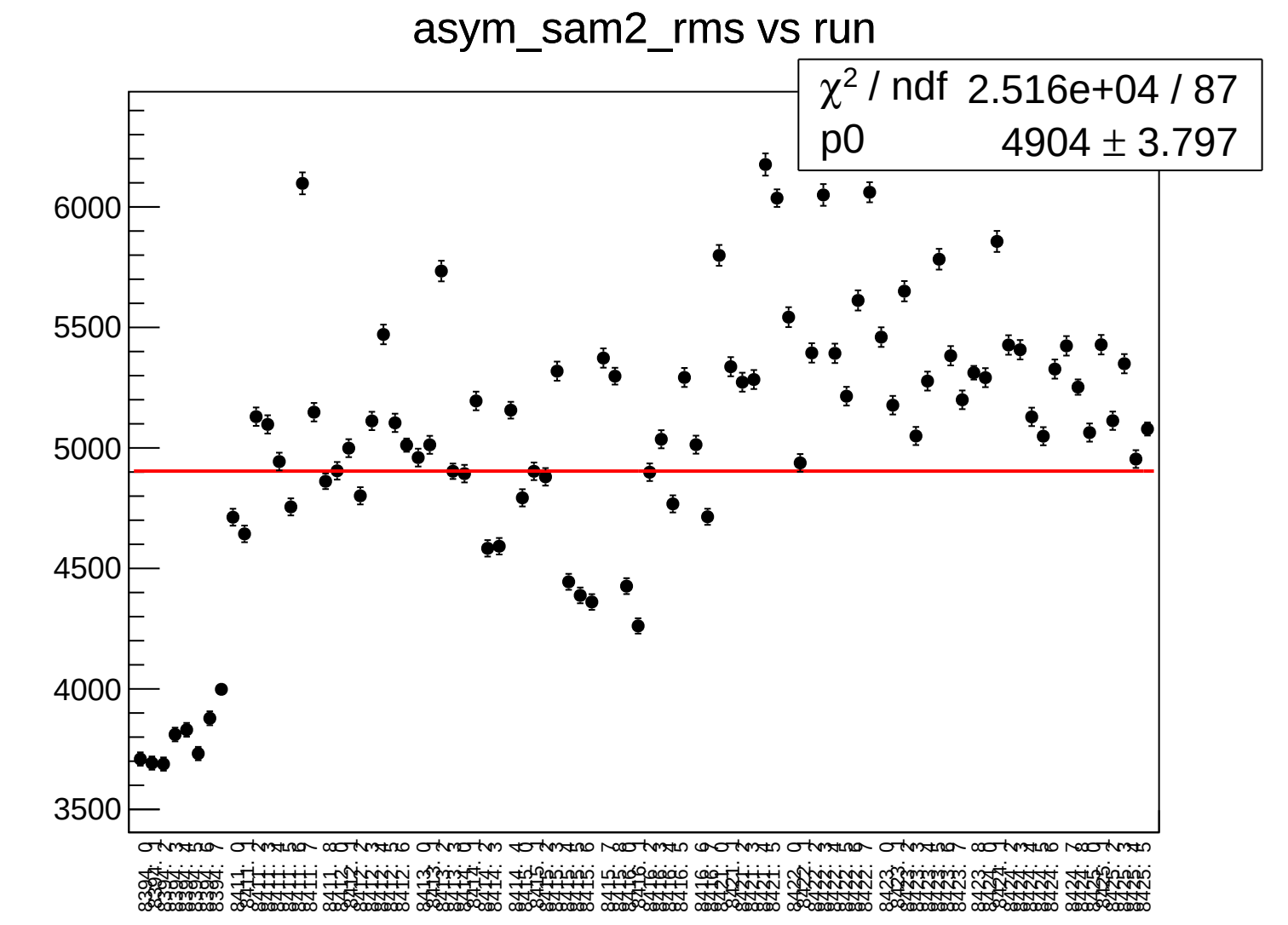

asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 64.28 / 87
p0 −1.349e+04 ± 5415
pull
Entries 88
Mean −187
Std Dev 0

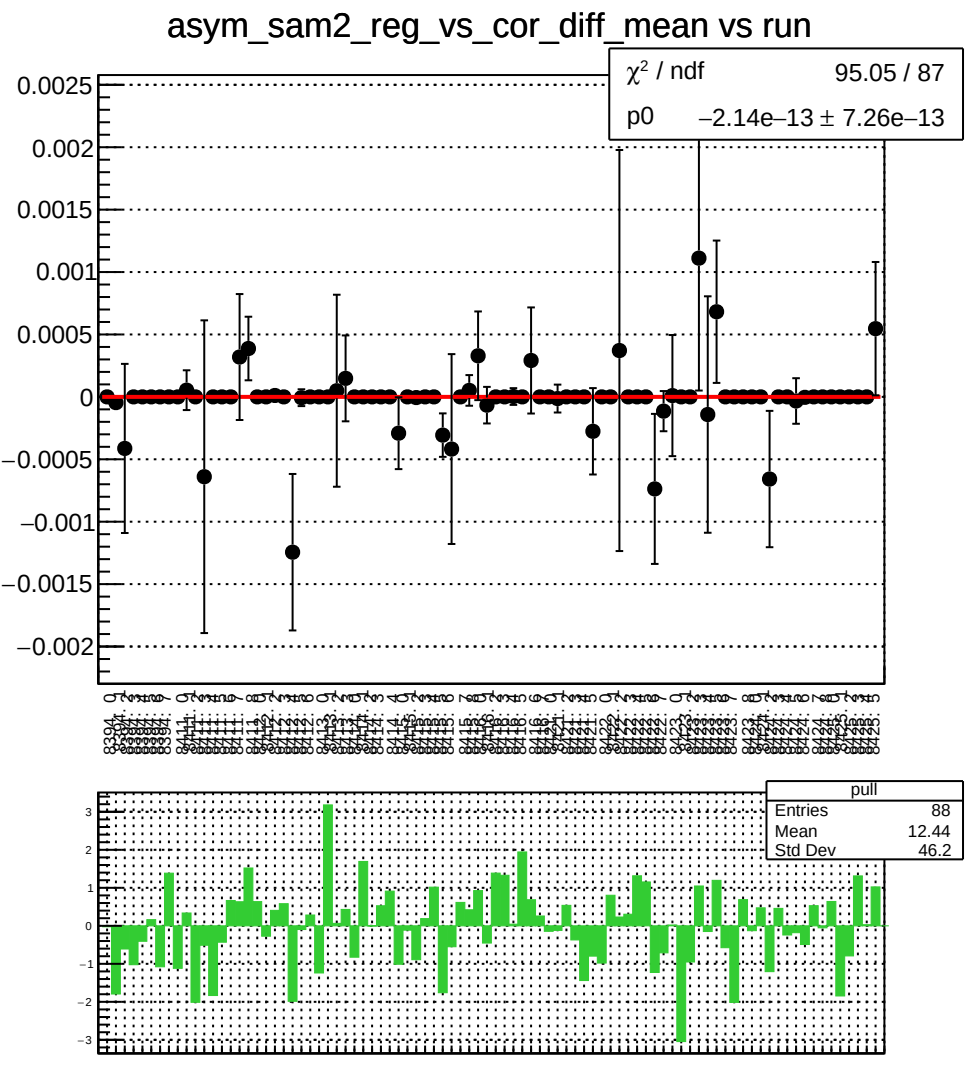

pull1D
Entries 88
Mean 0.01456
Std Dev 0.8545

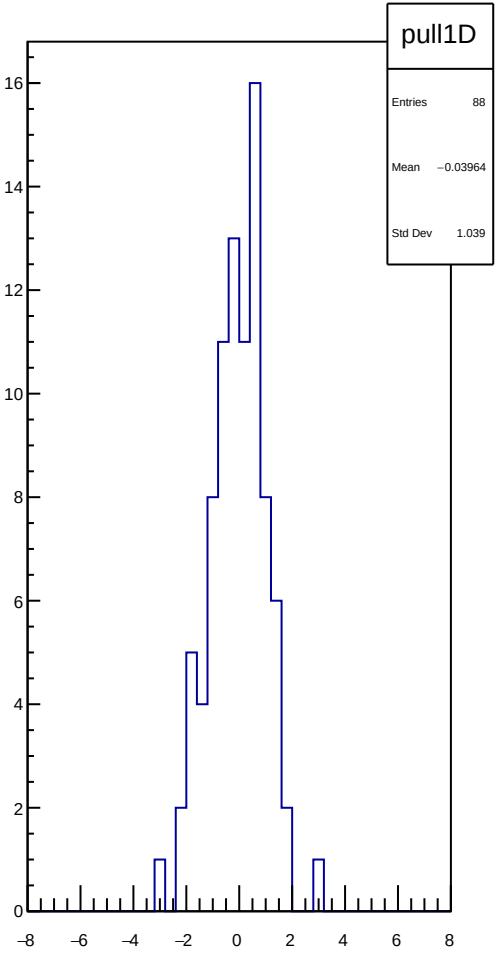

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 2.713e+04 / 87
p0 4942 ± 3.829
6000
5500
5000
4500
4000
3500

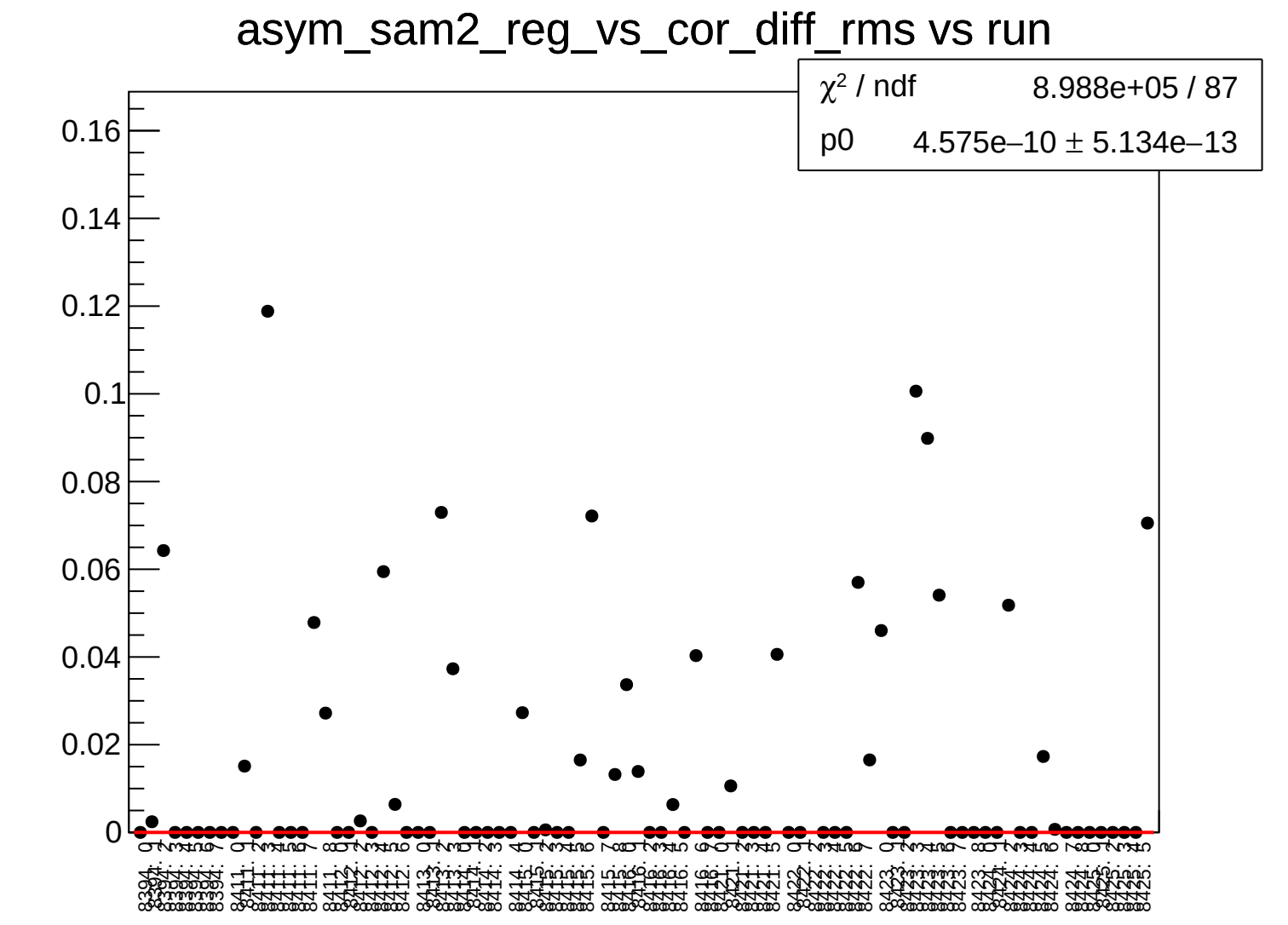

asym_sam2_mean vs run
×10^3
χ² / ndf 64.22 / 87
p0 1.394e+04 ± 5370
pull
Entries 88
Mean −203.4
Std Dev 0

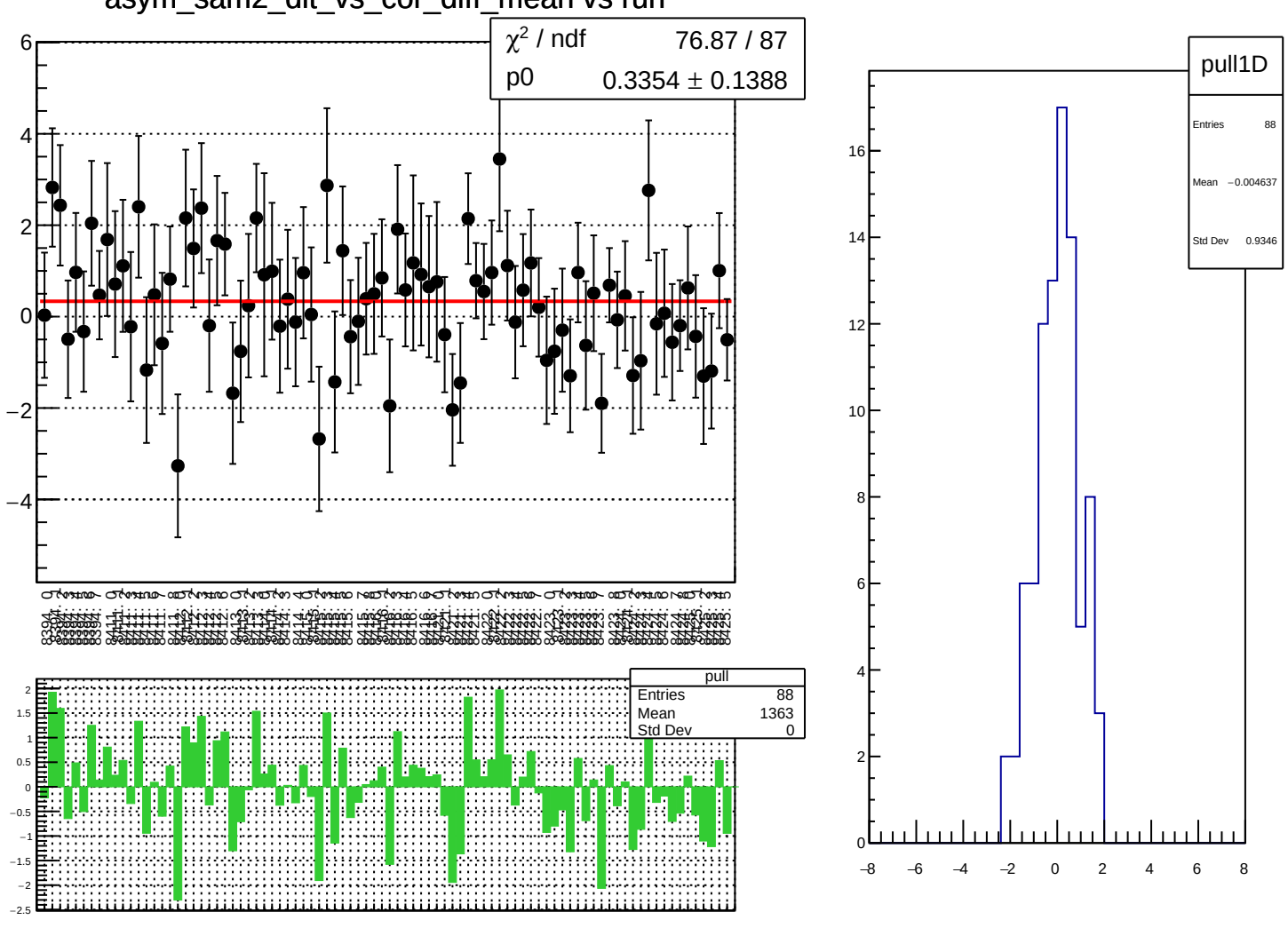

pull1D
Entries 88
Mean −0.01418
Std Dev 0.8541

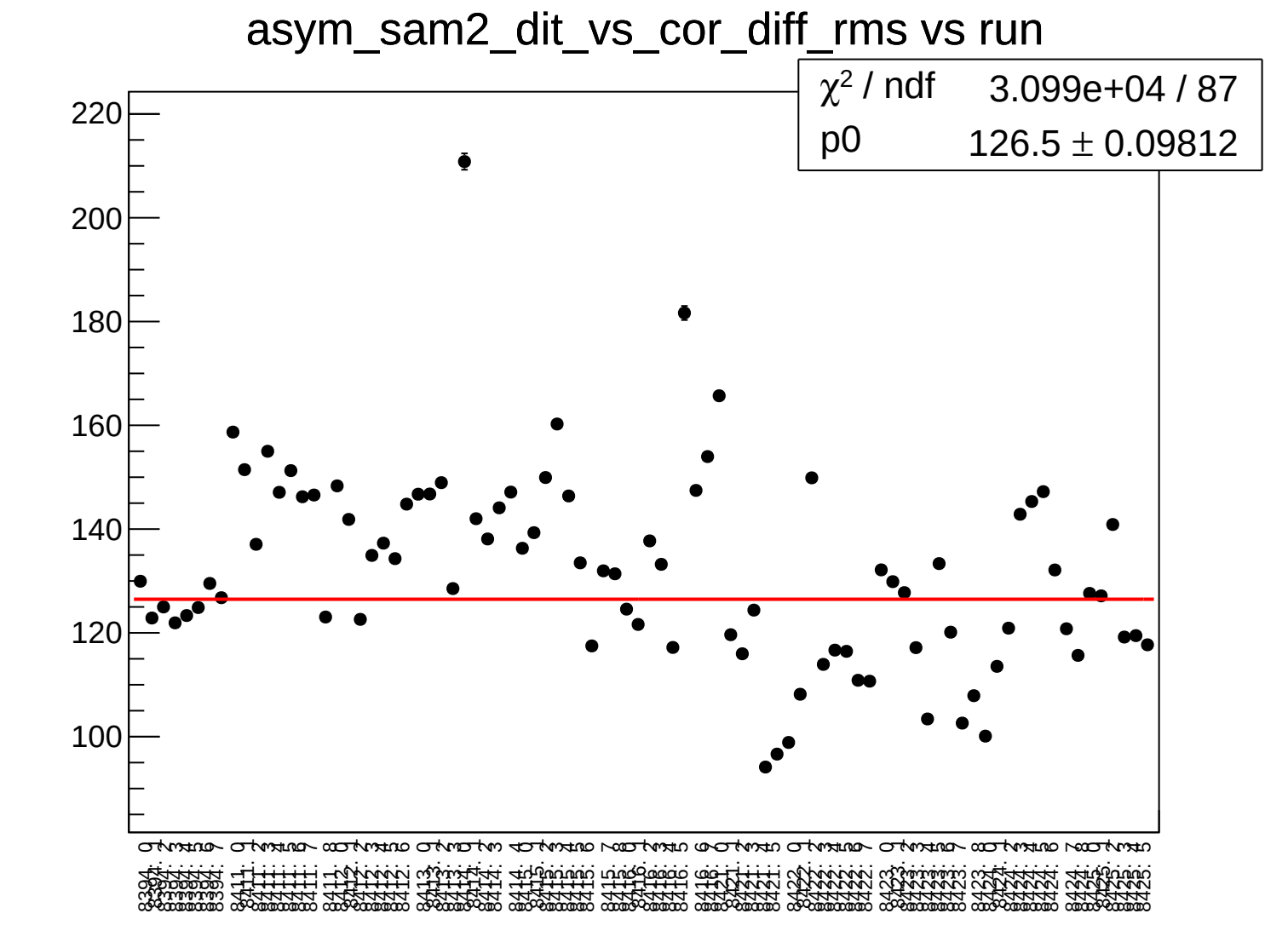

asym_sam2_rms vs run
χ² / ndf 2.516e+04 / 87
p0 4904 ± 3.797
6000
5500
5000
4500
4000
3500

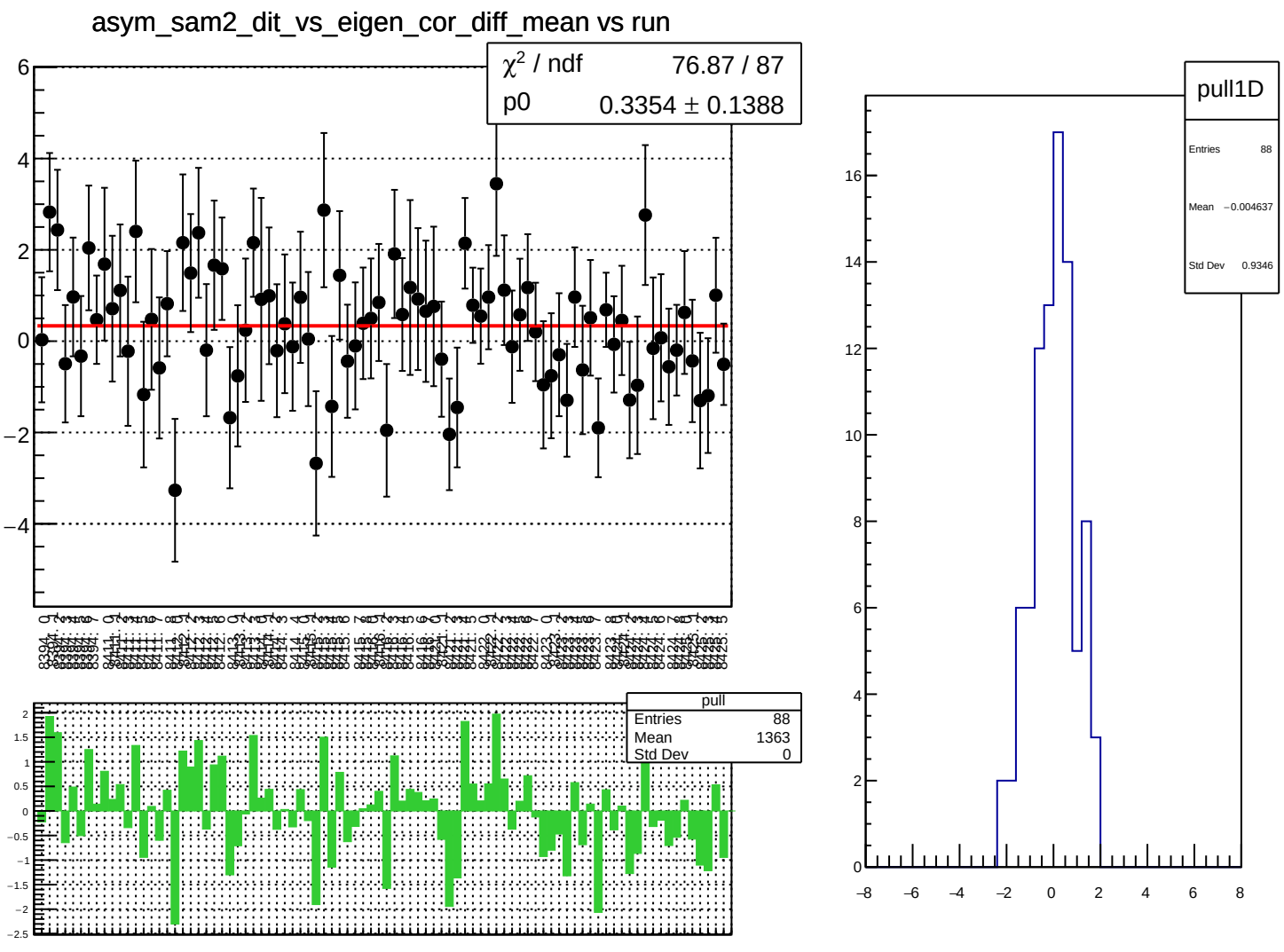

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 95.05 / 87
p0 −2.14e−13 ± 7.26e−13
pull
Entries 88
Mean 12.44
Std Dev 46.2

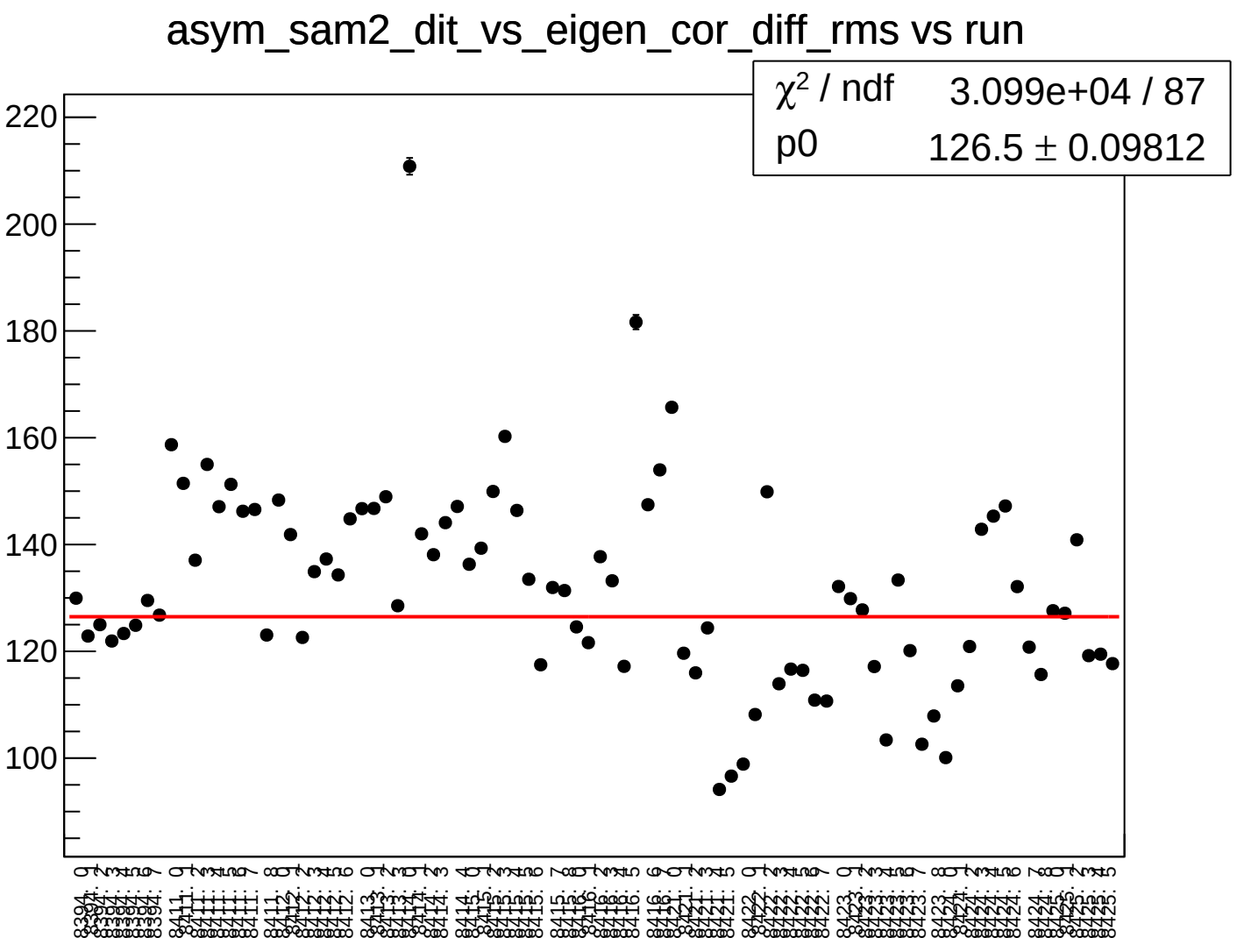

pull1D
Entries 88
Mean −0.03964
Std Dev 1.039

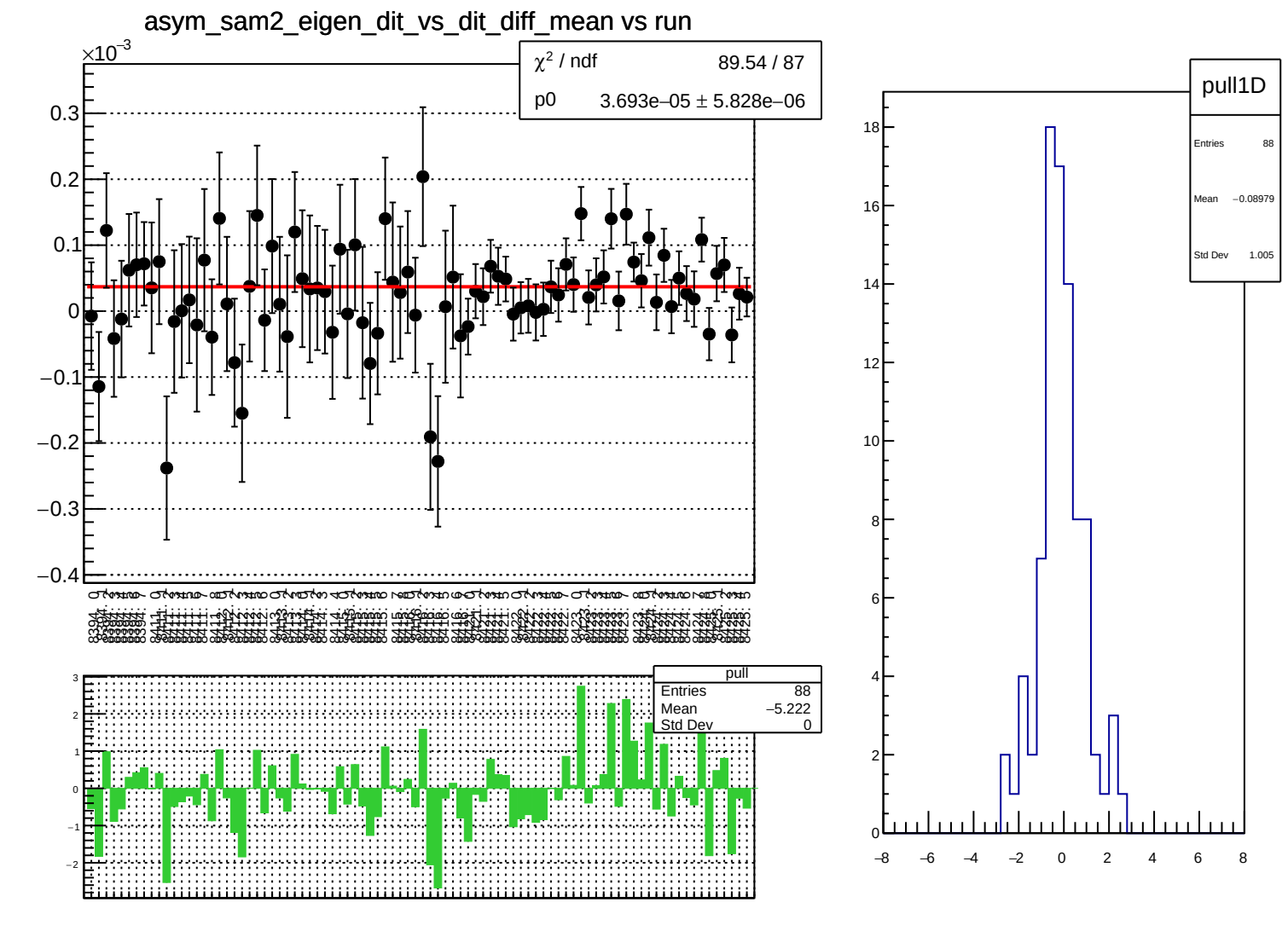

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 8.988e+05 / 87
p0 4.575e−10 ± 5.134e−13
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0


asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 76.87 / 87
p0 0.3354 ± 0.1388
pull
Entries 88
Mean 1363
Std Dev 0
pull1D
Entries 88
Mean −0.004637
Std Dev 0.9346

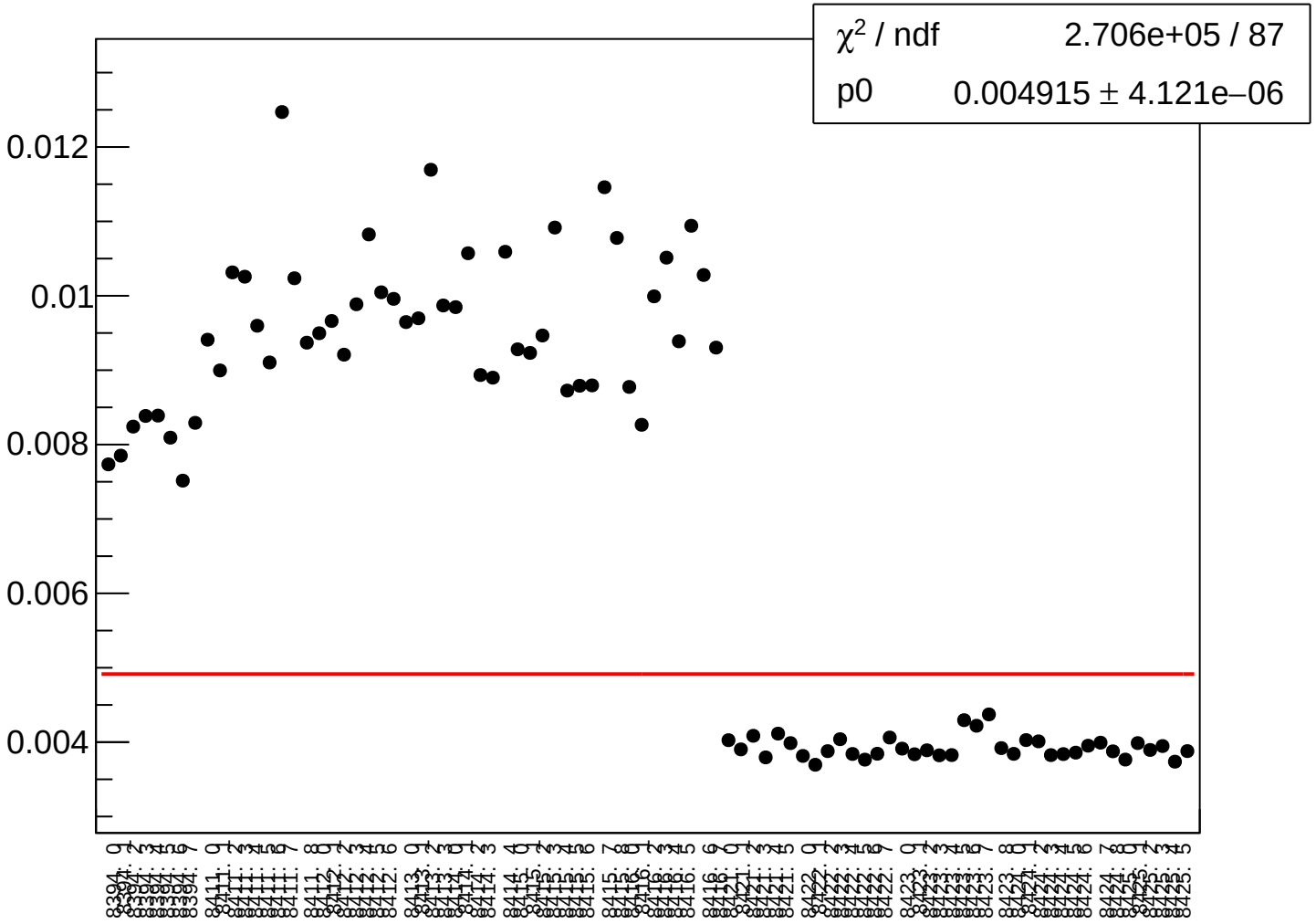

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 3.099e+04 / 87
p0 126.5 ± 0.09812
220
200
180
160
140
120
100

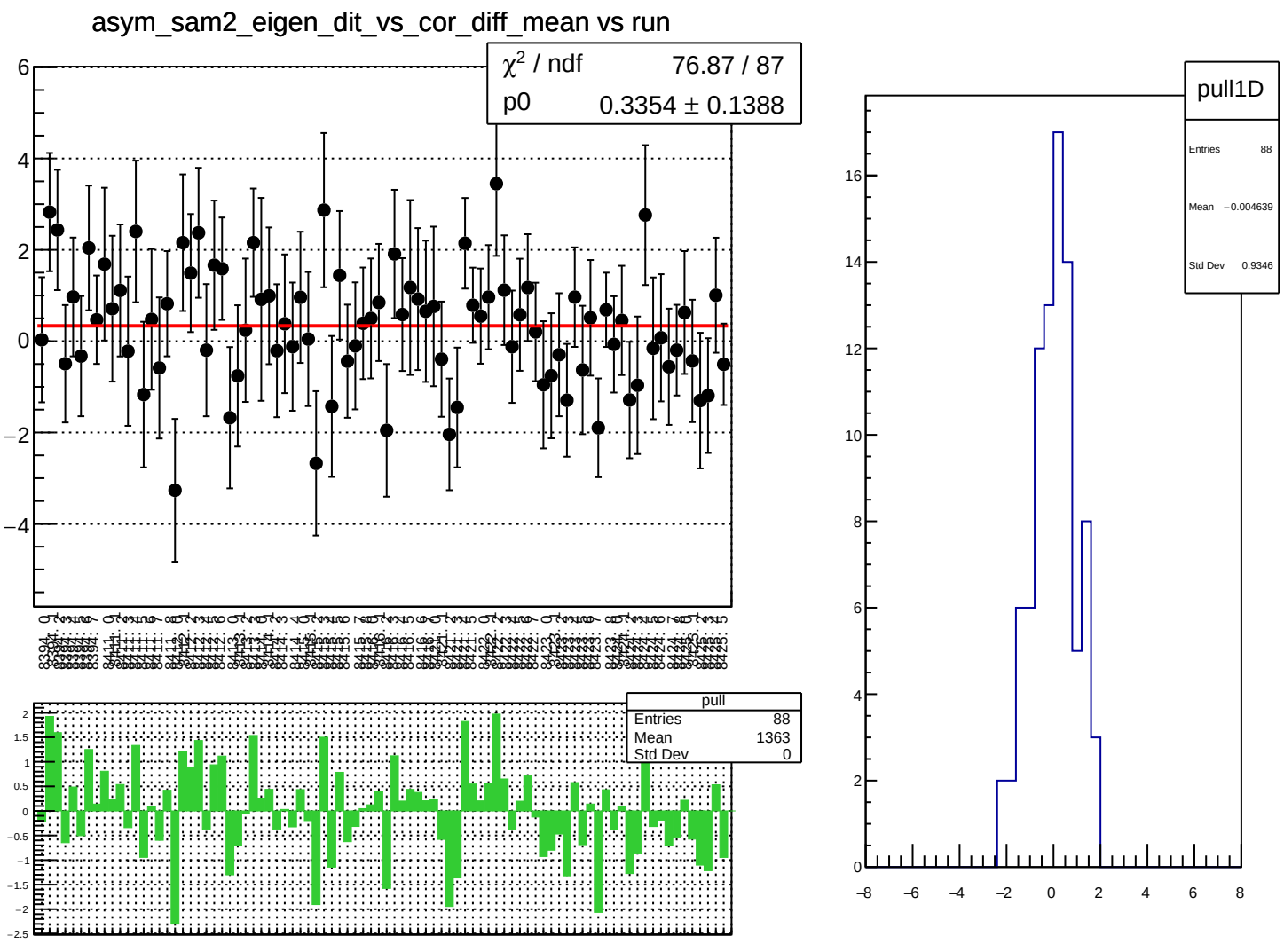

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.87 / 87
p0 0.3354 ± 0.1388
pull
Entries 88
Mean 1363
Std Dev 0
pull1D
Entries 88
Mean −0.004637
Std Dev 0.9346

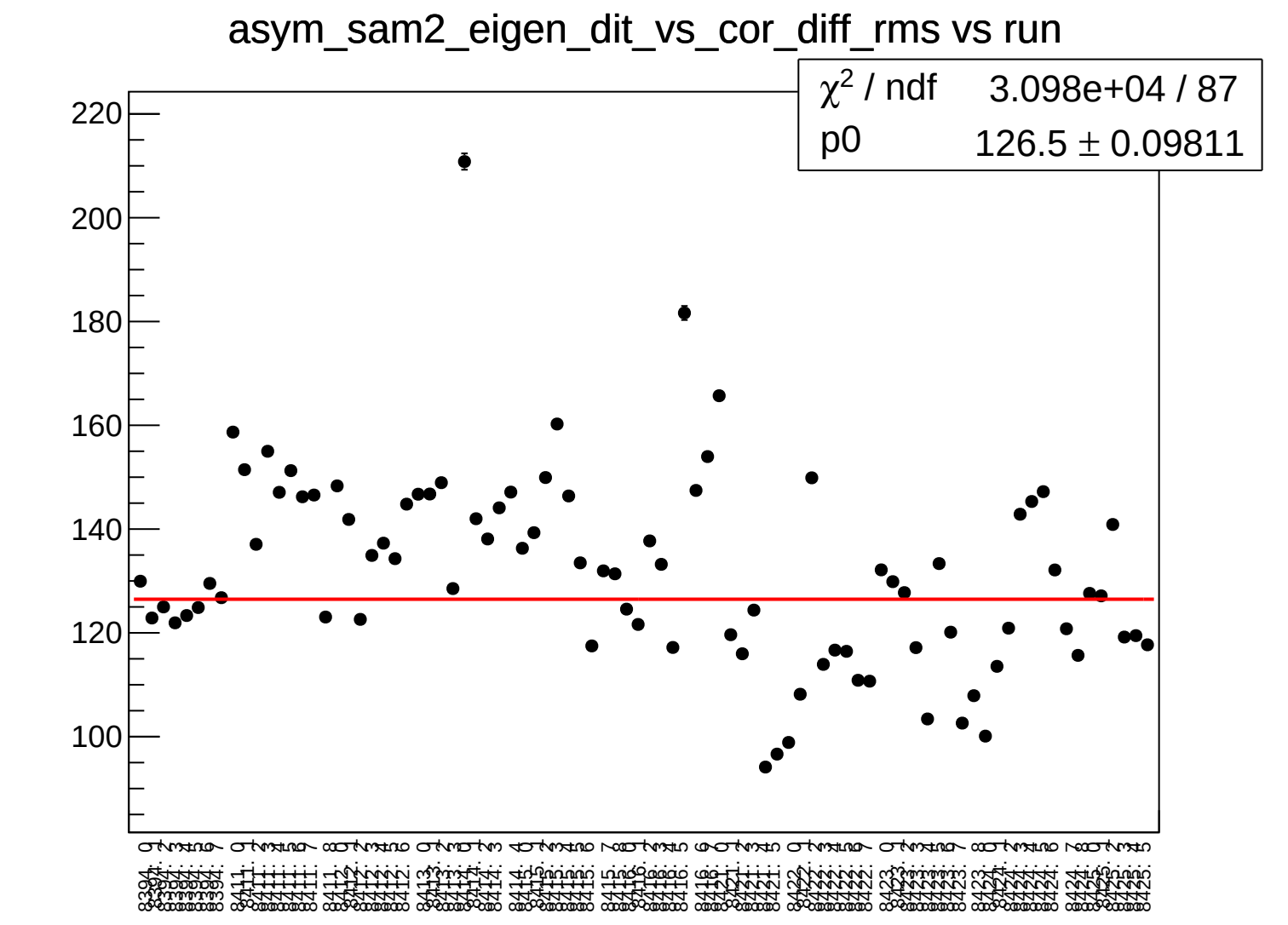

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.099e+04 / 87
p0 126.5 ± 0.09812
220
200
180
160
140
120
100

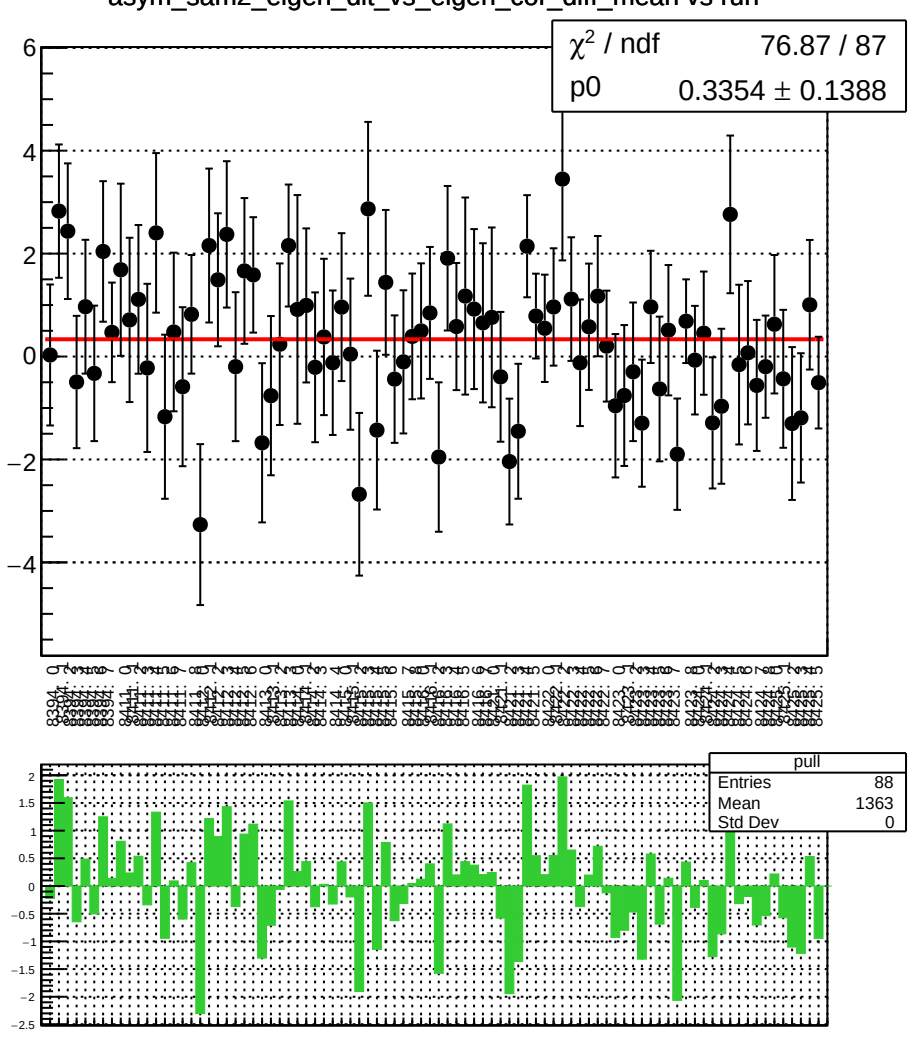

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.54 / 87
p0 3.693e−05 ± 5.828e−06
pull
Entries 88
Mean −5.222
Std Dev 0
pull1D
Entries 88
Mean −0.08979
Std Dev 1.005

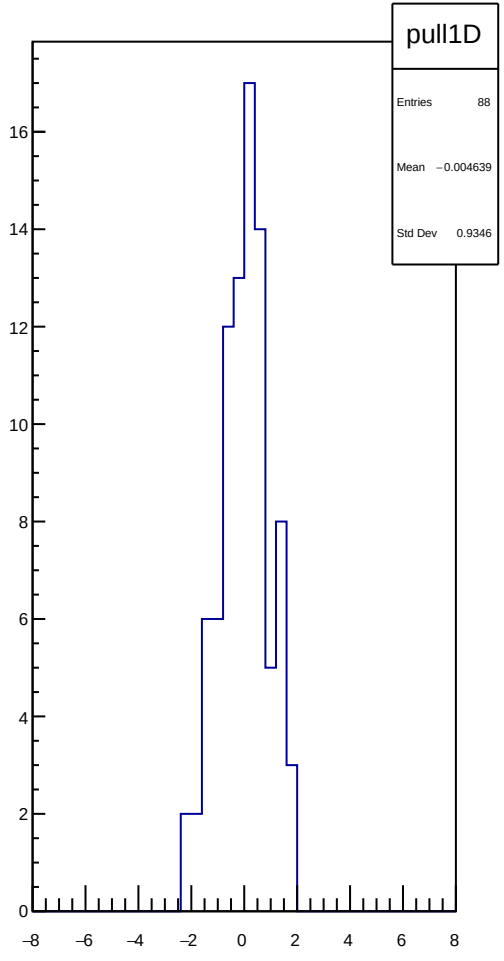
asym_sam2_eigen_dit_vs_dit_diff_rms vs run

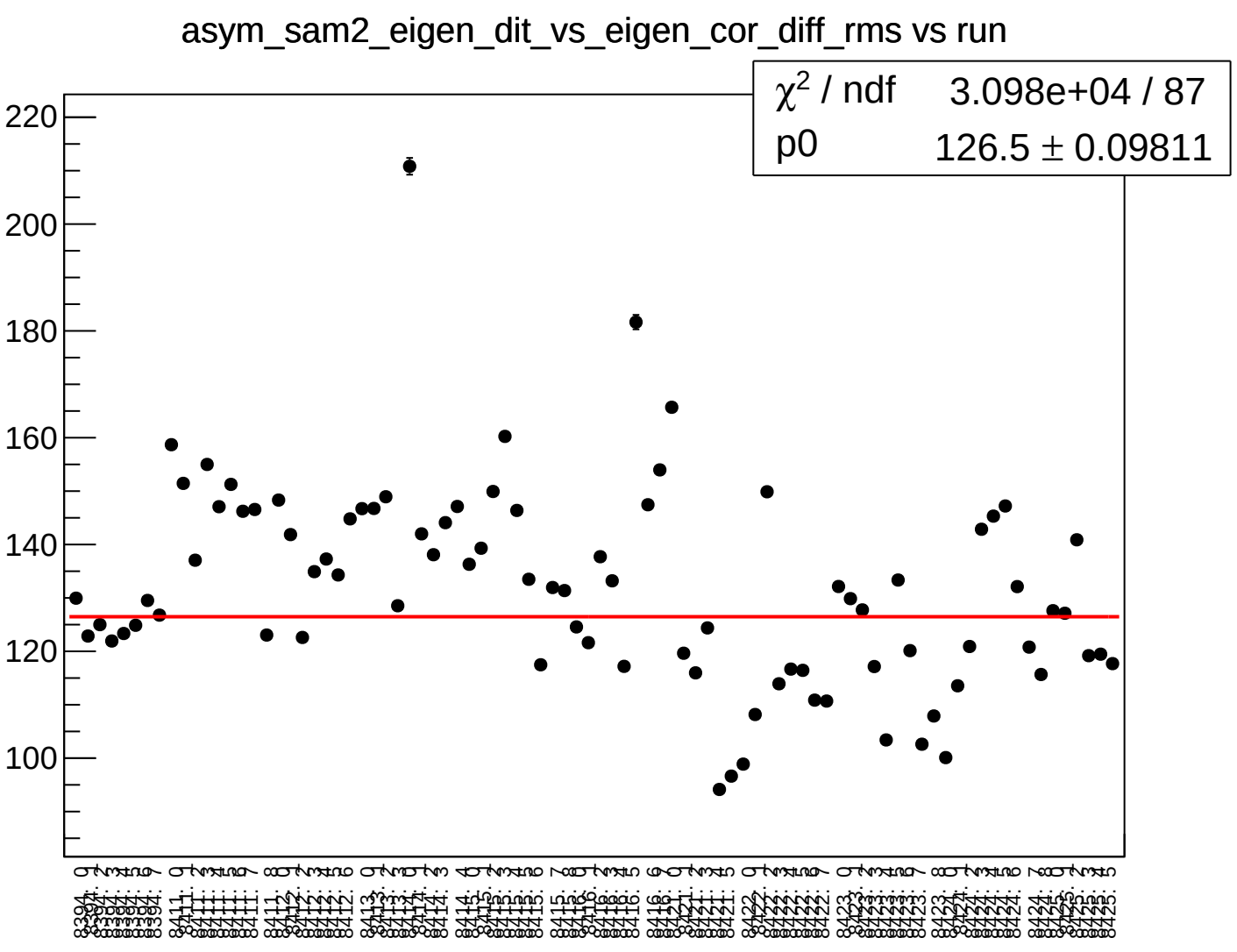


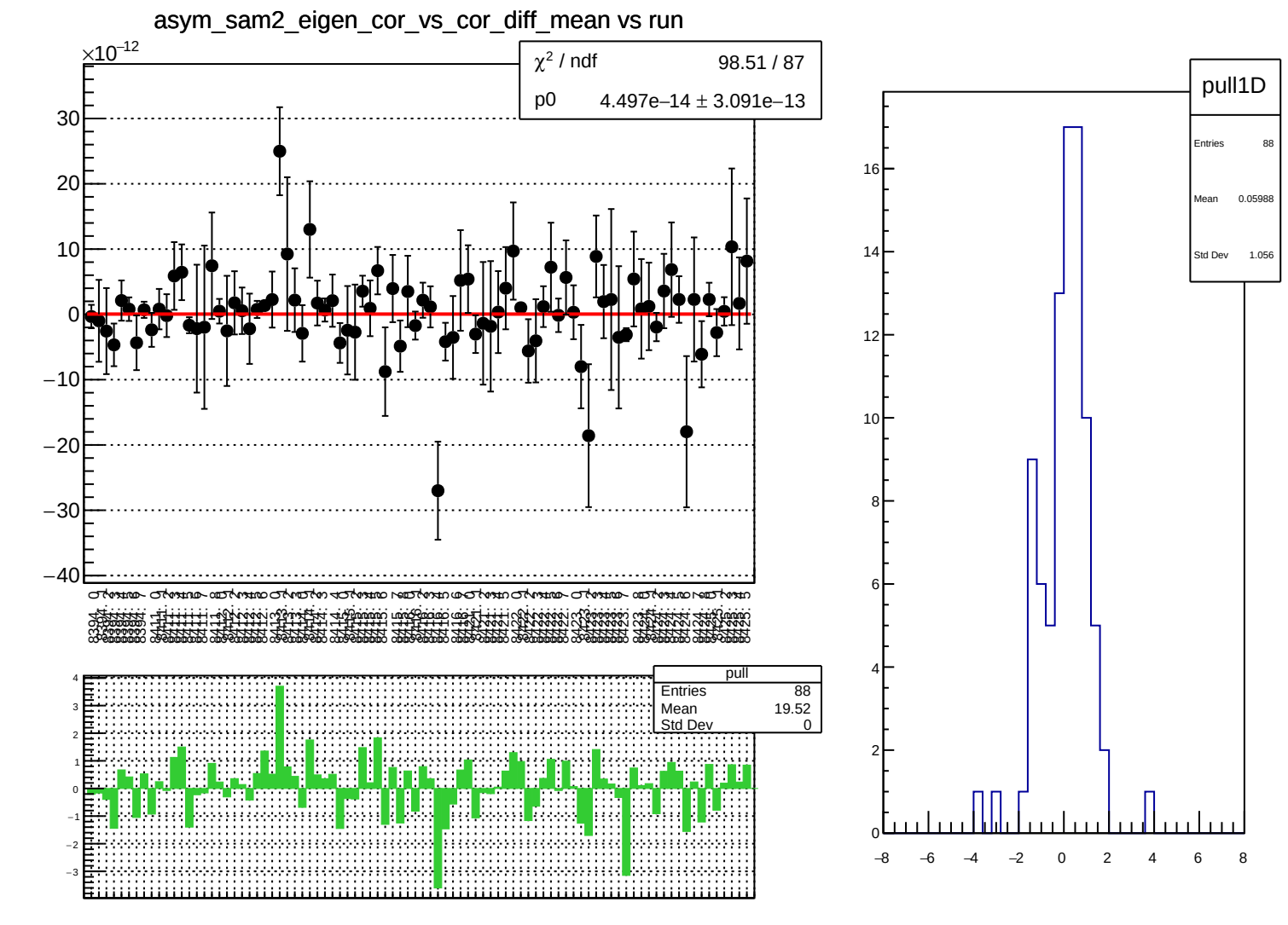

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.87 / 87
p0 0.3354 ± 0.1388
pull
Entries 88
Mean 1363
Std Dev 0
pull1D
Entries 88
Mean −0.004639
Std Dev 0.9346

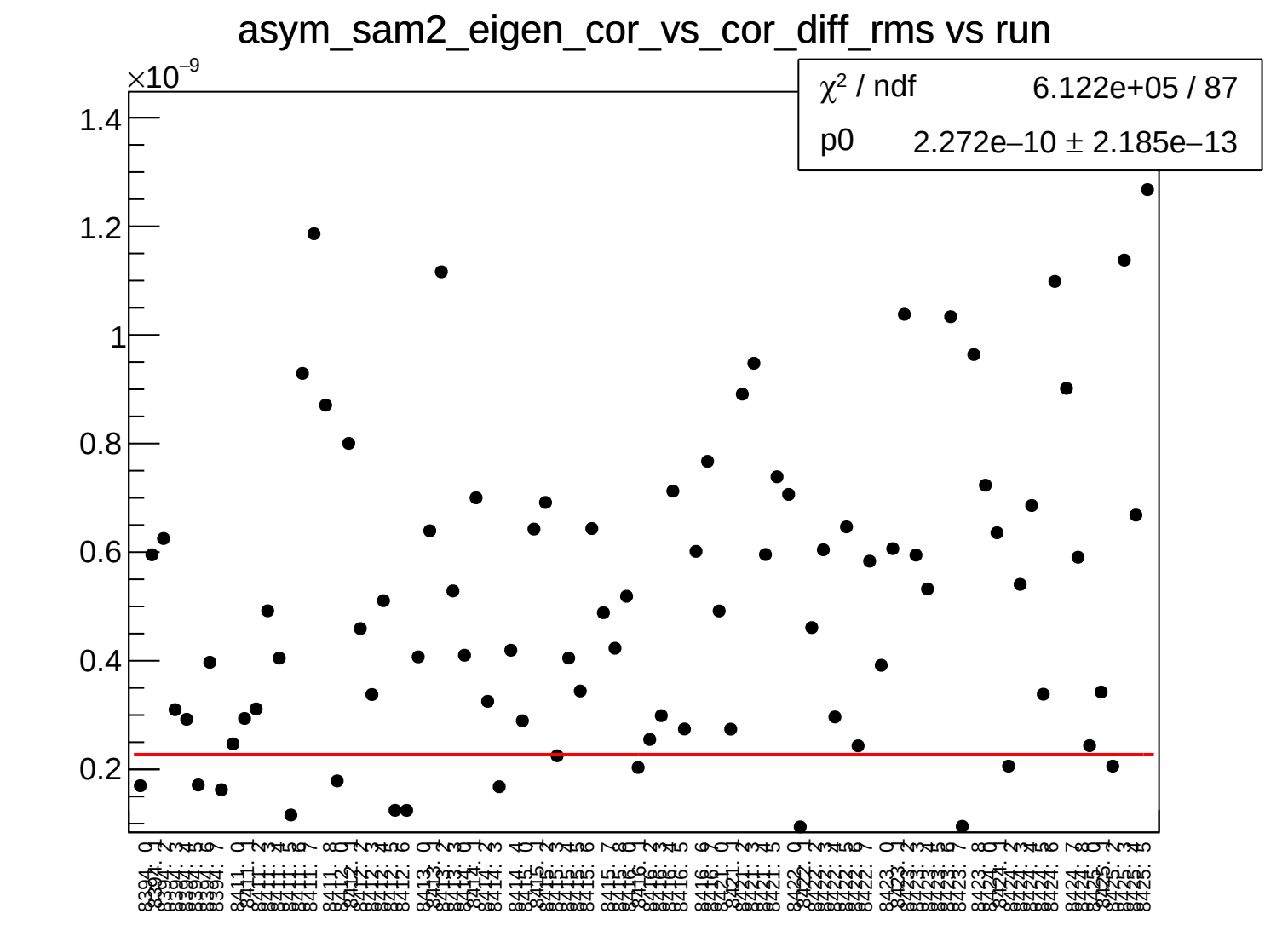

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.098e+04 / 87
p0 126.5 ± 0.09811
220
200
180
160
140
120
100

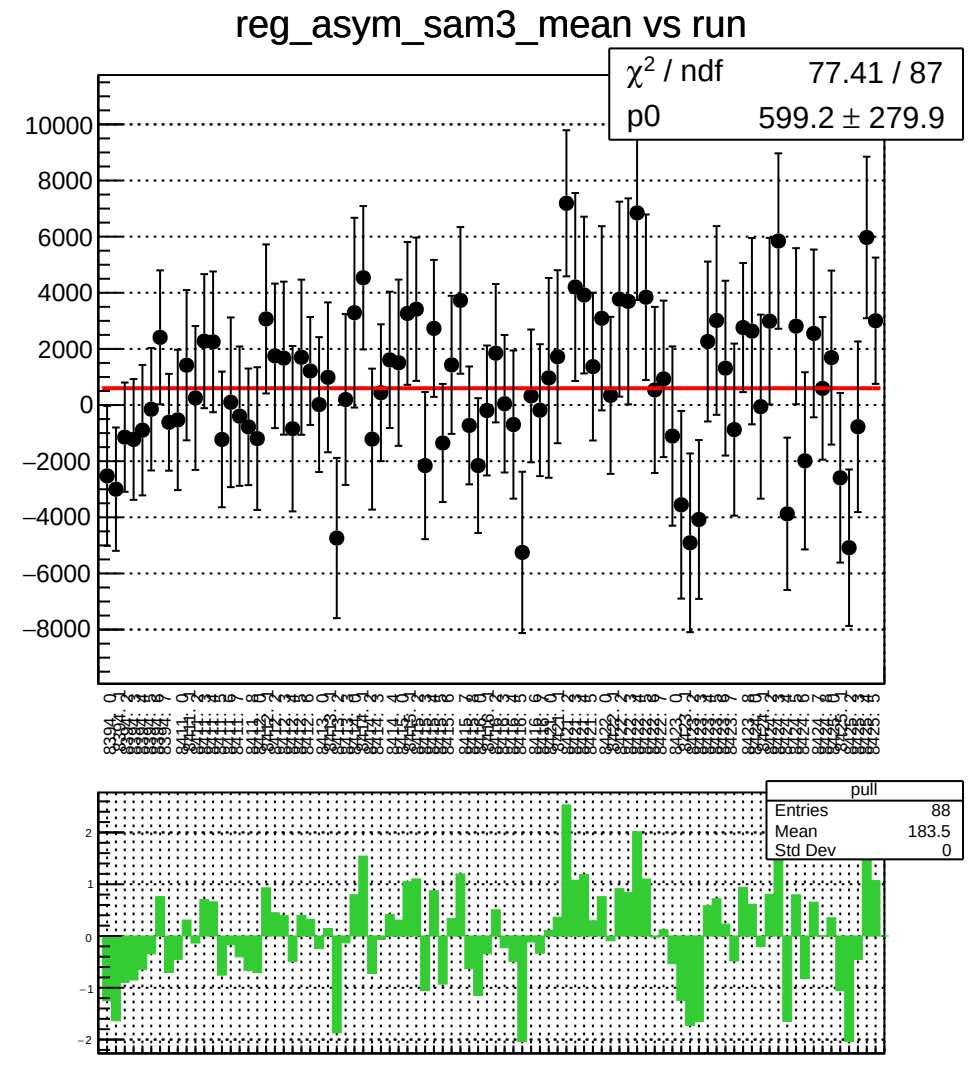

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.87 / 87
p0 0.3354 ± 0.1388
pull
Entries 88
Mean 1363
Std Dev 0

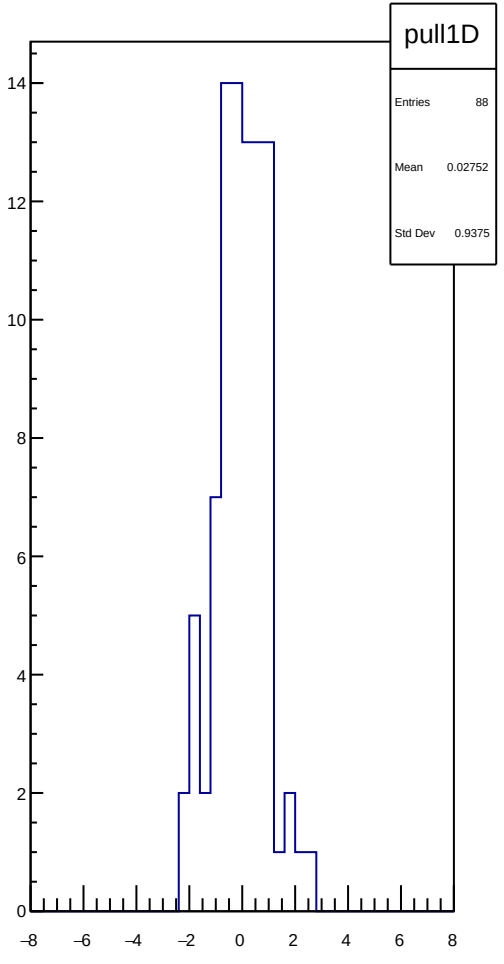

pull1D
Entries 88
Mean −0.004639
Std Dev 0.9346

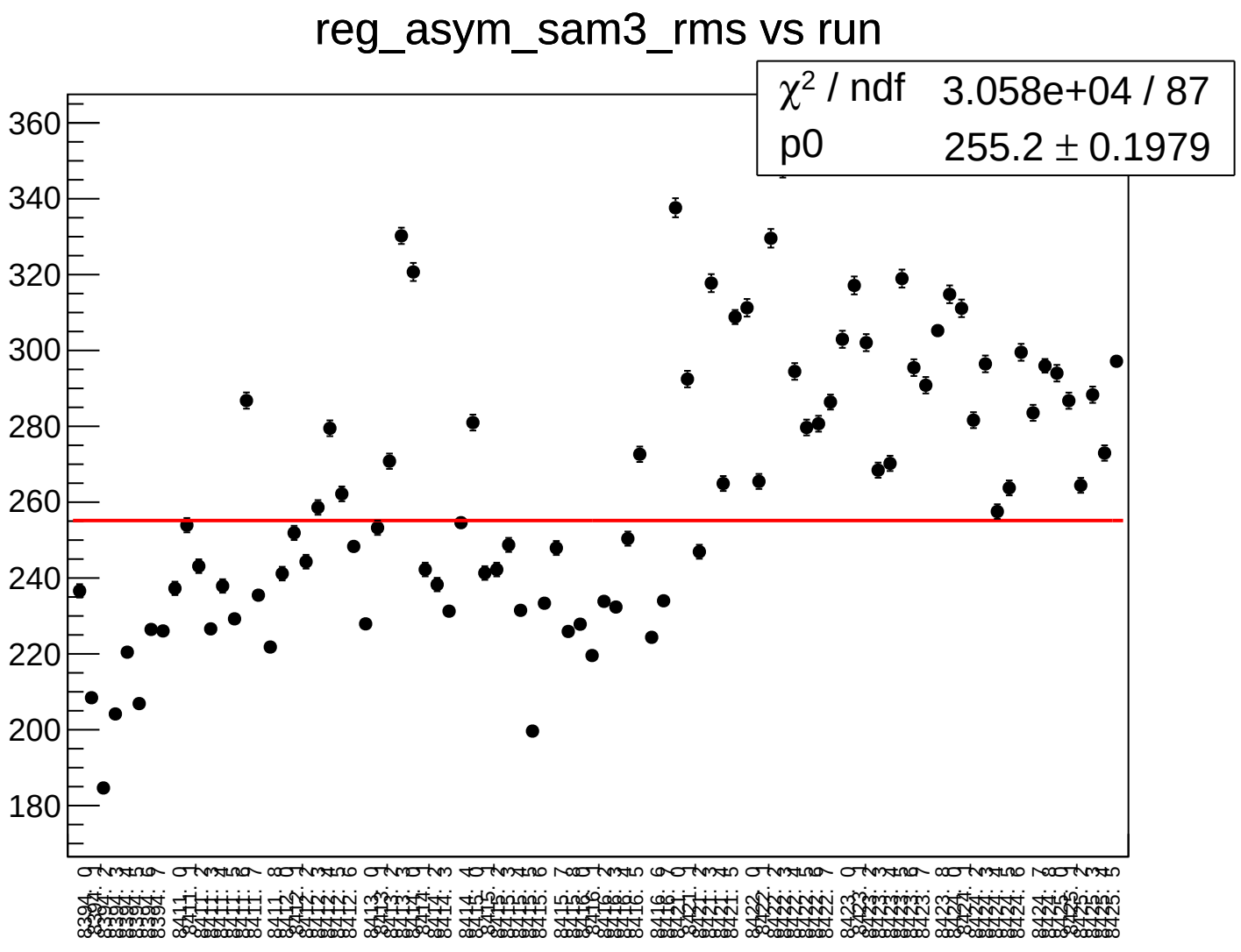

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.098e+04 / 87
p0 126.5 ± 0.09811
220
200
180
160
140
120
100

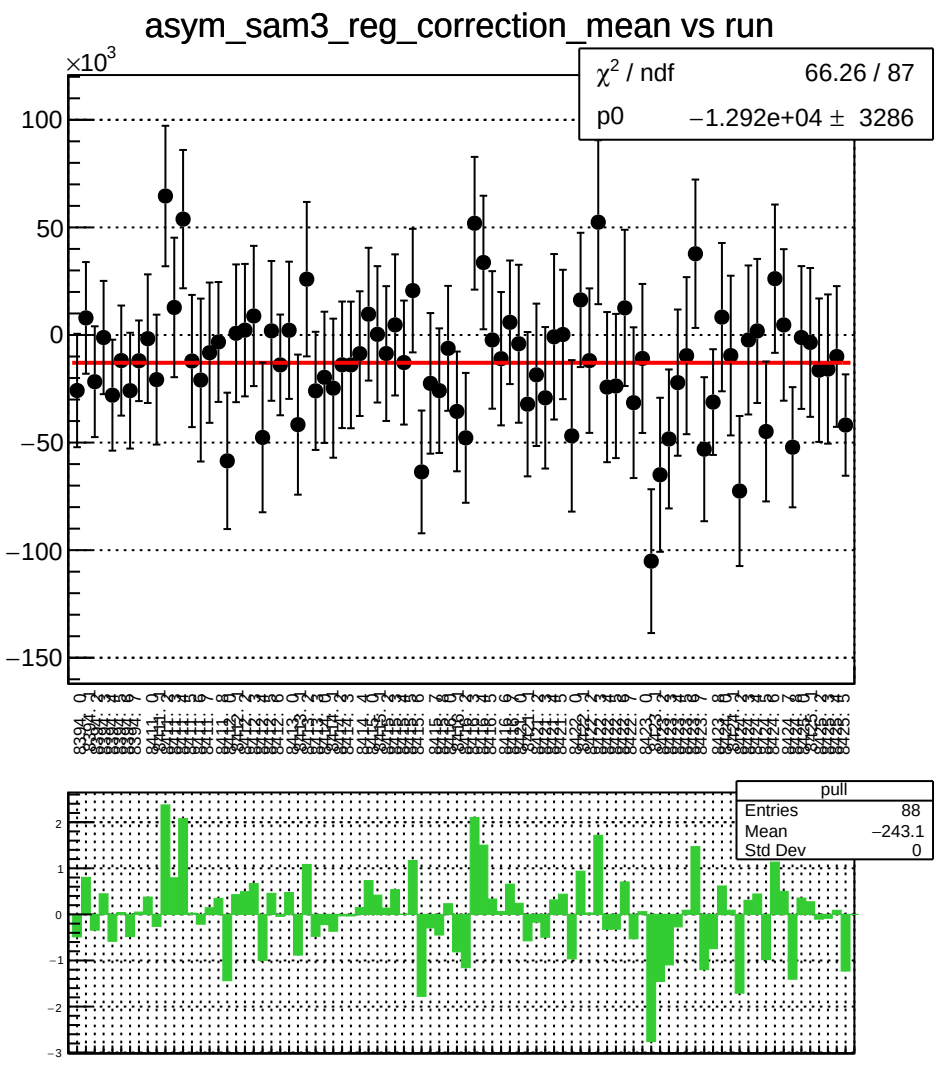

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.51 / 87
p0 4.497e−14 ± 3.091e−13
pull
Entries 88
Mean 19.52
Std Dev 0
pull1D
Entries 88
Mean 0.05988
Std Dev 1.056

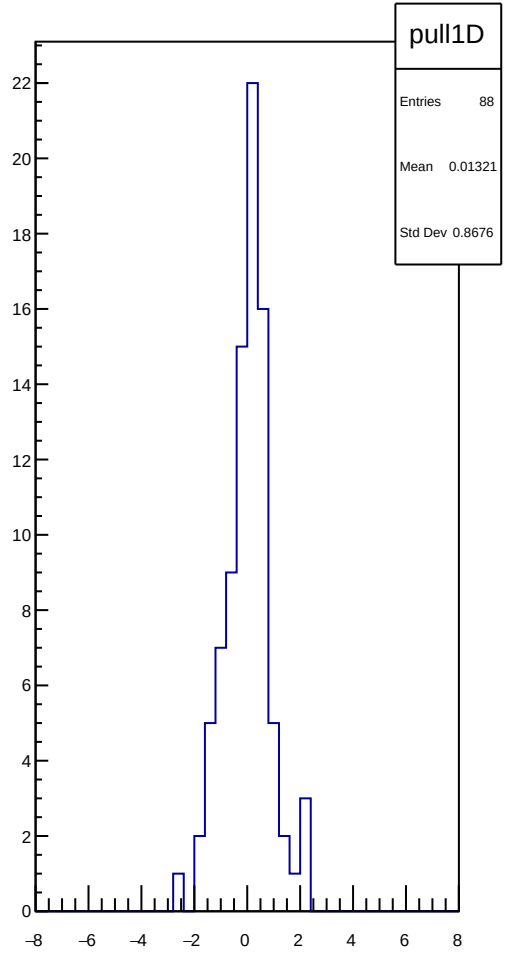

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.122e+05 / 87
p0 2.272e−10 ± 2.185e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

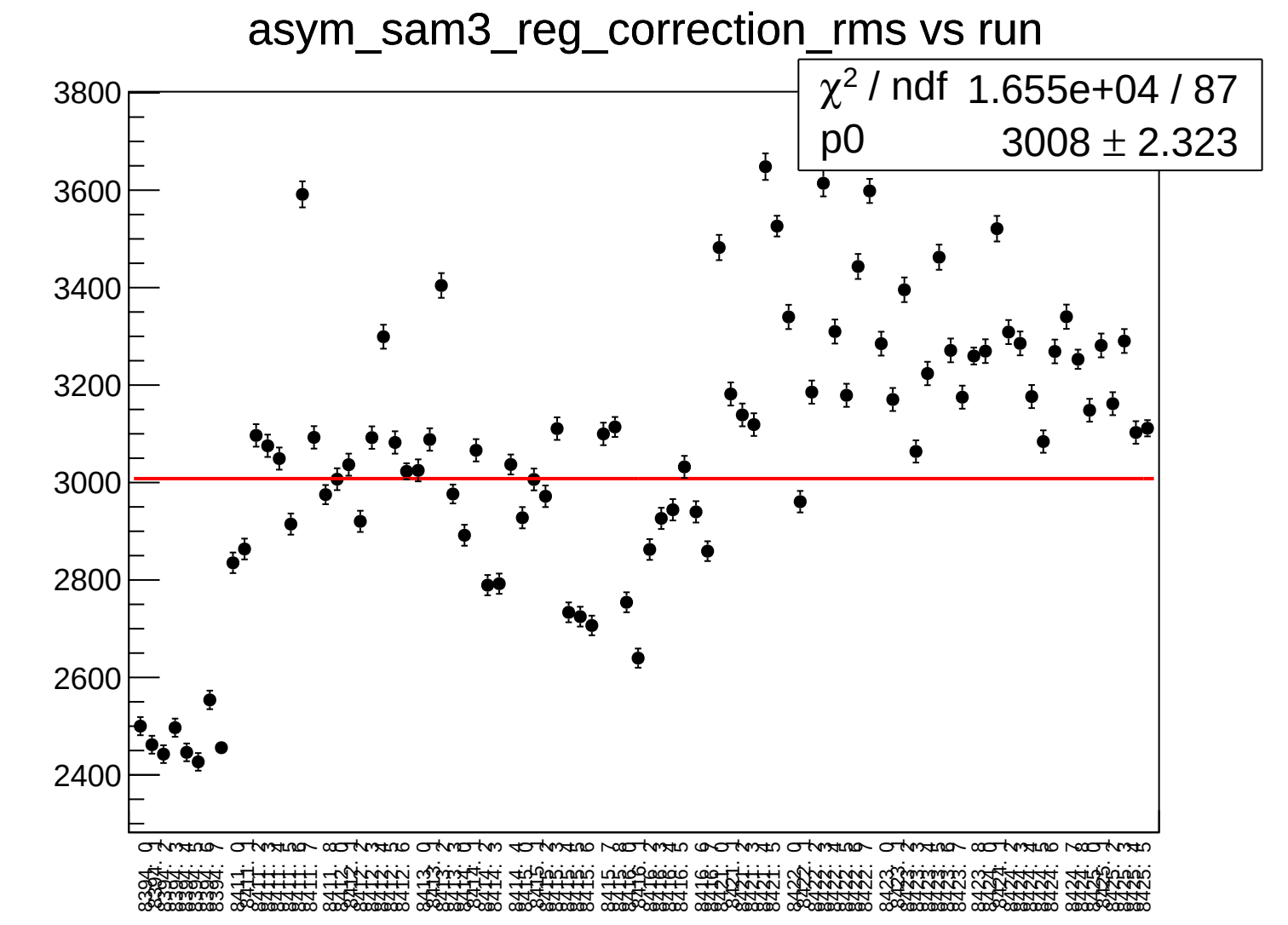

reg_asym_sam3_mean vs run
χ^2 / ndf 77.41 / 87
p0 599.2 ± 279.9
pull
Entries 88
Mean 183.5
Std Dev 0

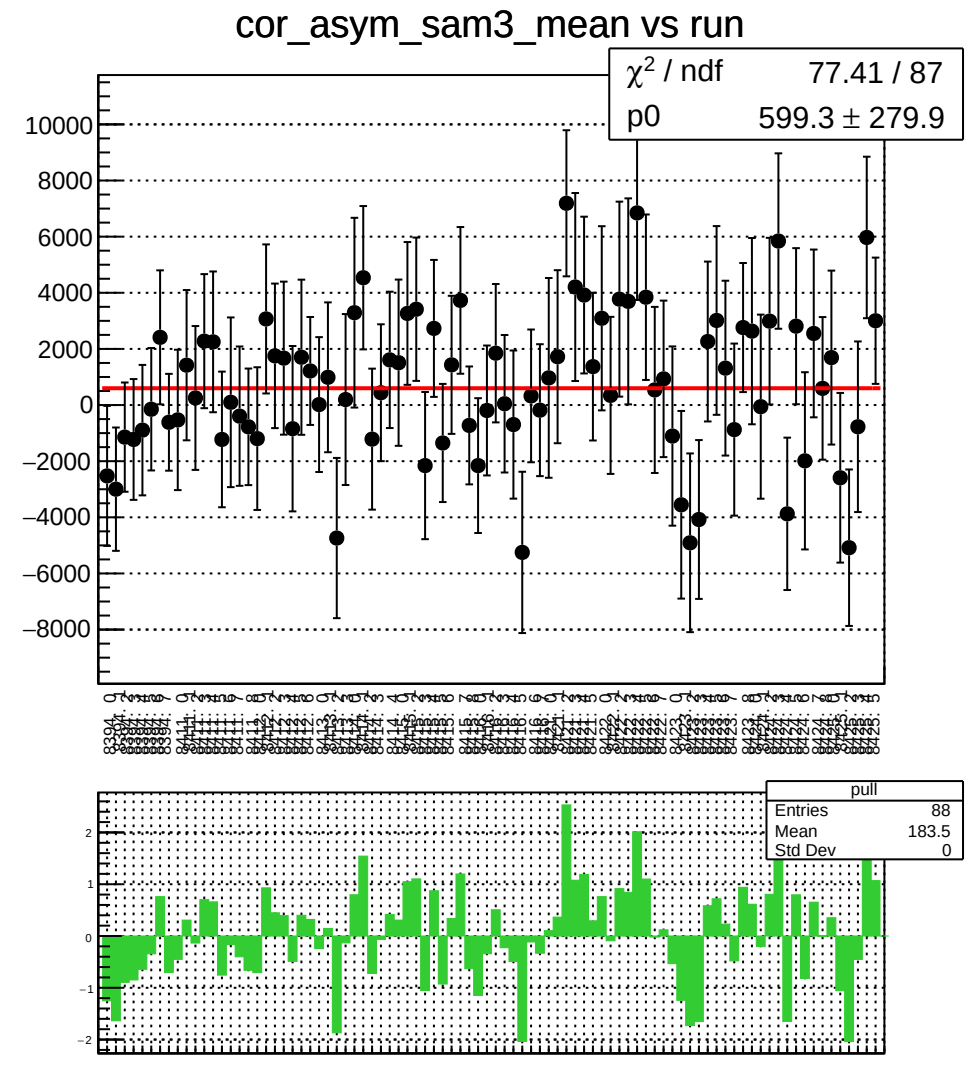

pull1D
Entries 88
Mean 0.02752
Std Dev 0.9375

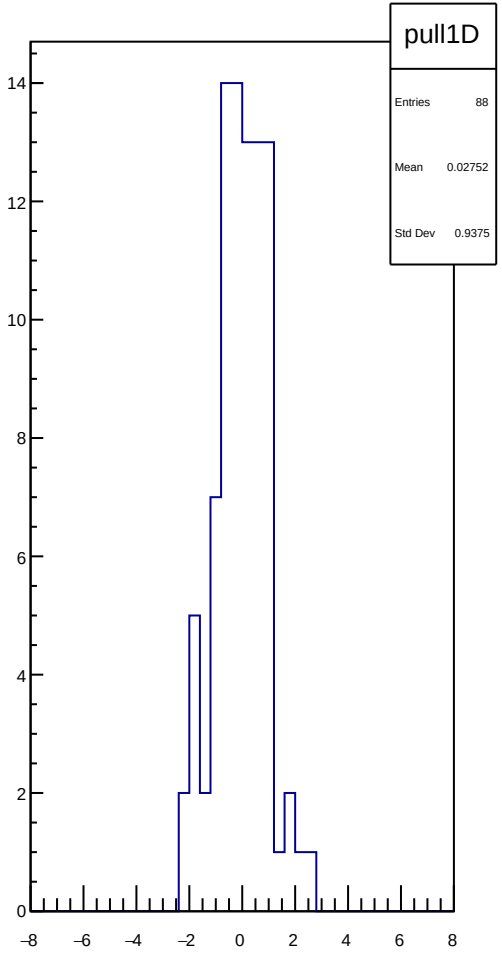

reg_asym_sam3_rms vs run
χ^2 / ndf 3.058e+04 / 87
p0 255.2 ± 0.1979
360
340
320
300
280
260
240
220
200
180

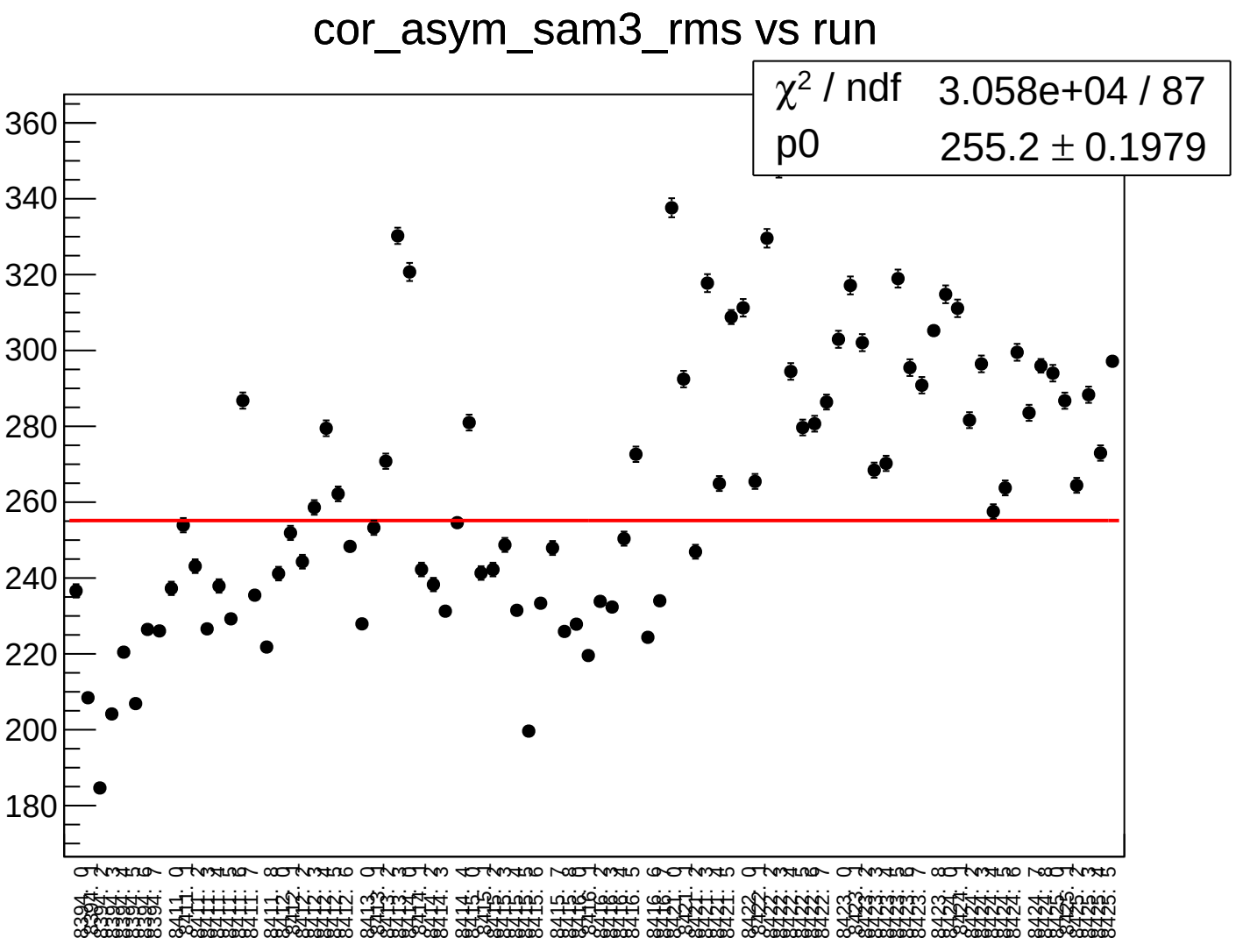

asym_sam3_reg_correction_mean vs run
×10^3
χ² / ndf 66.26 / 87
p0 −1.292e+04 ± 3286
100
50
0
−50
−100
−150
pull
Entries 88
Mean −243.1
Std Dev 0
2
1
0
−1
−2
−3

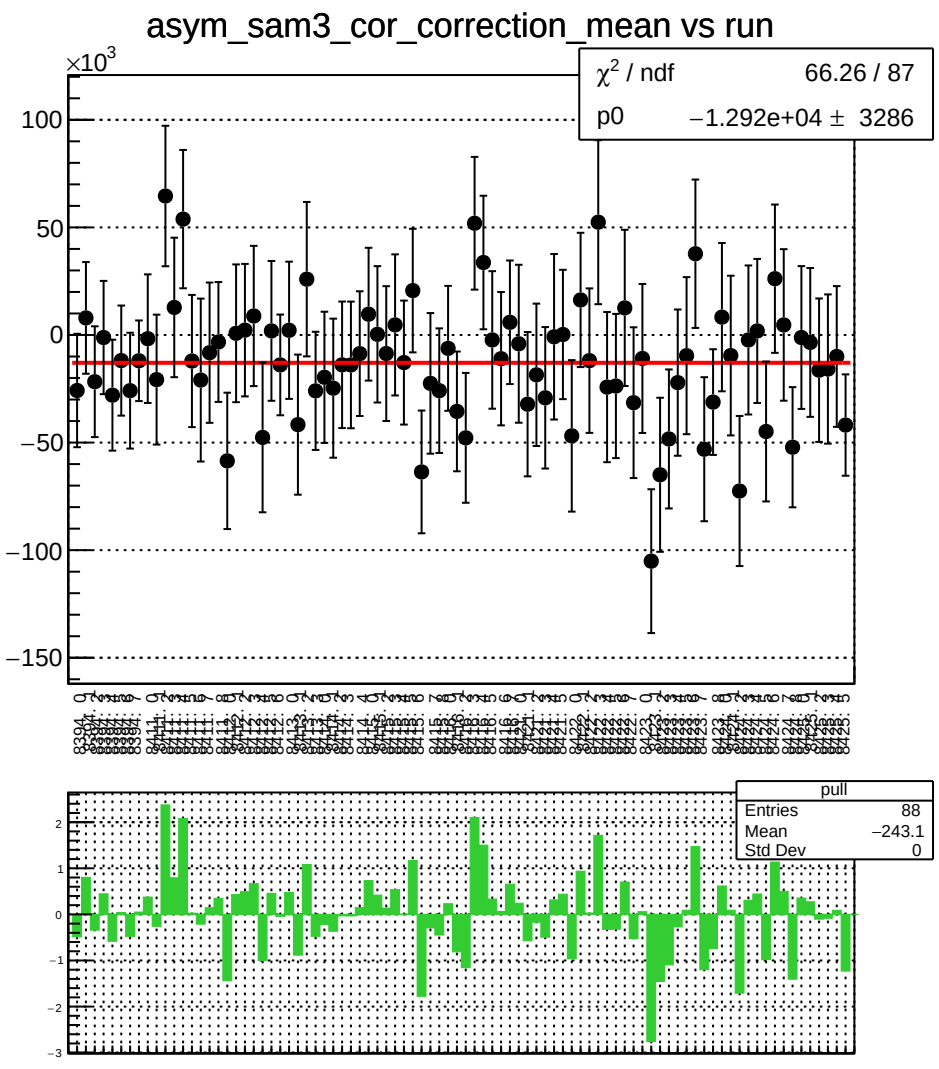

pull1D
Entries 88
Mean 0.01321
Std Dev 0.8676
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

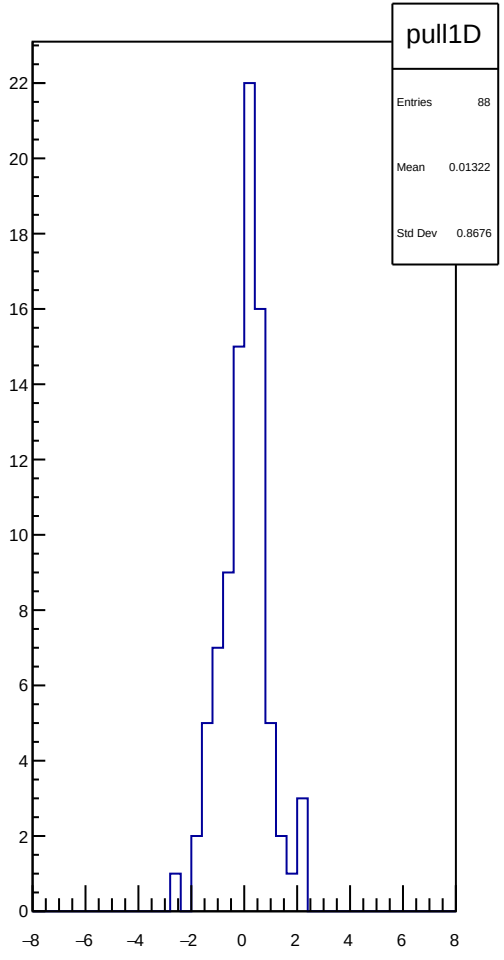

asym_sam3_reg_correction_rms vs run
χ² / ndf 1.655e+04 / 87
p0 3008 ± 2.323
3800
3600
3400
3200
3000
2800
2600
2400

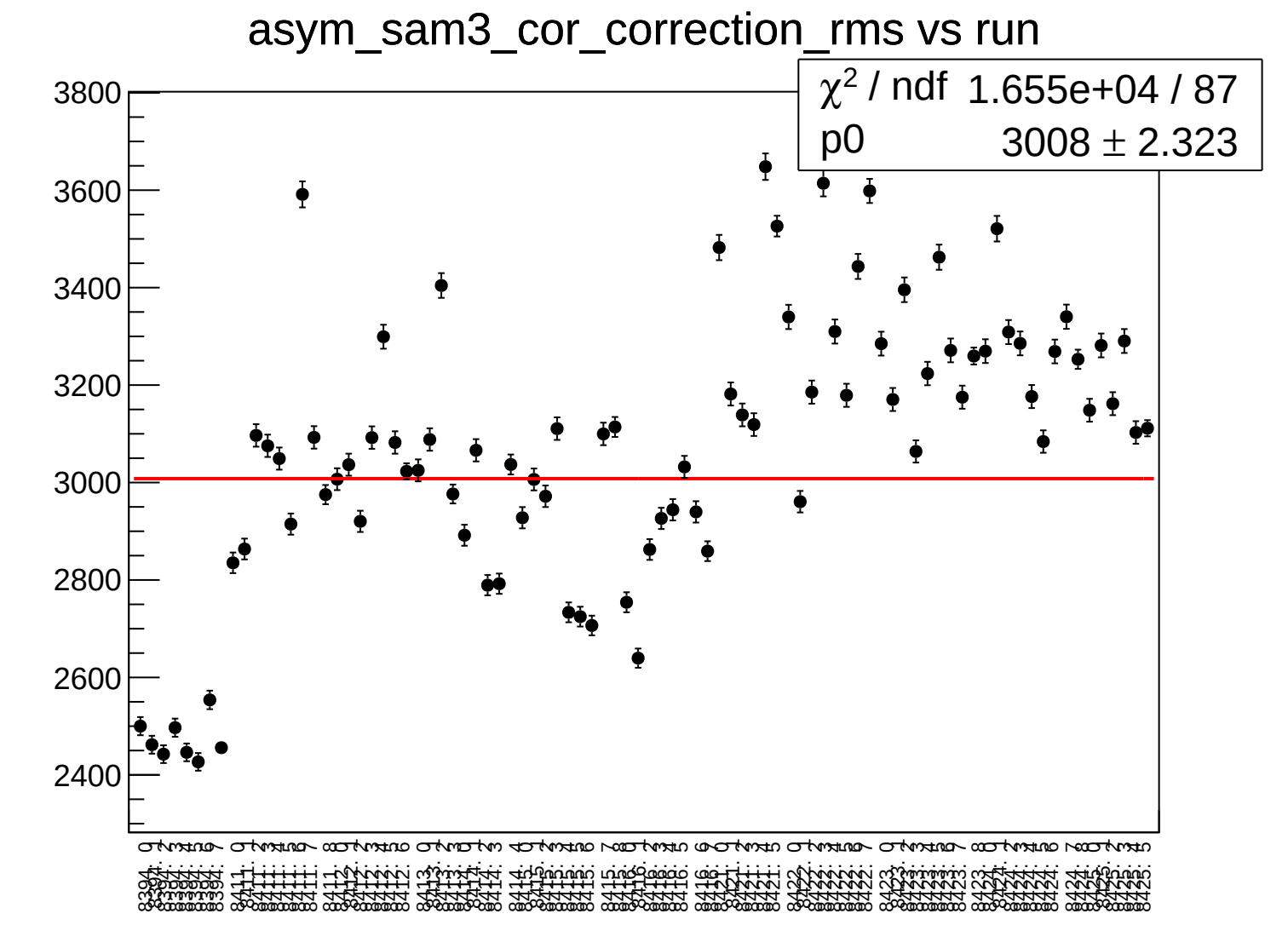

cor_asym_sam3_mean vs run
χ^2 / ndf 77.41 / 87
p0 599.3 ± 279.9
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 88
Mean 183.5
Std Dev 0
2
1
0
−1
−2

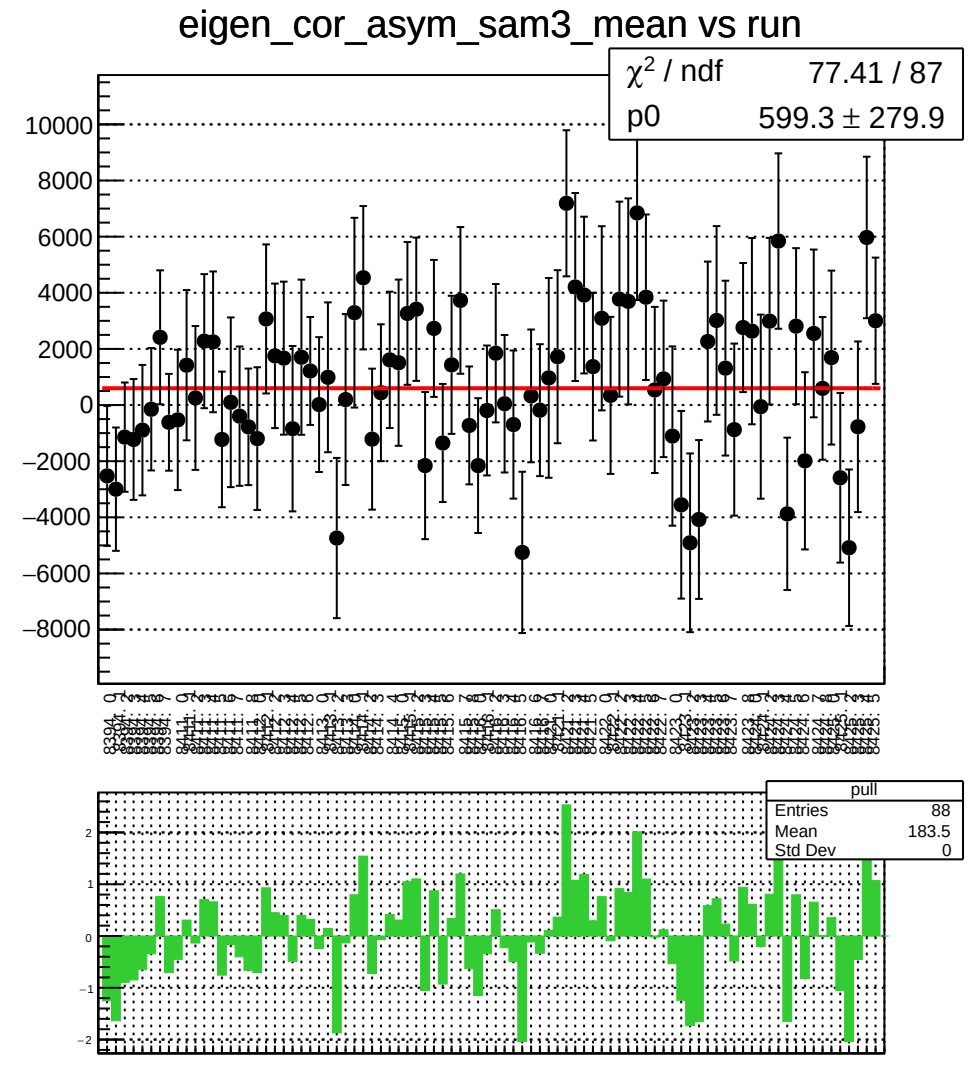

pull1D
Entries 88
Mean 0.02752
Std Dev 0.9375
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

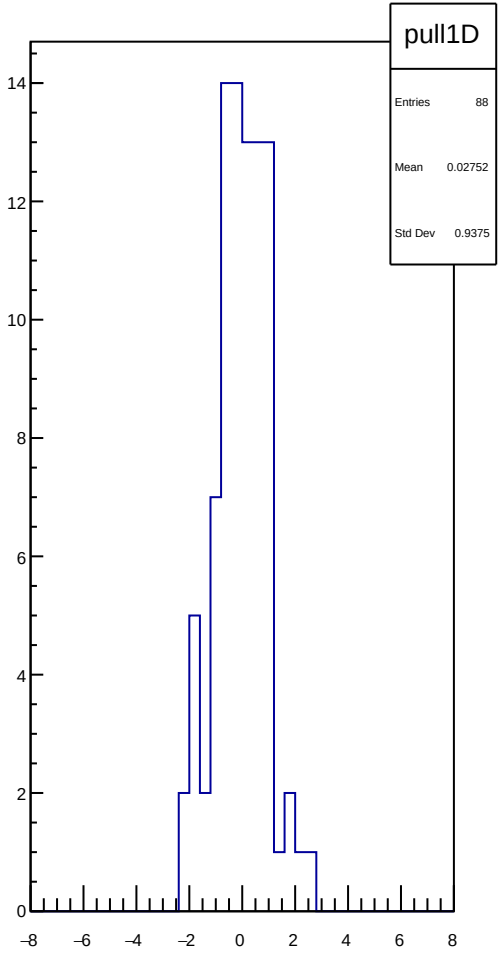

cor_asym_sam3_rms vs run
χ^2 / ndf 3.058e+04 / 87
p0 255.2 ± 0.1979
360
340
320
300
280
260
240
220
200
180

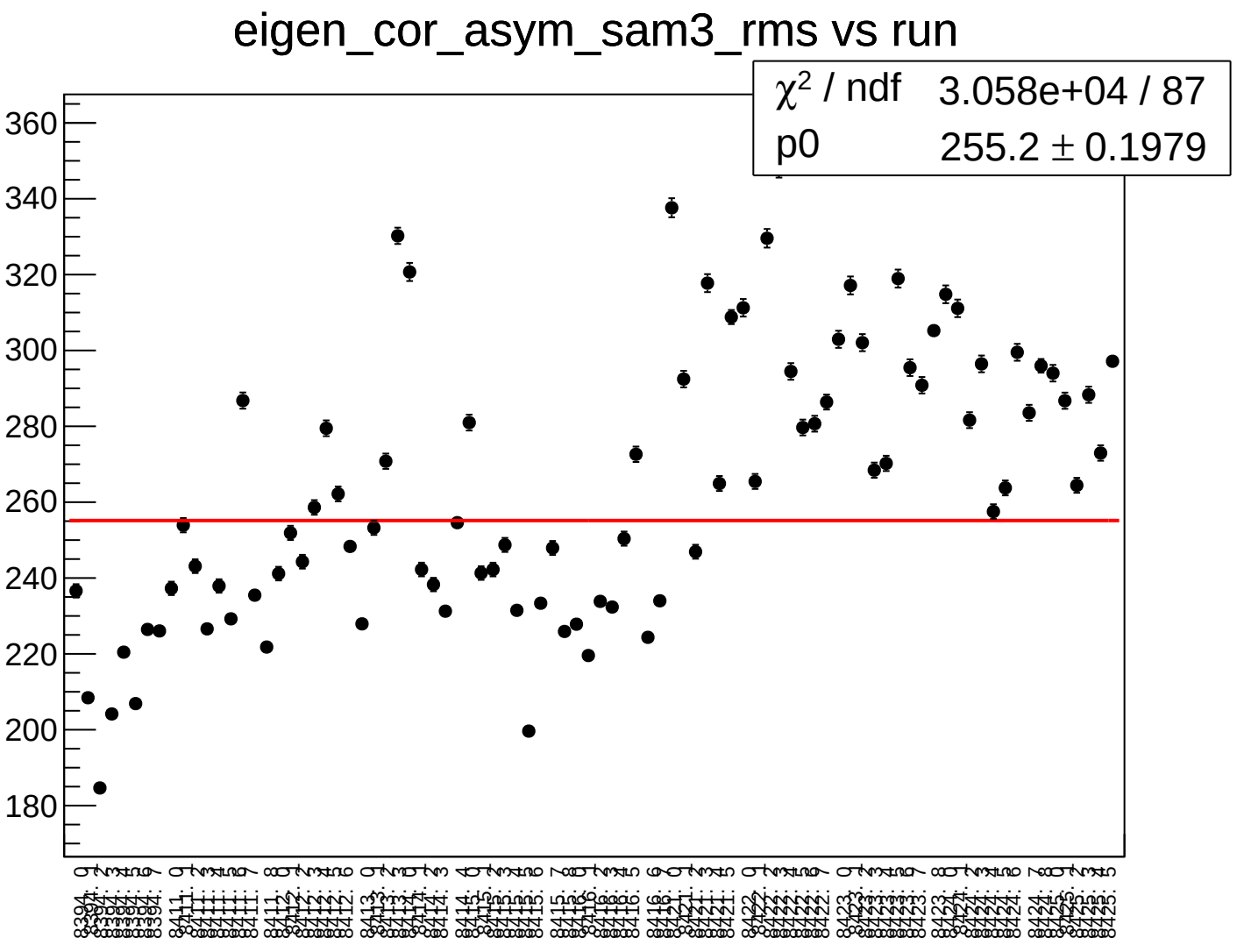

asym_sam3_cor_correction_mean vs run
×10^3
χ² / ndf 66.26 / 87
p0 −1.292e+04 ± 3286
100
50
0
−50
−100
−150
pull
Entries 88
Mean −243.1
Std Dev 0
2
1
0
−1
−2
−3

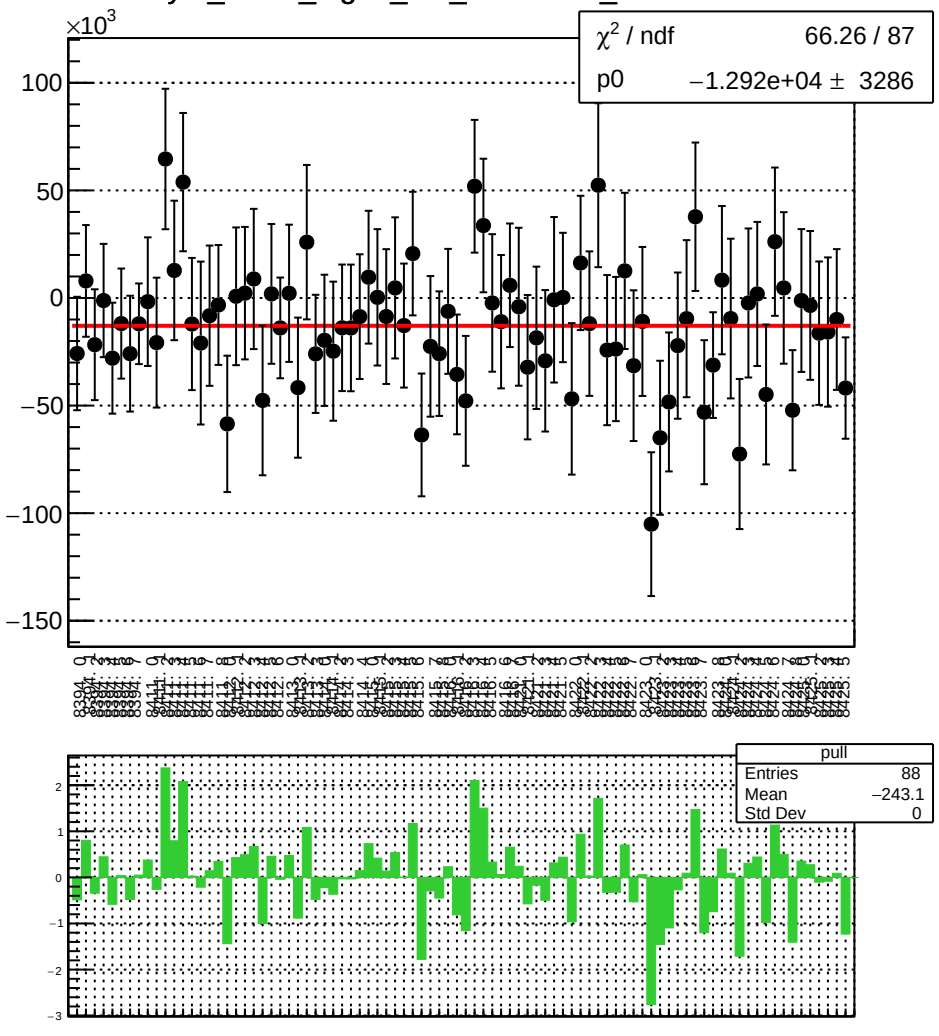

pull1D
Entries 88
Mean 0.01322
Std Dev 0.8676
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

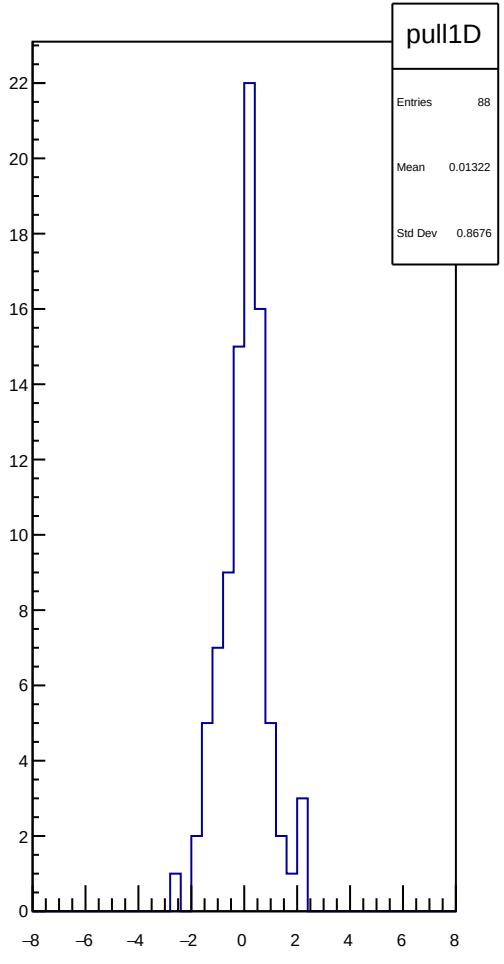

asym_sam3_cor_correction_rms vs run
χ² / ndf 1.655e+04 / 87
p0 3008 ± 2.323
3800
3600
3400
3200
3000
2800
2600
2400

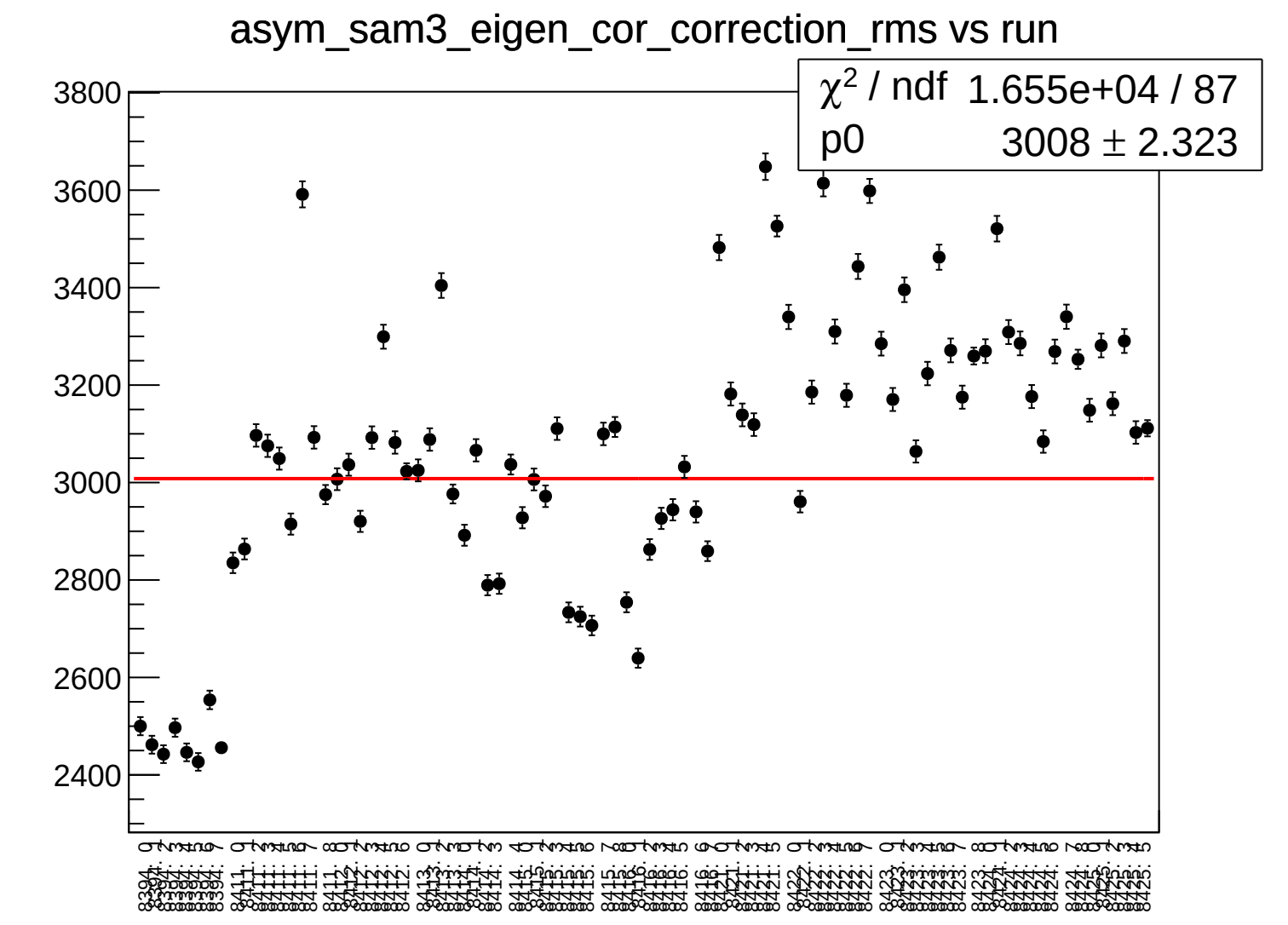

eigen_cor_asym_sam3_mean vs run
χ² / ndf 77.41 / 87
p0 599.3 ± 279.9
pull
Entries 88
Mean 183.5
Std Dev 0

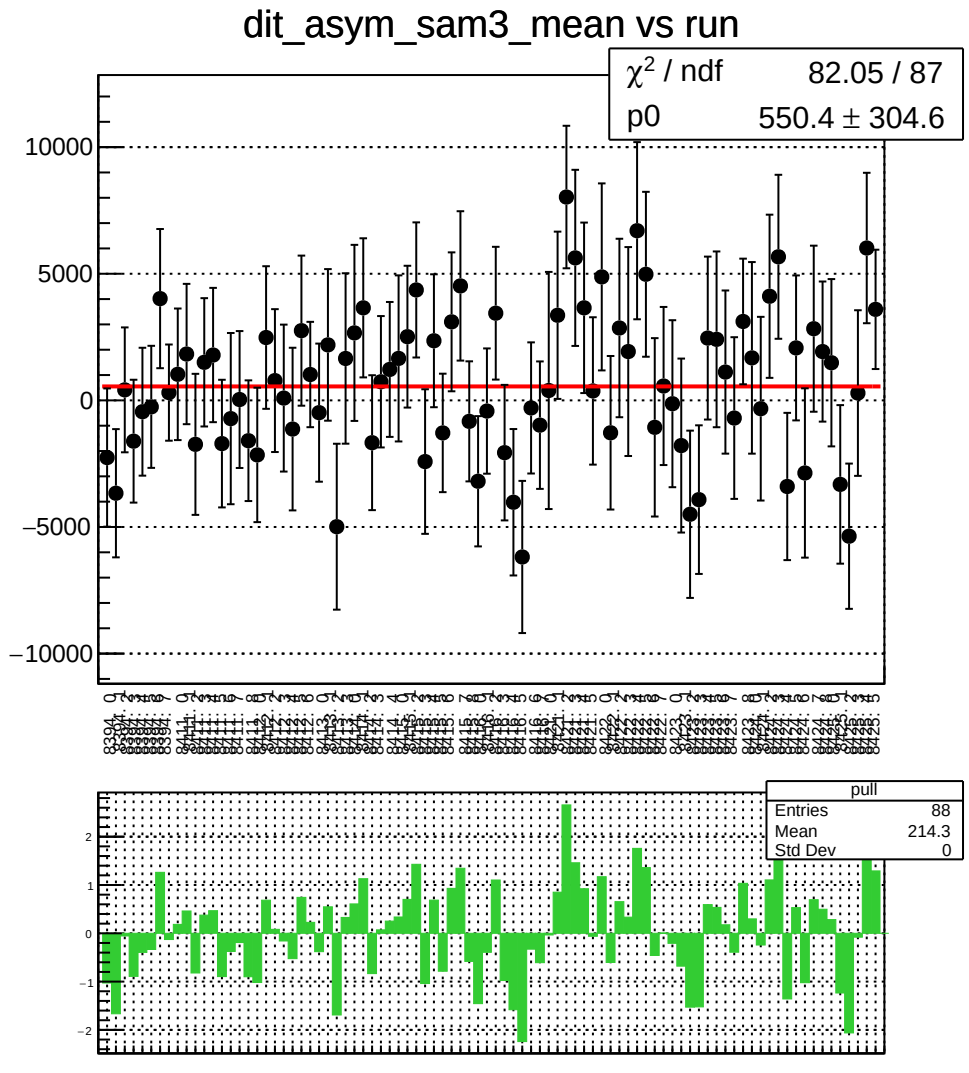

pull1D
Entries 88
Mean 0.02752
Std Dev 0.9375

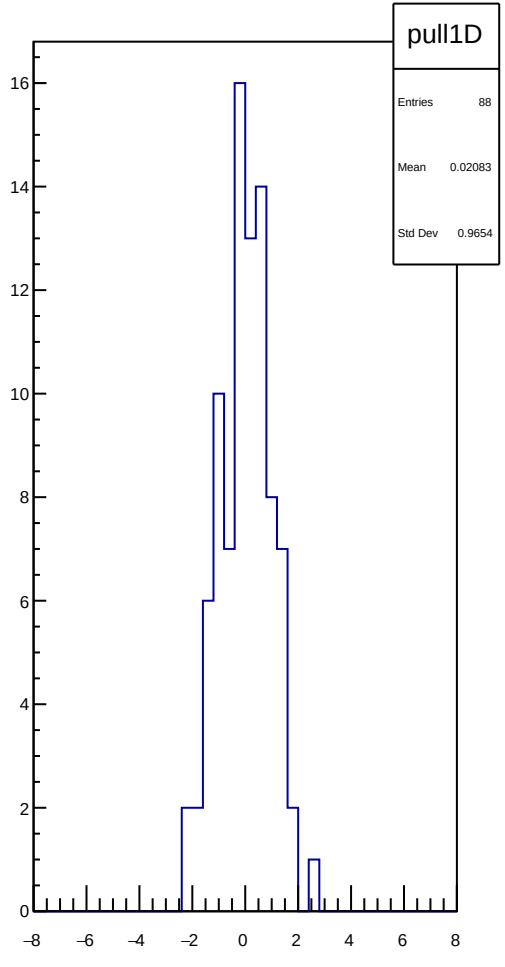

eigen_cor_asym_sam3_rms vs run
χ^2 / ndf 3.058e+04 / 87
p0 255.2 ± 0.1979
360
340
320
300
280
260
240
220
200
180

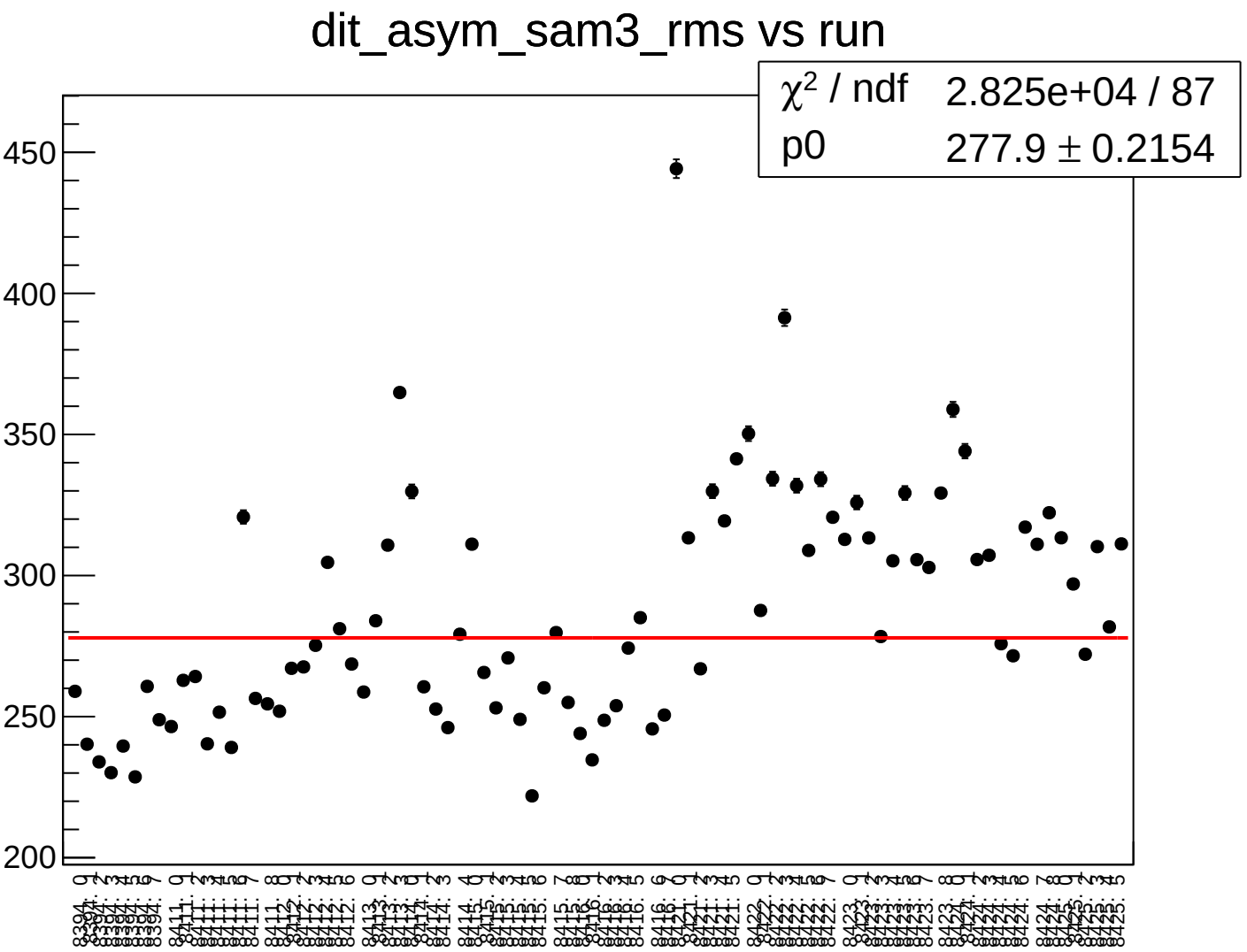

asym_sam3_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 66.26 / 87
p0 −1.292e+04 ± 3286
100
50
0
−50
−100
−150
pull
Entries 88
Mean −243.1
Std Dev 0
2
1
0
−1
−2
−3

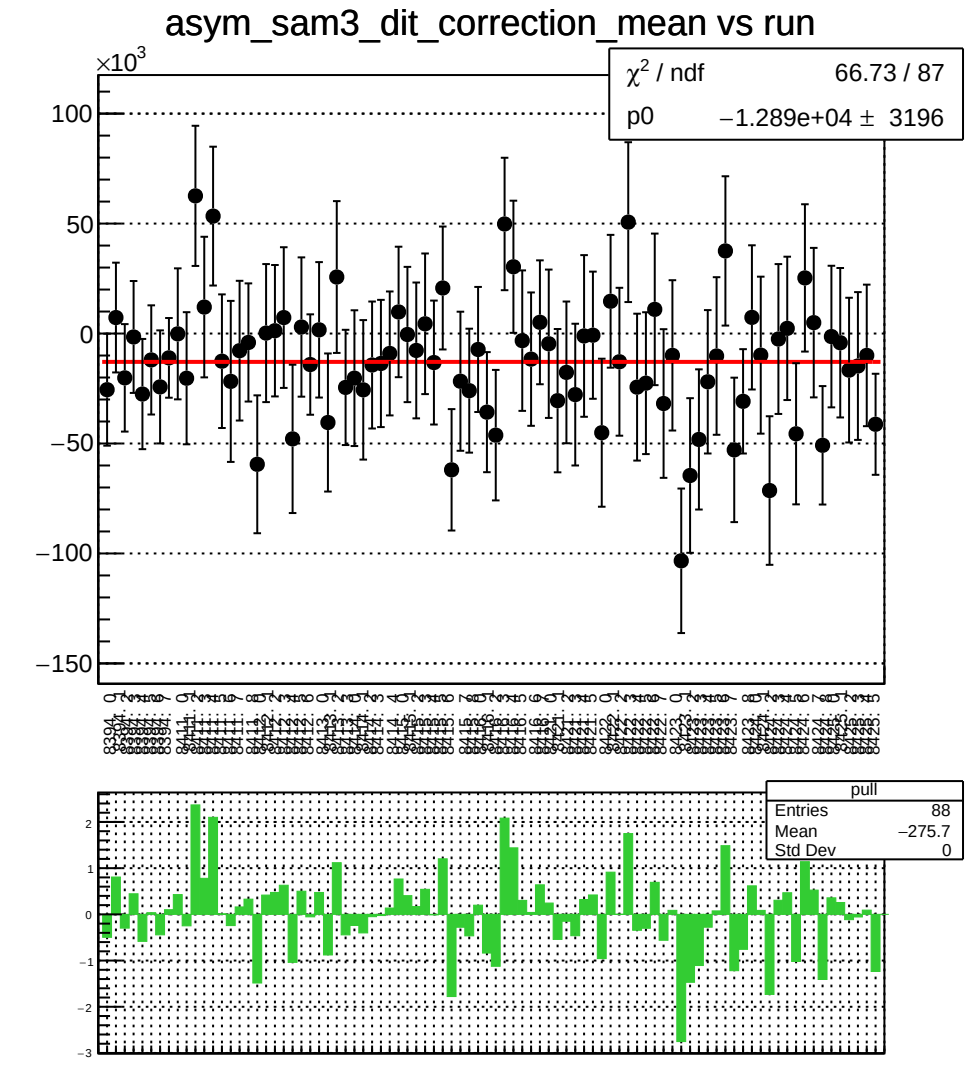

pull1D
Entries 88
Mean 0.01322
Std Dev 0.8676
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

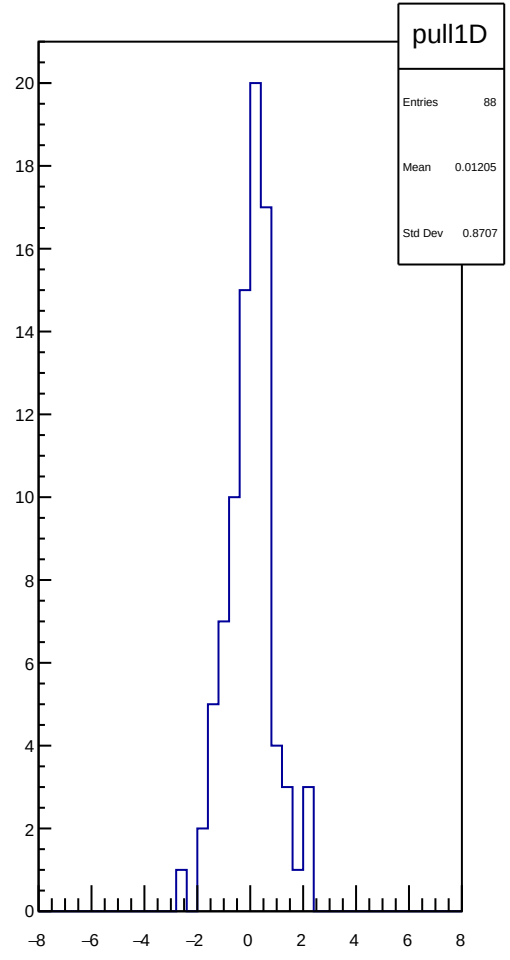

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 1.655e+04 / 87
p0 3008 ± 2.323
3800
3600
3400
3200
3000
2800
2600
2400

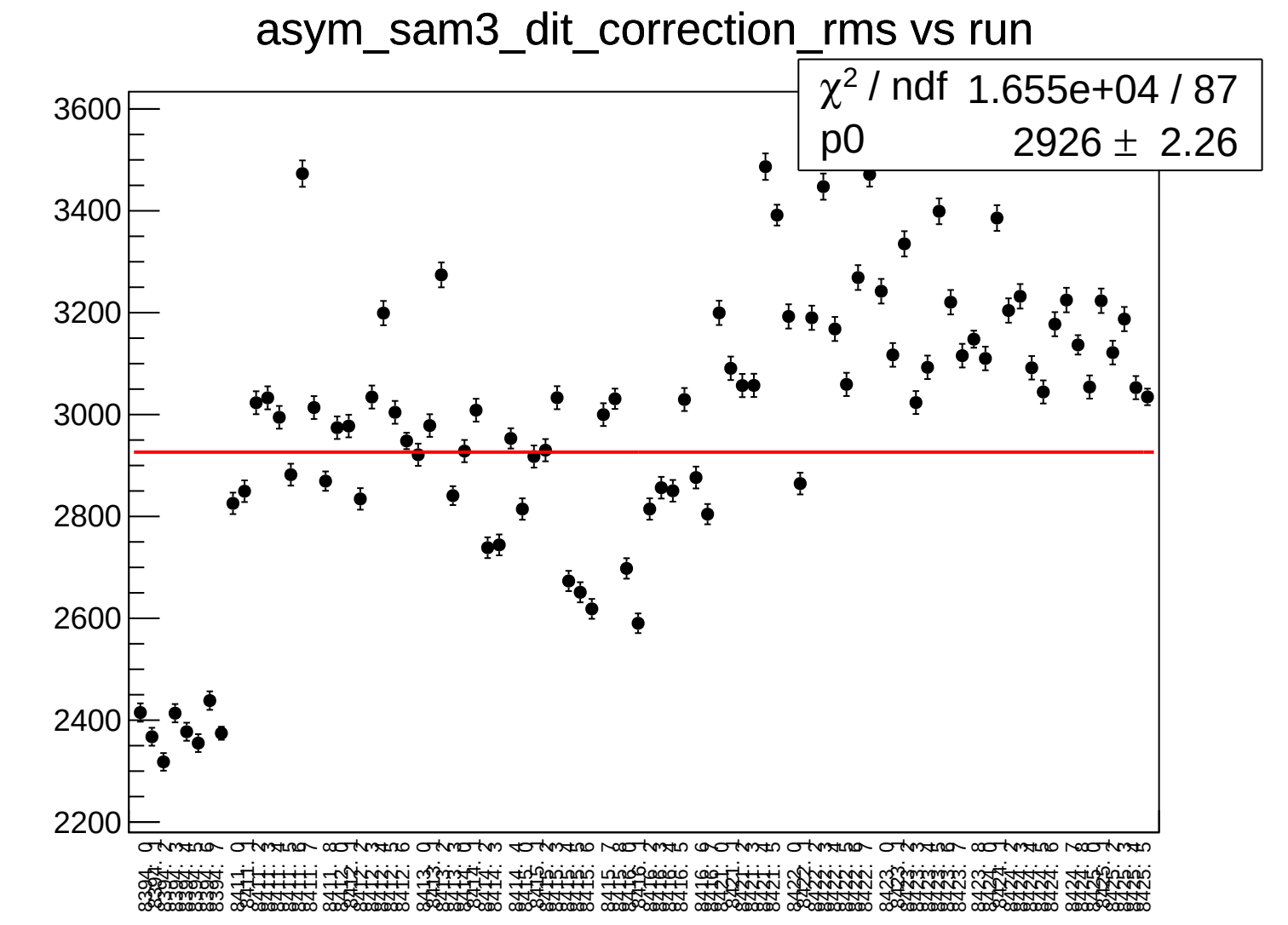

dit_asym_sam3_mean vs run
χ² / ndf 82.05 / 87
p0 550.4 ± 304.6
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 214.3
Std Dev 0
2
1
0
−1
−2

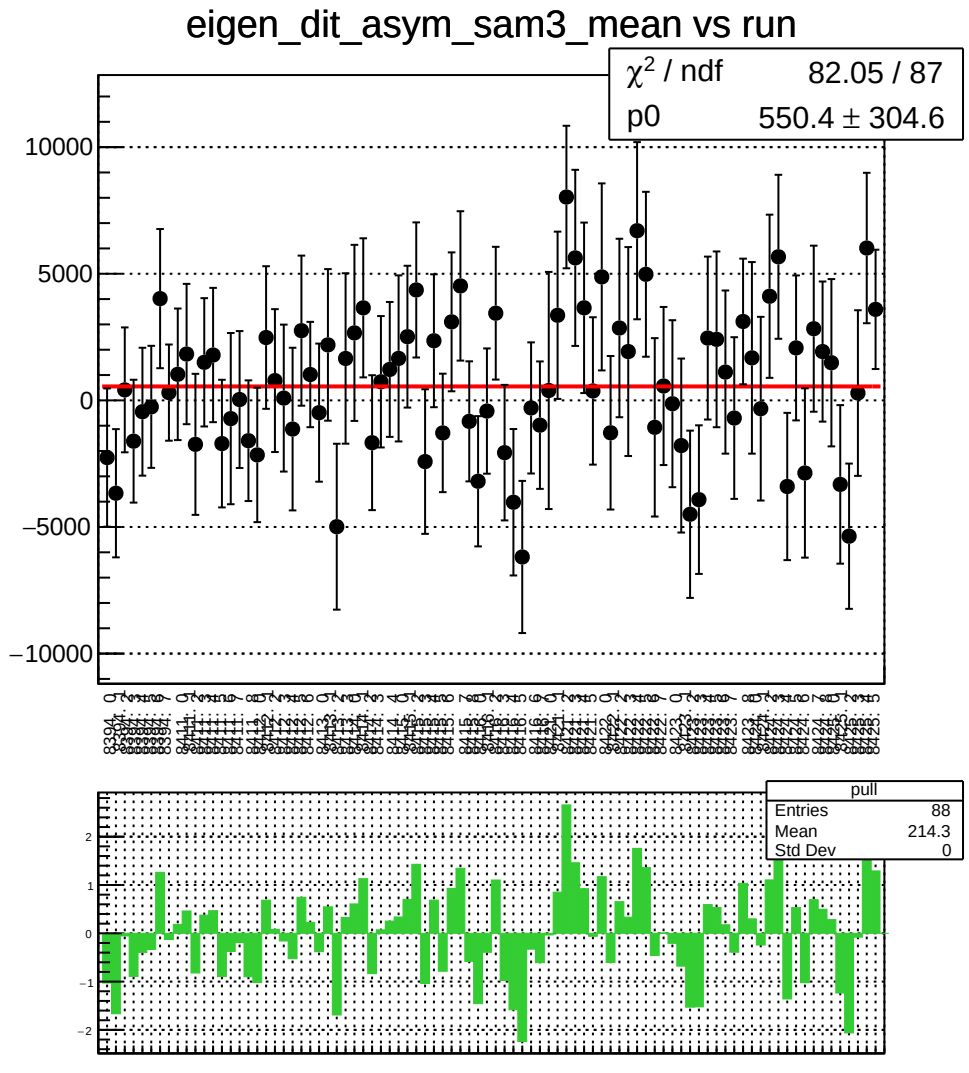

pull1D
Entries 88
Mean 0.02083
Std Dev 0.9654
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

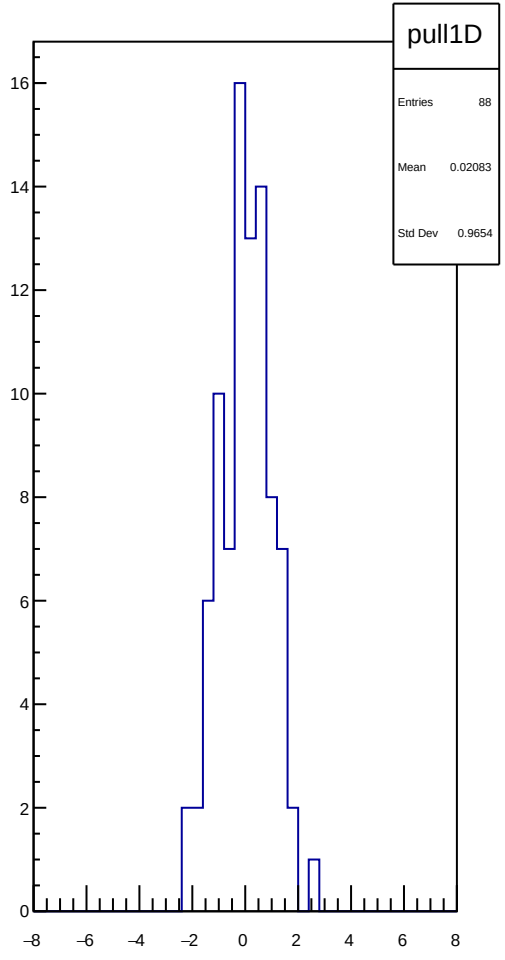

dit_asym_sam3_rms vs run
χ² / ndf 2.825e+04 / 87
p0 277.9 ± 0.2154
450
400
350
300
250
200

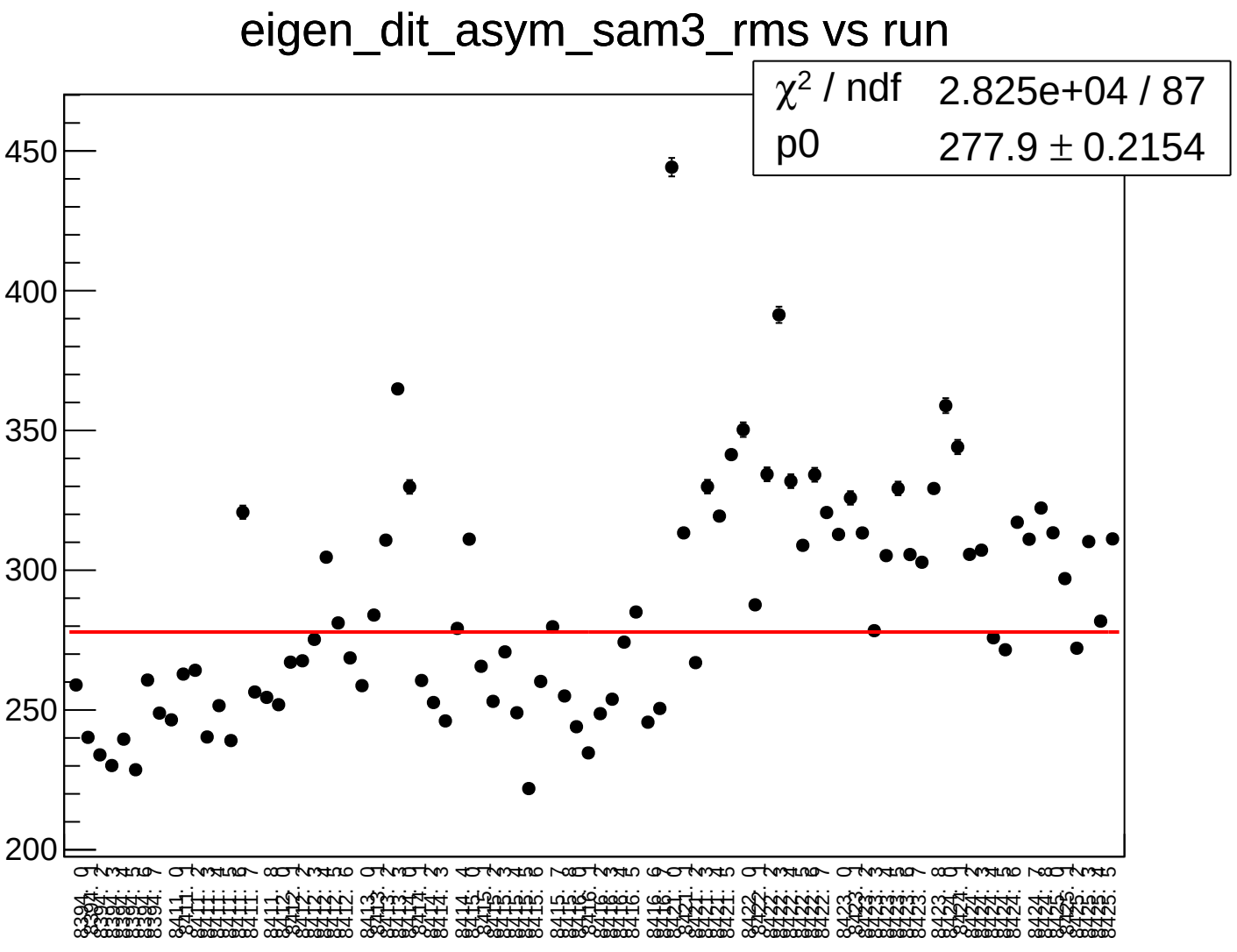

asym_sam3_dit_correction_mean vs run
×10^3
χ² / ndf 66.73 / 87
p0 −1.289e+04 ± 3196
100
50
0
−50
−100
−150
pull
Entries 88
Mean −275.7
Std Dev 0
2
1
0
−1
−2
−3

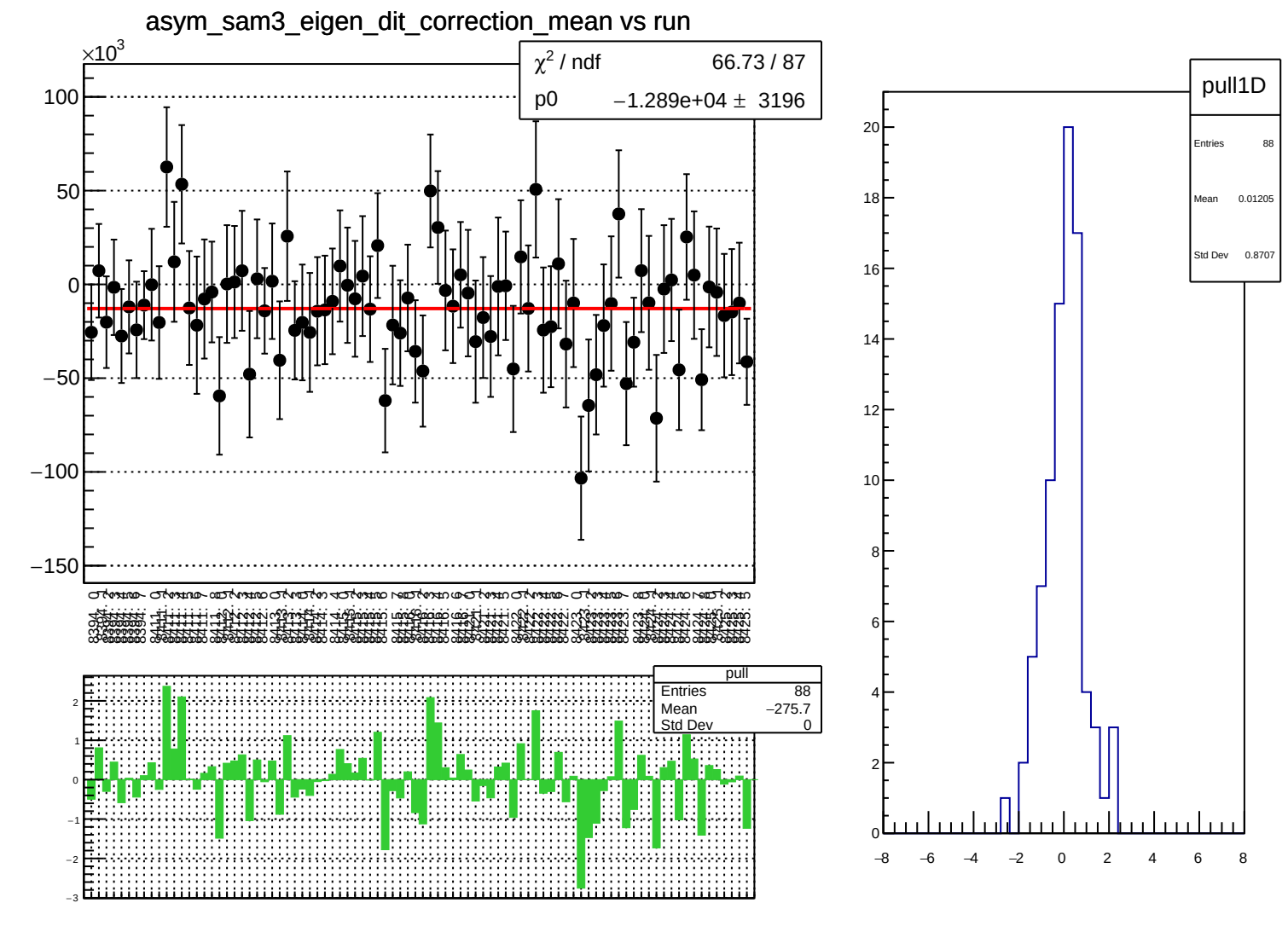

pull1D
Entries 88
Mean 0.01205
Std Dev 0.8707
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

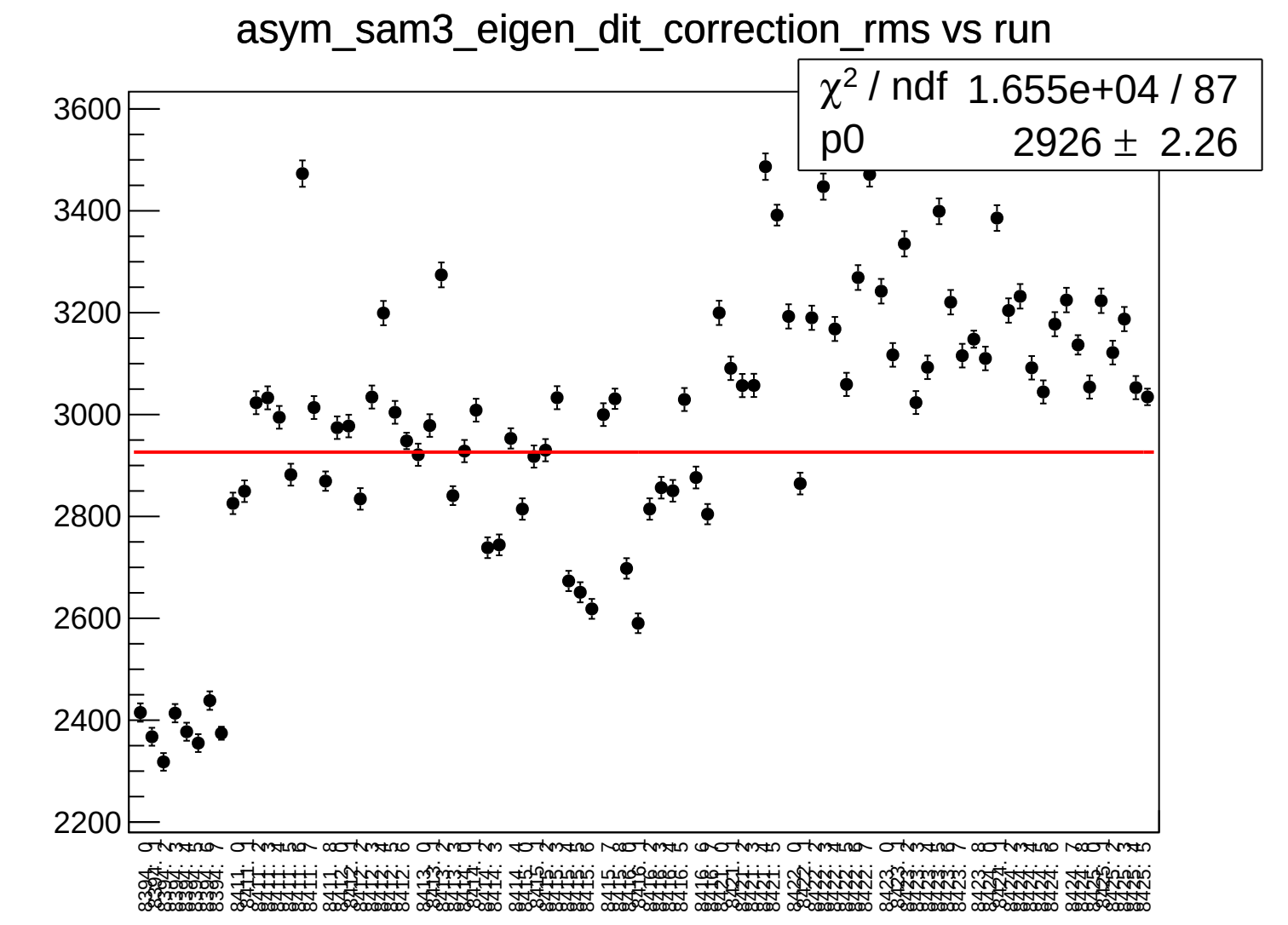

asym_sam3_dit_correction_rms vs run
χ² / ndf 1.655e+04 / 87
p0 2926 ± 2.26
3600
3400
3200
3000
2800
2600
2400
2200

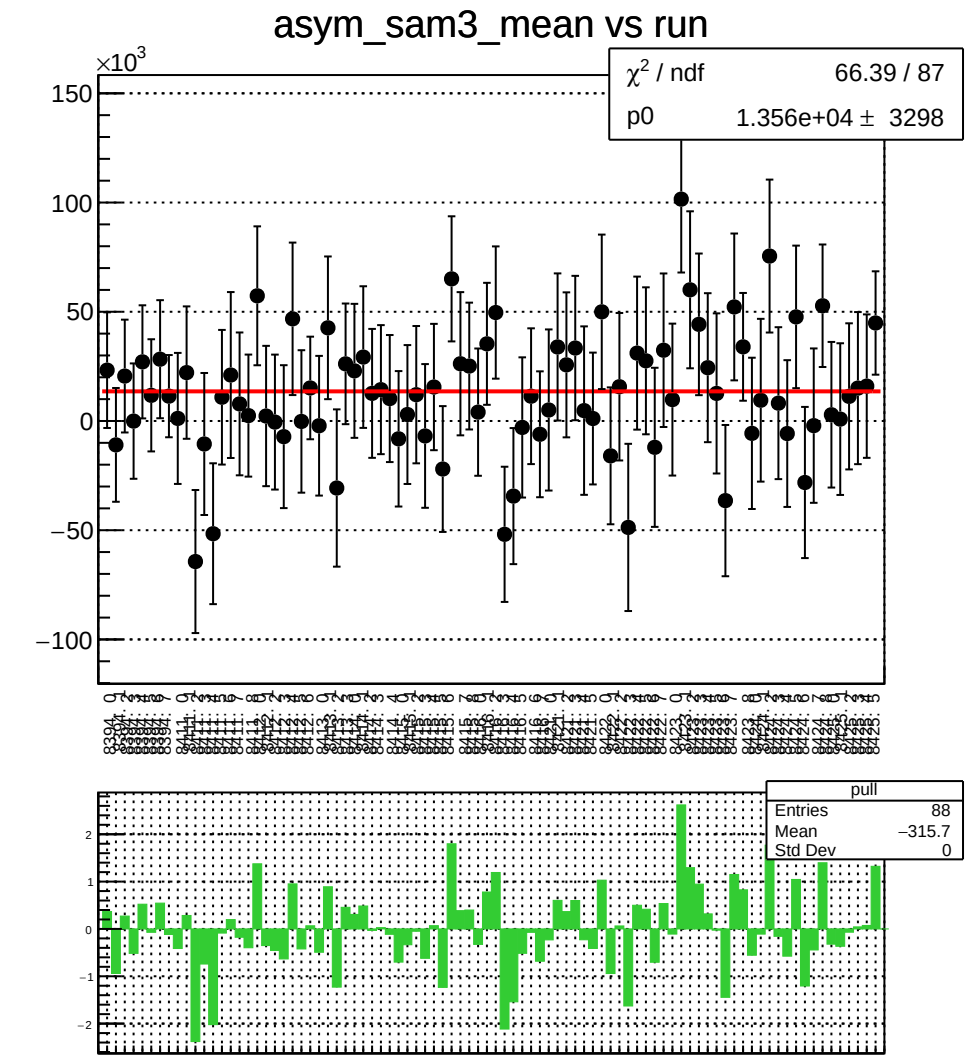

eigen_dit_asym_sam3_mean vs run
χ² / ndf 82.05 / 87
p0 550.4 ± 304.6
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 214.3
Std Dev 0
2
1
0
−1
−2

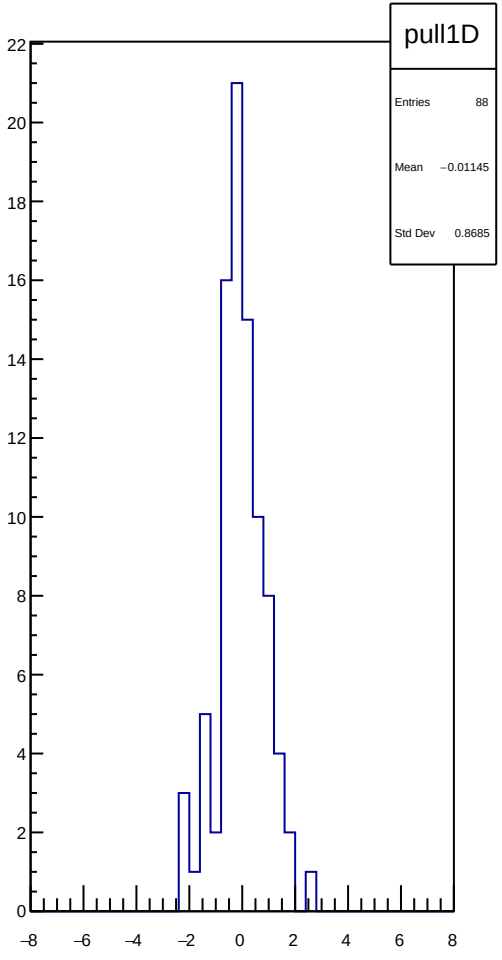

pull1D
Entries 88
Mean 0.02083
Std Dev 0.9654
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

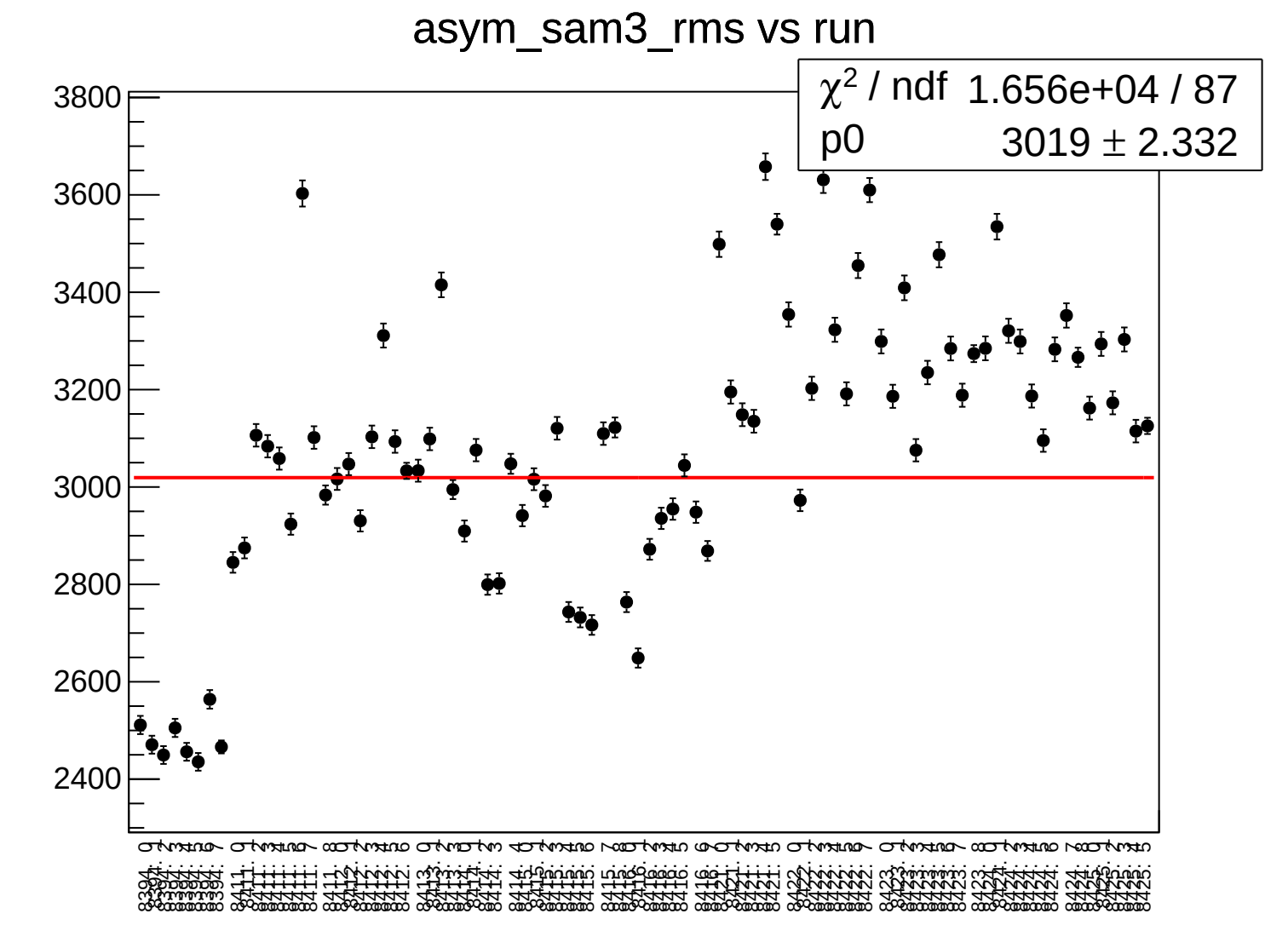

eigen_dit_asym_sam3_rms vs run
χ² / ndf 2.825e+04 / 87
p0 277.9 ± 0.2154
450
400
350
300
250
200

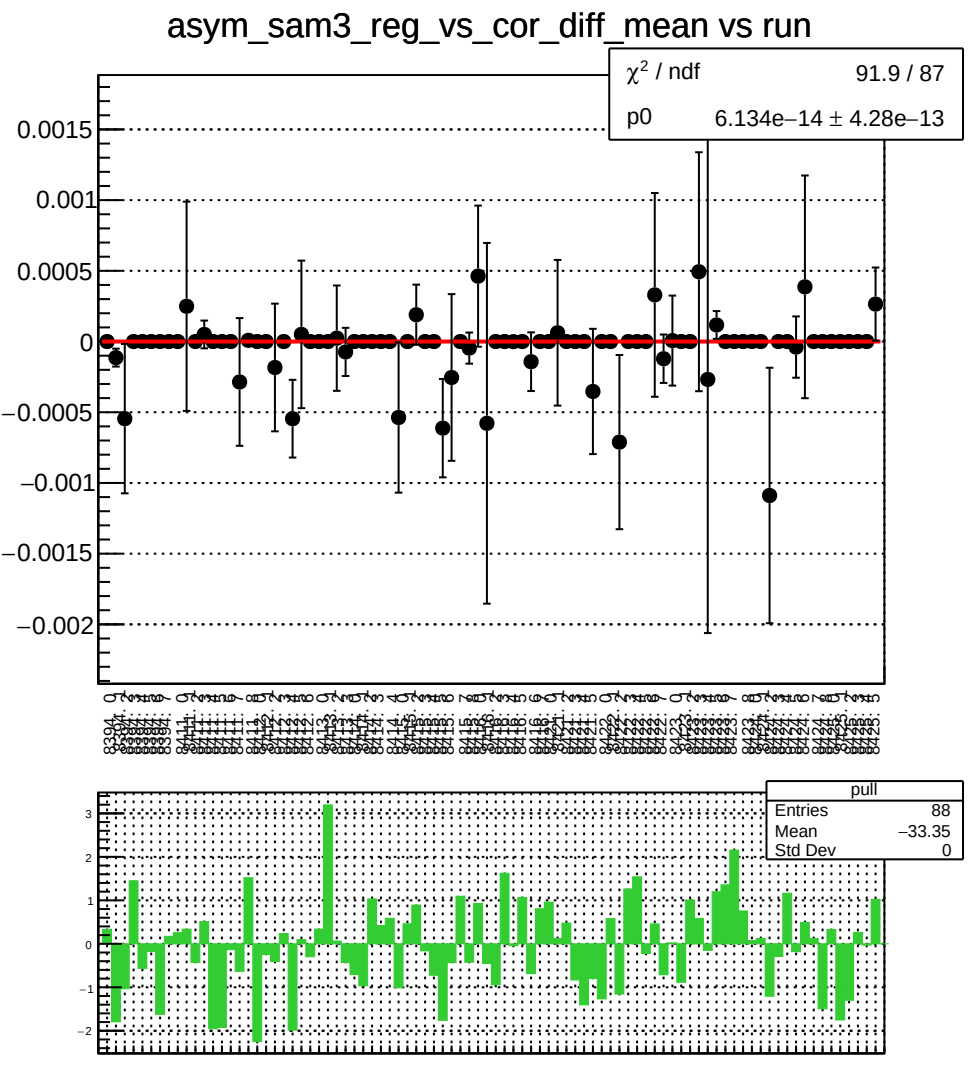

asym_sam3_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 66.73 / 87
p0 −1.289e+04 ± 3196
pull
Entries 88
Mean −275.7
Std Dev 0
pull1D
Entries 88
Mean 0.01205
Std Dev 0.8707

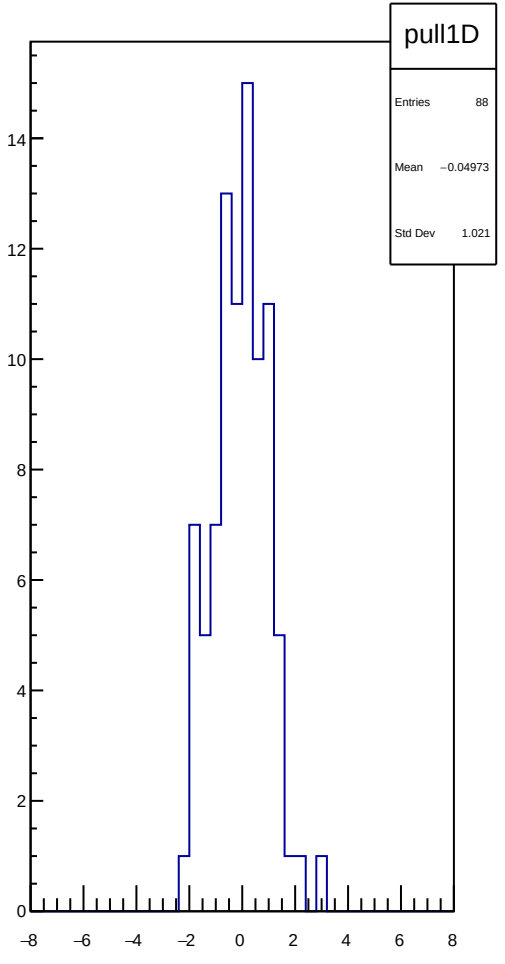

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 1.655e+04 / 87
p0 2926 ± 2.26
3600
3400
3200
3000
2800
2600
2400
2200

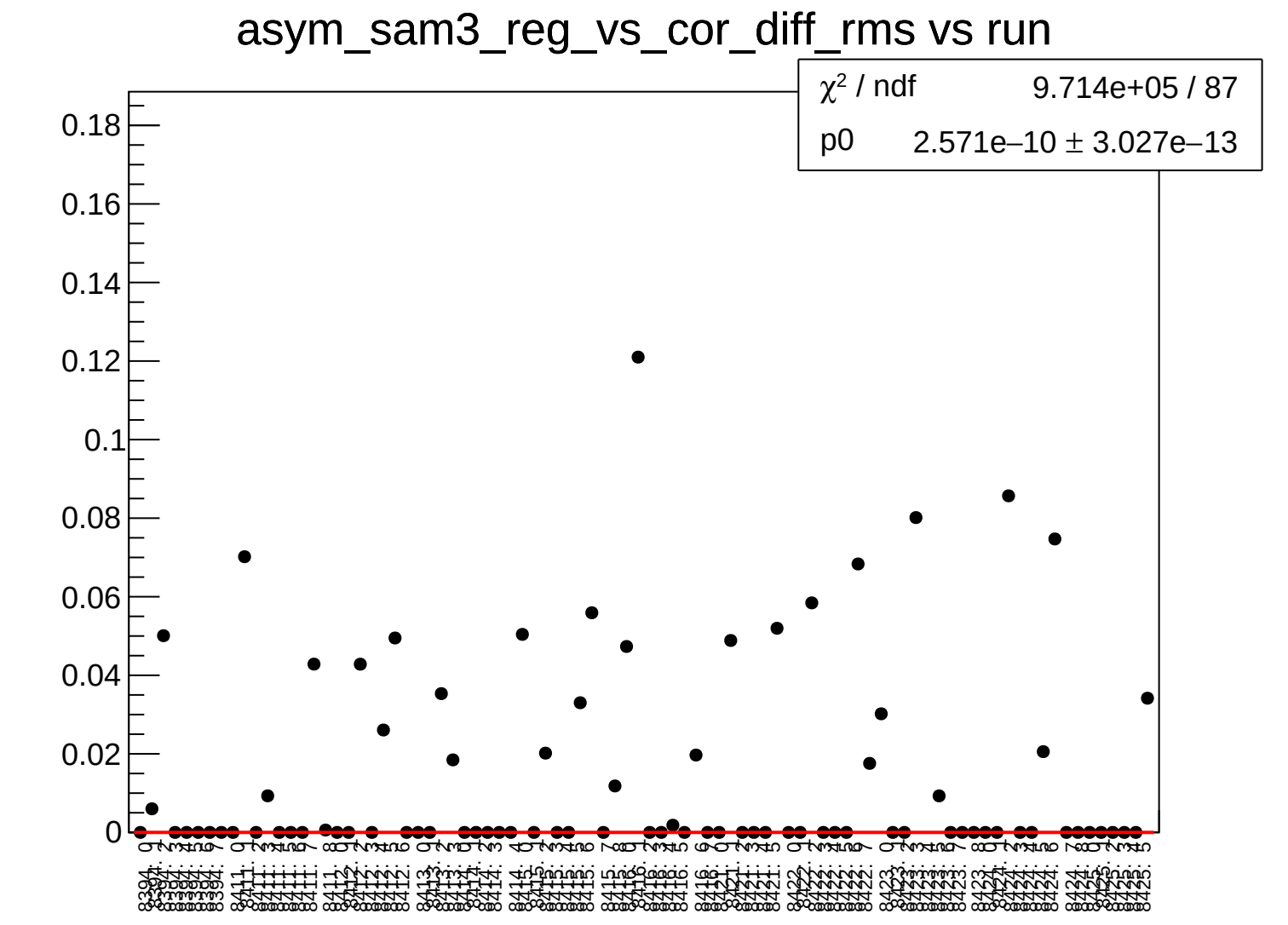

asym_sam3_mean vs run
×10^3
χ² / ndf 66.39 / 87
p0 1.356e+04 ± 3298
150
100
50
0
−50
−100
pull
Entries 88
Mean −315.7
Std Dev 0
2
1
0
−1
−2

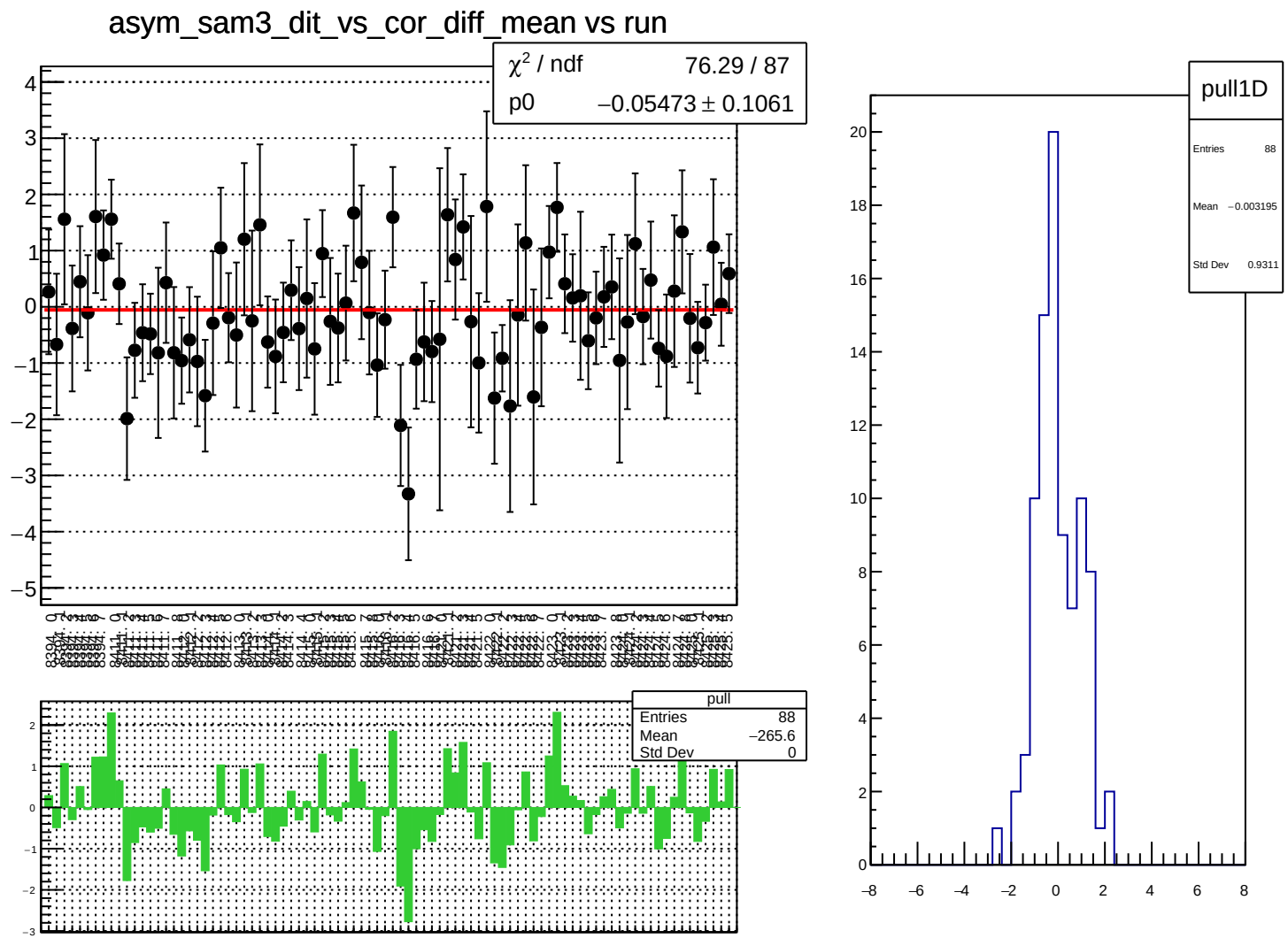

pull1D
Entries 88
Mean −0.01145
Std Dev 0.8685
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

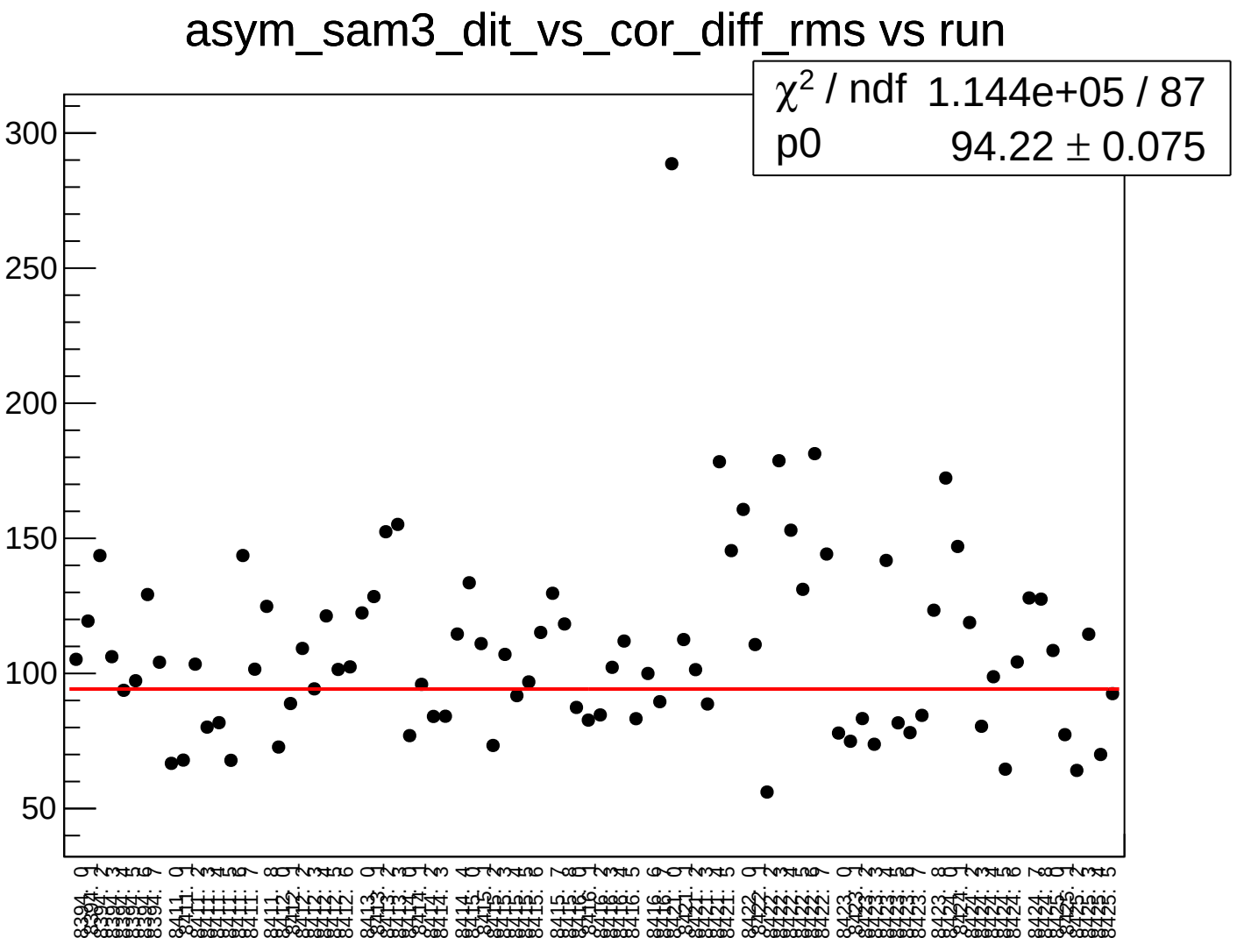

asym_sam3_rms vs run
χ² / ndf 1.656e+04 / 87
p0 3019 ± 2.332
3800
3600
3400
3200
3000
2800
2600
2400

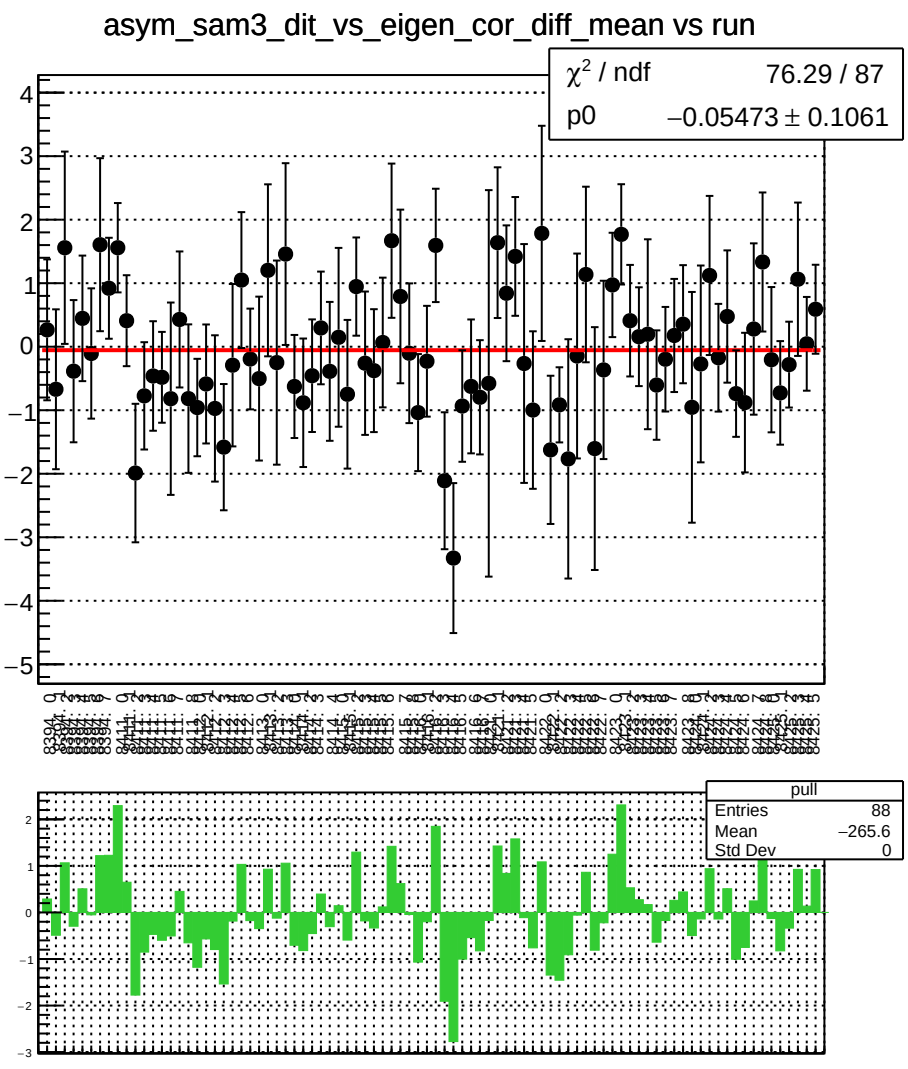

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 91.9 / 87
p0 6.134e−14 ± 4.28e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 88
Mean −33.35
Std Dev 0
3
2
1
0
−1
−2

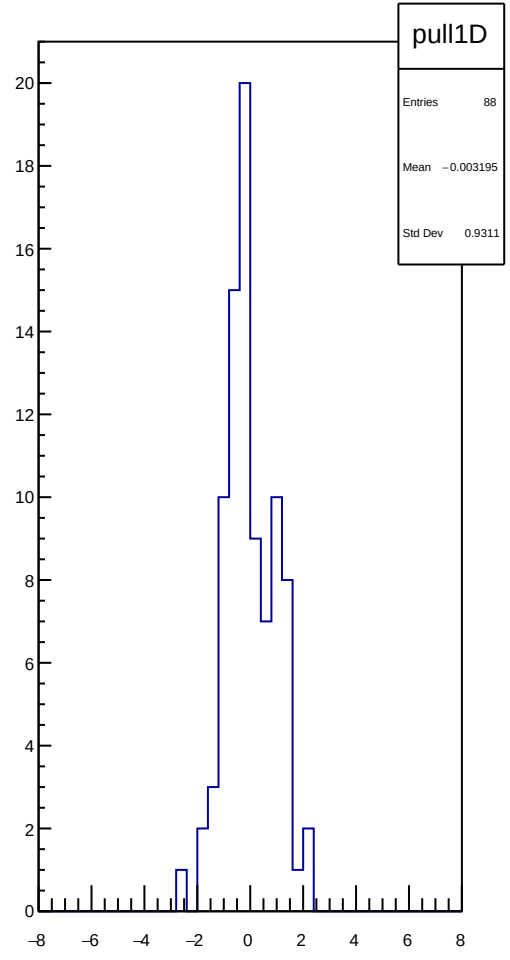

pull1D
Entries 88
Mean −0.04973
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

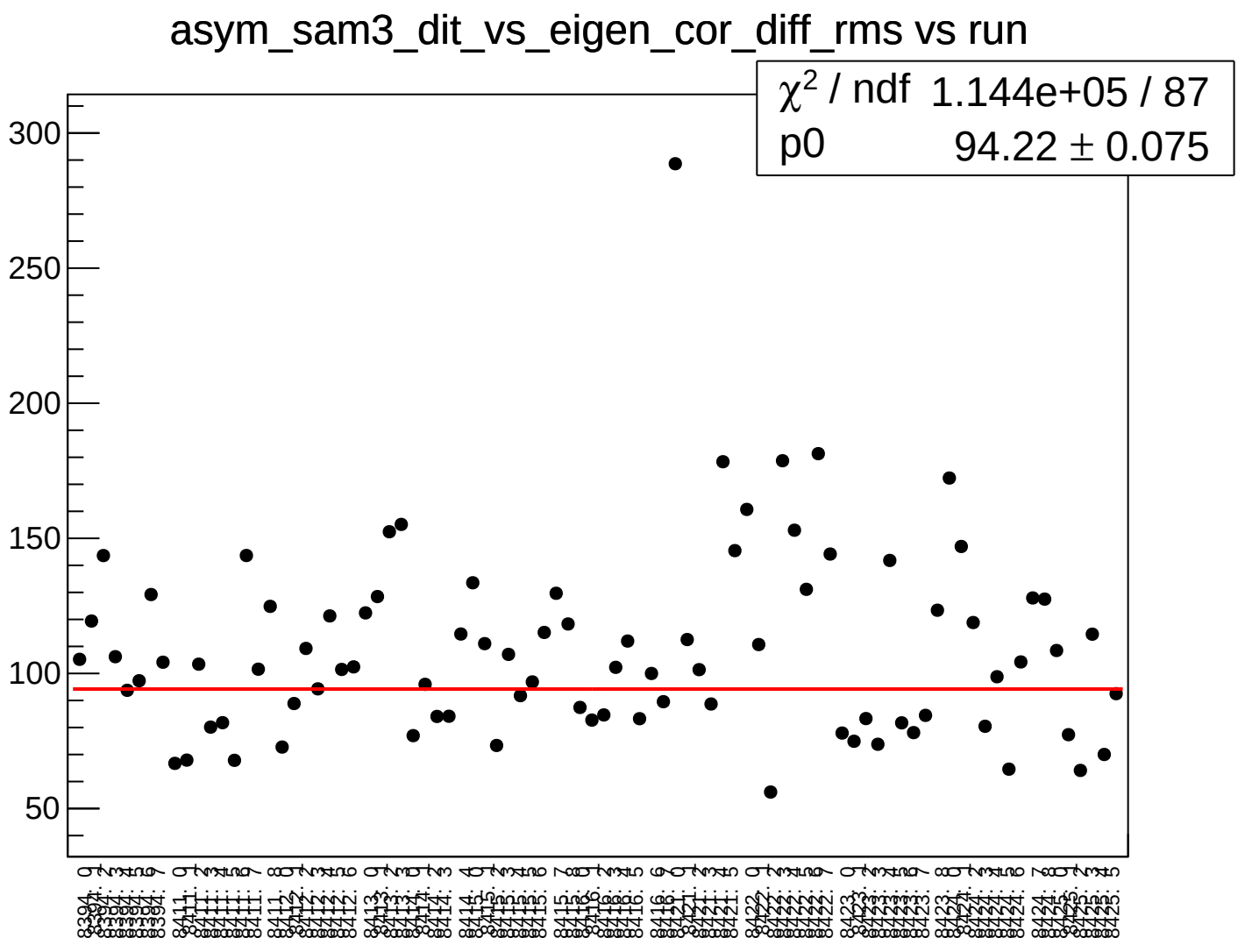

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 9.714e+05 / 87
p0 2.571e−10 ± 3.027e−13
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

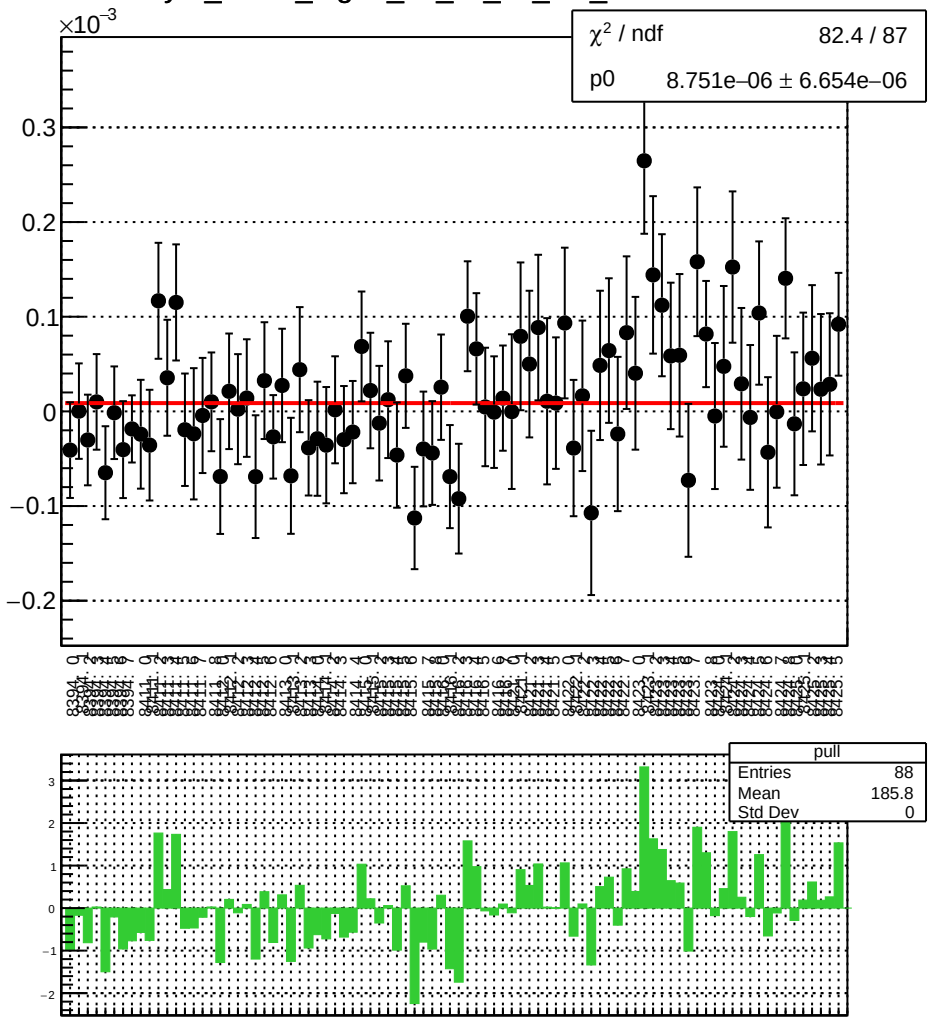

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 76.29 / 87
p0 −0.05473 ± 0.1061
pull
Entries 88
Mean −265.6
Std Dev 0
pull1D
Entries 88
Mean −0.003195
Std Dev 0.9311

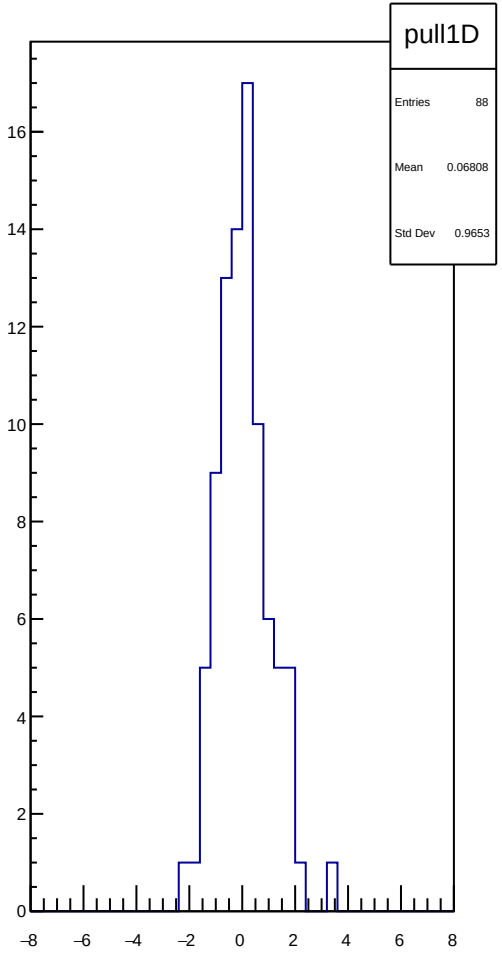

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 1.144e+05 / 87
p0 94.22 ± 0.075
300
250
200
150
100
50

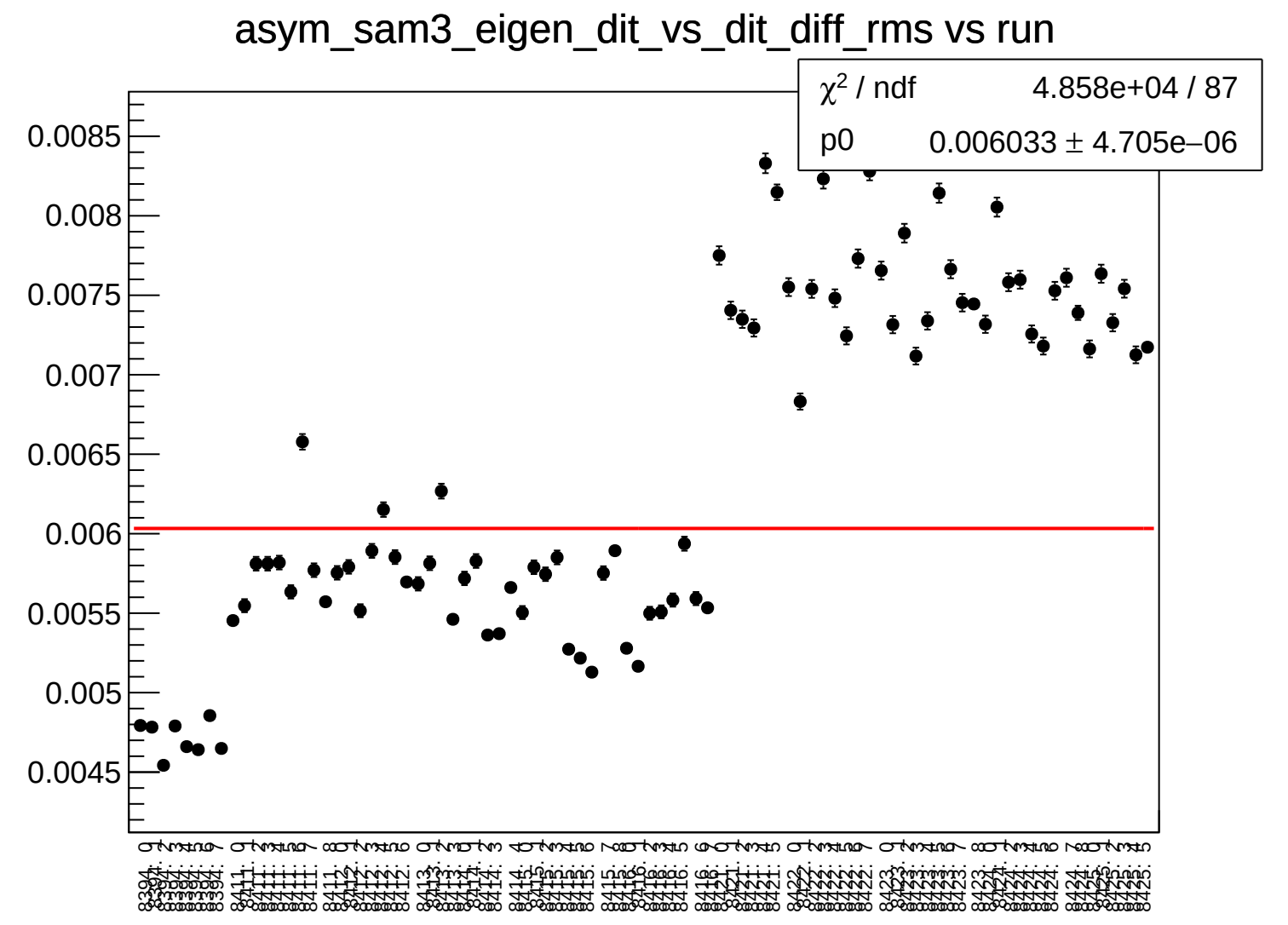

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.29 / 87
p0 −0.05473 ± 0.1061
pull
Entries 88
Mean −265.6
Std Dev 0

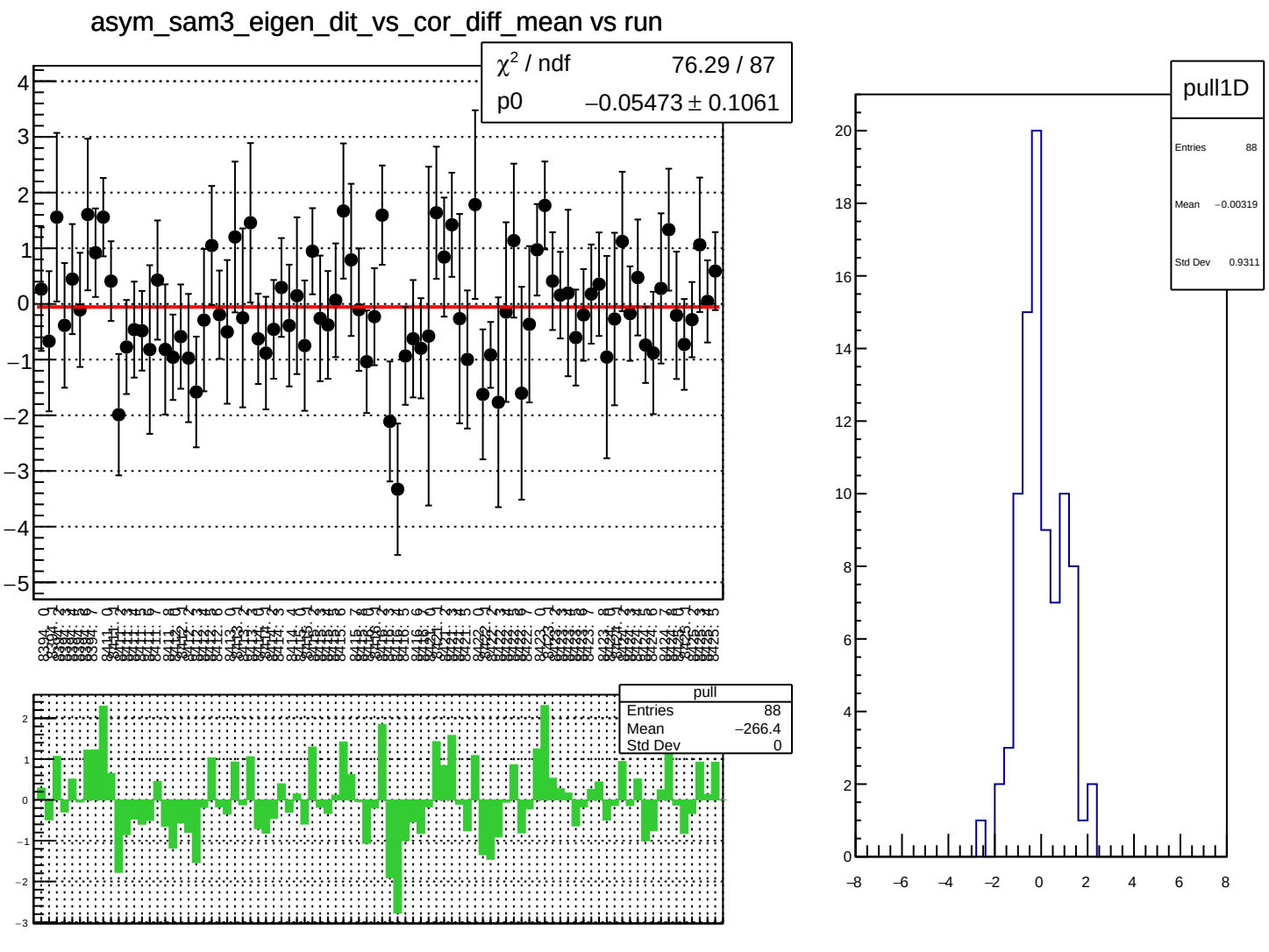

pull1D
Entries 88
Mean −0.003195
Std Dev 0.9311

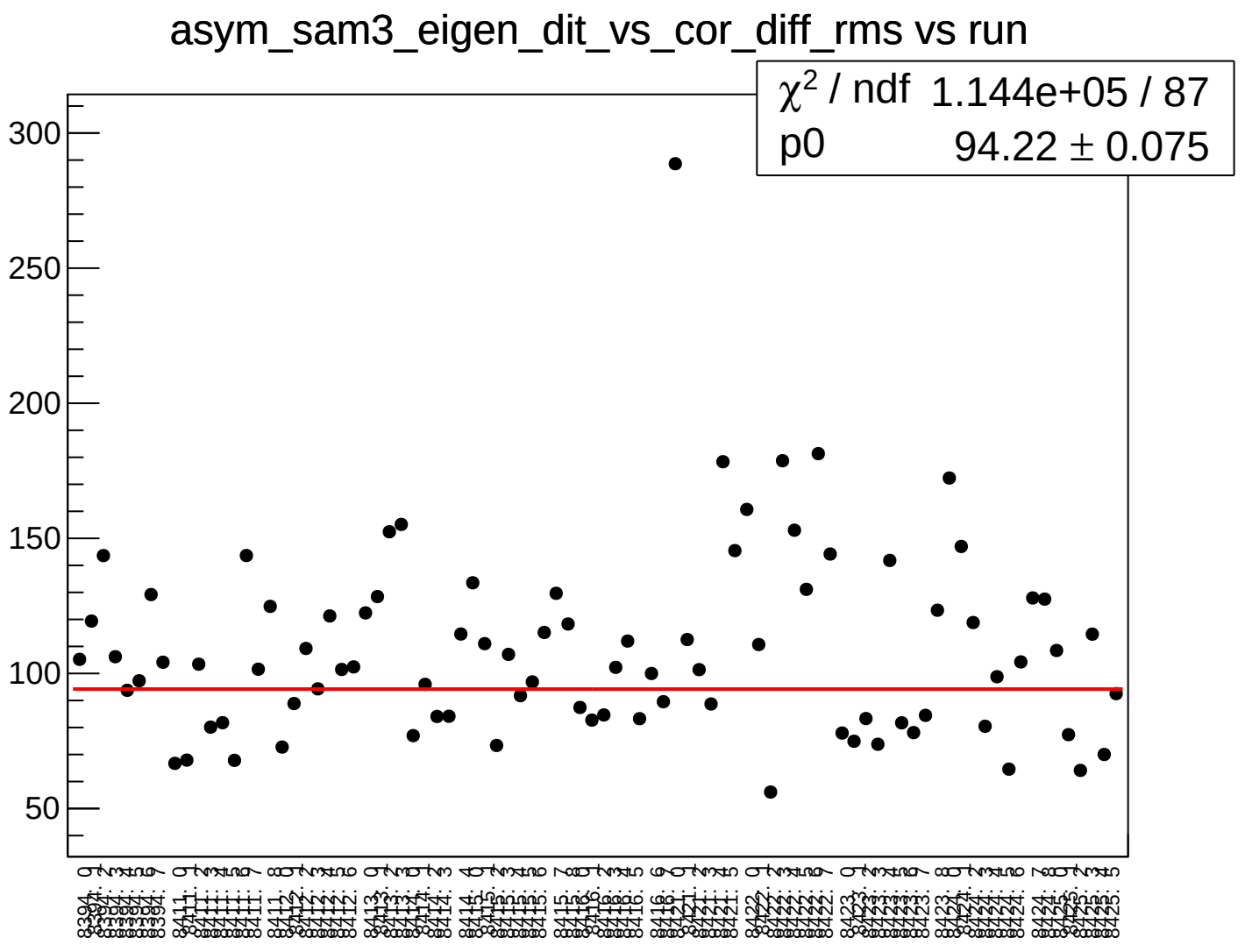

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.144e+05 / 87
p0 94.22 ± 0.075
300
250
200
150
100
50

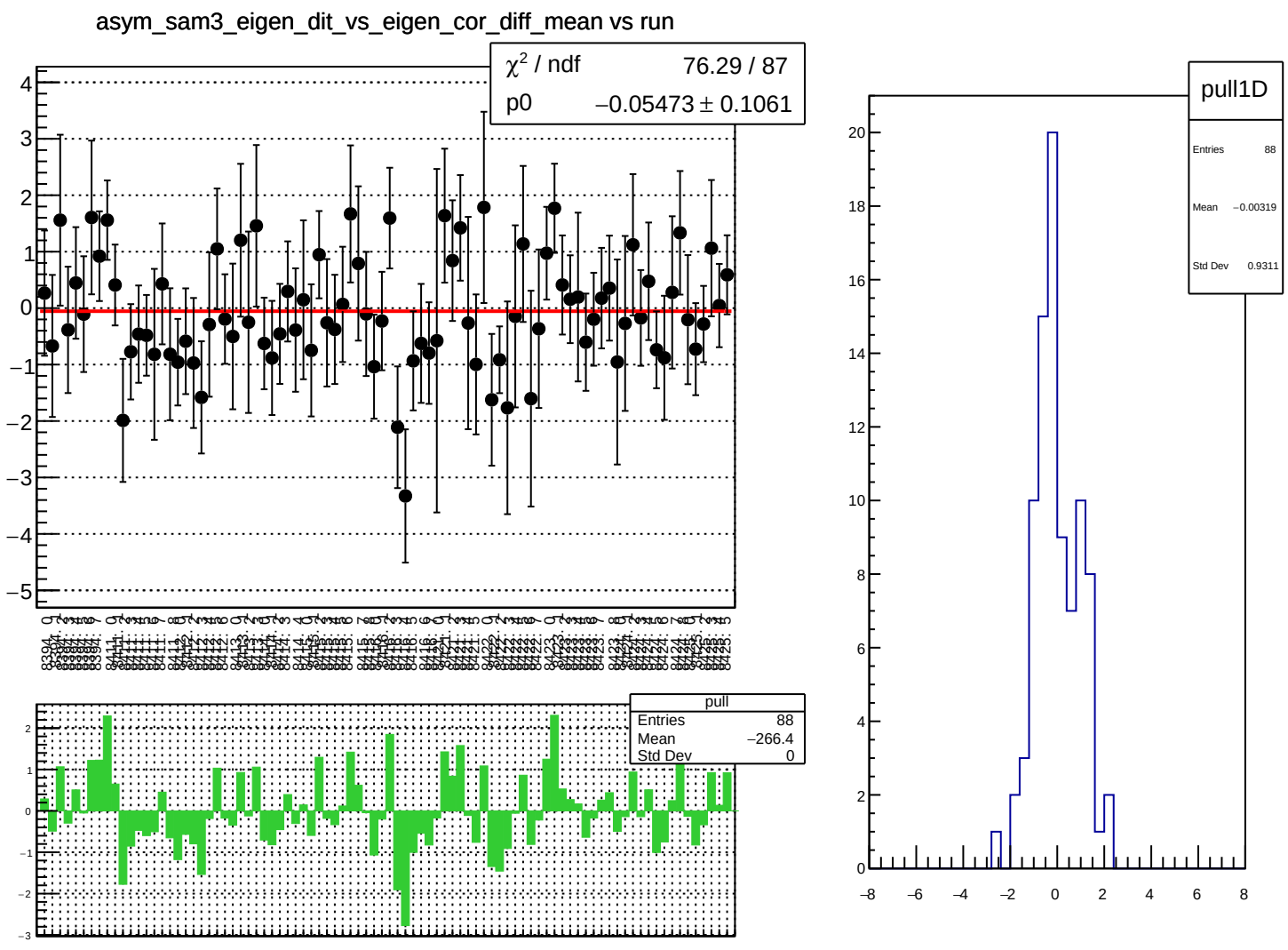

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.4 / 87
p0 8.751e−06 ± 6.654e−06
0.3
0.2
0.1
0
−0.1
−0.2
pull
Entries 88
Mean 185.8
Std Dev 0
3
2
1
0
−1
−2

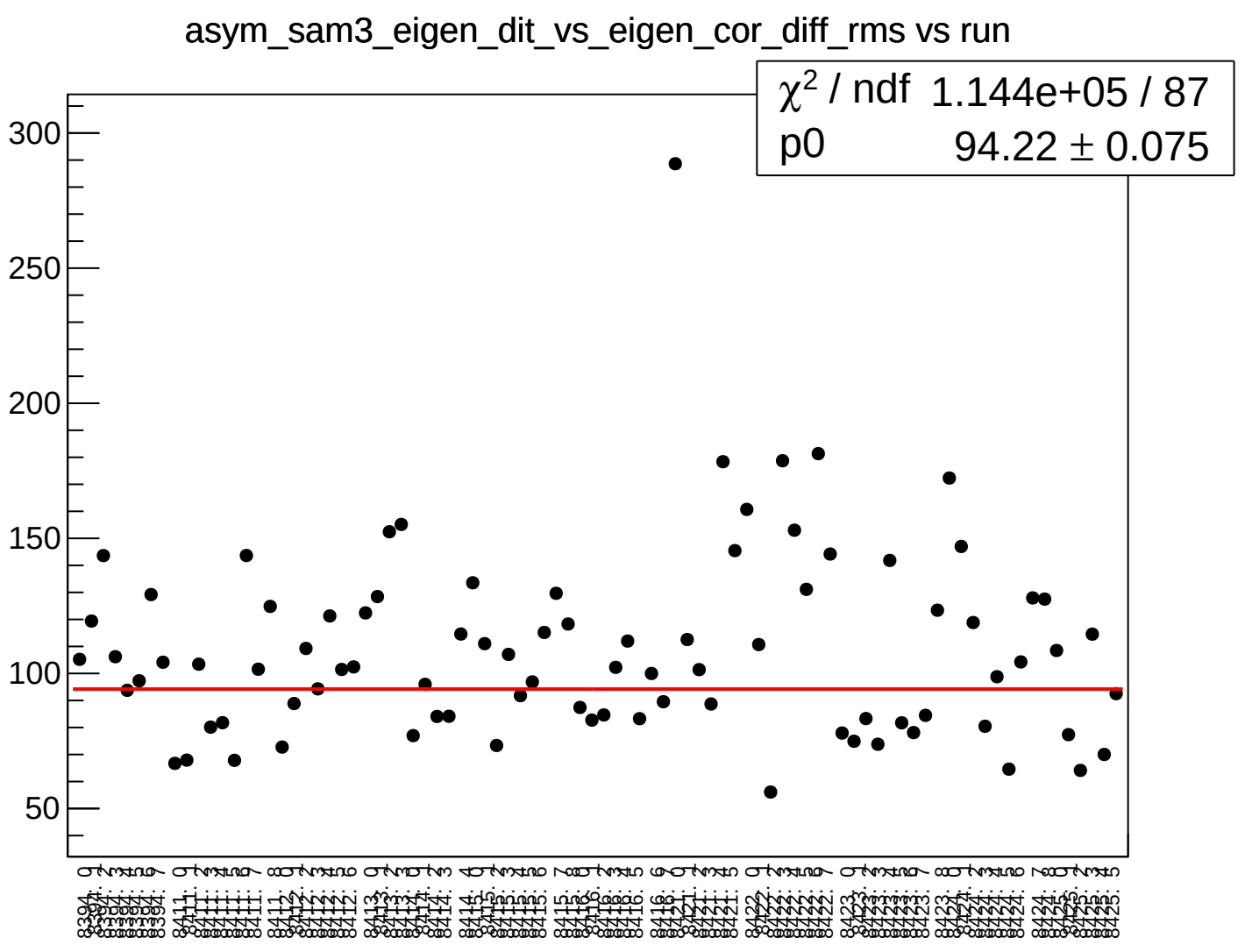

pull1D
Entries 88
Mean 0.06808
Std Dev 0.9653
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

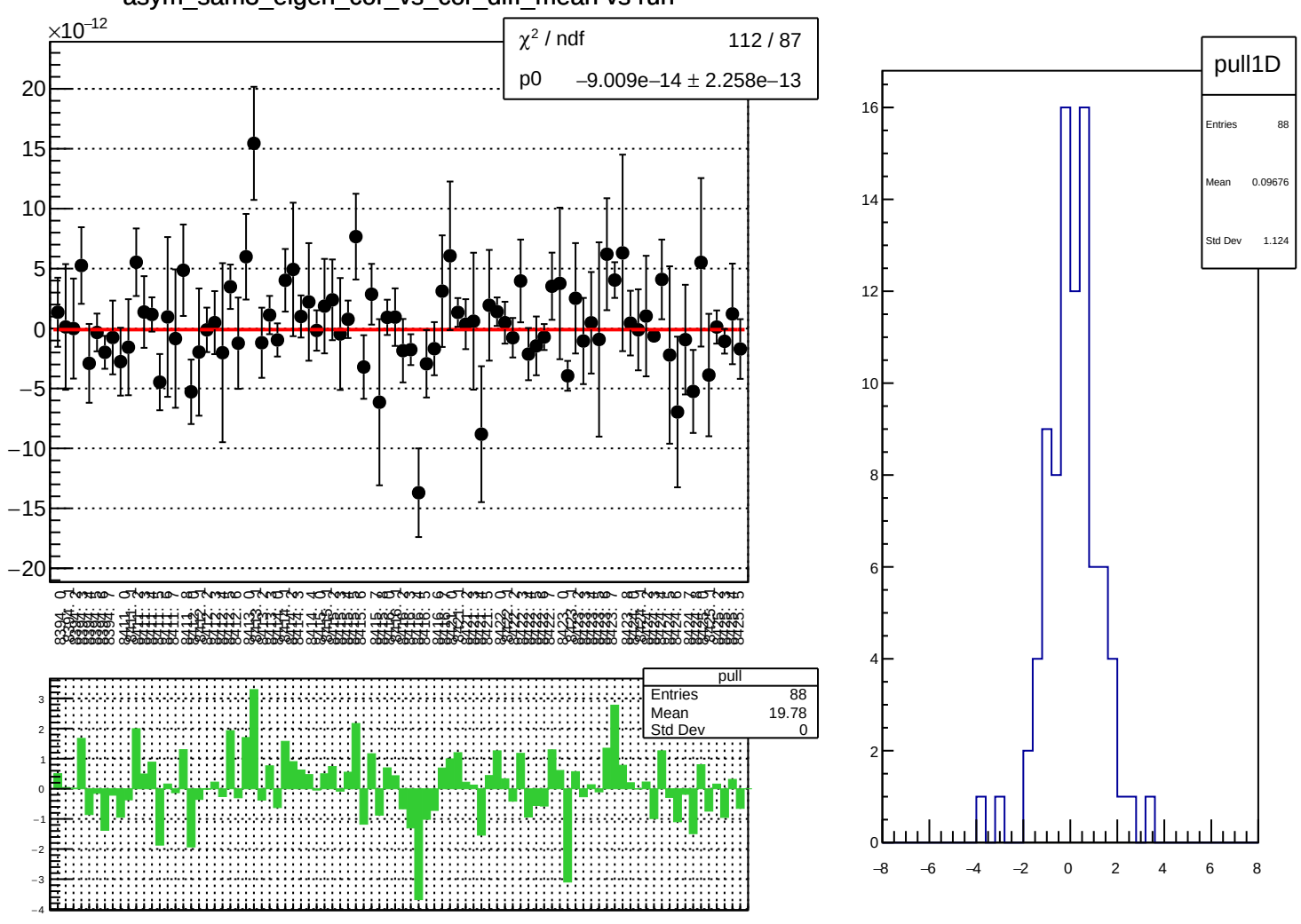

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.858e+04 / 87
p0 0.006033 ± 4.705e−06
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045

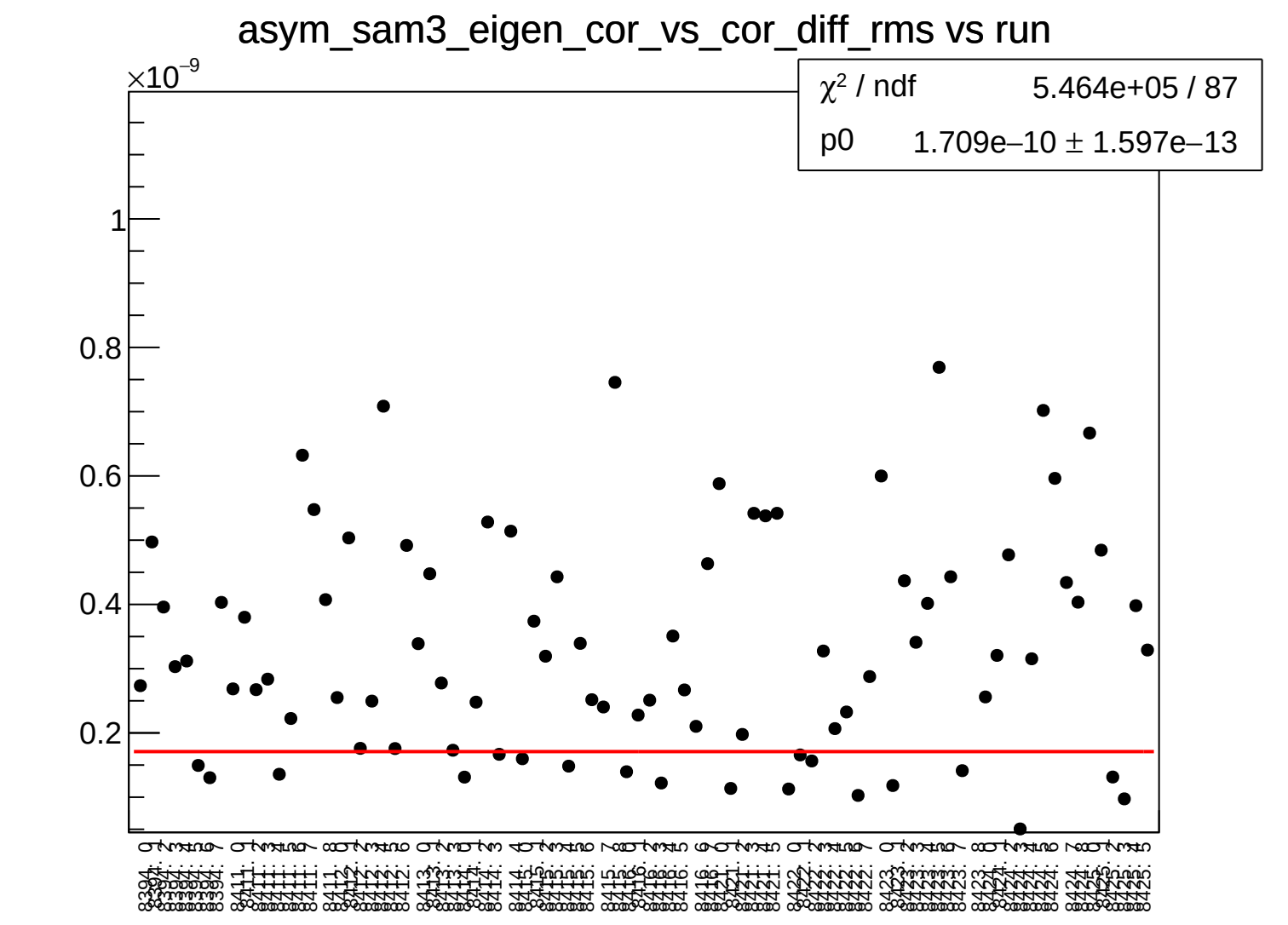

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.29 / 87
p0 −0.05473 ± 0.1061
pull
Entries 88
Mean −266.4
Std Dev 0
pull1D
Entries 88
Mean −0.00319
Std Dev 0.9311

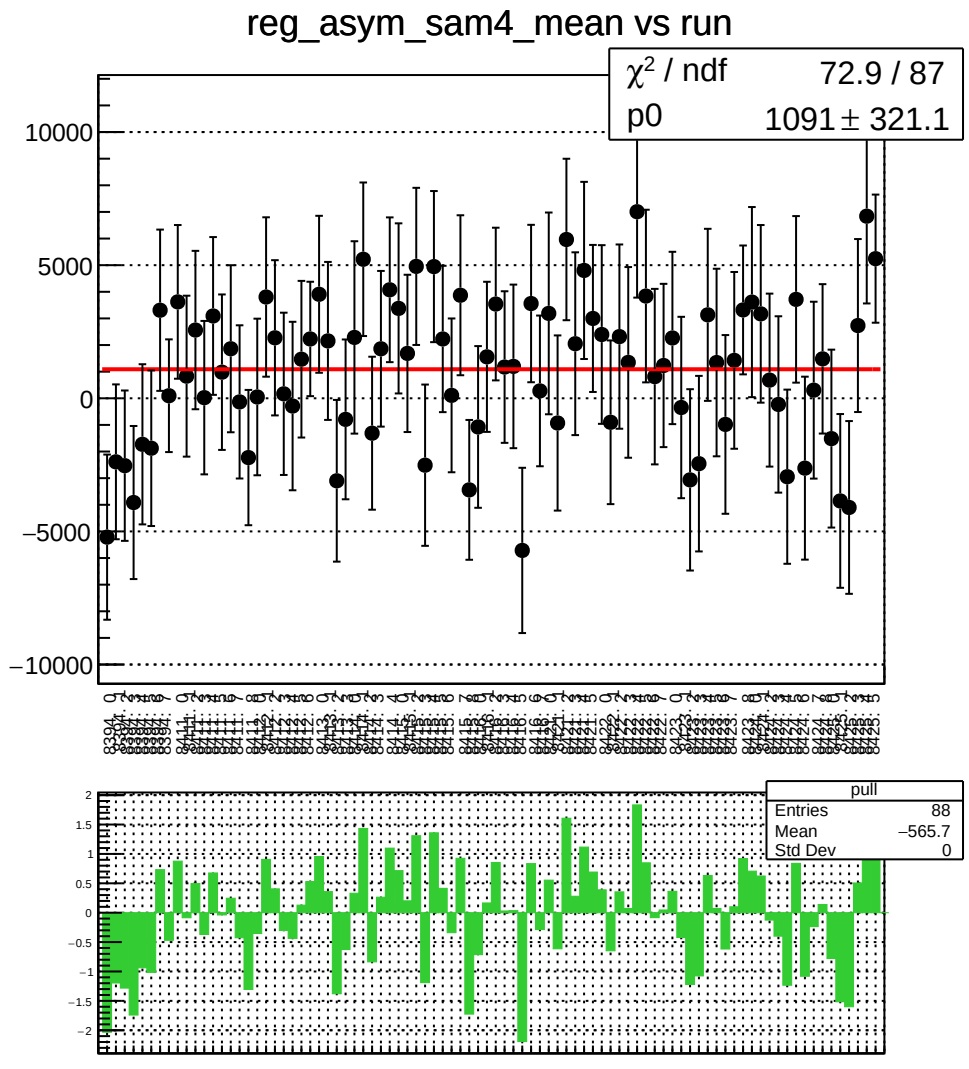

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.144e+05 / 87
p0 94.22 ± 0.075
300
250
200
150
100
50

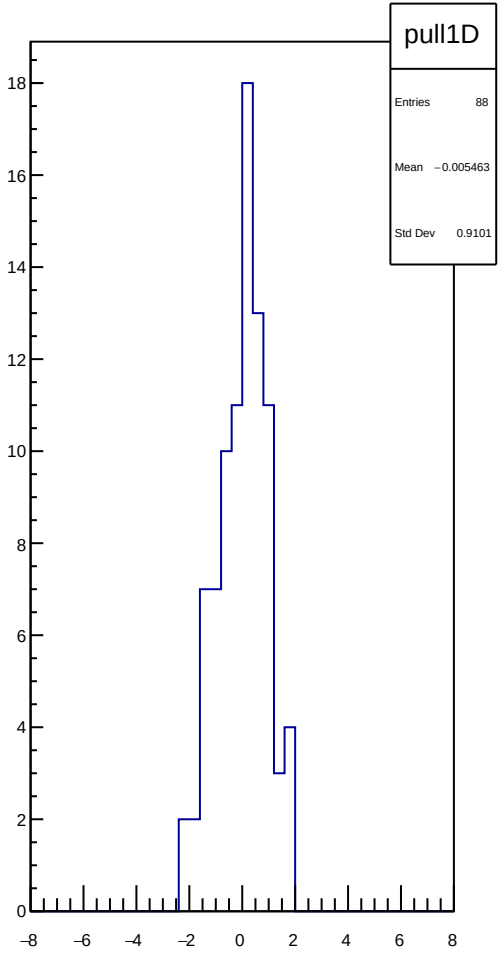

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.29 / 87
p0 −0.05473 ± 0.1061
pull
Entries 88
Mean −266.4
Std Dev 0
pull1D
Entries 88
Mean −0.00319
Std Dev 0.9311

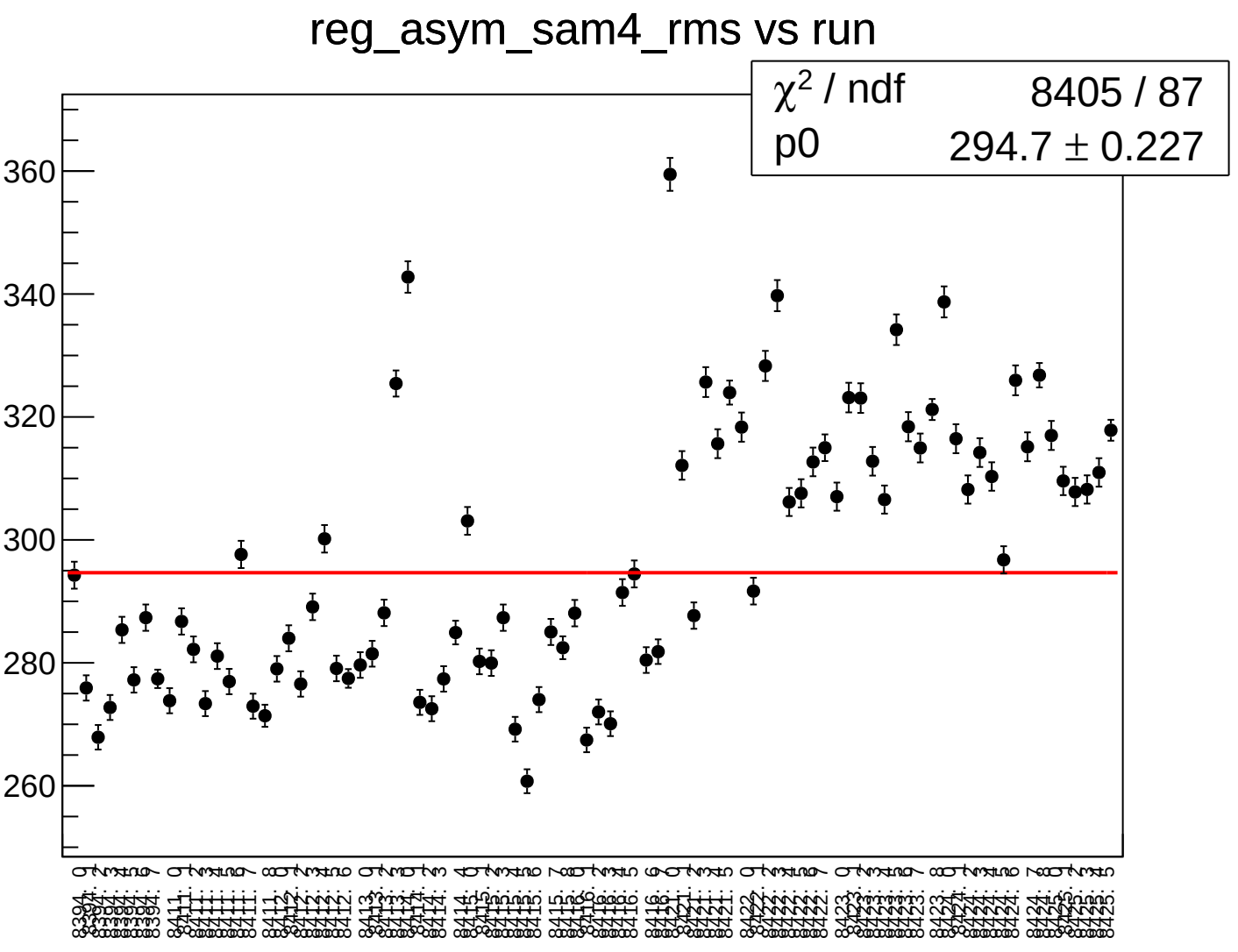

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.144e+05 / 87
p0 94.22 ± 0.075
300
250
200
150
100
50

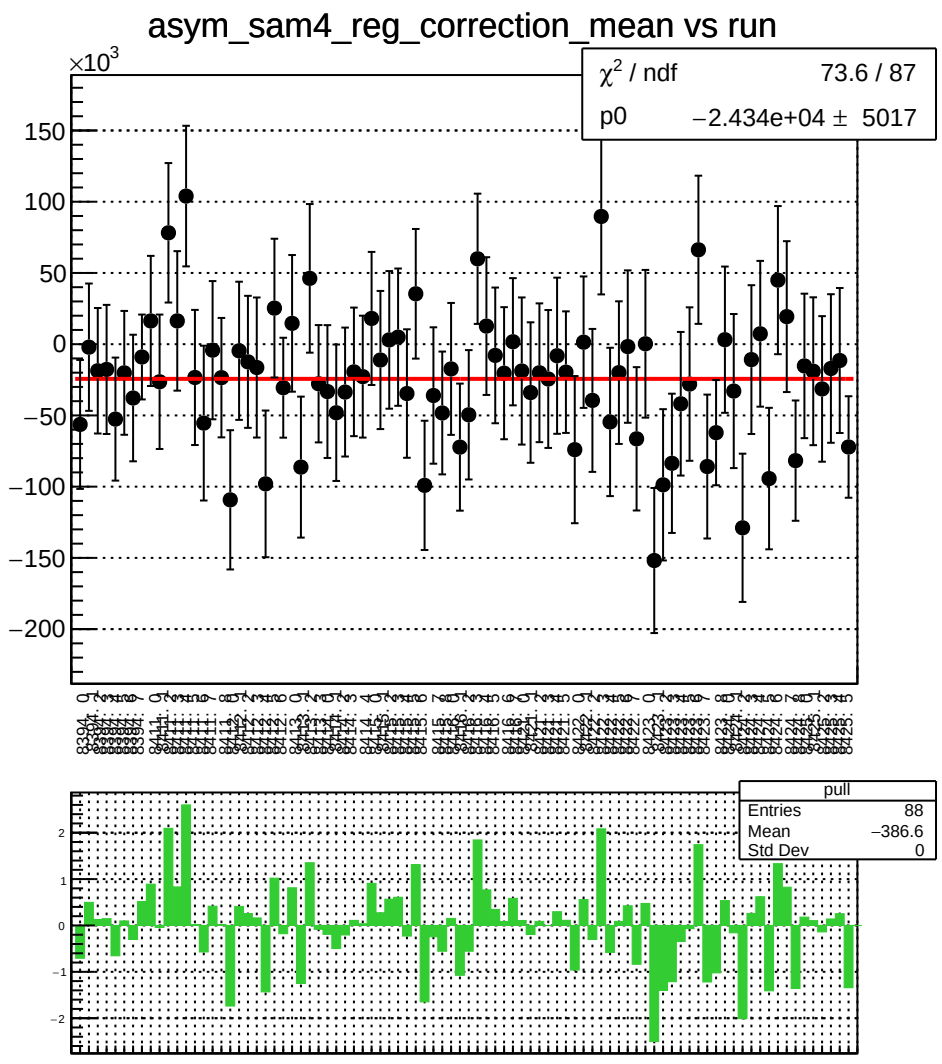

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 112 / 87
p0 −9.009e−14 ± 2.258e−13
pull
Entries 88
Mean 19.78
Std Dev 0
pull1D
Entries 88
Mean 0.09676
Std Dev 1.124

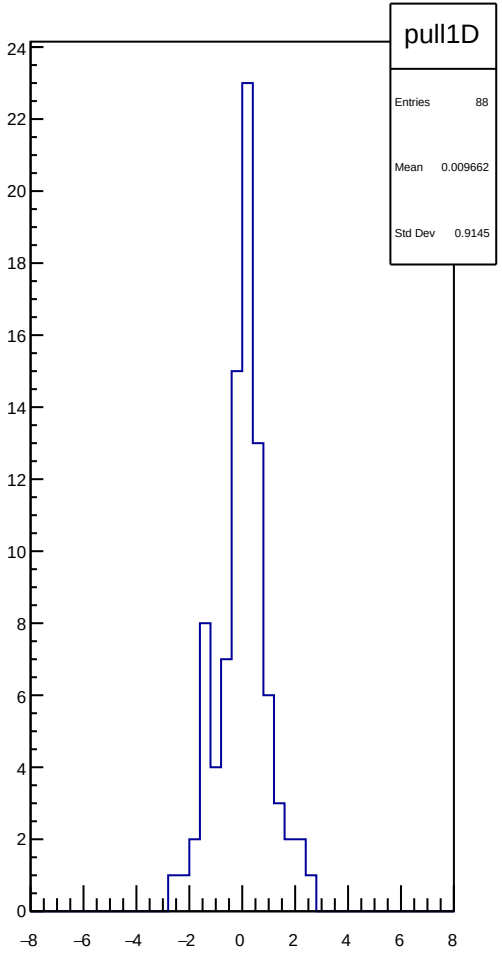

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.464e+05 / 87
p0 1.709e−10 ± 1.597e−13
1
0.8
0.6
0.4
0.2

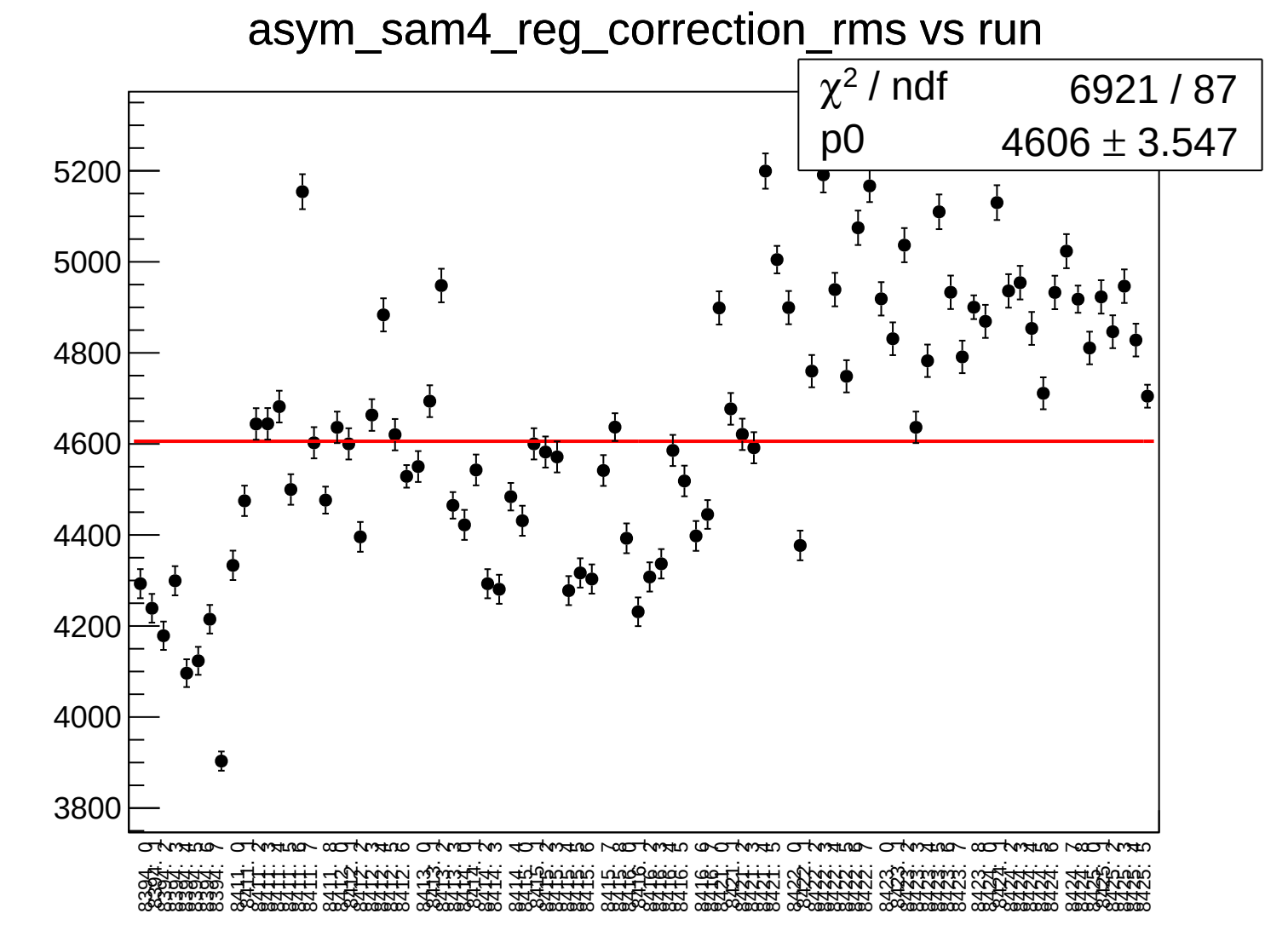

reg_asym_sam4_mean vs run
χ² / ndf 72.9 / 87
p0 1091 ± 321.1
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −565.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

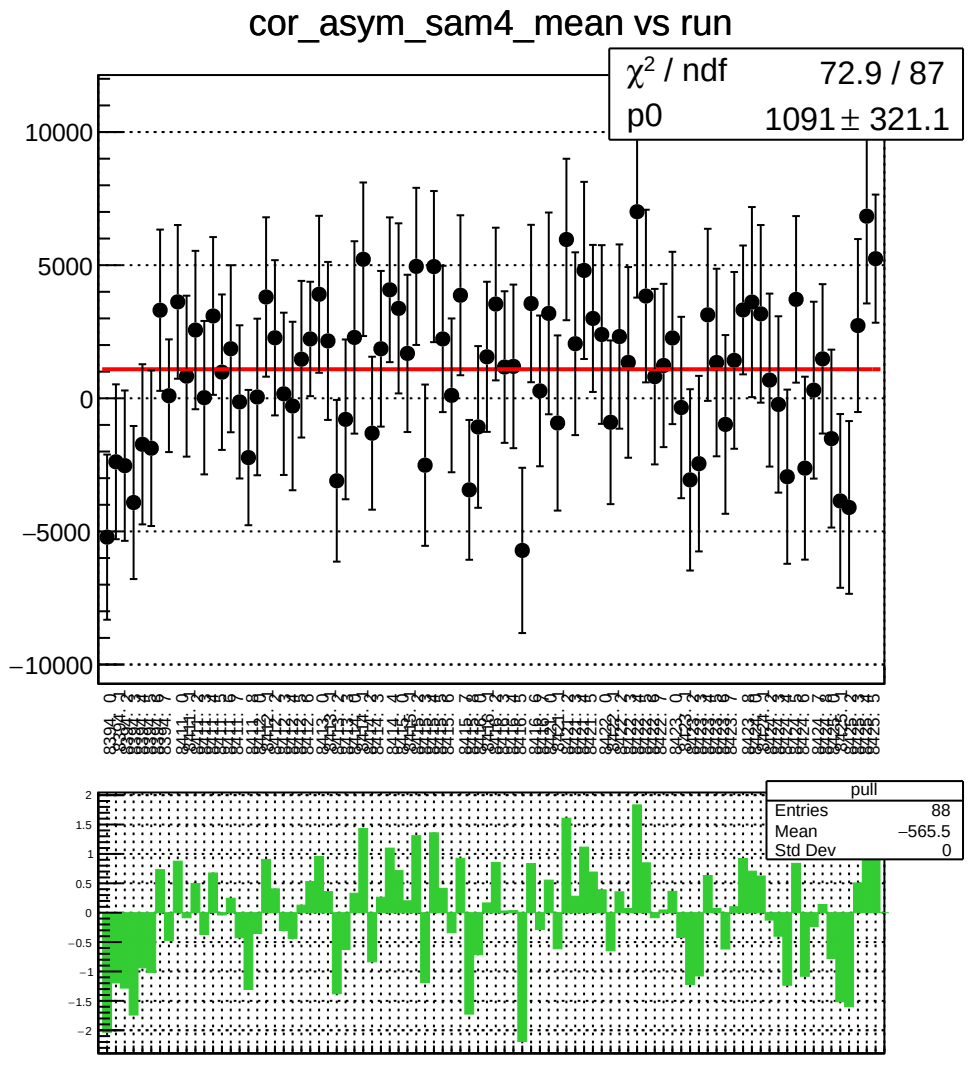

pull1D
Entries 88
Mean −0.005463
Std Dev 0.9101
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

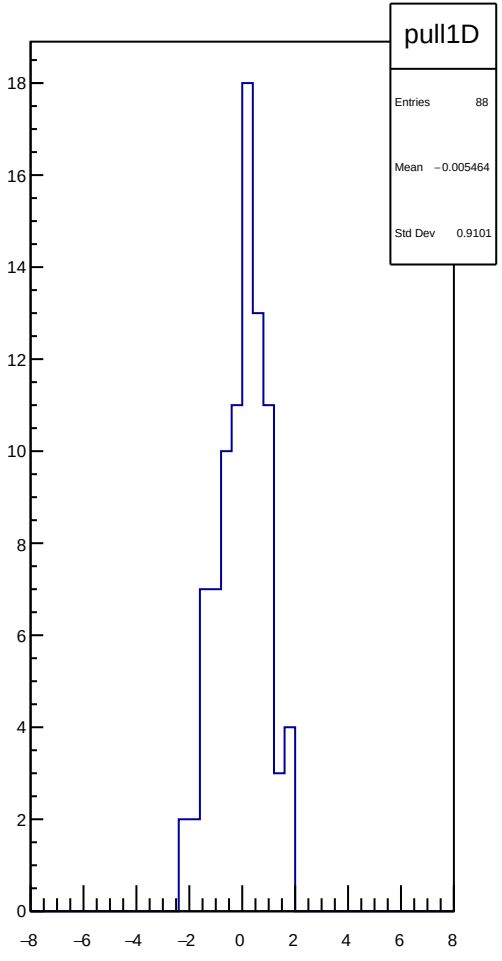

reg_asym_sam4_rms vs run
χ² / ndf 8405 / 87
p0 294.7 ± 0.227
360
340
320
300
280
260

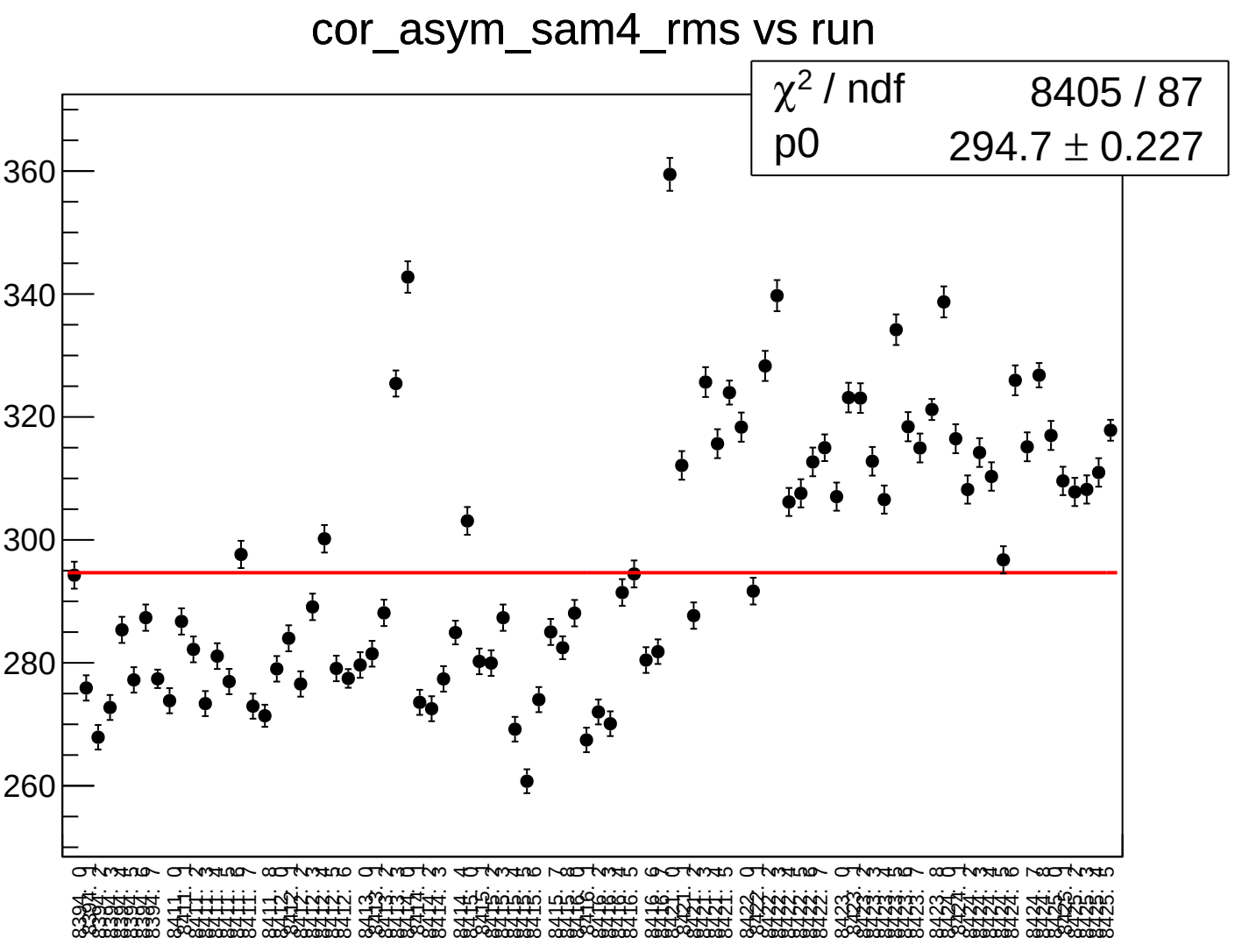

asym_sam4_reg_correction_mean vs run
×10^3
χ² / ndf 73.6 / 87
p0 −2.434e+04 ± 5017
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −386.6
Std Dev 0
2
1
0
−1
−2

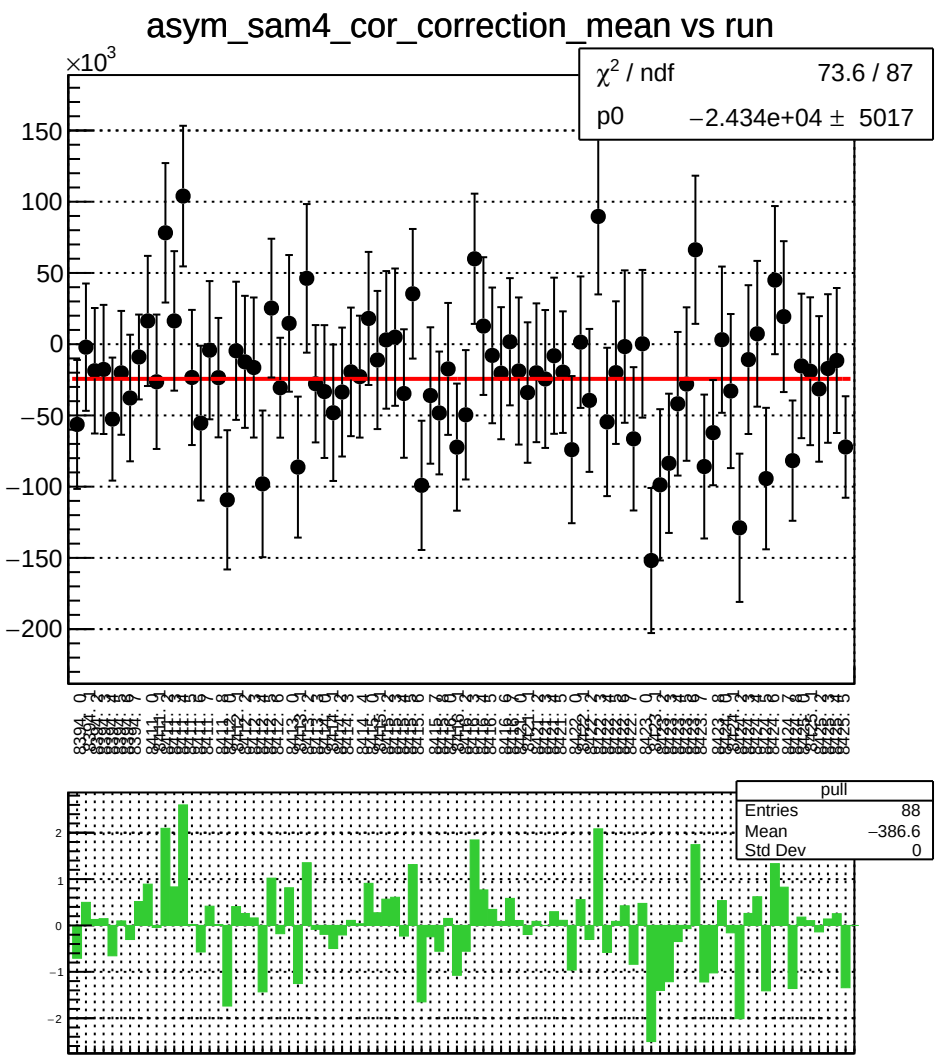

pull1D
Entries 88
Mean 0.009662
Std Dev 0.9145
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

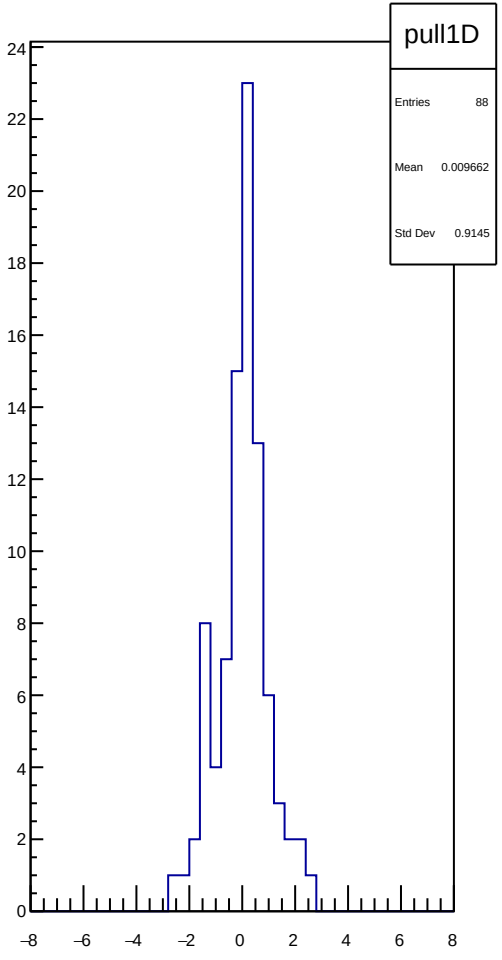

asym_sam4_reg_correction_rms vs run
χ² / ndf 6921 / 87
p0 4606 ± 3.547
5200
5000
4800
4600
4400
4200
4000
3800

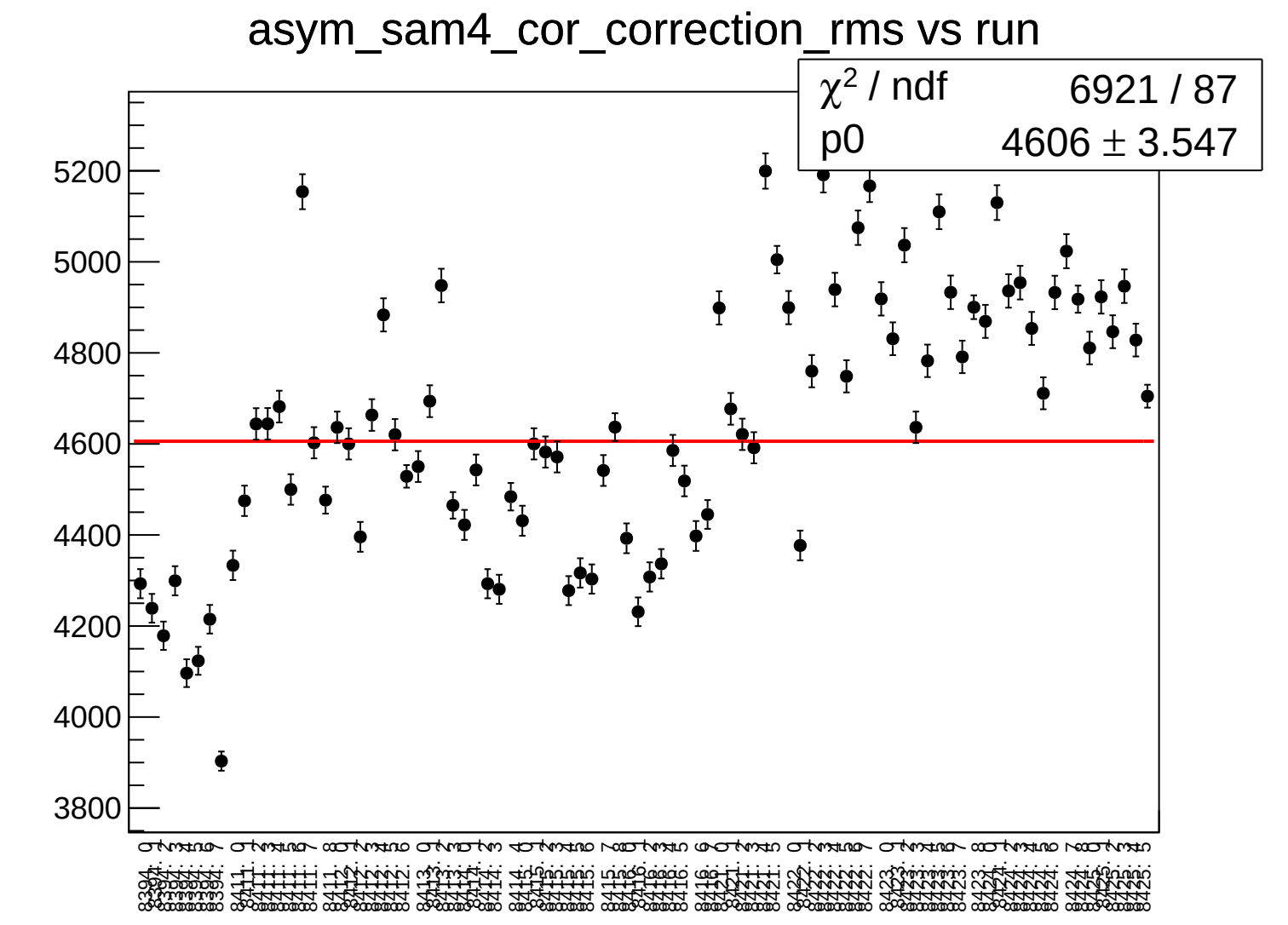

cor_asym_sam4_mean vs run
χ² / ndf 72.9 / 87
p0 1091 ± 321.1
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −565.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

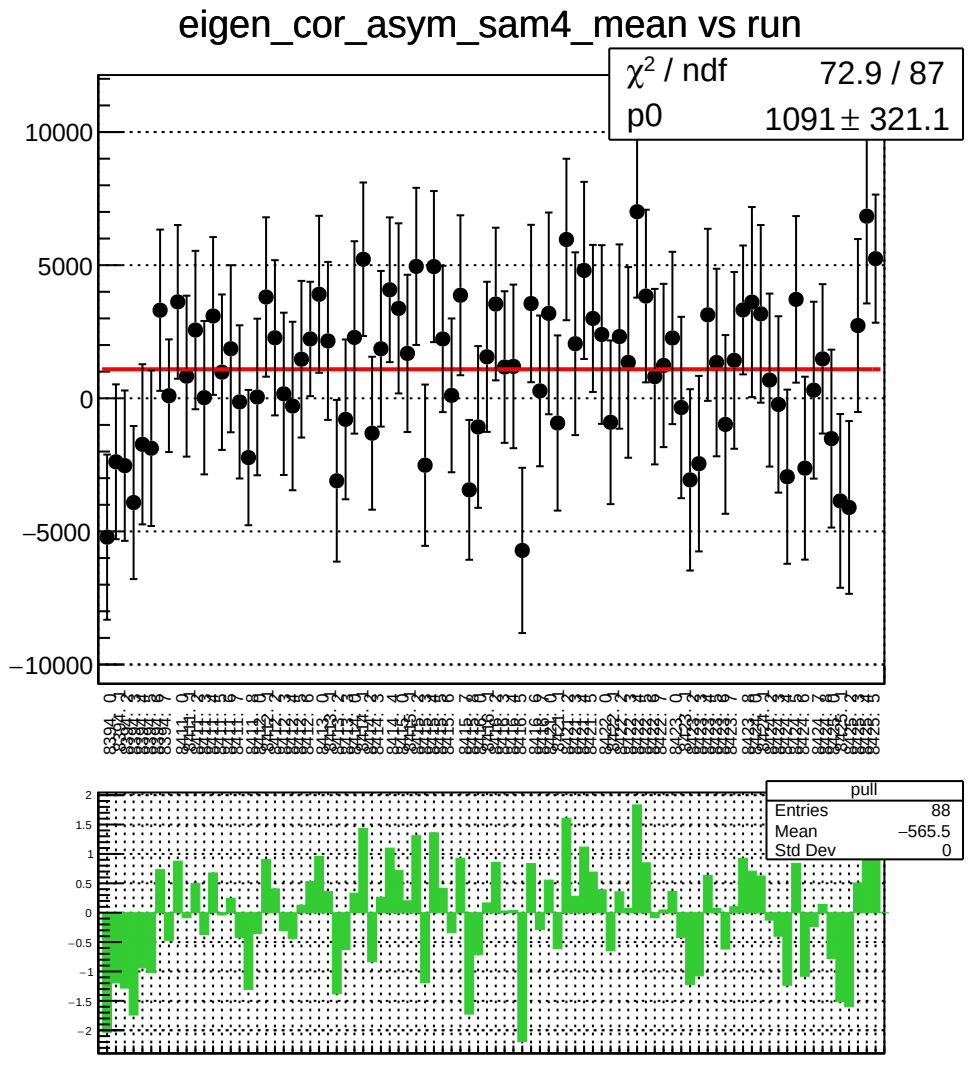

pull1D
Entries 88
Mean −0.005464
Std Dev 0.9101
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

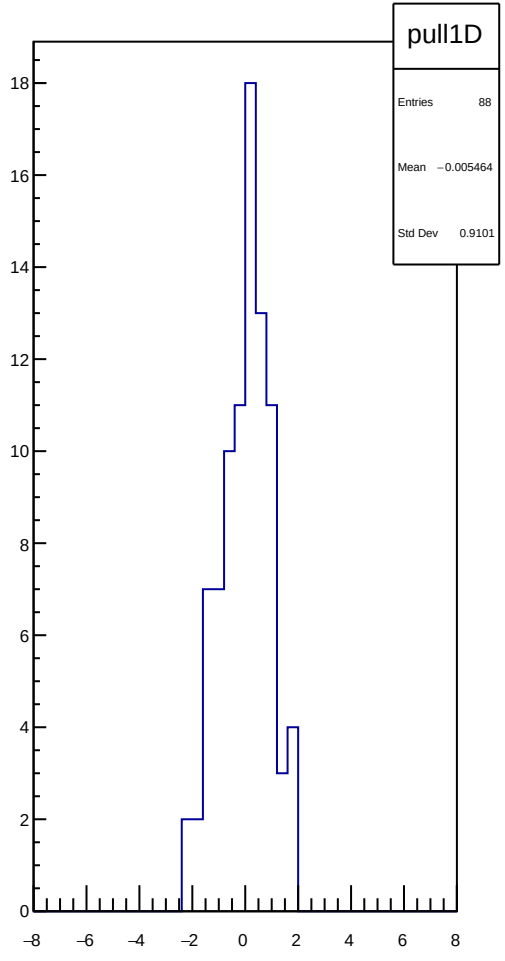

cor_asym_sam4_rms vs run
χ² / ndf 8405 / 87
p0 294.7 ± 0.227
360
340
320
300
280
260

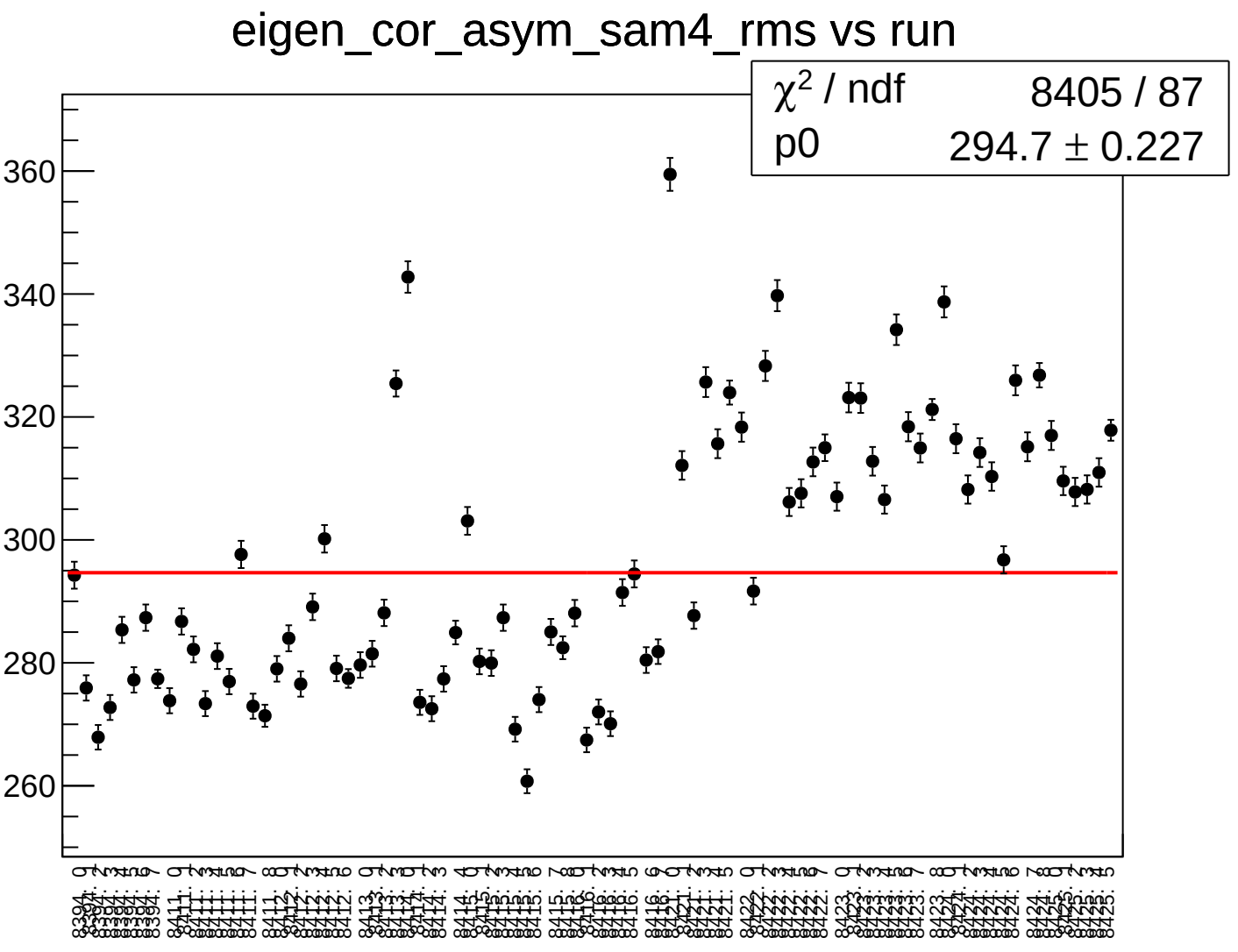

asym_sam4_cor_correction_mean vs run
×10^3
χ² / ndf 73.6 / 87
p0 −2.434e+04 ± 5017
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −386.6
Std Dev 0
2
1
0
−1
−2

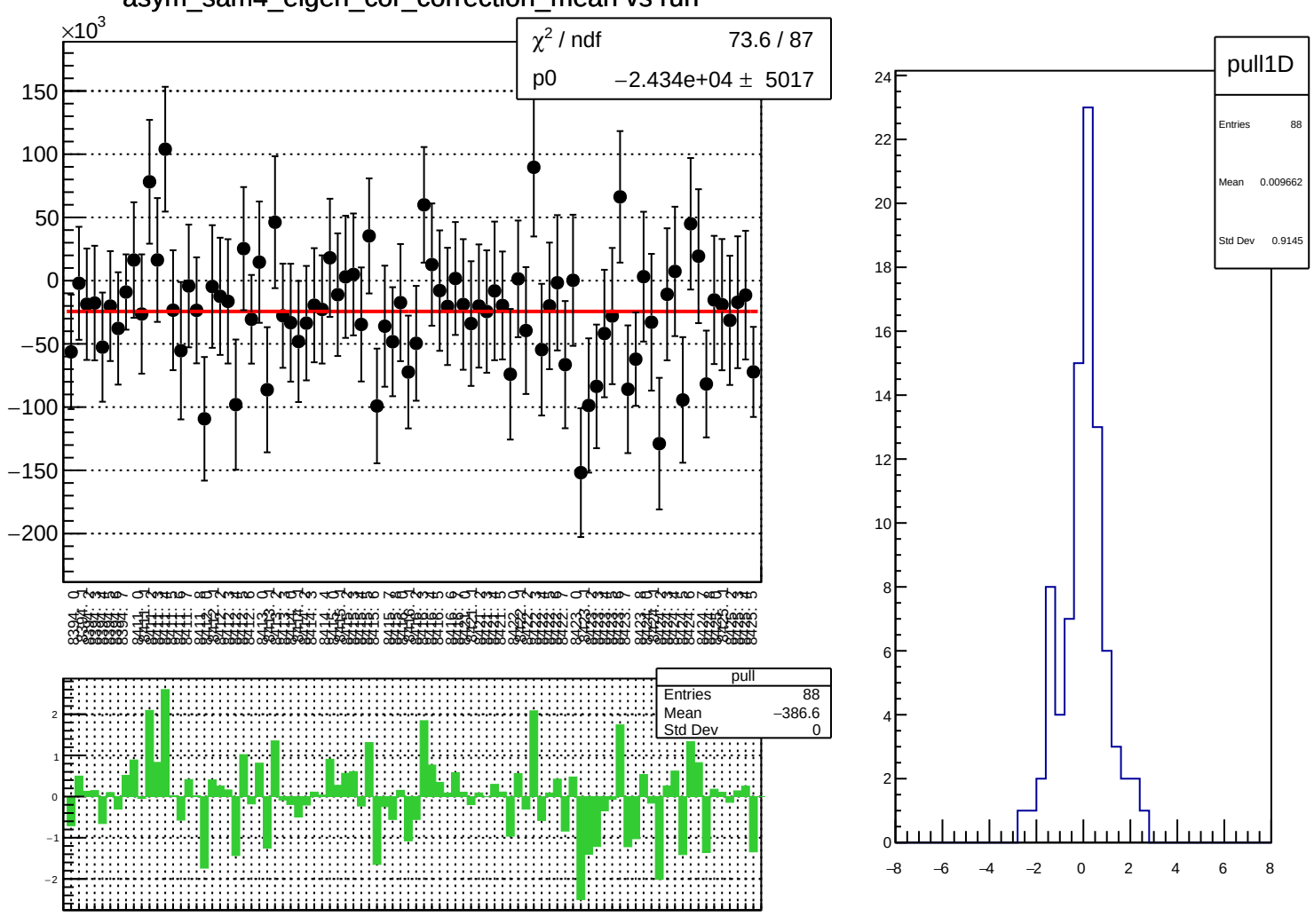

pull1D
Entries 88
Mean 0.009662
Std Dev 0.9145
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

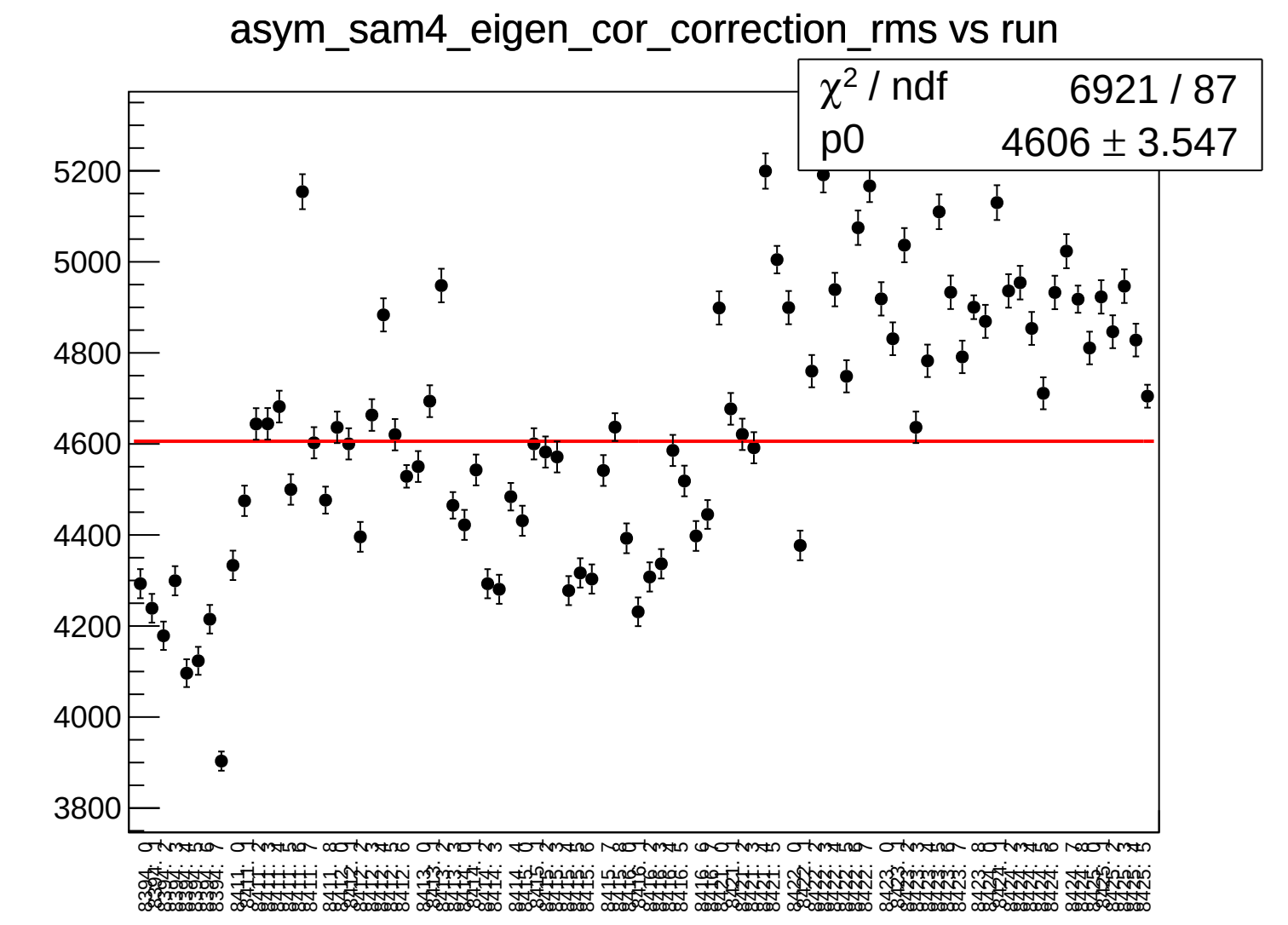

asym_sam4_cor_correction_rms vs run
χ² / ndf 6921 / 87
p0 4606 ± 3.547
5200
5000
4800
4600
4400
4200
4000
3800

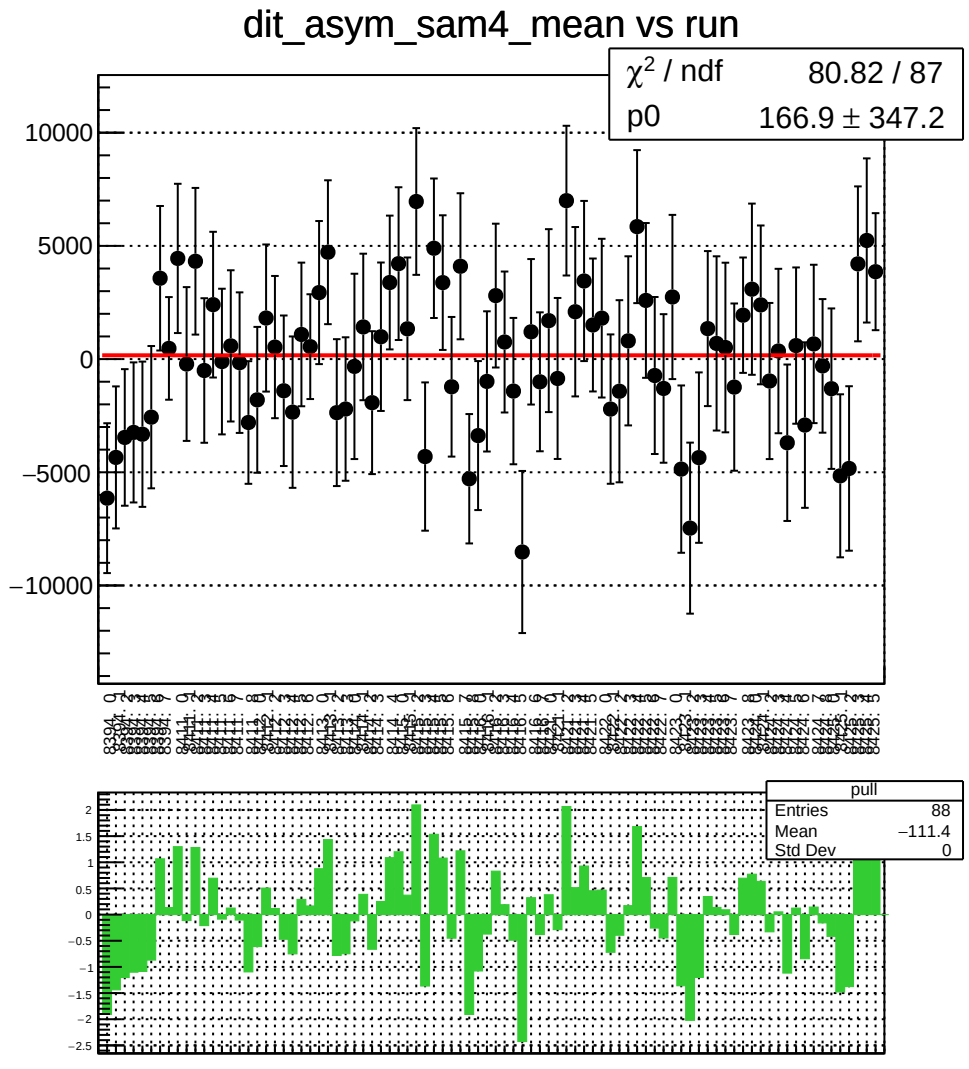

eigen_cor_asym_sam4_mean vs run
χ² / ndf 72.9 / 87
p0 1091 ± 321.1
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −565.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

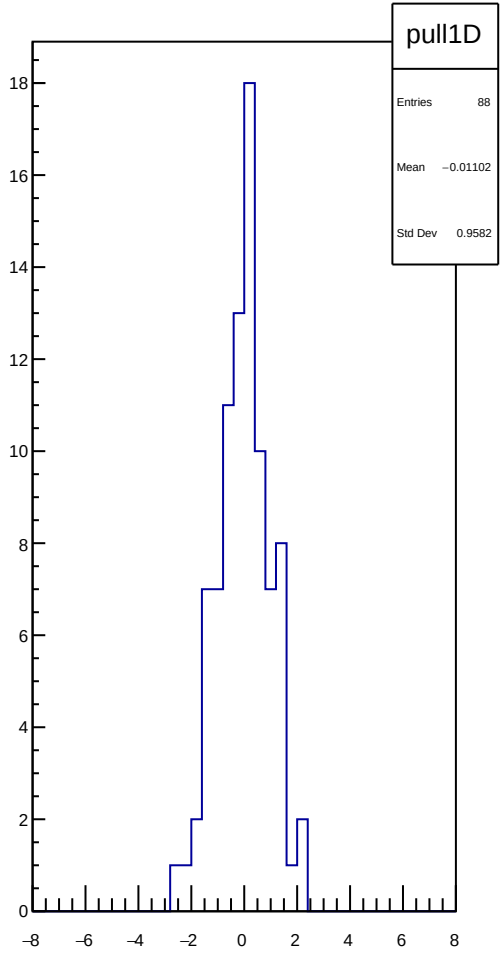

pull1D
Entries 88
Mean −0.005464
Std Dev 0.9101
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

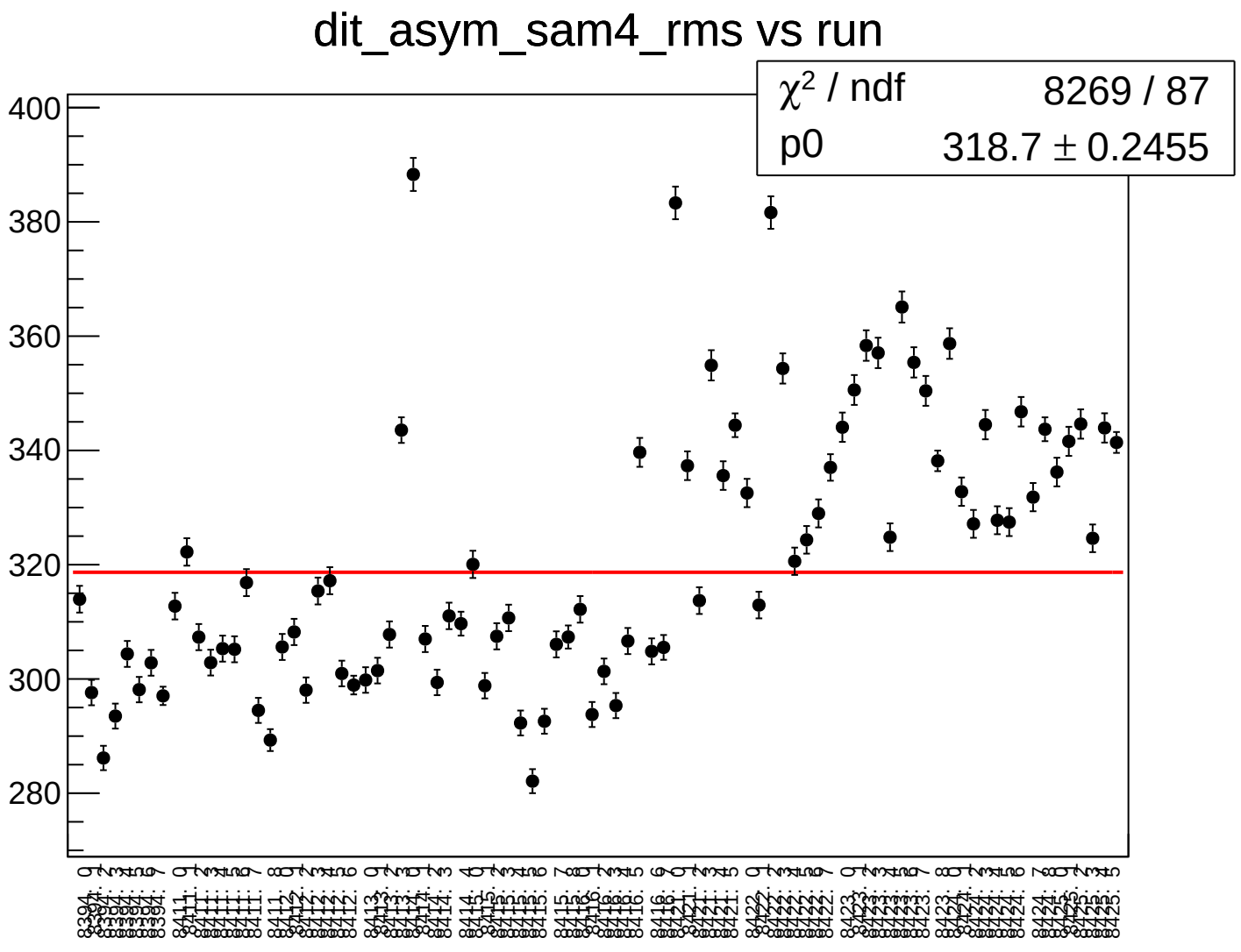

eigen_cor_asym_sam4_rms vs run
χ^2 / ndf 8405 / 87
p0 294.7 ± 0.227
360
340
320
300
280
260

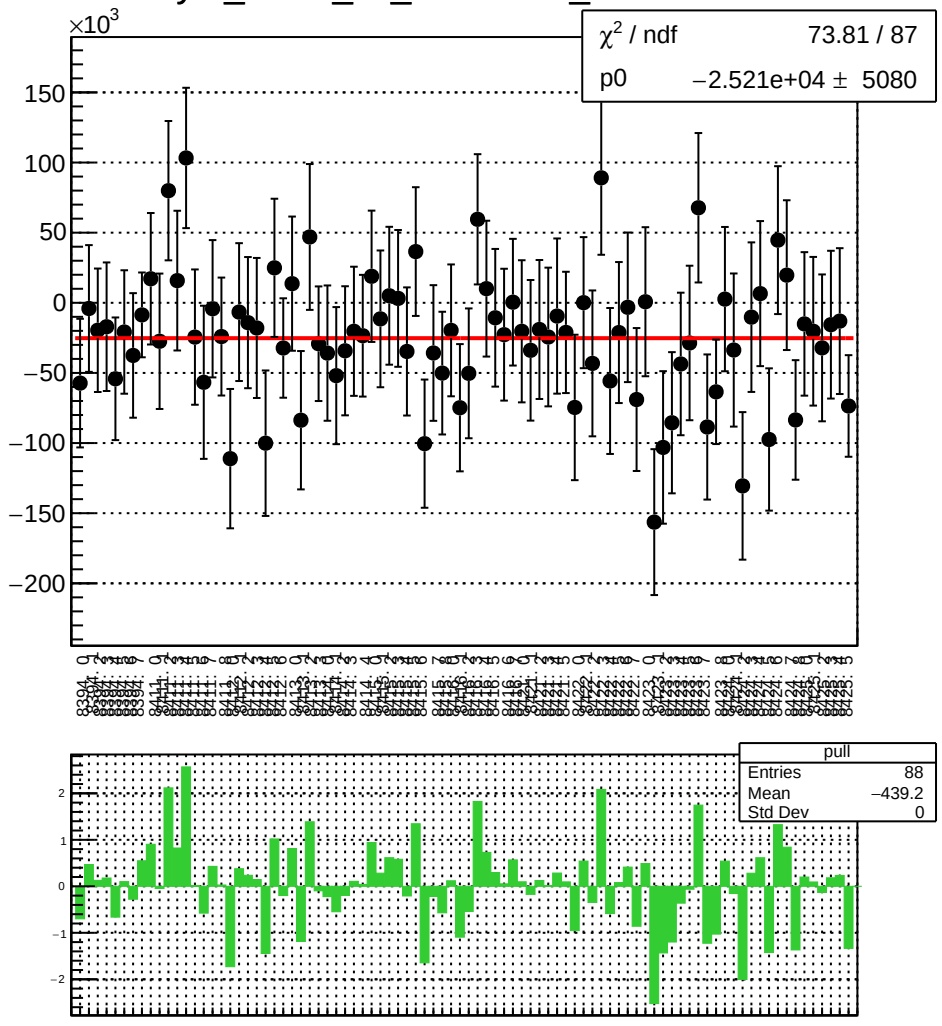

asym_sam4_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 73.6 / 87
p0 −2.434e+04 ± 5017
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −386.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.009662
Std Dev 0.9145
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

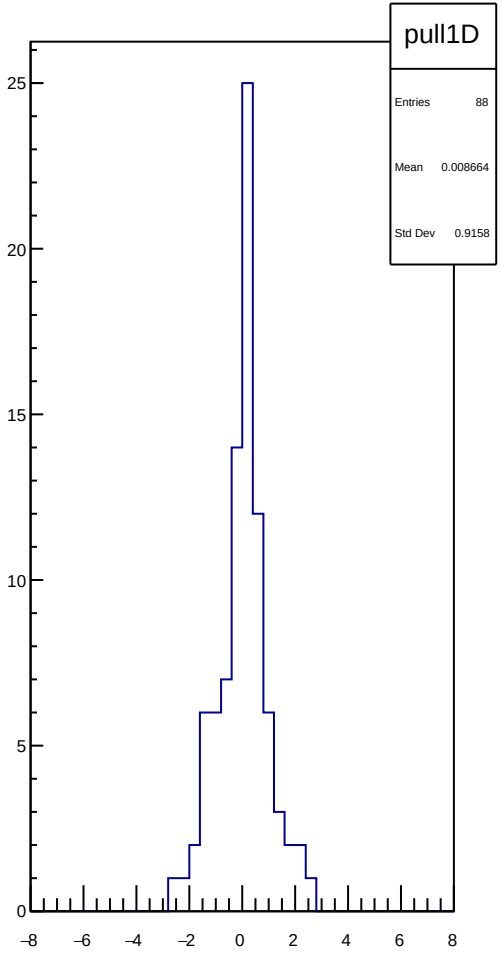

asym_sam4_eigen_cor_correction_rms vs run
χ^2 / ndf 6921 / 87
p0 4606 ± 3.547
5200
5000
4800
4600
4400
4200
4000
3800

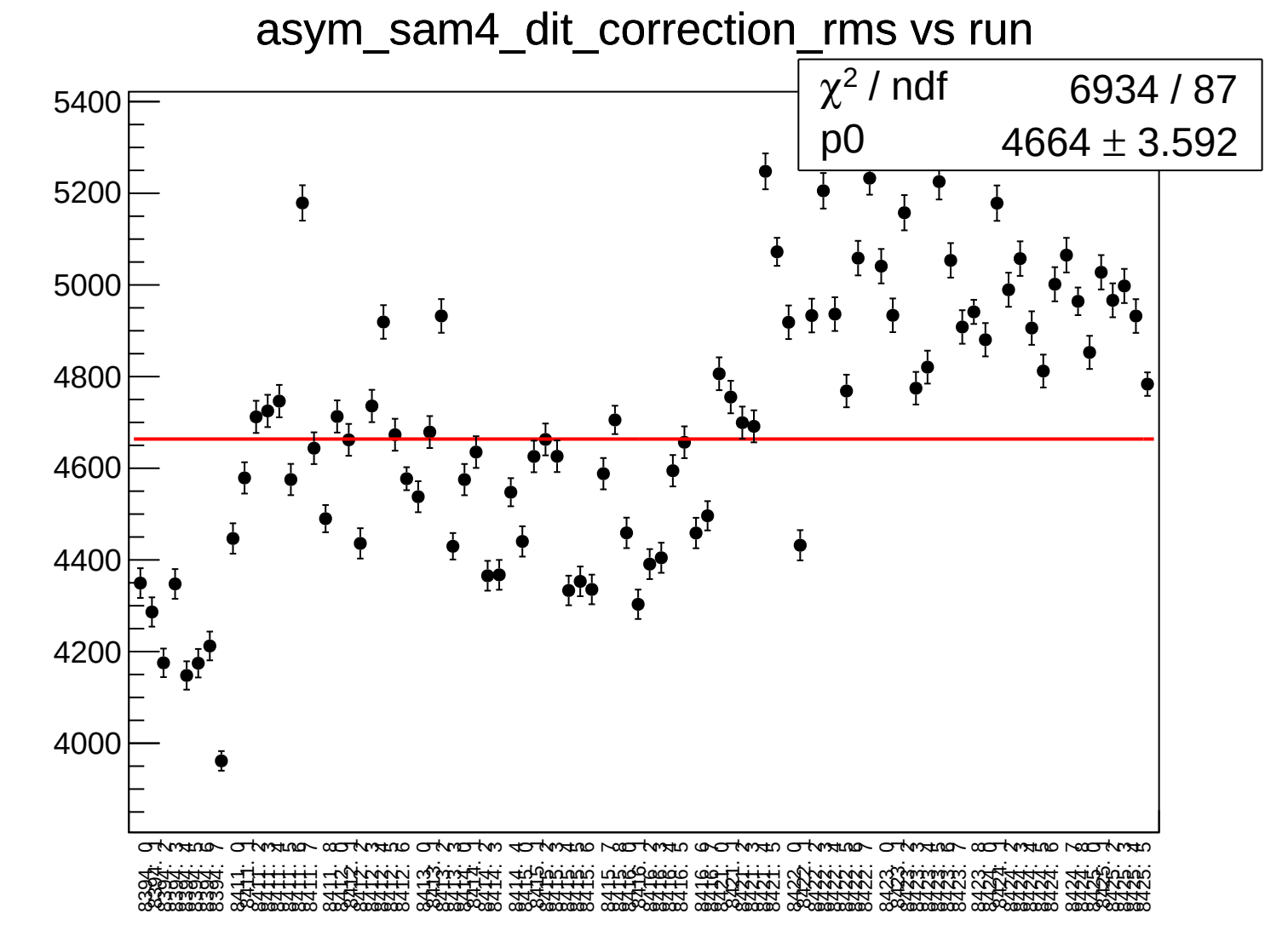

dit_asym_sam4_mean vs run
χ² / ndf 80.82 / 87
p0 166.9 ± 347.2
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −111.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

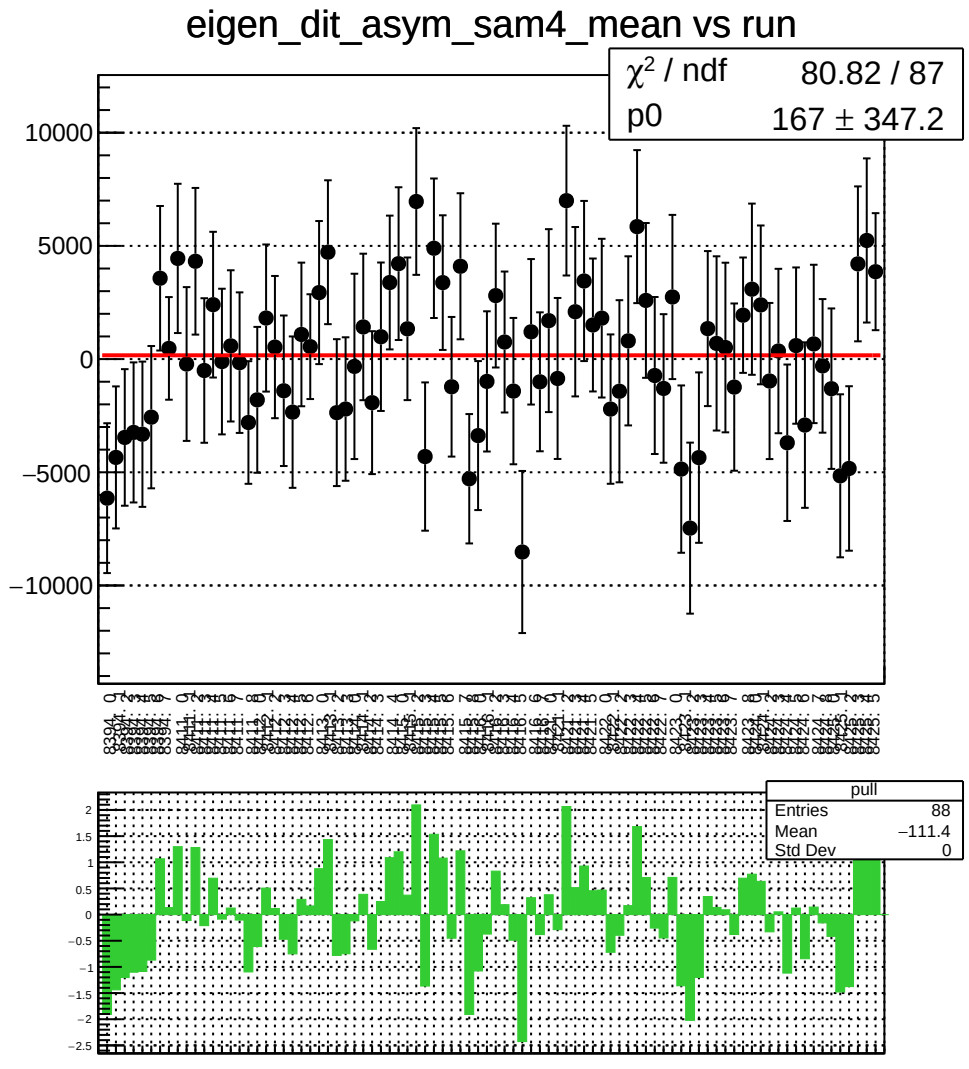

pull1D
Entries 88
Mean −0.01102
Std Dev 0.9582
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

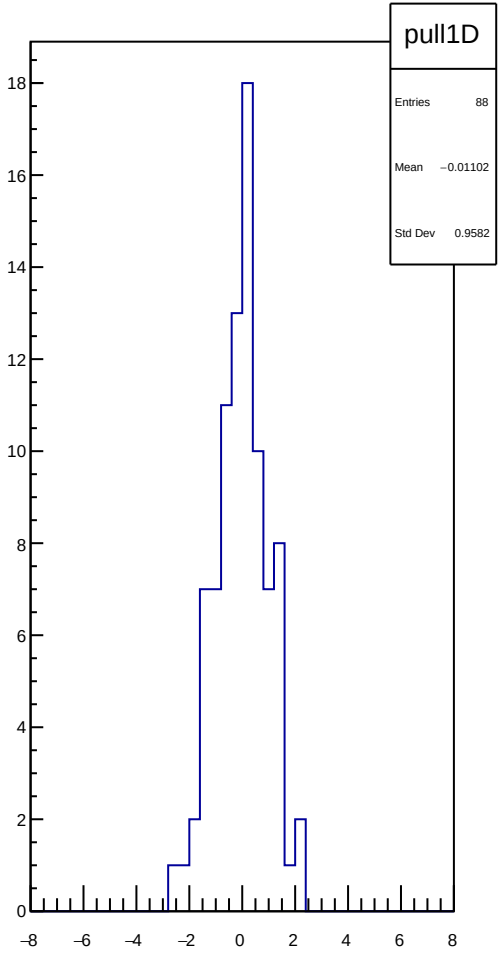

dit_asym_sam4_rms vs run
χ² / ndf 8269 / 87
p0 318.7 ± 0.2455
400
380
360
340
320
300
280

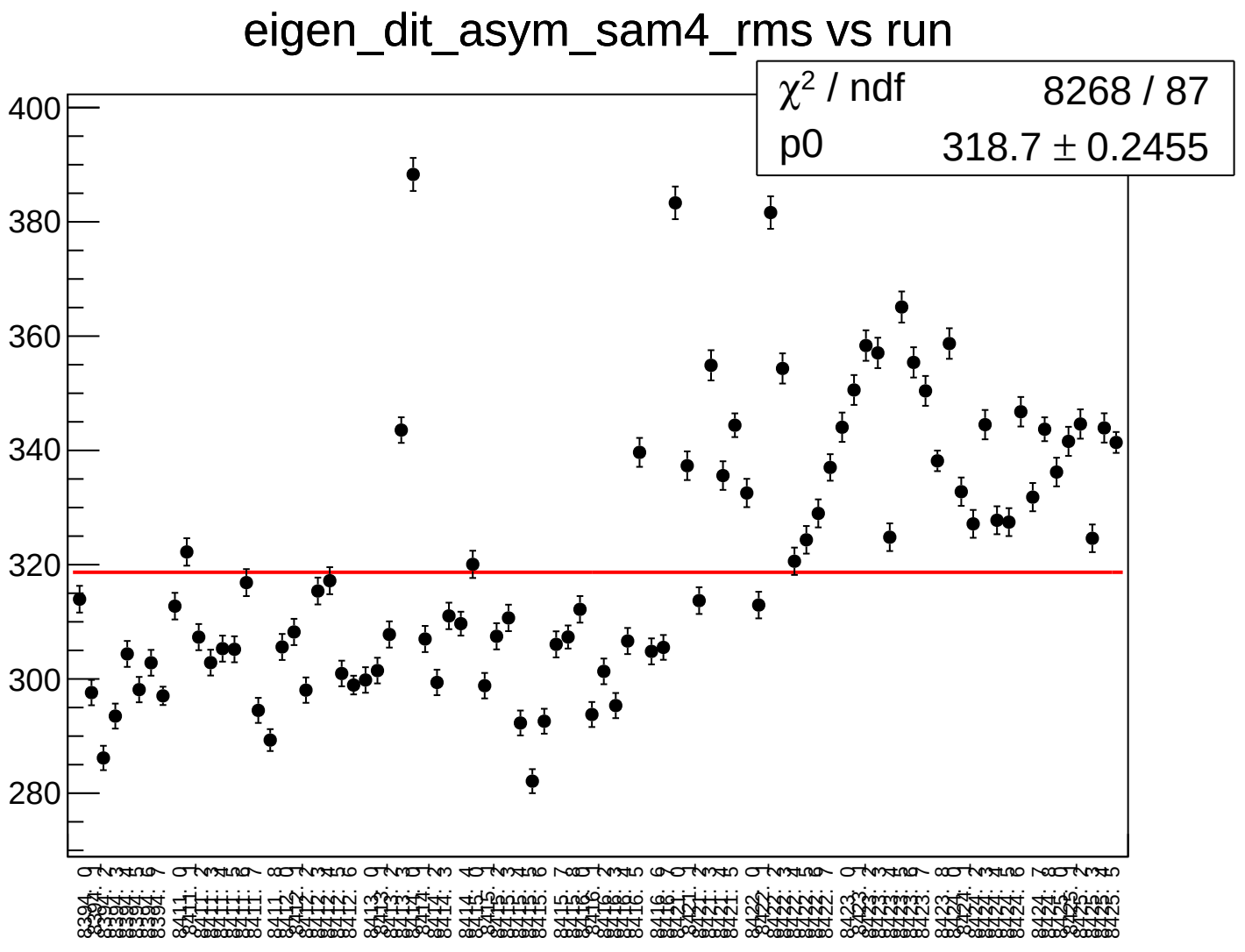

asym_sam4_dit_correction_mean vs run
×10^3
χ² / ndf 73.81 / 87
p0 −2.521e+04 ± 5080
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −439.2
Std Dev 0
2
1
0
−1
−2

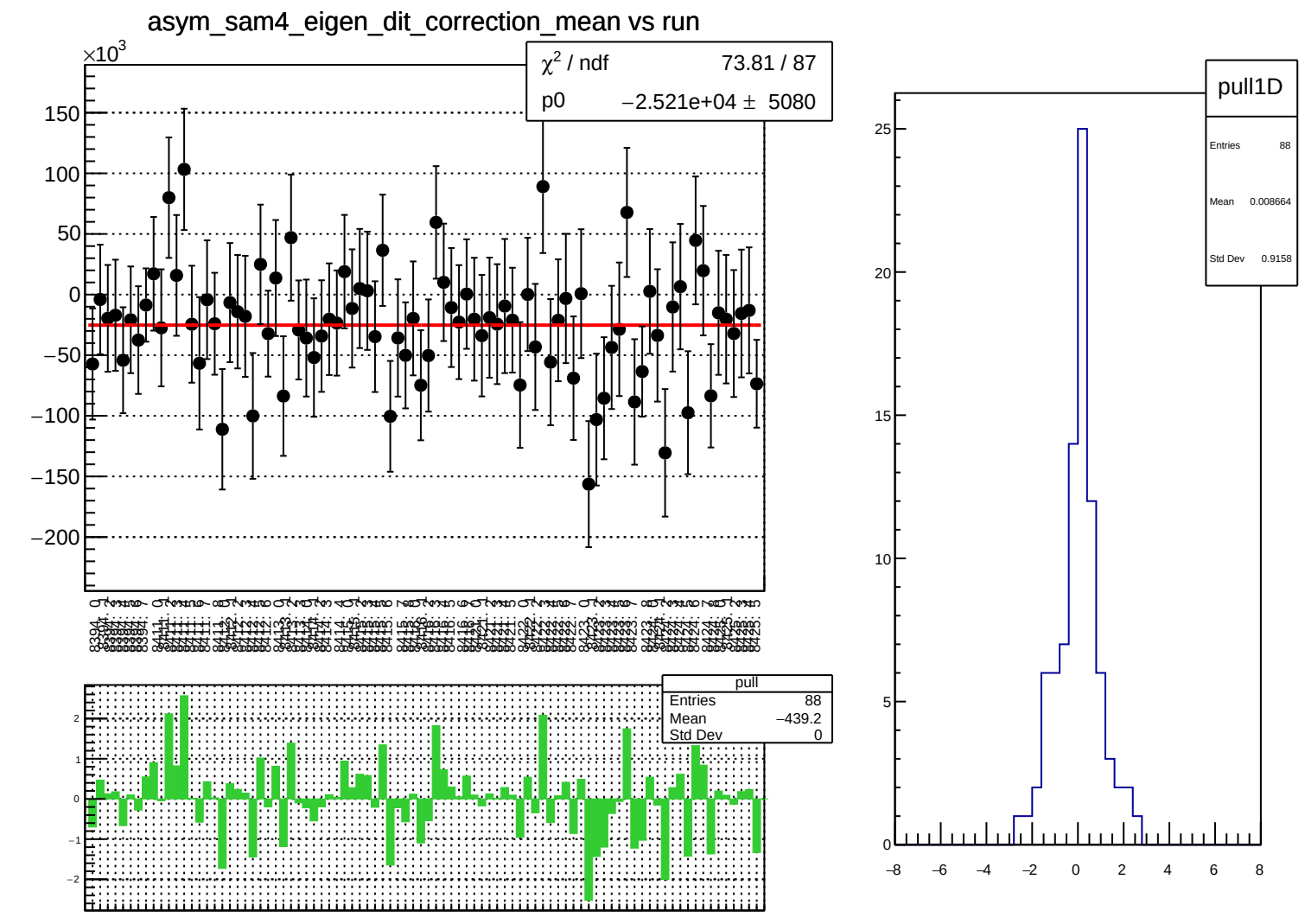

pull1D
Entries 88
Mean 0.008664
Std Dev 0.9158
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

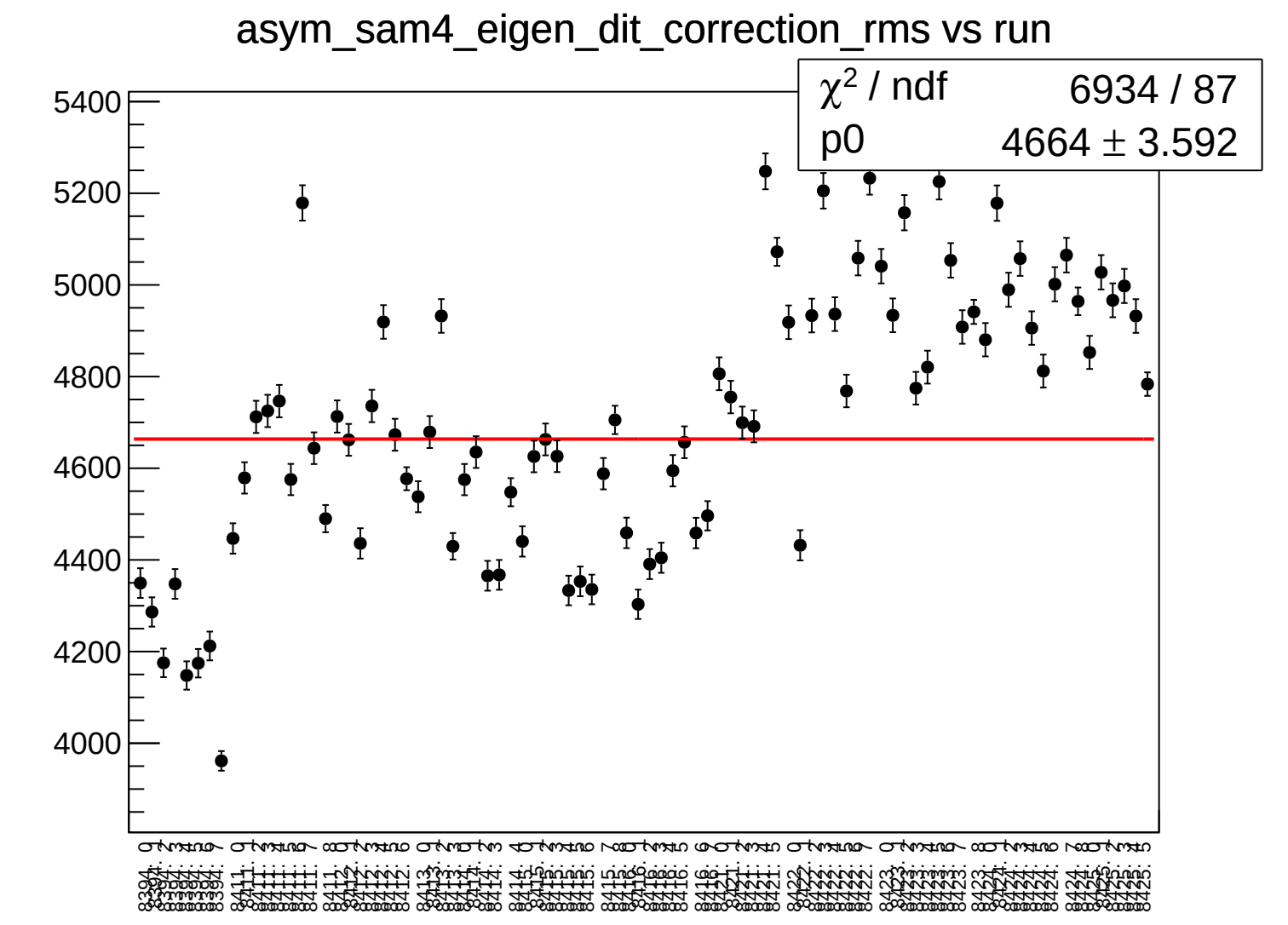

asym_sam4_dit_correction_rms vs run
χ² / ndf 6934 / 87
p0 4664 ± 3.592
5400
5200
5000
4800
4600
4400
4200
4000

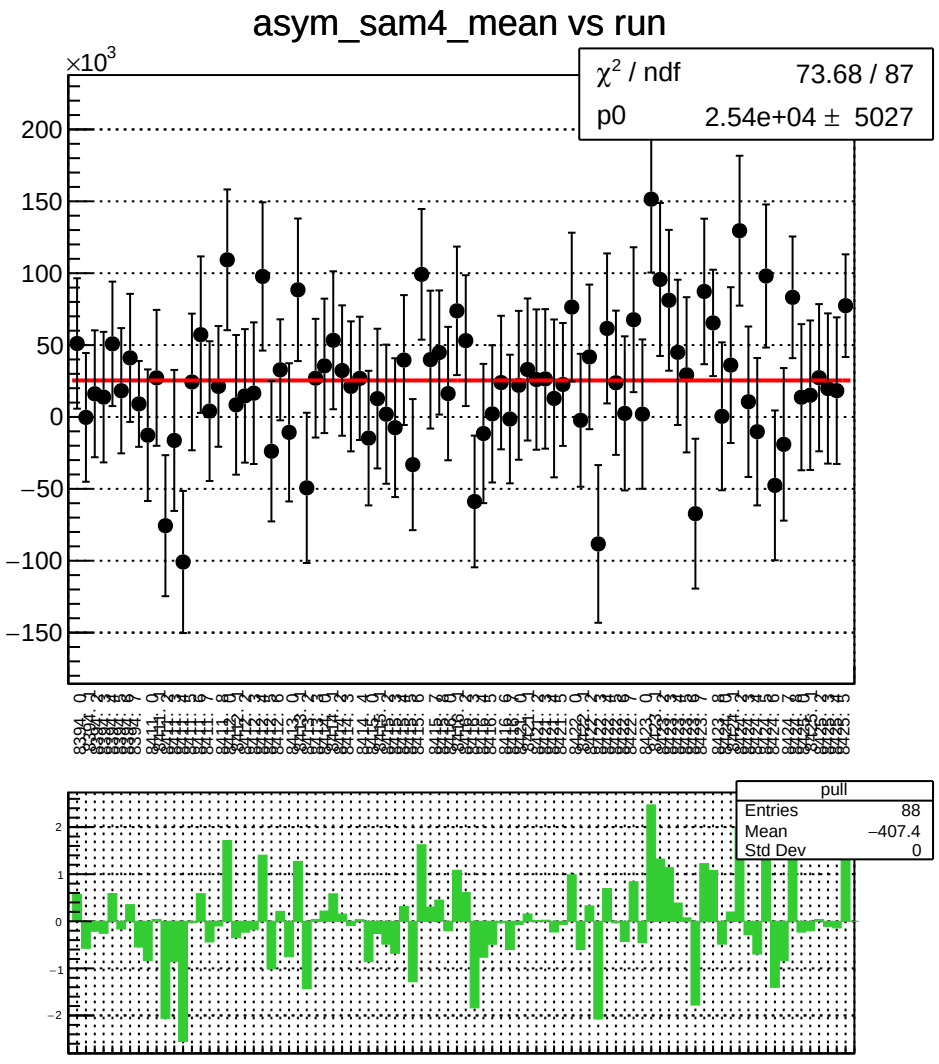

eigen_dit_asym_sam4_mean vs run
χ² / ndf 80.82 / 87
p0 167 ± 347.2
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −111.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

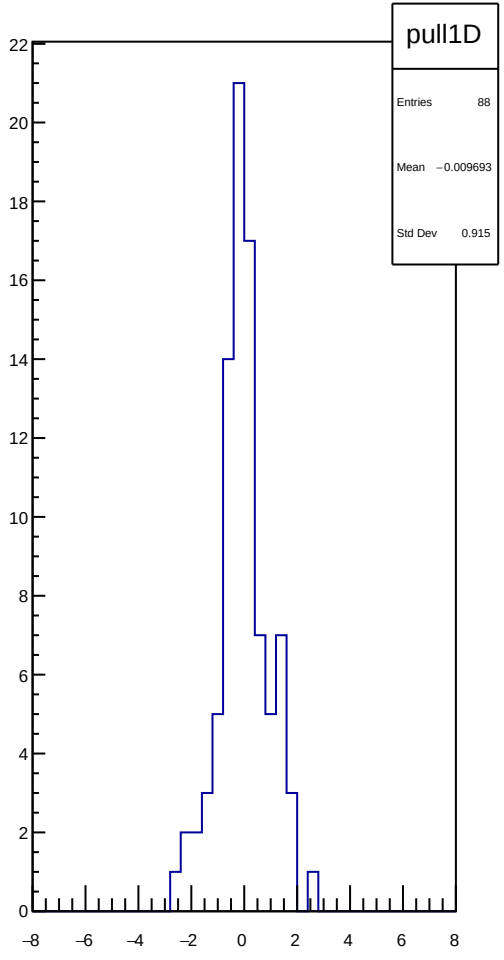

pull1D
Entries 88
Mean −0.01102
Std Dev 0.9582
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

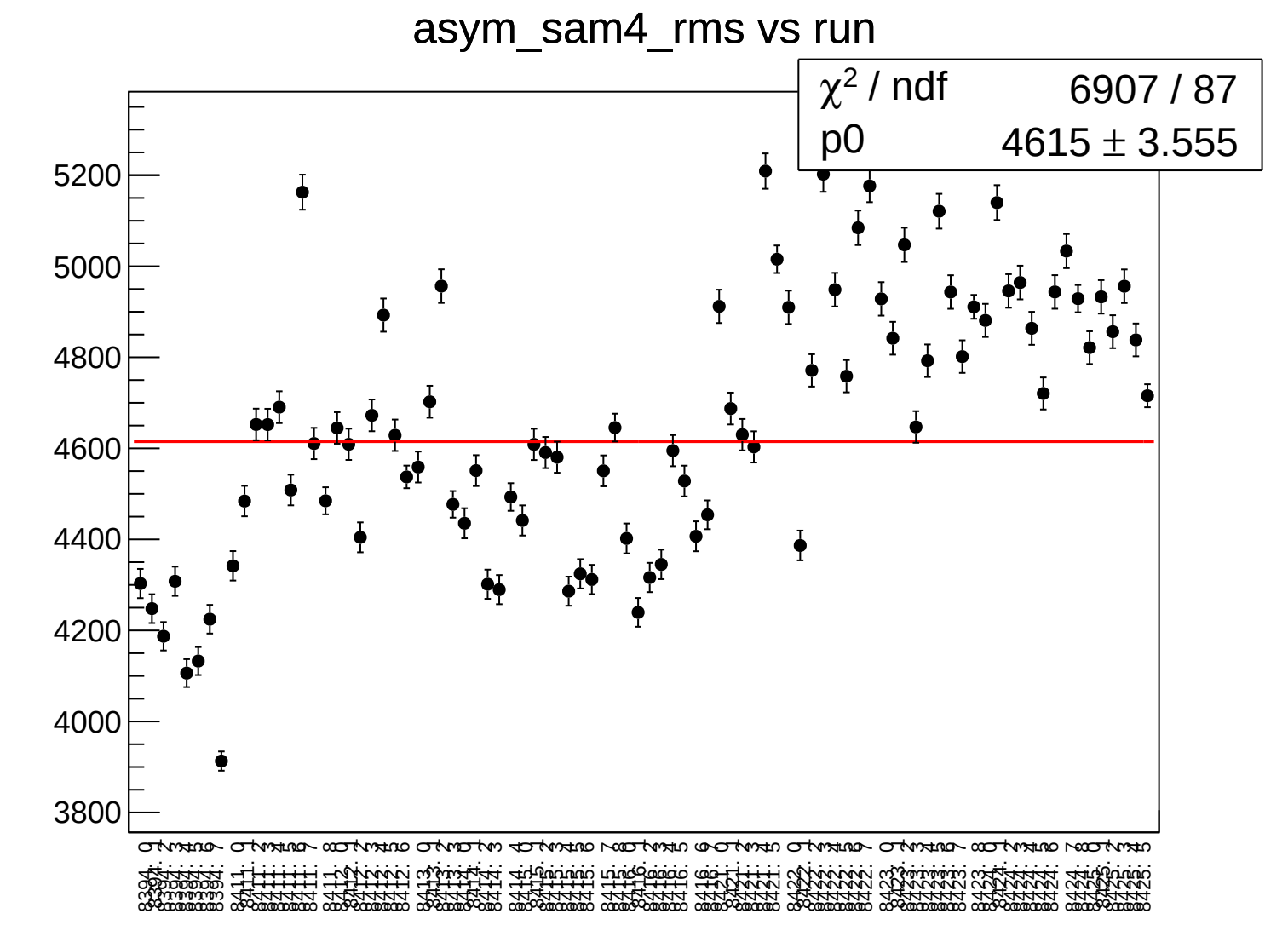

eigen_dit_asym_sam4_rms vs run
χ² / ndf 8268 / 87
p0 318.7 ± 0.2455
400
380
360
340
320
300
280

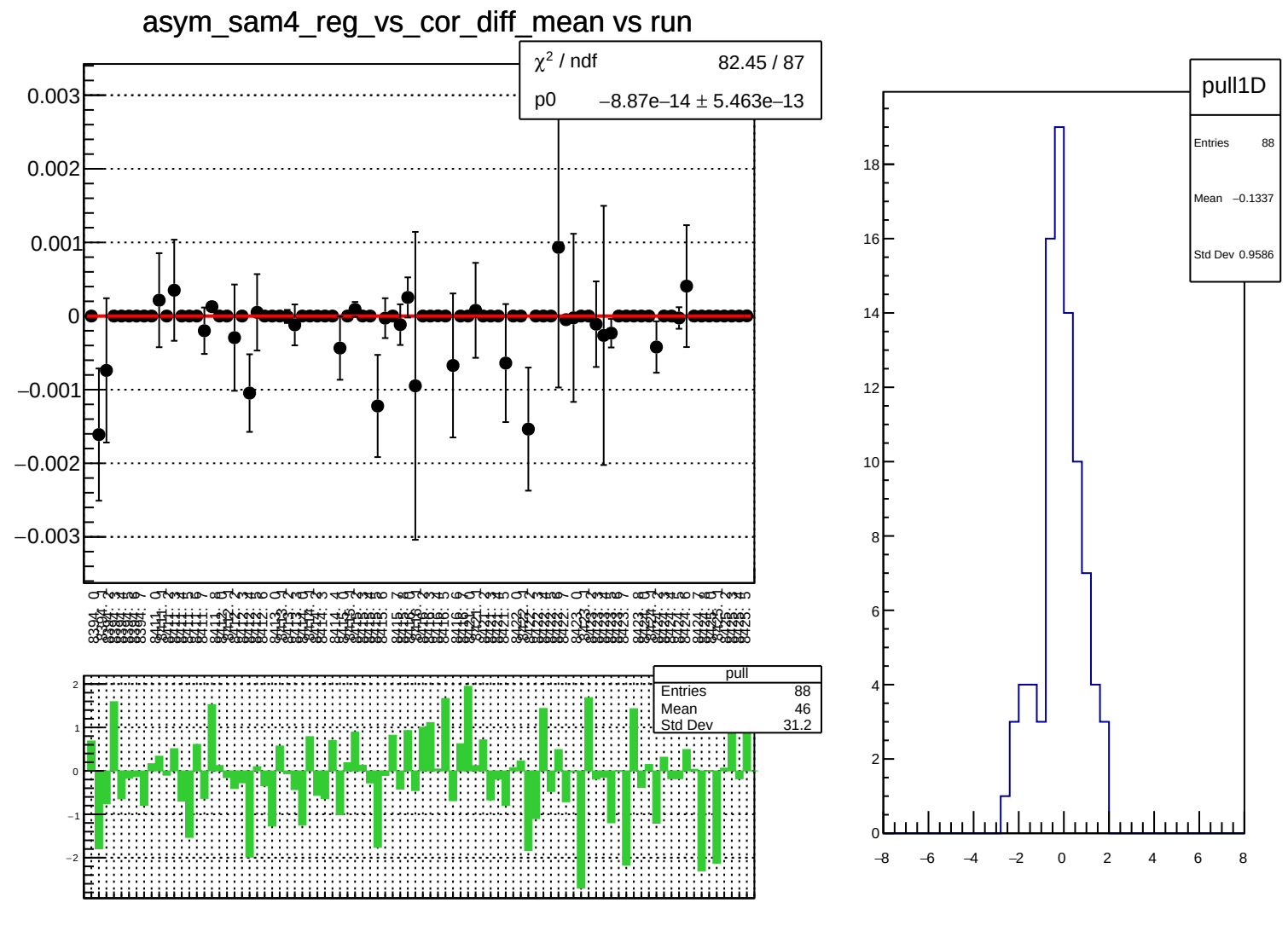

asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 73.81 / 87
p0 −2.521e+04 ± 5080
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −439.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.008664
Std Dev 0.9158
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

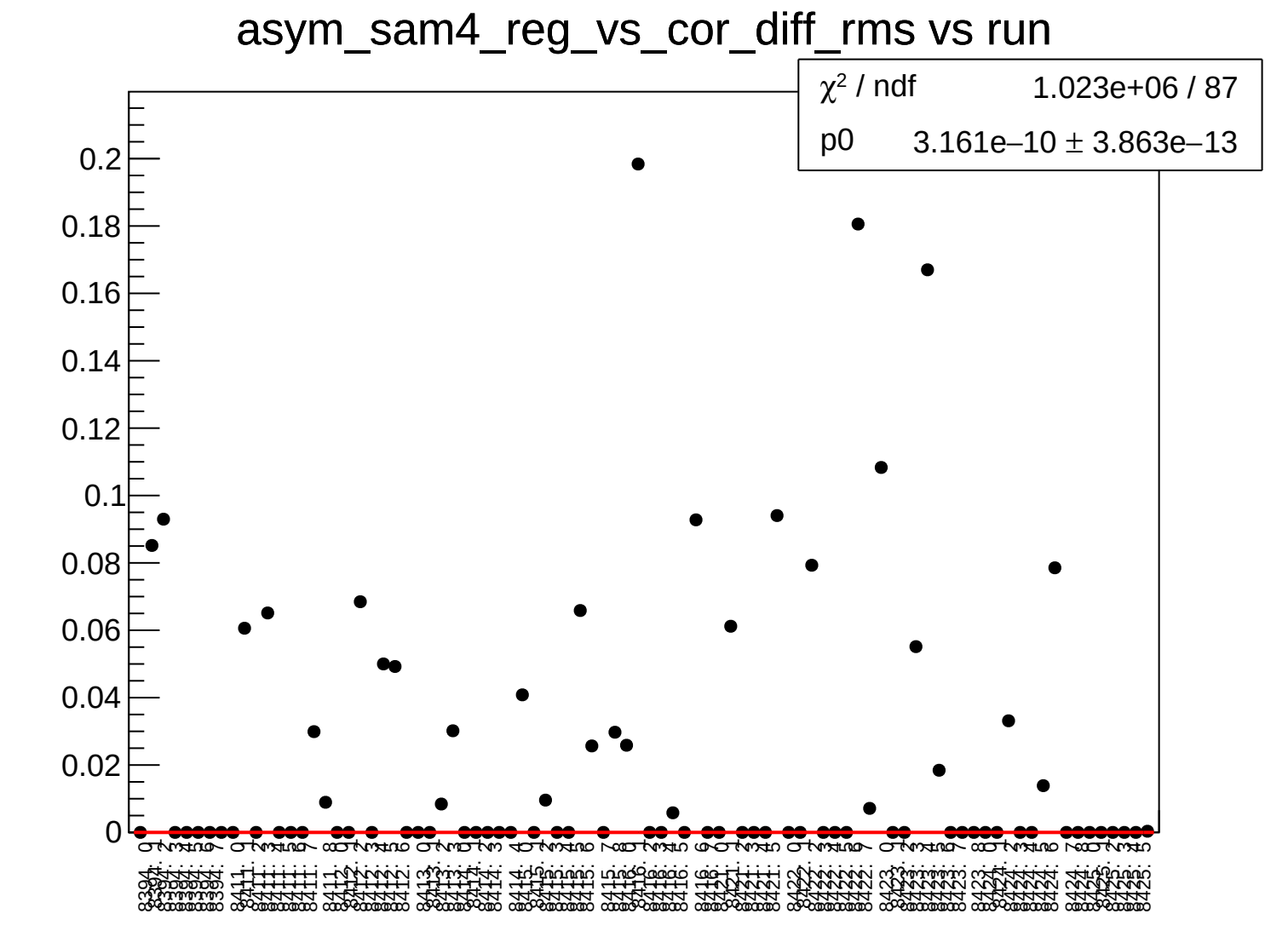

asym_sam4_eigen_dit_correction_rms vs run
χ^2 / ndf 6934 / 87
p0 4664 ± 3.592
5400
5200
5000
4800
4600
4400
4200
4000

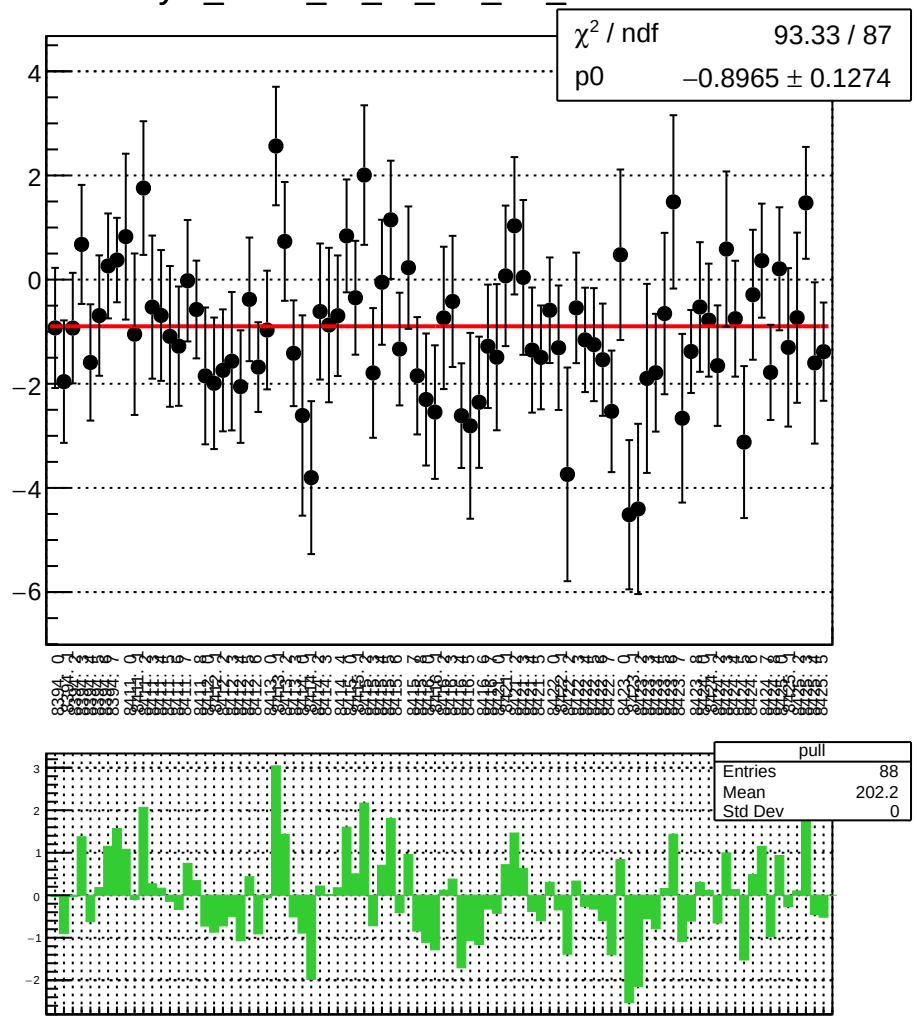

asym_sam4_mean vs run
×10^3
χ² / ndf 73.68 / 87
p0 2.54e+04 ± 5027
200
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −407.4
Std Dev 0
2
1
0
−1
−2

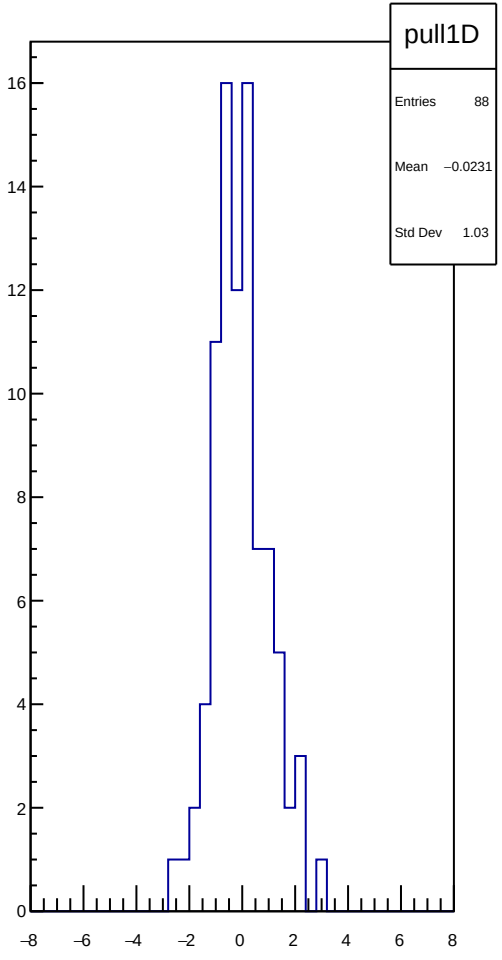

pull1D
Entries 88
Mean −0.009693
Std Dev 0.915
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

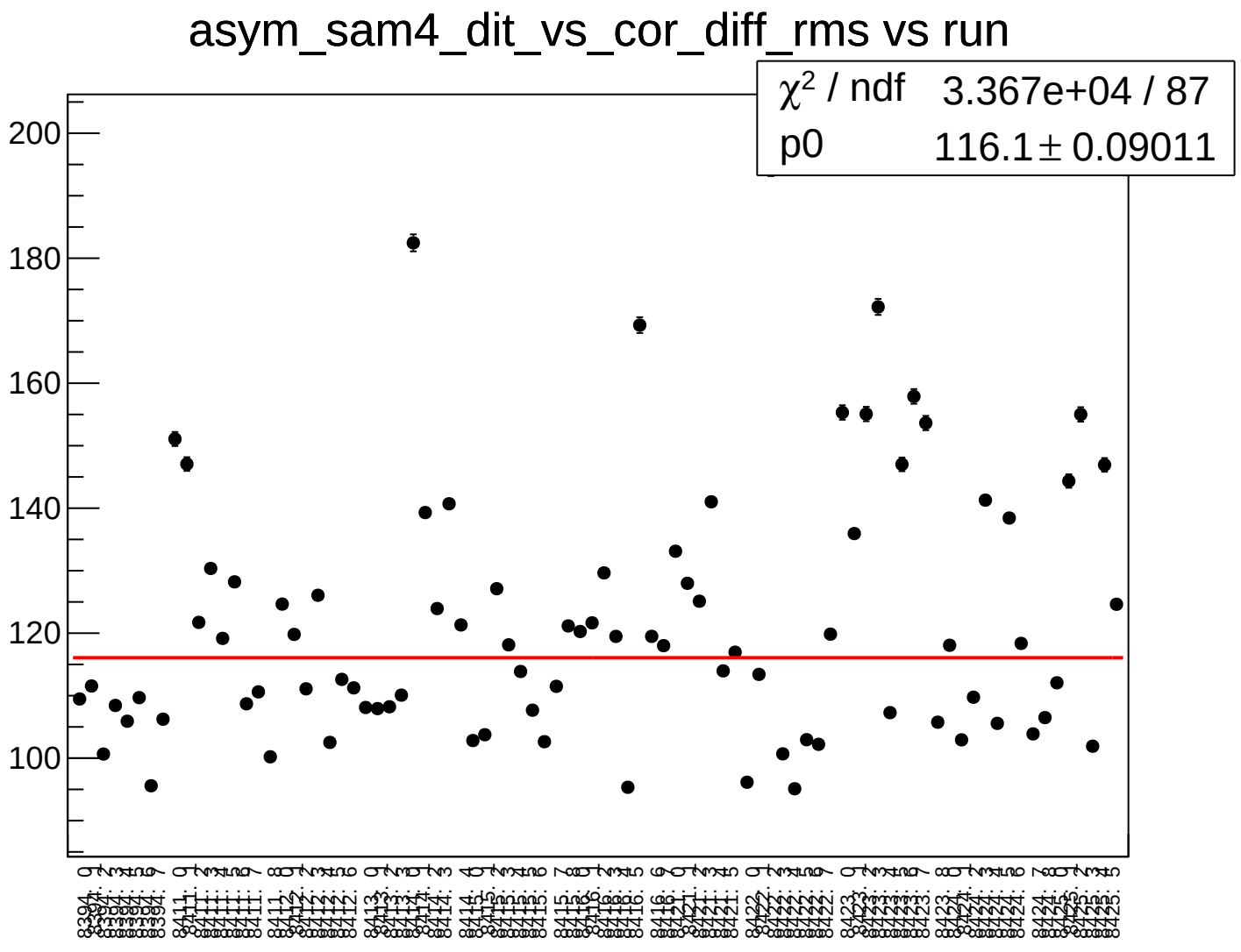

asym_sam4_rms vs run
χ^2 / ndf 6907 / 87
p0 4615 ± 3.555
5200
5000
4800
4600
4400
4200
4000
3800

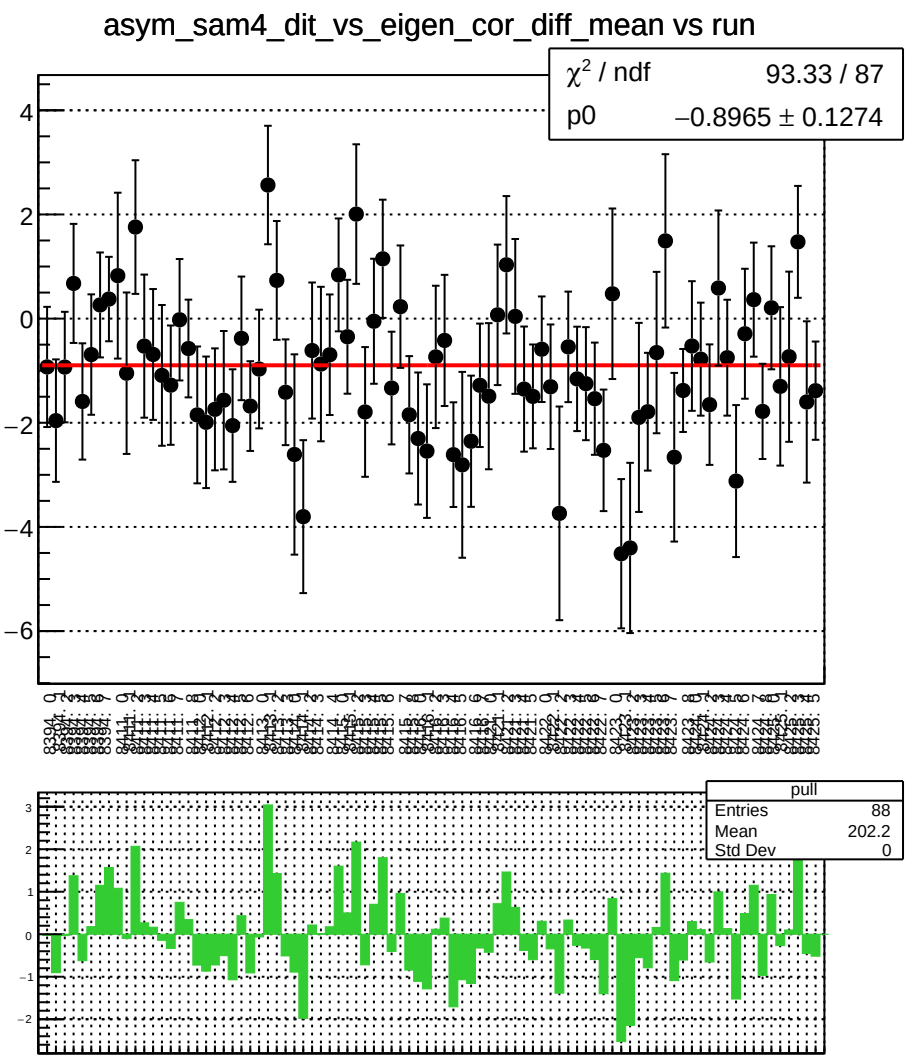

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 82.45 / 87
p0 −8.87e−14 ± 5.463e−13
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 88
Mean 46
Std Dev 31.2
pull1D
Entries 88
Mean −0.1337
Std Dev 0.9586

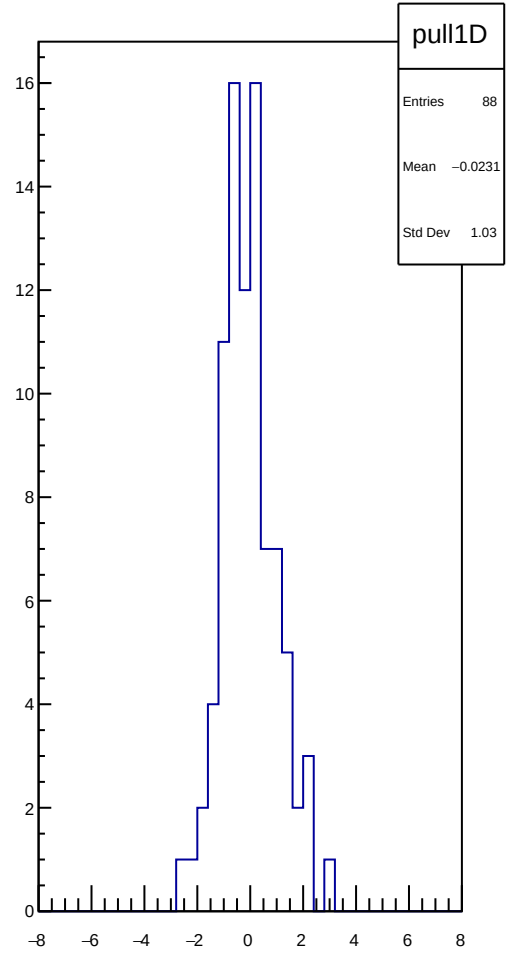

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 1.023e+06 / 87
p0 3.161e−10 ± 3.863e−13
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

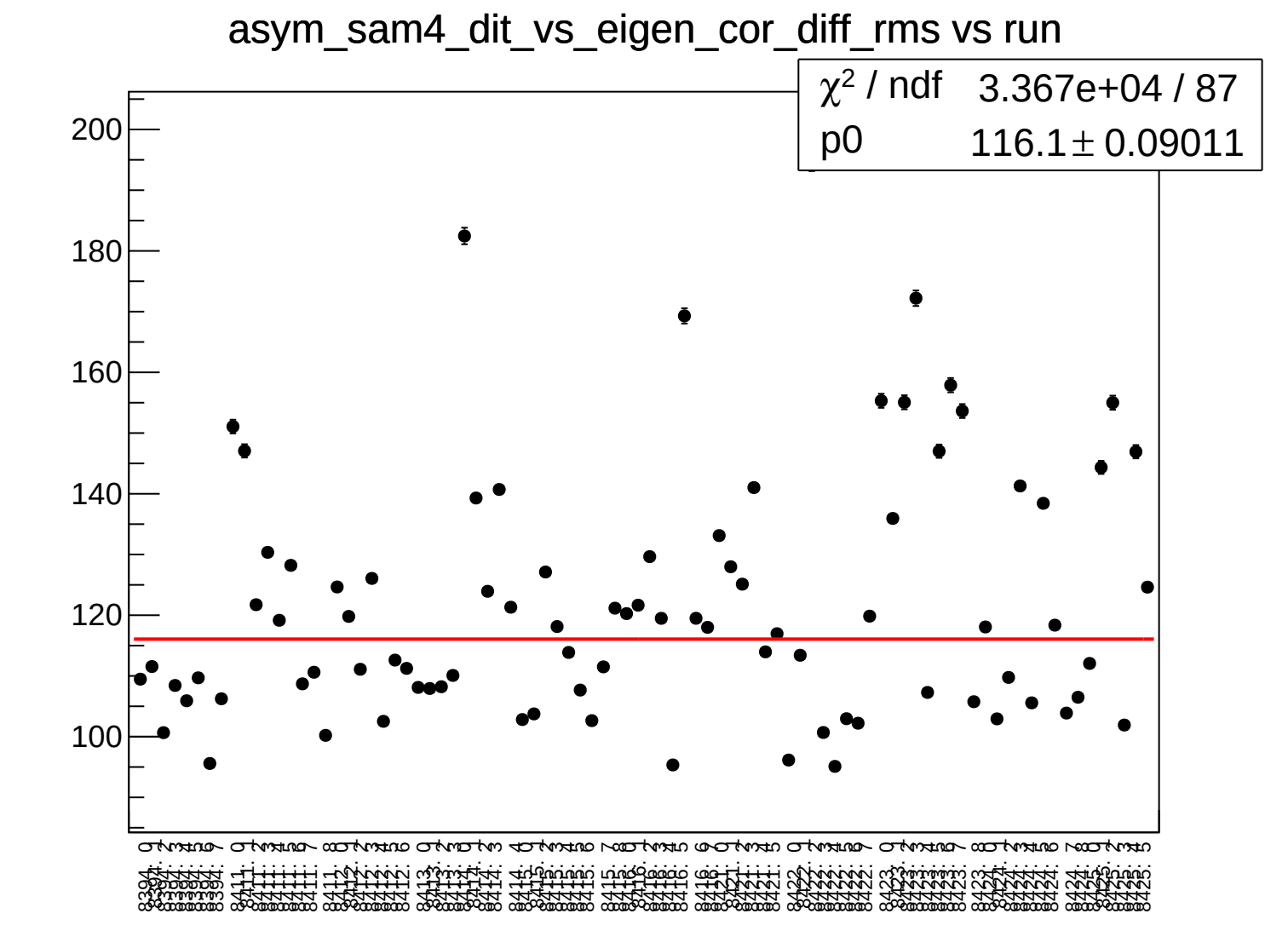

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 93.33 / 87
p0 −0.8965 ± 0.1274
pull
Entries 88
Mean 202.2
Std Dev 0

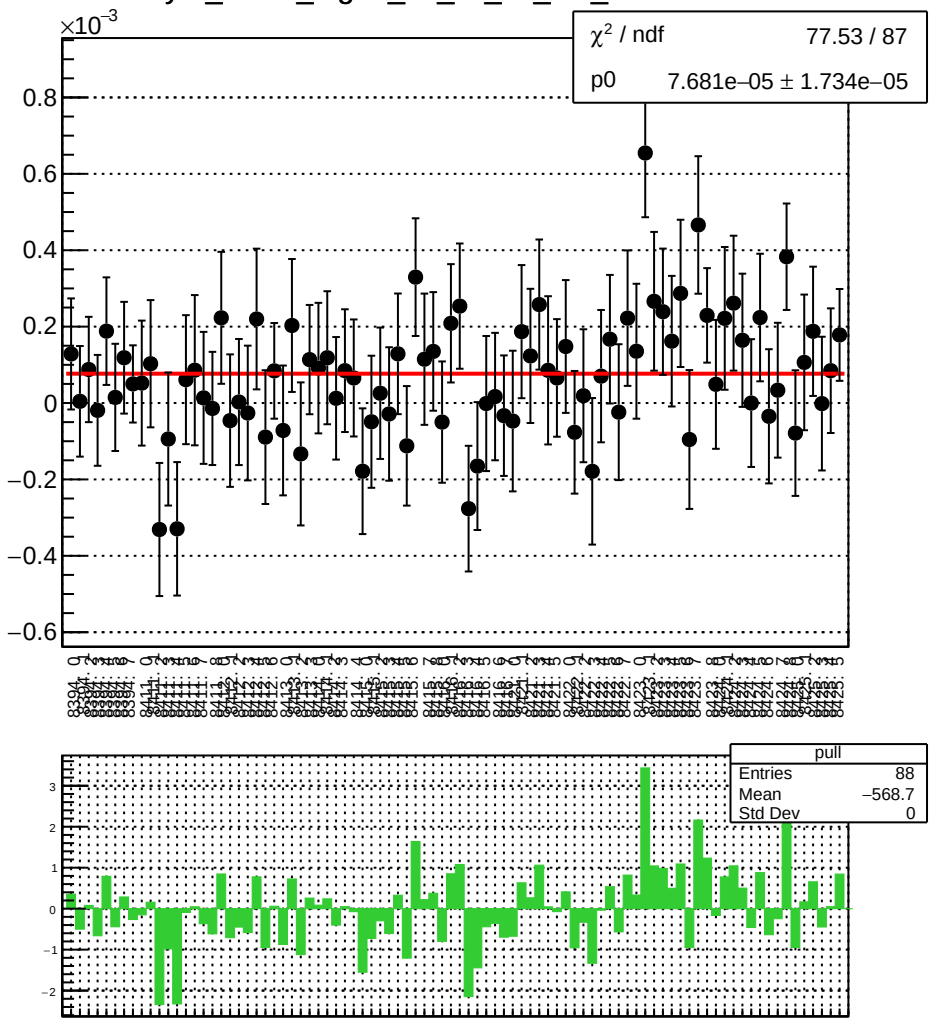

pull1D
Entries 88
Mean −0.0231
Std Dev 1.03

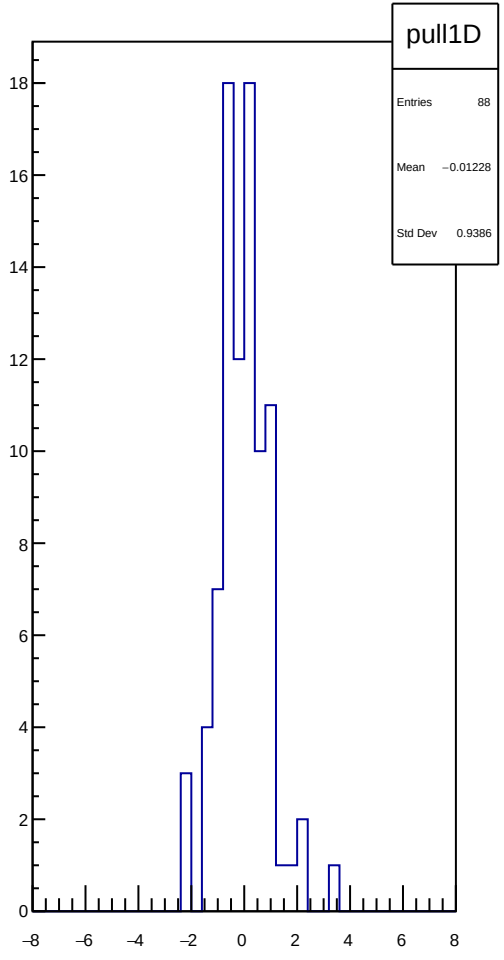

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 3.367e+04 / 87
p0 116.1 ± 0.09011
200
180
160
140
120
100

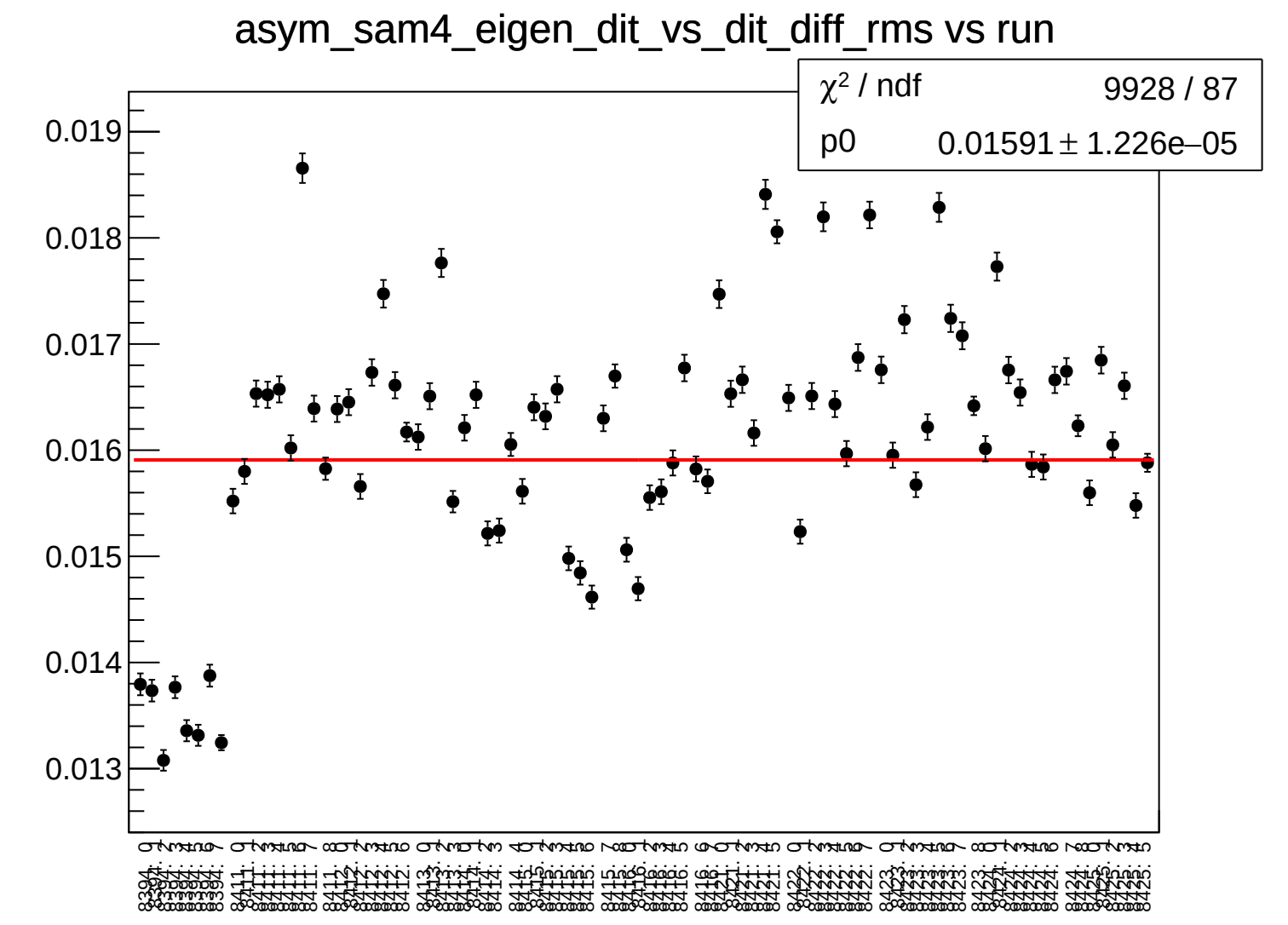

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.33 / 87
p0 −0.8965 ± 0.1274
pull
Entries 88
Mean 202.2
Std Dev 0

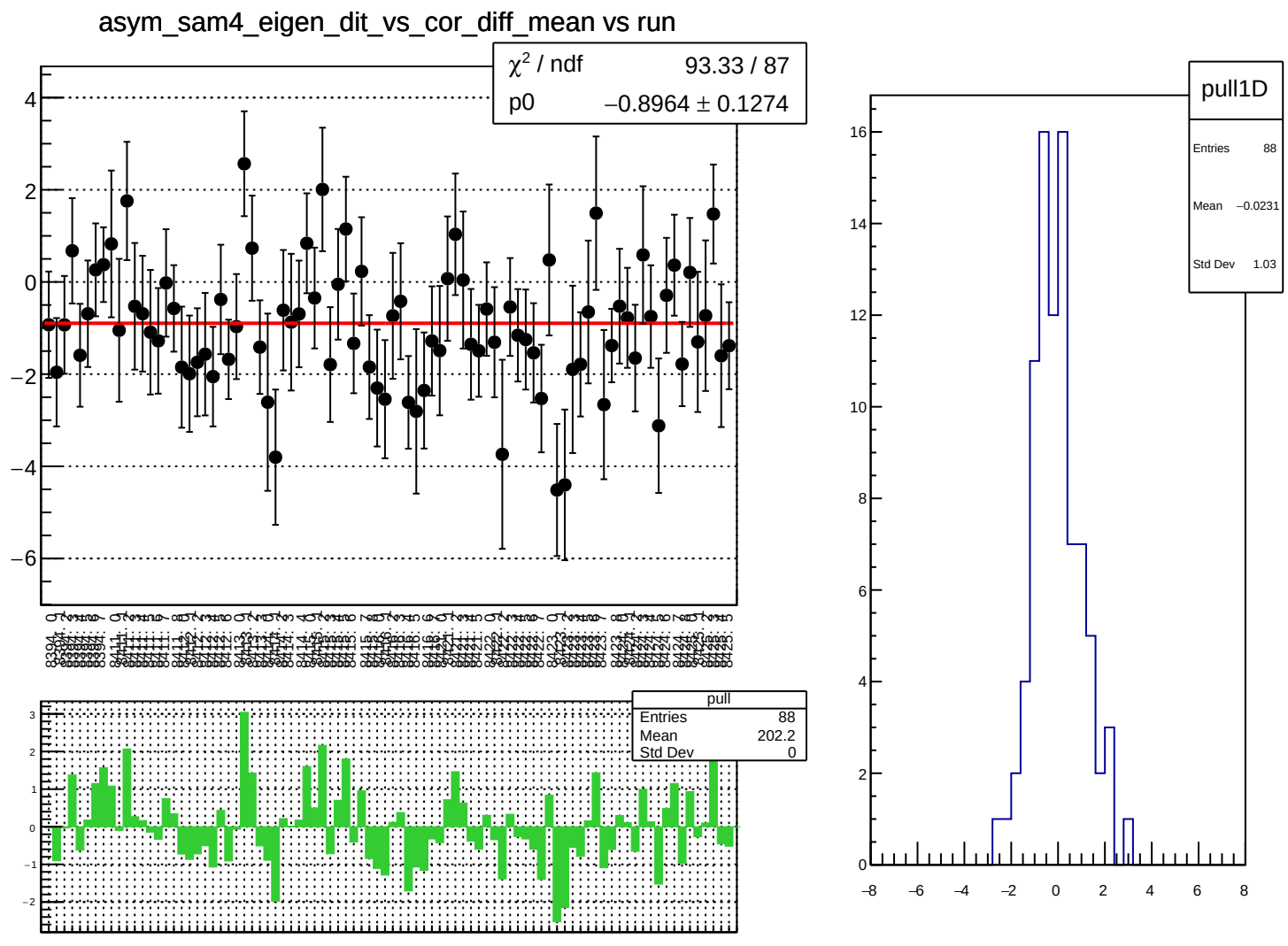

pull1D
Entries 88
Mean −0.0231
Std Dev 1.03

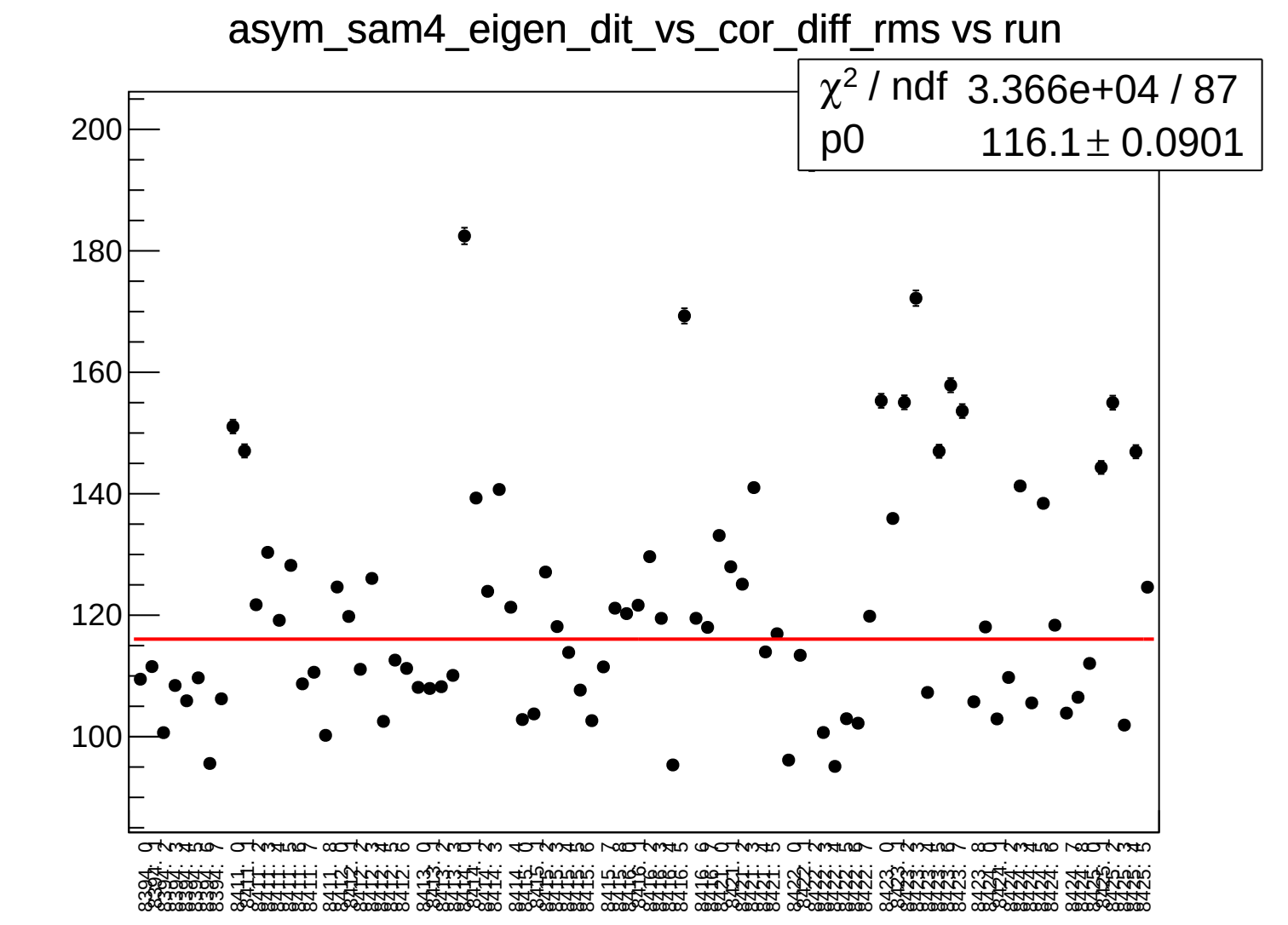

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.367e+04 / 87
p0 116.1 ± 0.09011
200
180
160
140
120
100

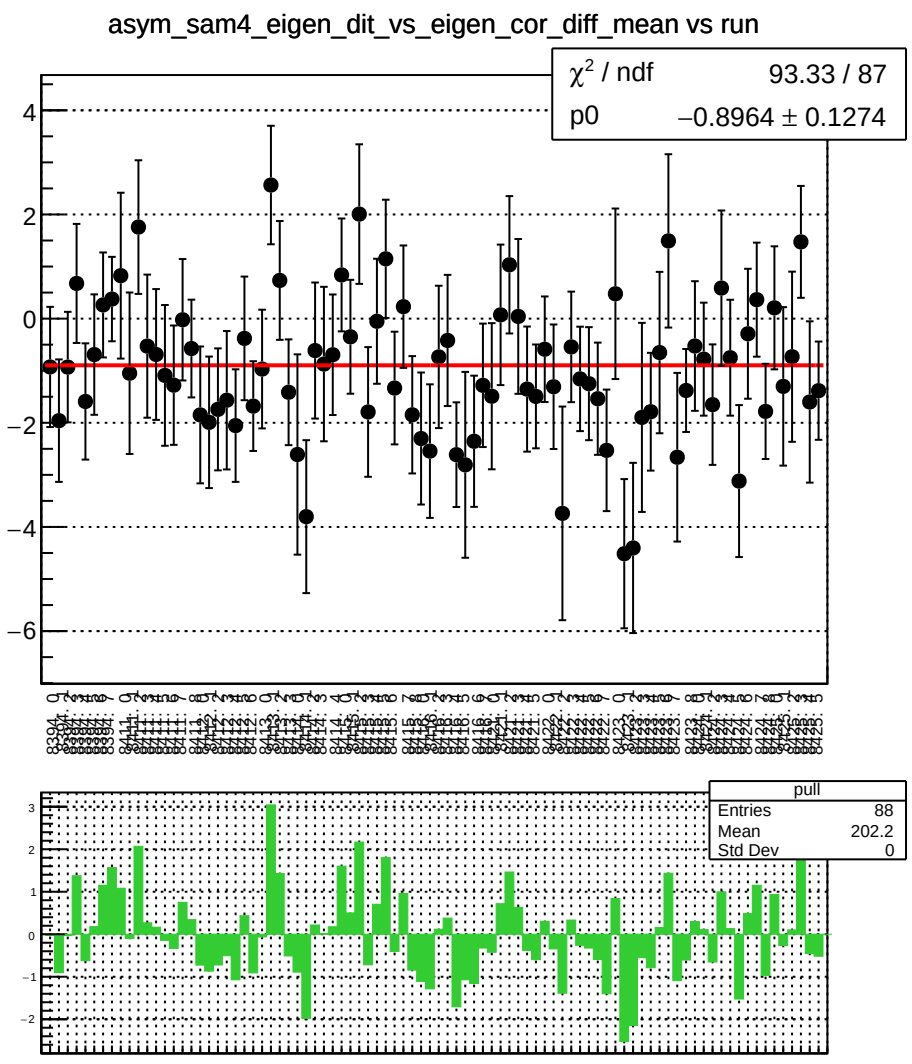

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.53 / 87
p0 7.681e−05 ± 1.734e−05
pull
Entries 88
Mean −568.7
Std Dev 0

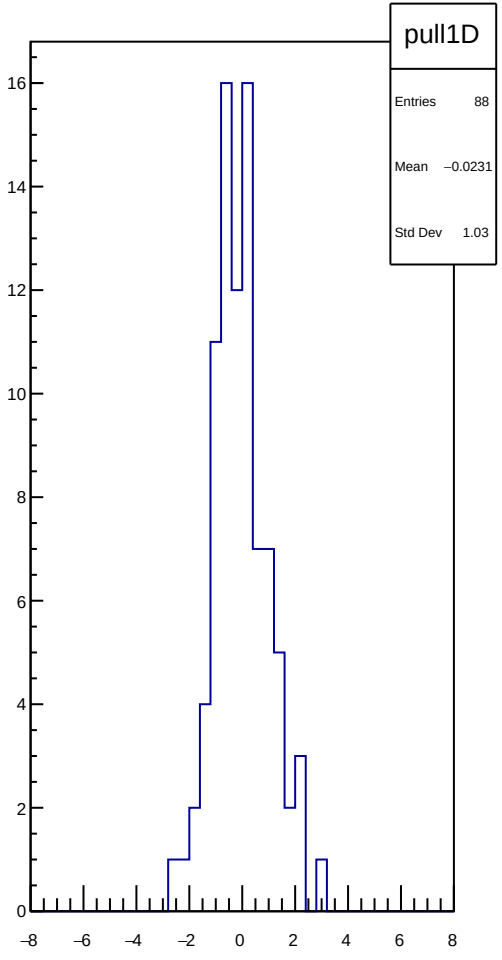

pull1D
Entries 88
Mean −0.01228
Std Dev 0.9386

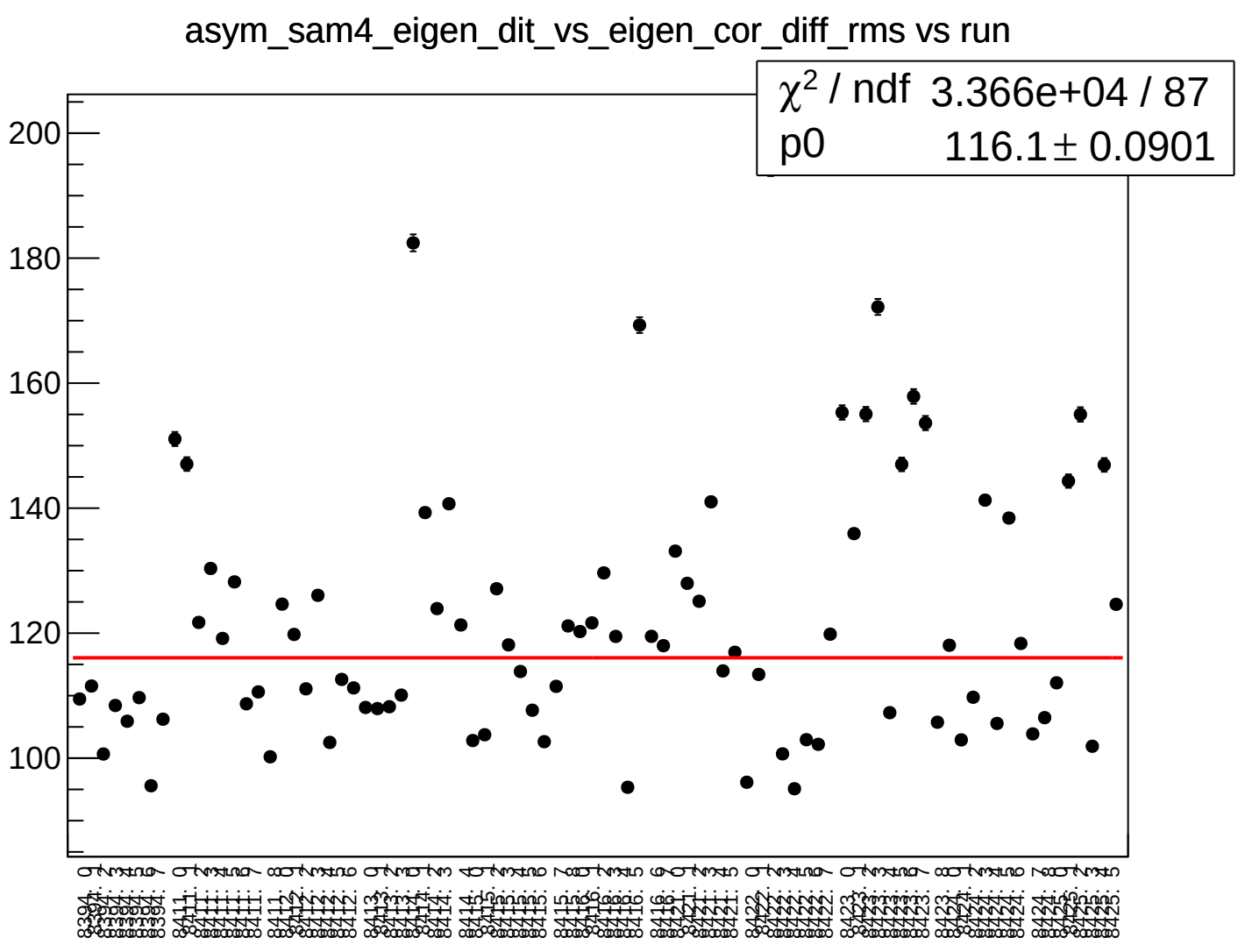

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9928 / 87
p0 0.01591 ± 1.226e−05
0.019
0.018
0.017
0.016
0.015
0.014
0.013

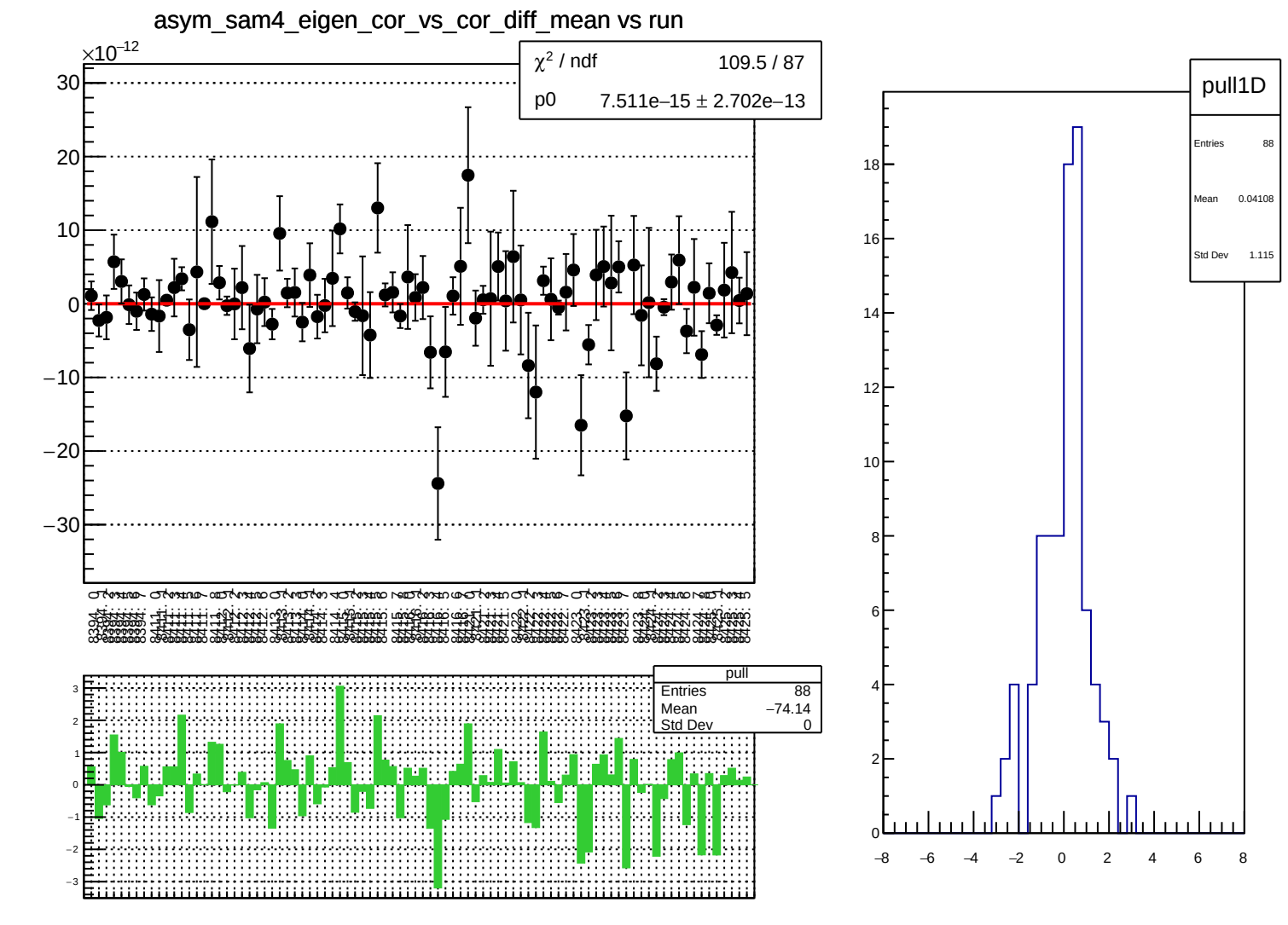

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.33 / 87
p0 −0.8964 ± 0.1274
pull
Entries 88
Mean 202.2
Std Dev 0
pull1D
Entries 88
Mean −0.0231
Std Dev 1.03

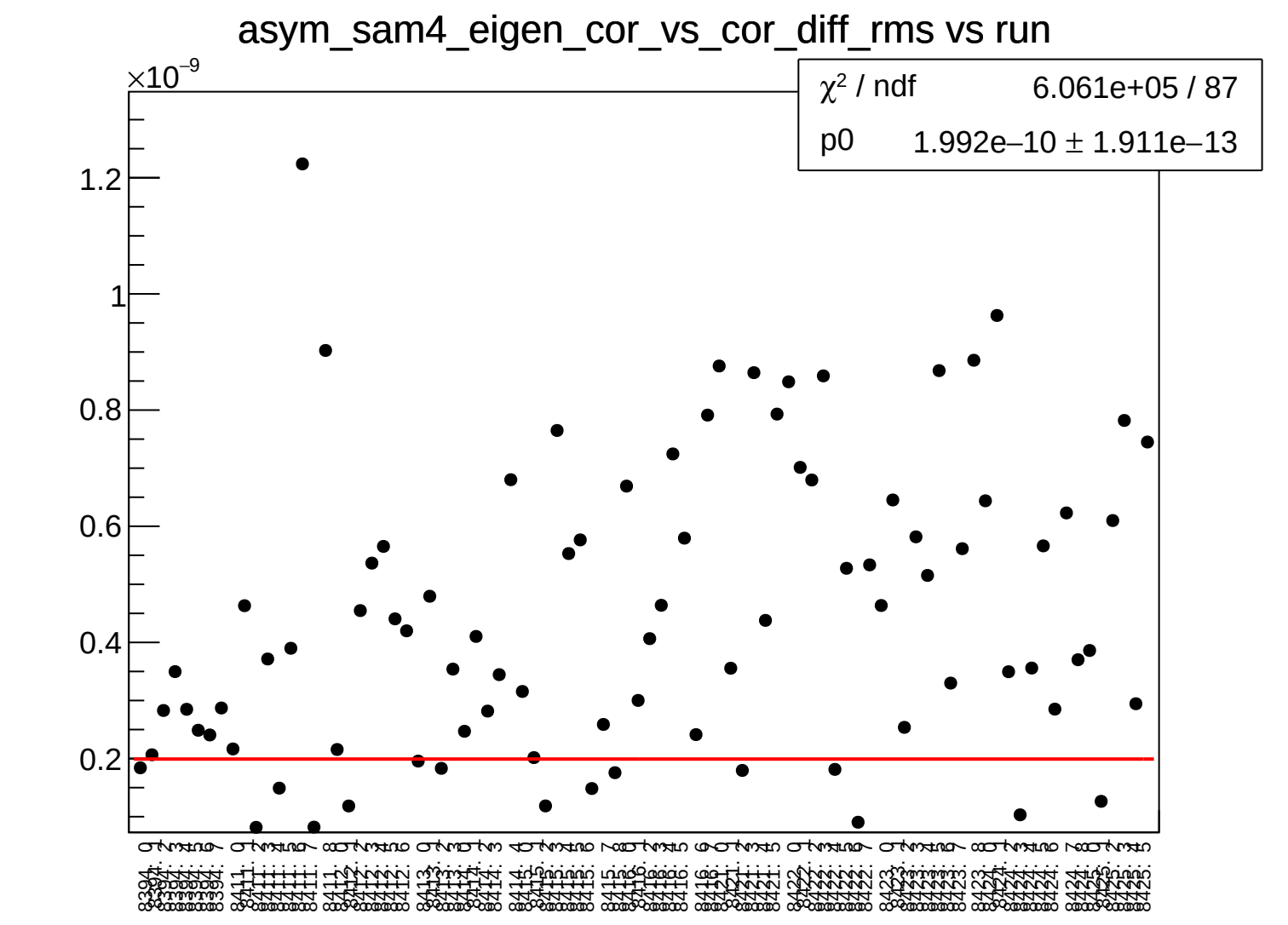

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.366e+04 / 87
p0 116.1 ± 0.0901
200
180
160
140
120
100

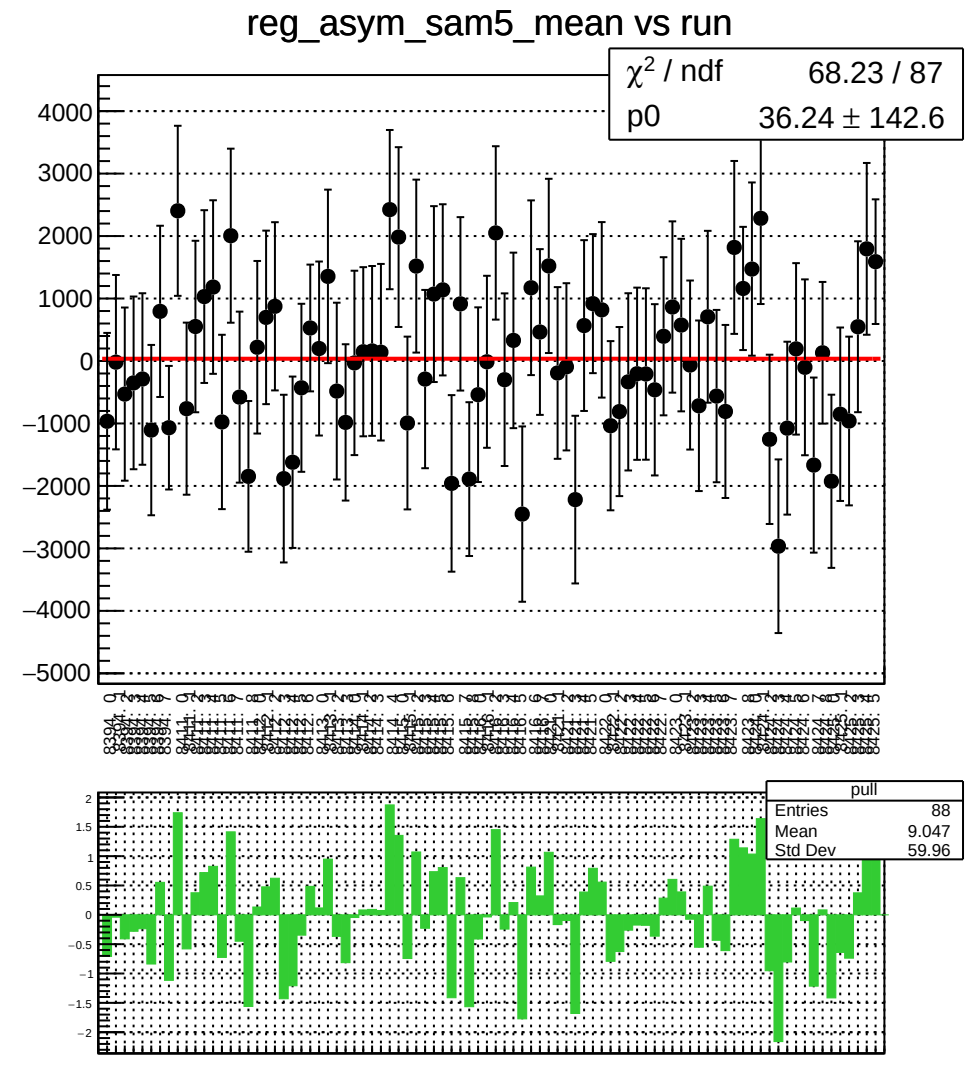

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.33 / 87
p0 −0.8964 ± 0.1274
pull
Entries 88
Mean 202.2
Std Dev 0

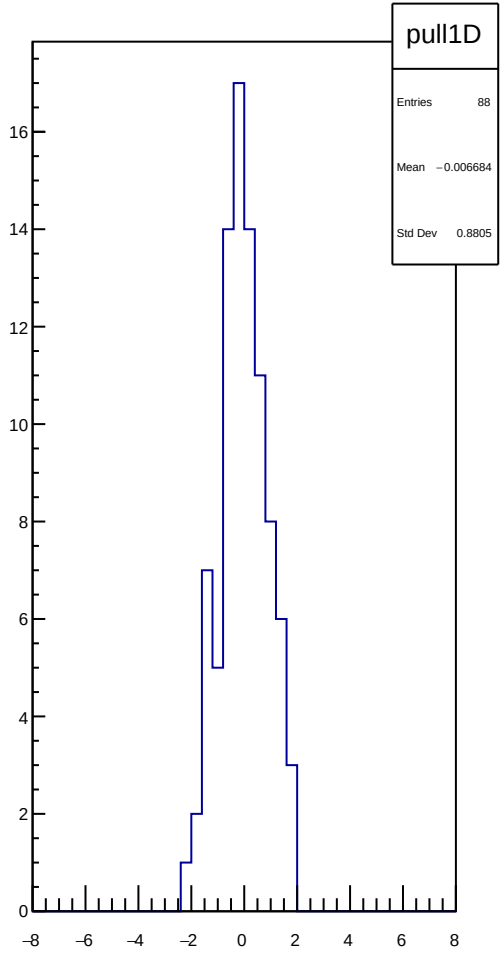

pull1D
Entries 88
Mean −0.0231
Std Dev 1.03

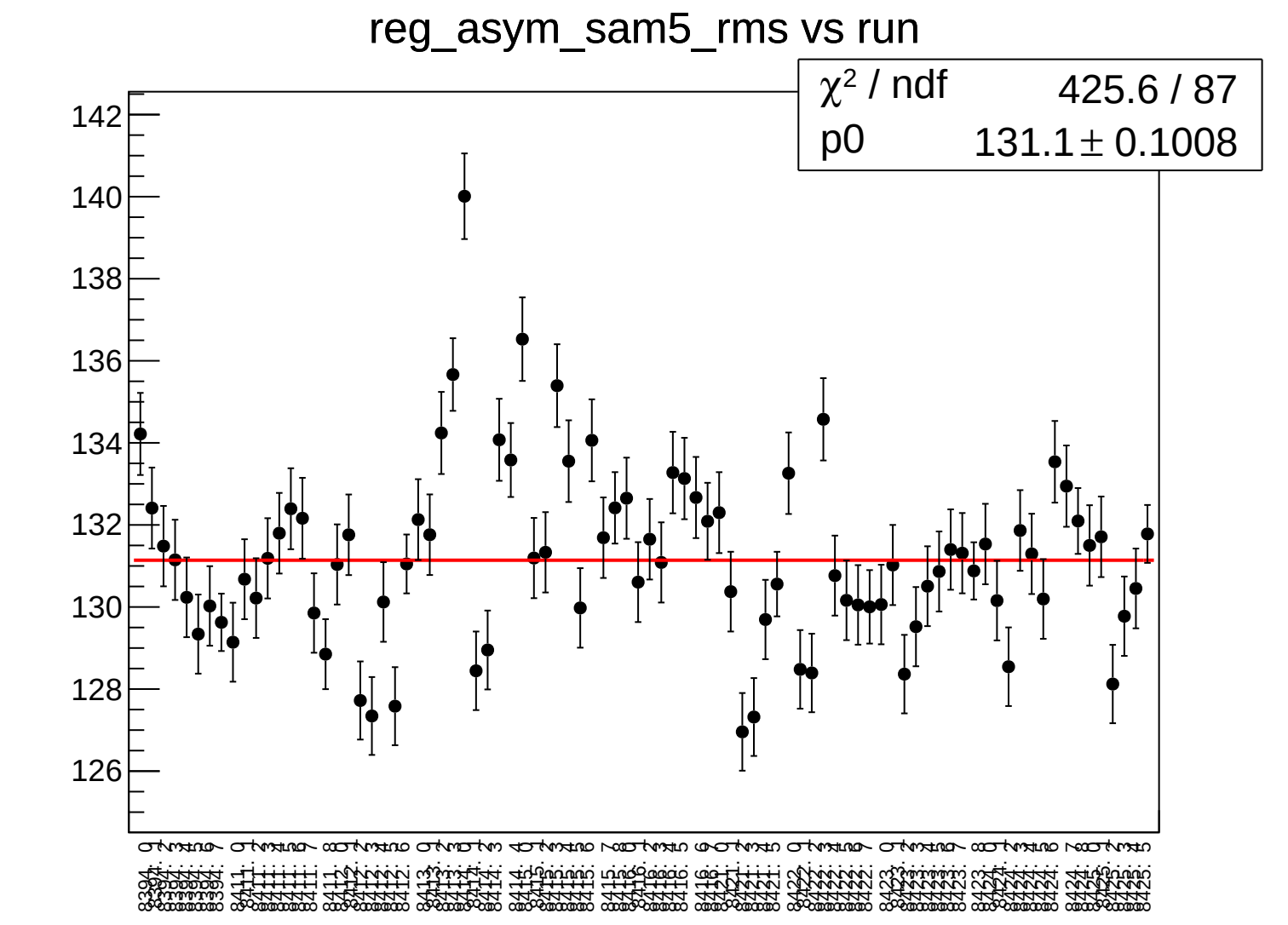

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.366e+04 / 87
p0 116.1 ± 0.0901
200
180
160
140
120
100

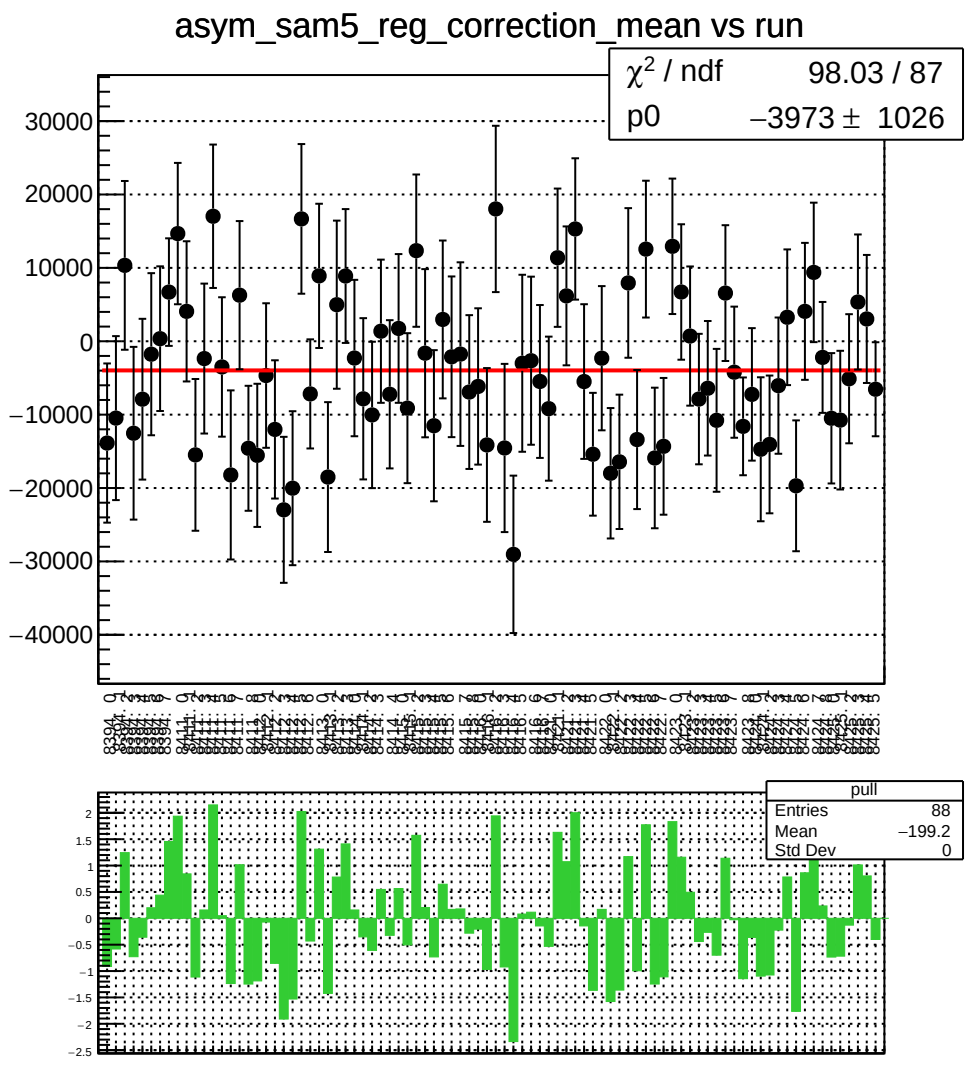

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 109.5 / 87
p0 7.511e−15 ± 2.702e−13
pull
Entries 88
Mean −74.14
Std Dev 0
pull1D
Entries 88
Mean 0.04108
Std Dev 1.115

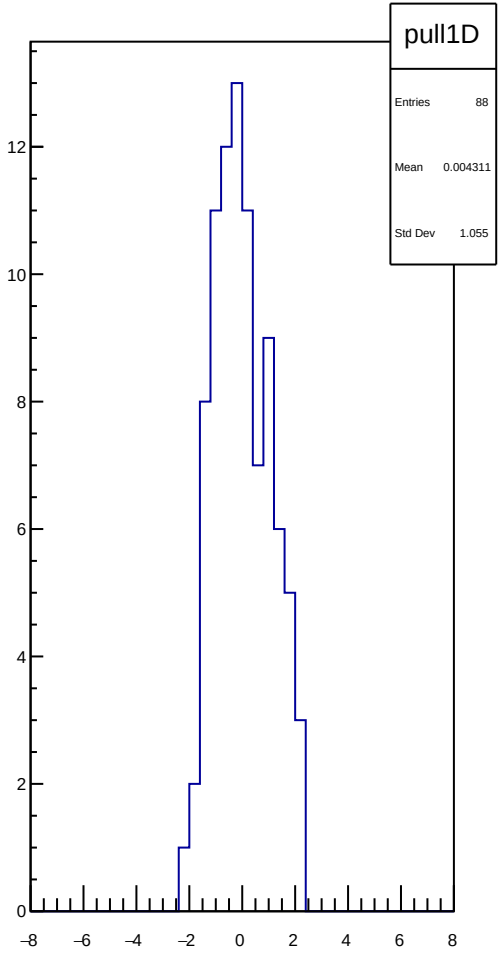

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.061e+05 / 87
p0 1.992e−10 ± 1.911e−13
1.2
1
0.8
0.6
0.4
0.2

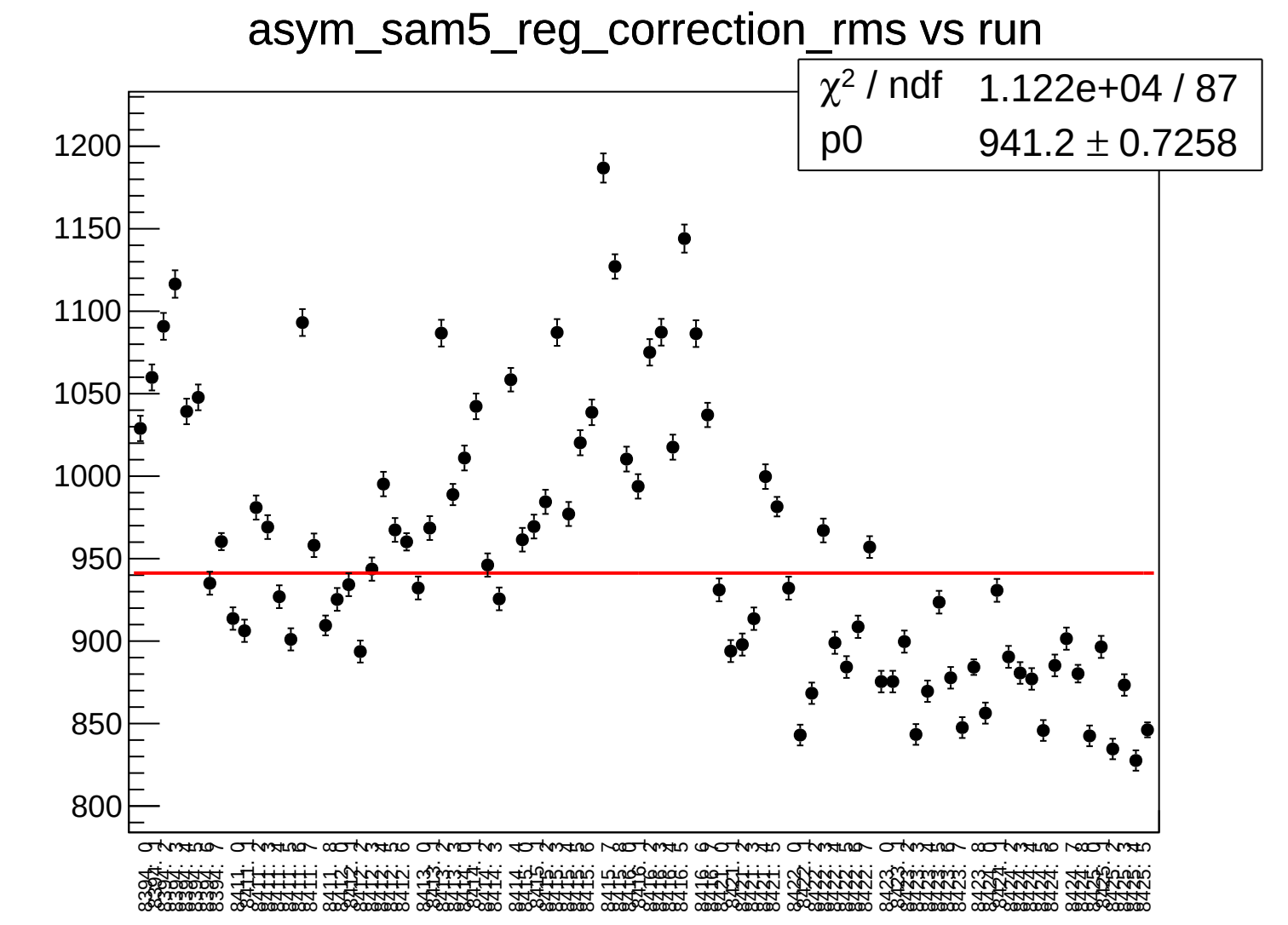

reg_asym_sam5_mean vs run
χ^2 / ndf 68.23 / 87
p0 36.24 ± 142.6
pull
Entries 88
Mean 9.047
Std Dev 59.96

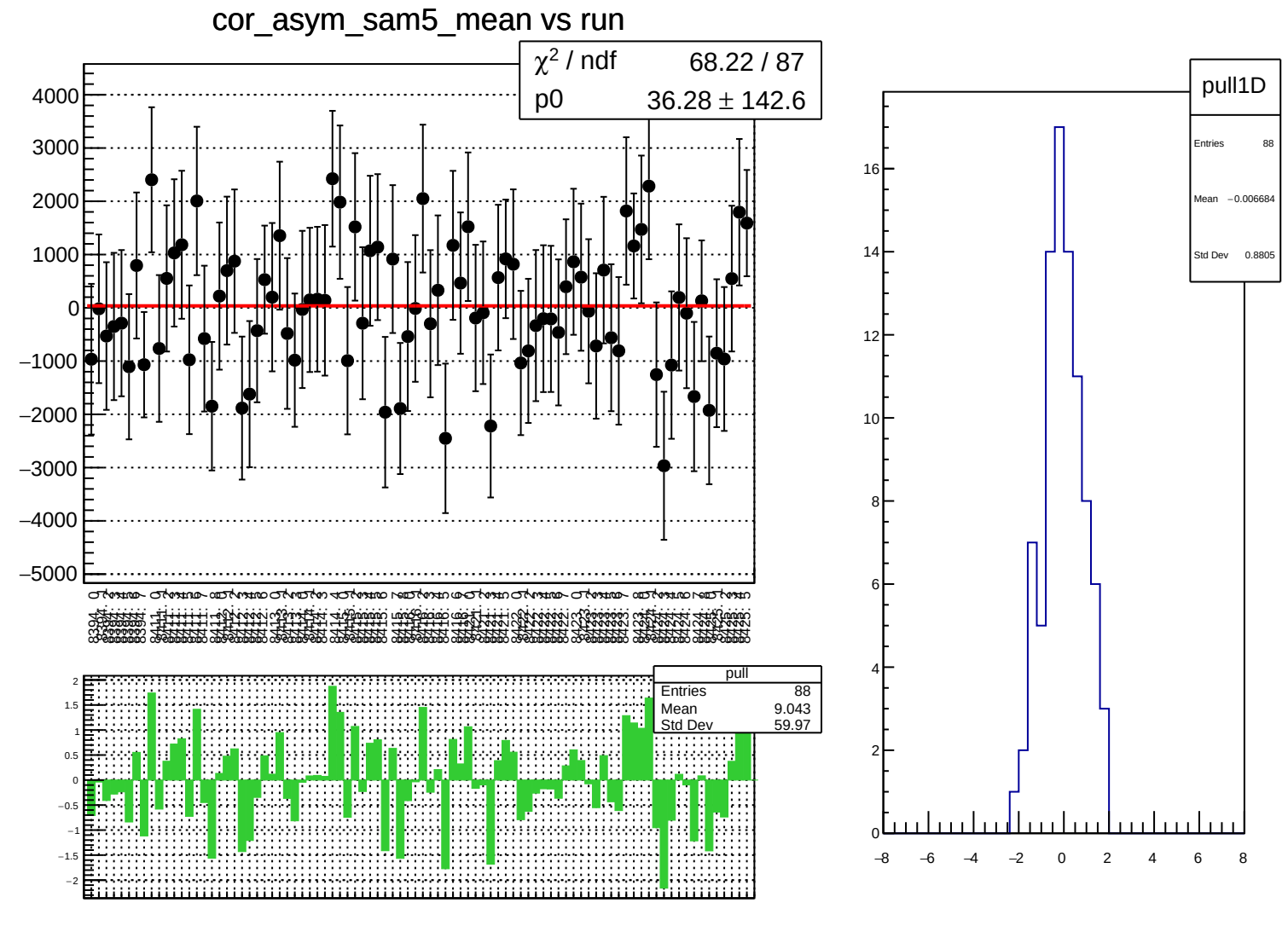

pull1D
Entries 88
Mean −0.006684
Std Dev 0.8805

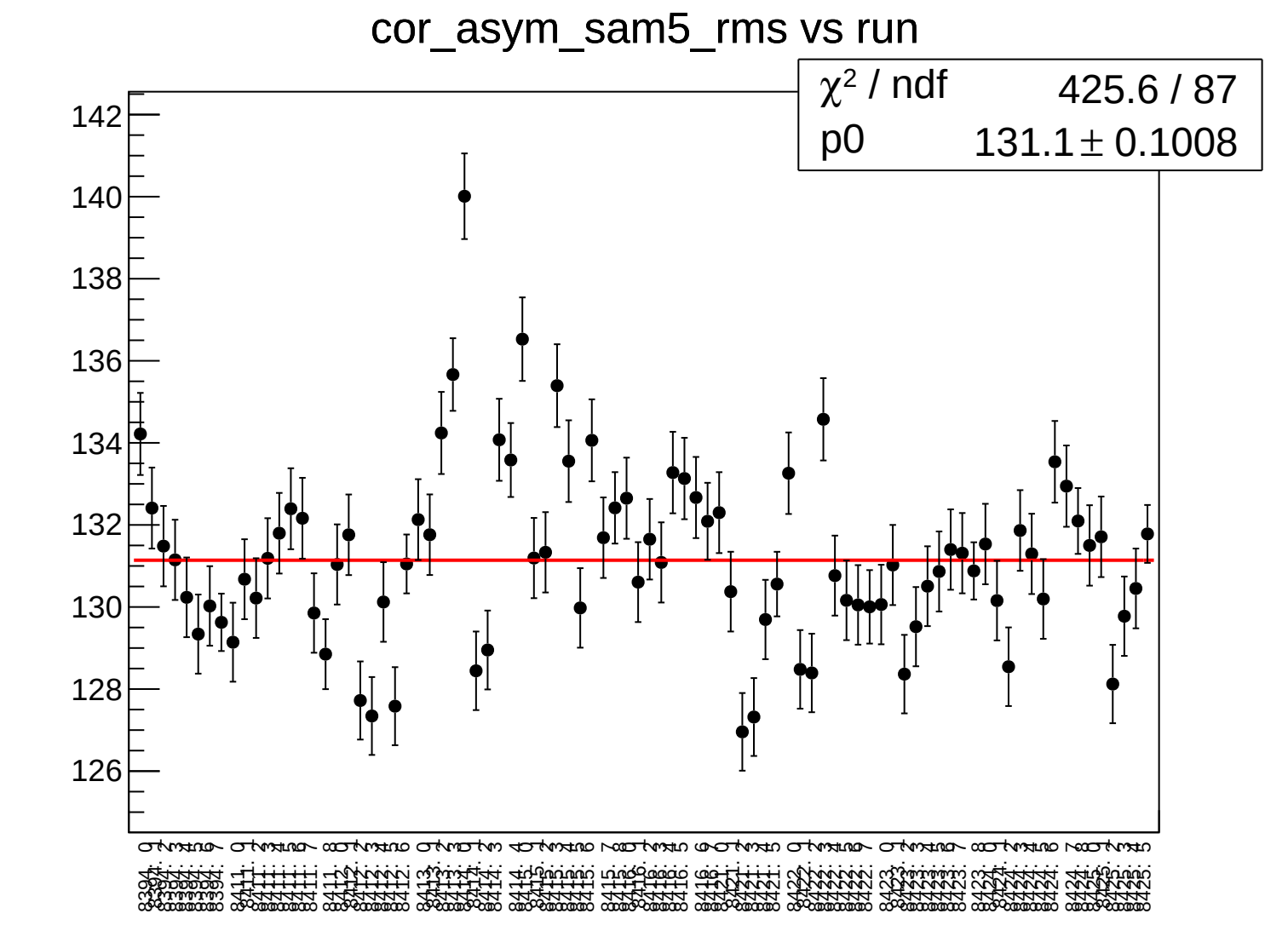

reg_asym_sam5_rms vs run
χ² / ndf 425.6 / 87
p0 131.1 ± 0.1008
142
140
138
136
134
132
130
128
126

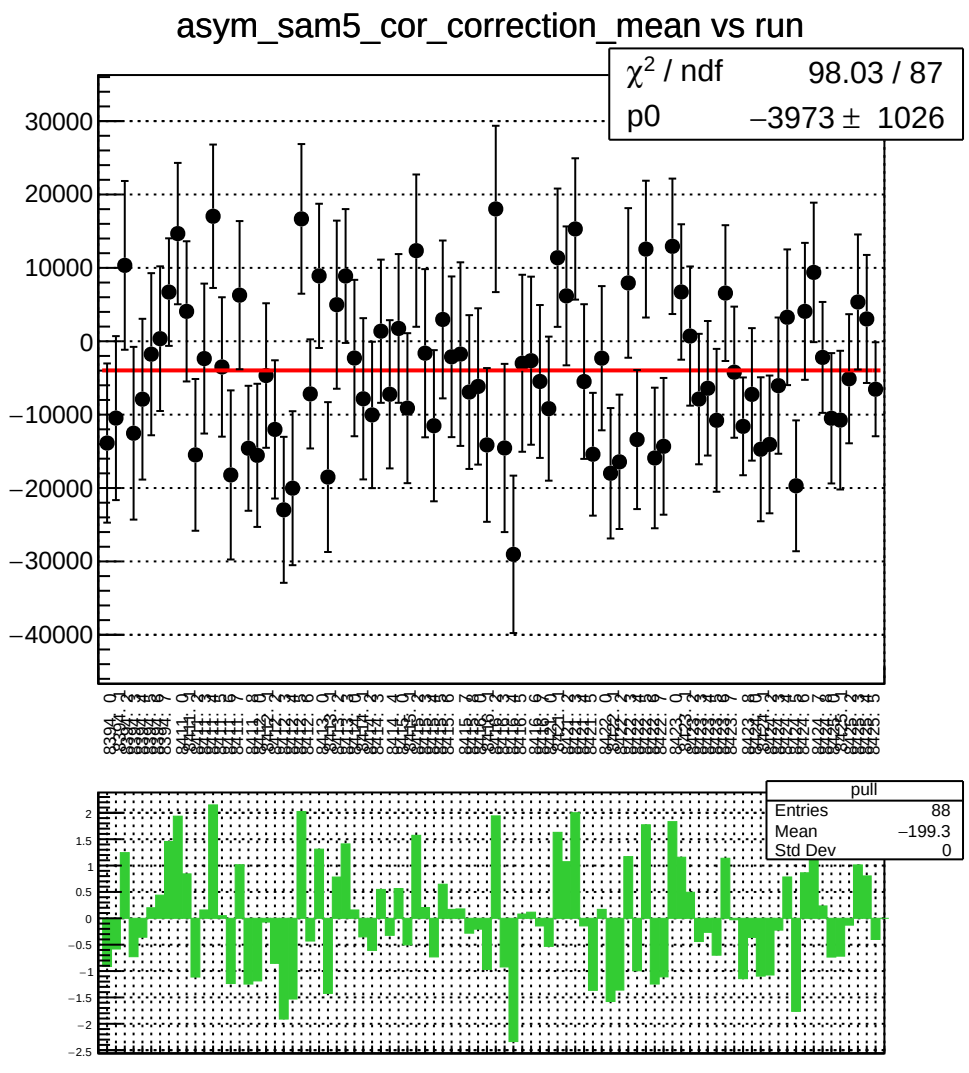

asym_sam5_reg_correction_mean vs run
χ² / ndf 98.03 / 87
p0 −3973 ± 1026
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −199.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

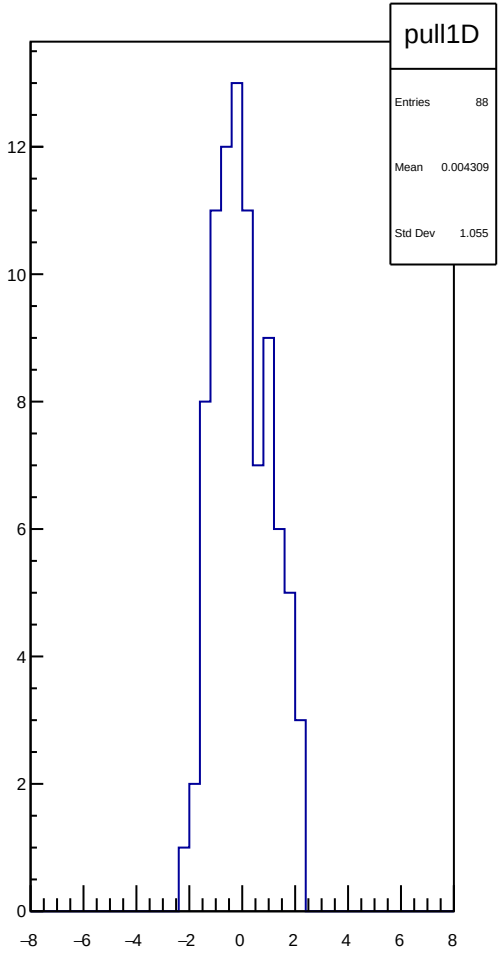

pull1D
Entries 88
Mean 0.004311
Std Dev 1.055
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

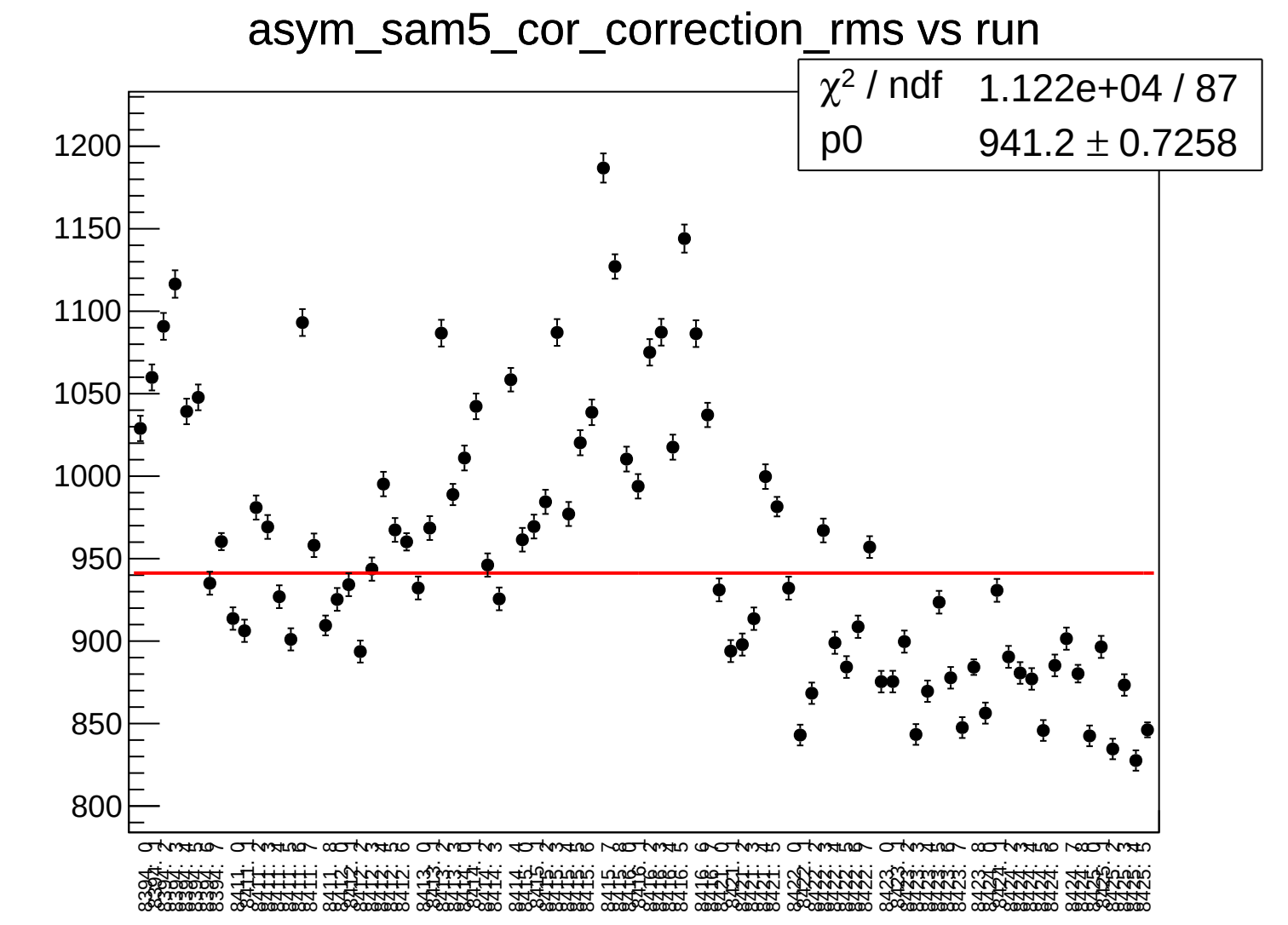

asym_sam5_reg_correction_rms vs run
χ² / ndf 1.122e+04 / 87
p0 941.2 ± 0.7258
1200
1150
1100
1050
1000
950
900
850
800

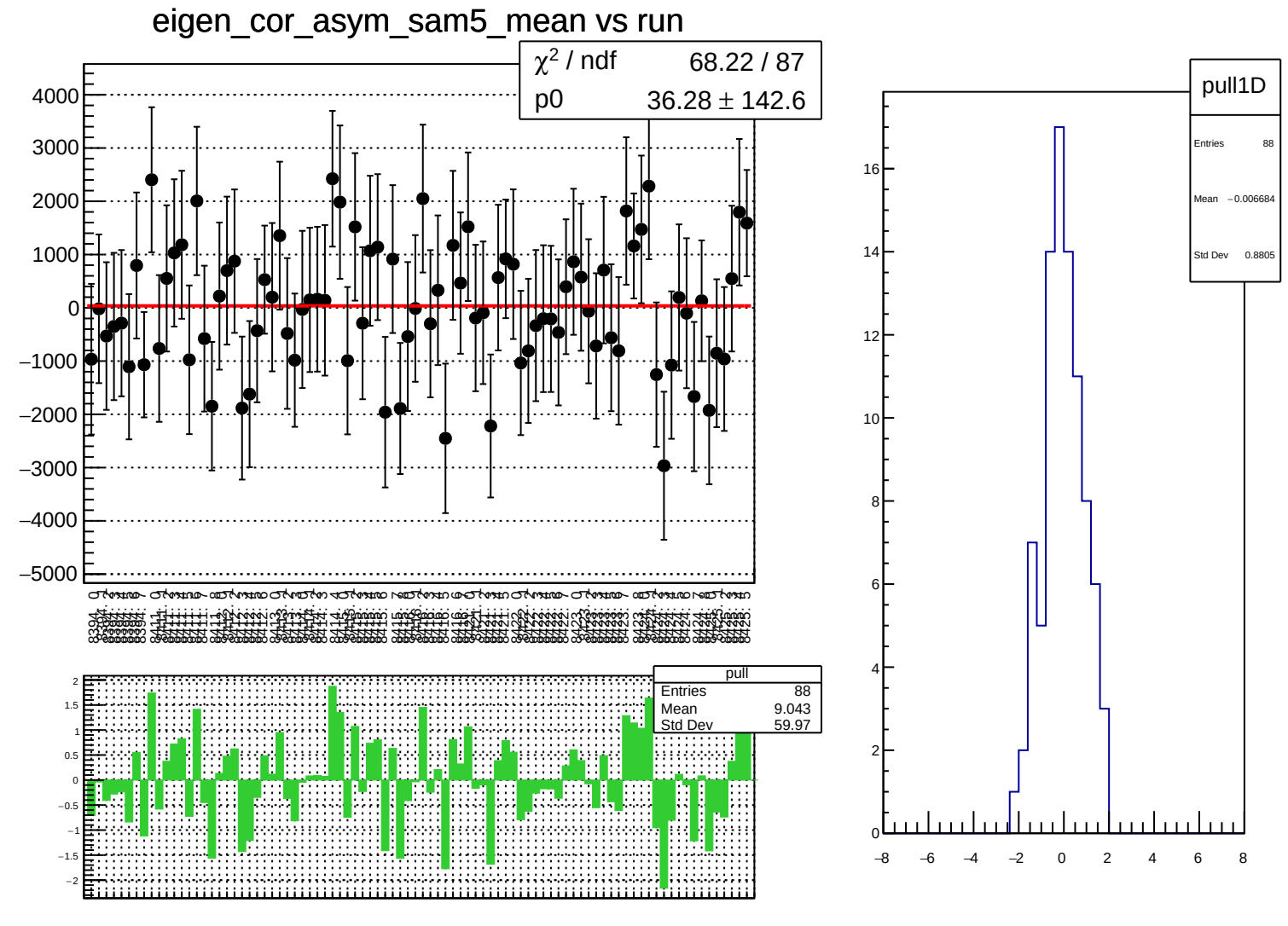

cor_asym_sam5_mean vs run
χ² / ndf 68.22 / 87
p0 36.28 ± 142.6
pull
Entries 88
Mean 9.043
Std Dev 59.97
pull1D
Entries 88
Mean −0.006684
Std Dev 0.8805

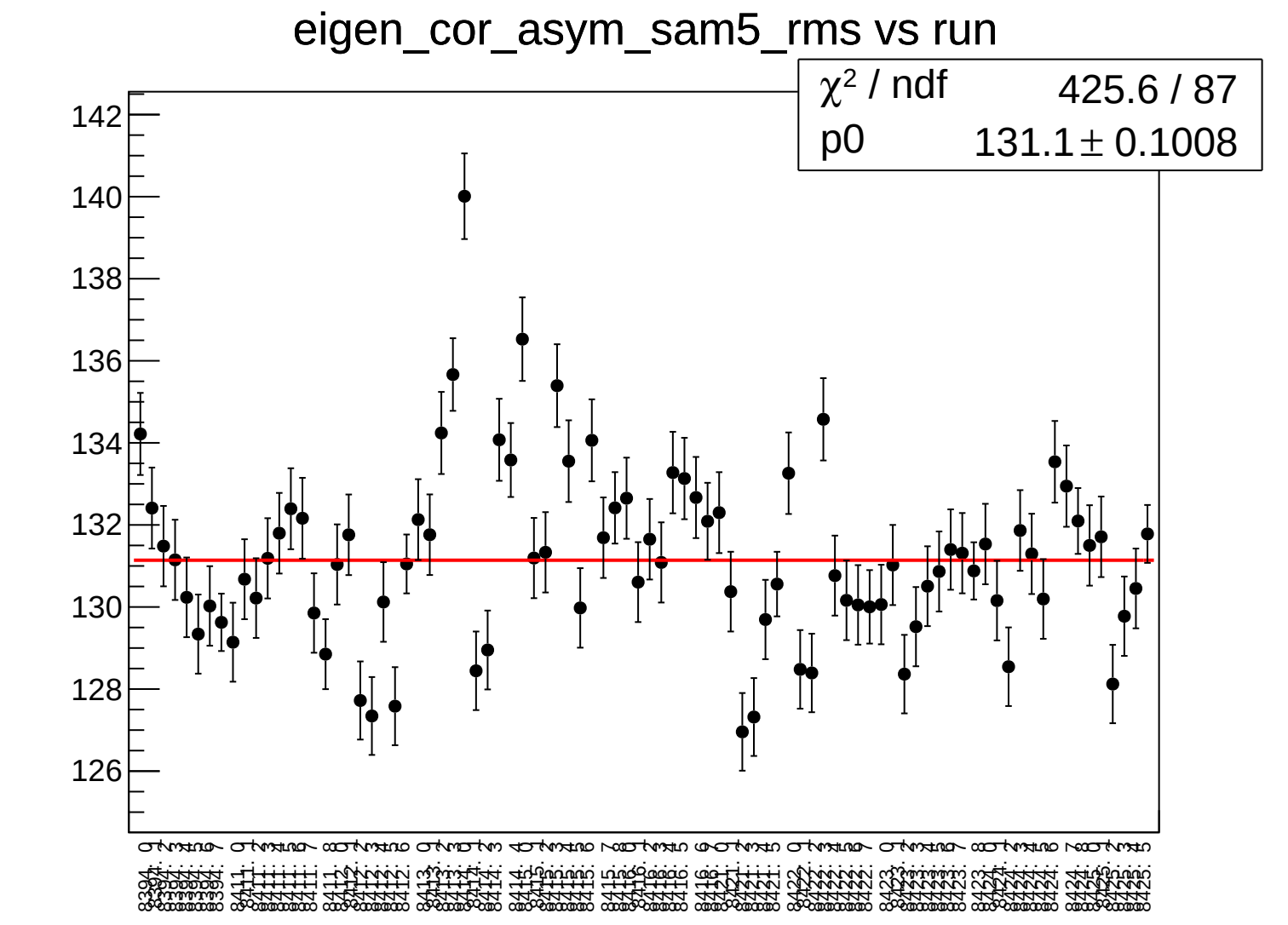

cor_asym_sam5_rms vs run
χ² / ndf 425.6 / 87
p0 131.1 ± 0.1008
142
140
138
136
134
132
130
128
126

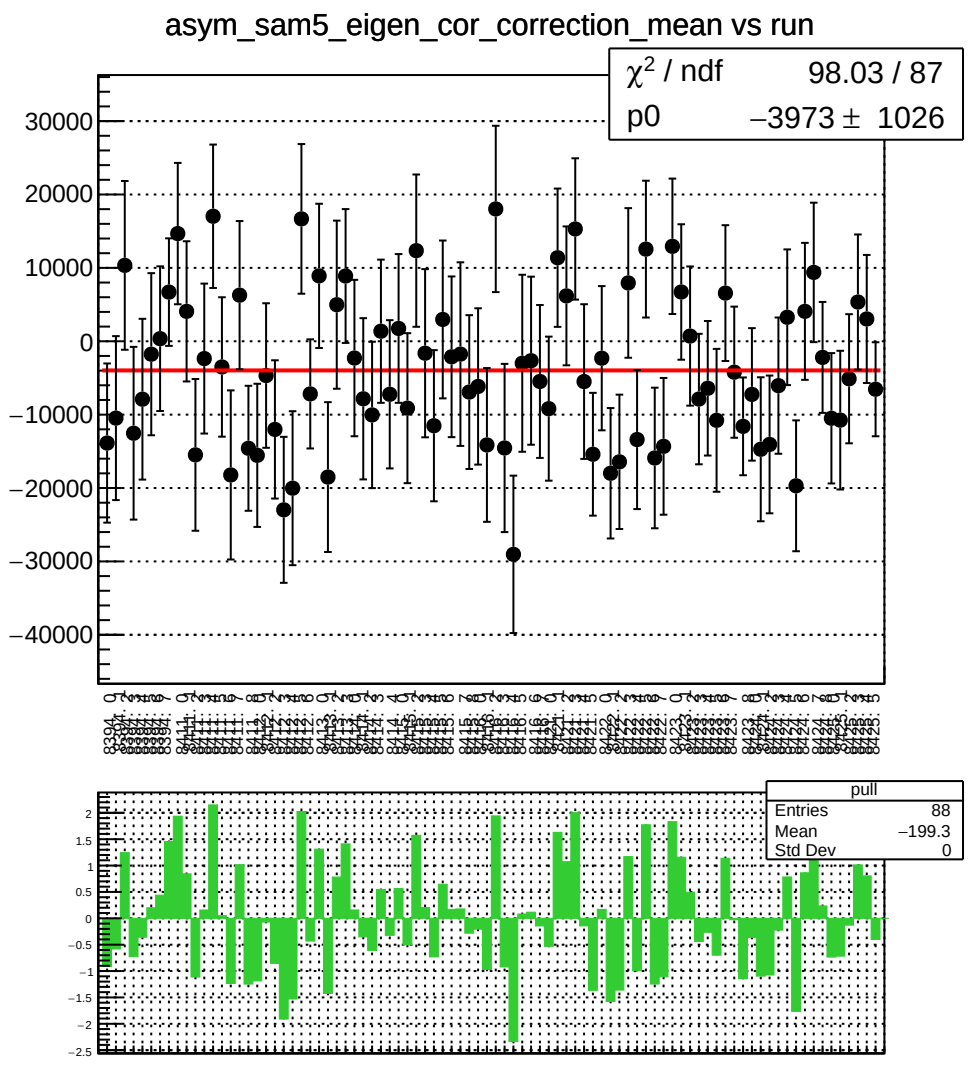

asym_sam5_cor_correction_mean vs run
χ² / ndf 98.03 / 87
p0 −3973 ± 1026
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −199.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

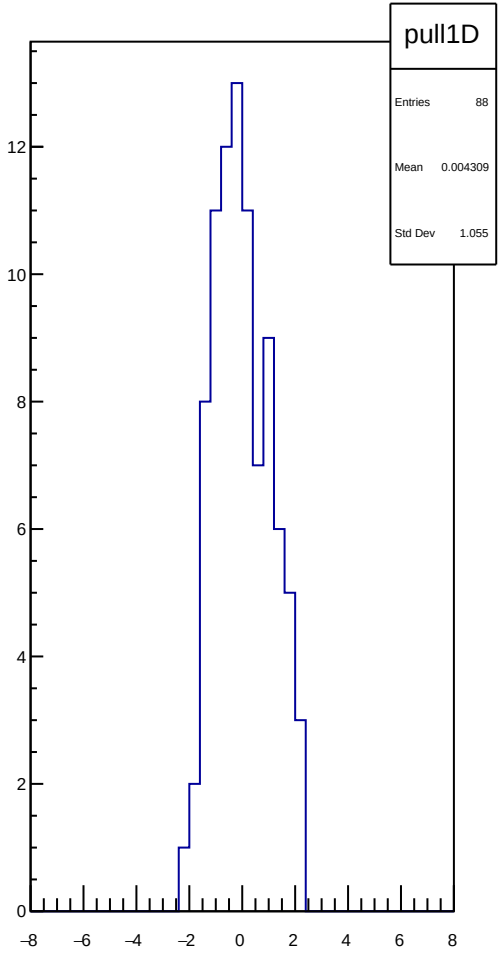

pull1D
Entries 88
Mean 0.004309
Std Dev 1.055
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

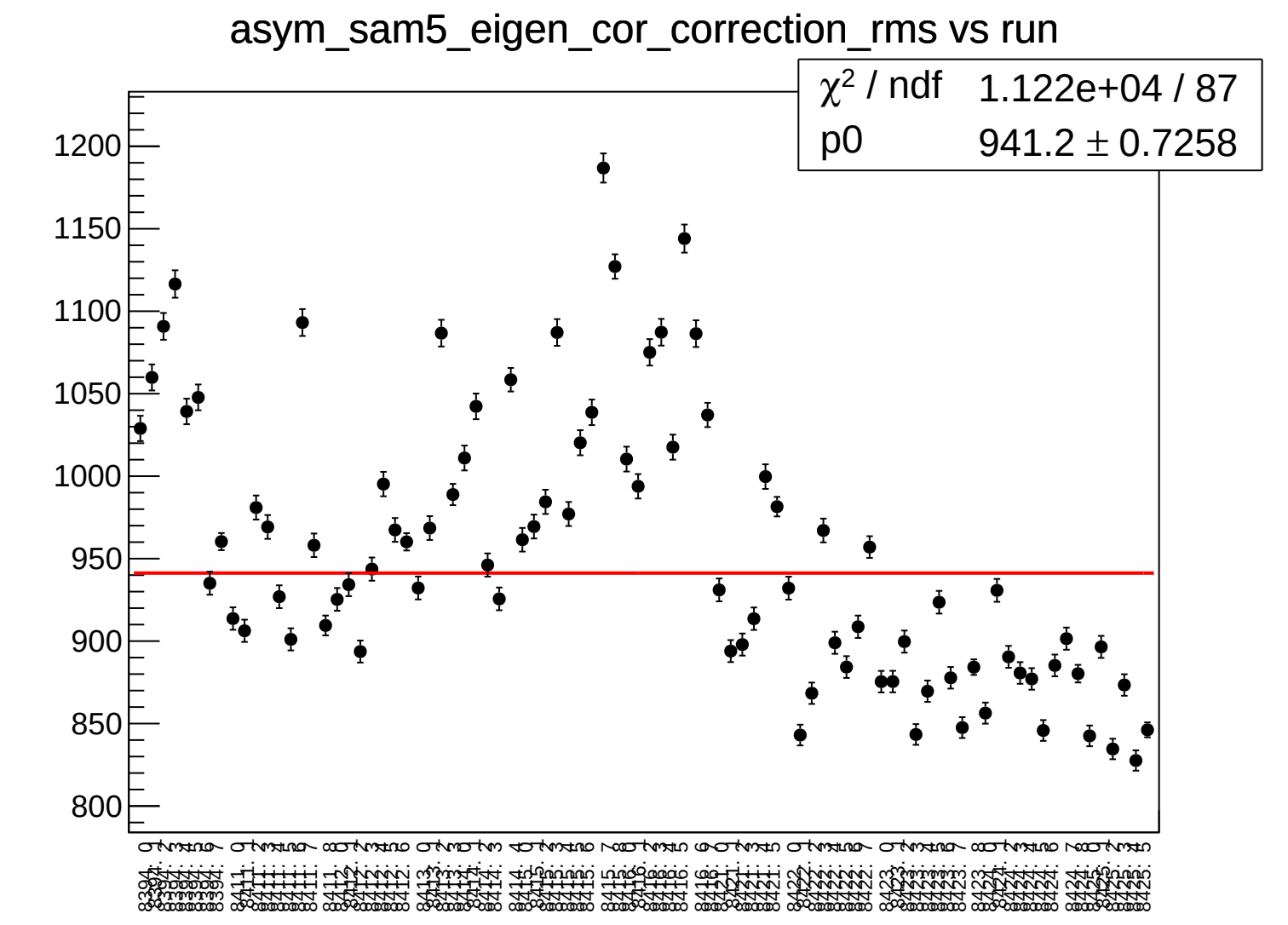

asym_sam5_cor_correction_rms vs run
χ² / ndf 1.122e+04 / 87
p0 941.2 ± 0.7258
1200
1150
1100
1050
1000
950
900
850
800

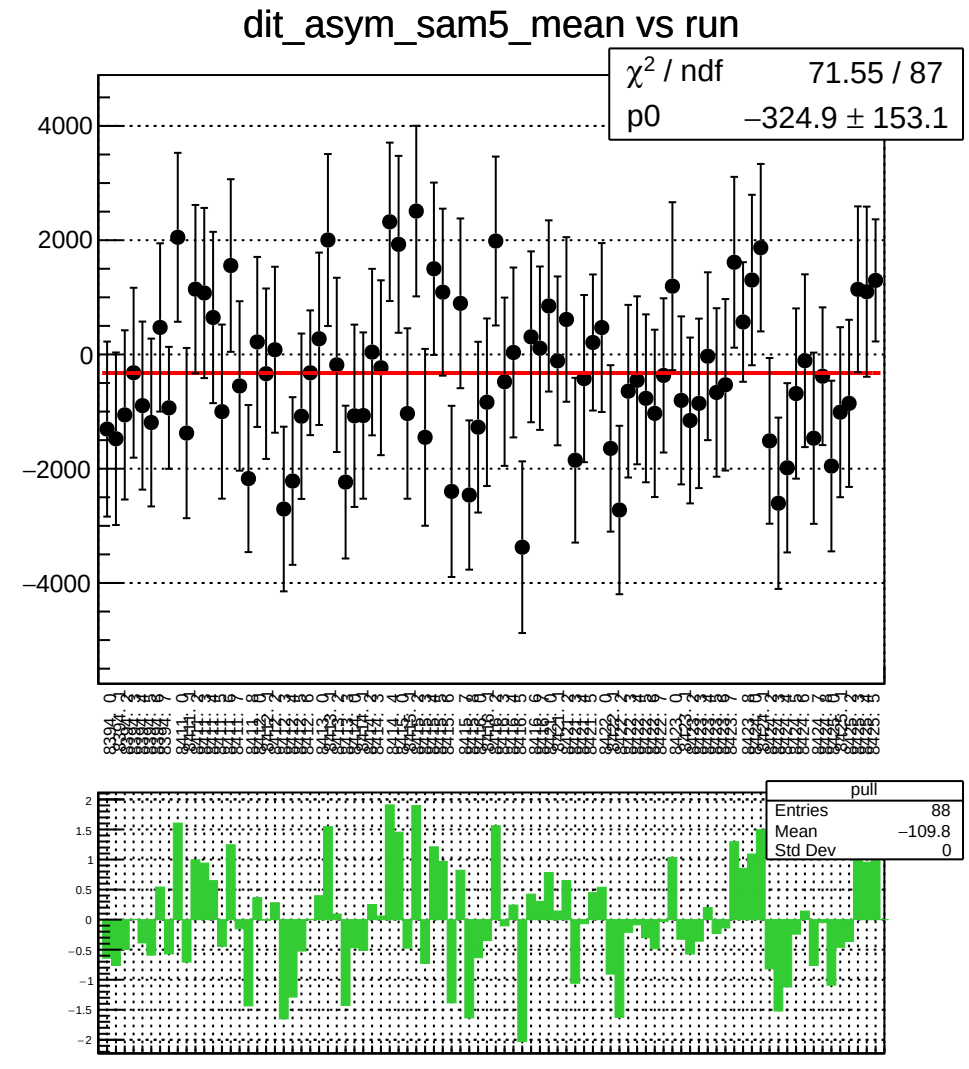

eigen_cor_asym_sam5_mean vs run
χ² / ndf 68.22 / 87
p0 36.28 ± 142.6
pull
Entries 88
Mean 9.043
Std Dev 59.97
pull1D
Entries 88
Mean −0.006684
Std Dev 0.8805

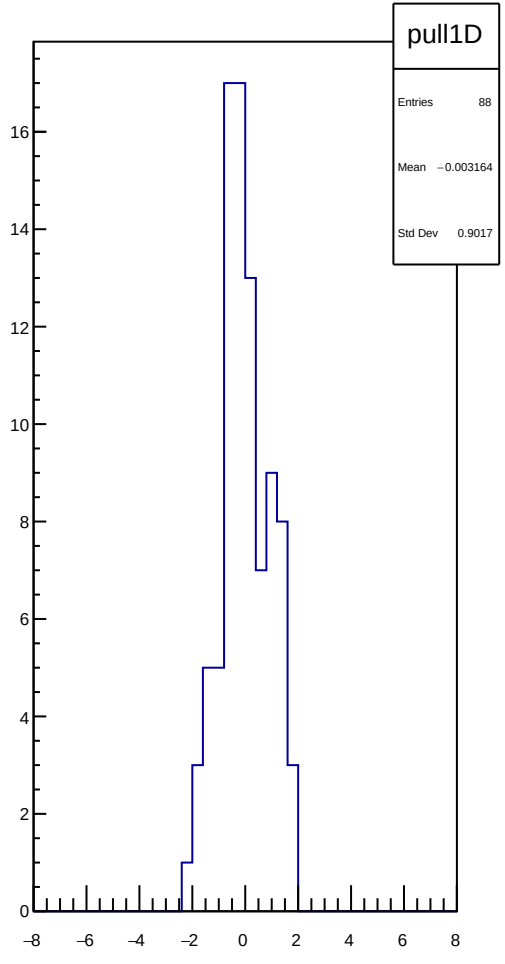

eigen_cor_asym_sam5_rms vs run
χ² / ndf 425.6 / 87
p0 131.1 ± 0.1008
142
140
138
136
134
132
130
128
126

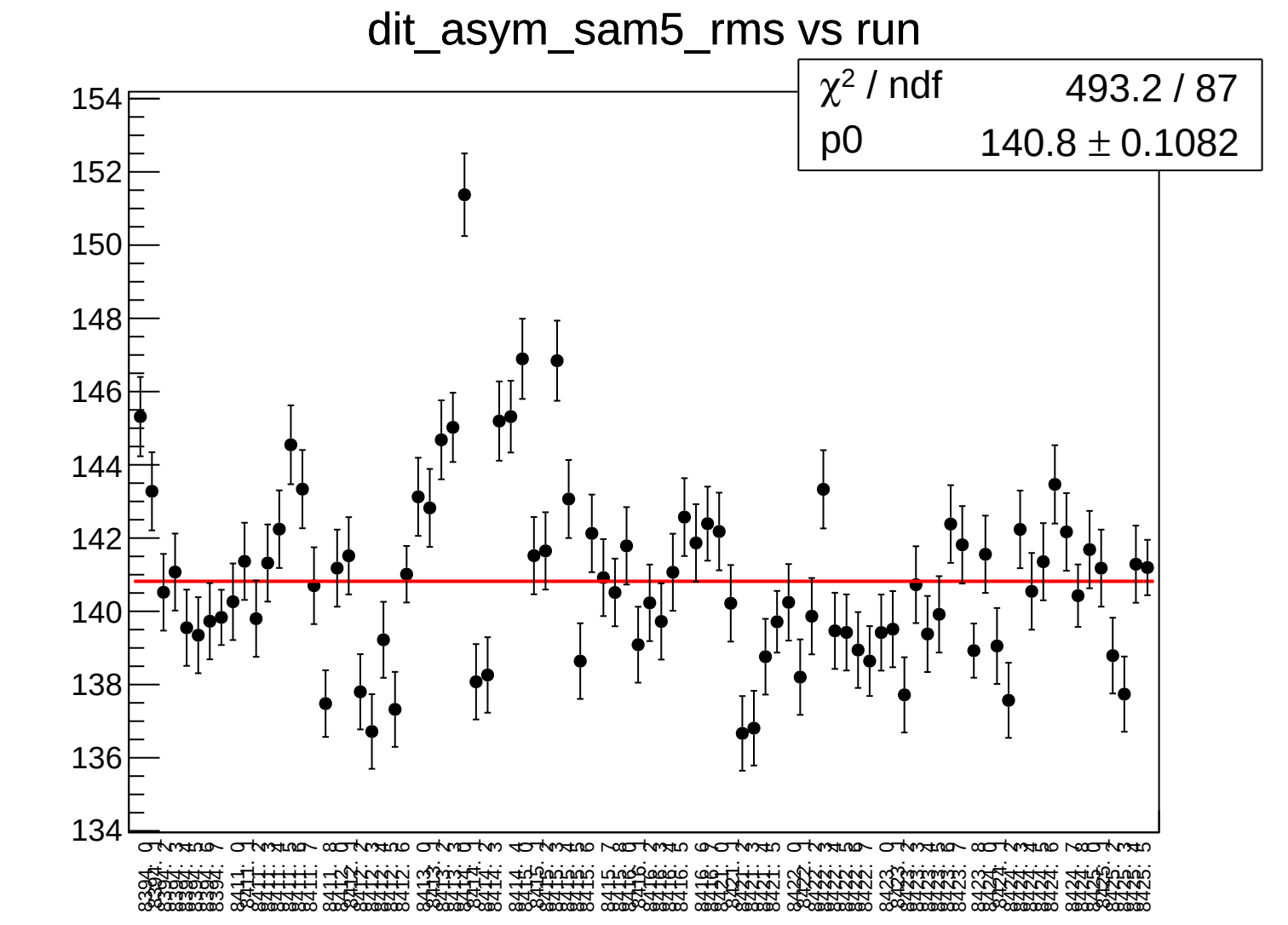

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 98.03 / 87
p0 −3973 ± 1026
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −199.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

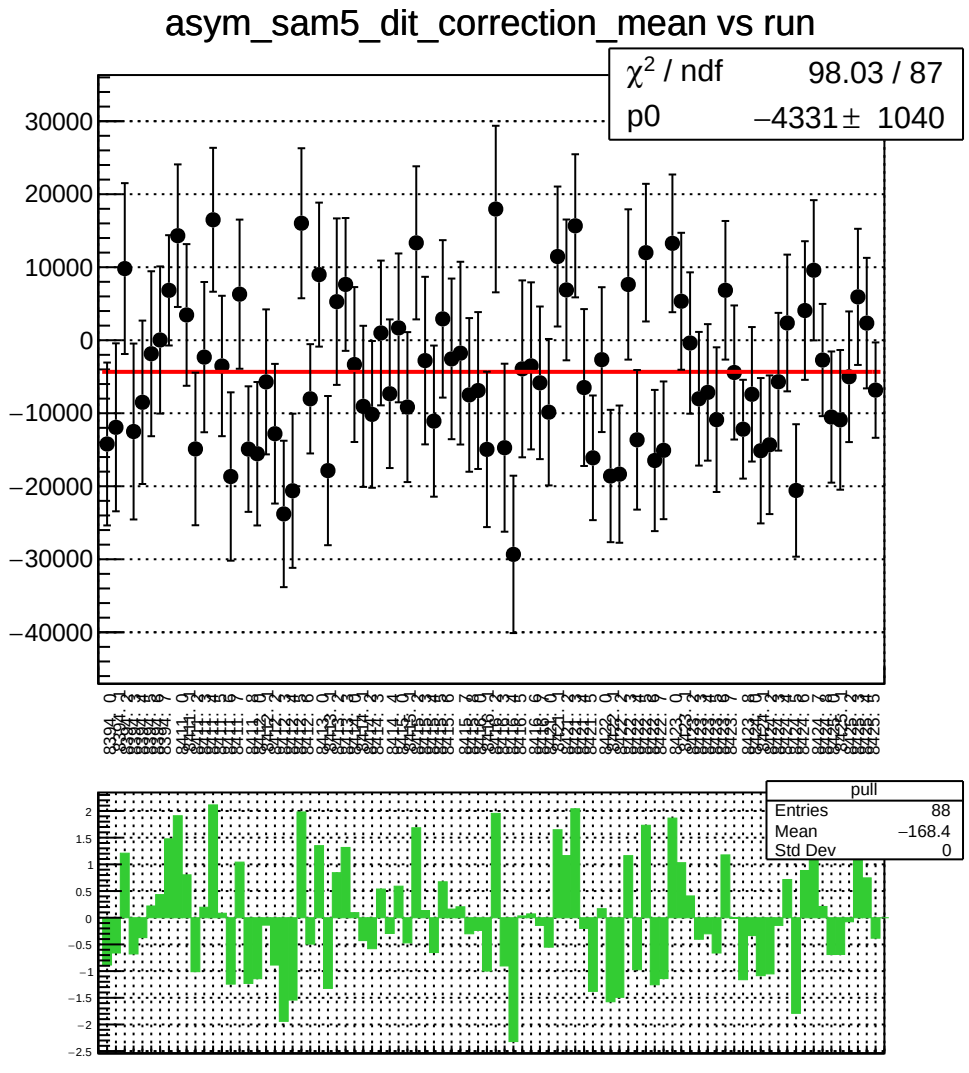

pull1D
Entries 88
Mean 0.004309
Std Dev 1.055
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

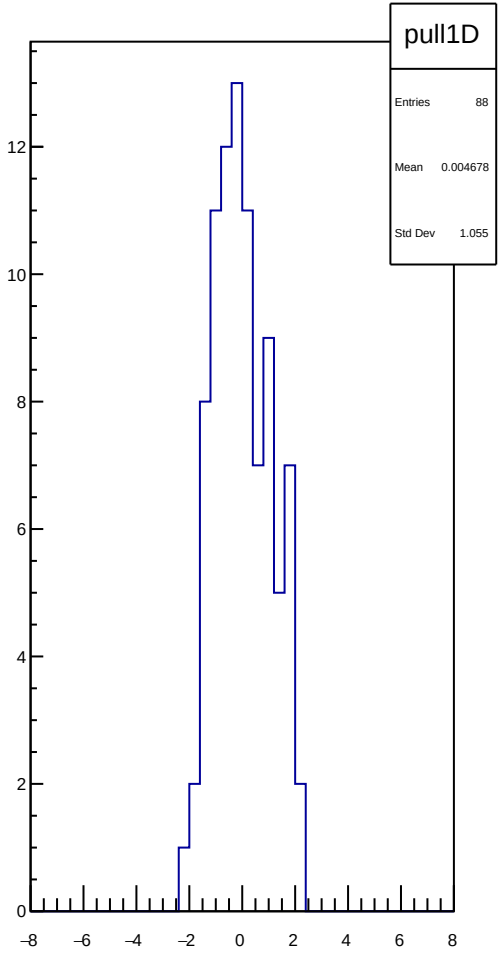

asym_sam5_eigen_cor_correction_rms vs run
χ^2 / ndf 1.122e+04 / 87
p0 941.2 ± 0.7258
1200
1150
1100
1050
1000
950
900
850
800

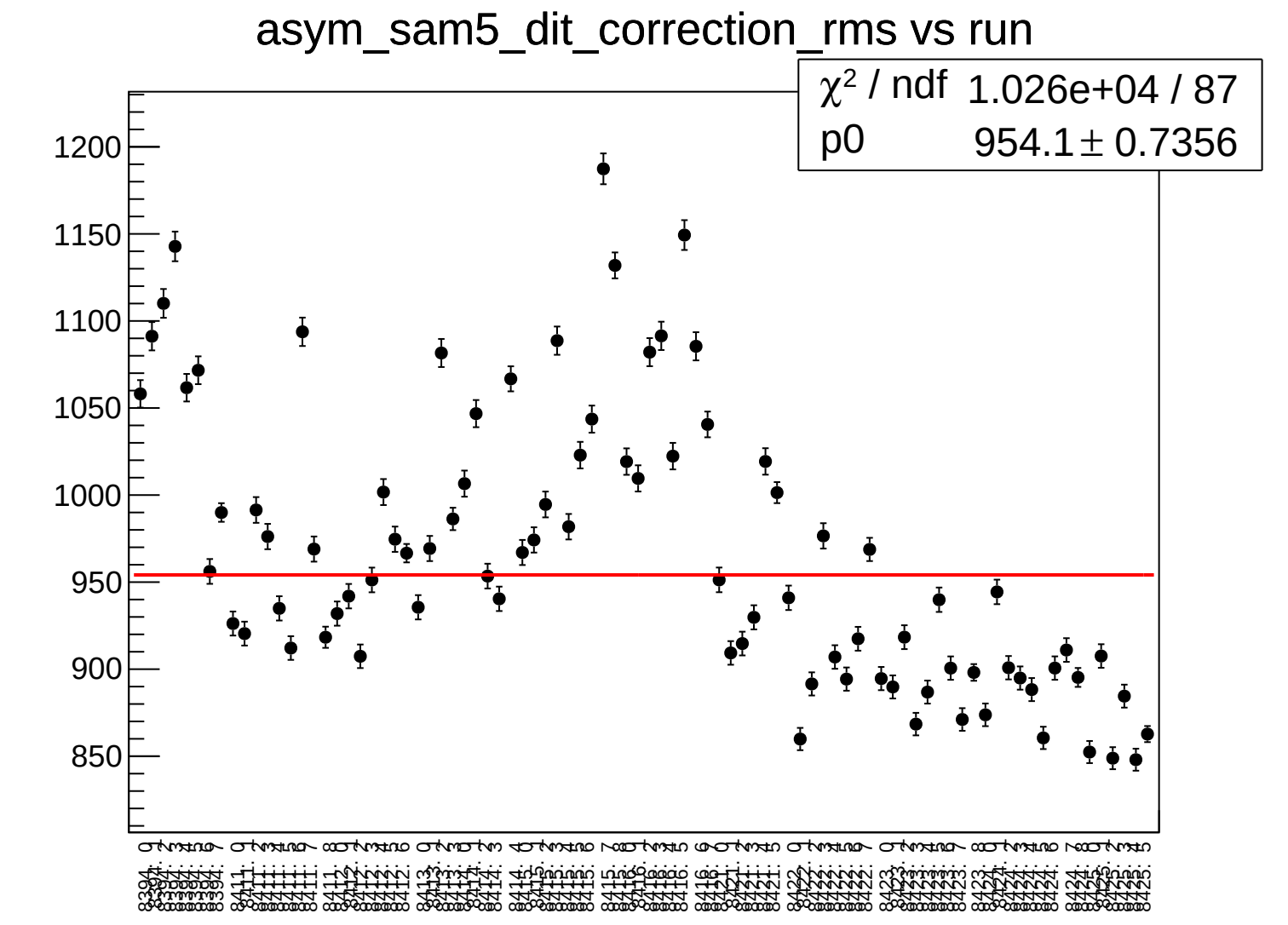

dit_asym_sam5_mean vs run
χ² / ndf 71.55 / 87
p0 −324.9 ± 153.1
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −109.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

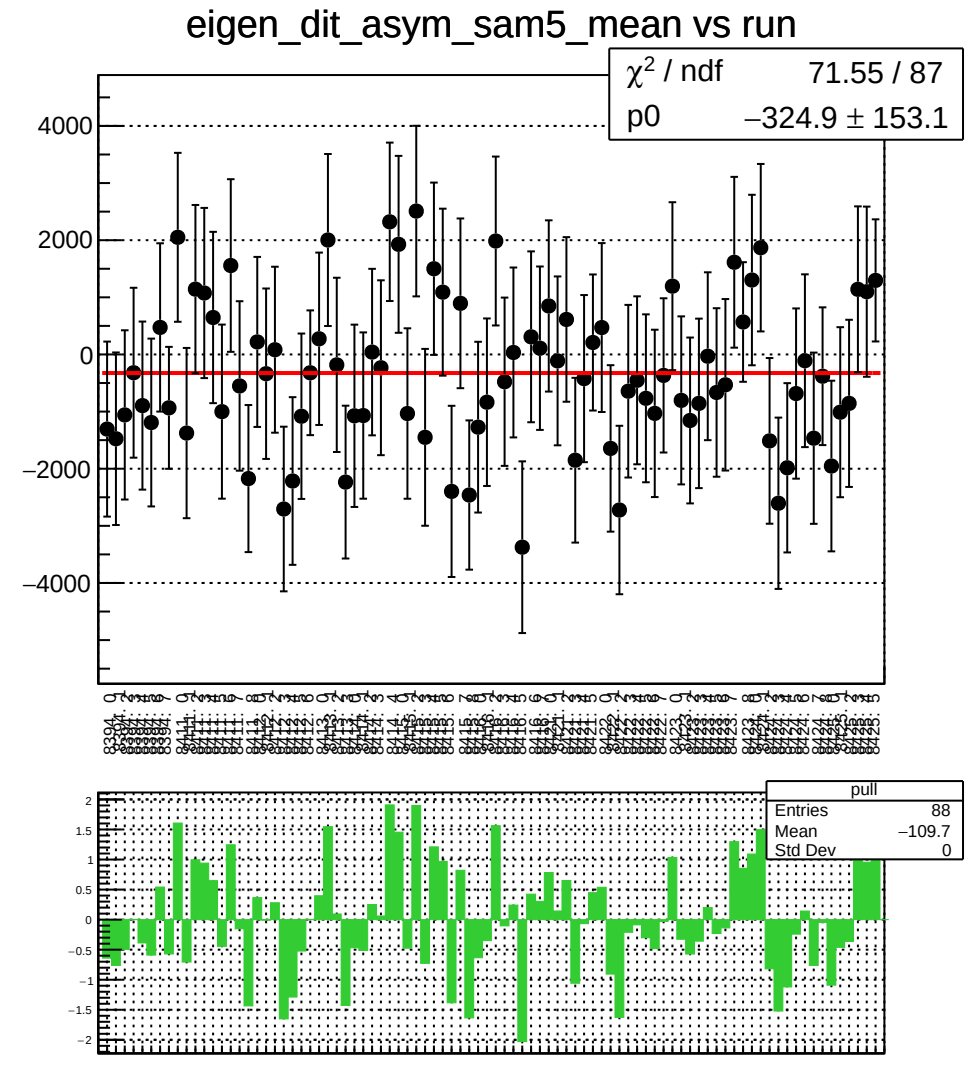

pull1D
Entries 88
Mean −0.003164
Std Dev 0.9017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

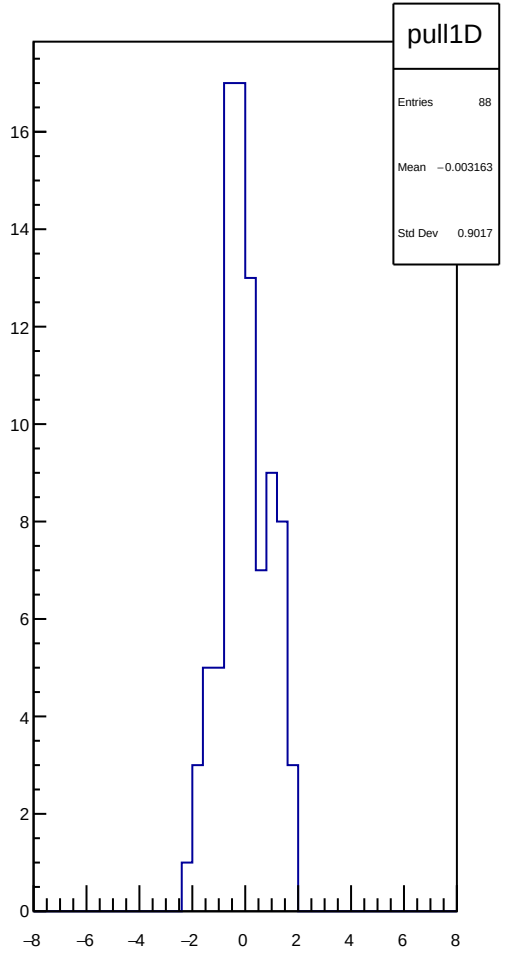

dit_asym_sam5_rms vs run
χ² / ndf 493.2 / 87
p0 140.8 ± 0.1082
154
152
150
148
146
144
142
140
138
136
134

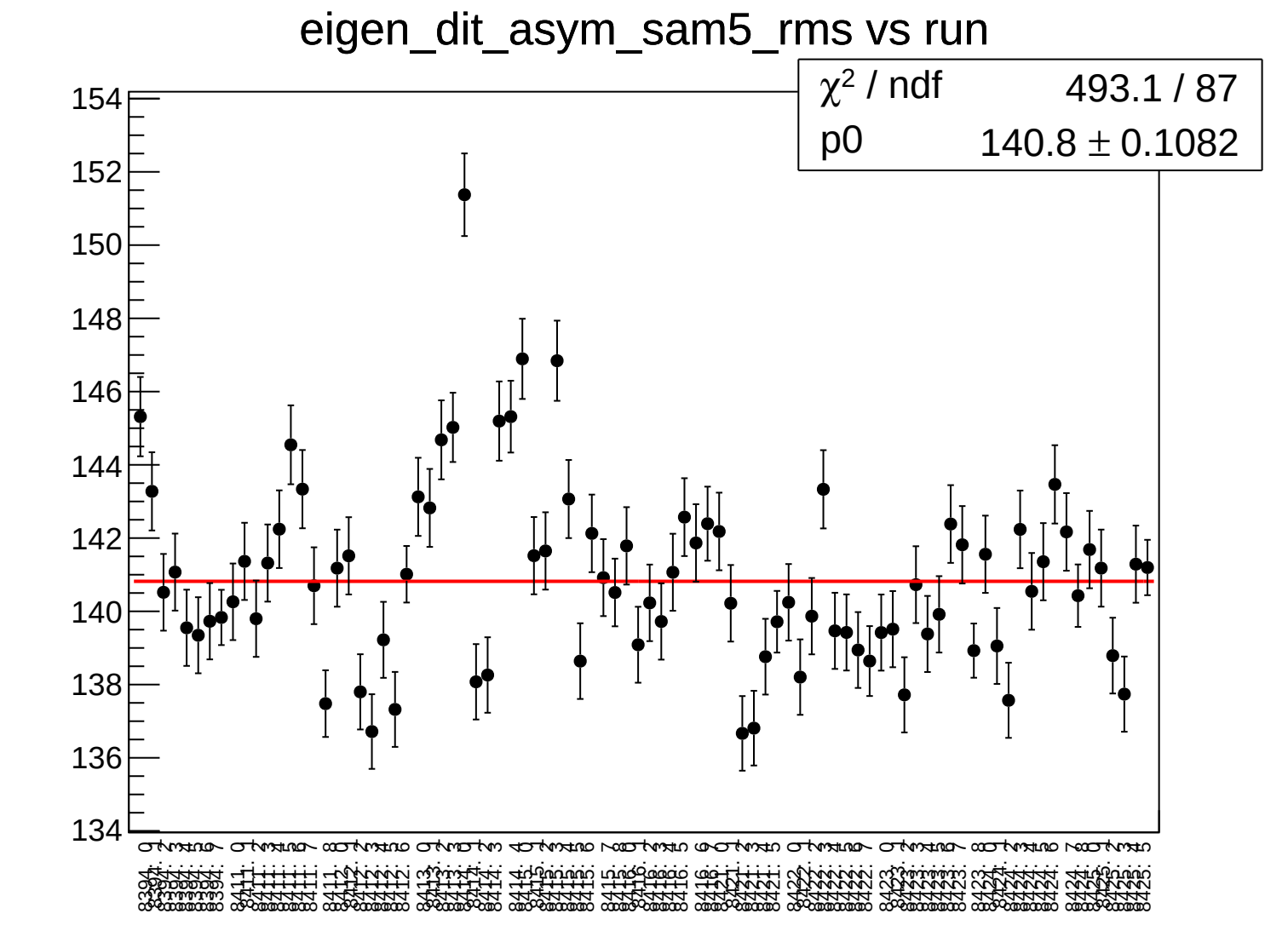

asym_sam5_dit_correction_mean vs run
χ² / ndf 98.03 / 87
p0 −4331 ± 1040
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −168.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

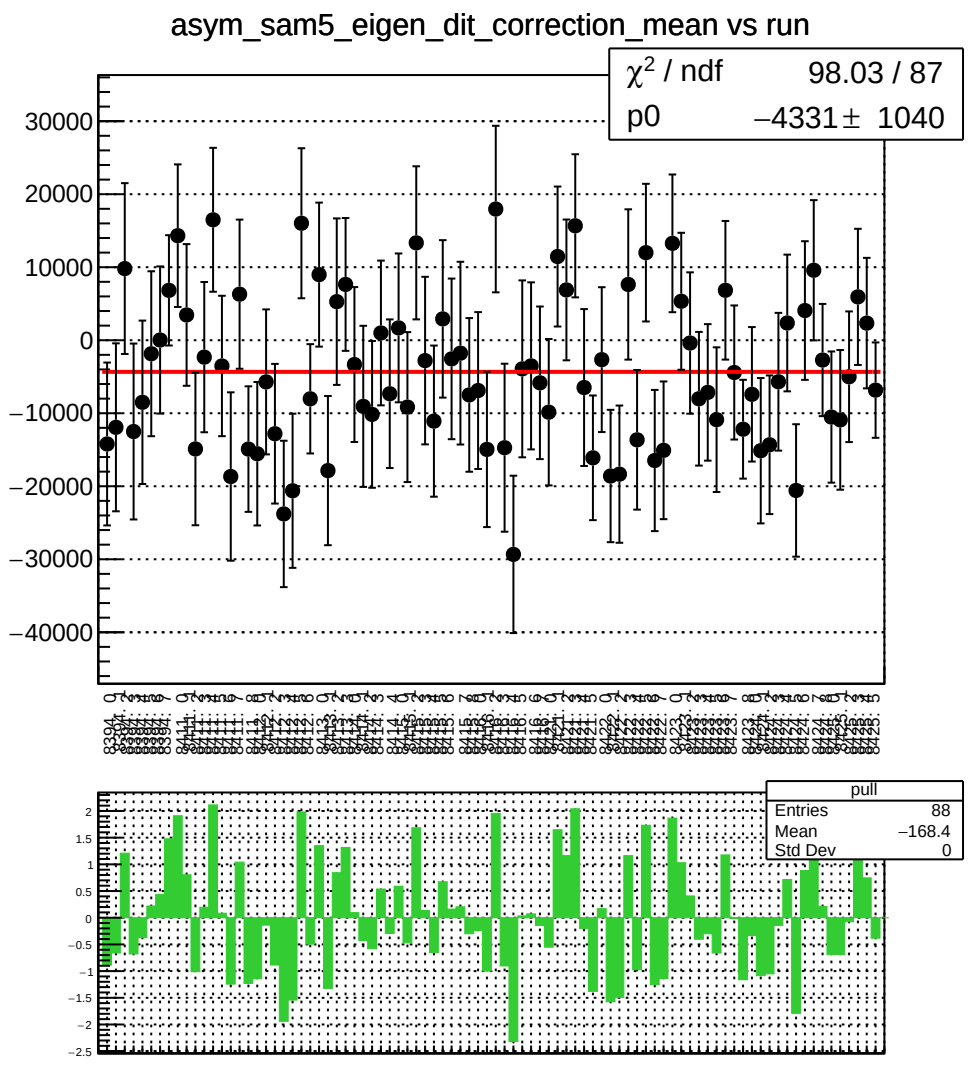

pull1D
Entries 88
Mean 0.004678
Std Dev 1.055
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

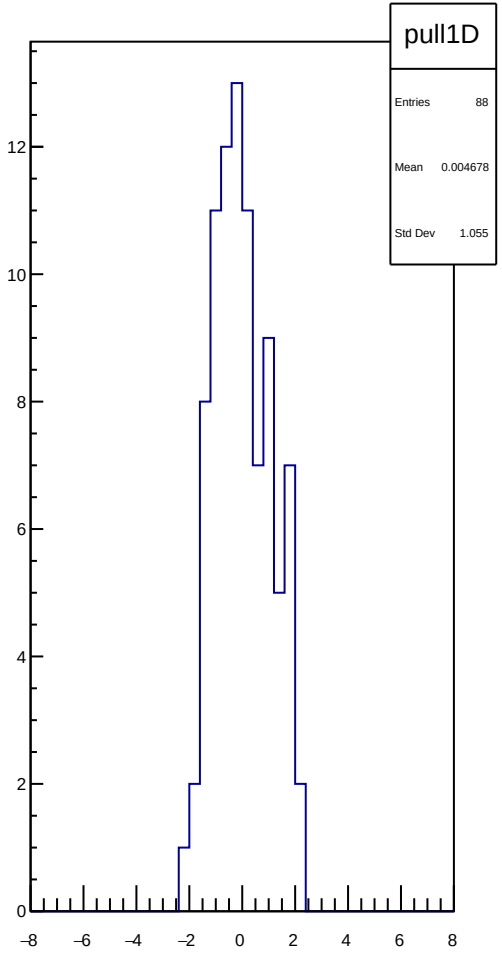

asym_sam5_dit_correction_rms vs run
χ² / ndf 1.026e+04 / 87
p0 954.1 ± 0.7356
1200
1150
1100
1050
1000
950
900
850

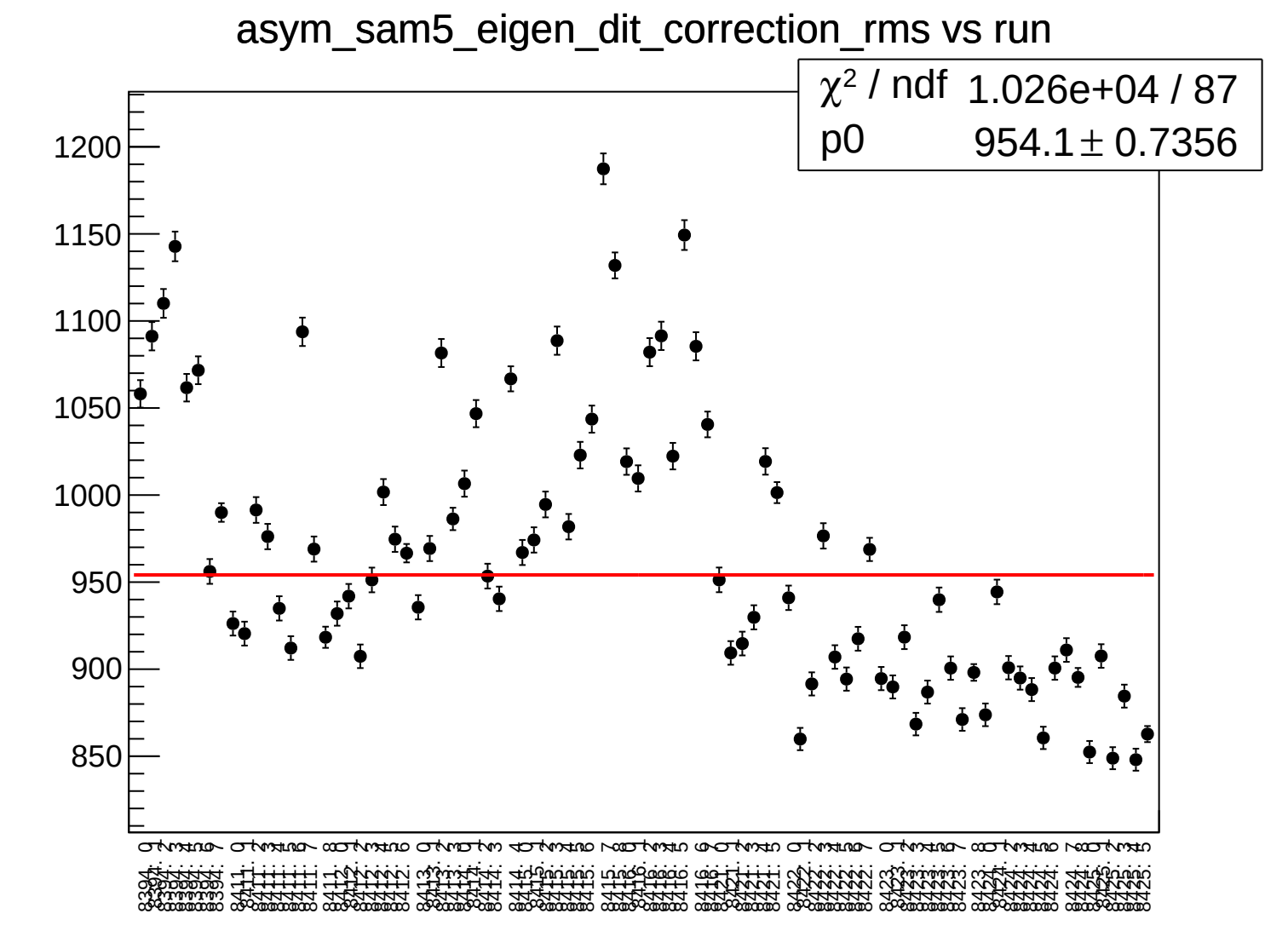

eigen_dit_asym_sam5_mean vs run
χ² / ndf 71.55 / 87
p0 −324.9 ± 153.1
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −109.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

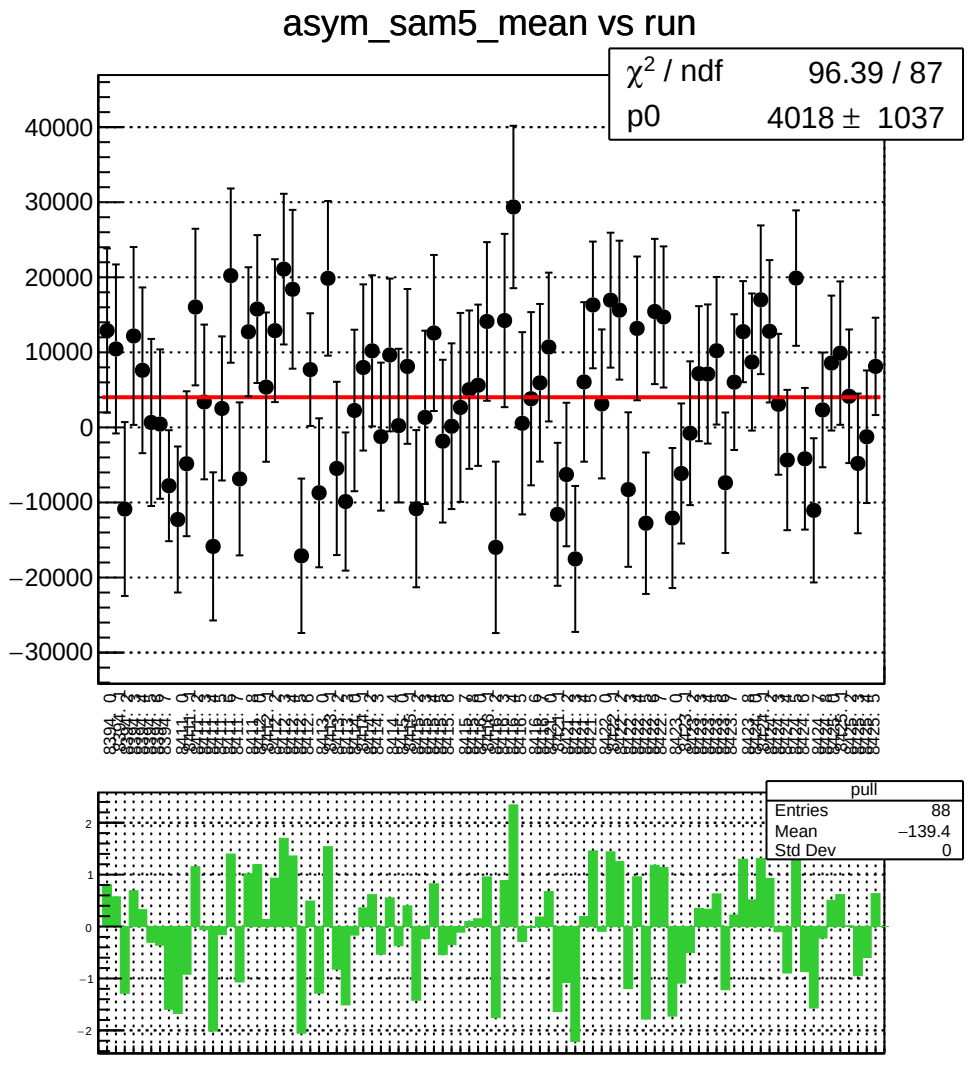

pull1D
Entries 88
Mean −0.003163
Std Dev 0.9017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

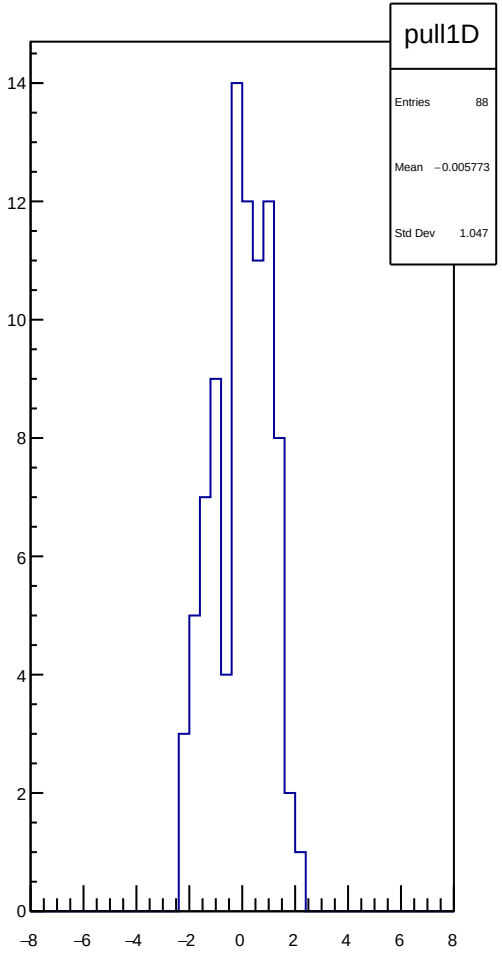

eigen_dit_asym_sam5_rms vs run
χ^2 / ndf 493.1 / 87
p0 140.8 ± 0.1082
154
152
150
148
146
144
142
140
138
136
134

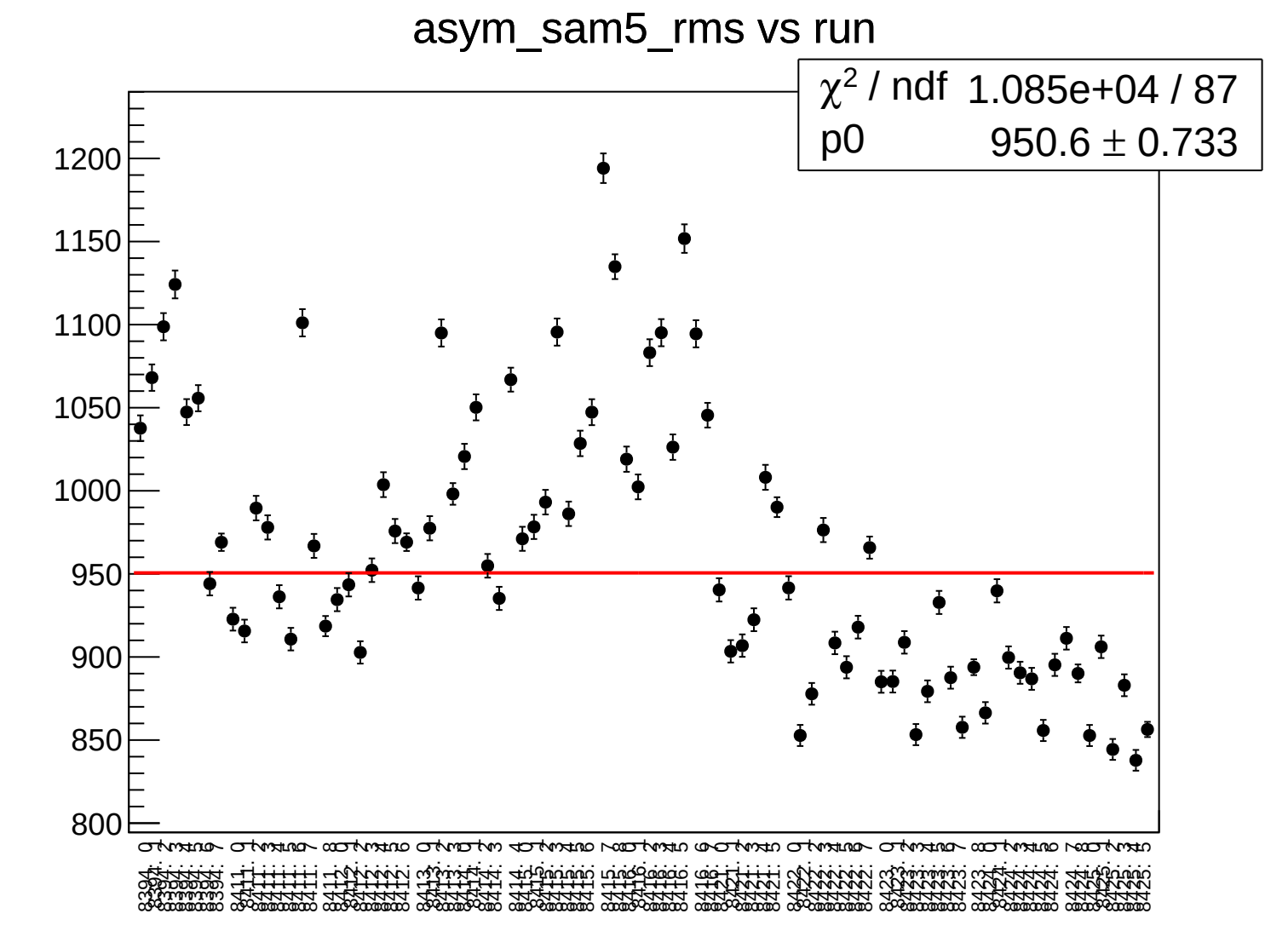

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 98.03 / 87
p0 −4331 ± 1040
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −168.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

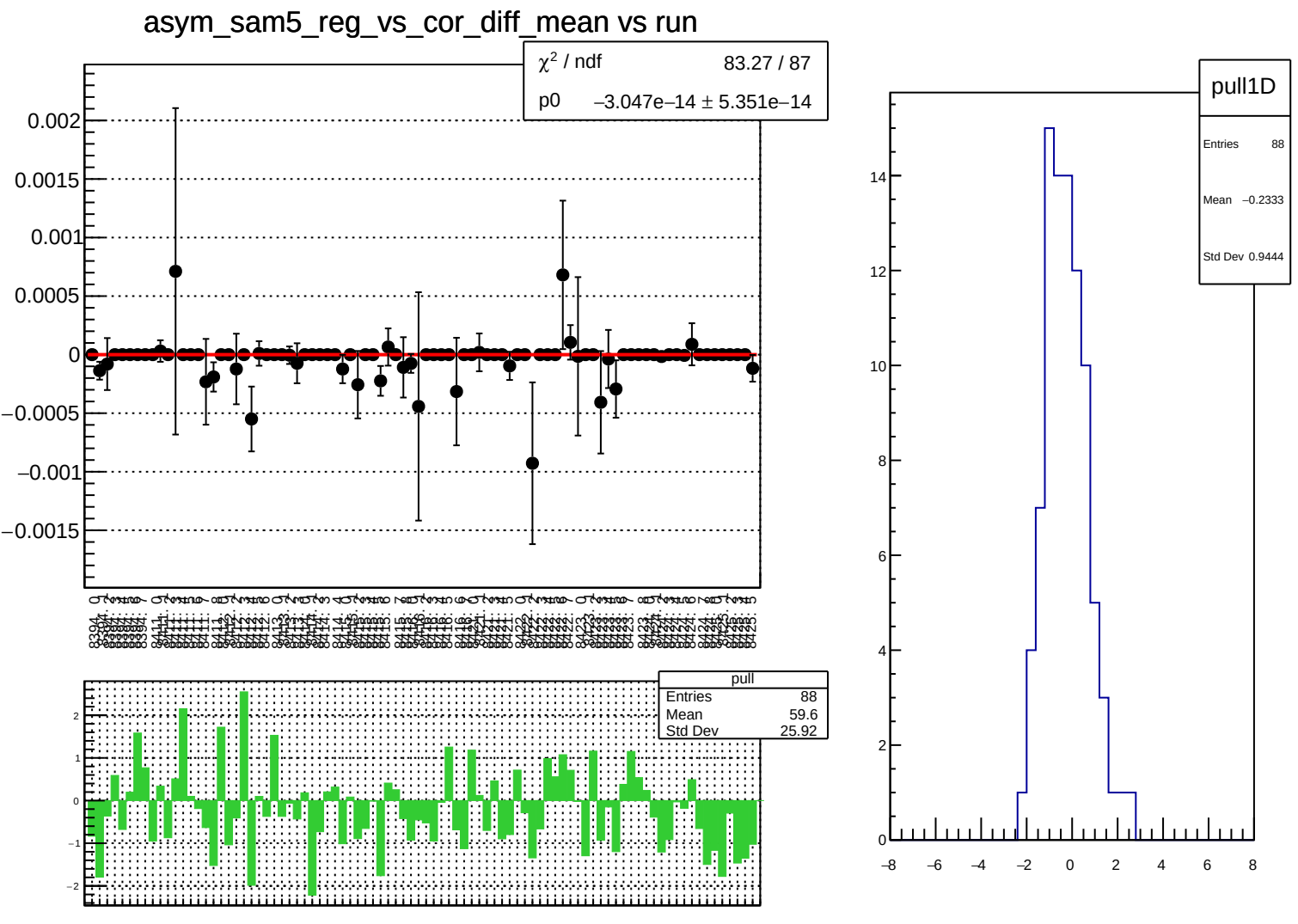

pull1D
Entries 88
Mean 0.004678
Std Dev 1.055
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

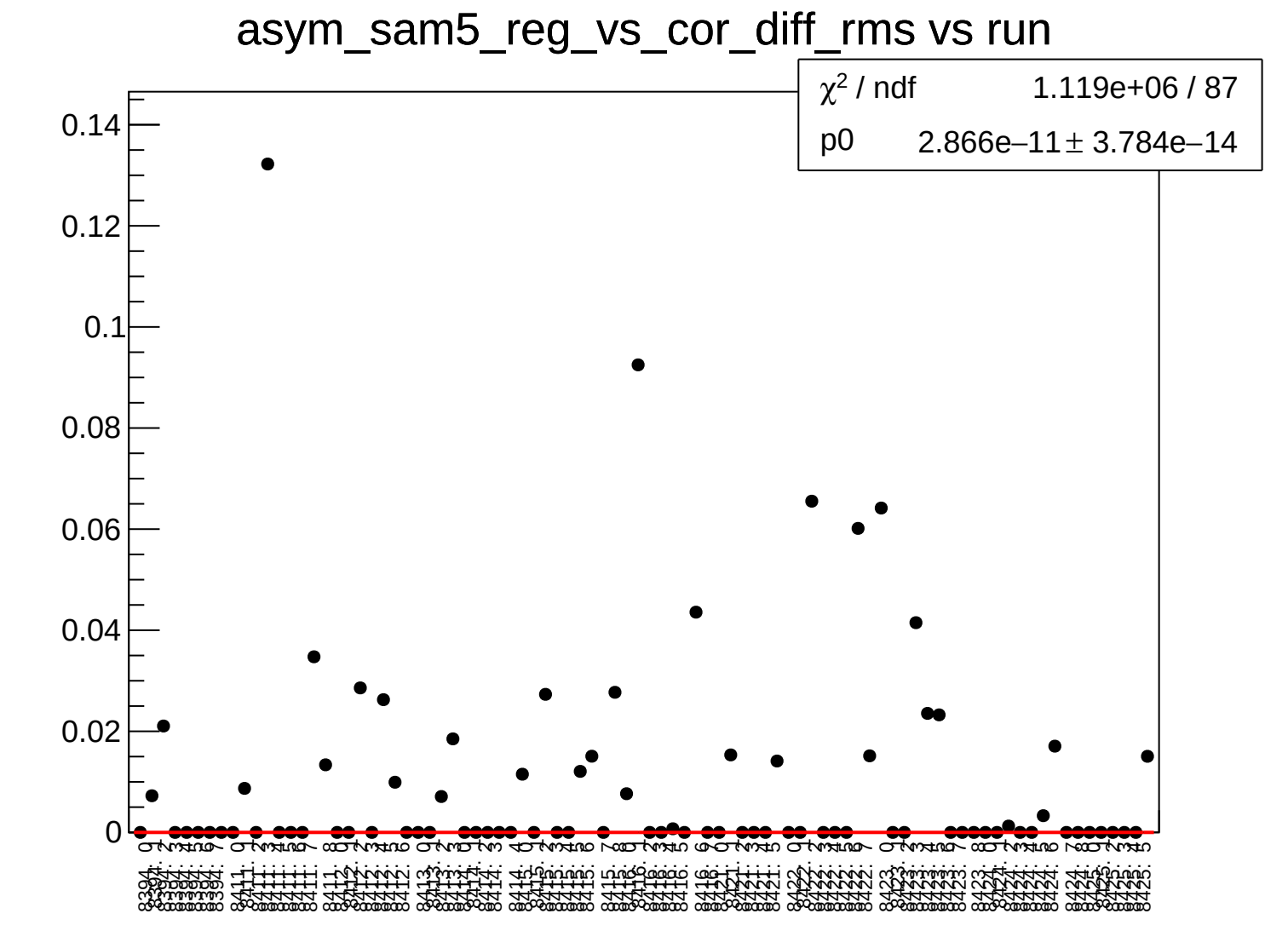

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 1.026e+04 / 87
p0 954.1 ± 0.7356
1200
1150
1100
1050
1000
950
900
850

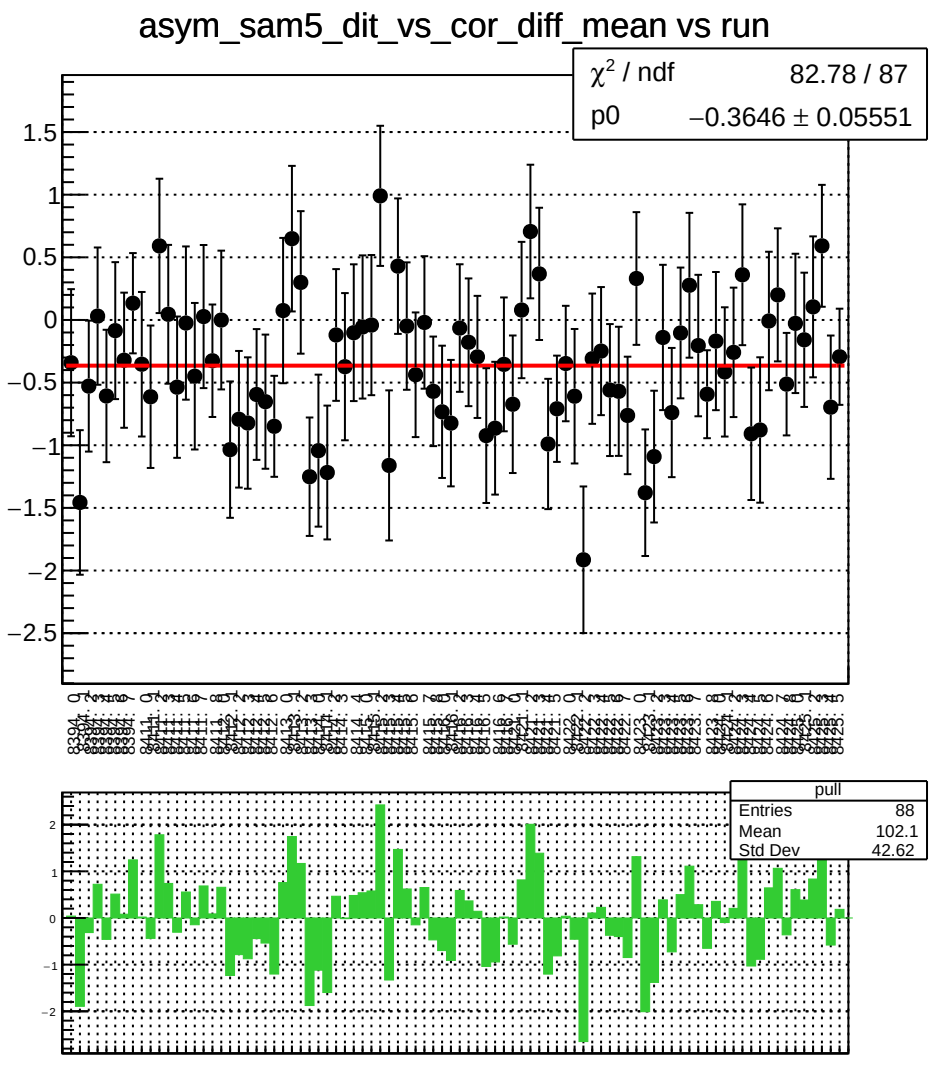

asym_sam5_mean vs run
χ² / ndf 96.39 / 87
p0 4018 ± 1037
pull
Entries 88
Mean −139.4
Std Dev 0

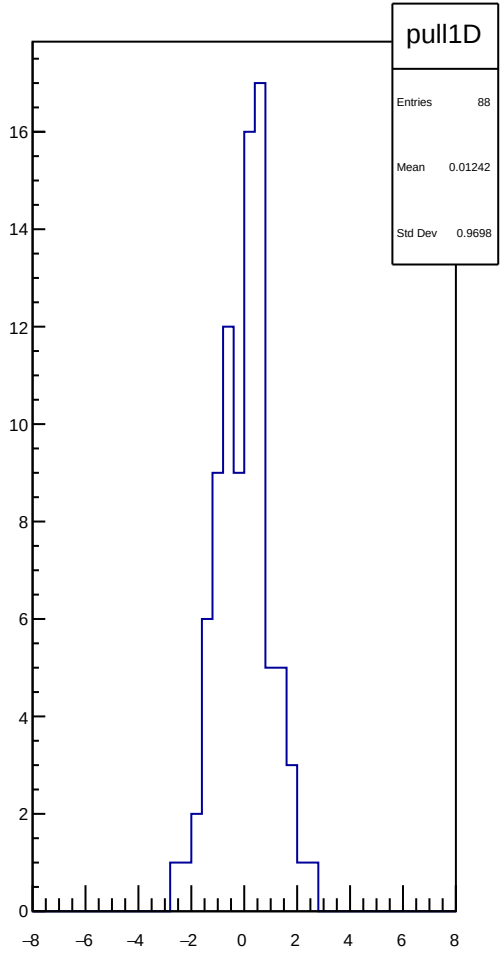

pull1D
Entries 88
Mean −0.005773
Std Dev 1.047

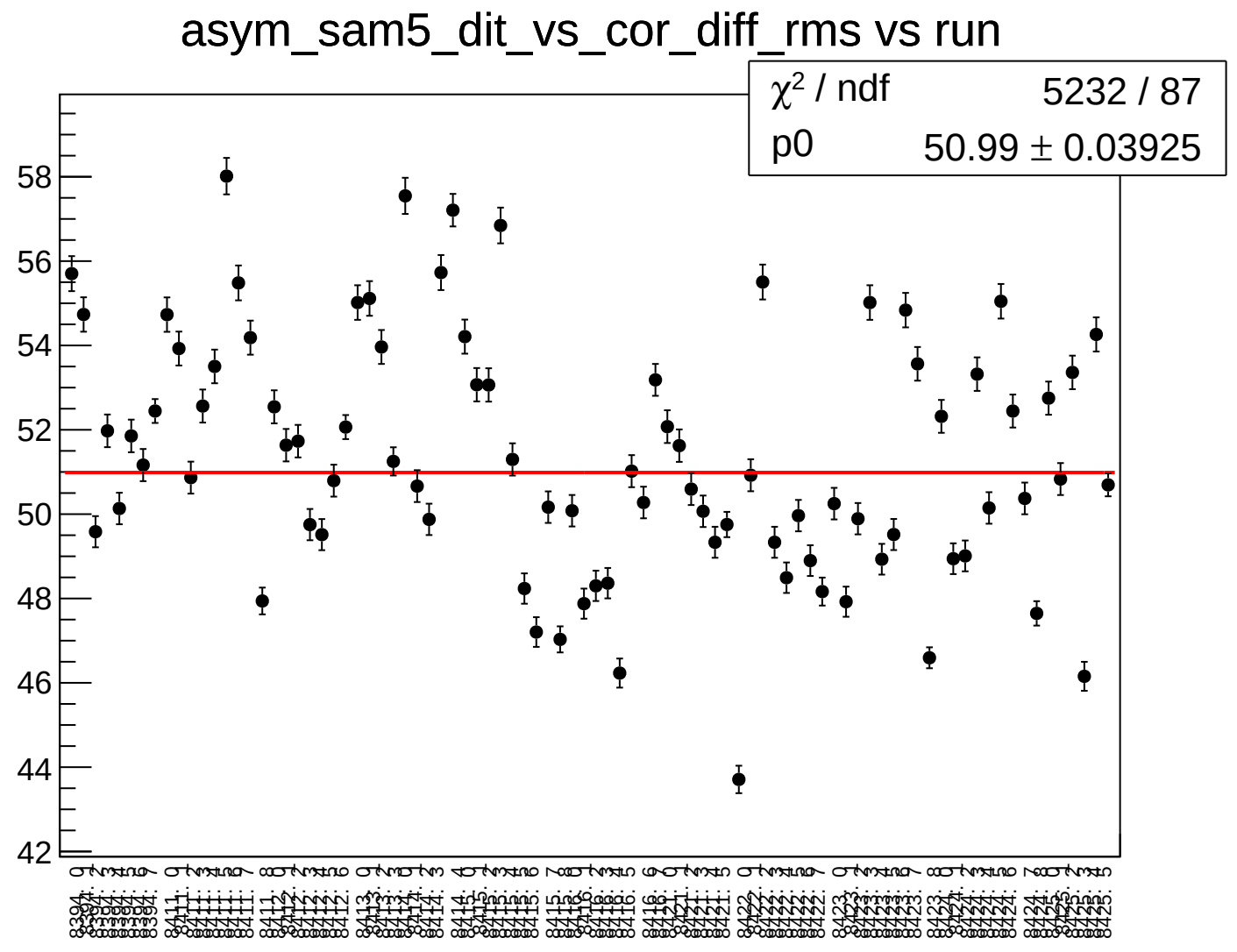

asym_sam5_rms vs run
χ^2 / ndf 1.085e+04 / 87
p0 950.6 ± 0.733
1200
1150
1100
1050
1000
950
900
850
800

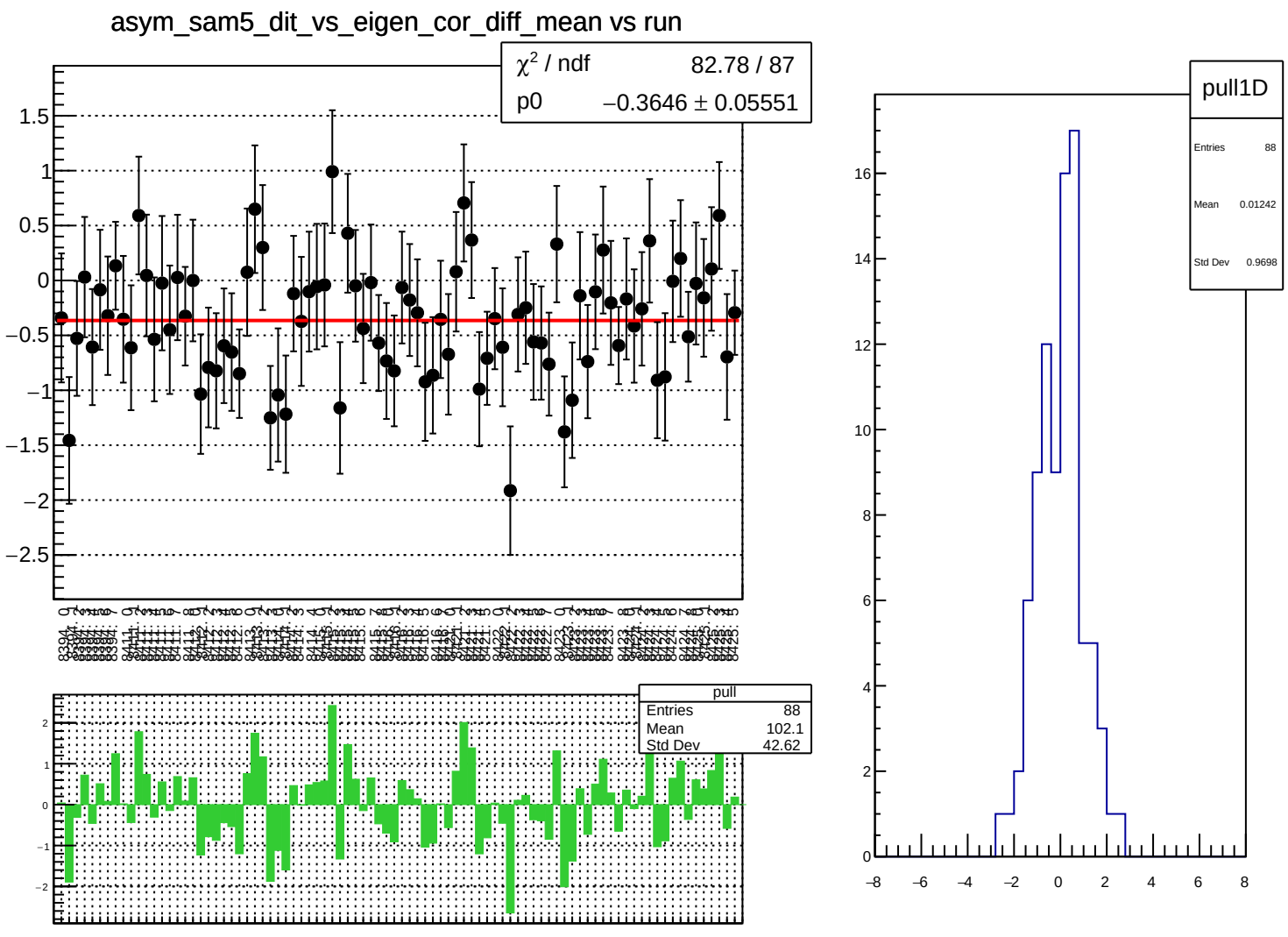

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 83.27 / 87
p0 −3.047e−14 ± 5.351e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 88
Mean 59.6
Std Dev 25.92
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.2333
Std Dev 0.9444
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

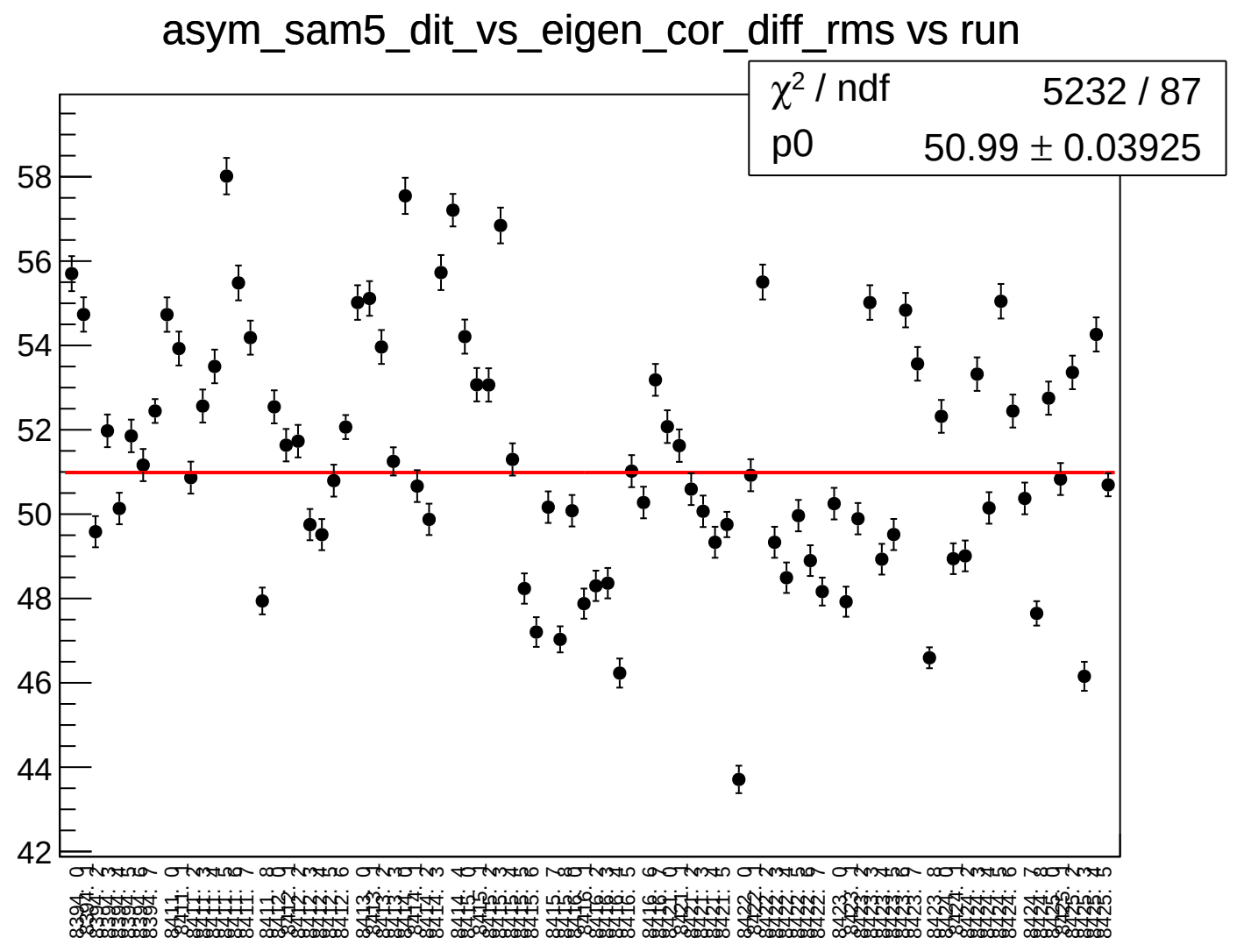

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 1.119e+06 / 87
p0 2.866e−11 ± 3.784e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

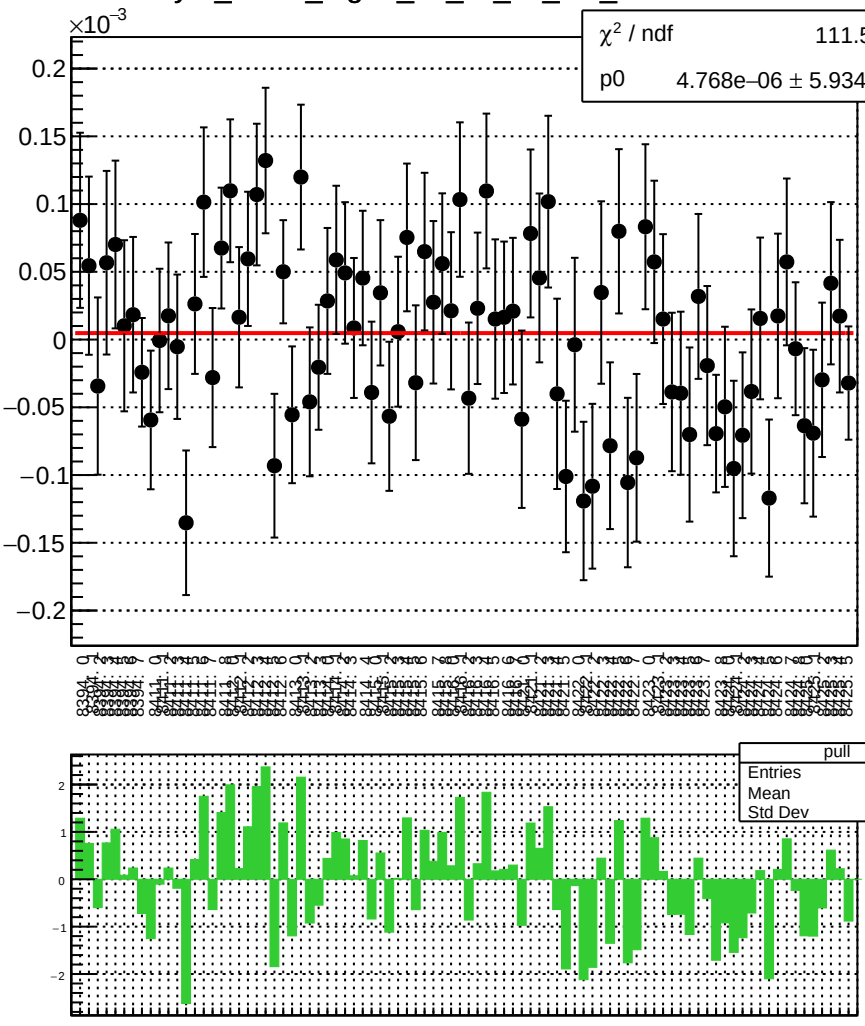

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 82.78 / 87
p0 −0.3646 ± 0.05551
pull
Entries 88
Mean 102.1
Std Dev 42.62

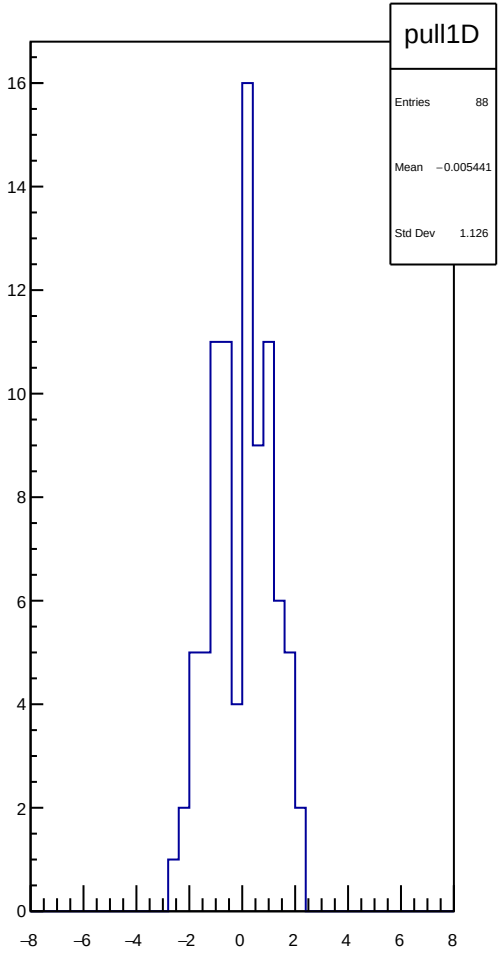

pull1D
Entries 88
Mean 0.01242
Std Dev 0.9698

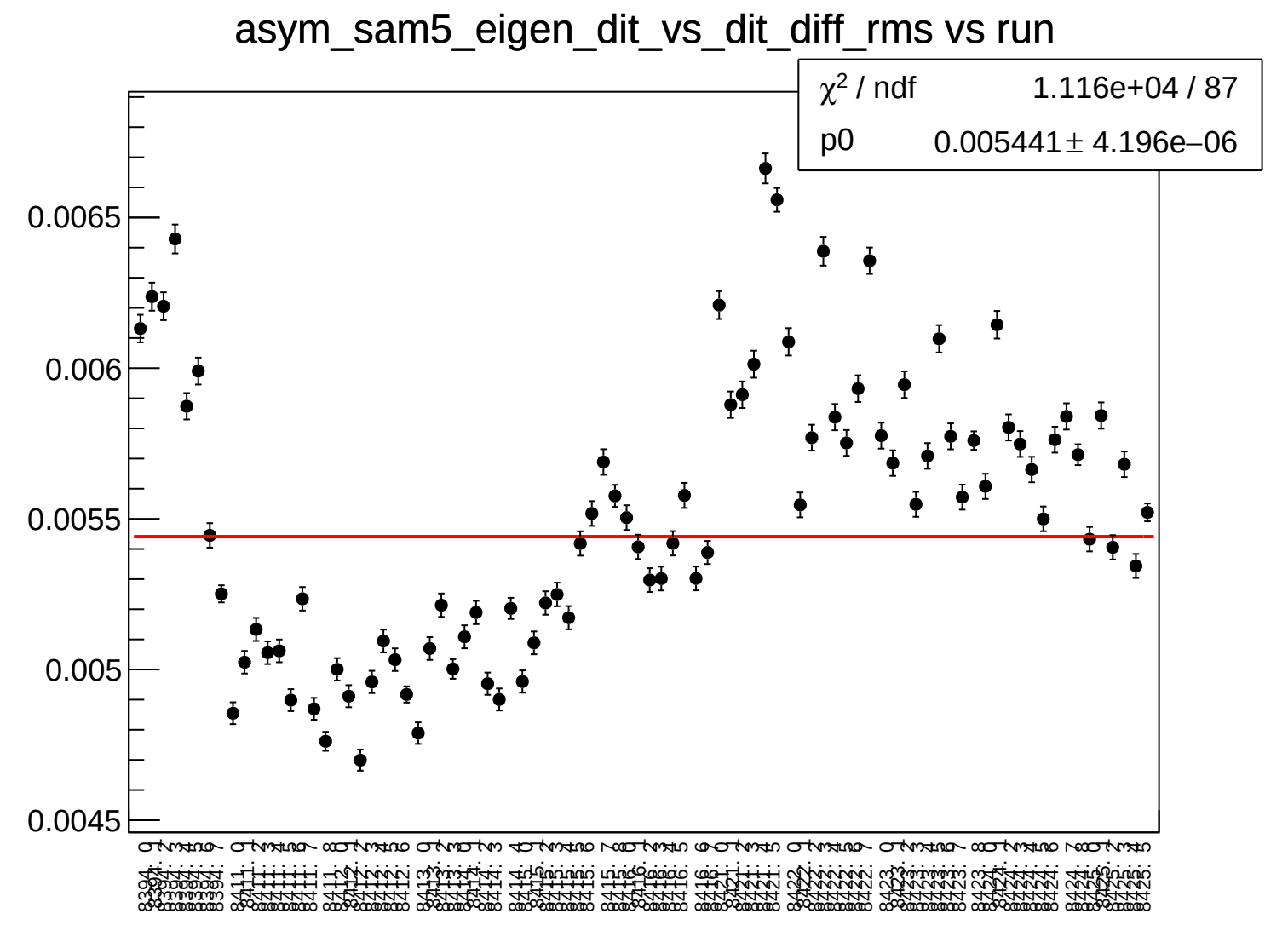

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 5232 / 87
p0 50.99 ± 0.03925
58
56
54
52
50
48
46
44
42

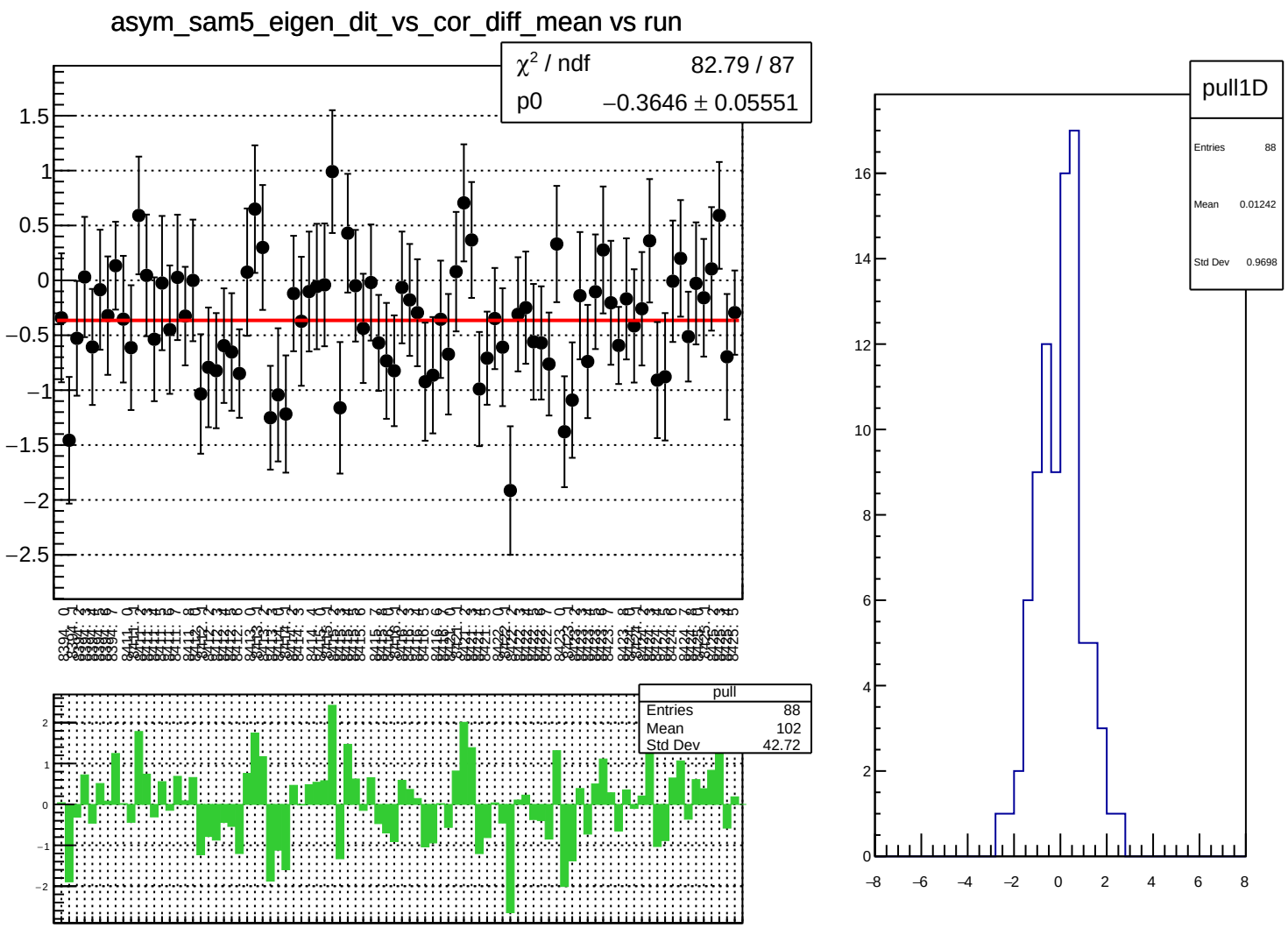

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.78 / 87
p0 −0.3646 ± 0.05551
pull
Entries 88
Mean 102.1
Std Dev 42.62
pull1D
Entries 88
Mean 0.01242
Std Dev 0.9698

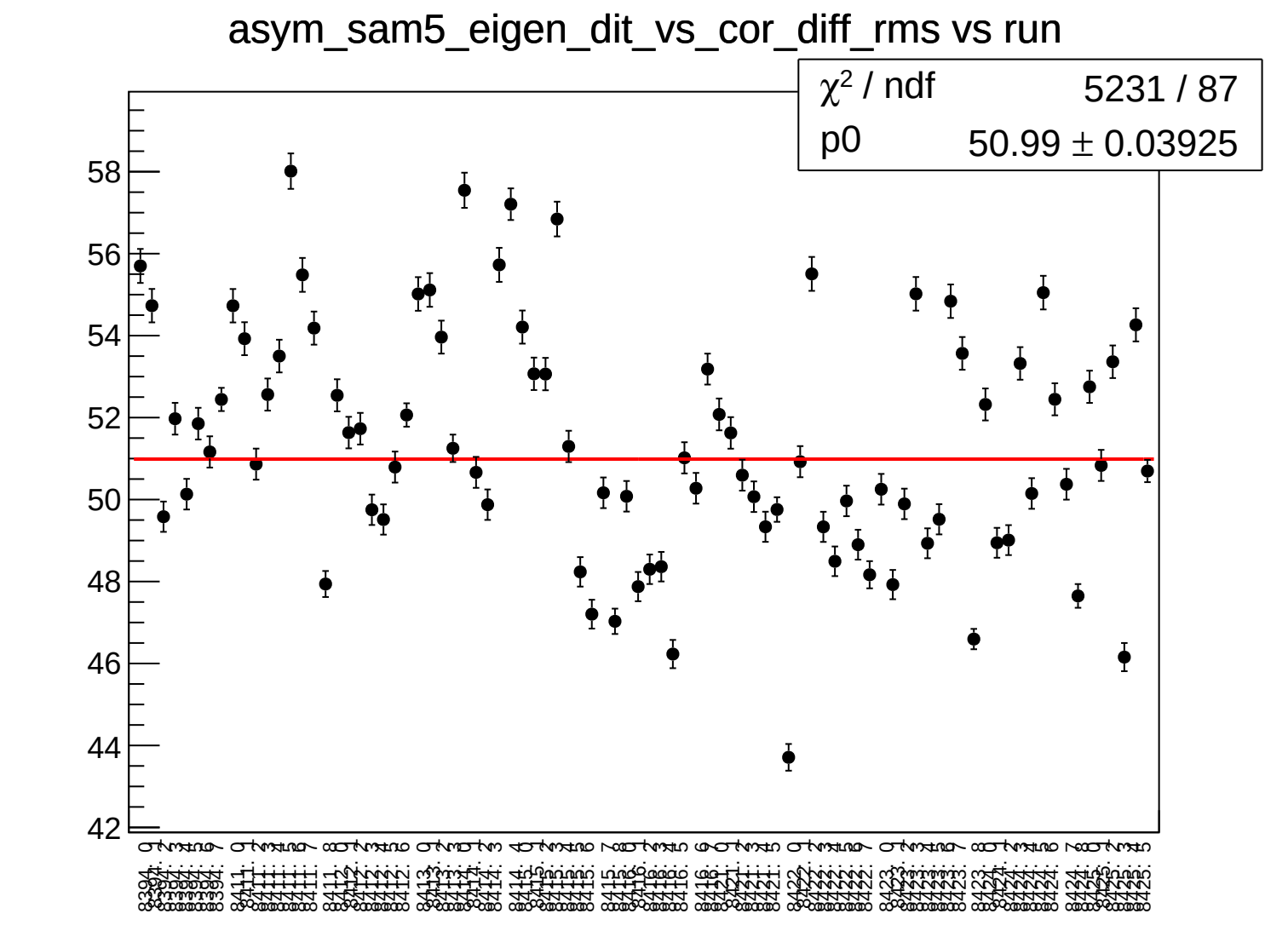

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5232 / 87
p0 50.99 ± 0.03925
58
56
54
52
50
48
46
44
42

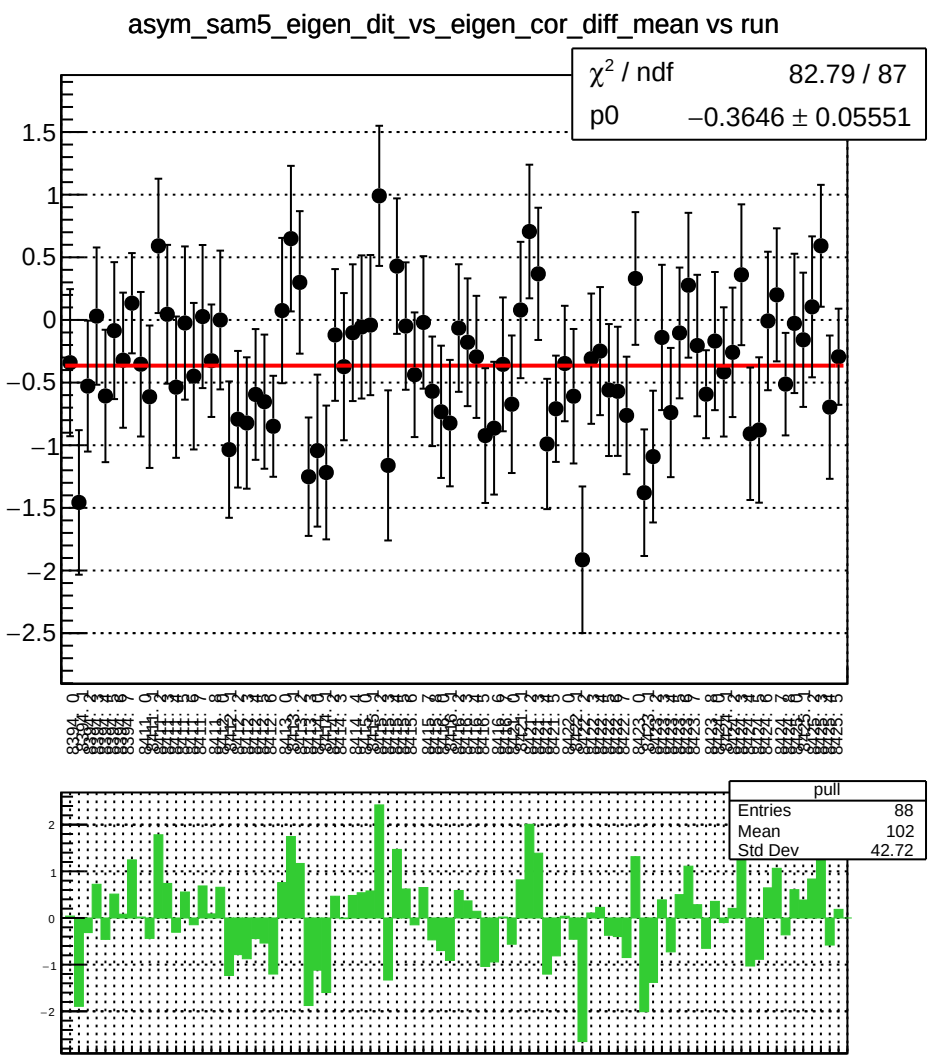

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 111.5 / 87
p0 4.768e−06 ± 5.934e−06
pull
Entries 88
Mean 1616
Std Dev 0

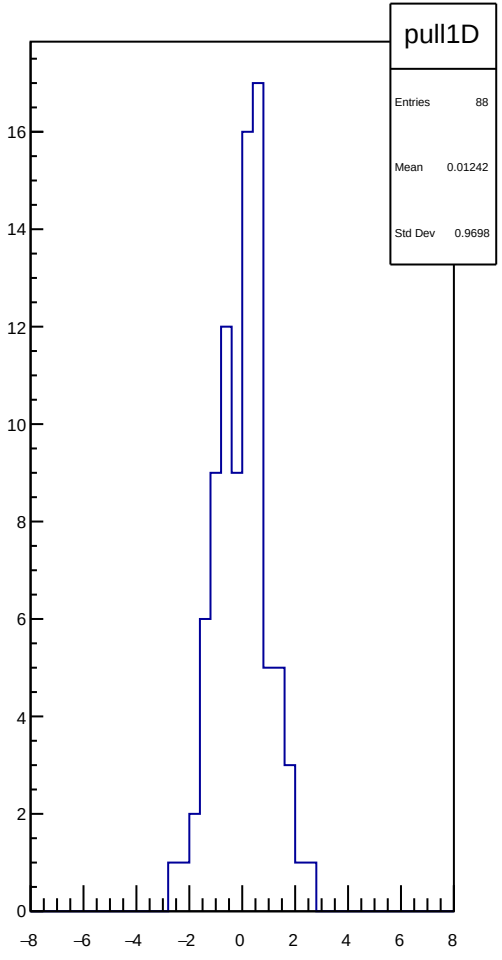

pull1D
Entries 88
Mean −0.005441
Std Dev 1.126

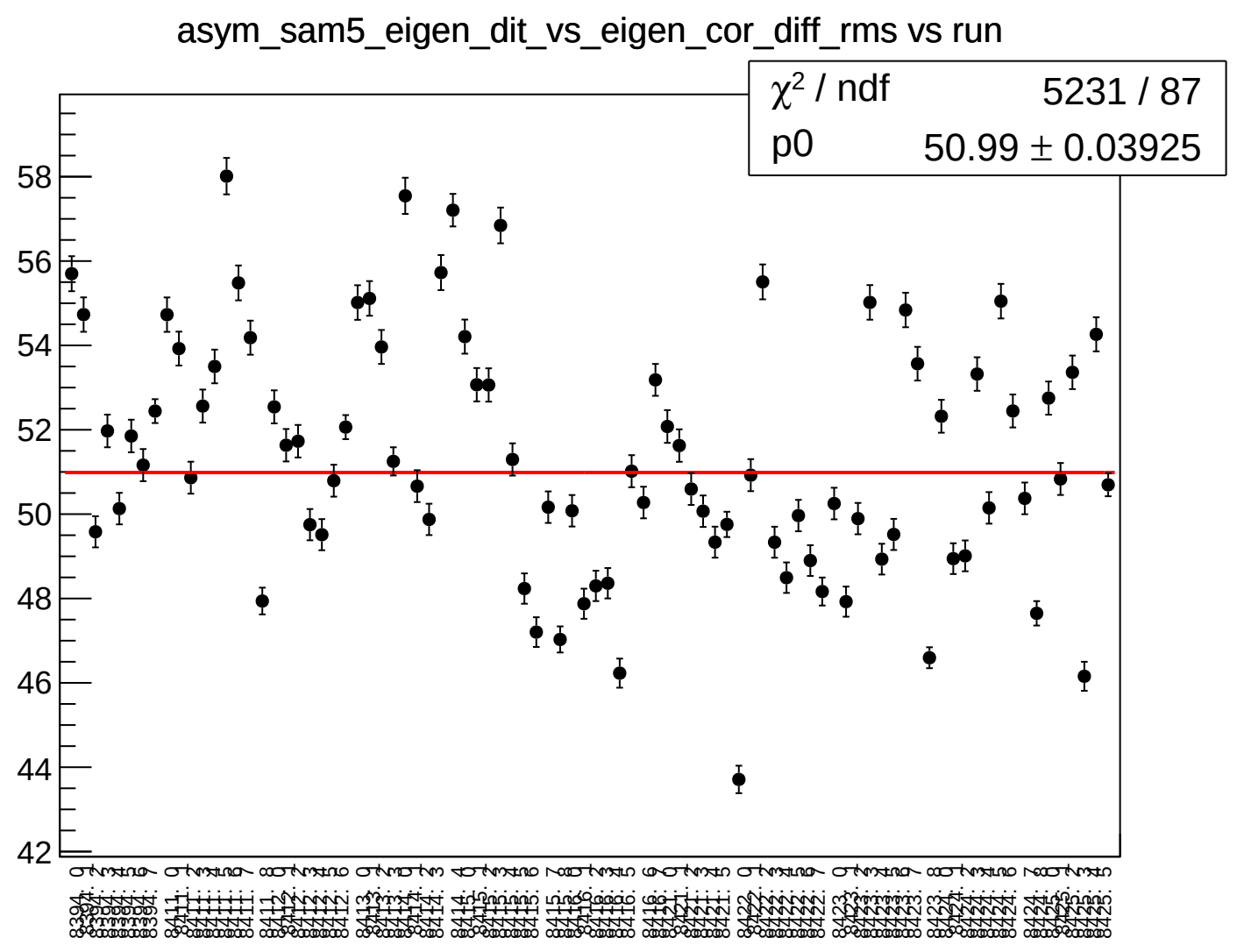

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.116e+04 / 87
p0 0.005441 ± 4.196e−06
0.0065
0.006
0.0055
0.005
0.0045

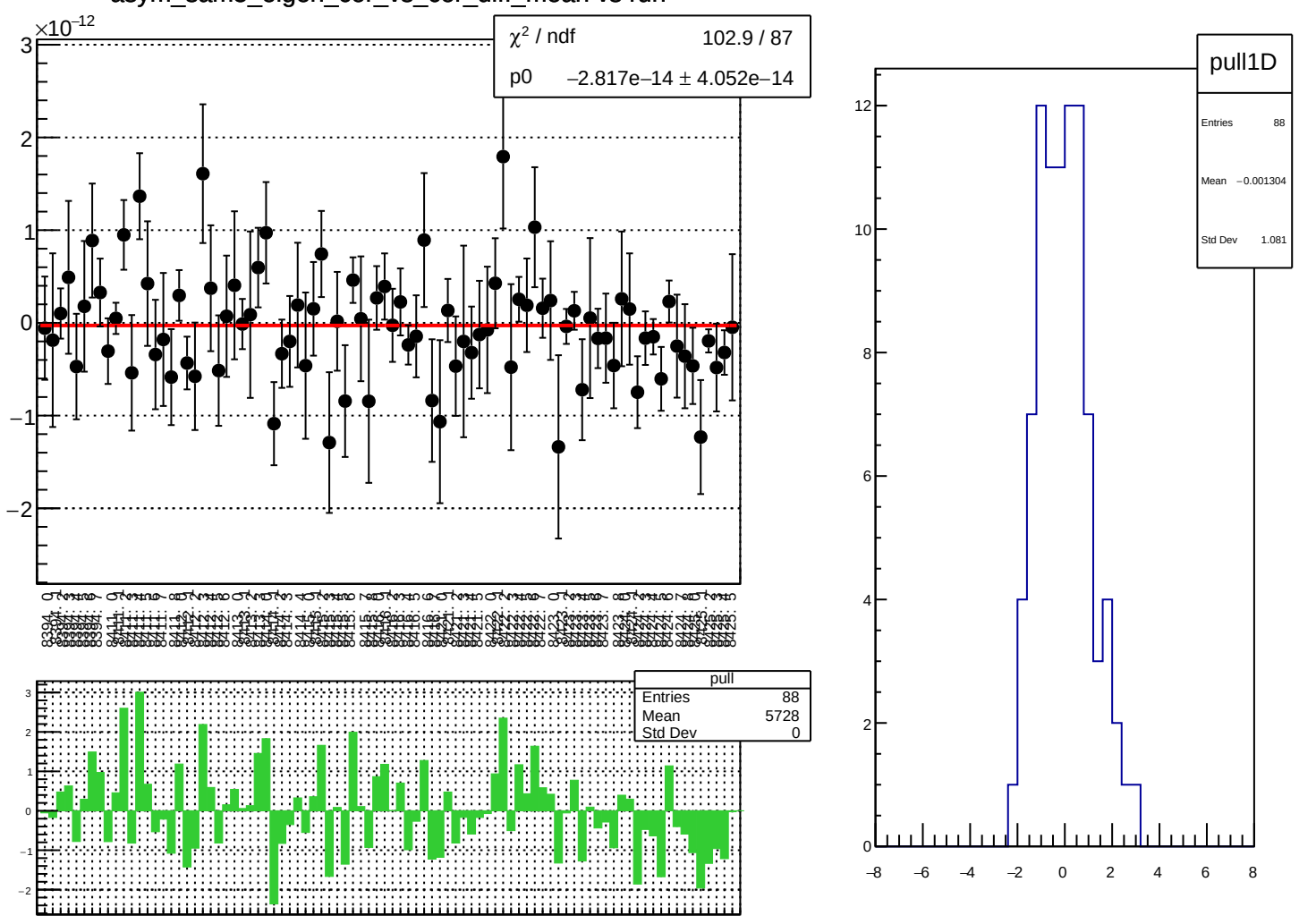

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.79 / 87
p0 −0.3646 ± 0.05551
pull
Entries 88
Mean 102
Std Dev 42.72
pull1D
Entries 88
Mean 0.01242
Std Dev 0.9698

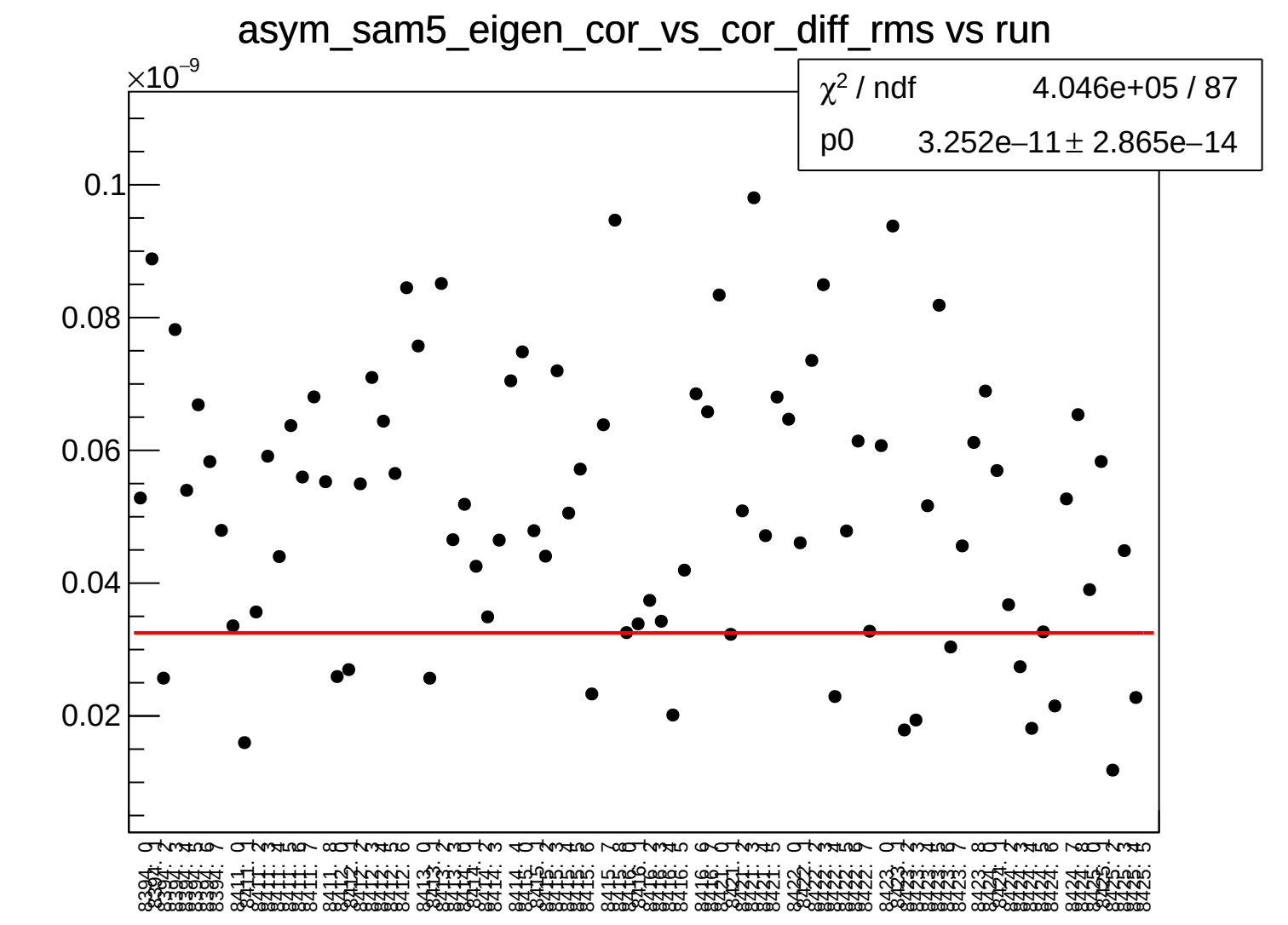

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5231 / 87
p0 50.99 ± 0.03925
58
56
54
52
50
48
46
44
42

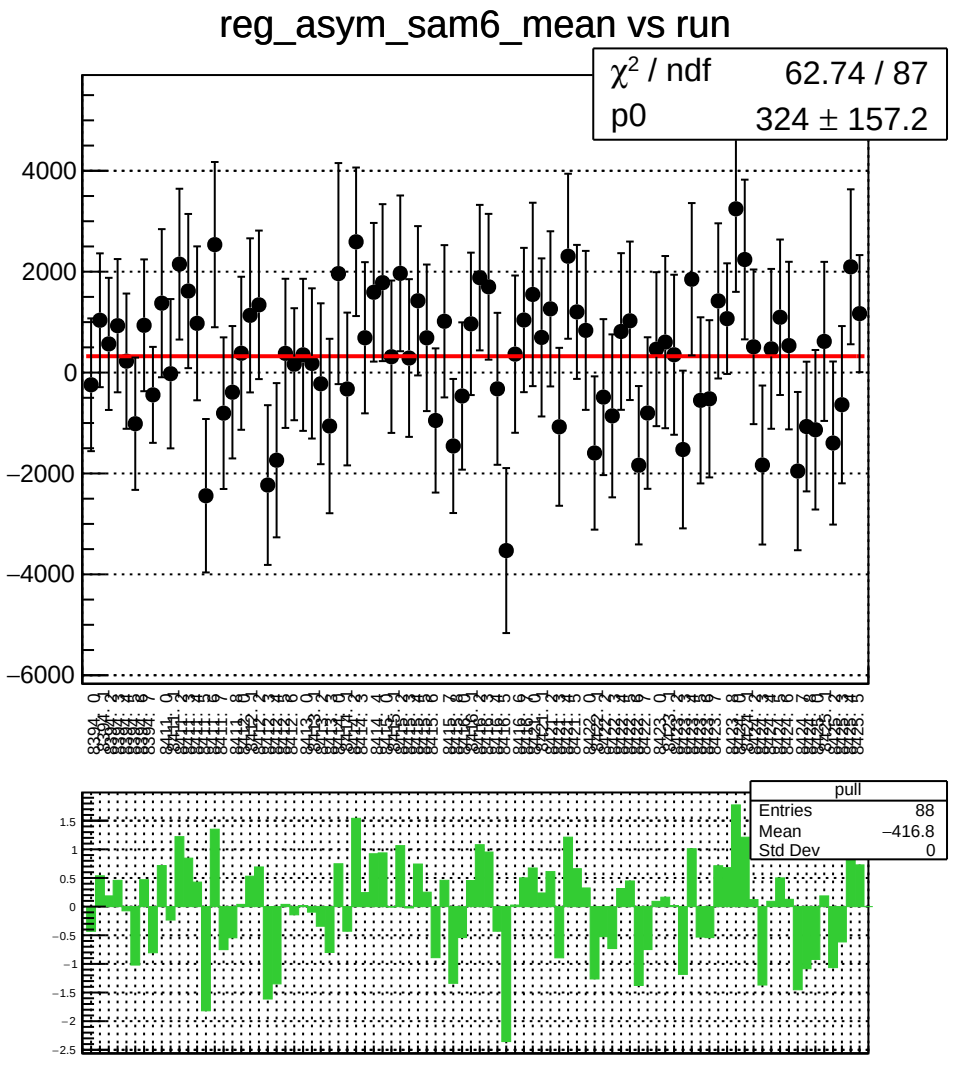

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.79 / 87
p0 −0.3646 ± 0.05551
pull
Entries 88
Mean 102
Std Dev 42.72

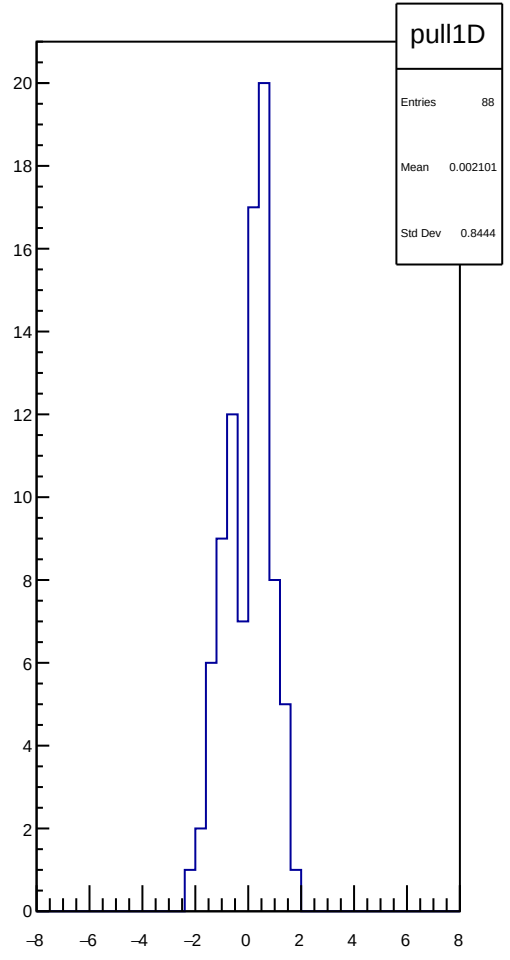

pull1D
Entries 88
Mean 0.01242
Std Dev 0.9698

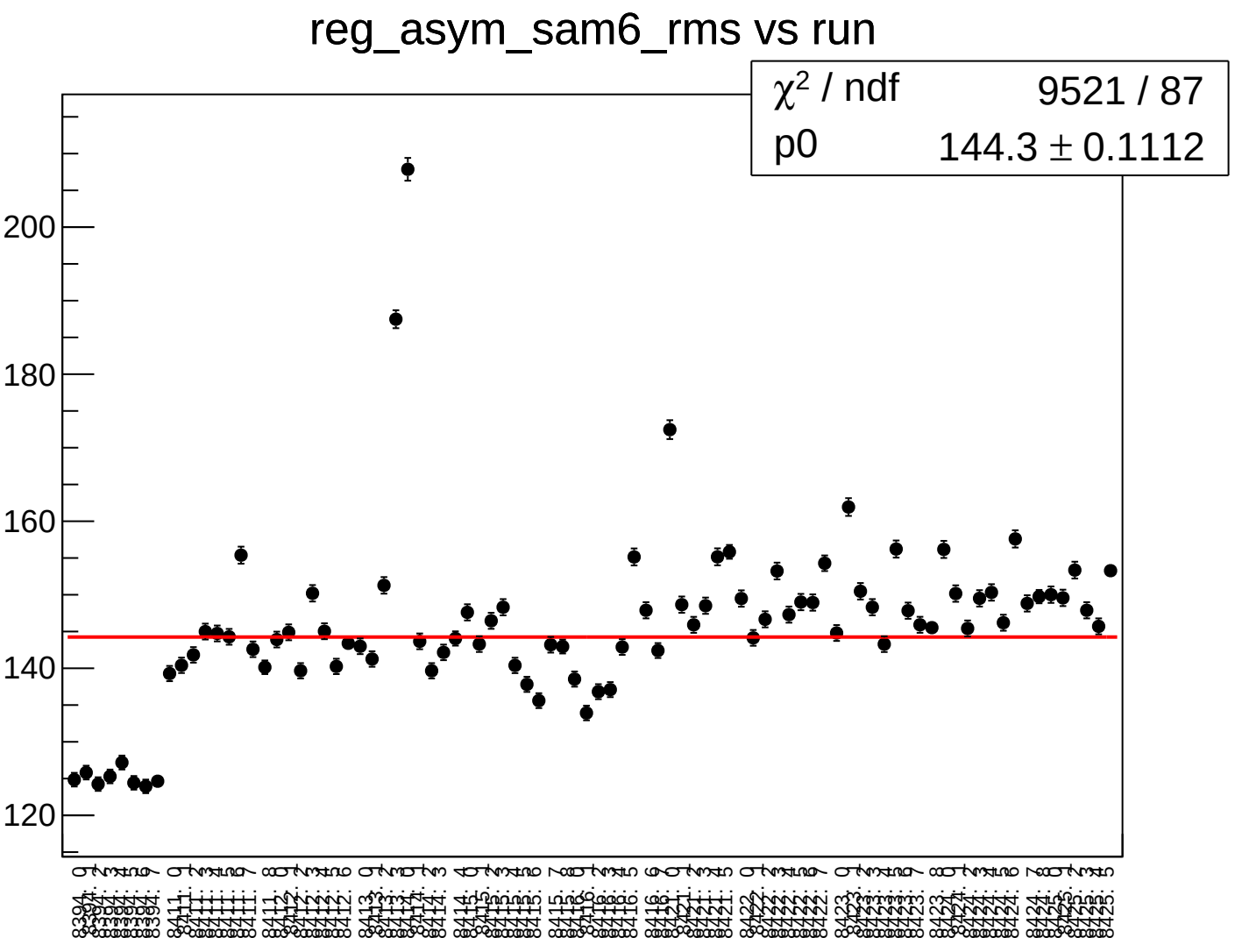

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5231 / 87
p0 50.99 ± 0.03925
58
56
54
52
50
48
46
44
42

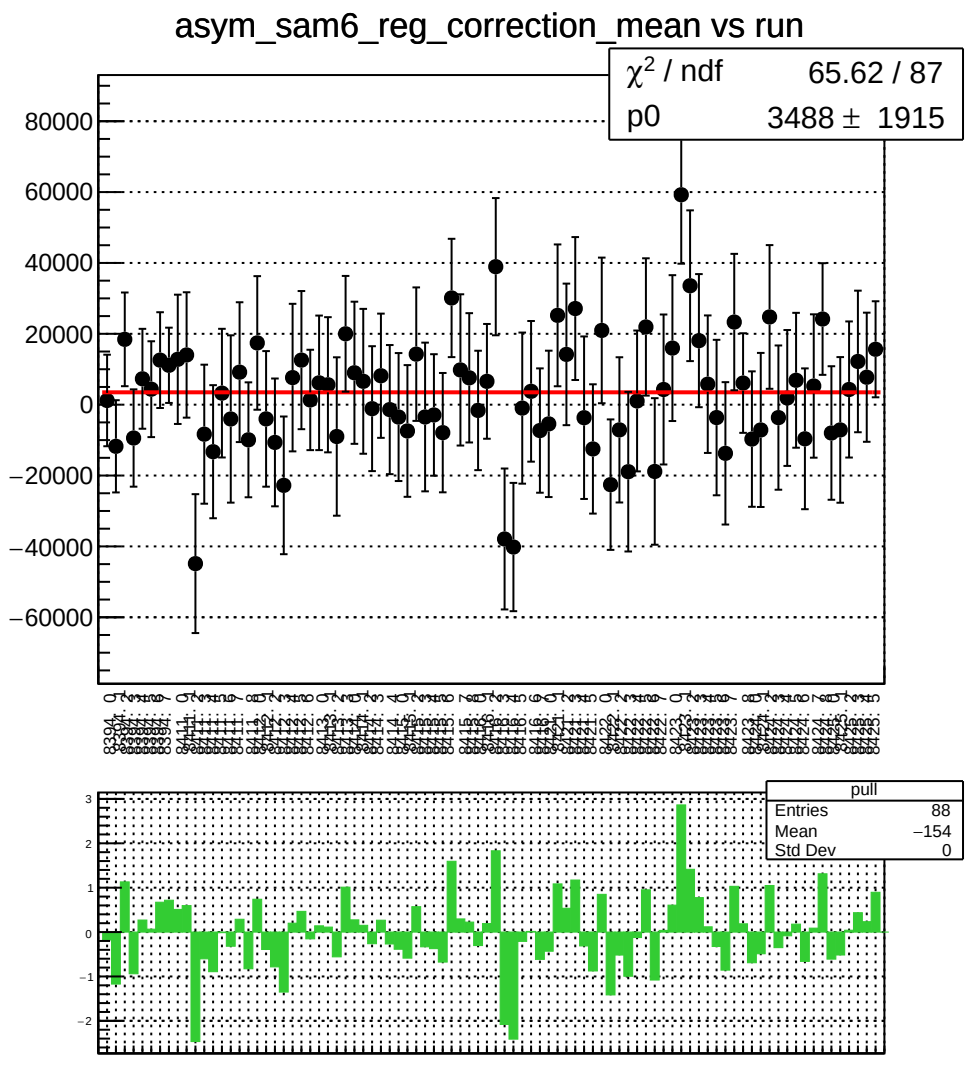

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.9 / 87
p0 −2.817e−14 ± 4.052e−14
pull
Entries 88
Mean 5728
Std Dev 0
pull1D
Entries 88
Mean −0.001304
Std Dev 1.081

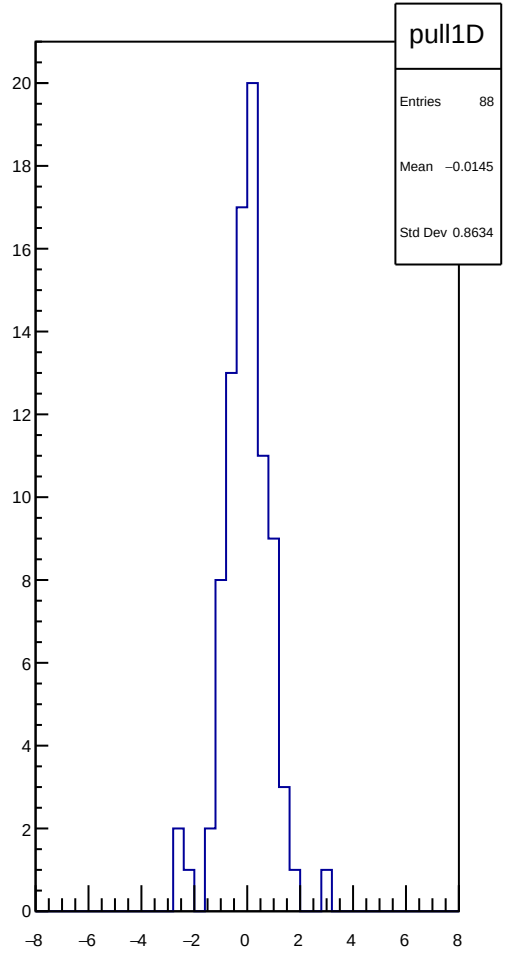

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.046e+05 / 87
p0 3.252e−11 ± 2.865e−14
0.1
0.08
0.06
0.04
0.02

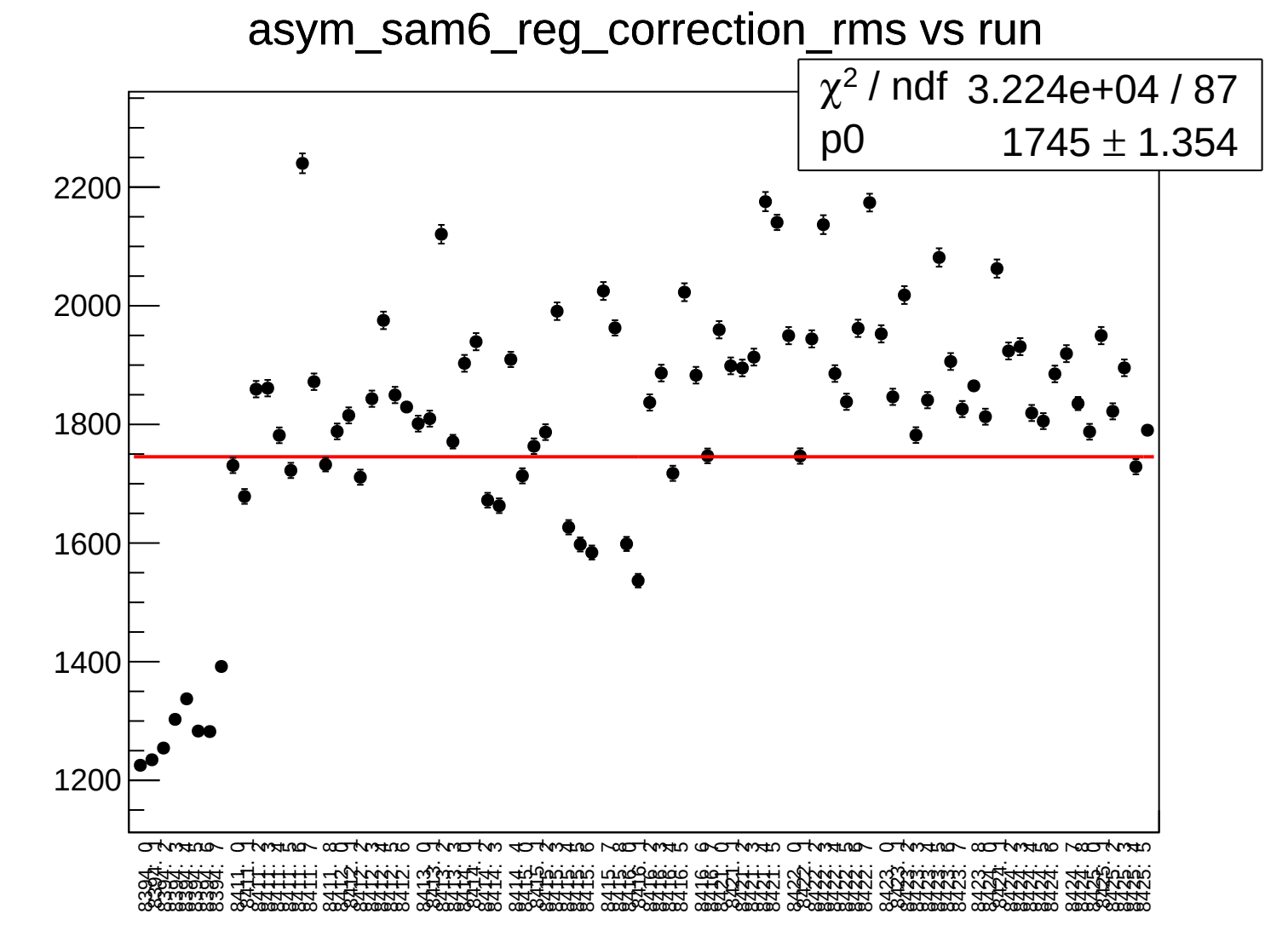

reg_asym_sam6_mean vs run
χ² / ndf 62.74 / 87
p0 324 ± 157.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −416.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

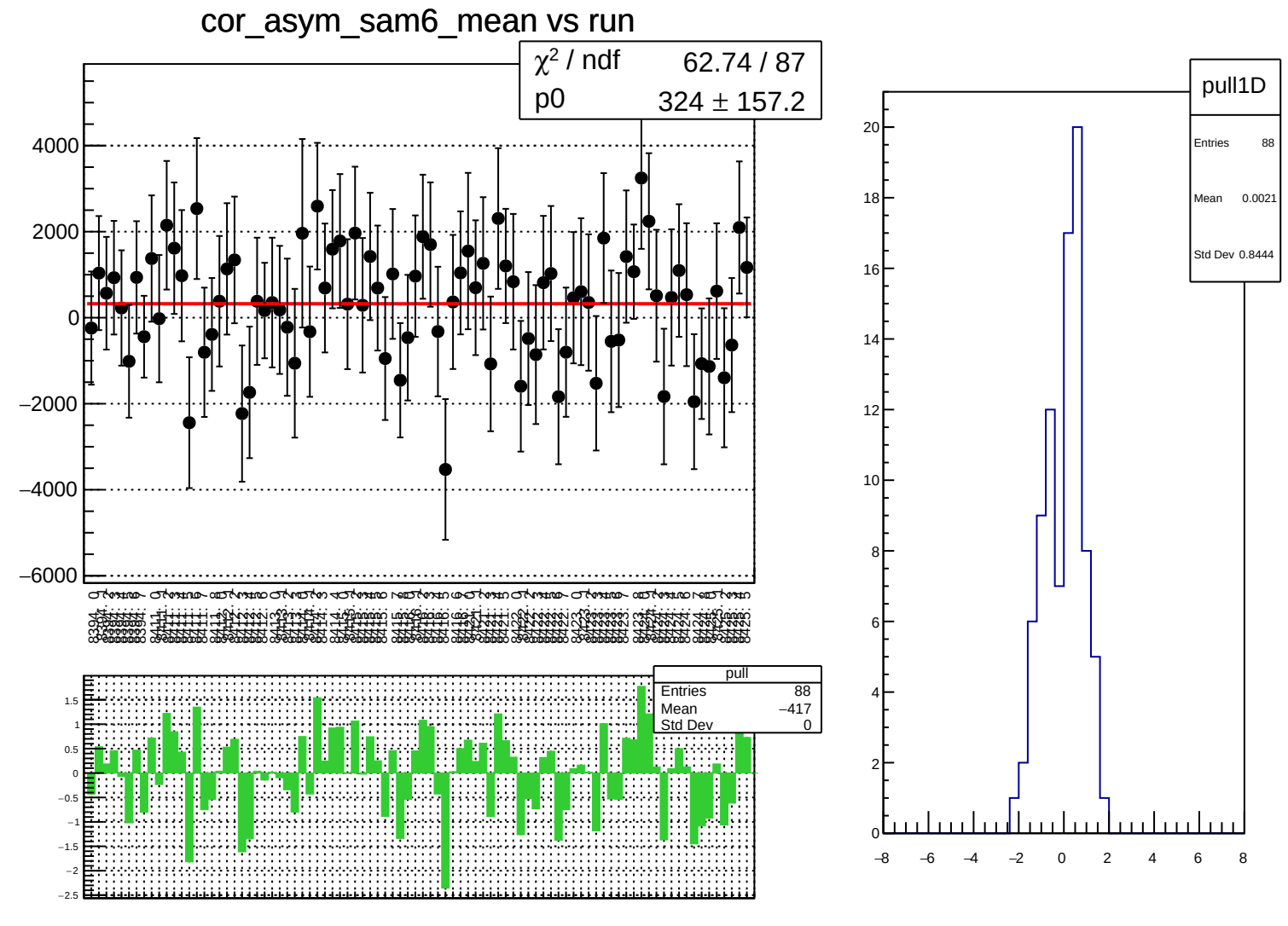

pull1D
Entries 88
Mean 0.002101
Std Dev 0.8444
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

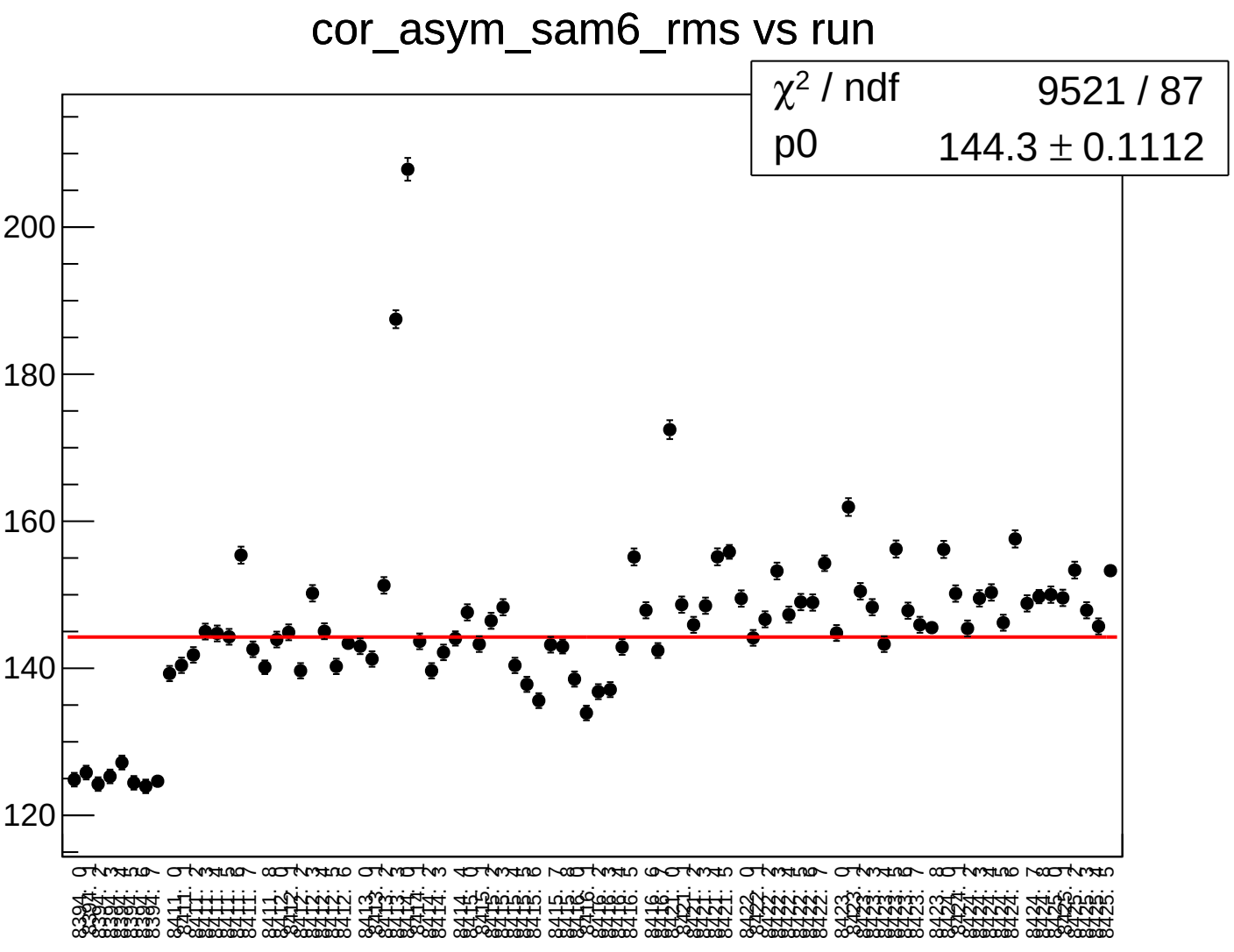

reg_asym_sam6_rms vs run
χ² / ndf 9521 / 87
p0 144.3 ± 0.1112
200
180
160
140
120

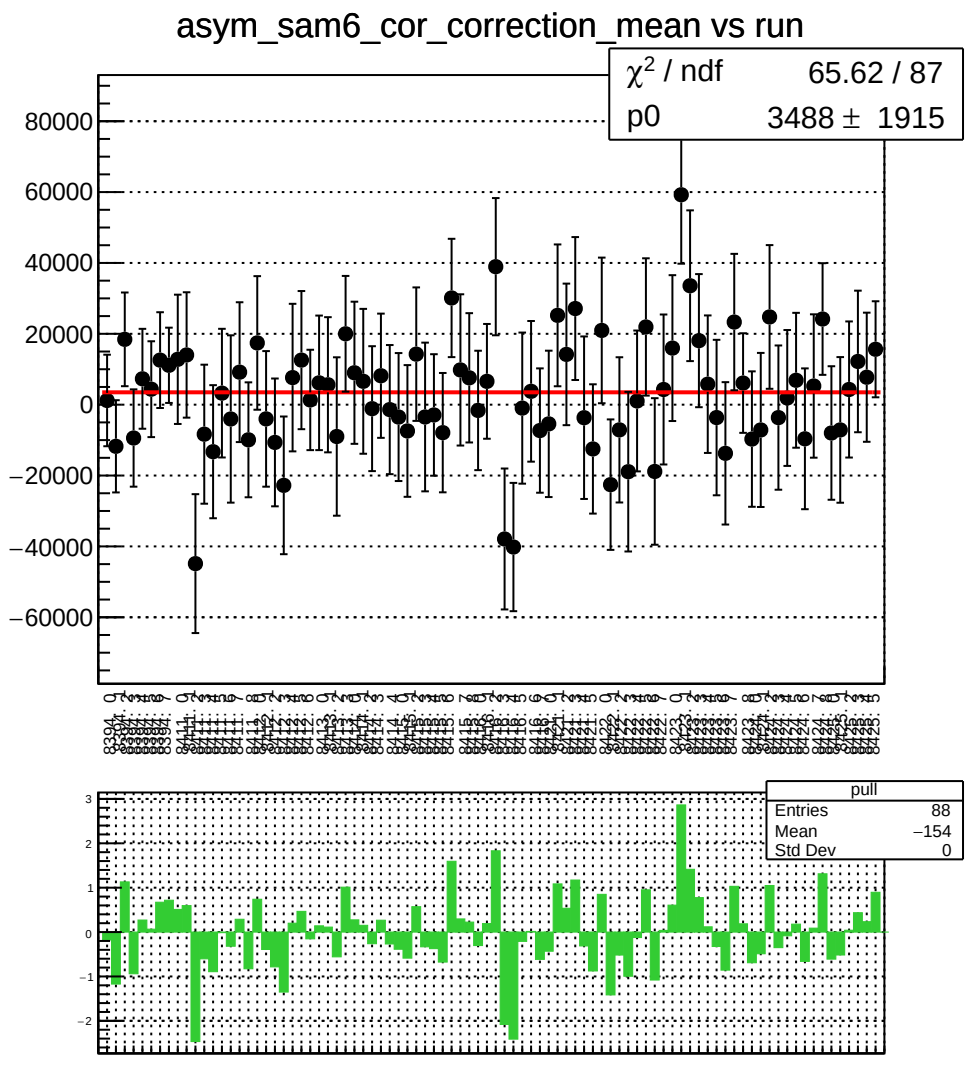

asym_sam6_reg_correction_mean vs run
χ² / ndf 65.62 / 87
p0 3488 ± 1915
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −154
Std Dev 0
3
2
1
0
−1
−2

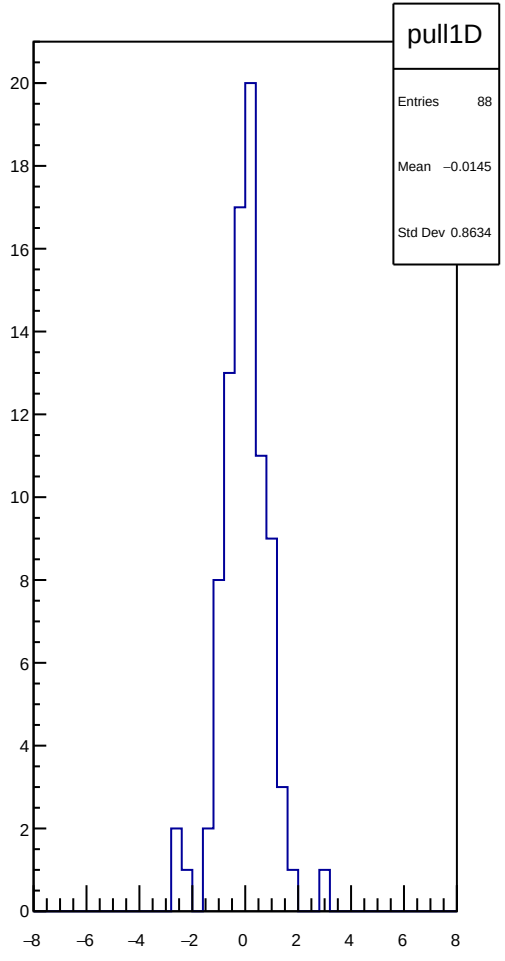

pull1D
Entries 88
Mean −0.0145
Std Dev 0.8634
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

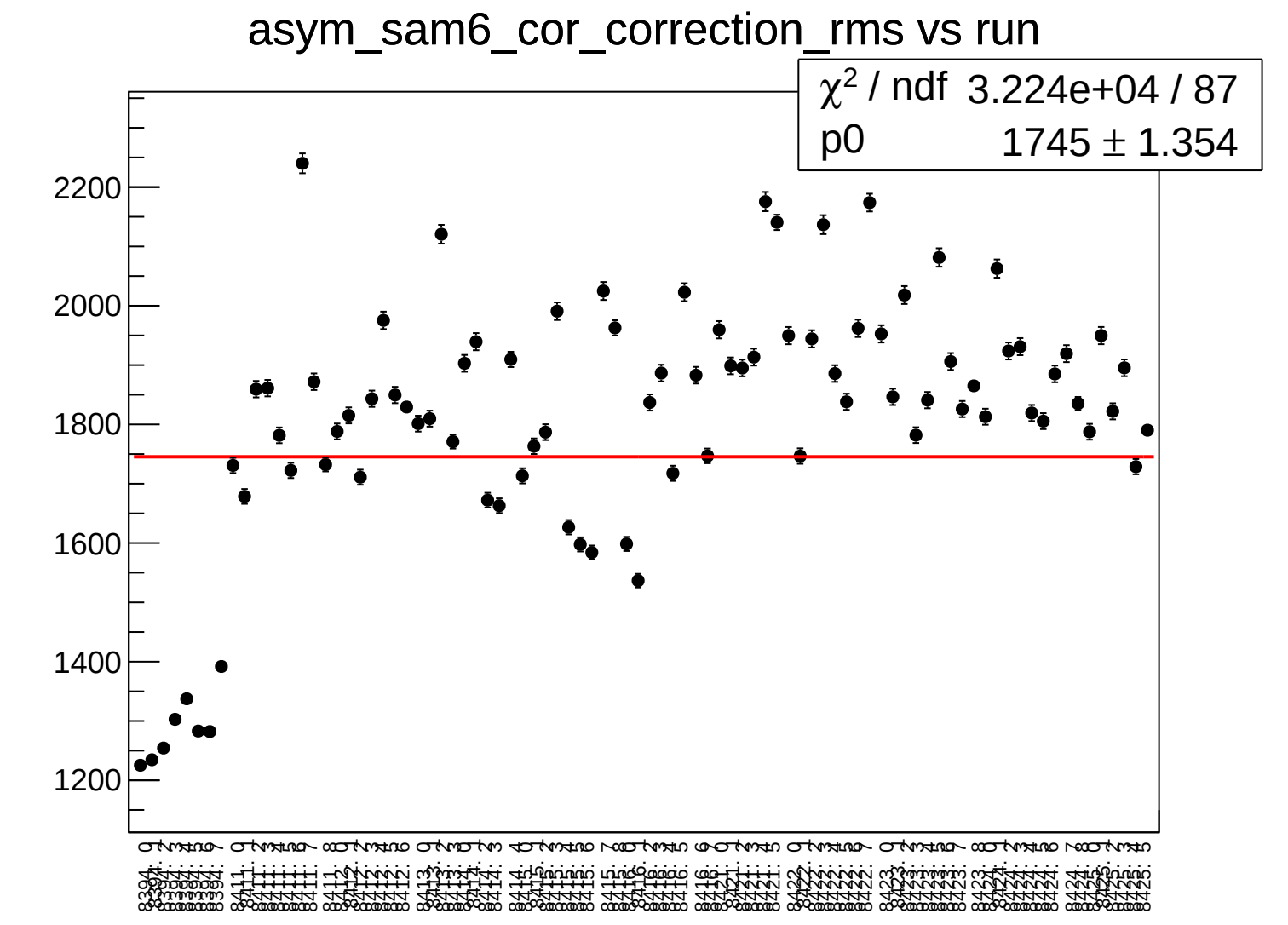

asym_sam6_reg_correction_rms vs run
χ² / ndf 3.224e+04 / 87
p0 1745 ± 1.354
2200
2000
1800
1600
1400
1200

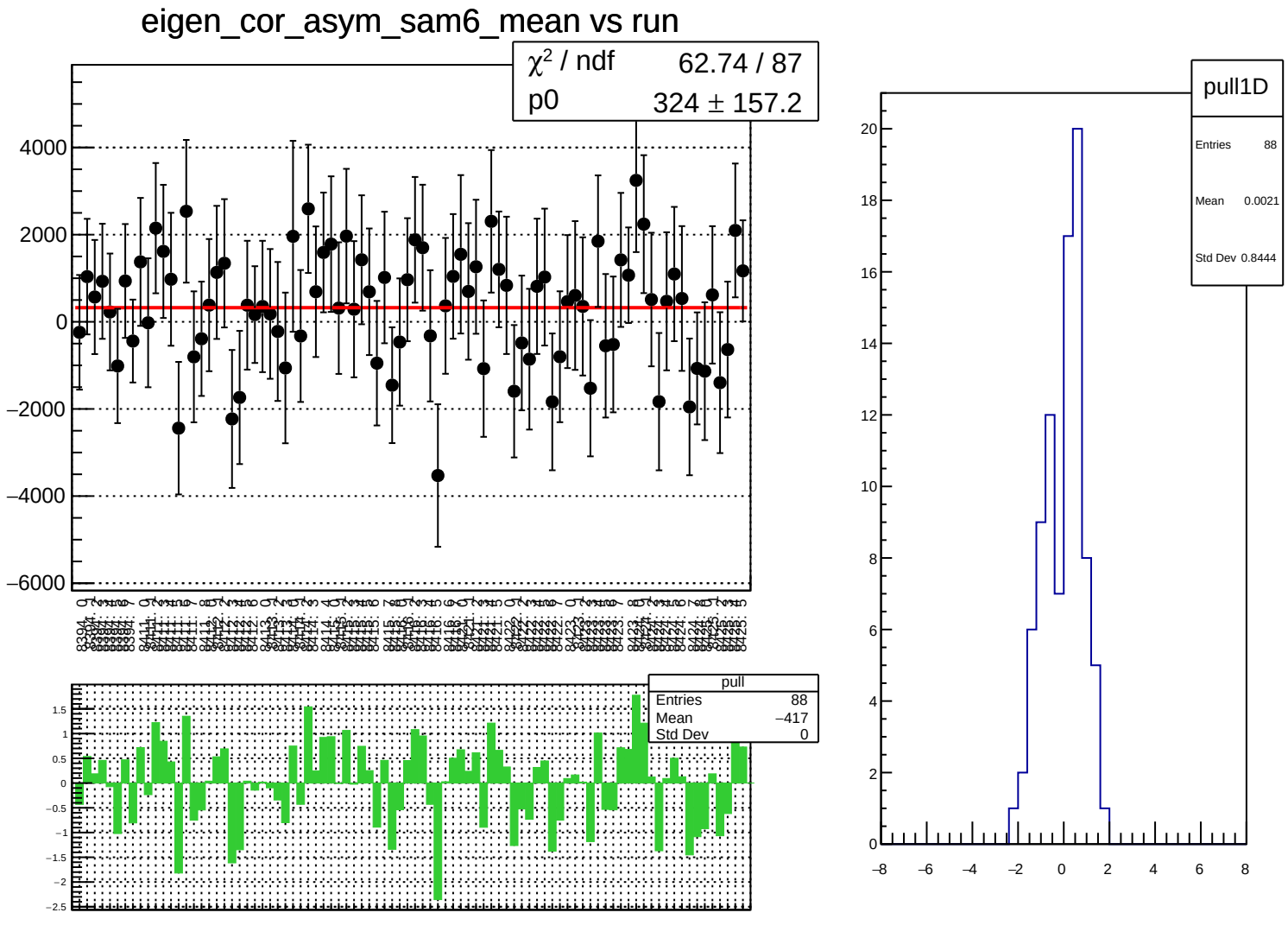

cor_asym_sam6_mean vs run
χ² / ndf 62.74 / 87
p0 324 ± 157.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −417
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 88
Mean 0.0021
Std Dev 0.8444
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

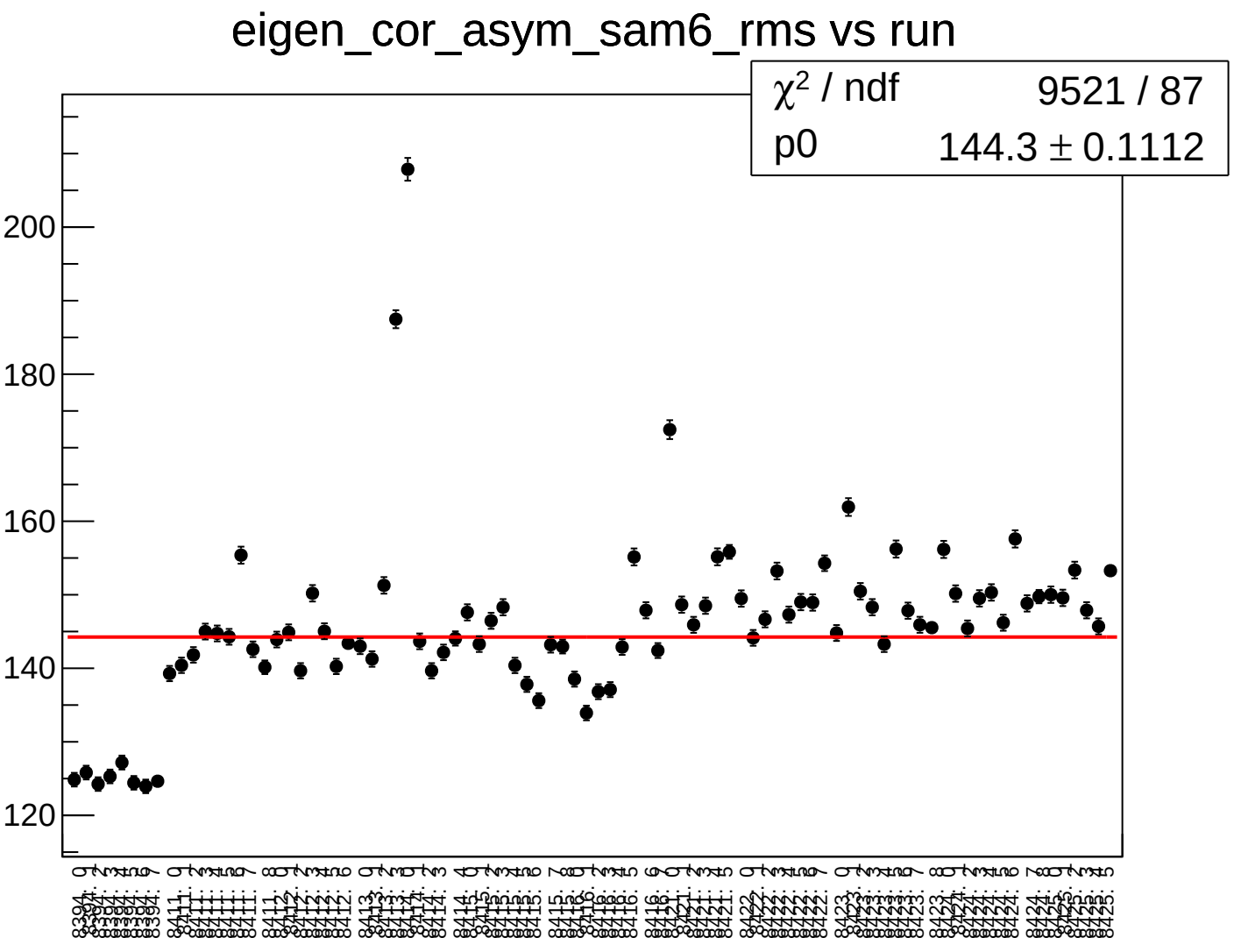

cor_asym_sam6_rms vs run
χ² / ndf 9521 / 87
p0 144.3 ± 0.1112
200
180
160
140
120

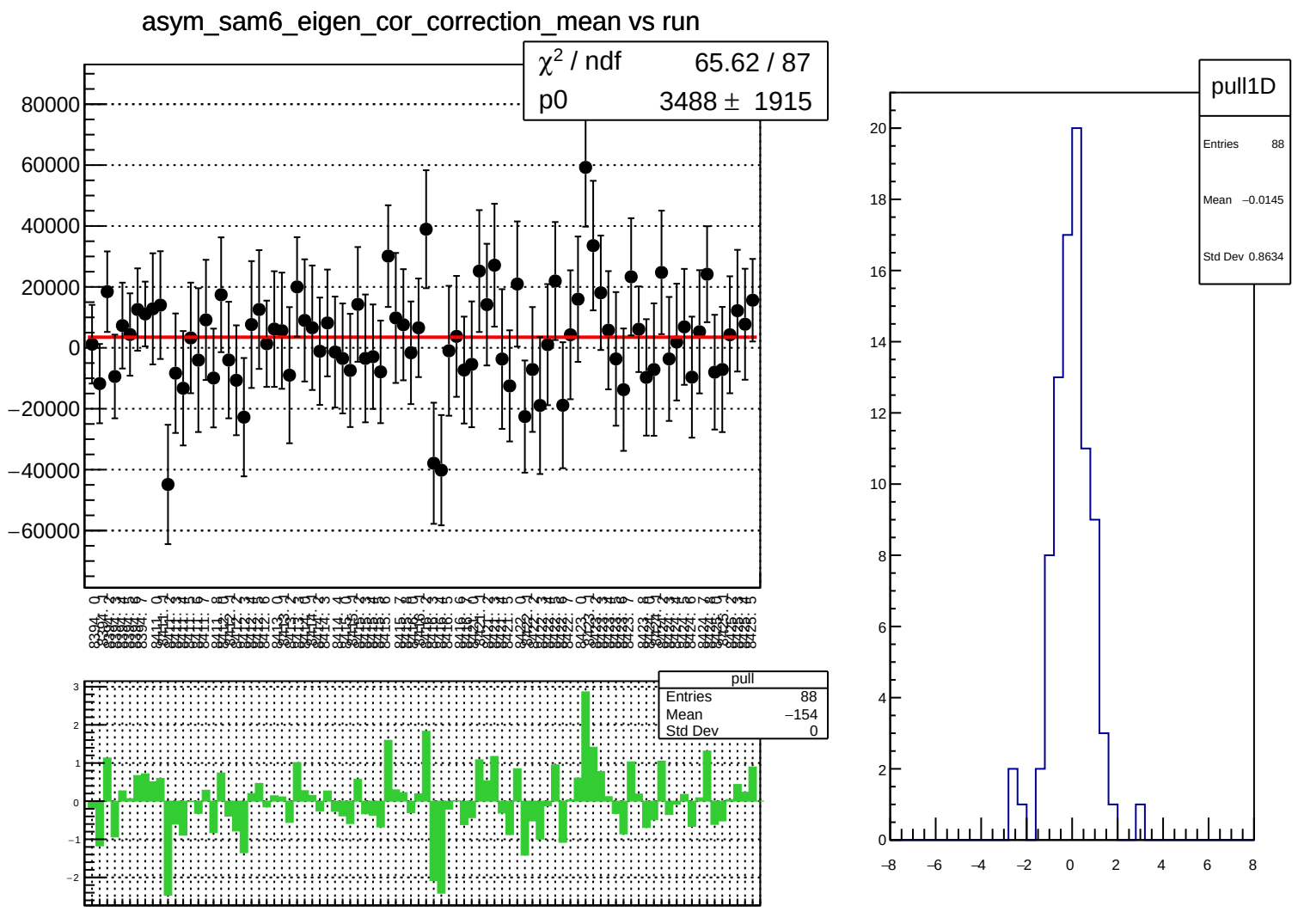

asym_sam6_cor_correction_mean vs run
χ² / ndf 65.62 / 87
p0 3488 ± 1915
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −154
Std Dev 0
3
2
1
0
−1
−2

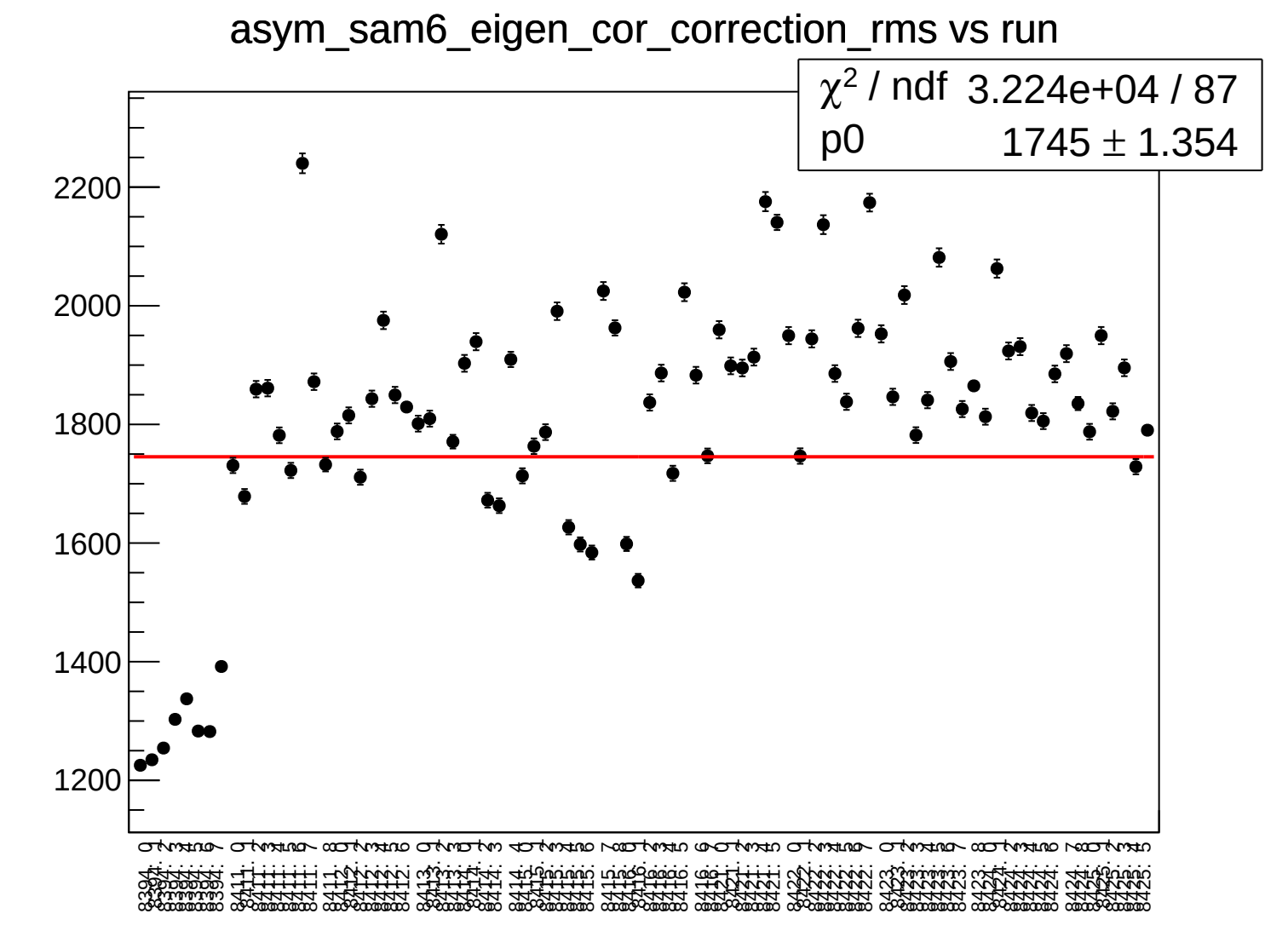

pull1D
Entries 88
Mean −0.0145
Std Dev 0.8634
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

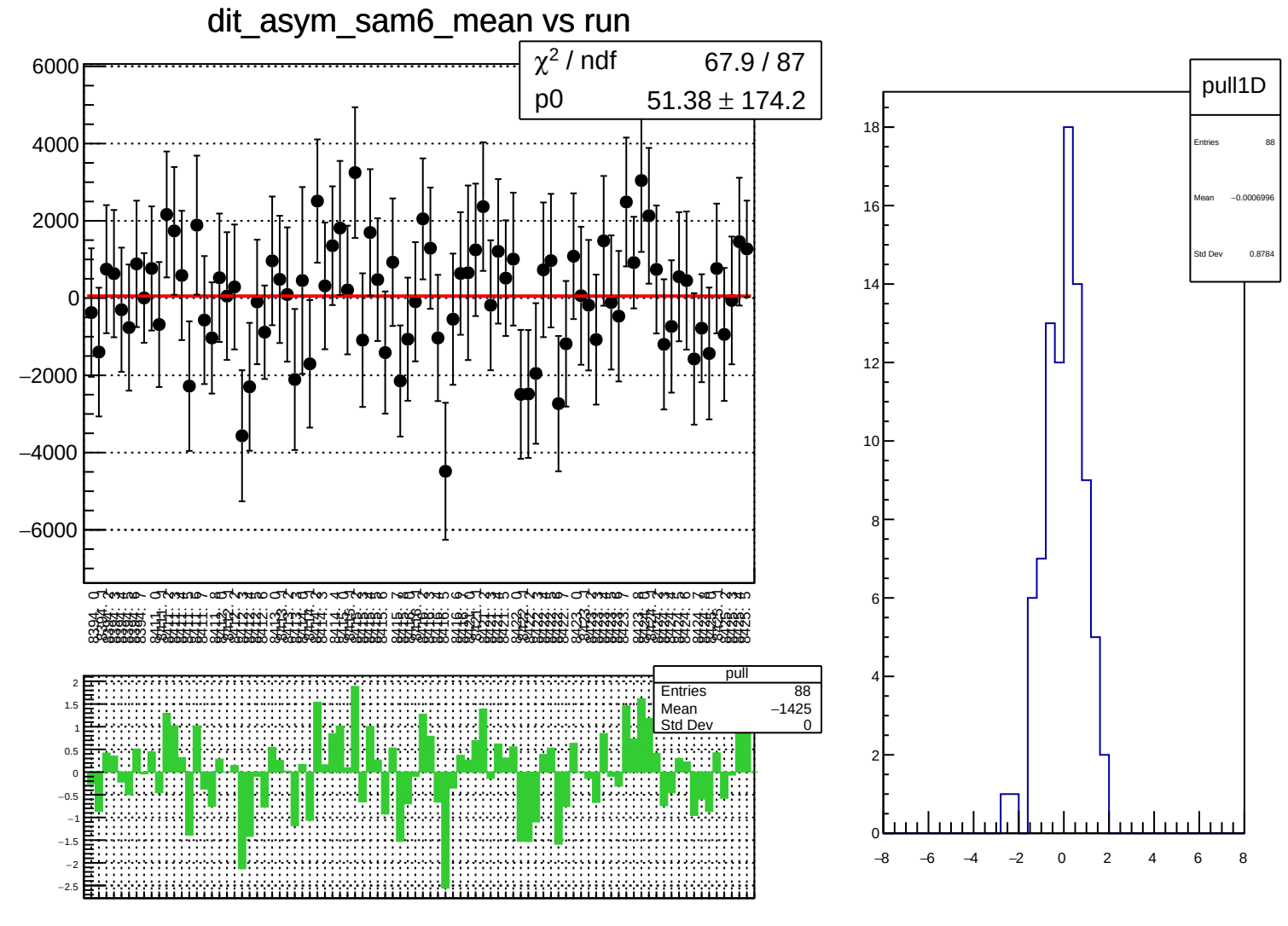

asym_sam6_cor_correction_rms vs run
χ² / ndf 3.224e+04 / 87
p0 1745 ± 1.354
2200
2000
1800
1600
1400
1200

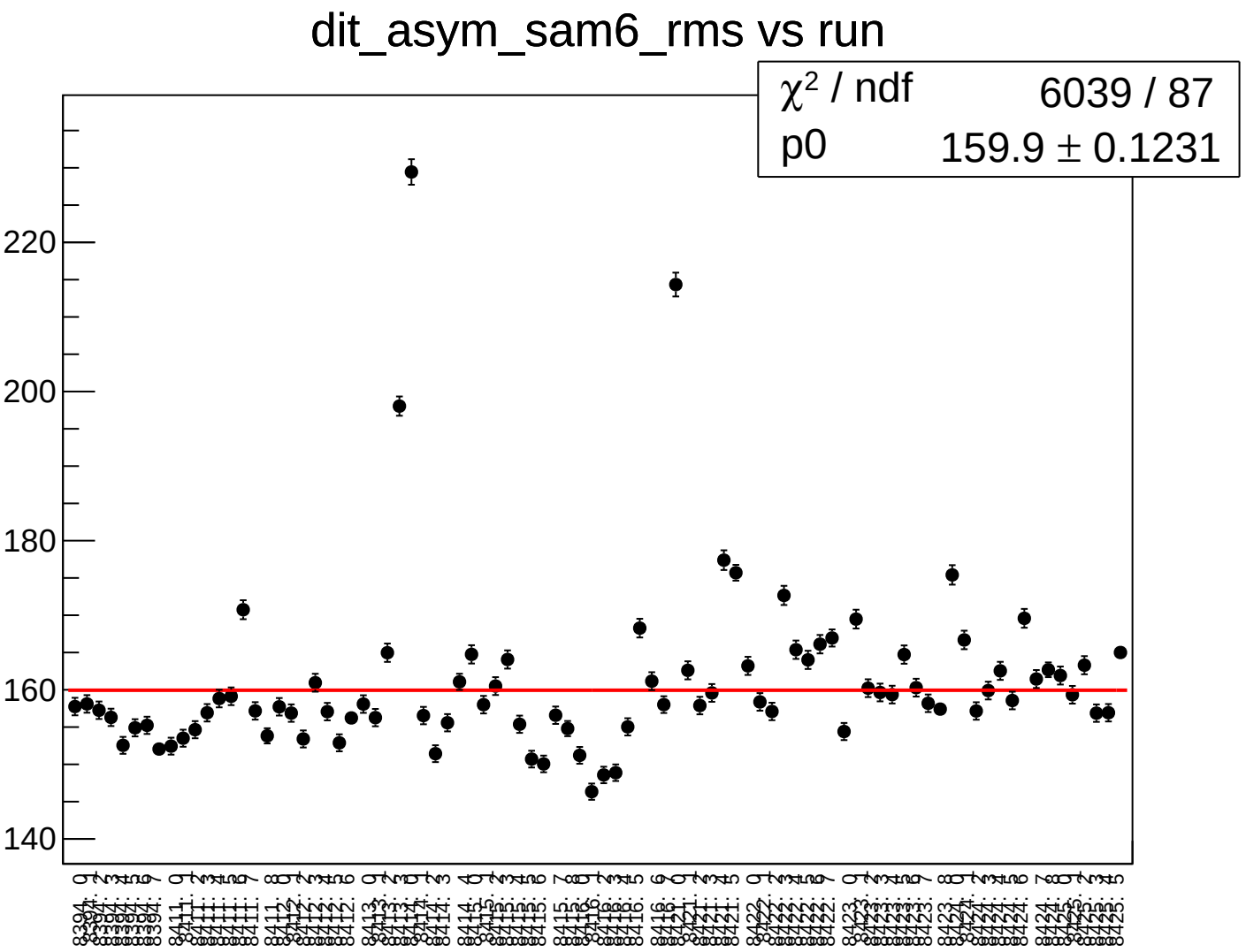

eigen_cor_asym_sam6_mean vs run
χ² / ndf 62.74 / 87
p0 324 ± 157.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −417
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 88
Mean 0.0021
Std Dev 0.8444
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

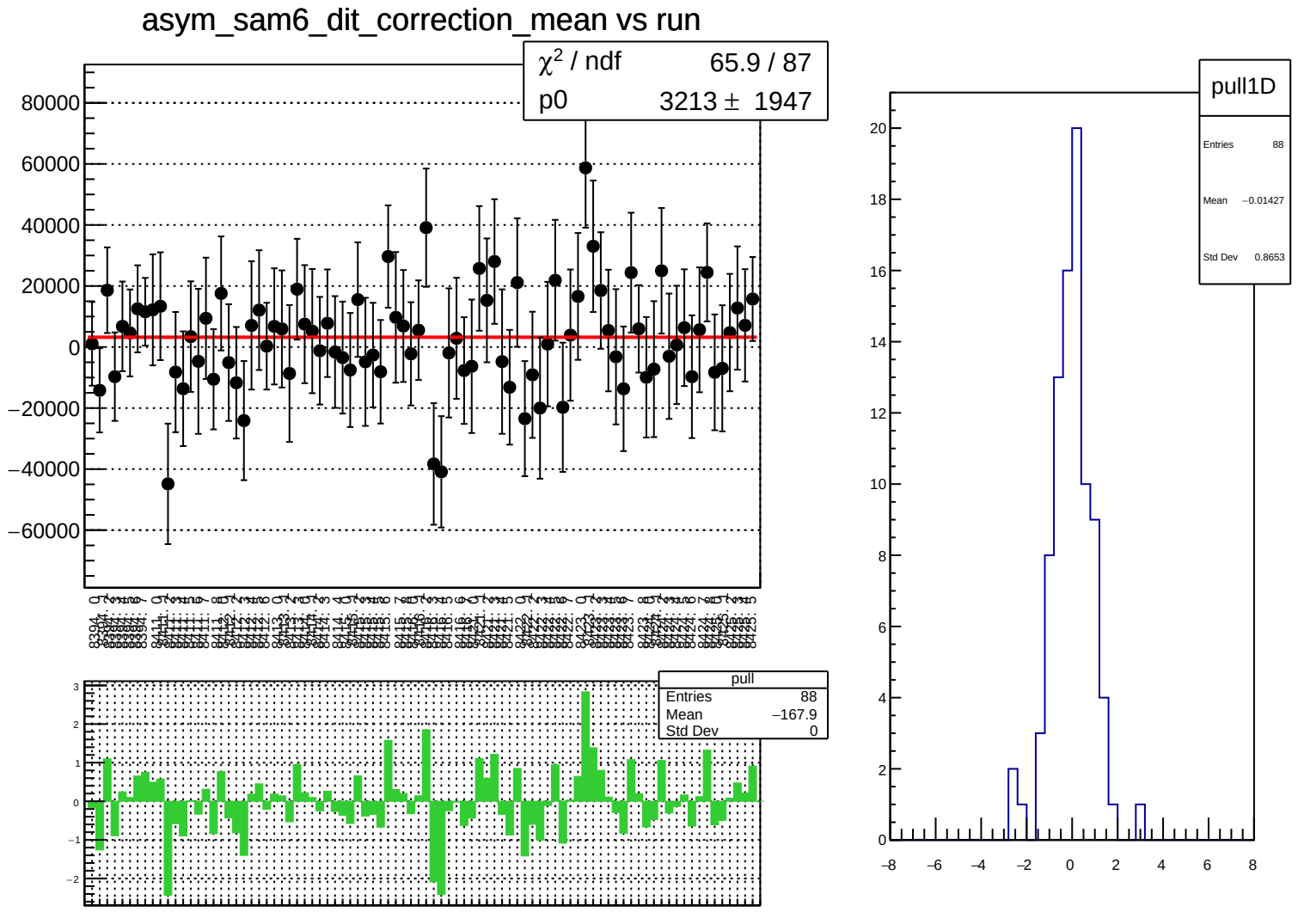

eigen_cor_asym_sam6_rms vs run
χ² / ndf 9521 / 87
p0 144.3 ± 0.1112
200
180
160
140
120

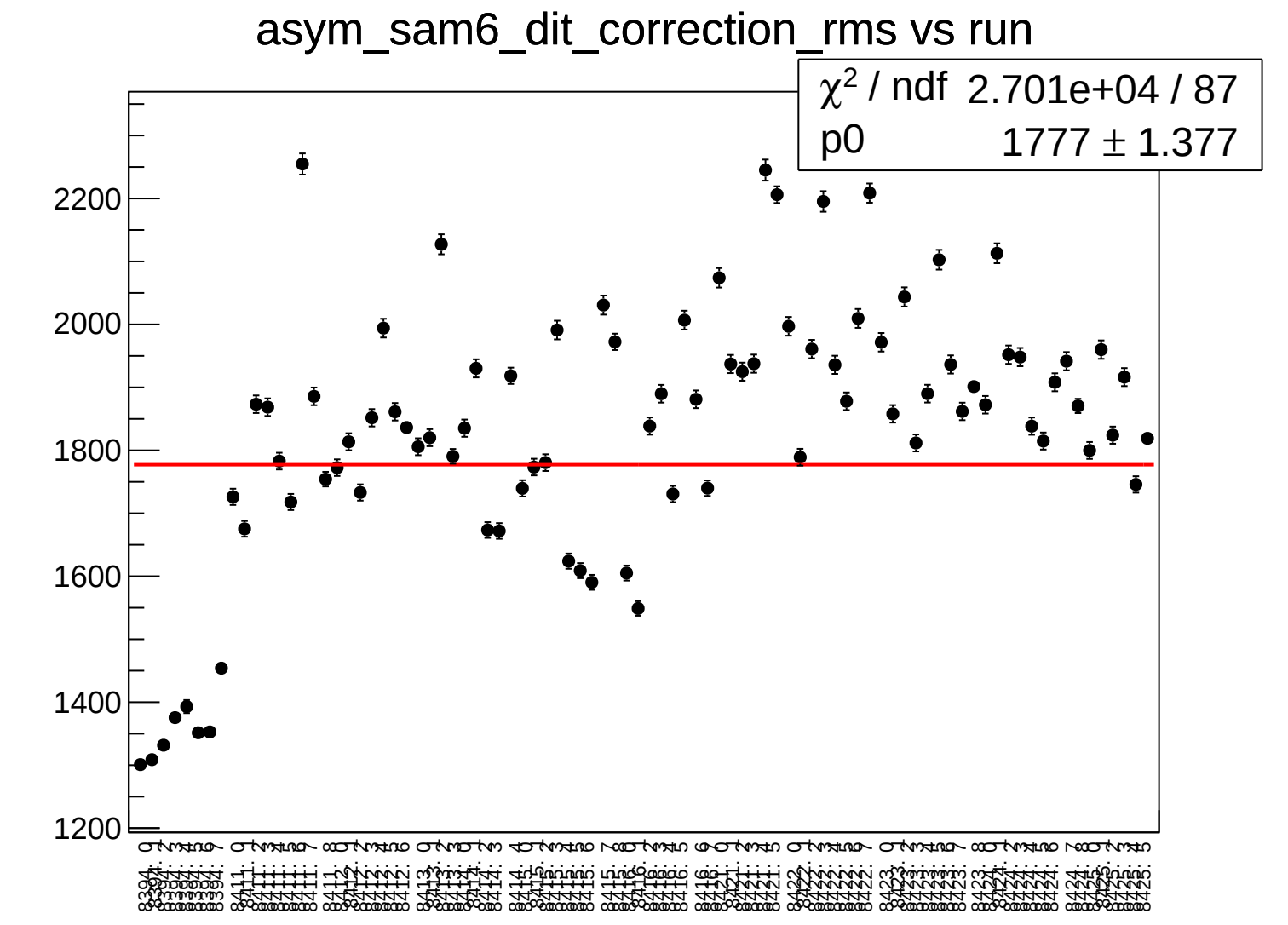

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 65.62 / 87
p0 3488 ± 1915
pull
Entries 88
Mean −154
Std Dev 0
pull1D
Entries 88
Mean −0.0145
Std Dev 0.8634

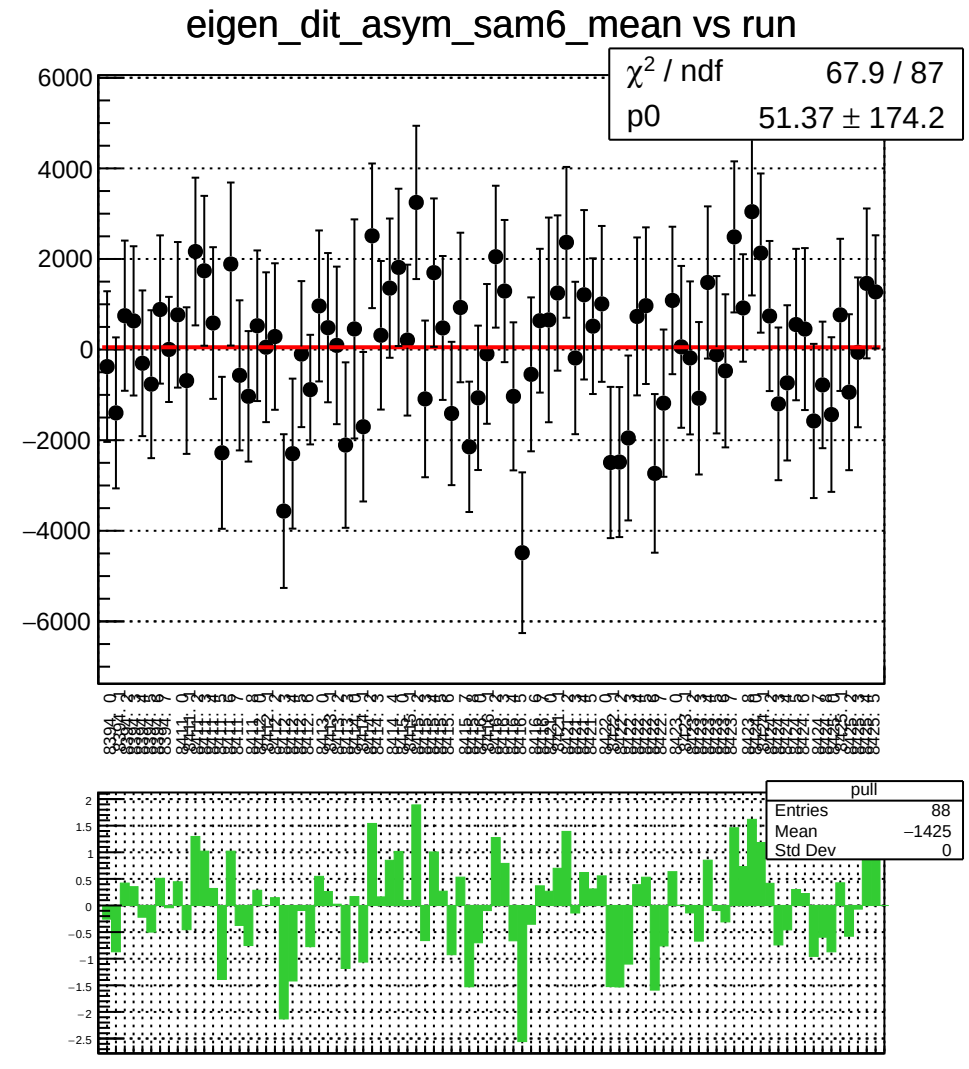

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 3.224e+04 / 87
p0 1745 ± 1.354
2200
2000
1800
1600
1400
1200

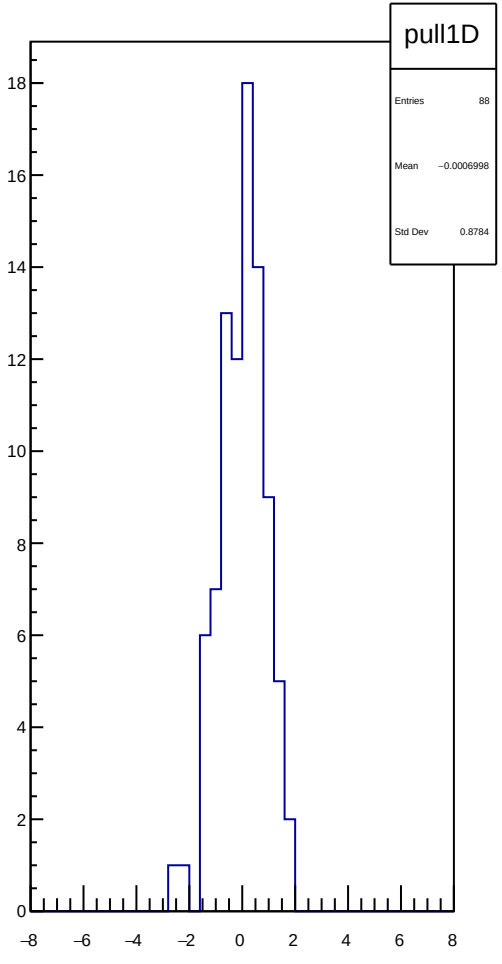

dit_asym_sam6_mean vs run
χ² / ndf 67.9 / 87
p0 51.38 ± 174.2
pull
Entries 88
Mean −1425
Std Dev 0
pull1D
Entries 88
Mean −0.0006996
Std Dev 0.8784

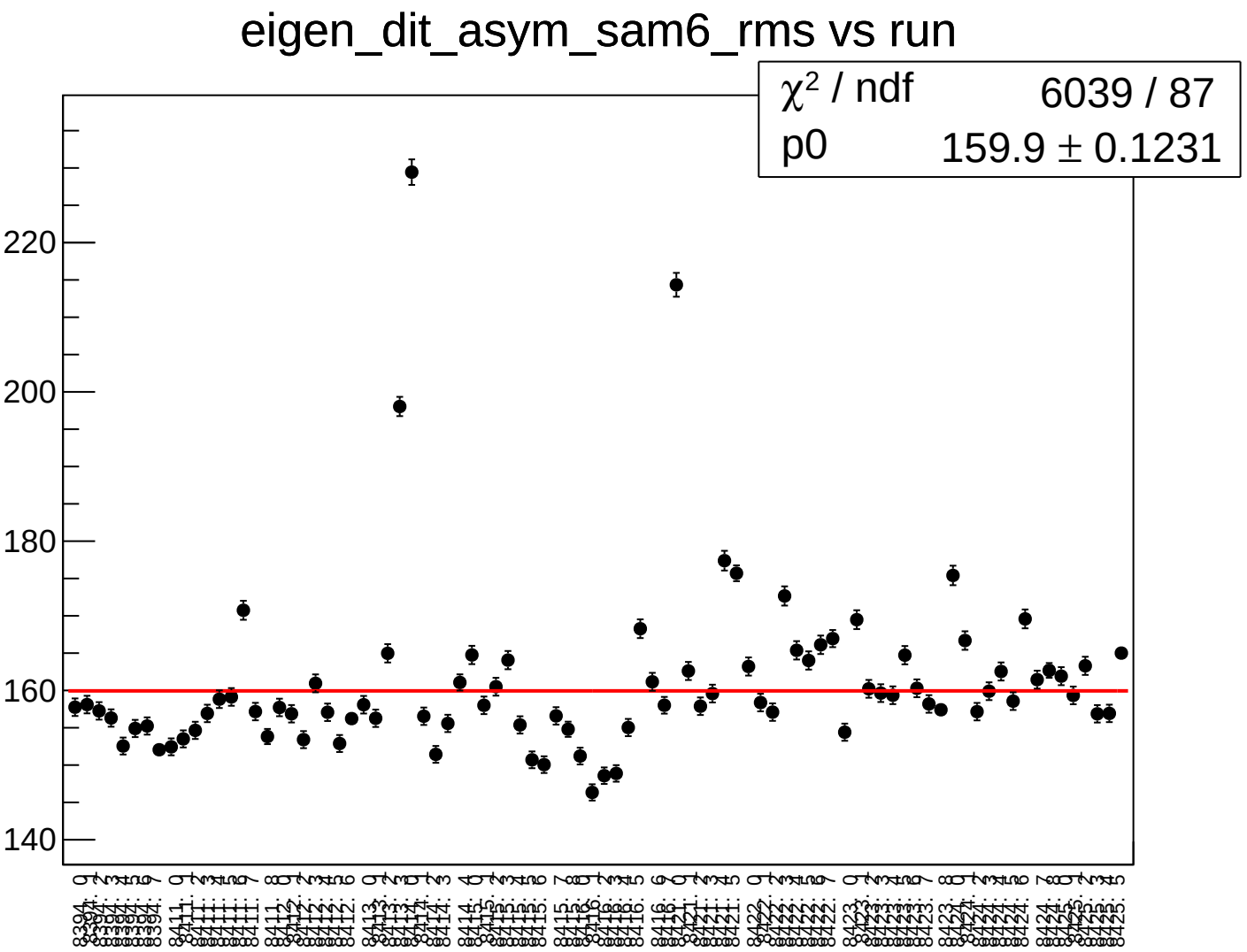

dit_asym_sam6_rms vs run
χ² / ndf 6039 / 87
p0 159.9 ± 0.1231
220
200
180
160
140

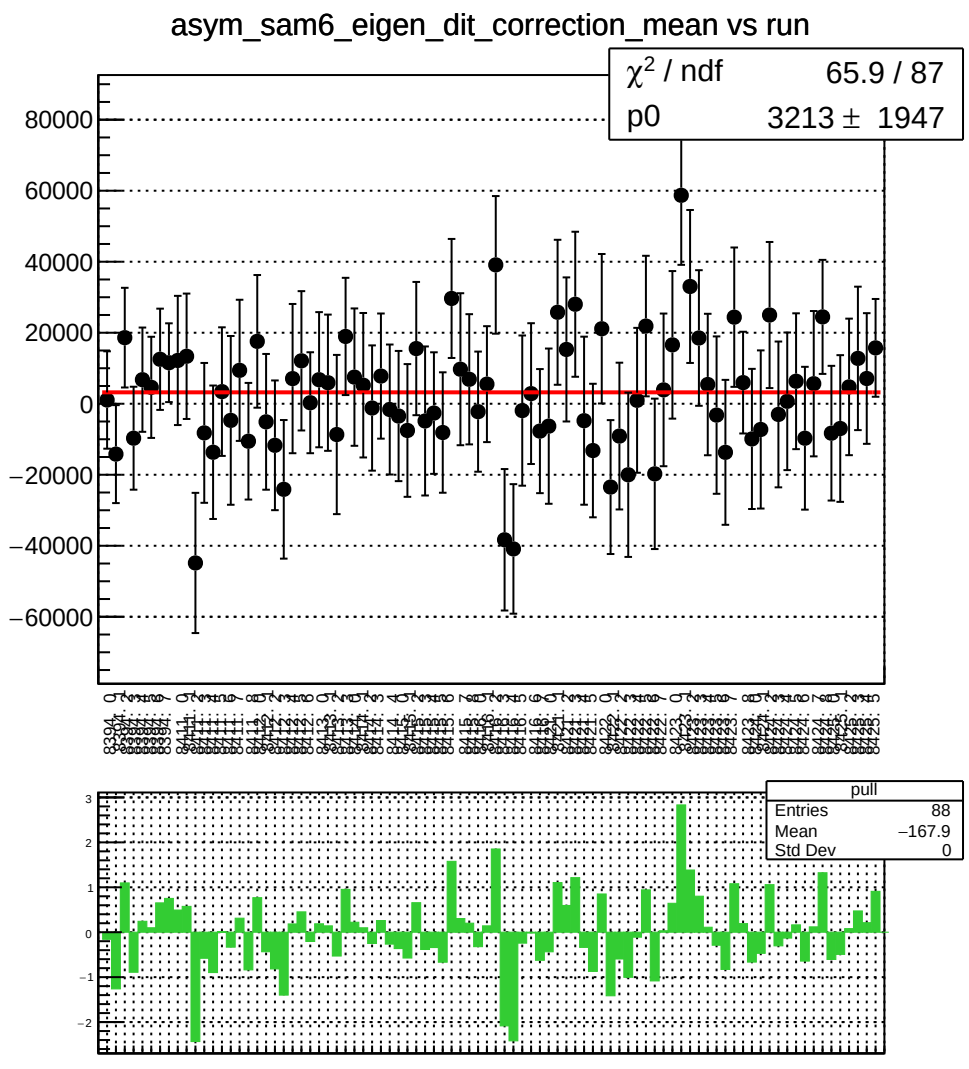

asym_sam6_dit_correction_mean vs run
χ² / ndf 65.9 / 87
p0 3213 ± 1947
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −167.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01427
Std Dev 0.8653
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

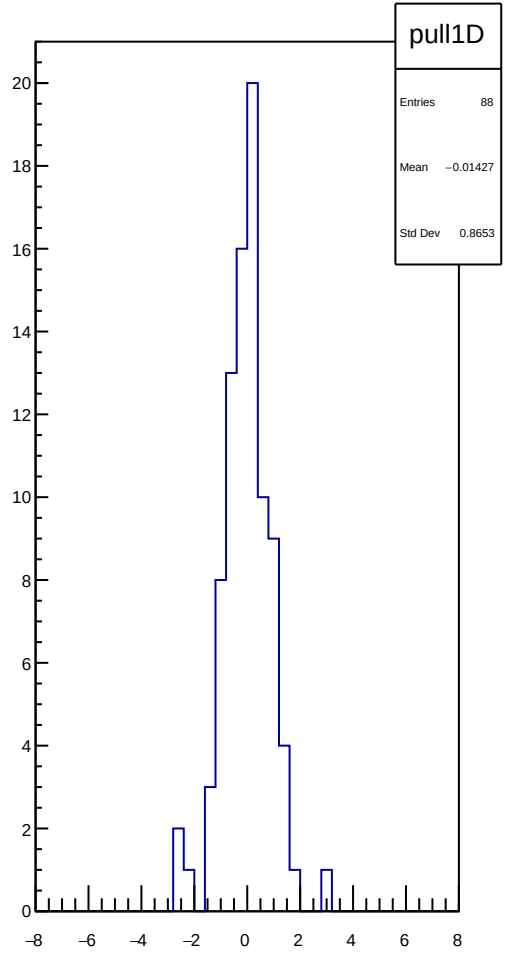

asym_sam6_dit_correction_rms vs run
χ² / ndf 2.701e+04 / 87
p0 1777 ± 1.377
2200
2000
1800
1600
1400
1200

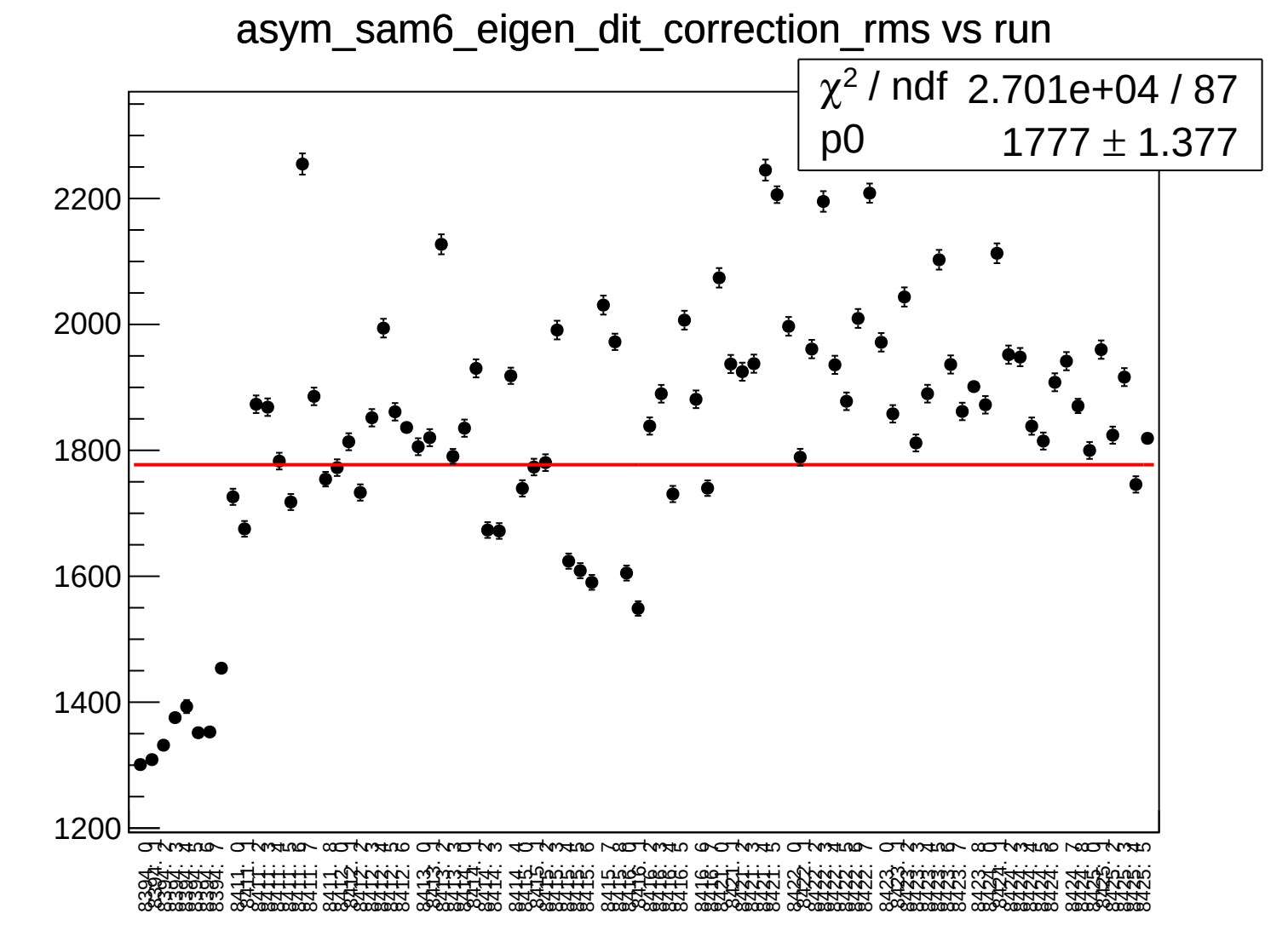

eigen_dit_asym_sam6_mean vs run
χ² / ndf 67.9 / 87
p0 51.37 ± 174.2
pull
Entries 88
Mean −1425
Std Dev 0

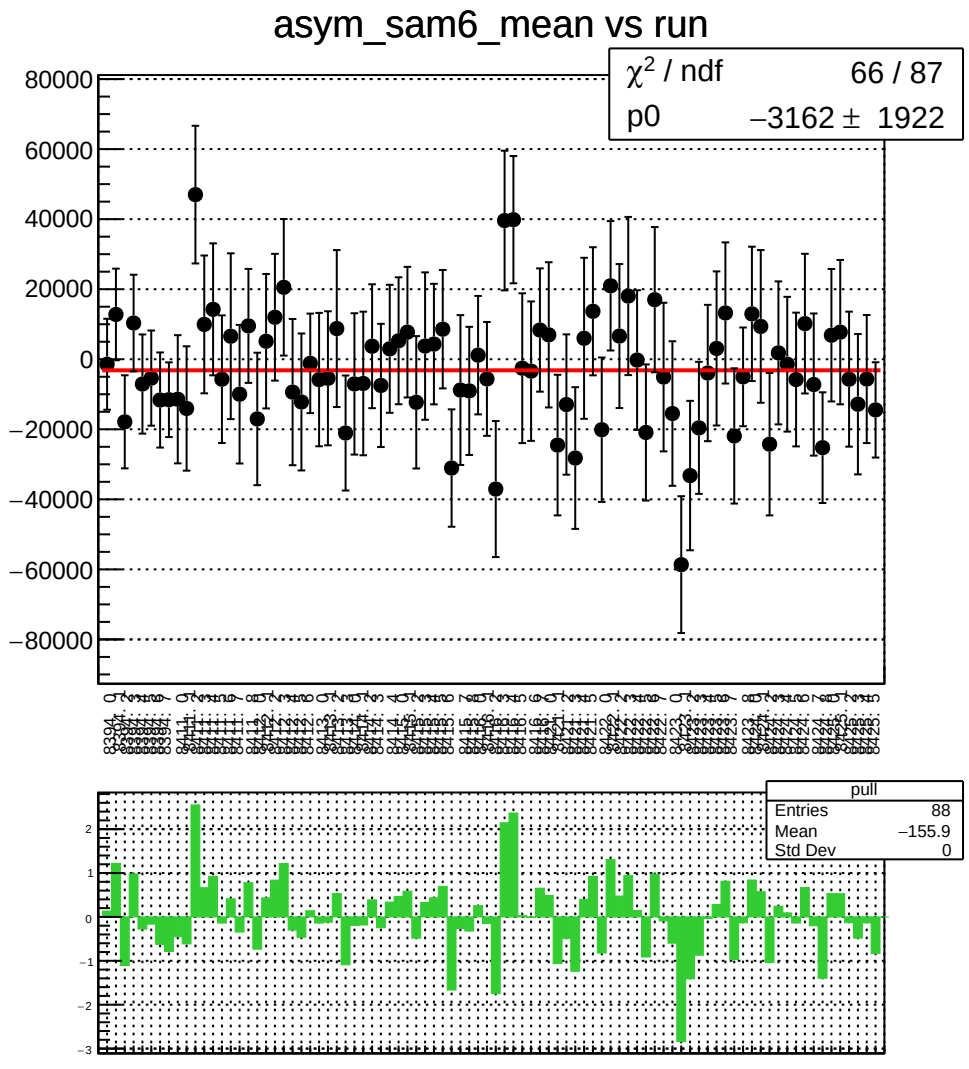

pull1D
Entries 88
Mean −0.0006998
Std Dev 0.8784

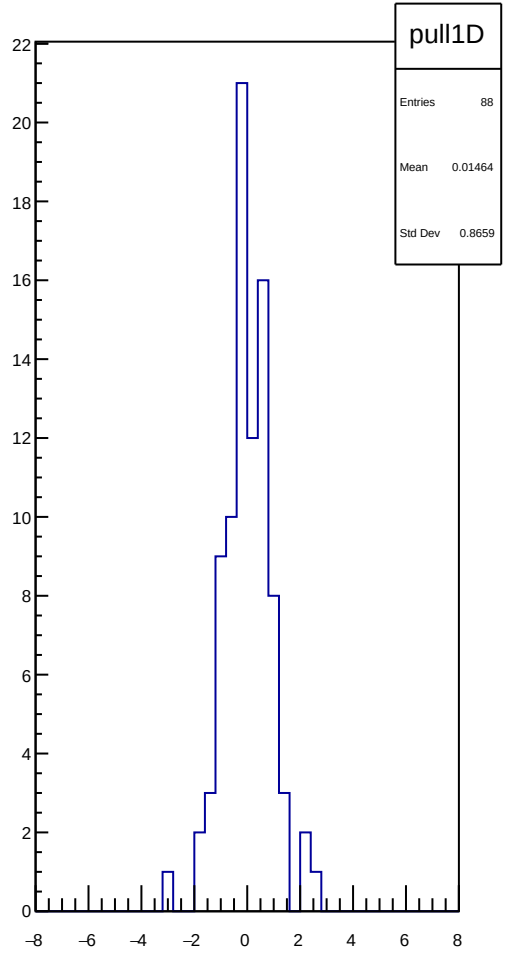

eigen_dit_asym_sam6_rms vs run
χ² / ndf 6039 / 87
p0 159.9 ± 0.1231
220
200
180
160
140

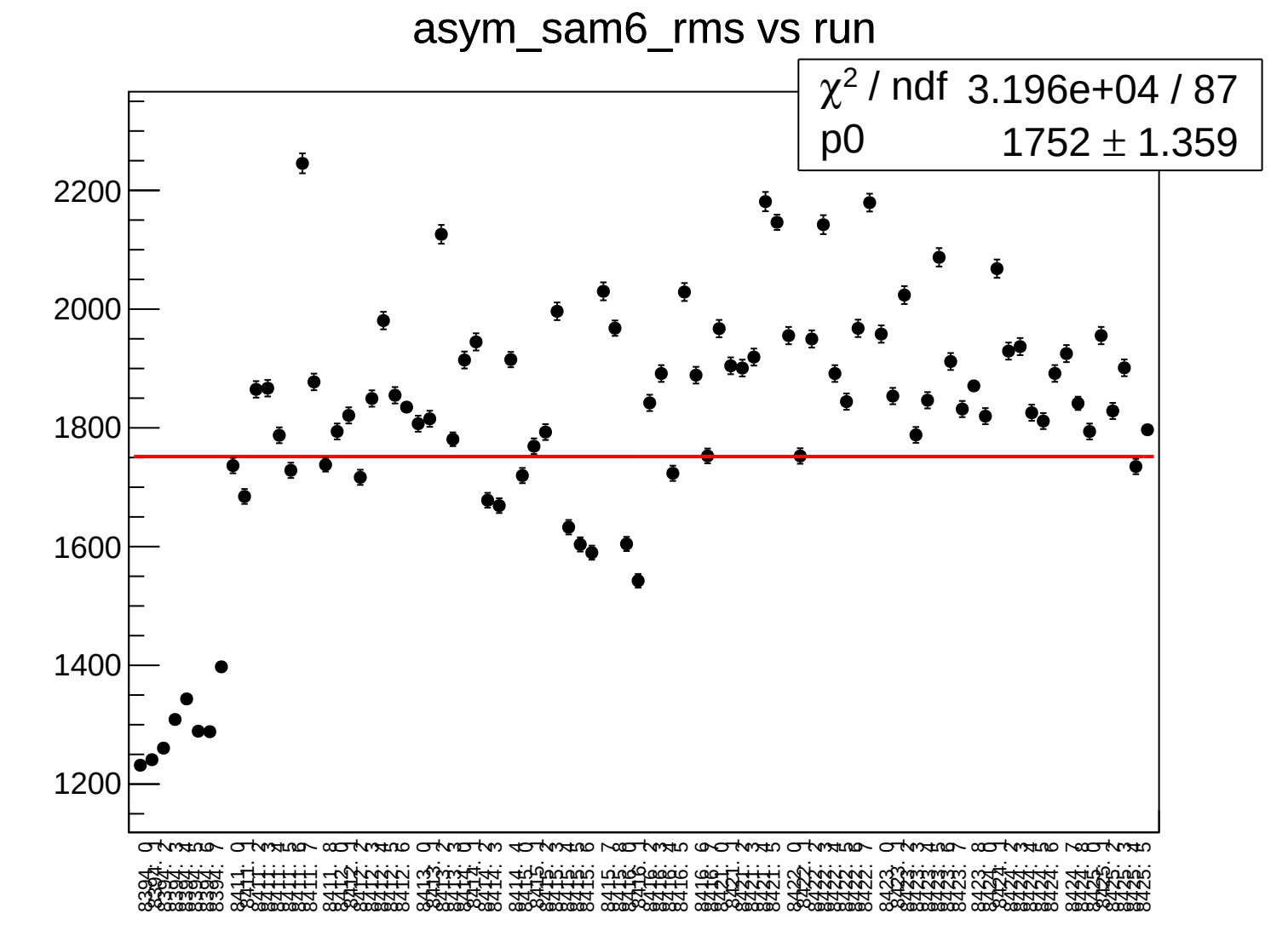

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 65.9 / 87
p0 3213 ± 1947
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −167.9
Std Dev 0
3
2
1
0
−1
−2

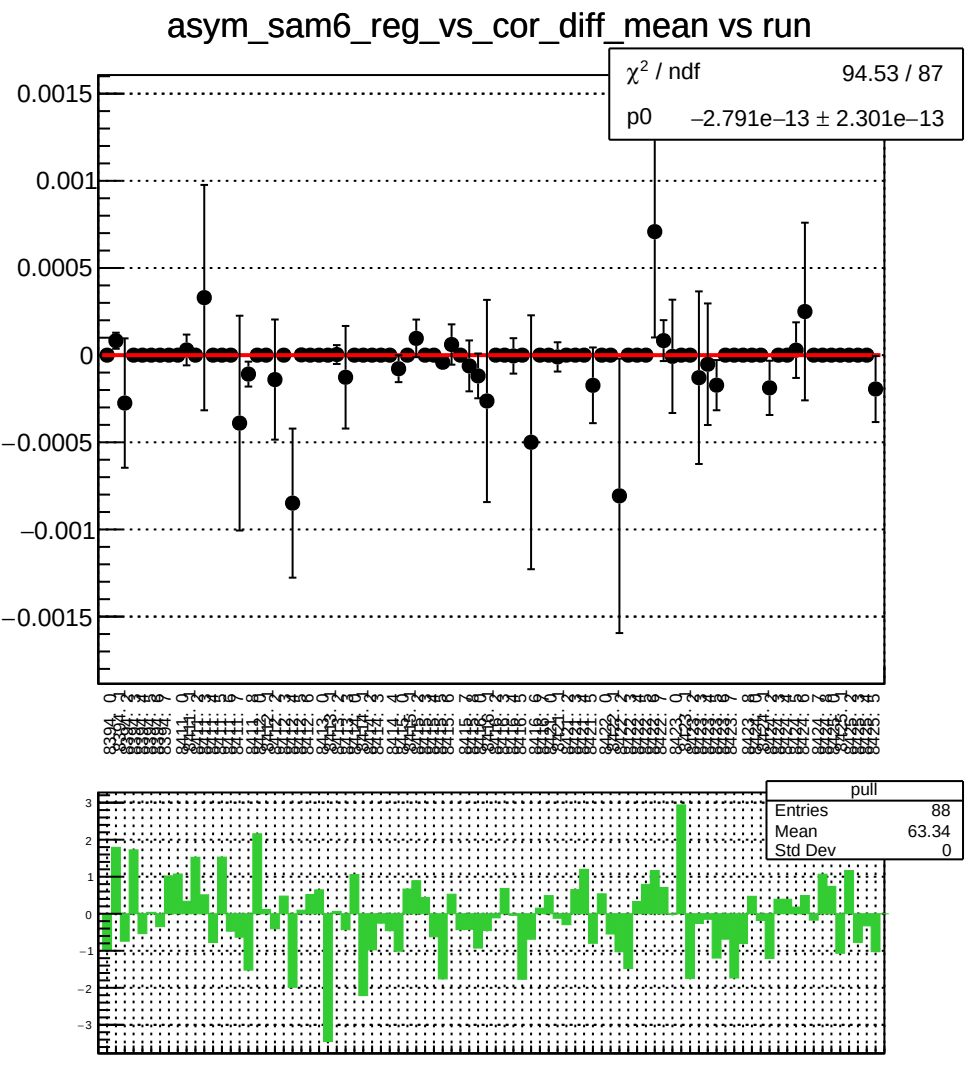

pull1D
Entries 88
Mean −0.01427
Std Dev 0.8653
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

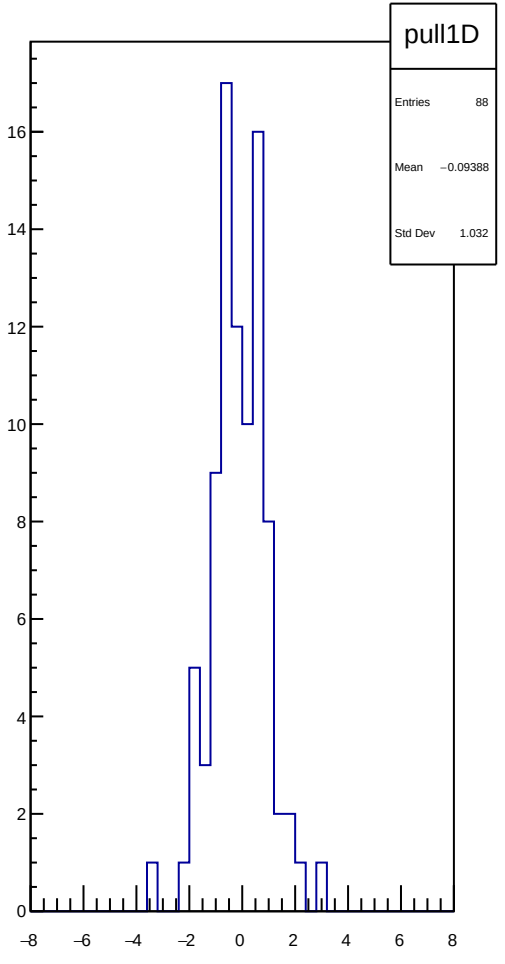

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 2.701e+04 / 87
p0 1777 ± 1.377
2200
2000
1800
1600
1400
1200

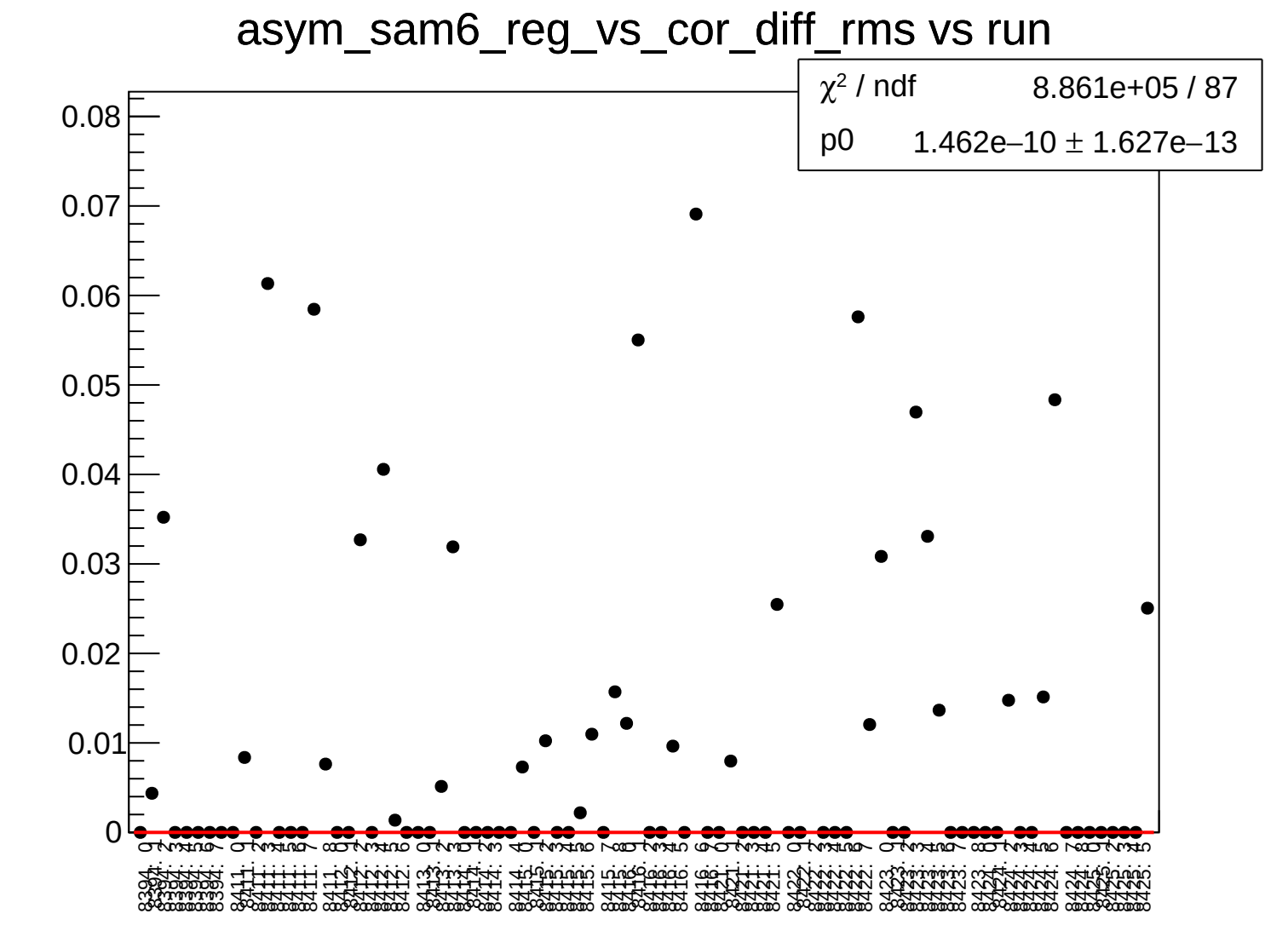

asym_sam6_mean vs run
χ² / ndf 66 / 87
p0 −3162 ± 1922
pull
Entries 88
Mean −155.9
Std Dev 0

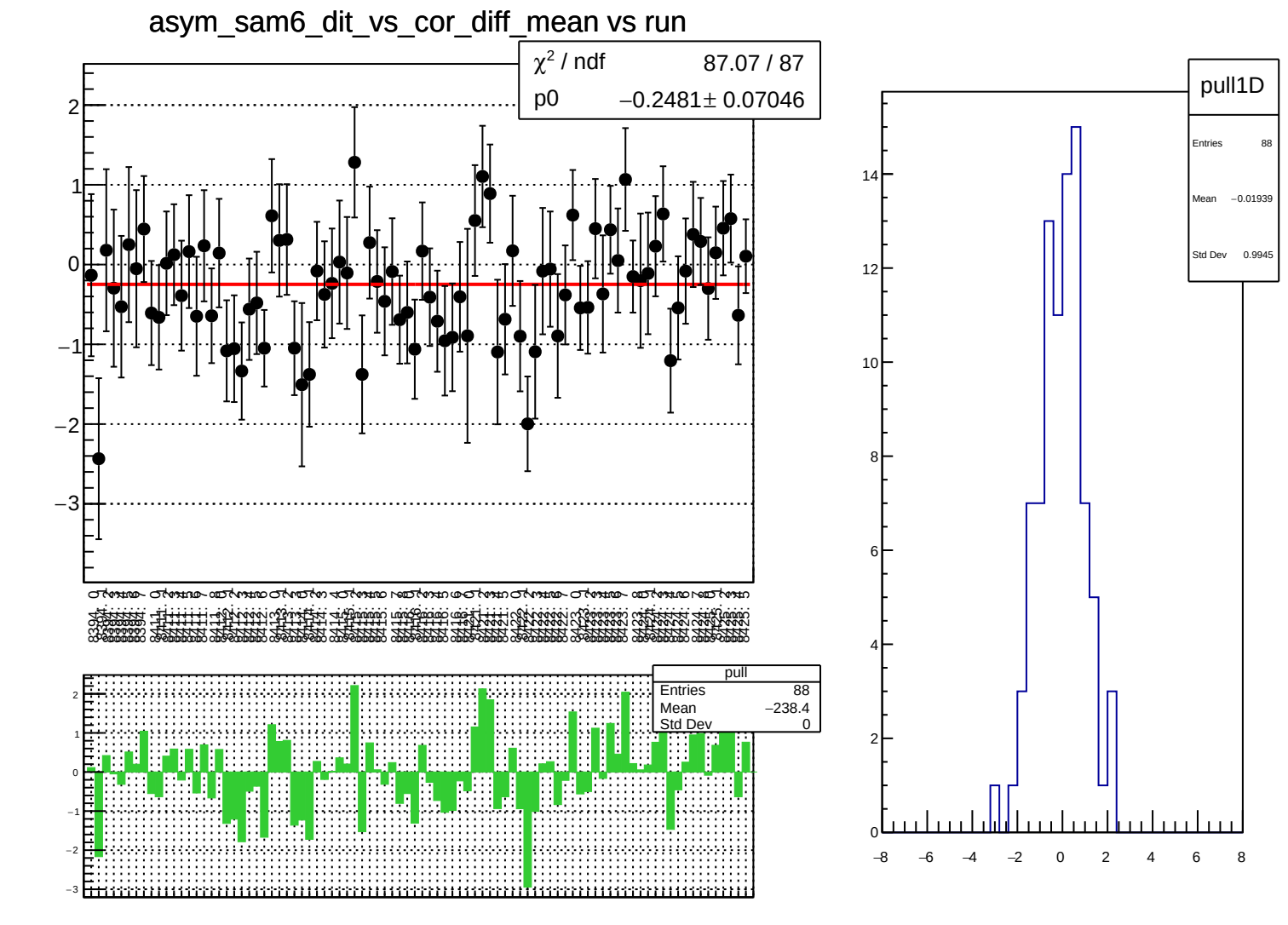

pull1D
Entries 88
Mean 0.01464
Std Dev 0.8659

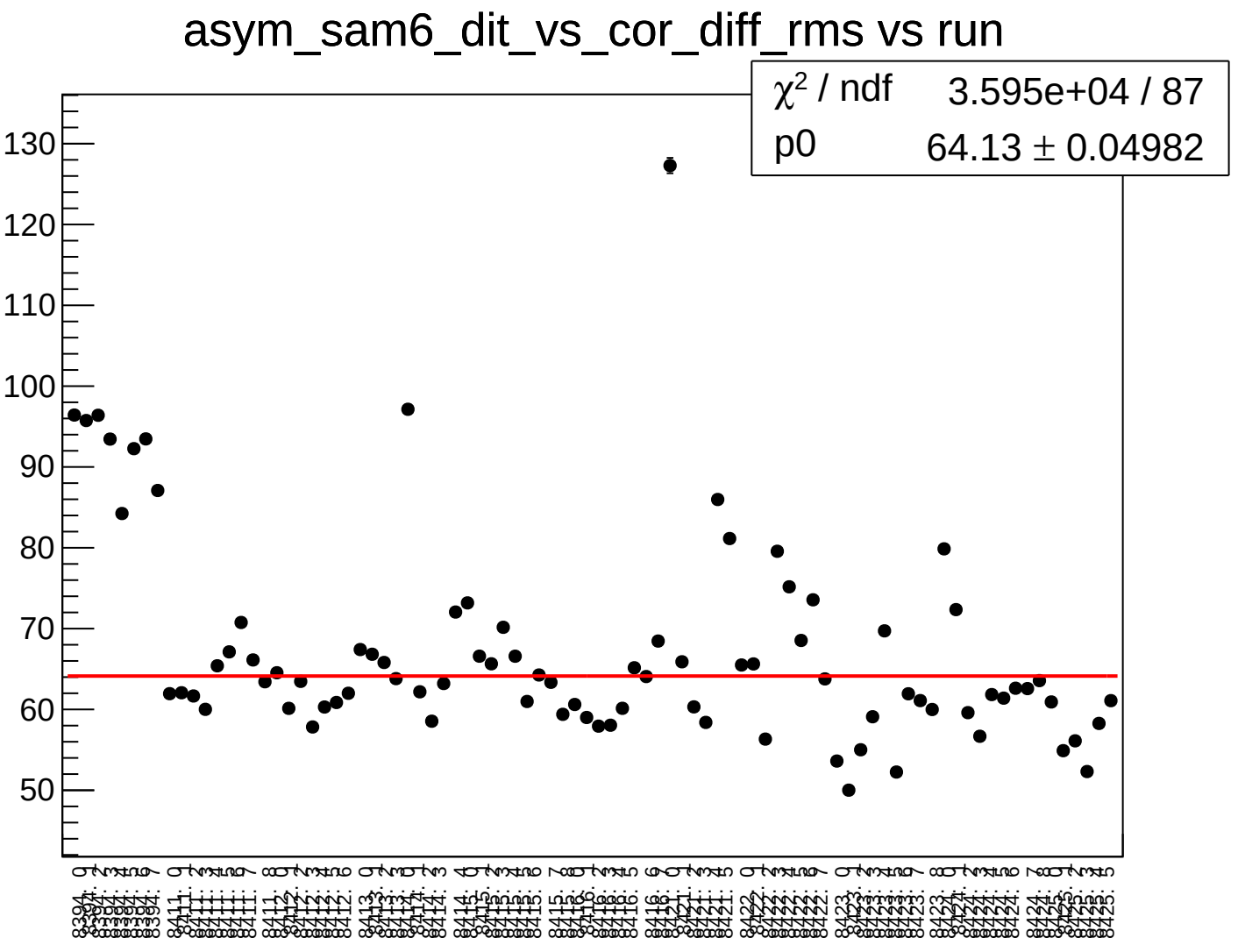

asym_sam6_rms vs run
χ² / ndf 3.196e+04 / 87
p0 1752 ± 1.359
2200
2000
1800
1600
1400
1200

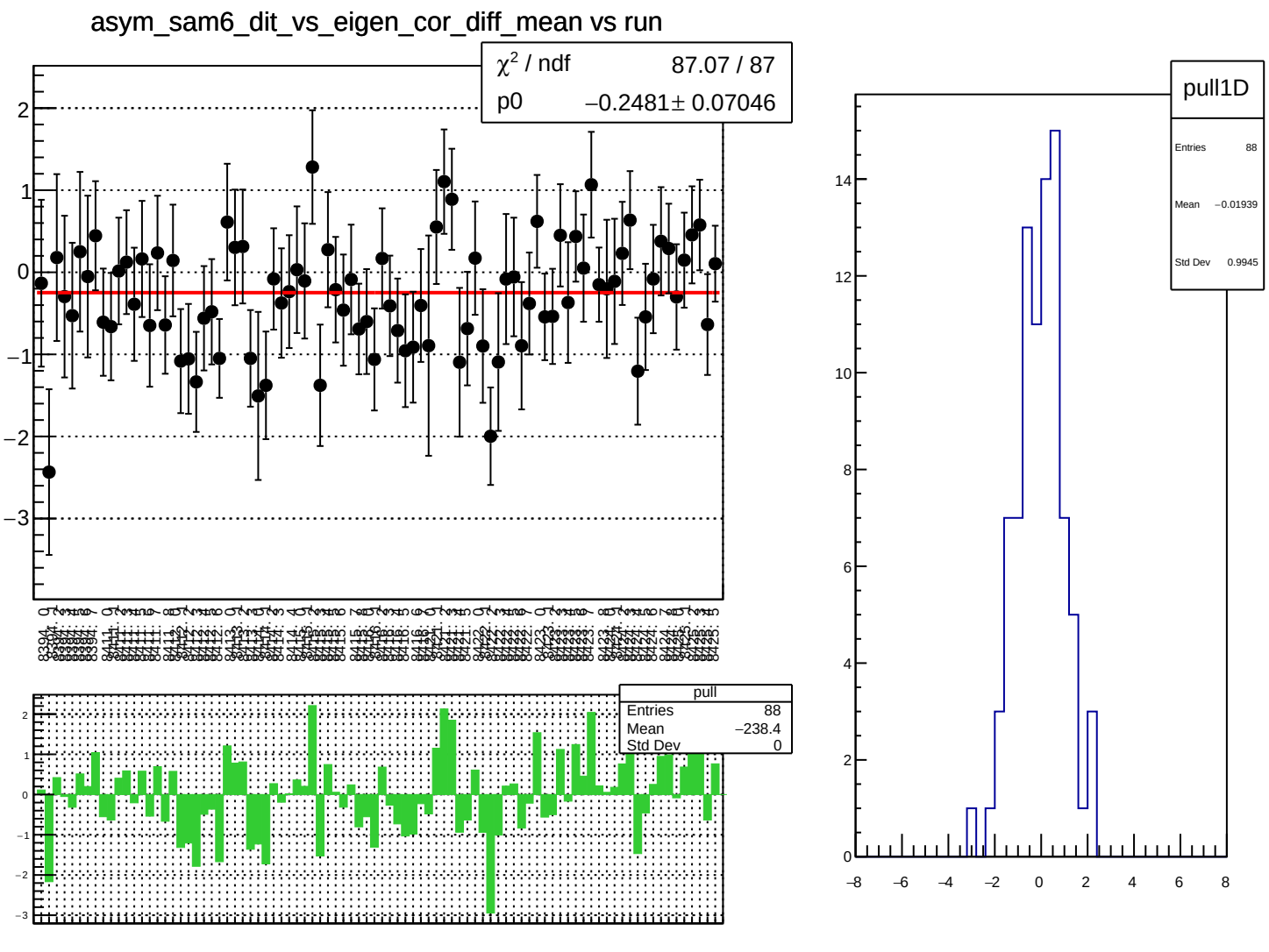

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 94.53 / 87
p0 −2.791e−13 ± 2.301e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 88
Mean 63.34
Std Dev 0
3
2
1
0
−1
−2
−3

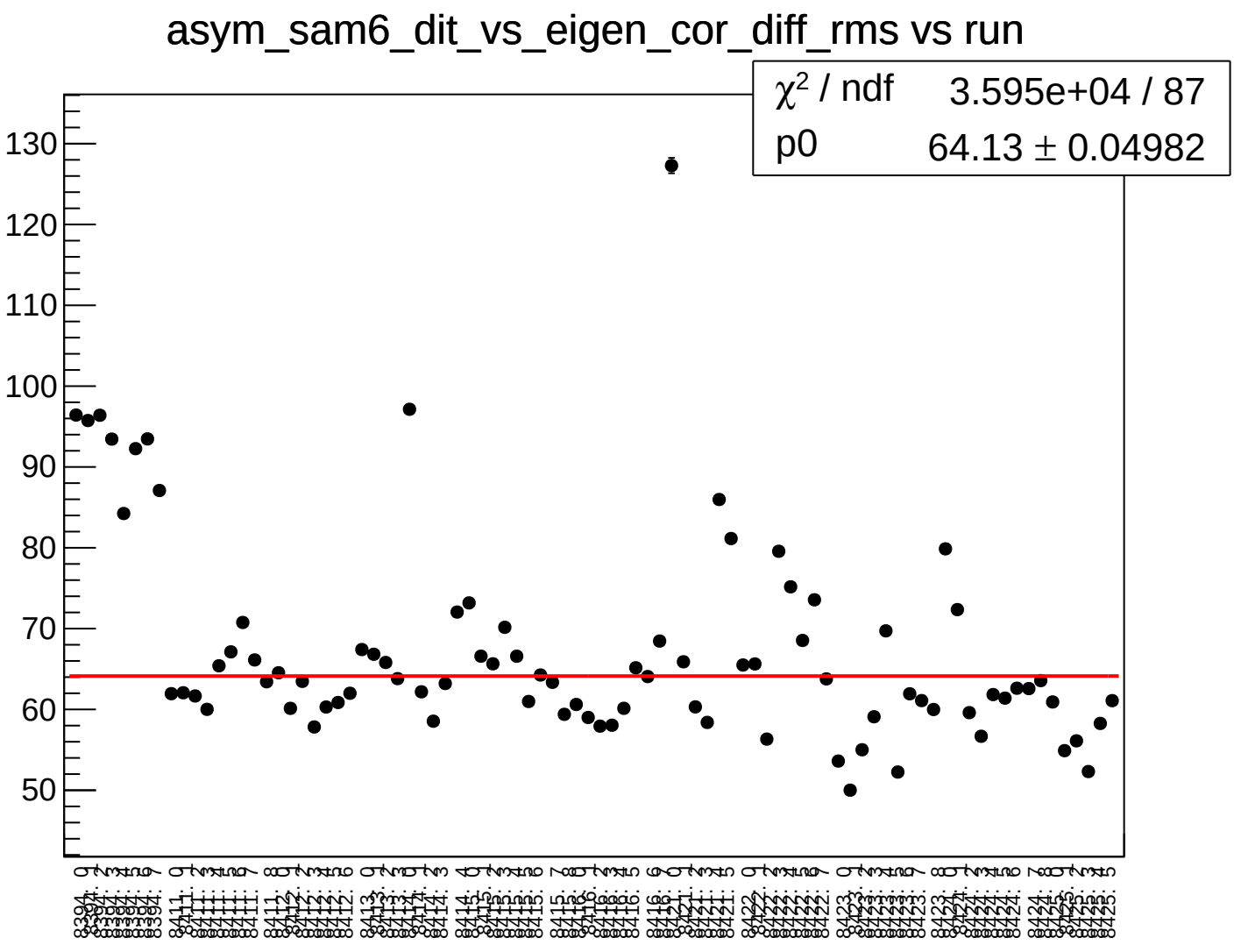

pull1D
Entries 88
Mean −0.09388
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

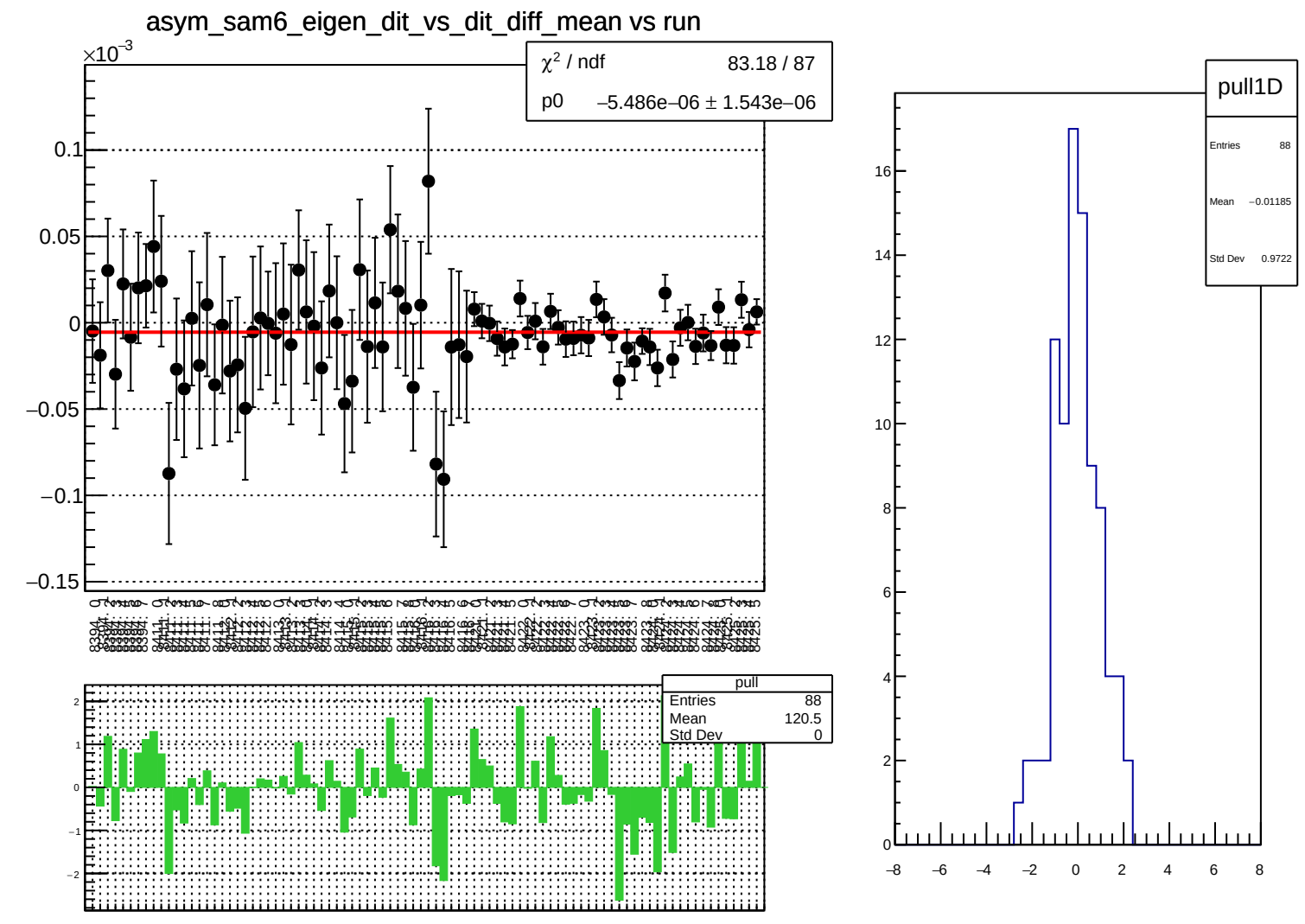

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 8.861e+05 / 87
p0 1.462e−10 ± 1.627e−13
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

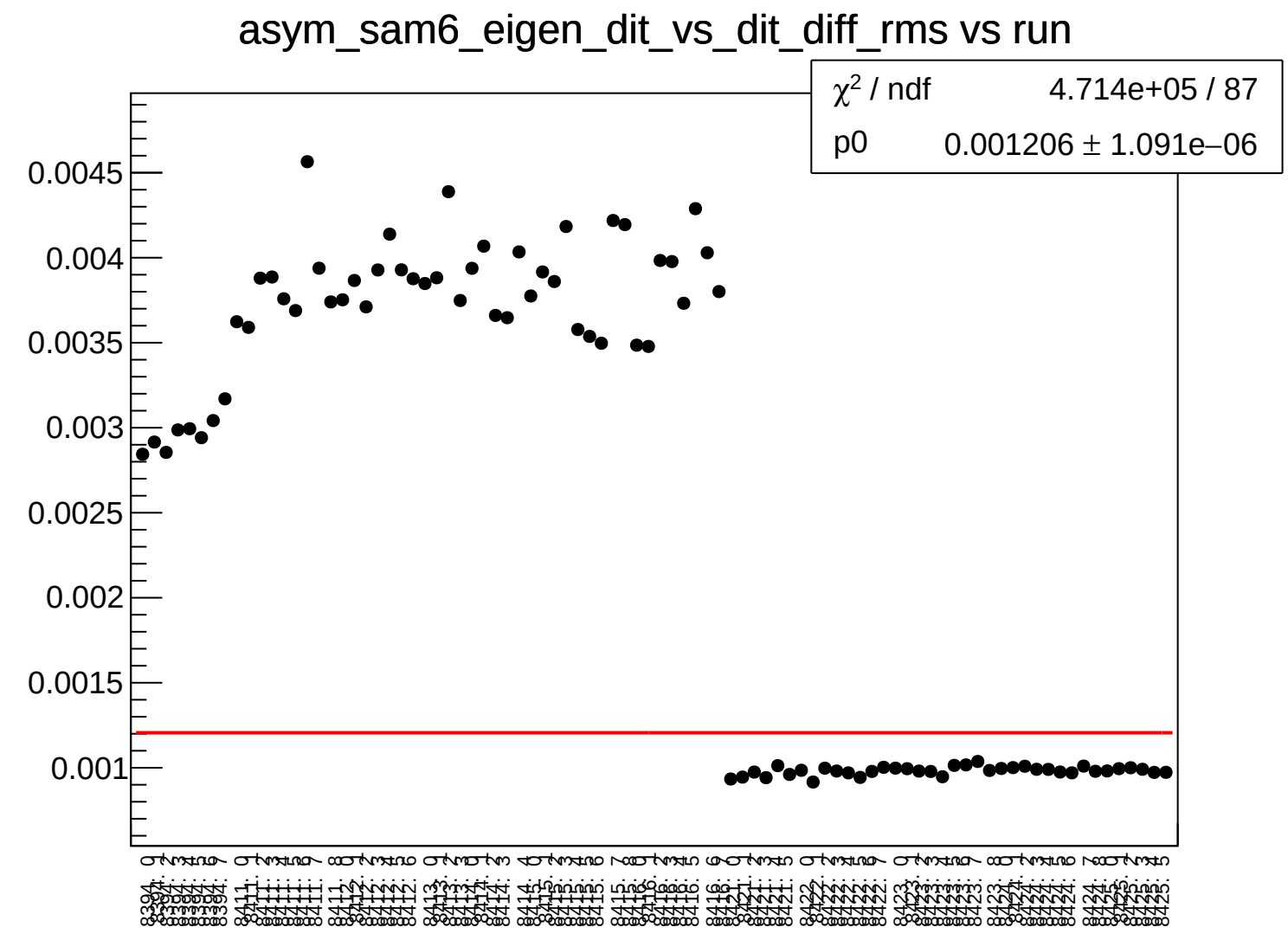

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 87.07 / 87
p0 −0.2481± 0.07046
pull
Entries 88
Mean −238.4
Std Dev 0
pull1D
Entries 88
Mean −0.01939
Std Dev 0.9945

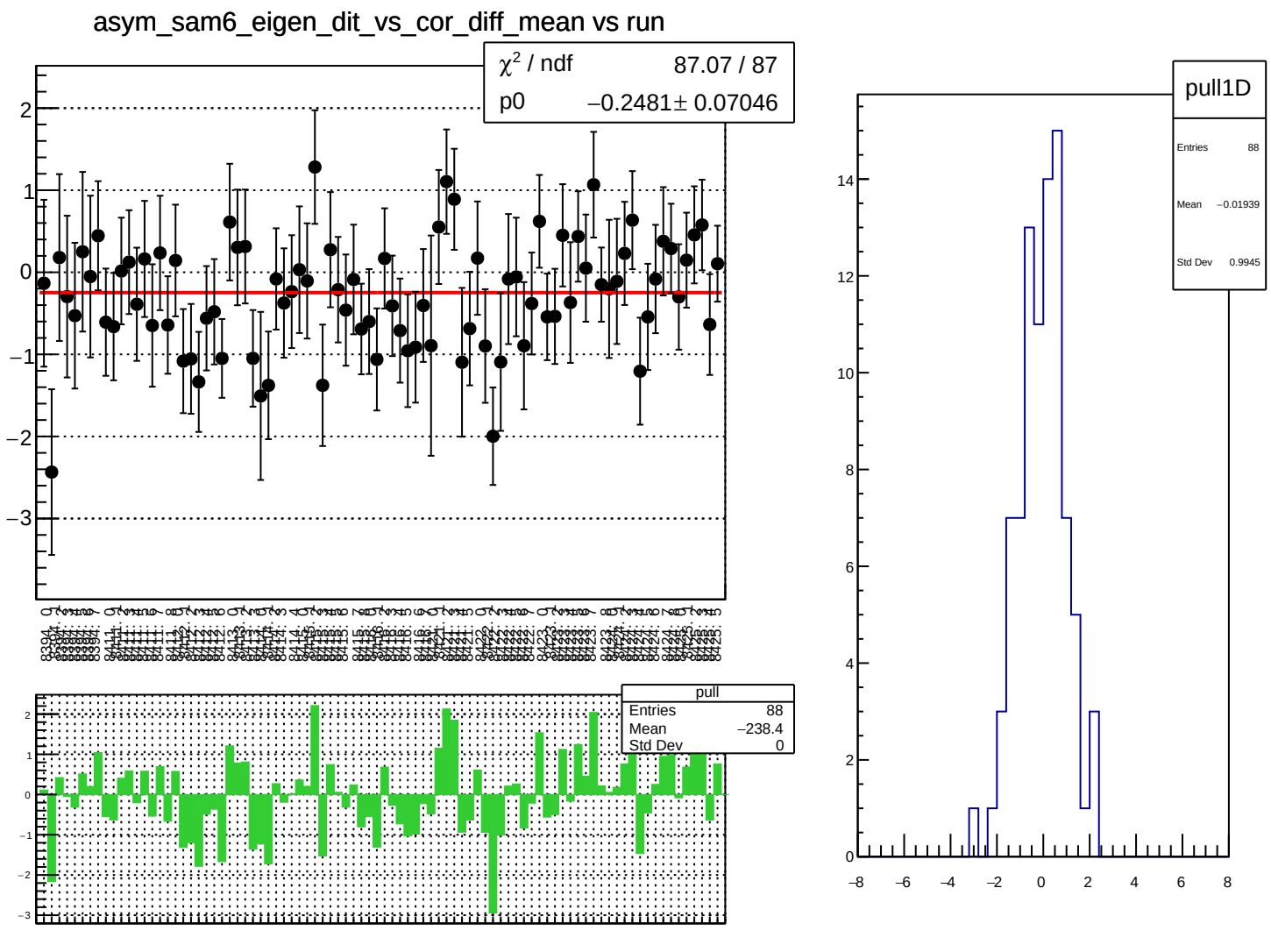

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 3.595e+04 / 87
p0 64.13 ± 0.04982
130
120
110
100
90
80
70
60
50

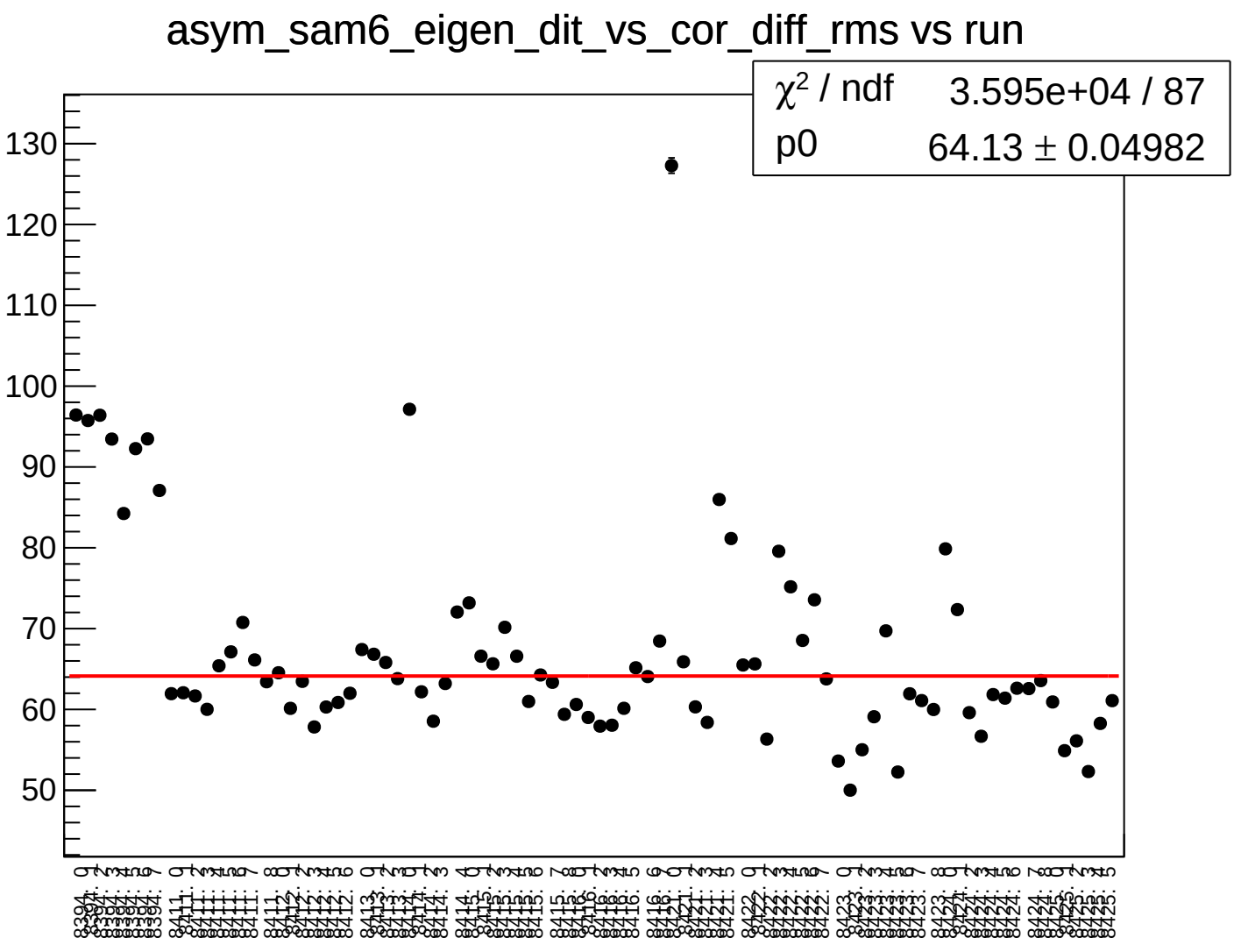

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.07 / 87
p0 −0.2481± 0.07046
pull
Entries 88
Mean −238.4
Std Dev 0
pull1D
Entries 88
Mean −0.01939
Std Dev 0.9945

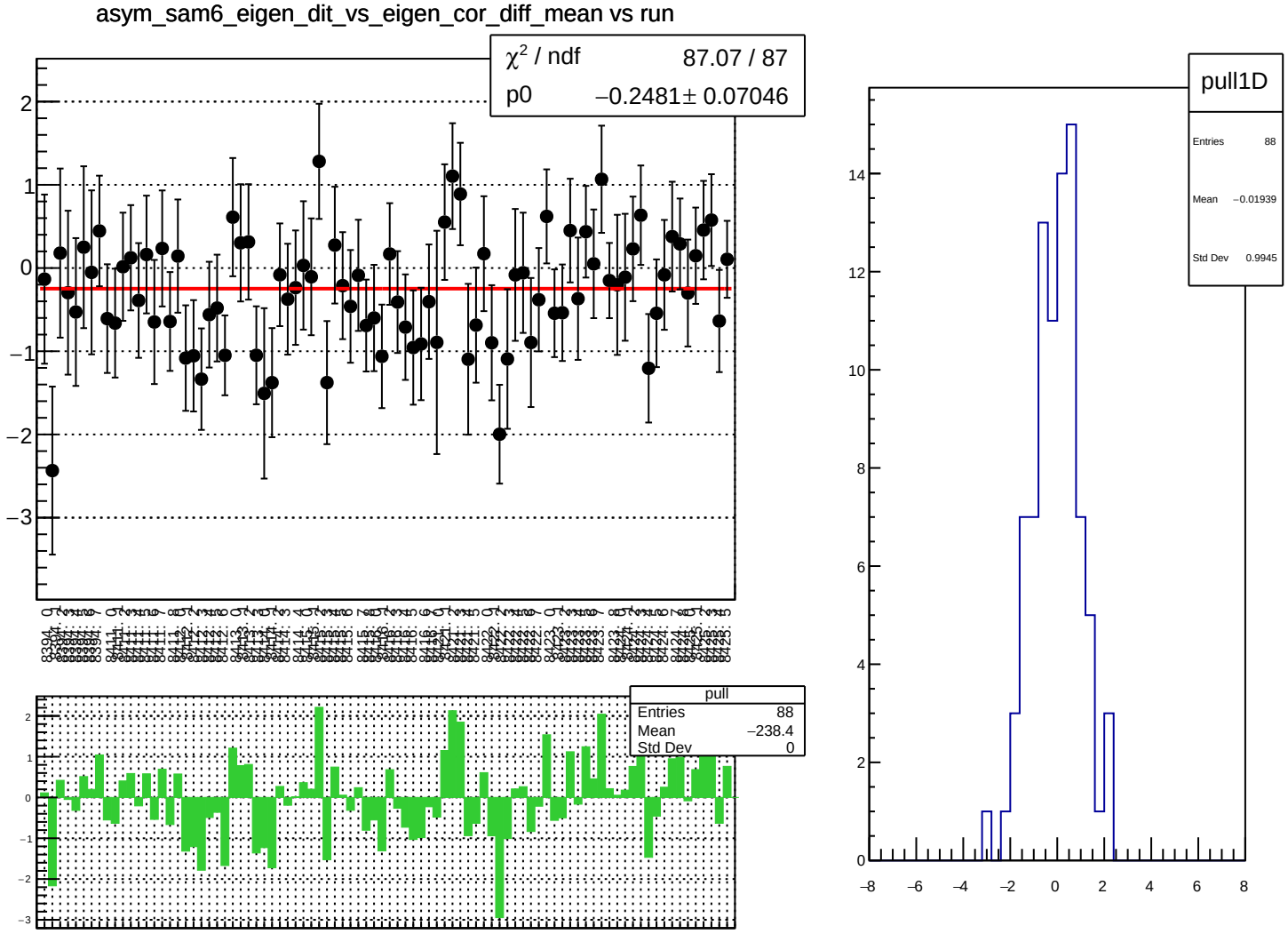

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.595e+04 / 87
p0 64.13 ± 0.04982
130
120
110
100
90
80
70
60
50

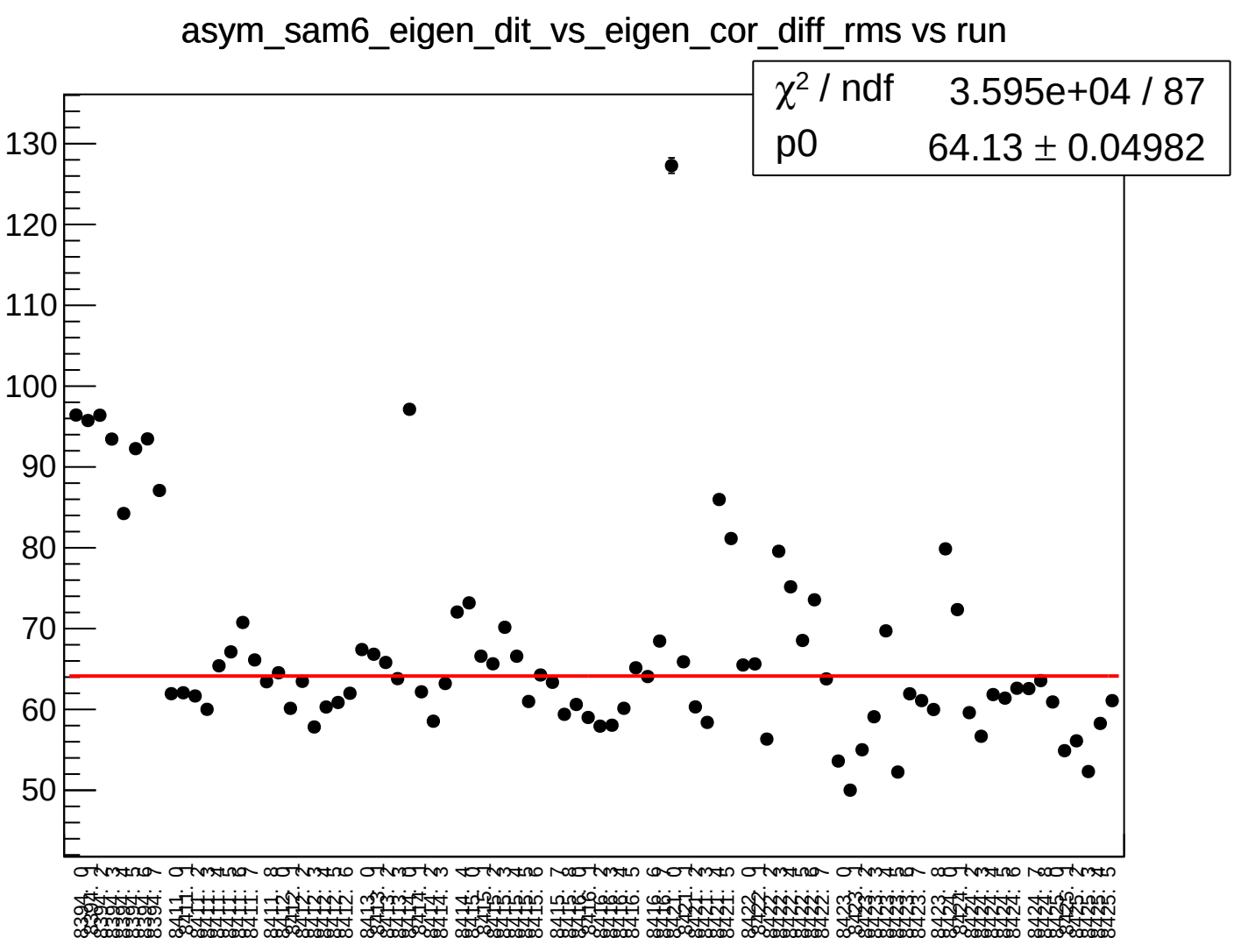

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.18 / 87
p0 −5.486e−06 ± 1.543e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 88
Mean 120.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01185
Std Dev 0.9722
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

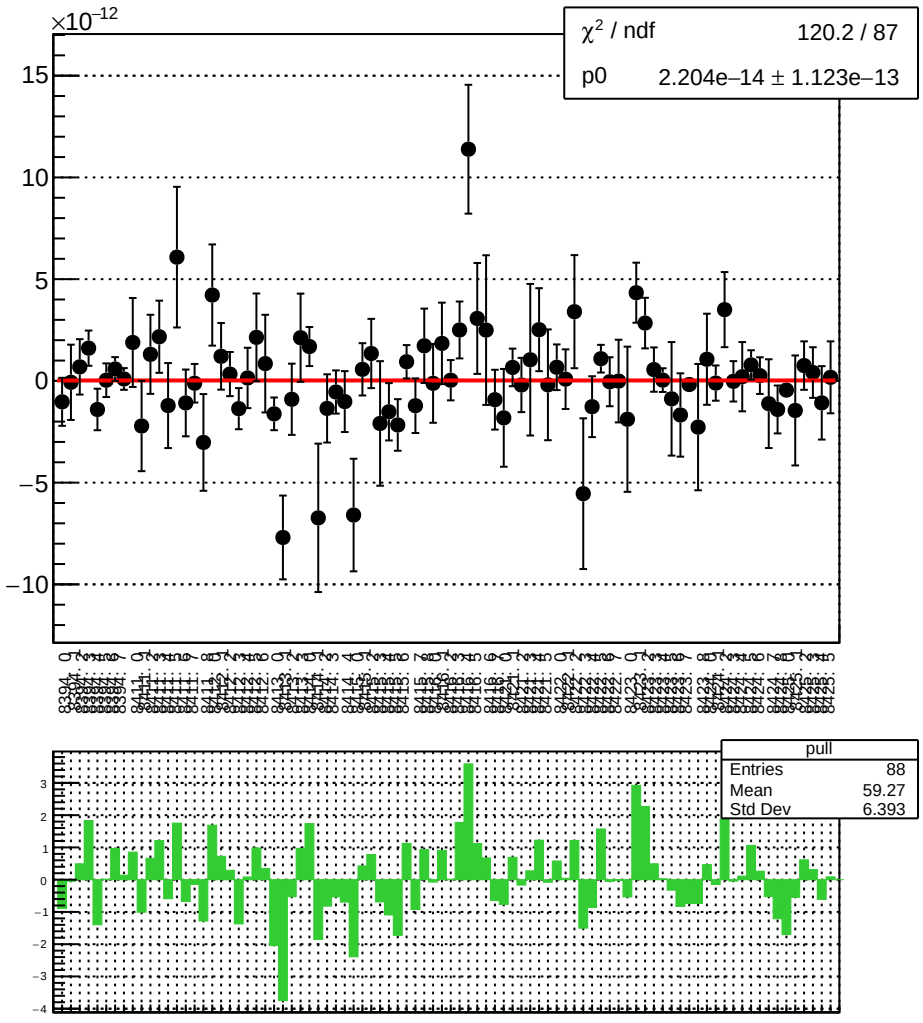

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.714e+05 / 87
p0 0.001206 ± 1.091e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

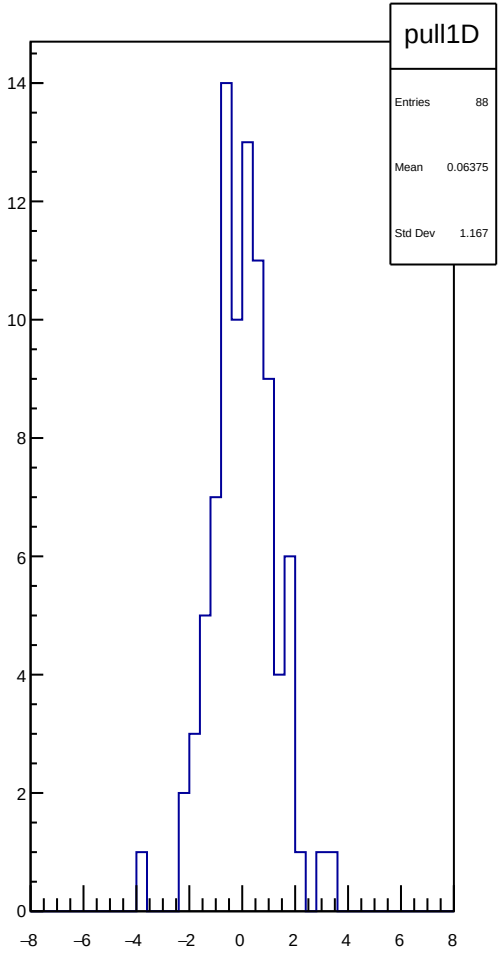

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.07 / 87
p0 −0.2481± 0.07046
pull
Entries 88
Mean −238.4
Std Dev 0
pull1D
Entries 88
Mean −0.01939
Std Dev 0.9945

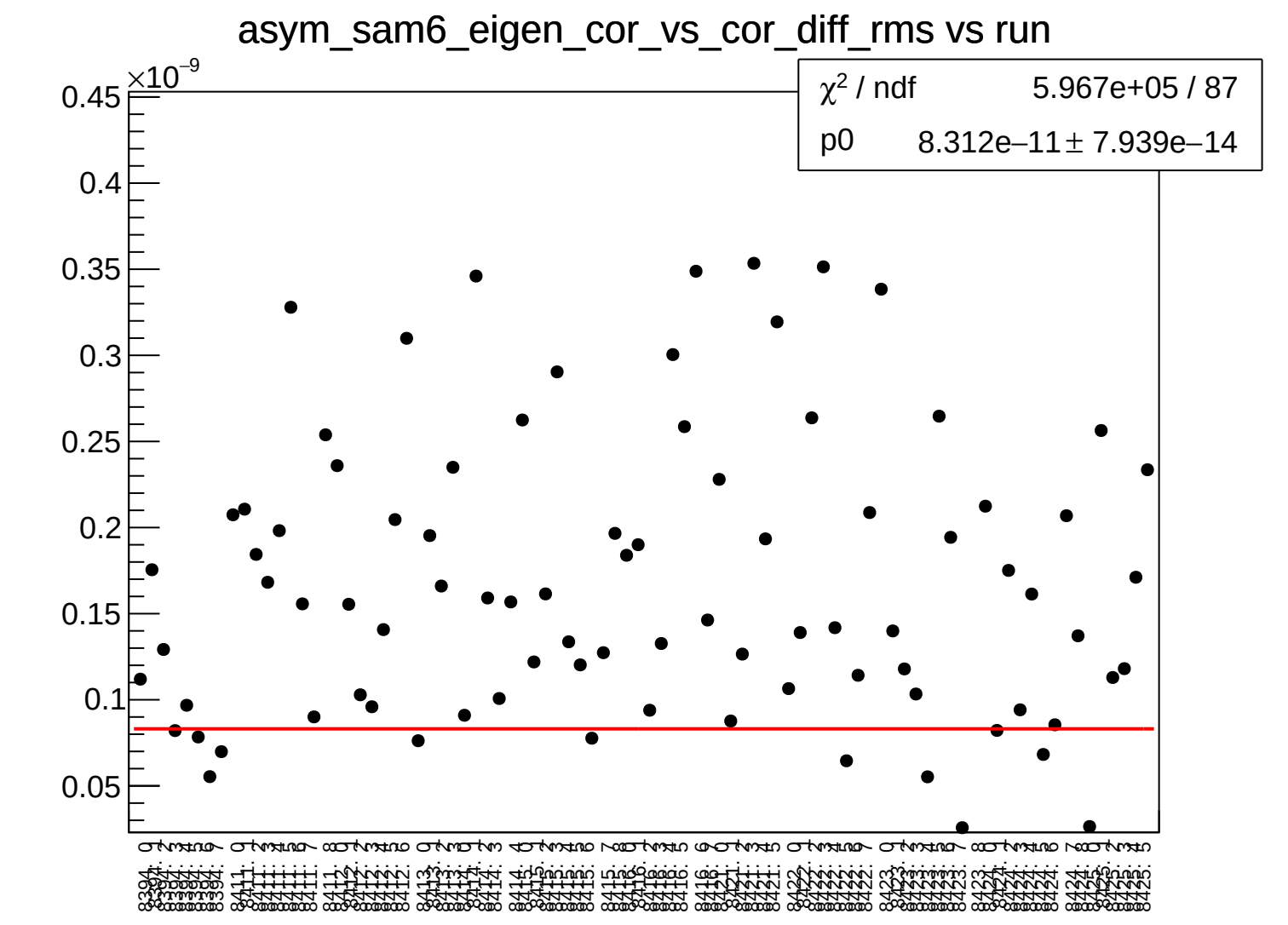

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.595e+04 / 87
p0 64.13 ± 0.04982
130
120
110
100
90
80
70
60
50

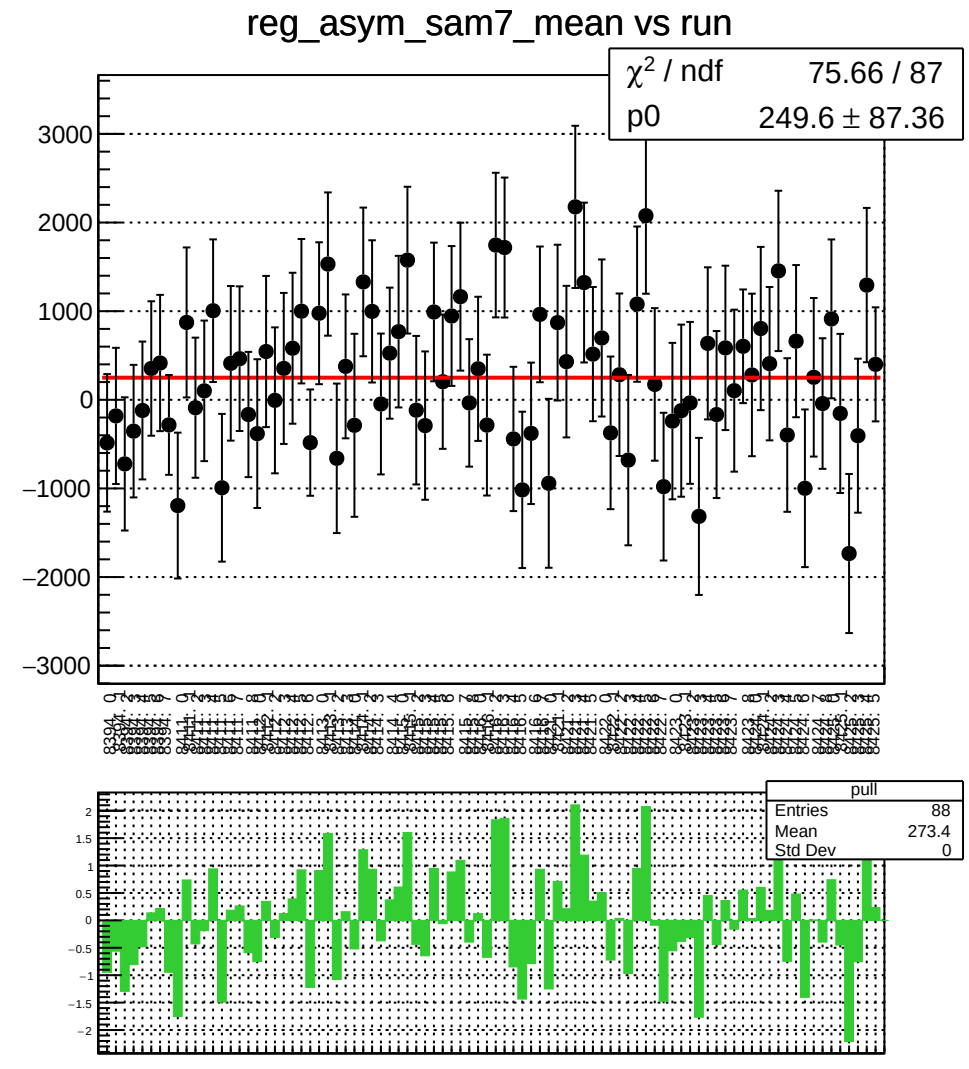

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.07 / 87
p0 −0.2481± 0.07046
pull
Entries 88
Mean −238.4
Std Dev 0
pull1D
Entries 88
Mean −0.01939
Std Dev 0.9945

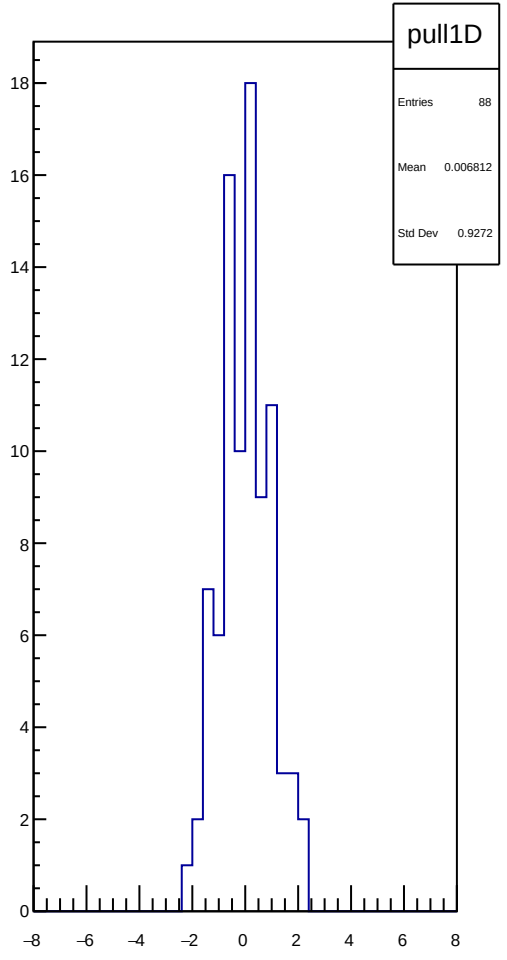

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.595e+04 / 87
p0 64.13 ± 0.04982
130
120
110
100
90
80
70
60
50

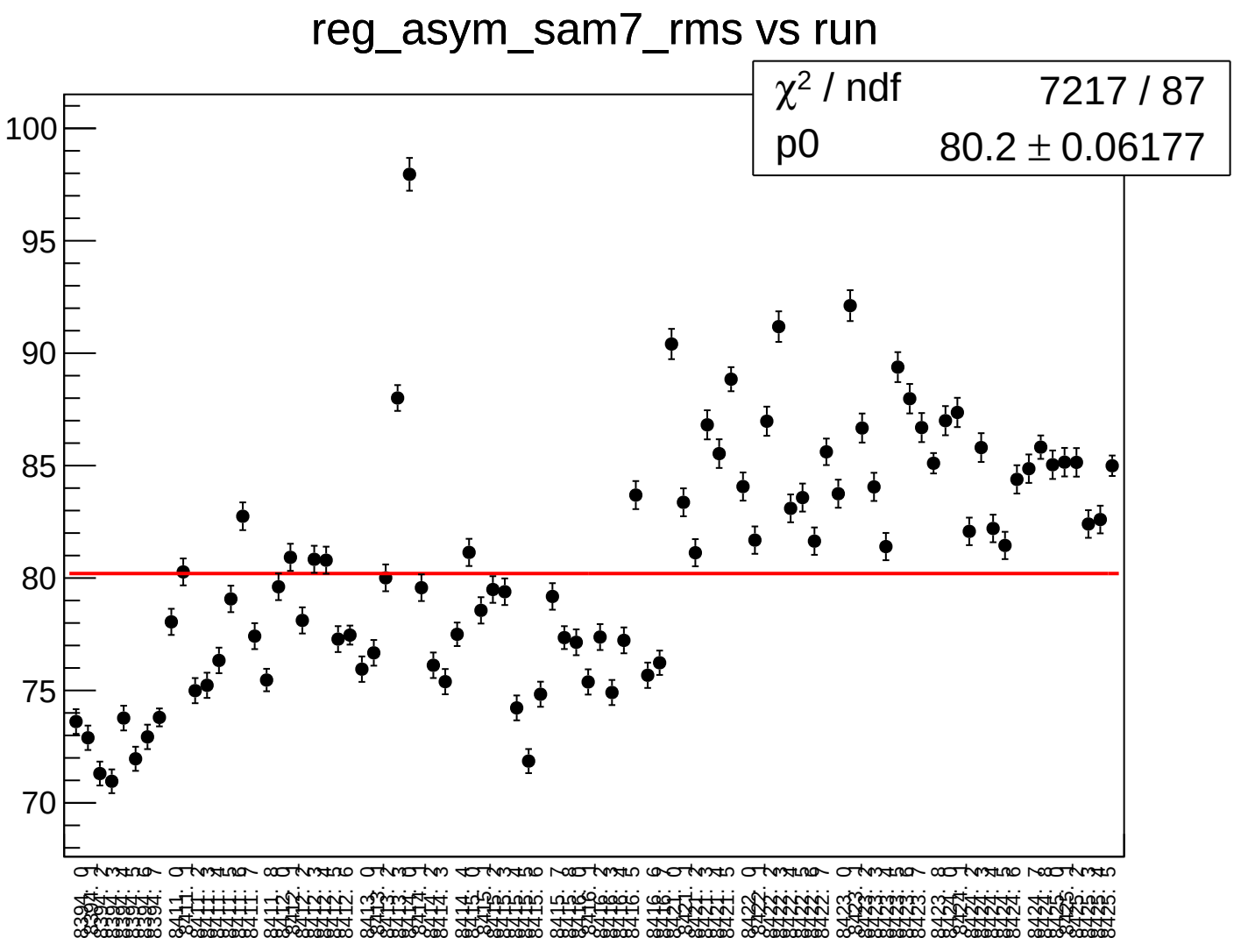

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 120.2 / 87
p0 2.204e−14 ± 1.123e−13
15
10
5
0
−5
−10
pull
Entries 88
Mean 59.27
Std Dev 6.393
3
2
1
0
−1
−2
−3
−4

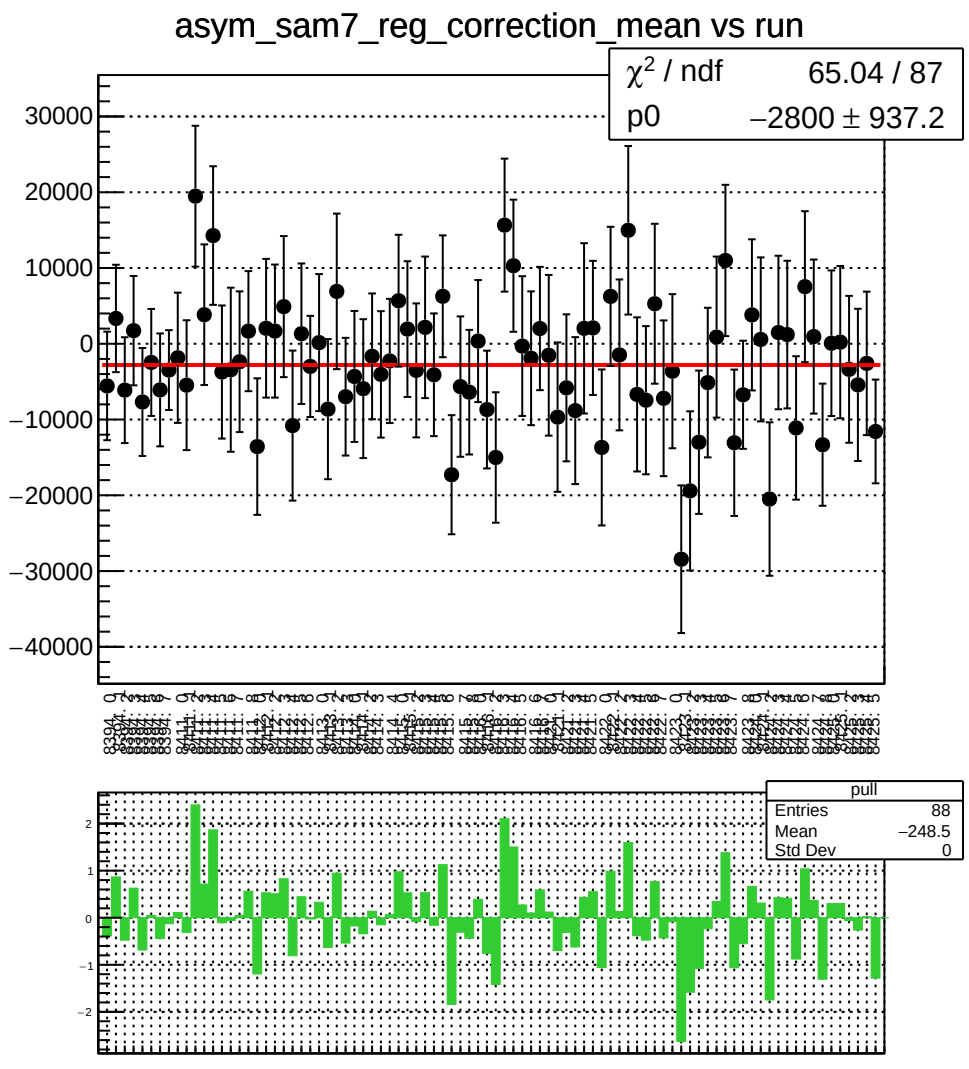

pull1D
Entries 88
Mean 0.06375
Std Dev 1.167
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

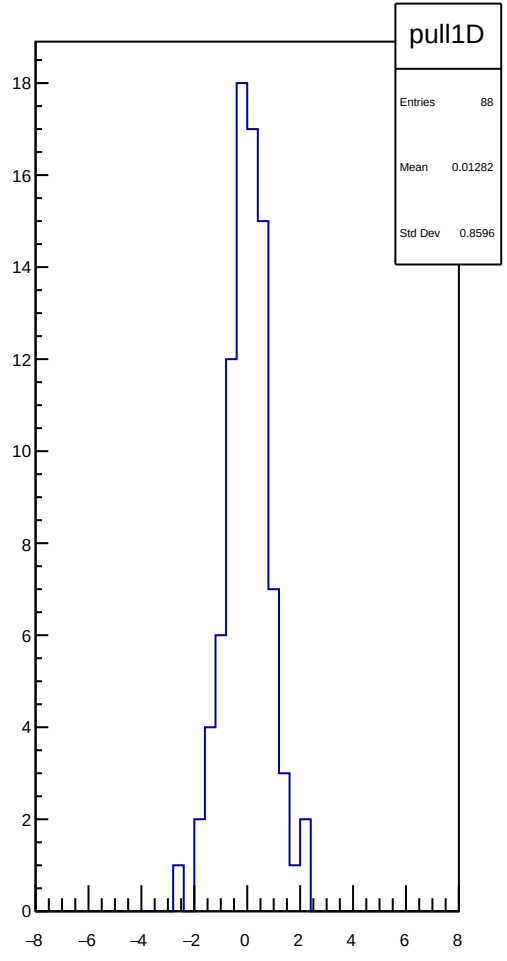

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 5.967e+05 / 87
p0 8.312e−11 ± 7.939e−14

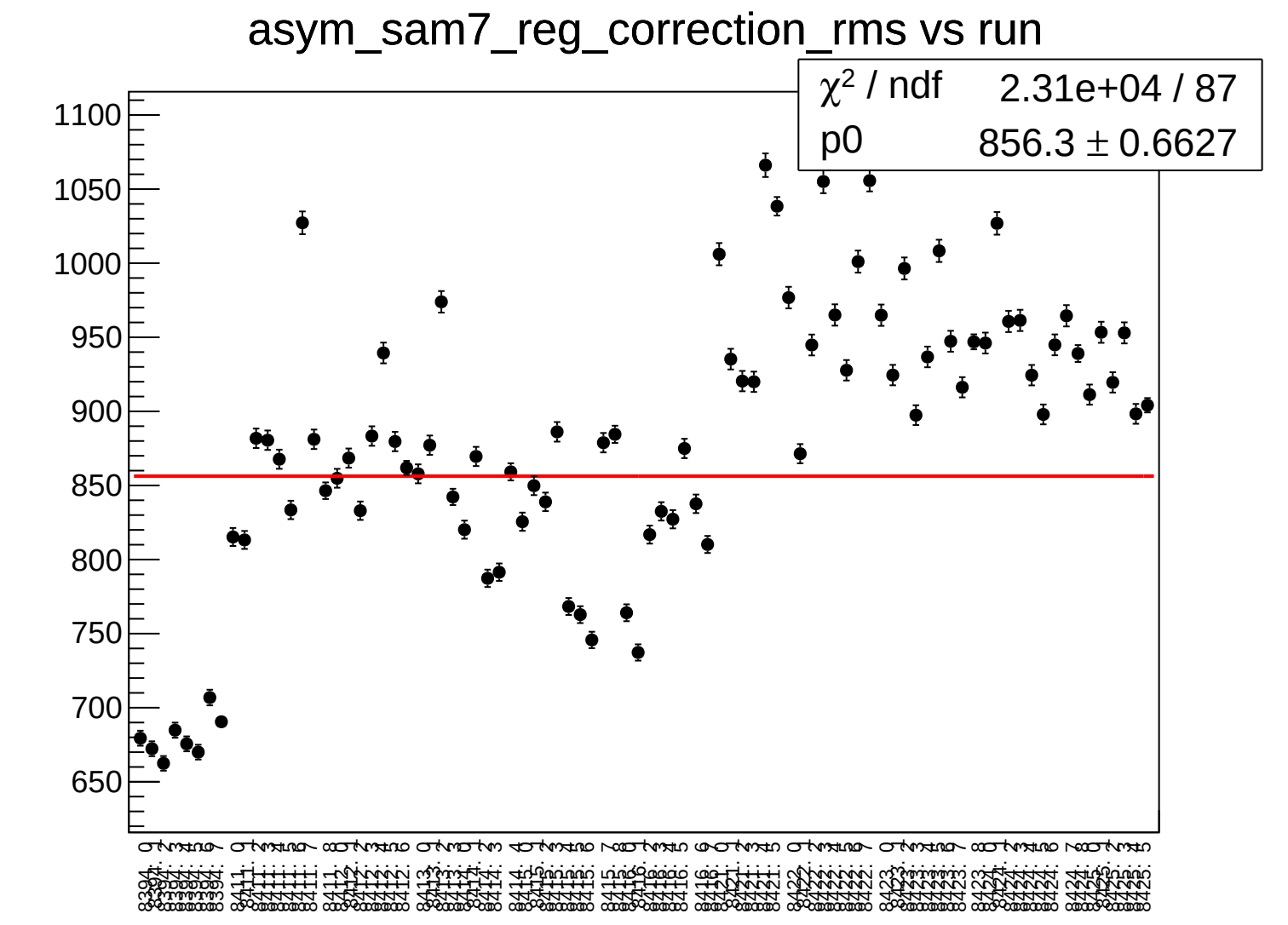

reg_asym_sam7_mean vs run
χ^2 / ndf 75.66 / 87
p0 249.6 ± 87.36
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 273.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

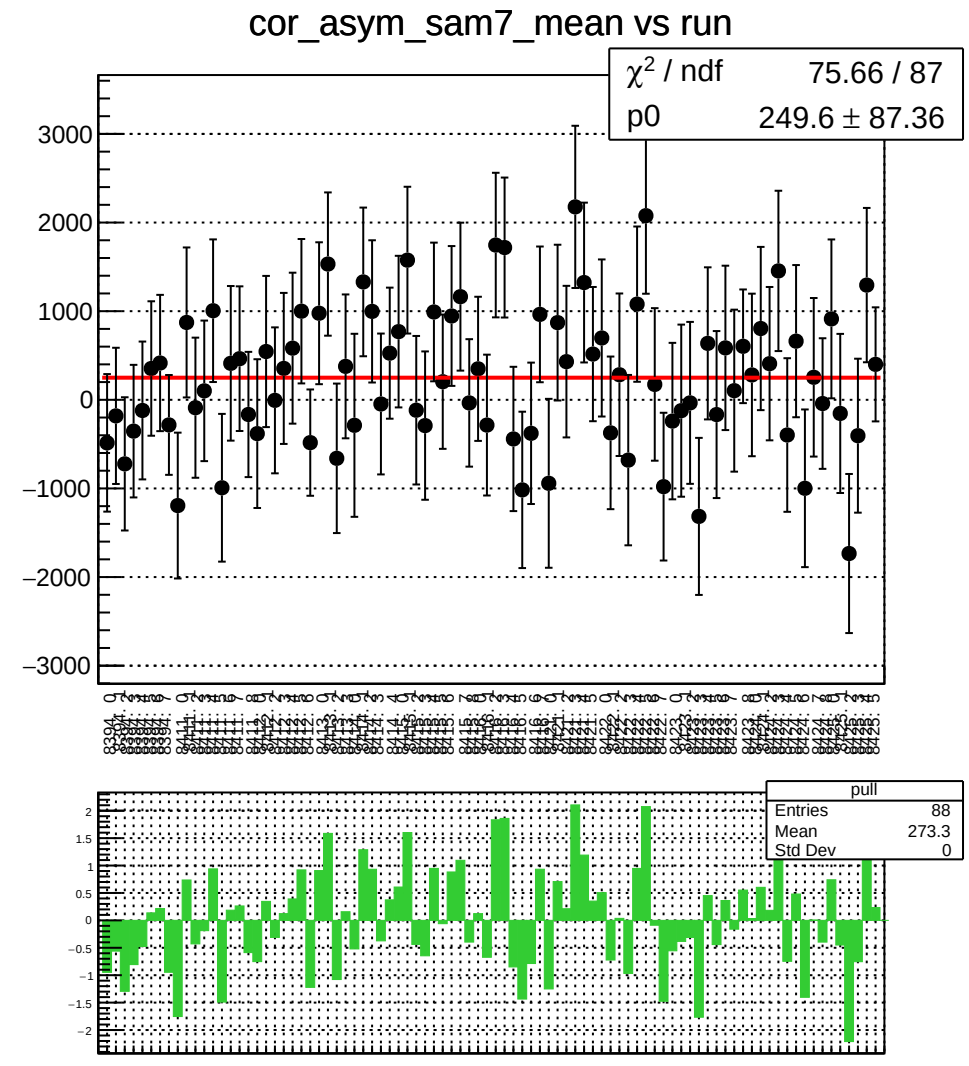

pull1D
Entries 88
Mean 0.006812
Std Dev 0.9272
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

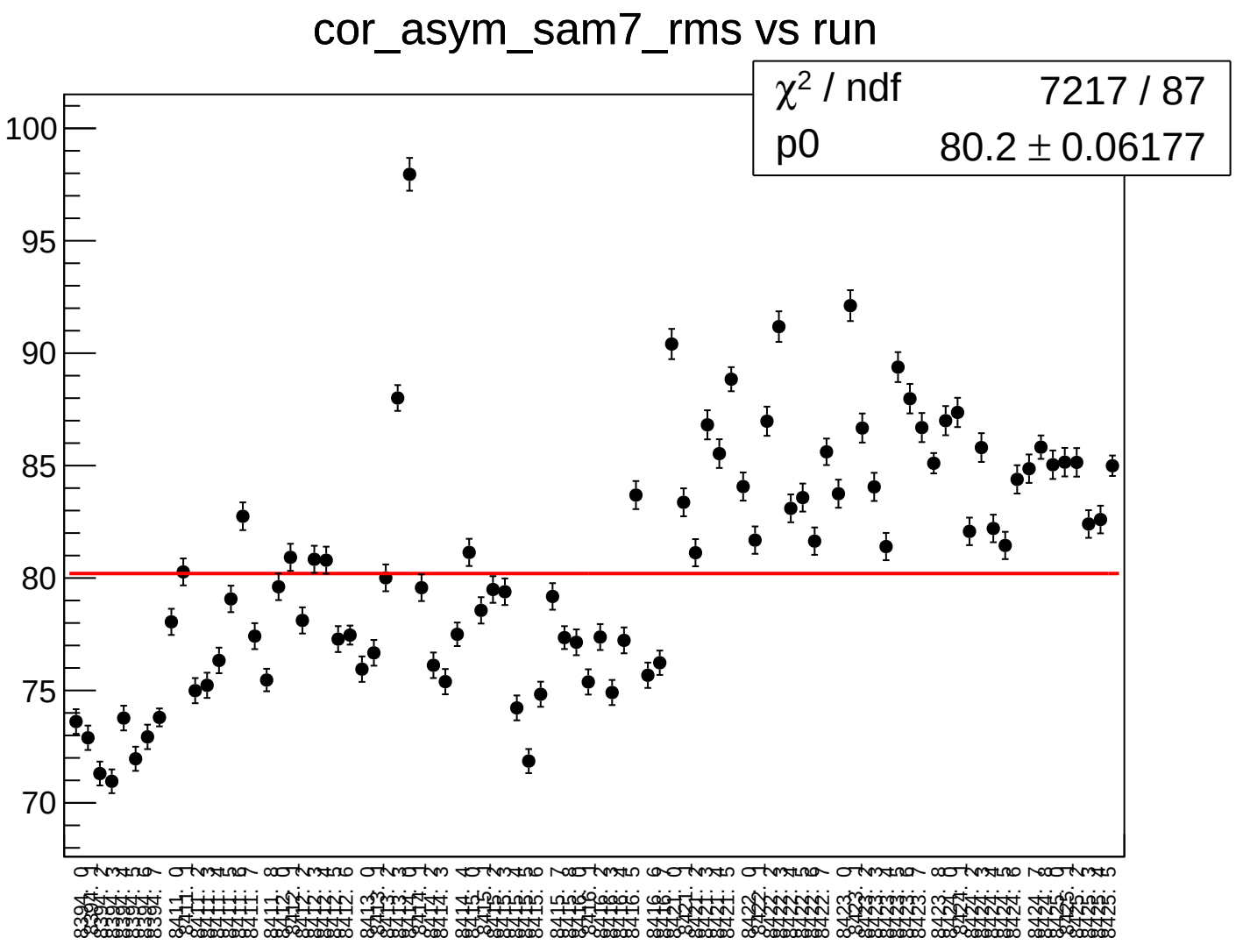

reg_asym_sam7_rms vs run
χ² / ndf 7217 / 87
p0 80.2 ± 0.06177
100
95
90
85
80
75
70

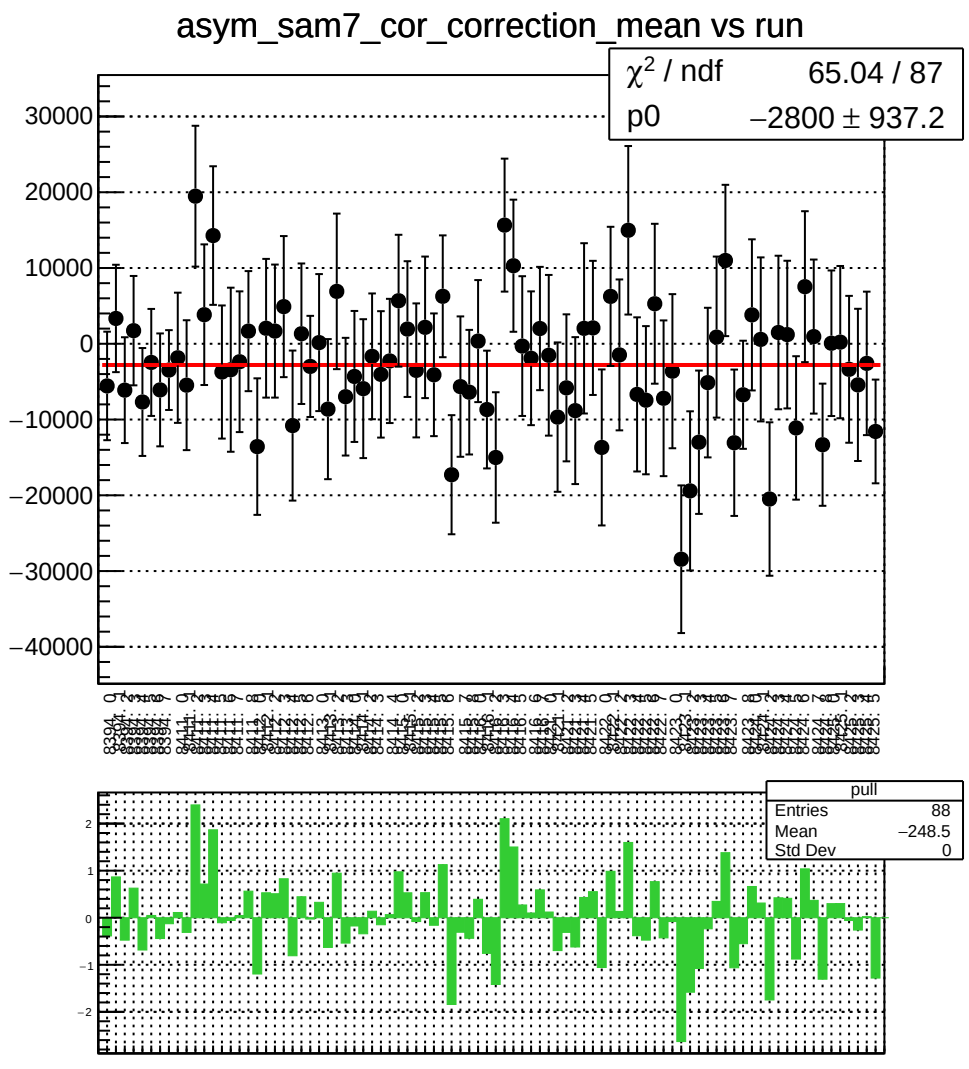

asym_sam7_reg_correction_mean vs run
χ² / ndf 65.04 / 87
p0 −2800 ± 937.2
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −248.5
Std Dev 0
2
1
0
−1
−2

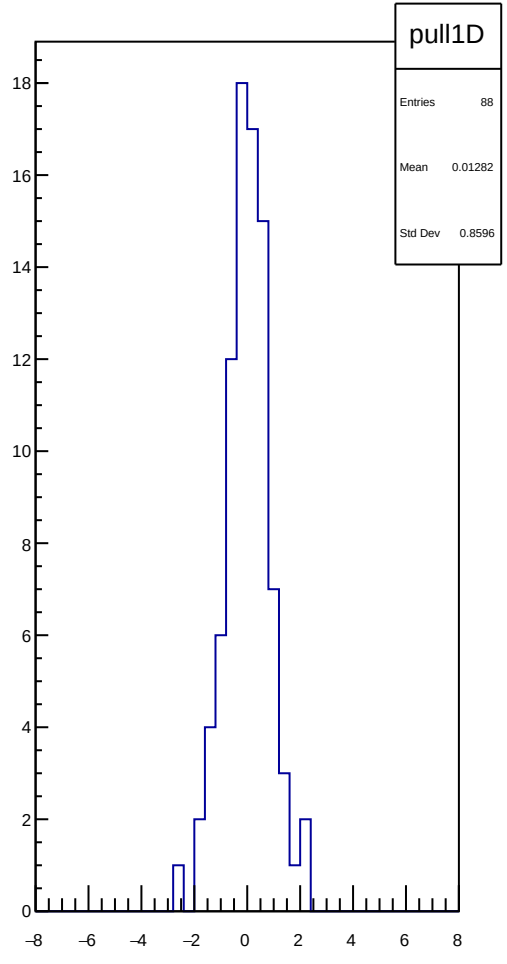

pull1D
Entries 88
Mean 0.01282
Std Dev 0.8596
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

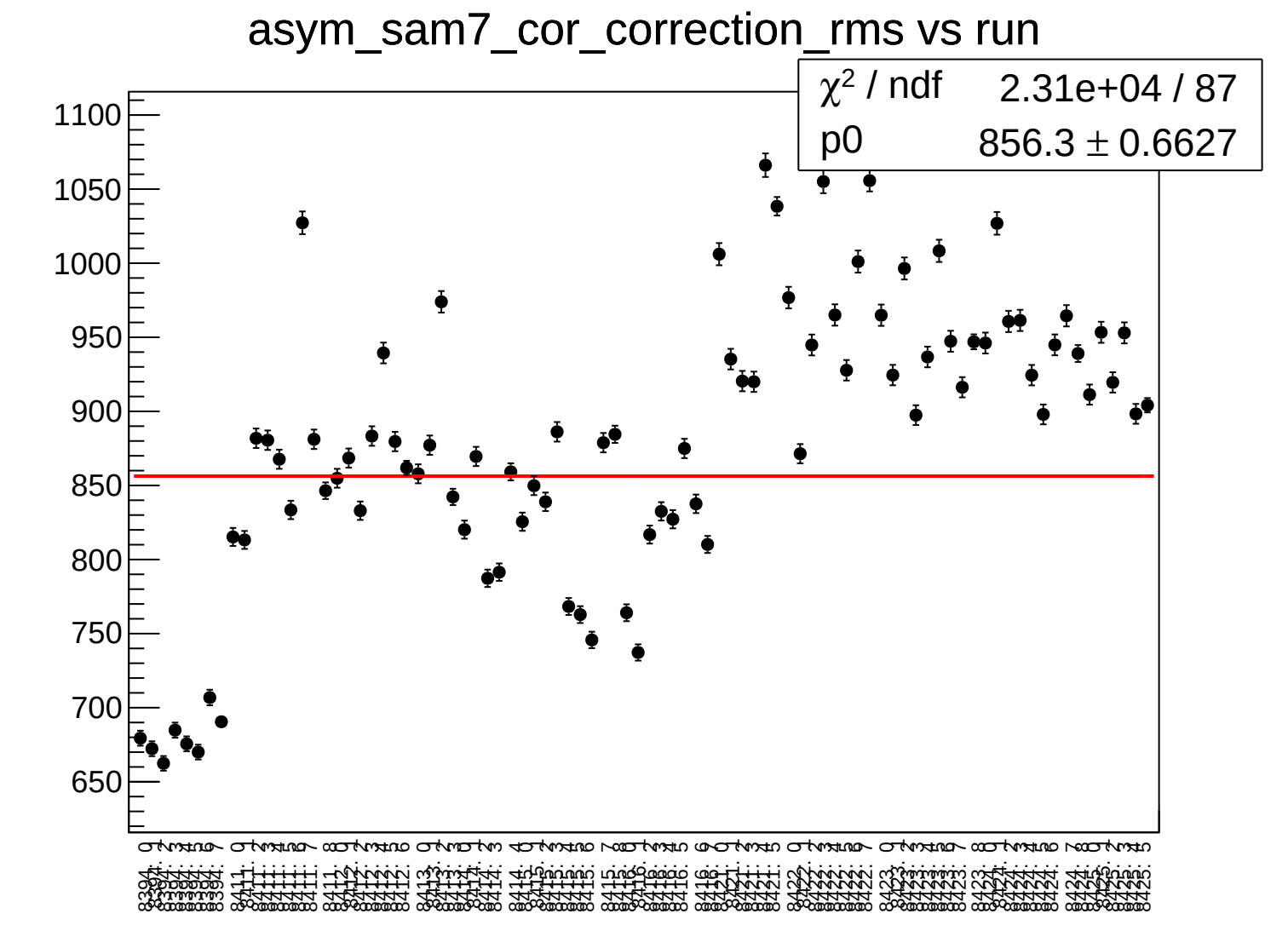

asym_sam7_reg_correction_rms vs run
χ² / ndf 2.31e+04 / 87
p0 856.3 ± 0.6627
1100
1050
1000
950
900
850
800
750
700
650

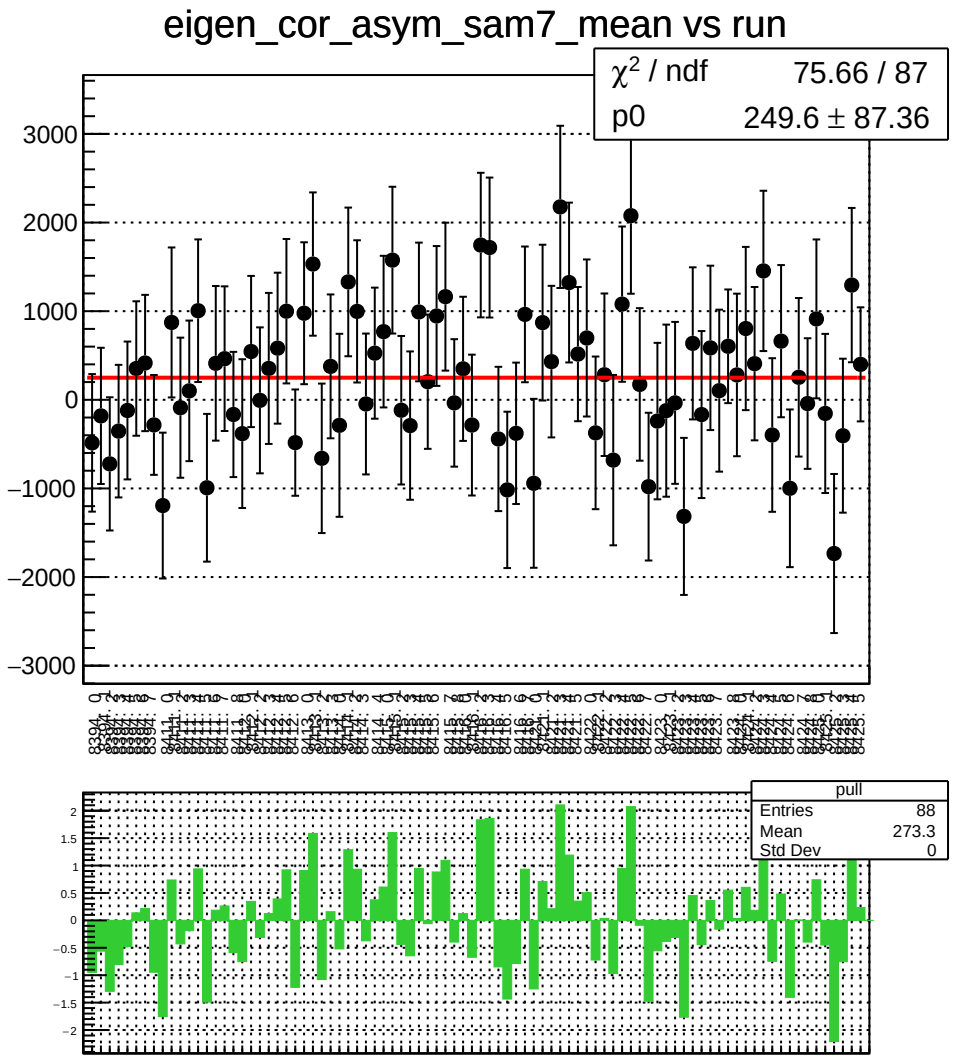

cor_asym_sam7_mean vs run
χ² / ndf 75.66 / 87
p0 249.6 ± 87.36
pull
Entries 88
Mean 273.3
Std Dev 0
pull1D
Entries 88
Mean 0.006811
Std Dev 0.9272

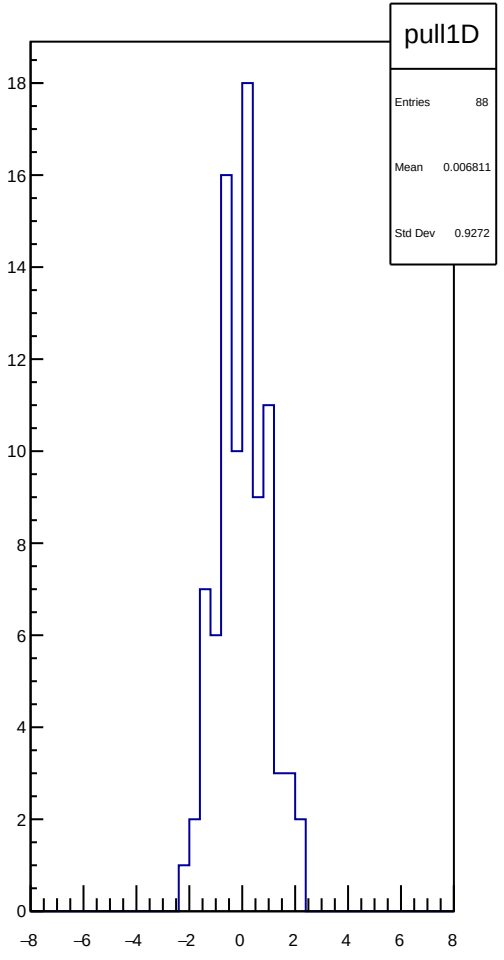

cor_asym_sam7_rms vs run
χ² / ndf 7217 / 87
p0 80.2 ± 0.06177
100
95
90
85
80
75
70

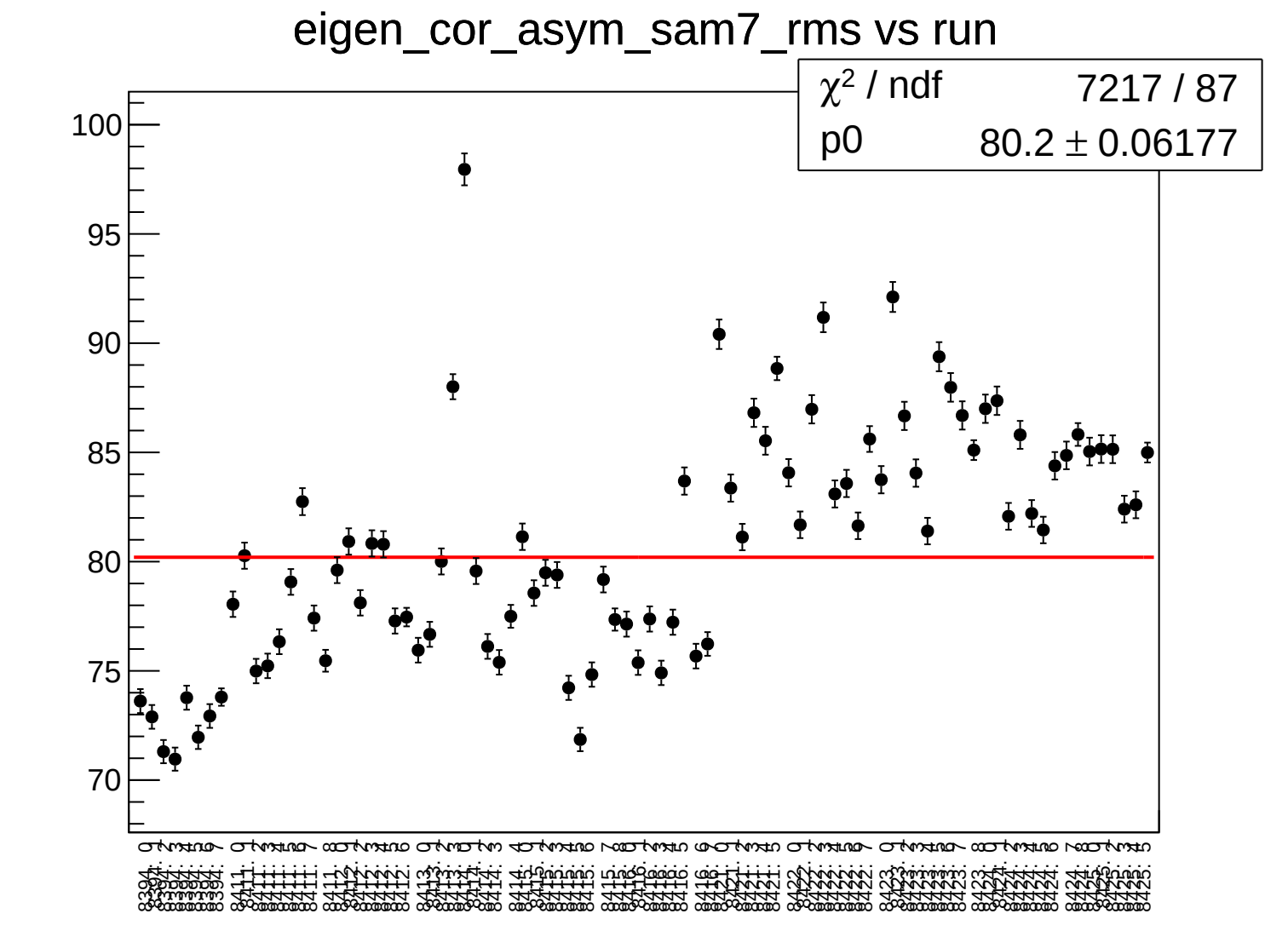

asym_sam7_cor_correction_mean vs run
χ² / ndf 65.04 / 87
p0 −2800 ± 937.2
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −248.5
Std Dev 0
2
1
0
−1
−2

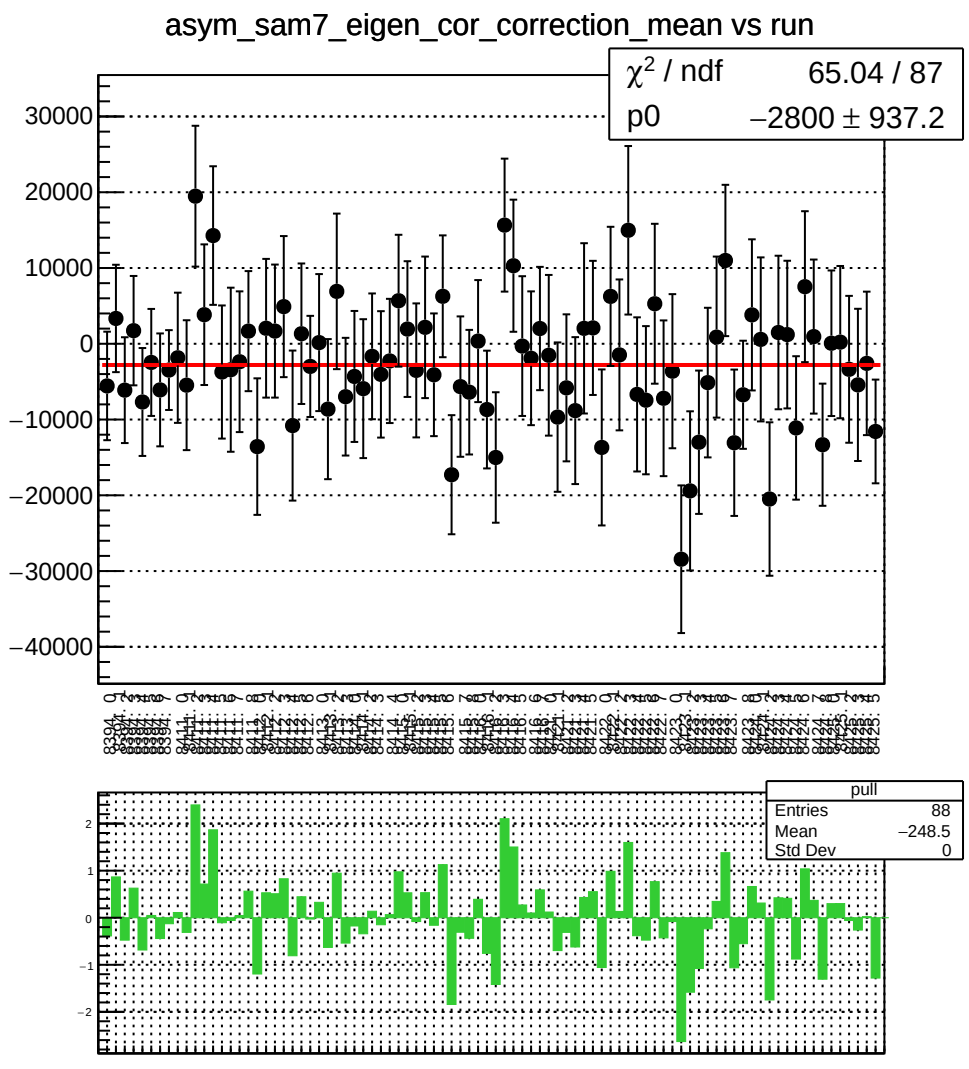

pull1D
Entries 88
Mean 0.01282
Std Dev 0.8596
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

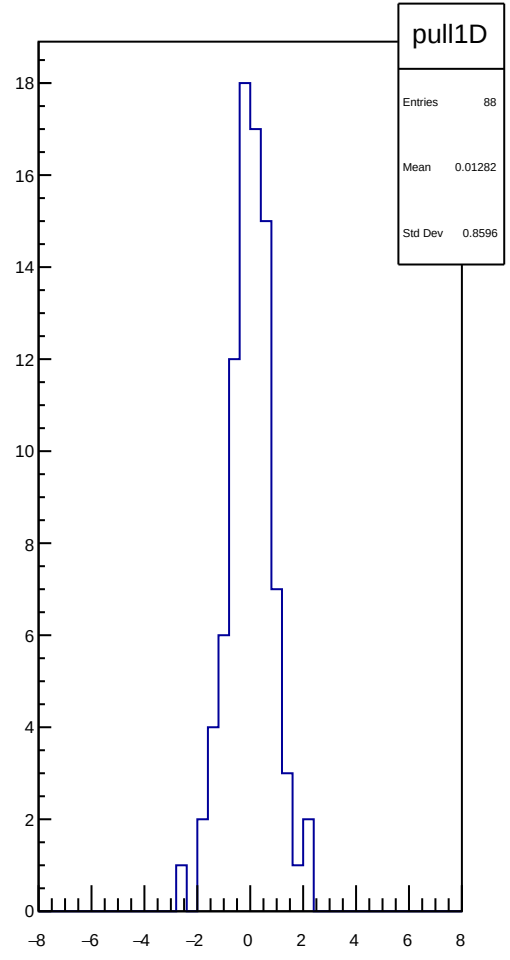

asym_sam7_cor_correction_rms vs run
χ² / ndf 2.31e+04 / 87
p0 856.3 ± 0.6627
1100
1050
1000
950
900
850
800
750
700
650

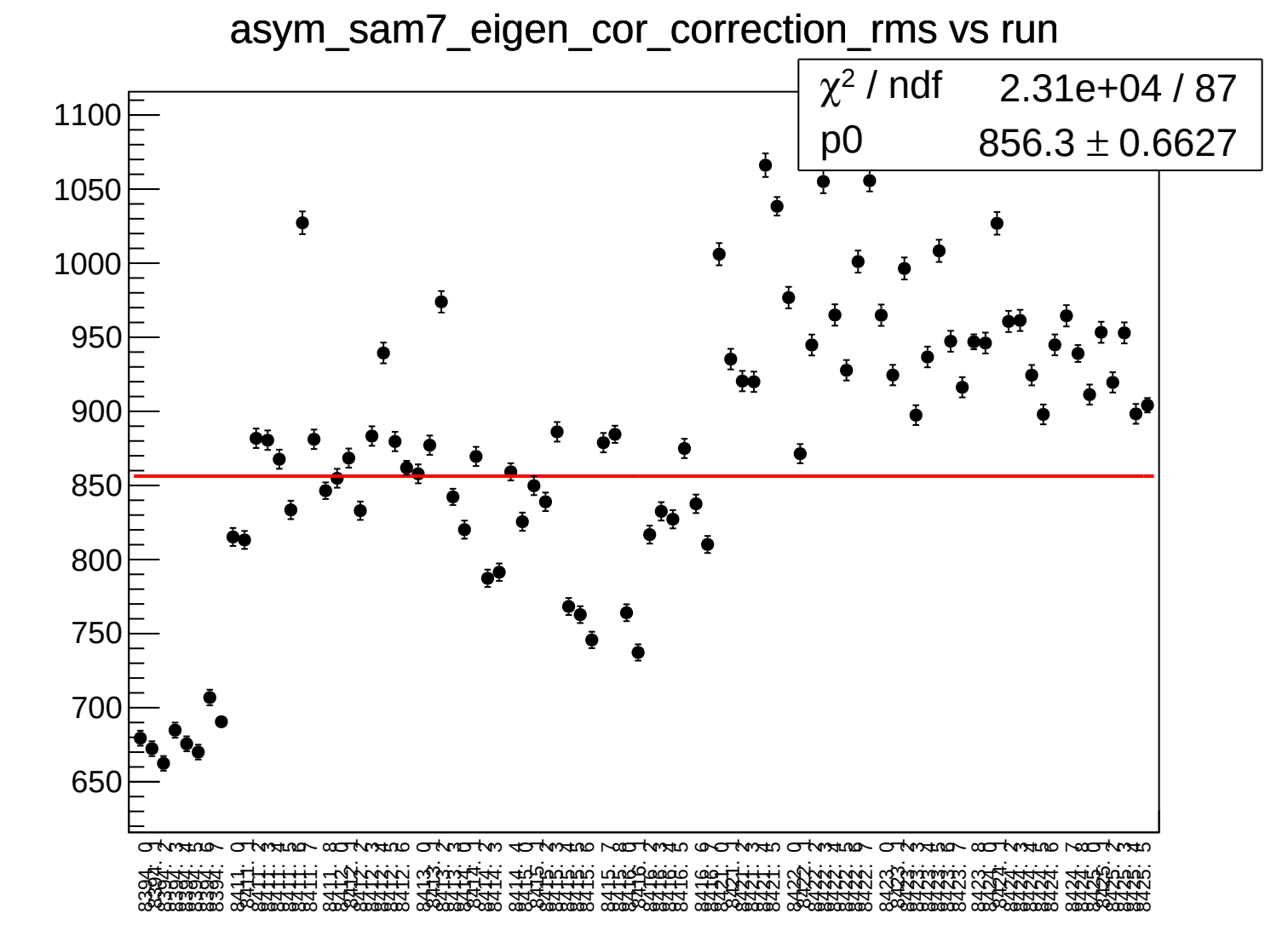

eigen_cor_asym_sam7_mean vs run
χ² / ndf 75.66 / 87
p0 249.6 ± 87.36
pull
Entries 88
Mean 273.3
Std Dev 0

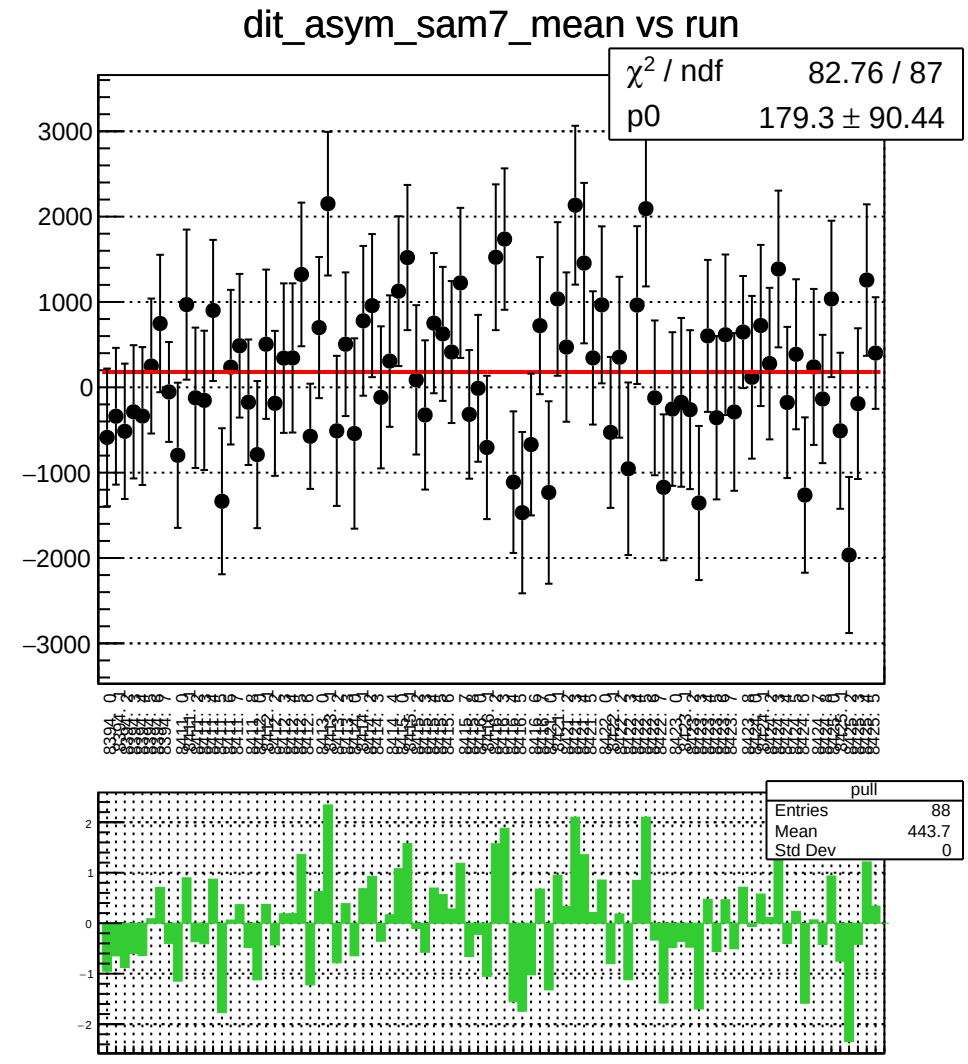

pull1D
Entries 88
Mean 0.006811
Std Dev 0.9272

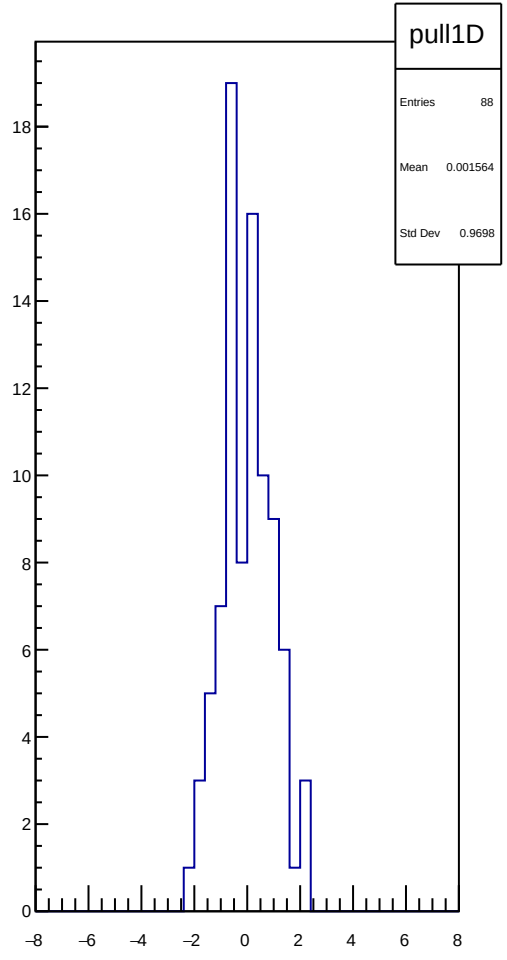

eigen_cor_asym_sam7_rms vs run
χ² / ndf 7217 / 87
p0 80.2 ± 0.06177
100
95
90
85
80
75
70

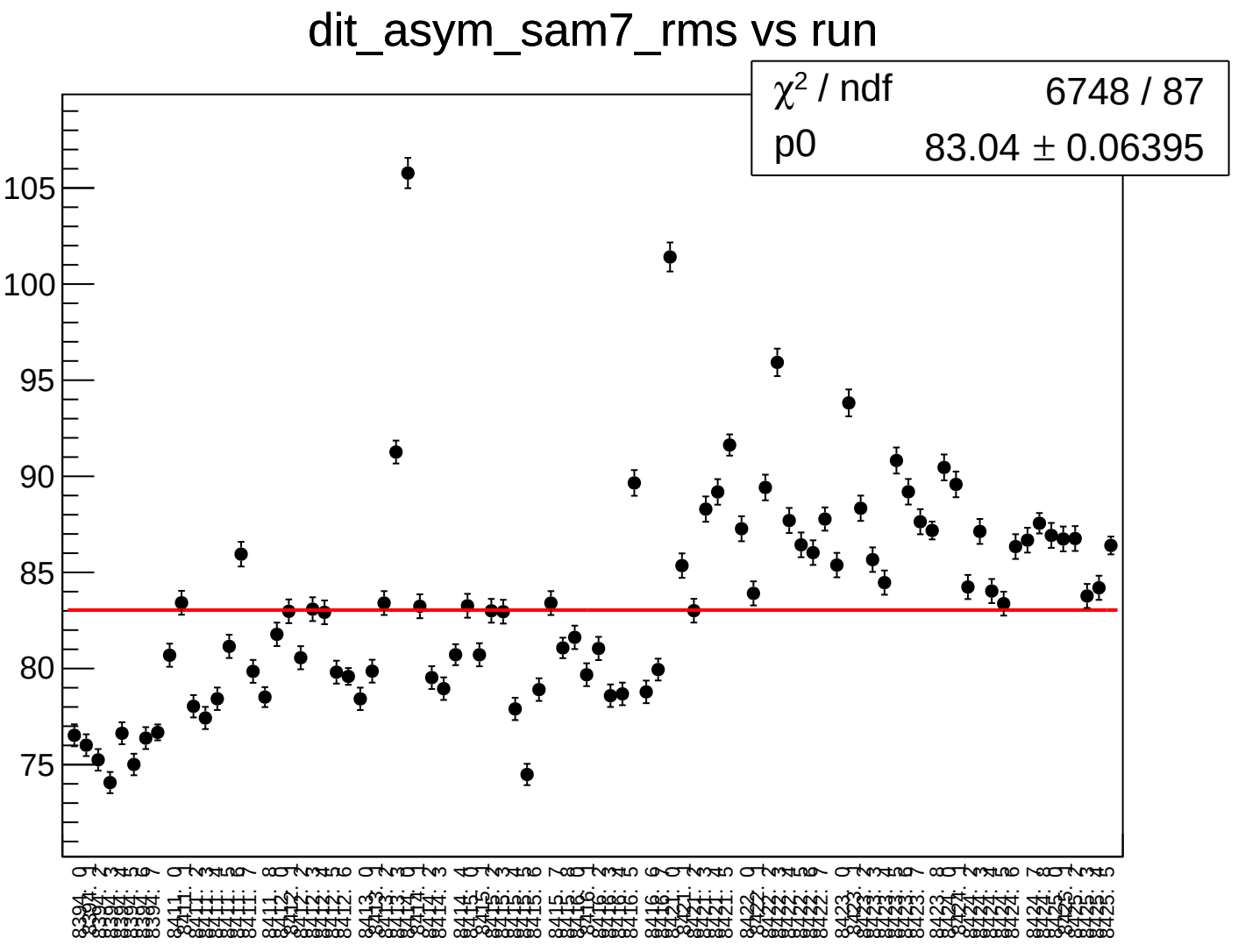

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 65.04 / 87
p0 −2800 ± 937.2
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −248.5
Std Dev 0
2
1
0
−1
−2

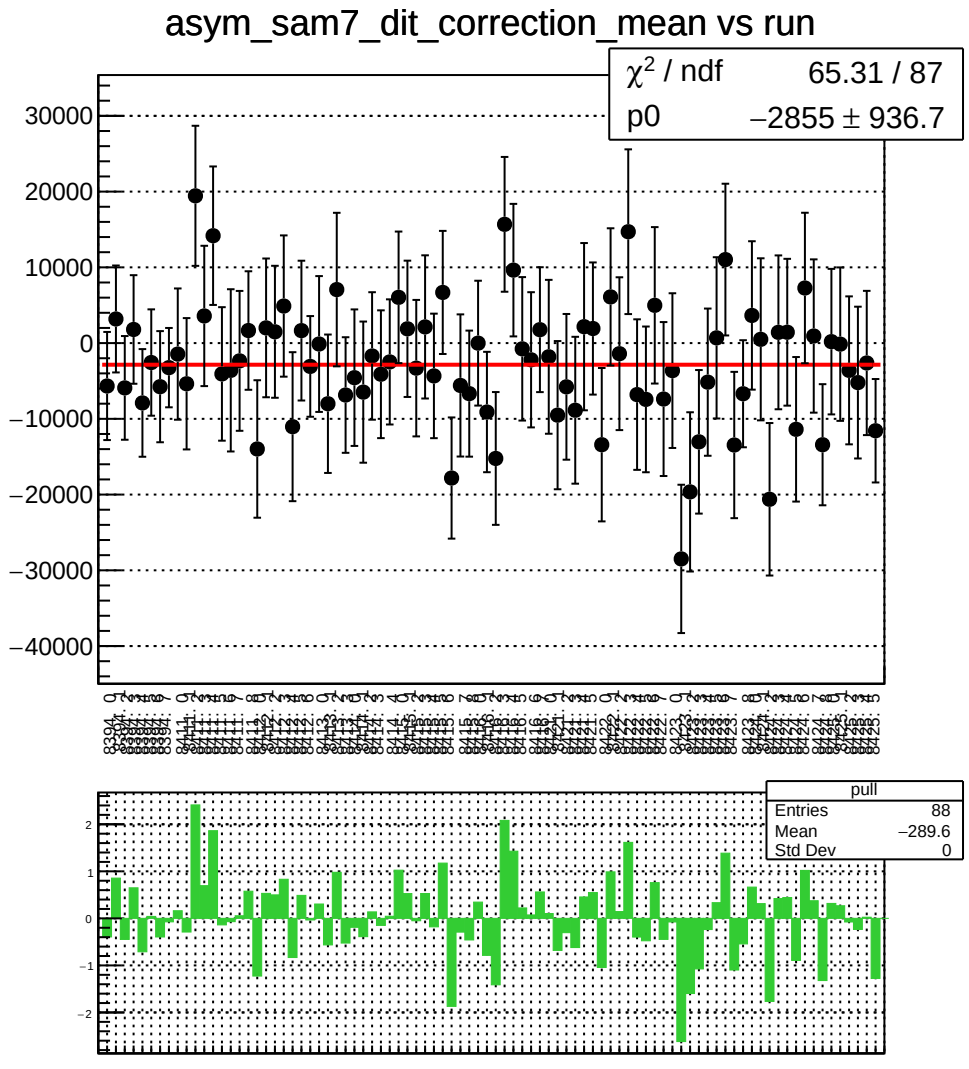

pull1D
Entries 88
Mean 0.01282
Std Dev 0.8596
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

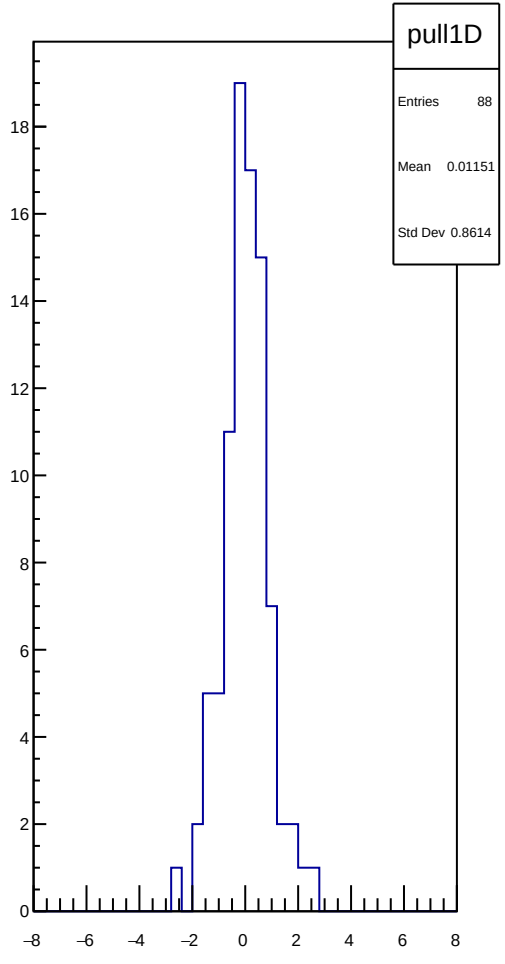

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 2.31e+04 / 87
p0 856.3 ± 0.6627
1100
1050
1000
950
900
850
800
750
700
650

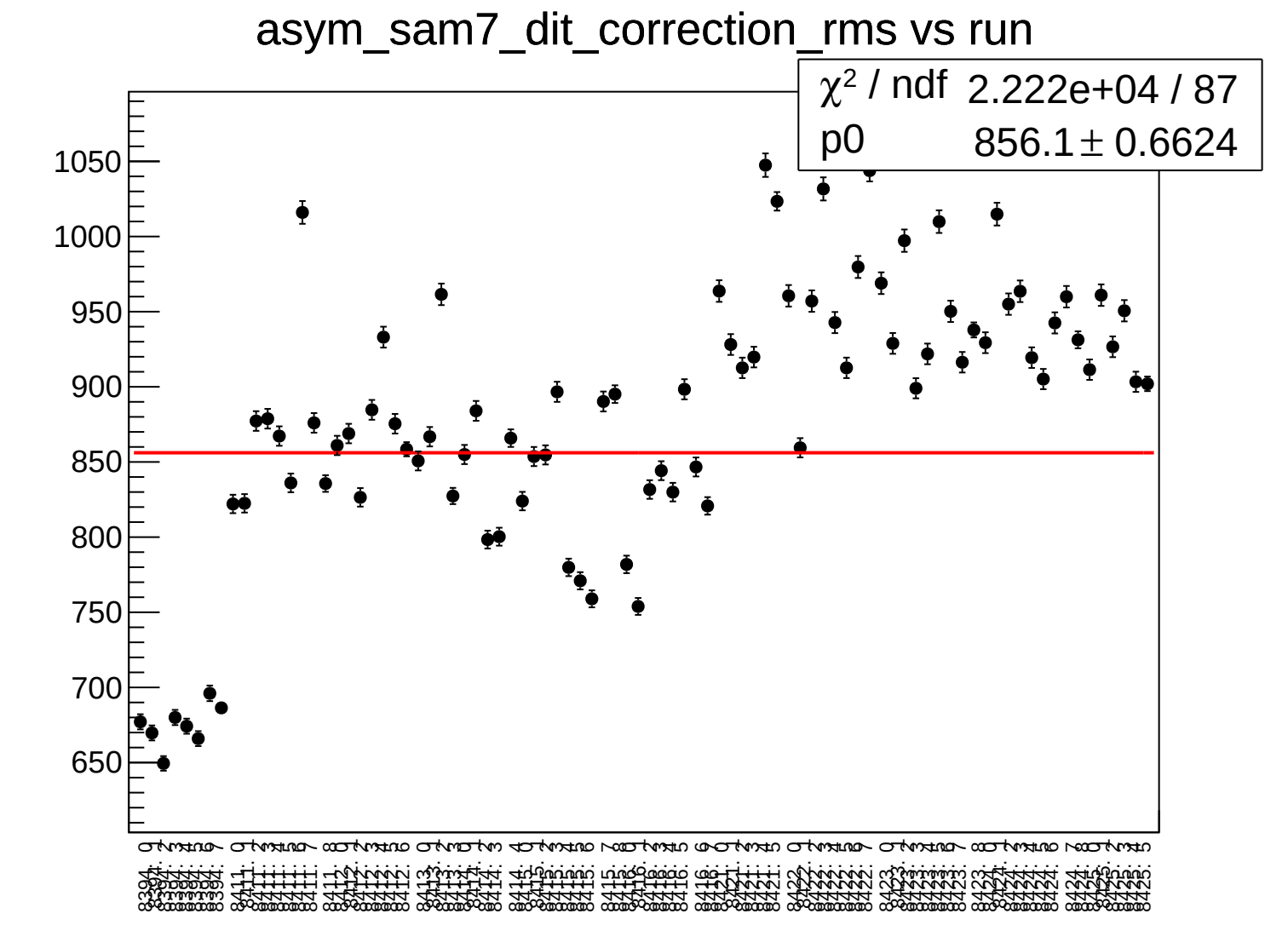

dit_asym_sam7_mean vs run
χ^2 / ndf 82.76 / 87
p0 179.3 ± 90.44
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 443.7
Std Dev 0
2
1
0
−1
−2

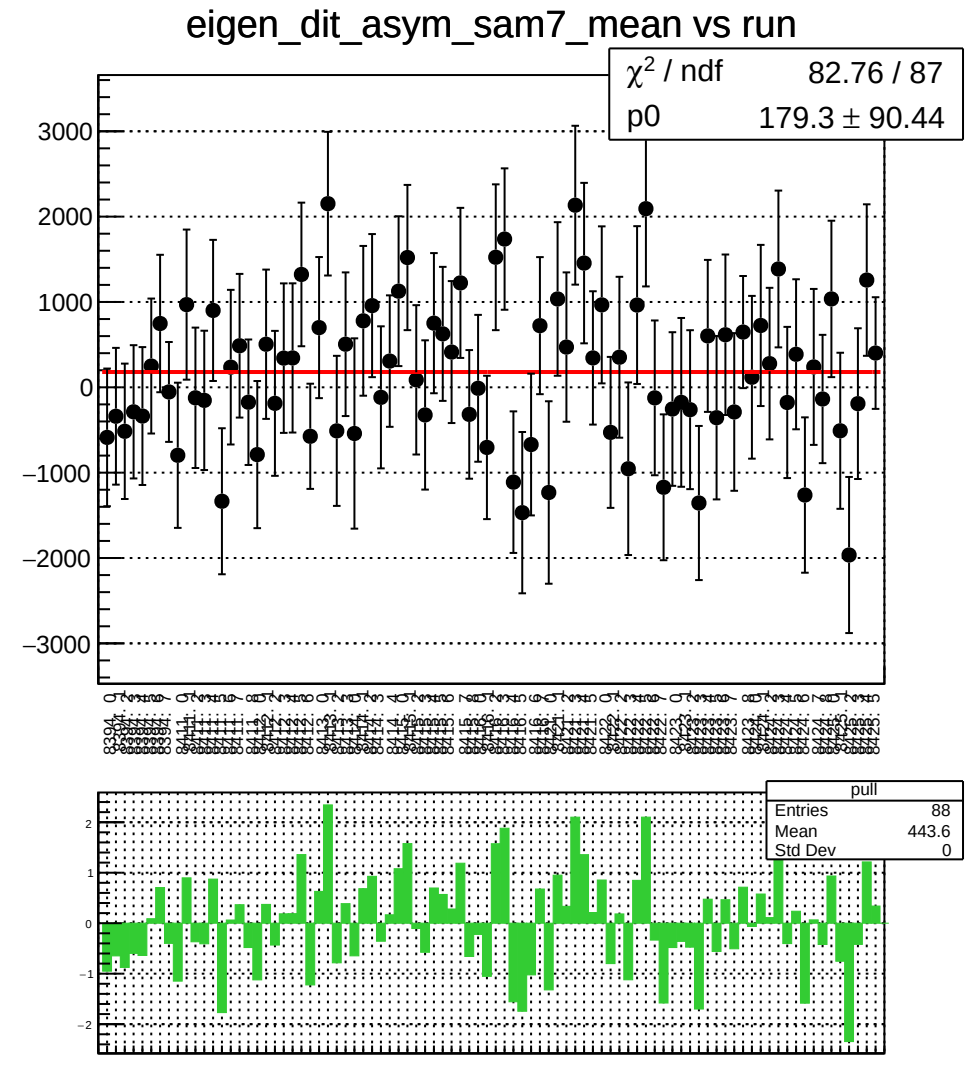

pull1D
Entries 88
Mean 0.001564
Std Dev 0.9698
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

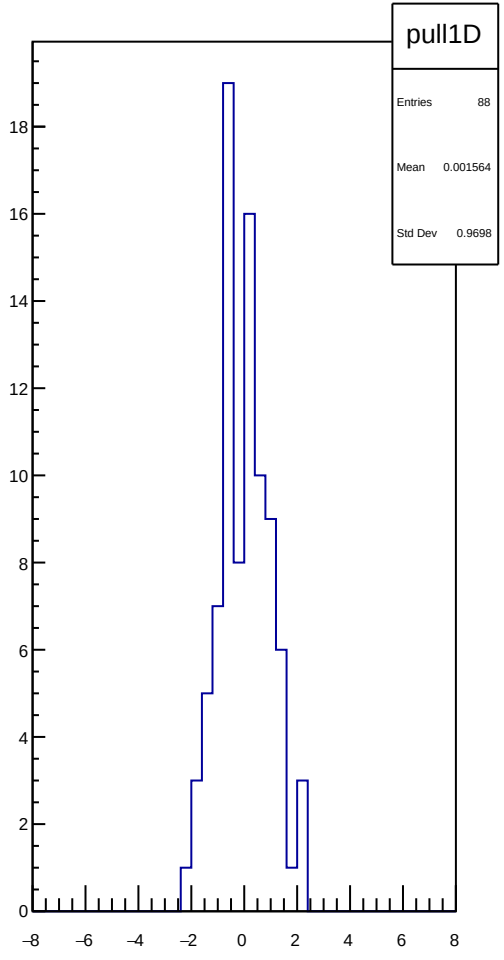

dit_asym_sam7_rms vs run
χ² / ndf 6748 / 87
p0 83.04 ± 0.06395
105
100
95
90
85
80
75

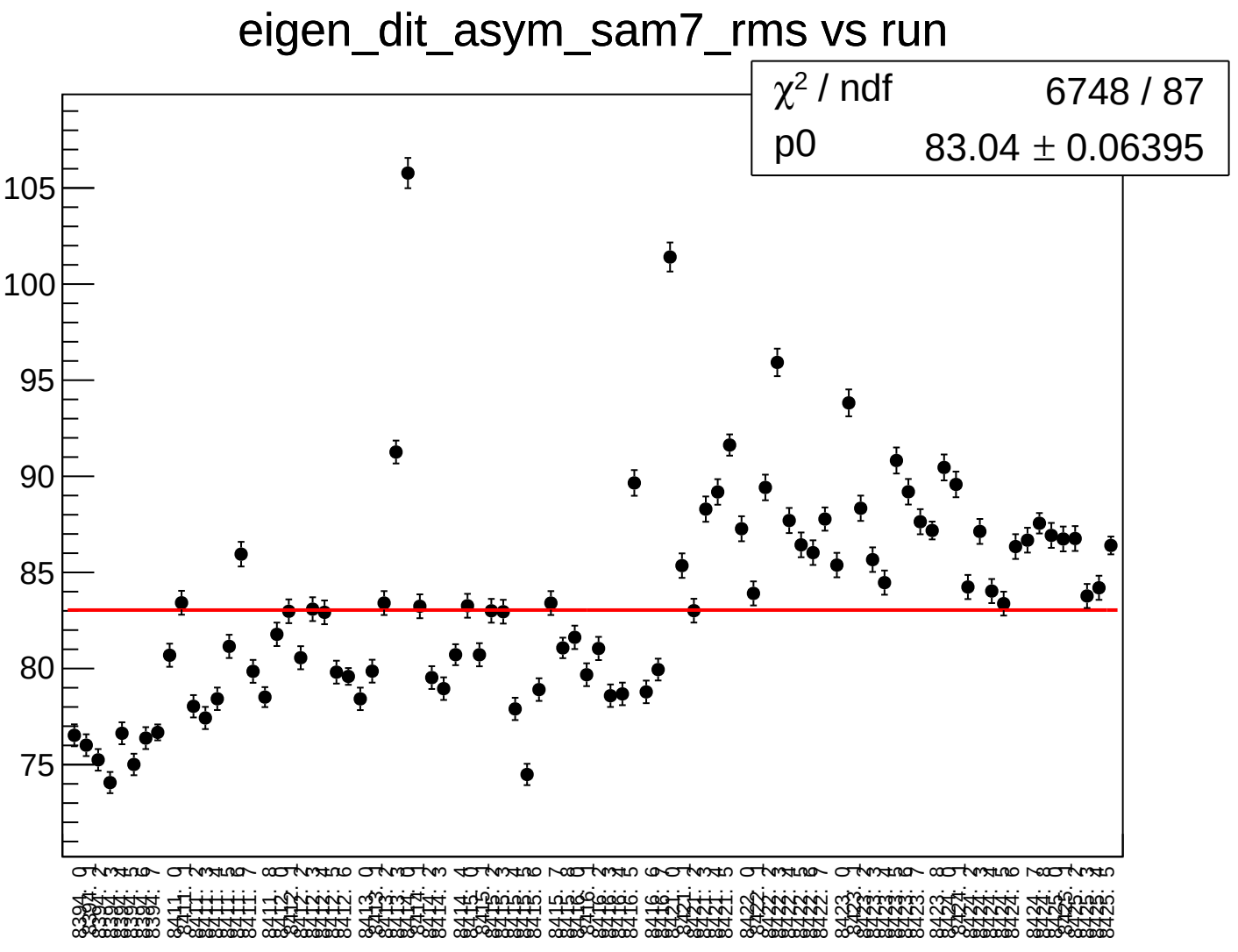

asym_sam7_dit_correction_mean vs run
χ² / ndf 65.31 / 87
p0 −2855 ± 936.7
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −289.6
Std Dev 0
2
1
0
−1
−2

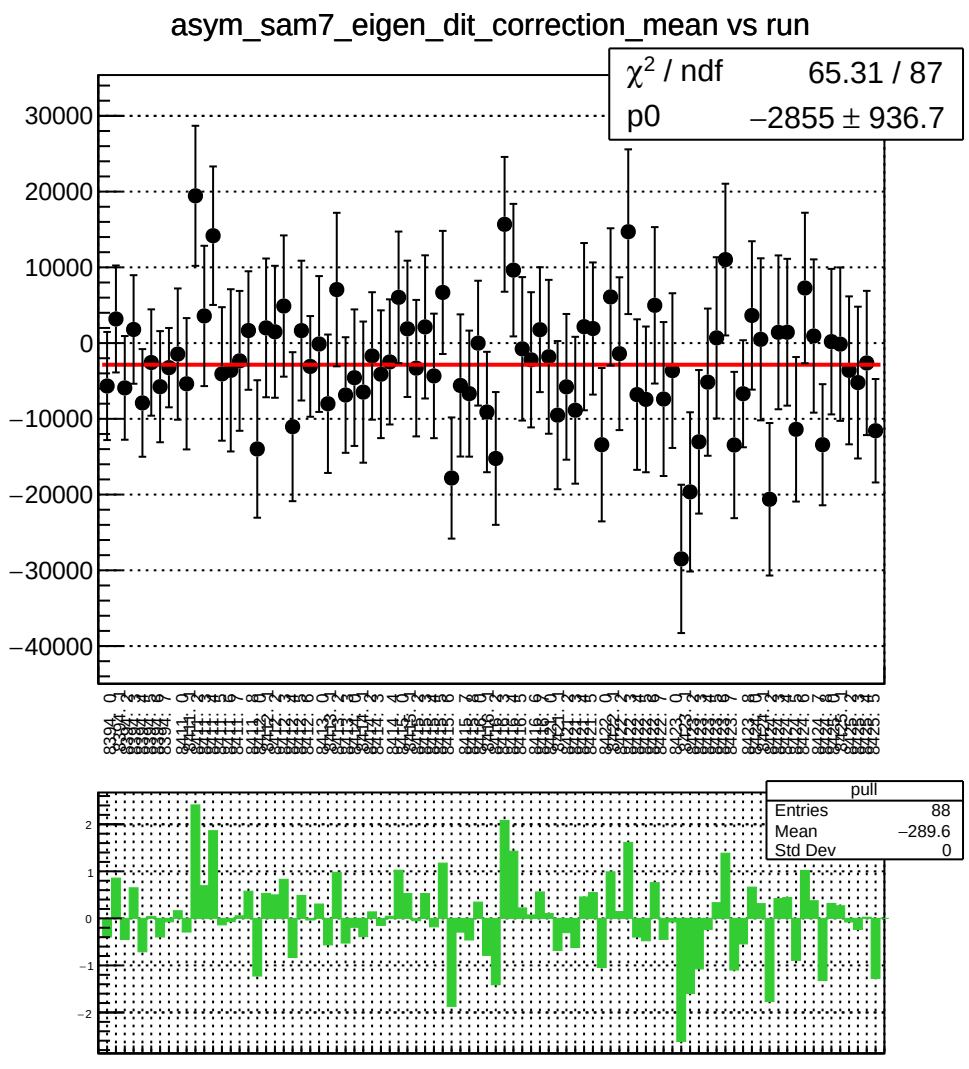

pull1D
Entries 88
Mean 0.01151
Std Dev 0.8614
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

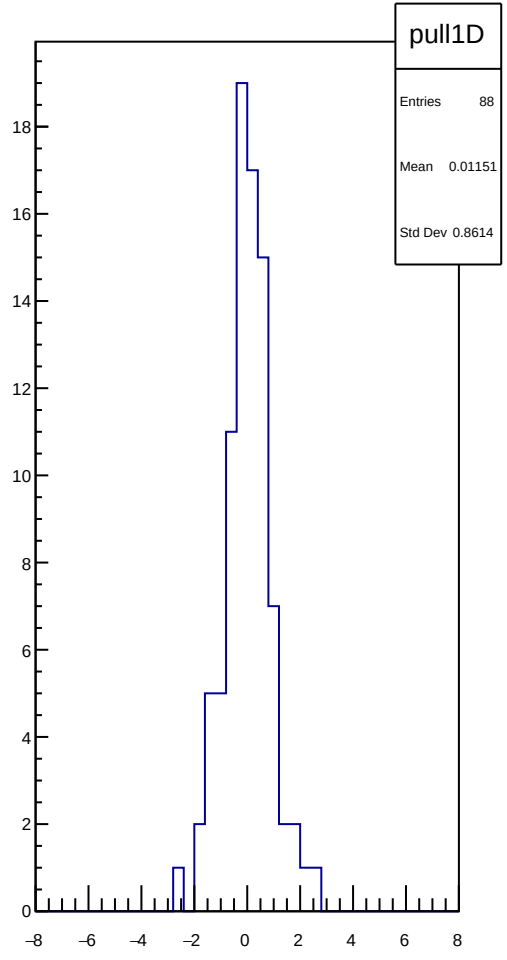

asym_sam7_dit_correction_rms vs run
χ² / ndf 2.222e+04 / 87
p0 856.1 ± 0.6624
1050
1000
950
900
850
800
750
700
650

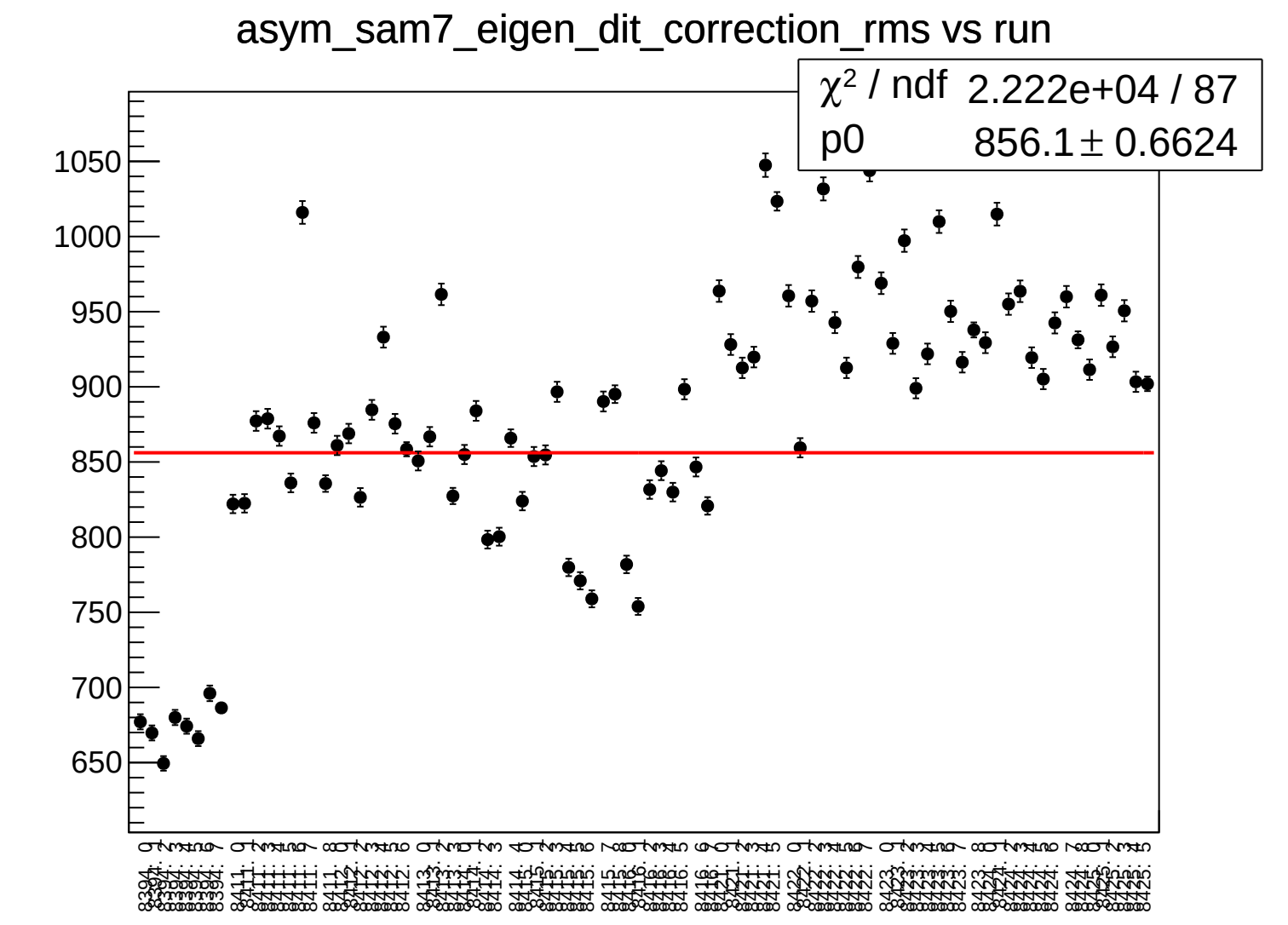

eigen_dit_asym_sam7_mean vs run
χ² / ndf 82.76 / 87
p0 179.3 ± 90.44
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 443.6
Std Dev 0
2
1
0
−1
−2

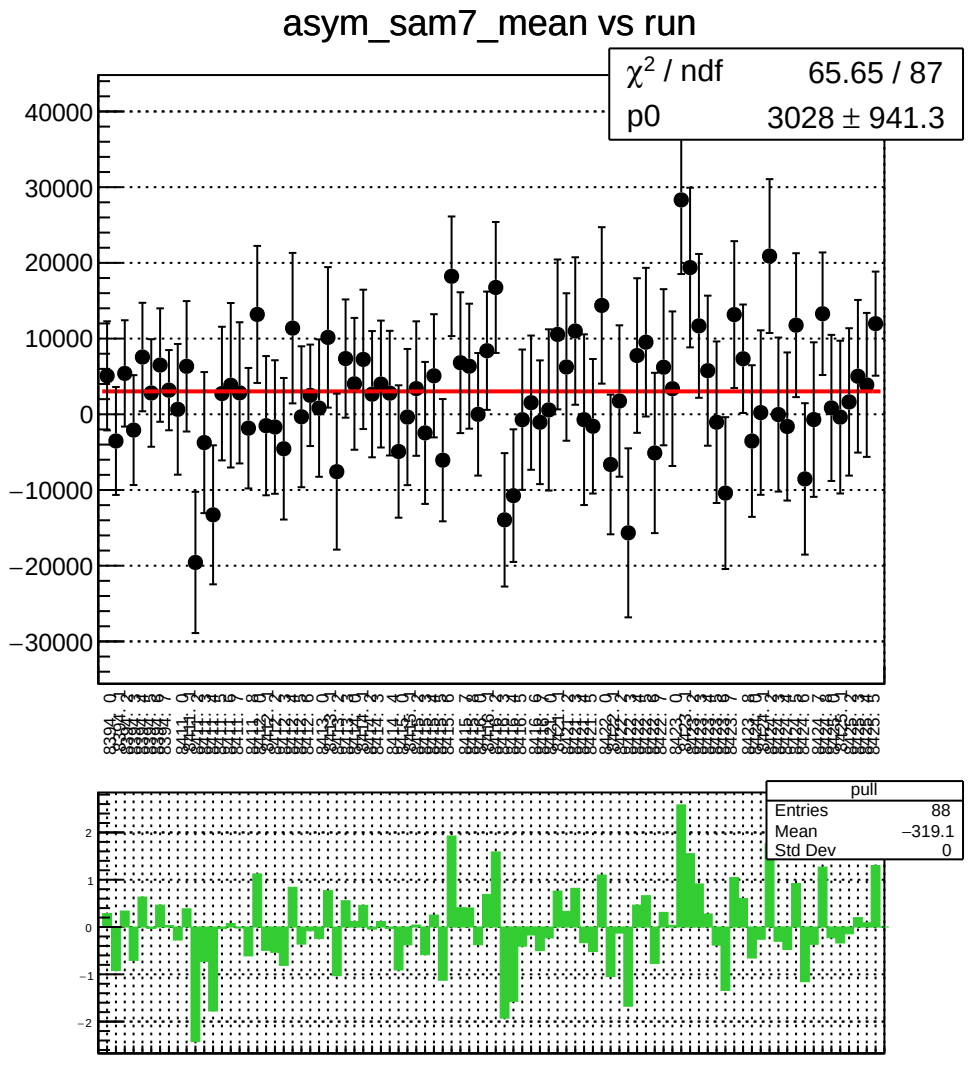

pull1D
Entries 88
Mean 0.001564
Std Dev 0.9698
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

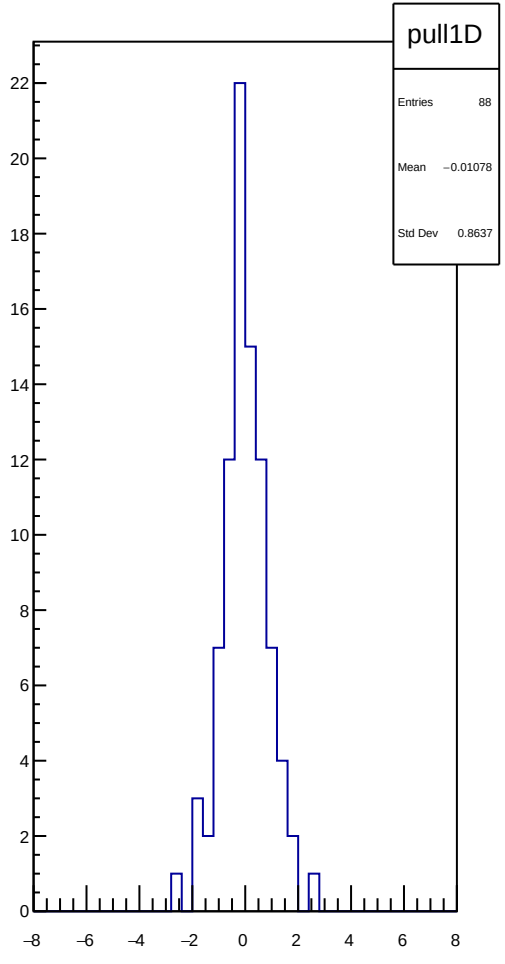

eigen_dit_asym_sam7_rms vs run
χ² / ndf 6748 / 87
p0 83.04 ± 0.06395
105
100
95
90
85
80
75

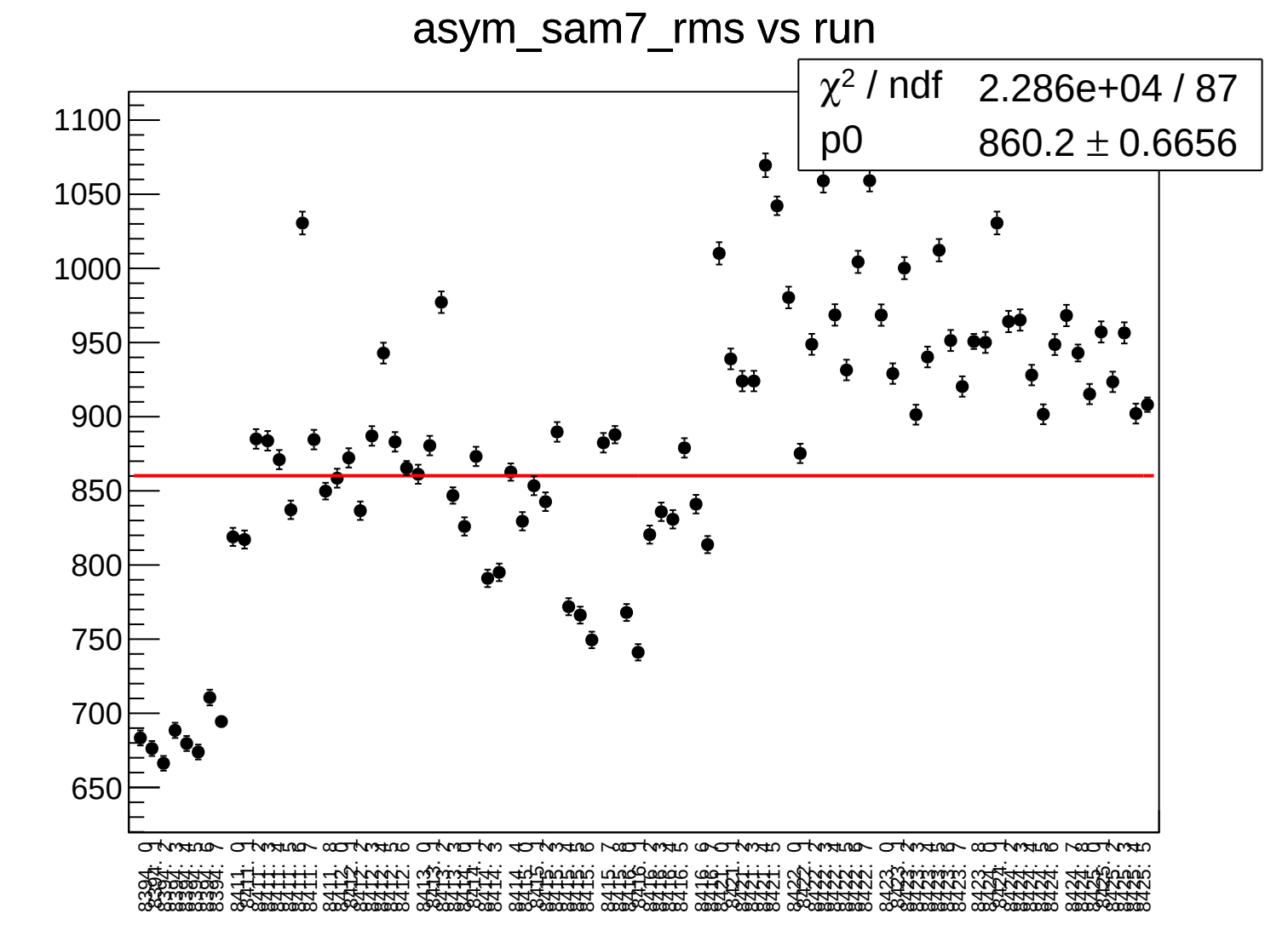

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 65.31 / 87
p0 −2855 ± 936.7
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −289.6
Std Dev 0
2
1
0
−1
−2

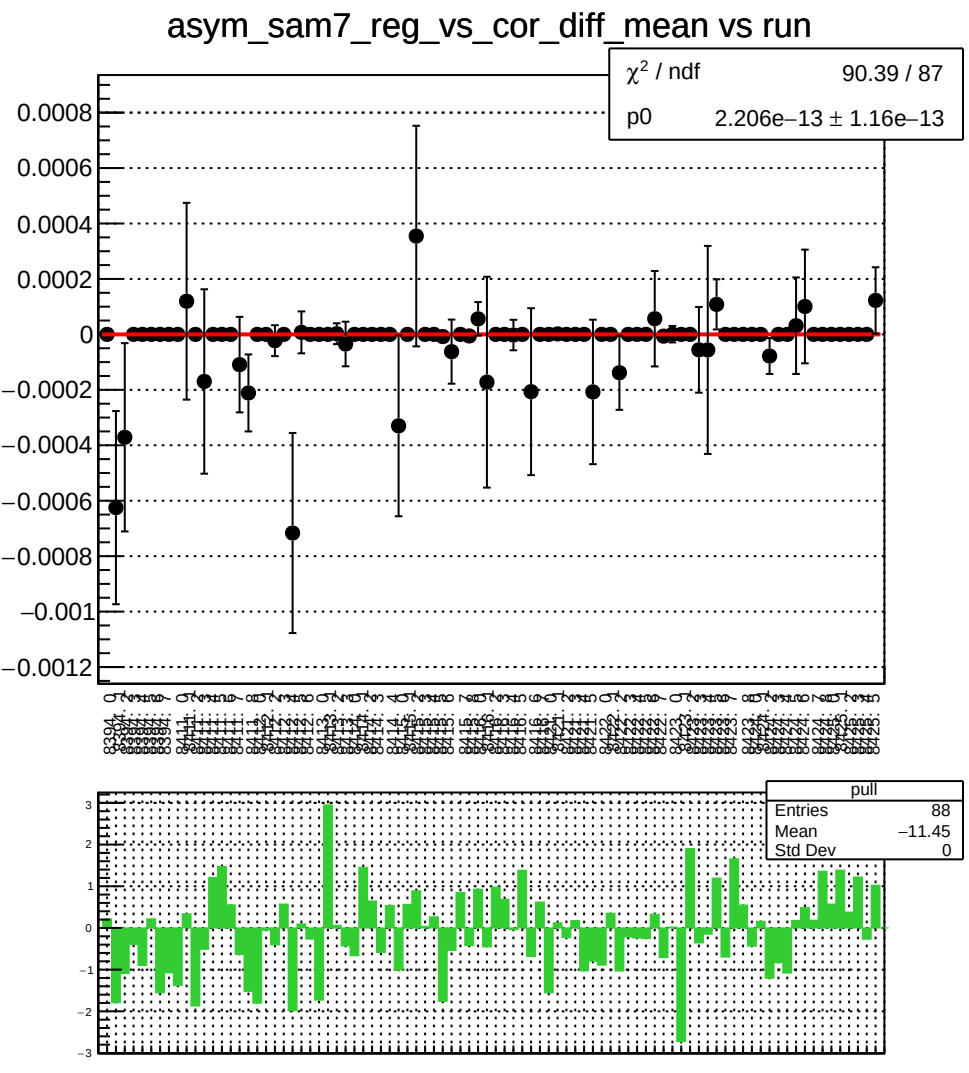

pull1D
Entries 88
Mean 0.01151
Std Dev 0.8614
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

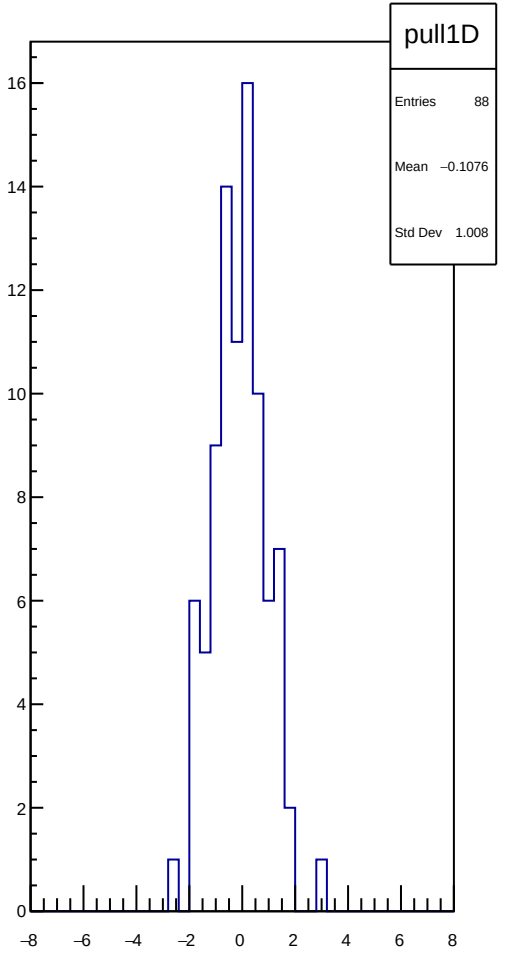

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 2.222e+04 / 87
p0 856.1 ± 0.6624
1050
1000
950
900
850
800
750
700
650

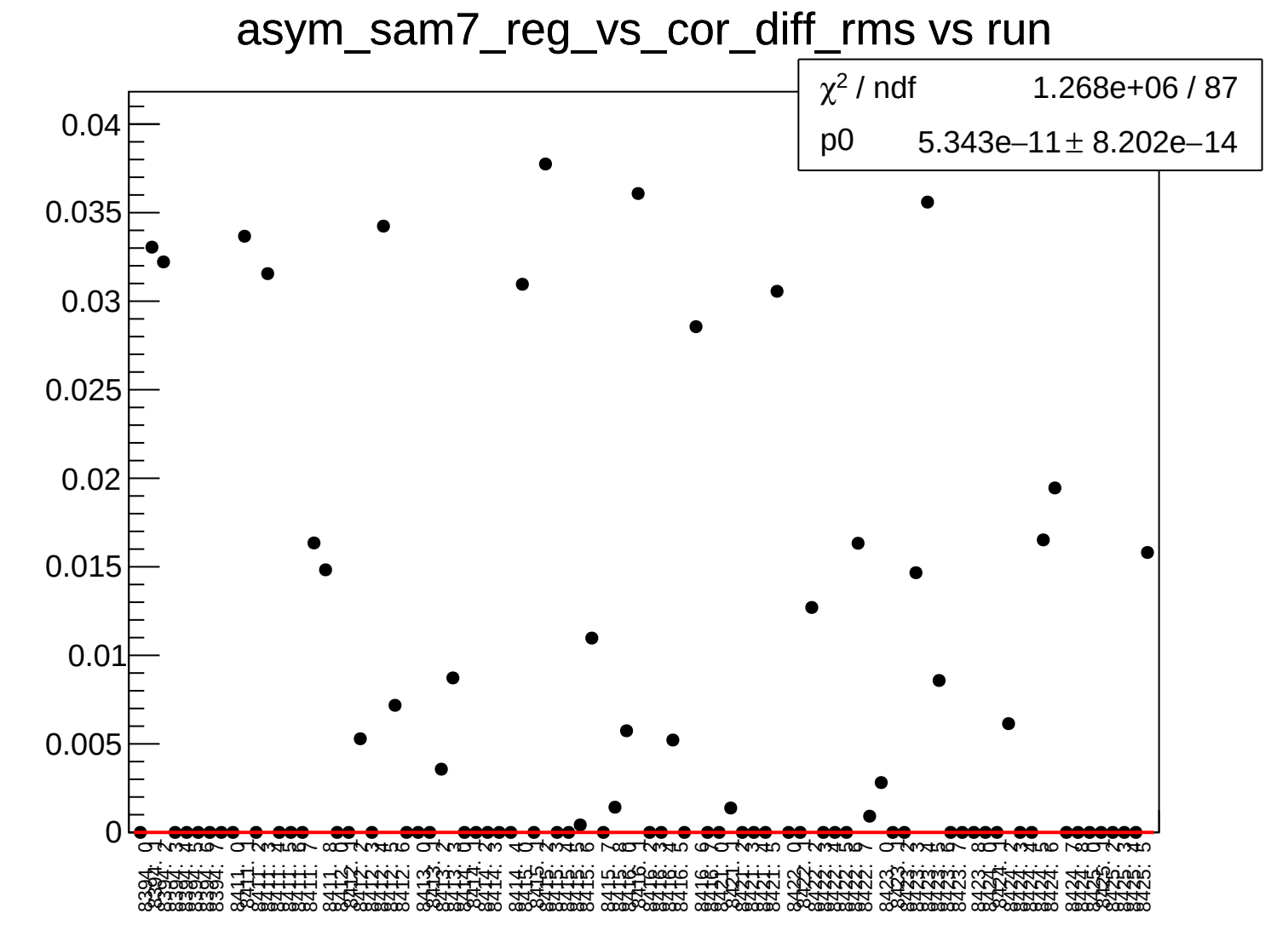

asym_sam7_mean vs run
χ² / ndf 65.65 / 87
p0 3028 ± 941.3
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −319.1
Std Dev 0
2
1
0
−1
−2

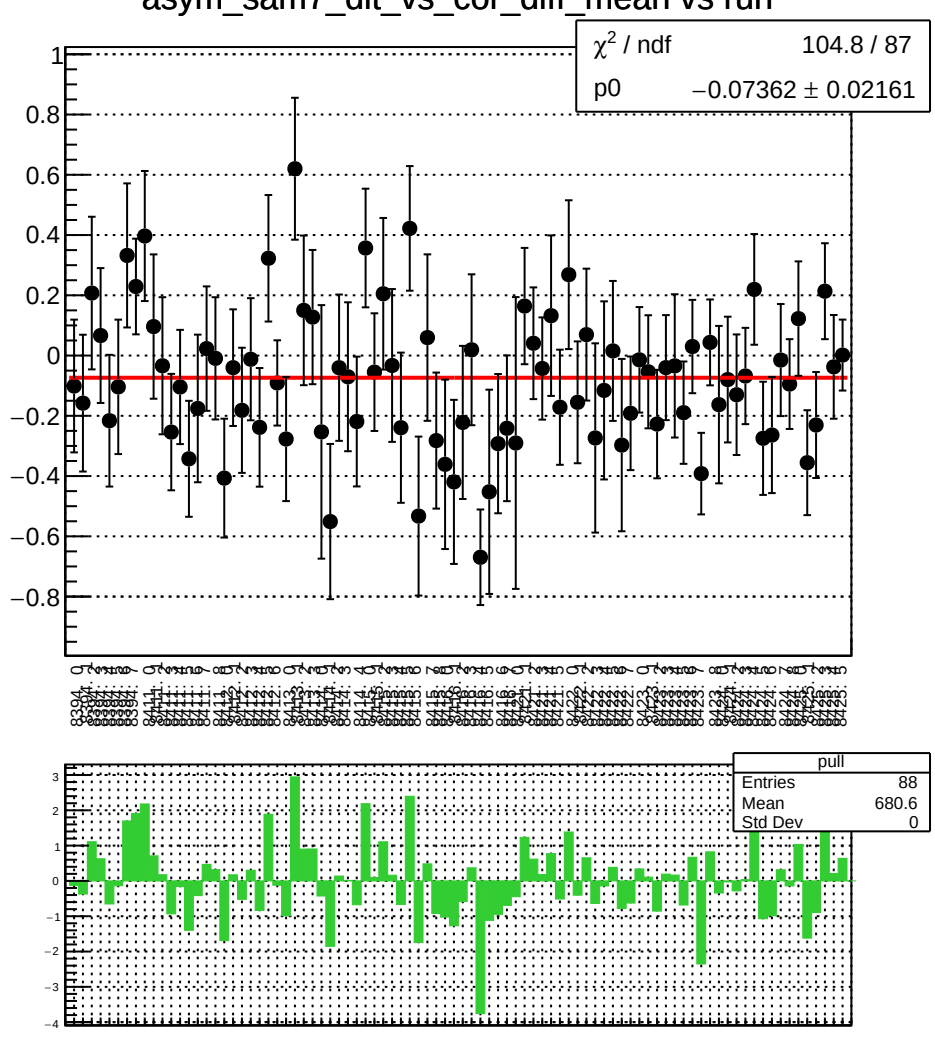

pull1D
Entries 88
Mean −0.01078
Std Dev 0.8637
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

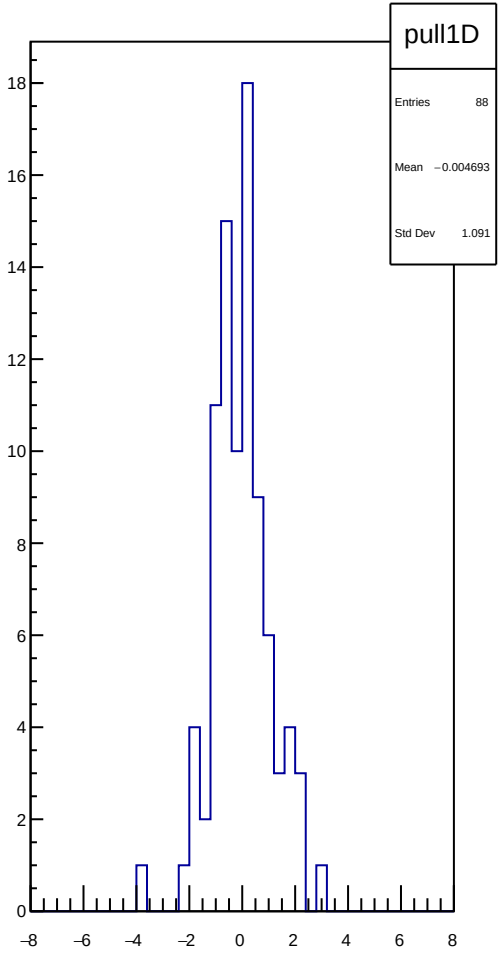

asym_sam7_rms vs run
χ² / ndf 2.286e+04 / 87
p0 860.2 ± 0.6656
1100
1050
1000
950
900
850
800
750
700
650

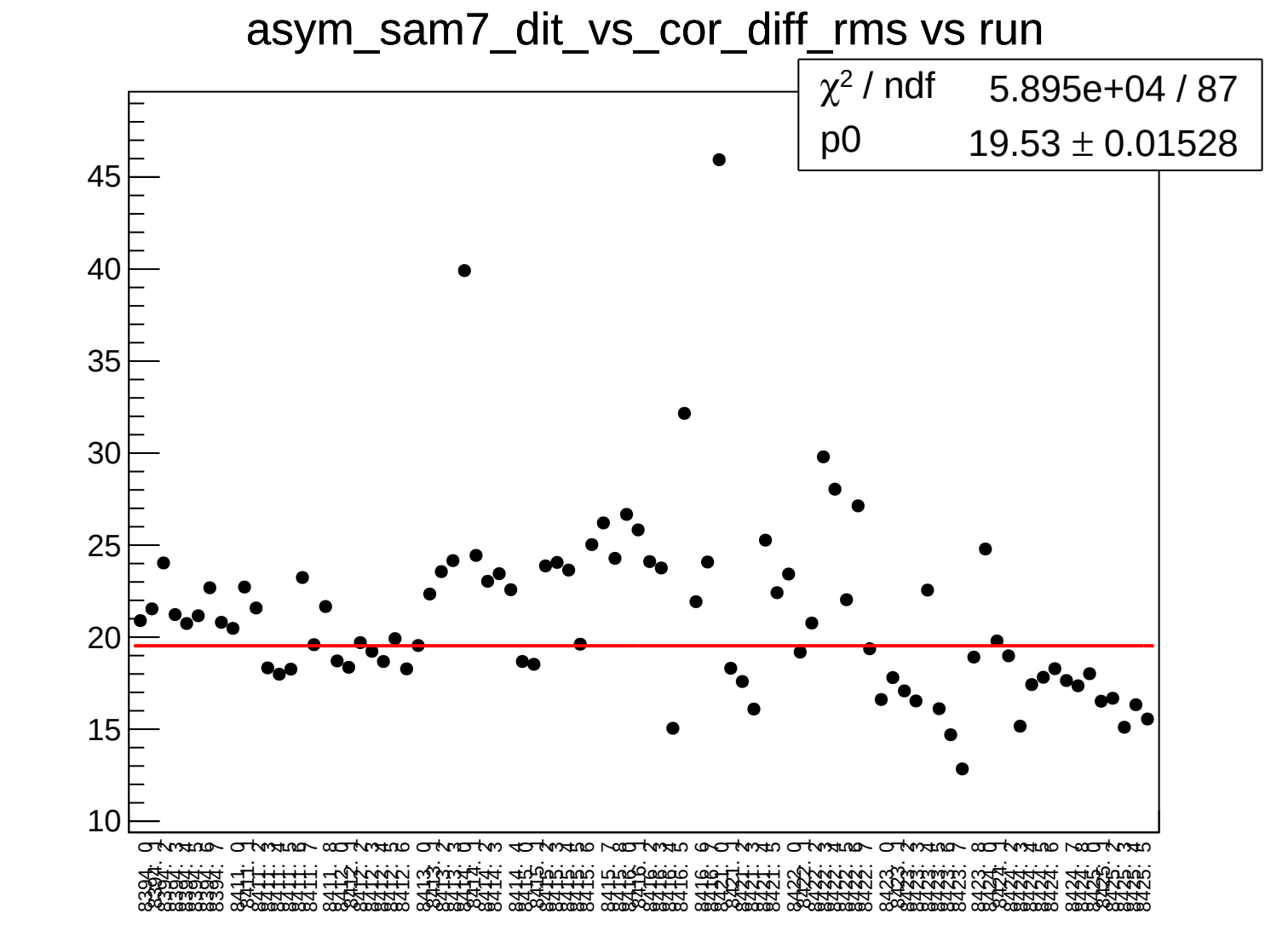

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 90.39 / 87
p0 2.206e−13 ± 1.16e−13
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 88
Mean −11.45
Std Dev 0
3
2
1
0
−1
−2
−3

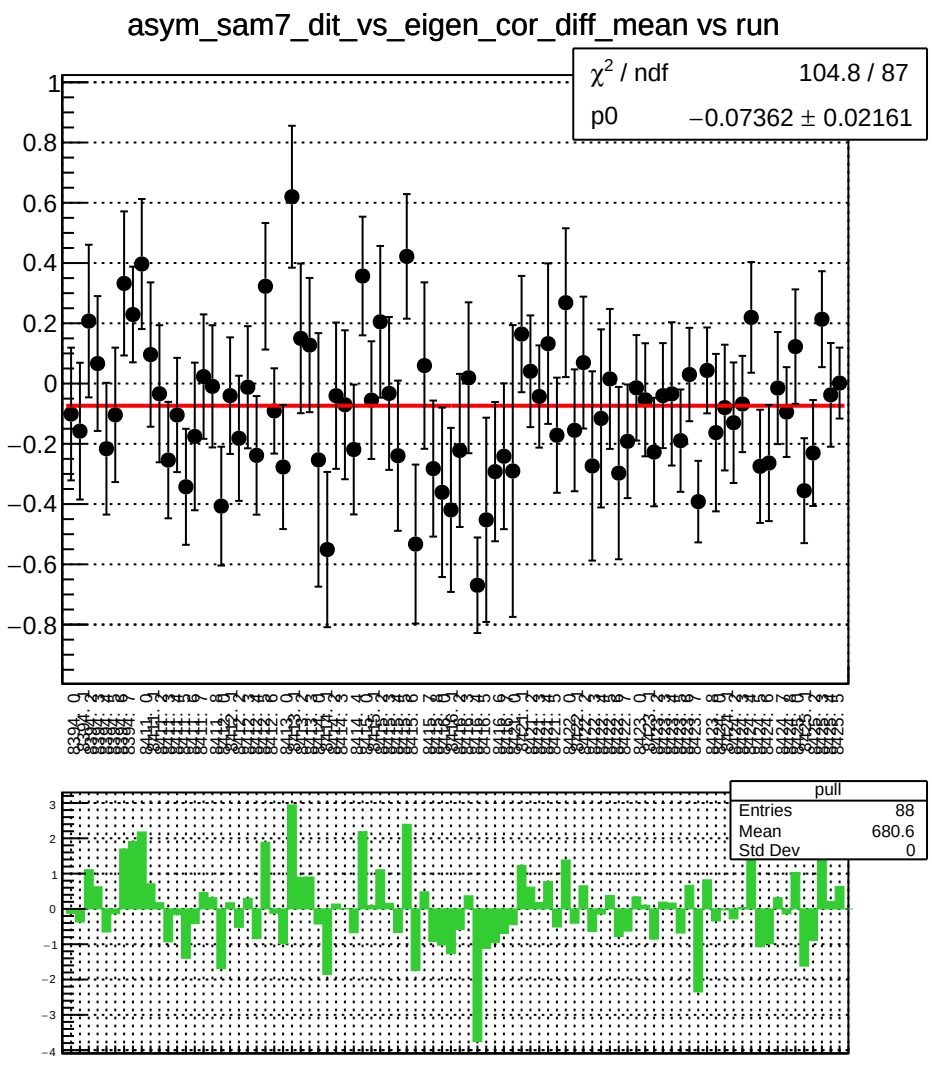

pull1D
Entries 88
Mean −0.1076
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

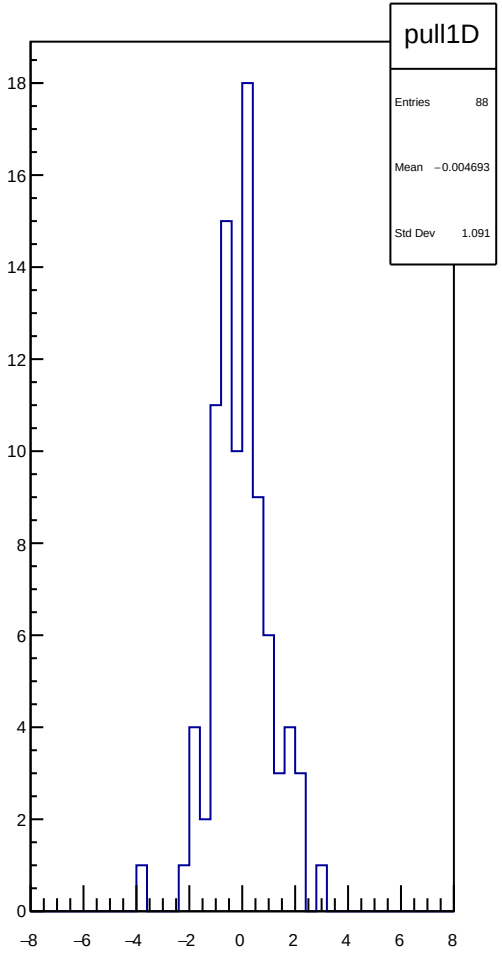

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 1.268e+06 / 87
p0 5.343e−11 ± 8.202e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

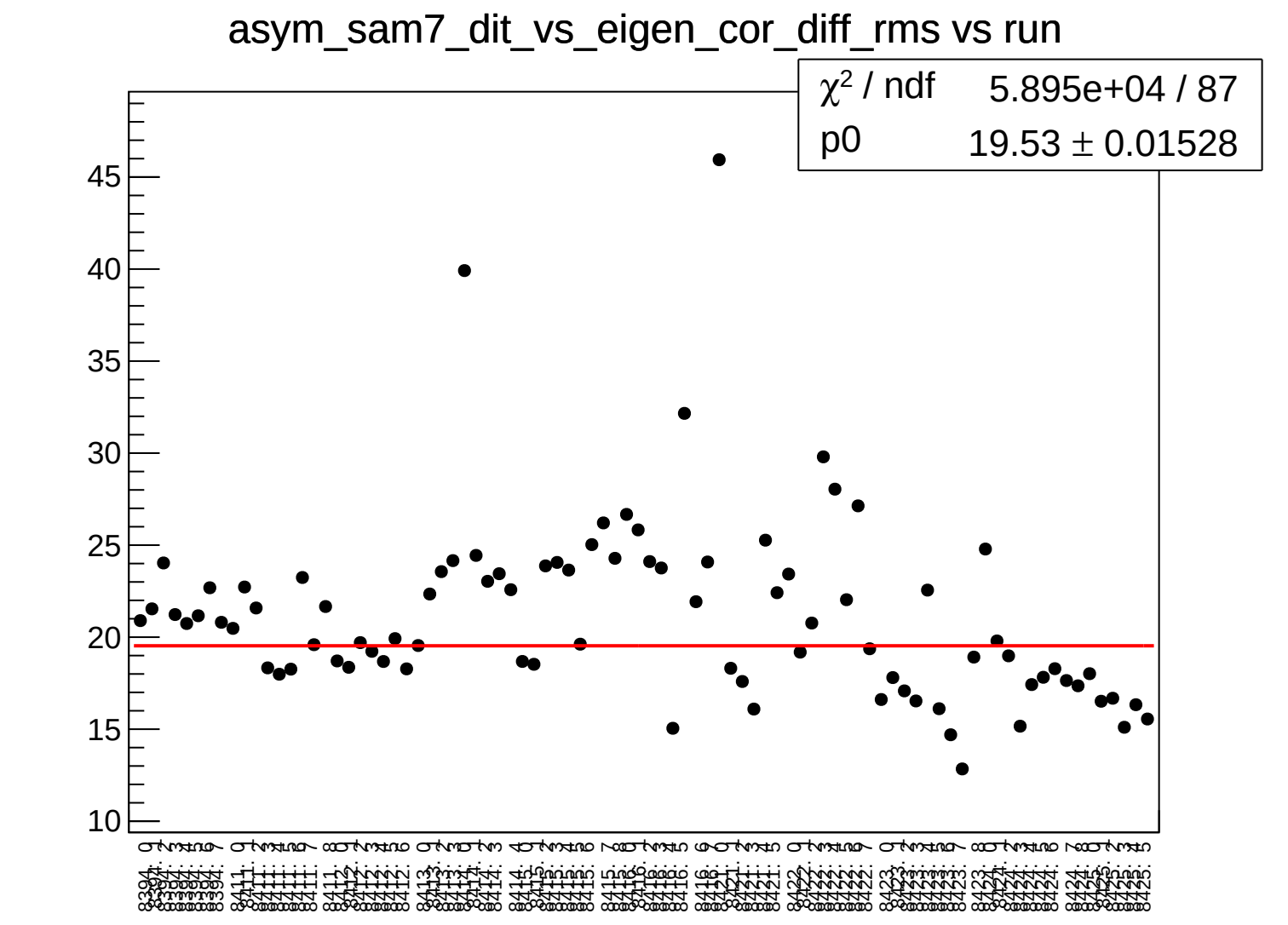

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 104.8 / 87
p0 −0.07362 ± 0.02161
pull
Entries 88
Mean 680.6
Std Dev 0

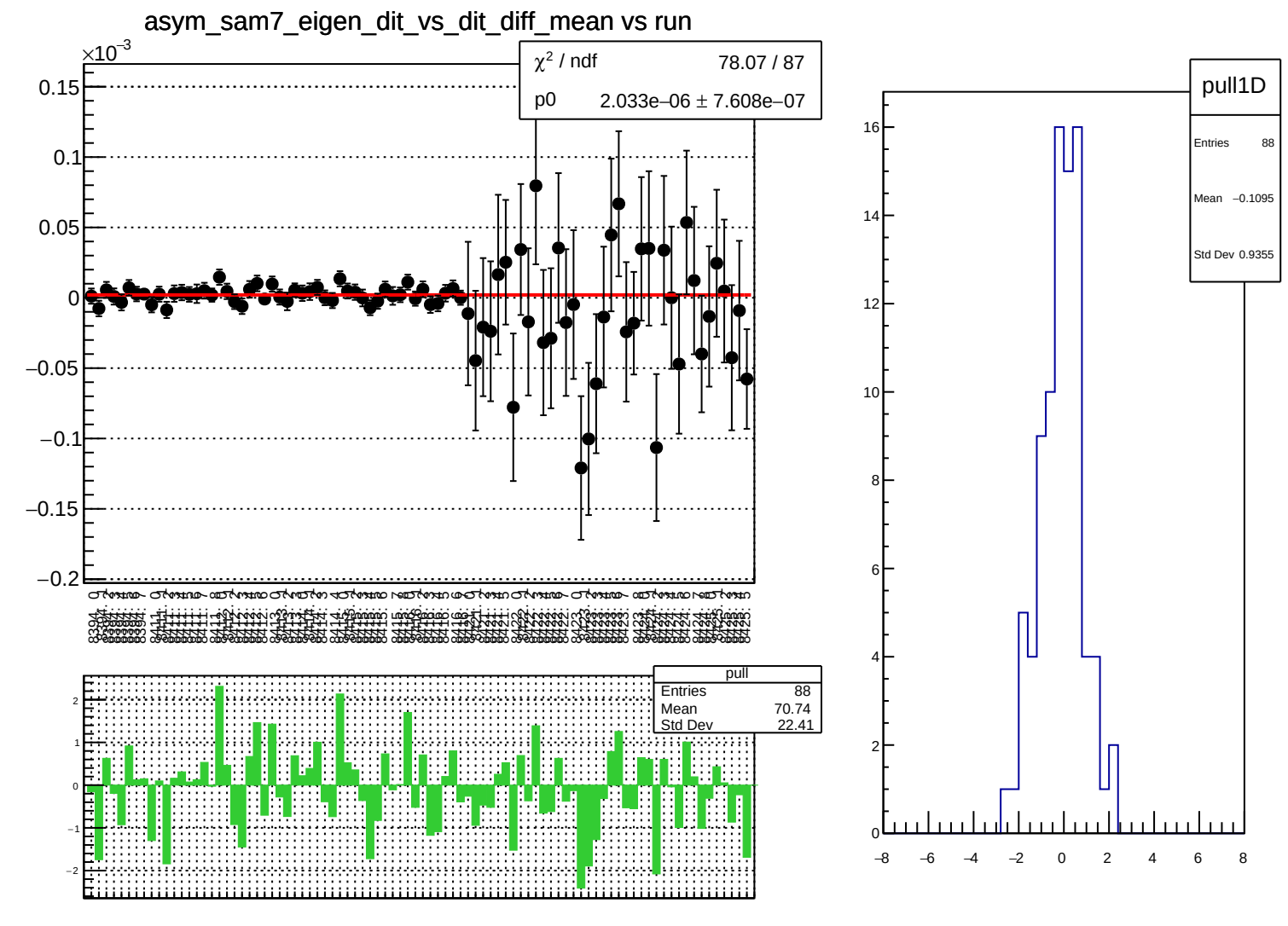

pull1D
Entries 88
Mean −0.004693
Std Dev 1.091

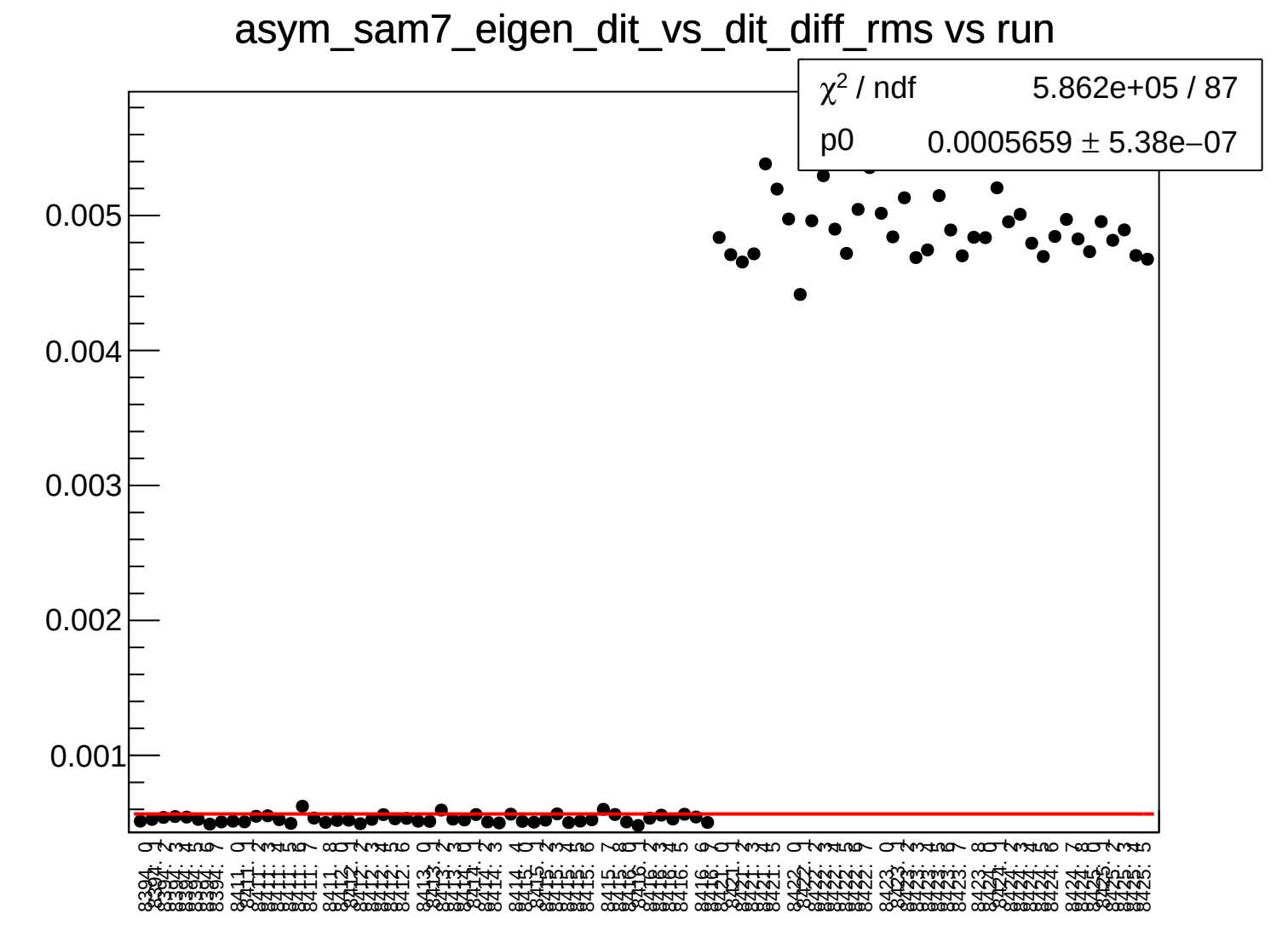

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 5.895e+04 / 87
p0 19.53 ± 0.01528
45
40
35
30
25
20
15
10

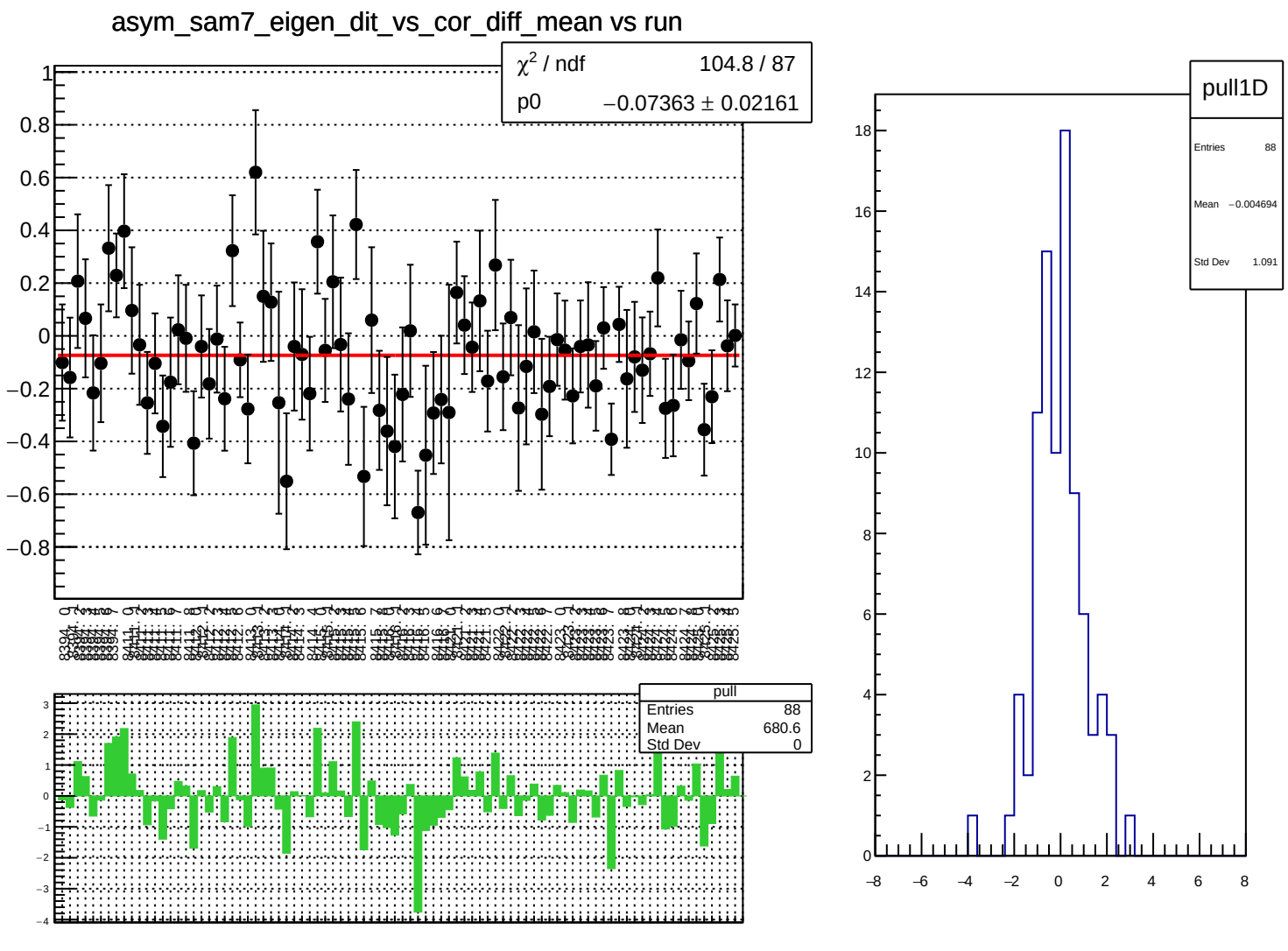

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.8 / 87
p0 −0.07362 ± 0.02161
pull
Entries 88
Mean 680.6
Std Dev 0

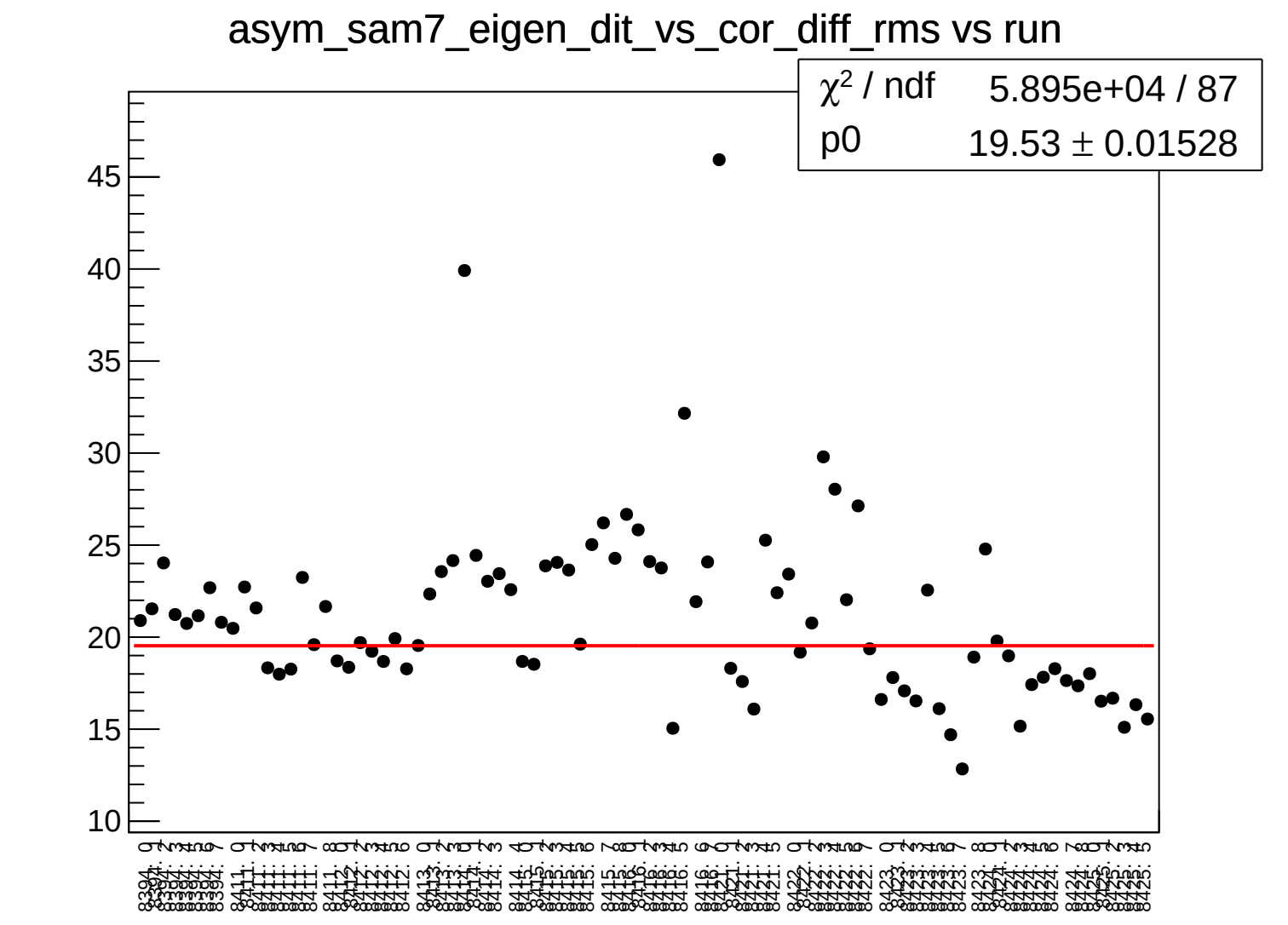

pull1D
Entries 88
Mean −0.004693
Std Dev 1.091

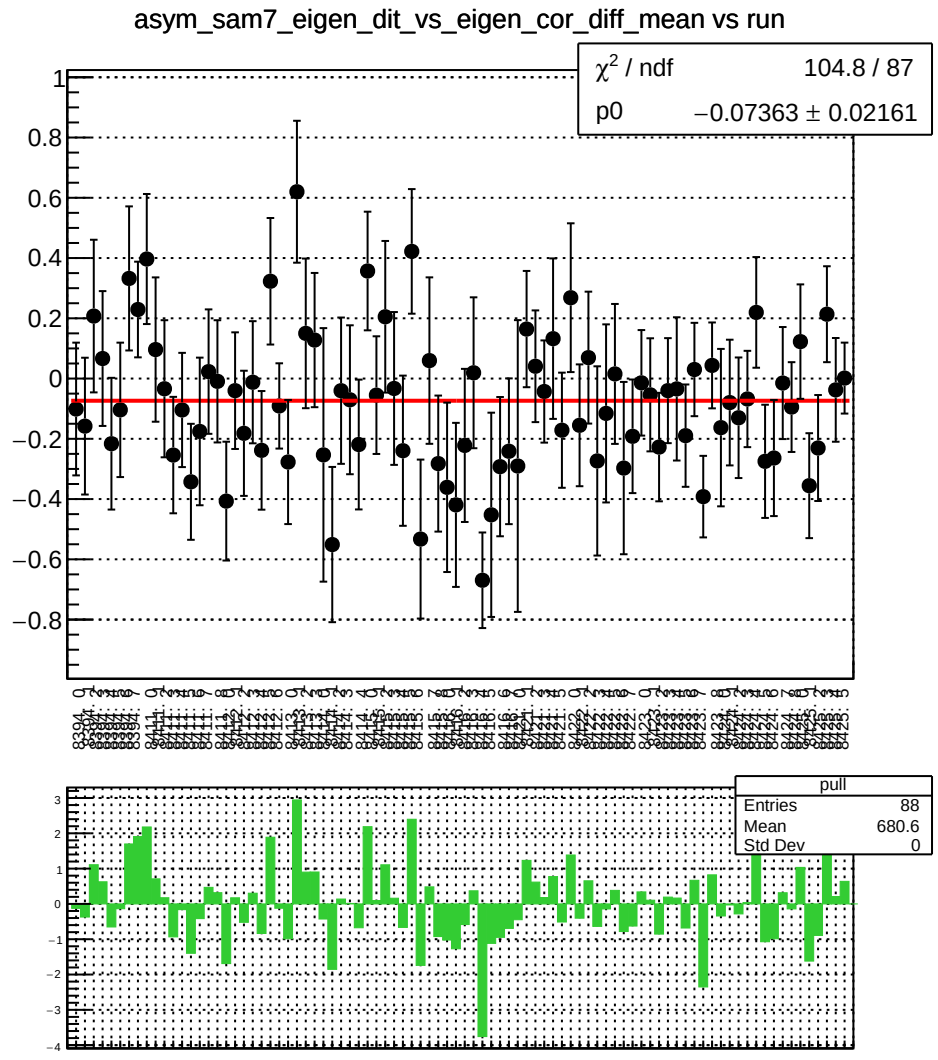

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.895e+04 / 87
p0 19.53 ± 0.01528
45
40
35
30
25
20
15
10

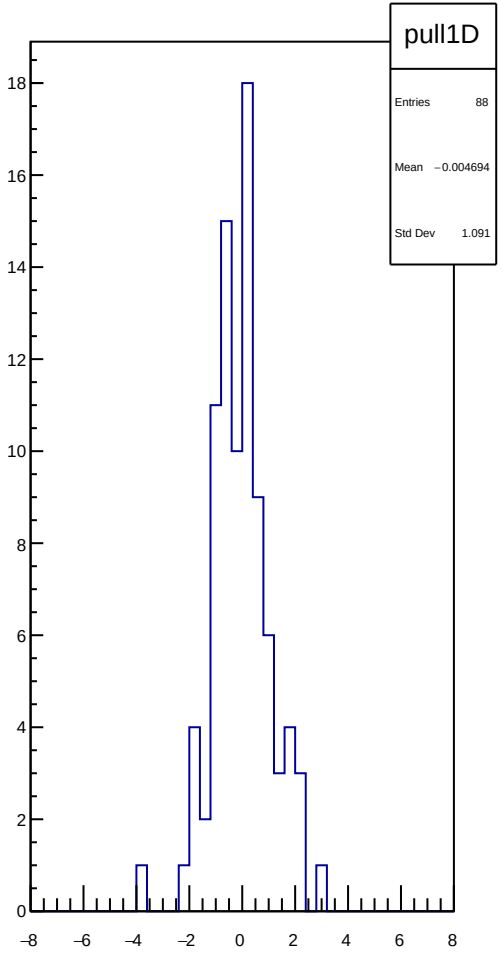

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.07 / 87
p0 2.033e−06 ± 7.608e−07
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 88
Mean 70.74
Std Dev 22.41
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.1095
Std Dev 0.9355
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

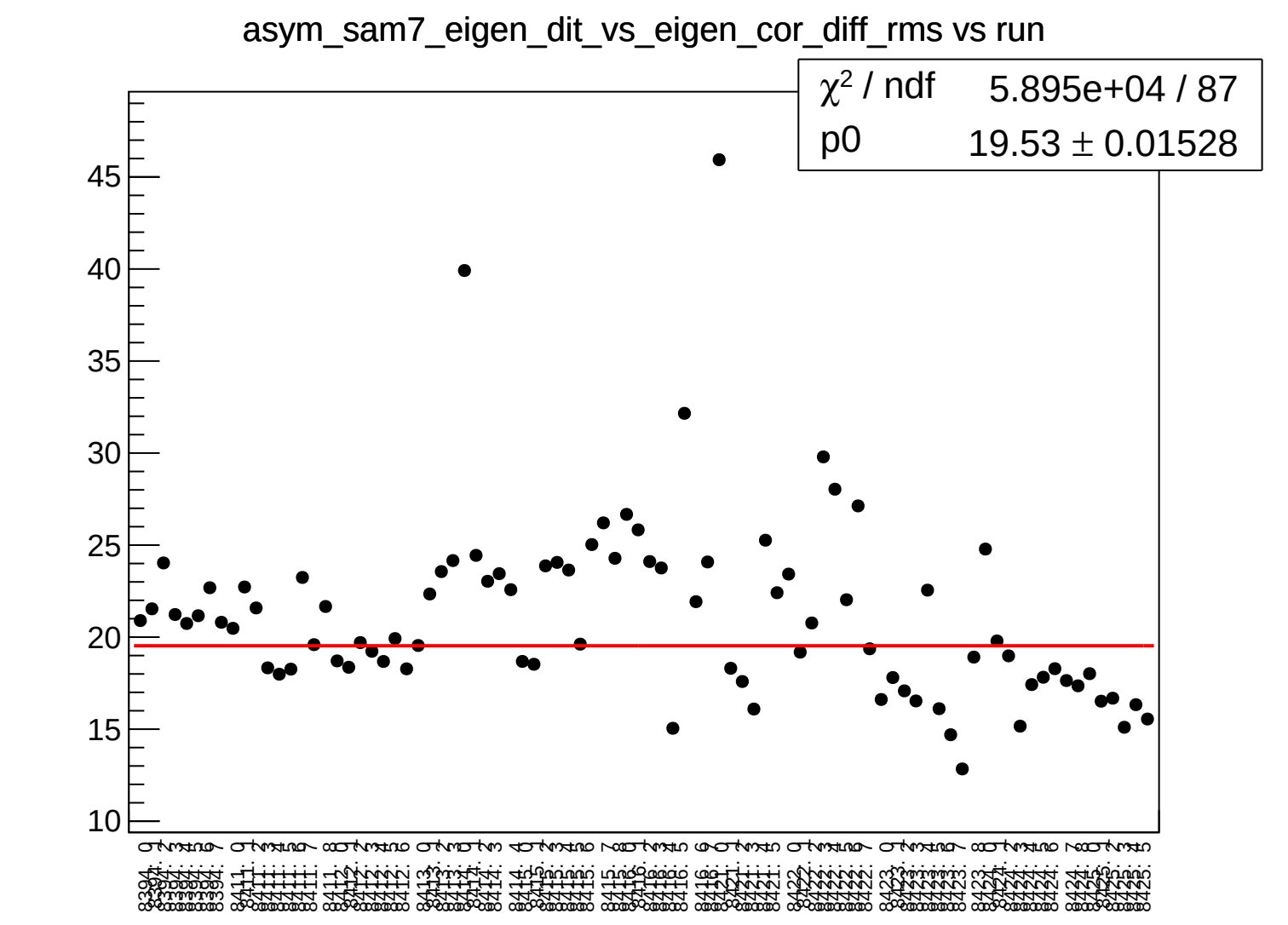

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.862e+05 / 87
p0 0.0005659 ± 5.38e−07
0.005
0.004
0.003
0.002
0.001

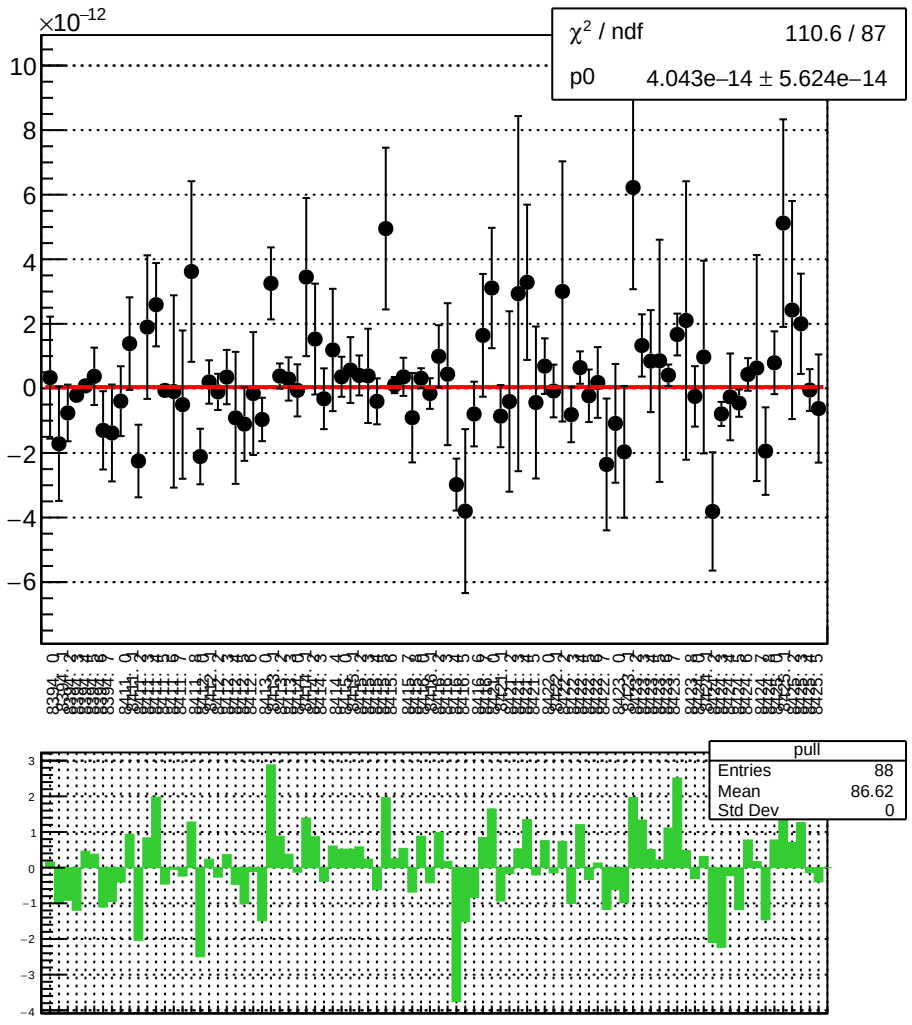

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.8 / 87
p0 −0.07363 ± 0.02161
pull
Entries 88
Mean 680.6
Std Dev 0
pull1D
Entries 88
Mean −0.004694
Std Dev 1.091

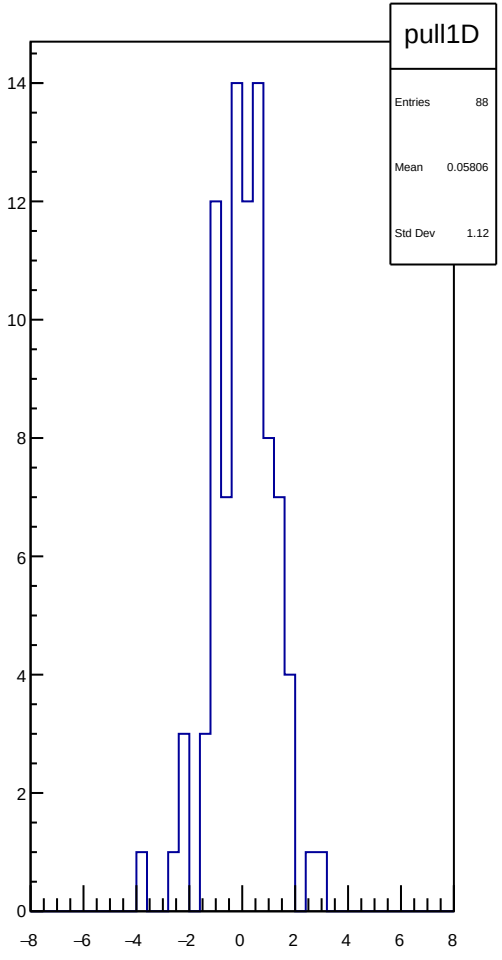

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.895e+04 / 87
p0 19.53 ± 0.01528
45
40
35
30
25
20
15
10

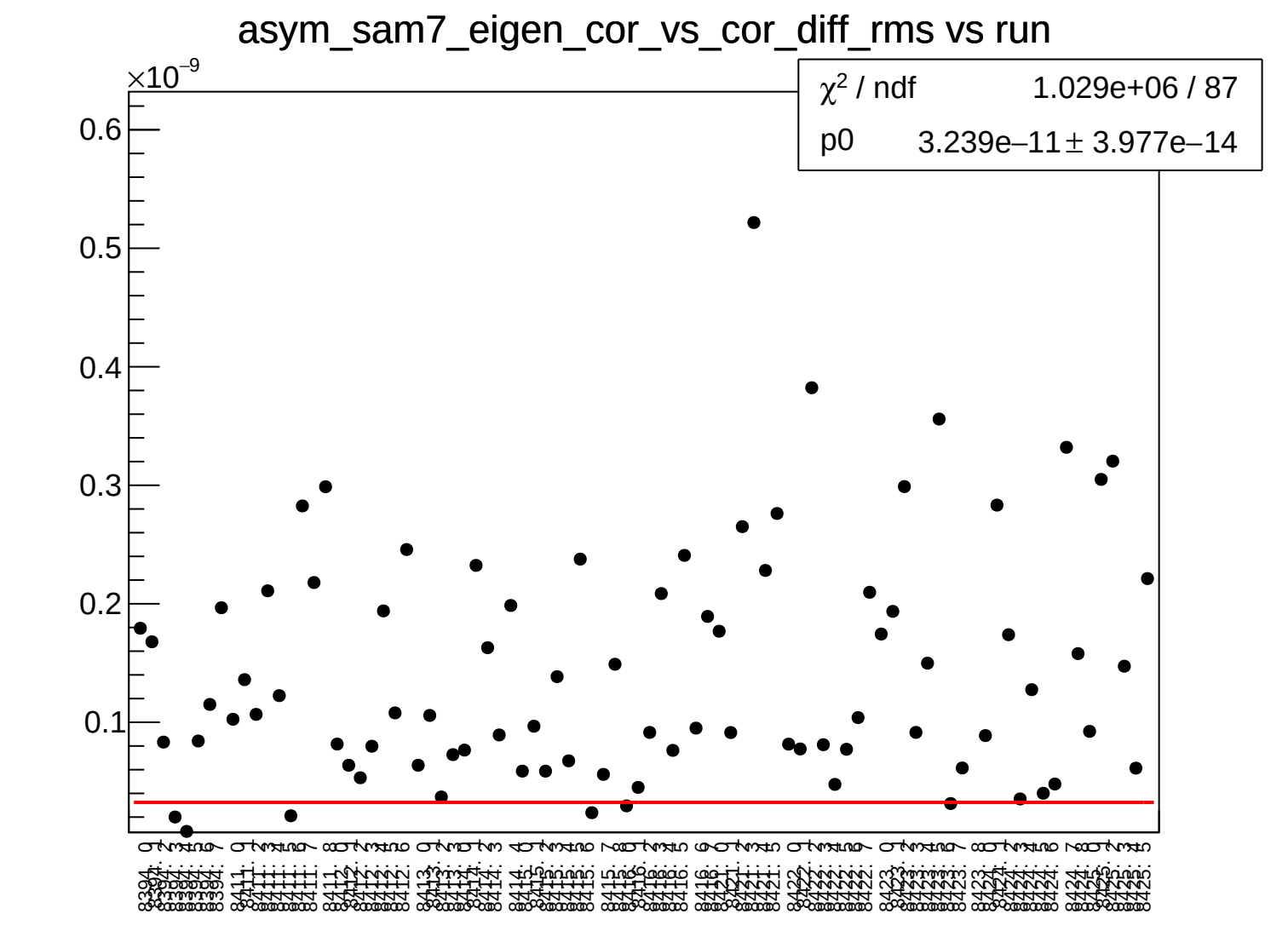

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.8 / 87
p0 −0.07363 ± 0.02161
pull
Entries 88
Mean 680.6
Std Dev 0

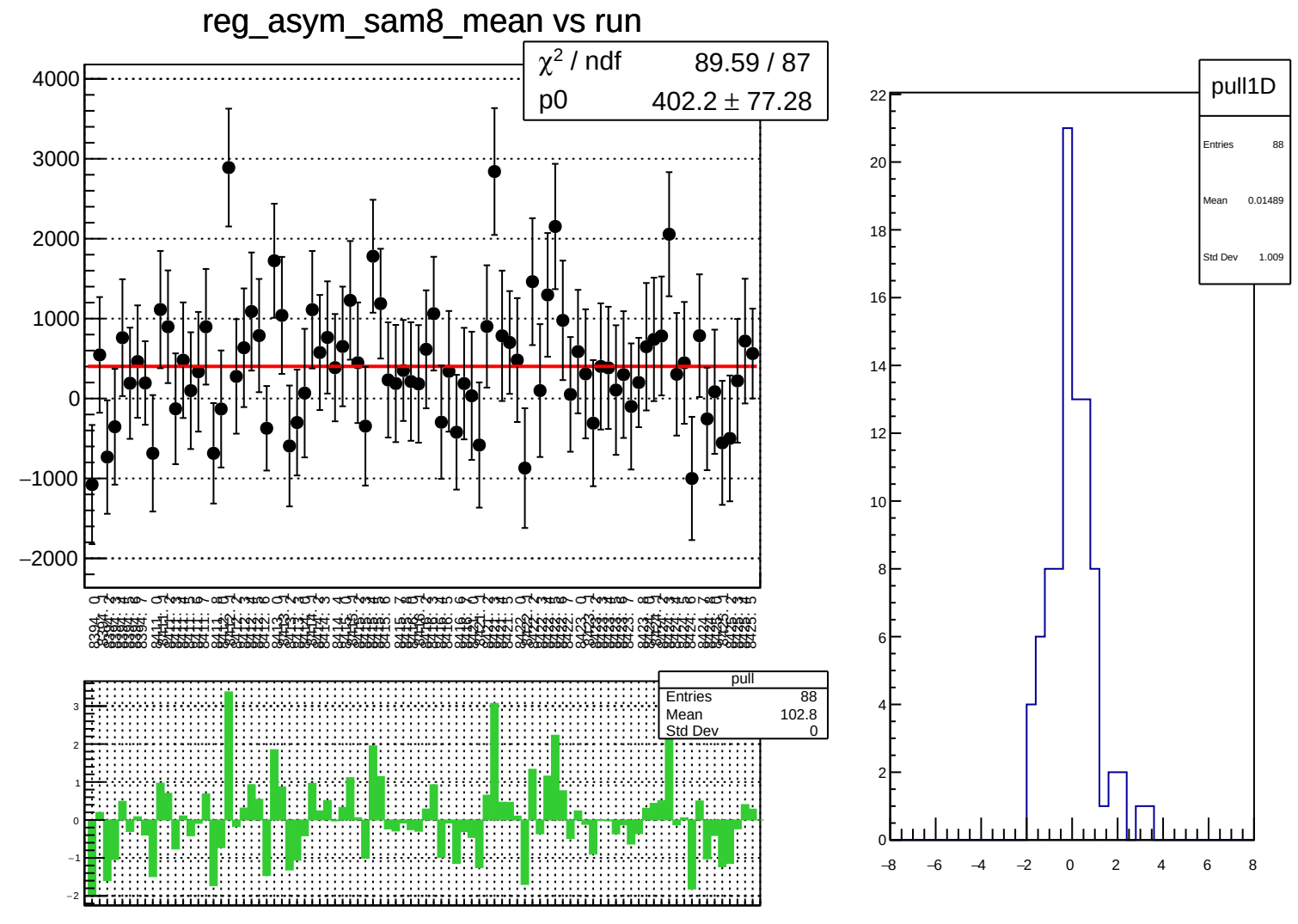

pull1D
Entries 88
Mean −0.004694
Std Dev 1.091


asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.895e+04 / 87
p0 19.53 ± 0.01528
45
40
35
30
25
20
15
10

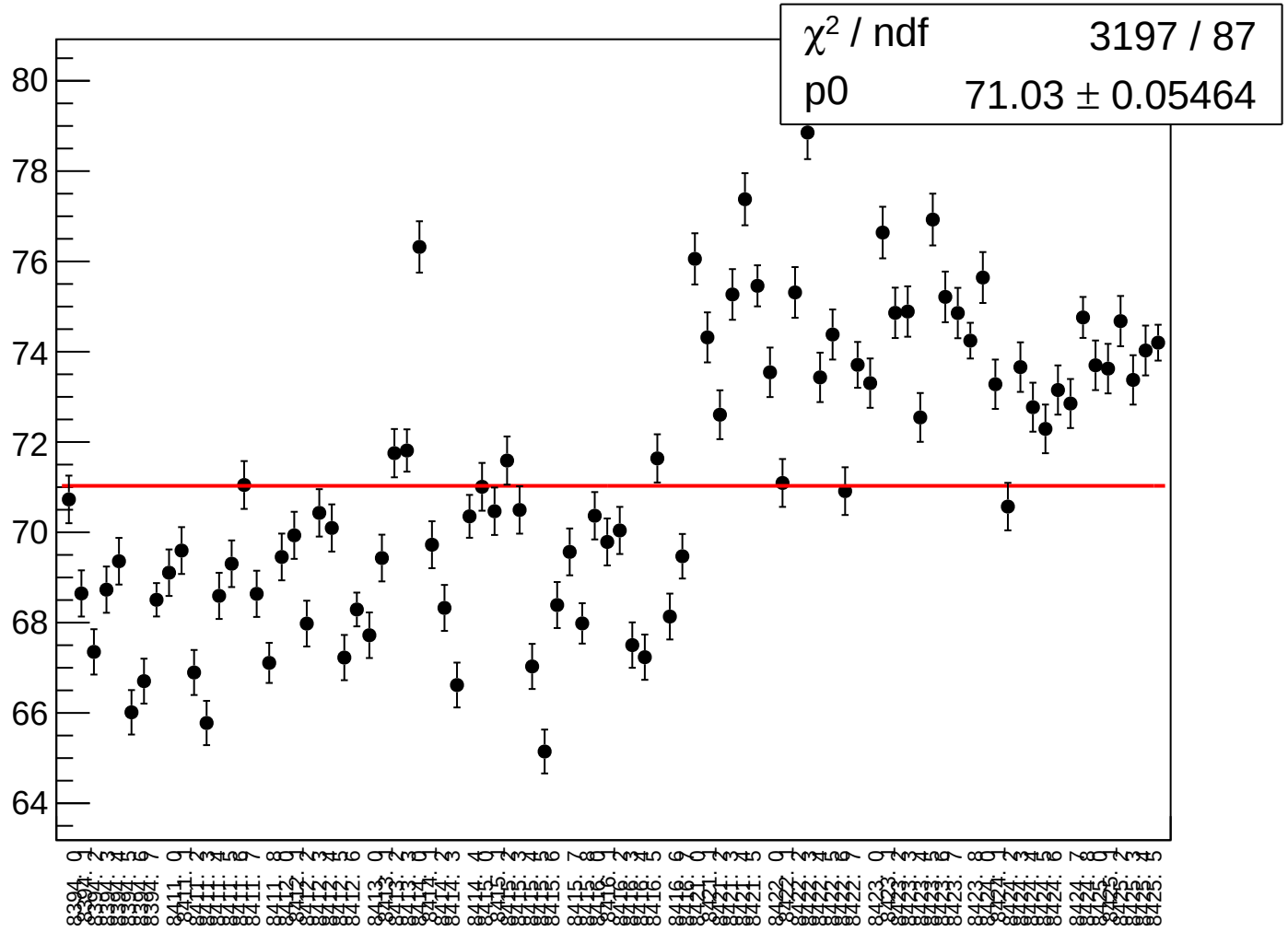

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 110.6 / 87
p0 4.043e−14 ± 5.624e−14
pull
Entries 88
Mean 86.62
Std Dev 0

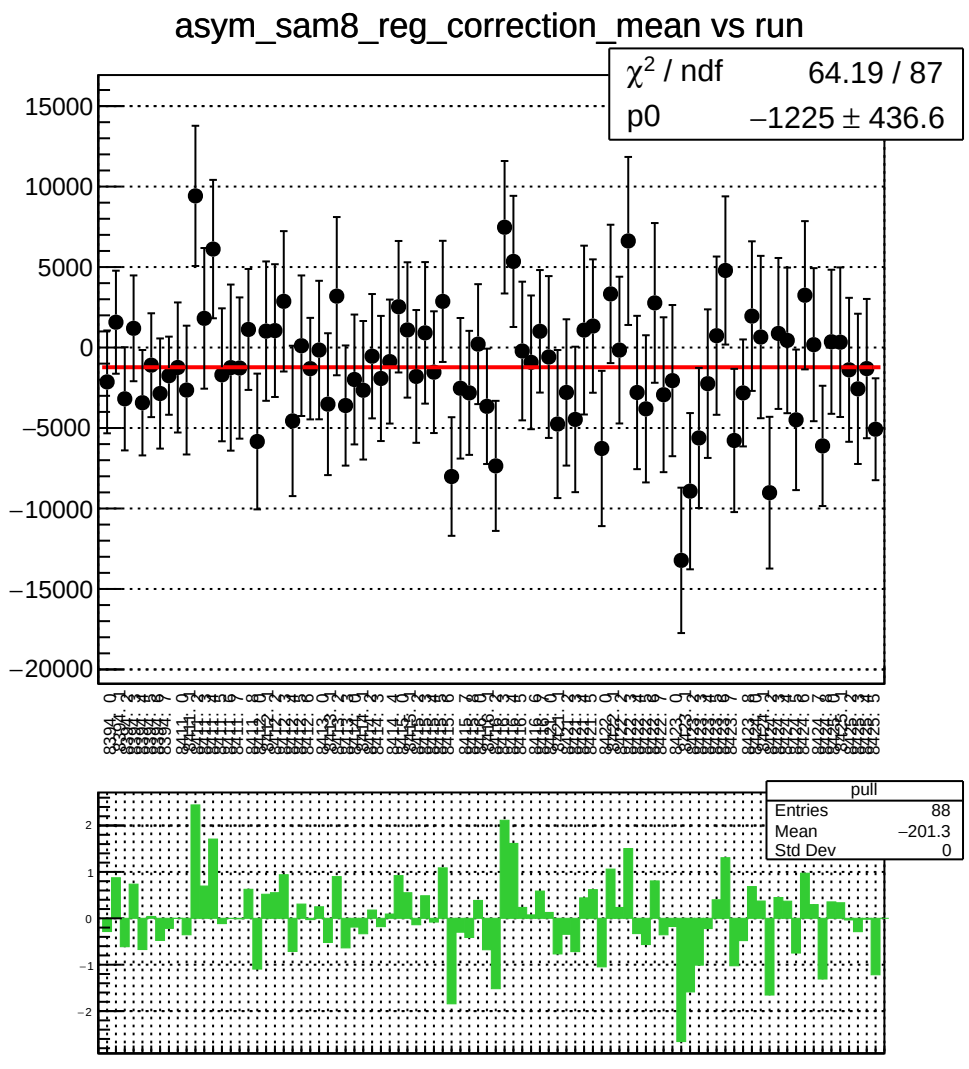

pull1D
Entries 88
Mean 0.05806
Std Dev 1.12

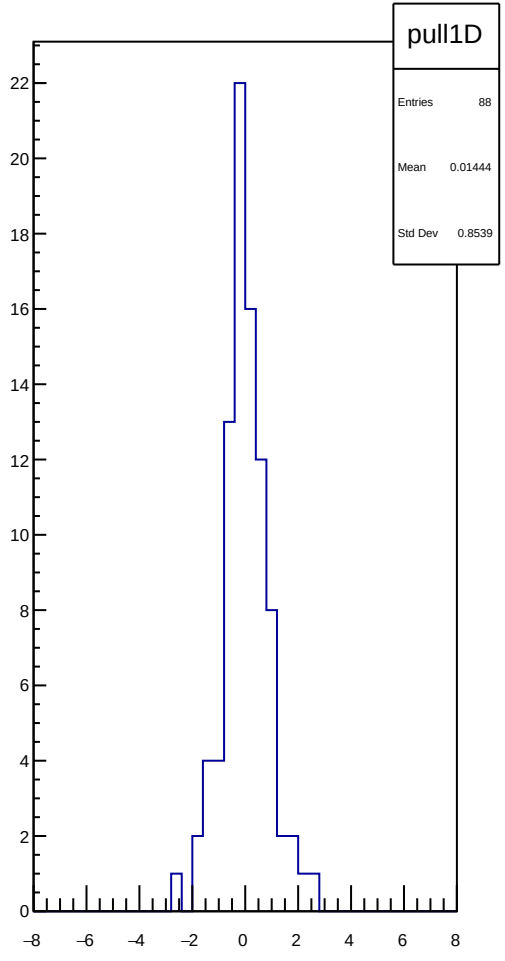

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.029e+06 / 87
p0 3.239e−11 ± 3.977e−14
0.6
0.5
0.4
0.3
0.2
0.1

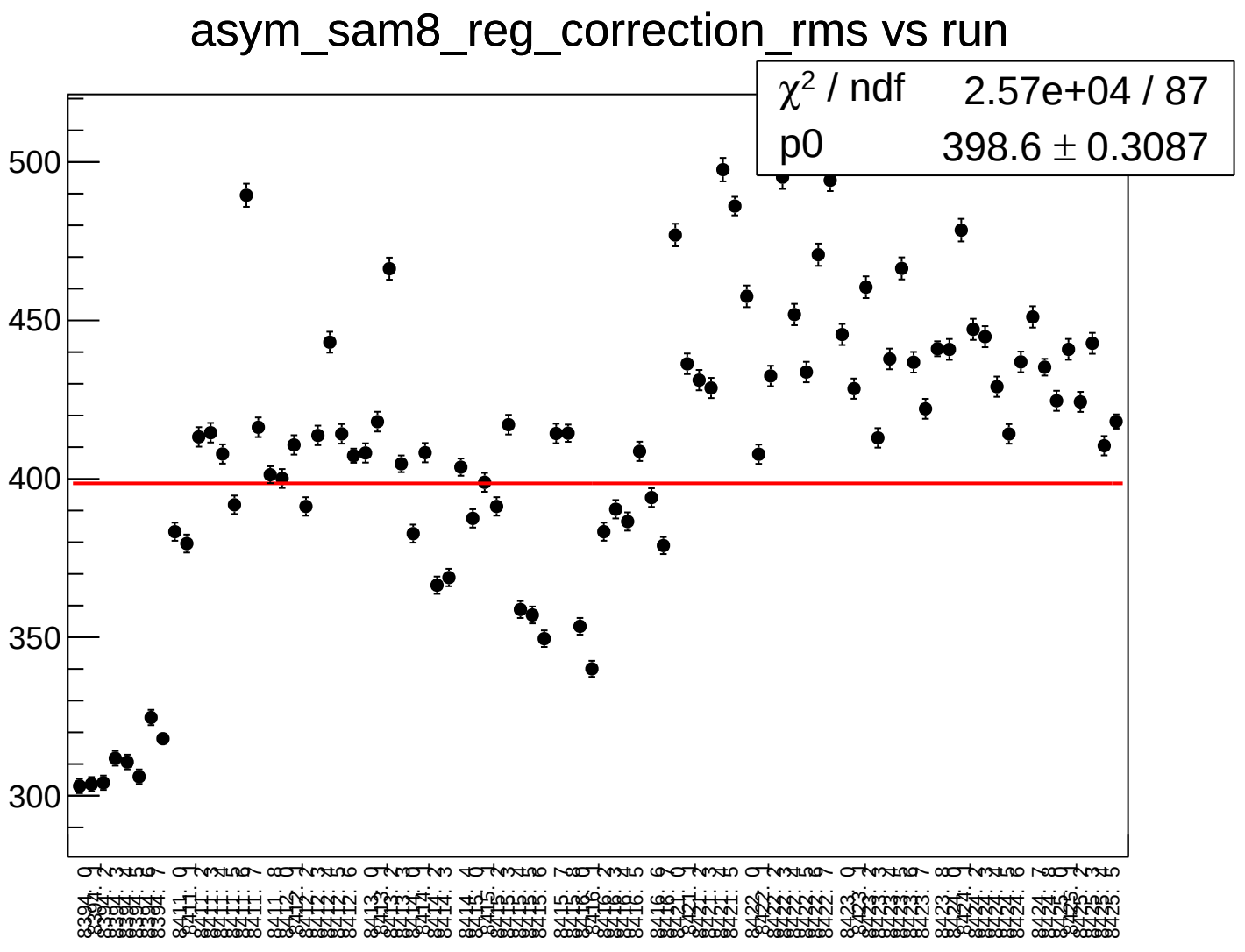

reg_asym_sam8_mean vs run
χ^2 / ndf 89.59 / 87
p0 402.2 ± 77.28
4000
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 102.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01489
Std Dev 1.009
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

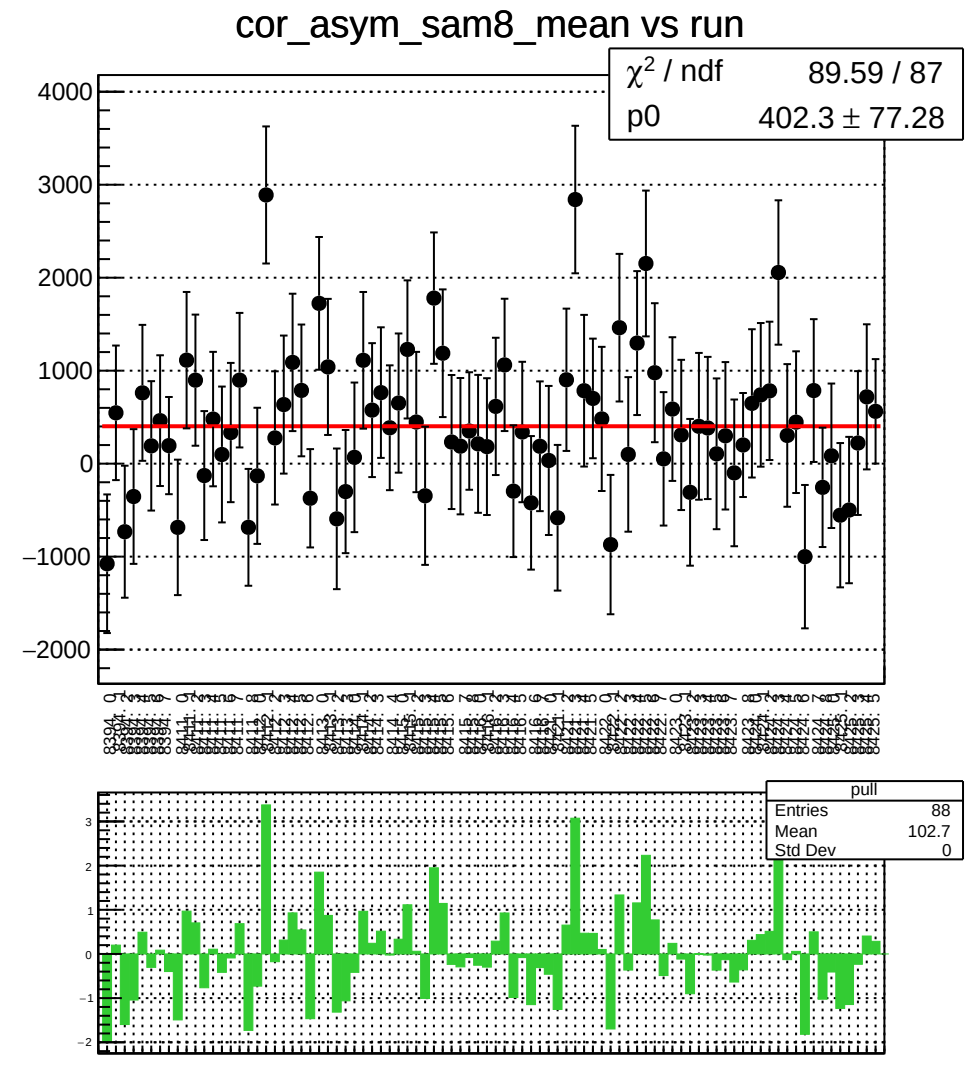
reg_asym_sam8_rms vs run

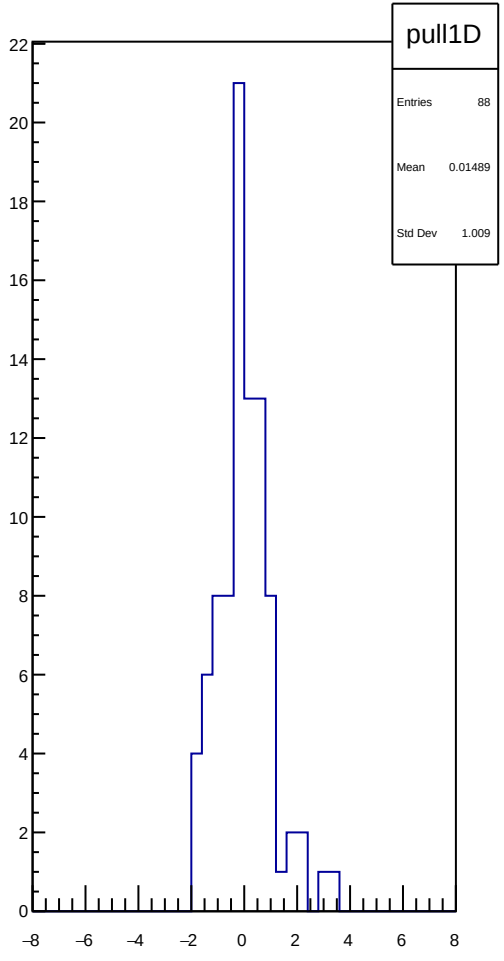


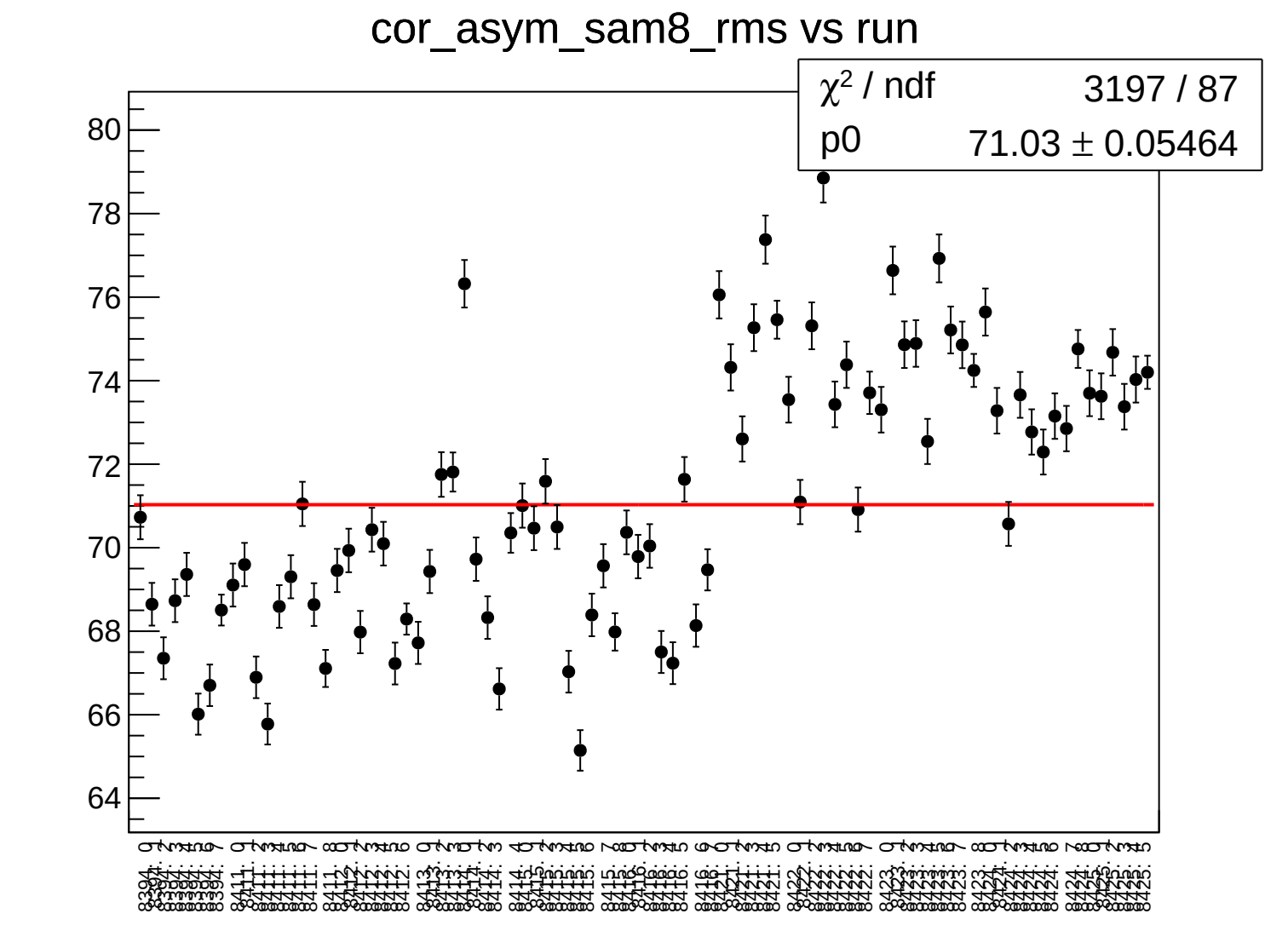

asym_sam8_reg_correction_mean vs run
χ² / ndf 64.19 / 87
p0 −1225 ± 436.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean −201.3
Std Dev 0
2
1
0
−1
−2

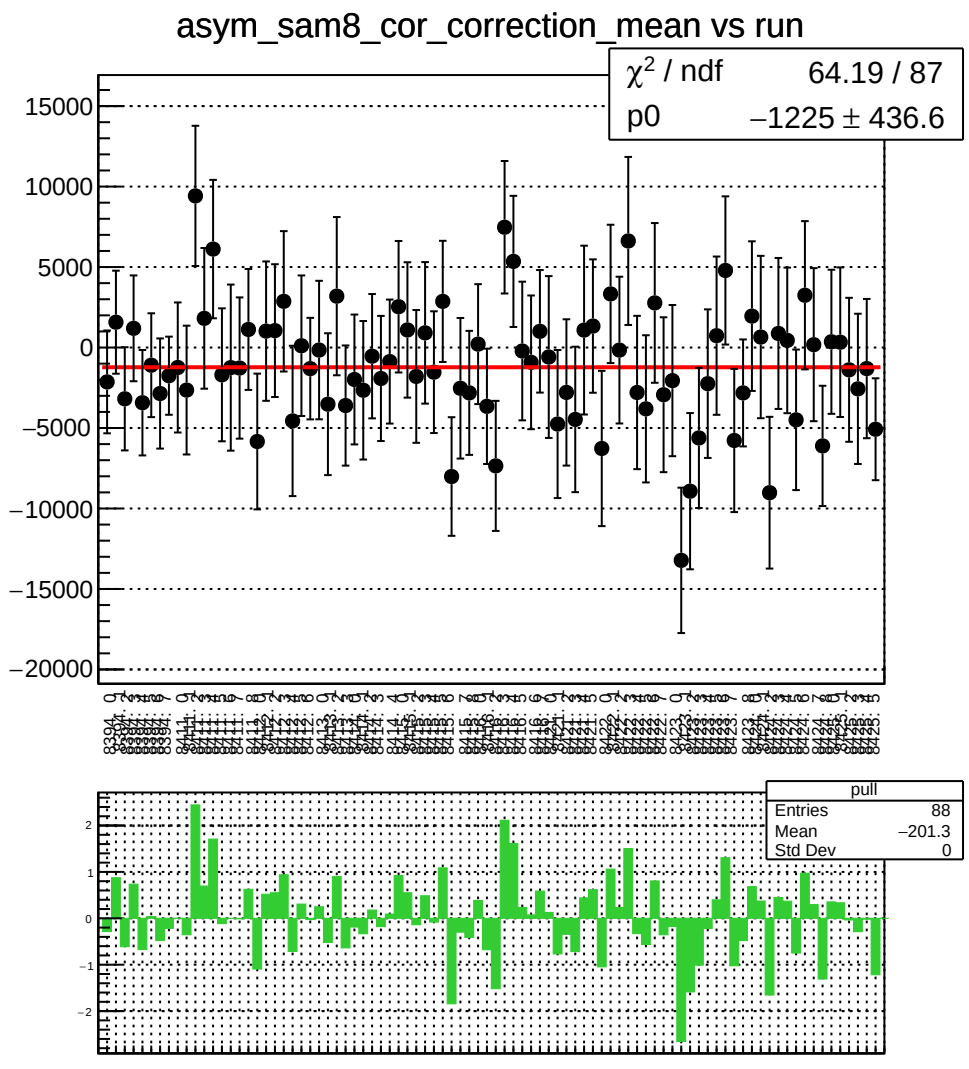

pull1D
Entries 88
Mean 0.01444
Std Dev 0.8539
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

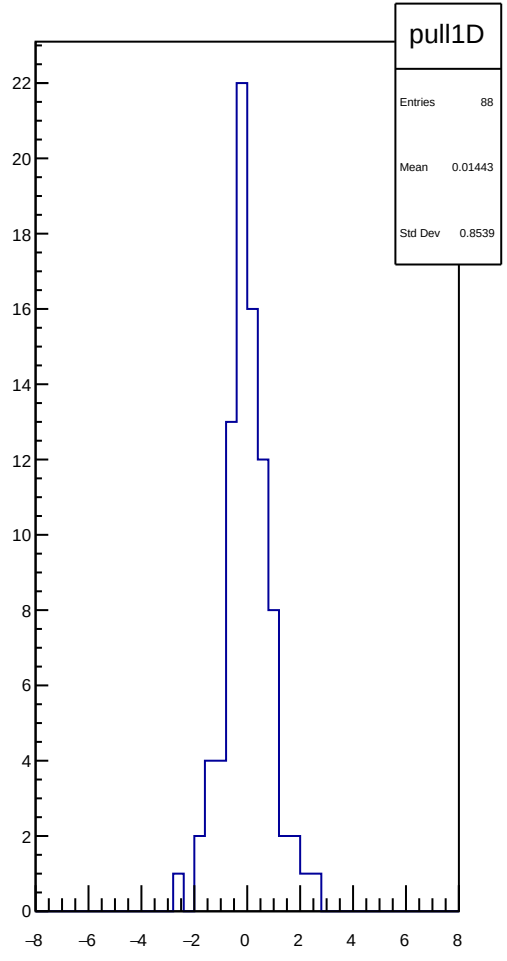

asym_sam8_reg_correction_rms vs run
χ² / ndf 2.57e+04 / 87
p0 398.6 ± 0.3087
500
450
400
350
300

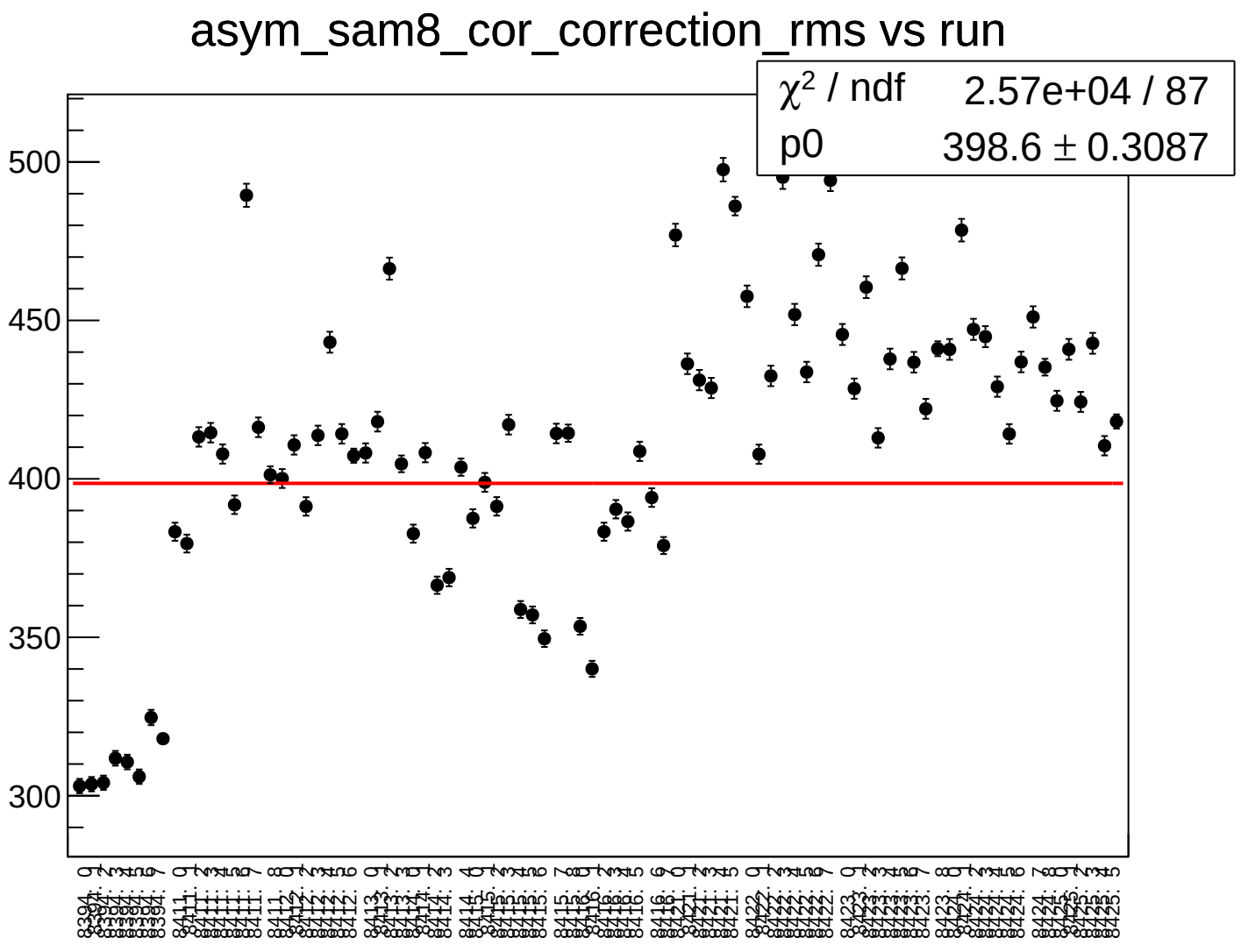

cor_asym_sam8_mean vs run
χ^2 / ndf 89.59 / 87
p0 402.3 ± 77.28
4000
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 102.7
Std Dev 0
3
2
1
0
−1
−2

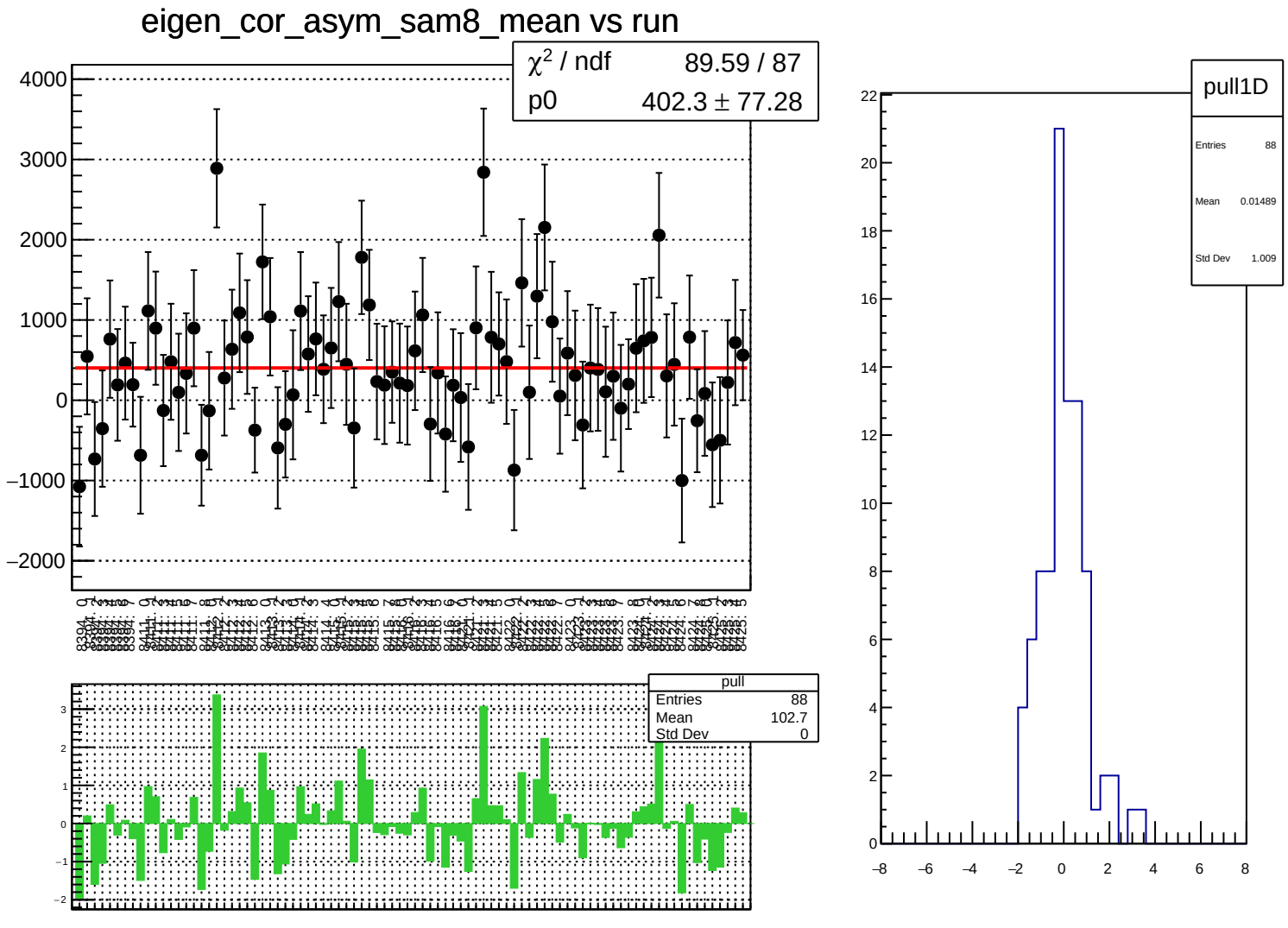

pull1D
Entries 88
Mean 0.01489
Std Dev 1.009
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam8_rms vs run
χ² / ndf 3197 / 87
p0 71.03 ± 0.05464
80
78
76
74
72
70
68
66
64

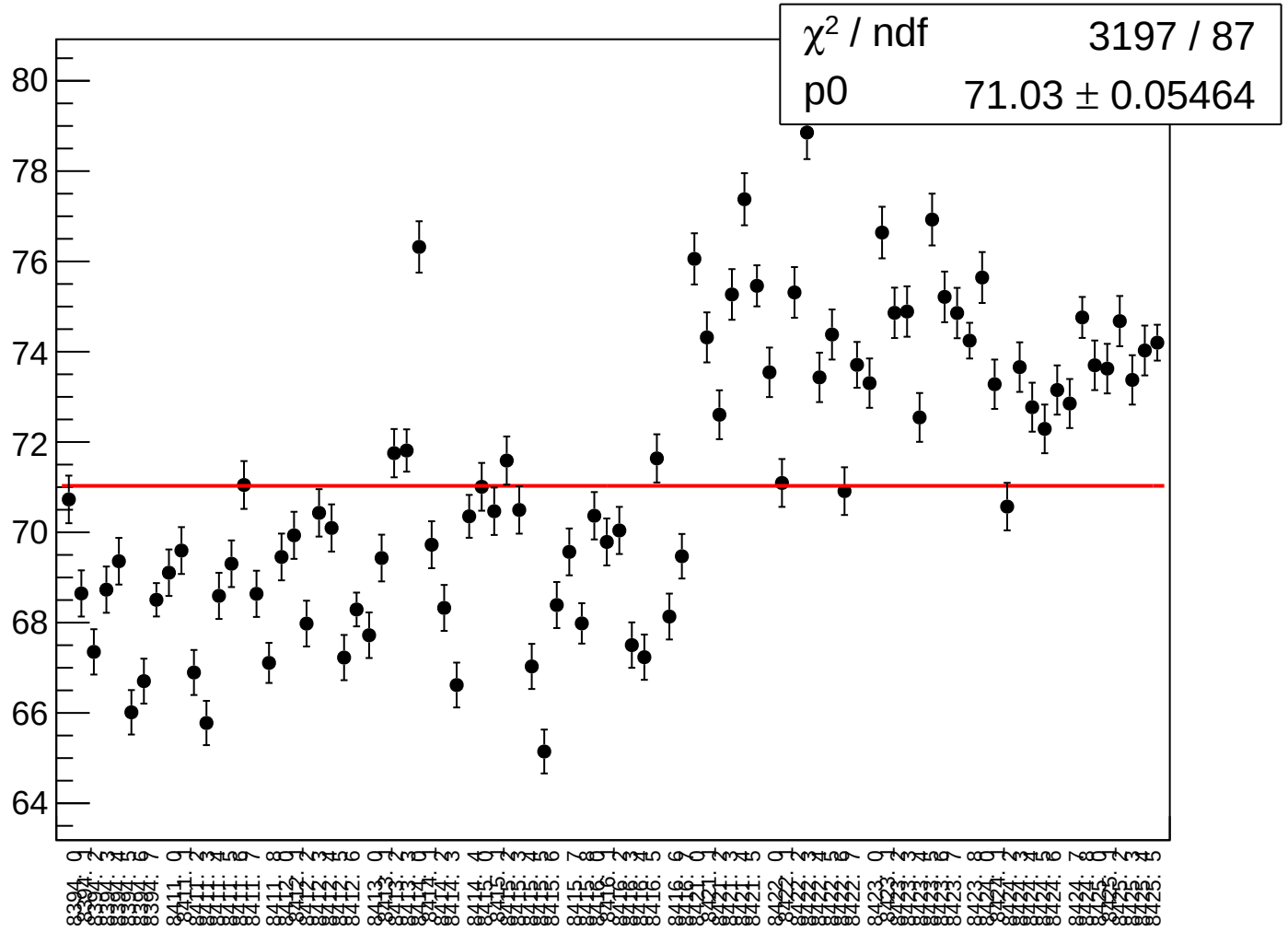

asym_sam8_cor_correction_mean vs run
χ² / ndf 64.19 / 87
p0 −1225 ± 436.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean −201.3
Std Dev 0
2
1
0
−1
−2

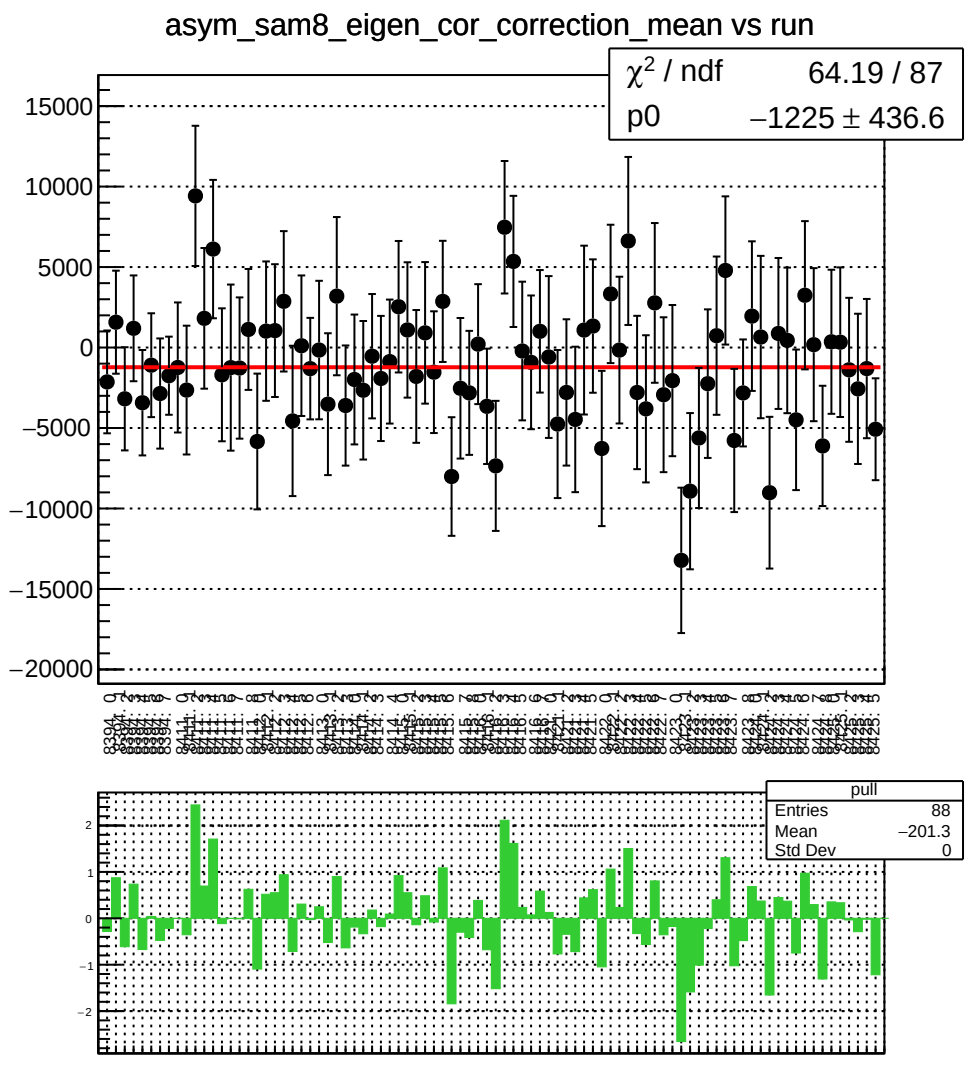

pull1D
Entries 88
Mean 0.01443
Std Dev 0.8539
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

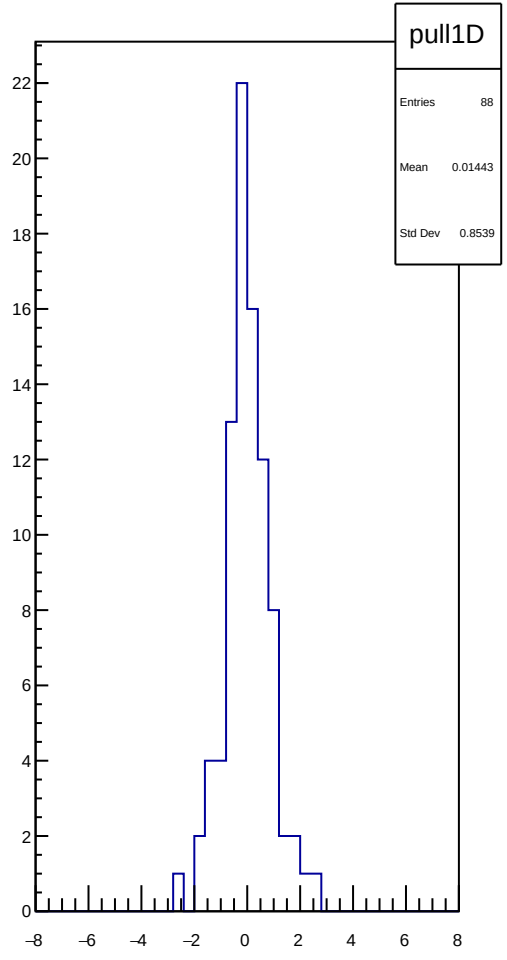

asym_sam8_cor_correction_rms vs run
χ² / ndf 2.57e+04 / 87
p0 398.6 ± 0.3087
500
450
400
350
300

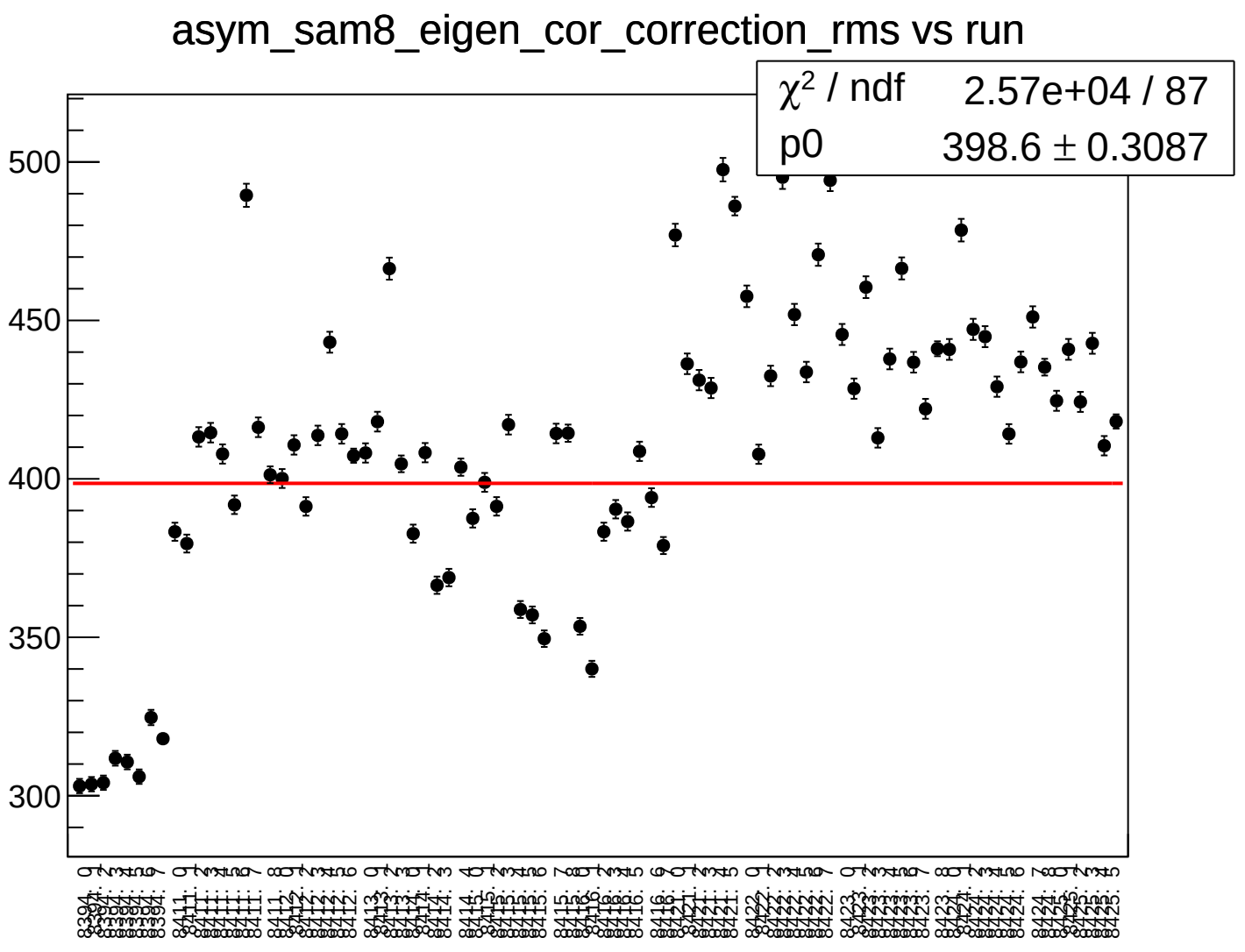

eigen_cor_asym_sam8_mean vs run
χ² / ndf 89.59 / 87
p0 402.3 ± 77.28
pull
Entries 88
Mean 102.7
Std Dev 0
pull1D
Entries 88
Mean 0.01489
Std Dev 1.009

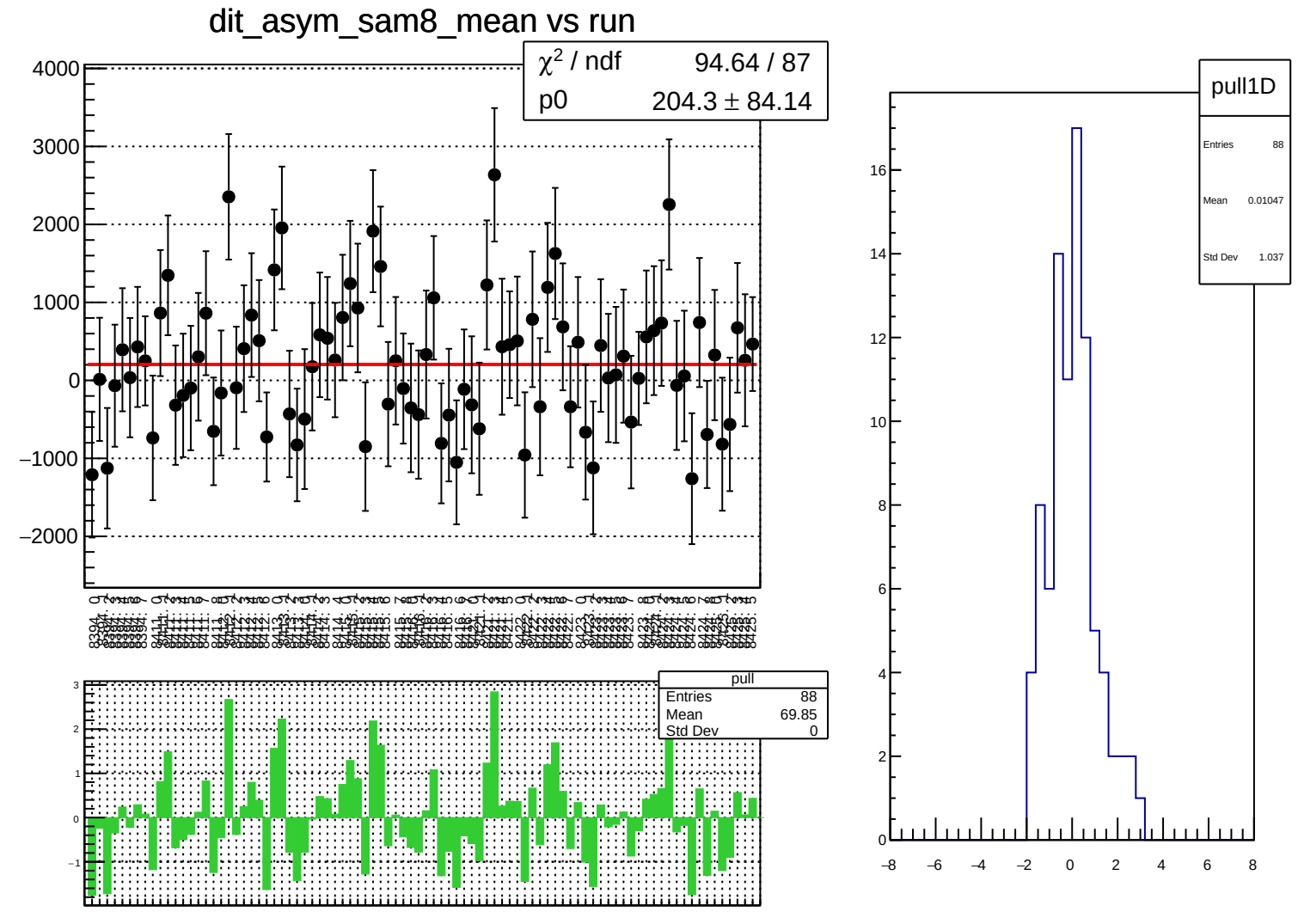
eigen_cor_asym_sam8_rms vs run

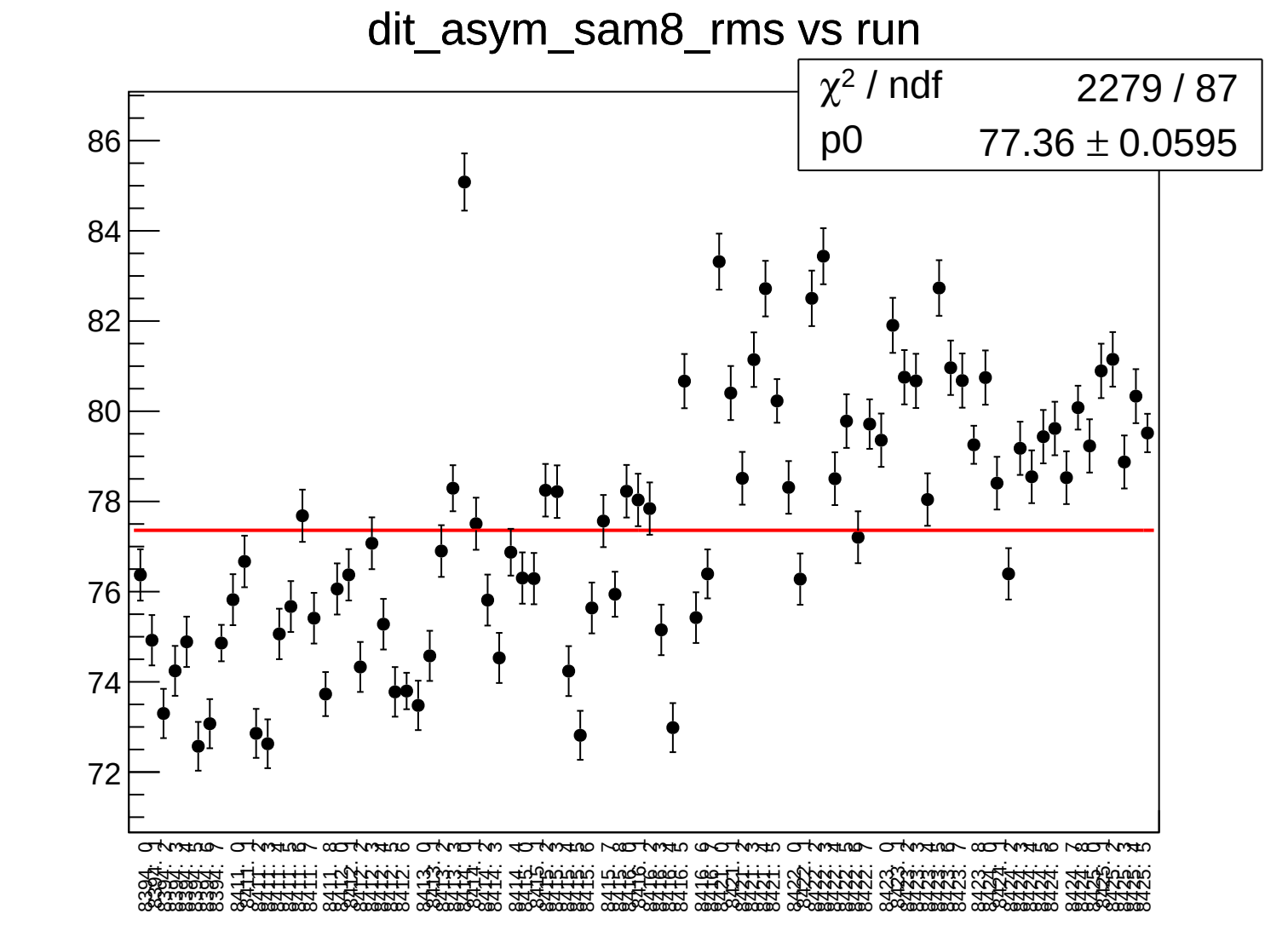


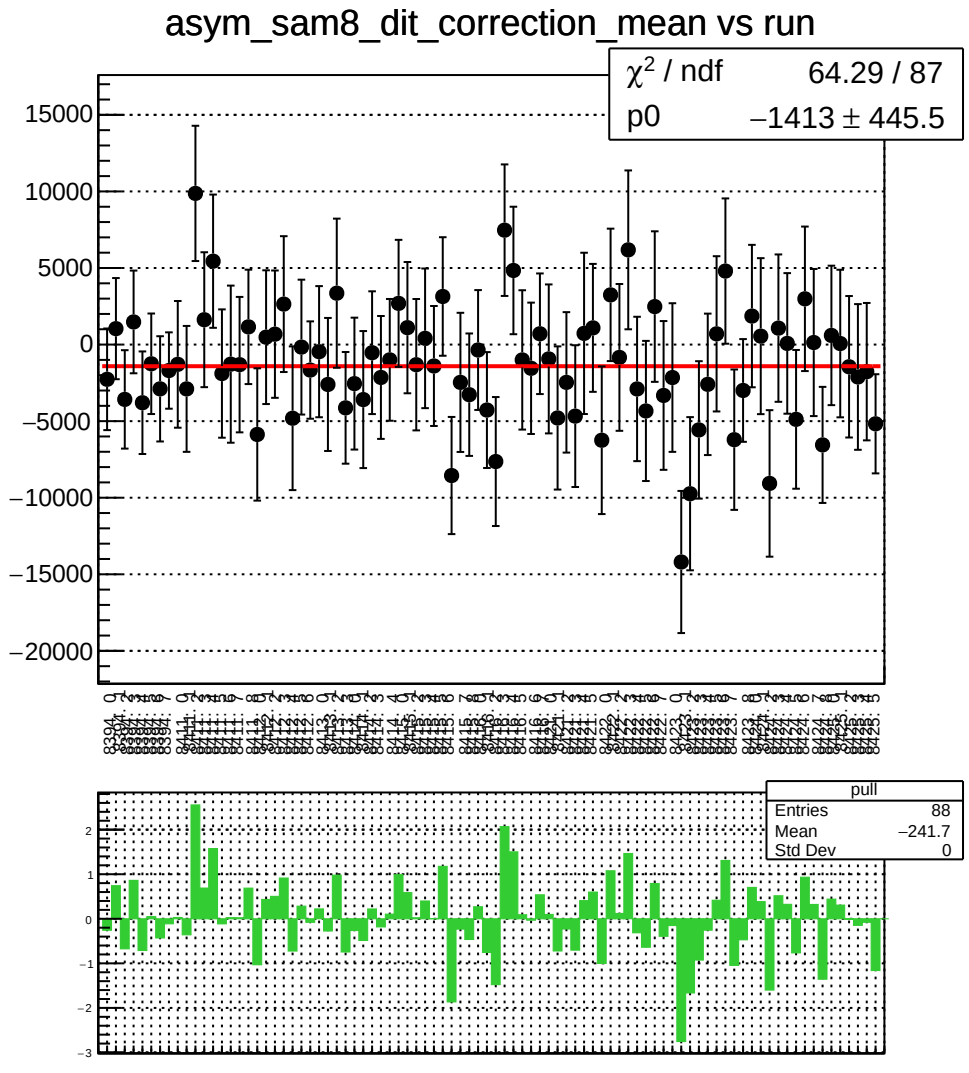

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 64.19 / 87
p0 −1225 ± 436.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean −201.3
Std Dev 0
2
1
0
−1
−2

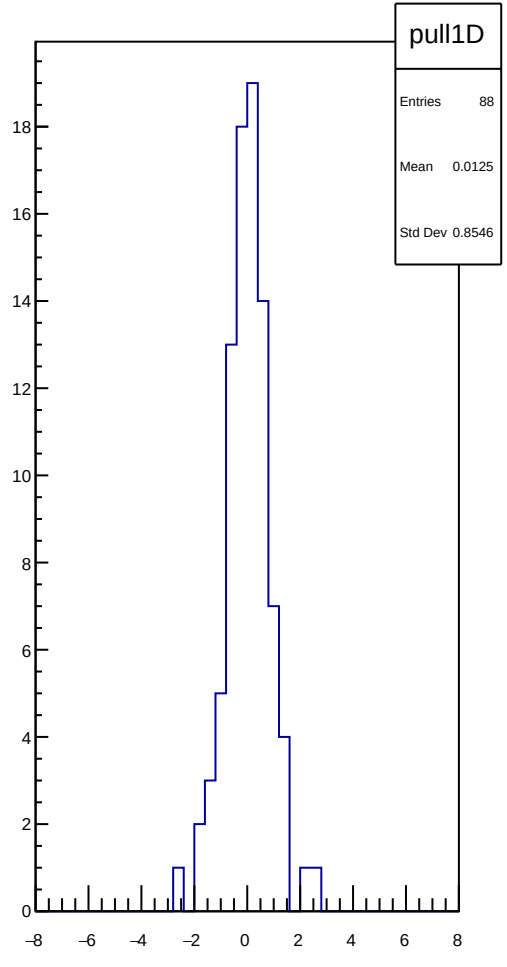

pull1D
Entries 88
Mean 0.01443
Std Dev 0.8539
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

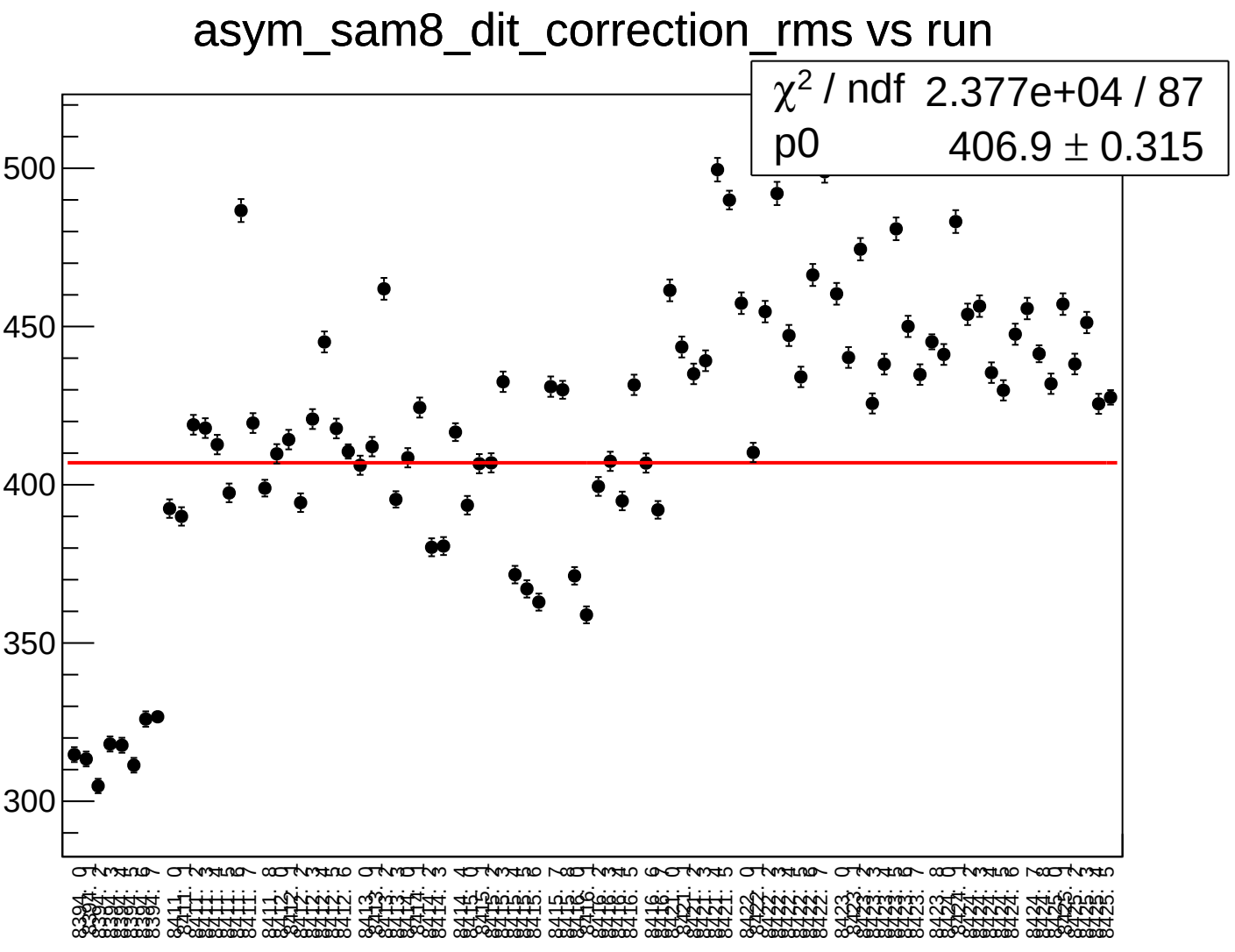

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 2.57e+04 / 87
p0 398.6 ± 0.3087
500
450
400
350
300

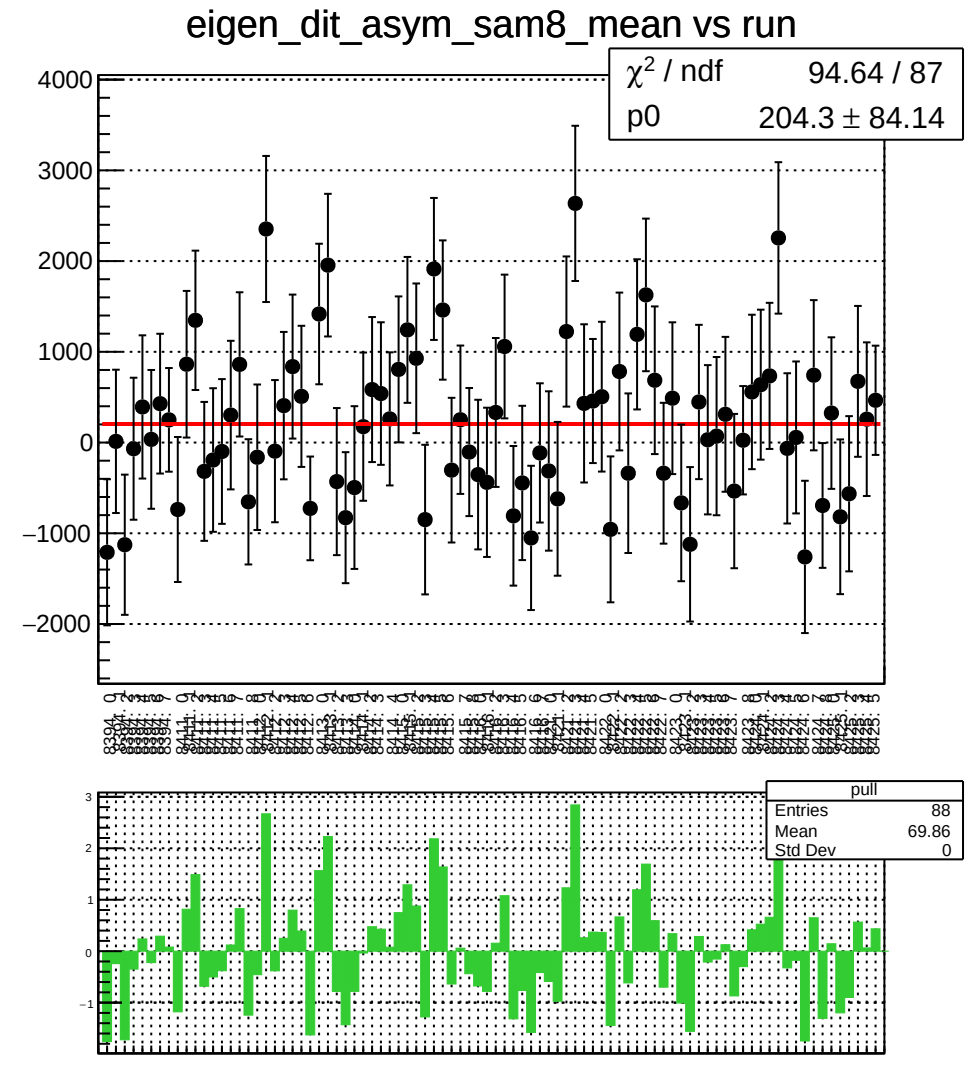

dit_asym_sam8_mean vs run
χ² / ndf 94.64 / 87
p0 204.3 ± 84.14
pull
Entries 88
Mean 69.85
Std Dev 0
pull1D
Entries 88
Mean 0.01047
Std Dev 1.037

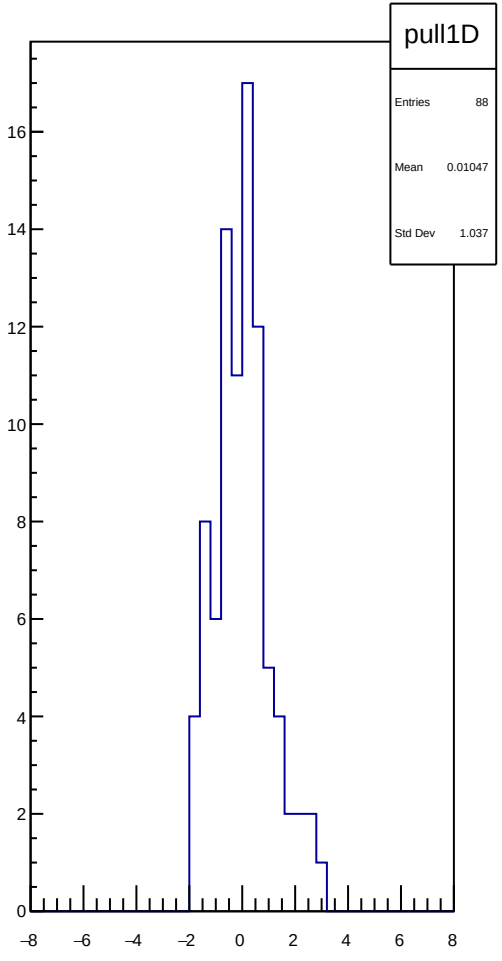

dit_asym_sam8_rms vs run
χ² / ndf 2279 / 87
p0 77.36 ± 0.0595
86
84
82
80
78
76
74
72

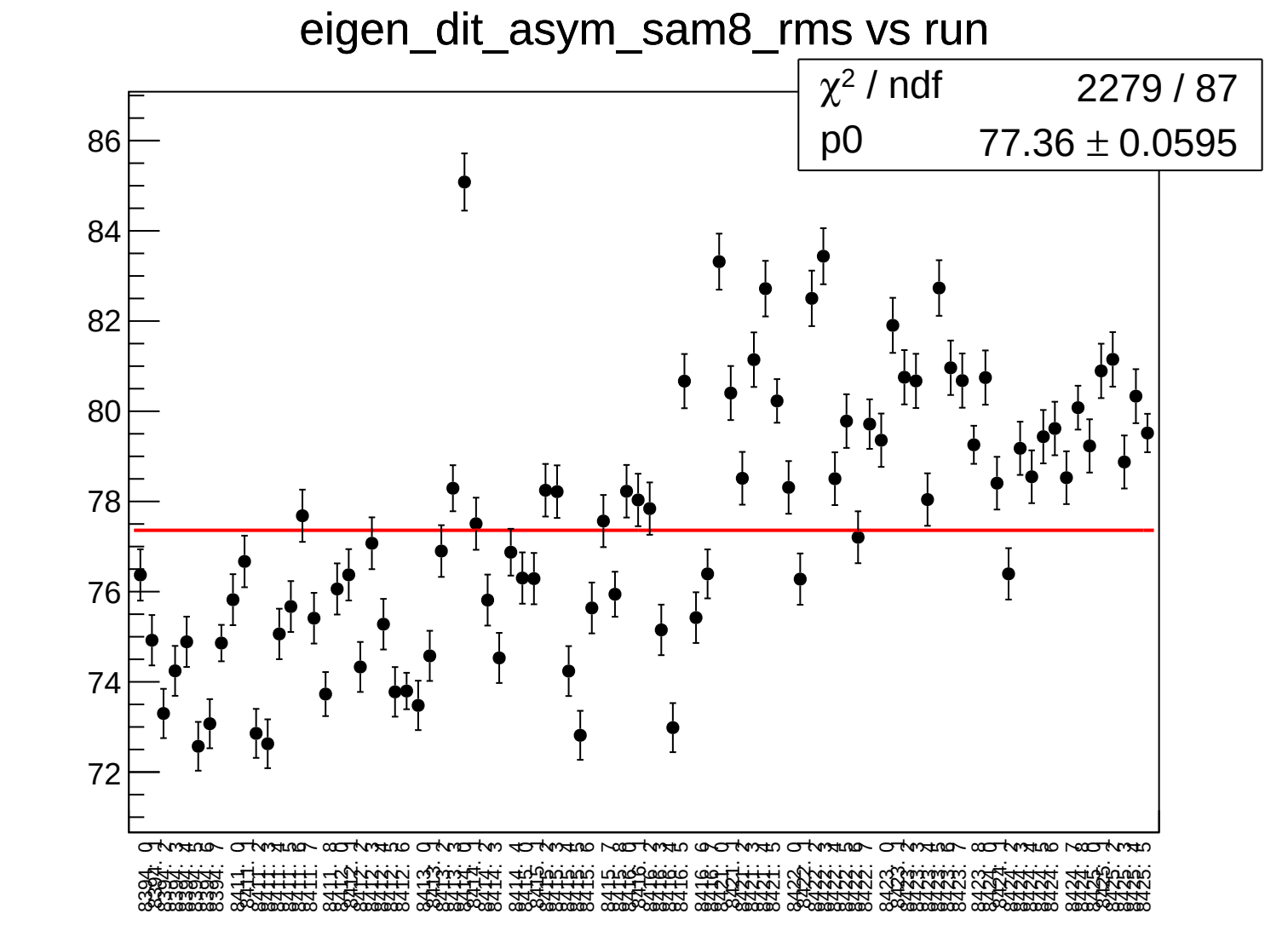

asym_sam8_dit_correction_mean vs run
χ² / ndf 64.29 / 87
p0 −1413 ± 445.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean −241.7
Std Dev 0
2
1
0
−1
−2
−3

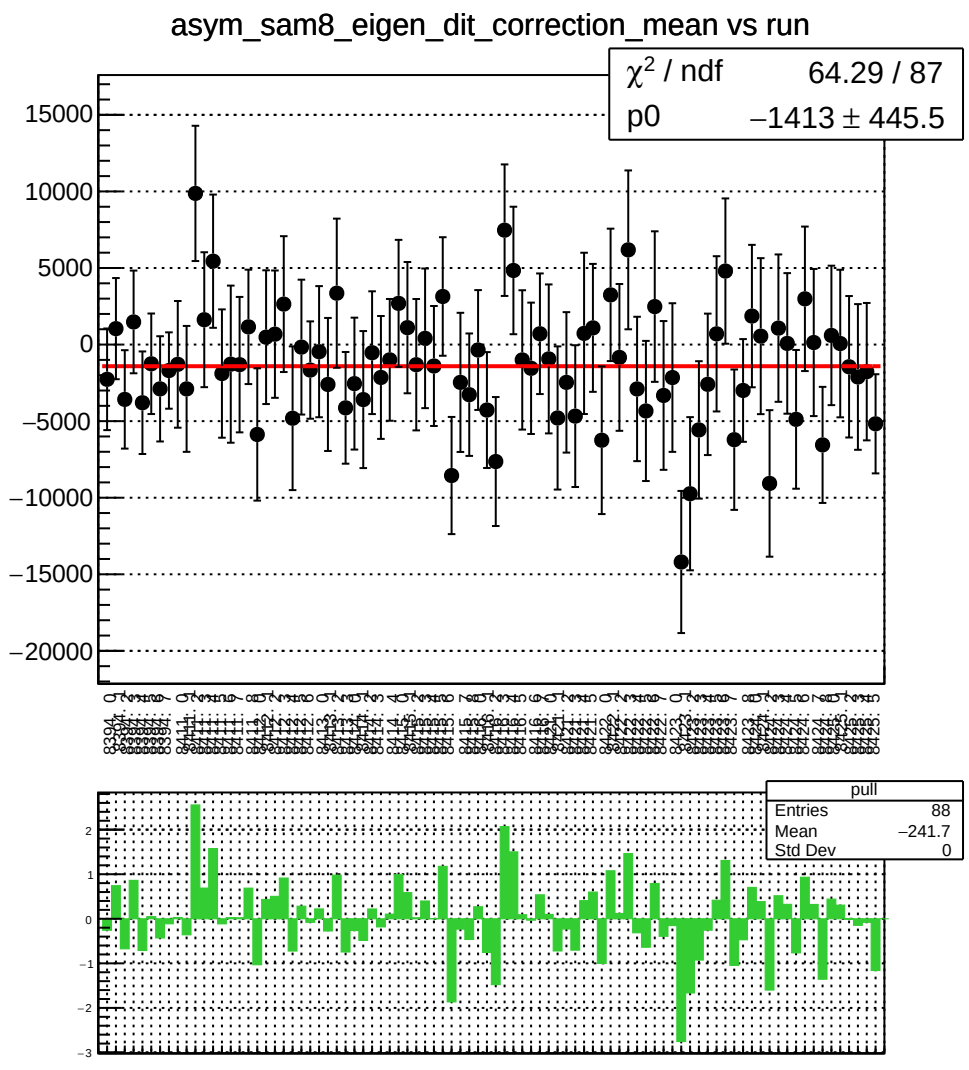

pull1D
Entries 88
Mean 0.0125
Std Dev 0.8546
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

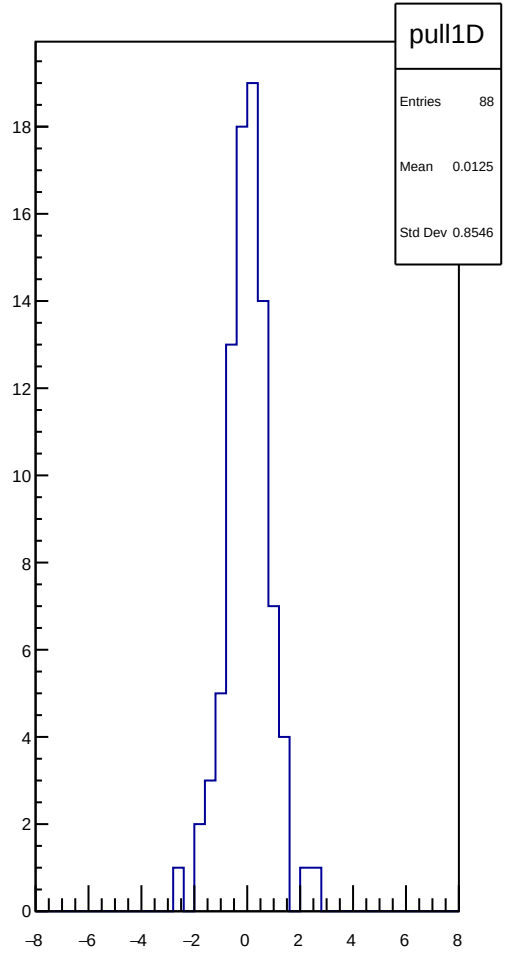

asym_sam8_dit_correction_rms vs run
χ² / ndf 2.377e+04 / 87
p0 406.9 ± 0.315
500
450
400
350
300

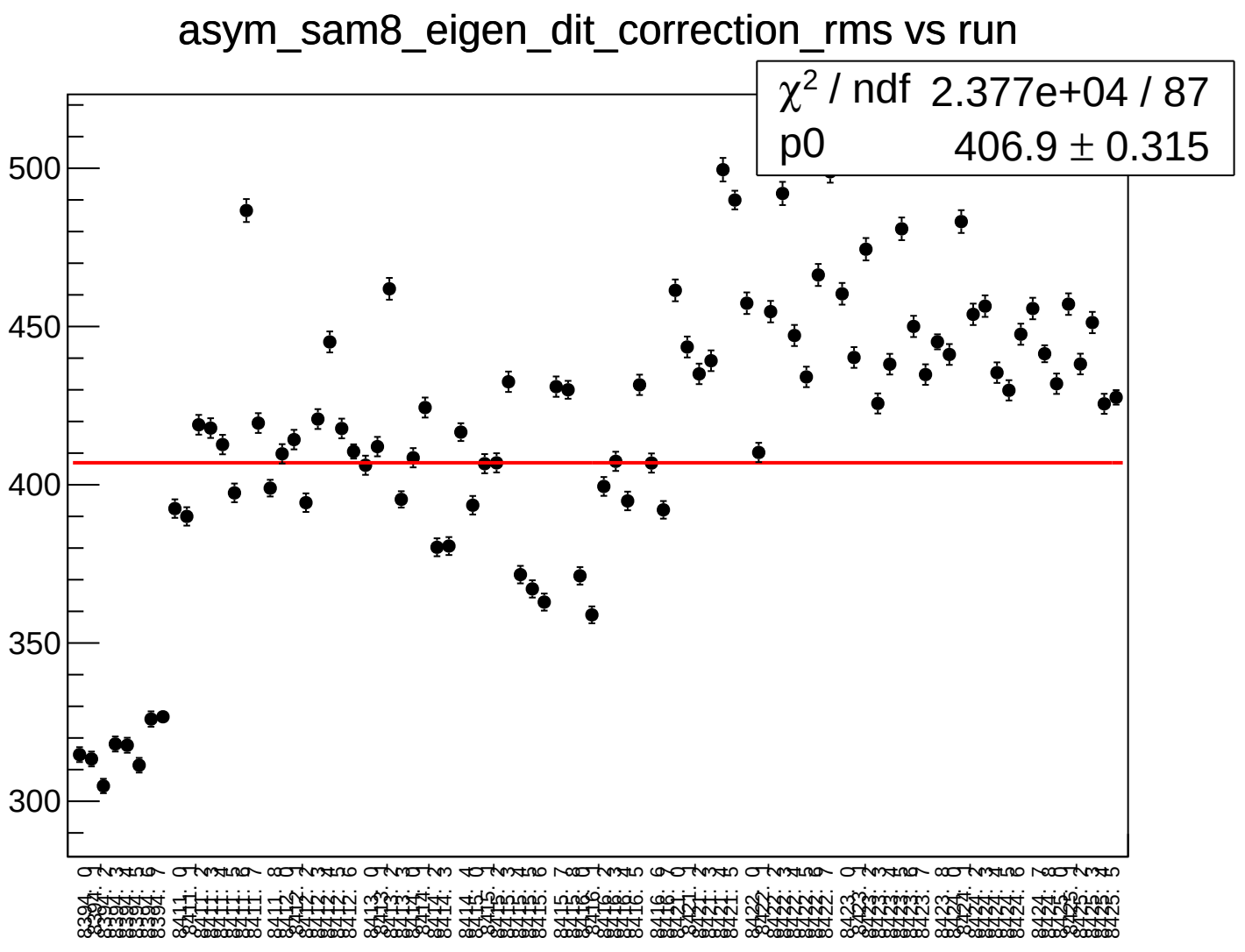

eigen_dit_asym_sam8_mean vs run
χ^2 / ndf 94.64 / 87
p0 204.3 ± 84.14
4000
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 69.86
Std Dev 0
3
2
1
0
−1

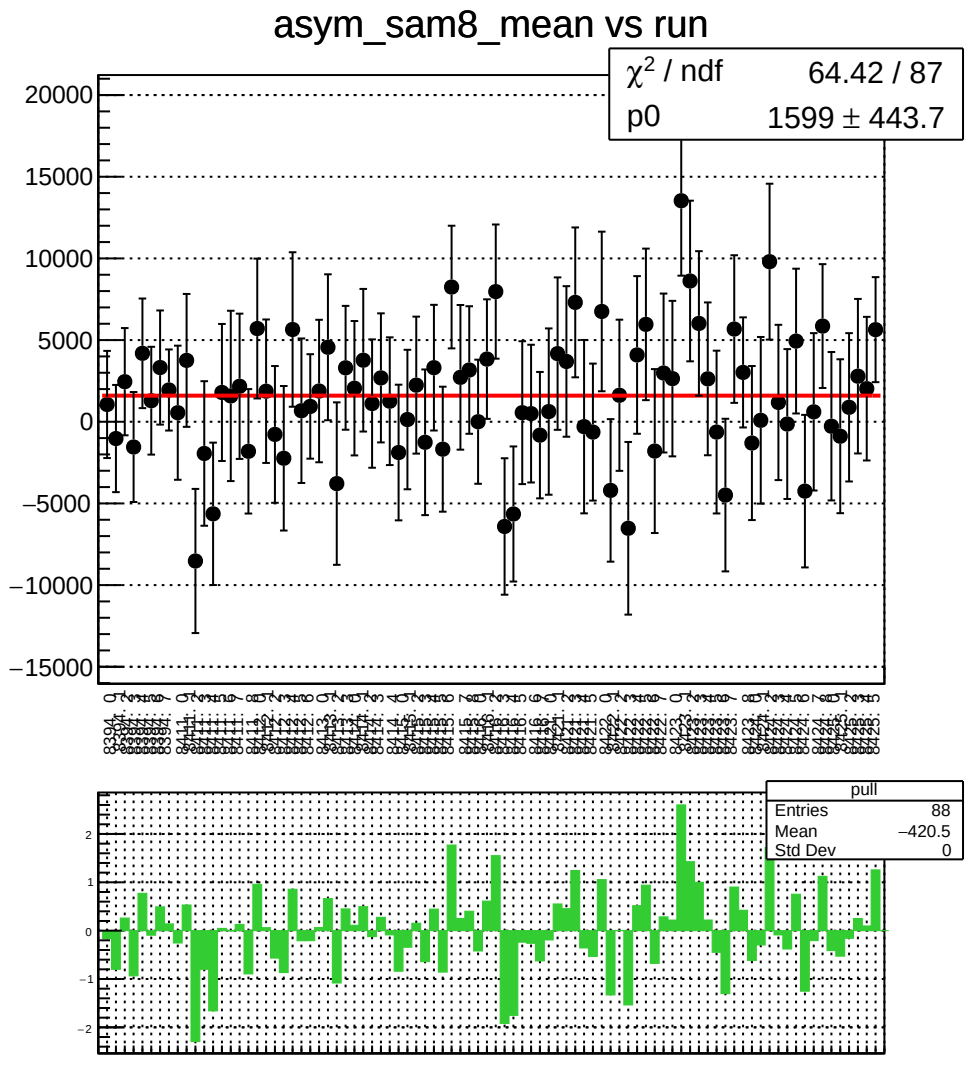

pull1D
Entries 88
Mean 0.01047
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

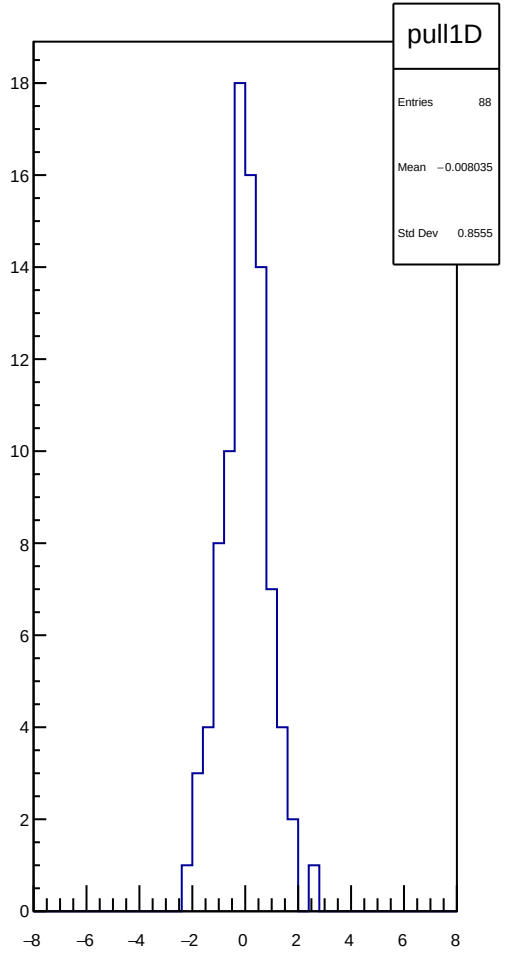

eigen_dit_asym_sam8_rms vs run
χ² / ndf 2279 / 87
p0 77.36 ± 0.0595
86
84
82
80
78
76
74
72

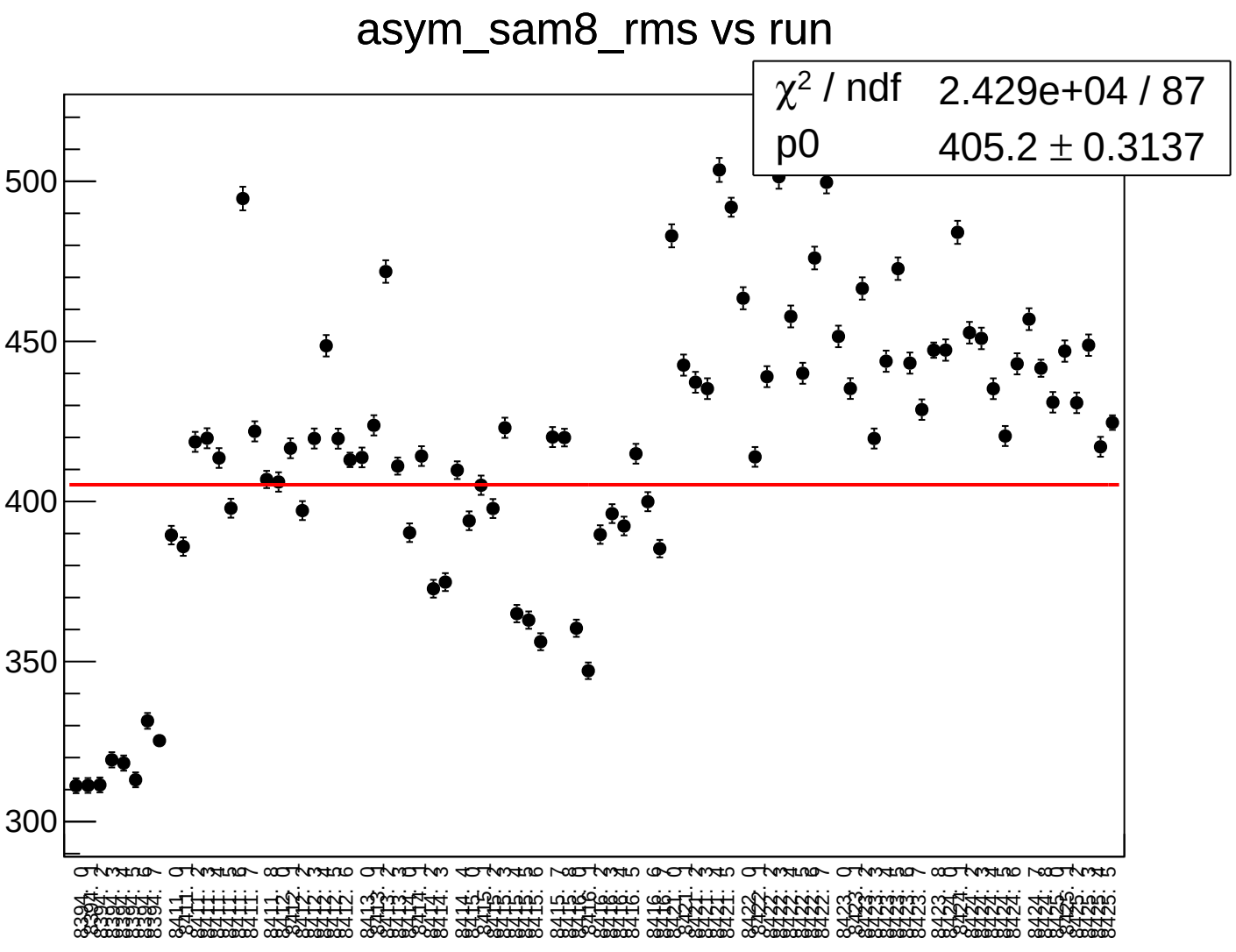

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 64.29 / 87
p0 −1413 ± 445.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean −241.7
Std Dev 0
2
1
0
−1
−2
−3

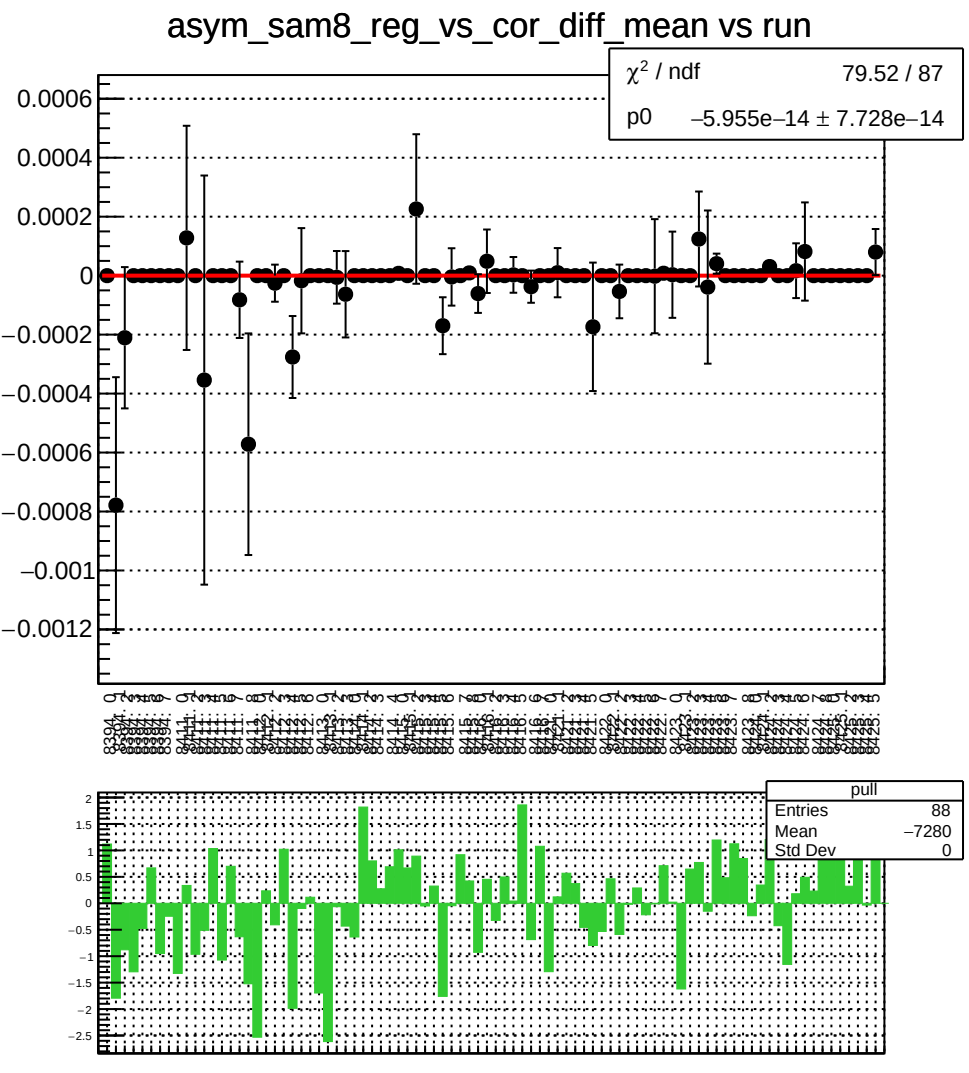

pull1D
Entries 88
Mean 0.0125
Std Dev 0.8546
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

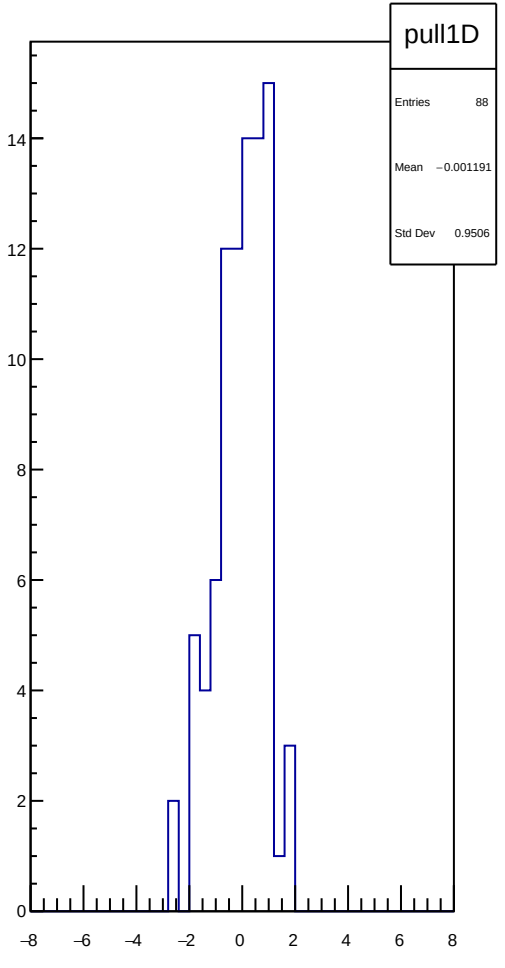

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 2.377e+04 / 87
p0 406.9 ± 0.315
500
450
400
350
300

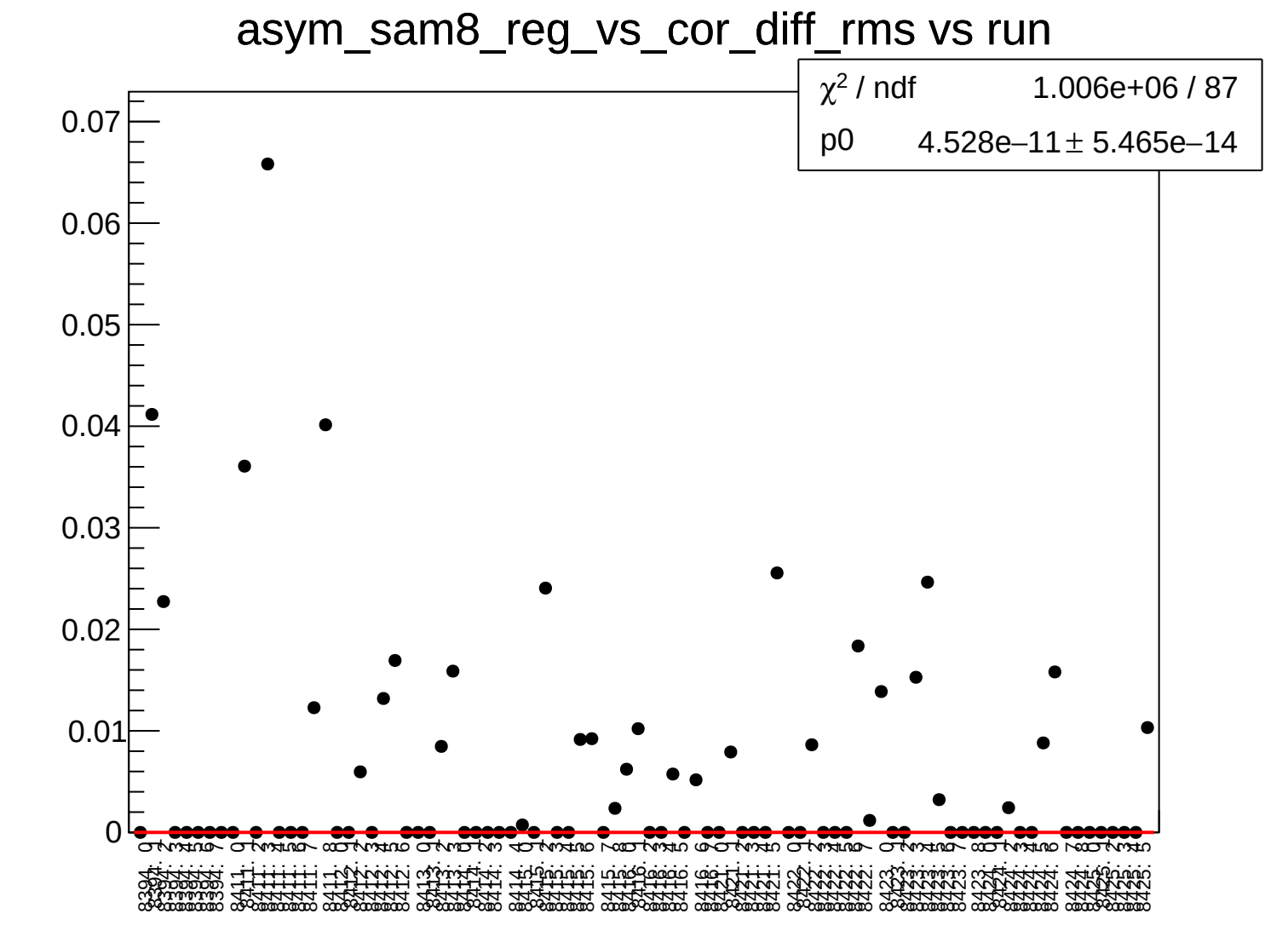

asym_sam8_mean vs run
χ² / ndf 64.42 / 87
p0 1599 ± 443.7
pull
Entries 88
Mean −420.5
Std Dev 0

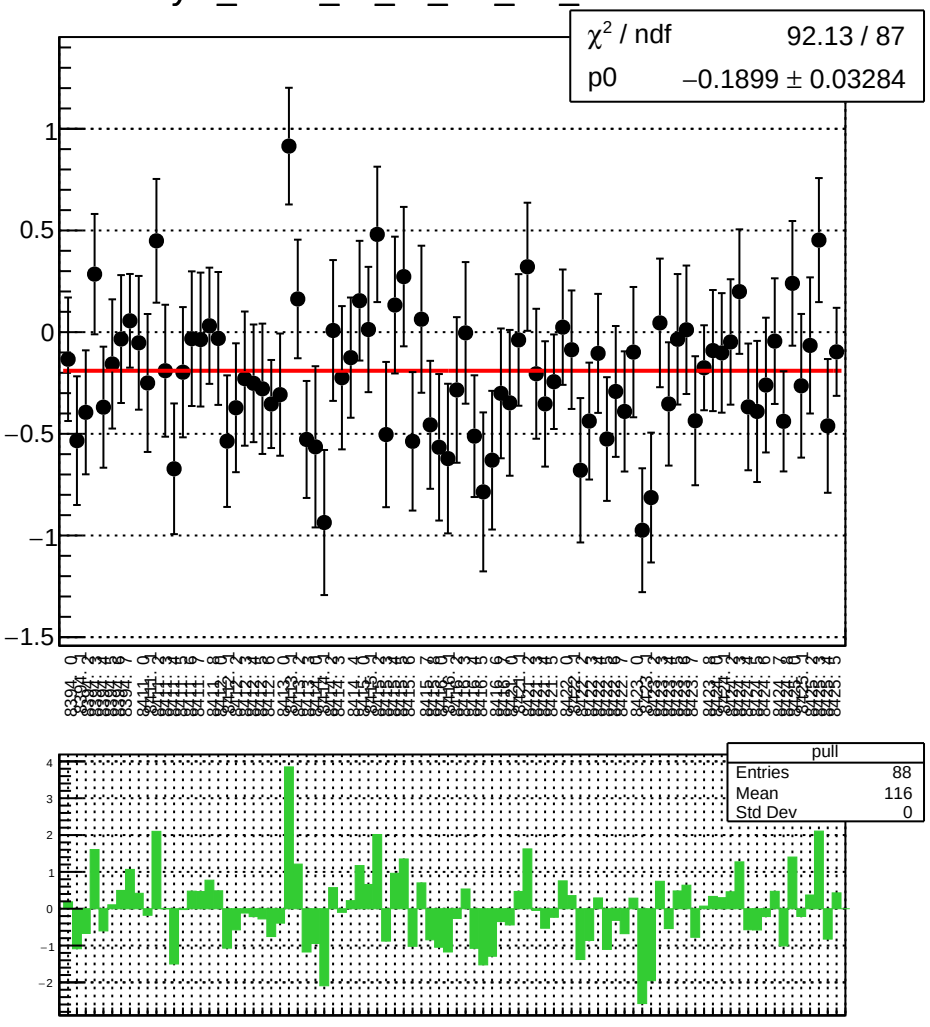

pull1D
Entries 88
Mean −0.008035
Std Dev 0.8555

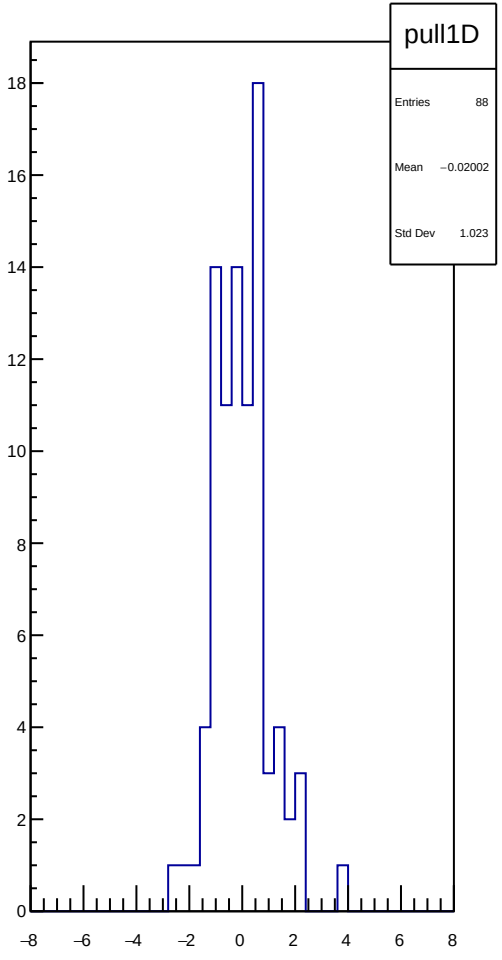

asym_sam8_rms vs run
χ² / ndf 2.429e+04 / 87
p0 405.2 ± 0.3137
500
450
400
350
300

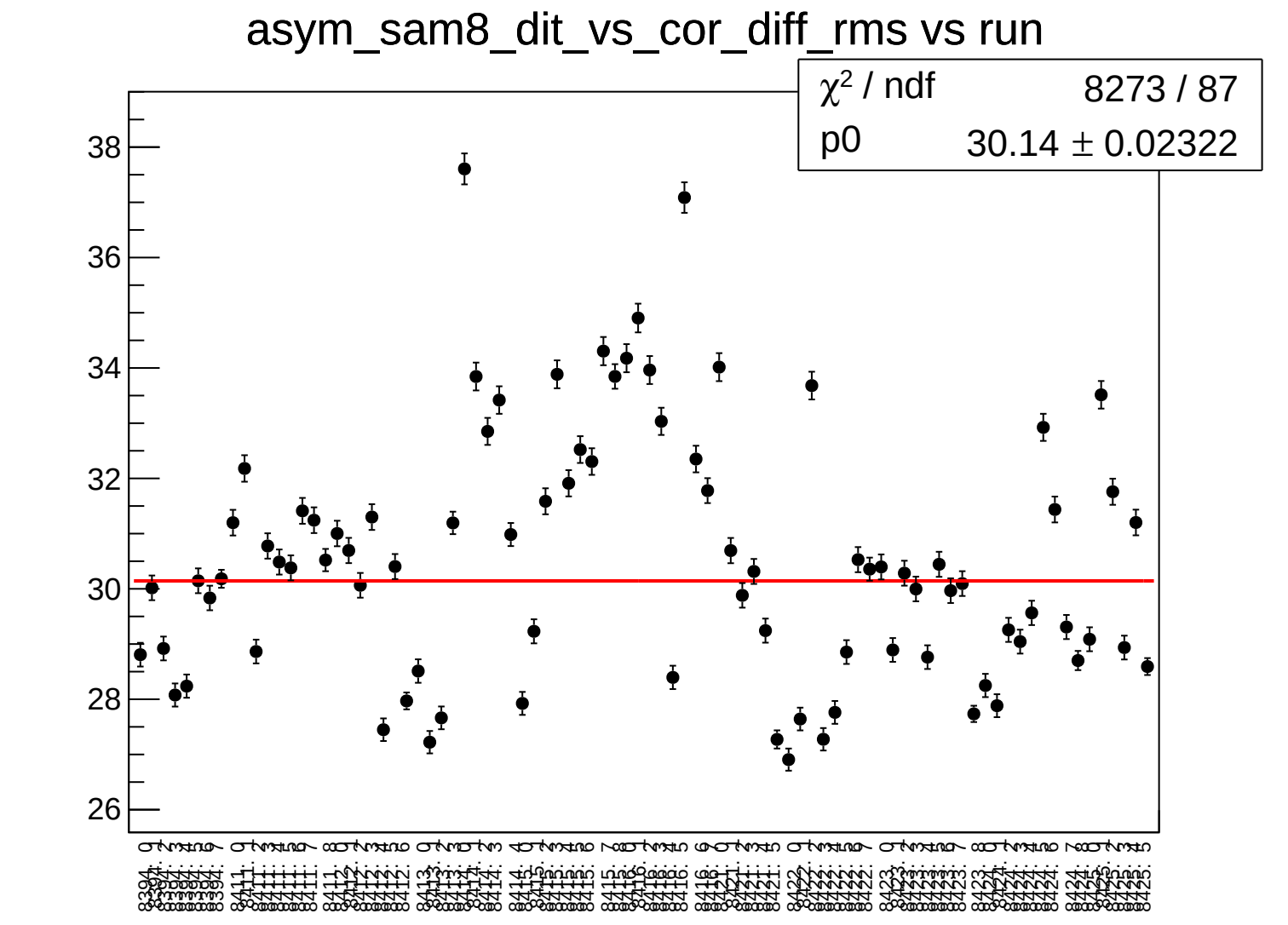

asym_sam8_reg_vs_cor_diff_mean vs run
χ² / ndf 79.52 / 87
p0 −5.955e−14 ± 7.728e−14
pull
Entries 88
Mean −7280
Std Dev 0

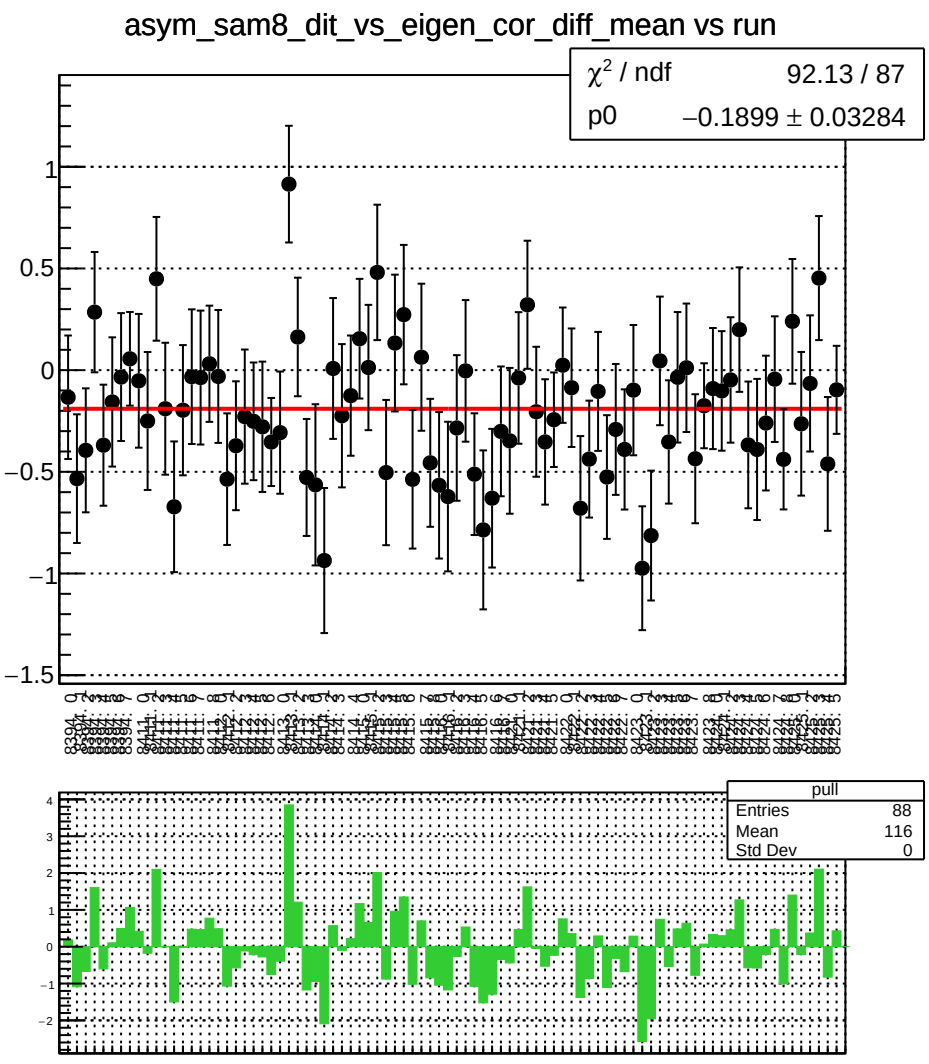

pull1D
Entries 88
Mean −0.001191
Std Dev 0.9506

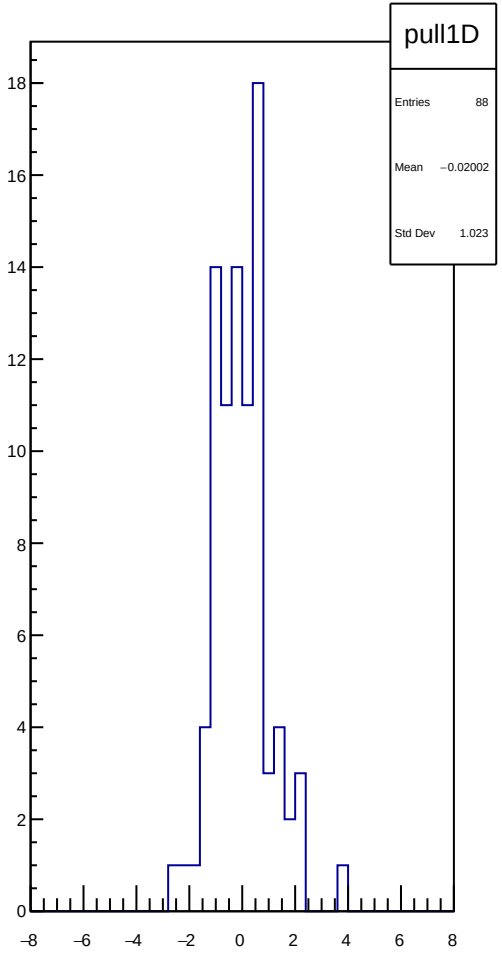

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 1.006e+06 / 87
p0 4.528e−11 ± 5.465e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

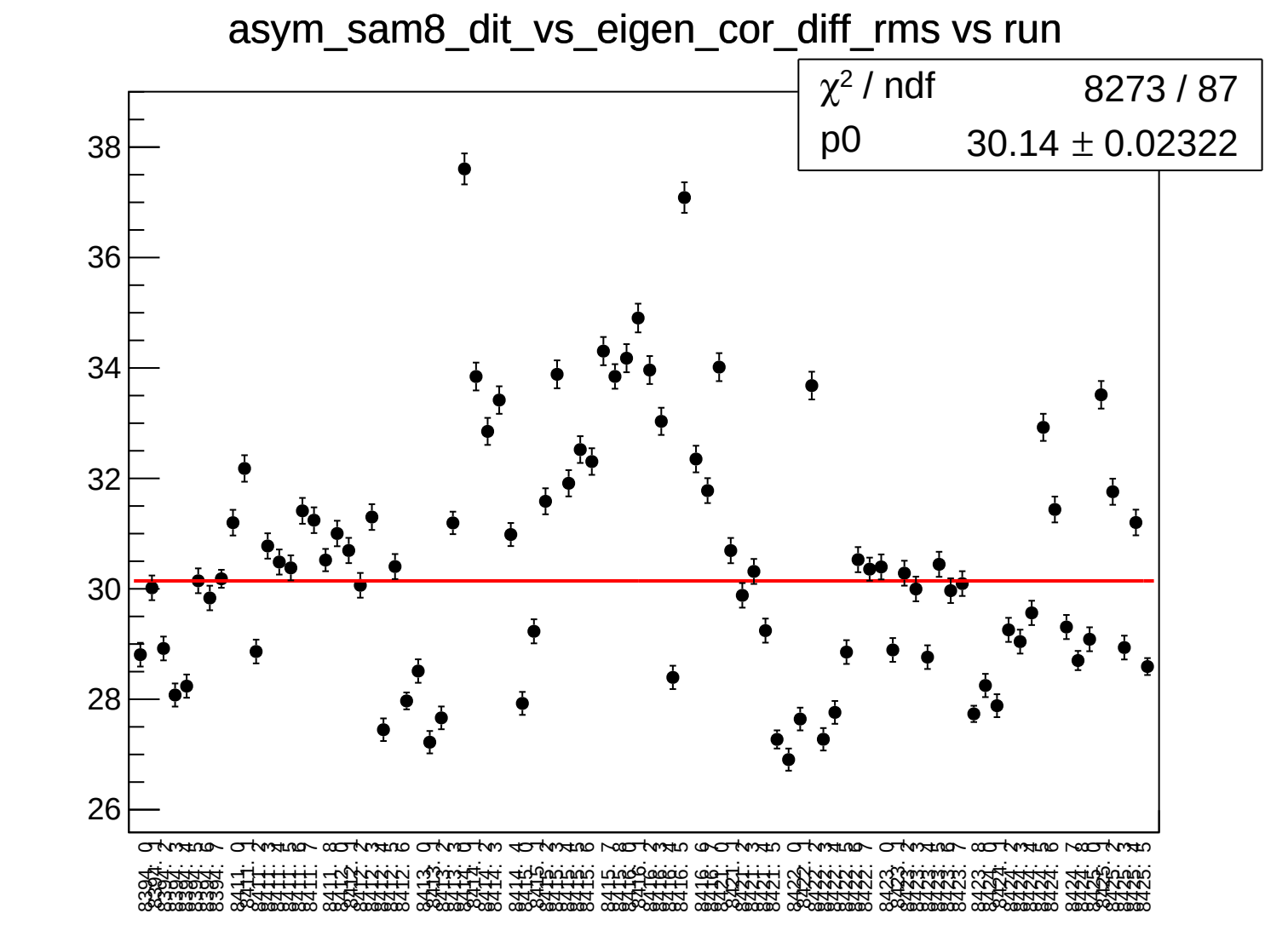

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 92.13 / 87
p0 −0.1899 ± 0.03284
pull
Entries 88
Mean 116
Std Dev 0

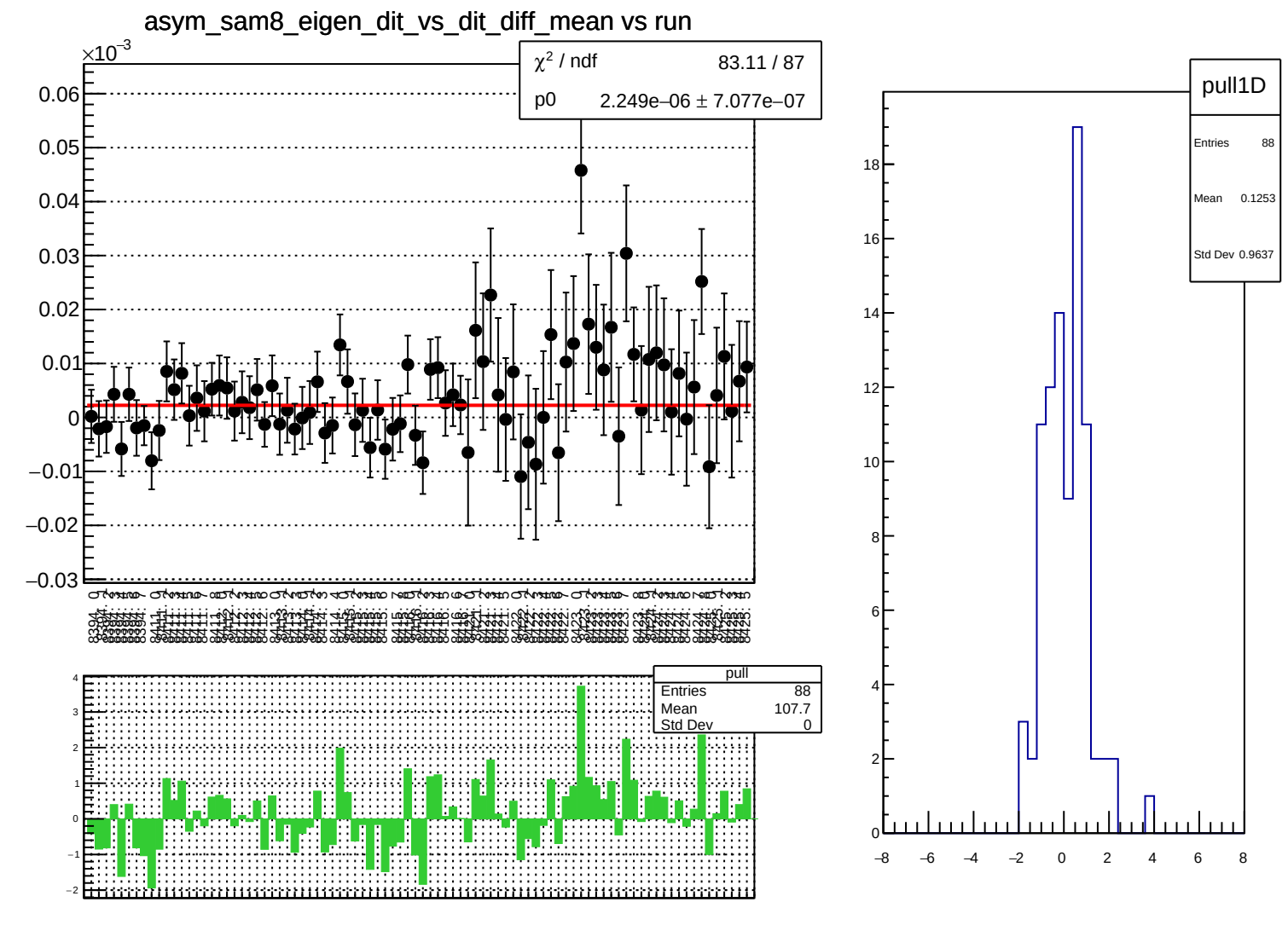

pull1D
Entries 88
Mean −0.02002
Std Dev 1.023

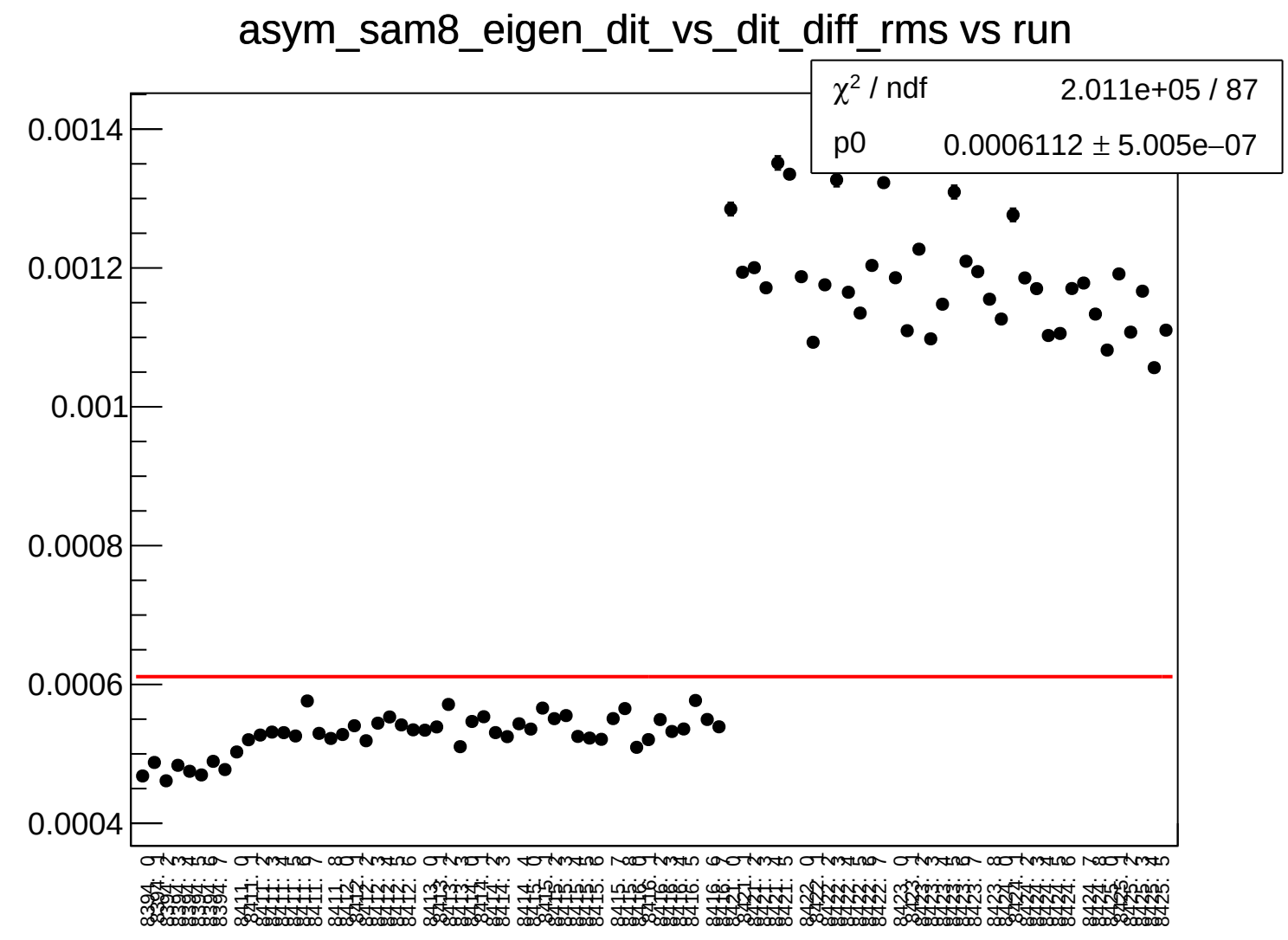

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 8273 / 87
p0 30.14 ± 0.02322
38
36
34
32
30
28
26

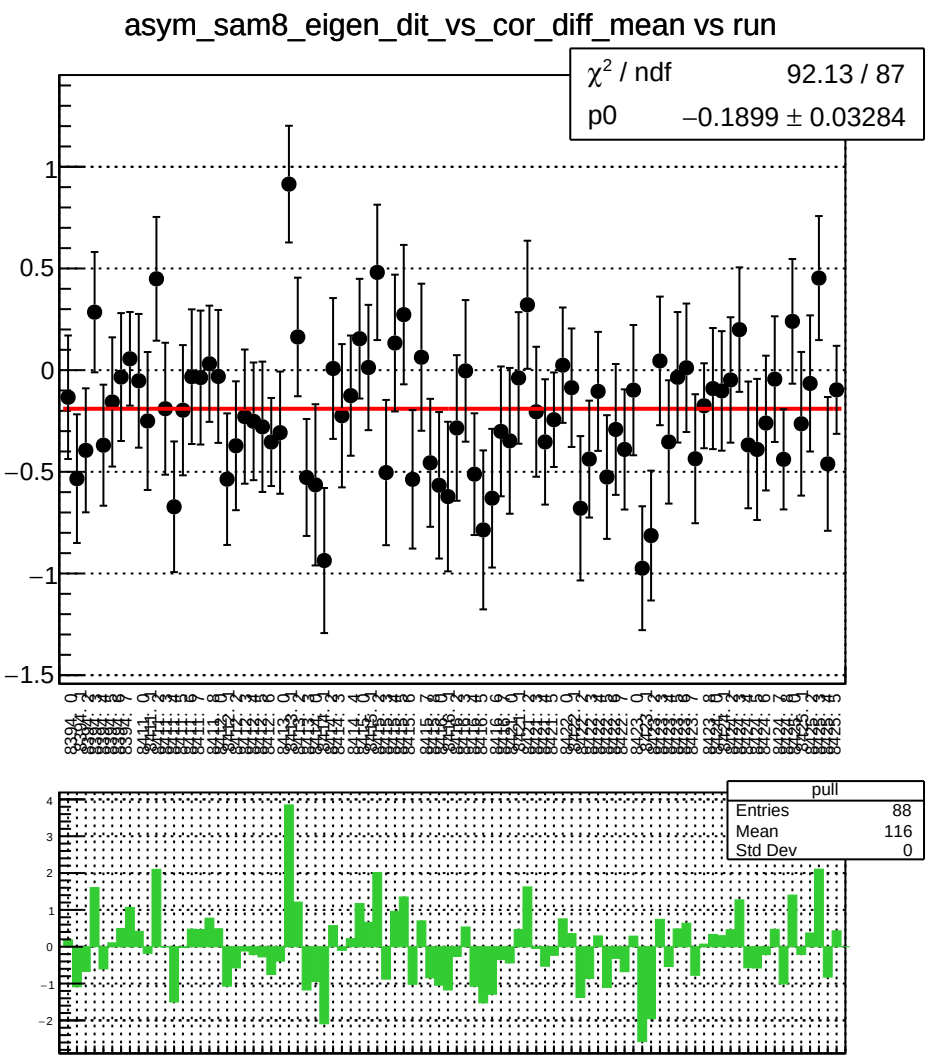

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.13 / 87
p0 −0.1899 ± 0.03284
pull
Entries 88
Mean 116
Std Dev 0

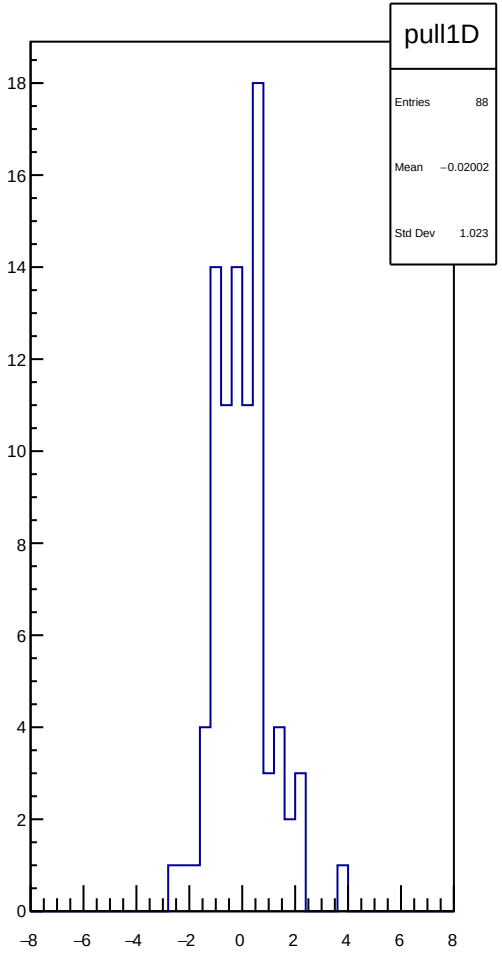

pull1D
Entries 88
Mean −0.02002
Std Dev 1.023

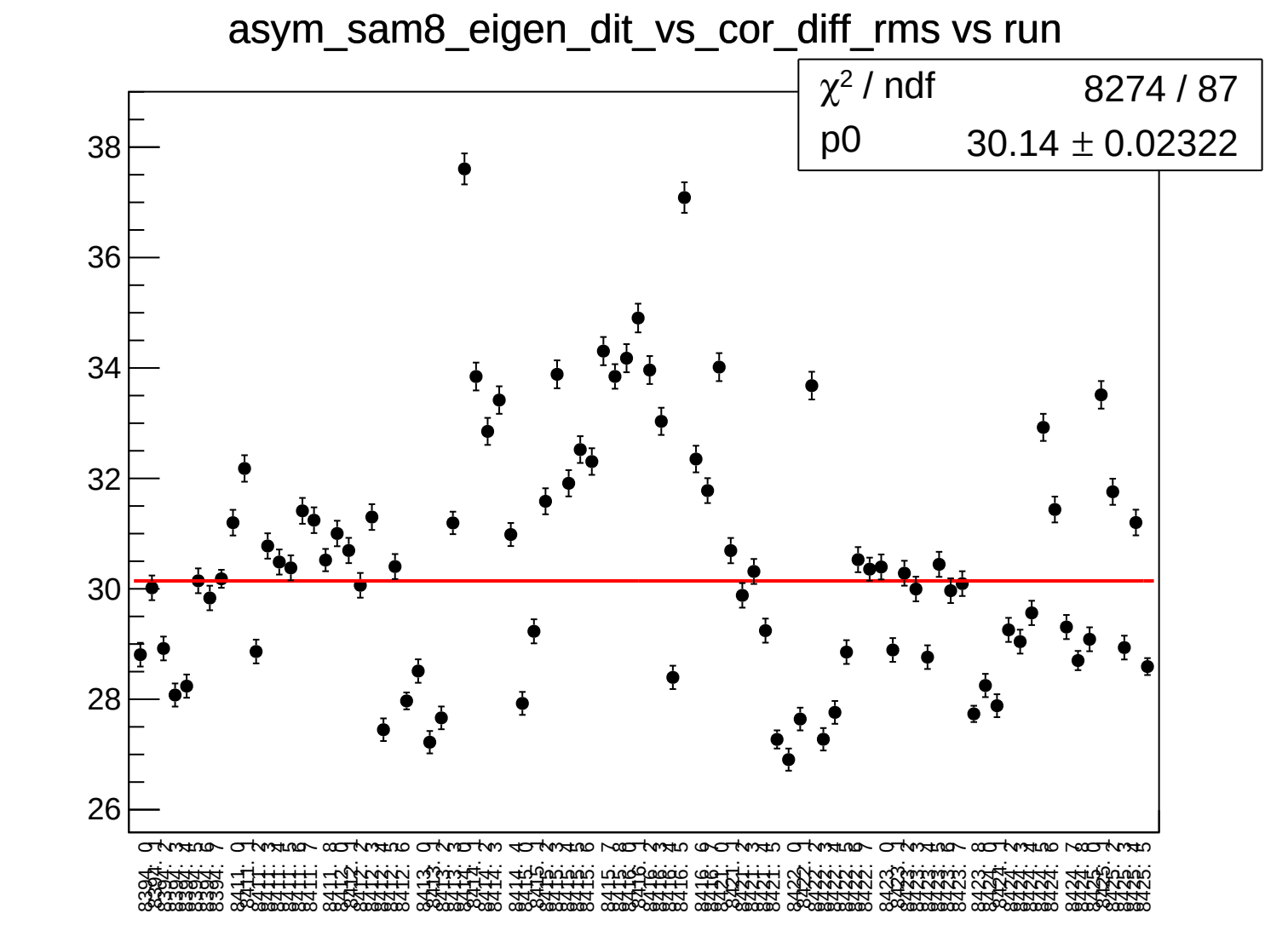

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8273 / 87
p0 30.14 ± 0.02322
38
36
34
32
30
28
26

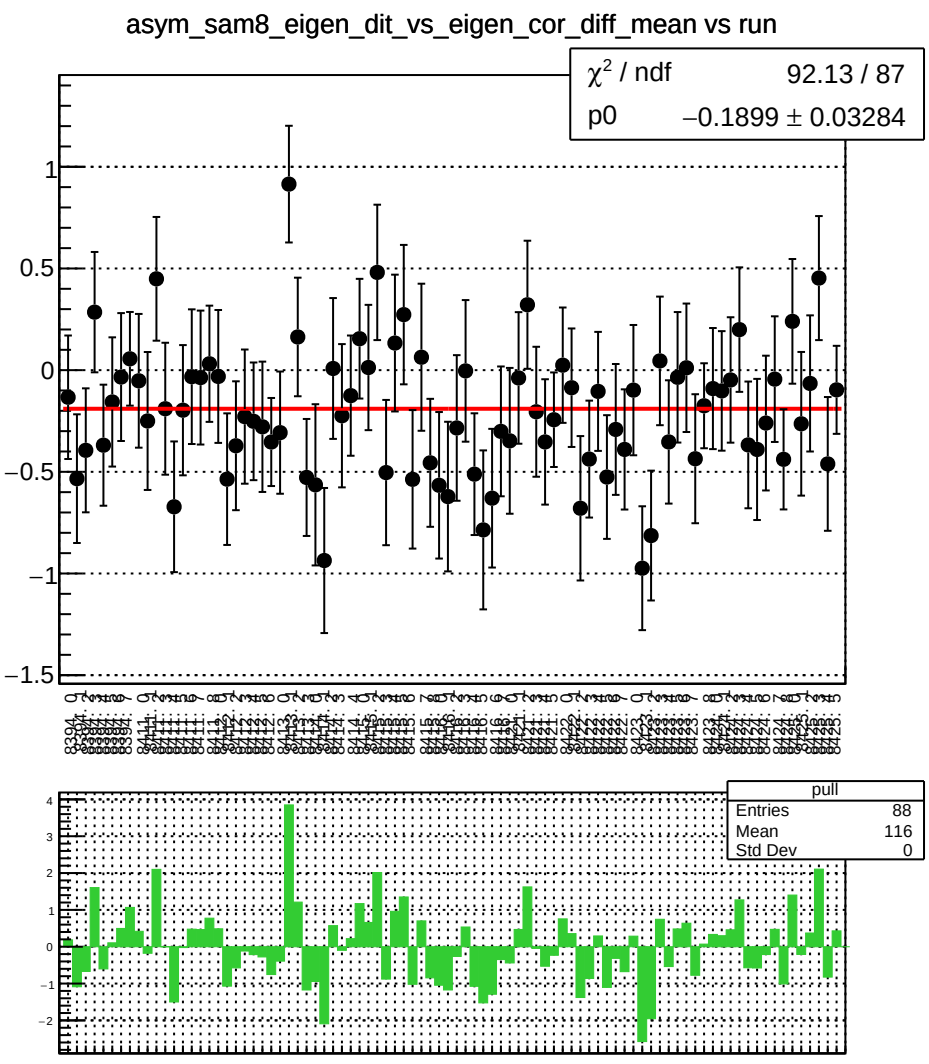

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.11 / 87
p0 2.249e−06 ± 7.077e−07
0.06
0.05
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 88
Mean 107.7
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.1253
Std Dev 0.9637
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

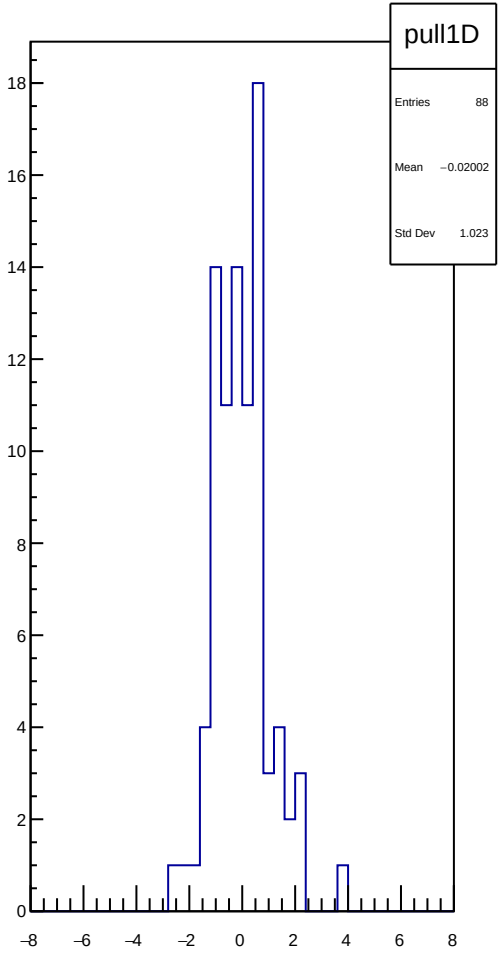

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.011e+05 / 87
p0 0.0006112 ± 5.005e−07
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

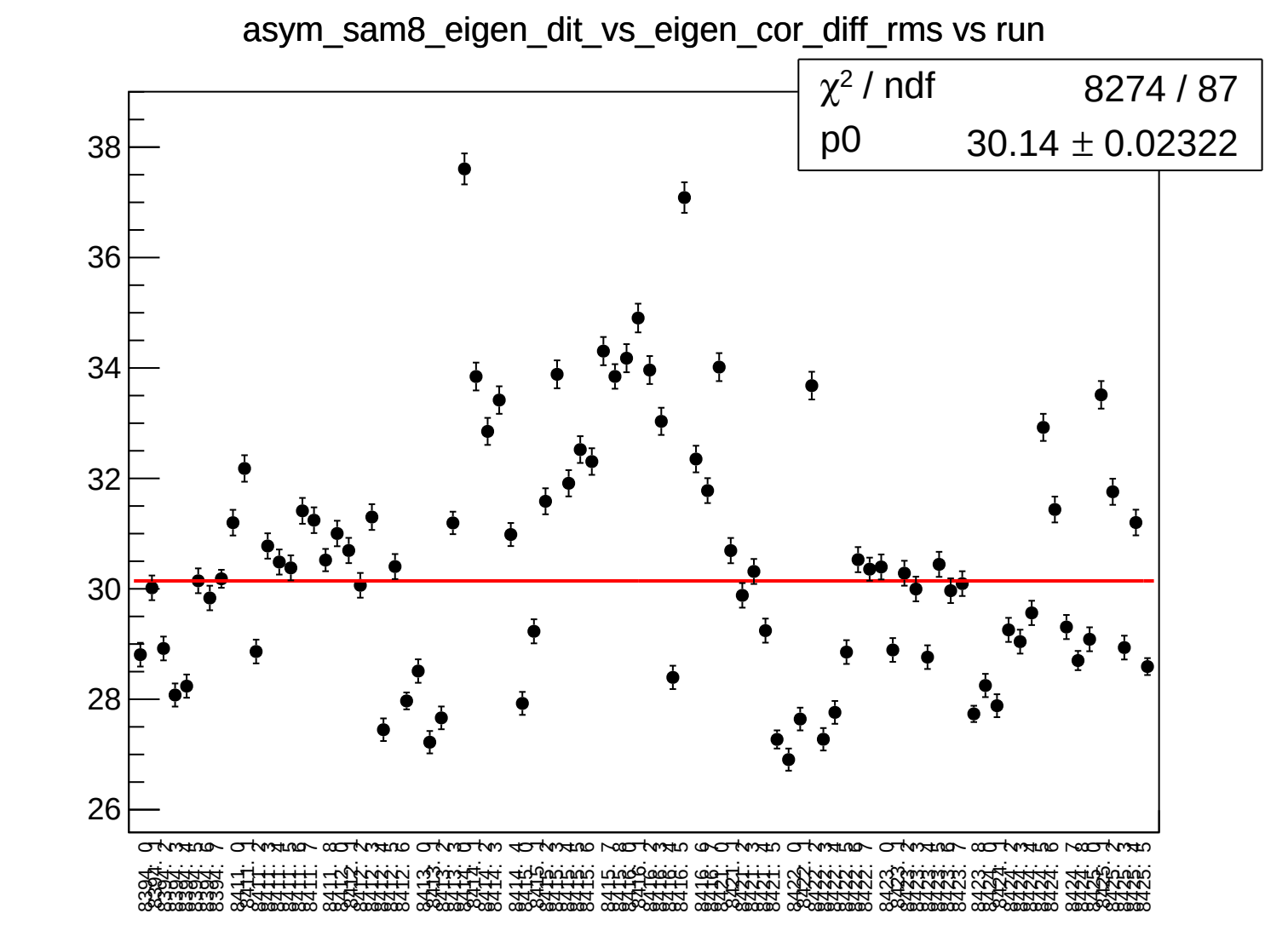

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.13 / 87
p0 −0.1899 ± 0.03284
pull
Entries 88
Mean 116
Std Dev 0

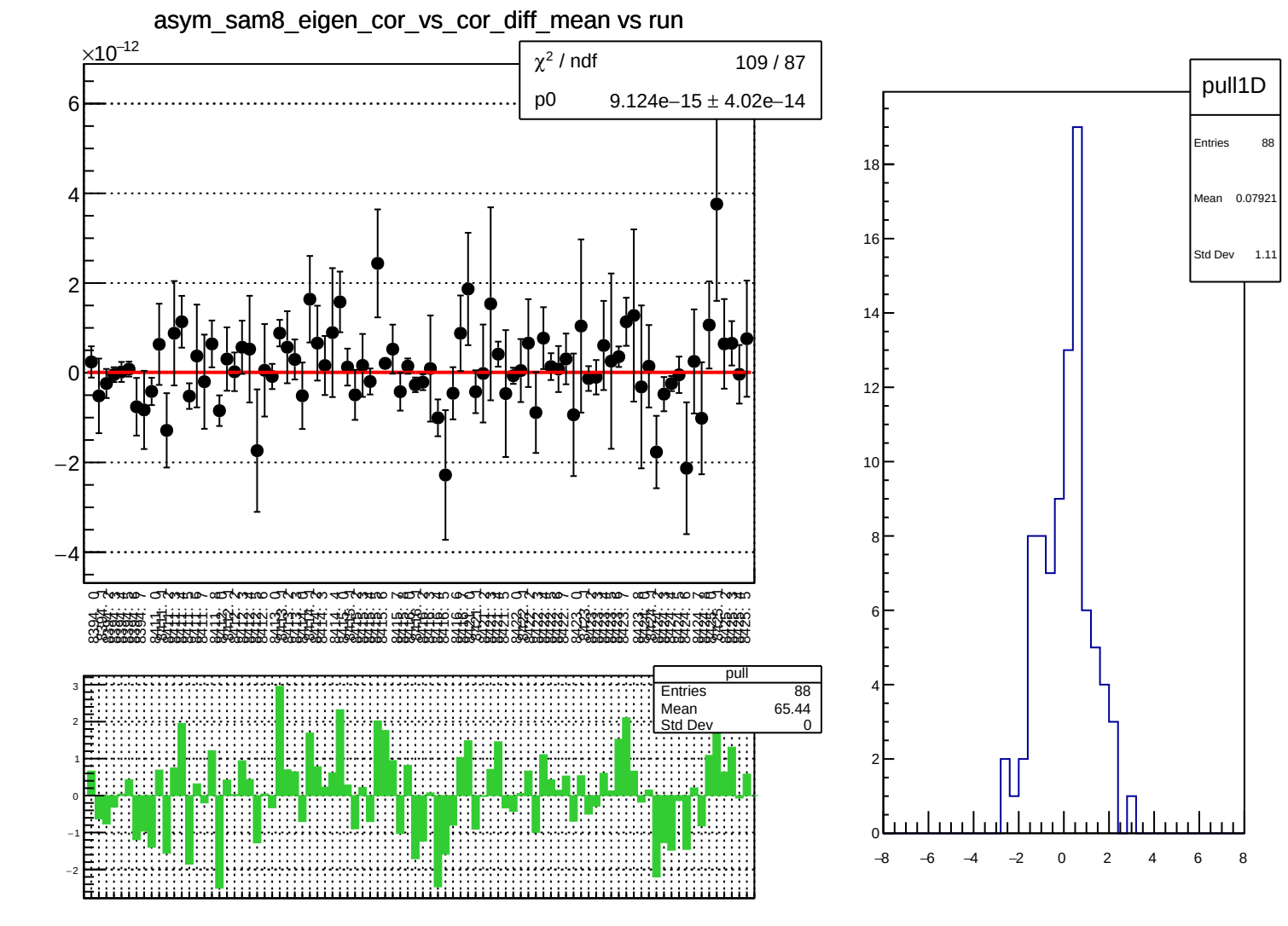

pull1D
Entries 88
Mean −0.02002
Std Dev 1.023

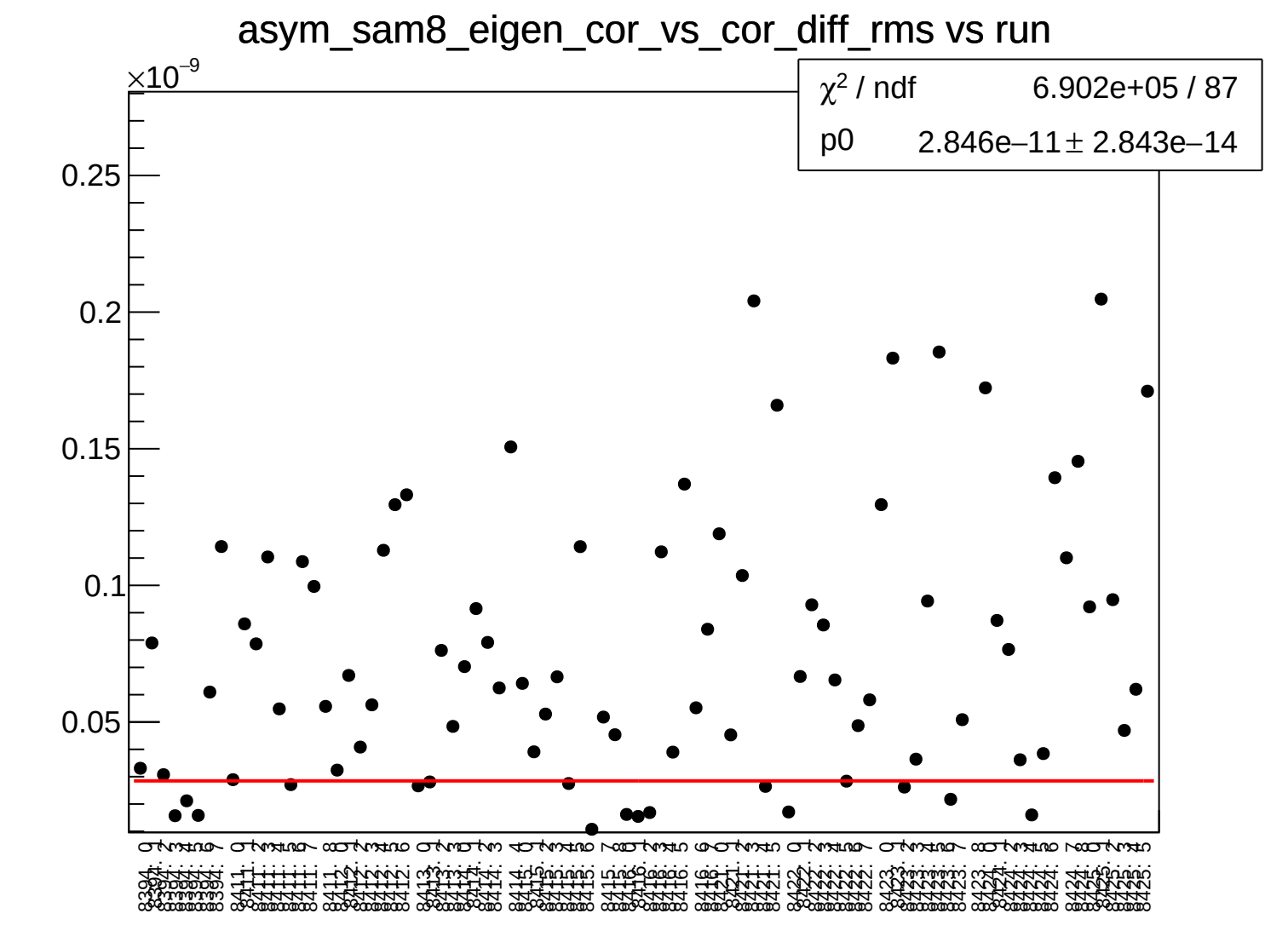

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8274 / 87
p0 30.14 ± 0.02322
38
36
34
32
30
28
26

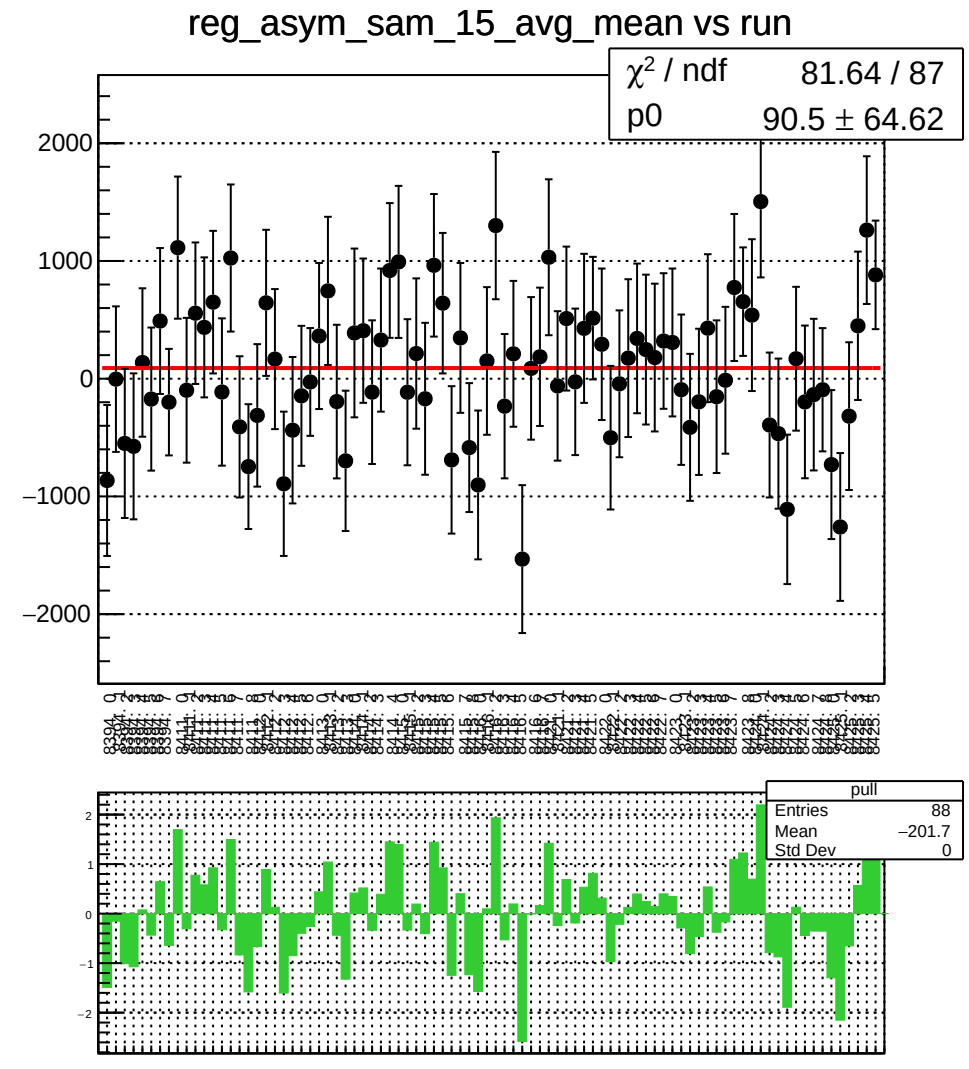

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.13 / 87
p0 −0.1899 ± 0.03284
pull
Entries 88
Mean 116
Std Dev 0

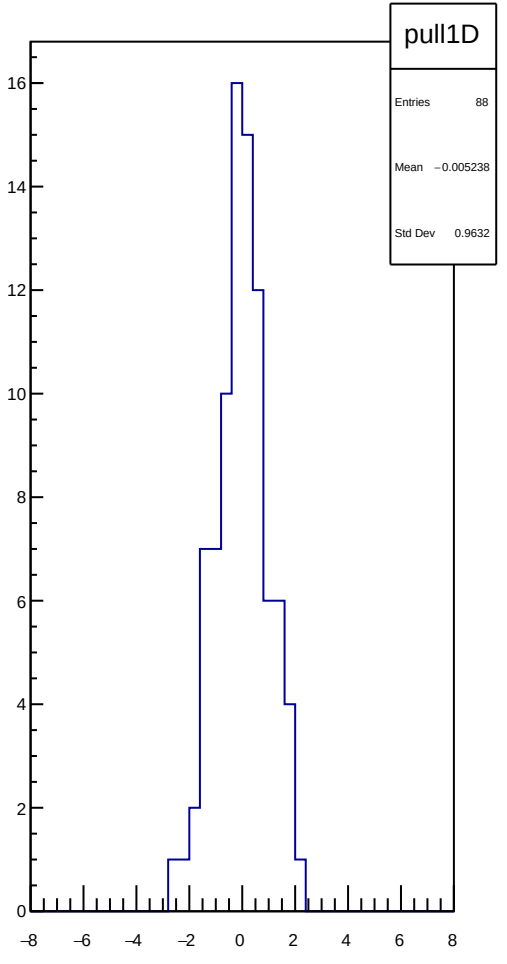

pull1D
Entries 88
Mean −0.02002
Std Dev 1.023

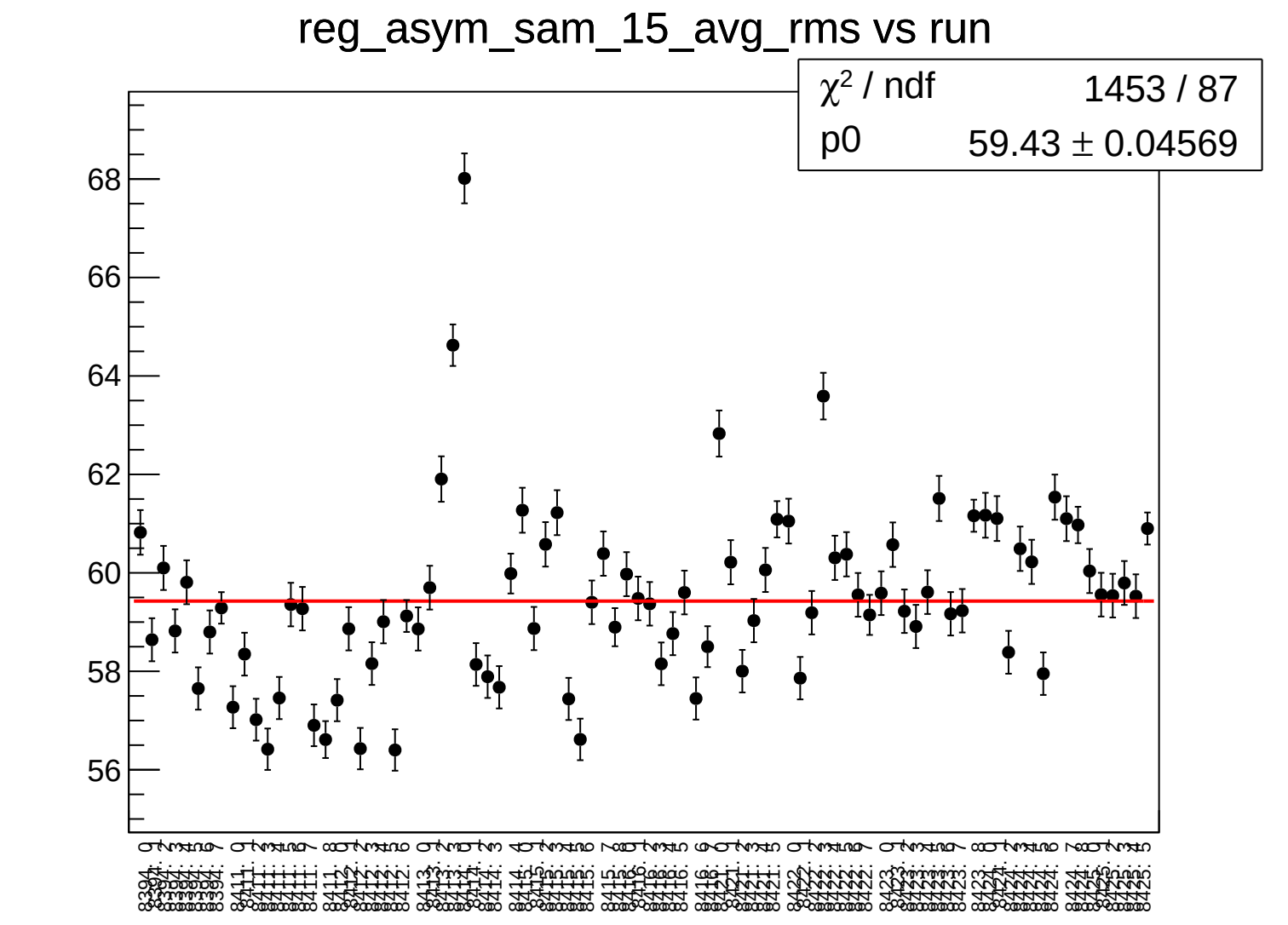

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8274 / 87
p0 30.14 ± 0.02322
38
36
34
32
30
28
26

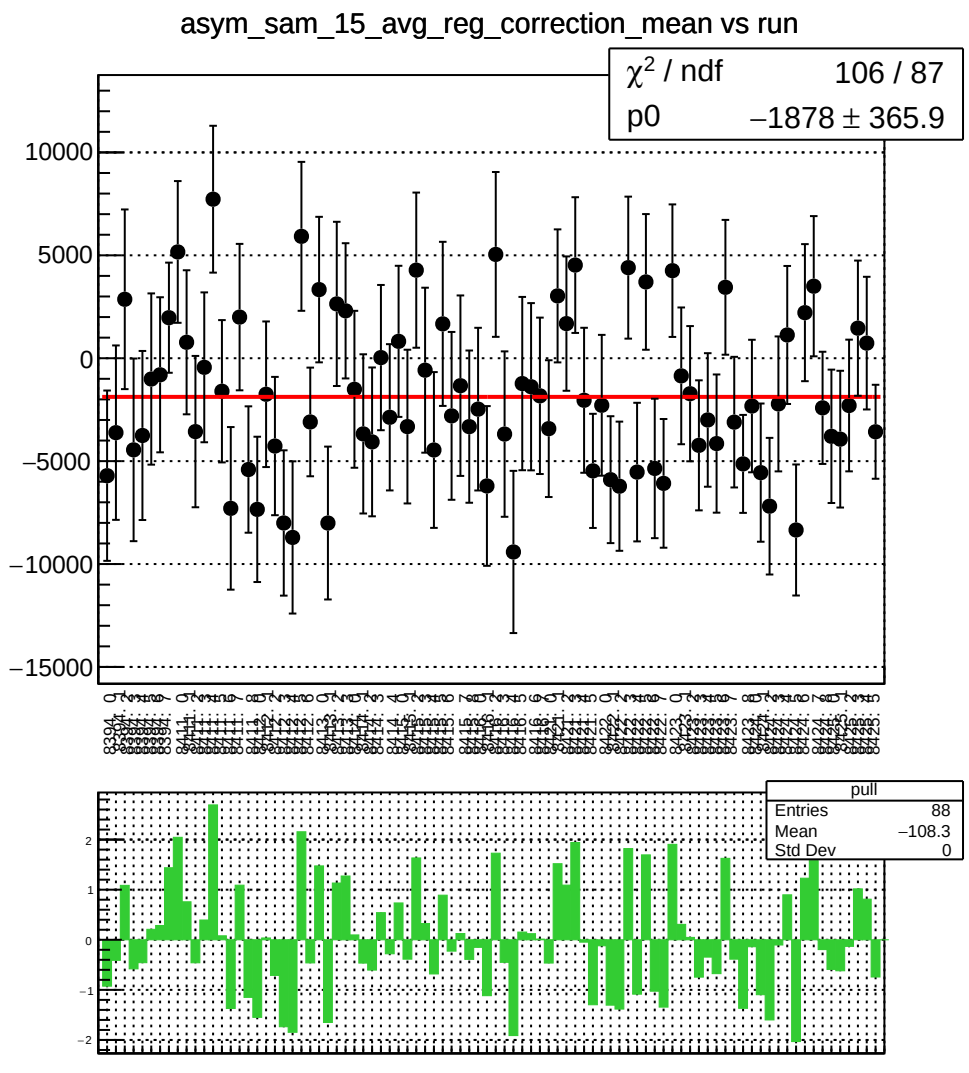

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 109 / 87
p0 9.124e−15 ± 4.02e−14
pull
Entries 88
Mean 65.44
Std Dev 0
pull1D
Entries 88
Mean 0.07921
Std Dev 1.11

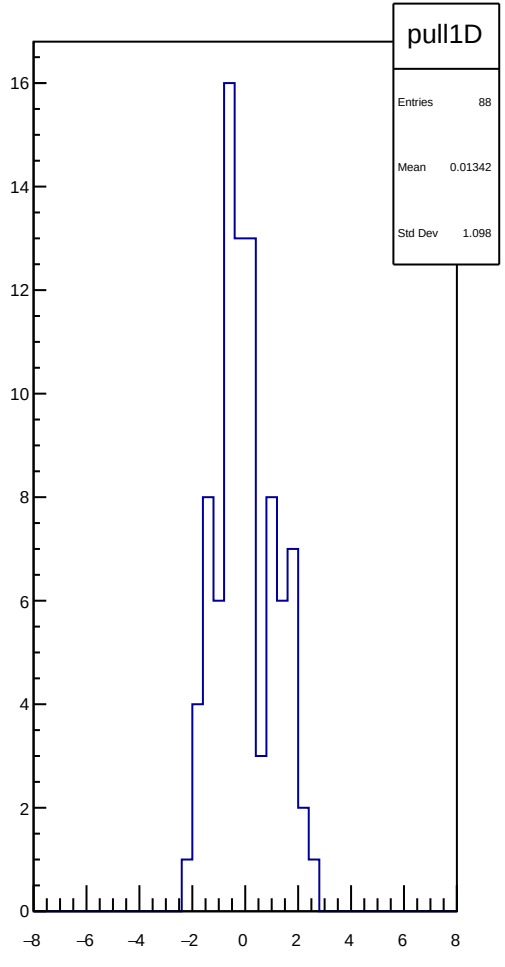

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.902e+05 / 87
p0 2.846e−11 ± 2.843e−14
0.25
0.2
0.15
0.1
0.05

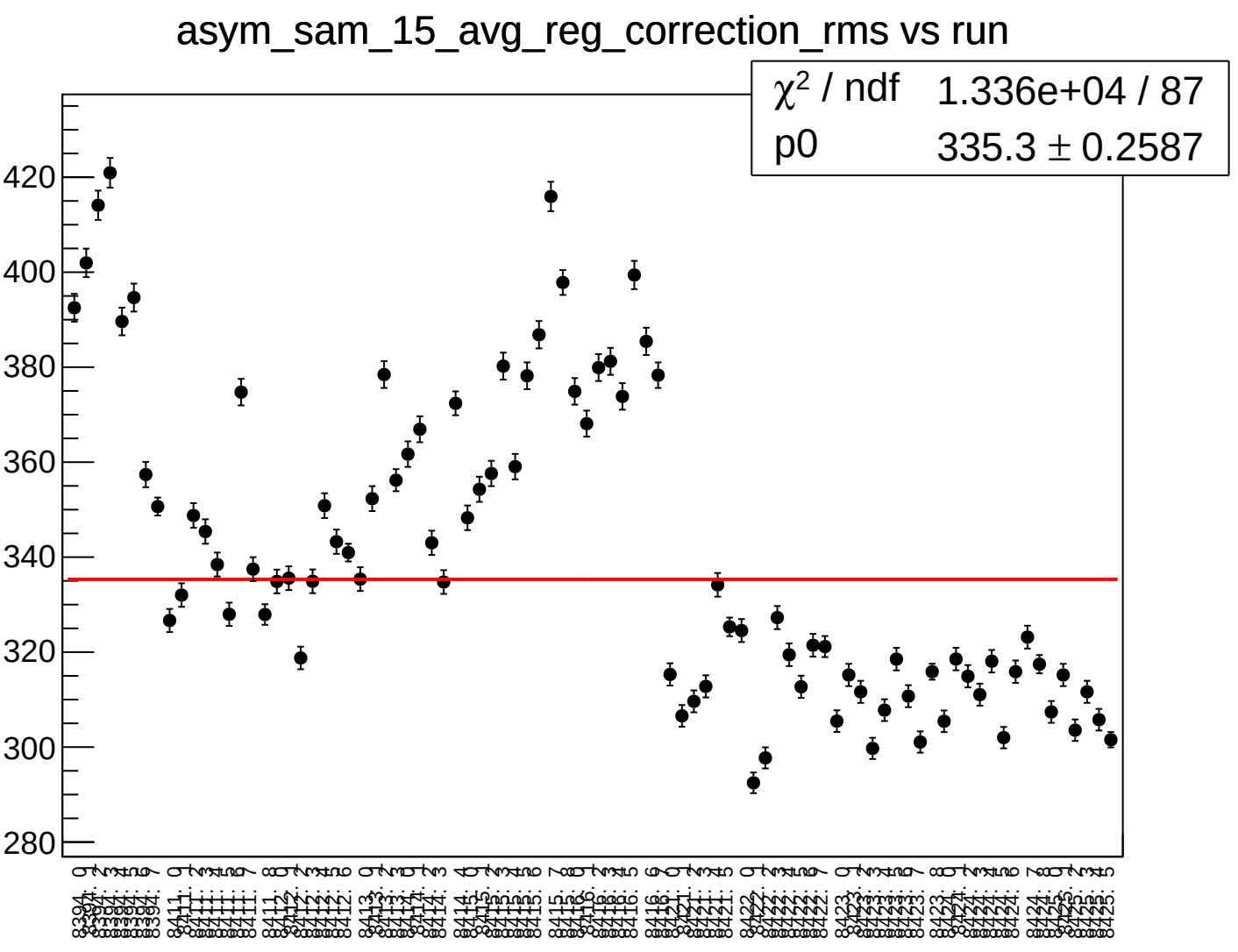

reg_asym_sam_15_avg_mean vs run
χ² / ndf 81.64 / 87
p0 90.5 ± 64.62
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −201.7
Std Dev 0
2
1
0
−1
−2

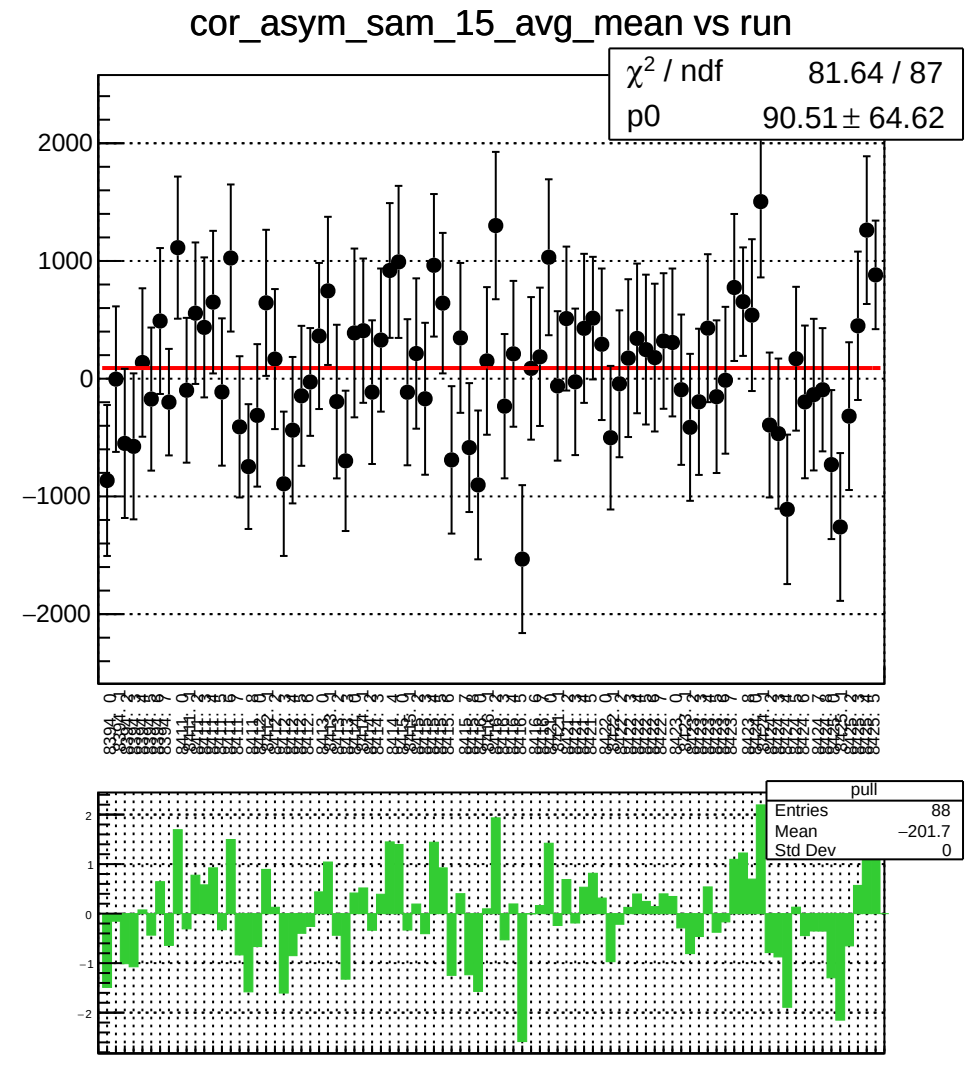

pull1D
Entries 88
Mean −0.005238
Std Dev 0.9632
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

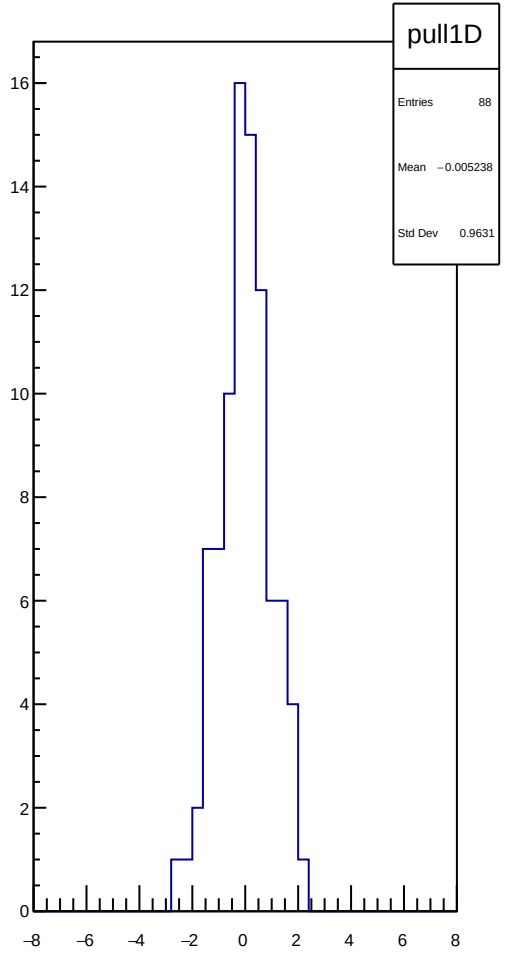

reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 1453 / 87
p0 59.43 ± 0.04569
68
66
64
62
60
58
56

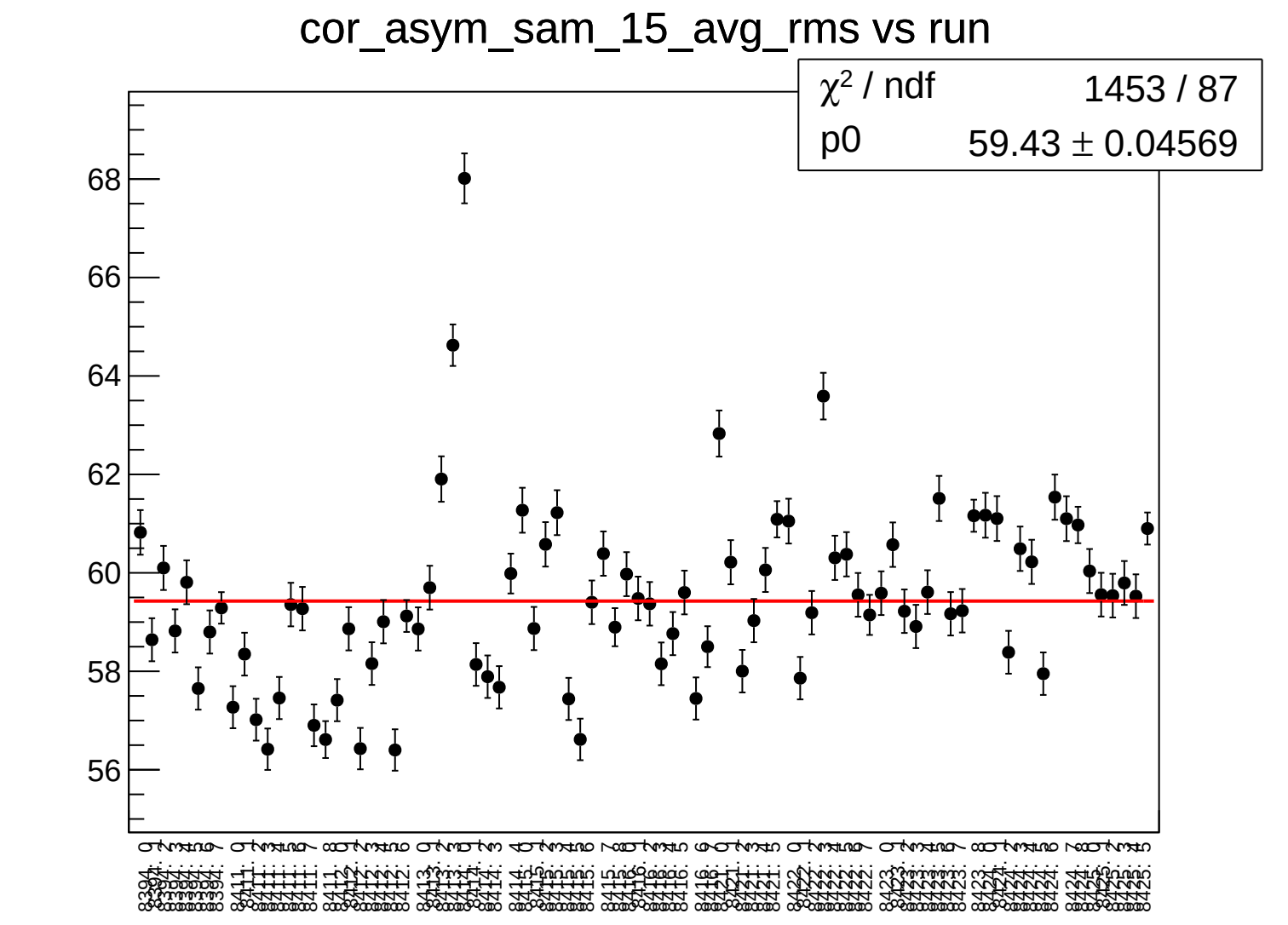

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 106 / 87
p0 −1878 ± 365.9
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −108.3
Std Dev 0
2
1
0
−1
−2

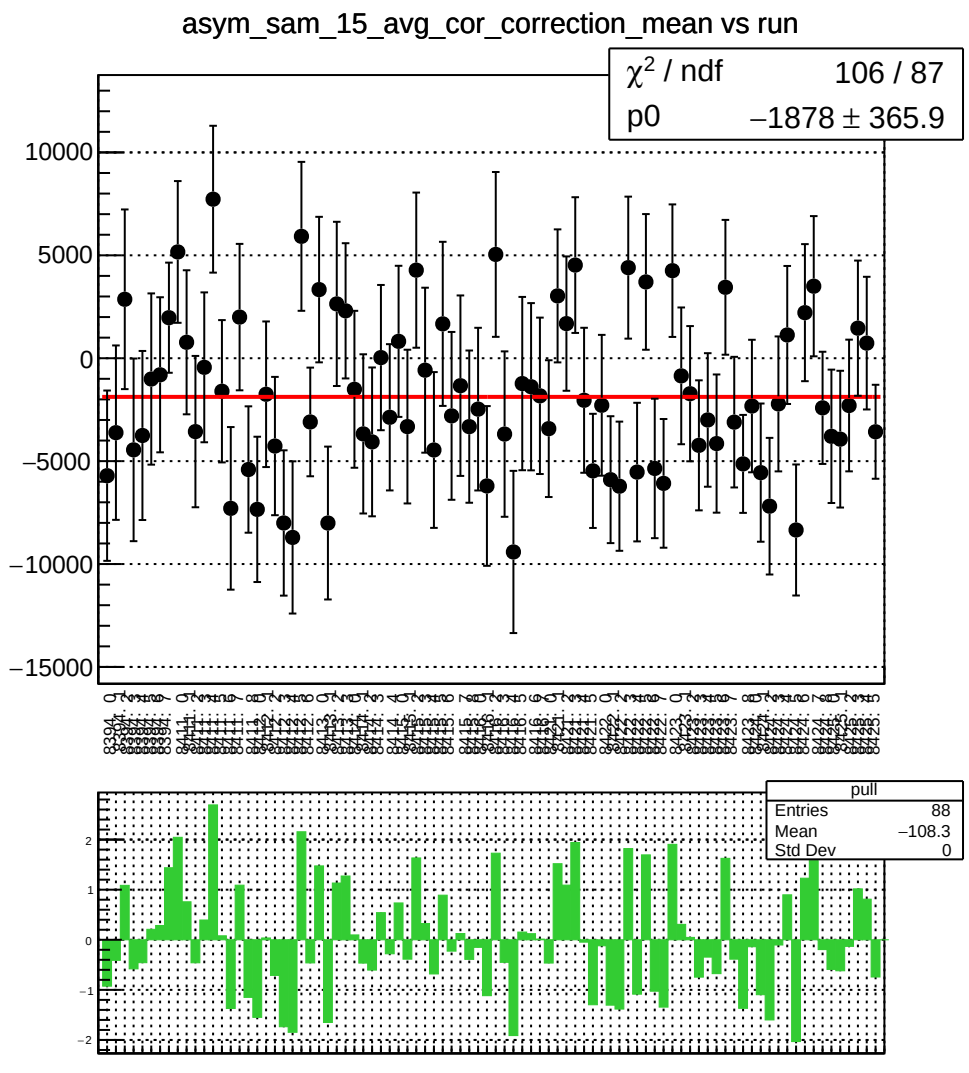

pull1D
Entries 88
Mean 0.01342
Std Dev 1.098
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

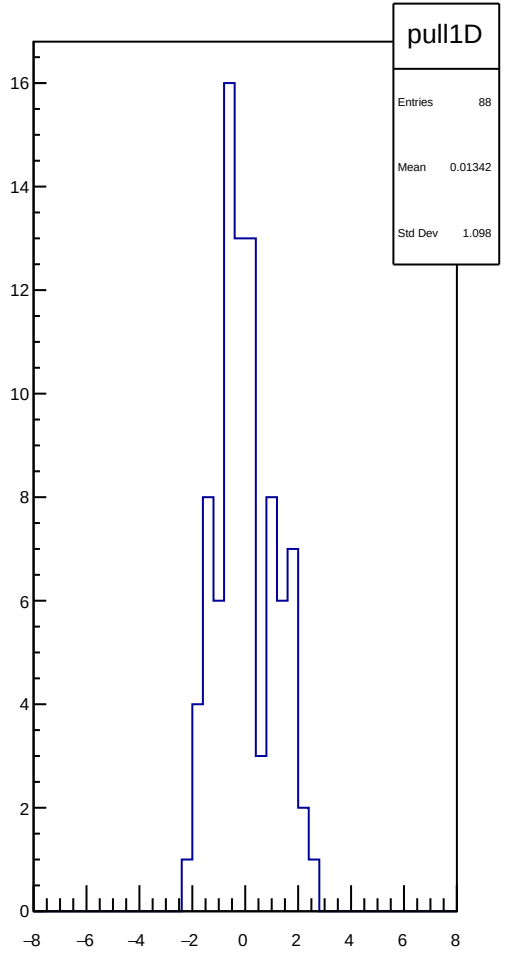

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 1.336e+04 / 87
p0 335.3 ± 0.2587
420
400
380
360
340
320
300
280

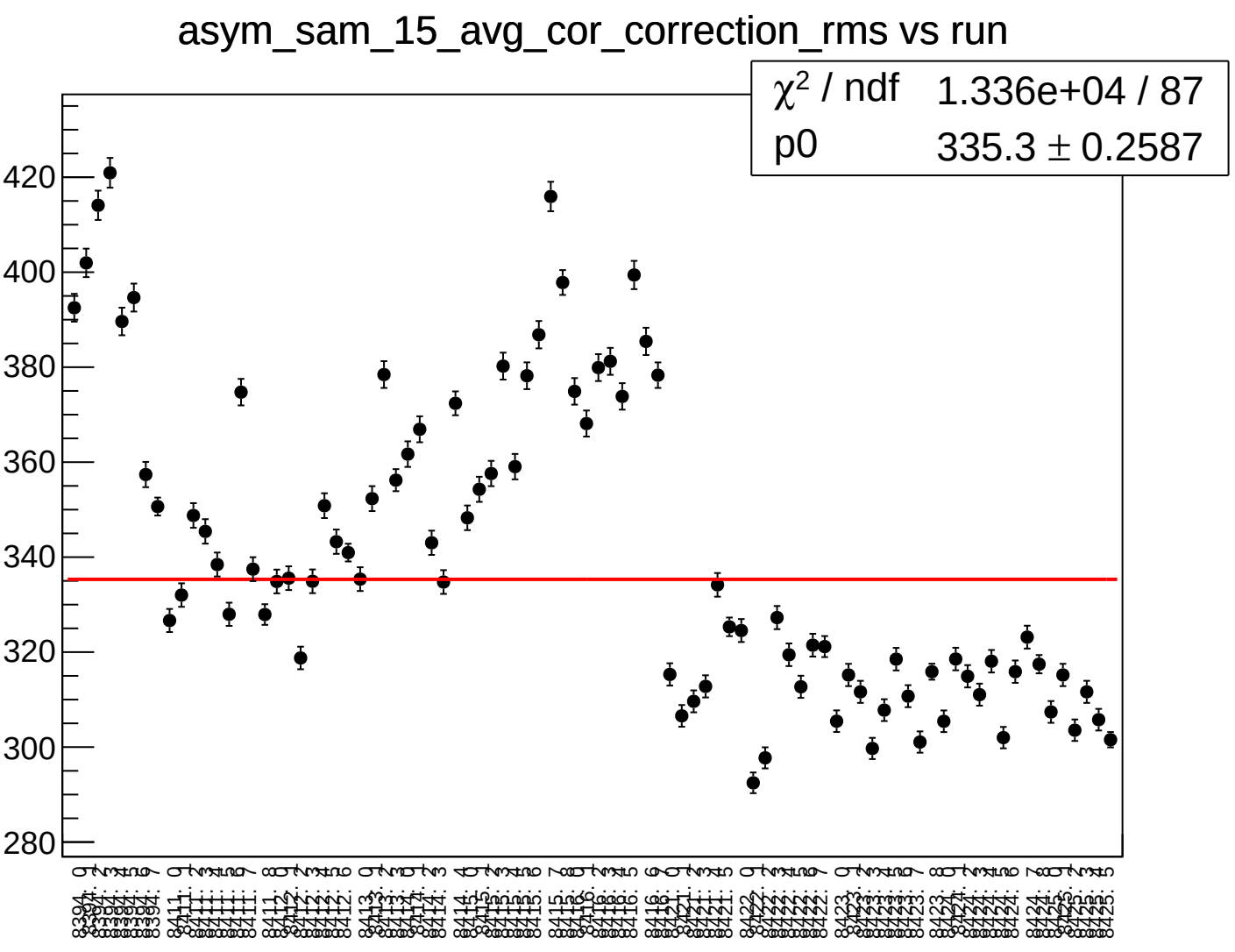

cor_asym_sam_15_avg_mean vs run
χ² / ndf 81.64 / 87
p0 90.51 ± 64.62
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −201.7
Std Dev 0
2
1
0
−1
−2

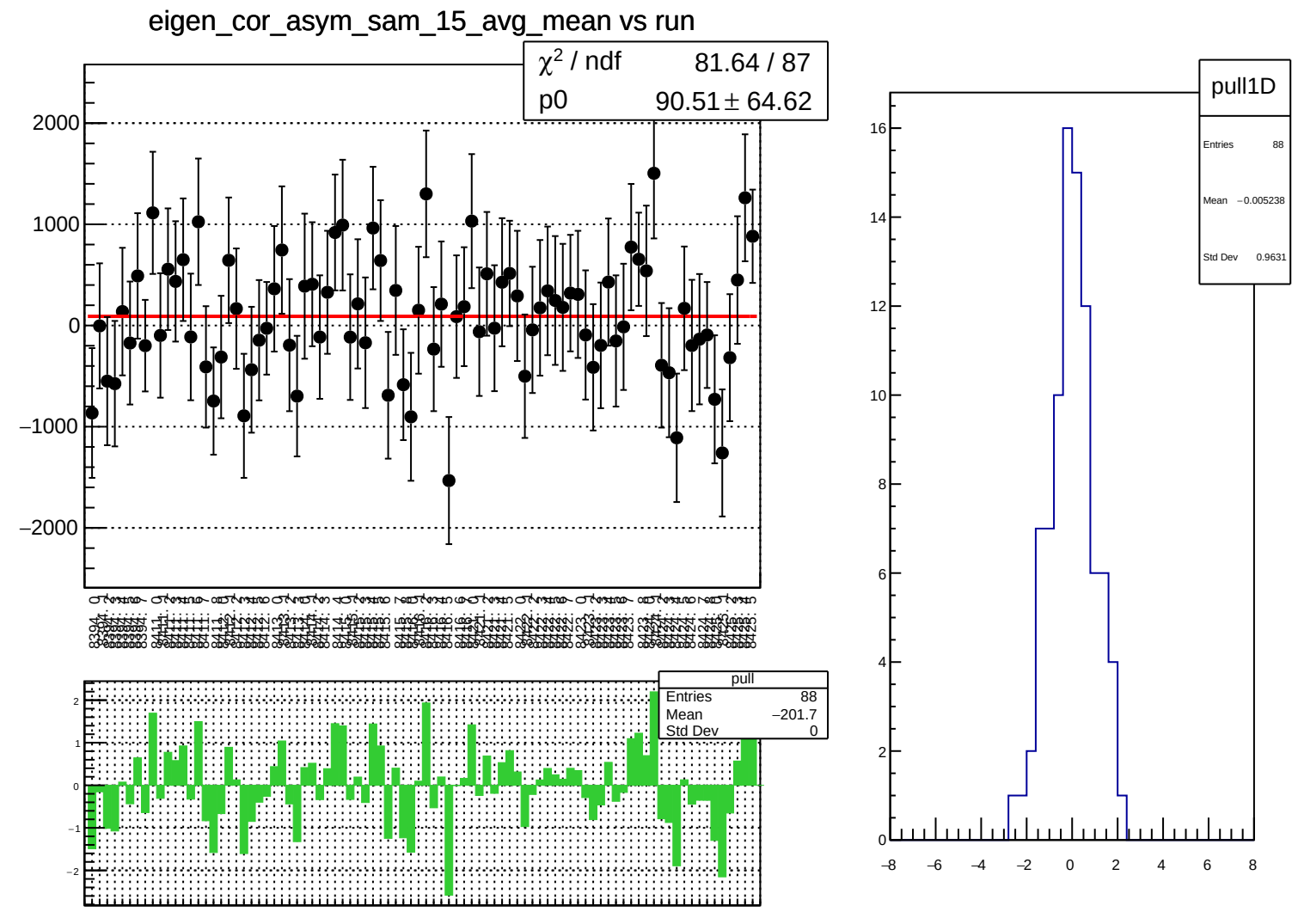

pull1D
Entries 88
Mean −0.005238
Std Dev 0.9631
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_15_avg_rms vs run
χ² / ndf 1453 / 87
p0 59.43 ± 0.04569
68
66
64
62
60
58
56

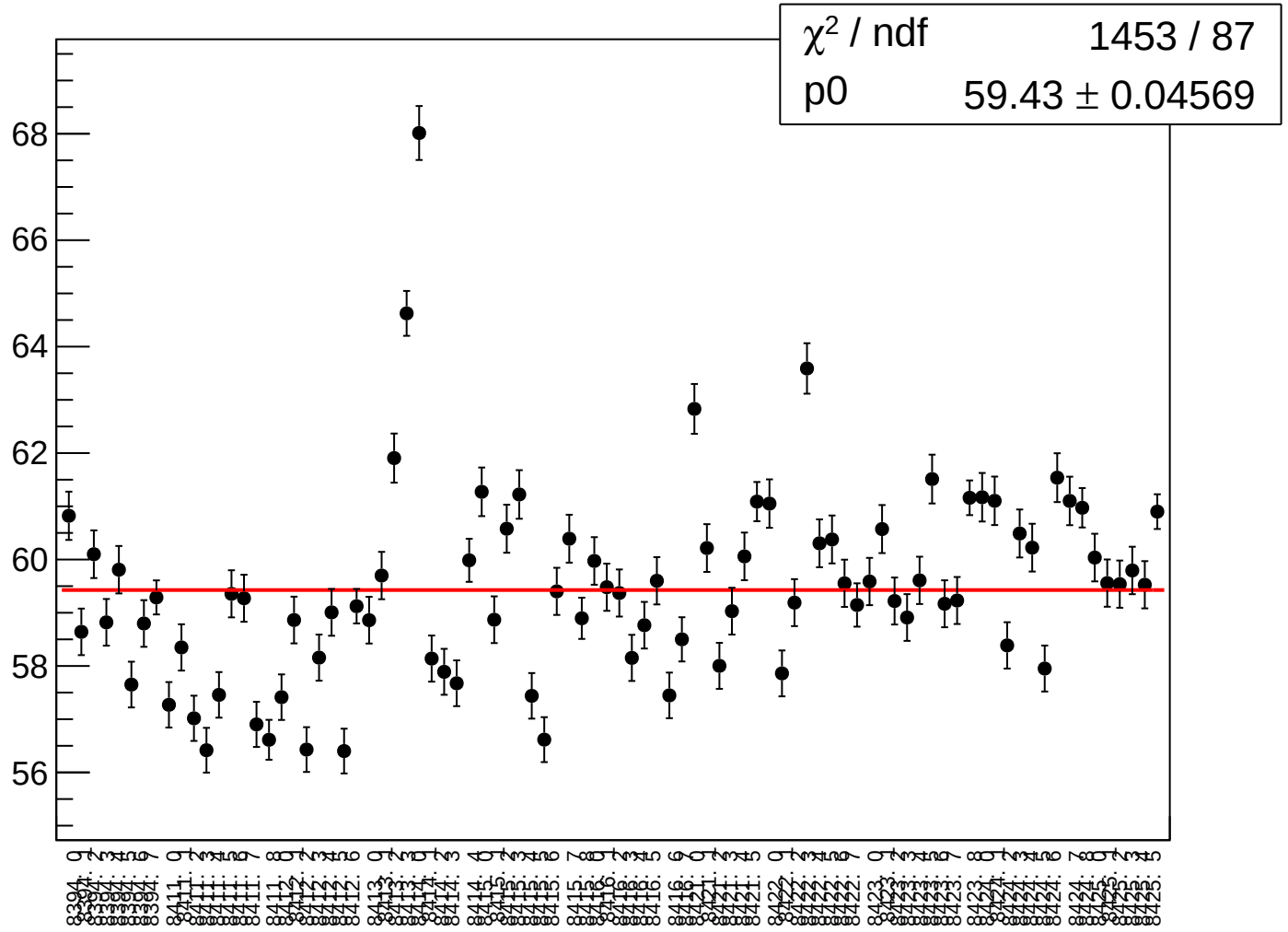

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 106 / 87
p0 −1878 ± 365.9
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −108.3
Std Dev 0
2
1
0
−1
−2

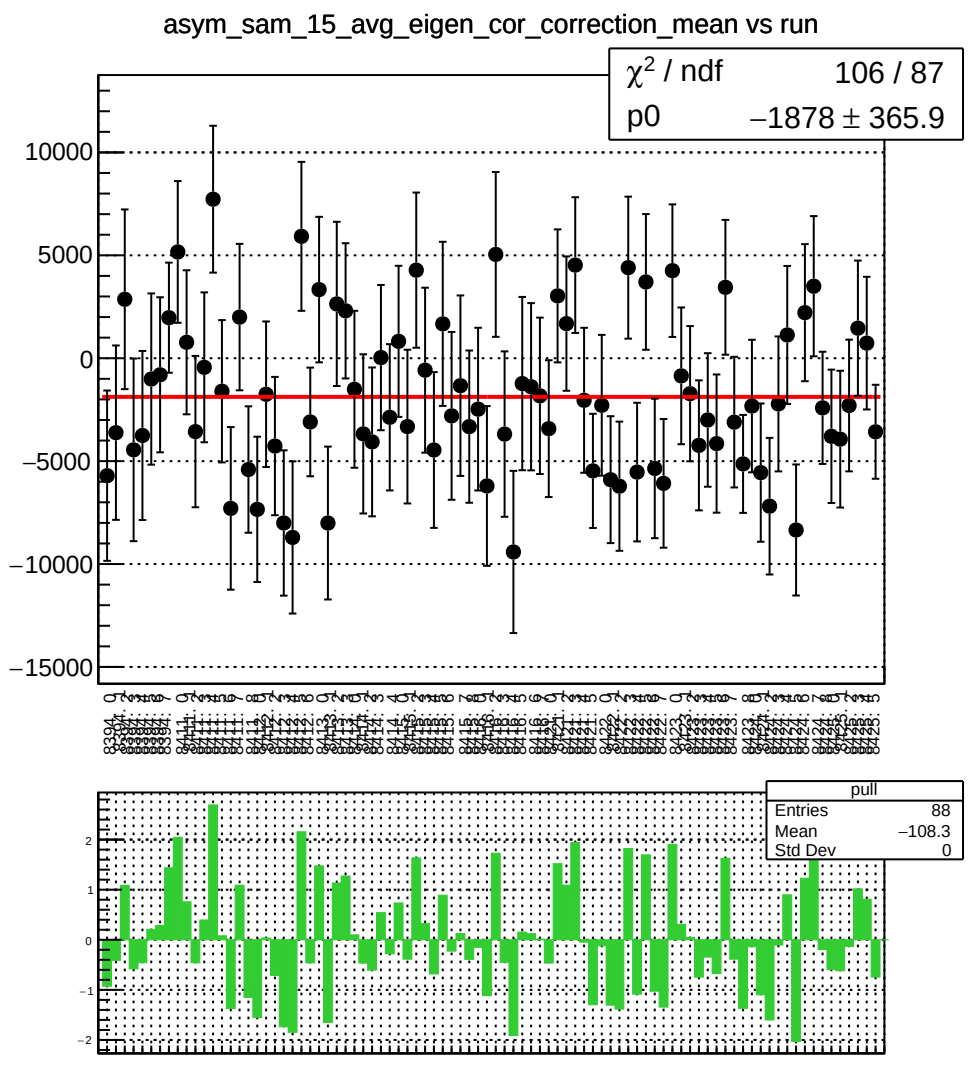

pull1D
Entries 88
Mean 0.01342
Std Dev 1.098
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

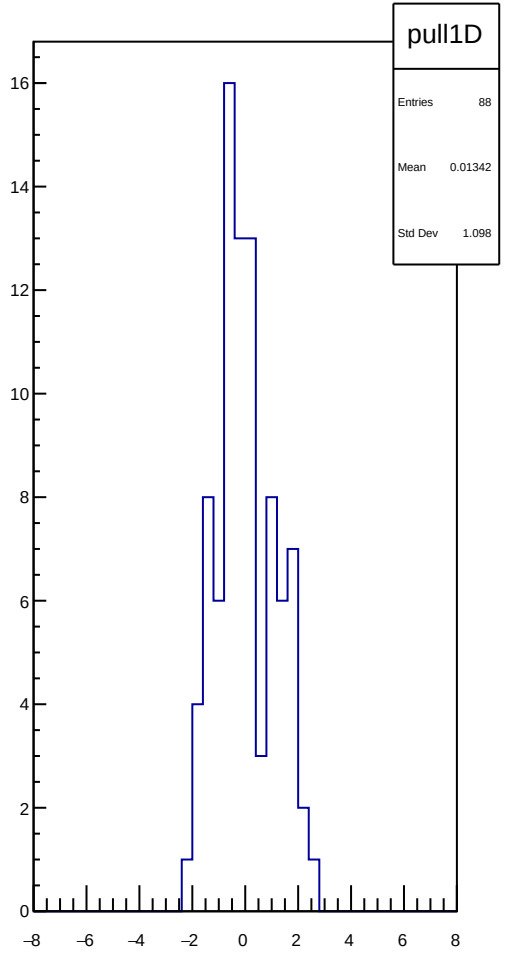

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 1.336e+04 / 87
p0 335.3 ± 0.2587
420
400
380
360
340
320
300
280

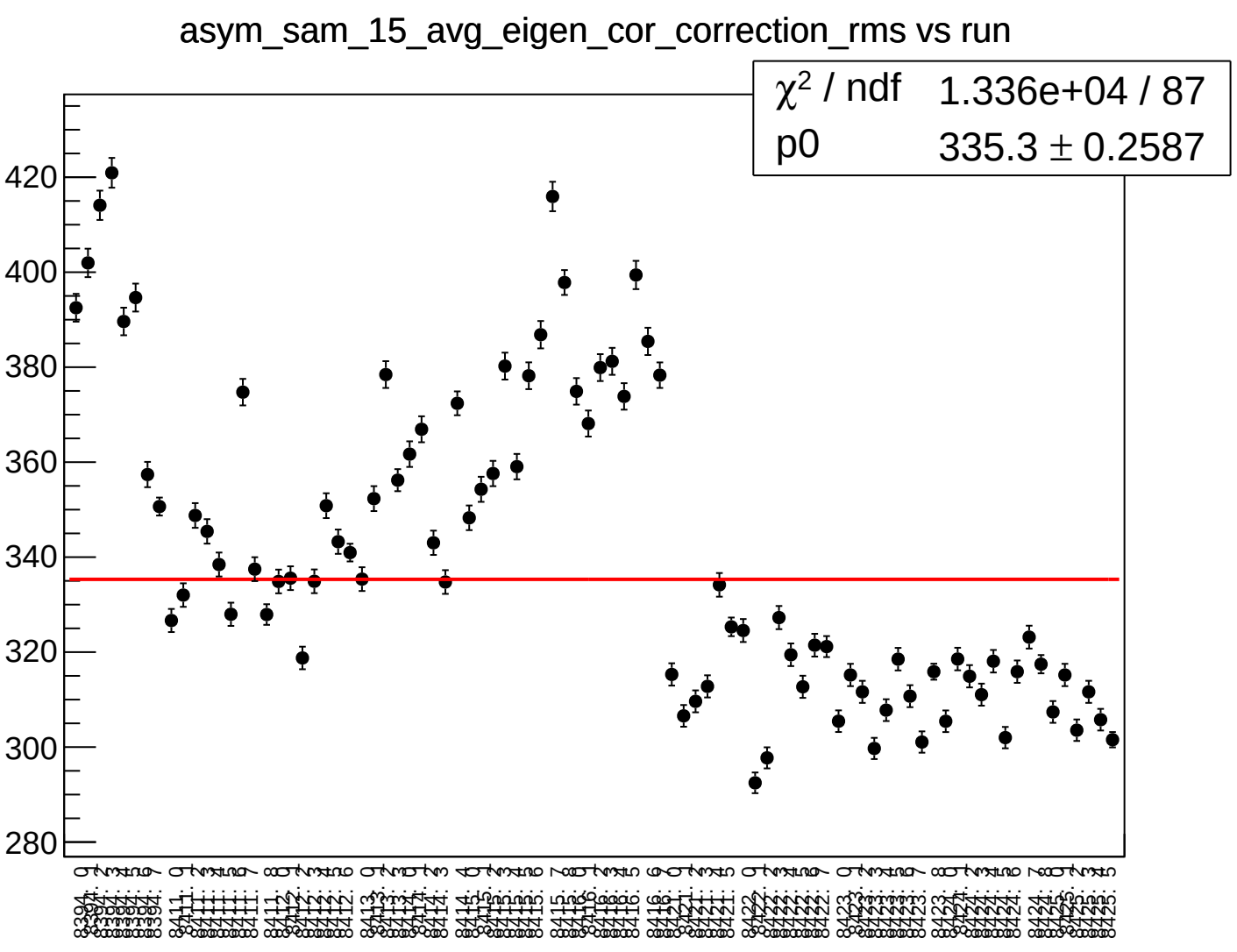

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 81.64 / 87
p0 90.51 ± 64.62
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −201.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.005238
Std Dev 0.9631
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

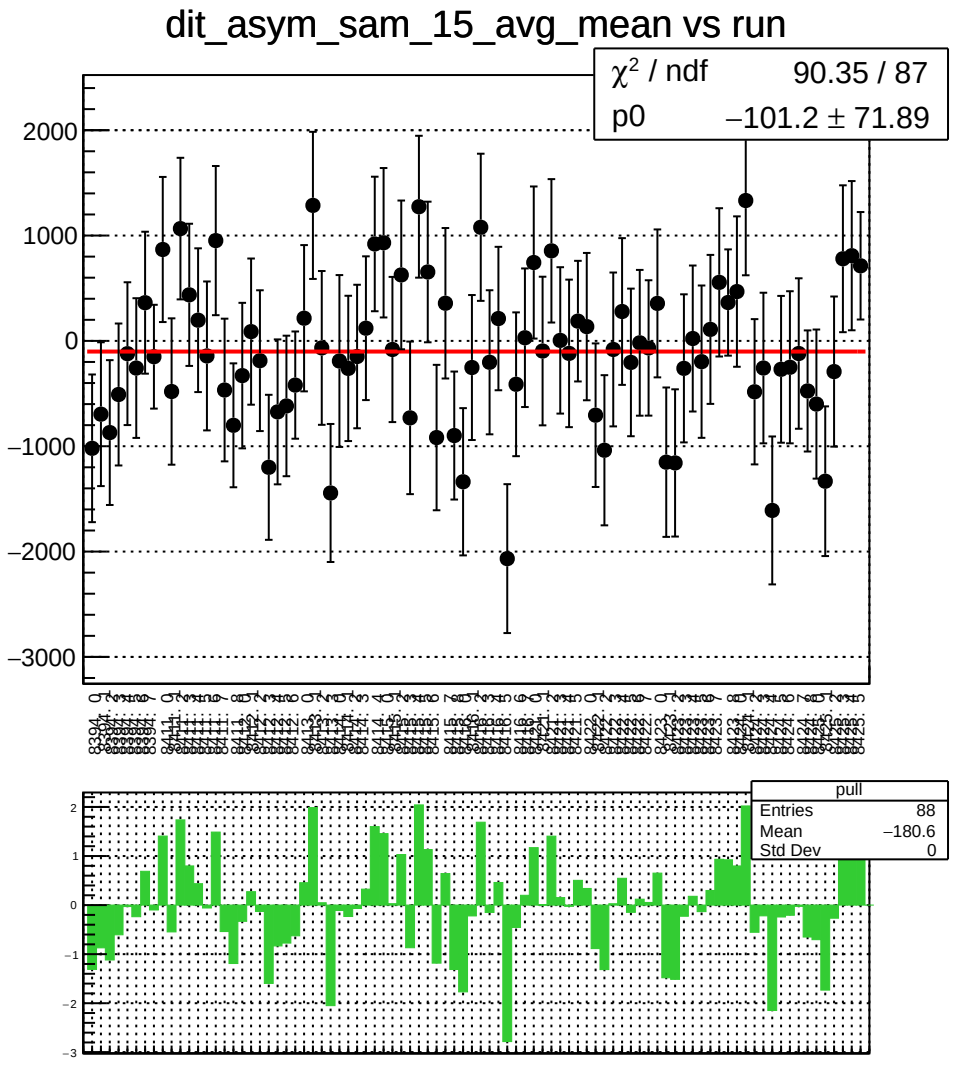
eigen_cor_asym_sam_15_avg_rms vs run

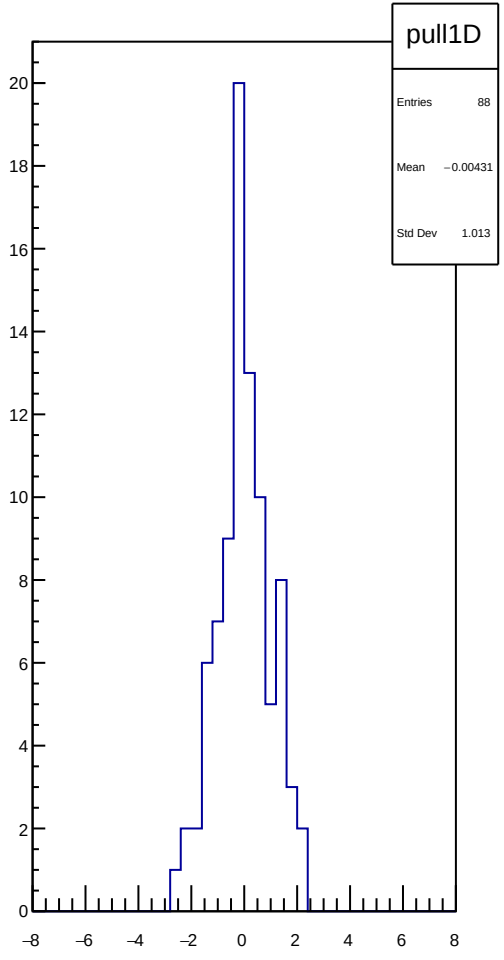


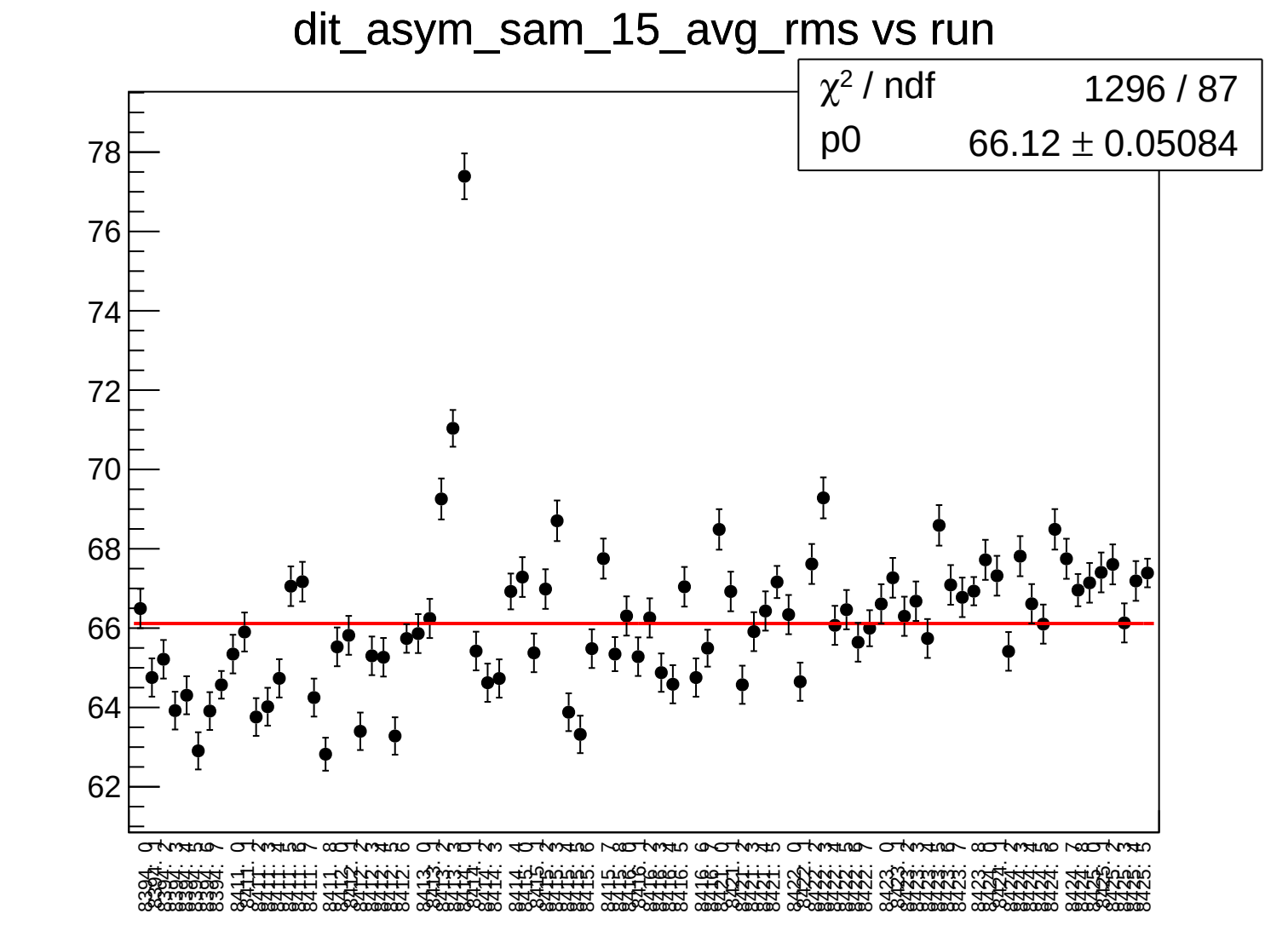

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 106 / 87
p0 −1878 ± 365.9
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −108.3
Std Dev 0
2
1
0
−1
−2

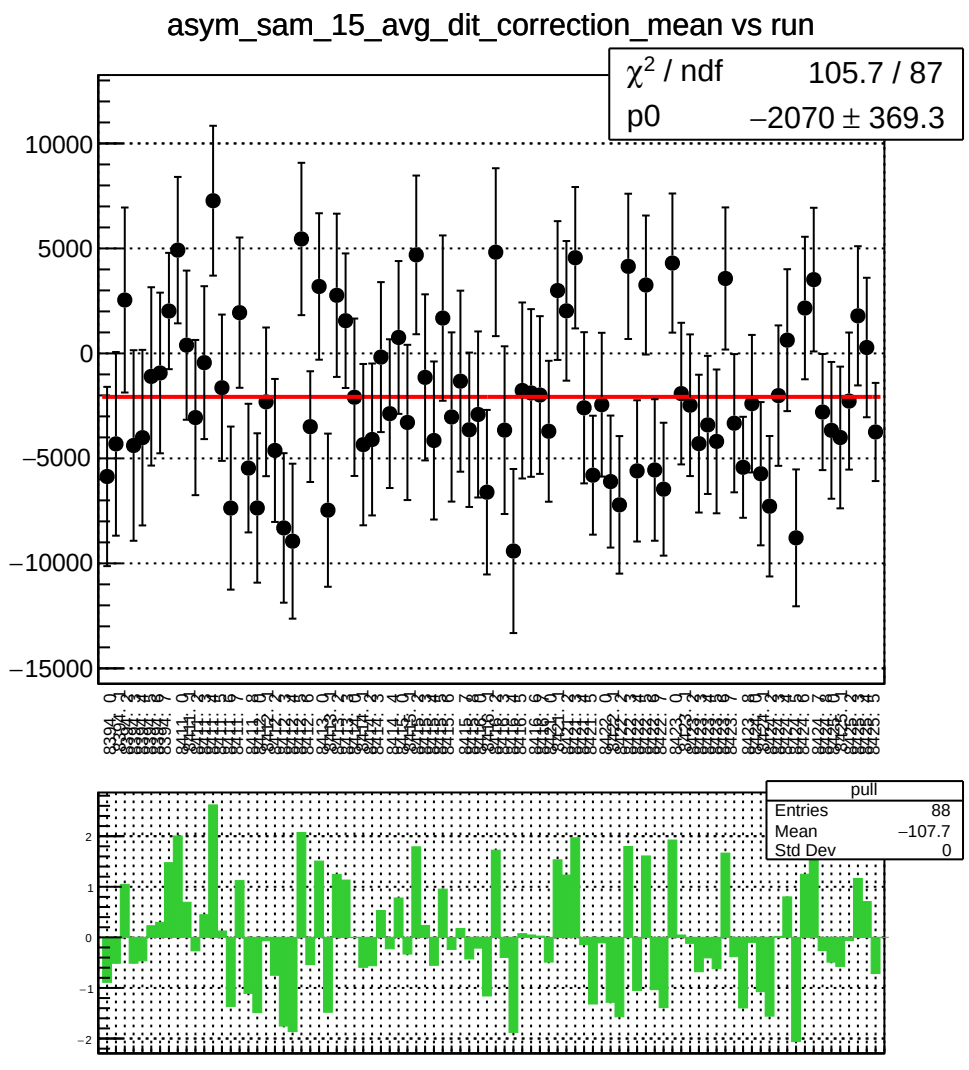

pull1D
Entries 88
Mean 0.01342
Std Dev 1.098
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

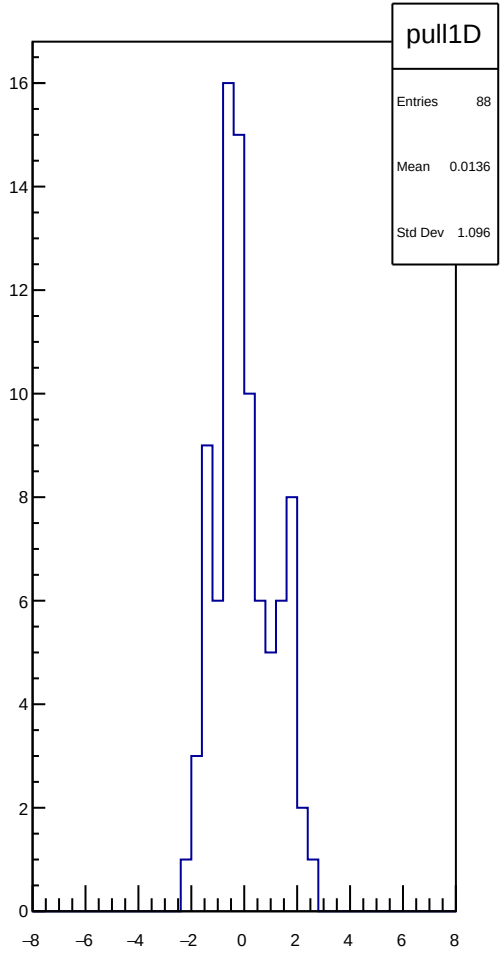

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.336e+04 / 87
p0 335.3 ± 0.2587
420
400
380
360
340
320
300
280

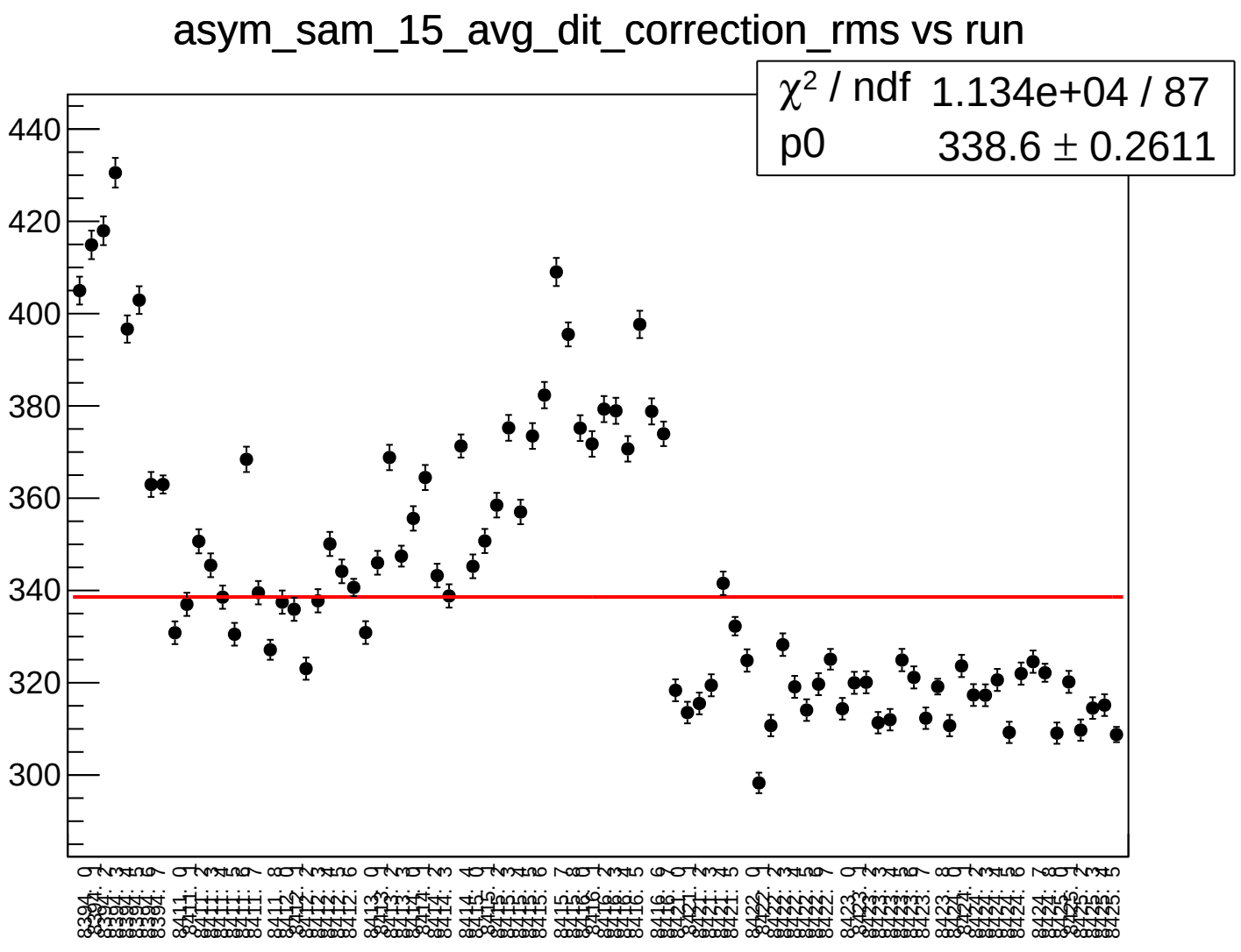

dit_asym_sam_15_avg_mean vs run
χ² / ndf 90.35 / 87
p0 −101.2 ± 71.89
pull
Entries 88
Mean −180.6
Std Dev 0

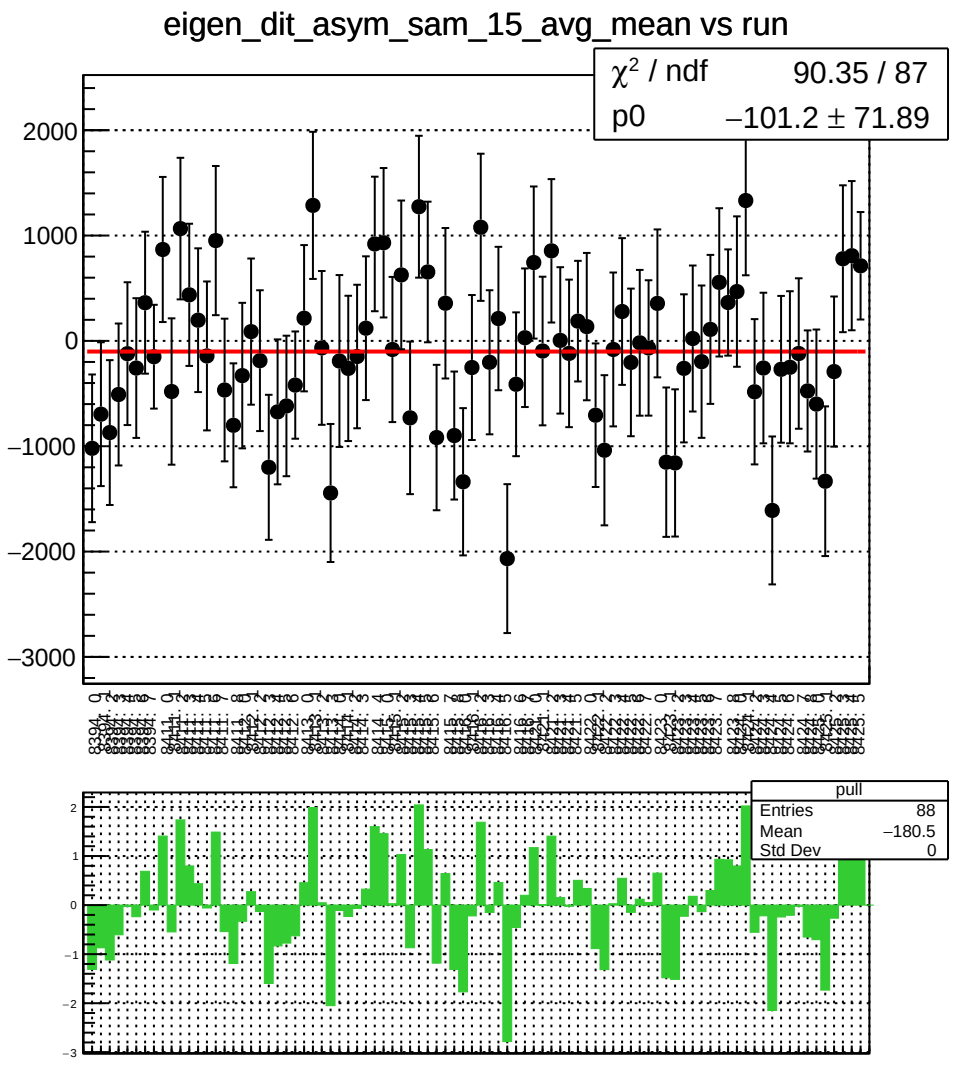

pull1D
Entries 88
Mean −0.00431
Std Dev 1.013

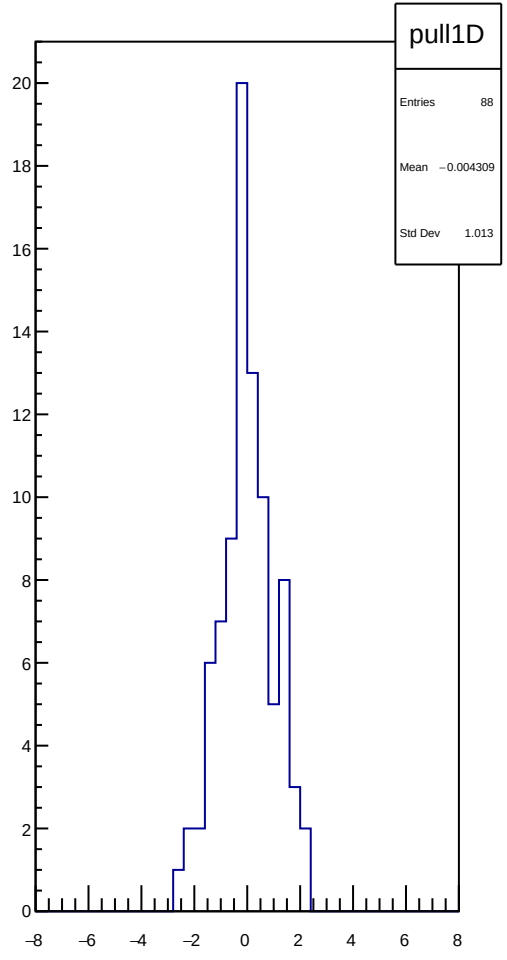

dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 1296 / 87
p0 66.12 ± 0.05084
78
76
74
72
70
68
66
64
62

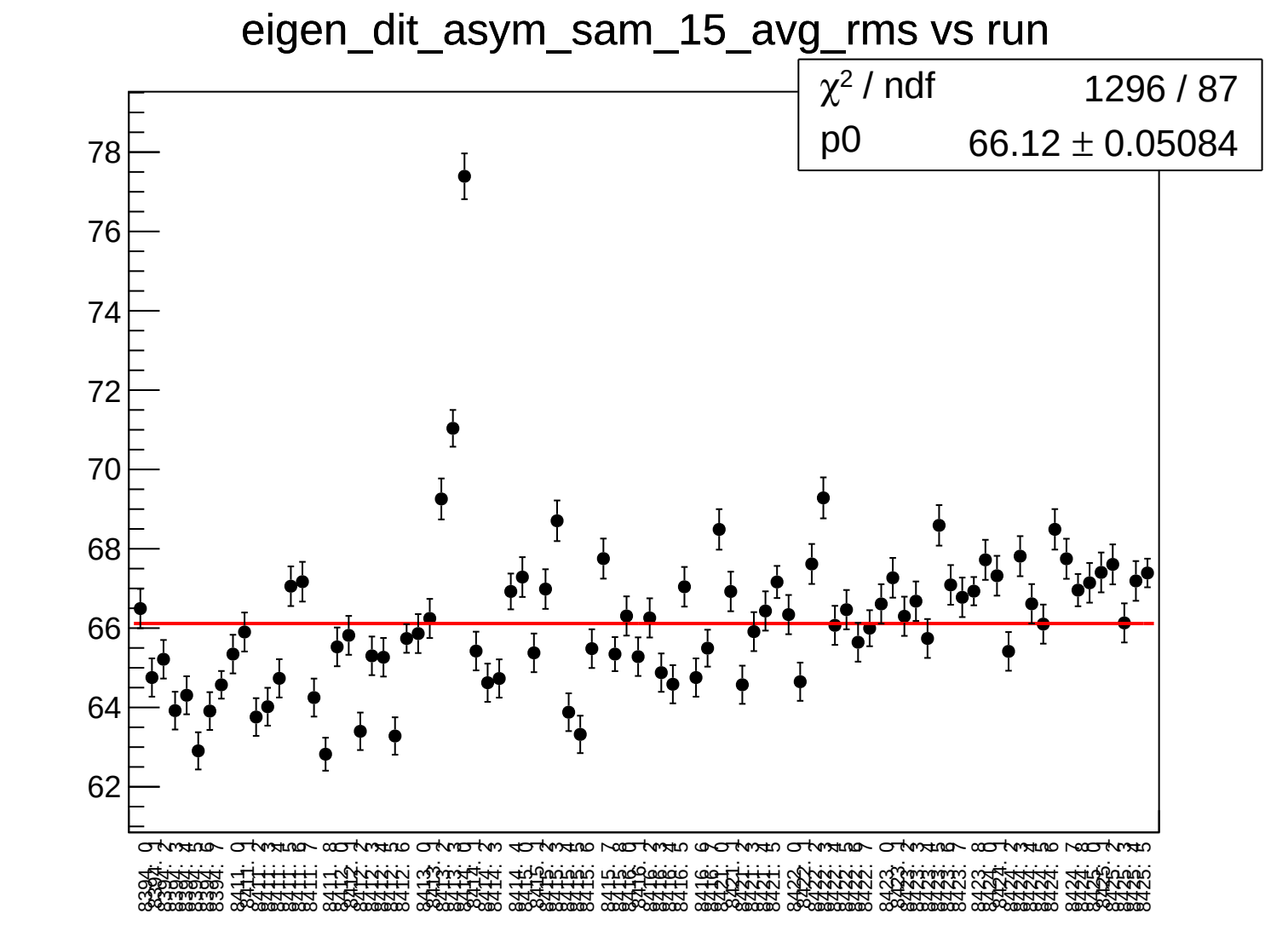

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 105.7 / 87
p0 −2070 ± 369.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −107.7
Std Dev 0
2
1
0
−1
−2

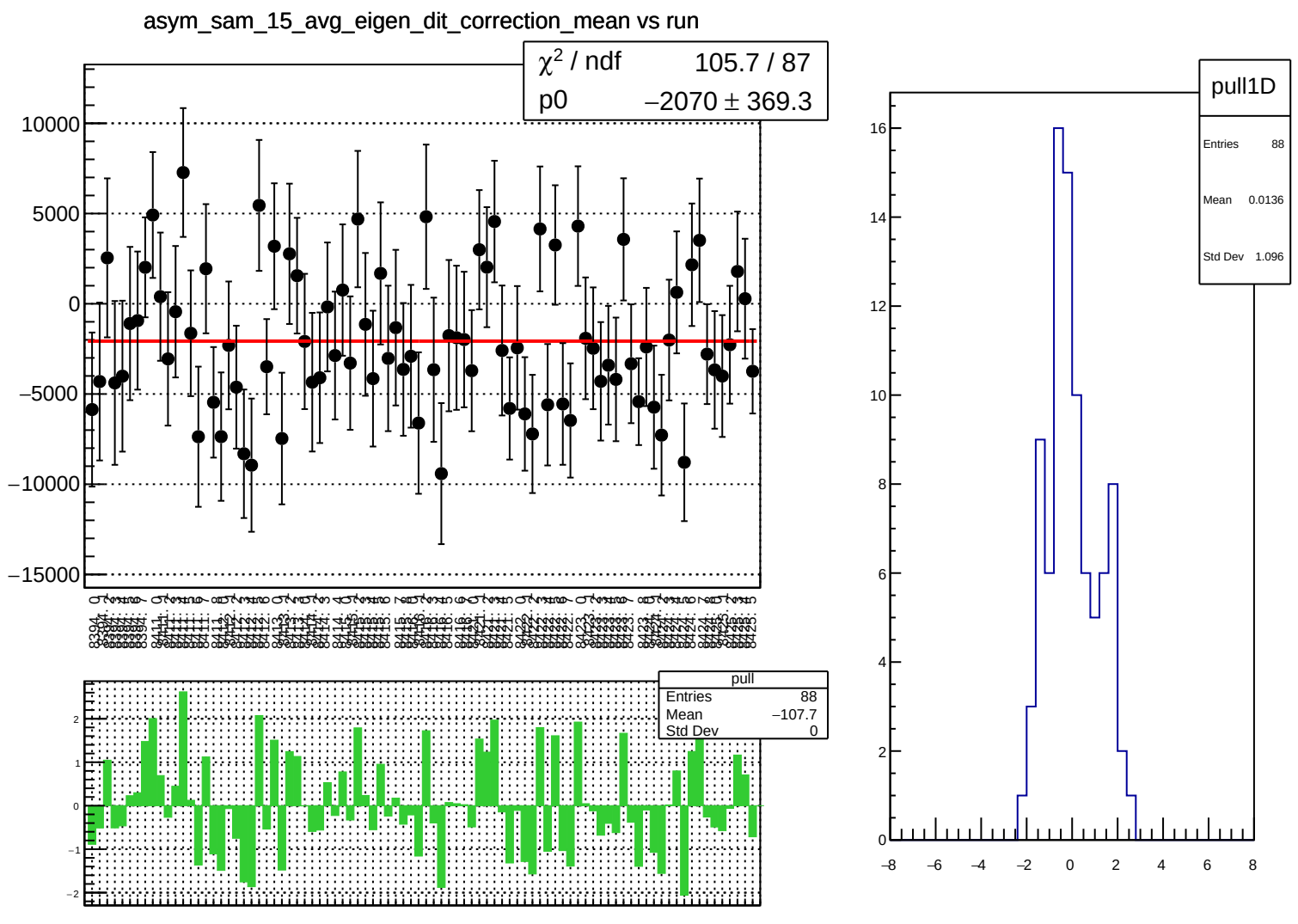

pull1D
Entries 88
Mean 0.0136
Std Dev 1.096
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

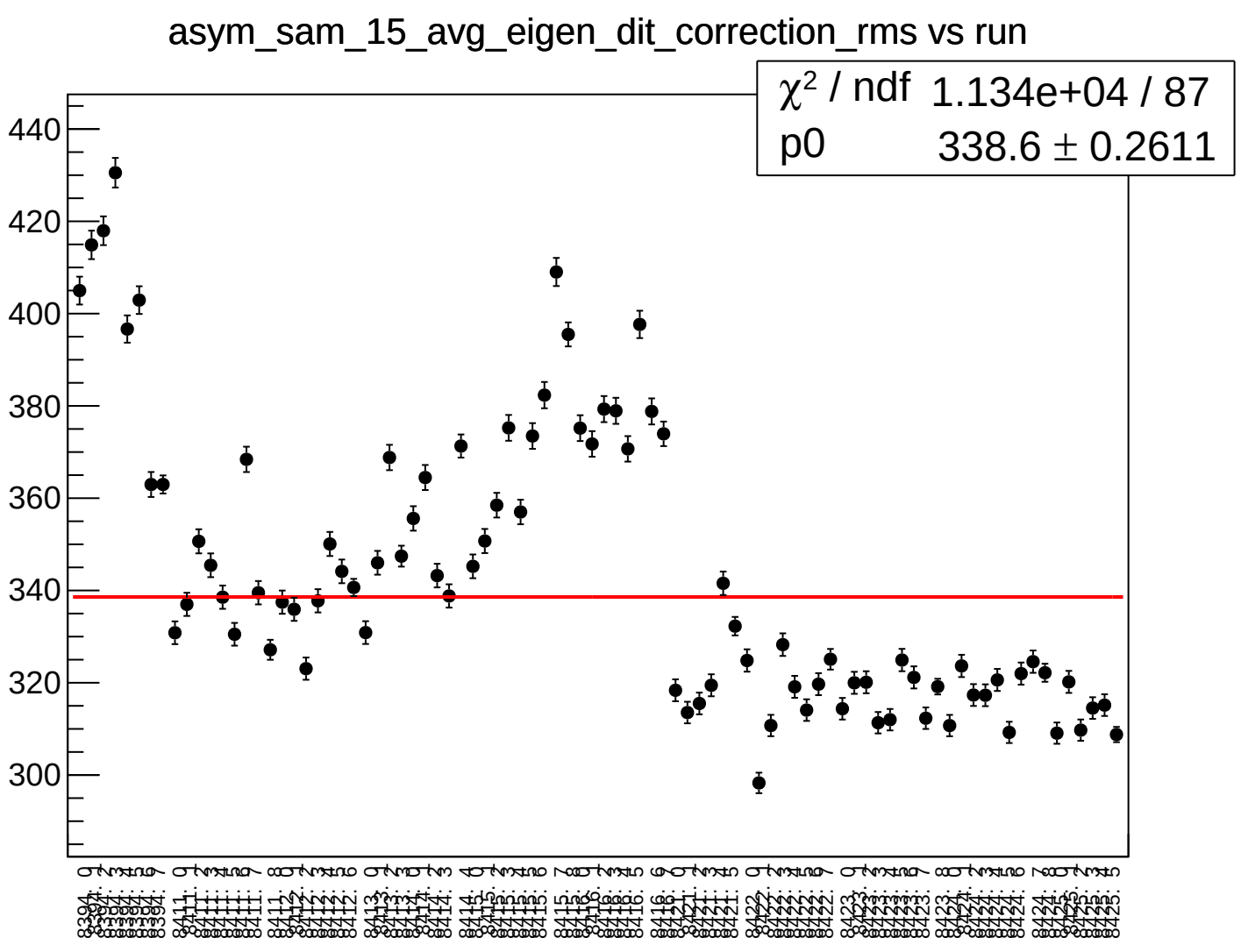

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 1.134e+04 / 87
p0 338.6 ± 0.2611
440
420
400
380
360
340
320
300

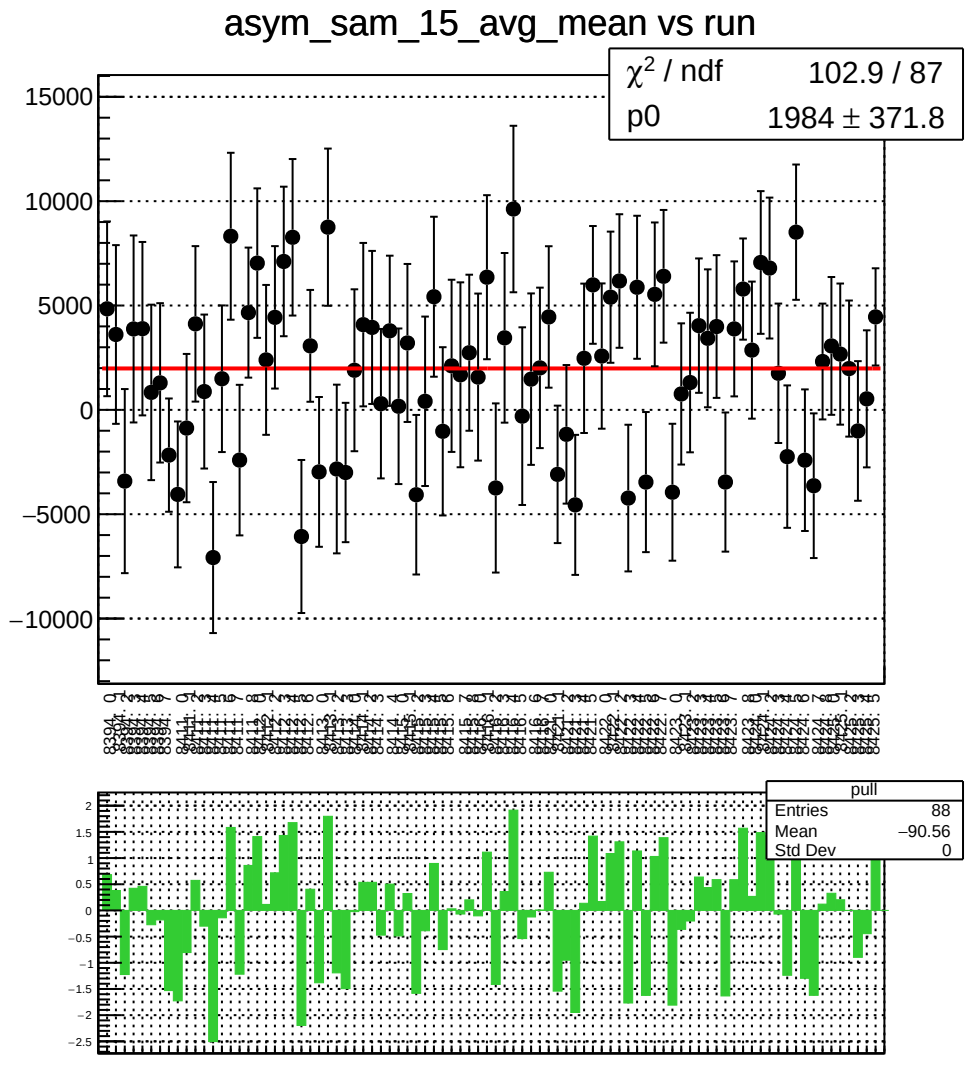

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 90.35 / 87
p0 −101.2 ± 71.89
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean −180.5
Std Dev 0
2
1
0
−1
−2
−3

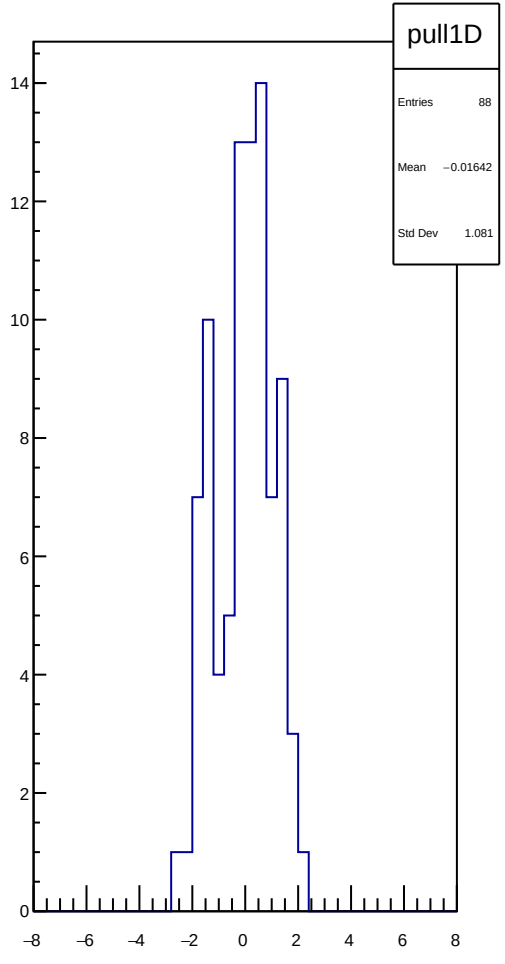

pull1D
Entries 88
Mean −0.004309
Std Dev 1.013
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

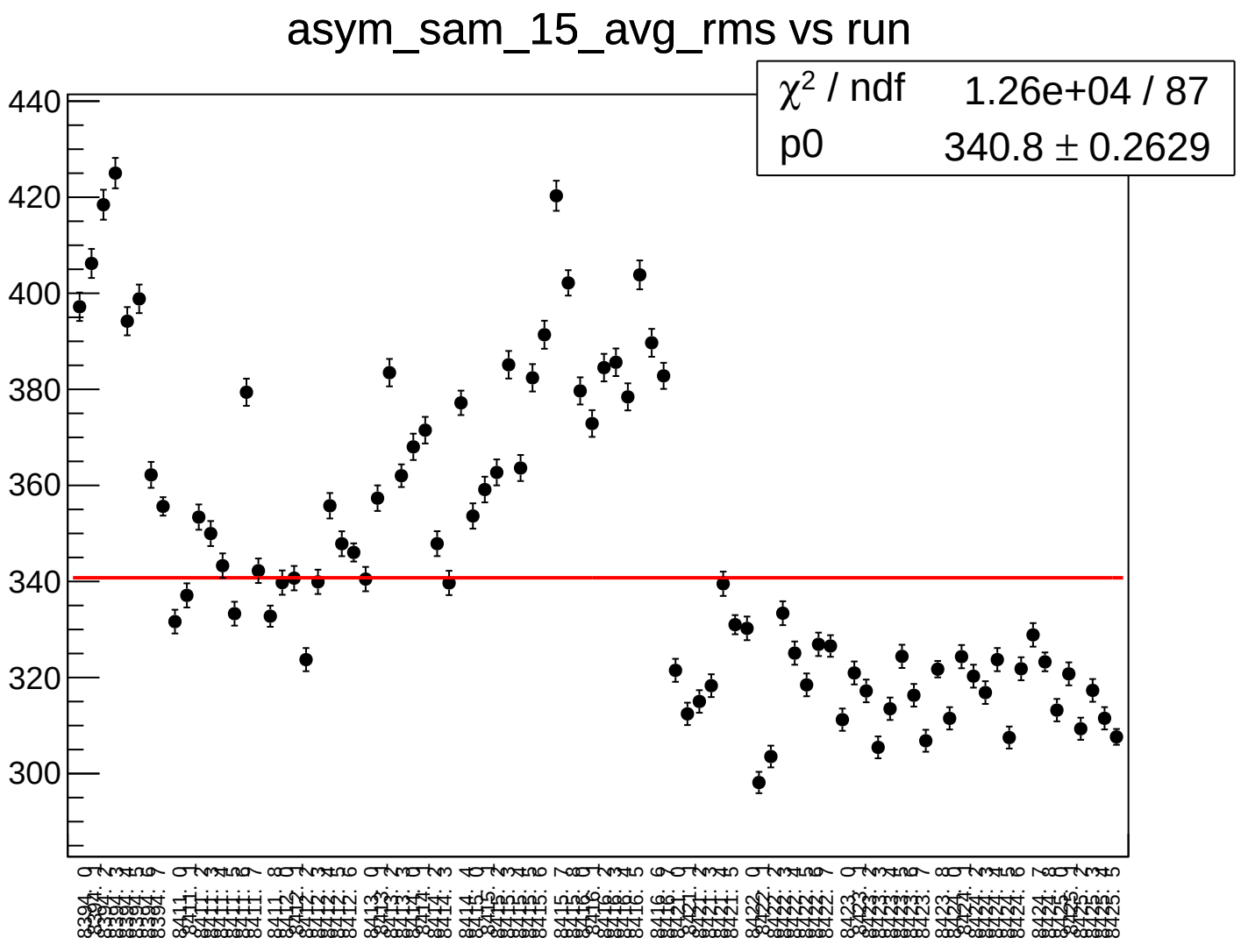

eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 1296 / 87
p0 66.12 ± 0.05084
78
76
74
72
70
68
66
64
62

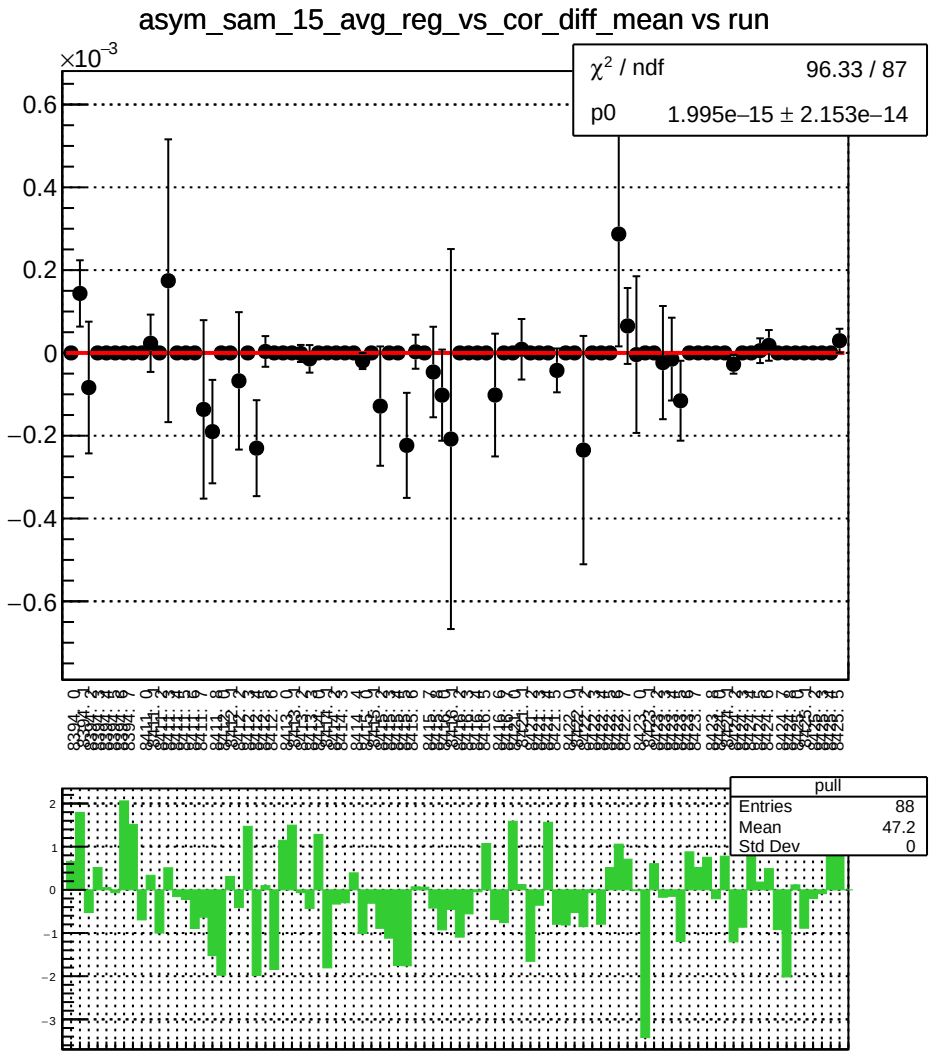

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 105.7 / 87
p0 −2070 ± 369.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −107.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.0136
Std Dev 1.096
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

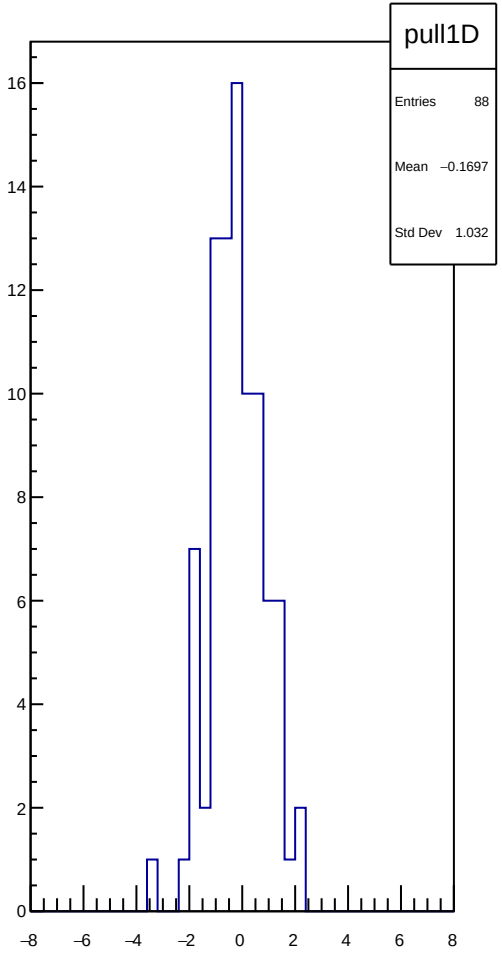

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.134e+04 / 87
p0 338.6 ± 0.2611
440
420
400
380
360
340
320
300

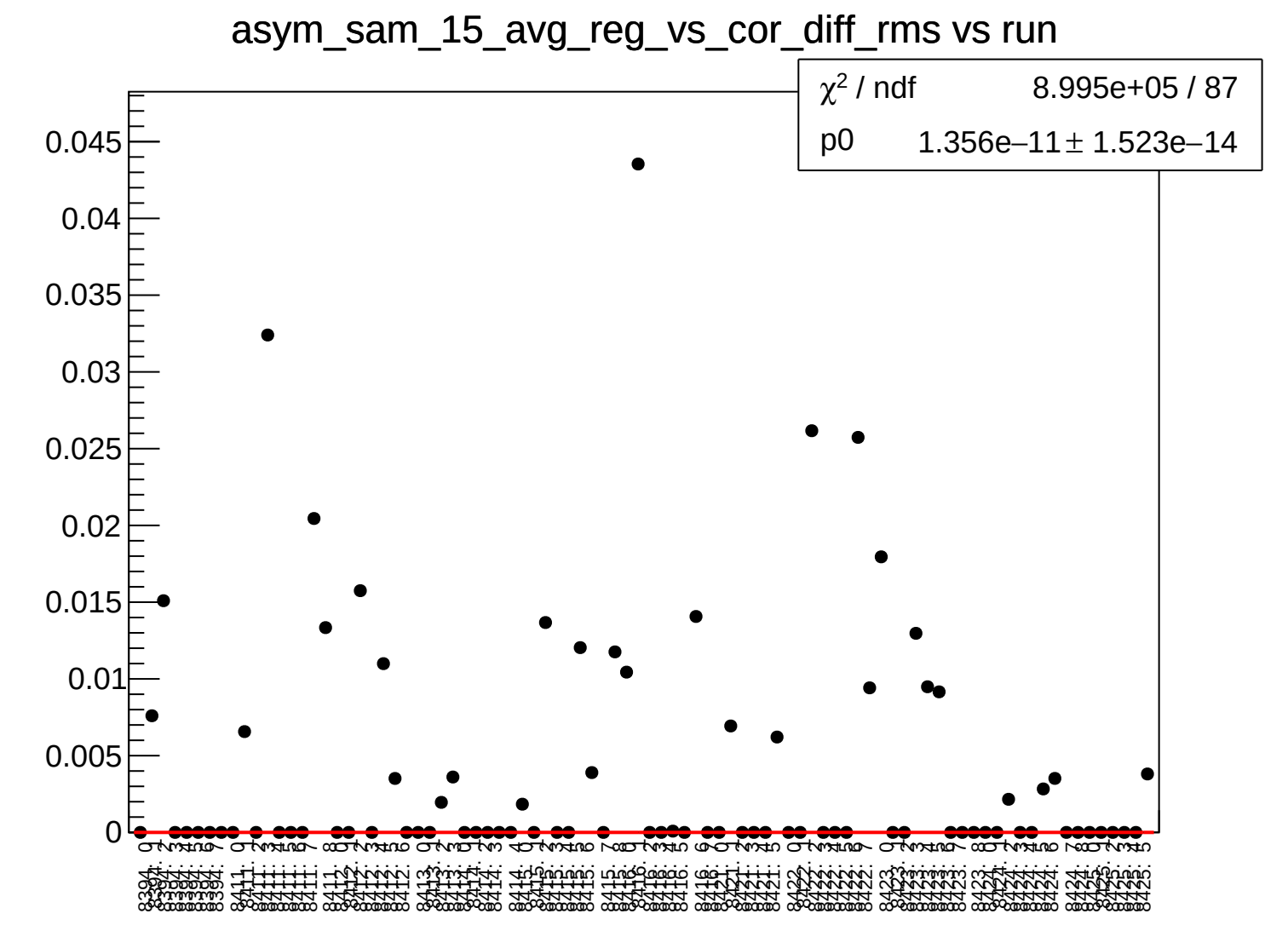

asym_sam_15_avg_mean vs run
χ² / ndf 102.9 / 87
p0 1984 ± 371.8
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −90.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

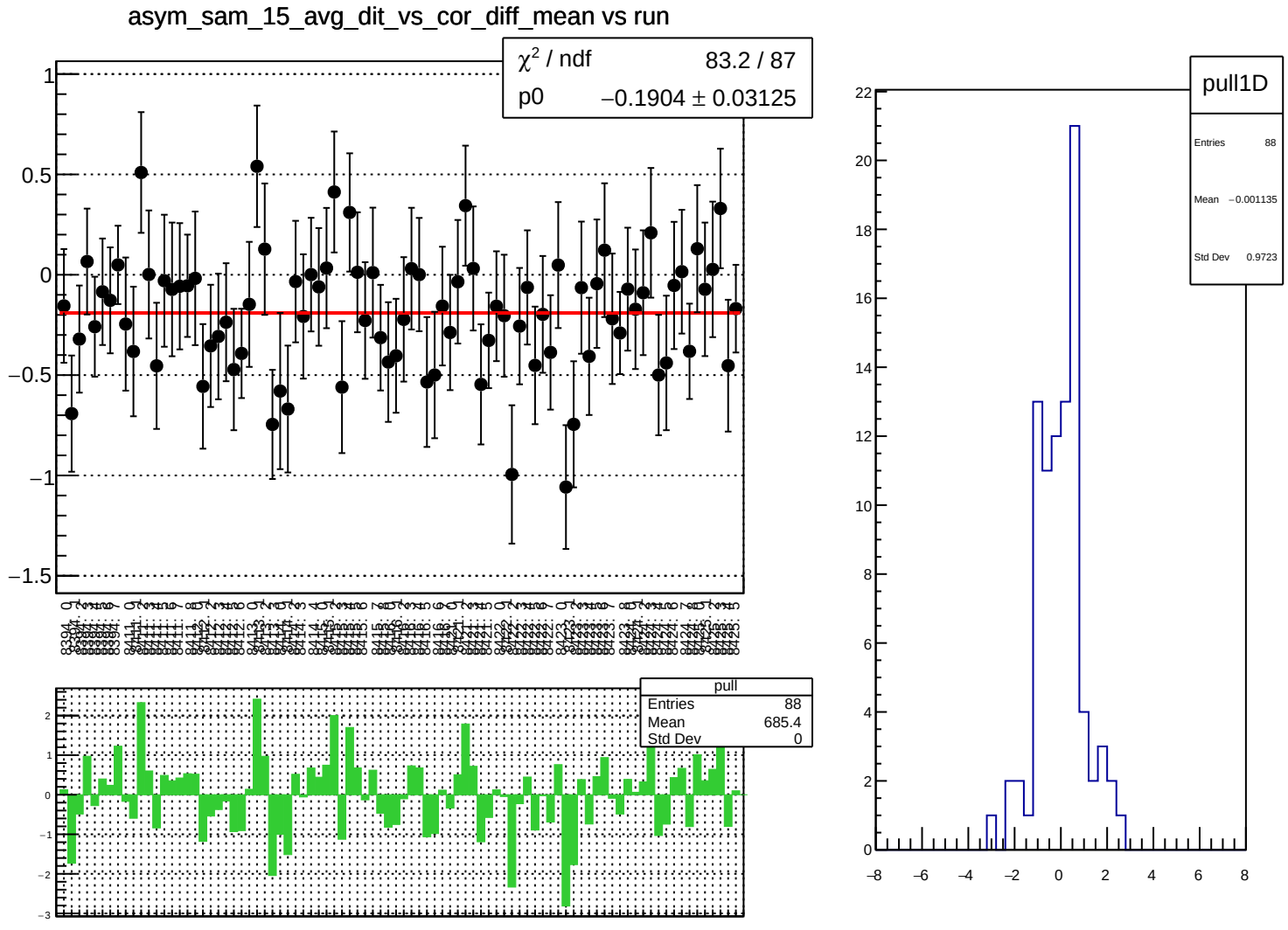

pull1D
Entries 88
Mean −0.01642
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

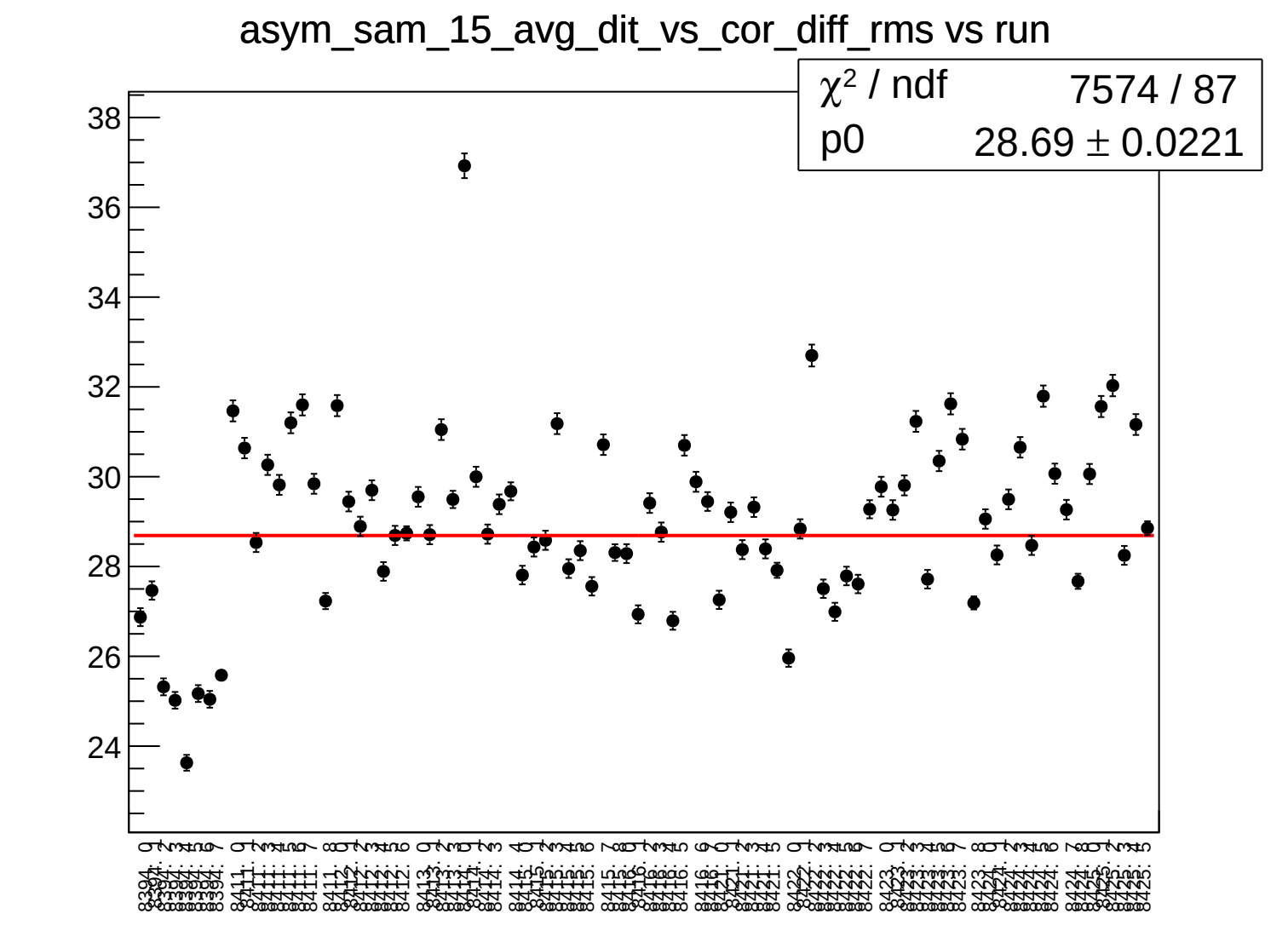

asym_sam_15_avg_rms vs run
χ^2 / ndf 1.26e+04 / 87
p0 340.8 ± 0.2629
440
420
400
380
360
340
320
300

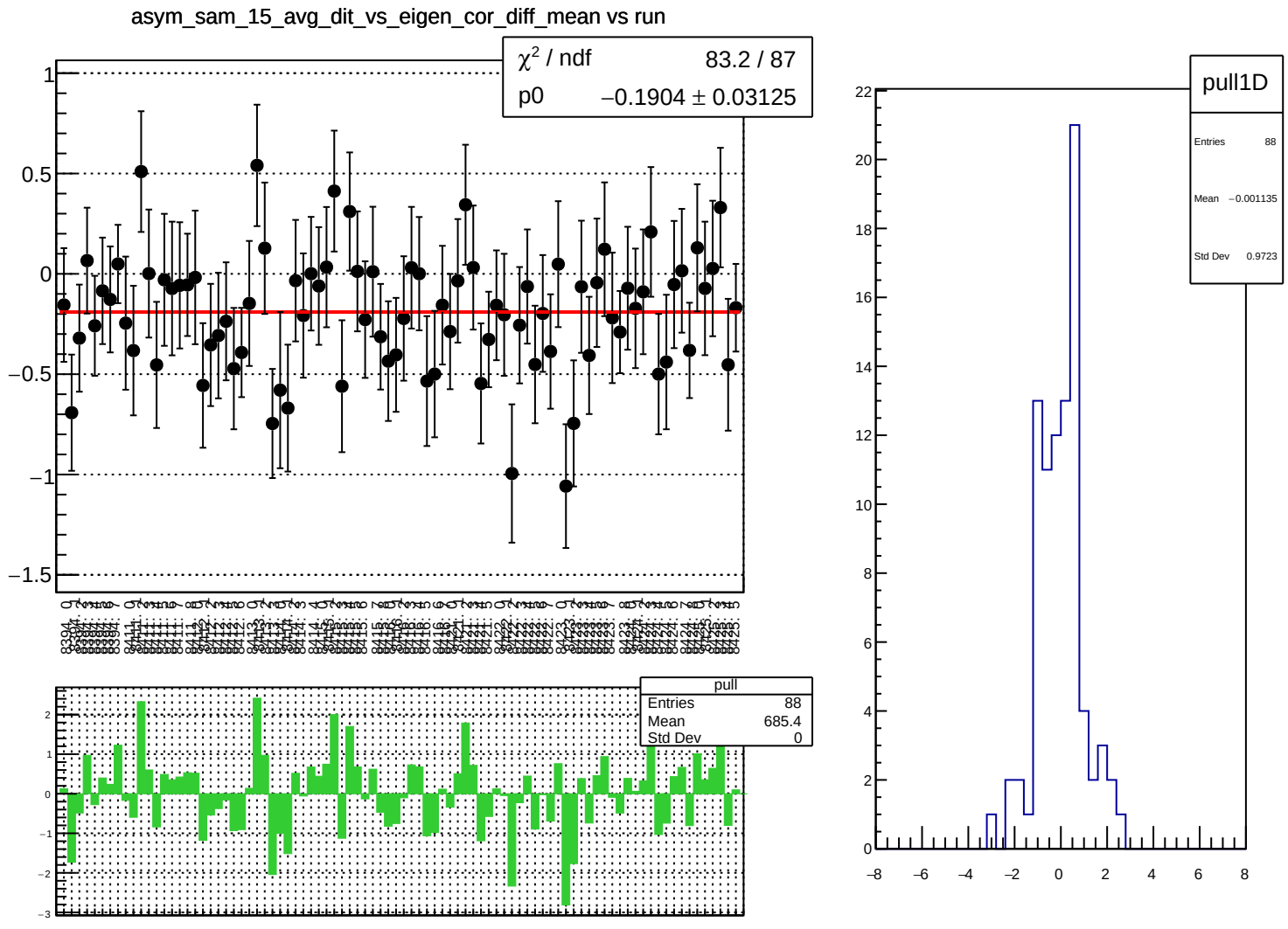

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 96.33 / 87
p0 1.995e−15 ± 2.153e−14
pull
Entries 88
Mean 47.2
Std Dev 0

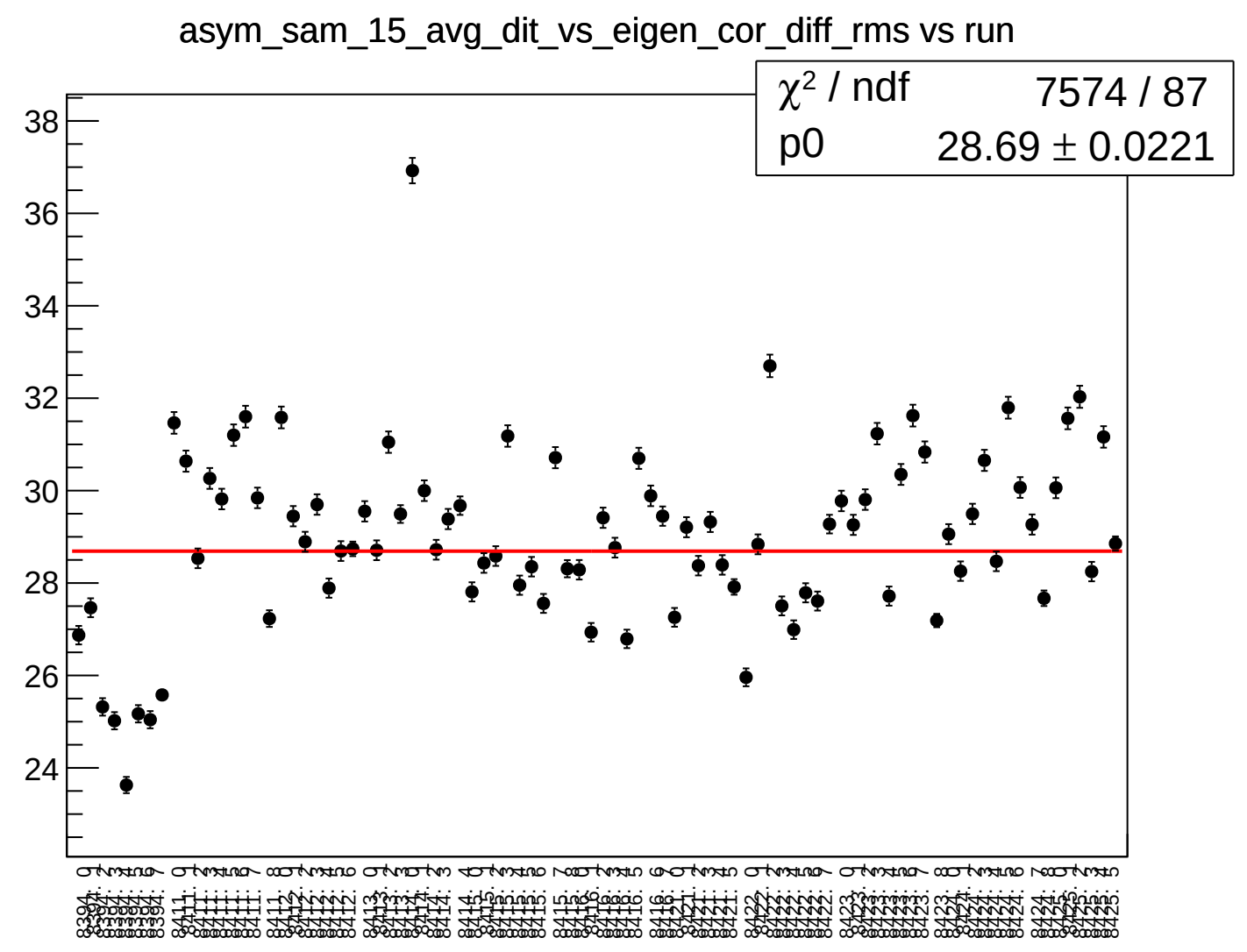

pull1D
Entries 88
Mean −0.1697
Std Dev 1.032

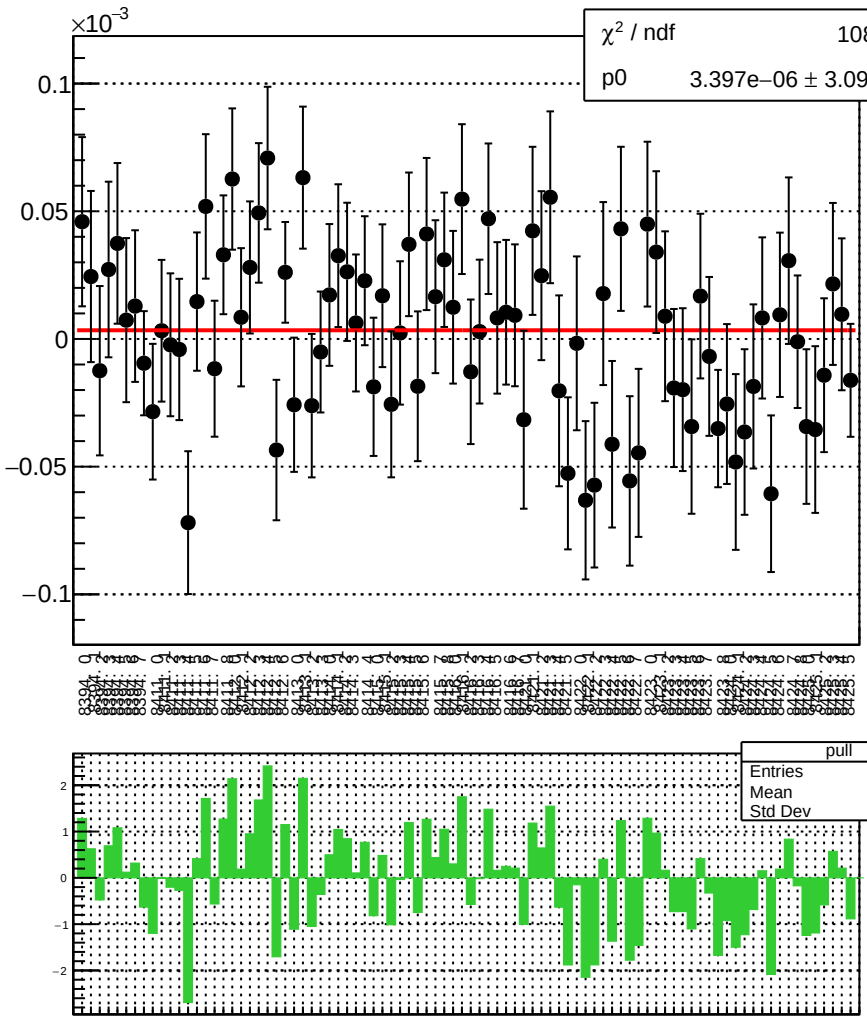

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.995e+05 / 87
p0 1.356e−11 ± 1.523e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

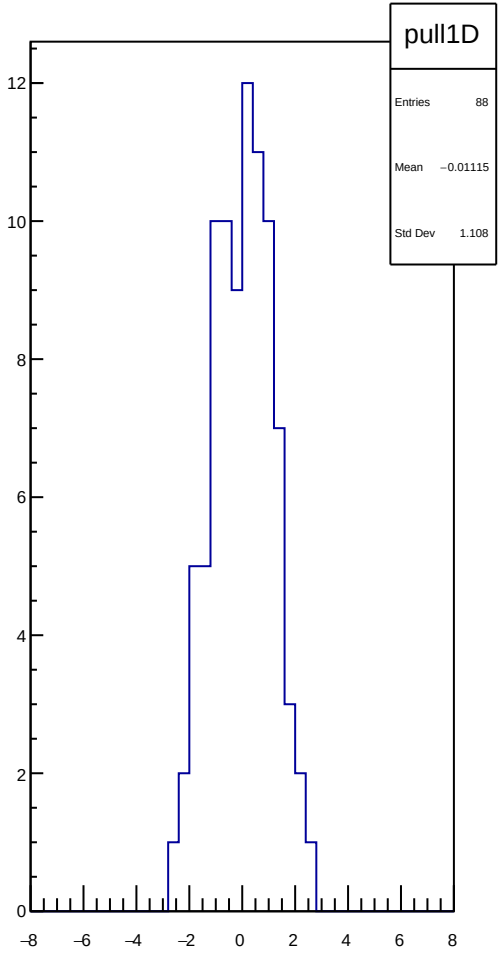

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.2 / 87
p0 −0.1904 ± 0.03125
pull
Entries 88
Mean 685.4
Std Dev 0
pull1D
Entries 88
Mean −0.001135
Std Dev 0.9723

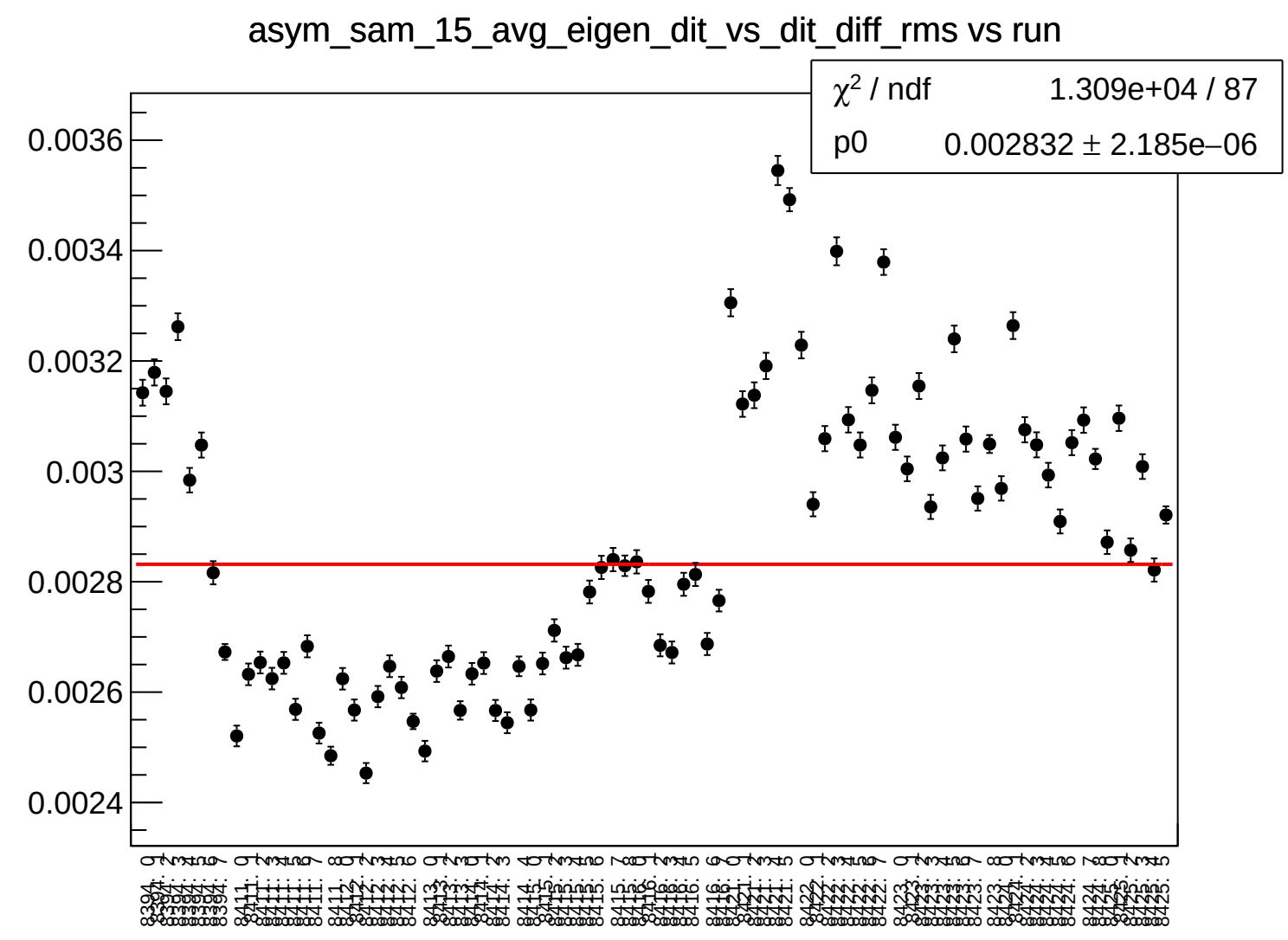

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7574 / 87
p0 28.69 ± 0.0221
38
36
34
32
30
28
26
24

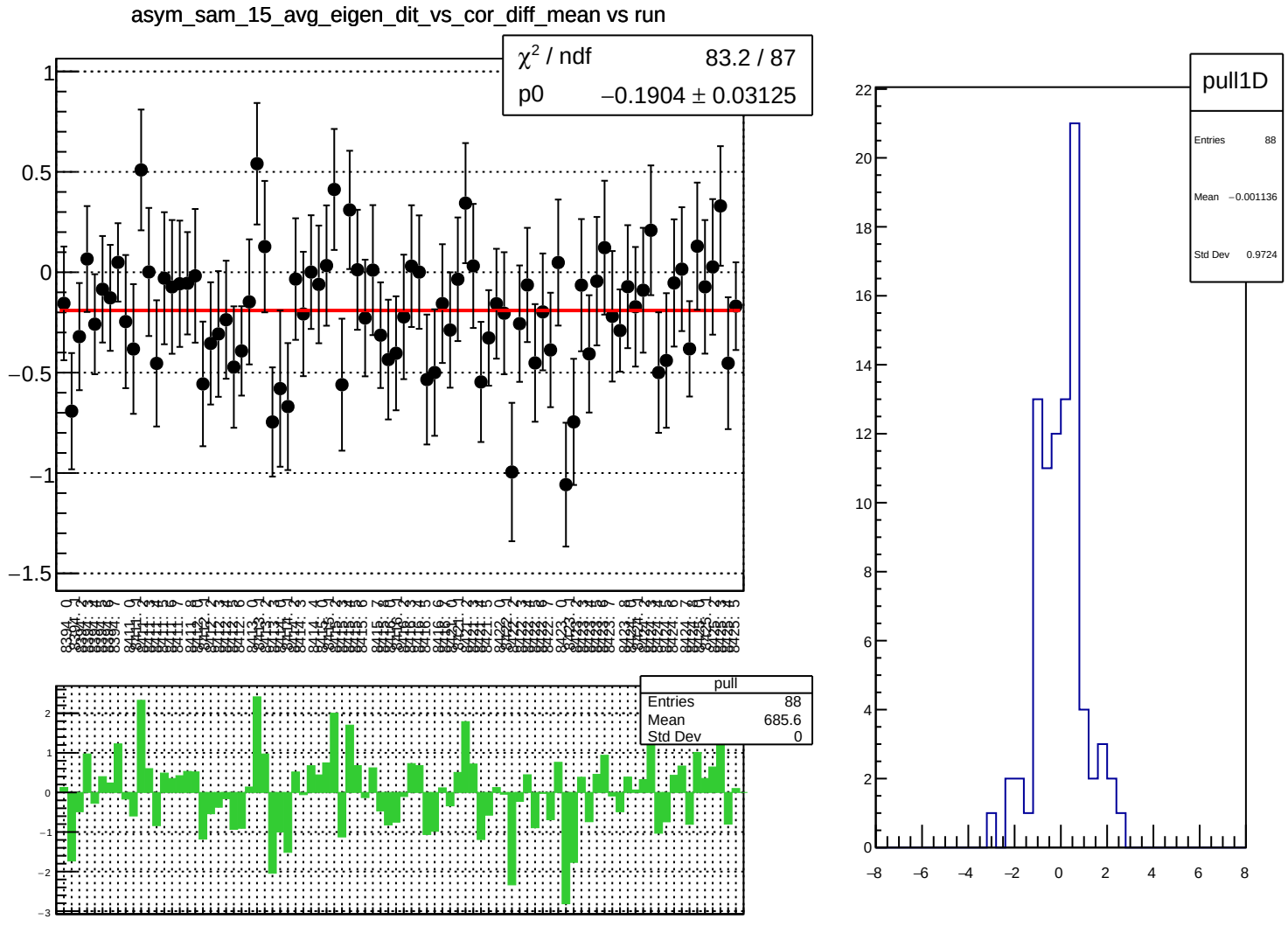

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.2 / 87
p0 −0.1904 ± 0.03125
pull
Entries 88
Mean 685.4
Std Dev 0
pull1D
Entries 88
Mean −0.001135
Std Dev 0.9723

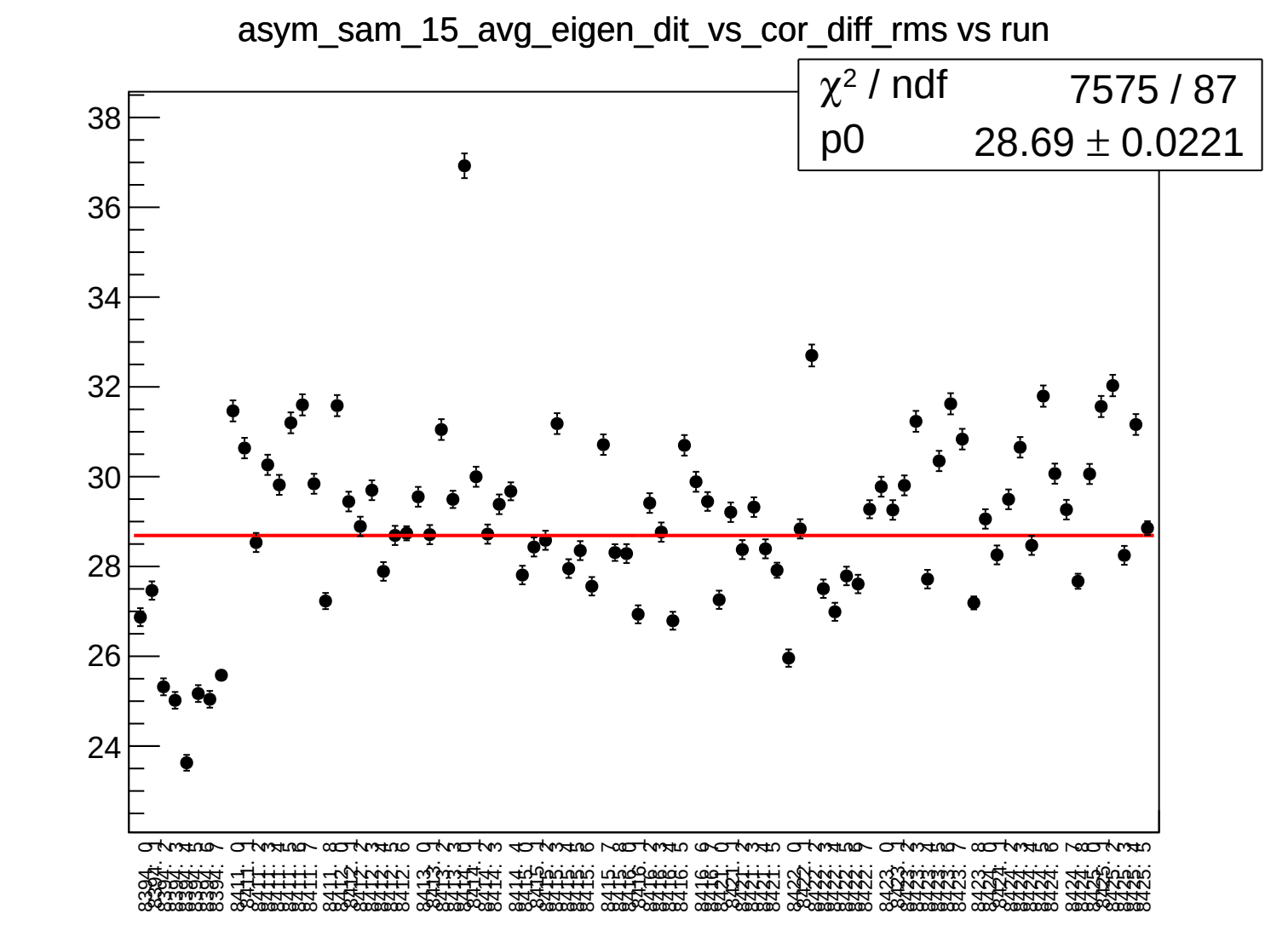

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7574 / 87
p0 28.69 ± 0.0221
38
36
34
32
30
28
26
24

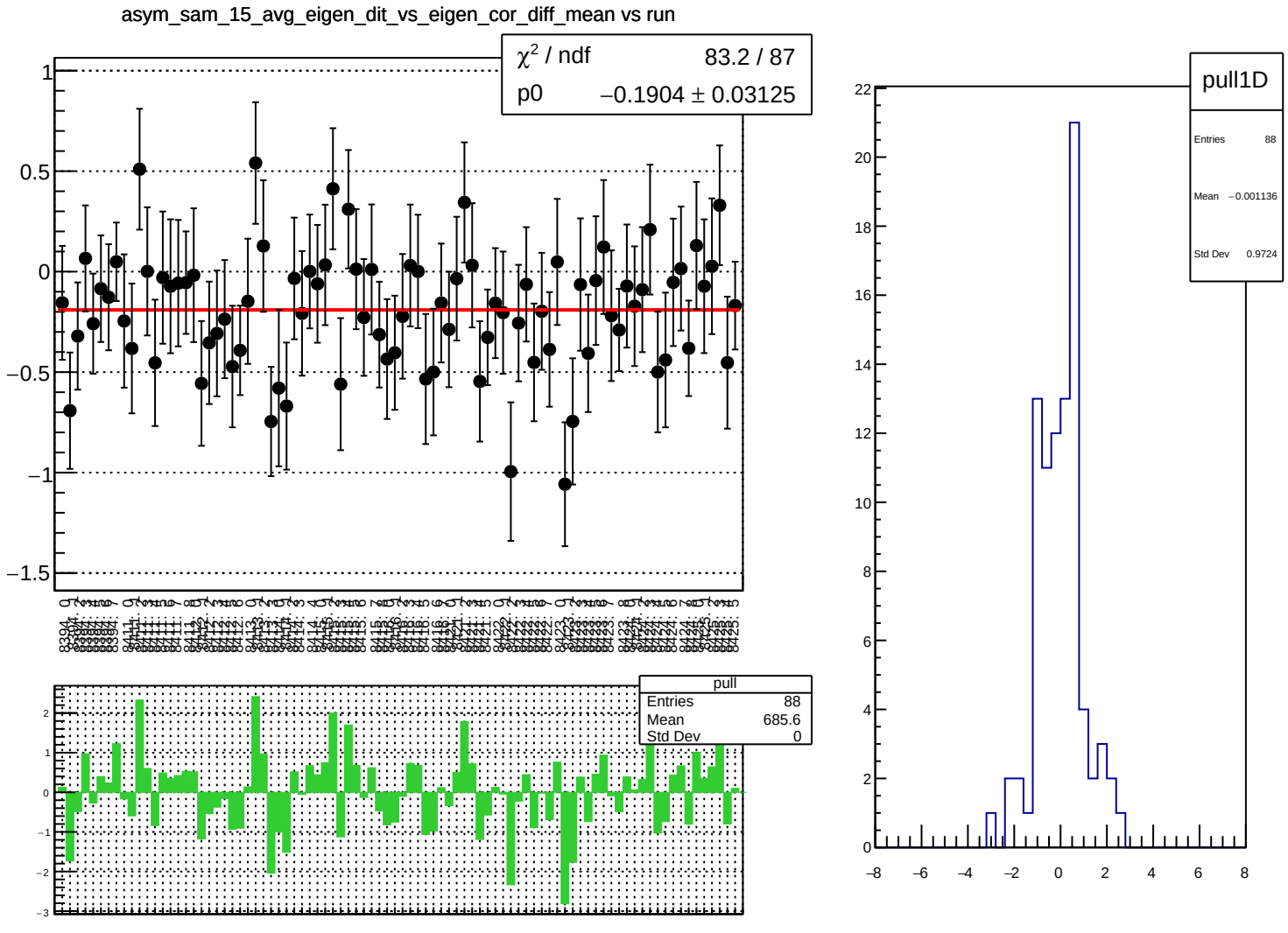

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 108 / 87
p0 3.397e−06 ± 3.09e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean 796.2
Std Dev 0
2
1
0
−1
−2

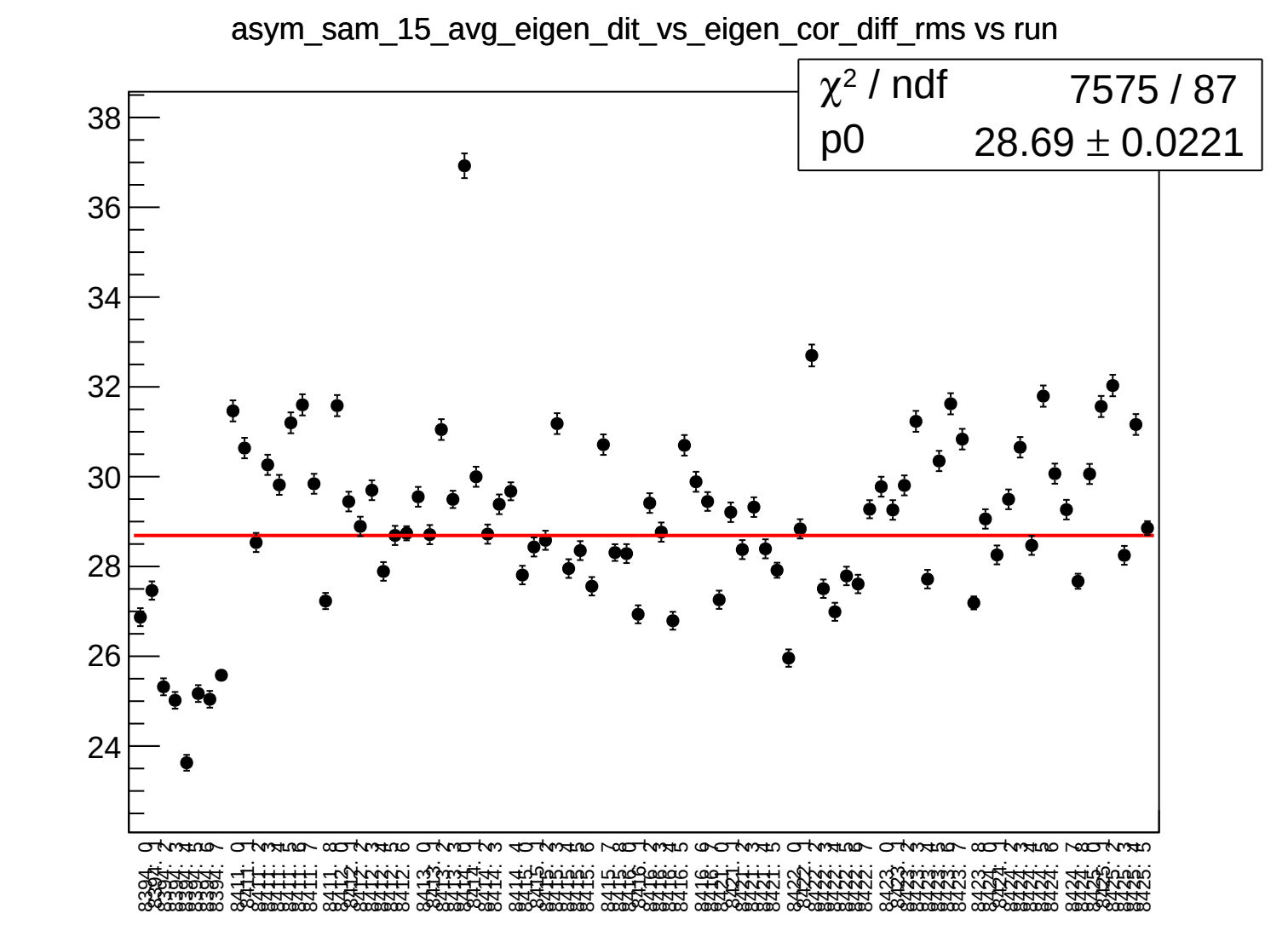

pull1D
Entries 88
Mean −0.01115
Std Dev 1.108
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

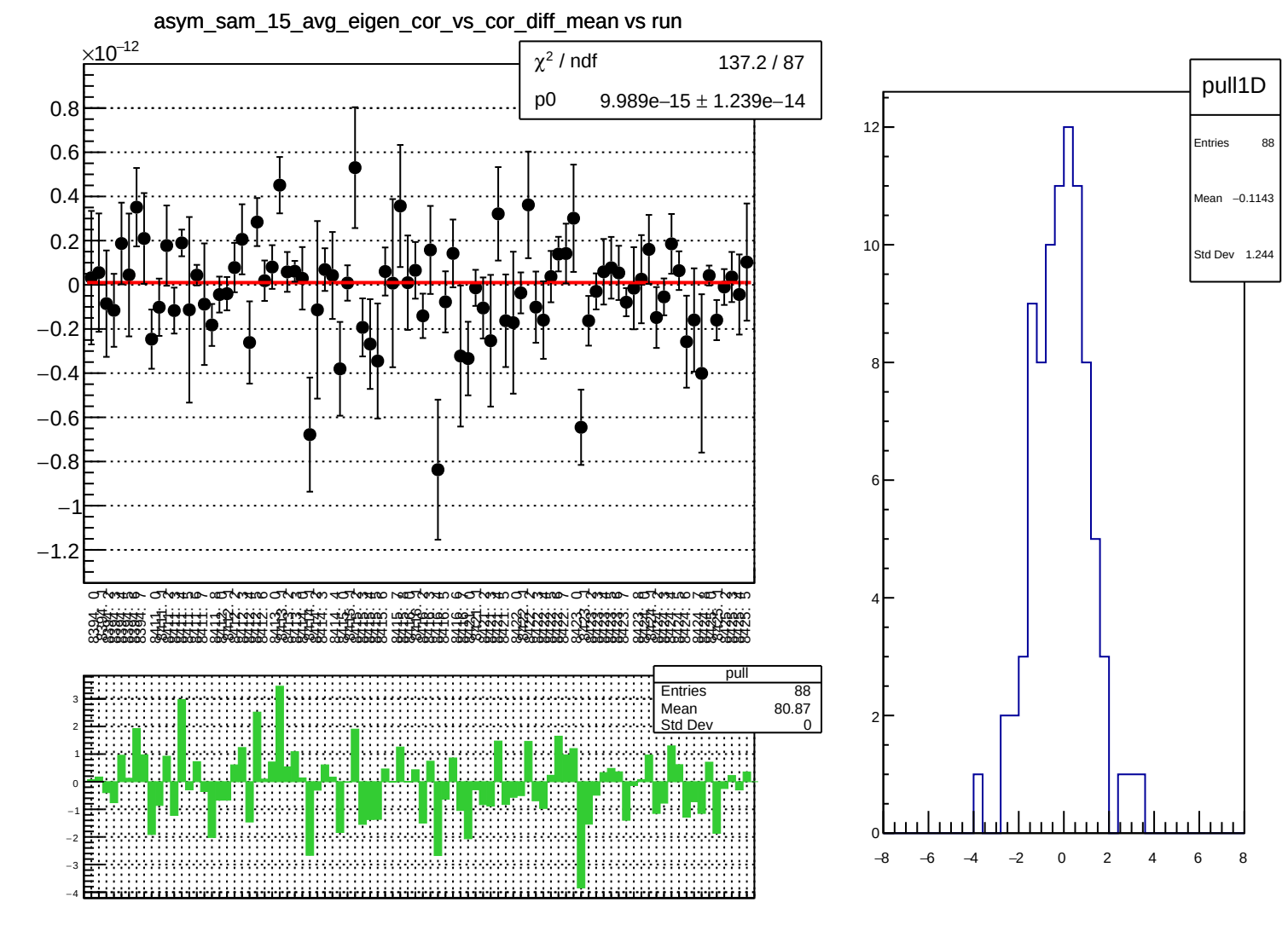

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.309e+04 / 87
p0 0.002832 ± 2.185e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024

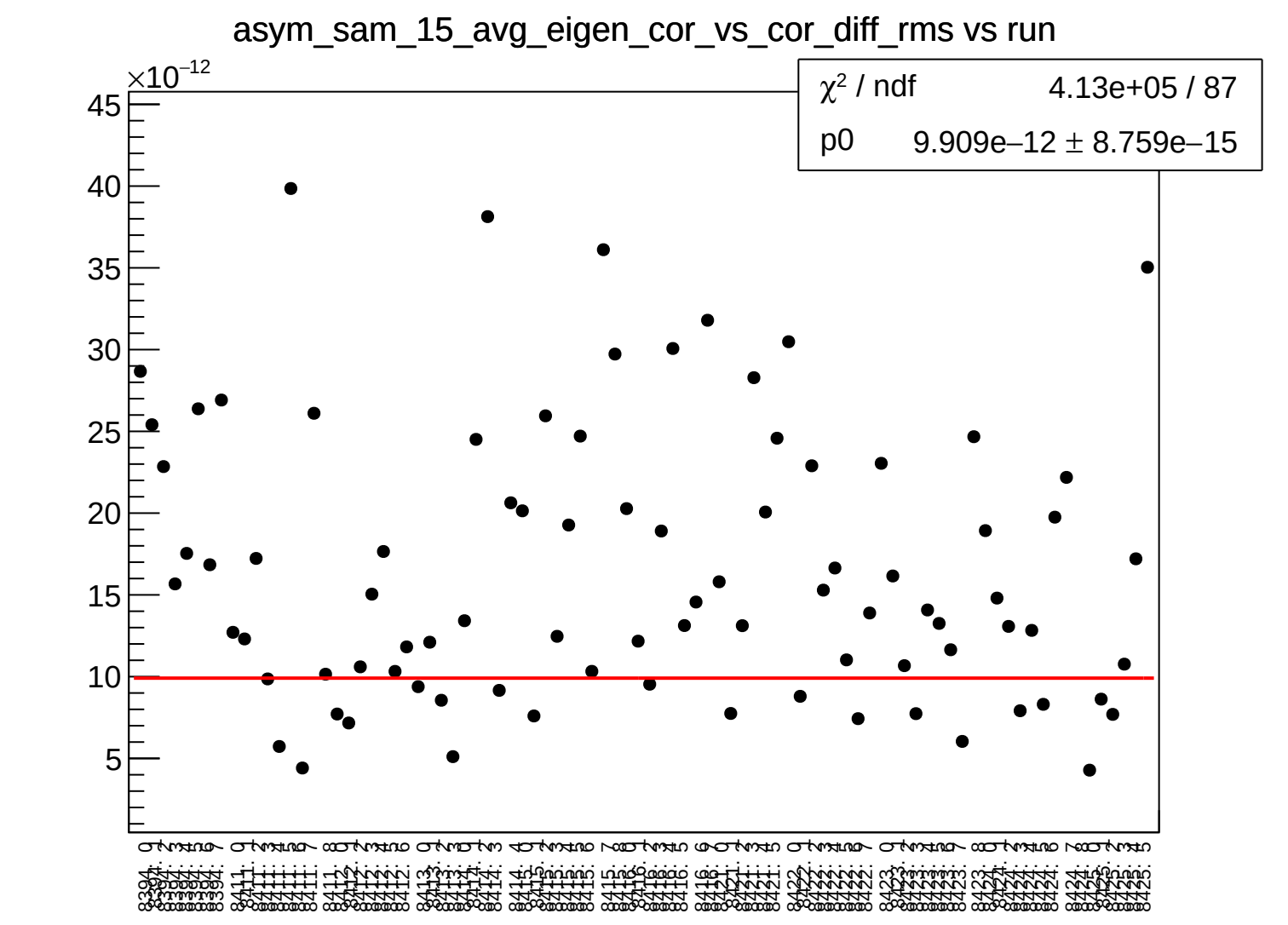

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.2 / 87
p0 −0.1904 ± 0.03125
pull
Entries 88
Mean 685.6
Std Dev 0
pull1D
Entries 88
Mean −0.001136
Std Dev 0.9724

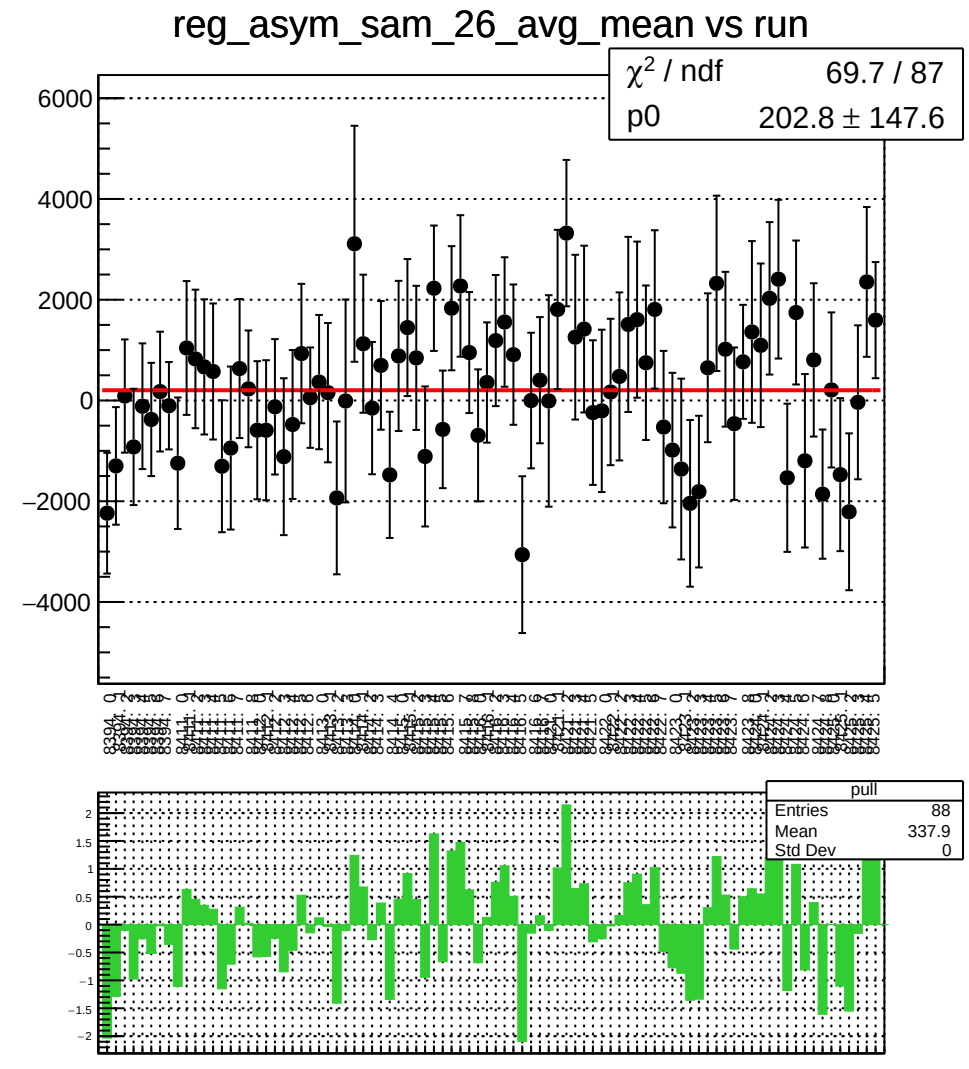

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7575 / 87
p0 28.69 ± 0.0221
38
36
34
32
30
28
26
24

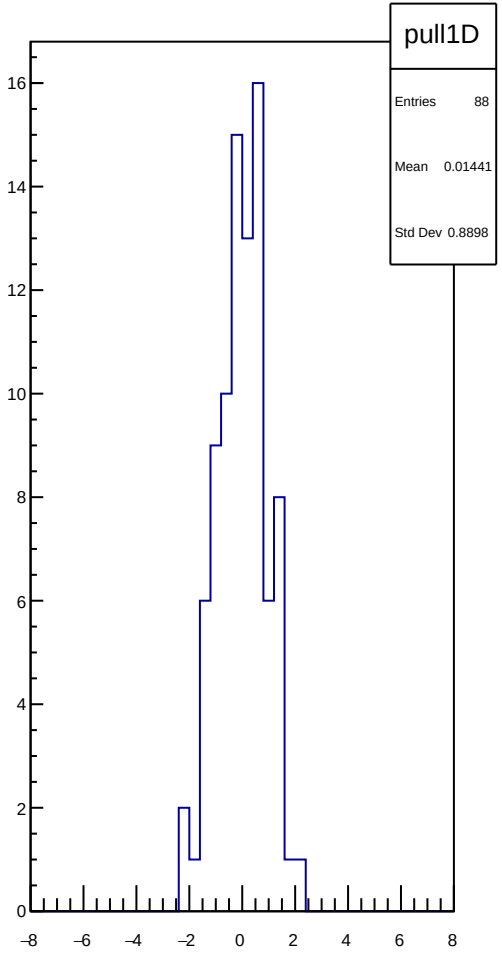

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.2 / 87
p0 −0.1904 ± 0.03125
pull
Entries 88
Mean 685.6
Std Dev 0
pull1D
Entries 88
Mean −0.001136
Std Dev 0.9724

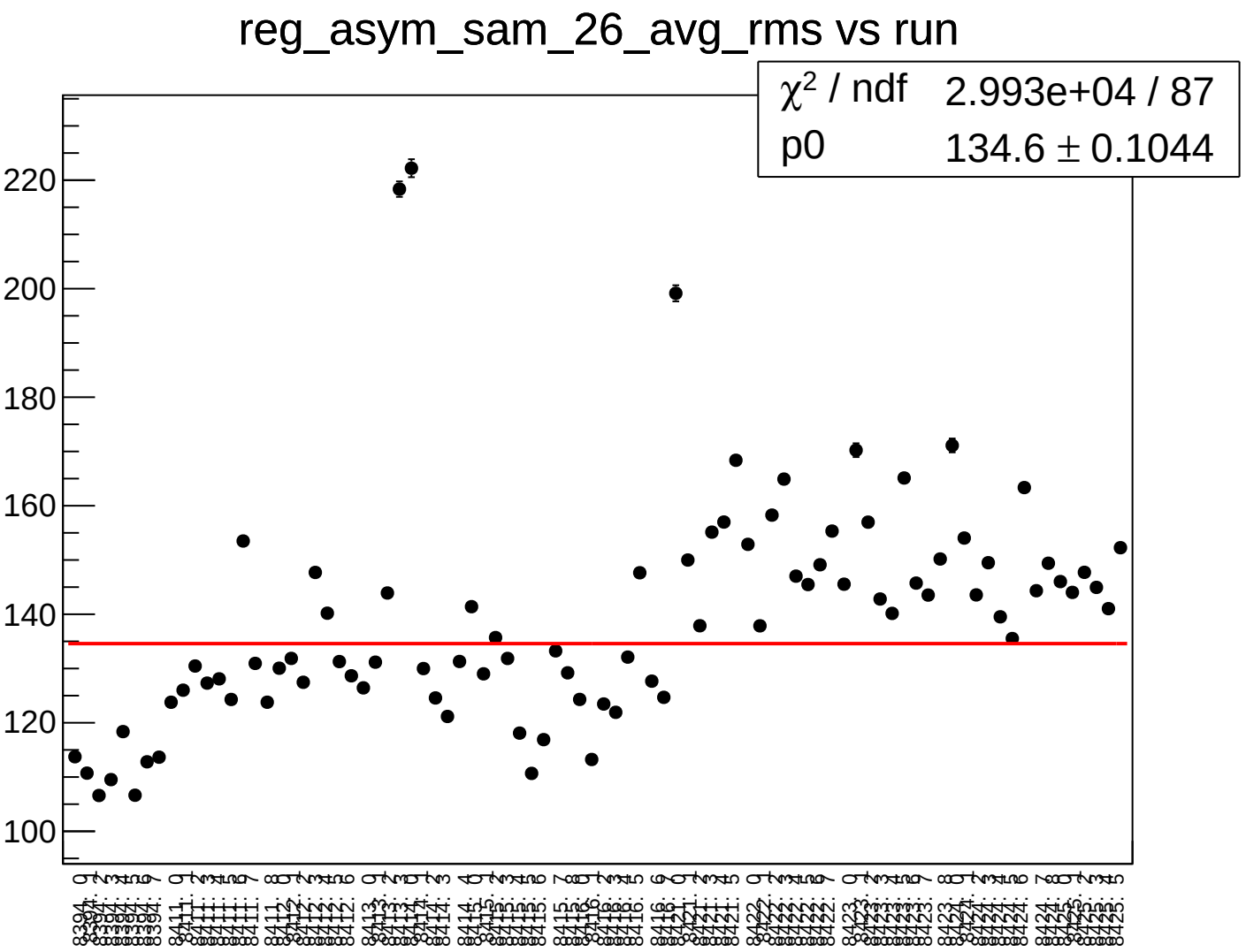

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7575 / 87
p0 28.69 ± 0.0221
38
36
34
32
30
28
26
24

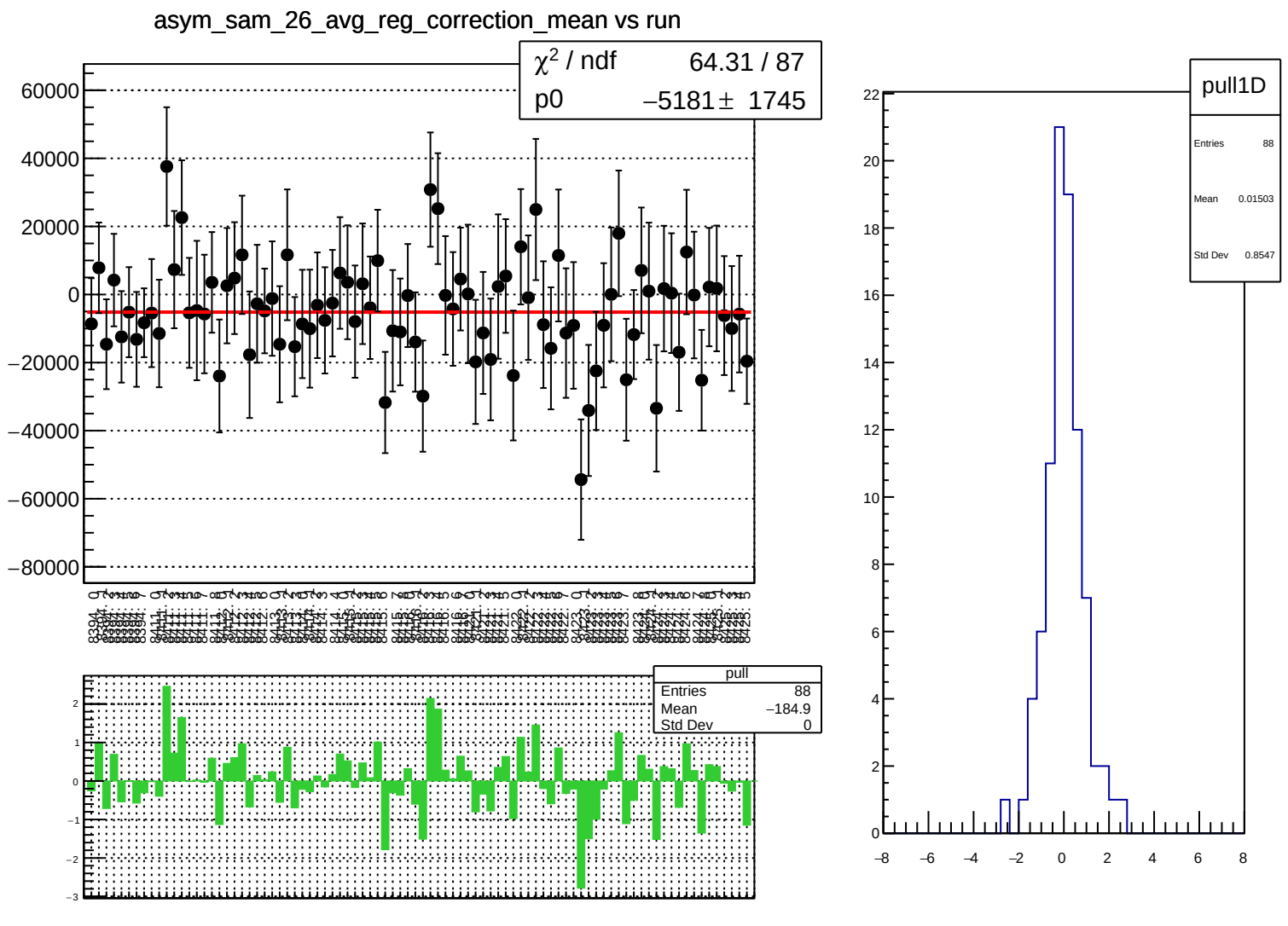

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 137.2 / 87
p0 9.989e−15 ± 1.239e−14
pull
Entries 88
Mean 80.87
Std Dev 0
pull1D
Entries 88
Mean −0.1143
Std Dev 1.244

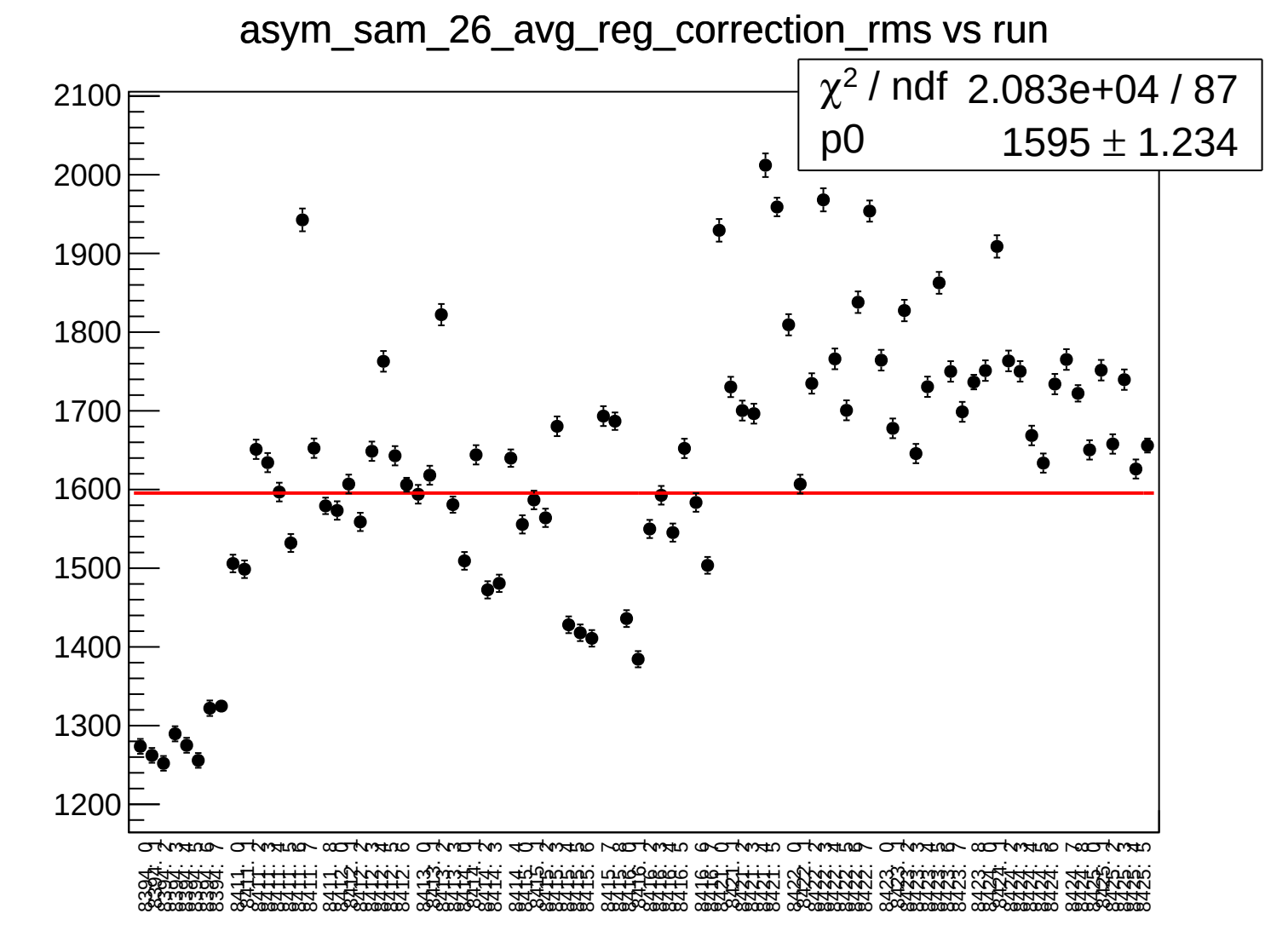

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.13e+05 / 87
p0 9.909e−12 ± 8.759e−15
45
40
35
30
25
20
15
10
5

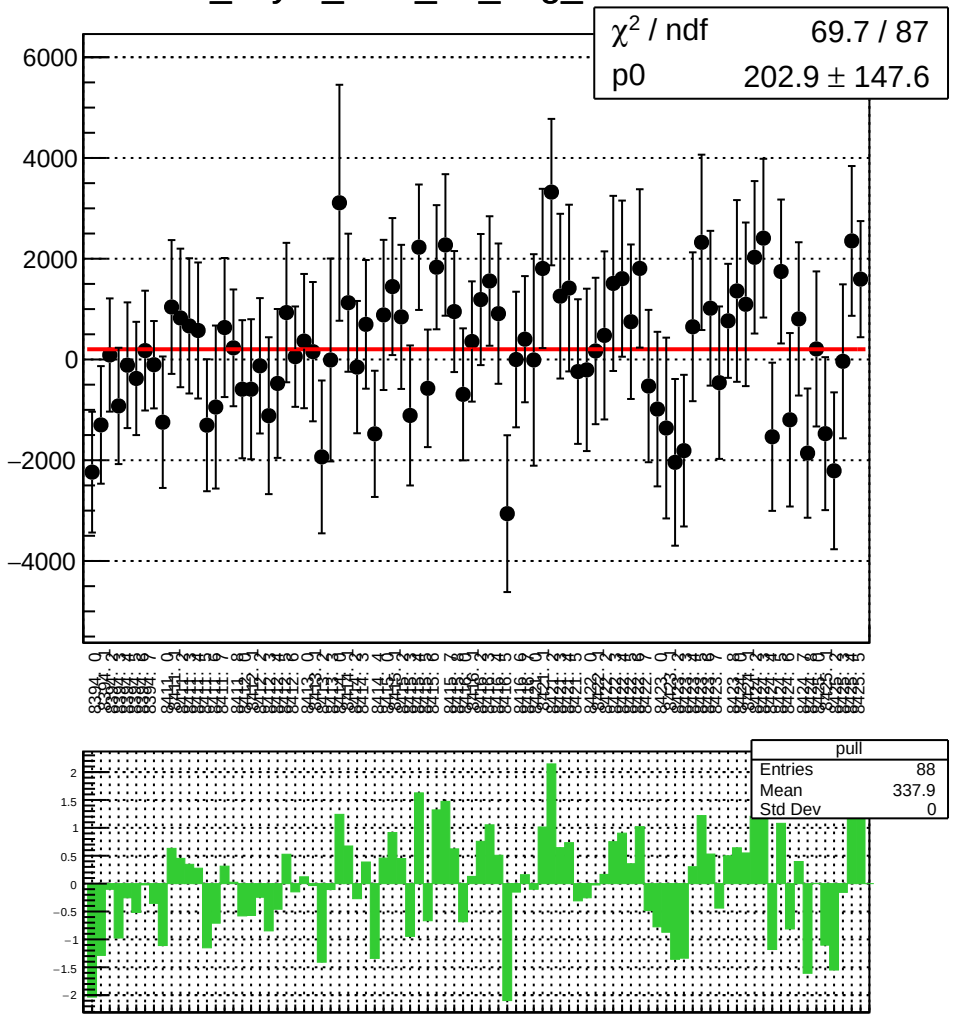

reg_asym_sam_26_avg_mean vs run
χ² / ndf 69.7 / 87
p0 202.8 ± 147.6
pull
Entries 88
Mean 337.9
Std Dev 0

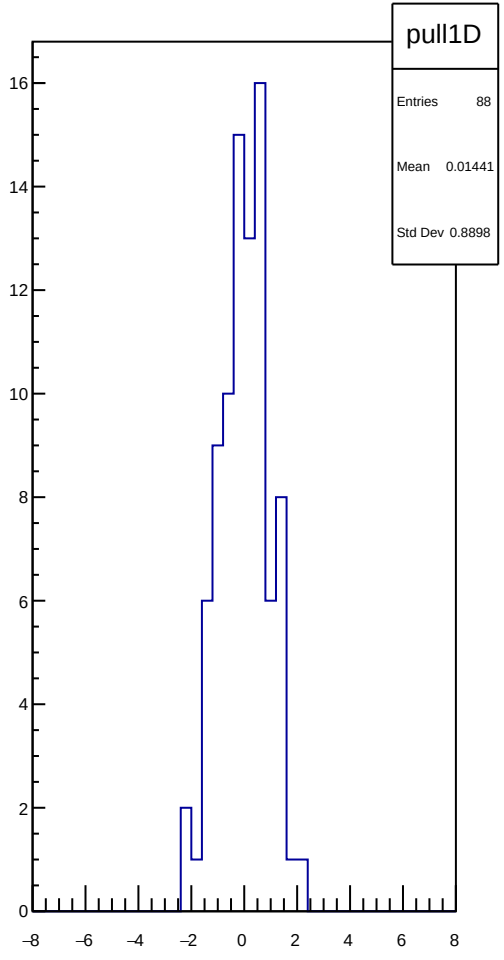

pull1D
Entries 88
Mean 0.01441
Std Dev 0.8898

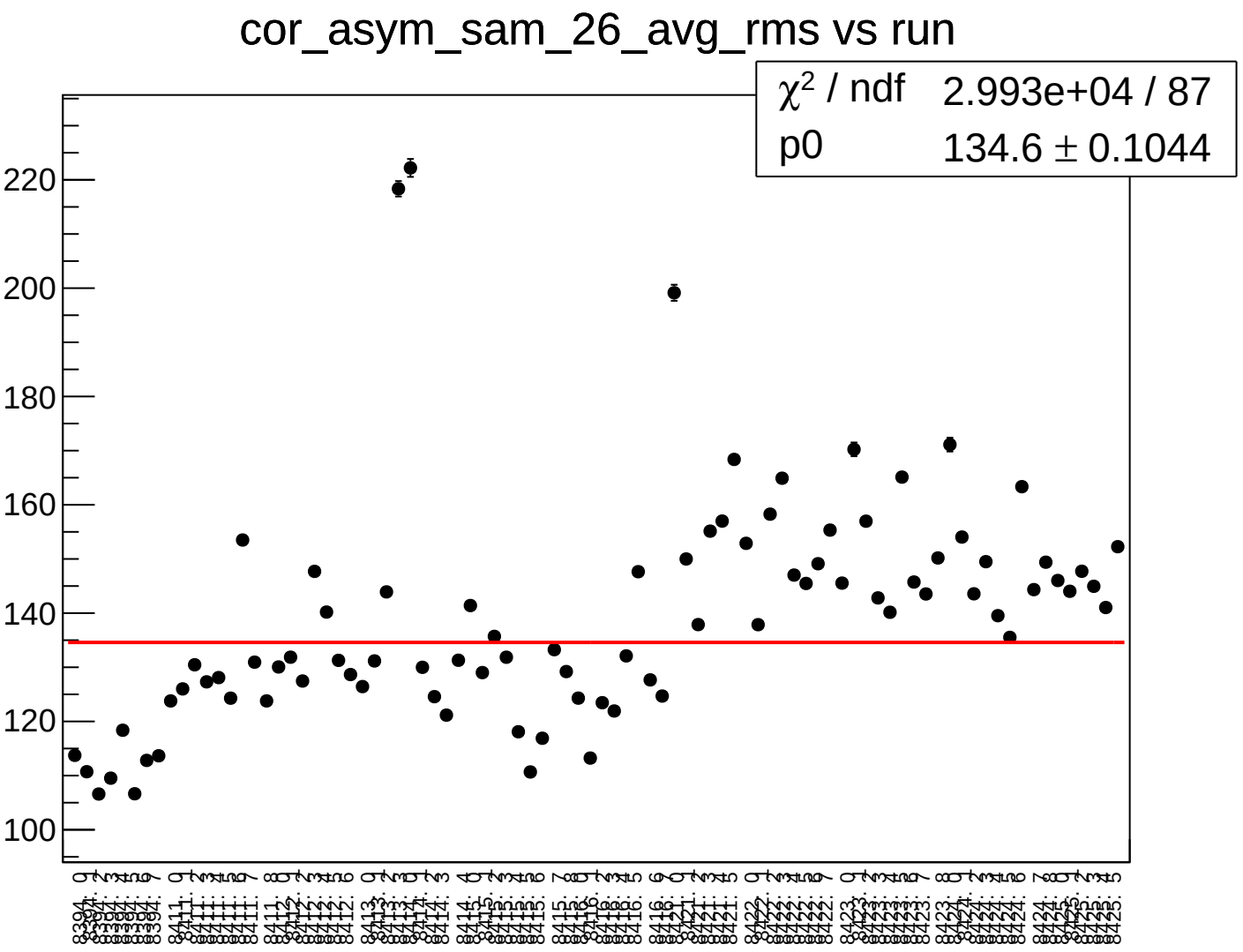

reg_asym_sam_26_avg_rms vs run
χ^2 / ndf 2.993e+04 / 87
p0 134.6 ± 0.1044
220
200
180
160
140
120
100

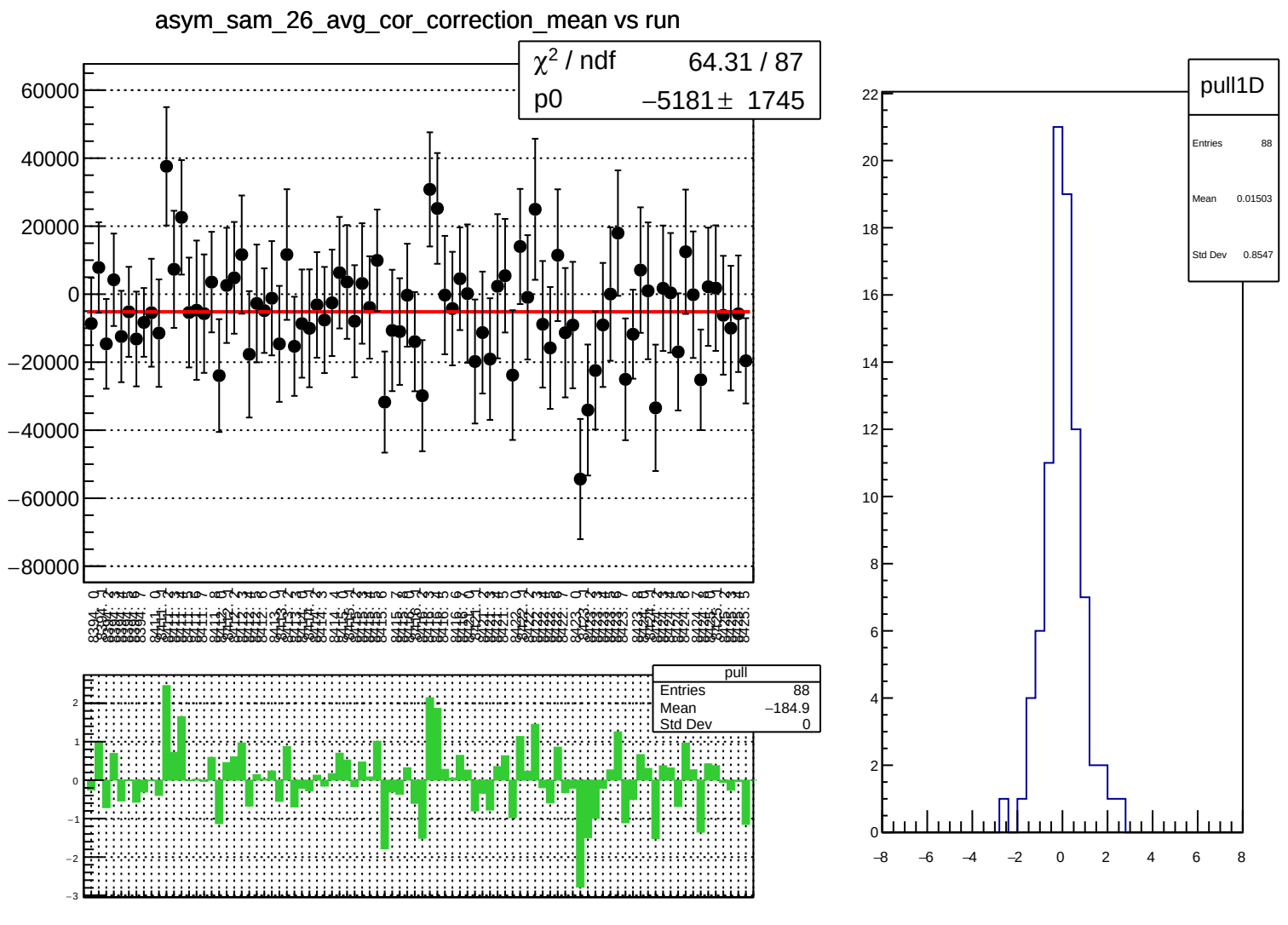

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 64.31 / 87
p0 −5181 ± 1745
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −184.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.01503
Std Dev 0.8547
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

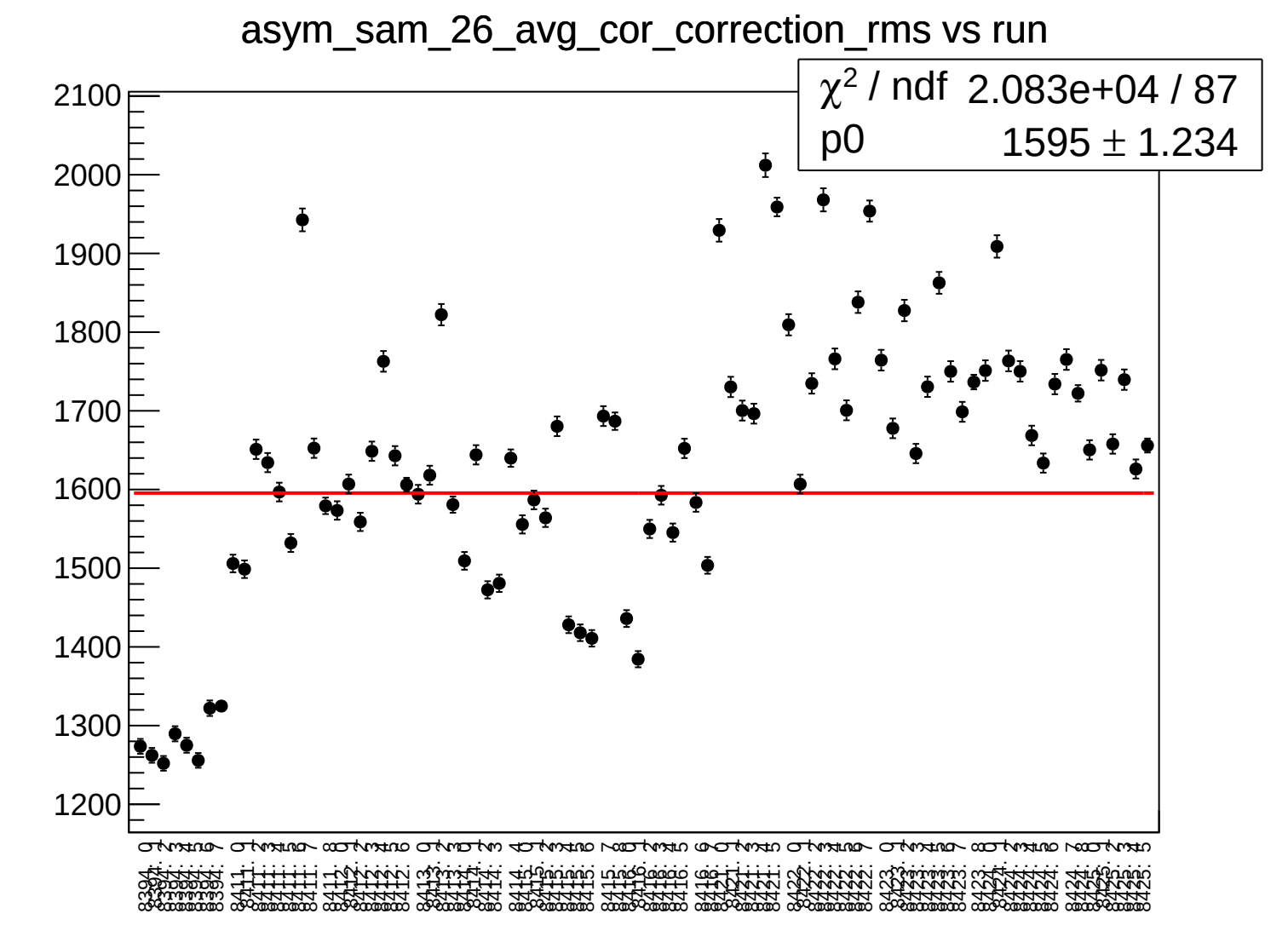

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 2.083e+04 / 87
p0 1595 ± 1.234
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200

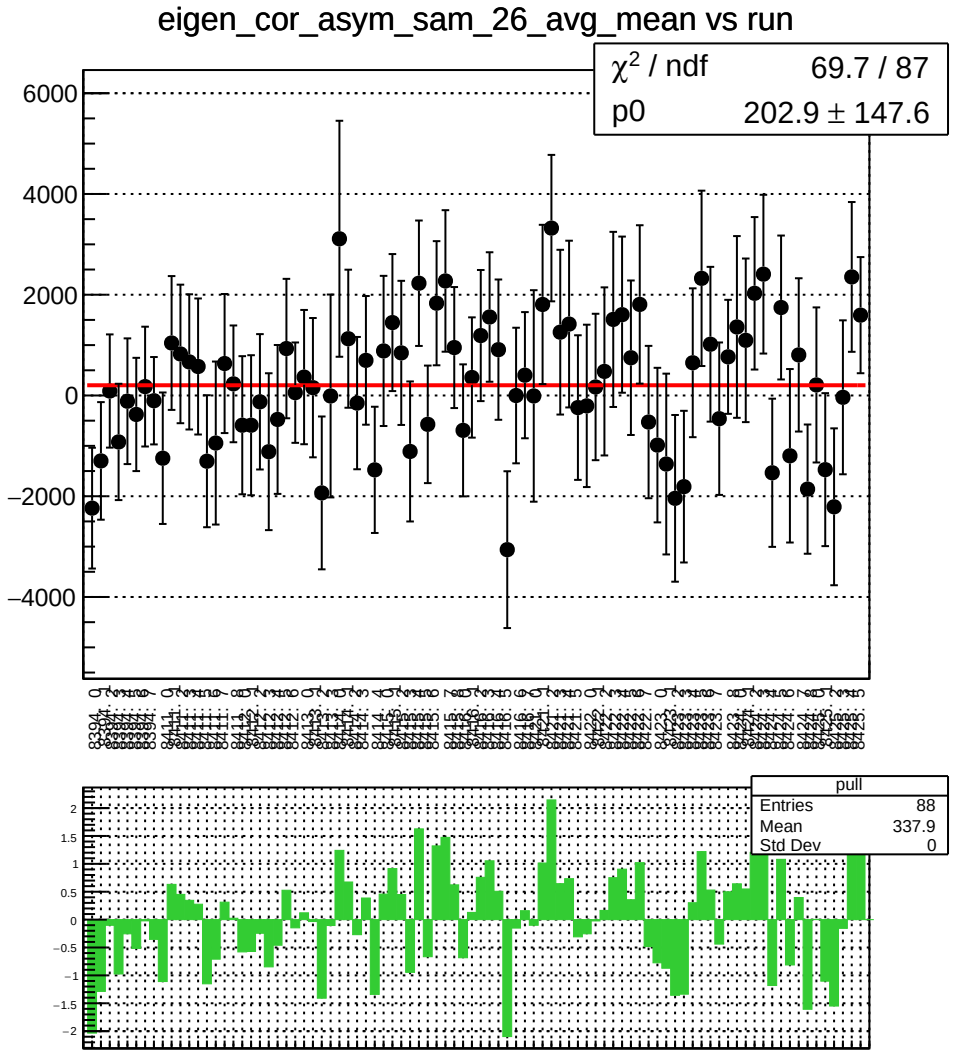

cor_asym_sam_26_avg_mean vs run
χ² / ndf 69.7 / 87
p0 202.9 ± 147.6
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 337.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

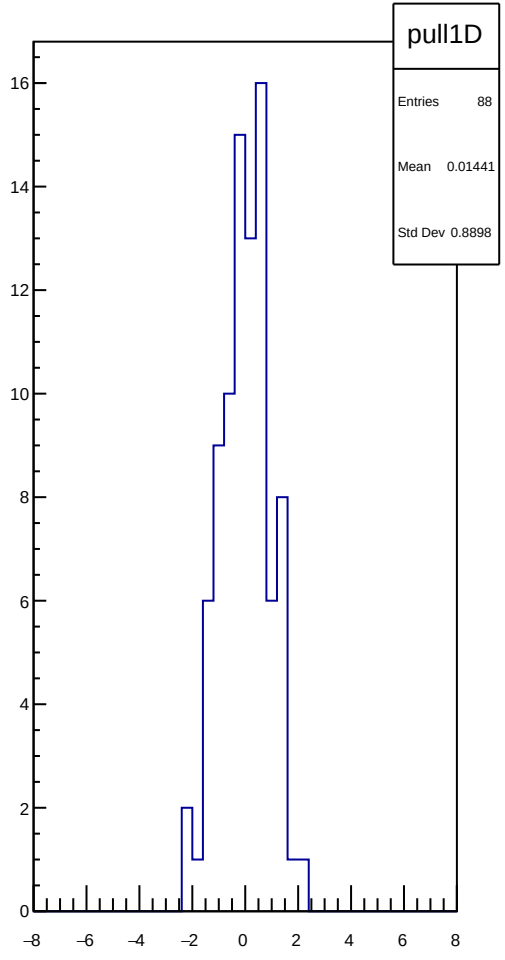

pull1D
Entries 88
Mean 0.01441
Std Dev 0.8898
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

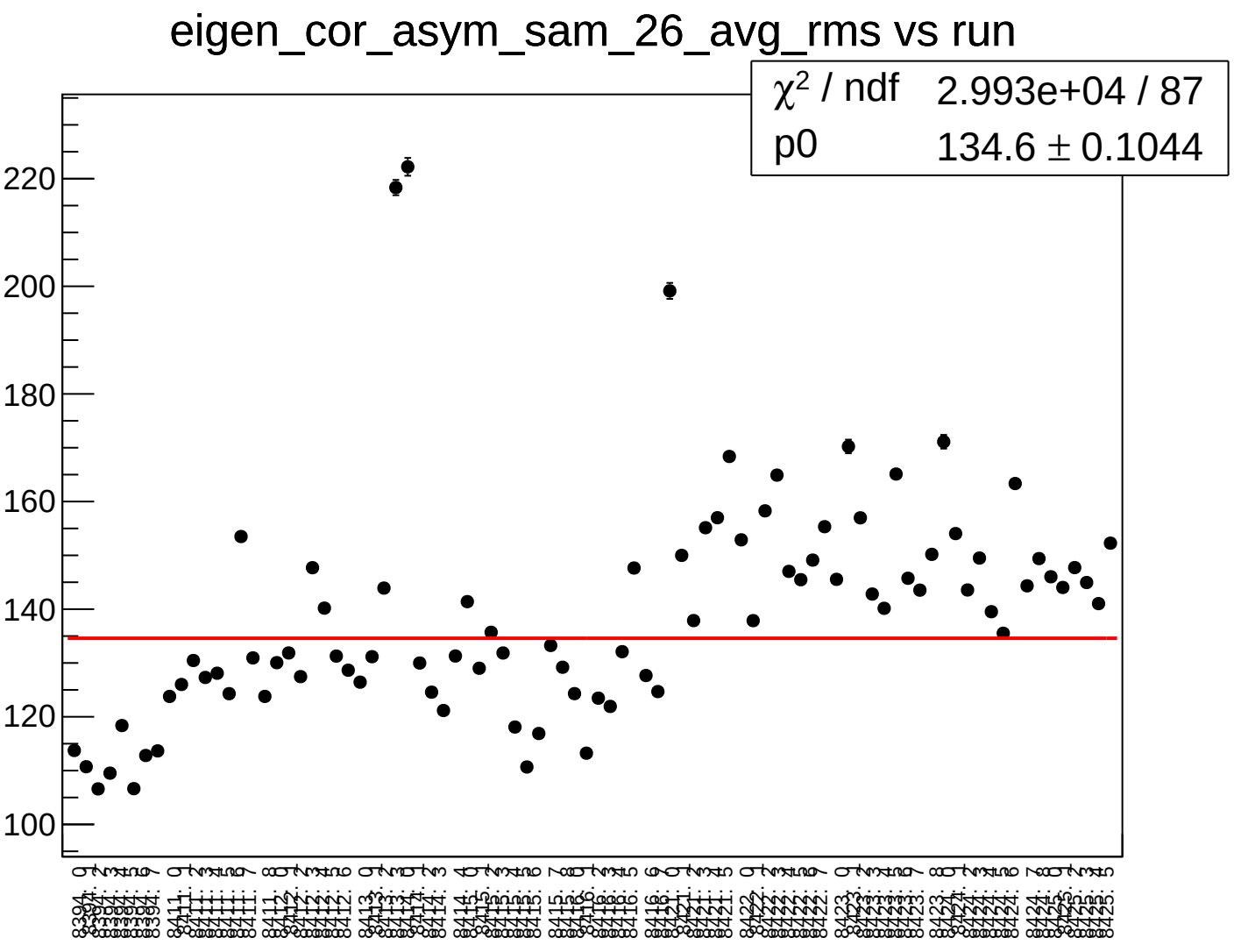

cor_asym_sam_26_avg_rms vs run
χ² / ndf 2.993e+04 / 87
p0 134.6 ± 0.1044
220
200
180
160
140
120
100

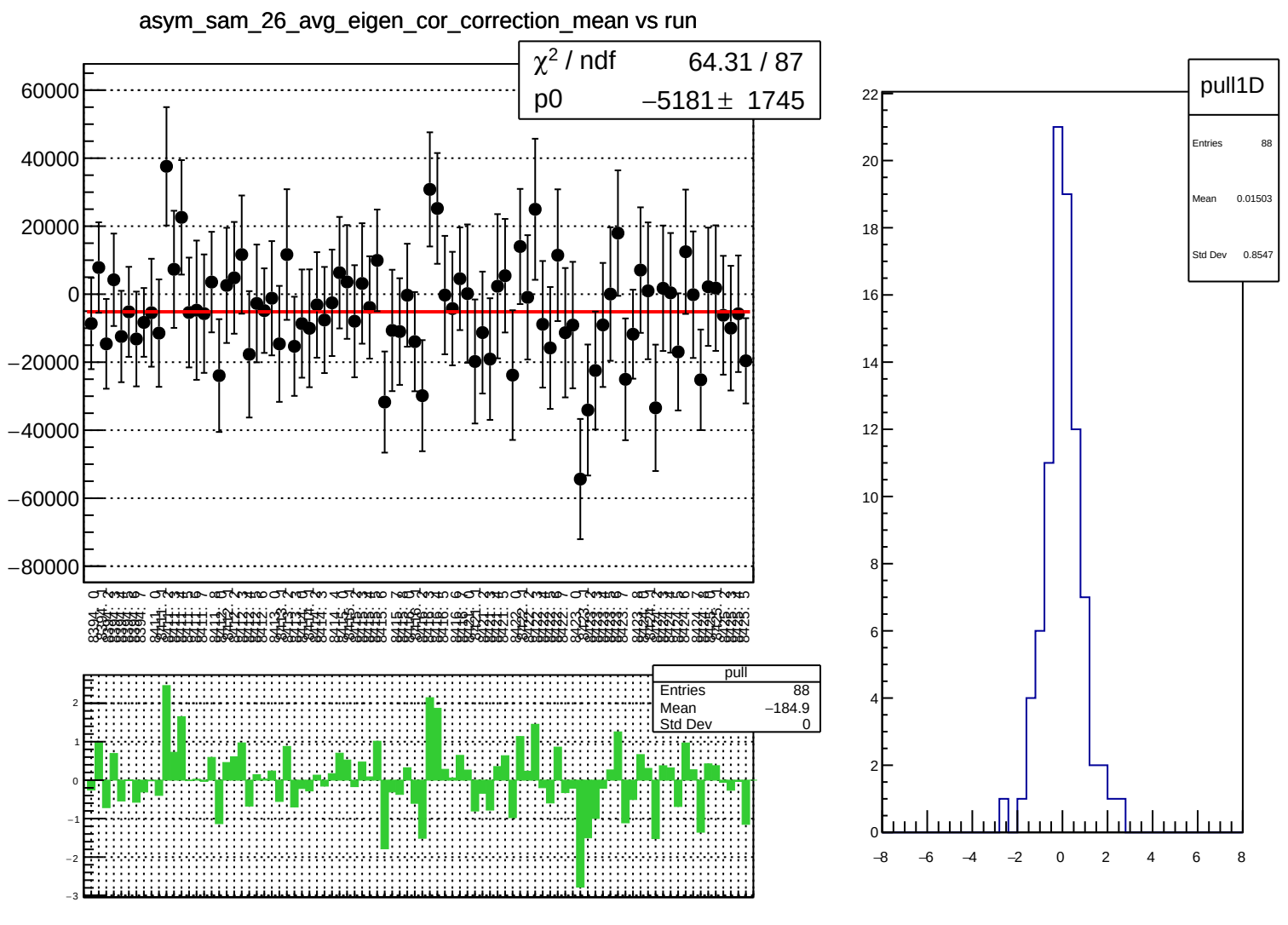

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 64.31 / 87
p0 −5181 ± 1745
pull
Entries 88
Mean −184.9
Std Dev 0
pull1D
Entries 88
Mean 0.01503
Std Dev 0.8547

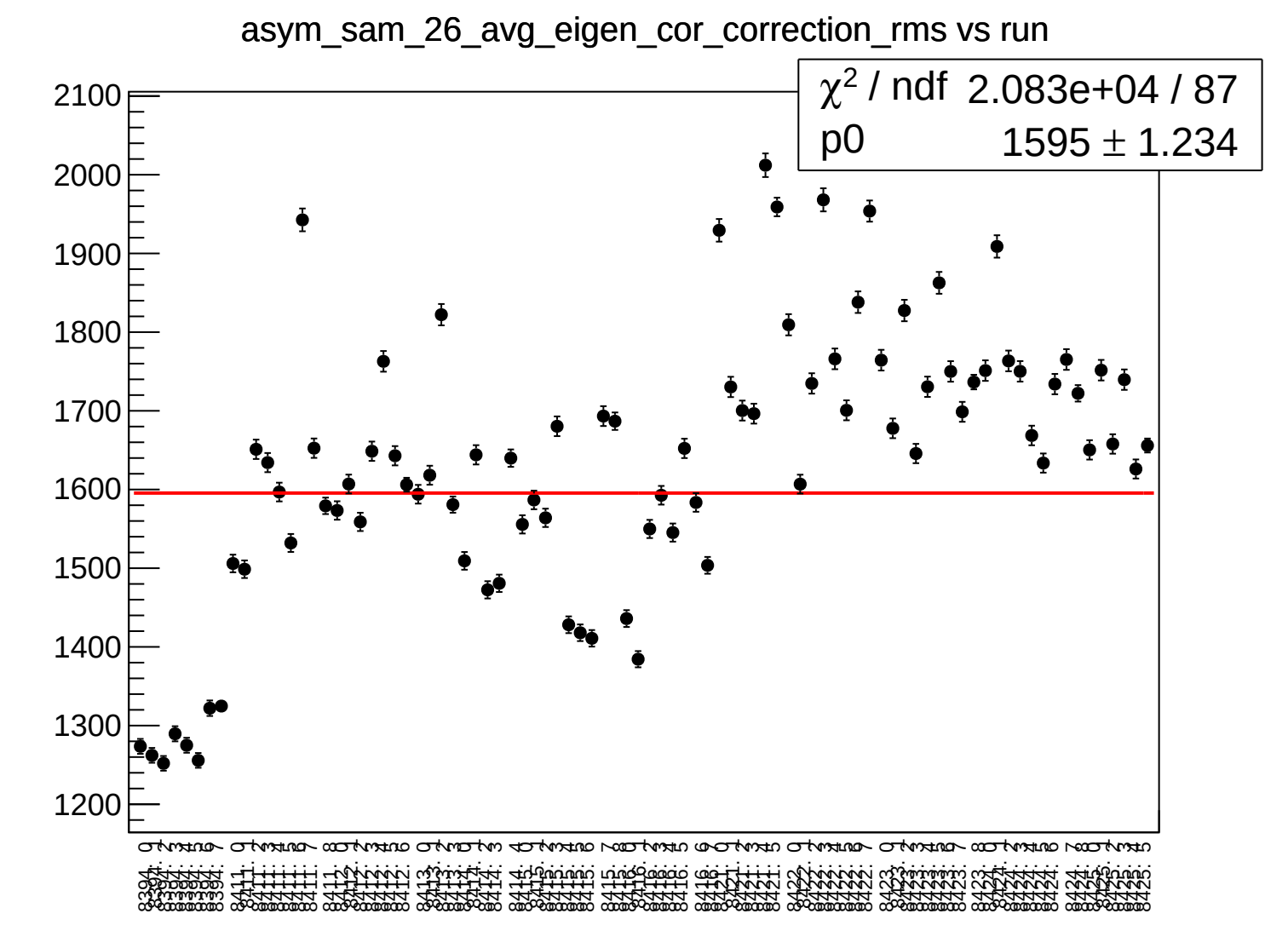

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 2.083e+04 / 87
p0 1595 ± 1.234
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200

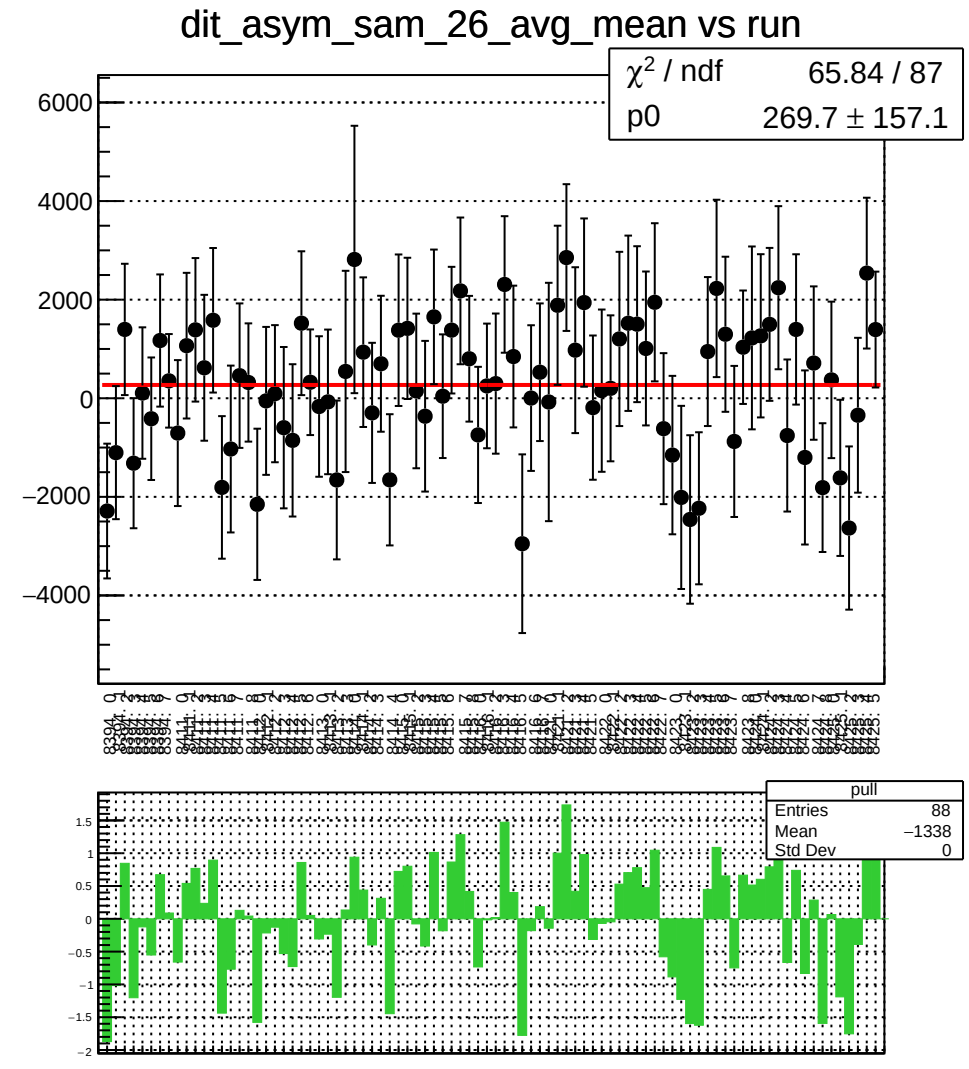

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 69.7 / 87
p0 202.9 ± 147.6
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 337.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

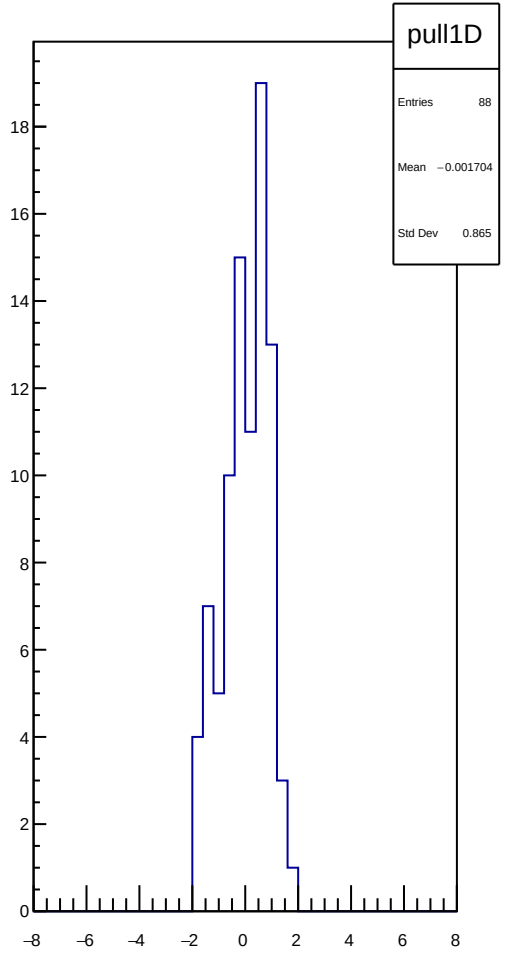

pull1D
Entries 88
Mean 0.01441
Std Dev 0.8898
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

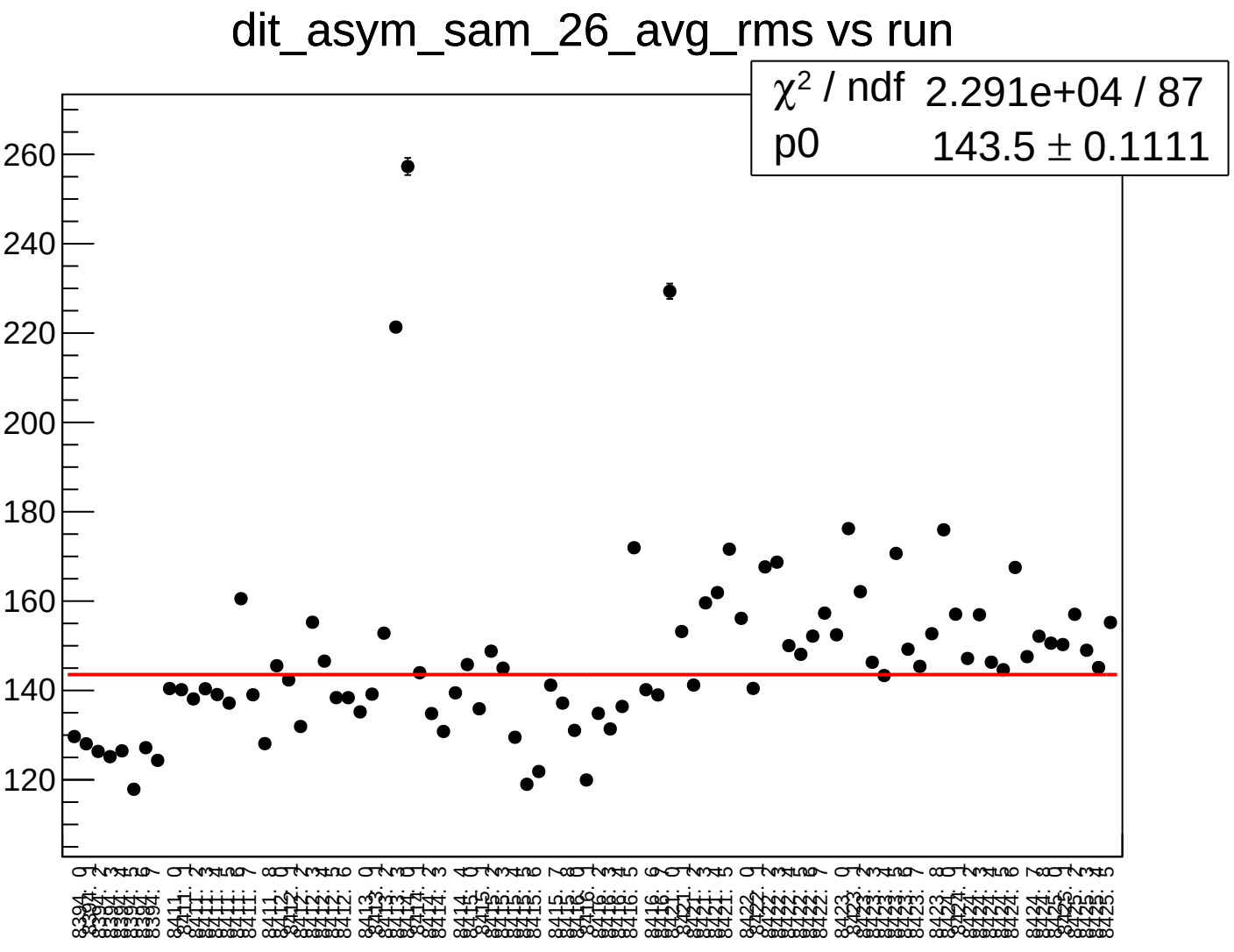

eigen_cor_asym_sam_26_avg_rms vs run
χ^2 / ndf 2.993e+04 / 87
p0 134.6 ± 0.1044
220
200
180
160
140
120
100

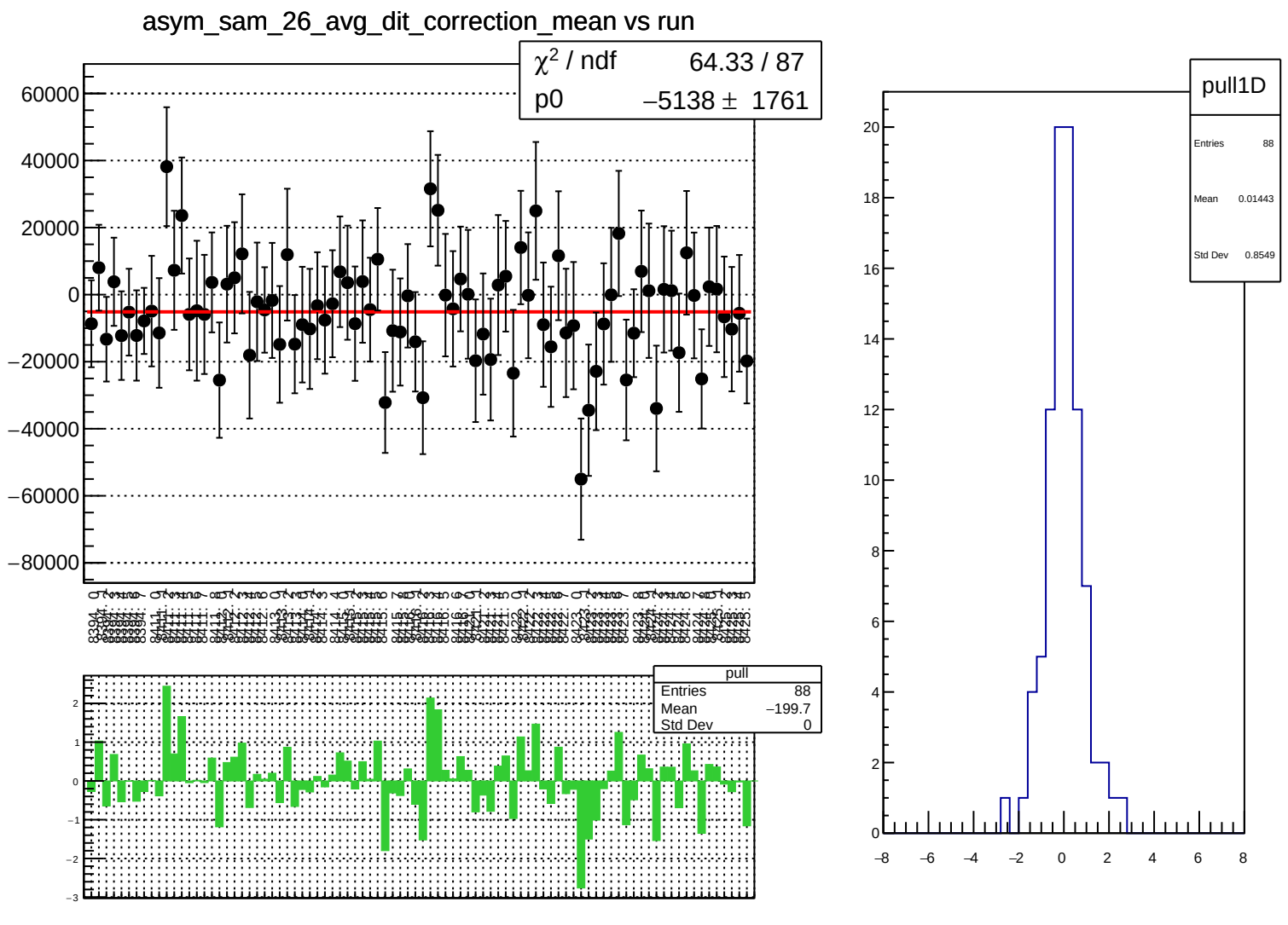

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 64.31 / 87
p0 −5181 ± 1745
pull
Entries 88
Mean −184.9
Std Dev 0
pull1D
Entries 88
Mean 0.01503
Std Dev 0.8547

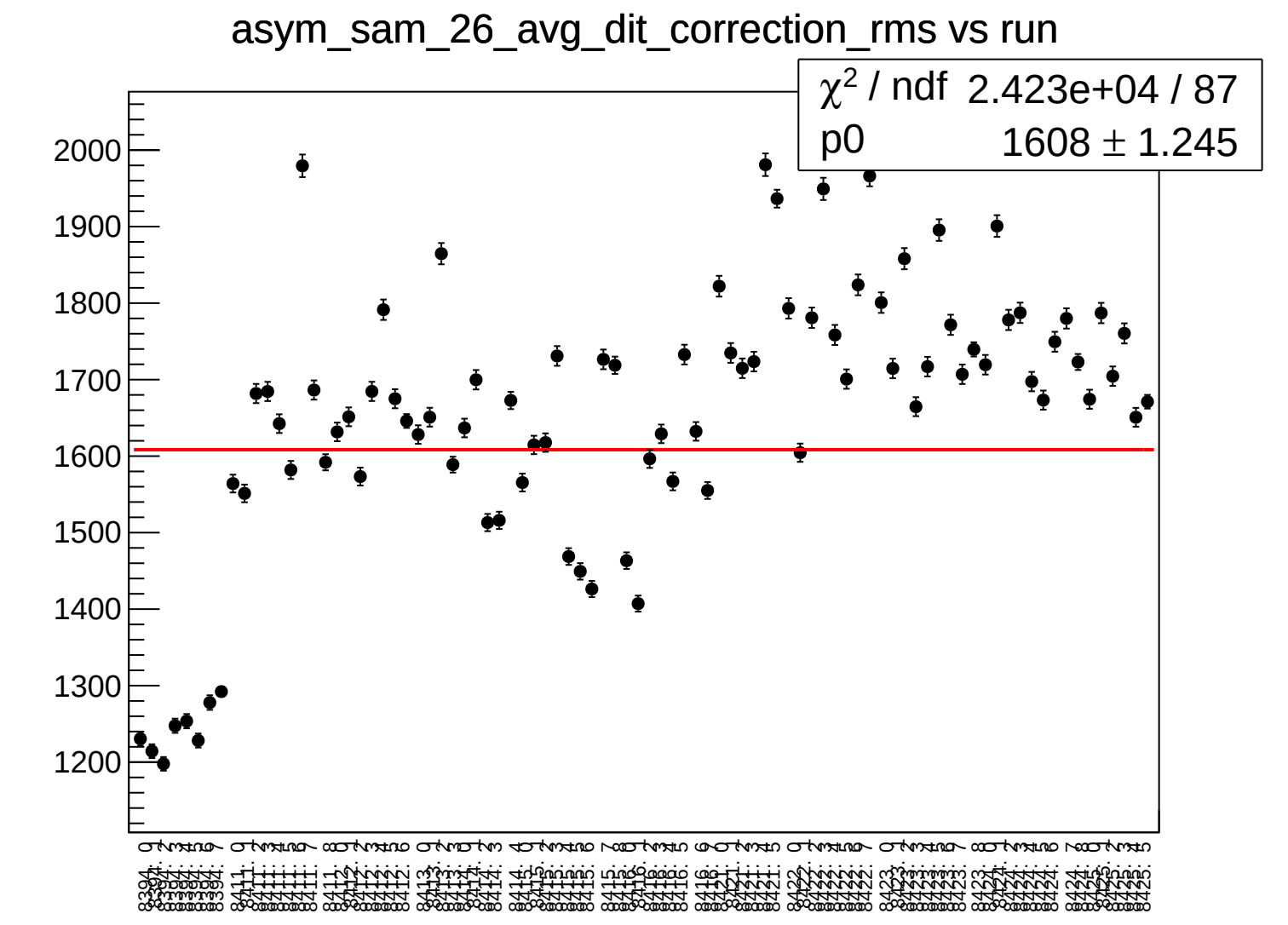

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.083e+04 / 87
p0 1595 ± 1.234
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200

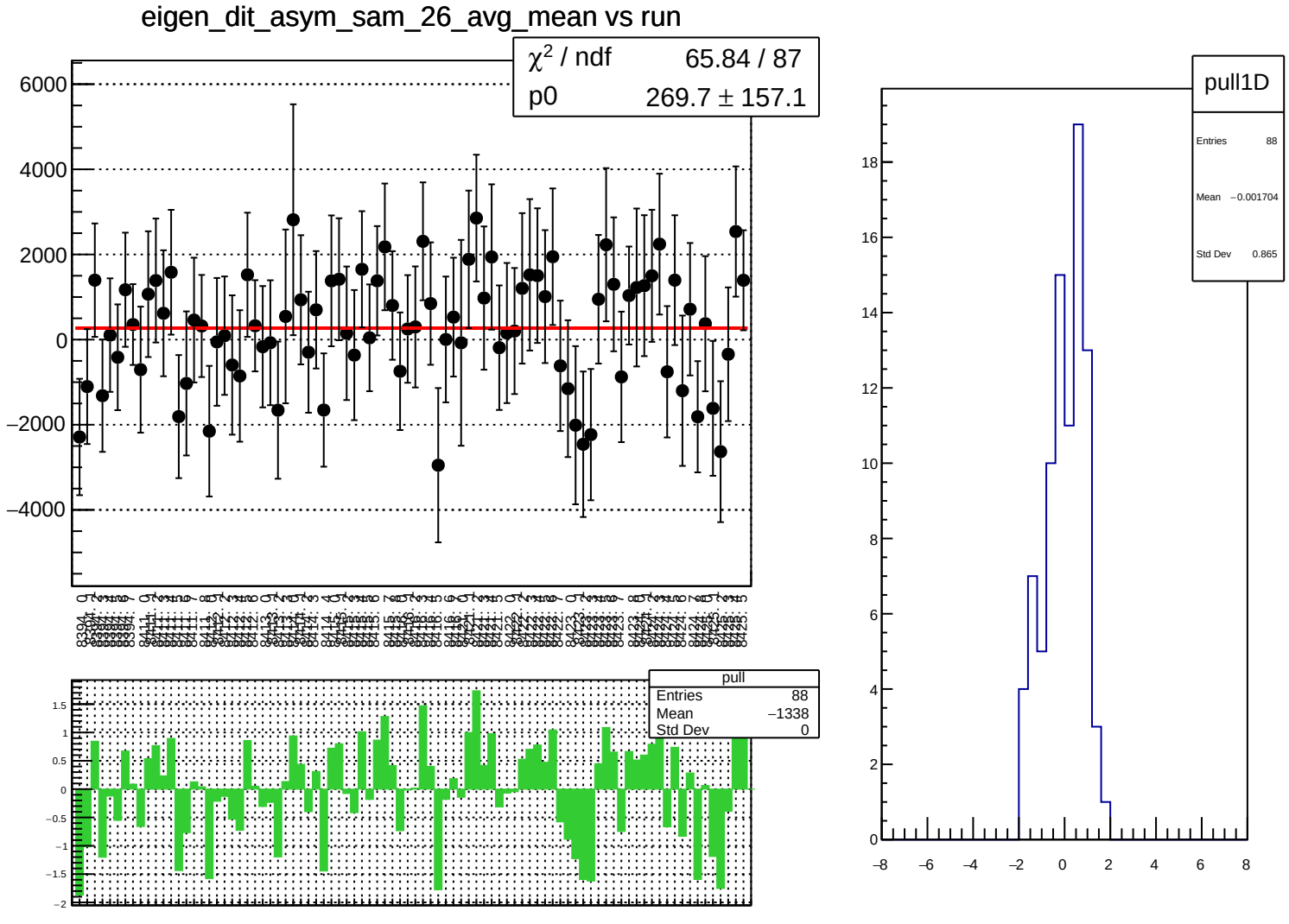

dit_asym_sam_26_avg_mean vs run
χ² / ndf 65.84 / 87
p0 269.7 ± 157.1
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −1338
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

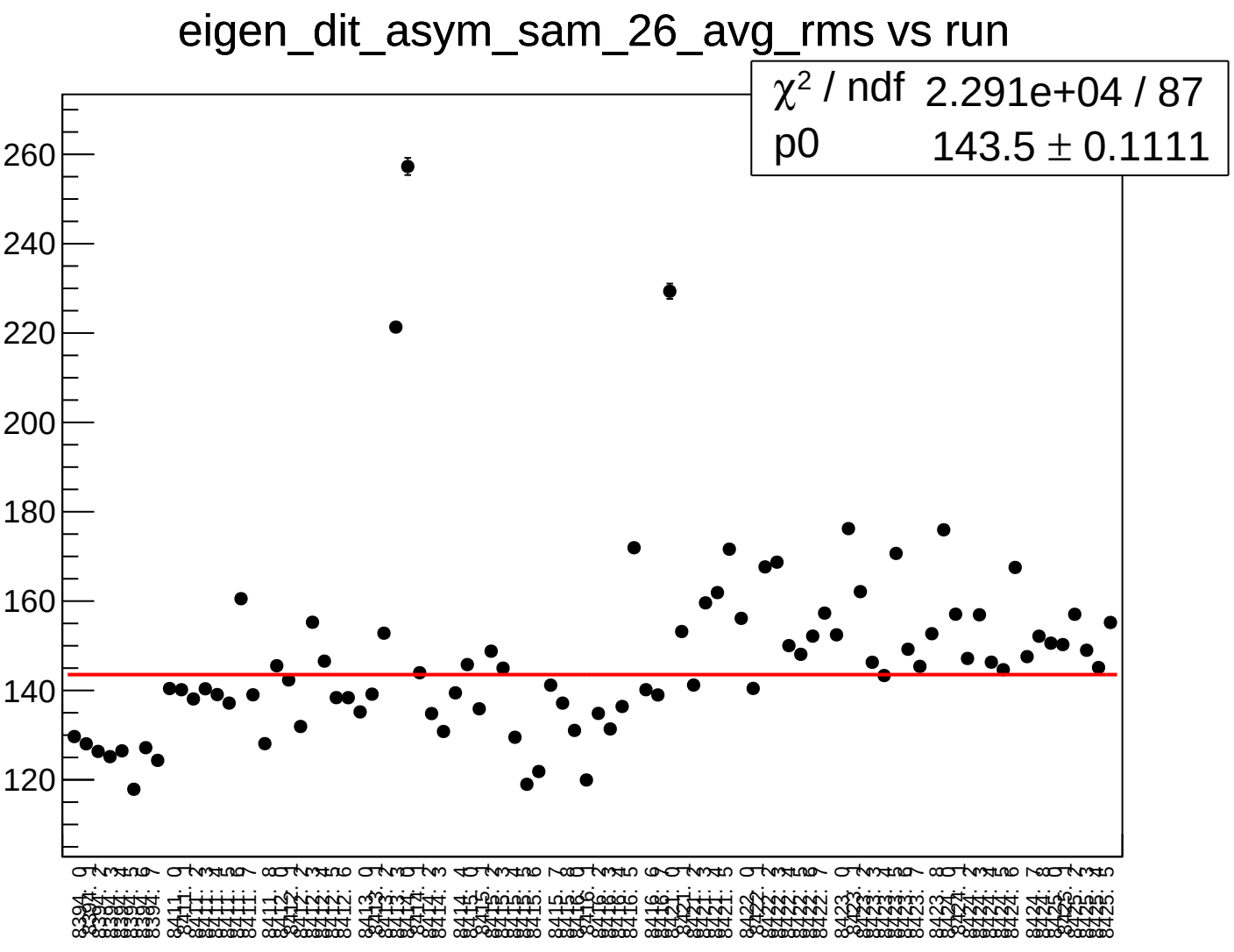

pull1D
Entries 88
Mean −0.001704
Std Dev 0.865
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

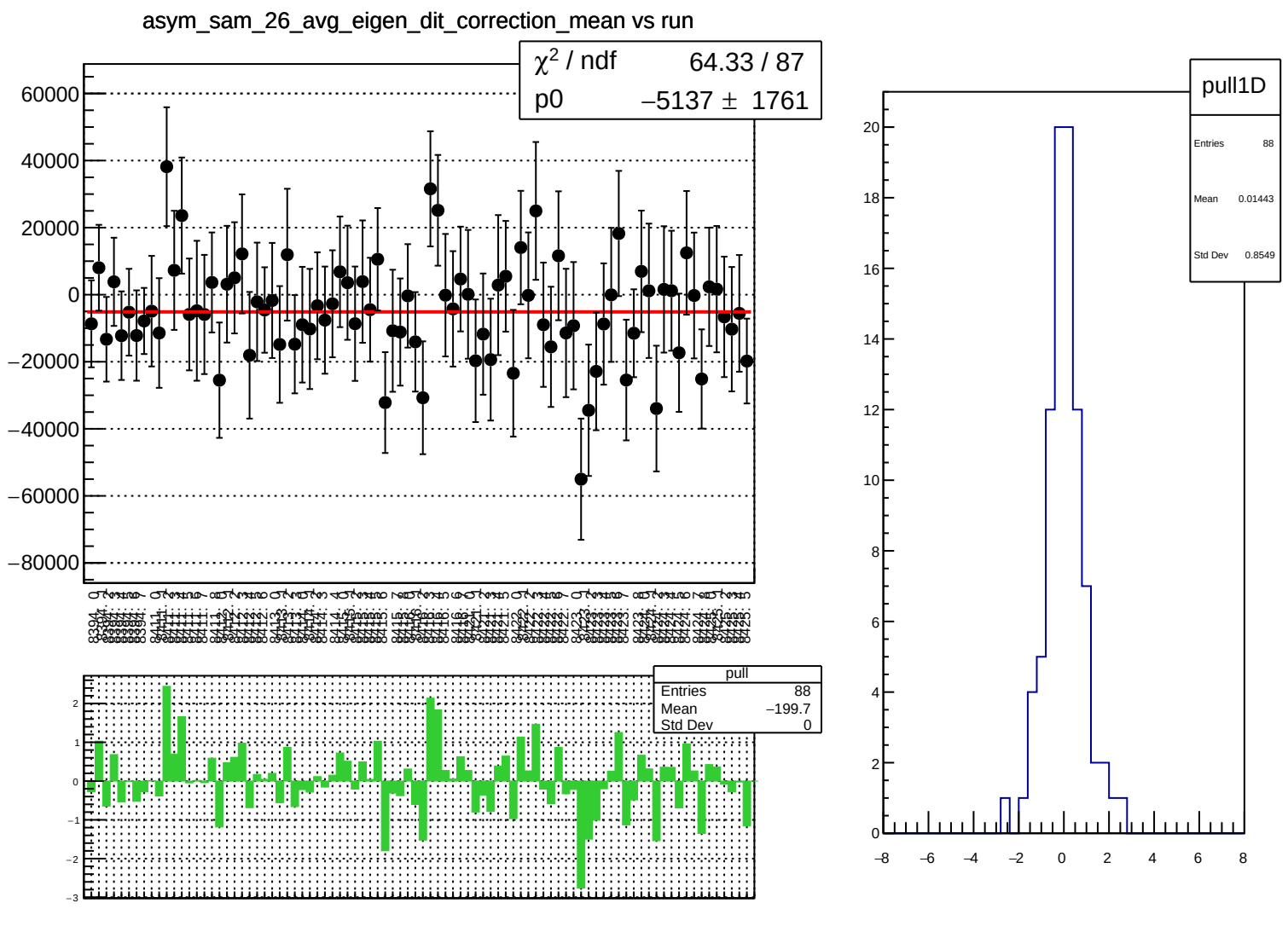

dit_asym_sam_26_avg_rms vs run
χ² / ndf 2.291e+04 / 87
p0 143.5 ± 0.1111
260
240
220
200
180
160
140
120

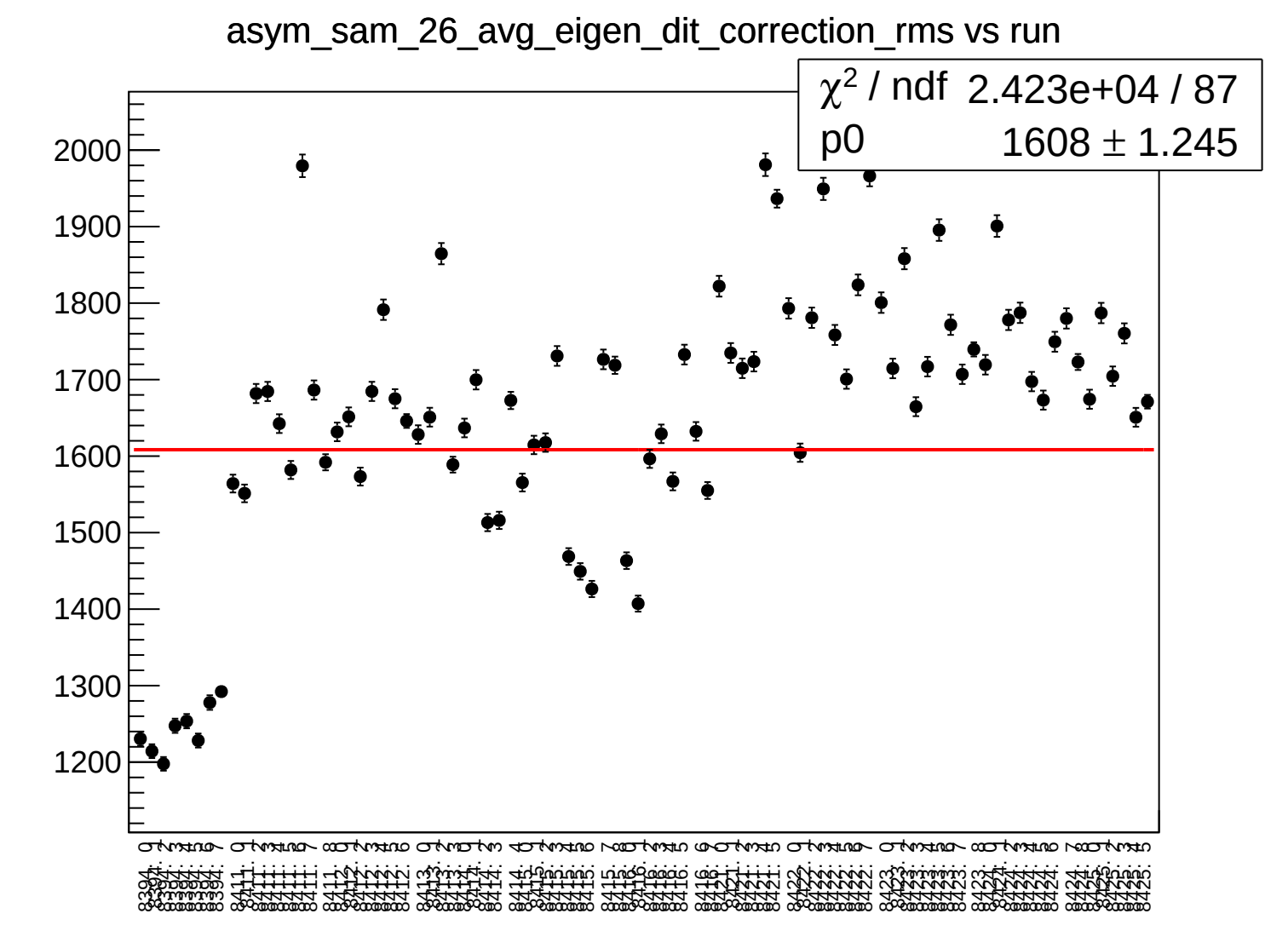

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 64.33 / 87
p0 −5138 ± 1761
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −199.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.01443
Std Dev 0.8549
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

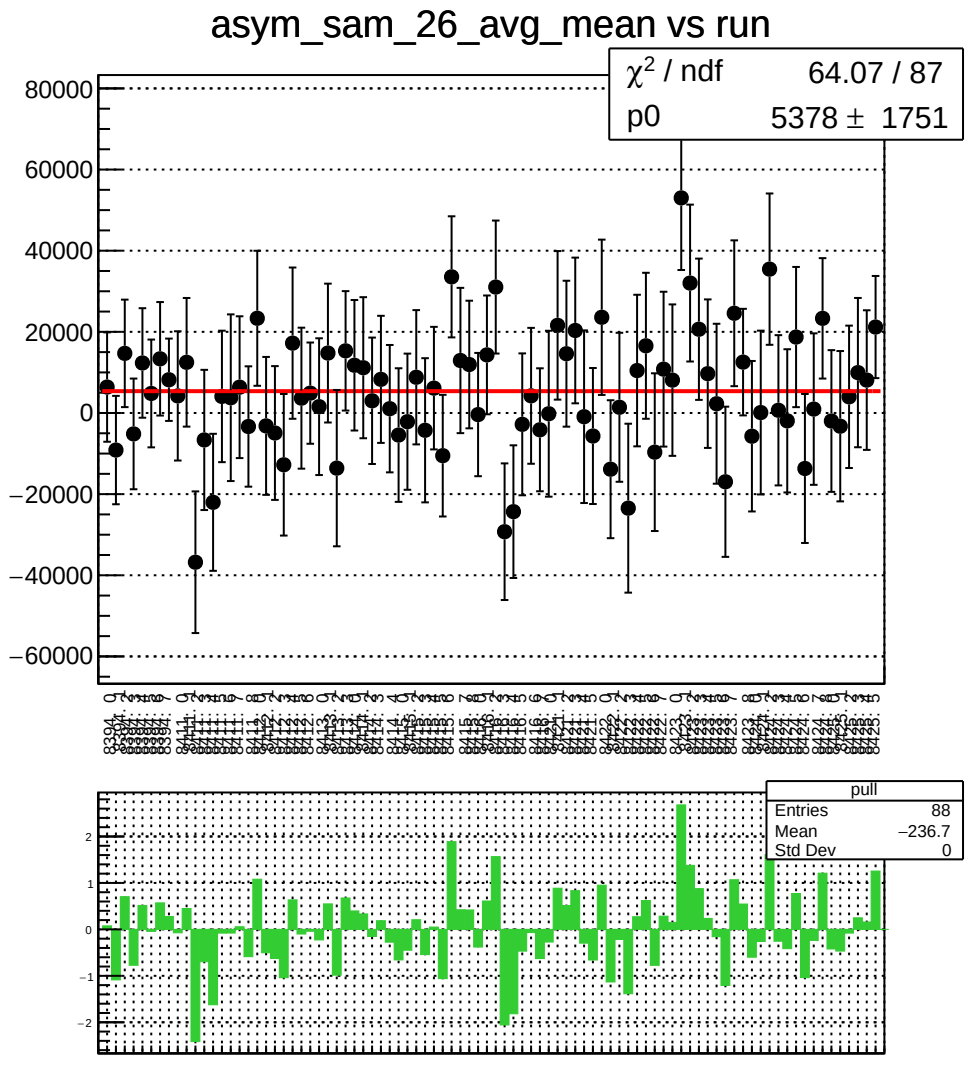

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 2.423e+04 / 87
p0 1608 ± 1.245
2000
1900
1800
1700
1600
1500
1400
1300
1200

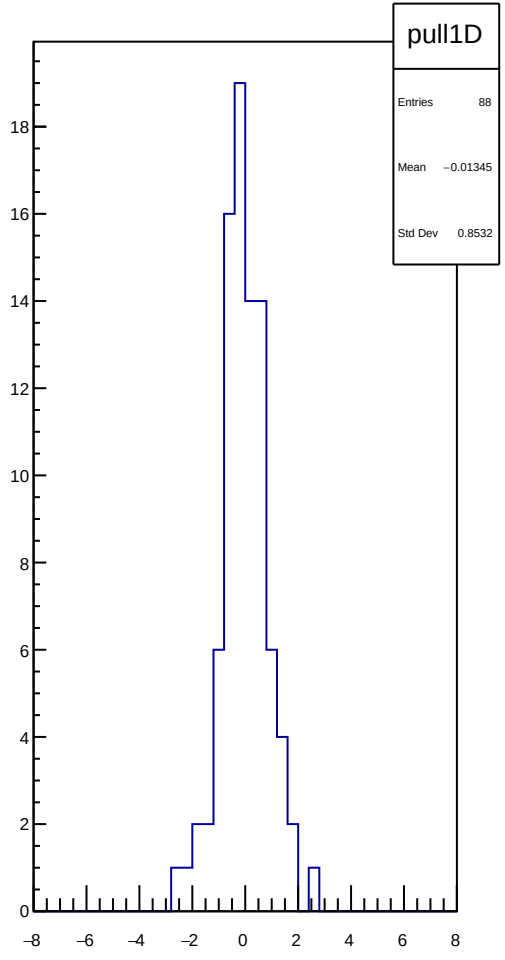

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 65.84 / 87
p0 269.7 ± 157.1
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −1338
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.001704
Std Dev 0.865
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

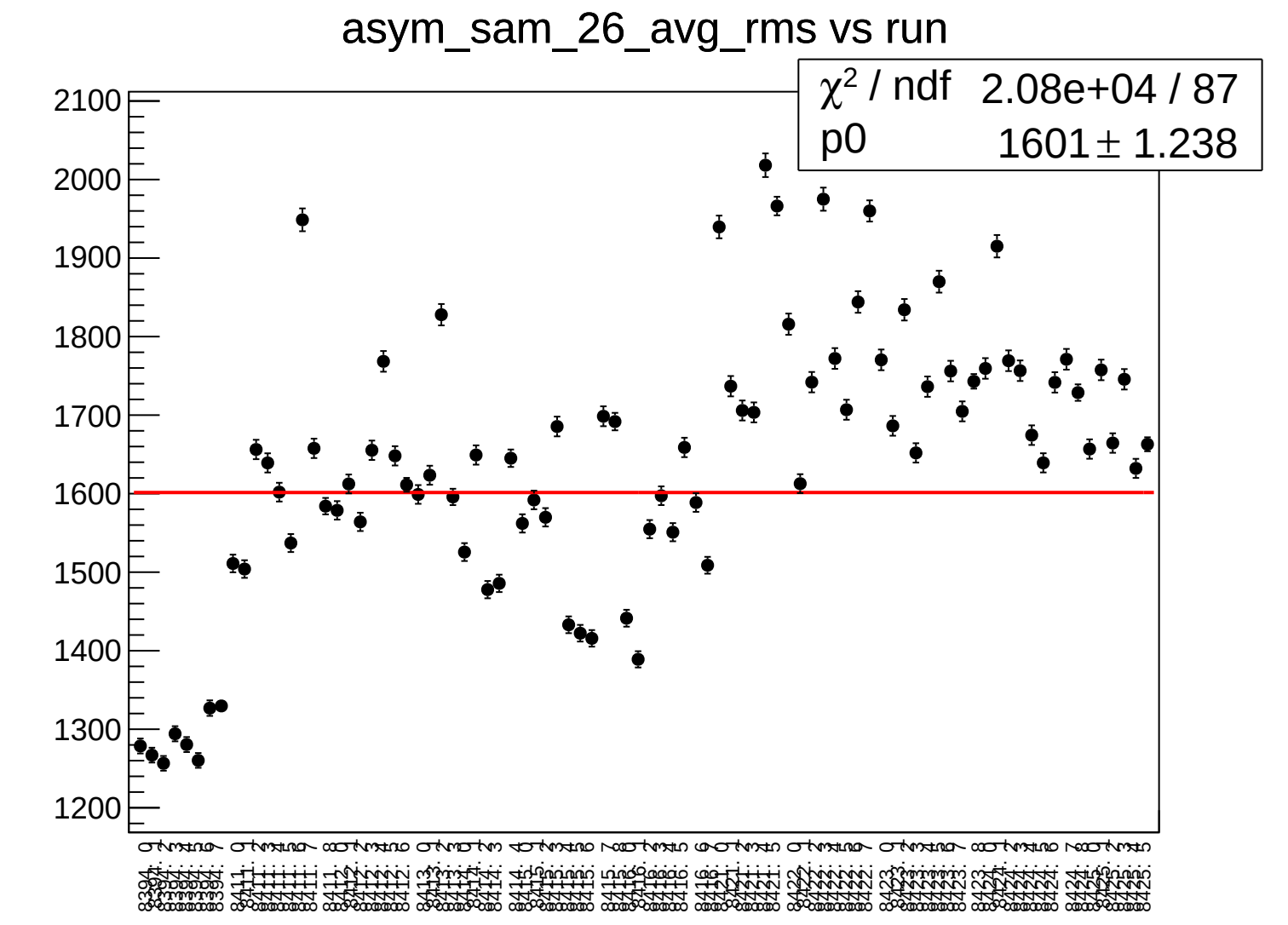

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 2.291e+04 / 87
p0 143.5 ± 0.1111
260
240
220
200
180
160
140
120

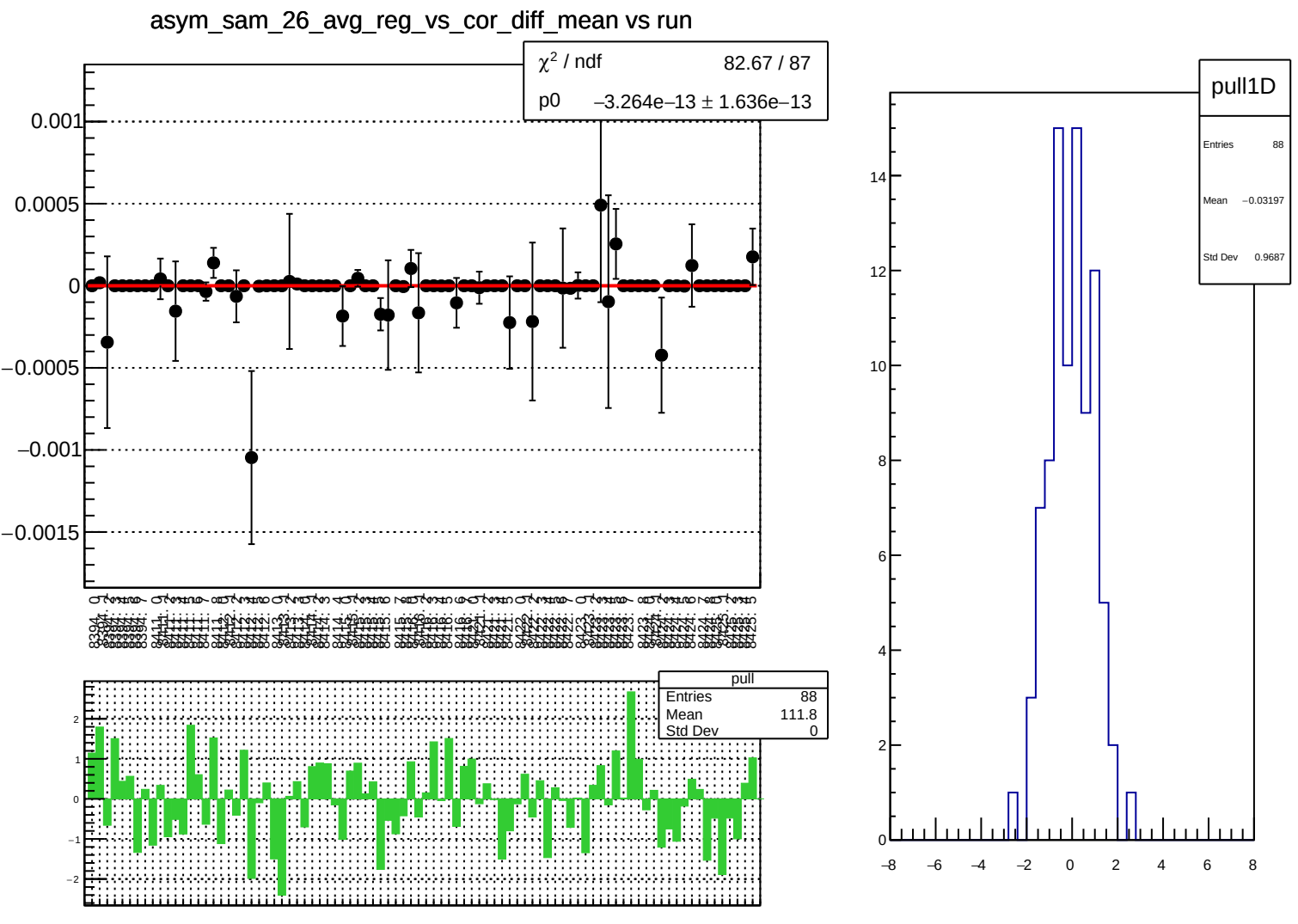

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 64.33 / 87
p0 −5137 ± 1761
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −199.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.01443
Std Dev 0.8549
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

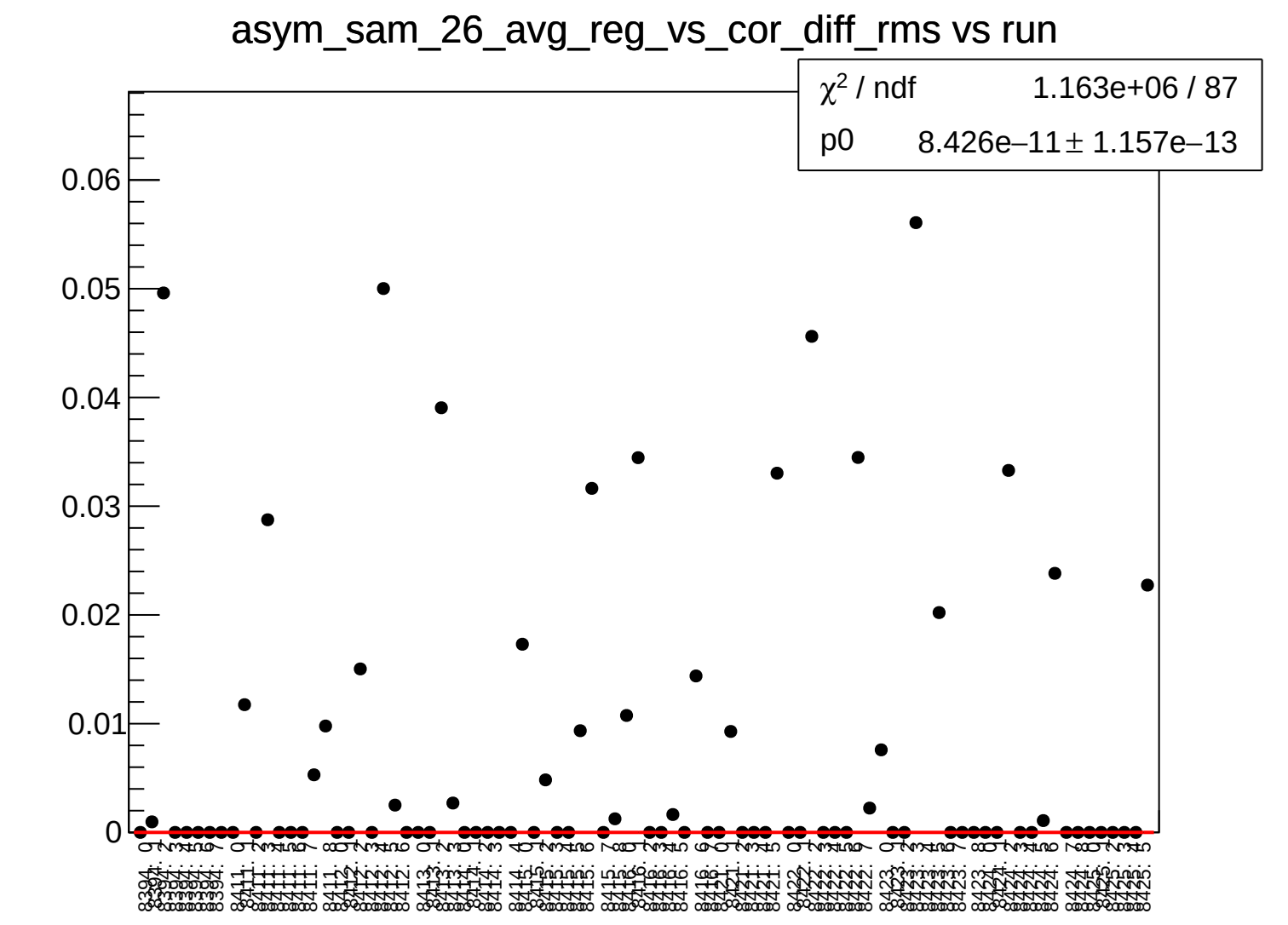

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.423e+04 / 87
p0 1608 ± 1.245
2000
1900
1800
1700
1600
1500
1400
1300
1200

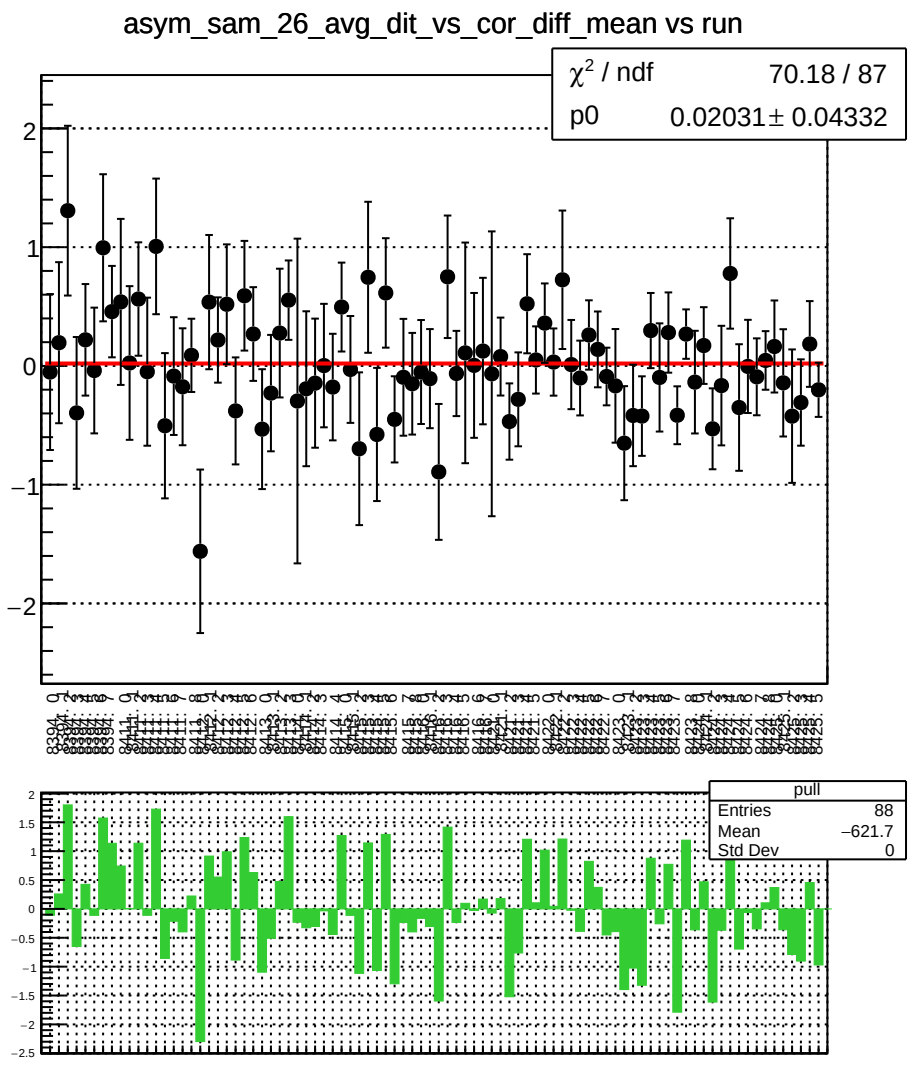

asym_sam_26_avg_mean vs run
χ² / ndf 64.07 / 87
p0 5378 ± 1751
pull
Entries 88
Mean −236.7
Std Dev 0

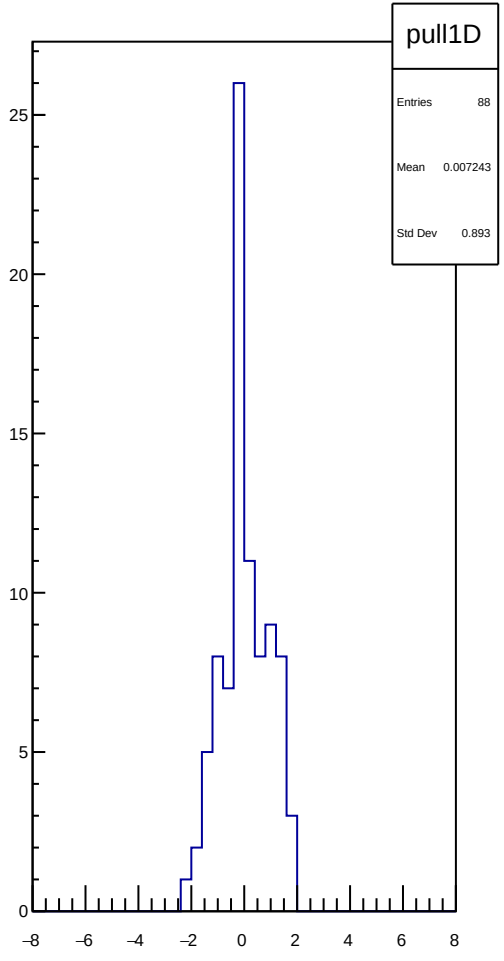

pull1D
Entries 88
Mean −0.01345
Std Dev 0.8532

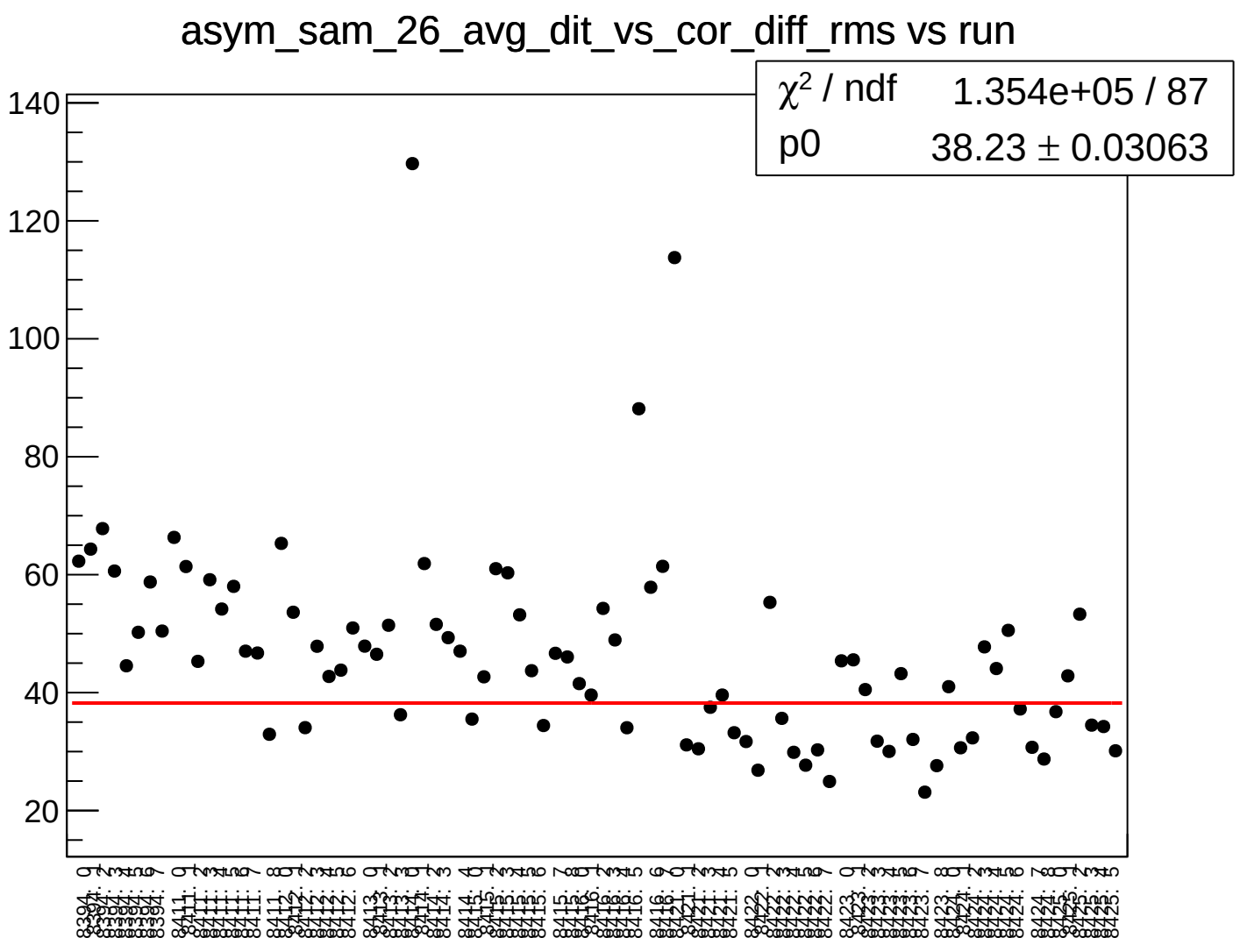

asym_sam_26_avg_rms vs run
χ² / ndf 2.08e+04 / 87
p0 1601 ± 1.238
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200

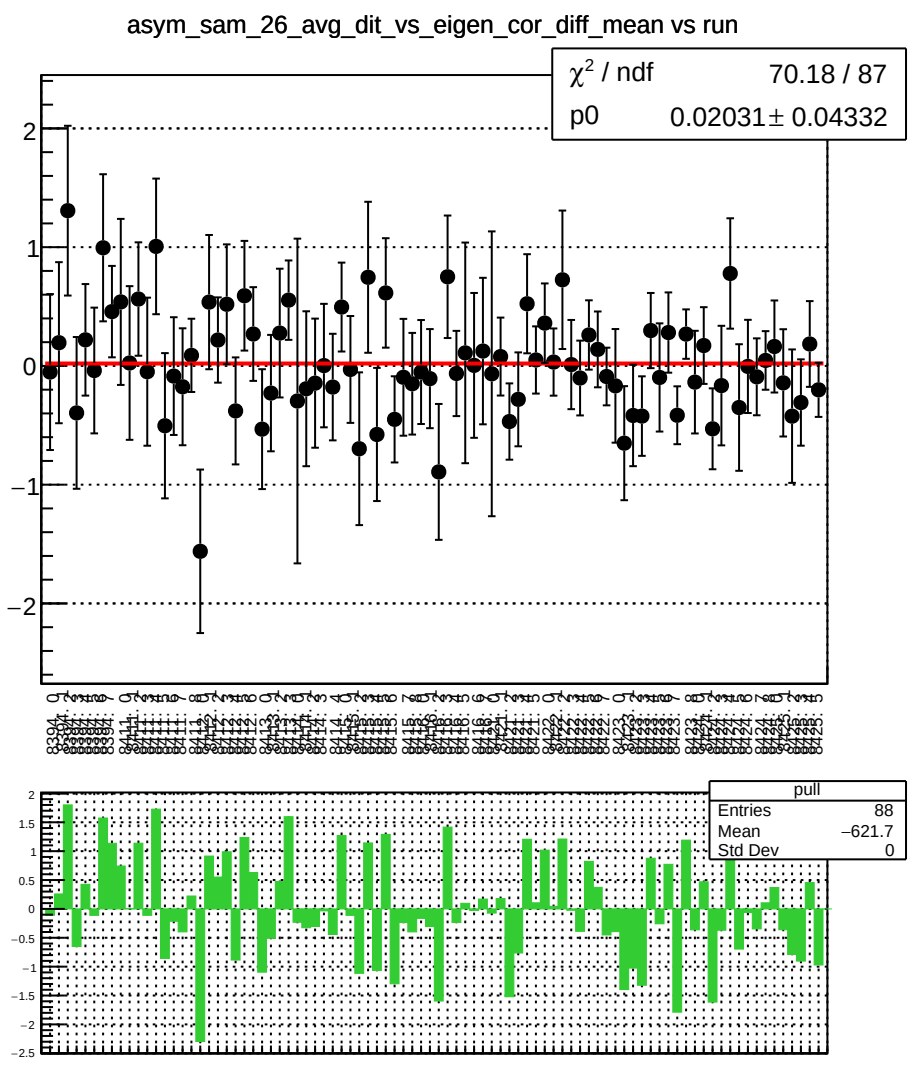

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.67 / 87
p0 −3.264e−13 ± 1.636e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 88
Mean 111.8
Std Dev 0
pull1D
Entries 88
Mean −0.03197
Std Dev 0.9687

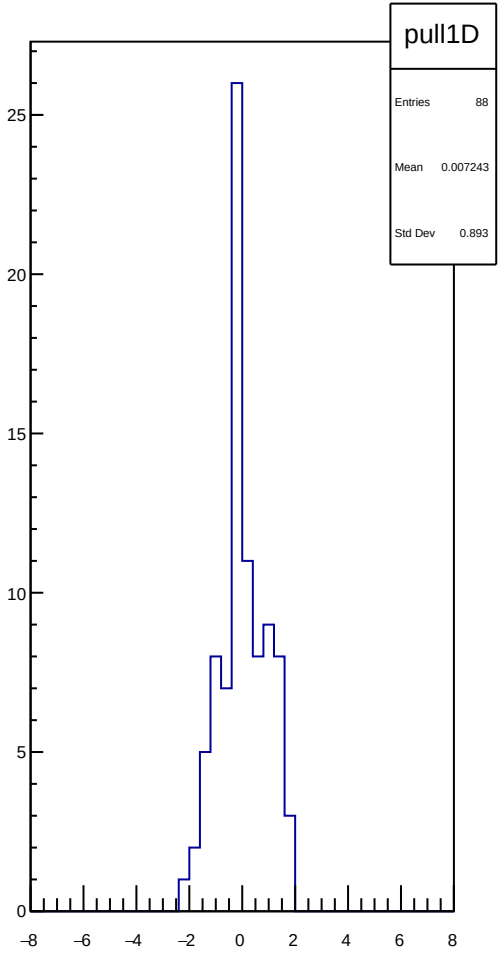

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.163e+06 / 87
p0 8.426e−11 ± 1.157e−13
0.06
0.05
0.04
0.03
0.02
0.01
0

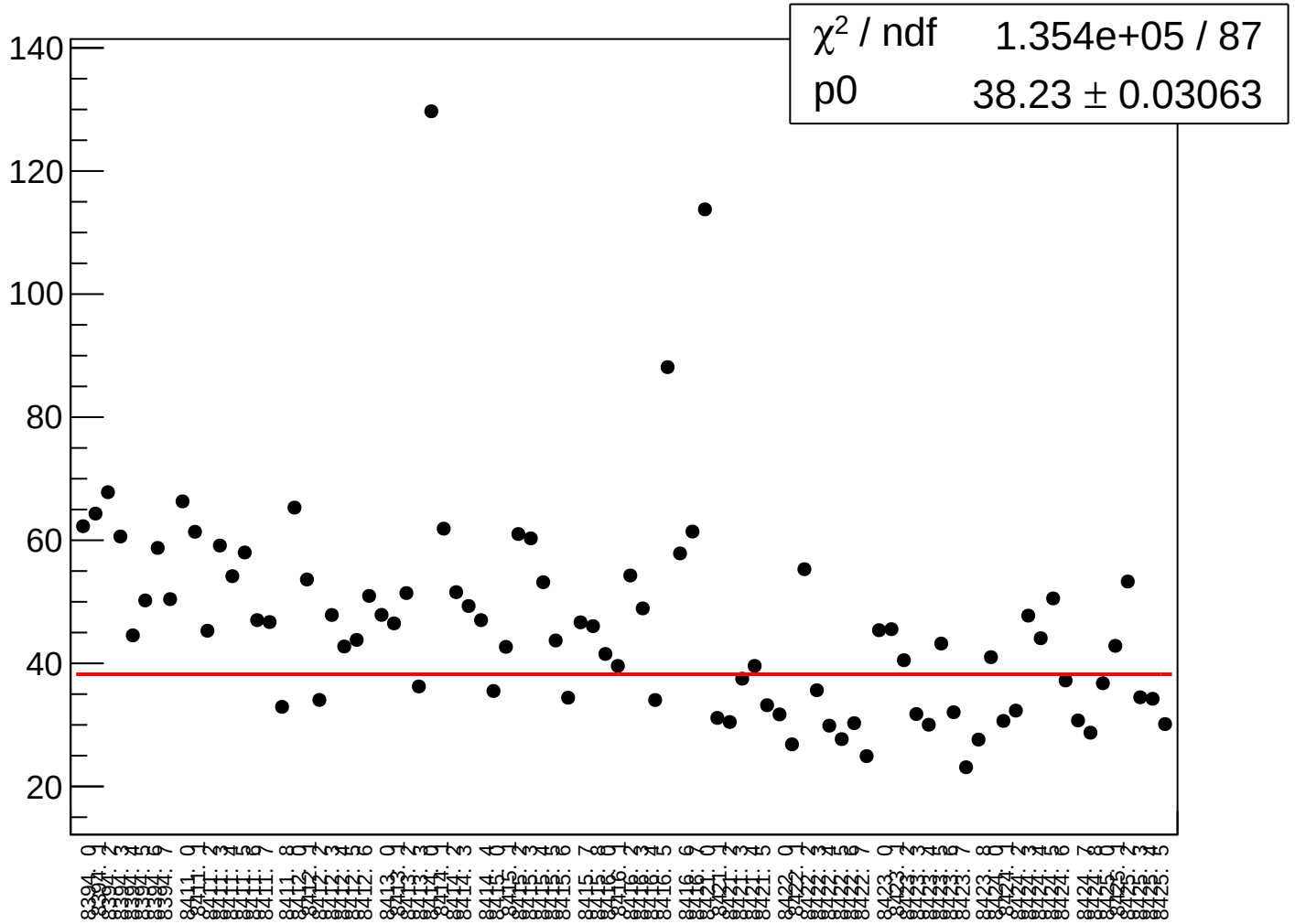

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 70.18 / 87
p0 0.02031 ± 0.04332
pull
Entries 88
Mean −621.7
Std Dev 0

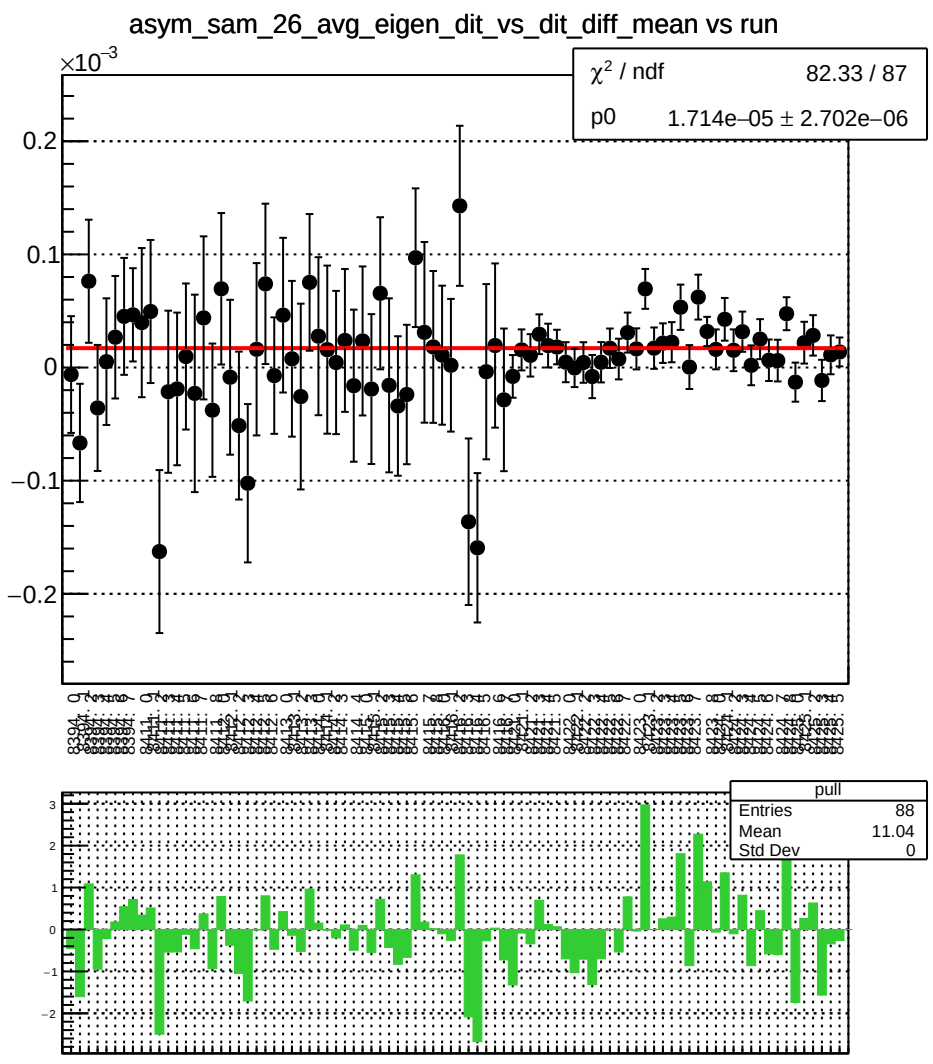

pull1D
Entries 88
Mean 0.007243
Std Dev 0.893

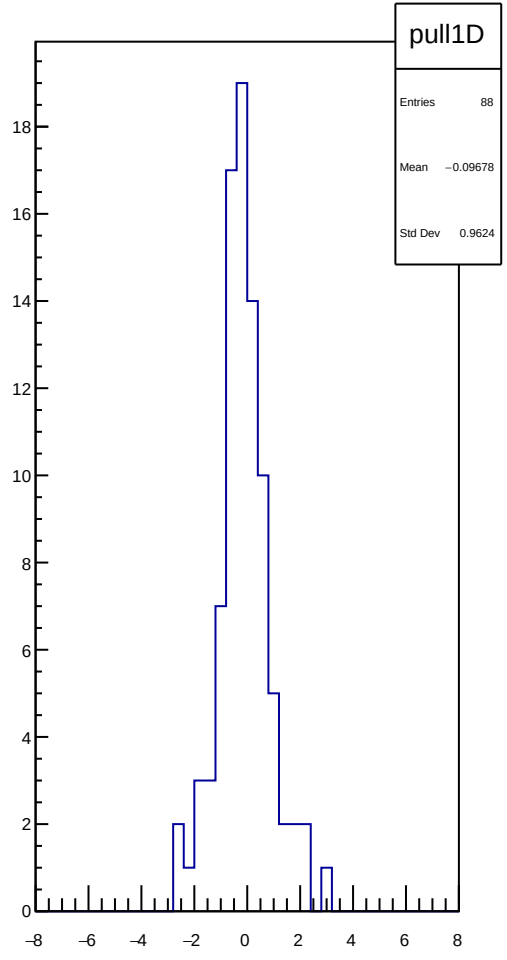

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.354e+05 / 87
p0 38.23 ± 0.03063
140
120
100
80
60
40
20

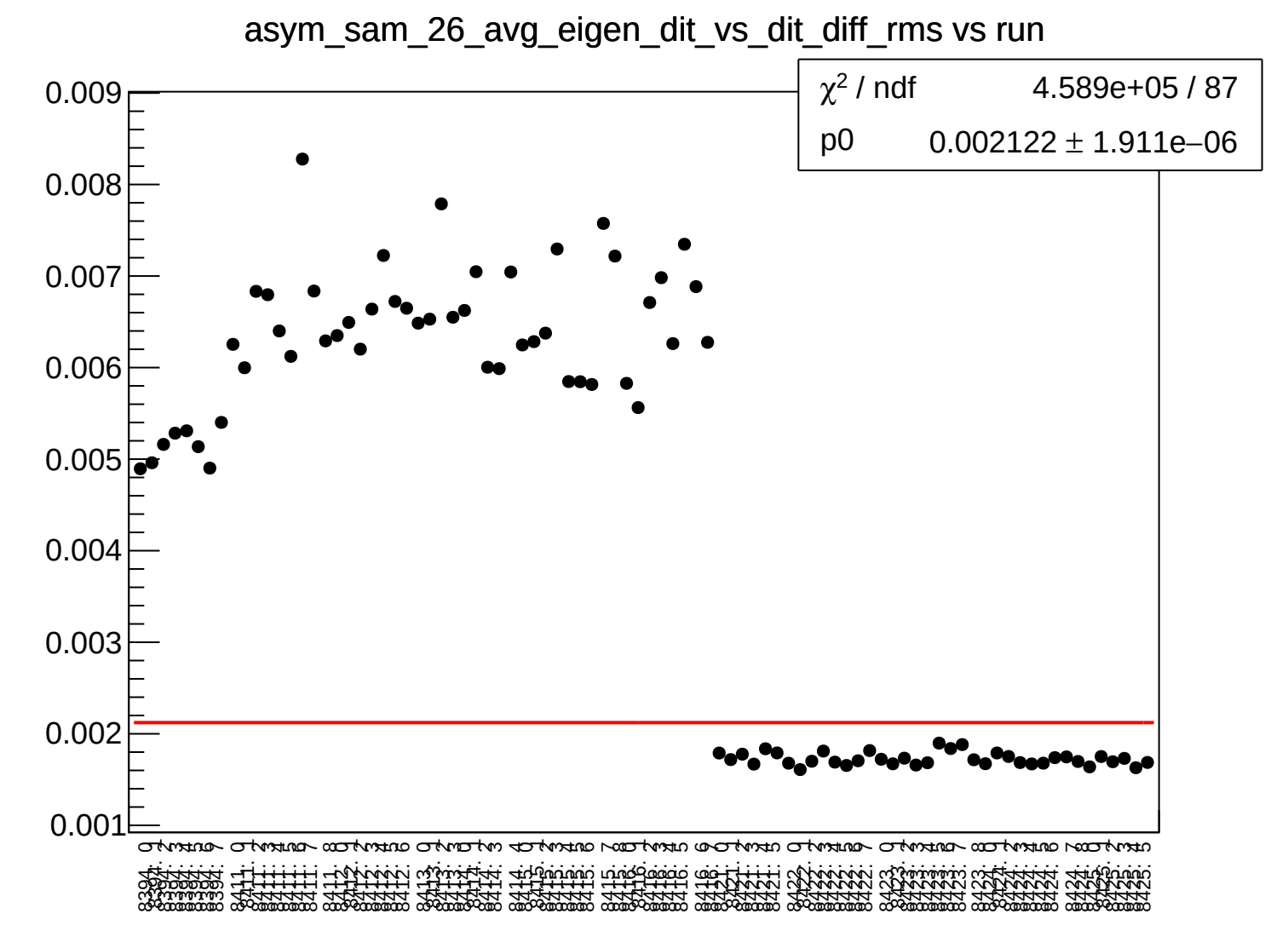

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.18 / 87
p0 0.02031 ± 0.04332
pull
Entries 88
Mean −621.7
Std Dev 0

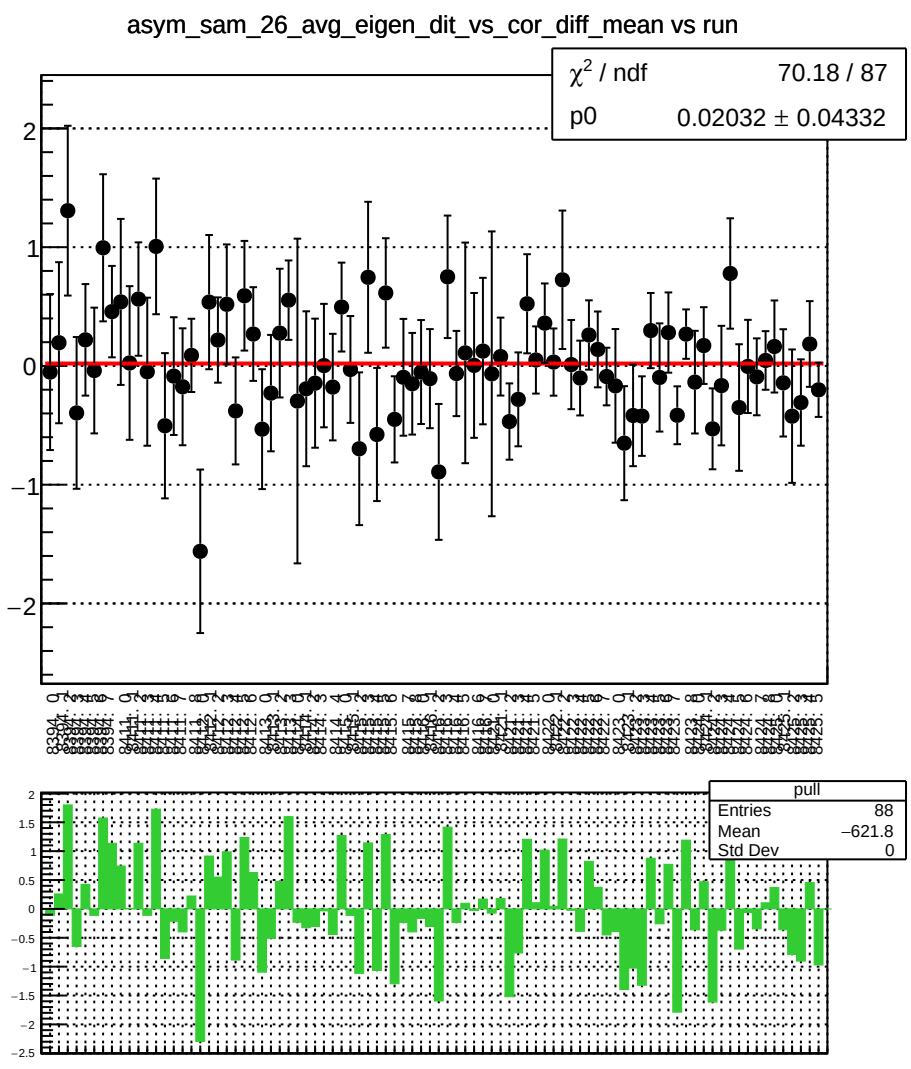

pull1D
Entries 88
Mean 0.007243
Std Dev 0.893

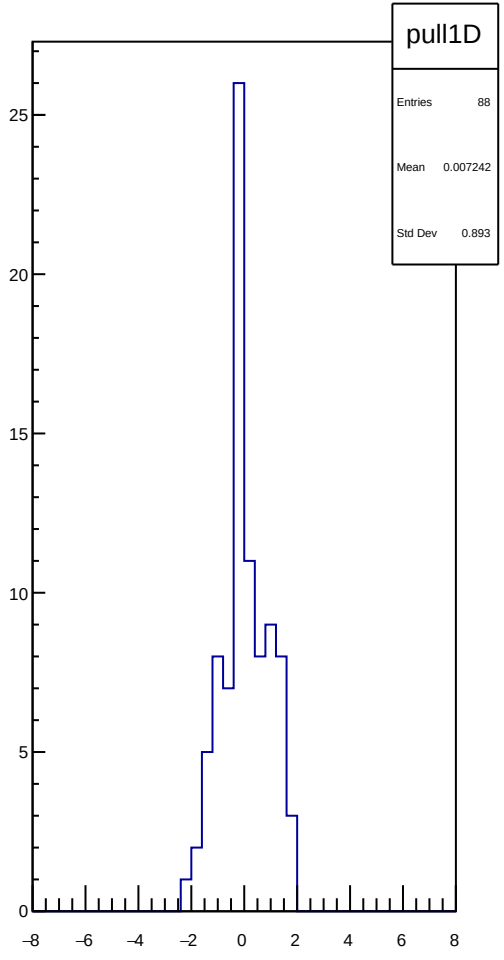

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.354e+05 / 87
p0 38.23 ± 0.03063
140
120
100
80
60
40
20

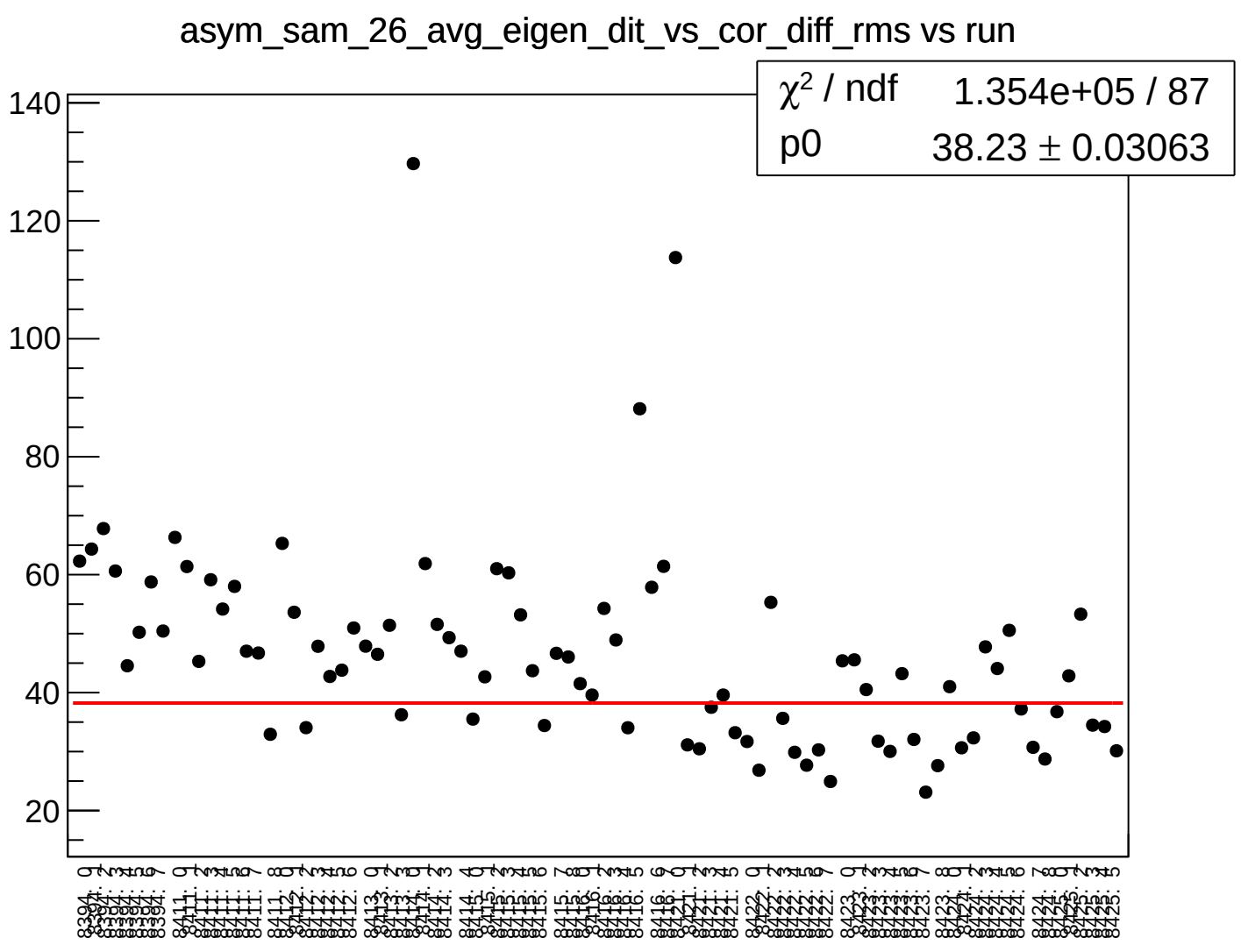

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.33 / 87
p0 1.714e−05 ± 2.702e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 88
Mean 11.04
Std Dev 0
3
2
1
0
−1
−2

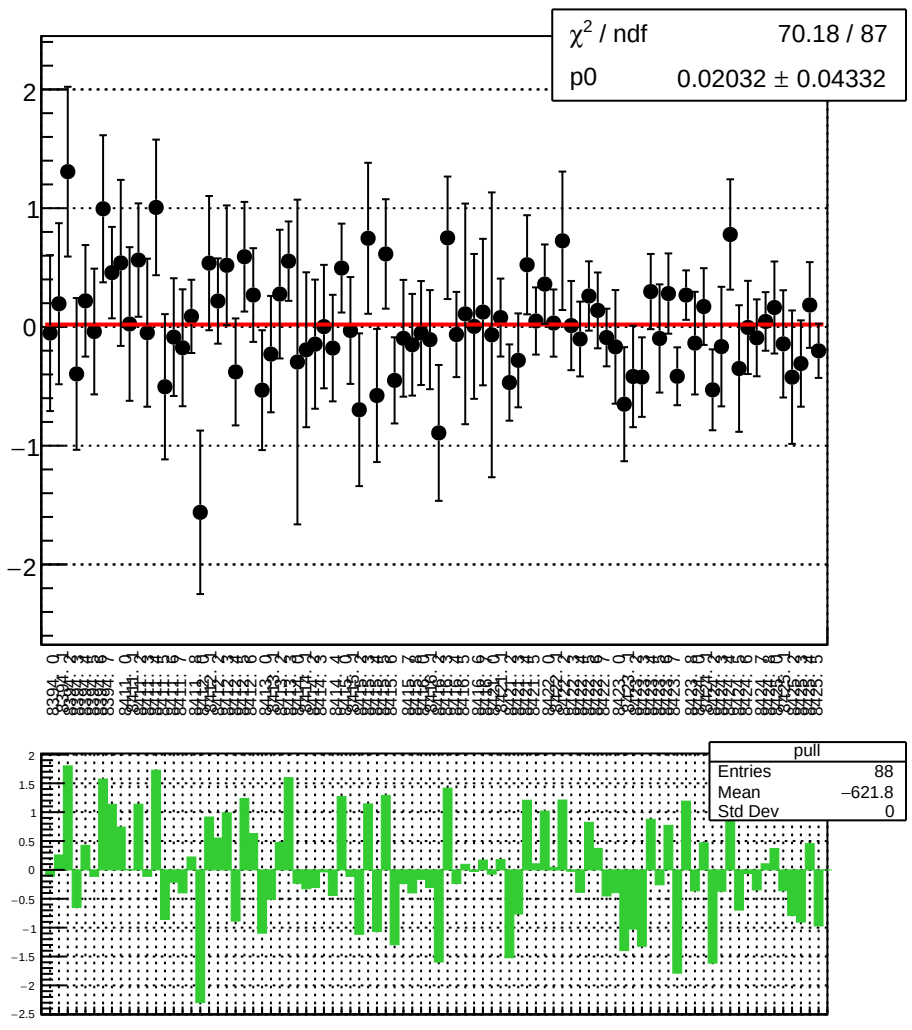

pull1D
Entries 88
Mean −0.09678
Std Dev 0.9624
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

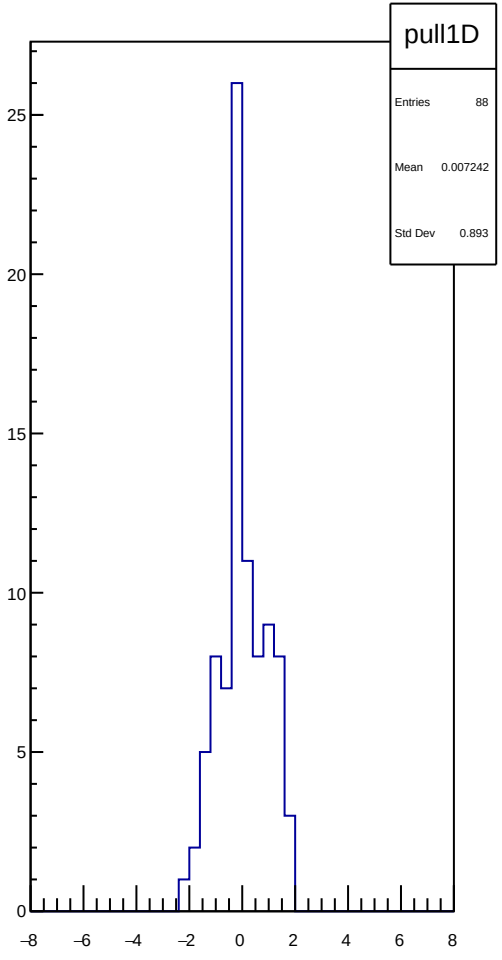

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.589e+05 / 87
p0 0.002122 ± 1.911e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

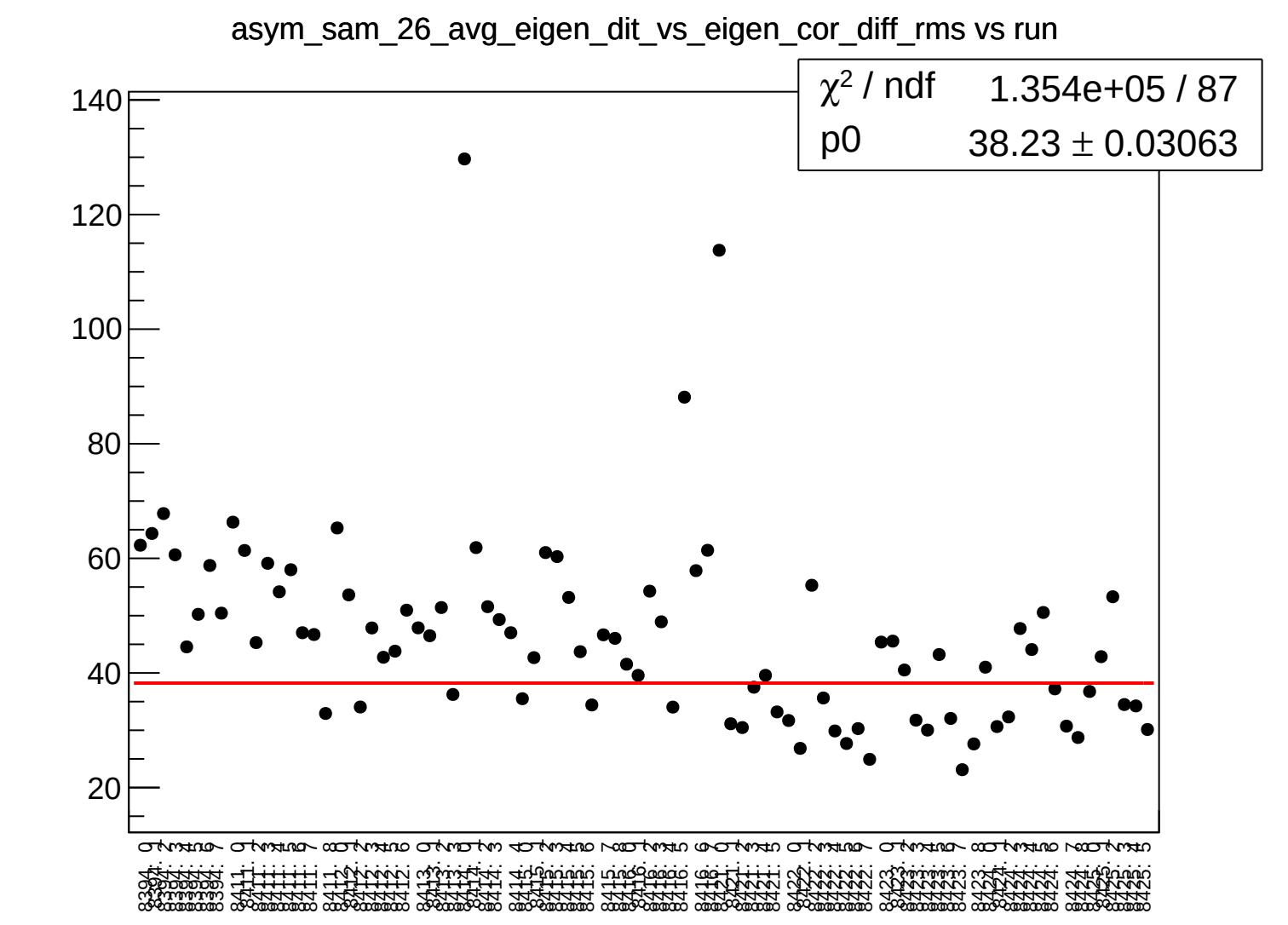

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.18 / 87
p0 0.02032 ± 0.04332
pull
Entries 88
Mean −621.8
Std Dev 0

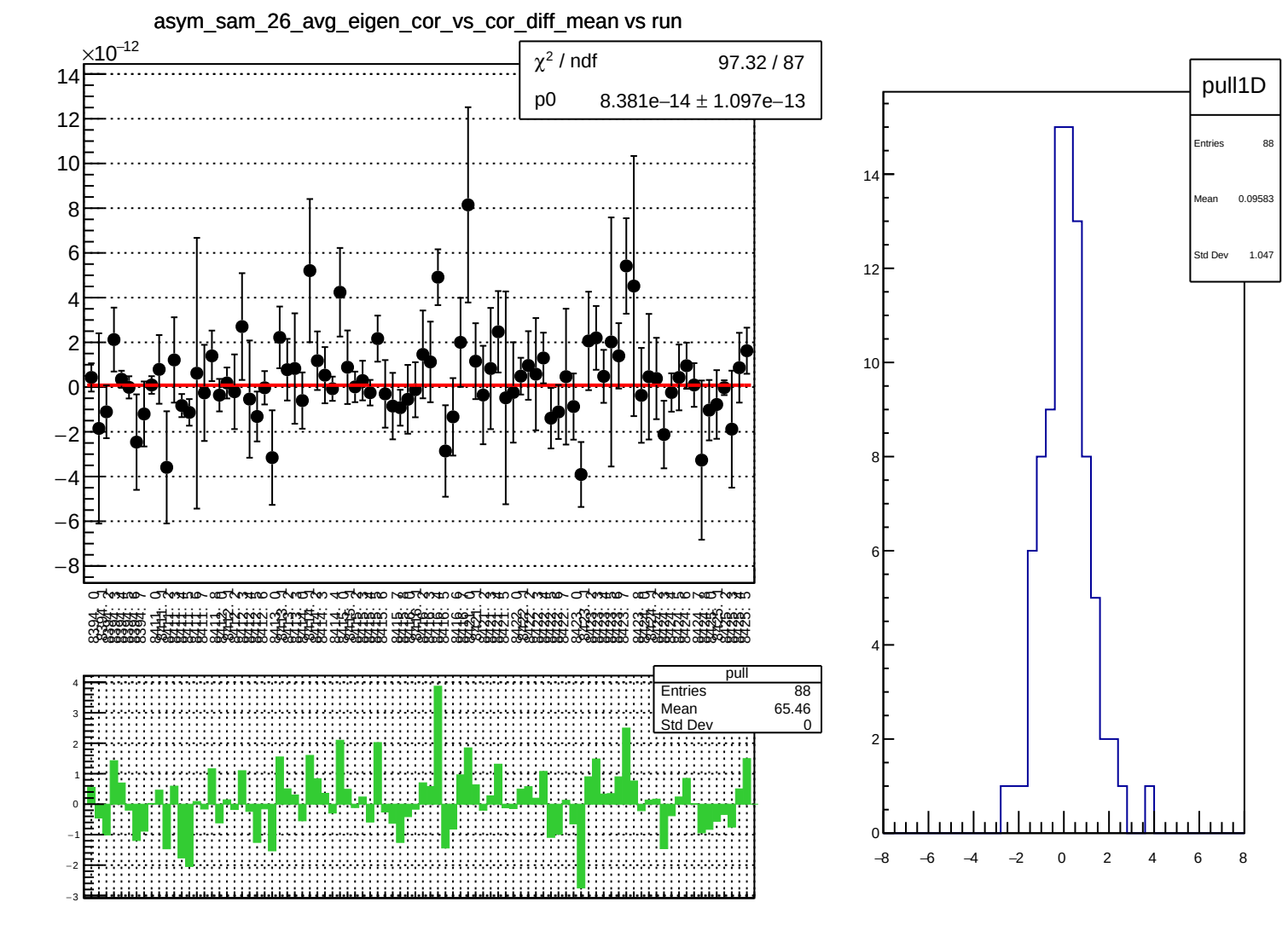

pull1D
Entries 88
Mean 0.007242
Std Dev 0.893

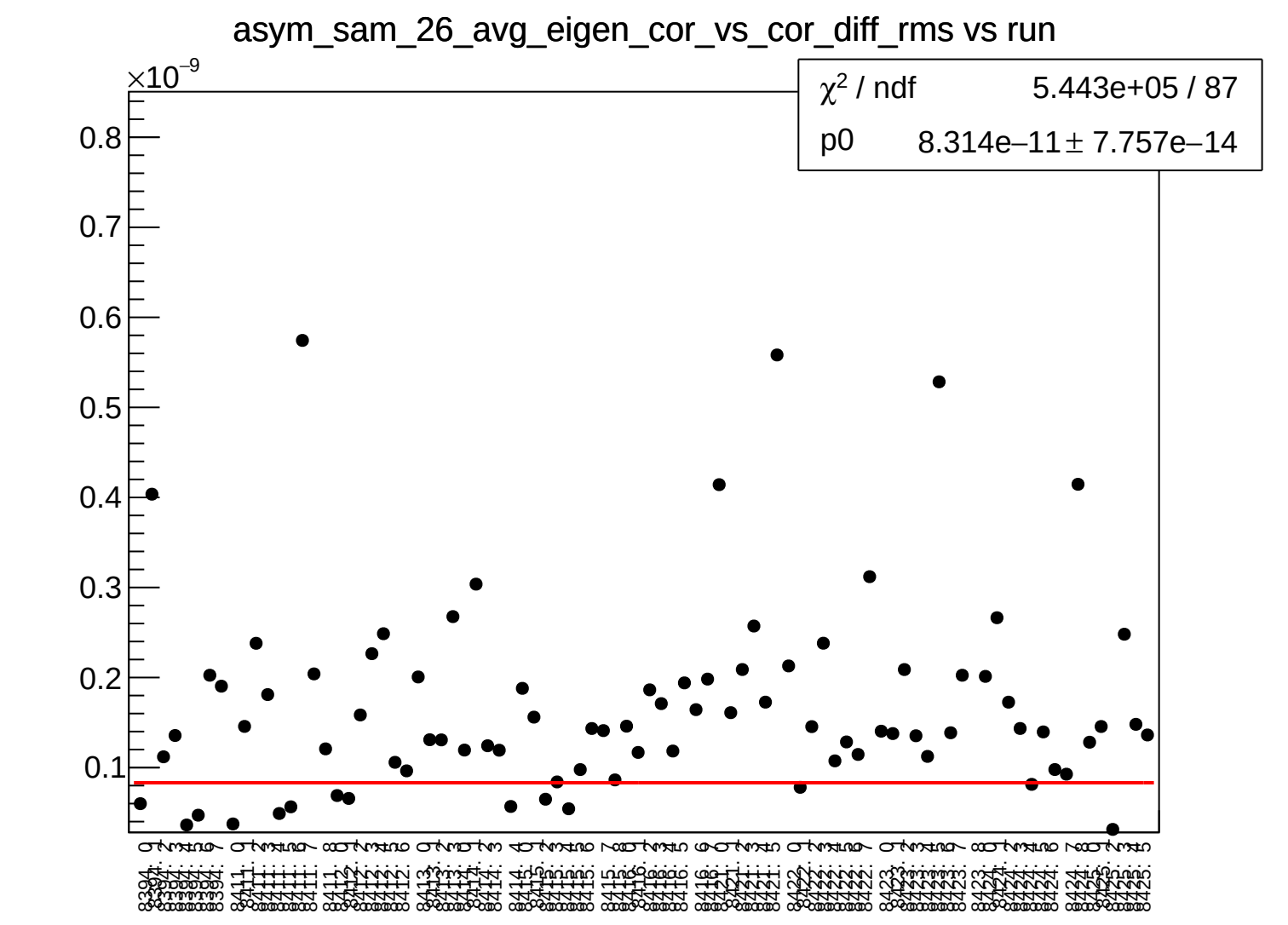

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.354e+05 / 87
p0 38.23 ± 0.03063
140
120
100
80
60
40
20

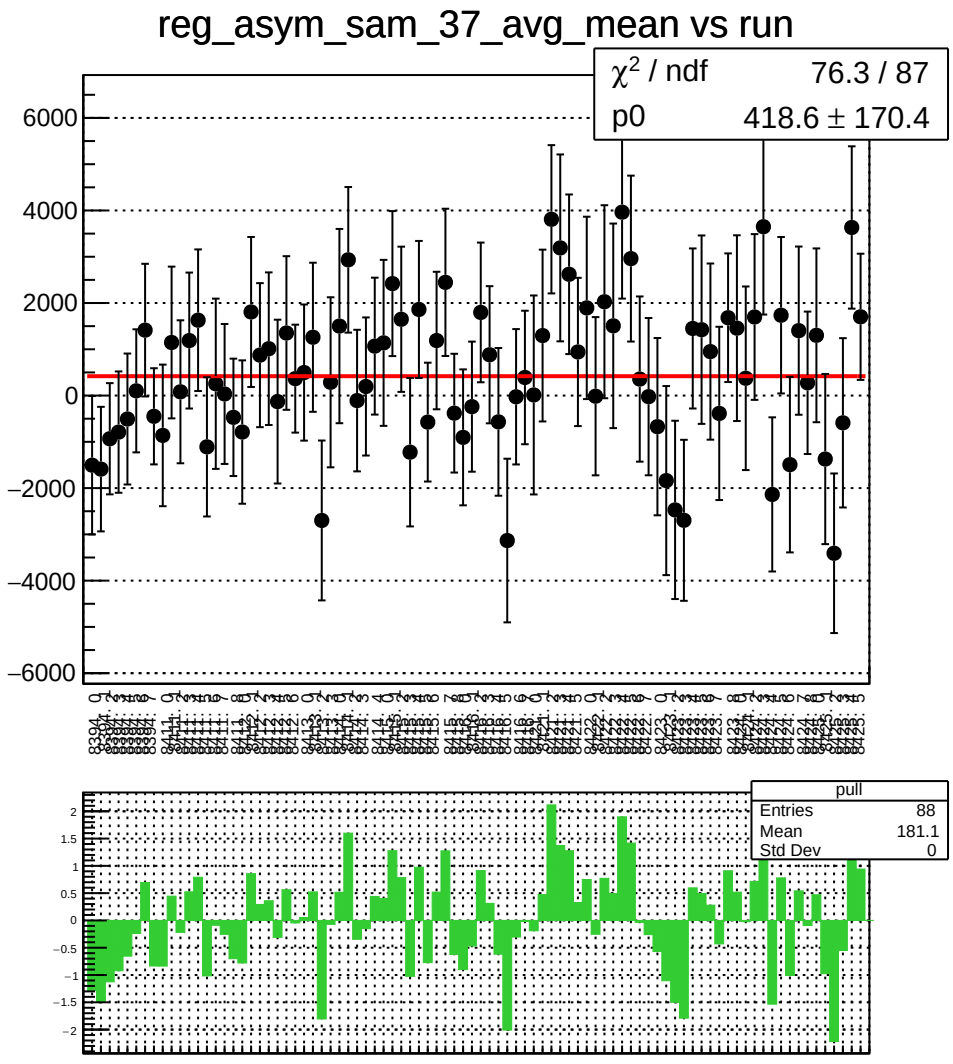

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.18 / 87
p0 0.02032 ± 0.04332
pull
Entries 88
Mean −621.8
Std Dev 0

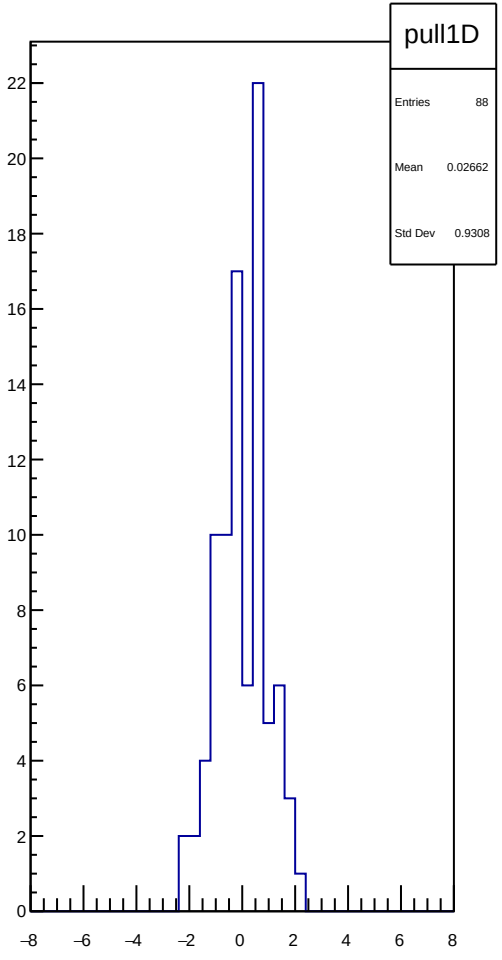

pull1D
Entries 88
Mean 0.007242
Std Dev 0.893

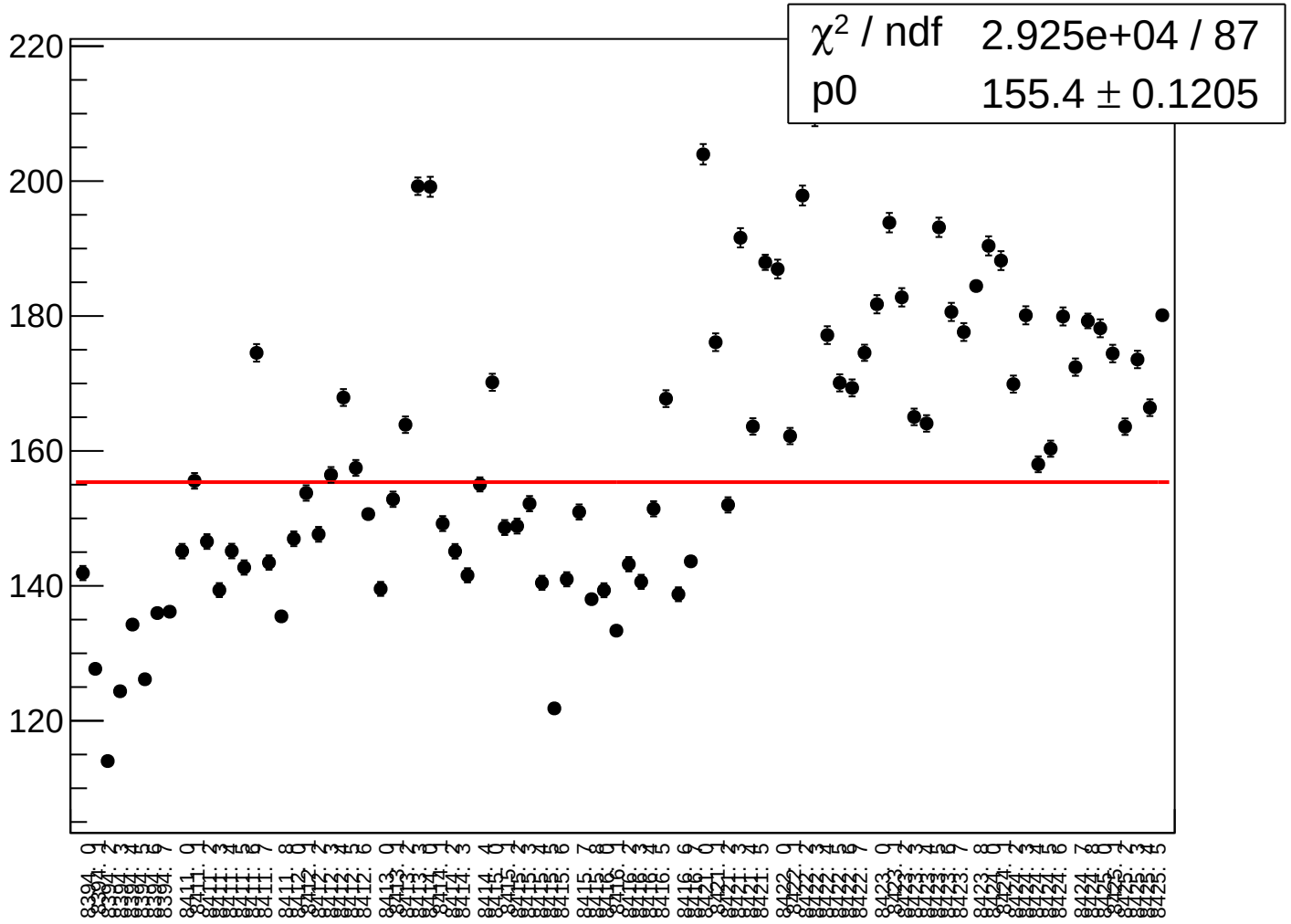

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.354e+05 / 87
p0 38.23 ± 0.03063
140
120
100
80
60
40
20

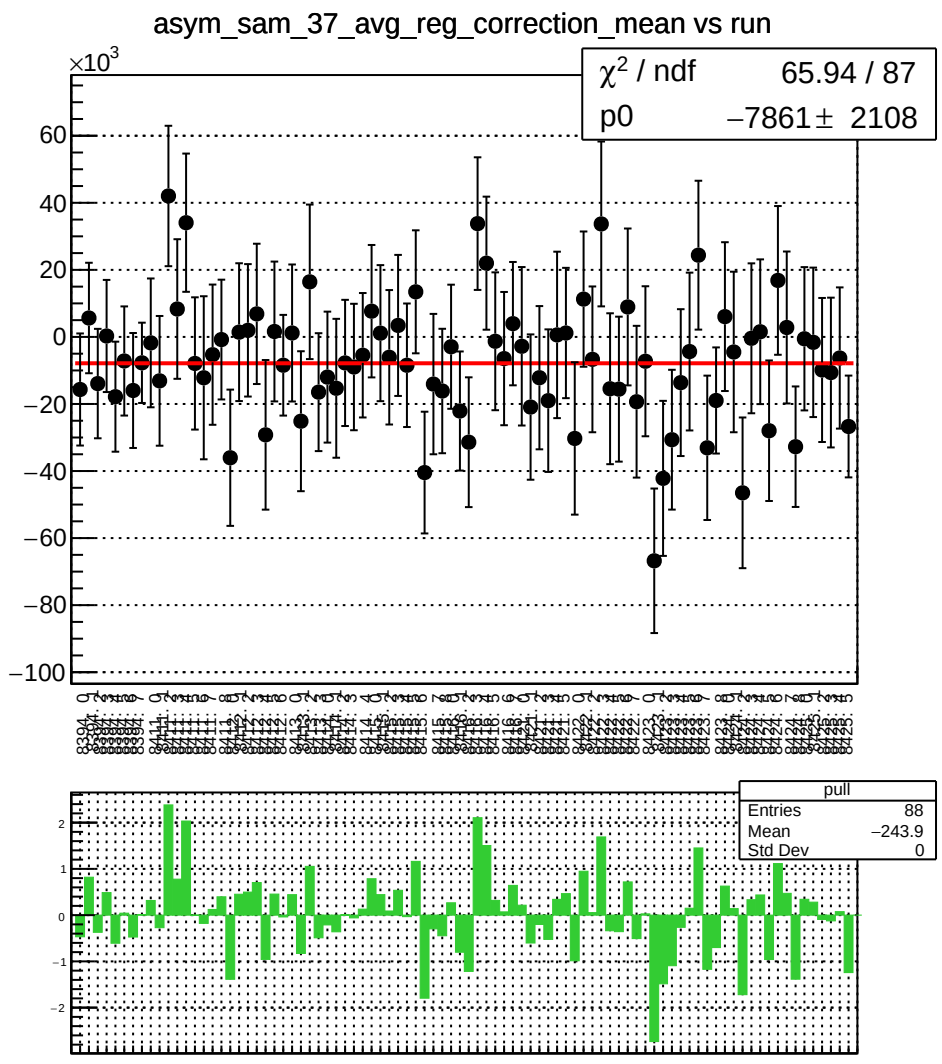

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.32 / 87
p0 8.381e−14 ± 1.097e−13
pull
Entries 88
Mean 65.46
Std Dev 0
pull1D
Entries 88
Mean 0.09583
Std Dev 1.047

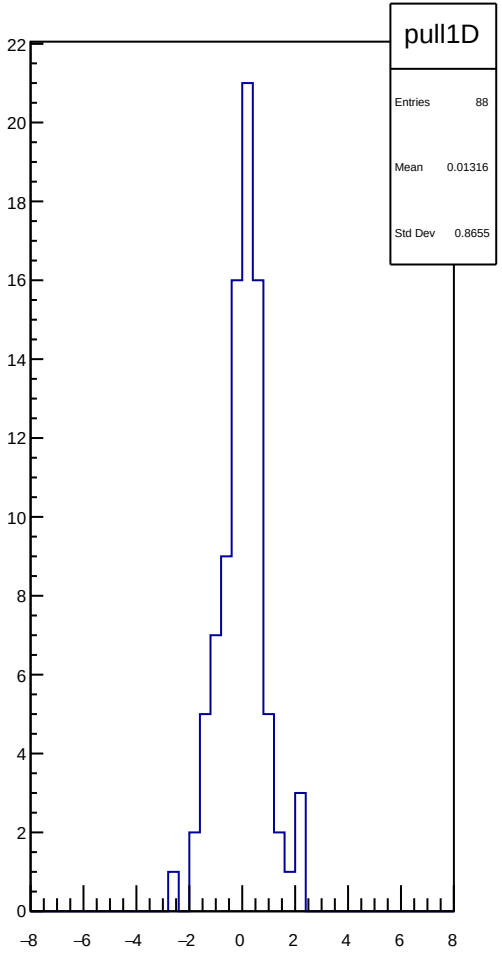

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.443e+05 / 87
p0 8.314e−11 ± 7.757e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

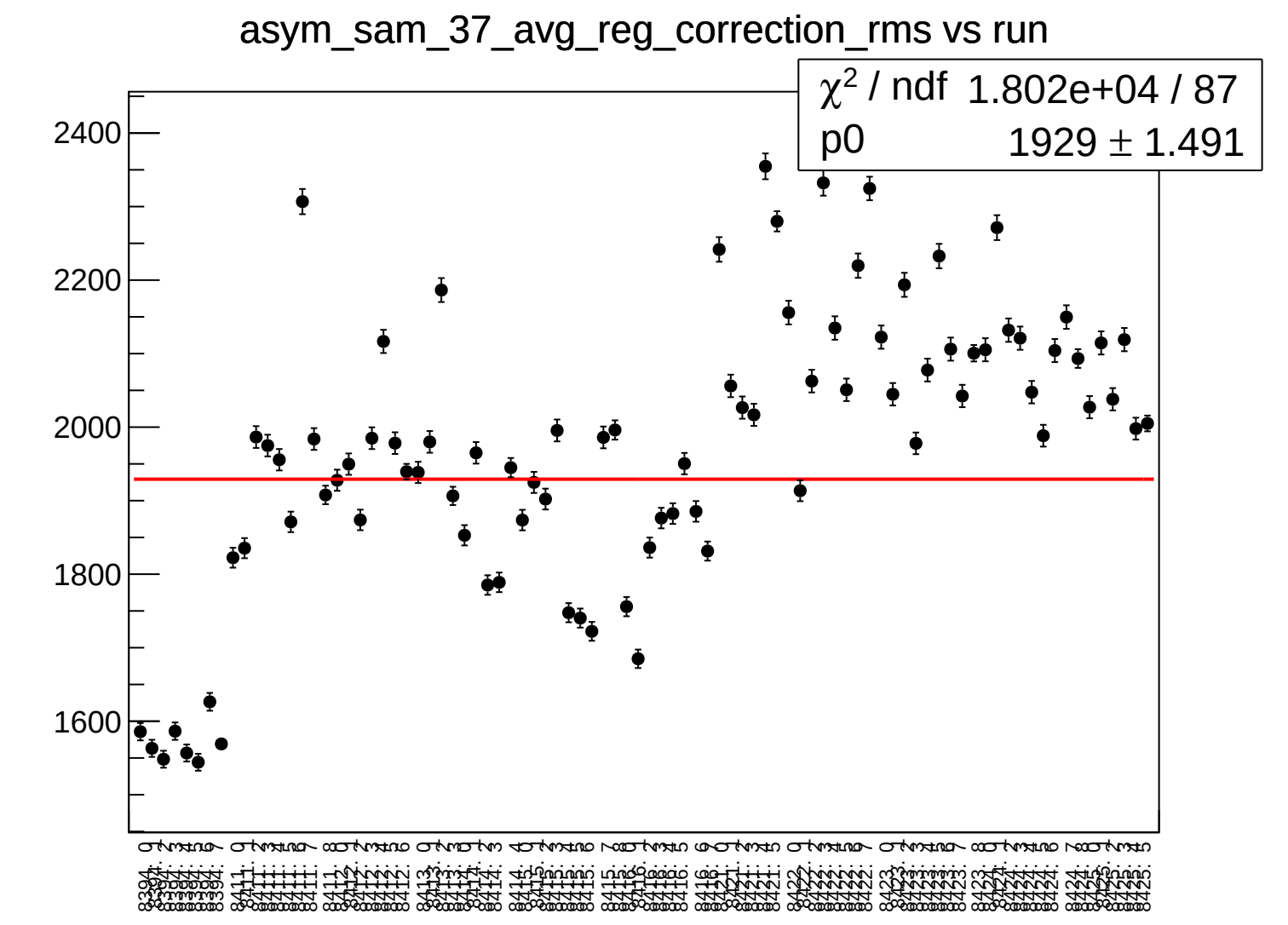

reg_asym_sam_37_avg_mean vs run
χ² / ndf 76.3 / 87
p0 418.6 ± 170.4
pull
Entries 88
Mean 181.1
Std Dev 0

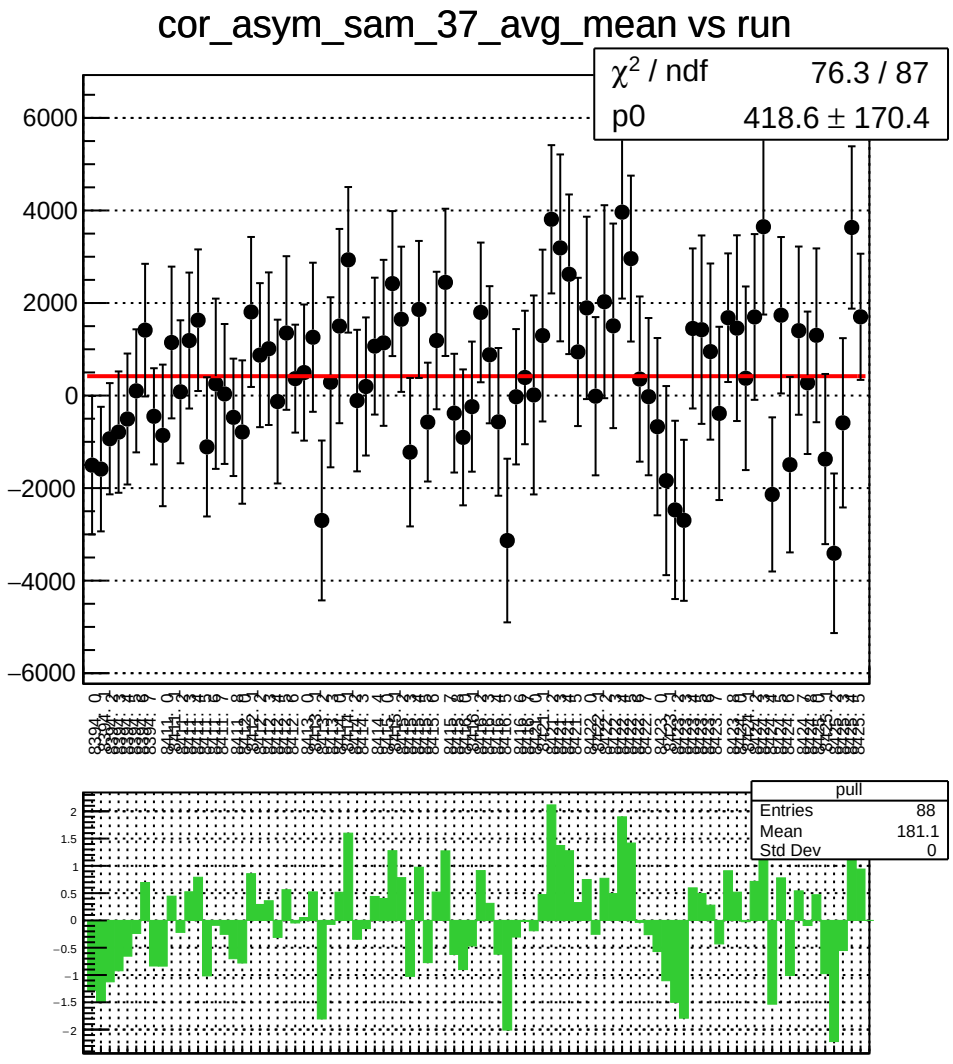

pull1D
Entries 88
Mean 0.02662
Std Dev 0.9308

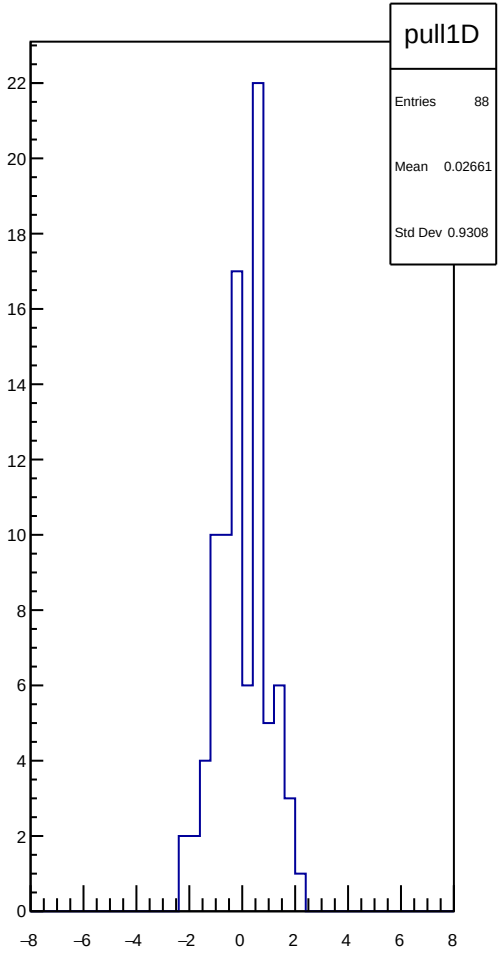

reg_asym_sam_37_avg_rms vs run
χ² / ndf 2.925e+04 / 87
p0 155.4 ± 0.1205
220
200
180
160
140
120

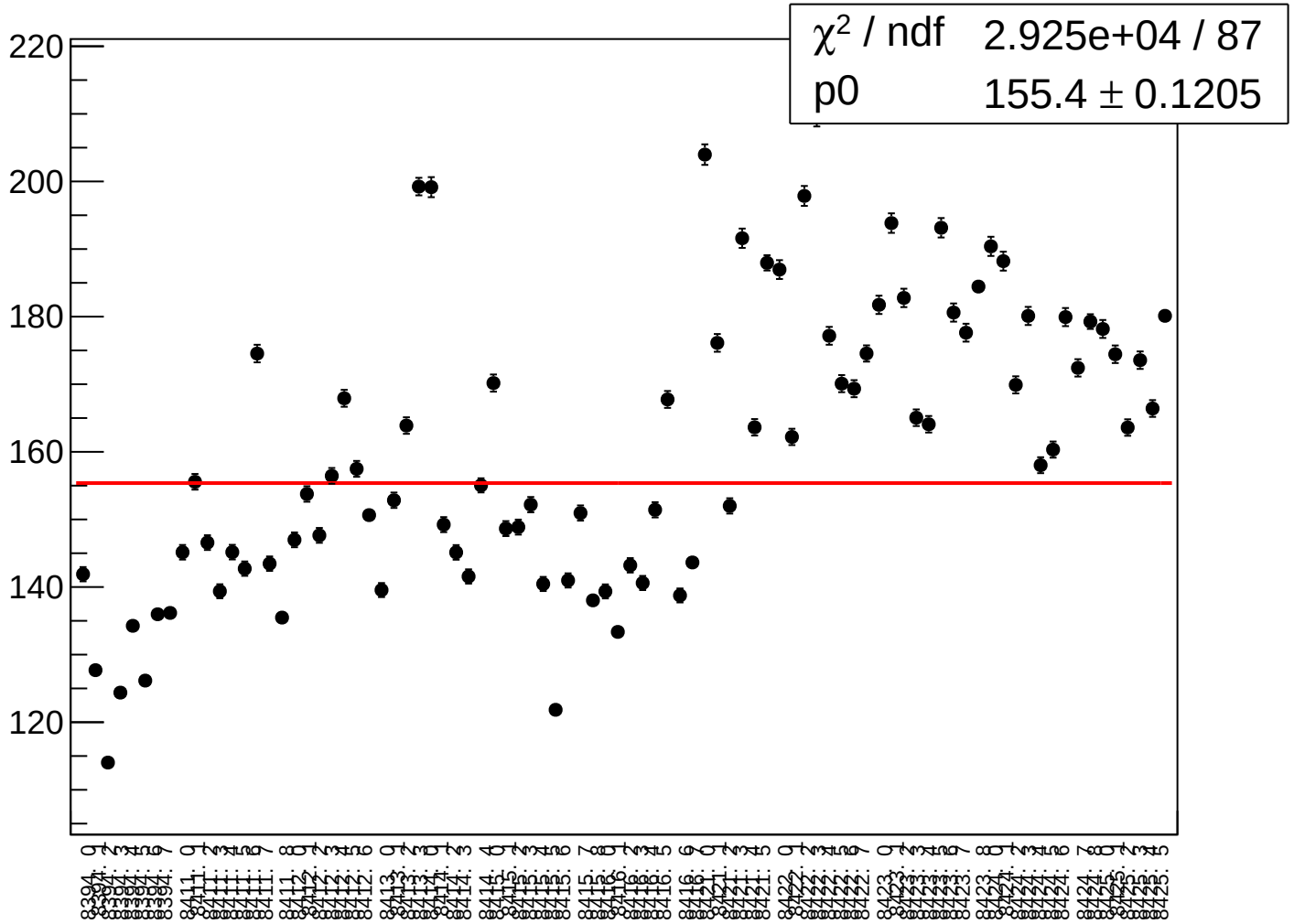

asym_sam_37_avg_reg_correction_mean vs run
×10^3
χ² / ndf 65.94 / 87
p0 −7861 ± 2108
pull
Entries 88
Mean −243.9
Std Dev 0

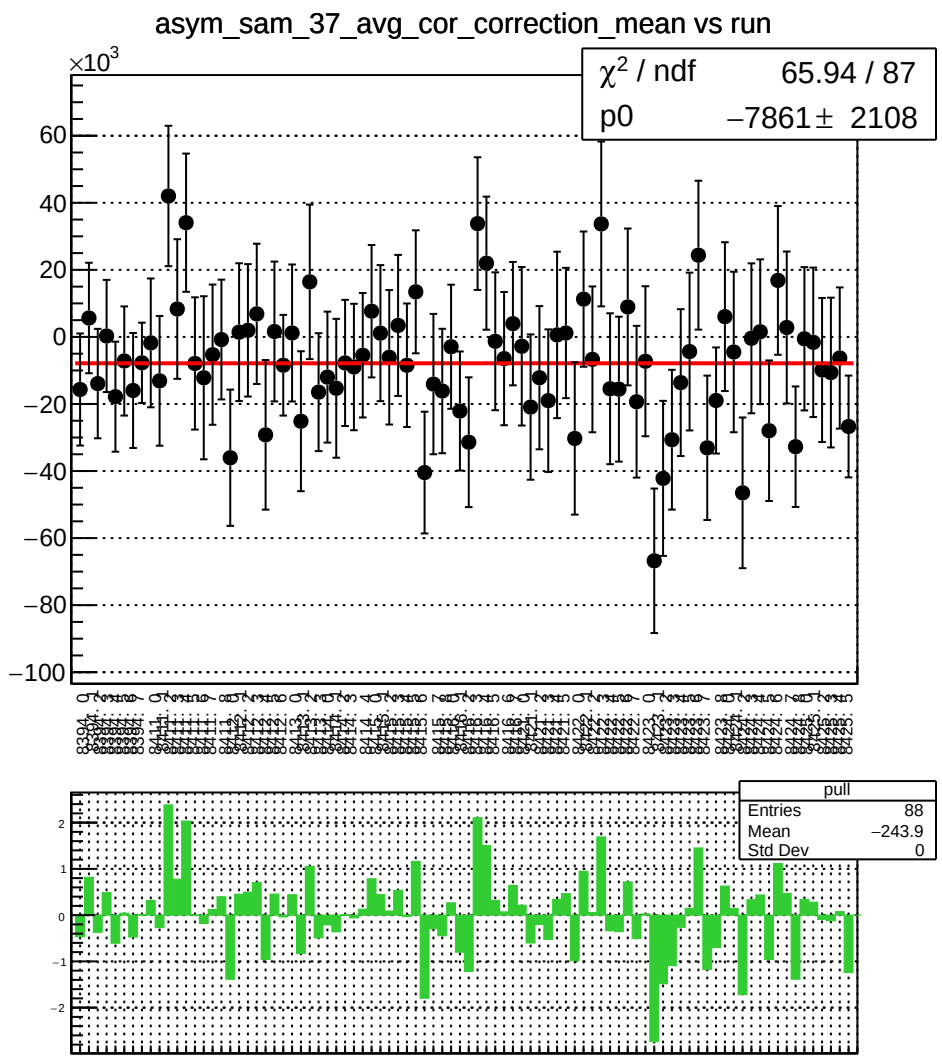

pull1D
Entries 88
Mean 0.01316
Std Dev 0.8655

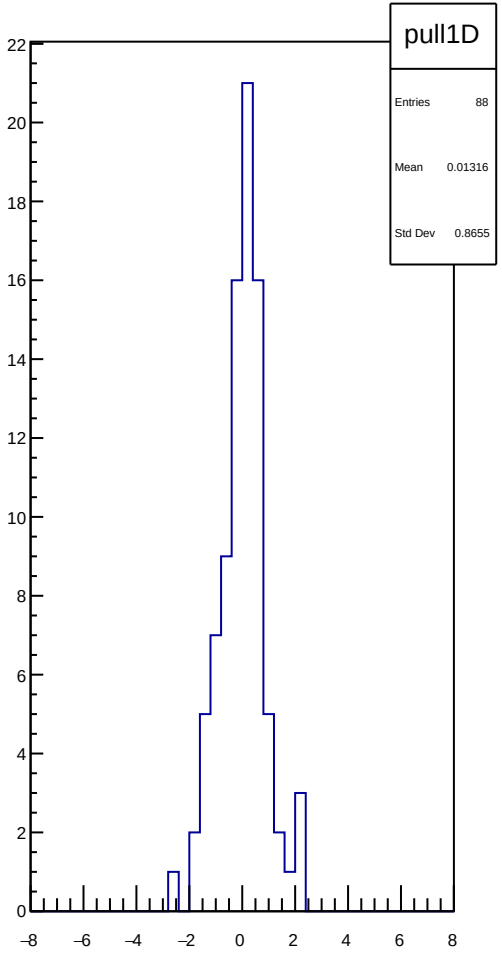

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 1.802e+04 / 87
p0 1929 ± 1.491
2400
2200
2000
1800
1600

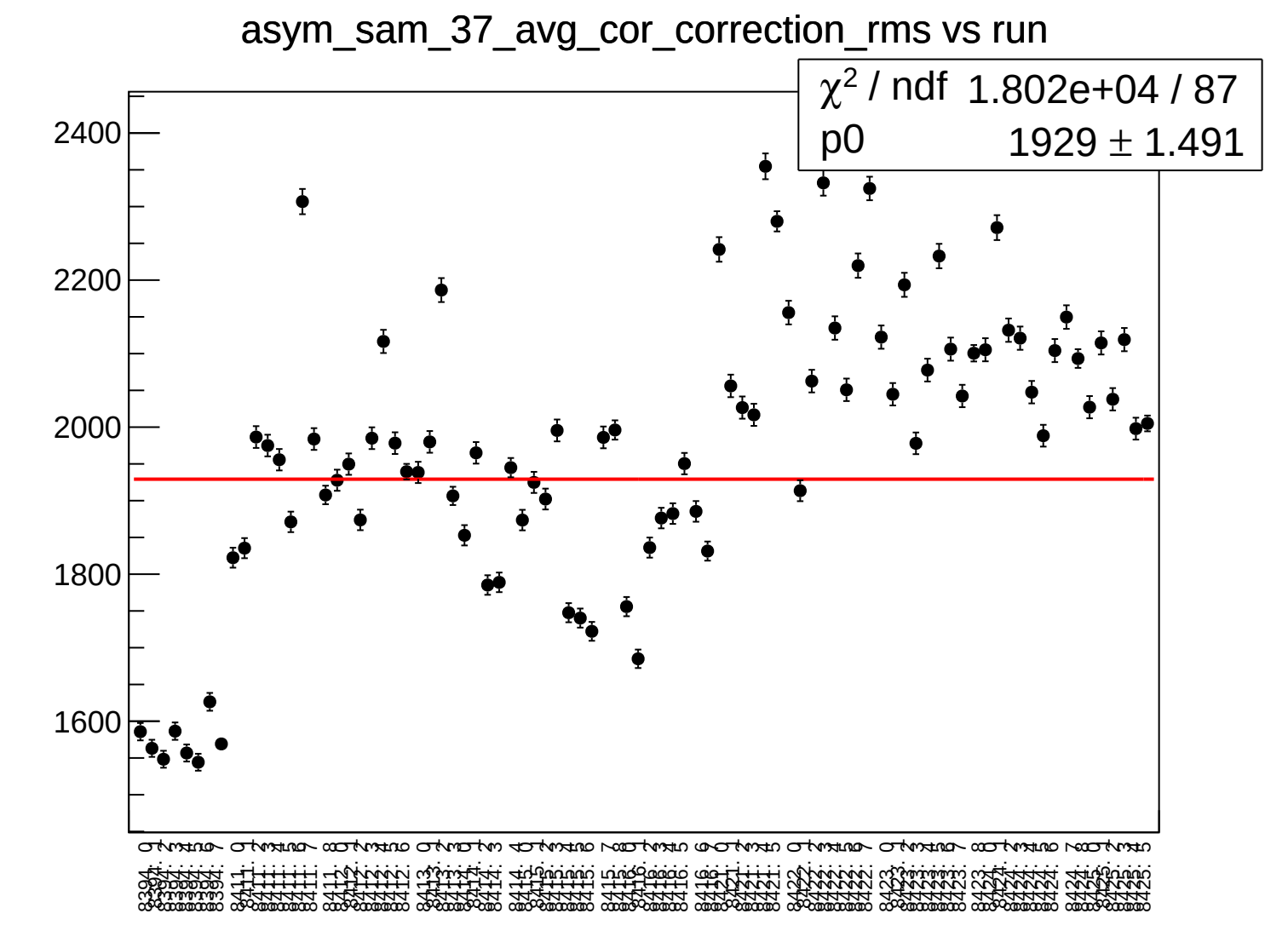

cor_asym_sam_37_avg_mean vs run
χ² / ndf 76.3 / 87
p0 418.6 ± 170.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 181.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

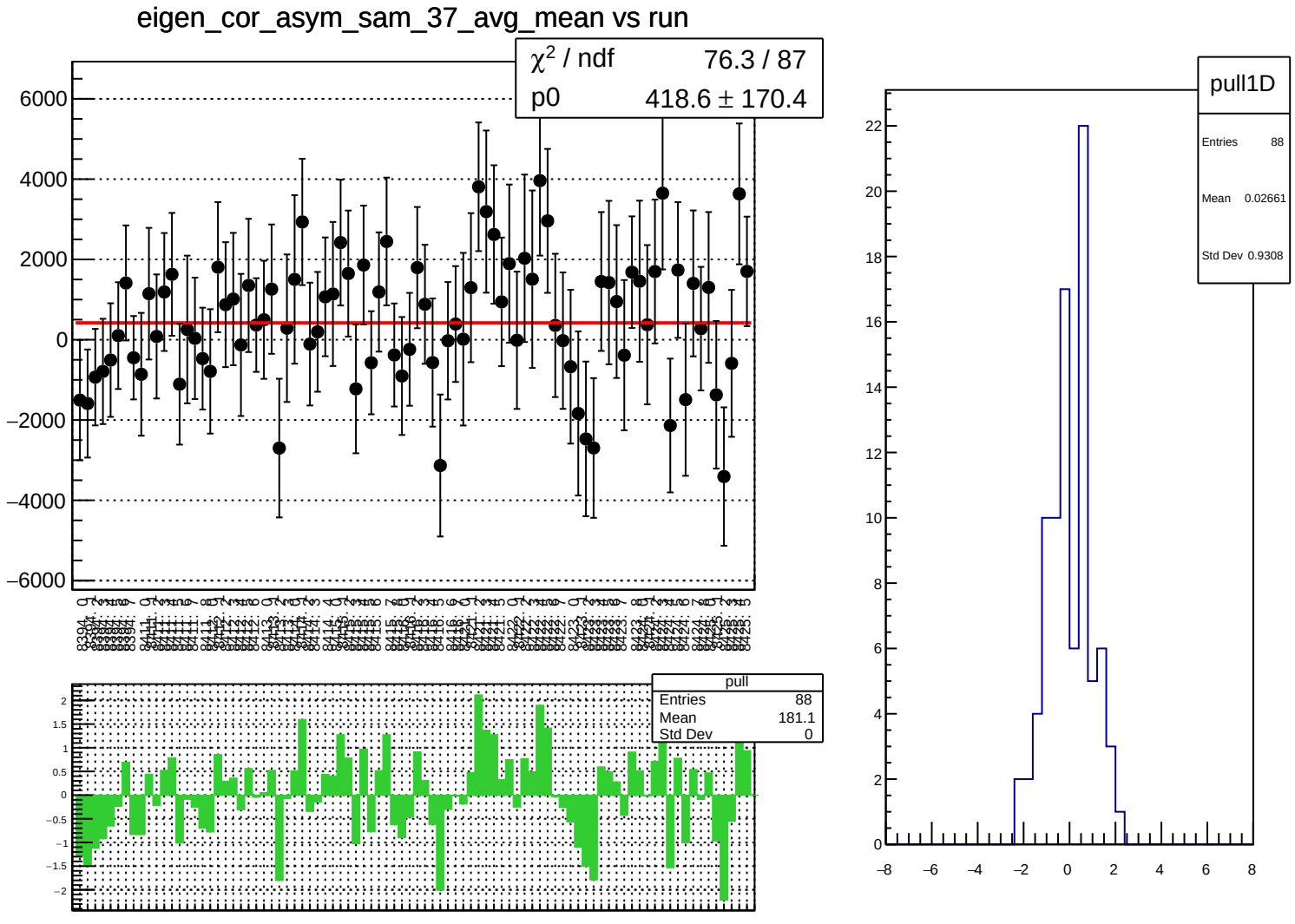

pull1D
Entries 88
Mean 0.02661
Std Dev 0.9308
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

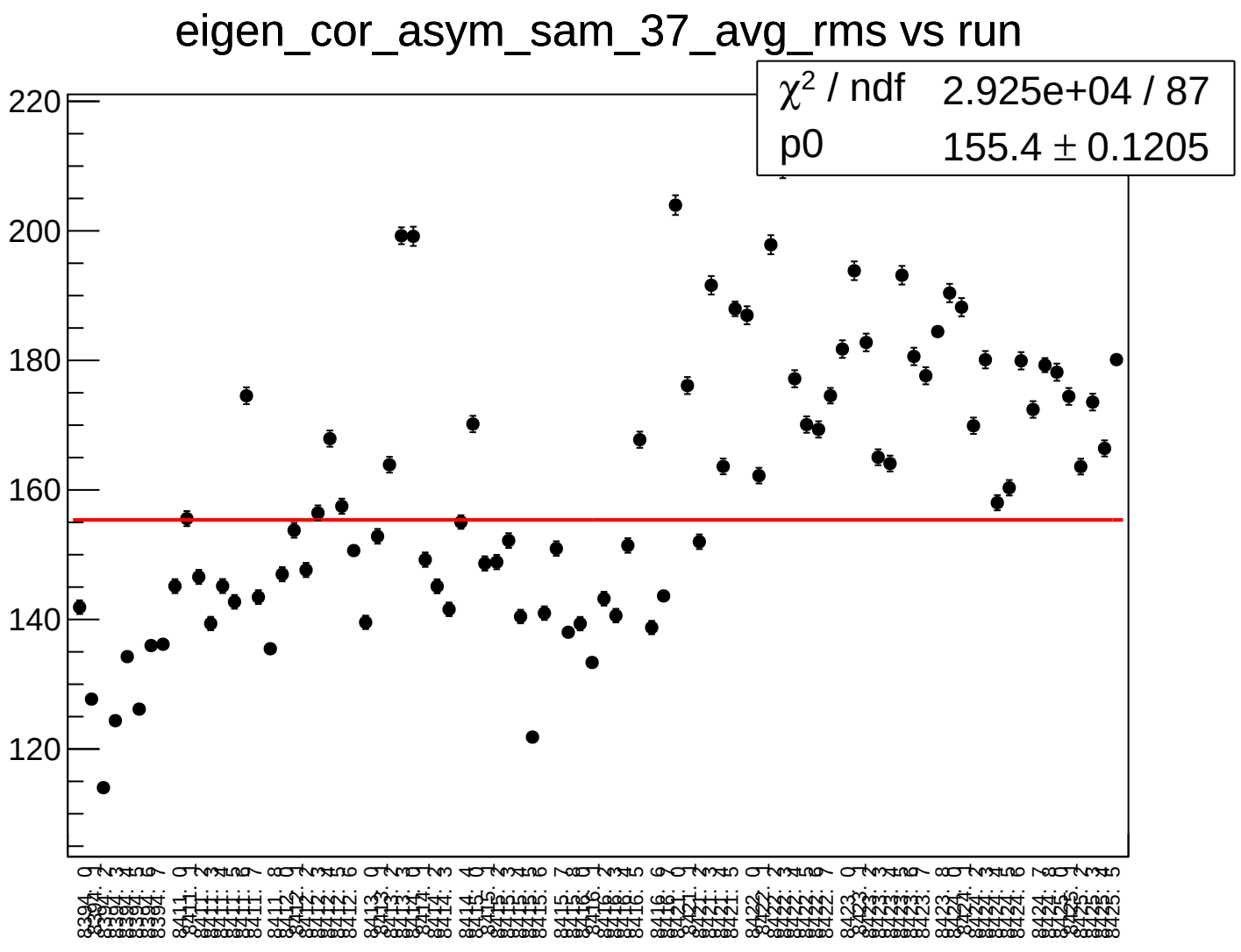

cor_asym_sam_37_avg_rms vs run
χ^2 / ndf 2.925e+04 / 87
p0 155.4 ± 0.1205
220
200
180
160
140
120

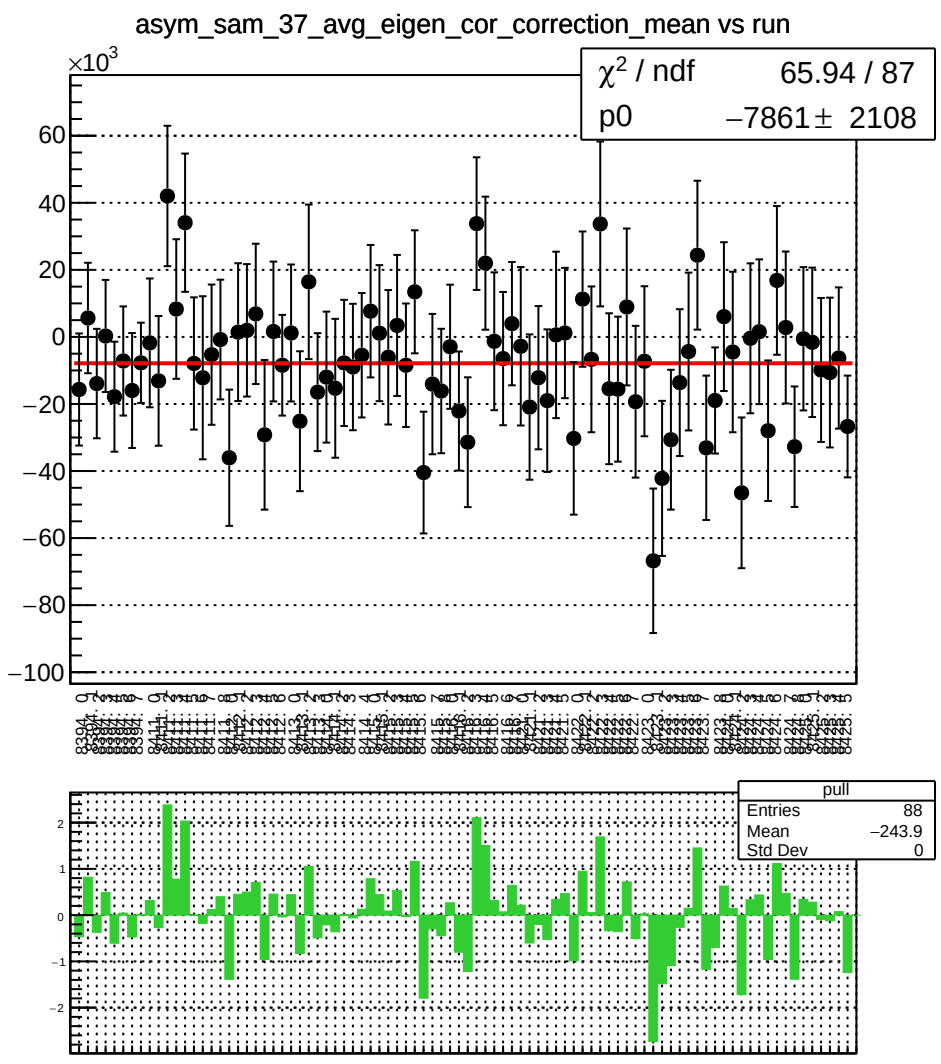

asym_sam_37_avg_cor_correction_mean vs run
×10^3
χ² / ndf 65.94 / 87
p0 −7861 ± 2108
pull
Entries 88
Mean −243.9
Std Dev 0

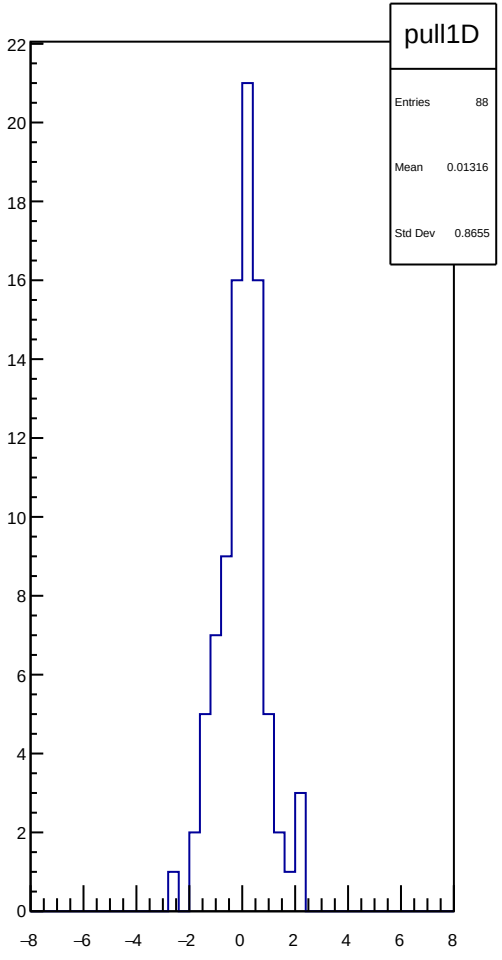

pull1D
Entries 88
Mean 0.01316
Std Dev 0.8655

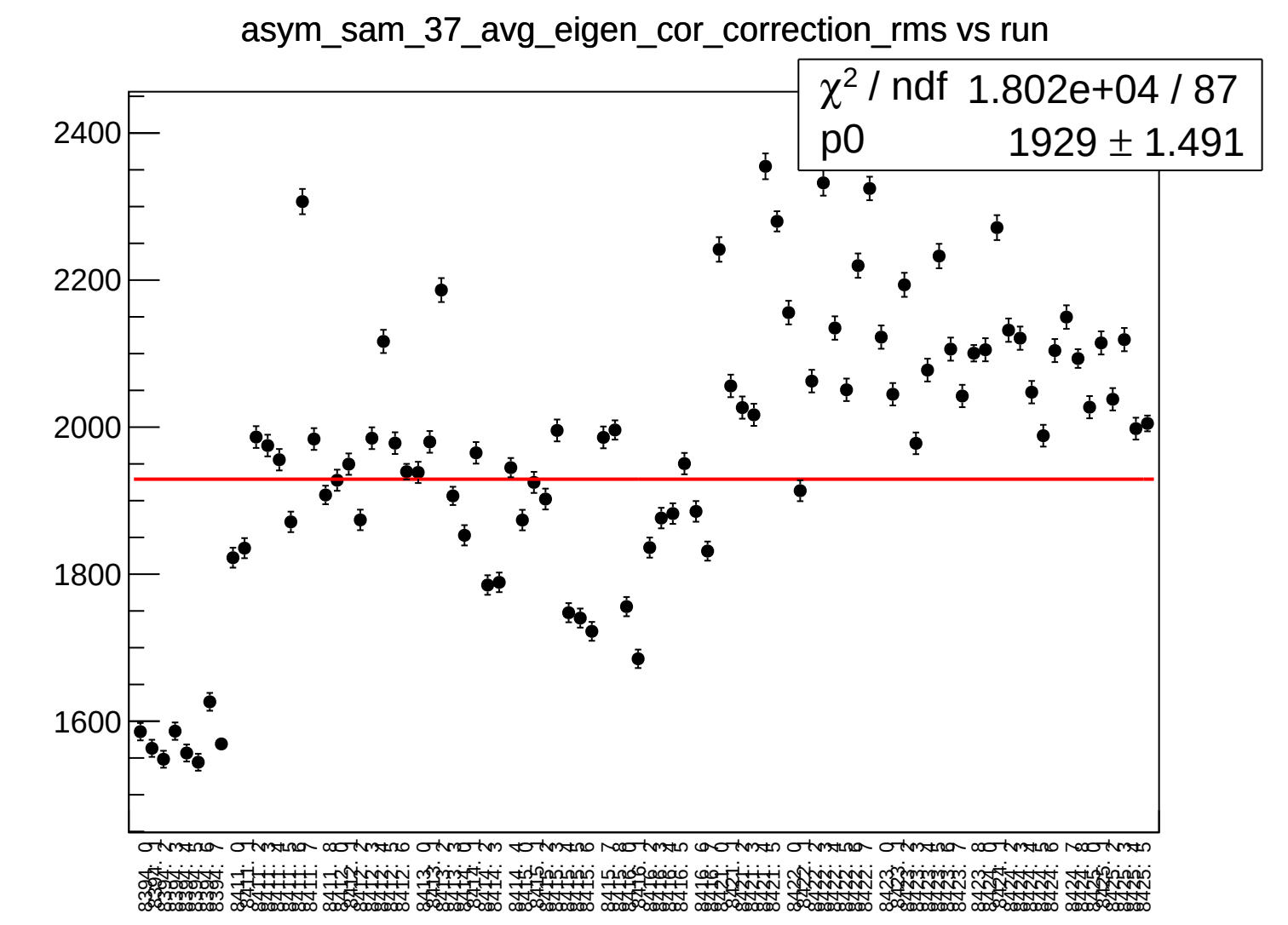

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 1.802e+04 / 87
p0 1929 ± 1.491
2400
2200
2000
1800
1600

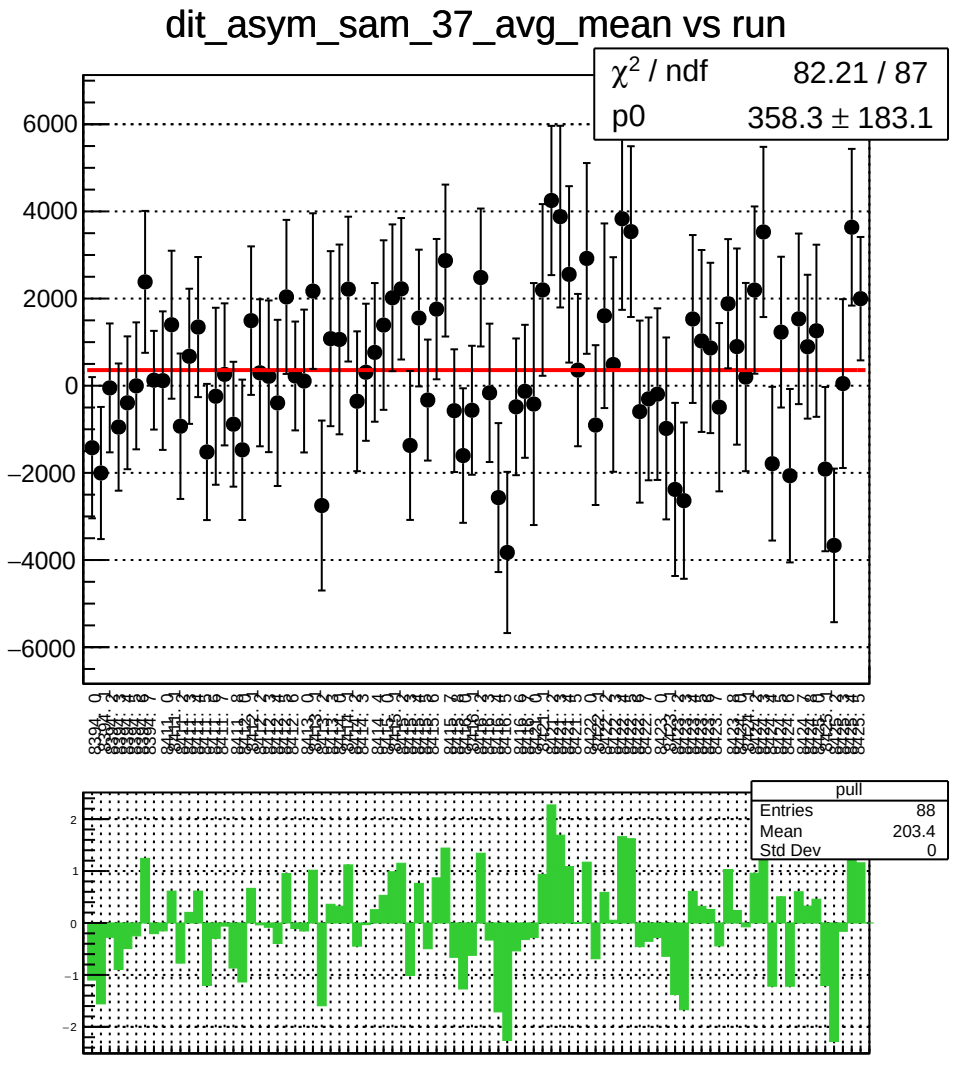

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 76.3 / 87
p0 418.6 ± 170.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 181.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean 0.02661
Std Dev 0.9308
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

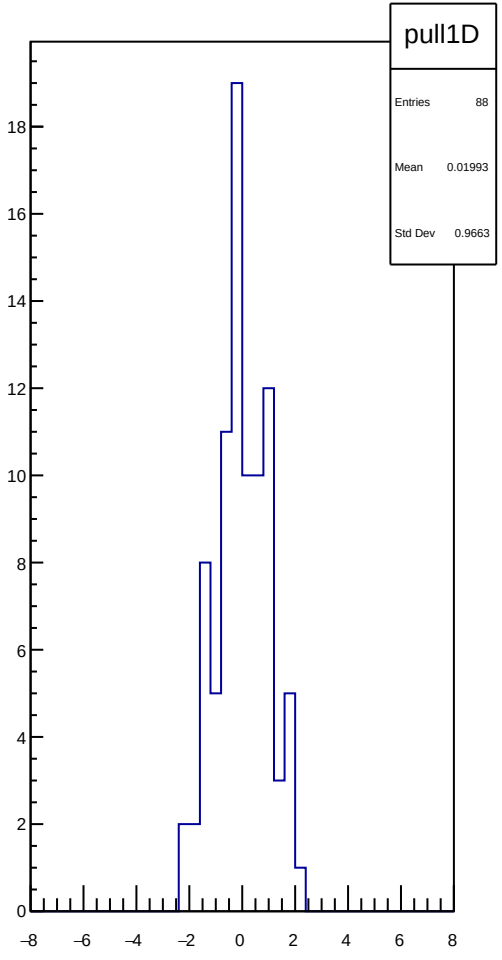

eigen_cor_asym_sam_37_avg_rms vs run
χ^2 / ndf 2.925e+04 / 87
p0 155.4 ± 0.1205
220
200
180
160
140
120

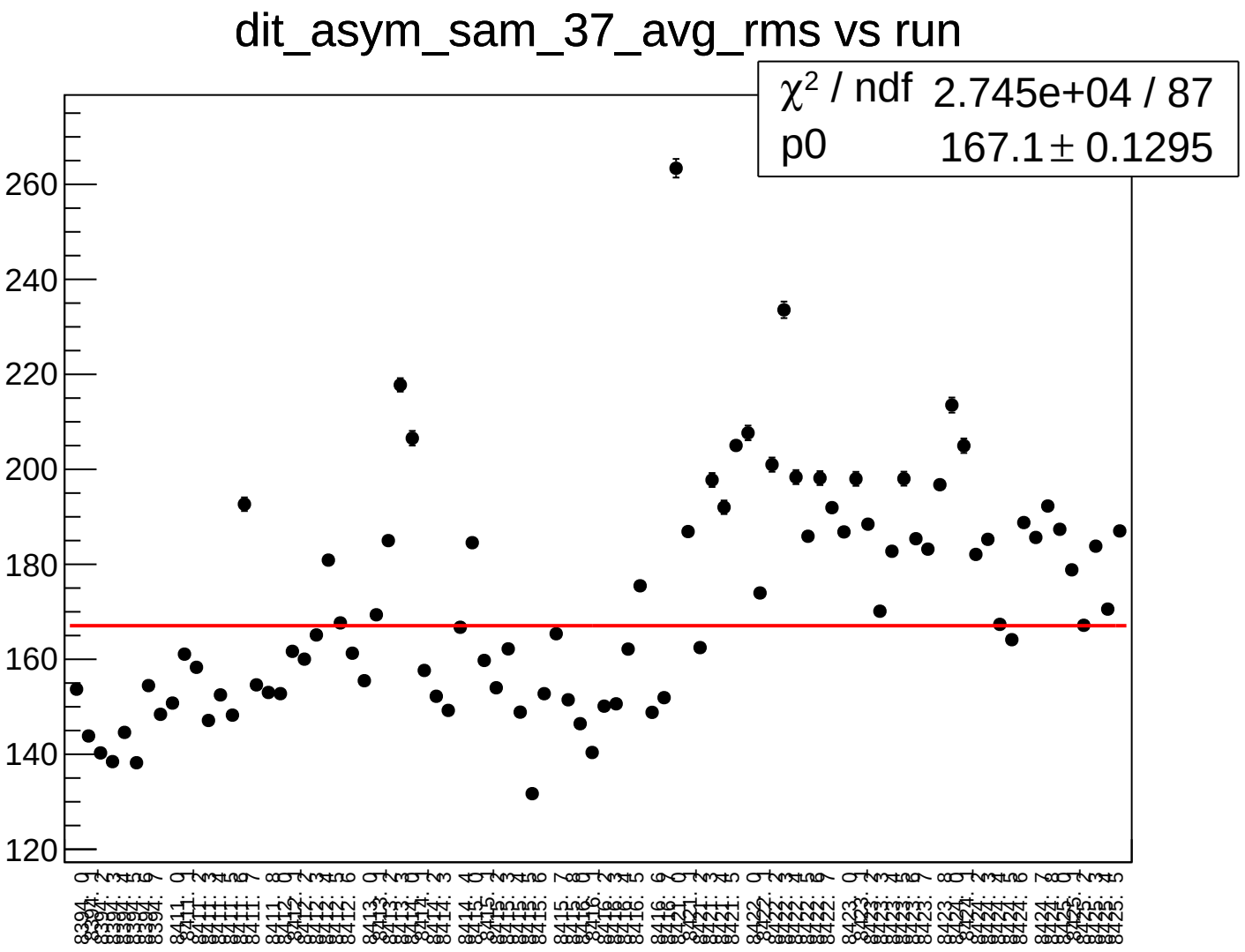

asym_sam_37_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 65.94 / 87
p0 −7861 ± 2108
pull
Entries 88
Mean −243.9
Std Dev 0

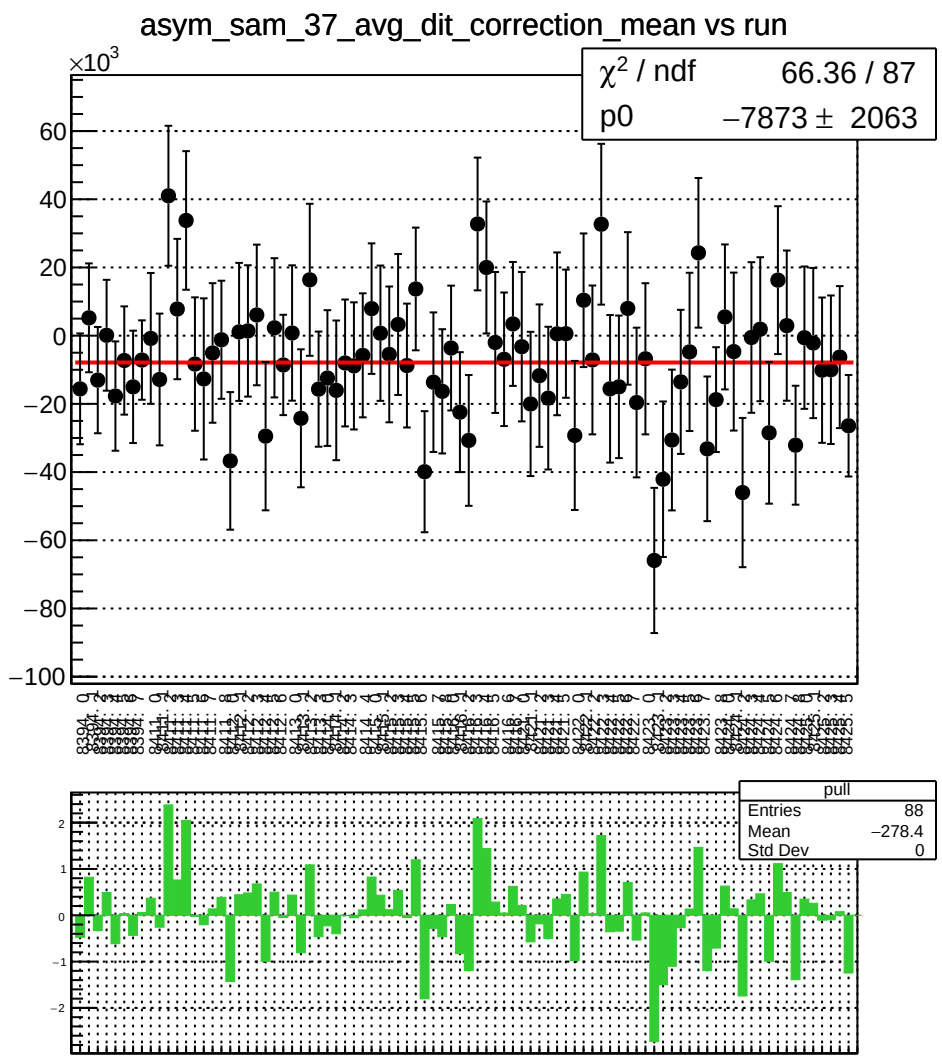

pull1D
Entries 88
Mean 0.01316
Std Dev 0.8655

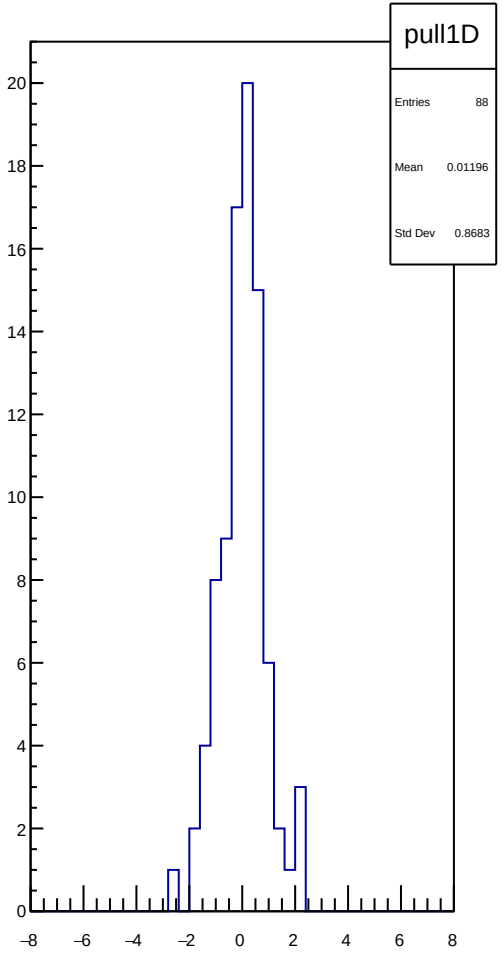

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.802e+04 / 87
p0 1929 ± 1.491
2400
2200
2000
1800
1600

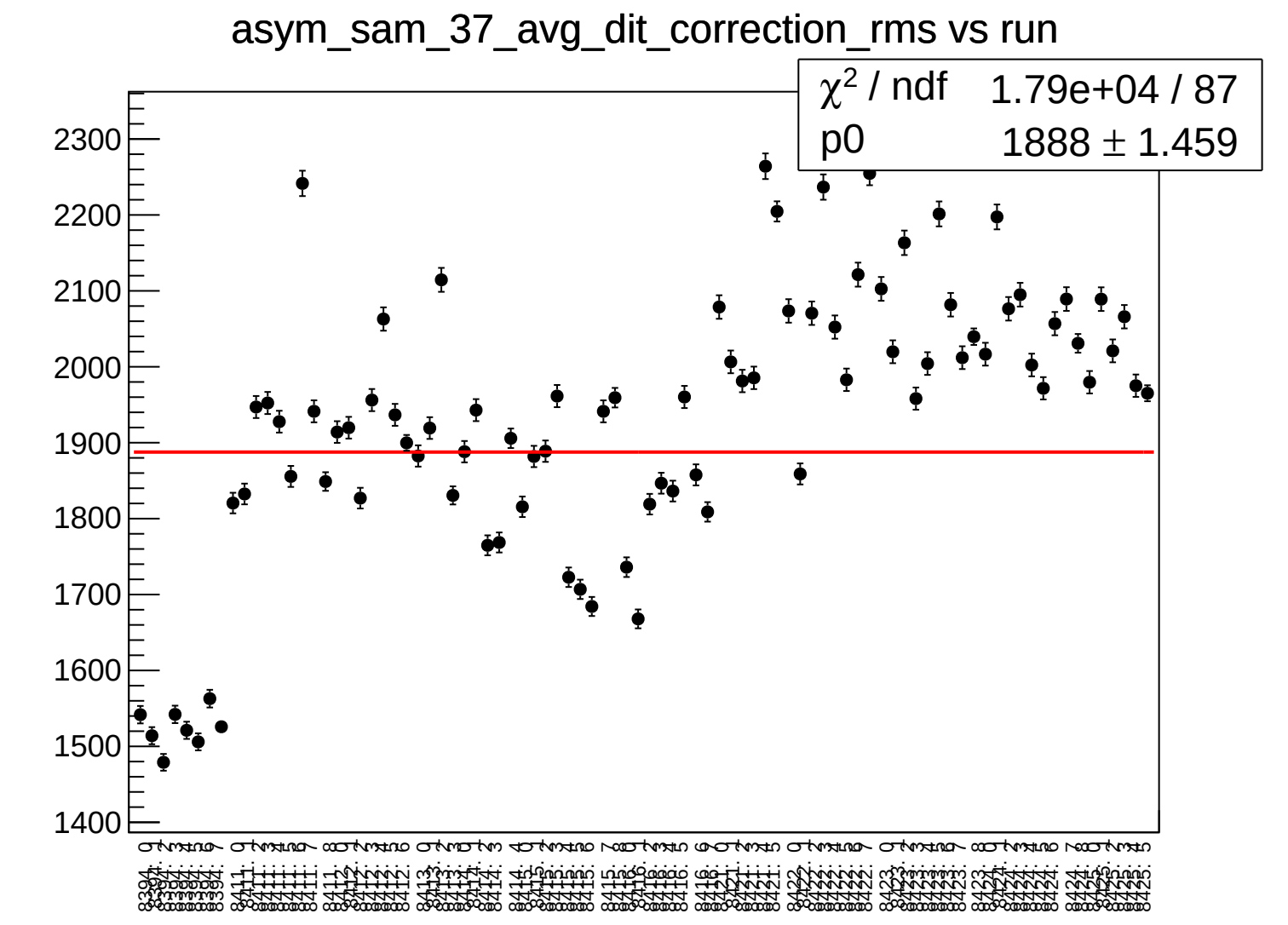

dit_asym_sam_37_avg_mean vs run
χ² / ndf 82.21 / 87
p0 358.3 ± 183.1
pull
Entries 88
Mean 203.4
Std Dev 0

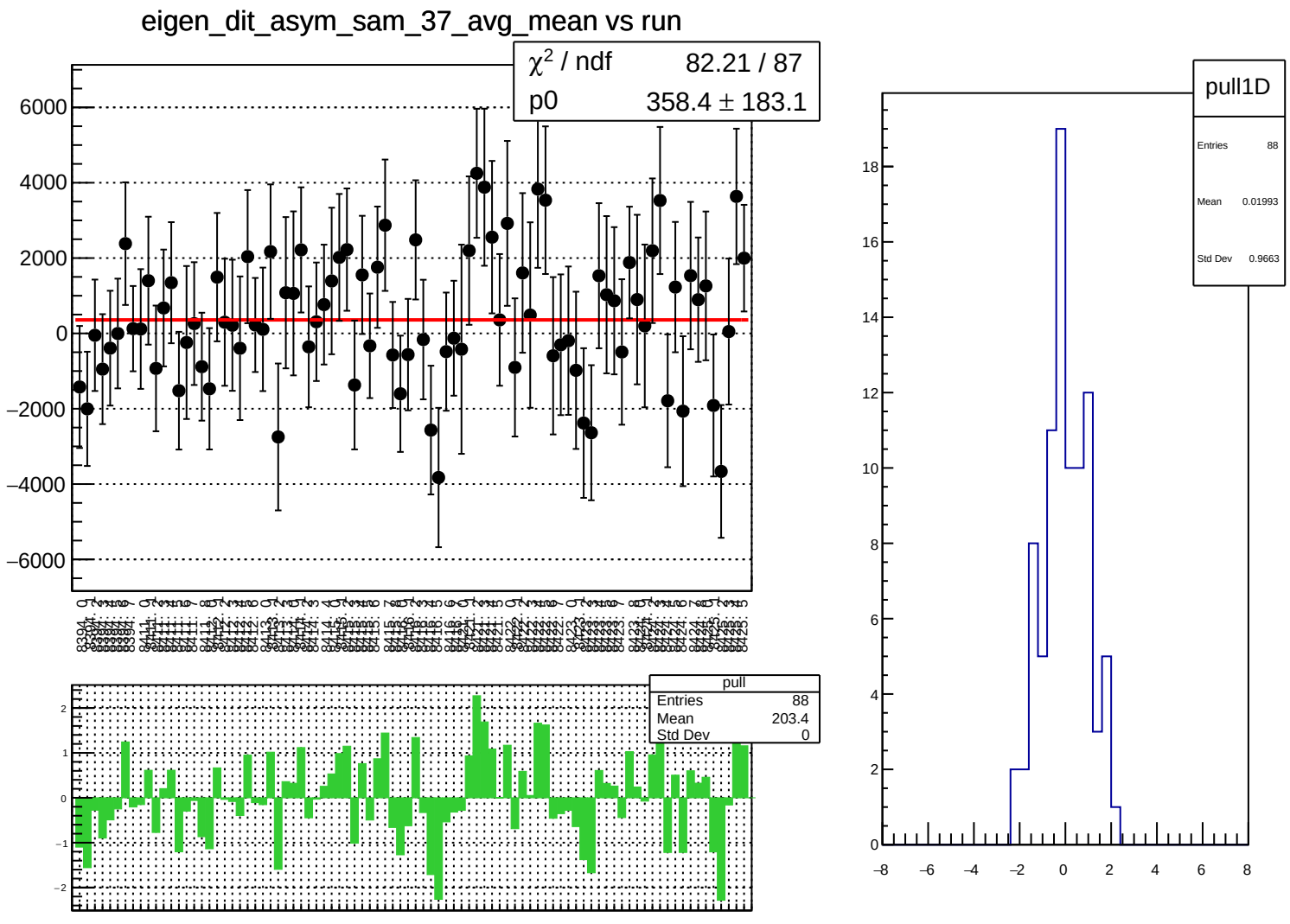

pull1D
Entries 88
Mean 0.01993
Std Dev 0.9663

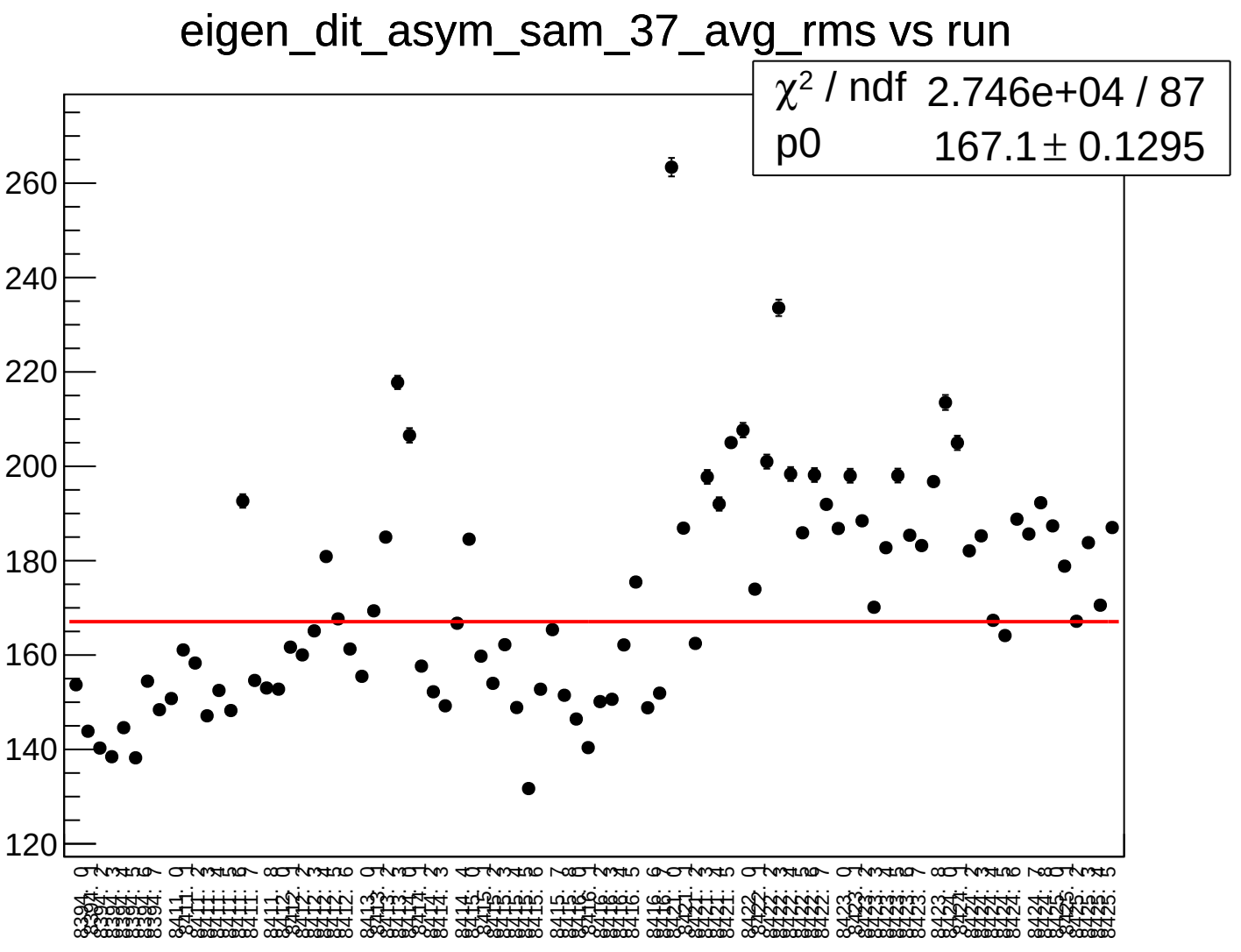

dit_asym_sam_37_avg_rms vs run
χ² / ndf 2.745e+04 / 87
p0 167.1 ± 0.1295
260
240
220
200
180
160
140
120

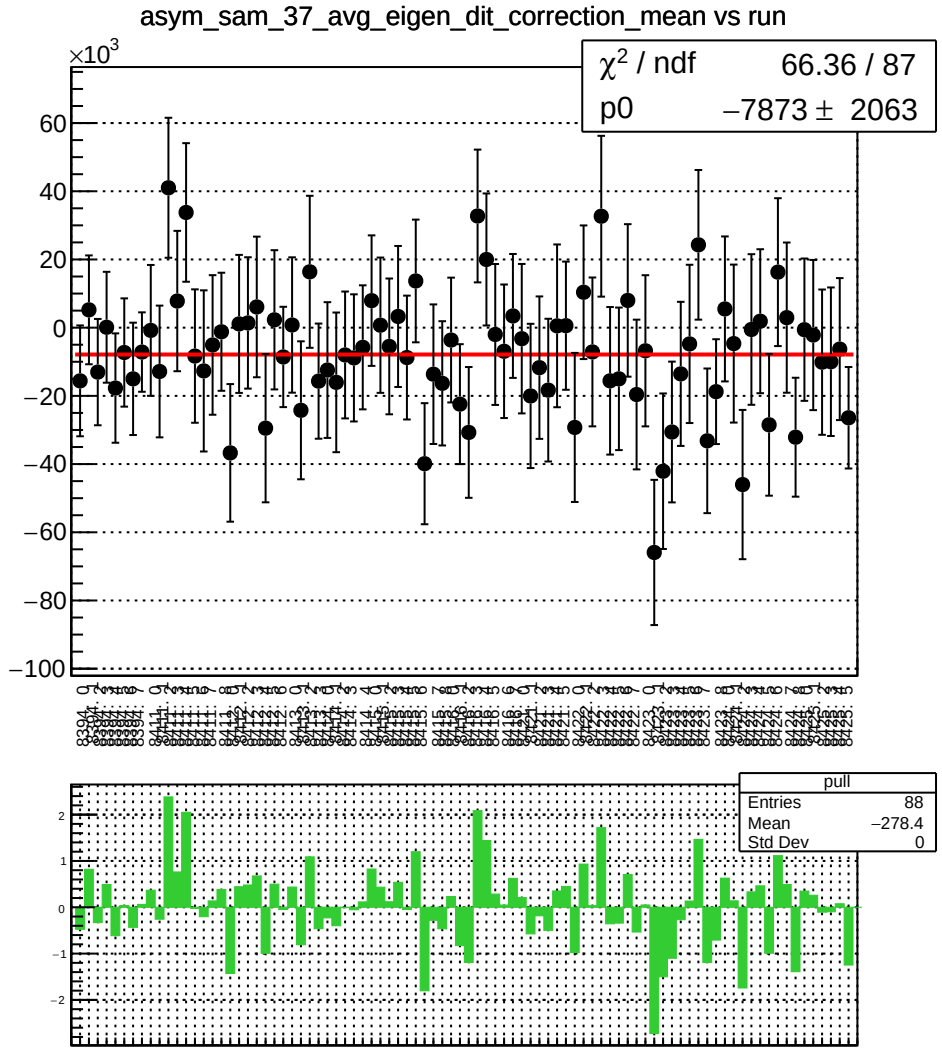

asym_sam_37_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 66.36 / 87
p0 −7873 ± 2063
pull
Entries 88
Mean −278.4
Std Dev 0

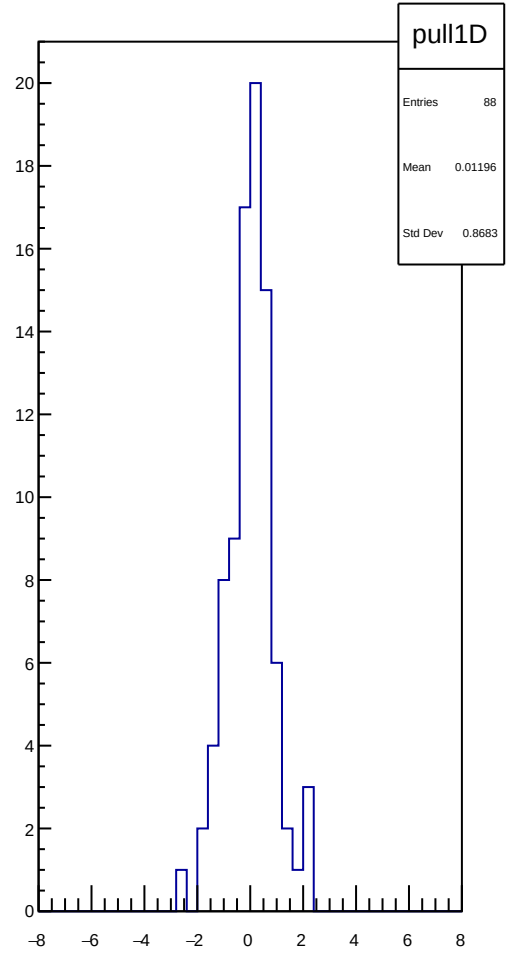

pull1D
Entries 88
Mean 0.01196
Std Dev 0.8683

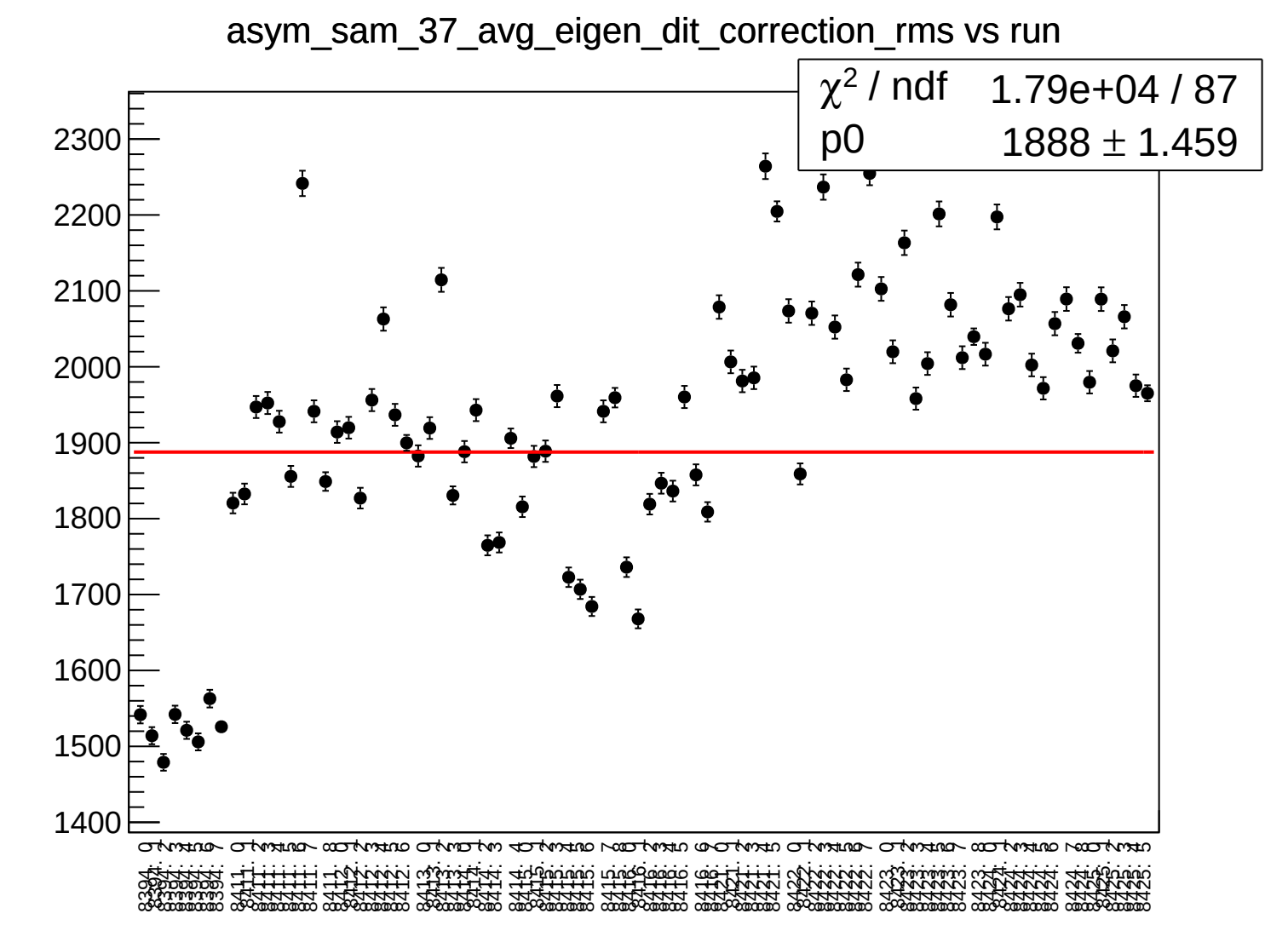

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 1.79e+04 / 87
p0 1888 ± 1.459
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400

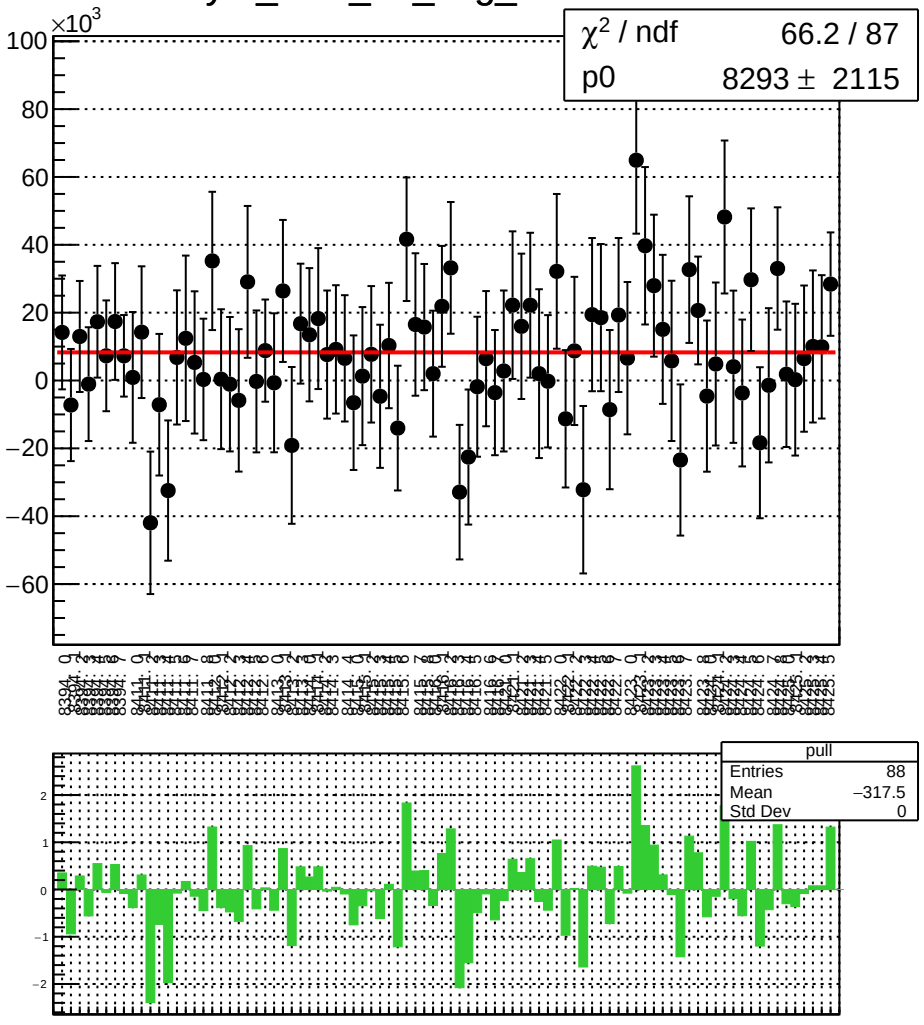

eigen_dit_asym_sam_37_avg_mean vs run
χ^2 / ndf 82.21 / 87
p0 358.4 ± 183.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 203.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01993
Std Dev 0.9663
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

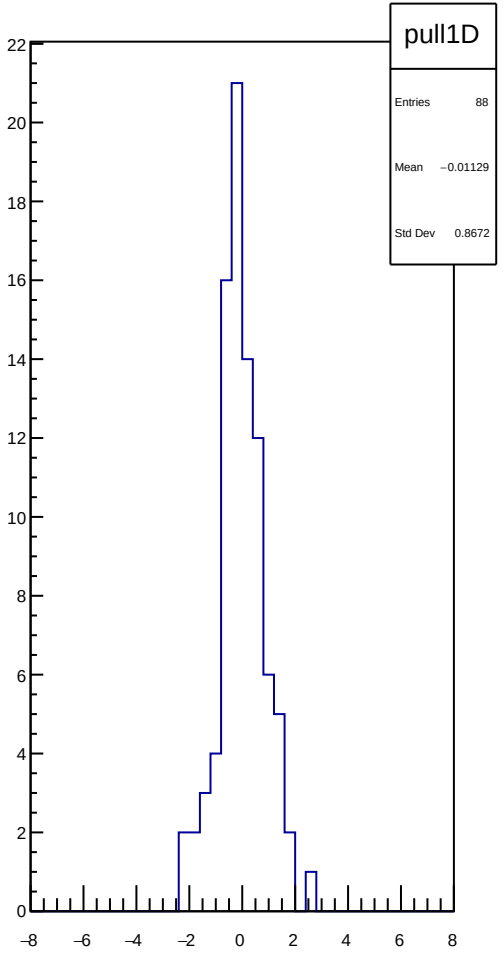

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 2.746e+04 / 87
p0 167.1 ± 0.1295
260
240
220
200
180
160
140
120

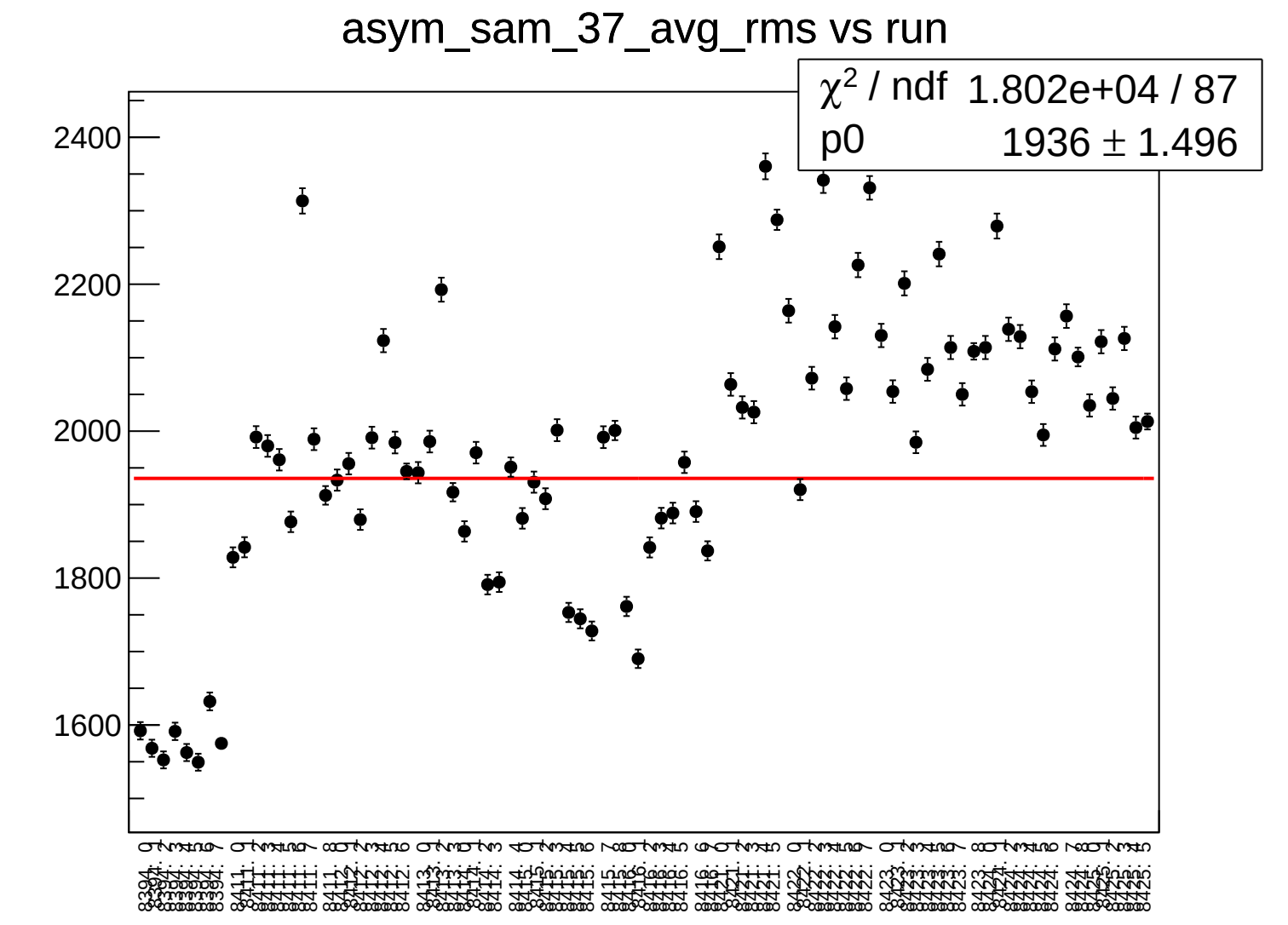

asym_sam_37_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 66.36 / 87
p0 −7873 ± 2063
pull
Entries 88
Mean −278.4
Std Dev 0

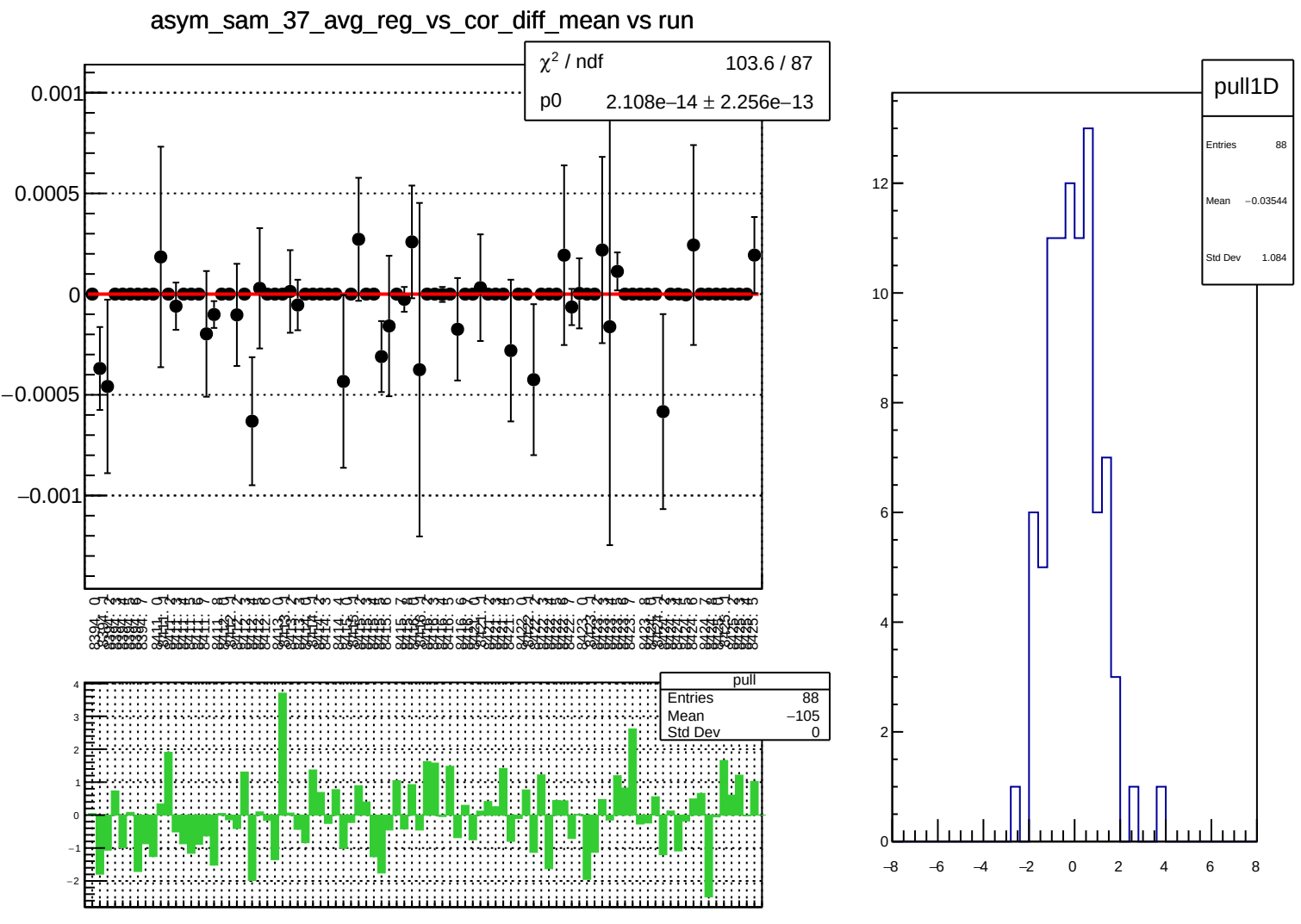

pull1D
Entries 88
Mean 0.01196
Std Dev 0.8683

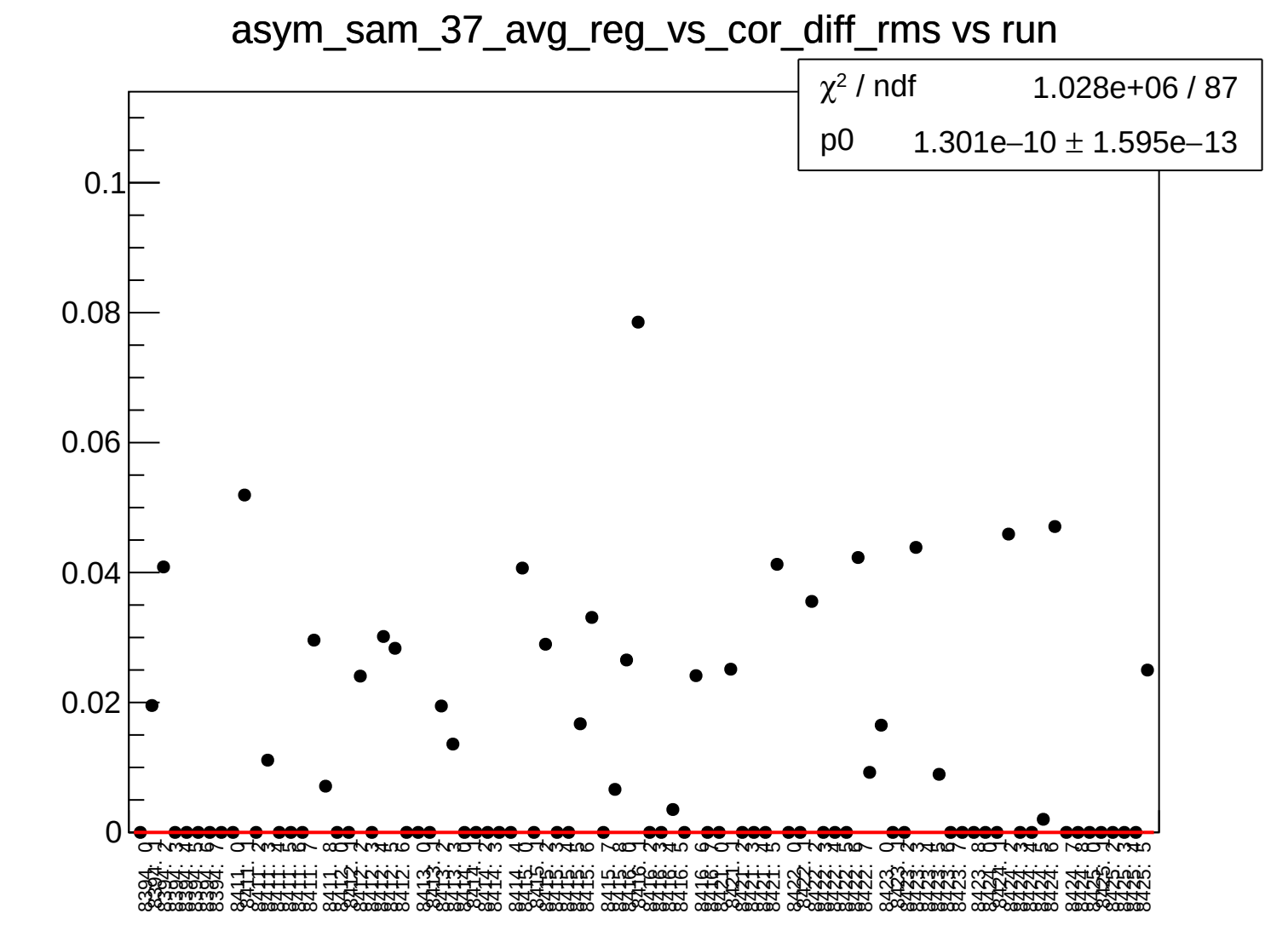

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.79e+04 / 87
p0 1888 ± 1.459
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400

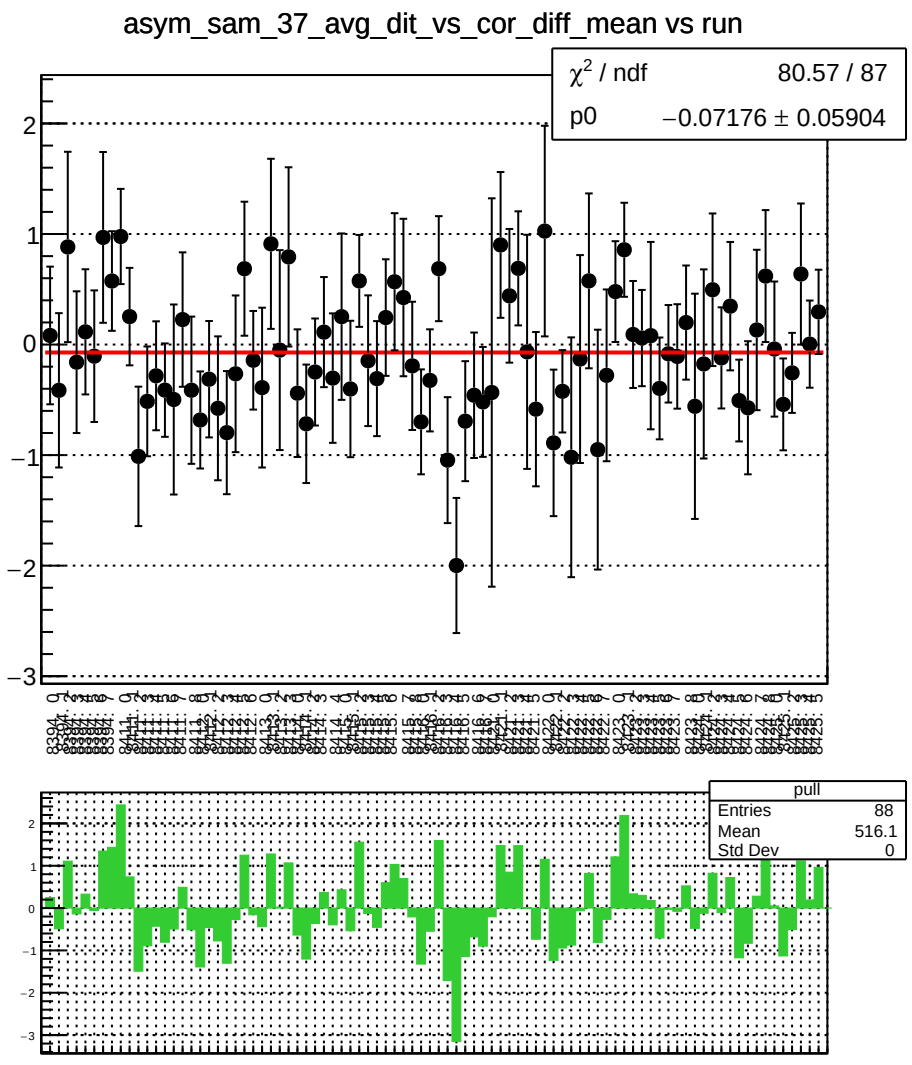

asym_sam_37_avg_mean vs run
χ² / ndf 66.2 / 87
p0 8293 ± 2115
×10³
pull
Entries 88
Mean −317.5
Std Dev 0

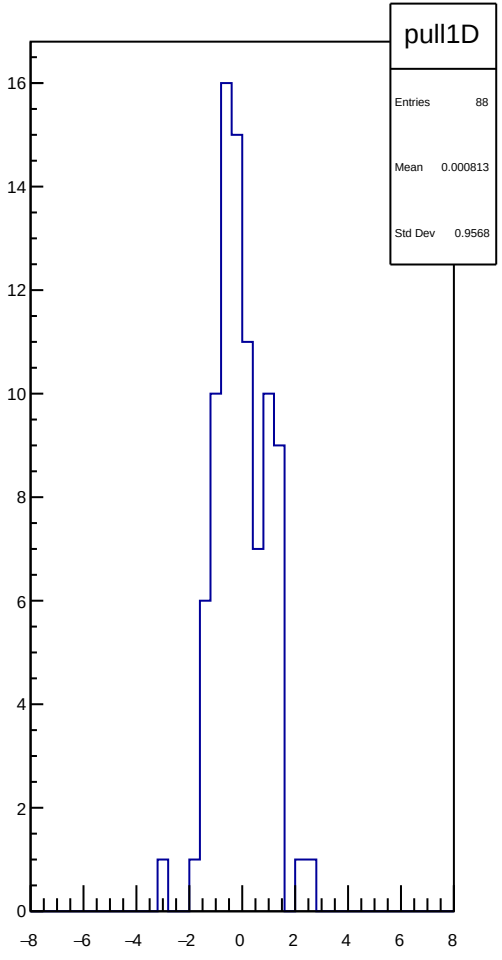

pull1D
Entries 88
Mean −0.01129
Std Dev 0.8672

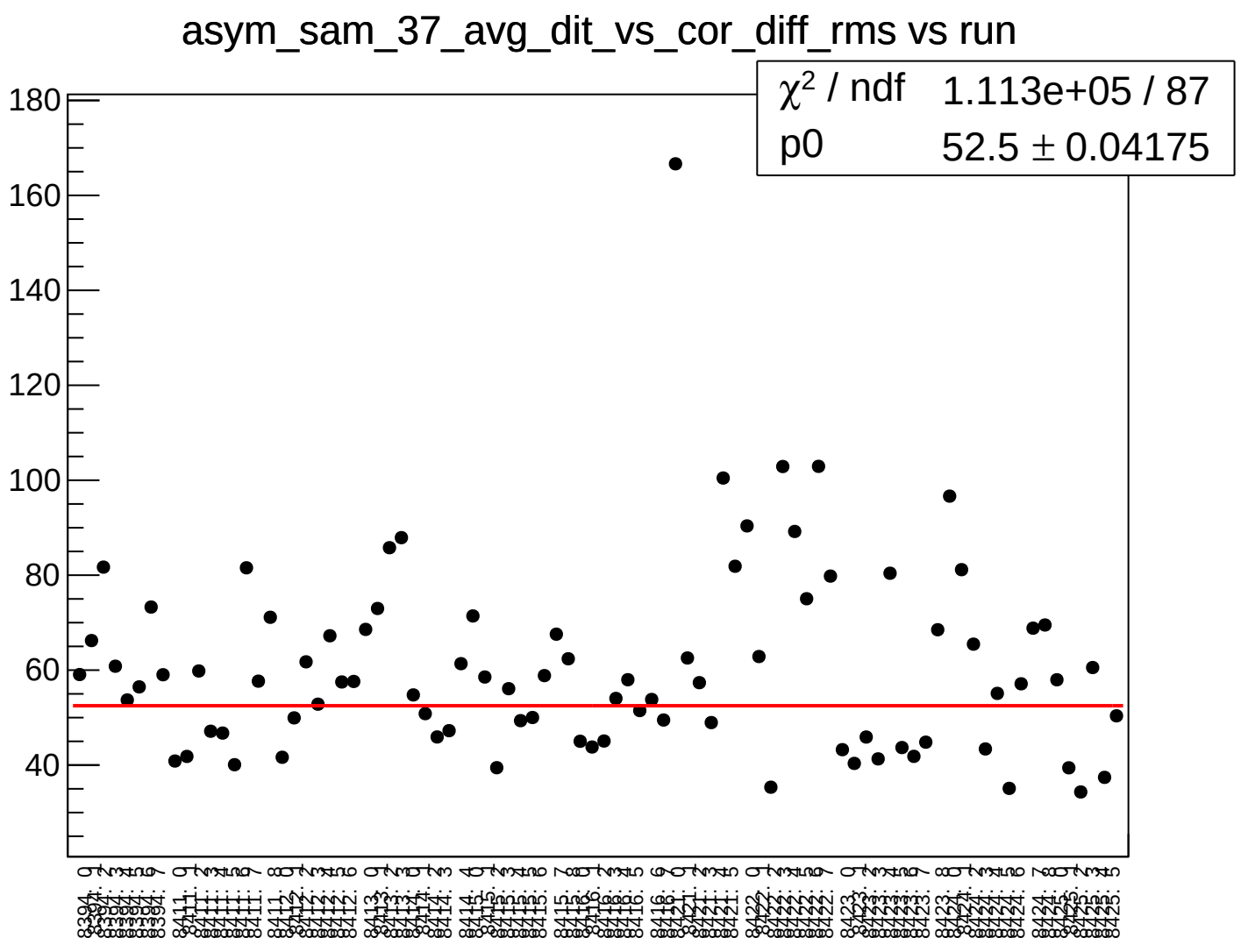

asym_sam_37_avg_rms vs run
χ^2 / ndf 1.802e+04 / 87
p0 1936 ± 1.496
2400
2200
2000
1800
1600

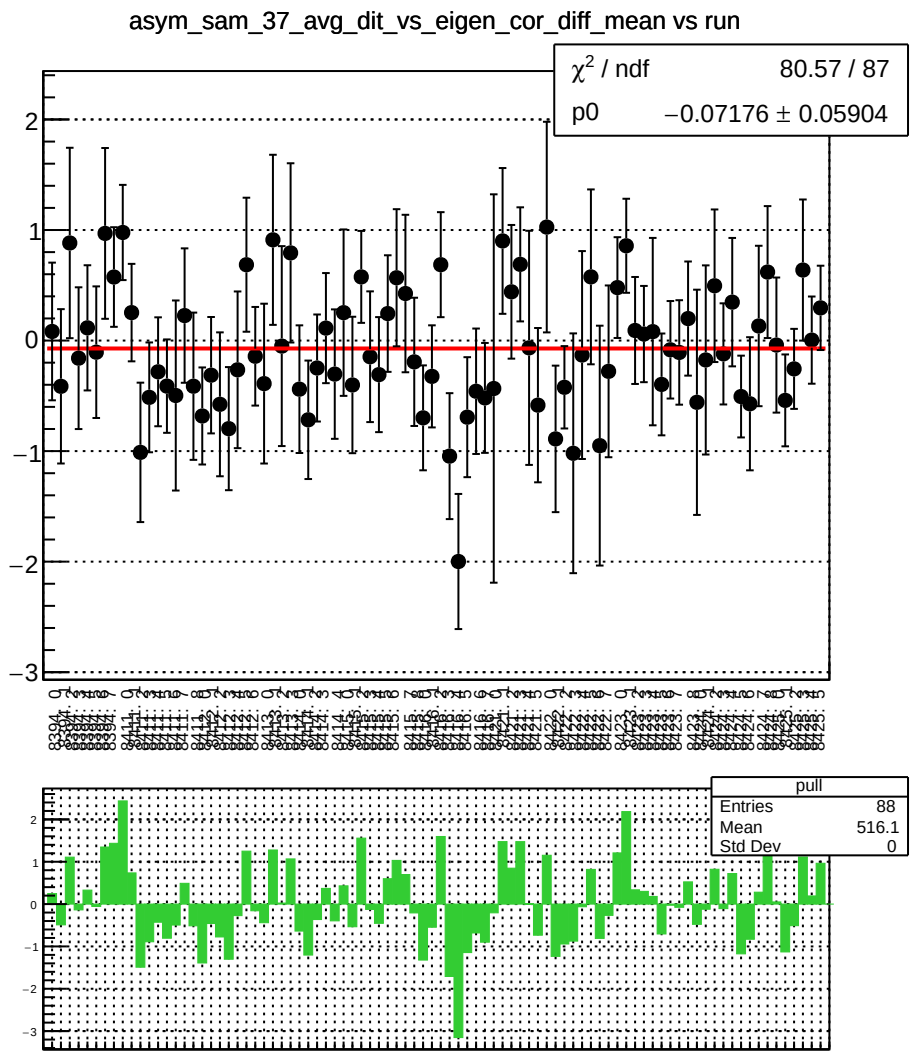

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 103.6 / 87
p0 2.108e−14 ± 2.256e−13
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean −105
Std Dev 0
pull1D
Entries 88
Mean −0.03544
Std Dev 1.084

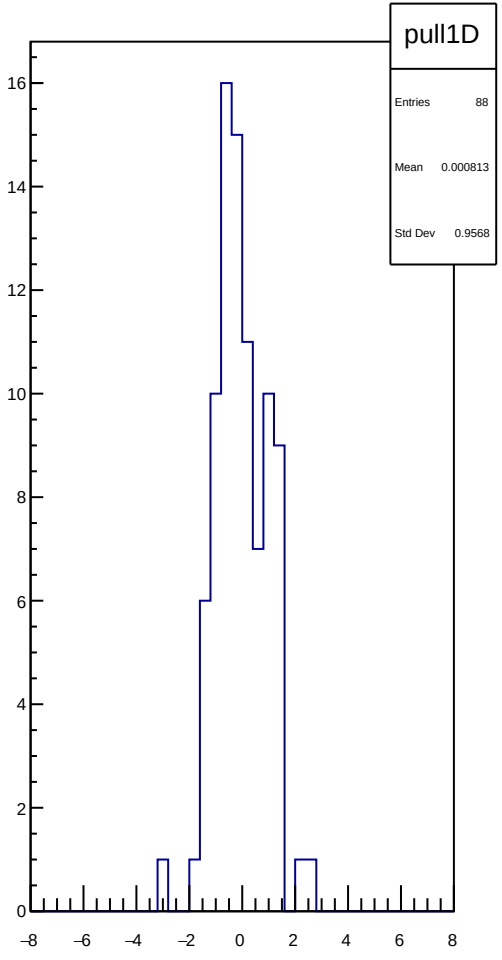

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.028e+06 / 87
p0 1.301e−10 ± 1.595e−13
0.1
0.08
0.06
0.04
0.02
0

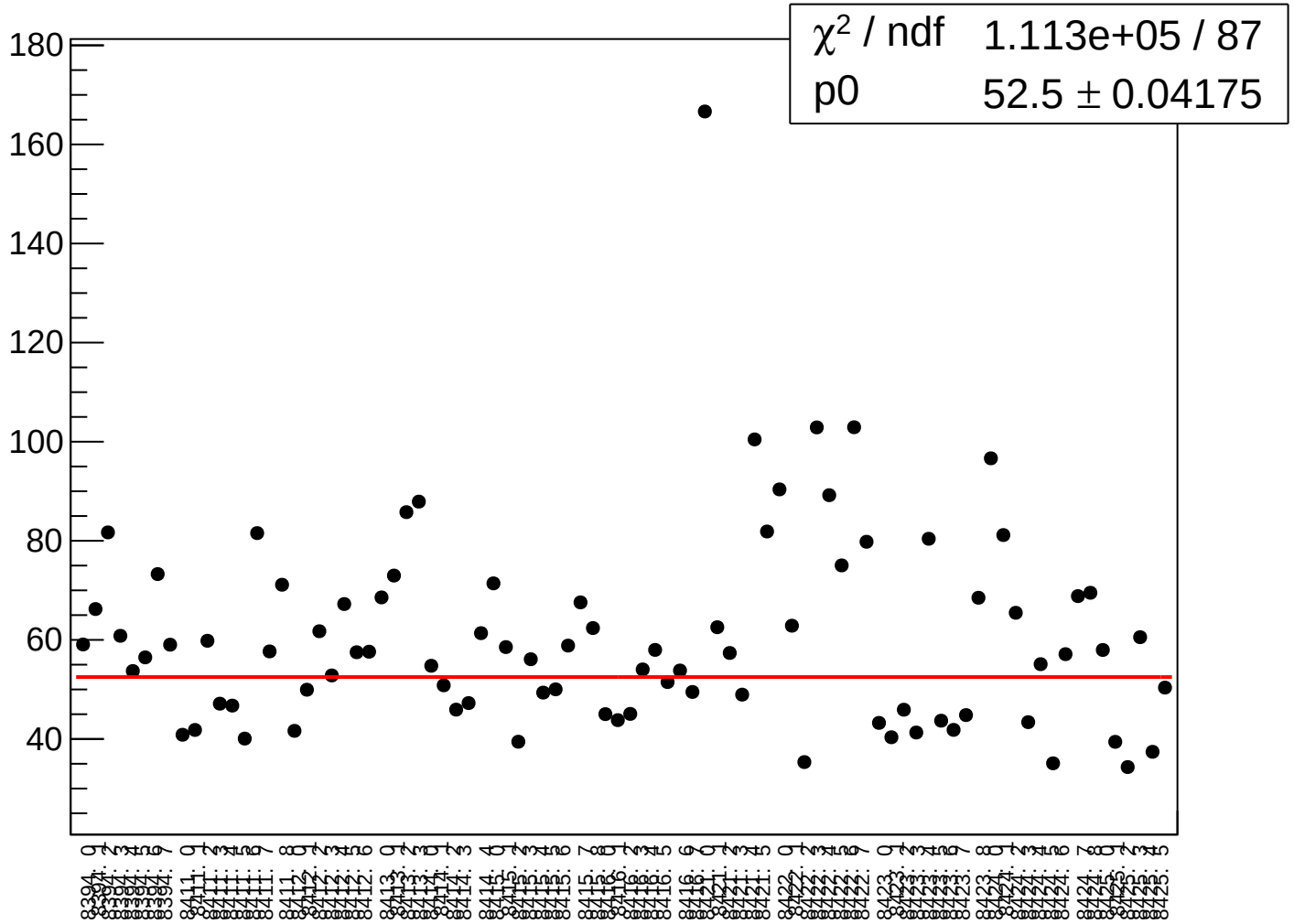

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80.57 / 87
p0 −0.07176 ± 0.05904
pull
Entries 88
Mean 516.1
Std Dev 0

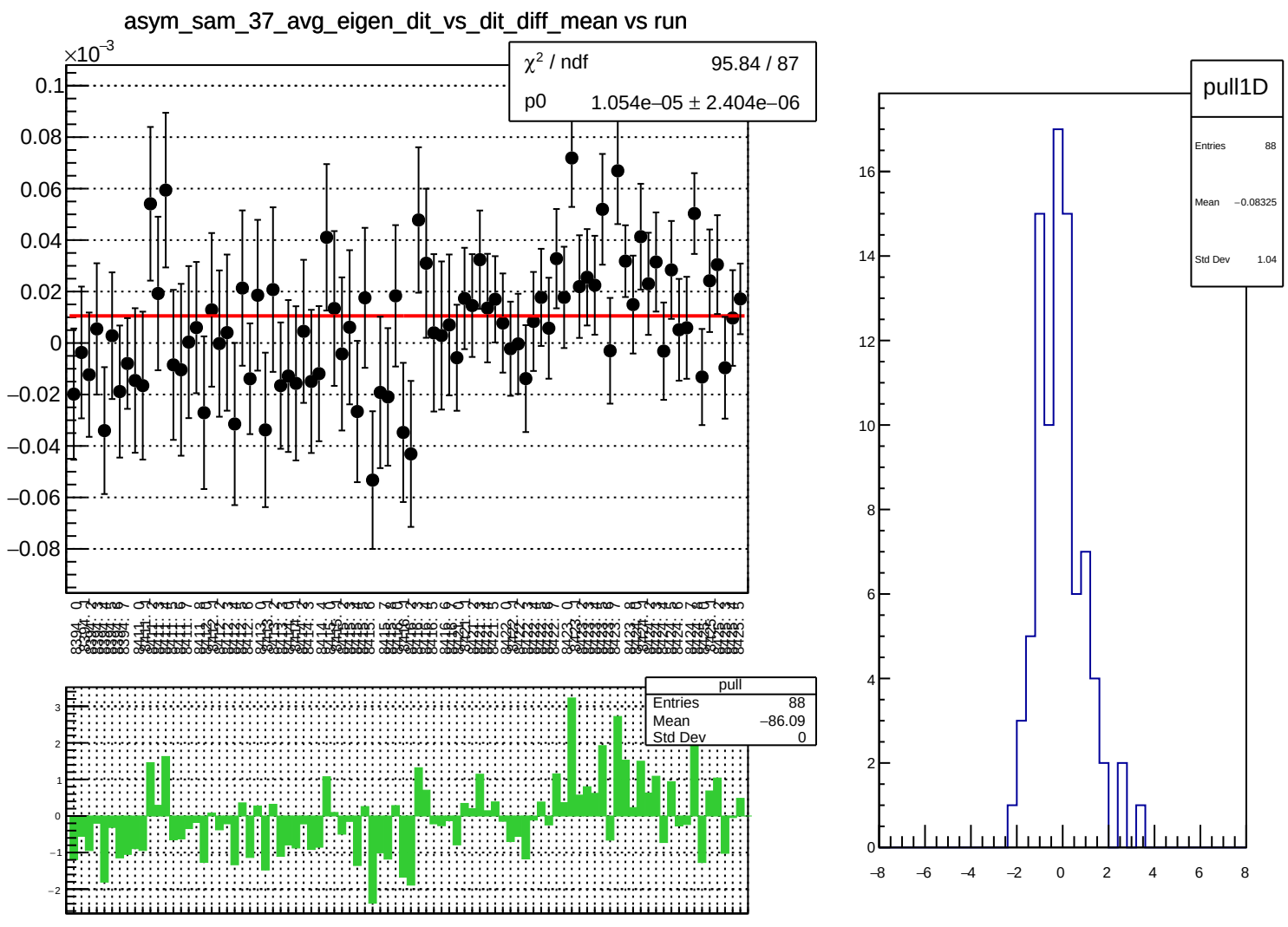

pull1D
Entries 88
Mean 0.000813
Std Dev 0.9568

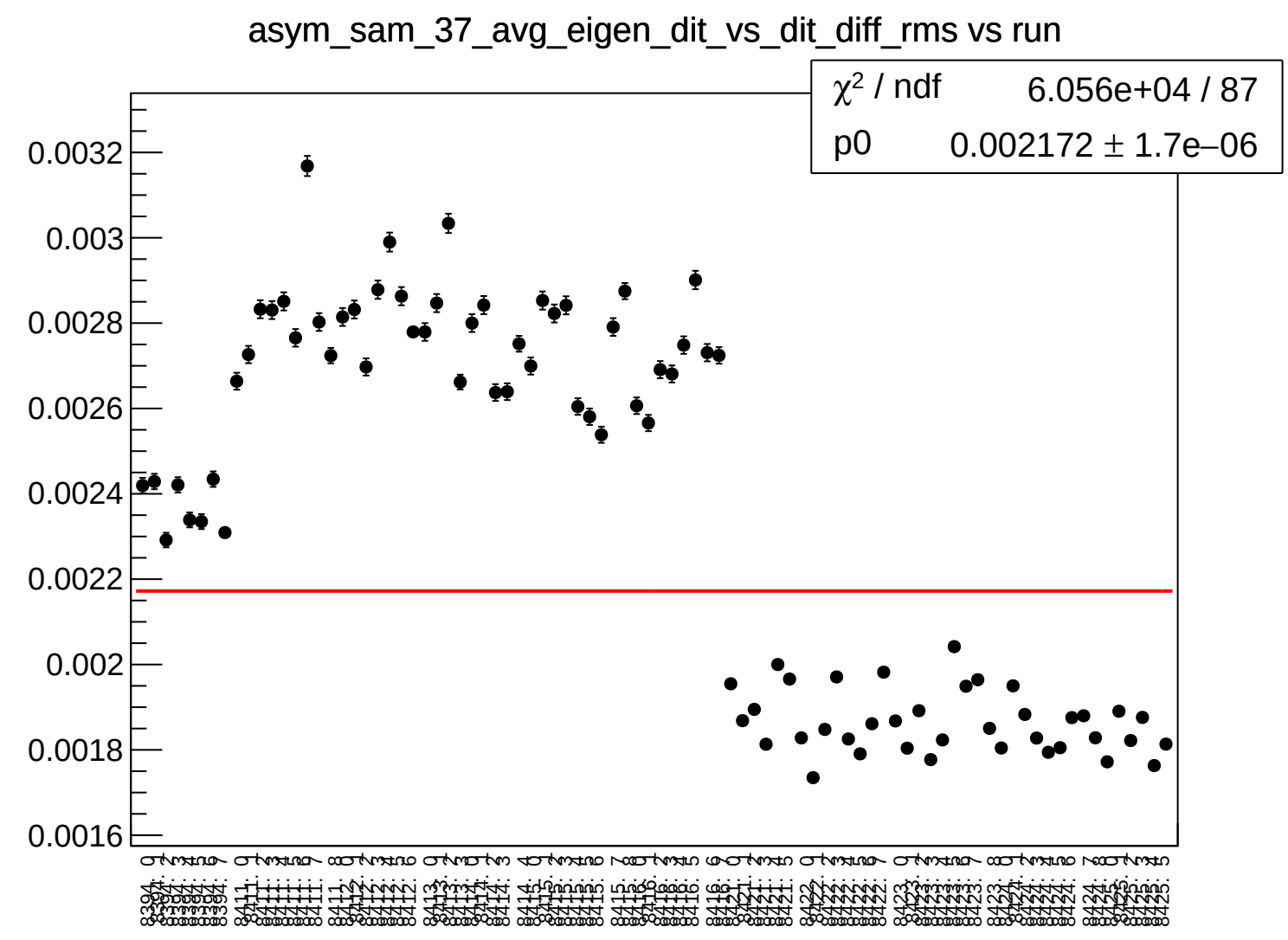

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.113e+05 / 87
p0 52.5 ± 0.04175
180
160
140
120
100
80
60
40

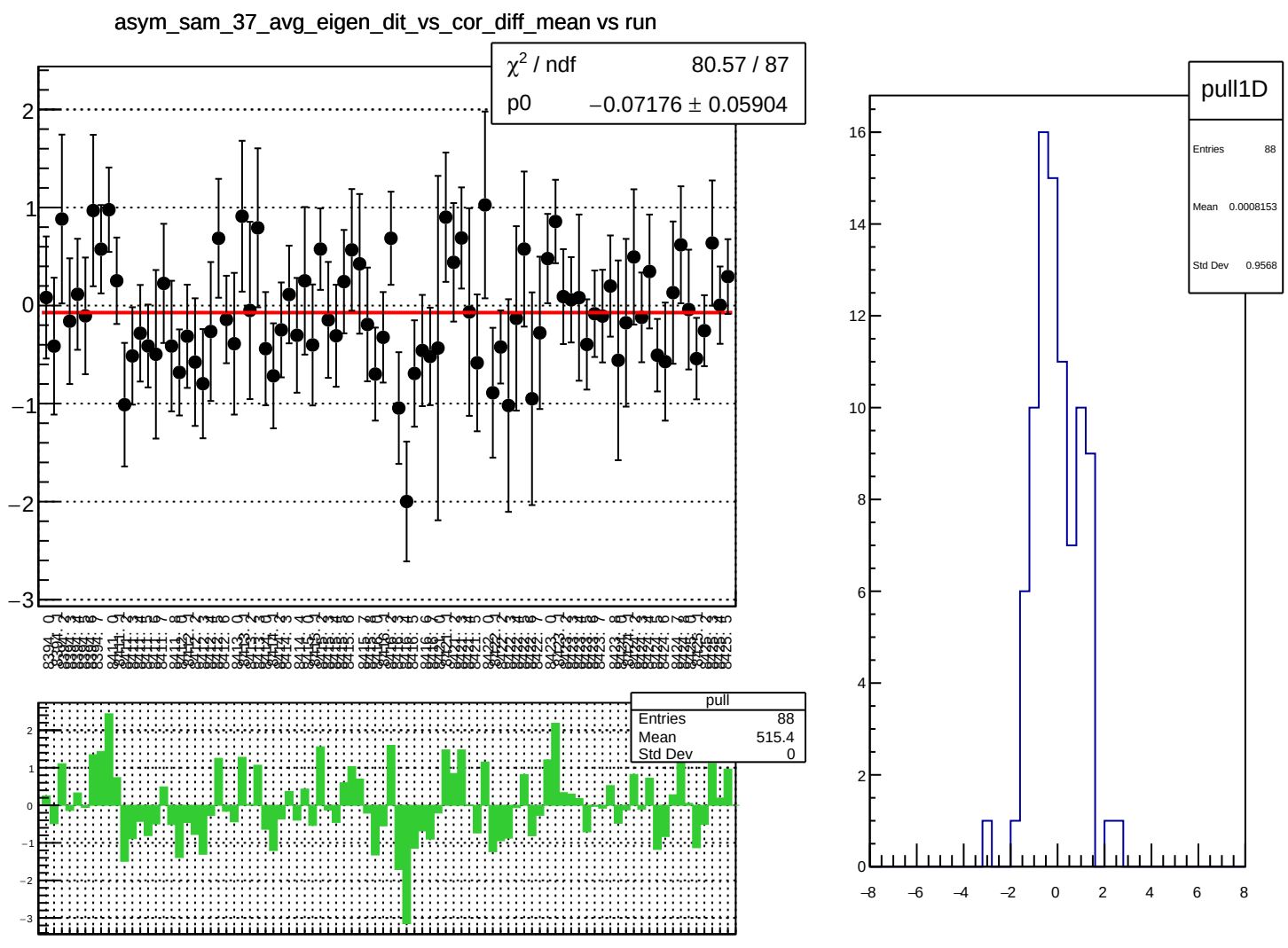

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.57 / 87
p0 −0.07176 ± 0.05904
pull
Entries 88
Mean 516.1
Std Dev 0

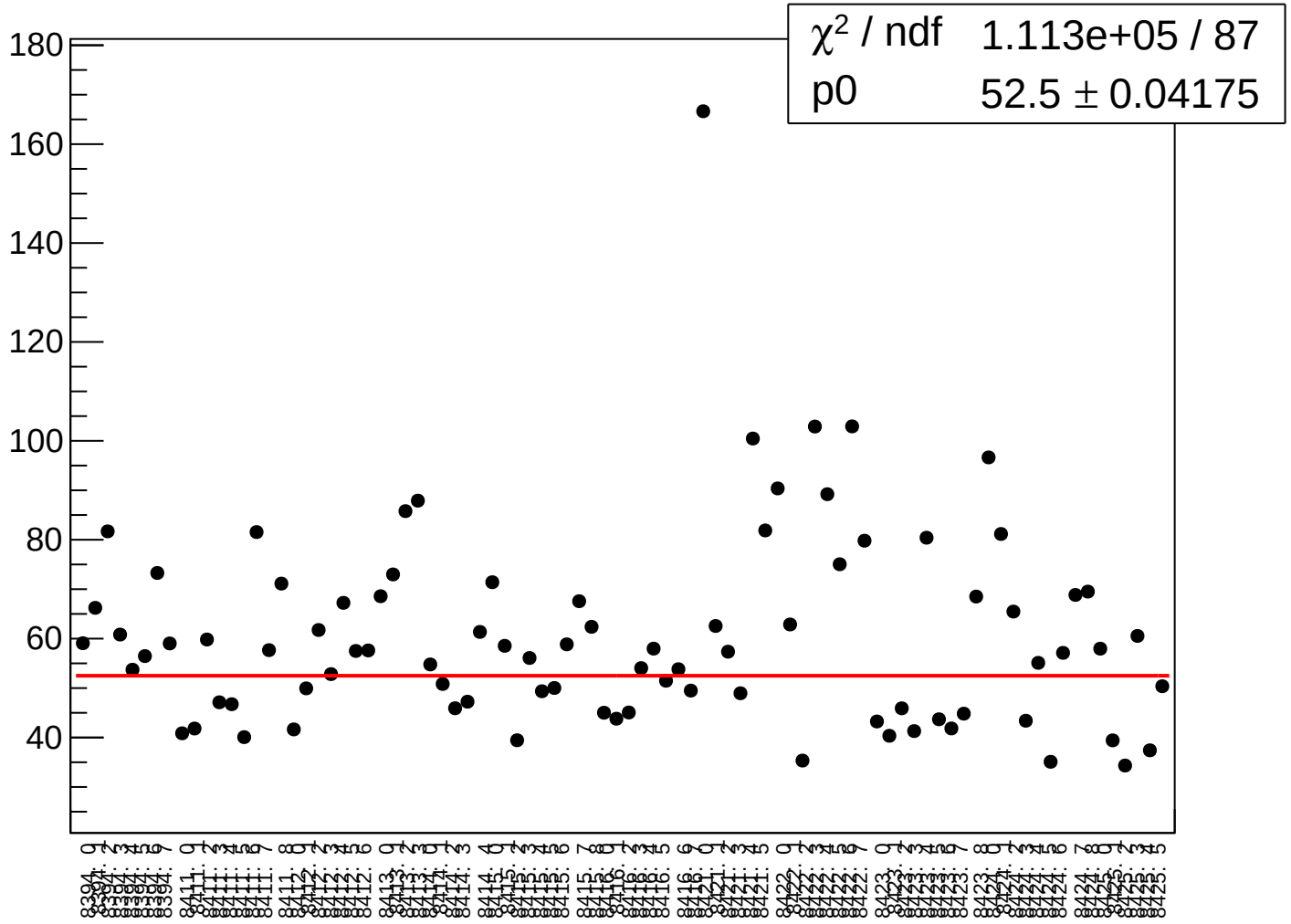

pull1D
Entries 88
Mean 0.000813
Std Dev 0.9568

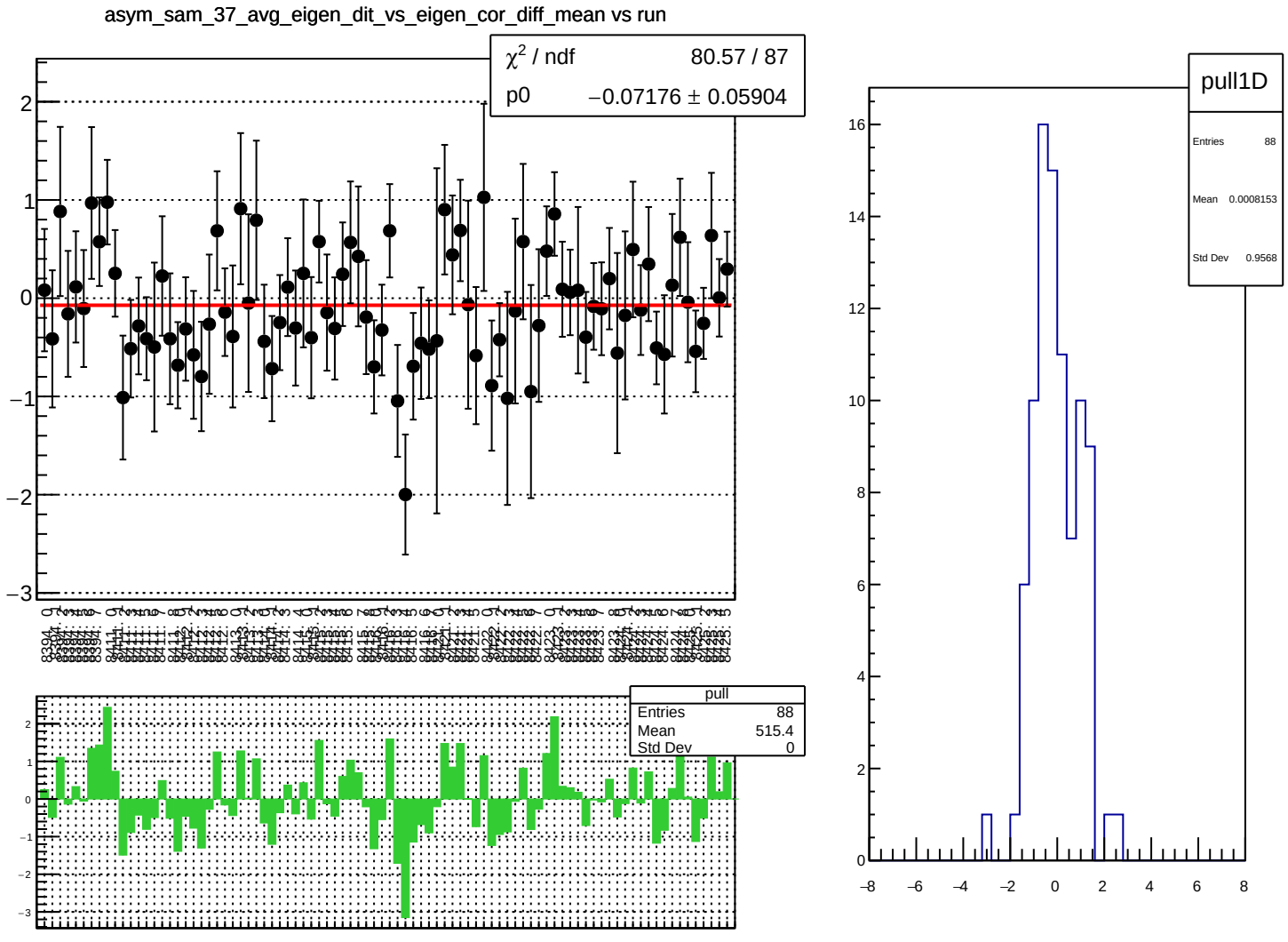

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.113e+05 / 87
p0 52.5 ± 0.04175
180
160
140
120
100
80
60
40

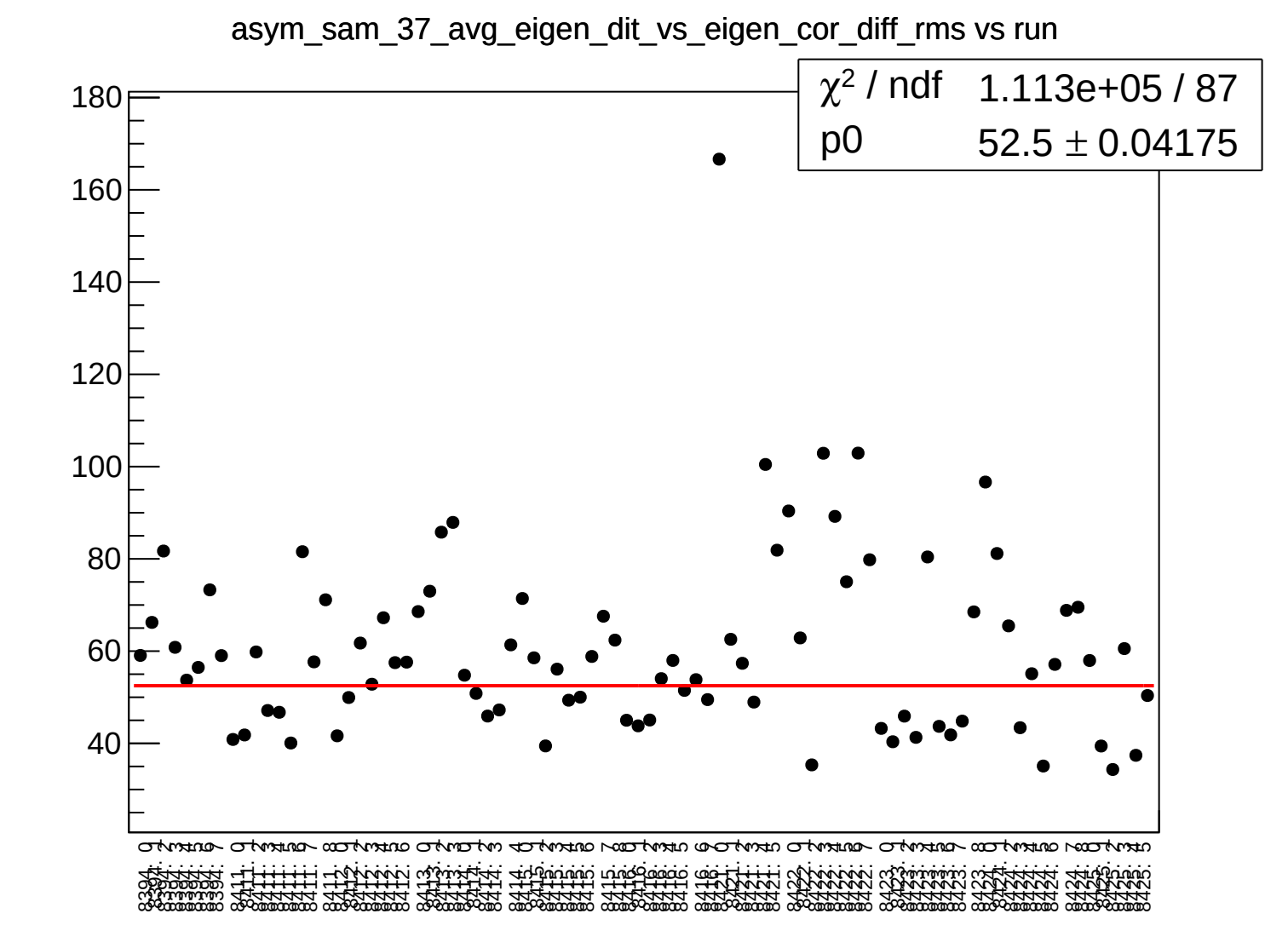

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.84 / 87
p0 1.054e−05 ± 2.404e−06
pull
Entries 88
Mean −86.09
Std Dev 0
pull1D
Entries 88
Mean −0.08325
Std Dev 1.04

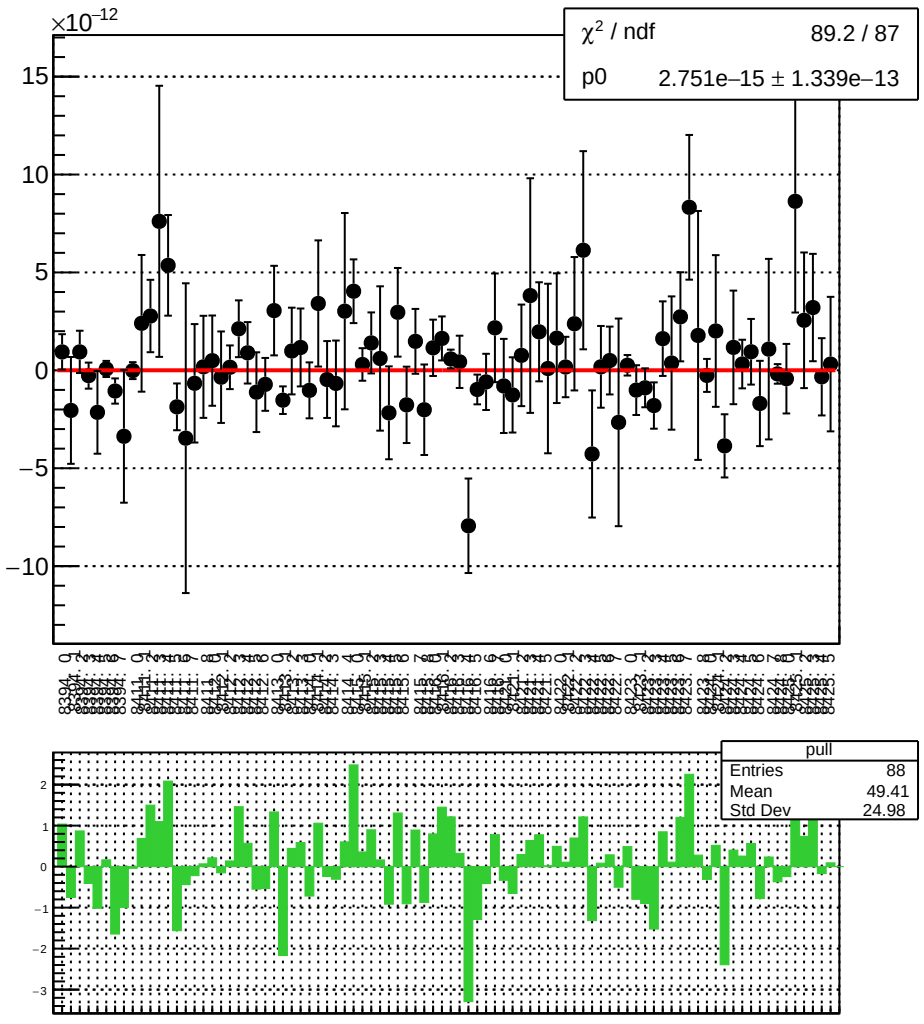

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.056e+04 / 87
p0 0.002172 ± 1.7e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016

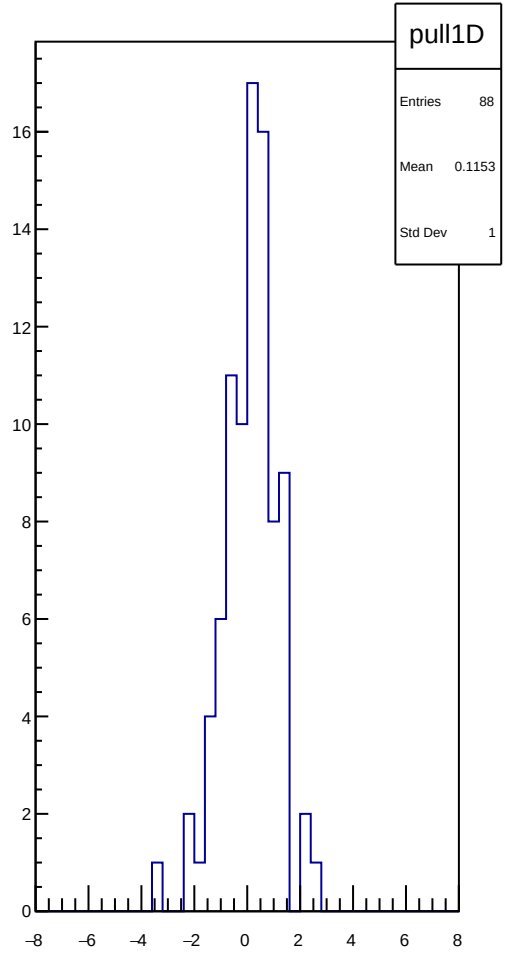

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.57 / 87
p0 −0.07176 ± 0.05904
pull
Entries 88
Mean 515.4
Std Dev 0
pull1D
Entries 88
Mean 0.0008153
Std Dev 0.9568

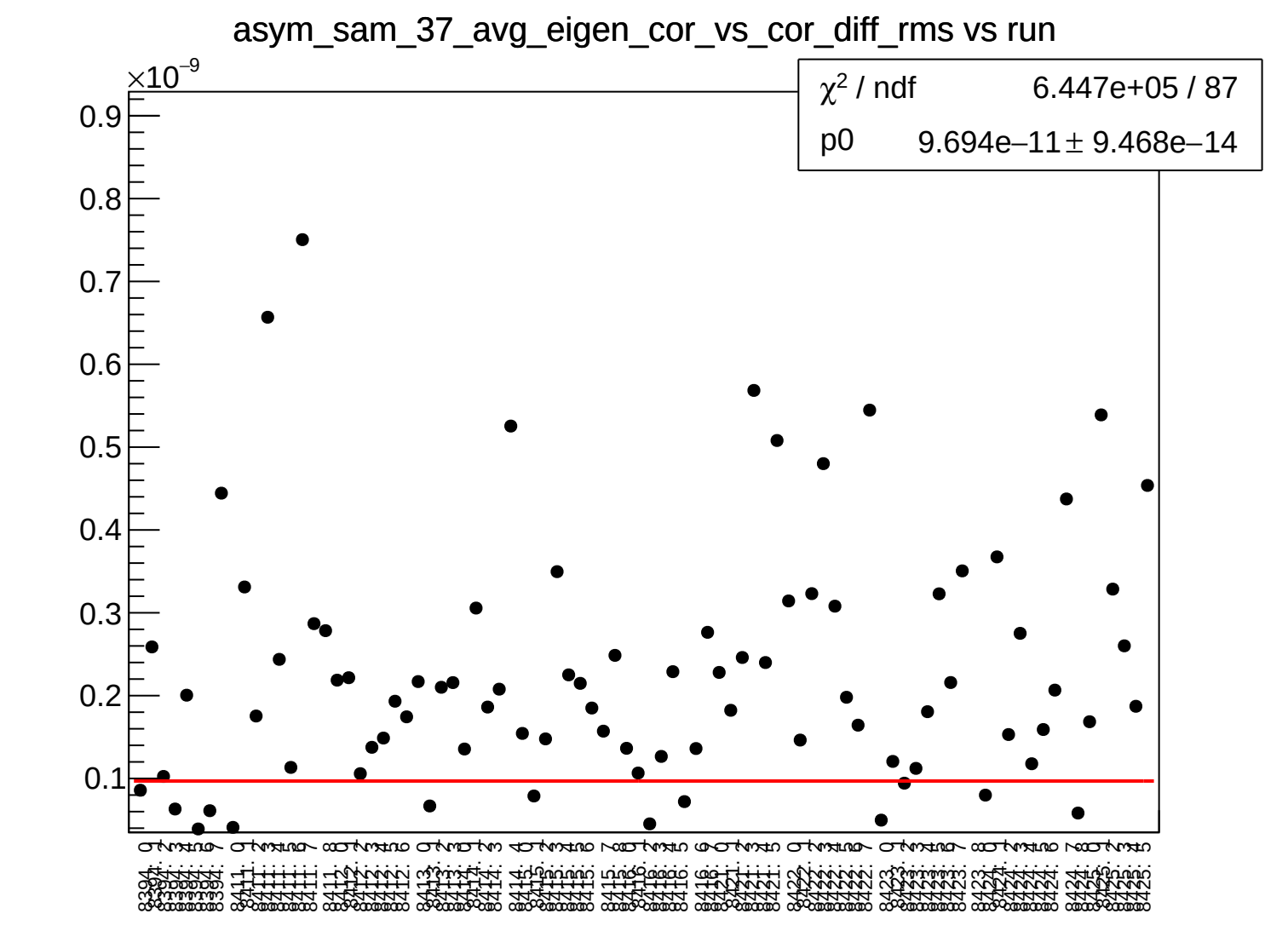

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.113e+05 / 87
p0 52.5 ± 0.04175
180
160
140
120
100
80
60
40

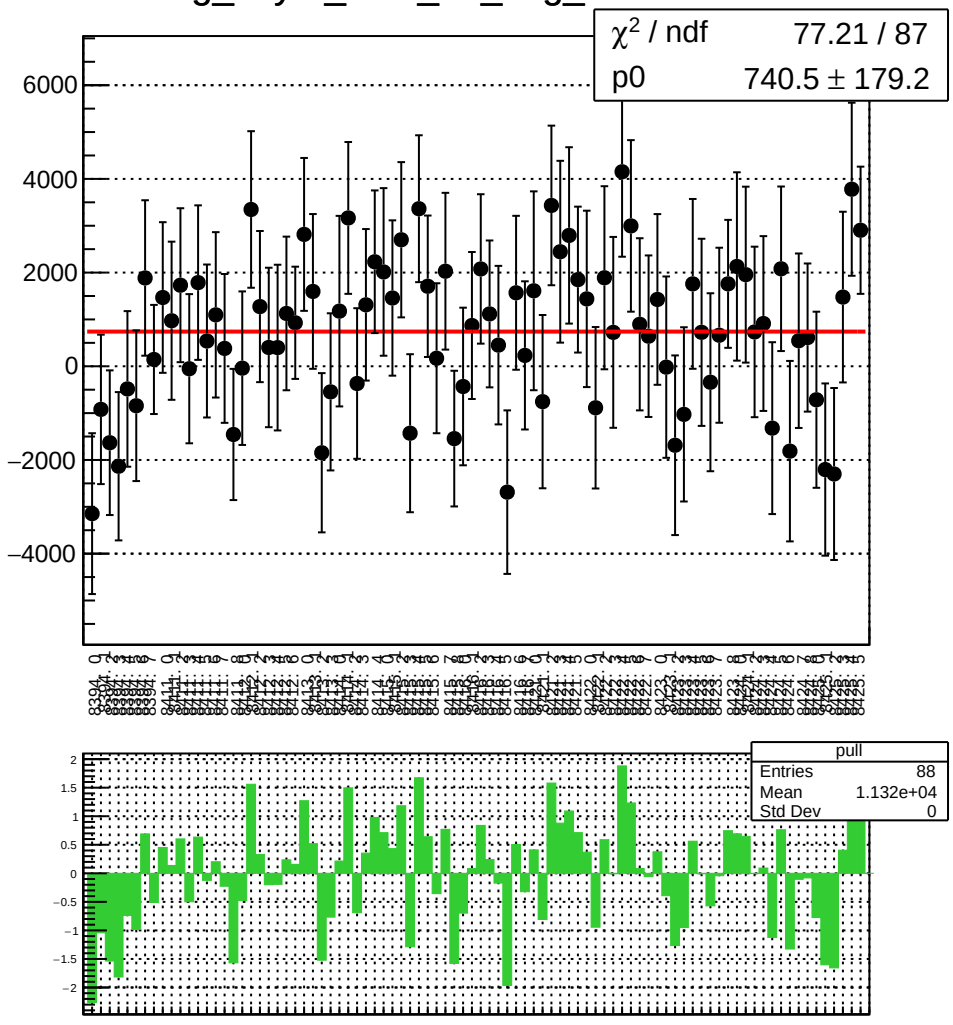

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.57 / 87
p0 −0.07176 ± 0.05904
pull
Entries 88
Mean 515.4
Std Dev 0
pull1D
Entries 88
Mean 0.0008153
Std Dev 0.9568

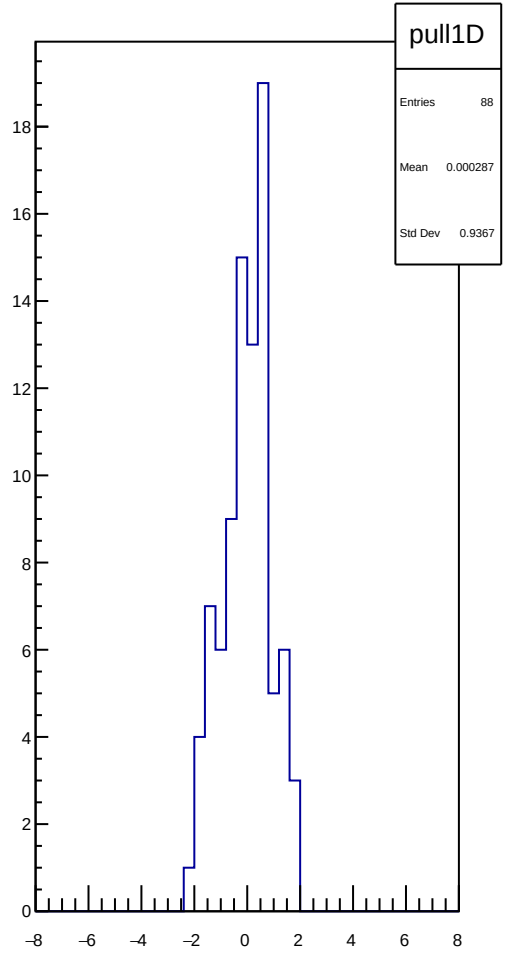

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.113e+05 / 87
p0 52.5 ± 0.04175
180
160
140
120
100
80
60
40

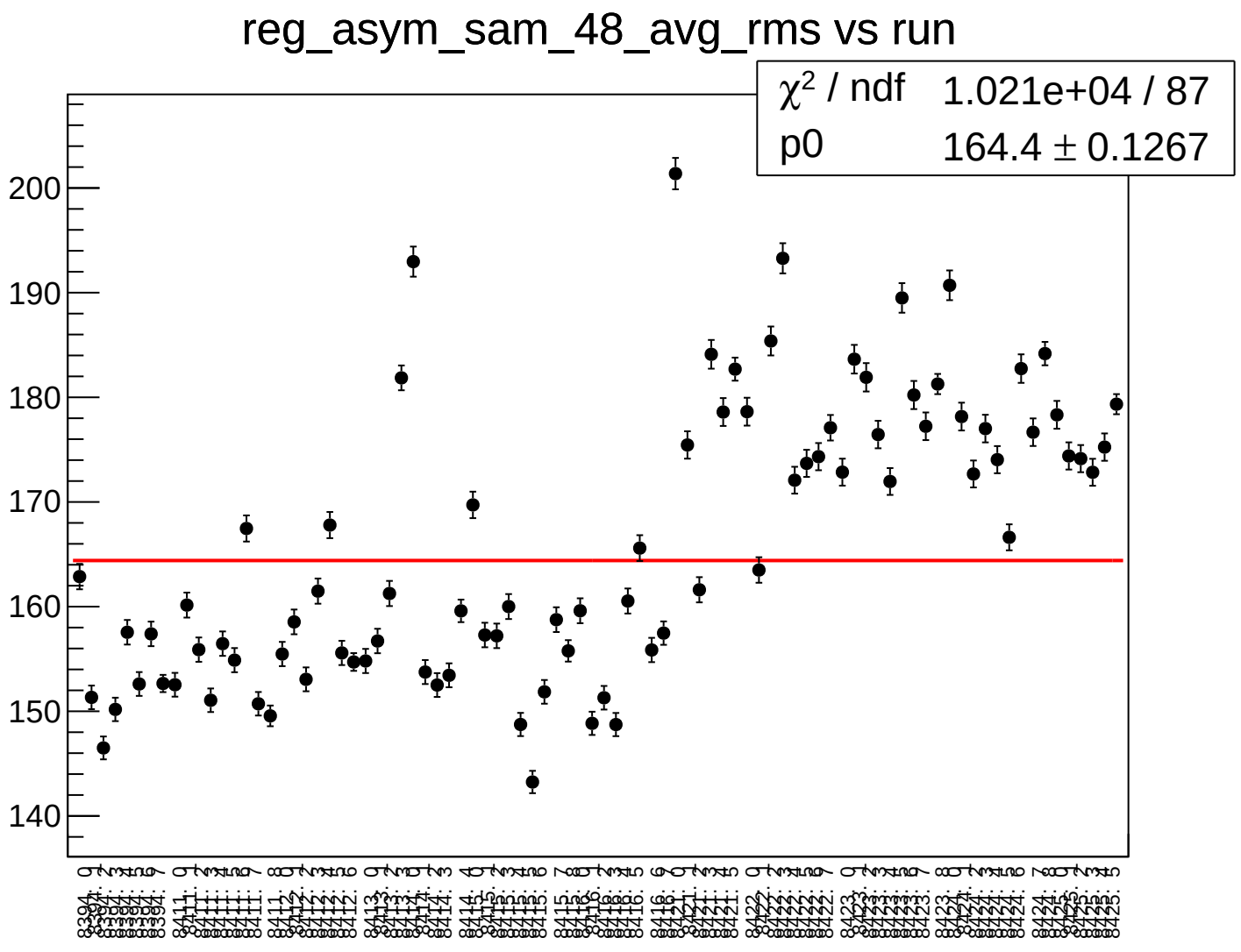

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.2 / 87
p0 2.751e−15 ± 1.339e−13
15
10
5
0
−5
−10
pull
Entries 88
Mean 49.41
Std Dev 24.98
2
1
0
−1
−2
−3

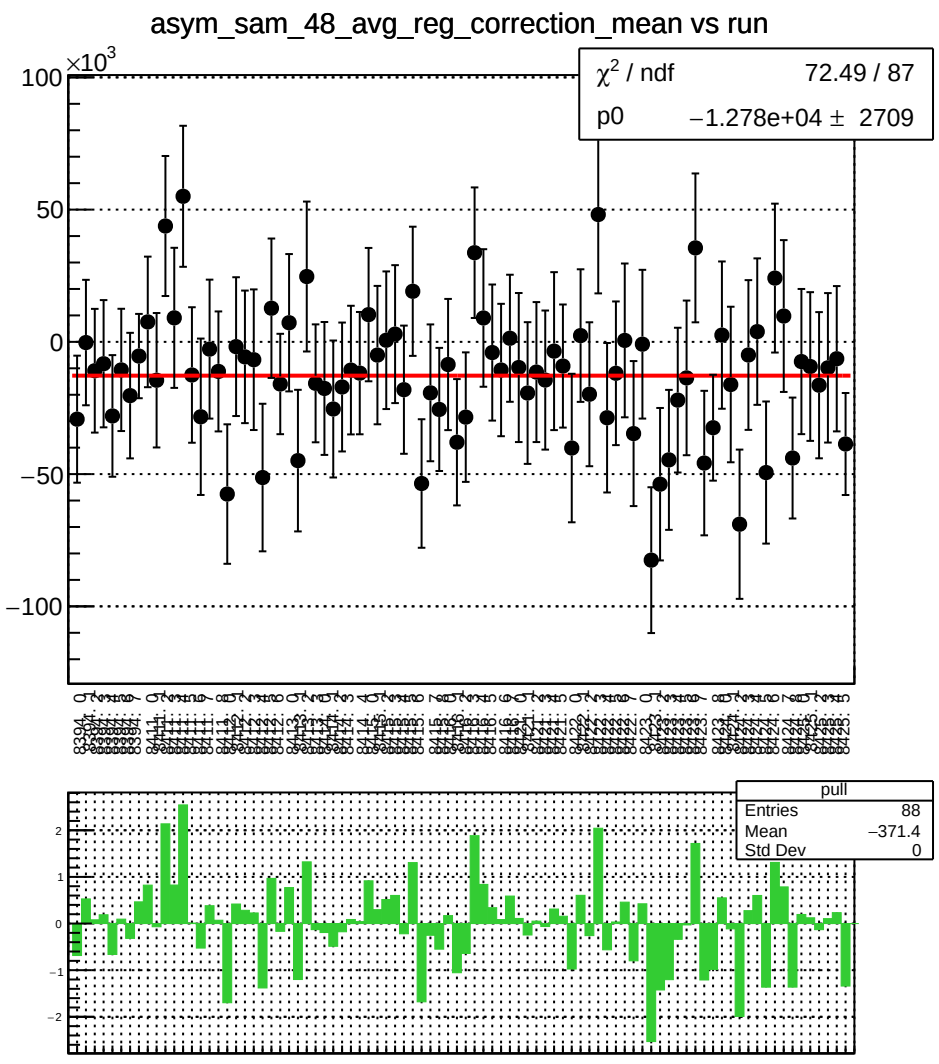

pull1D
Entries 88
Mean 0.1153
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

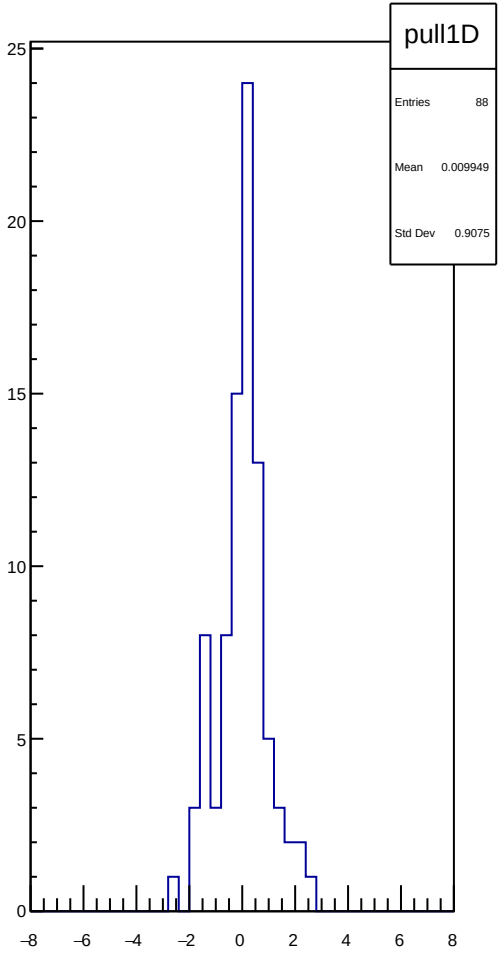

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.447e+05 / 87
p0 9.694e−11 ± 9.468e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

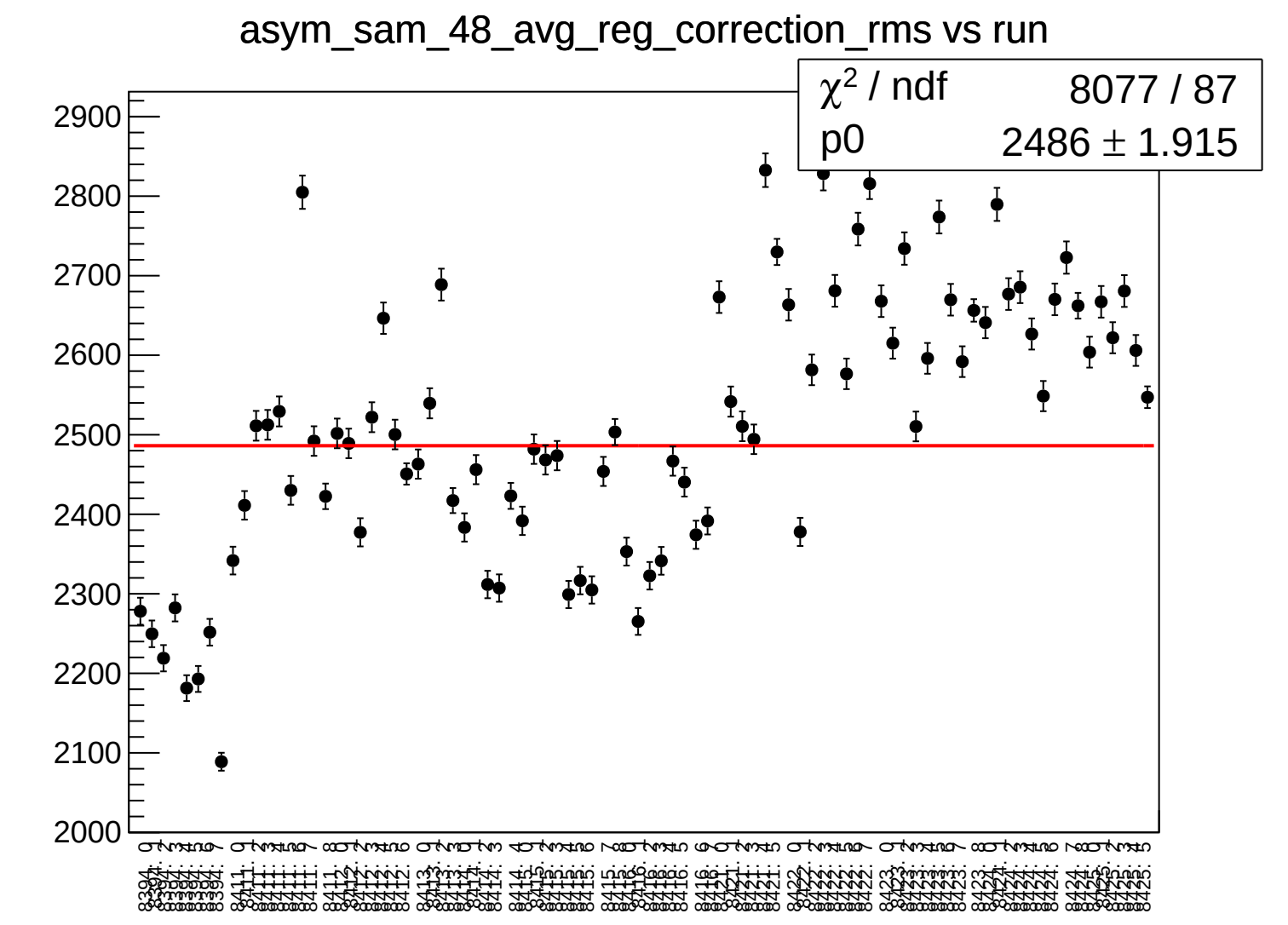

reg_asym_sam_48_avg_mean vs run
χ^2 / ndf 77.21 / 87
p0 740.5 ± 179.2
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 1.132e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

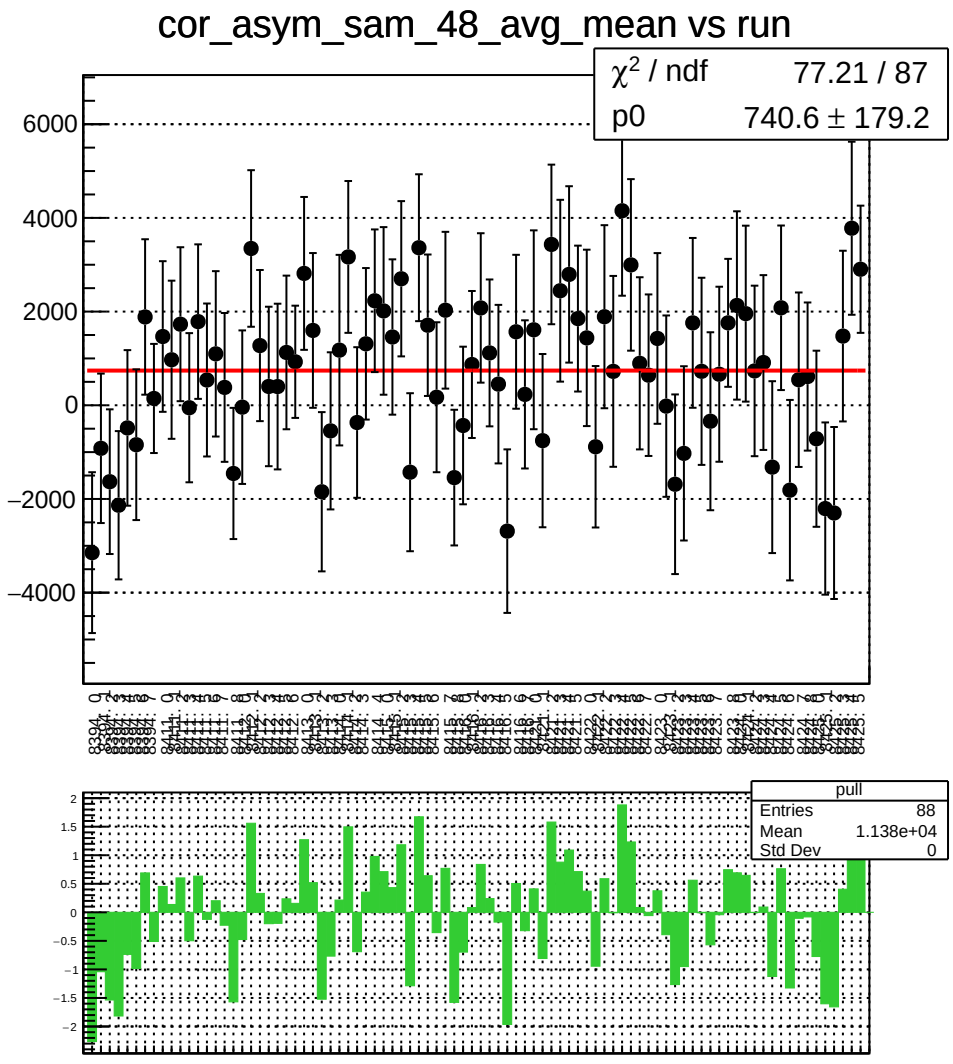

pull1D
Entries 88
Mean 0.000287
Std Dev 0.9367
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

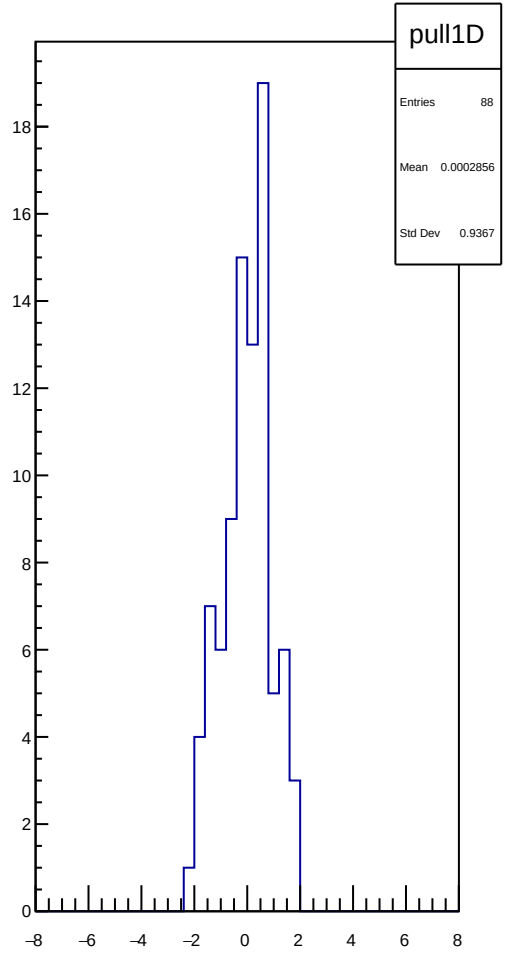

reg_asym_sam_48_avg_rms vs run
χ² / ndf 1.021e+04 / 87
p0 164.4 ± 0.1267
200
190
180
170
160
150
140

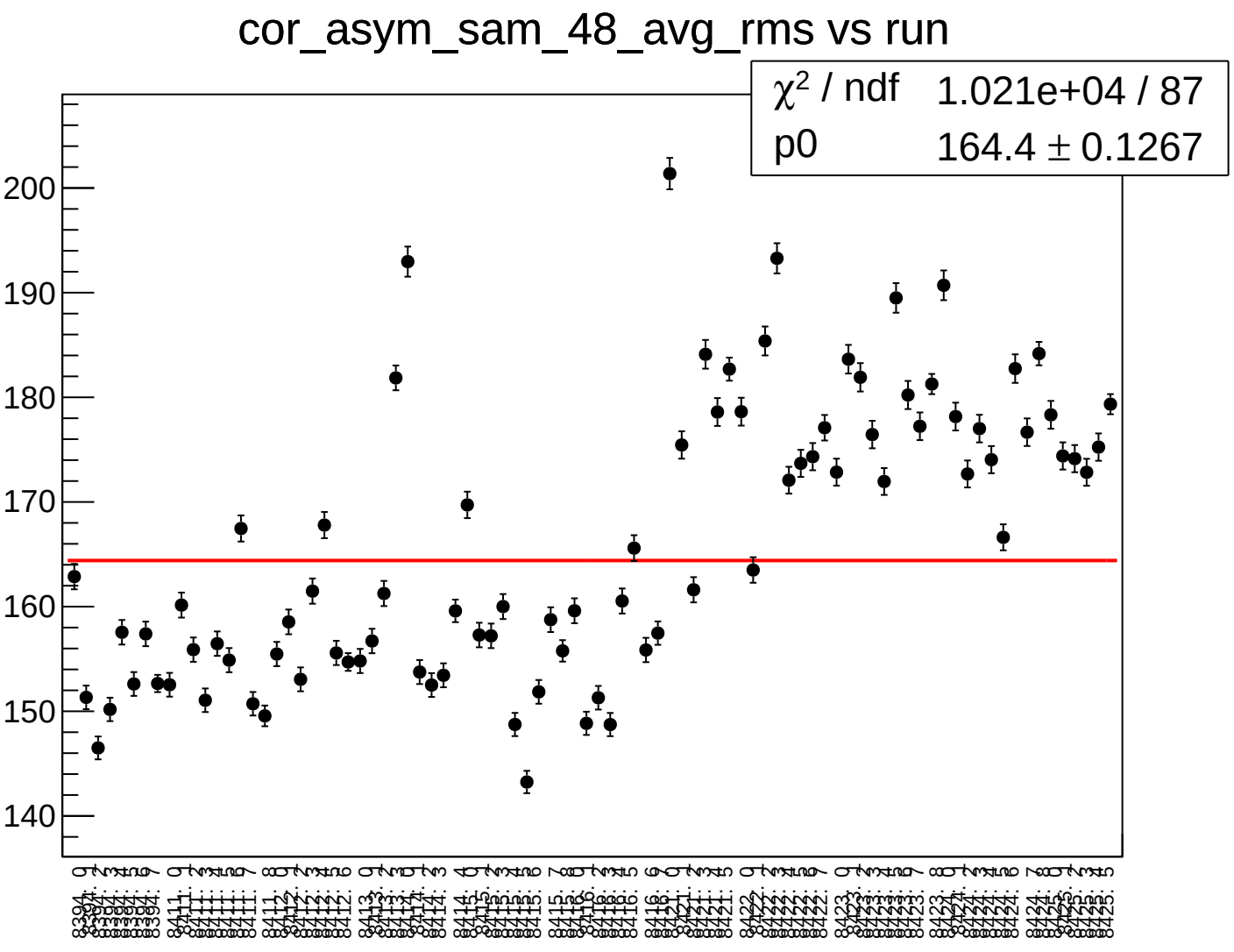

asym_sam_48_avg_reg_correction_mean vs run
×10^3
χ² / ndf 72.49 / 87
p0 −1.278e+04 ± 2709
pull
Entries 88
Mean −371.4
Std Dev 0

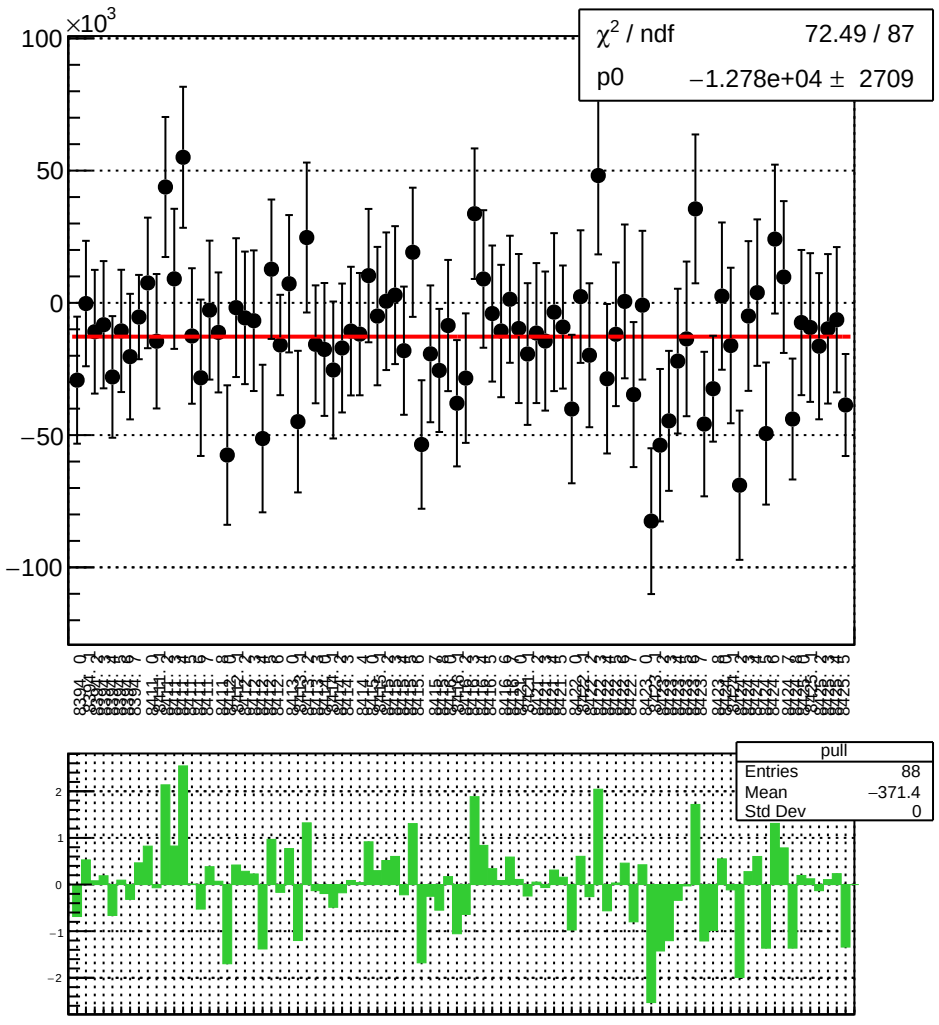

pull1D
Entries 88
Mean 0.009949
Std Dev 0.9075

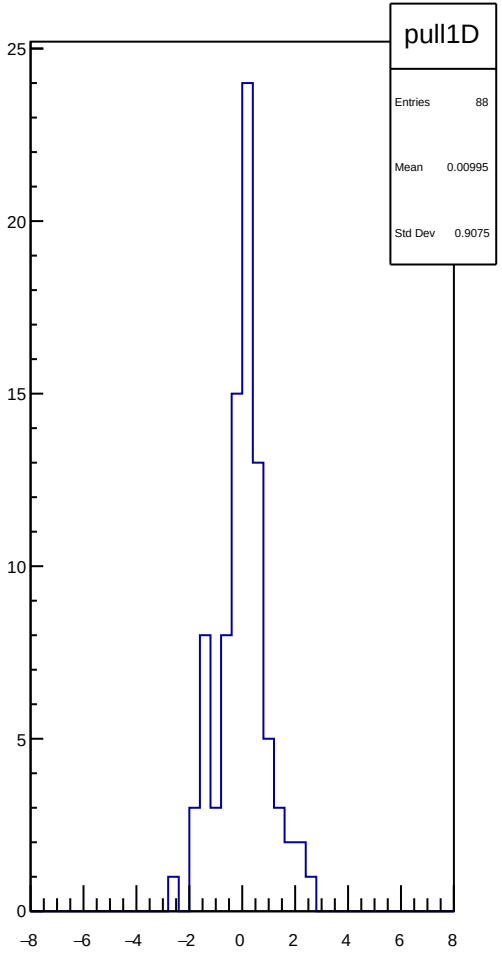

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 8077 / 87
p0 2486 ± 1.915
2900
2800
2700
2600
2500
2400
2300
2200
2100
2000

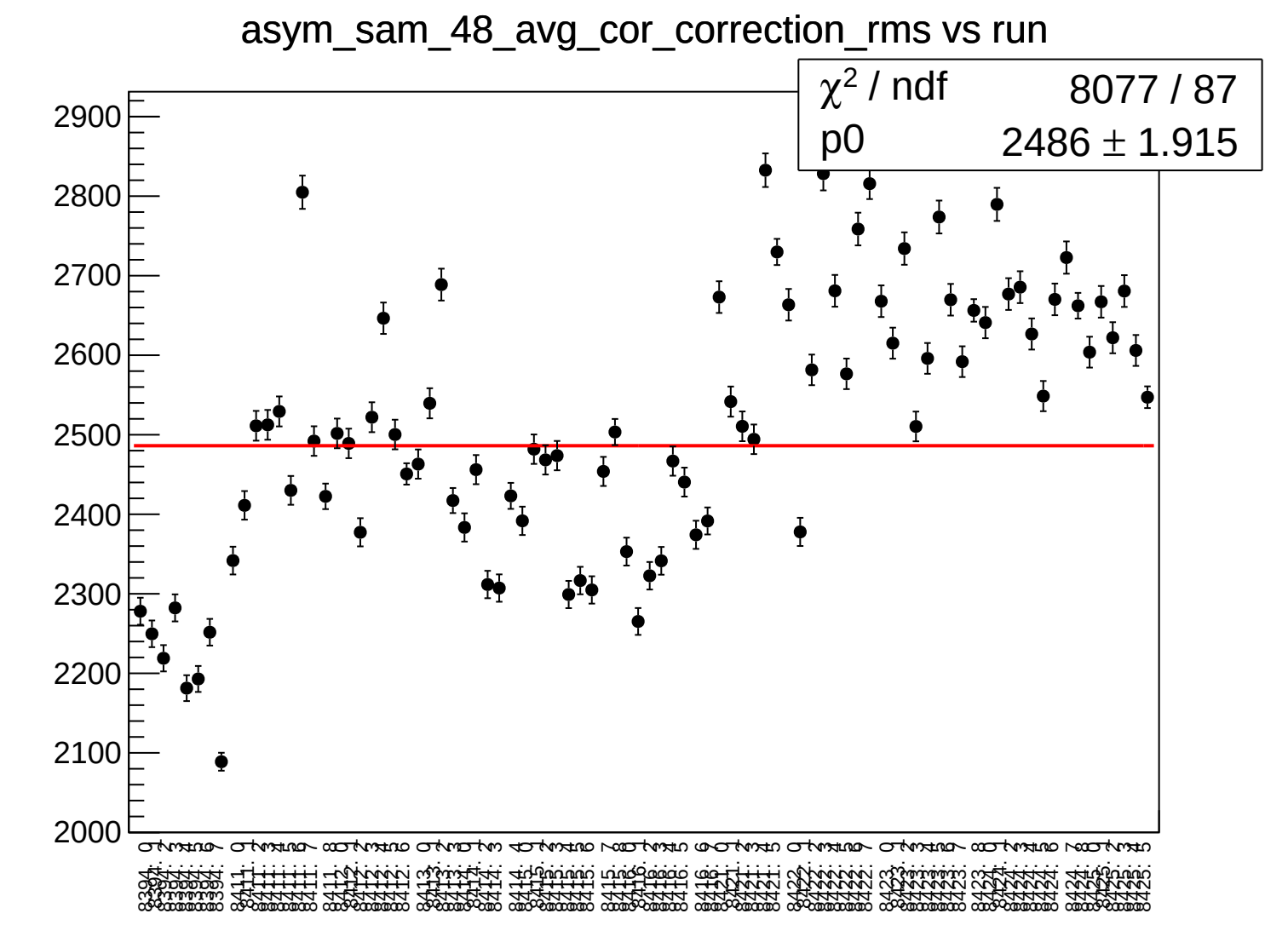

cor_asym_sam_48_avg_mean vs run
χ² / ndf 77.21 / 87
p0 740.6 ± 179.2
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 1.138e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

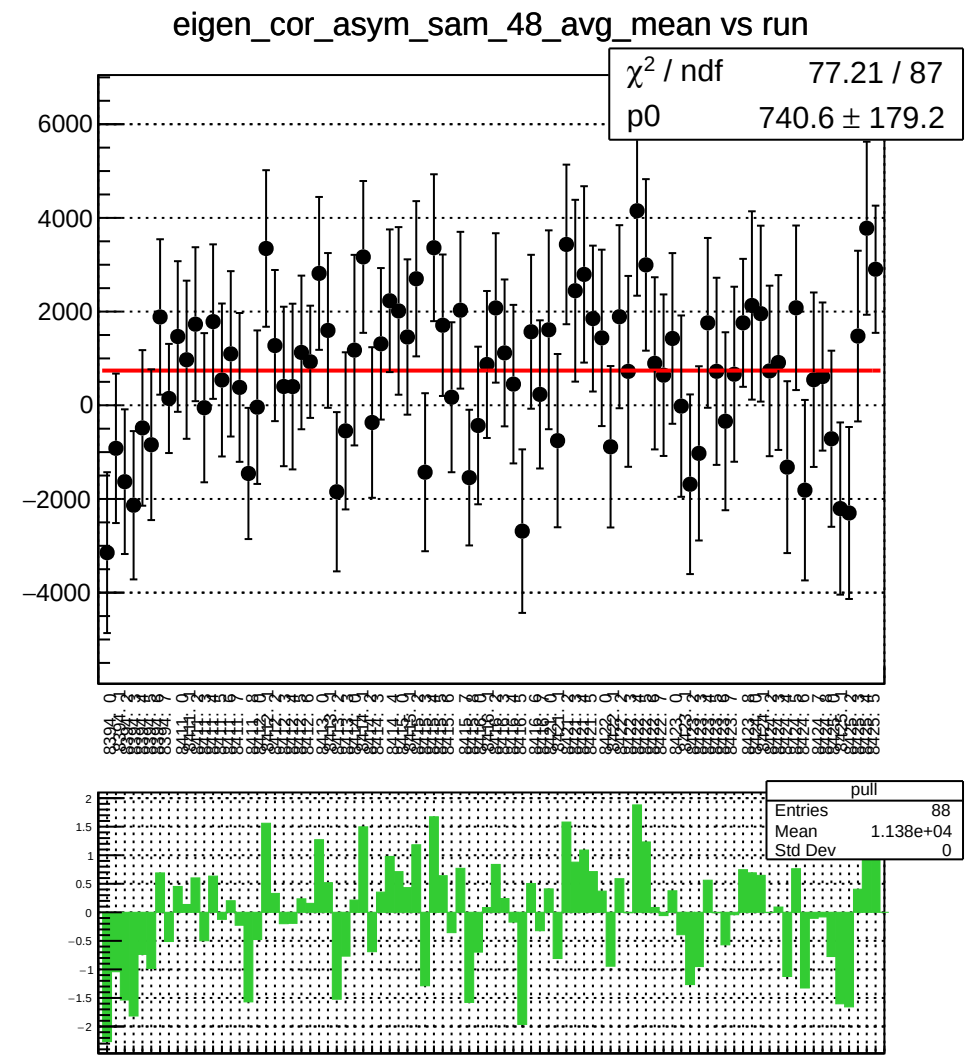

pull1D
Entries 88
Mean 0.0002856
Std Dev 0.9367
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

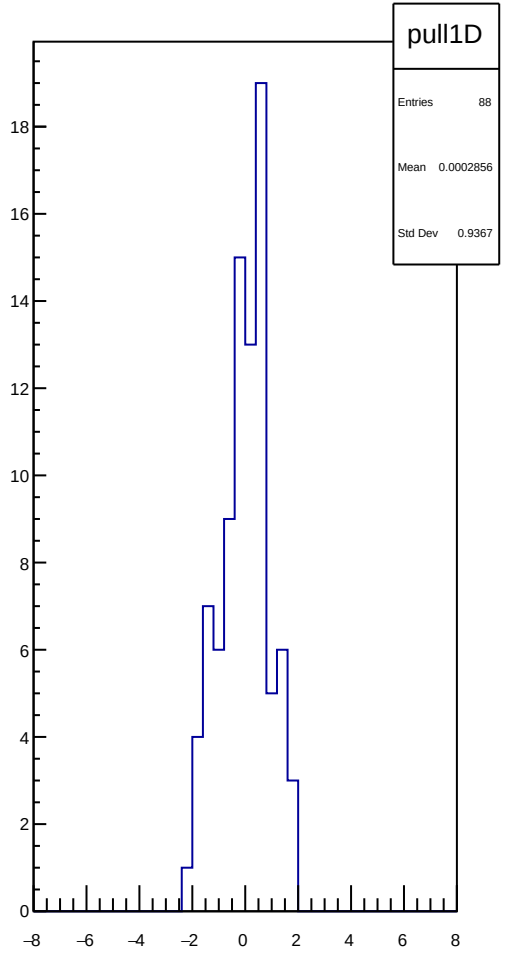

cor_asym_sam_48_avg_rms vs run
χ² / ndf 1.021e+04 / 87
p0 164.4 ± 0.1267
200
190
180
170
160
150
140

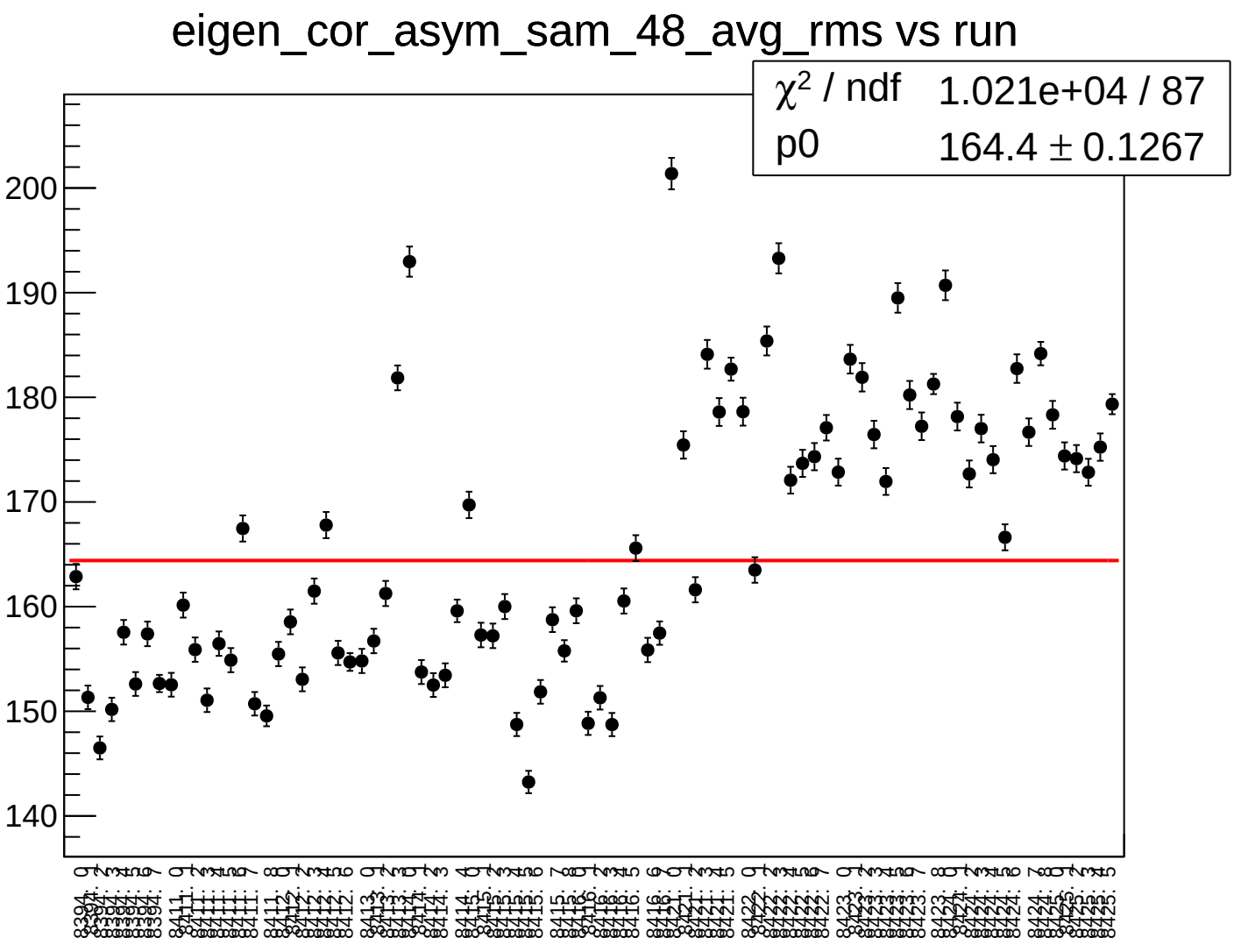

asym_sam_48_avg_cor_correction_mean vs run
×10^3
χ² / ndf 72.49 / 87
p0 −1.278e+04 ± 2709
pull
Entries 88
Mean −371.4
Std Dev 0

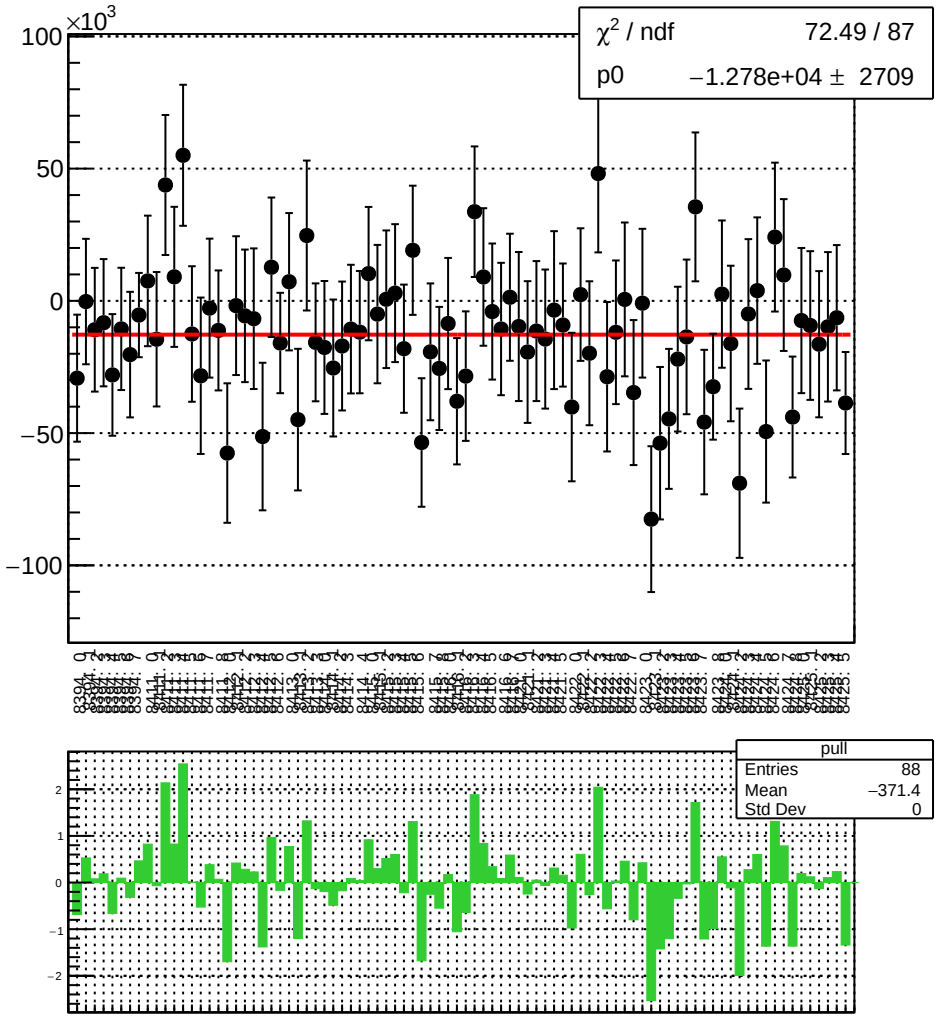

pull1D
Entries 88
Mean 0.00995
Std Dev 0.9075

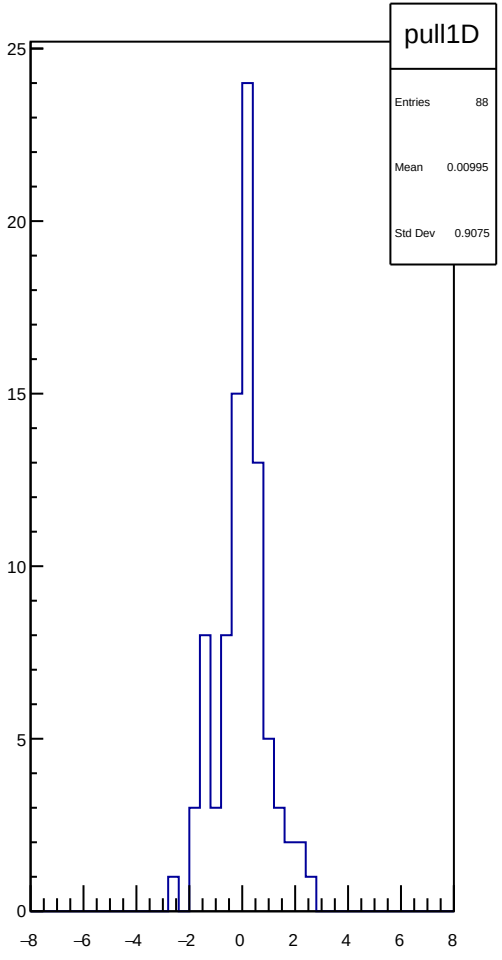

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 8077 / 87
p0 2486 ± 1.915
2900
2800
2700
2600
2500
2400
2300
2200
2100
2000

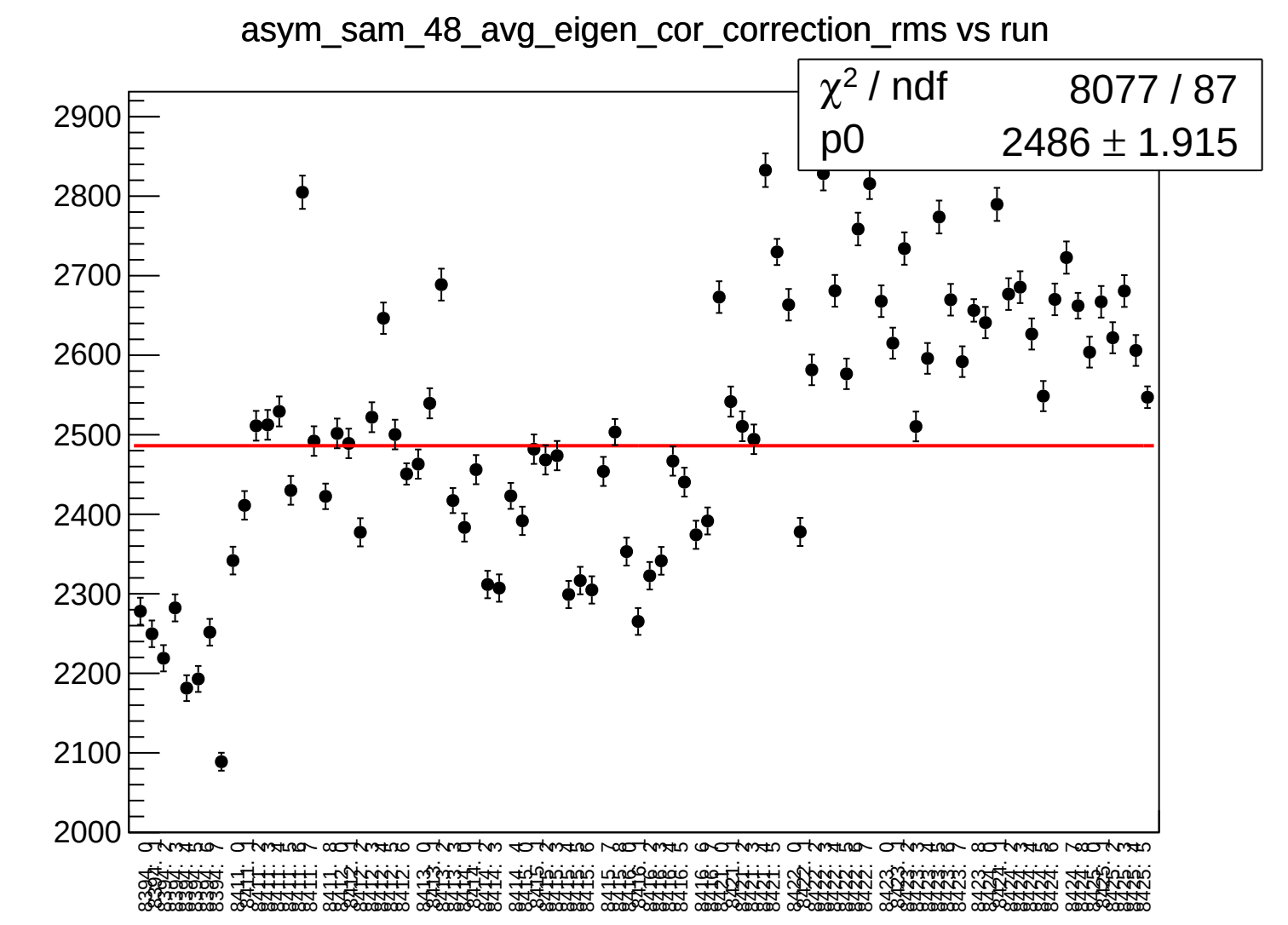

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 77.21 / 87
p0 740.6 ± 179.2
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 1.138e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

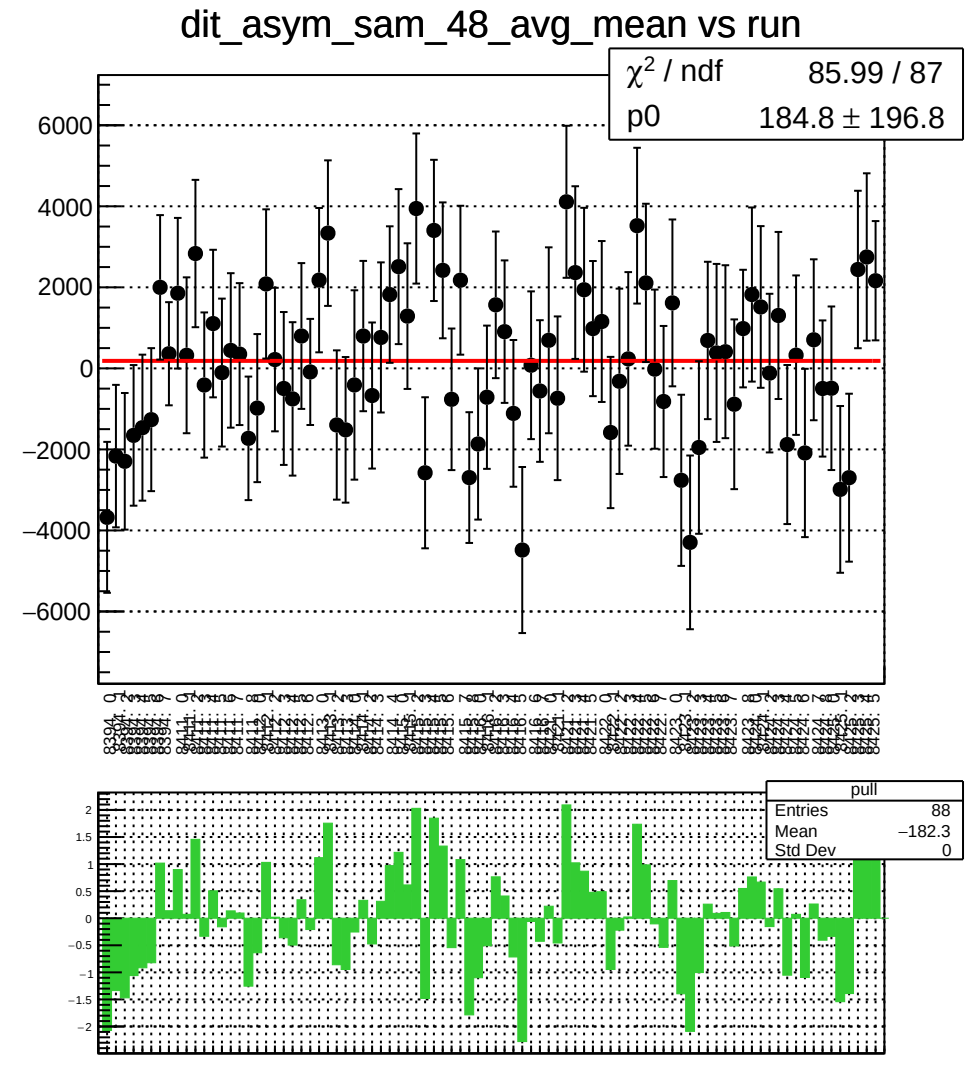

pull1D
Entries 88
Mean 0.0002856
Std Dev 0.9367
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

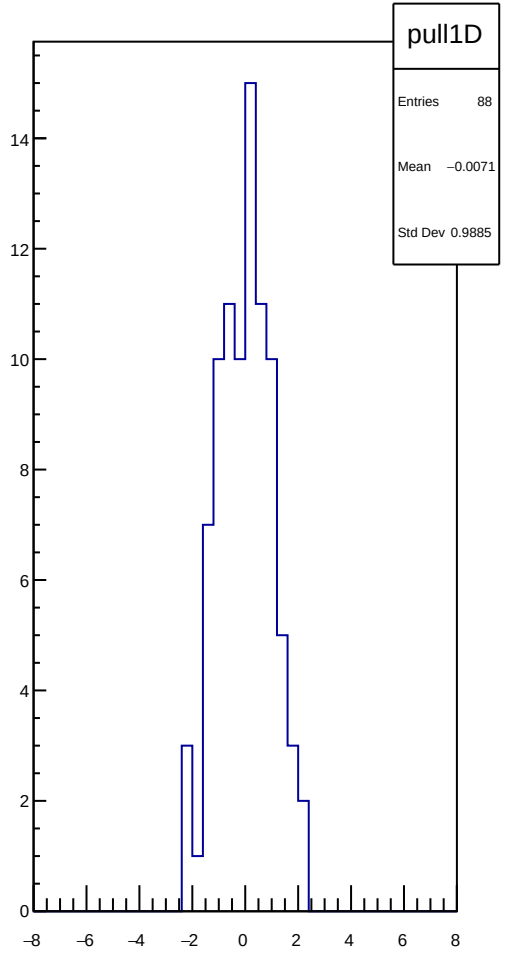

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 1.021e+04 / 87
p0 164.4 ± 0.1267
200
190
180
170
160
150
140

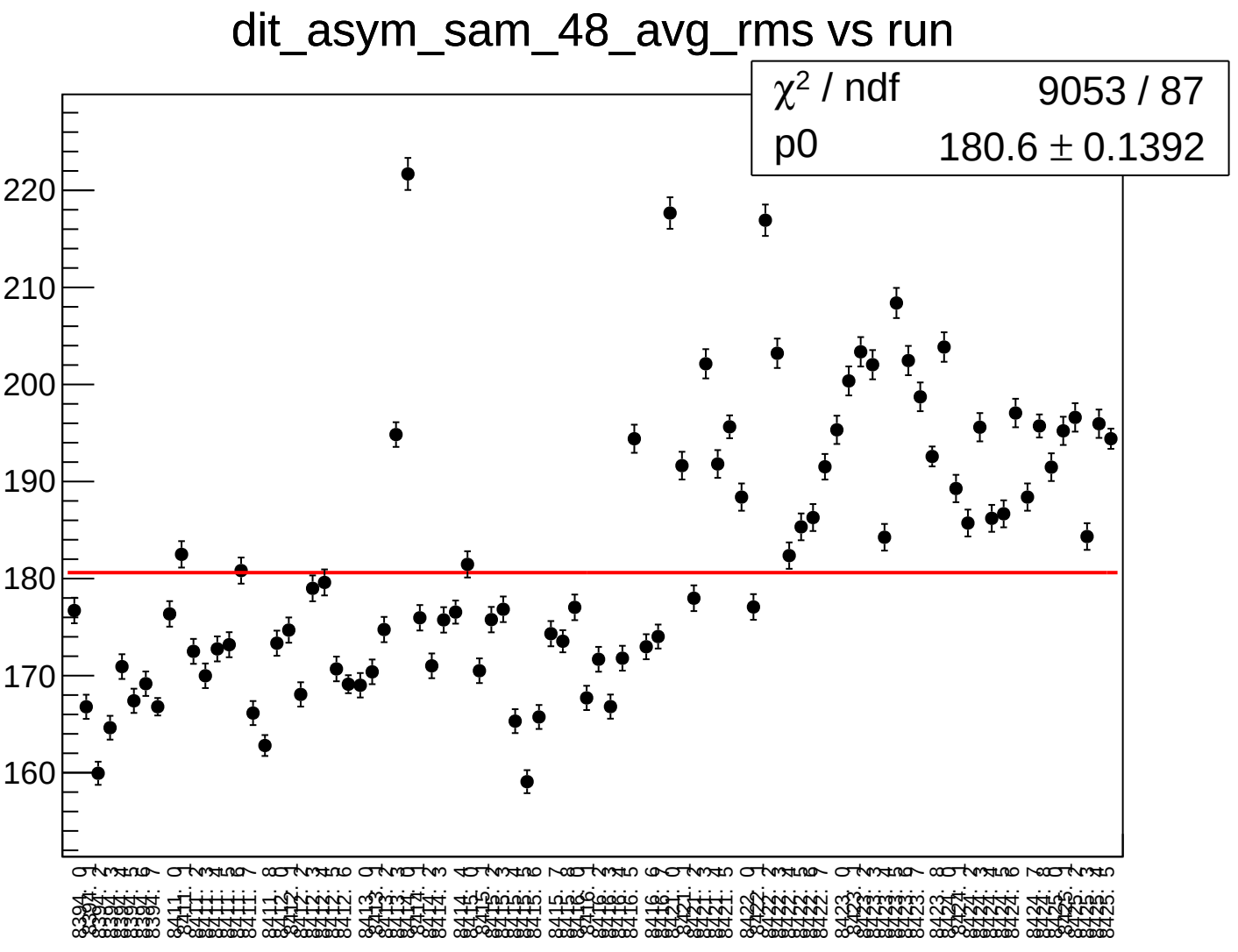

asym_sam_48_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 72.49 / 87
p0 −1.278e+04 ± 2709
pull
Entries 88
Mean −371.4
Std Dev 0

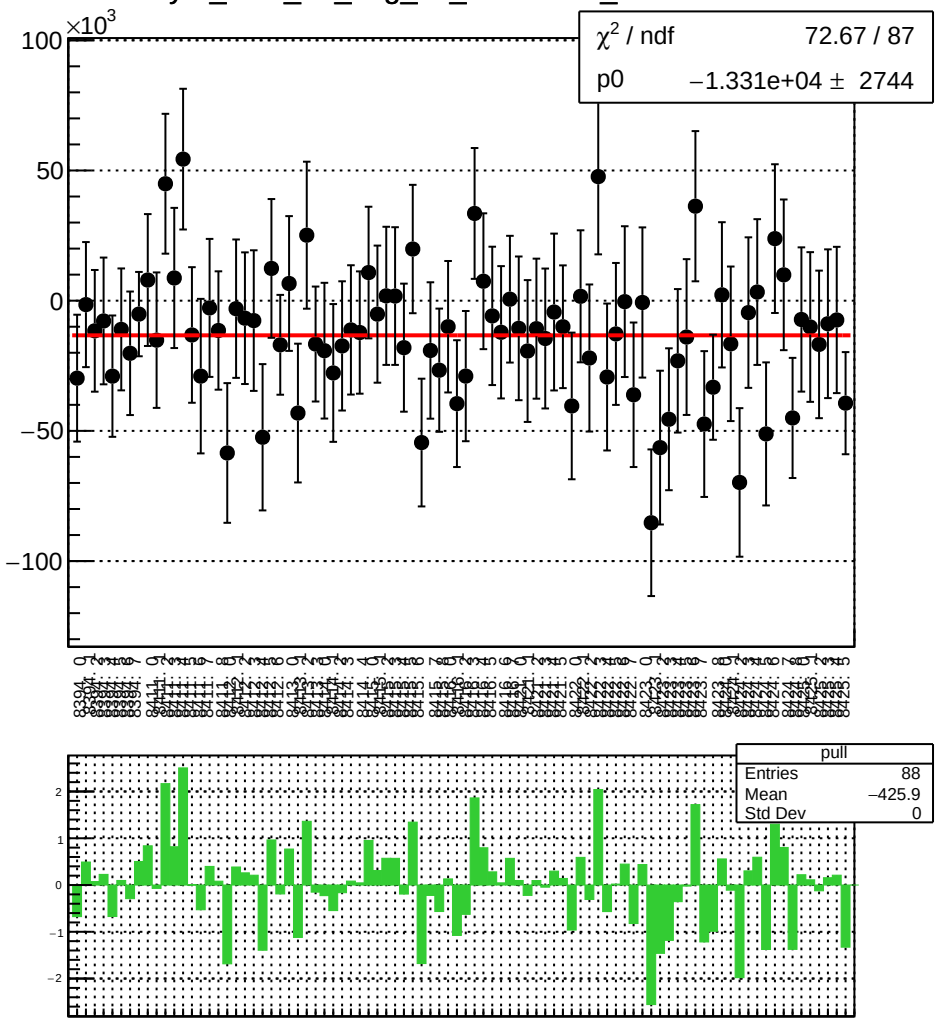

pull1D
Entries 88
Mean 0.00995
Std Dev 0.9075

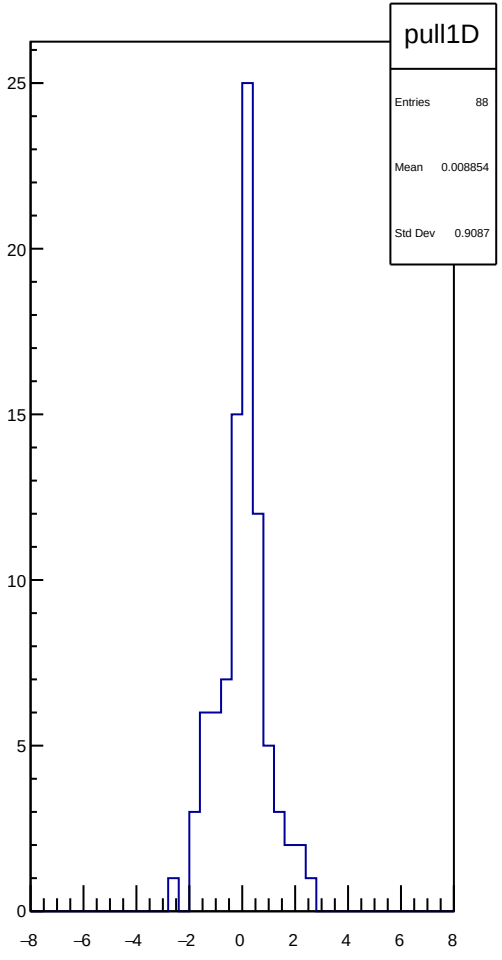

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 8077 / 87
p0 2486 ± 1.915
2900
2800
2700
2600
2500
2400
2300
2200
2100
2000

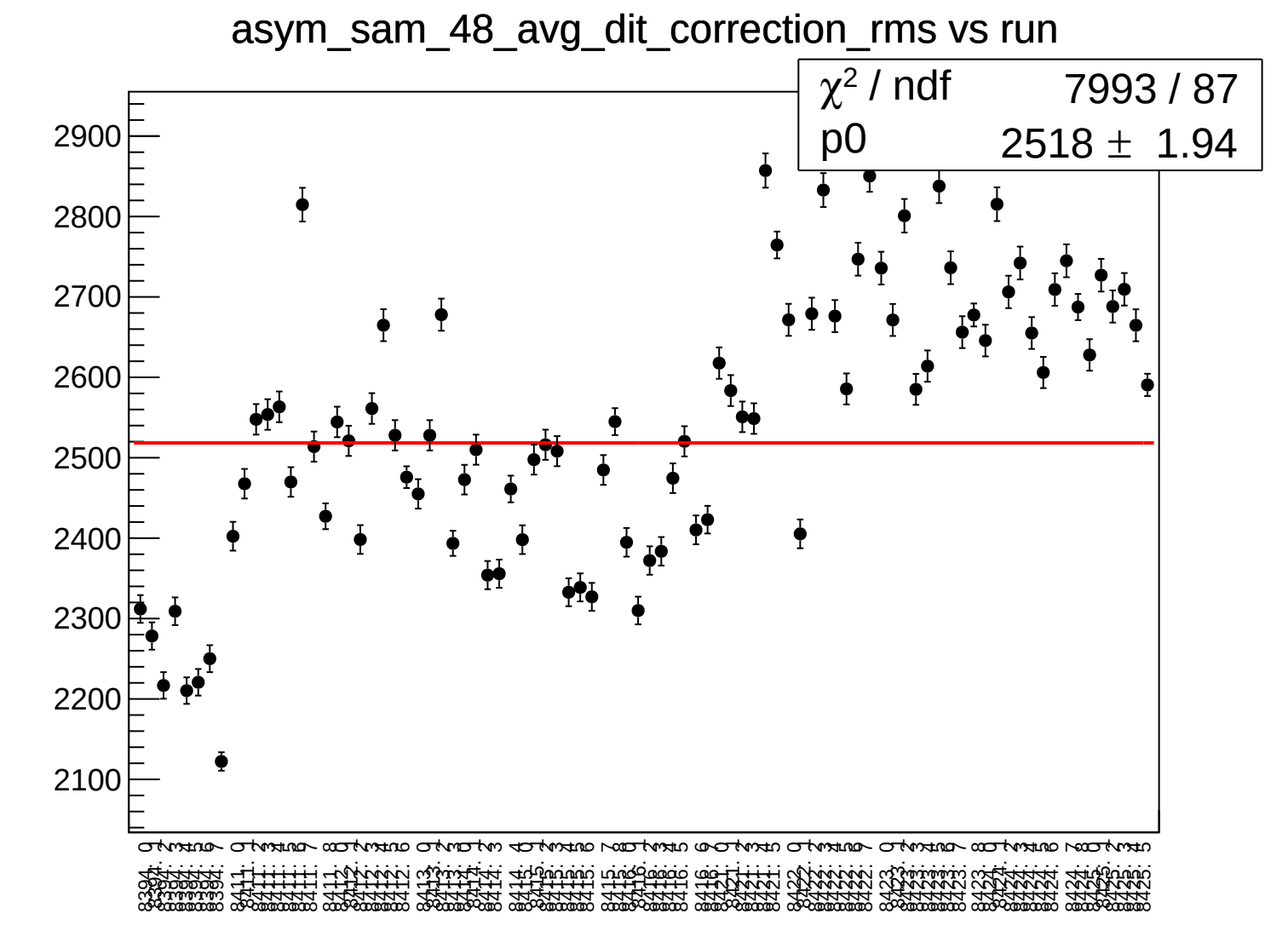

dit_asym_sam_48_avg_mean vs run
χ^2 / ndf 85.99 / 87
p0 184.8 ± 196.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −182.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

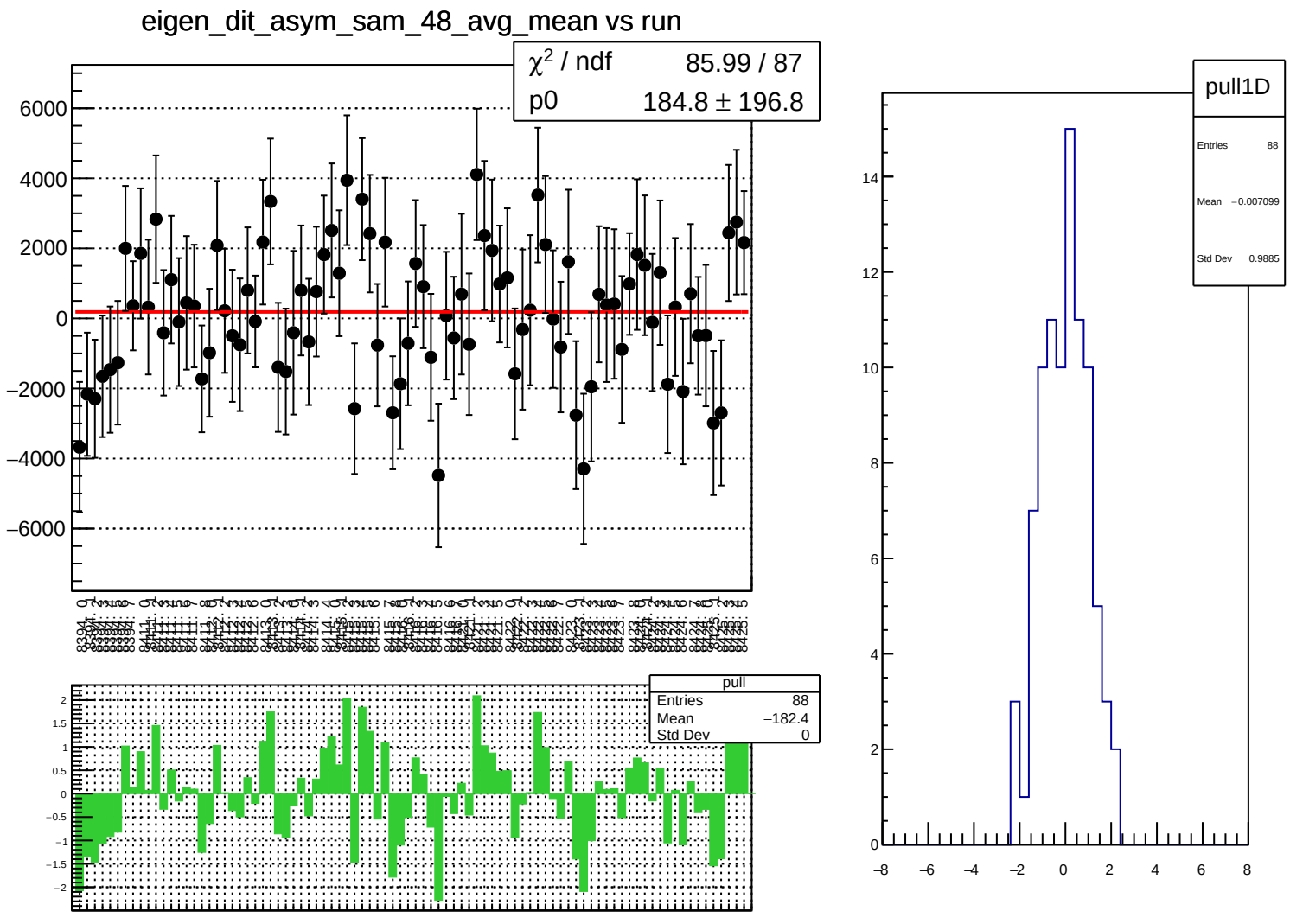

pull1D
Entries 88
Mean −0.0071
Std Dev 0.9885
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

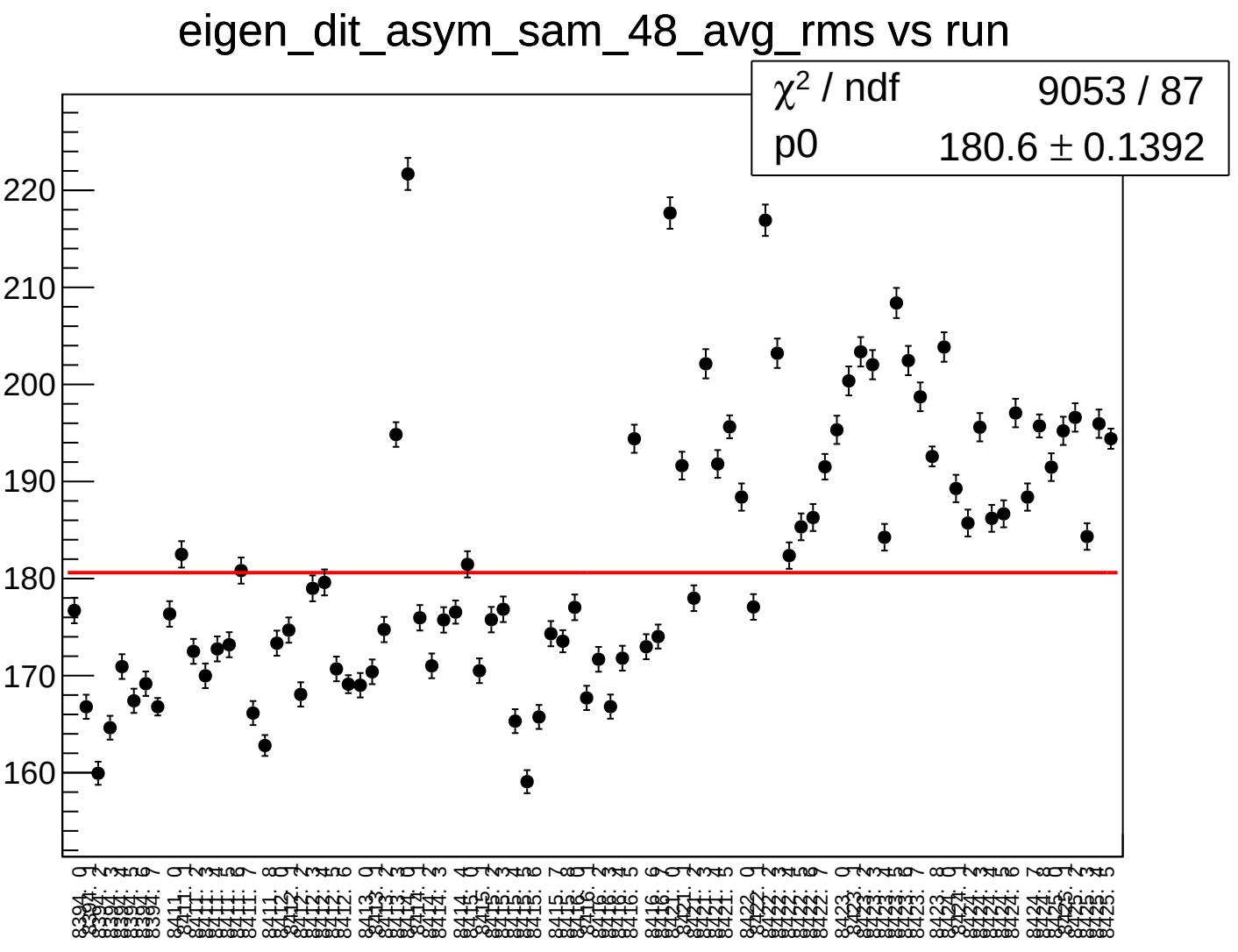

dit_asym_sam_48_avg_rms vs run
χ^2 / ndf 9053 / 87
p0 180.6 ± 0.1392
220
210
200
190
180
170
160

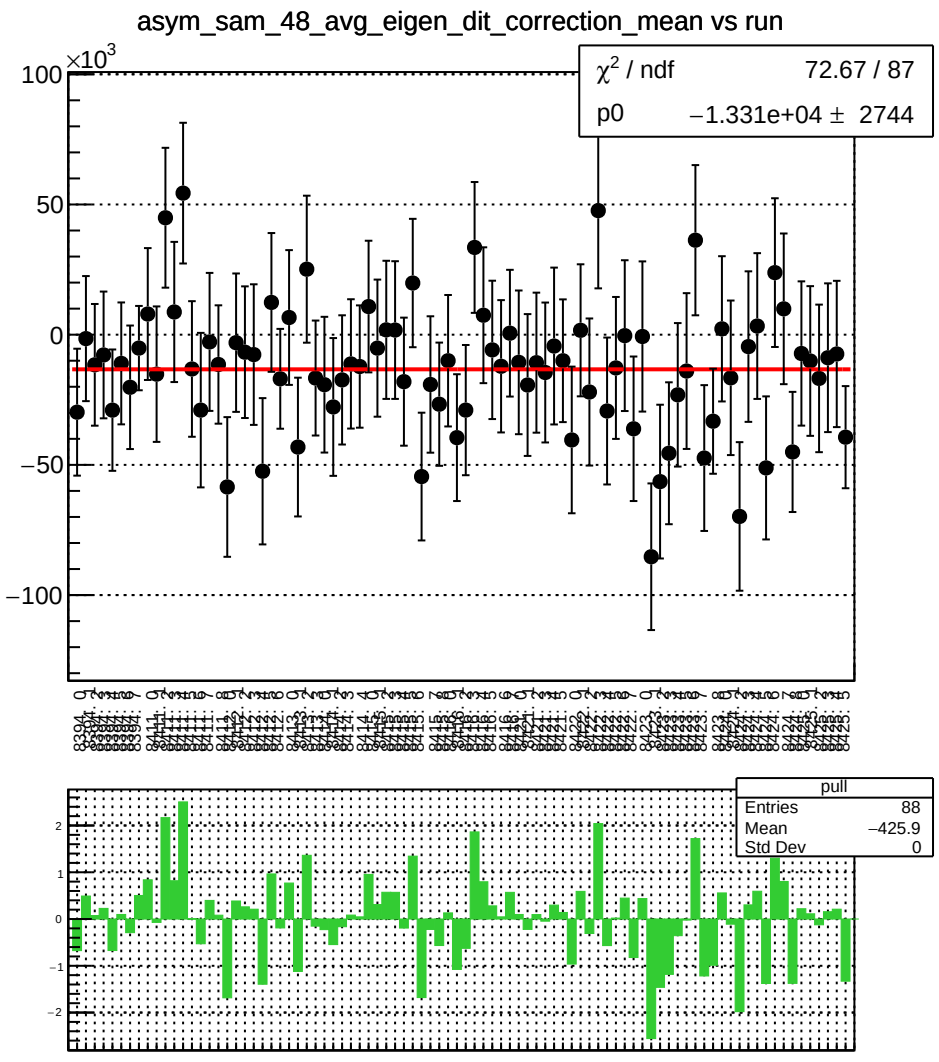

asym_sam_48_avg_dit_correction_mean vs run
×10^3
χ² / ndf 72.67 / 87
p0 −1.331e+04 ± 2744
pull
Entries 88
Mean −425.9
Std Dev 0

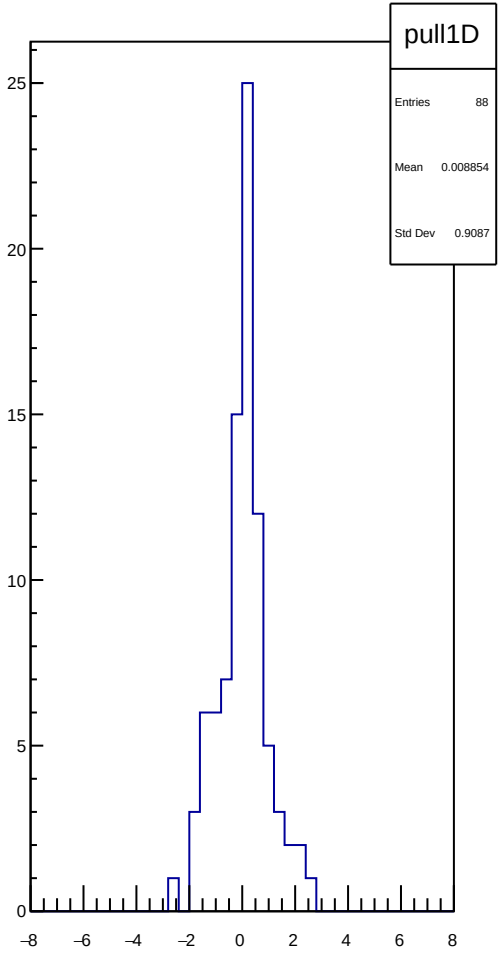

pull1D
Entries 88
Mean 0.008854
Std Dev 0.9087

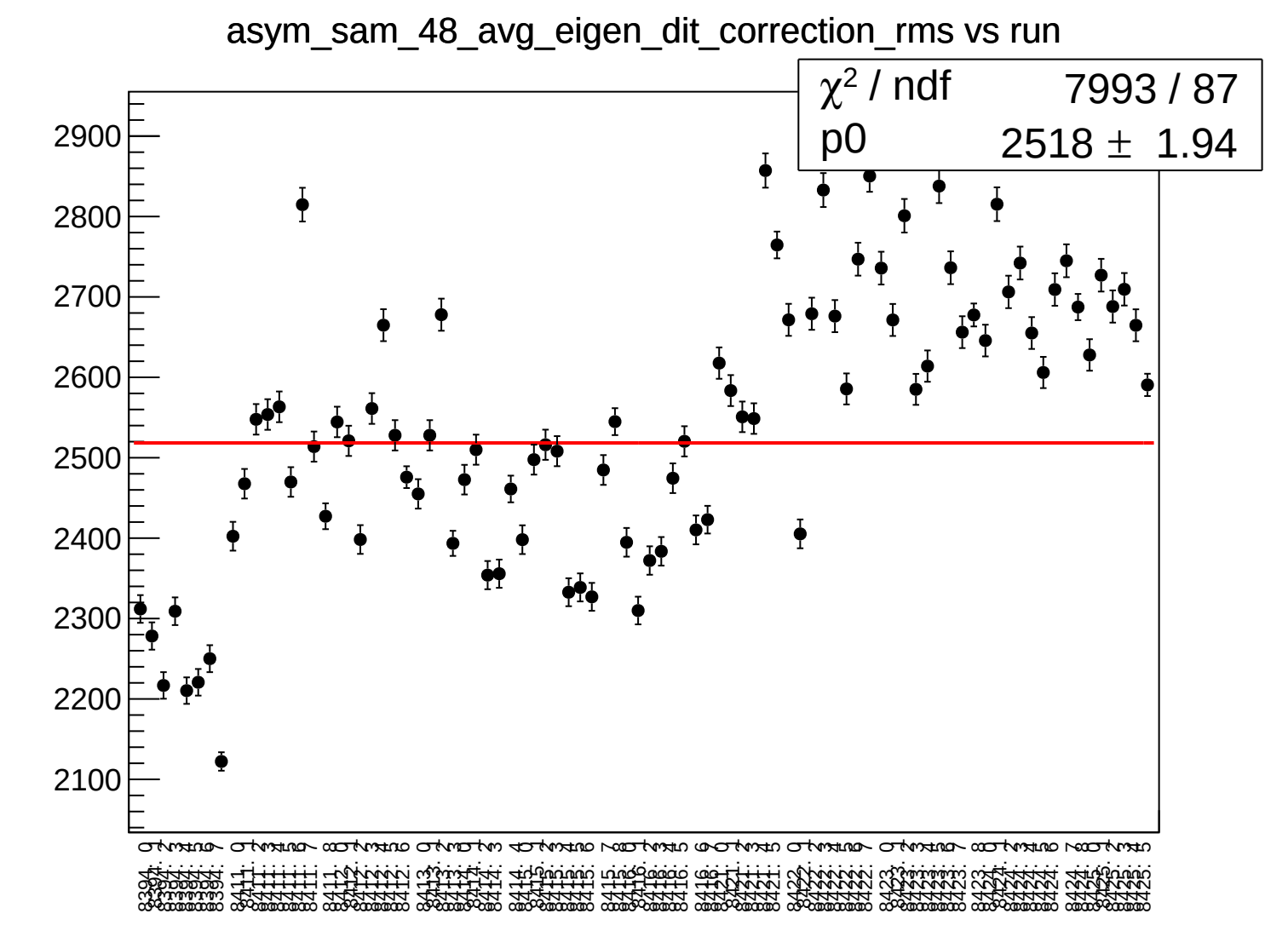

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 7993 / 87
p0 2518 ± 1.94
2900
2800
2700
2600
2500
2400
2300
2200
2100

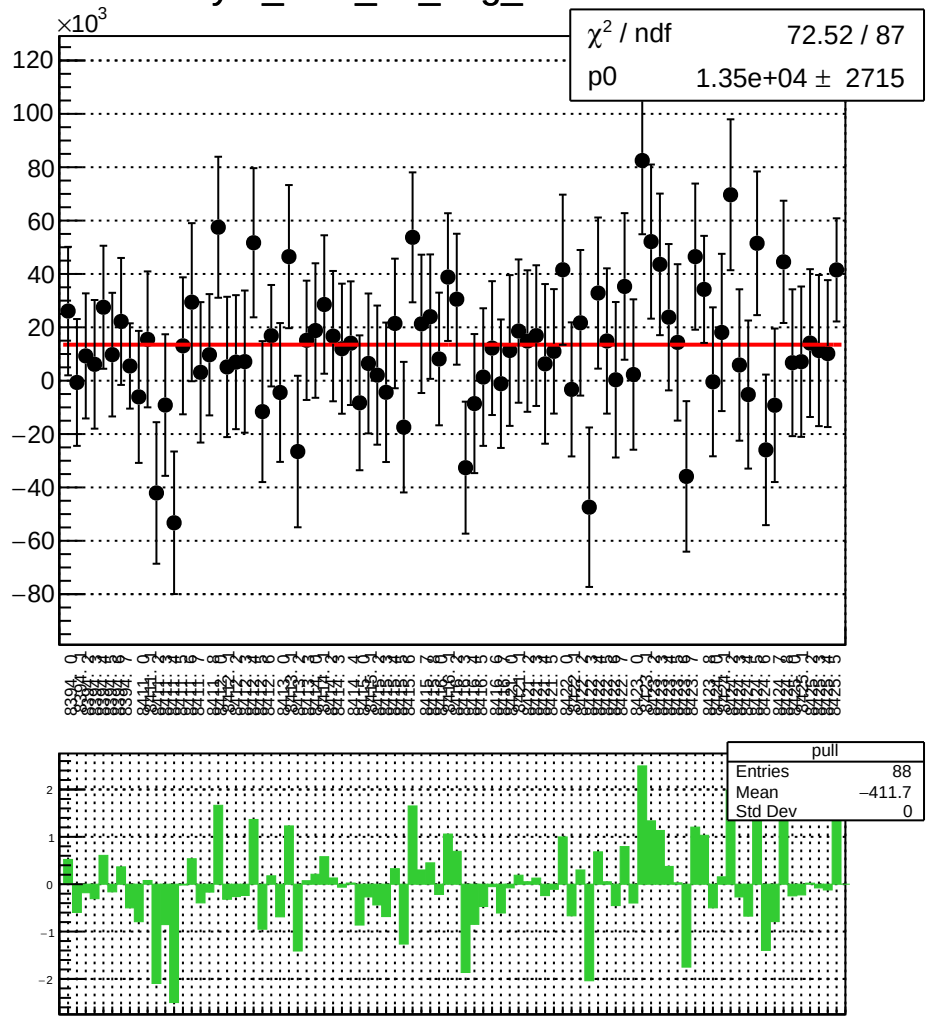

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 85.99 / 87
p0 184.8 ± 196.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −182.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.007099
Std Dev 0.9885
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

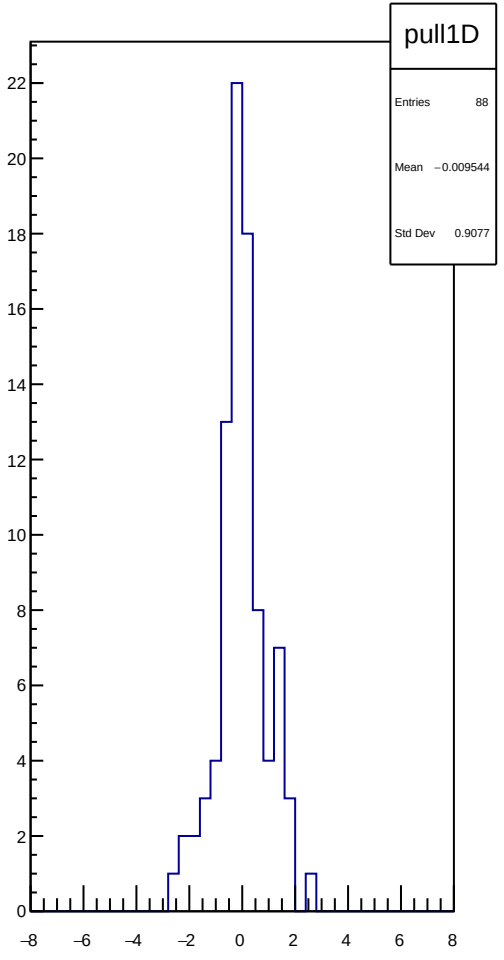

eigen_dit_asym_sam_48_avg_rms vs run
χ^2 / ndf 9053 / 87
p0 180.6 ± 0.1392
220
210
200
190
180
170
160

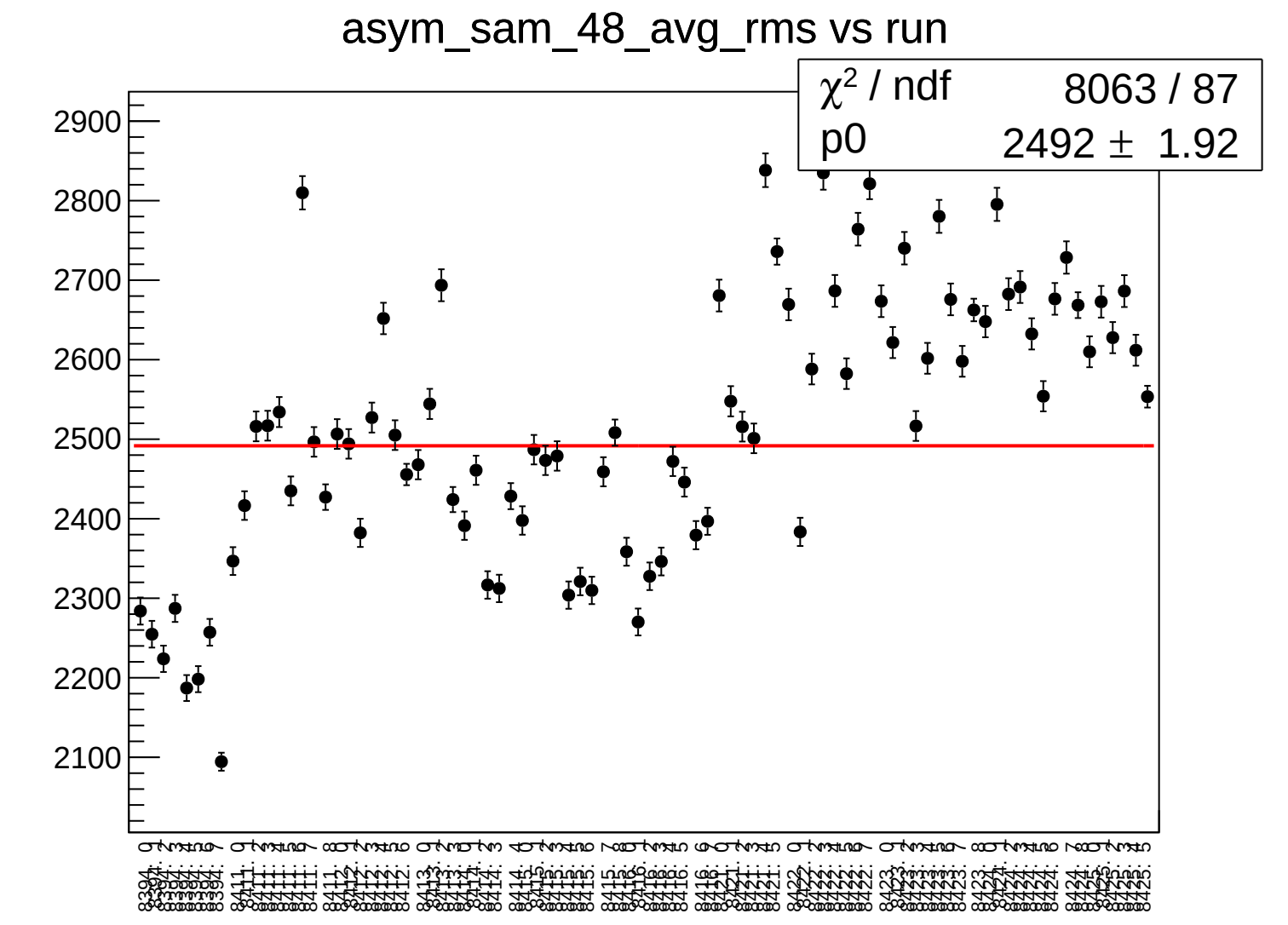

asym_sam_48_avg_eigen_dit_correction_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 72.67 / 87
p0 −1.331e+04 ± 2744
pull
Entries 88
Mean −425.9
Std Dev 0
2
1
0
−1
−2

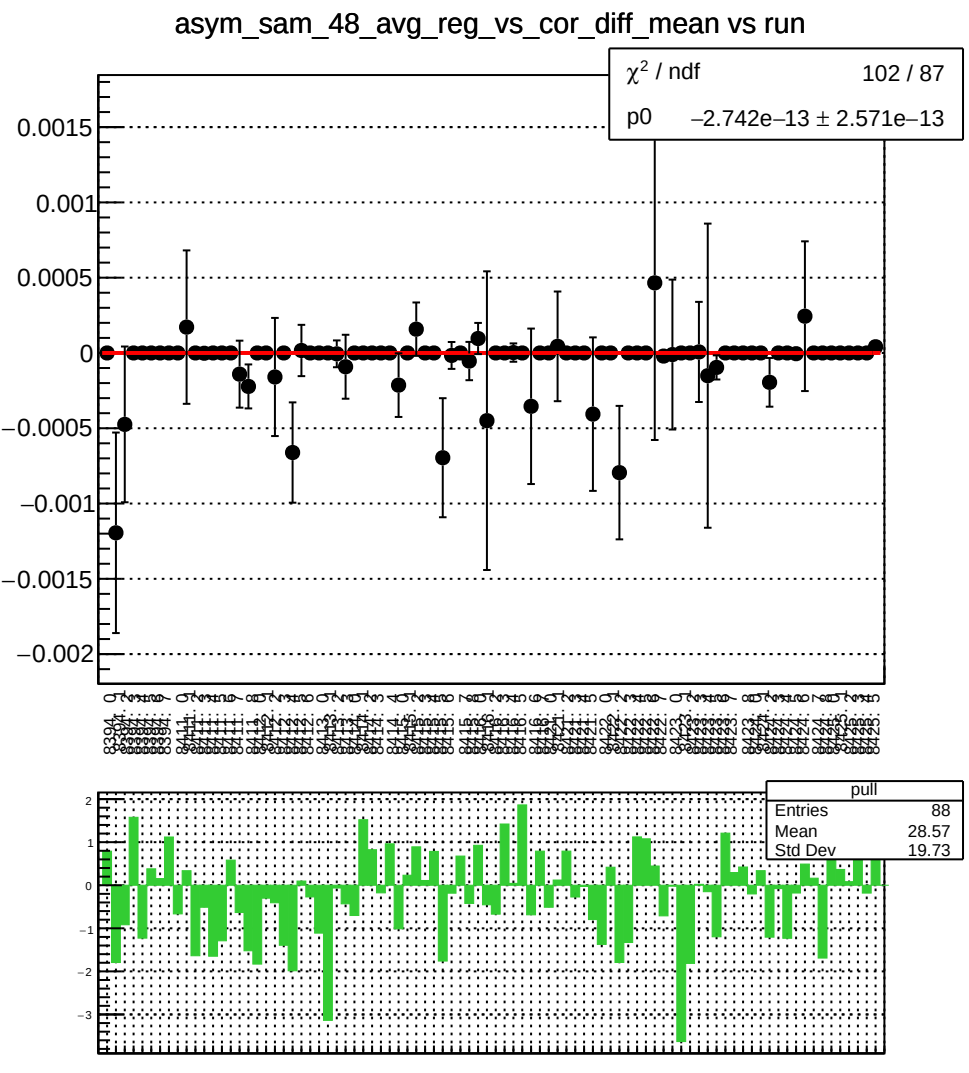

pull1D
Entries 88
Mean 0.008854
Std Dev 0.9087
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

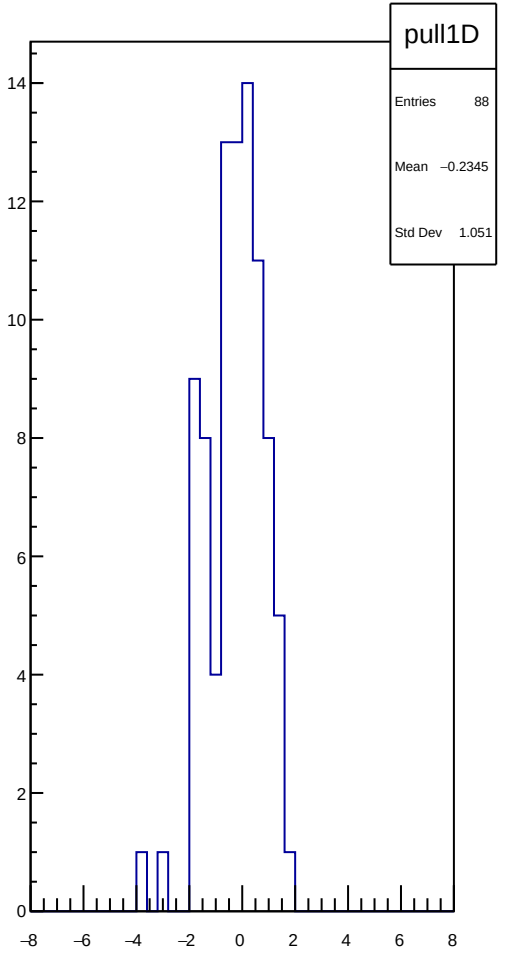

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 7993 / 87
p0 2518 ± 1.94
2900
2800
2700
2600
2500
2400
2300
2200
2100

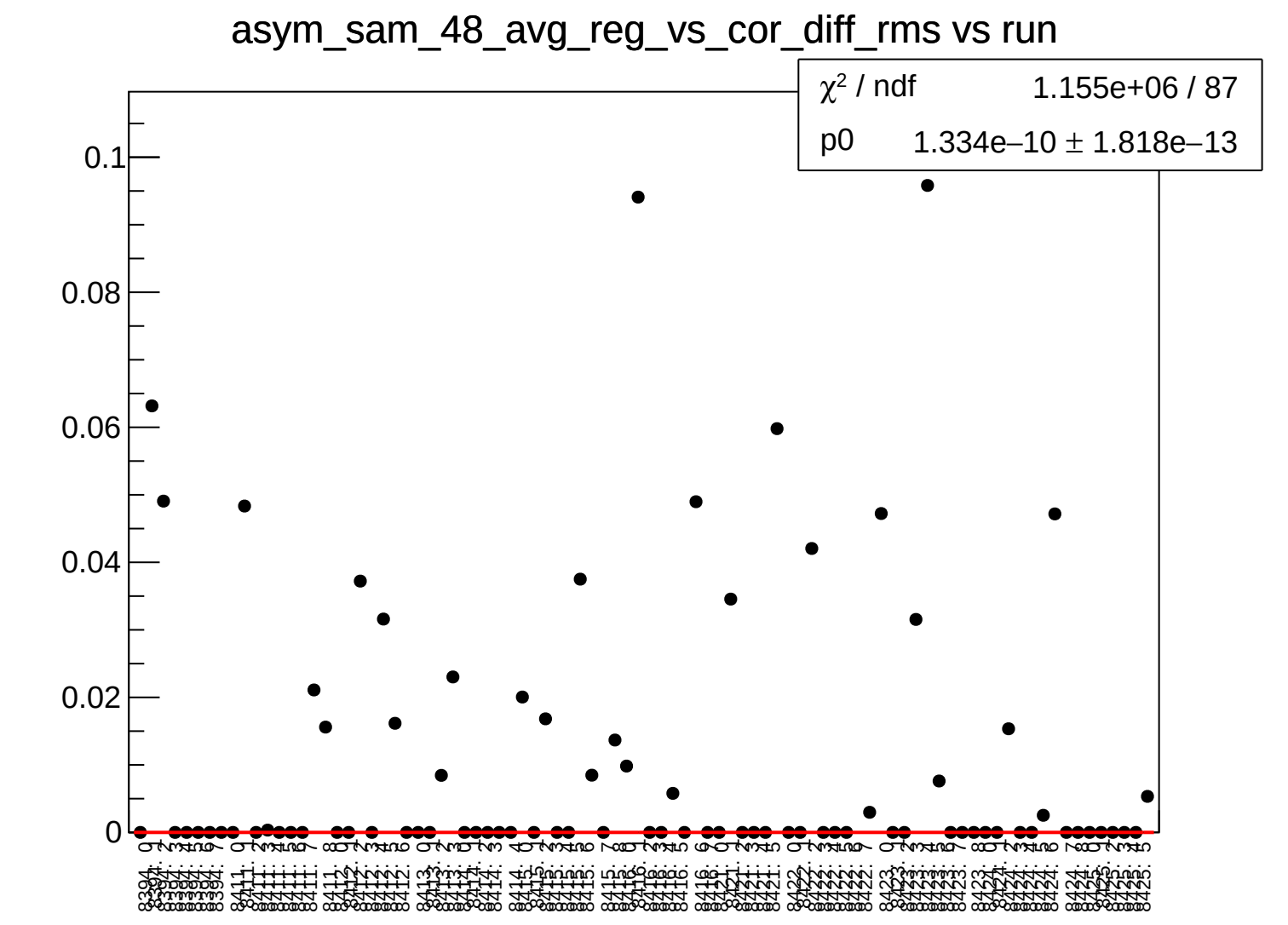

asym_sam_48_avg_mean vs run
×10^3
χ² / ndf 72.52 / 87
p0 1.35e+04 ± 2715
pull
Entries 88
Mean −411.7
Std Dev 0

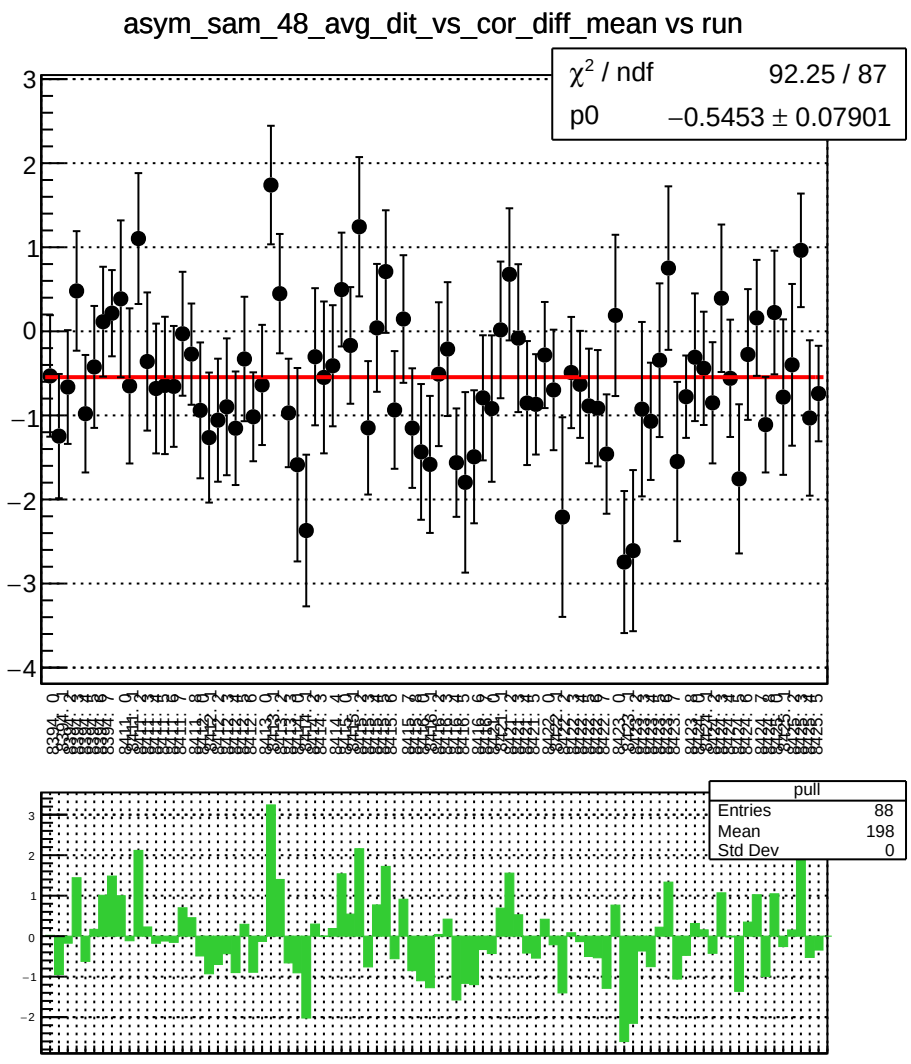

pull1D
Entries 88
Mean −0.009544
Std Dev 0.9077

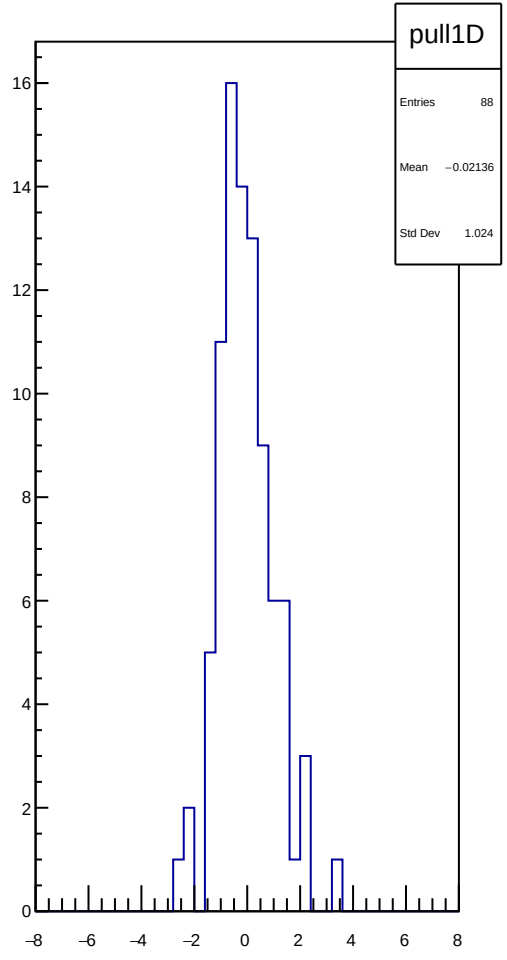

asym_sam_48_avg_rms vs run
χ² / ndf 8063 / 87
p0 2492 ± 1.92
2900
2800
2700
2600
2500
2400
2300
2200
2100

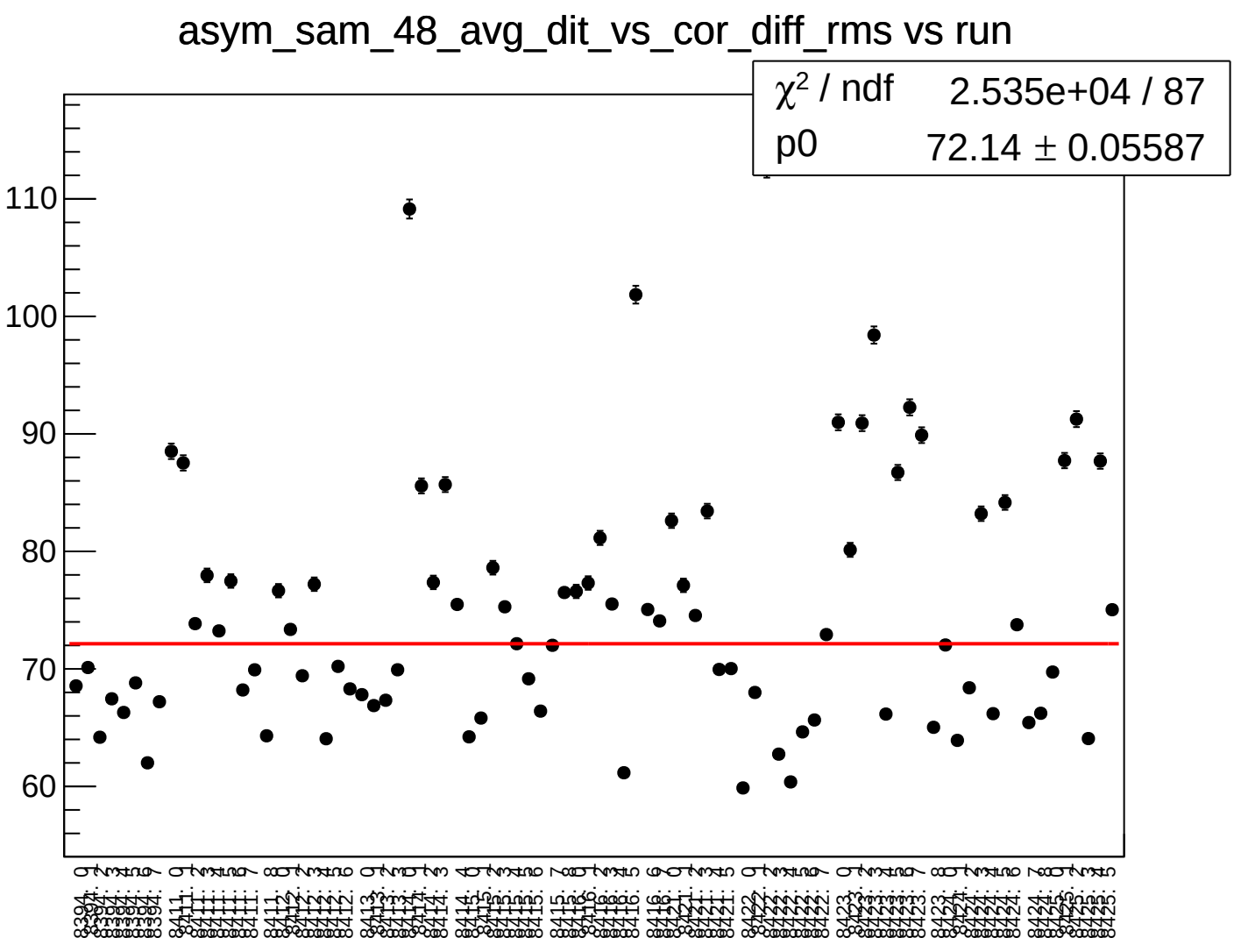

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 102 / 87
p0 −2.742e−13 ± 2.571e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 88
Mean 28.57
Std Dev 19.73
2
1
0
−1
−2
−3

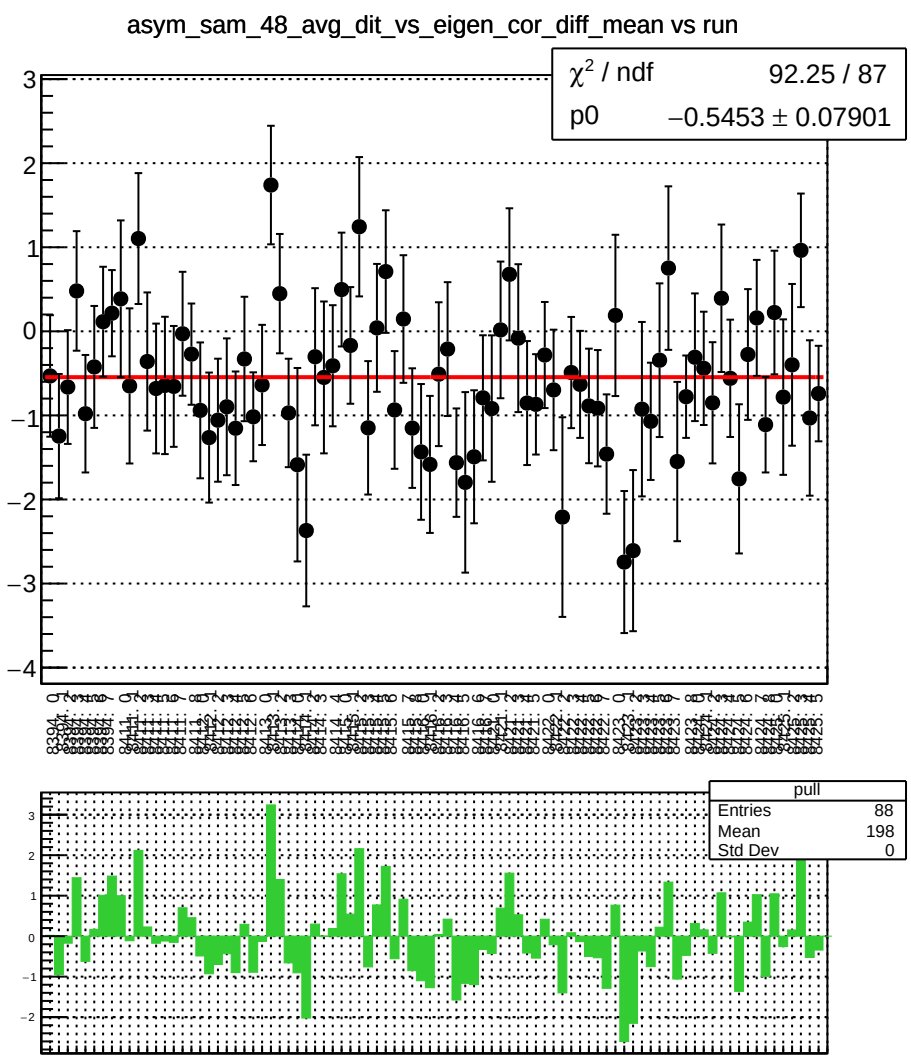

pull1D
Entries 88
Mean −0.2345
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

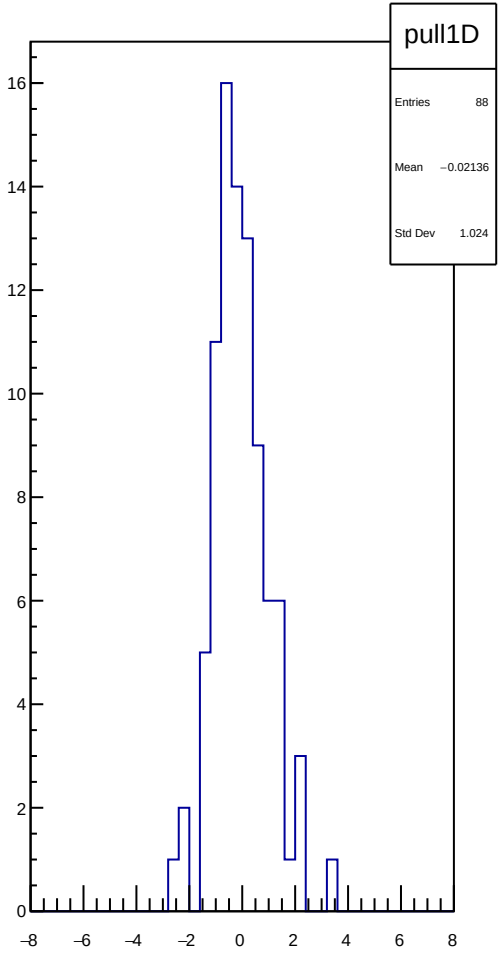

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.155e+06 / 87
p0 1.334e−10 ± 1.818e−13
0.1
0.08
0.06
0.04
0.02
0

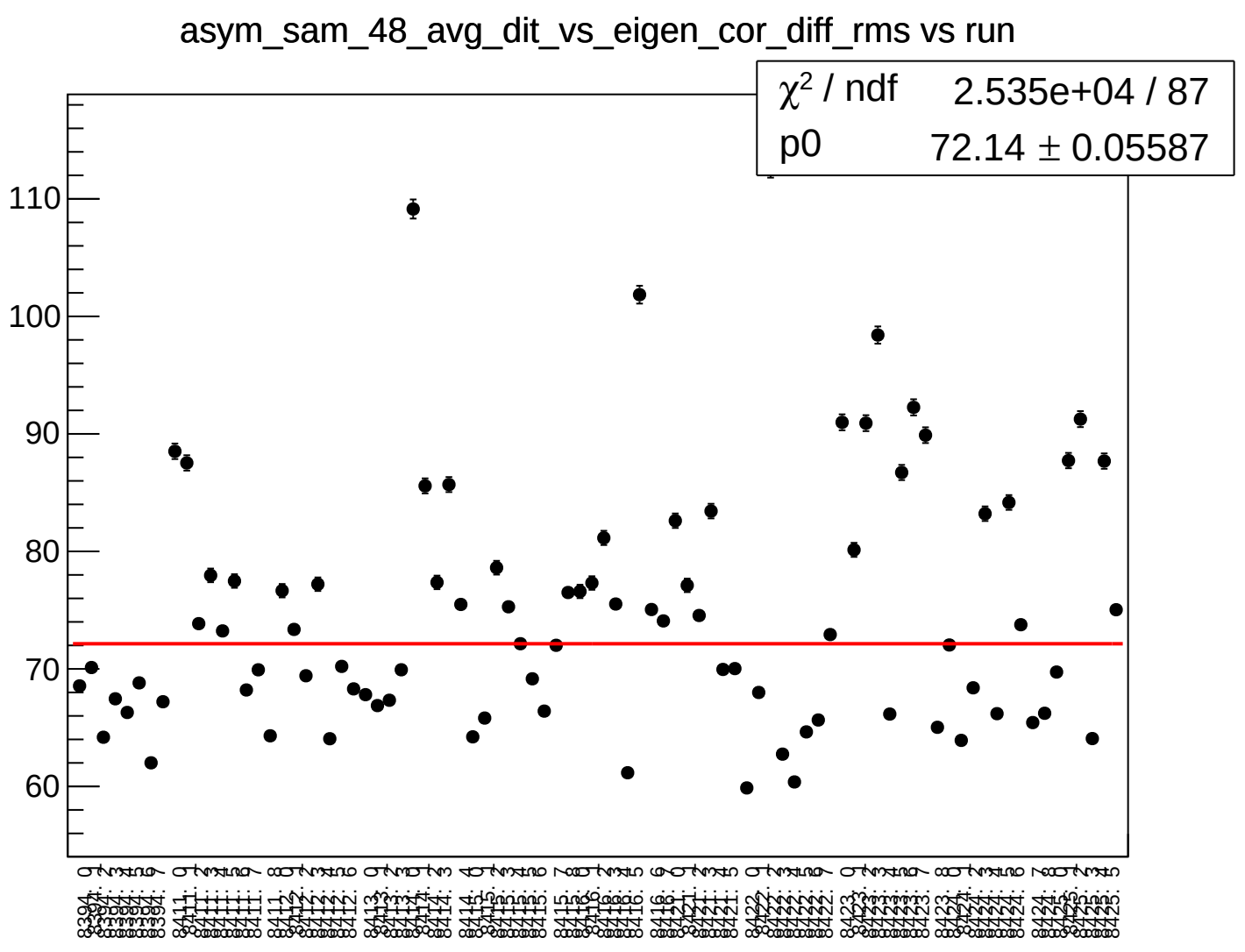

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.25 / 87
p0 −0.5453 ± 0.07901
pull
Entries 88
Mean 198
Std Dev 0

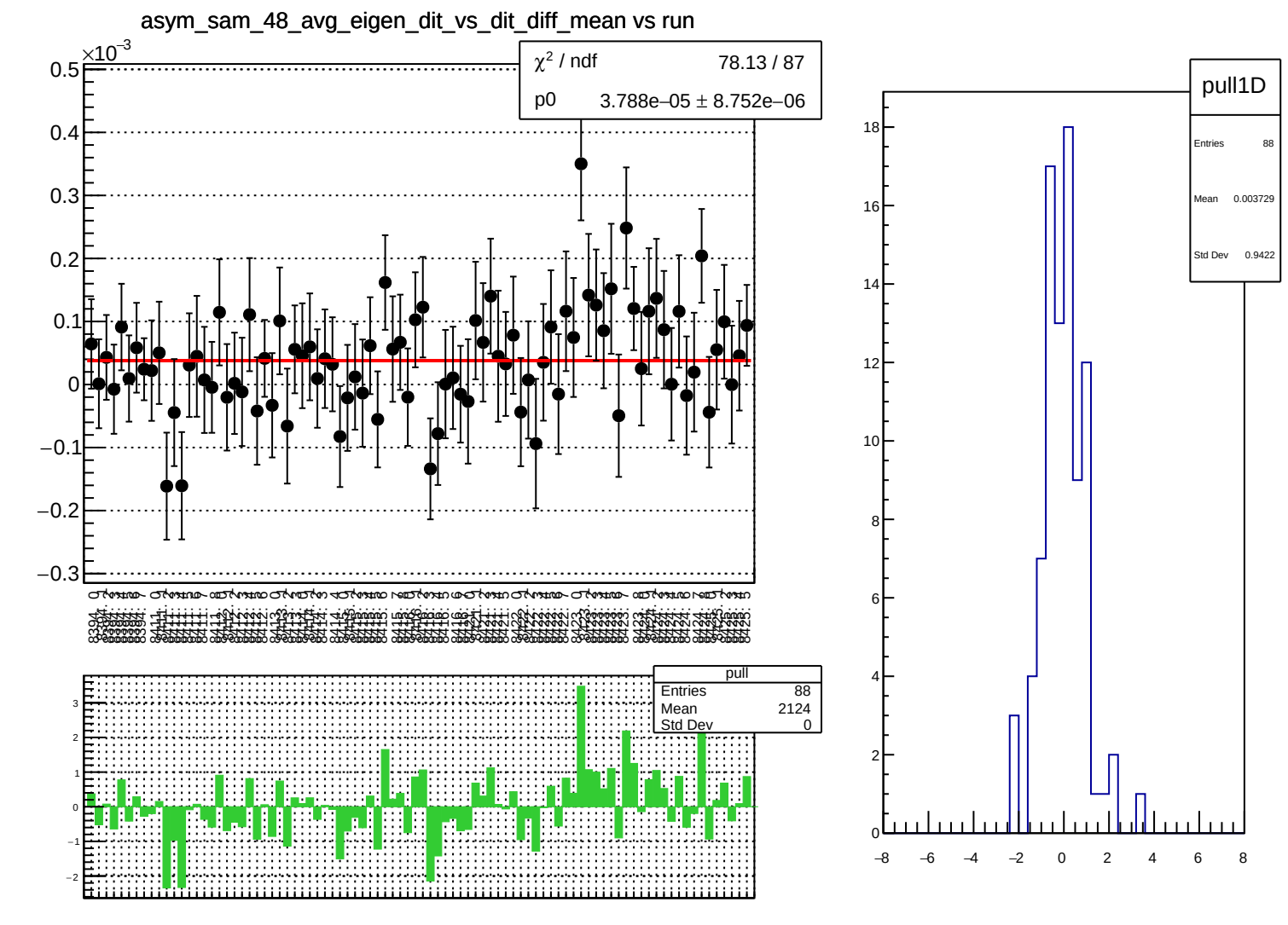

pull1D
Entries 88
Mean −0.02136
Std Dev 1.024

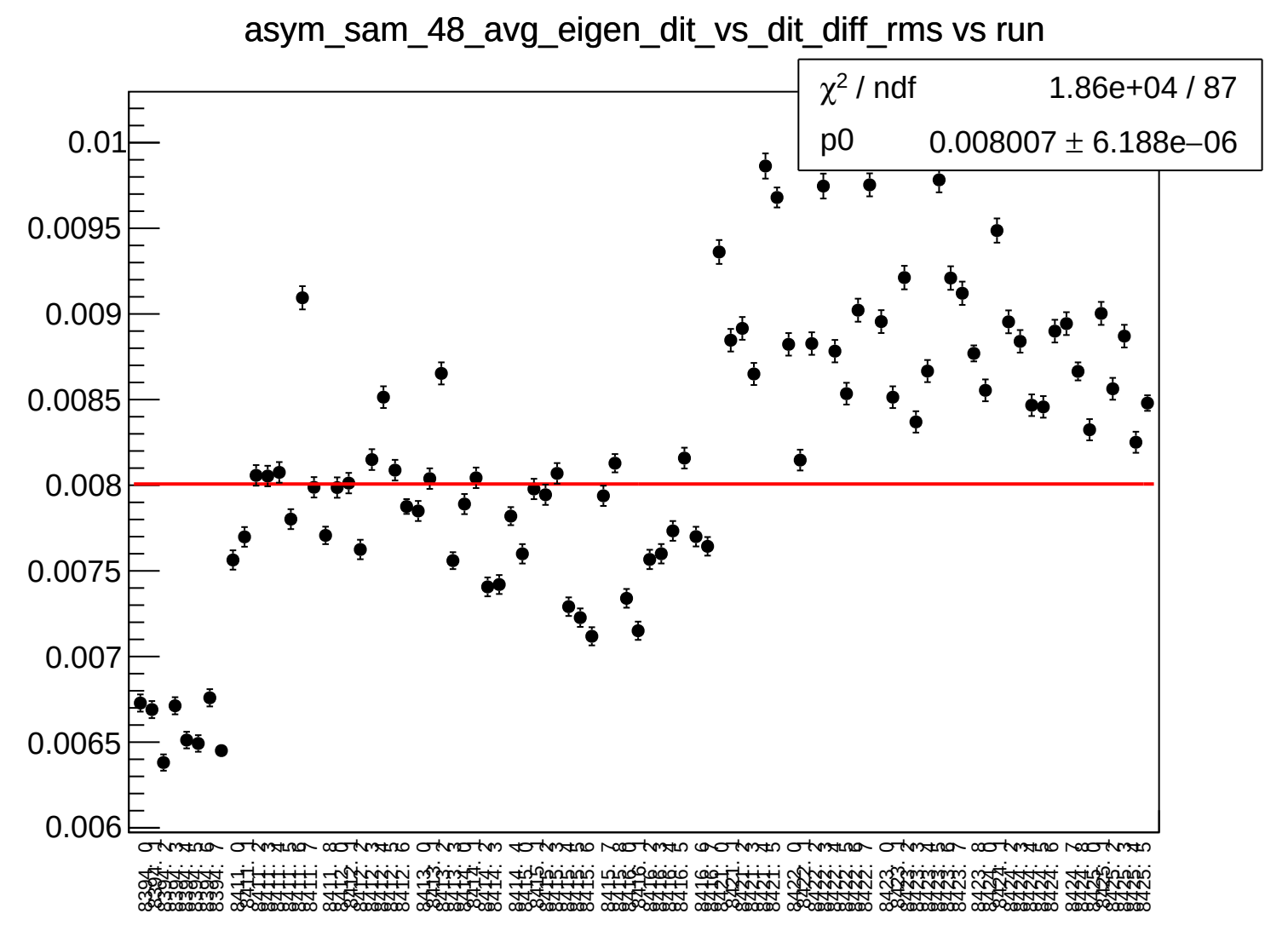

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.535e+04 / 87
p0 72.14 ± 0.05587
110
100
90
80
70
60

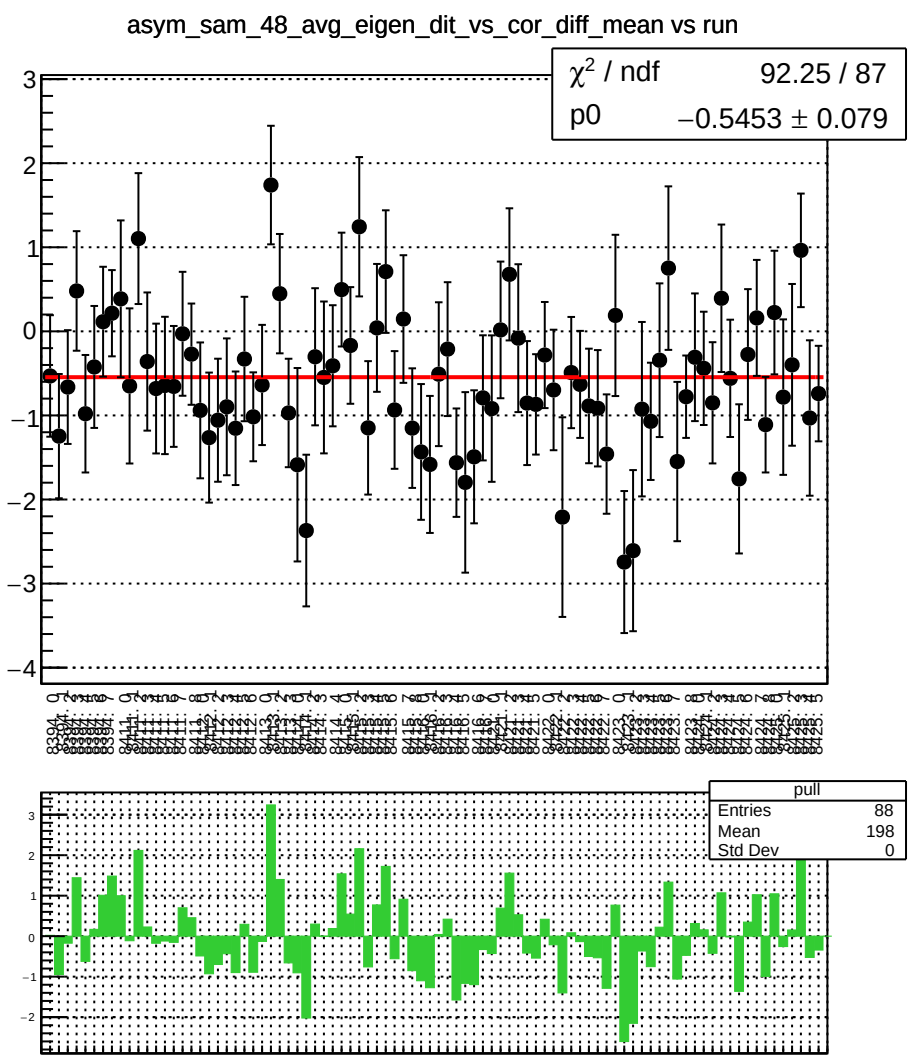

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.25 / 87
p0 −0.5453 ± 0.07901
pull
Entries 88
Mean 198
Std Dev 0

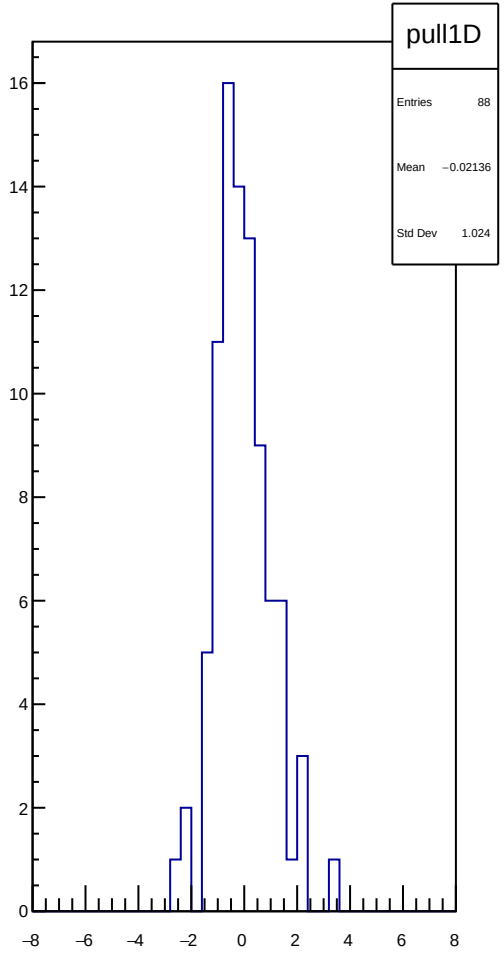

pull1D
Entries 88
Mean −0.02136
Std Dev 1.024

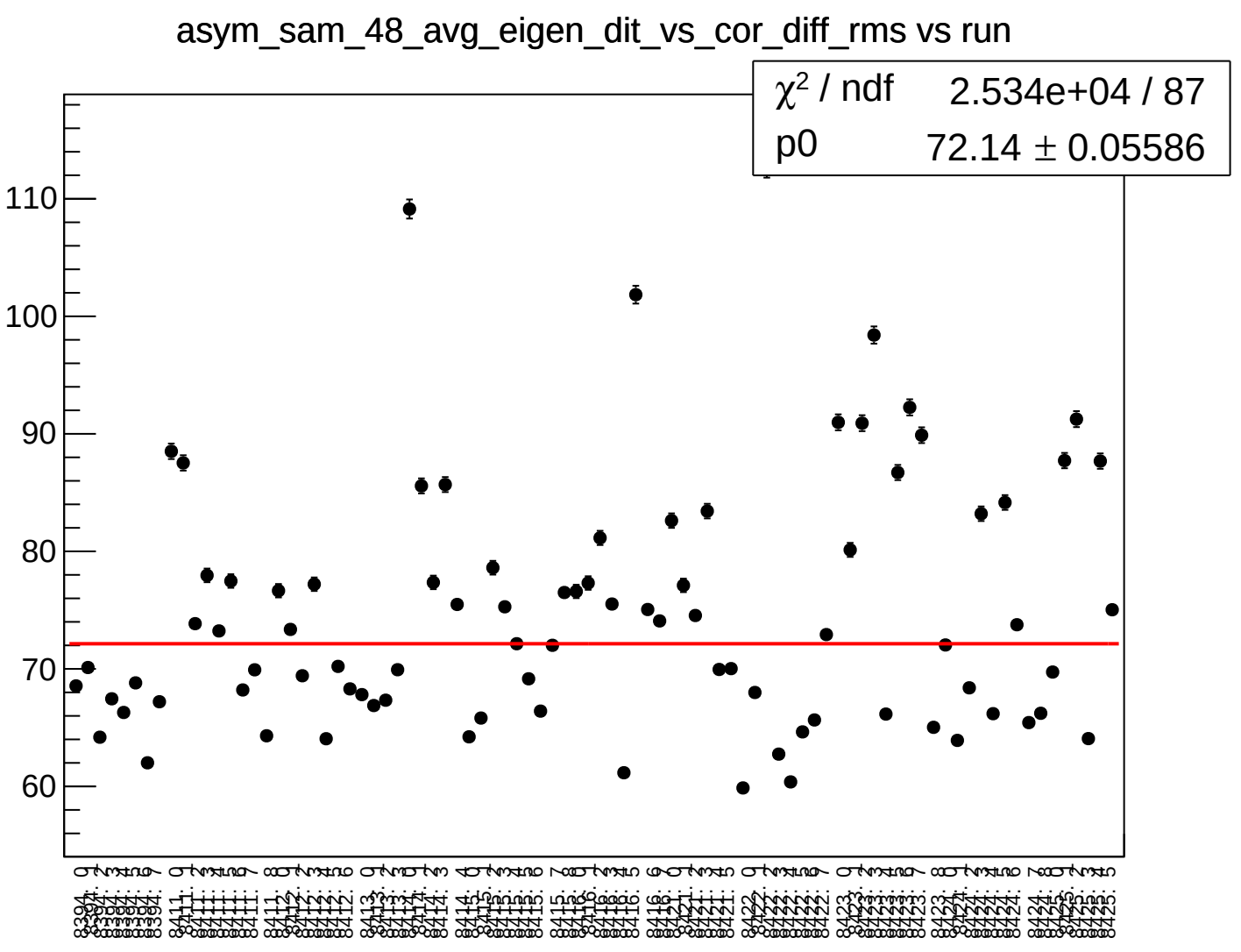

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.535e+04 / 87
p0 72.14 ± 0.05587
110
100
90
80
70
60

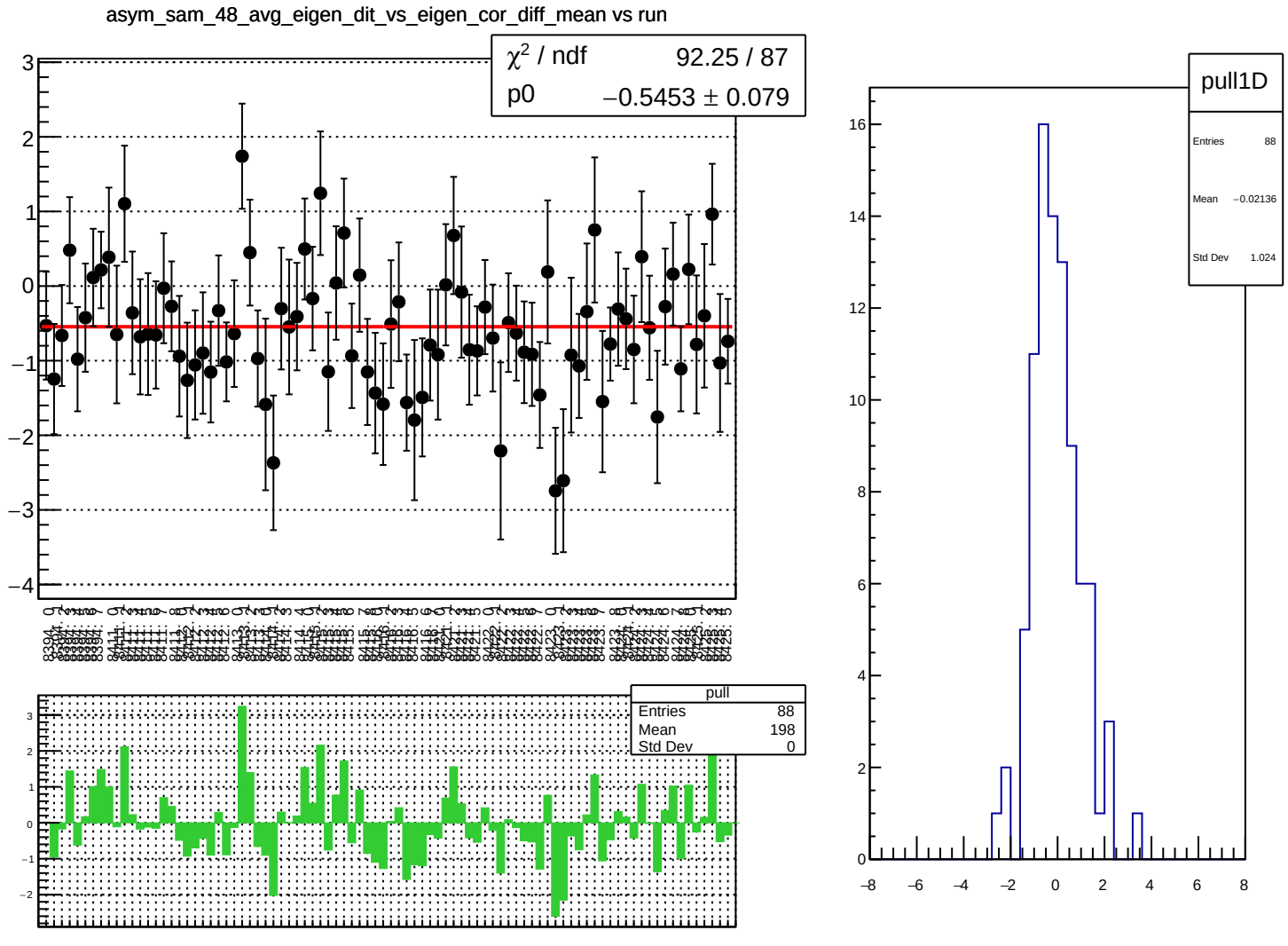

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.13 / 87
p0 3.788e−05 ± 8.752e−06
pull
Entries 88
Mean 2124
Std Dev 0
pull1D
Entries 88
Mean 0.003729
Std Dev 0.9422

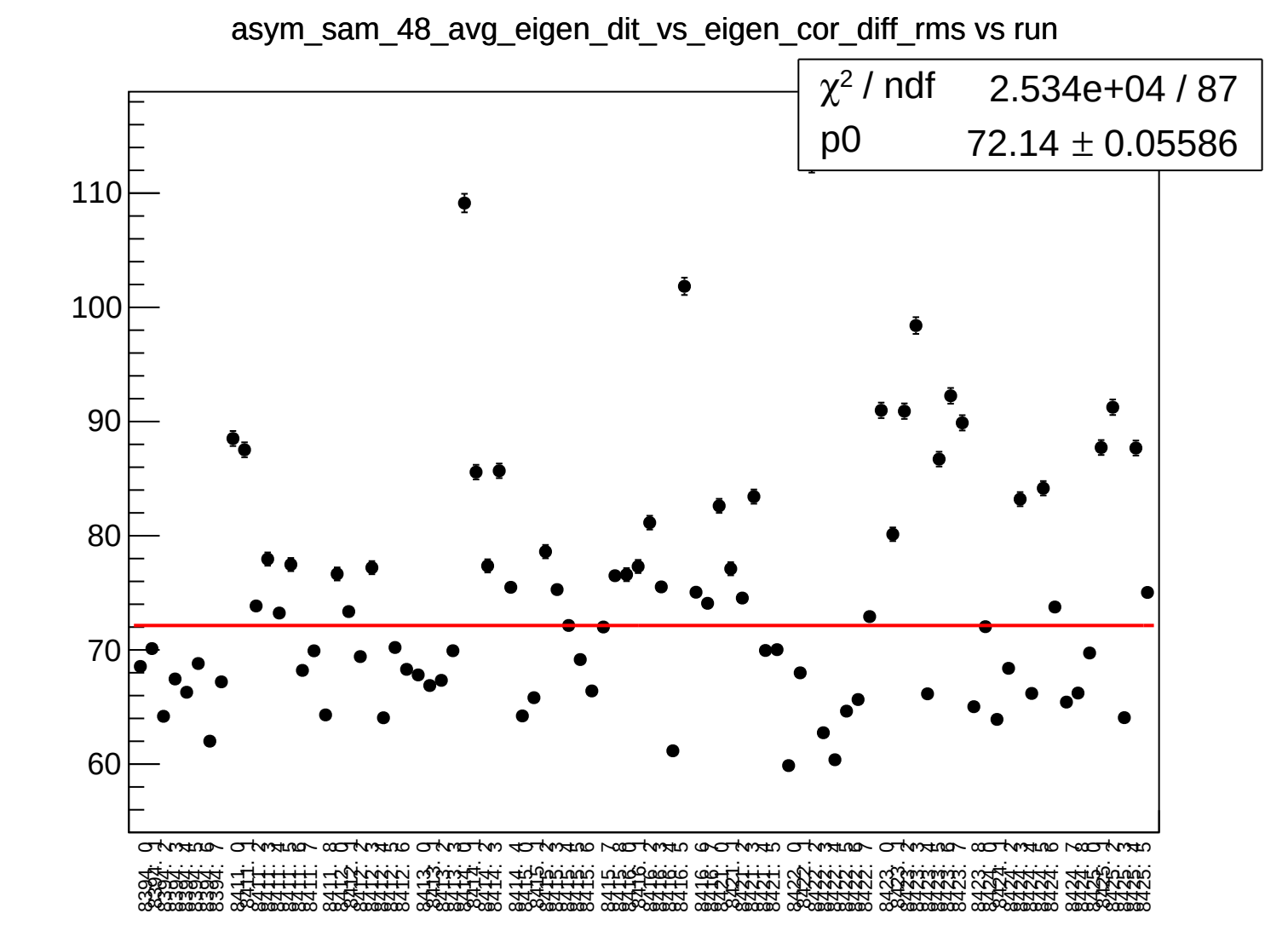

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.86e+04 / 87
p0 0.008007 ± 6.188e−06
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006

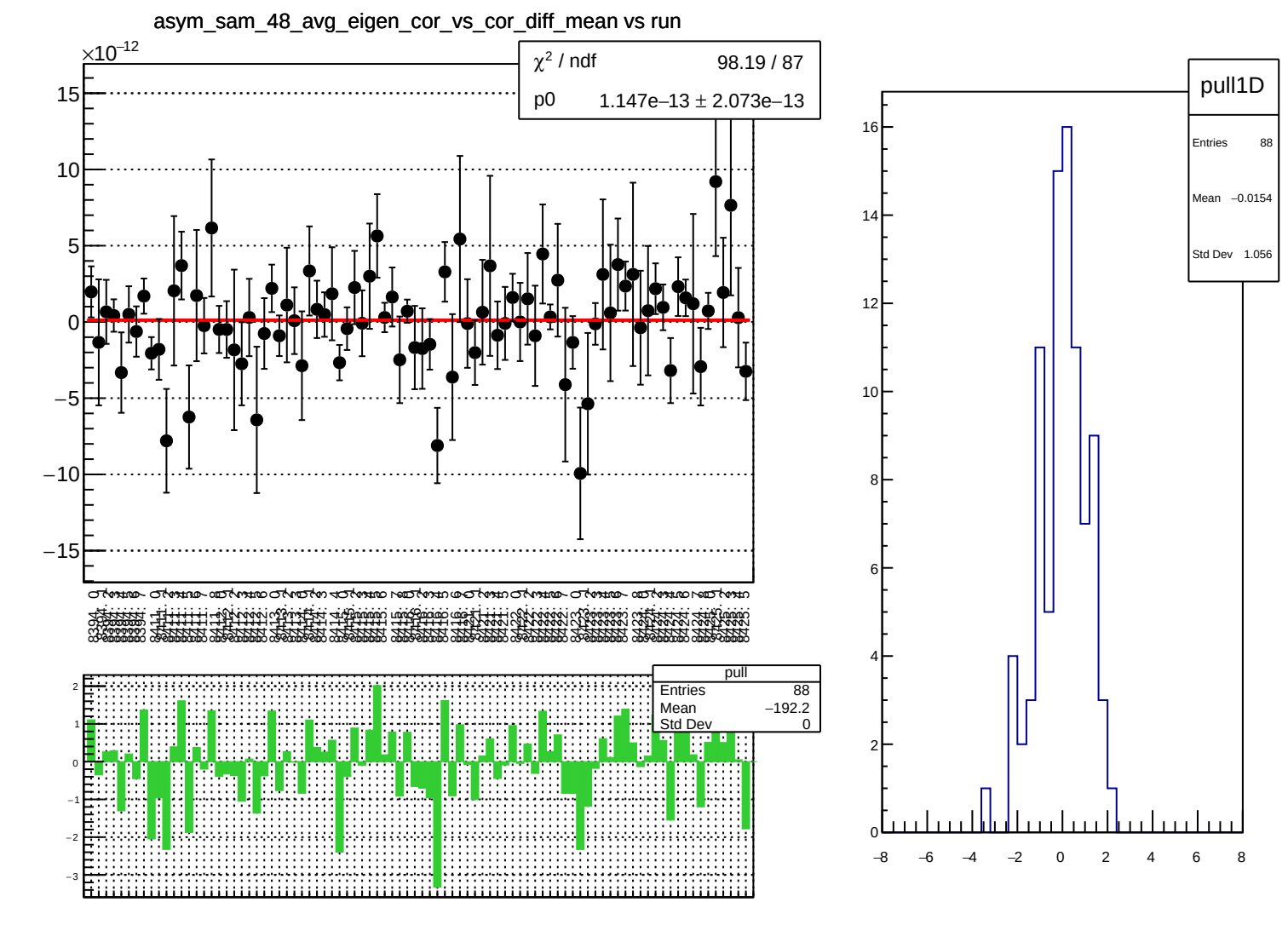

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.25 / 87
p0 −0.5453 ± 0.079
pull
Entries 88
Mean 198
Std Dev 0

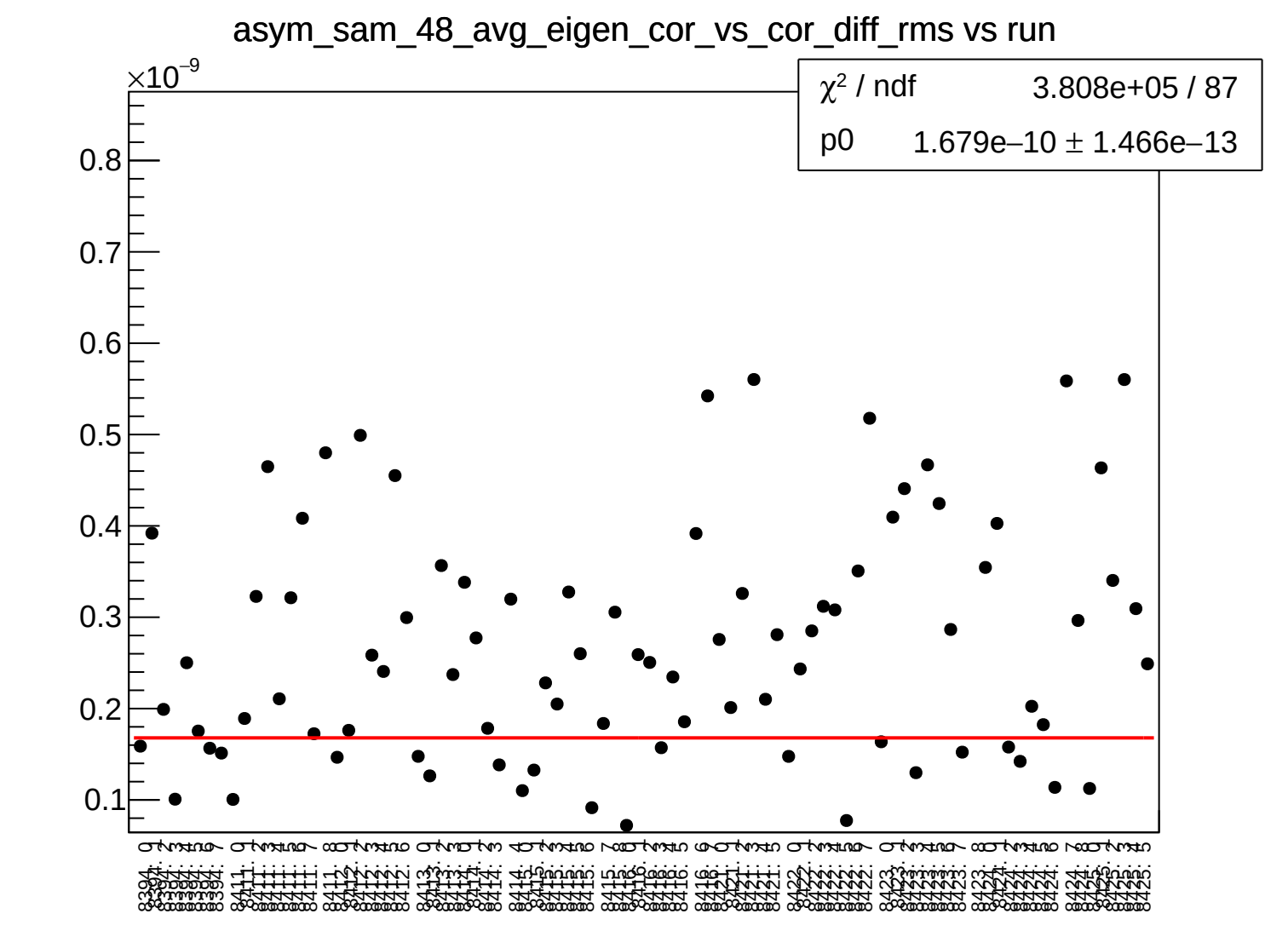

pull1D
Entries 88
Mean −0.02136
Std Dev 1.024

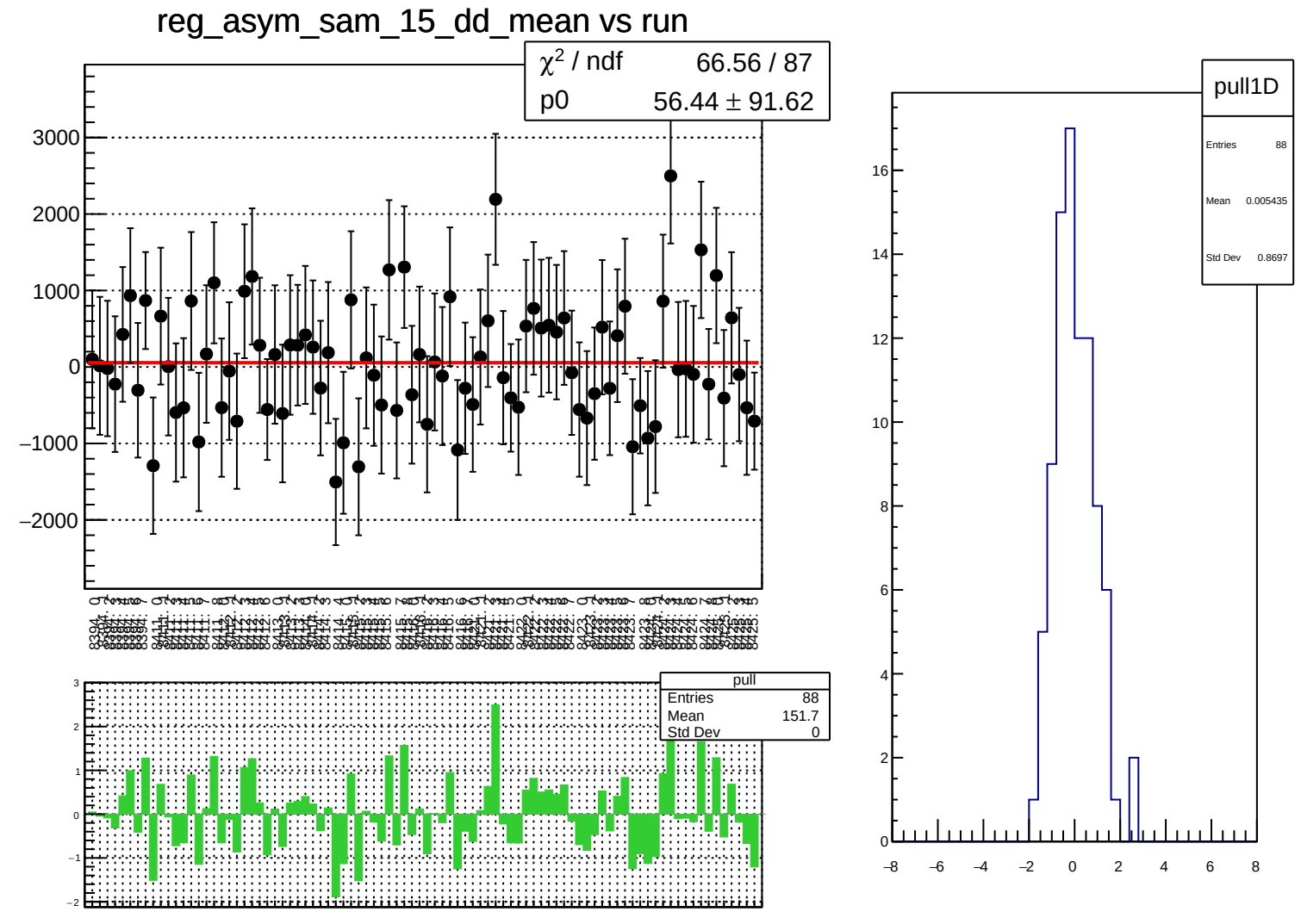

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.534e+04 / 87
p0 72.14 ± 0.05586
110
100
90
80
70
60

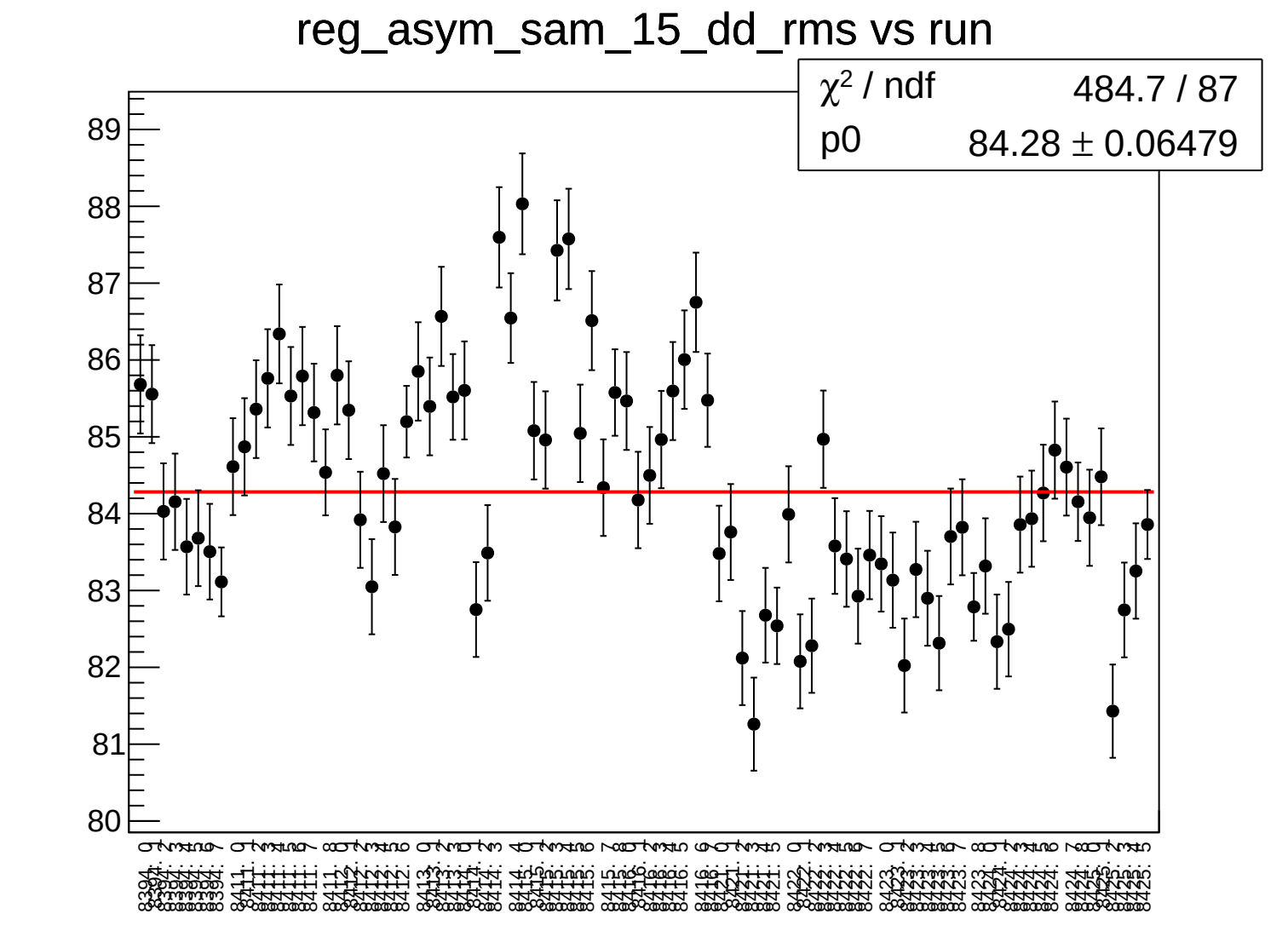

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.25 / 87
p0 −0.5453 ± 0.079
pull
Entries 88
Mean 198
Std Dev 0
pull1D
Entries 88
Mean −0.02136
Std Dev 1.024

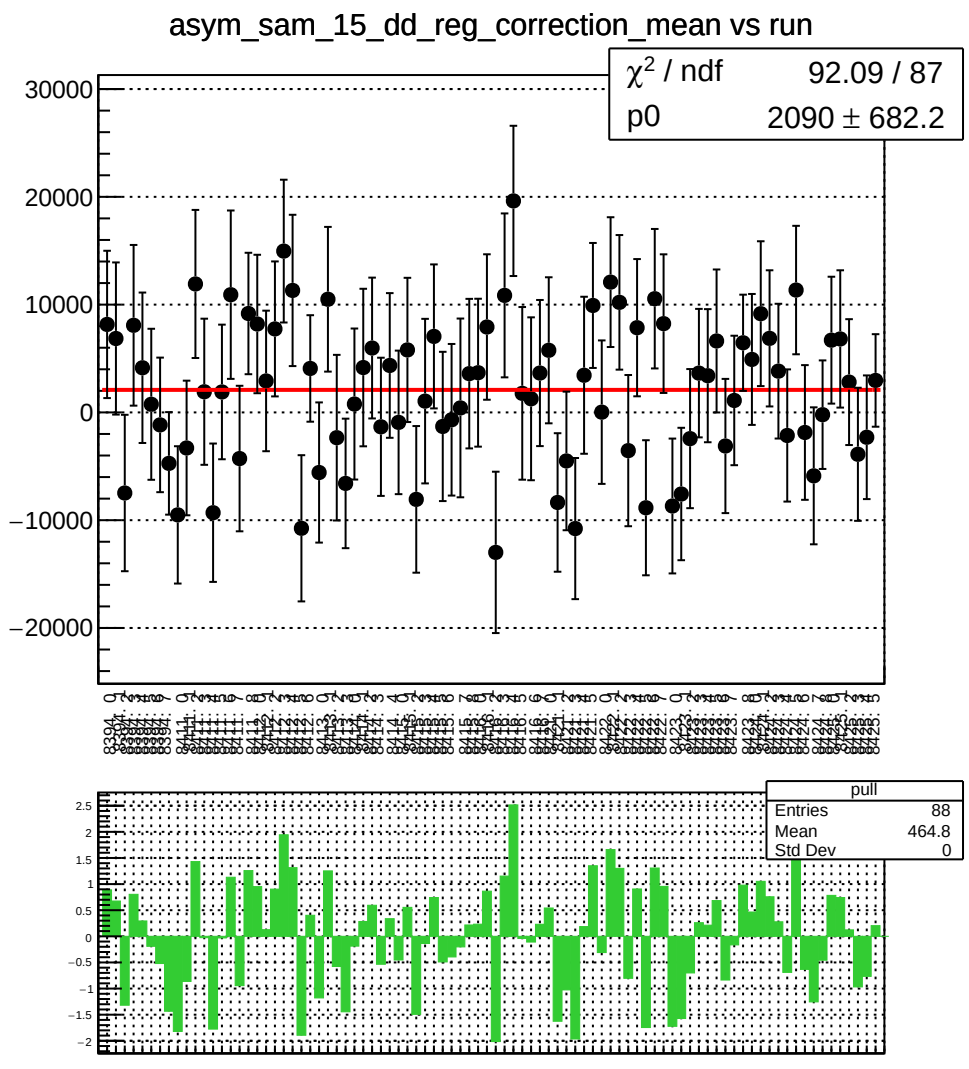

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.534e+04 / 87
p0 72.14 ± 0.05586
110
100
90
80
70
60

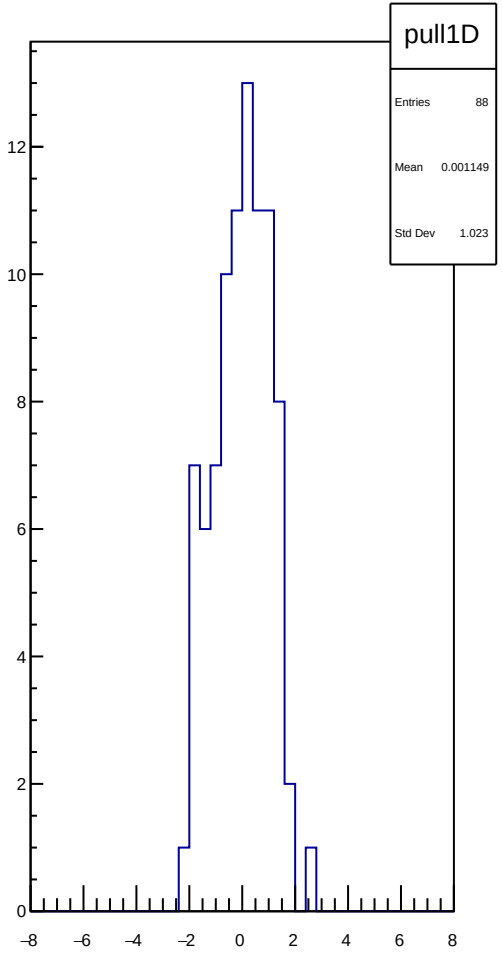

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.19 / 87
p0 1.147e−13 ± 2.073e−13
pull
Entries 88
Mean −192.2
Std Dev 0
pull1D
Entries 88
Mean −0.0154
Std Dev 1.056

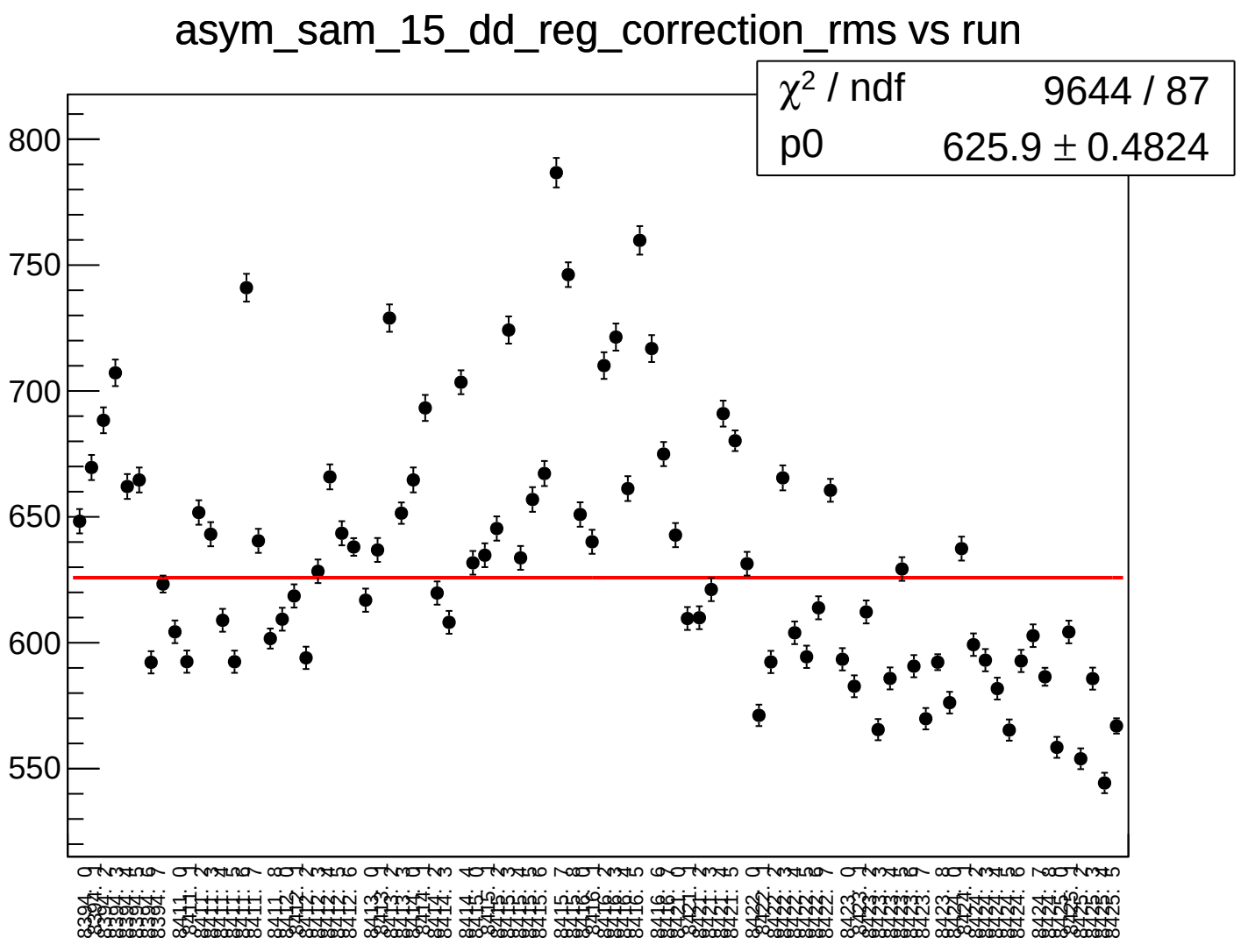

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.808e+05 / 87
p0 1.679e−10 ± 1.466e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

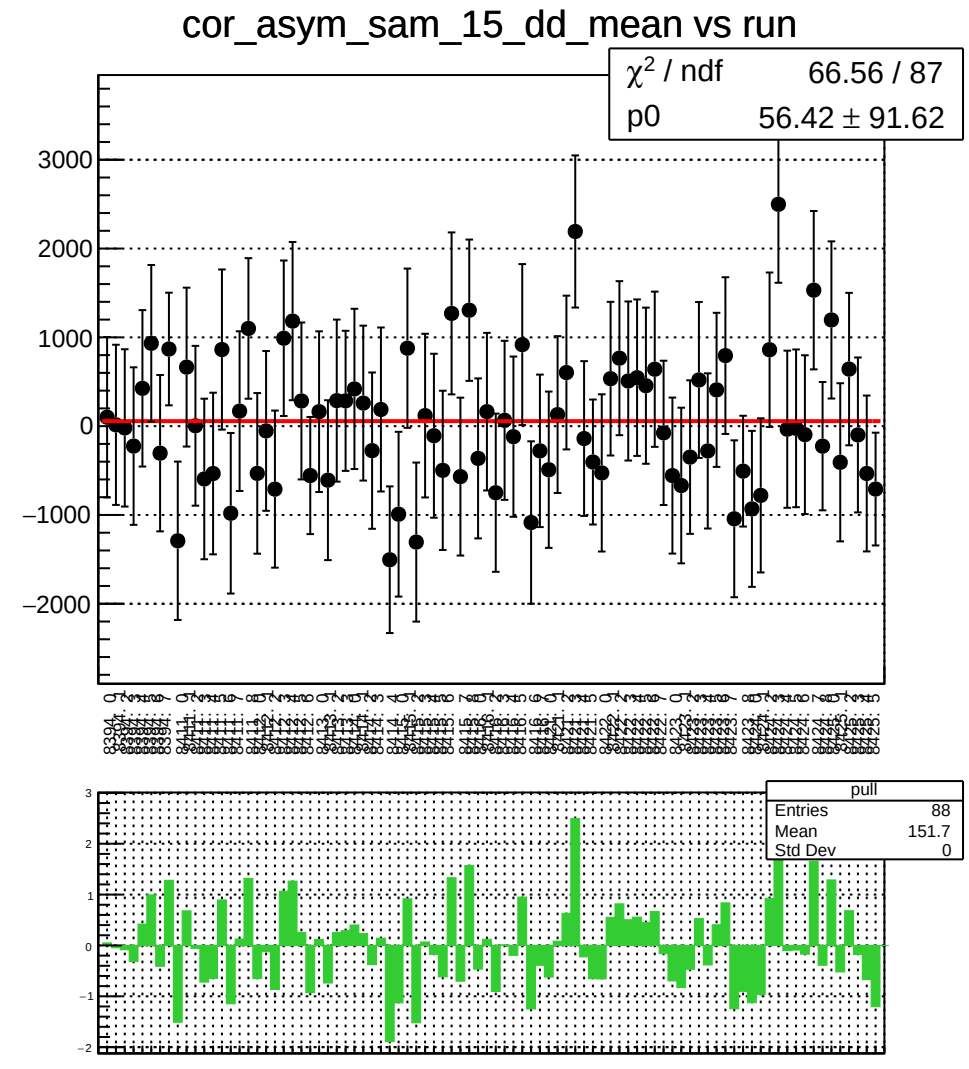

reg_asym_sam_15_dd_mean vs run
χ² / ndf 66.56 / 87
p0 56.44 ± 91.62
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 151.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.005435
Std Dev 0.8697
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

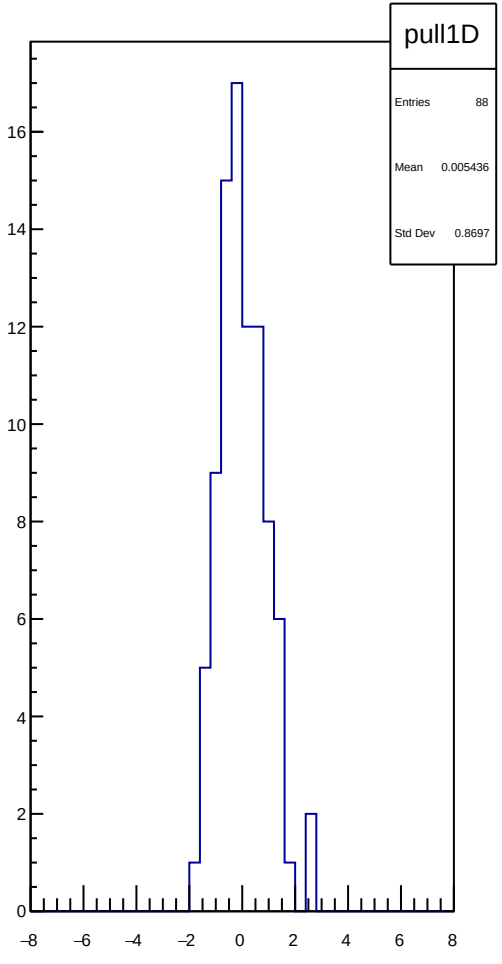

reg_asym_sam_15_dd_rms vs run
χ^2 / ndf 484.7 / 87
p0 84.28 ± 0.06479
89
88
87
86
85
84
83
82
81
80

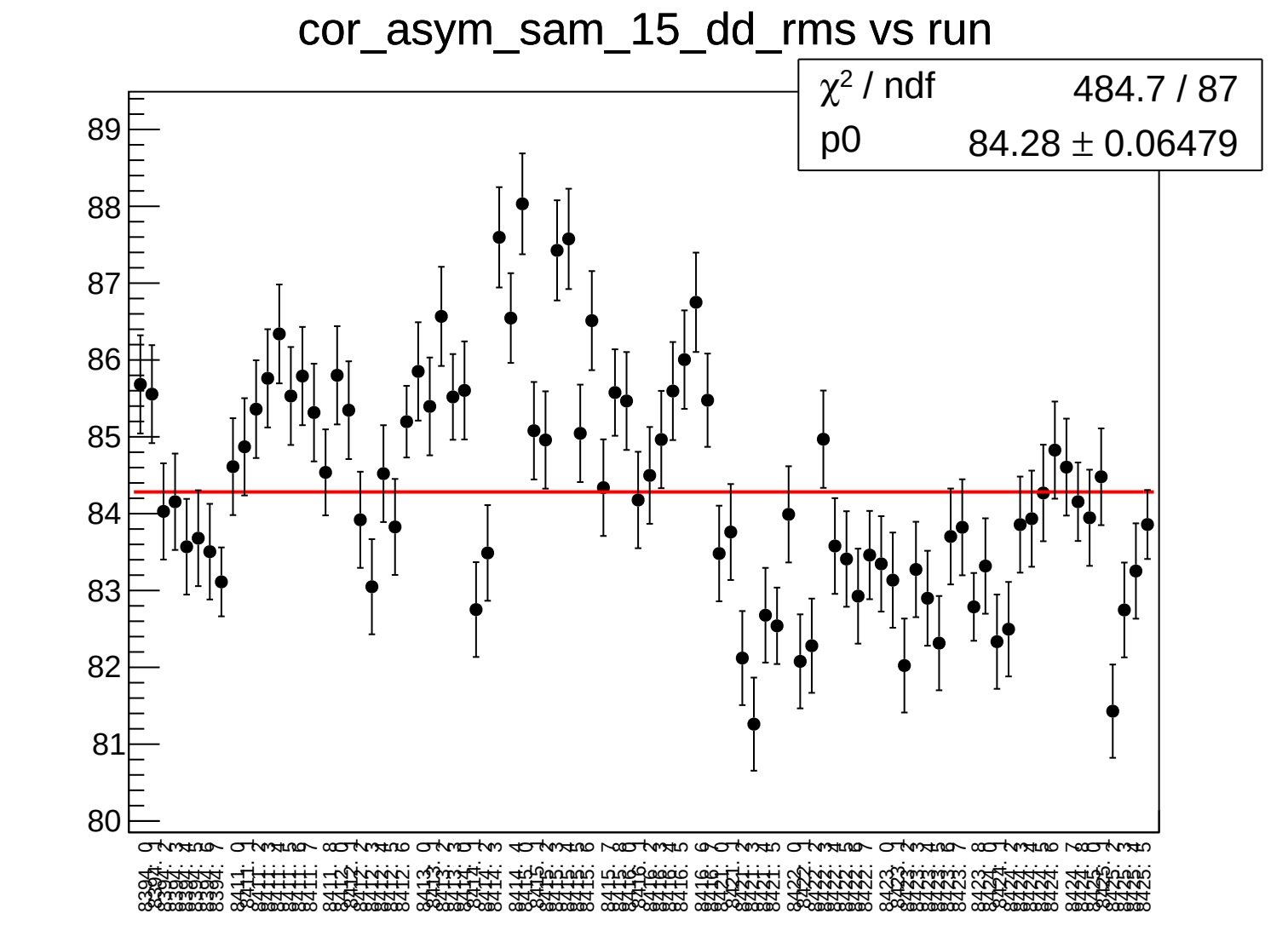

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 92.09 / 87
p0 2090 ± 682.2
30000
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 464.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

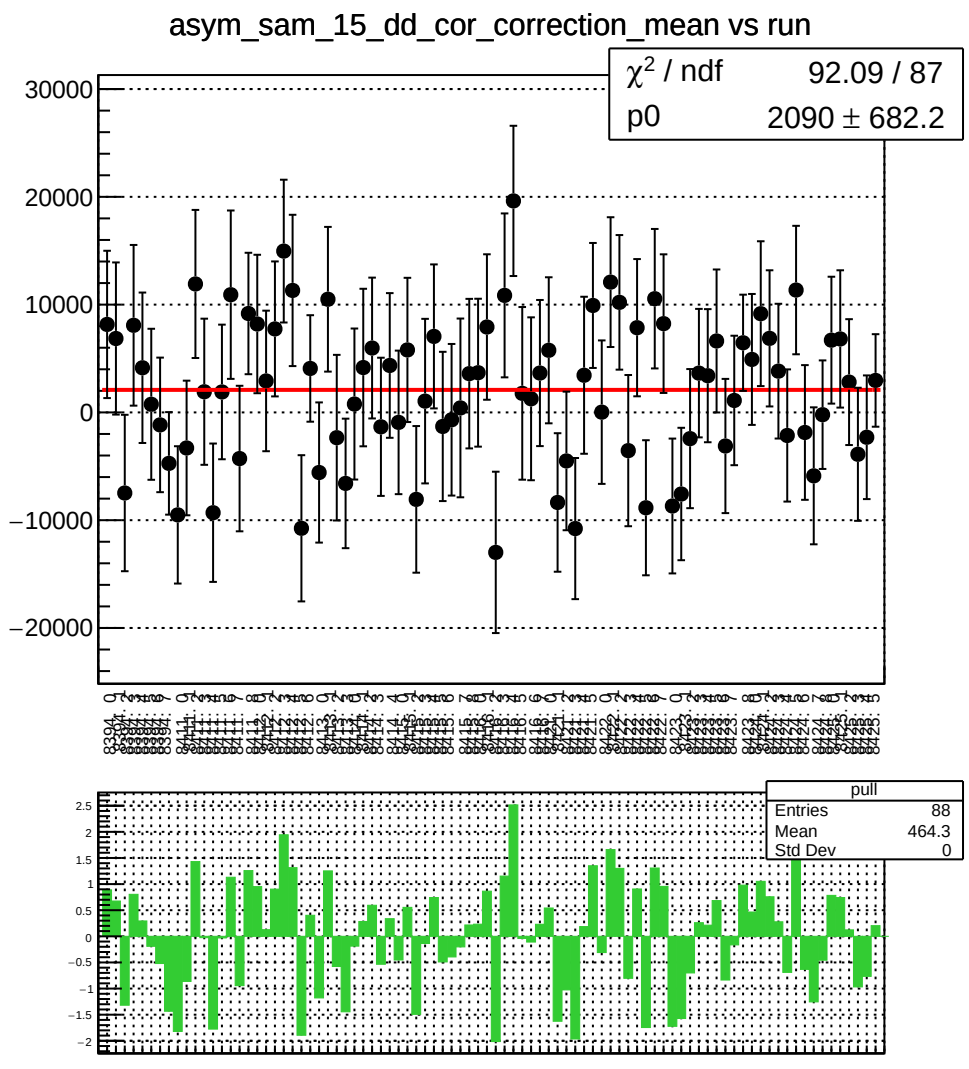

pull1D
Entries 88
Mean 0.001149
Std Dev 1.023
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

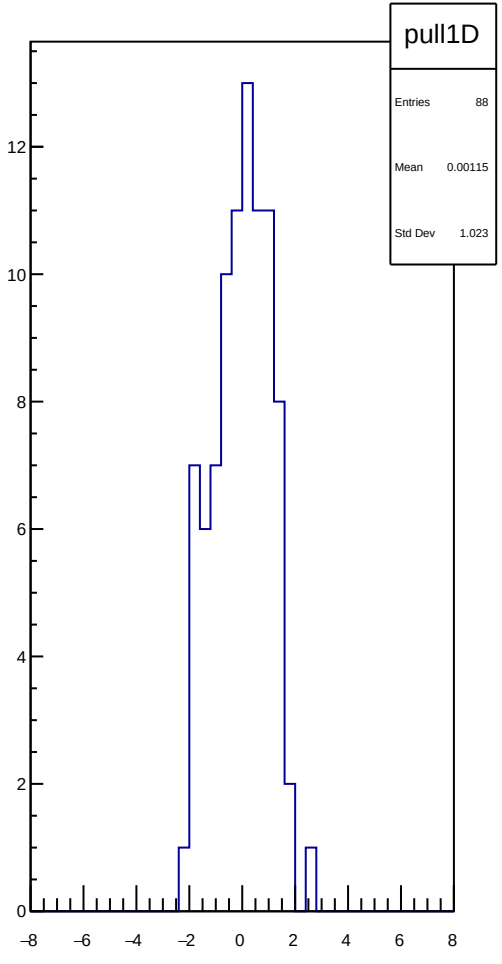

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 9644 / 87
p0 625.9 ± 0.4824
800
750
700
650
600
550

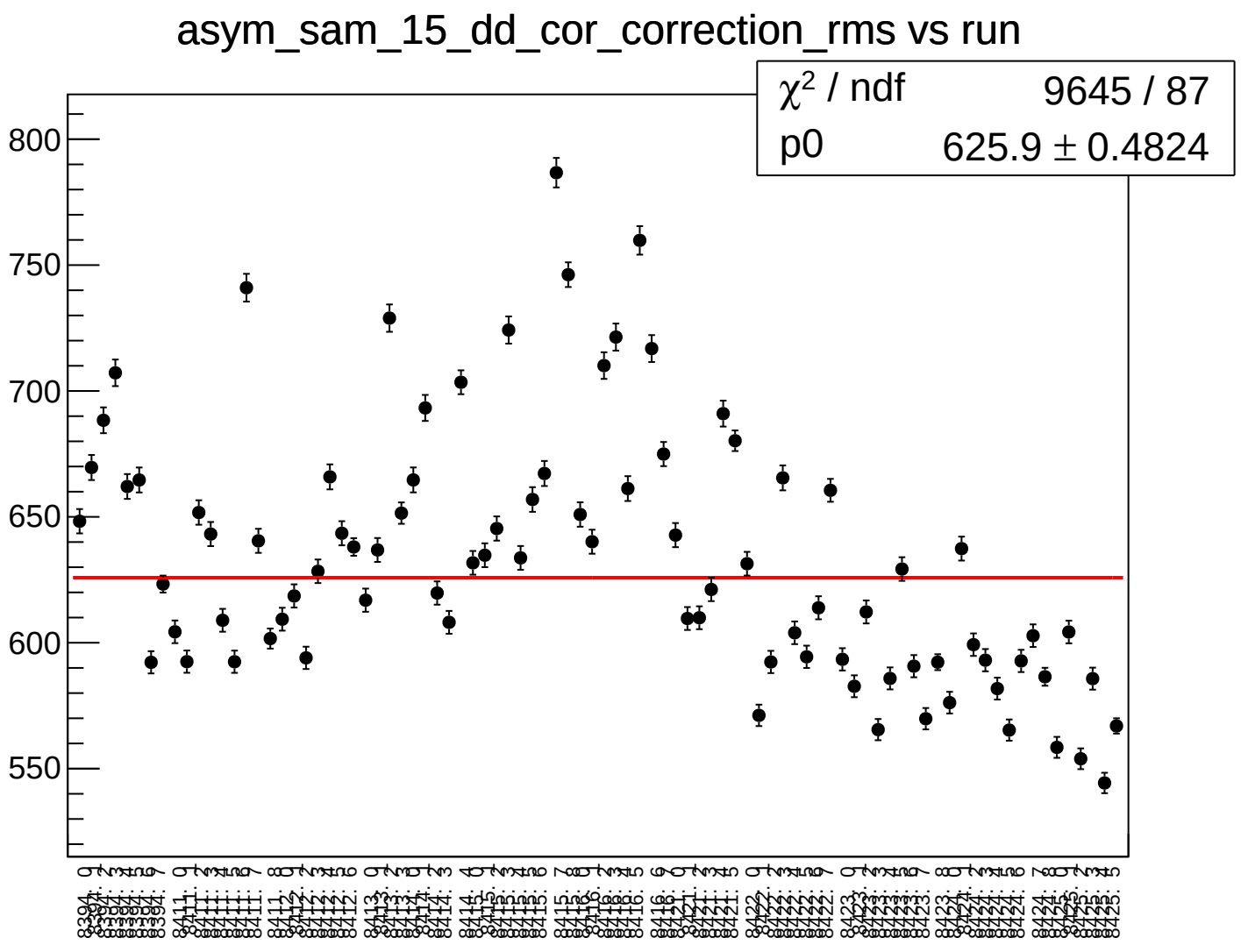

cor_asym_sam_15_dd_mean vs run
χ² / ndf 66.56 / 87
p0 56.42 ± 91.62
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 151.7
Std Dev 0
3
2
1
0
−1
−2

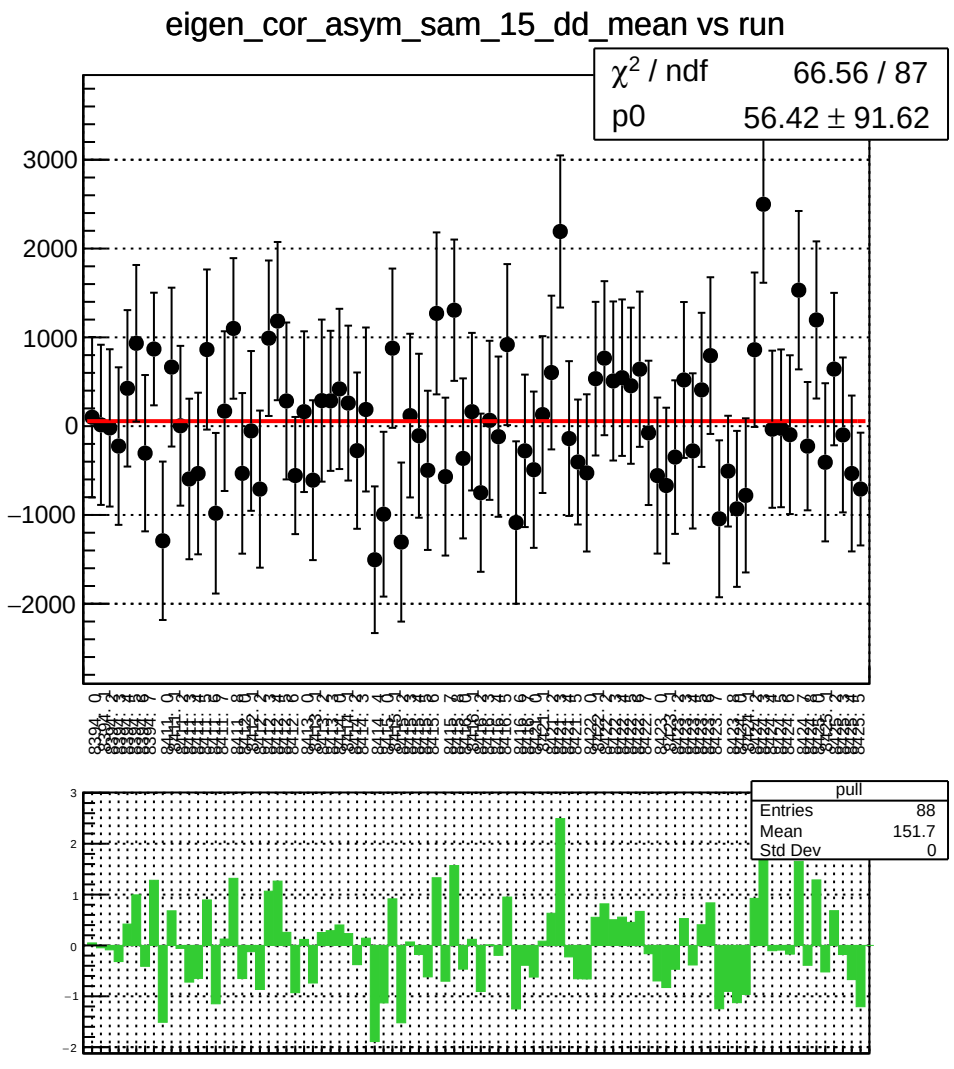

pull1D
Entries 88
Mean 0.005436
Std Dev 0.8697
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

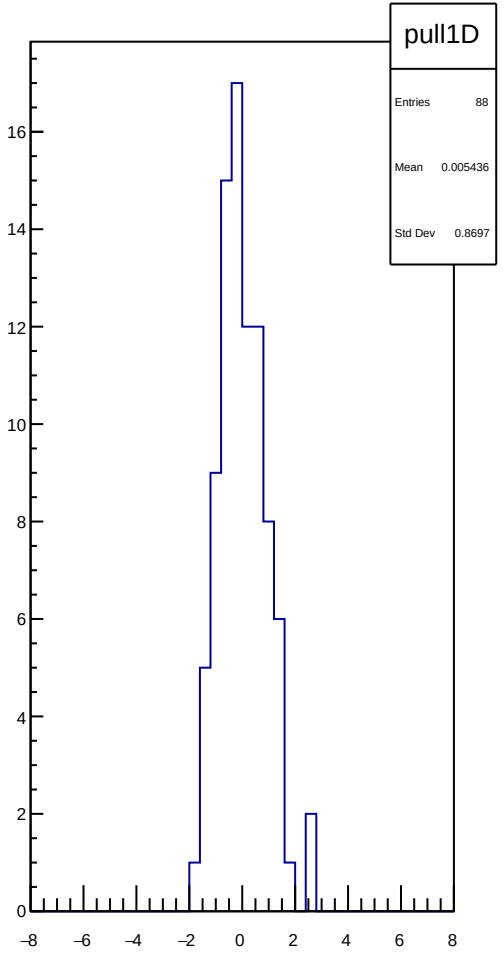

cor_asym_sam_15_dd_rms vs run
χ² / ndf 484.7 / 87
p0 84.28 ± 0.06479
89
88
87
86
85
84
83
82
81
80


asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 92.09 / 87
p0 2090 ± 682.2
30000
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 464.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 88
Mean 0.00115
Std Dev 1.023
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 9645 / 87
p0 625.9 ± 0.4824
800
750
700
650
600
550


eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 66.56 / 87
p0 56.42 ± 91.62
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 151.7
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.005436
Std Dev 0.8697
16
14
12
10
8
6
4
2
0
−8
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−4
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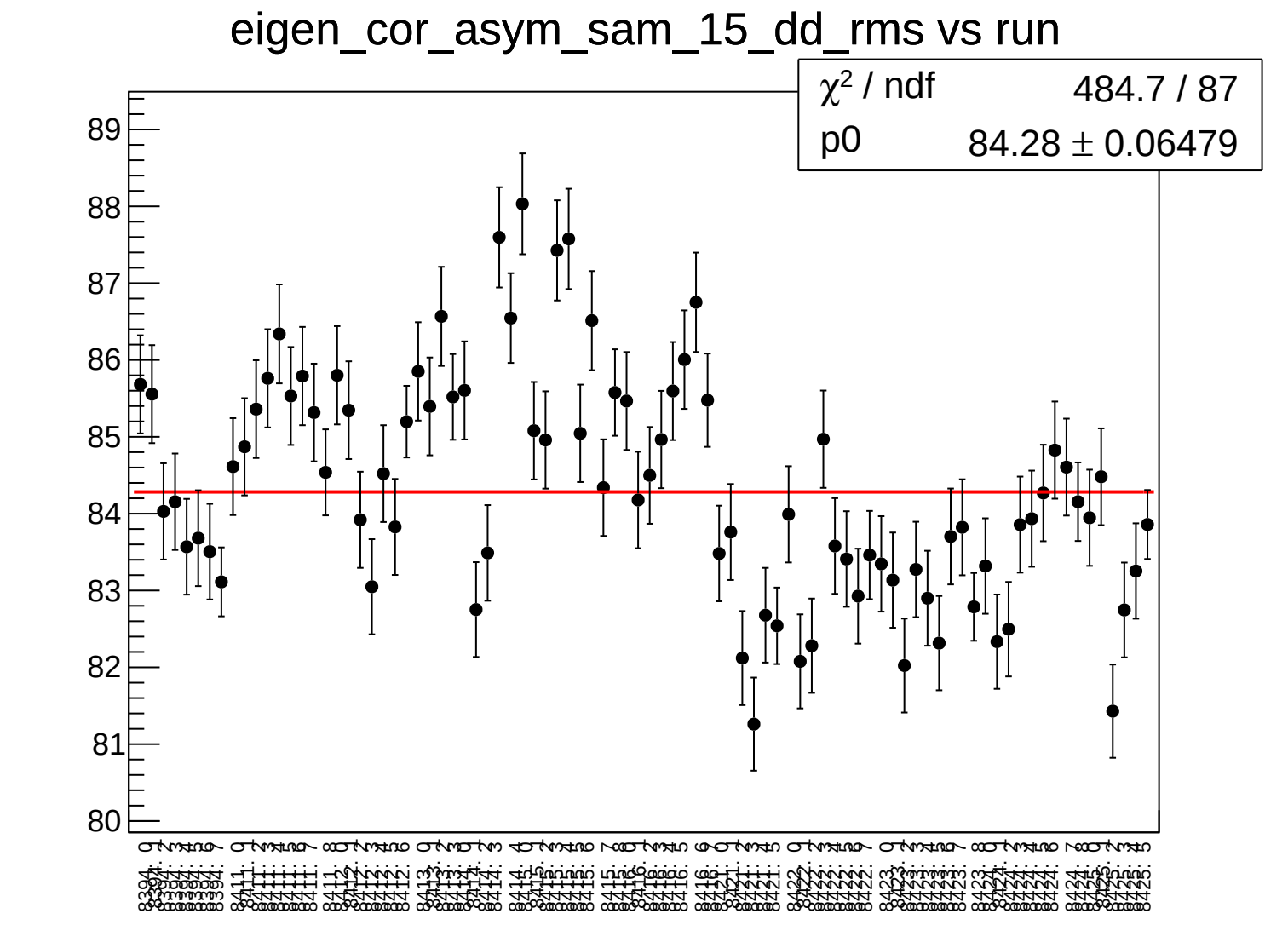
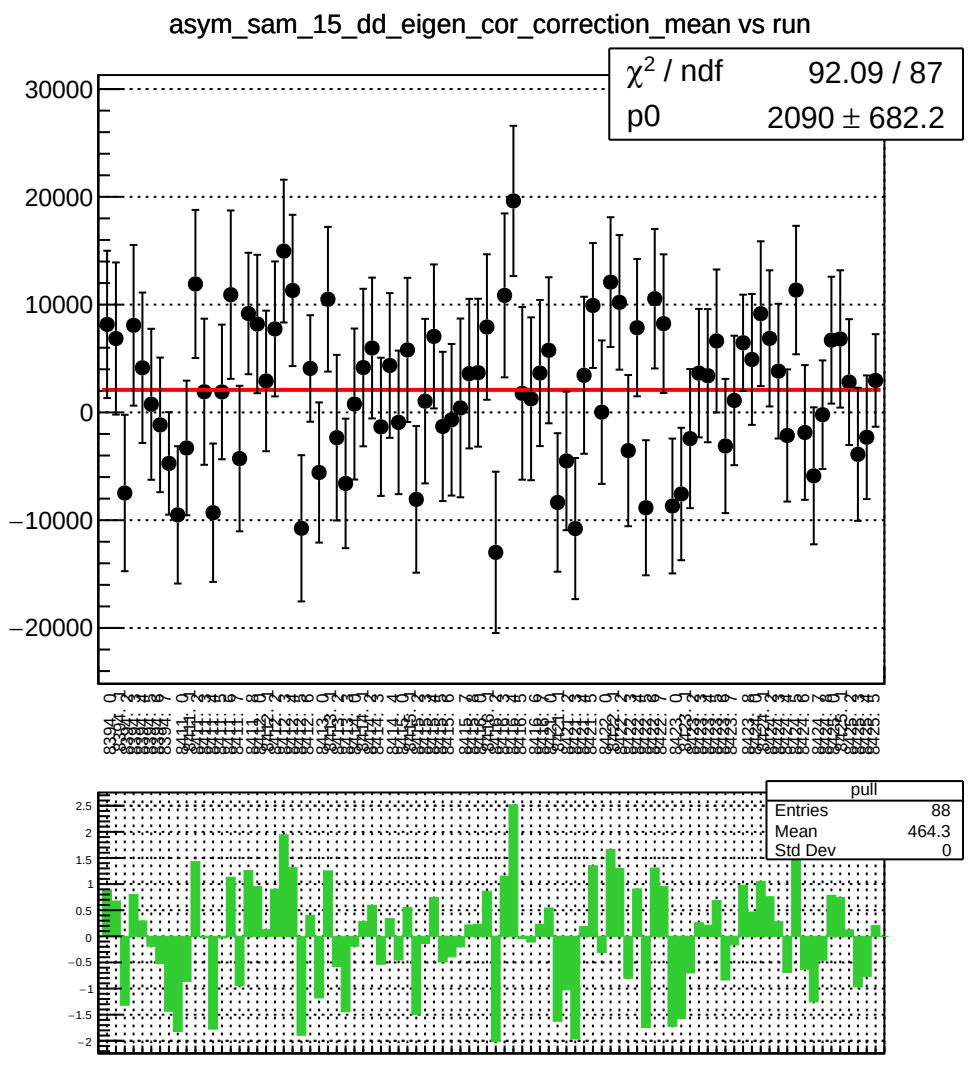
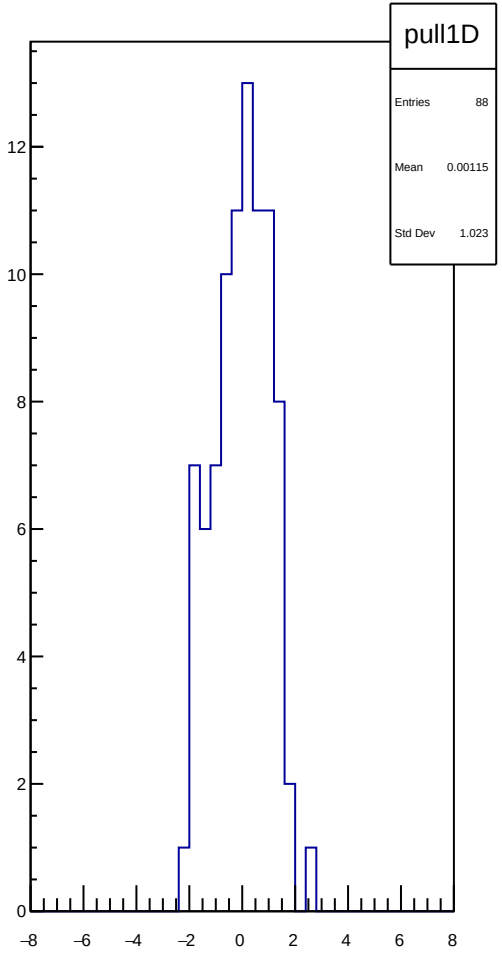
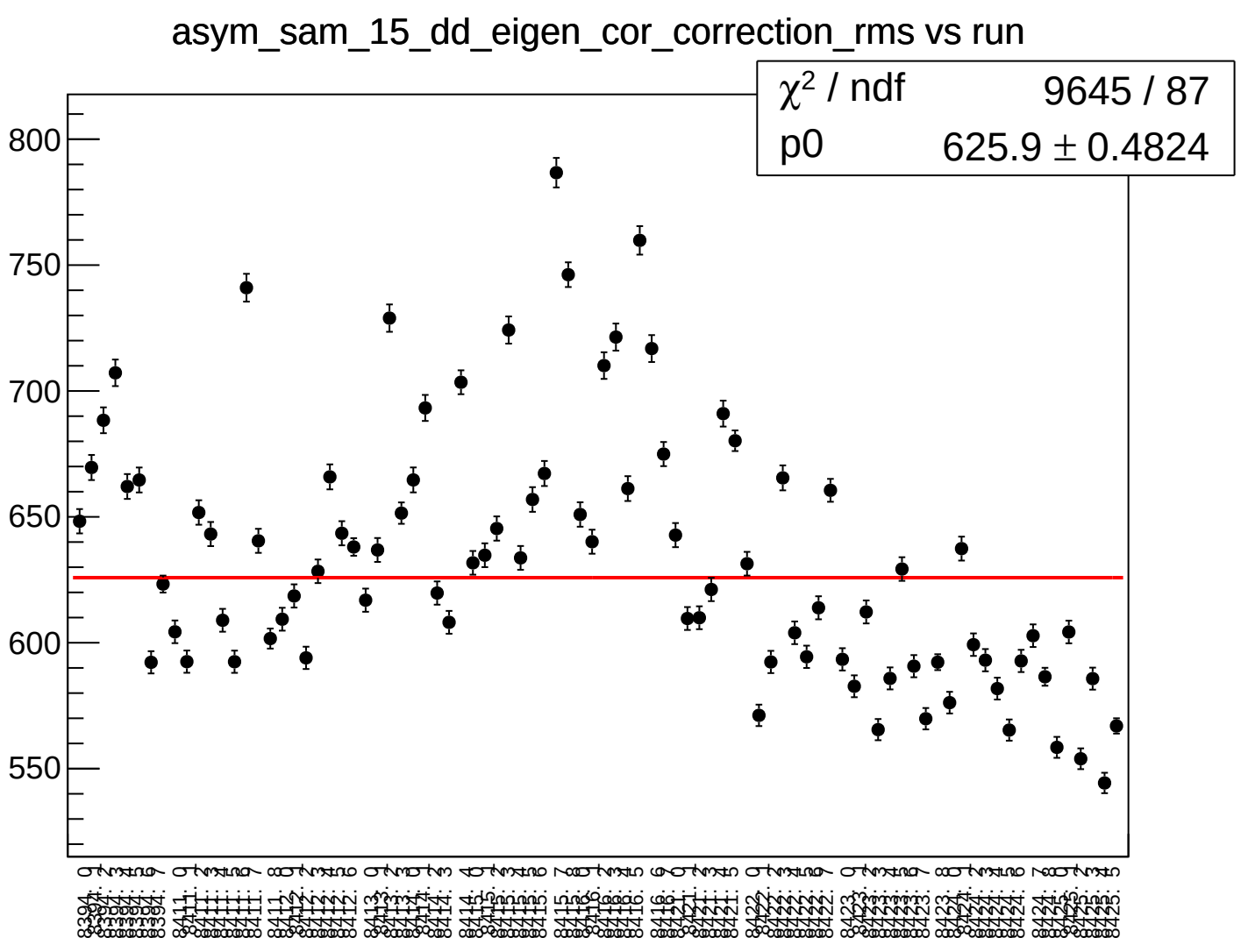
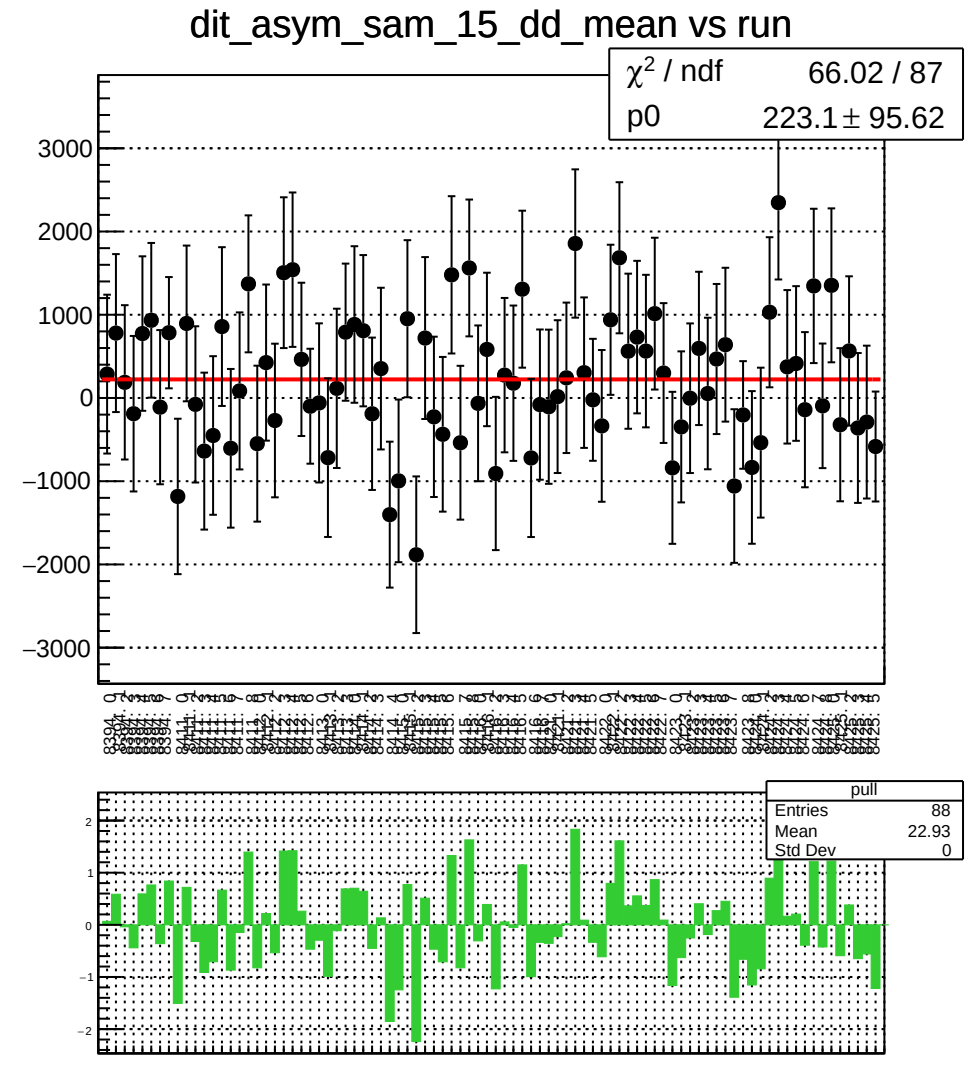
2
4
6
8

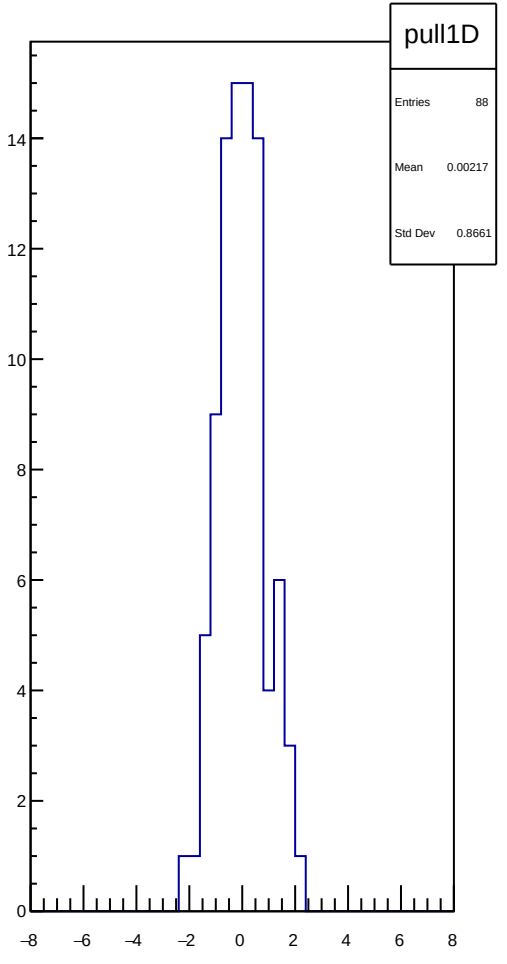

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 484.7 / 87
p0 84.28 ± 0.06479
89
88
87
86
85
84
83
82
81
80

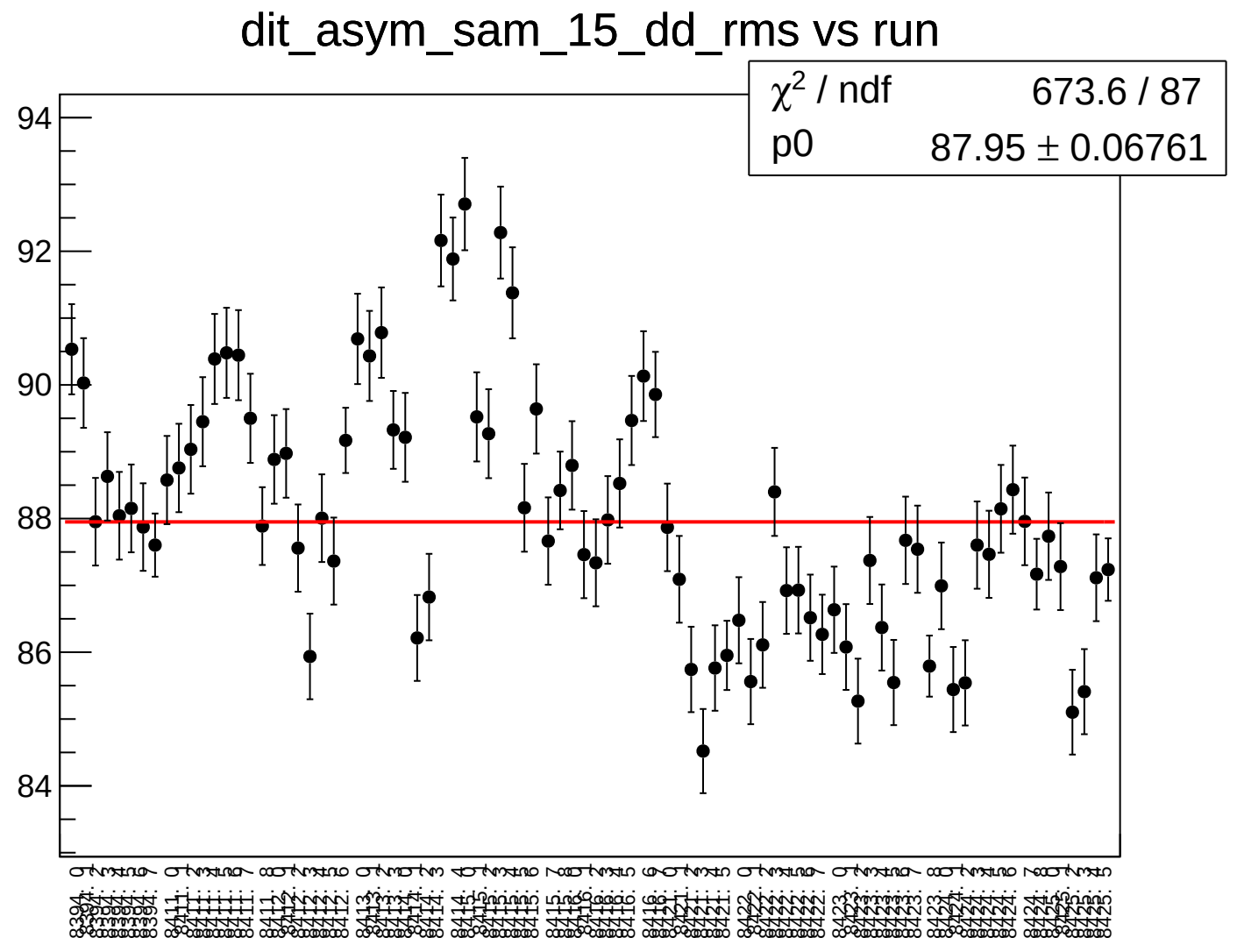

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 92.09 / 87
p0 2090 ± 682.2
30000
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 464.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

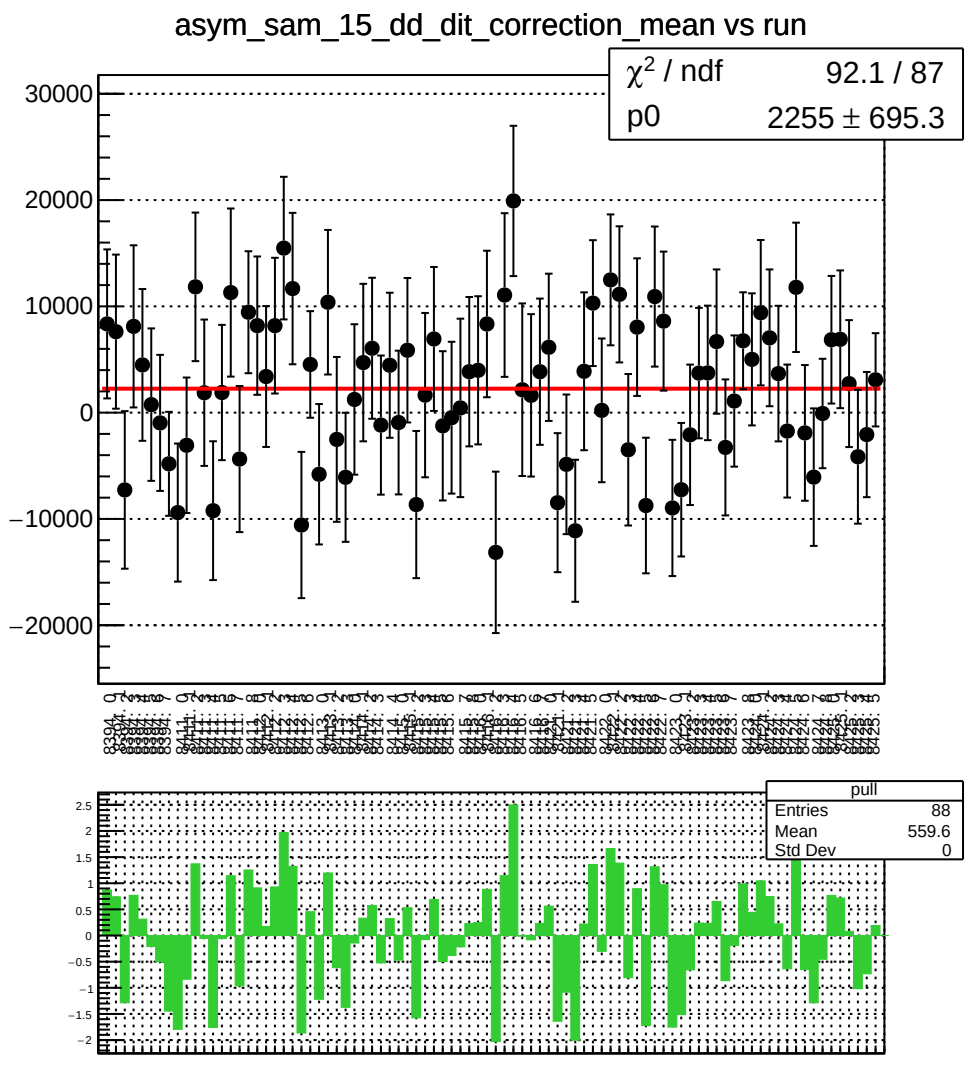

pull1D
Entries 88
Mean 0.00115
Std Dev 1.023
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

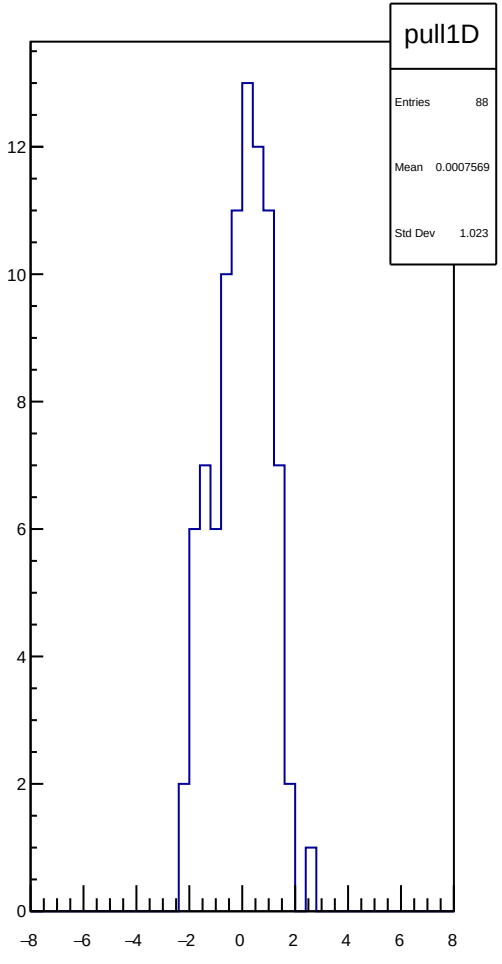

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 9645 / 87
p0 625.9 ± 0.4824
800
750
700
650
600
550

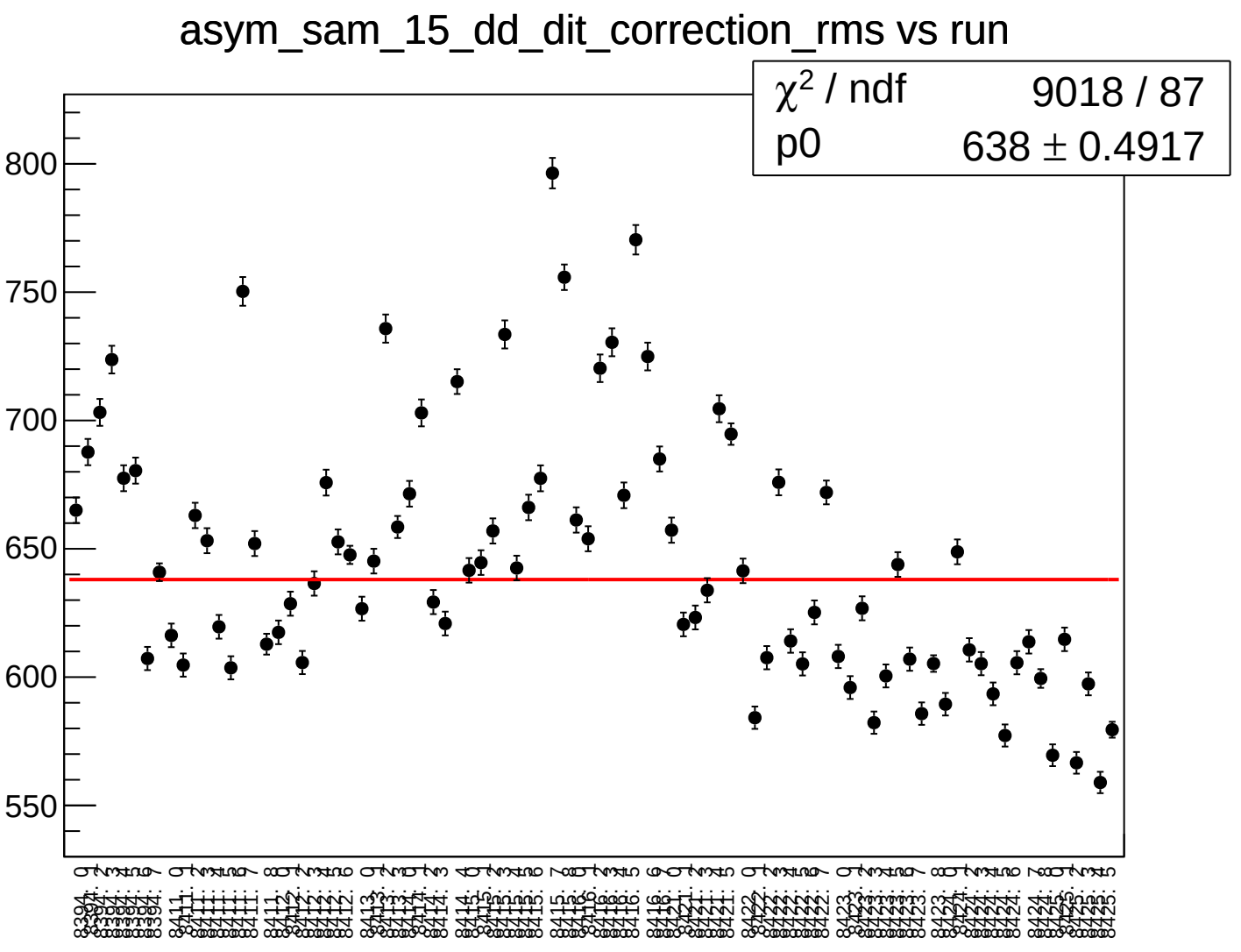

dit_asym_sam_15_dd_mean vs run
χ² / ndf 66.02 / 87
p0 223.1 ± 95.62
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 22.93
Std Dev 0
2
1
0
−1
−2

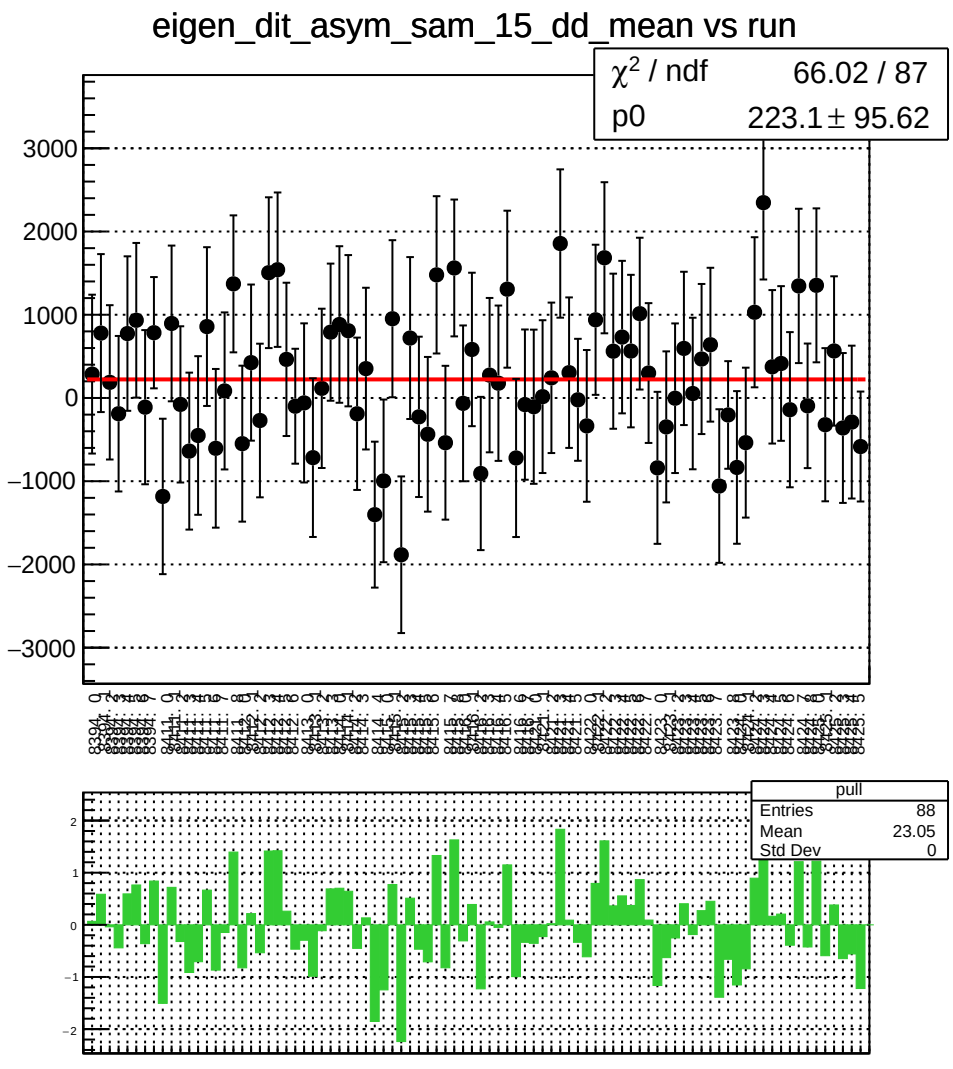

pull1D
Entries 88
Mean 0.00217
Std Dev 0.8661
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

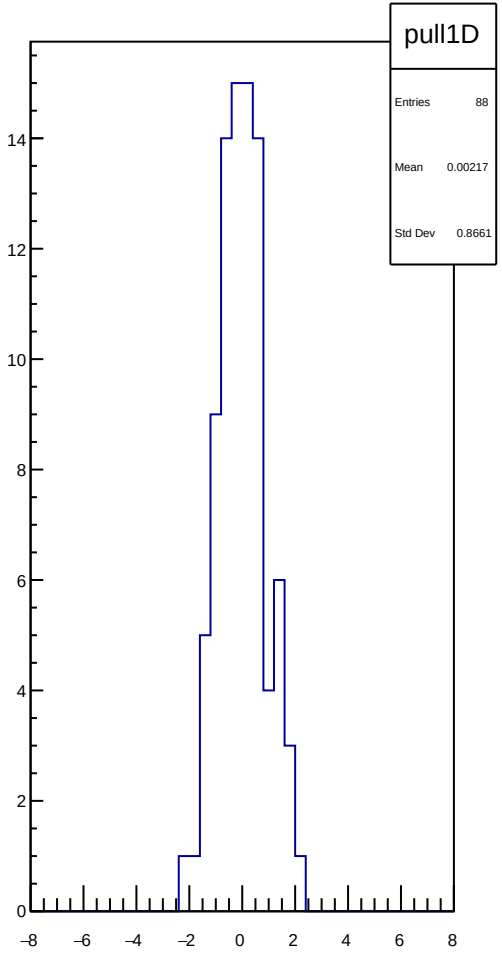

dit_asym_sam_15_dd_rms vs run
χ^2 / ndf 673.6 / 87
p0 87.95 ± 0.06761
94
92
90
88
86
84

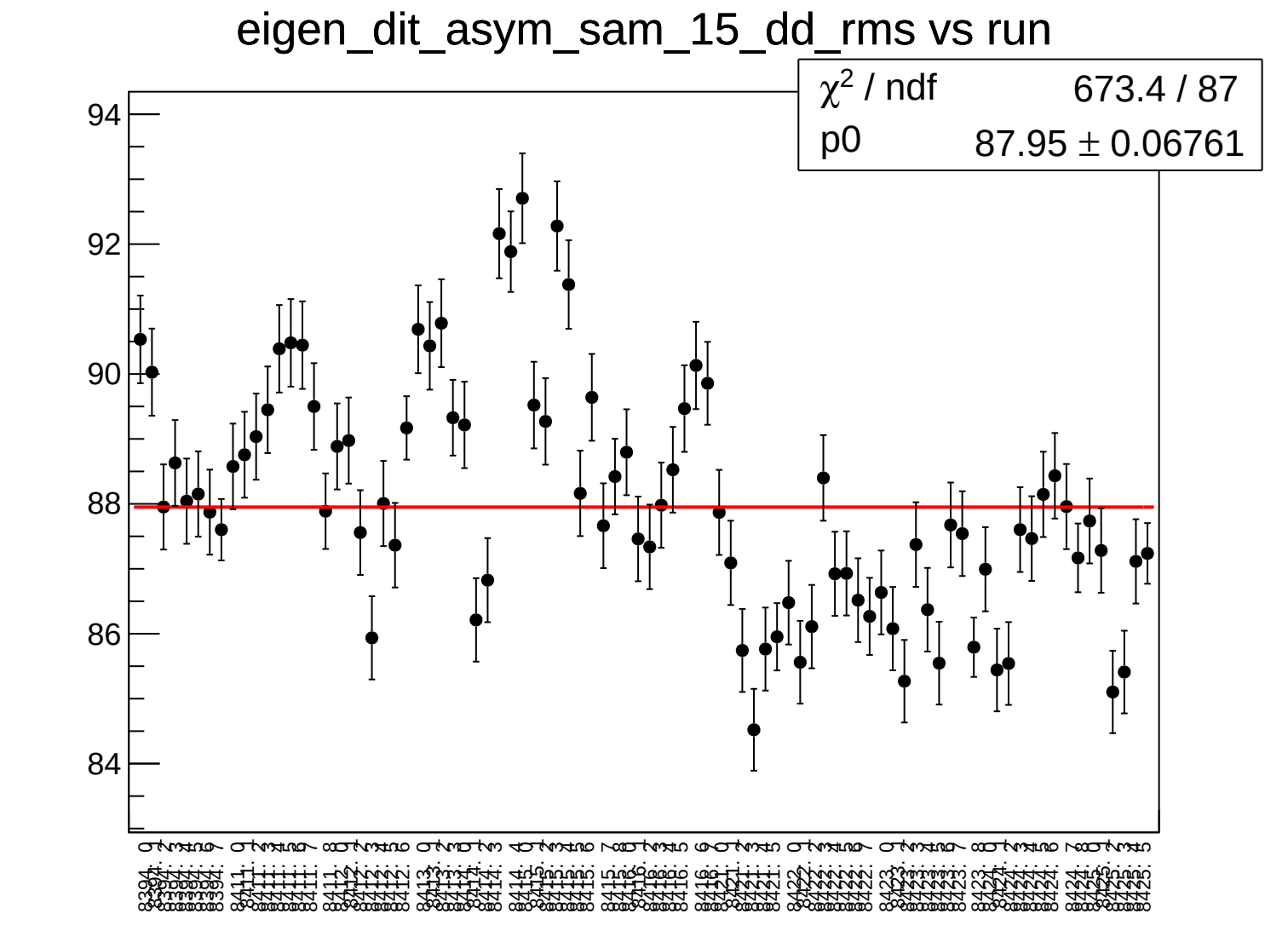

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 92.1 / 87
p0 2255 ± 695.3
30000
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 559.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

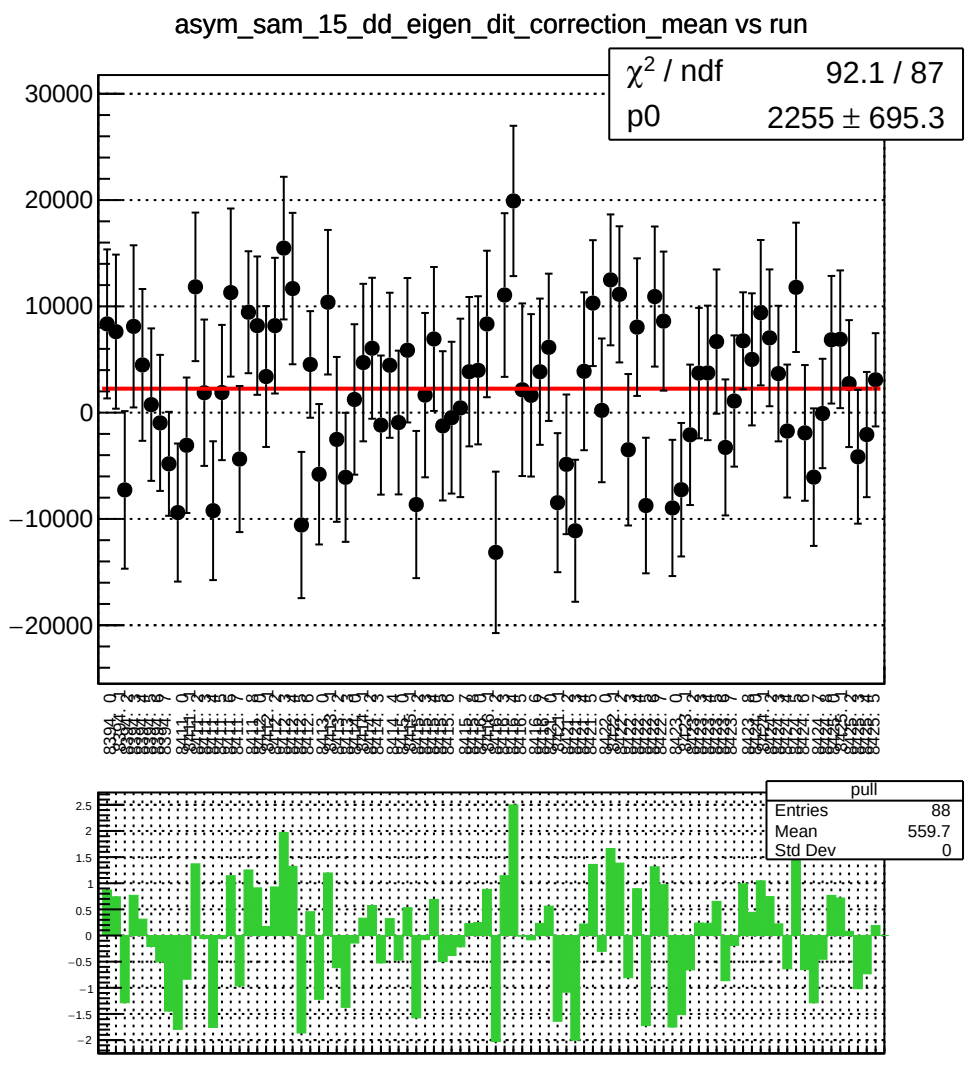

pull1D
Entries 88
Mean 0.0007569
Std Dev 1.023
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

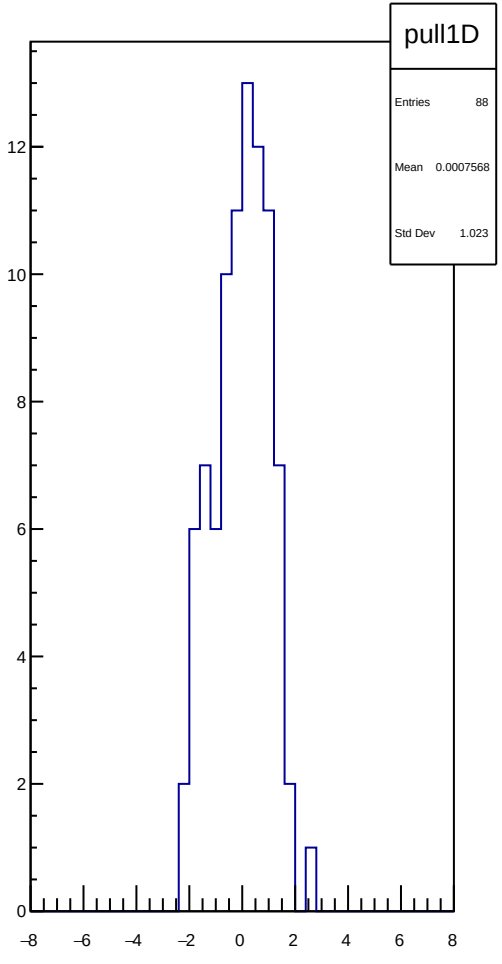

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 9018 / 87
p0 638 ± 0.4917
800
750
700
650
600
550

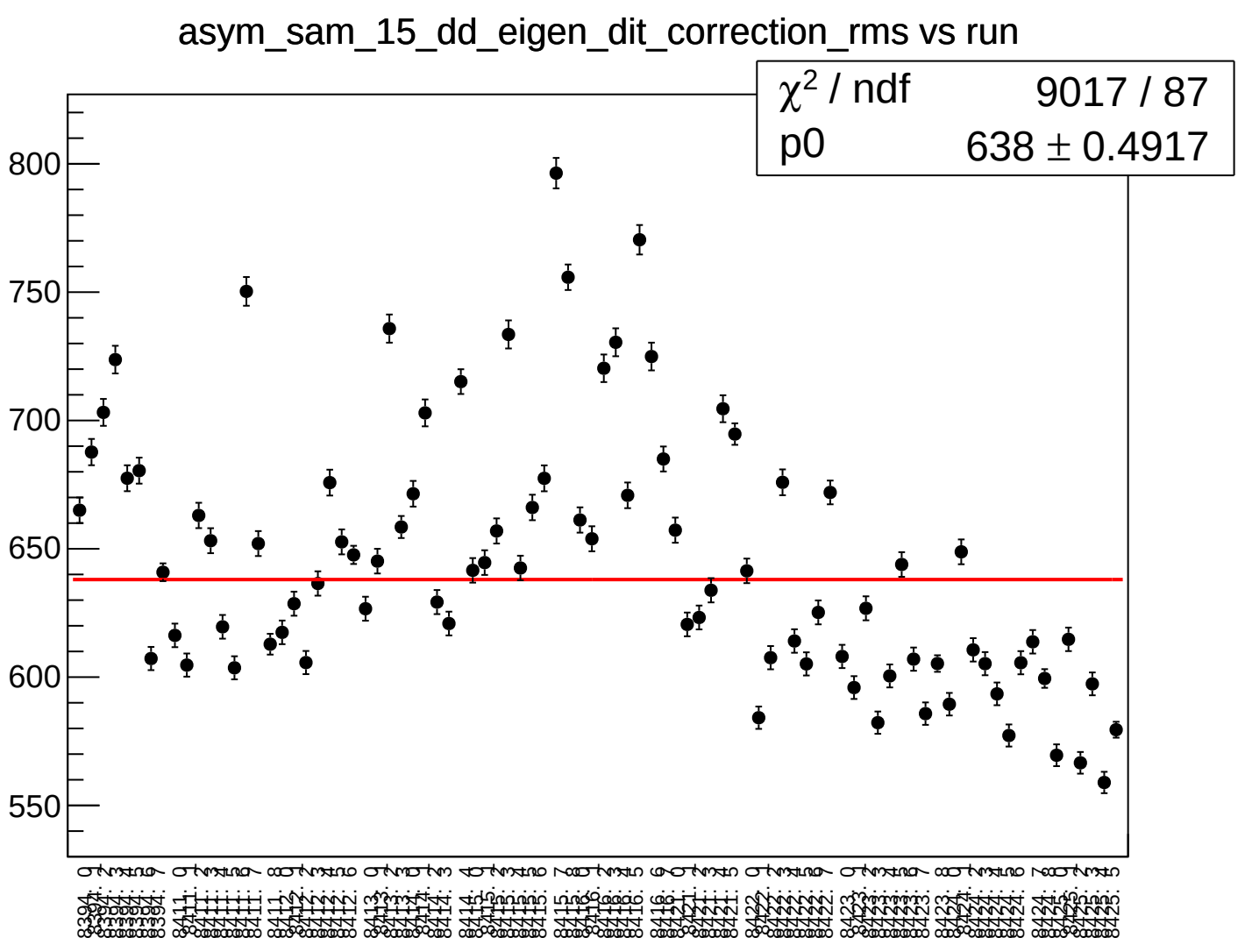

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 66.02 / 87
p0 223.1 ± 95.62
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 23.05
Std Dev 0
2
1
0
−1
−2

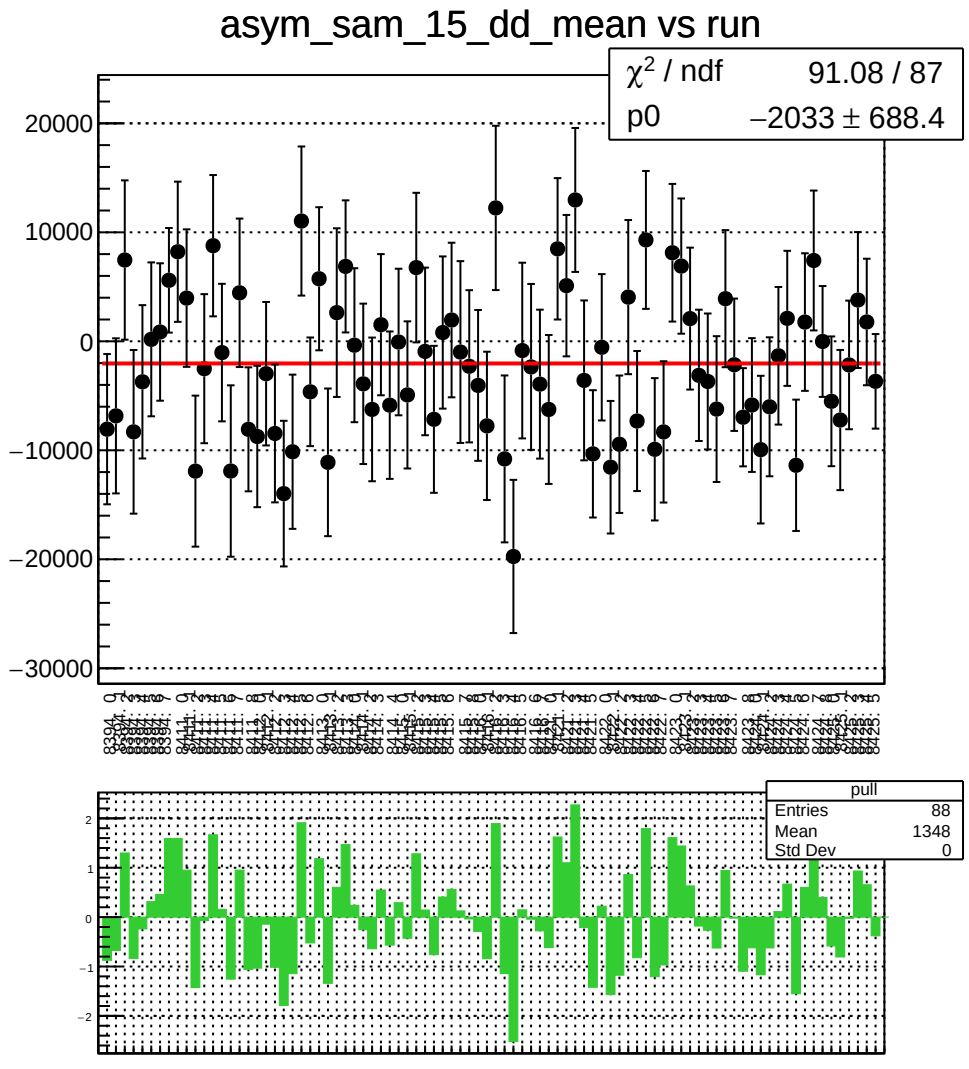

pull1D
Entries 88
Mean 0.00217
Std Dev 0.8661
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

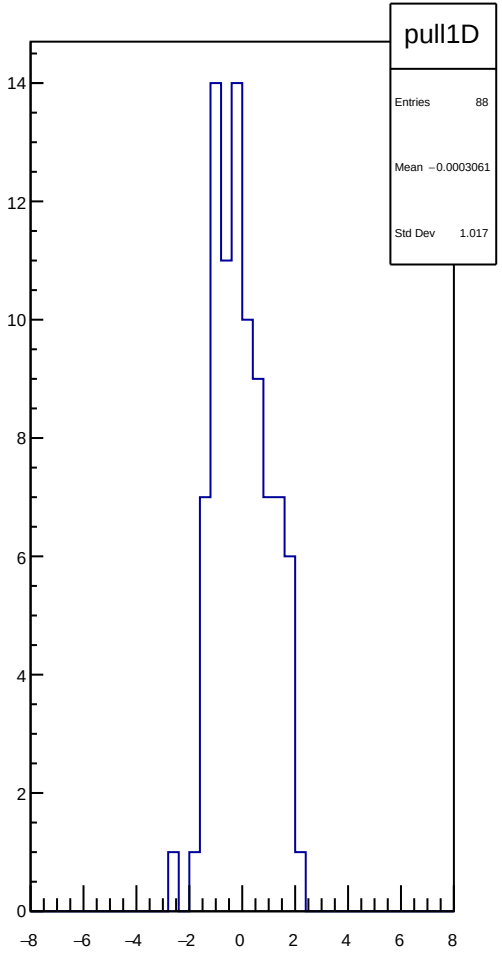

eigen_dit_asym_sam_15_dd_rms vs run
χ^2 / ndf 673.4 / 87
p0 87.95 ± 0.06761
94
92
90
88
86
84

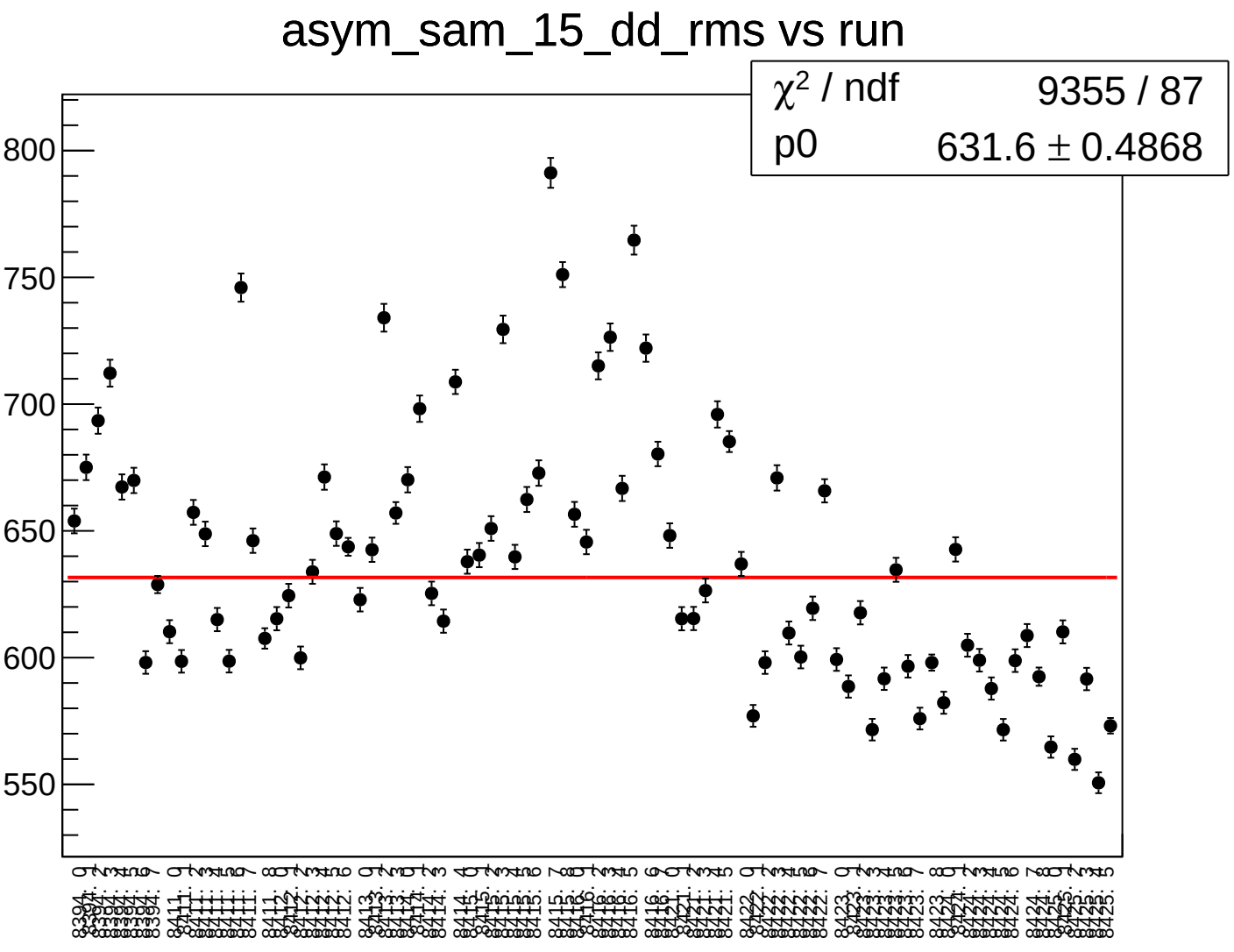

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 92.1 / 87
p0 2255 ± 695.3
30000
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 559.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

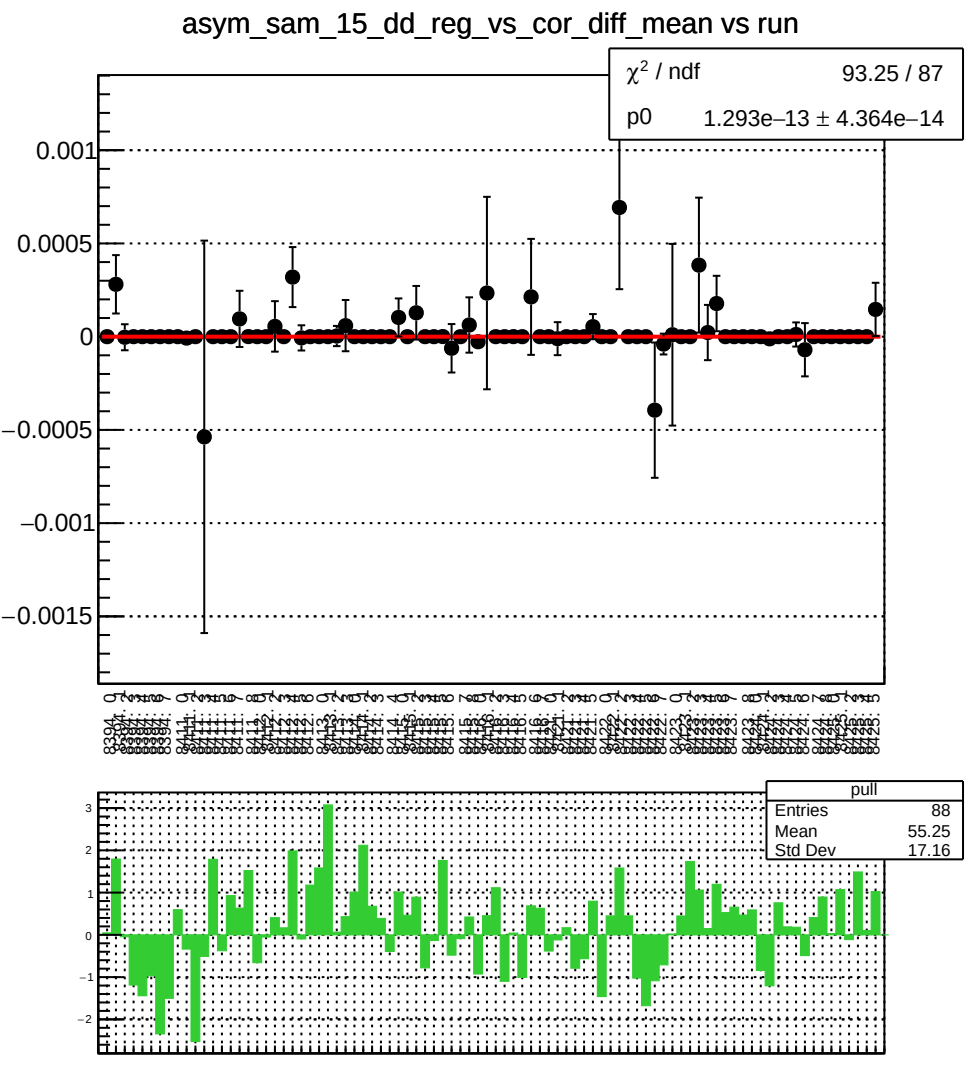

pull1D
Entries 88
Mean 0.0007568
Std Dev 1.023
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

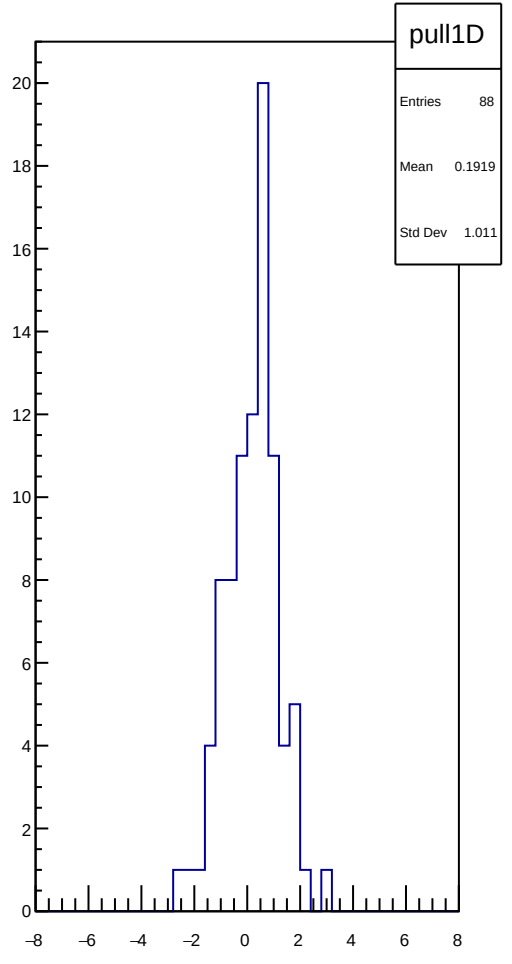

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 9017 / 87
p0 638 ± 0.4917
800
750
700
650
600
550

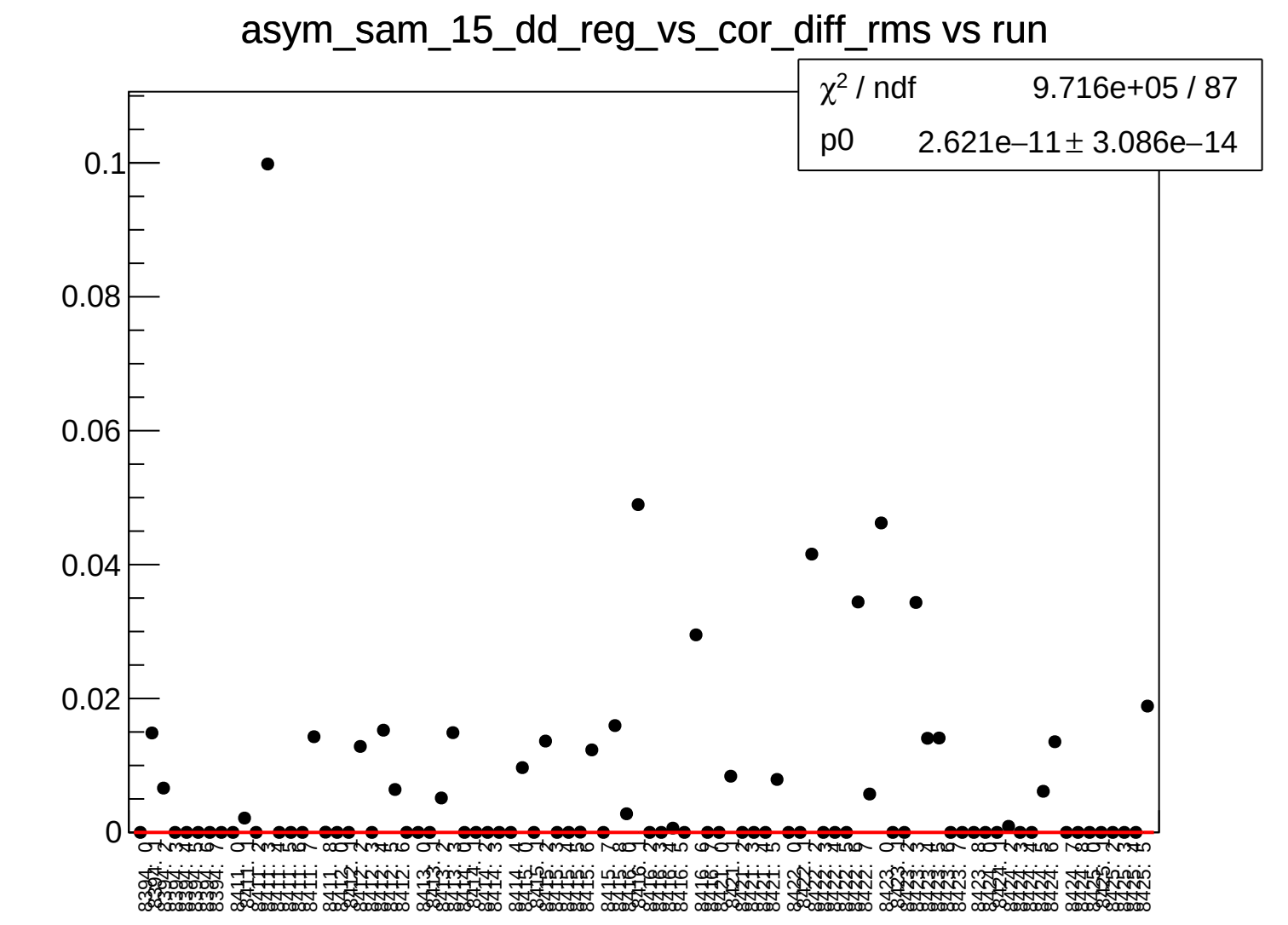

asym_sam_15_dd_mean vs run
χ² / ndf 91.08 / 87
p0 −2033 ± 688.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 1348
Std Dev 0
2
1
0
−1
−2

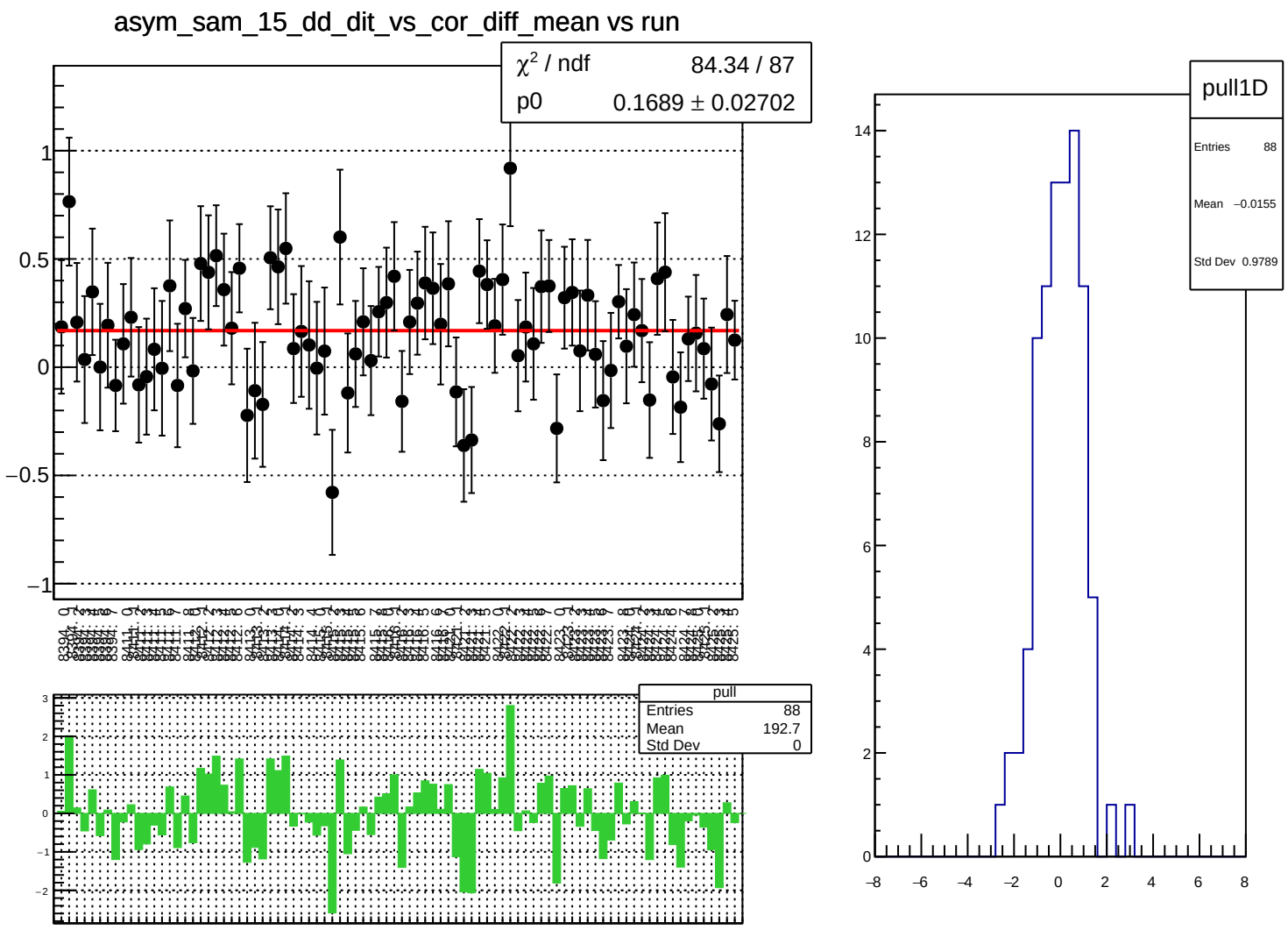

pull1D
Entries 88
Mean −0.0003061
Std Dev 1.017
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

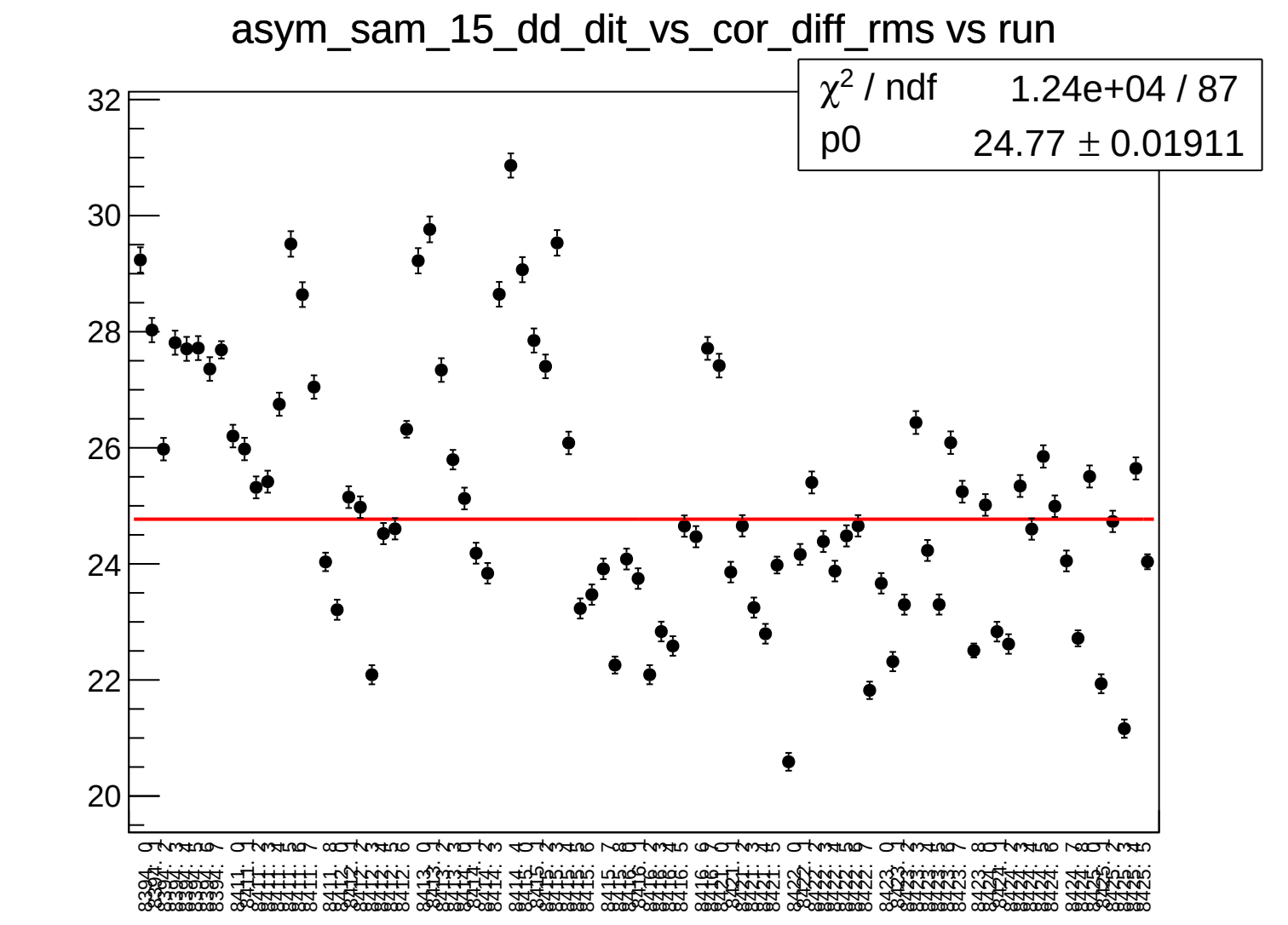

asym_sam_15_dd_rms vs run
χ² / ndf 9355 / 87
p0 631.6 ± 0.4868
800
750
700
650
600
550

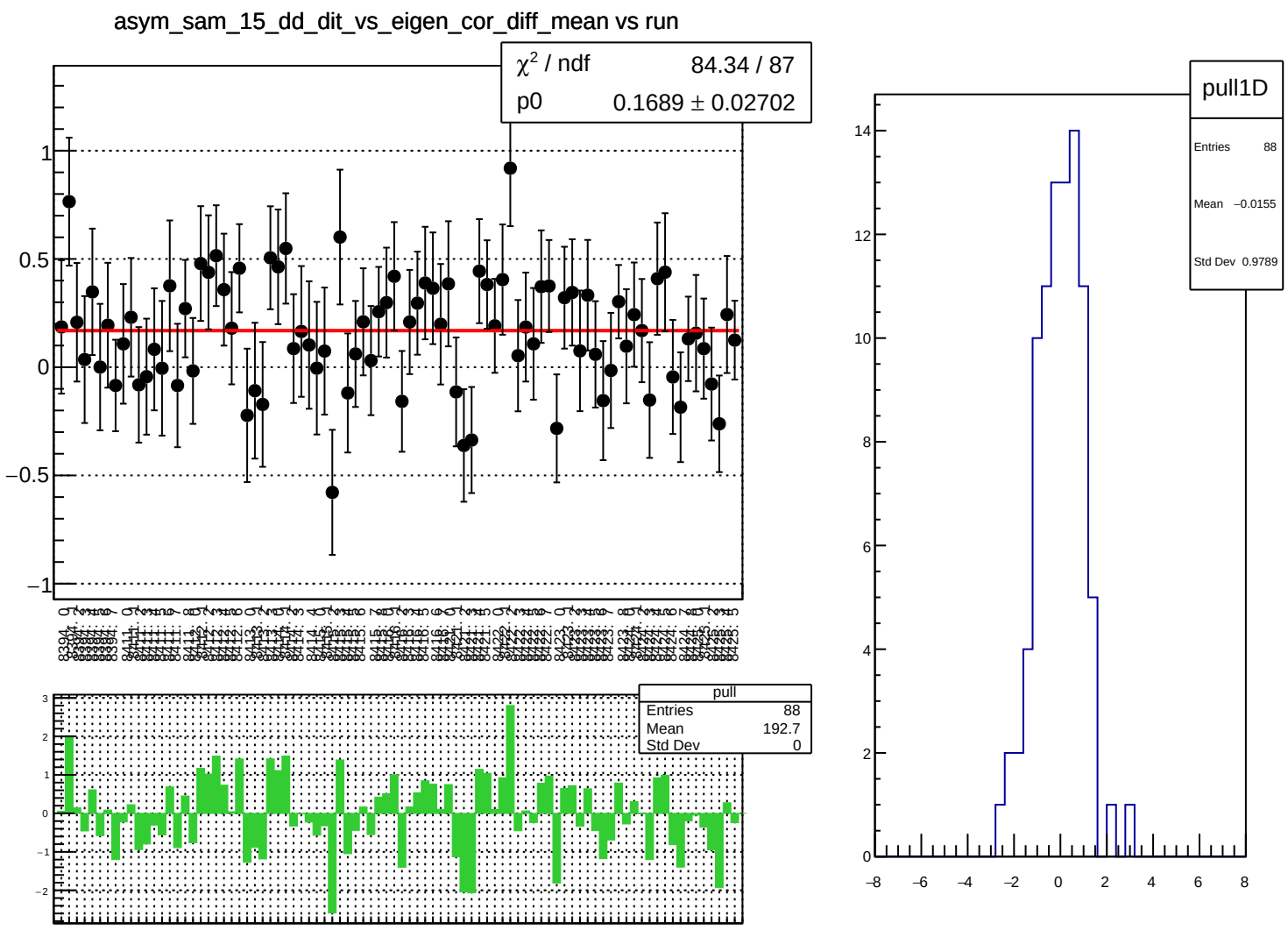

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 93.25 / 87
p0 1.293e−13 ± 4.364e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 88
Mean 55.25
Std Dev 17.16
3
2
1
0
−1
−2

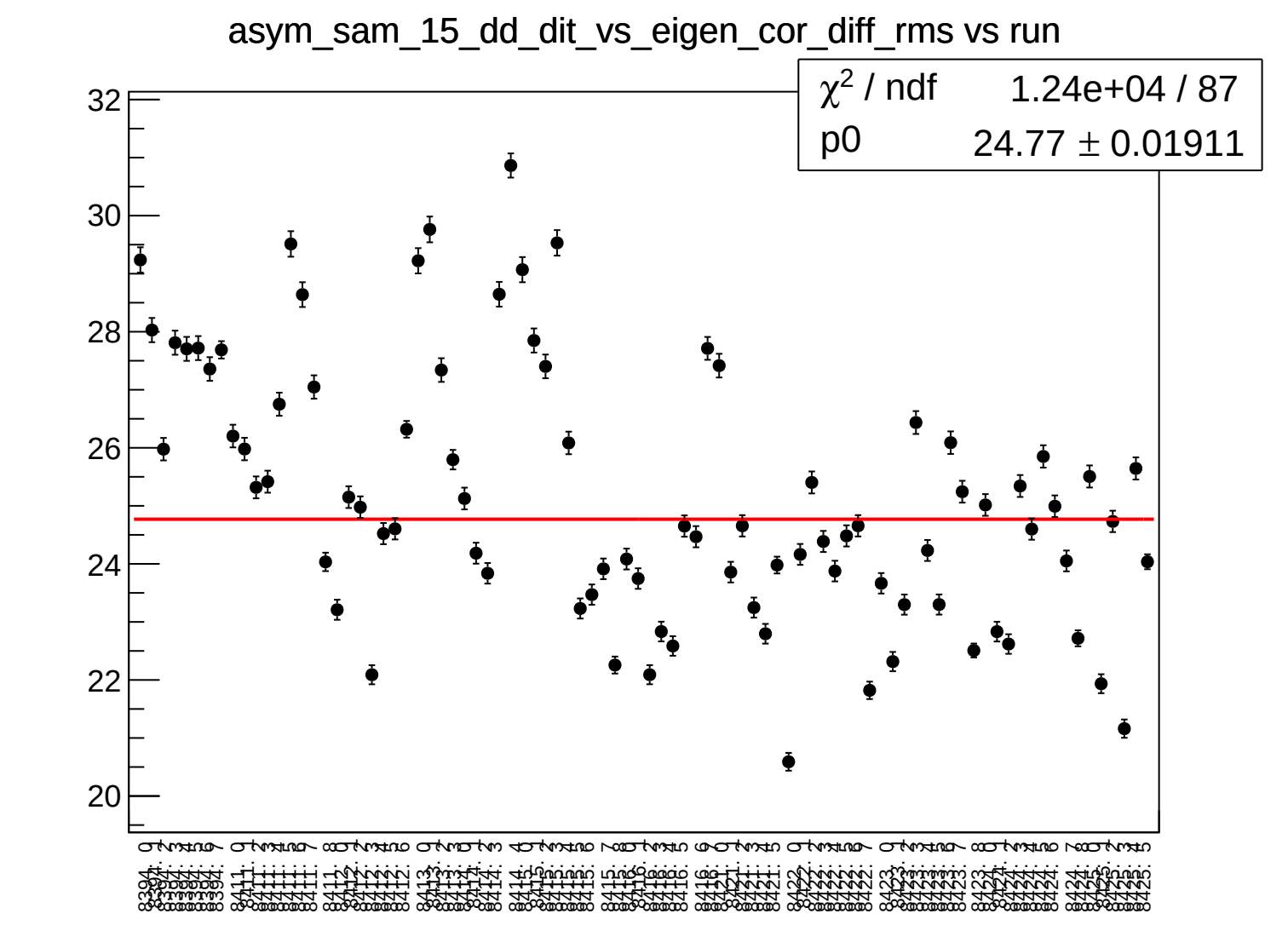

pull1D
Entries 88
Mean 0.1919
Std Dev 1.011
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

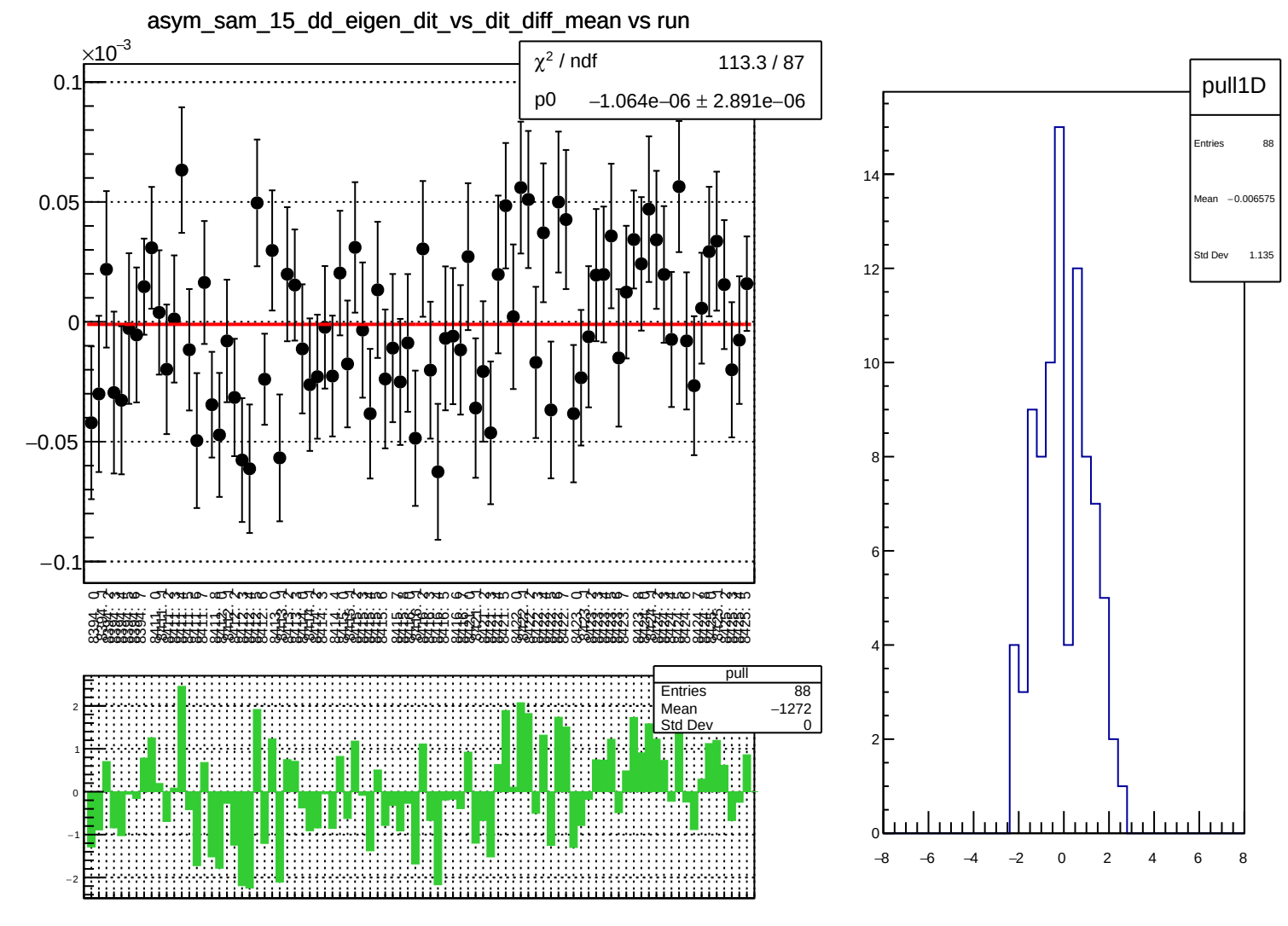

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.716e+05 / 87
p0 2.621e−11 ± 3.086e−14
0.1
0.08
0.06
0.04
0.02
0

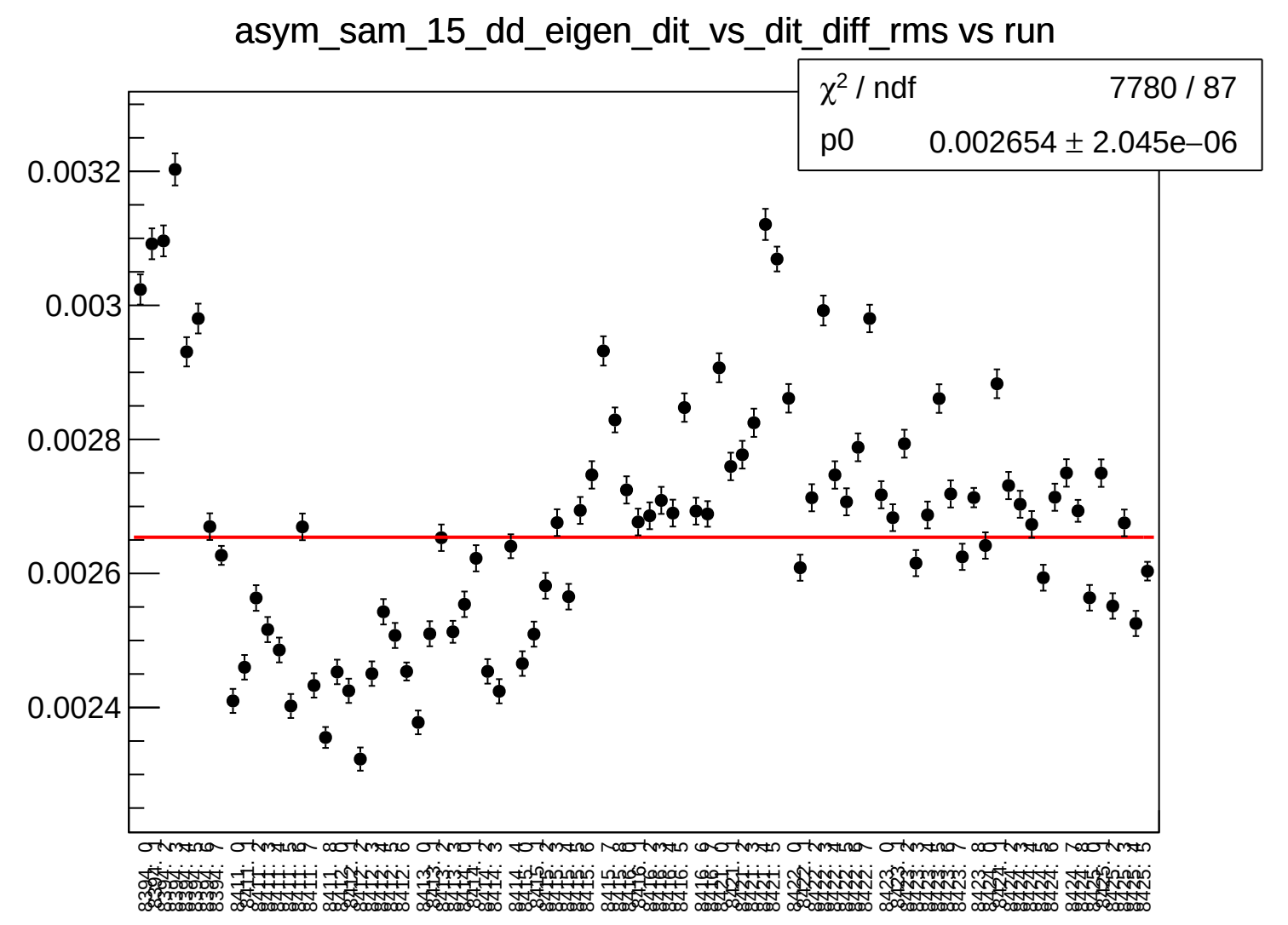

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.34 / 87
p0 0.1689 ± 0.02702
pull
Entries 88
Mean 192.7
Std Dev 0
pull1D
Entries 88
Mean −0.0155
Std Dev 0.9789

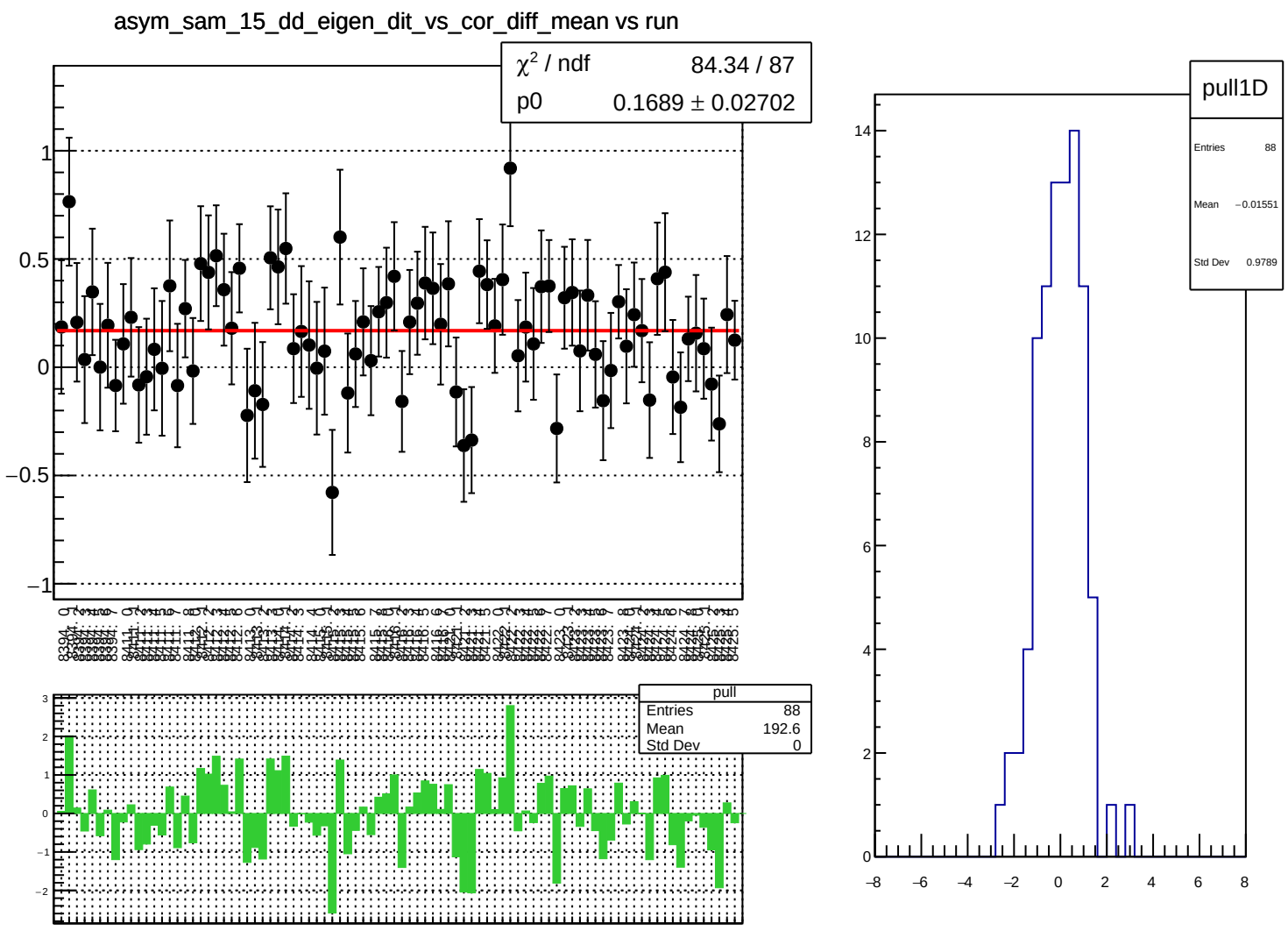

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.24e+04 / 87
p0 24.77 ± 0.01911
32
30
28
26
24
22
20

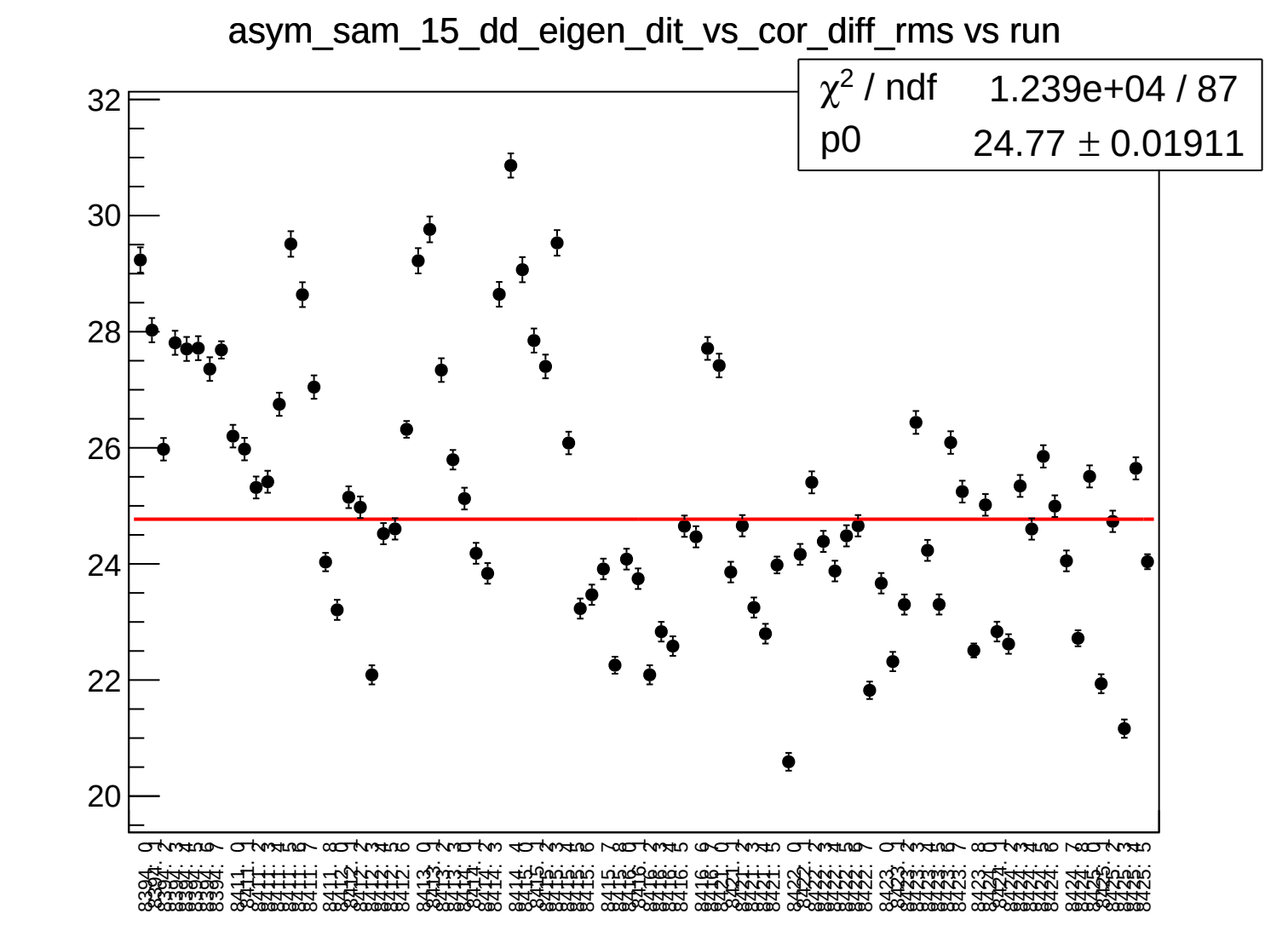

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.34 / 87
p0 0.1689 ± 0.02702
pull
Entries 88
Mean 192.7
Std Dev 0
pull1D
Entries 88
Mean −0.0155
Std Dev 0.9789

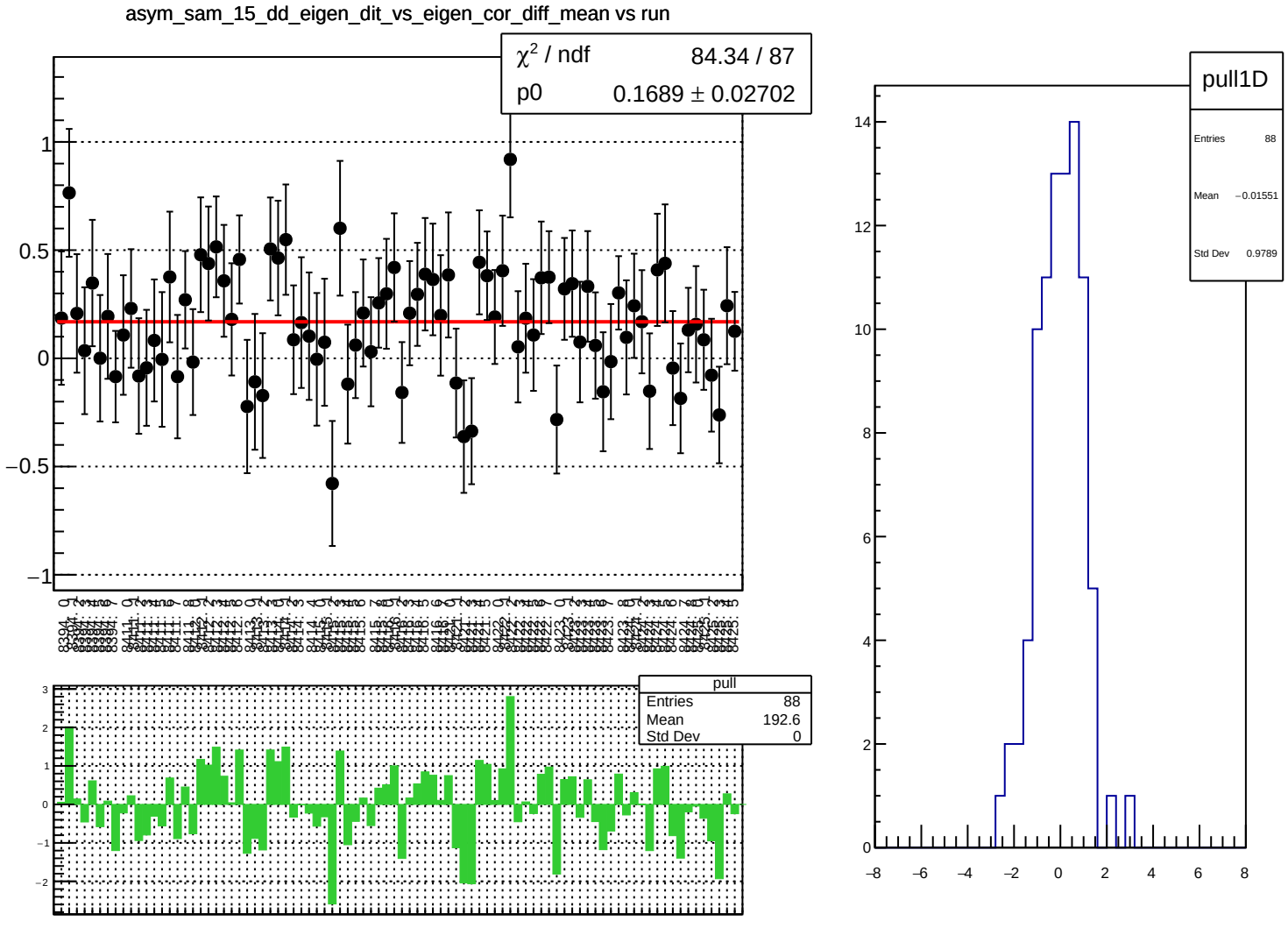

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.24e+04 / 87
p0 24.77 ± 0.01911
32
30
28
26
24
22
20

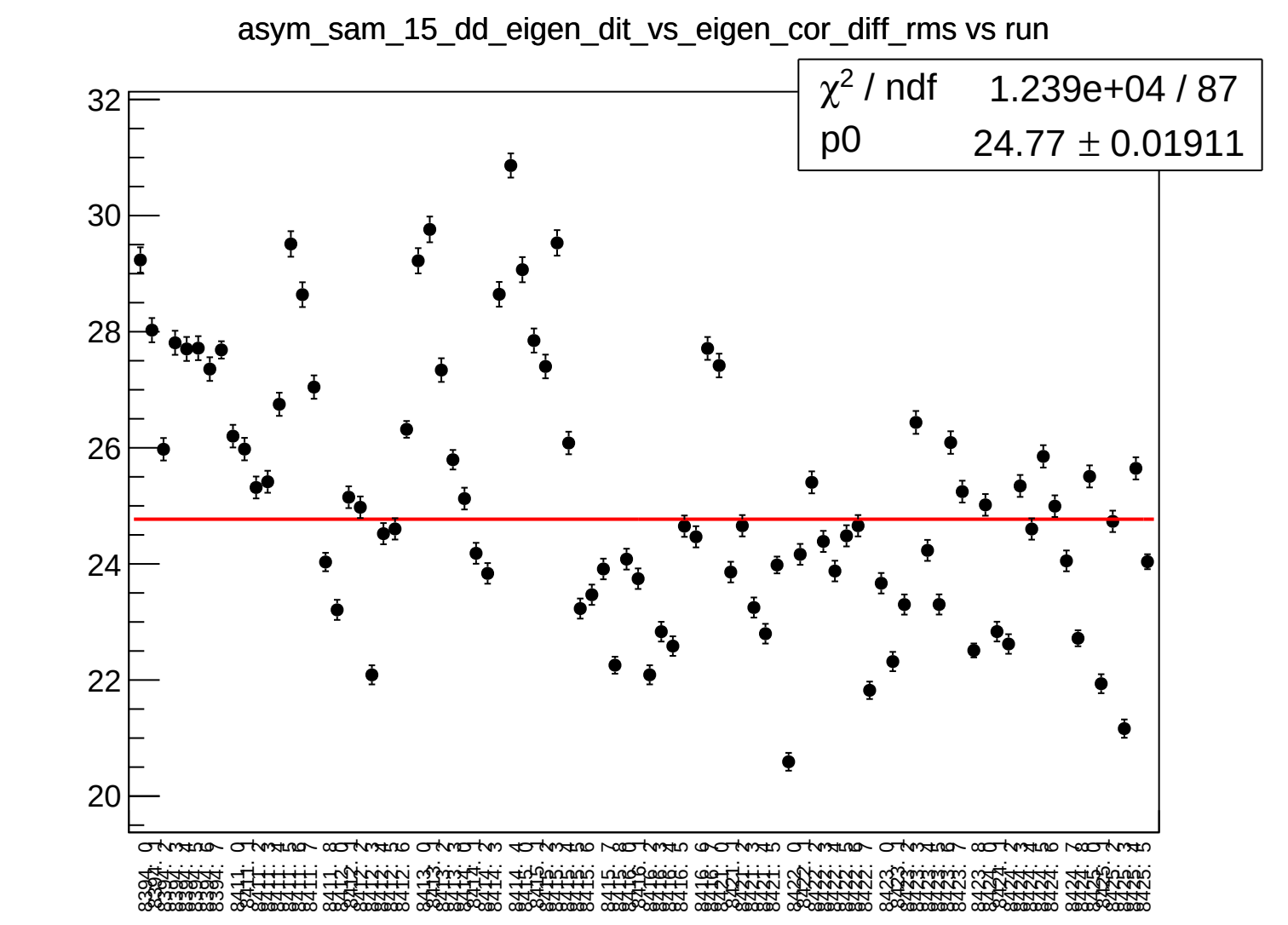

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 113.3 / 87
p0 −1.064e−06 ± 2.891e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean −1272
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.006575
Std Dev 1.135
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

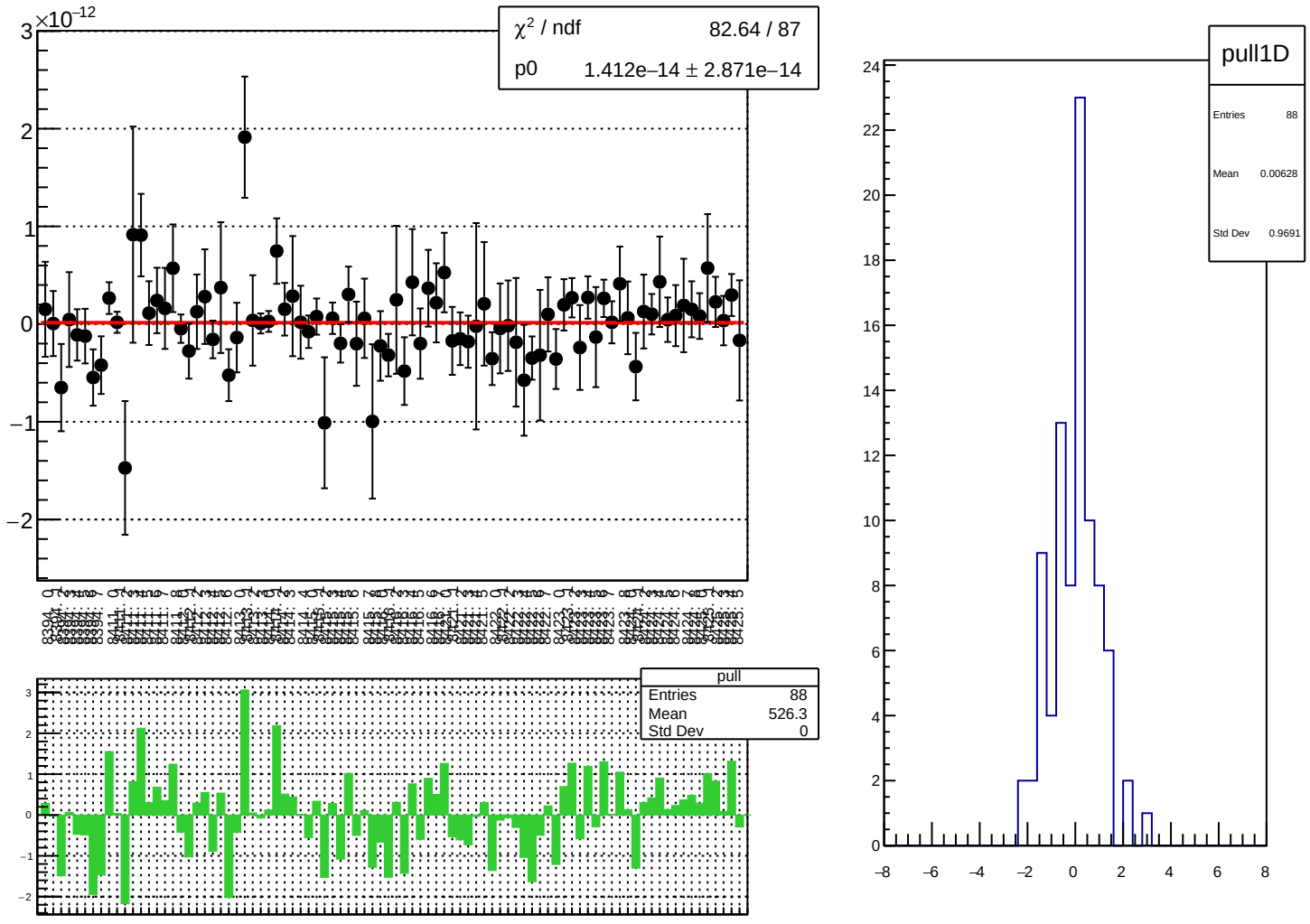

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7780 / 87
p0 0.002654 ± 2.045e−06
0.0032
0.003
0.0028
0.0026
0.0024

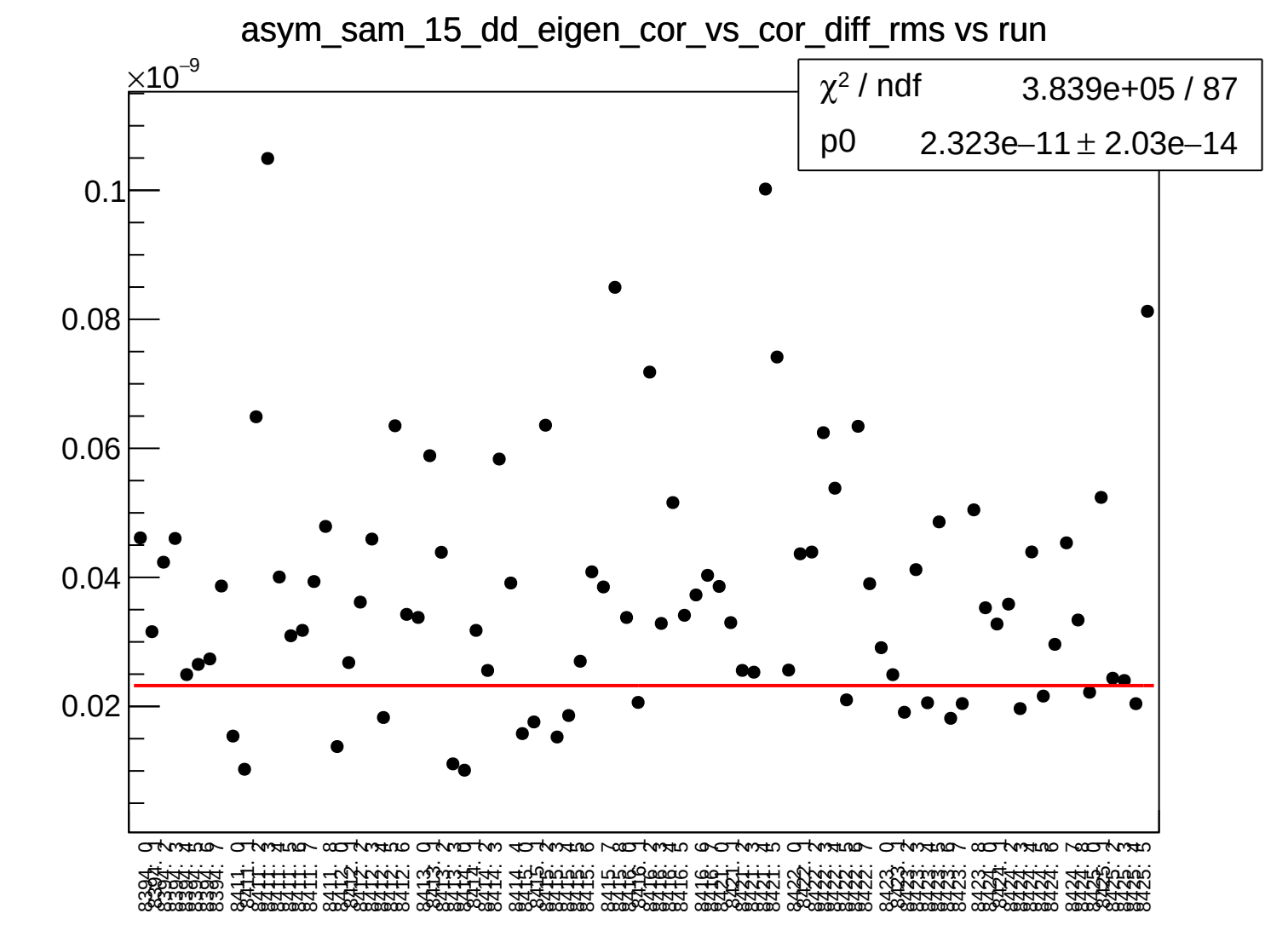

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.34 / 87
p0 0.1689 ± 0.02702
pull
Entries 88
Mean 192.6
Std Dev 0
pull1D
Entries 88
Mean −0.01551
Std Dev 0.9789

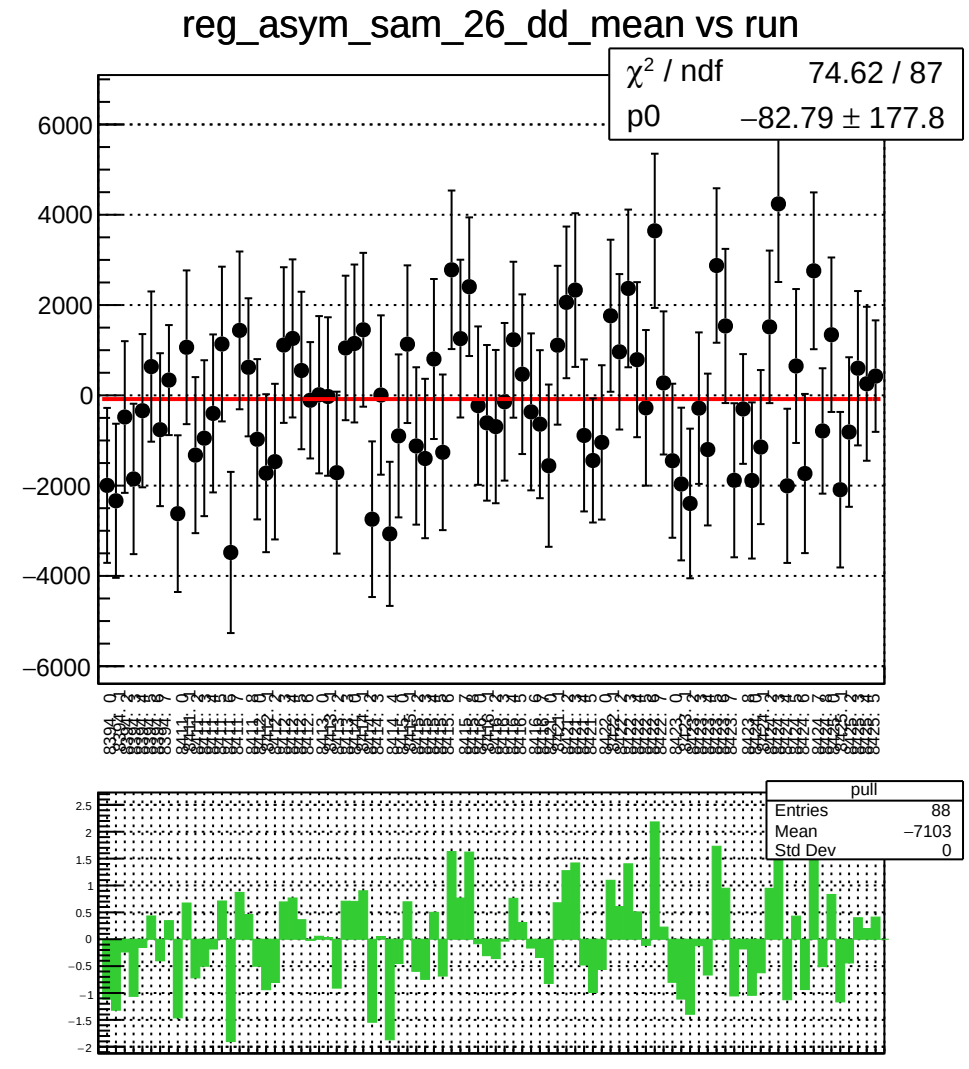

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.239e+04 / 87
p0 24.77 ± 0.01911
32
30
28
26
24
22
20

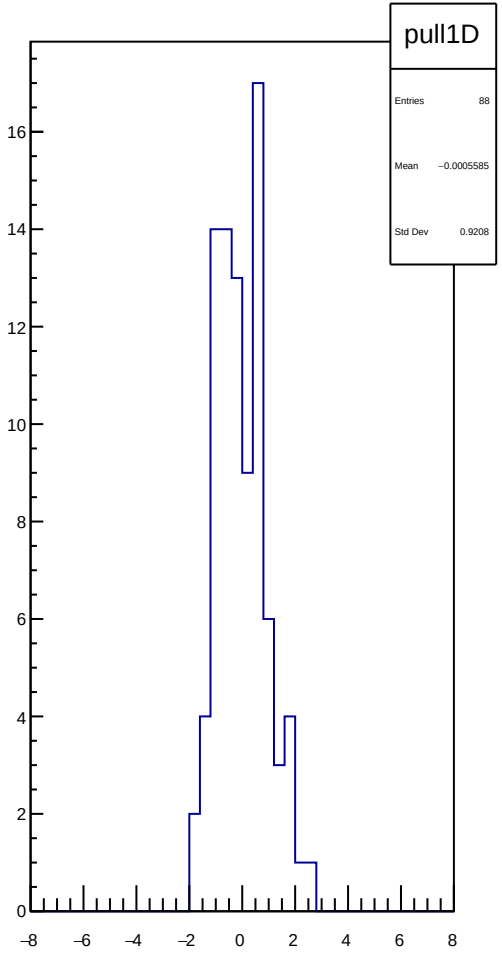

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.34 / 87
p0 0.1689 ± 0.02702
pull
Entries 88
Mean 192.6
Std Dev 0
pull1D
Entries 88
Mean −0.01551
Std Dev 0.9789

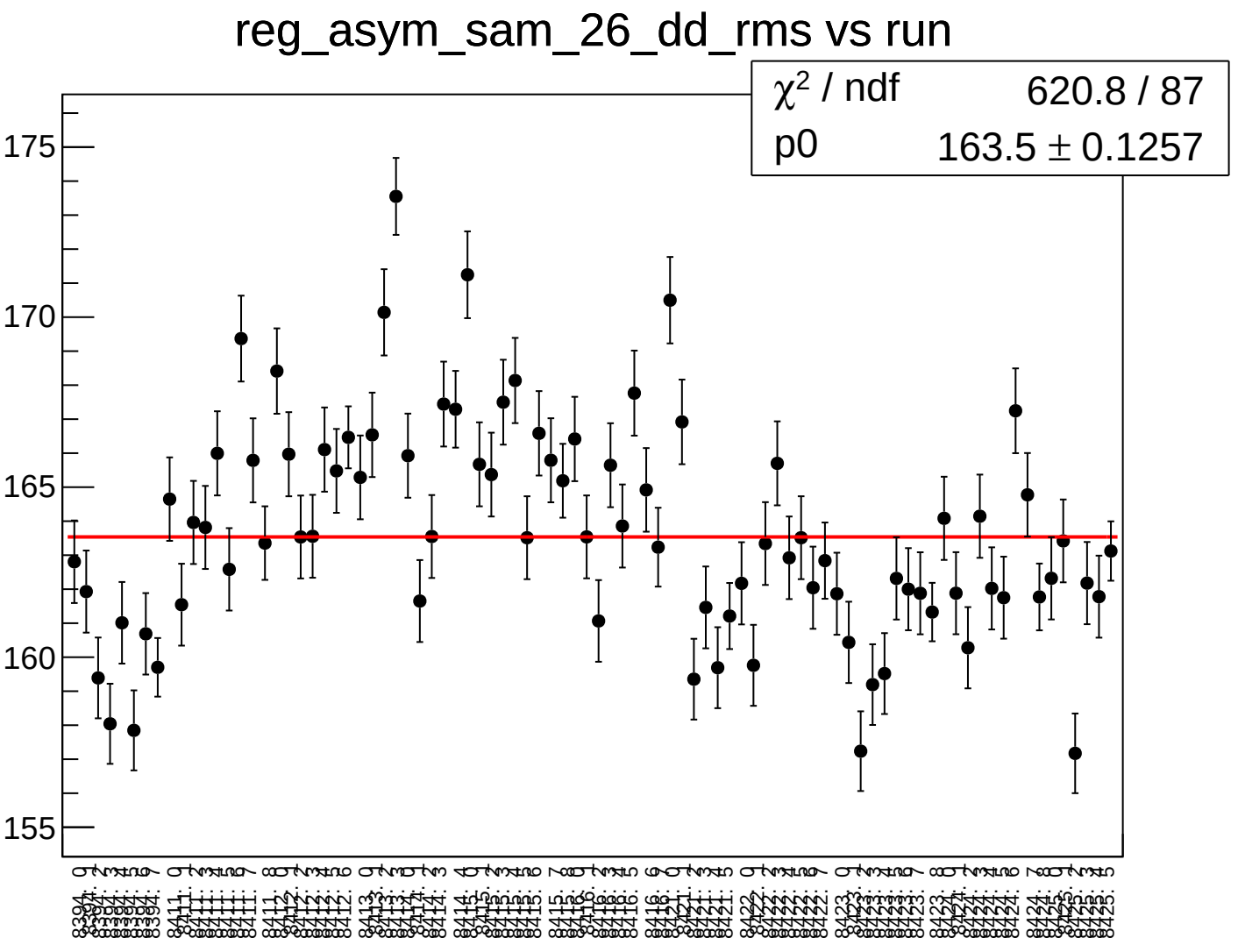

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.239e+04 / 87
p0 24.77 ± 0.01911
32
30
28
26
24
22
20

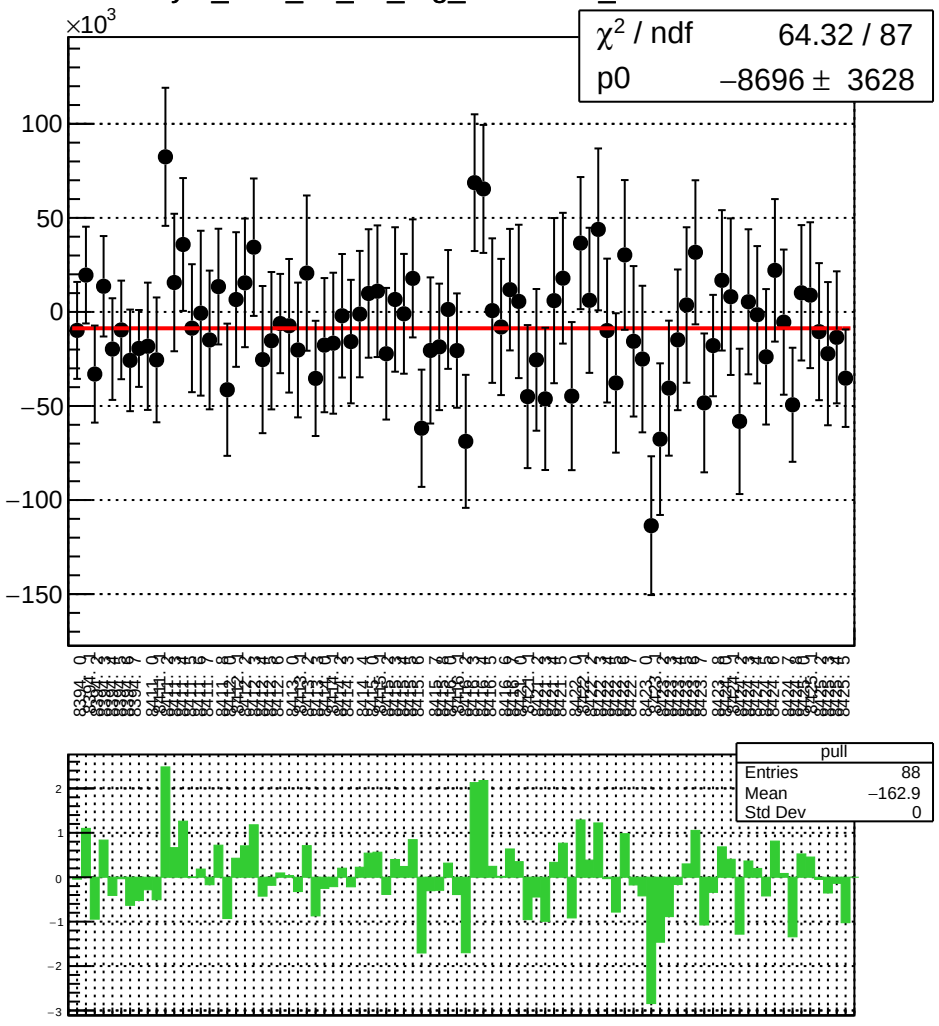

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.64 / 87
p0 1.412e−14 ± 2.871e−14
pull
Entries 88
Mean 526.3
Std Dev 0
pull1D
Entries 88
Mean 0.00628
Std Dev 0.9691

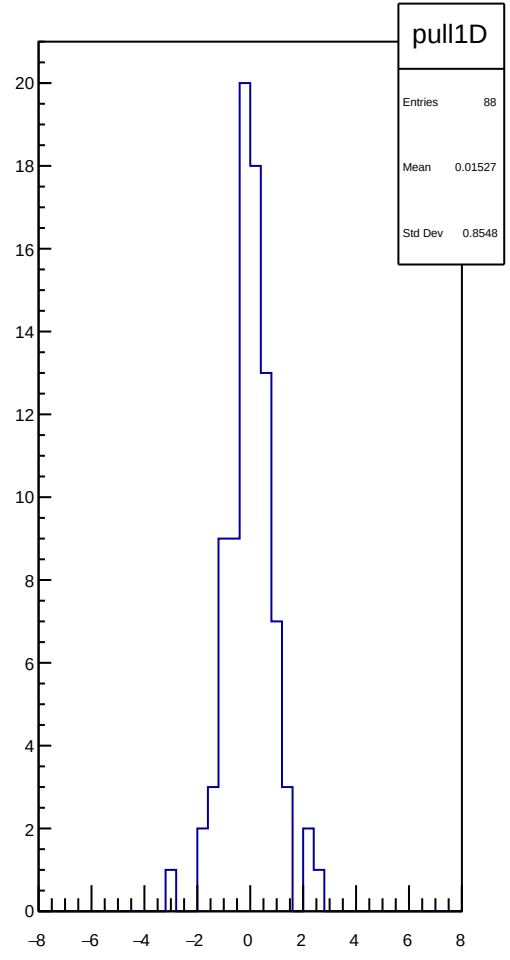

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.839e+05 / 87
p0 2.323e−11 ± 2.03e−14
0.1
0.08
0.06
0.04
0.02

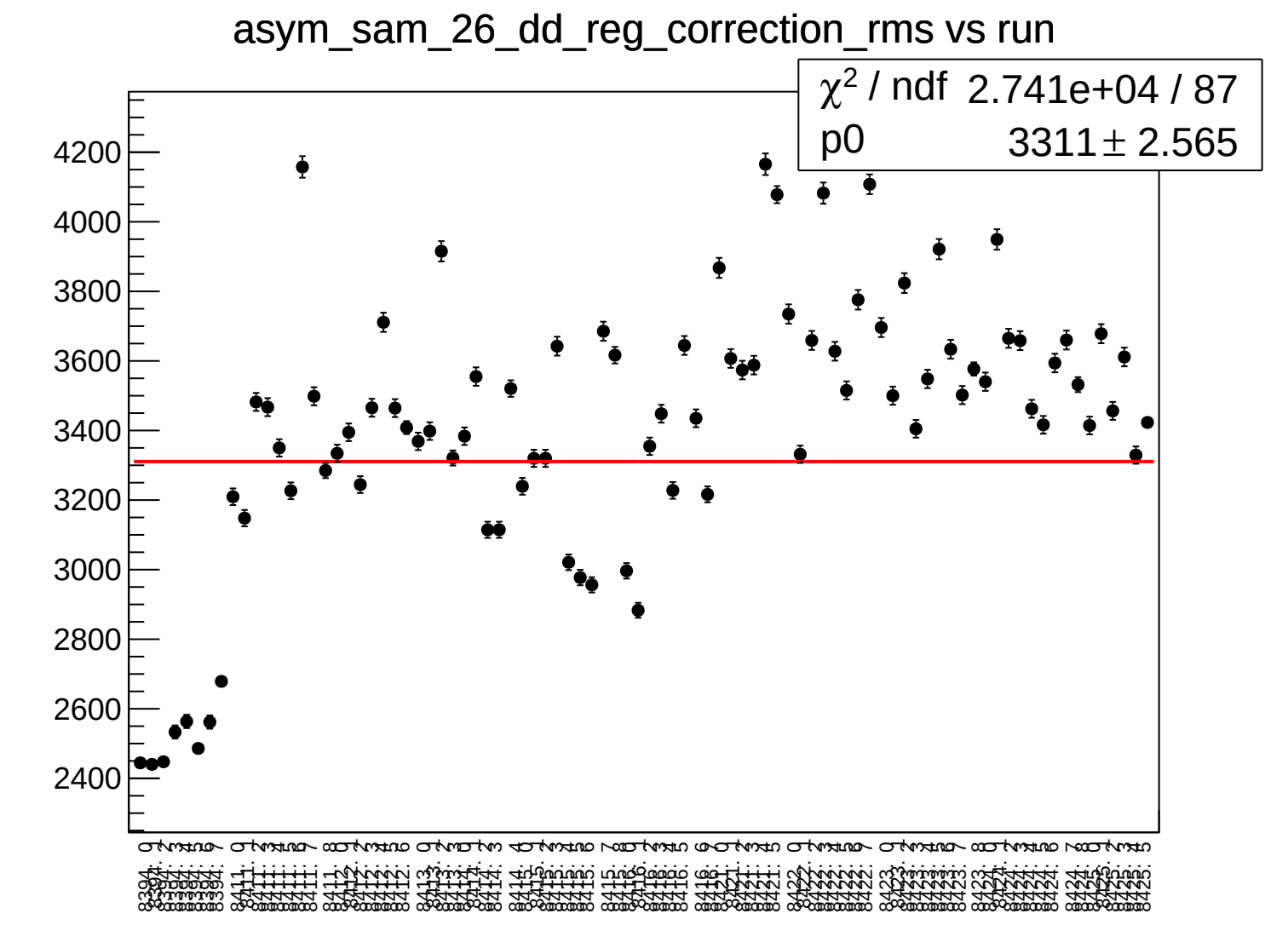

reg_asym_sam_26_dd_mean vs run
χ² / ndf 74.62 / 87
p0 −82.79 ± 177.8
pull
Entries 88
Mean −7103
Std Dev 0

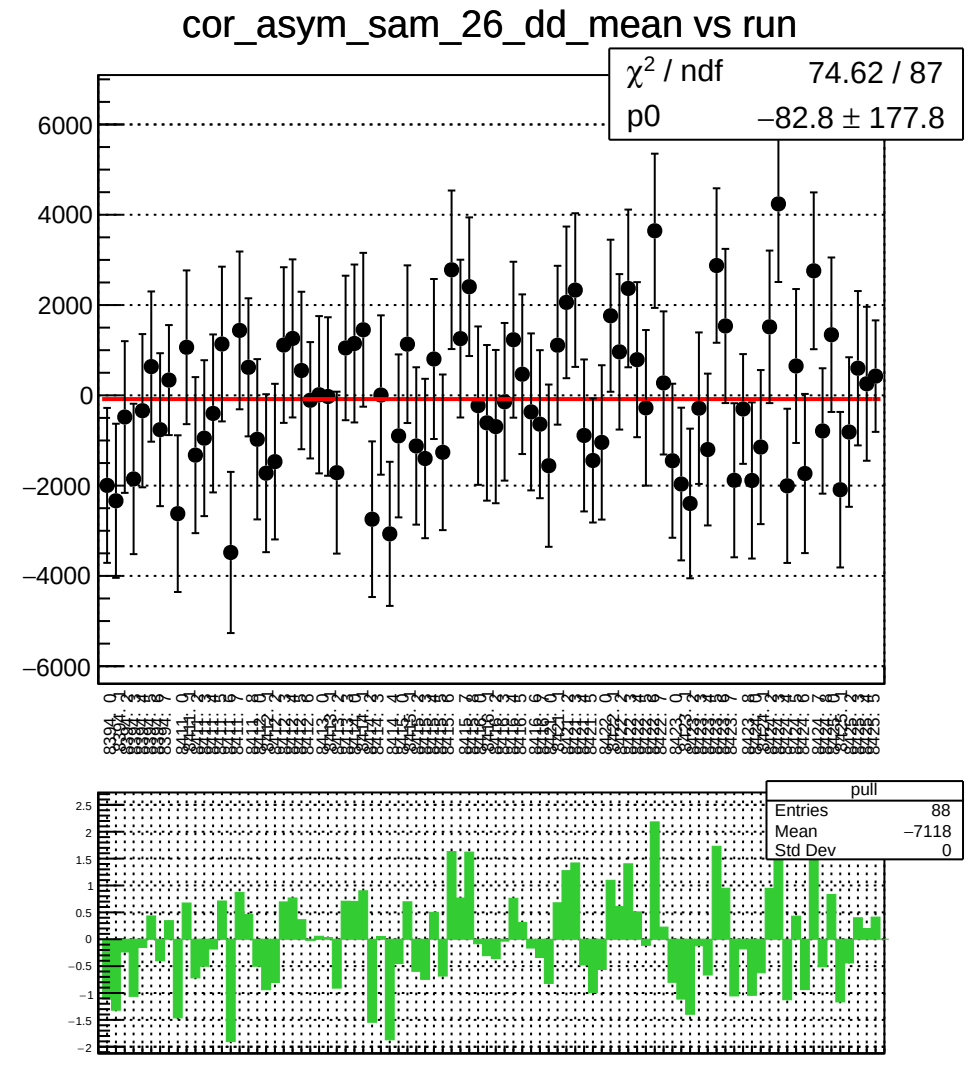

pull1D
Entries 88
Mean −0.0005585
Std Dev 0.9208

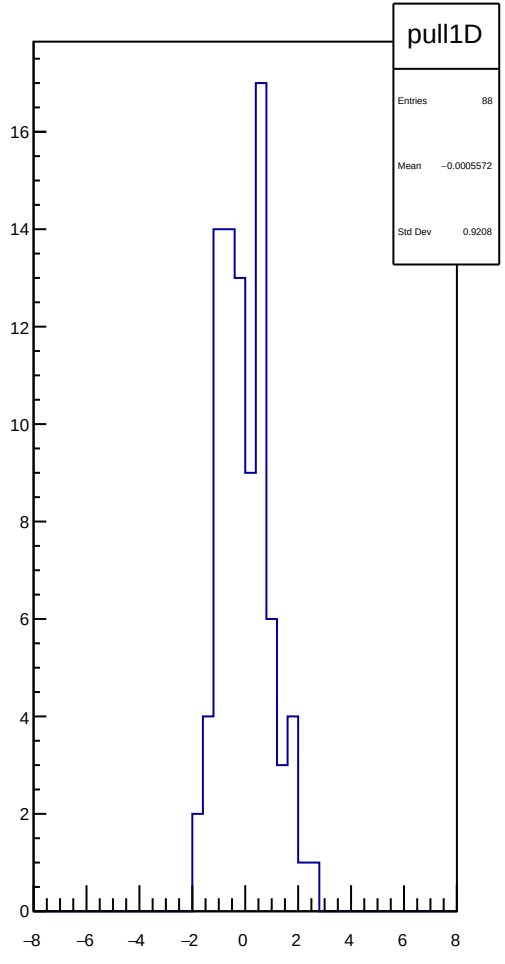

reg_asym_sam_26_dd_rms vs run
χ² / ndf 620.8 / 87
p0 163.5 ± 0.1257
175
170
165
160
155

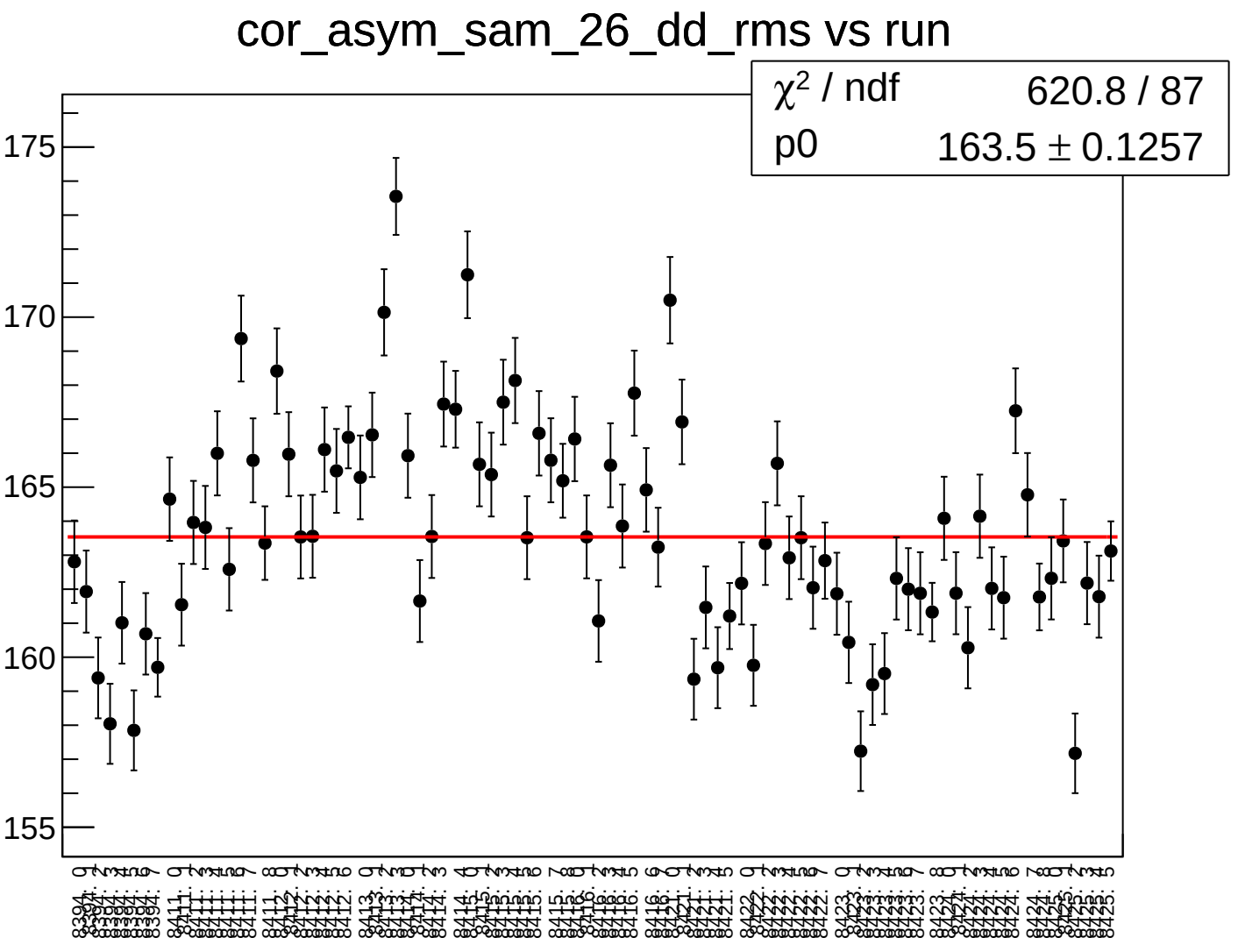

asym_sam_26_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 64.32 / 87
p0 −8696 ± 3628
100
50
0
−50
−100
−150
pull
Entries 88
Mean −162.9
Std Dev 0
2
1
0
−1
−2
−3

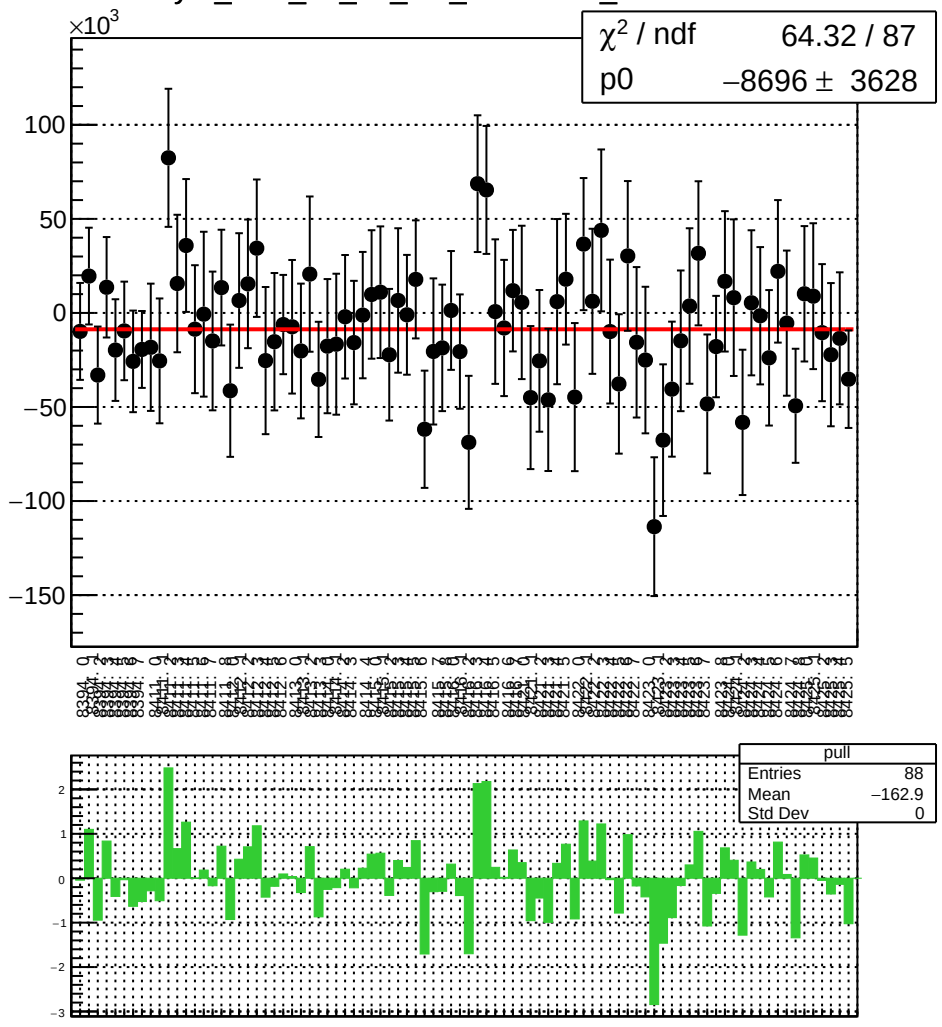

pull1D
Entries 88
Mean 0.01527
Std Dev 0.8548
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

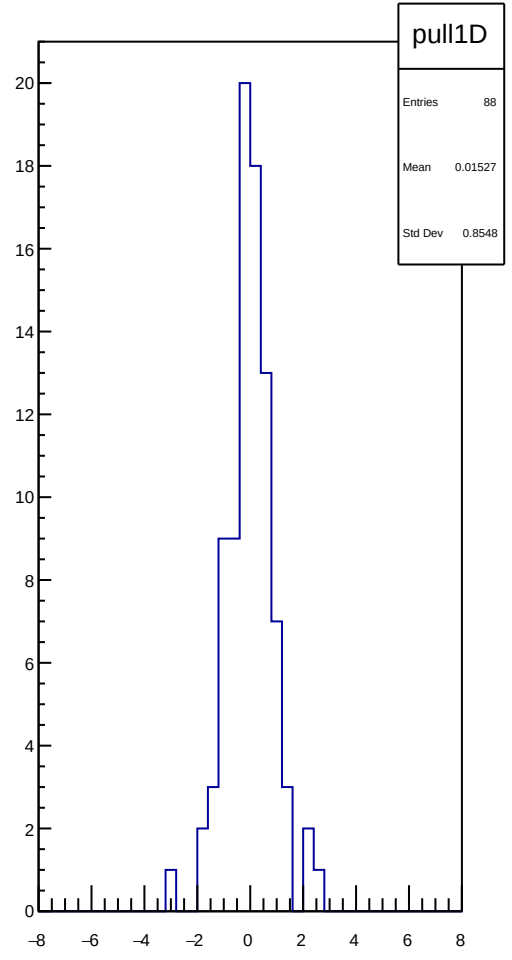

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 2.741e+04 / 87
p0 3311 ± 2.565
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400

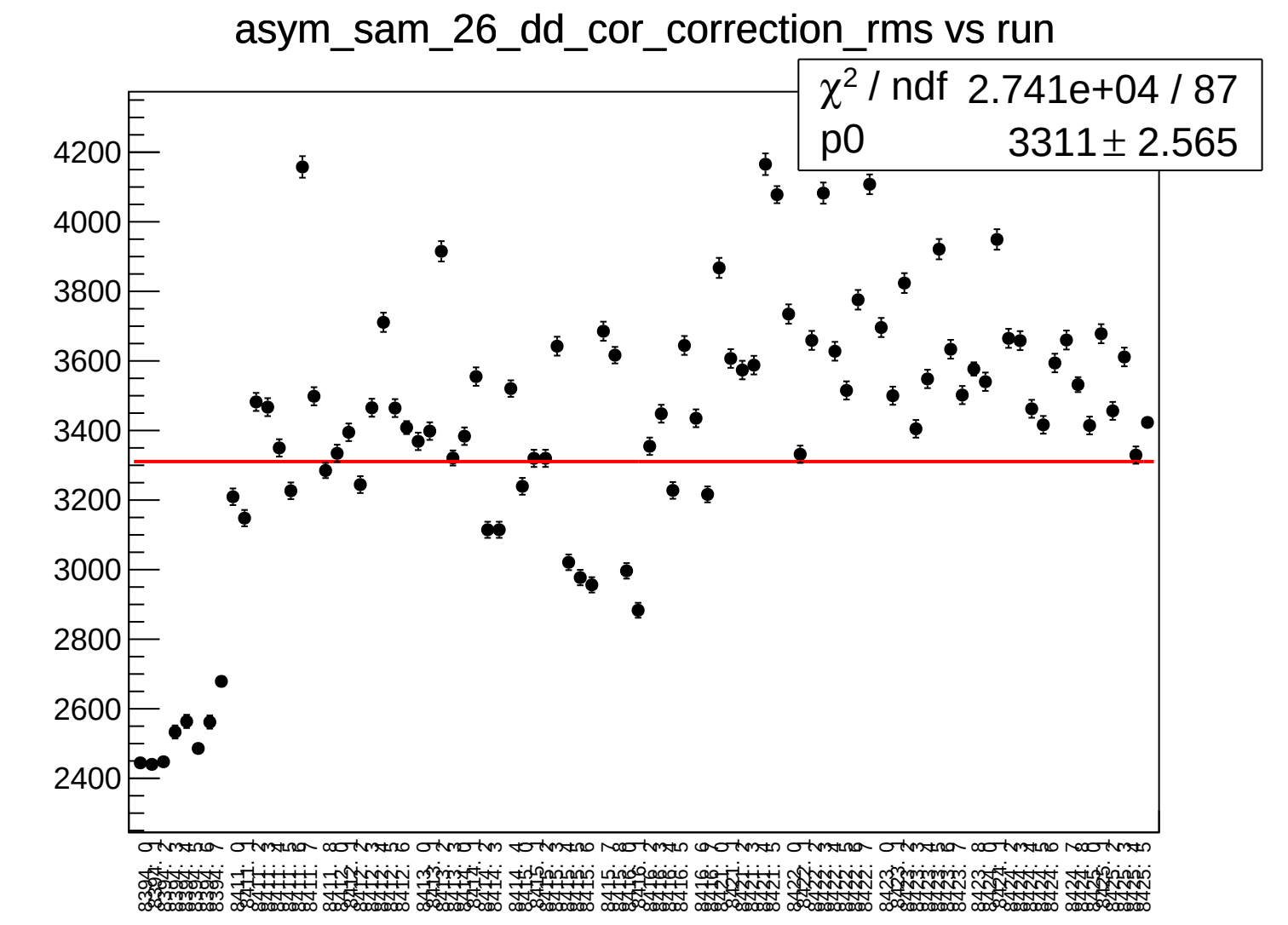

cor_asym_sam_26_dd_mean vs run
χ² / ndf 74.62 / 87
p0 −82.8 ± 177.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −7118
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

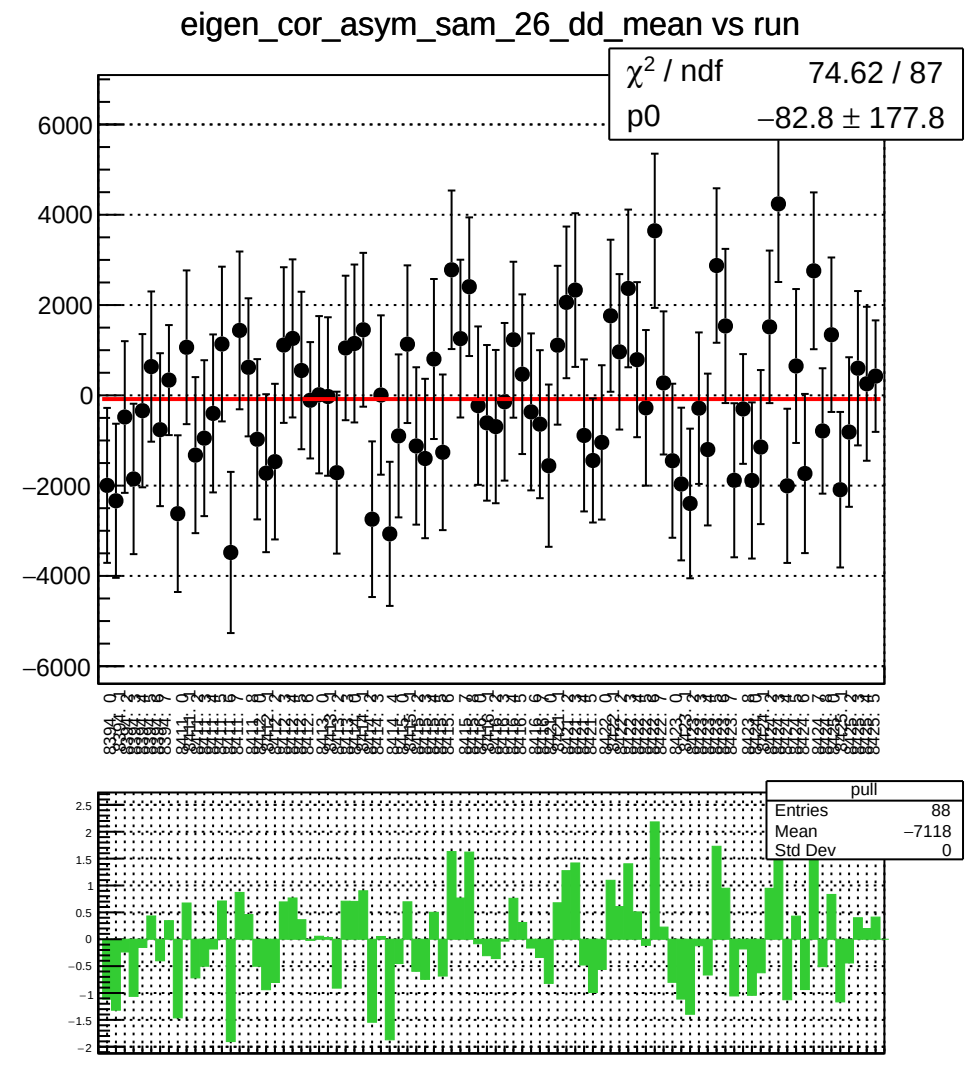

pull1D
Entries 88
Mean −0.0005572
Std Dev 0.9208
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

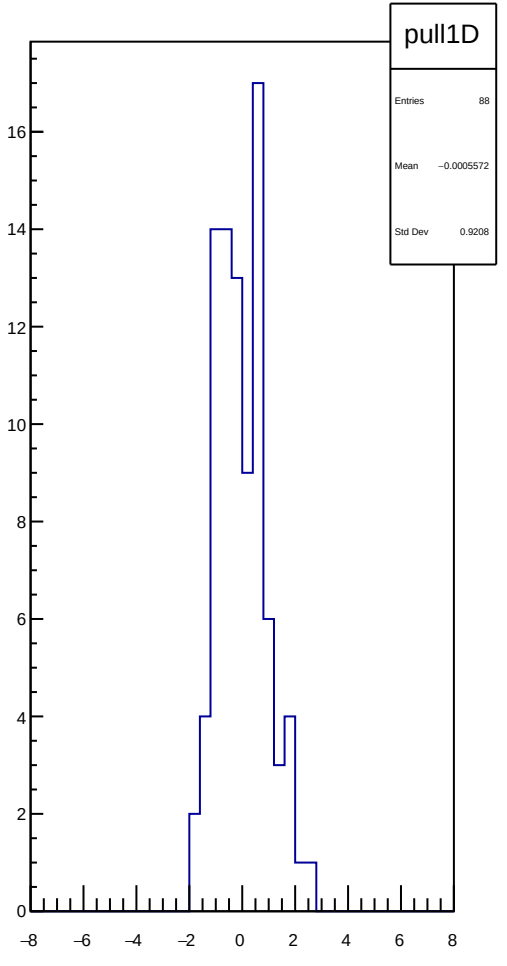

cor_asym_sam_26_dd_rms vs run
χ² / ndf 620.8 / 87
p0 163.5 ± 0.1257
175
170
165
160
155

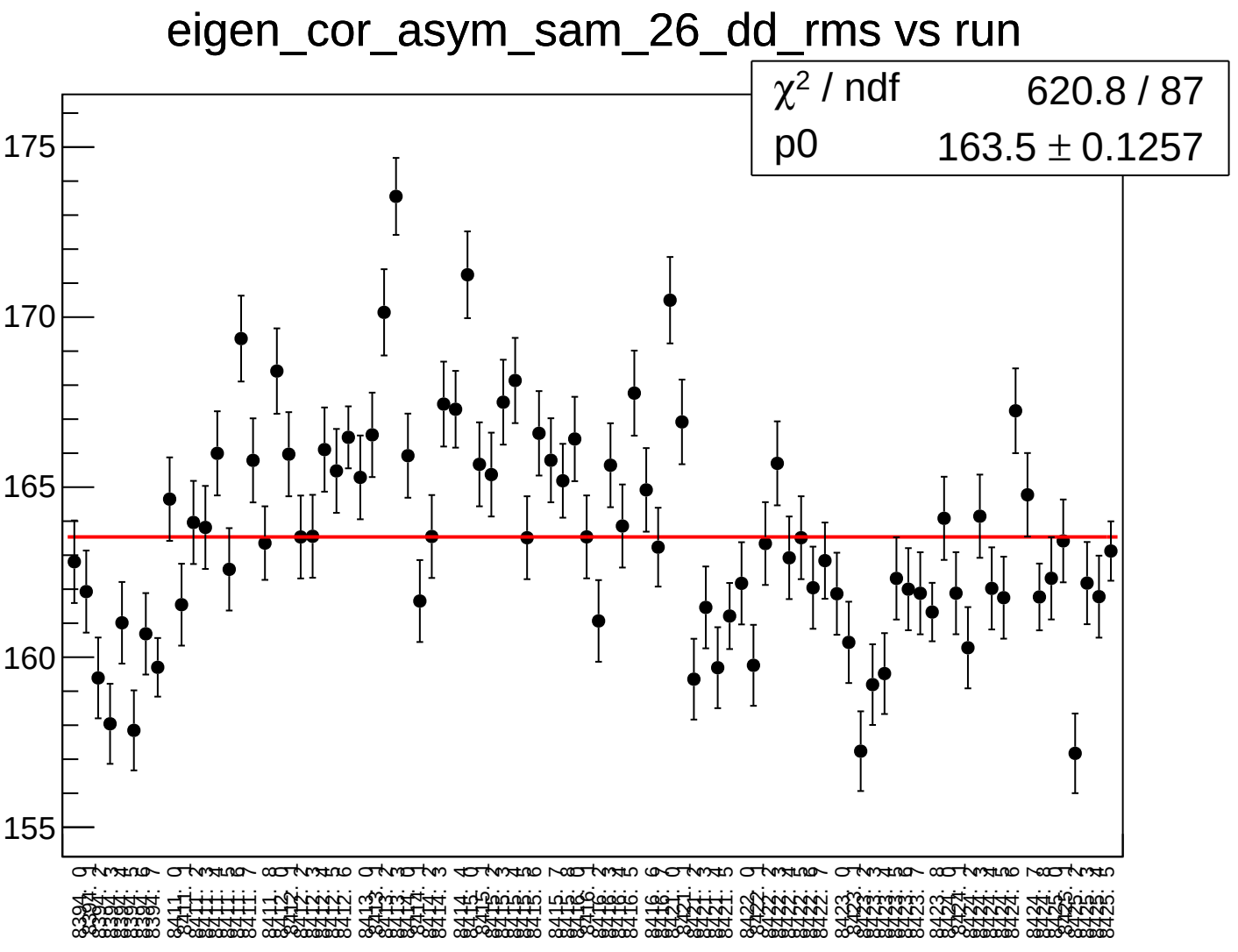

asym_sam_26_dd_cor_correction_mean vs run
×10^3
χ² / ndf 64.32 / 87
p0 −8696 ± 3628
100
50
0
−50
−100
−150
pull
Entries 88
Mean −162.9
Std Dev 0
2
1
0
−1
−2
−3

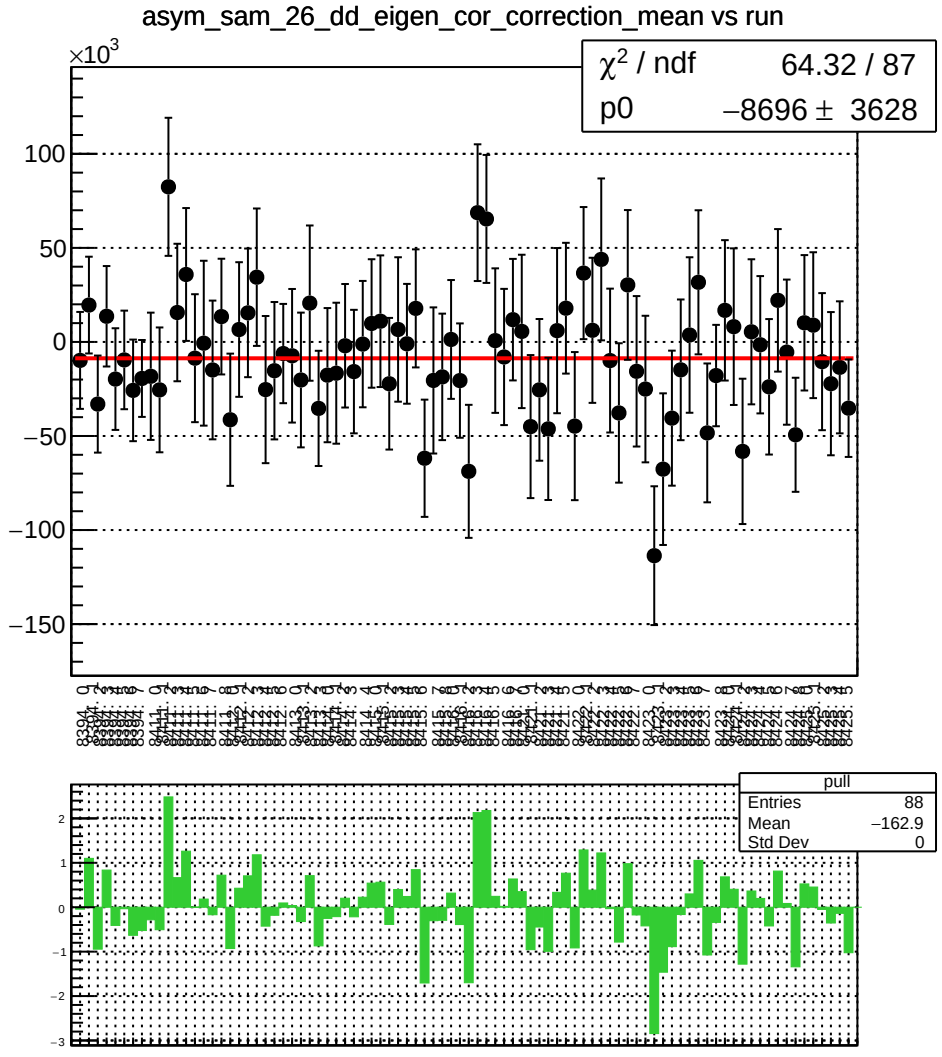

pull1D
Entries 88
Mean 0.01527
Std Dev 0.8548
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

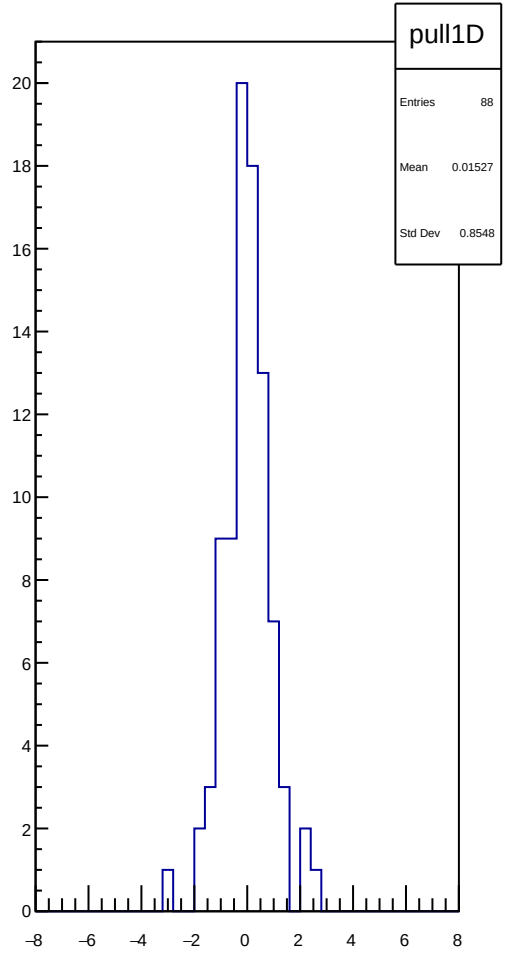

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 2.741e+04 / 87
p0 3311 ± 2.565
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400

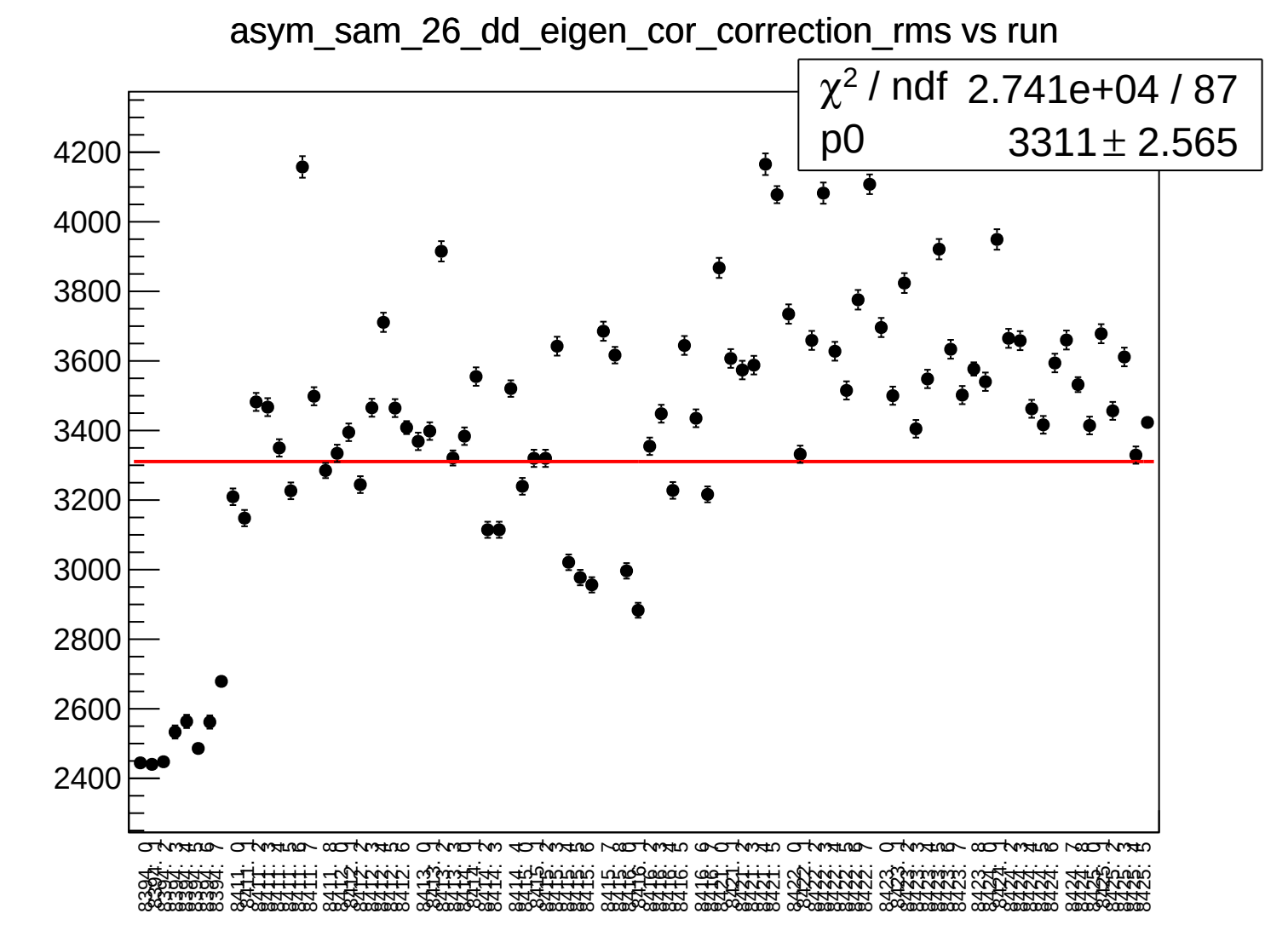

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 74.62 / 87
p0 −82.8 ± 177.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −7118
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

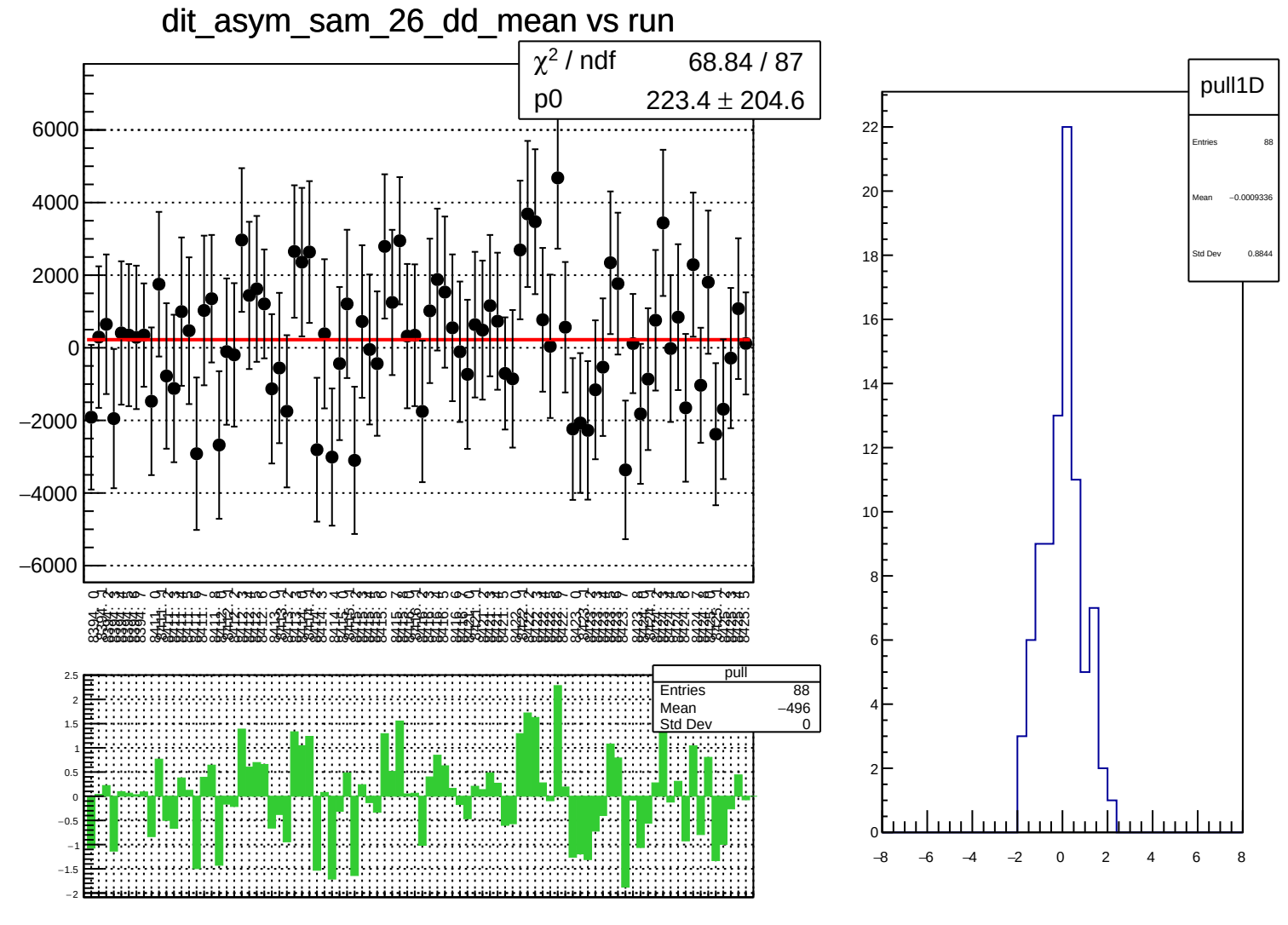

pull1D
Entries 88
Mean −0.0005572
Std Dev 0.9208
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

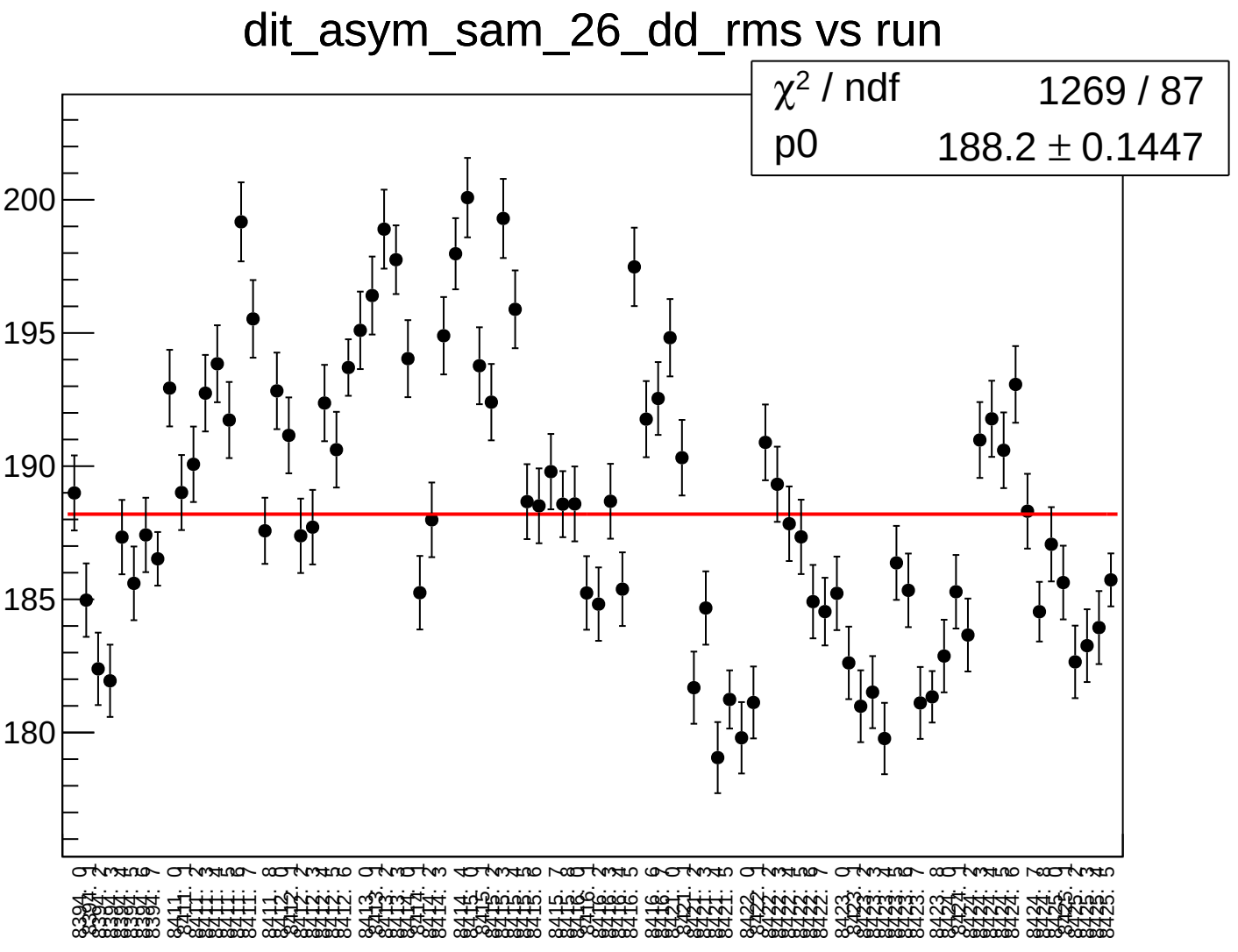

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 620.8 / 87
p0 163.5 ± 0.1257
175
170
165
160
155

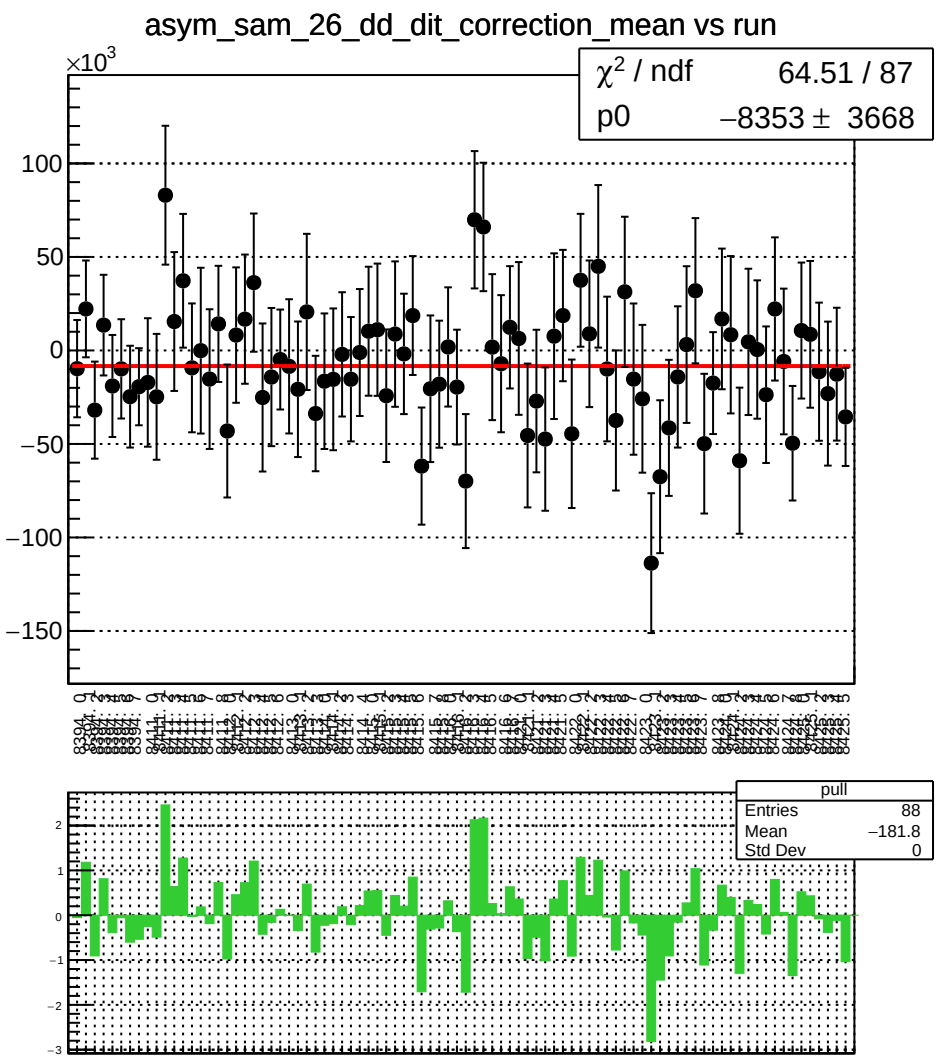

asym_sam_26_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 64.32 / 87
p0 −8696 ± 3628
100
50
0
−50
−100
−150
pull
Entries 88
Mean −162.9
Std Dev 0
2
1
0
−1
−2
−3

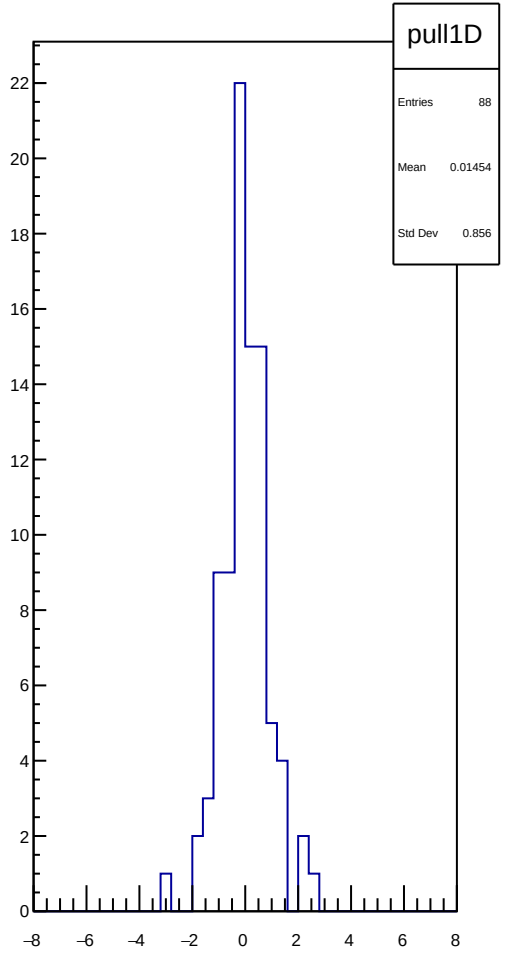

pull1D
Entries 88
Mean 0.01527
Std Dev 0.8548
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

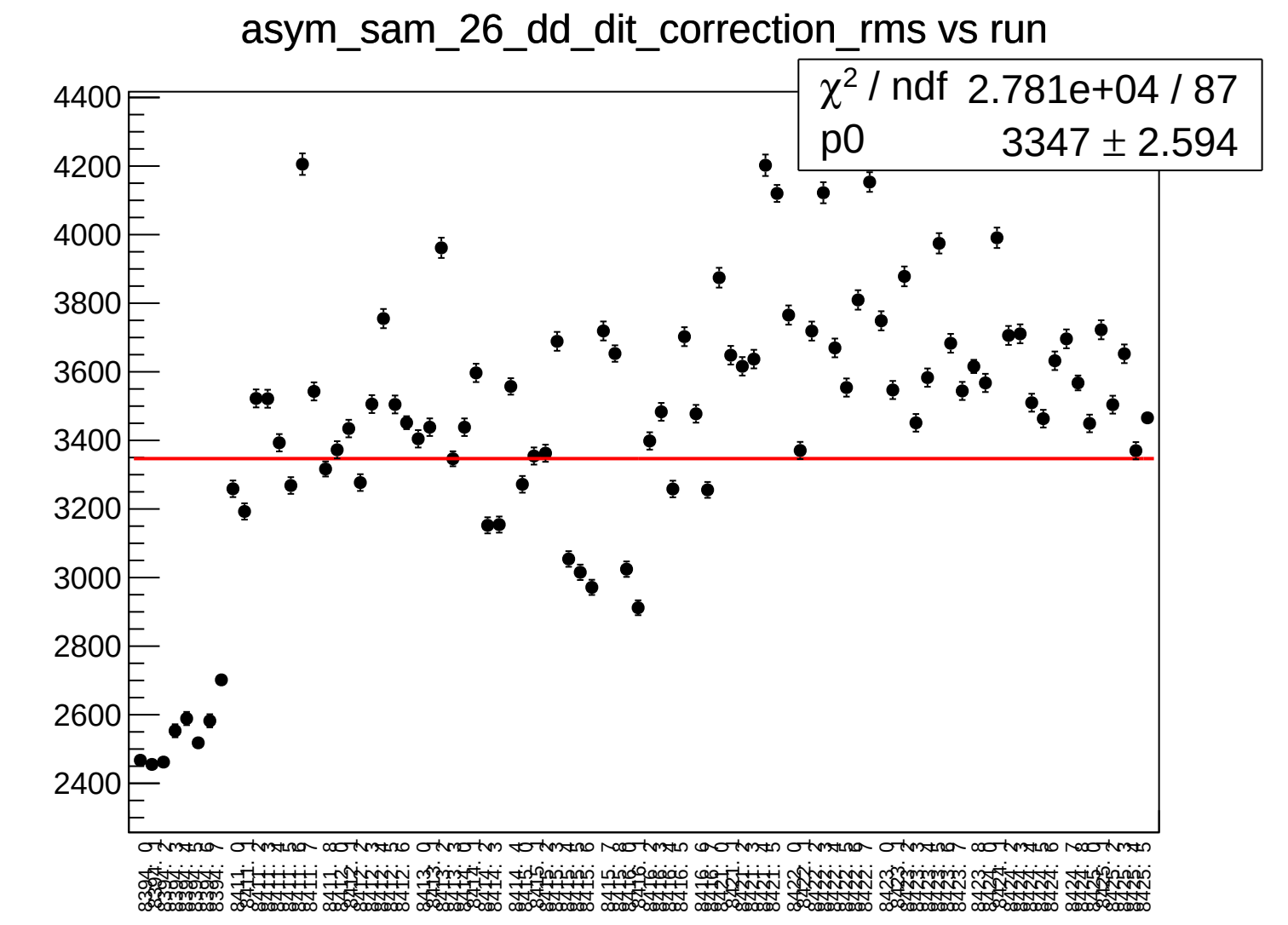

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.741e+04 / 87
p0 3311 ± 2.565
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400

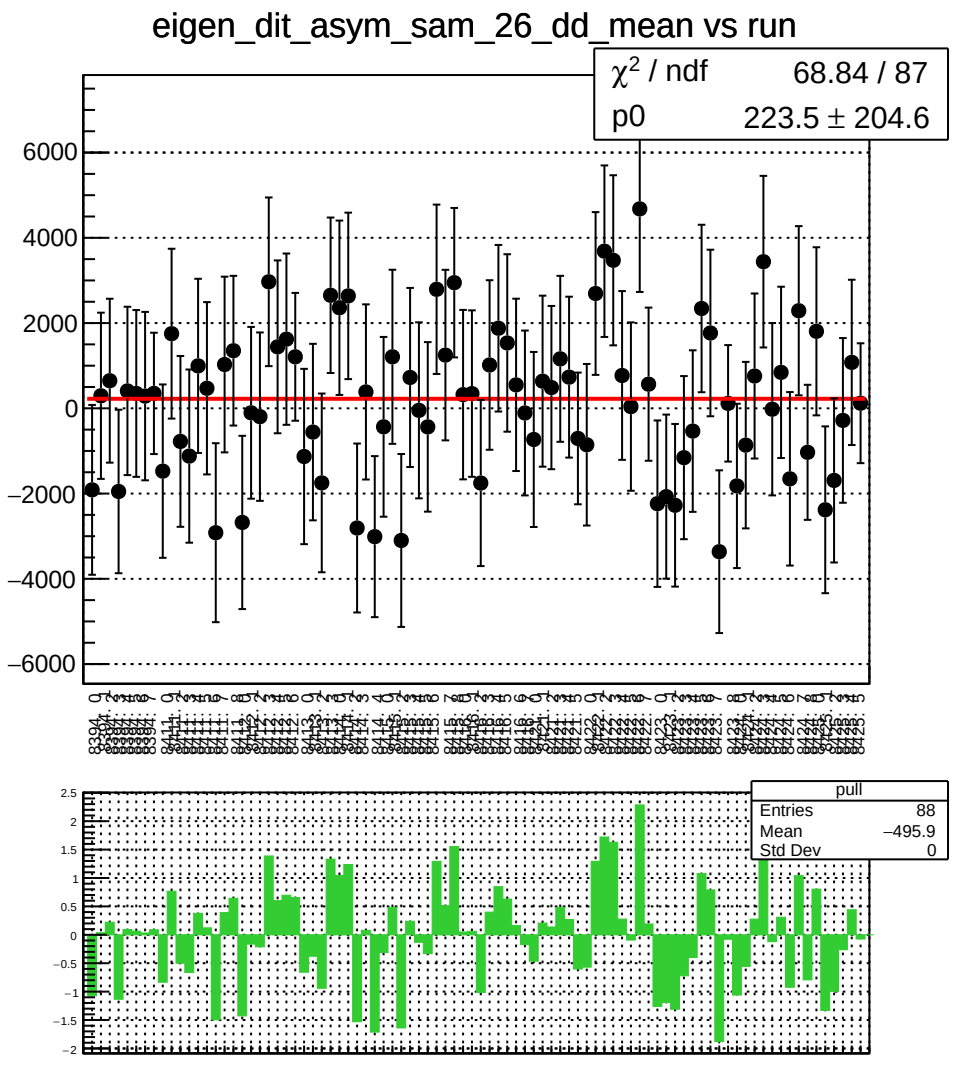

dit_asym_sam_26_dd_mean vs run
χ² / ndf 68.84 / 87
p0 223.4 ± 204.6
pull
Entries 88
Mean −496
Std Dev 0
pull1D
Entries 88
Mean −0.0009336
Std Dev 0.8844

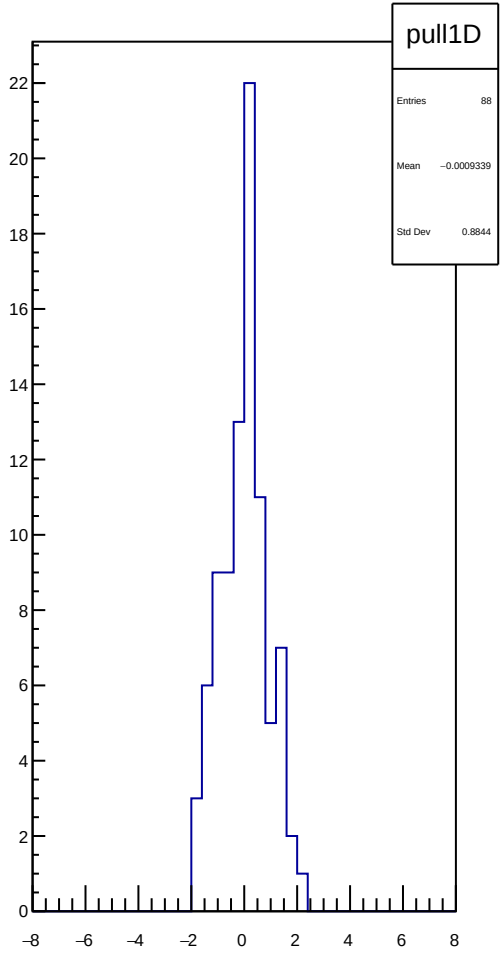

dit_asym_sam_26_dd_rms vs run
χ^2 / ndf 1269 / 87
p0 188.2 ± 0.1447
200
195
190
185
180

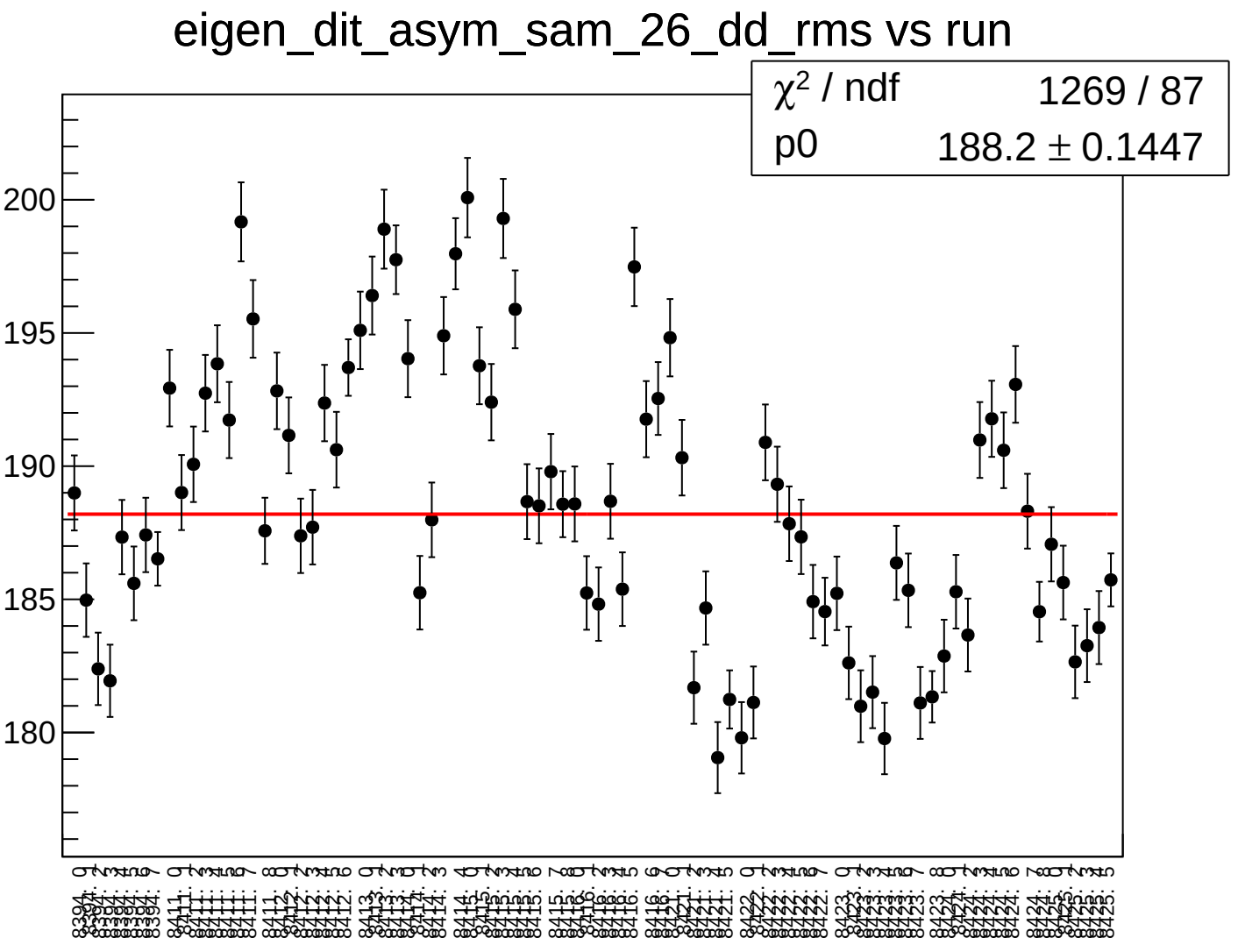

asym_sam_26_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 64.51 / 87
p0 −8353 ± 3668
100
50
0
−50
−100
−150
pull
Entries 88
Mean −181.8
Std Dev 0
2
1
0
−1
−2
−3

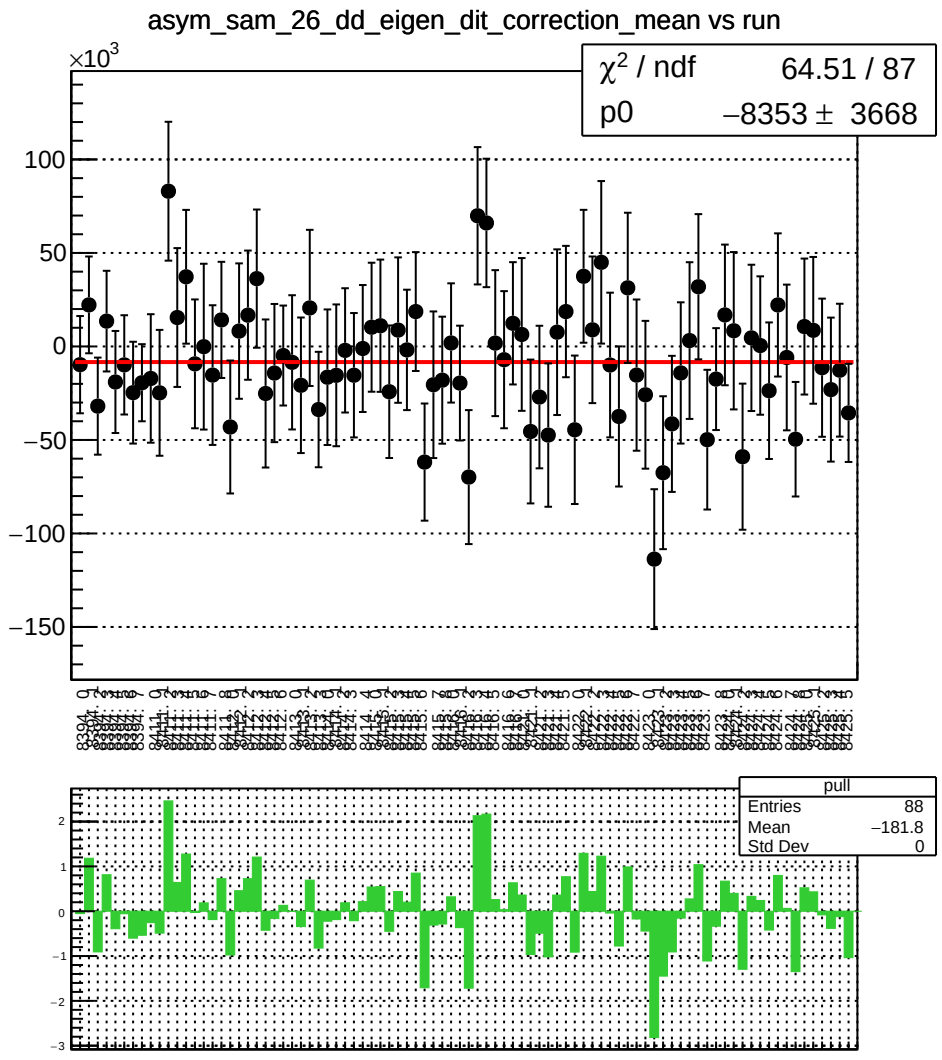

pull1D
Entries 88
Mean 0.01454
Std Dev 0.856
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

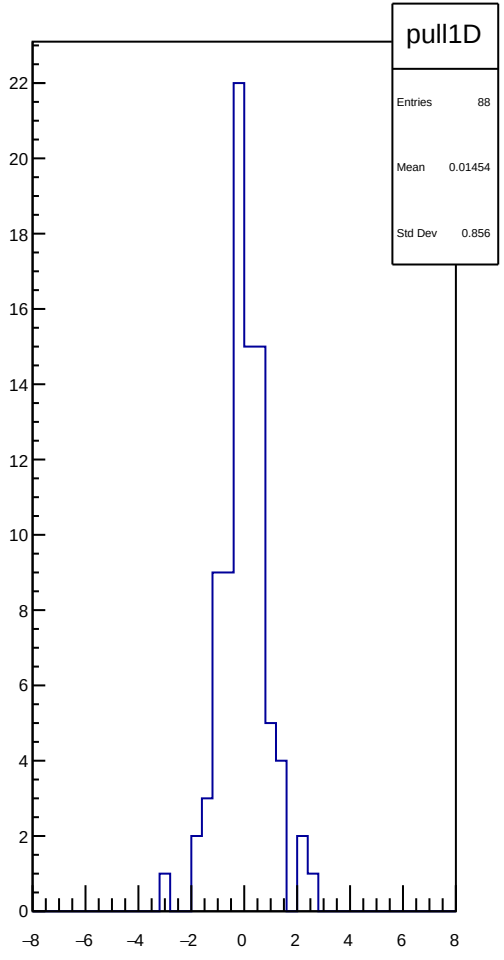

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 2.781e+04 / 87
p0 3347 ± 2.594
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400

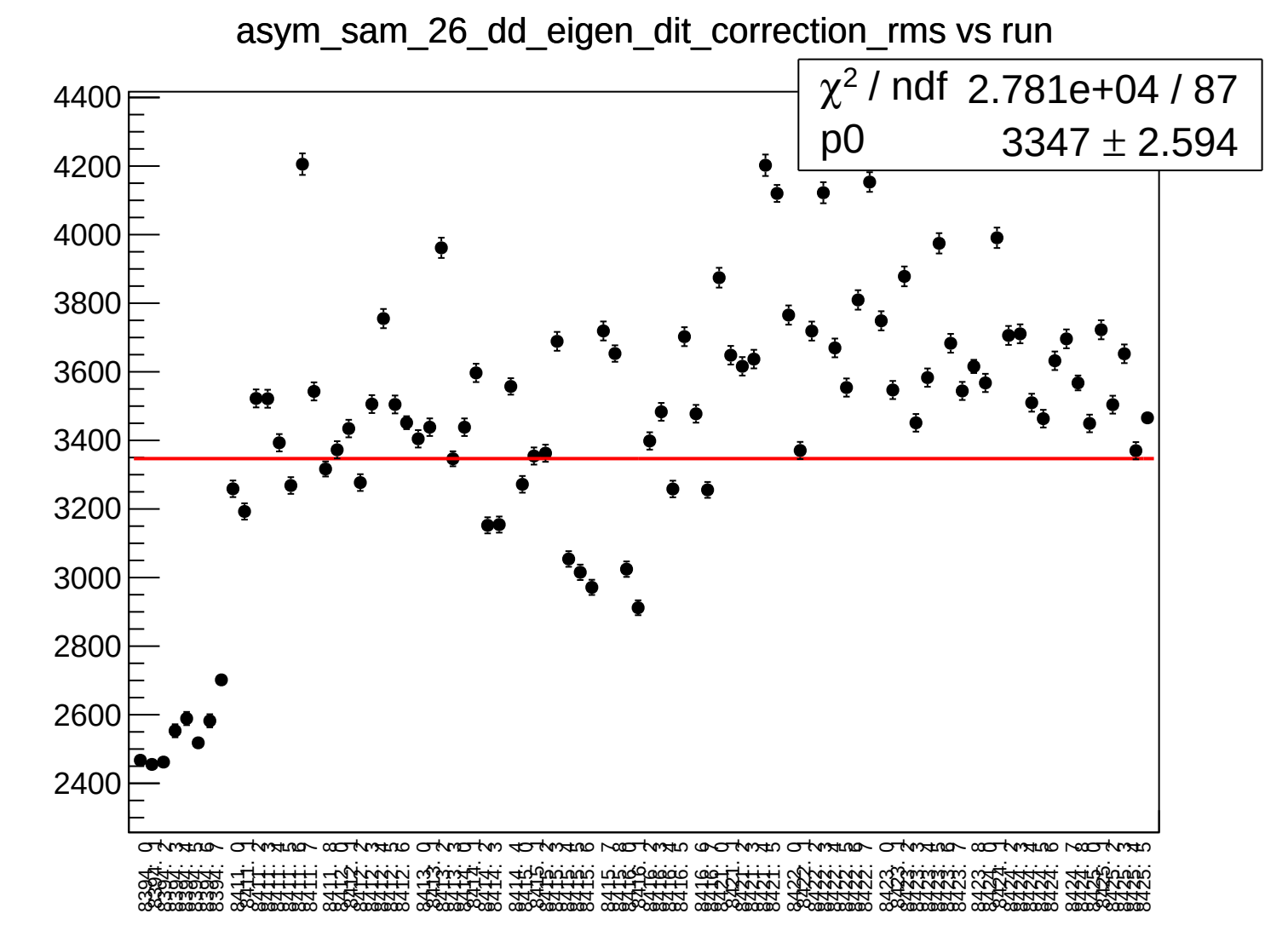

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 68.84 / 87
p0 223.5 ± 204.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −495.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

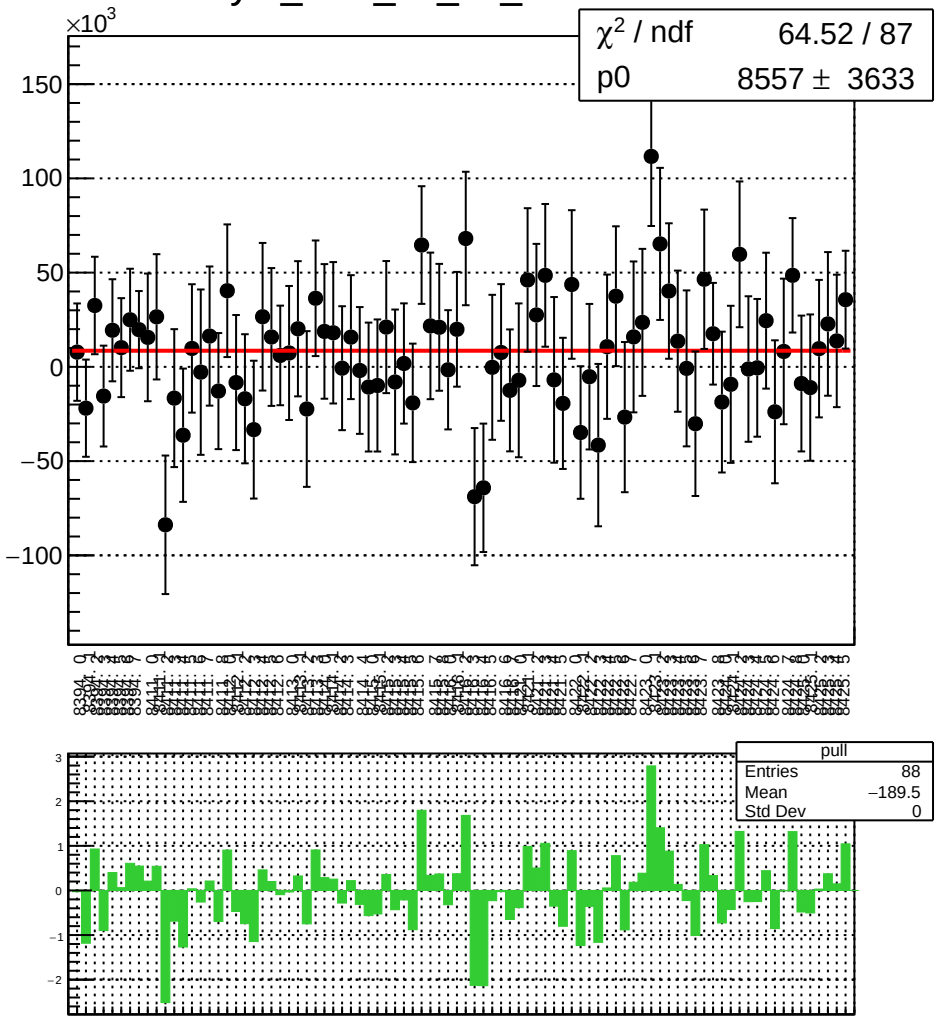

pull1D
Entries 88
Mean −0.0009339
Std Dev 0.8844
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

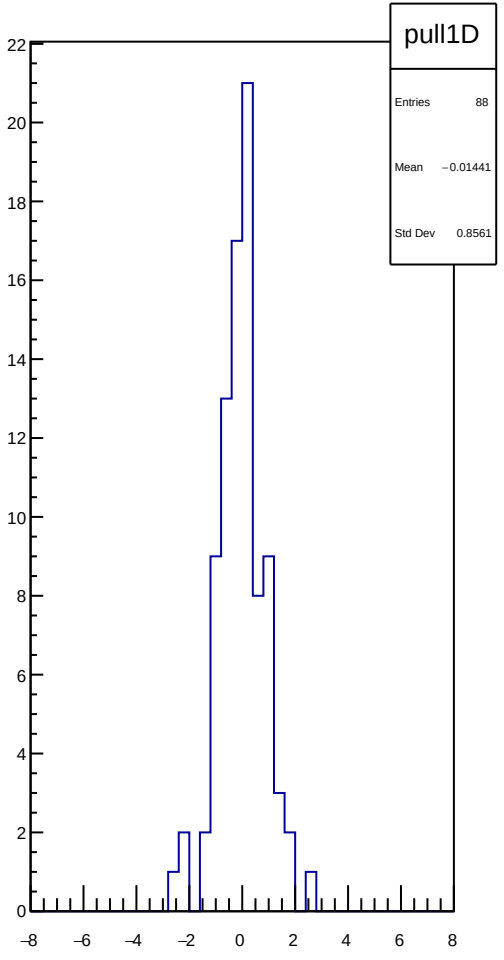

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 1269 / 87
p0 188.2 ± 0.1447
200
195
190
185
180

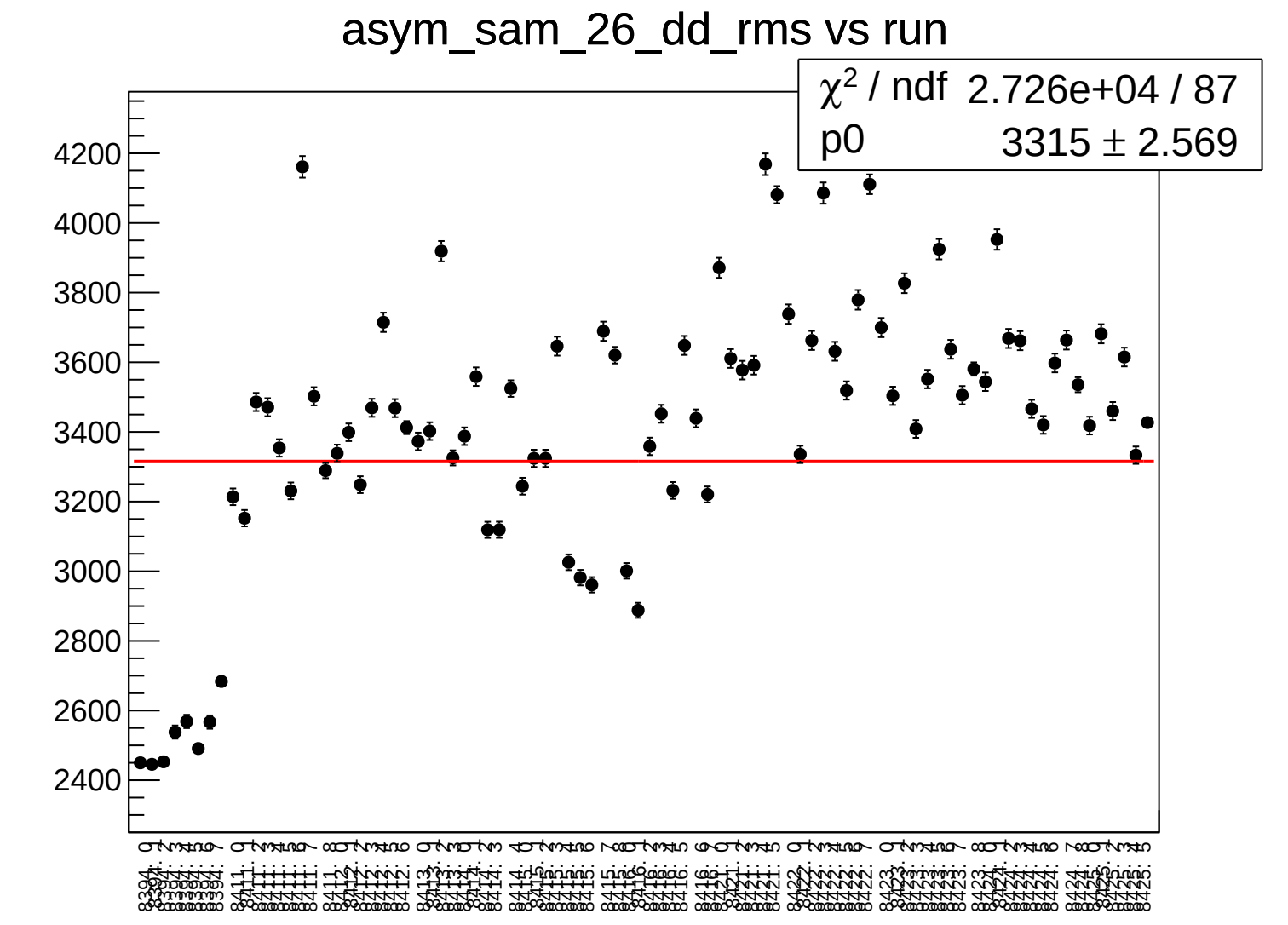

asym_sam_26_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 64.51 / 87
p0 −8353 ± 3668
100
50
0
−50
−100
−150
pull
Entries 88
Mean −181.8
Std Dev 0
2
1
0
−1
−2
−3

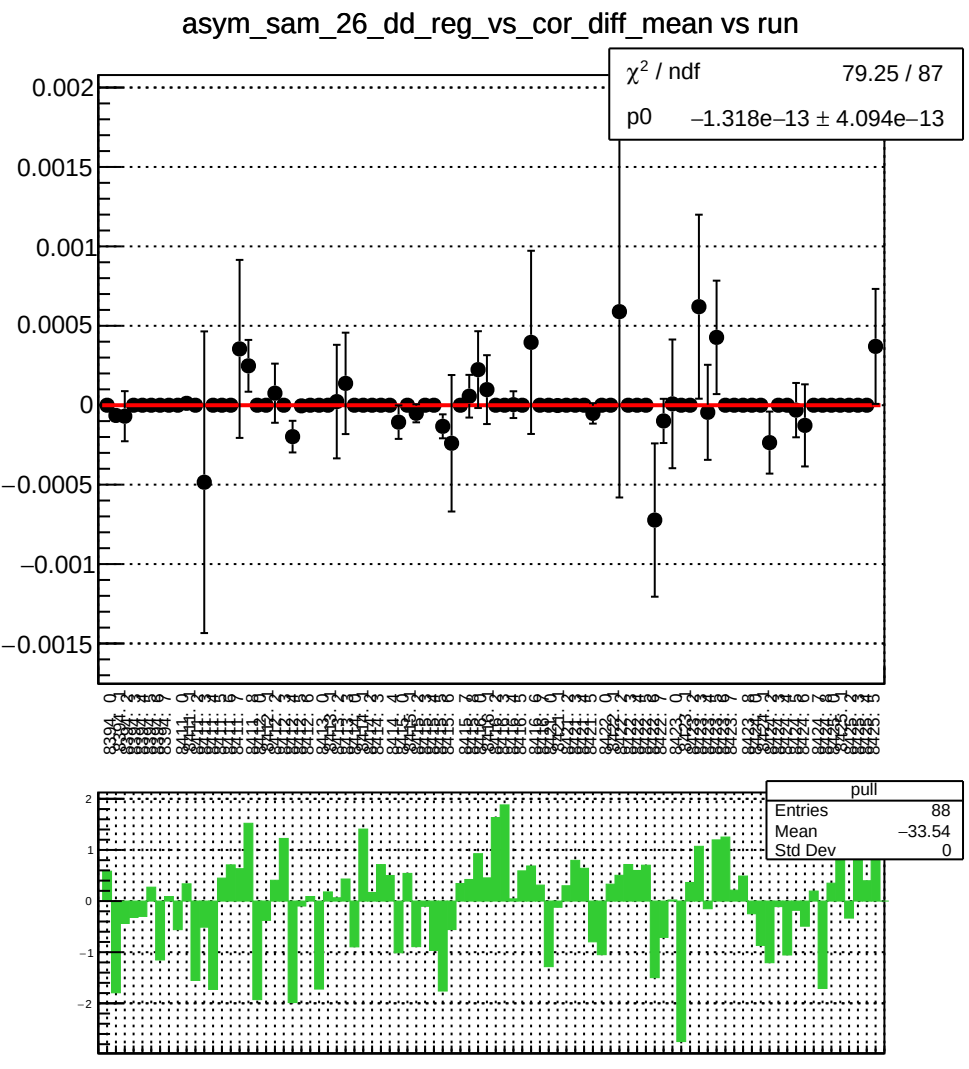

pull1D
Entries 88
Mean 0.01454
Std Dev 0.856
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

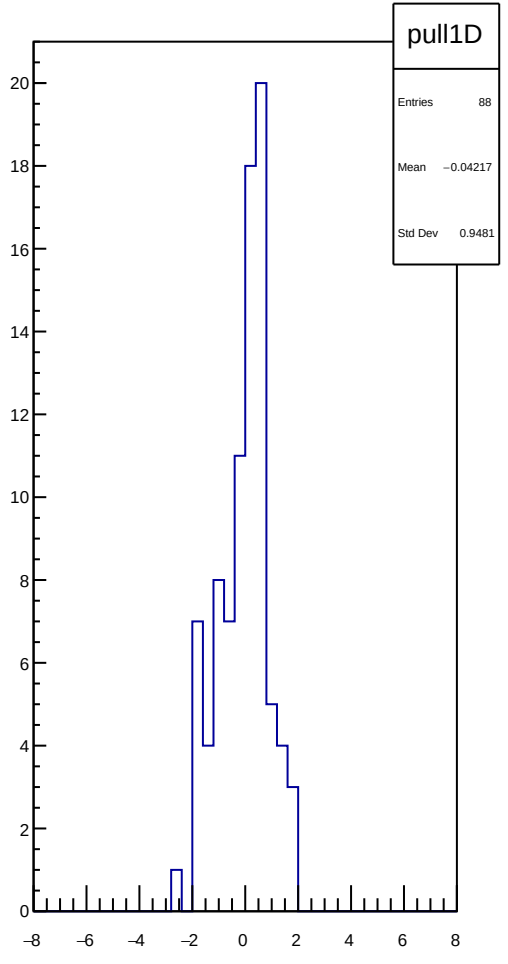

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.781e+04 / 87
p0 3347 ± 2.594
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400

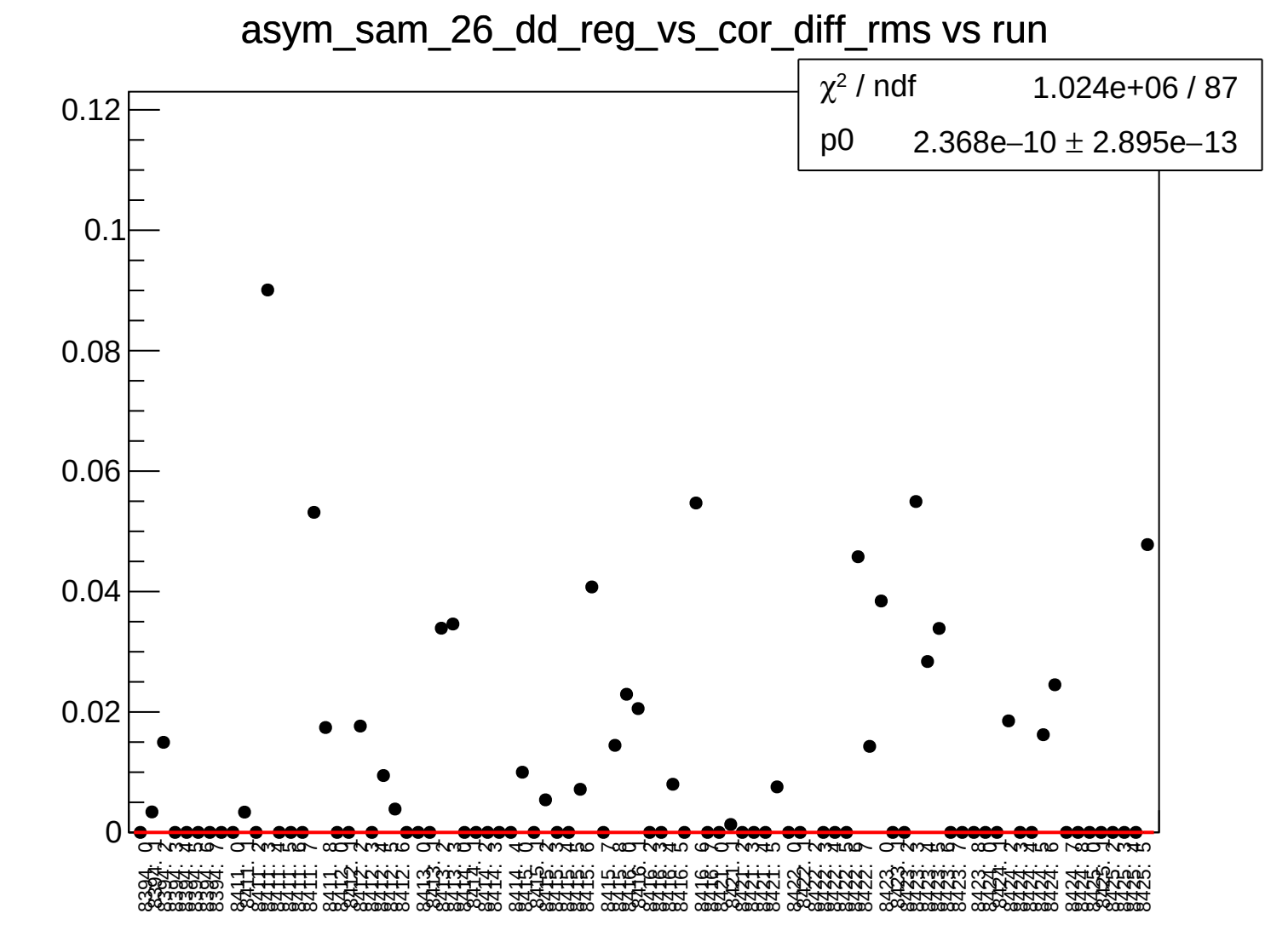

asym_sam_26_dd_mean vs run
×10^3
χ^2 / ndf 64.52 / 87
p0 8557 ± 3633
150
100
50
0
−50
−100
pull
Entries 88
Mean −189.5
Std Dev 0
3
2
1
0
−1
−2

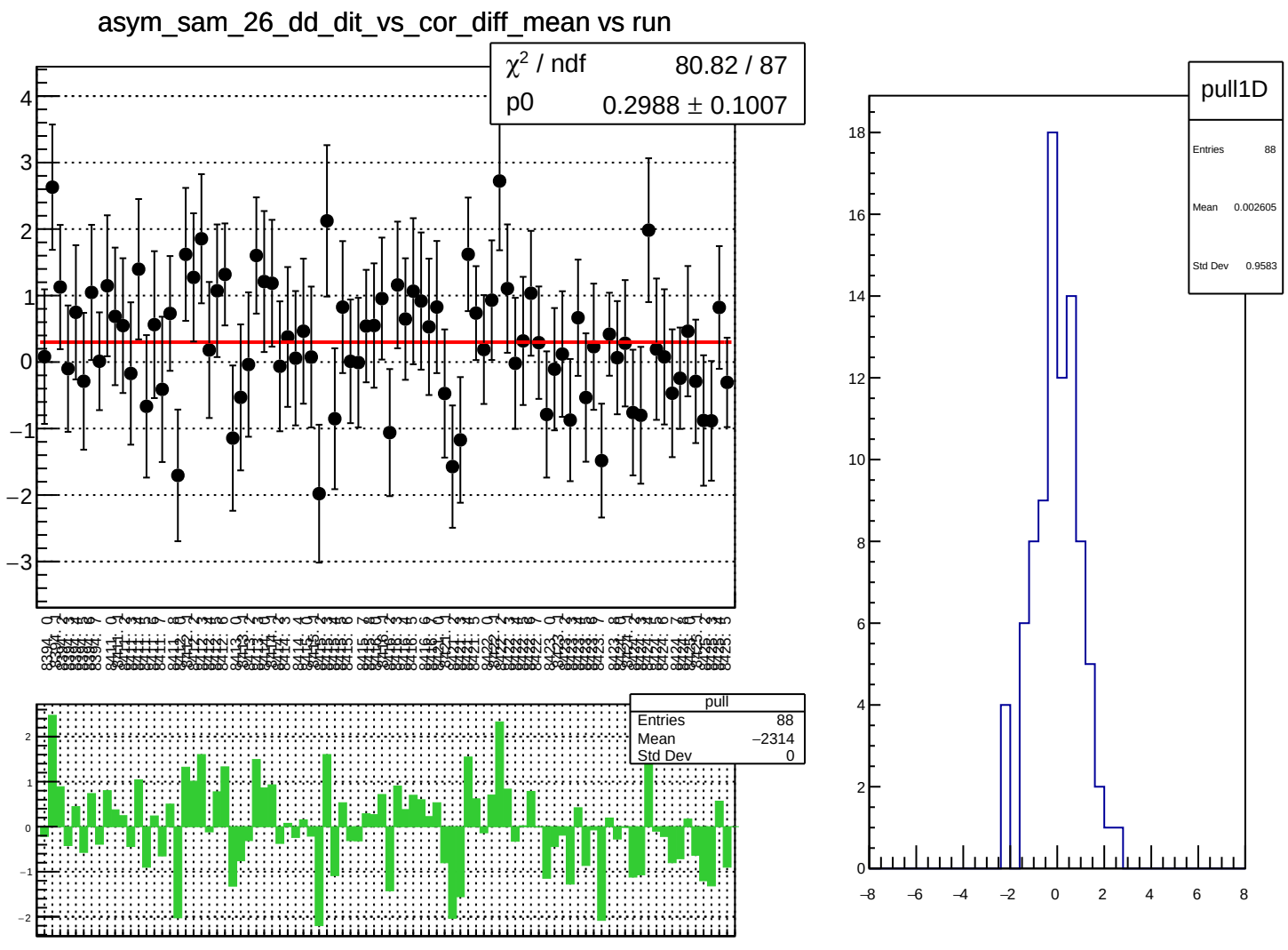

pull1D
Entries 88
Mean −0.01441
Std Dev 0.8561
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

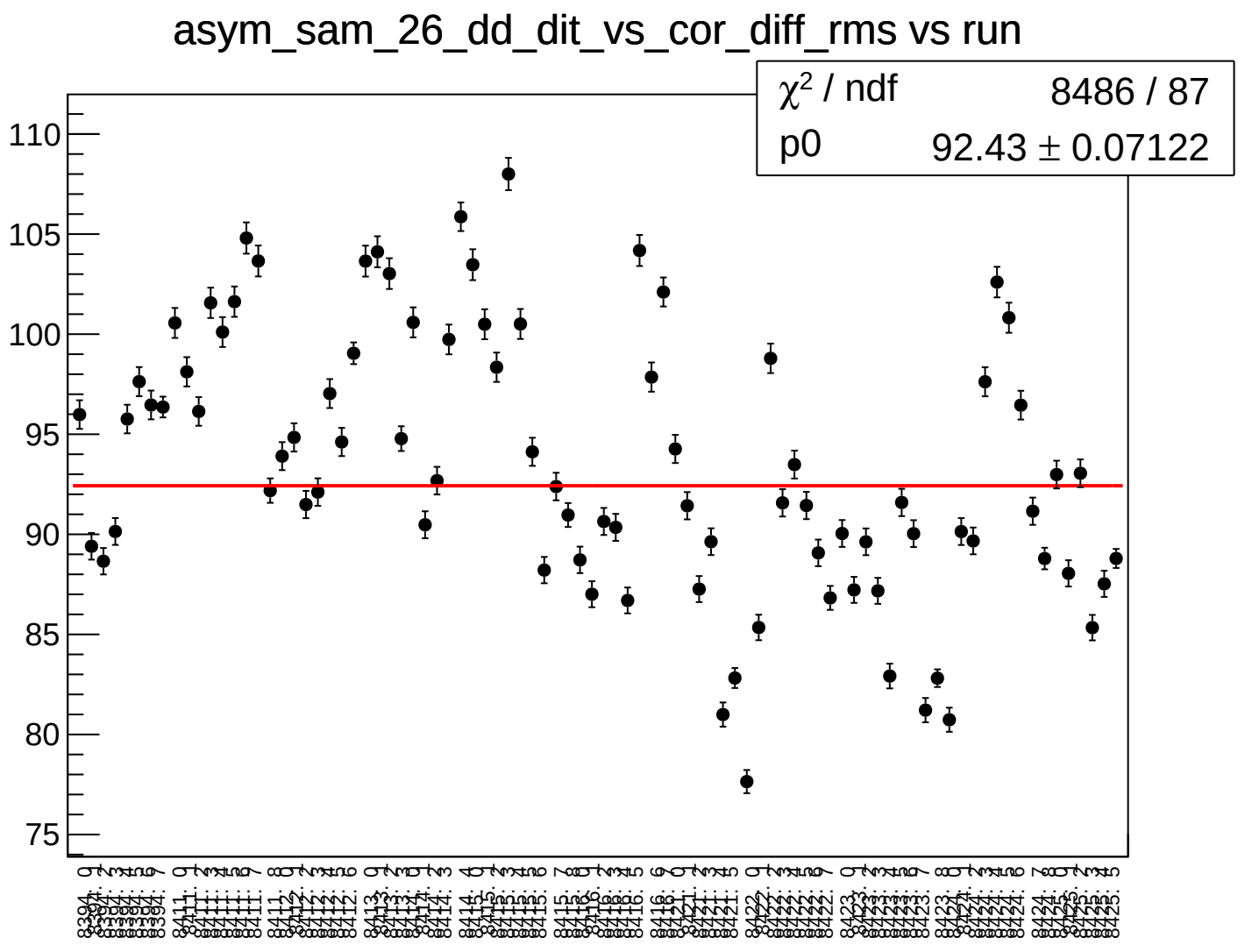

asym_sam_26_dd_rms vs run
χ² / ndf 2.726e+04 / 87
p0 3315 ± 2.569
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400

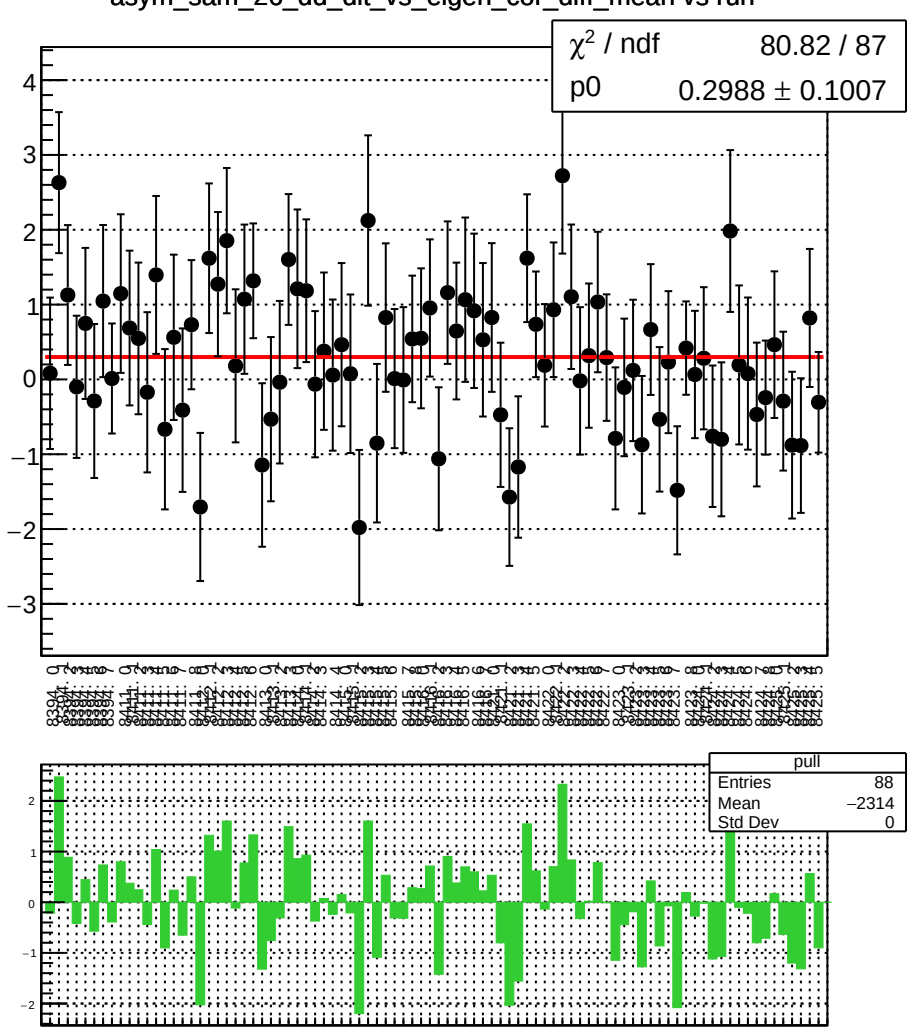

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.25 / 87
p0 −1.318e−13 ± 4.094e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 88
Mean −33.54
Std Dev 0
2
1
0
−1
−2

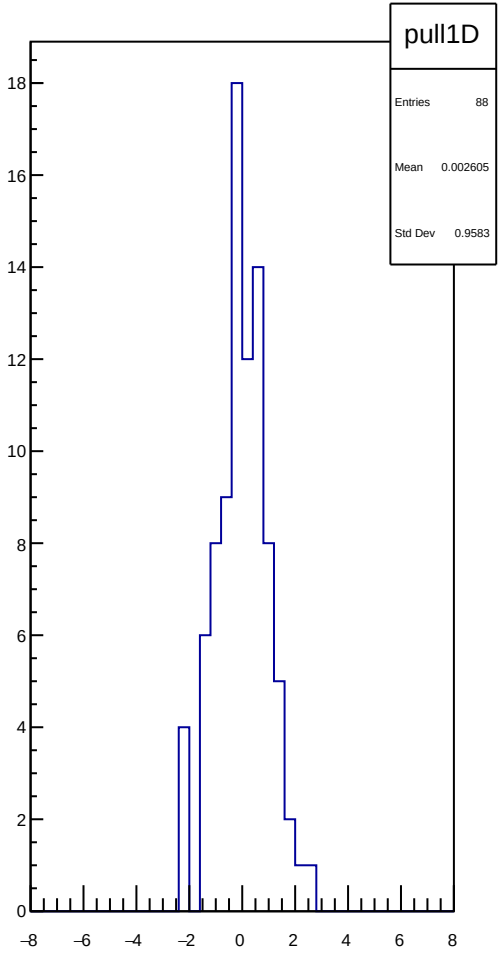

pull1D
Entries 88
Mean −0.04217
Std Dev 0.9481
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

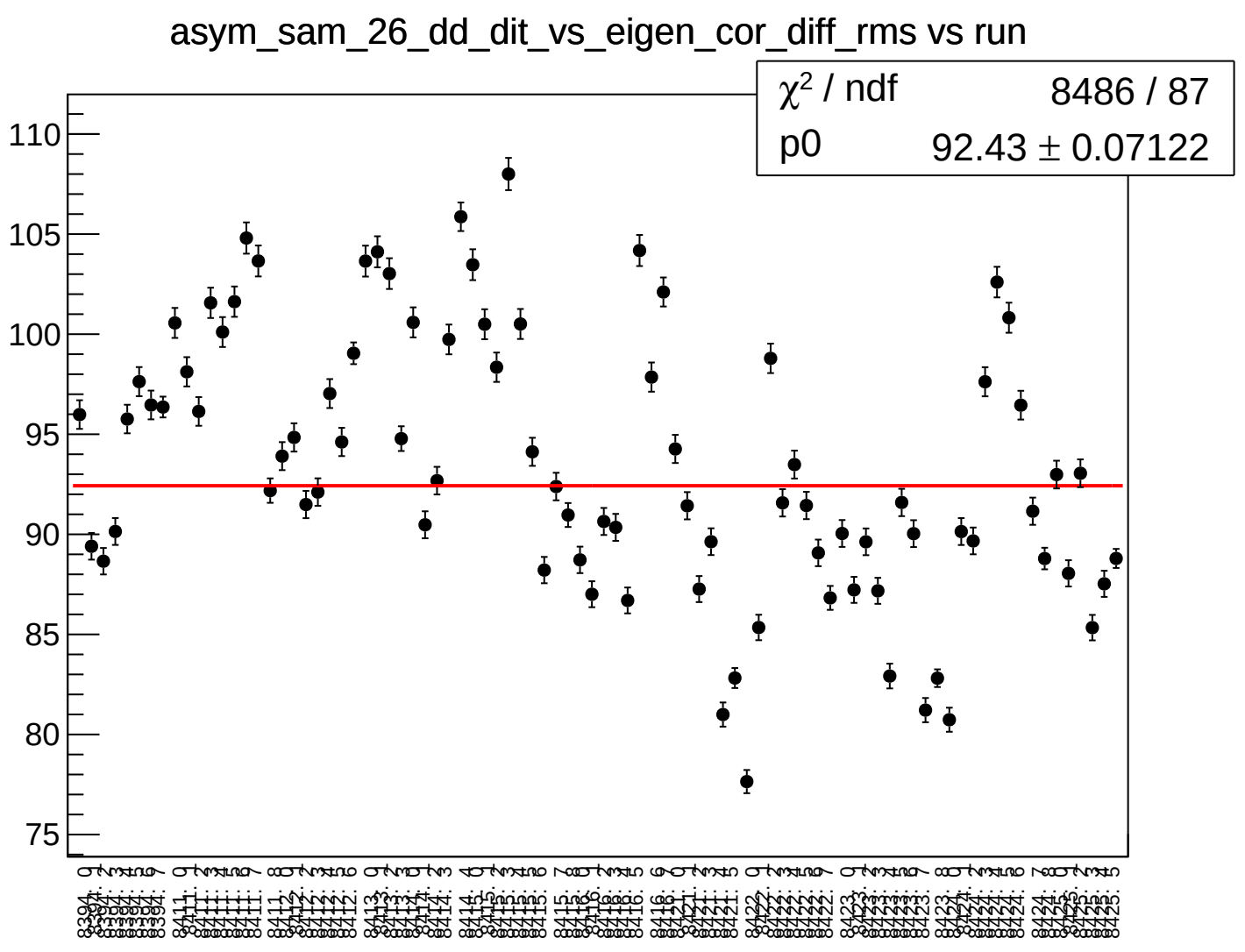

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.024e+06 / 87
p0 2.368e−10 ± 2.895e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

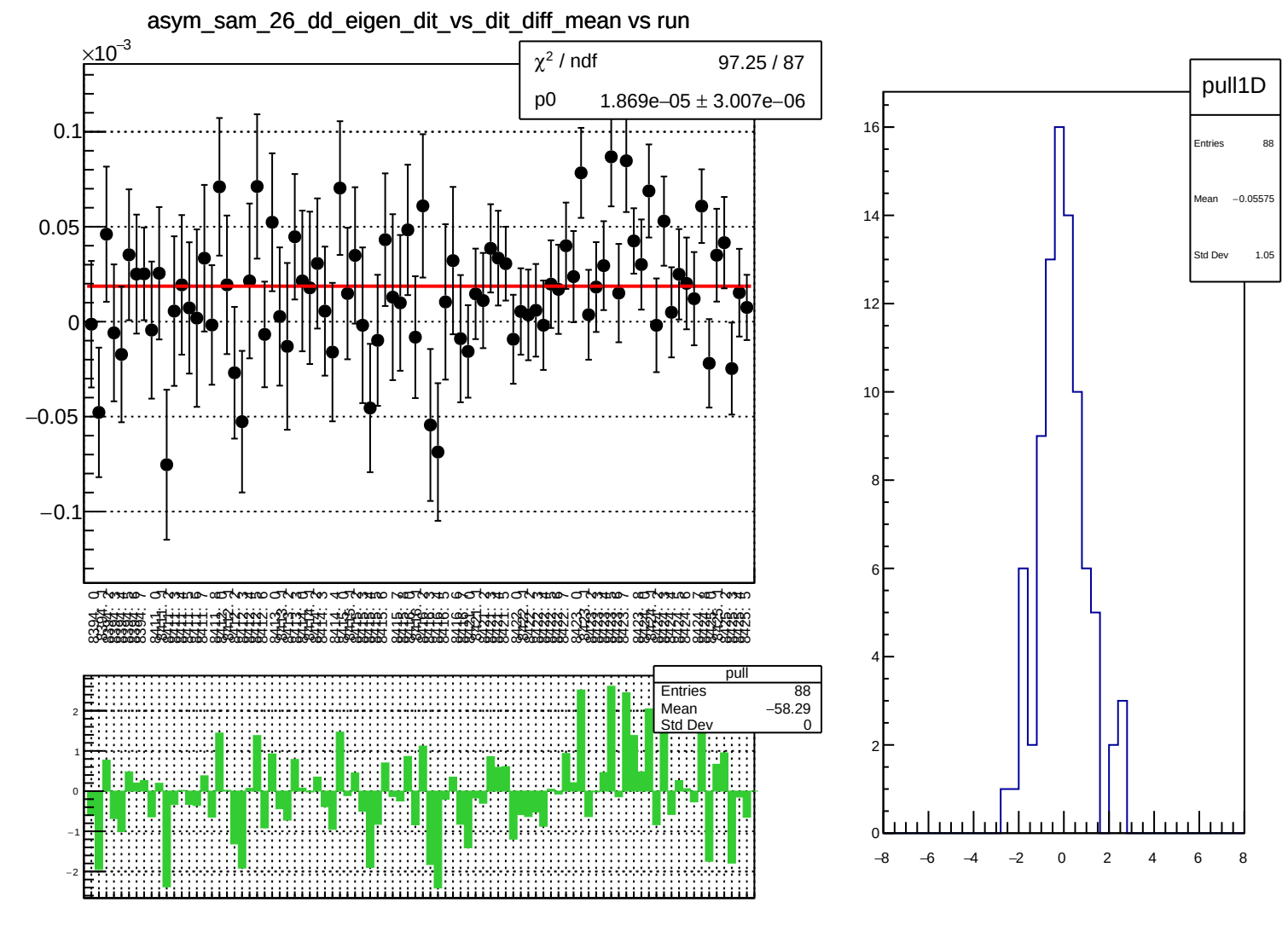

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 80.82 / 87
p0 0.2988 ± 0.1007
pull
Entries 88
Mean −2314
Std Dev 0
pull1D
Entries 88
Mean 0.002605
Std Dev 0.9583

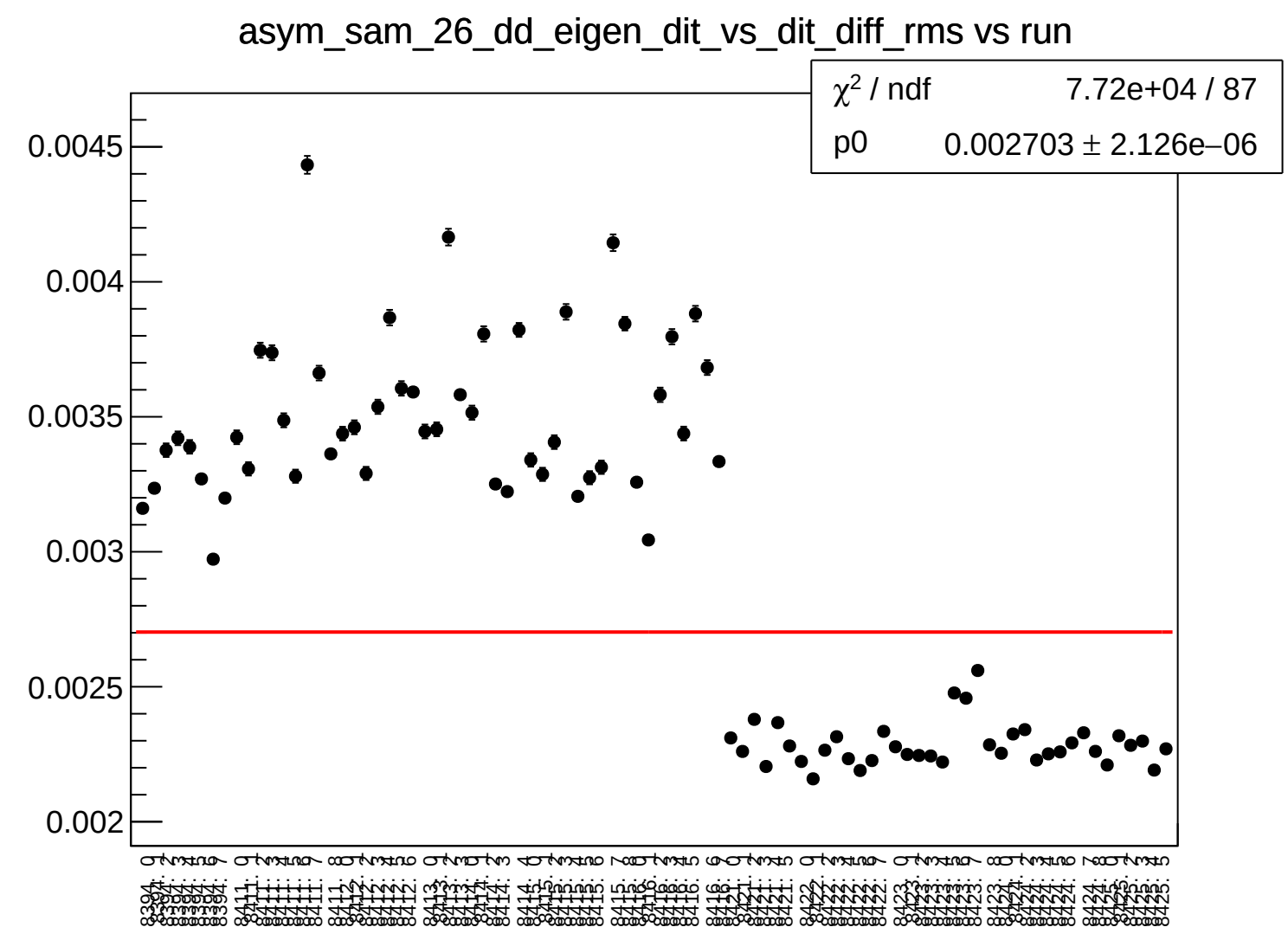

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 8486 / 87
p0 92.43 ± 0.07122
110
105
100
95
90
85
80
75

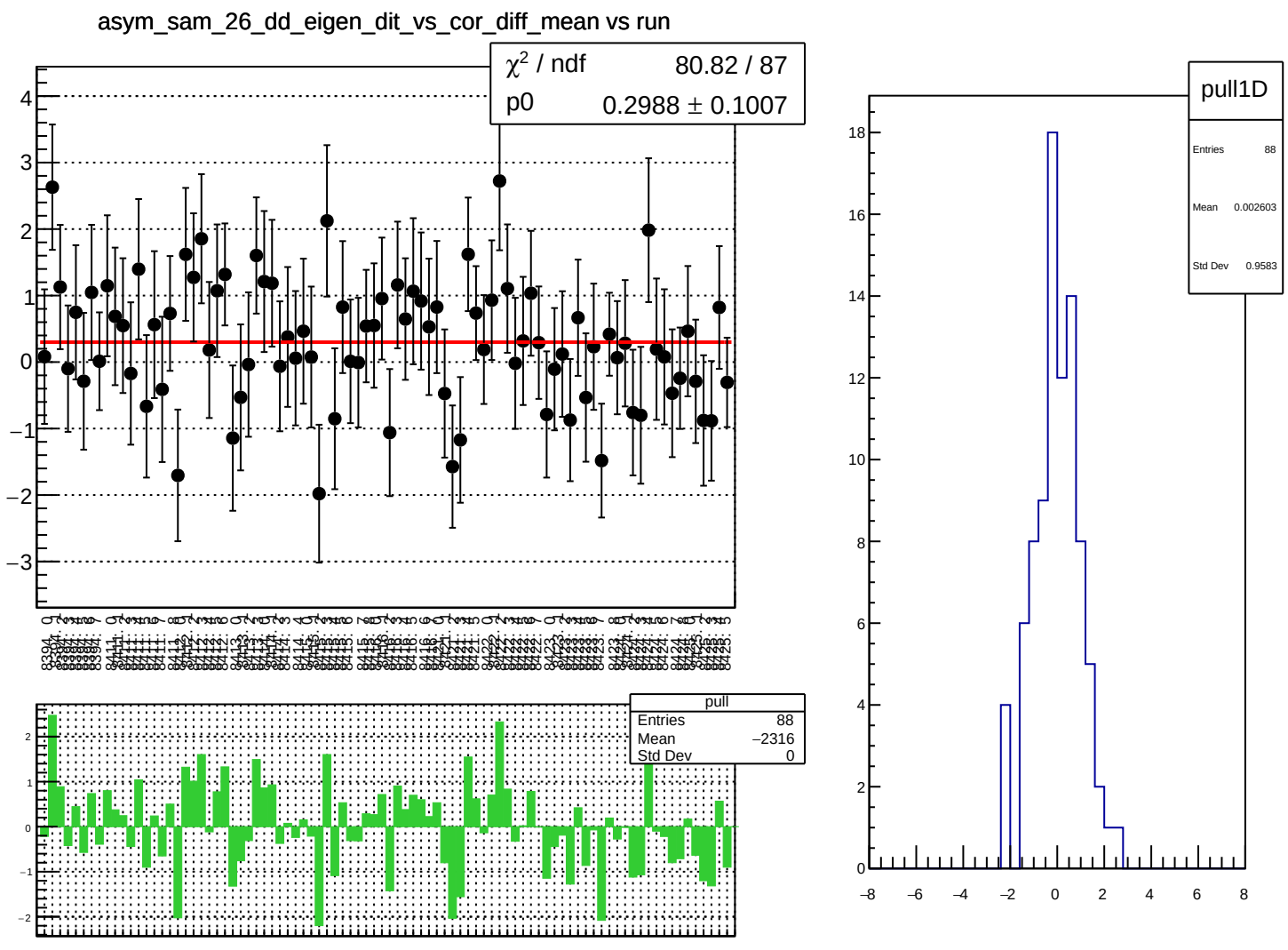

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.82 / 87
p0 0.2988 ± 0.1007
pull
Entries 88
Mean −2314
Std Dev 0

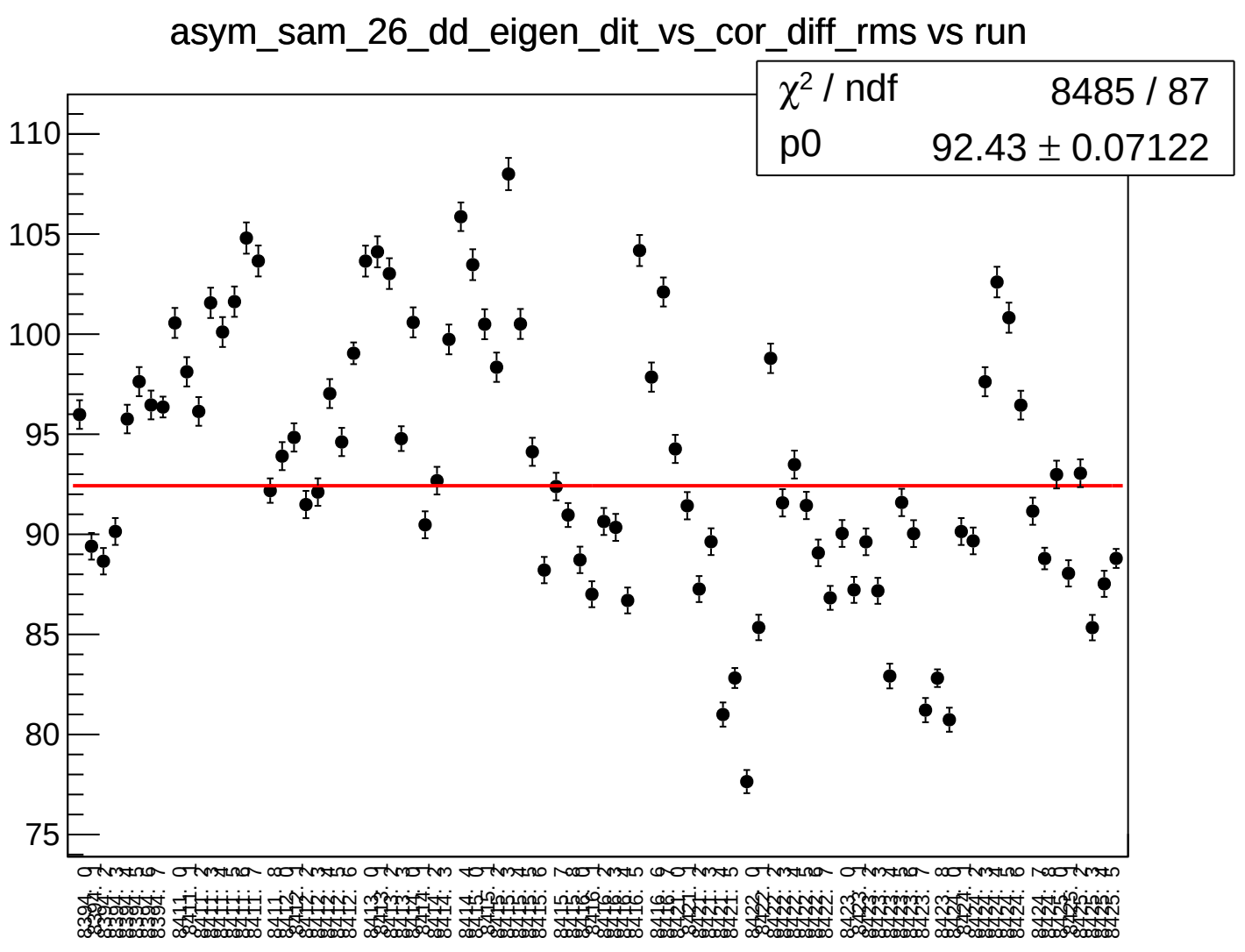

pull1D
Entries 88
Mean 0.002605
Std Dev 0.9583


asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8486 / 87
p0 92.43 ± 0.07122
110
105
100
95
90
85
80
75

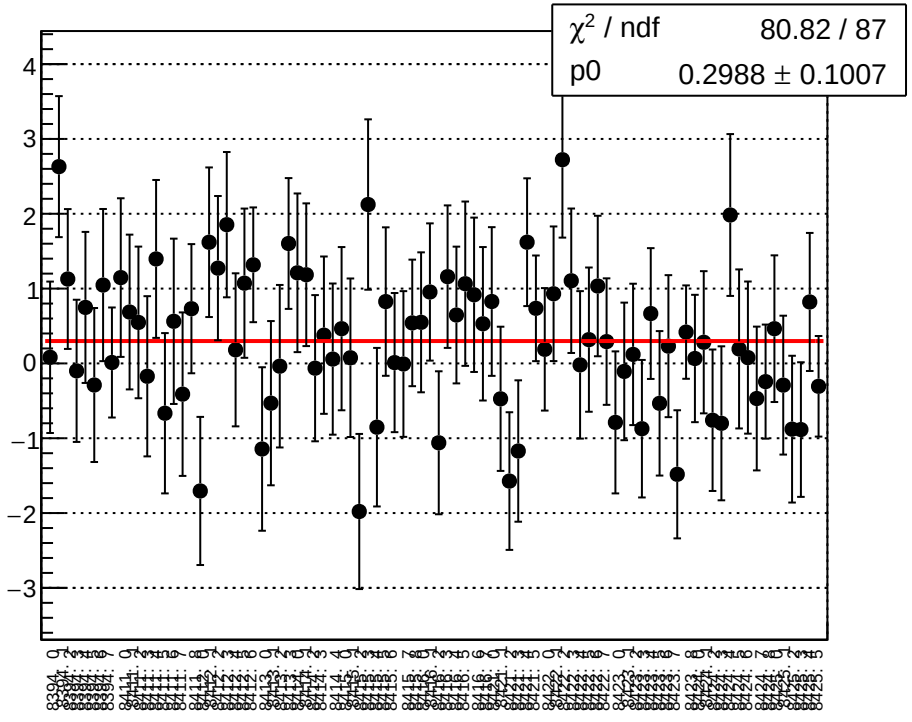

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.25 / 87
p0 1.869e−05 ± 3.007e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean −58.29
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.05575
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

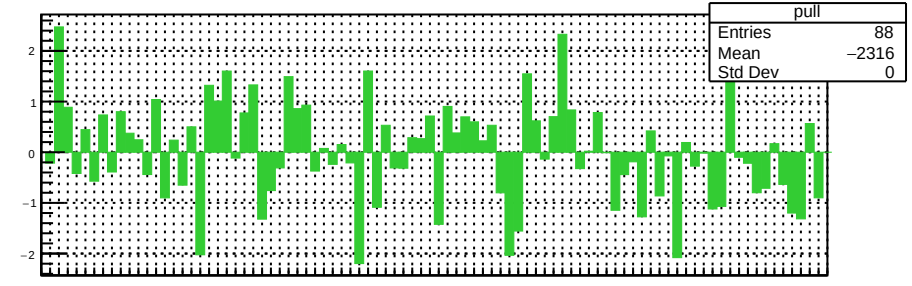

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.72e+04 / 87
p0 0.002703 ± 2.126e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002

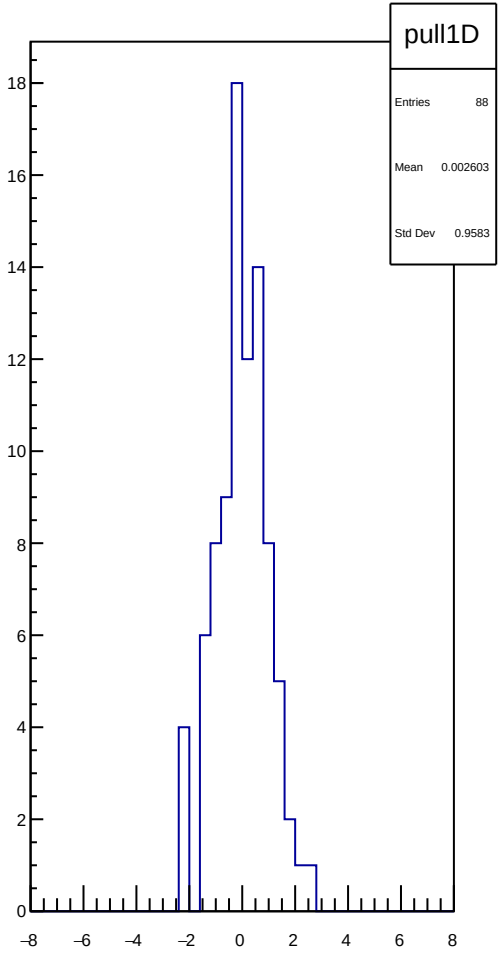

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.82 / 87
p0 0.2988 ± 0.1007
pull
Entries 88
Mean −2316
Std Dev 0
pull1D
Entries 88
Mean 0.002603
Std Dev 0.9583

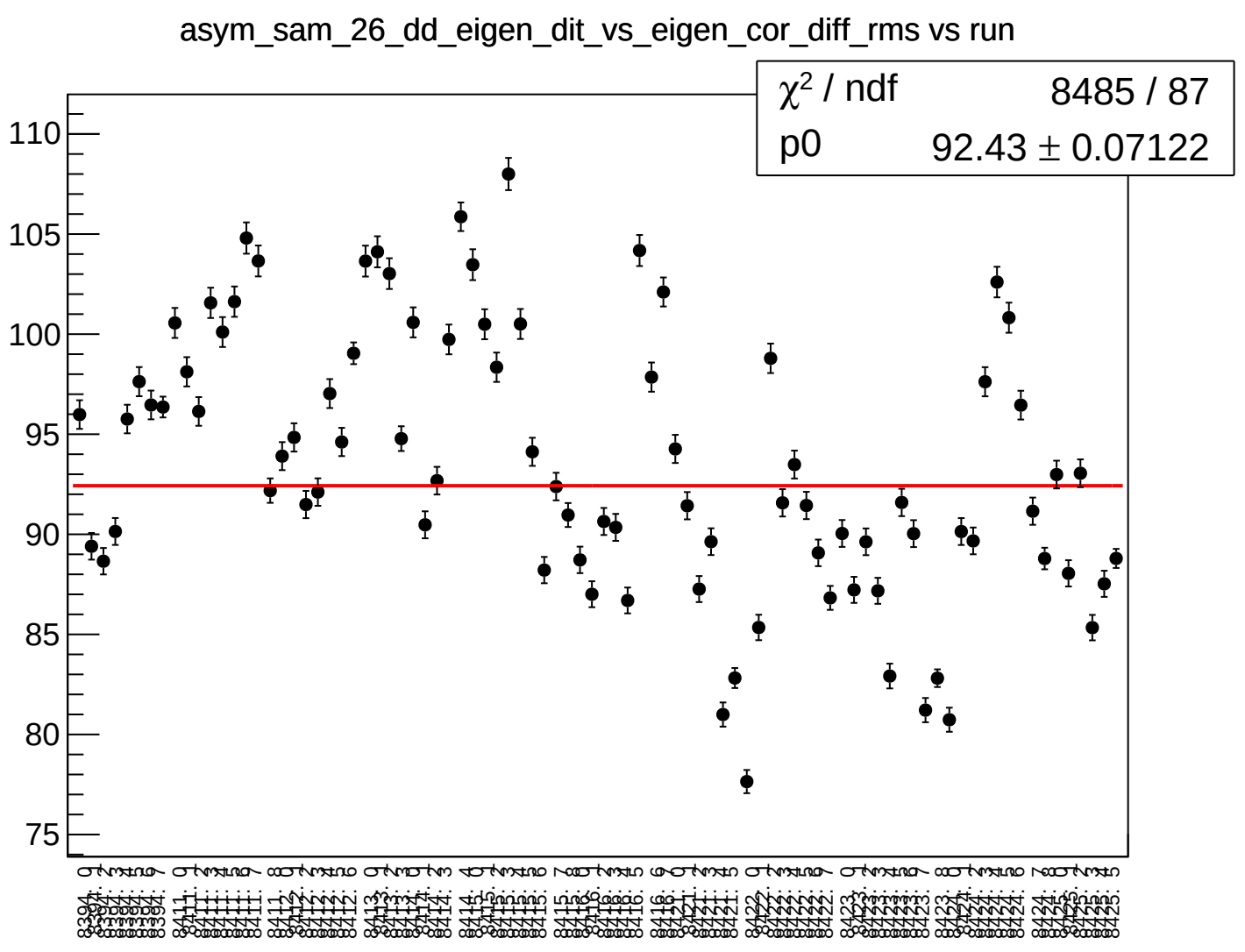

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8485 / 87
p0 92.43 ± 0.07122
110
105
100
95
90
85
80
75

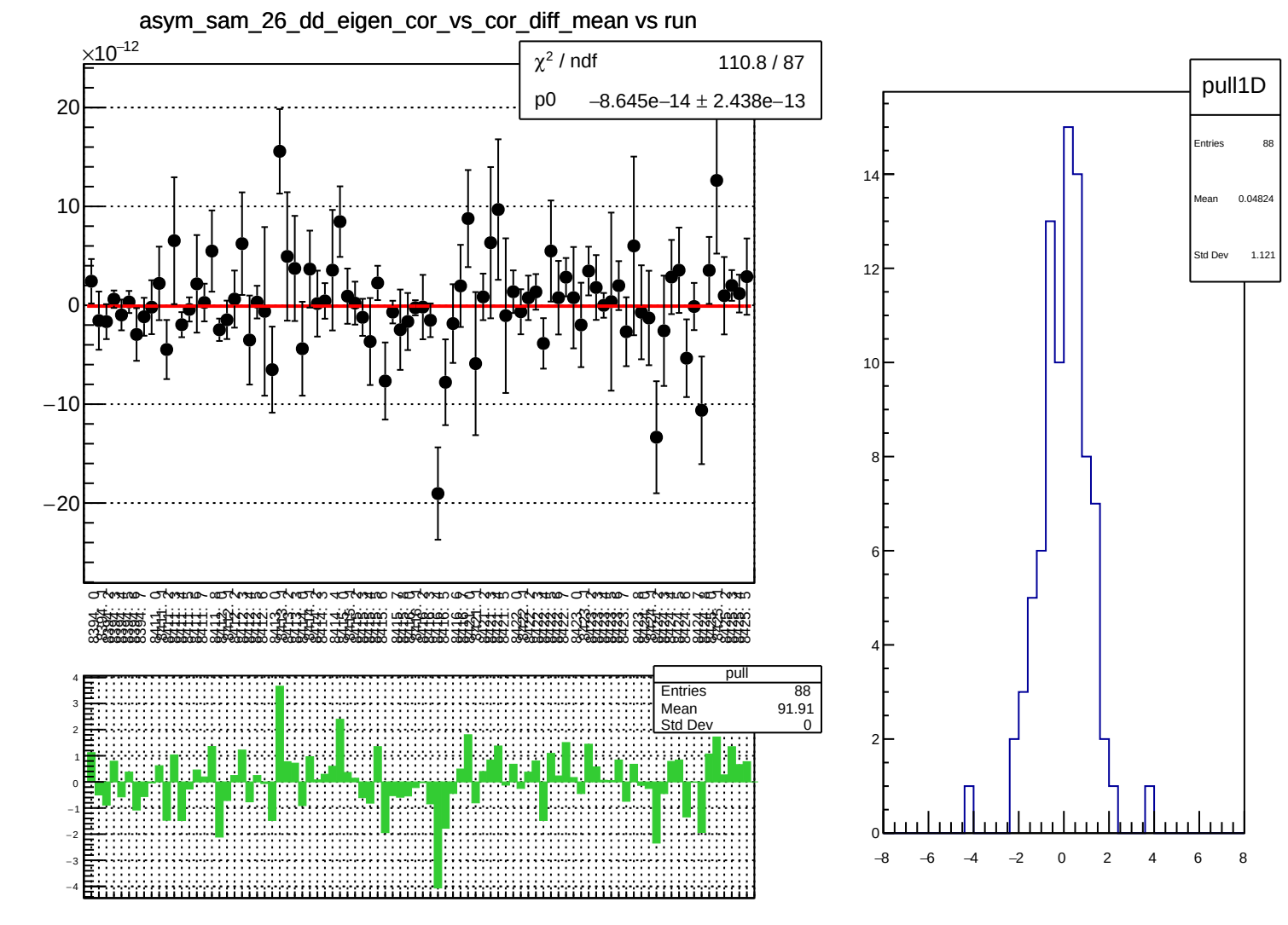
asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

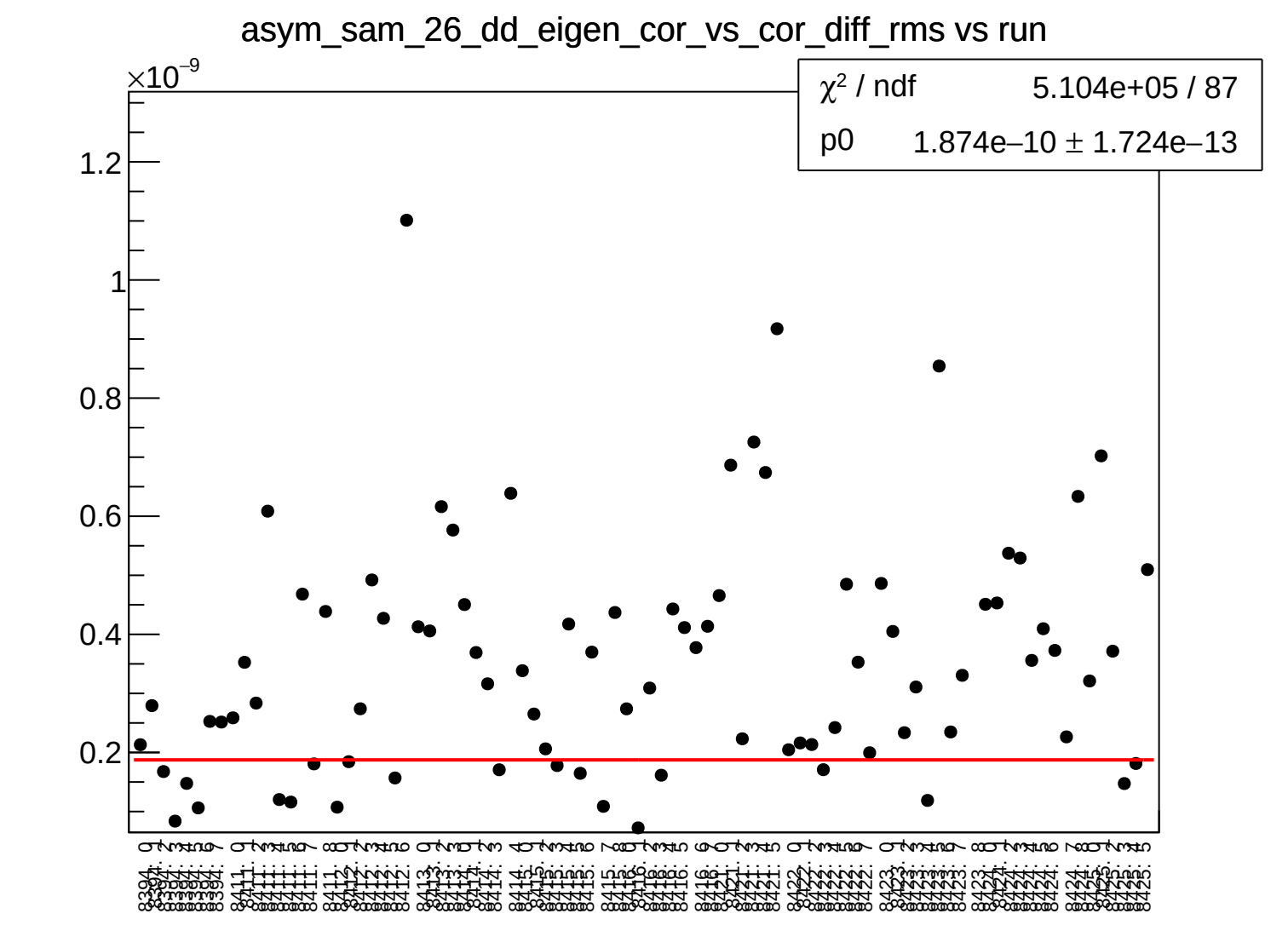


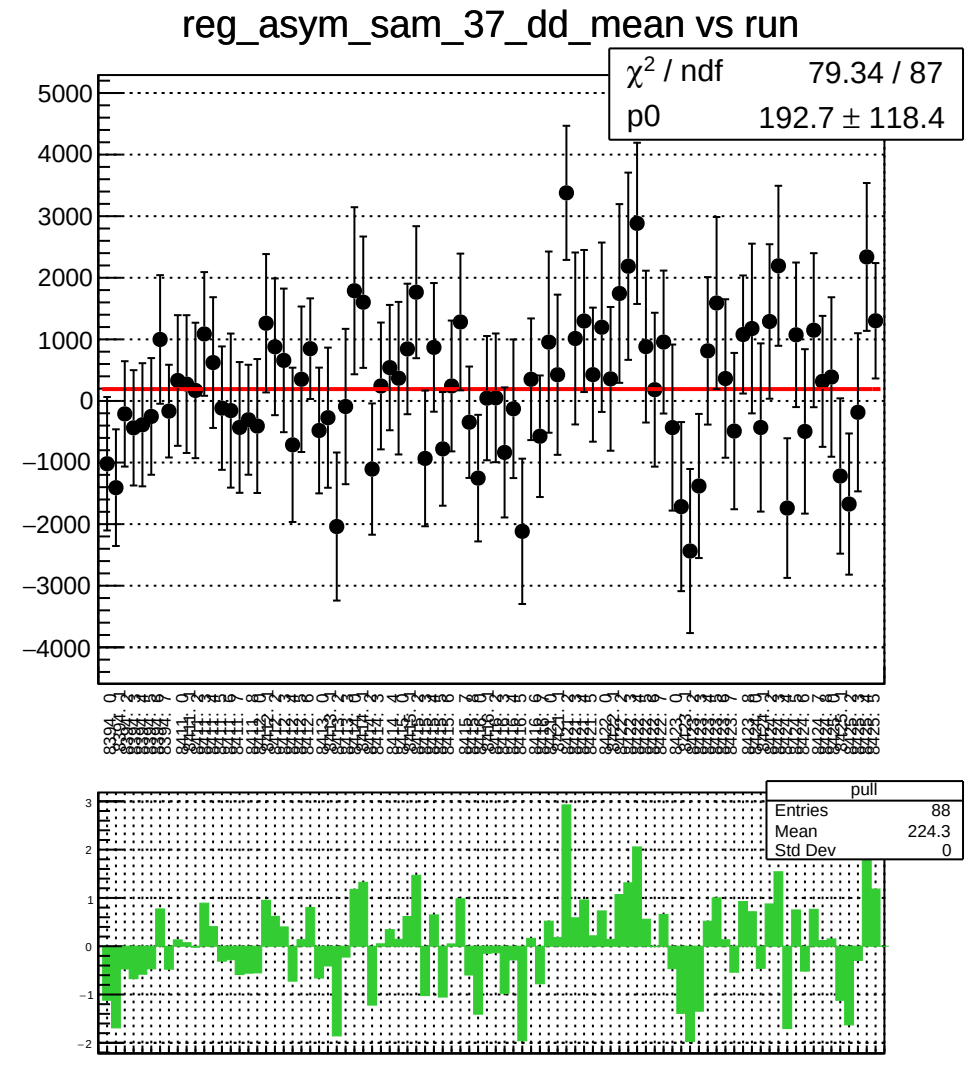


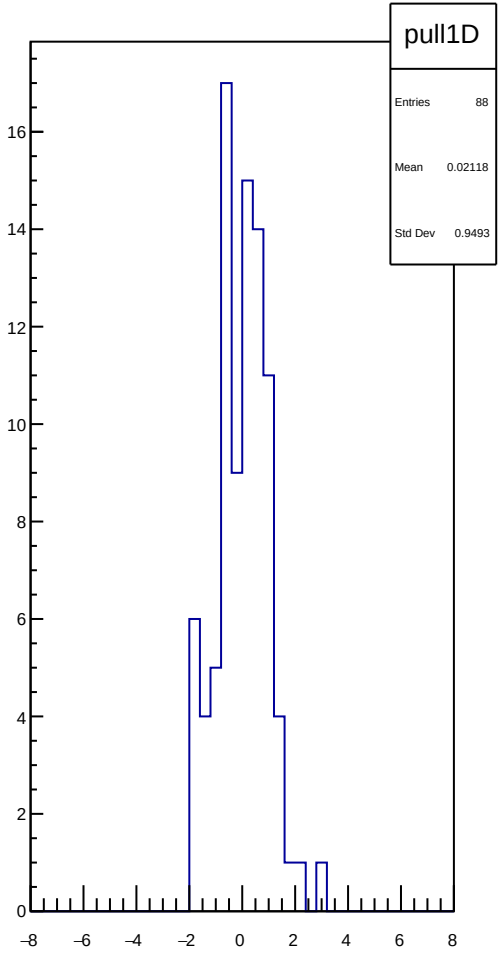


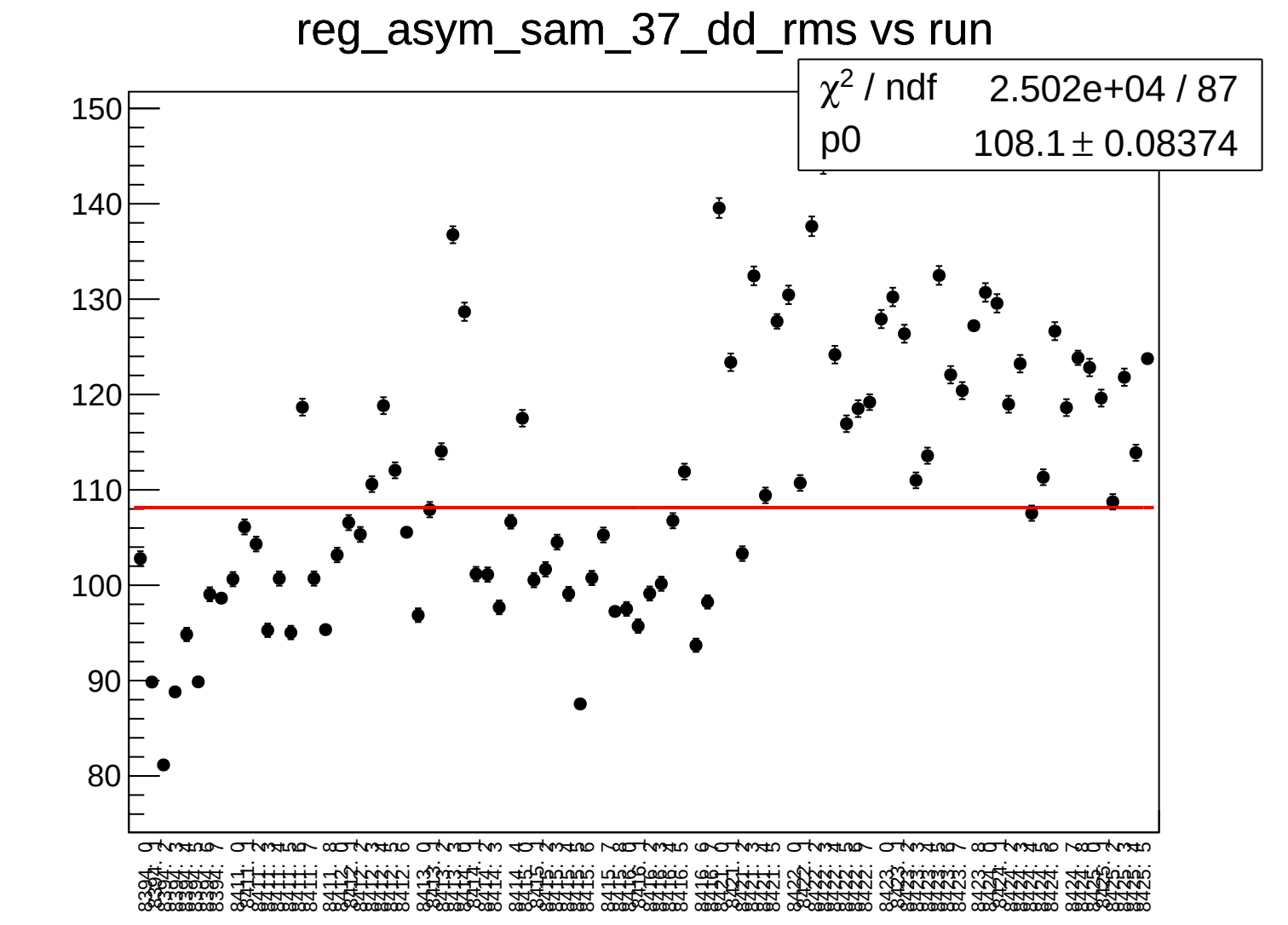

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8485 / 87
p0 92.43 ± 0.07122
110
105
100
95
90
85
80
75

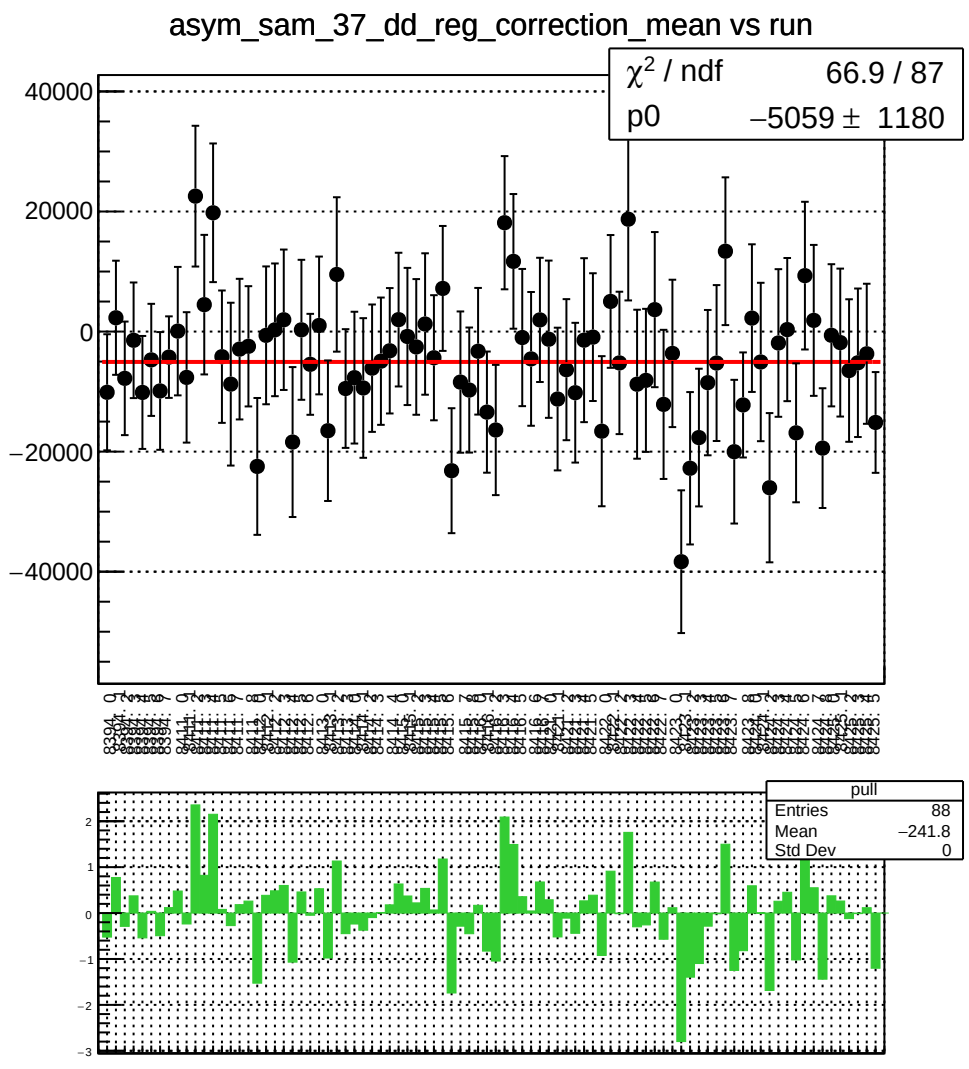

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 110.8 / 87
p0 −8.645e−14 ± 2.438e−13
pull
Entries 88
Mean 91.91
Std Dev 0
pull1D
Entries 88
Mean 0.04824
Std Dev 1.121

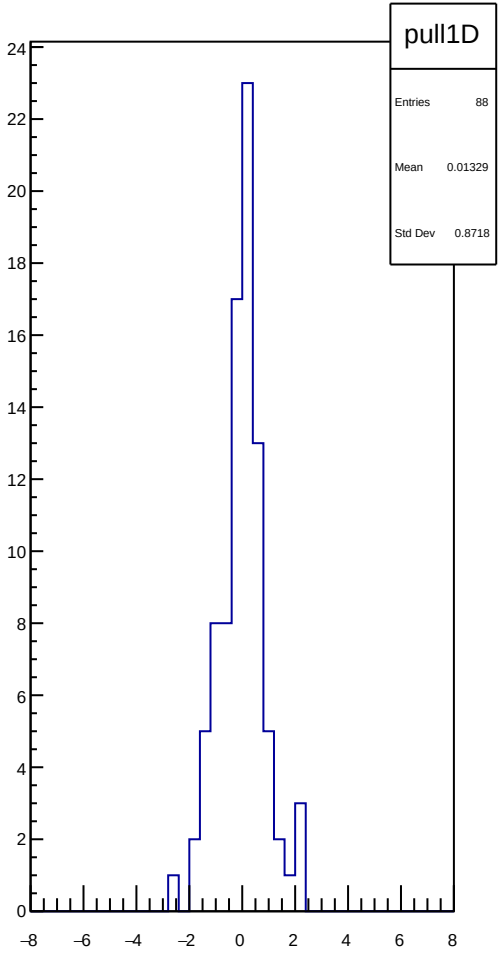

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.104e+05 / 87
p0 1.874e−10 ± 1.724e−13
1.2
1
0.8
0.6
0.4
0.2

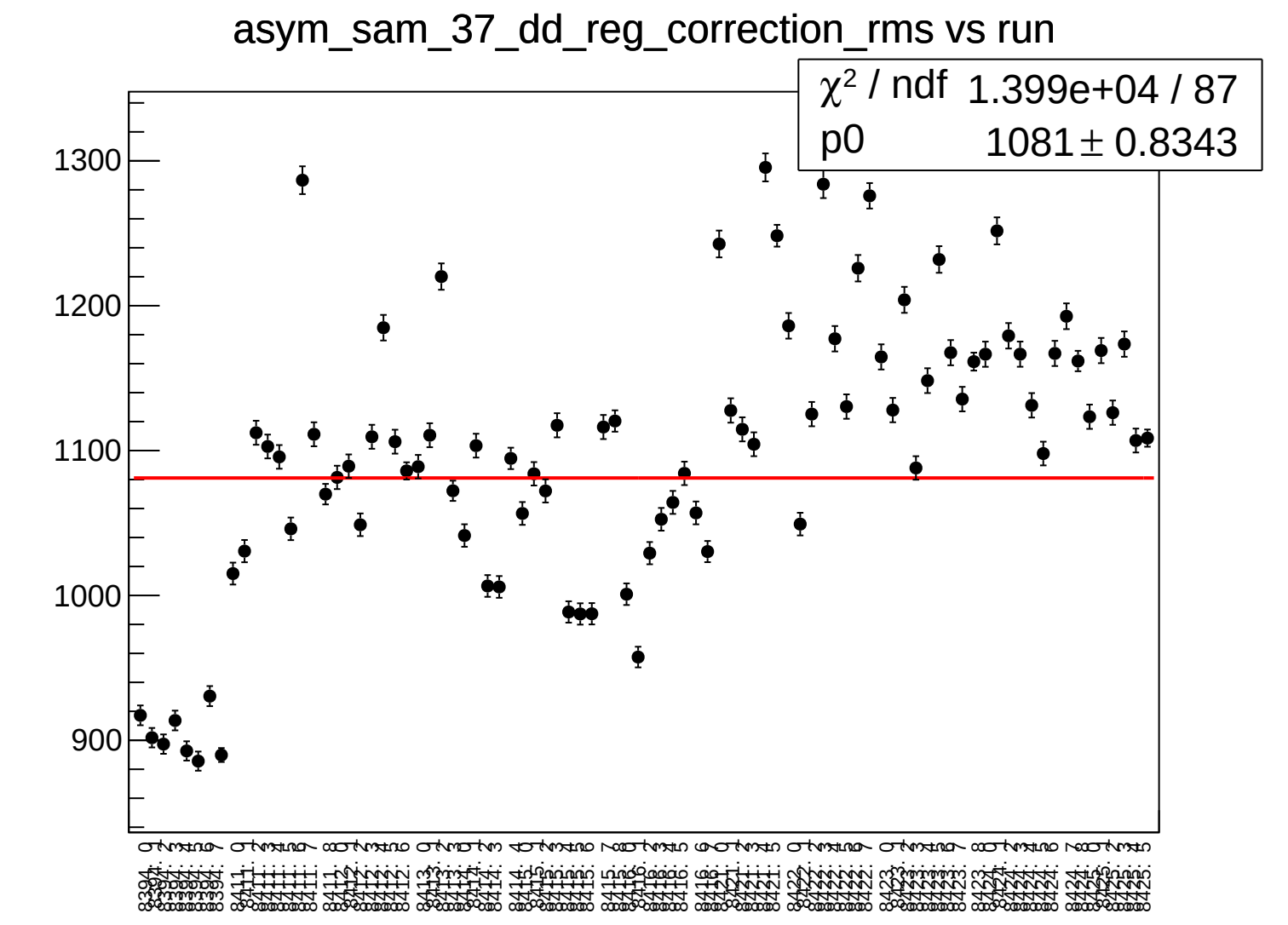

reg_asym_sam_37_dd_mean vs run
χ² / ndf 79.34 / 87
p0 192.7 ± 118.4
pull
Entries 88
Mean 224.3
Std Dev 0

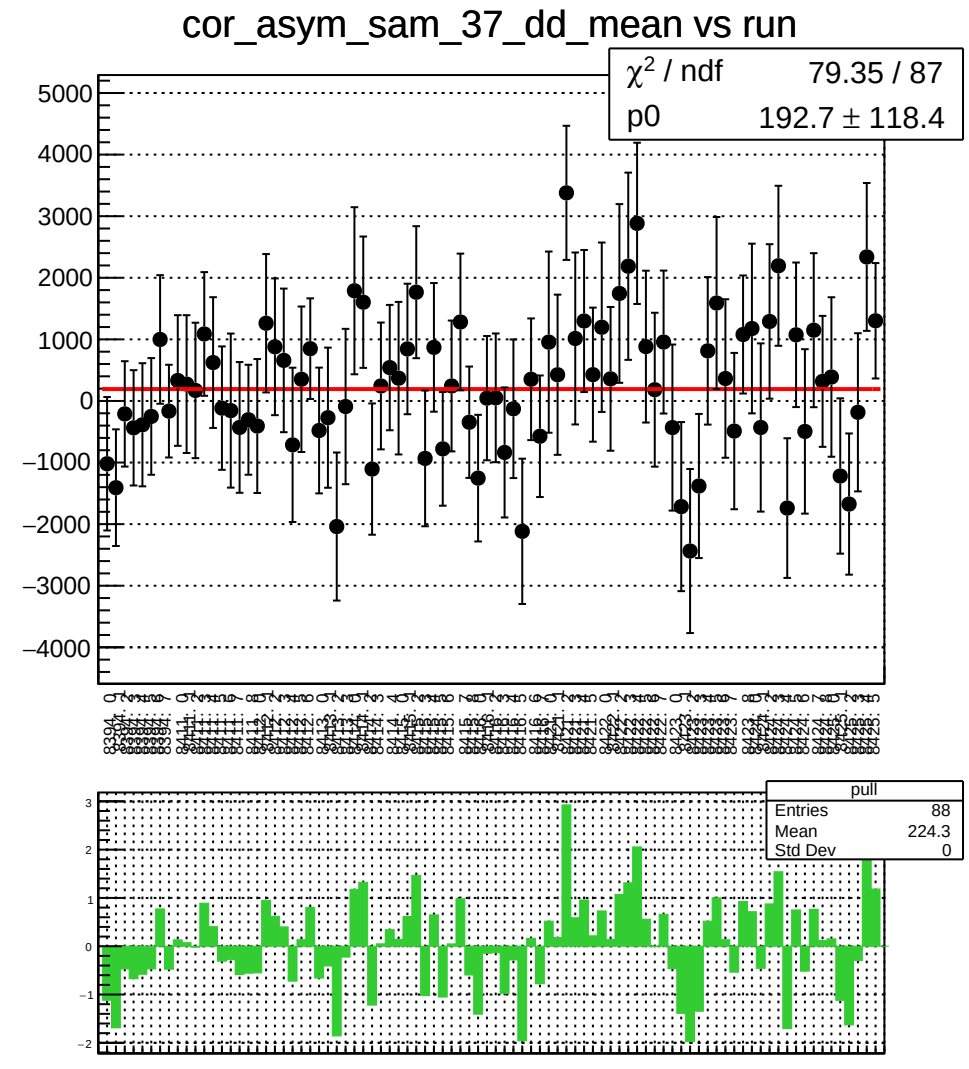

pull1D
Entries 88
Mean 0.02118
Std Dev 0.9493

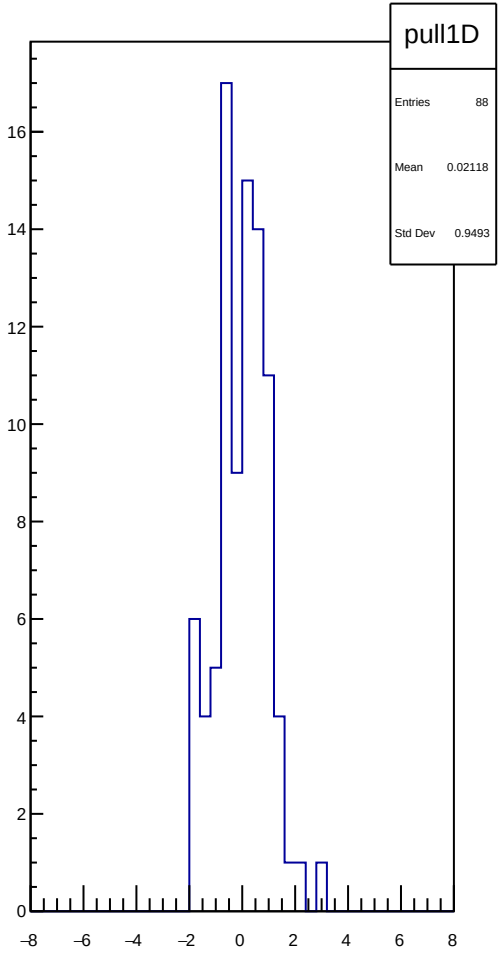

reg_asym_sam_37_dd_rms vs run
χ^2 / ndf 2.502e+04 / 87
p0 108.1 ± 0.08374
150
140
130
120
110
100
90
80

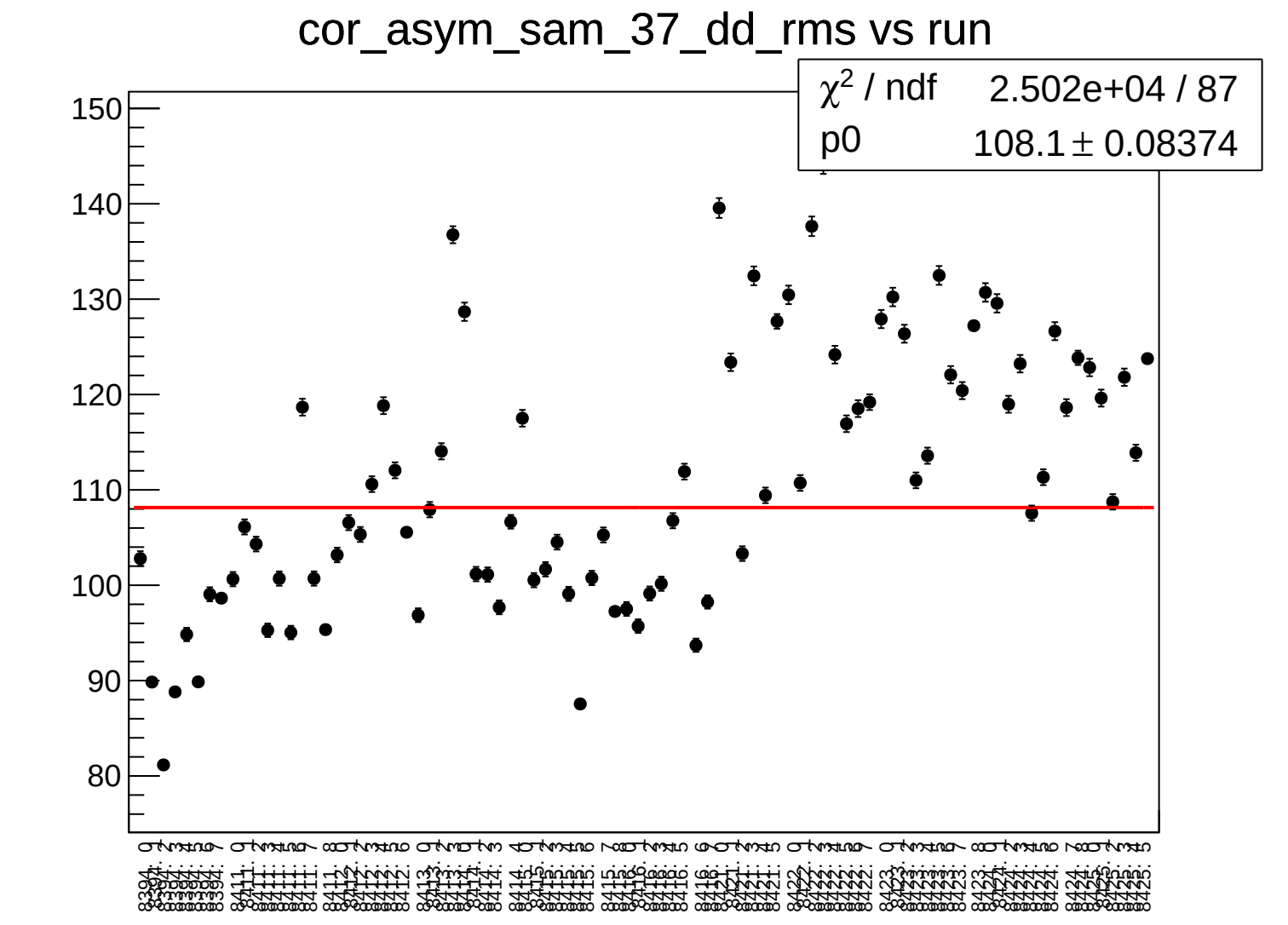

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 66.9 / 87
p0 −5059 ± 1180
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −241.8
Std Dev 0
2
1
0
−1
−2
−3

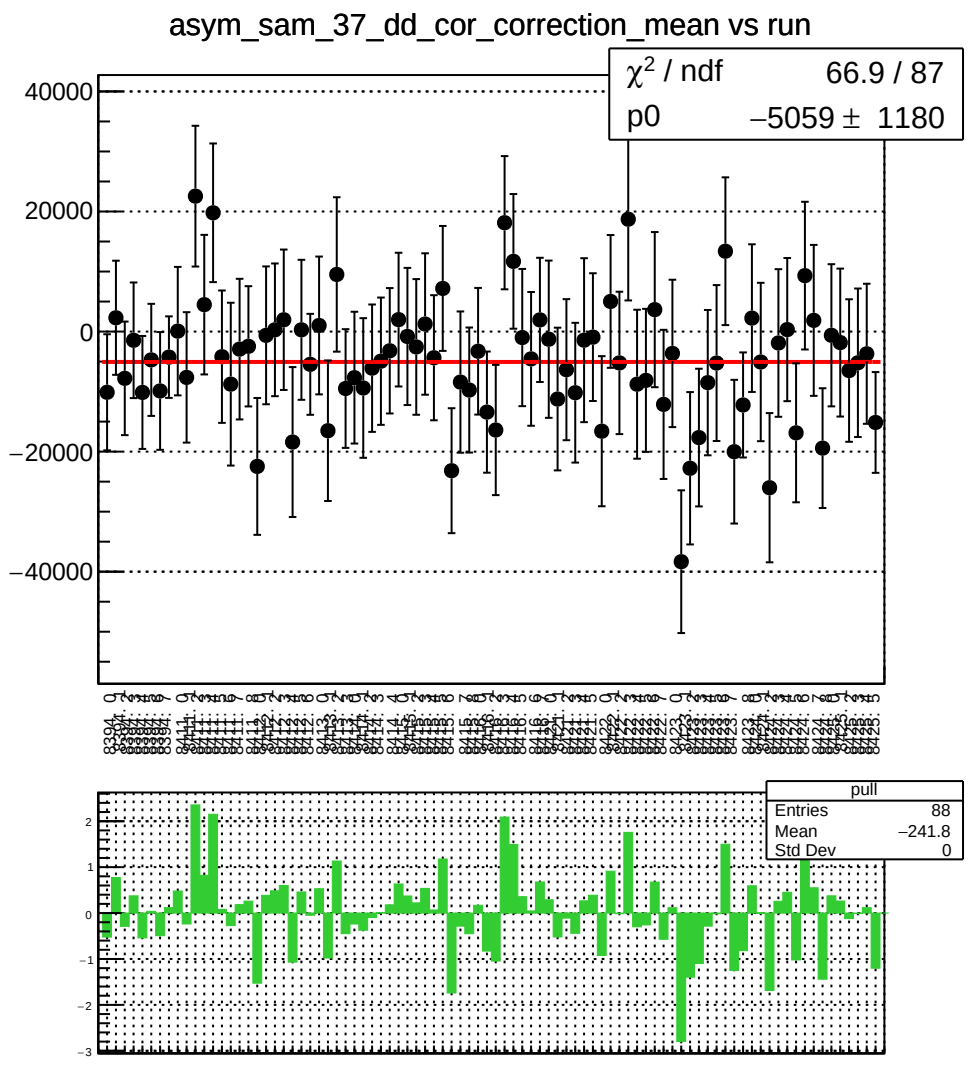

pull1D
Entries 88
Mean 0.01329
Std Dev 0.8718
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

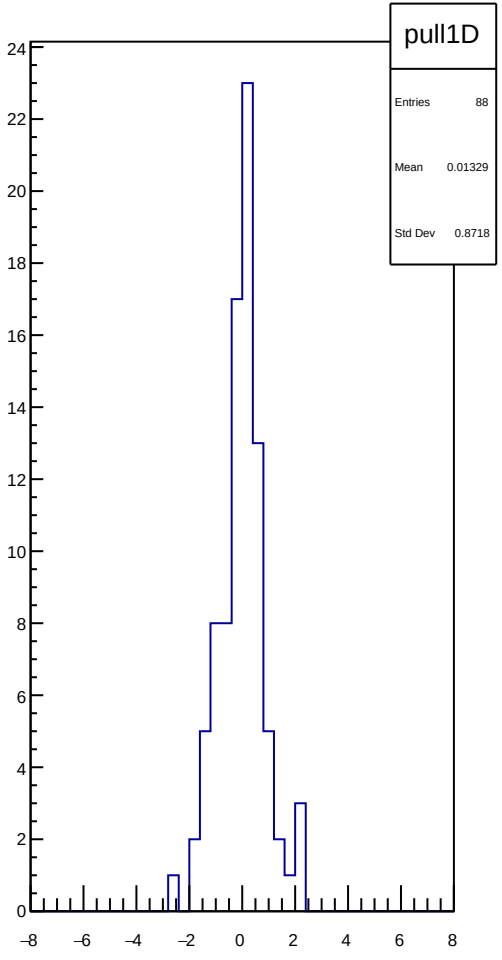

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 1.399e+04 / 87
p0 1081 ± 0.8343
1300
1200
1100
1000
900

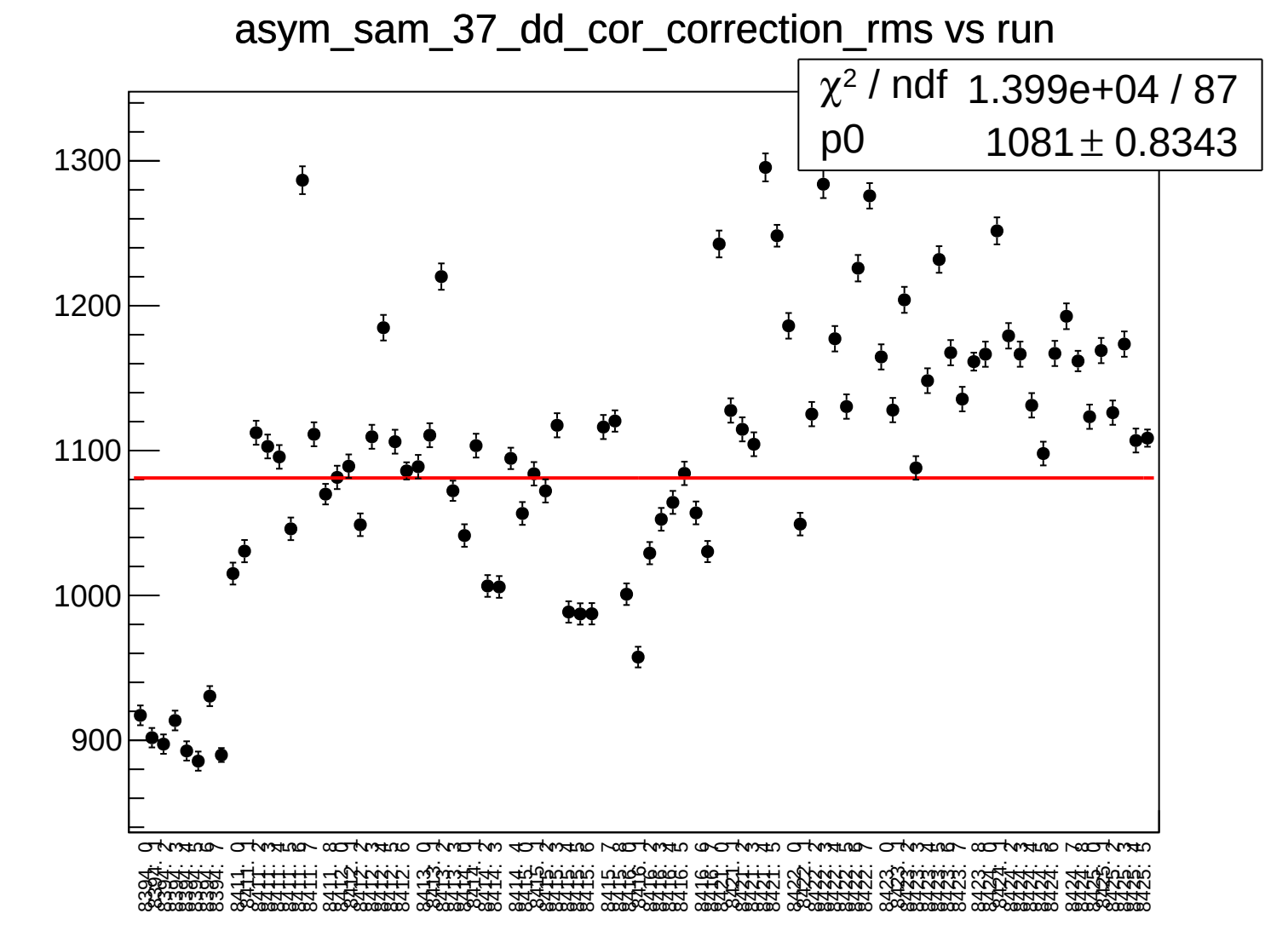

cor_asym_sam_37_dd_mean vs run
χ² / ndf 79.35 / 87
p0 192.7 ± 118.4
pull
Entries 88
Mean 224.3
Std Dev 0

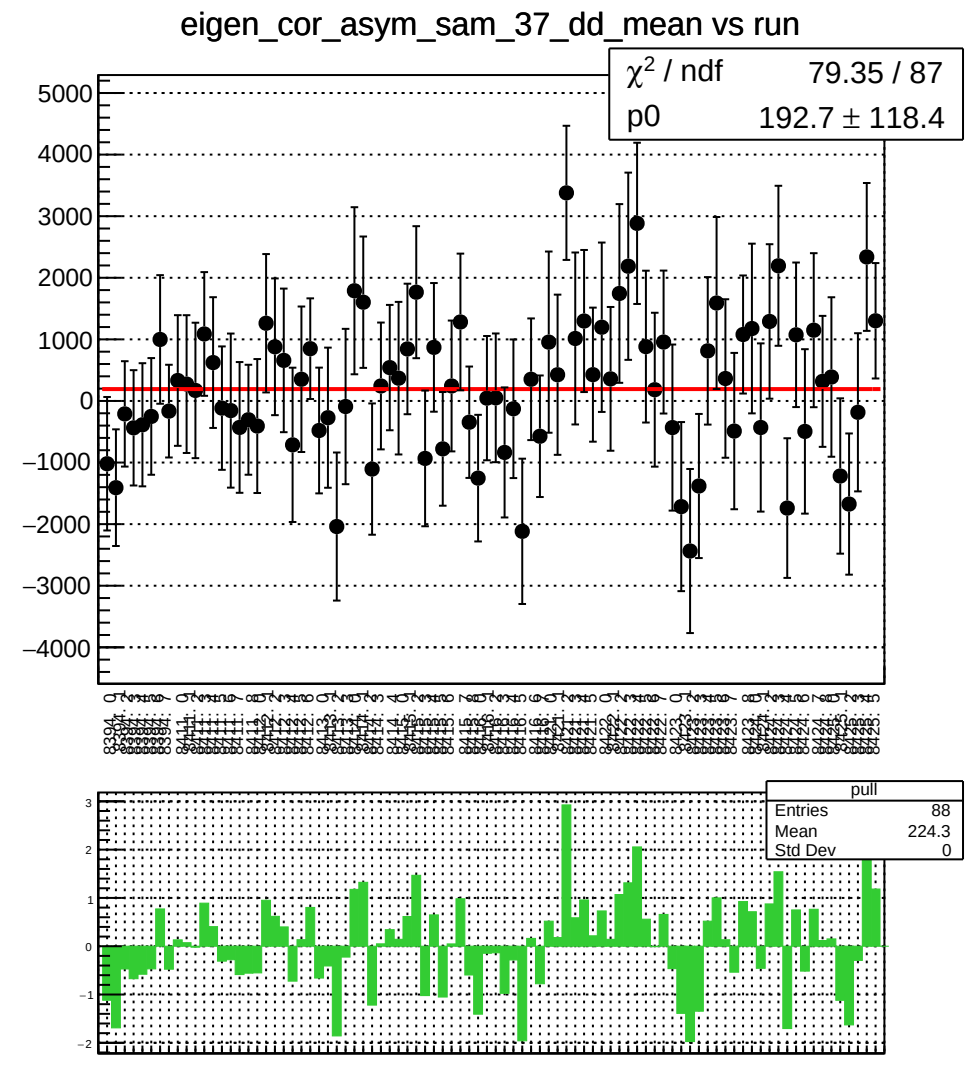

pull1D
Entries 88
Mean 0.02118
Std Dev 0.9493

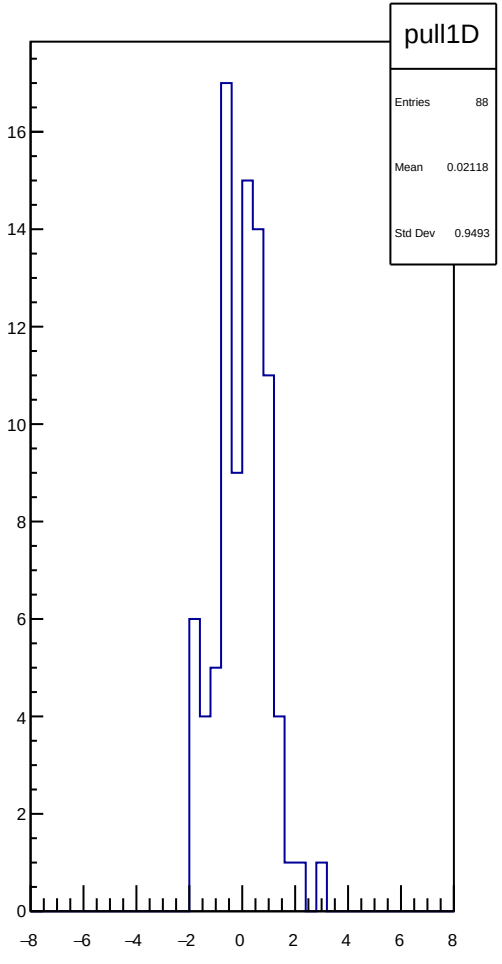

cor_asym_sam_37_dd_rms vs run
χ^2 / ndf 2.502e+04 / 87
p0 108.1 ± 0.08374
150
140
130
120
110
100
90
80

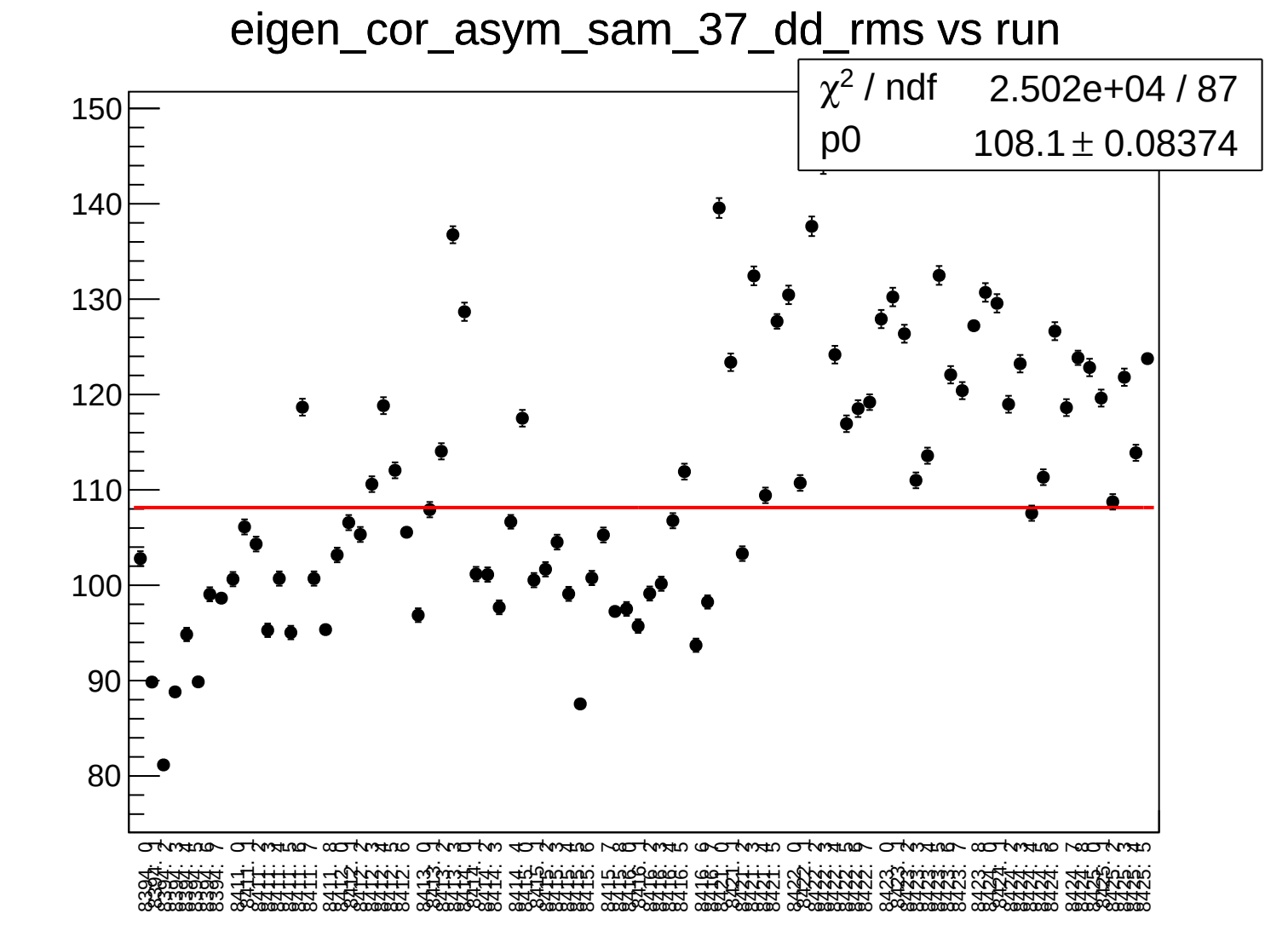

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 66.9 / 87
p0 −5059 ± 1180
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −241.8
Std Dev 0
2
1
0
−1
−2
−3

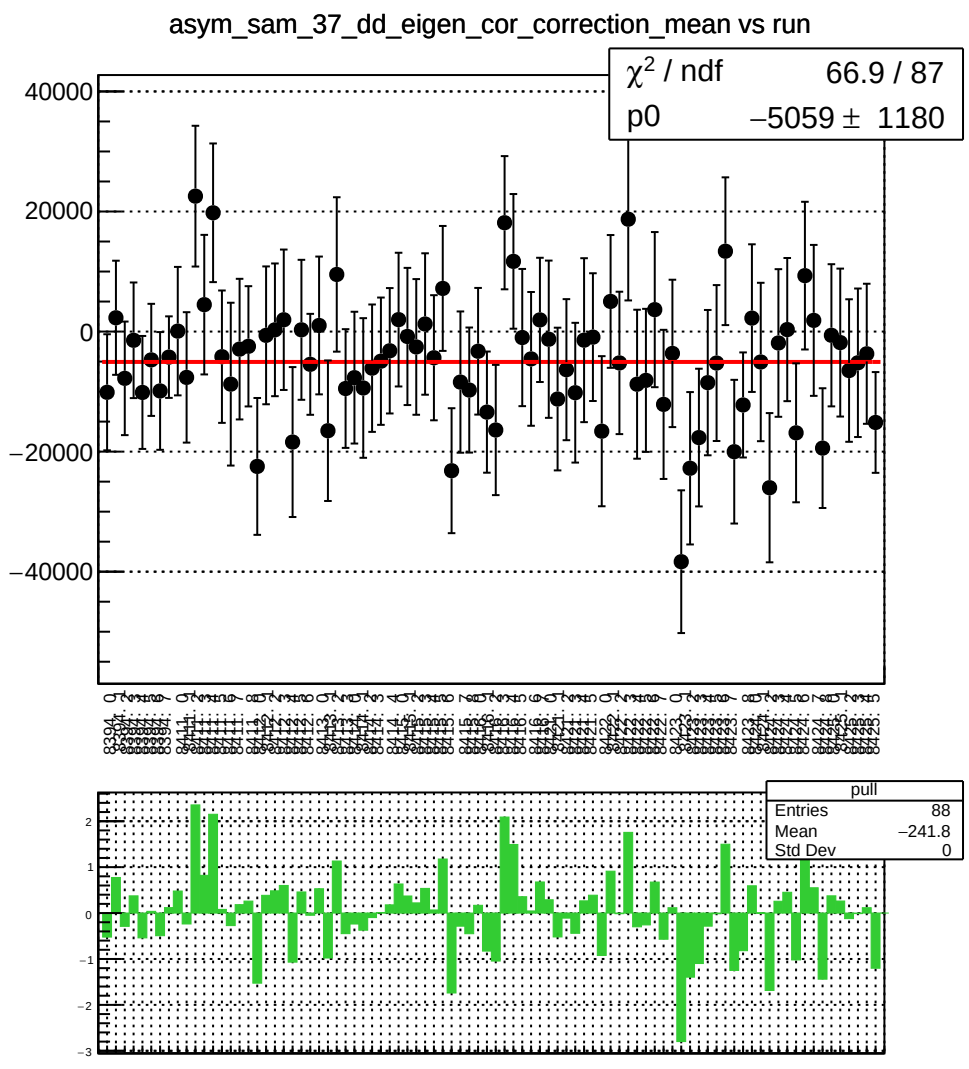

pull1D
Entries 88
Mean 0.01329
Std Dev 0.8718
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

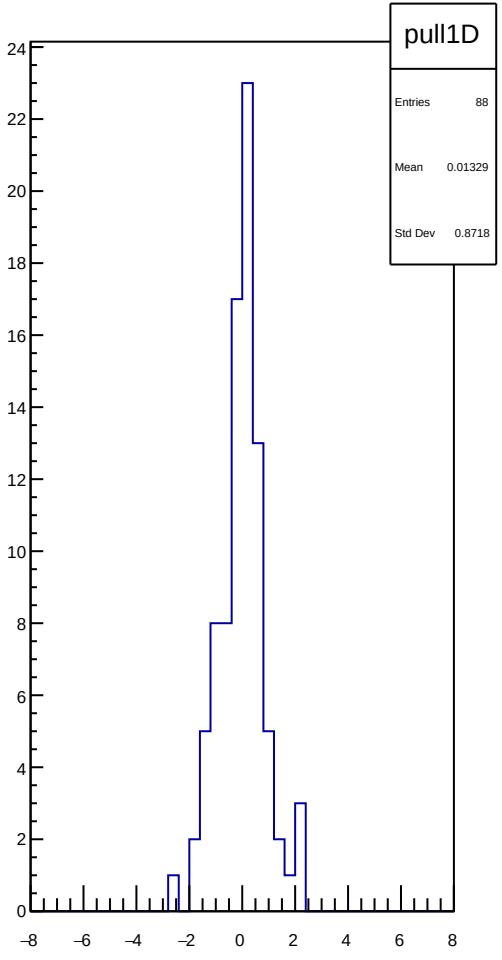

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 1.399e+04 / 87
p0 1081 ± 0.8343
1300
1200
1100
1000
900

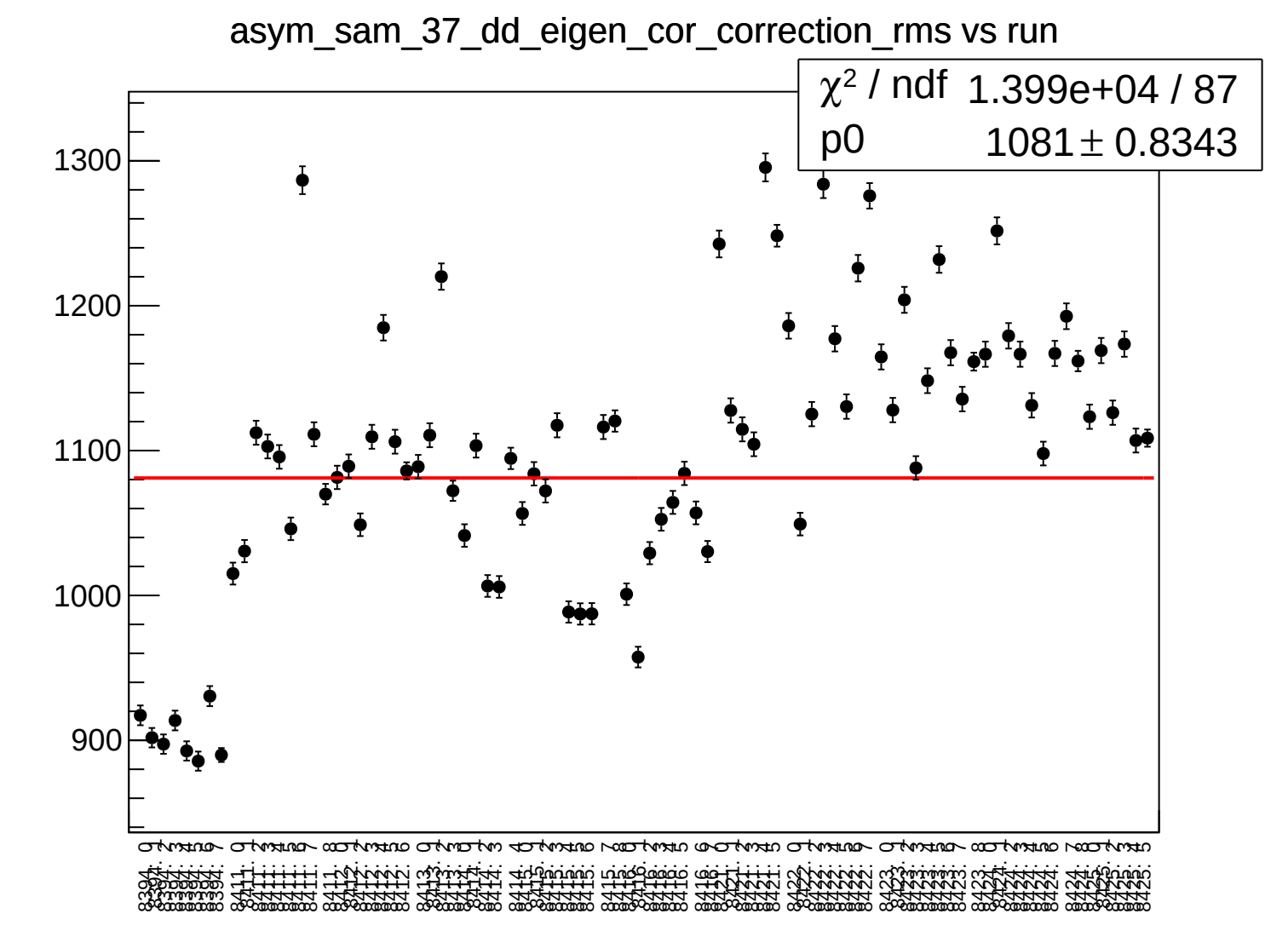

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 79.35 / 87
p0 192.7 ± 118.4
pull
Entries 88
Mean 224.3
Std Dev 0

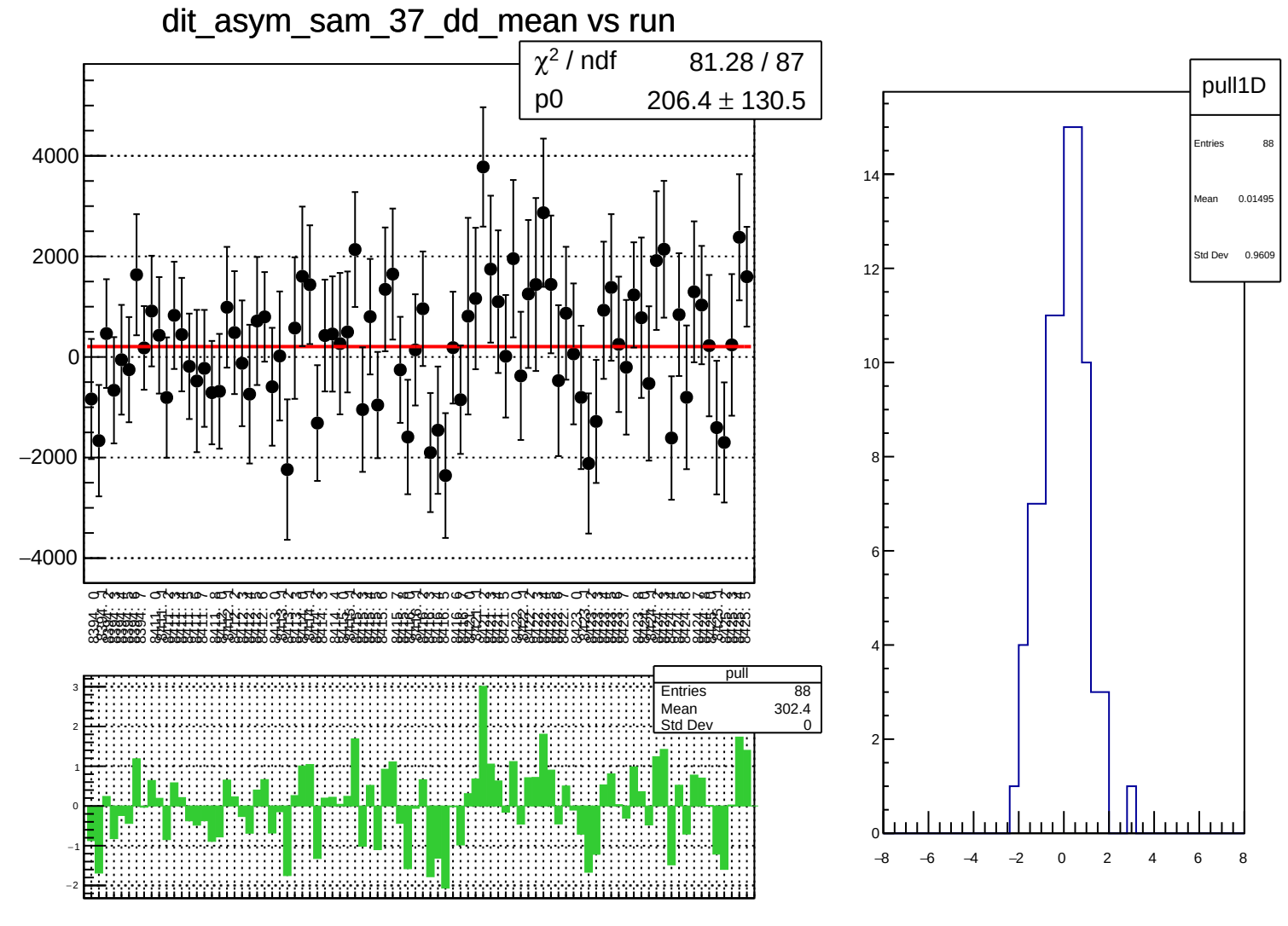

pull1D
Entries 88
Mean 0.02118
Std Dev 0.9493

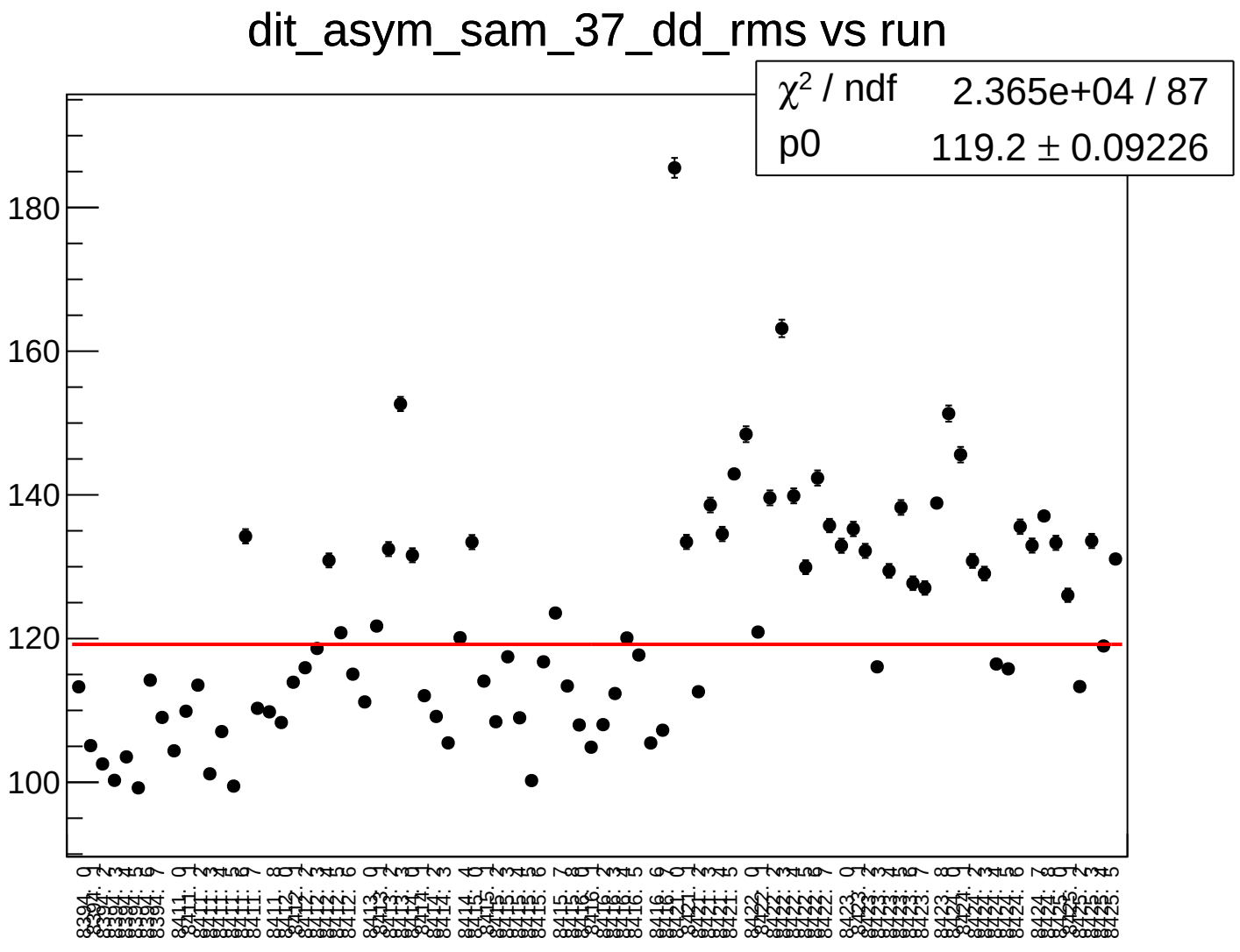

eigen_cor_asym_sam_37_dd_rms vs run
χ^2 / ndf 2.502e+04 / 87
p0 108.1 ± 0.08374
150
140
130
120
110
100
90
80

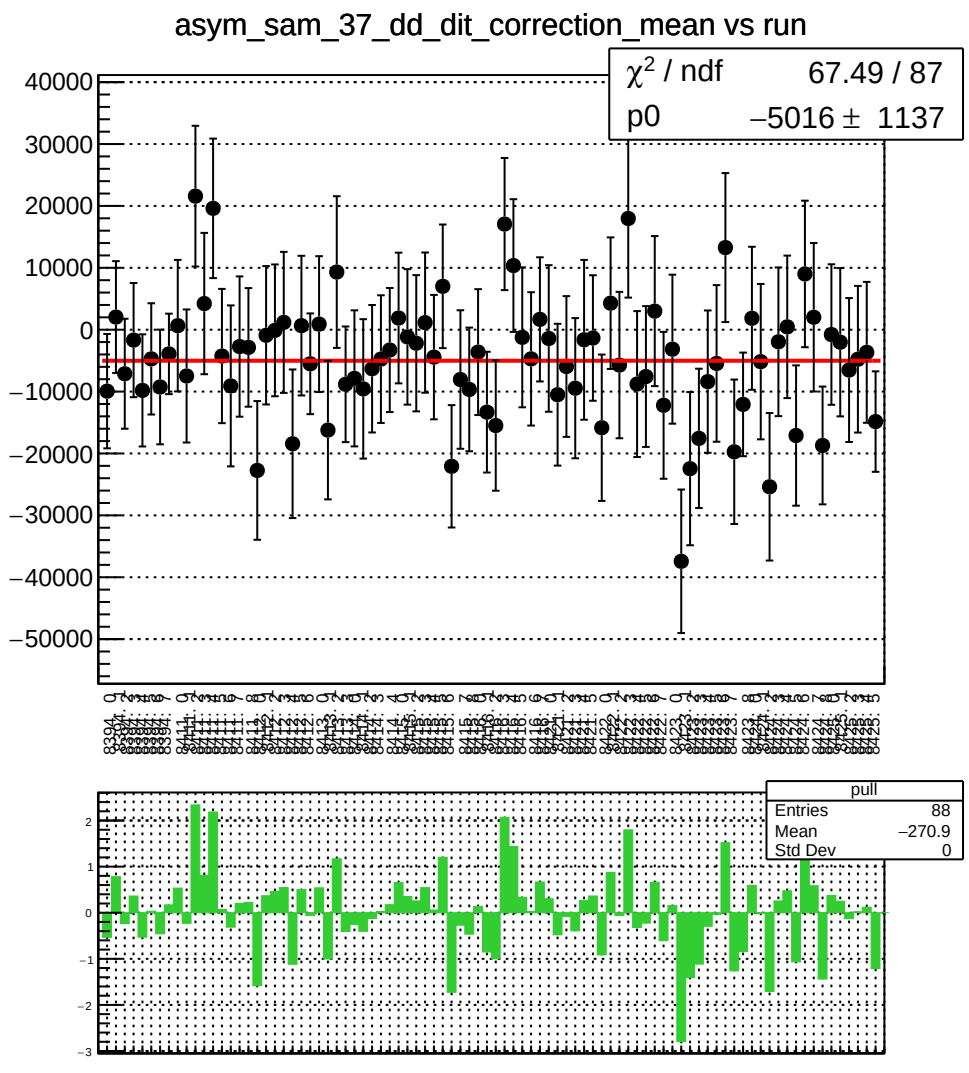

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 66.9 / 87
p0 −5059 ± 1180
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −241.8
Std Dev 0
2
1
0
−1
−2
−3

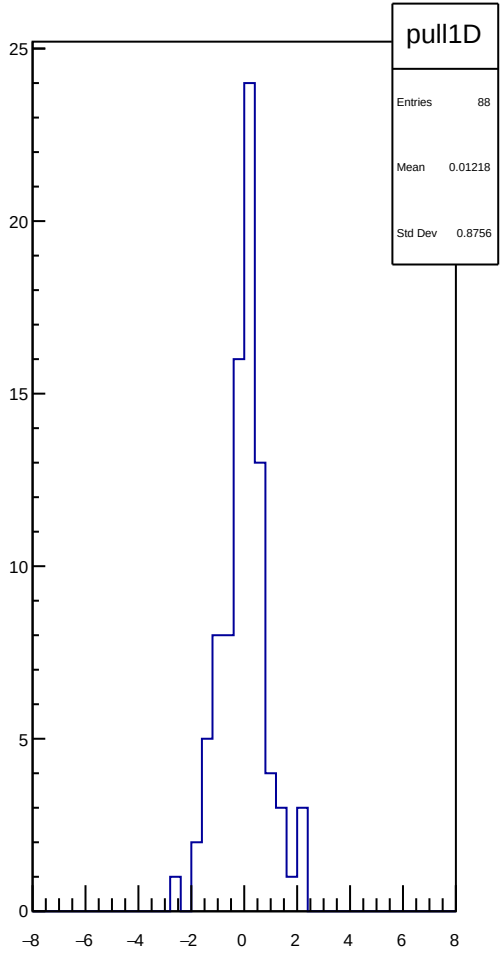

pull1D
Entries 88
Mean 0.01329
Std Dev 0.8718
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

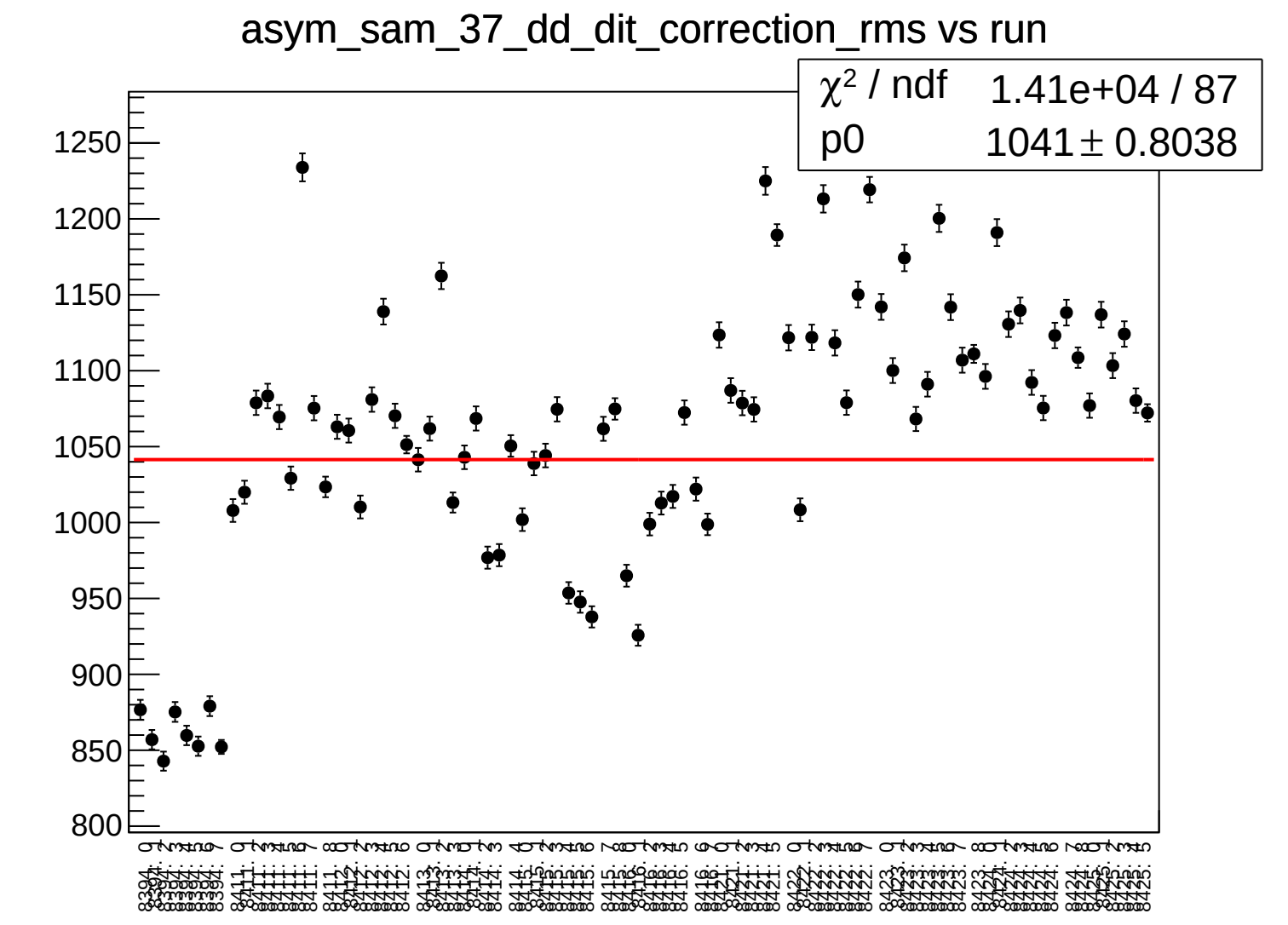

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.399e+04 / 87
p0 1081 ± 0.8343
1300
1200
1100
1000
900

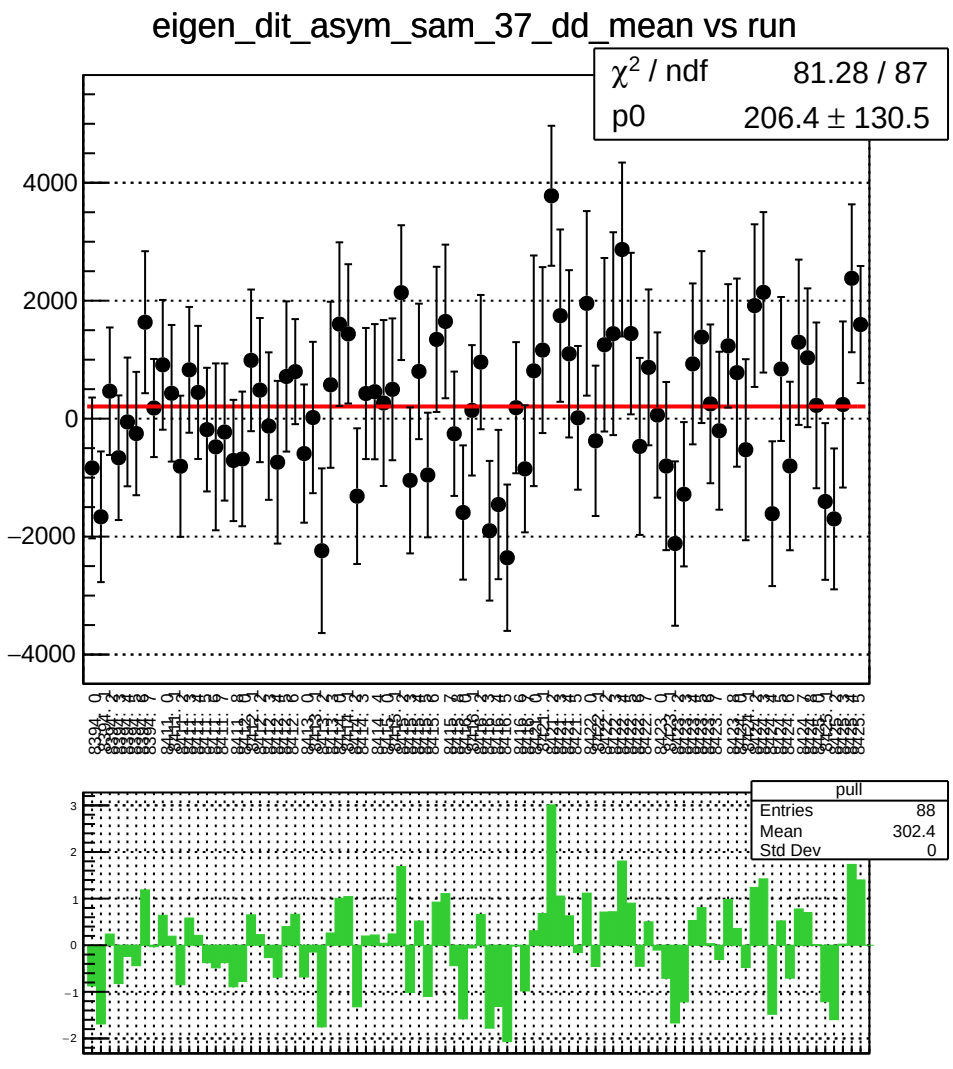

dit_asym_sam_37_dd_mean vs run
χ^2 / ndf 81.28 / 87
p0 206.4 ± 130.5
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 302.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01495
Std Dev 0.9609
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

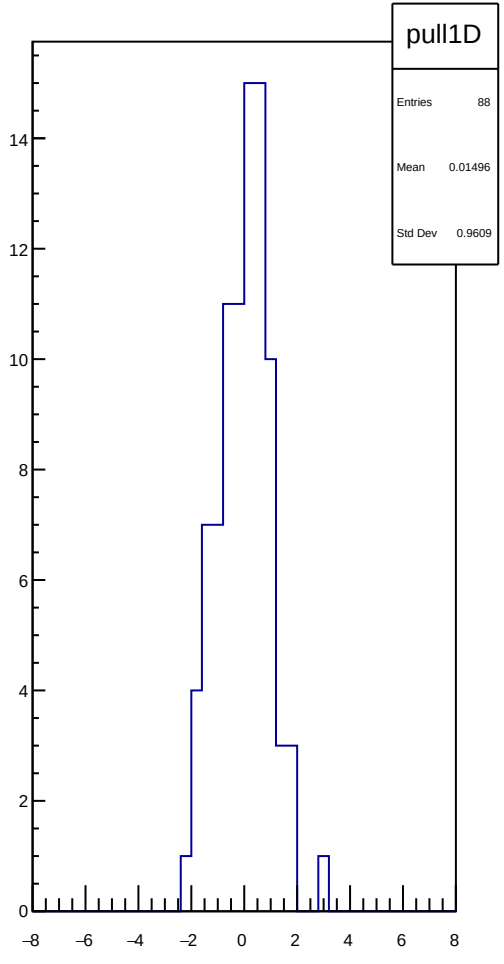

dit_asym_sam_37_dd_rms vs run
χ² / ndf 2.365e+04 / 87
p0 119.2 ± 0.09226
180
160
140
120
100

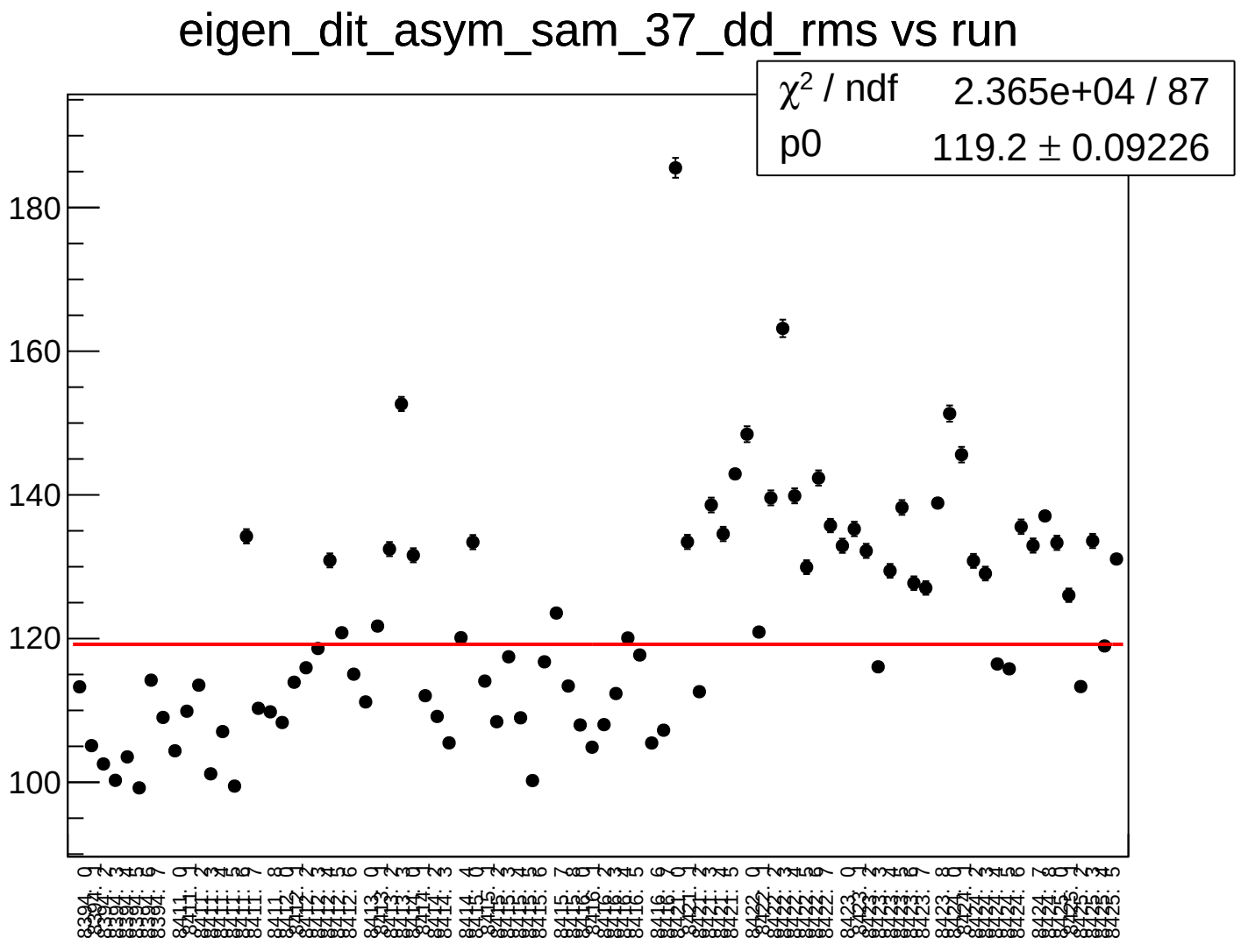

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 67.49 / 87
p0 −5016 ± 1137
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 88
Mean −270.9
Std Dev 0
2
1
0
−1
−2
−3

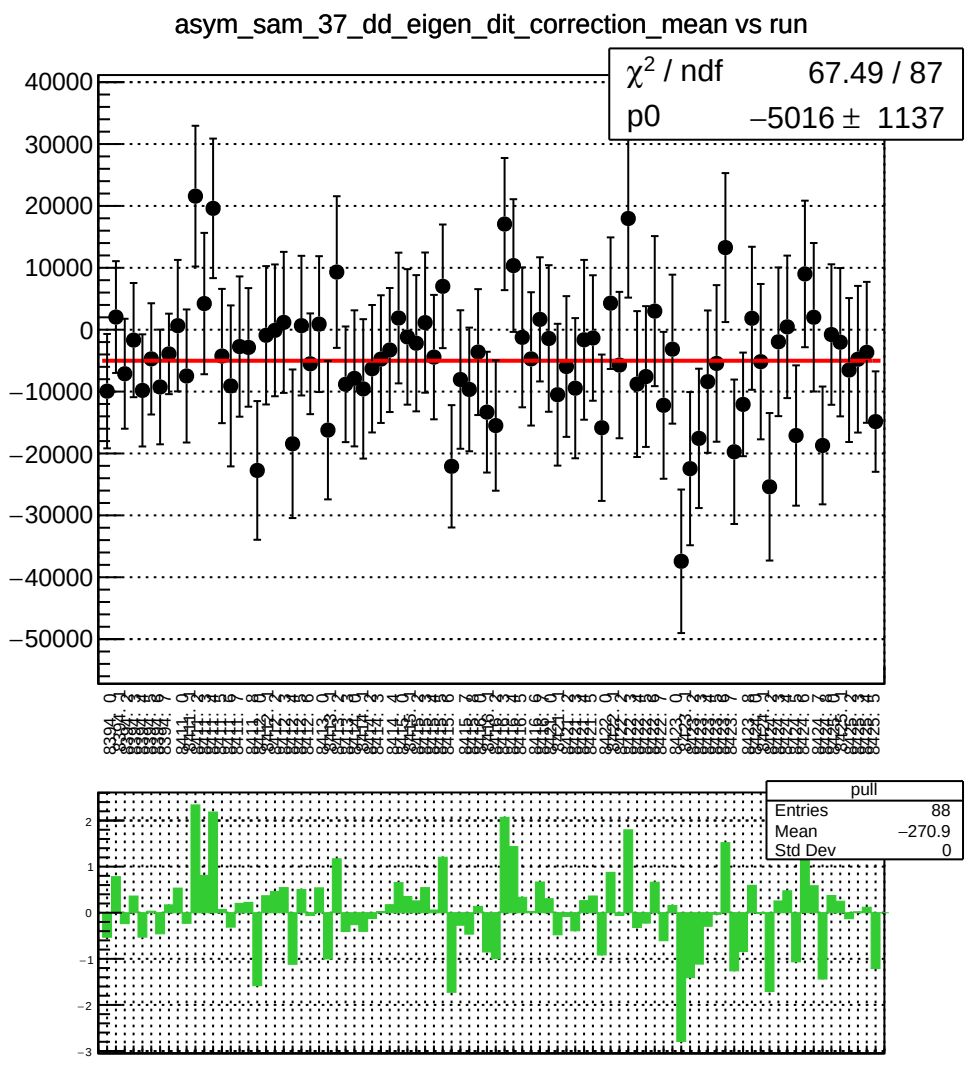

pull1D
Entries 88
Mean 0.01218
Std Dev 0.8756
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

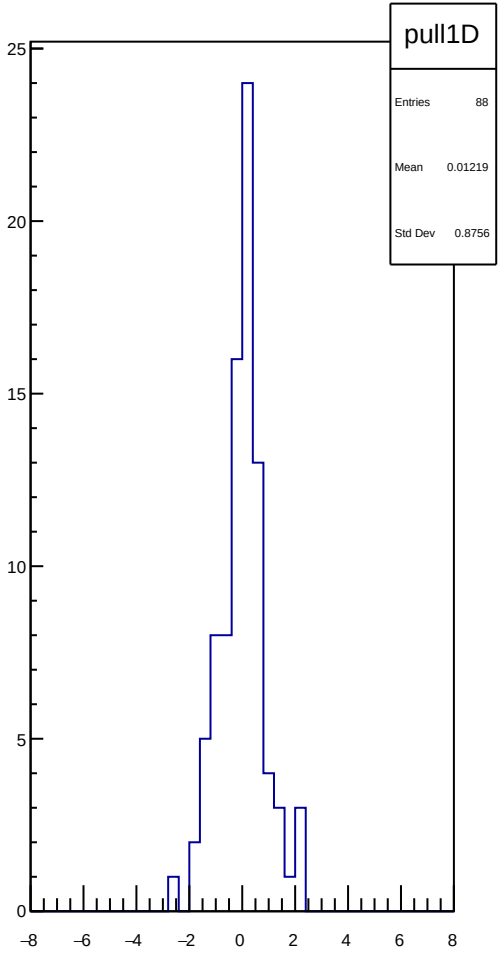

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 1.41e+04 / 87
p0 1041 ± 0.8038
1250
1200
1150
1100
1050
1000
950
900
850
800

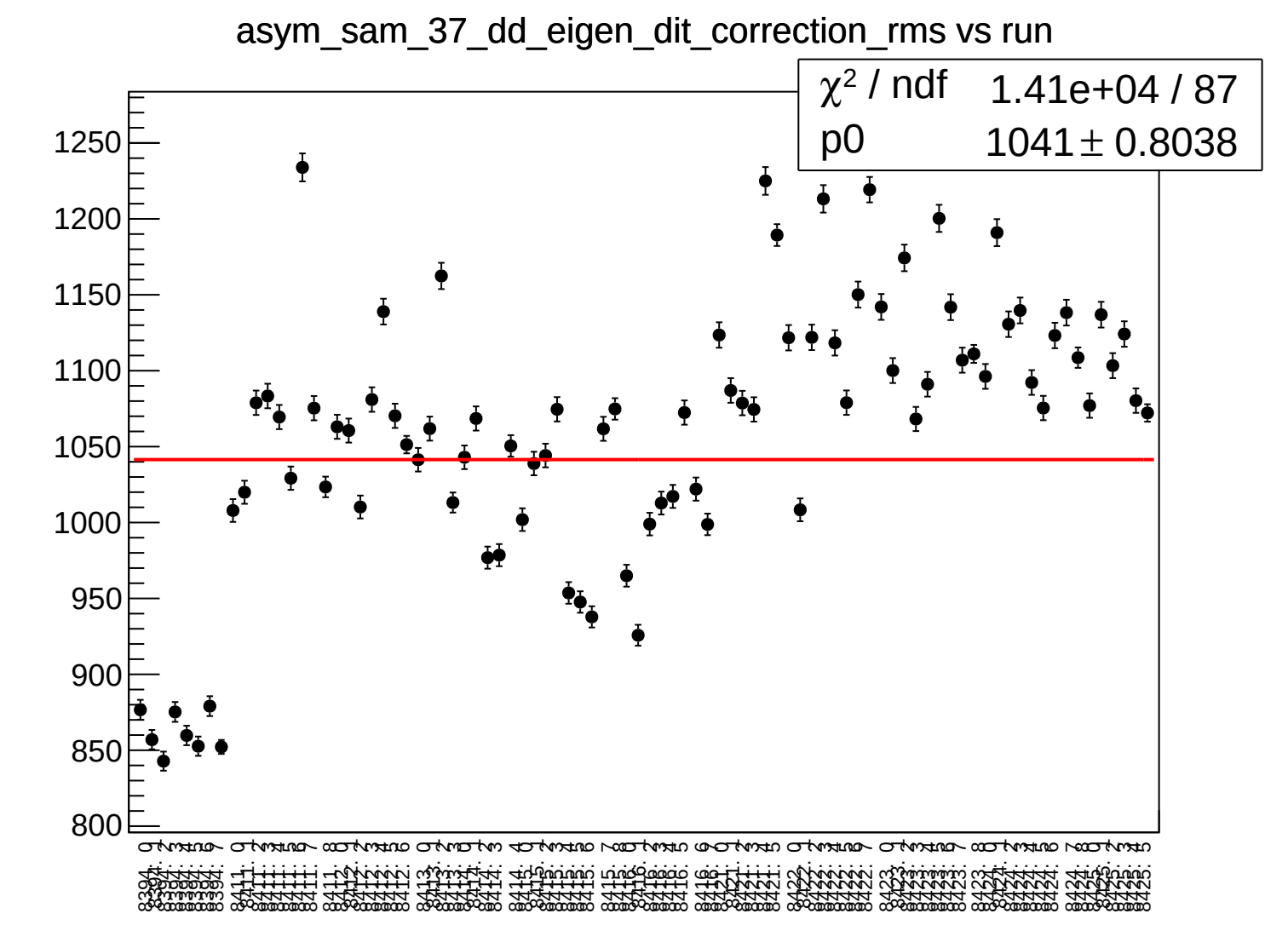

eigen_dit_asym_sam_37_dd_mean vs run
χ^2 / ndf 81.28 / 87
p0 206.4 ± 130.5
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 302.4
Std Dev 0
3
2
1
0
−1
−2

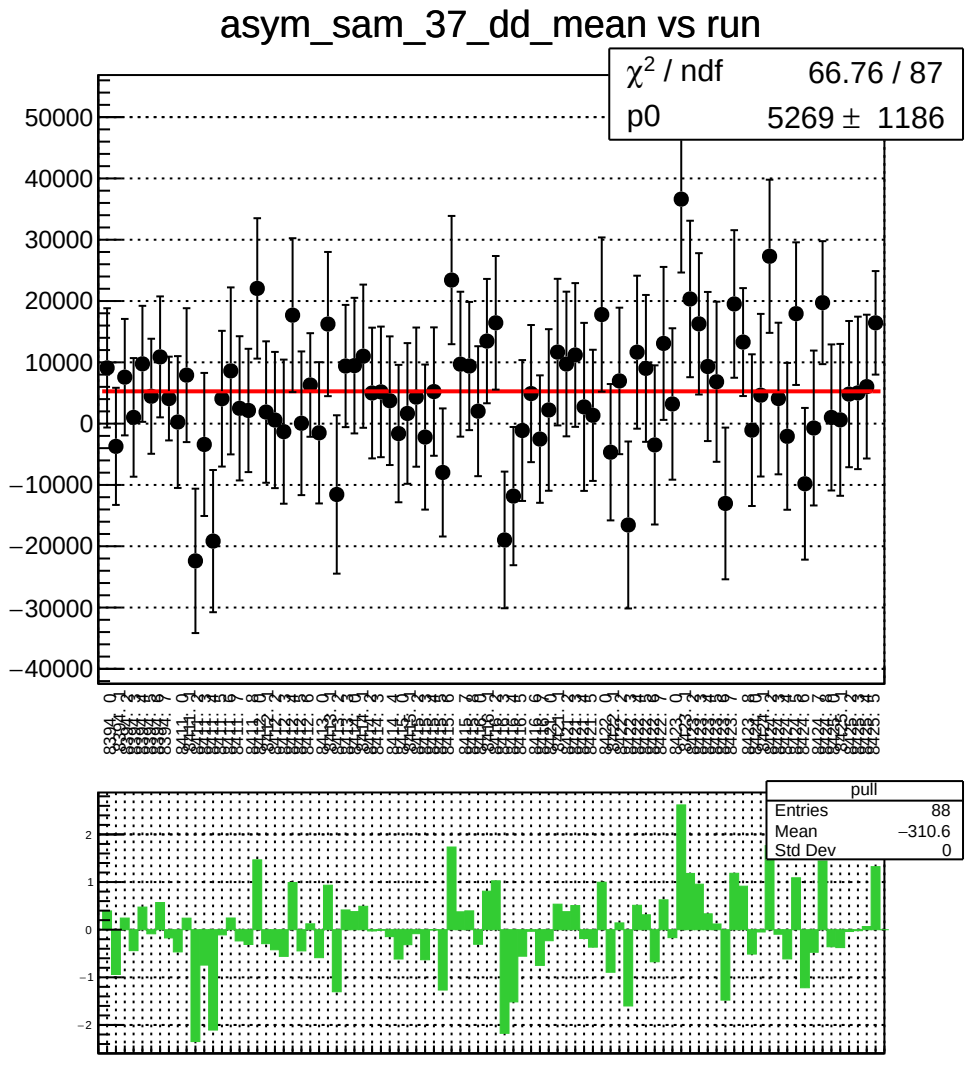

pull1D
Entries 88
Mean 0.01496
Std Dev 0.9609
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

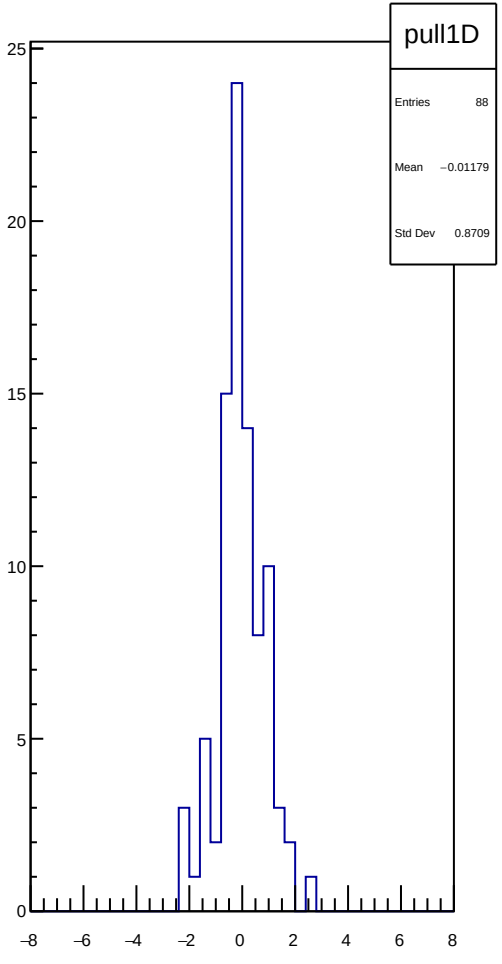

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 2.365e+04 / 87
p0 119.2 ± 0.09226
180
160
140
120
100

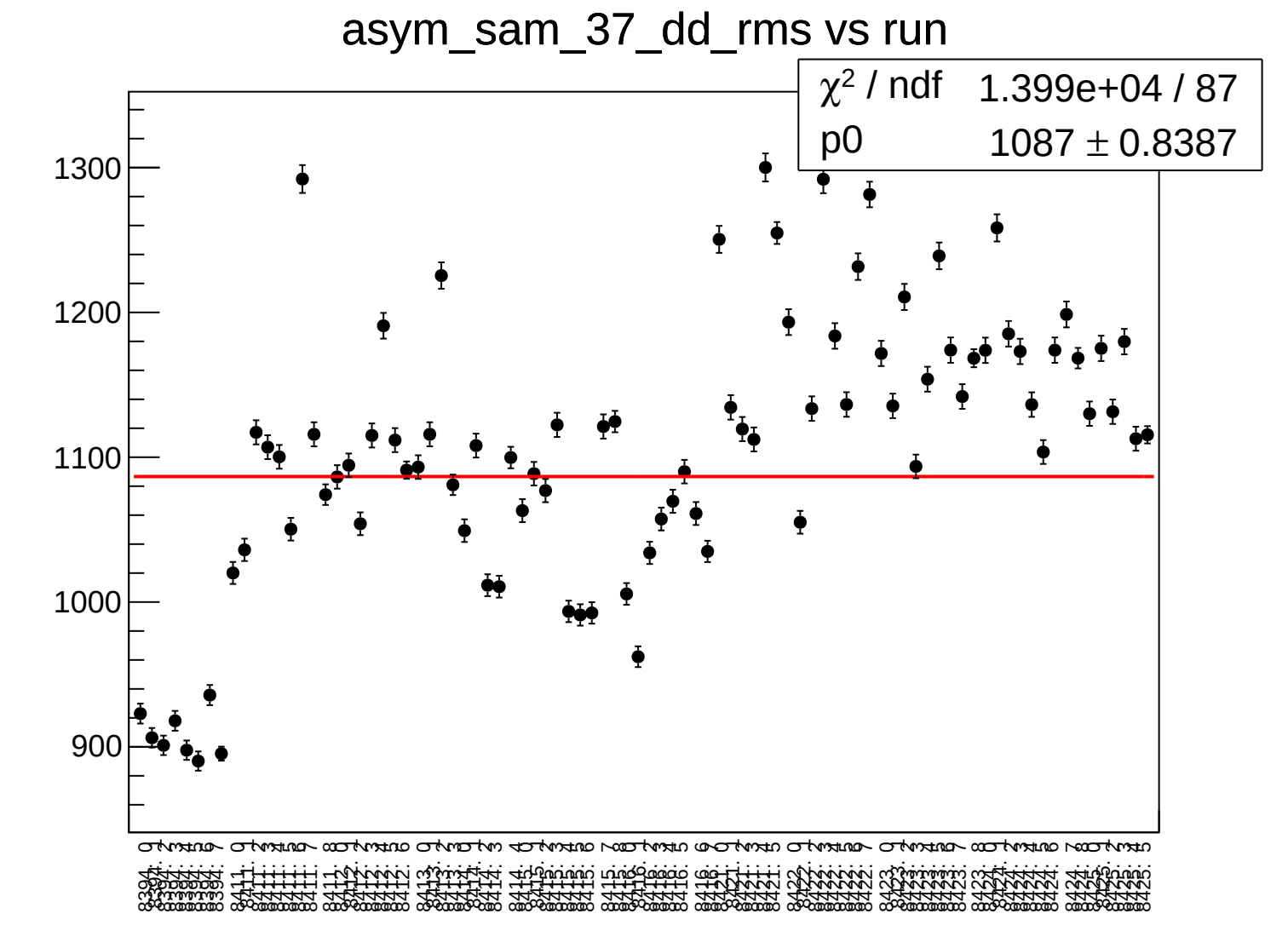

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 67.49 / 87
p0 −5016 ± 1137
pull
Entries 88
Mean −270.9
Std Dev 0

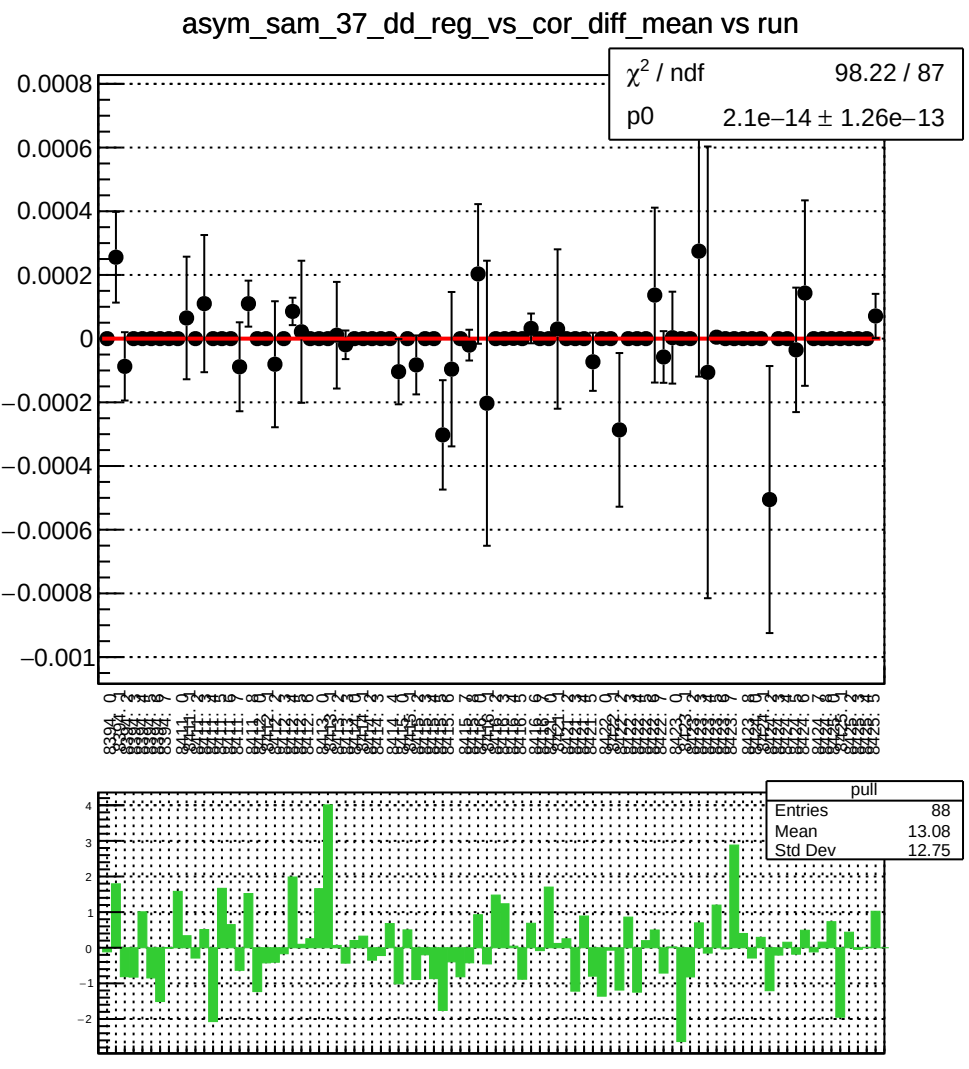

pull1D
Entries 88
Mean 0.01219
Std Dev 0.8756

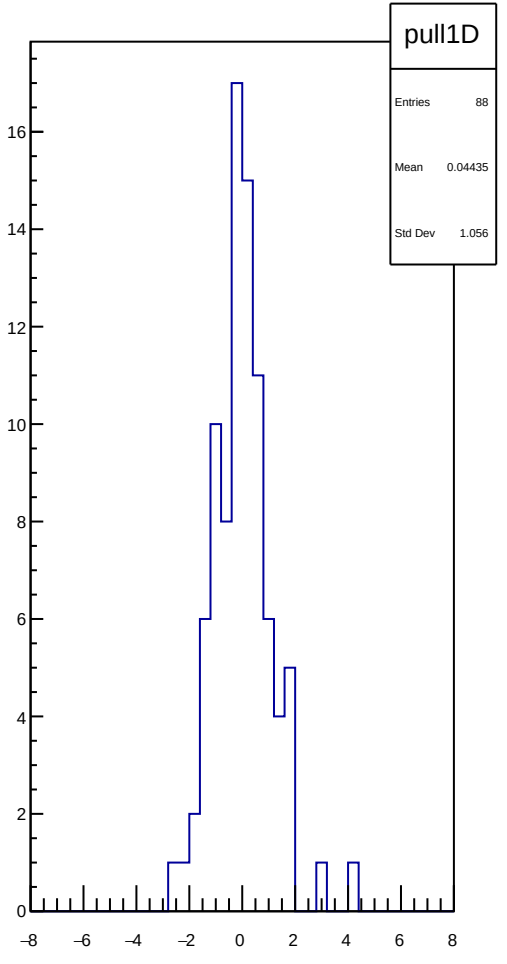

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.41e+04 / 87
p0 1041 ± 0.8038
1250
1200
1150
1100
1050
1000
950
900
850
800

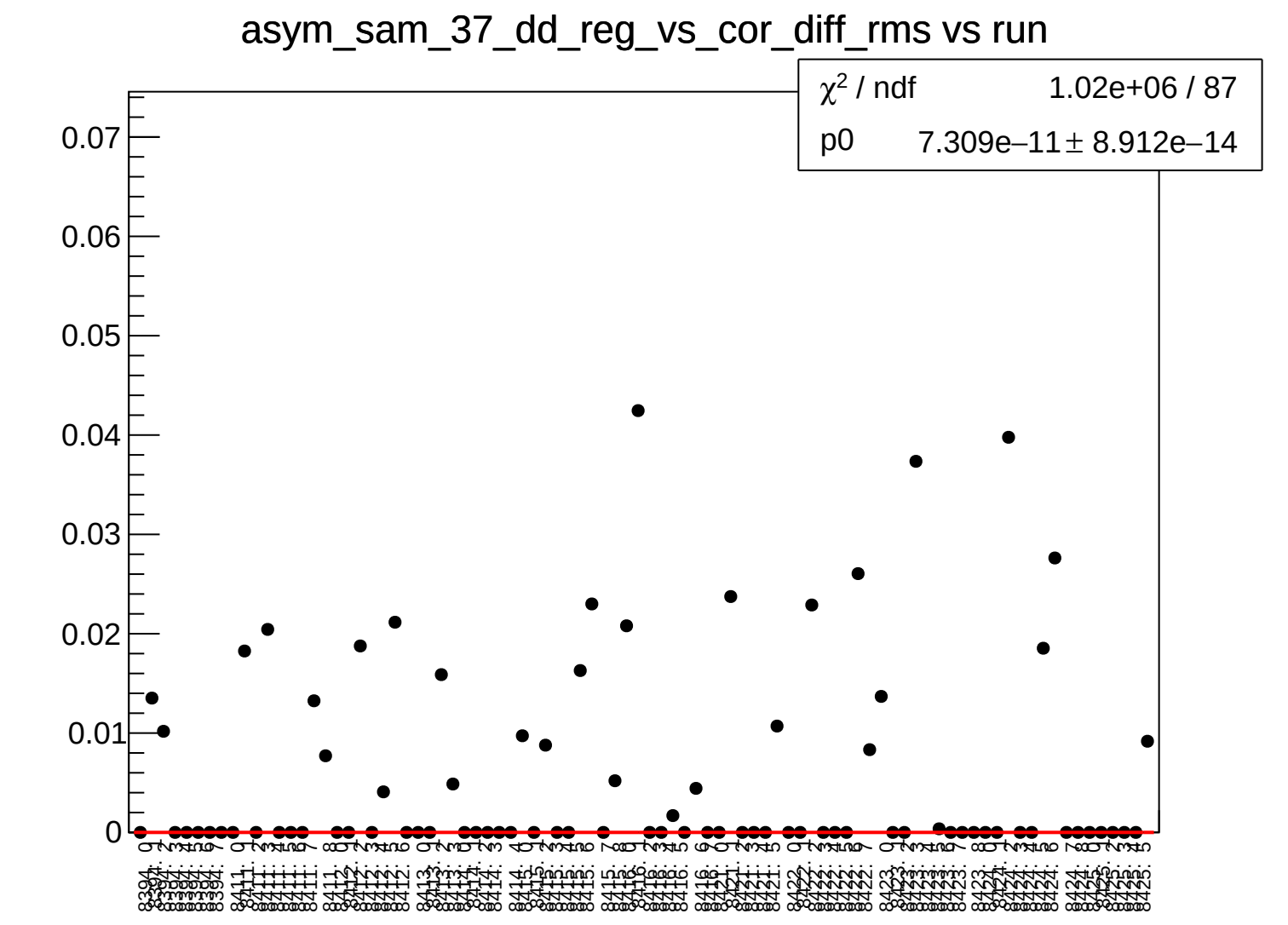

asym_sam_37_dd_mean vs run
χ² / ndf 66.76 / 87
p0 5269 ± 1186
pull
Entries 88
Mean −310.6
Std Dev 0

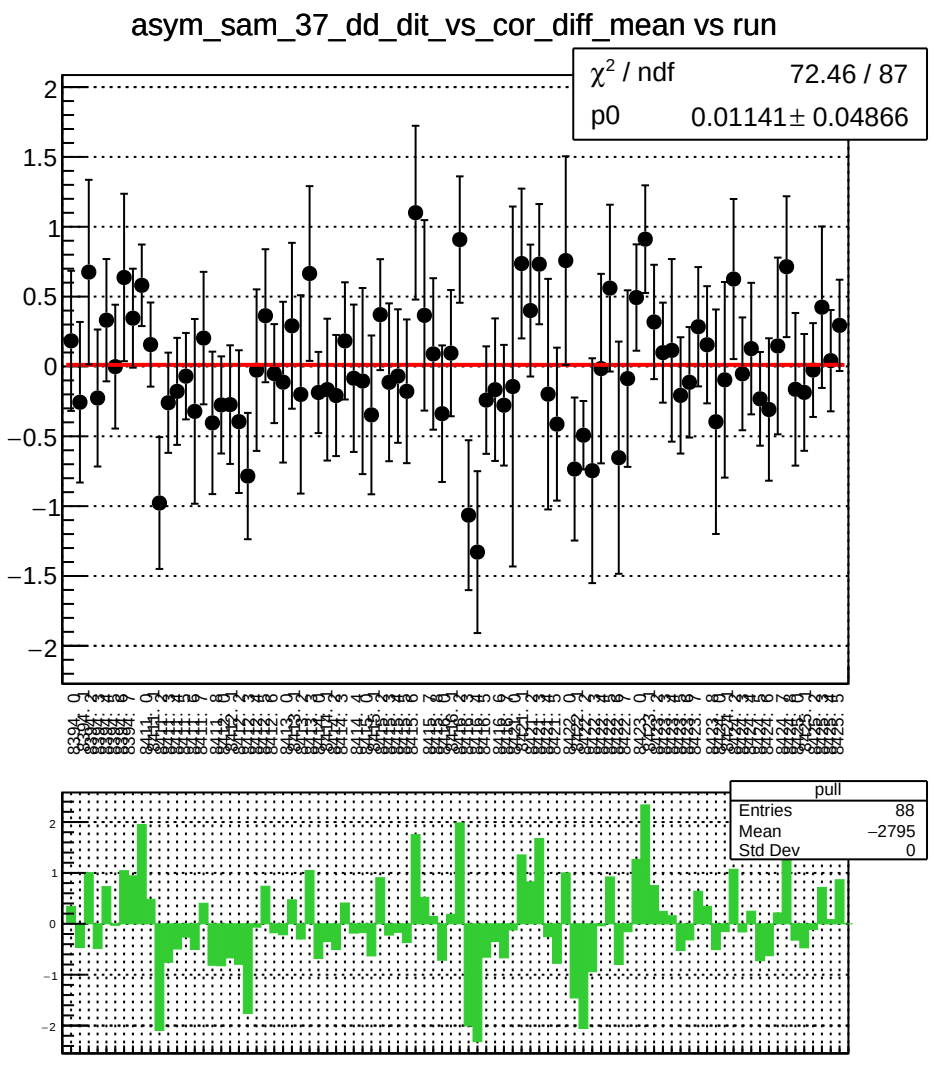

pull1D
Entries 88
Mean −0.01179
Std Dev 0.8709

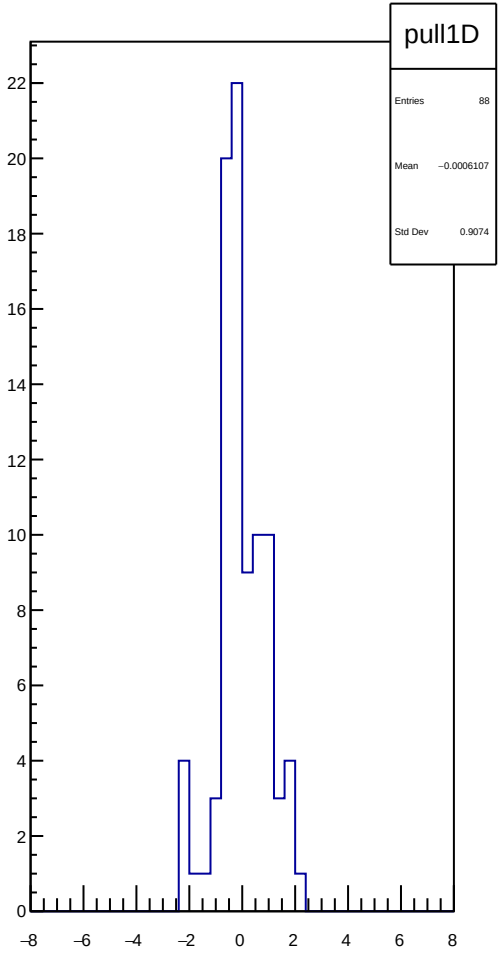

asym_sam_37_dd_rms vs run
χ² / ndf 1.399e+04 / 87
p0 1087 ± 0.8387
1300
1200
1100
1000
900

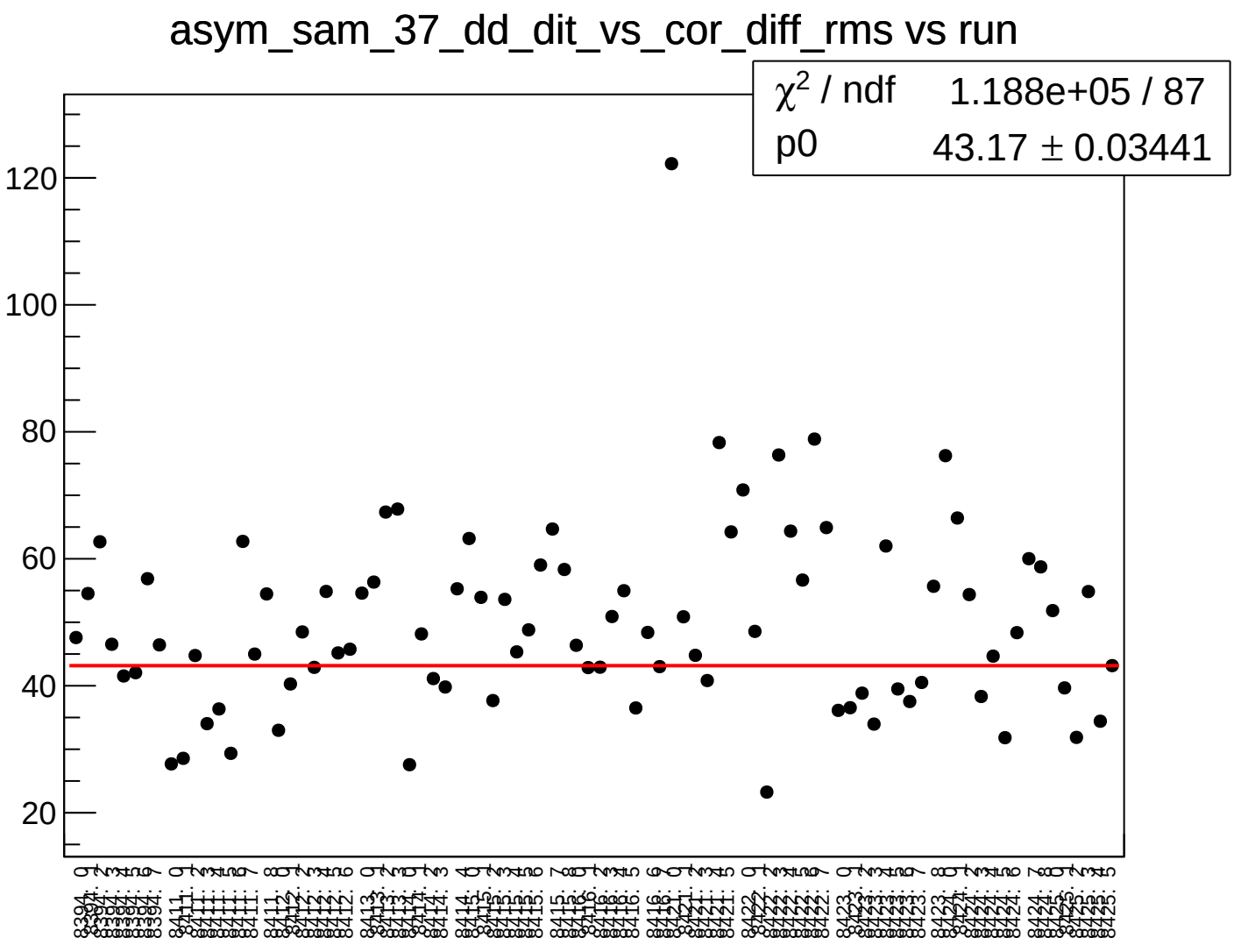

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 98.22 / 87
p0 2.1e−14 ± 1.26e−13
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 88
Mean 13.08
Std Dev 12.75
4
3
2
1
0
−1
−2

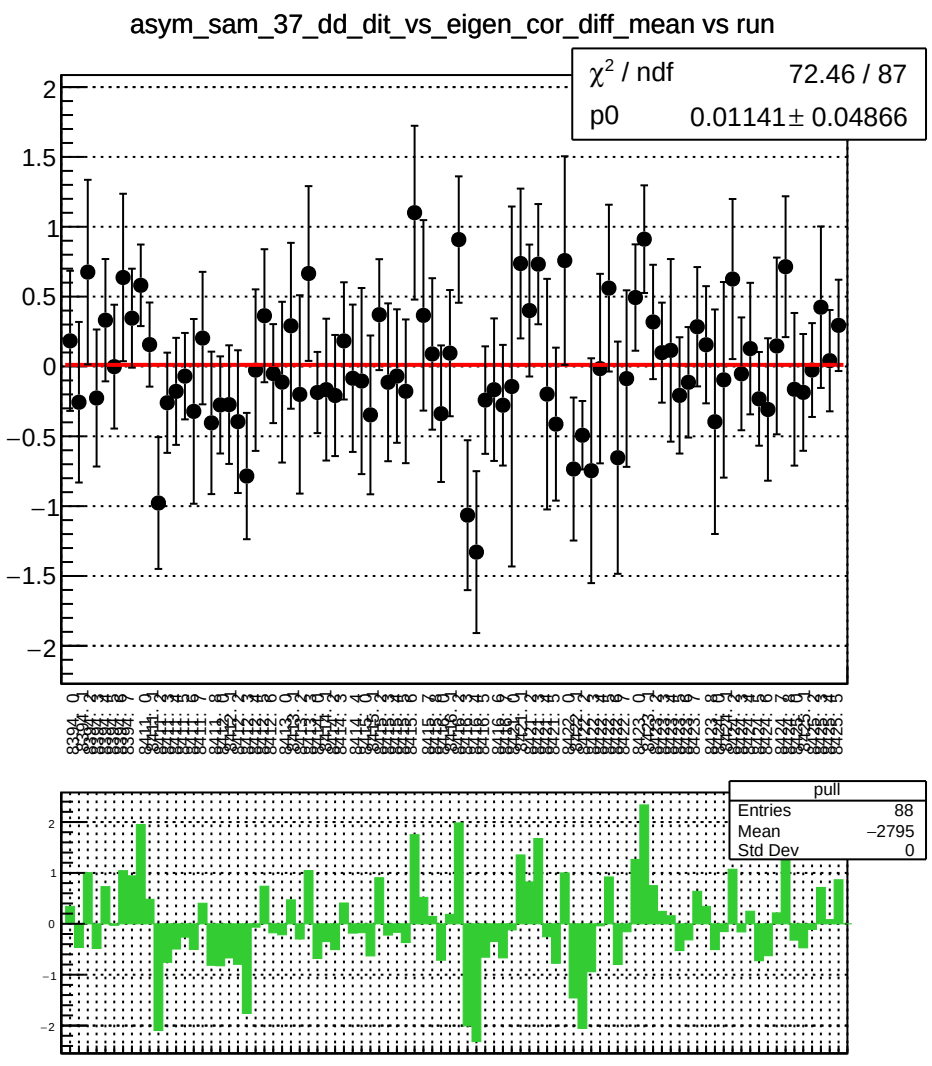

pull1D
Entries 88
Mean 0.04435
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

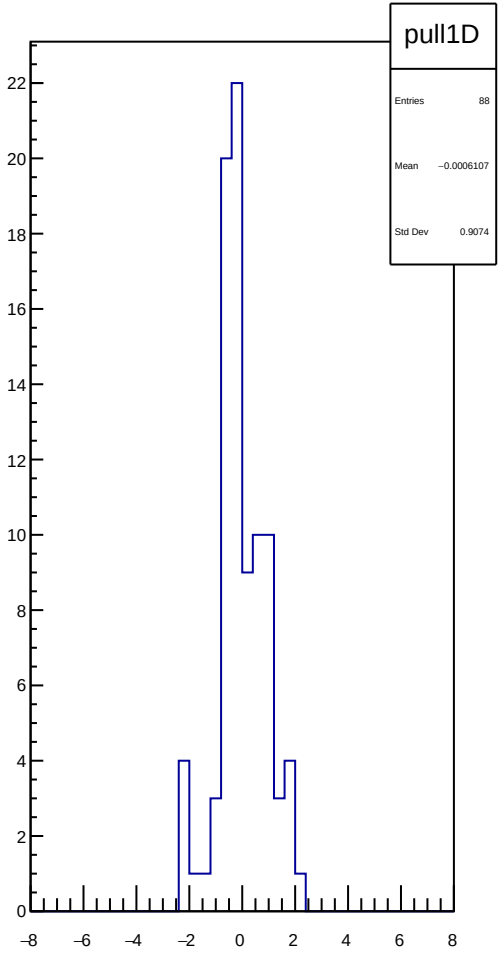

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.02e+06 / 87
p0 7.309e−11 ± 8.912e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

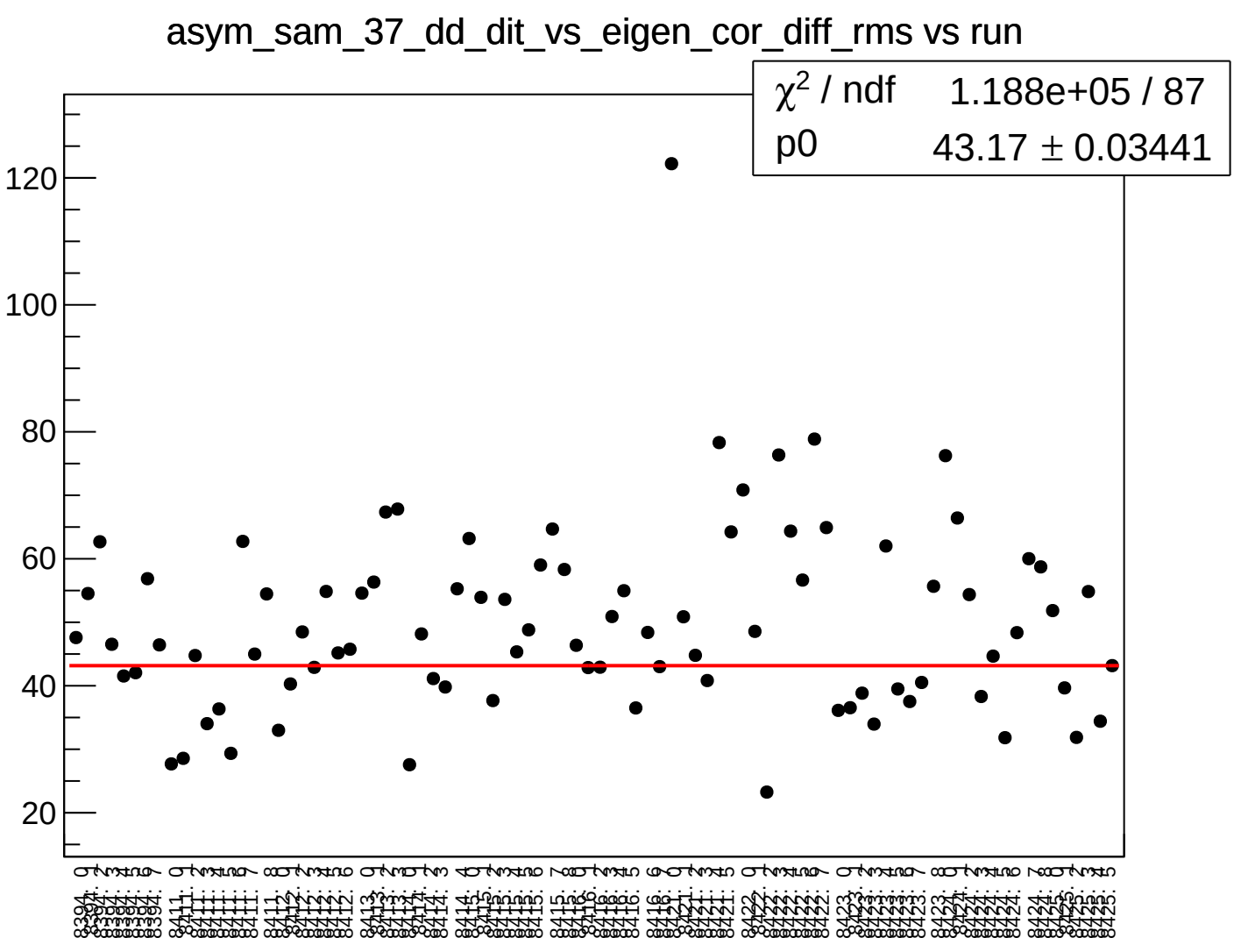

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 72.46 / 87
p0 0.01141 ± 0.04866
pull
Entries 88
Mean −2795
Std Dev 0

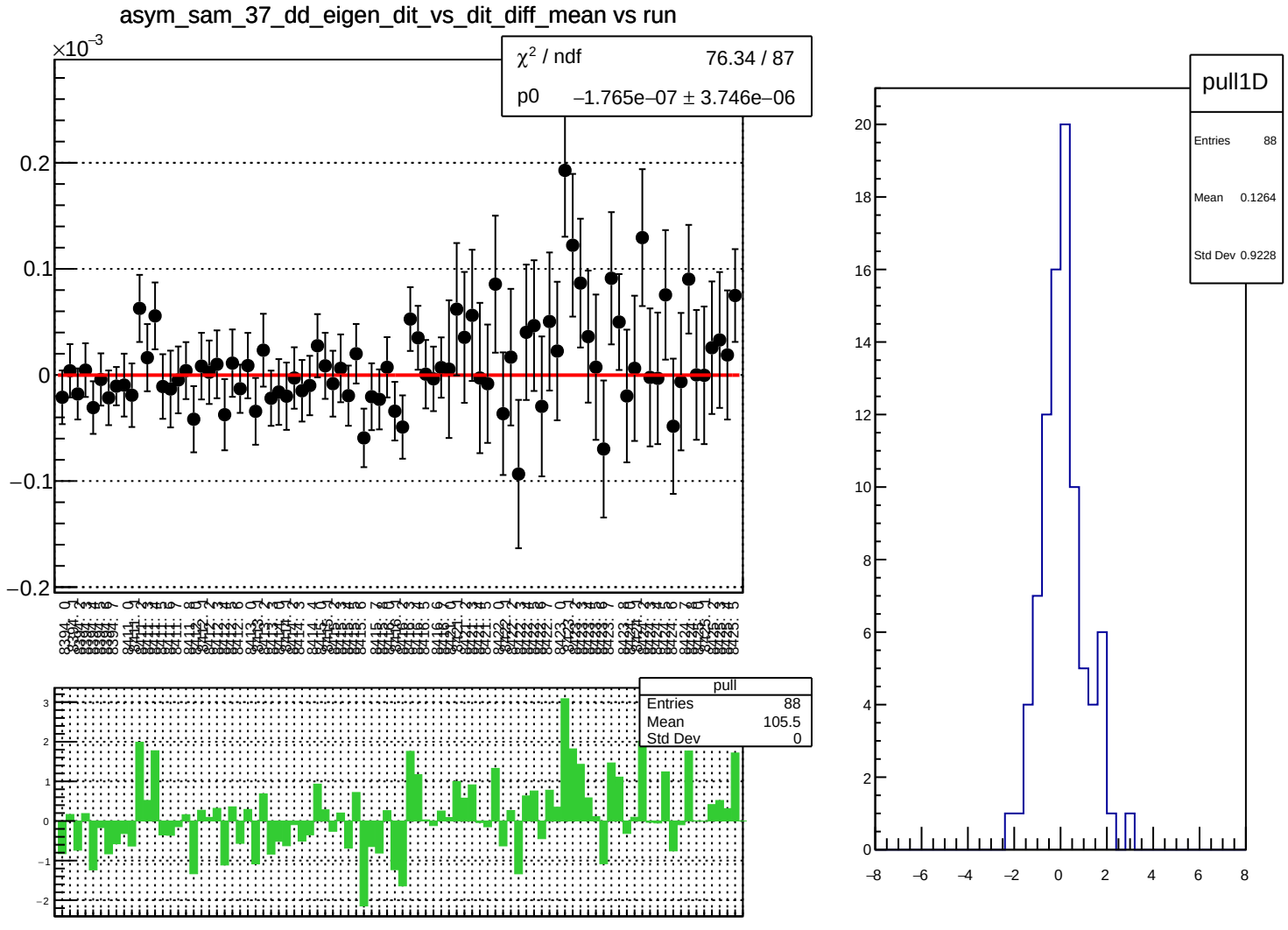

pull1D
Entries 88
Mean −0.0006107
Std Dev 0.9074

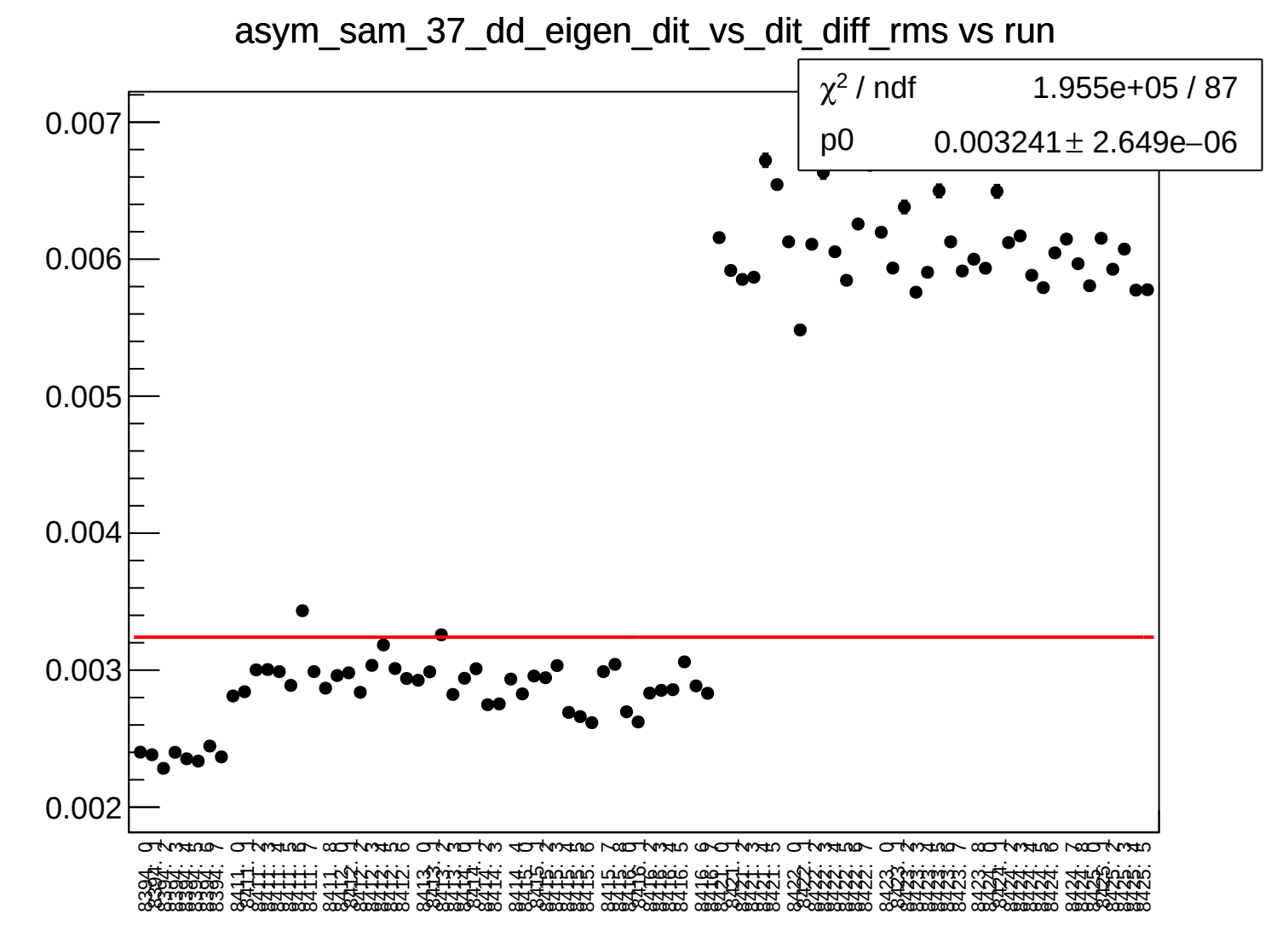

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.188e+05 / 87
p0 43.17 ± 0.03441
120
100
80
60
40
20

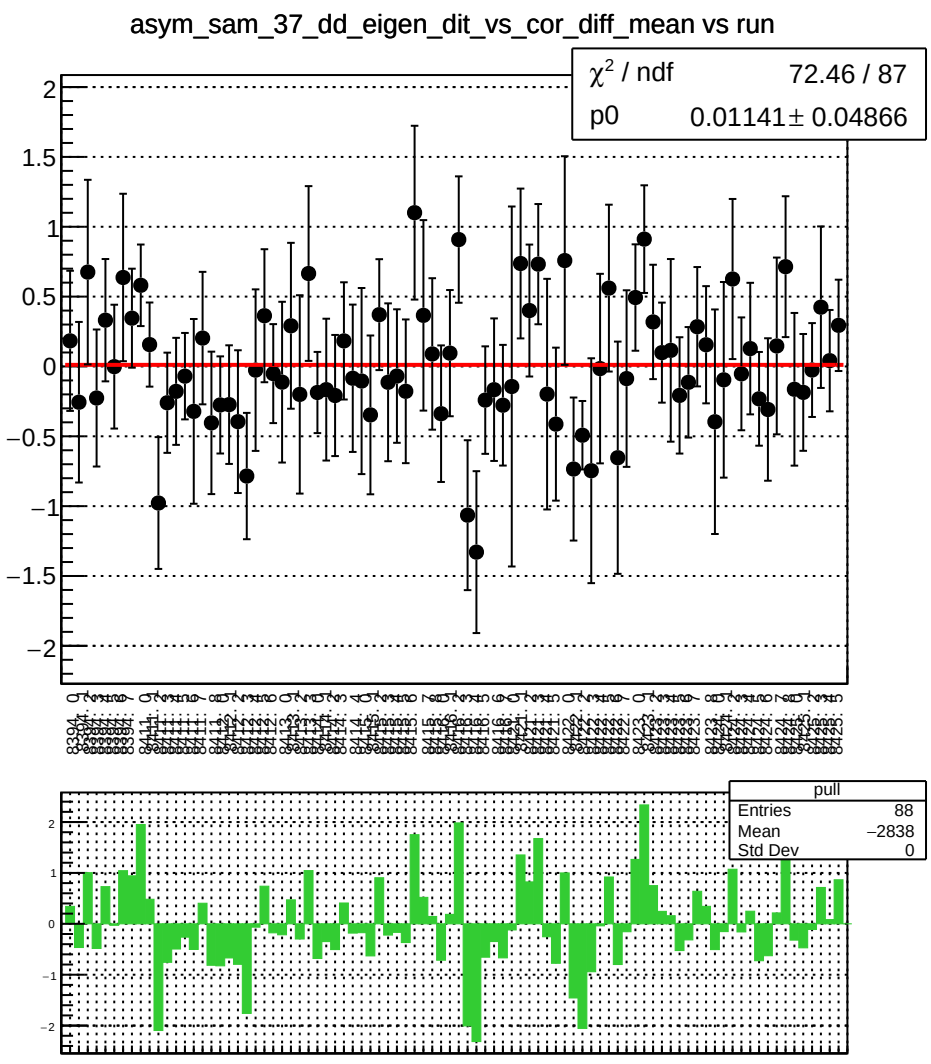

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.46 / 87
p0 0.01141 ± 0.04866
pull
Entries 88
Mean −2795
Std Dev 0

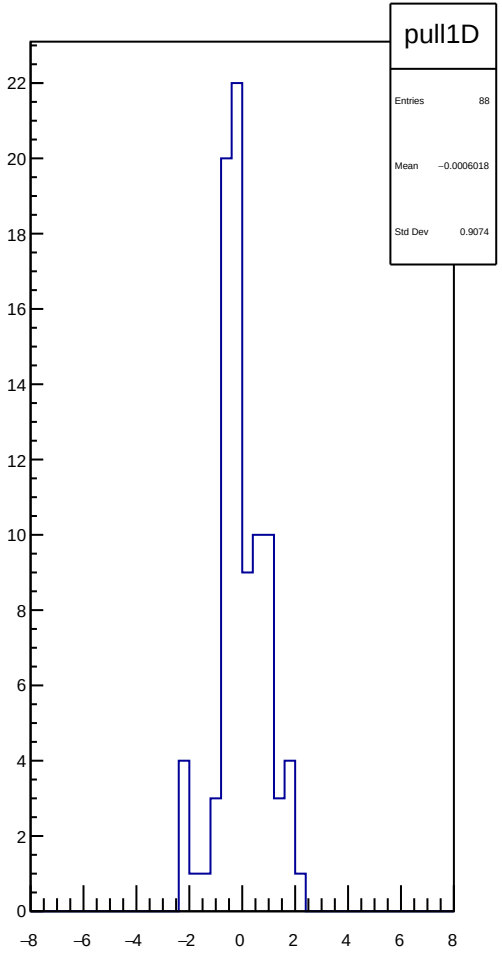

pull1D
Entries 88
Mean −0.0006107
Std Dev 0.9074

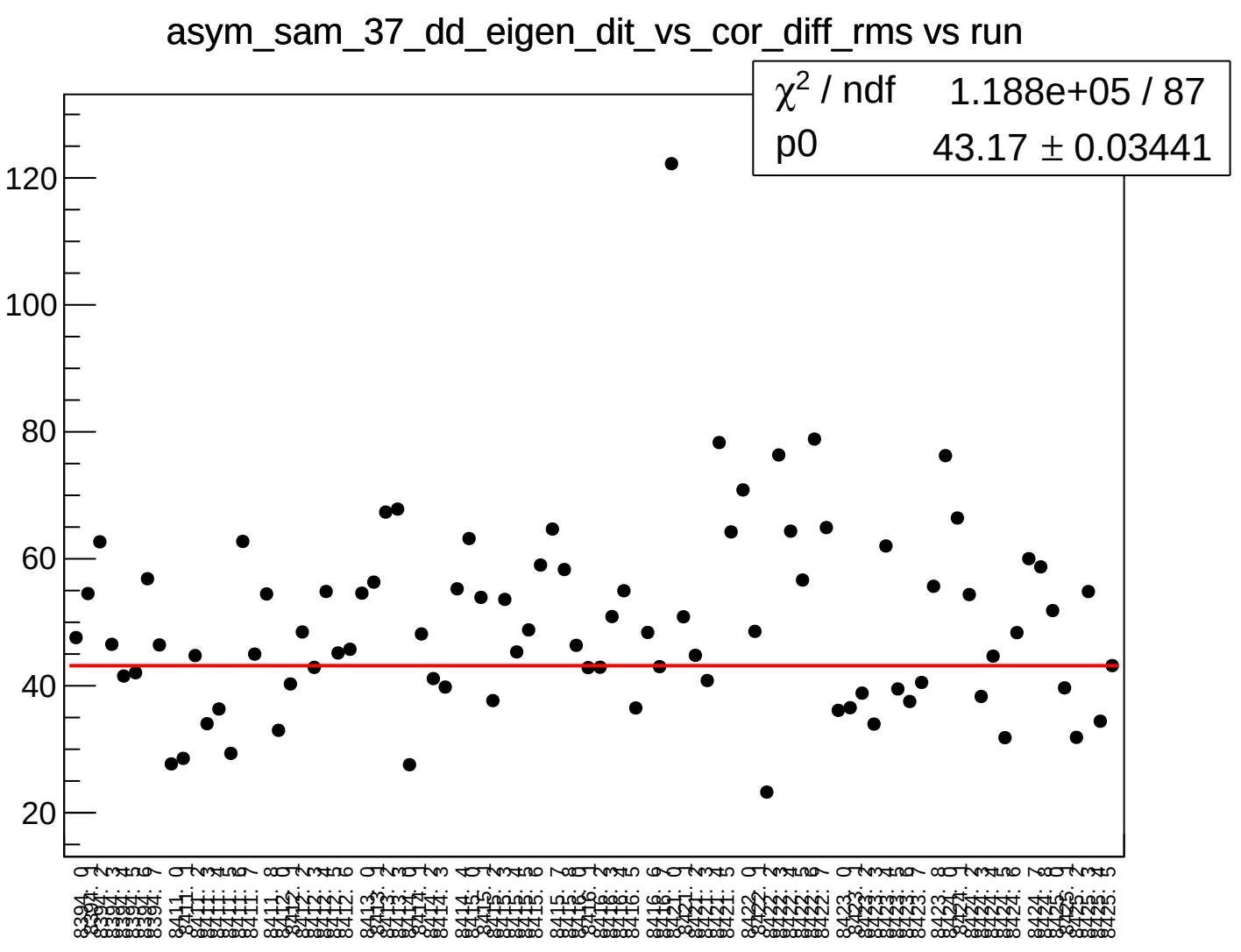

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.188e+05 / 87
p0 43.17 ± 0.03441
120
100
80
60
40
20

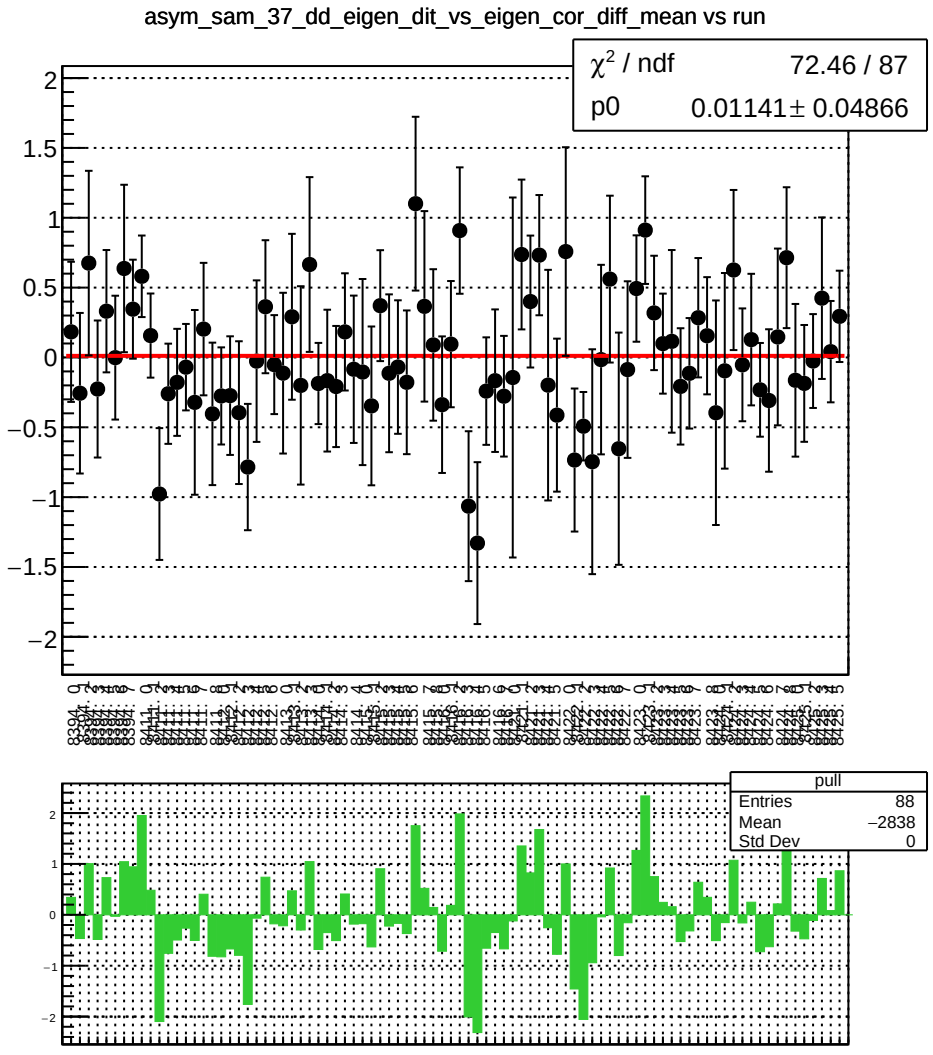

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.34 / 87
p0 −1.765e−07 ± 3.746e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 88
Mean 105.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.1264
Std Dev 0.9228
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

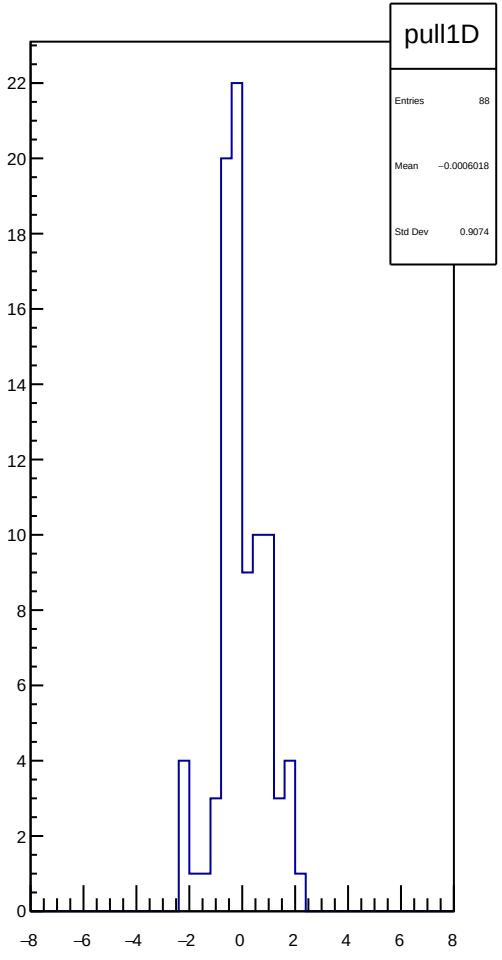

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.955e+05 / 87
p0 0.003241 ± 2.649e−06
0.007
0.006
0.005
0.004
0.003
0.002

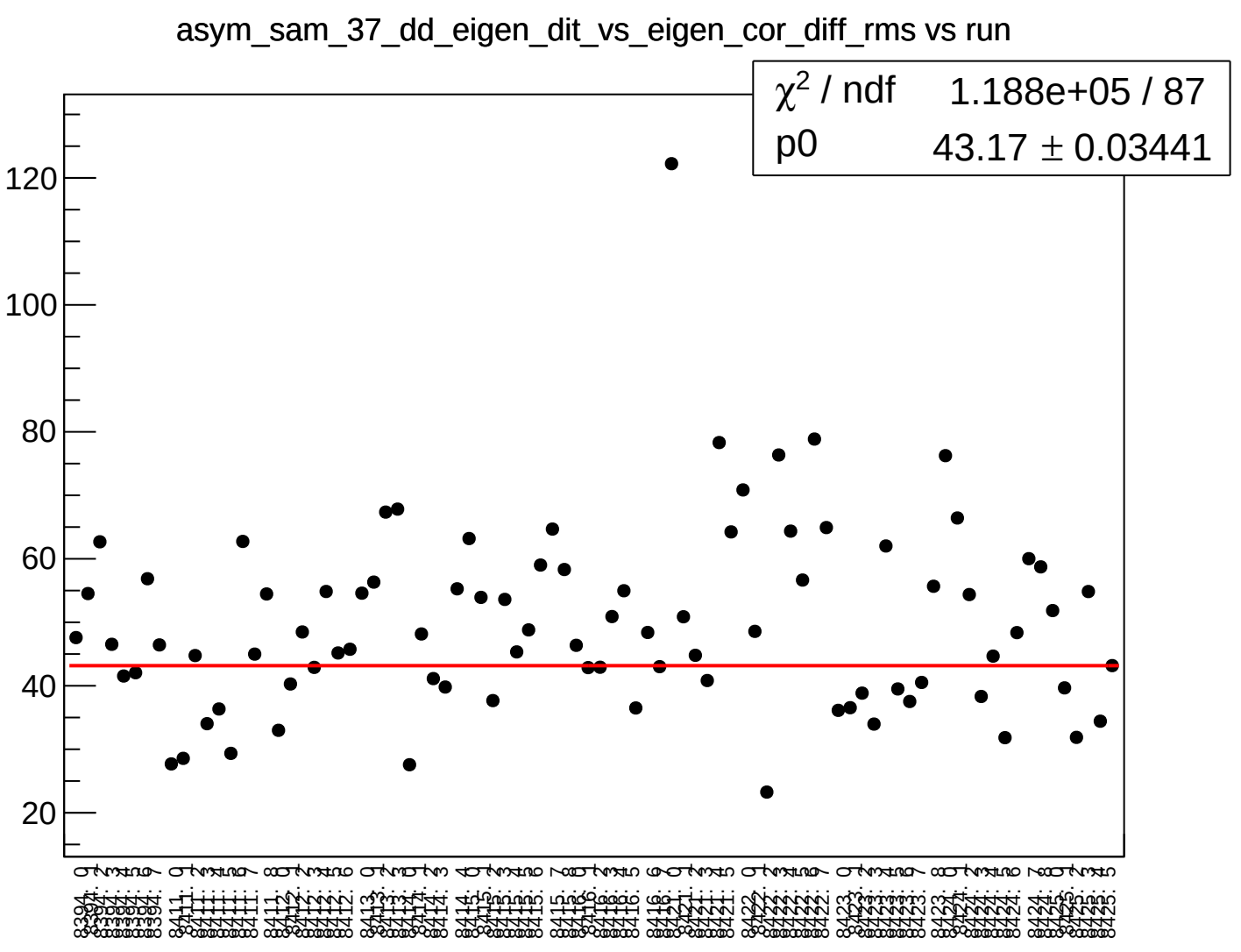

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.46 / 87
p0 0.01141 ± 0.04866
pull
Entries 88
Mean −2838
Std Dev 0

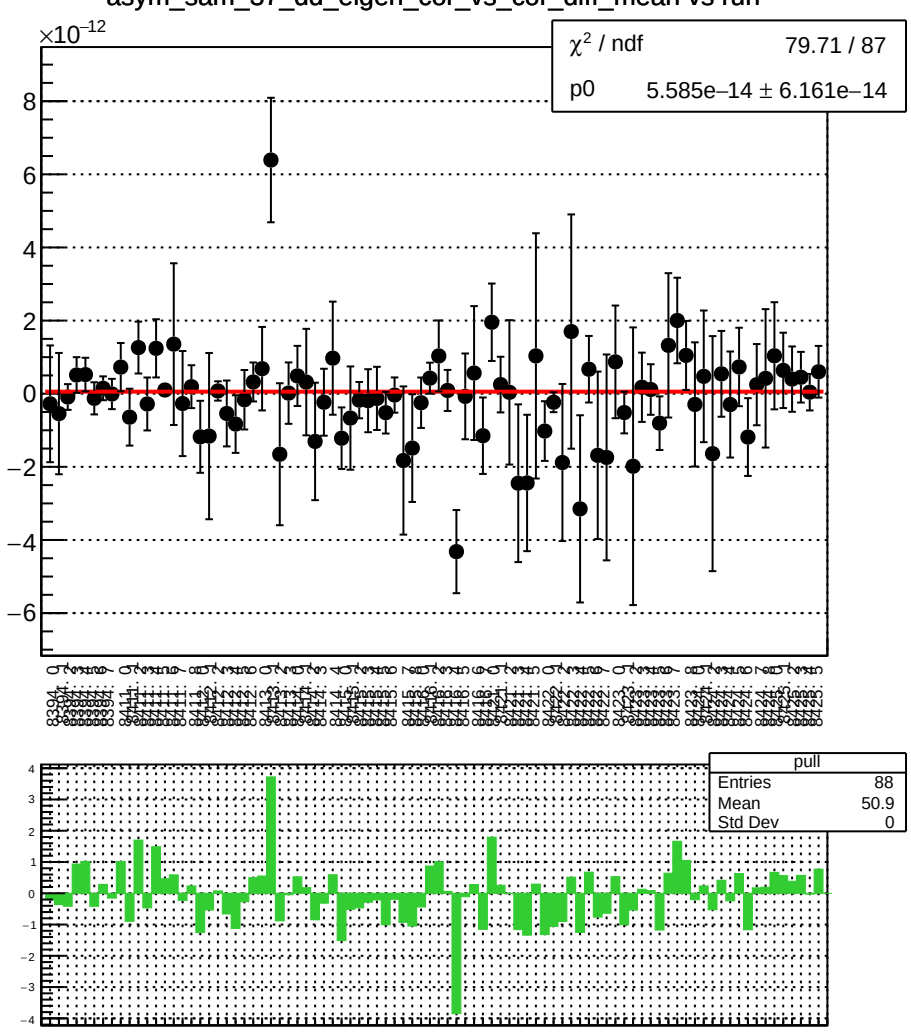

pull1D
Entries 88
Mean −0.0006018
Std Dev 0.9074

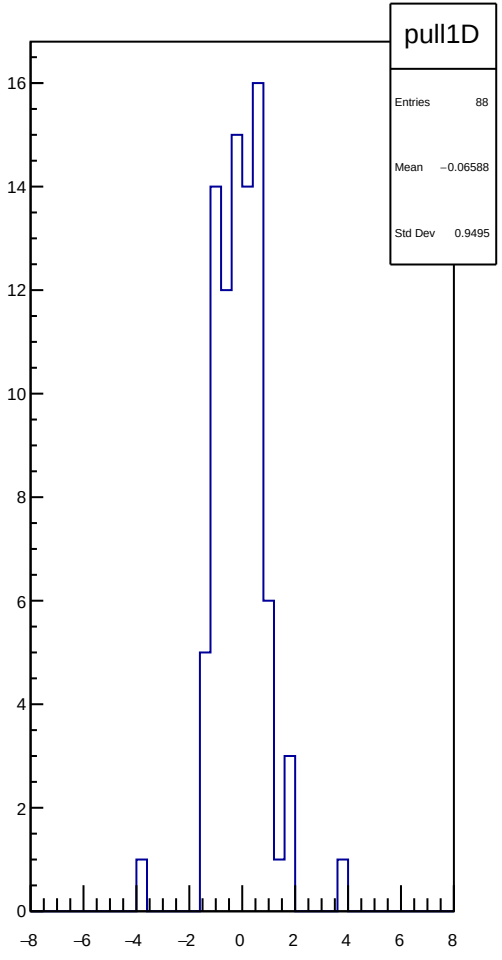

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.188e+05 / 87
p0 43.17 ± 0.03441
120
100
80
60
40
20

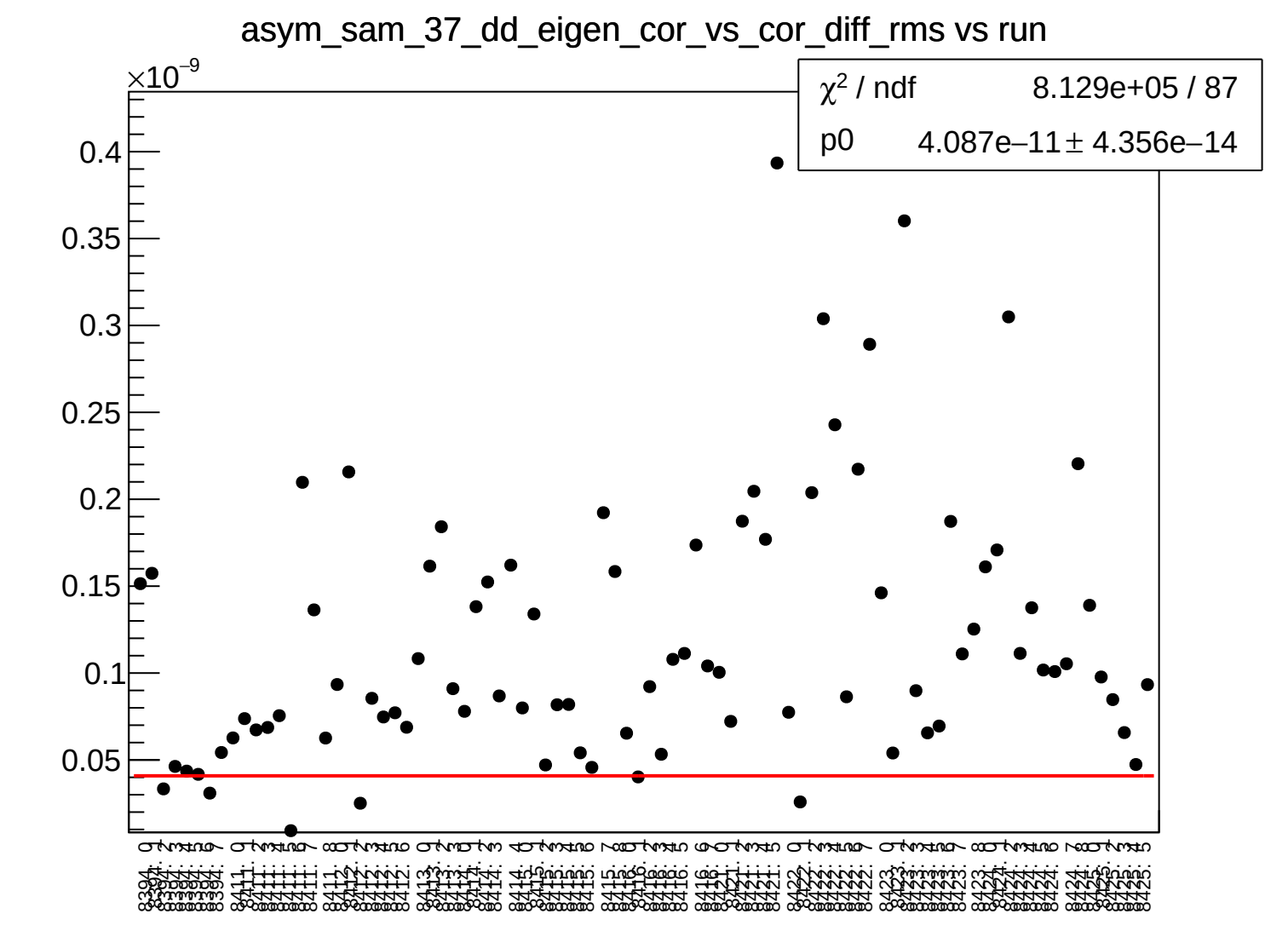

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.46 / 87
p0 0.01141 ± 0.04866
pull
Entries 88
Mean −2838
Std Dev 0

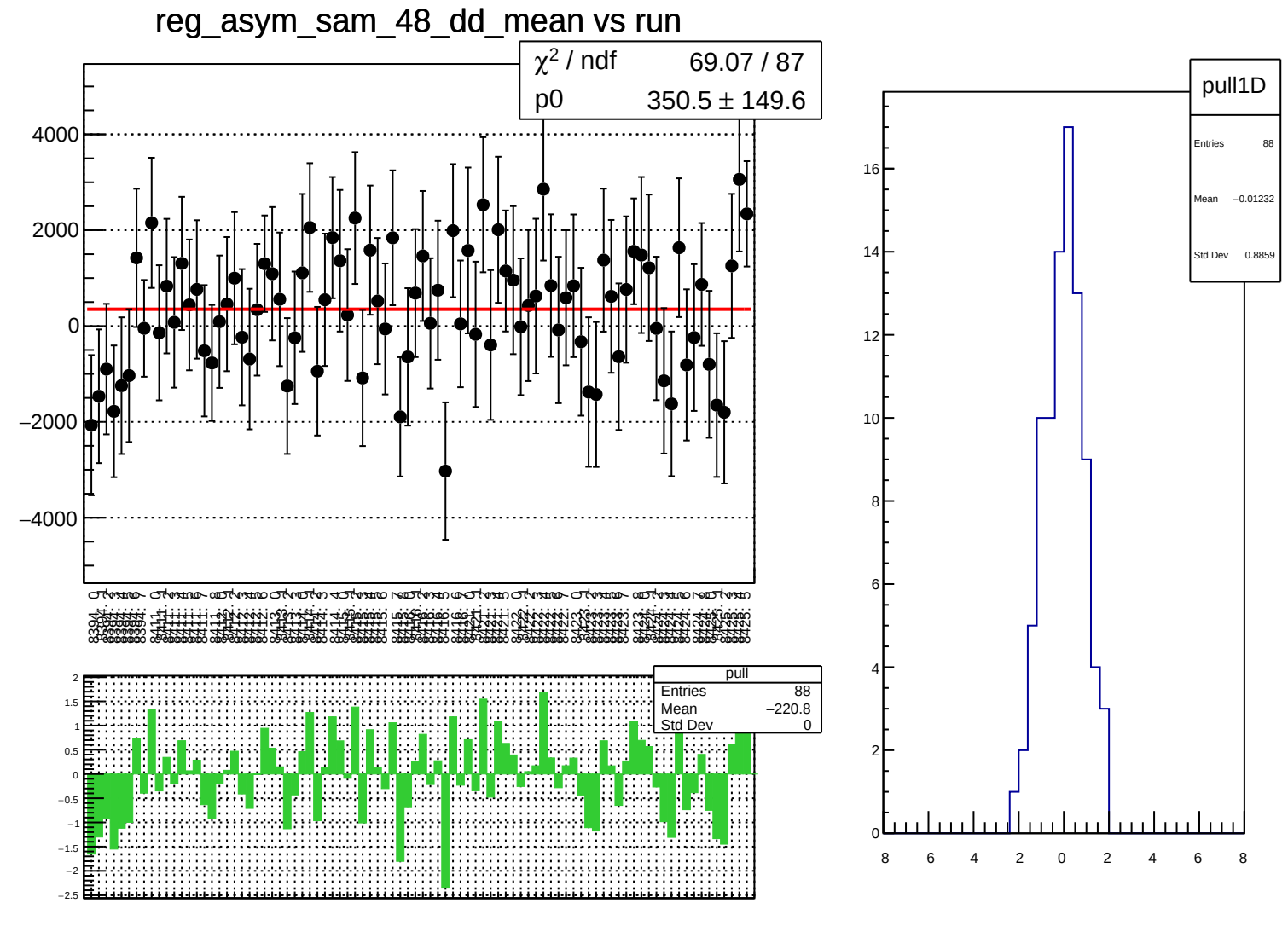

pull1D
Entries 88
Mean −0.0006018
Std Dev 0.9074

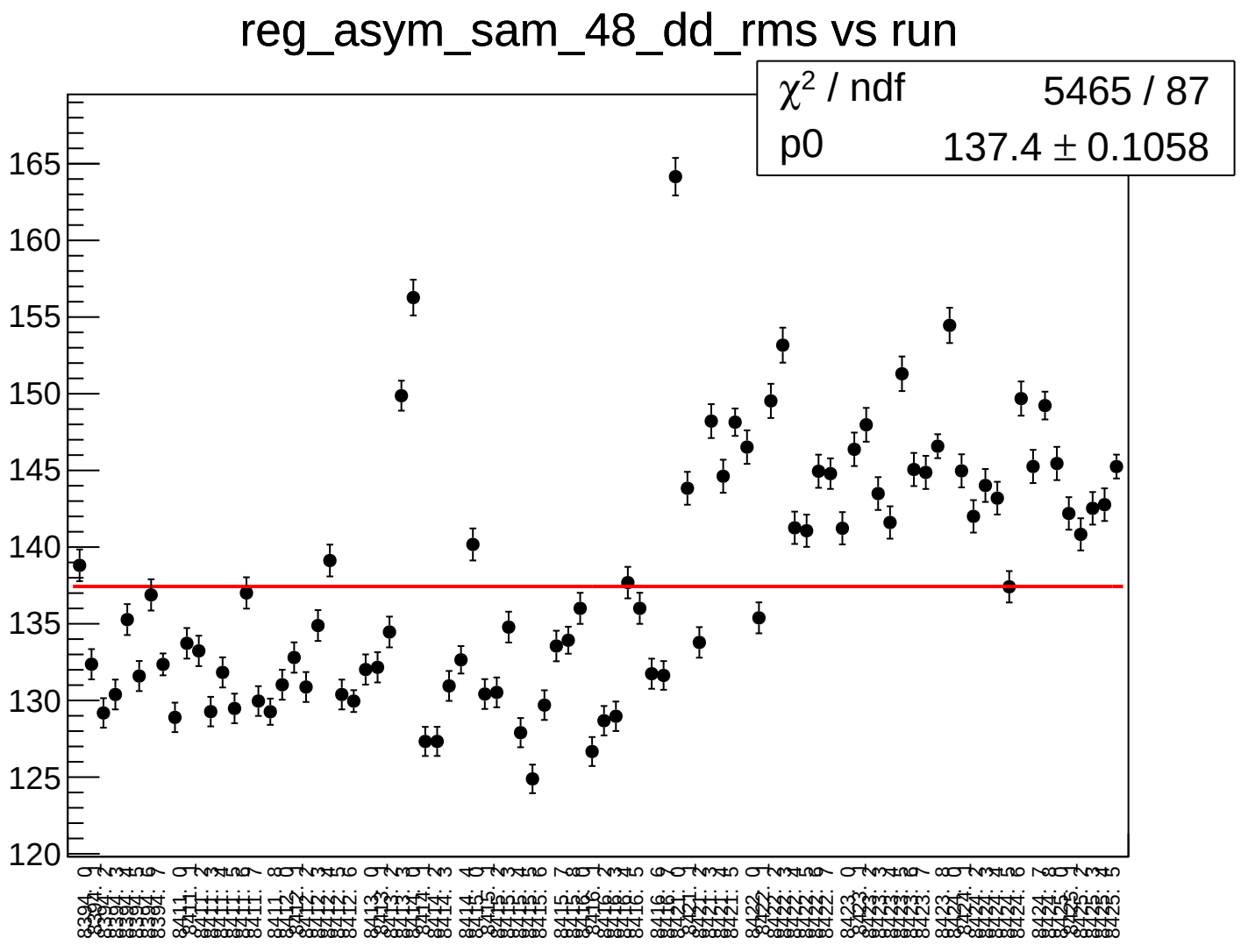

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.188e+05 / 87
p0 43.17 ± 0.03441
120
100
80
60
40
20

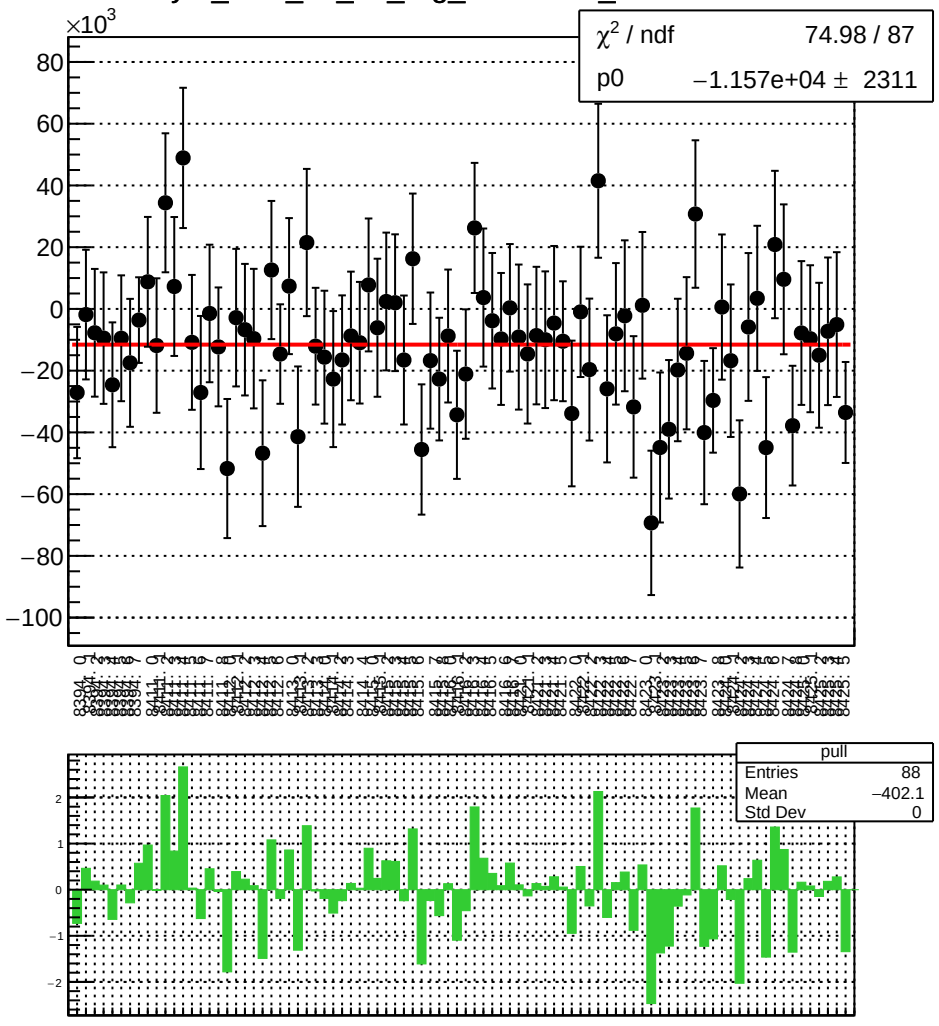

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.71 / 87
p0 5.585e−14 ± 6.161e−14
pull
Entries 88
Mean 50.9
Std Dev 0

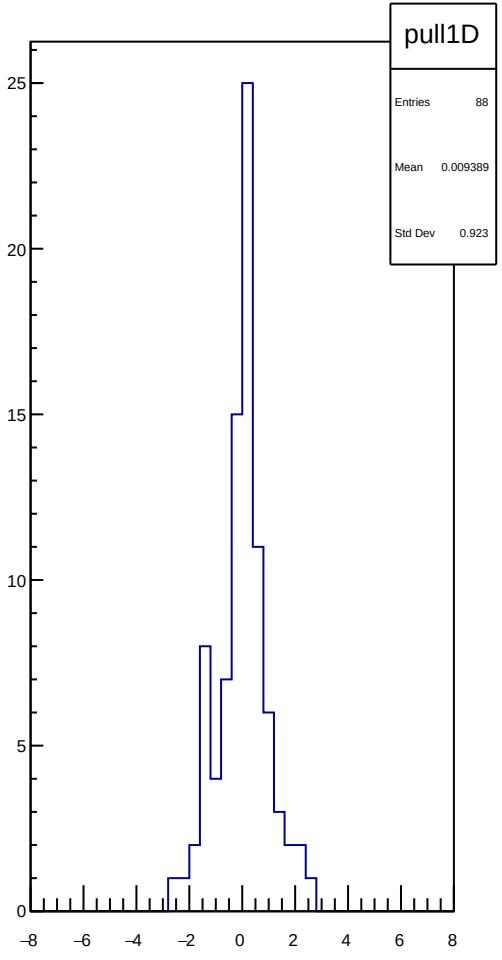

pull1D
Entries 88
Mean −0.06588
Std Dev 0.9495

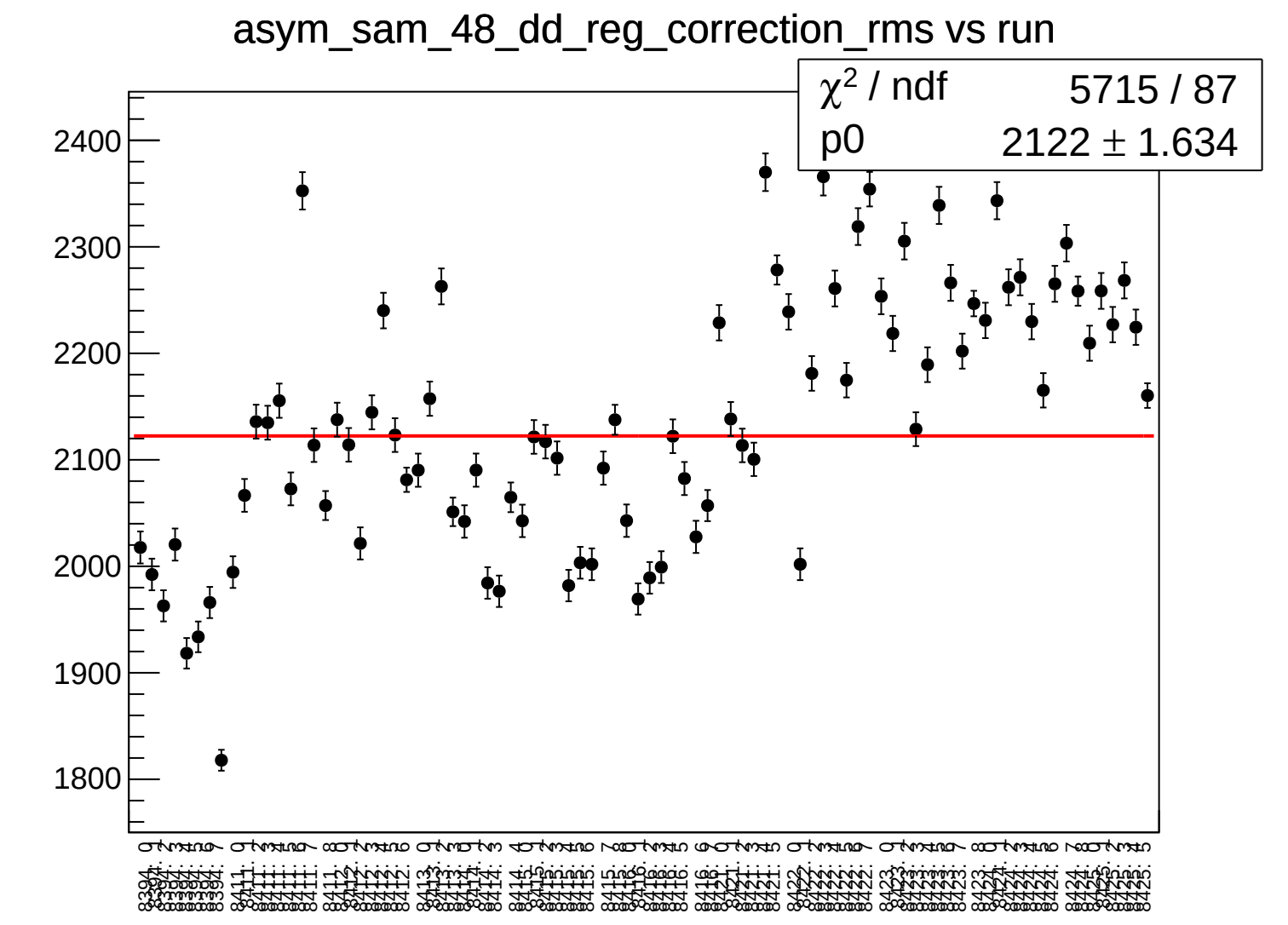

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.129e+05 / 87
p0 4.087e−11 ± 4.356e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

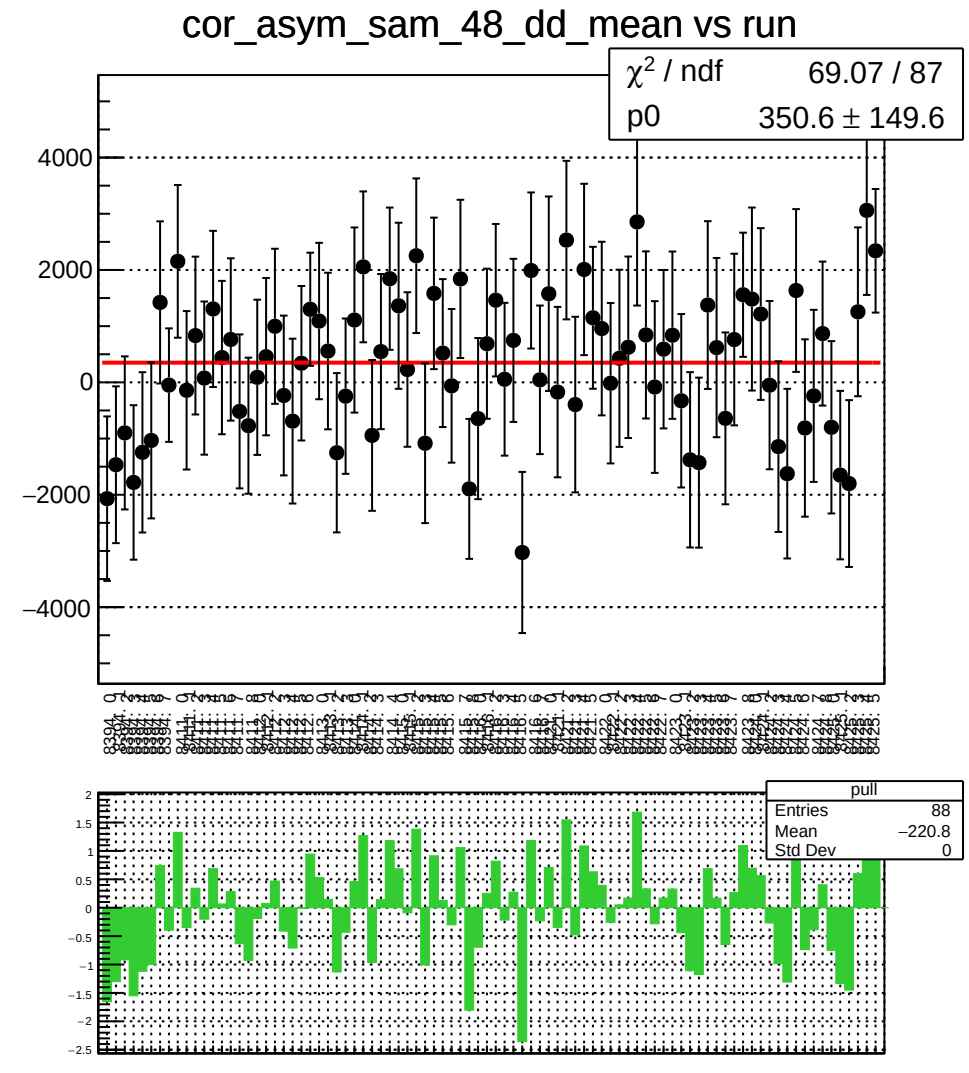

reg_asym_sam_48_dd_mean vs run
χ² / ndf 69.07 / 87
p0 350.5 ± 149.6
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −220.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 88
Mean −0.01232
Std Dev 0.8859
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

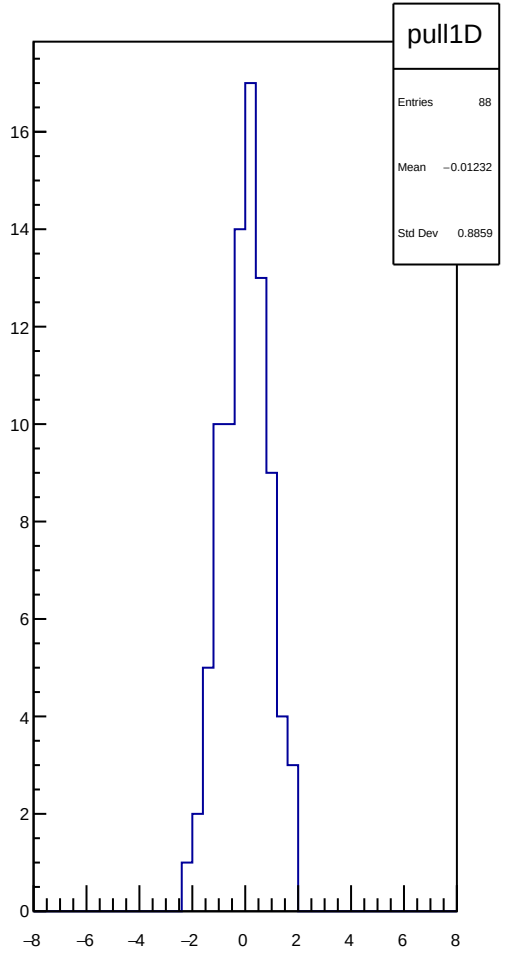

reg_asym_sam_48_dd_rms vs run
χ² / ndf 5465 / 87
p0 137.4 ± 0.1058
165
160
155
150
145
140
135
130
125
120

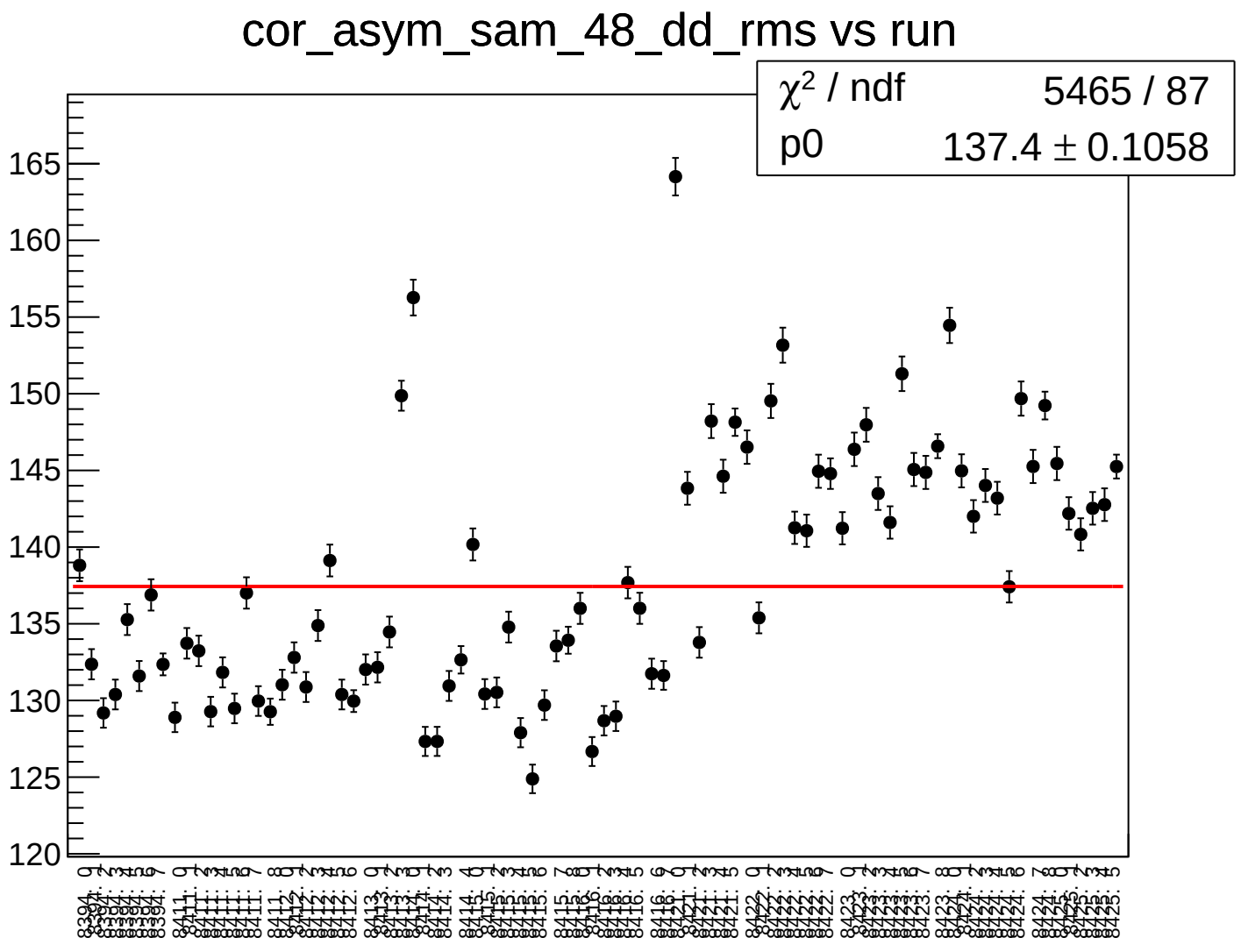

asym_sam_48_dd_reg_correction_mean vs run
×10^3
χ² / ndf 74.98 / 87
p0 −1.157e+04 ± 2311
pull
Entries 88
Mean −402.1
Std Dev 0

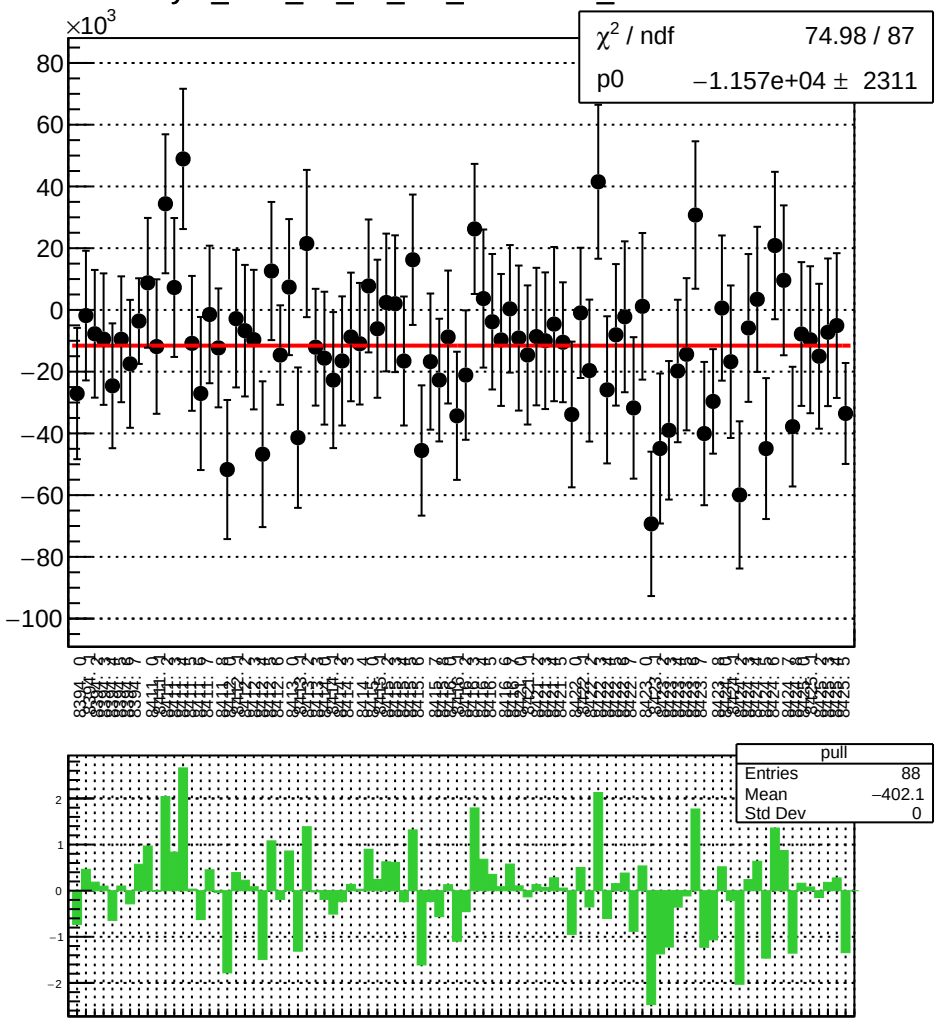

pull1D
Entries 88
Mean 0.009389
Std Dev 0.923

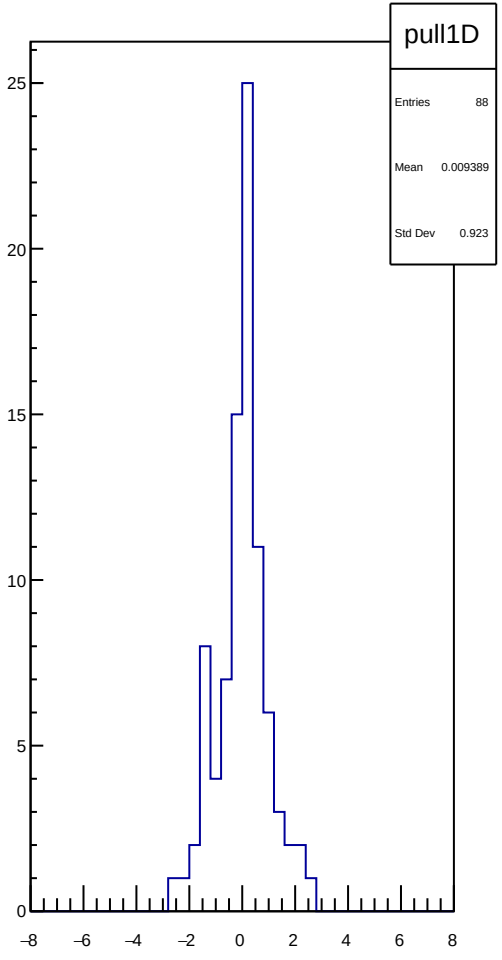

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 5715 / 87
p0 2122 ± 1.634
2400
2300
2200
2100
2000
1900
1800

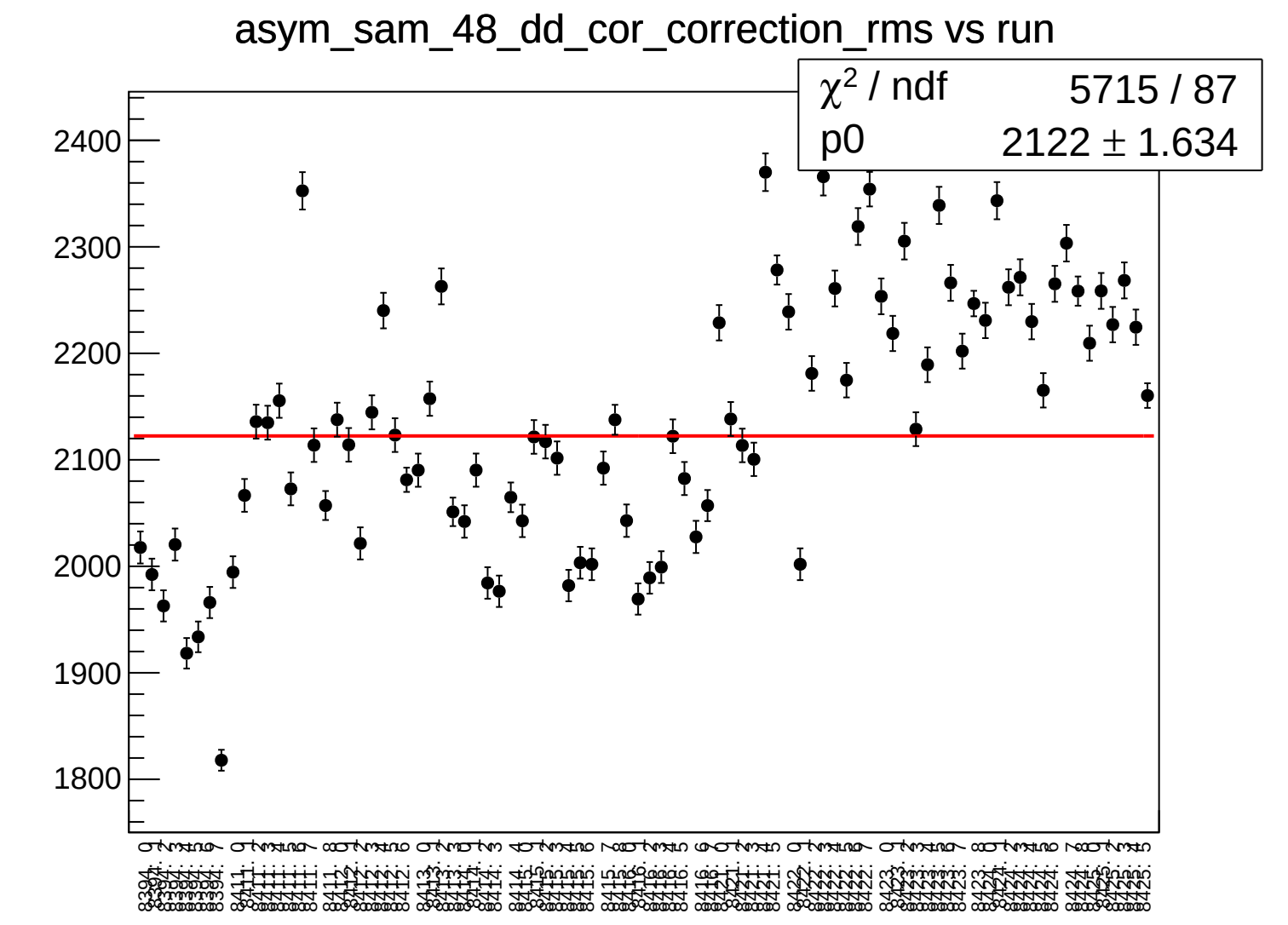

cor_asym_sam_48_dd_mean vs run
χ² / ndf 69.07 / 87
p0 350.6 ± 149.6
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −220.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

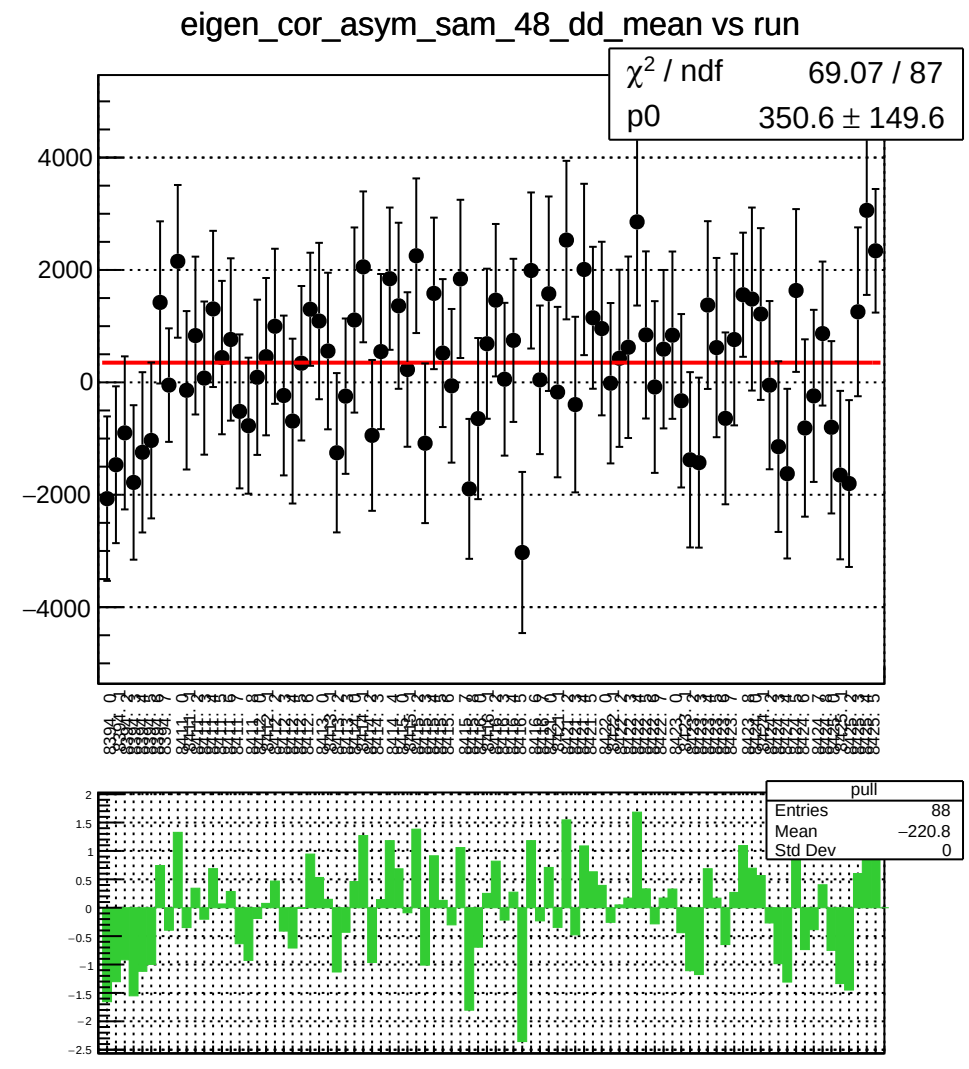

pull1D
Entries 88
Mean −0.01232
Std Dev 0.8859
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

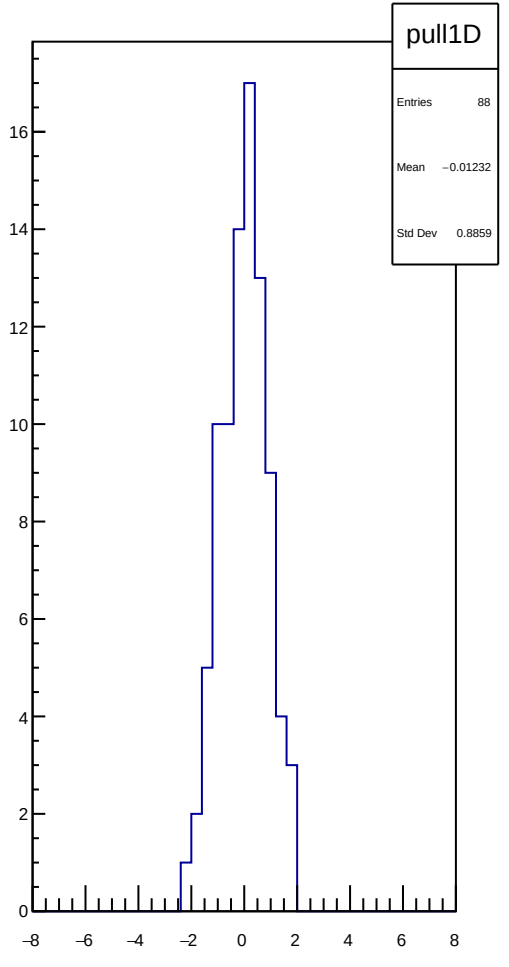

cor_asym_sam_48_dd_rms vs run
χ² / ndf 5465 / 87
p0 137.4 ± 0.1058
165
160
155
150
145
140
135
130
125
120

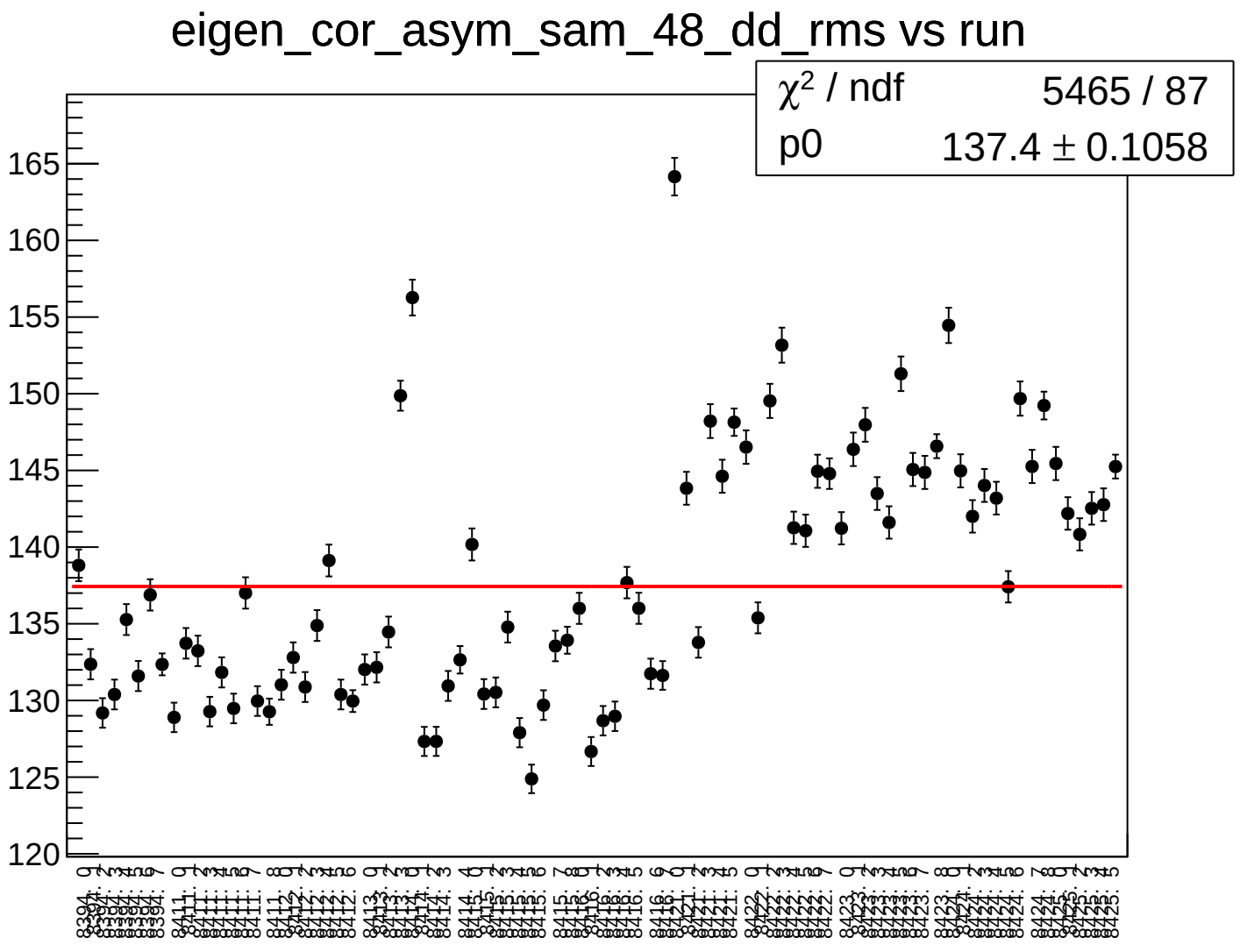

asym_sam_48_dd_cor_correction_mean vs run
×10^3
χ² / ndf 74.98 / 87
p0 −1.157e+04 ± 2311
pull
Entries 88
Mean −402.1
Std Dev 0

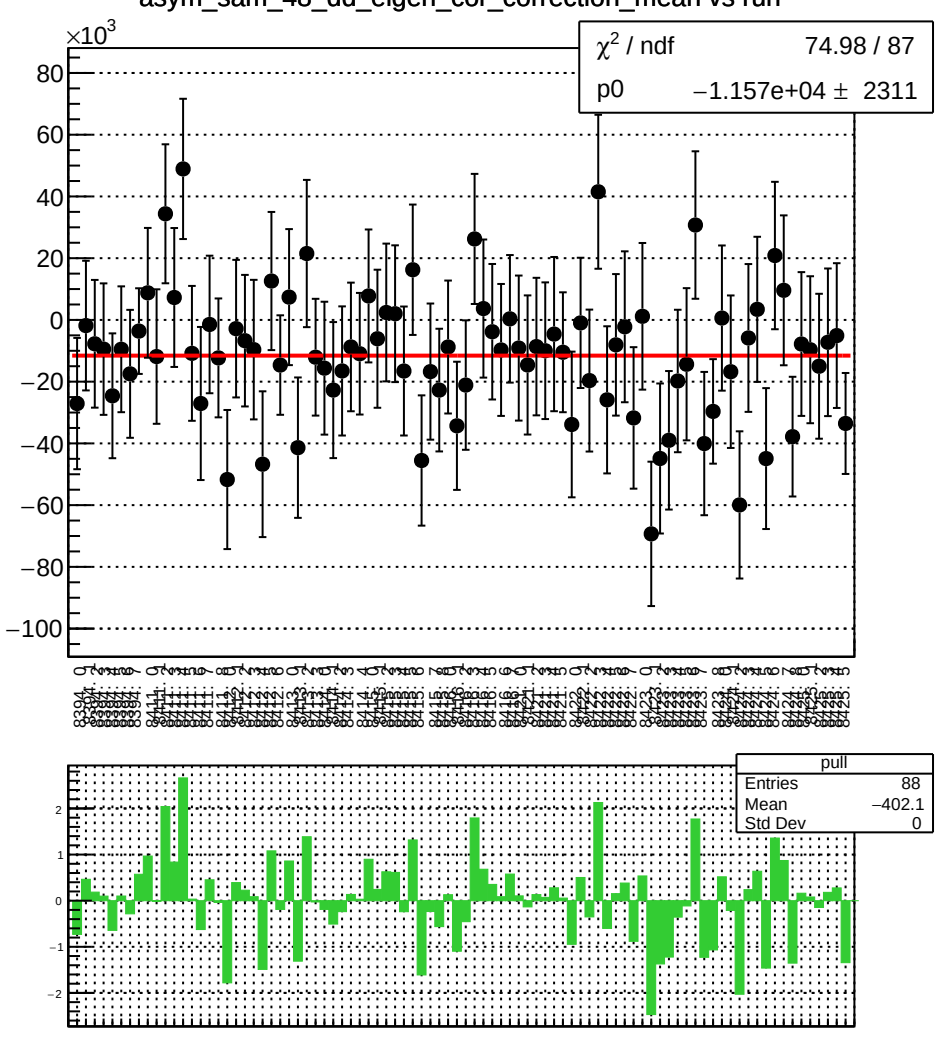

pull1D
Entries 88
Mean 0.009389
Std Dev 0.923

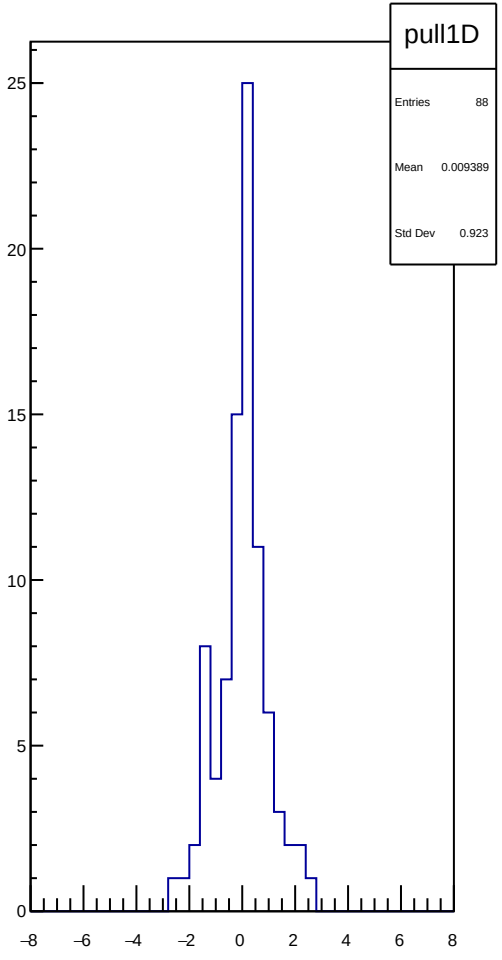

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 5715 / 87
p0 2122 ± 1.634
2400
2300
2200
2100
2000
1900
1800

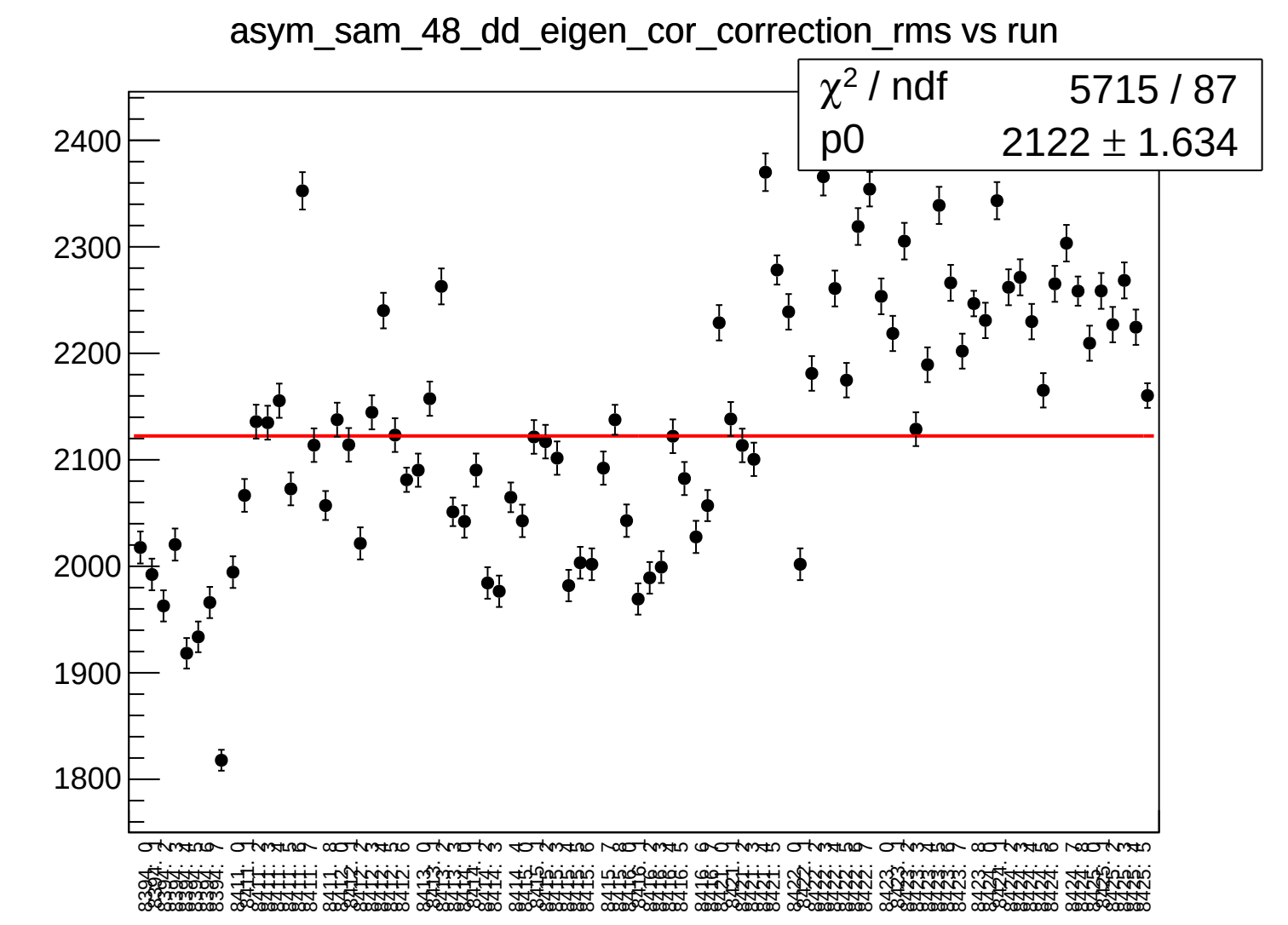

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 69.07 / 87
p0 350.6 ± 149.6
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −220.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

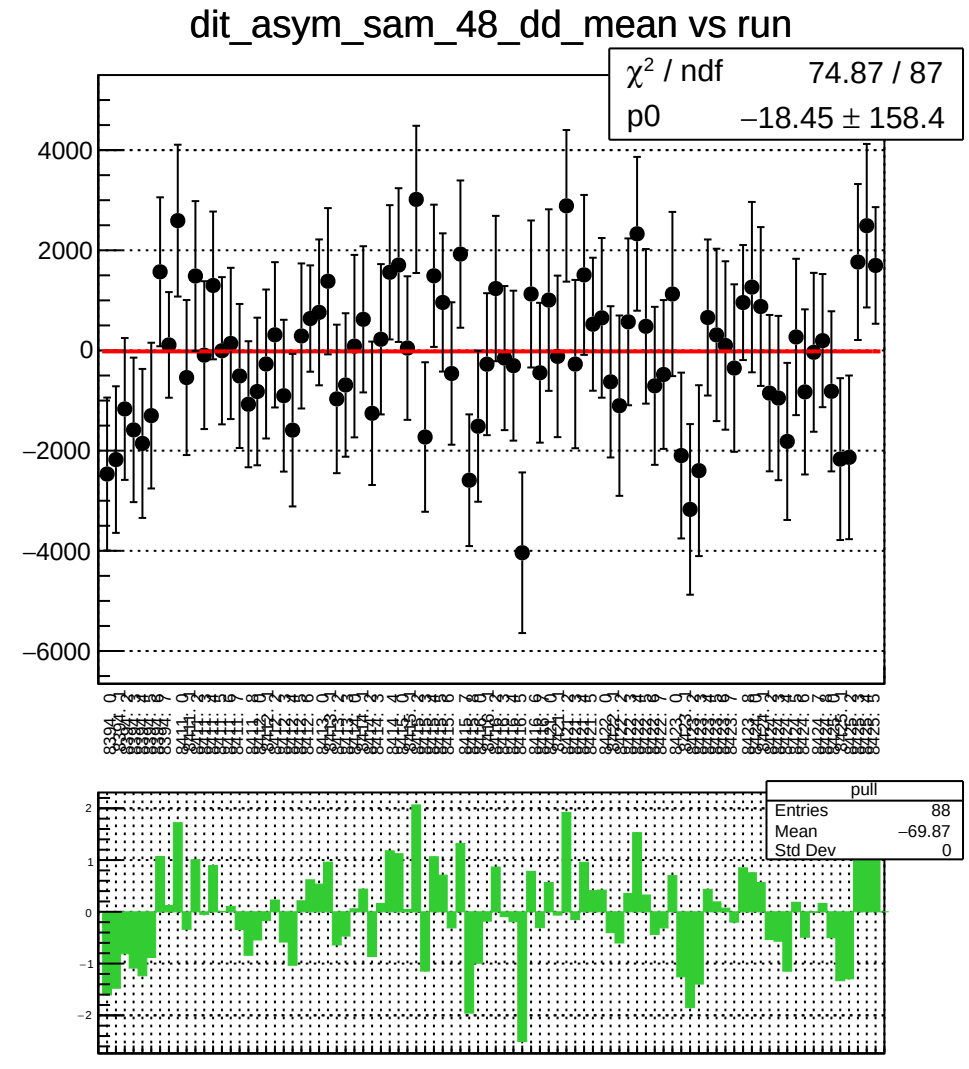

pull1D
Entries 88
Mean −0.01232
Std Dev 0.8859
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

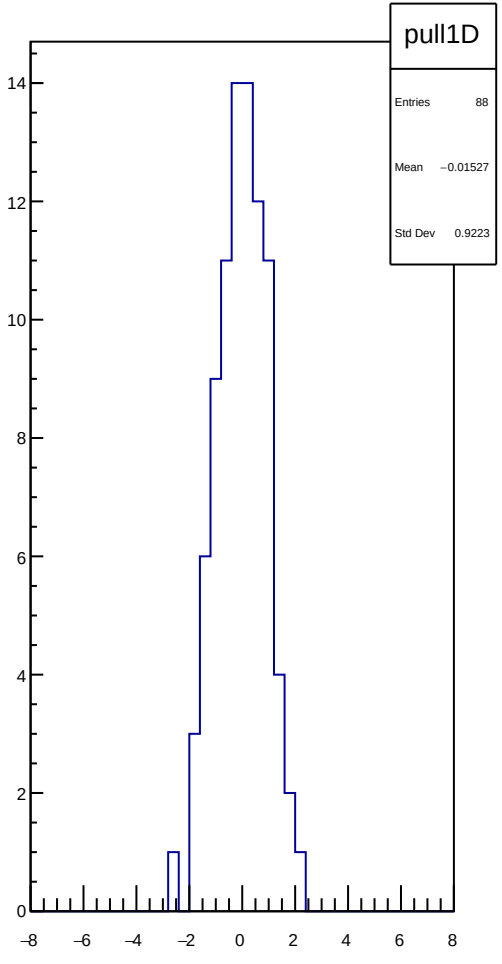

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 5465 / 87
p0 137.4 ± 0.1058
165
160
155
150
145
140
135
130
125
120

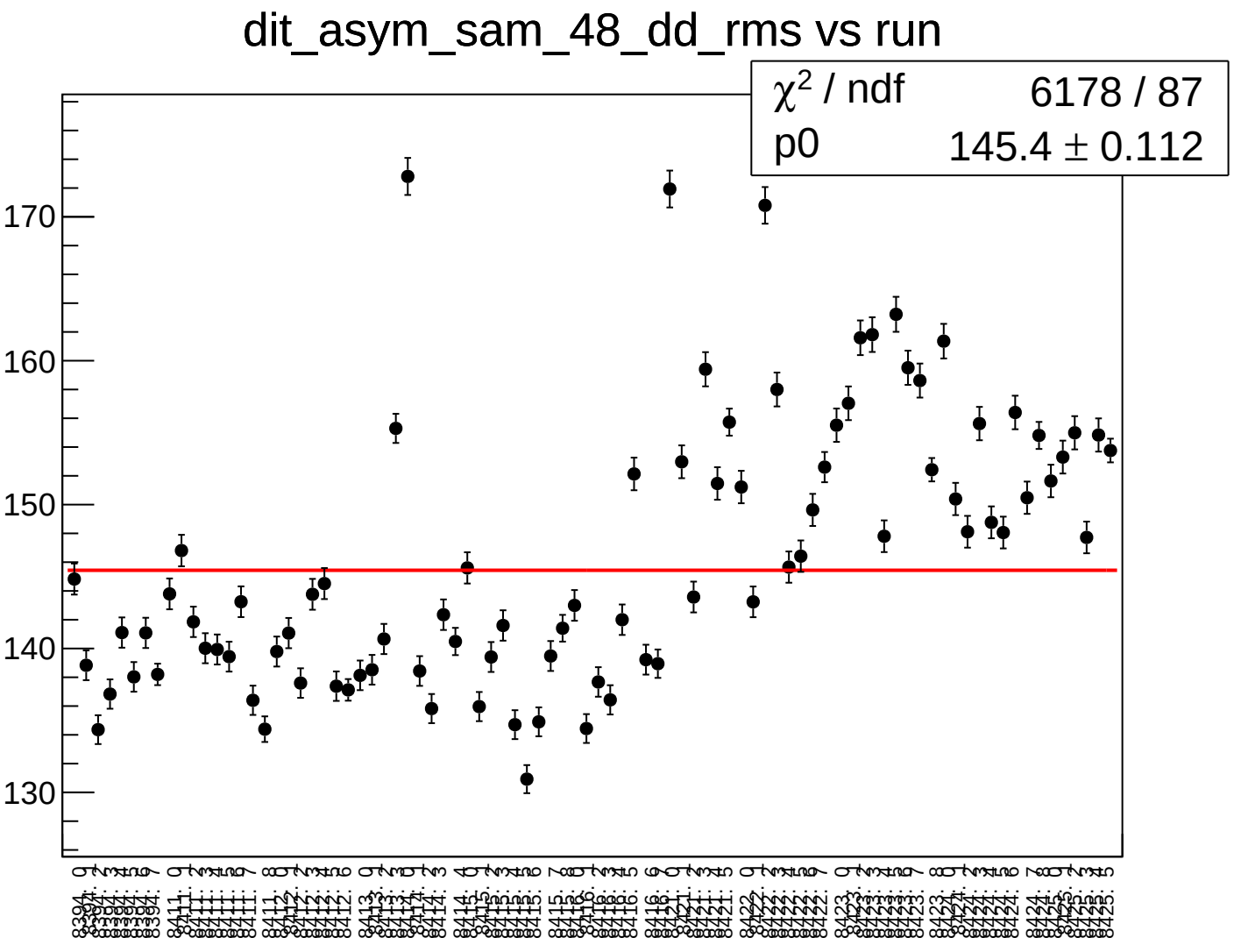

asym_sam_48_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 74.98 / 87
p0 −1.157e+04 ± 2311
pull
Entries 88
Mean −402.1
Std Dev 0

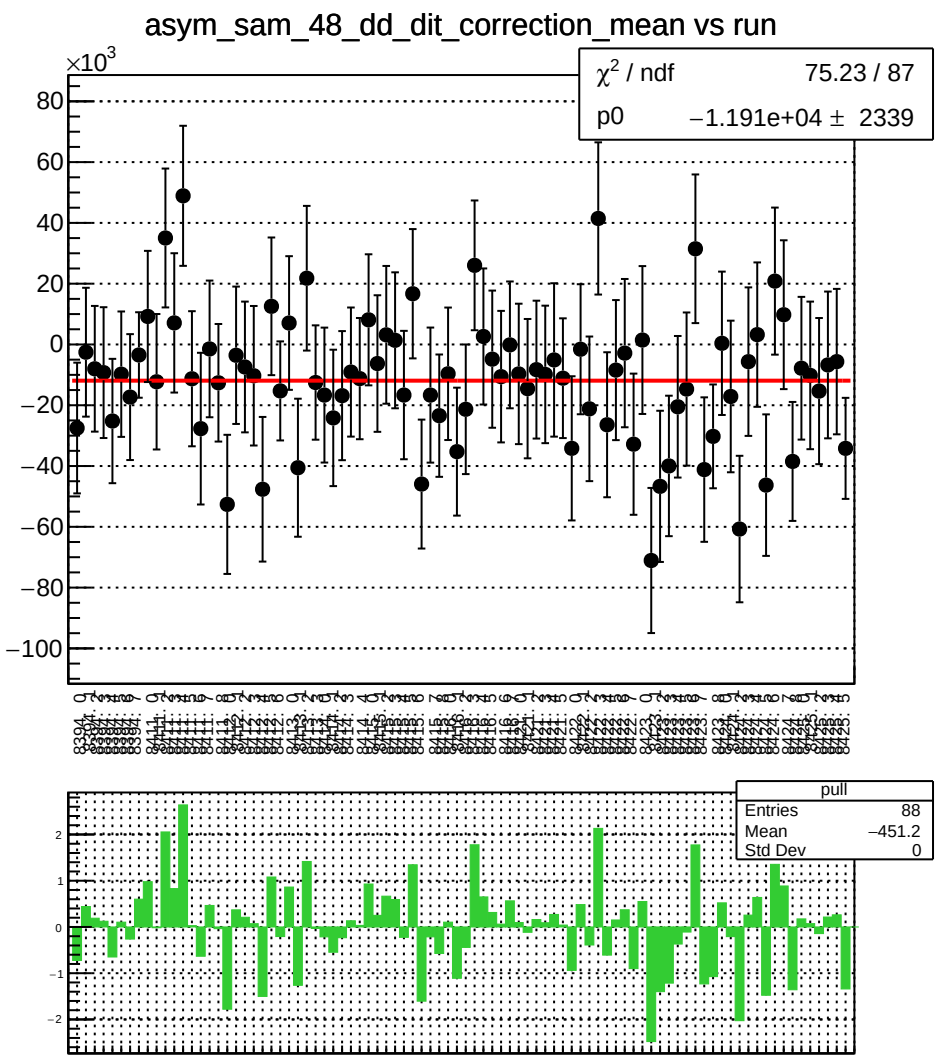

pull1D
Entries 88
Mean 0.009389
Std Dev 0.923

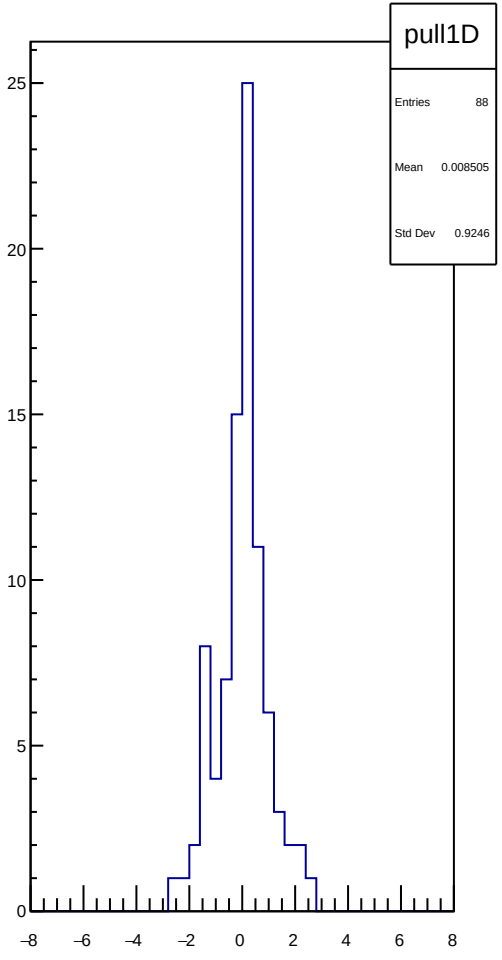

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 5715 / 87
p0 2122 ± 1.634
2400
2300
2200
2100
2000
1900
1800

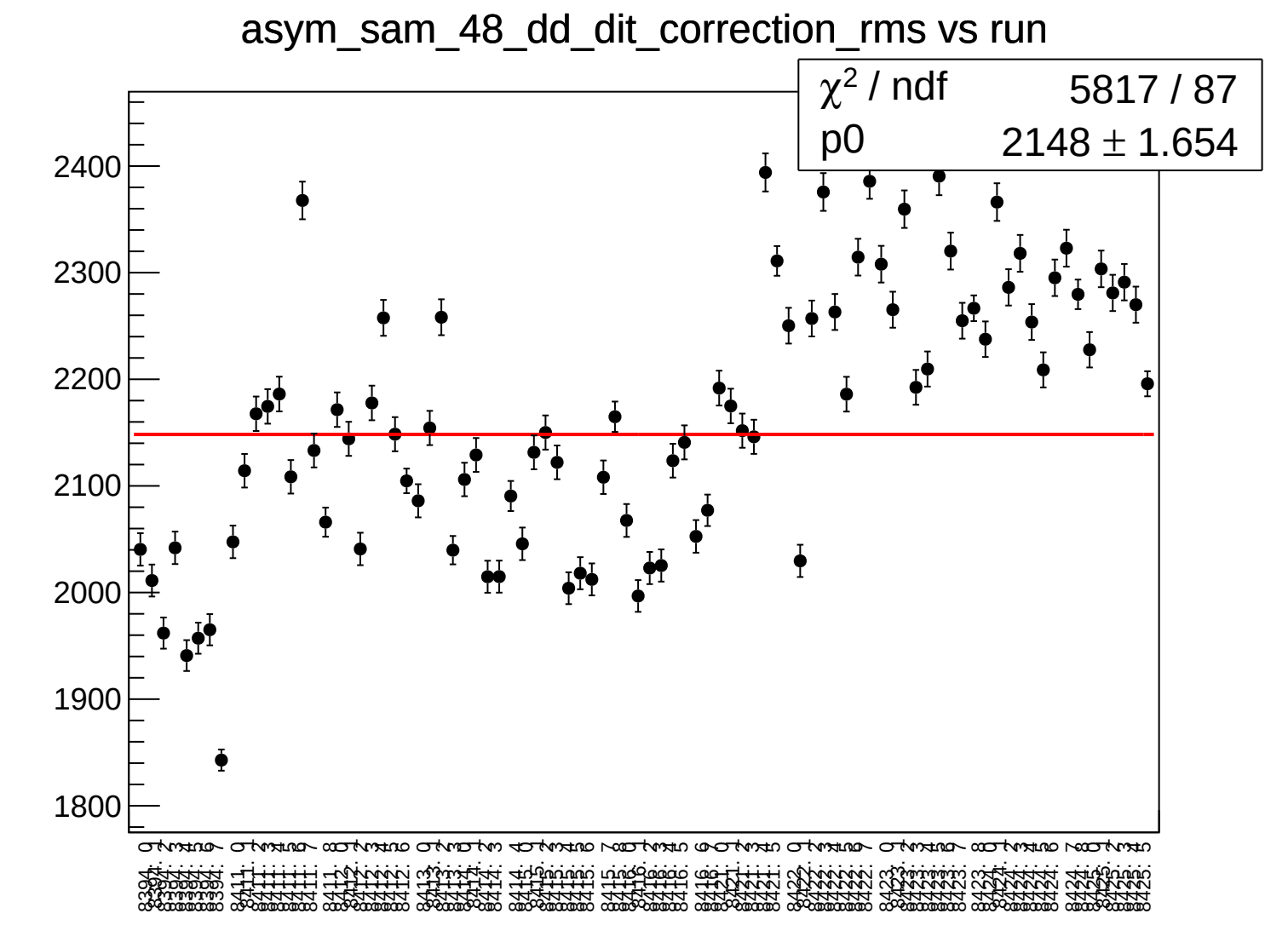

dit_asym_sam_48_dd_mean vs run
χ² / ndf 74.87 / 87
p0 −18.45 ± 158.4
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −69.87
Std Dev 0
2
1
0
−1
−2

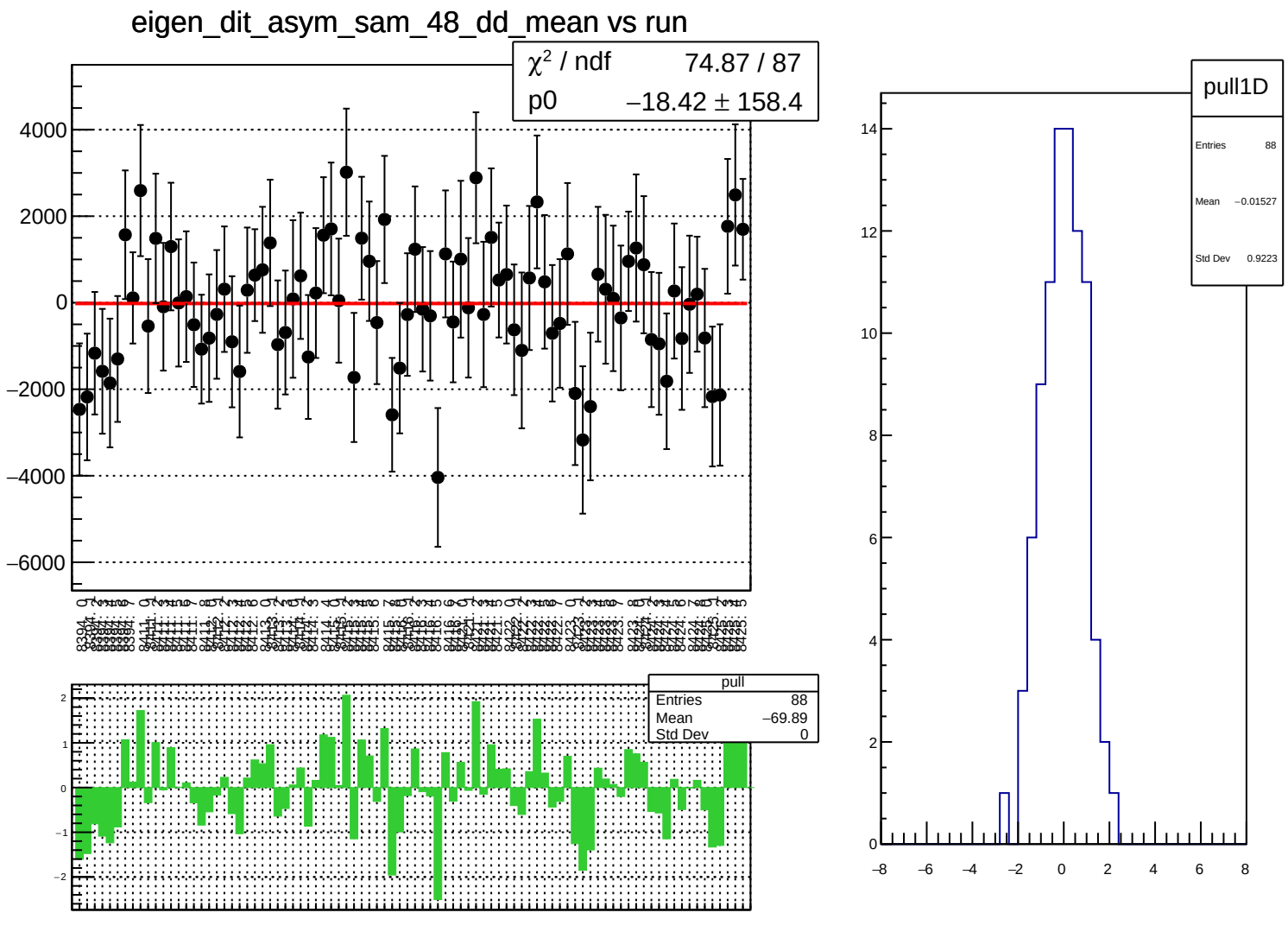

pull1D
Entries 88
Mean −0.01527
Std Dev 0.9223
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

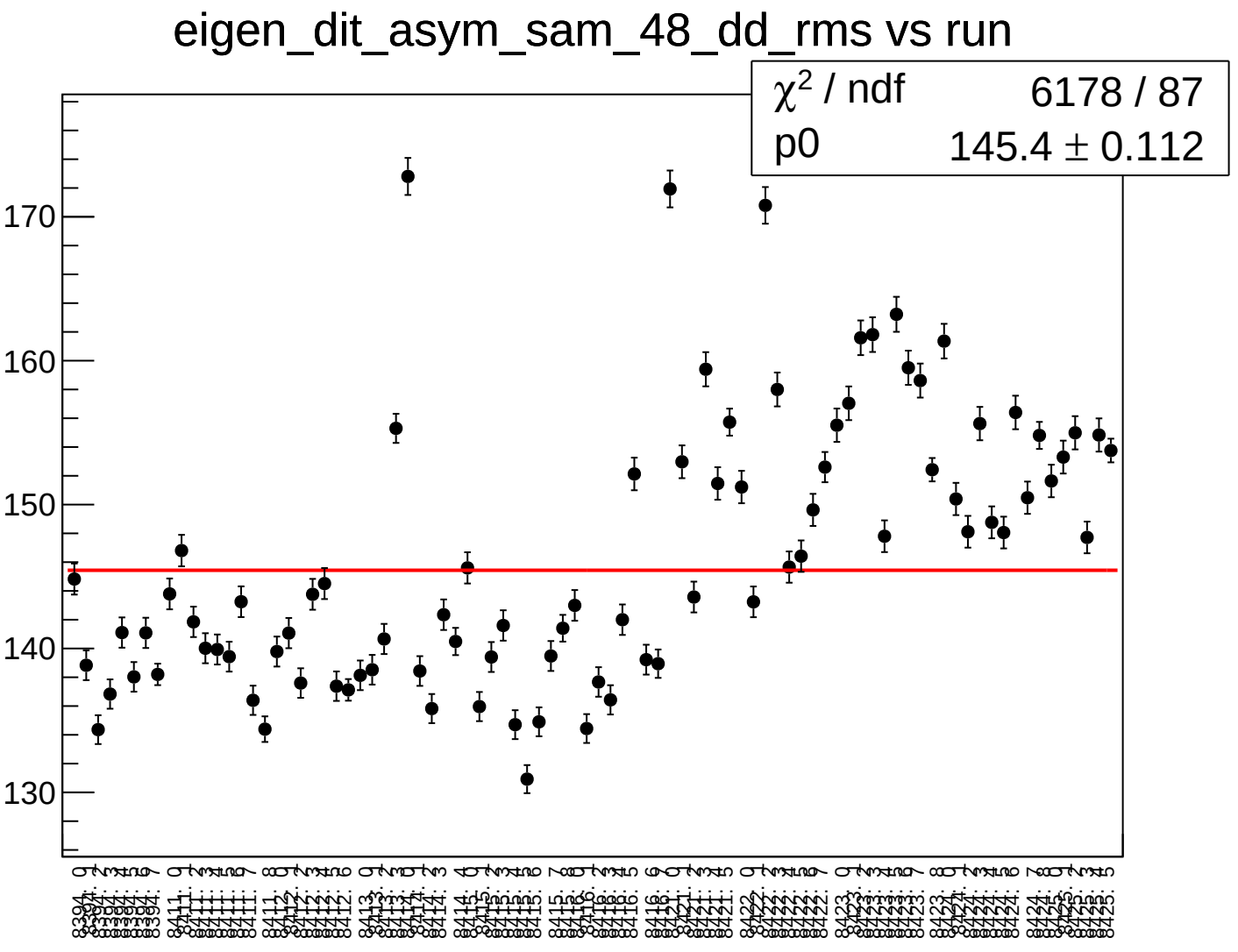

dit_asym_sam_48_dd_rms vs run
χ^2 / ndf 6178 / 87
p0 145.4 ± 0.112
170
160
150
140
130

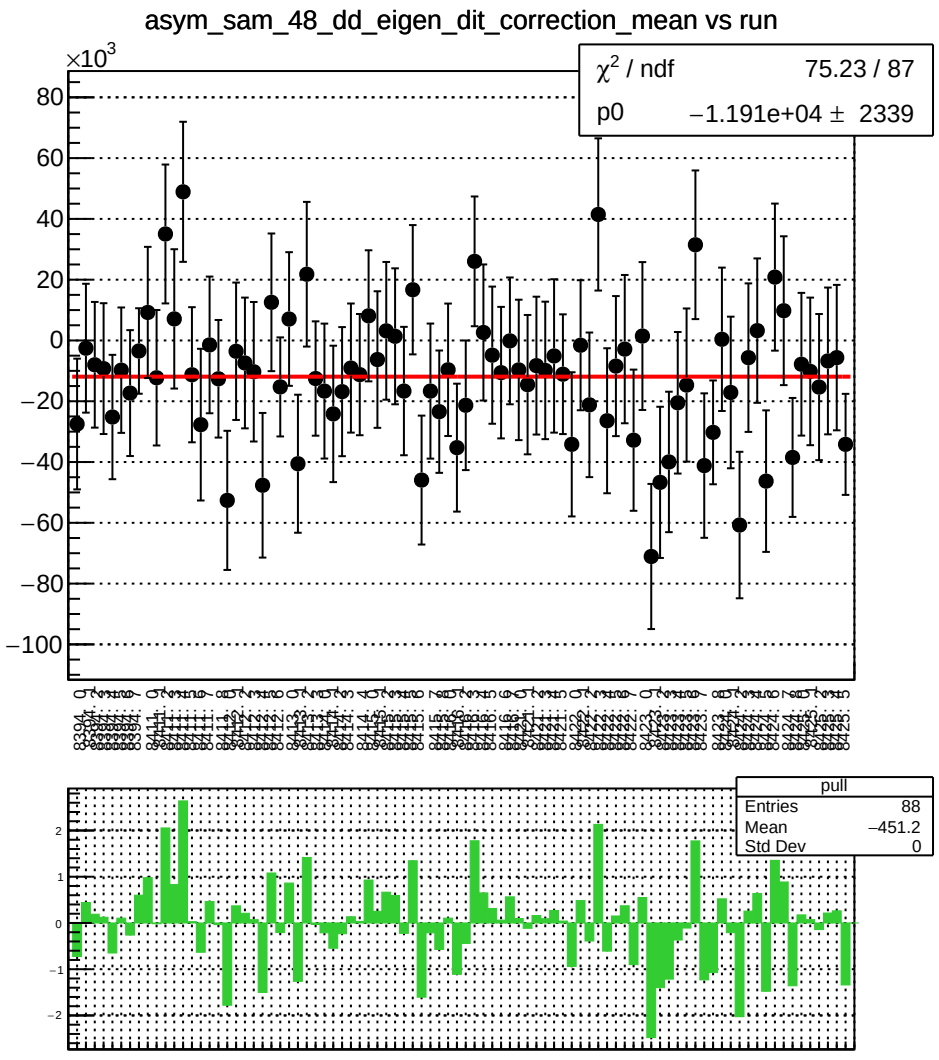

asym_sam_48_dd_dit_correction_mean vs run
×10^3
χ² / ndf 75.23 / 87
p0 −1.191e+04 ± 2339
pull
Entries 88
Mean −451.2
Std Dev 0

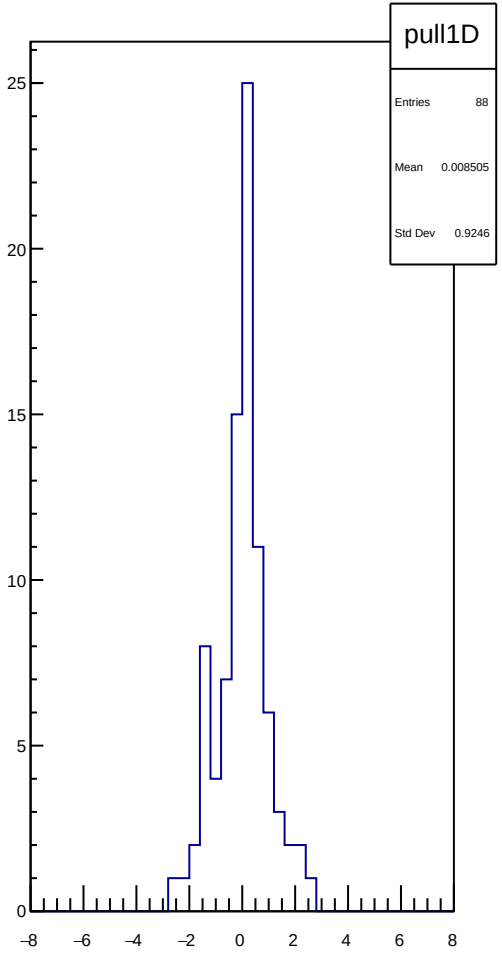

pull1D
Entries 88
Mean 0.008505
Std Dev 0.9246

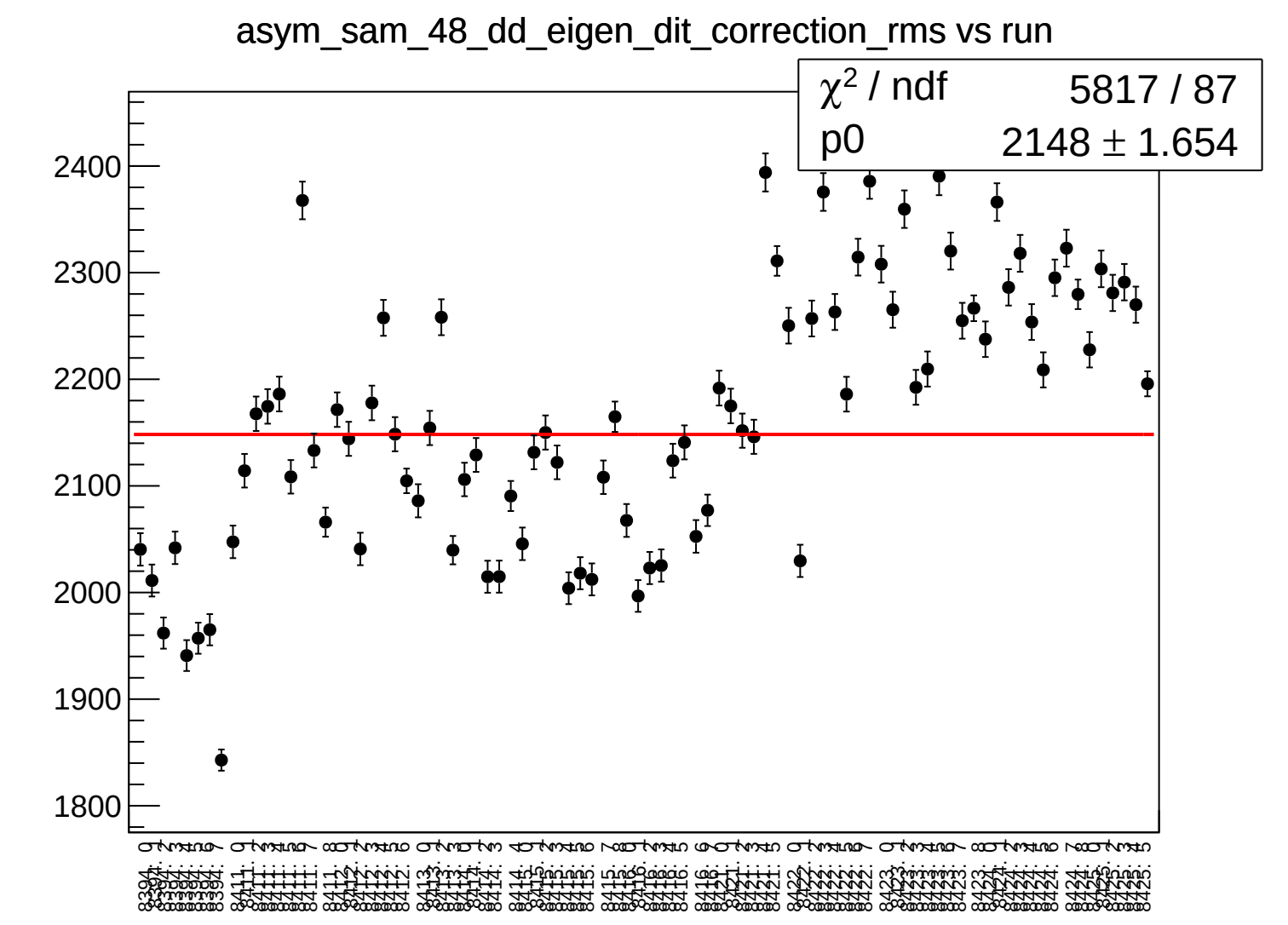

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 5817 / 87
p0 2148 ± 1.654
2400
2300
2200
2100
2000
1900
1800

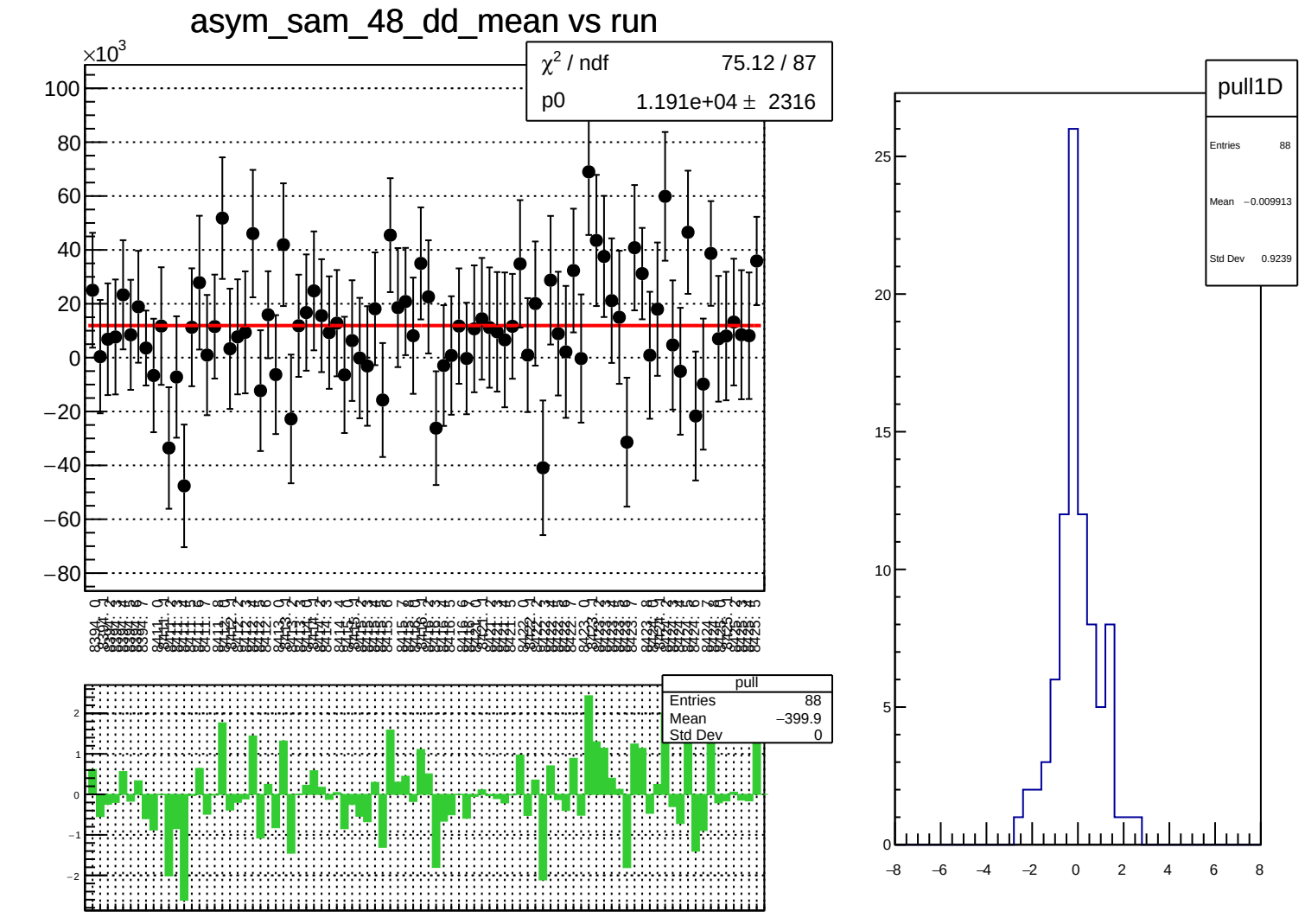

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 74.87 / 87
p0 −18.42 ± 158.4
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −69.89
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01527
Std Dev 0.9223
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

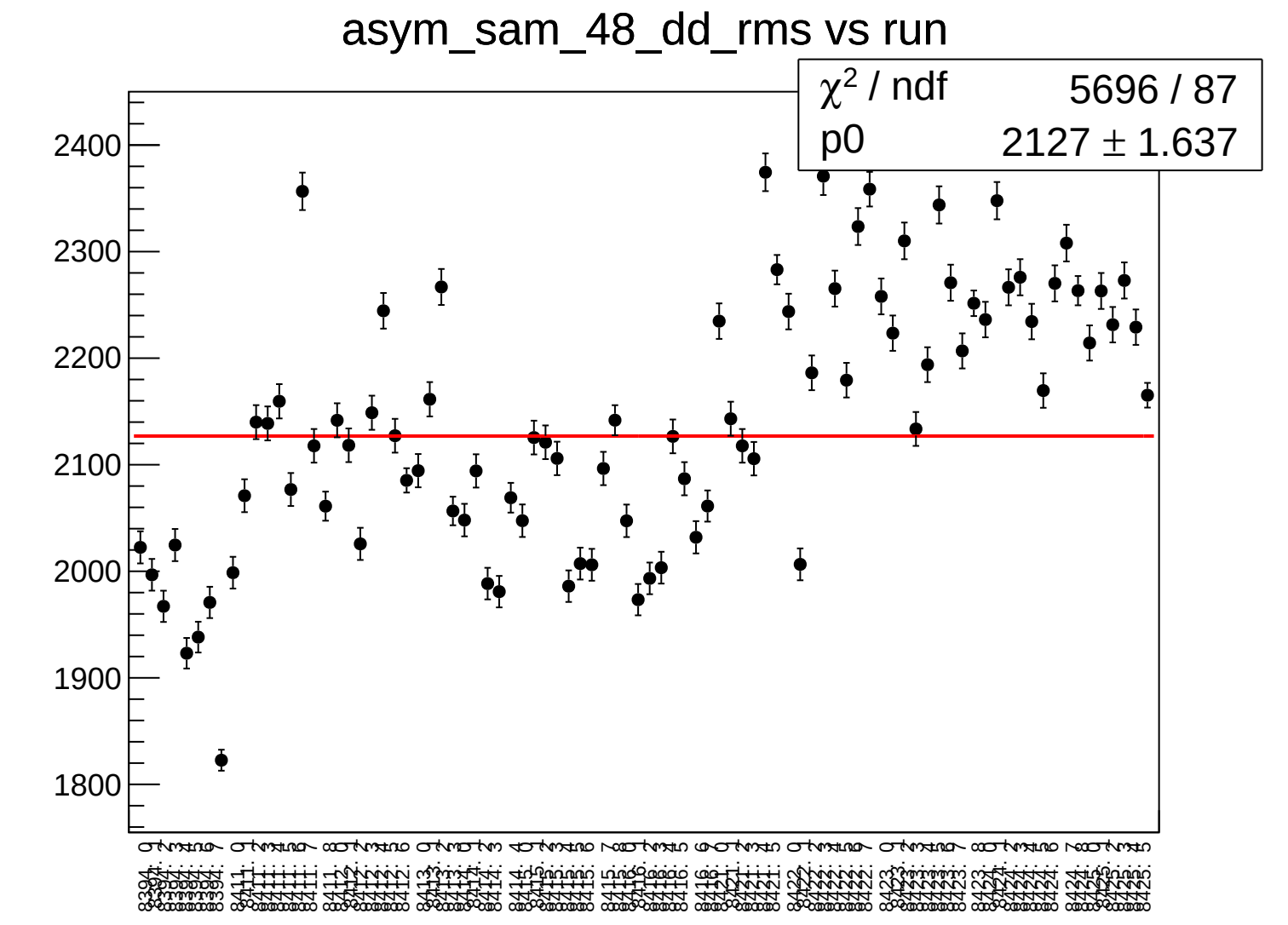

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 6178 / 87
p0 145.4 ± 0.112
170
160
150
140
130

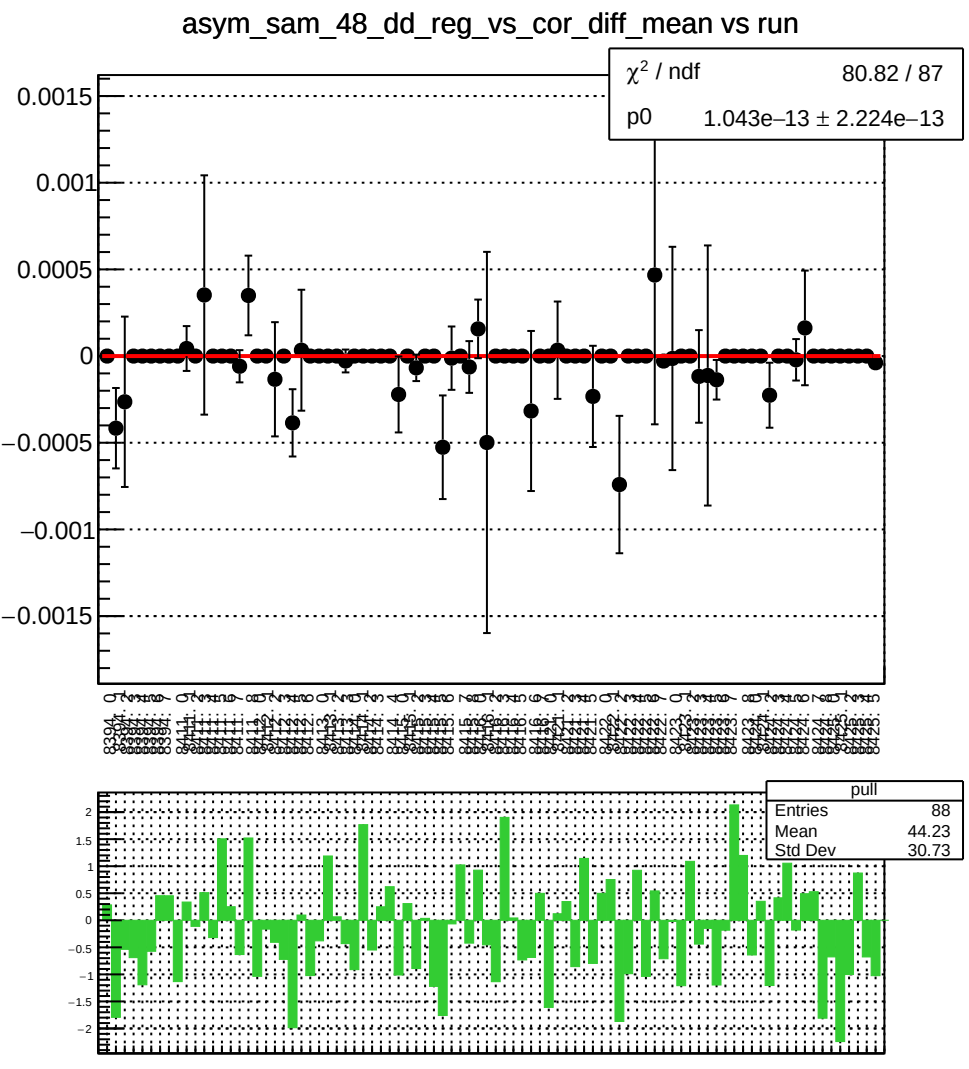

asym_sam_48_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 75.23 / 87
p0 −1.191e+04 ± 2339
pull
Entries 88
Mean −451.2
Std Dev 0

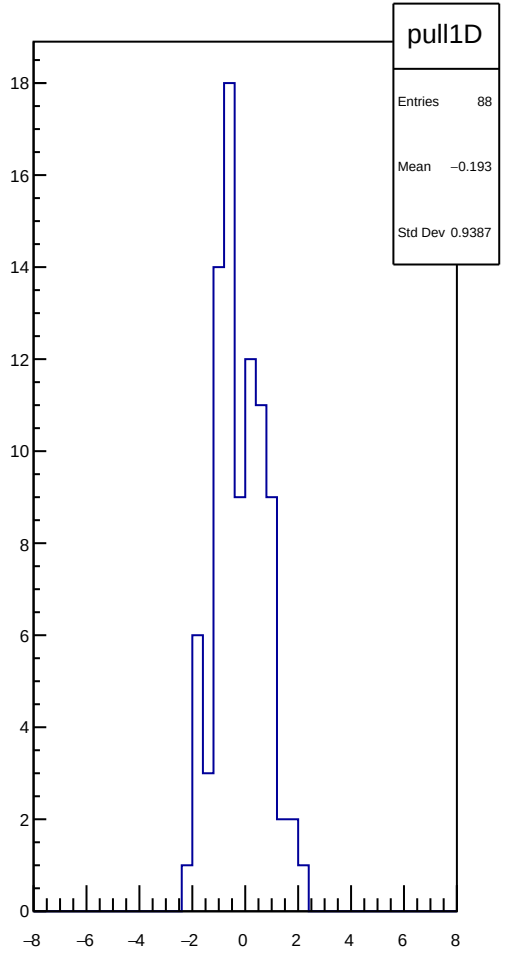

pull1D
Entries 88
Mean 0.008505
Std Dev 0.9246

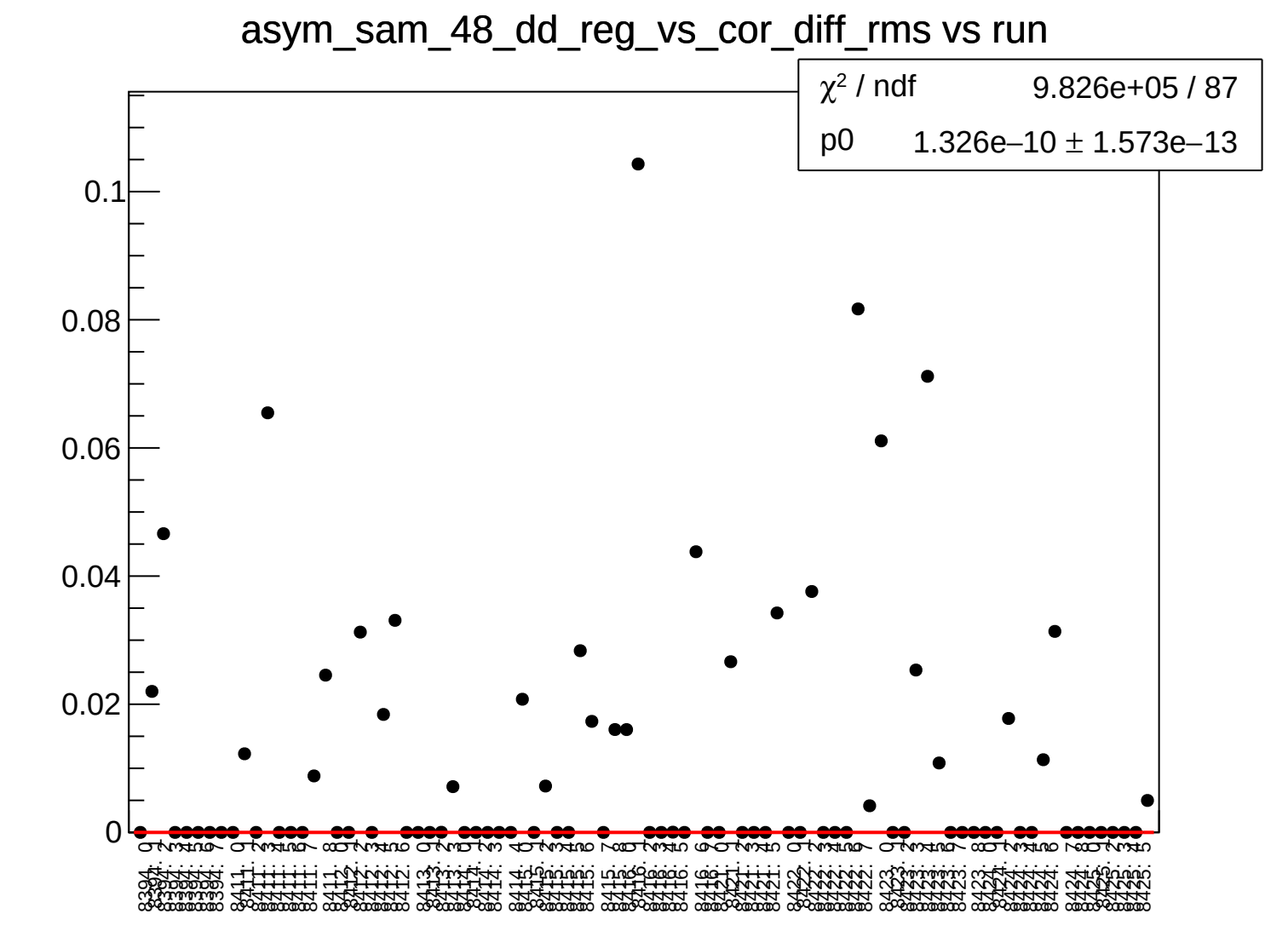

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 5817 / 87
p0 2148 ± 1.654
2400
2300
2200
2100
2000
1900
1800

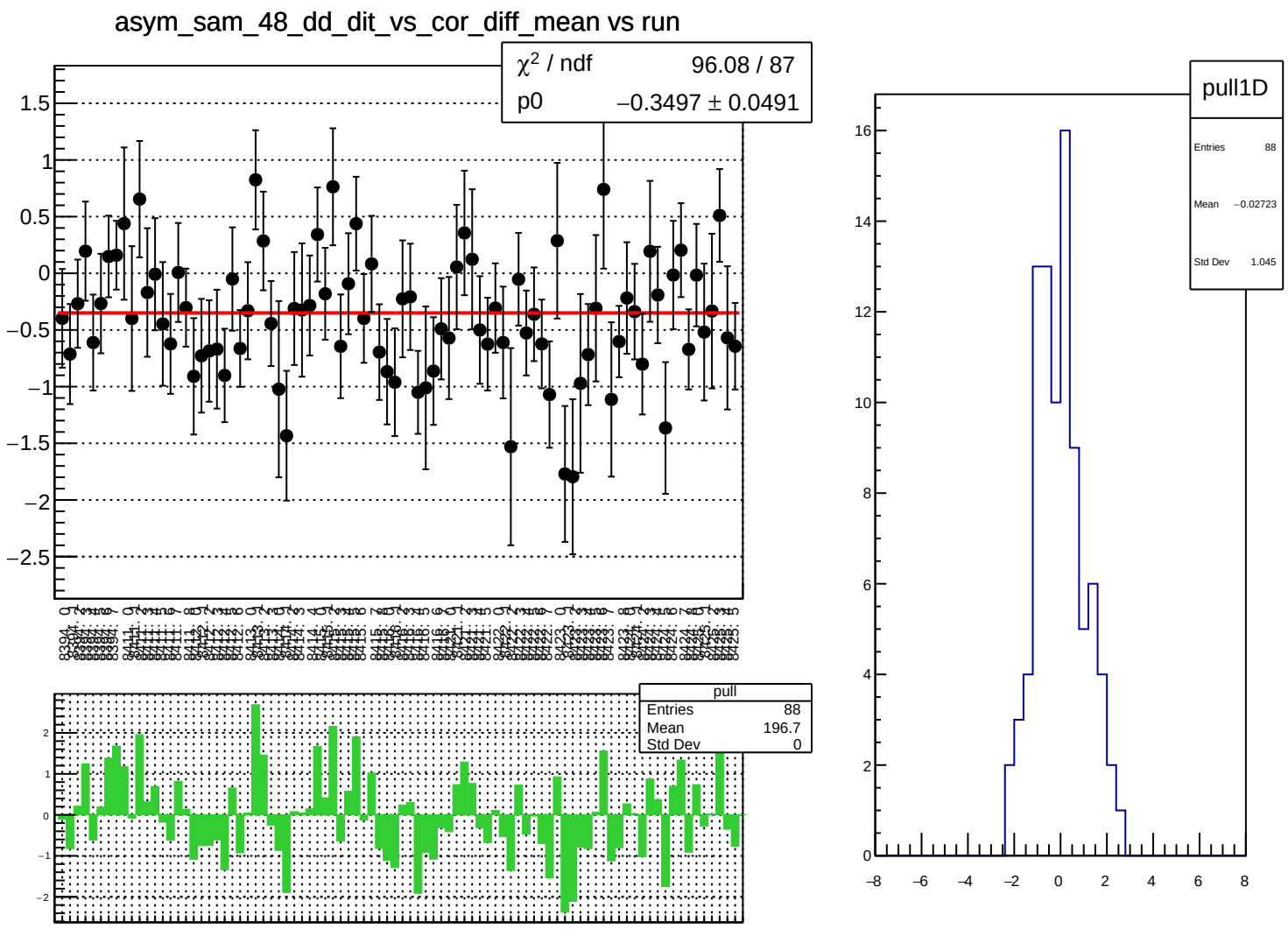

asym_sam_48_dd_mean vs run
×10^3
χ^2 / ndf 75.12 / 87
p0 1.191e+04 ± 2316
pull
Entries 88
Mean −399.9
Std Dev 0
pull1D
Entries 88
Mean −0.009913
Std Dev 0.9239

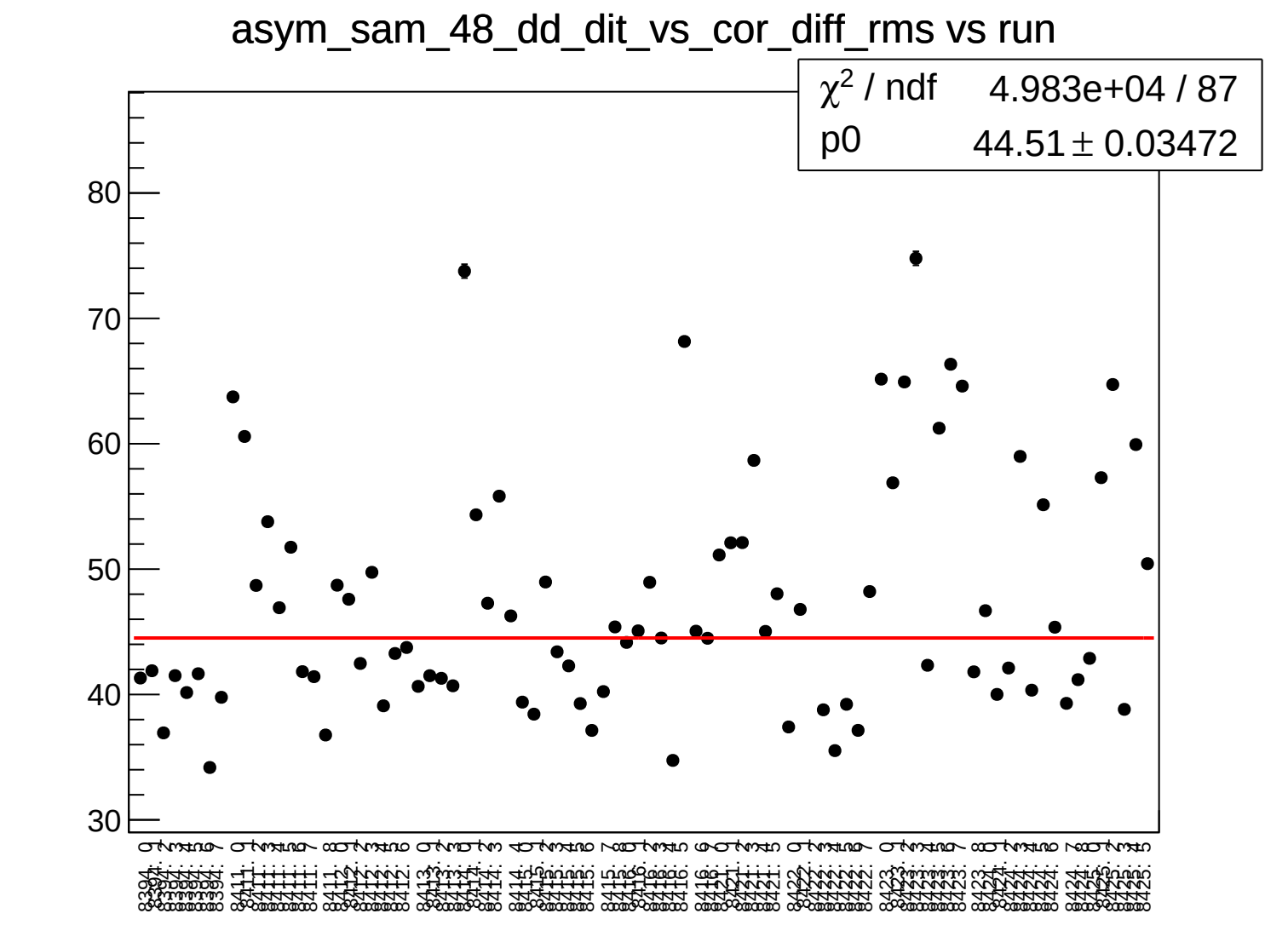

asym_sam_48_dd_rms vs run
χ^2 / ndf 5696 / 87
p0 2127 ± 1.637
2400
2300
2200
2100
2000
1900
1800

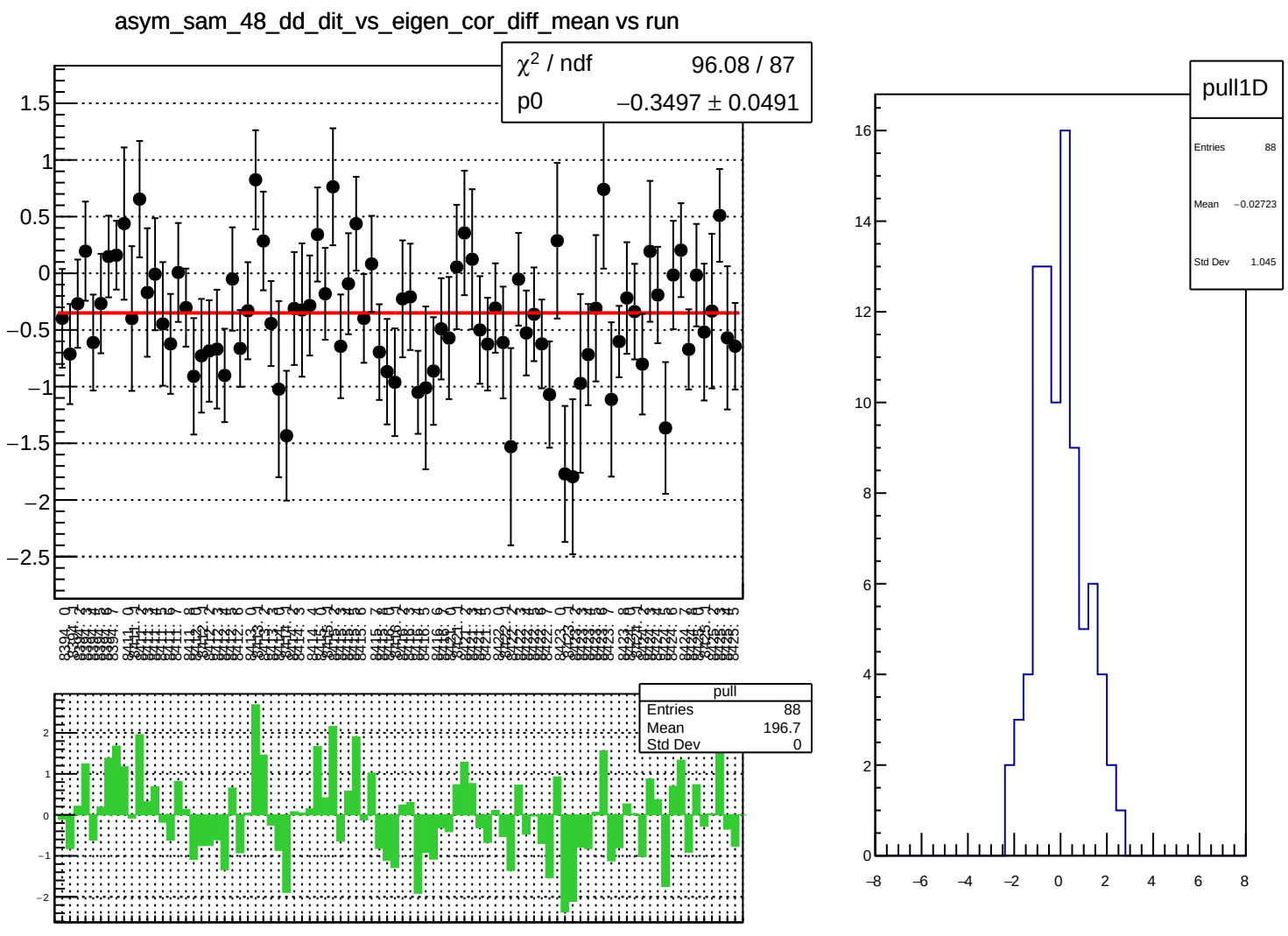

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 80.82 / 87
p0 1.043e−13 ± 2.224e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 88
Mean 44.23
Std Dev 30.73
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

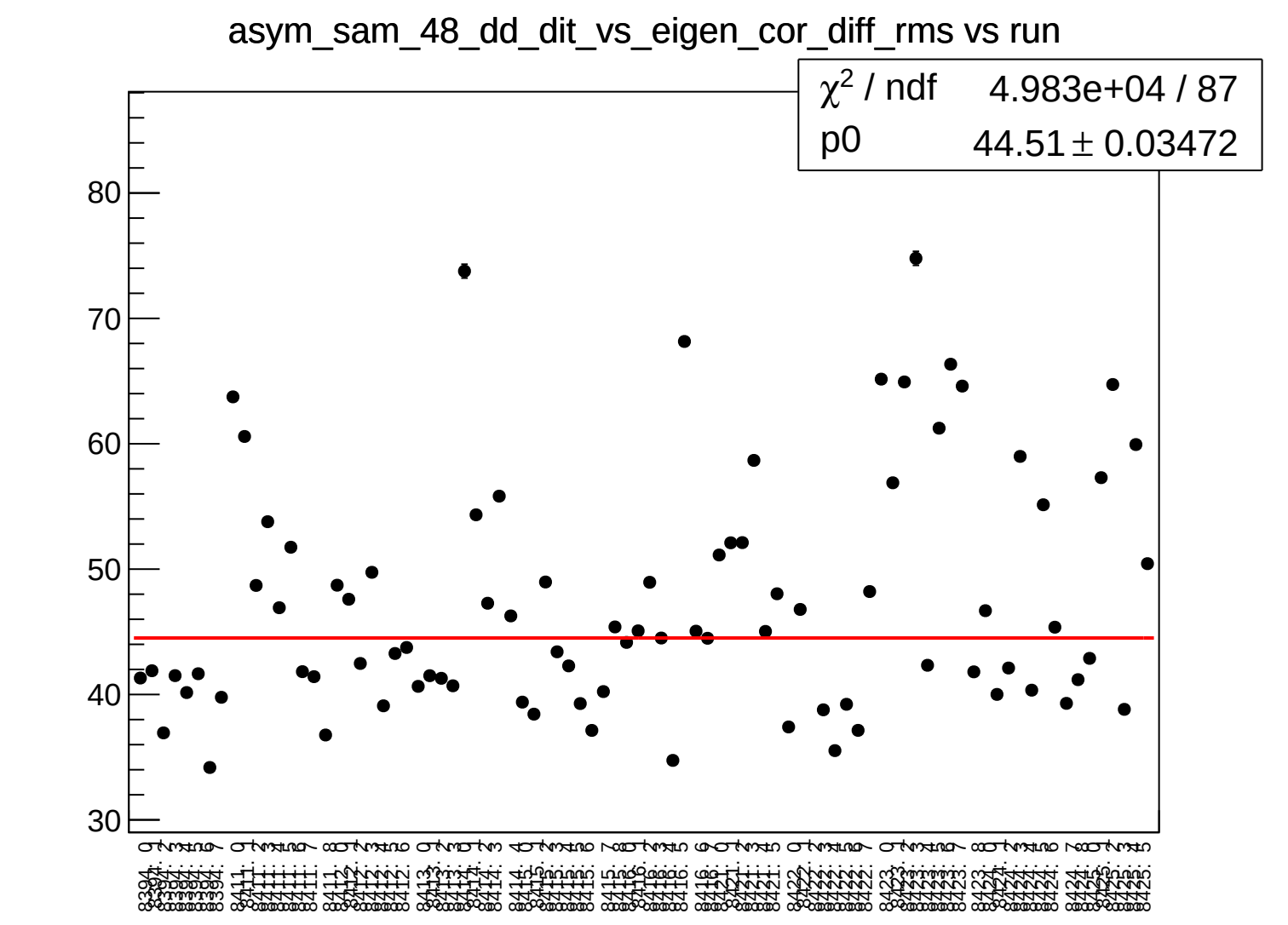

pull1D
Entries 88
Mean −0.193
Std Dev 0.9387
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

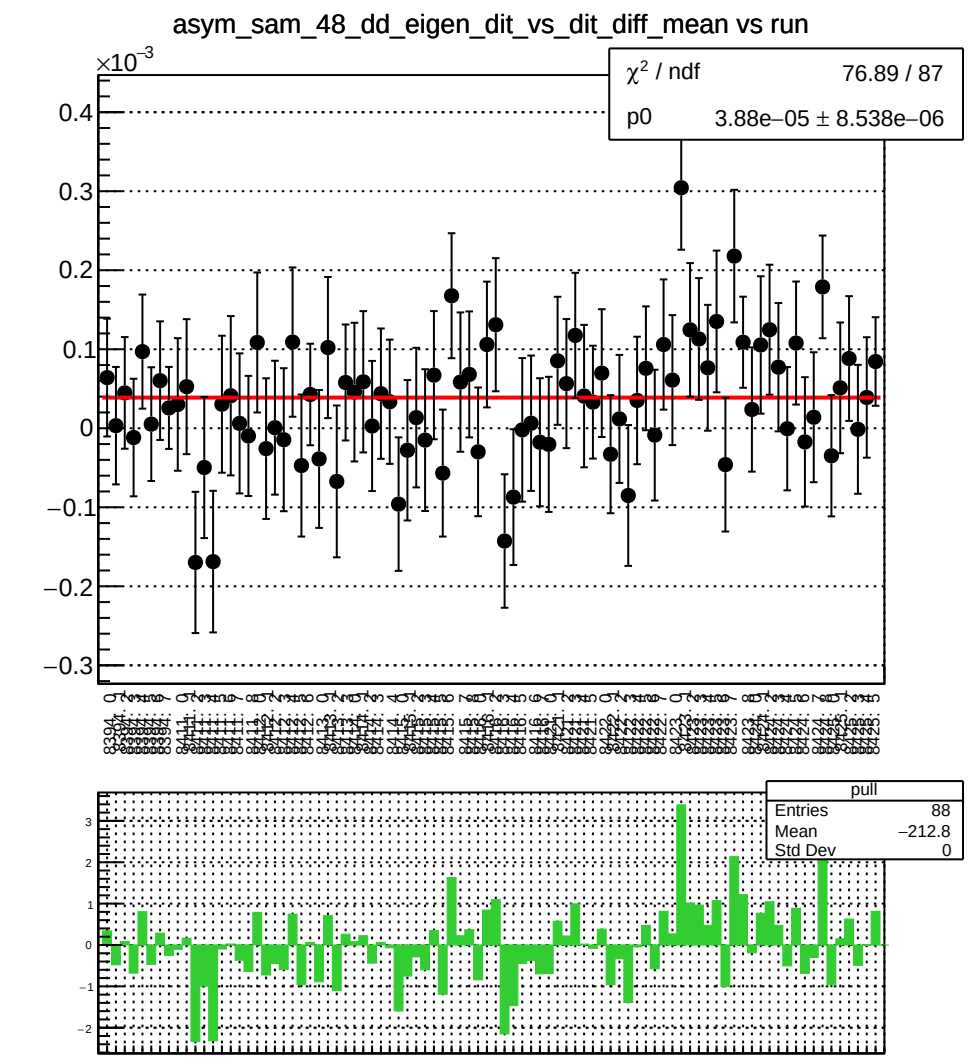

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.826e+05 / 87
p0 1.326e−10 ± 1.573e−13
0.1
0.08
0.06
0.04
0.02
0

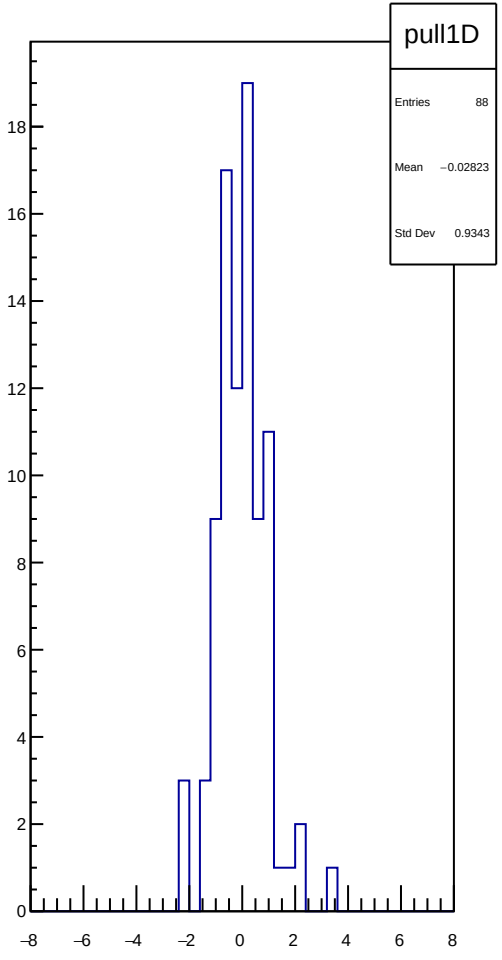

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 96.08 / 87
p0 −0.3497 ± 0.0491
pull
Entries 88
Mean 196.7
Std Dev 0
pull1D
Entries 88
Mean −0.02723
Std Dev 1.045

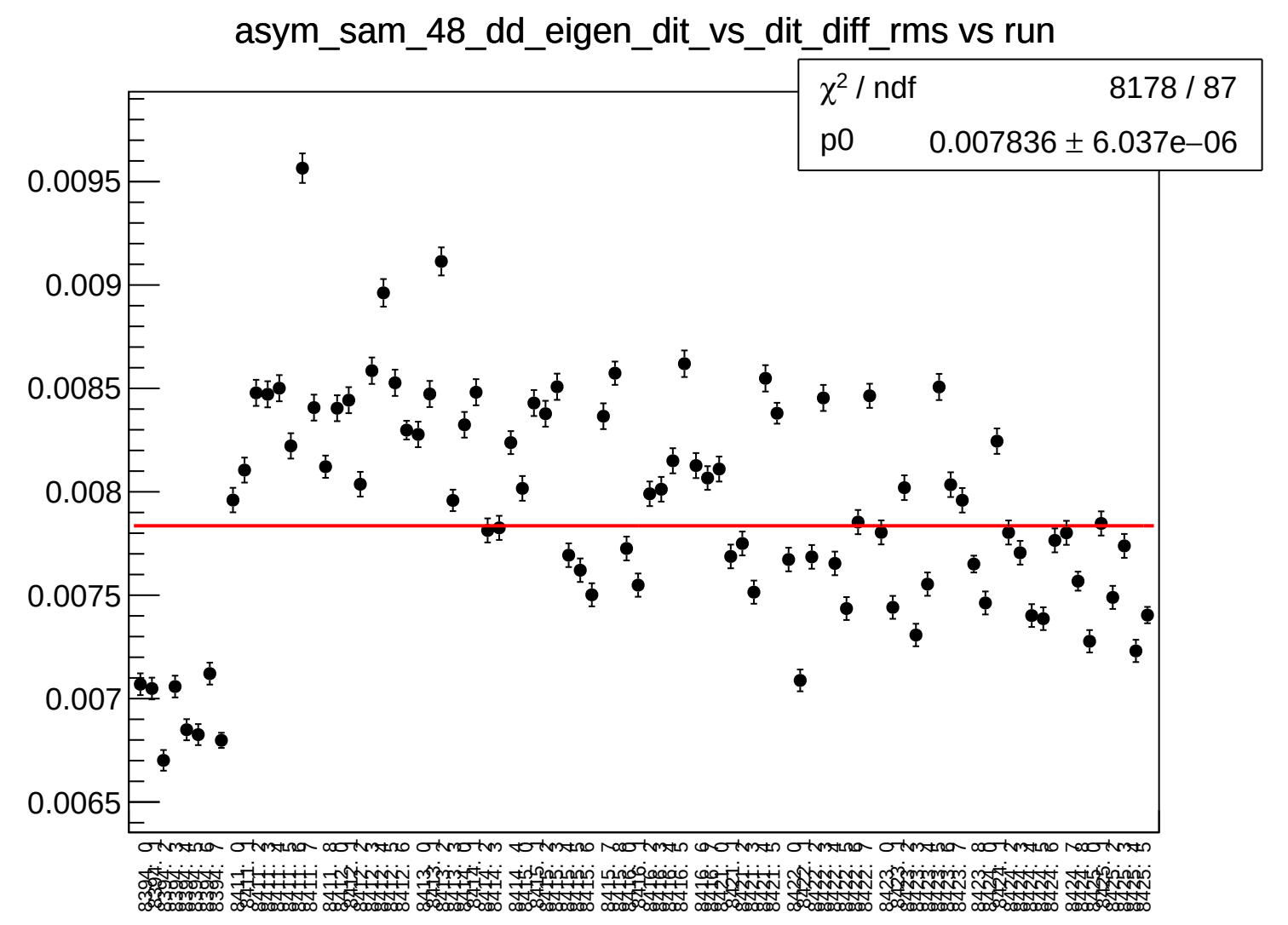

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.983e+04 / 87
p0 44.51 ± 0.03472
80
70
60
50
40
30

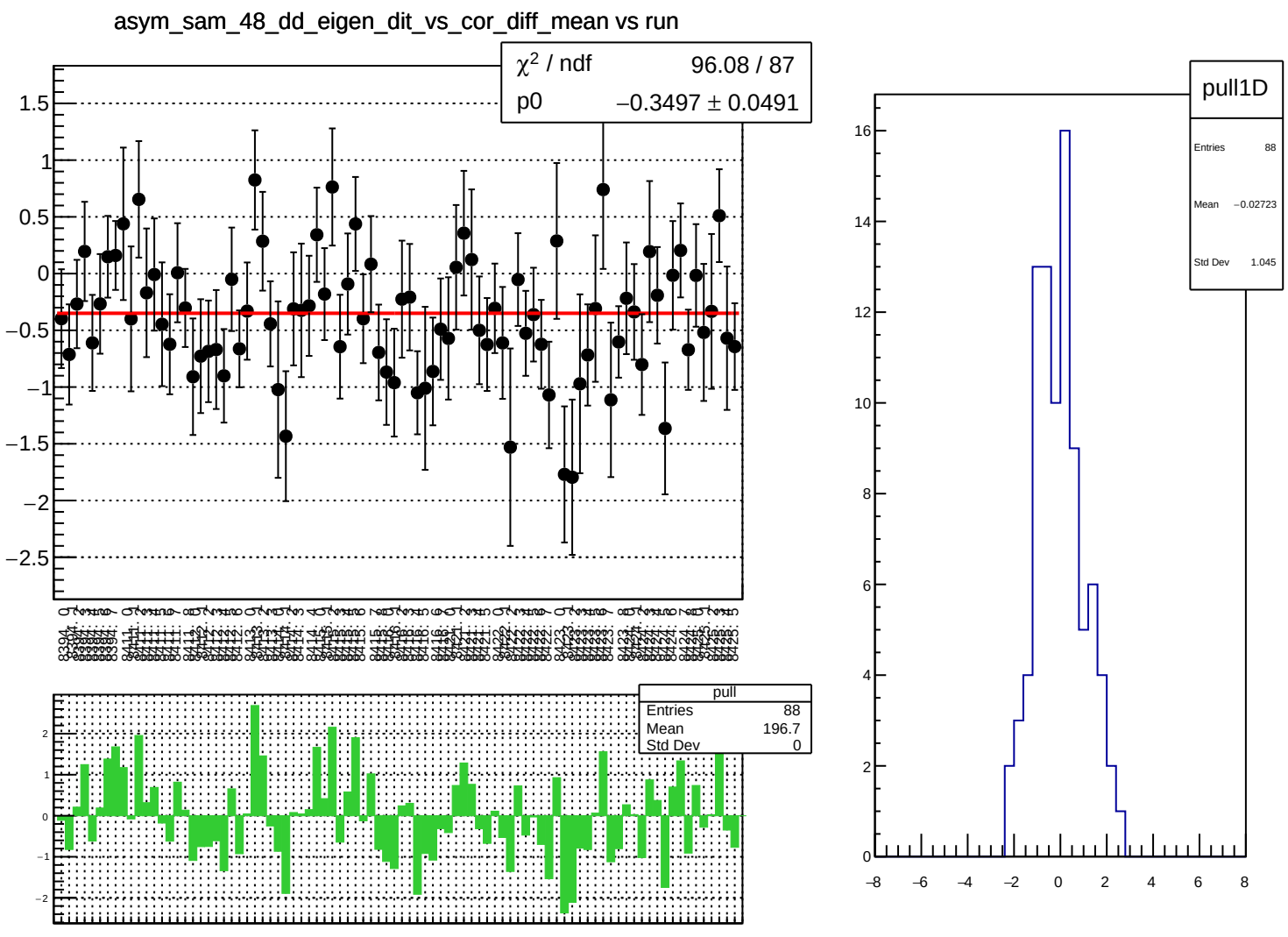

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.08 / 87
p0 −0.3497 ± 0.0491
pull
Entries 88
Mean 196.7
Std Dev 0
pull1D
Entries 88
Mean −0.02723
Std Dev 1.045

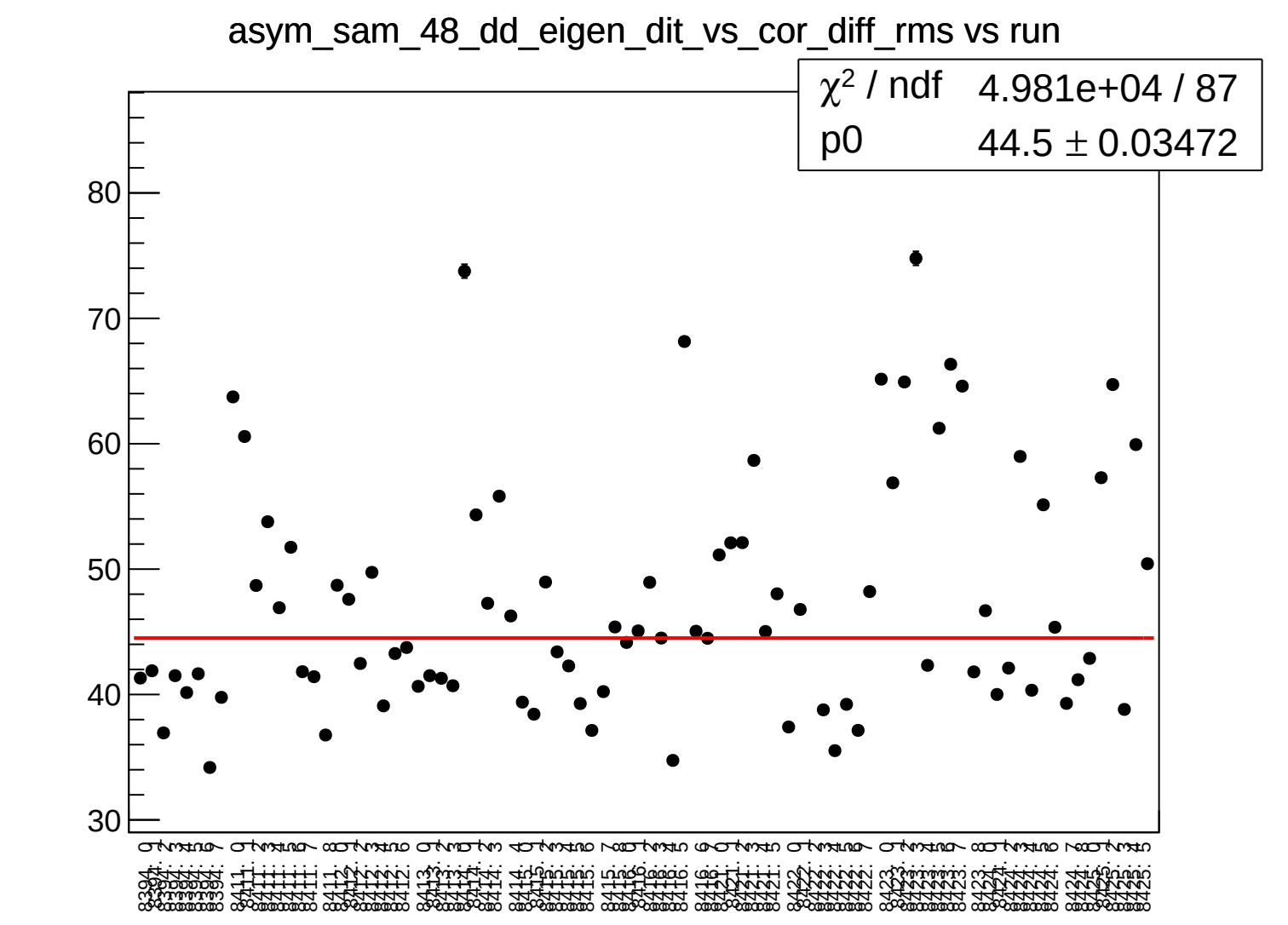

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 4.983e+04 / 87
p0 44.51 ± 0.03472
80
70
60
50
40
30

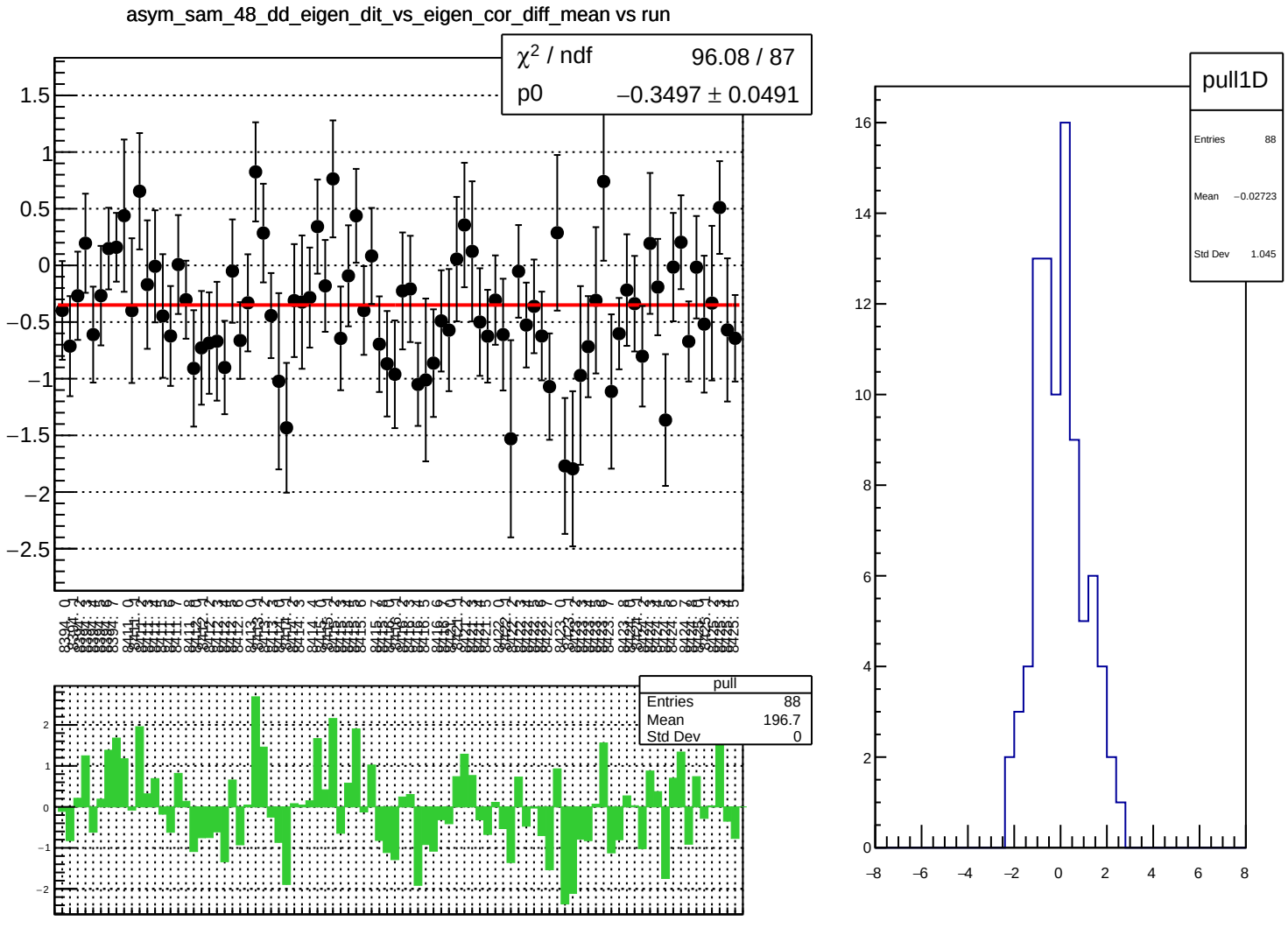

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.89 / 87
p0 3.88e−05 ± 8.538e−06
pull
Entries 88
Mean −212.8
Std Dev 0

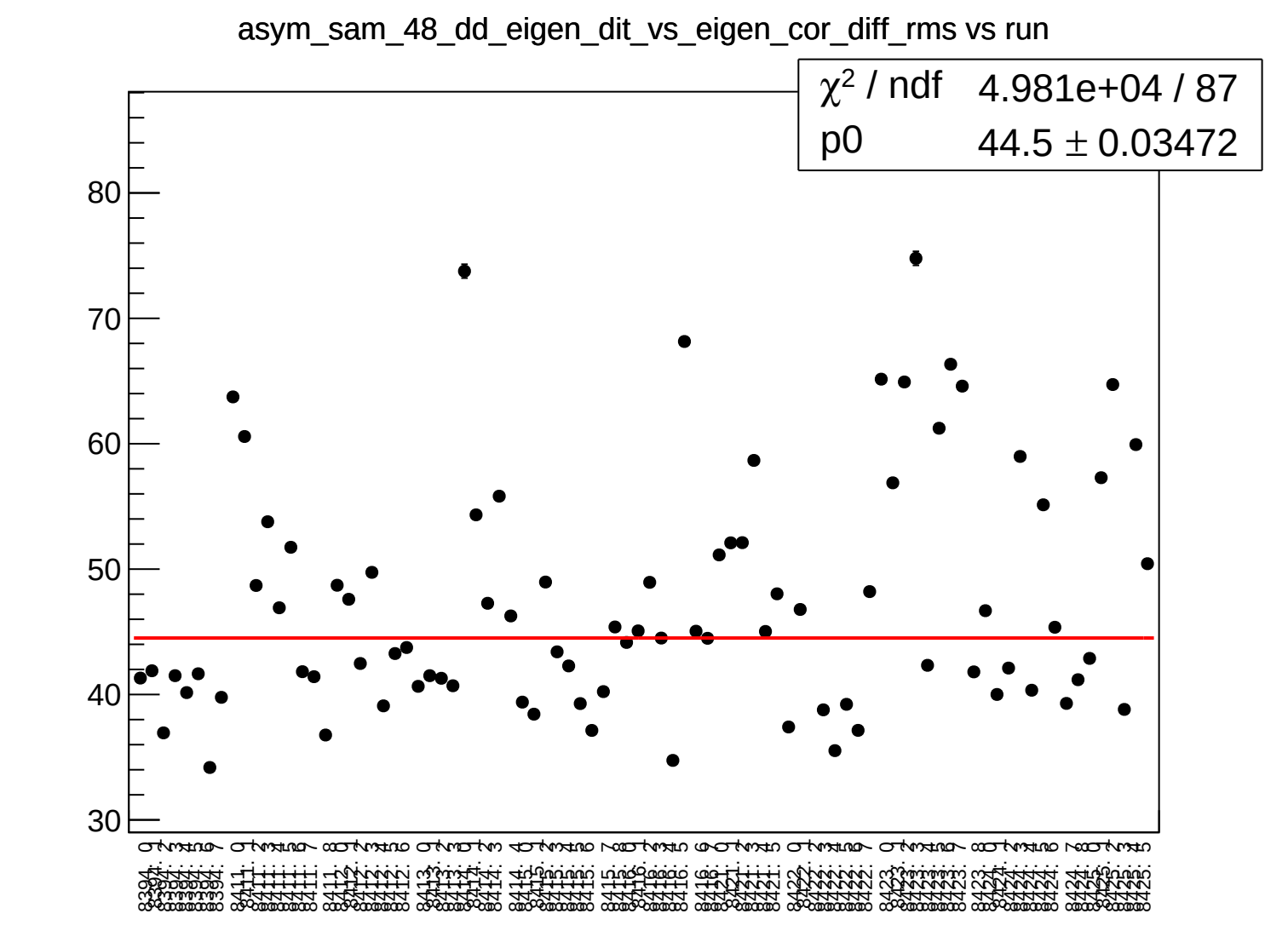

pull1D
Entries 88
Mean −0.02823
Std Dev 0.9343

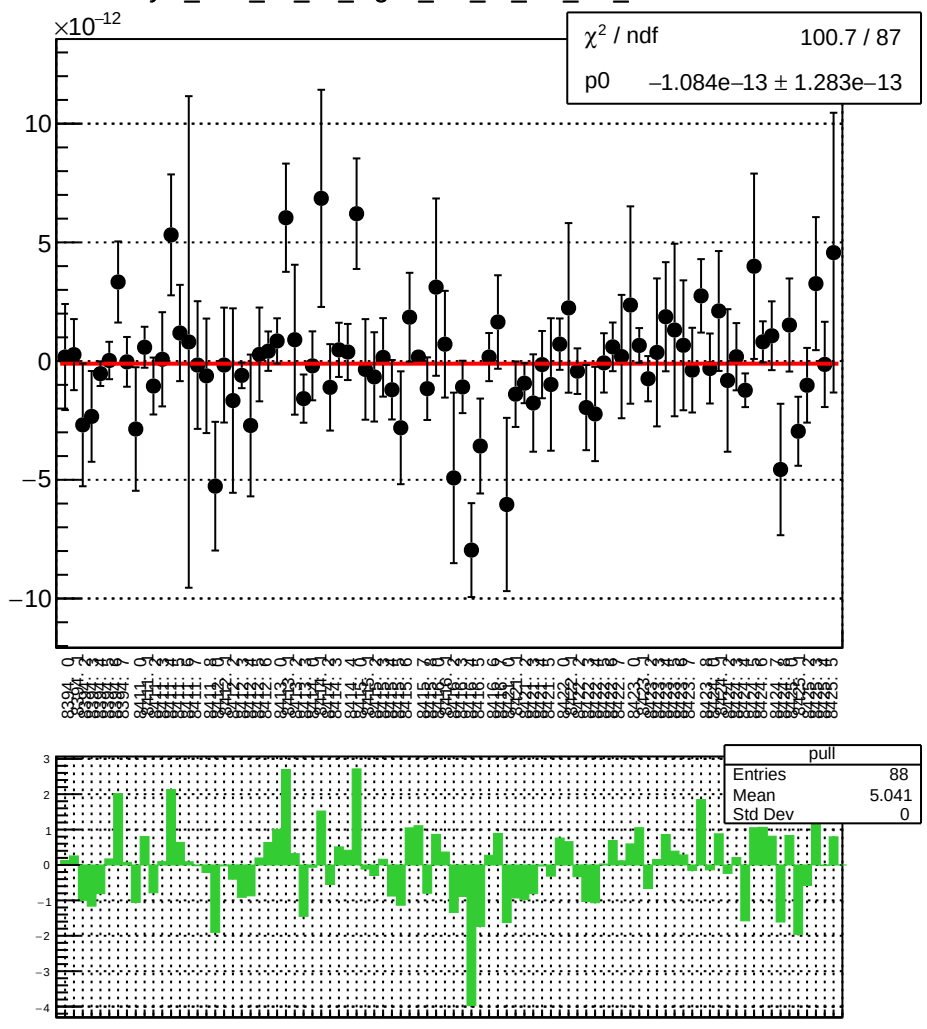

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8178 / 87
p0 0.007836 ± 6.037e−06
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065

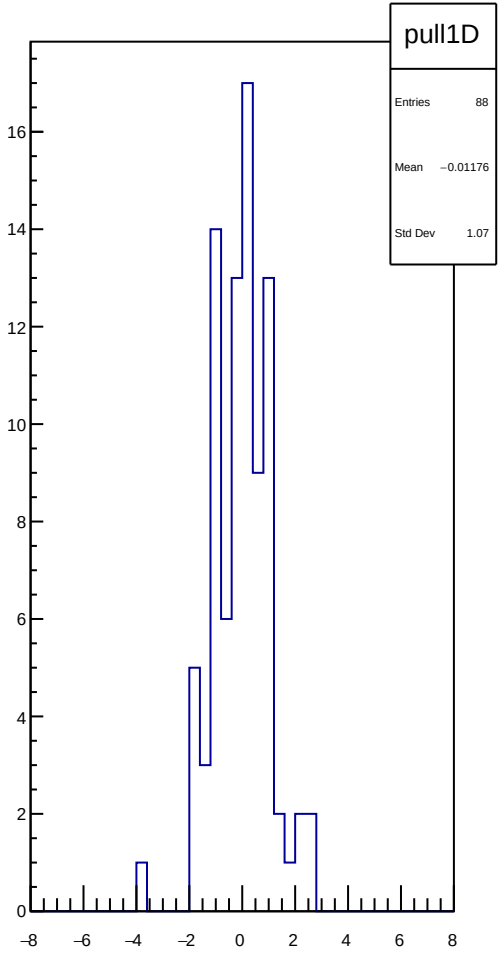

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.08 / 87
p0 −0.3497 ± 0.0491
pull
Entries 88
Mean 196.7
Std Dev 0
pull1D
Entries 88
Mean −0.02723
Std Dev 1.045

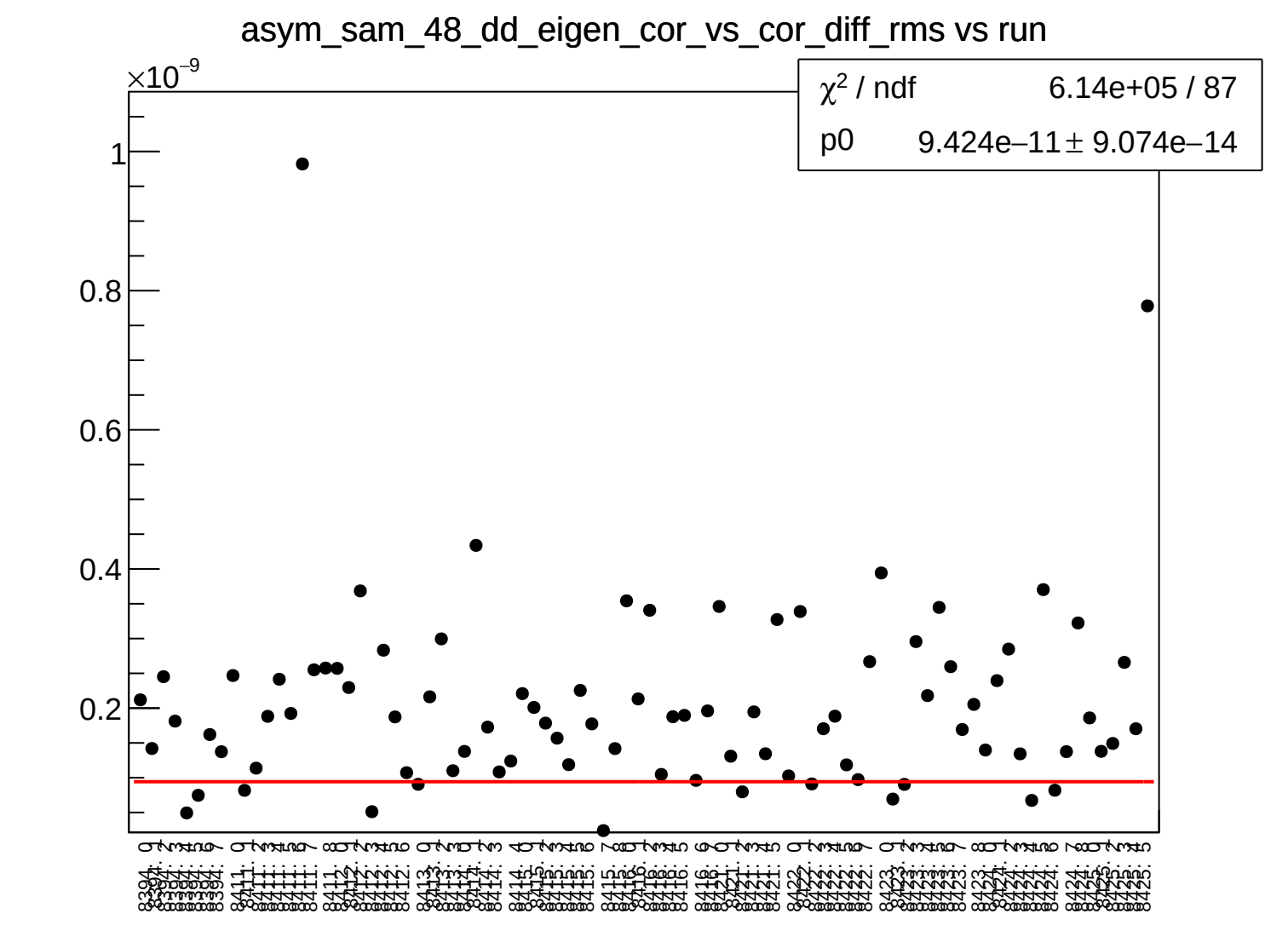

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.981e+04 / 87
p0 44.5 ± 0.03472
80
70
60
50
40
30

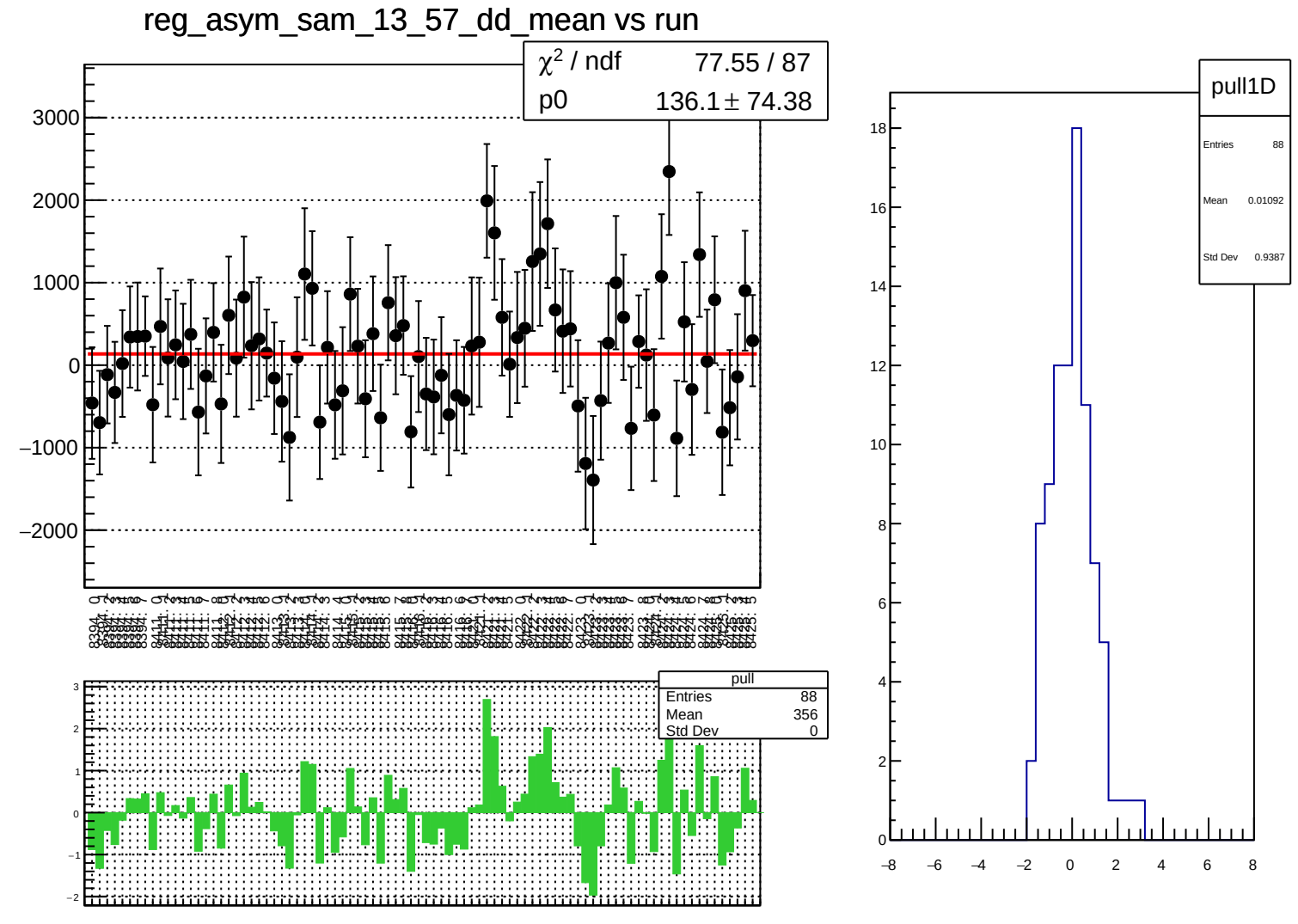

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.08 / 87
p0 −0.3497 ± 0.0491
pull
Entries 88
Mean 196.7
Std Dev 0
pull1D
Entries 88
Mean −0.02723
Std Dev 1.045

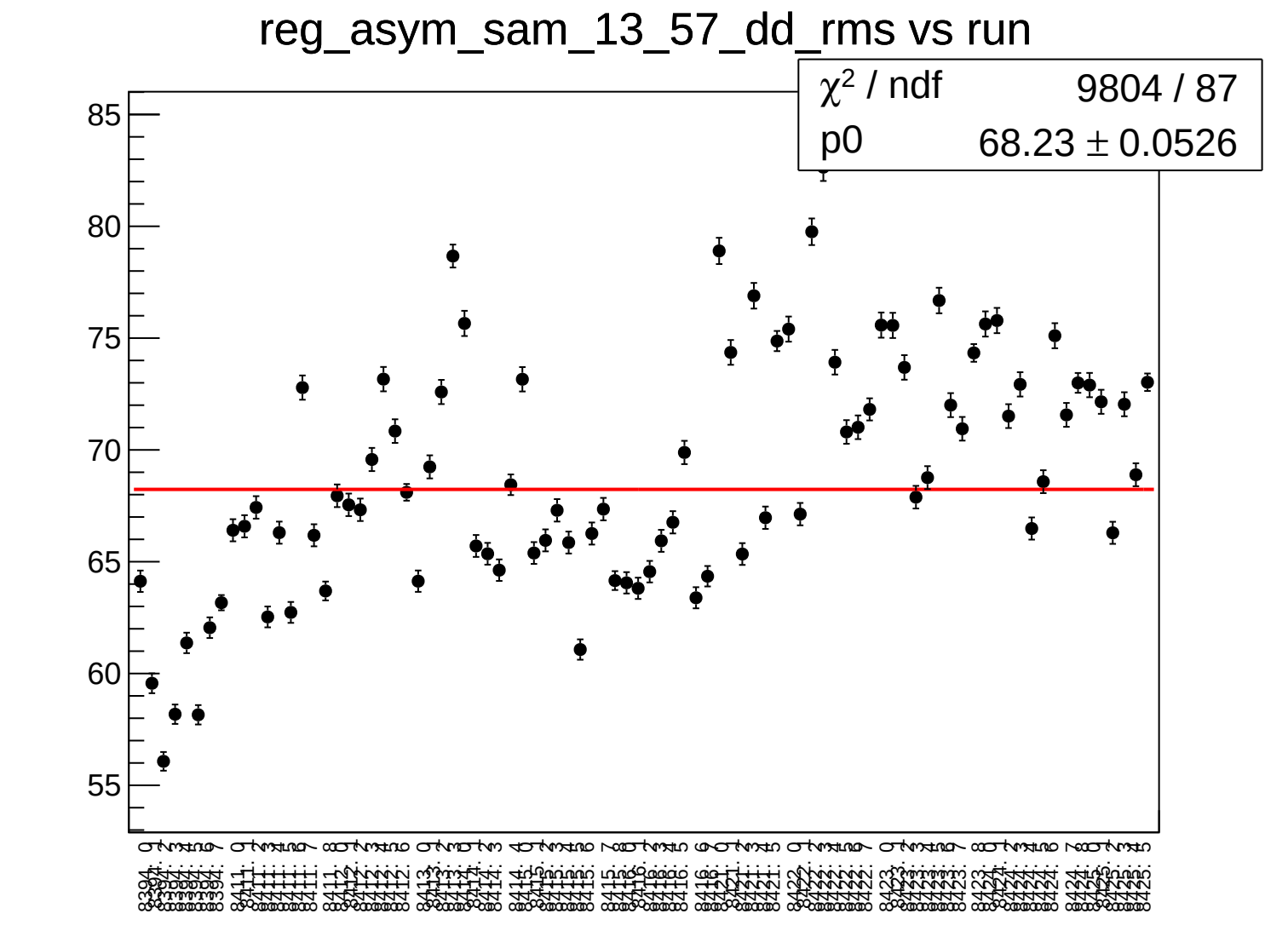

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.981e+04 / 87
p0 44.5 ± 0.03472
80
70
60
50
40
30

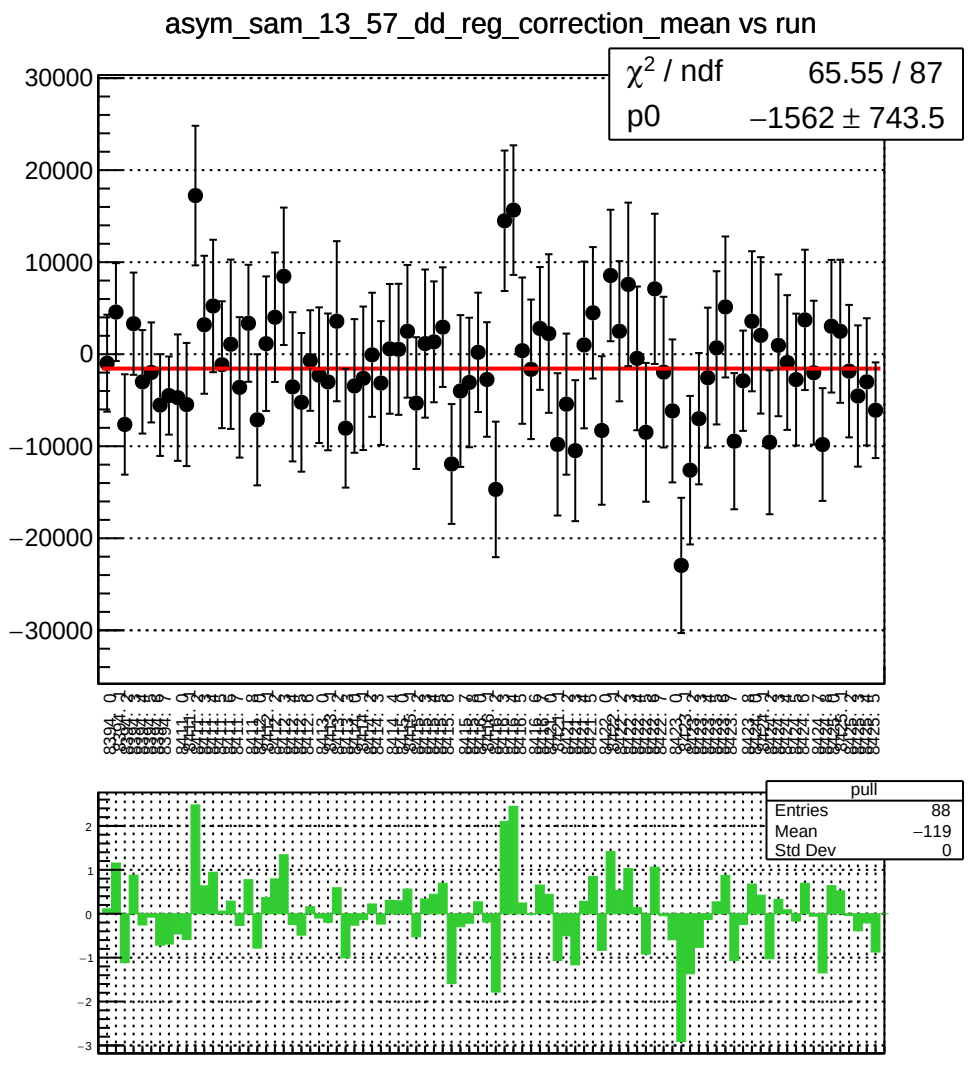

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.7 / 87
p0 −1.084e−13 ± 1.283e−13
pull
Entries 88
Mean 5.041
Std Dev 0

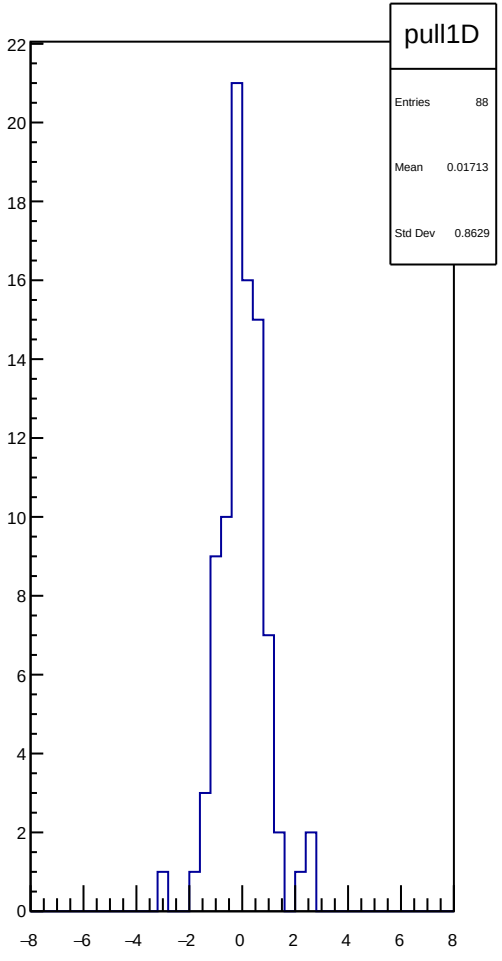

pull1D
Entries 88
Mean −0.01176
Std Dev 1.07

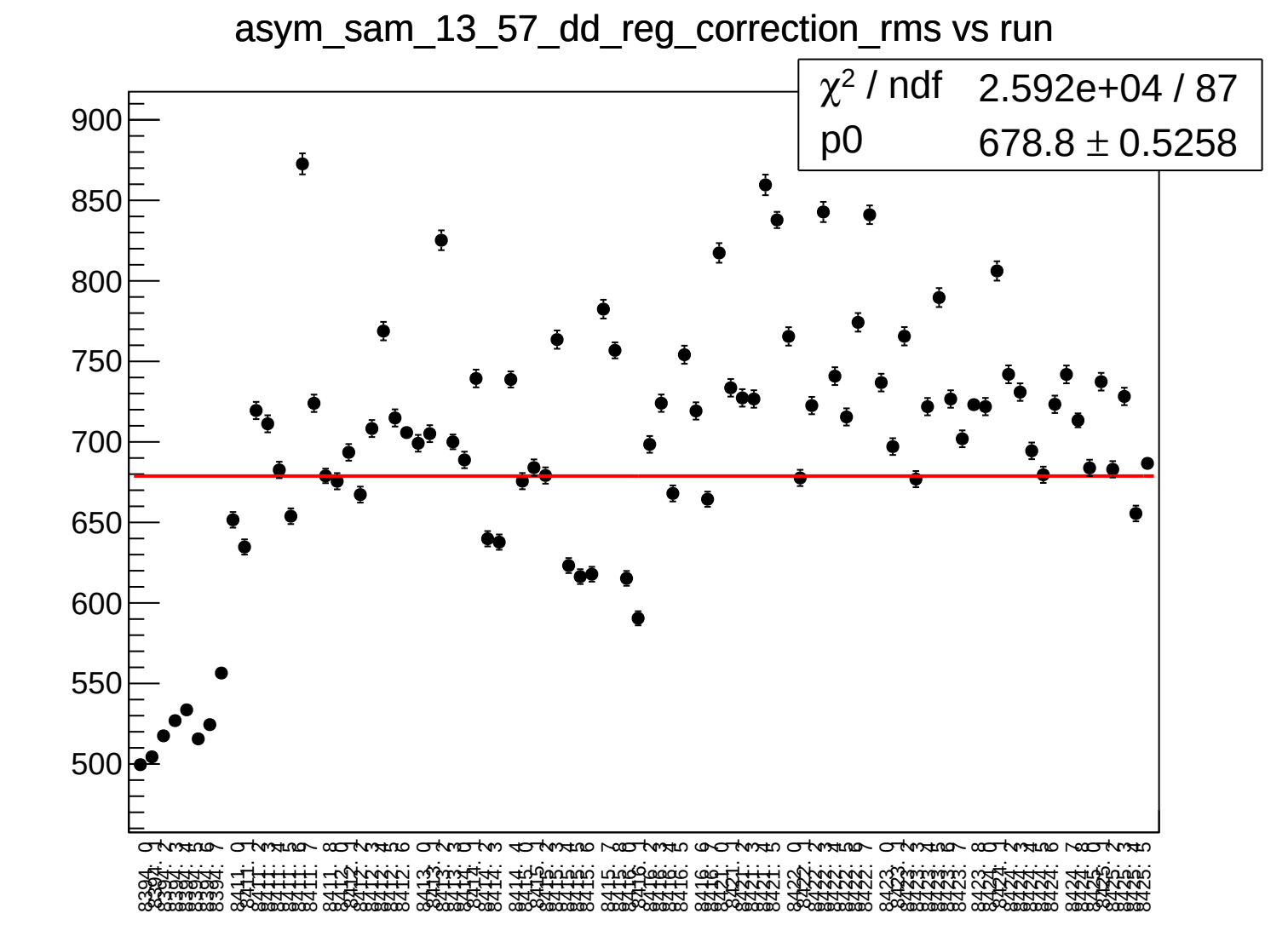

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.14e+05 / 87
p0 9.424e−11 ± 9.074e−14
1
0.8
0.6
0.4
0.2

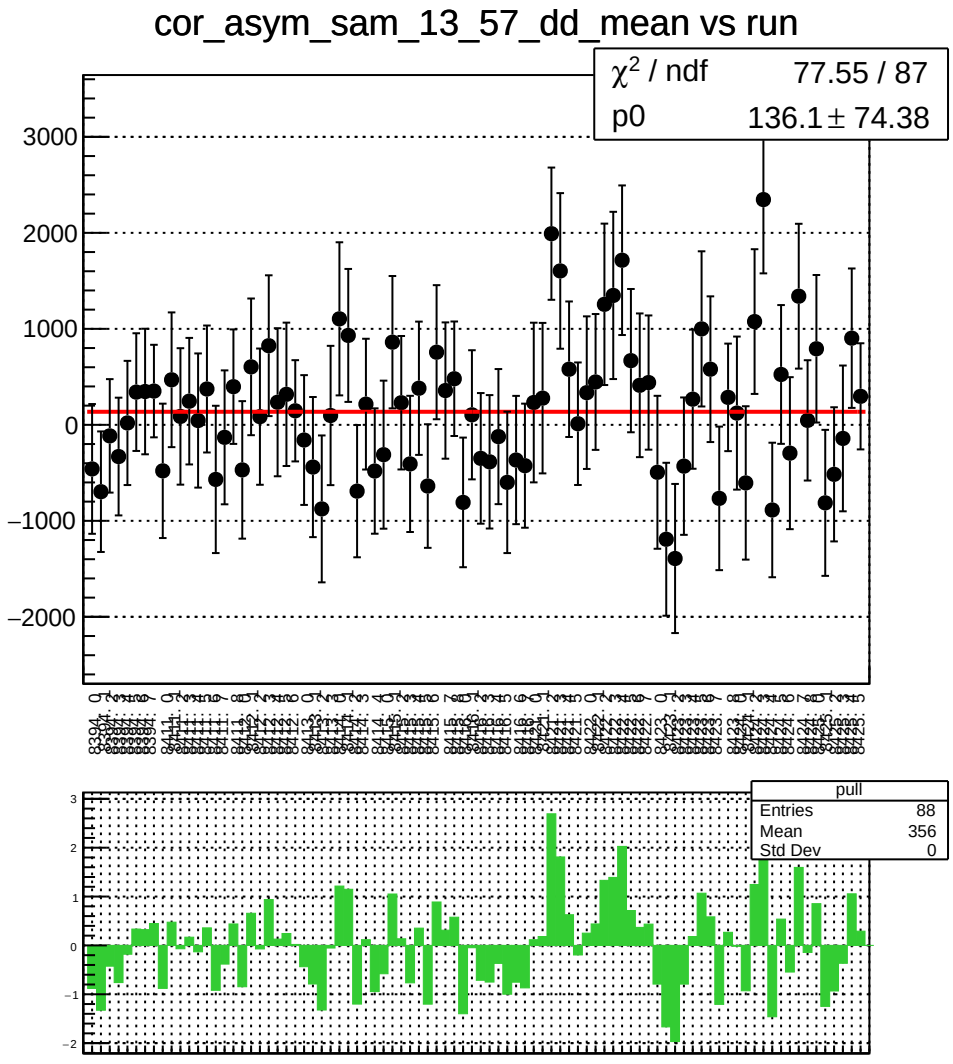

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 77.55 / 87
p0 136.1 ± 74.38
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 356
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01092
Std Dev 0.9387
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

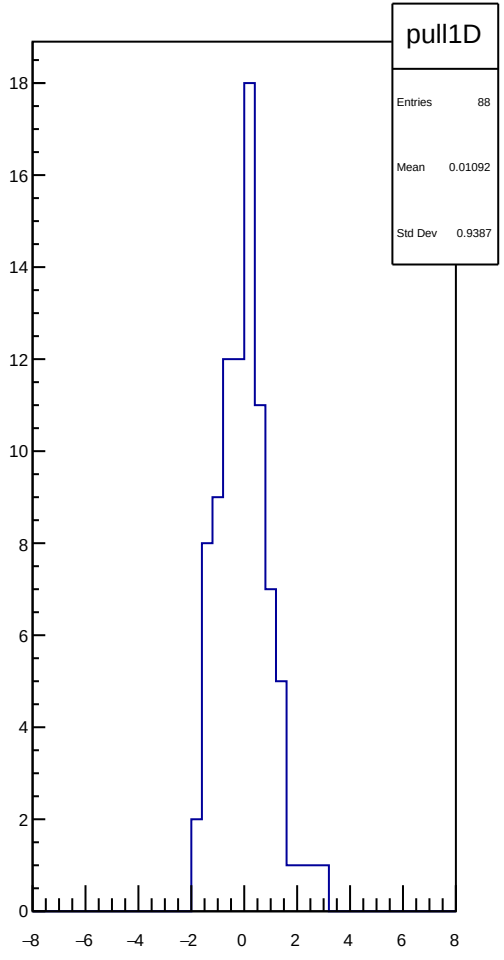

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 9804 / 87
p0 68.23 ± 0.0526
85
80
75
70
65
60
55

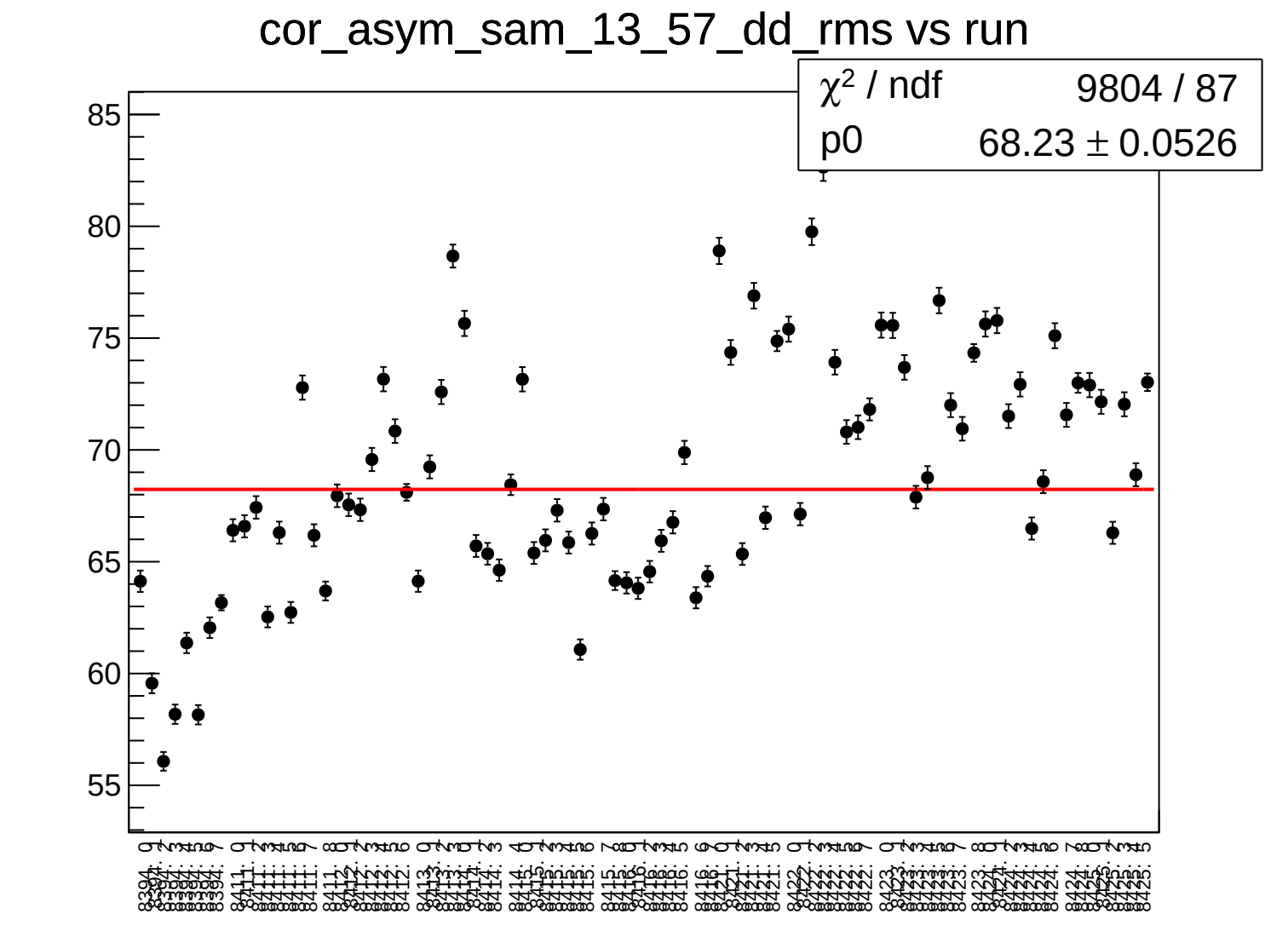

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 65.55 / 87
p0 −1562 ± 743.5
pull
Entries 88
Mean −119
Std Dev 0

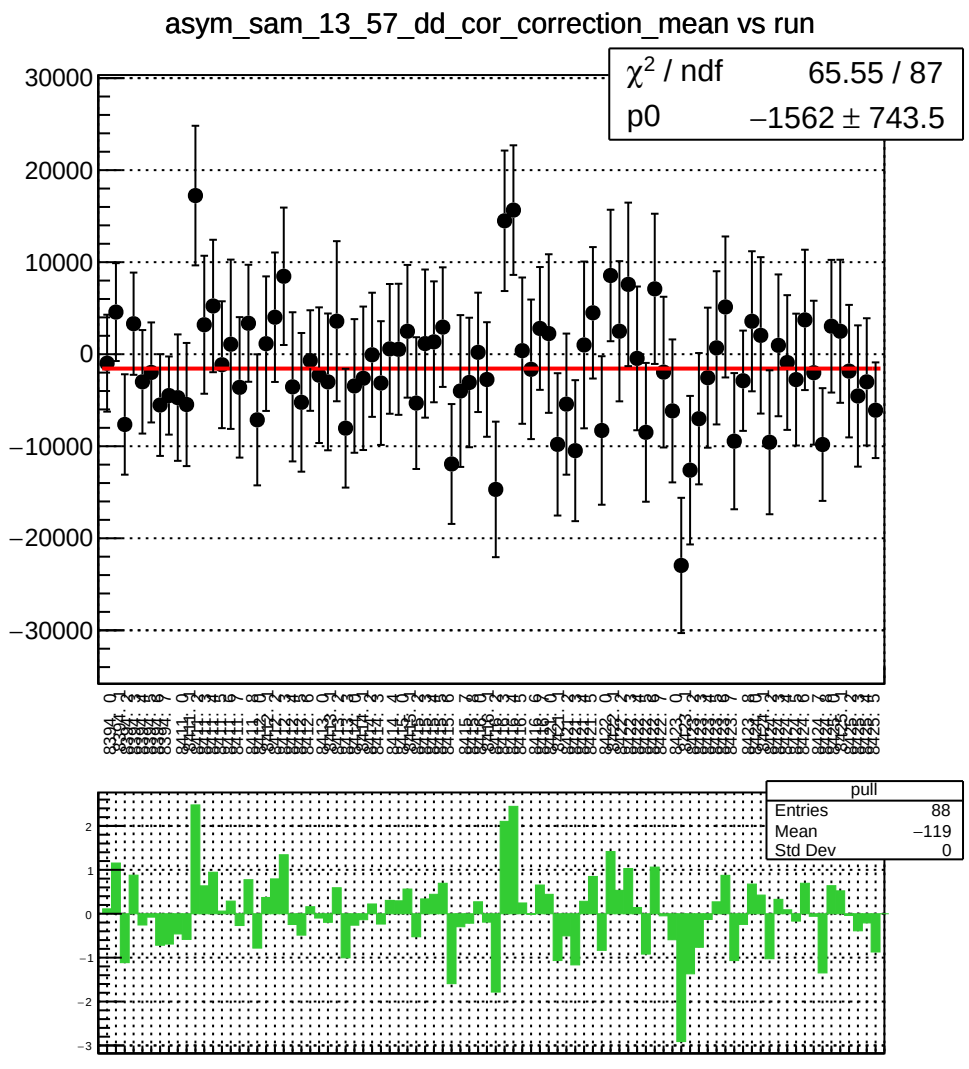

pull1D
Entries 88
Mean 0.01713
Std Dev 0.8629

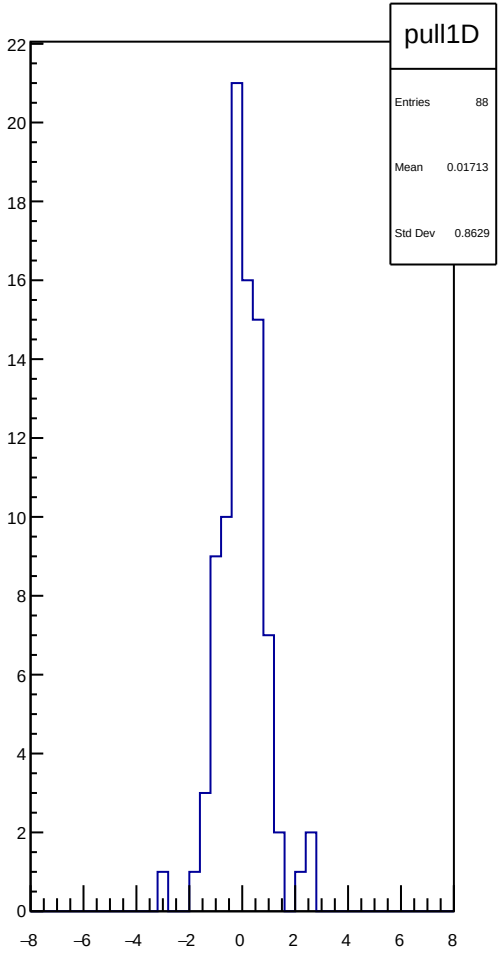

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 2.592e+04 / 87
p0 678.8 ± 0.5258
900
850
800
750
700
650
600
550
500

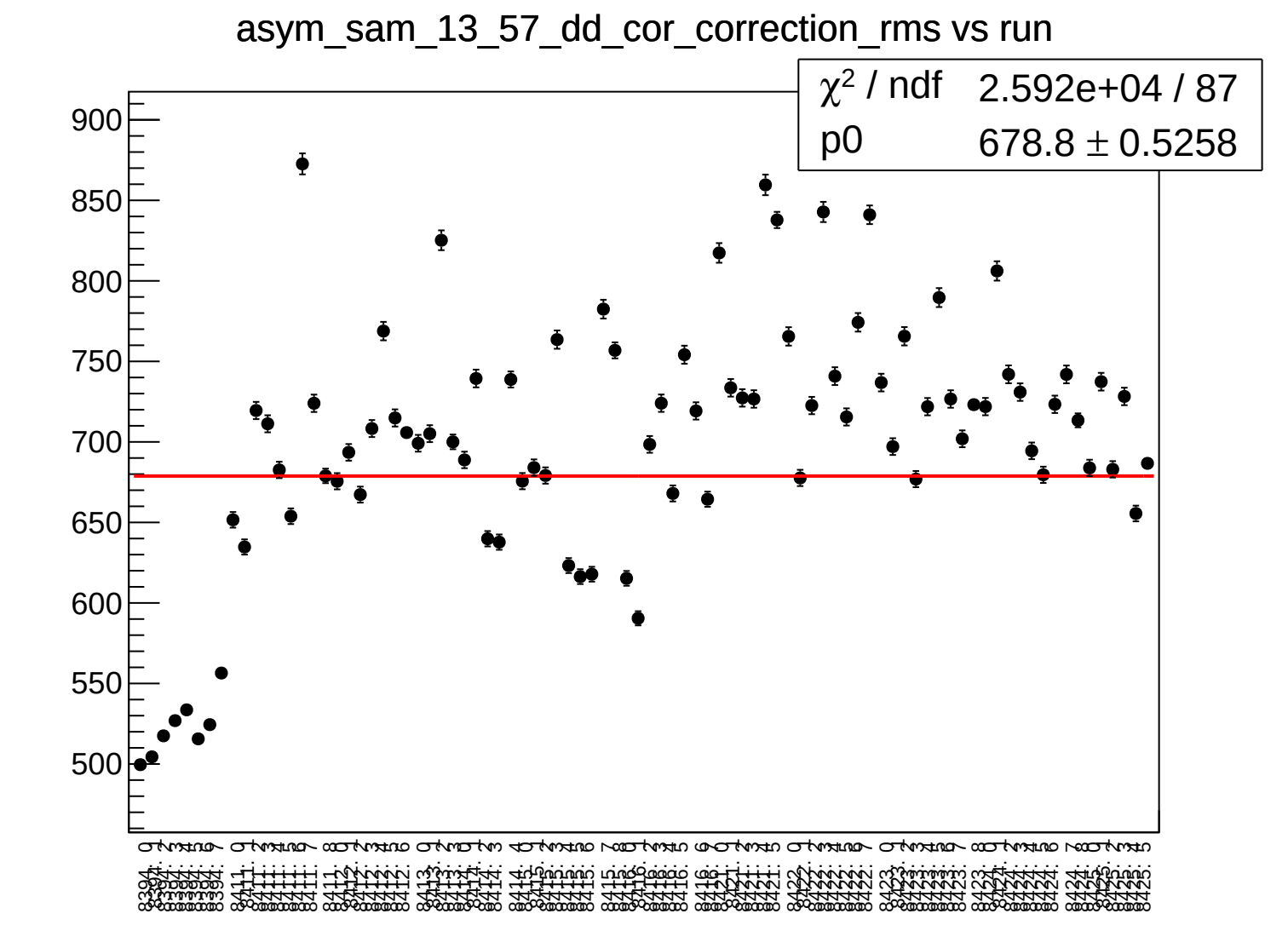

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 77.55 / 87
p0 136.1 ± 74.38
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 356
Std Dev 0
3
2
1
0
−1
−2

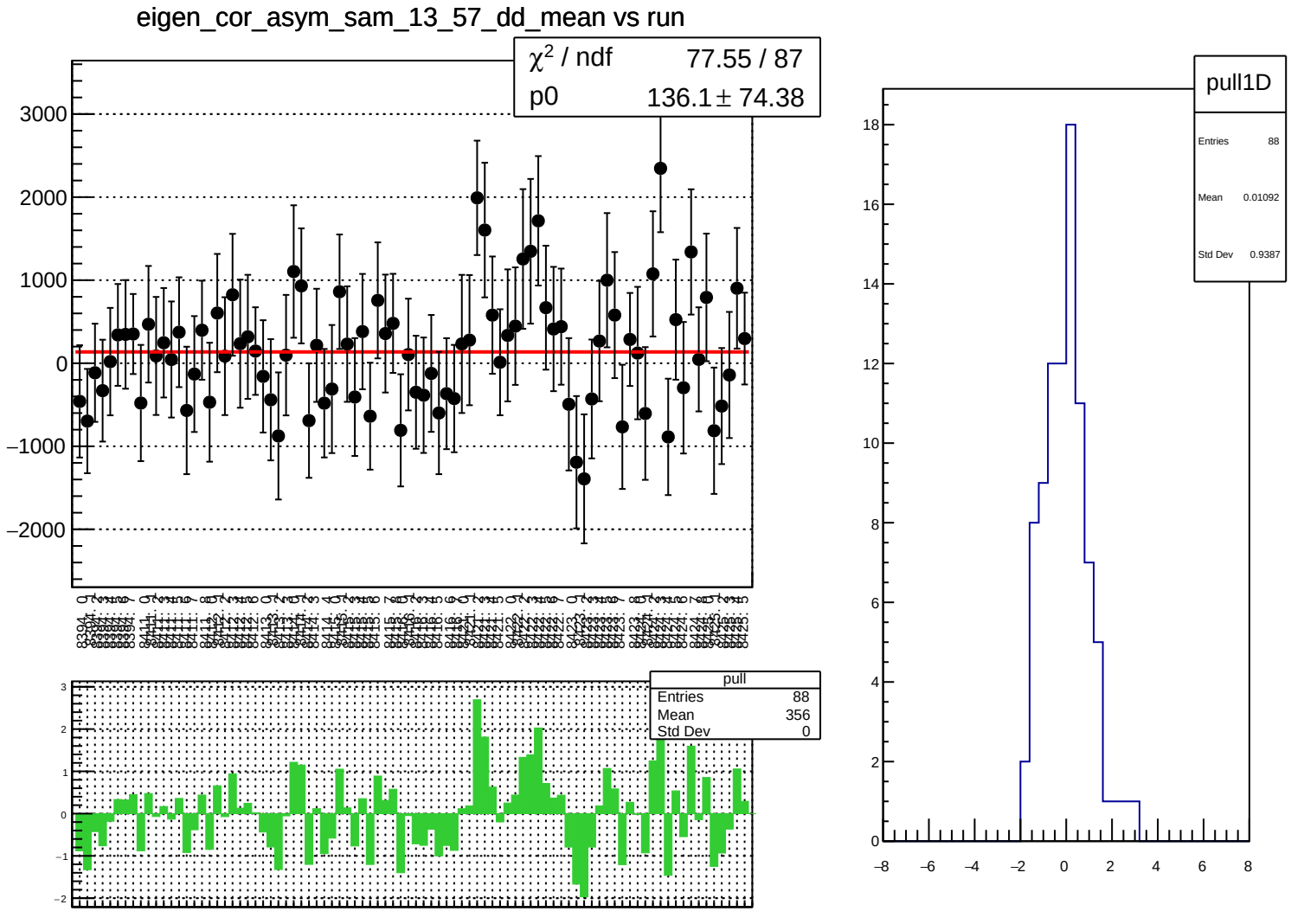

pull1D
Entries 88
Mean 0.01092
Std Dev 0.9387
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

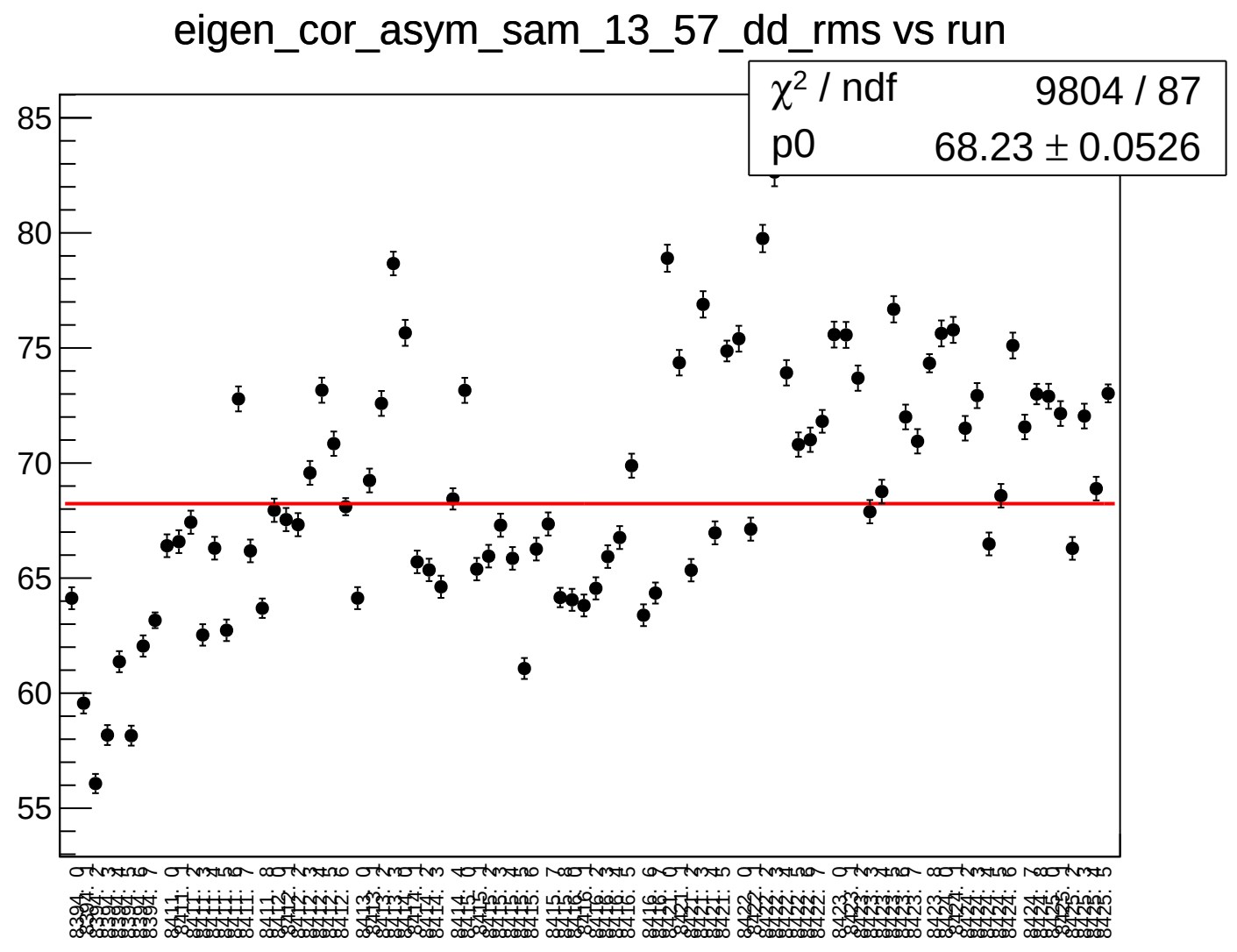

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 9804 / 87
p0 68.23 ± 0.0526
85
80
75
70
65
60
55

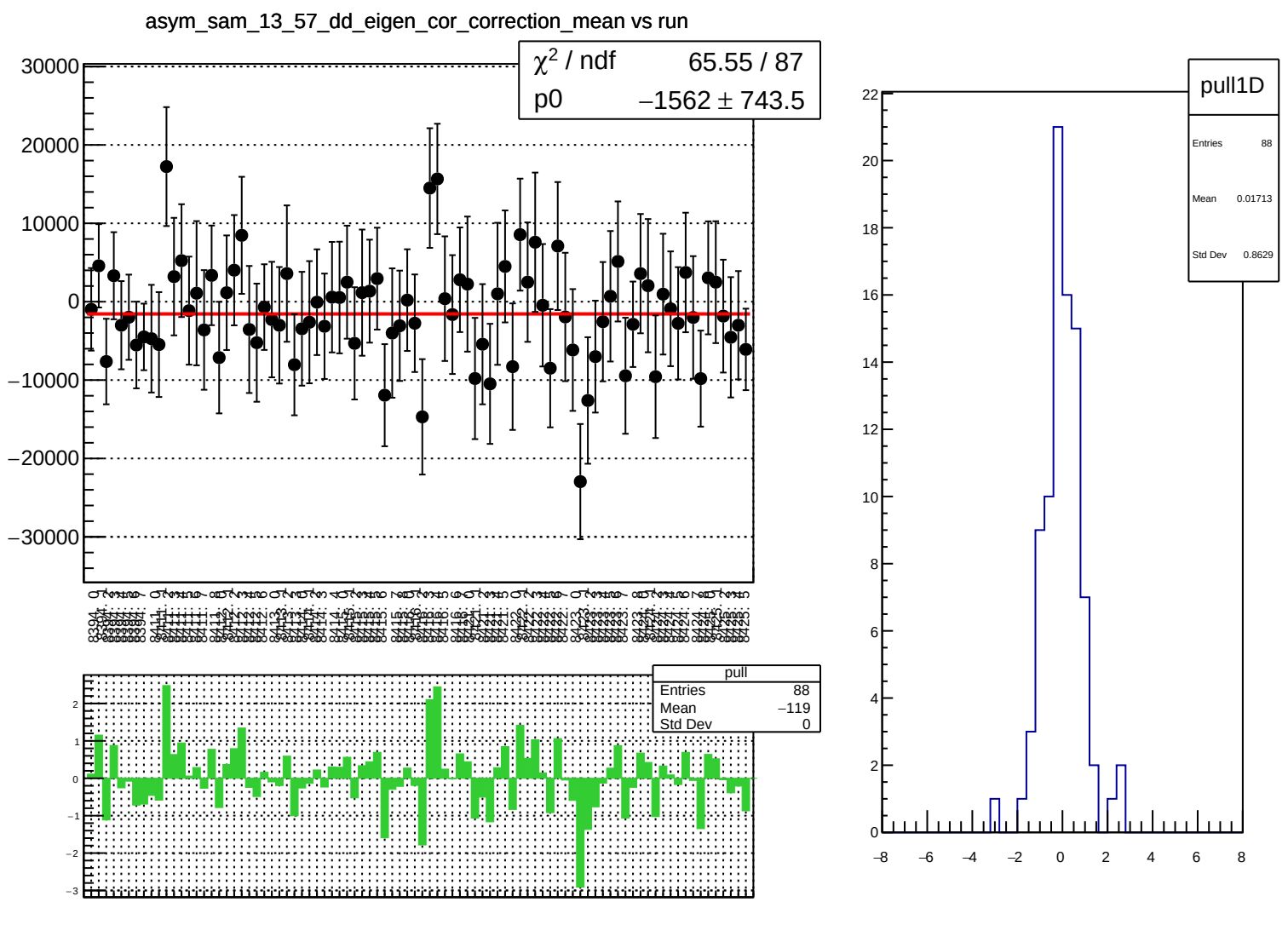

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 65.55 / 87
p0 −1562 ± 743.5
pull
Entries 88
Mean −119
Std Dev 0

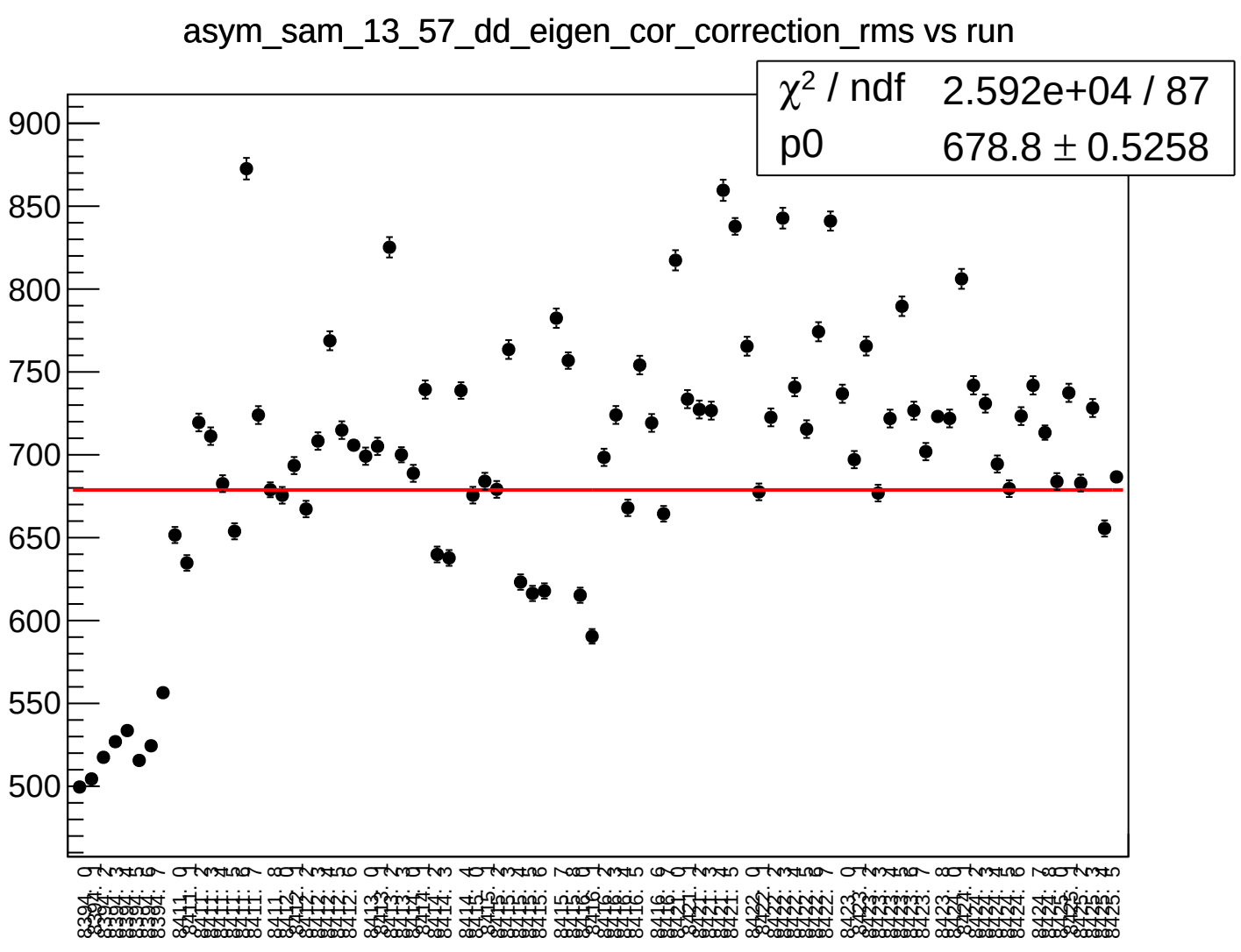

pull1D
Entries 88
Mean 0.01713
Std Dev 0.8629

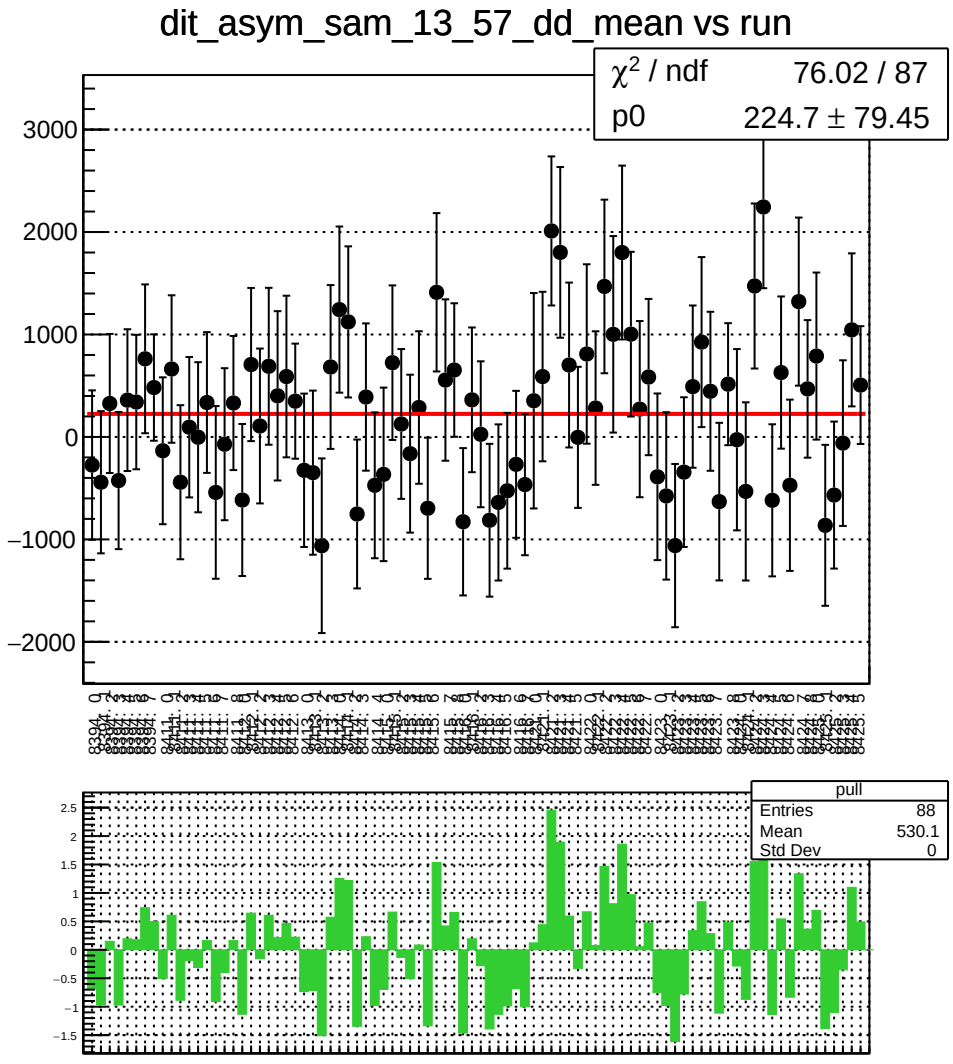

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 2.592e+04 / 87
p0 678.8 ± 0.5258
900
850
800
750
700
650
600
550
500

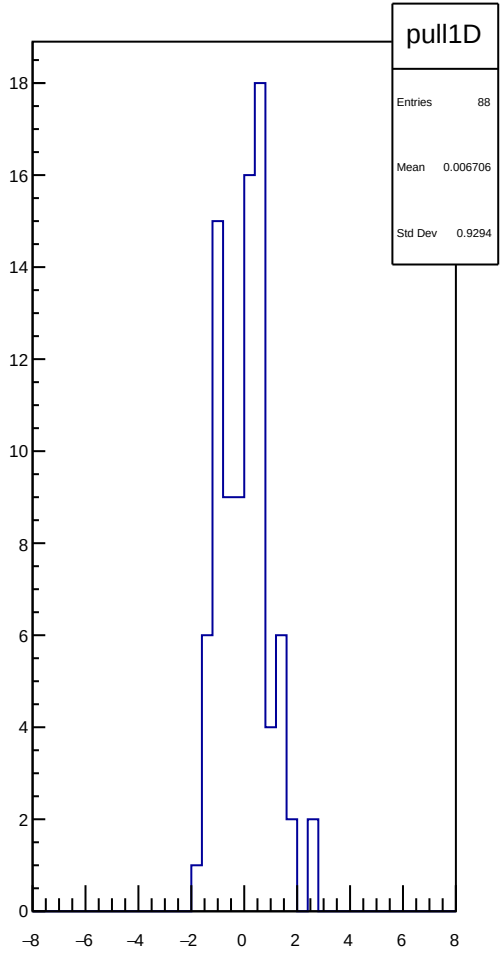

eigen_cor_asym_sam_13_57_dd_mean vs run
χ^2 / ndf 77.55 / 87
p0 136.1 ± 74.38
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 356
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01092
Std Dev 0.9387
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

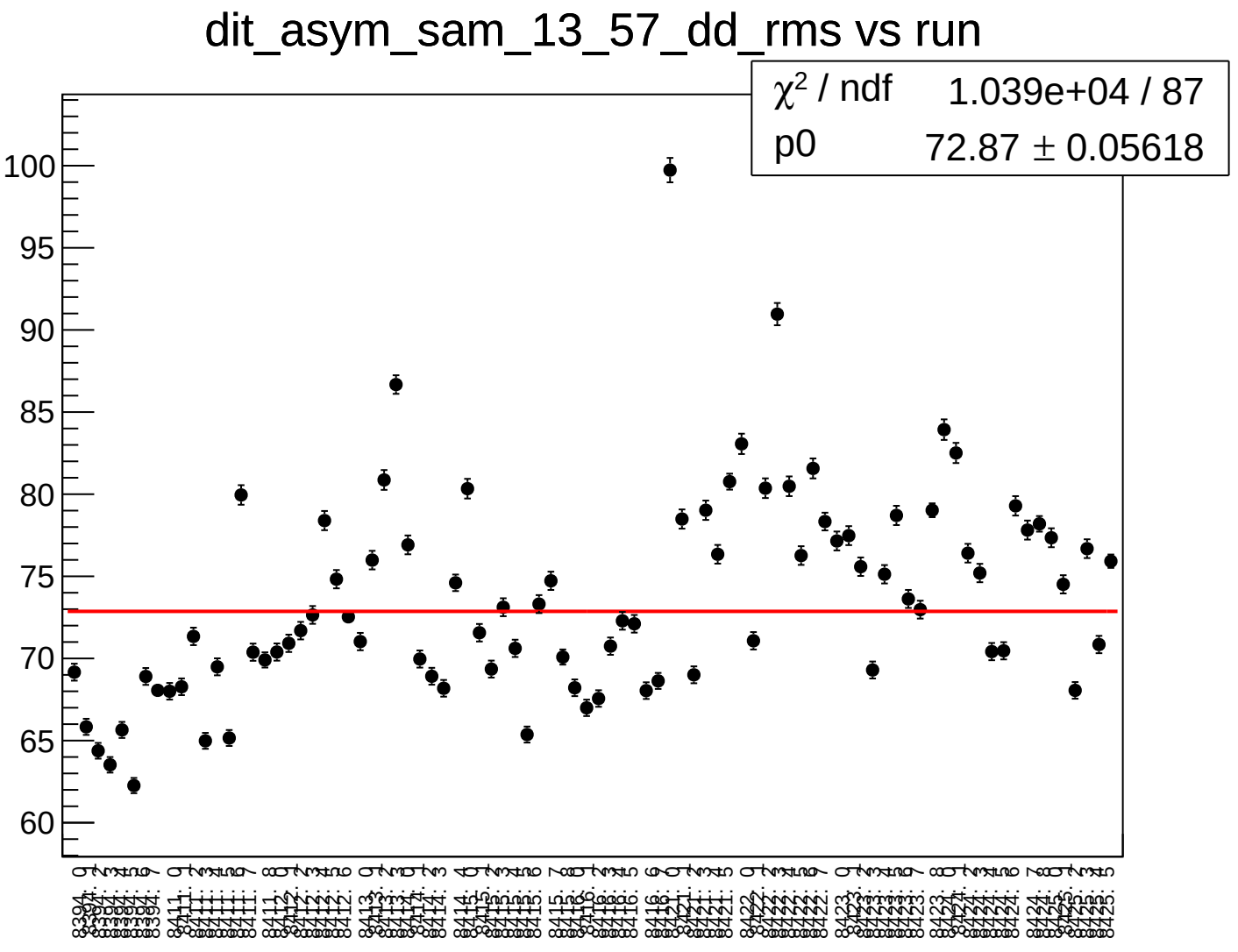

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 9804 / 87
p0 68.23 ± 0.0526
85
80
75
70
65
60
55

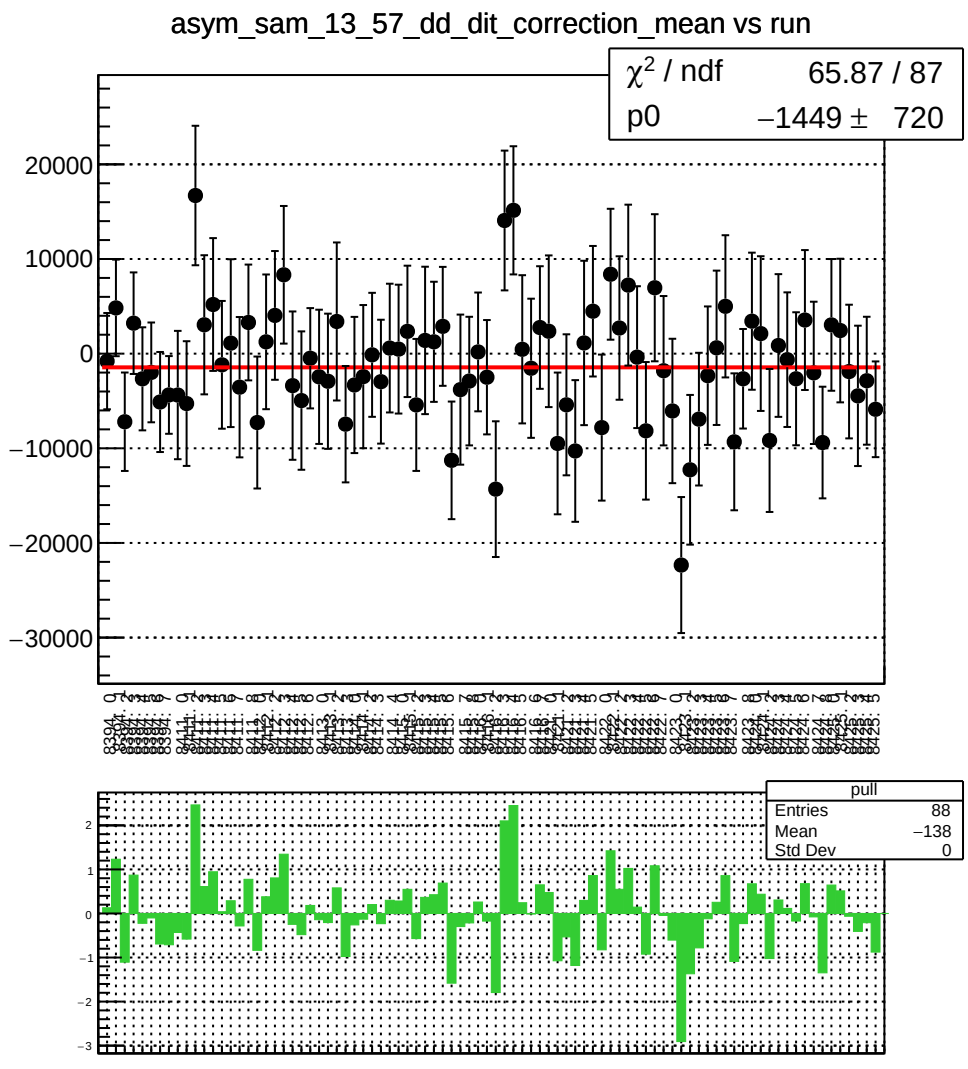

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 65.55 / 87
p0 −1562 ± 743.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −119
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.01713
Std Dev 0.8629
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

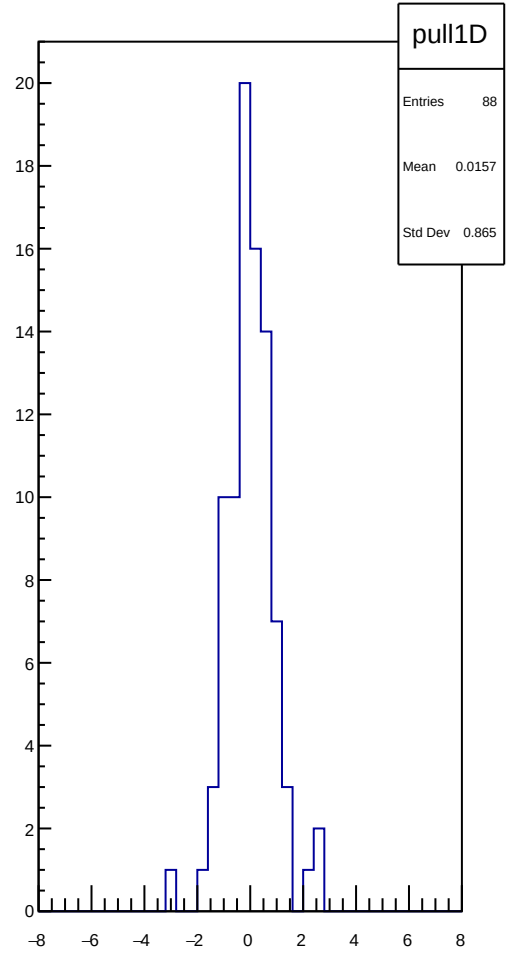

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.592e+04 / 87
p0 678.8 ± 0.5258
900
850
800
750
700
650
600
550
500

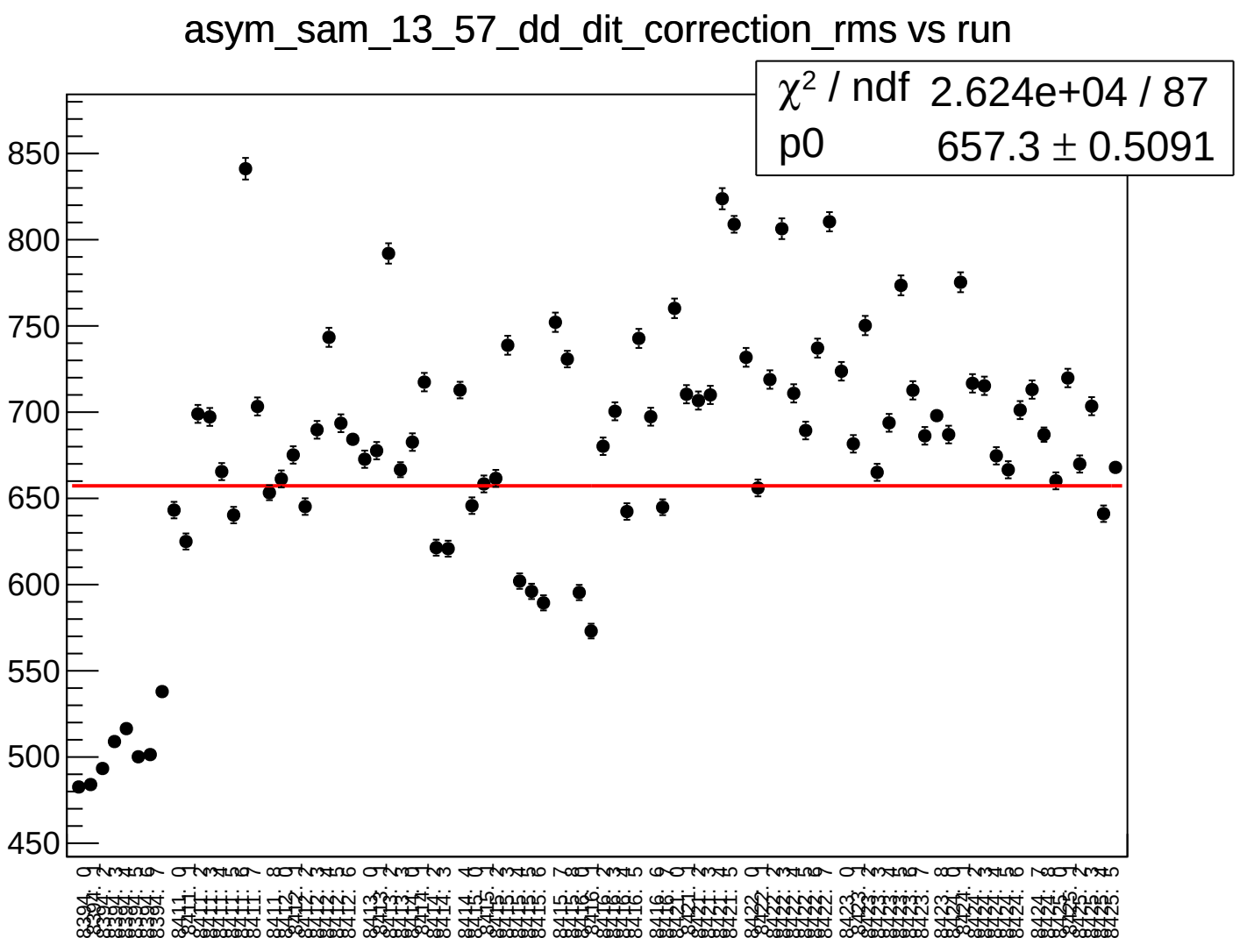

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 76.02 / 87
p0 224.7 ± 79.45
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 530.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

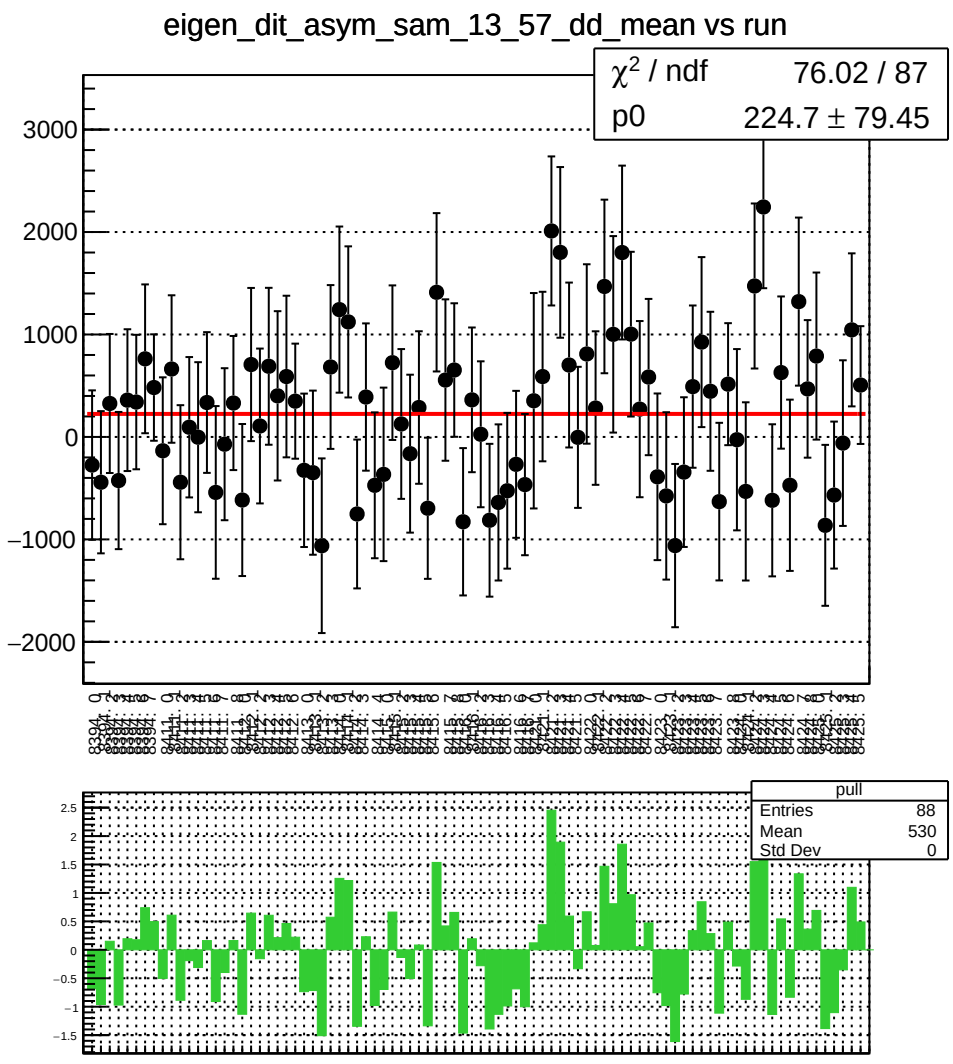

pull1D
Entries 88
Mean 0.006706
Std Dev 0.9294
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

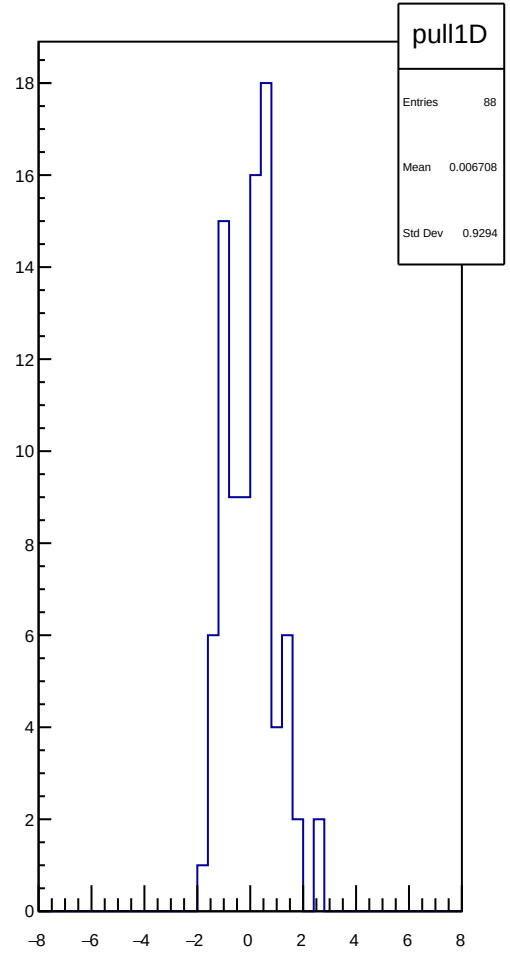

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.039e+04 / 87
p0 72.87 ± 0.05618
100
95
90
85
80
75
70
65
60

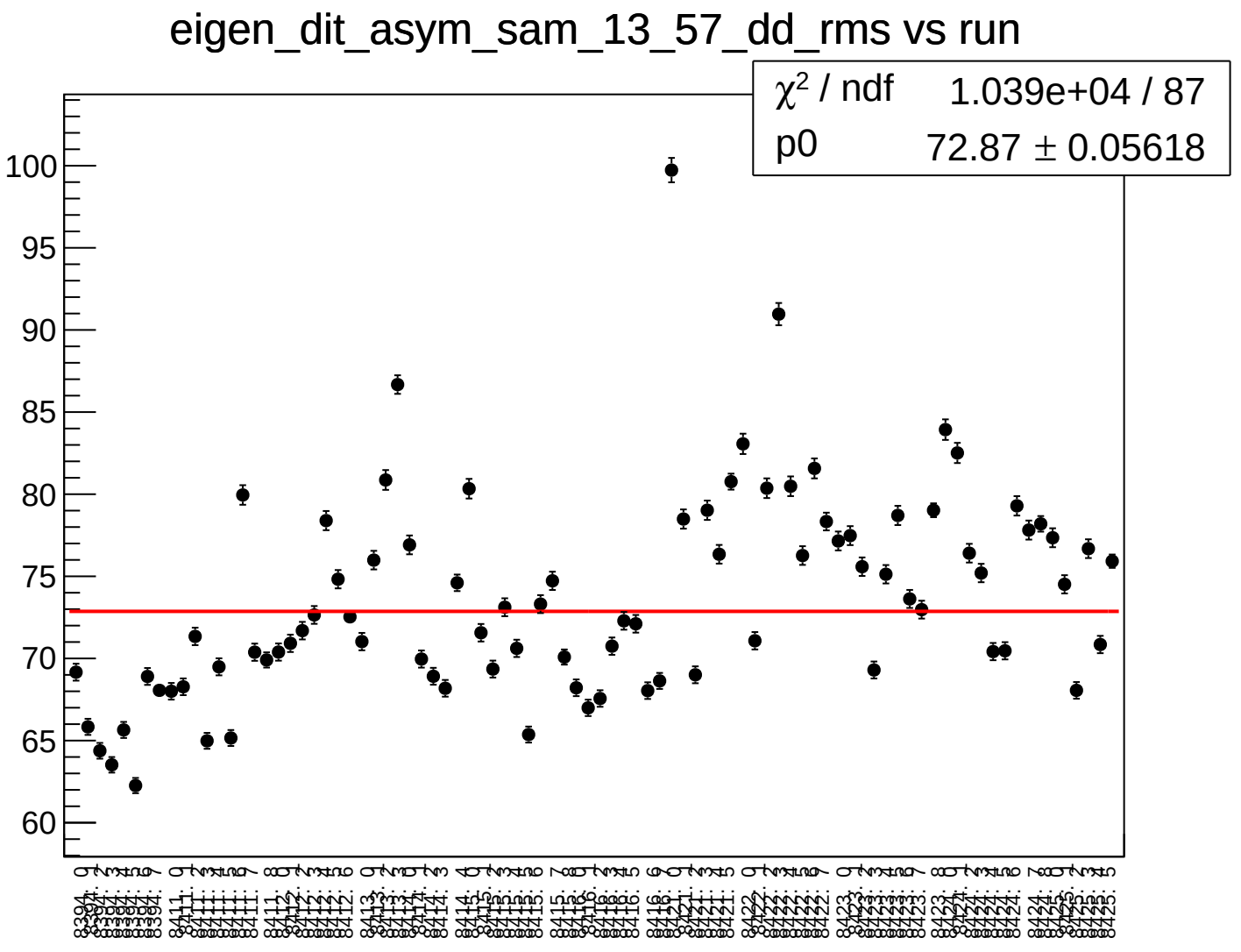

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 65.87 / 87
p0 −1449 ± 720
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −138
Std Dev 0
2
1
0
−1
−2
−3

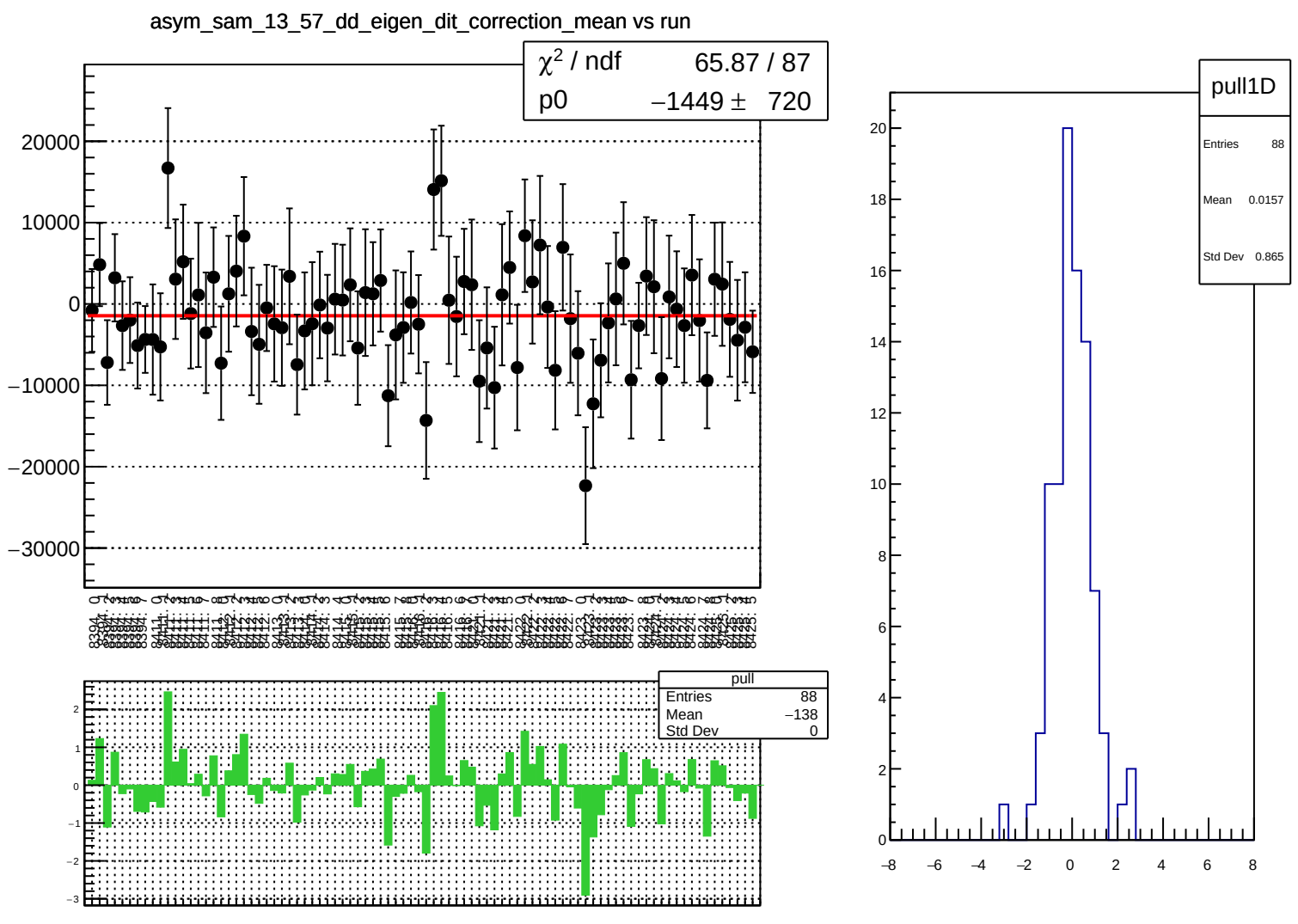

pull1D
Entries 88
Mean 0.0157
Std Dev 0.865
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

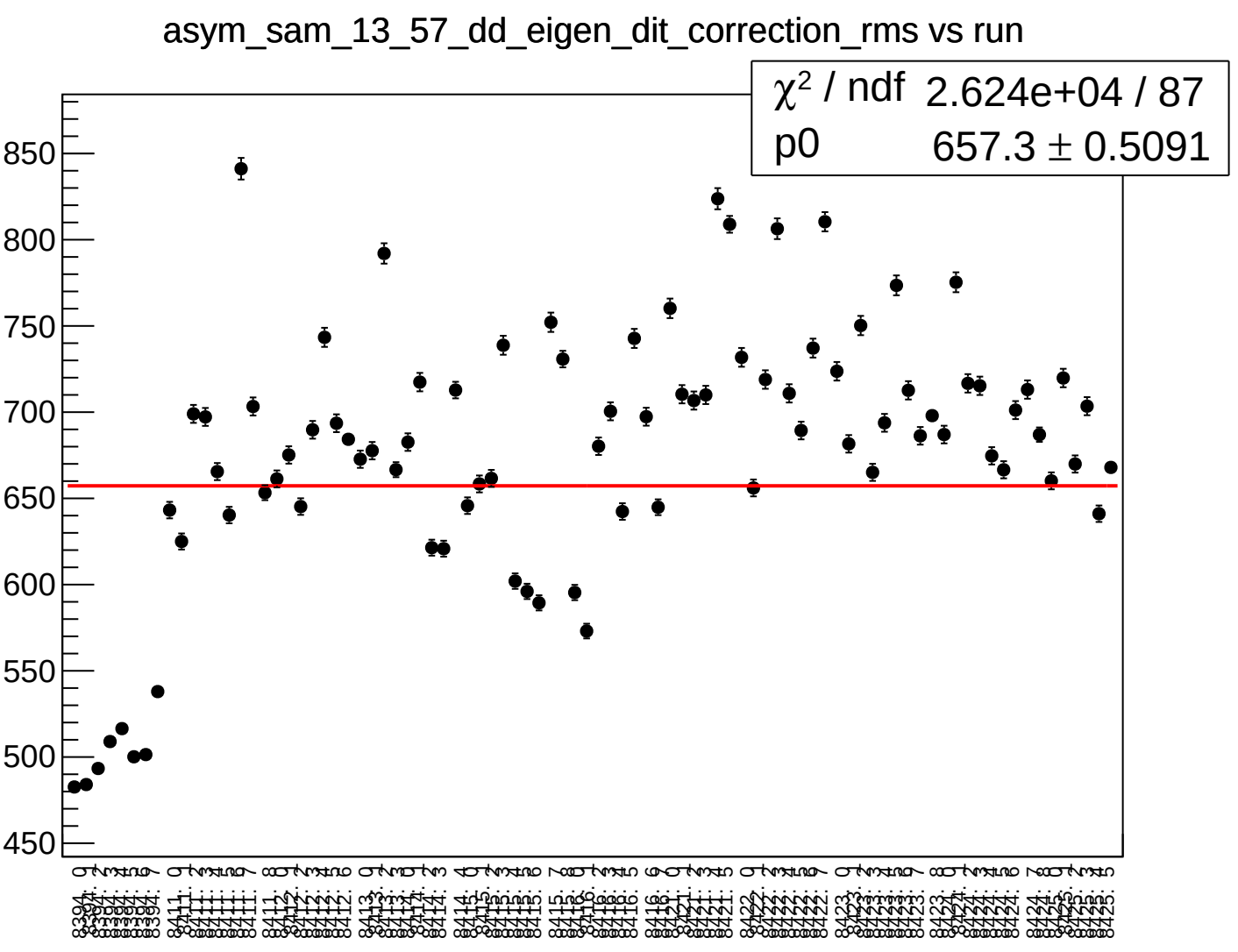

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 2.624e+04 / 87
p0 657.3 ± 0.5091
850
800
750
700
650
600
550
500
450

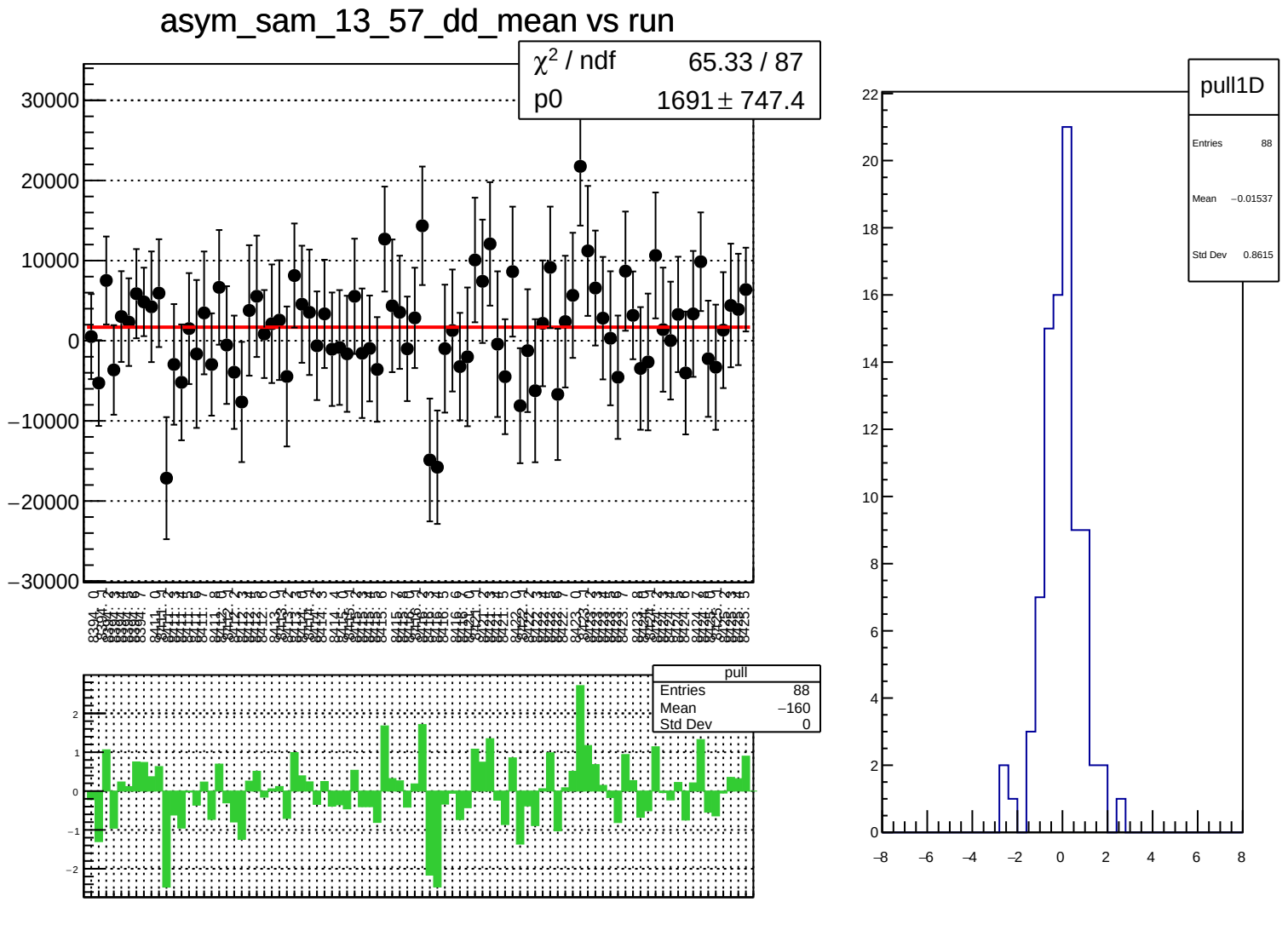

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 76.02 / 87
p0 224.7 ± 79.45
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 530
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

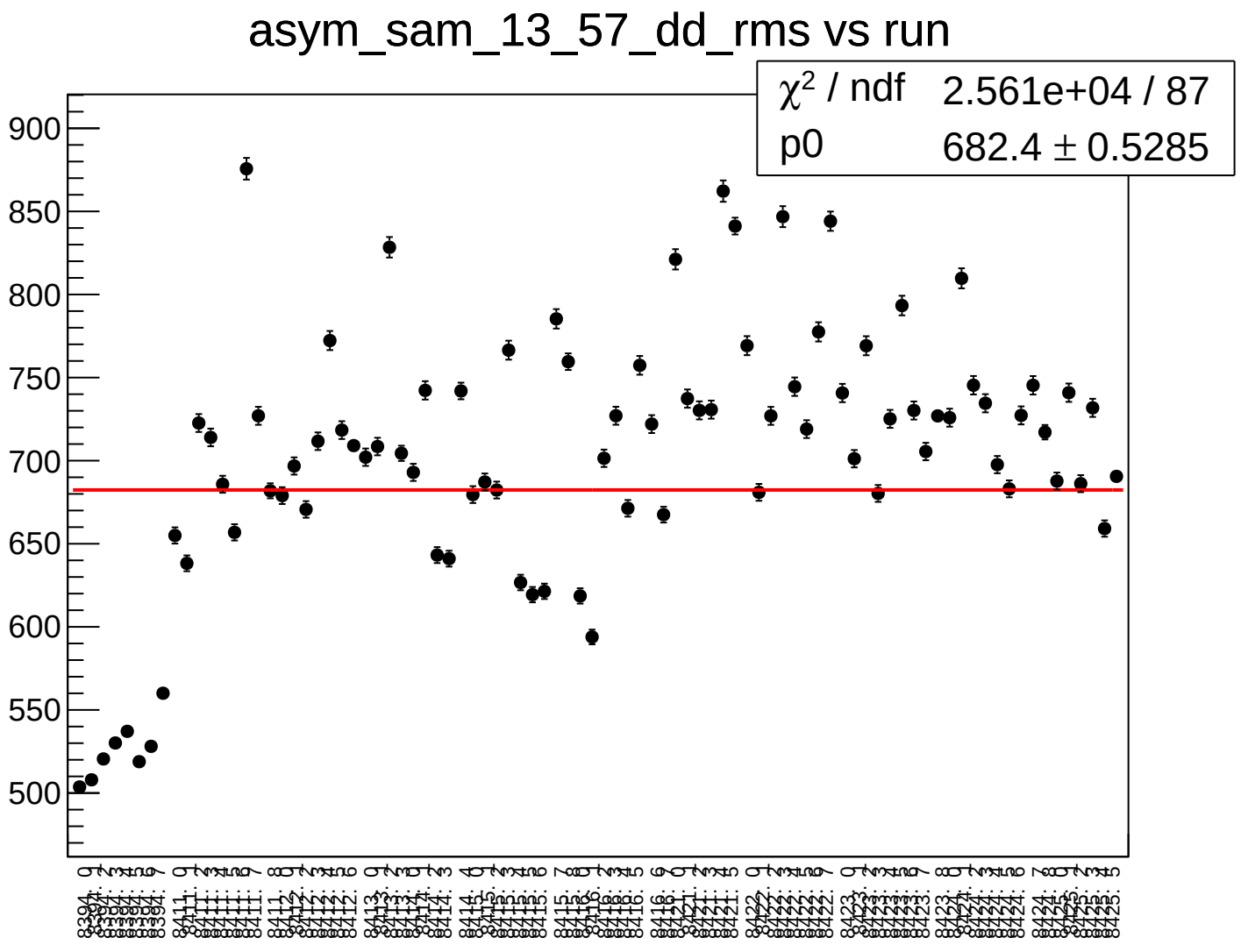

pull1D
Entries 88
Mean 0.006708
Std Dev 0.9294
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

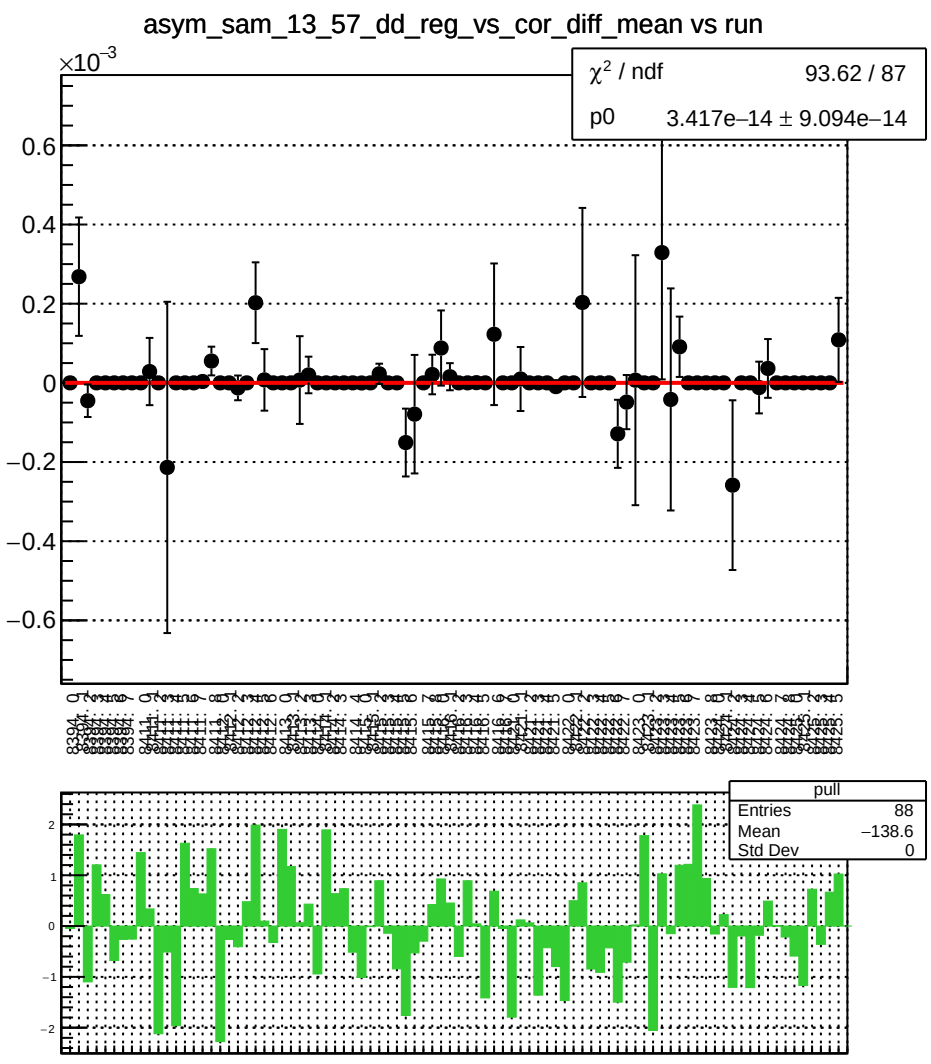

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.039e+04 / 87
p0 72.87 ± 0.05618
100
95
90
85
80
75
70
65
60

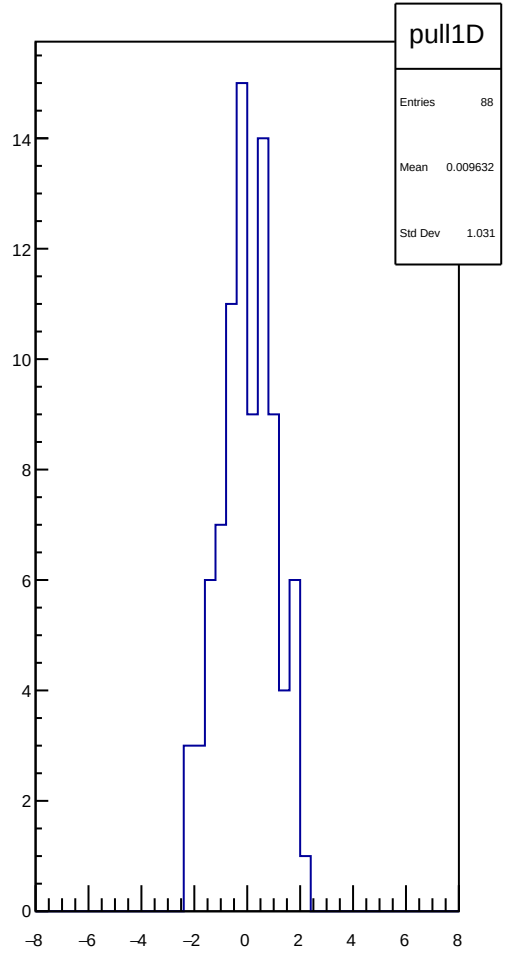

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 65.87 / 87
p0 −1449 ± 720
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −138
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.0157
Std Dev 0.865
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

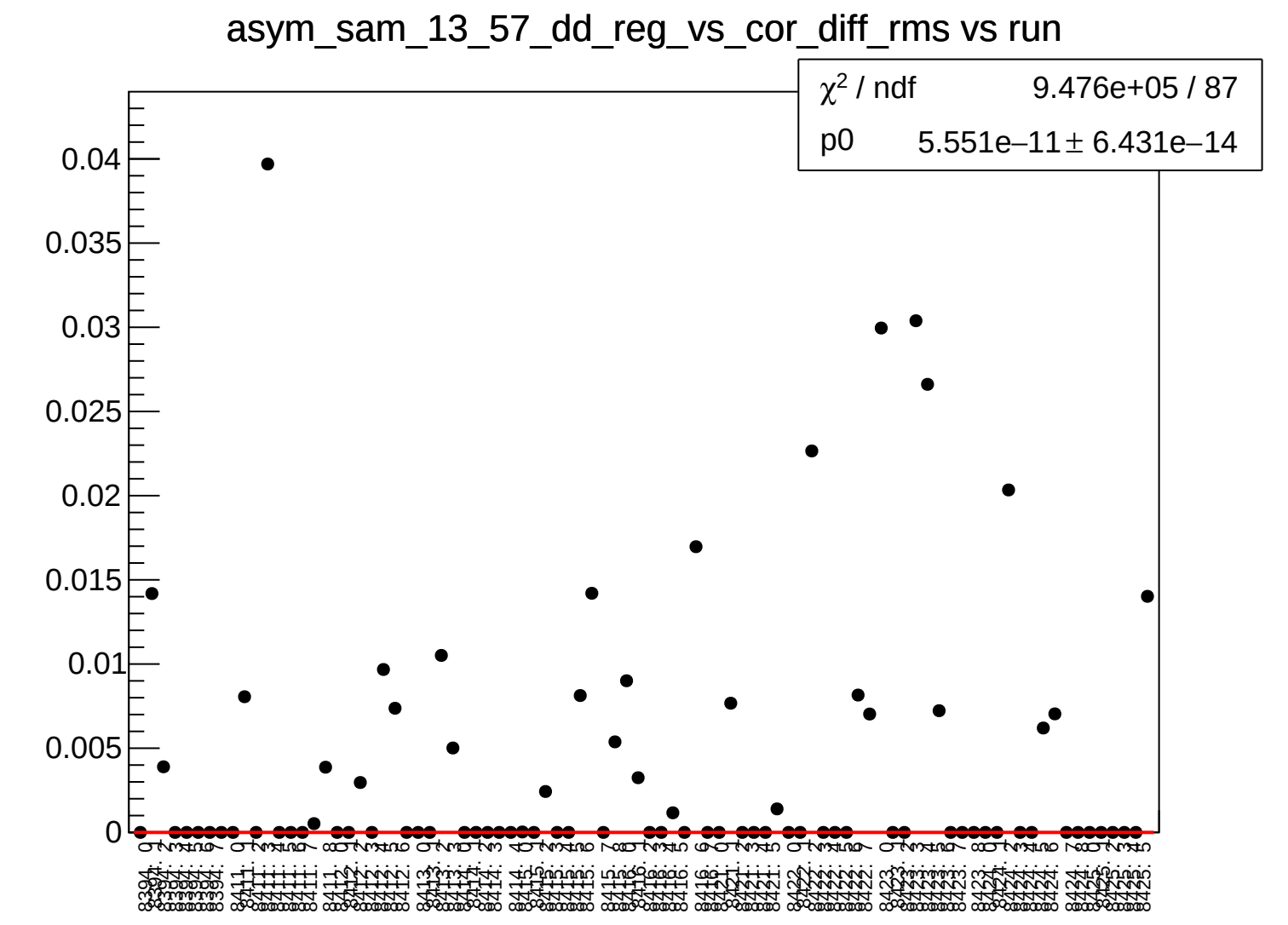

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.624e+04 / 87
p0 657.3 ± 0.5091
850
800
750
700
650
600
550
500
450

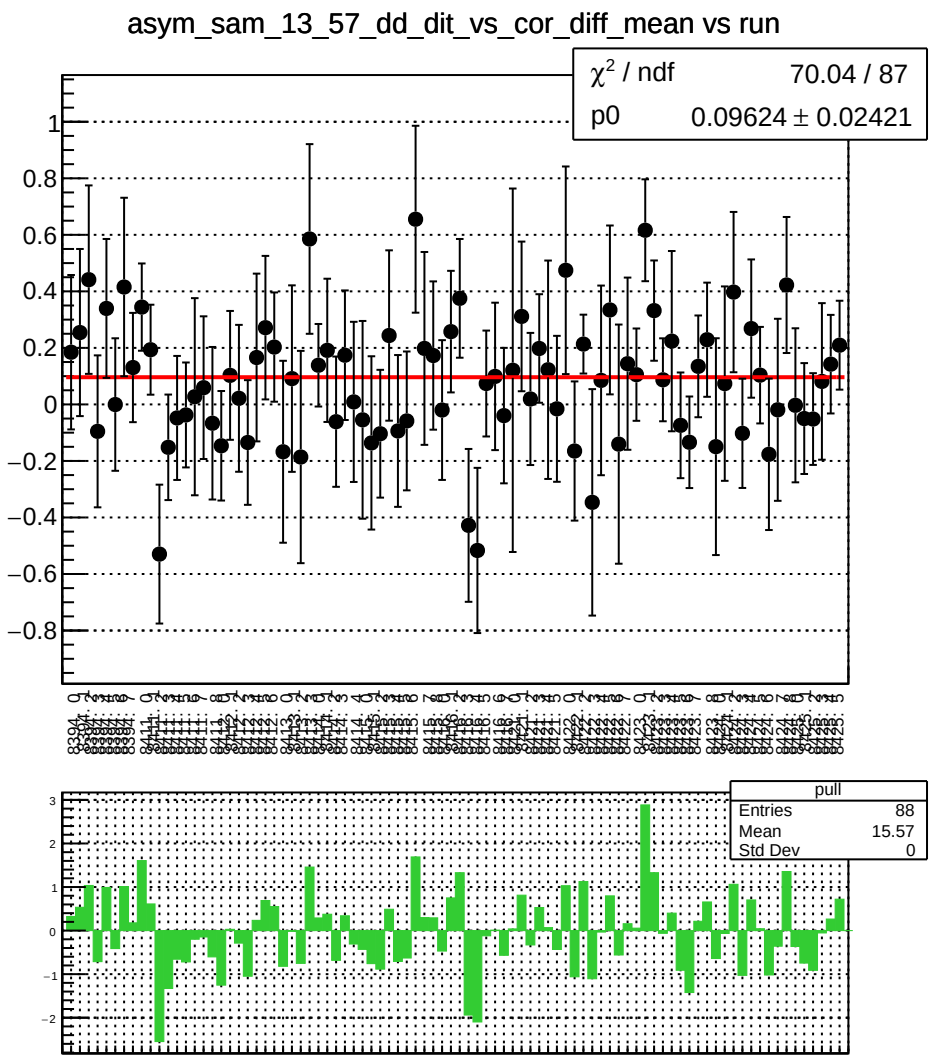

asym_sam_13_57_dd_mean vs run
χ² / ndf 65.33 / 87
p0 1691 ± 747.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −160
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01537
Std Dev 0.8615
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

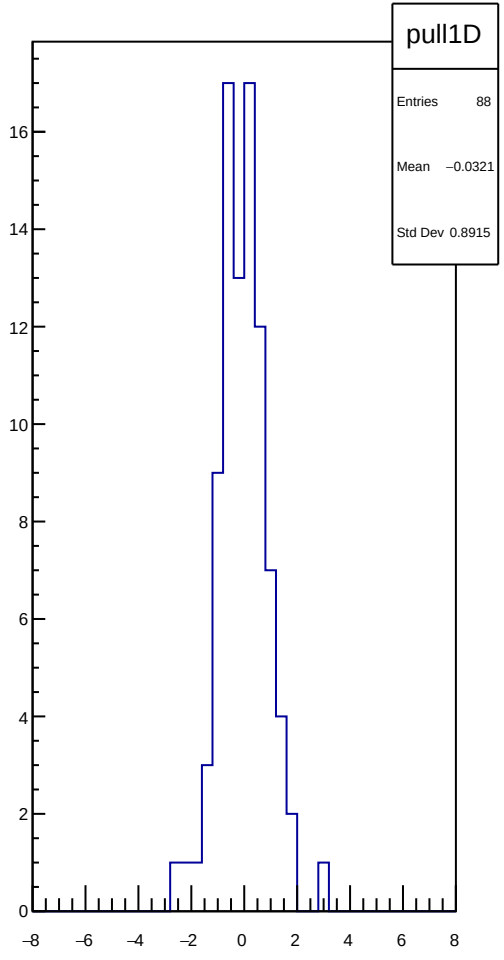

asym_sam_13_57_dd_rms vs run
χ^2 / ndf 2.561e+04 / 87
p0 682.4 ± 0.5285
900
850
800
750
700
650
600
550
500

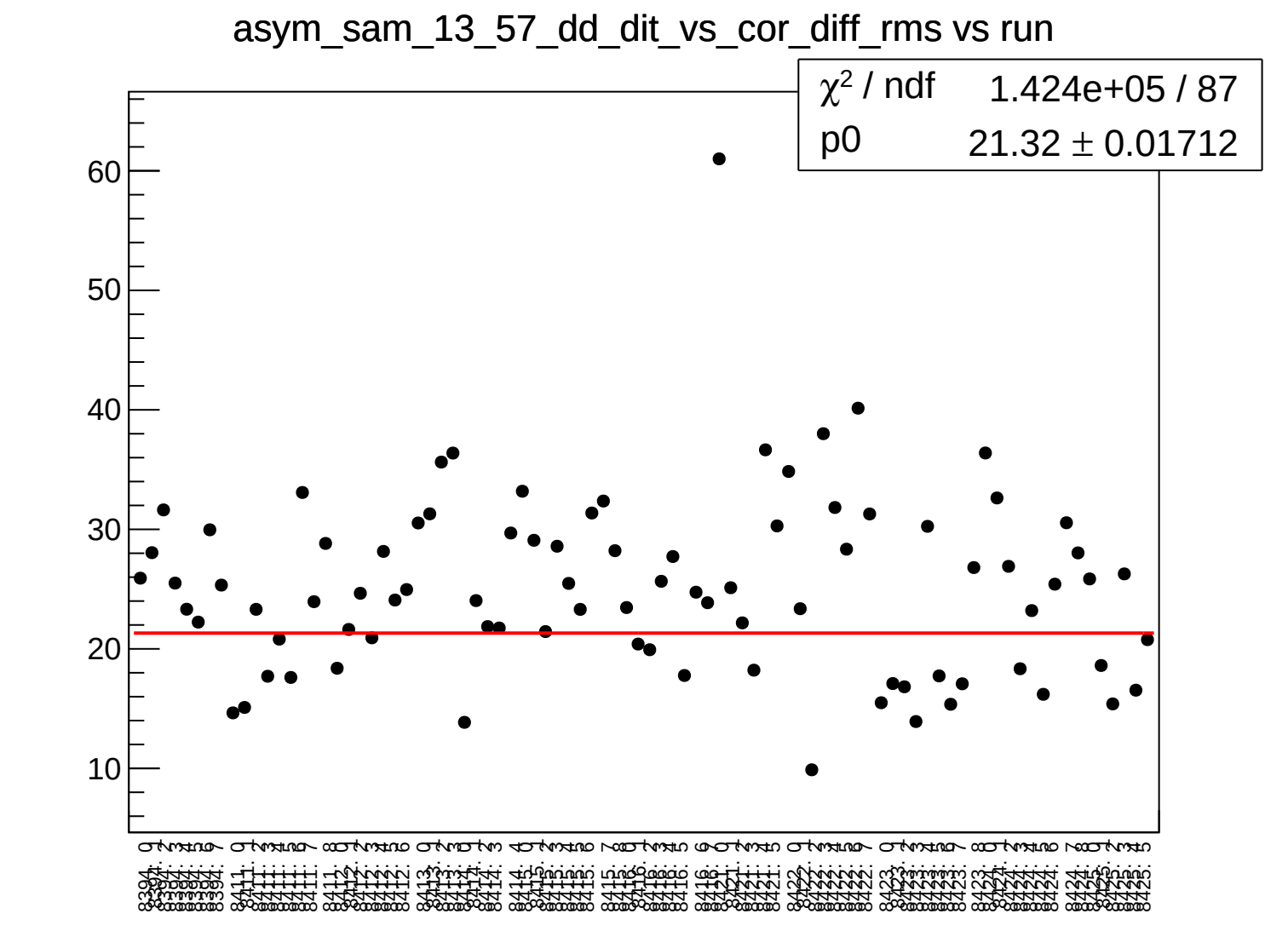

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 93.62 / 87
p0 3.417e−14 ± 9.094e−14
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 88
Mean −138.6
Std Dev 0
2
1
0
−1
−2

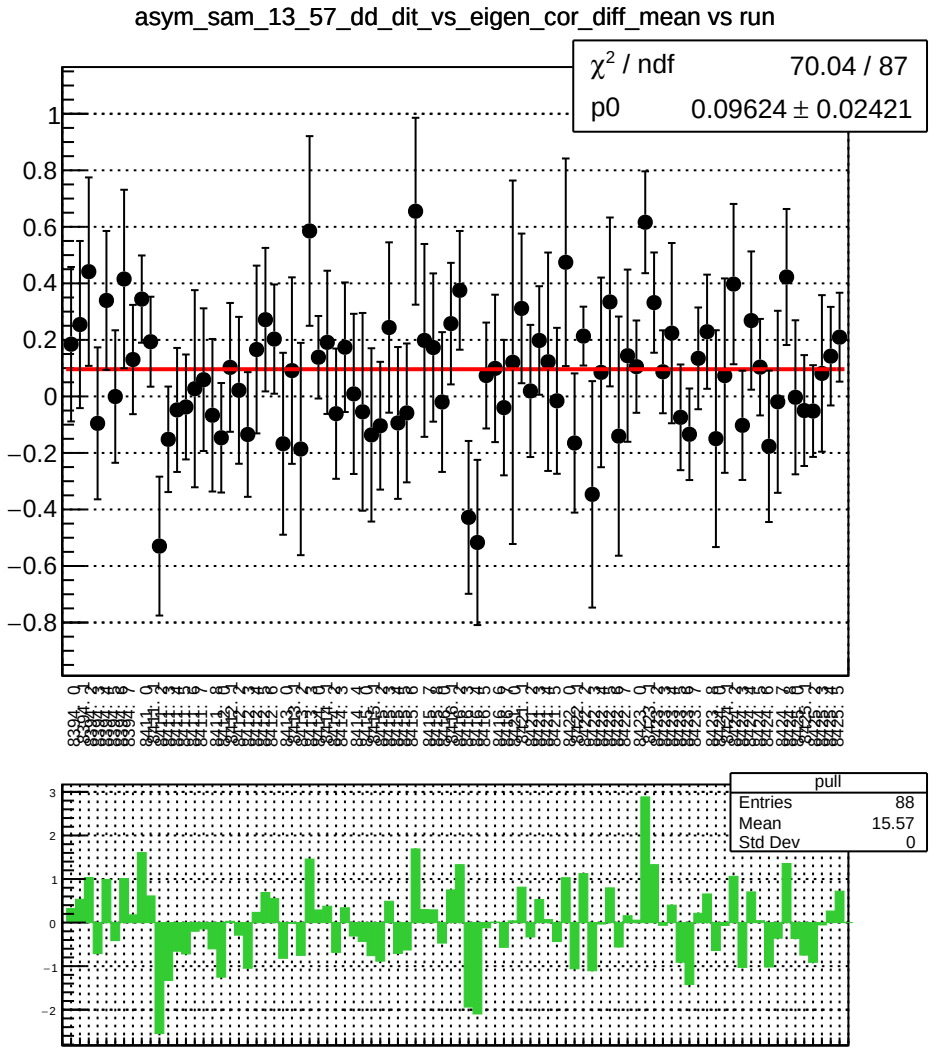

pull1D
Entries 88
Mean 0.009632
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

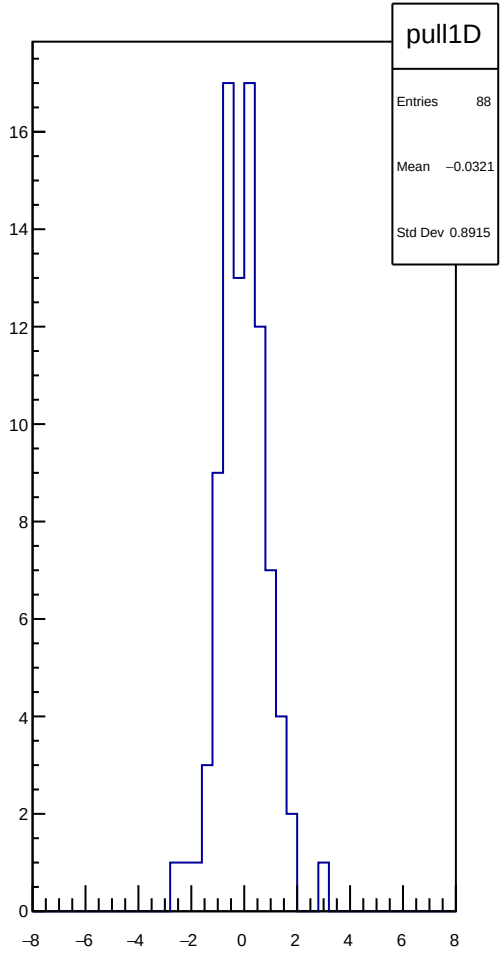

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.476e+05 / 87
p0 5.551e−11 ± 6.431e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

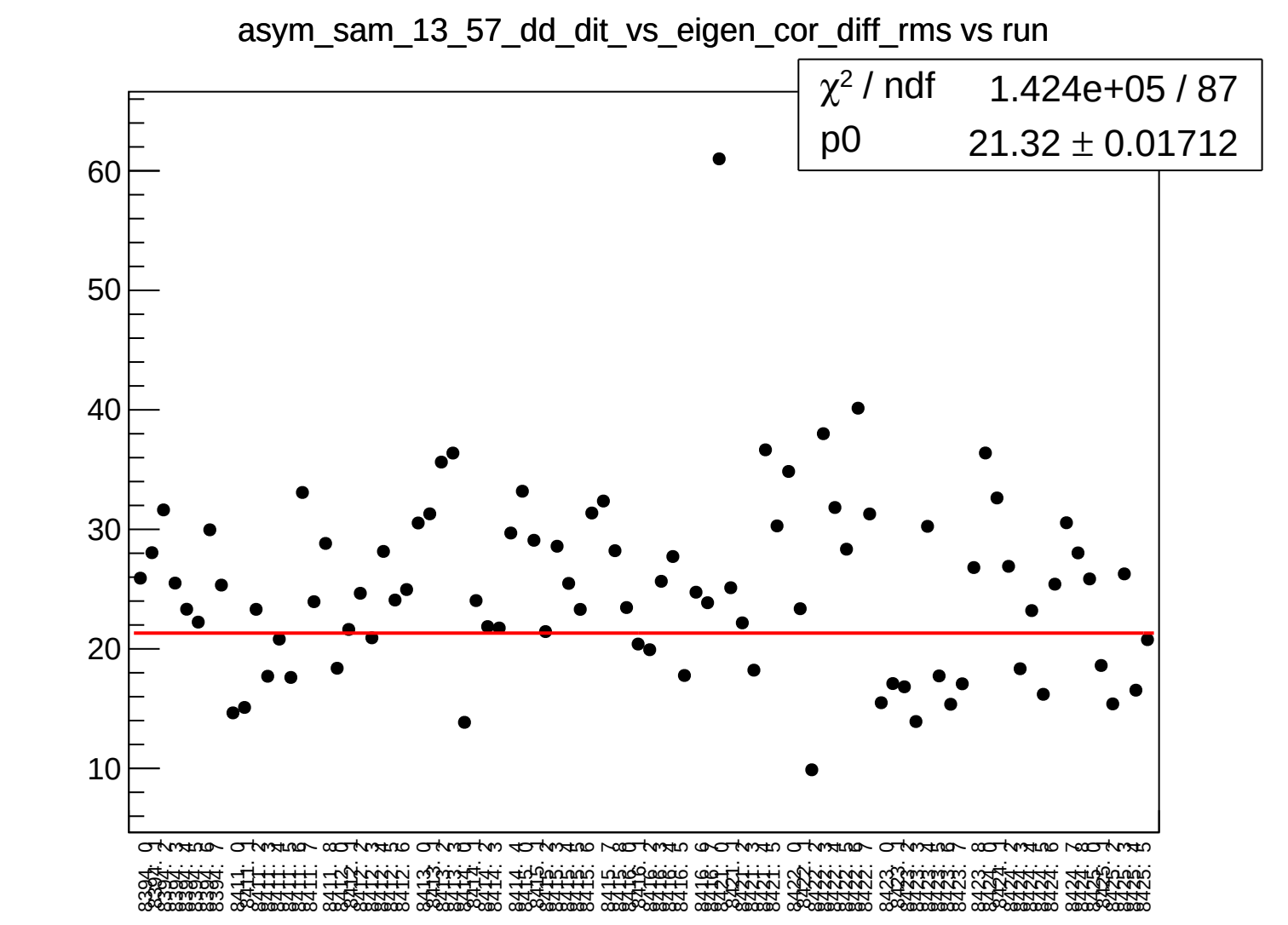

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 70.04 / 87
p0 0.09624 ± 0.02421
pull
Entries 88
Mean 15.57
Std Dev 0

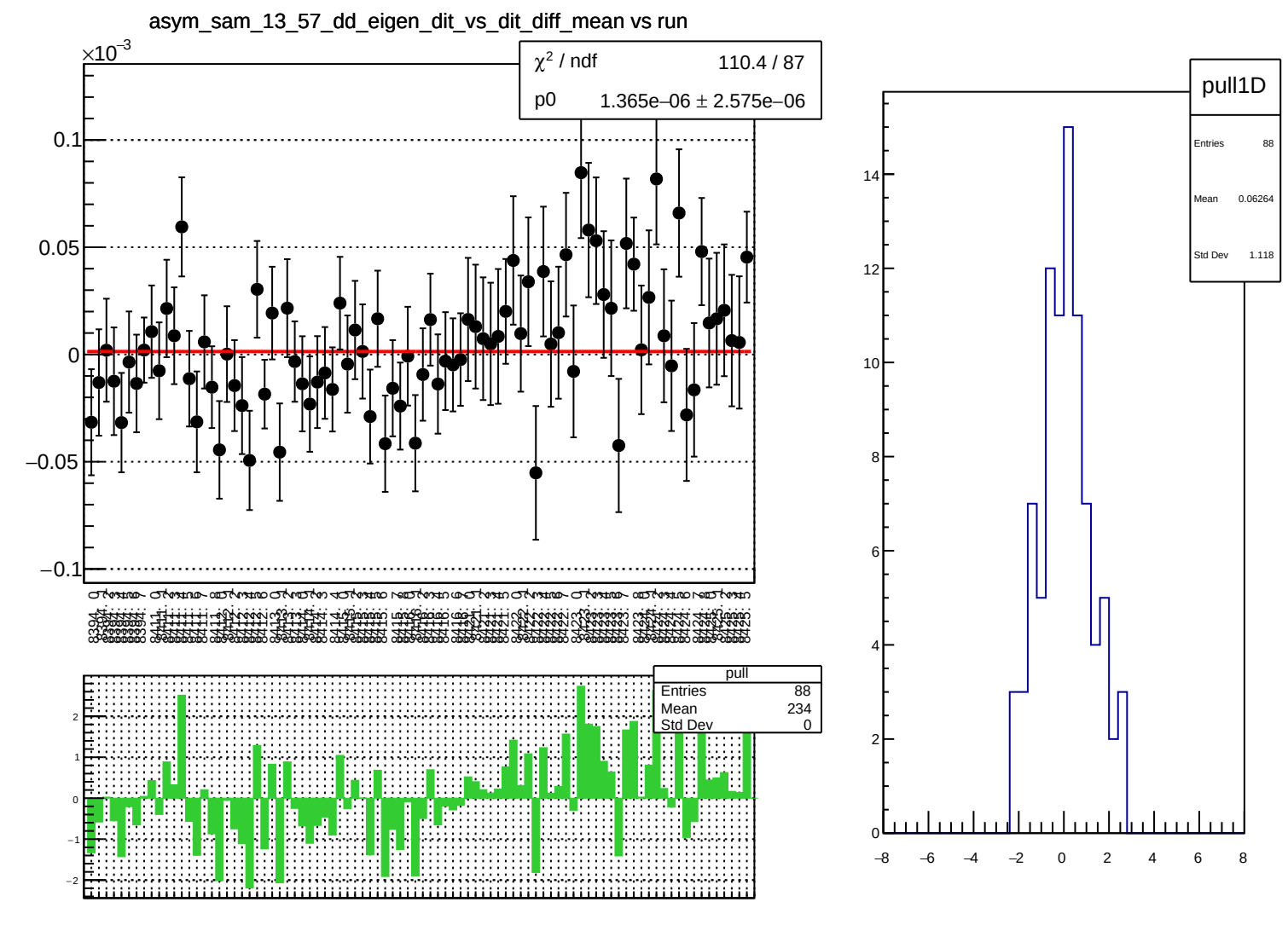

pull1D
Entries 88
Mean −0.0321
Std Dev 0.8915

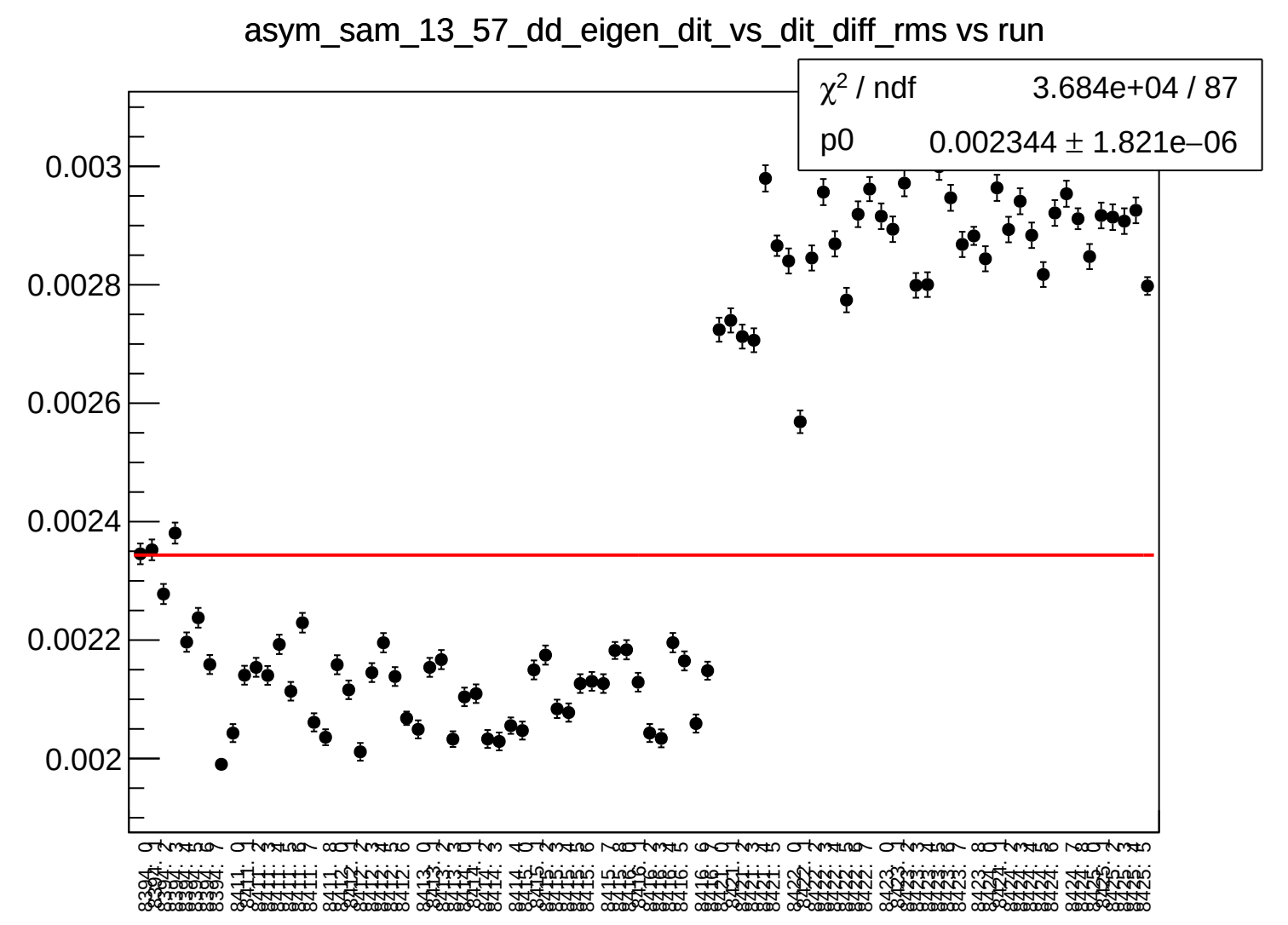

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.424e+05 / 87
p0 21.32 ± 0.01712
60
50
40
30
20
10

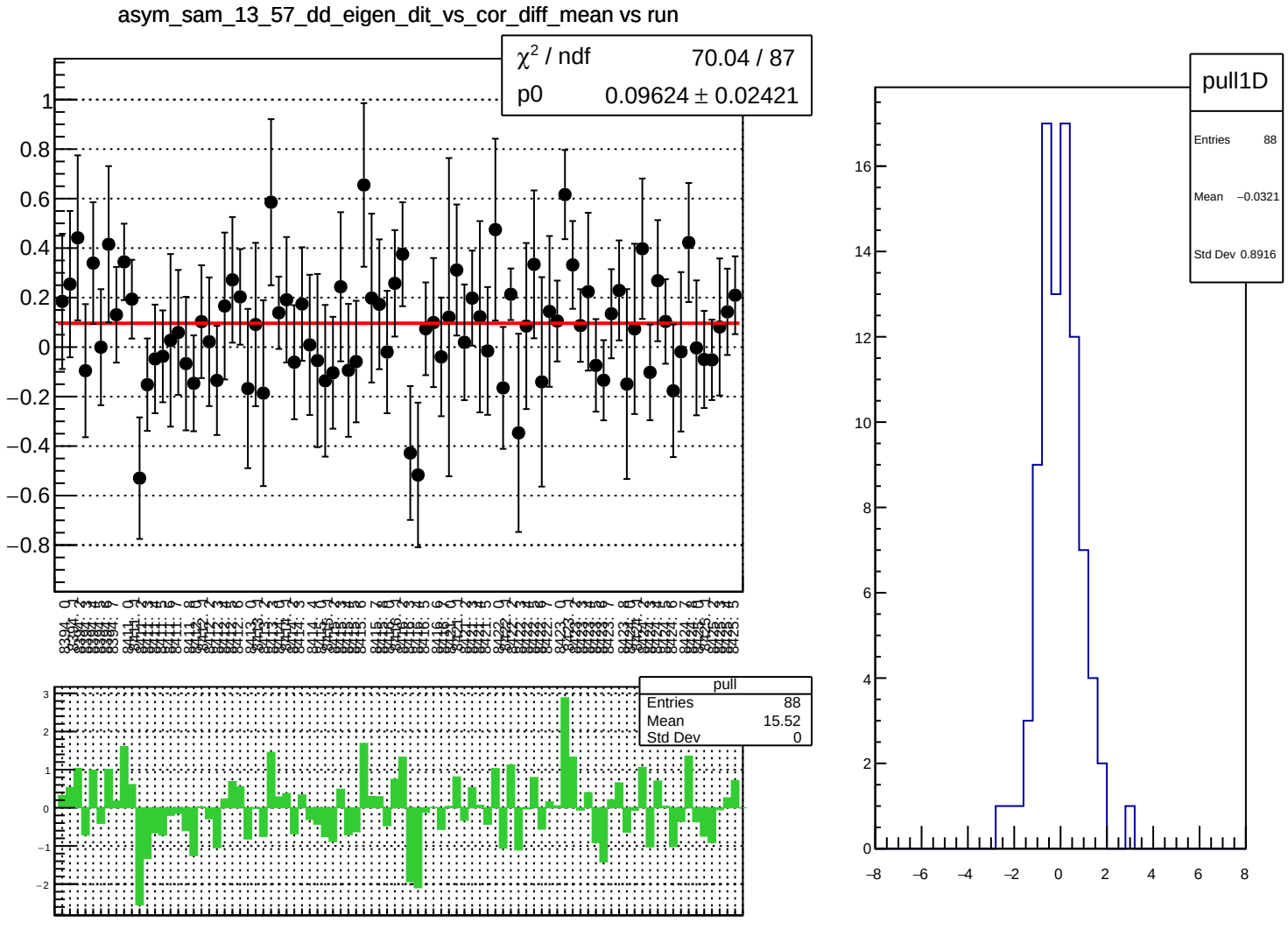

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.04 / 87
p0 0.09624 ± 0.02421
pull
Entries 88
Mean 15.57
Std Dev 0

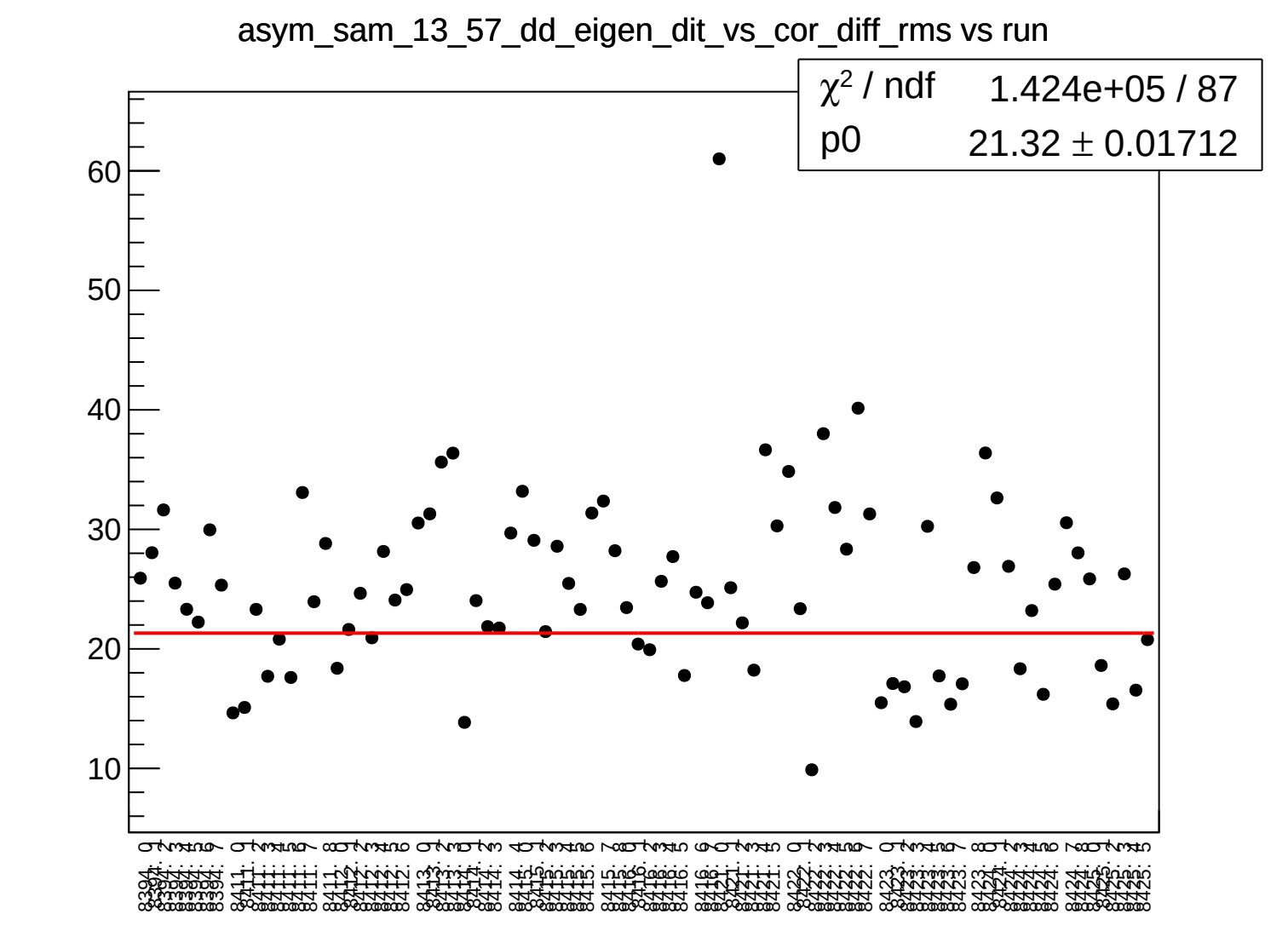

pull1D
Entries 88
Mean −0.0321
Std Dev 0.8915

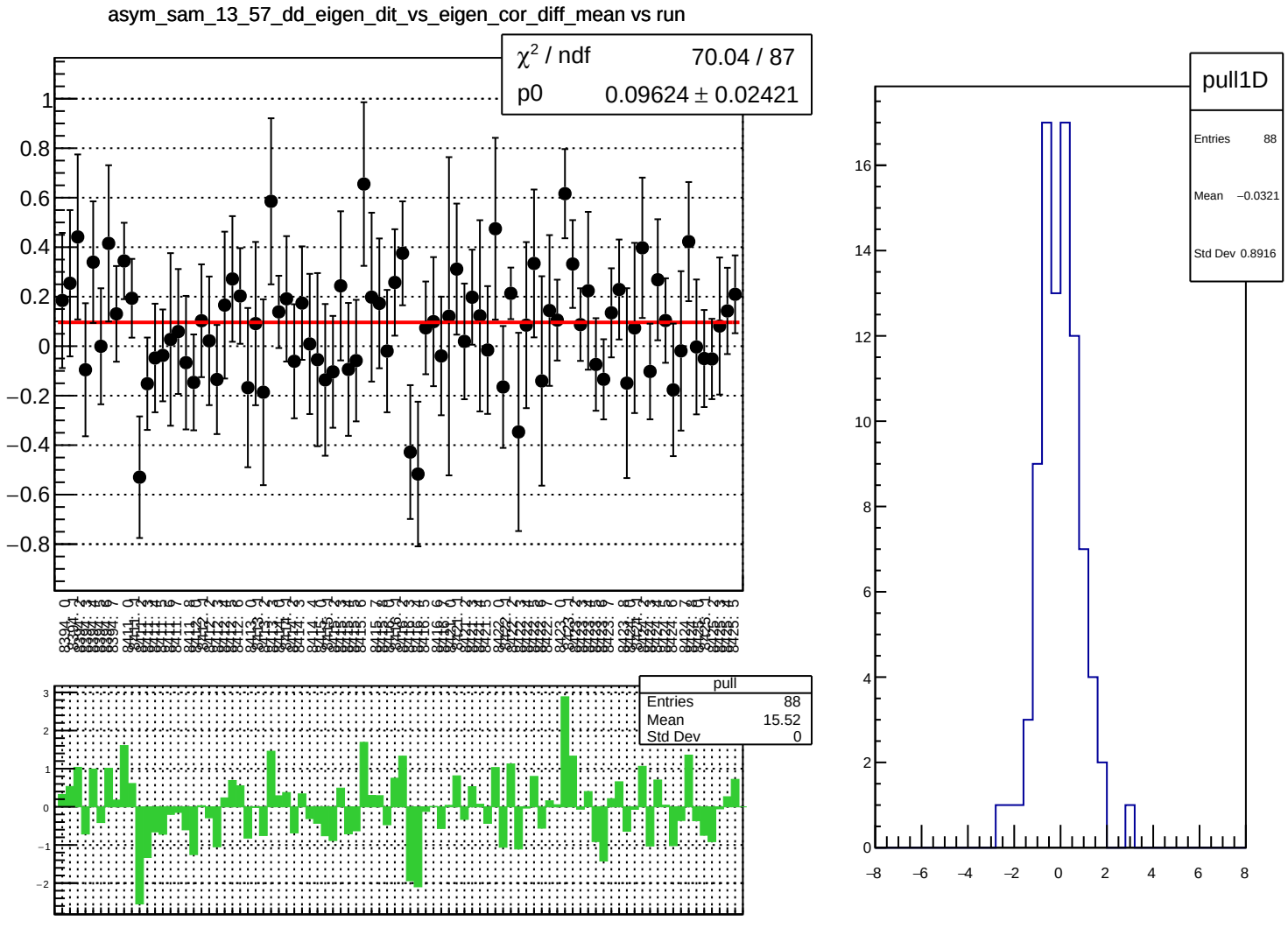

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.424e+05 / 87
p0 21.32 ± 0.01712
60
50
40
30
20
10

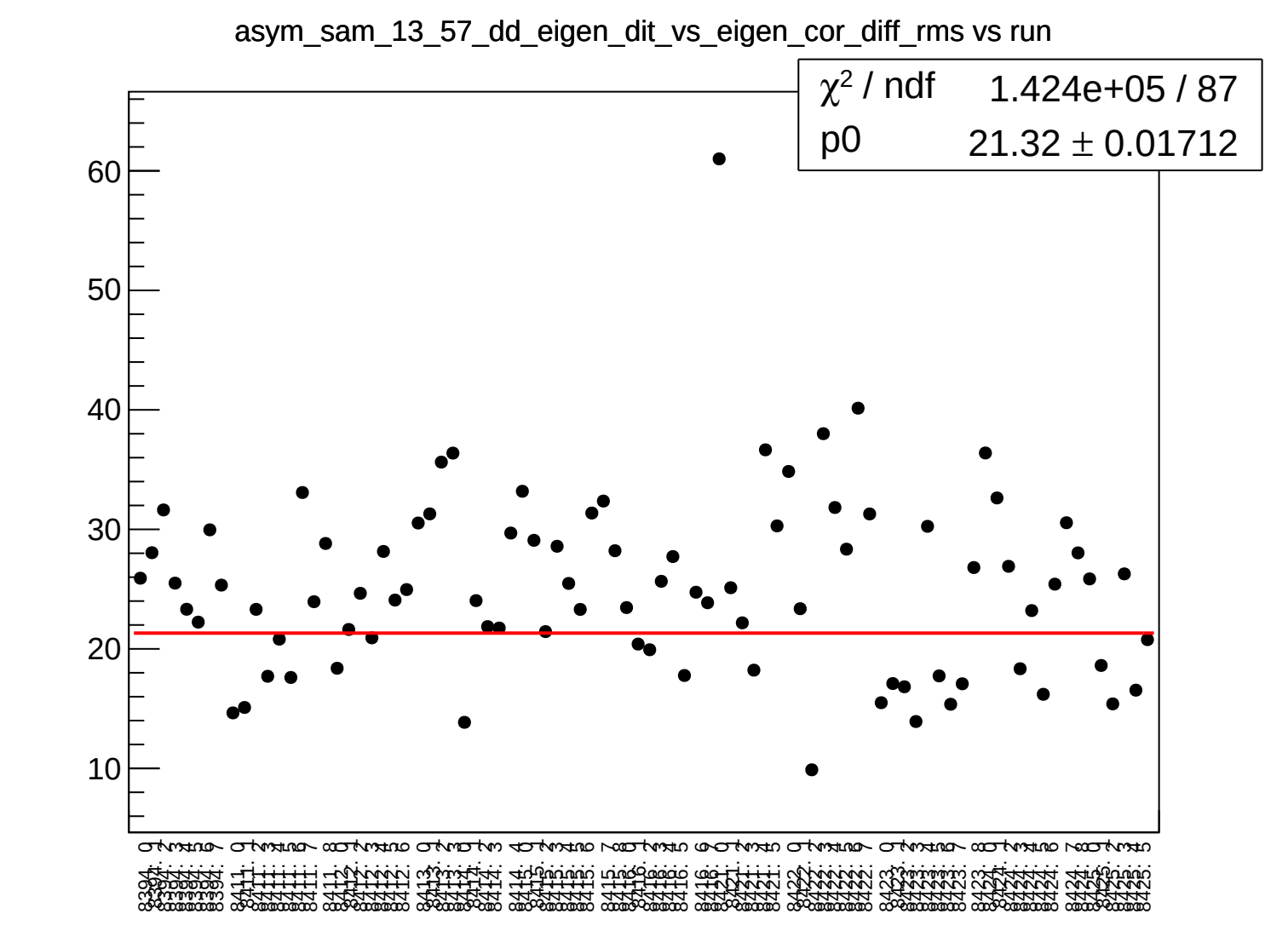

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 110.4 / 87
p0 1.365e−06 ± 2.575e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean 234
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.06264
Std Dev 1.118
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

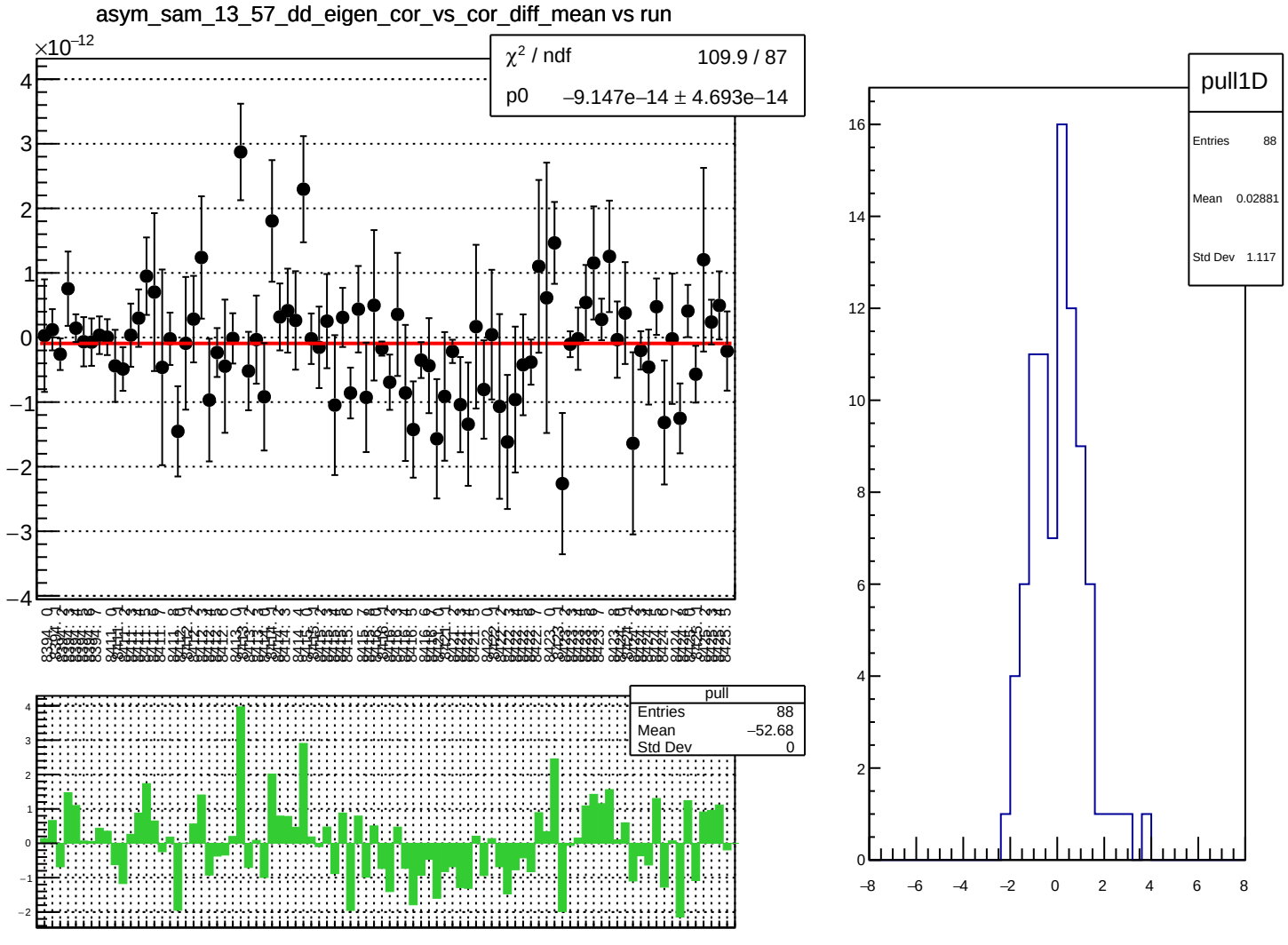

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.684e+04 / 87
p0 0.002344 ± 1.821e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002

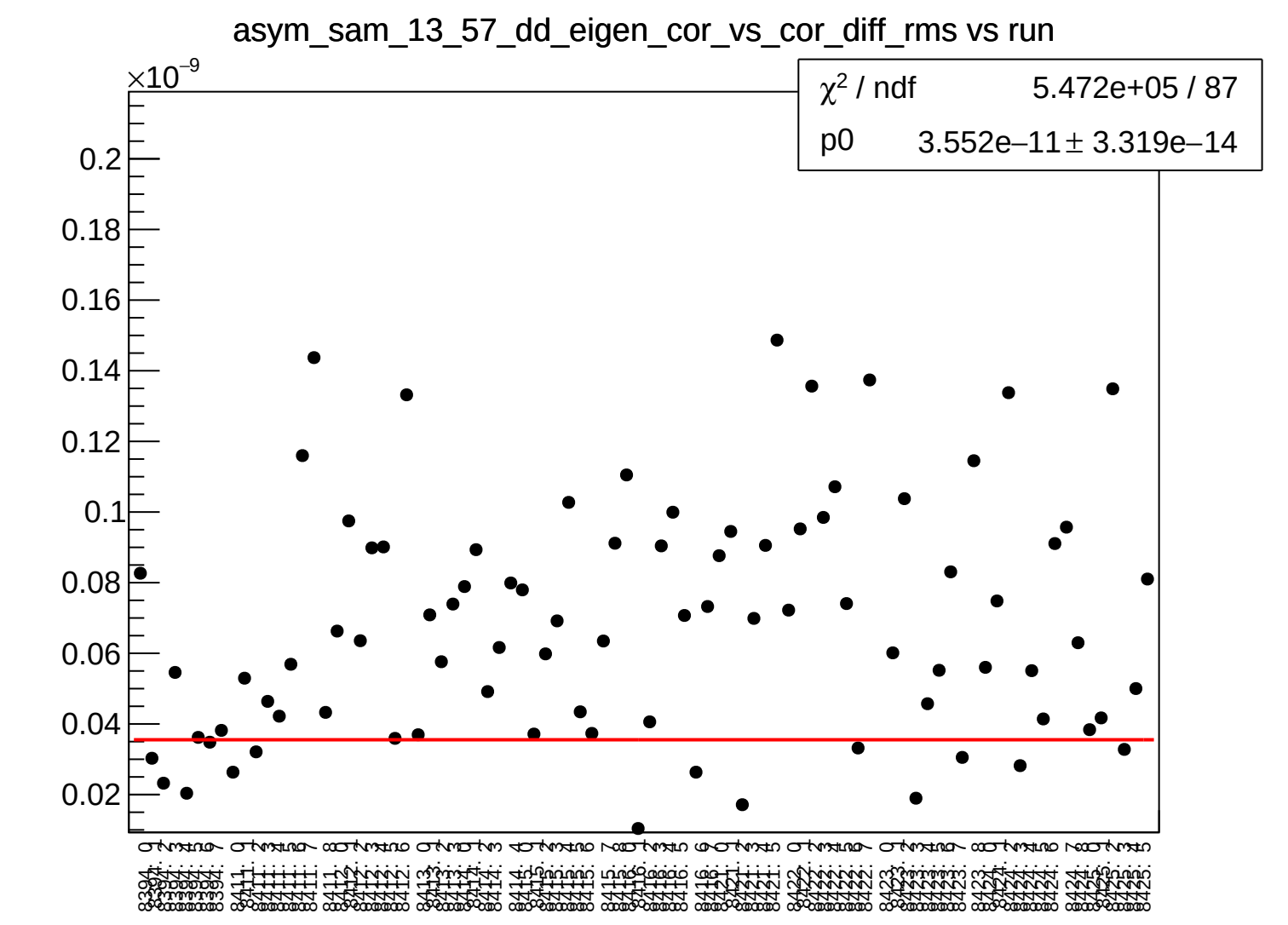

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.04 / 87
p0 0.09624 ± 0.02421
pull
Entries 88
Mean 15.52
Std Dev 0
pull1D
Entries 88
Mean −0.0321
Std Dev 0.8916

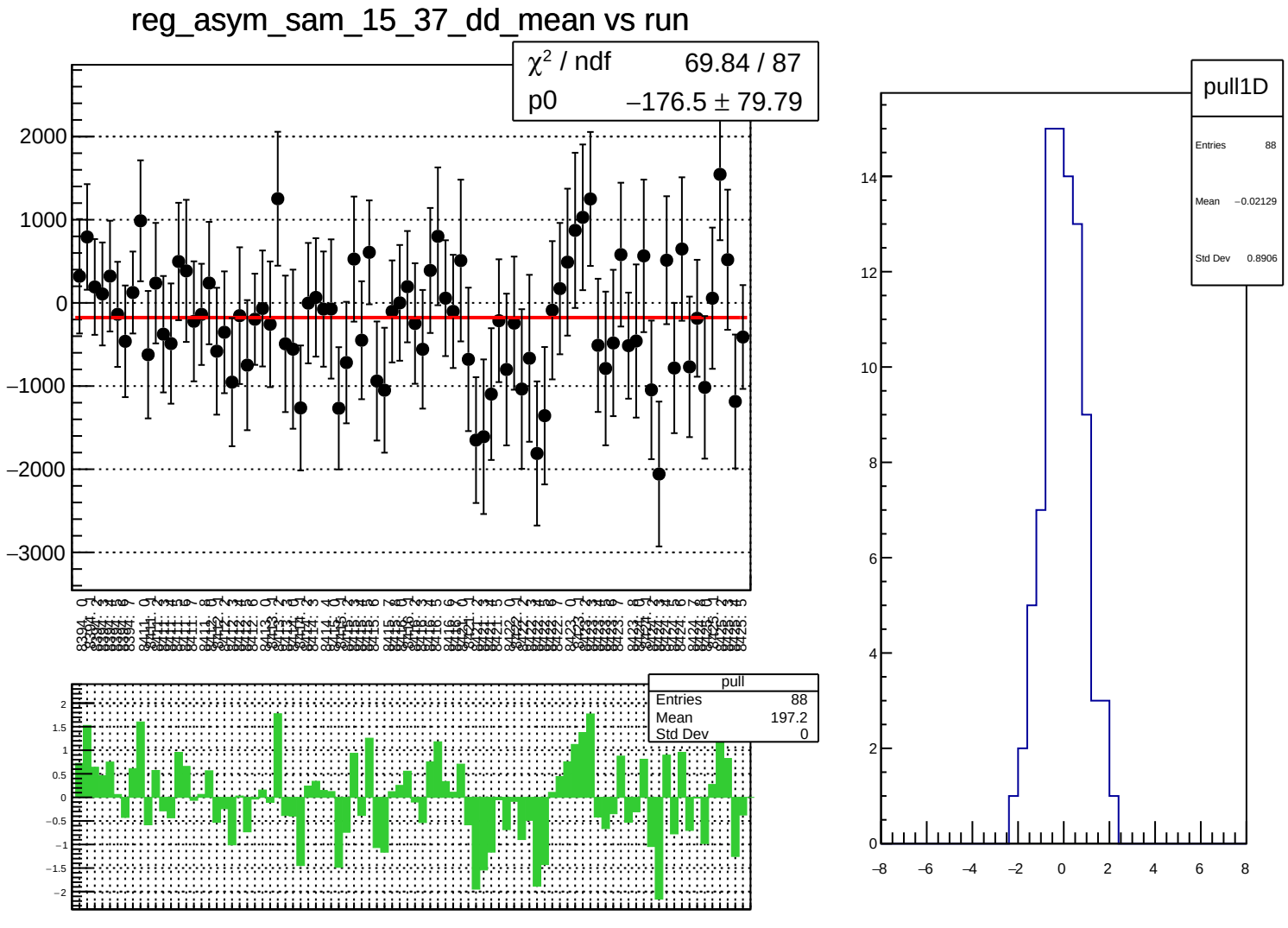

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.424e+05 / 87
p0 21.32 ± 0.01712
60
50
40
30
20
10

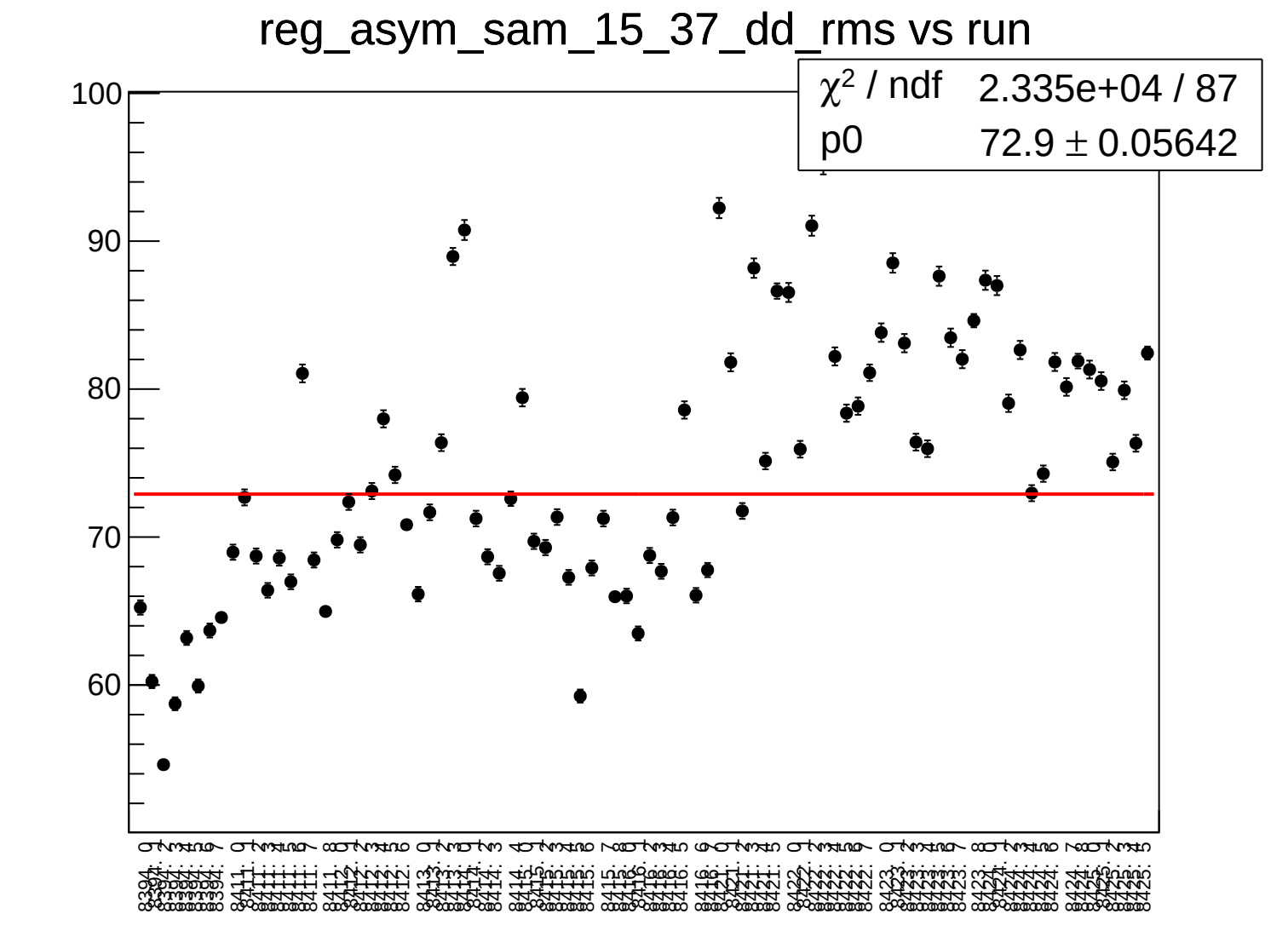

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.04 / 87
p0 0.09624 ± 0.02421
pull
Entries 88
Mean 15.52
Std Dev 0
pull1D
Entries 88
Mean −0.0321
Std Dev 0.8916

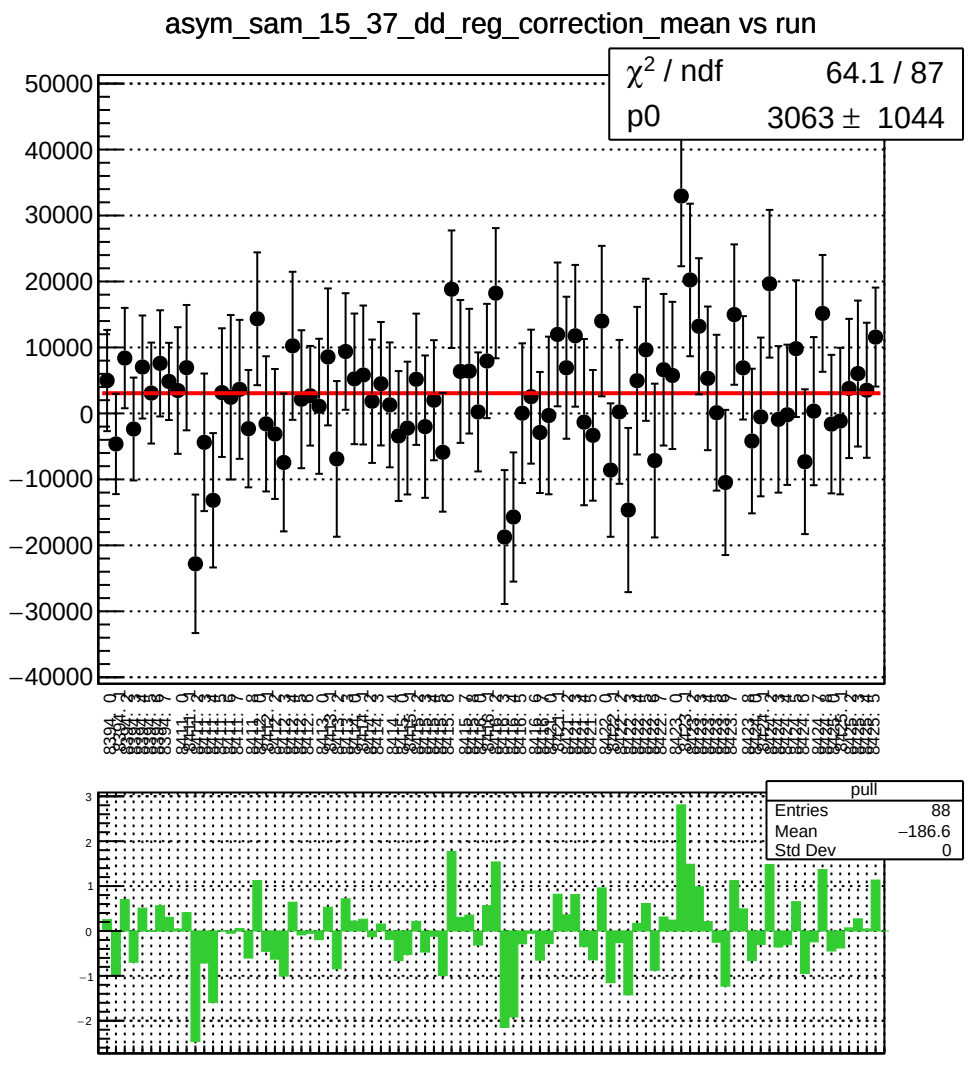

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.424e+05 / 87
p0 21.32 ± 0.01712
60
50
40
30
20
10

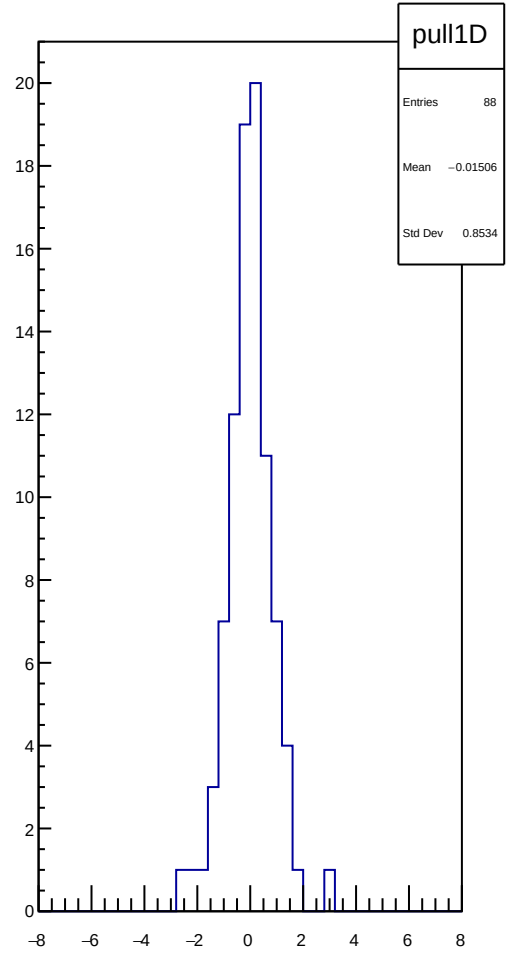

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 109.9 / 87
p0 −9.147e−14 ± 4.693e−14
pull
Entries 88
Mean −52.68
Std Dev 0
pull1D
Entries 88
Mean 0.02881
Std Dev 1.117

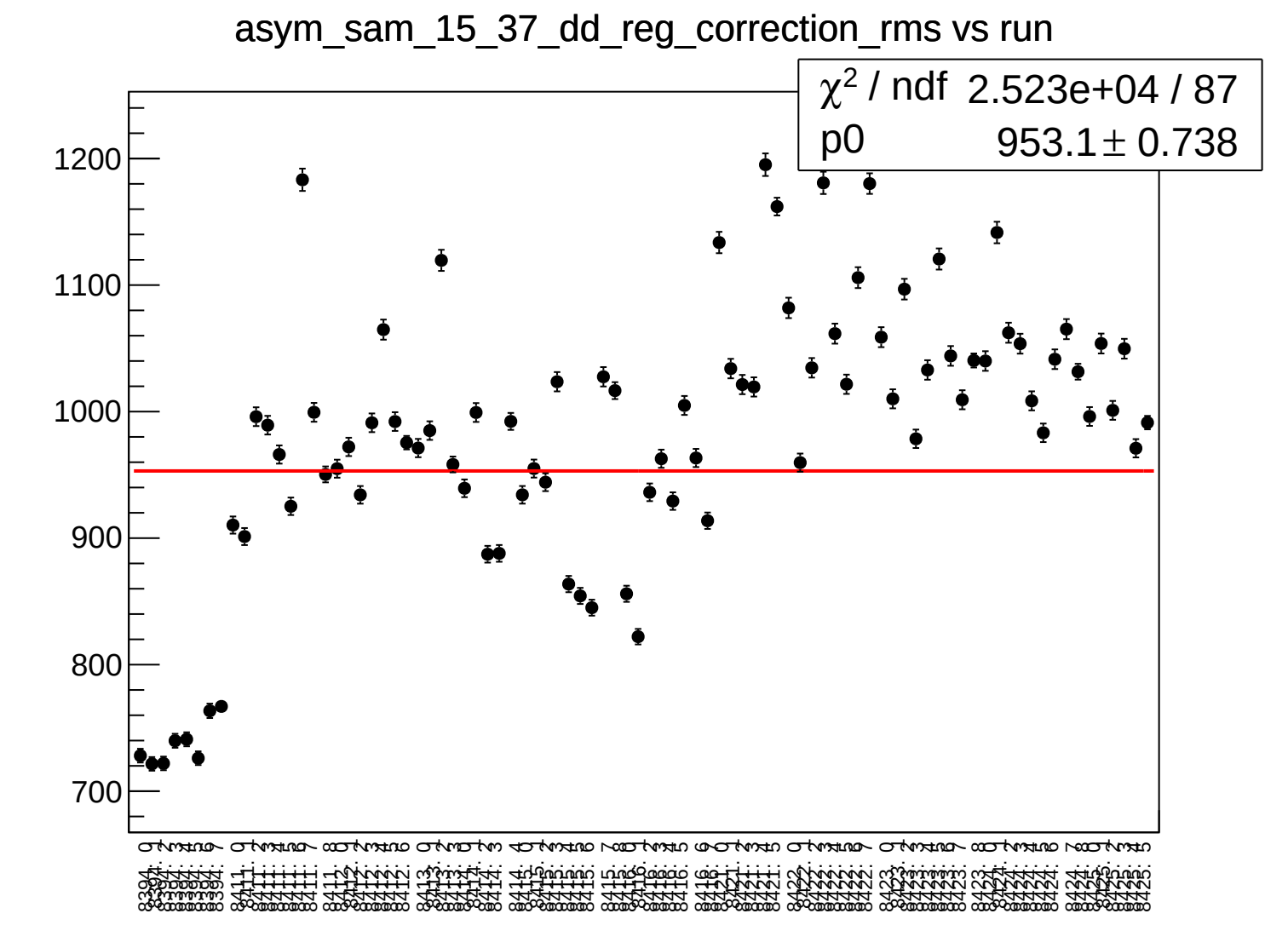

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.472e+05 / 87
p0 3.552e−11 ± 3.319e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

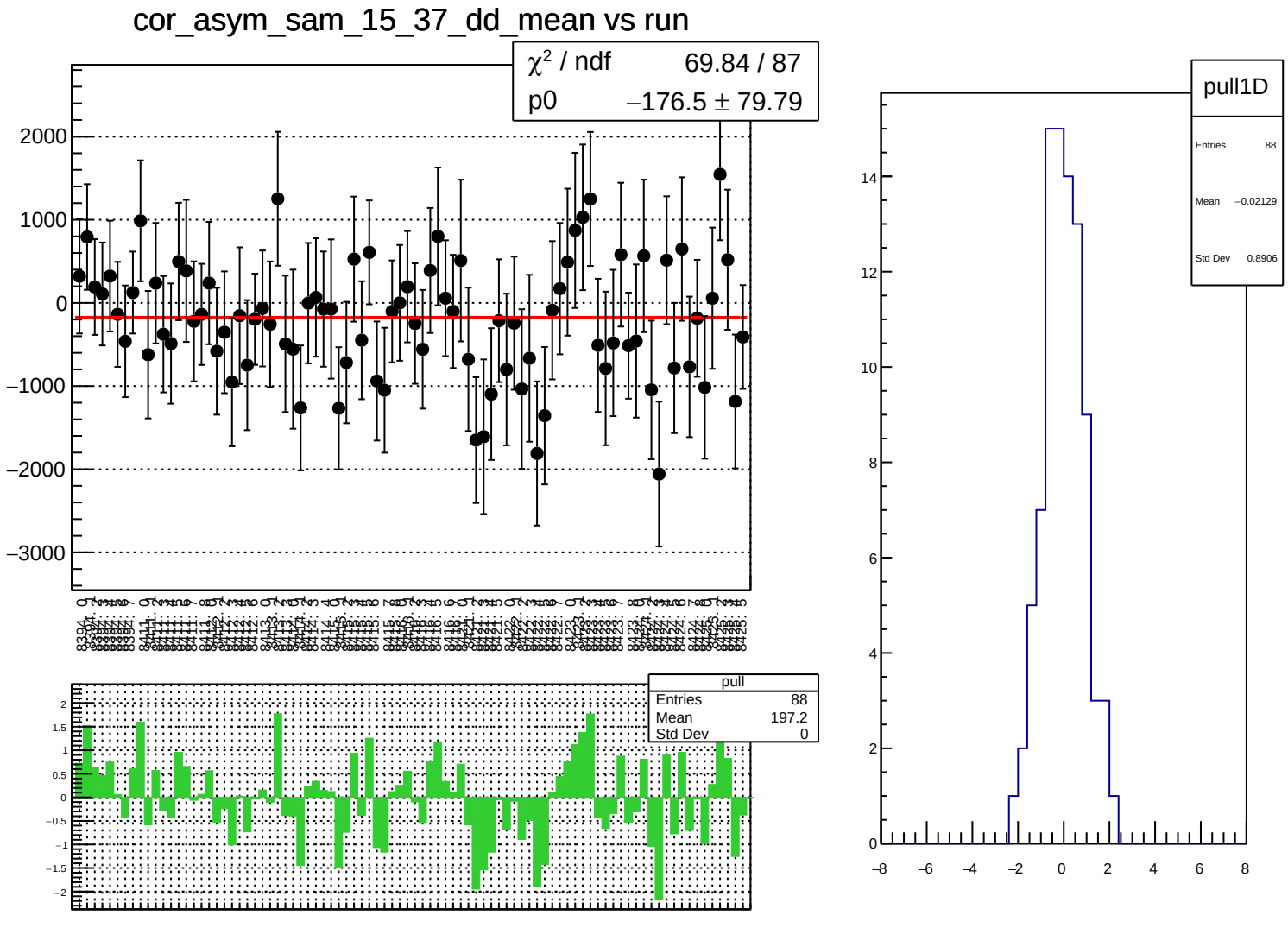

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 69.84 / 87
p0 −176.5 ± 79.79
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 197.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.02129
Std Dev 0.8906
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

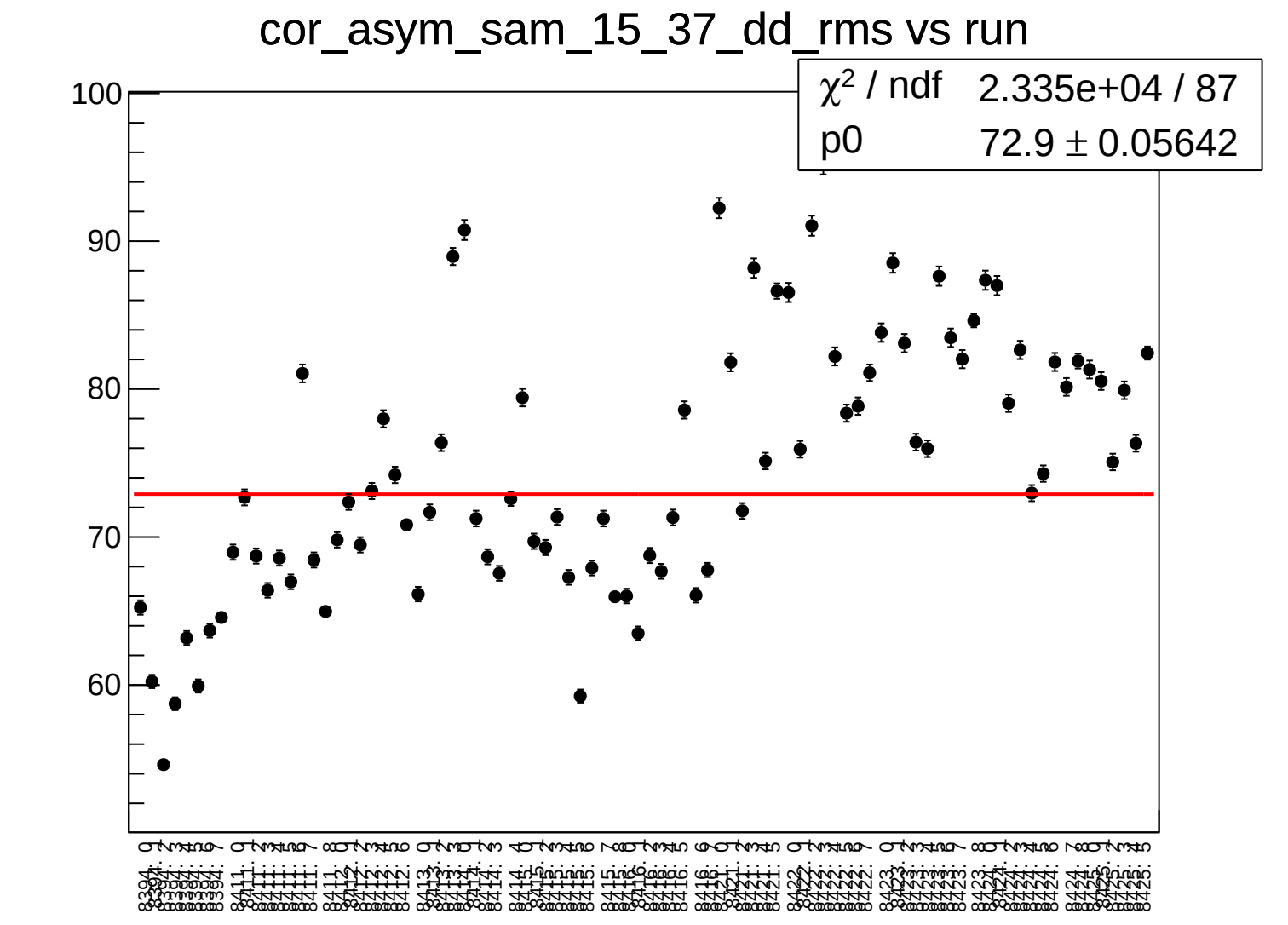

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.335e+04 / 87
p0 72.9 ± 0.05642
100
90
80
70
60

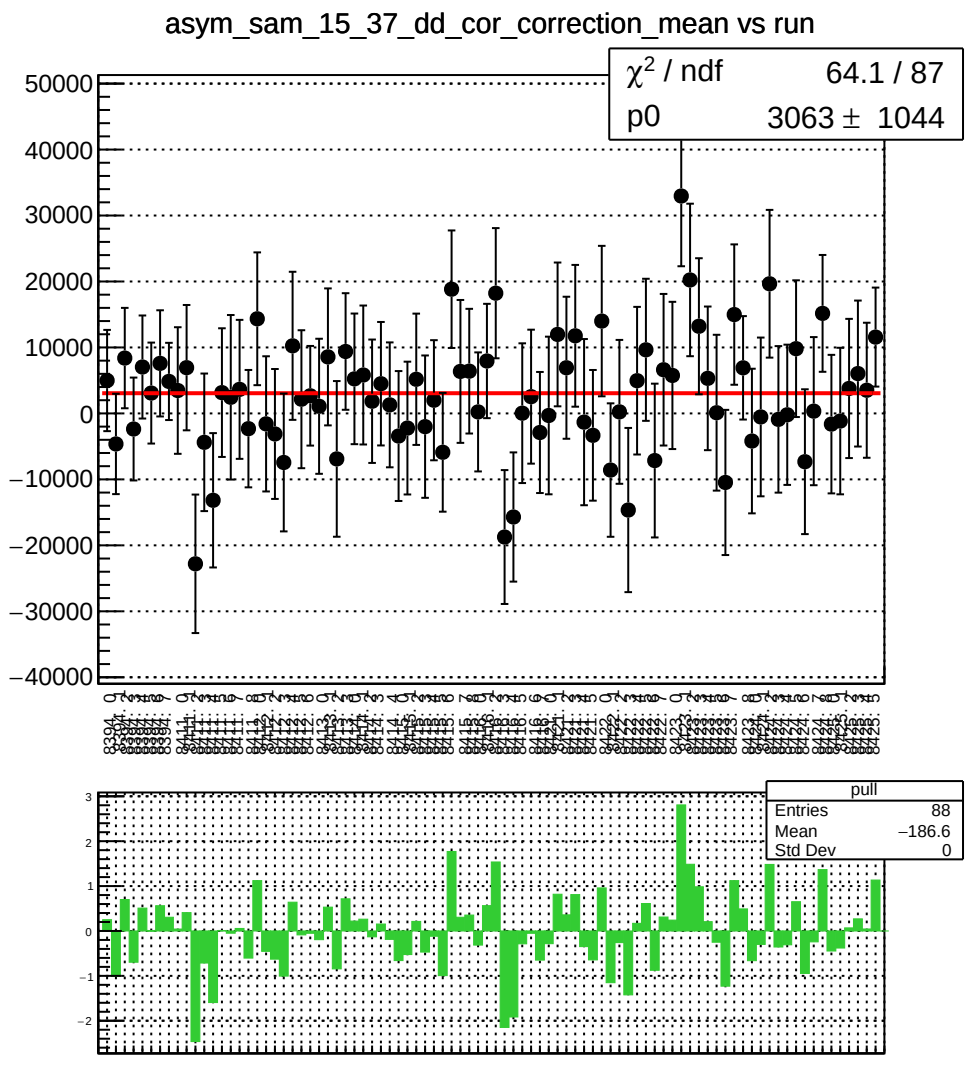

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 64.1 / 87
p0 3063 ± 1044
pull
Entries 88
Mean −186.6
Std Dev 0

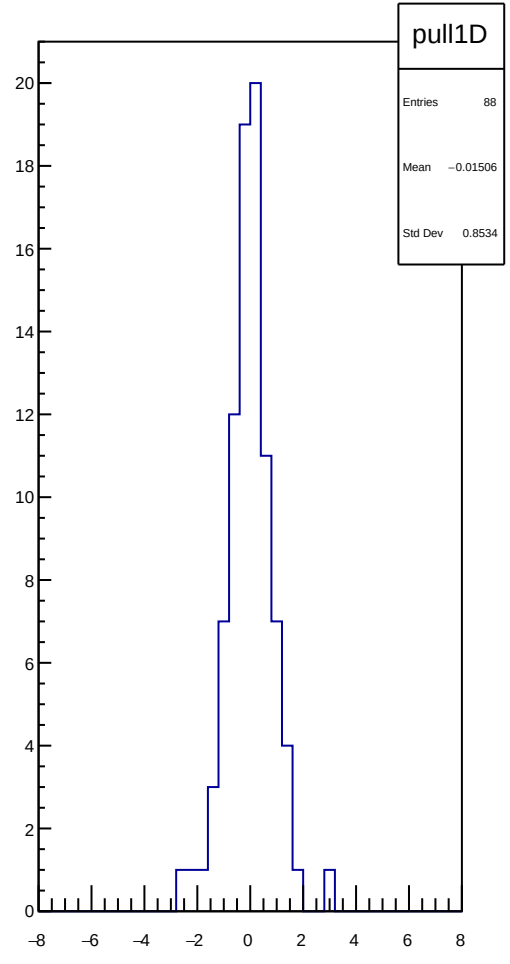

pull1D
Entries 88
Mean −0.01506
Std Dev 0.8534

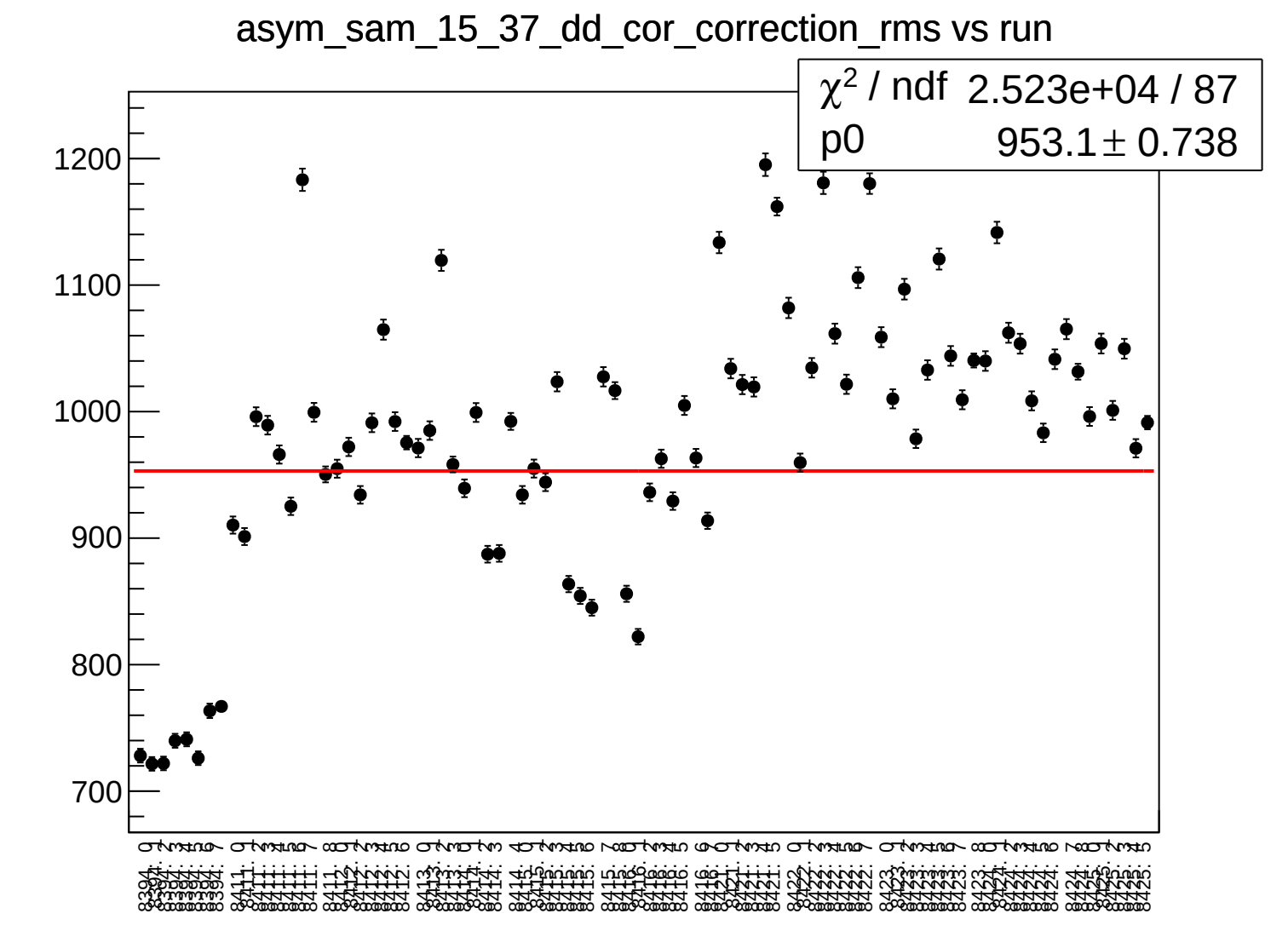

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 2.523e+04 / 87
p0 953.1 ± 0.738
1200
1100
1000
900
800
700

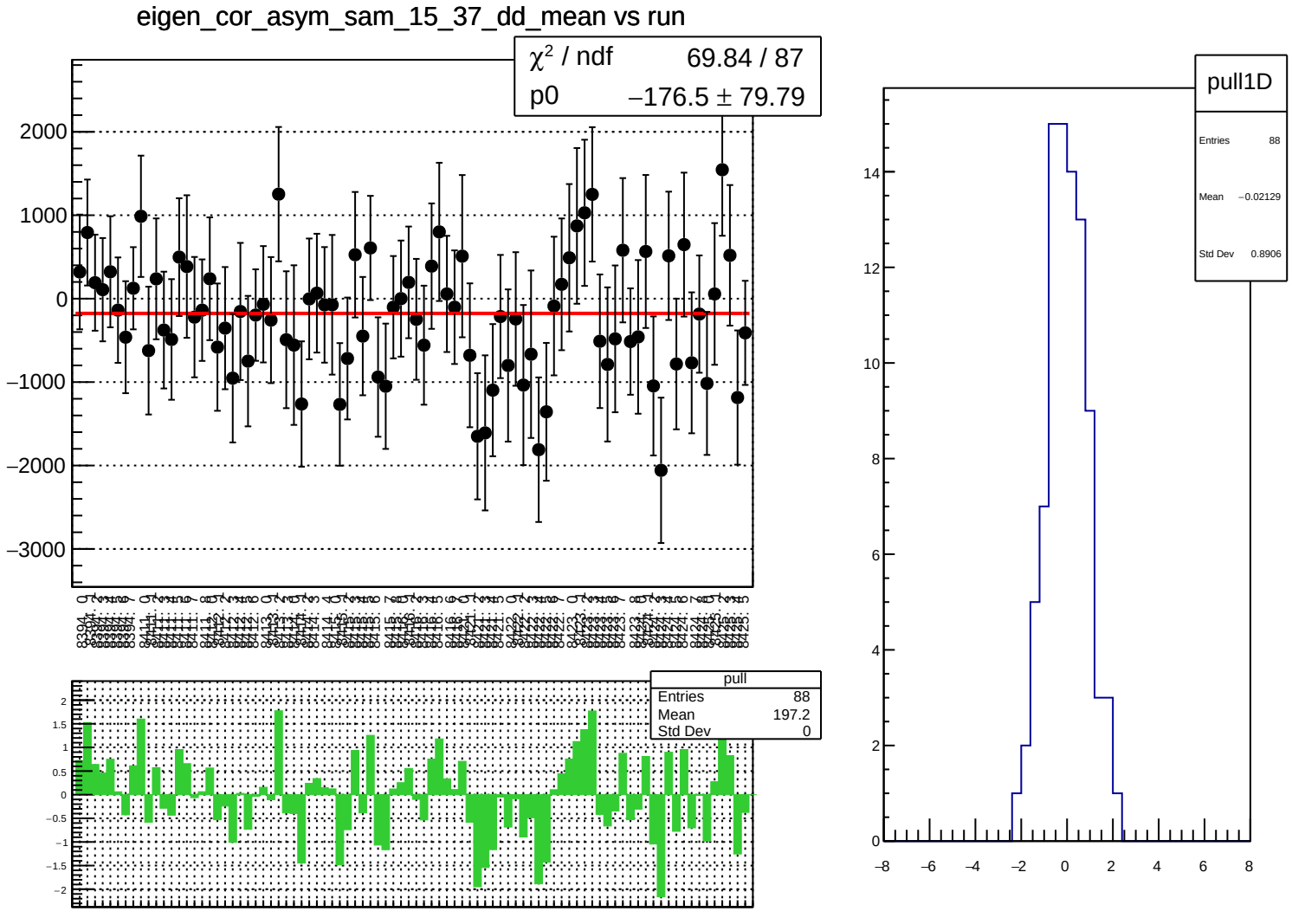

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 69.84 / 87
p0 −176.5 ± 79.79
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 197.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.02129
Std Dev 0.8906
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

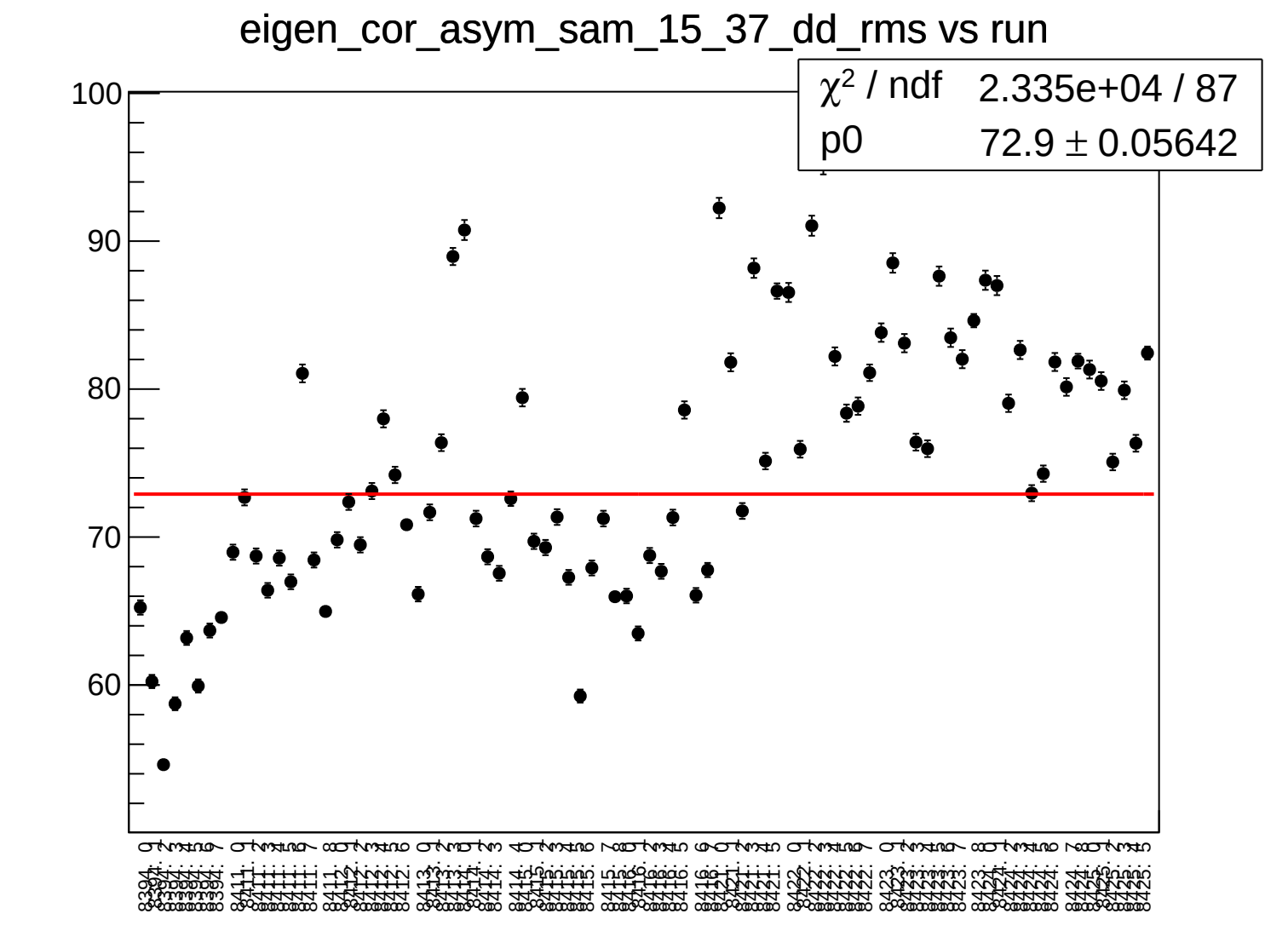

cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.335e+04 / 87
p0 72.9 ± 0.05642
100
90
80
70
60

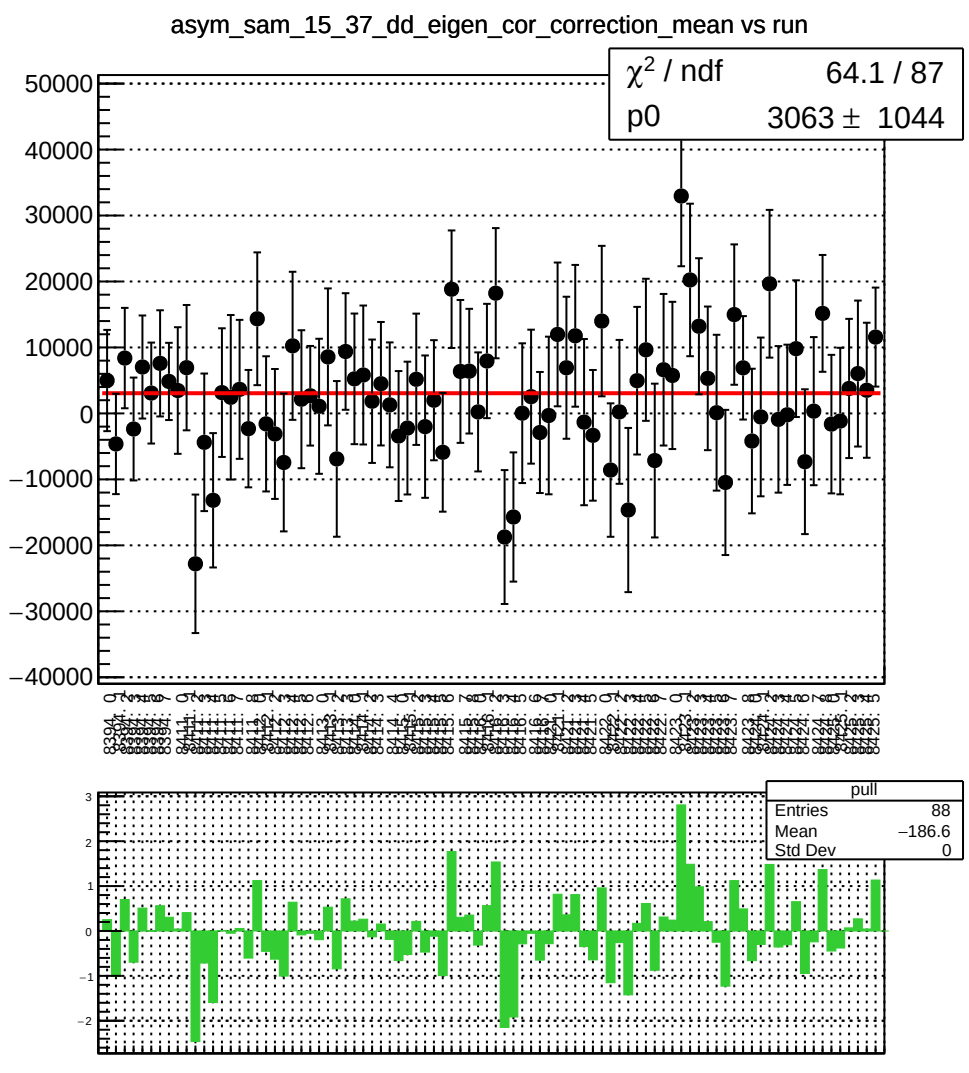

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 64.1 / 87
p0 3063 ± 1044
pull
Entries 88
Mean −186.6
Std Dev 0

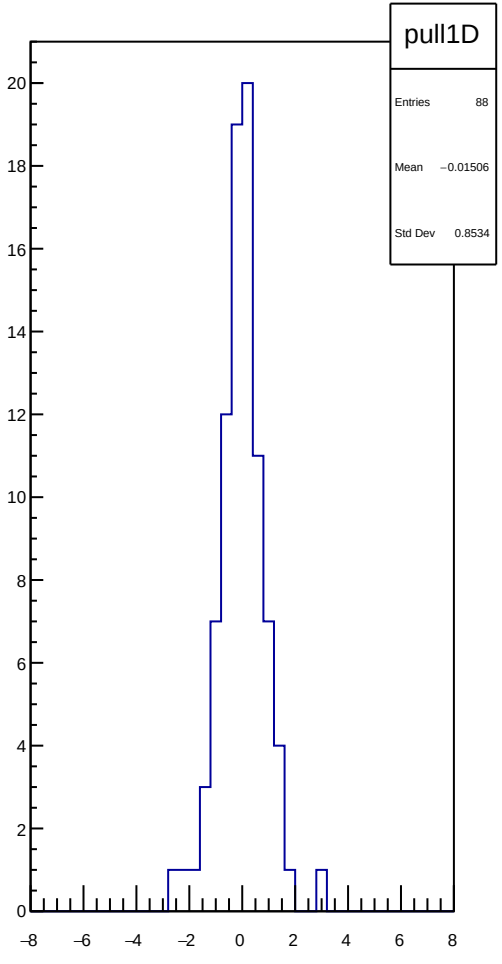

pull1D
Entries 88
Mean −0.01506
Std Dev 0.8534

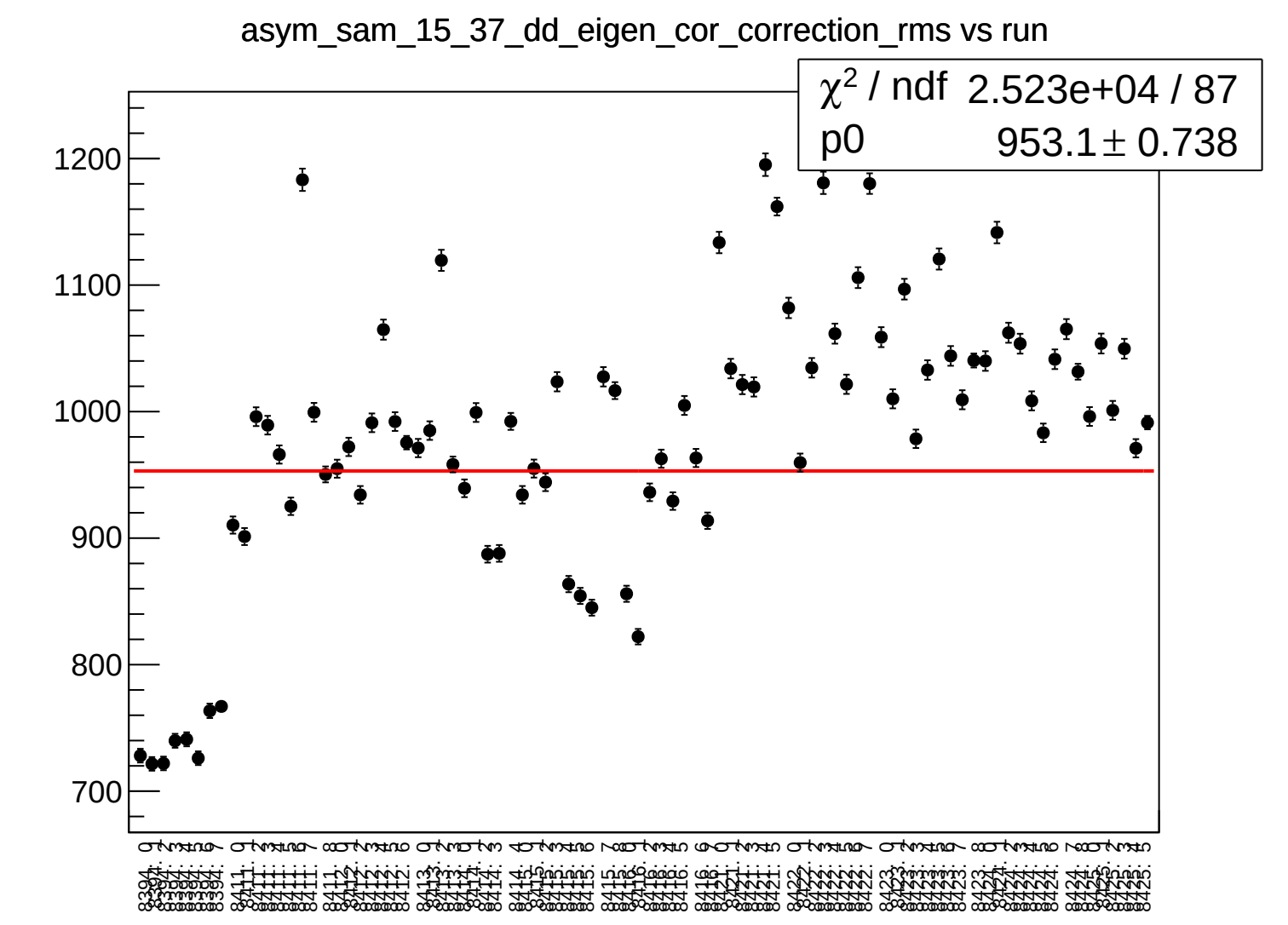

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 2.523e+04 / 87
p0 953.1 ± 0.738
1200
1100
1000
900
800
700

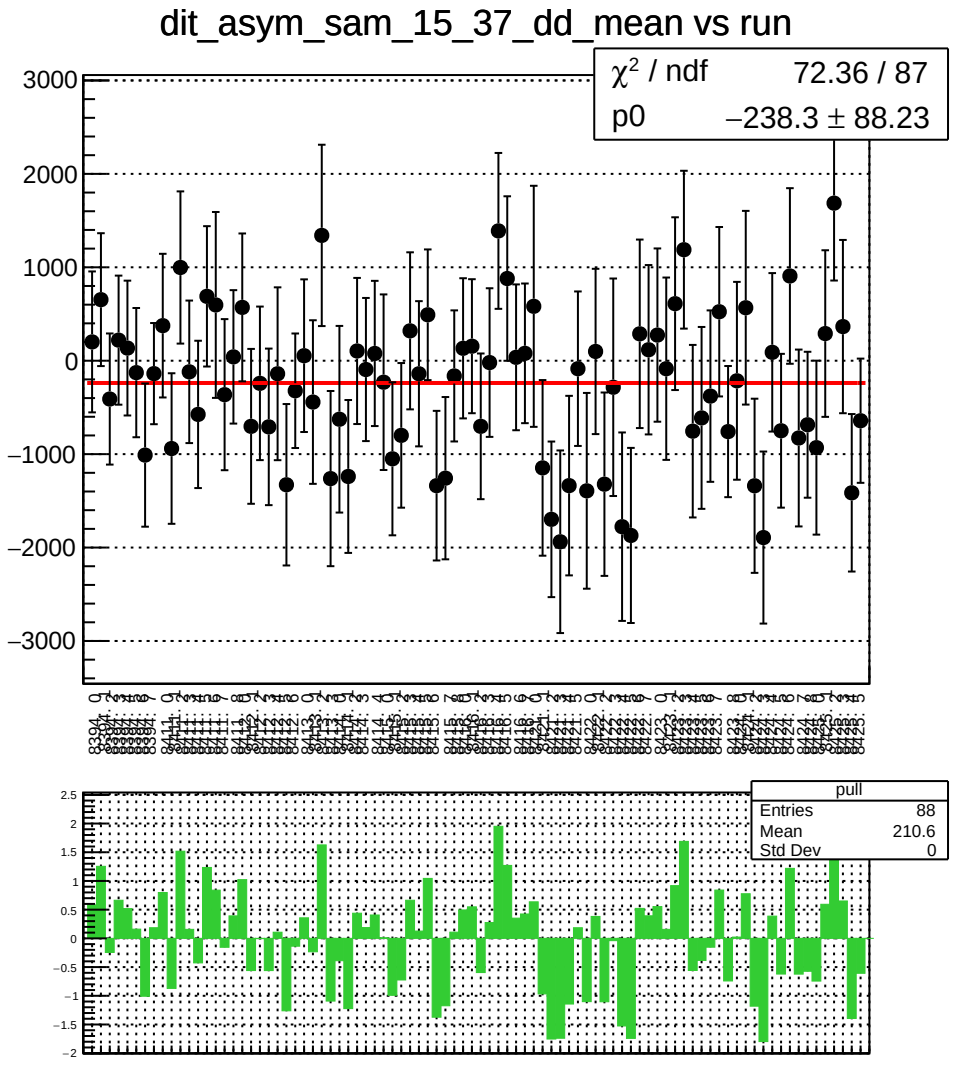

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 69.84 / 87
p0 −176.5 ± 79.79
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 197.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.02129
Std Dev 0.8906
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

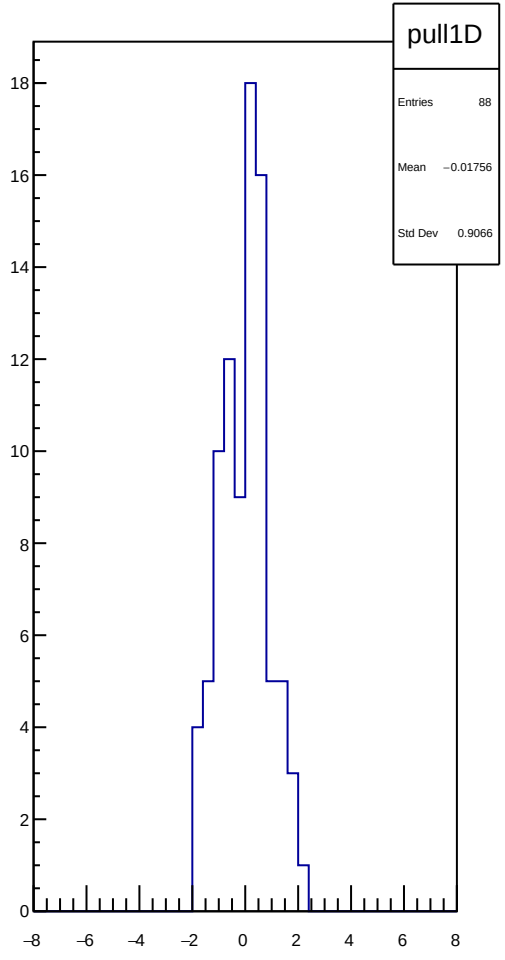

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.335e+04 / 87
p0 72.9 ± 0.05642
100
90
80
70
60

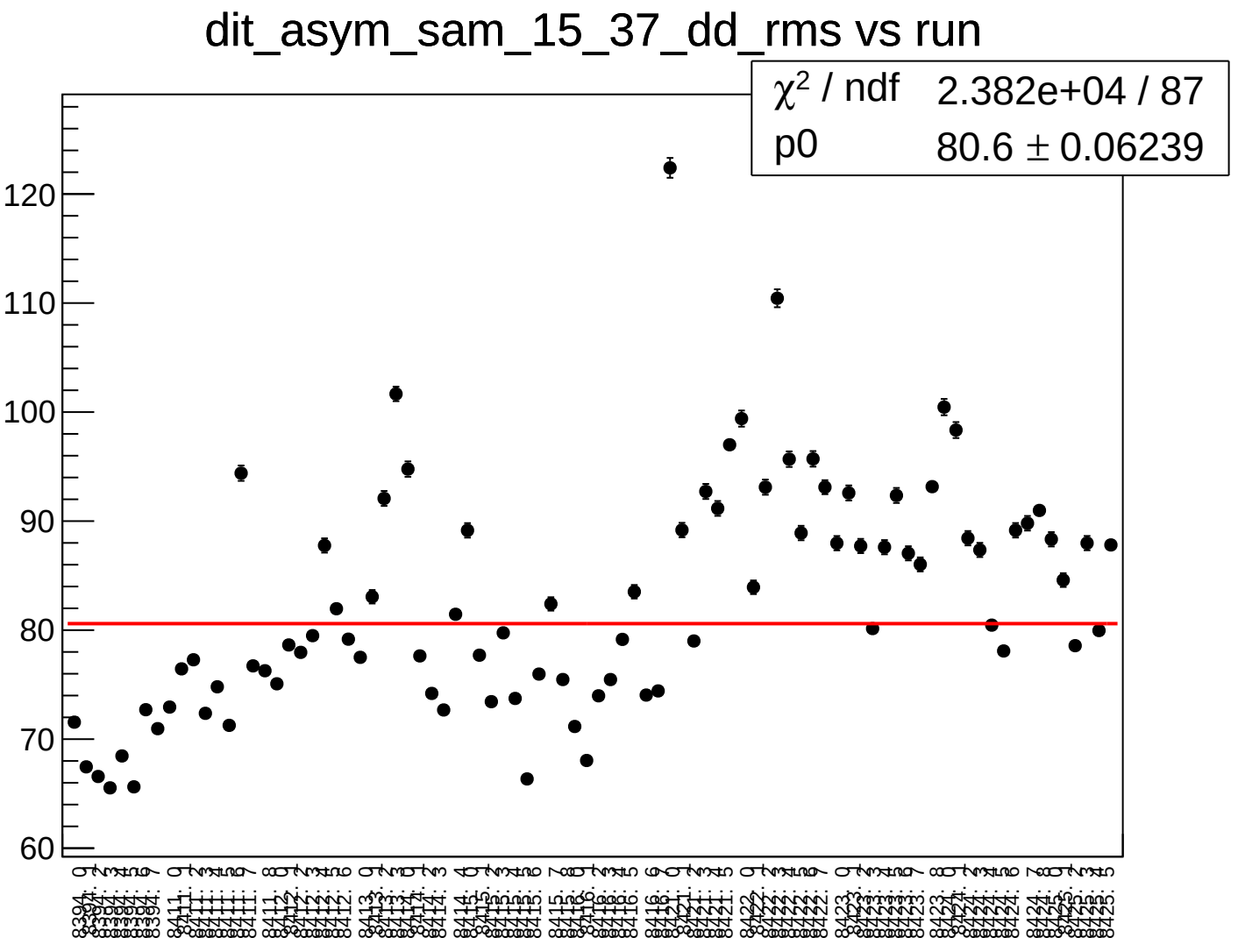

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 64.1 / 87
p0 3063 ± 1044
pull
Entries 88
Mean −186.6
Std Dev 0

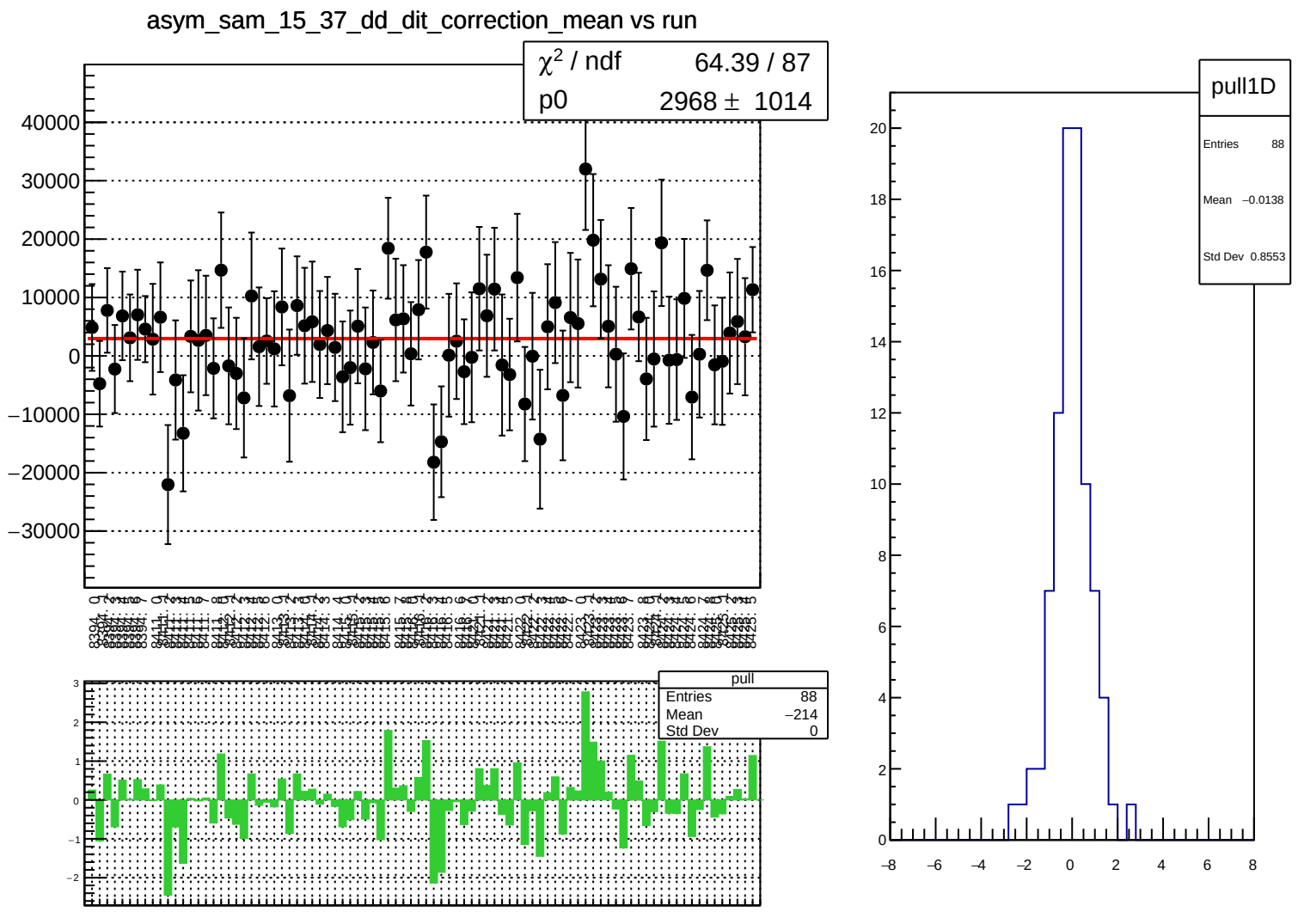

pull1D
Entries 88
Mean −0.01506
Std Dev 0.8534

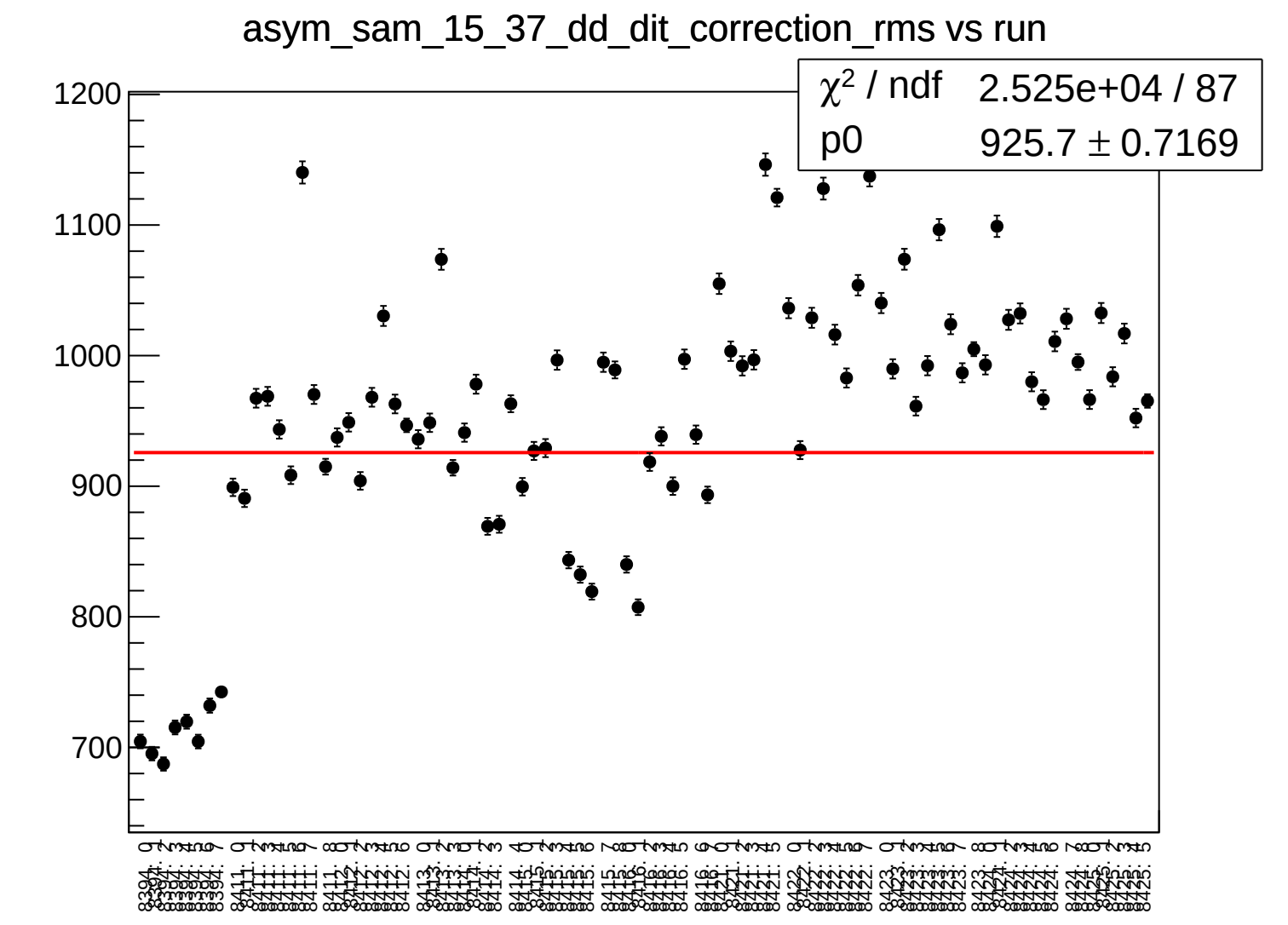

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.523e+04 / 87
p0 953.1 ± 0.738
1200
1100
1000
900
800
700

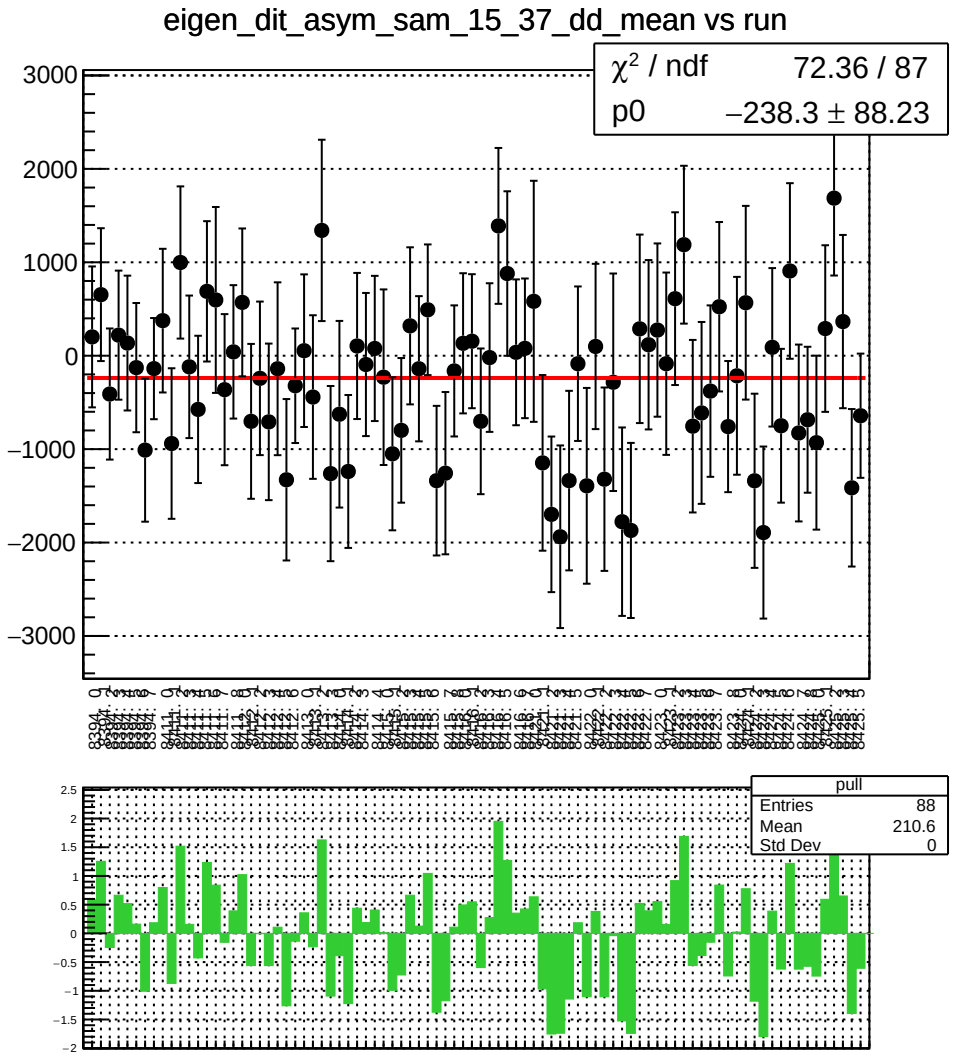

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 72.36 / 87
p0 −238.3 ± 88.23
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 210.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

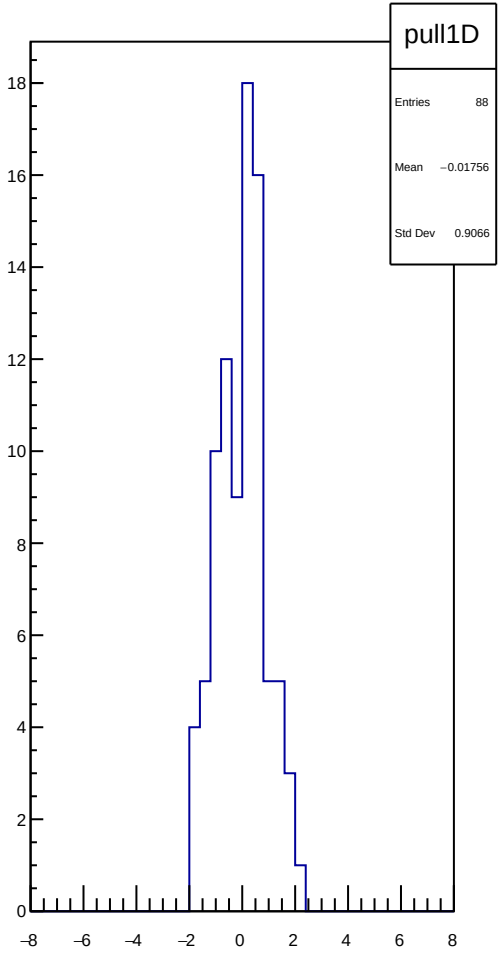

pull1D
Entries 88
Mean −0.01756
Std Dev 0.9066
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

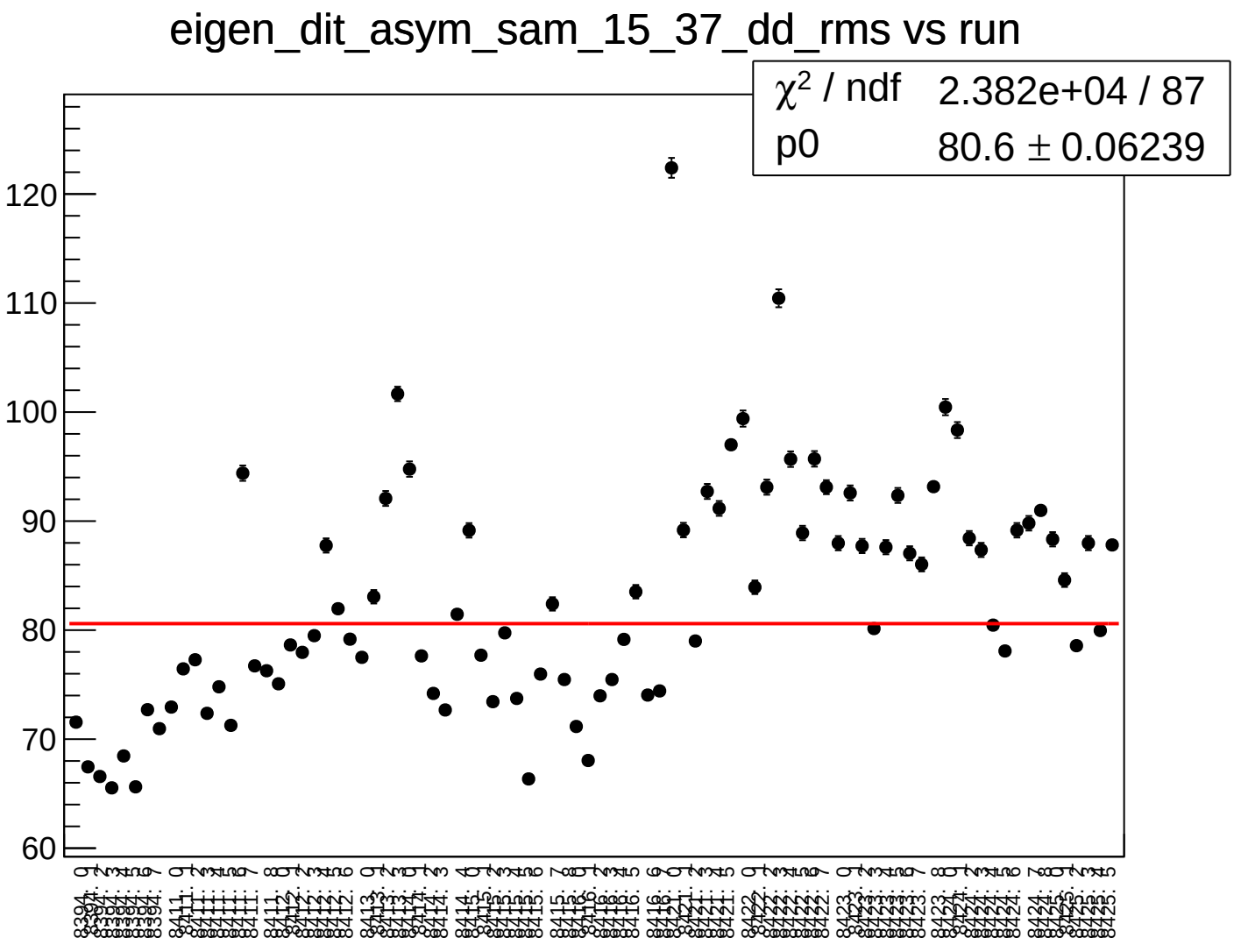

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.382e+04 / 87
p0 80.6 ± 0.06239
120
110
100
90
80
70
60

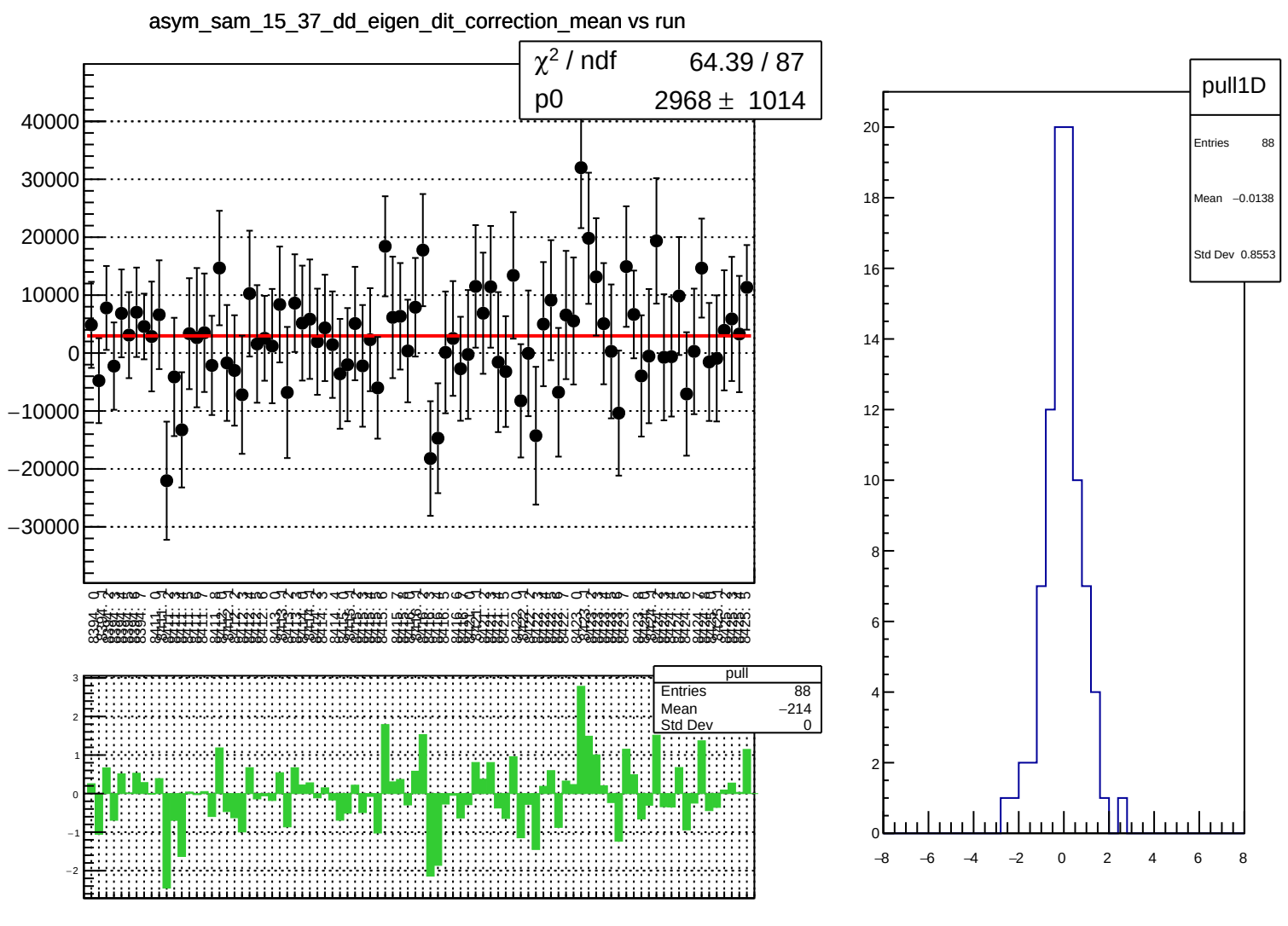

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 64.39 / 87
p0 2968 ± 1014
pull
Entries 88
Mean −214
Std Dev 0
pull1D
Entries 88
Mean −0.0138
Std Dev 0.8553

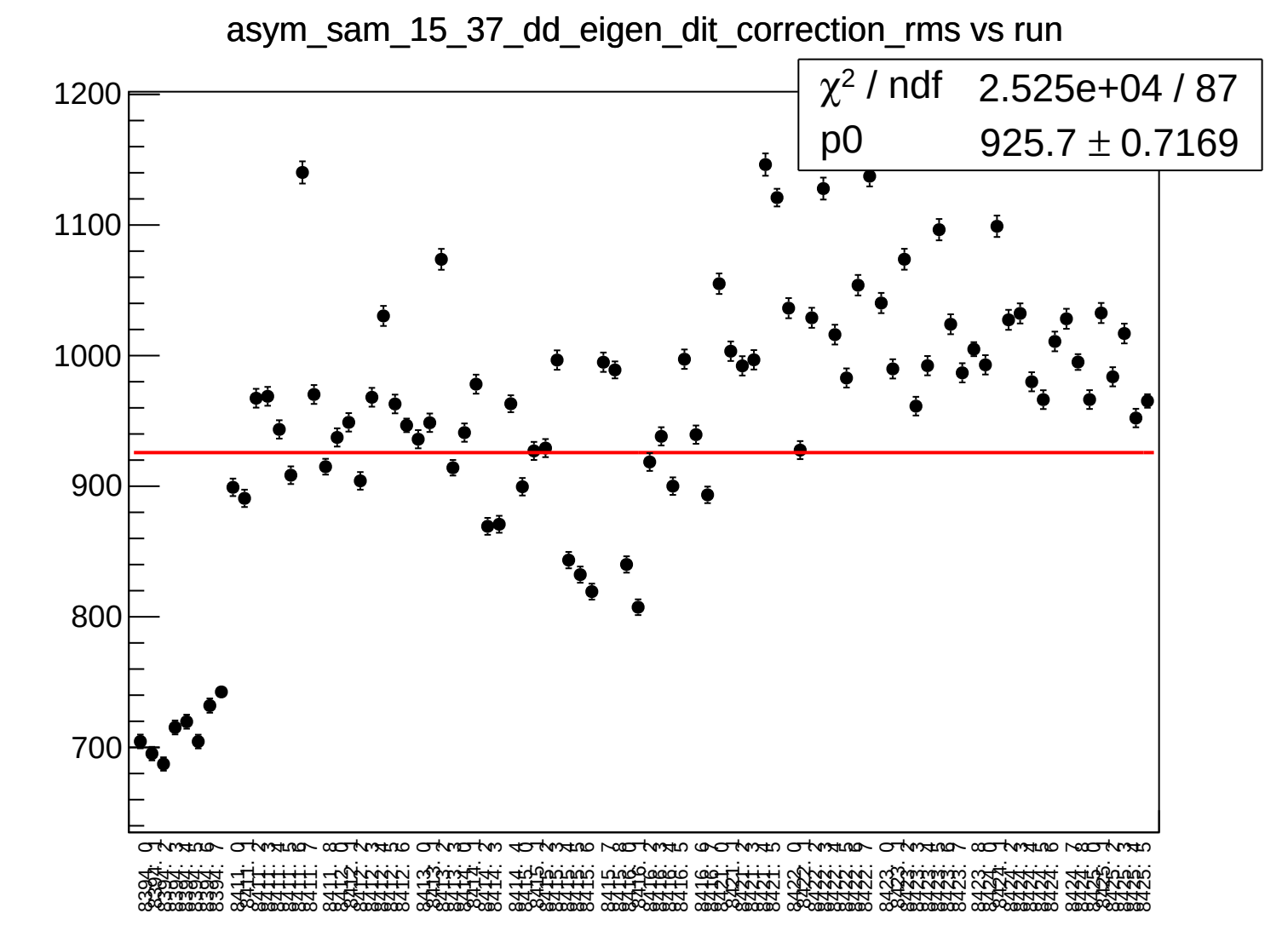

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 2.525e+04 / 87
p0 925.7 ± 0.7169
1200
1100
1000
900
800
700

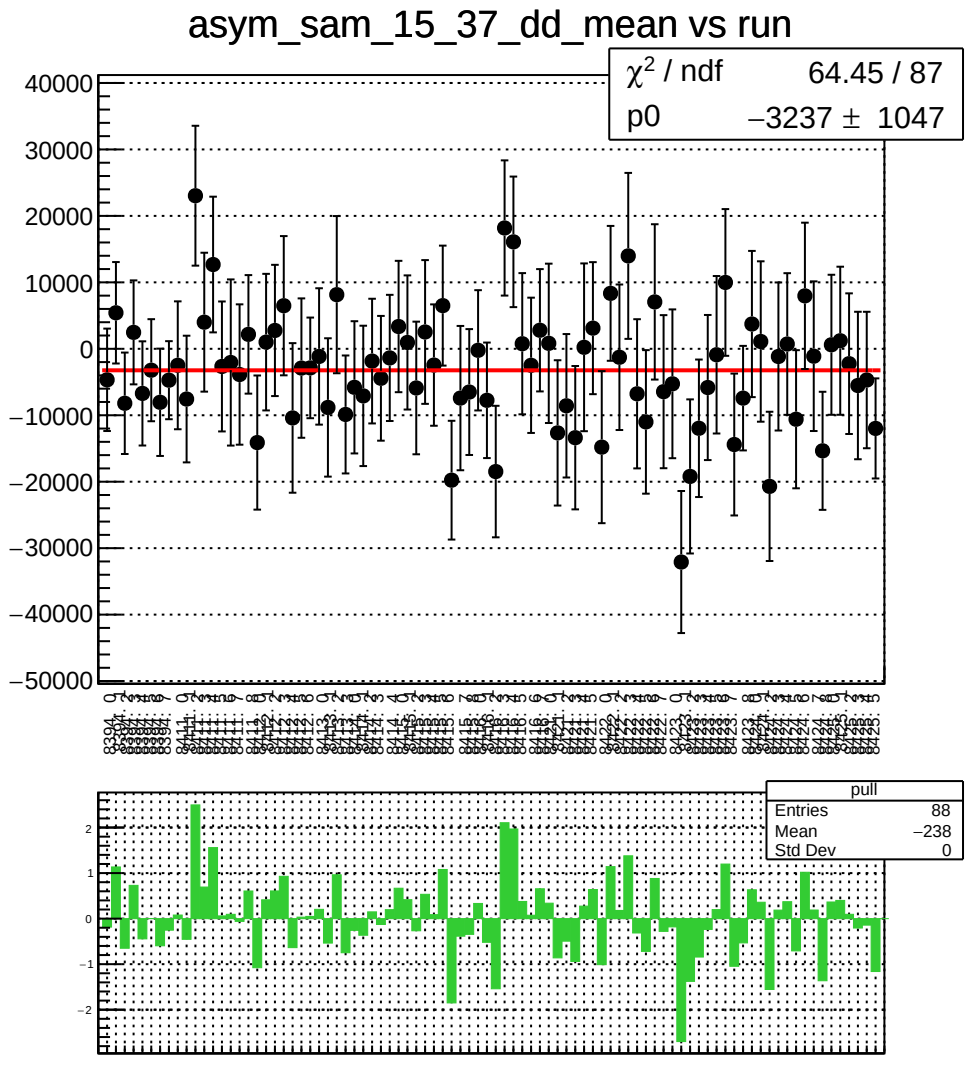

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 72.36 / 87
p0 −238.3 ± 88.23
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 210.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

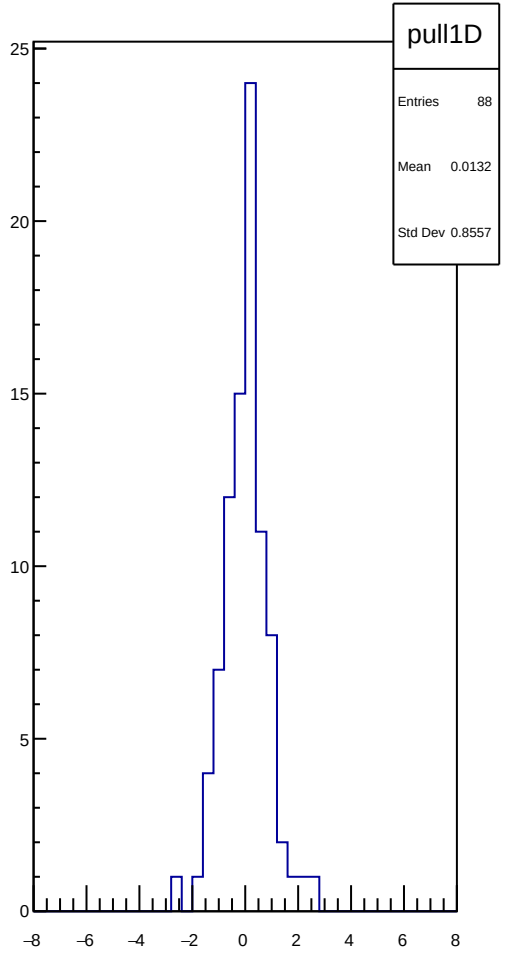

pull1D
Entries 88
Mean −0.01756
Std Dev 0.9066
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

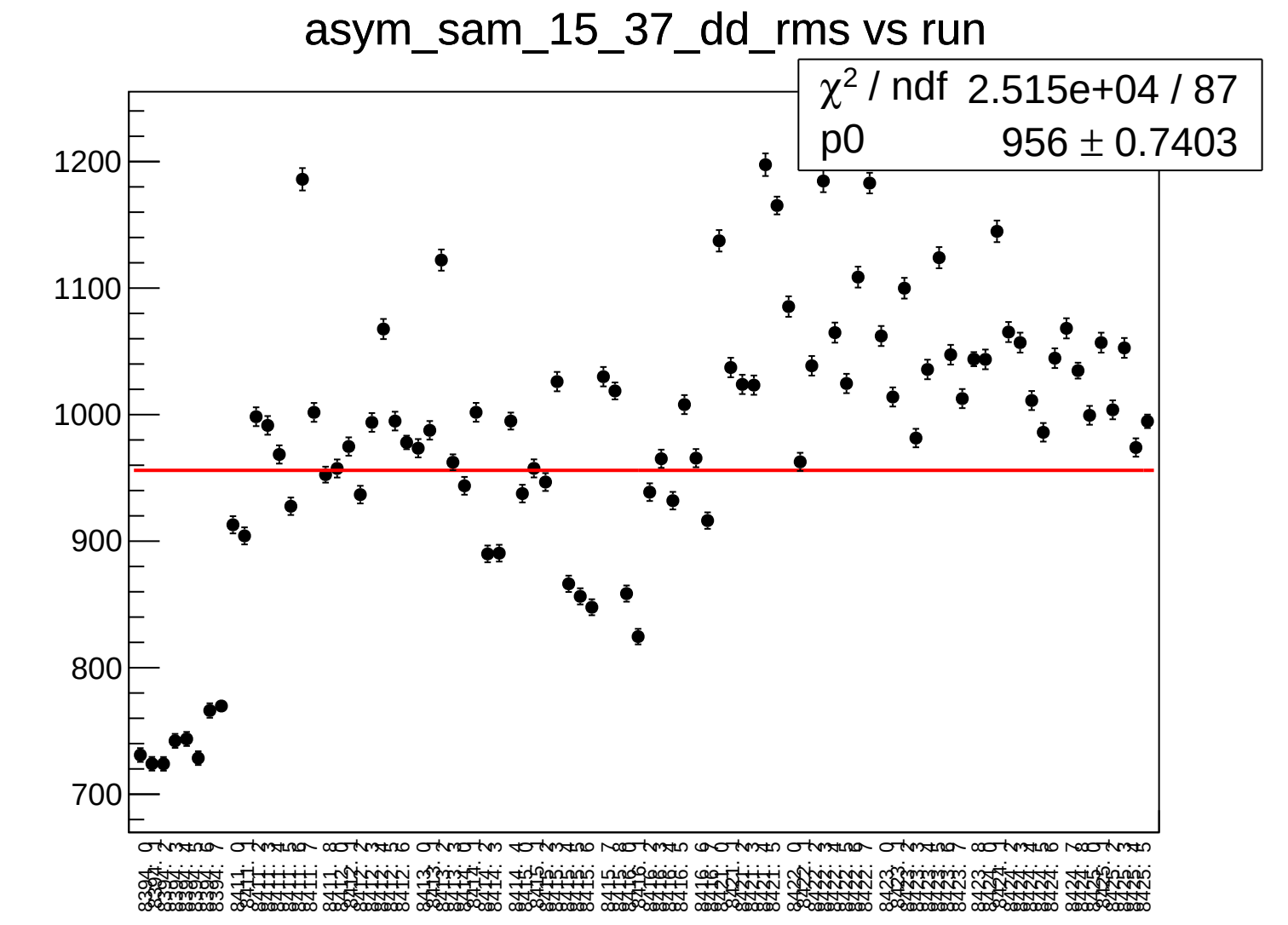

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.382e+04 / 87
p0 80.6 ± 0.06239
120
110
100
90
80
70
60

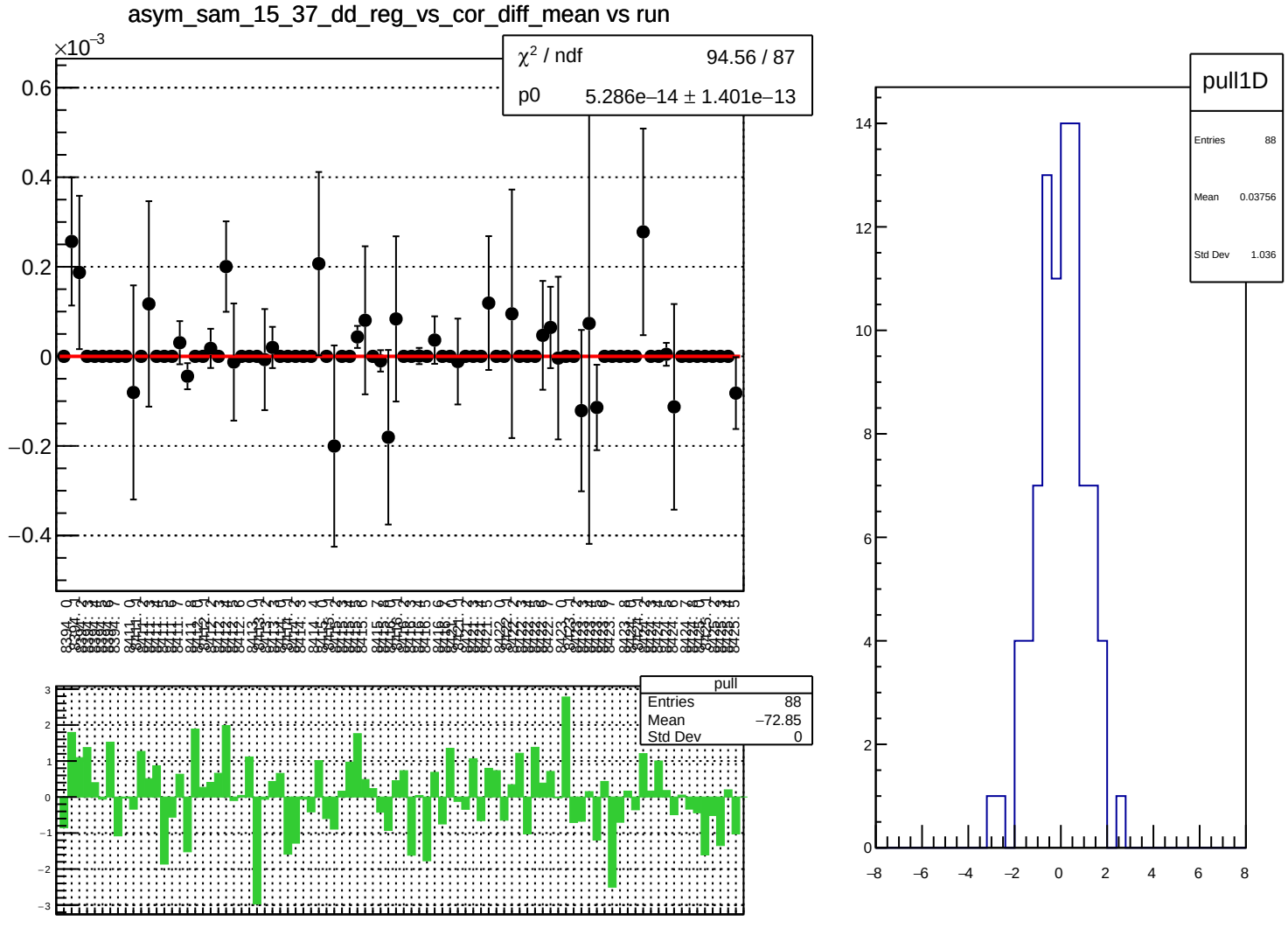

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 64.39 / 87
p0 2968 ± 1014
pull
Entries 88
Mean −214
Std Dev 0
pull1D
Entries 88
Mean −0.0138
Std Dev 0.8553

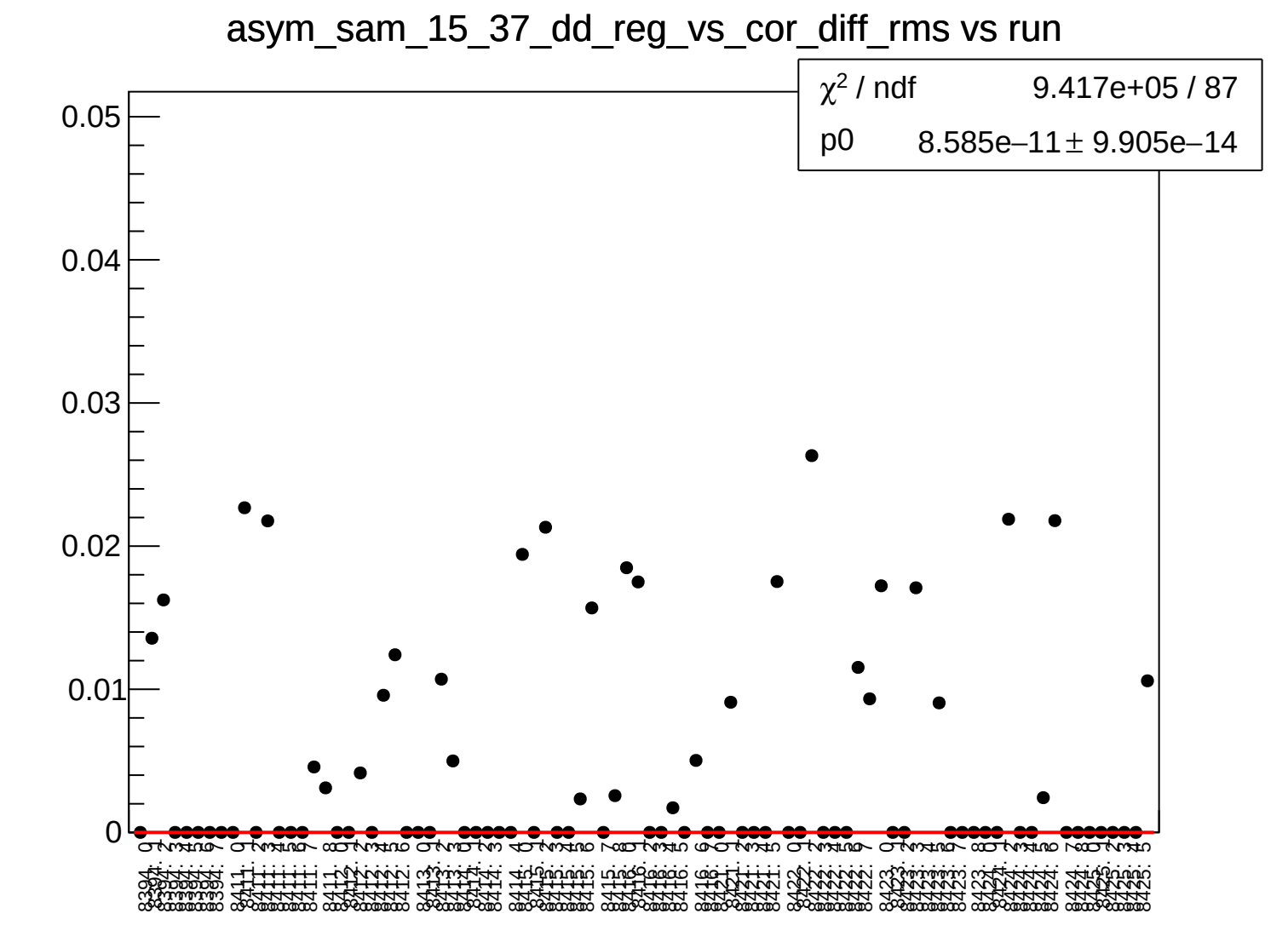

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.525e+04 / 87
p0 925.7 ± 0.7169
1200
1100
1000
900
800
700

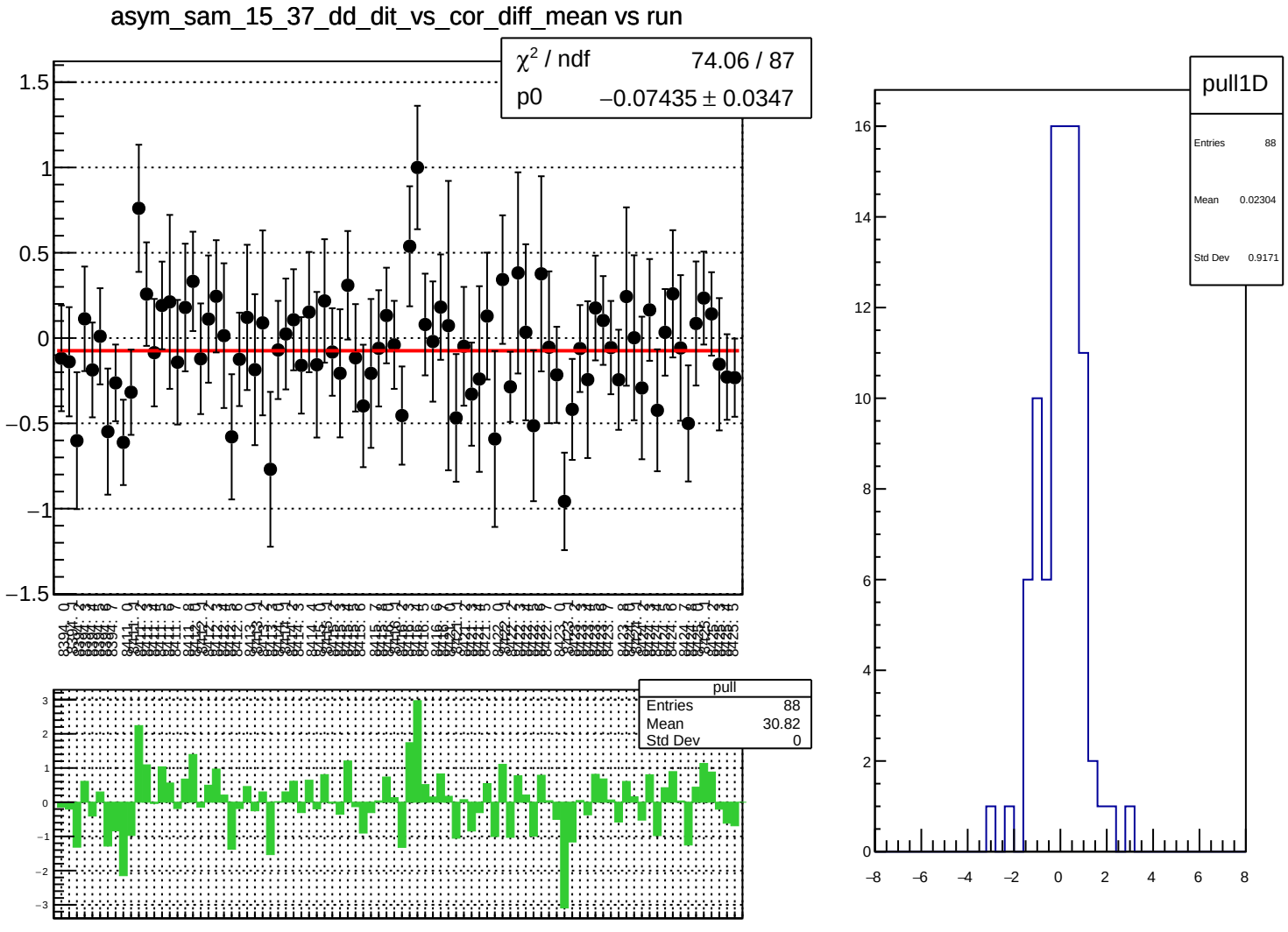

asym_sam_15_37_dd_mean vs run
χ² / ndf 64.45 / 87
p0 −3237 ± 1047
pull
Entries 88
Mean −238
Std Dev 0

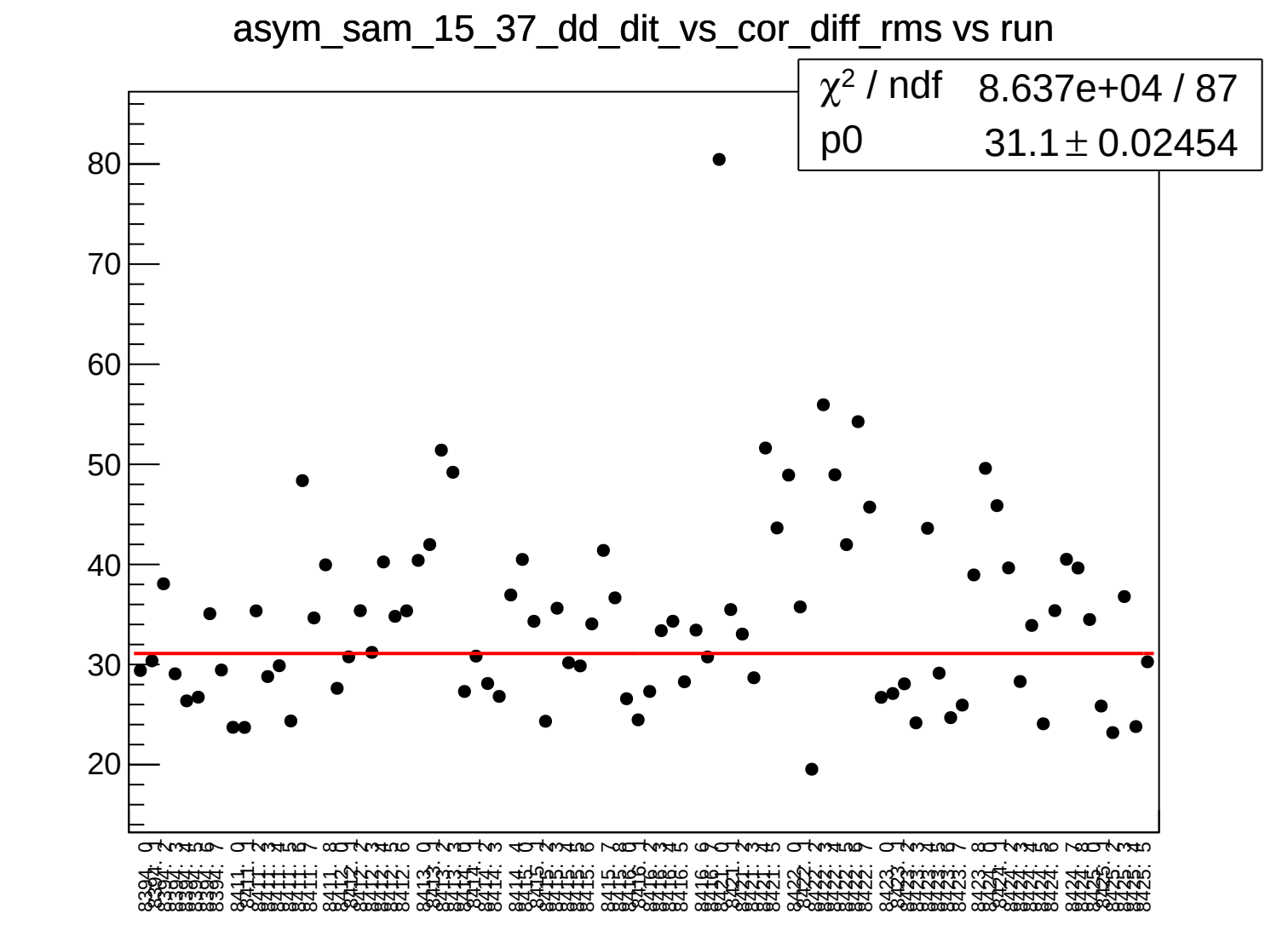

pull1D
Entries 88
Mean 0.0132
Std Dev 0.8557

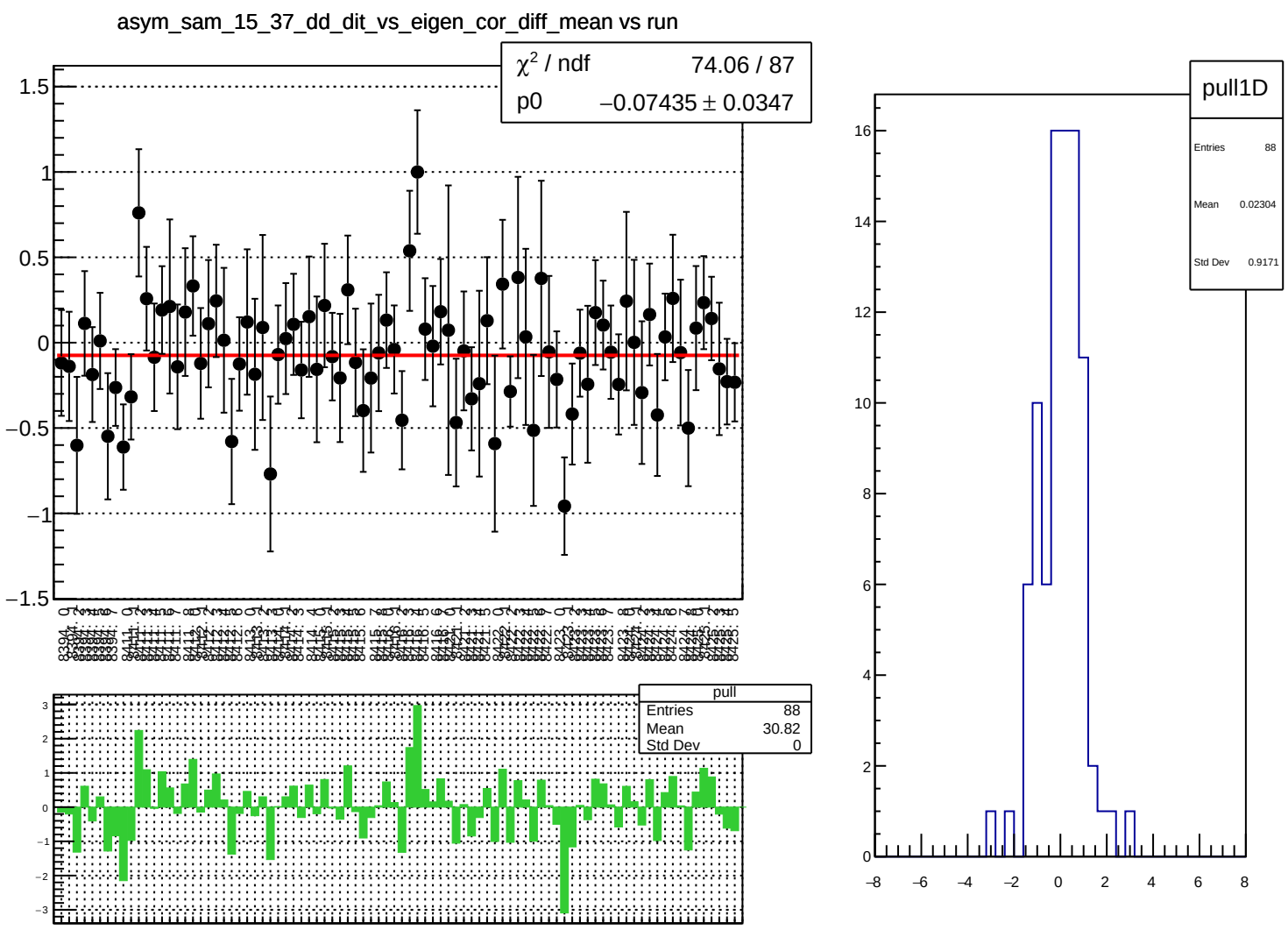

asym_sam_15_37_dd_rms vs run
χ² / ndf 2.515e+04 / 87
p0 956 ± 0.7403
1200
1100
1000
900
800
700

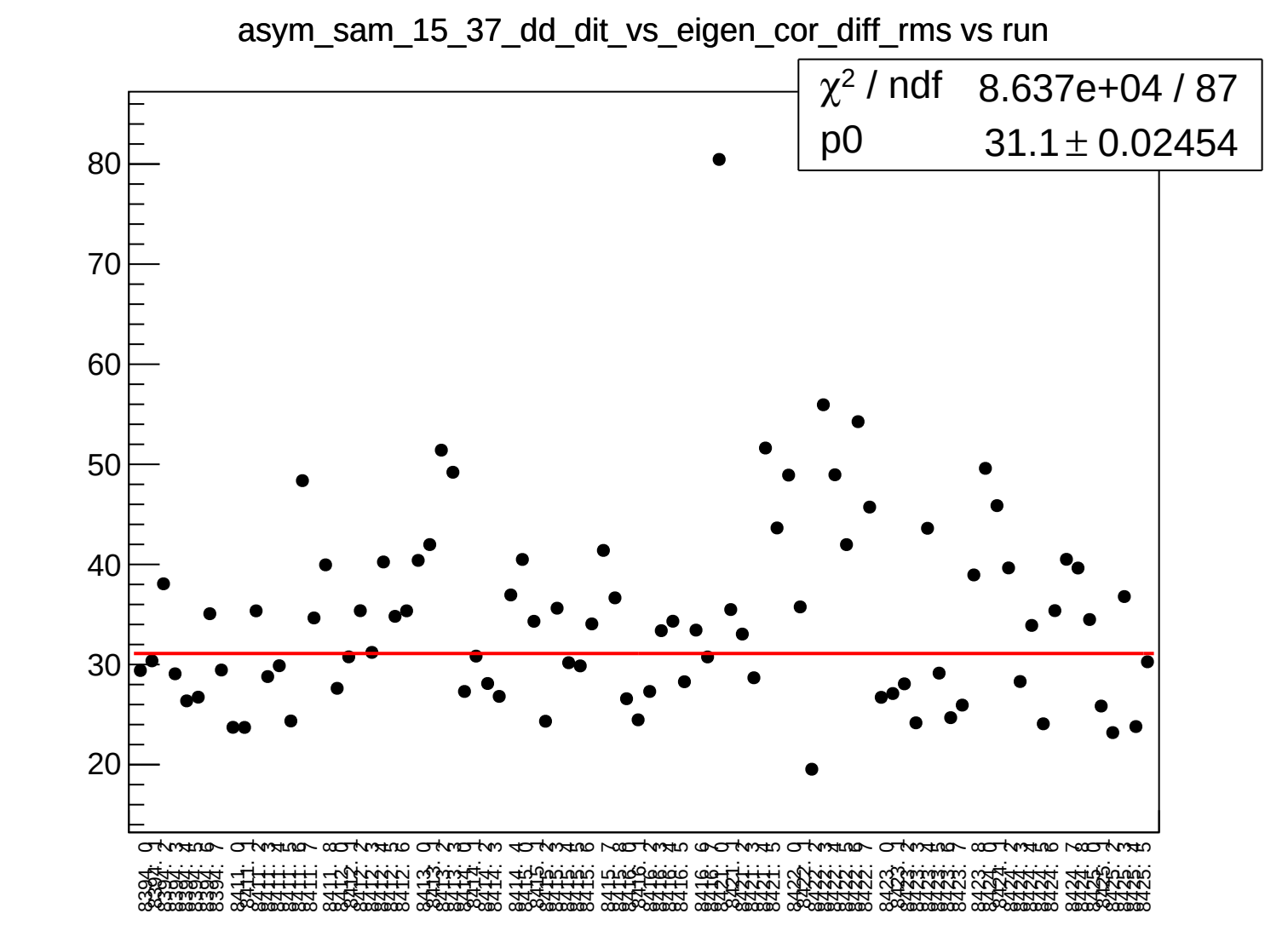

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 94.56 / 87
p0 5.286e−14 ± 1.401e−13
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 88
Mean −72.85
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.03756
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

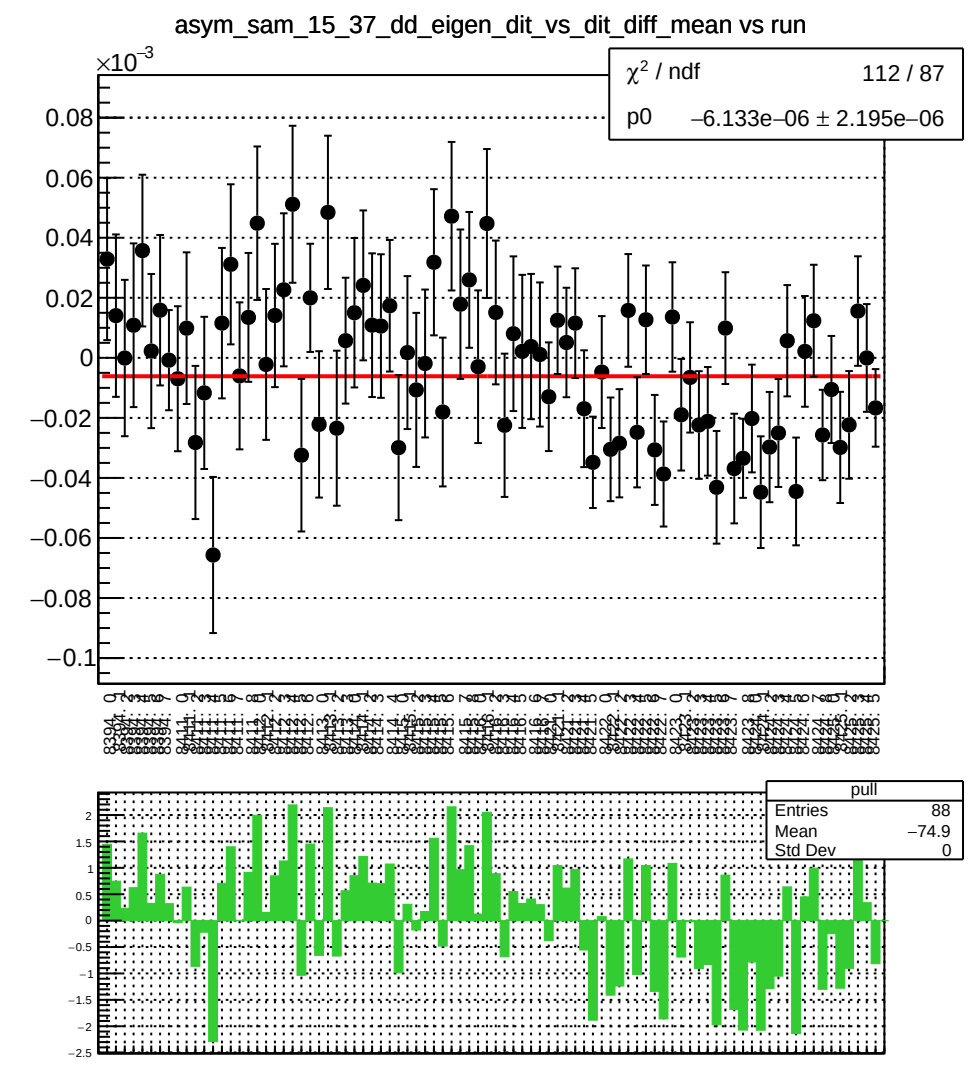

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.417e+05 / 87
p0 8.585e−11 ± 9.905e−14
0.05
0.04
0.03
0.02
0.01
0

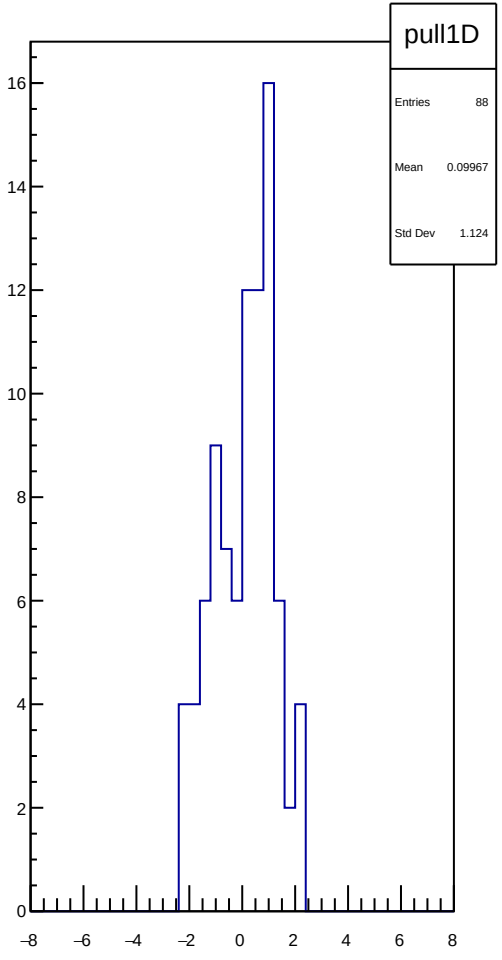

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 74.06 / 87
p0 −0.07435 ± 0.0347
pull
Entries 88
Mean 30.82
Std Dev 0
pull1D
Entries 88
Mean 0.02304
Std Dev 0.9171

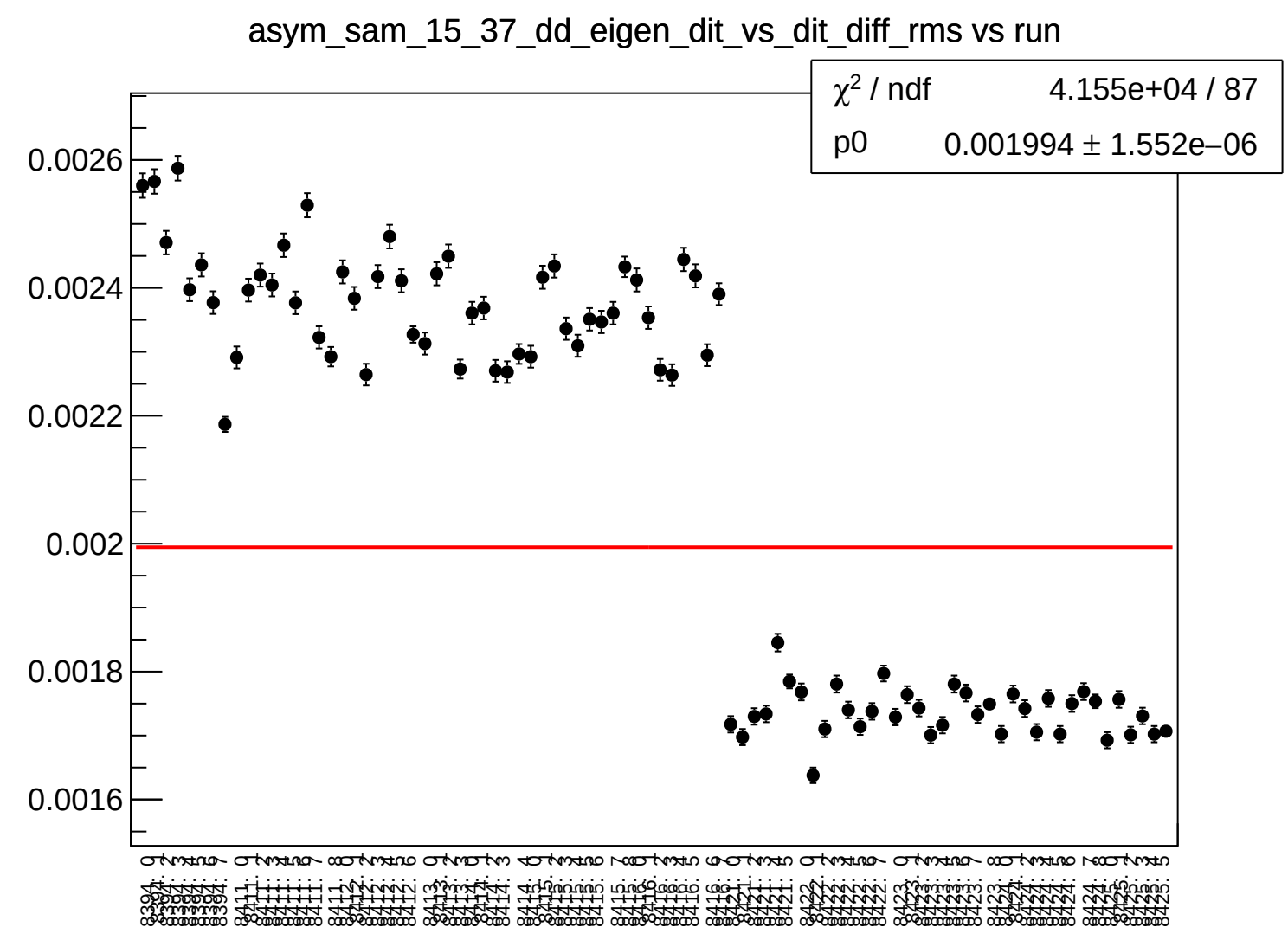

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.637e+04 / 87
p0 31.1 ± 0.02454
80
70
60
50
40
30
20

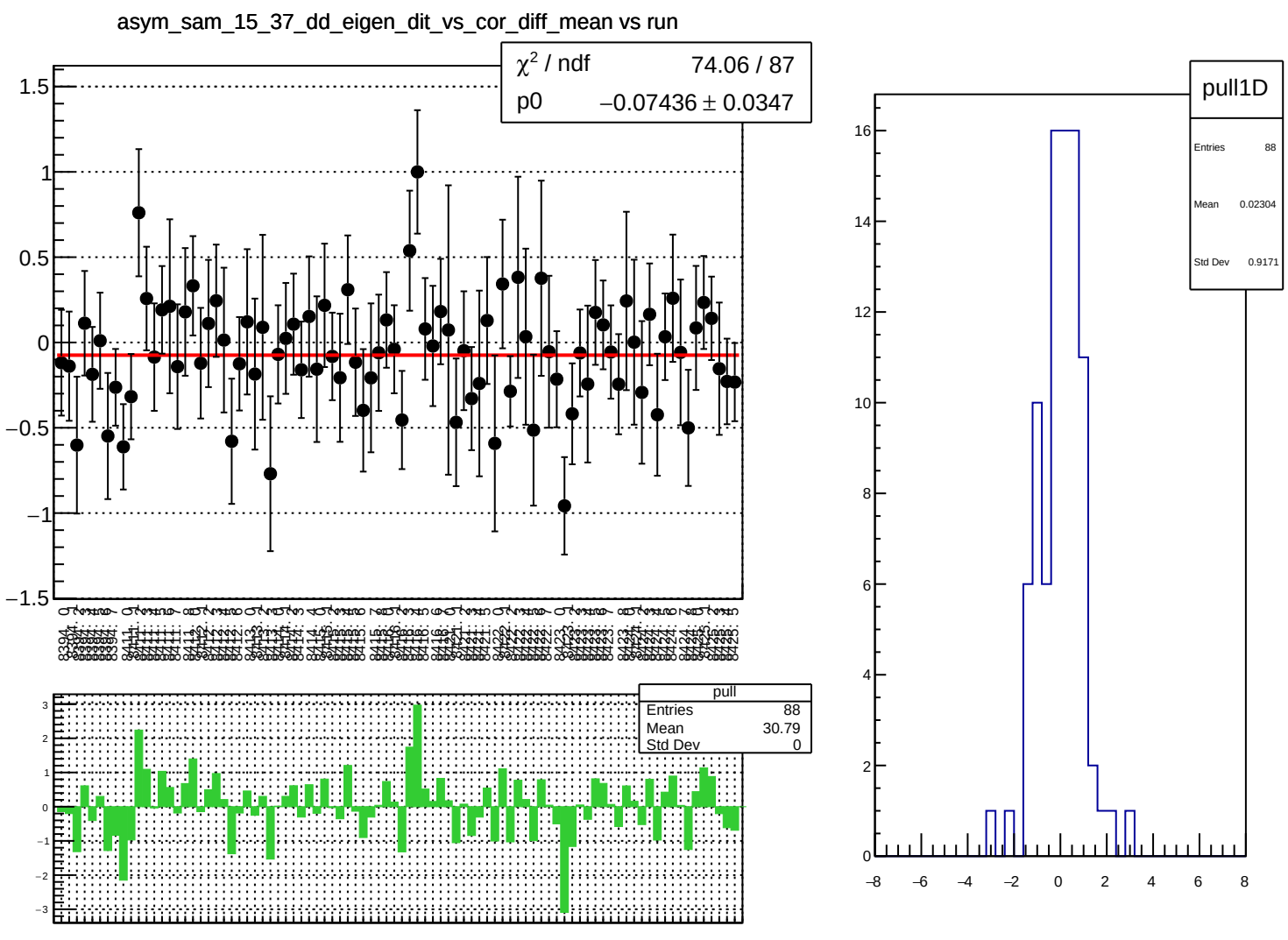

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.06 / 87
p0 −0.07435 ± 0.0347
pull
Entries 88
Mean 30.82
Std Dev 0
pull1D
Entries 88
Mean 0.02304
Std Dev 0.9171

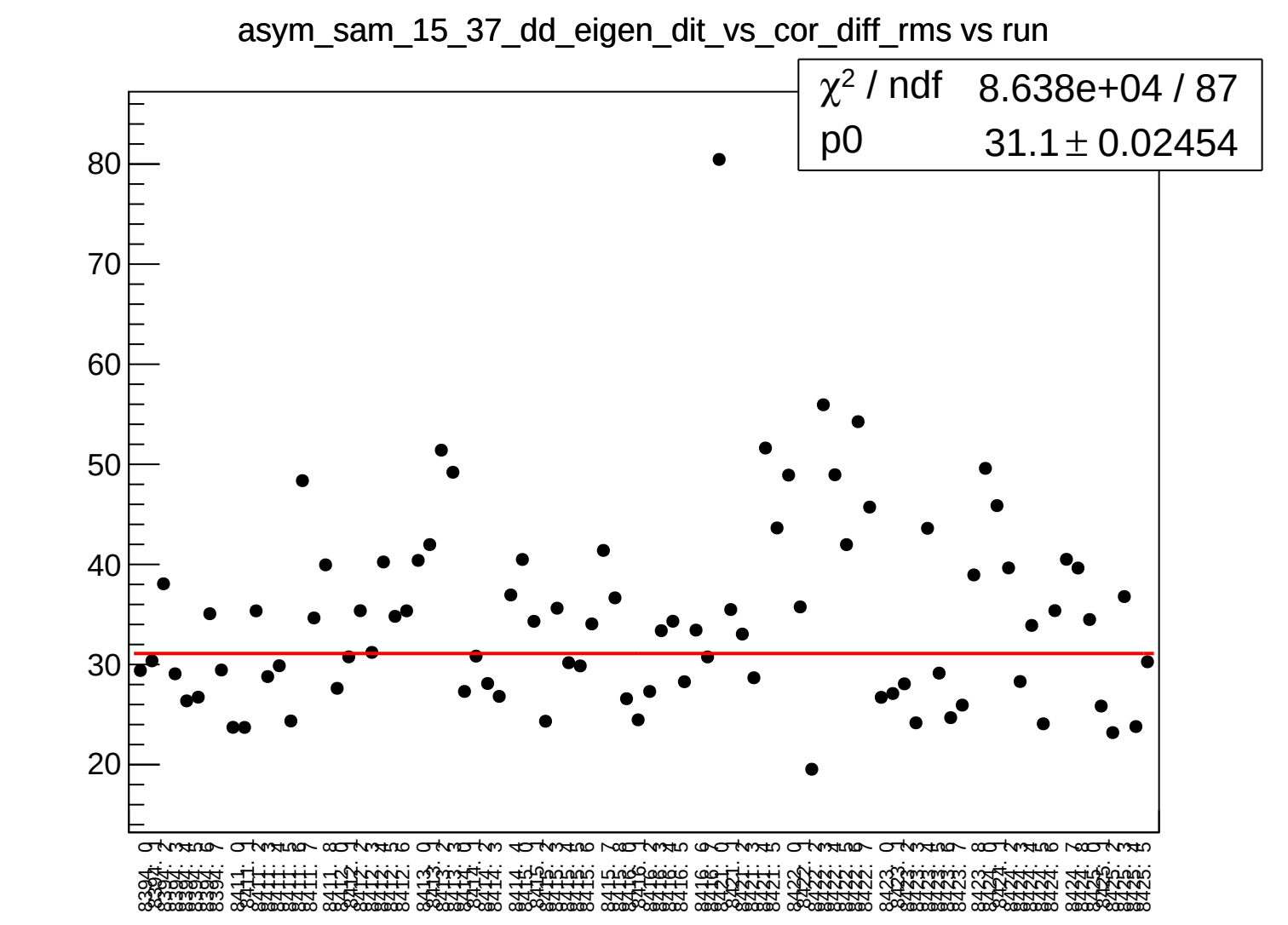

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.637e+04 / 87
p0 31.1 ± 0.02454
80
70
60
50
40
30
20

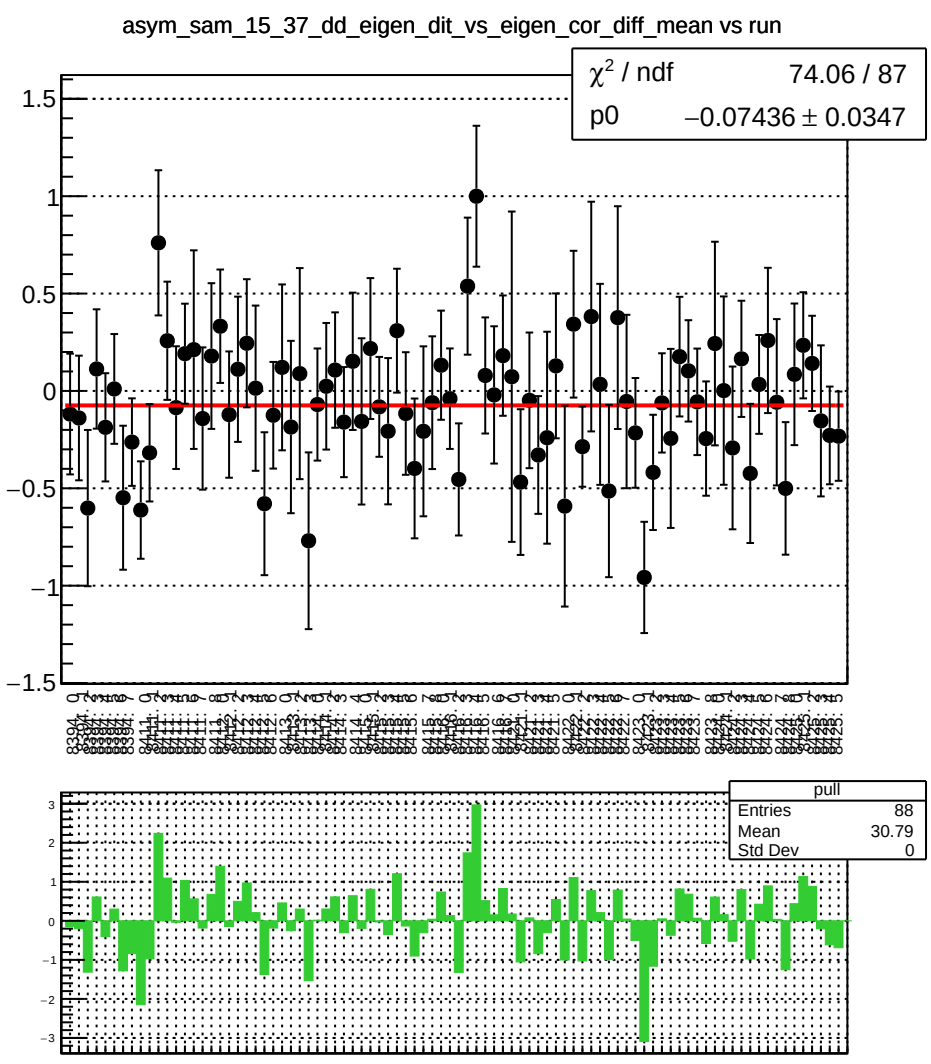

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 112 / 87
p0 −6.133e−06 ± 2.195e−06
pull
Entries 88
Mean −74.9
Std Dev 0

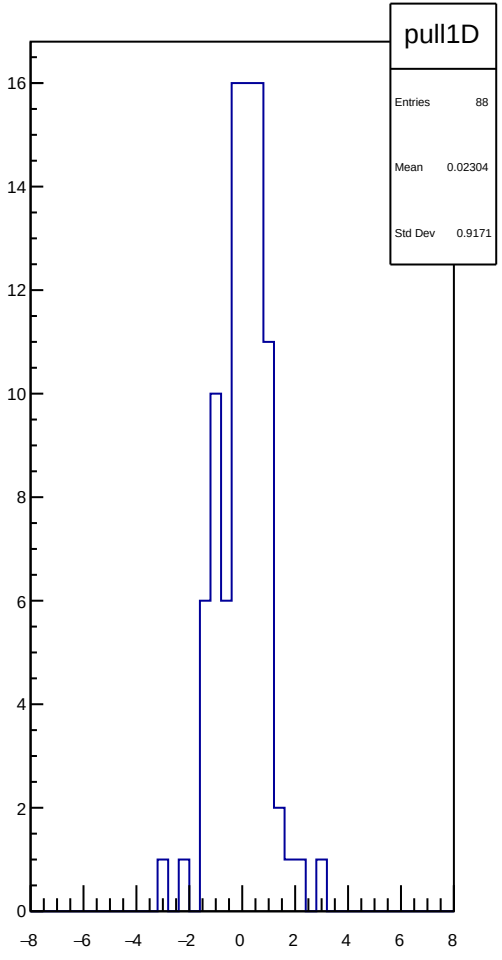

pull1D
Entries 88
Mean 0.09967
Std Dev 1.124

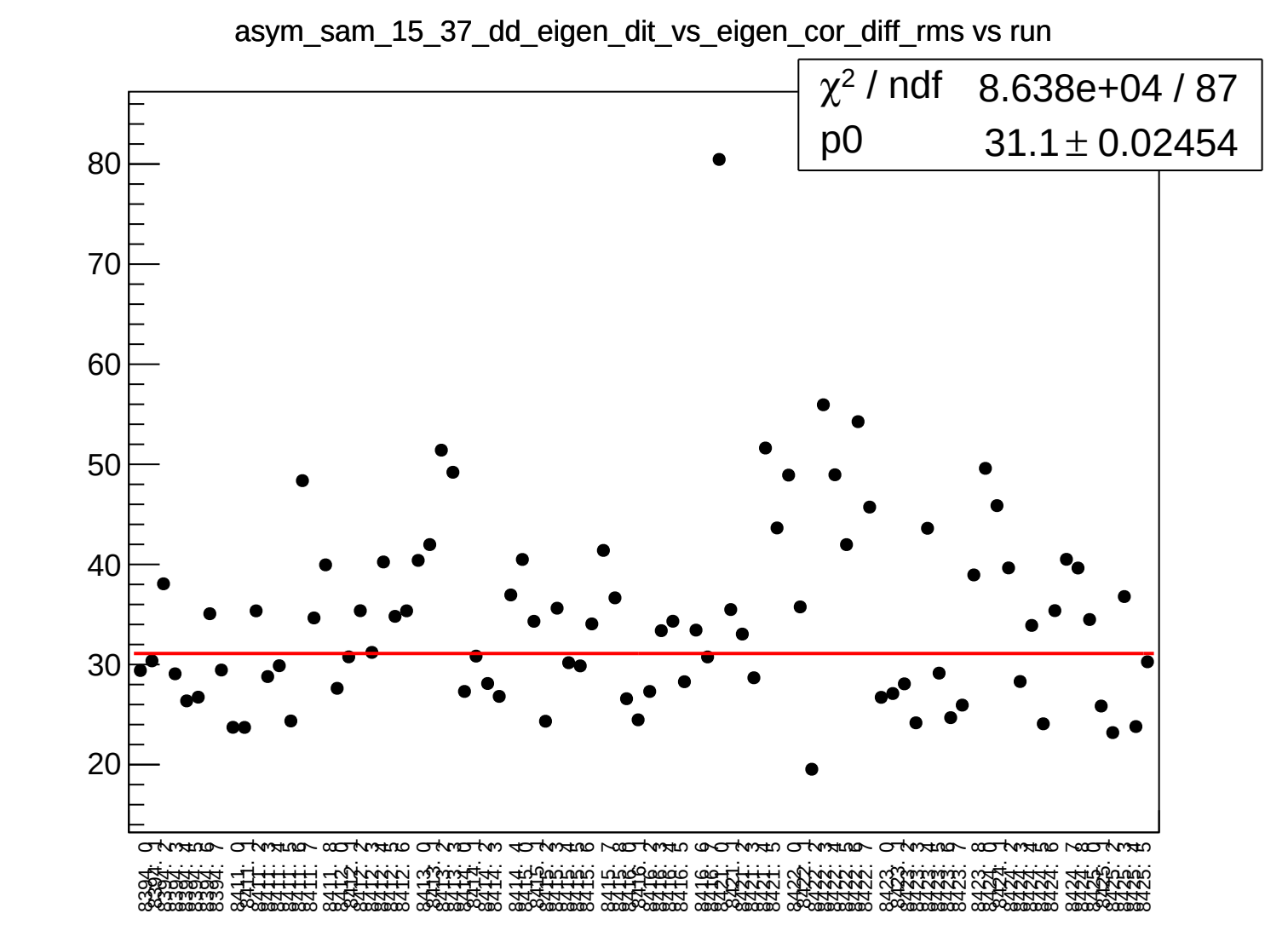

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.155e+04 / 87
p0 0.001994 ± 1.552e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016

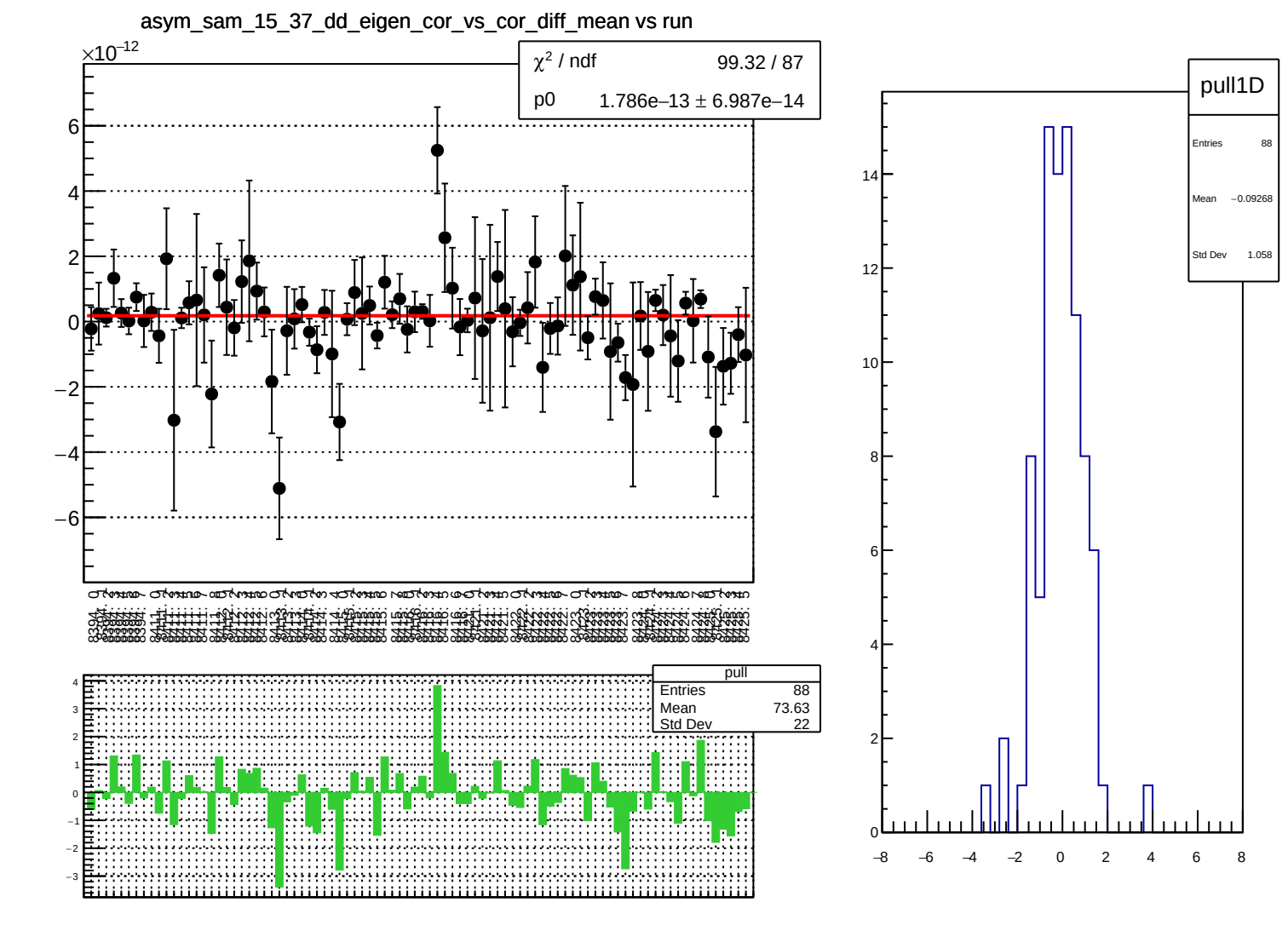

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.06 / 87
p0 −0.07436 ± 0.0347
pull
Entries 88
Mean 30.79
Std Dev 0
pull1D
Entries 88
Mean 0.02304
Std Dev 0.9171

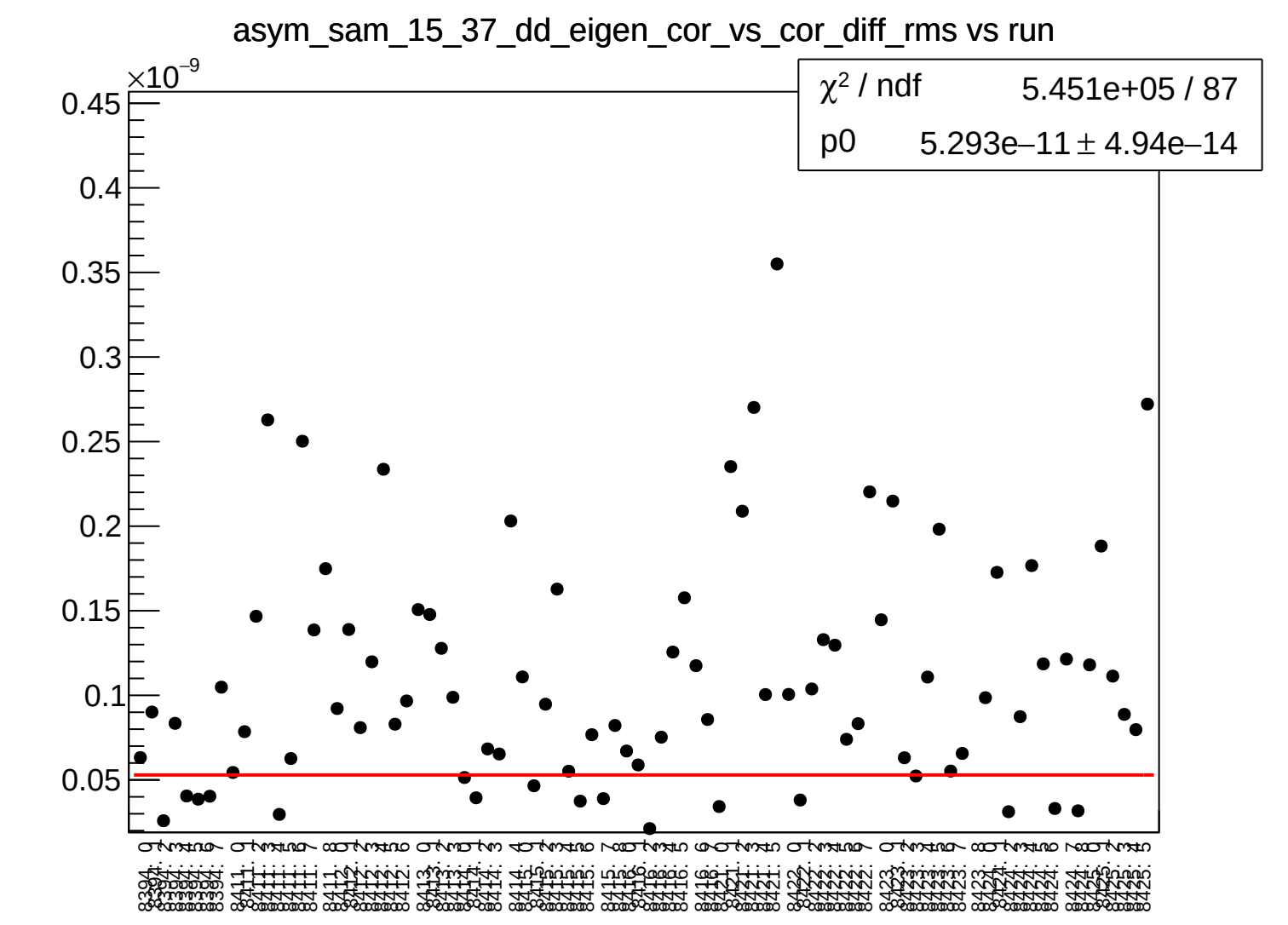

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.638e+04 / 87
p0 31.1 ± 0.02454
80
70
60
50
40
30
20

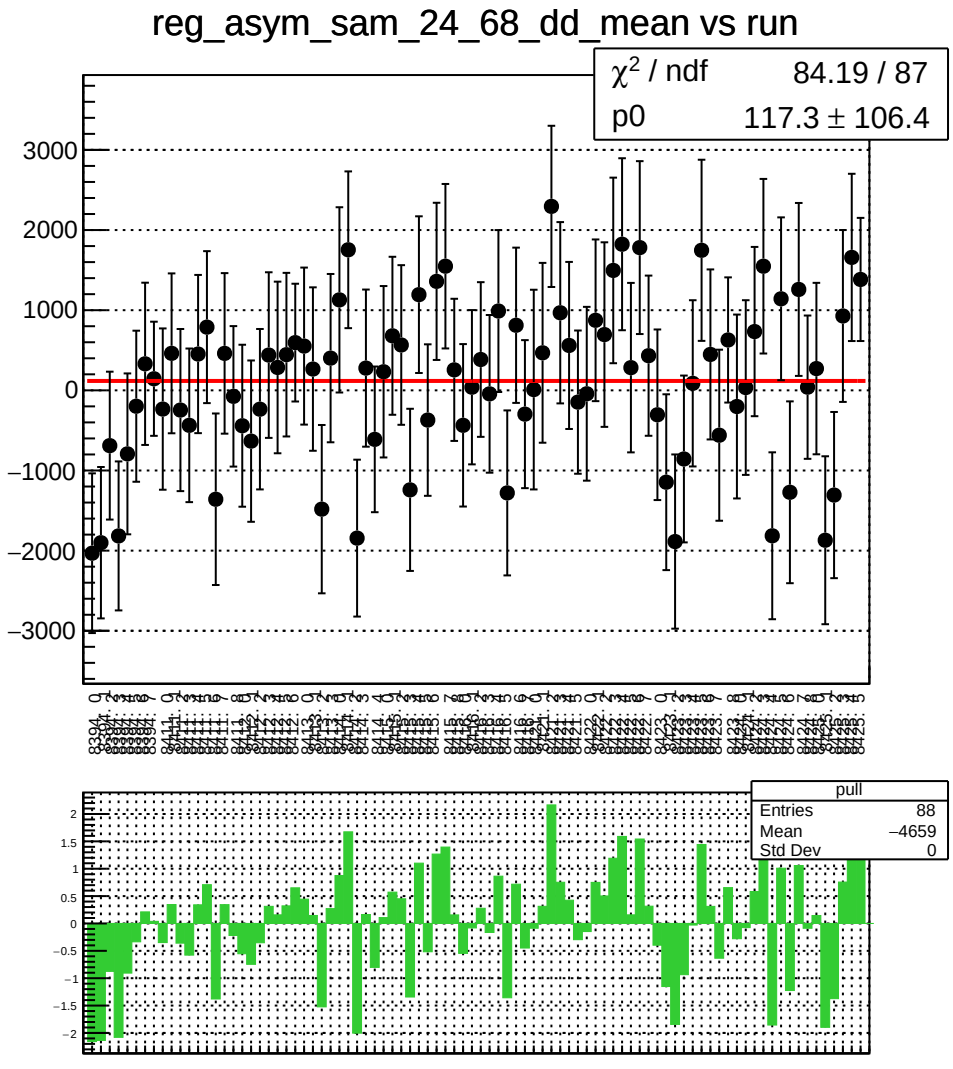

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.06 / 87
p0 −0.07436 ± 0.0347
pull
Entries 88
Mean 30.79
Std Dev 0

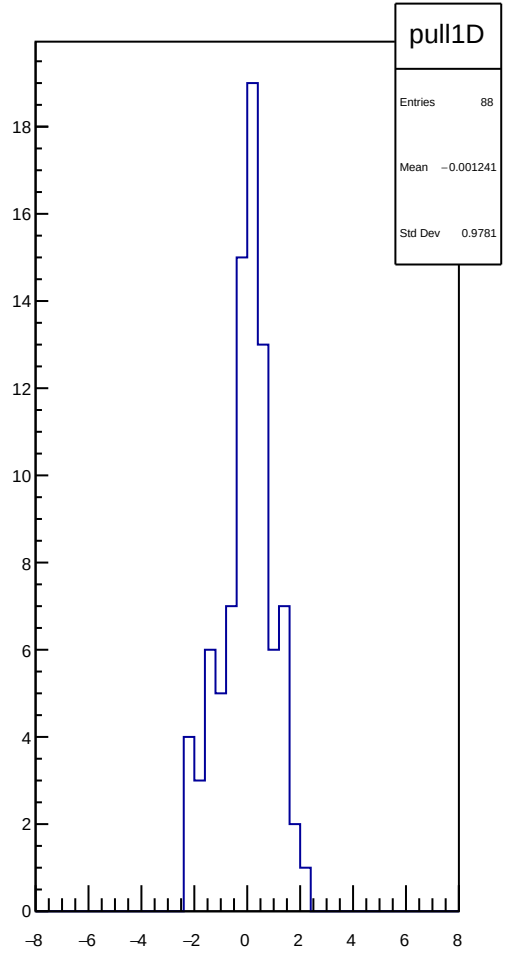

pull1D
Entries 88
Mean 0.02304
Std Dev 0.9171

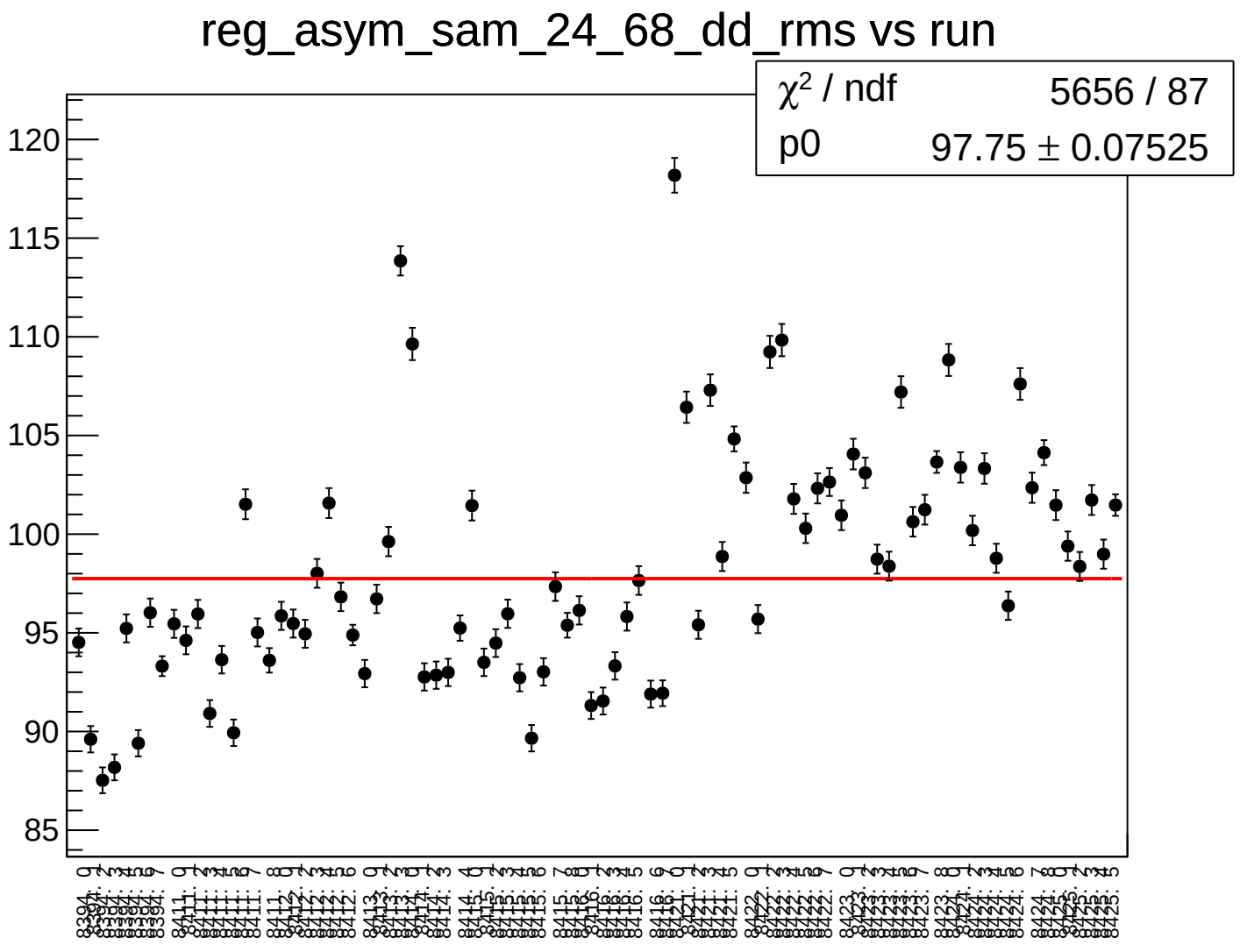

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.638e+04 / 87
p0 31.1 ± 0.02454
80
70
60
50
40
30
20

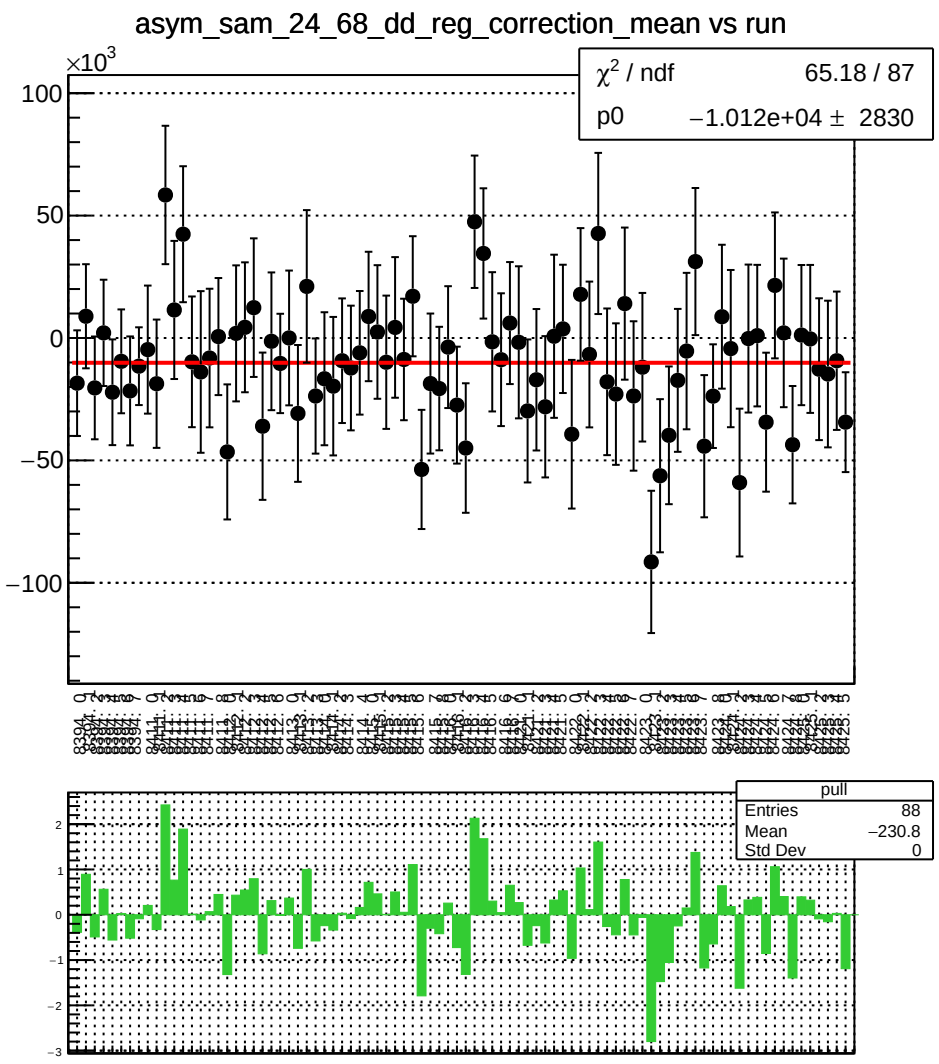

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 99.32 / 87
p0 1.786e−13 ± 6.987e−14
pull
Entries 88
Mean 73.63
Std Dev 22
pull1D
Entries 88
Mean −0.09268
Std Dev 1.058

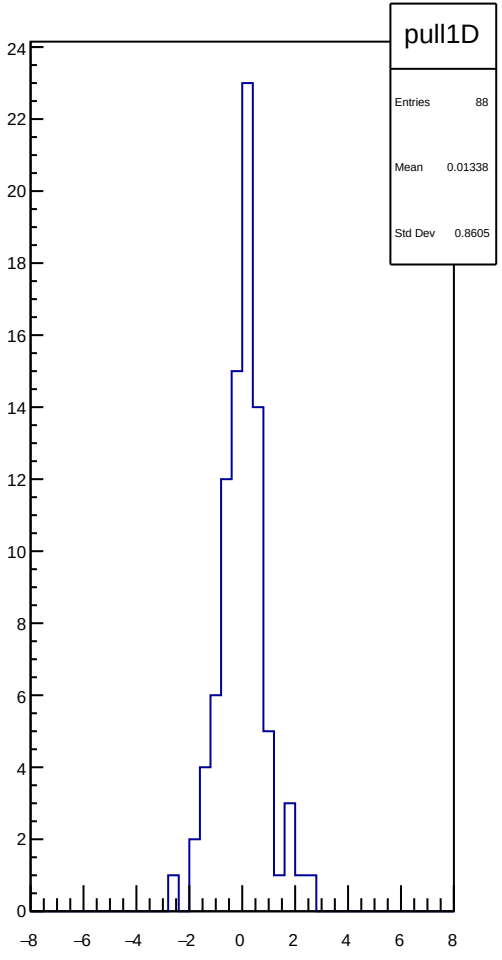

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.451e+05 / 87
p0 5.293e−11 ± 4.94e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

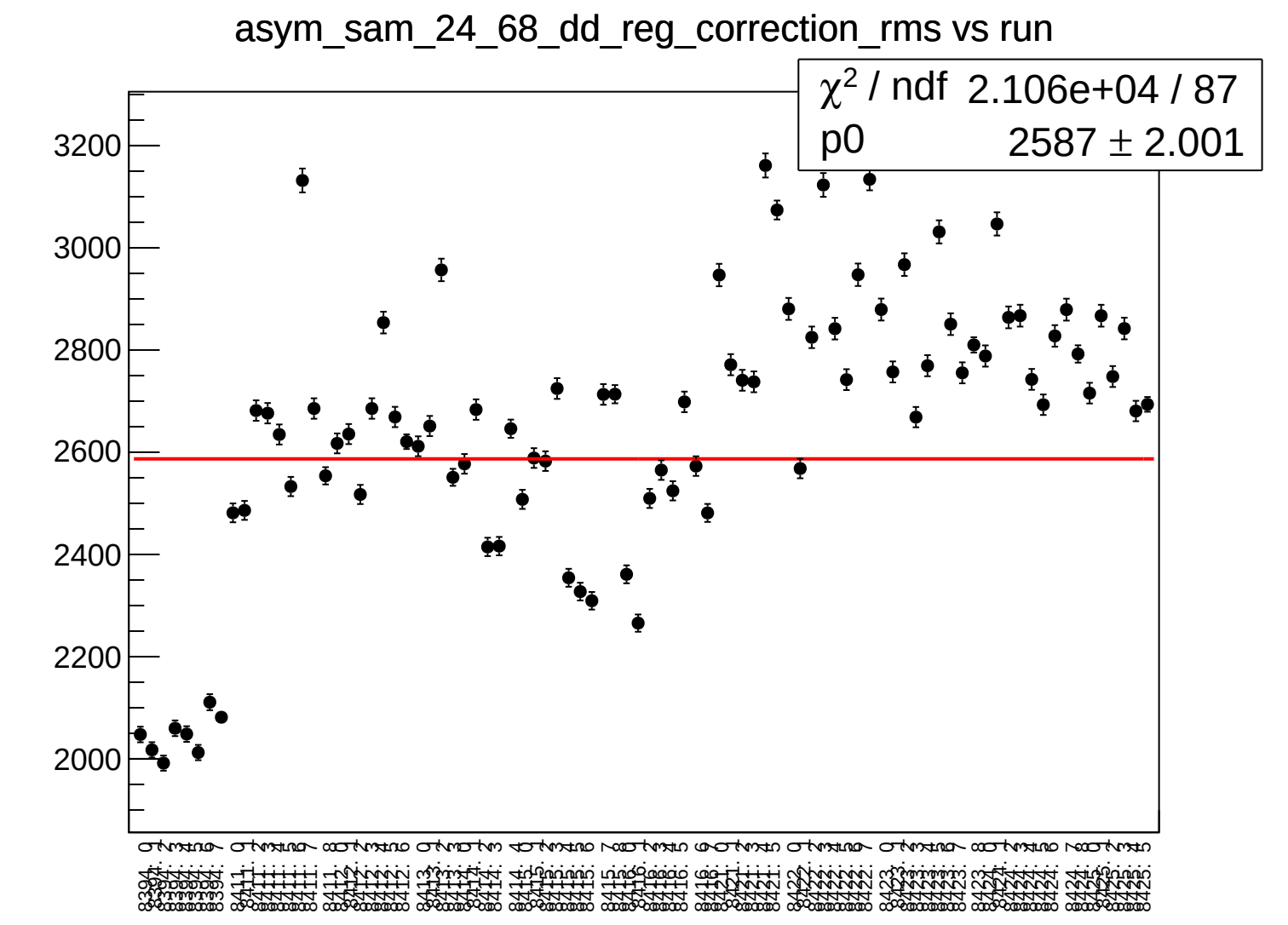

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 84.19 / 87
p0 117.3 ± 106.4
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean −4659
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

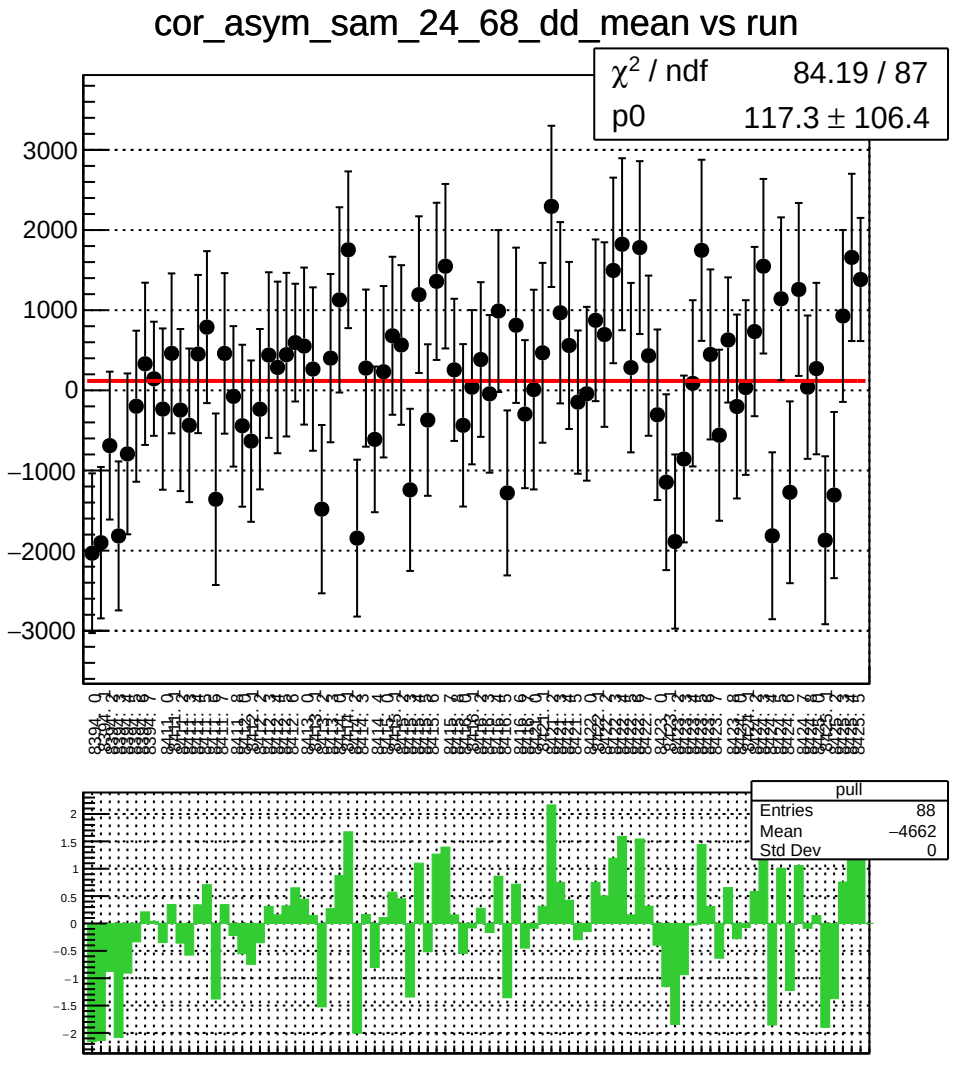

pull1D
Entries 88
Mean −0.001241
Std Dev 0.9781
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

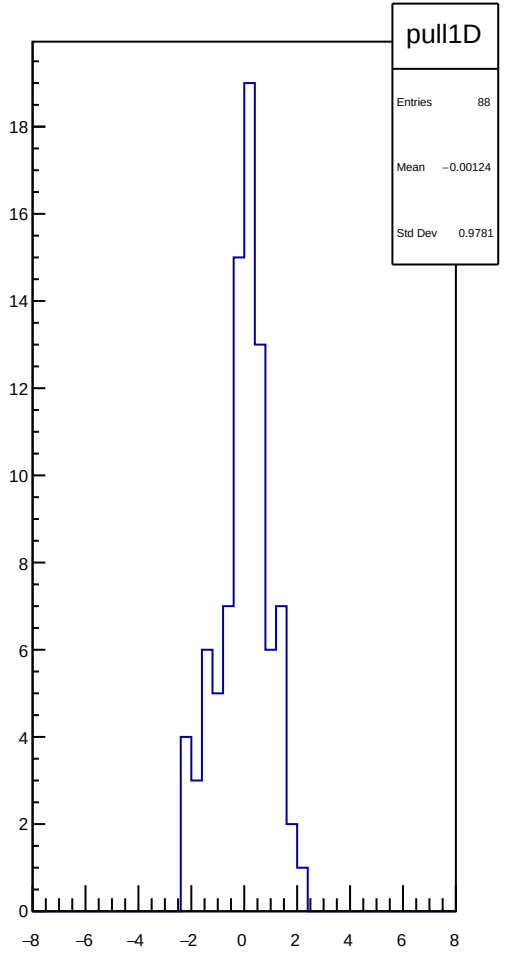

reg_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 5656 / 87
p0 97.75 ± 0.07525
120
115
110
105
100
95
90
85

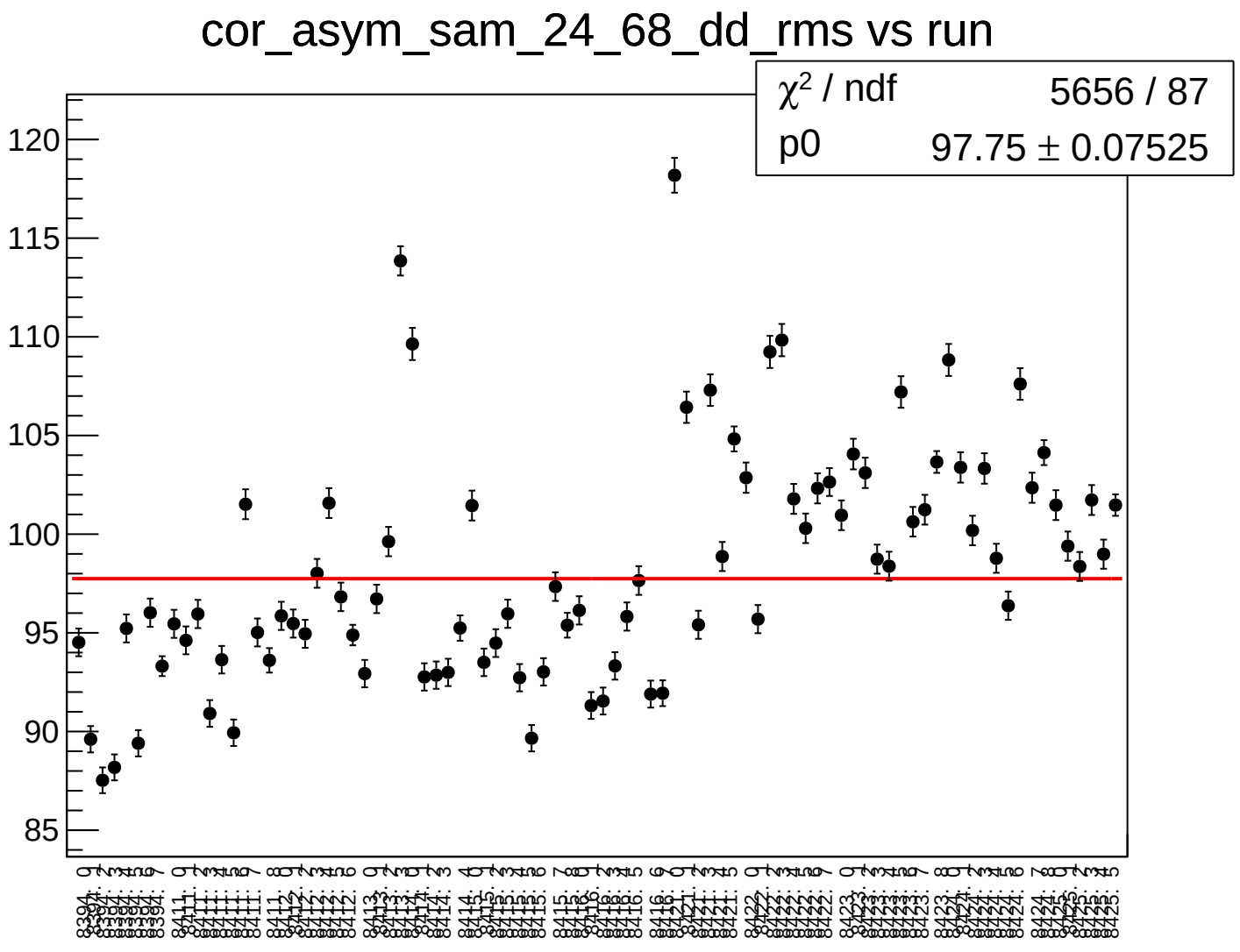

asym_sam_24_68_dd_reg_correction_mean vs run
×10^3
χ² / ndf 65.18 / 87
p0 −1.012e+04 ± 2830
pull
Entries 88
Mean −230.8
Std Dev 0

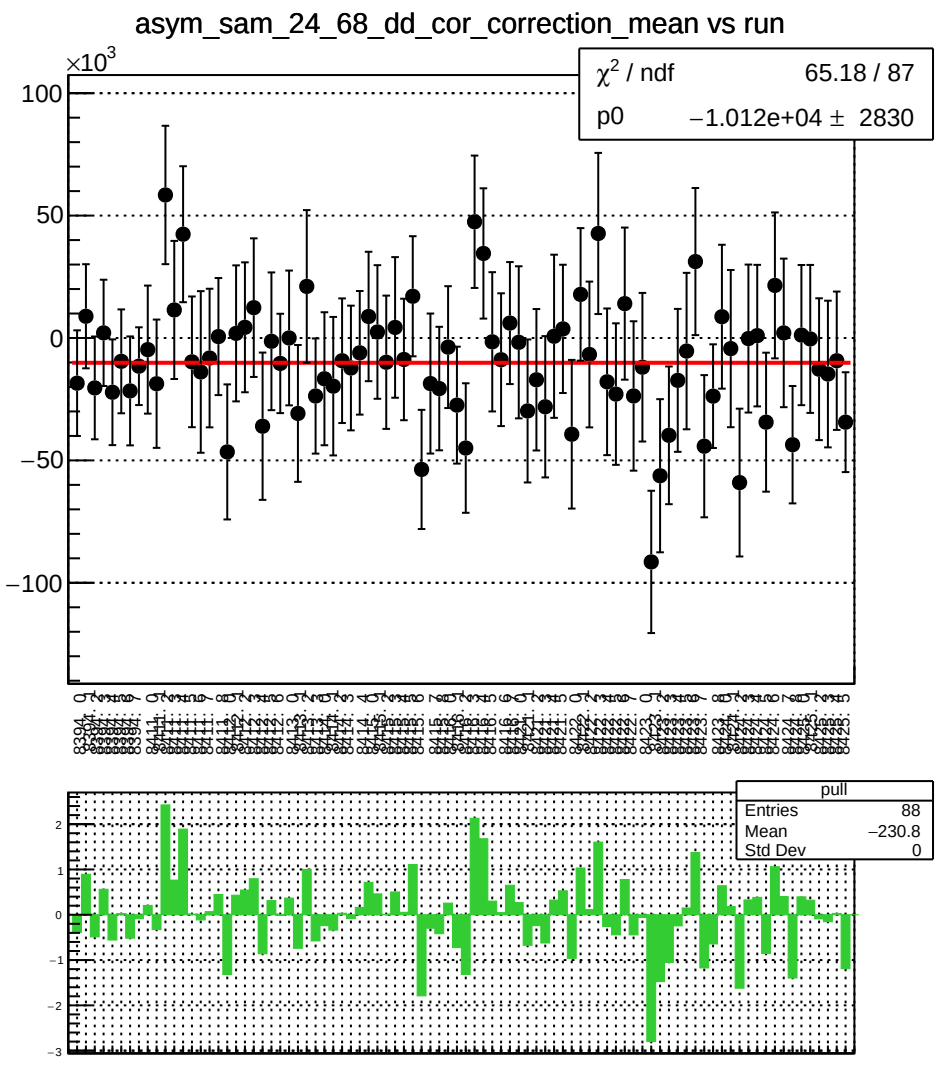

pull1D
Entries 88
Mean 0.01338
Std Dev 0.8605

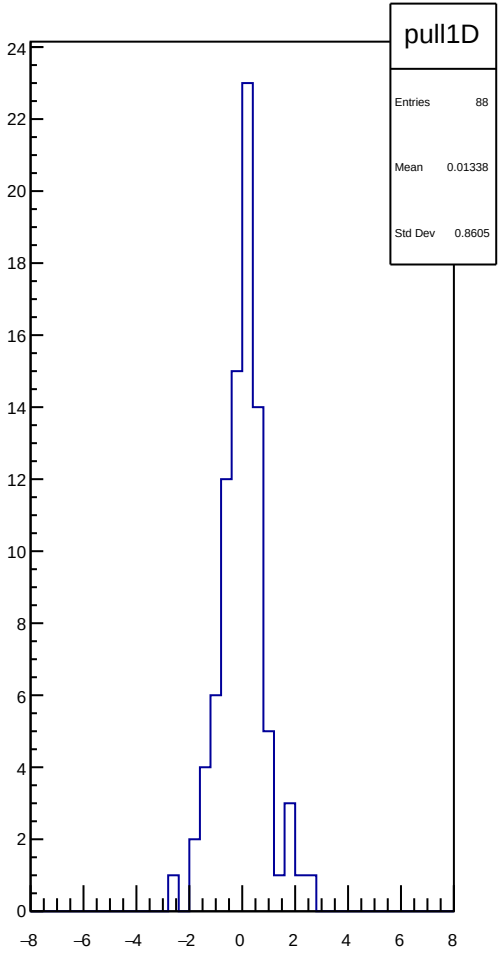

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 2.106e+04 / 87
p0 2587 ± 2.001
3200
3000
2800
2600
2400
2200
2000

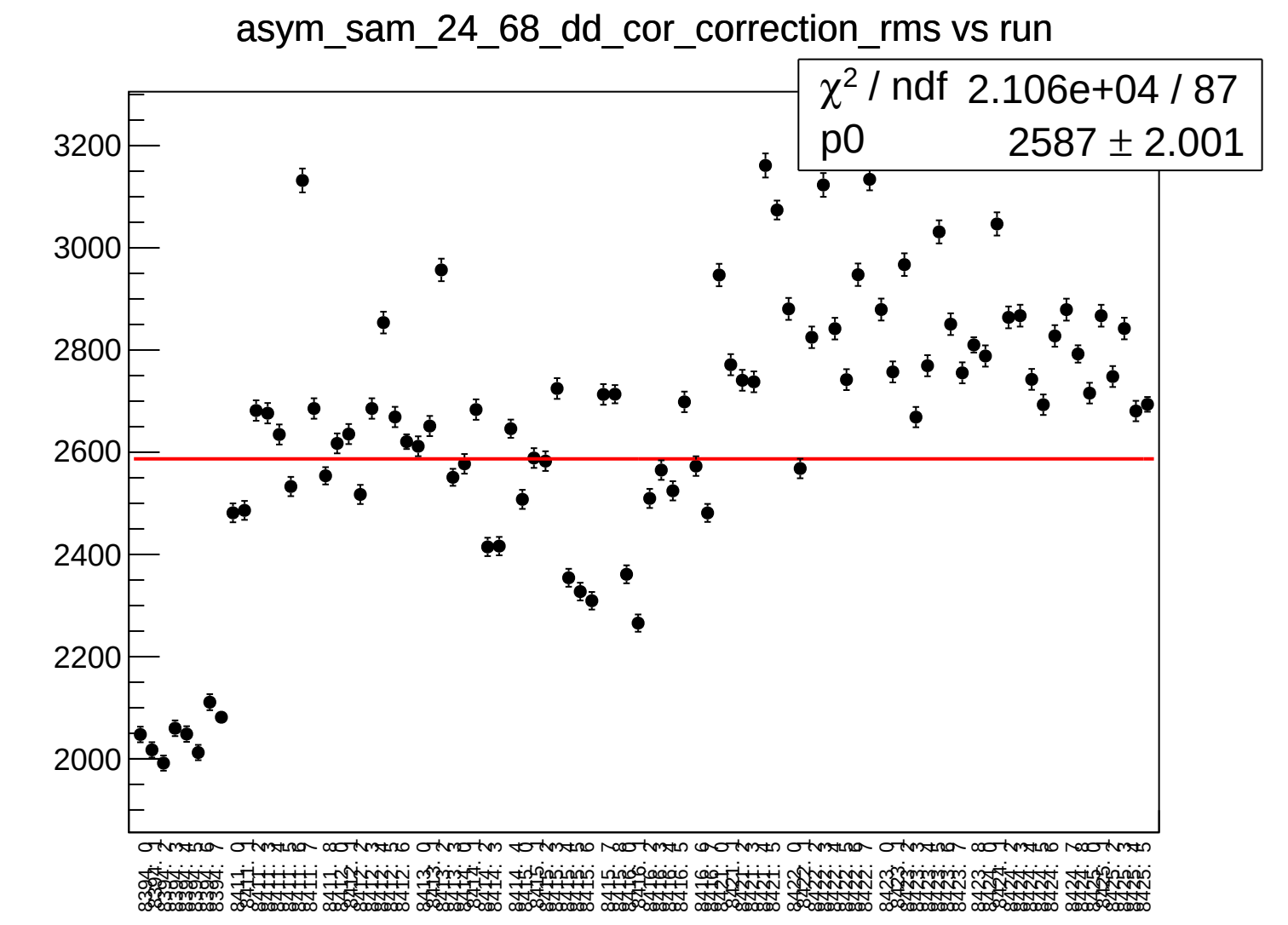

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 84.19 / 87
p0 117.3 ± 106.4
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean −4662
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

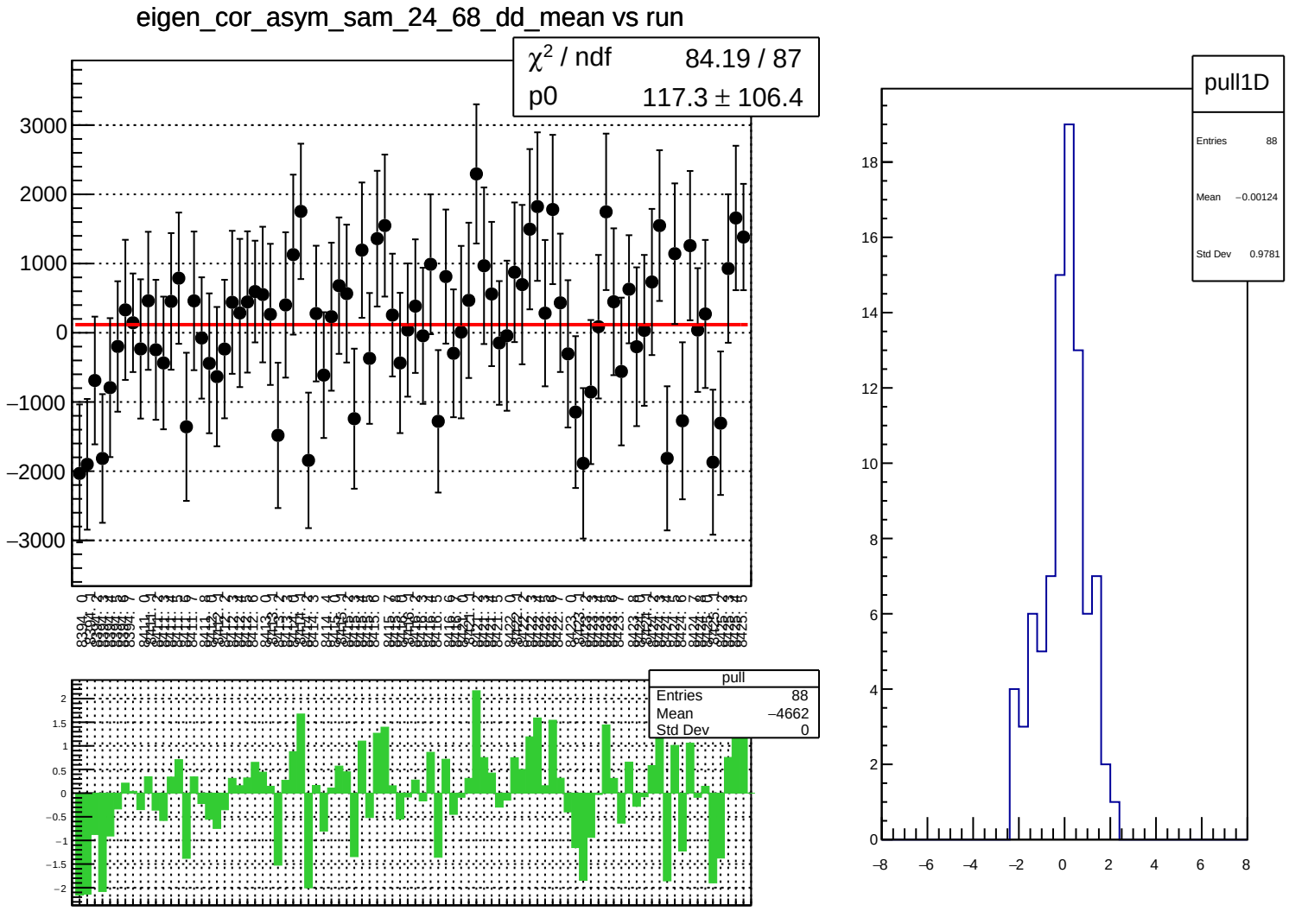

pull1D
Entries 88
Mean −0.00124
Std Dev 0.9781
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

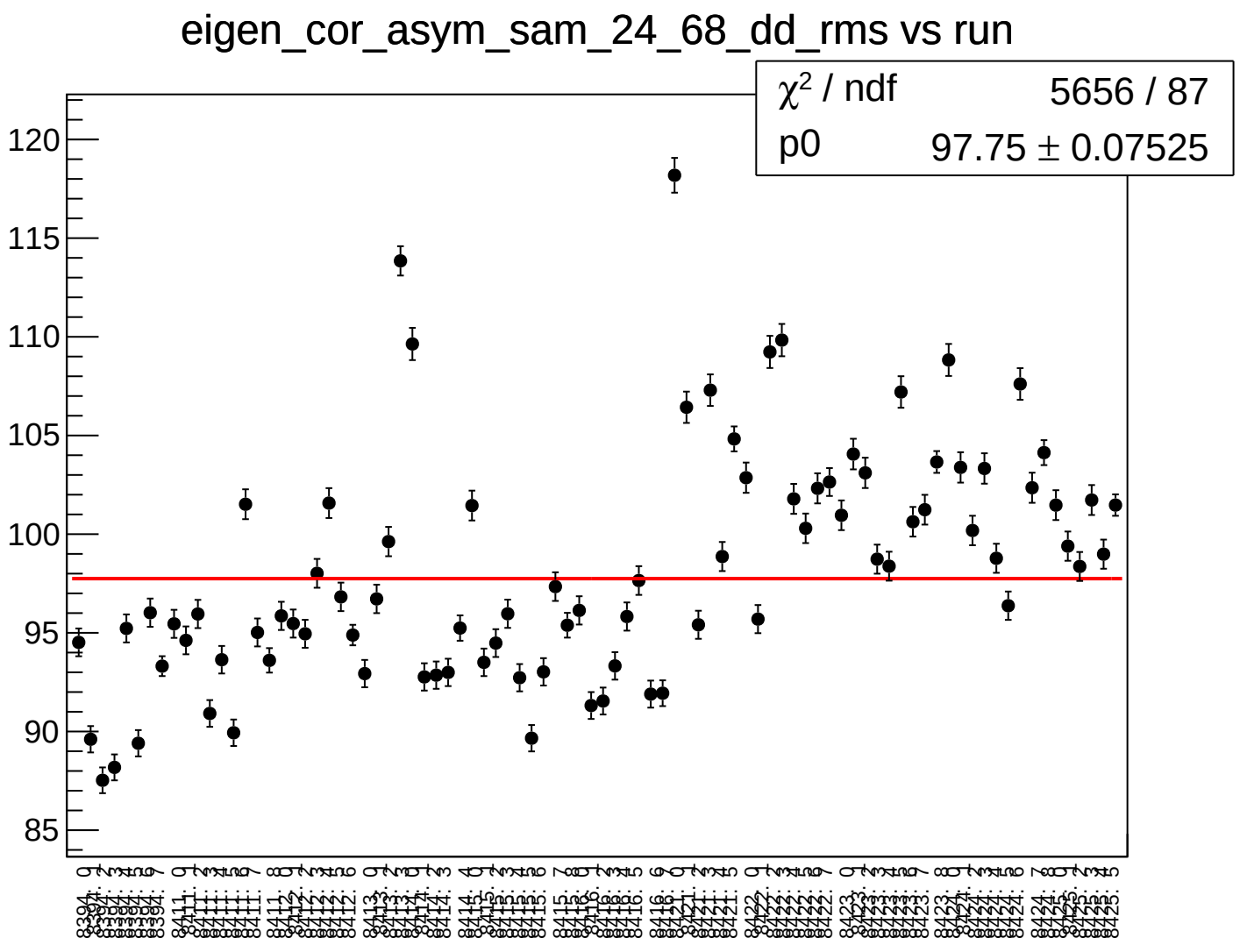

cor_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 5656 / 87
p0 97.75 ± 0.07525
120
115
110
105
100
95
90
85

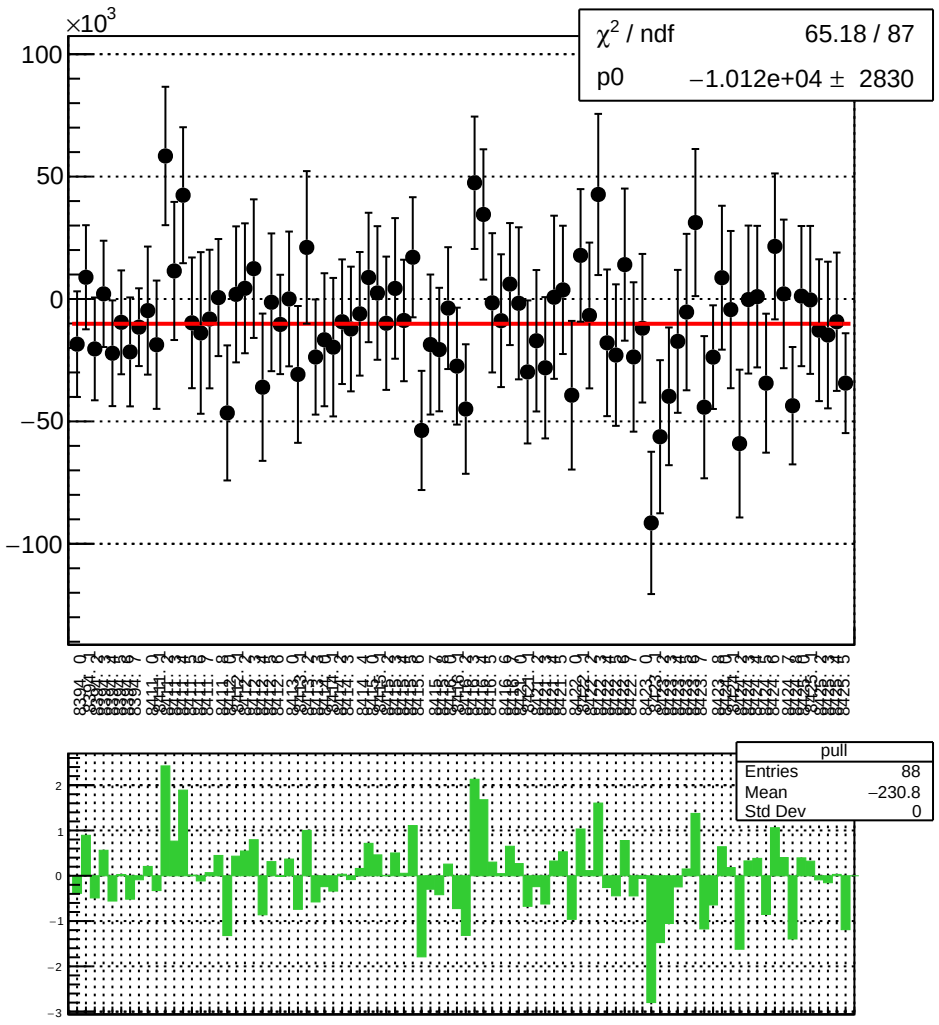

asym_sam_24_68_dd_cor_correction_mean vs run
×10^3
χ² / ndf 65.18 / 87
p0 −1.012e+04 ± 2830
pull
Entries 88
Mean −230.8
Std Dev 0

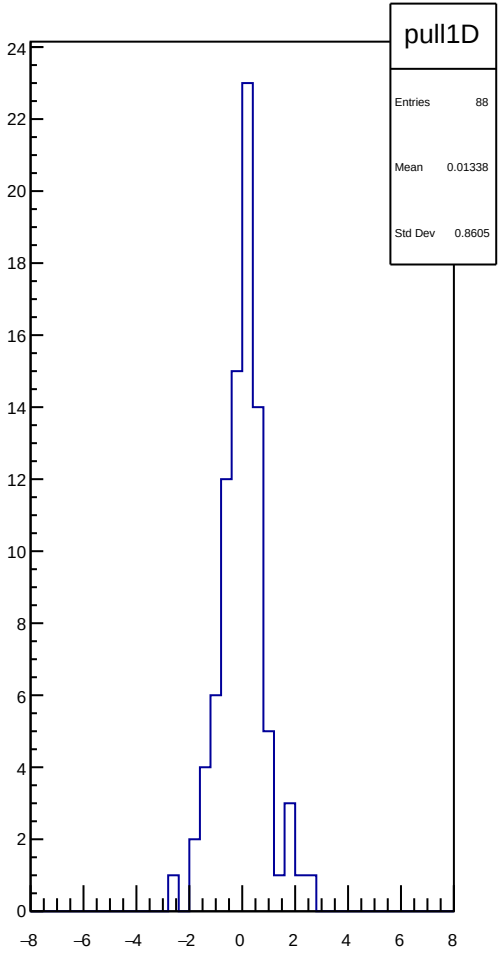

pull1D
Entries 88
Mean 0.01338
Std Dev 0.8605

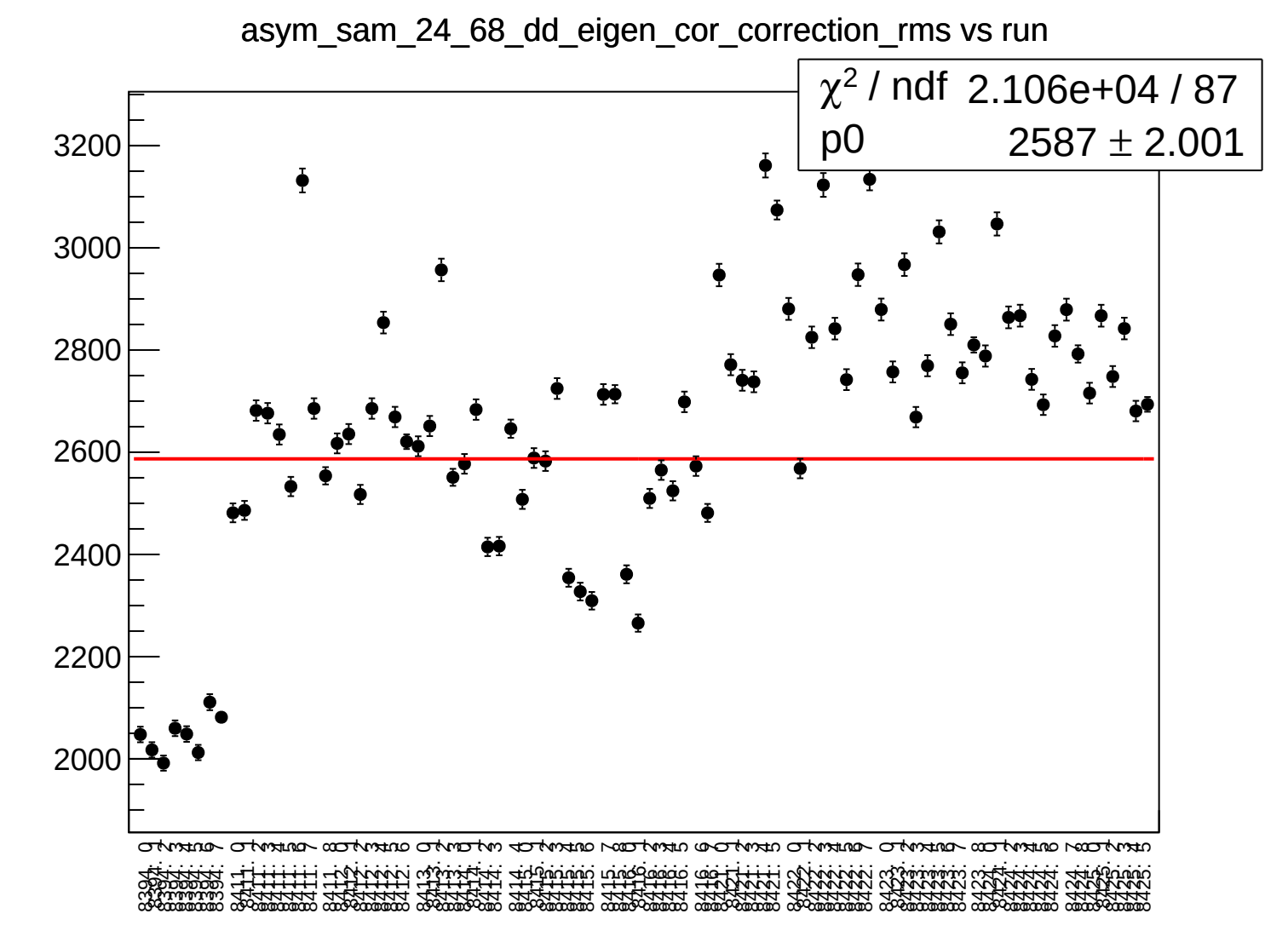

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 2.106e+04 / 87
p0 2587 ± 2.001
3200
3000
2800
2600
2400
2200
2000

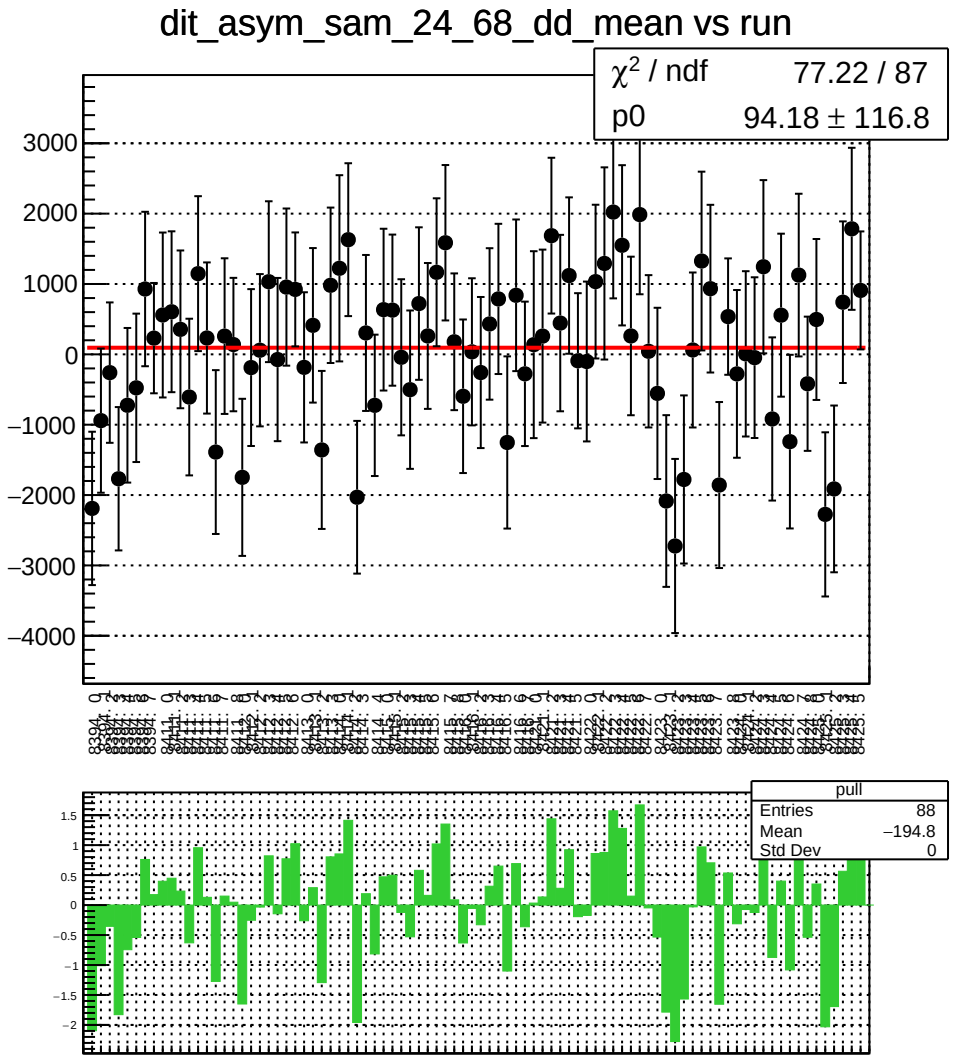

eigen_cor_asym_sam_24_68_dd_mean vs run
χ^2 / ndf 84.19 / 87
p0 117.3 ± 106.4
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean −4662
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.00124
Std Dev 0.9781
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

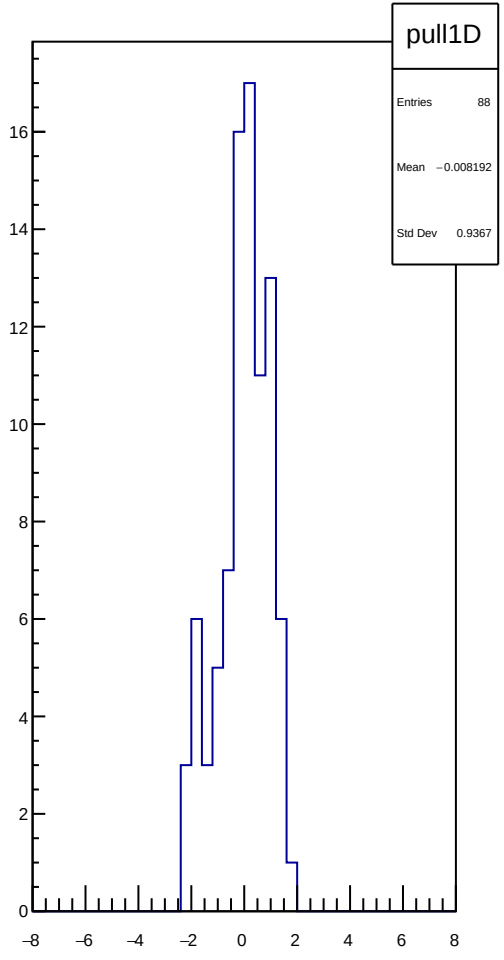

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 5656 / 87
p0 97.75 ± 0.07525
120
115
110
105
100
95
90
85

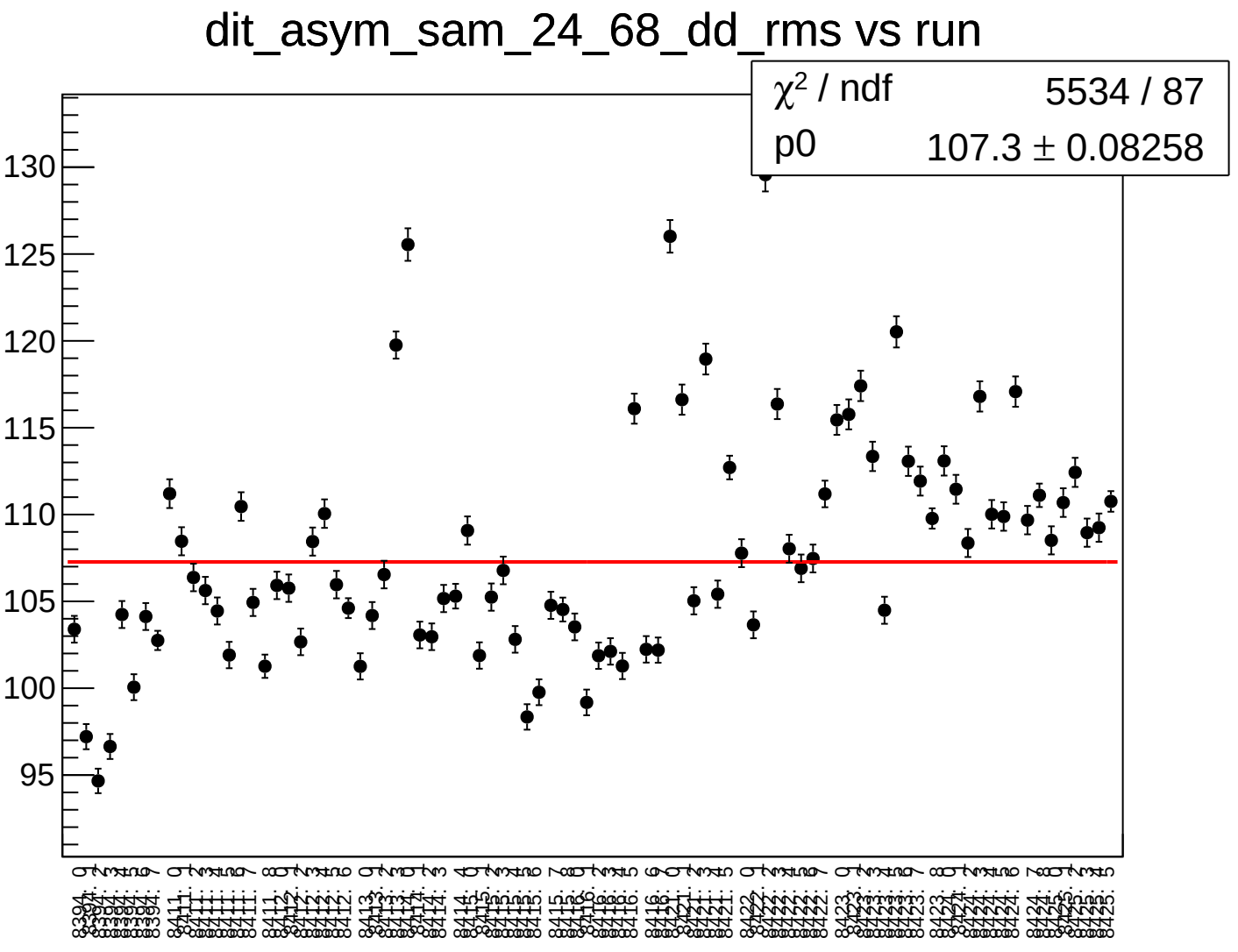

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 65.18 / 87
p0 −1.012e+04 ± 2830
pull
Entries 88
Mean −230.8
Std Dev 0

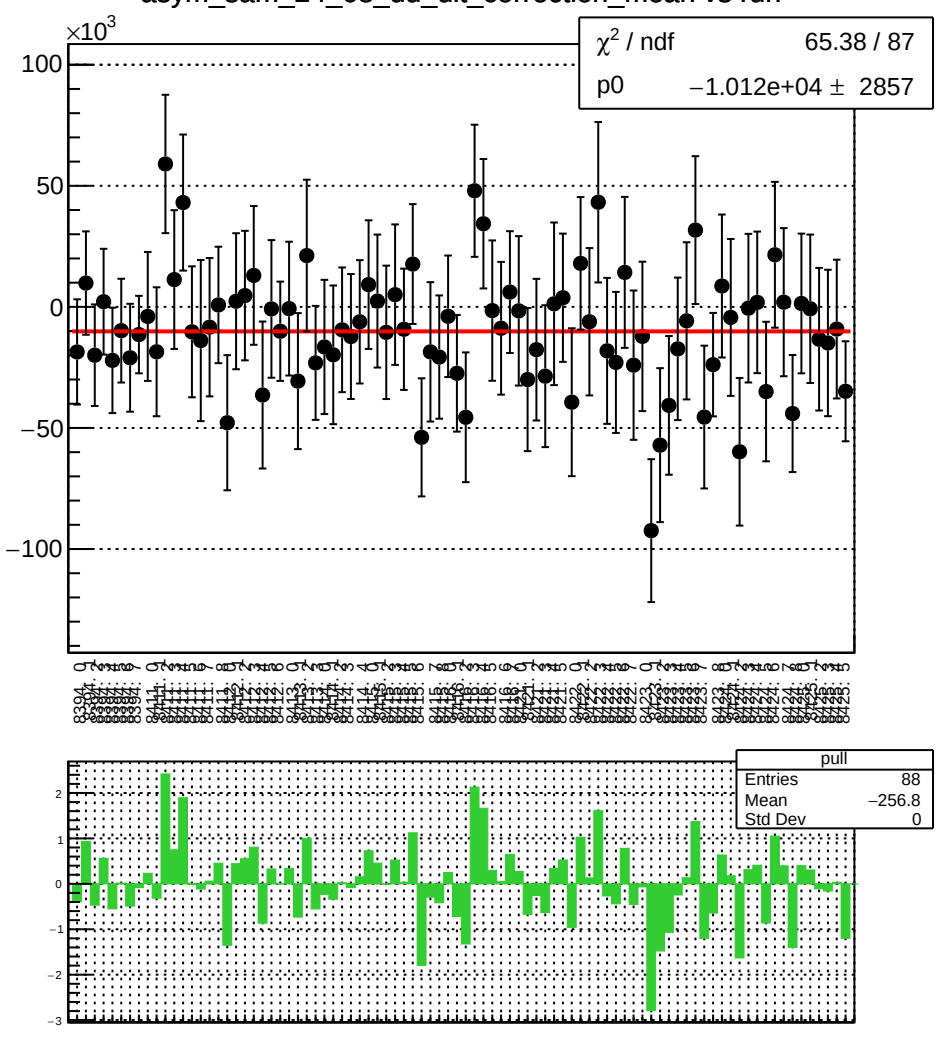

pull1D
Entries 88
Mean 0.01338
Std Dev 0.8605

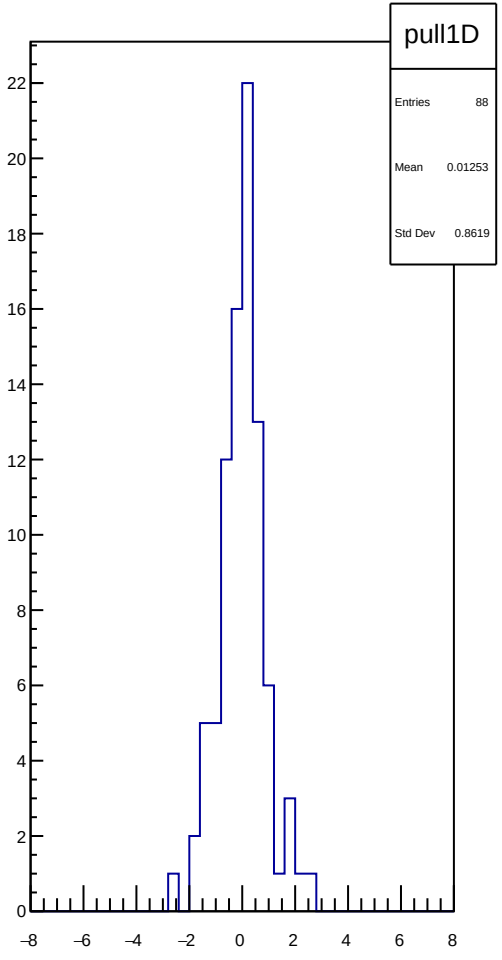

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.106e+04 / 87
p0 2587 ± 2.001
3200
3000
2800
2600
2400
2200
2000

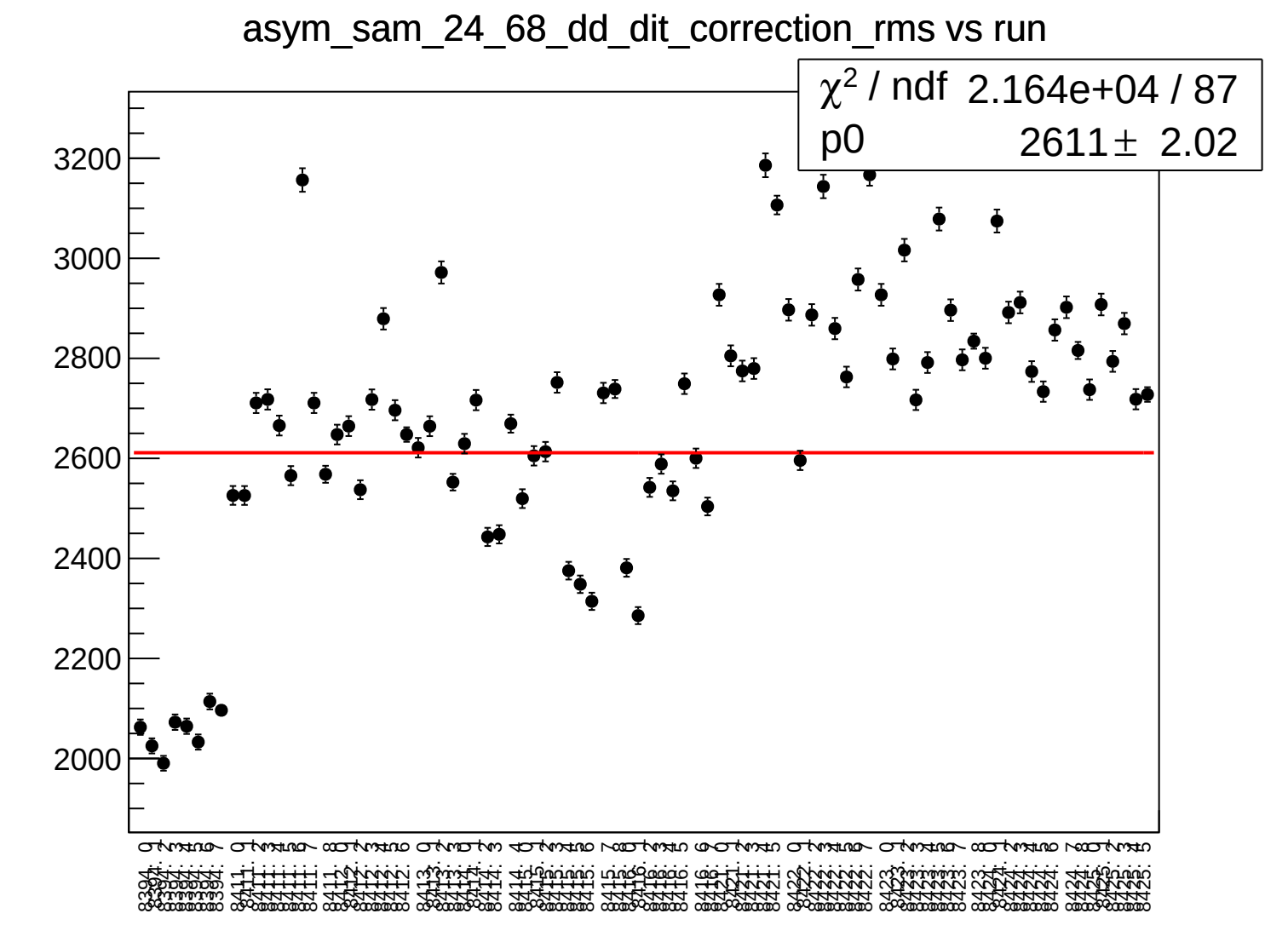

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 77.22 / 87
p0 94.18 ± 116.8
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 88
Mean −194.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

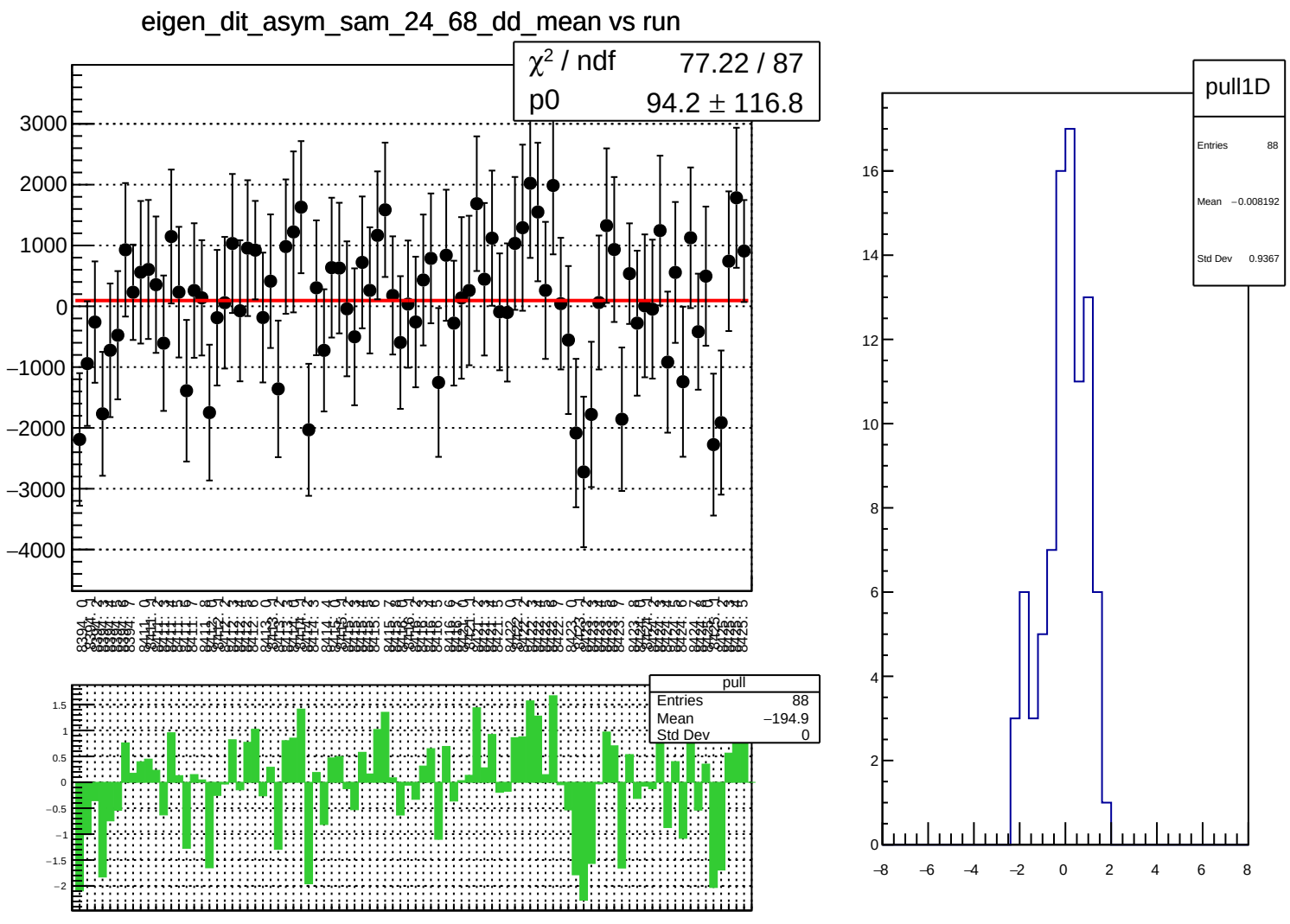

pull1D
Entries 88
Mean −0.008192
Std Dev 0.9367
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

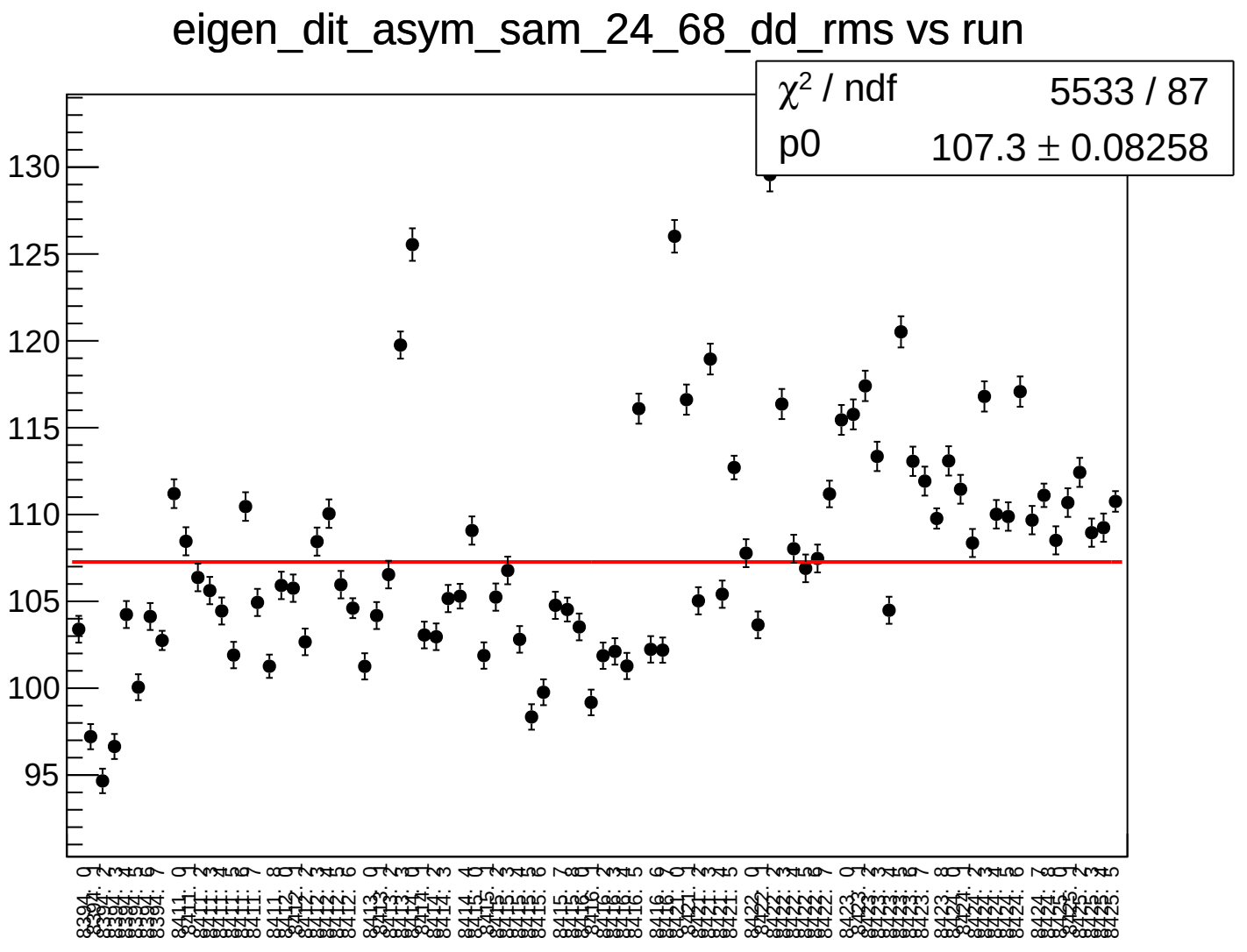

dit_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 5534 / 87
p0 107.3 ± 0.08258
130
125
120
115
110
105
100
95

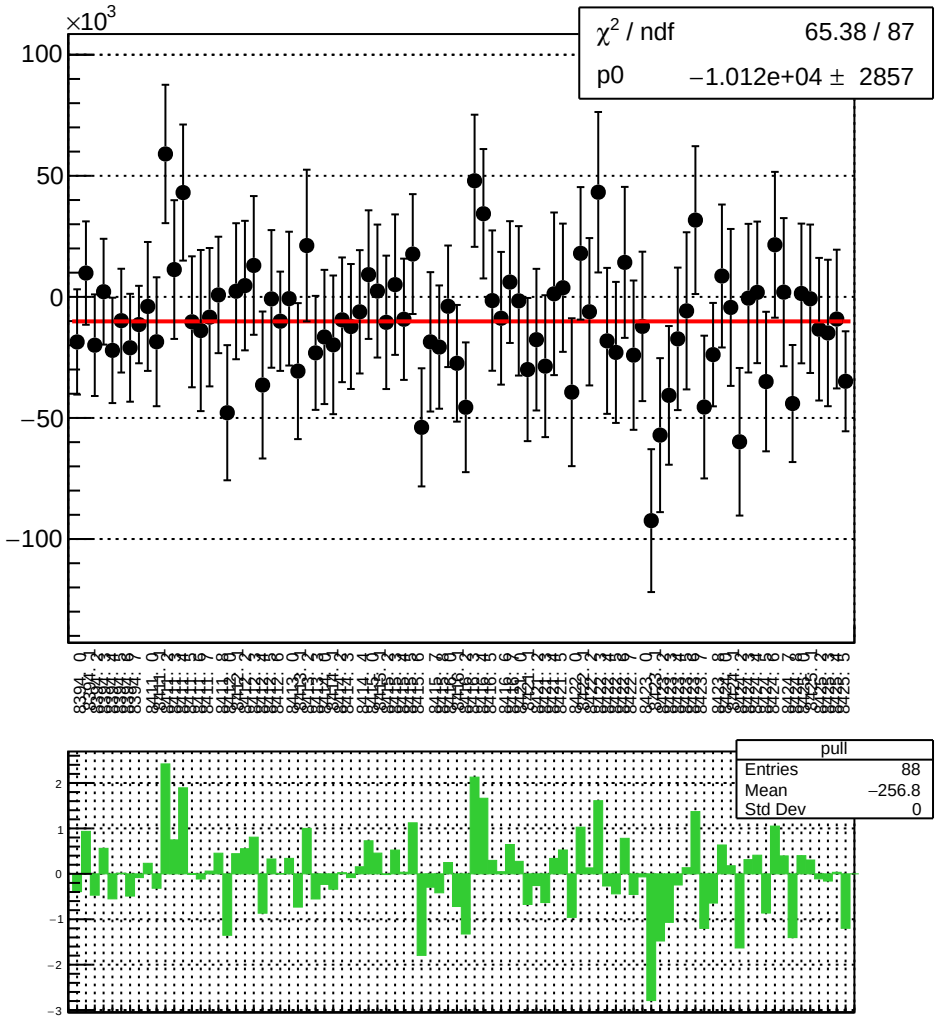

asym_sam_24_68_dd_dit_correction_mean vs run
×10^3
χ² / ndf 65.38 / 87
p0 −1.012e+04 ± 2857
pull
Entries 88
Mean −256.8
Std Dev 0

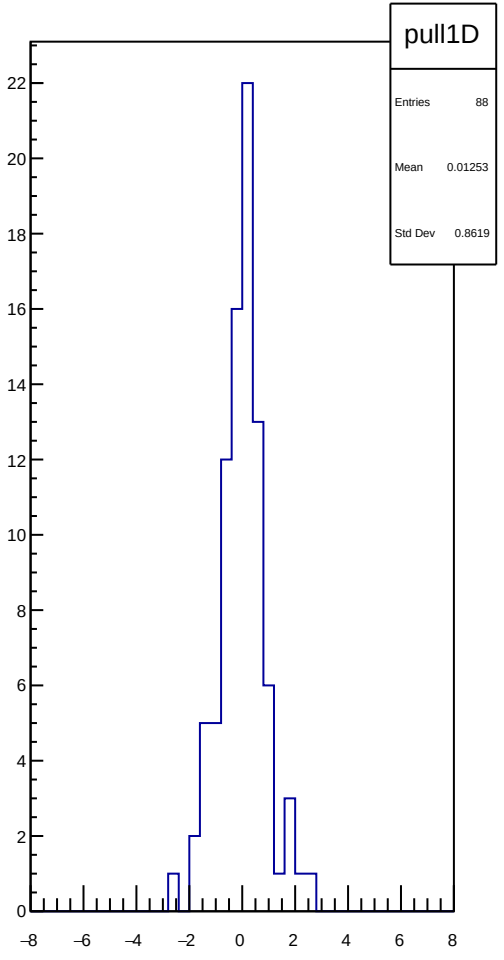

pull1D
Entries 88
Mean 0.01253
Std Dev 0.8619

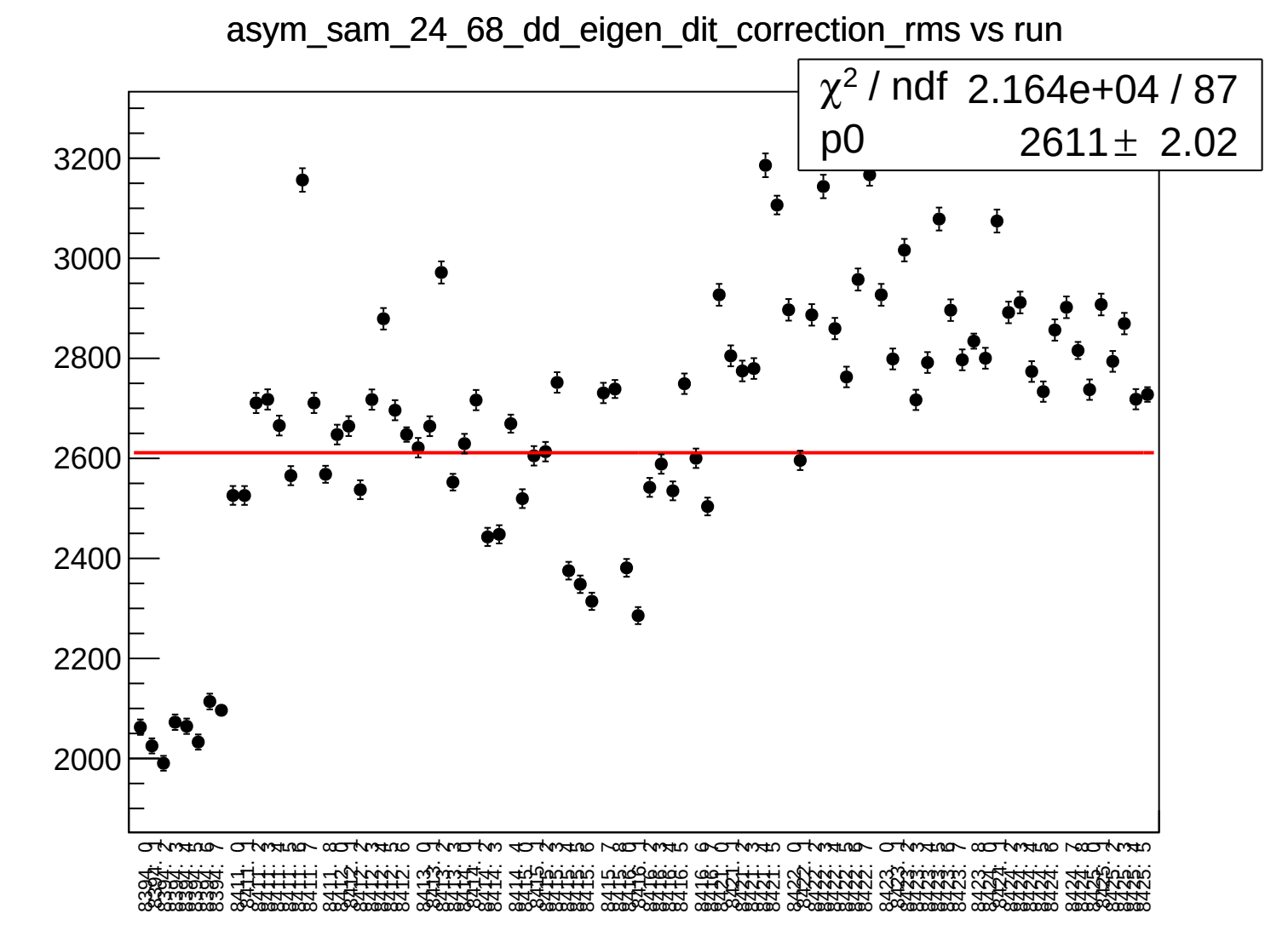

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 2.164e+04 / 87
p0 2611 ± 2.02
3200
3000
2800
2600
2400
2200
2000

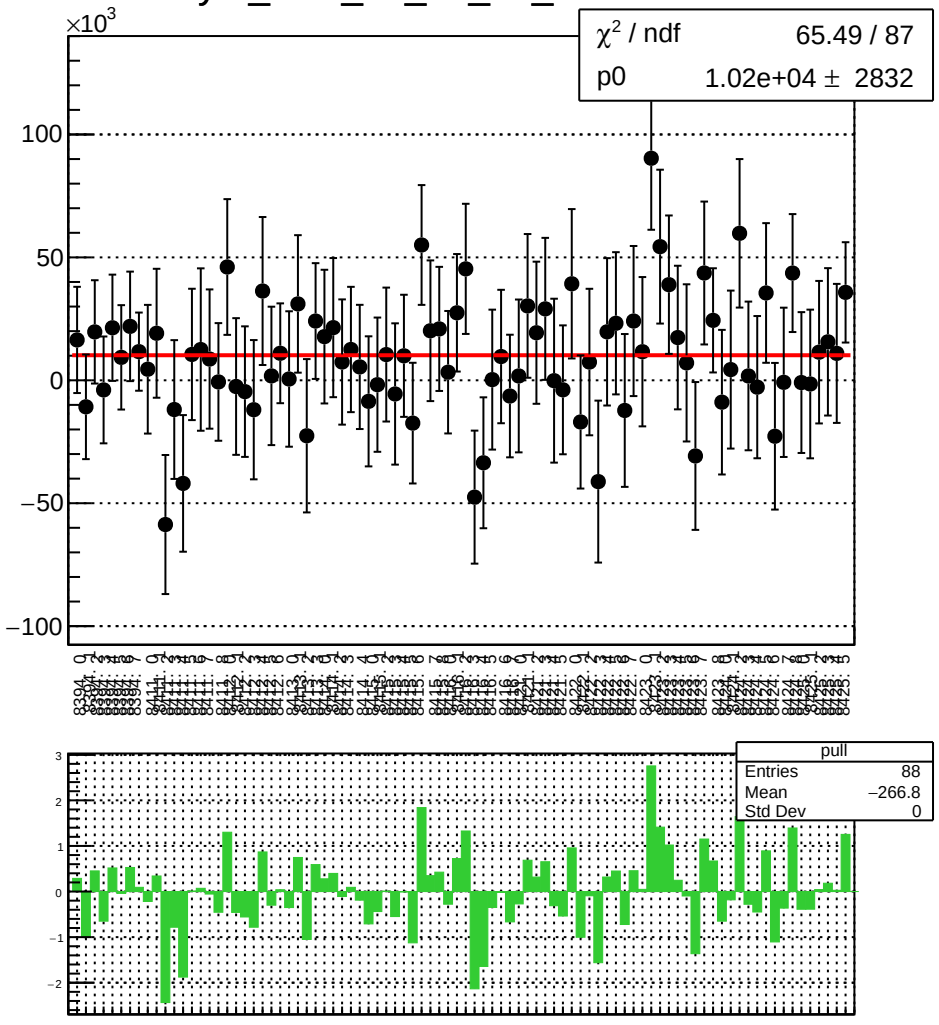

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 77.22 / 87
p0 94.2 ± 116.8
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 88
Mean −194.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.008192
Std Dev 0.9367
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

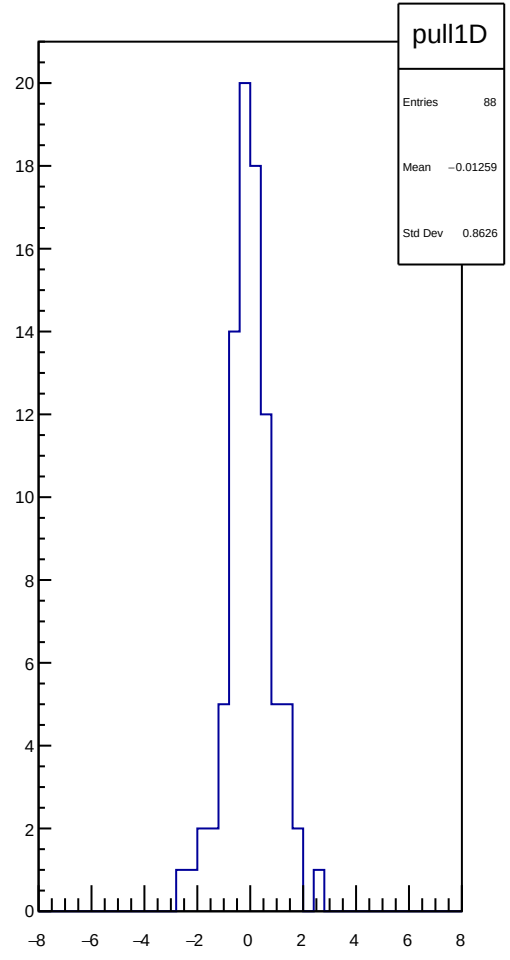

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 5533 / 87
p0 107.3 ± 0.08258
130
125
120
115
110
105
100
95

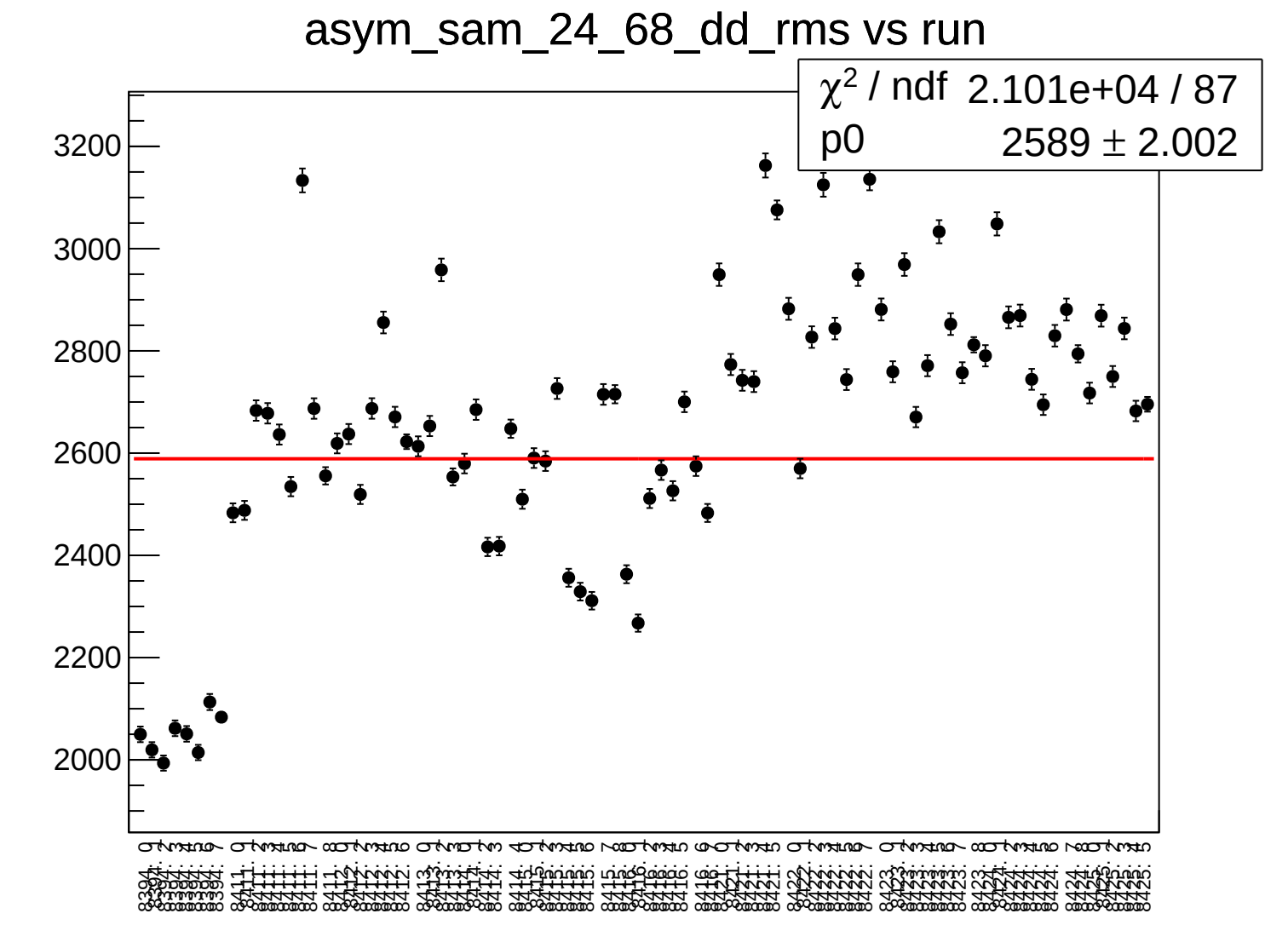

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 65.38 / 87
p0 −1.012e+04 ± 2857
pull
Entries 88
Mean −256.8
Std Dev 0

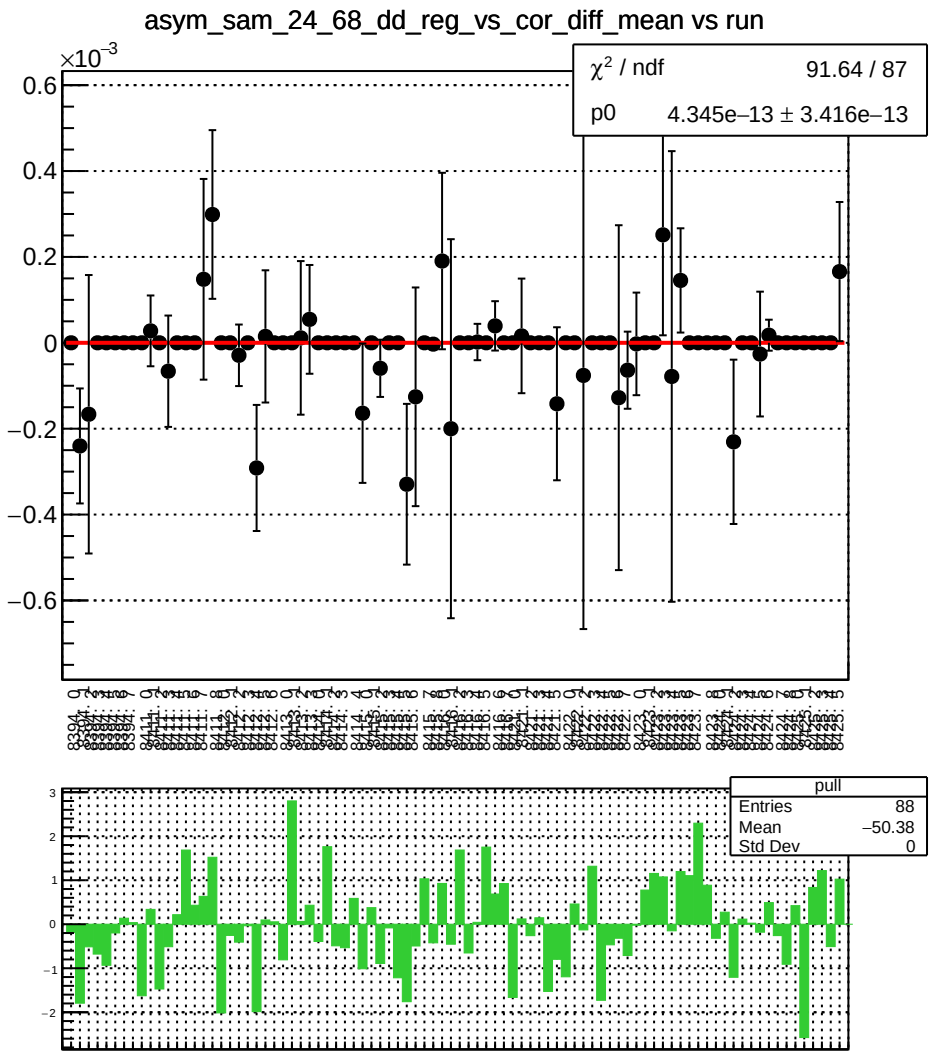

pull1D
Entries 88
Mean 0.01253
Std Dev 0.8619

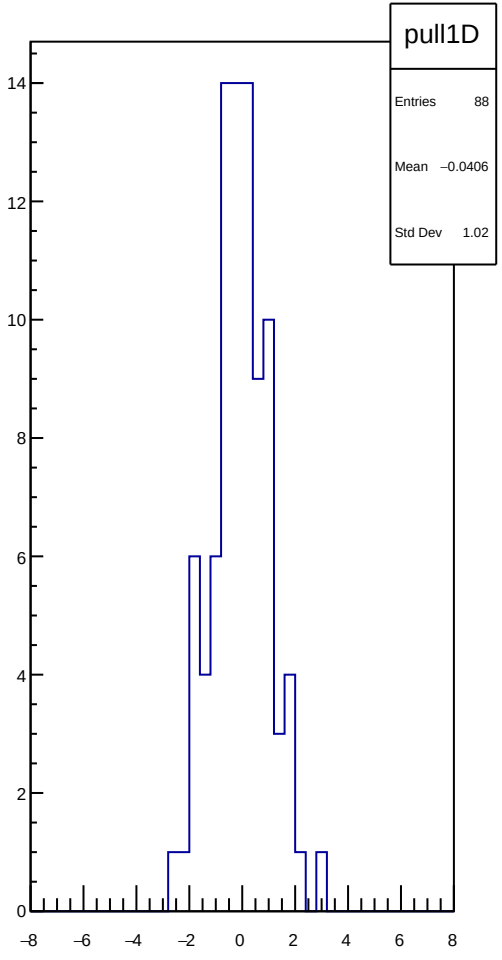

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.164e+04 / 87
p0 2611 ± 2.02
3200
3000
2800
2600
2400
2200
2000

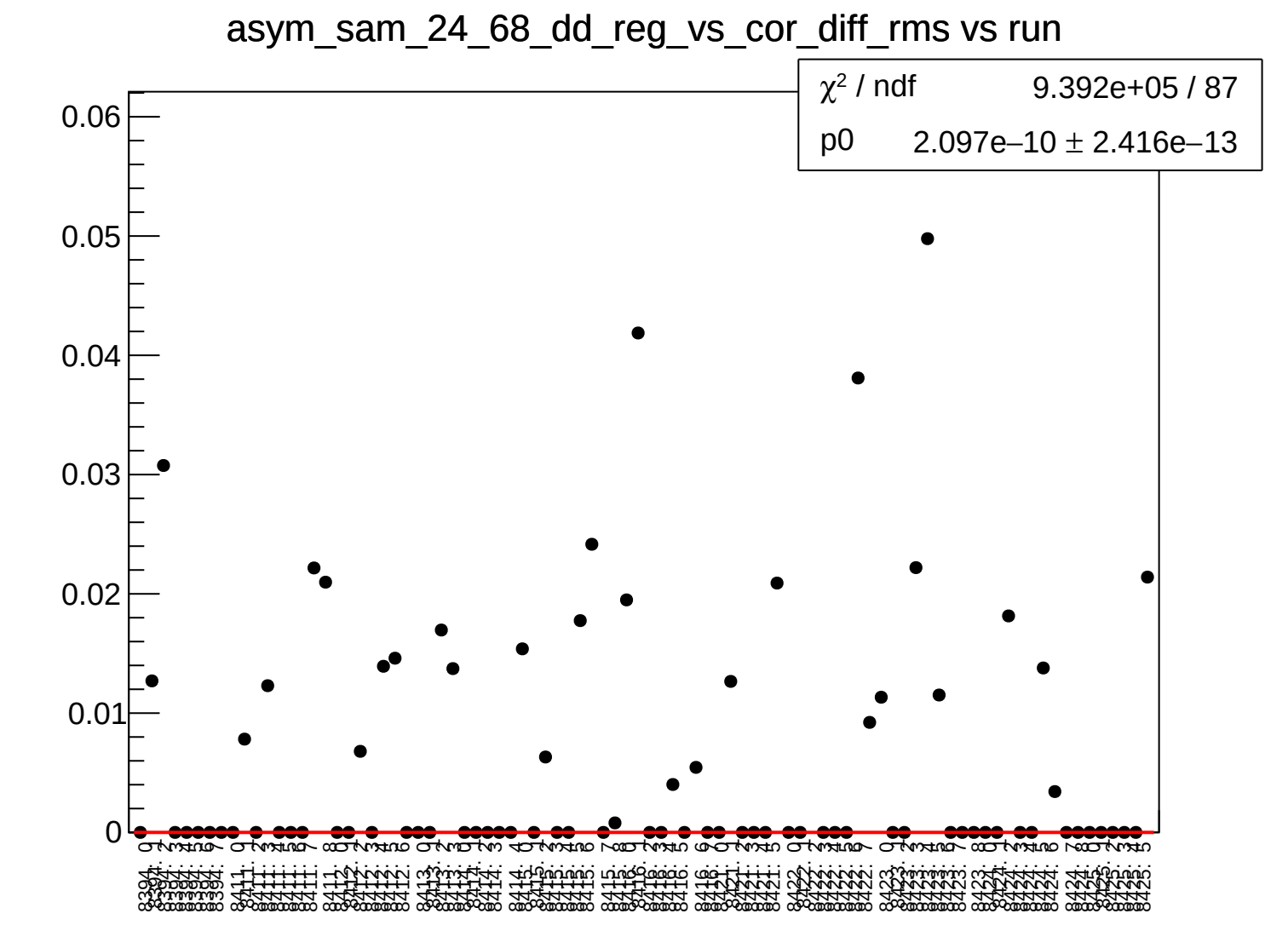

asym_sam_24_68_dd_mean vs run
×10^3
χ² / ndf 65.49 / 87
p0 1.02e+04 ± 2832
100
50
0
−50
−100
pull
Entries 88
Mean −266.8
Std Dev 0
3
2
1
0
−1
−2

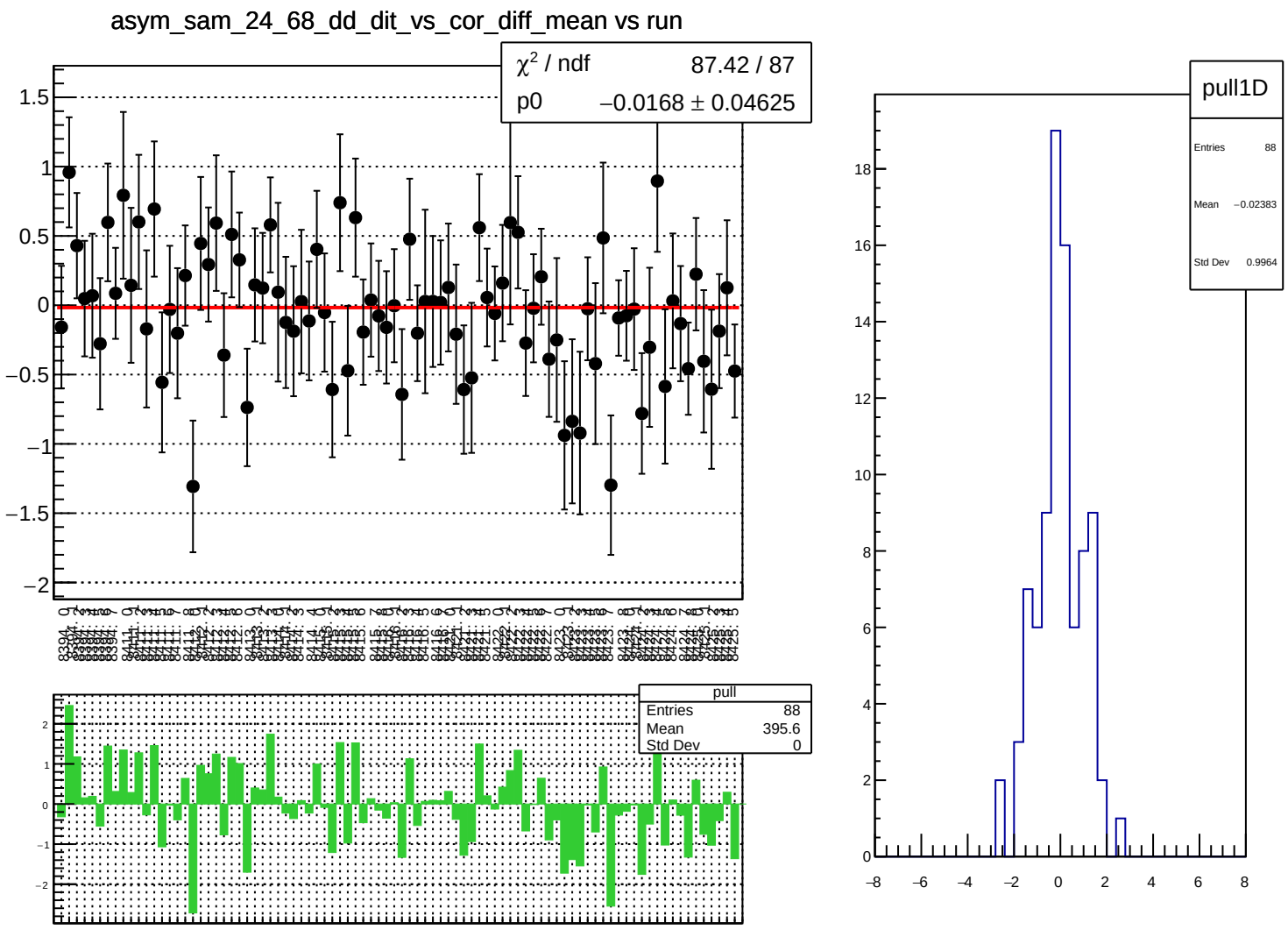

pull1D
Entries 88
Mean −0.01259
Std Dev 0.8626
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

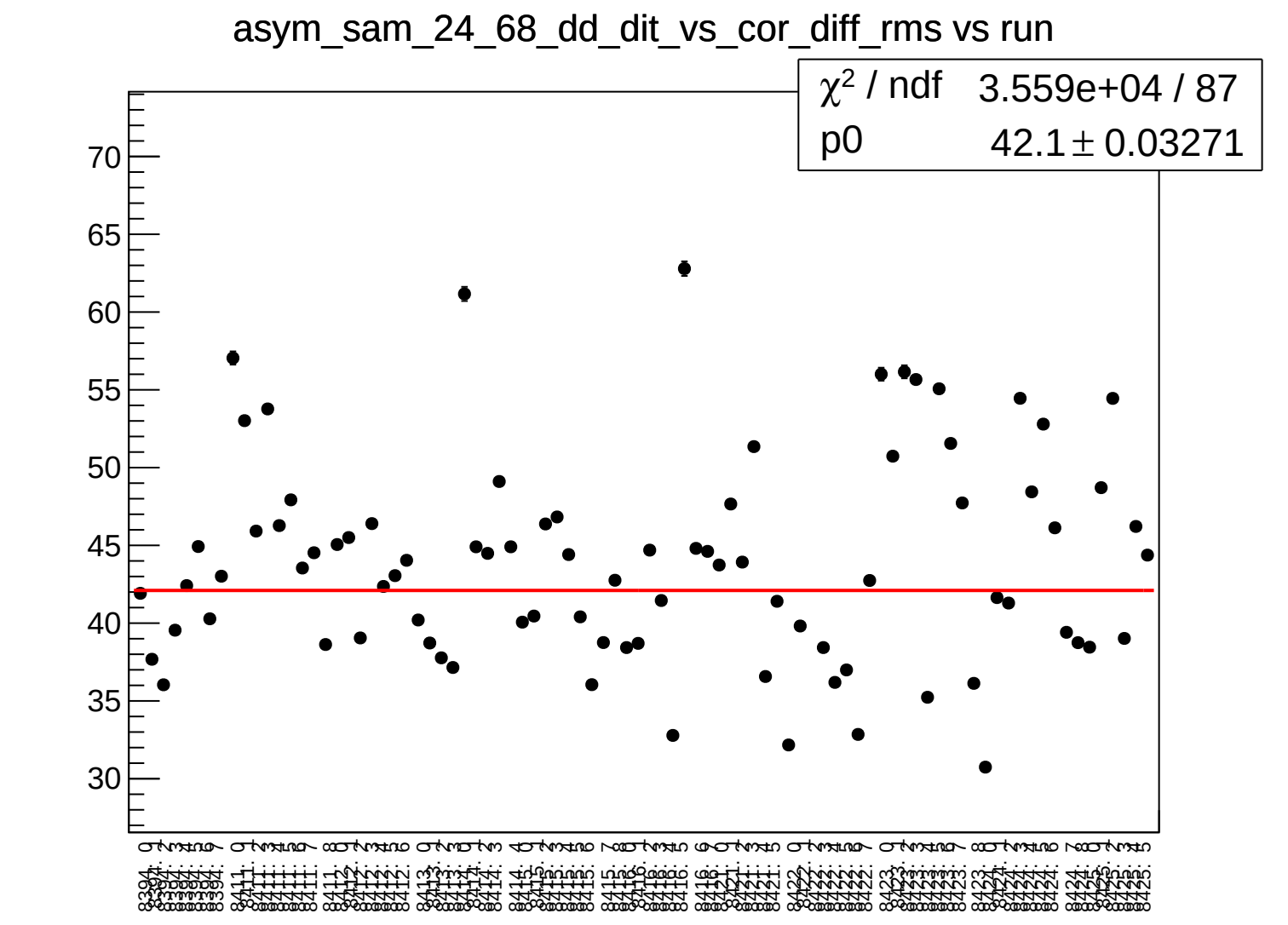

asym_sam_24_68_dd_rms vs run
χ^2 / ndf 2.101e+04 / 87
p0 2589 ± 2.002
3200
3000
2800
2600
2400
2200
2000

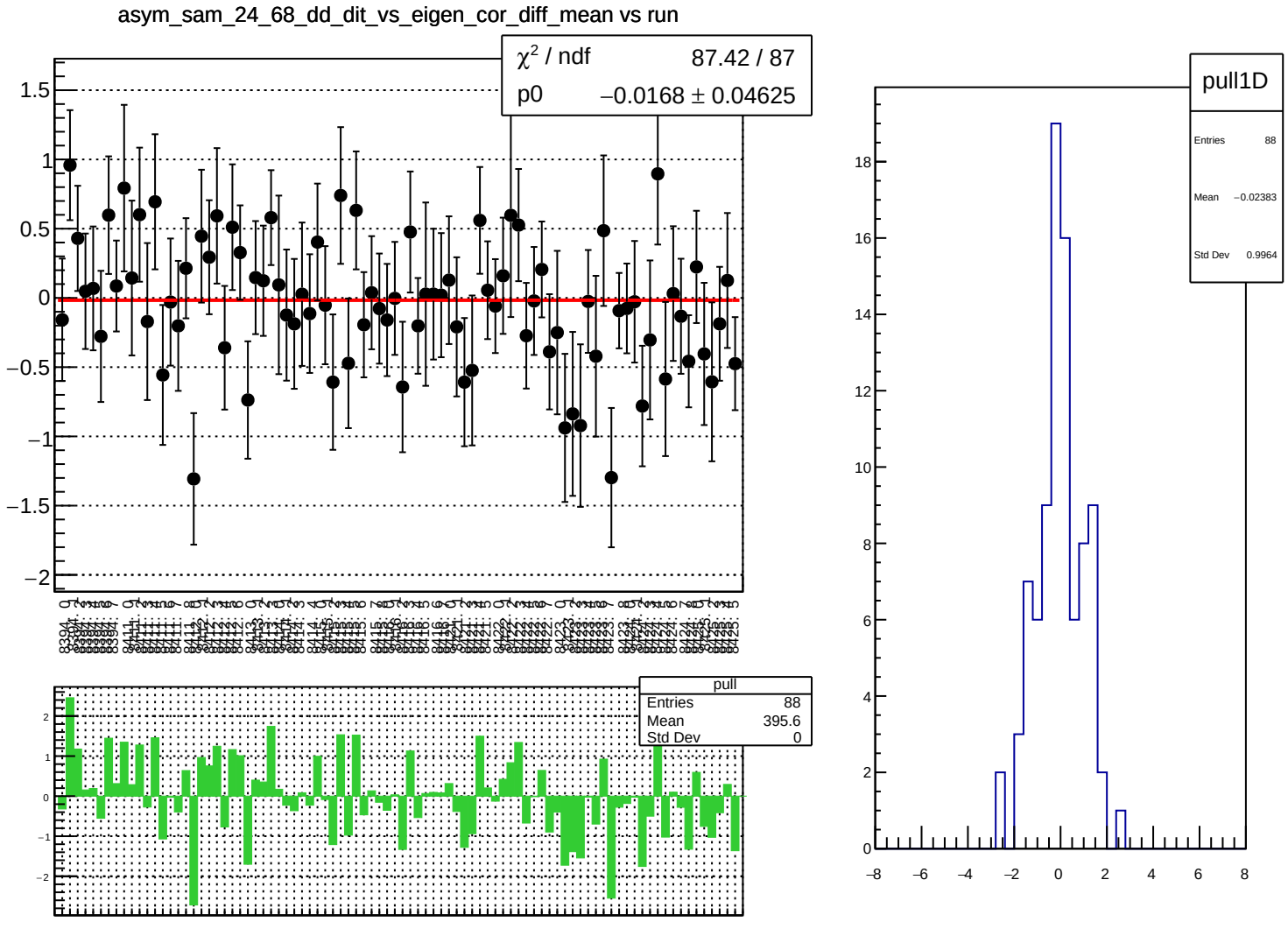

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 91.64 / 87
p0 4.345e−13 ± 3.416e−13
pull
Entries 88
Mean −50.38
Std Dev 0

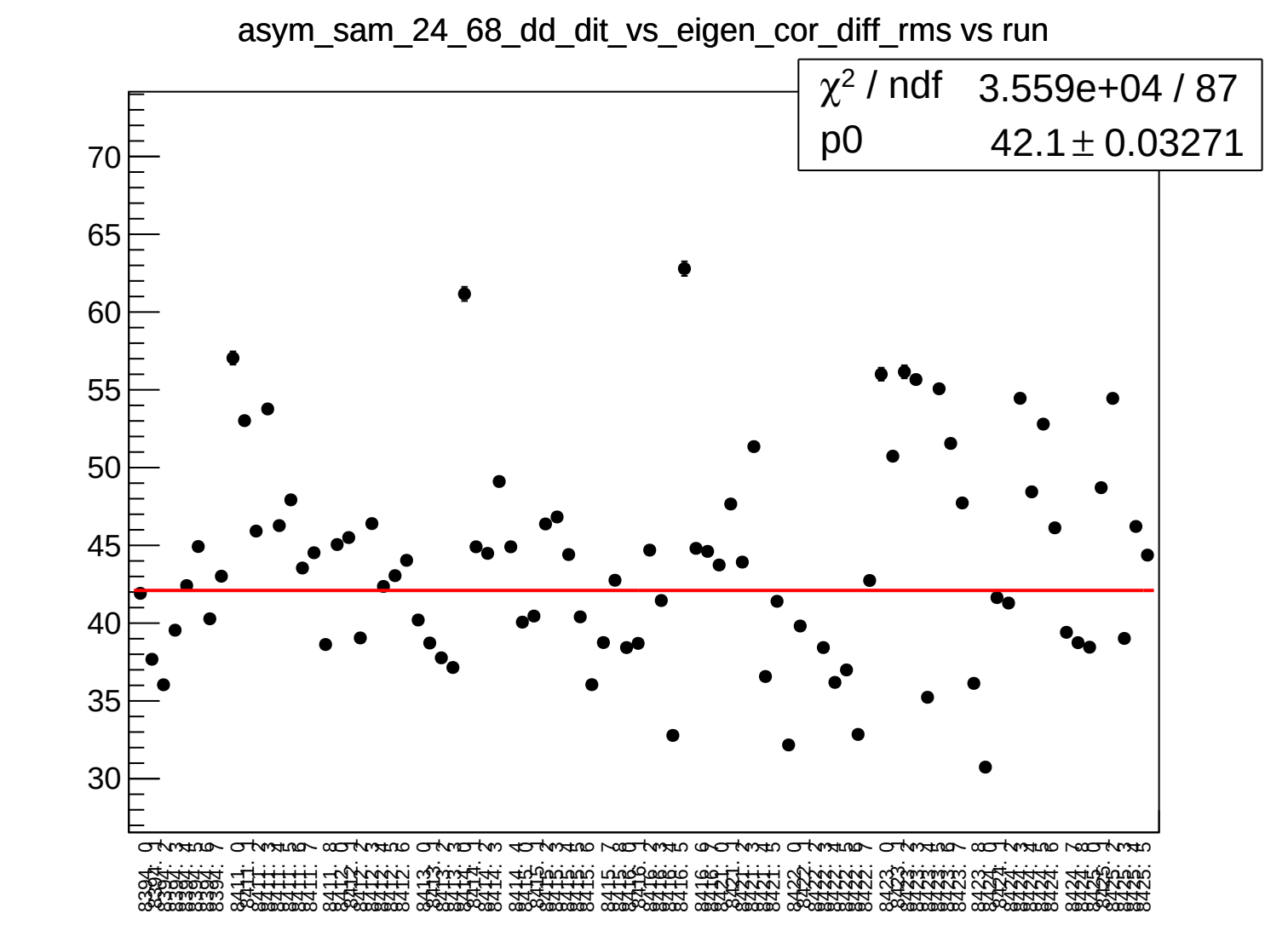

pull1D
Entries 88
Mean −0.0406
Std Dev 1.02

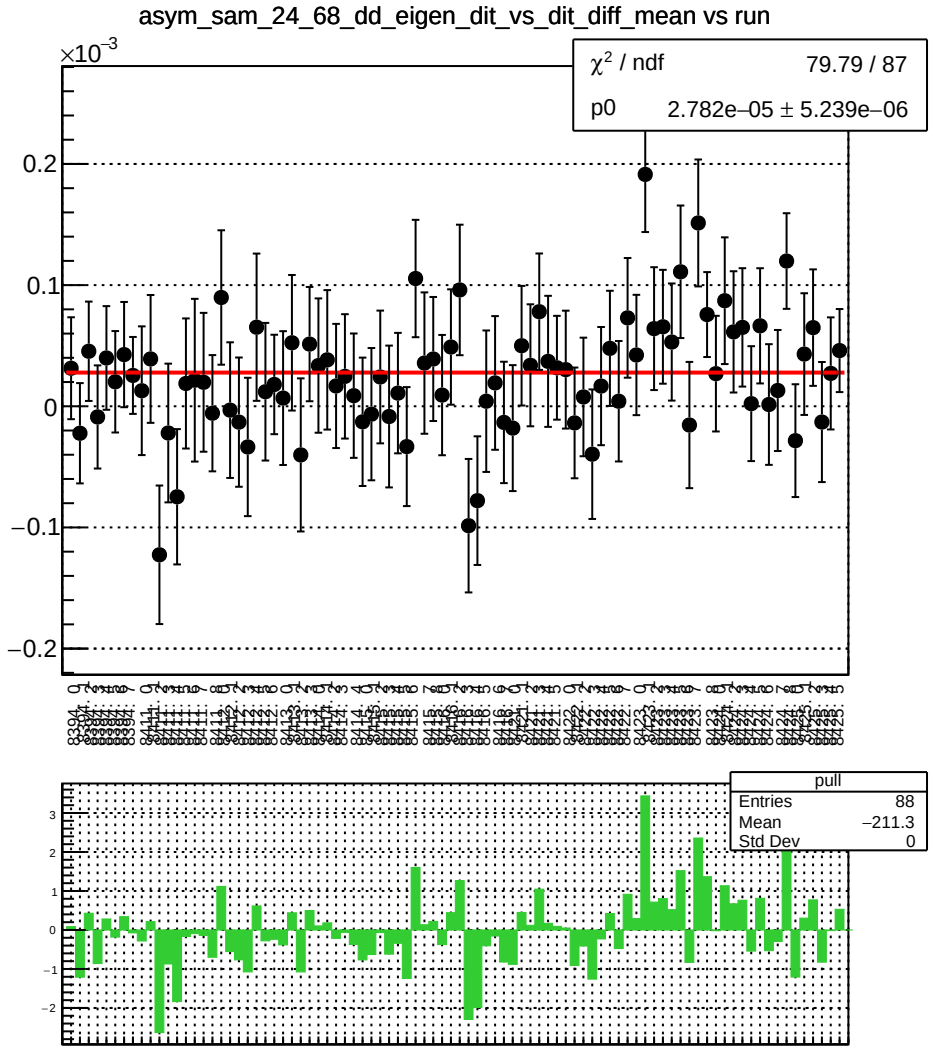

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.392e+05 / 87
p0 2.097e−10 ± 2.416e−13
0.06
0.05
0.04
0.03
0.02
0.01
0

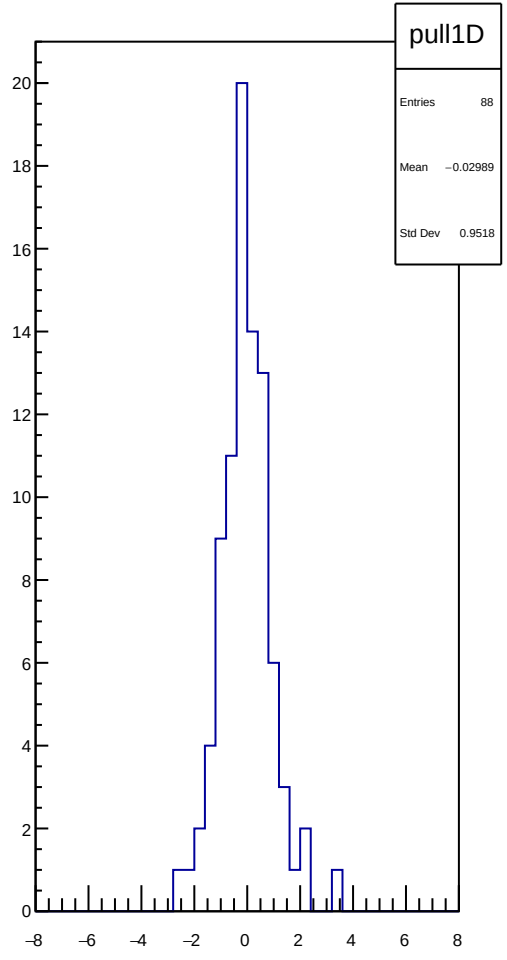

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.42 / 87
p0 −0.0168 ± 0.04625
pull
Entries 88
Mean 395.6
Std Dev 0
pull1D
Entries 88
Mean −0.02383
Std Dev 0.9964

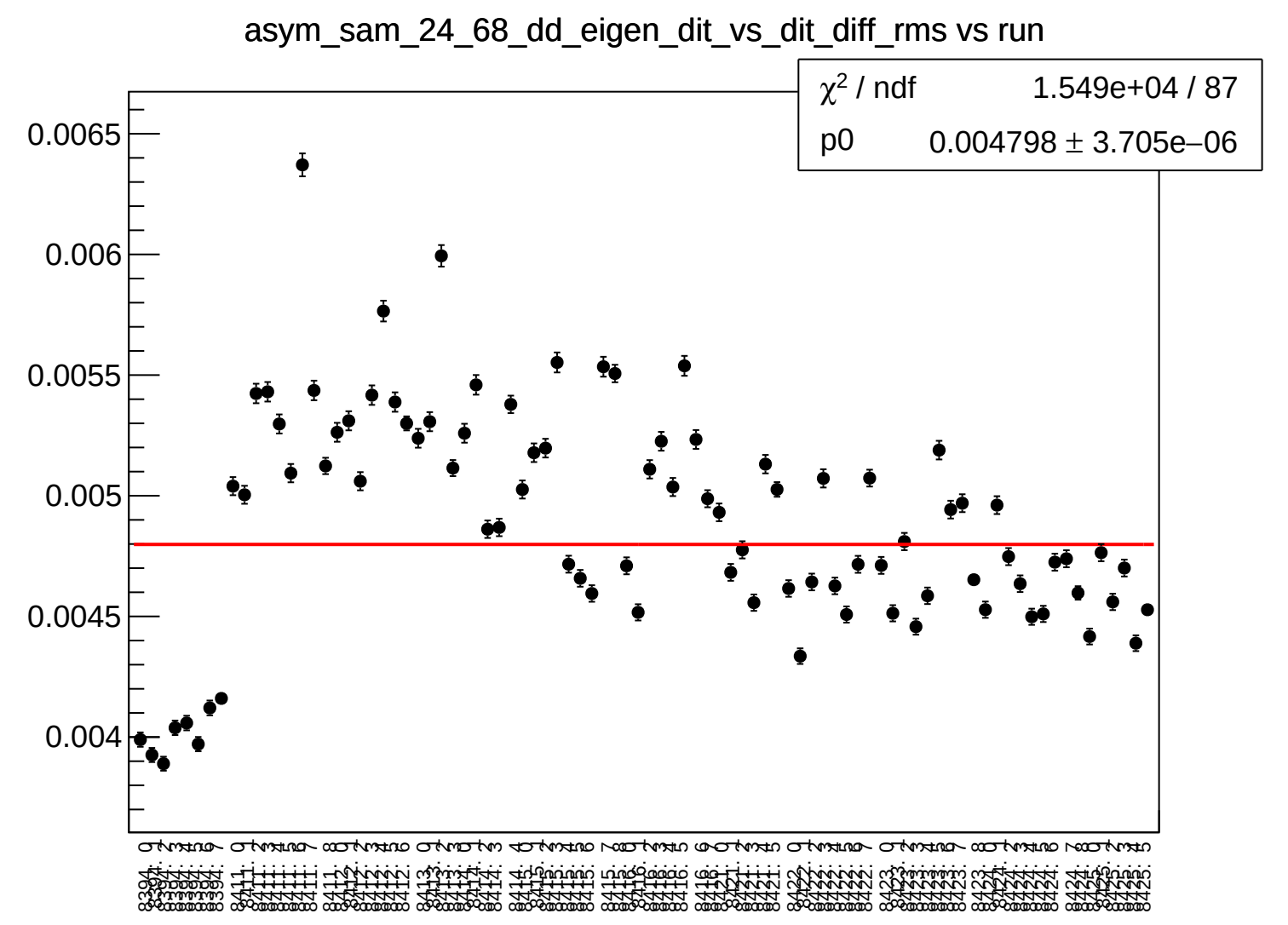

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.559e+04 / 87
p0 42.1 ± 0.03271
70
65
60
55
50
45
40
35
30

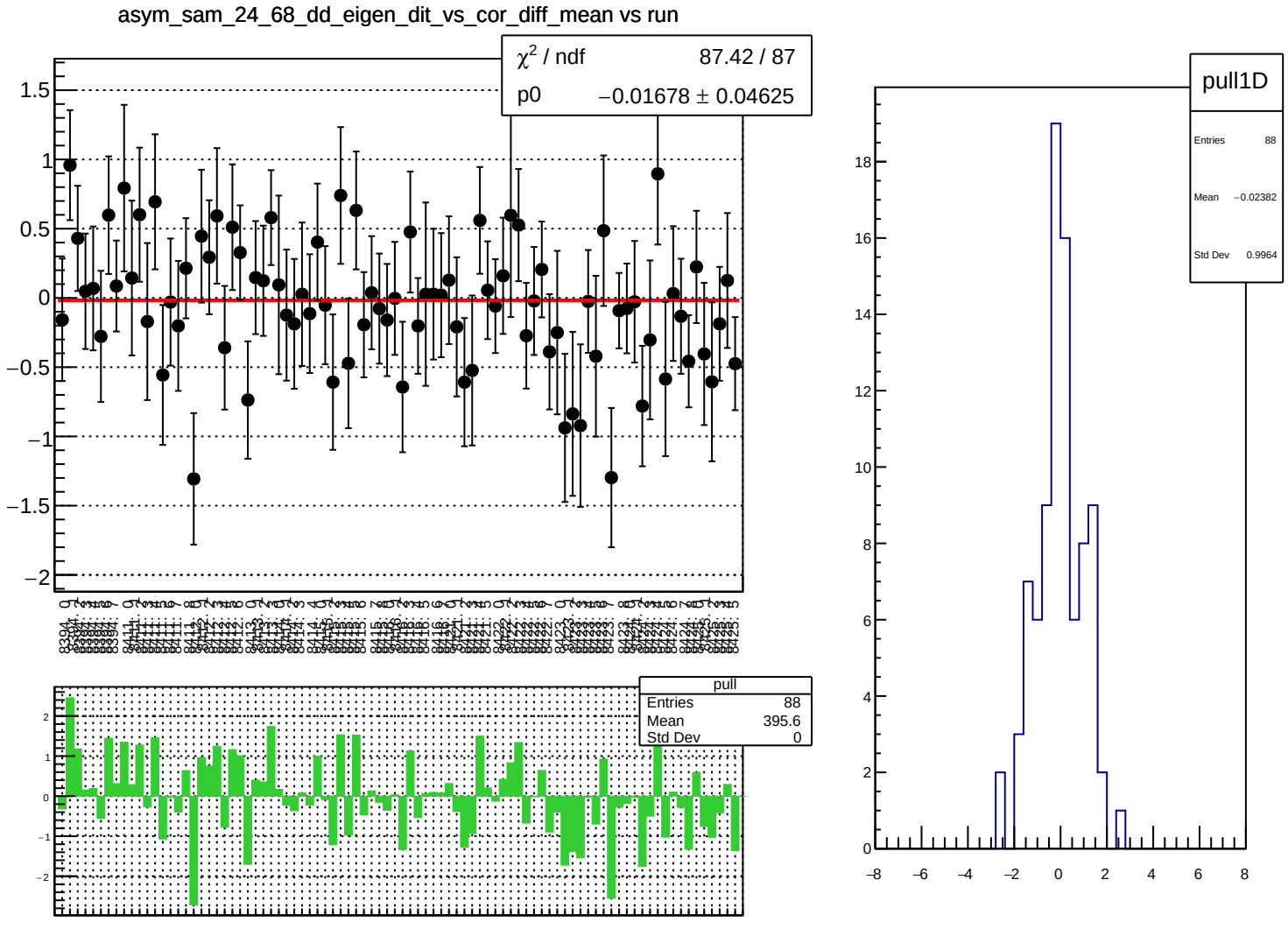

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.42 / 87
p0 −0.0168 ± 0.04625
pull
Entries 88
Mean 395.6
Std Dev 0
pull1D
Entries 88
Mean −0.02383
Std Dev 0.9964

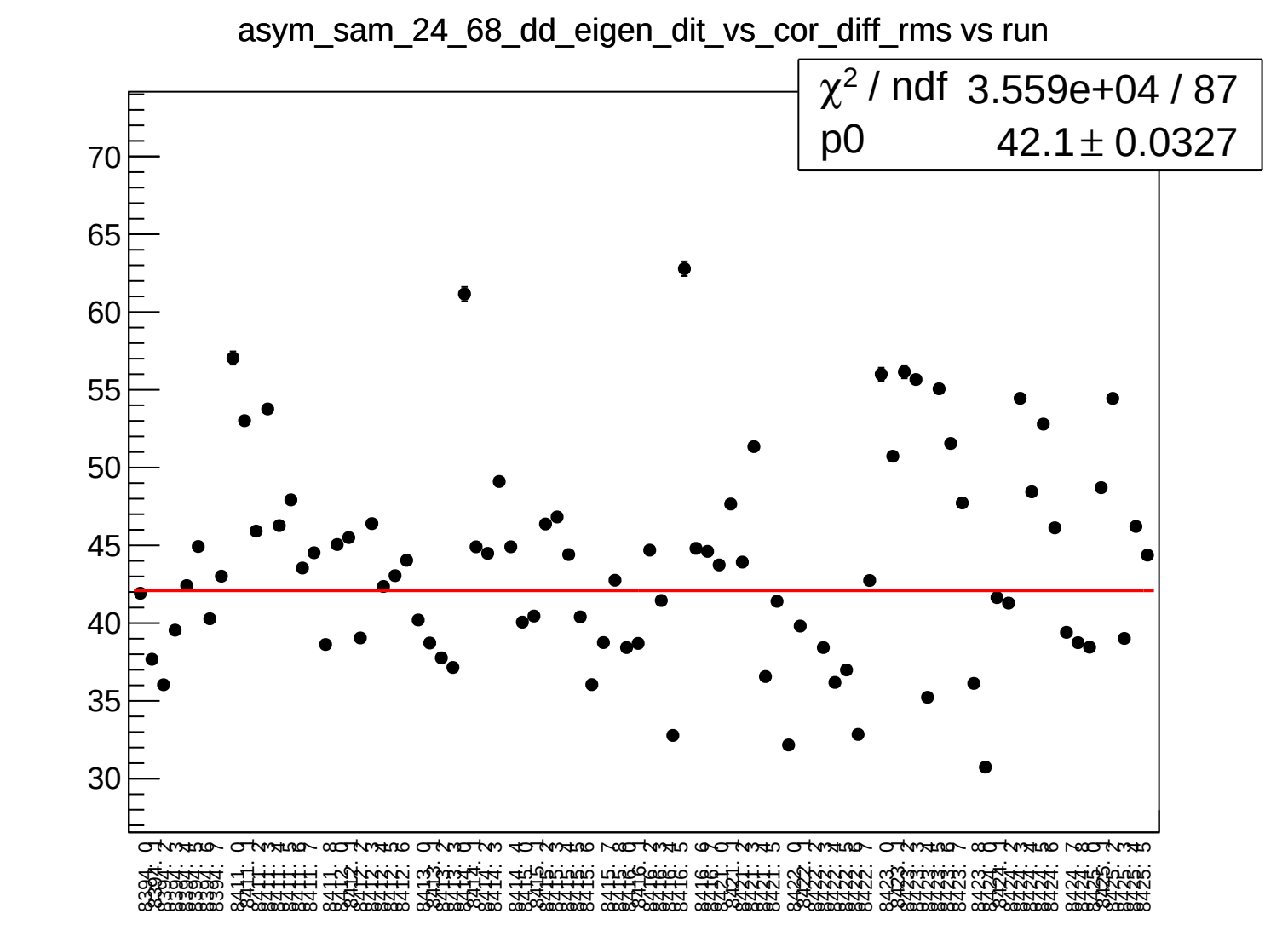

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.559e+04 / 87
p0 42.1 ± 0.03271
70
65
60
55
50
45
40
35
30

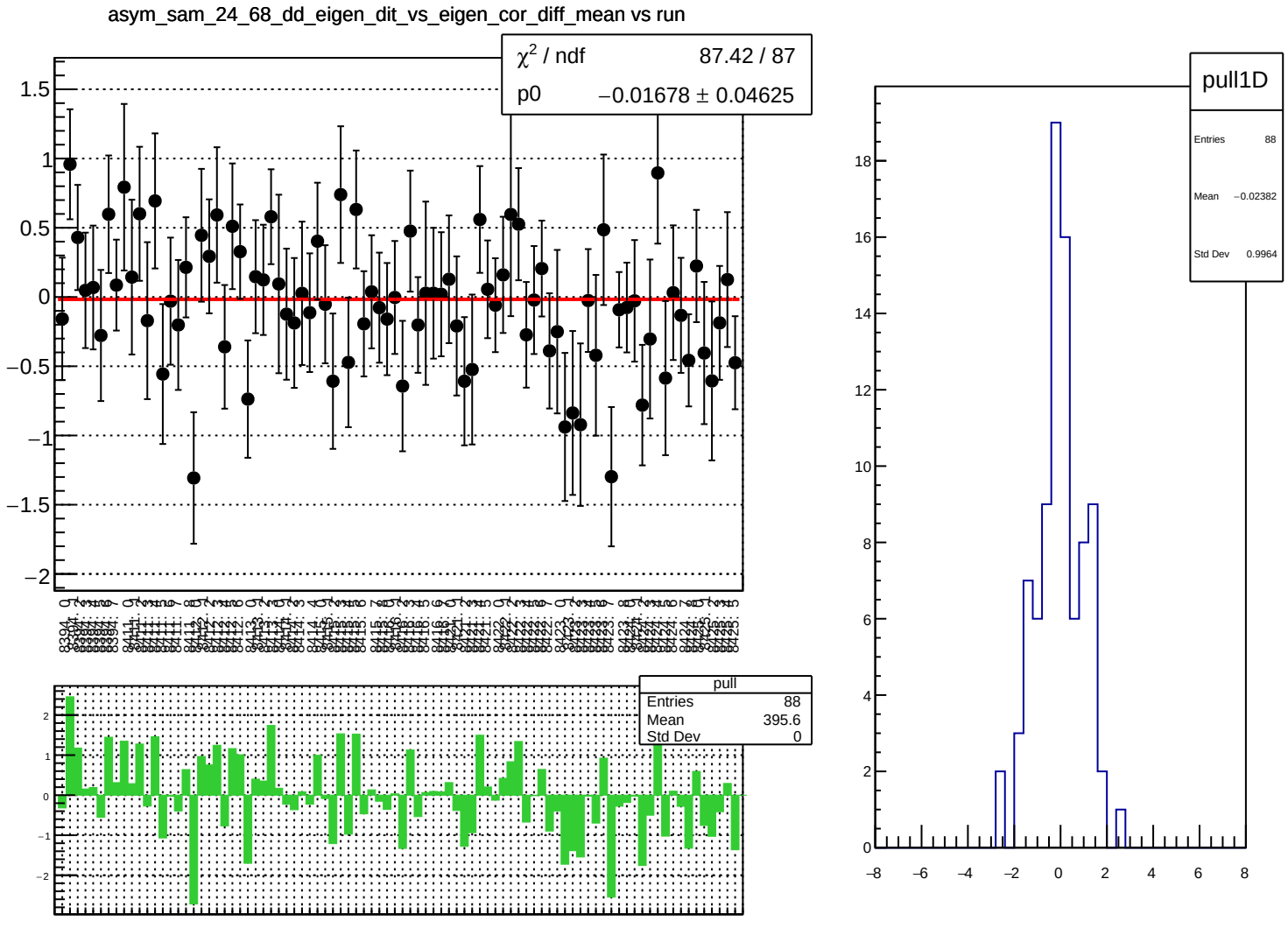

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 79.79 / 87
p0 2.782e−05 ± 5.239e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 88
Mean −211.3
Std Dev 0
3
2
1
0
−1
−2

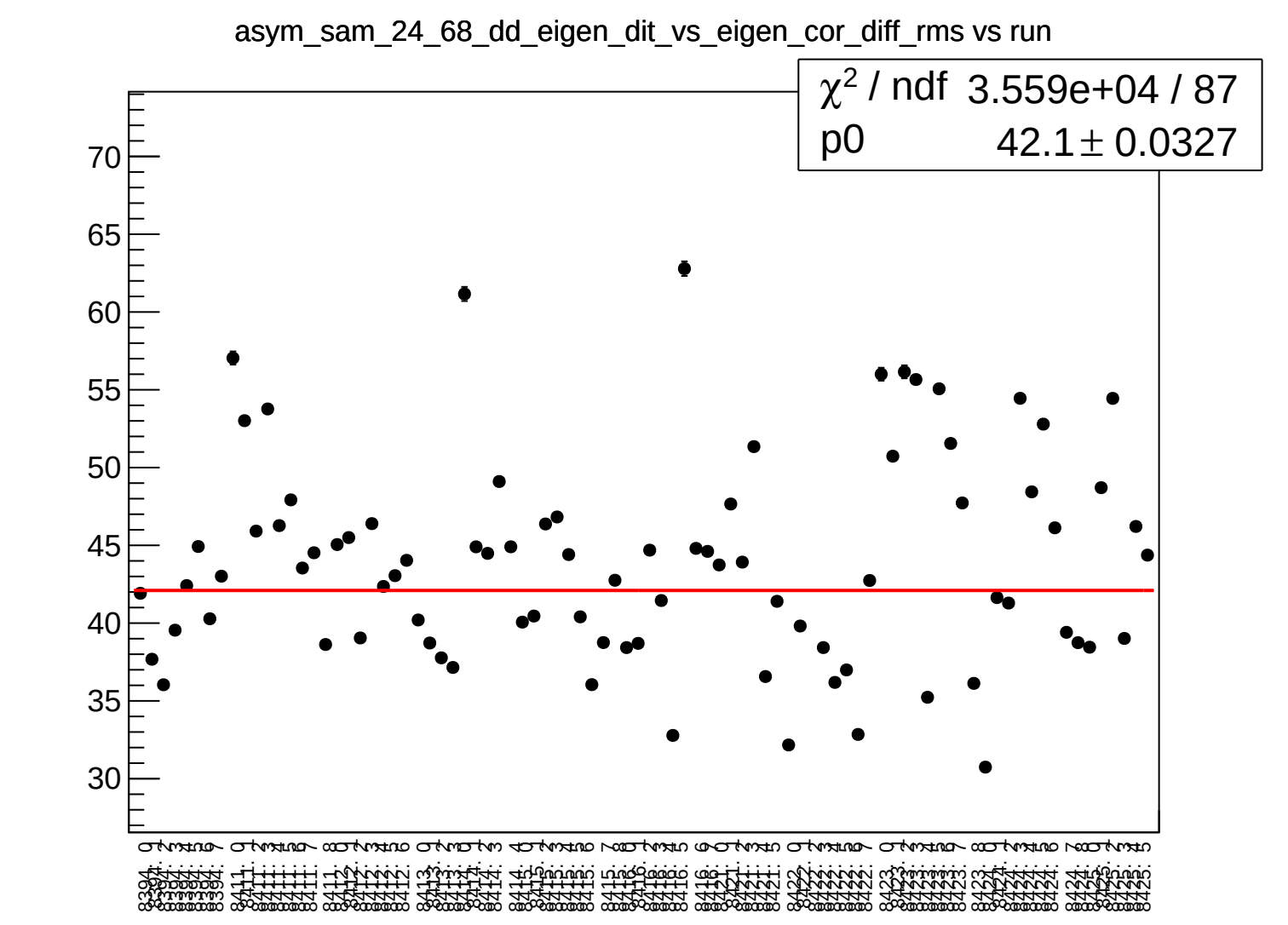

pull1D
Entries 88
Mean −0.02989
Std Dev 0.9518
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

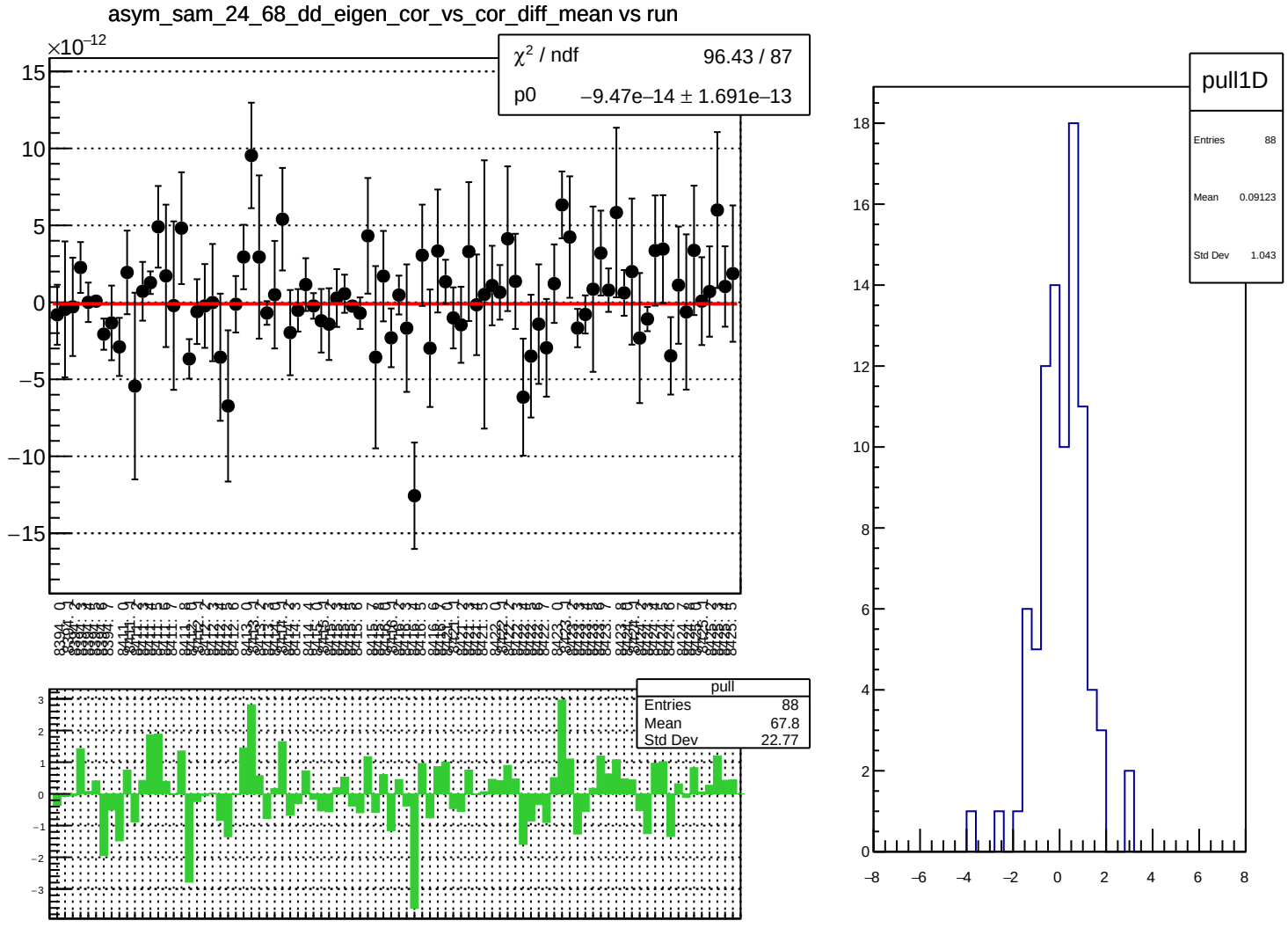

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.549e+04 / 87
p0 0.004798 ± 3.705e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004

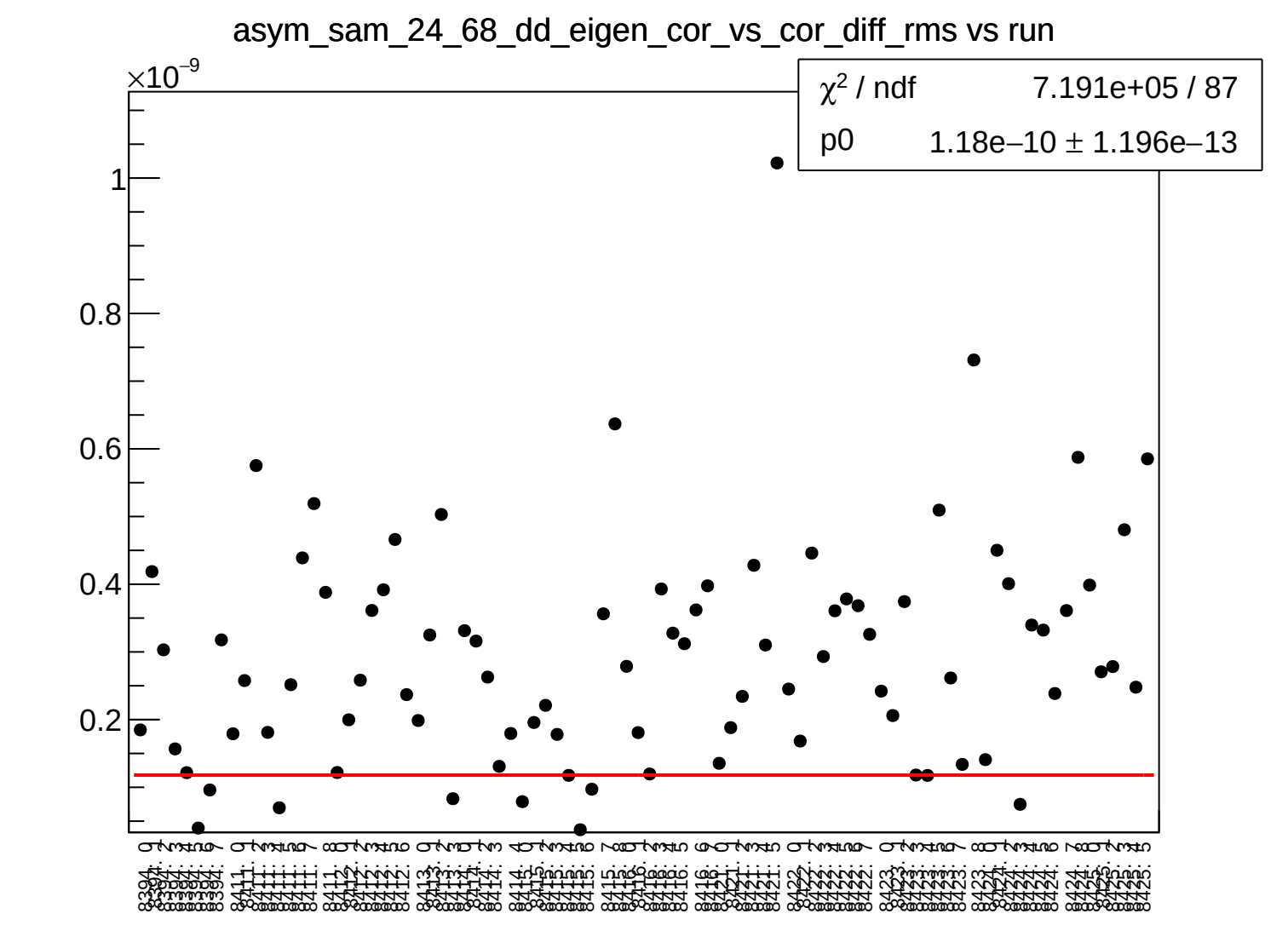

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.42 / 87
p0 −0.01678 ± 0.04625
pull
Entries 88
Mean 395.6
Std Dev 0
pull1D
Entries 88
Mean −0.02382
Std Dev 0.9964

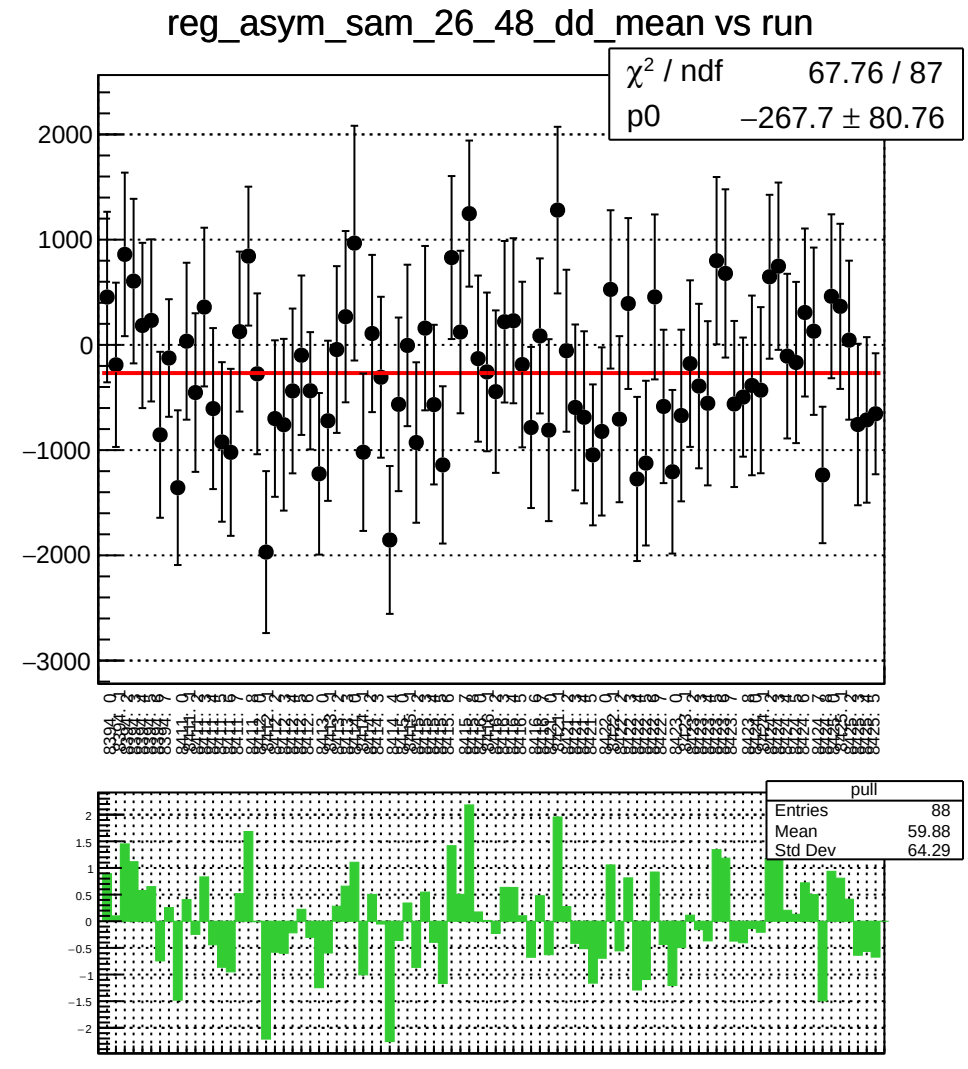

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.559e+04 / 87
p0 42.1 ± 0.0327
70
65
60
55
50
45
40
35
30

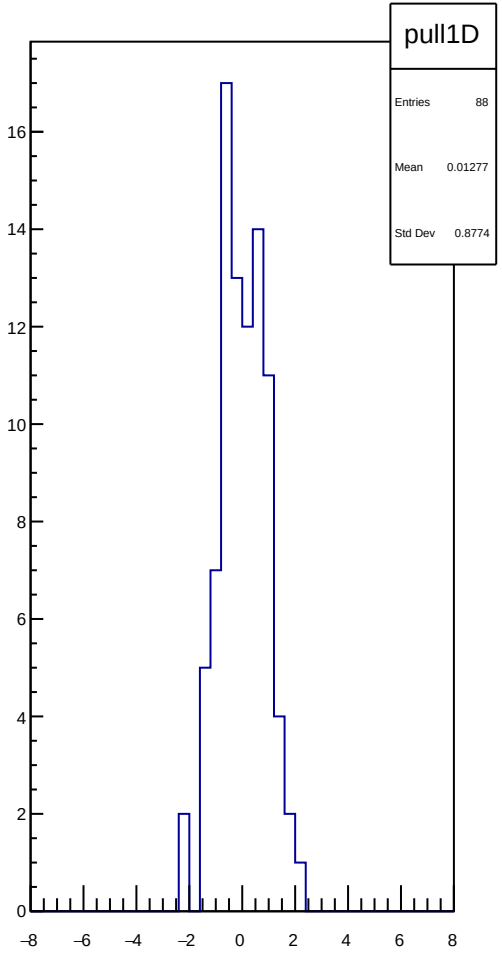

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.42 / 87
p0 −0.01678 ± 0.04625
pull
Entries 88
Mean 395.6
Std Dev 0
pull1D
Entries 88
Mean −0.02382
Std Dev 0.9964

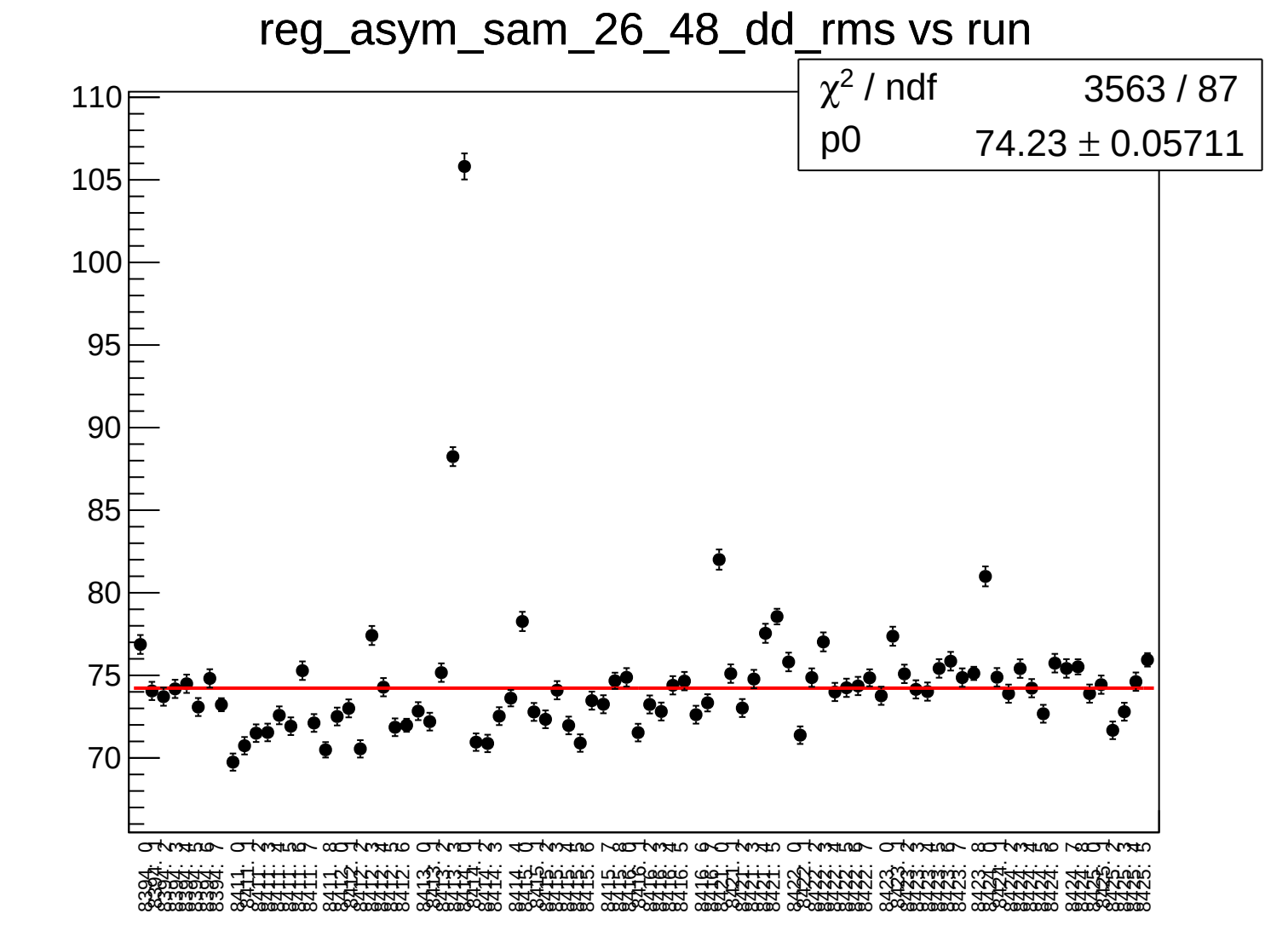

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.559e+04 / 87
p0 42.1 ± 0.0327
70
65
60
55
50
45
40
35
30

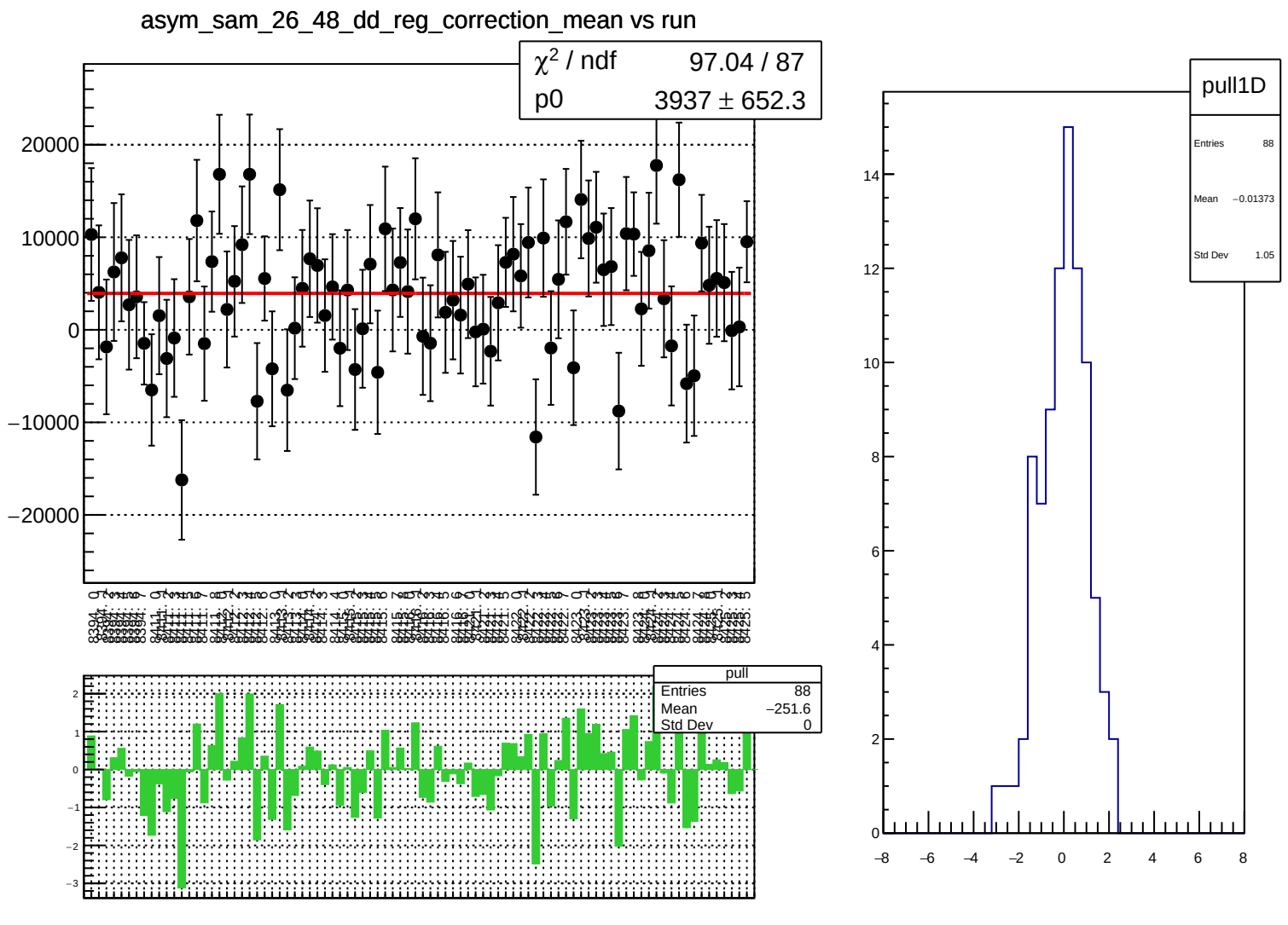

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.43 / 87
p0 −9.47e−14 ± 1.691e−13
pull
Entries 88
Mean 67.8
Std Dev 22.77
pull1D
Entries 88
Mean 0.09123
Std Dev 1.043

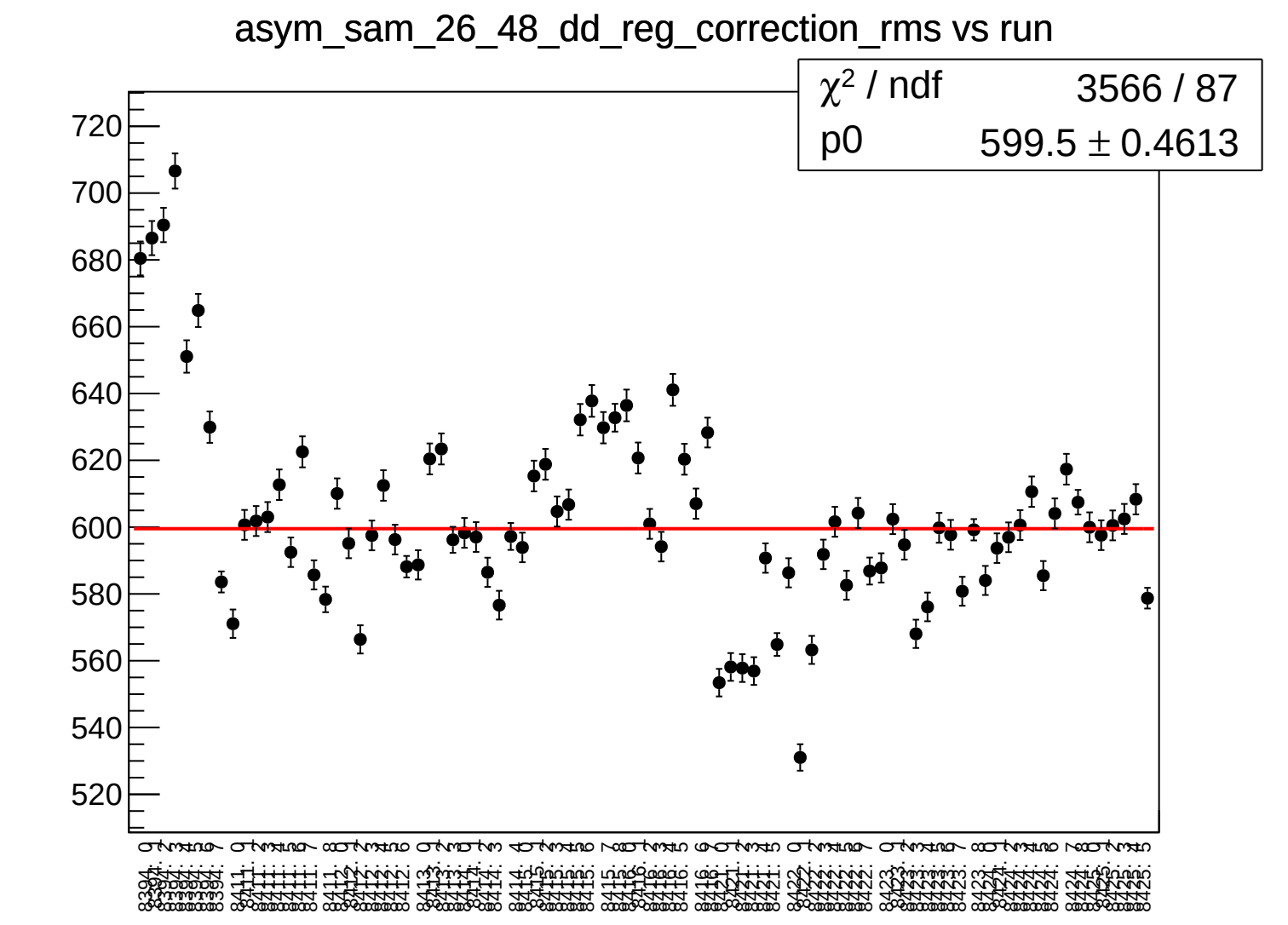

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.191e+05 / 87
p0 1.18e−10 ± 1.196e−13
1
0.8
0.6
0.4
0.2

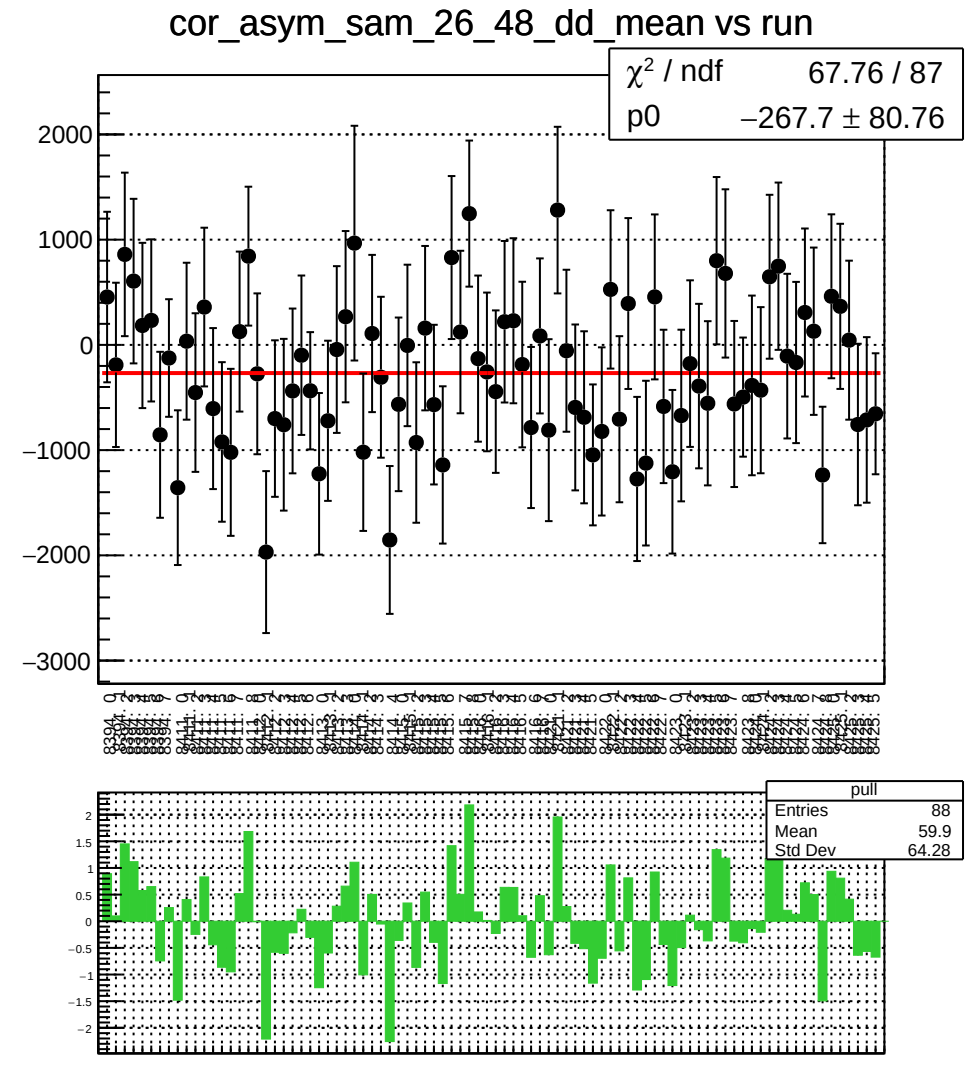

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 67.76 / 87
p0 −267.7 ± 80.76
pull
Entries 88
Mean 59.88
Std Dev 64.29

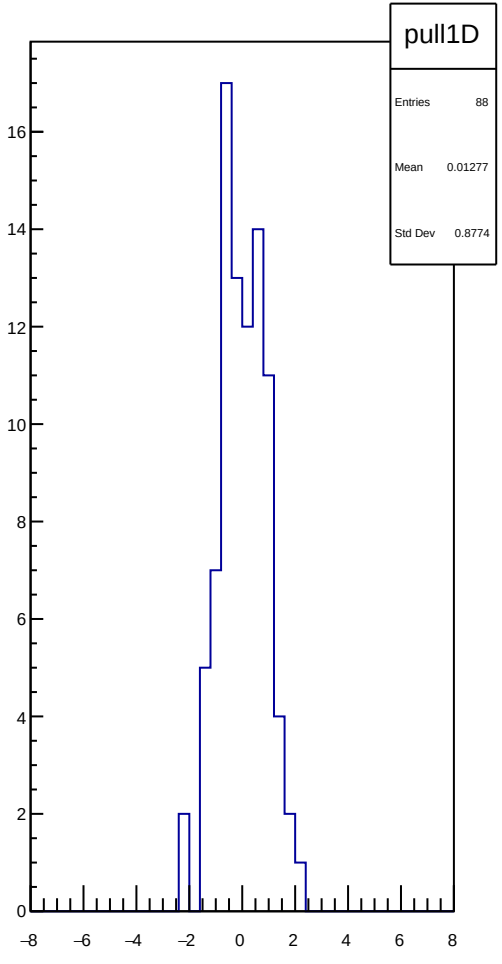

pull1D
Entries 88
Mean 0.01277
Std Dev 0.8774

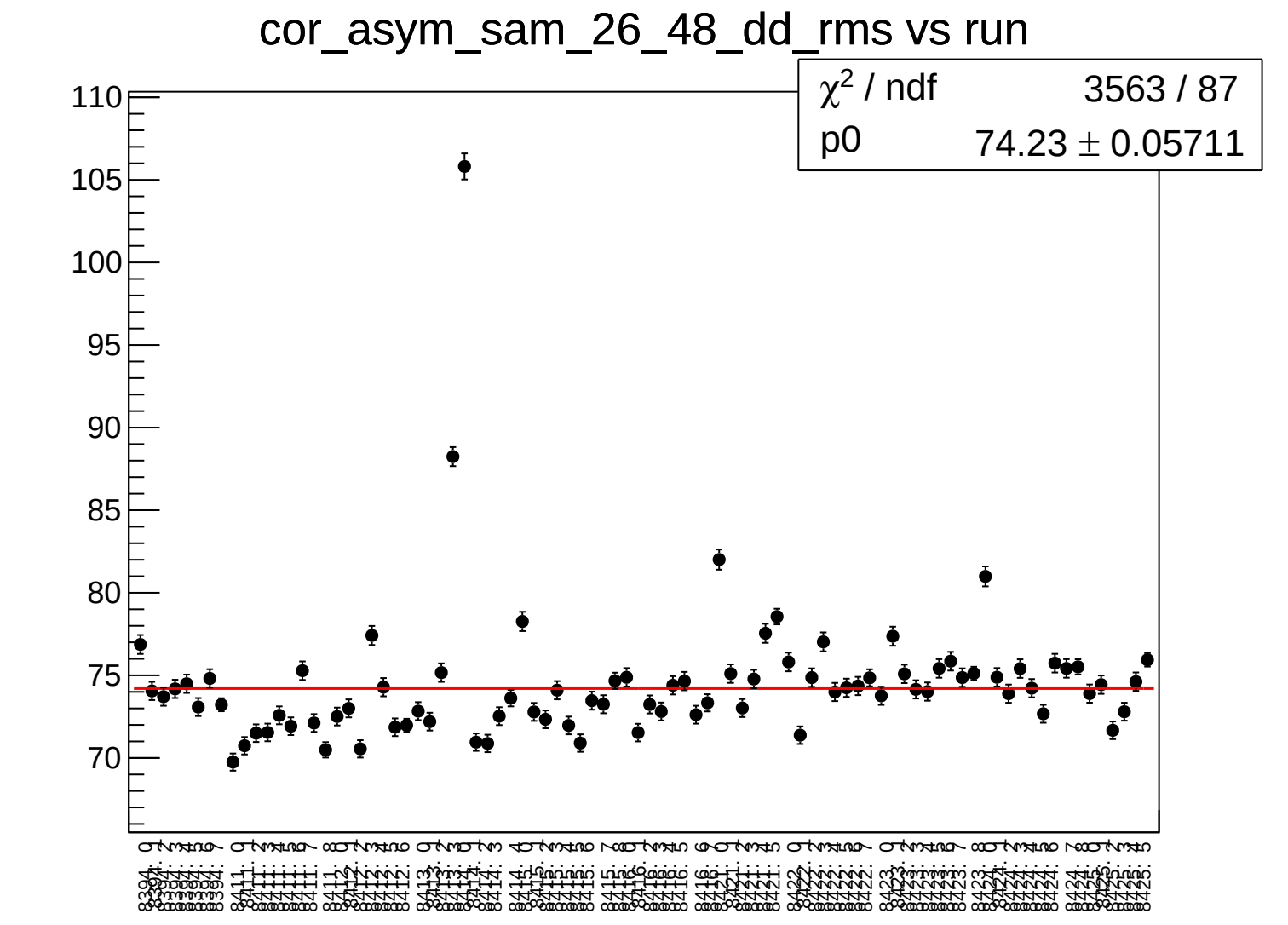

reg_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 3563 / 87
p0 74.23 ± 0.05711
110
105
100
95
90
85
80
75
70

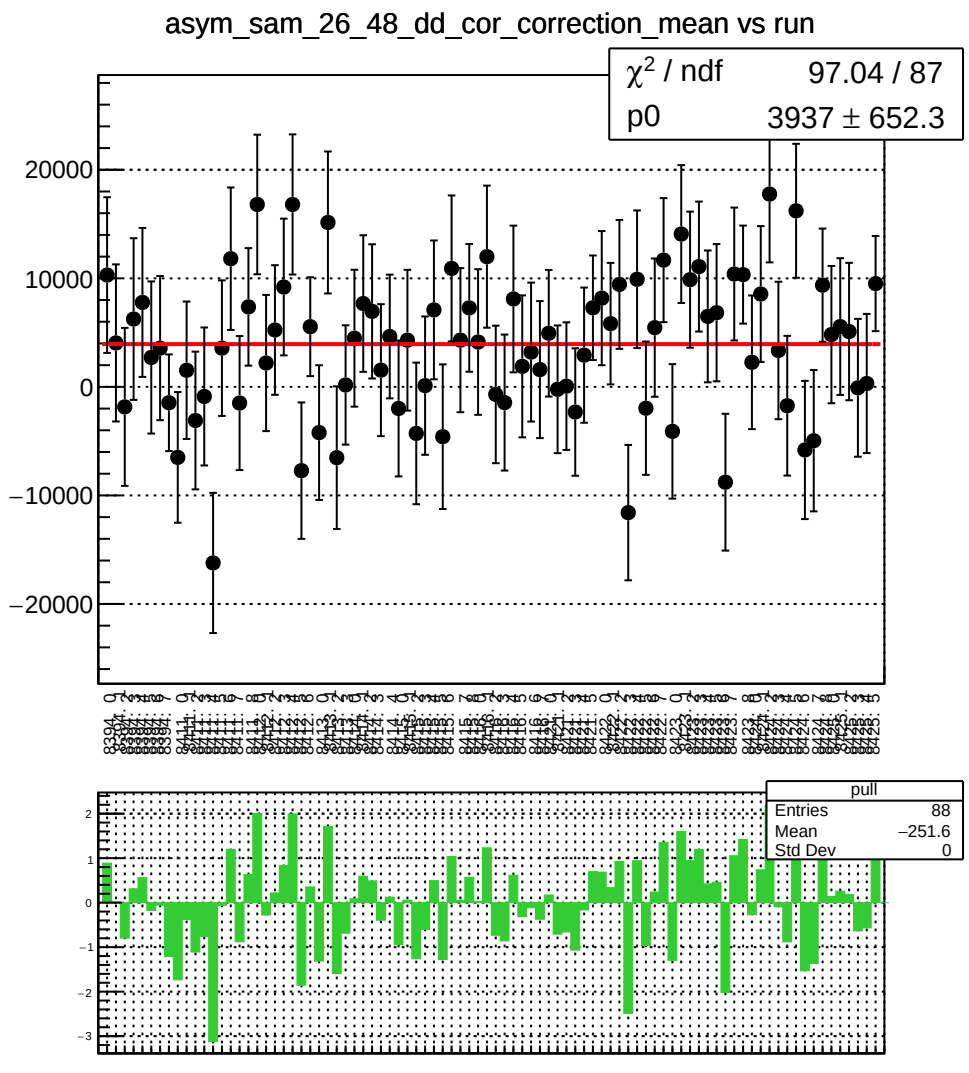

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 97.04 / 87
p0 3937 ± 652.3
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −251.6
Std Dev 0
pull1D
Entries 88
Mean −0.01373
Std Dev 1.05

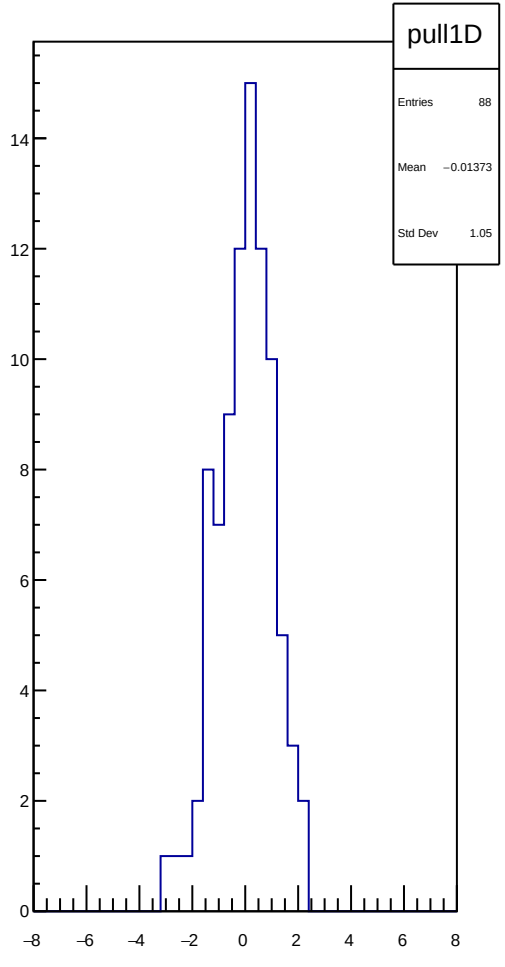

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 3566 / 87
p0 599.5 ± 0.4613
720
700
680
660
640
620
600
580
560
540
520

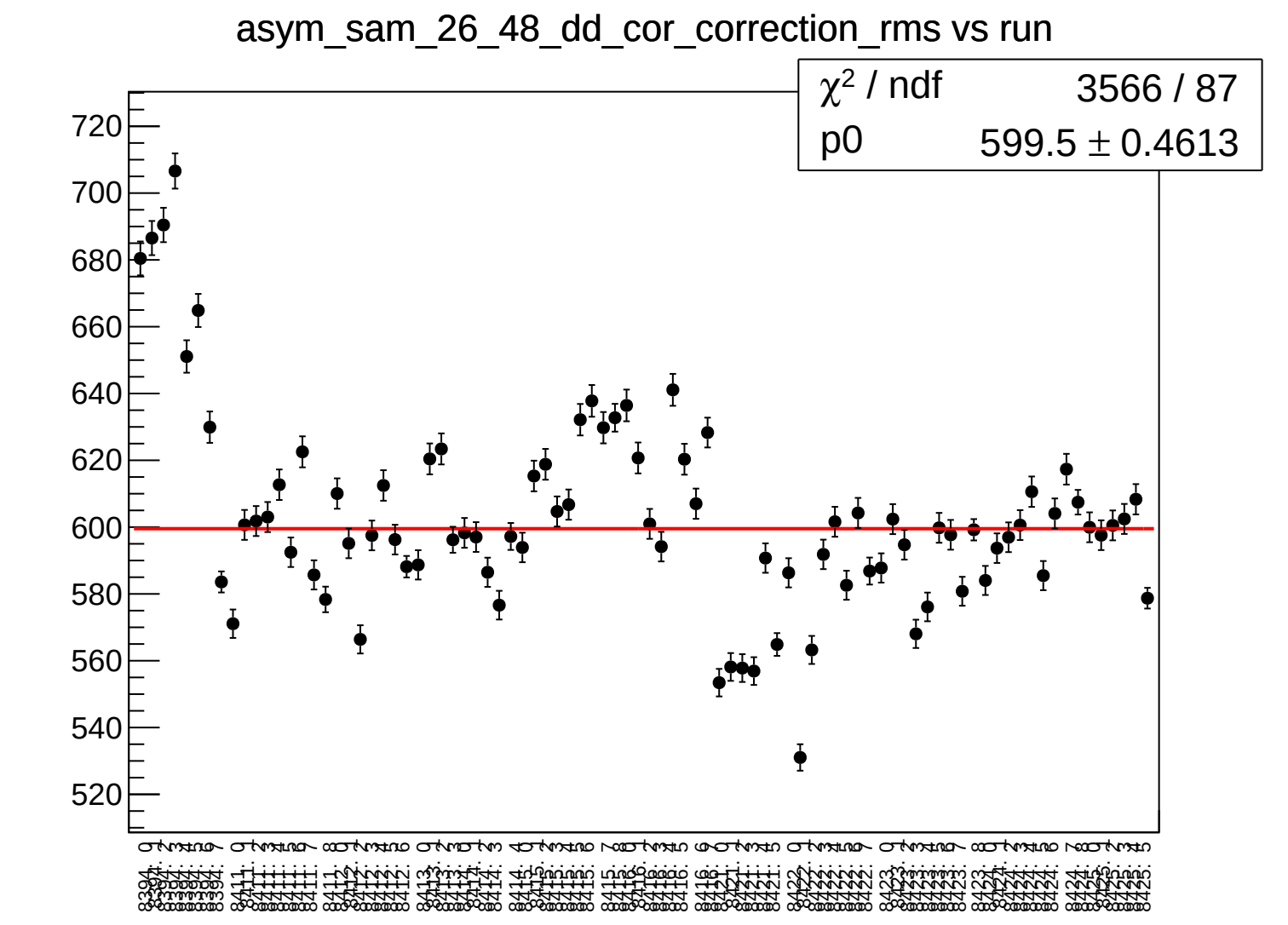

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 67.76 / 87
p0 −267.7 ± 80.76
pull
Entries 88
Mean 59.9
Std Dev 64.28

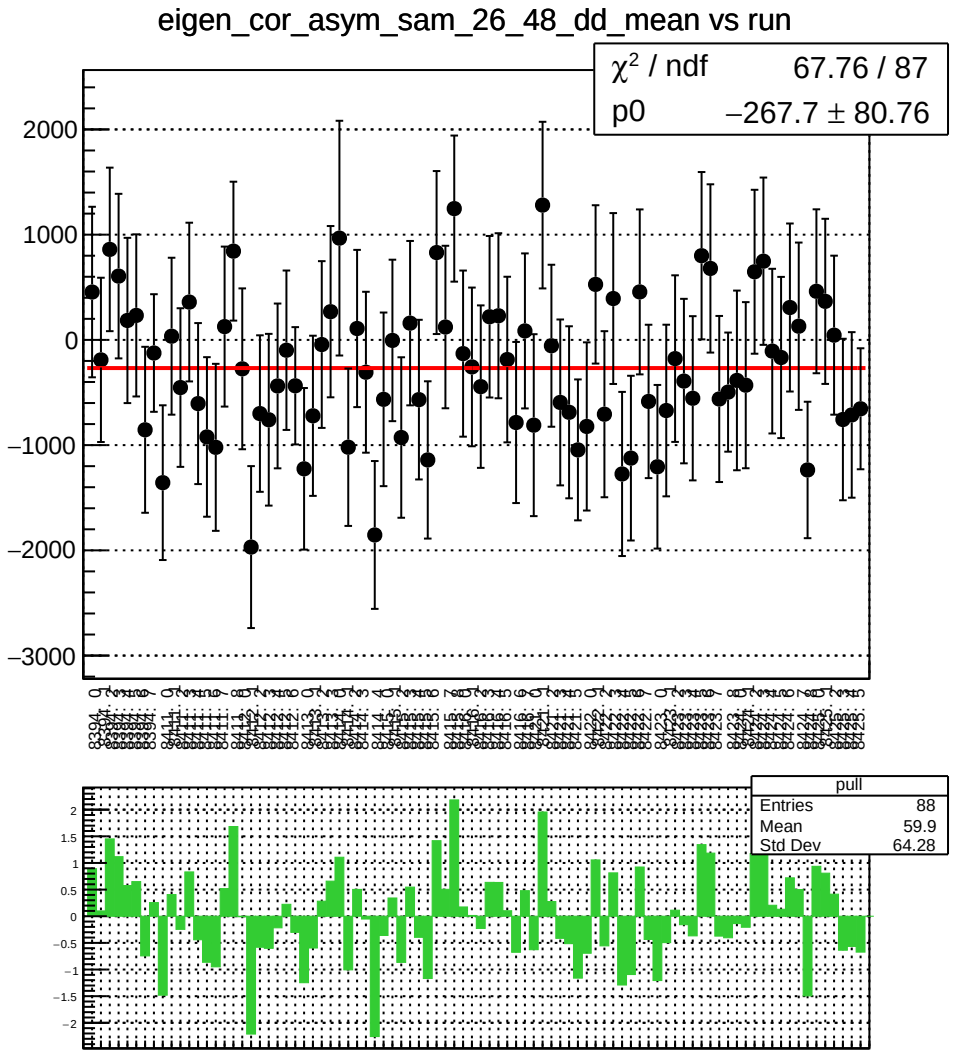

pull1D
Entries 88
Mean 0.01277
Std Dev 0.8774

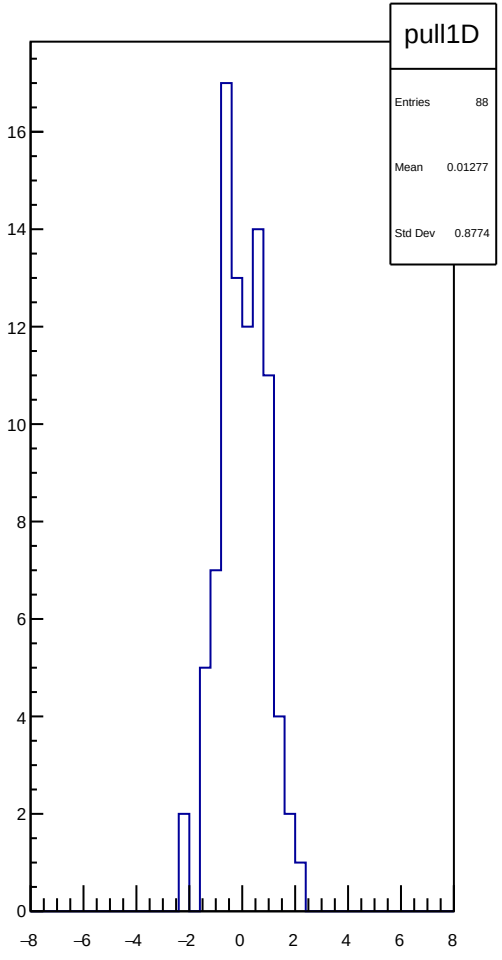

cor_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 3563 / 87
p0 74.23 ± 0.05711
110
105
100
95
90
85
80
75
70

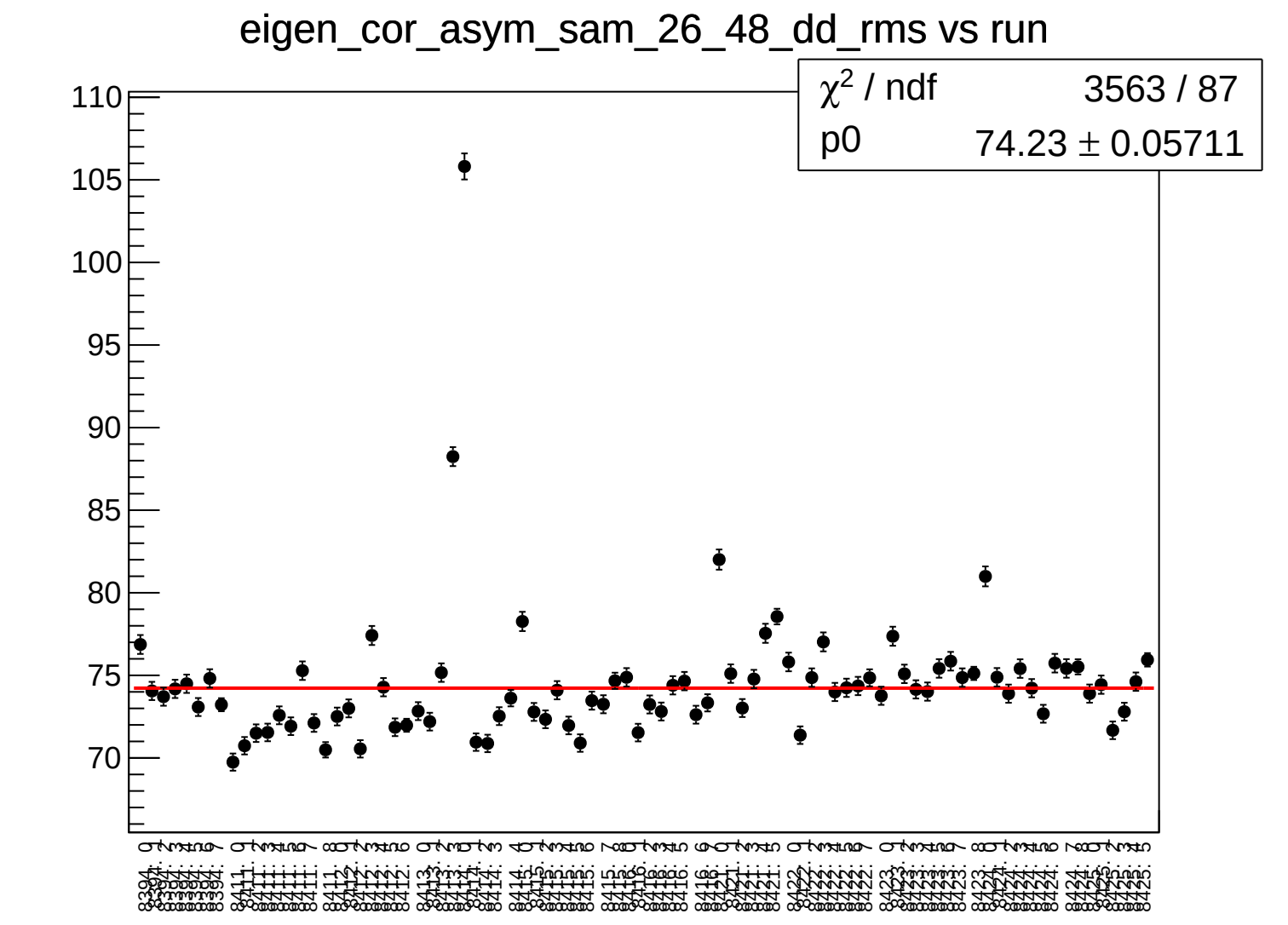

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 97.04 / 87
p0 3937 ± 652.3
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −251.6
Std Dev 0
2
1
0
−1
−2
−3

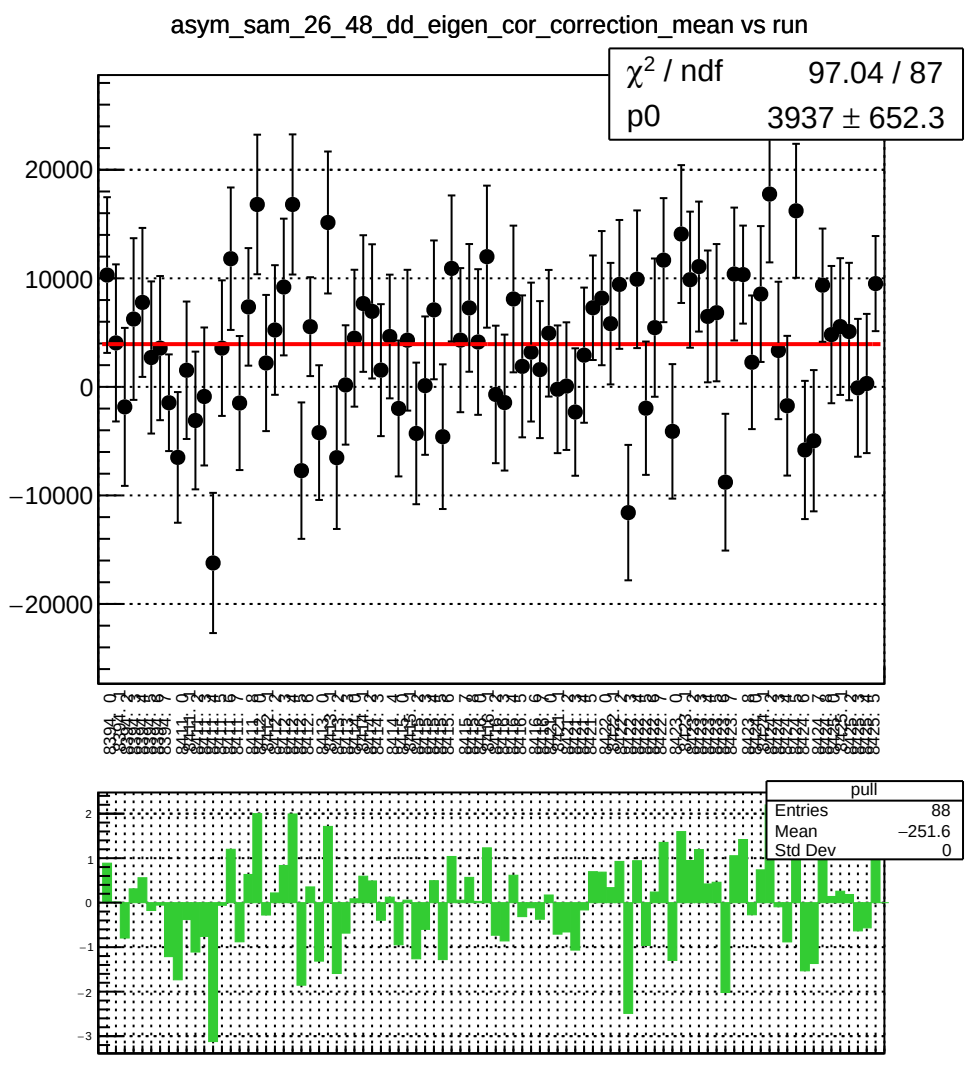

pull1D
Entries 88
Mean −0.01373
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

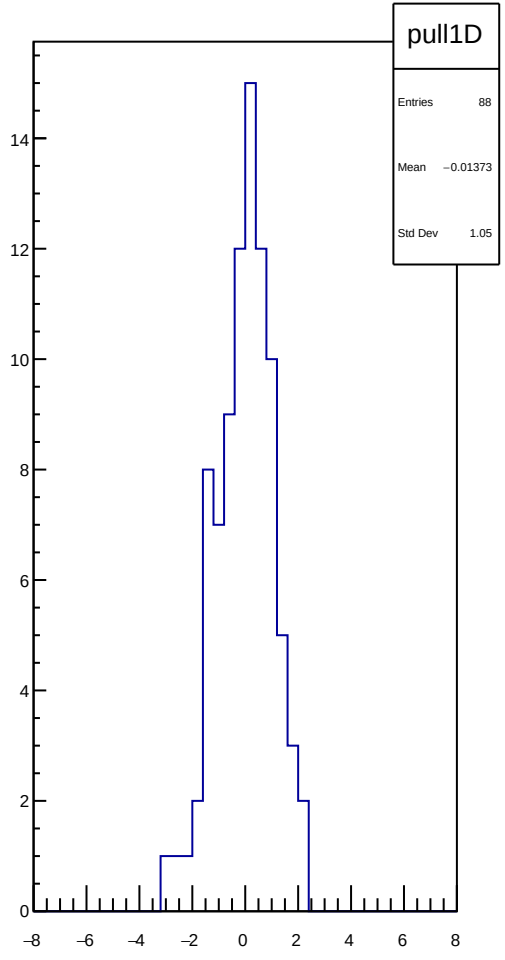

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 3566 / 87
p0 599.5 ± 0.4613
720
700
680
660
640
620
600
580
560
540
520

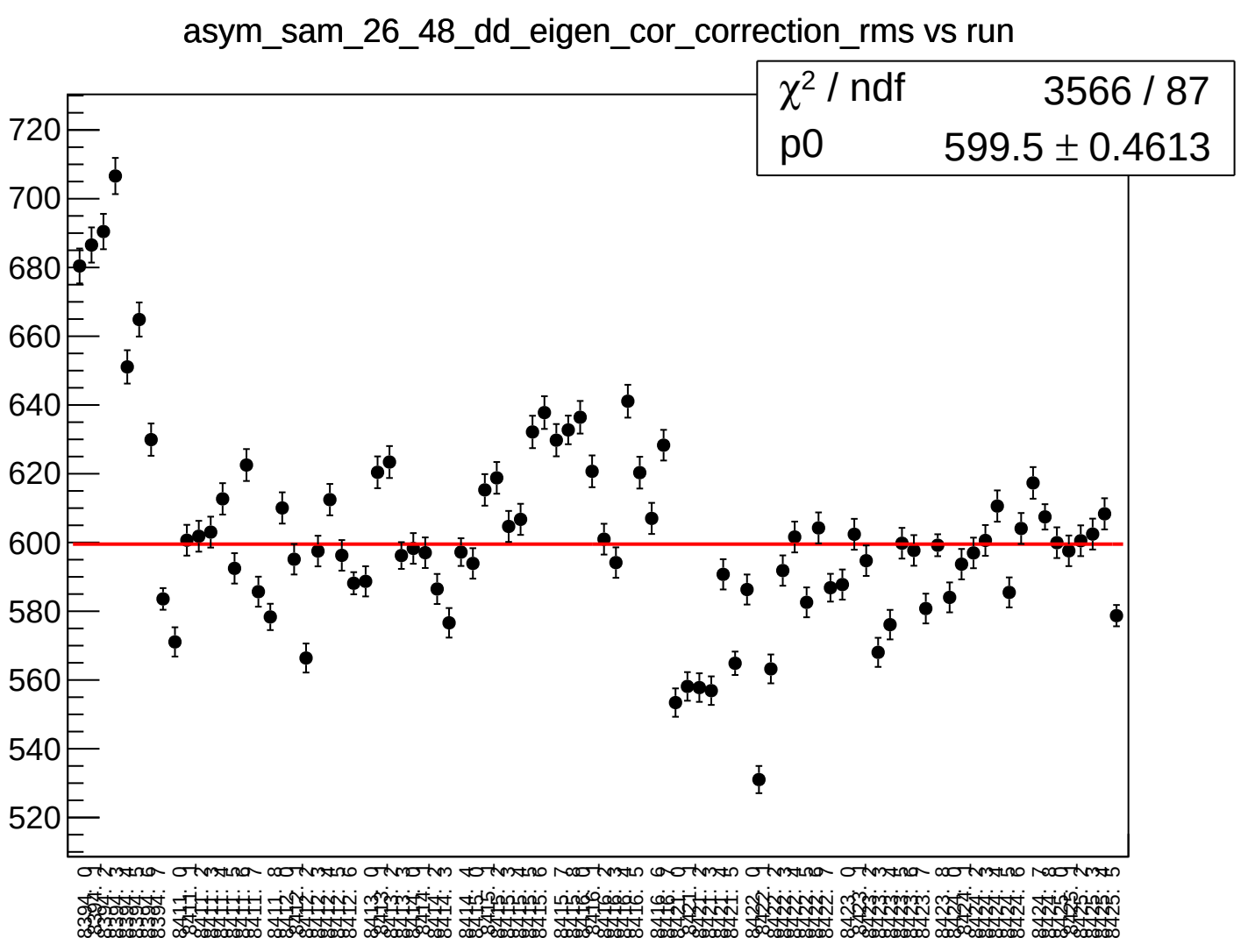

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 67.76 / 87
p0 −267.7 ± 80.76
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 59.9
Std Dev 64.28
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

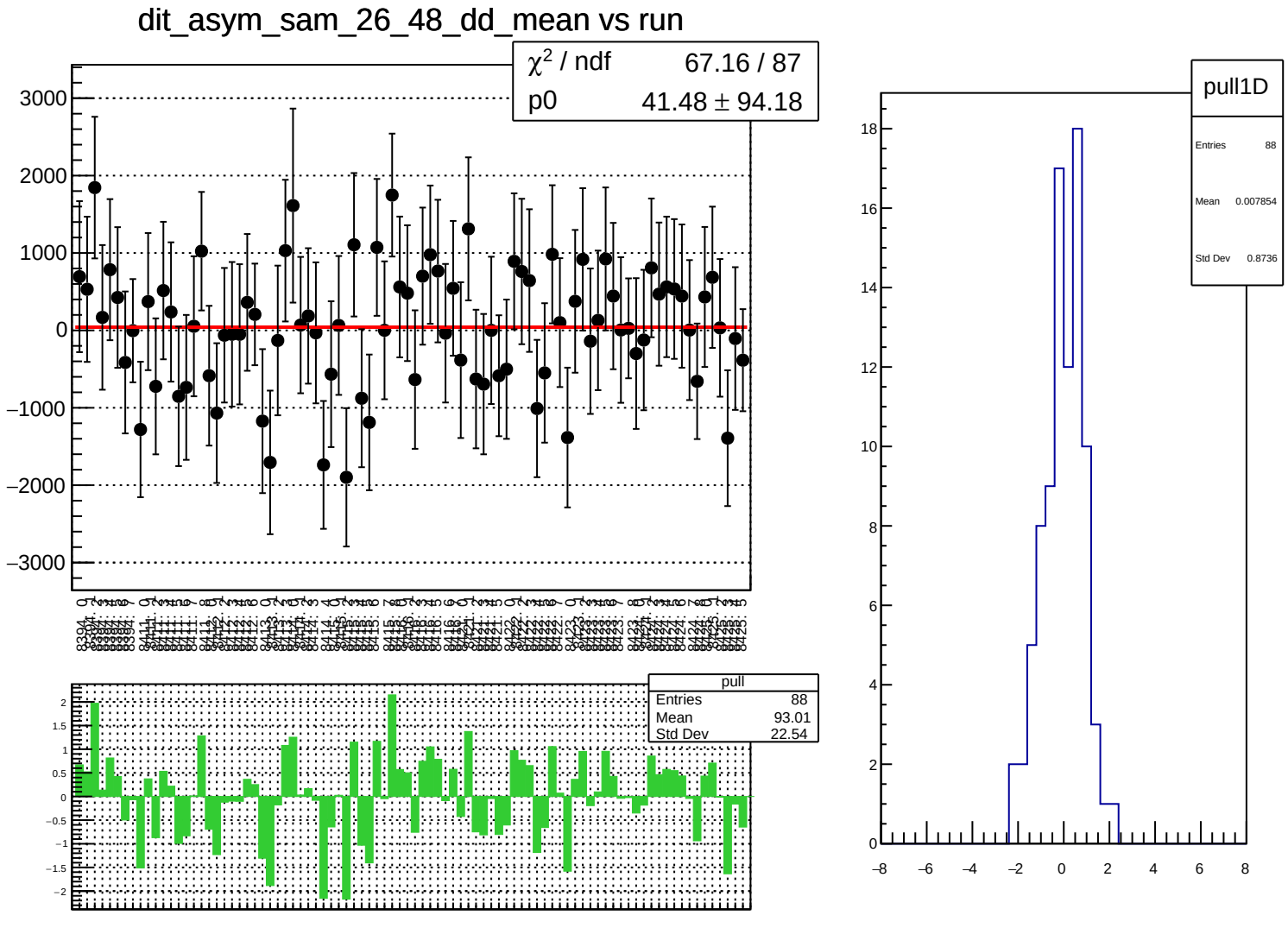

pull1D
Entries 88
Mean 0.01277
Std Dev 0.8774
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

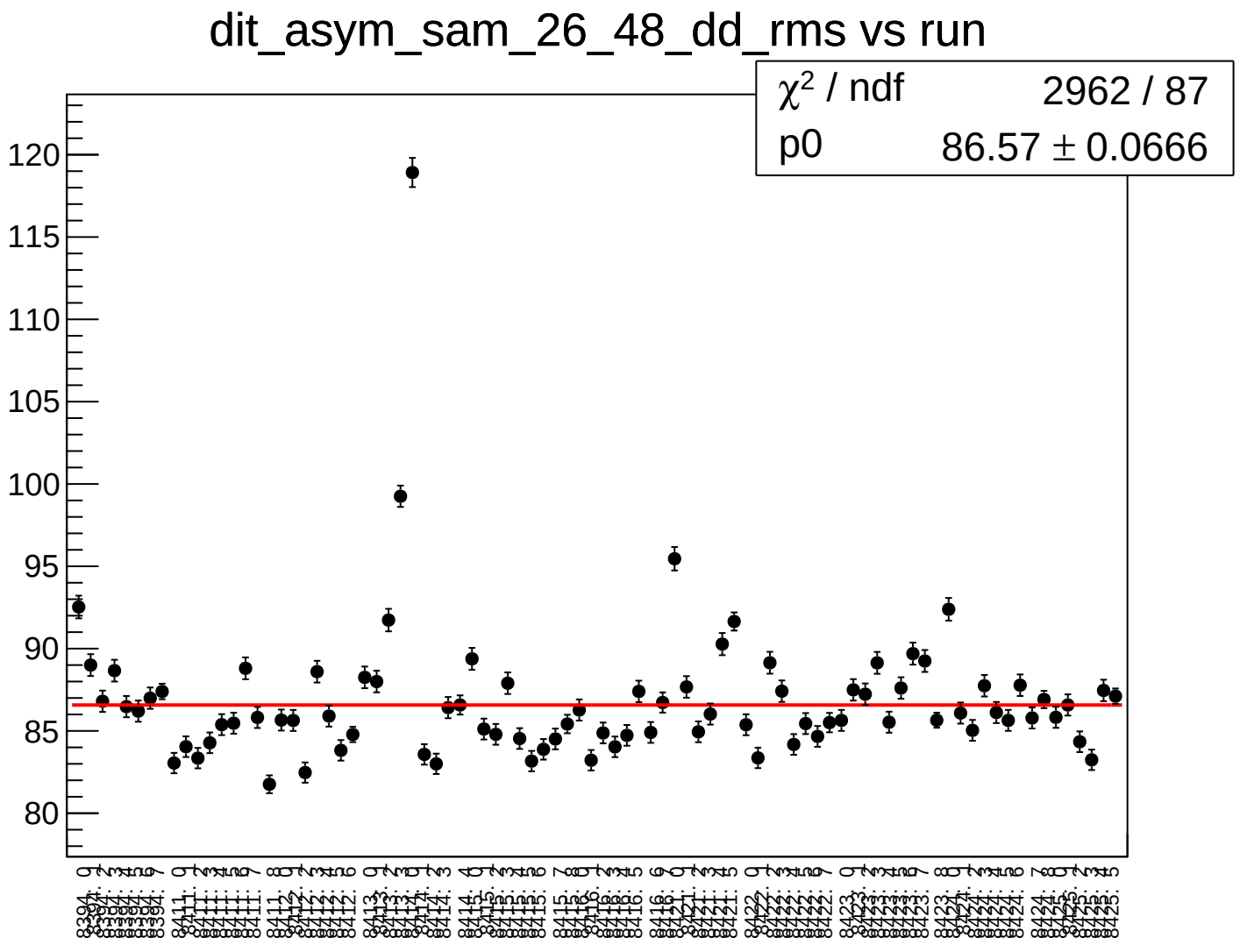

eigen_cor_asym_sam_26_48_dd_rms vs run
χ2 / ndf 3563 / 87
p0 74.23 ± 0.05711
110
105
100
95
90
85
80
75
70

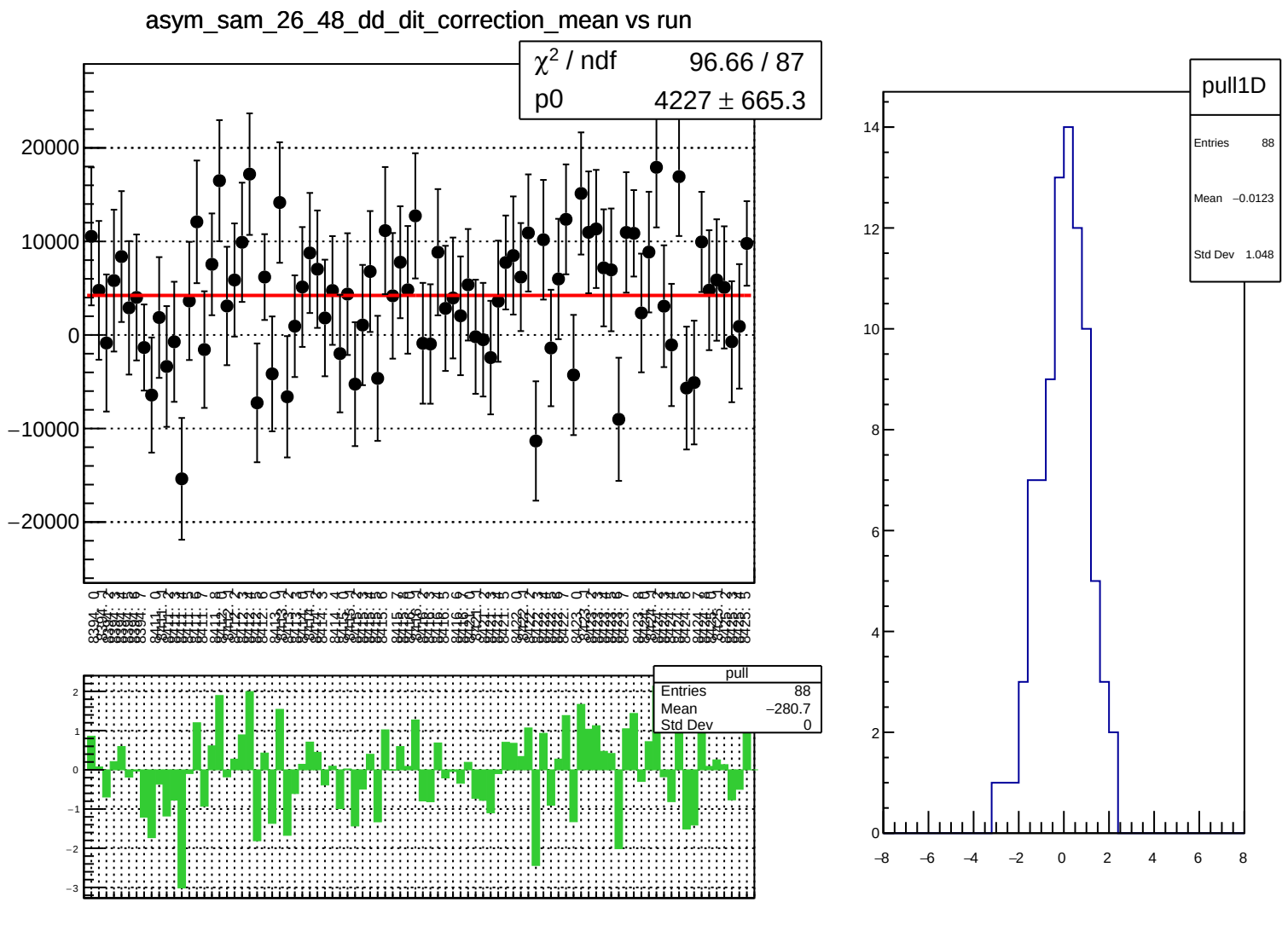

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 97.04 / 87
p0 3937 ± 652.3
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −251.6
Std Dev 0
2
1
0
−1
−2
−3

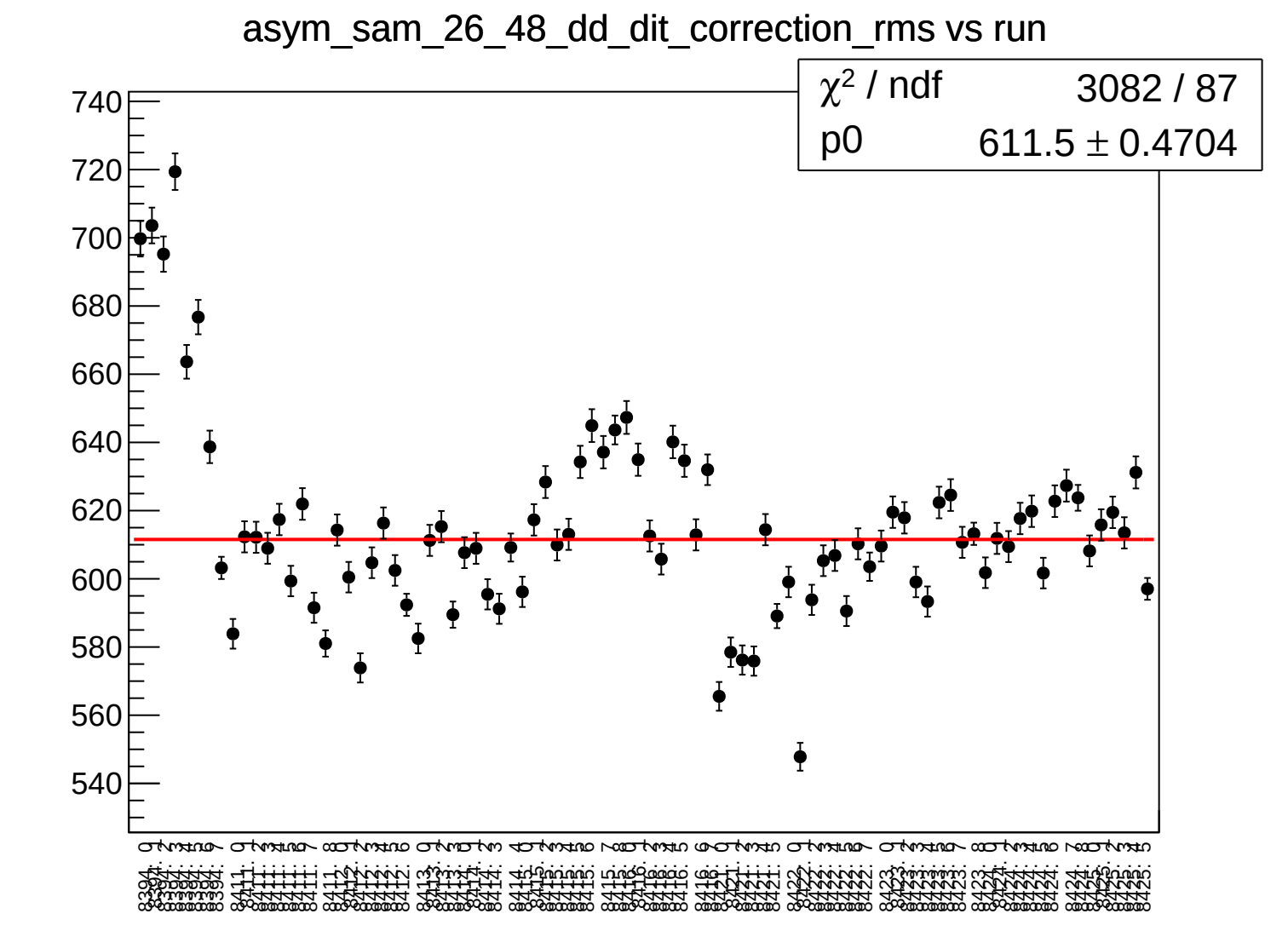

pull1D
Entries 88
Mean −0.01373
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

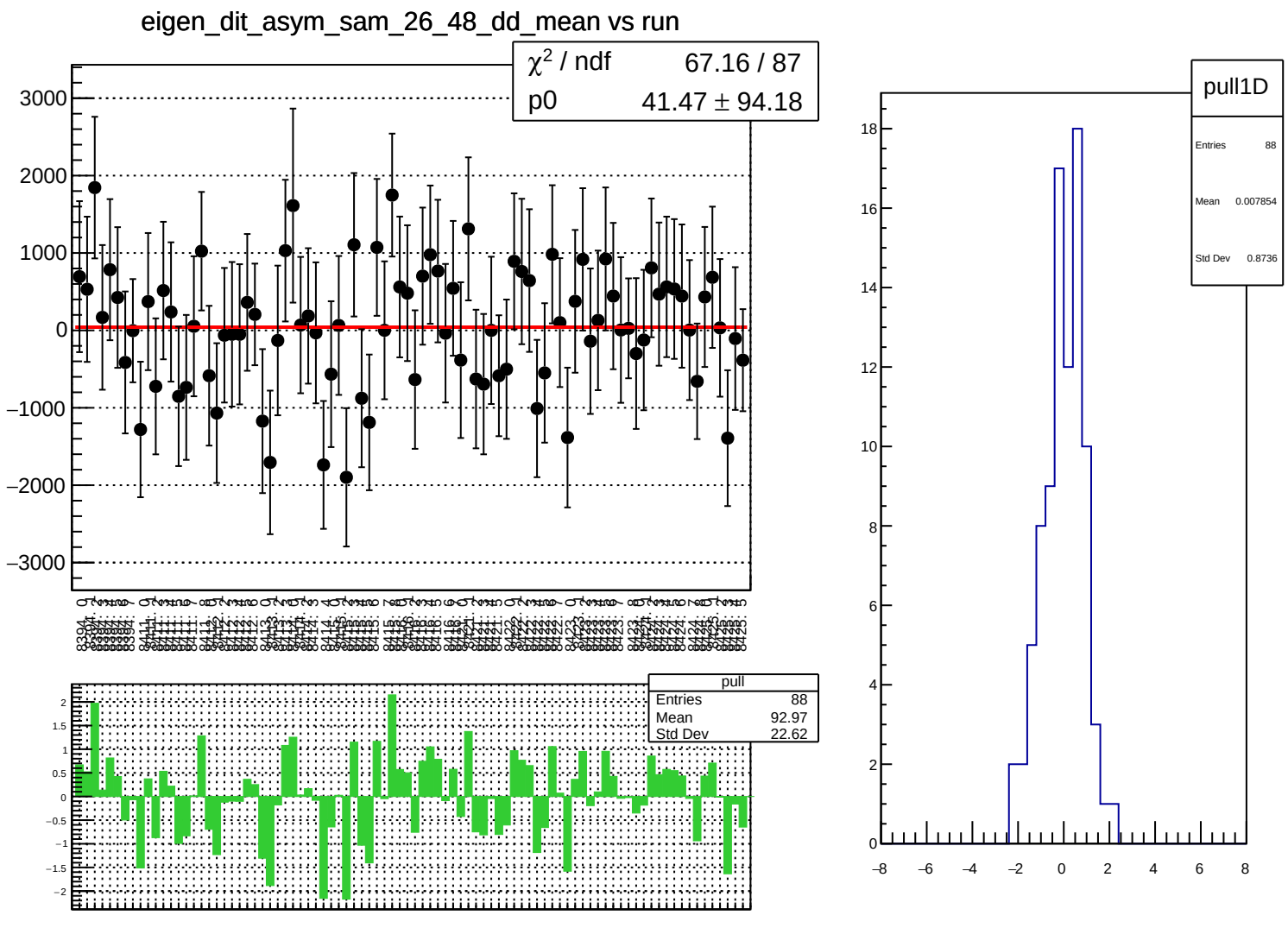

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 3566 / 87
p0 599.5 ± 0.4613
720
700
680
660
640
620
600
580
560
540
520

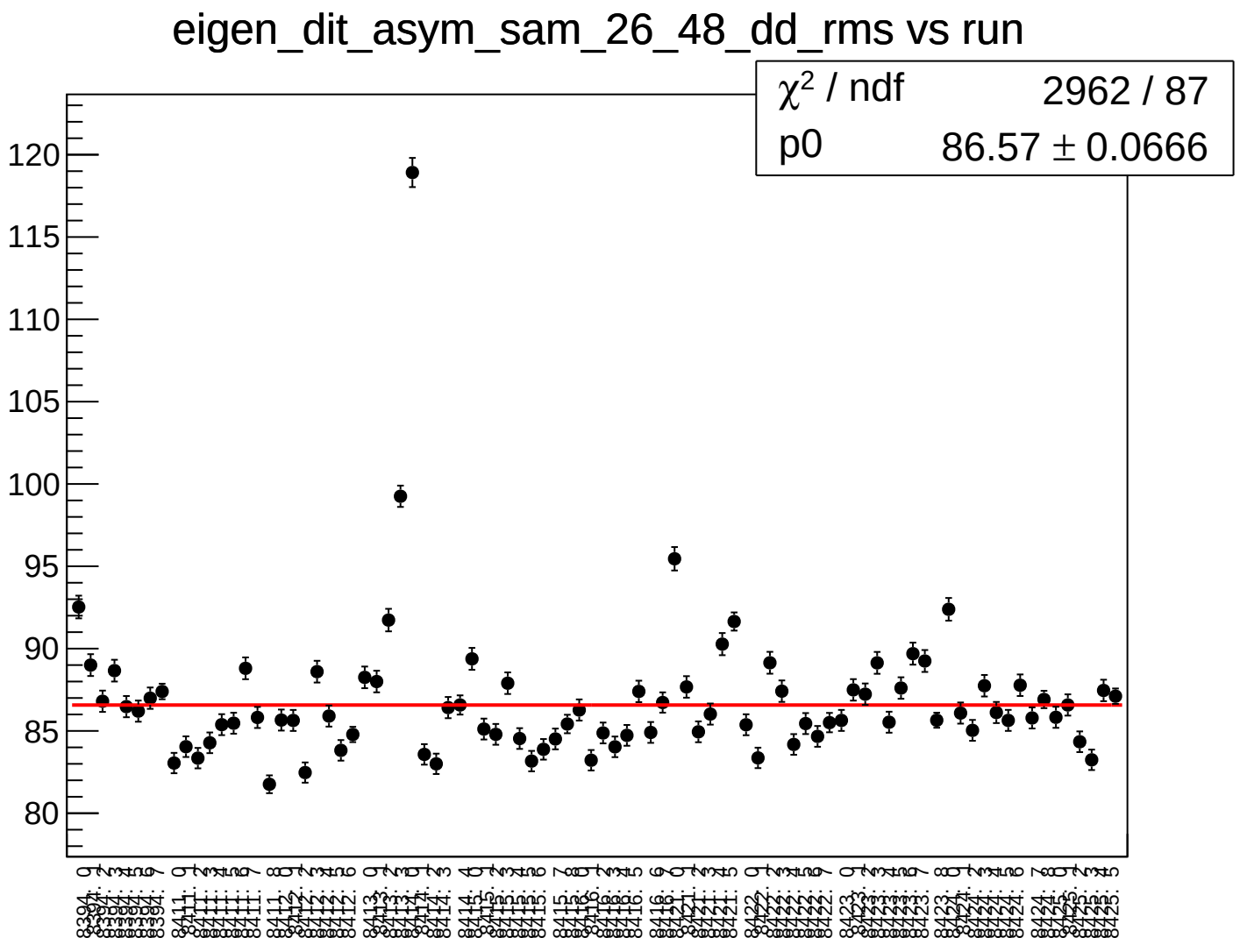

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 67.16 / 87
p0 41.48 ± 94.18
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 93.01
Std Dev 22.54
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean 0.007854
Std Dev 0.8736
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

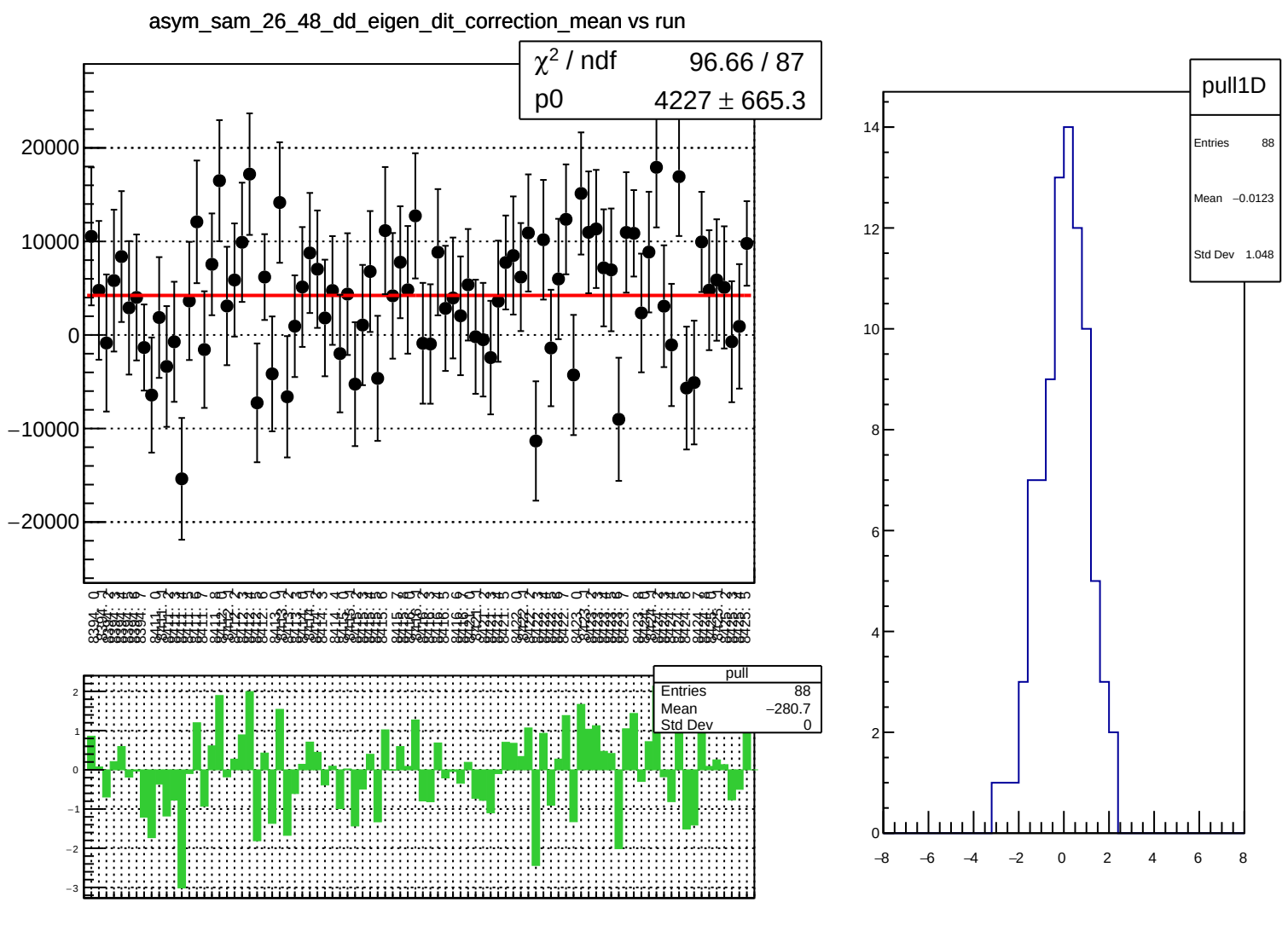

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 2962 / 87
p0 86.57 ± 0.0666
120
115
110
105
100
95
90
85
80

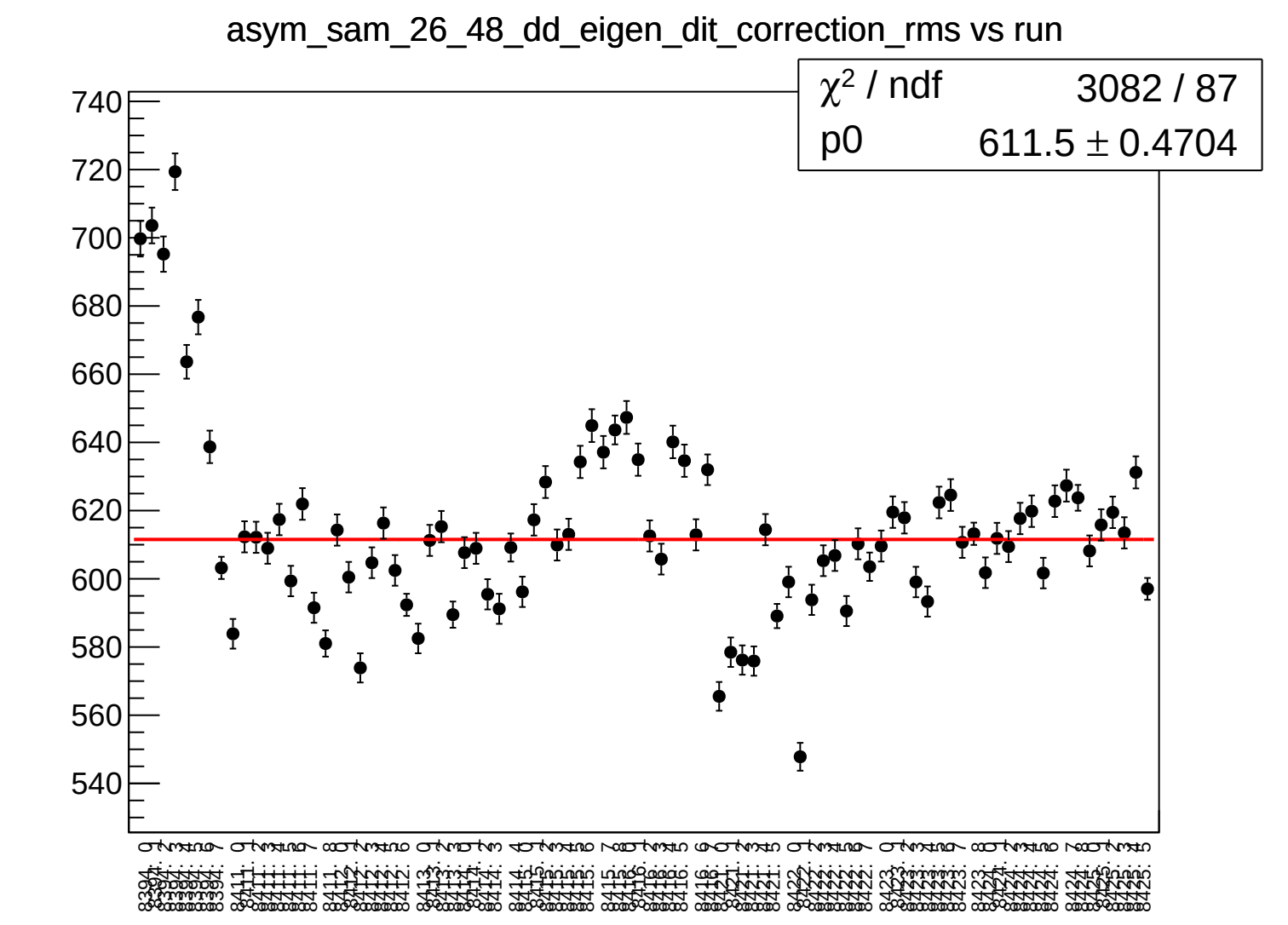

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 96.66 / 87
p0 4227 ± 665.3
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −280.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.0123
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

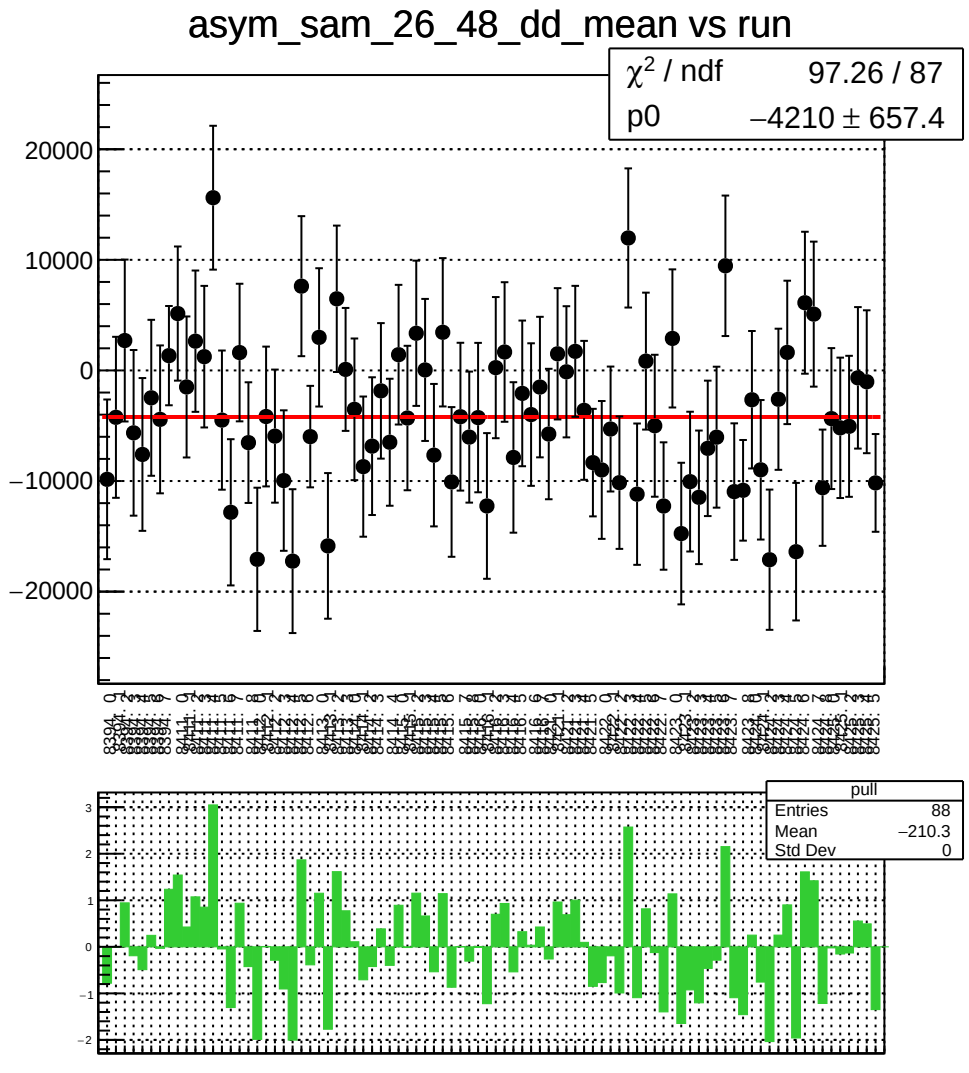

asym_sam_26_48_dd_dit_correction_rms vs run
χ^2 / ndf 3082 / 87
p0 611.5 ± 0.4704
740
720
700
680
660
640
620
600
580
560
540

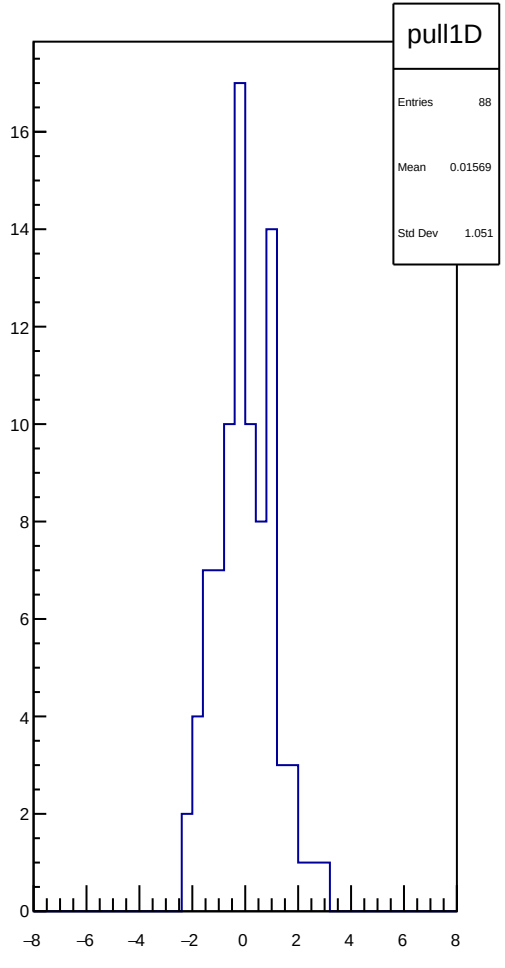

eigen_dit_asym_sam_26_48_dd_mean vs run
χ^2 / ndf 67.16 / 87
p0 41.47 ± 94.18
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 92.97
Std Dev 22.62
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean 0.007854
Std Dev 0.8736
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

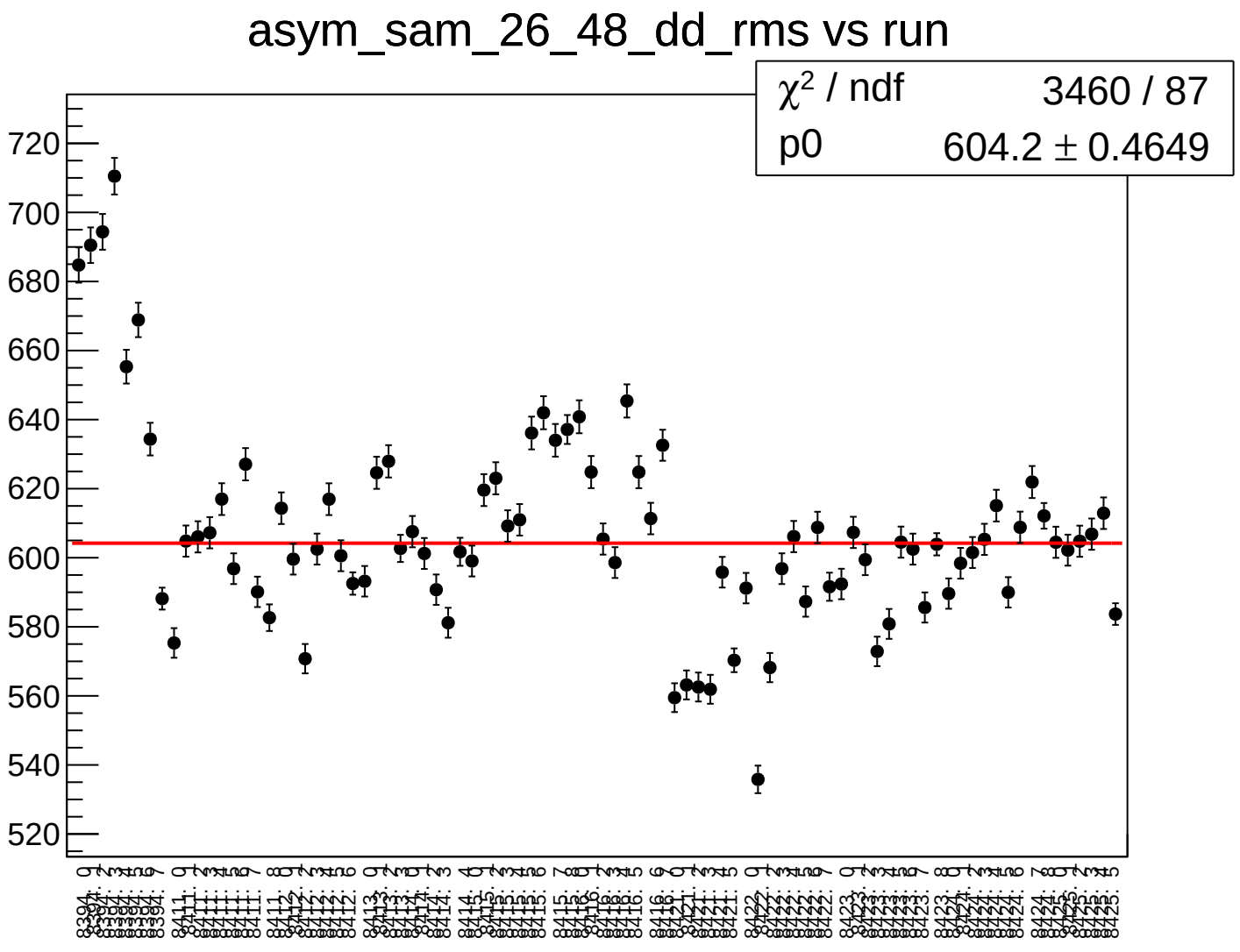

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 2962 / 87
p0 86.57 ± 0.0666
120
115
110
105
100
95
90
85
80

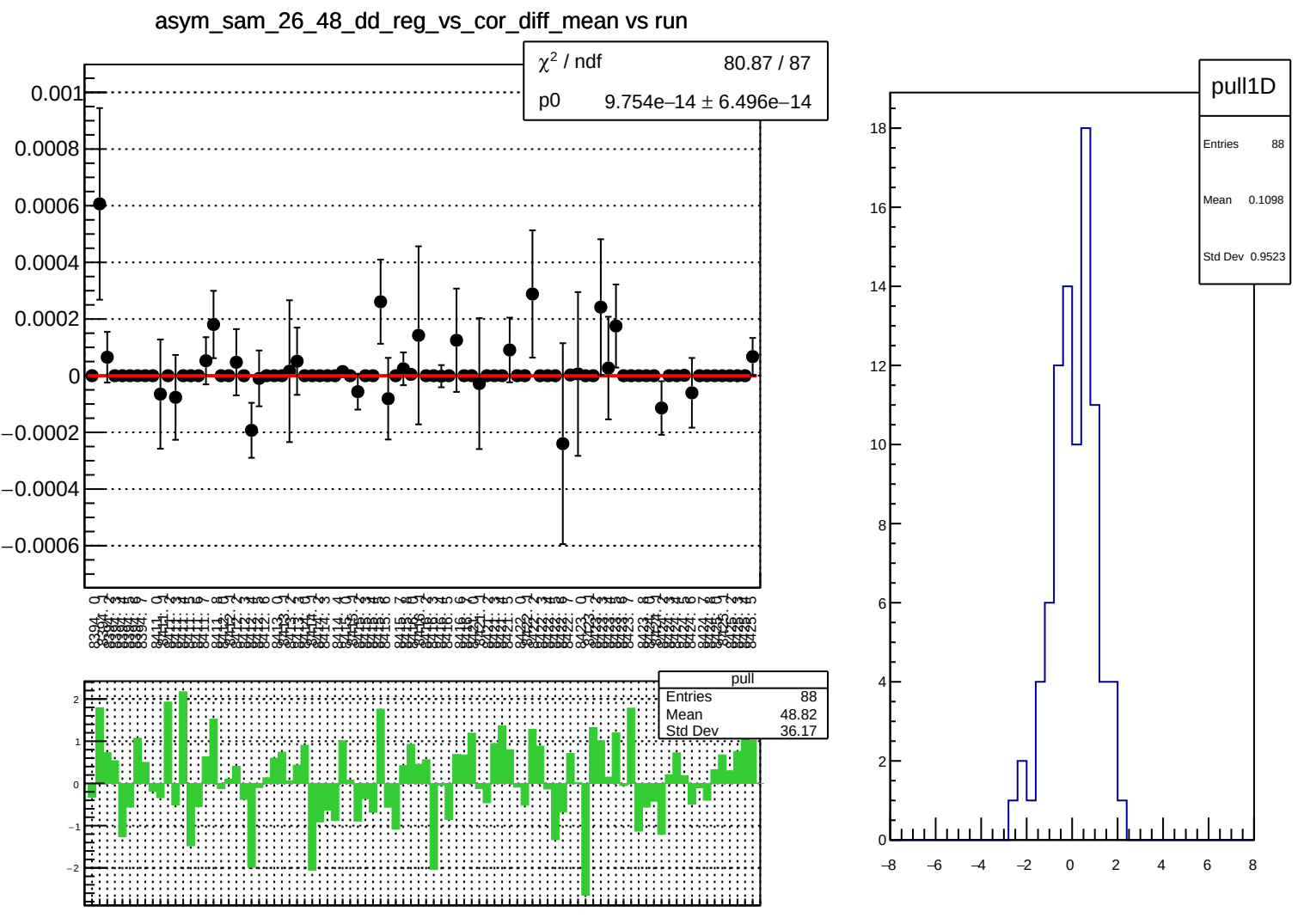

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 96.66 / 87
p0 4227 ± 665.3
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −280.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.0123
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

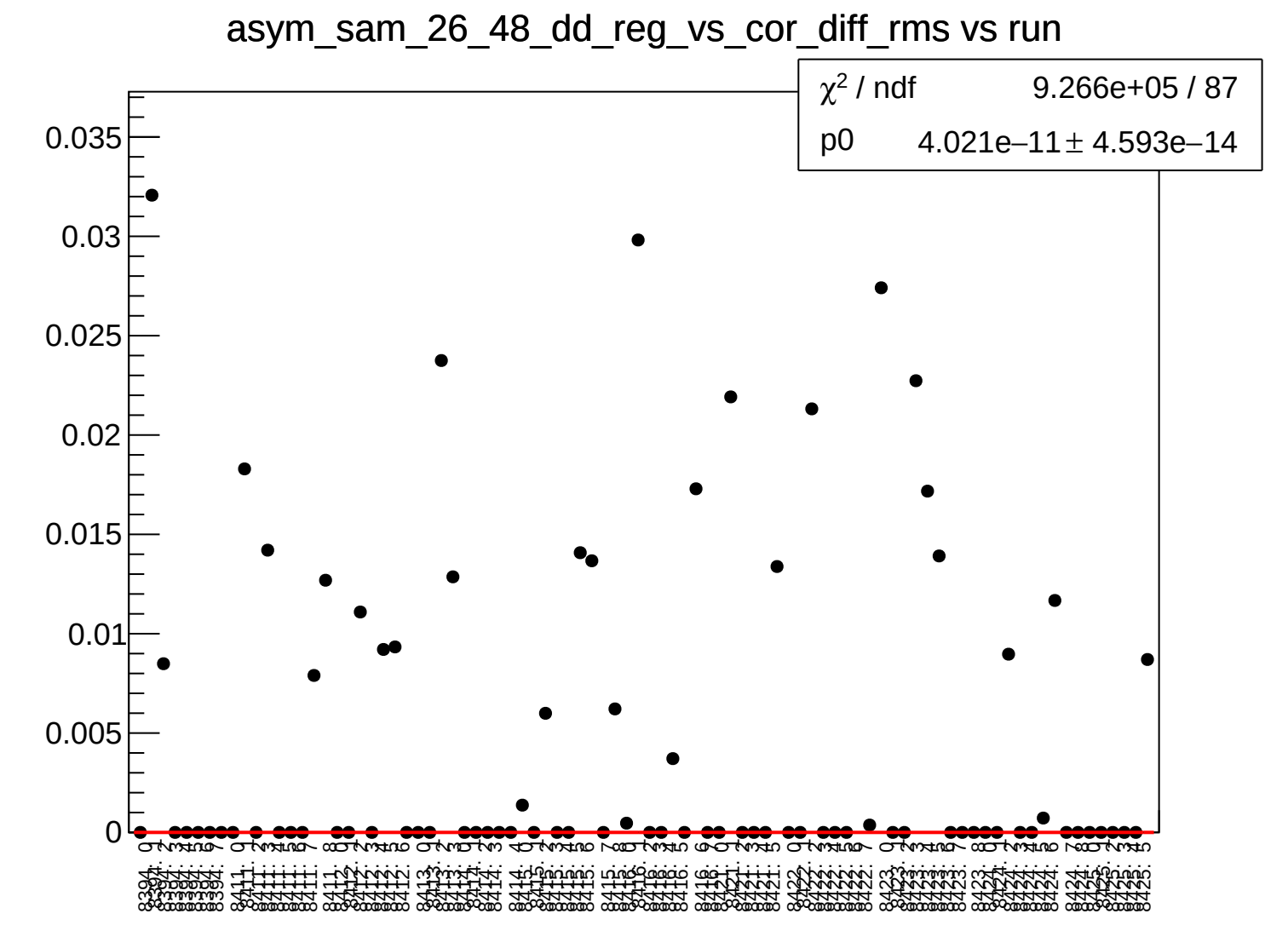

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 3082 / 87
p0 611.5 ± 0.4704
740
720
700
680
660
640
620
600
580
560
540

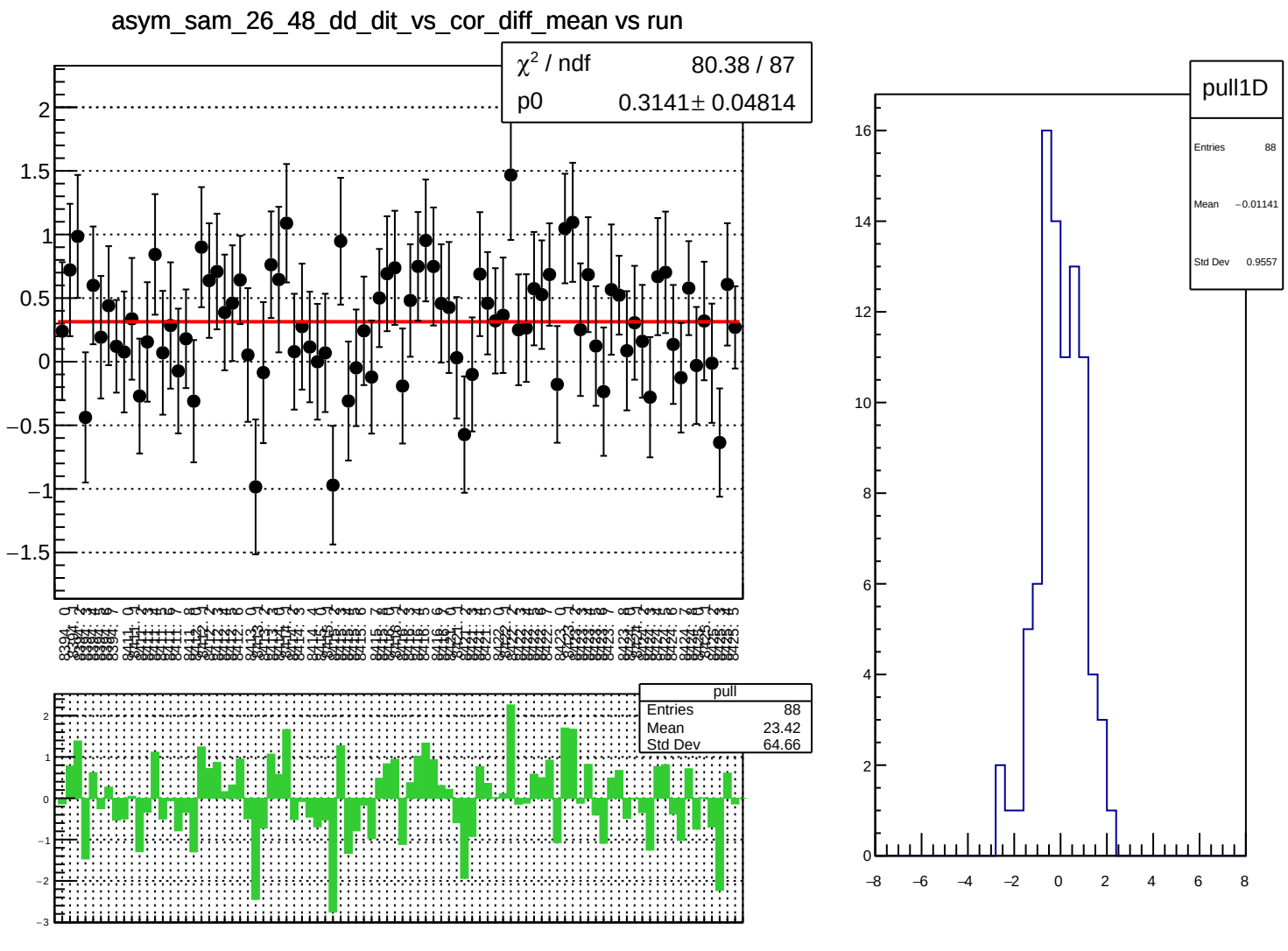

asym_sam_26_48_dd_mean vs run
χ² / ndf 97.26 / 87
p0 −4210 ± 657.4
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −210.3
Std Dev 0
3
2
1
0
−1
−2

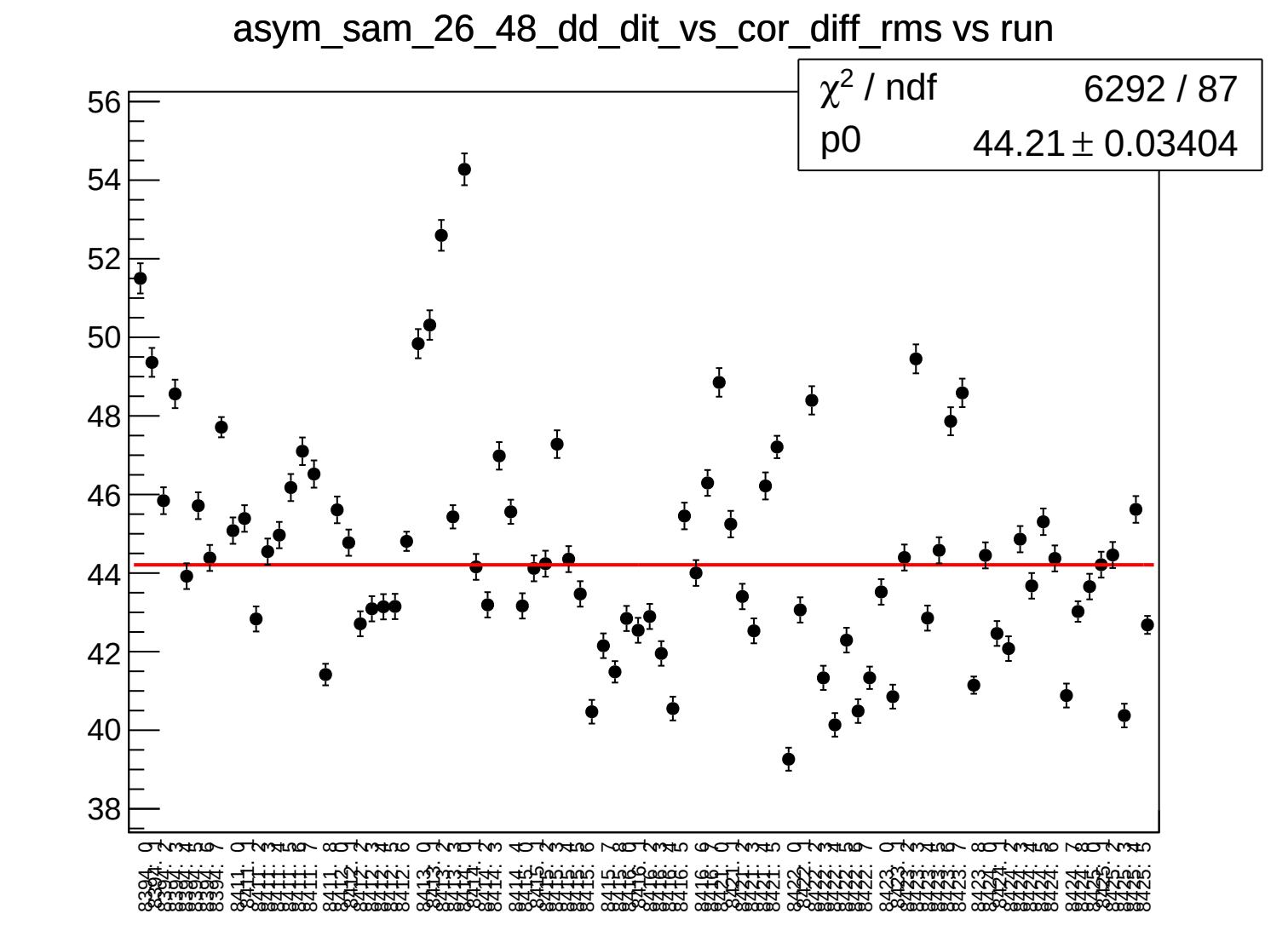

pull1D
Entries 88
Mean 0.01569
Std Dev 1.051
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

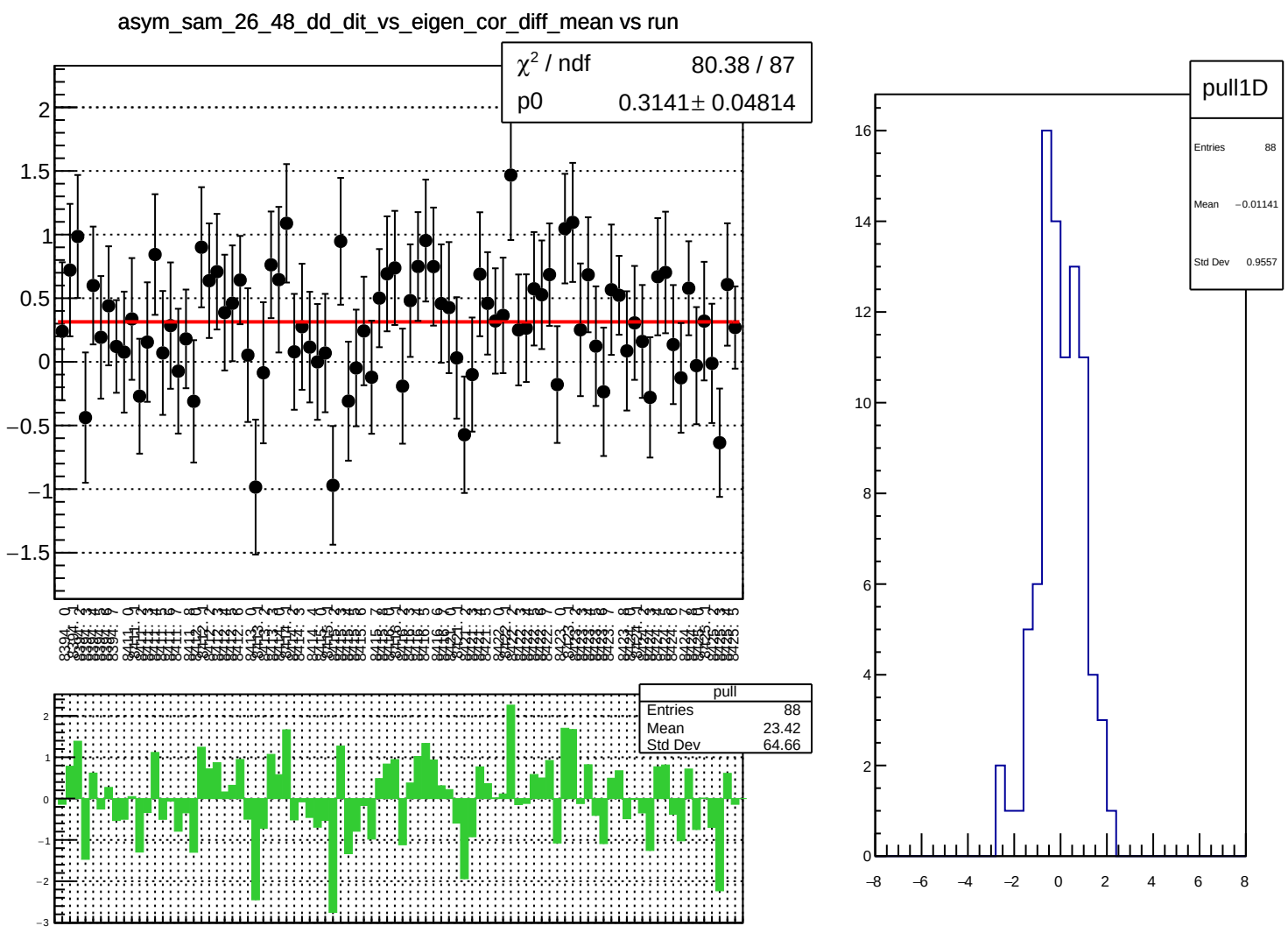

asym_sam_26_48_dd_rms vs run
χ² / ndf 3460 / 87
p0 604.2 ± 0.4649
720
700
680
660
640
620
600
580
560
540
520

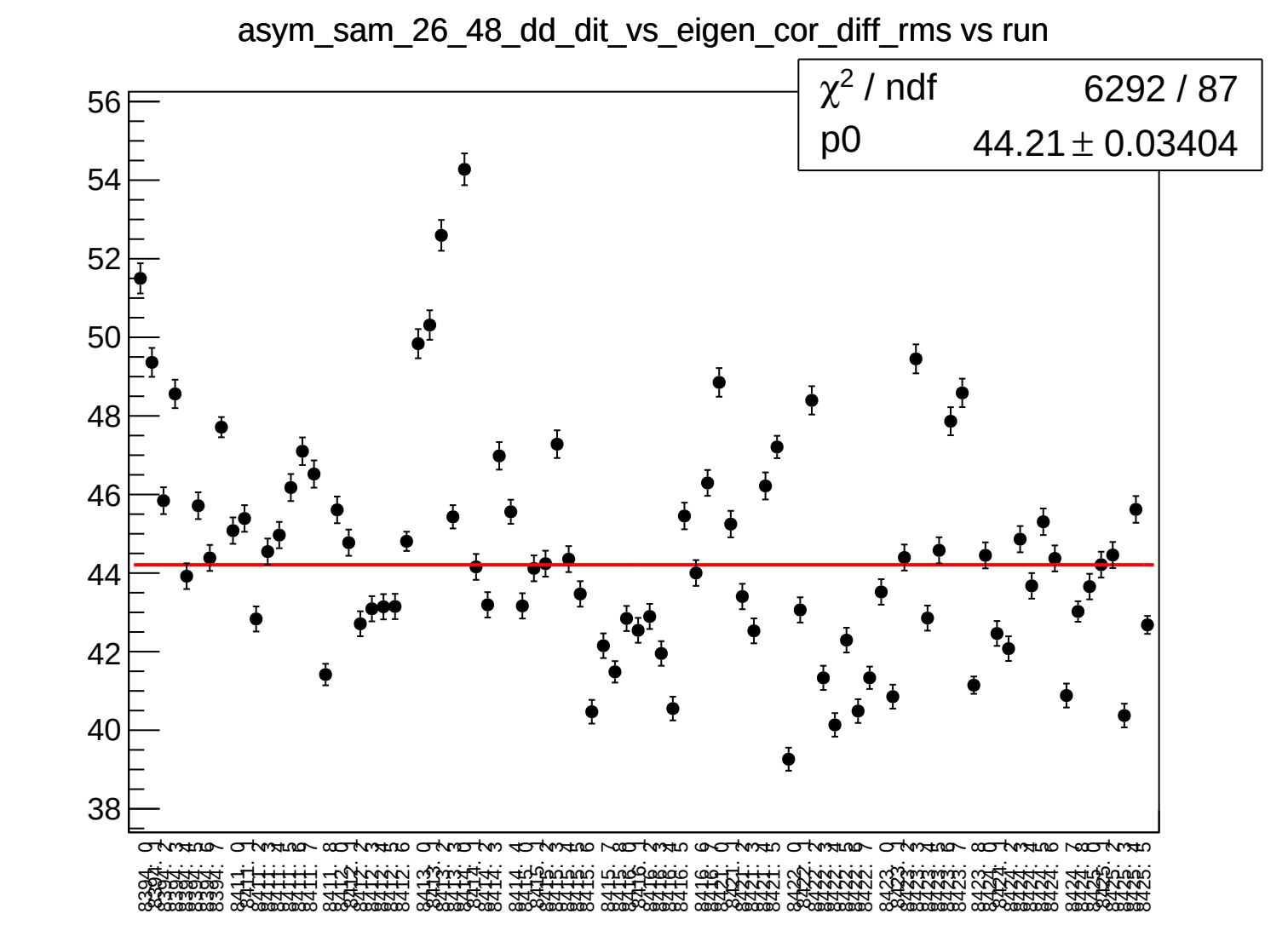

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 80.87 / 87
p0 9.754e−14 ± 6.496e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
pull
Entries 88
Mean 48.82
Std Dev 36.17
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.1098
Std Dev 0.9523
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

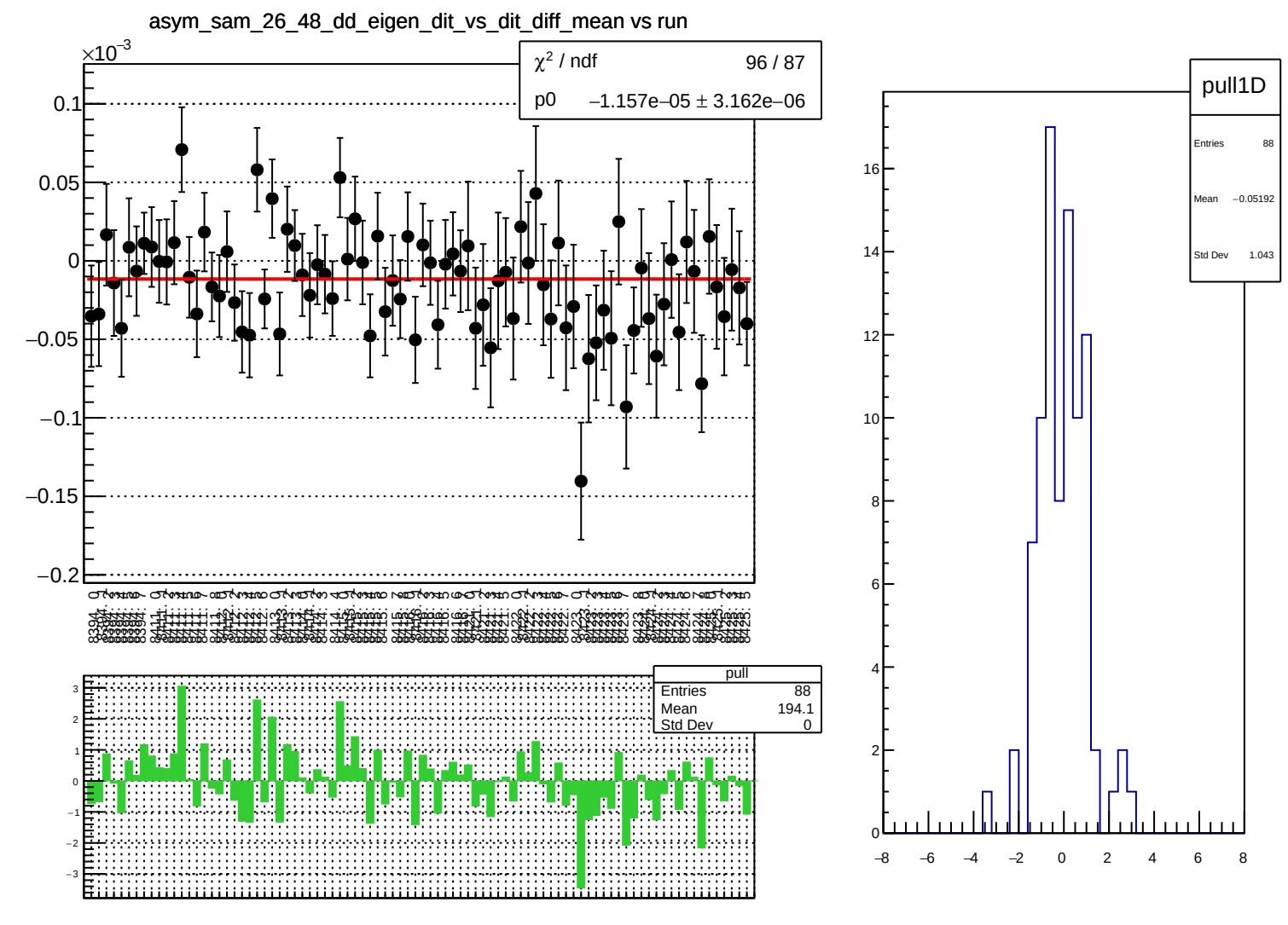

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.266e+05 / 87
p0 4.021e−11 ± 4.593e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

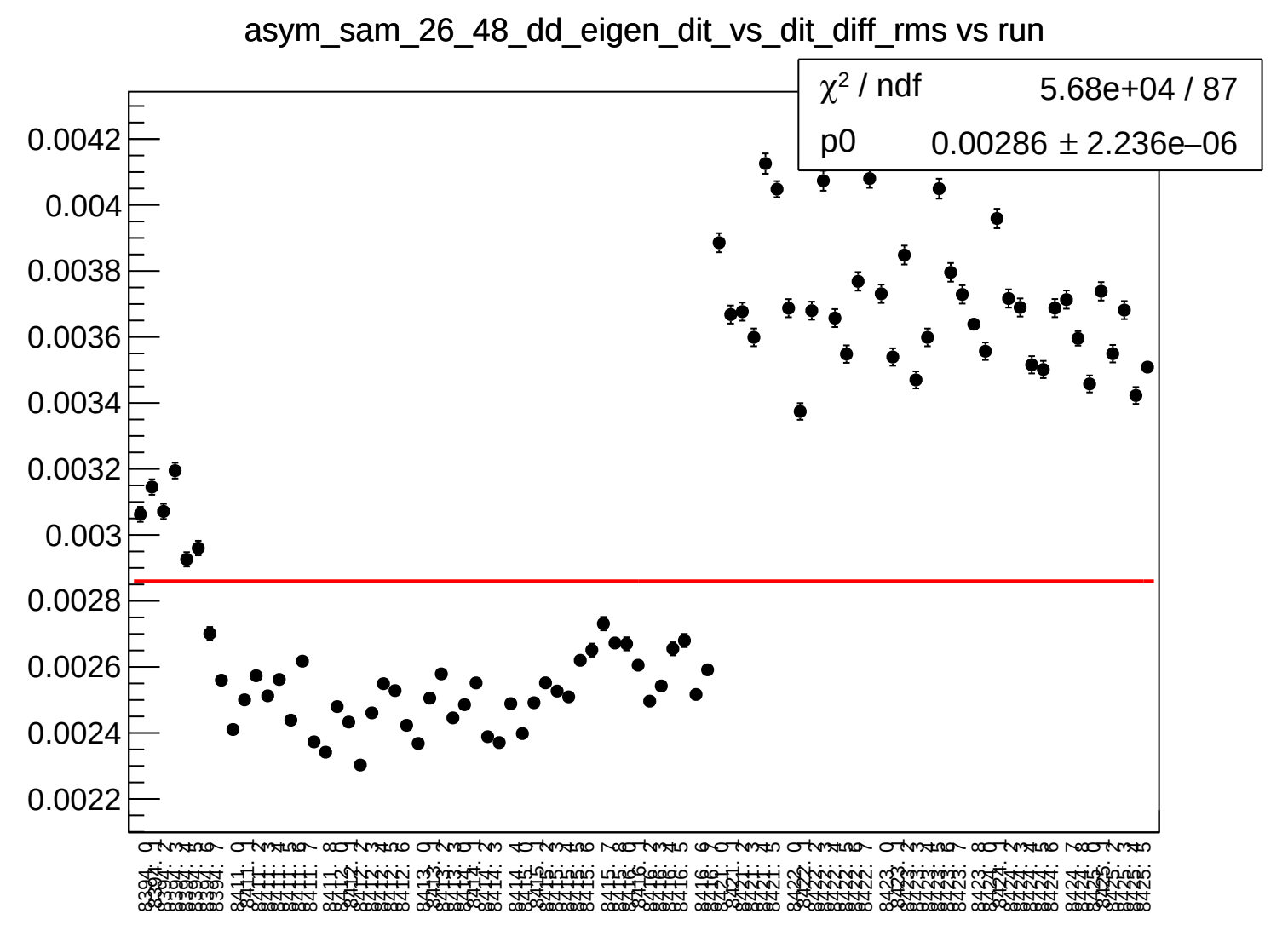

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 80.38 / 87
p0 0.3141± 0.04814
pull
Entries 88
Mean 23.42
Std Dev 64.66
pull1D
Entries 88
Mean −0.01141
Std Dev 0.9557

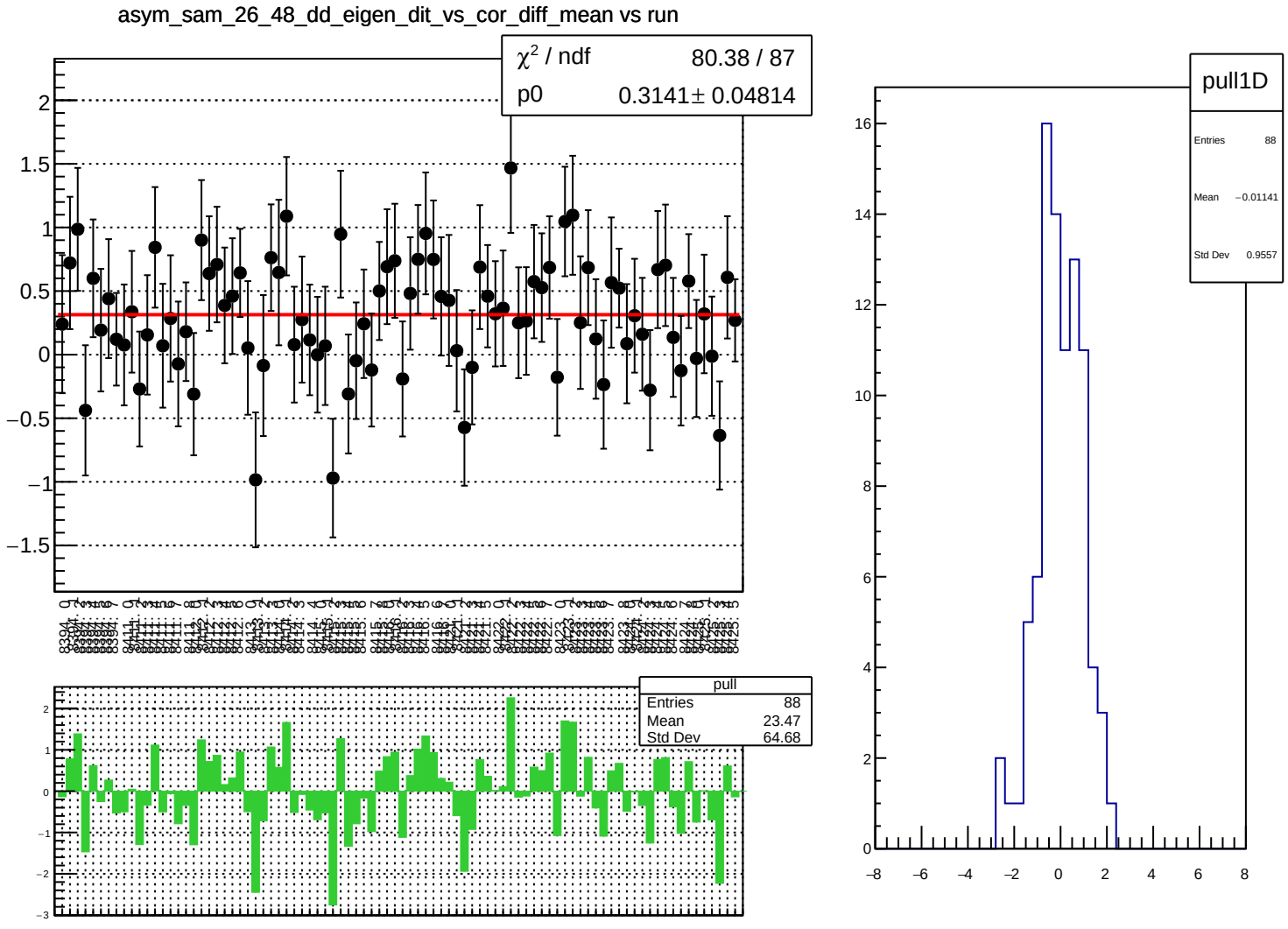

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6292 / 87
p0 44.21 ± 0.03404
56
54
52
50
48
46
44
42
40
38

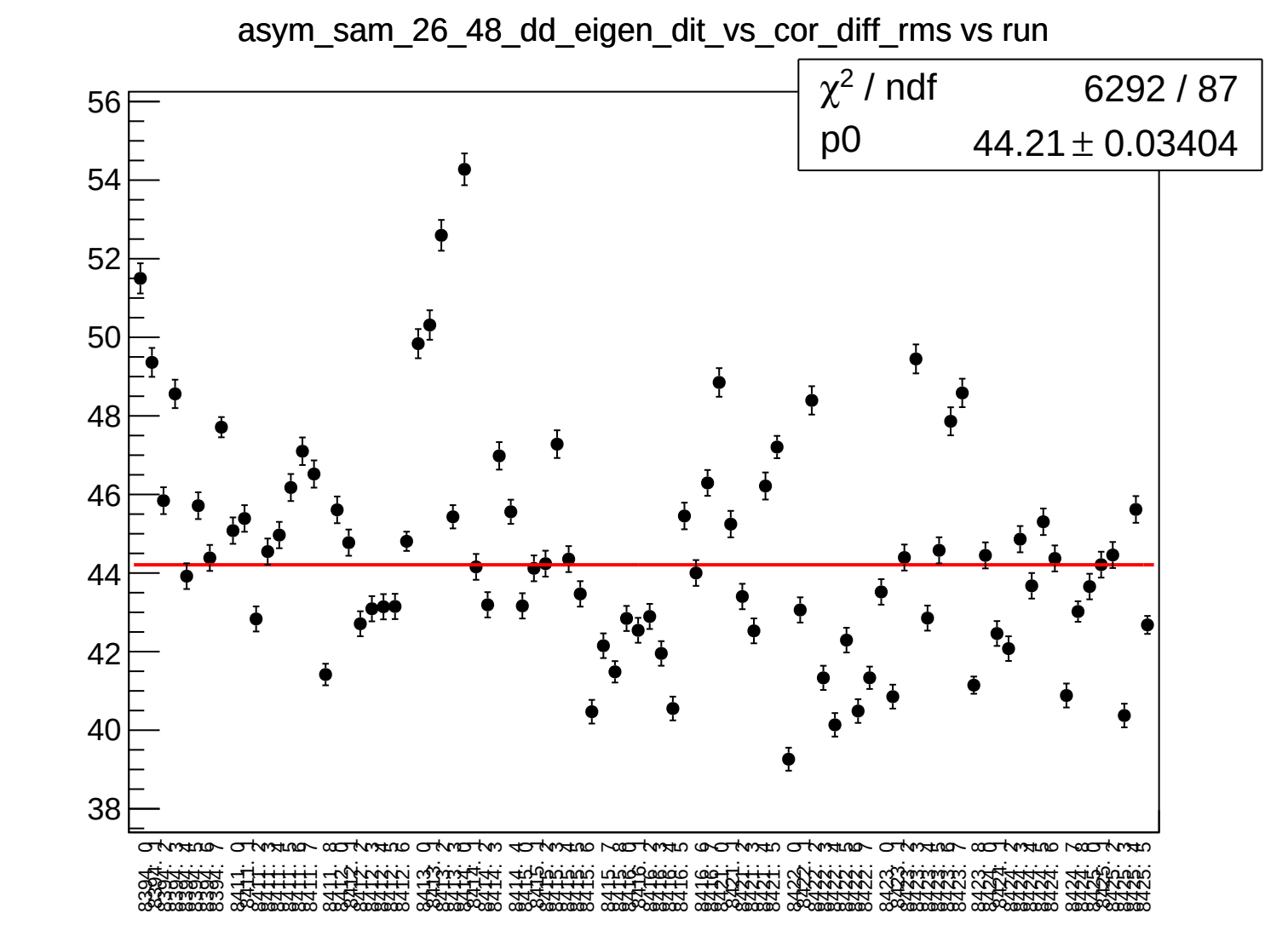

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.38 / 87
p0 0.3141± 0.04814
pull
Entries 88
Mean 23.42
Std Dev 64.66
pull1D
Entries 88
Mean −0.01141
Std Dev 0.9557

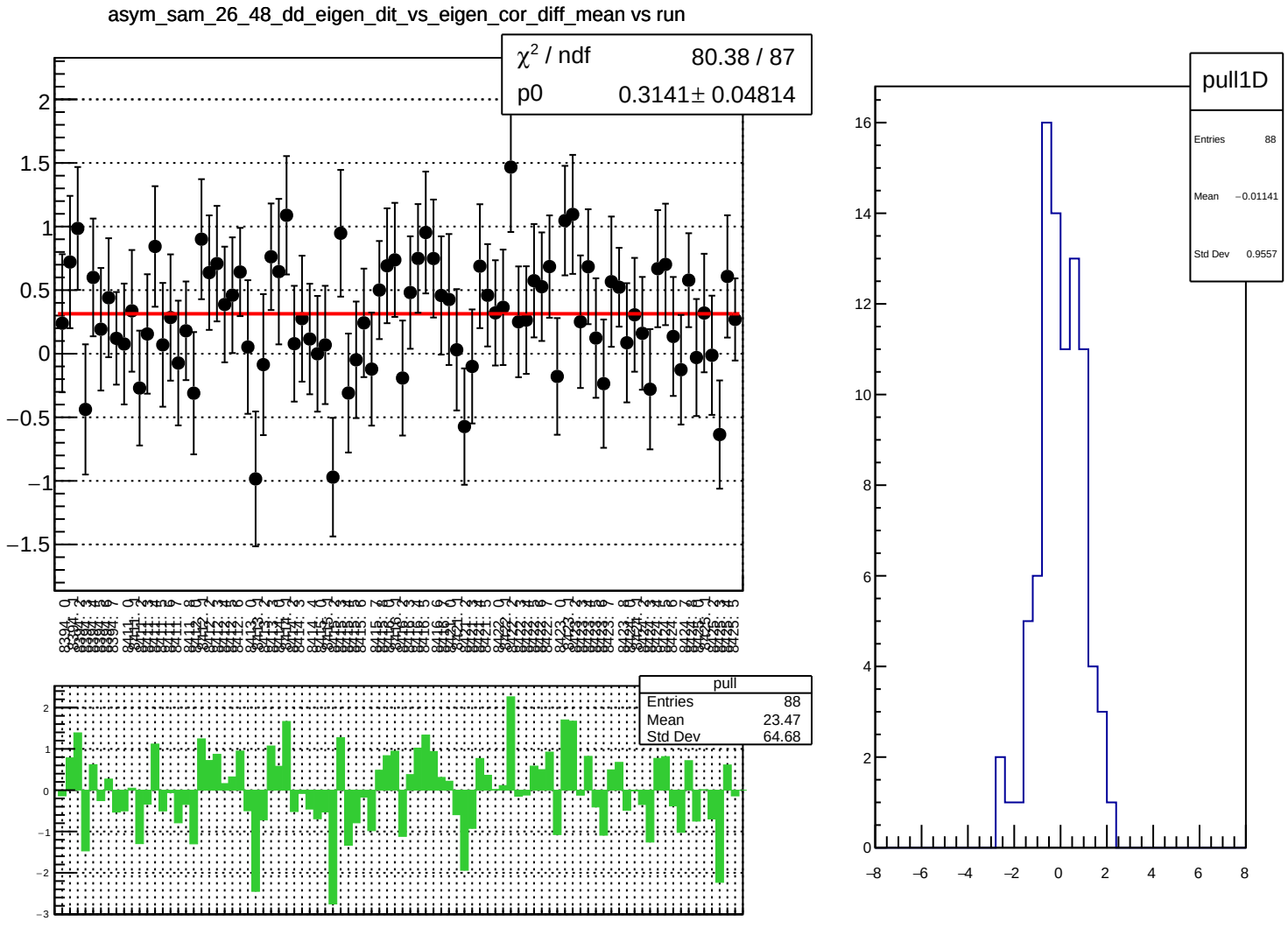

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6292 / 87
p0 44.21 ± 0.03404
56
54
52
50
48
46
44
42
40
38

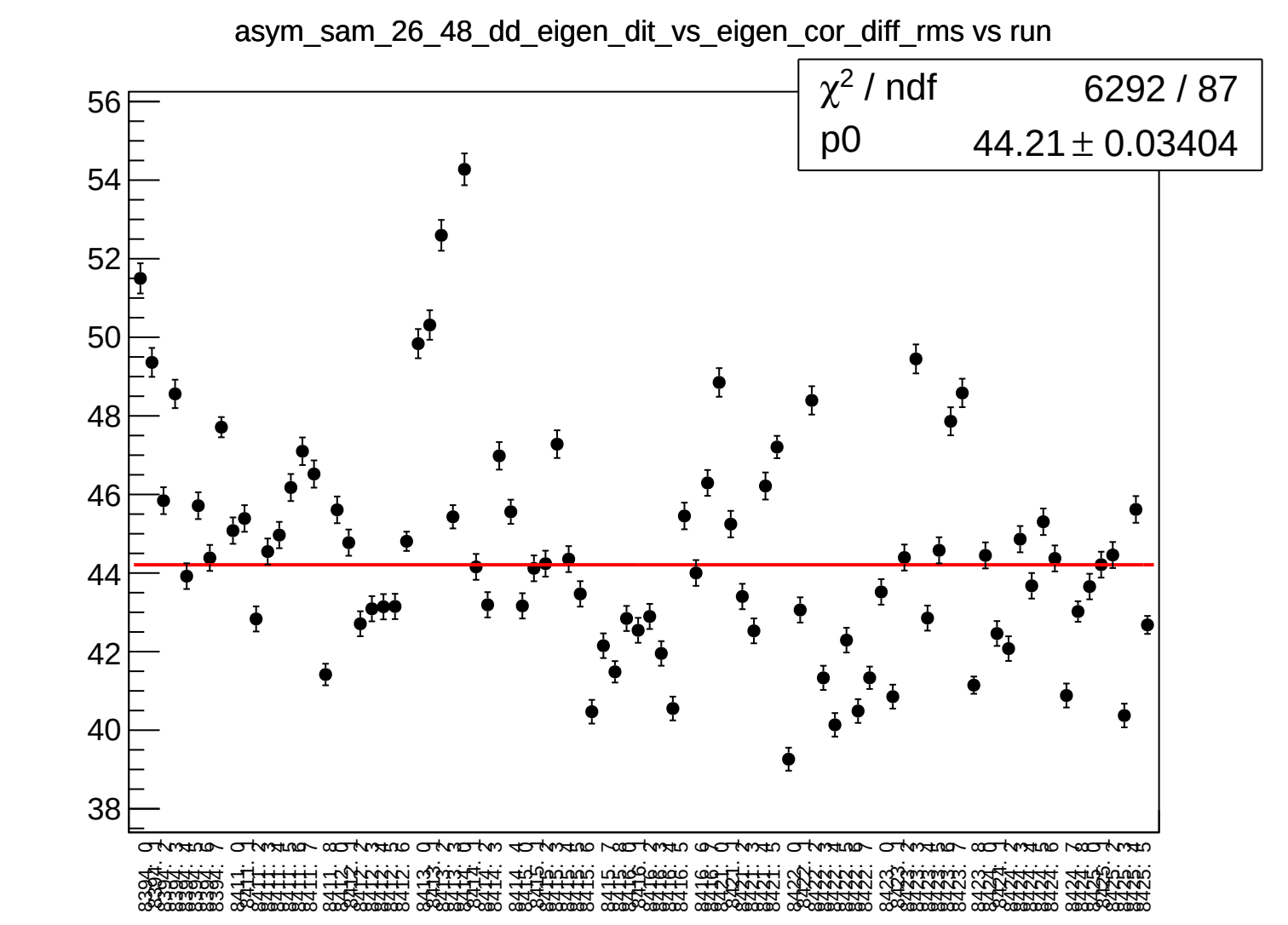

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96 / 87
p0 −1.157e−05 ± 3.162e−06
pull
Entries 88
Mean 194.1
Std Dev 0
pull1D
Entries 88
Mean −0.05192
Std Dev 1.043

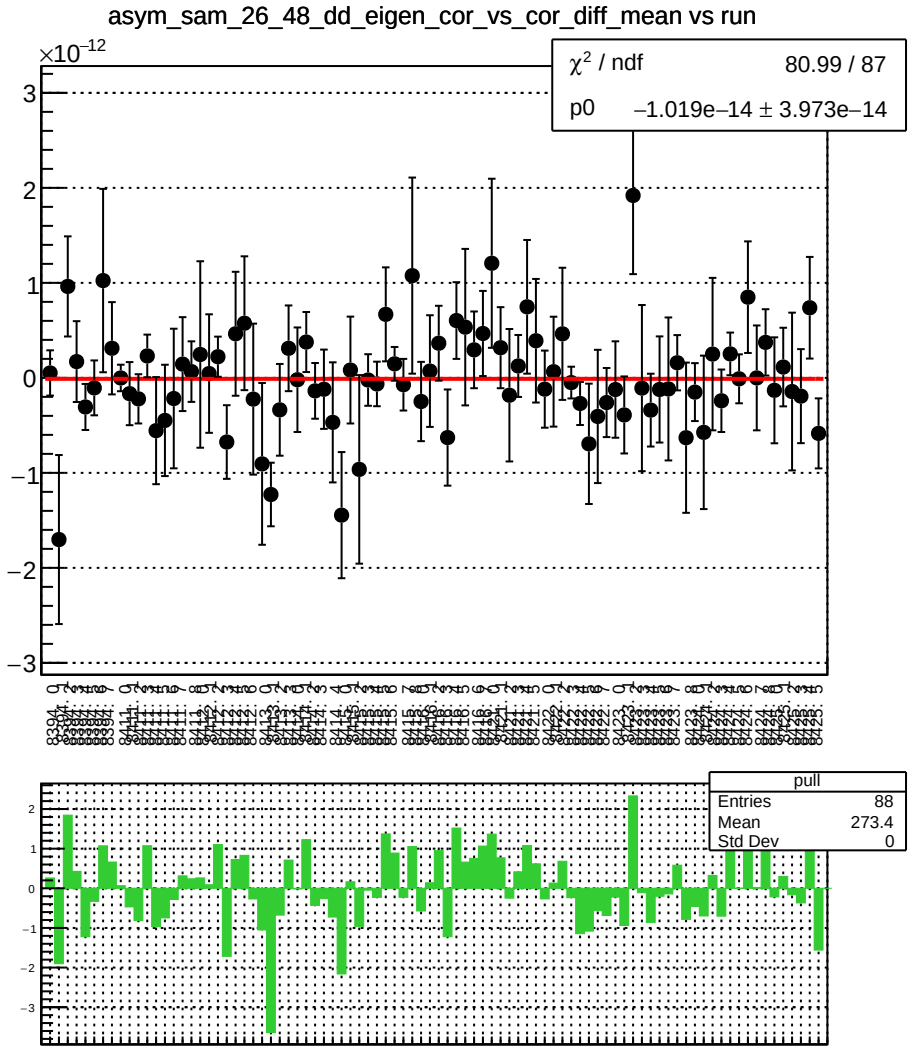

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.68e+04 / 87
p0 0.00286 ± 2.236e−06
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

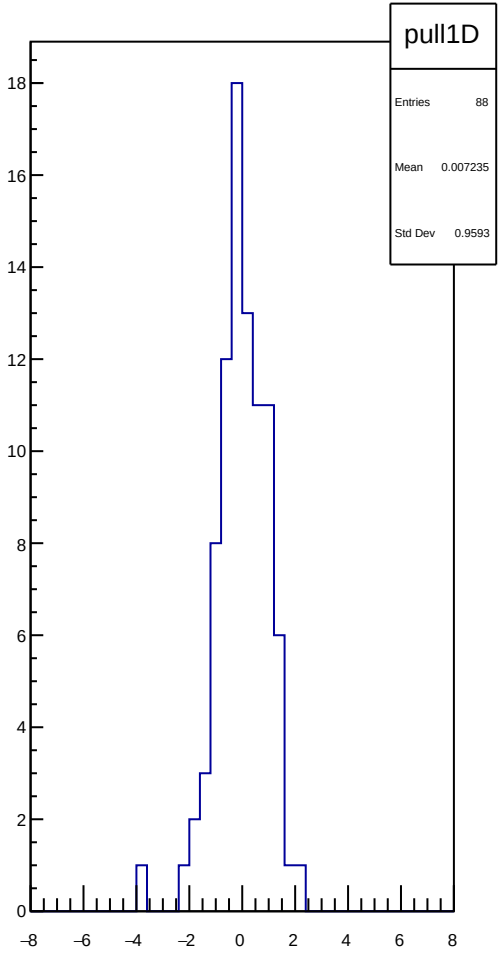

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.38 / 87
p0 0.3141± 0.04814
pull
Entries 88
Mean 23.47
Std Dev 64.68
pull1D
Entries 88
Mean −0.01141
Std Dev 0.9557

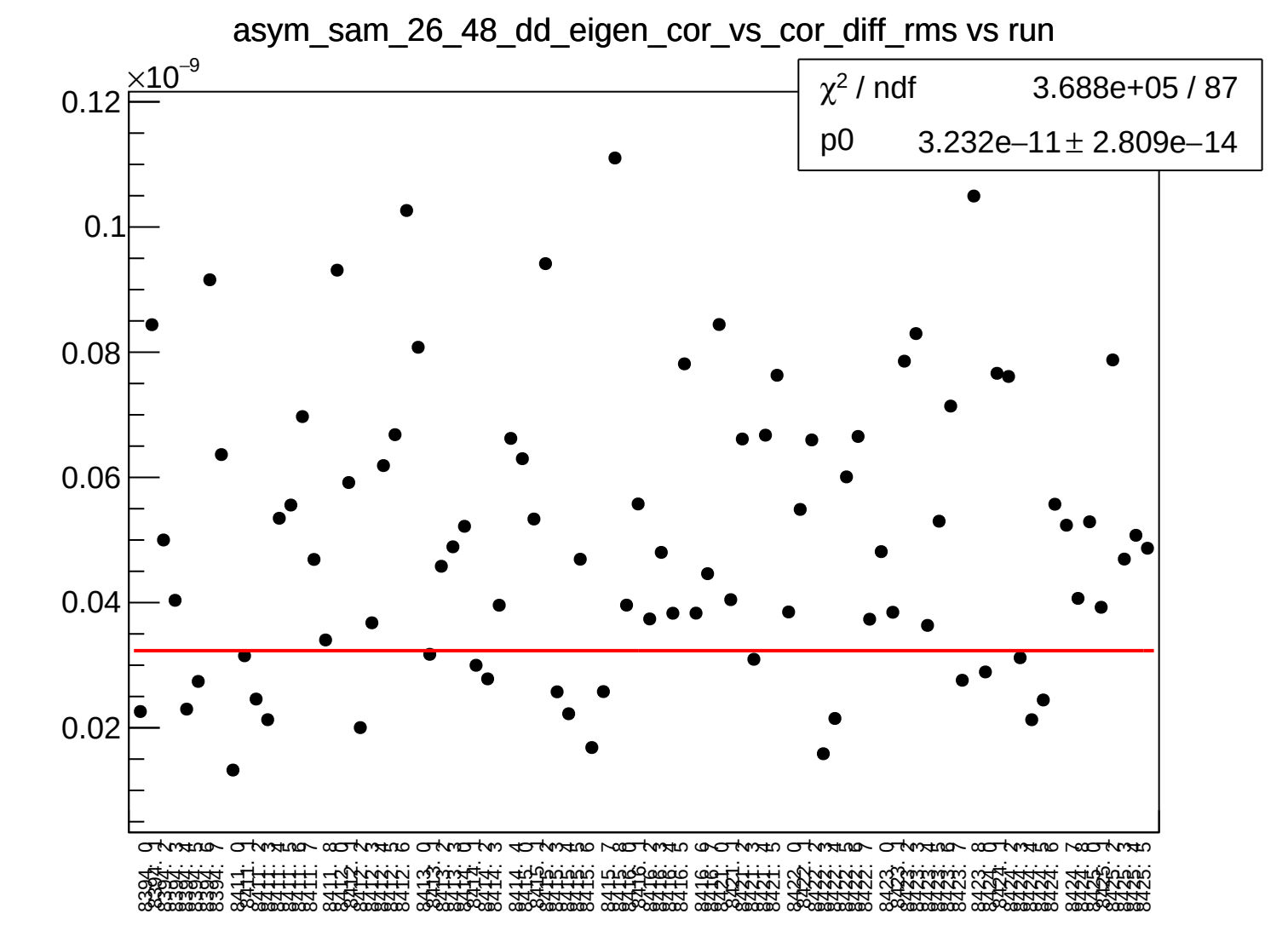

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6292 / 87
p0 44.21 ± 0.03404
56
54
52
50
48
46
44
42
40
38

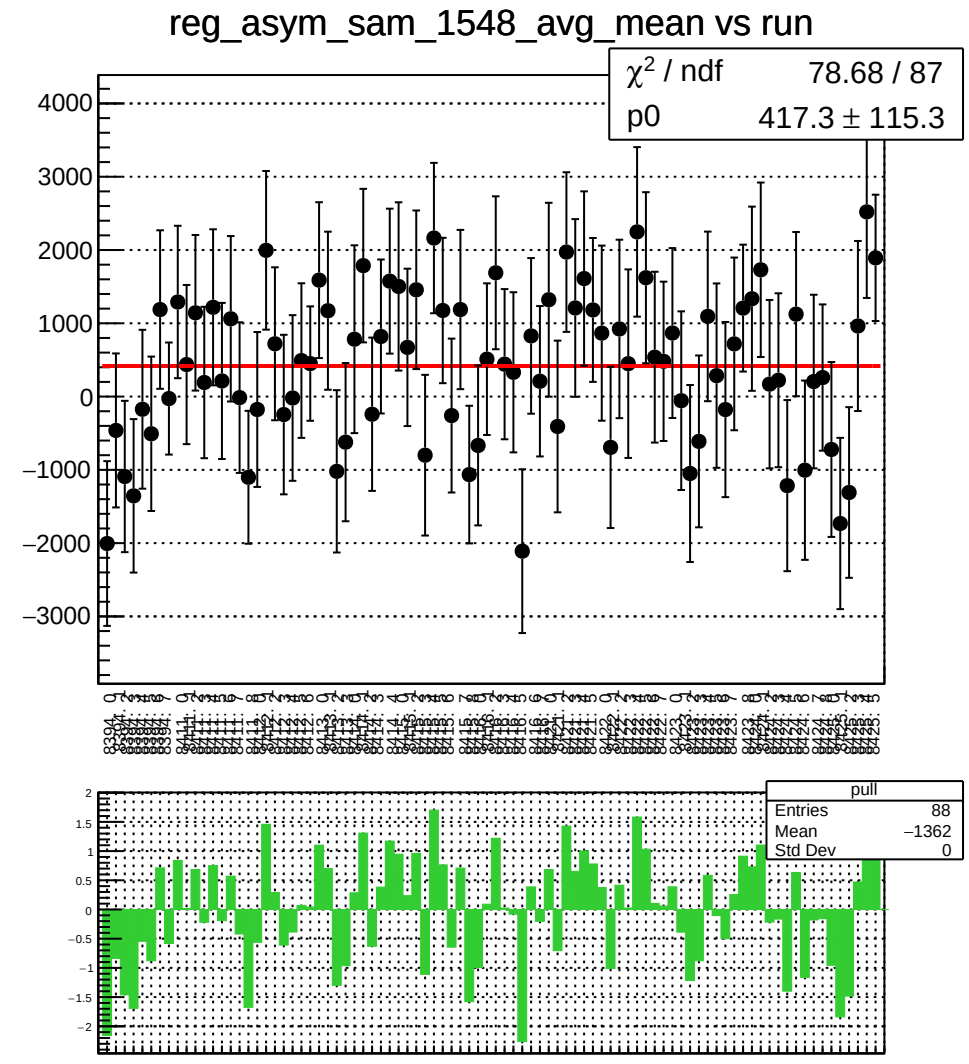

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.38 / 87
p0 0.3141± 0.04814
pull
Entries 88
Mean 23.47
Std Dev 64.68
pull1D
Entries 88
Mean −0.01141
Std Dev 0.9557

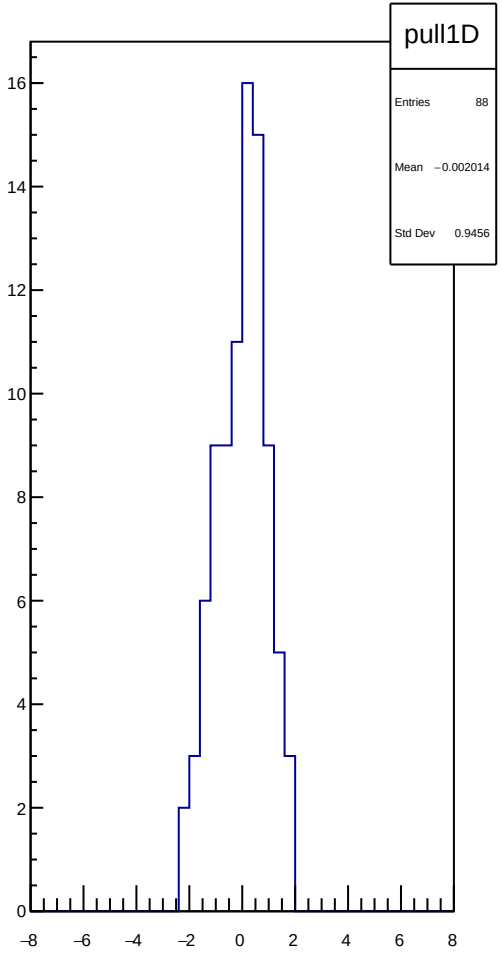

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6292 / 87
p0 44.21 ± 0.03404
56
54
52
50
48
46
44
42
40
38

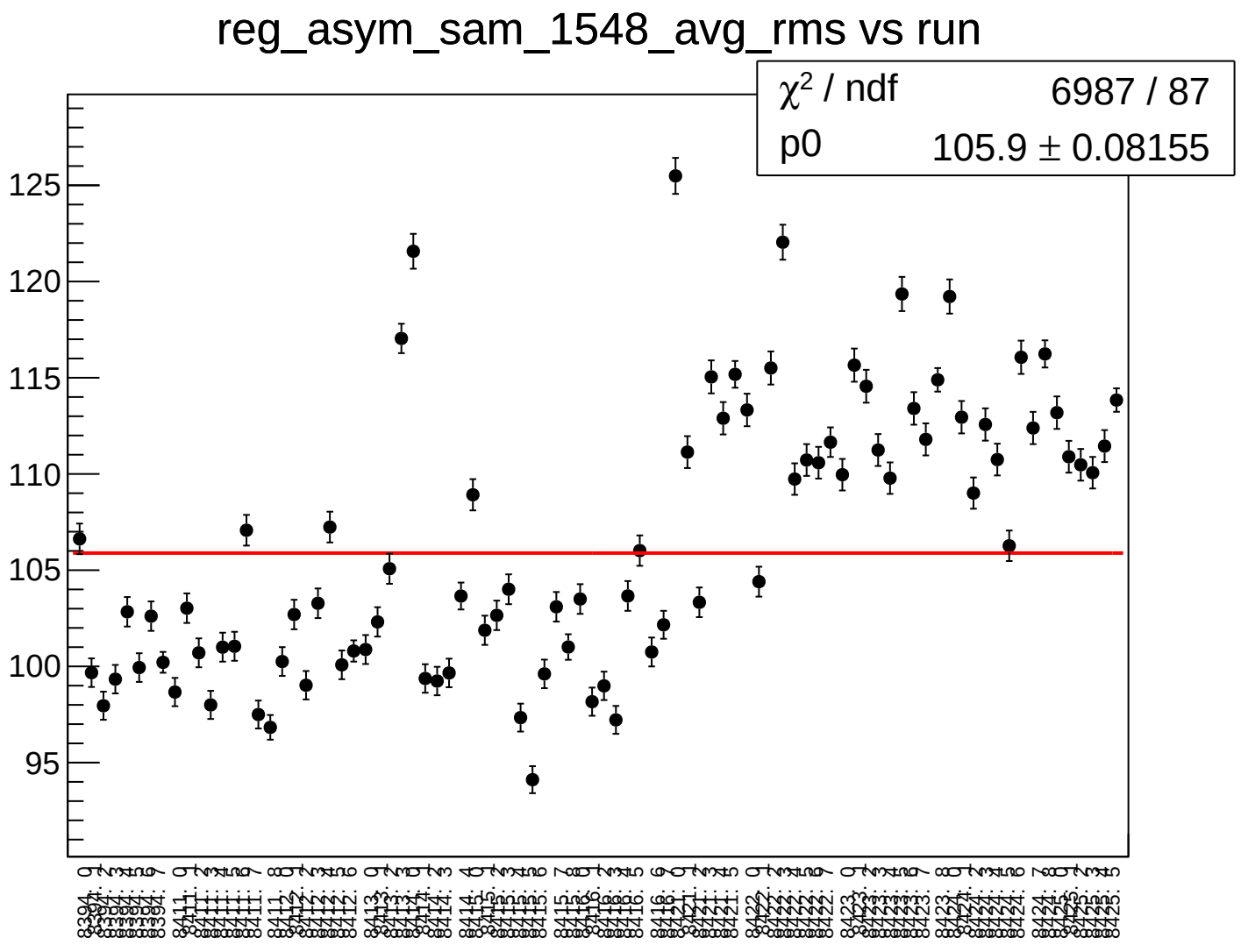

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.99 / 87
p0 −1.019e−14 ± 3.973e−14
pull
Entries 88
Mean 273.4
Std Dev 0

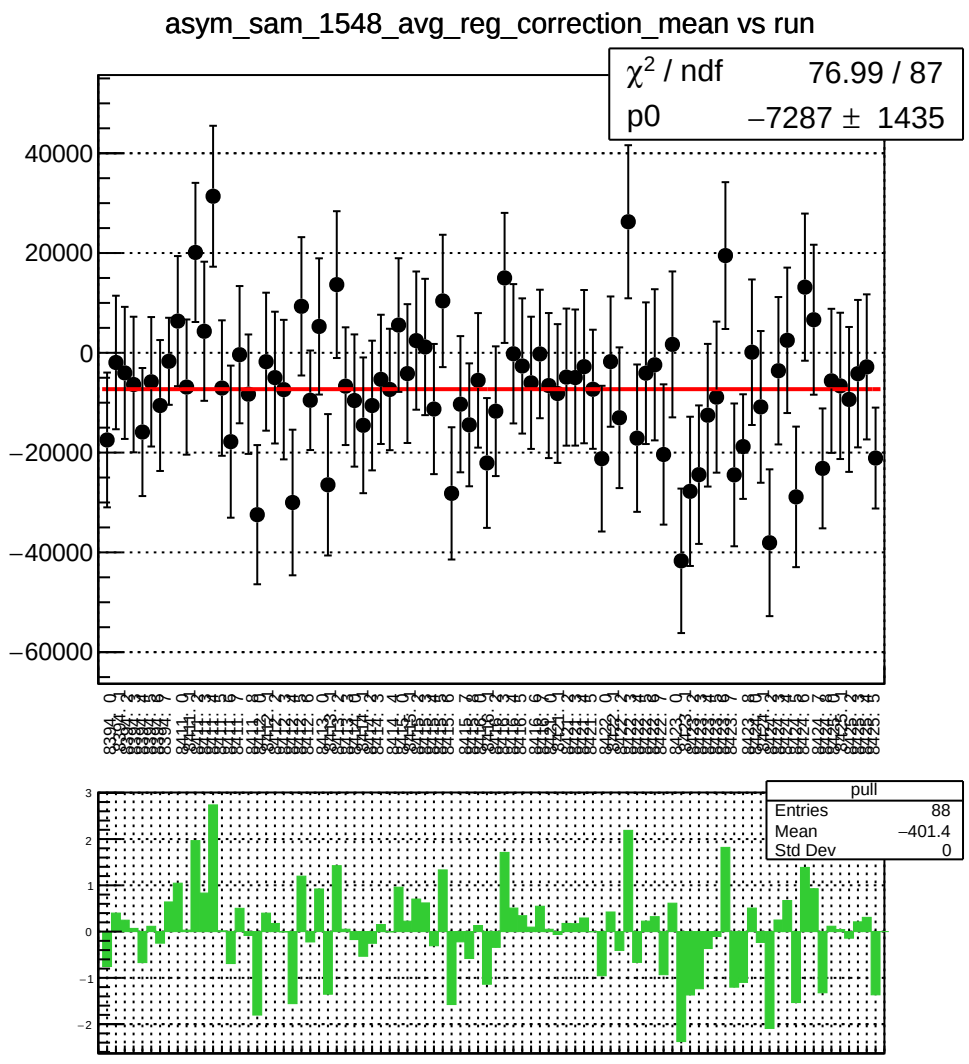

pull1D
Entries 88
Mean 0.007235
Std Dev 0.9593

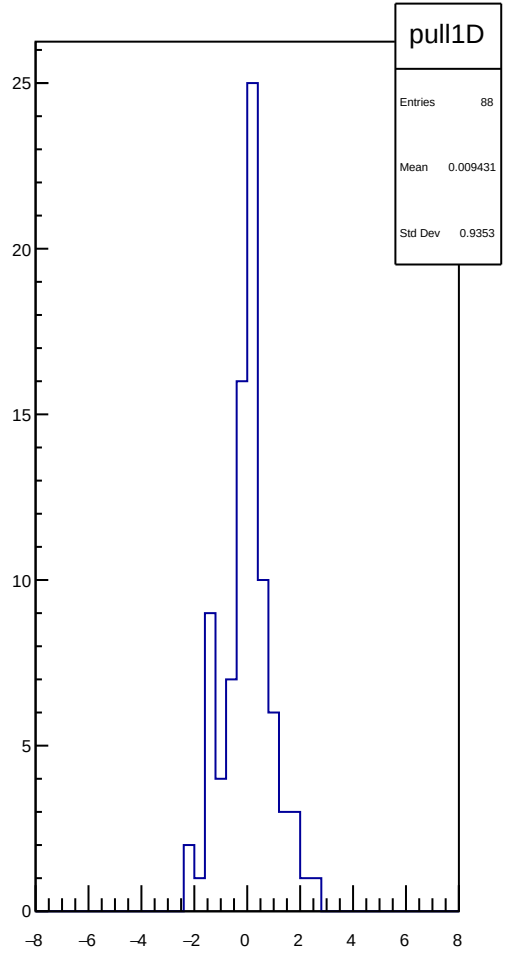

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 3.688e+05 / 87
p0 3.232e−11 ± 2.809e−14

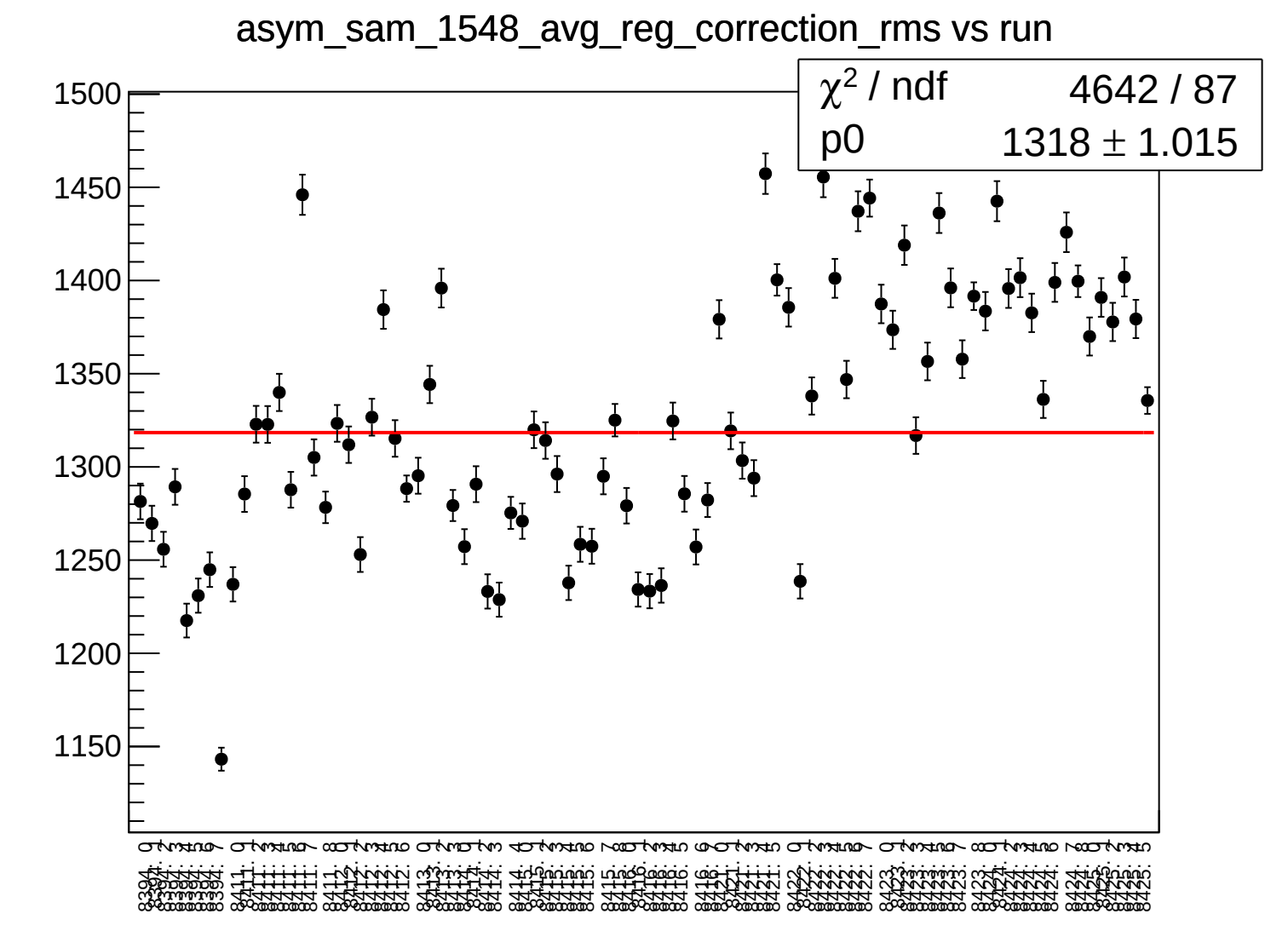

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 78.68 / 87
p0 417.3 ± 115.3
pull
Entries 88
Mean −1362
Std Dev 0

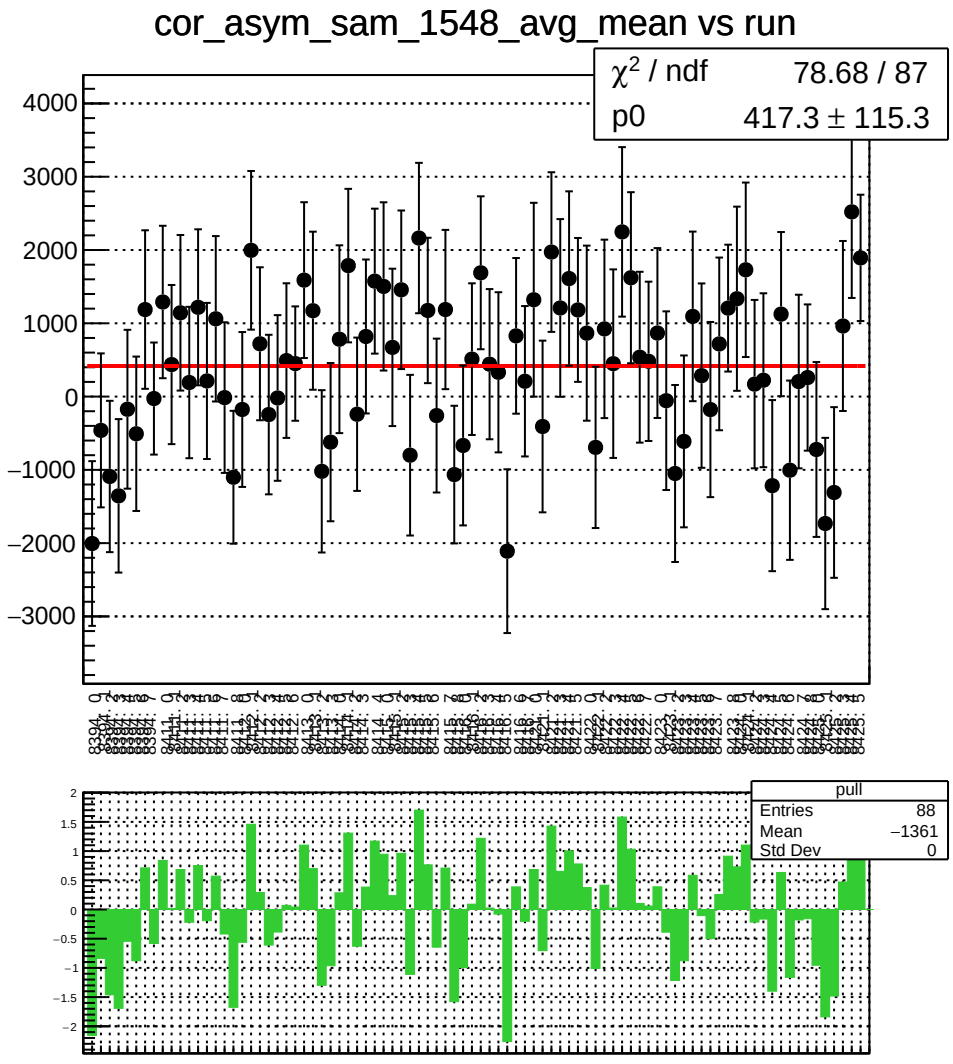

pull1D
Entries 88
Mean −0.002014
Std Dev 0.9456

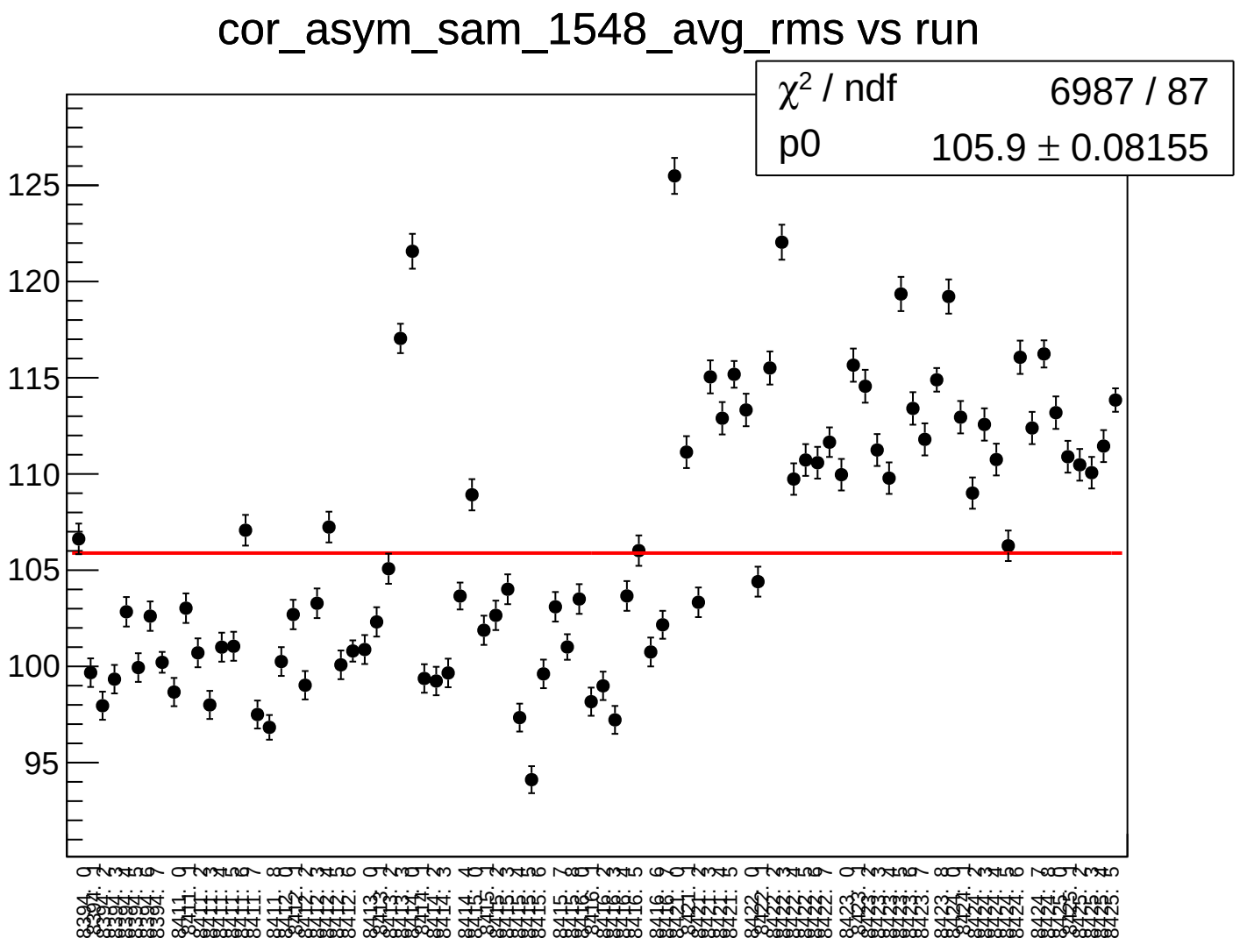

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 6987 / 87
p0 105.9 ± 0.08155
125
120
115
110
105
100
95

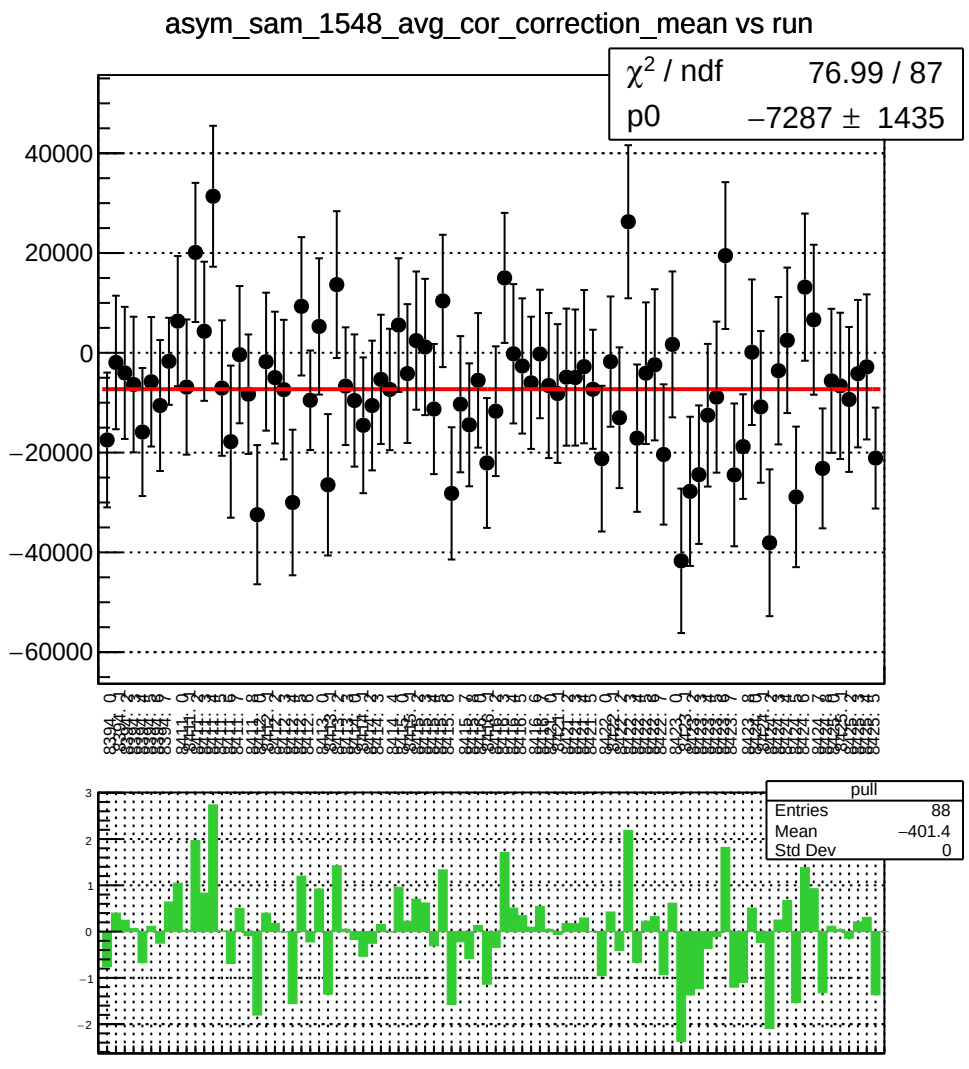

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 76.99 / 87
p0 −7287 ± 1435
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −401.4
Std Dev 0
3
2
1
0
−1
−2

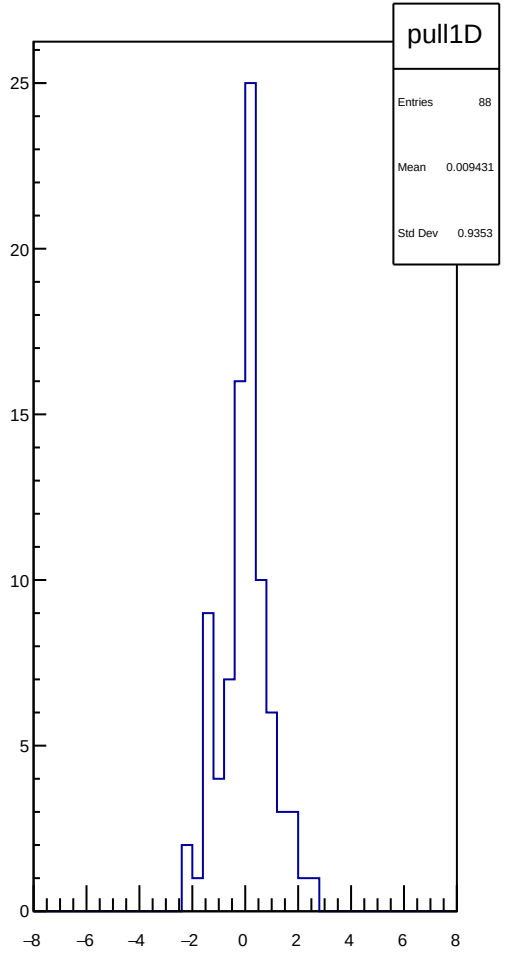

pull1D
Entries 88
Mean 0.009431
Std Dev 0.9353
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

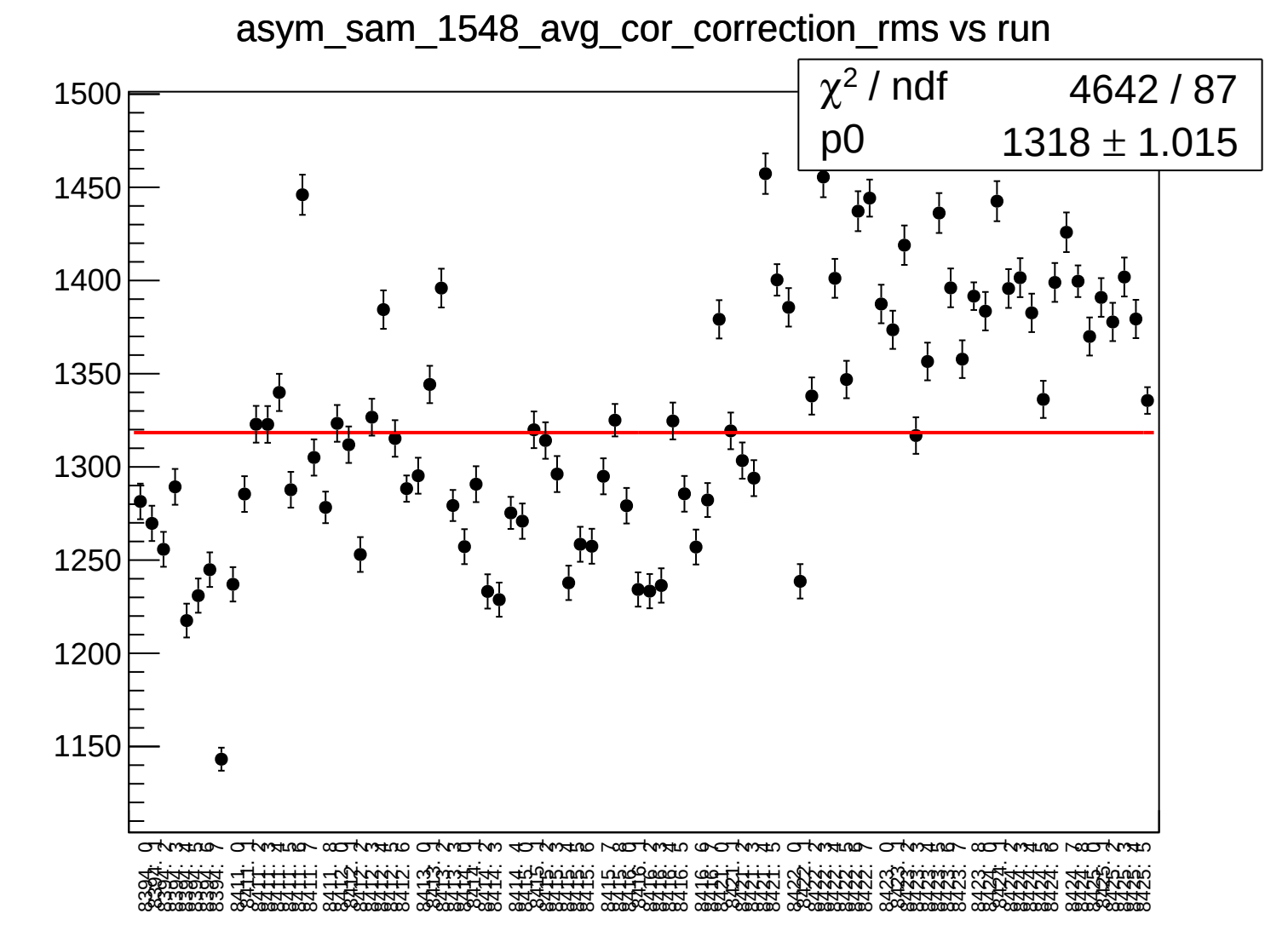

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 4642 / 87
p0 1318 ± 1.015
1500
1450
1400
1350
1300
1250
1200
1150

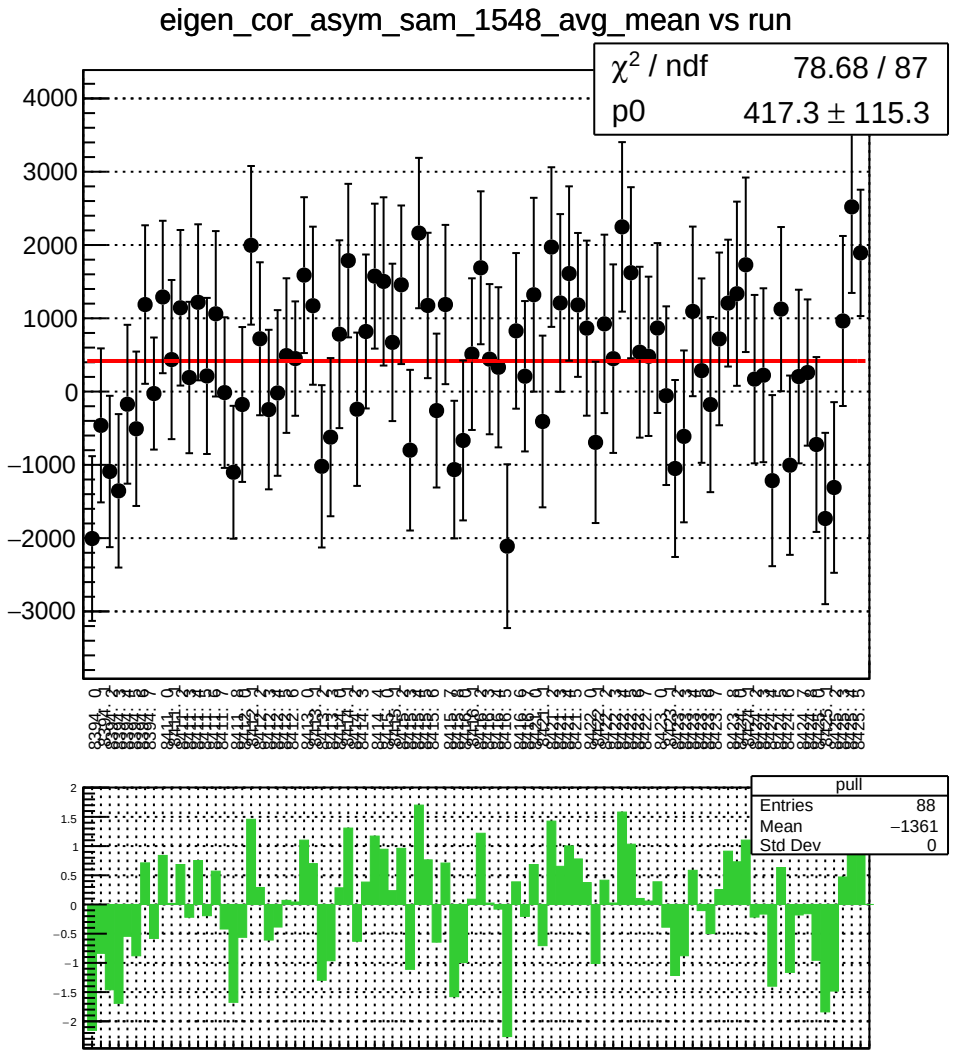

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 78.68 / 87
p0 417.3 ± 115.3
pull
Entries 88
Mean −1361
Std Dev 0
pull1D
Entries 88
Mean −0.002015
Std Dev 0.9456

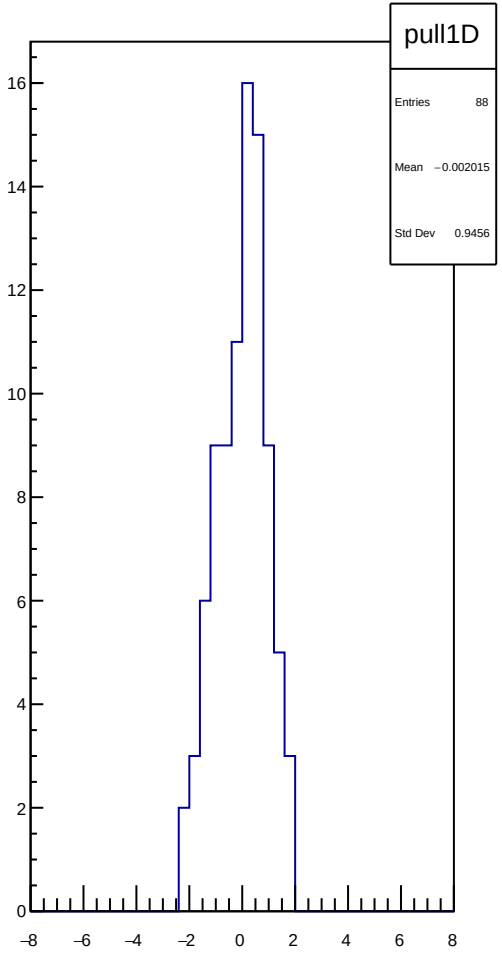

cor_asym_sam_1548_avg_rms vs run
χ² / ndf 6987 / 87
p0 105.9 ± 0.08155
125
120
115
110
105
100
95

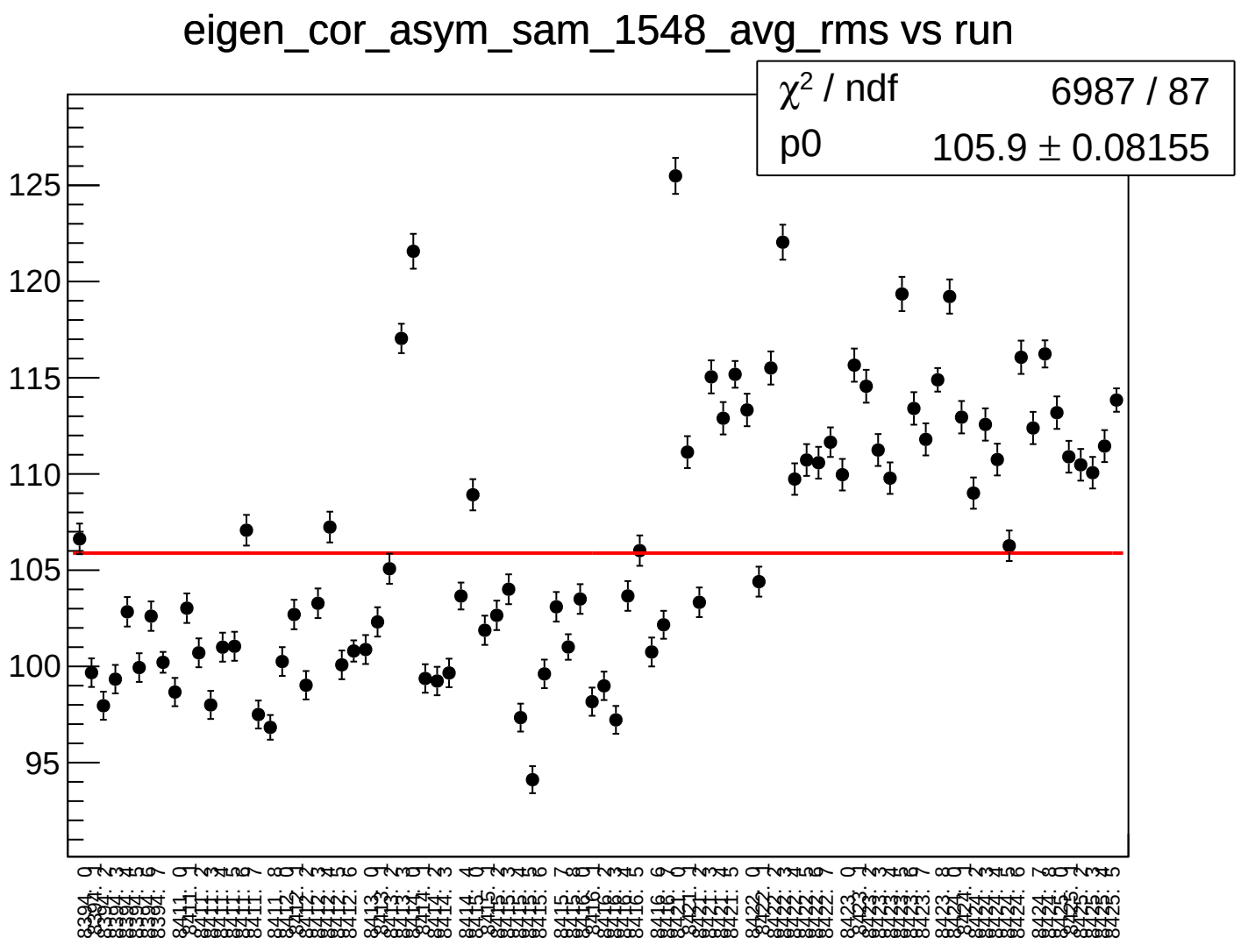

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 76.99 / 87
p0 −7287 ± 1435
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −401.4
Std Dev 0
3
2
1
0
−1
−2

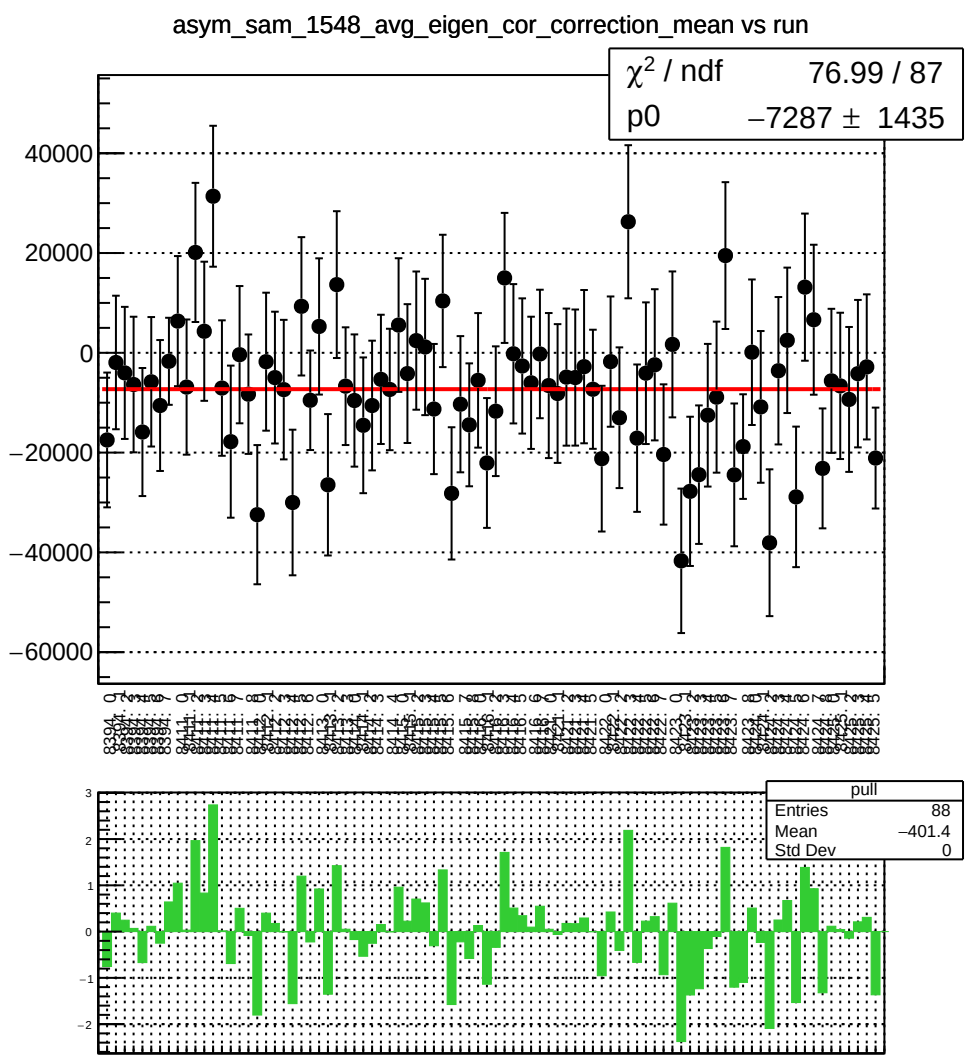

pull1D
Entries 88
Mean 0.009431
Std Dev 0.9353
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

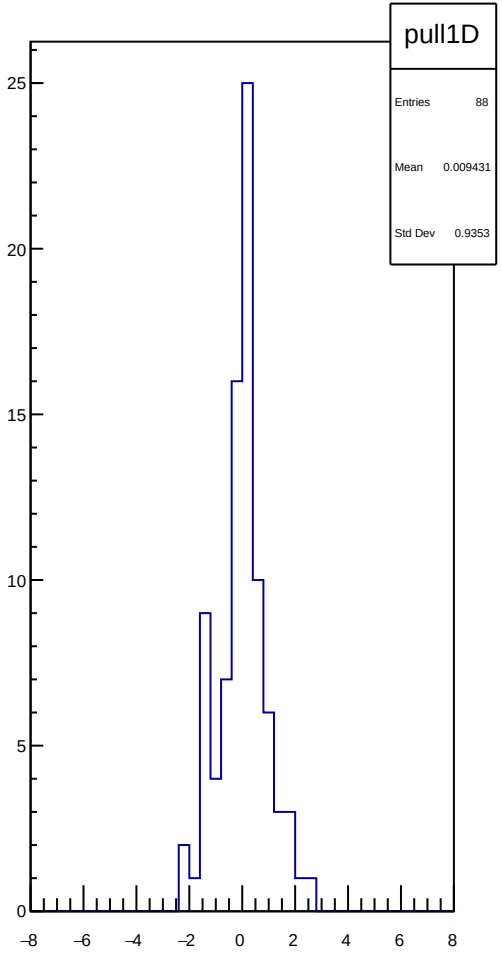

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 4642 / 87
p0 1318 ± 1.015
1500
1450
1400
1350
1300
1250
1200
1150

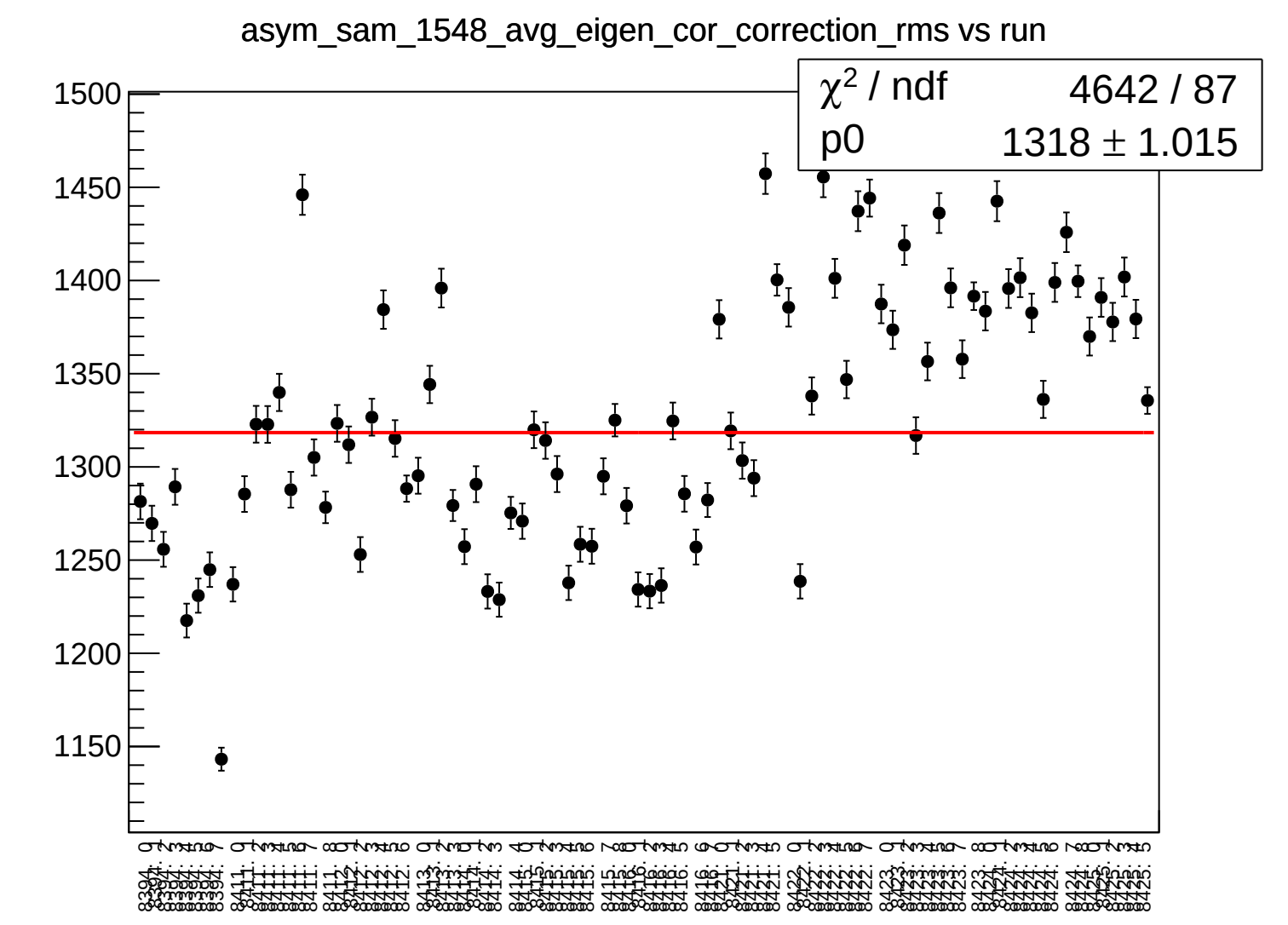

eigen_cor_asym_sam_1548_avg_mean vs run
χ^2 / ndf 78.68 / 87
p0 417.3 ± 115.3
pull
Entries 88
Mean −1361
Std Dev 0

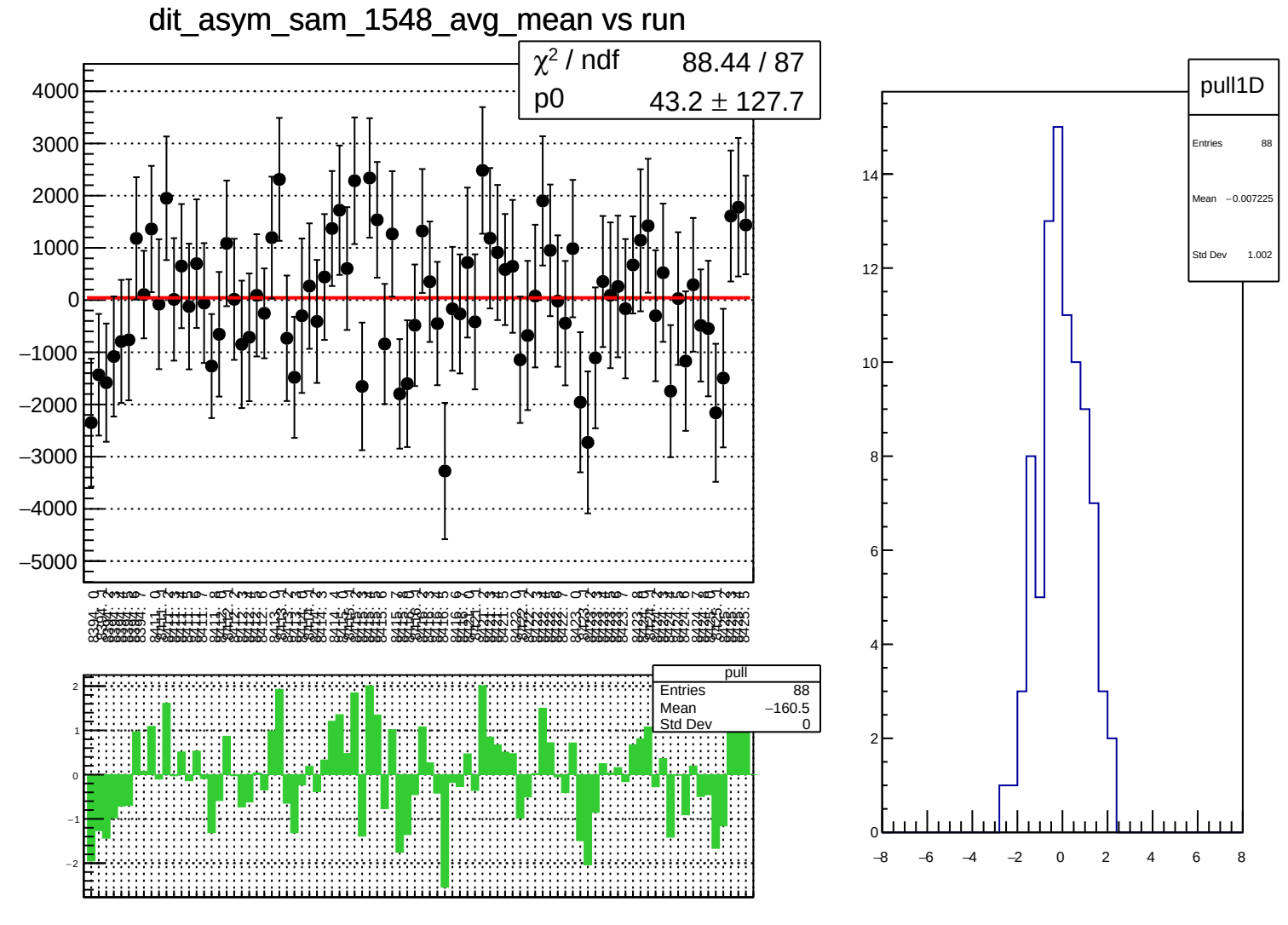

pull1D
Entries 88
Mean −0.002015
Std Dev 0.9456

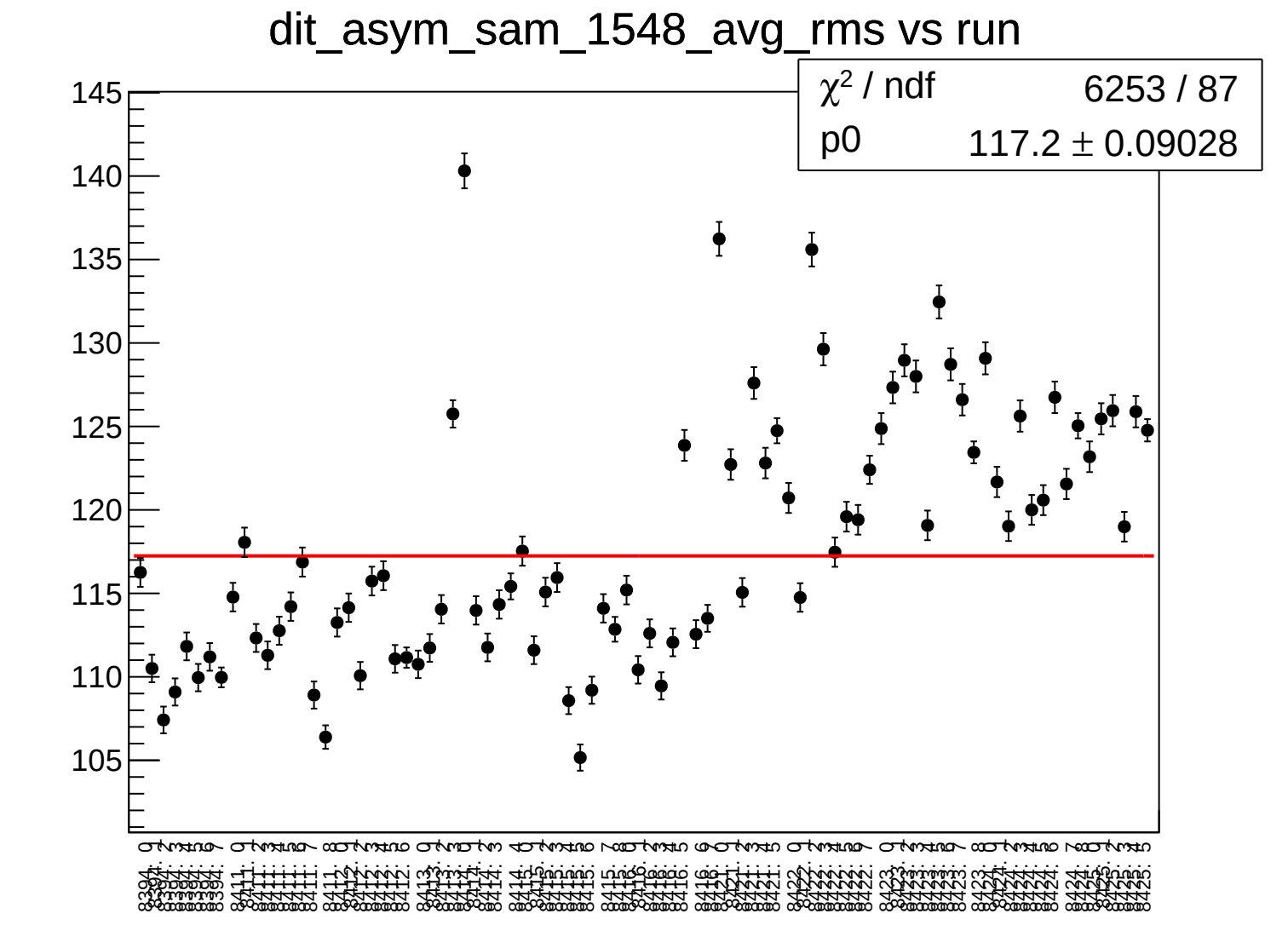

eigen_cor_asym_sam_1548_avg_rms vs run
χ^2 / ndf 6987 / 87
p0 105.9 ± 0.08155
125
120
115
110
105
100
95

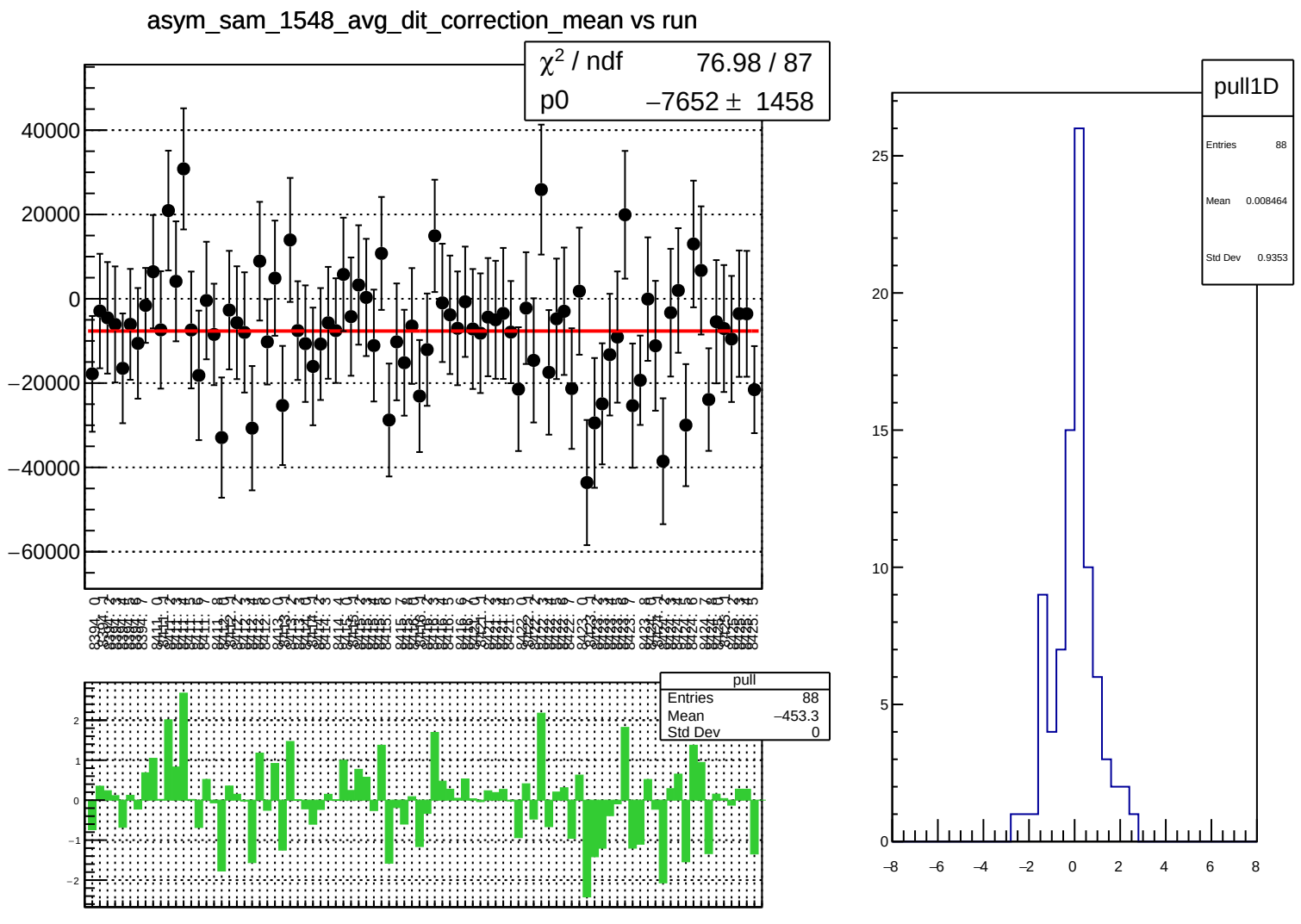

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 76.99 / 87
p0 −7287 ± 1435
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −401.4
Std Dev 0
3
2
1
0
−1
−2

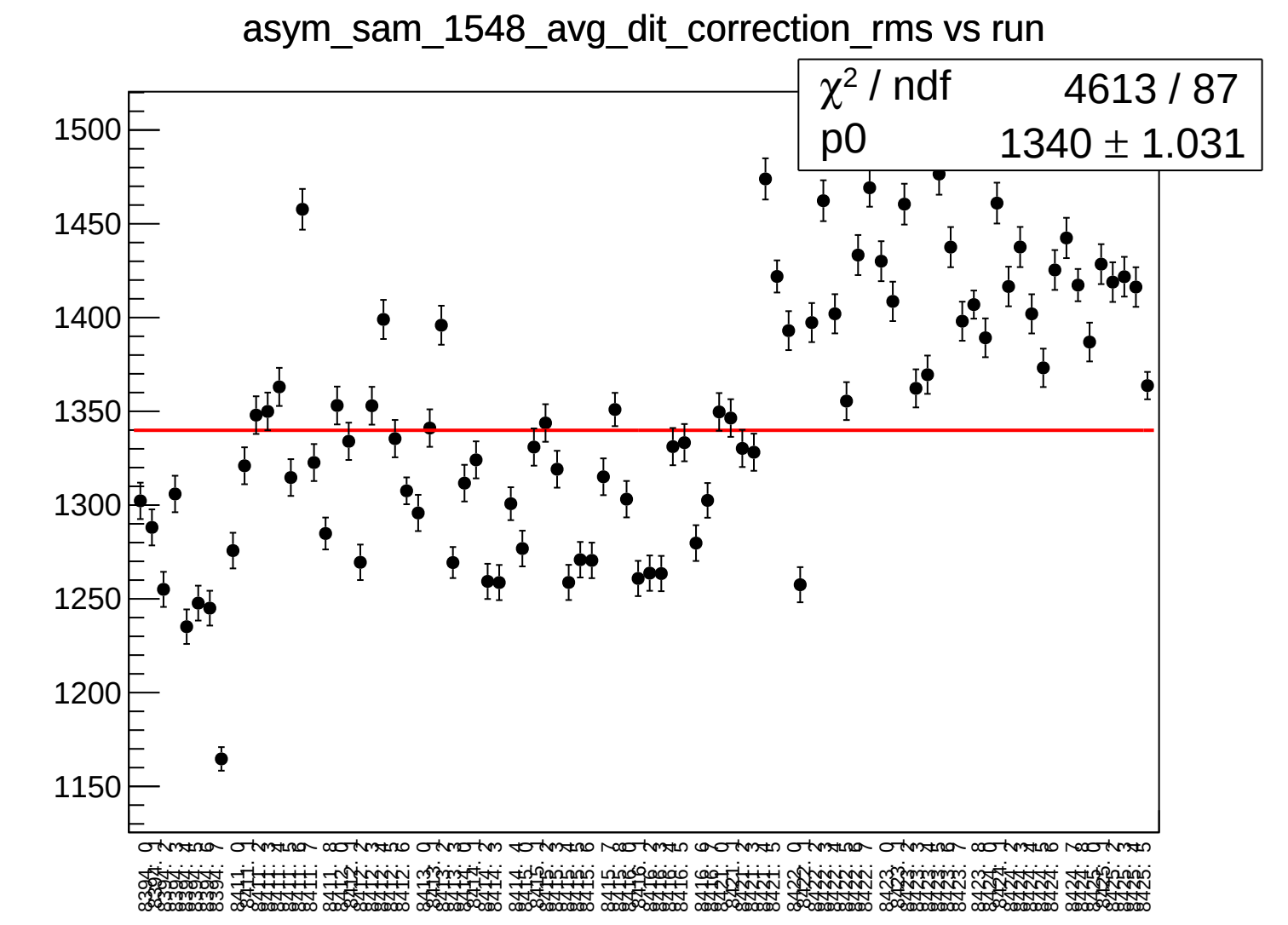

pull1D
Entries 88
Mean 0.009431
Std Dev 0.9353
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

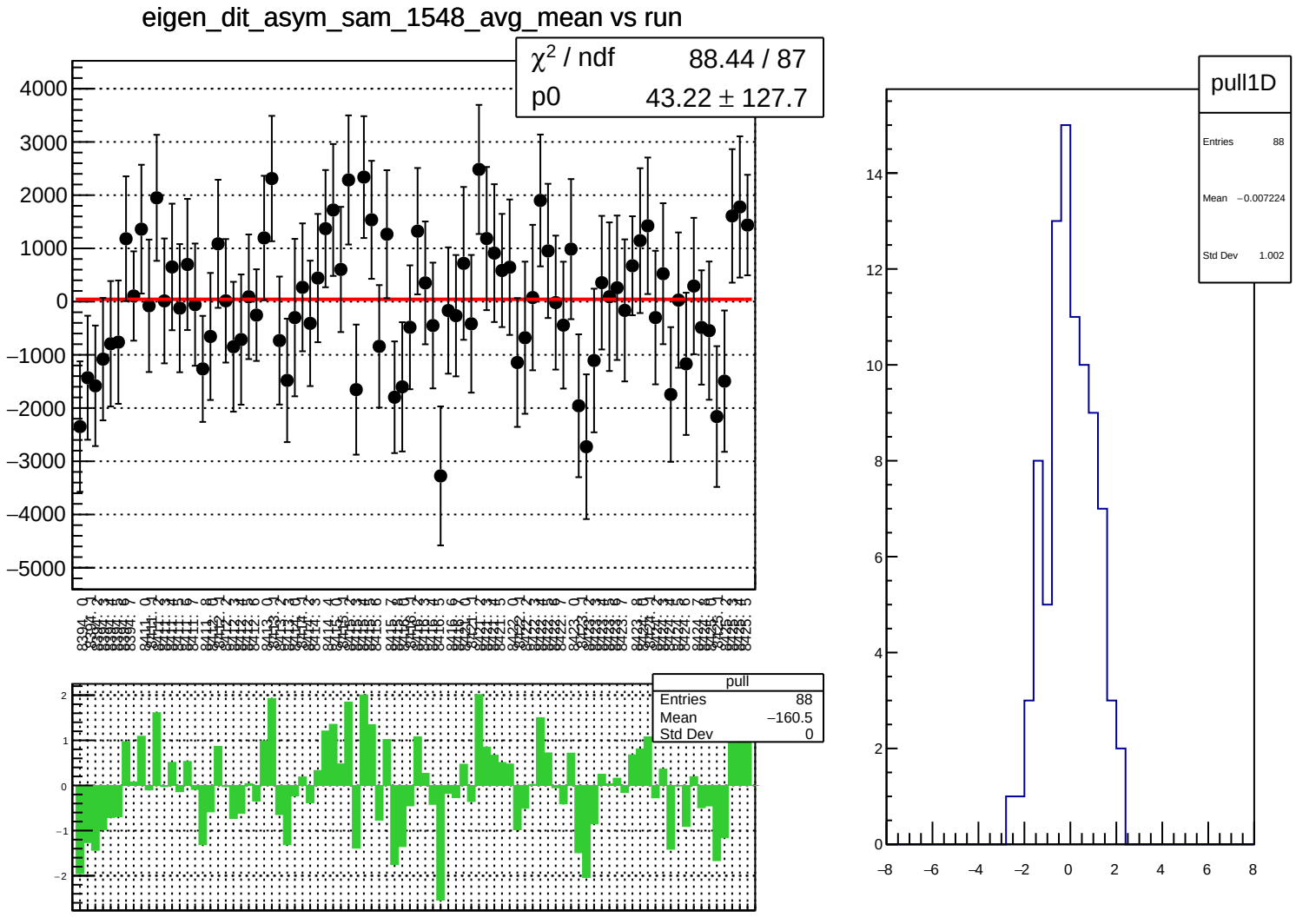

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 4642 / 87
p0 1318 ± 1.015
1500
1450
1400
1350
1300
1250
1200
1150

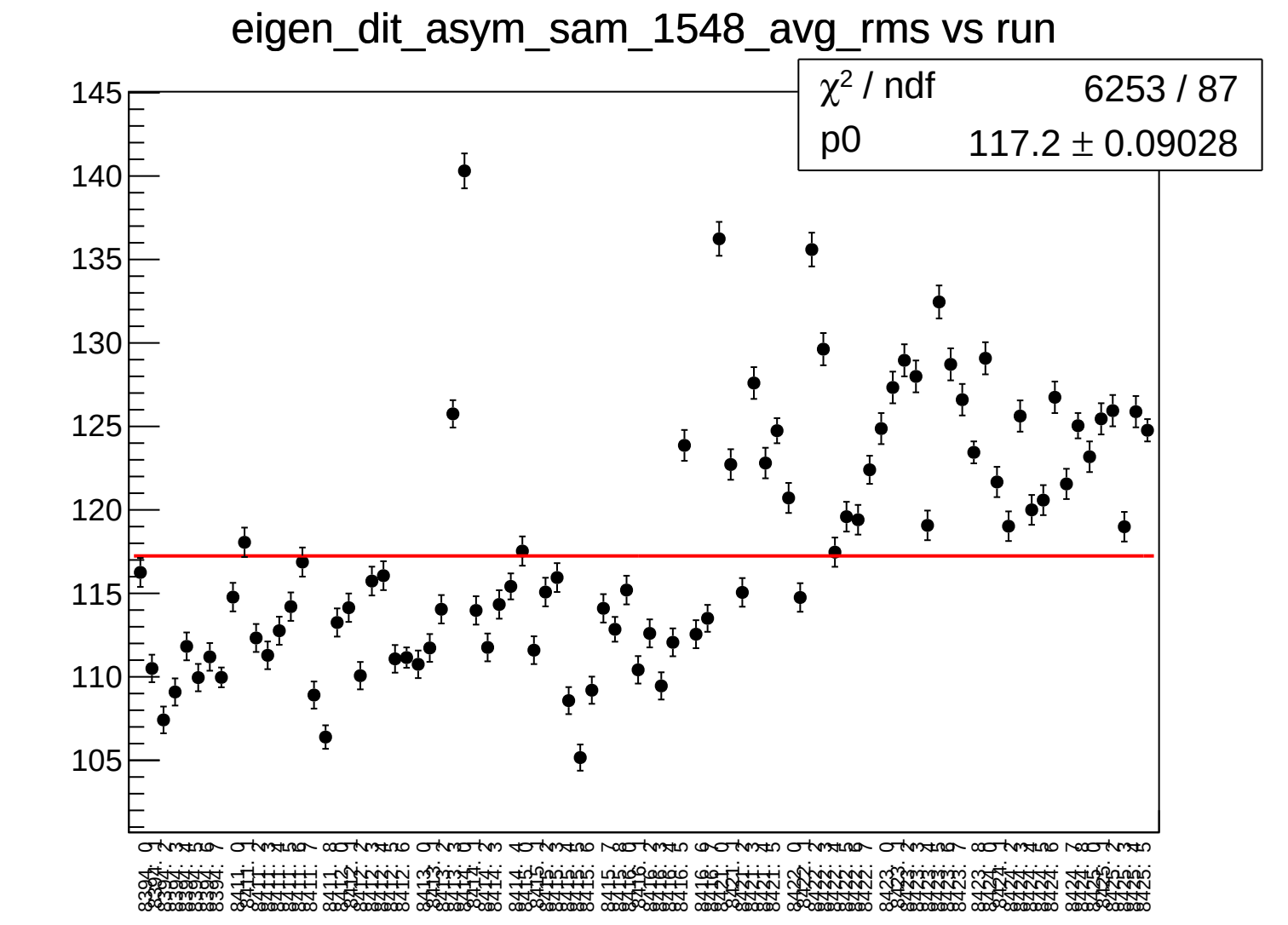

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 88.44 / 87
p0 43.2 ± 127.7
pull
Entries 88
Mean −160.5
Std Dev 0
pull1D
Entries 88
Mean −0.007225
Std Dev 1.002

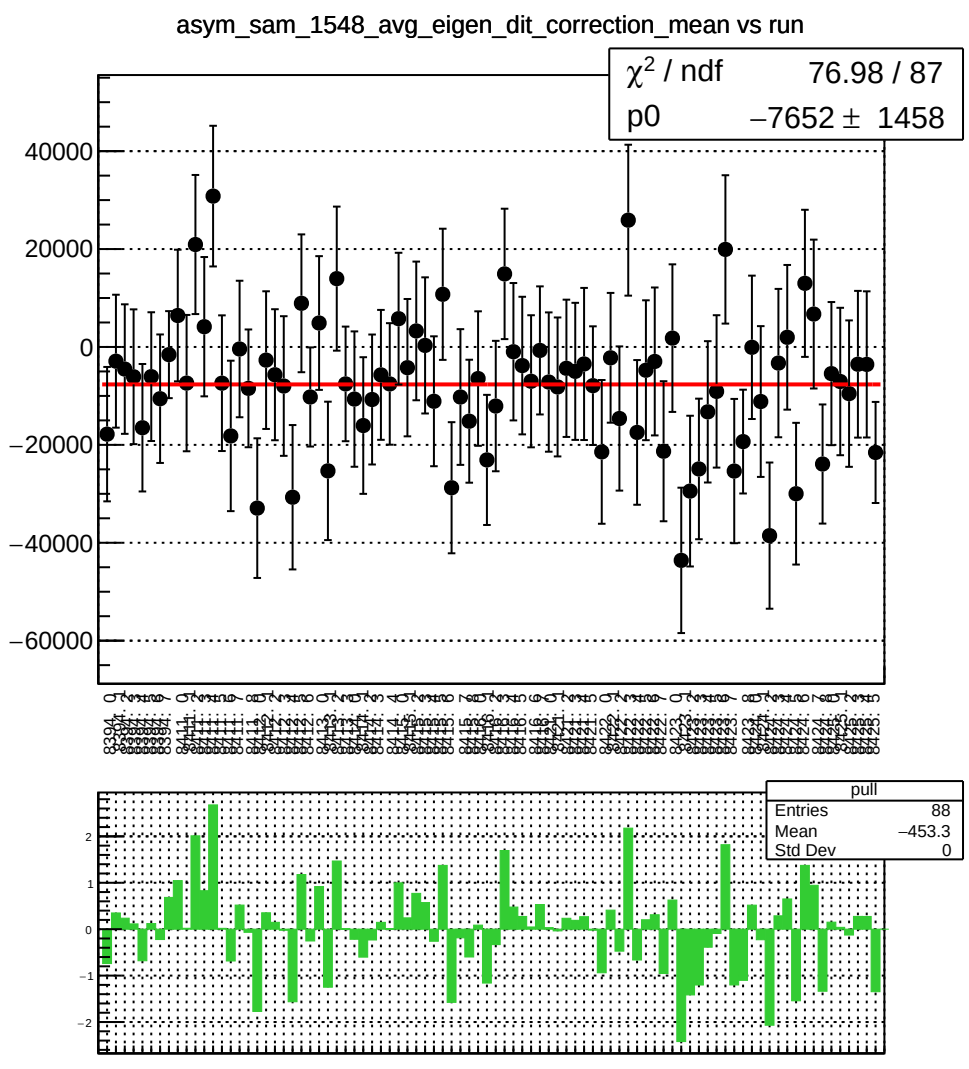

dit_asym_sam_1548_avg_rms vs run
χ^2 / ndf 6253 / 87
p0 117.2 ± 0.09028
145
140
135
130
125
120
115
110
105

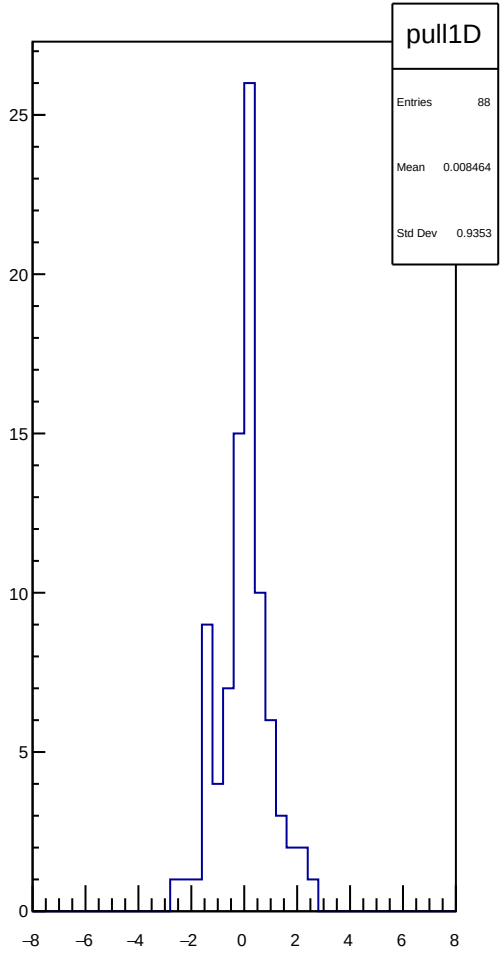

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 76.98 / 87
p0 −7652 ± 1458
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −453.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.008464
Std Dev 0.9353
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

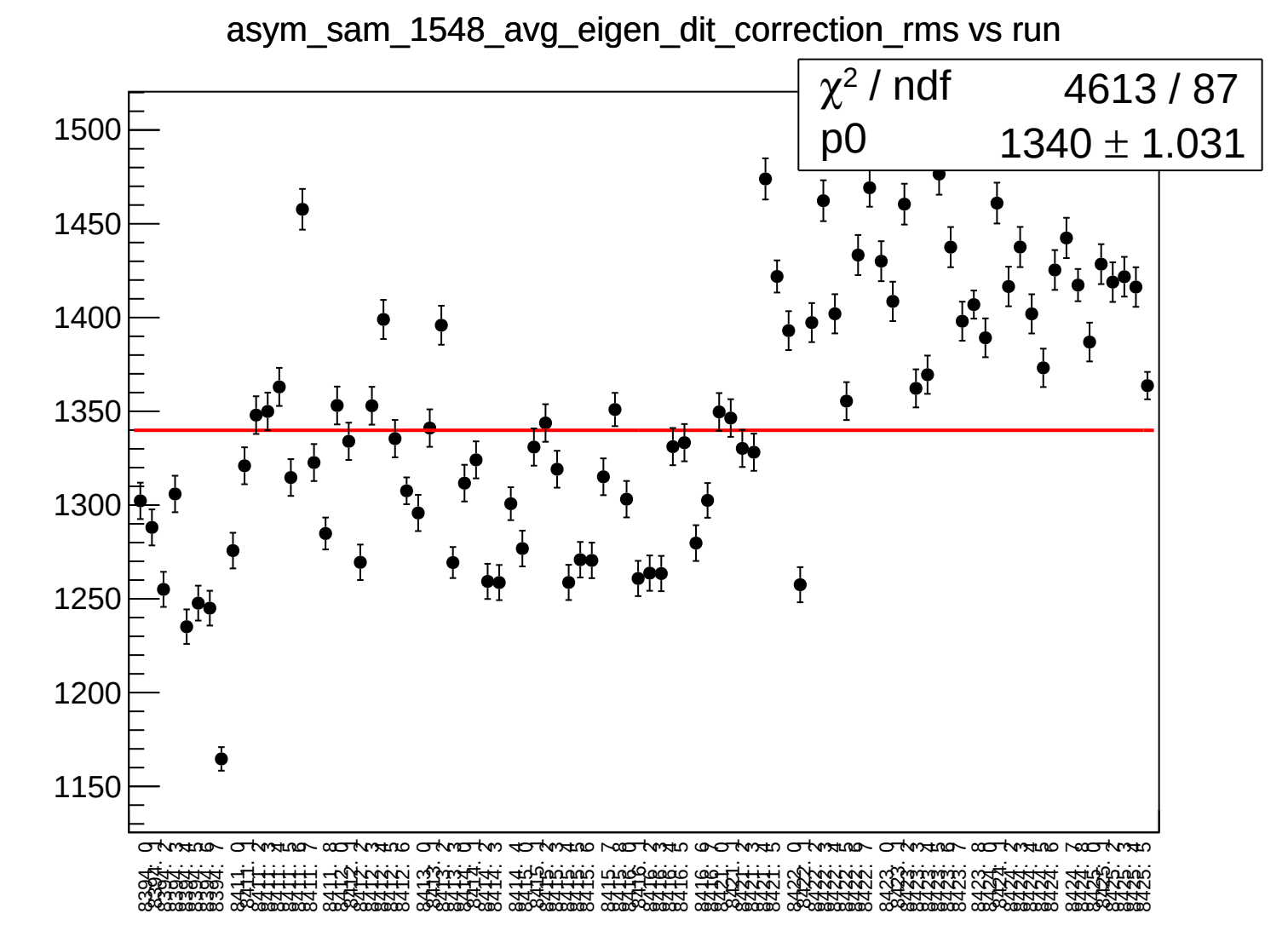

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 4613 / 87
p0 1340 ± 1.031
1500
1450
1400
1350
1300
1250
1200
1150

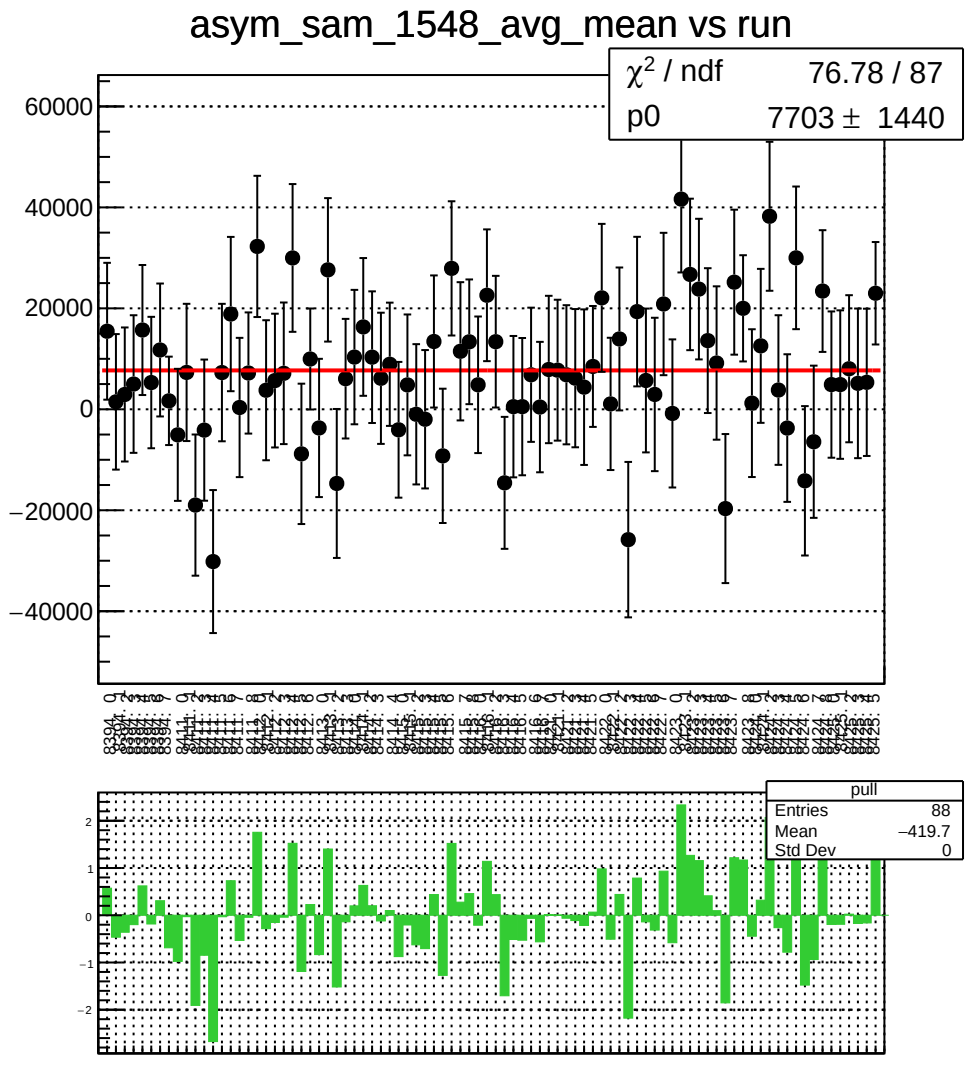

eigen_dit_asym_sam_1548_avg_mean vs run
χ^2 / ndf 88.44 / 87
p0 43.22 ± 127.7
pull
Entries 88
Mean −160.5
Std Dev 0
pull1D
Entries 88
Mean −0.007224
Std Dev 1.002

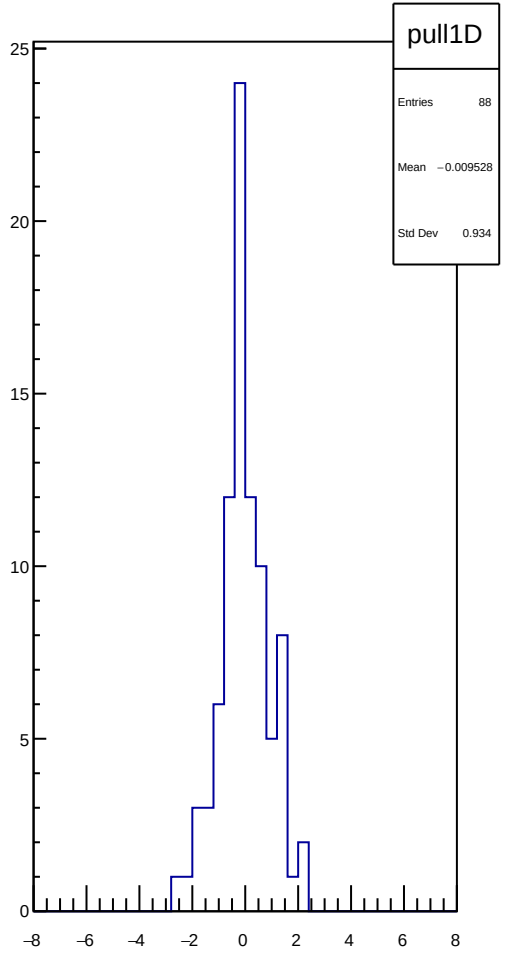

eigen_dit_asym_sam_1548_avg_rms vs run
χ^2 / ndf 6253 / 87
p0 117.2 ± 0.09028
145
140
135
130
125
120
115
110
105

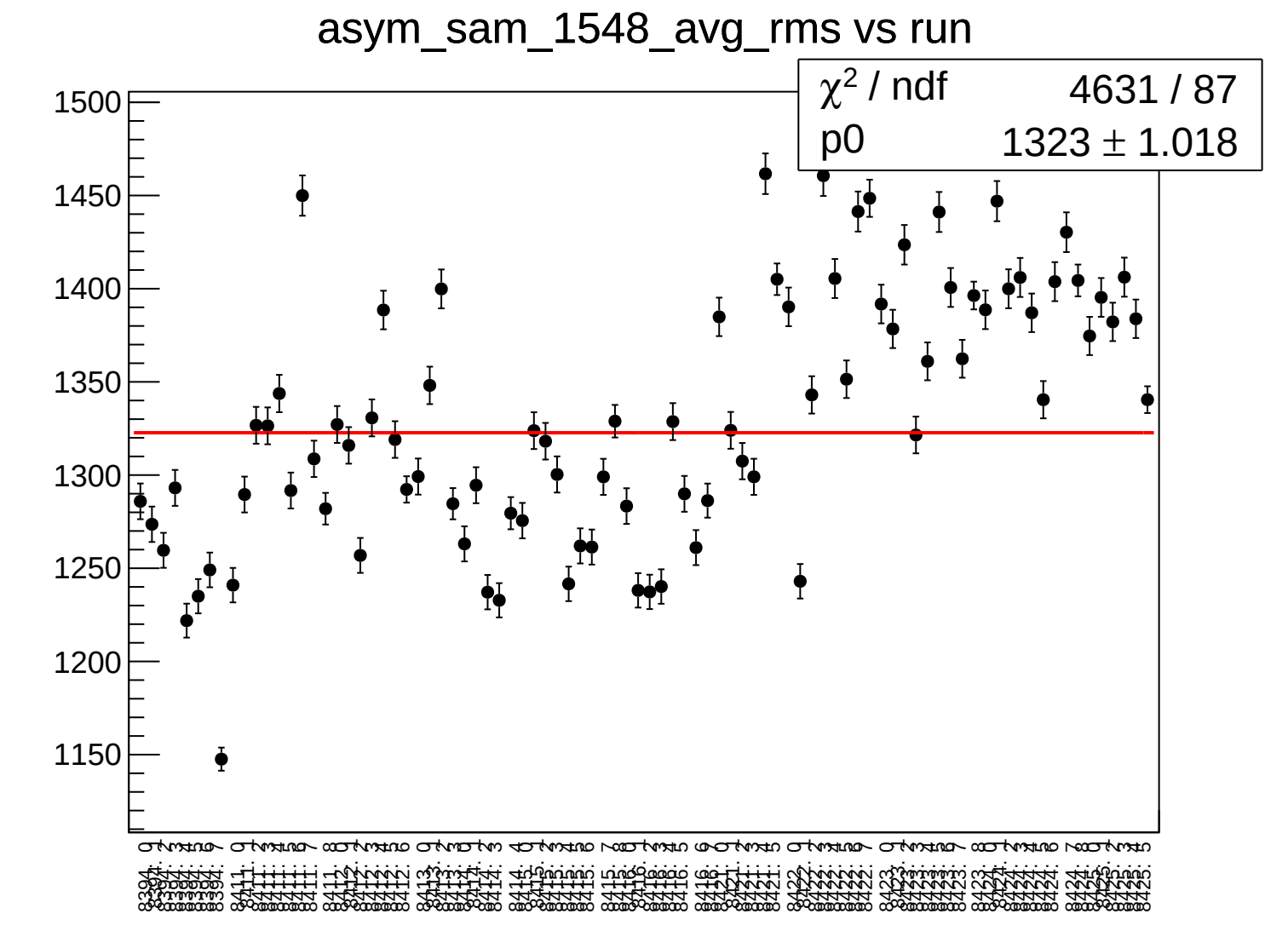

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 76.98 / 87
p0 −7652 ± 1458
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −453.3
Std Dev 0
2
1
0
−1
−2

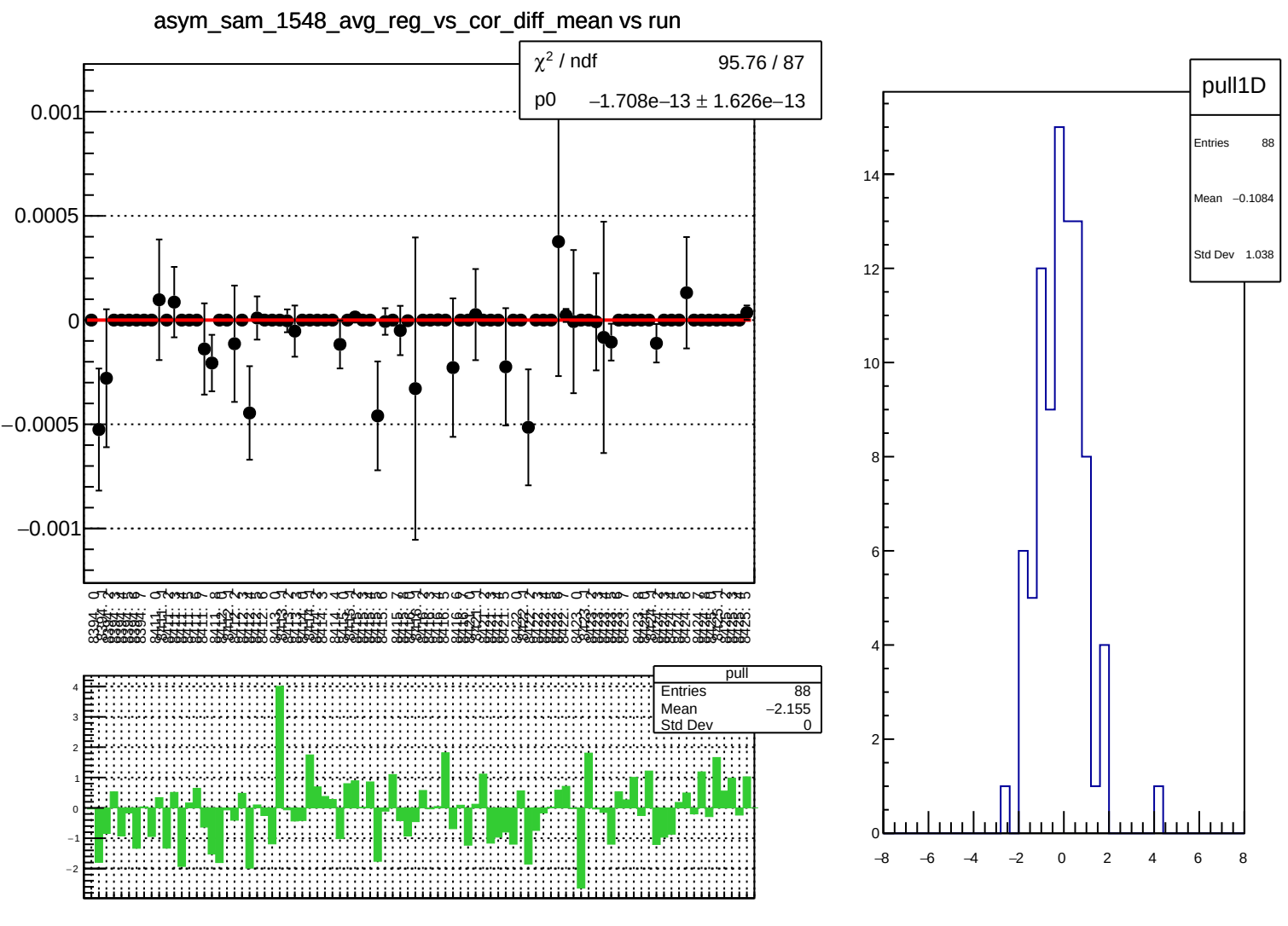

pull1D
Entries 88
Mean 0.008464
Std Dev 0.9353
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

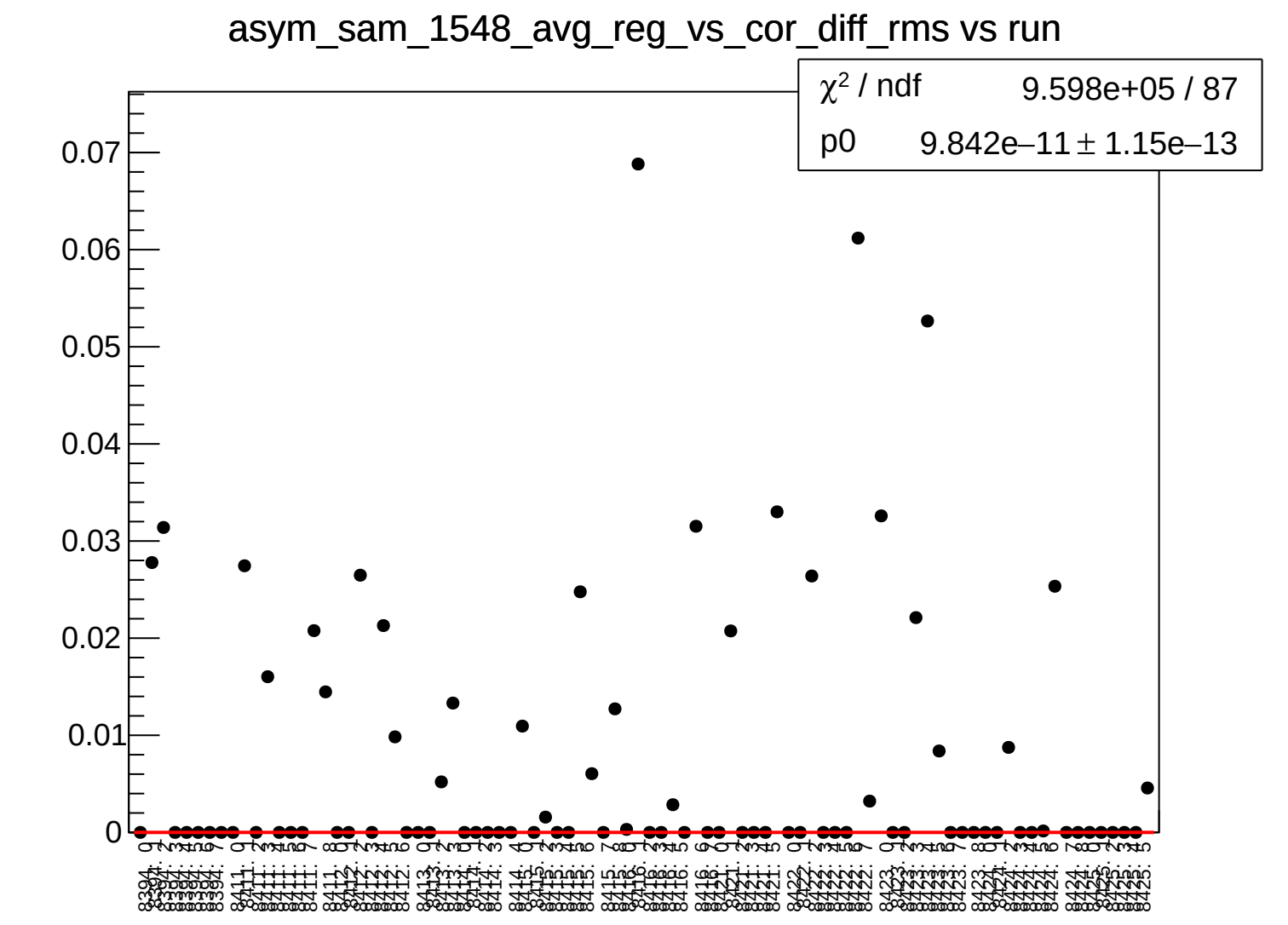

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 4613 / 87
p0 1340 ± 1.031
1500
1450
1400
1350
1300
1250
1200
1150

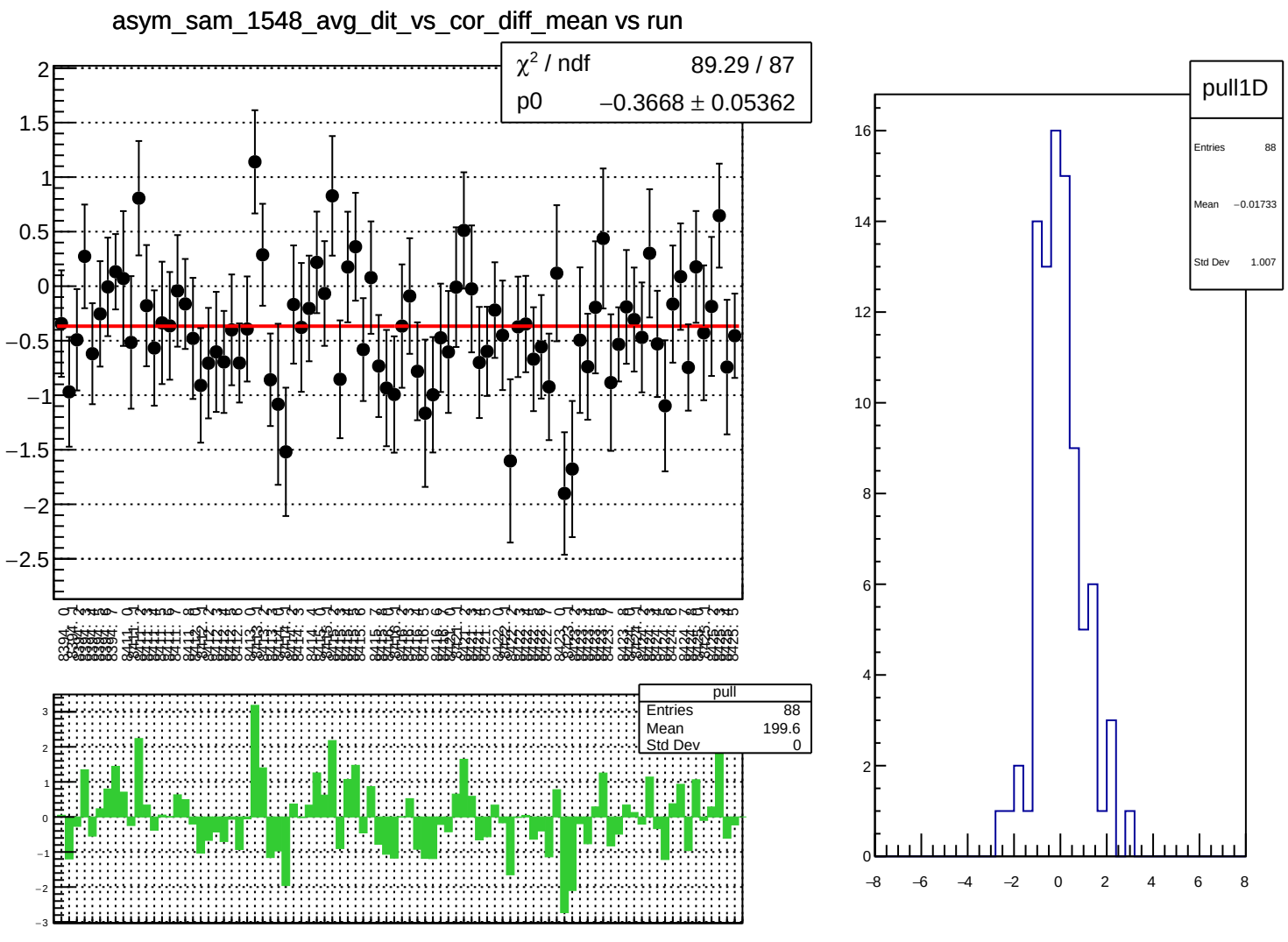

asym_sam_1548_avg_mean vs run
χ² / ndf 76.78 / 87
p0 7703 ± 1440
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −419.7
Std Dev 0
2
1
0
−1
−2

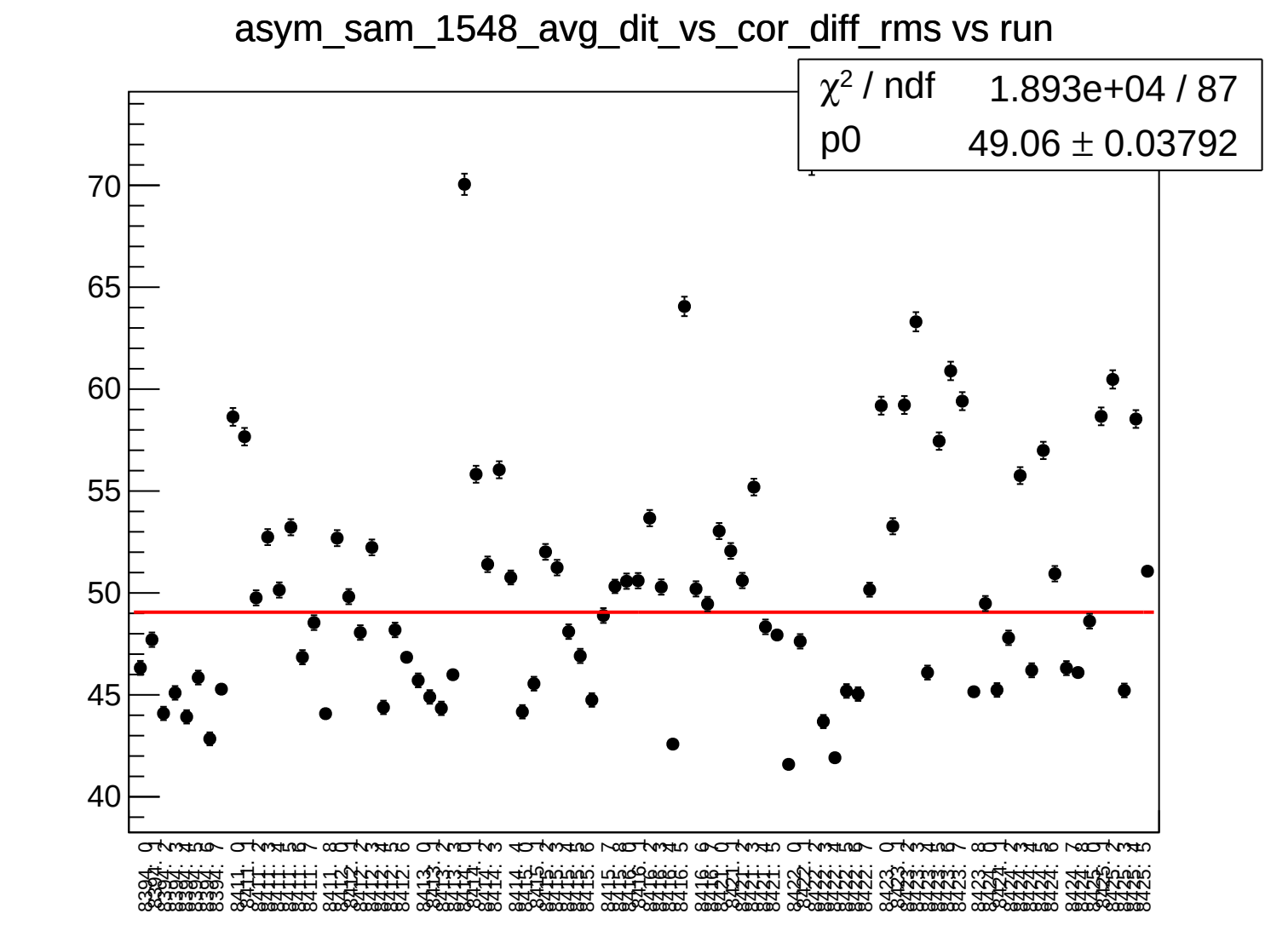

pull1D
Entries 88
Mean −0.009528
Std Dev 0.934
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

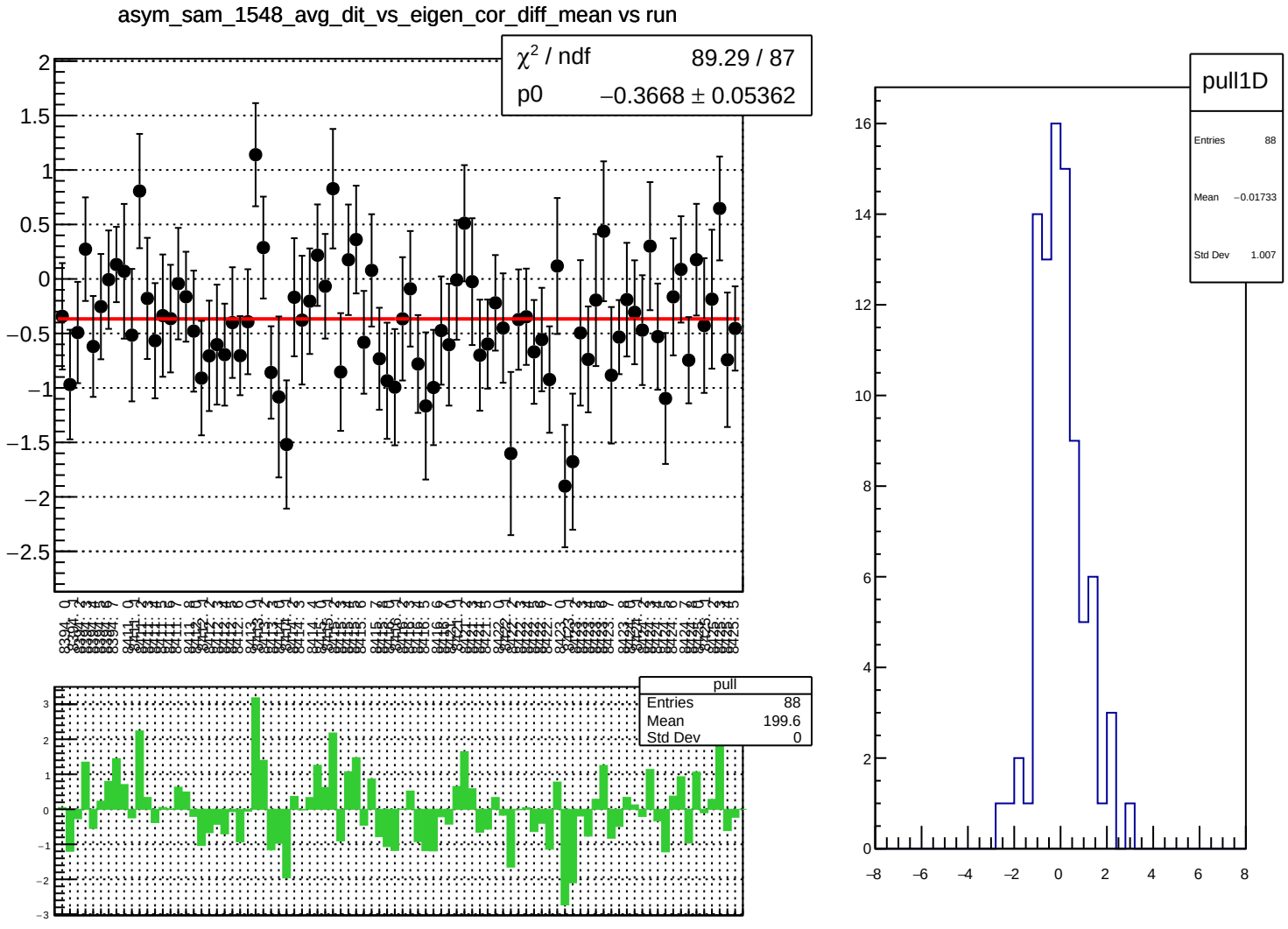

asym_sam_1548_avg_rms vs run
χ² / ndf 4631 / 87
p0 1323 ± 1.018
1500
1450
1400
1350
1300
1250
1200
1150

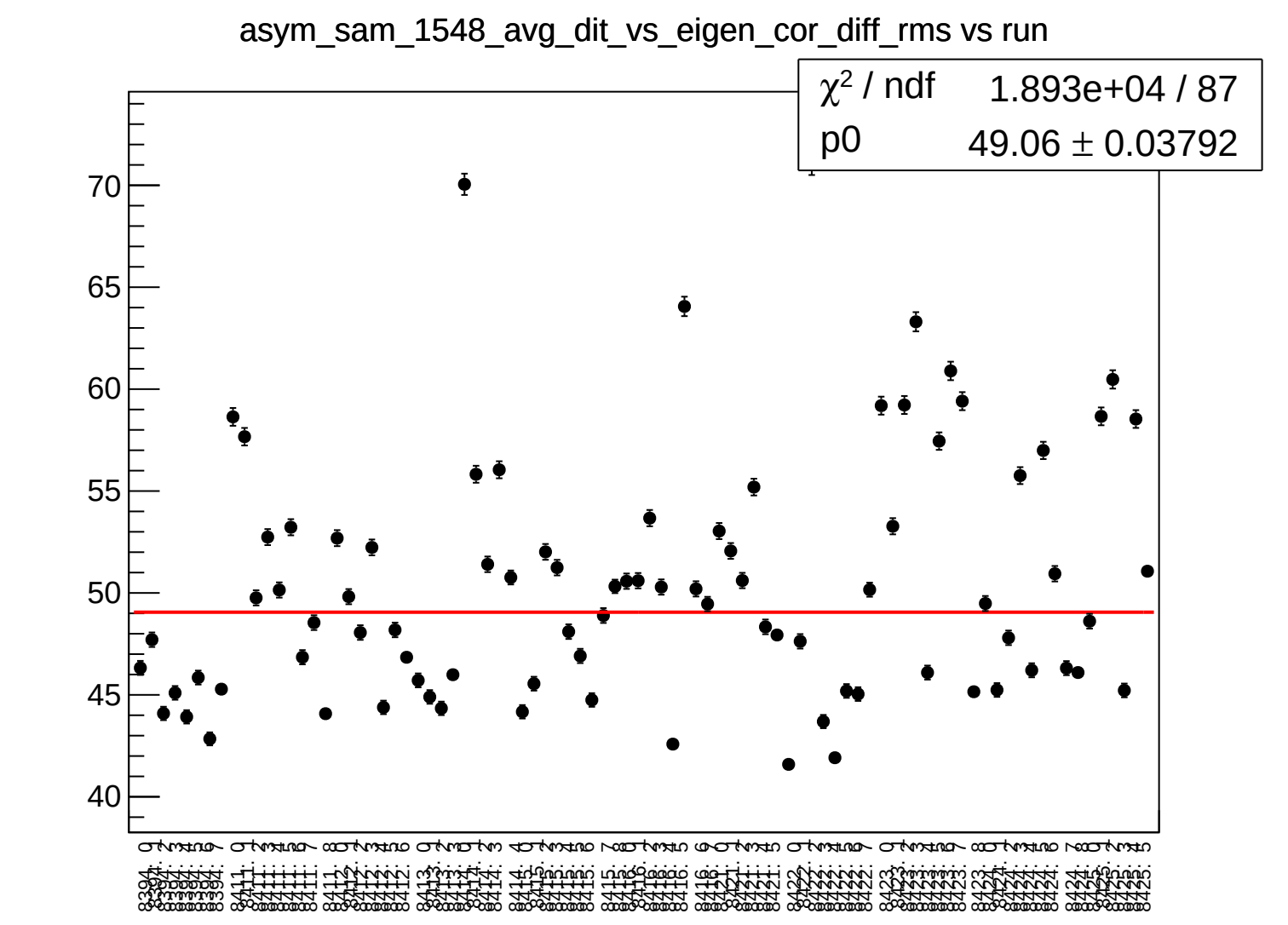

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 95.76 / 87
p0 −1.708e−13 ± 1.626e−13
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean −2.155
Std Dev 0
pull1D
Entries 88
Mean −0.1084
Std Dev 1.038

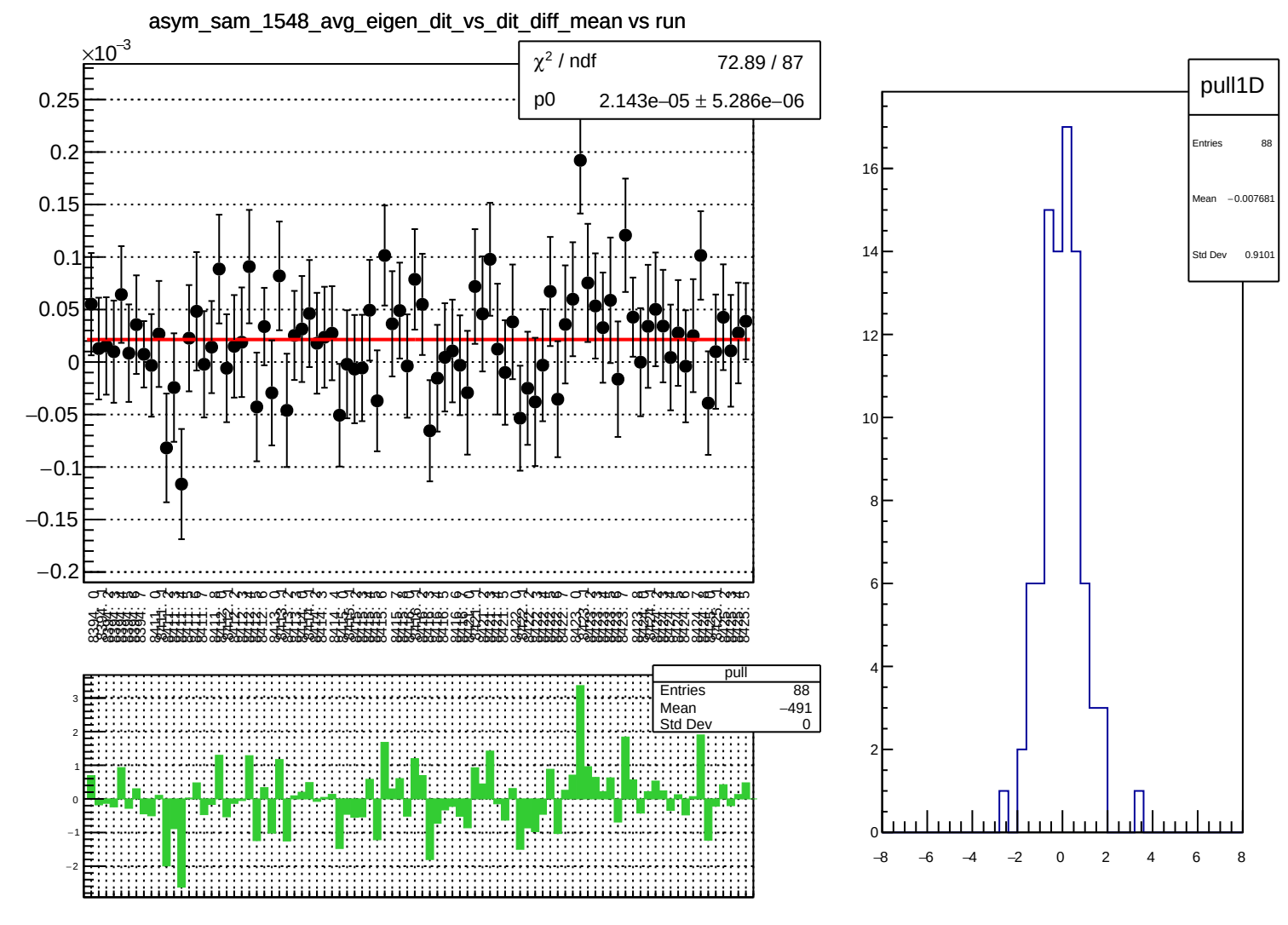

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.598e+05 / 87
p0 9.842e−11 ± 1.15e−13
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

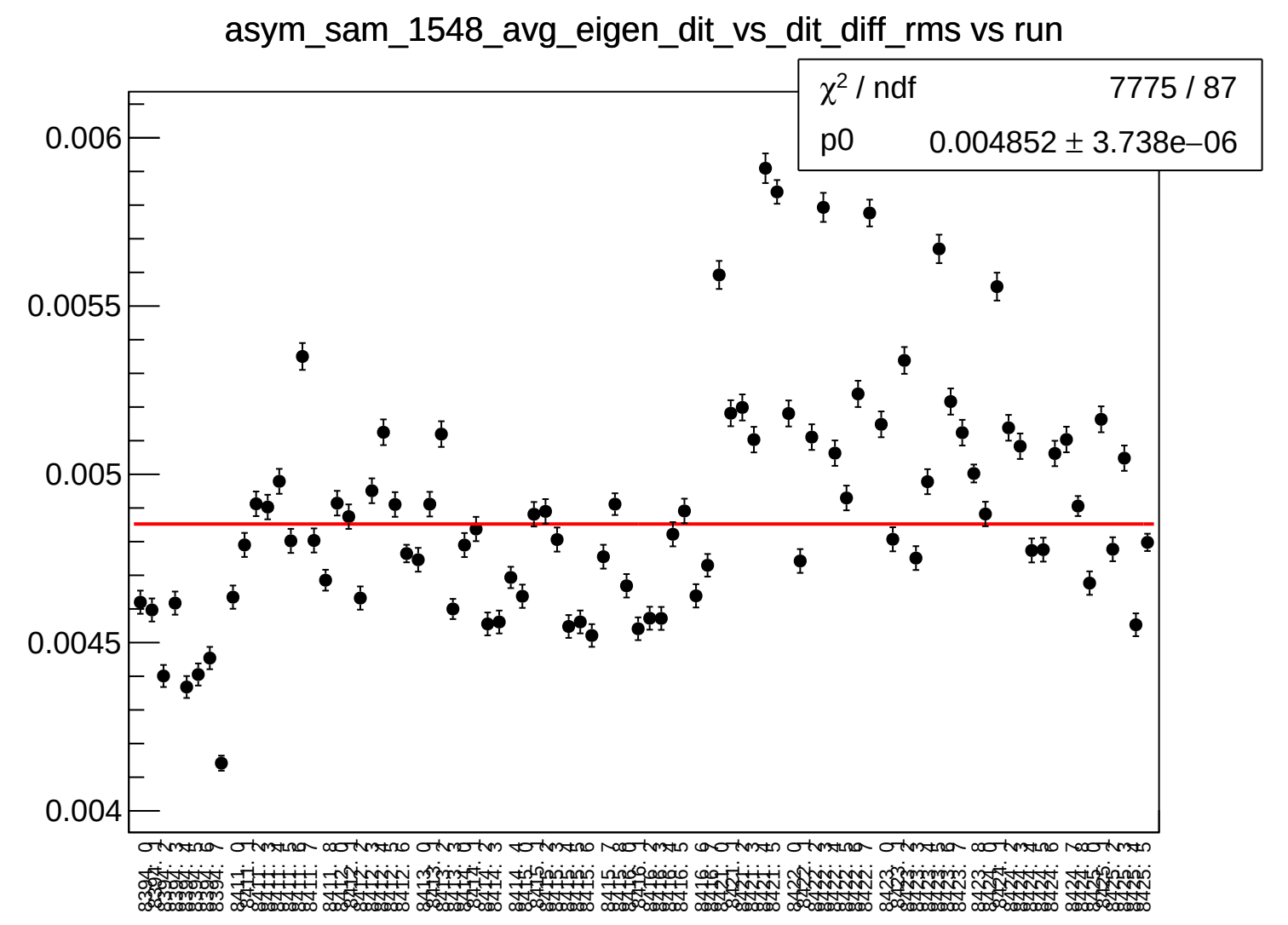

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.29 / 87
p0 −0.3668 ± 0.05362
pull
Entries 88
Mean 199.6
Std Dev 0
pull1D
Entries 88
Mean −0.01733
Std Dev 1.007

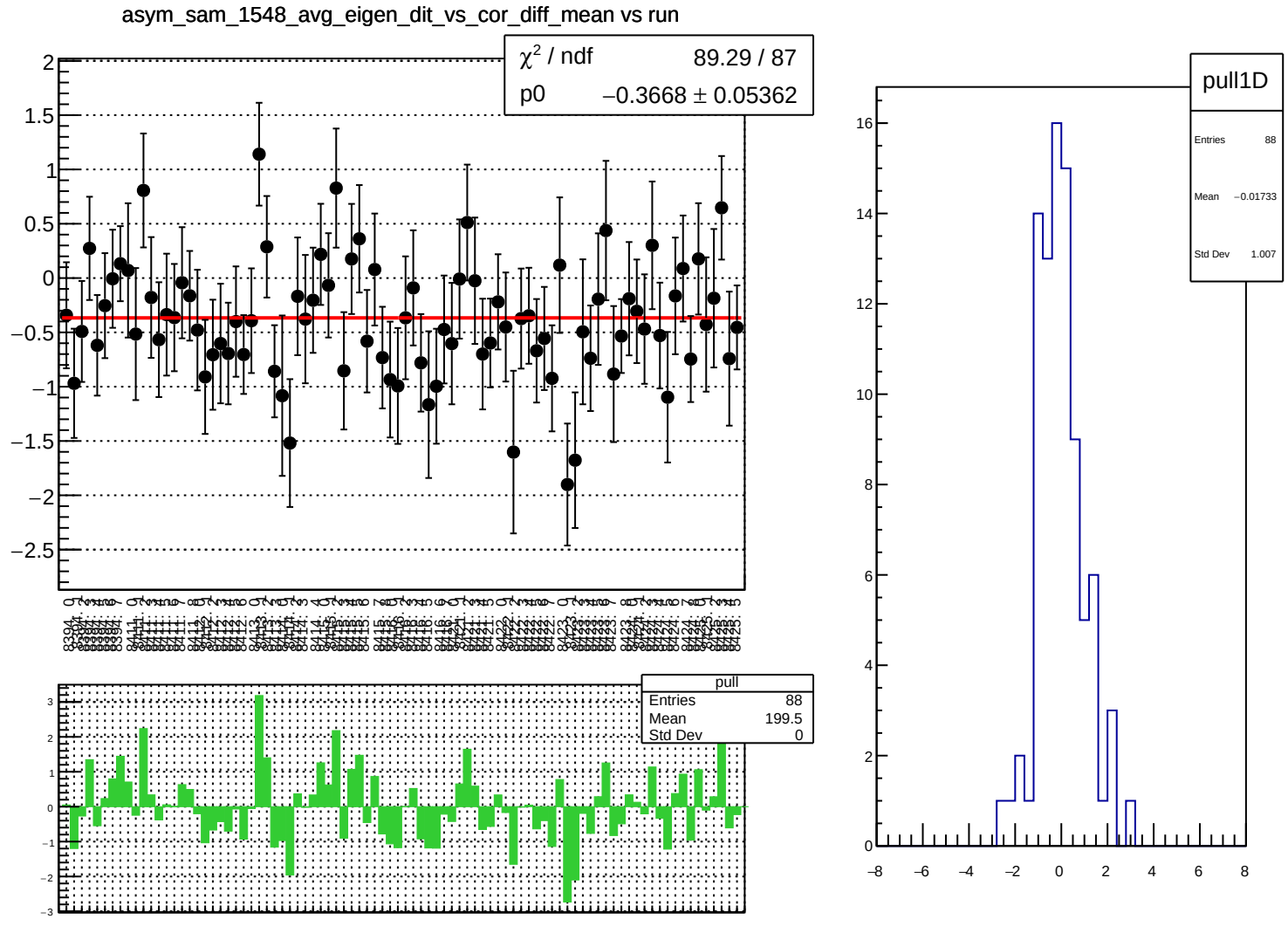

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.893e+04 / 87
p0 49.06 ± 0.03792
70
65
60
55
50
45
40

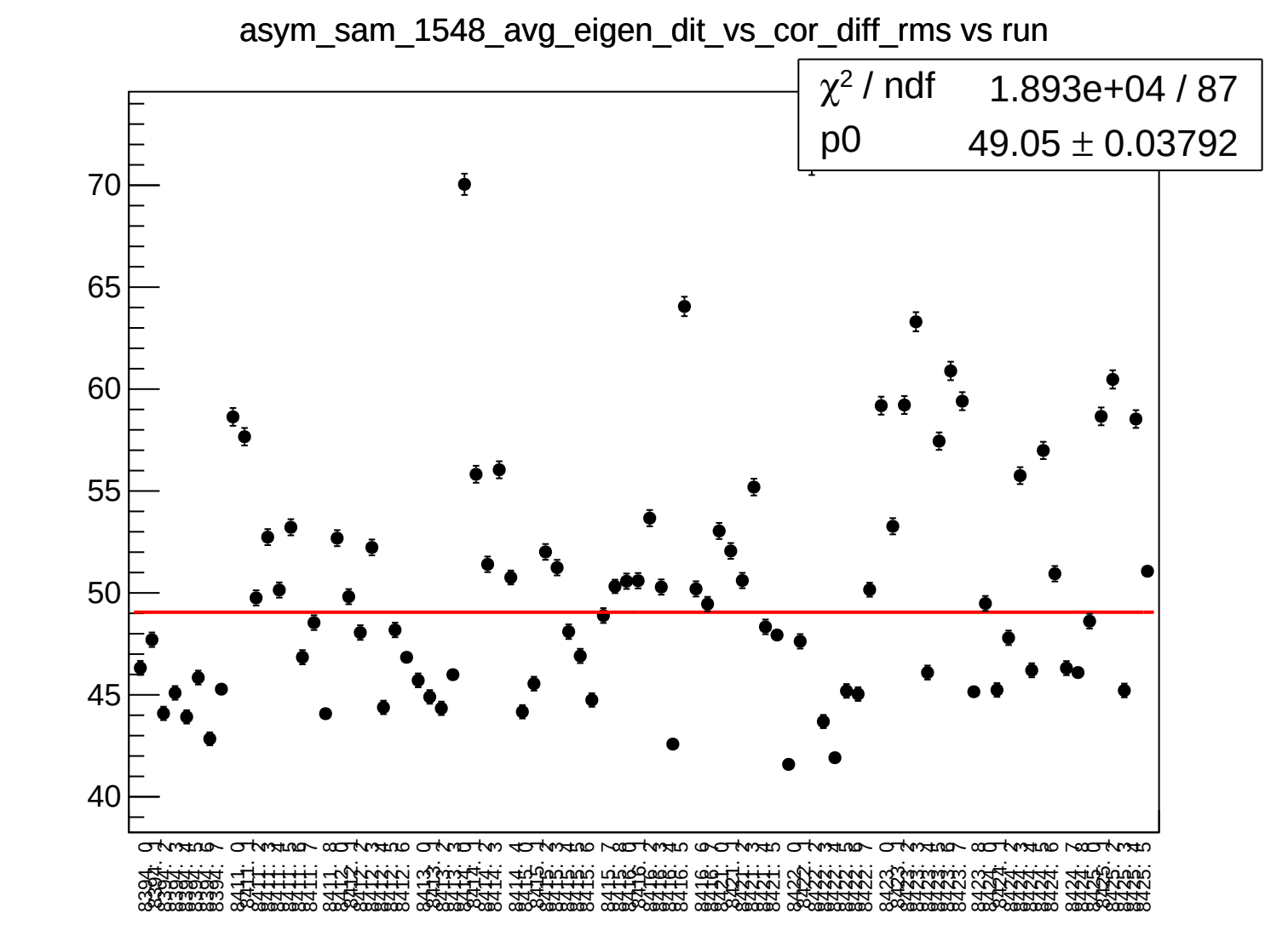

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.29 / 87
p0 −0.3668 ± 0.05362
pull
Entries 88
Mean 199.6
Std Dev 0
pull1D
Entries 88
Mean −0.01733
Std Dev 1.007

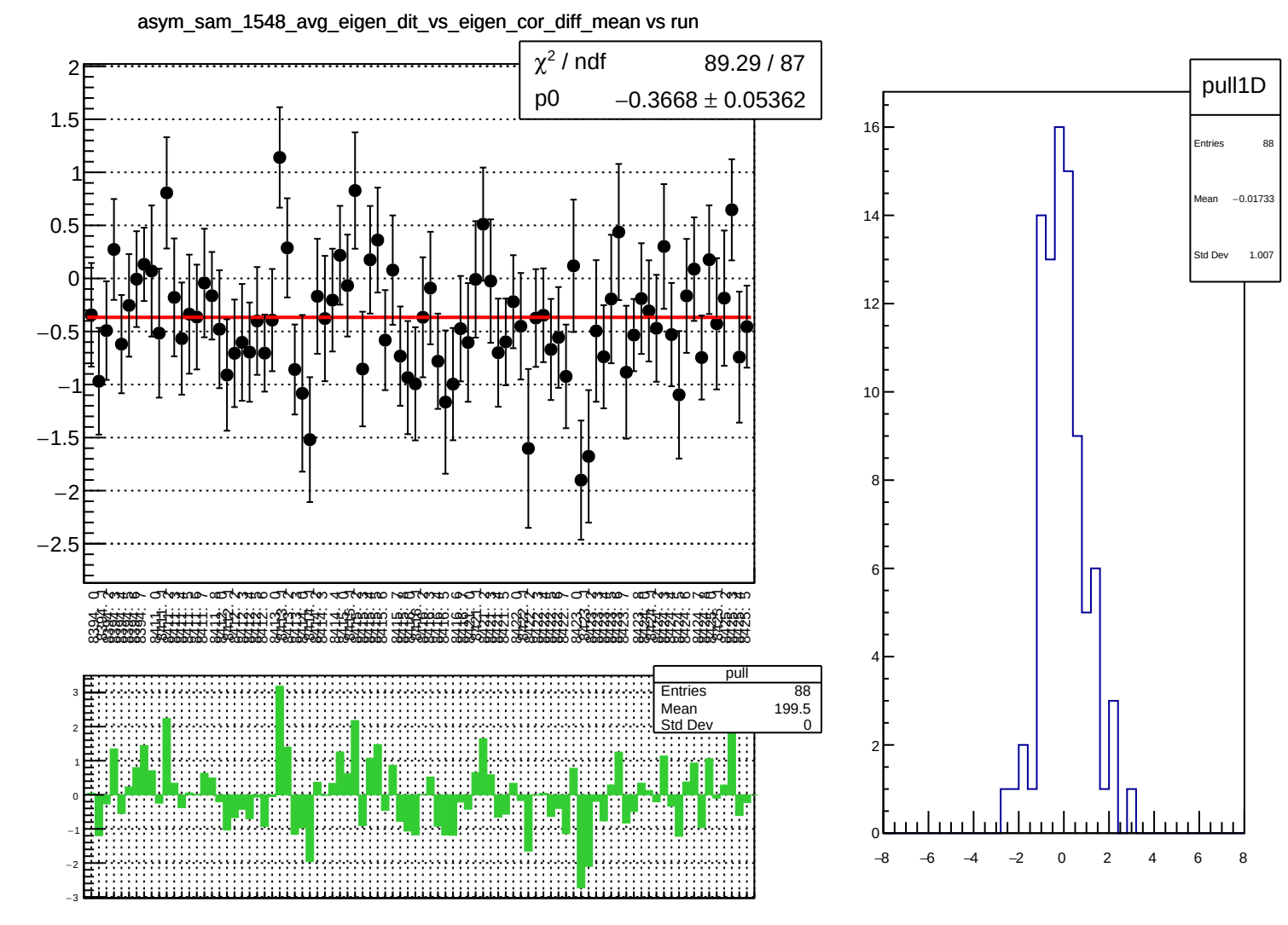

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.893e+04 / 87
p0 49.06 ± 0.03792
70
65
60
55
50
45
40

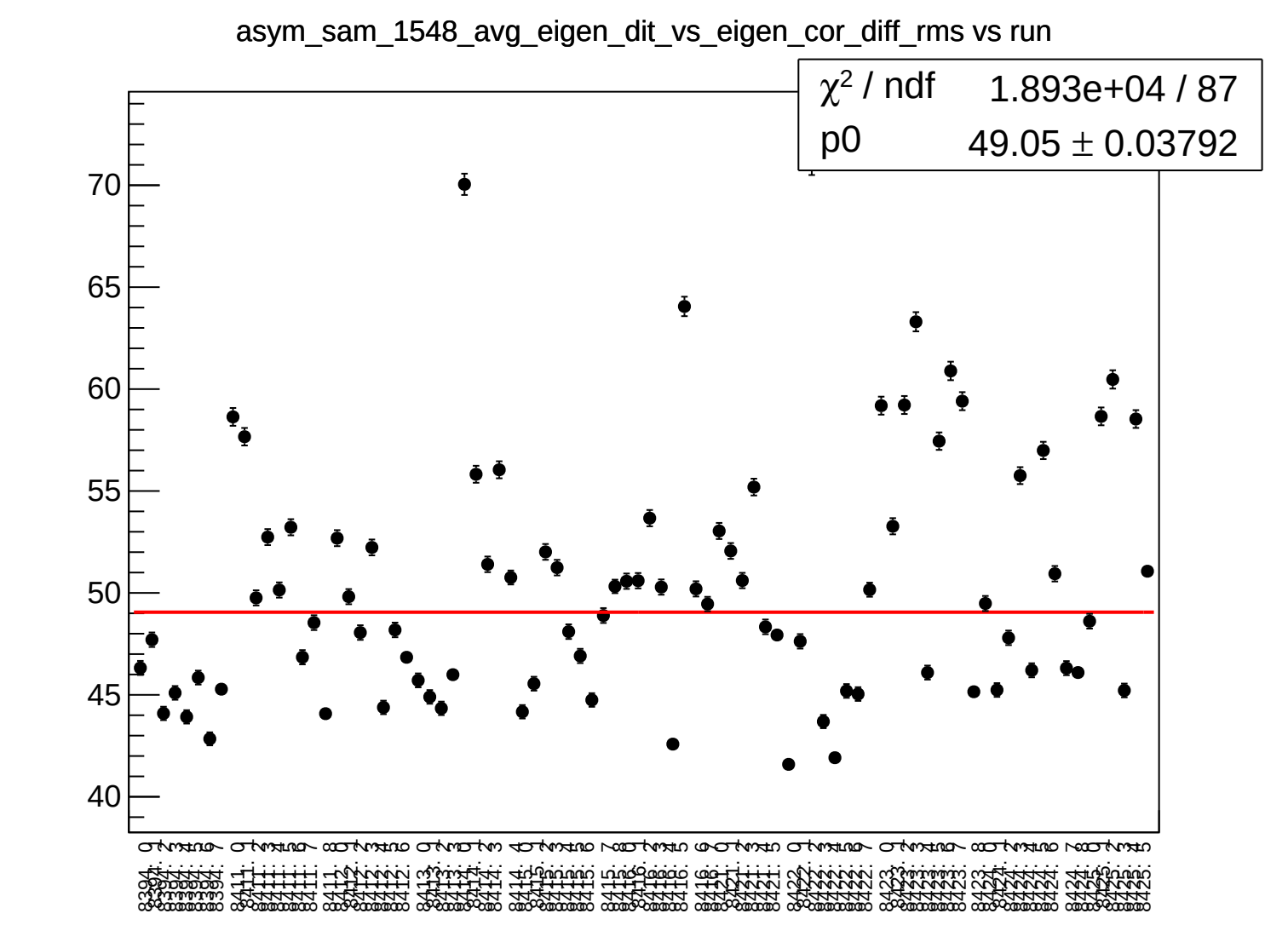

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.89 / 87
p0 2.143e−05 ± 5.286e−06
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 88
Mean −491
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.007681
Std Dev 0.9101
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

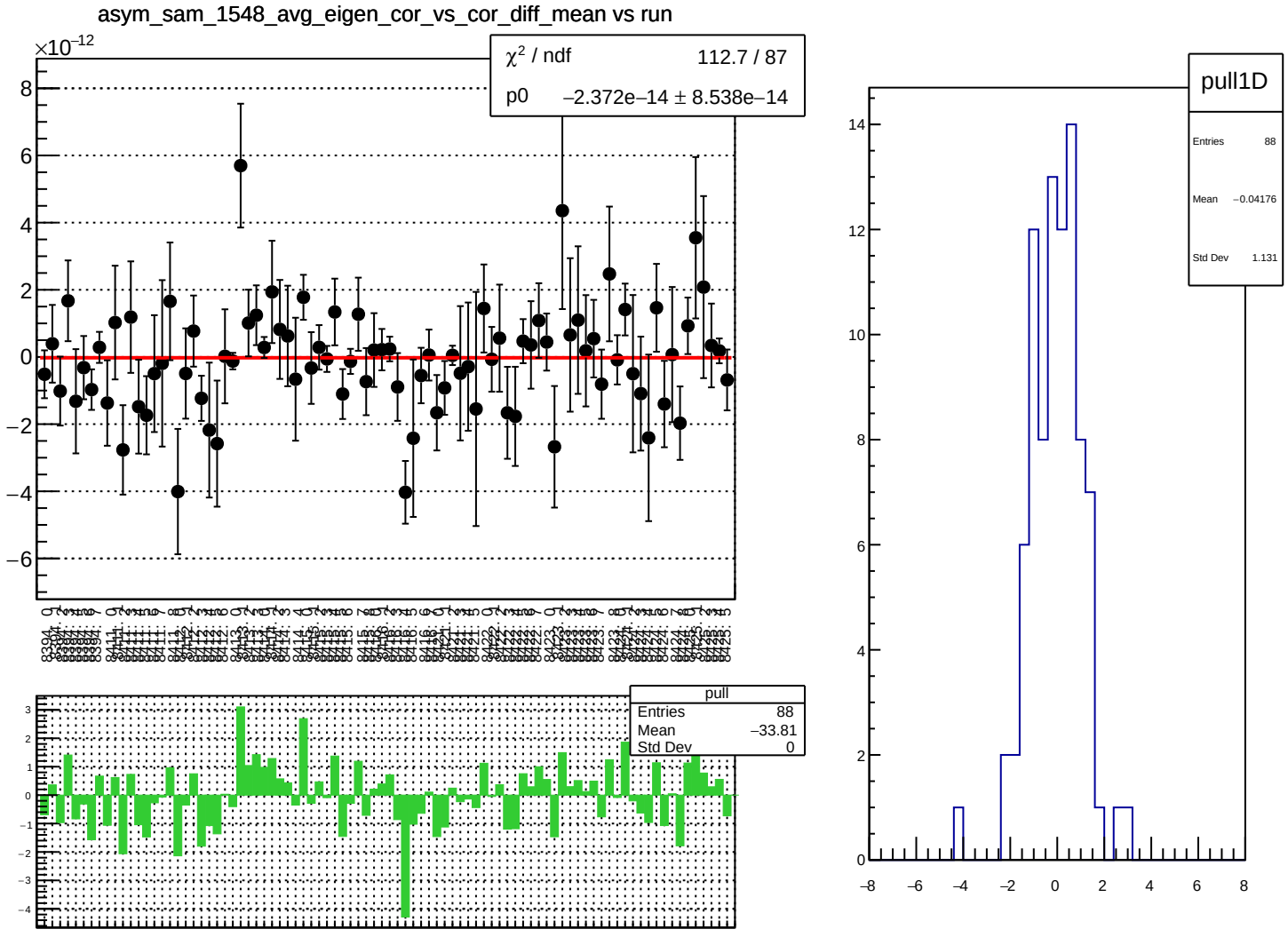

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7775 / 87
p0 0.004852 ± 3.738e−06
0.006
0.0055
0.005
0.0045
0.004

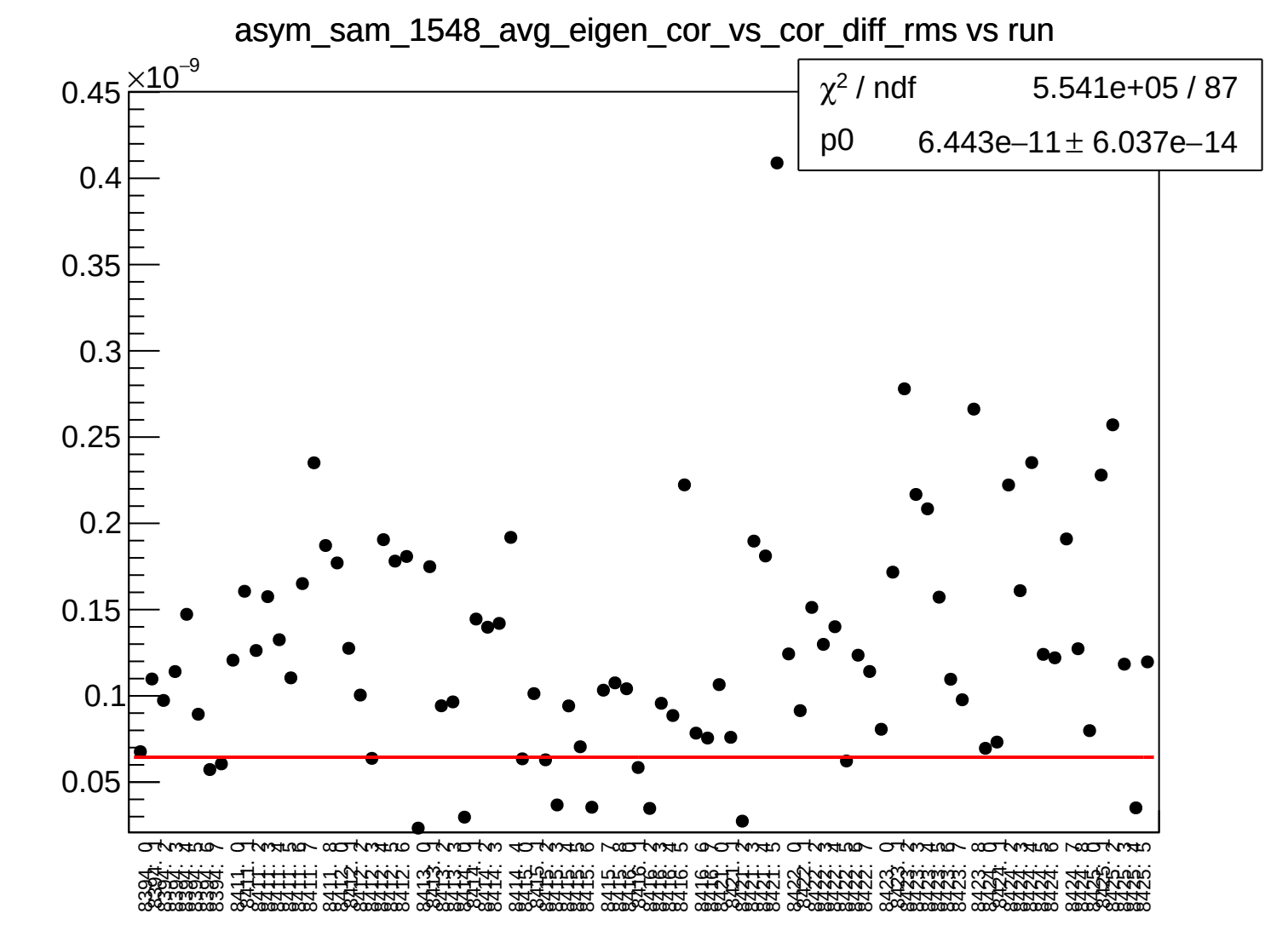

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.29 / 87
p0 −0.3668 ± 0.05362
pull
Entries 88
Mean 199.5
Std Dev 0
pull1D
Entries 88
Mean −0.01733
Std Dev 1.007

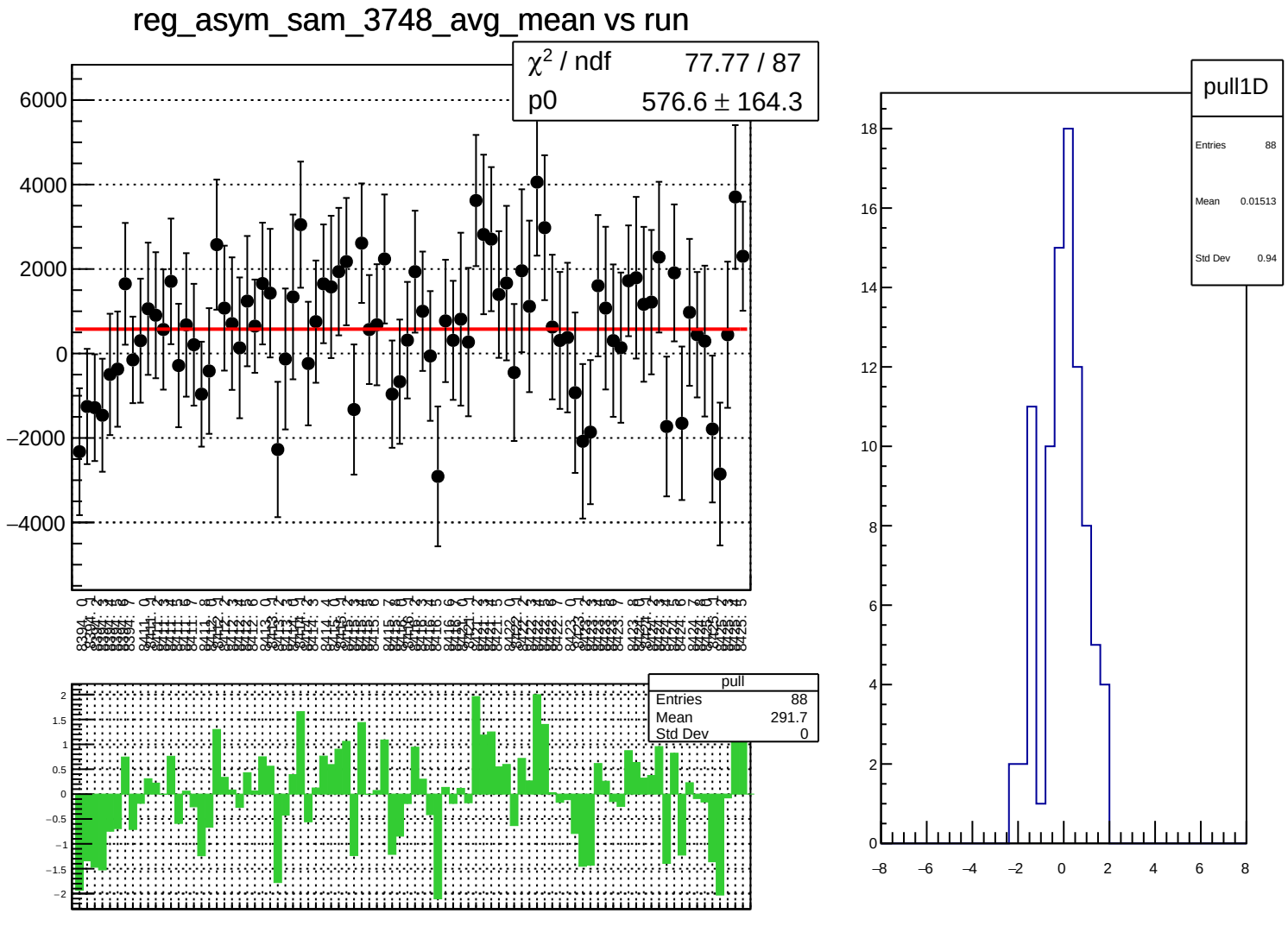

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.893e+04 / 87
p0 49.05 ± 0.03792
70
65
60
55
50
45
40

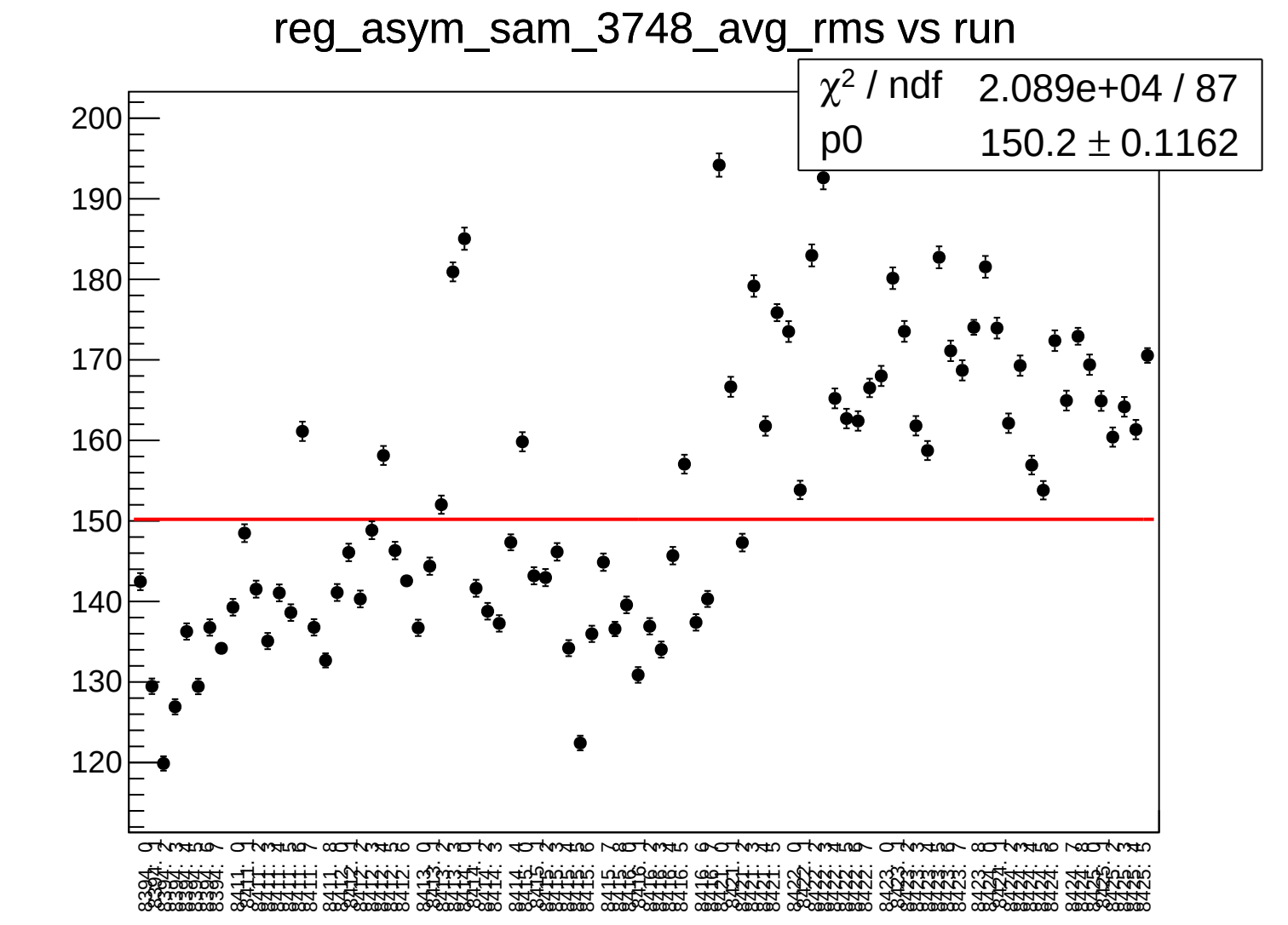

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.29 / 87
p0 −0.3668 ± 0.05362
pull
Entries 88
Mean 199.5
Std Dev 0
pull1D
Entries 88
Mean −0.01733
Std Dev 1.007

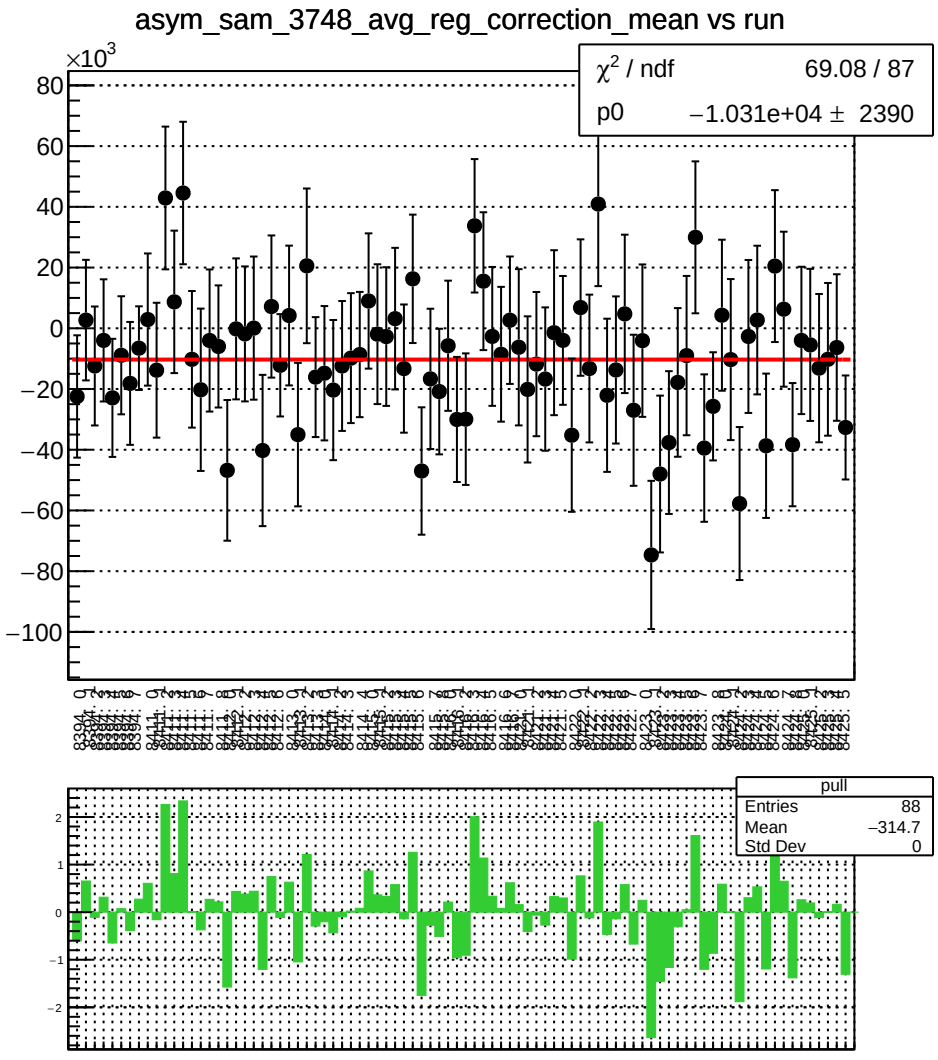

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.893e+04 / 87
p0 49.05 ± 0.03792
70
65
60
55
50
45
40

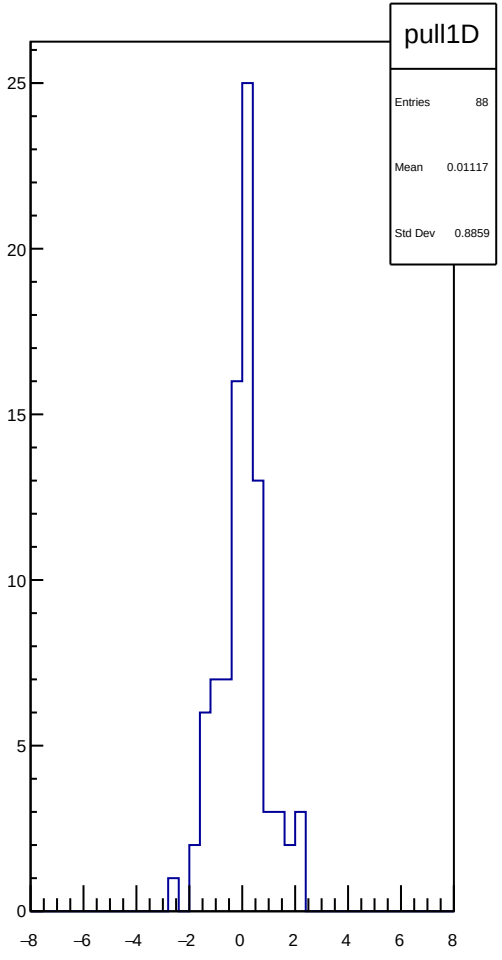

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 112.7 / 87
p0 −2.372e−14 ± 8.538e−14
pull
Entries 88
Mean −33.81
Std Dev 0
pull1D
Entries 88
Mean −0.04176
Std Dev 1.131

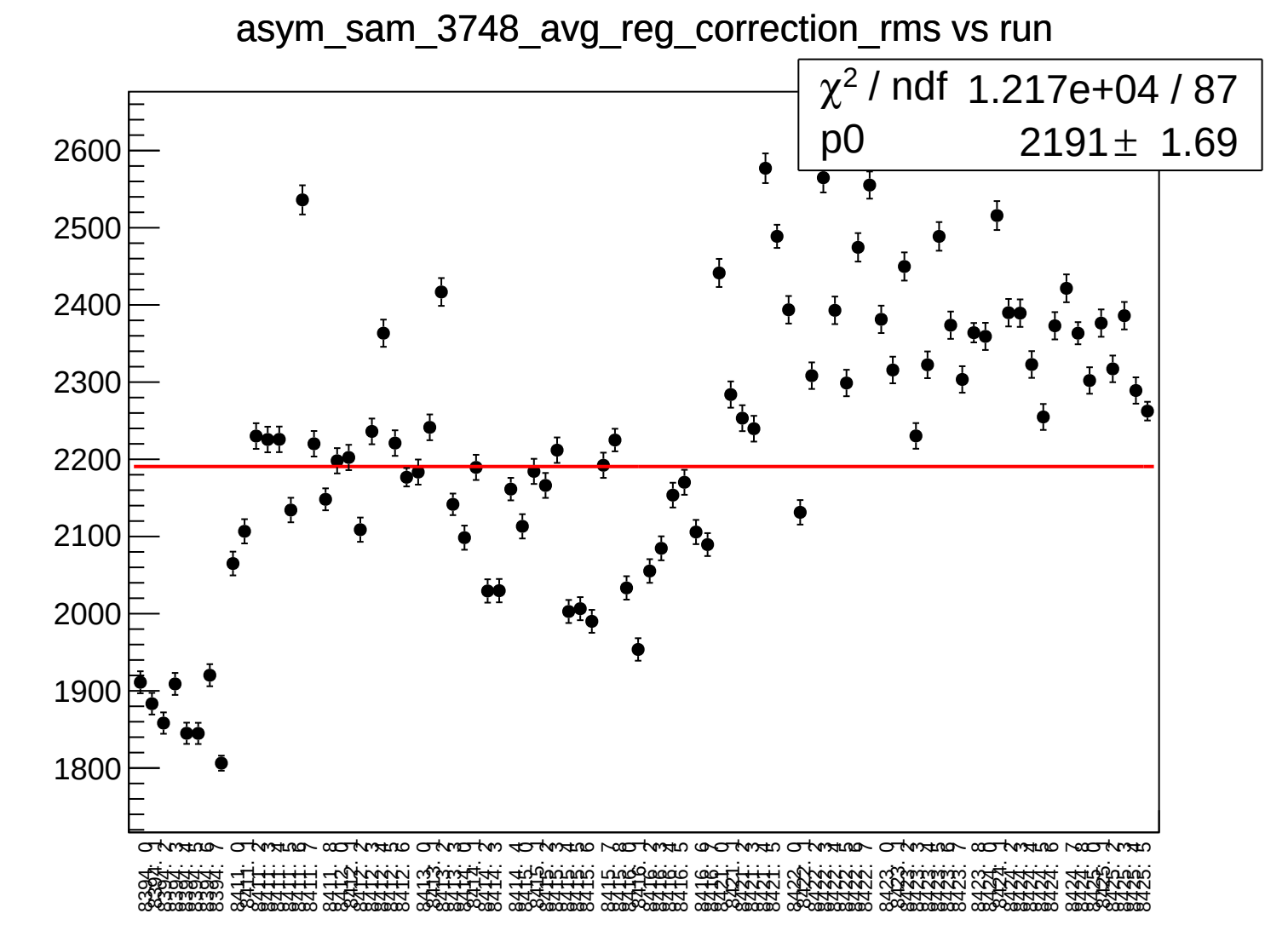

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.541e+05 / 87
p0 6.443e−11 ± 6.037e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

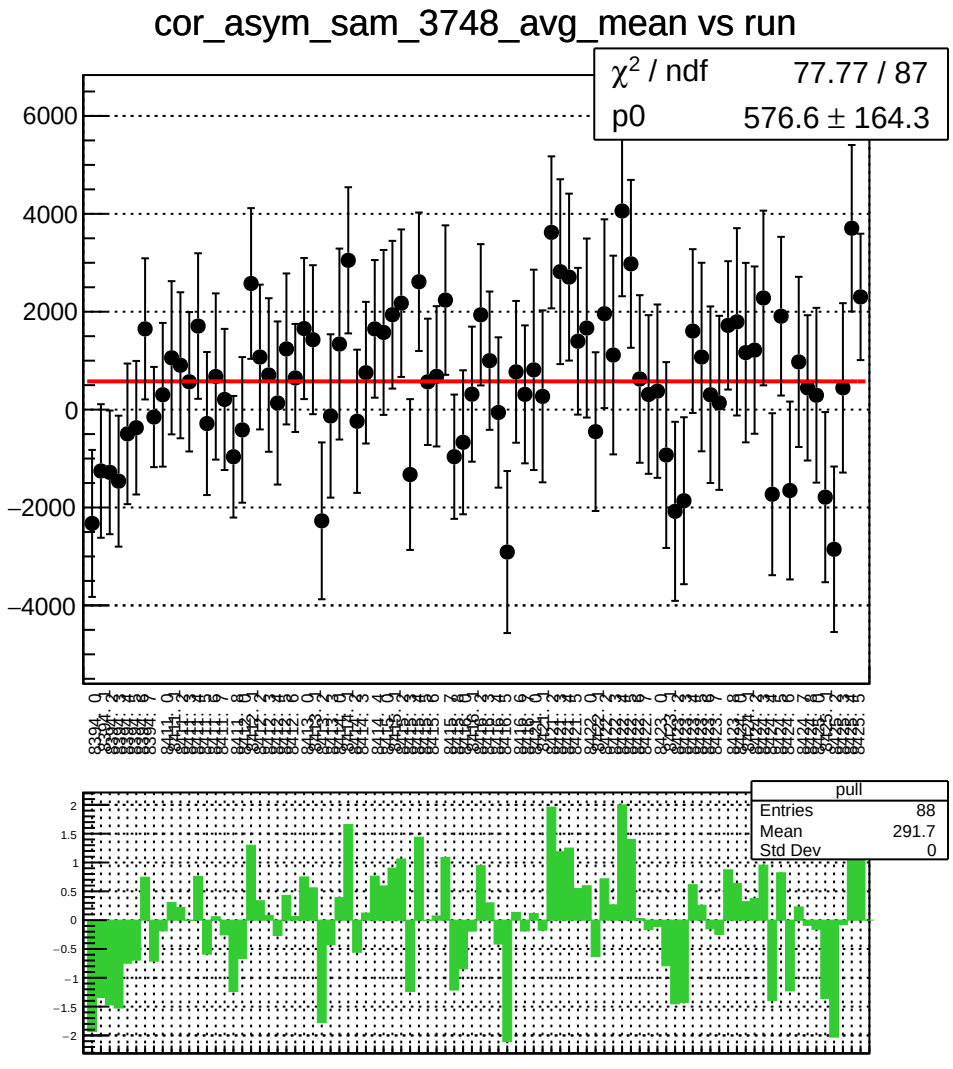

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 77.77 / 87
p0 576.6 ± 164.3
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 291.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean 0.01513
Std Dev 0.94
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

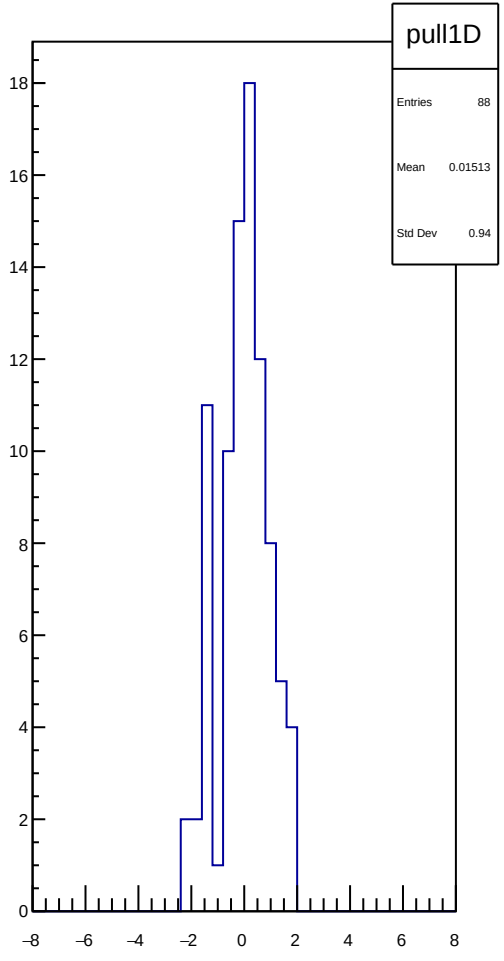

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 2.089e+04 / 87
p0 150.2 ± 0.1162
200
190
180
170
160
150
140
130
120

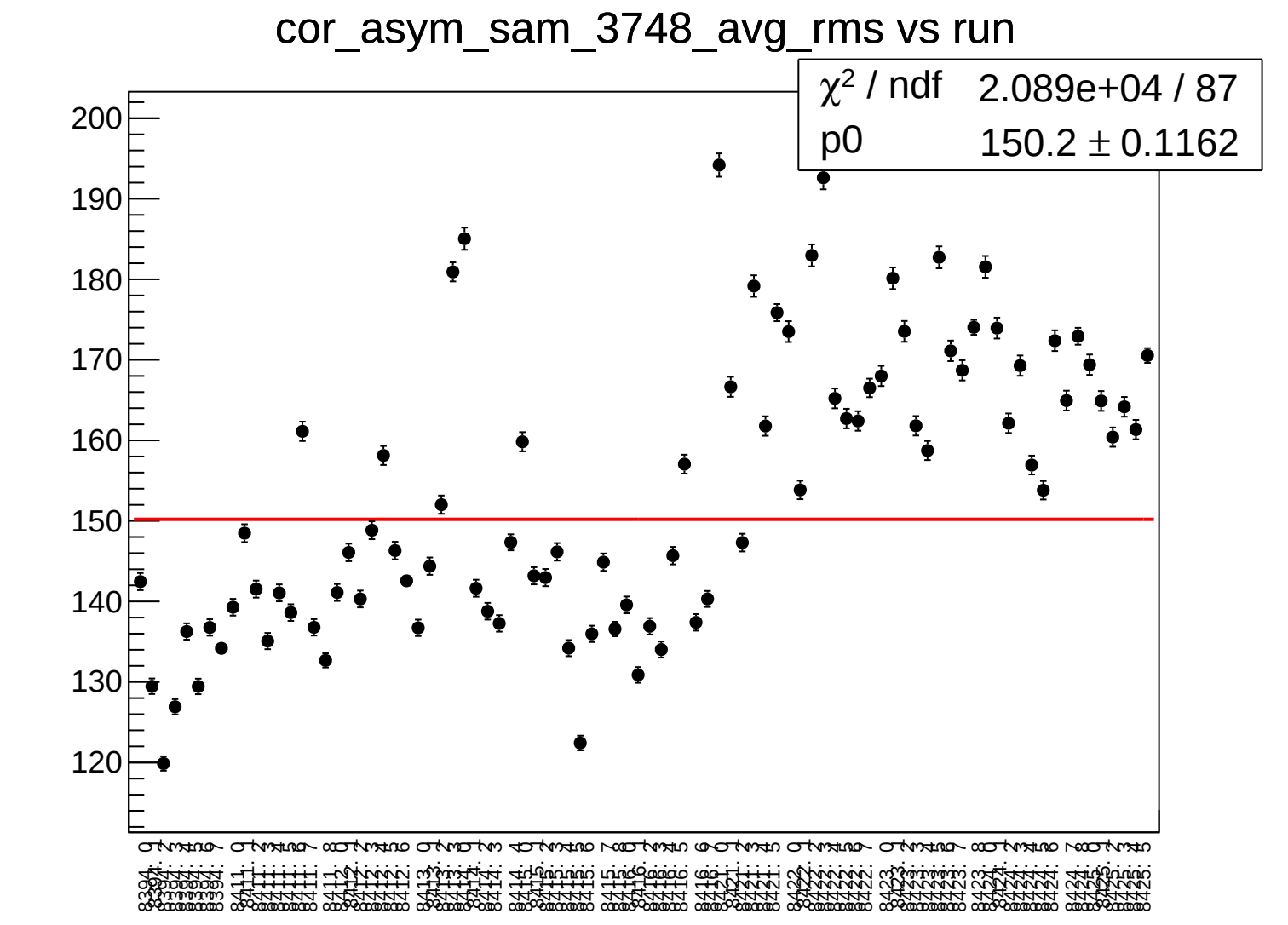

asym_sam_3748_avg_reg_correction_mean vs run
×10^3
χ² / ndf 69.08 / 87
p0 −1.031e+04 ± 2390
pull
Entries 88
Mean −314.7
Std Dev 0

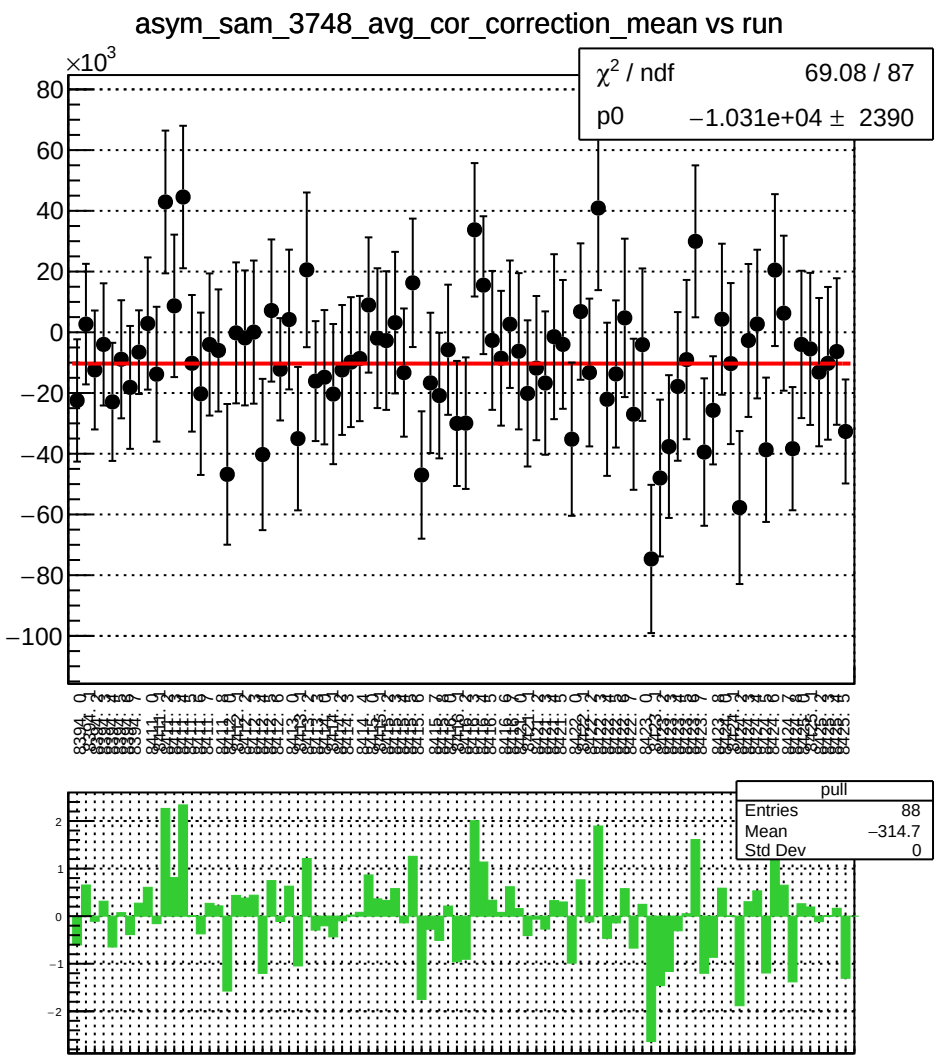

pull1D
Entries 88
Mean 0.01117
Std Dev 0.8859

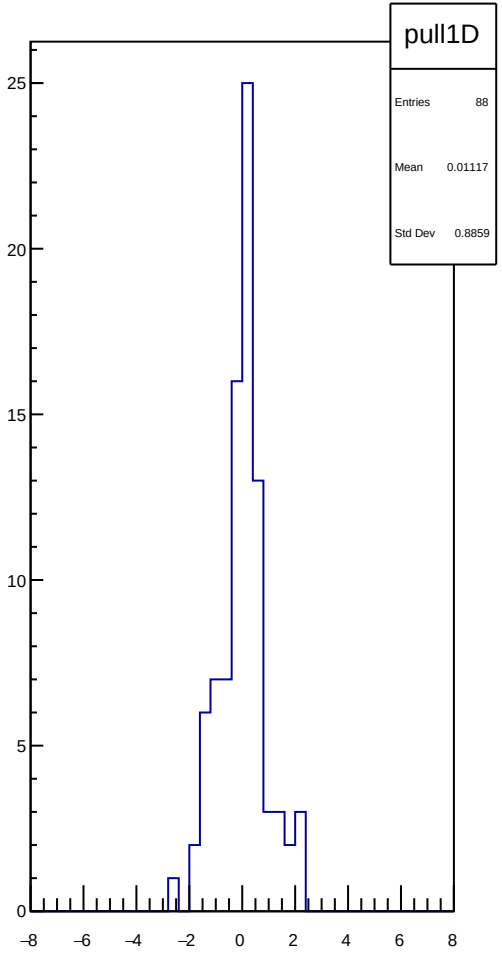

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 1.217e+04 / 87
p0 2191 ± 1.69
2600
2500
2400
2300
2200
2100
2000
1900
1800

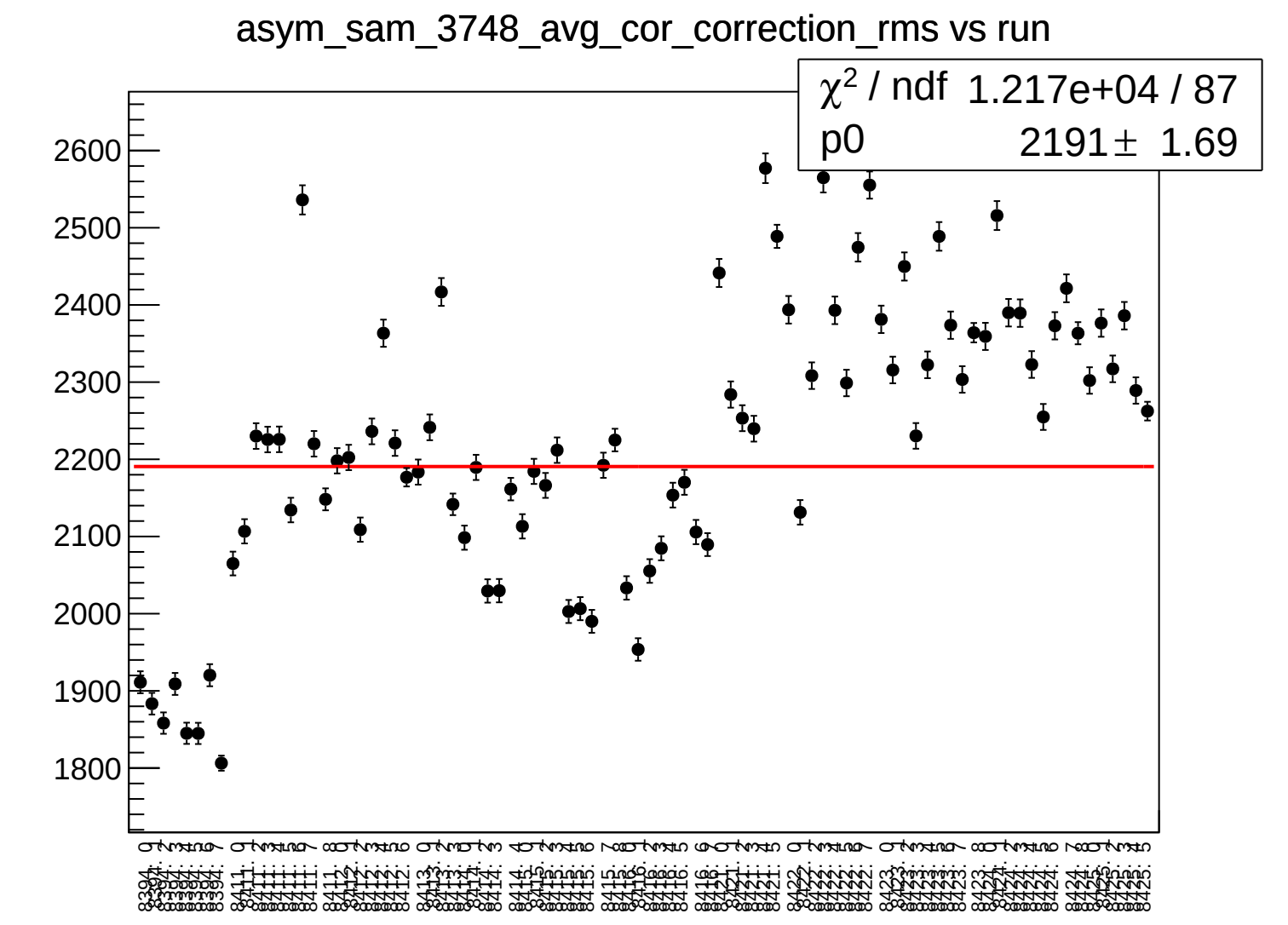

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 77.77 / 87
p0 576.6 ± 164.3
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 291.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

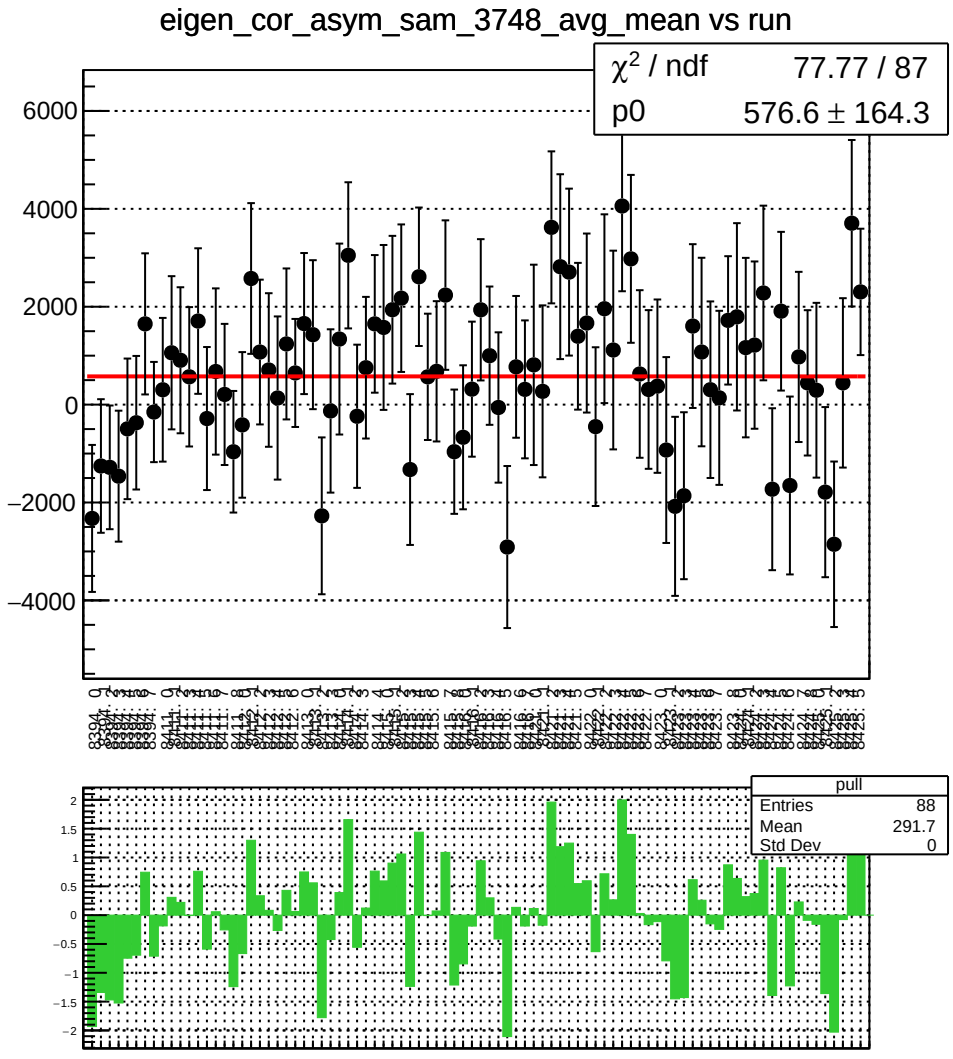

pull1D
Entries 88
Mean 0.01513
Std Dev 0.94
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

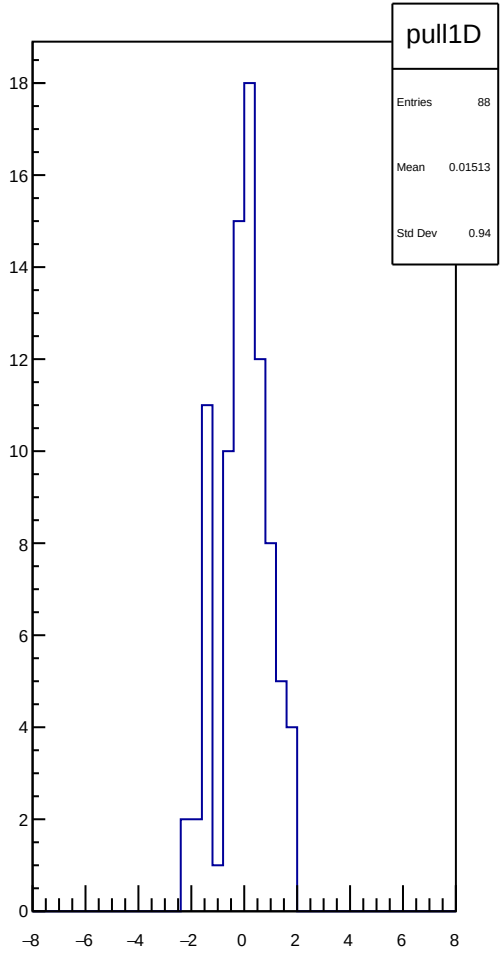

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 2.089e+04 / 87
p0 150.2 ± 0.1162
200
190
180
170
160
150
140
130
120

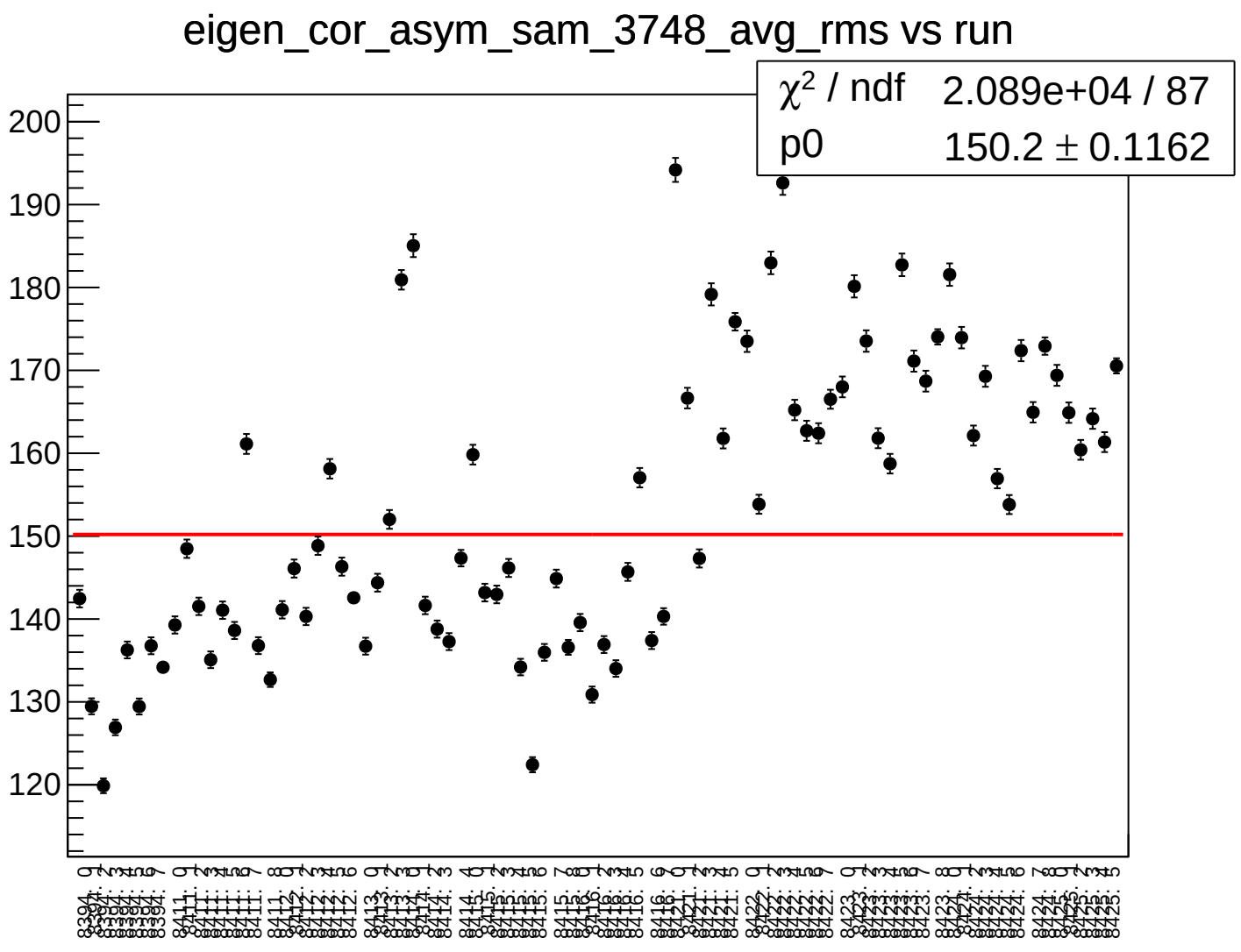

asym_sam_3748_avg_cor_correction_mean vs run
×10^3
χ² / ndf 69.08 / 87
p0 −1.031e+04 ± 2390
pull
Entries 88
Mean −314.7
Std Dev 0

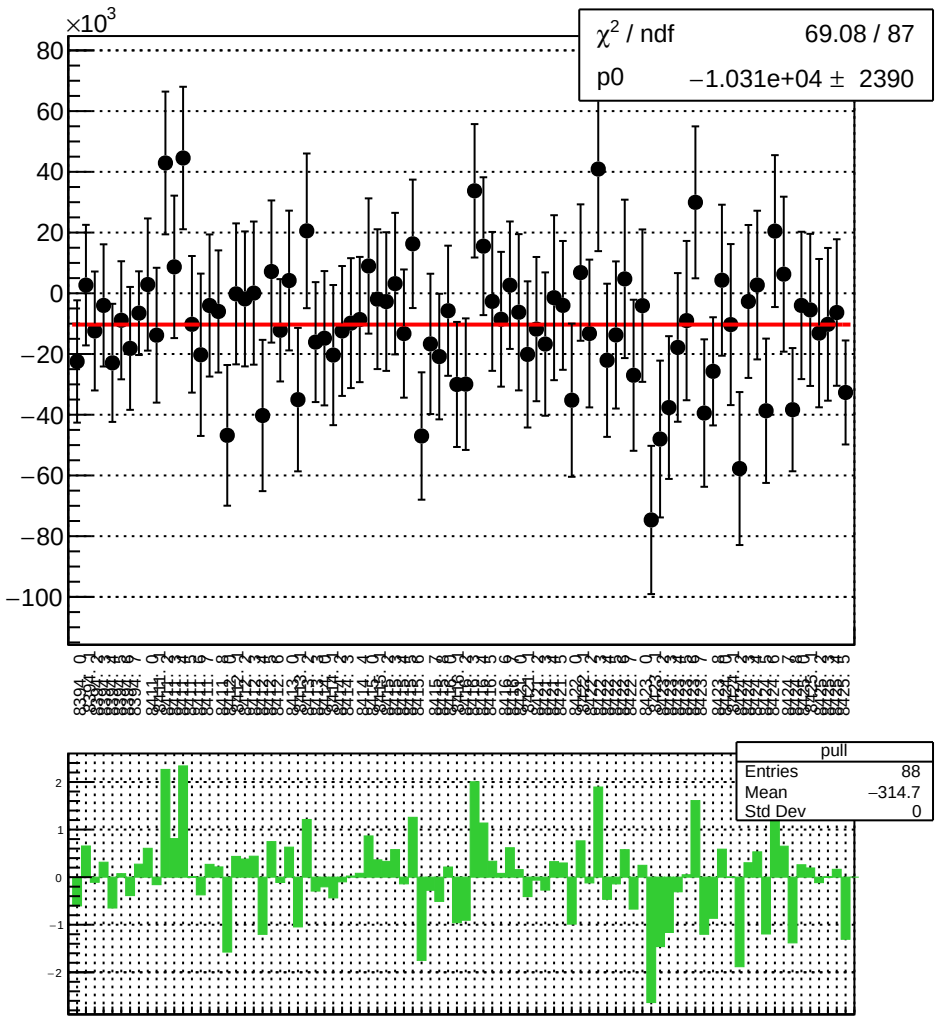

pull1D
Entries 88
Mean 0.01117
Std Dev 0.8859

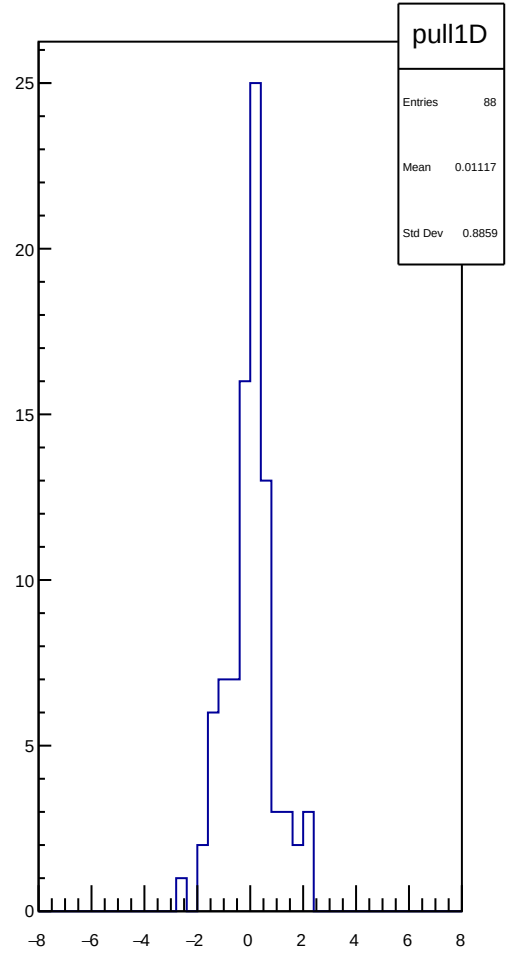

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 1.217e+04 / 87
p0 2191 ± 1.69
2600
2500
2400
2300
2200
2100
2000
1900
1800

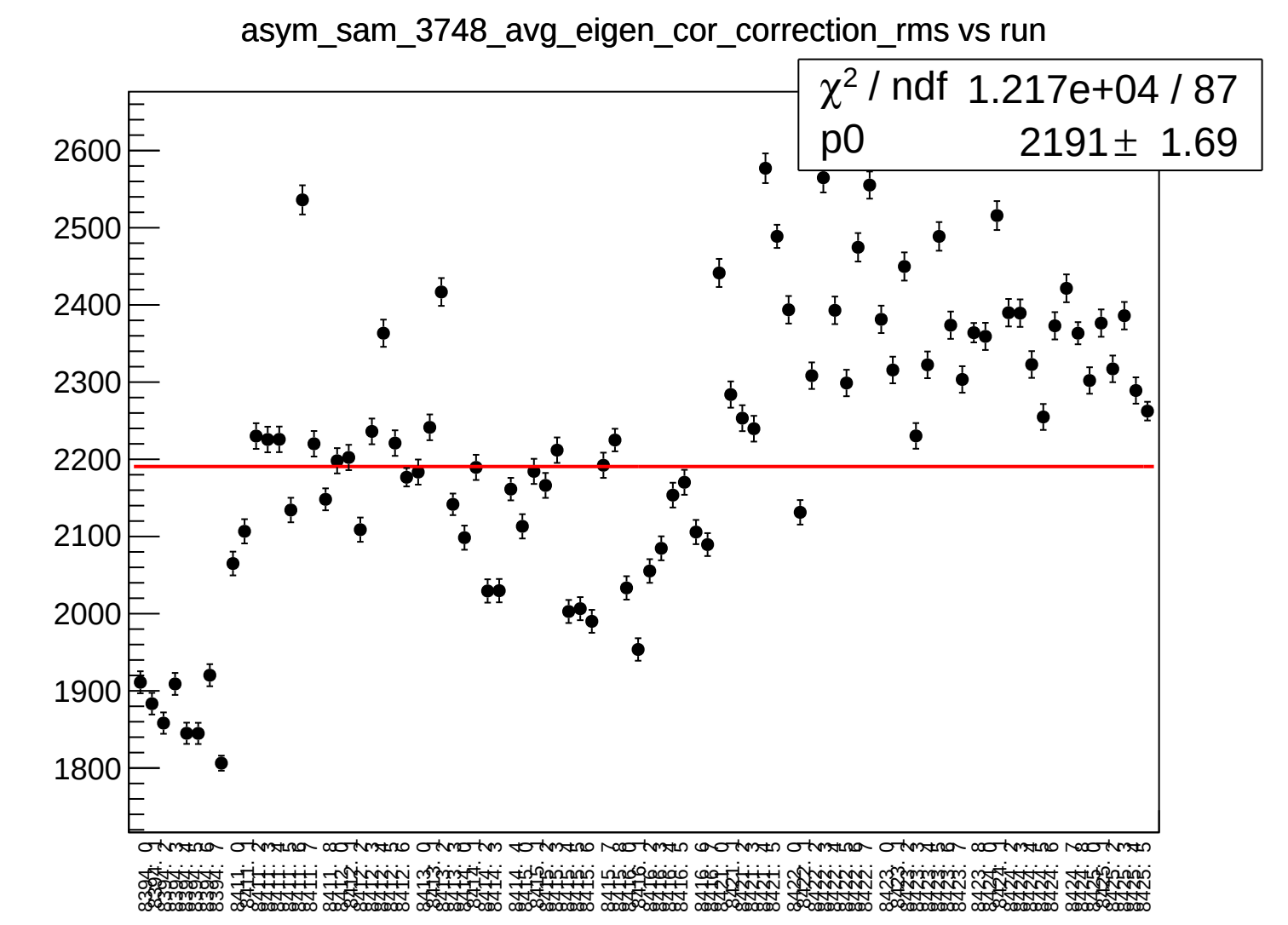

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 77.77 / 87
p0 576.6 ± 164.3
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 291.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

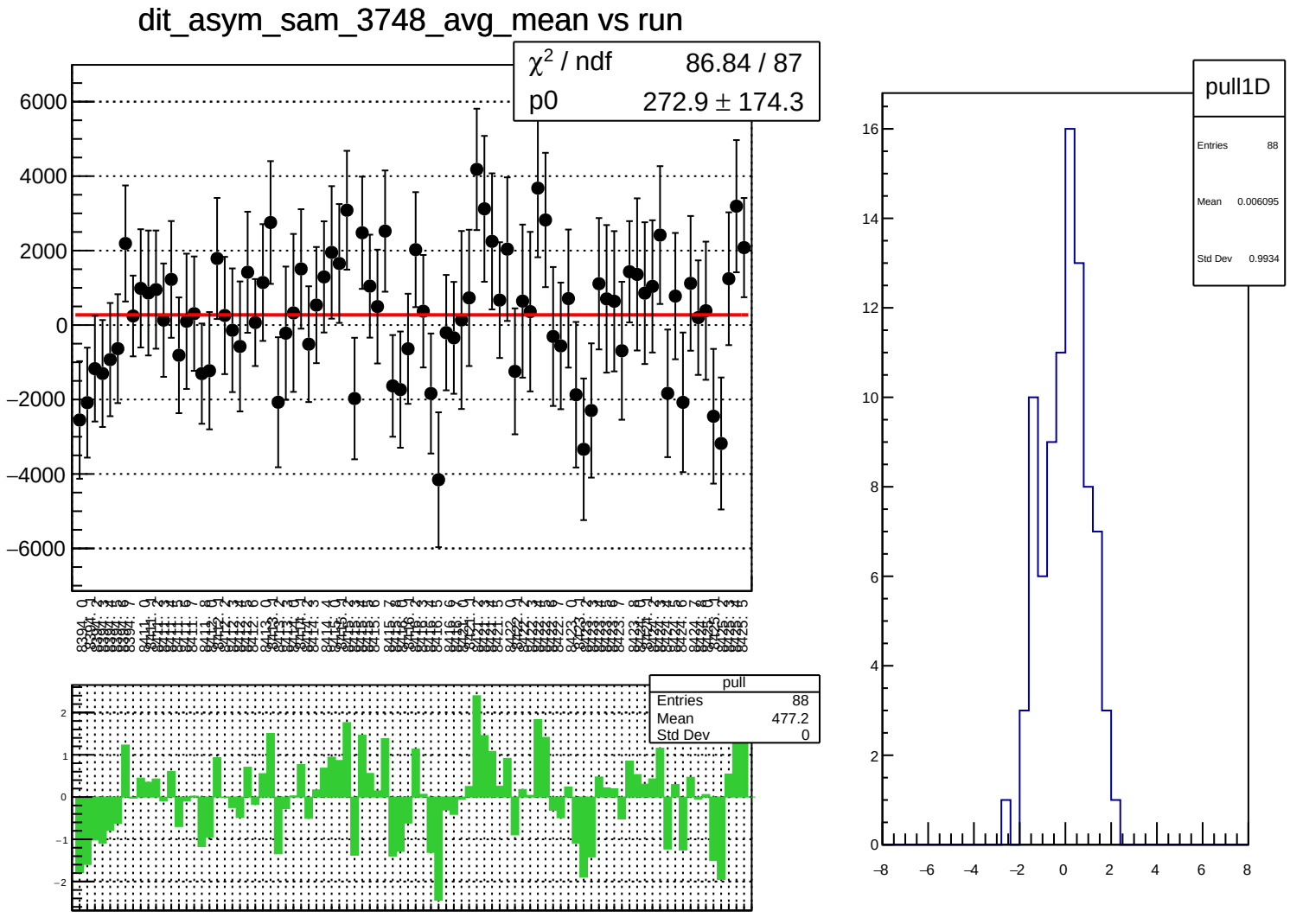

pull1D
Entries 88
Mean 0.01513
Std Dev 0.94
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

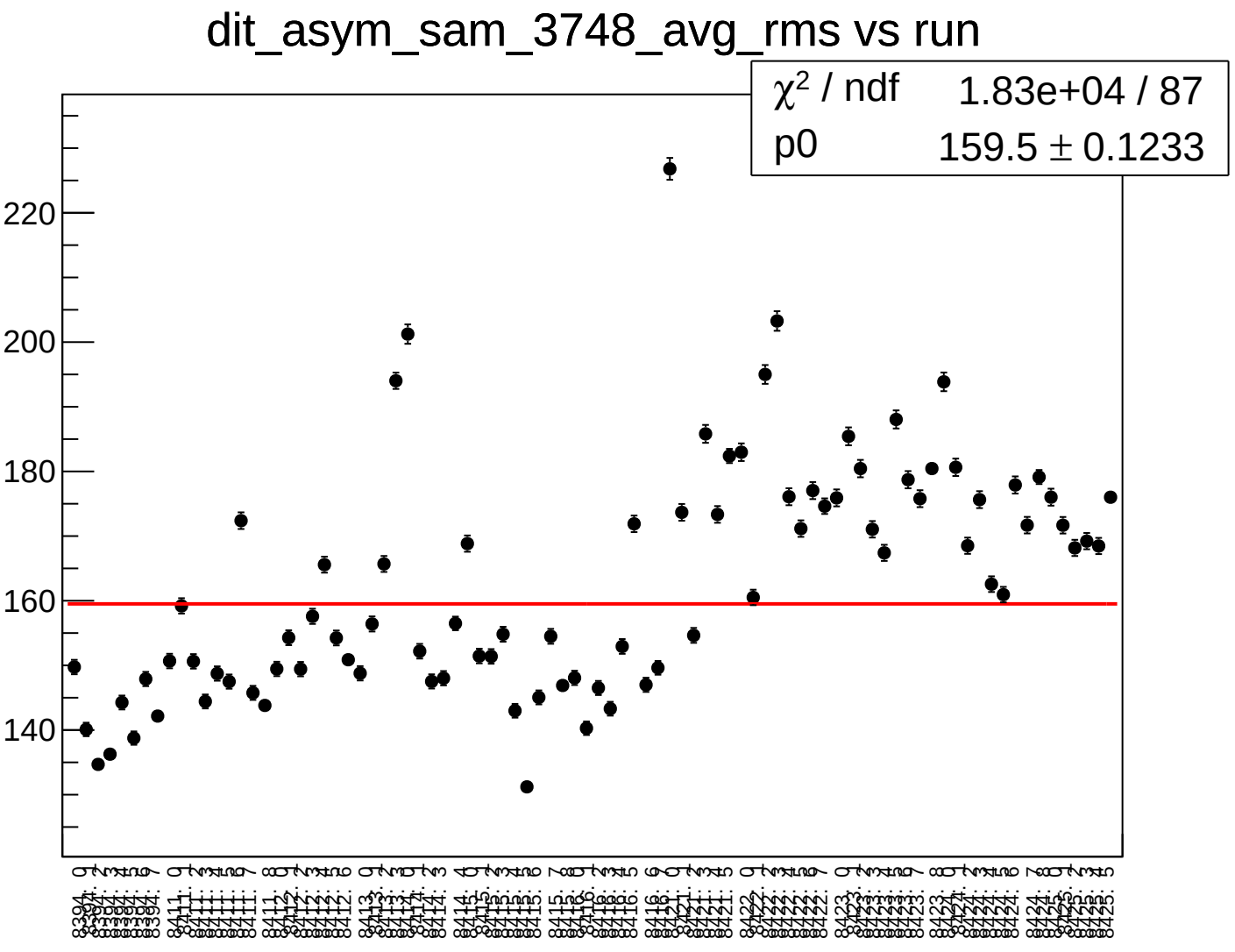

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 2.089e+04 / 87
p0 150.2 ± 0.1162
200
190
180
170
160
150
140
130
120

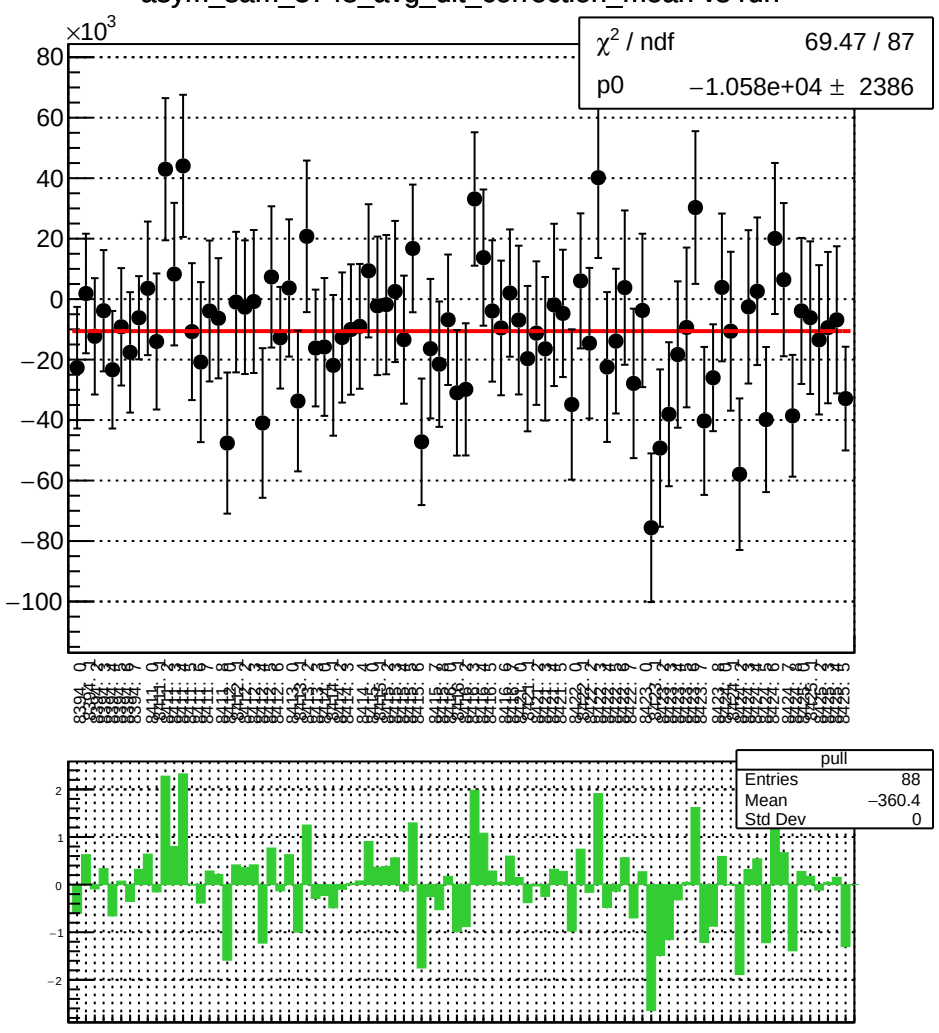

asym_sam_3748_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 69.08 / 87
p0 −1.031e+04 ± 2390
pull
Entries 88
Mean −314.7
Std Dev 0

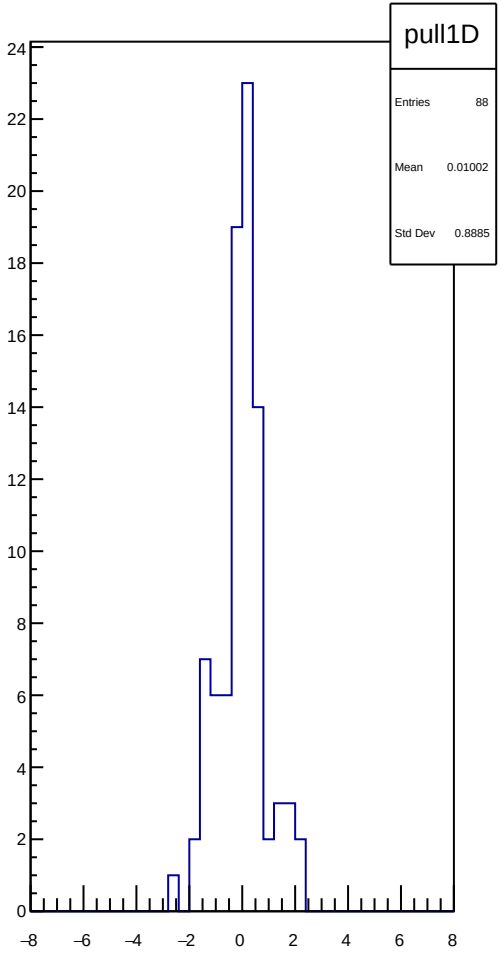

pull1D
Entries 88
Mean 0.01117
Std Dev 0.8859

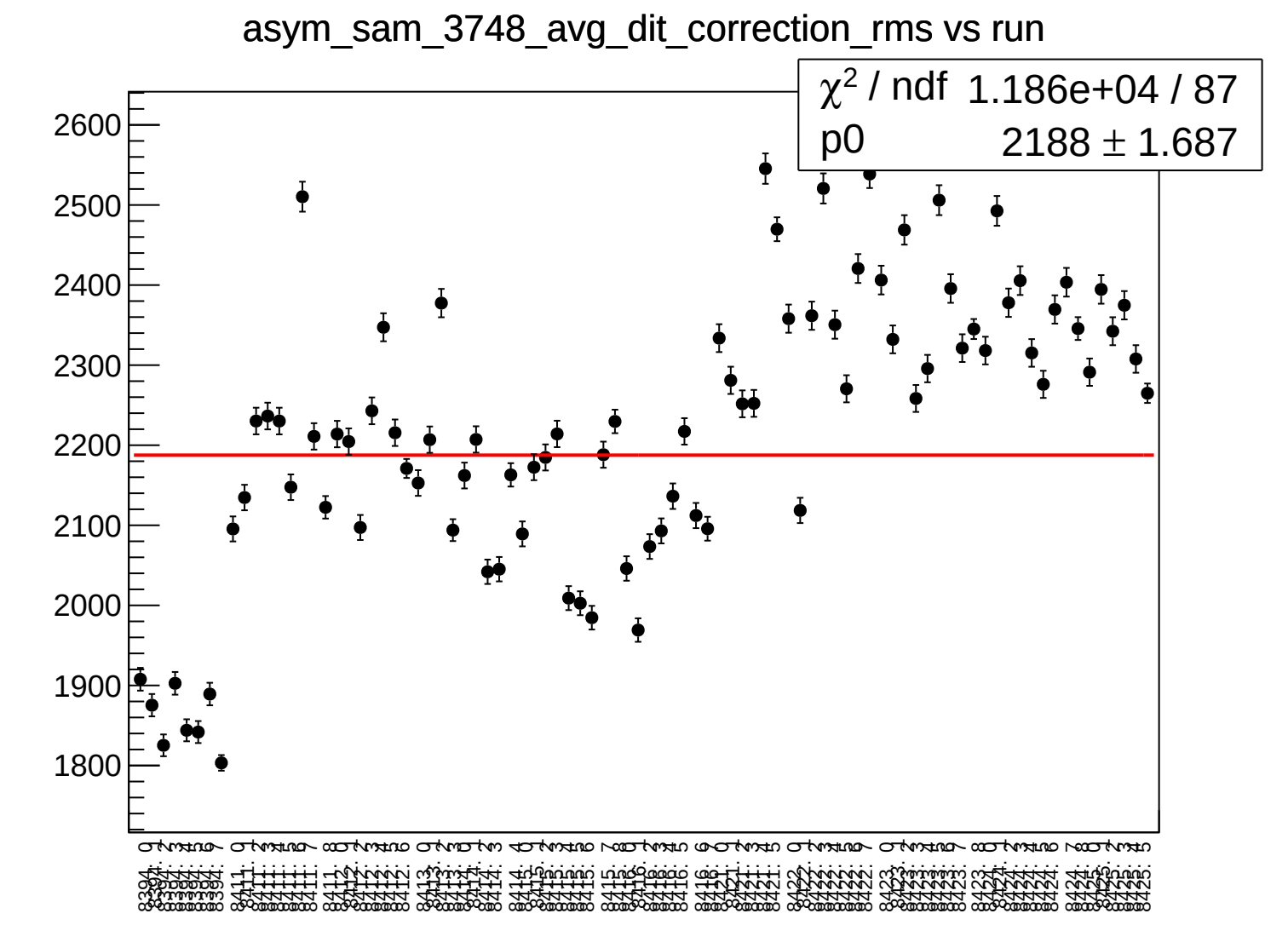

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.217e+04 / 87
p0 2191 ± 1.69
2600
2500
2400
2300
2200
2100
2000
1900
1800

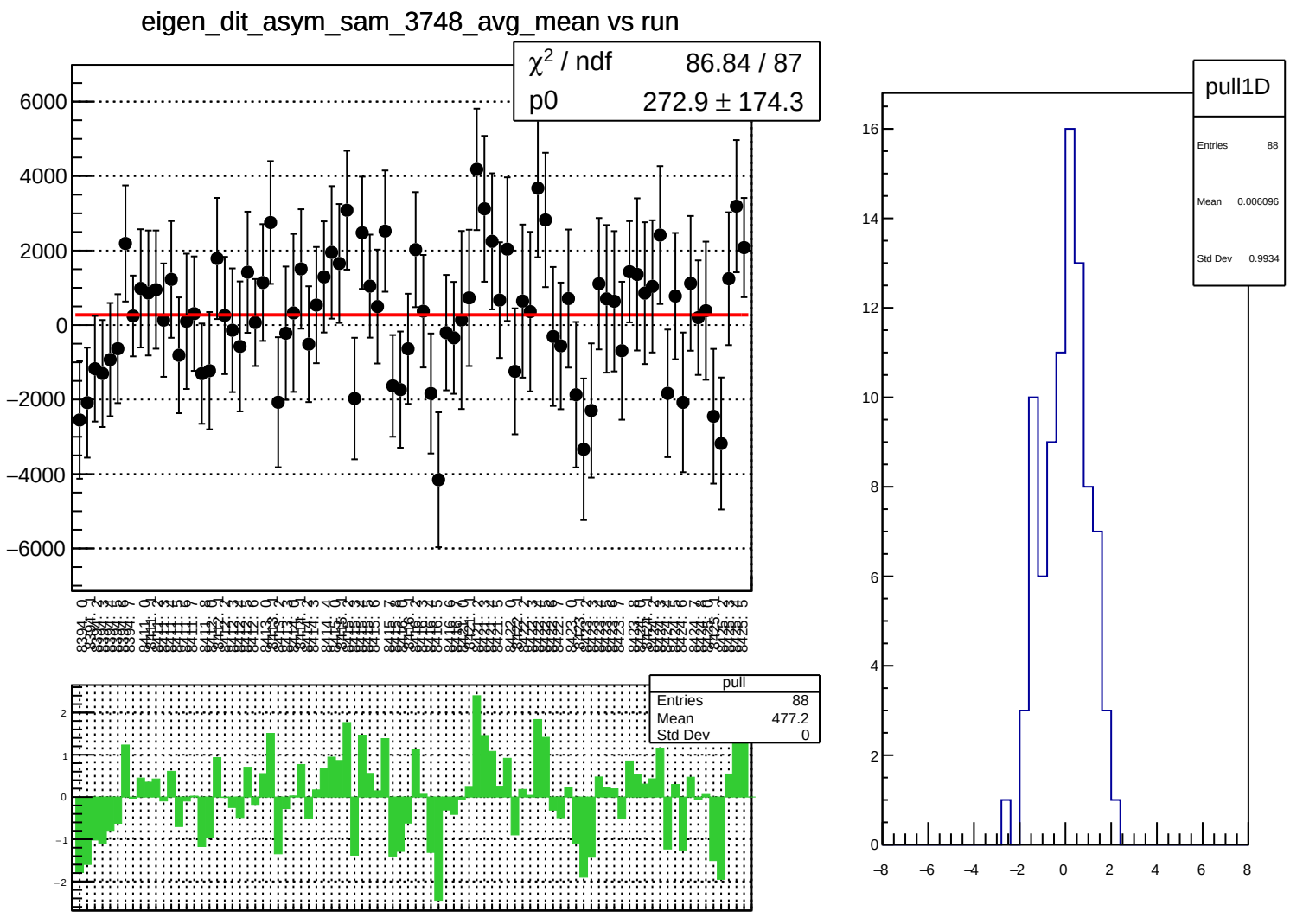

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 86.84 / 87
p0 272.9 ± 174.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 477.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.006095
Std Dev 0.9934
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

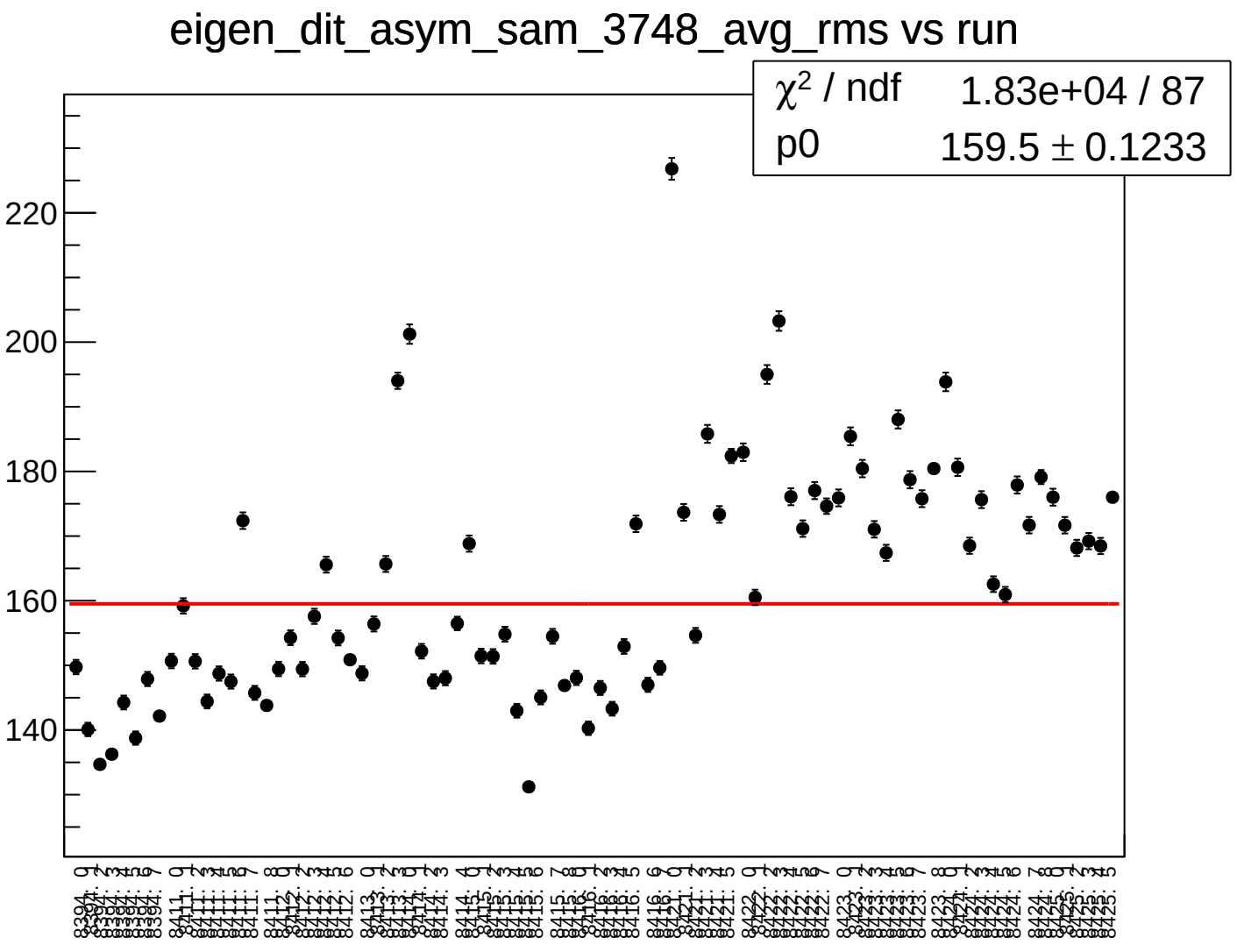

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1.83e+04 / 87
p0 159.5 ± 0.1233
220
200
180
160
140

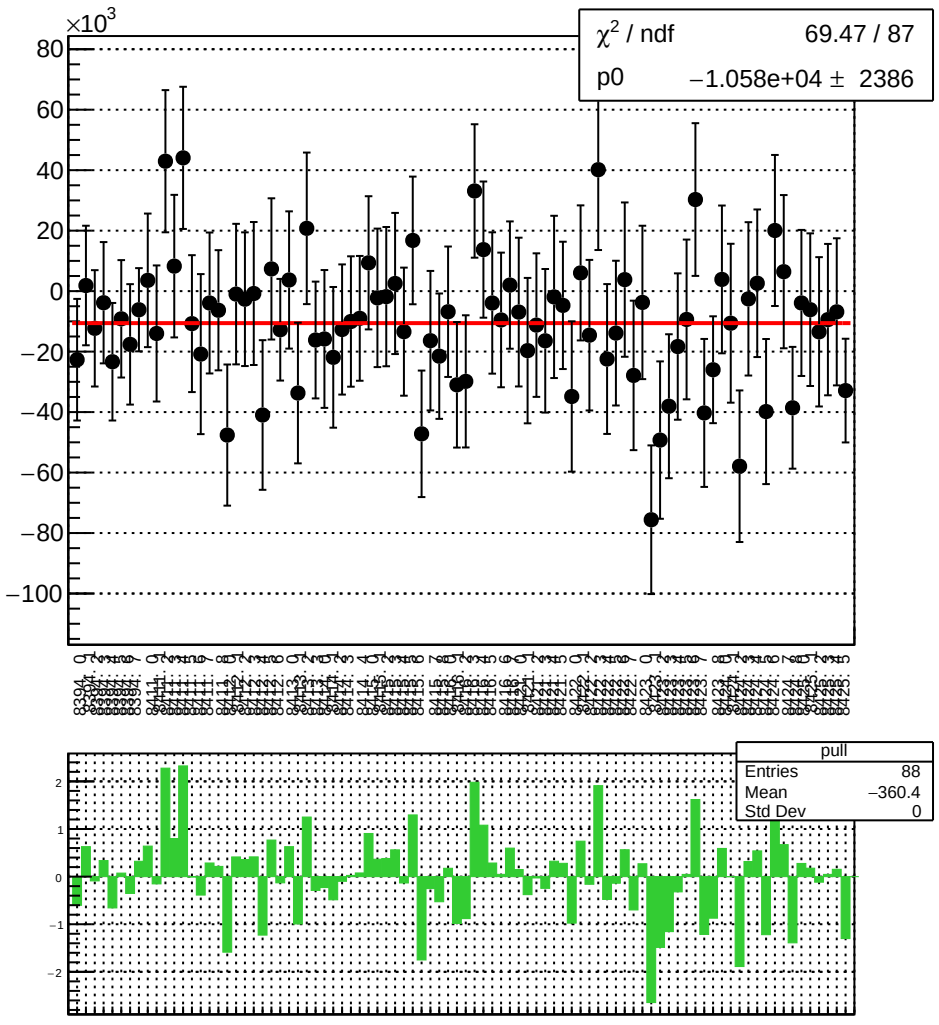

asym_sam_3748_avg_dit_correction_mean vs run
×10^3
χ² / ndf 69.47 / 87
p0 −1.058e+04 ± 2386
pull
Entries 88
Mean −360.4
Std Dev 0

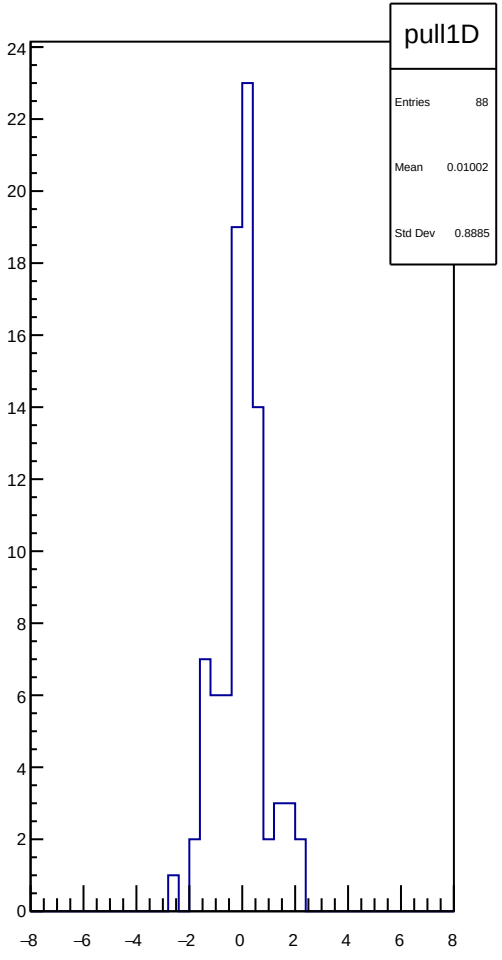

pull1D
Entries 88
Mean 0.01002
Std Dev 0.8885

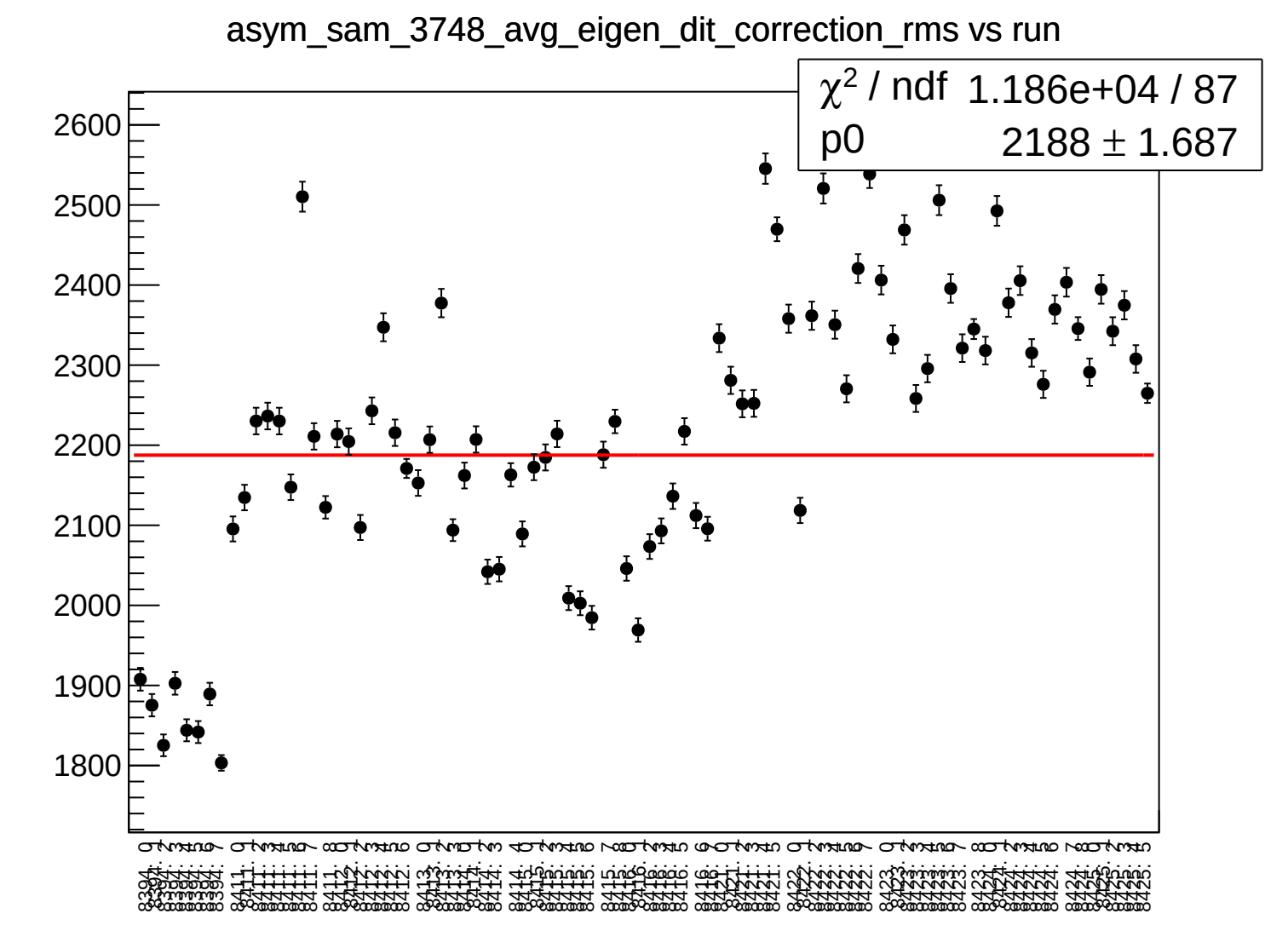

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 1.186e+04 / 87
p0 2188 ± 1.687
2600
2500
2400
2300
2200
2100
2000
1900
1800

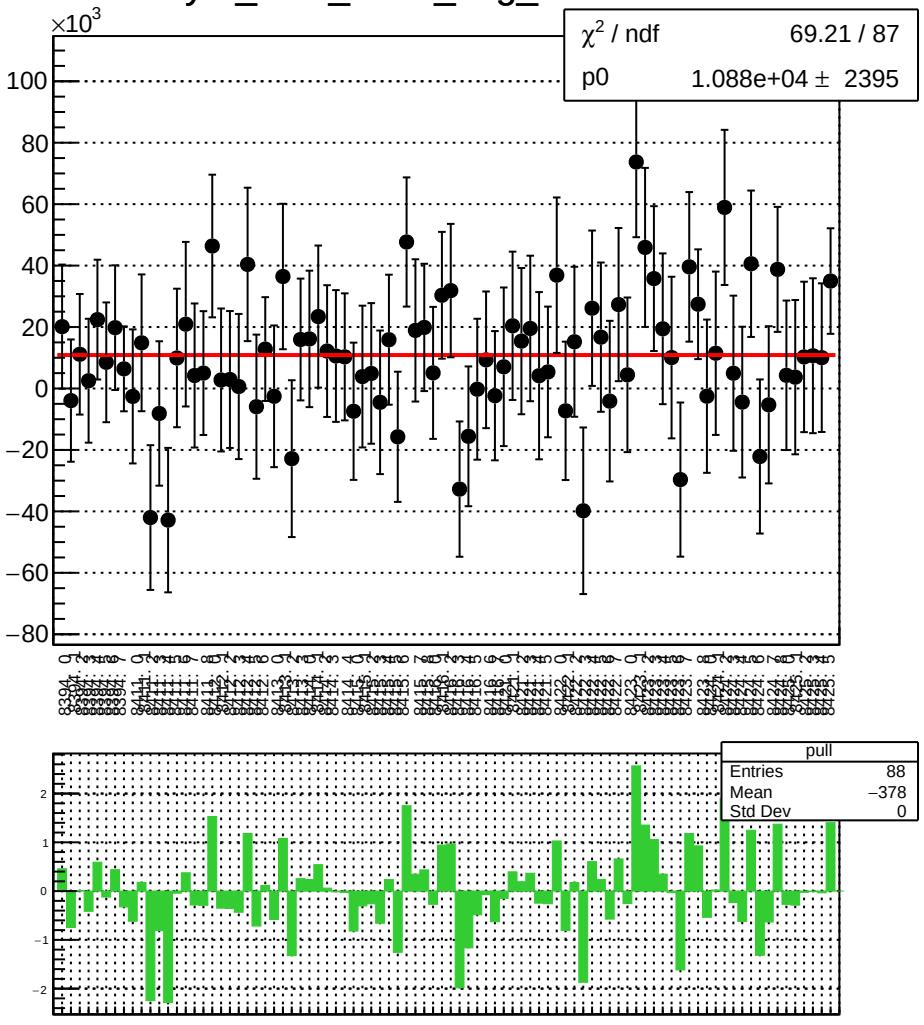

eigen_dit_asym_sam_3748_avg_mean vs run
χ^2 / ndf 86.84 / 87
p0 272.9 ± 174.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 477.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.006096
Std Dev 0.9934
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

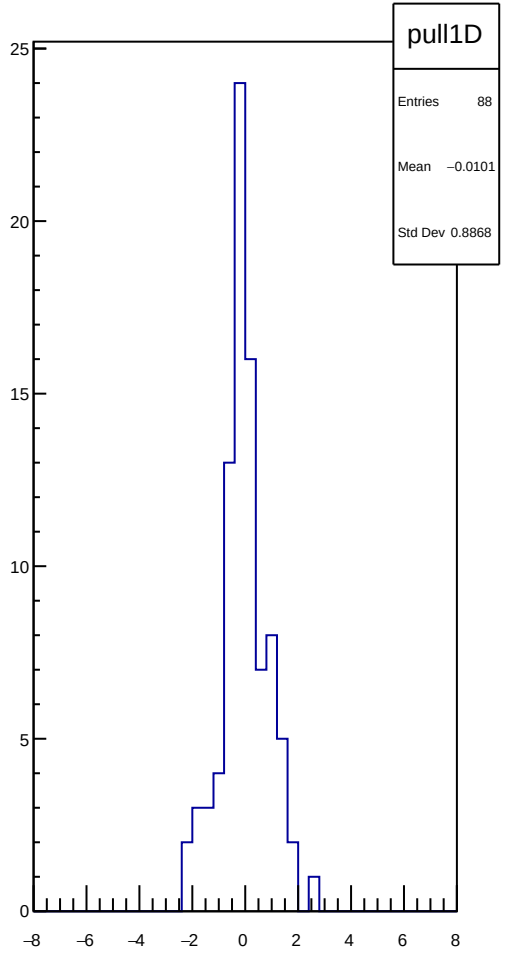

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1.83e+04 / 87
p0 159.5 ± 0.1233
220
200
180
160
140

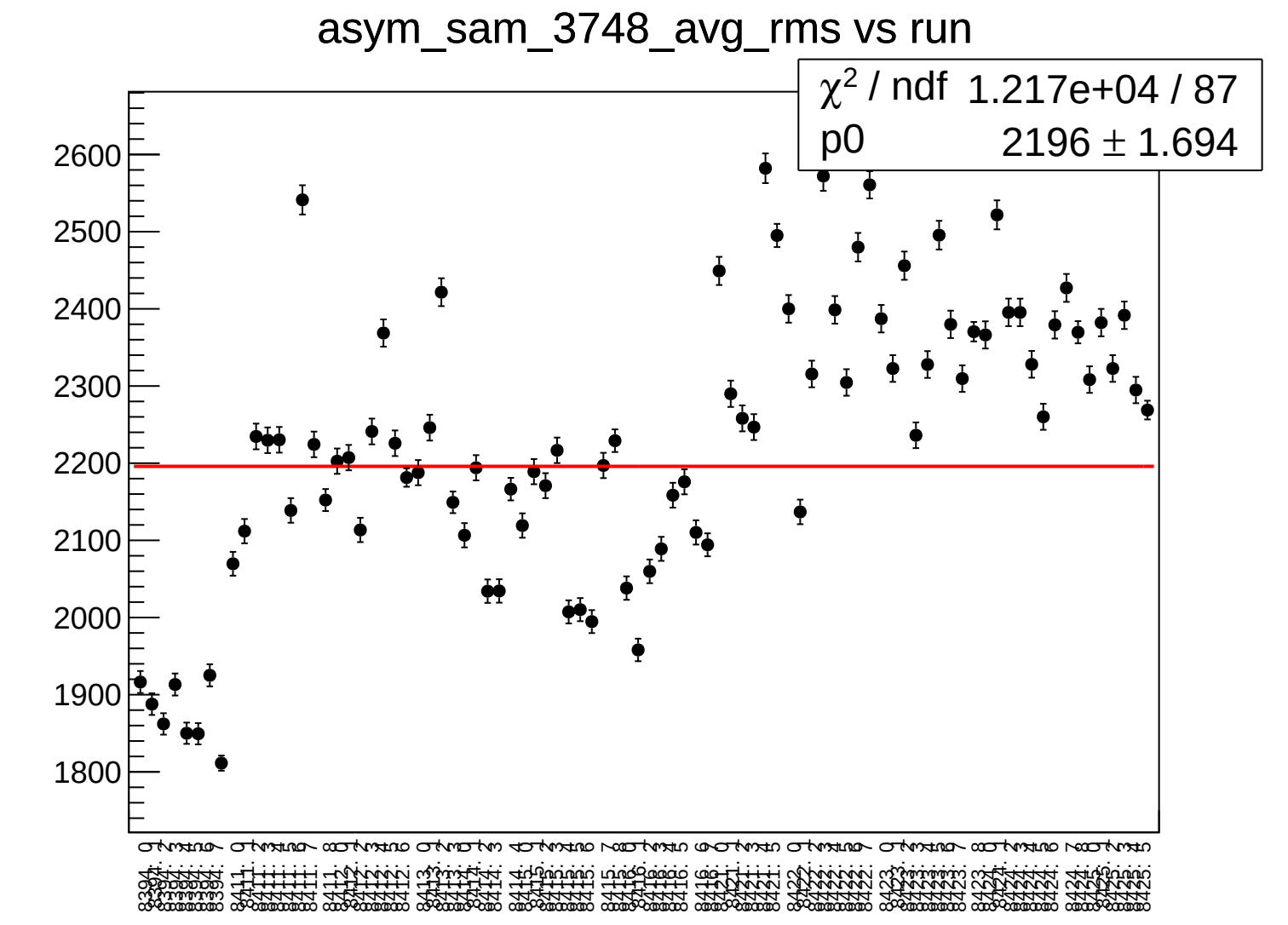

asym_sam_3748_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 69.47 / 87
p0 −1.058e+04 ± 2386
pull
Entries 88
Mean −360.4
Std Dev 0

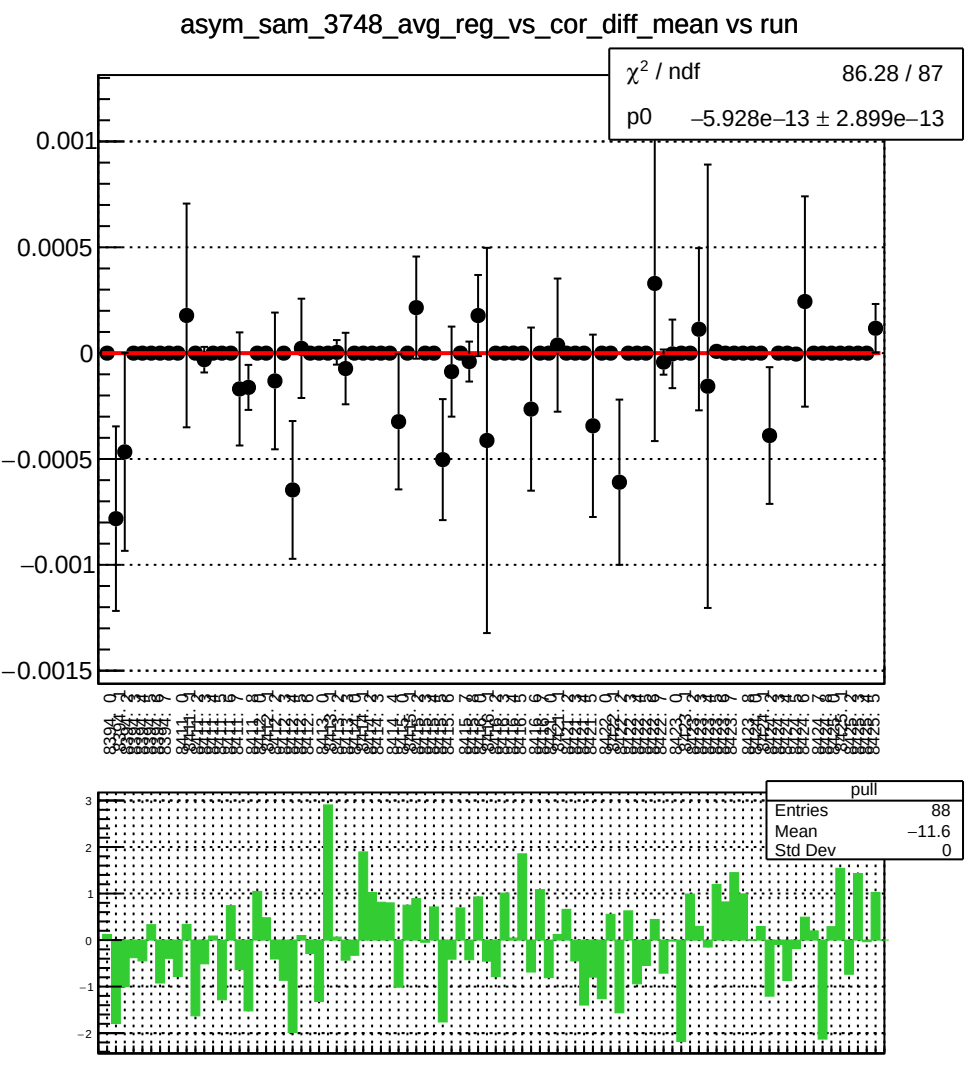

pull1D
Entries 88
Mean 0.01002
Std Dev 0.8885

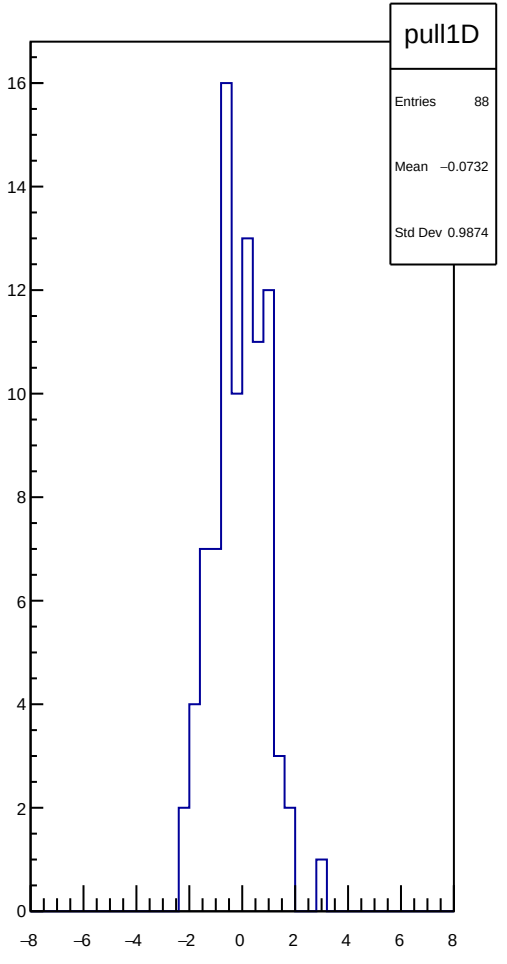

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.186e+04 / 87
p0 2188 ± 1.687
2600
2500
2400
2300
2200
2100
2000
1900
1800

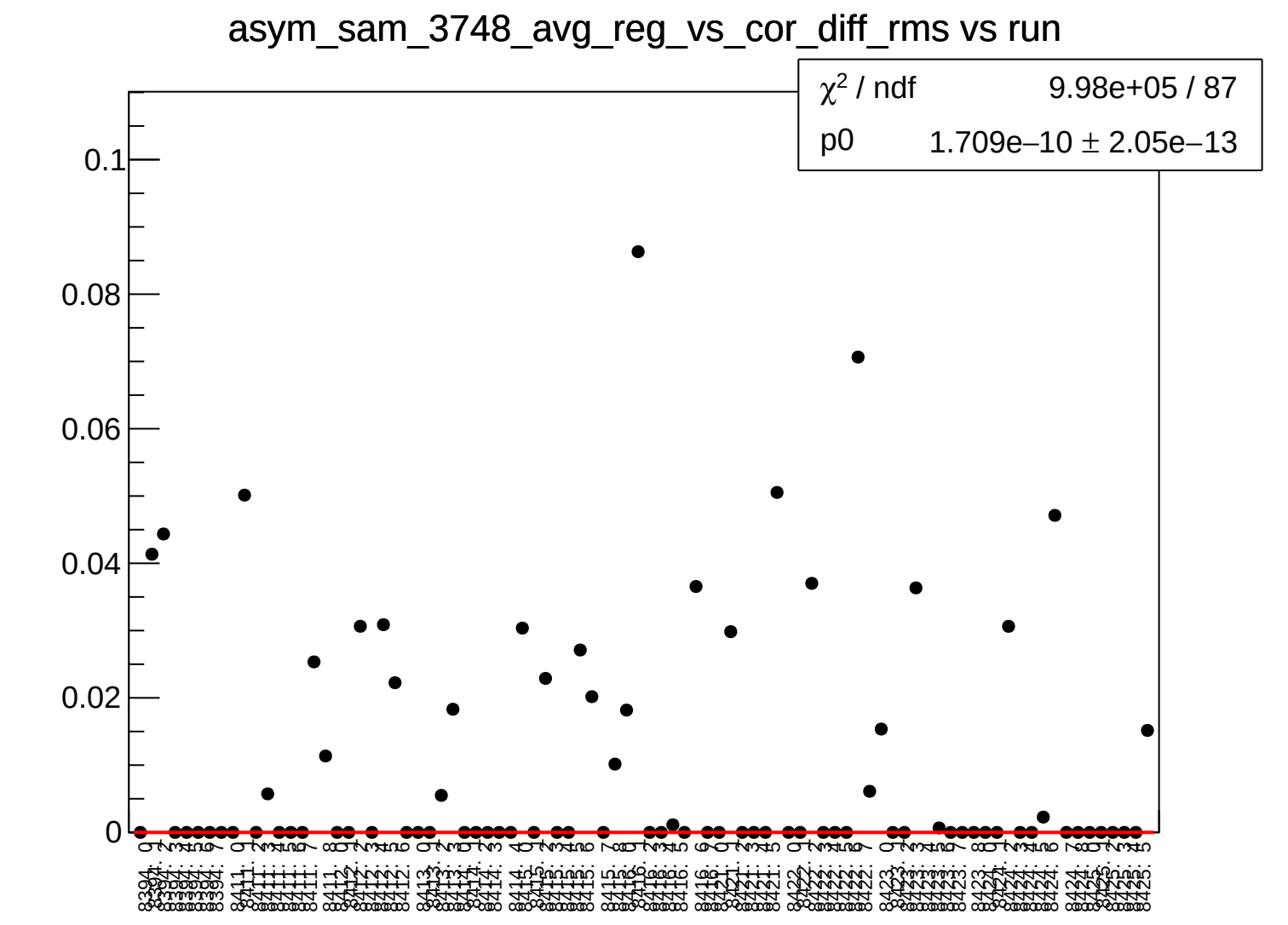

asym_sam_3748_avg_mean vs run
×10^3
χ² / ndf 69.21 / 87
p0 1.088e+04 ± 2395
pull
Entries 88
Mean −378
Std Dev 0

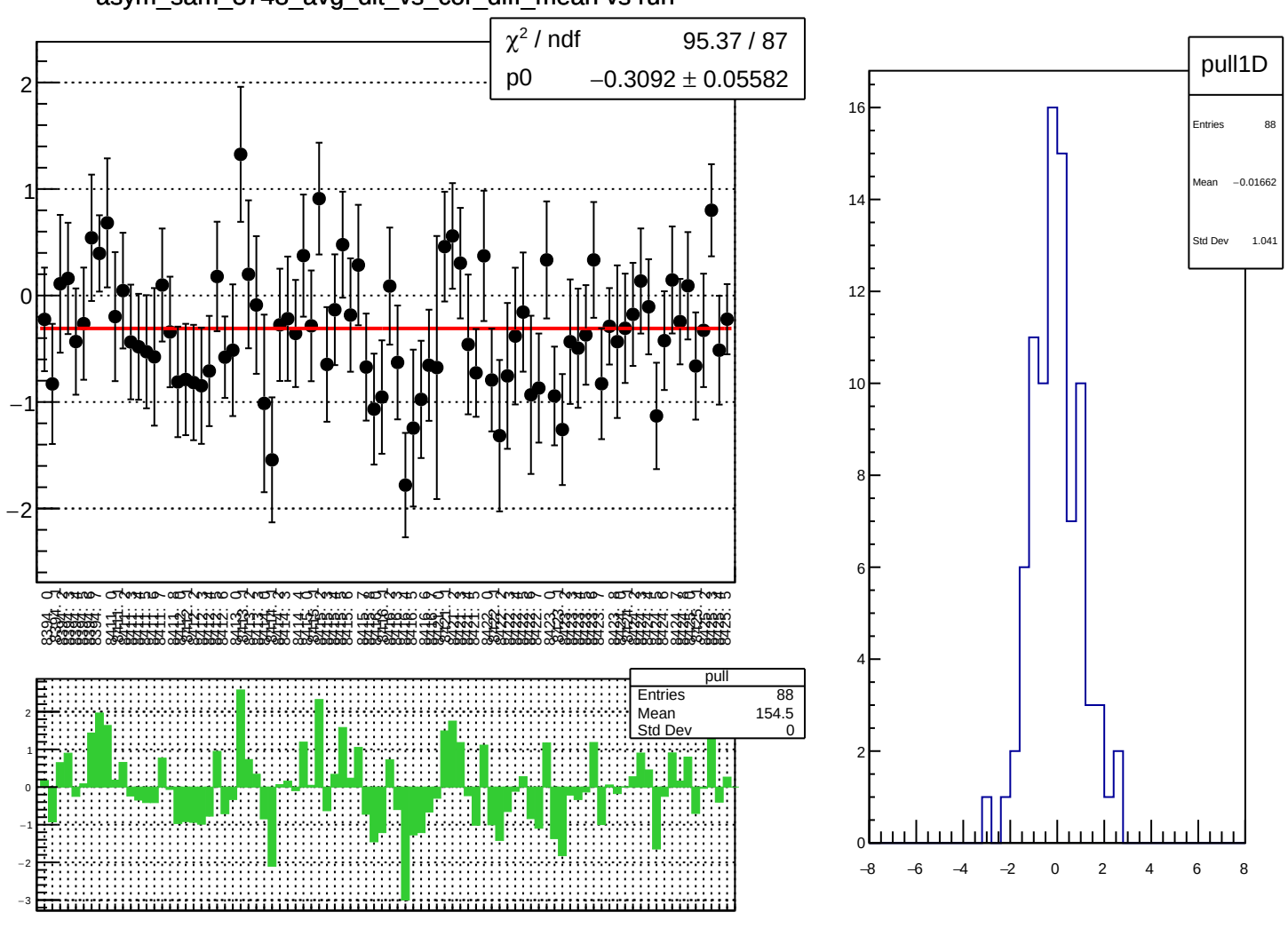

pull1D
Entries 88
Mean −0.0101
Std Dev 0.8868

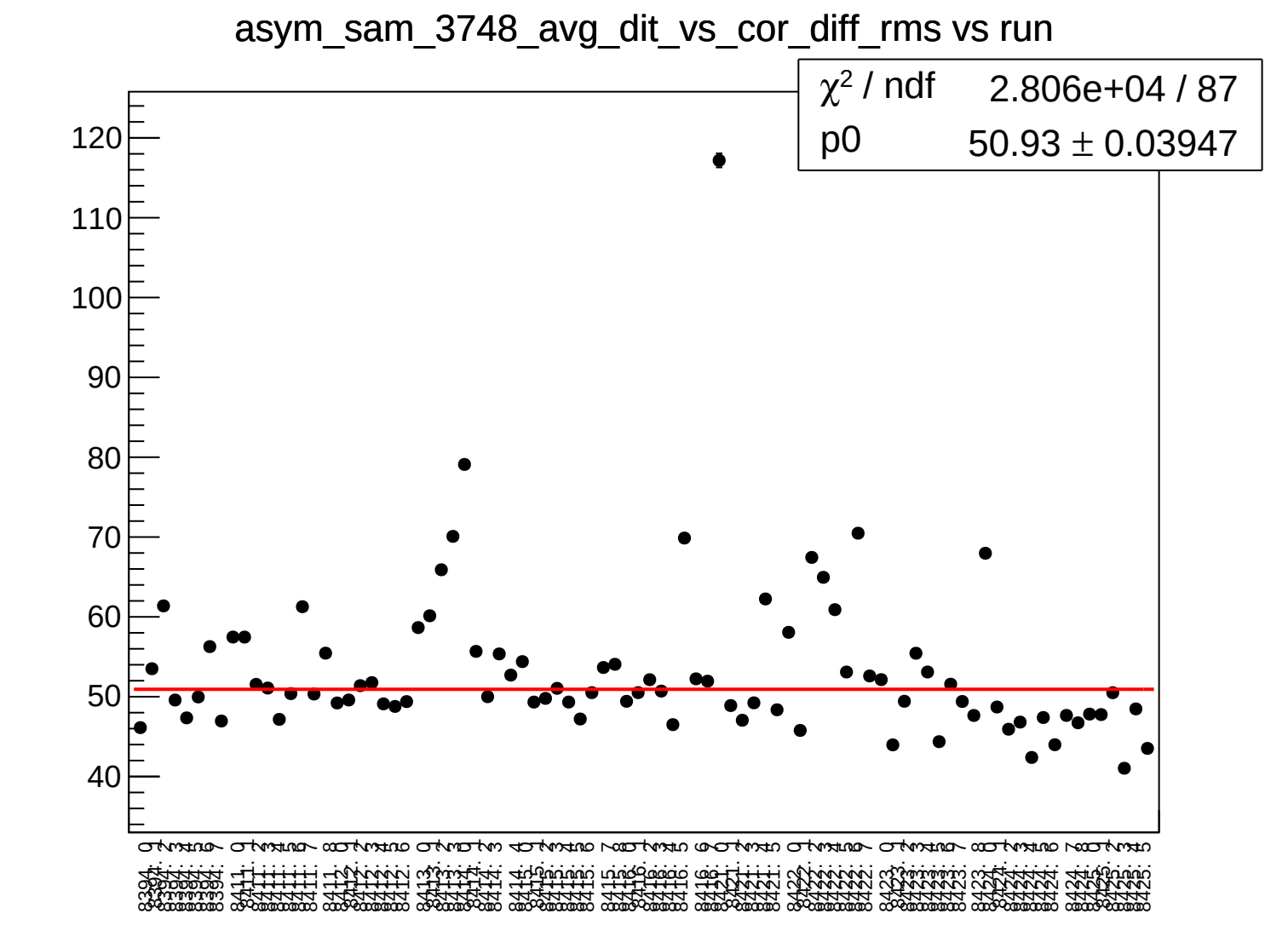

asym_sam_3748_avg_rms vs run
χ^2 / ndf 1.217e+04 / 87
p0 2196 ± 1.694
2600
2500
2400
2300
2200
2100
2000
1900
1800

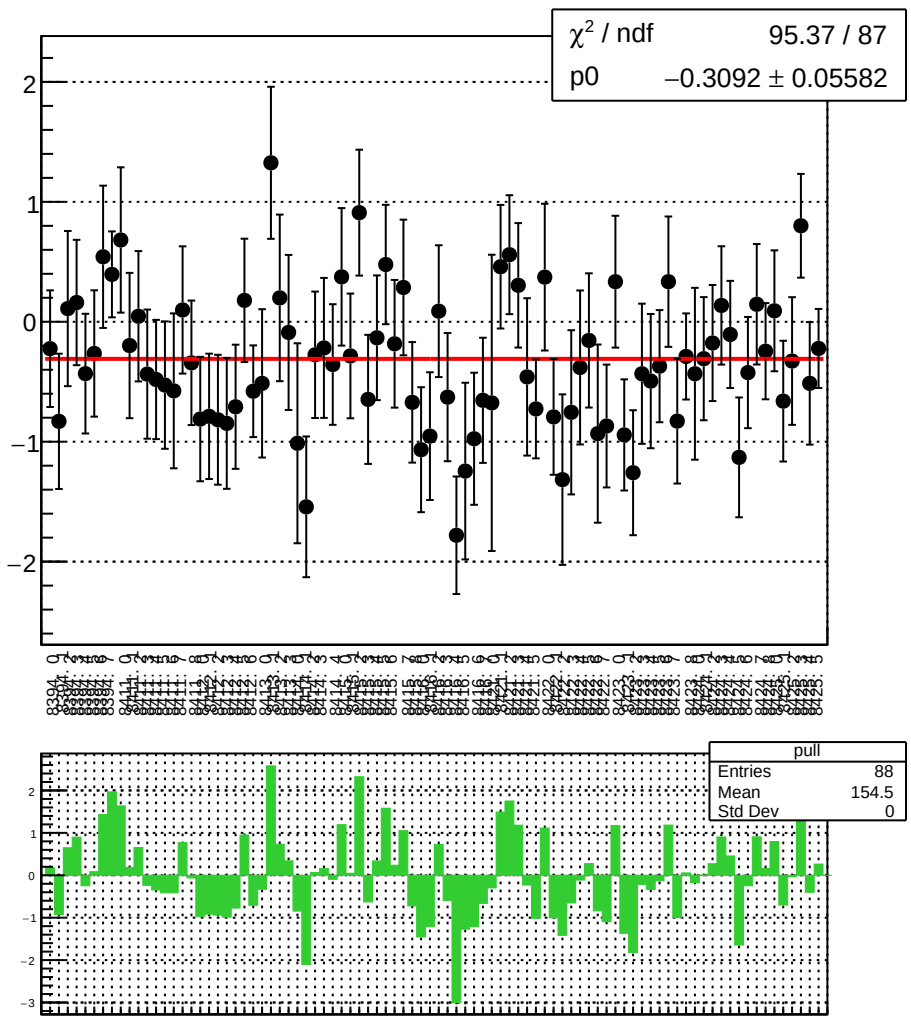

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.28 / 87
p0 −5.928e−13 ± 2.899e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 88
Mean −11.6
Std Dev 0
3
2
1
0
−1
−2

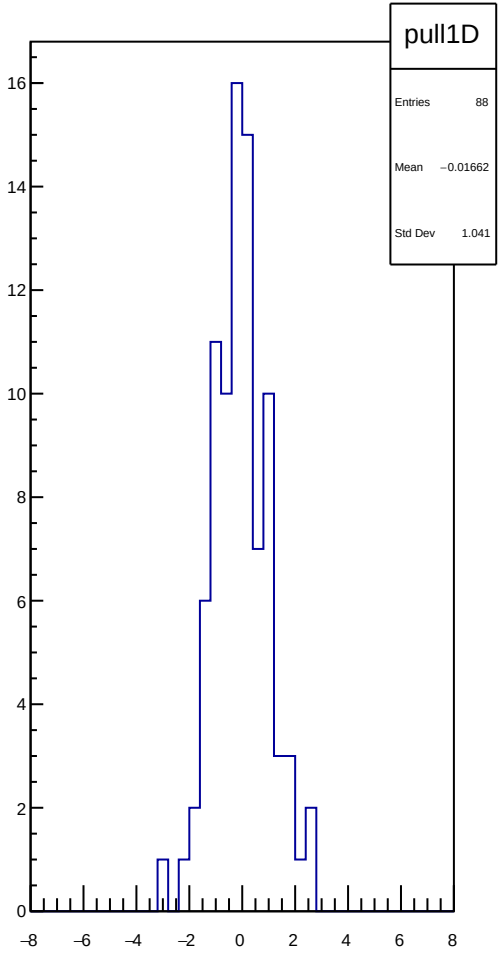

pull1D
Entries 88
Mean −0.0732
Std Dev 0.9874
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

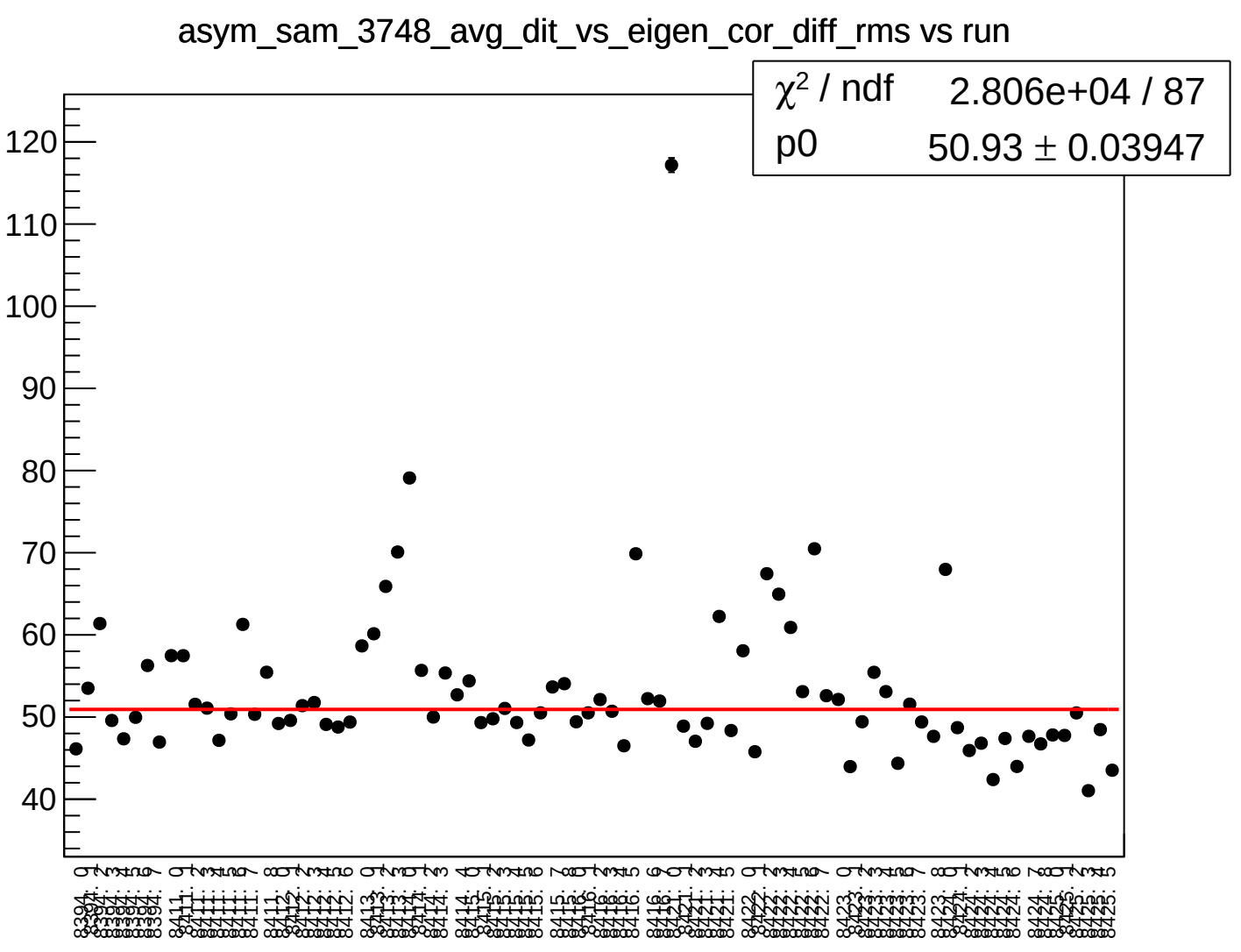

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.98e+05 / 87
p0 1.709e−10 ± 2.05e−13
0.1
0.08
0.06
0.04
0.02
0

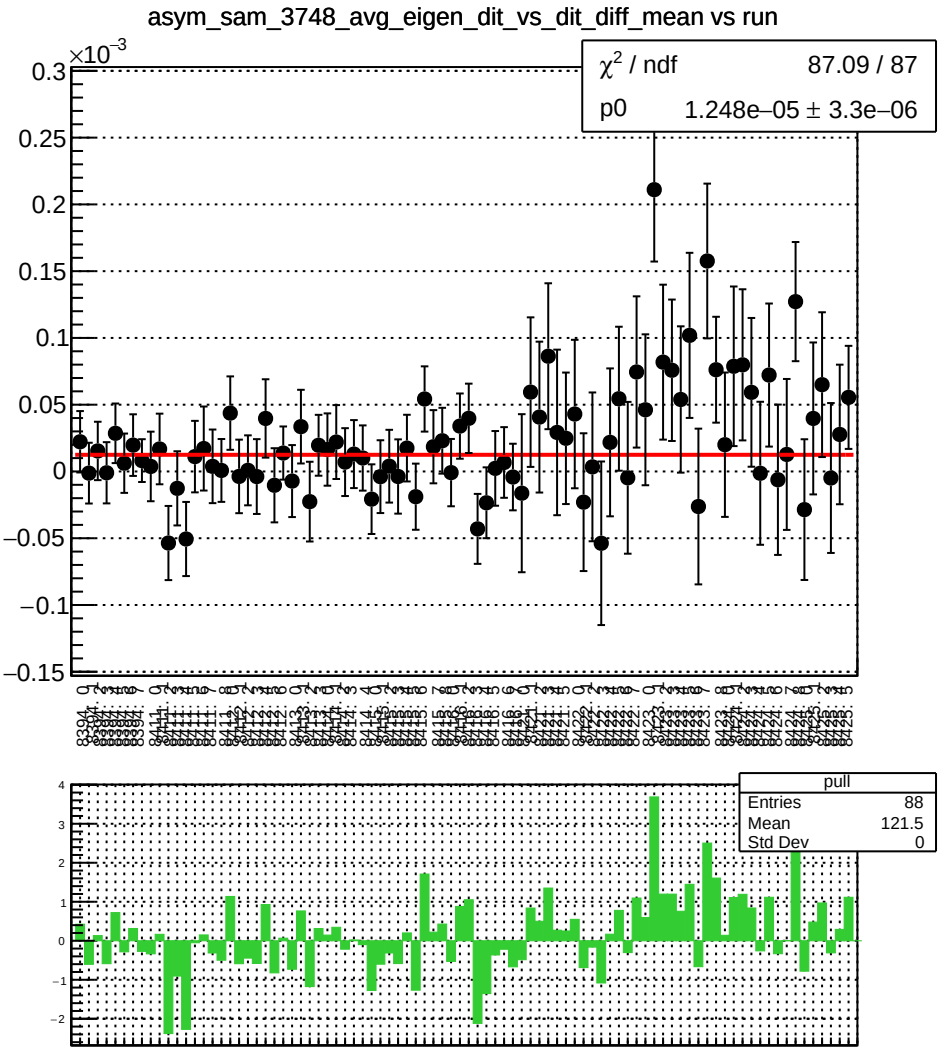

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ^2 / ndf 95.37 / 87
p0 −0.3092 ± 0.05582
pull
Entries 88
Mean 154.5
Std Dev 0
pull1D
Entries 88
Mean −0.01662
Std Dev 1.041

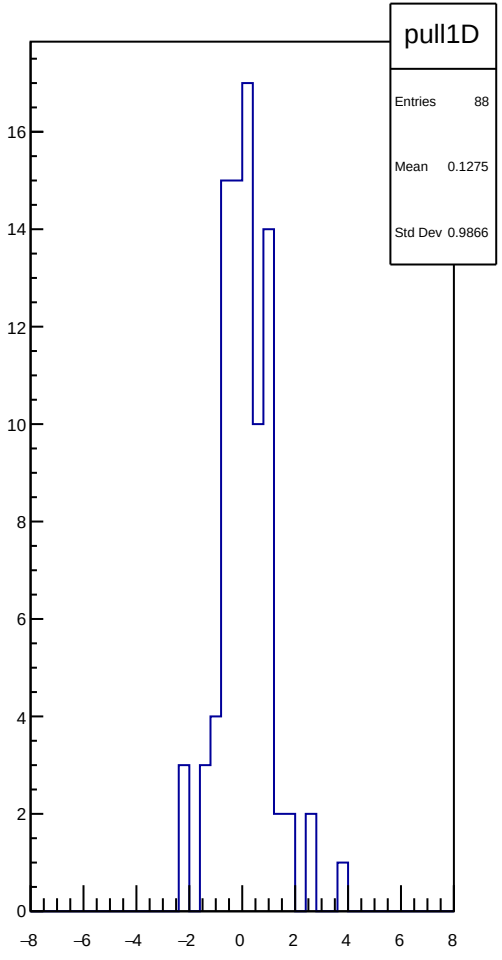

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.806e+04 / 87
p0 50.93 ± 0.03947
120
110
100
90
80
70
60
50
40

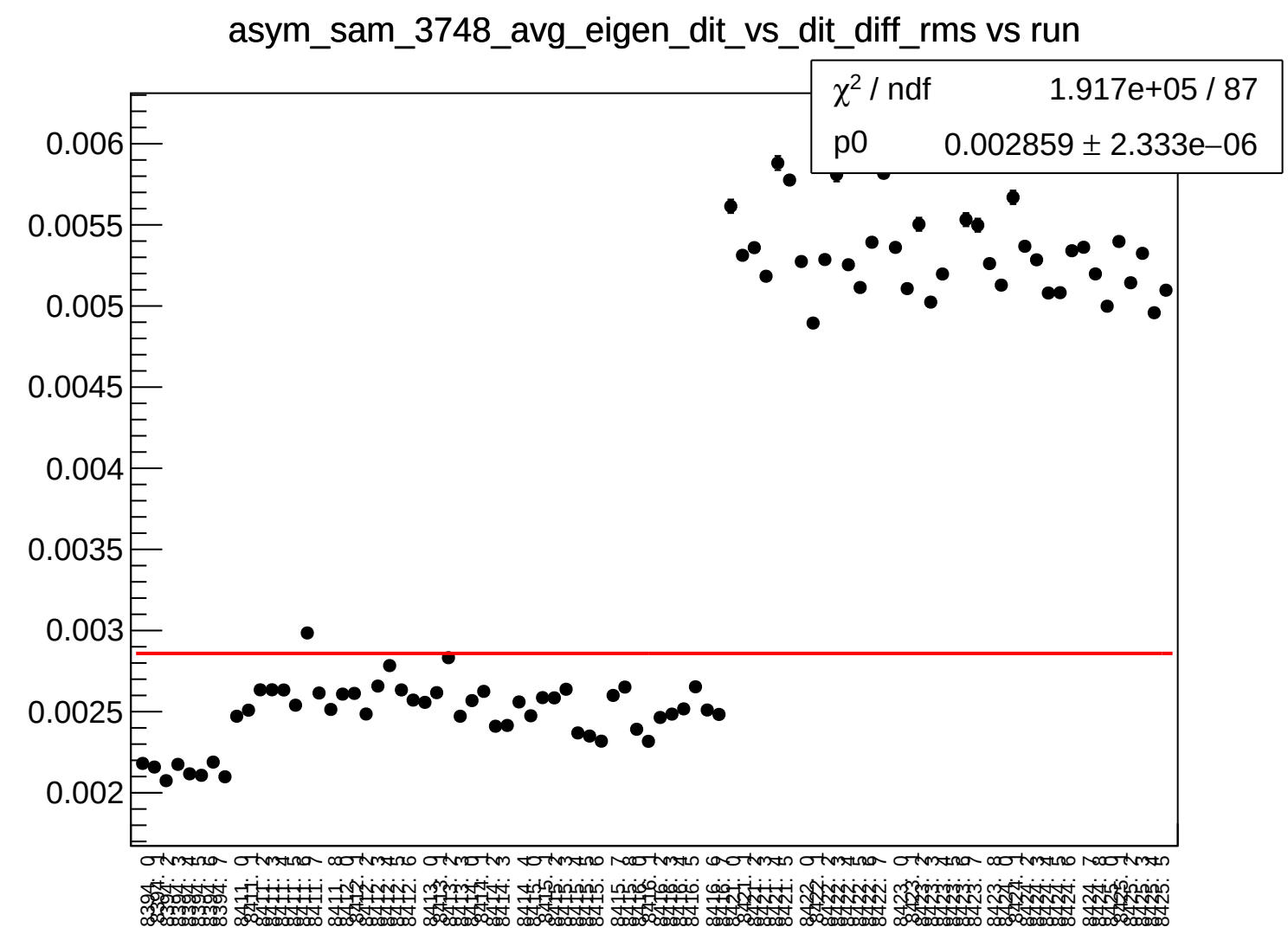

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.37 / 87
p0 −0.3092 ± 0.05582
pull
Entries 88
Mean 154.5
Std Dev 0

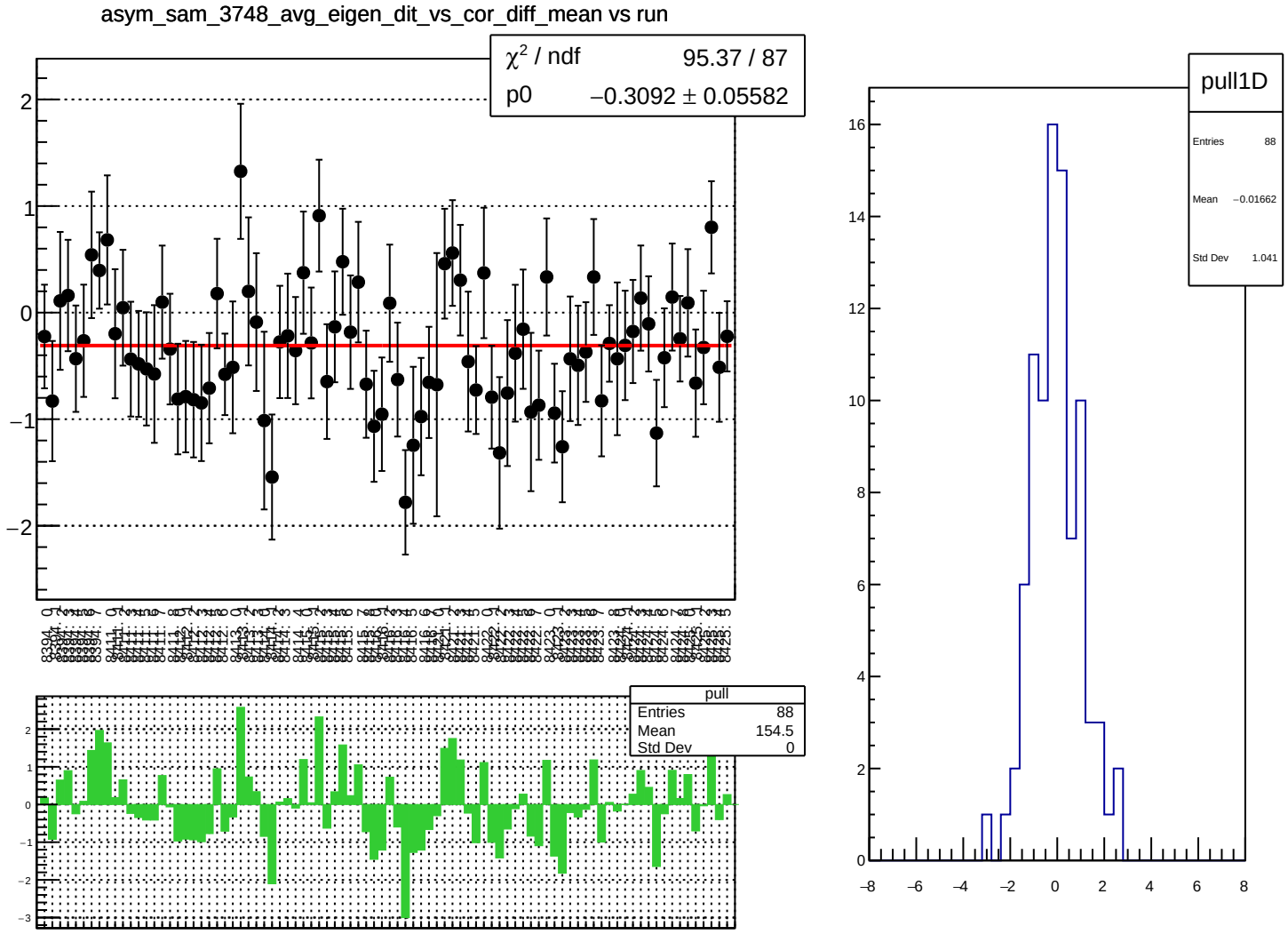

pull1D
Entries 88
Mean −0.01662
Std Dev 1.041

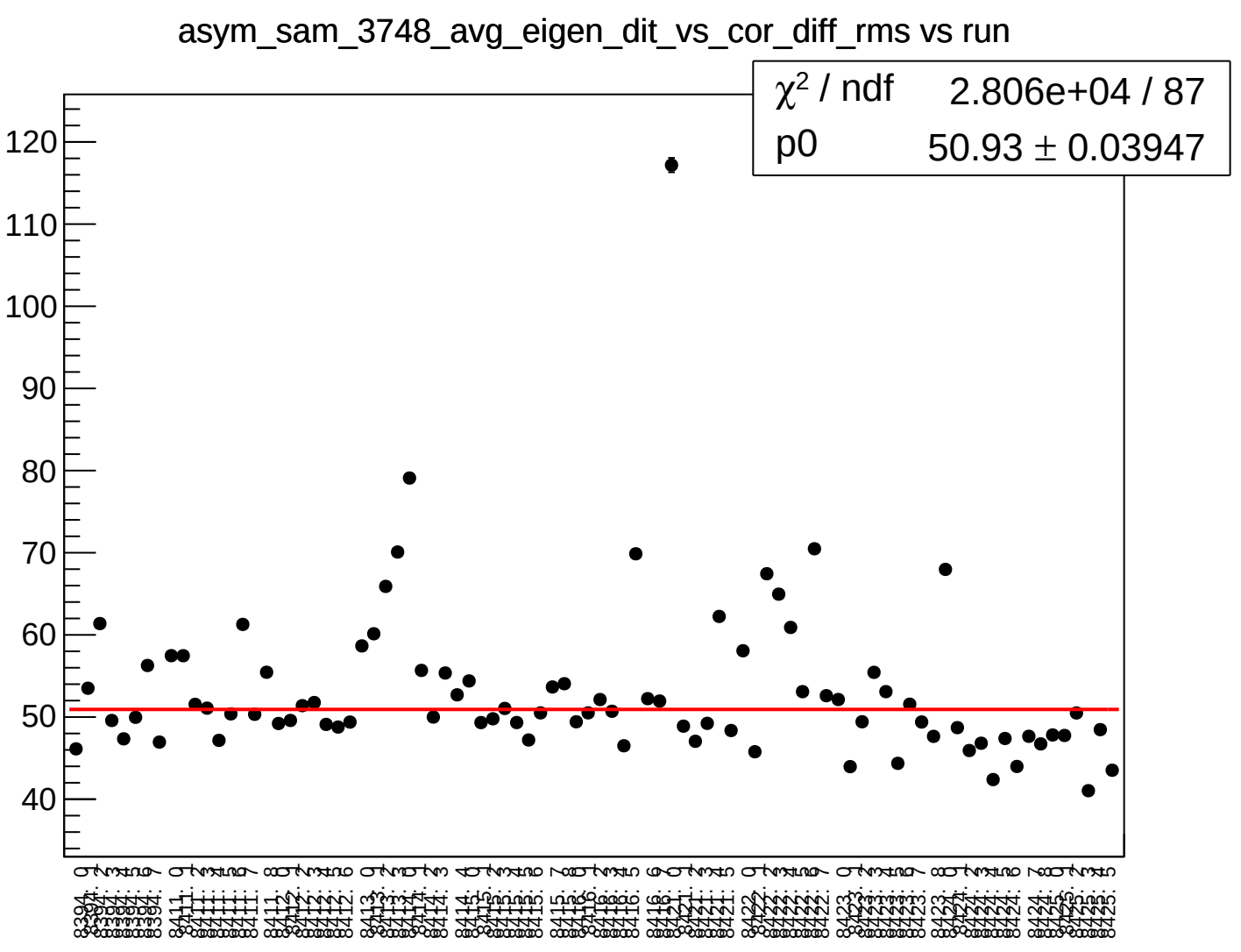

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.806e+04 / 87
p0 50.93 ± 0.03947
120
110
100
90
80
70
60
50
40

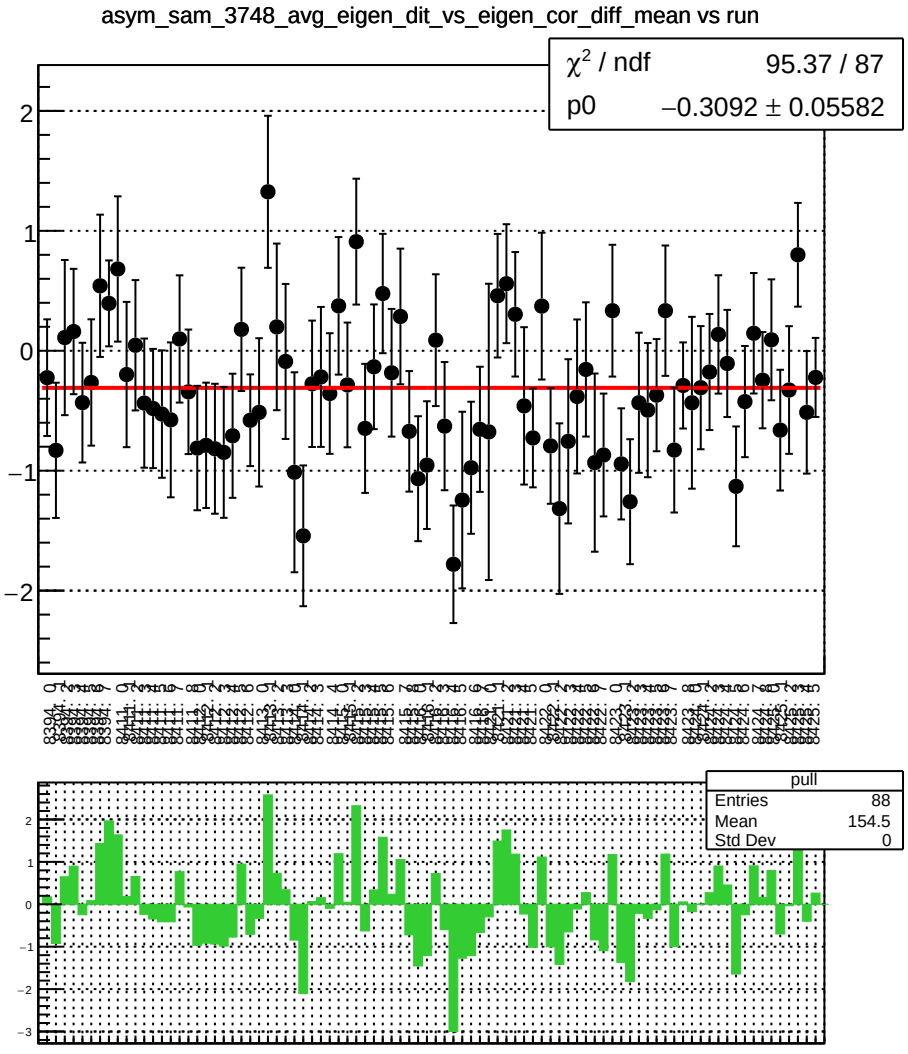

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.09 / 87
p0 1.248e−05 ± 3.3e−06
pull
Entries 88
Mean 121.5
Std Dev 0

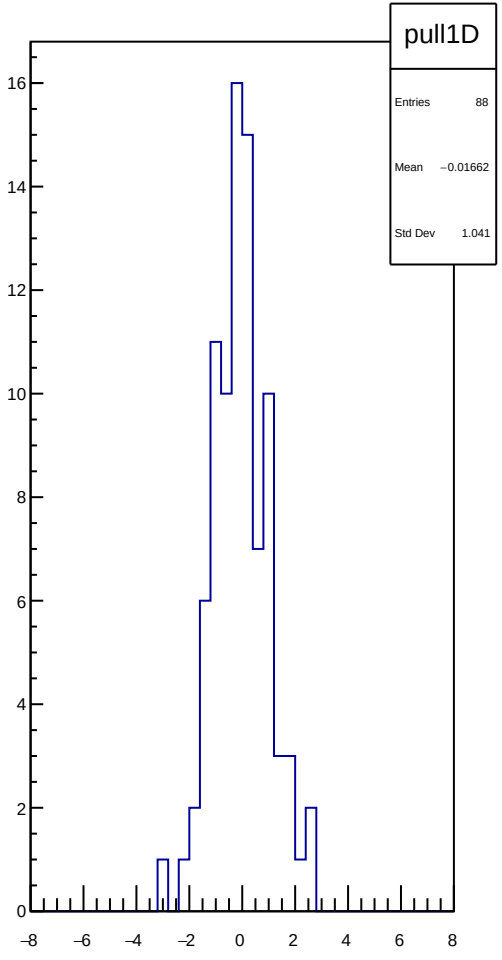

pull1D
Entries 88
Mean 0.1275
Std Dev 0.9866

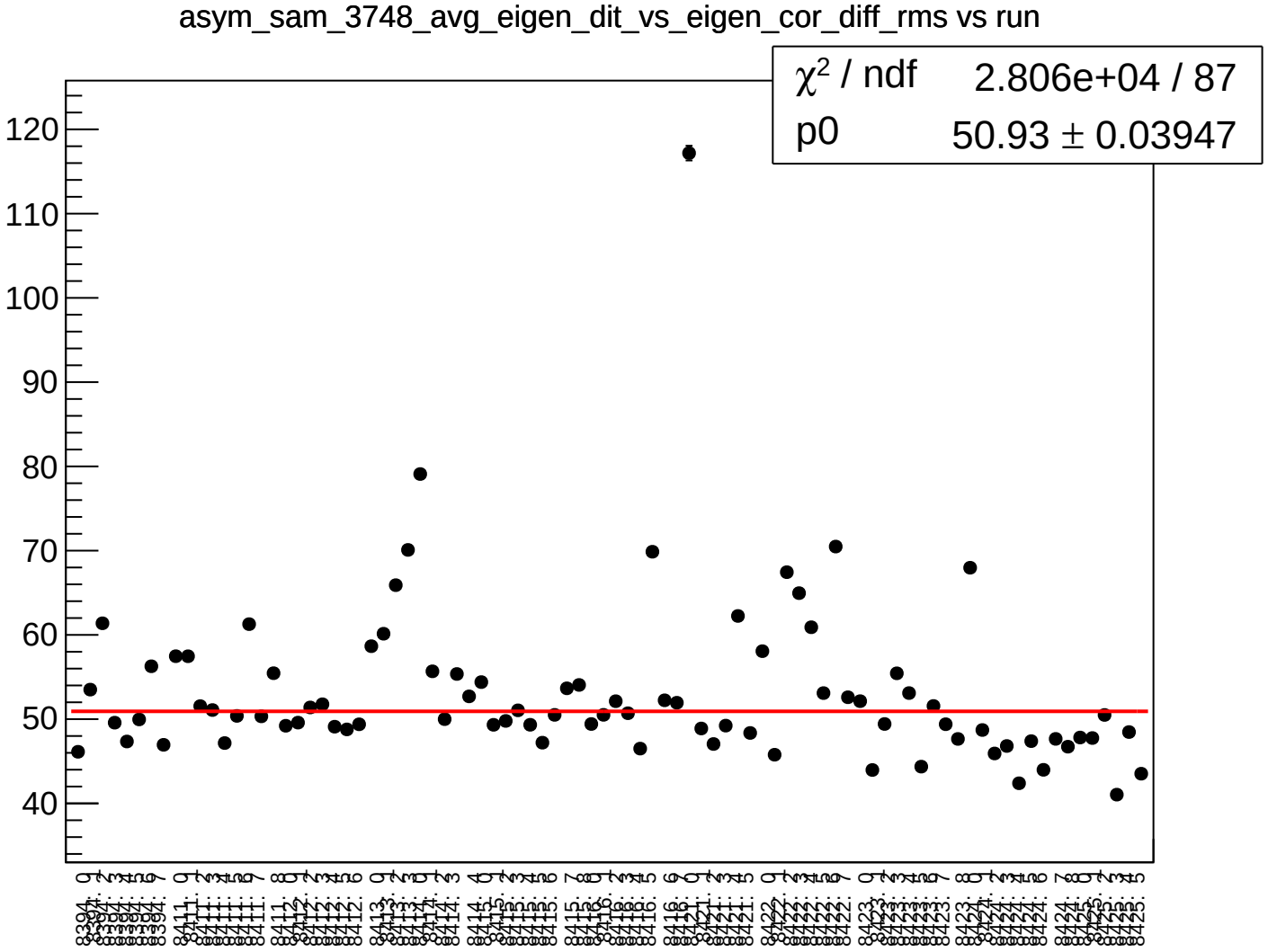

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.917e+05 / 87
p0 0.002859 ± 2.333e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

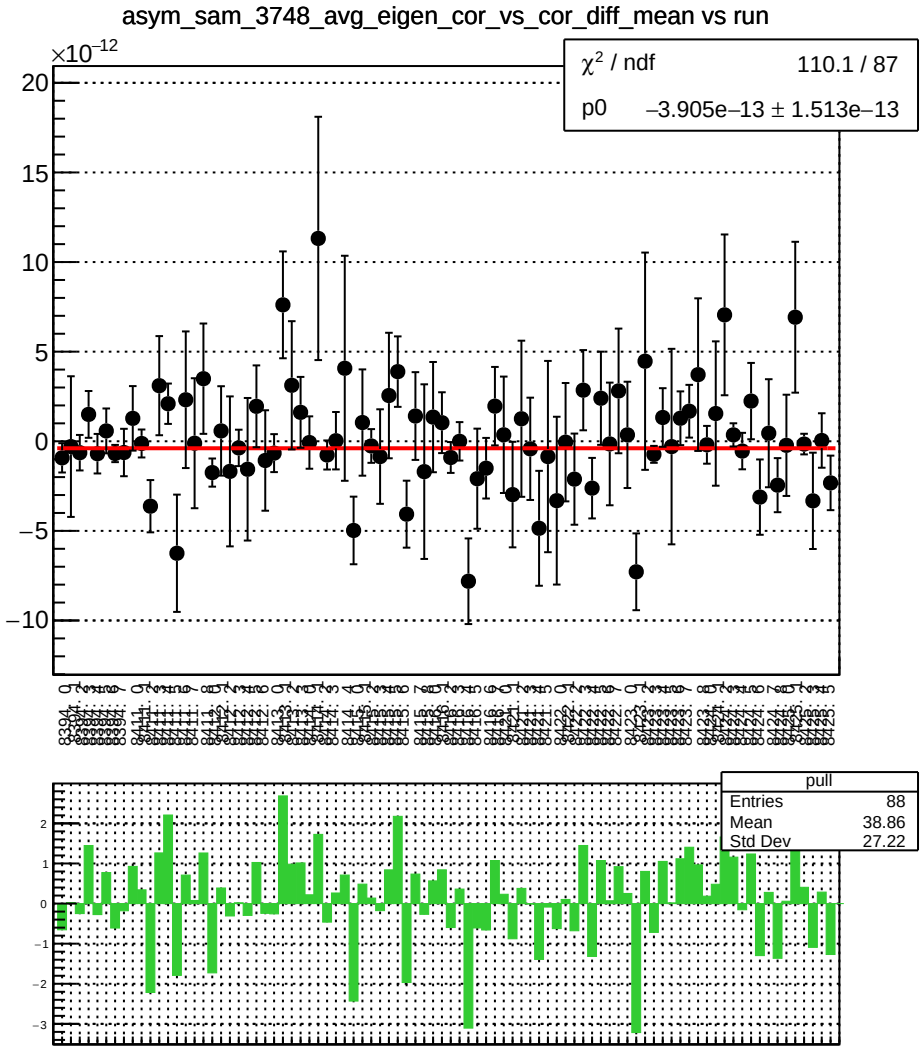

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.37 / 87
p0 −0.3092 ± 0.05582
pull
Entries 88
Mean 154.5
Std Dev 0
pull1D
Entries 88
Mean −0.01662
Std Dev 1.041

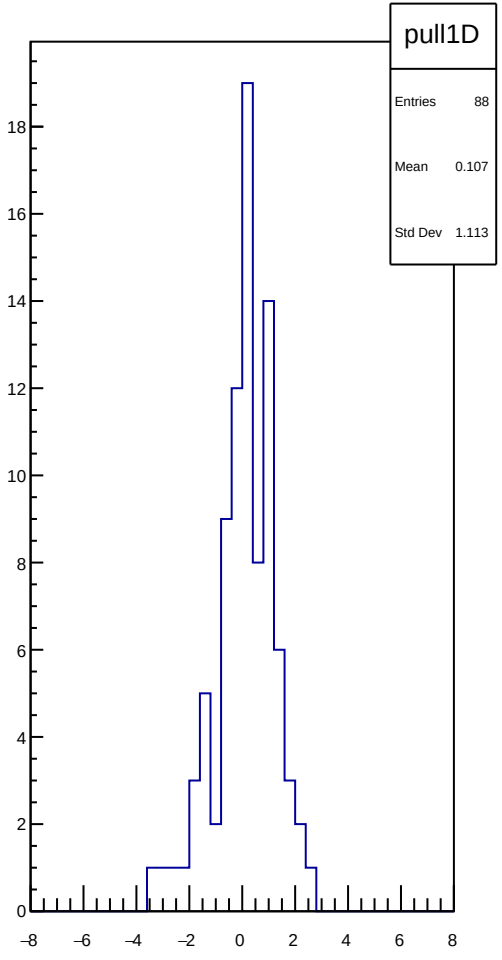

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.806e+04 / 87
p0 50.93 ± 0.03947
120
110
100
90
80
70
60
50
40

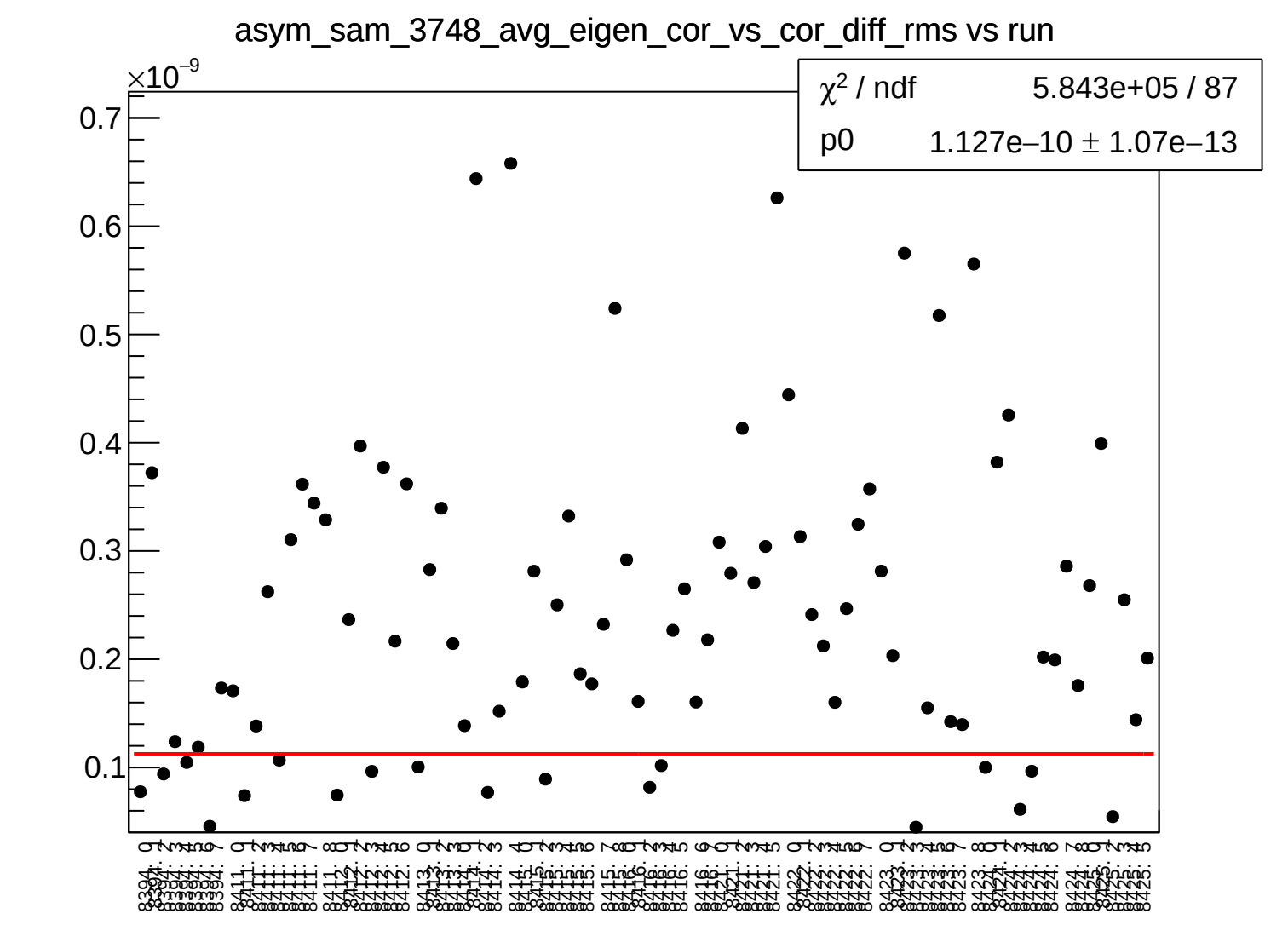

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.37 / 87
p0 −0.3092 ± 0.05582
pull
Entries 88
Mean 154.5
Std Dev 0

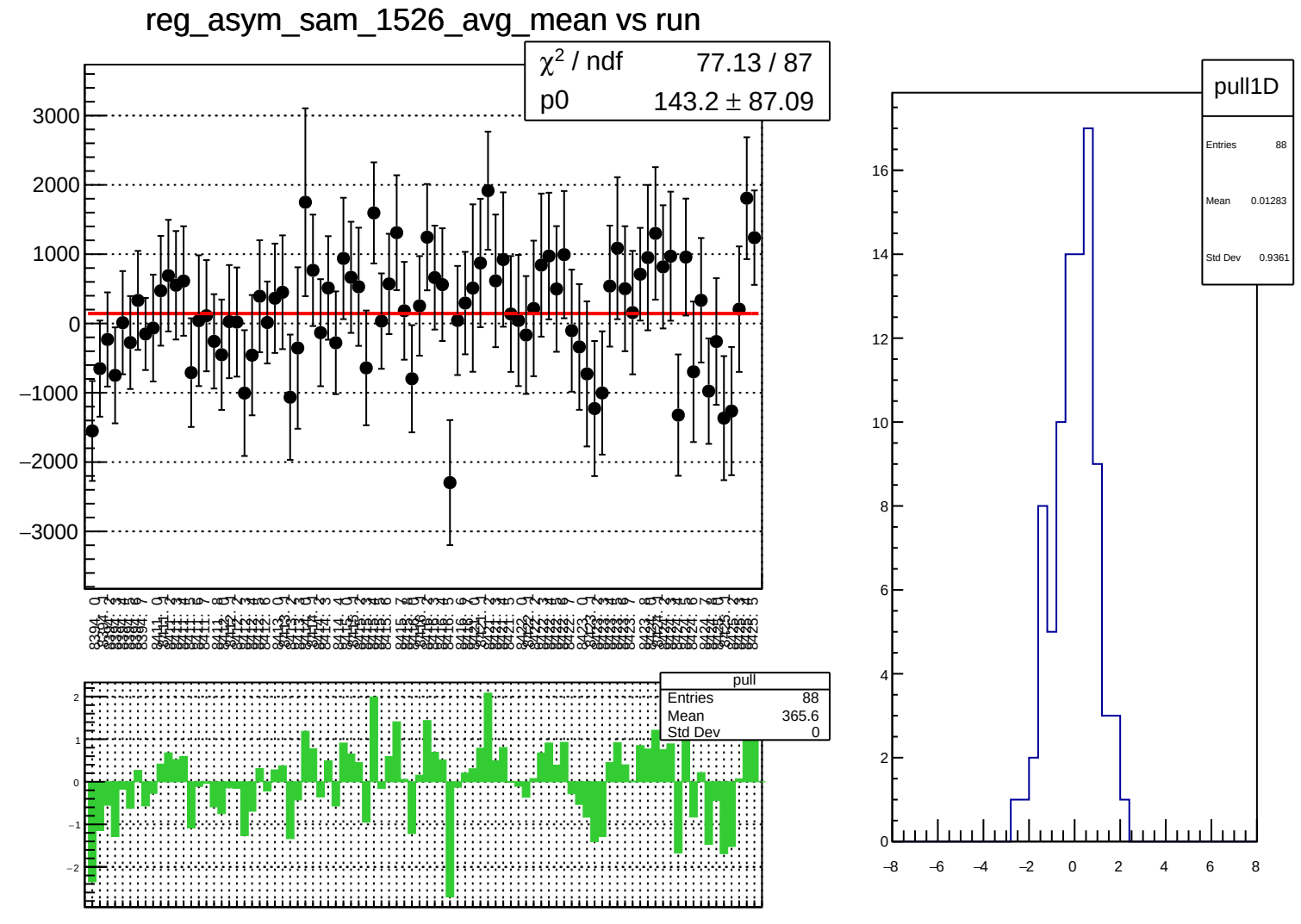

pull1D
Entries 88
Mean −0.01662
Std Dev 1.041

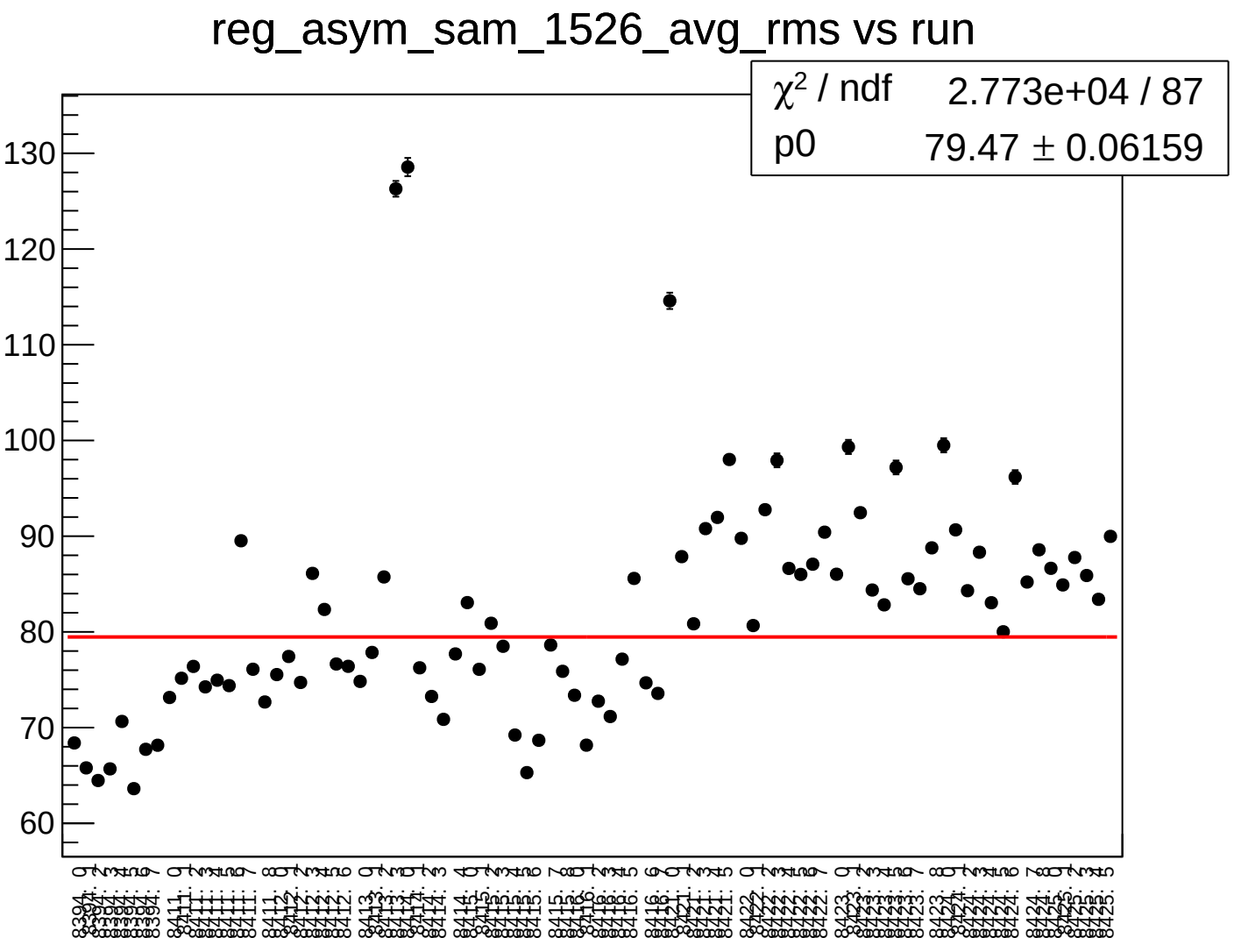

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.806e+04 / 87
p0 50.93 ± 0.03947
120
110
100
90
80
70
60
50
40

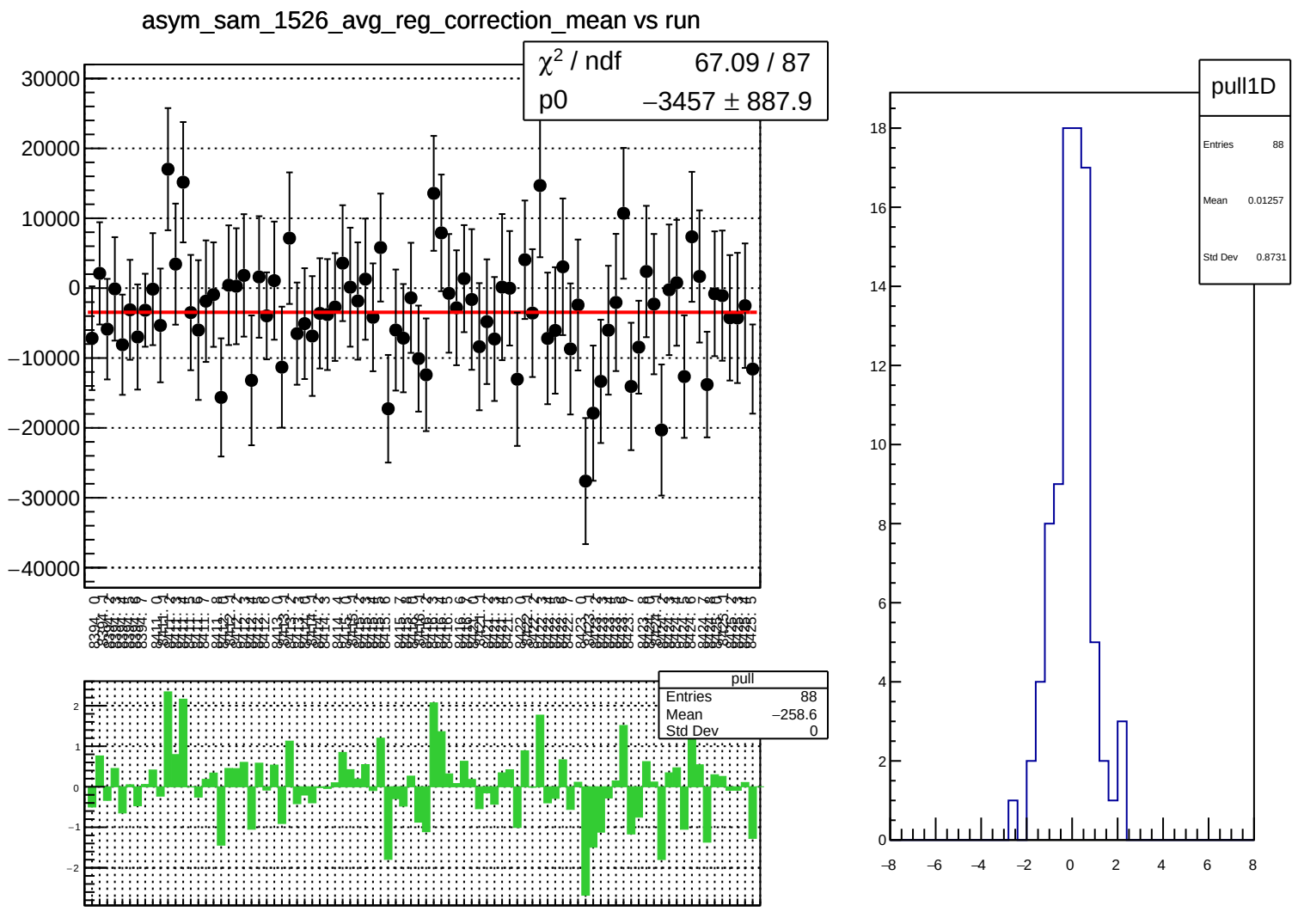

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 110.1 / 87
p0 −3.905e−13 ± 1.513e−13
pull
Entries 88
Mean 38.86
Std Dev 27.22

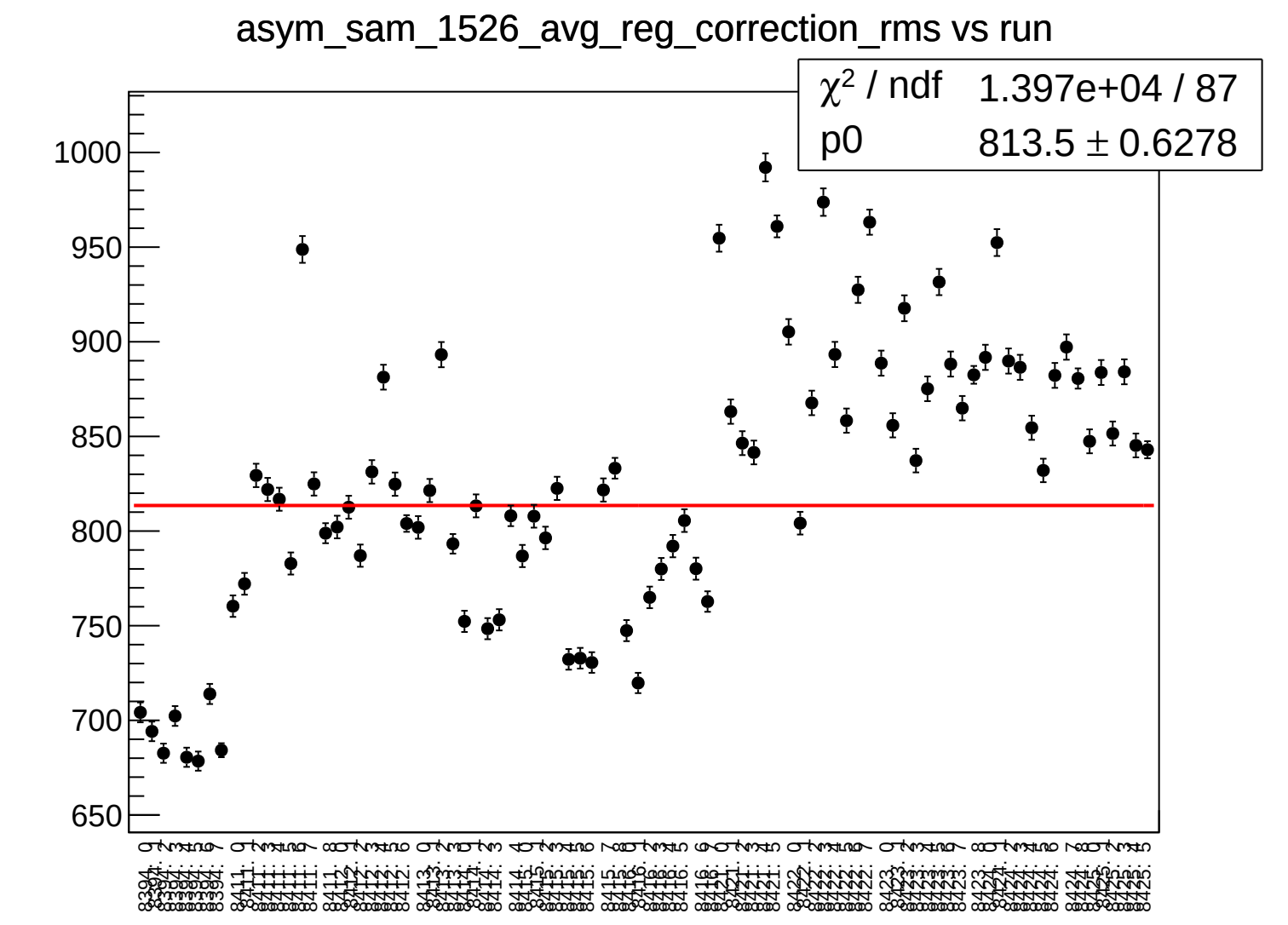

pull1D
Entries 88
Mean 0.107
Std Dev 1.113

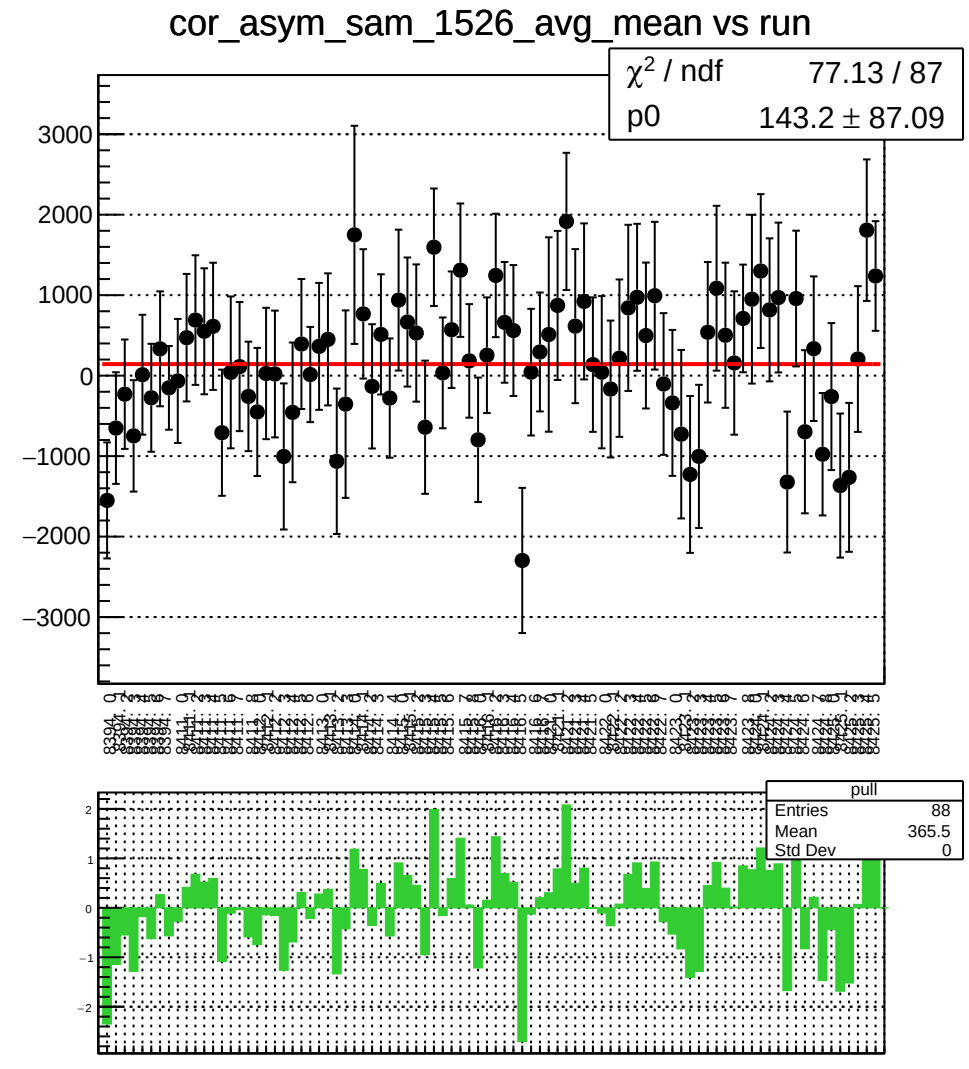

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.843e+05 / 87
p0 1.127e−10 ± 1.07e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

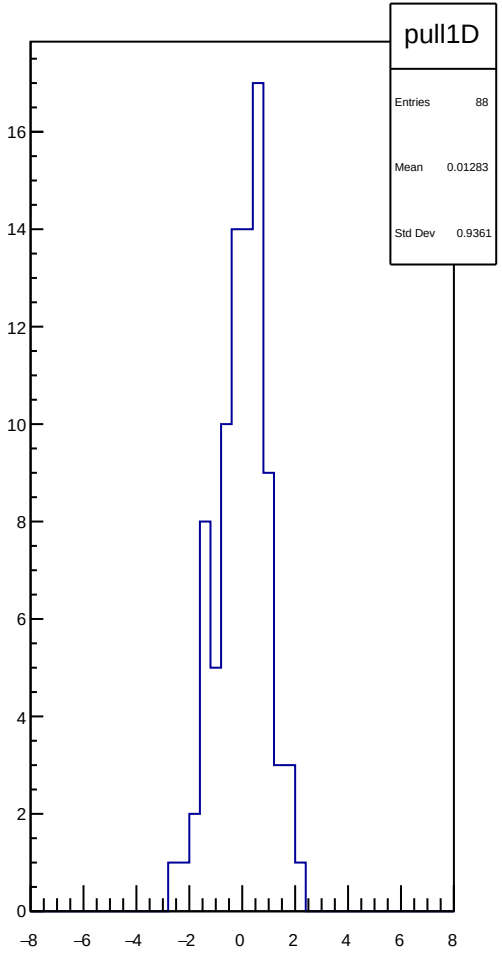

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 77.13 / 87
p0 143.2 ± 87.09
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 365.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01283
Std Dev 0.9361
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

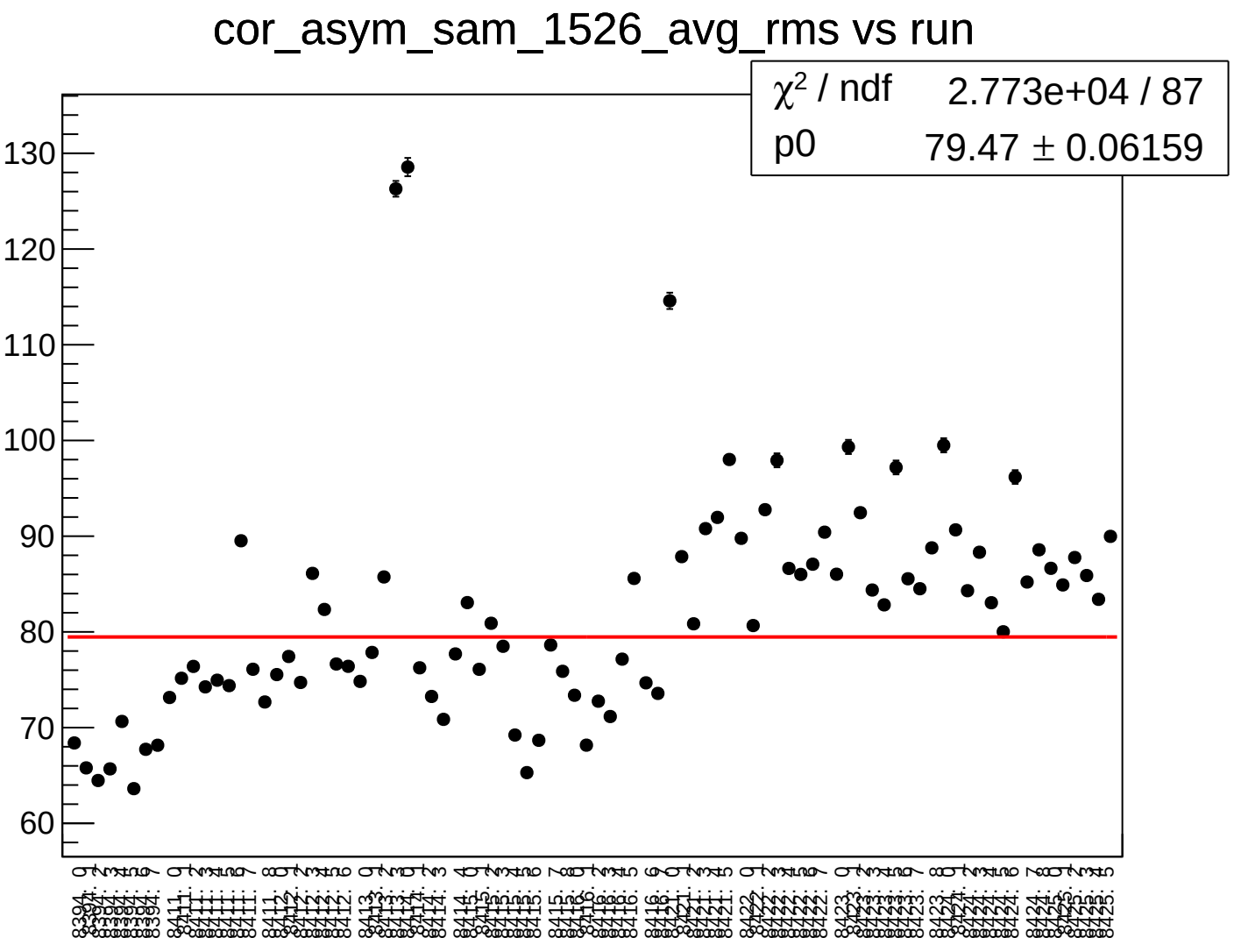

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 2.773e+04 / 87
p0 79.47 ± 0.06159
130
120
110
100
90
80
70
60

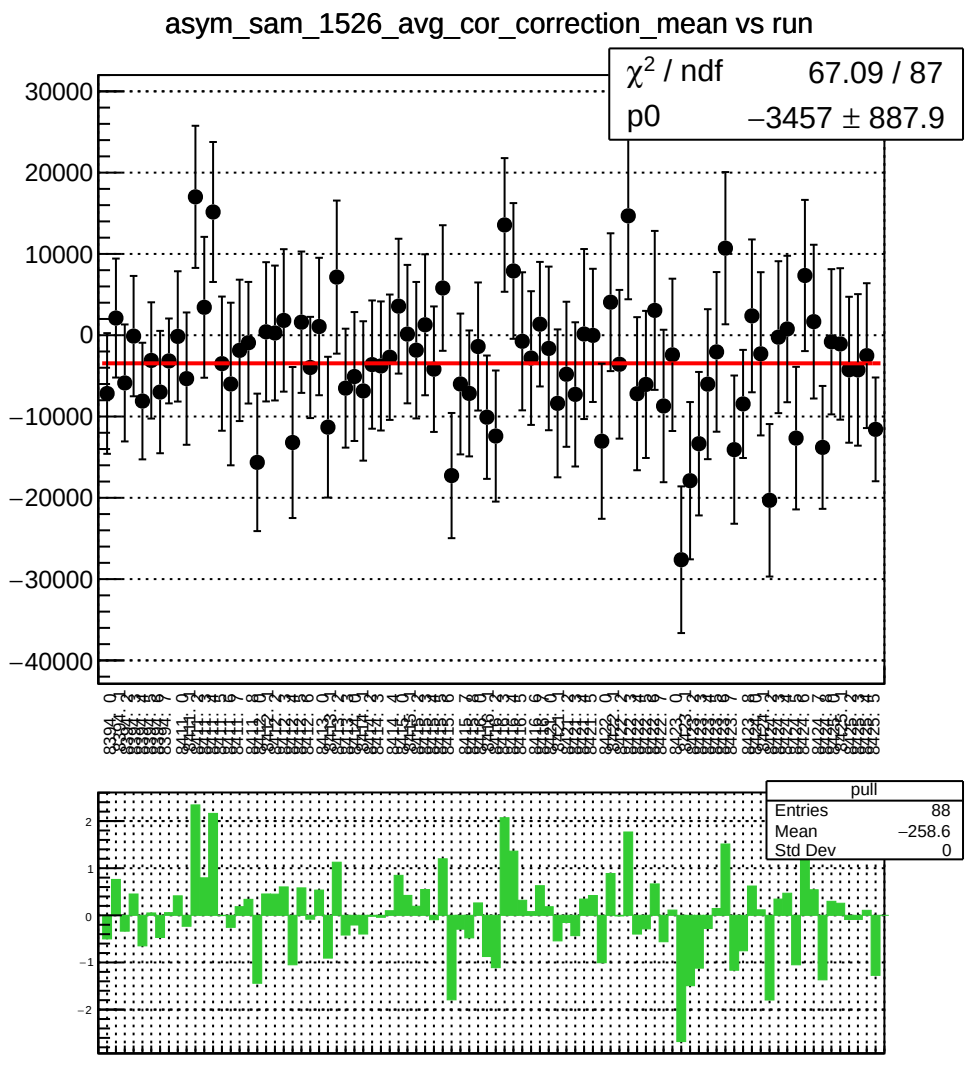

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 67.09 / 87
p0 −3457 ± 887.9
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −258.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01257
Std Dev 0.8731
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

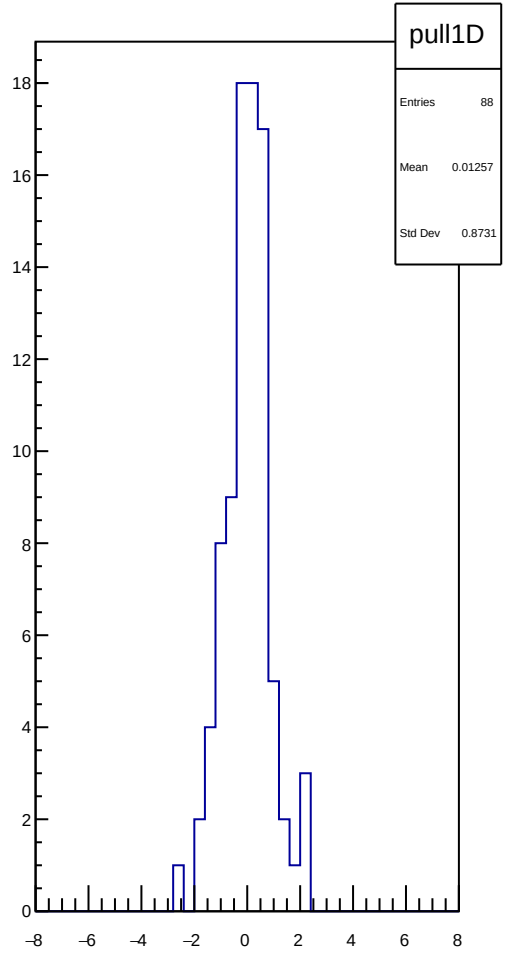

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 1.397e+04 / 87
p0 813.5 ± 0.6278
1000
950
900
850
800
750
700
650

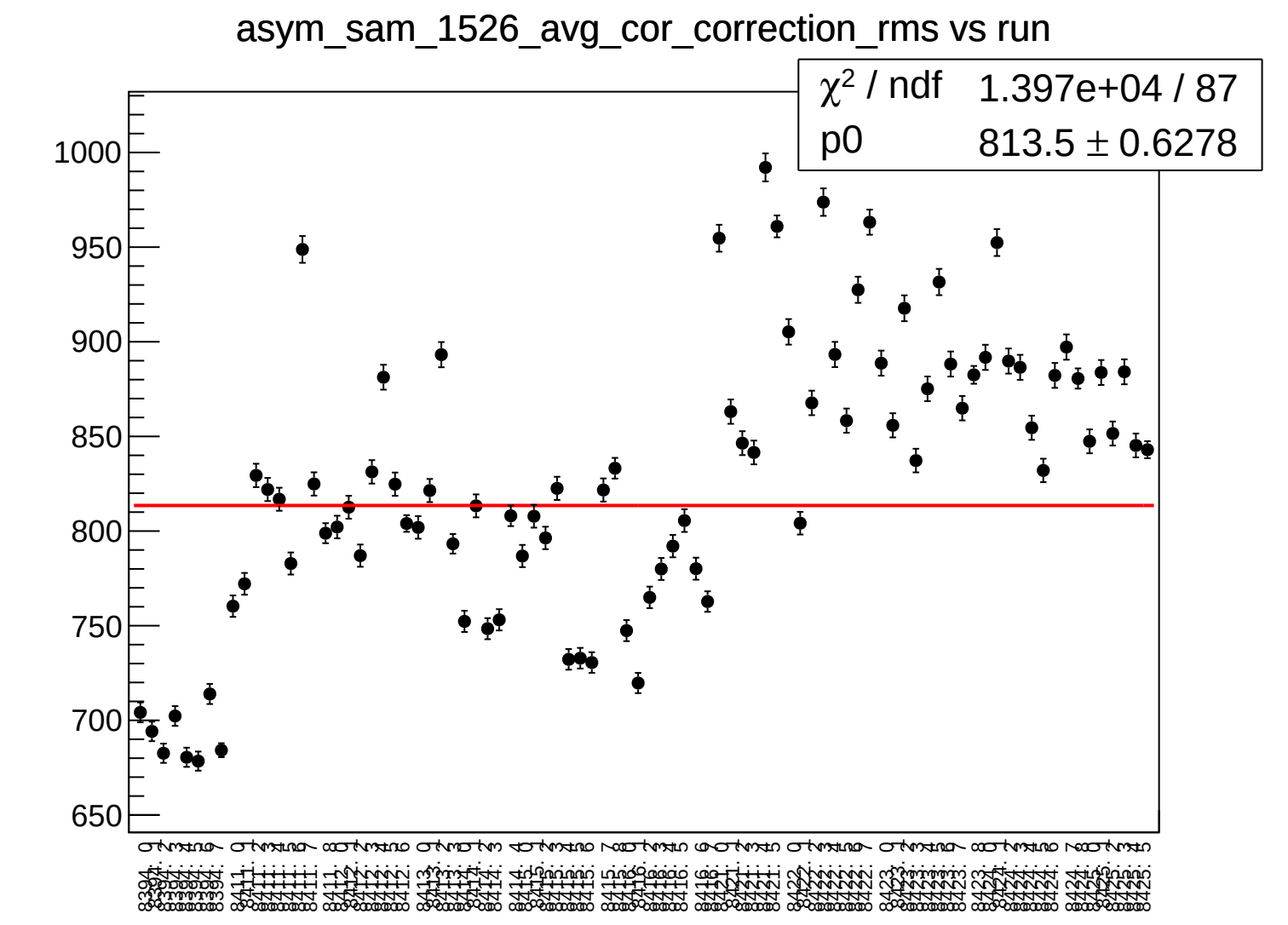

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 77.13 / 87
p0 143.2 ± 87.09
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 365.5
Std Dev 0
2
1
0
−1
−2

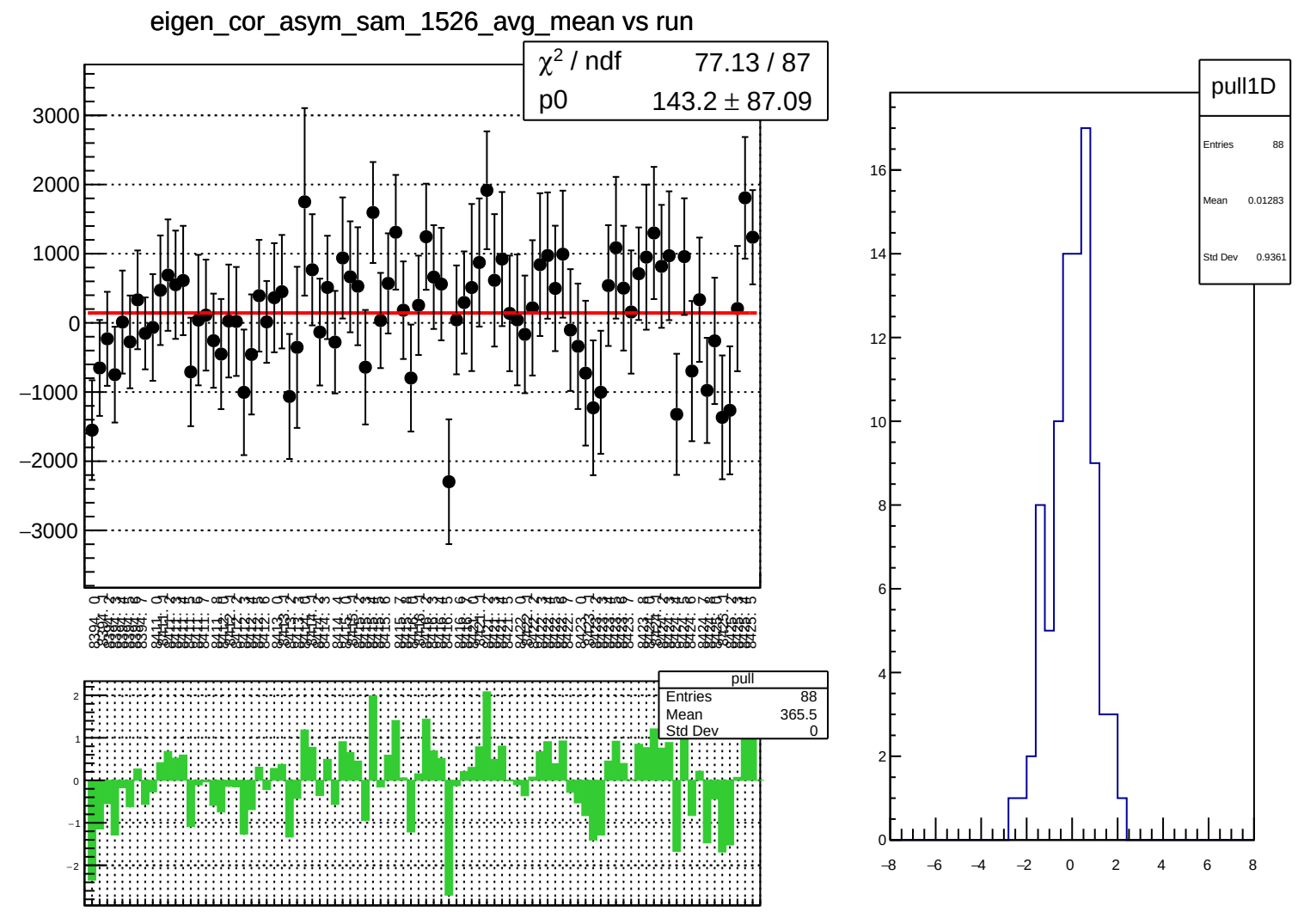

pull1D
Entries 88
Mean 0.01283
Std Dev 0.9361
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

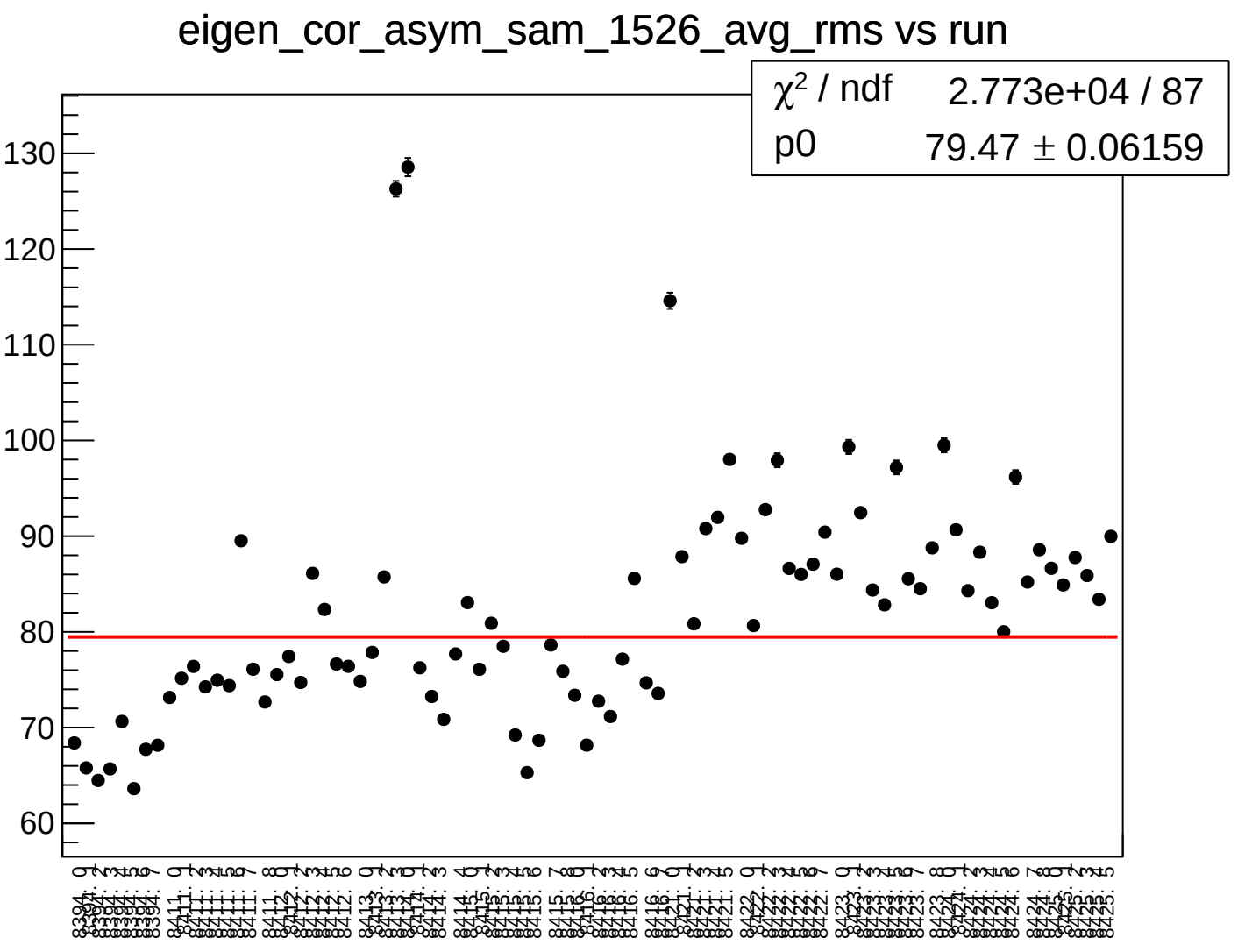

cor_asym_sam_1526_avg_rms vs run
χ² / ndf 2.773e+04 / 87
p0 79.47 ± 0.06159
130
120
110
100
90
80
70
60

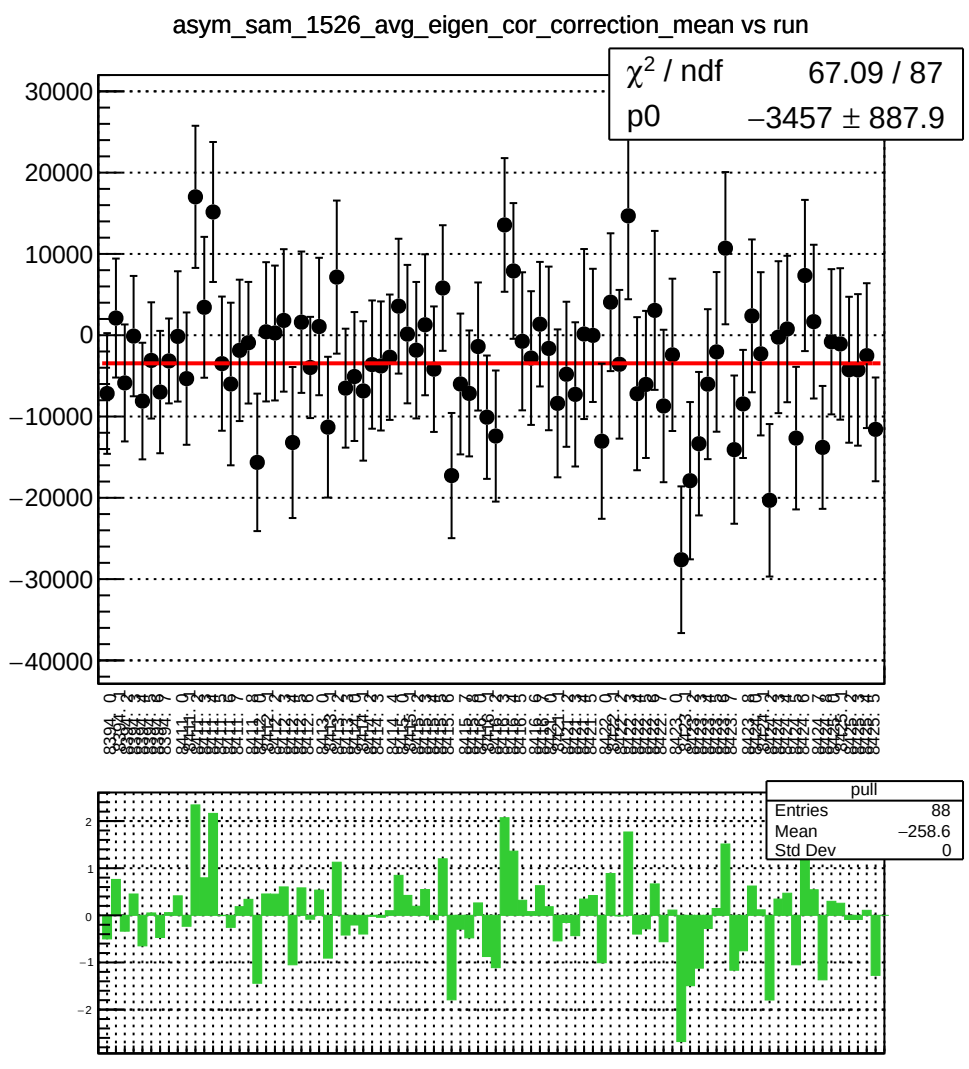

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 67.09 / 87
p0 −3457 ± 887.9
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −258.6
Std Dev 0
2
1
0
−1
−2

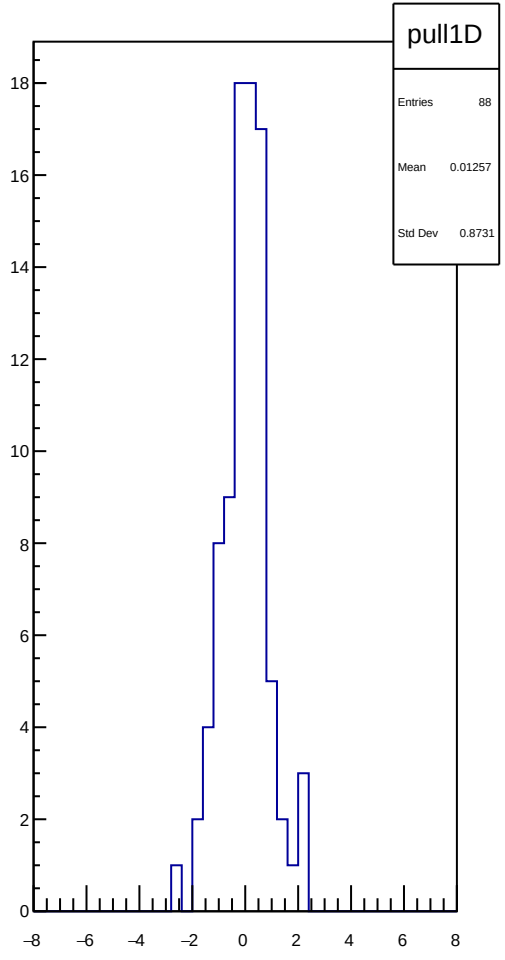

pull1D
Entries 88
Mean 0.01257
Std Dev 0.8731
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 1.397e+04 / 87
p0 813.5 ± 0.6278
1000
950
900
850
800
750
700
650


eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 77.13 / 87
p0 143.2 ± 87.09
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 365.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01283
Std Dev 0.9361
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 2.773e+04 / 87
p0 79.47 ± 0.06159
130
120
110
100
90
80
70
60


asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 67.09 / 87
p0 −3457 ± 887.9
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −258.6
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.01257
Std Dev 0.8731
18
16
14
12
10
8
6
4
2
0
−8
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−4
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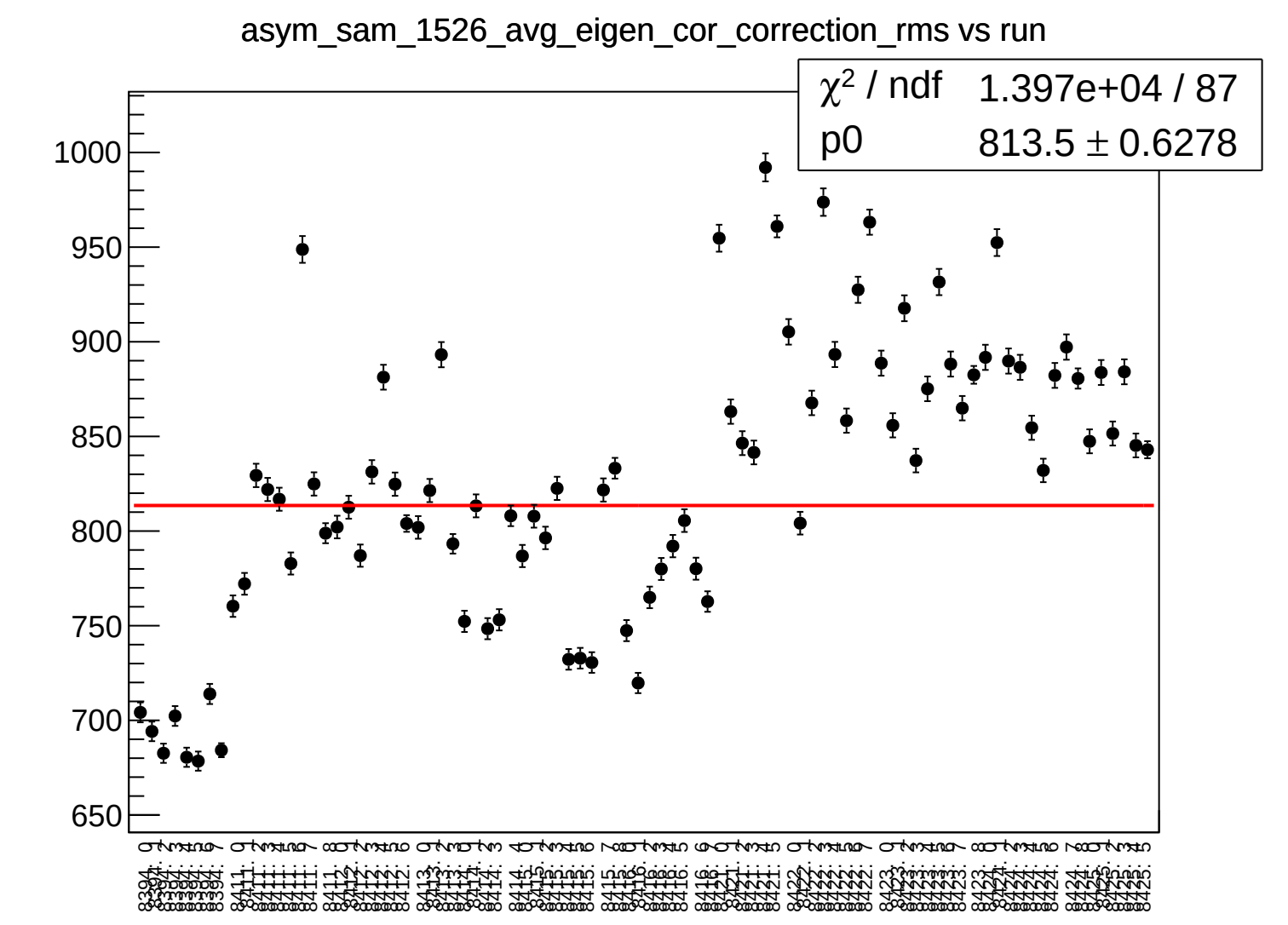
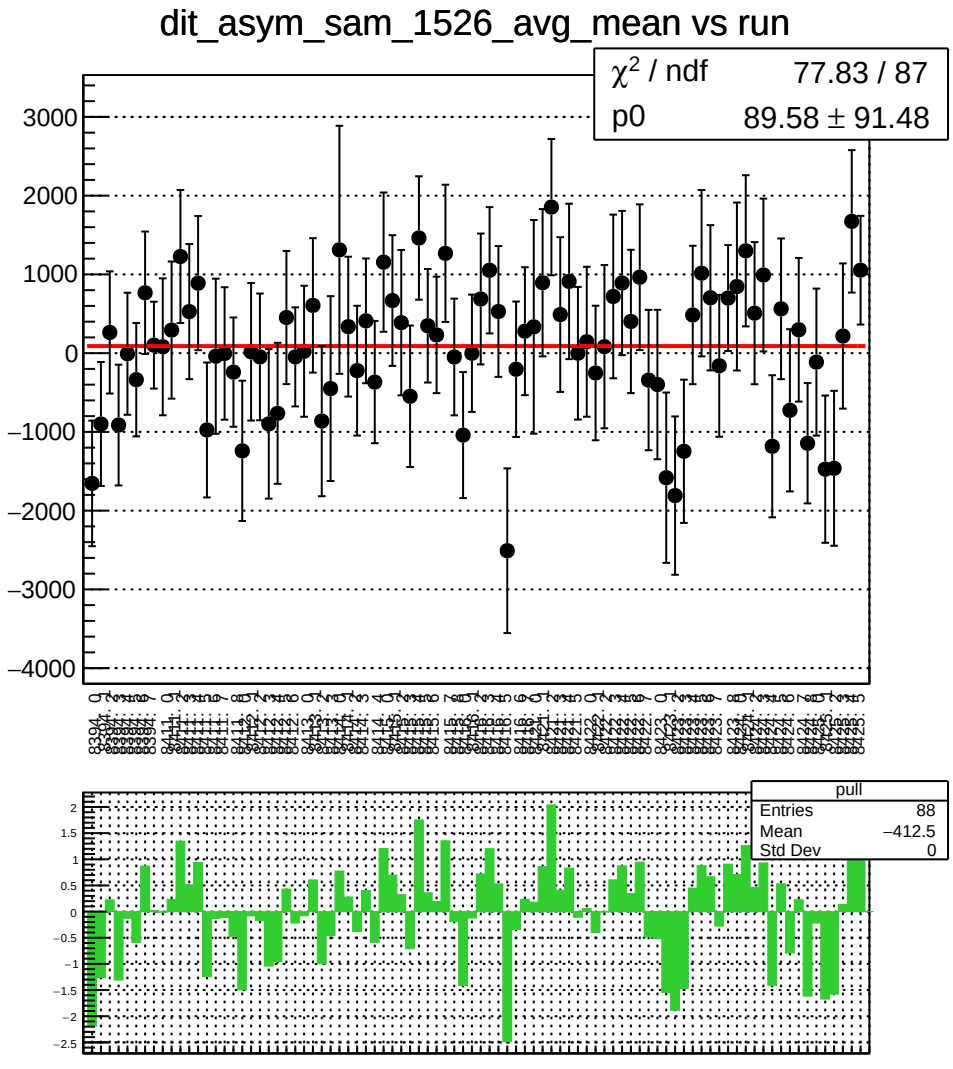
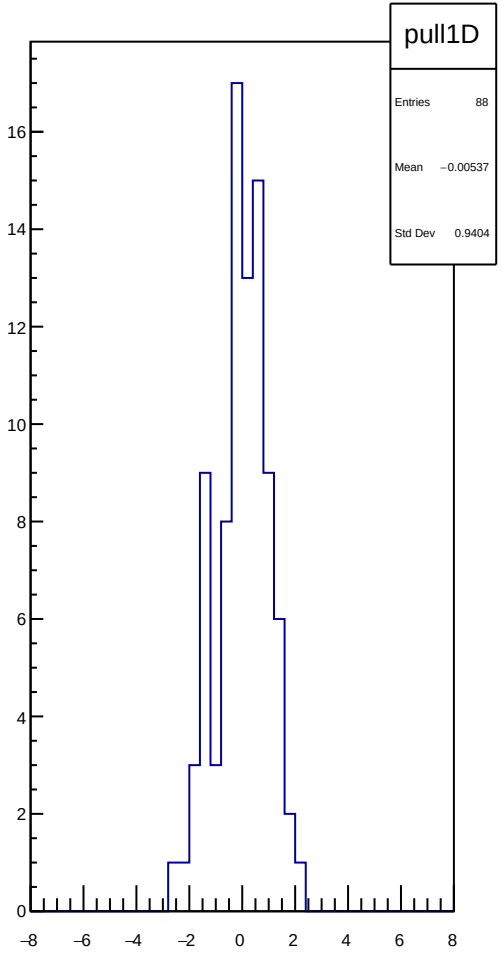
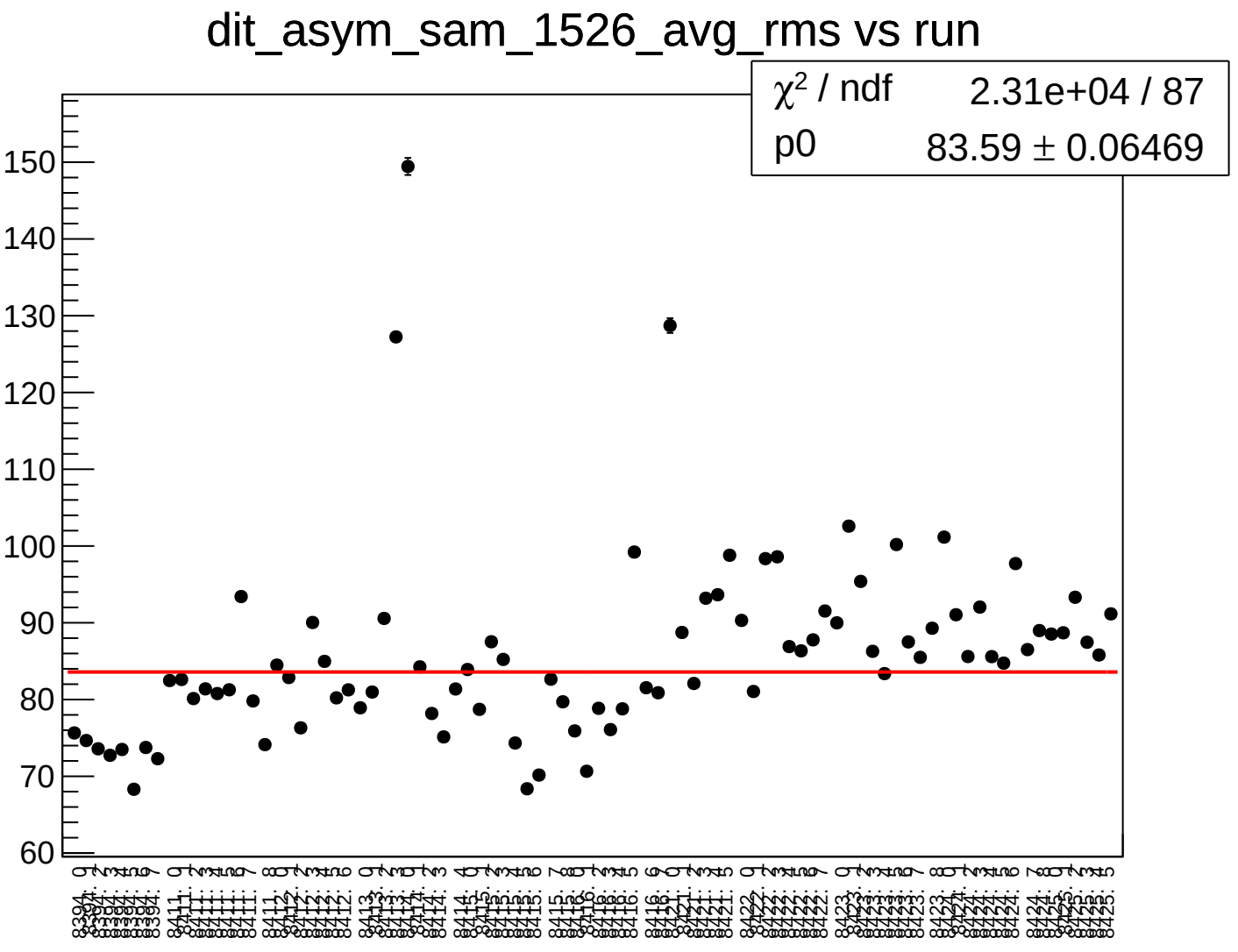
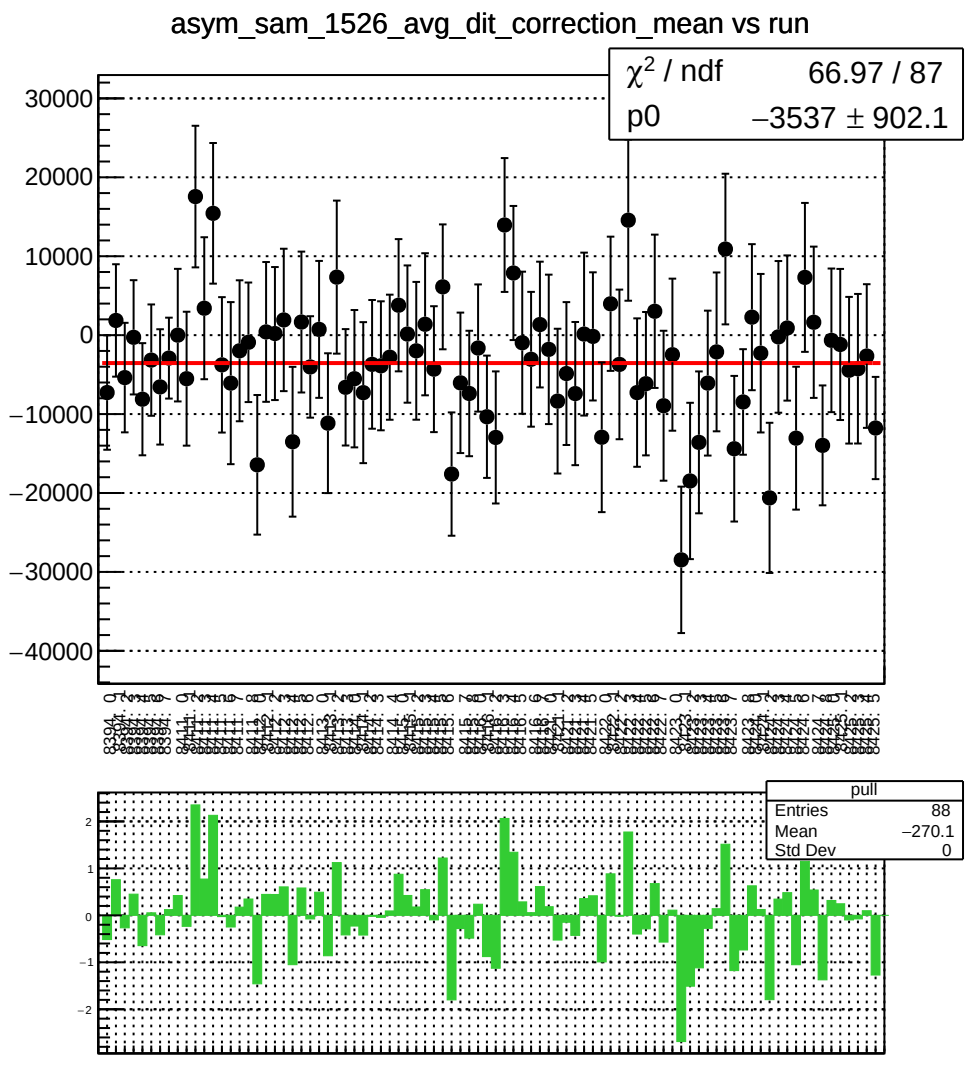
0
2
4
6
8

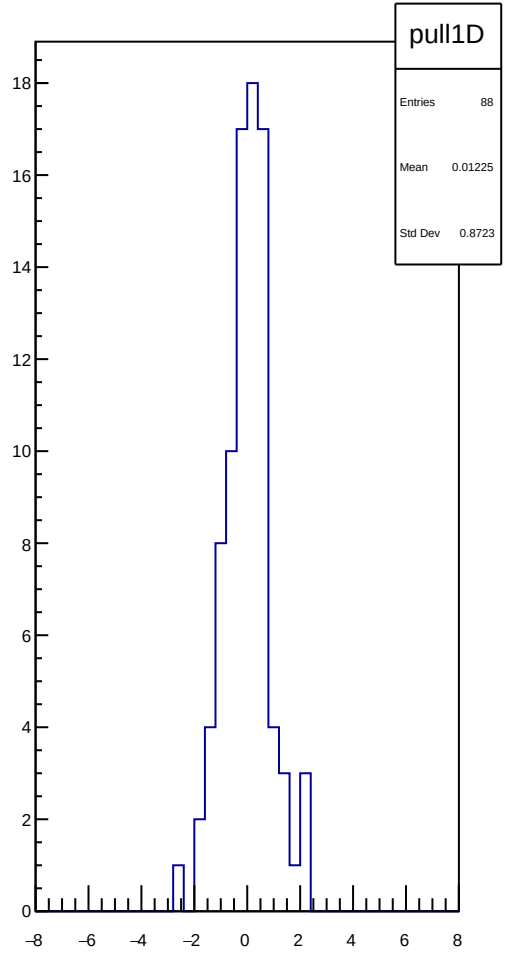

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.397e+04 / 87
p0 813.5 ± 0.6278
1000
950
900
850
800
750
700
650

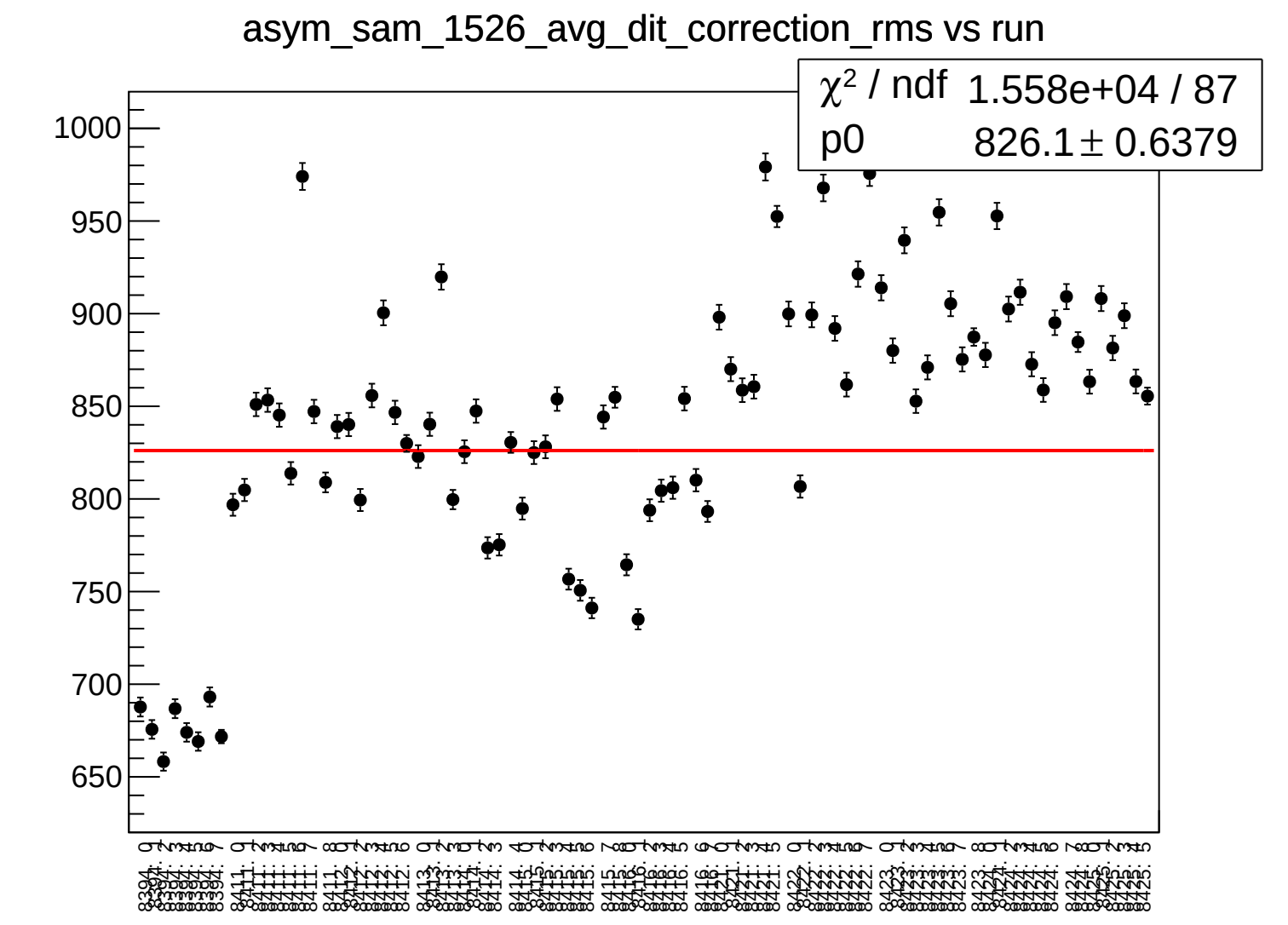

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 77.83 / 87
p0 89.58 ± 91.48
pull
Entries 88
Mean −412.5
Std Dev 0

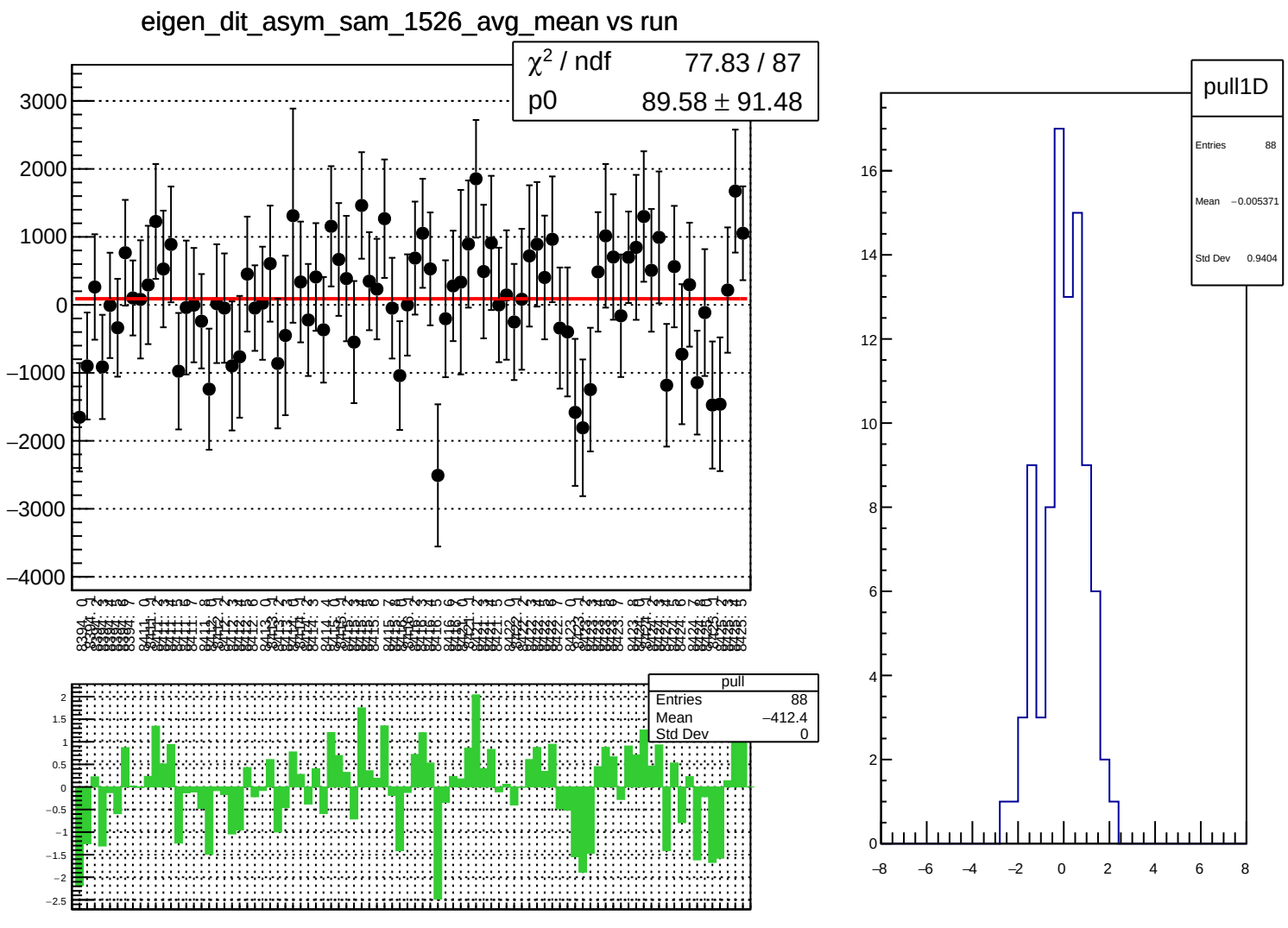

pull1D
Entries 88
Mean −0.00537
Std Dev 0.9404

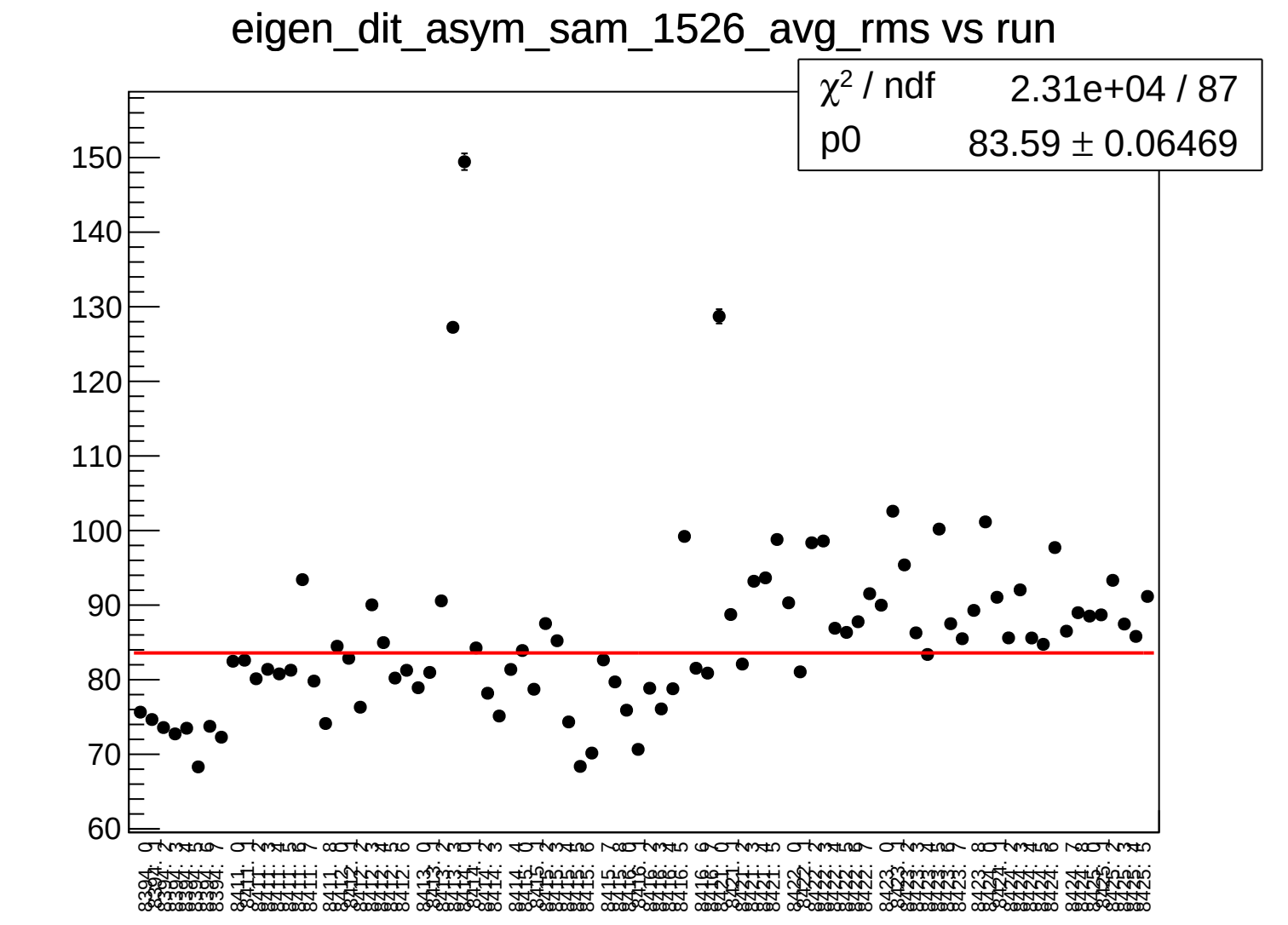

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 2.31e+04 / 87
p0 83.59 ± 0.06469
150
140
130
120
110
100
90
80
70
60

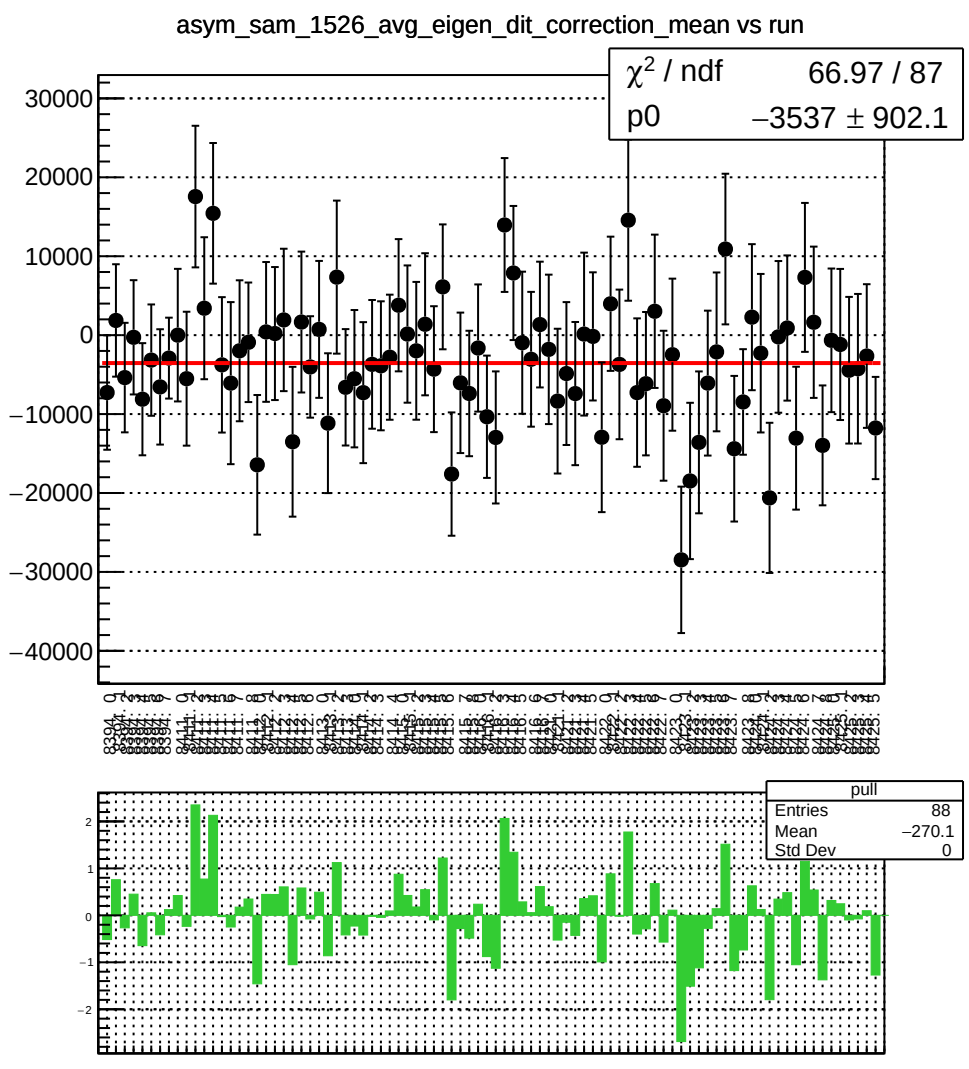

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 66.97 / 87
p0 −3537 ± 902.1
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −270.1
Std Dev 0
2
1
0
−1
−2

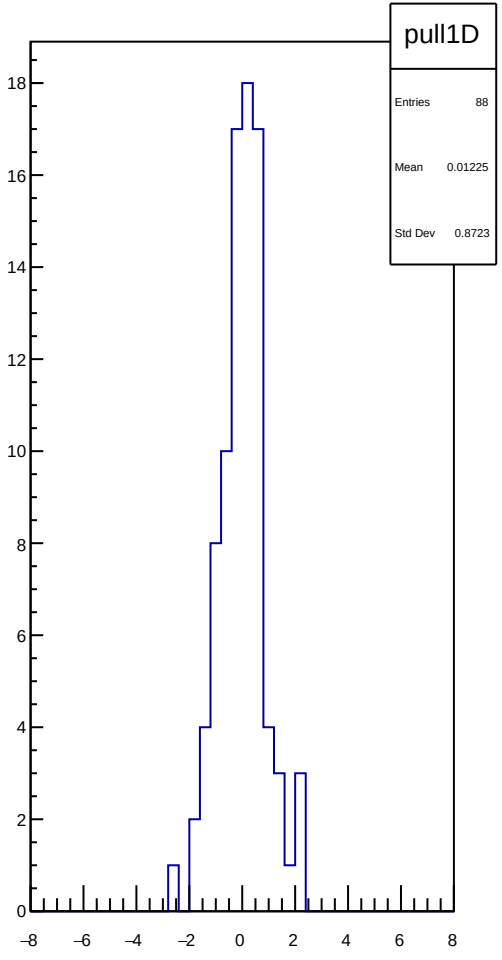

pull1D
Entries 88
Mean 0.01225
Std Dev 0.8723
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

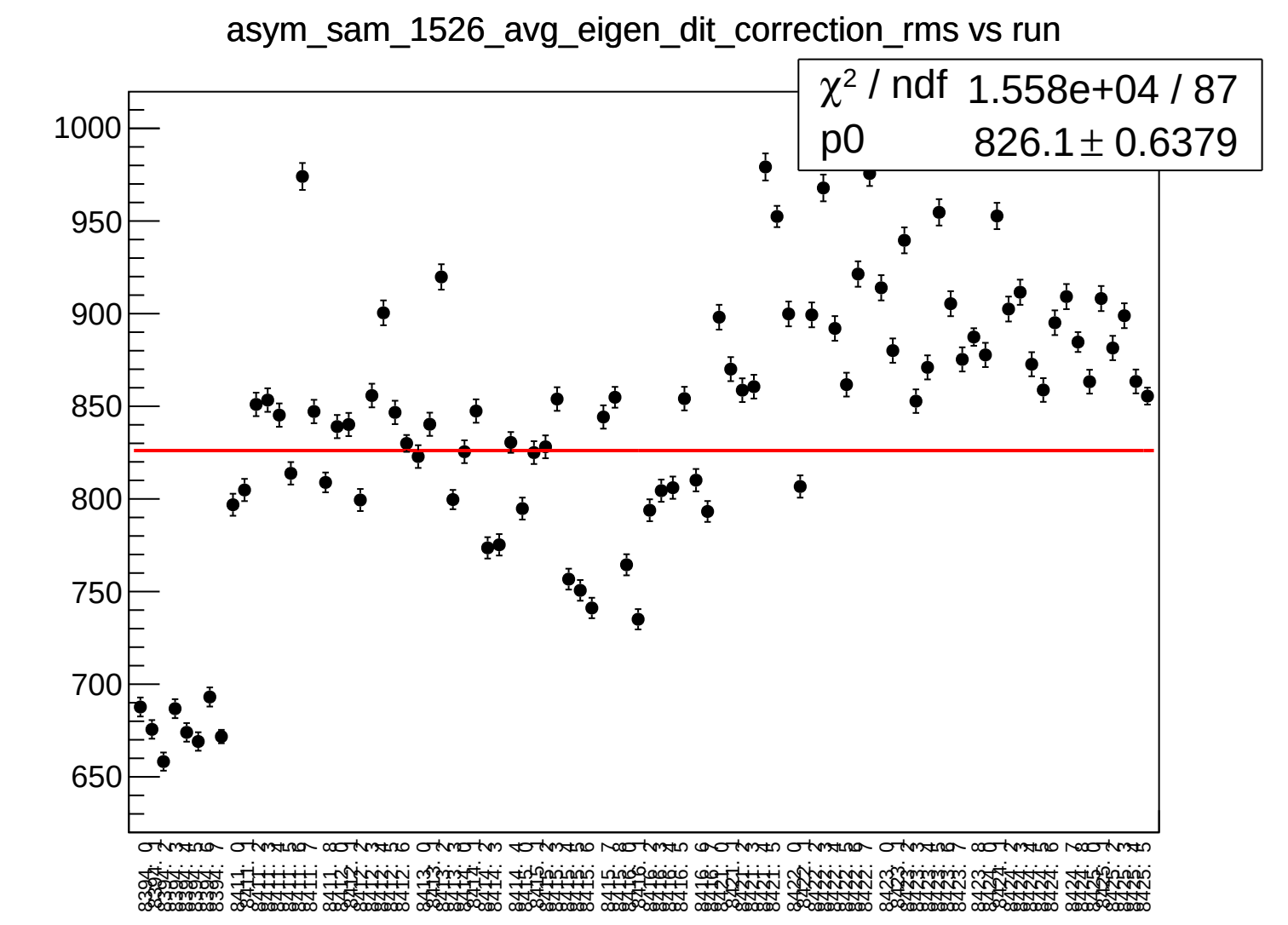

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 1.558e+04 / 87
p0 826.1 ± 0.6379
1000
950
900
850
800
750
700
650

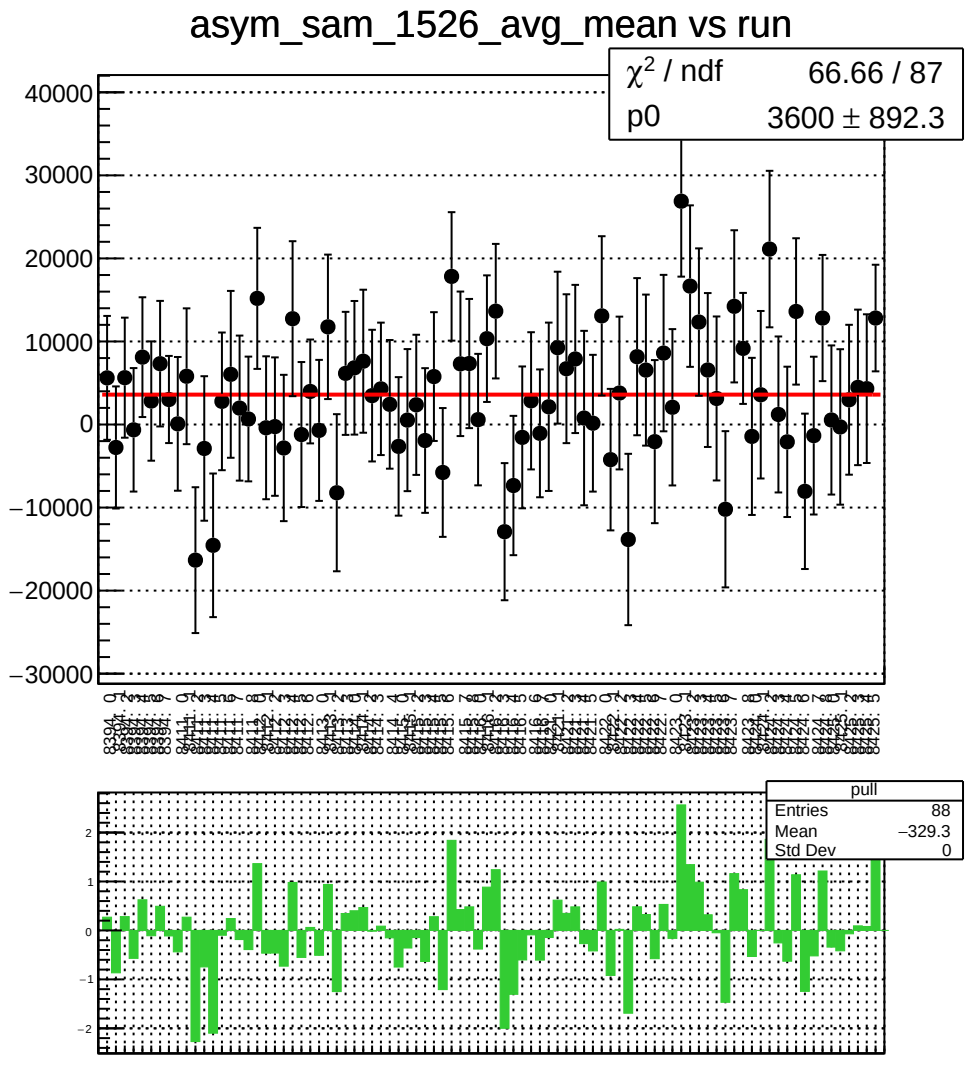

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 77.83 / 87
p0 89.58 ± 91.48
pull
Entries 88
Mean −412.4
Std Dev 0
pull1D
Entries 88
Mean −0.005371
Std Dev 0.9404

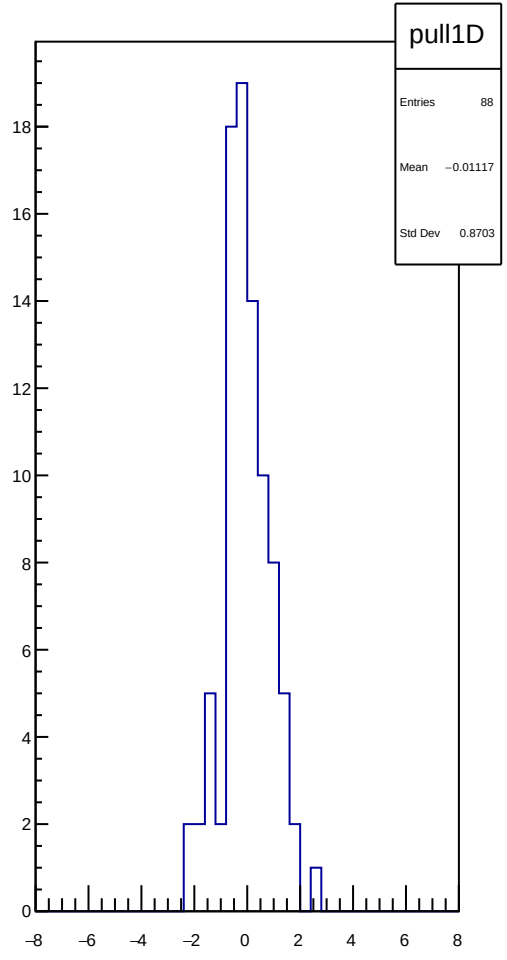

eigen_dit_asym_sam_1526_avg_rms vs run
χ^2 / ndf 2.31e+04 / 87
p0 83.59 ± 0.06469
150
140
130
120
110
100
90
80
70
60

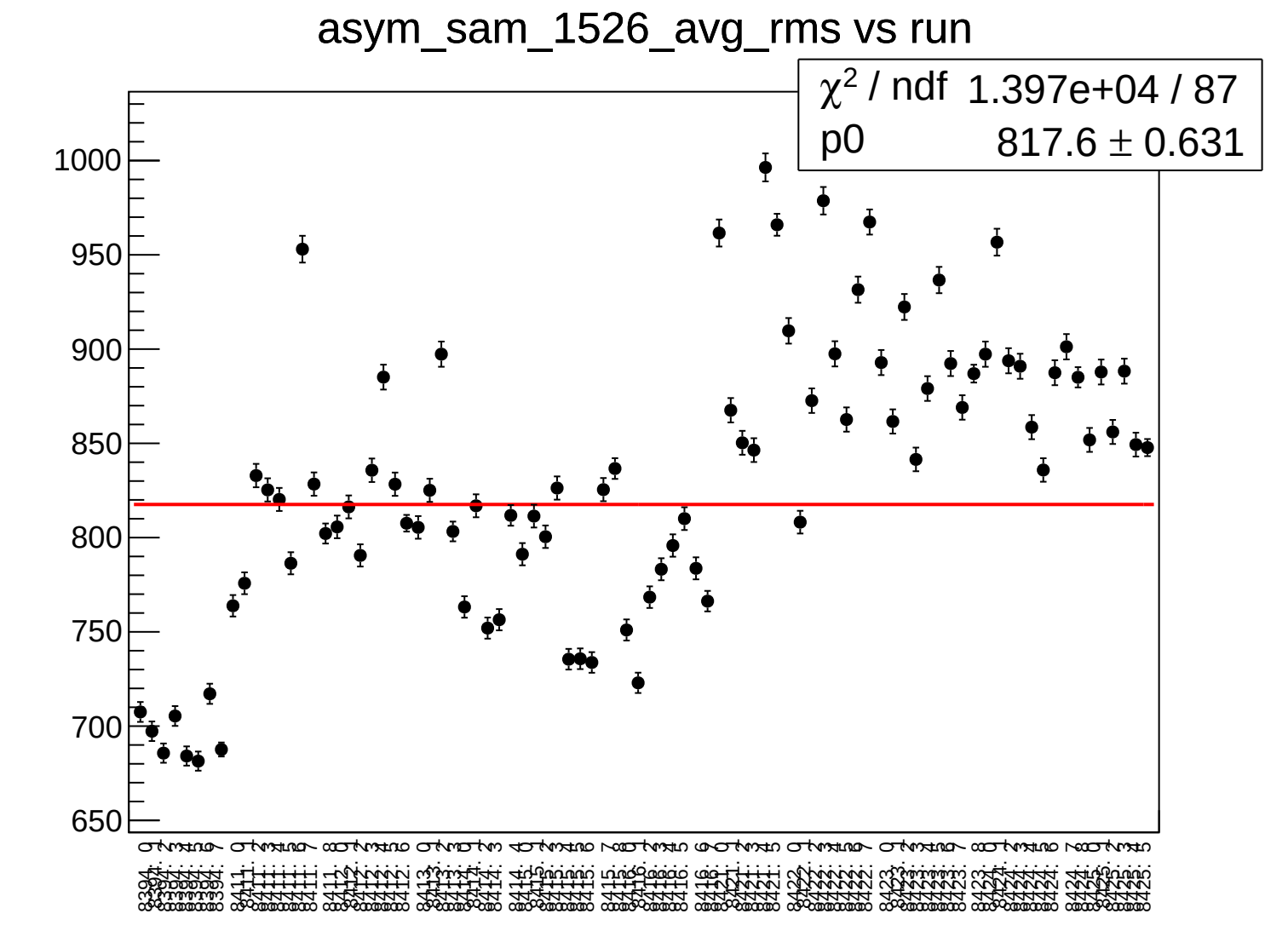

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 66.97 / 87
p0 −3537 ± 902.1
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −270.1
Std Dev 0
2
1
0
−1
−2

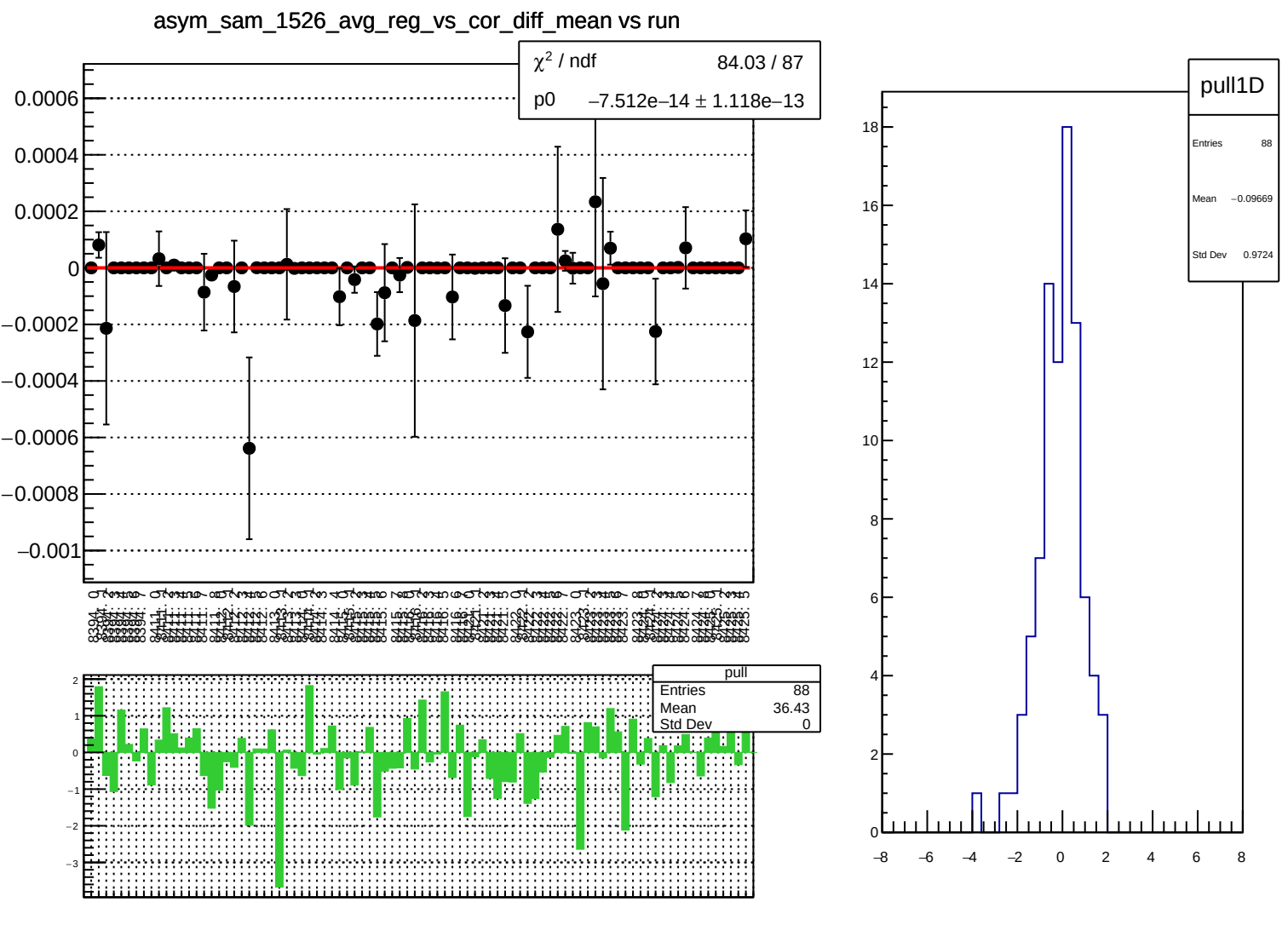

pull1D
Entries 88
Mean 0.01225
Std Dev 0.8723
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

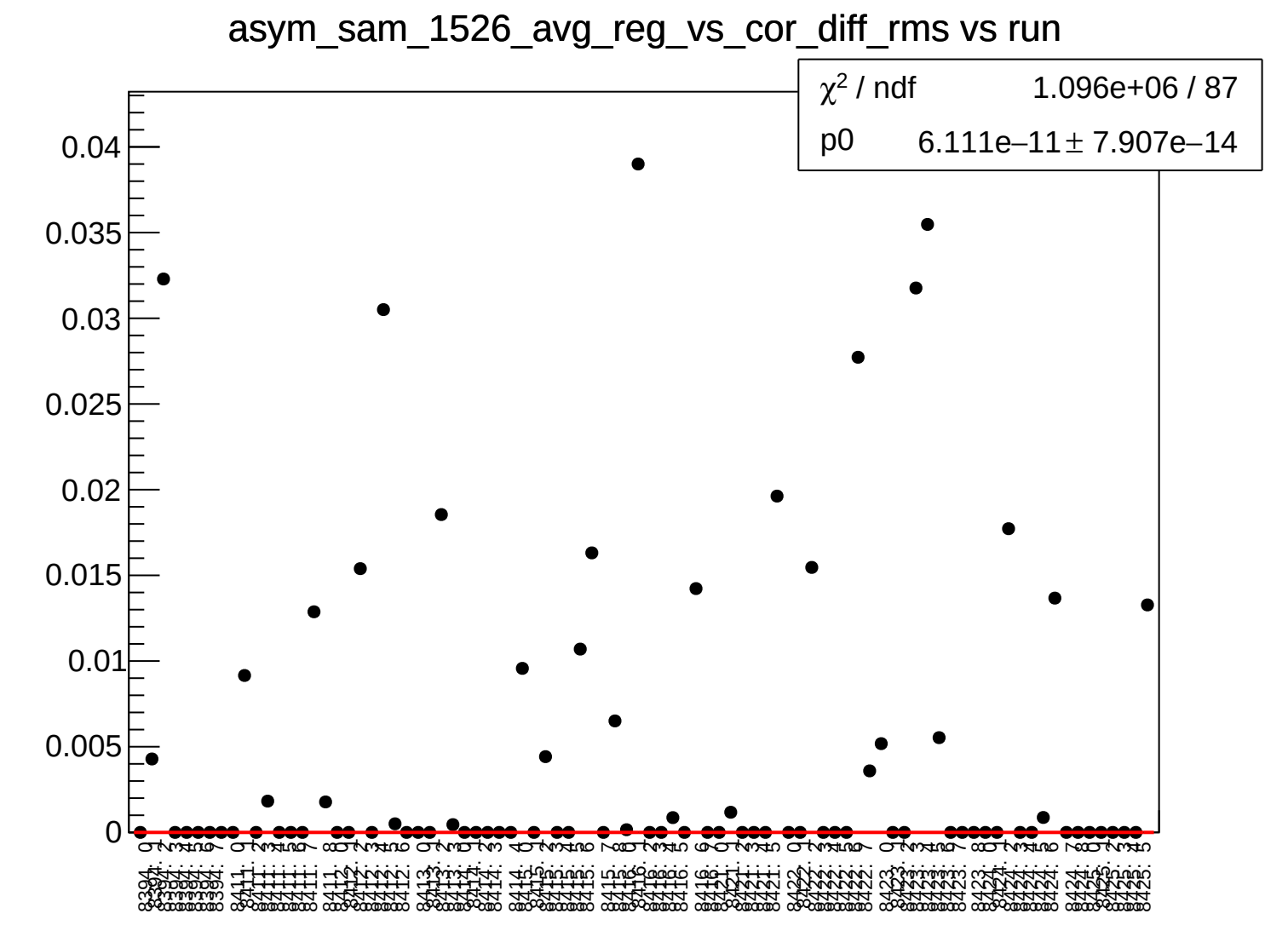

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.558e+04 / 87
p0 826.1 ± 0.6379
1000
950
900
850
800
750
700
650

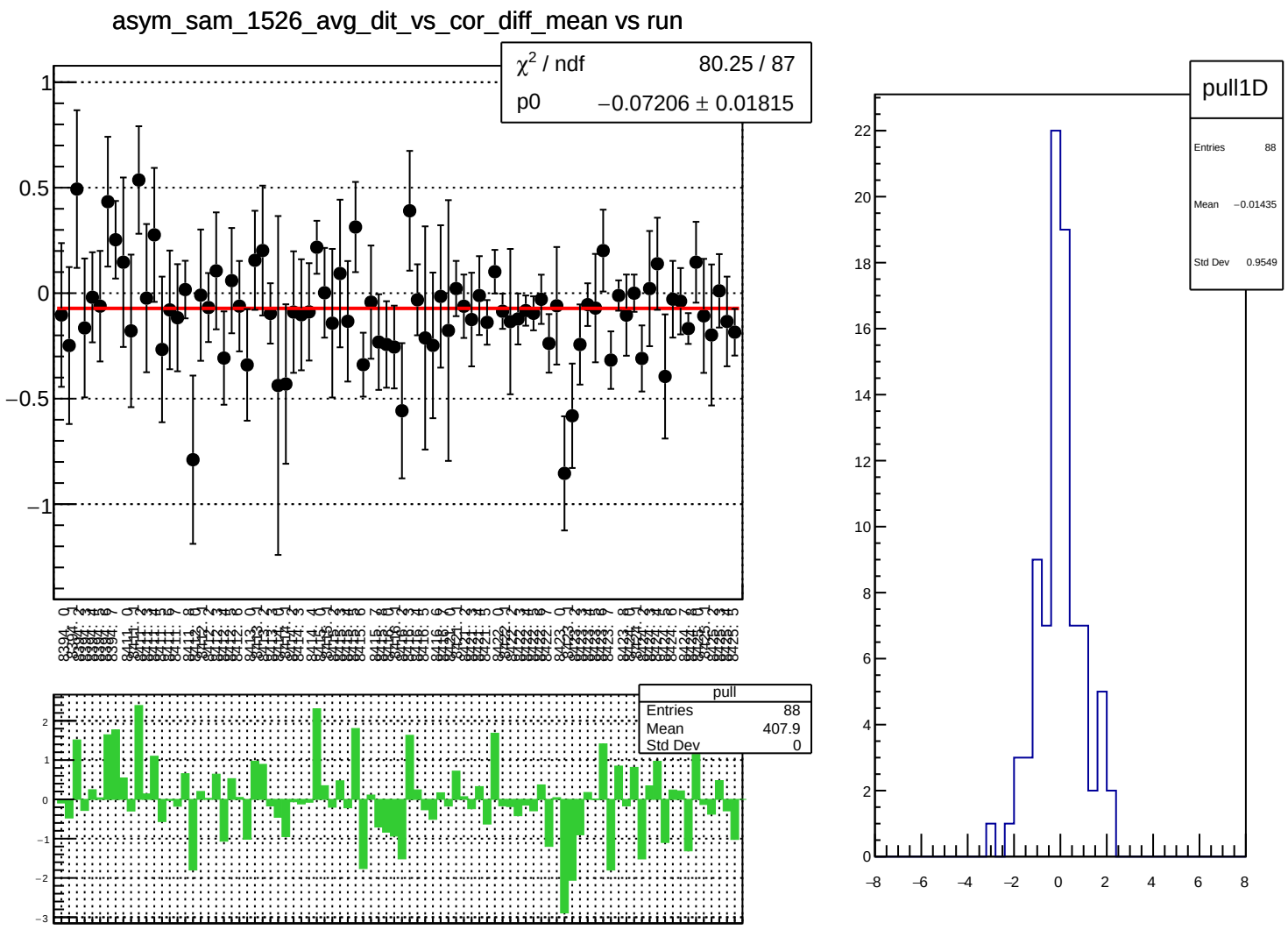

asym_sam_1526_avg_mean vs run
χ² / ndf 66.66 / 87
p0 3600 ± 892.3
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −329.3
Std Dev 0
2
1
0
−1
−2

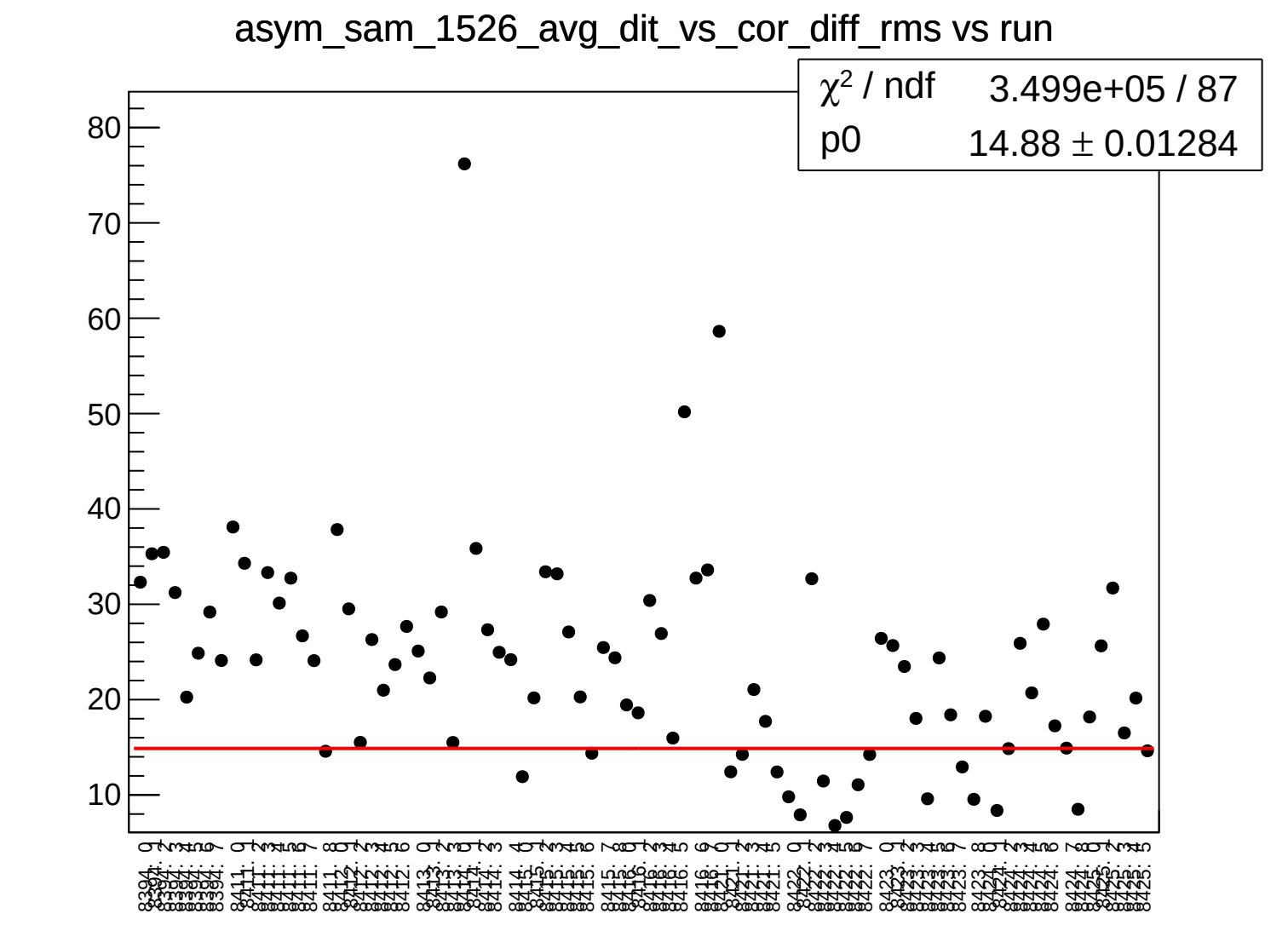

pull1D
Entries 88
Mean −0.01117
Std Dev 0.8703
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

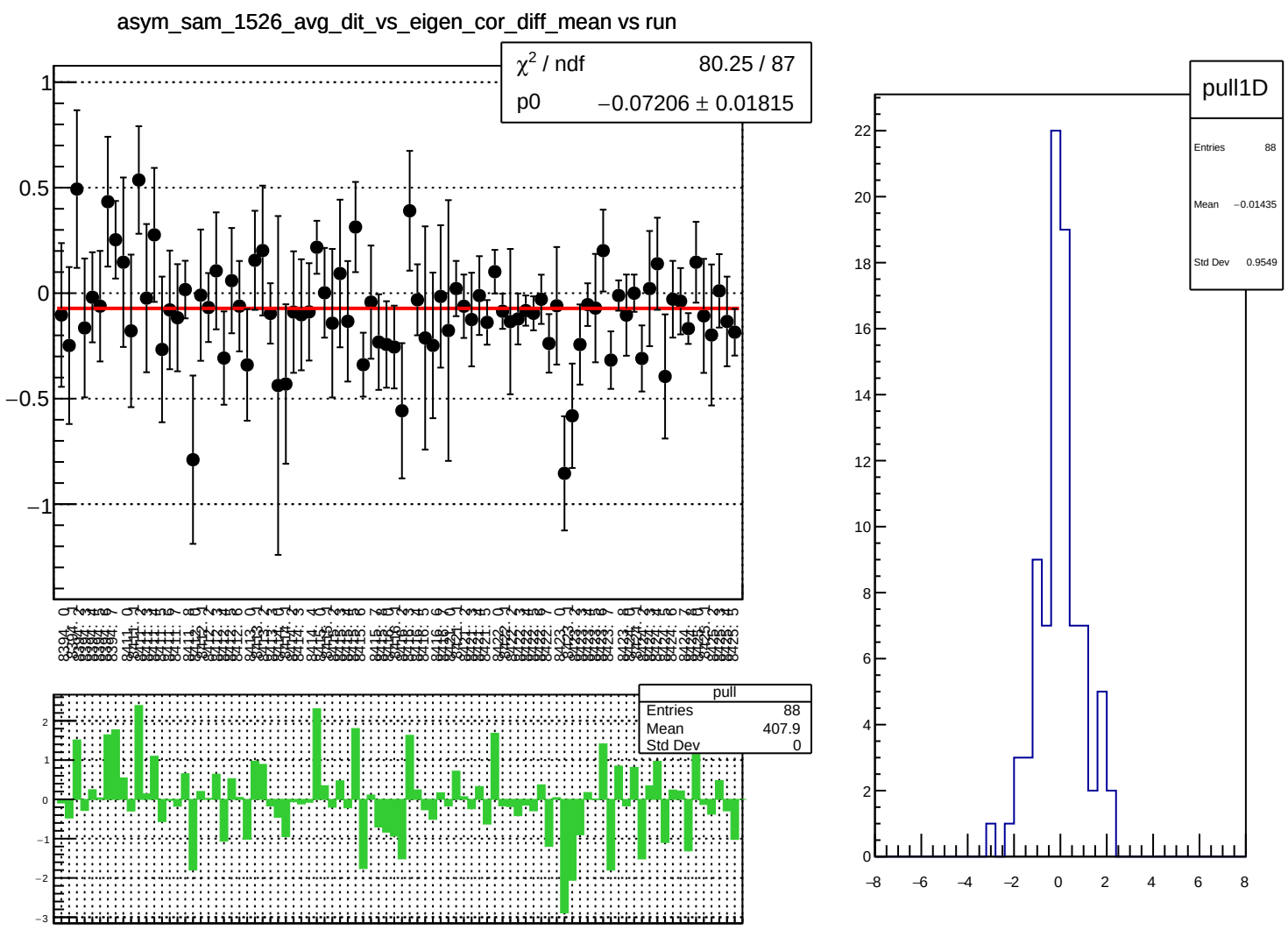

asym_sam_1526_avg_rms vs run
χ² / ndf 1.397e+04 / 87
p0 817.6 ± 0.631
1000
950
900
850
800
750
700
650

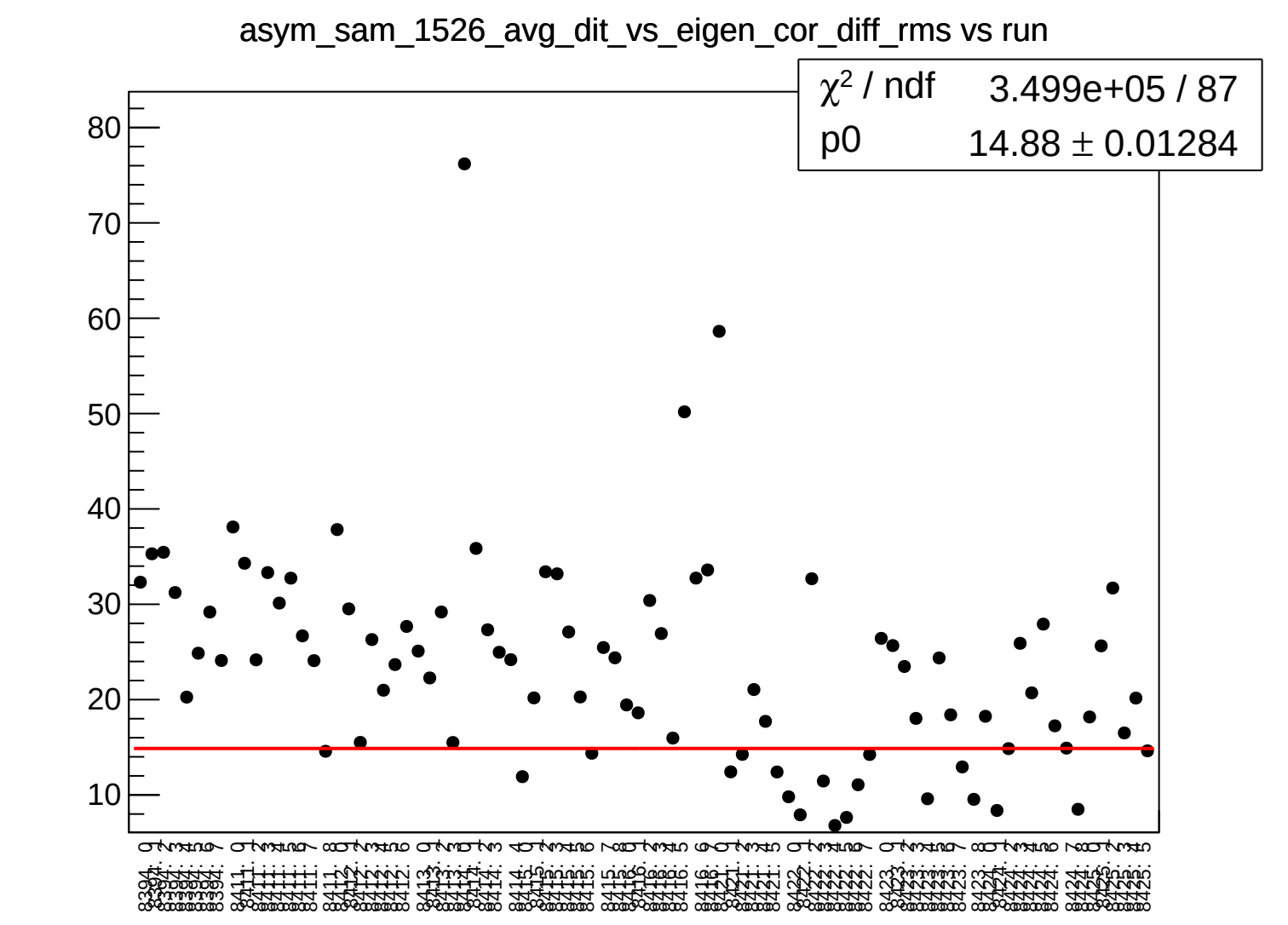

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.03 / 87
p0 −7.512e−14 ± 1.118e−13
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 88
Mean 36.43
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.09669
Std Dev 0.9724
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

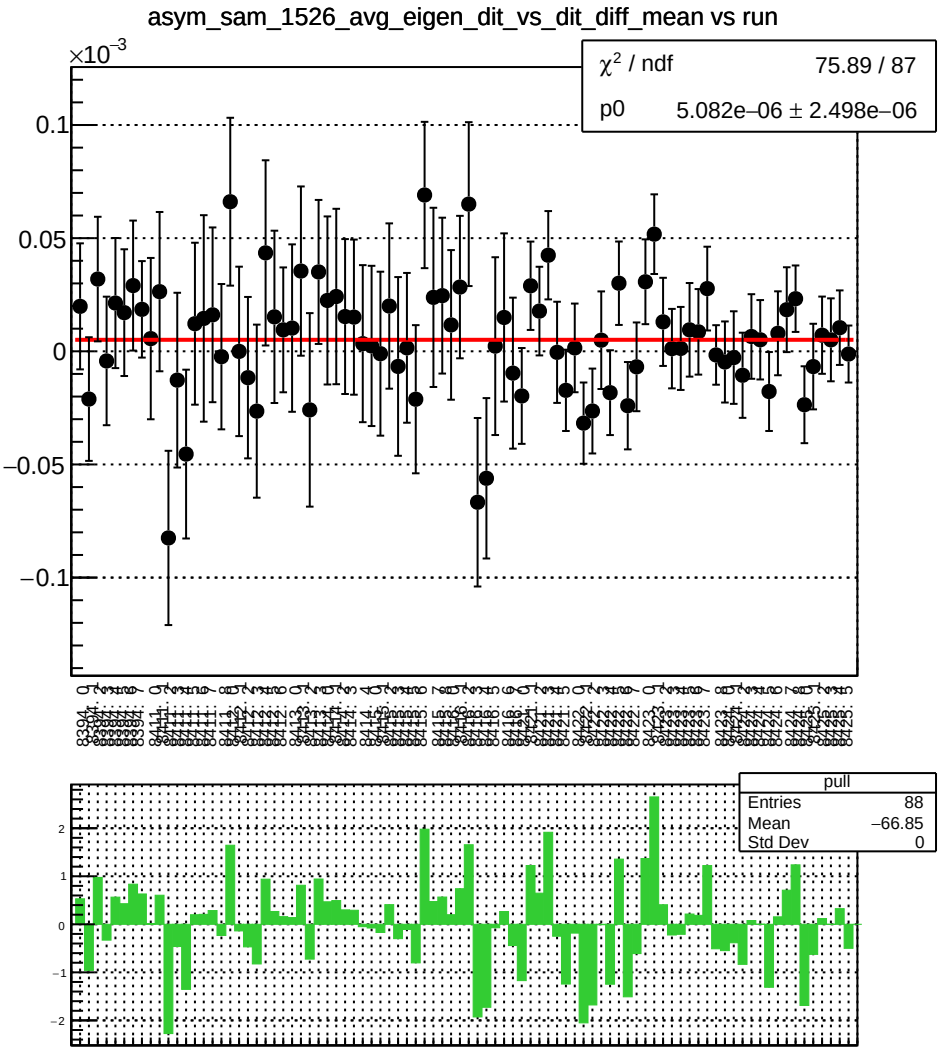

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.096e+06 / 87
p0 6.111e−11 ± 7.907e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

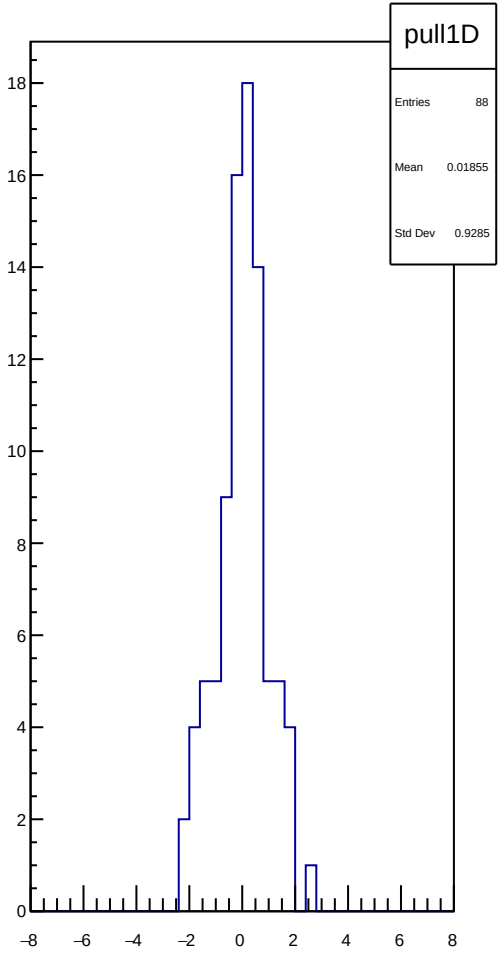

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80.25 / 87
p0 −0.07206 ± 0.01815
pull
Entries 88
Mean 407.9
Std Dev 0
pull1D
Entries 88
Mean −0.01435
Std Dev 0.9549

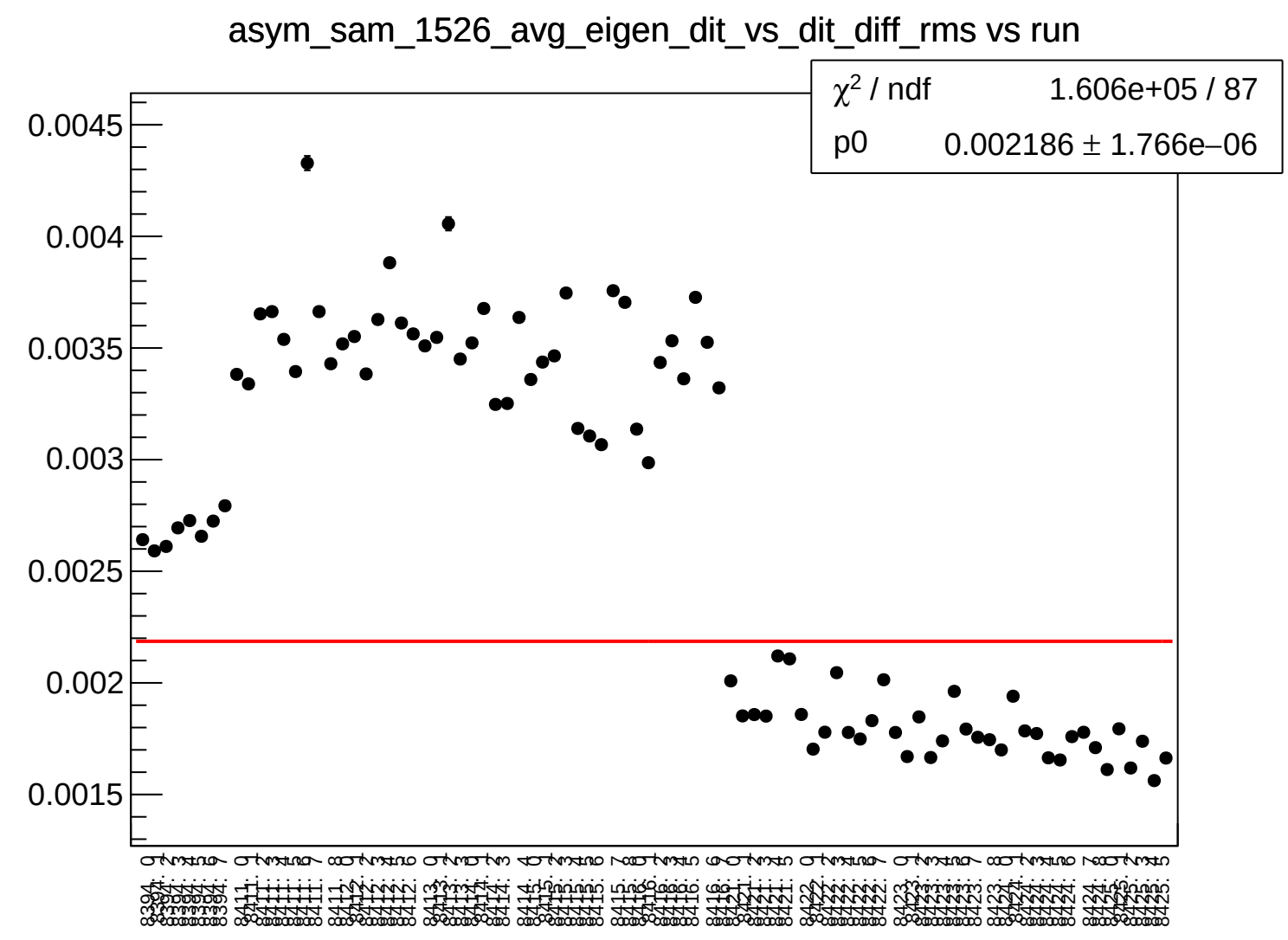

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.499e+05 / 87
p0 14.88 ± 0.01284
80
70
60
50
40
30
20
10

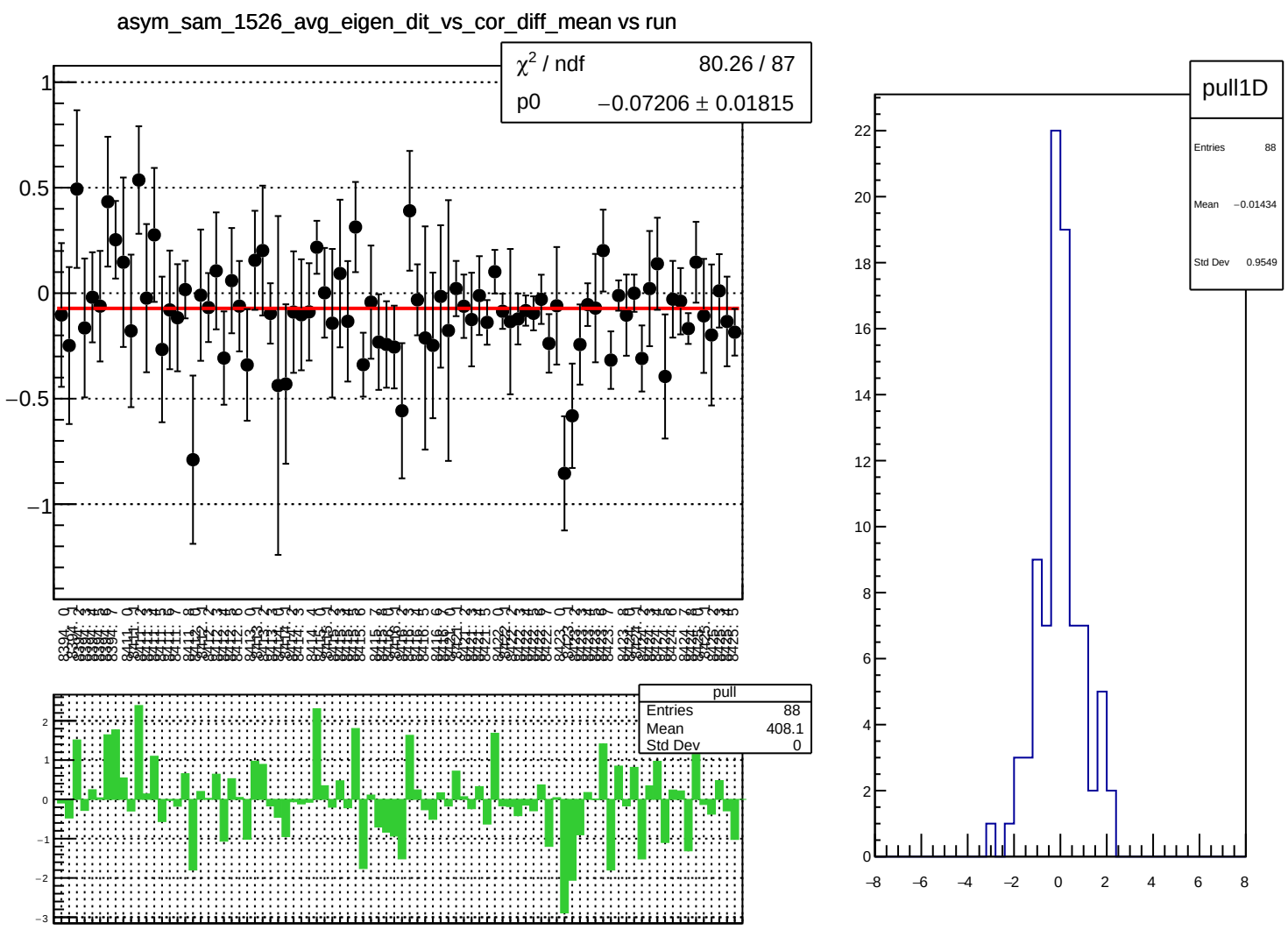

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.25 / 87
p0 −0.07206 ± 0.01815
pull
Entries 88
Mean 407.9
Std Dev 0
pull1D
Entries 88
Mean −0.01435
Std Dev 0.9549

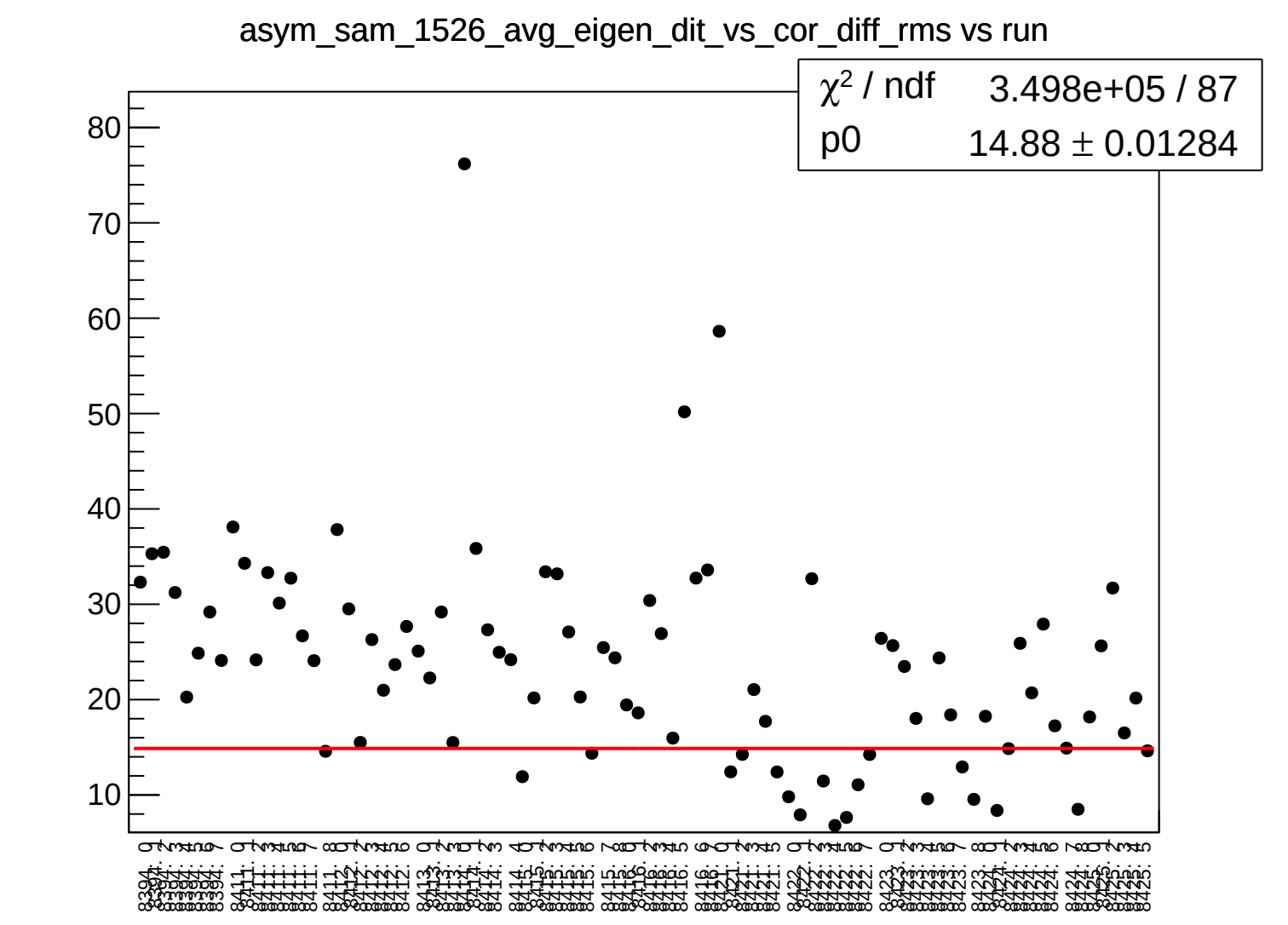

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.499e+05 / 87
p0 14.88 ± 0.01284
80
70
60
50
40
30
20
10

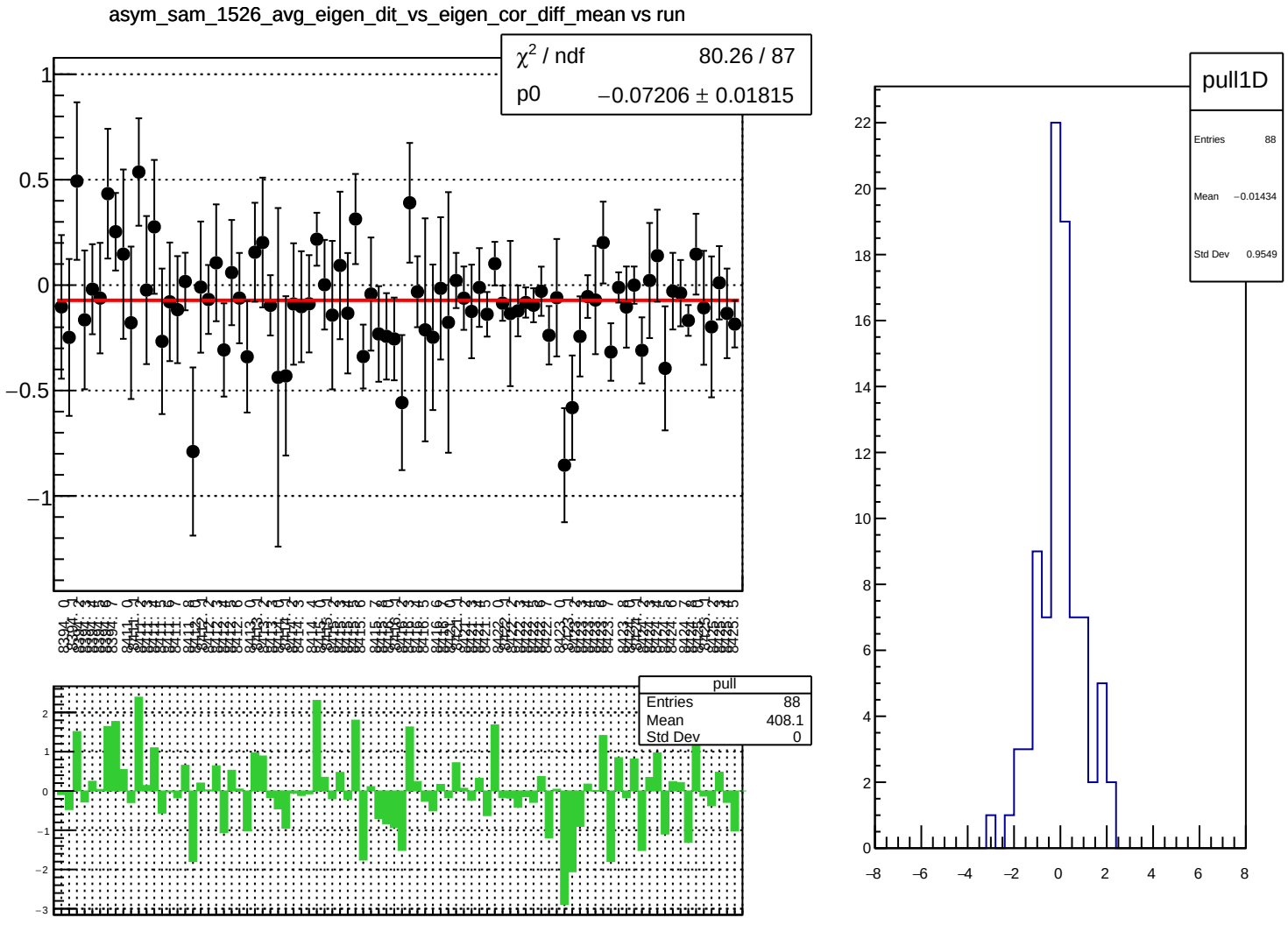

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.89 / 87
p0 5.082e−06 ± 2.498e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean −66.85
Std Dev 0
2
1
0
−1
−2

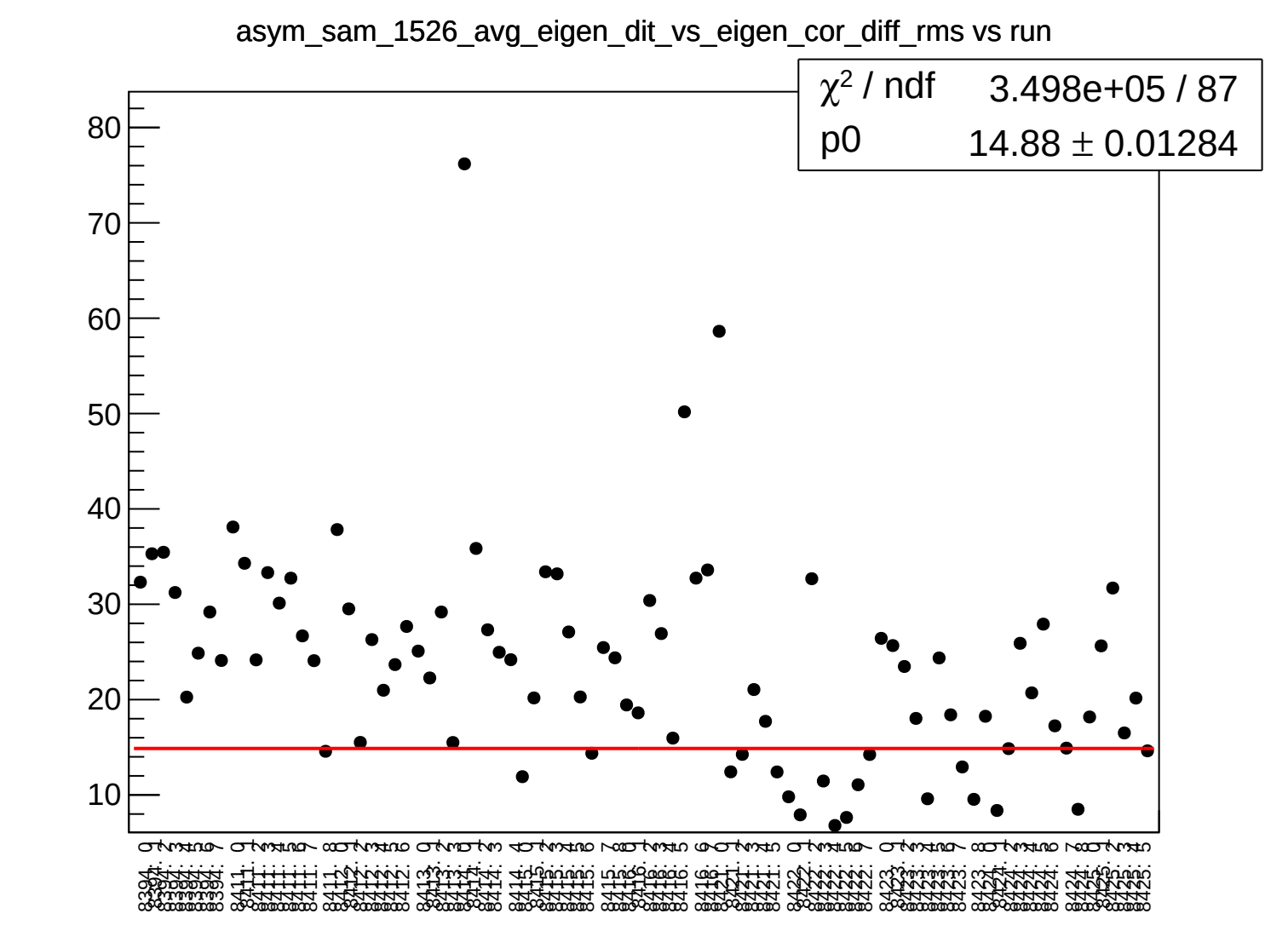

pull1D
Entries 88
Mean 0.01855
Std Dev 0.9285
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

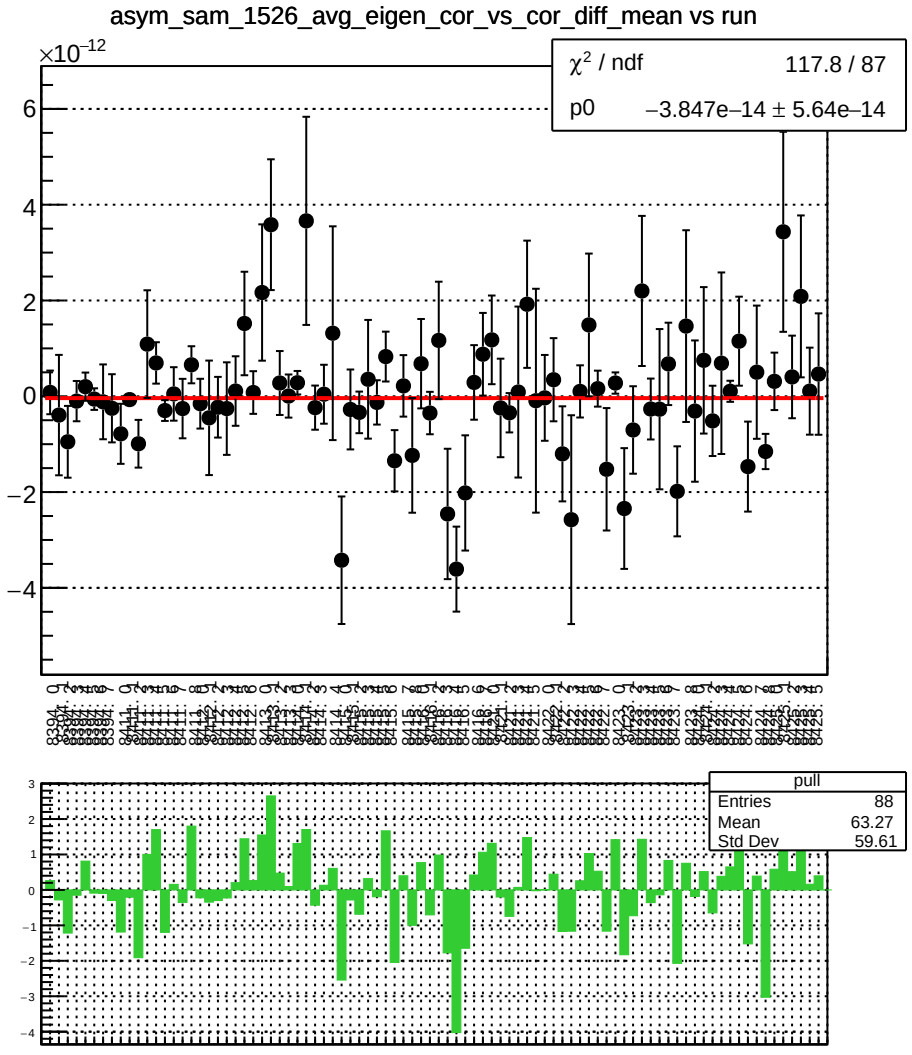

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.606e+05 / 87
p0 0.002186 ± 1.766e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

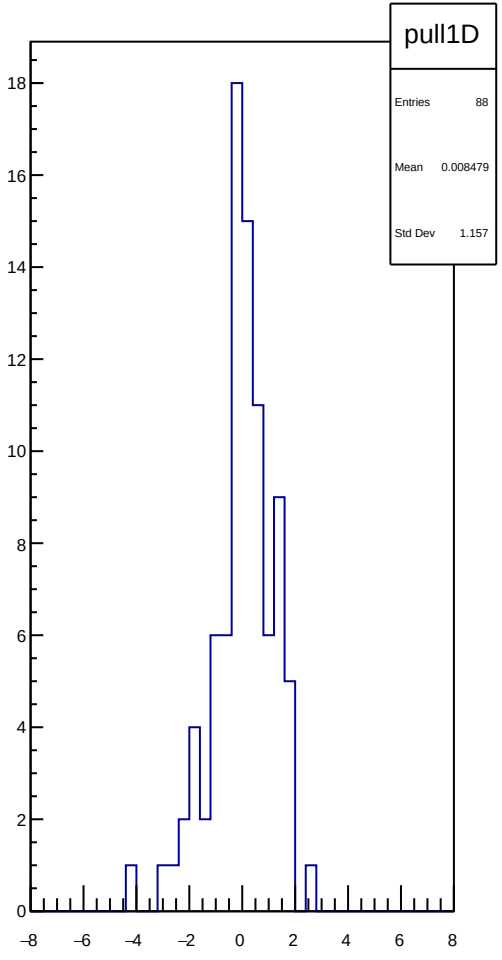

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.26 / 87
p0 −0.07206 ± 0.01815
pull
Entries 88
Mean 408.1
Std Dev 0
pull1D
Entries 88
Mean −0.01434
Std Dev 0.9549

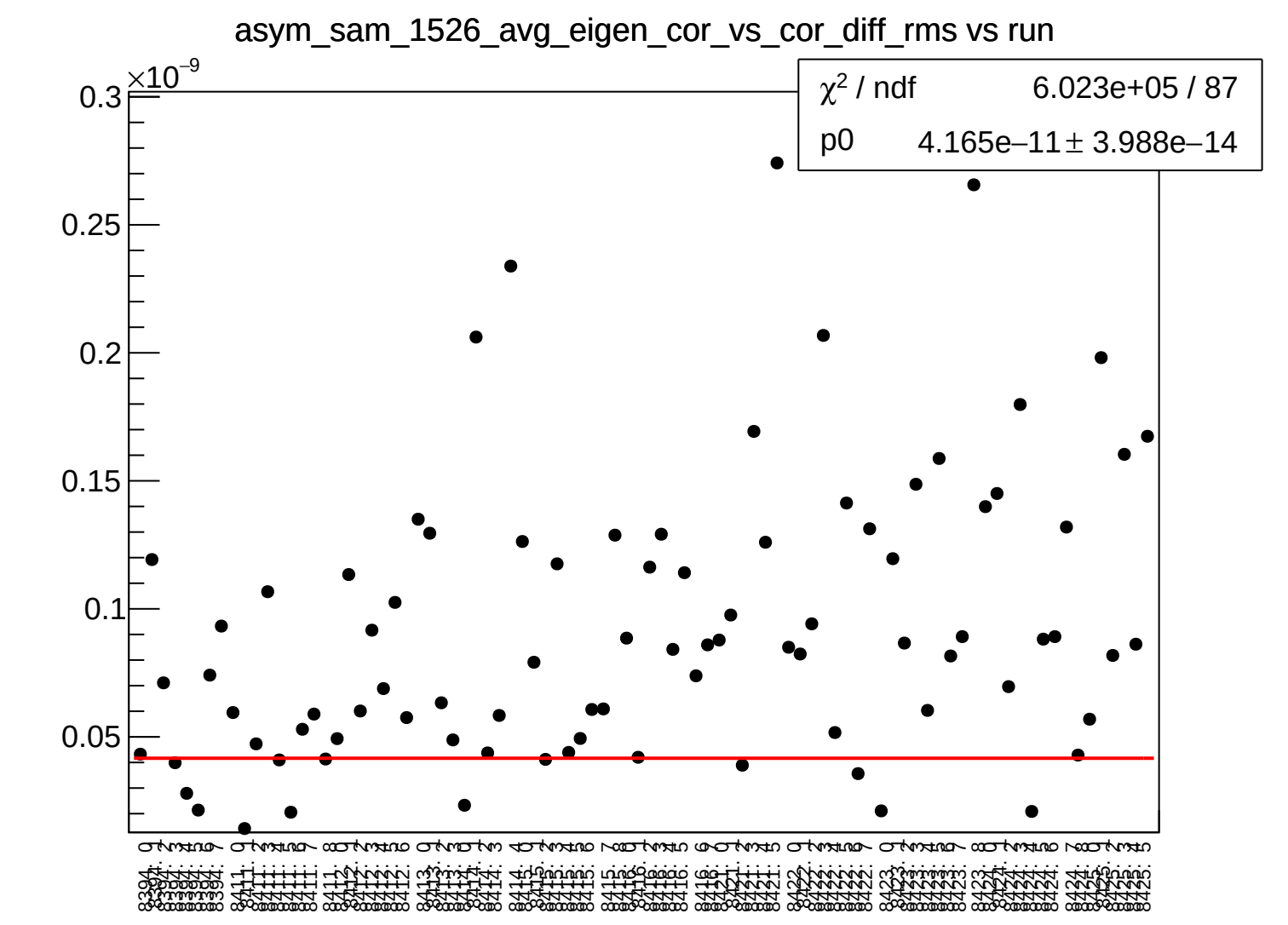

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.498e+05 / 87
p0 14.88 ± 0.01284
80
70
60
50
40
30
20
10

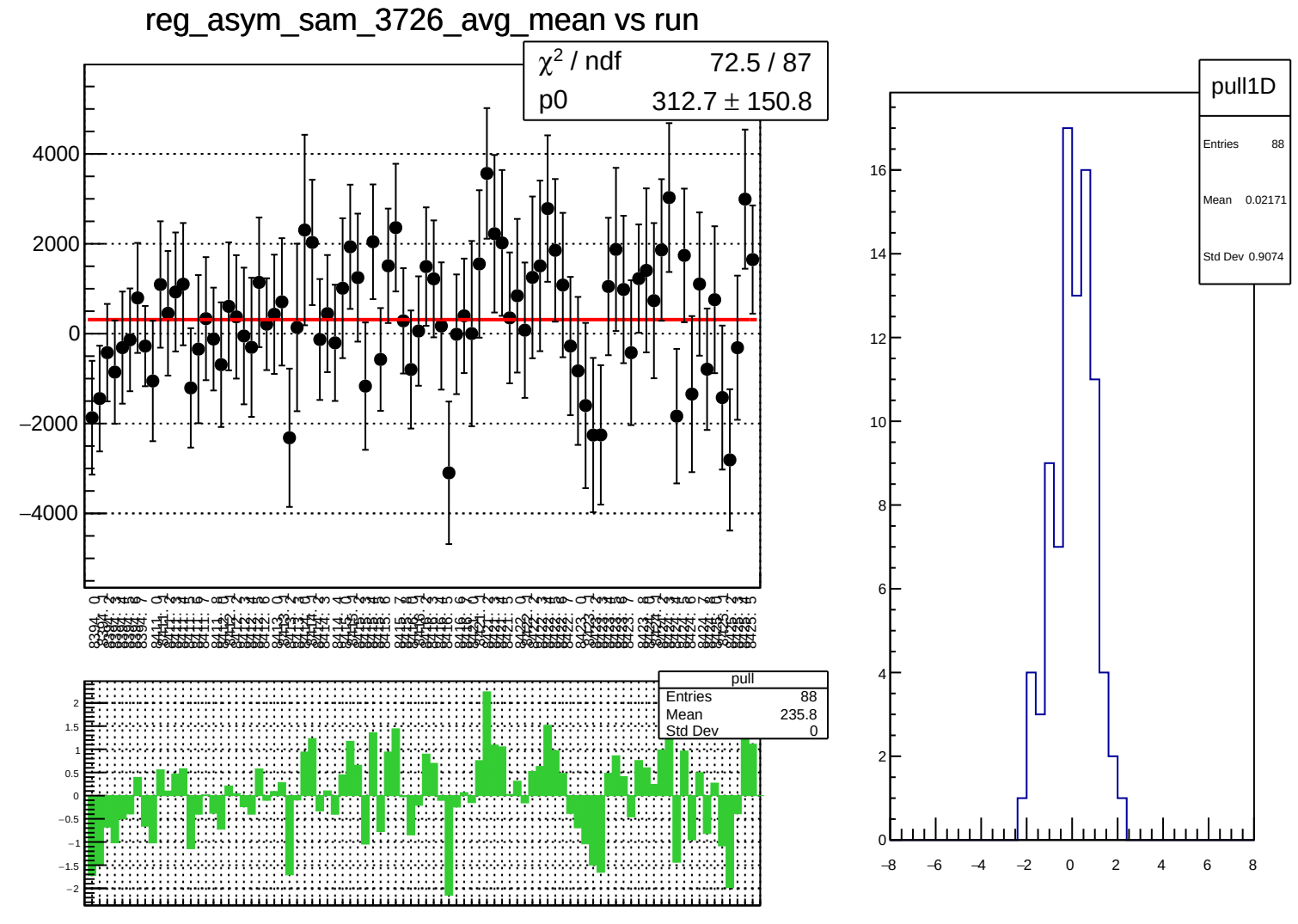

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.26 / 87
p0 −0.07206 ± 0.01815
pull
Entries 88
Mean 408.1
Std Dev 0
pull1D
Entries 88
Mean −0.01434
Std Dev 0.9549

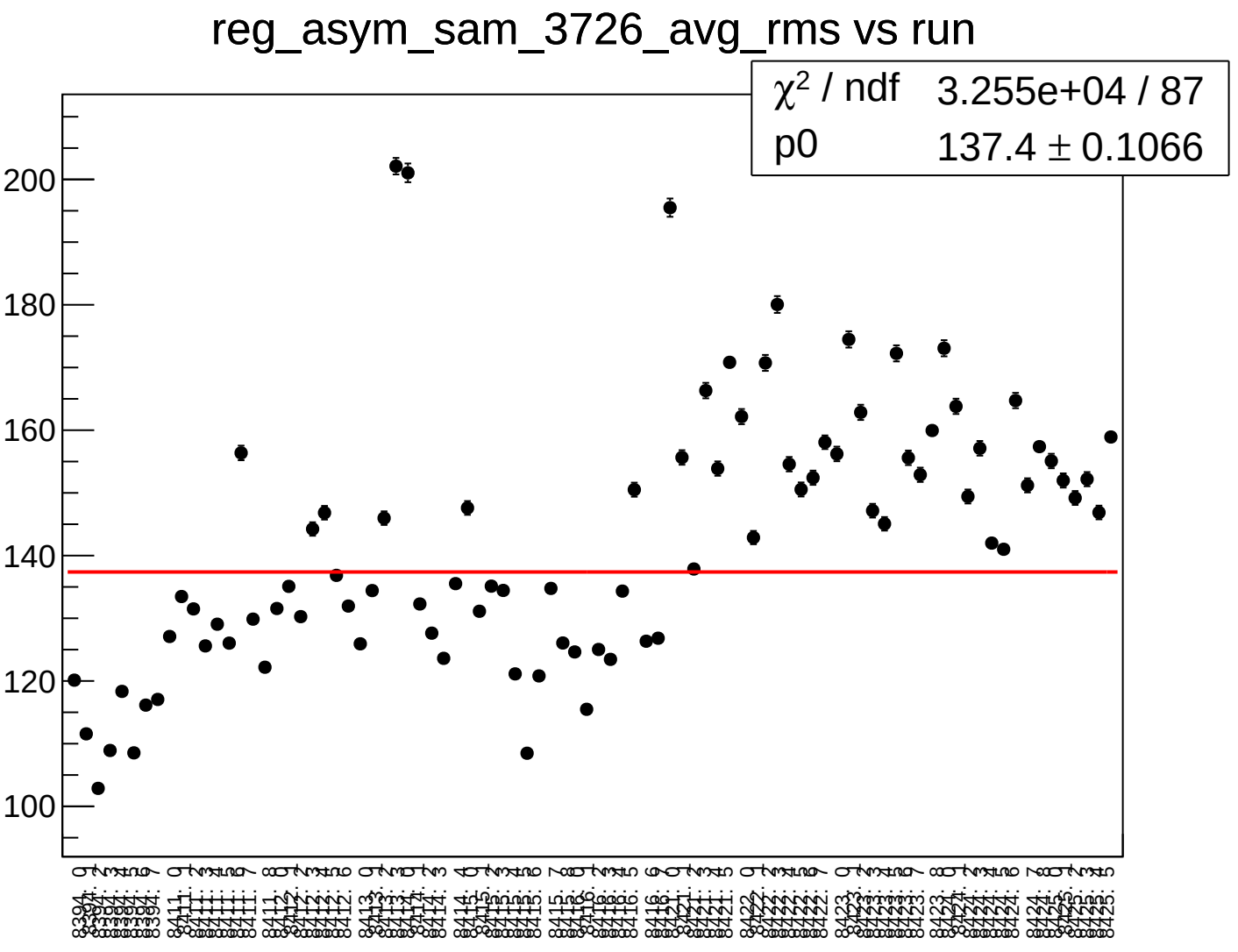

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.498e+05 / 87
p0 14.88 ± 0.01284
80
70
60
50
40
30
20
10

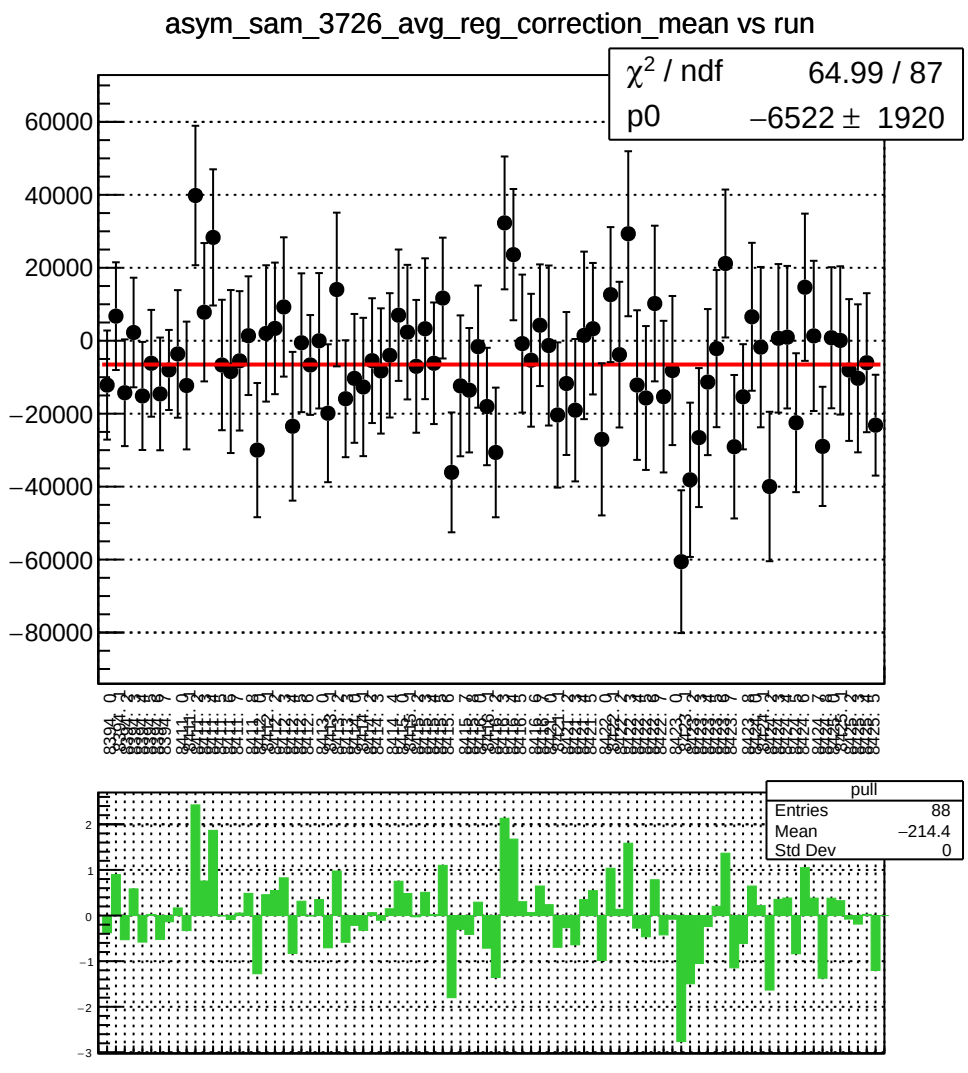

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 117.8 / 87
p0 −3.847e−14 ± 5.64e−14
pull
Entries 88
Mean 63.27
Std Dev 59.61

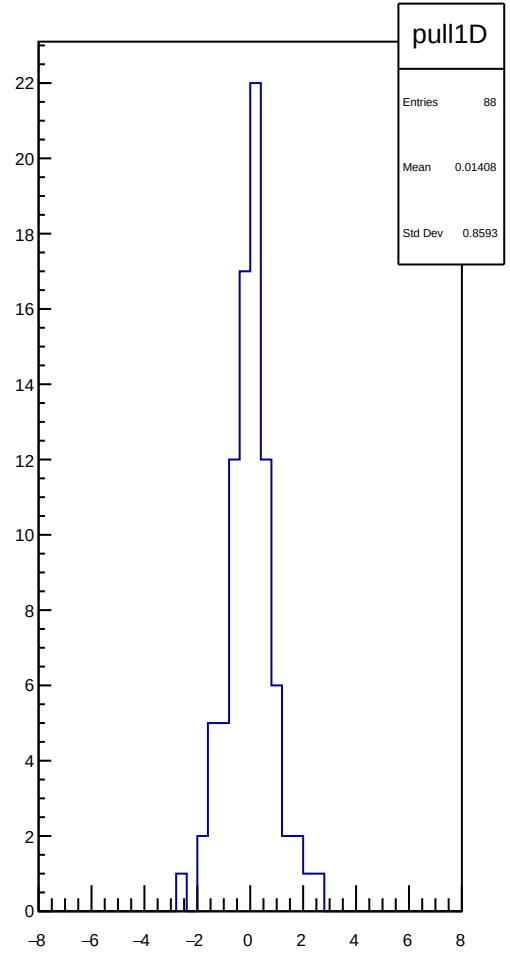

pull1D
Entries 88
Mean 0.008479
Std Dev 1.157

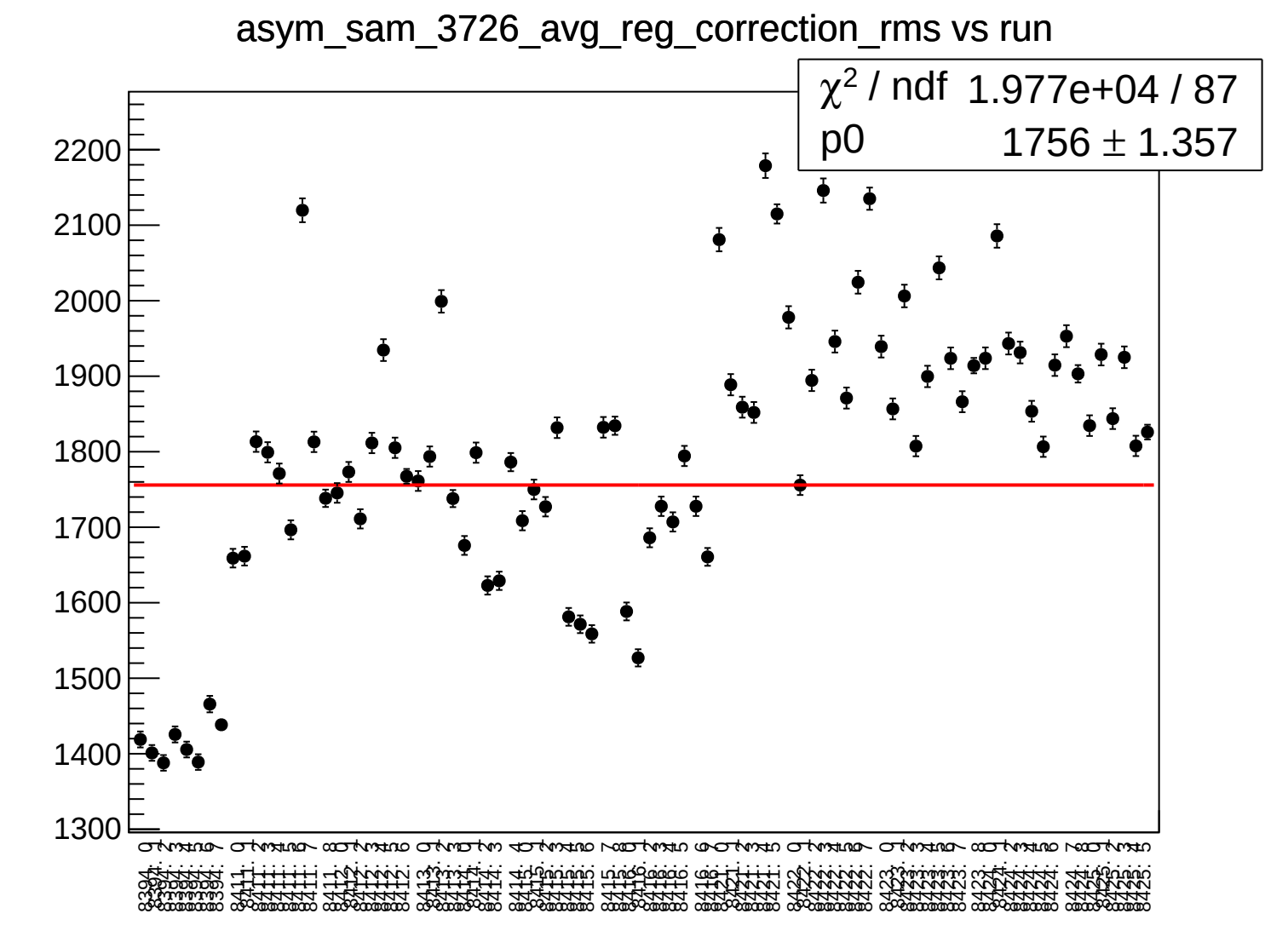

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 6.023e+05 / 87
p0 4.165e−11 ± 3.988e−14

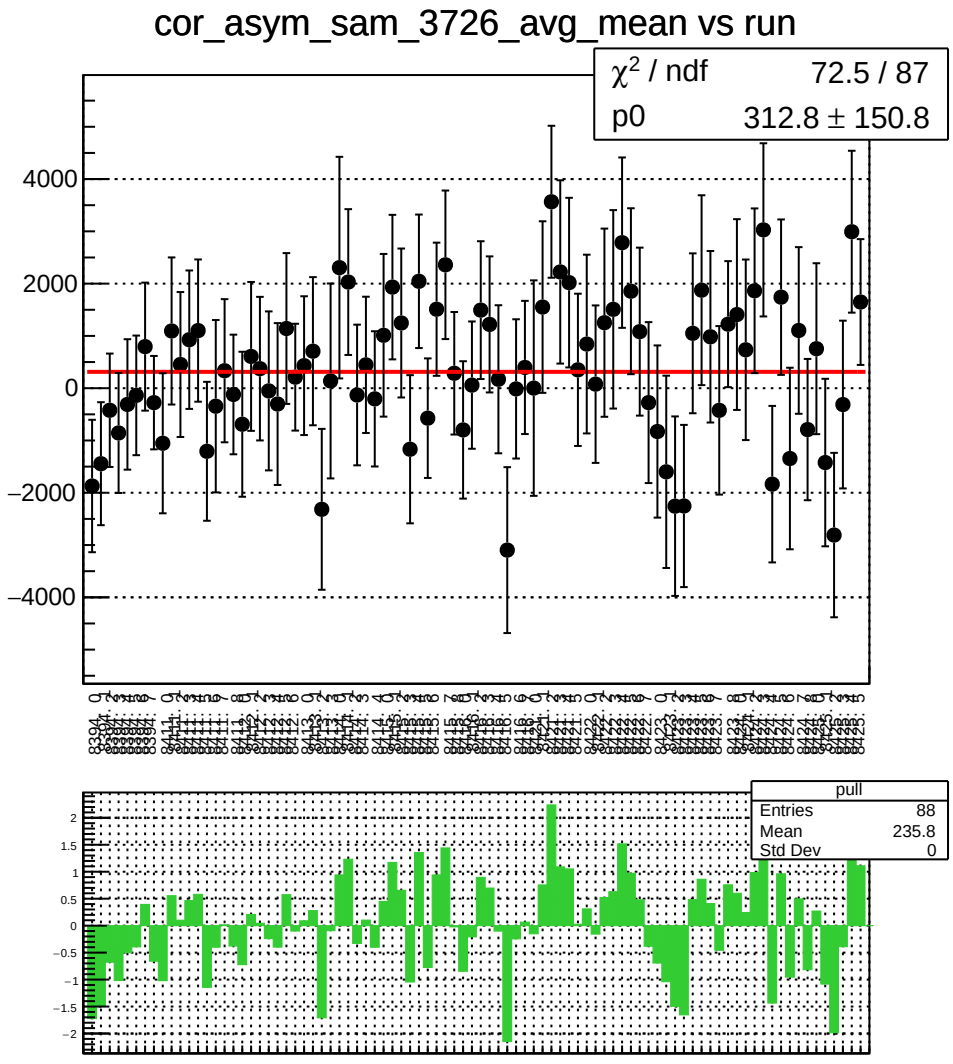

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 72.5 / 87
p0 312.7 ± 150.8
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 235.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean 0.02171
Std Dev 0.9074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

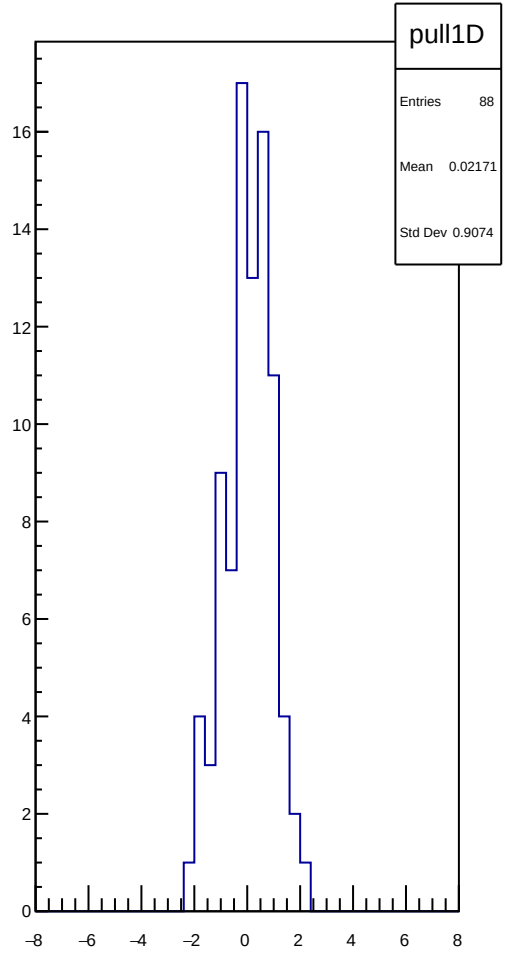

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 3.255e+04 / 87
p0 137.4 ± 0.1066
200
180
160
140
120
100

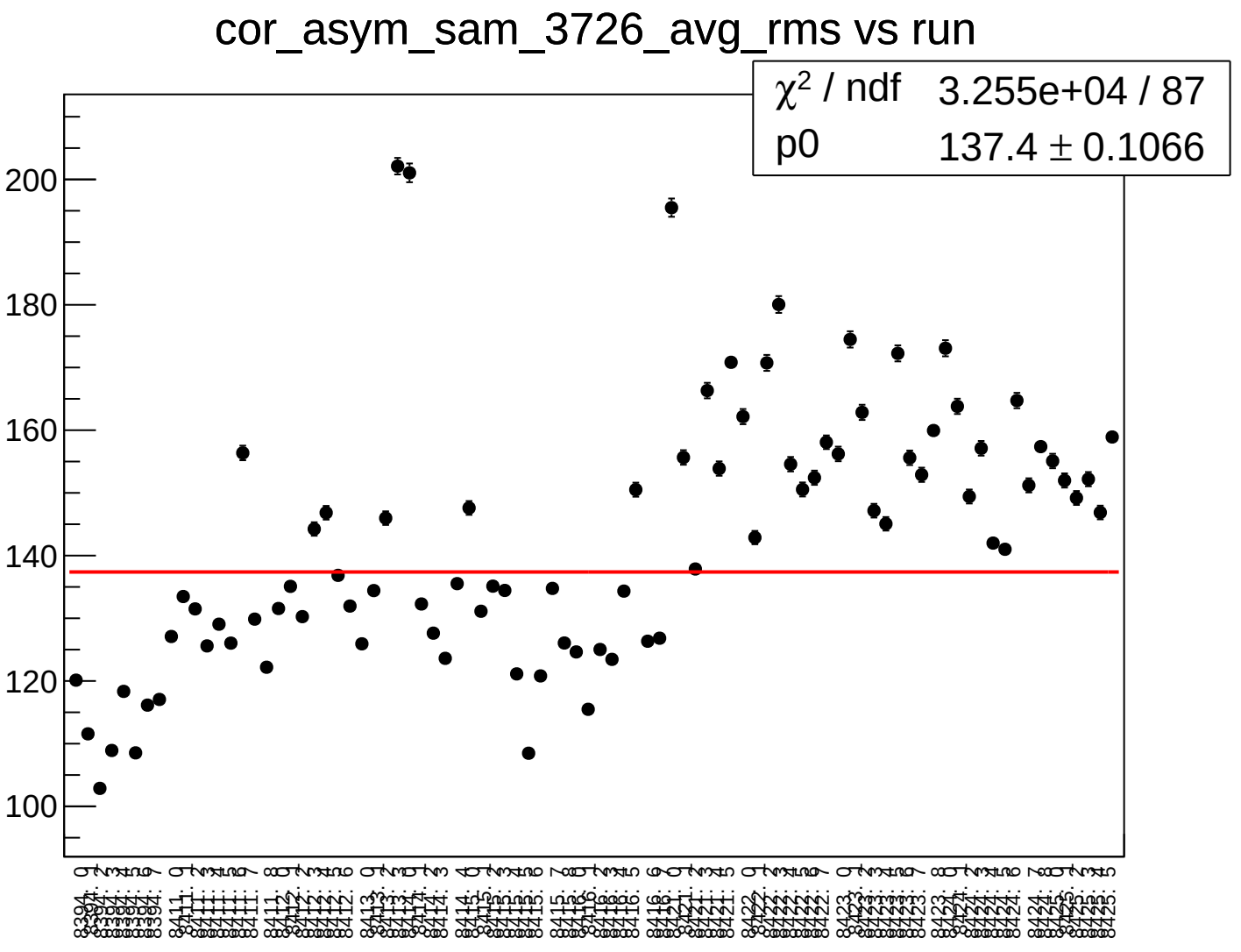

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 64.99 / 87
p0 −6522 ± 1920
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −214.4
Std Dev 0
2
1
0
−1
−2
−3

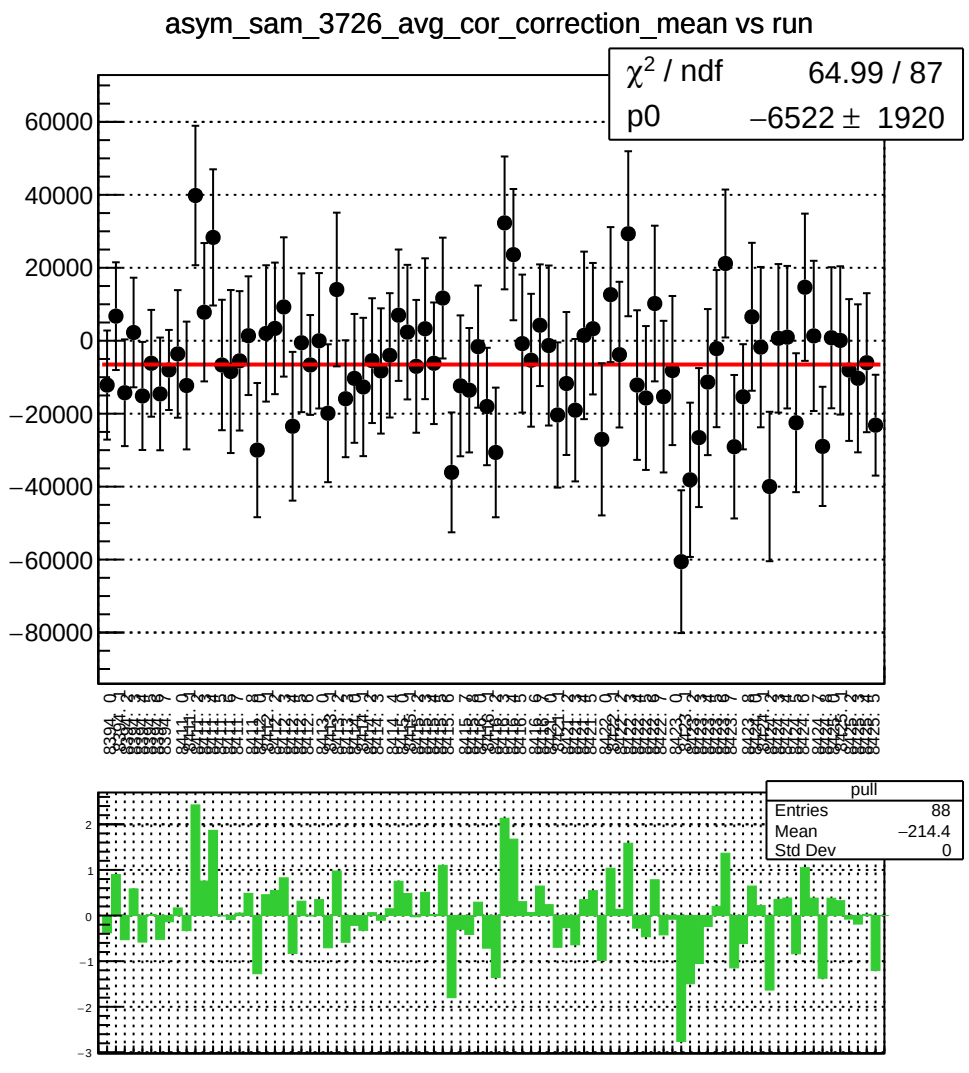

pull1D
Entries 88
Mean 0.01408
Std Dev 0.8593
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

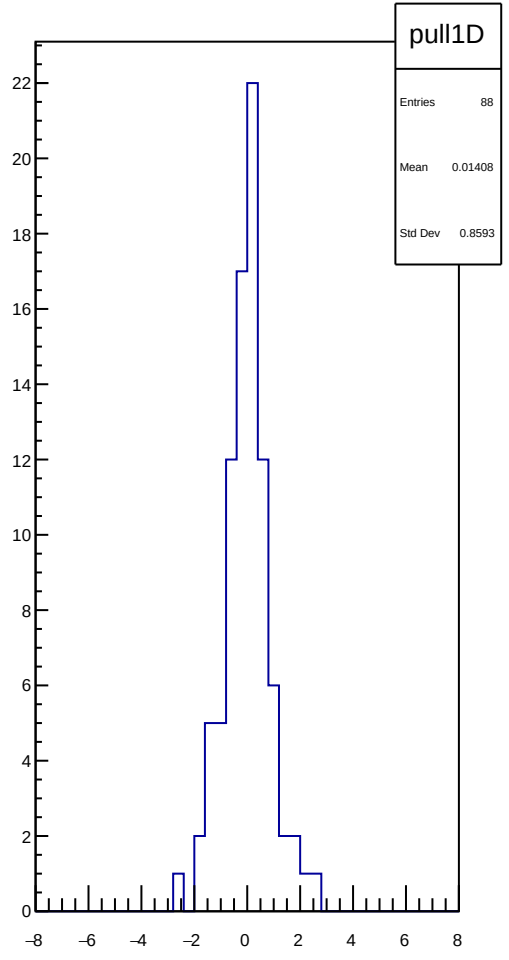

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 1.977e+04 / 87
p0 1756 ± 1.357
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300

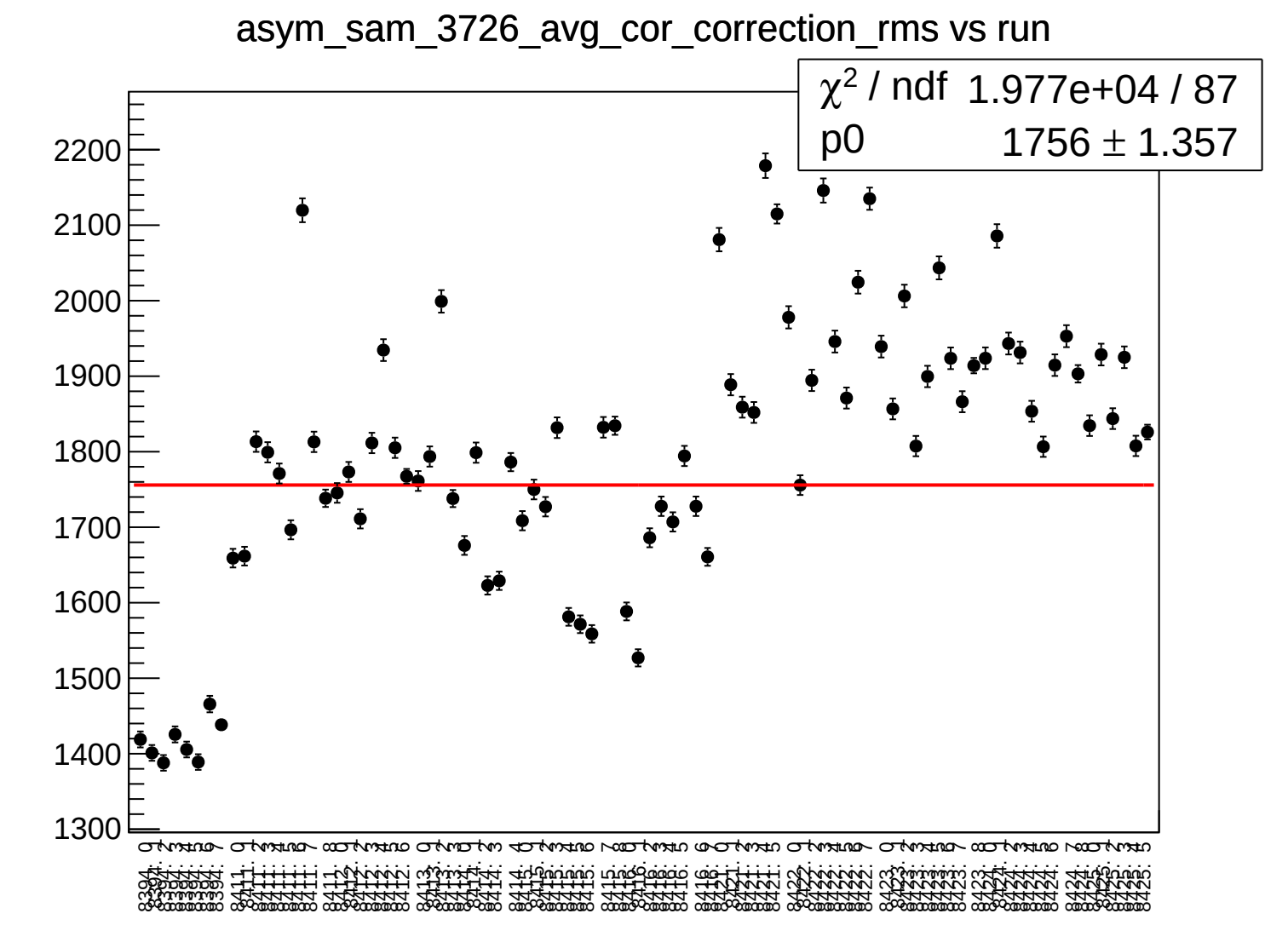

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 72.5 / 87
p0 312.8 ± 150.8
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 235.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

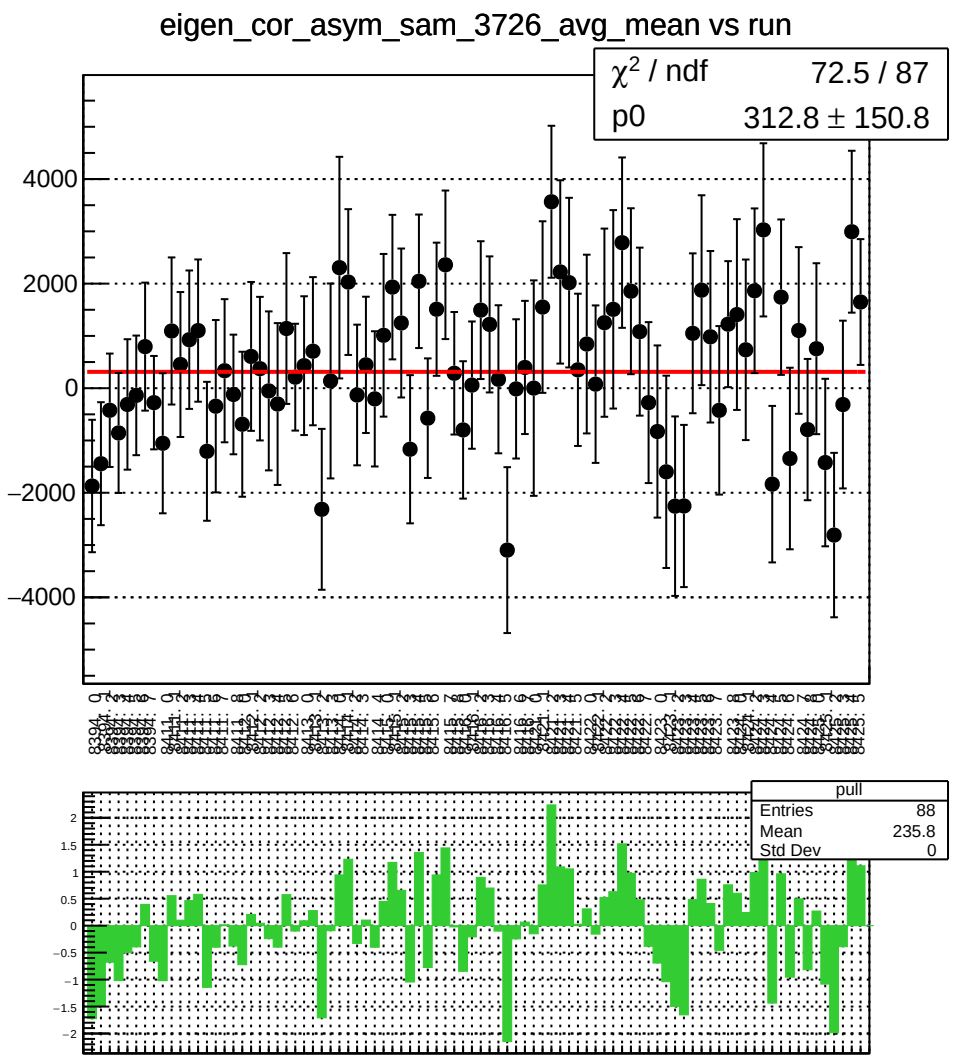

pull1D
Entries 88
Mean 0.02171
Std Dev 0.9074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

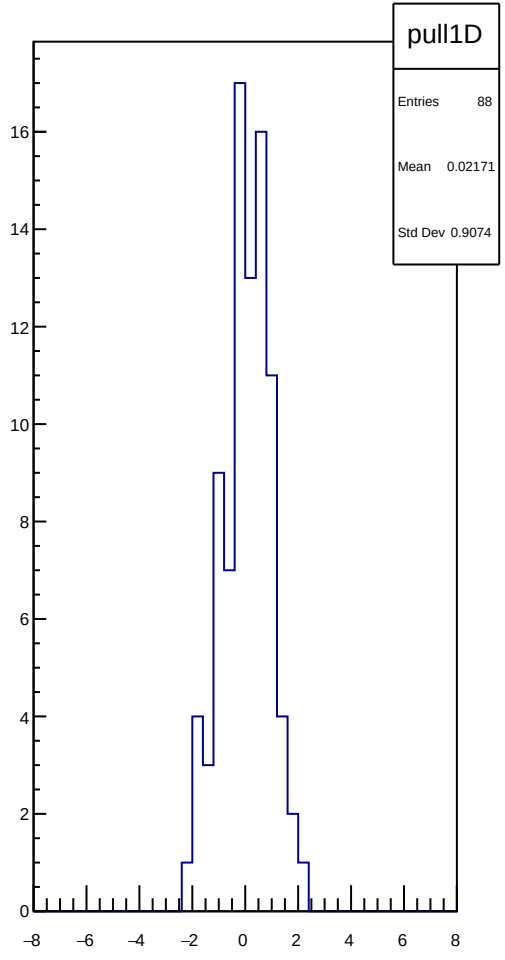

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 3.255e+04 / 87
p0 137.4 ± 0.1066
200
180
160
140
120
100

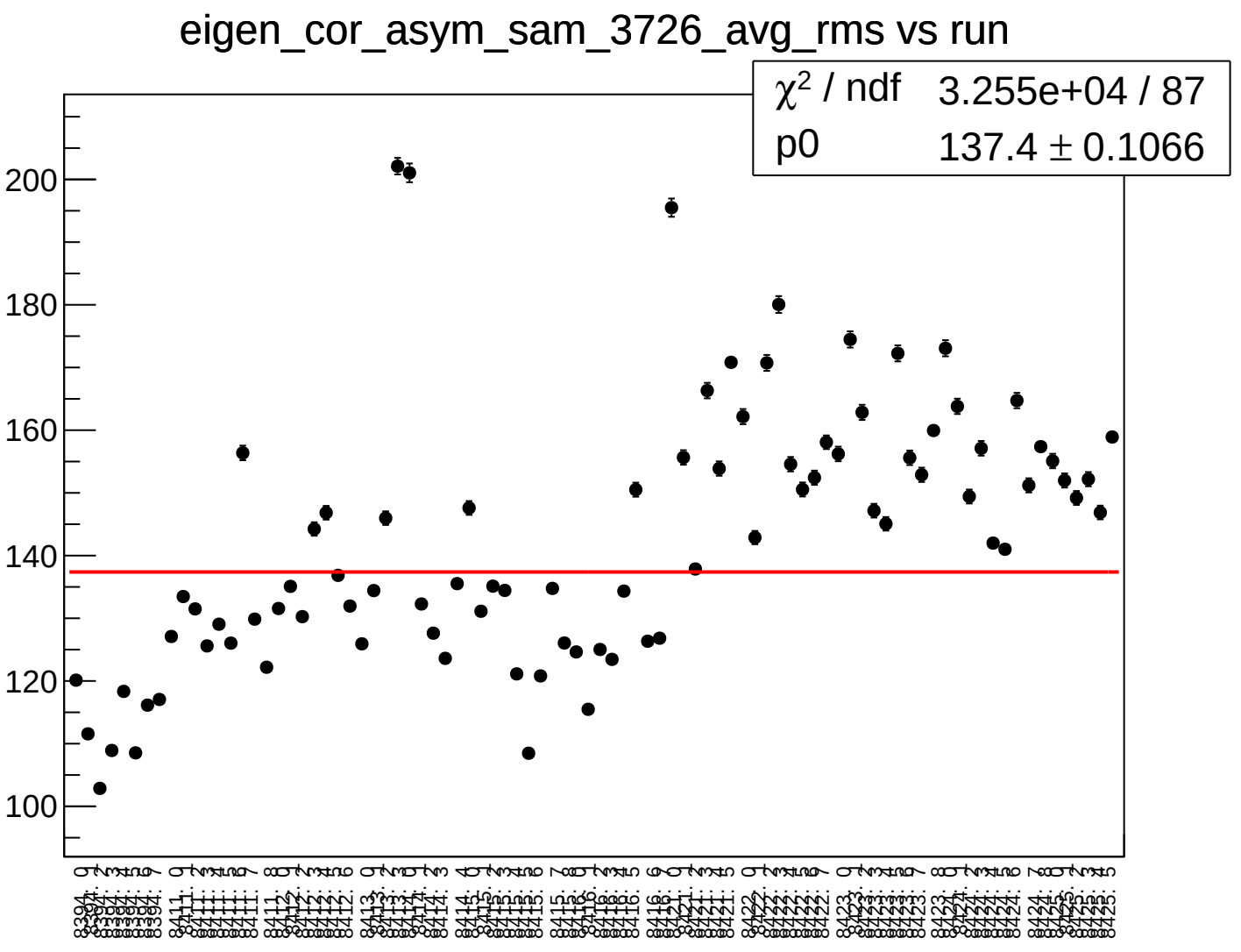

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 64.99 / 87
p0 −6522 ± 1920
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −214.4
Std Dev 0
2
1
0
−1
−2
−3

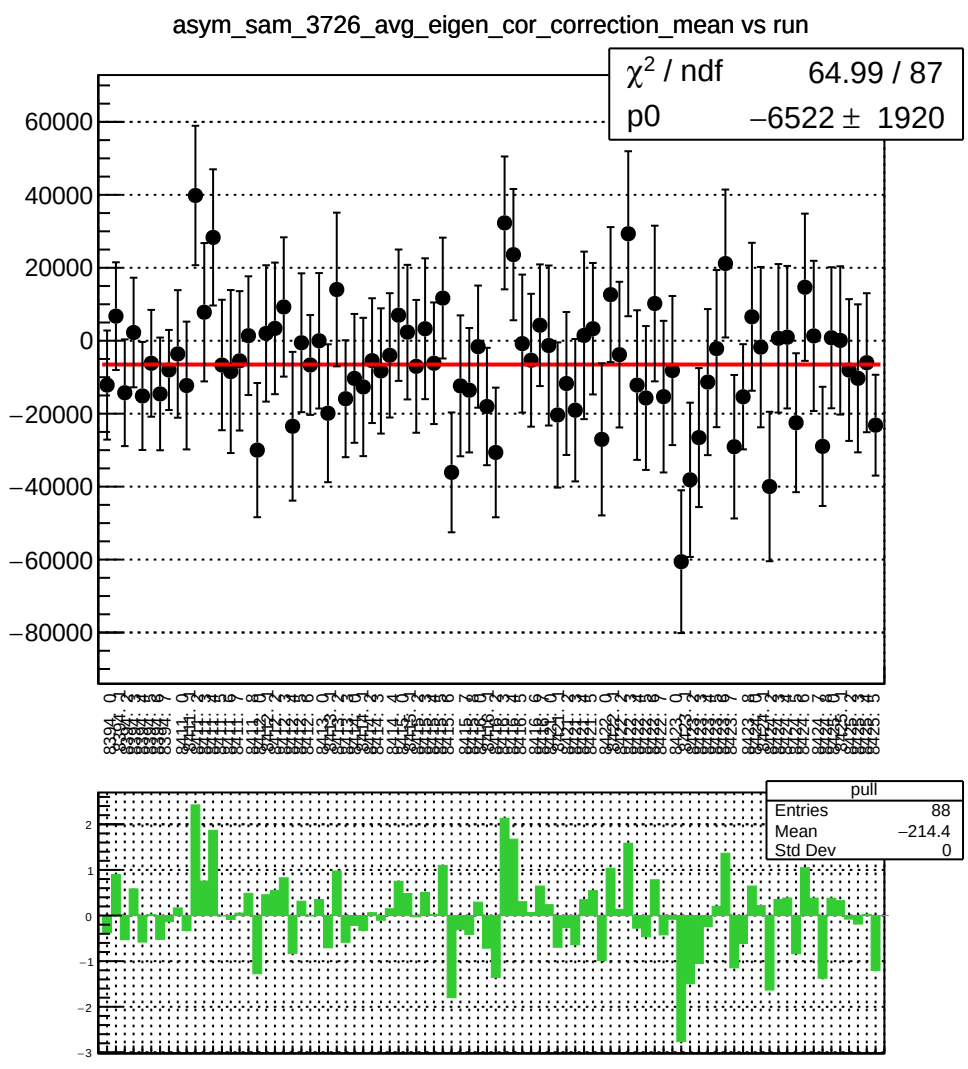

pull1D
Entries 88
Mean 0.01408
Std Dev 0.8593
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

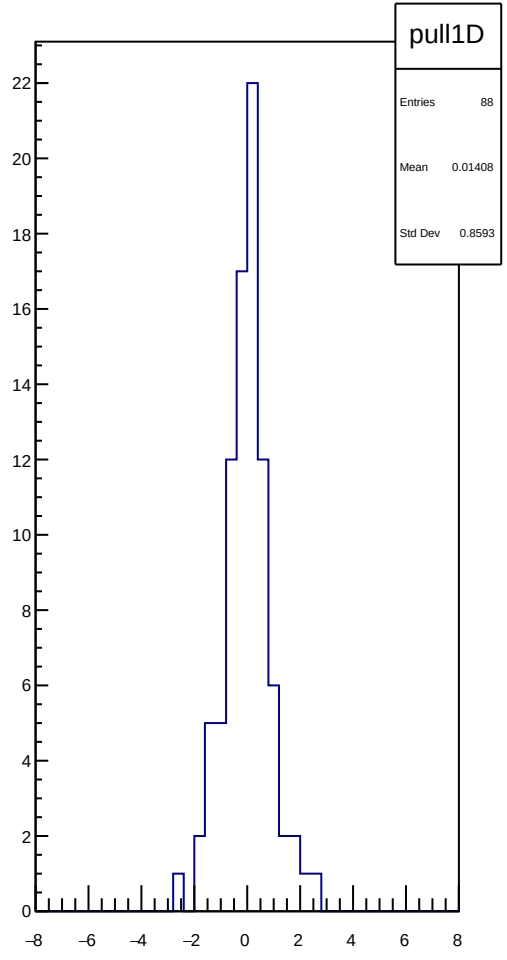

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 1.977e+04 / 87
p0 1756 ± 1.357
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300

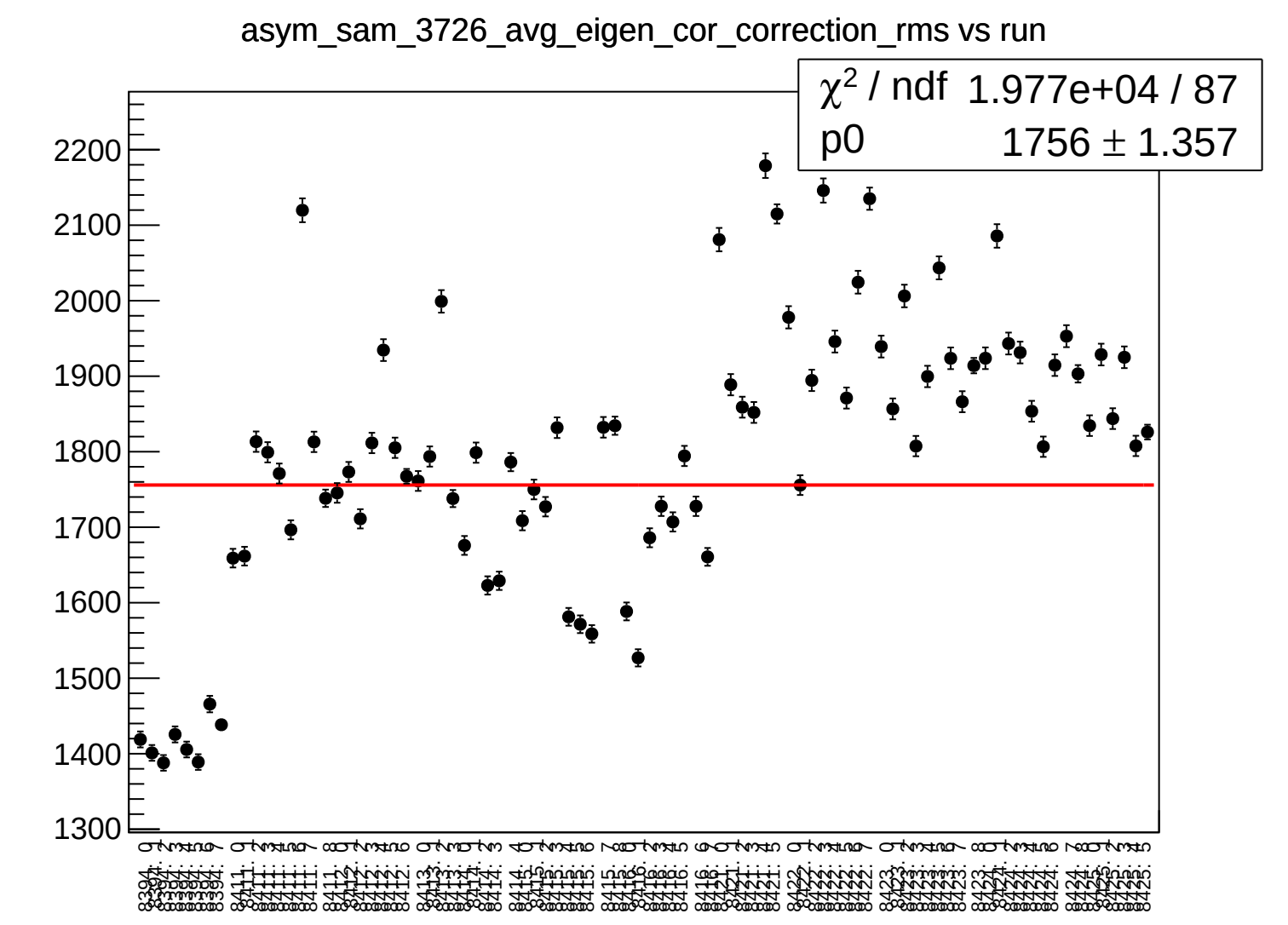

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 72.5 / 87
p0 312.8 ± 150.8
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 235.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

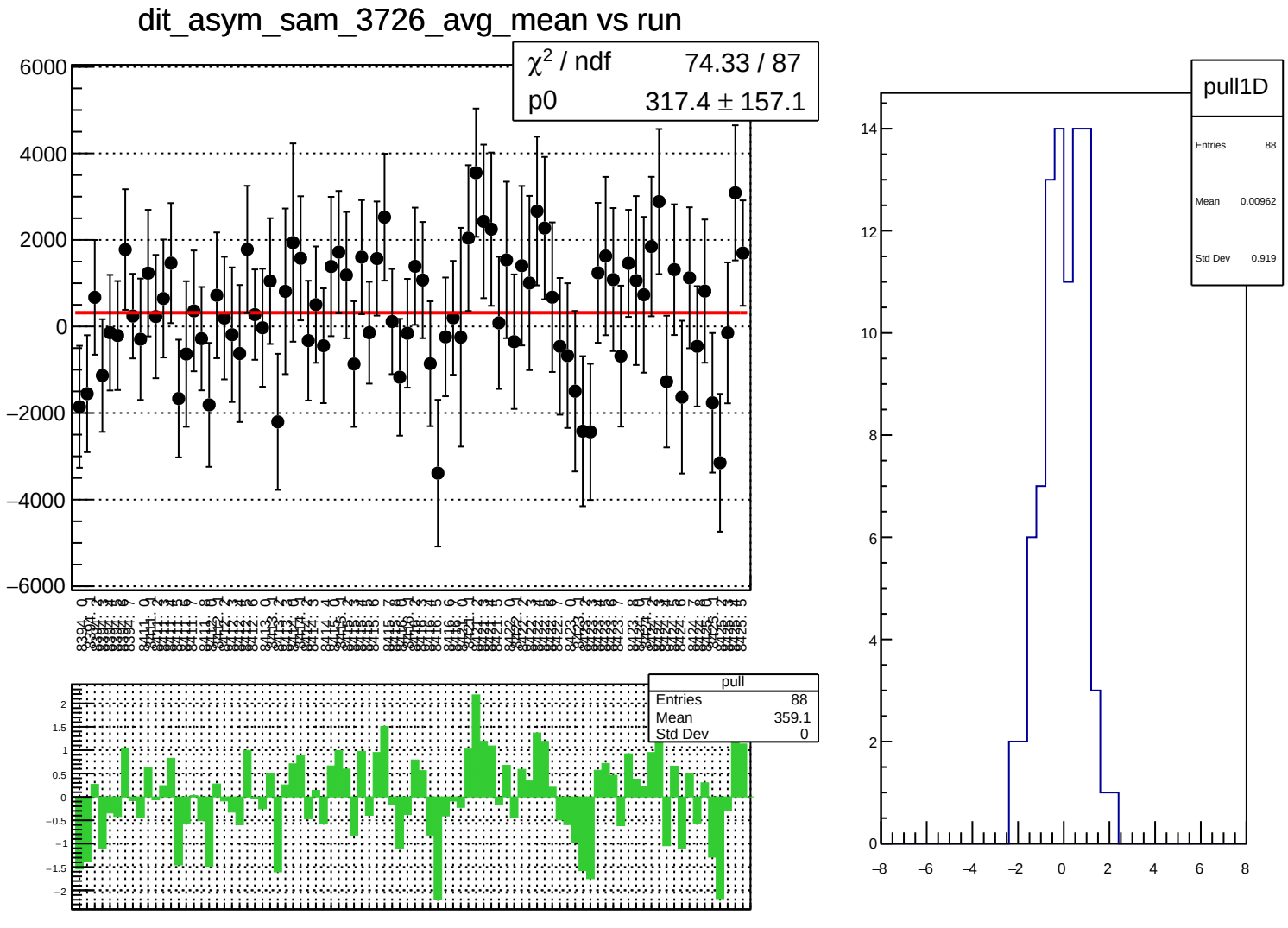

pull1D
Entries 88
Mean 0.02171
Std Dev 0.9074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

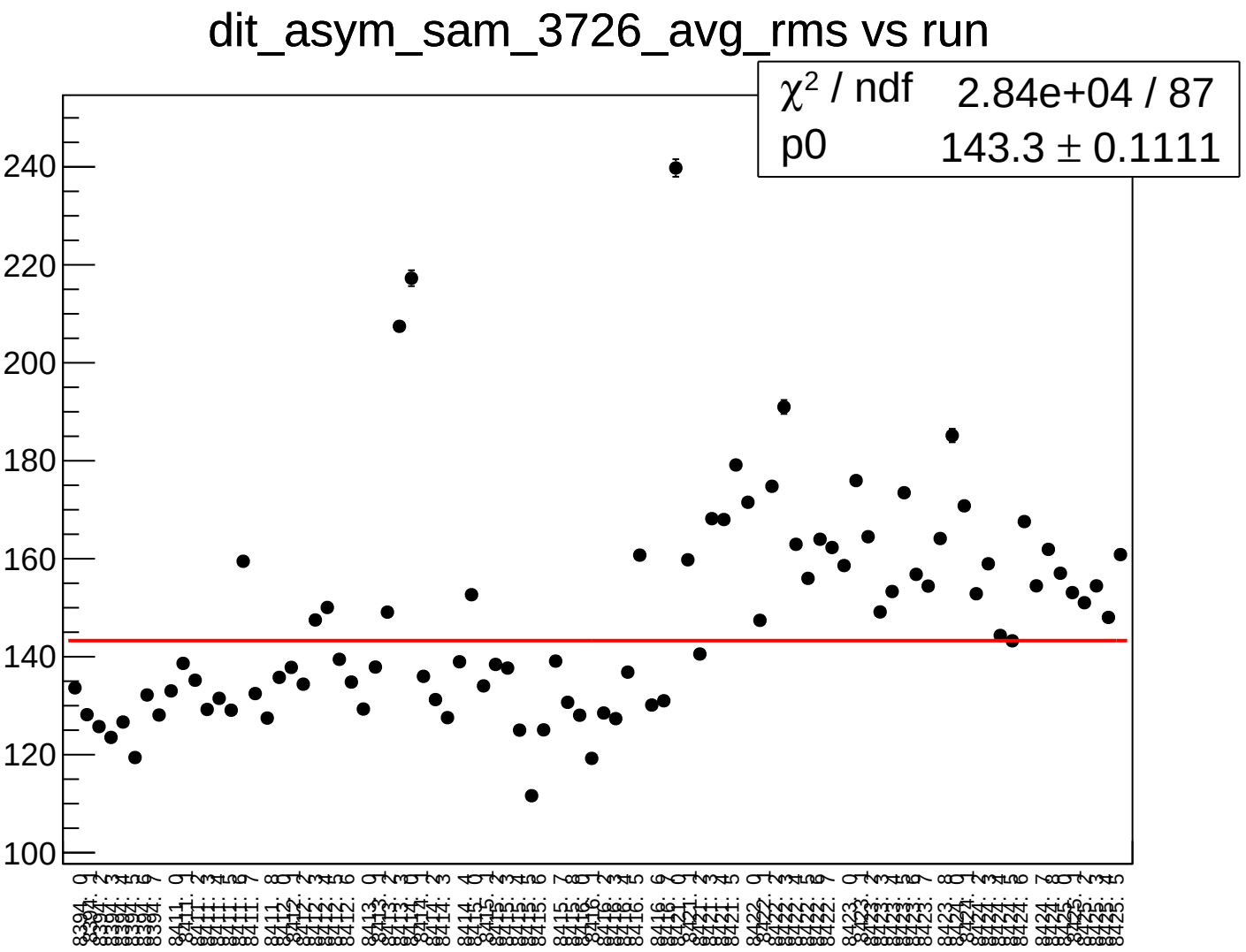

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 3.255e+04 / 87
p0 137.4 ± 0.1066
200
180
160
140
120
100

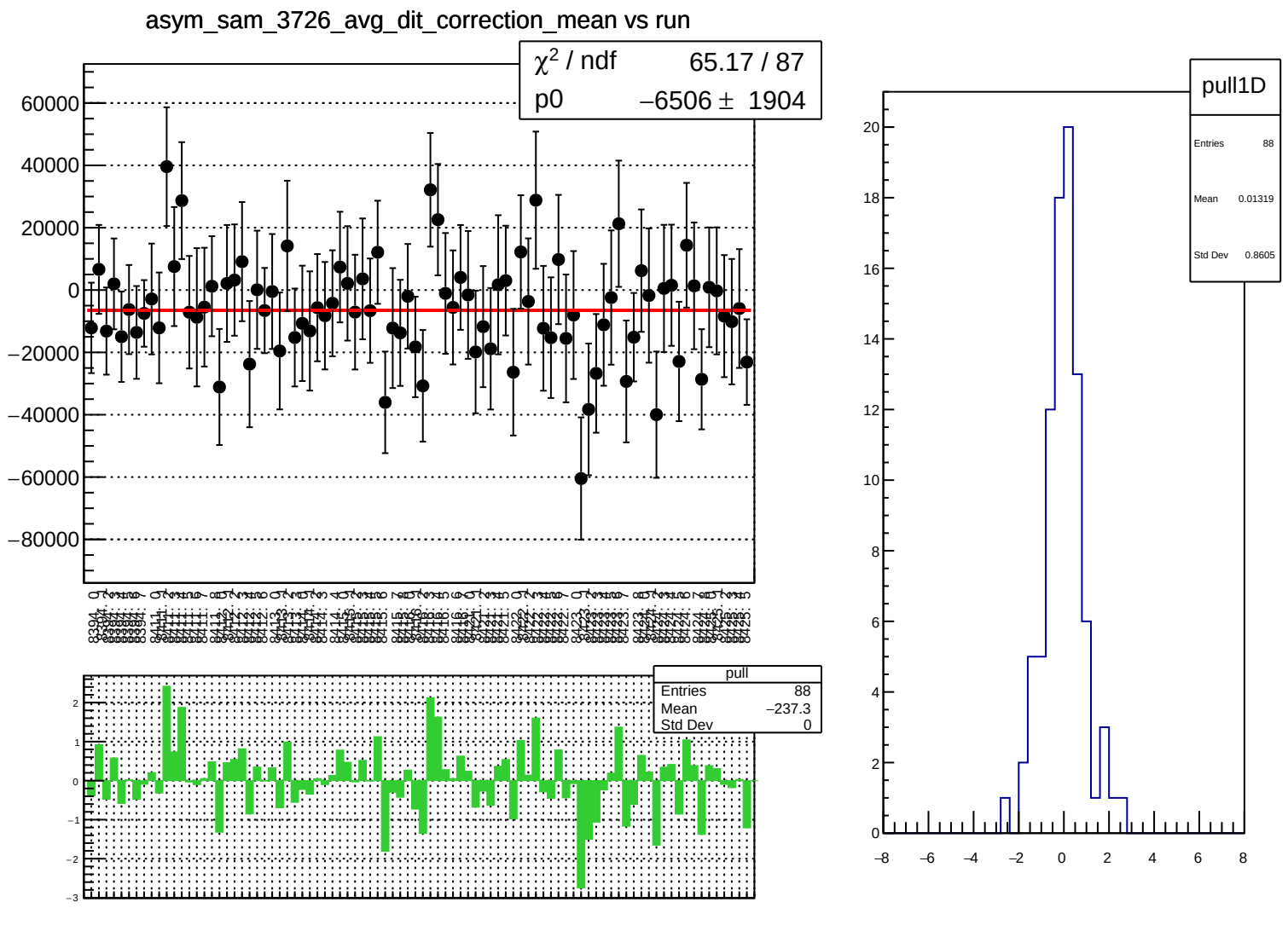

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 64.99 / 87
p0 −6522 ± 1920
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −214.4
Std Dev 0
2
1
0
−1
−2
−3

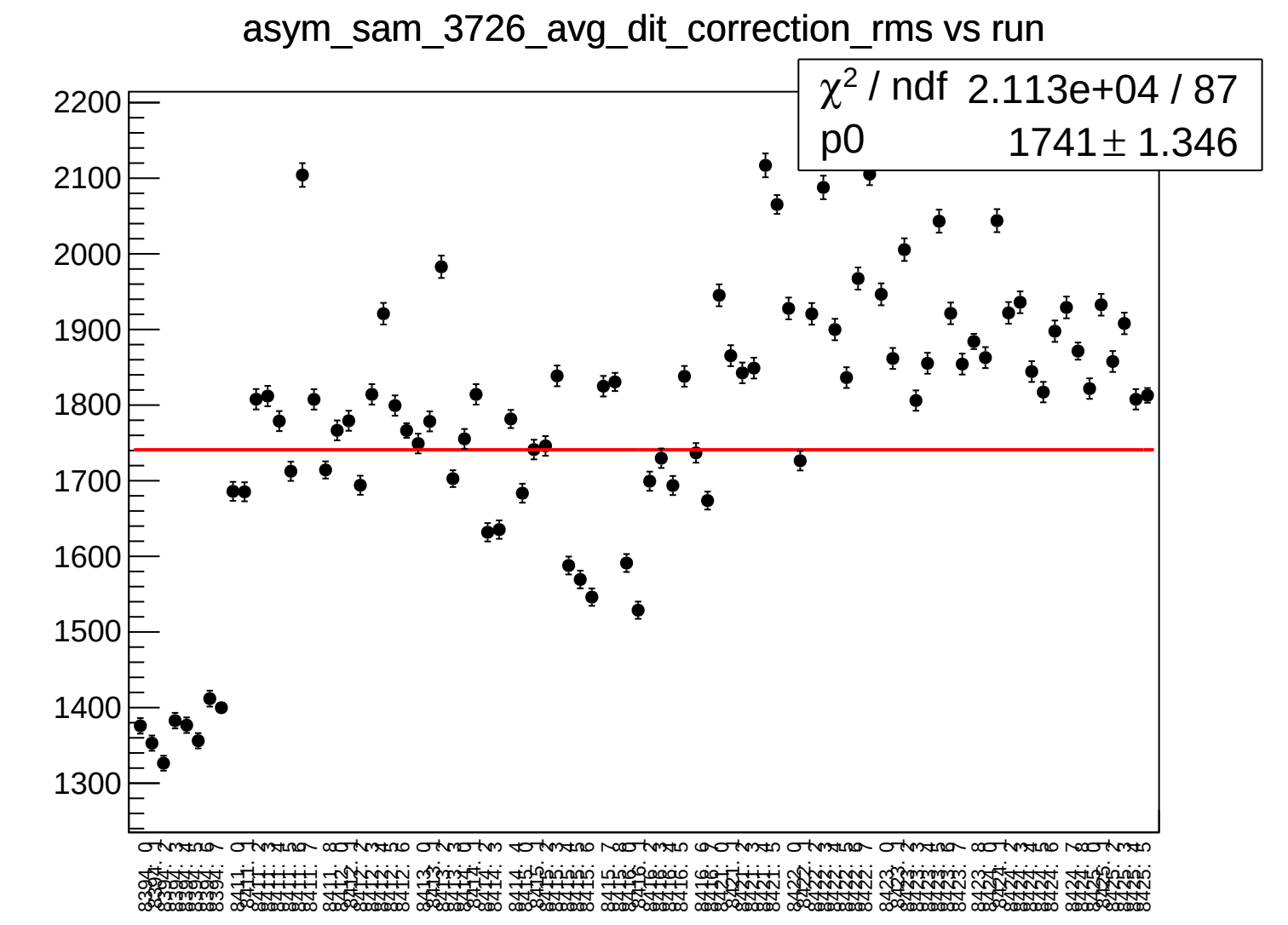

pull1D
Entries 88
Mean 0.01408
Std Dev 0.8593
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

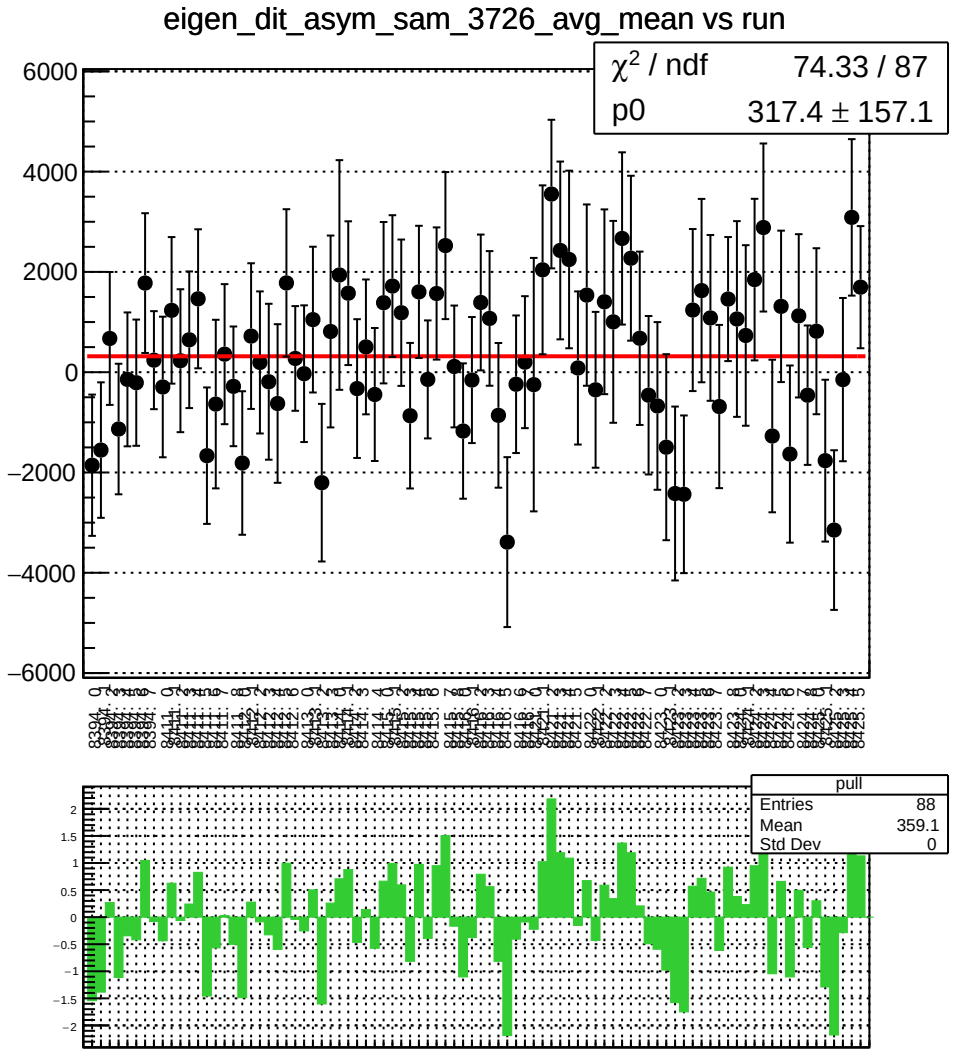

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.977e+04 / 87
p0 1756 ± 1.357
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300

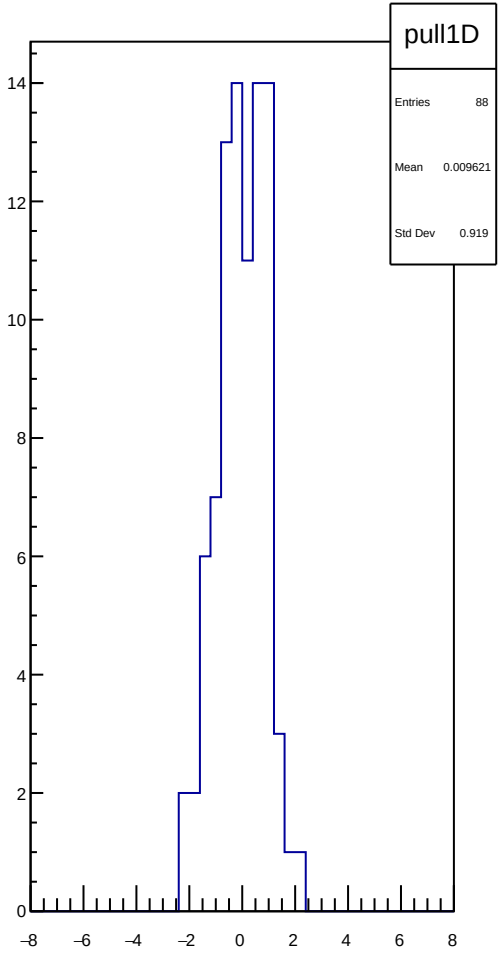

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 74.33 / 87
p0 317.4 ± 157.1
pull
Entries 88
Mean 359.1
Std Dev 0
pull1D
Entries 88
Mean 0.00962
Std Dev 0.919

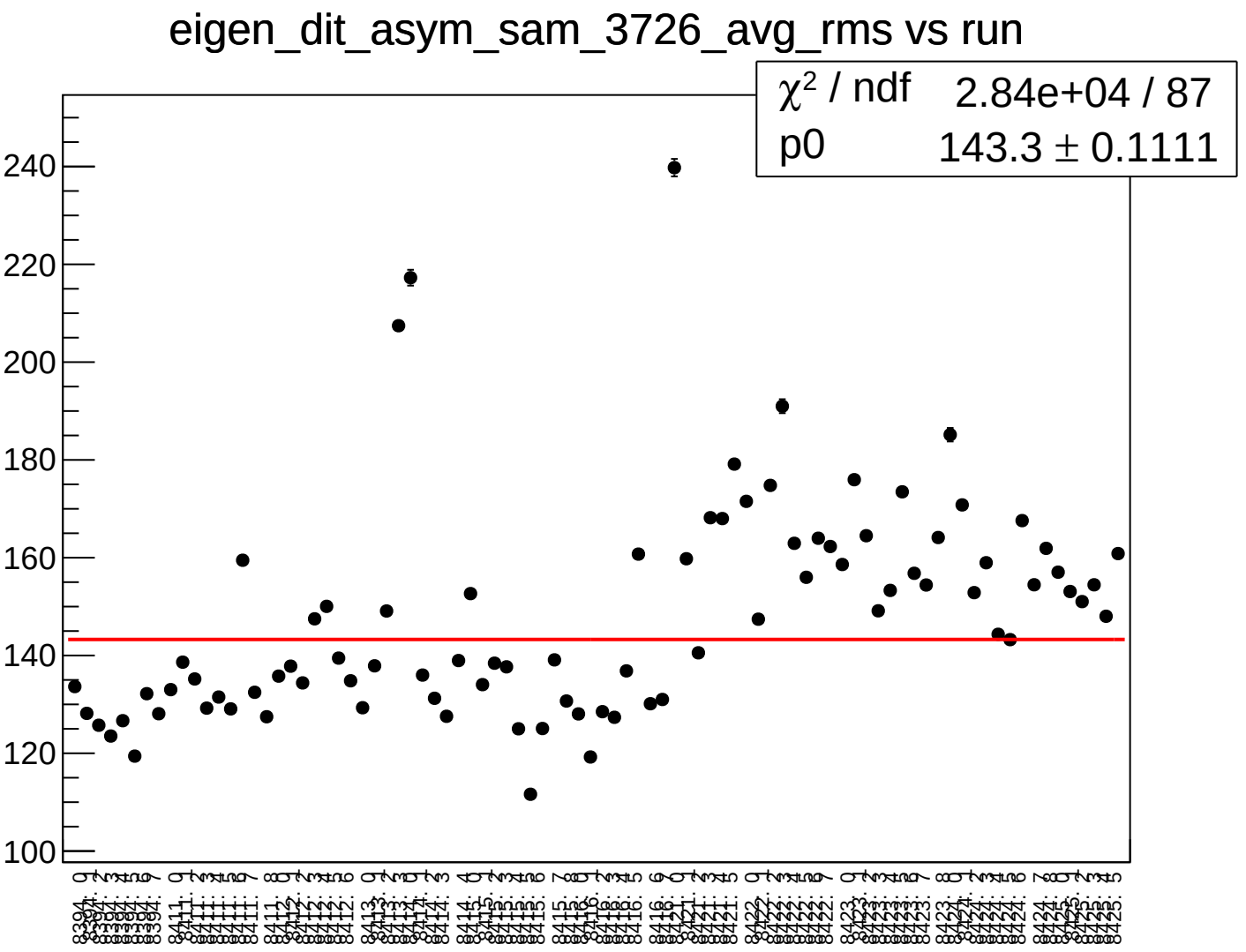

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 2.84e+04 / 87
p0 143.3 ± 0.1111
240
220
200
180
160
140
120
100

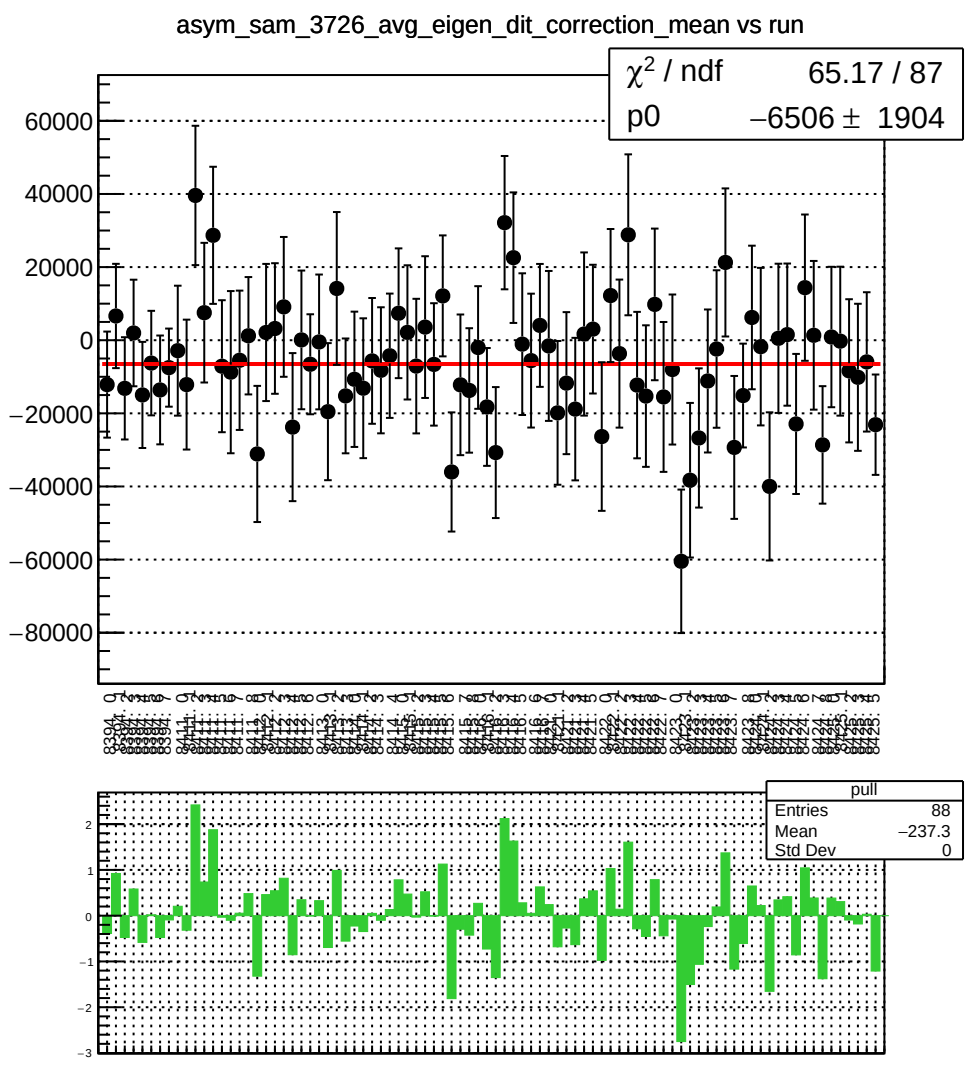

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 65.17 / 87
p0 −6506 ± 1904
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −237.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.01319
Std Dev 0.8605
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

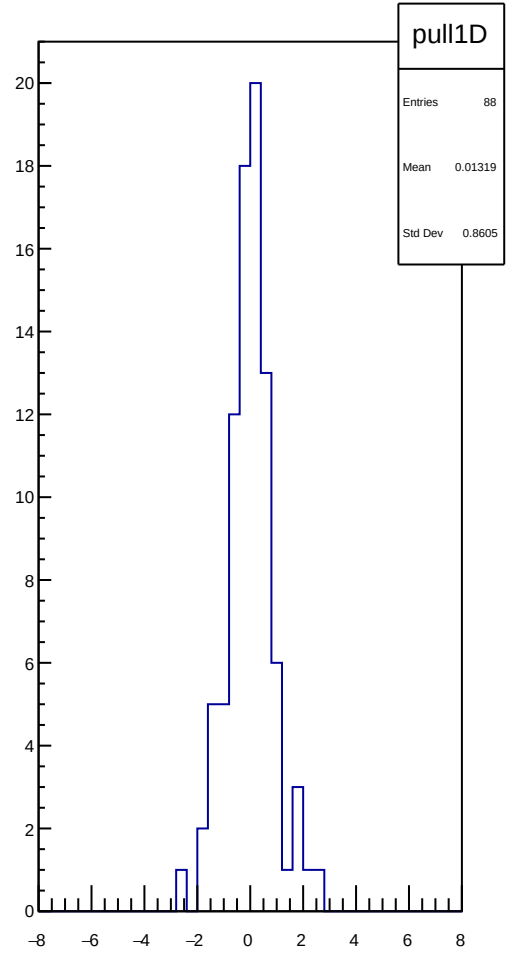

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 2.113e+04 / 87
p0 1741 ± 1.346
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300

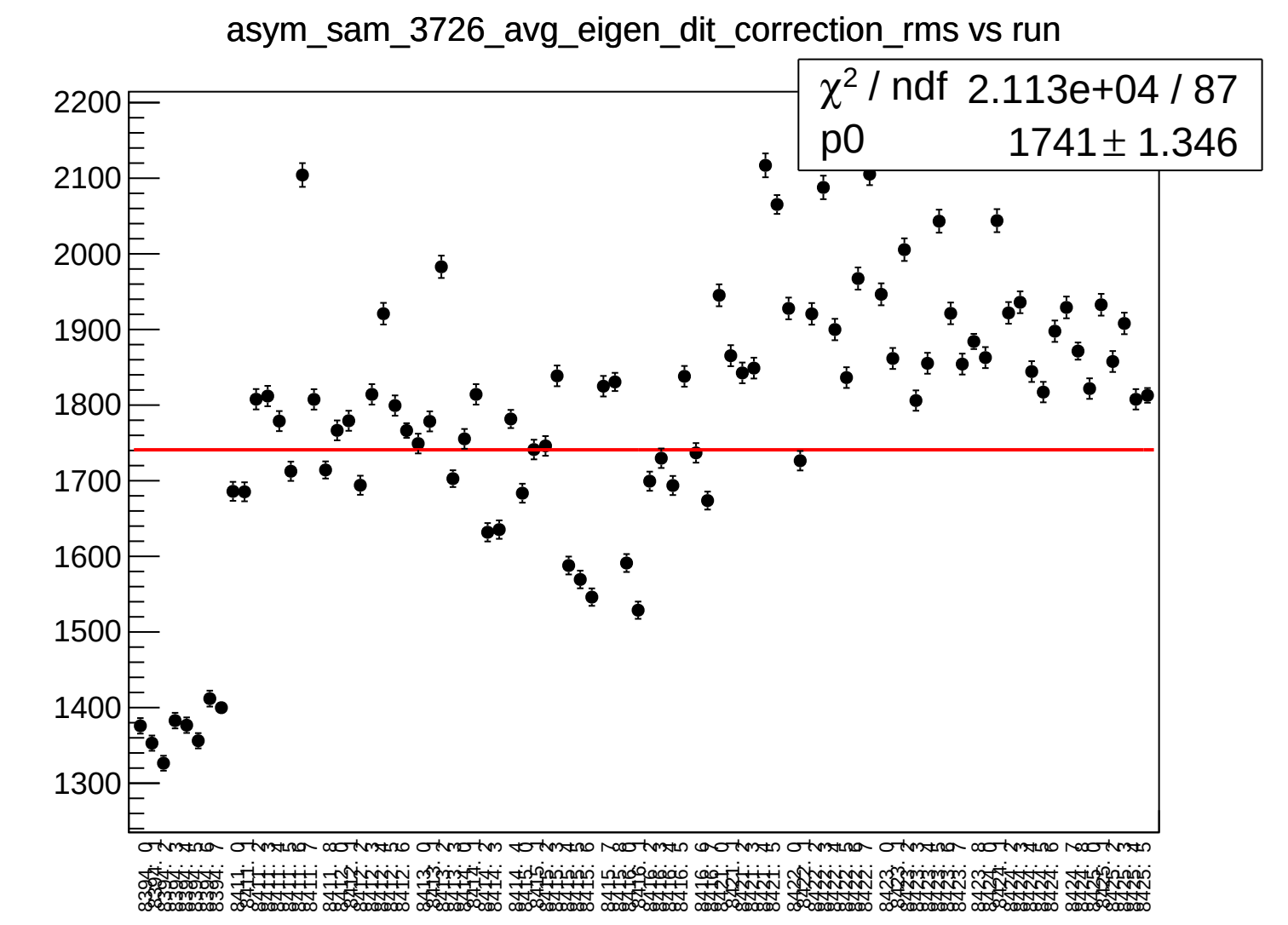

eigen_dit_asym_sam_3726_avg_mean vs run
χ^2 / ndf 74.33 / 87
p0 317.4 ± 157.1
pull
Entries 88
Mean 359.1
Std Dev 0

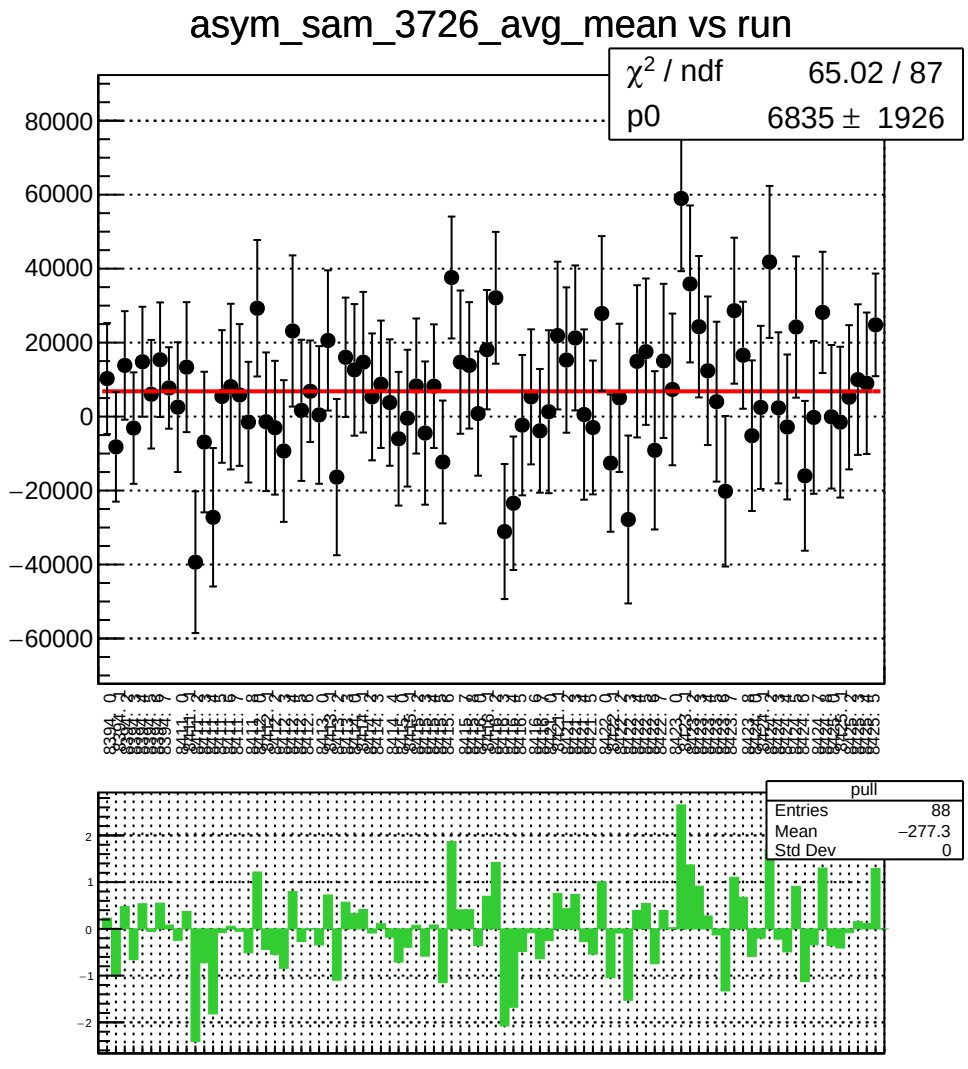

pull1D
Entries 88
Mean 0.009621
Std Dev 0.919

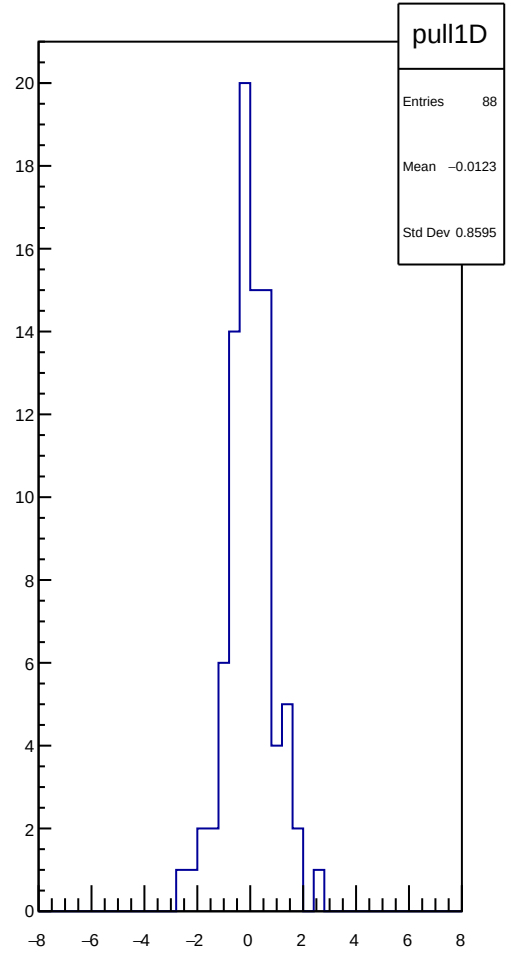

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 2.84e+04 / 87
p0 143.3 ± 0.1111
240
220
200
180
160
140
120
100

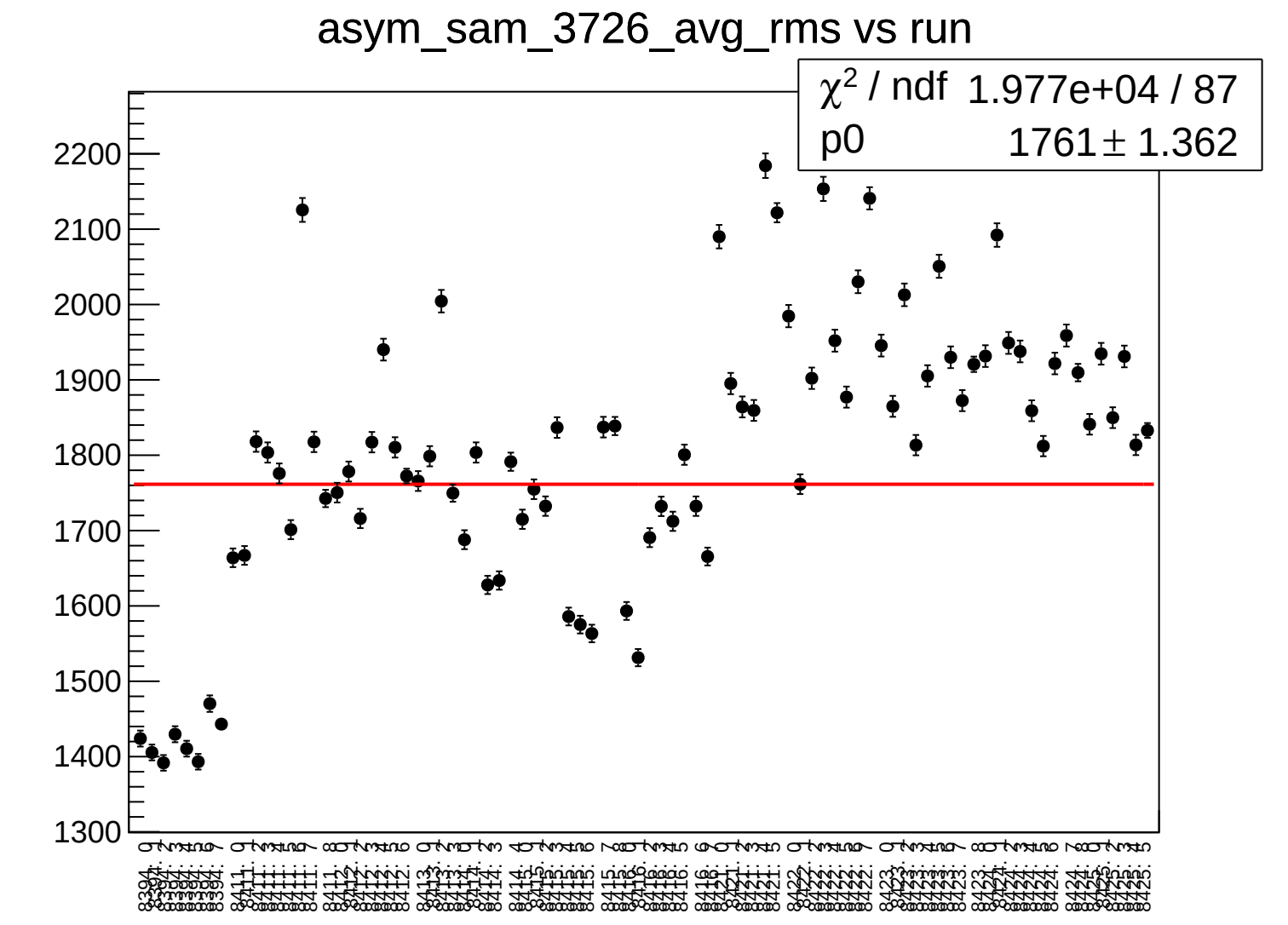

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 65.17 / 87
p0 −6506 ± 1904
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −237.3
Std Dev 0
2
1
0
−1
−2
−3

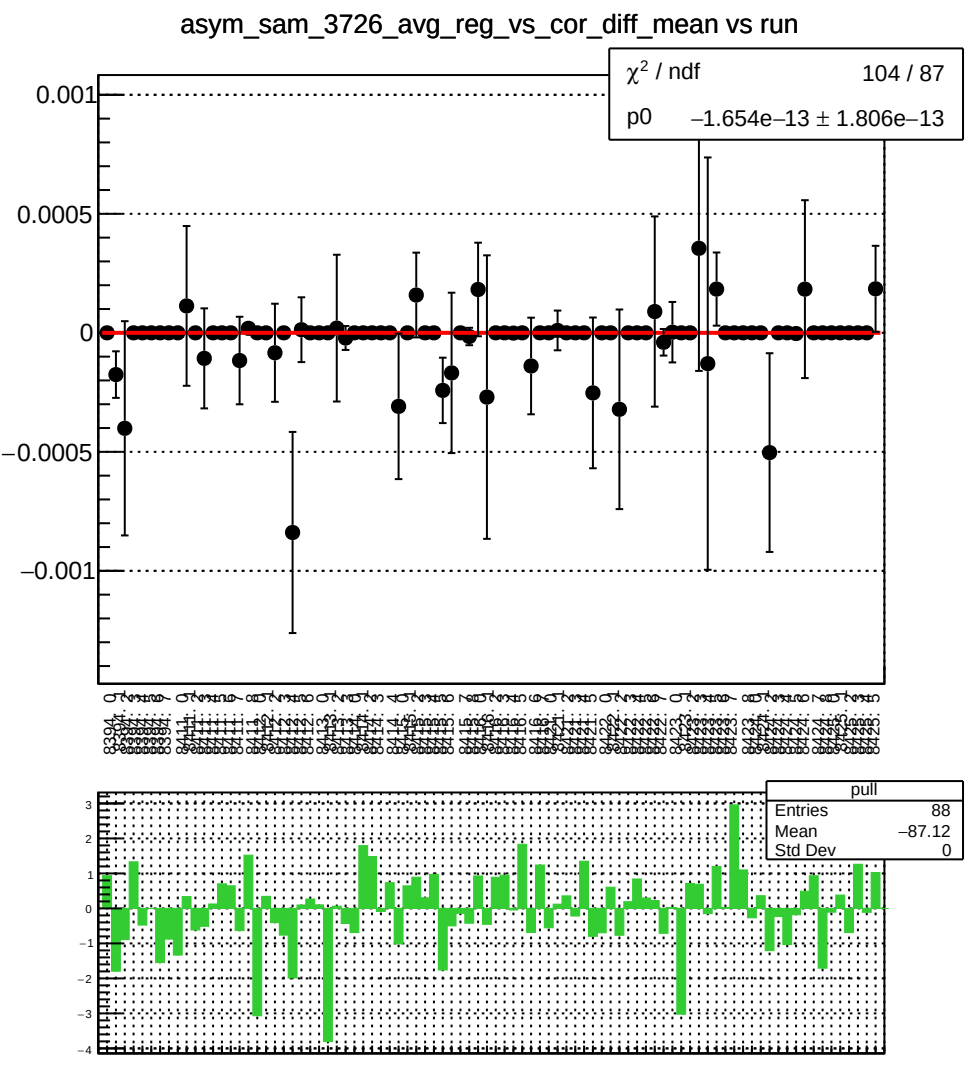

pull1D
Entries 88
Mean 0.01319
Std Dev 0.8605
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

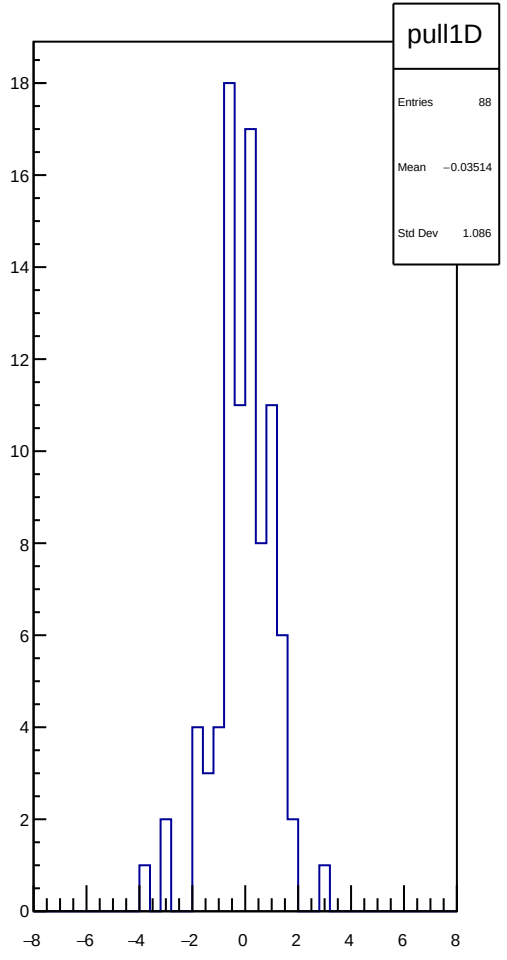

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.113e+04 / 87
p0 1741 ± 1.346
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300

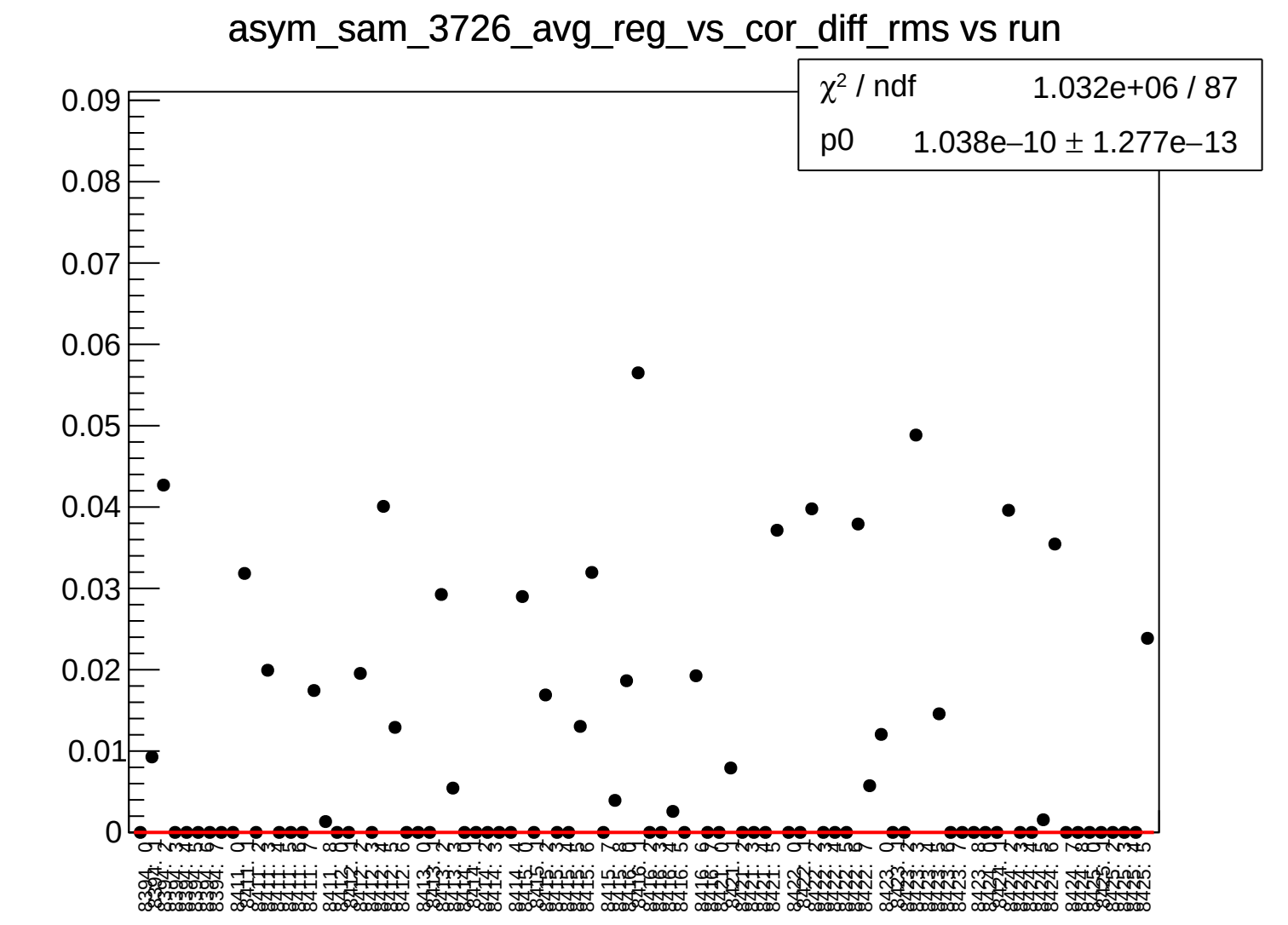

asym_sam_3726_avg_mean vs run
χ² / ndf 65.02 / 87
p0 6835 ± 1926
pull
Entries 88
Mean −277.3
Std Dev 0

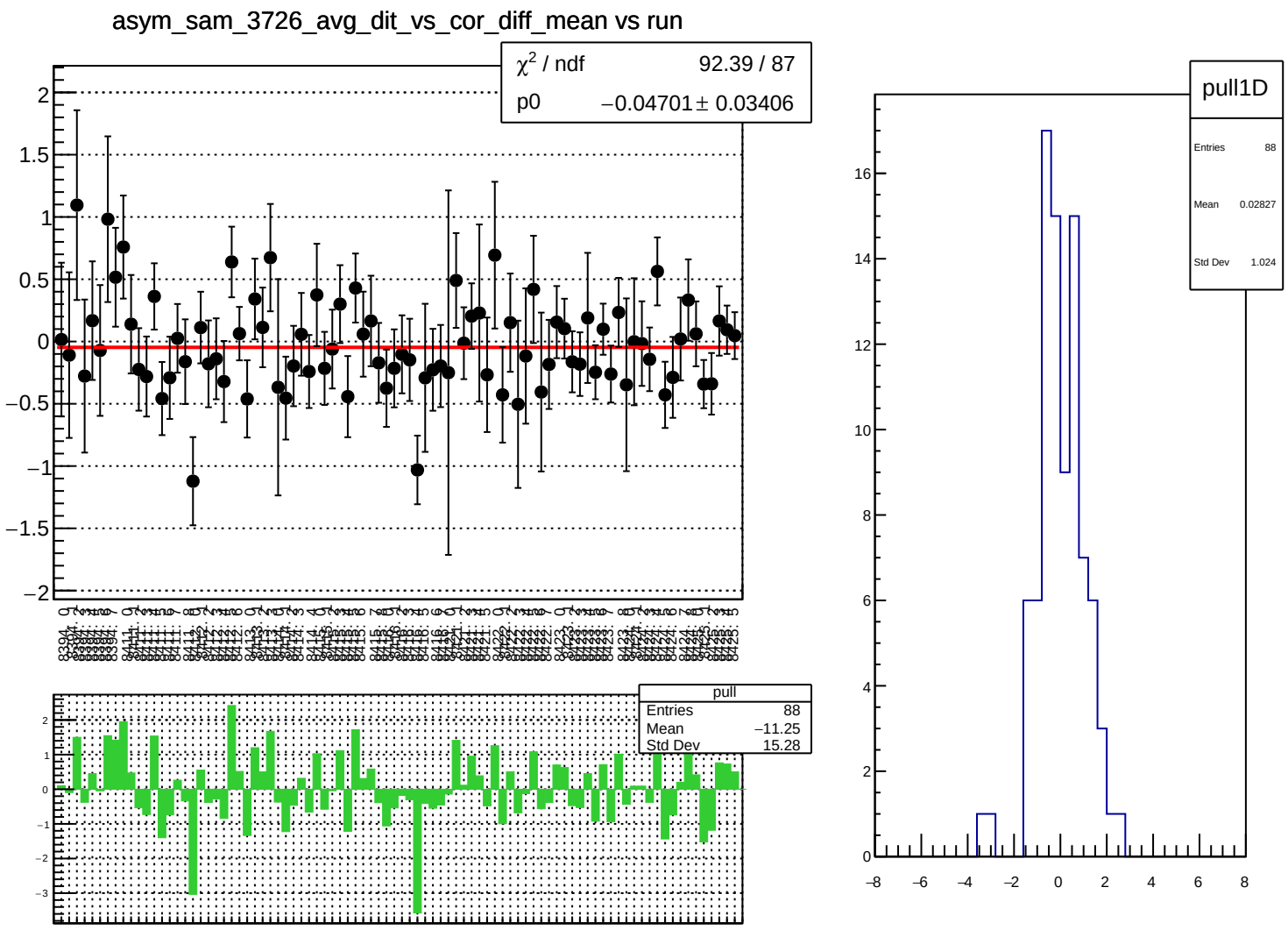

pull1D
Entries 88
Mean −0.0123
Std Dev 0.8595

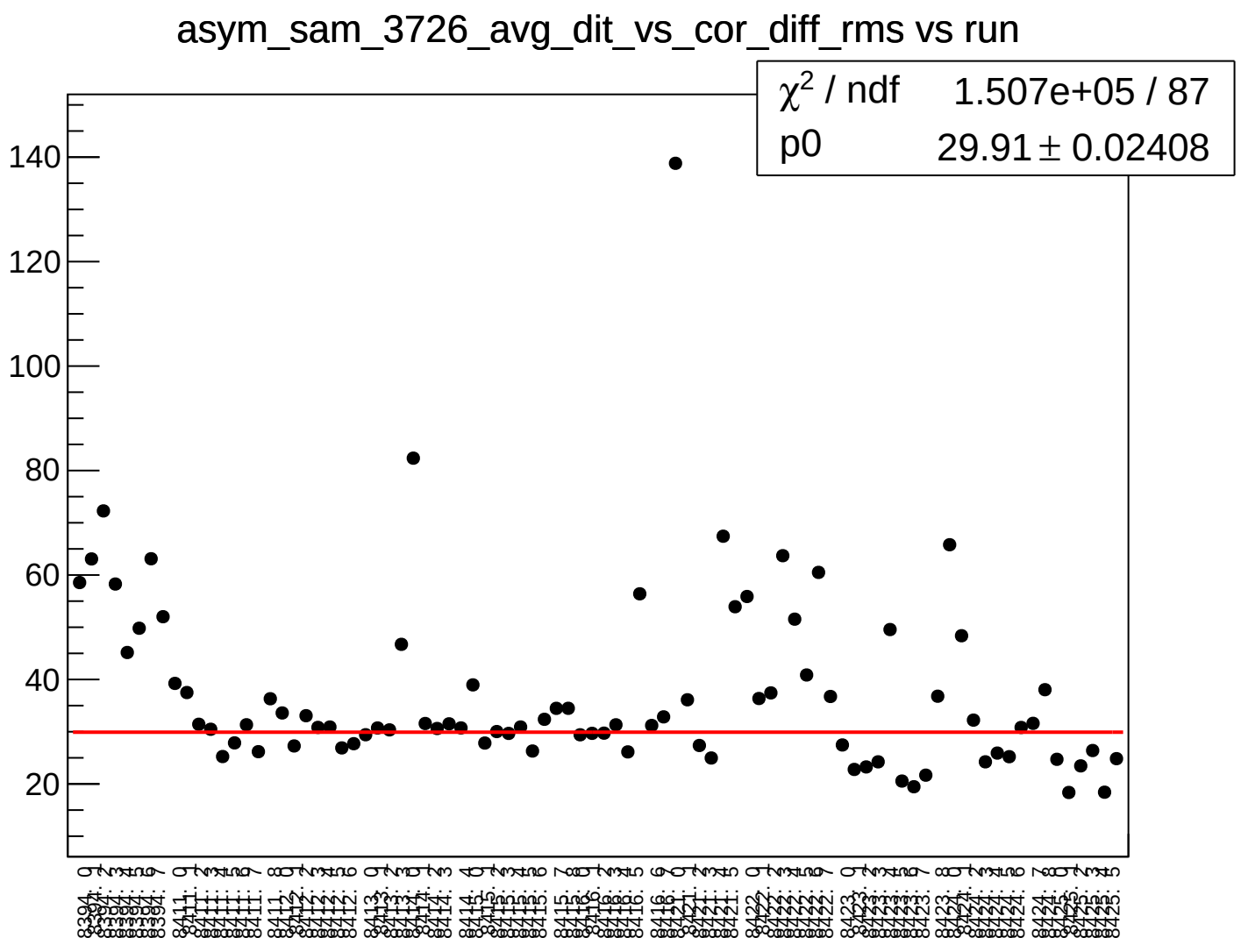

asym_sam_3726_avg_rms vs run
χ² / ndf 1.977e+04 / 87
p0 1761 ± 1.362
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300

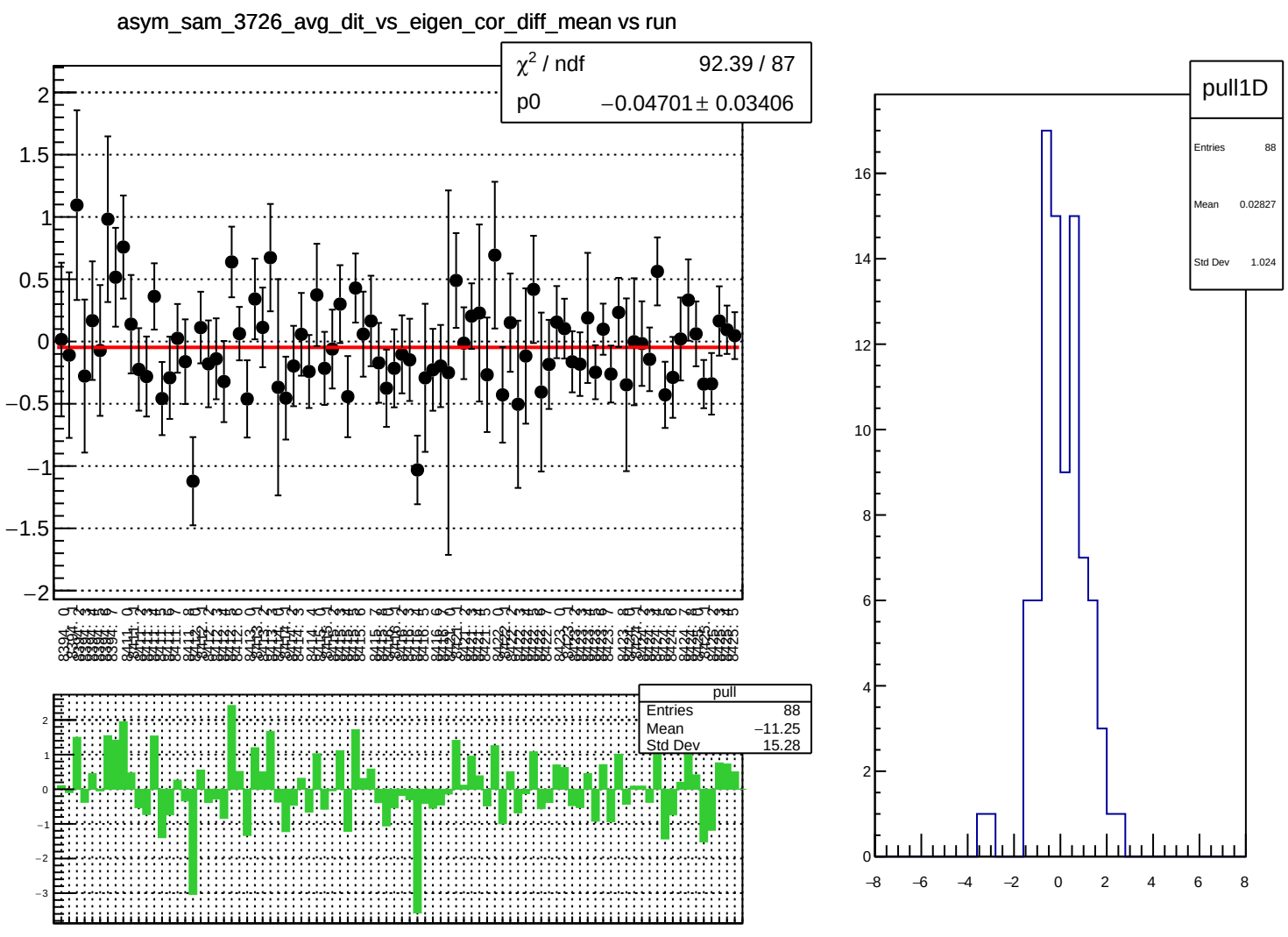

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 104 / 87
p0 −1.654e−13 ± 1.806e−13
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean −87.12
Std Dev 0
3
2
1
0
−1
−2
−3
−4

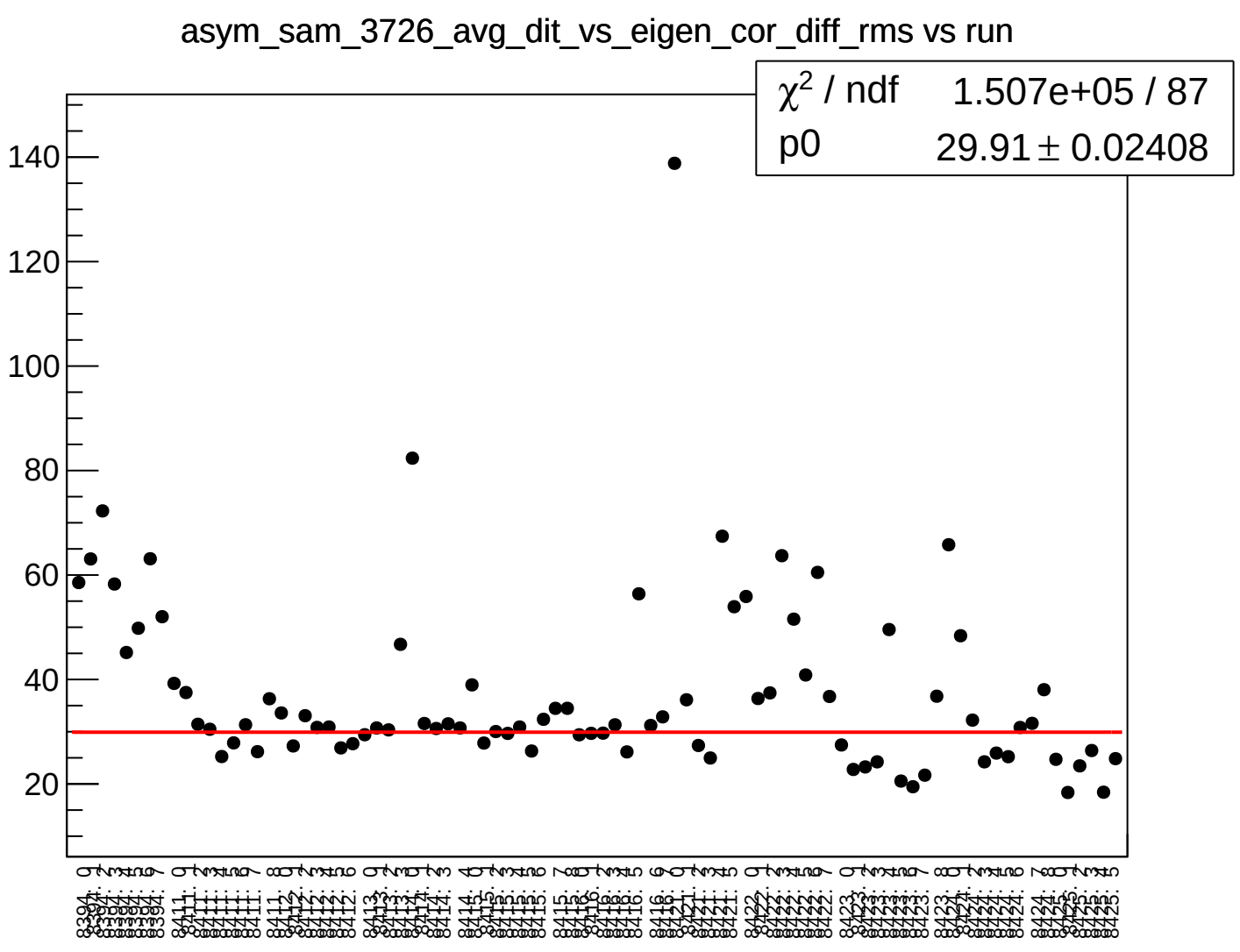

pull1D
Entries 88
Mean −0.03514
Std Dev 1.086
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

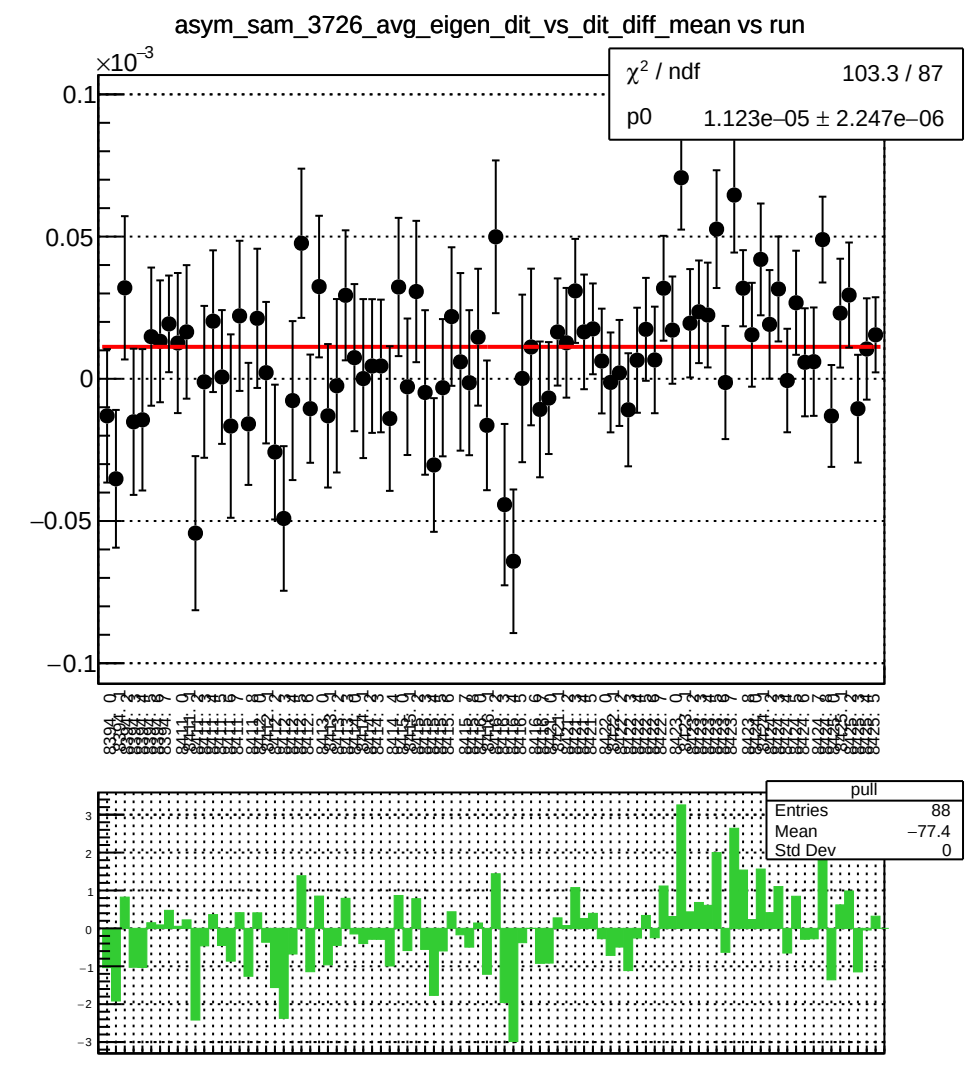

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.032e+06 / 87
p0 1.038e−10 ± 1.277e−13
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

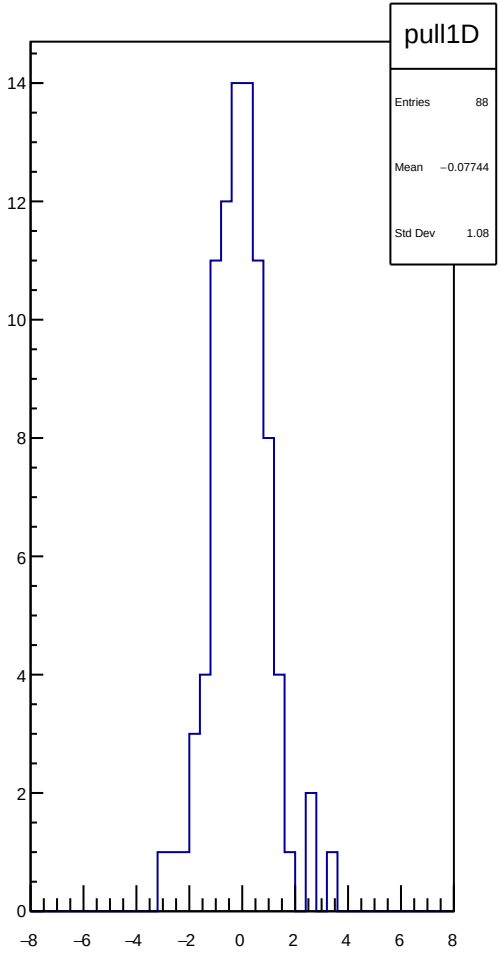

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.39 / 87
p0 −0.04701 ± 0.03406
pull
Entries 88
Mean −11.25
Std Dev 15.28
pull1D
Entries 88
Mean 0.02827
Std Dev 1.024

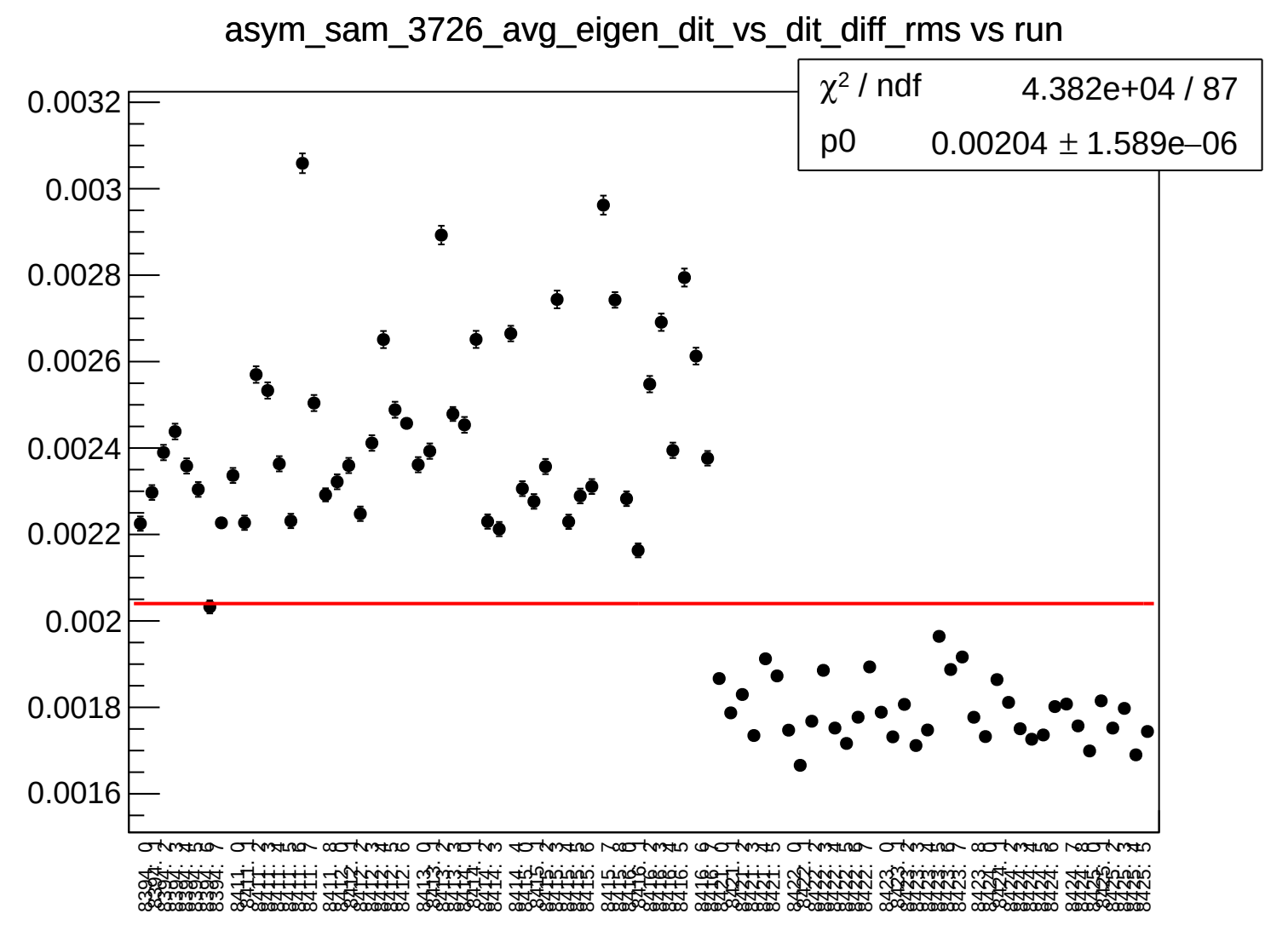

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.507e+05 / 87
p0 29.91 ± 0.02408
140
120
100
80
60
40
20

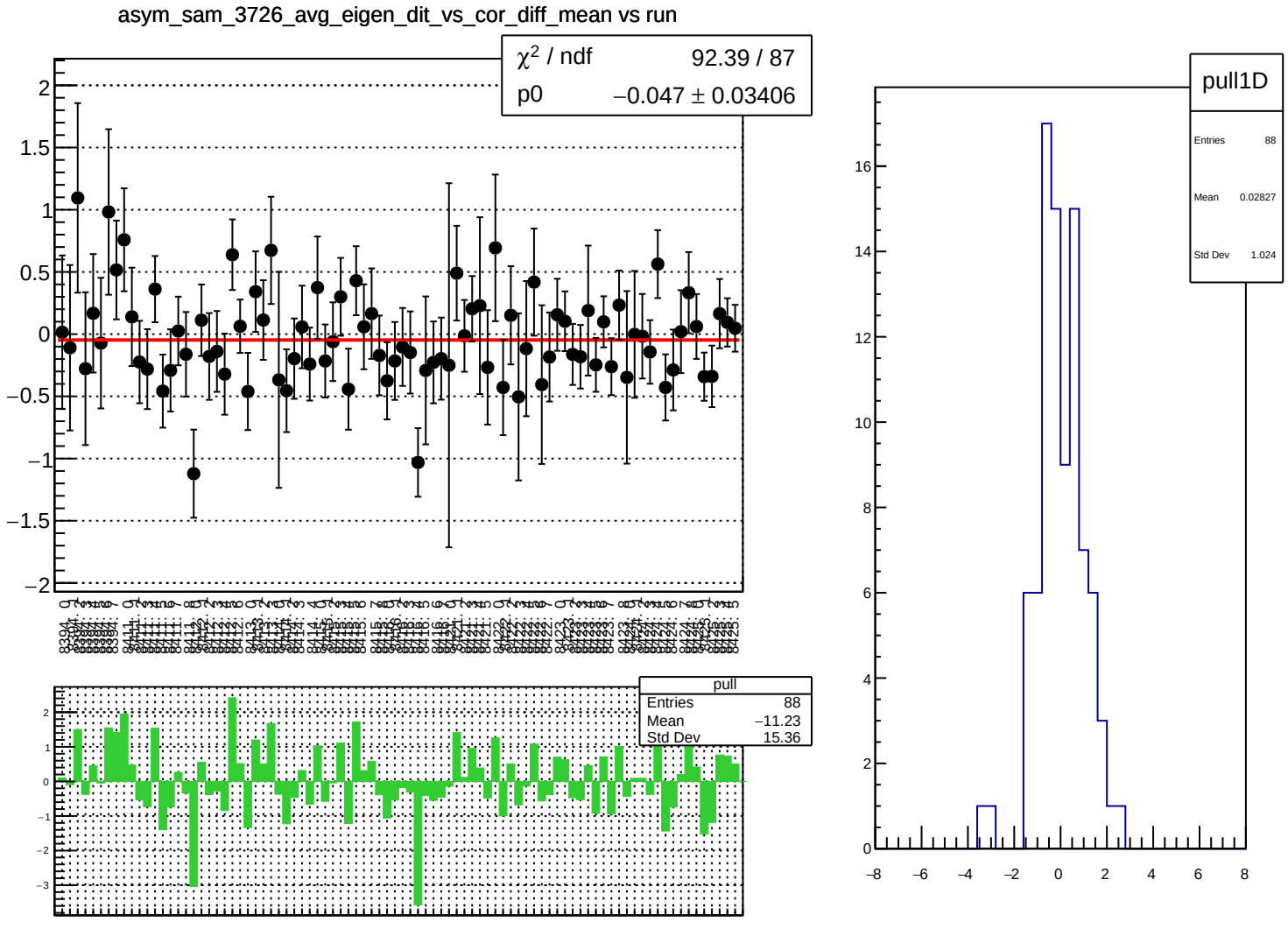

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.39 / 87
p0 −0.04701 ± 0.03406
pull
Entries 88
Mean −11.25
Std Dev 15.28
pull1D
Entries 88
Mean 0.02827
Std Dev 1.024

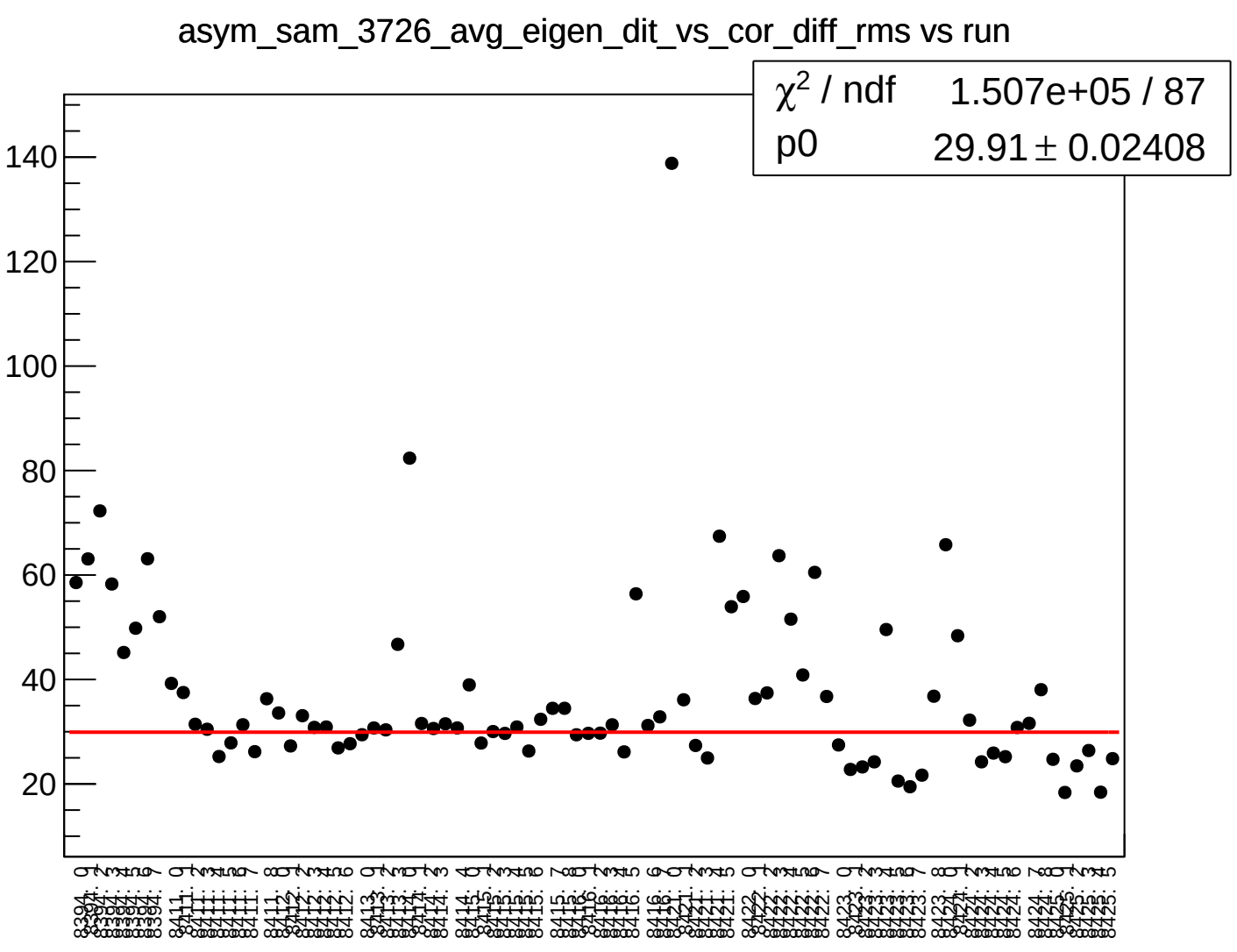

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.507e+05 / 87
p0 29.91 ± 0.02408
140
120
100
80
60
40
20

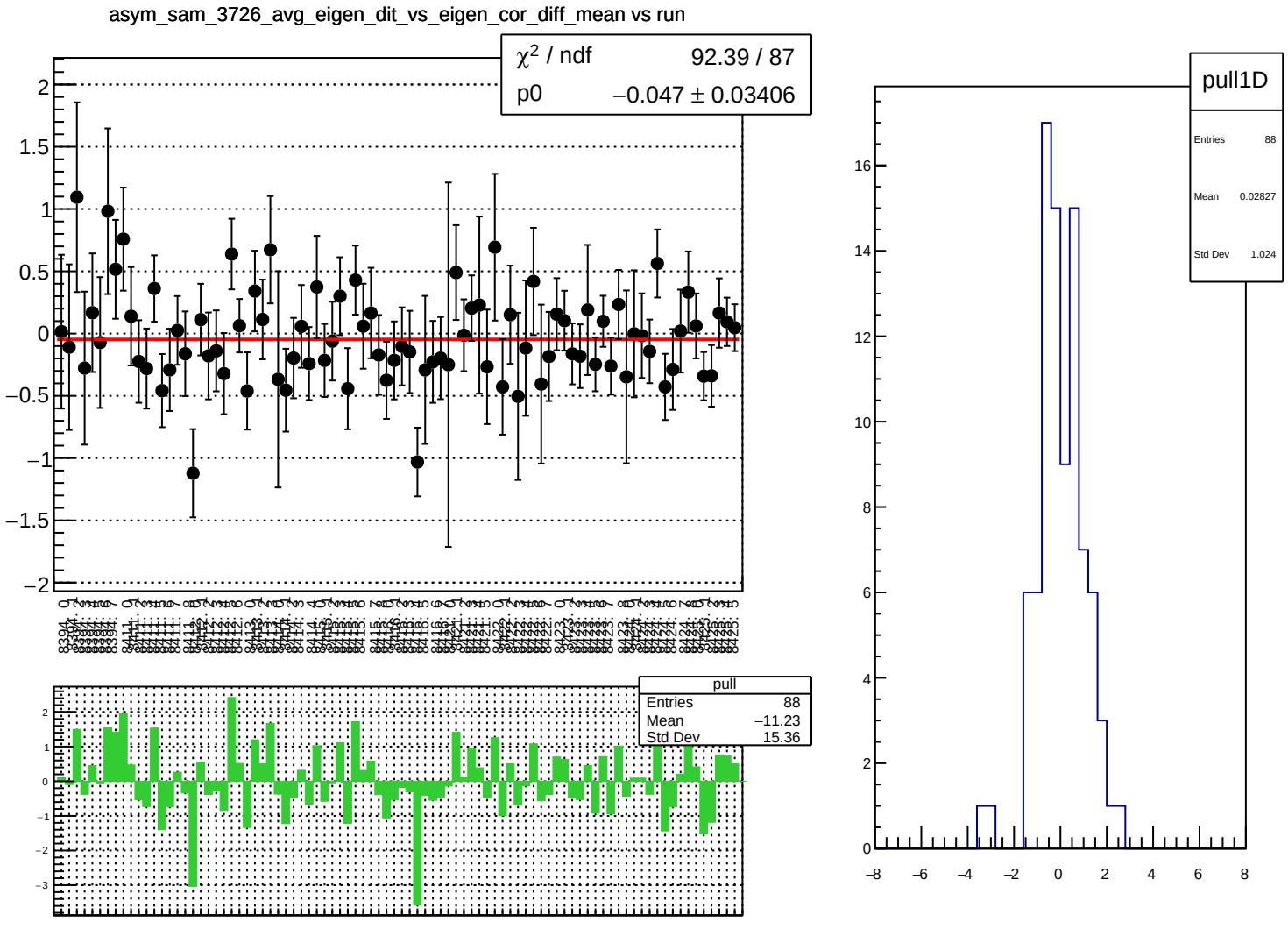

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.3 / 87
p0 1.123e−05 ± 2.247e−06
pull
Entries 88
Mean −77.4
Std Dev 0

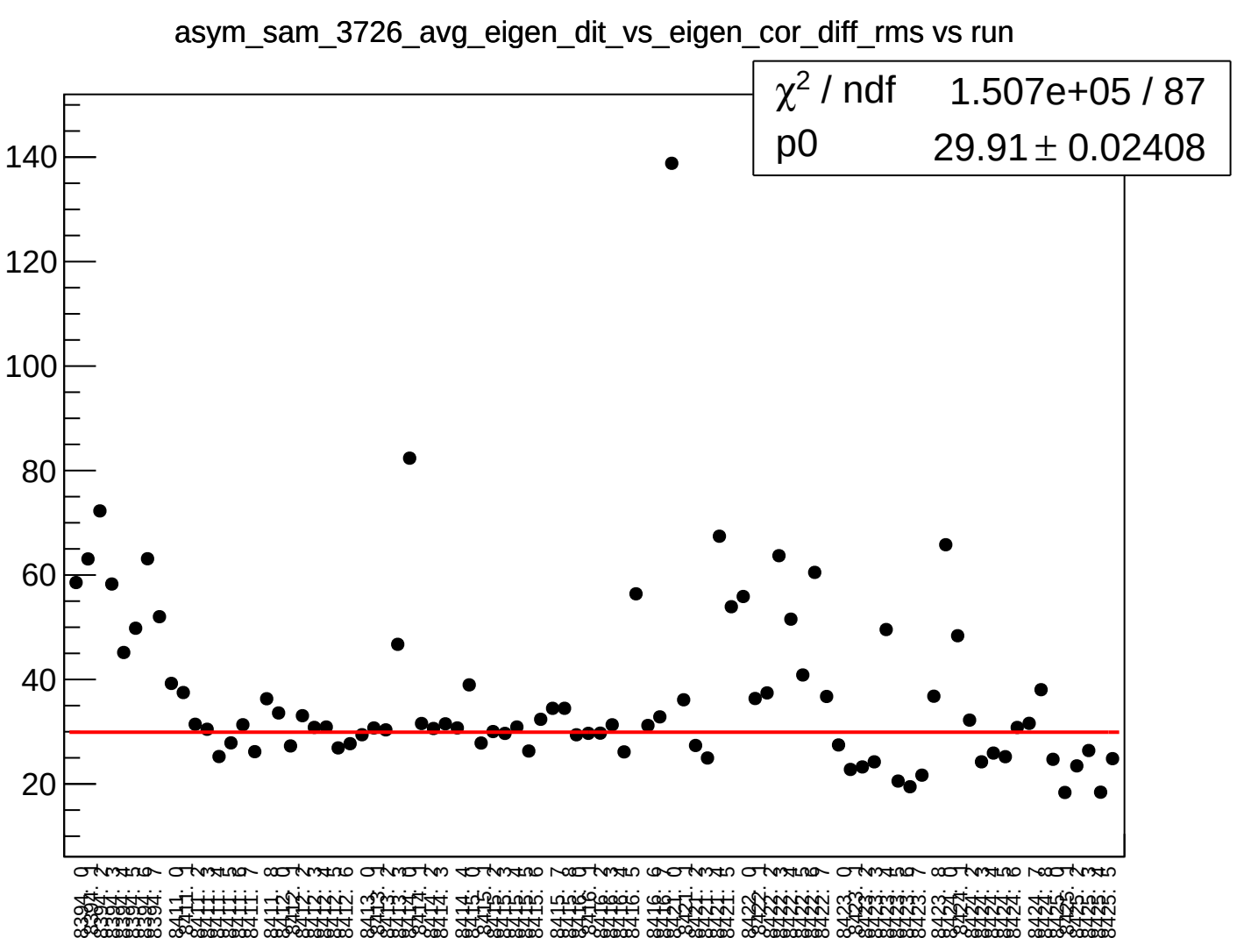

pull1D
Entries 88
Mean −0.07744
Std Dev 1.08

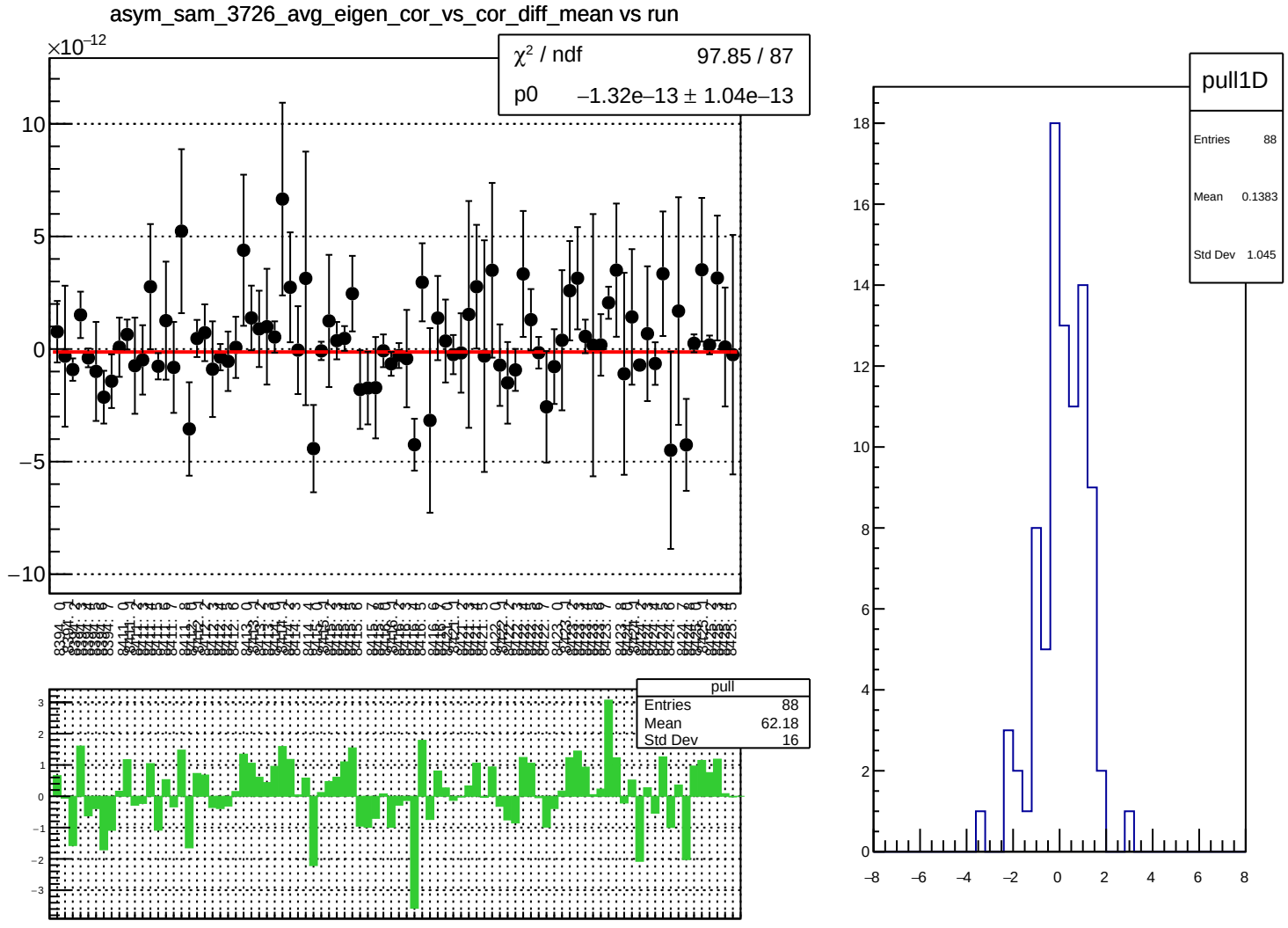

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.382e+04 / 87
p0 0.00204 ± 1.589e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016

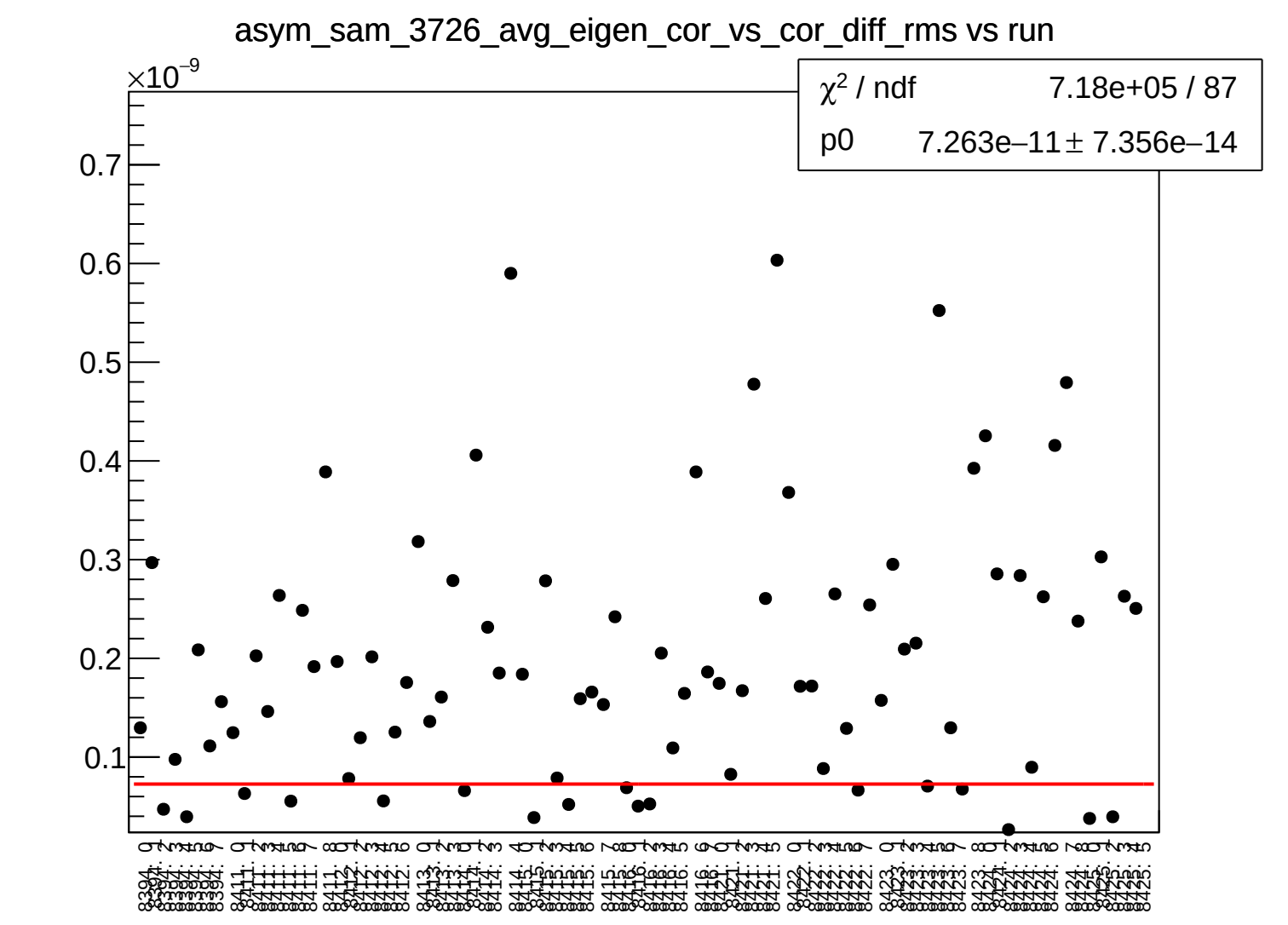

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.39 / 87
p0 −0.047 ± 0.03406
pull
Entries 88
Mean −11.23
Std Dev 15.36
pull1D
Entries 88
Mean 0.02827
Std Dev 1.024

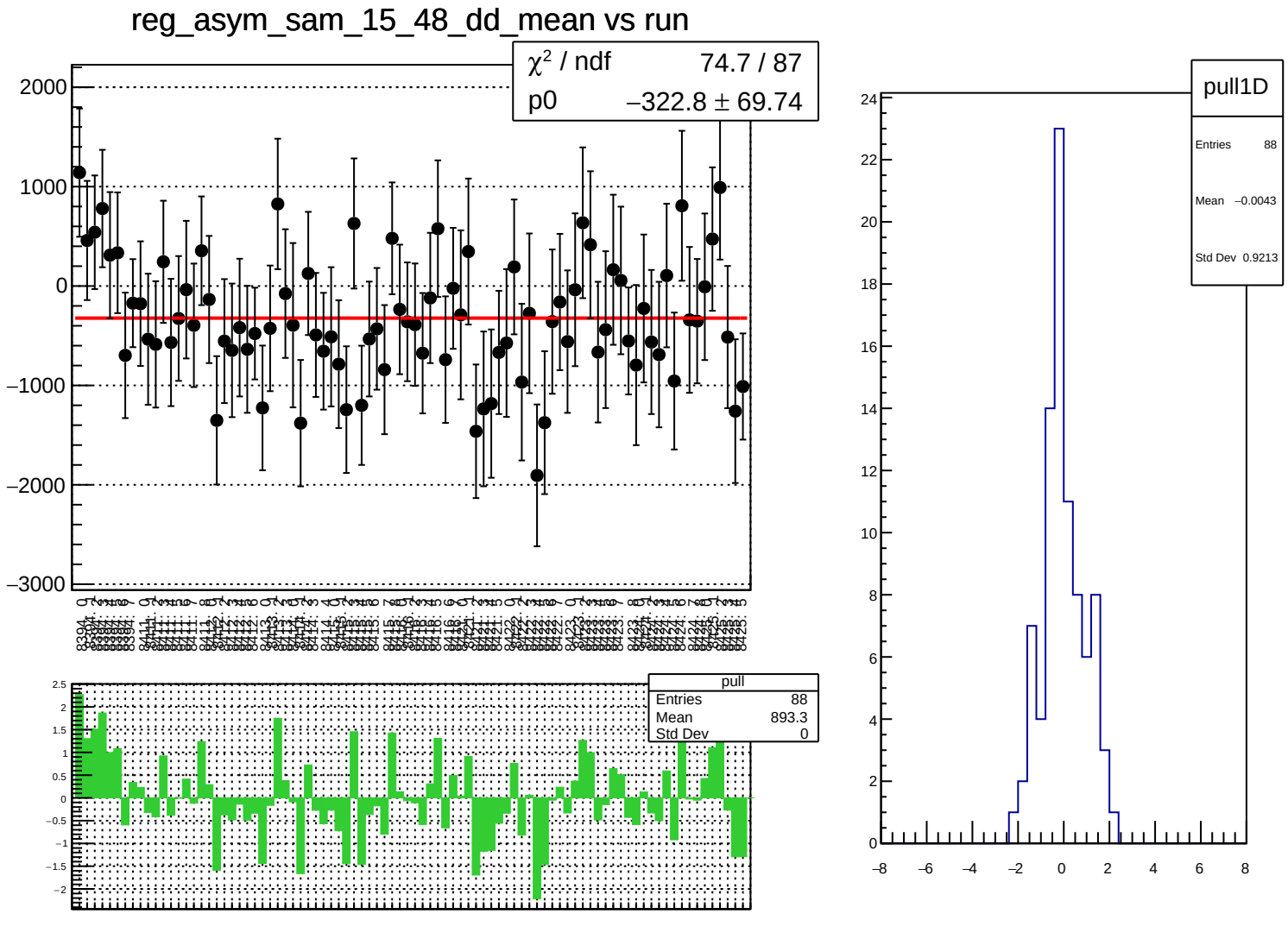

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.507e+05 / 87
p0 29.91 ± 0.02408
140
120
100
80
60
40
20

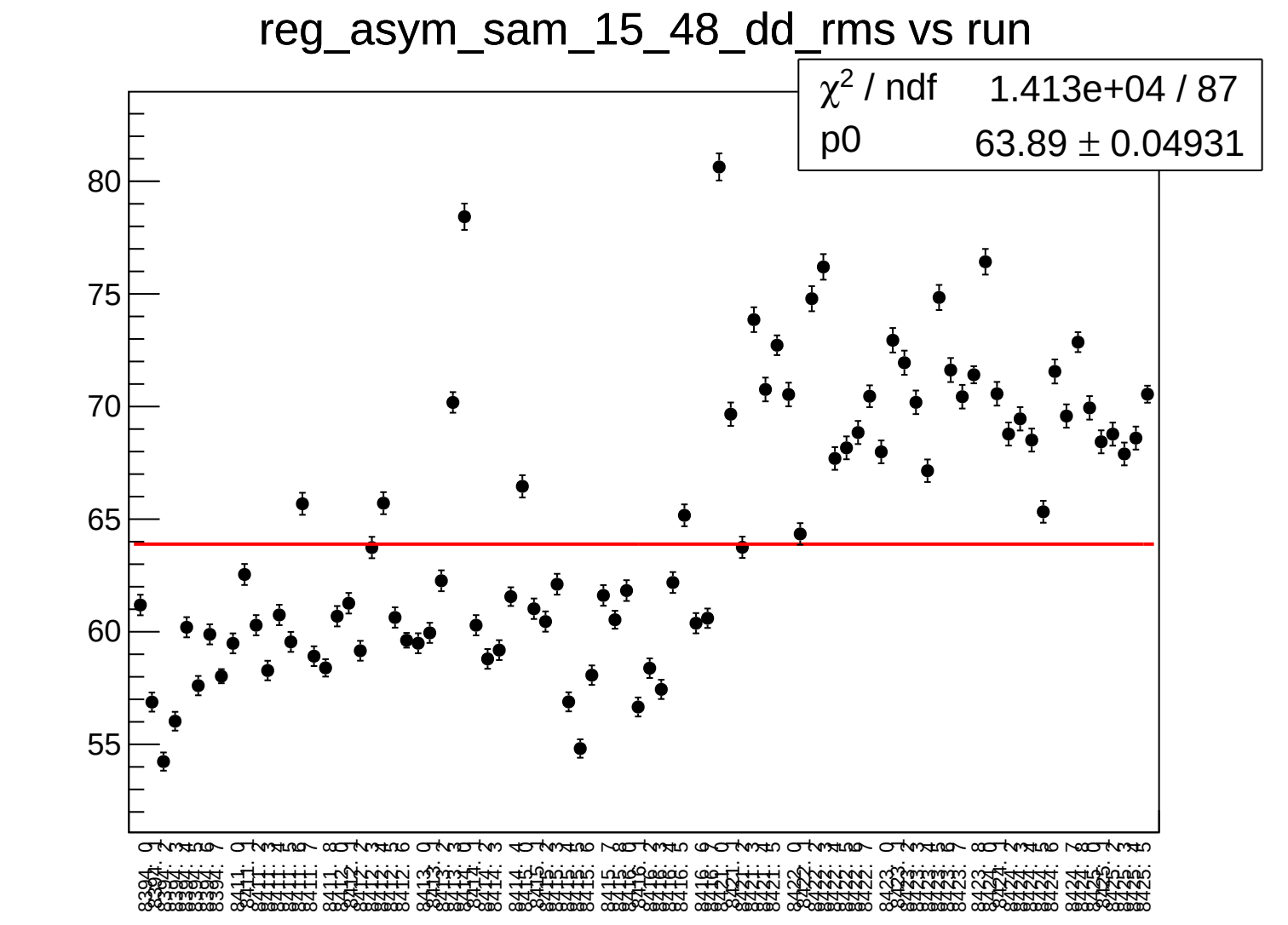

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.39 / 87
p0 −0.047 ± 0.03406
pull
Entries 88
Mean −11.23
Std Dev 15.36
pull1D
Entries 88
Mean 0.02827
Std Dev 1.024

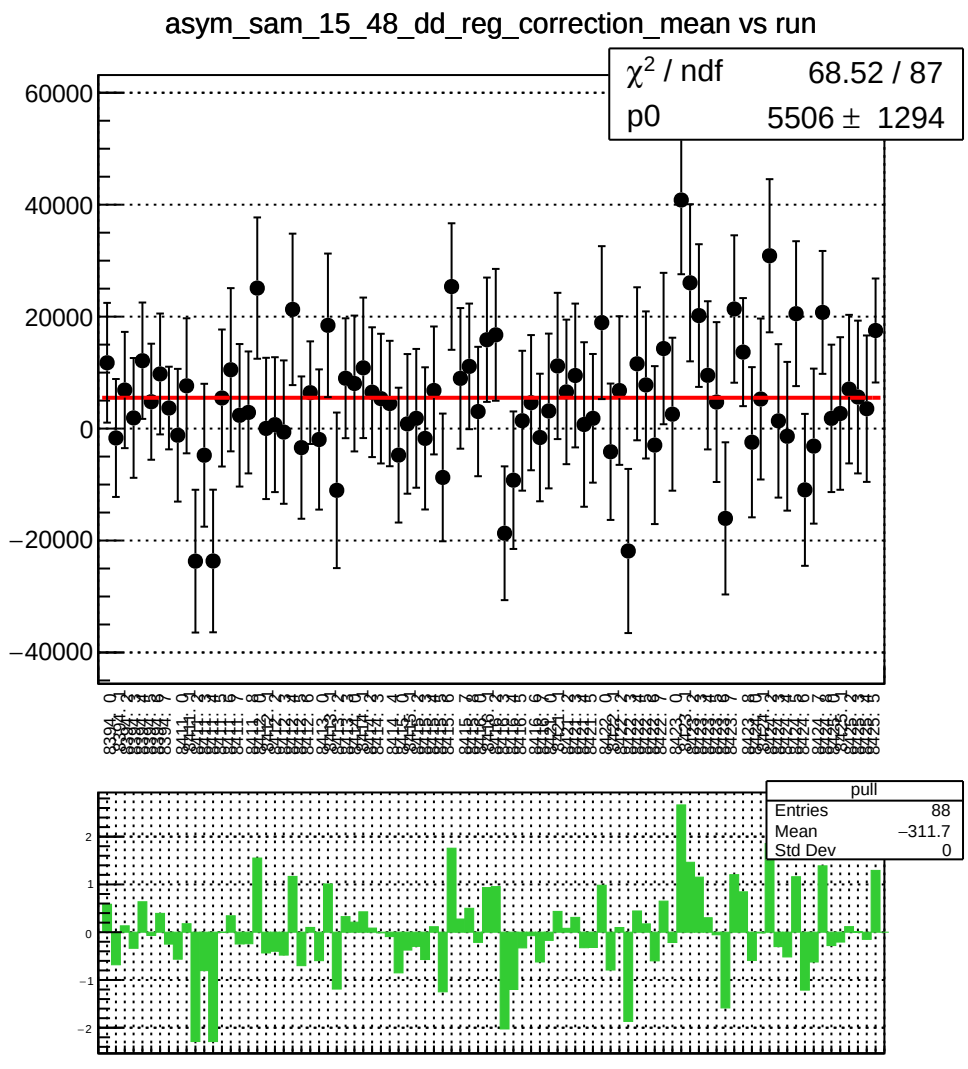

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.507e+05 / 87
p0 29.91 ± 0.02408
140
120
100
80
60
40
20

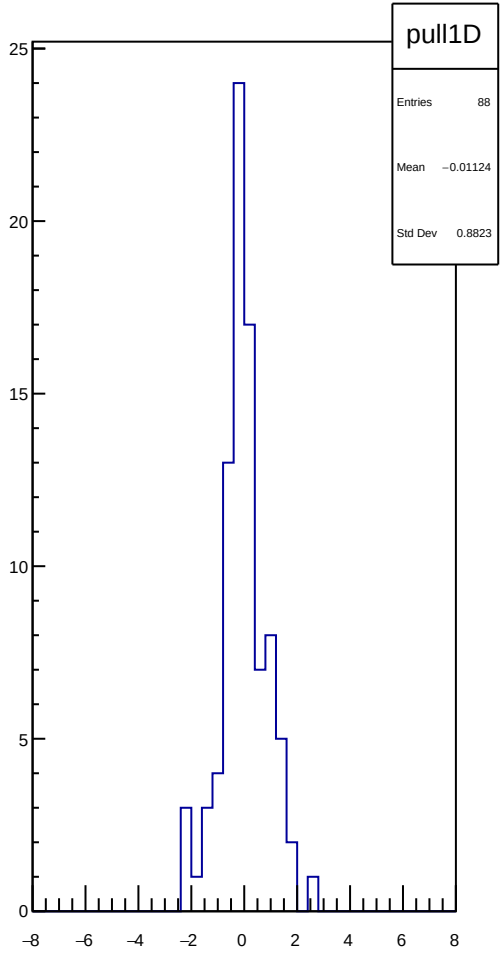

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.85 / 87
p0 −1.32e−13 ± 1.04e−13
10
5
0
−5
−10
pull
Entries 88
Mean 62.18
Std Dev 16
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.1383
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

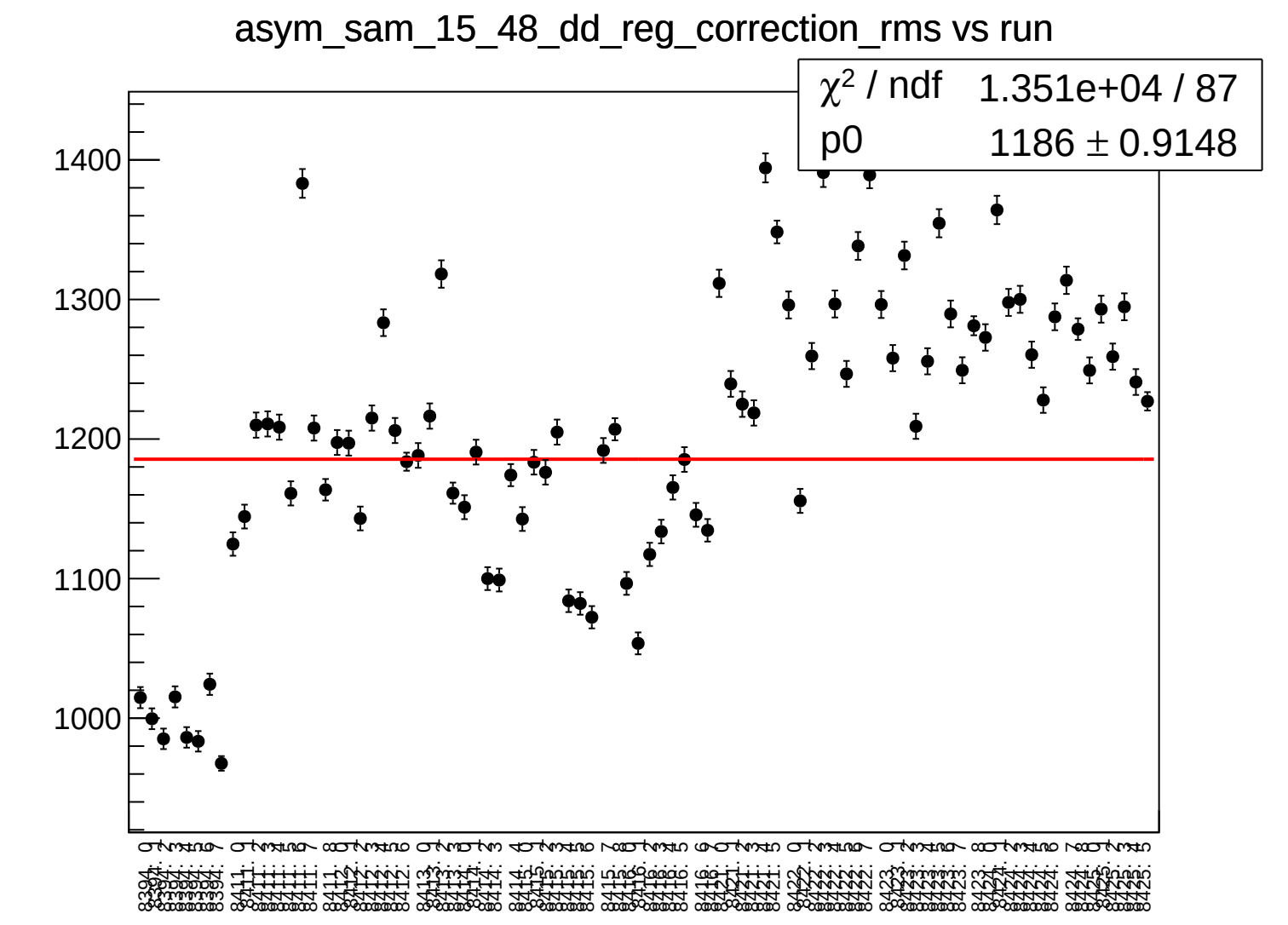

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.18e+05 / 87
p0 7.263e−11 ± 7.356e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

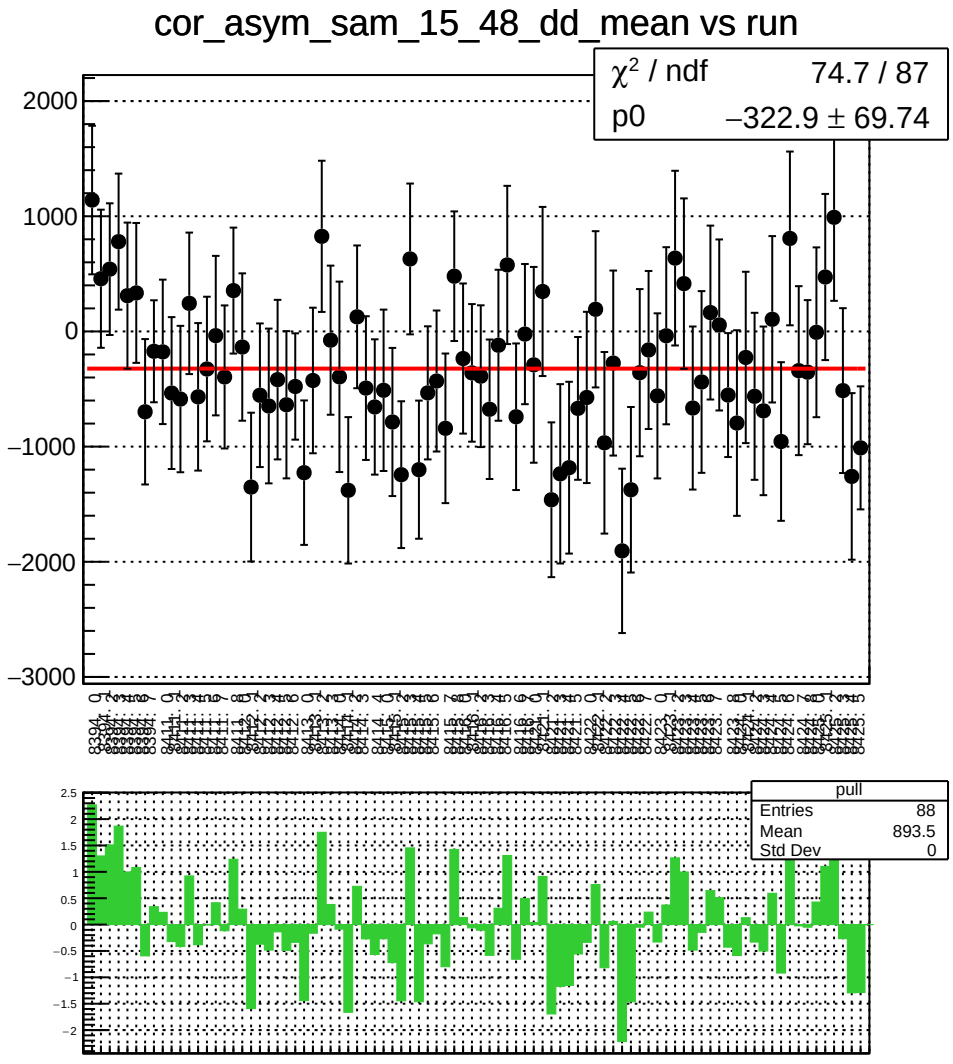

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 74.7 / 87
p0 −322.8 ± 69.74
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 893.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.0043
Std Dev 0.9213
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

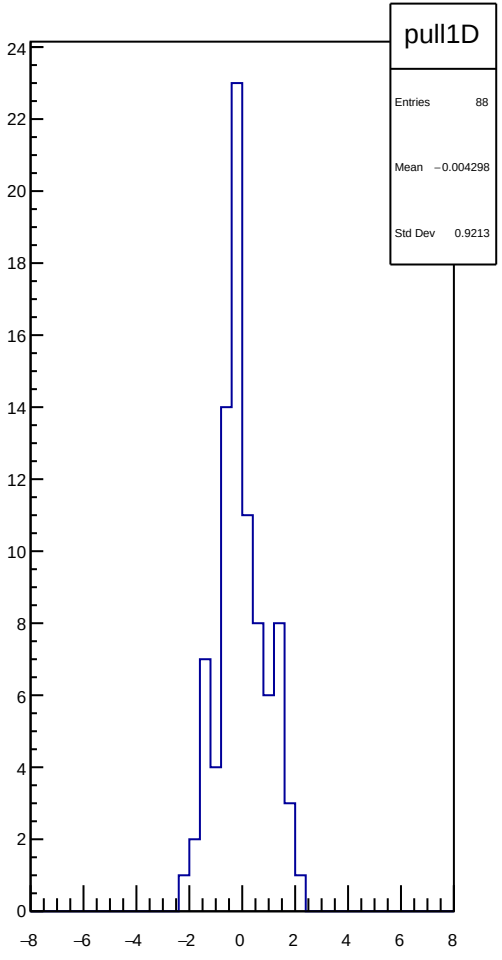

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.413e+04 / 87
p0 63.89 ± 0.04931
80
75
70
65
60
55

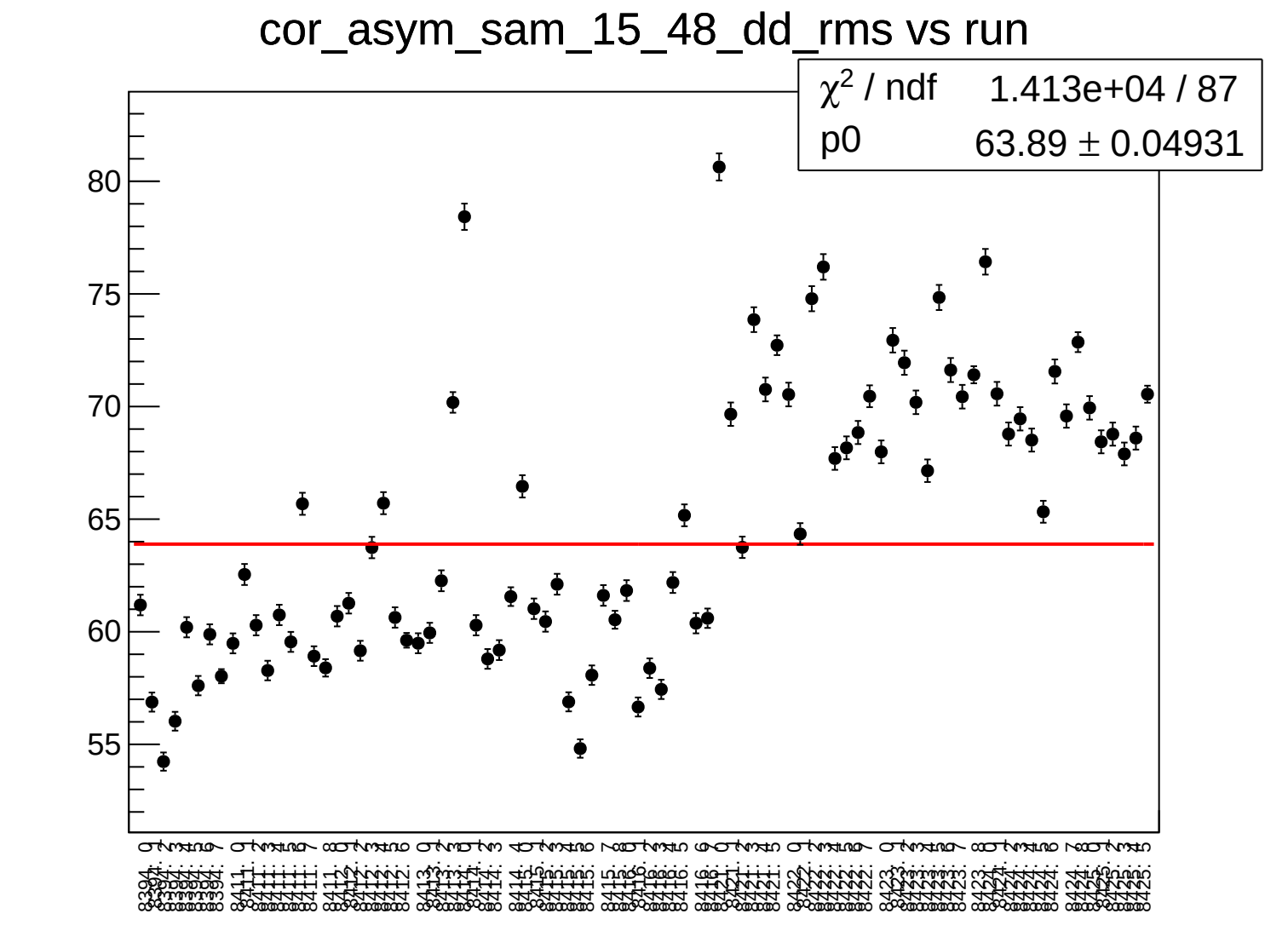

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 68.52 / 87
p0 5506 ± 1294
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −311.7
Std Dev 0
2
1
0
−1
−2

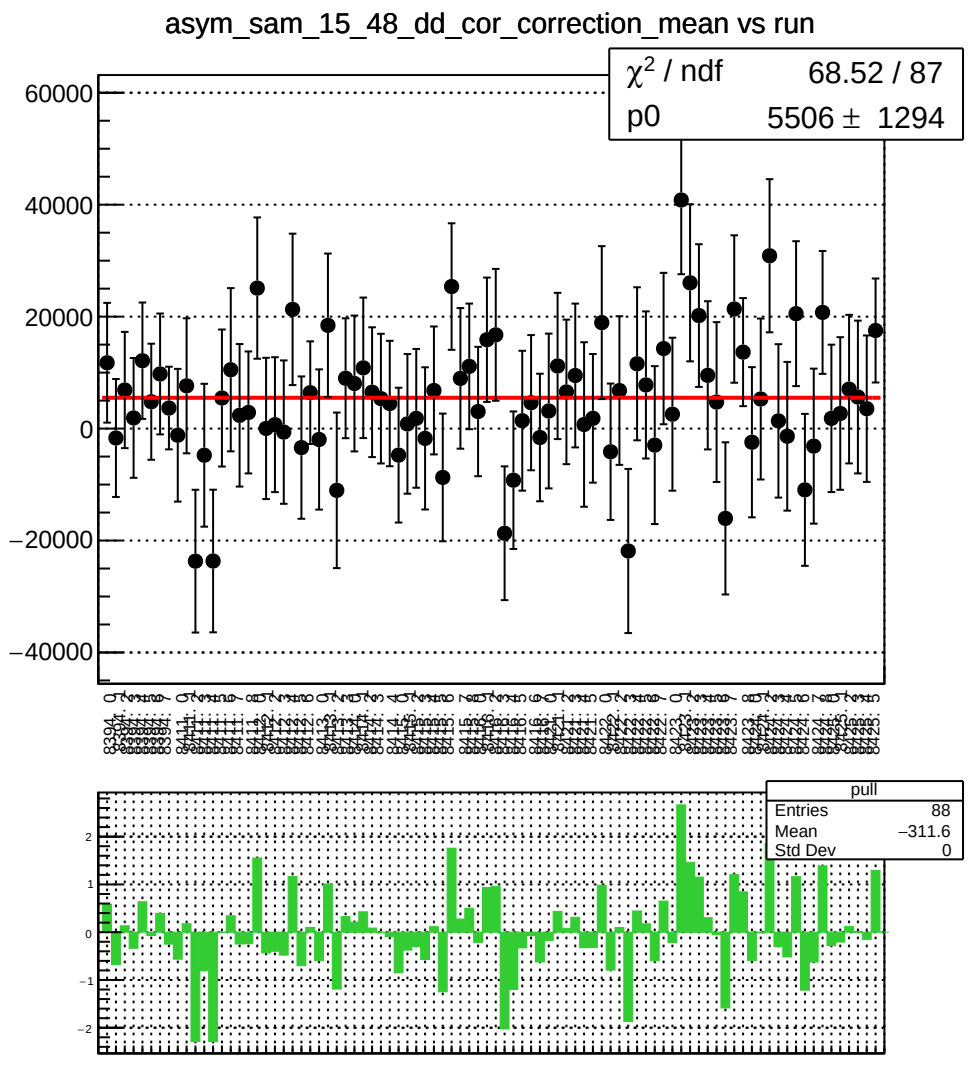

pull1D
Entries 88
Mean −0.01124
Std Dev 0.8823
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

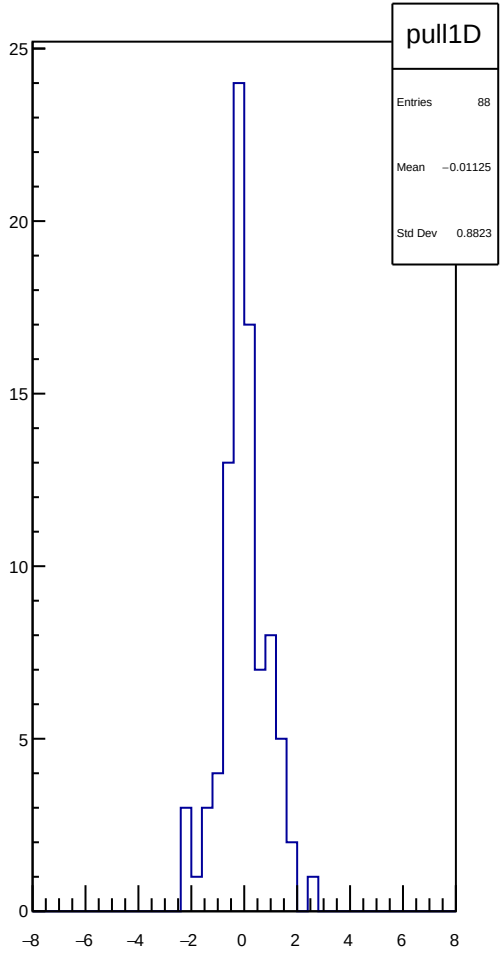

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 1.351e+04 / 87
p0 1186 ± 0.9148
1400
1300
1200
1100
1000

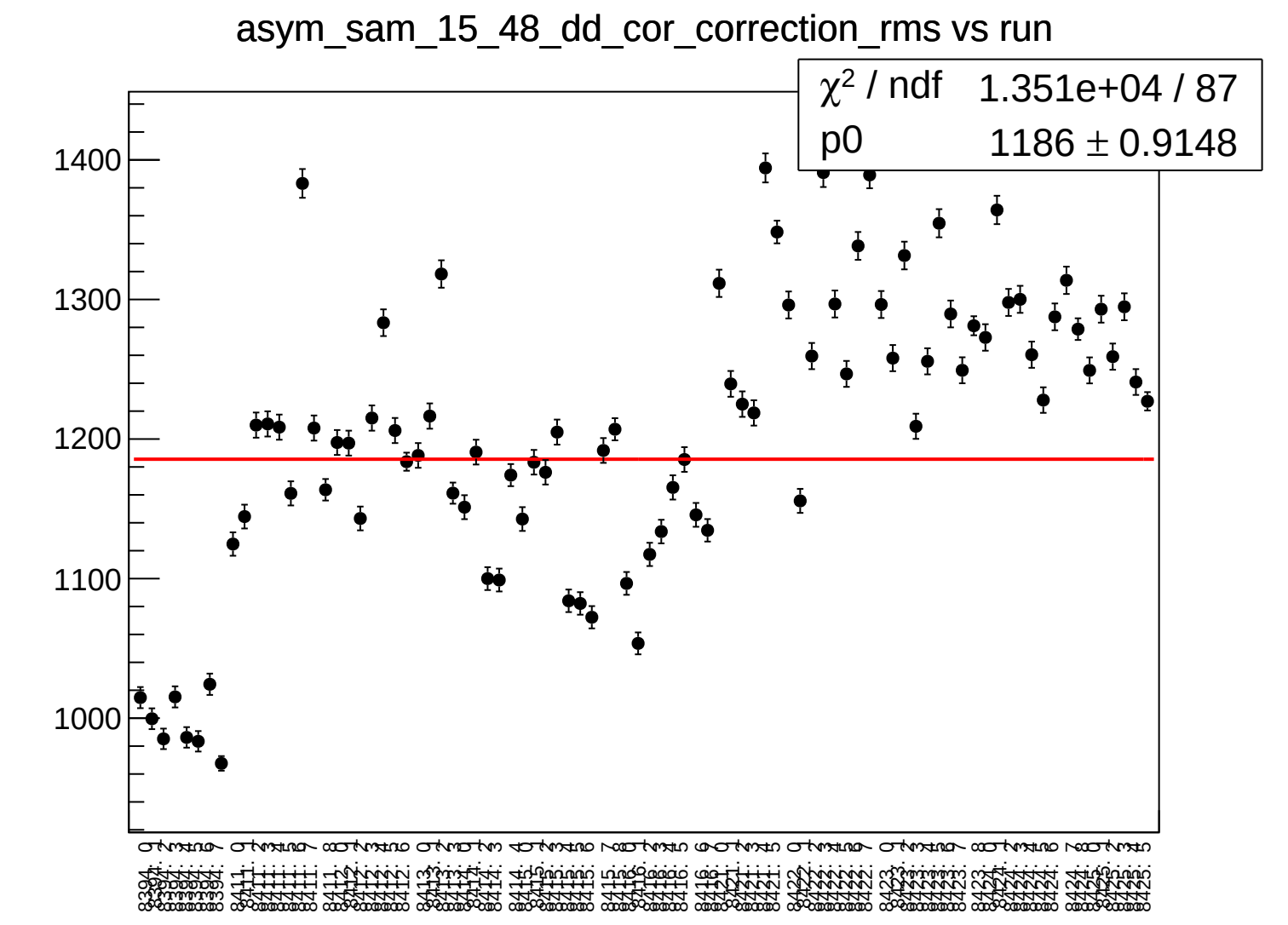

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 74.7 / 87
p0 −322.9 ± 69.74
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 893.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

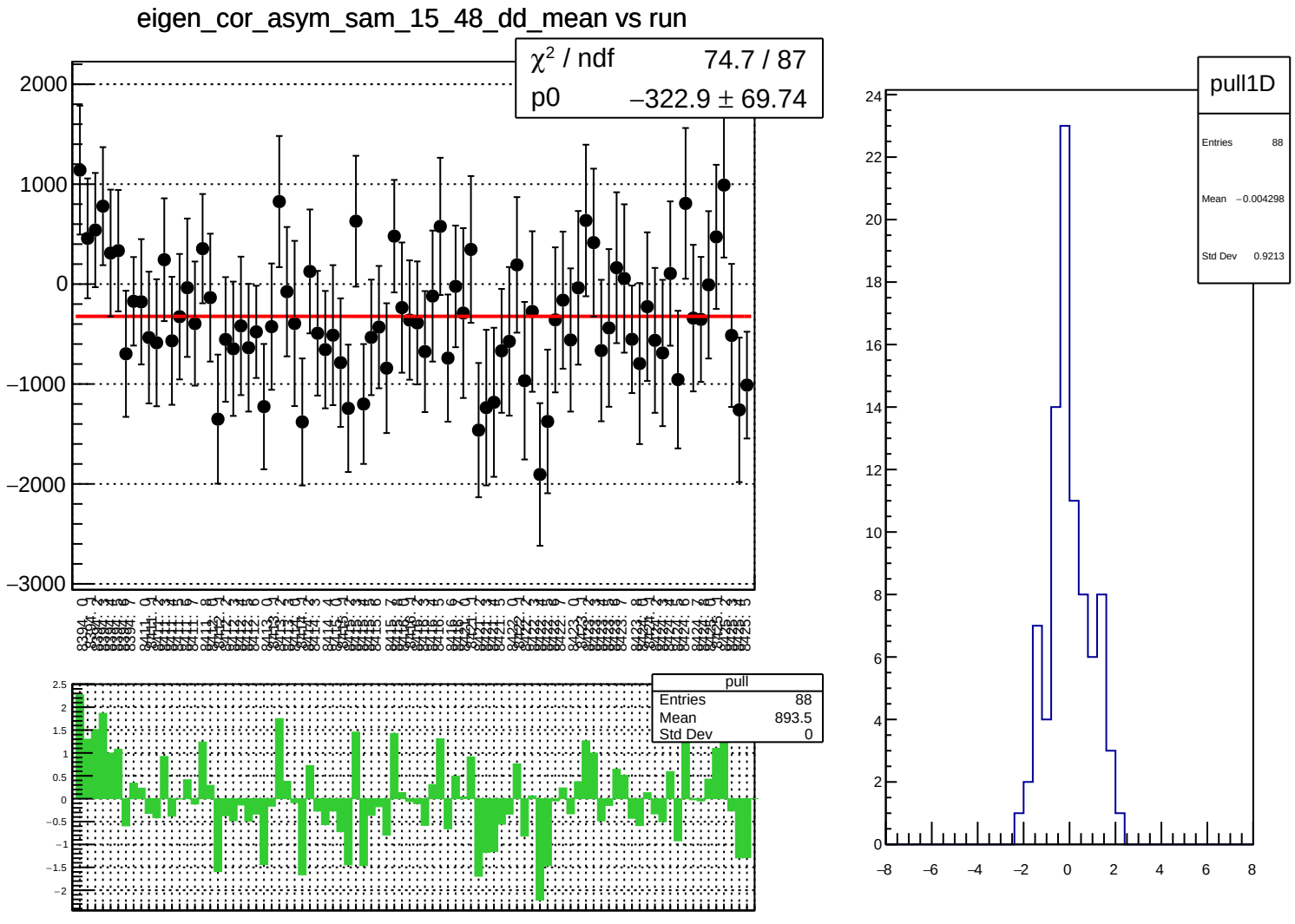

pull1D
Entries 88
Mean −0.004298
Std Dev 0.9213
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

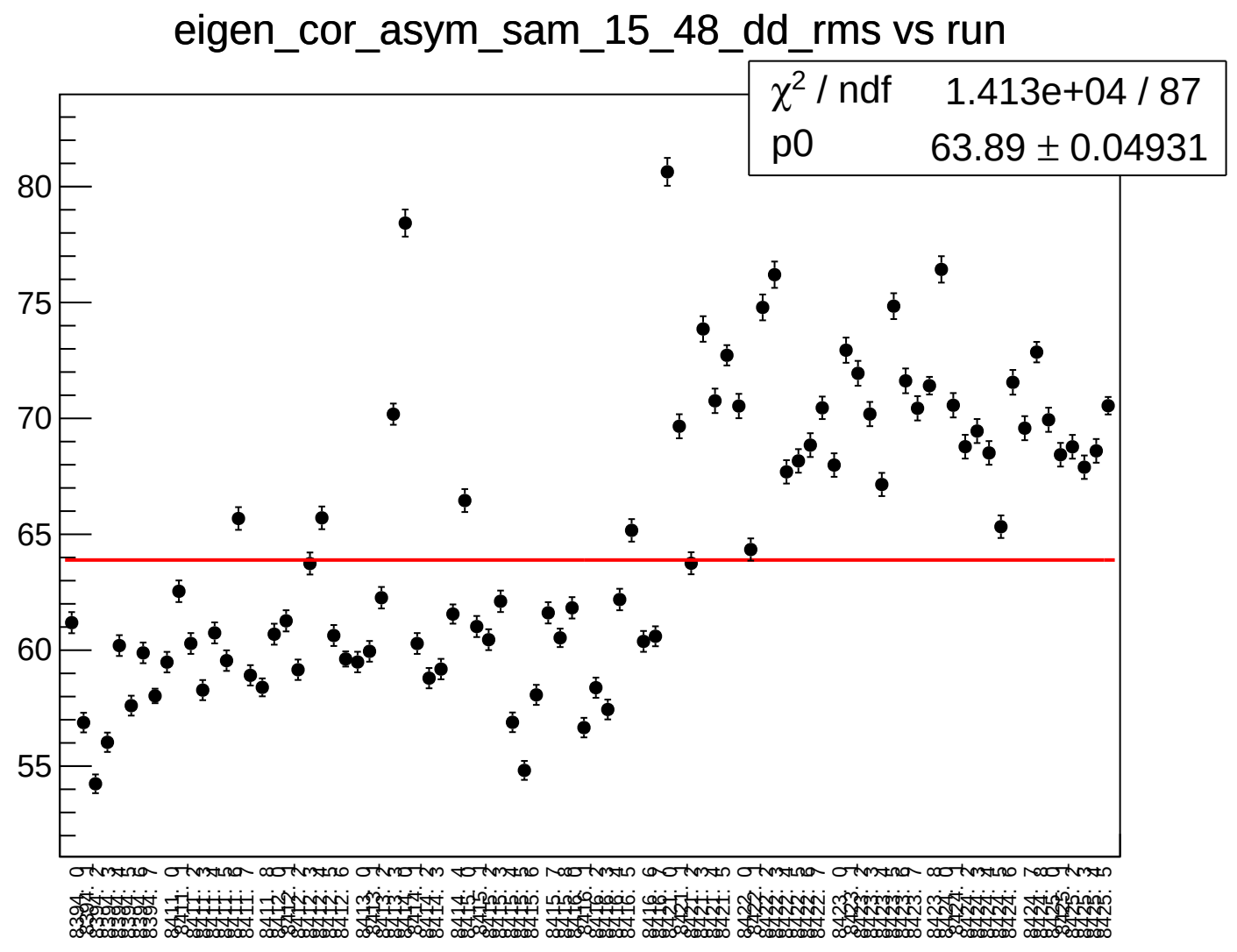

cor_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.413e+04 / 87
p0 63.89 ± 0.04931
80
75
70
65
60
55


asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 68.52 / 87
p0 5506 ± 1294
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −311.6
Std Dev 0
2
1
0
−1
−2

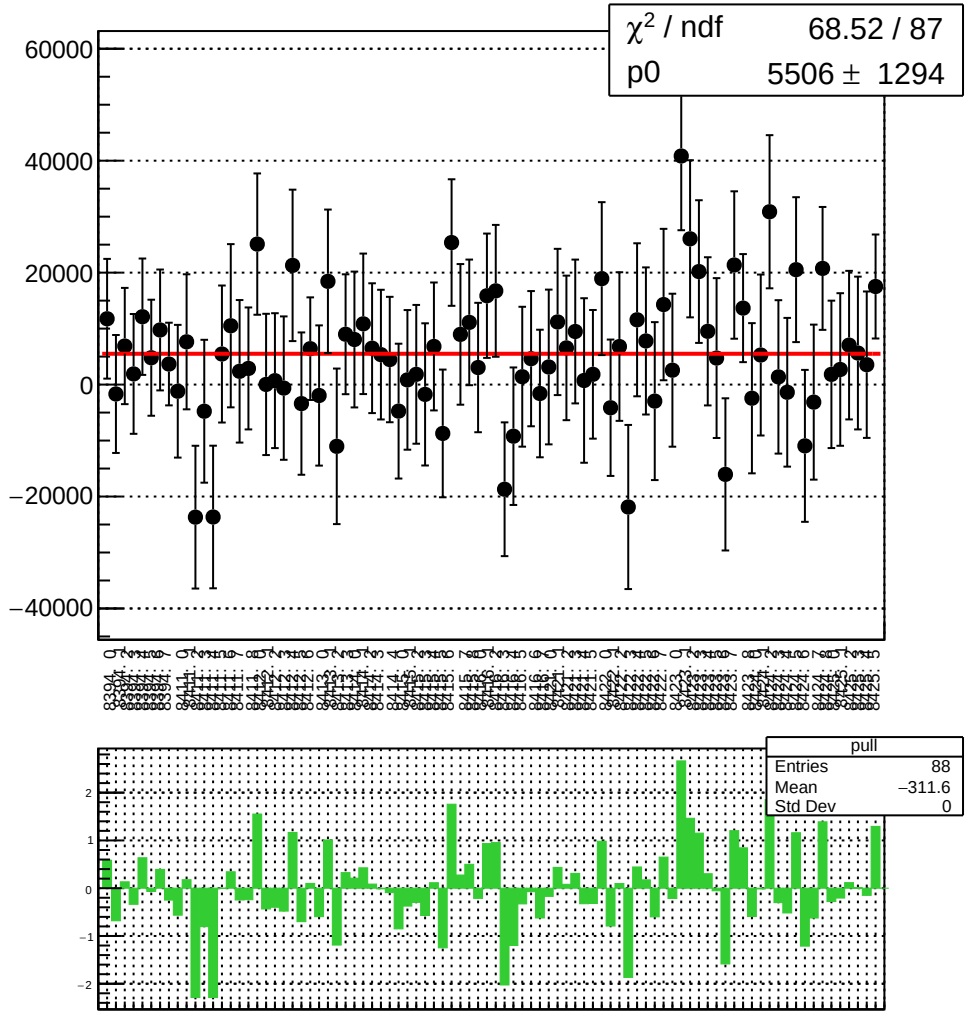

pull1D
Entries 88
Mean −0.01125
Std Dev 0.8823
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

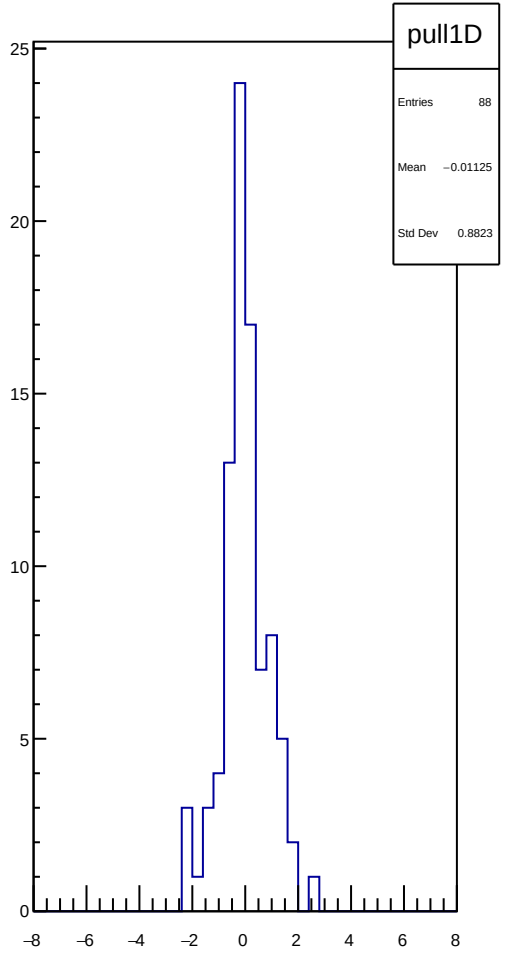

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 1.351e+04 / 87
p0 1186 ± 0.9148
1400
1300
1200
1100
1000

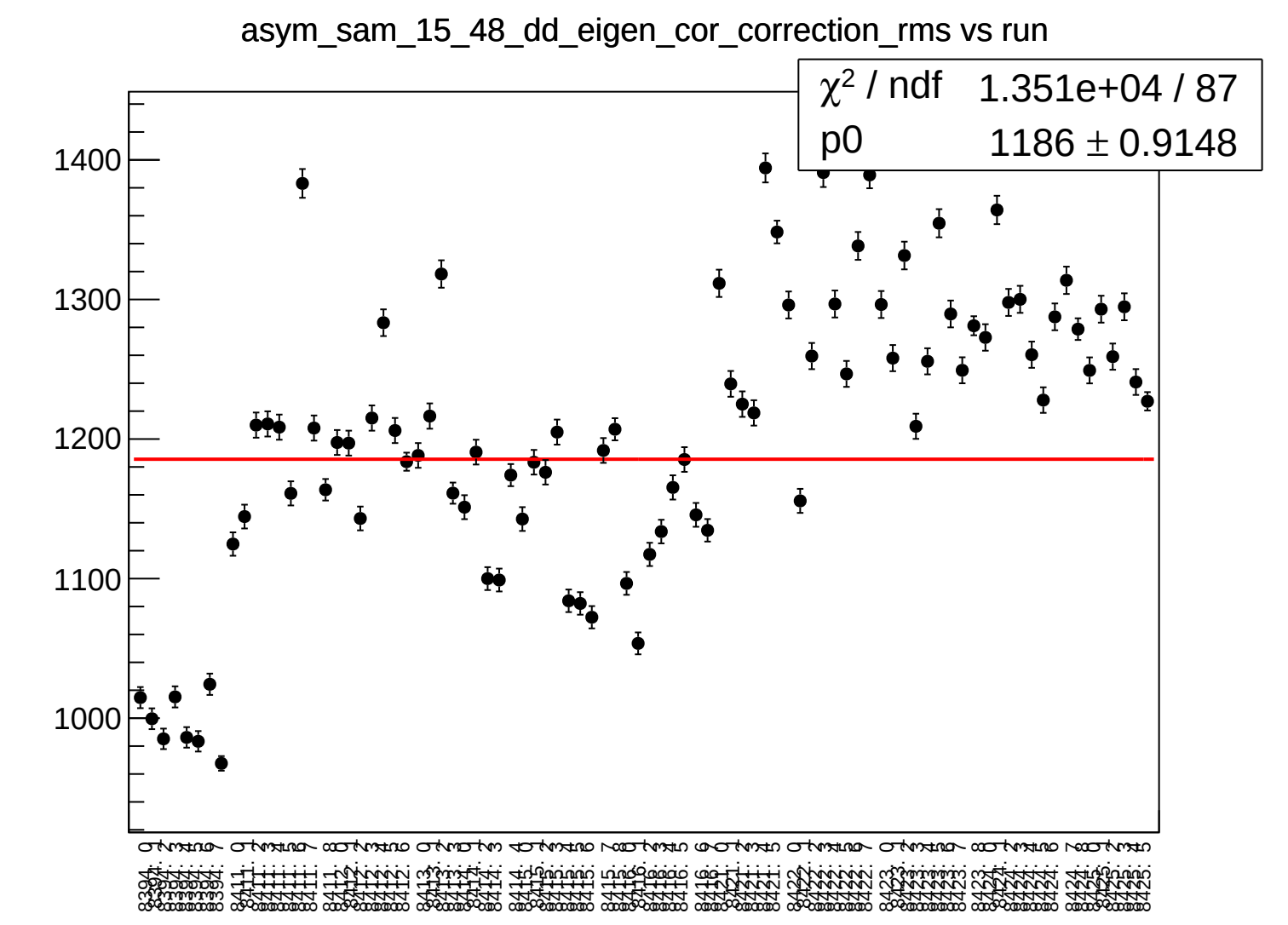

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 74.7 / 87
p0 −322.9 ± 69.74
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 893.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.004298
Std Dev 0.9213
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

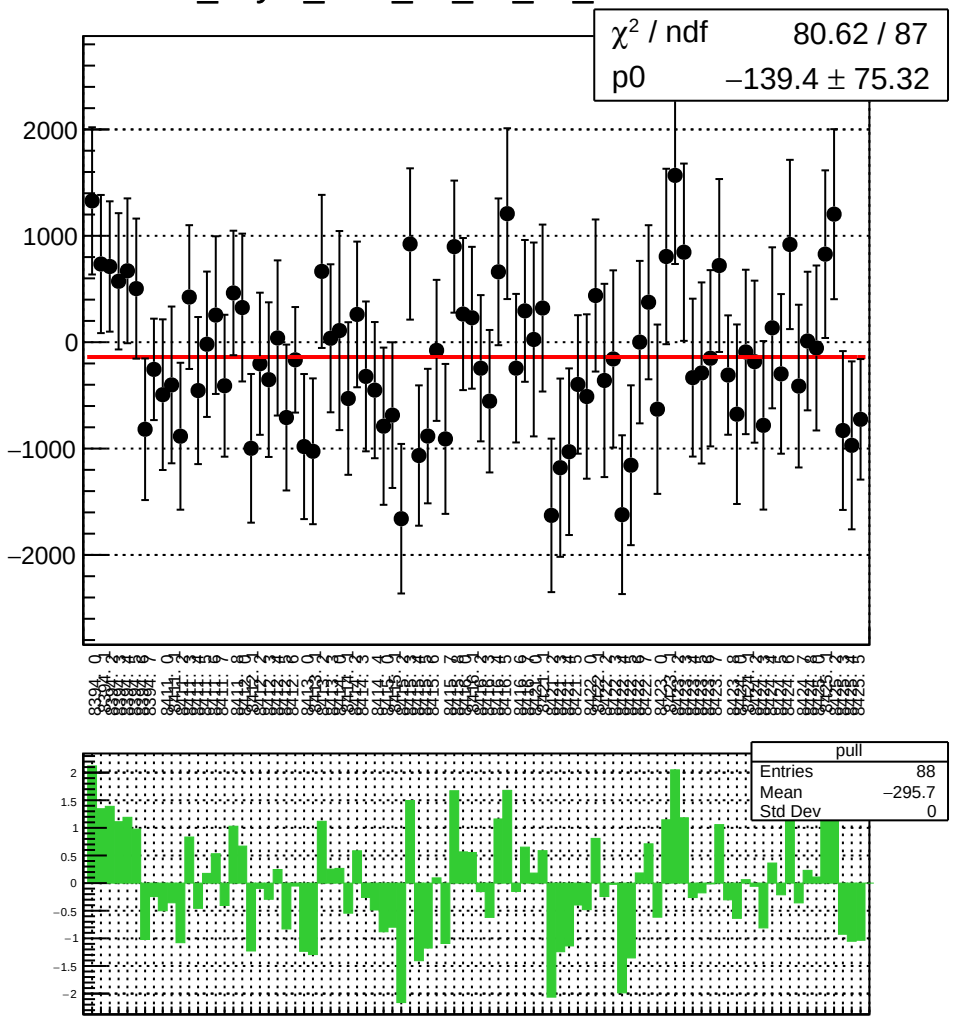

eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.413e+04 / 87
p0 63.89 ± 0.04931
80
75
70
65
60
55

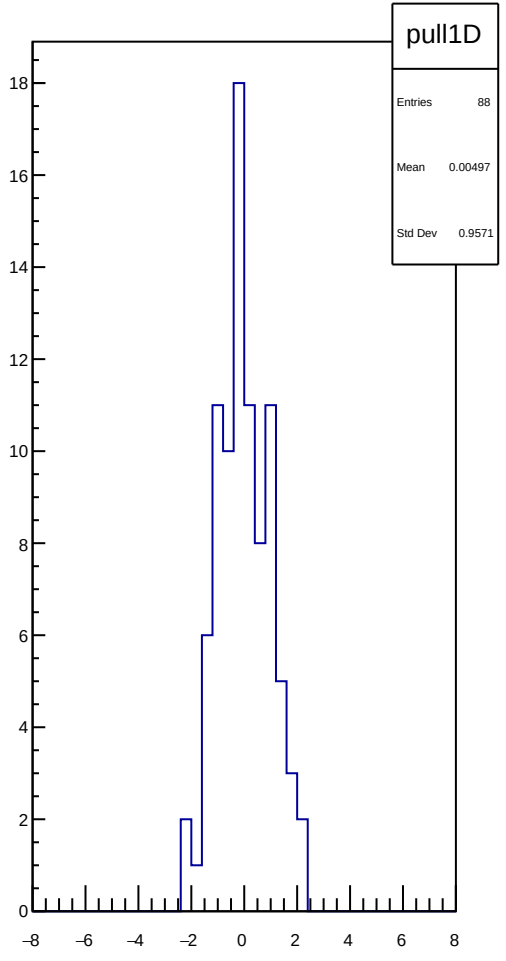
asym_sam_15_48_dd_eigen_cor_correction_mean vs run

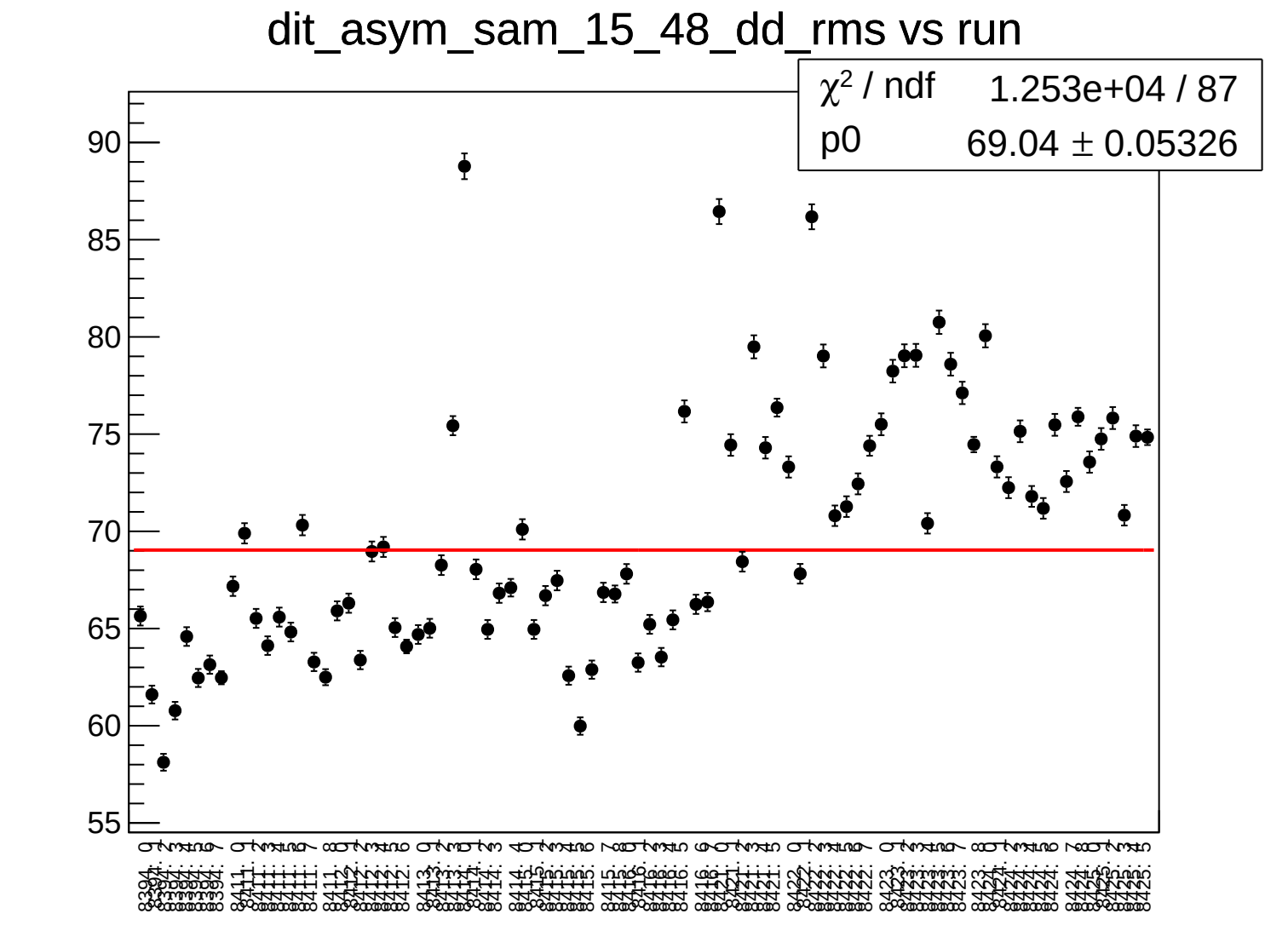


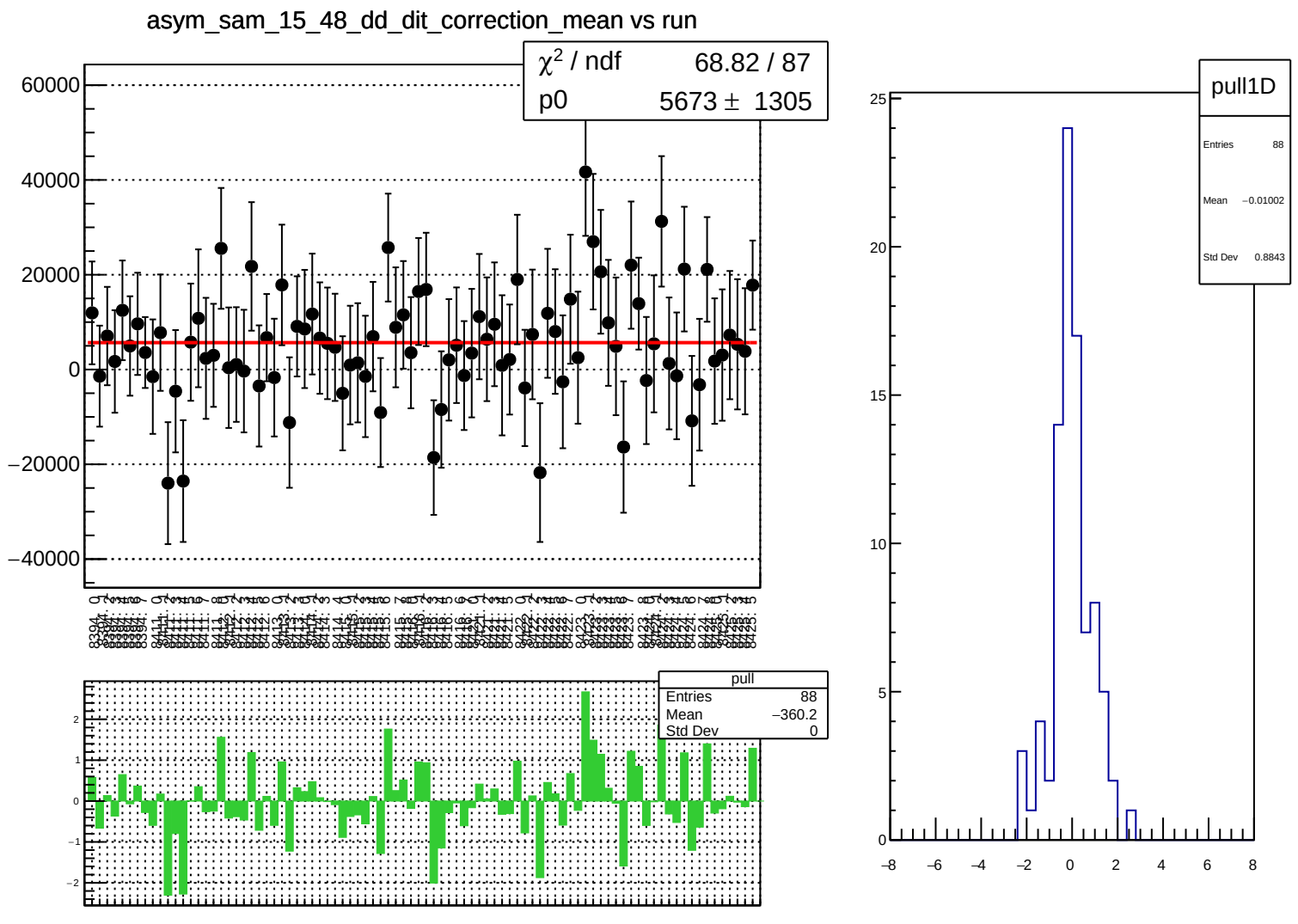


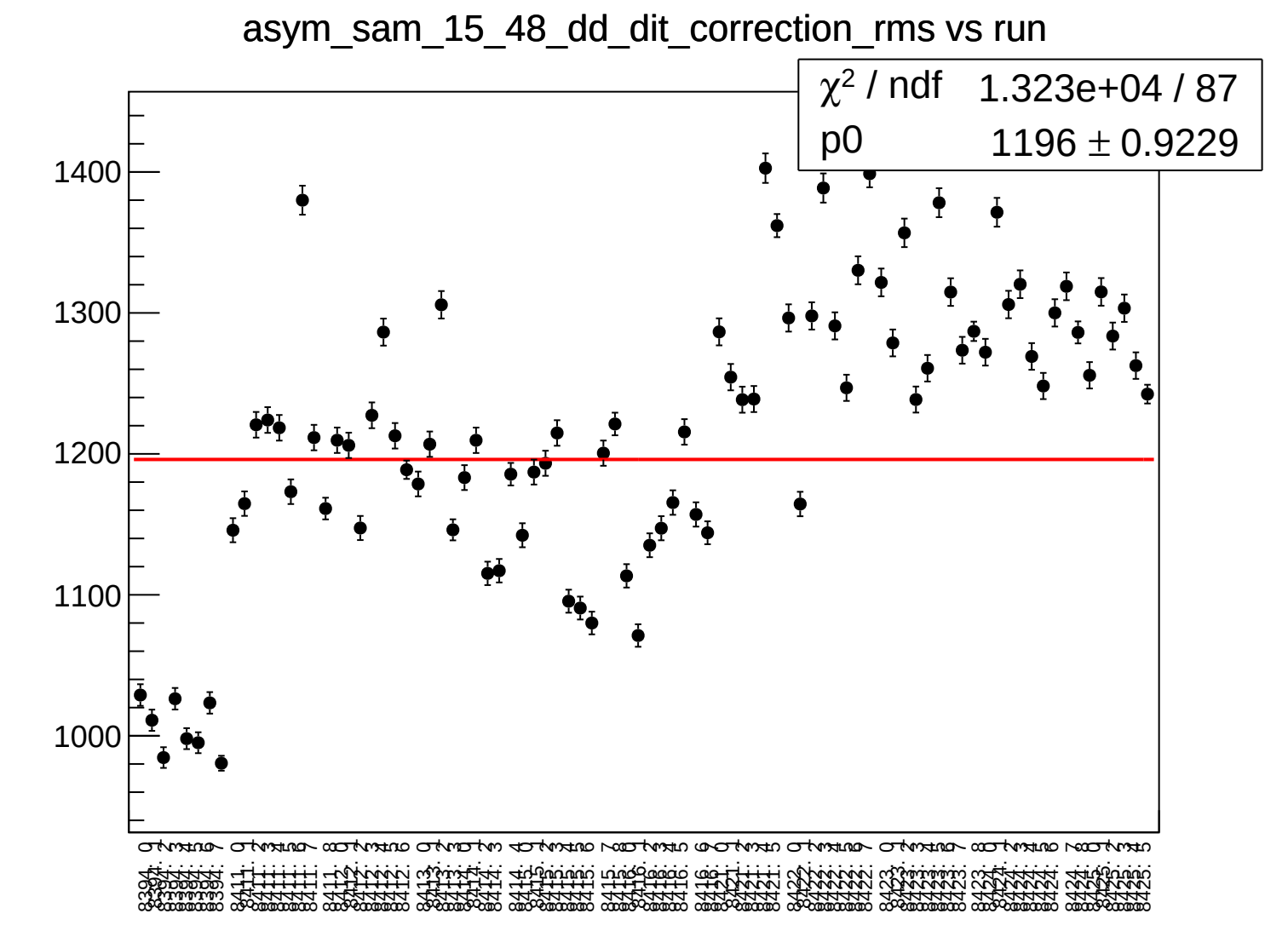

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.351e+04 / 87
p0 1186 ± 0.9148
1400
1300
1200
1100
1000

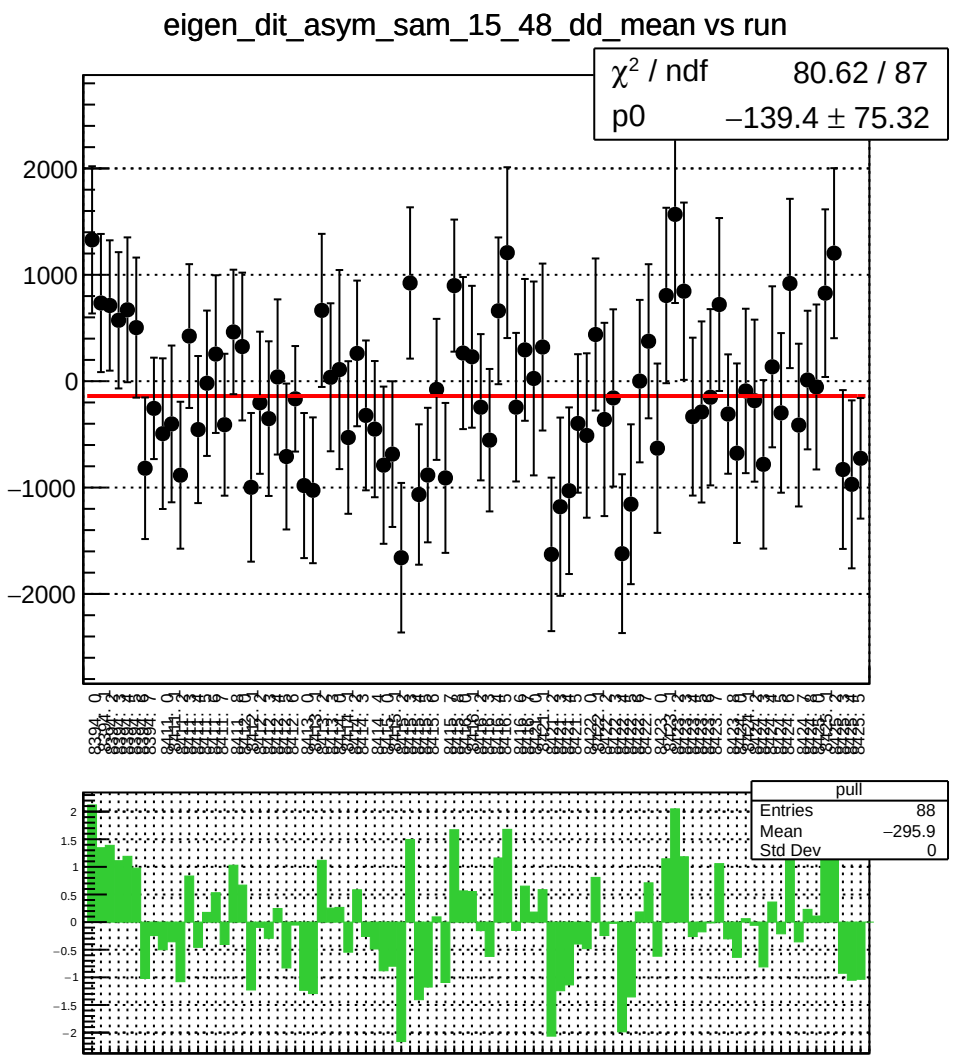

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 80.62 / 87
p0 −139.4 ± 75.32
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −295.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

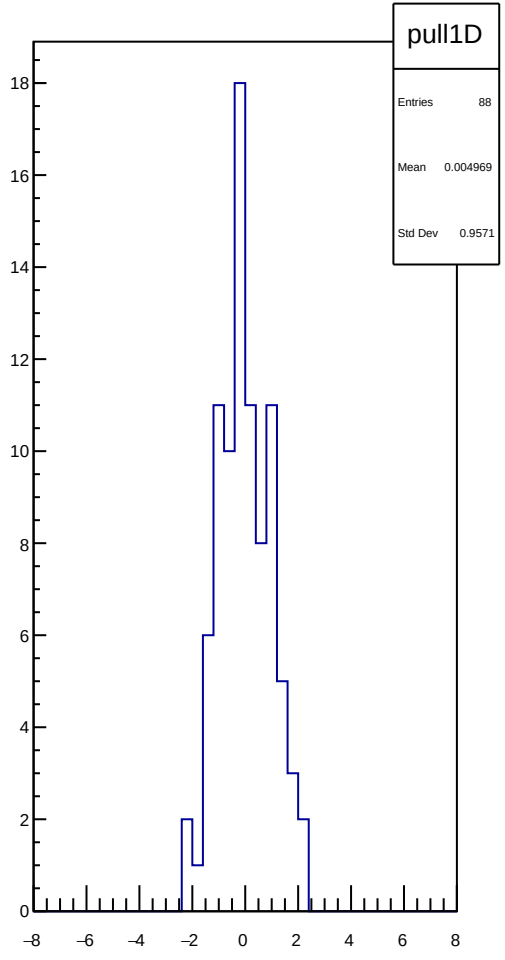

pull1D
Entries 88
Mean 0.00497
Std Dev 0.9571
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

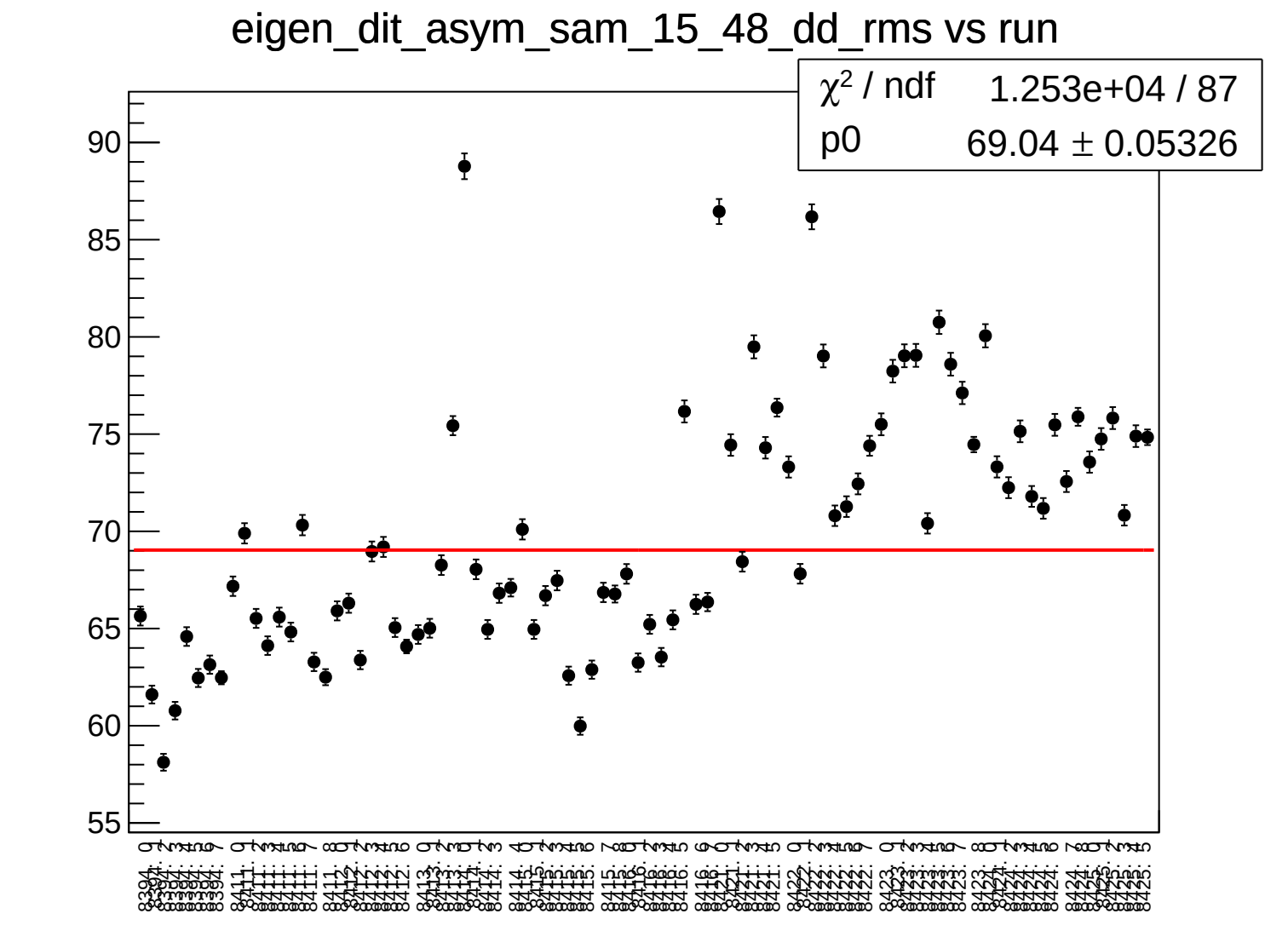

dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.253e+04 / 87
p0 69.04 ± 0.05326
90
85
80
75
70
65
60
55

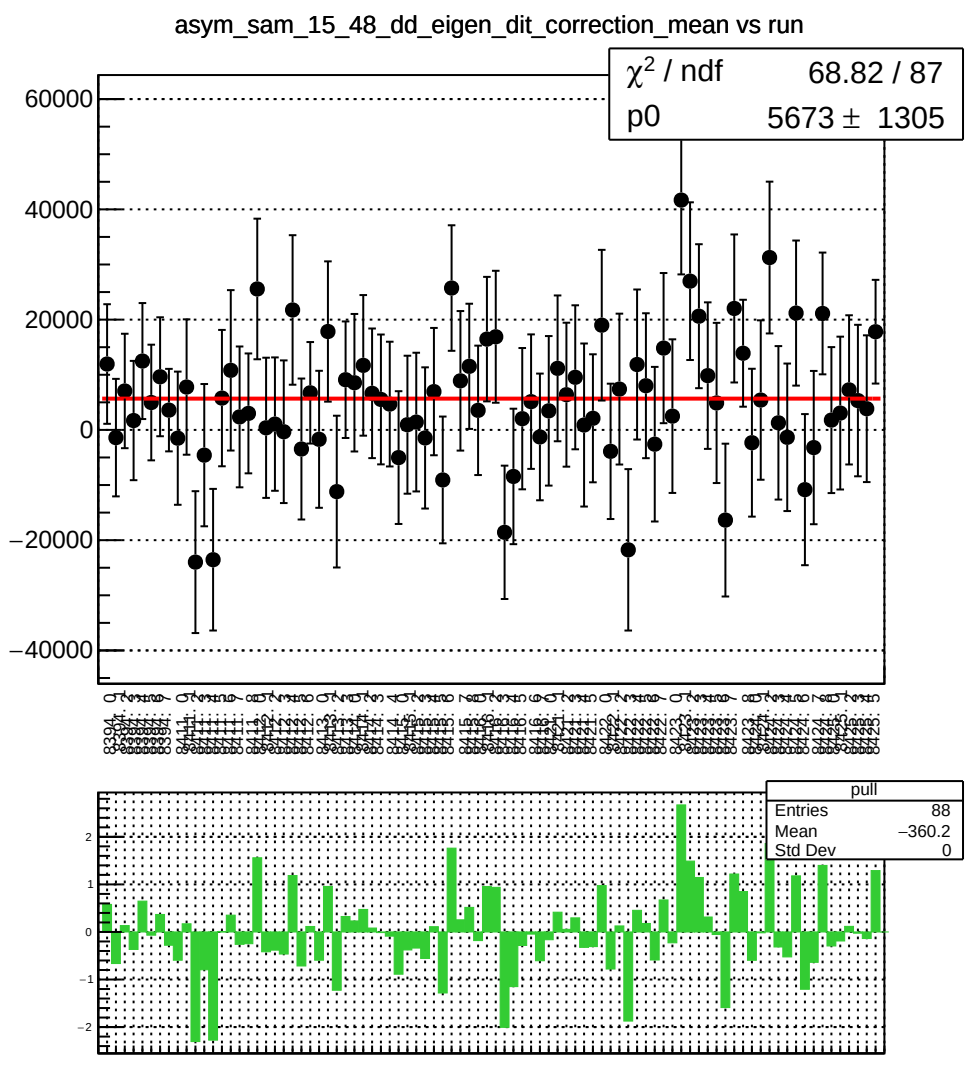

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 68.82 / 87
p0 5673 ± 1305
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −360.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01002
Std Dev 0.8843
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

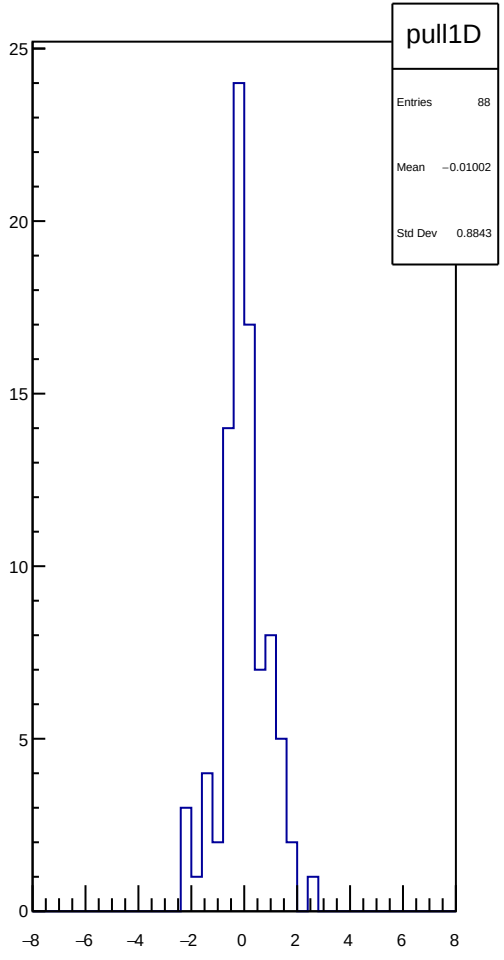

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 1.323e+04 / 87
p0 1196 ± 0.9229
1400
1300
1200
1100
1000

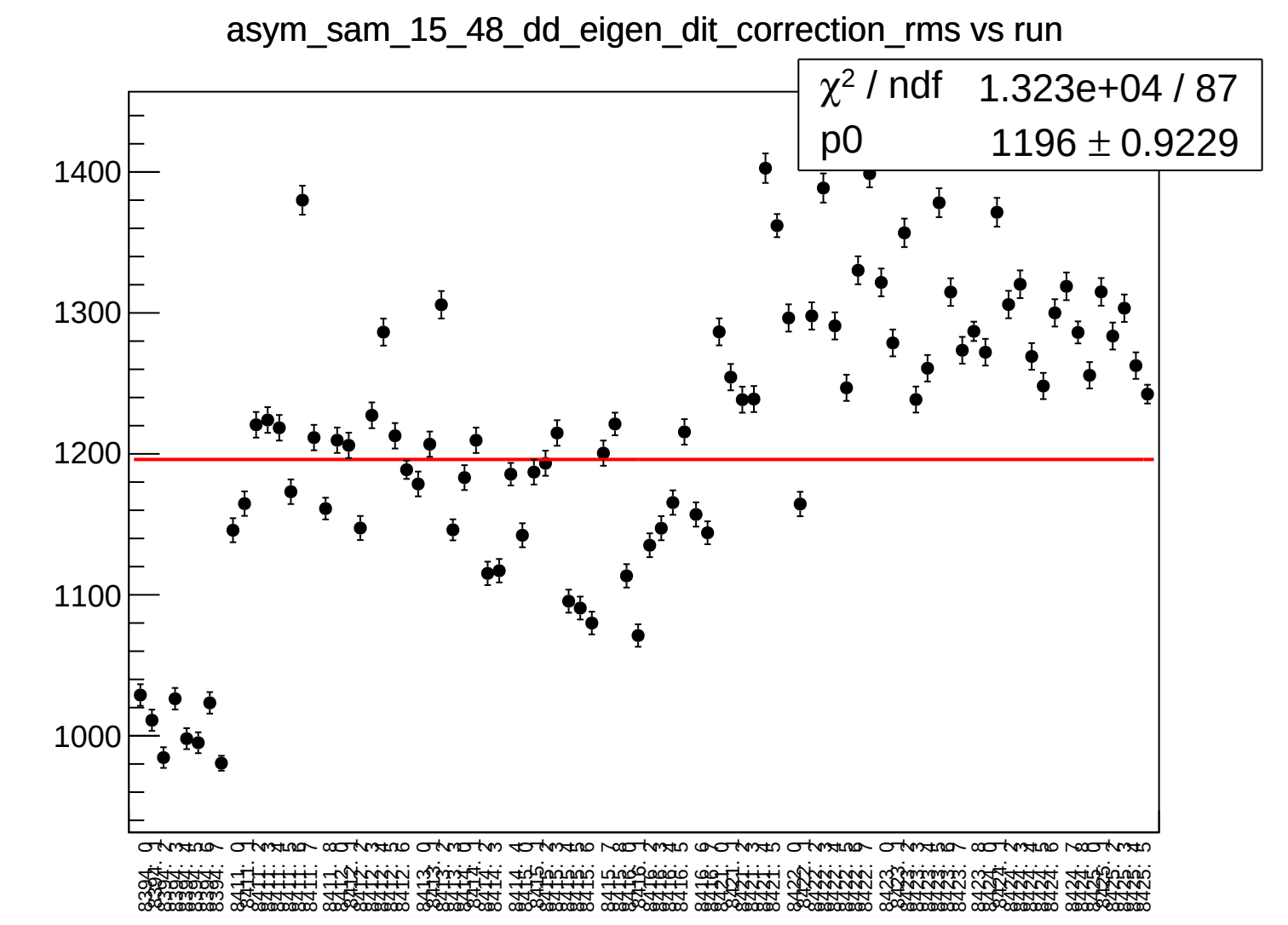

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 80.62 / 87
p0 −139.4 ± 75.32
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −295.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

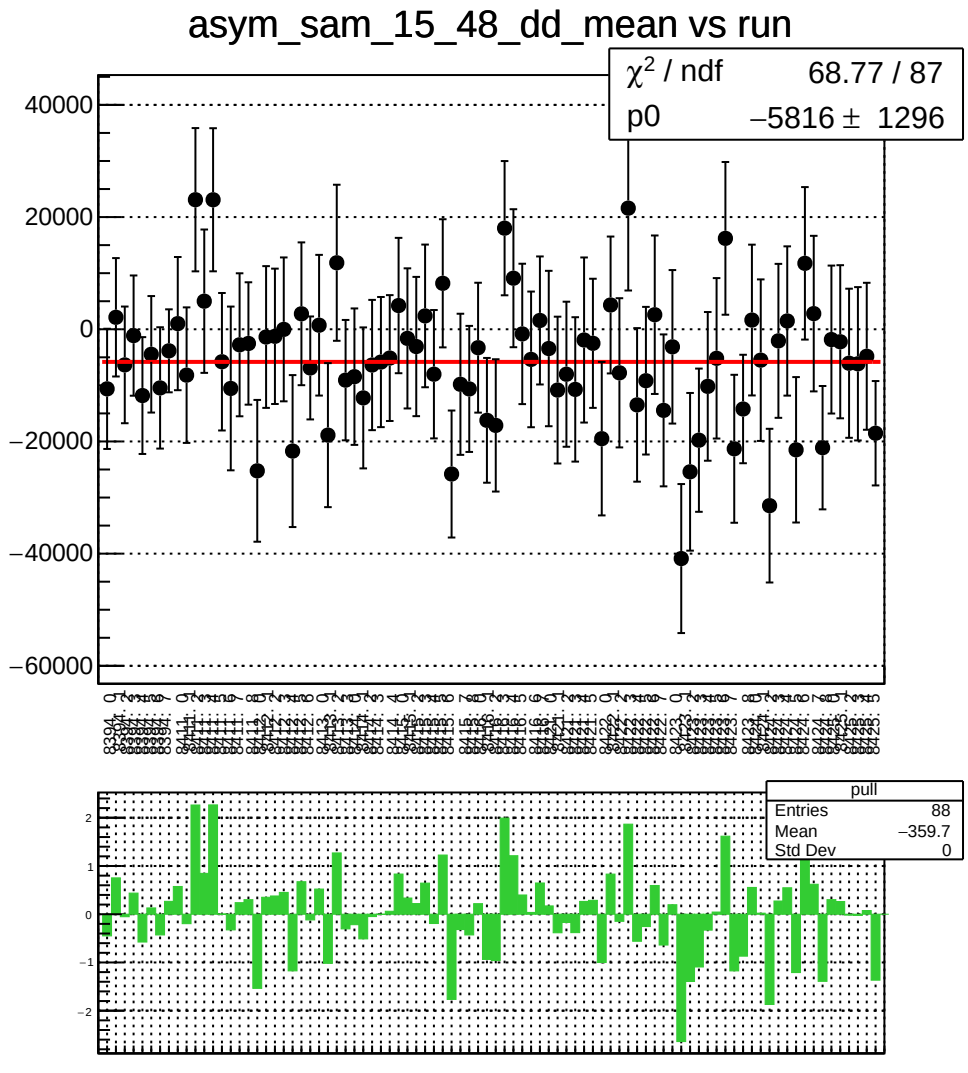

pull1D
Entries 88
Mean 0.004969
Std Dev 0.9571
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

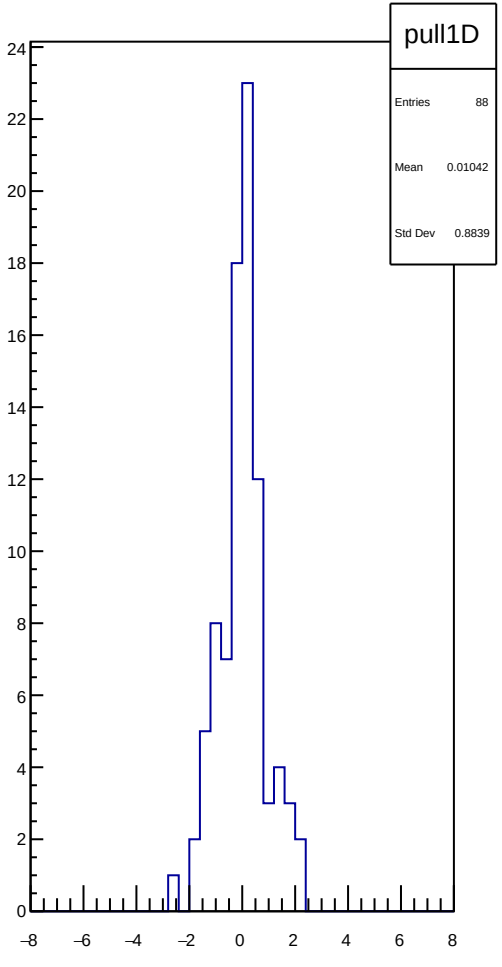

eigen_dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.253e+04 / 87
p0 69.04 ± 0.05326
90
85
80
75
70
65
60
55

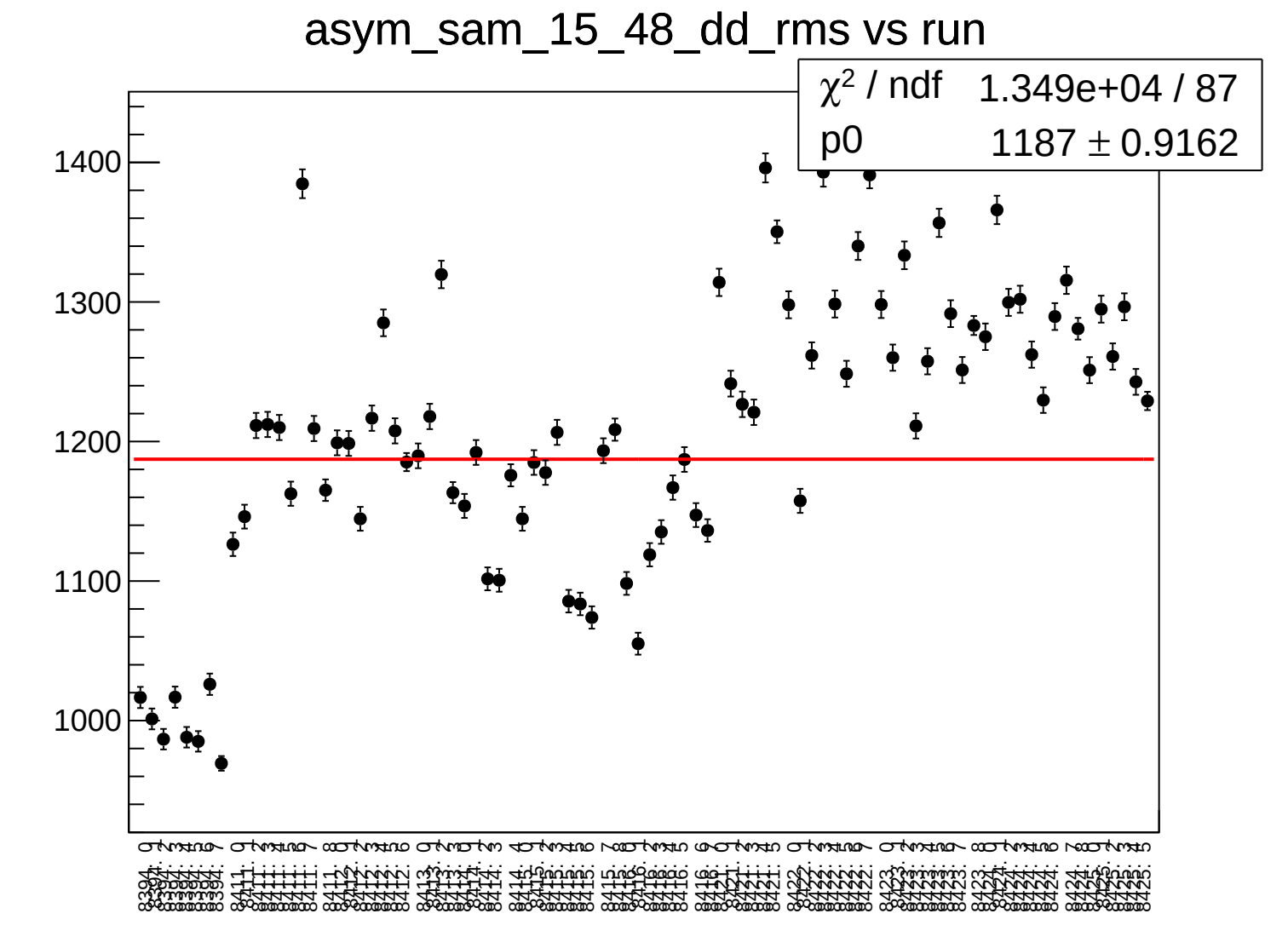

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 68.82 / 87
p0 5673 ± 1305
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −360.2
Std Dev 0
2
1
0
−1
−2

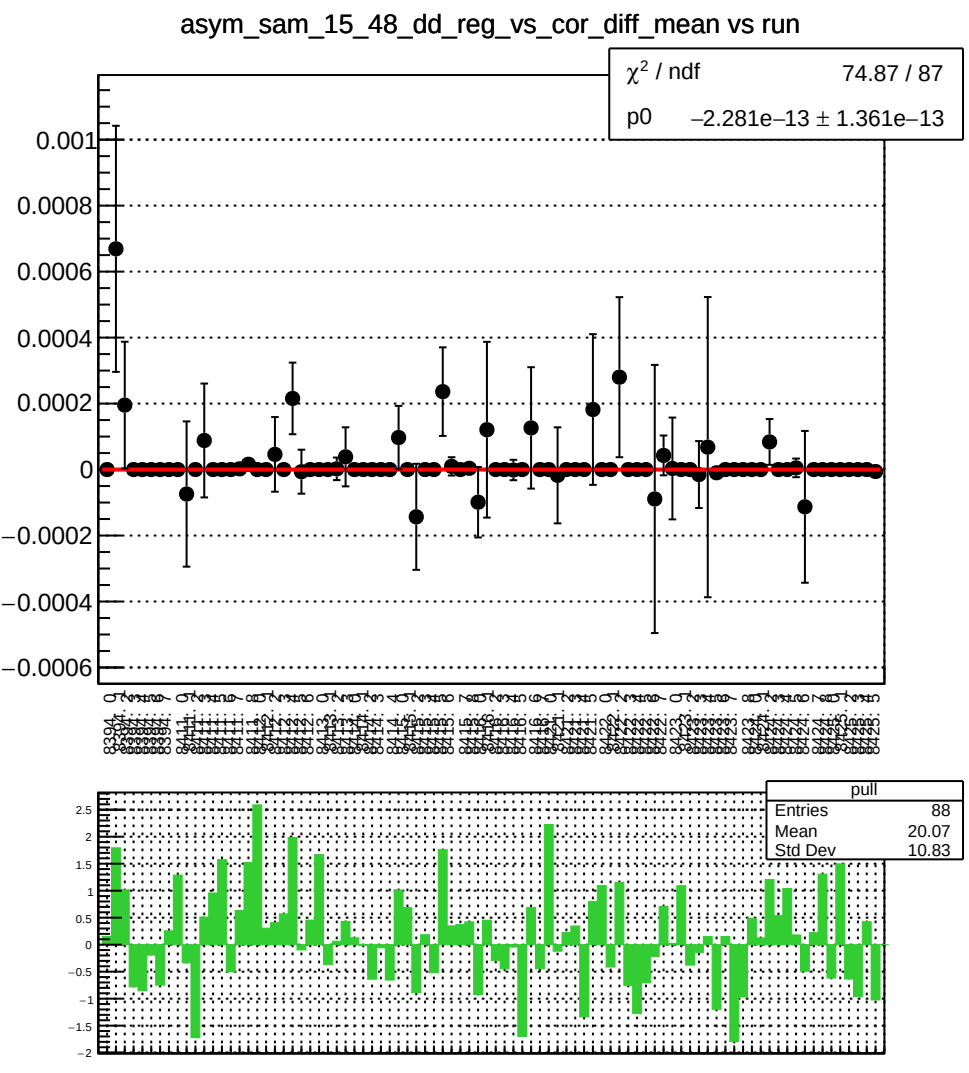

pull1D
Entries 88
Mean −0.01002
Std Dev 0.8843
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

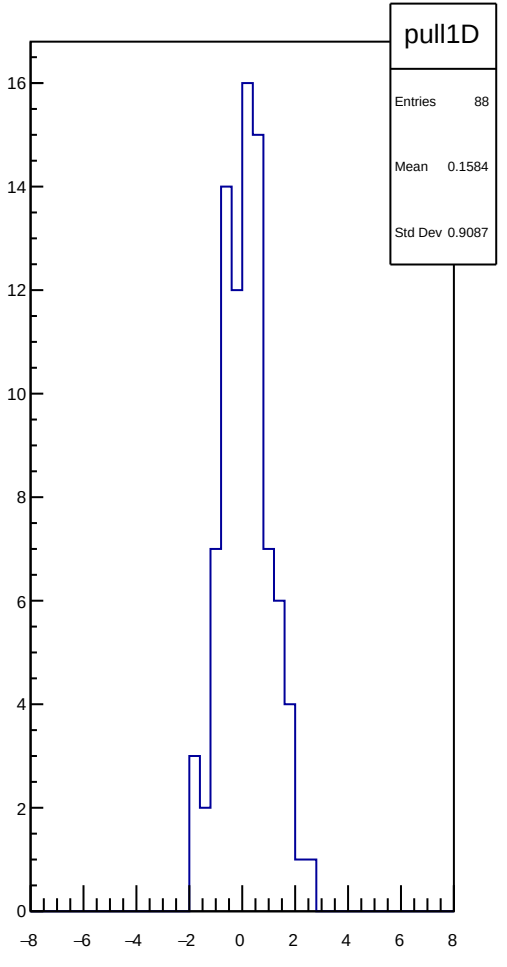

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.323e+04 / 87
p0 1196 ± 0.9229
1400
1300
1200
1100
1000

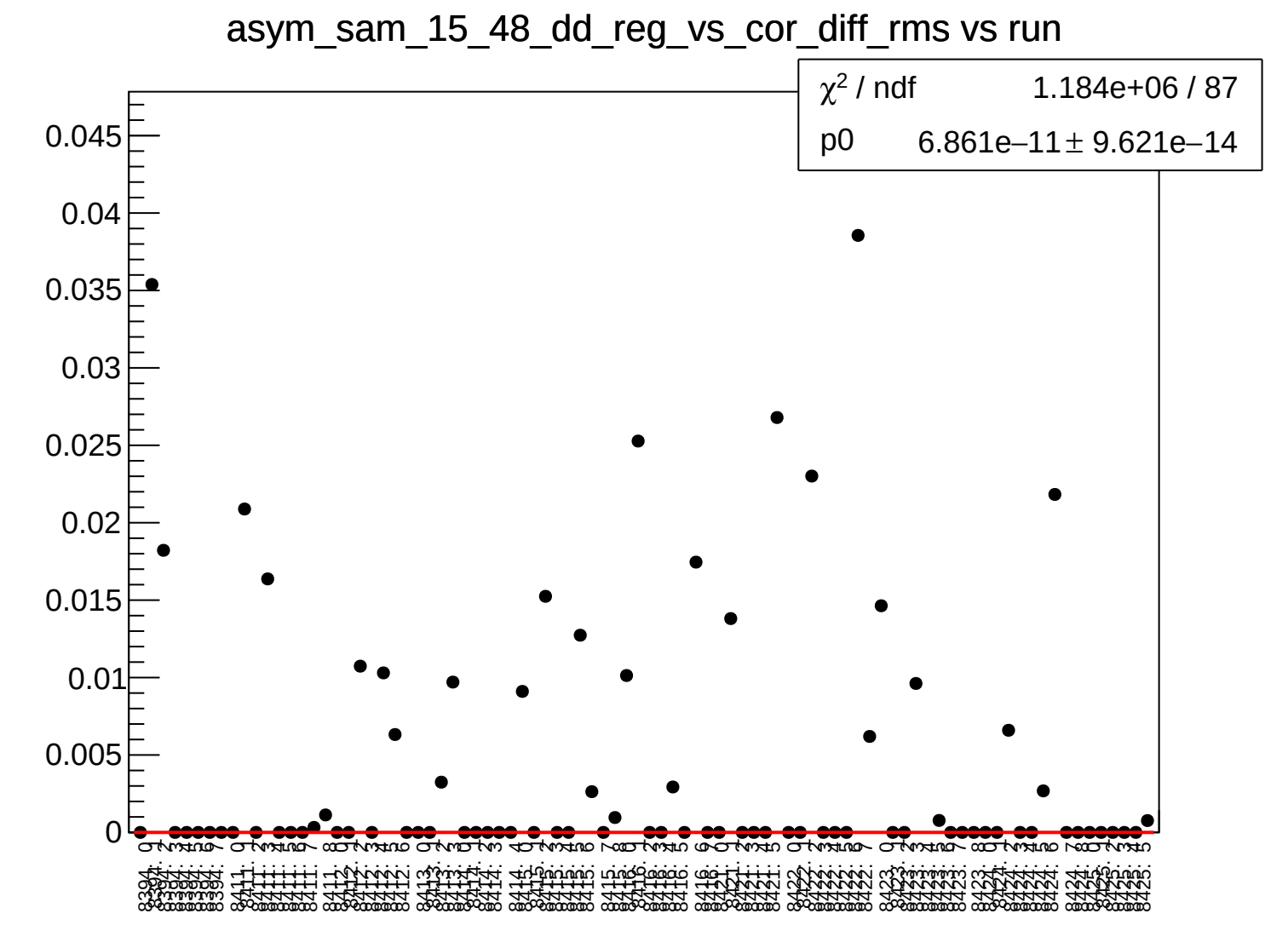

asym_sam_15_48_dd_mean vs run
χ² / ndf 68.77 / 87
p0 −5816 ± 1296
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −359.7
Std Dev 0
2
1
0
−1
−2

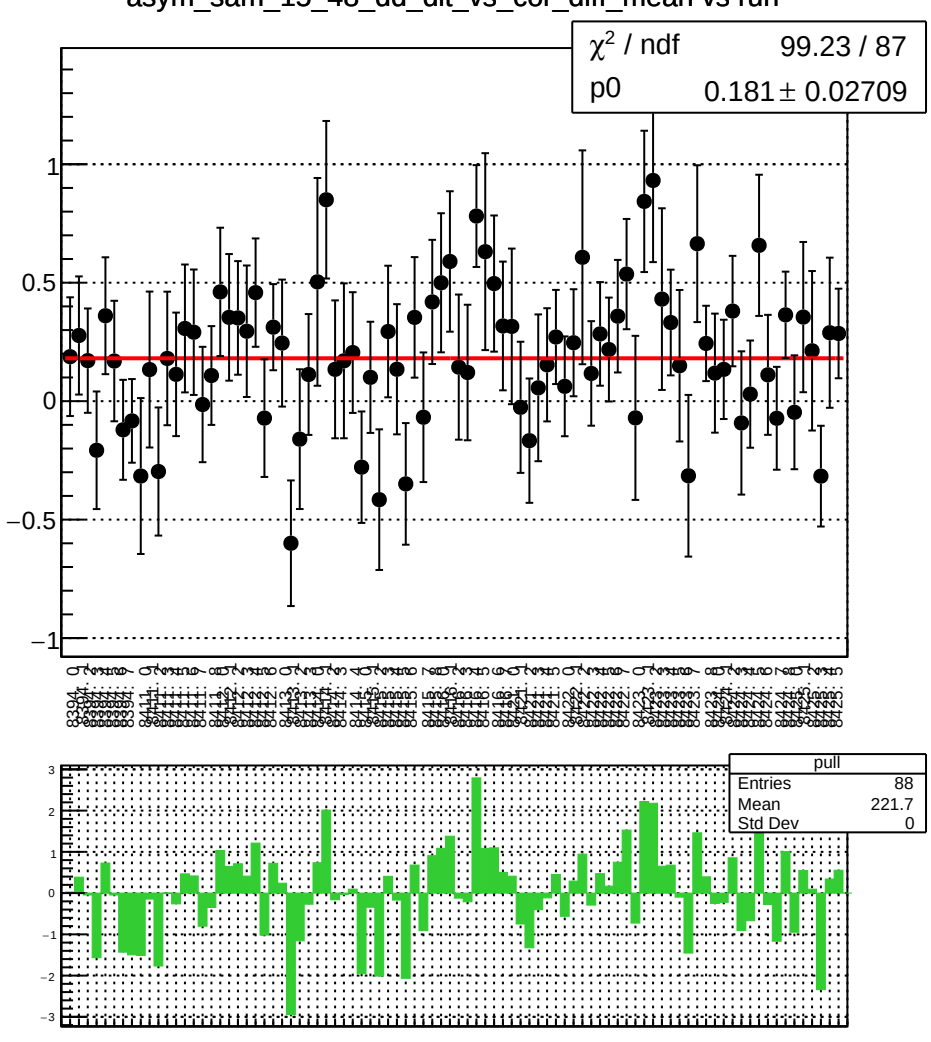

pull1D
Entries 88
Mean 0.01042
Std Dev 0.8839
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

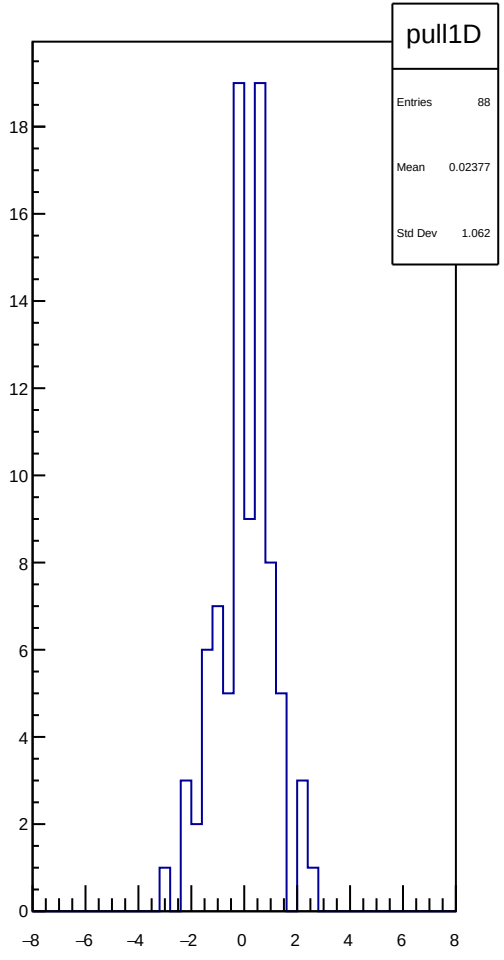

asym_sam_15_48_dd_rms vs run
χ² / ndf 1.349e+04 / 87
p0 1187 ± 0.9162
1400
1300
1200
1100
1000

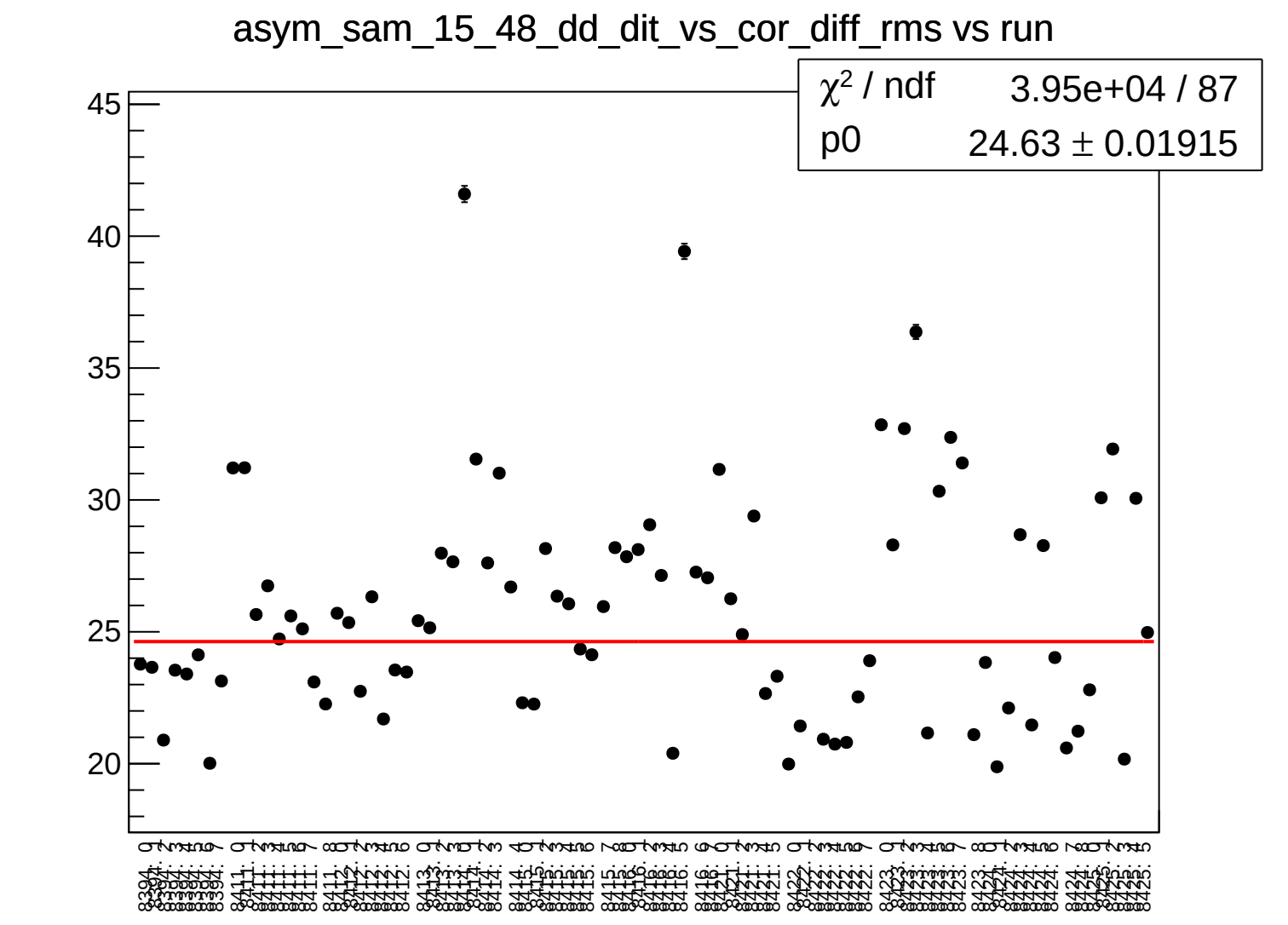

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 74.87 / 87
p0 −2.281e−13 ± 1.361e−13
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
pull
Entries 88
Mean 20.07
Std Dev 10.83
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

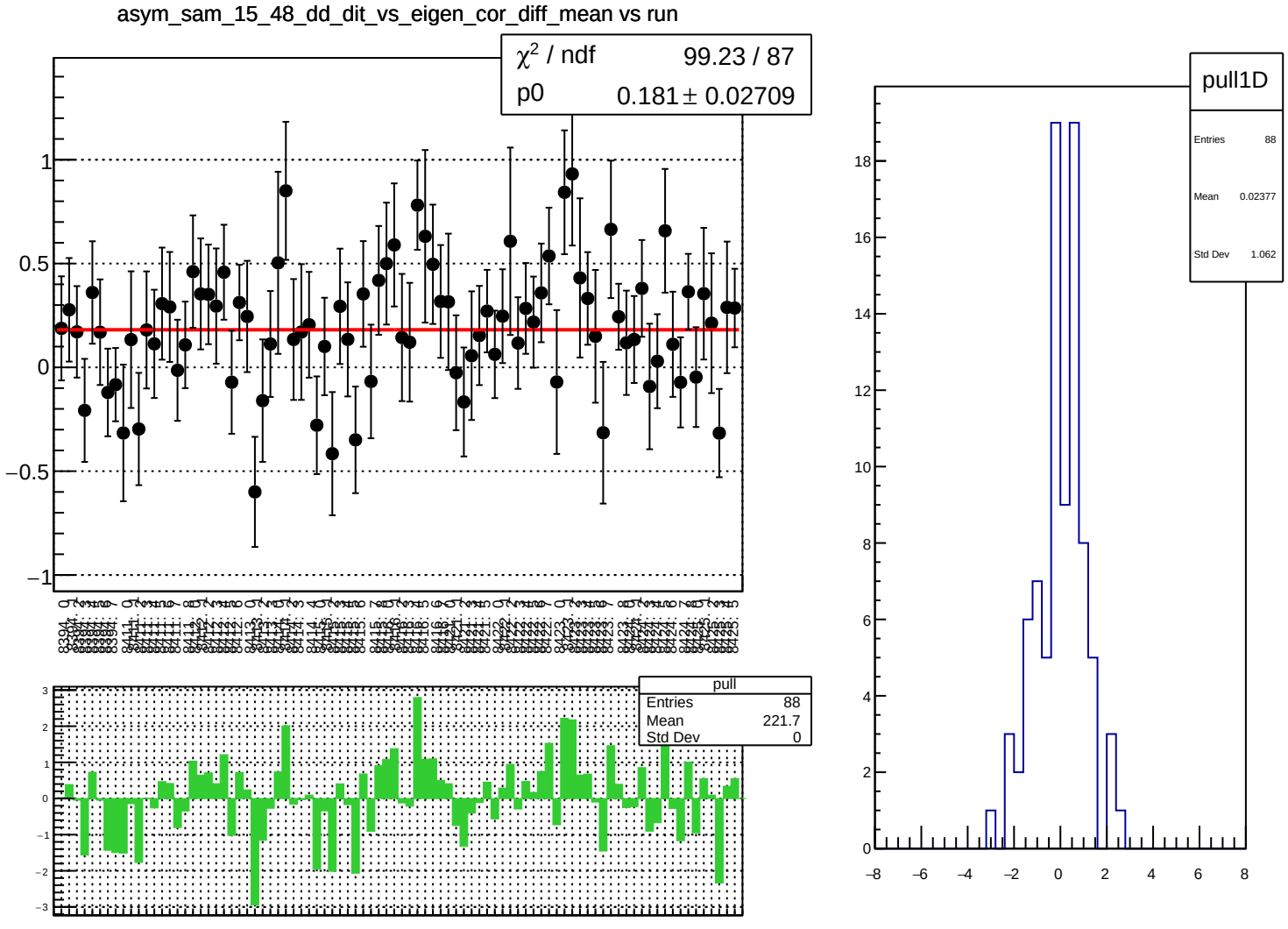

pull1D
Entries 88
Mean 0.1584
Std Dev 0.9087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

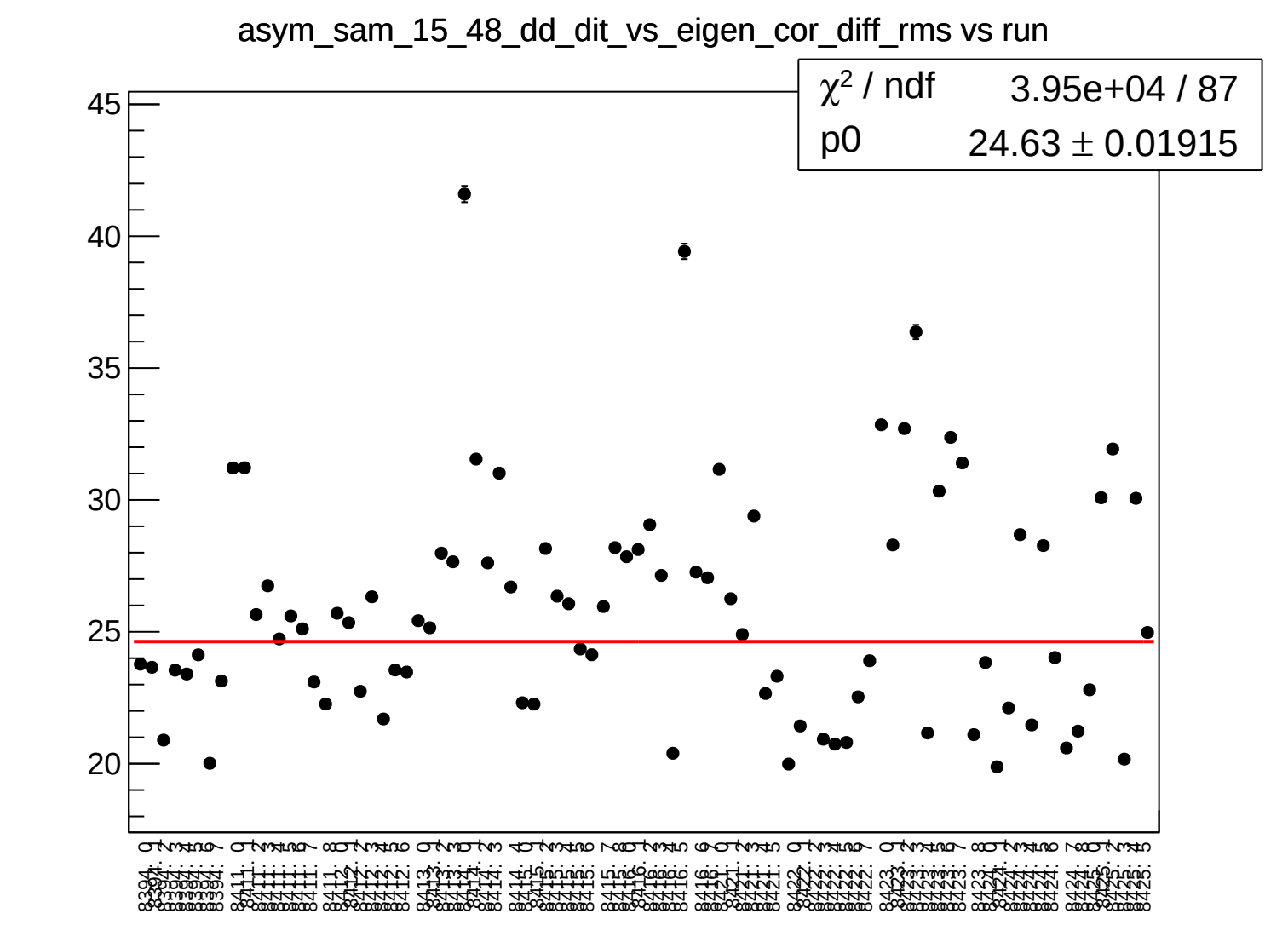

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.184e+06 / 87
p0 6.861e−11 ± 9.621e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

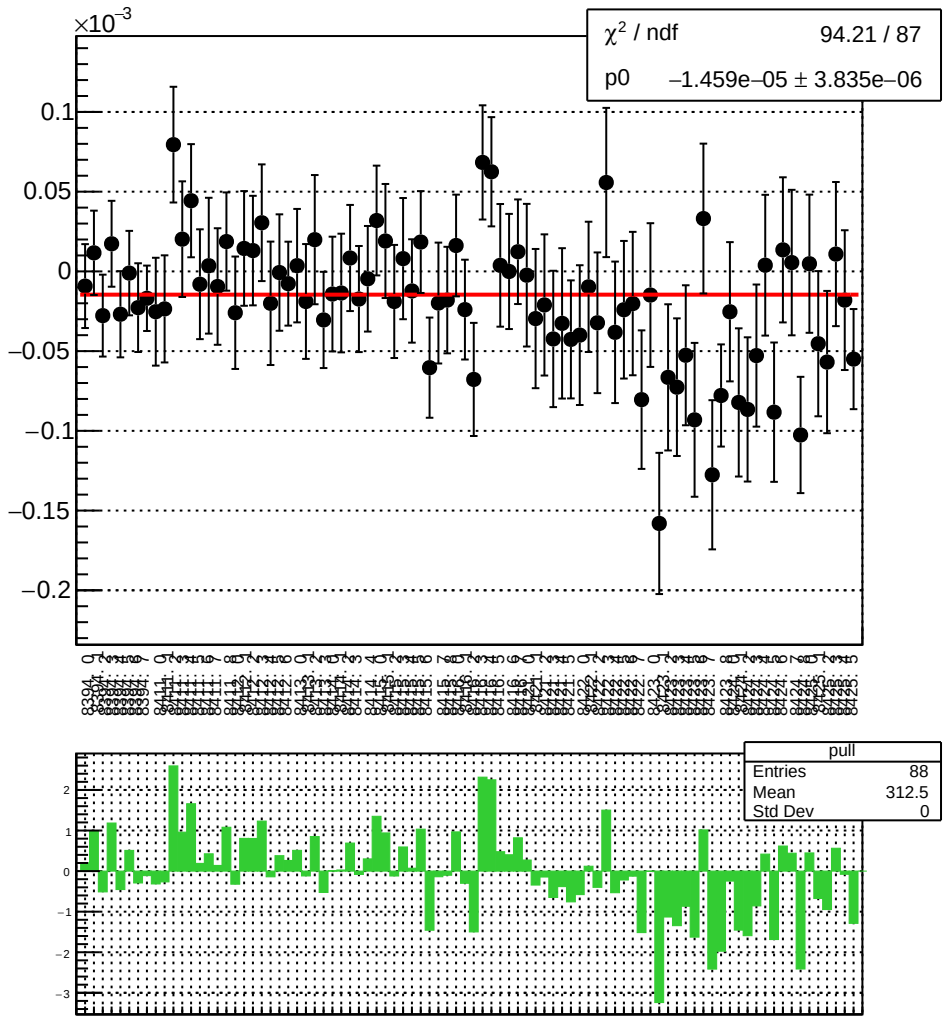

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 99.23 / 87
p0 0.181 ± 0.02709
pull
Entries 88
Mean 221.7
Std Dev 0

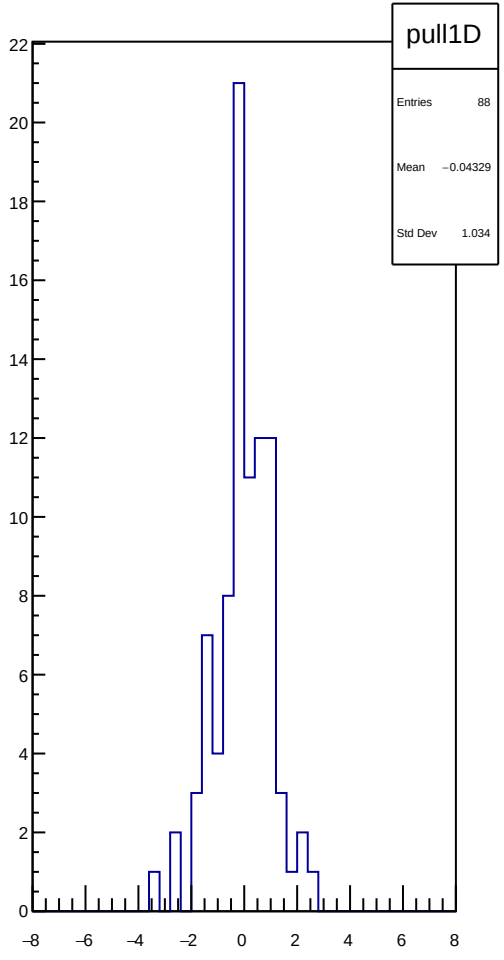

pull1D
Entries 88
Mean 0.02377
Std Dev 1.062

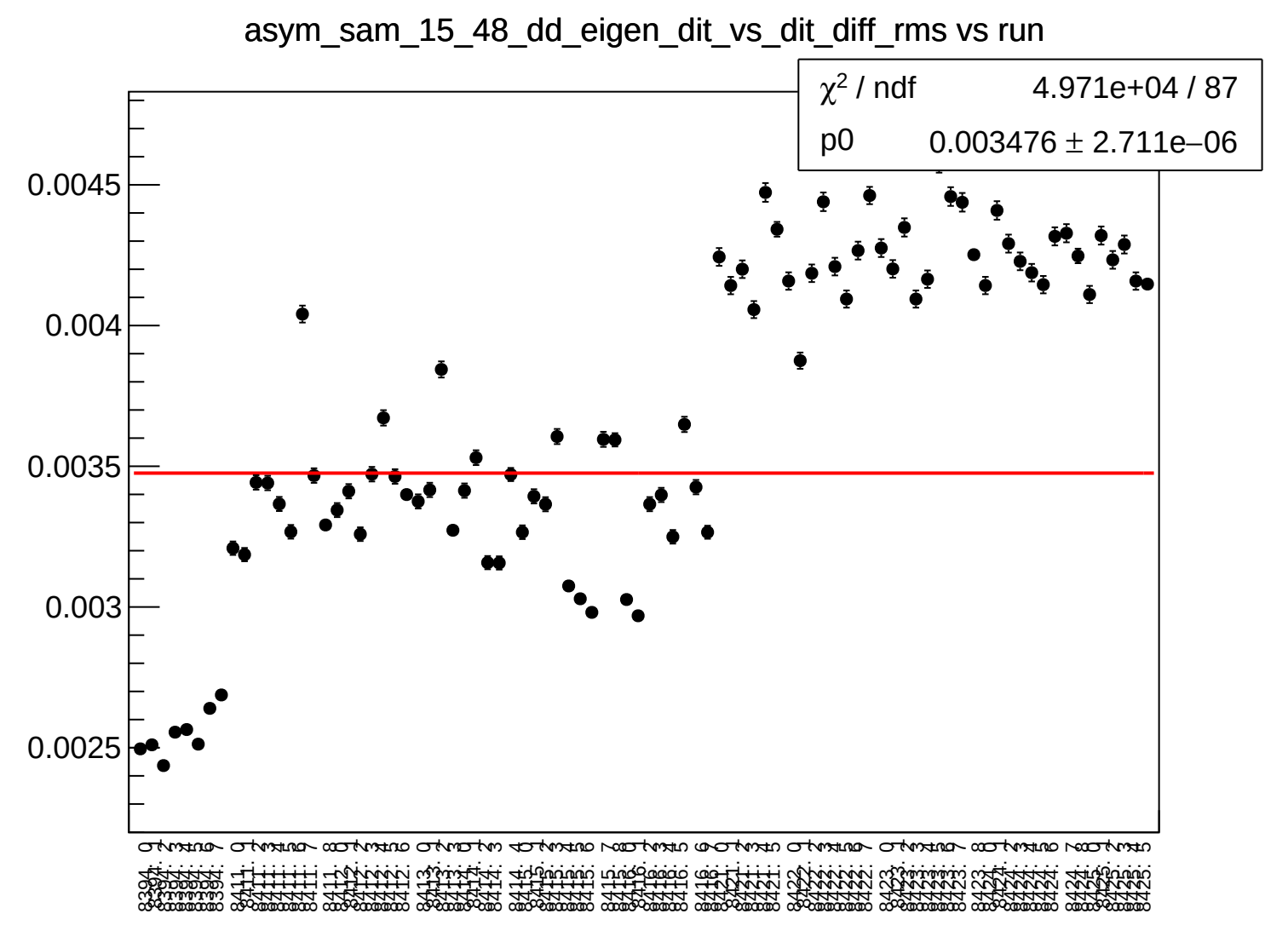

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.95e+04 / 87
p0 24.63 ± 0.01915
45
40
35
30
25
20

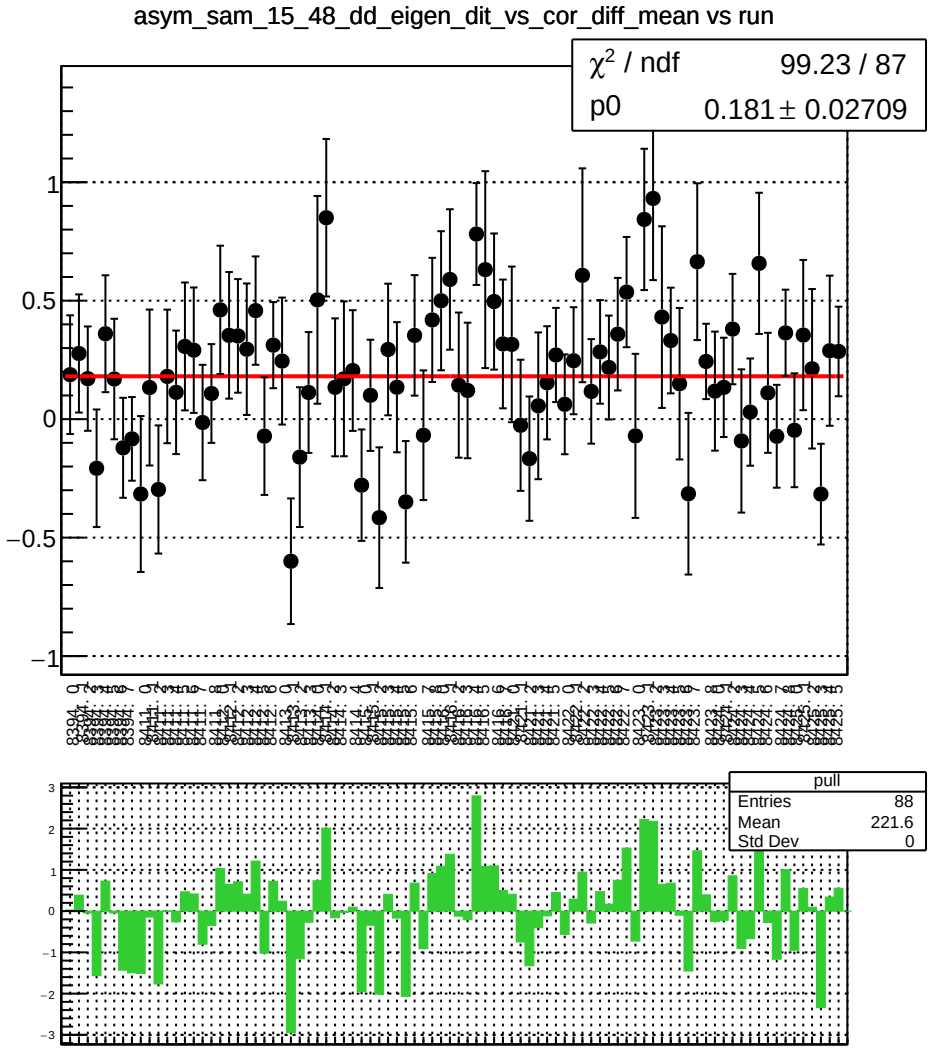

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.23 / 87
p0 0.181 ± 0.02709
pull
Entries 88
Mean 221.7
Std Dev 0
pull1D
Entries 88
Mean 0.02377
Std Dev 1.062

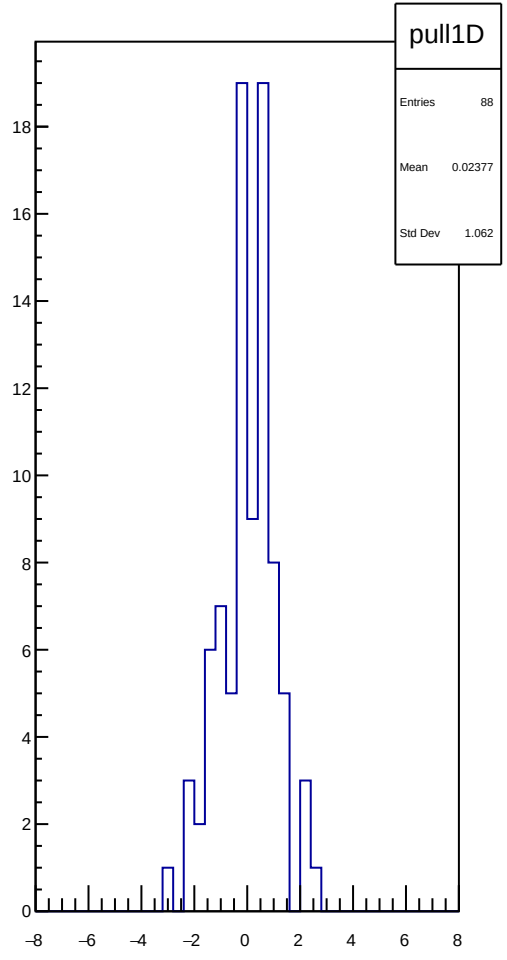

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.95e+04 / 87
p0 24.63 ± 0.01915
45
40
35
30
25
20

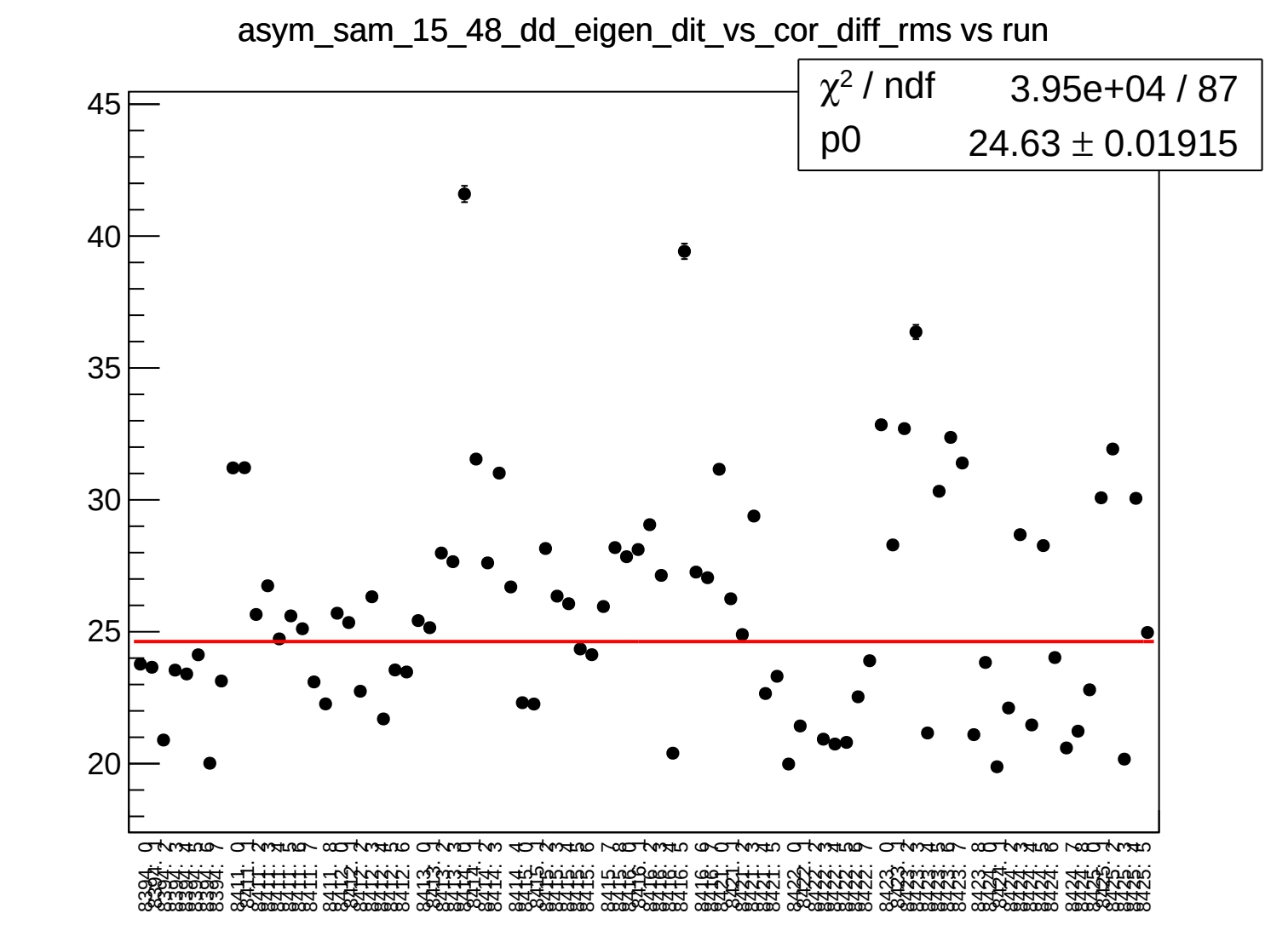

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.21 / 87
p0 −1.459e−05 ± 3.835e−06
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 88
Mean 312.5
Std Dev 0
2
1
0
−1
−2
−3

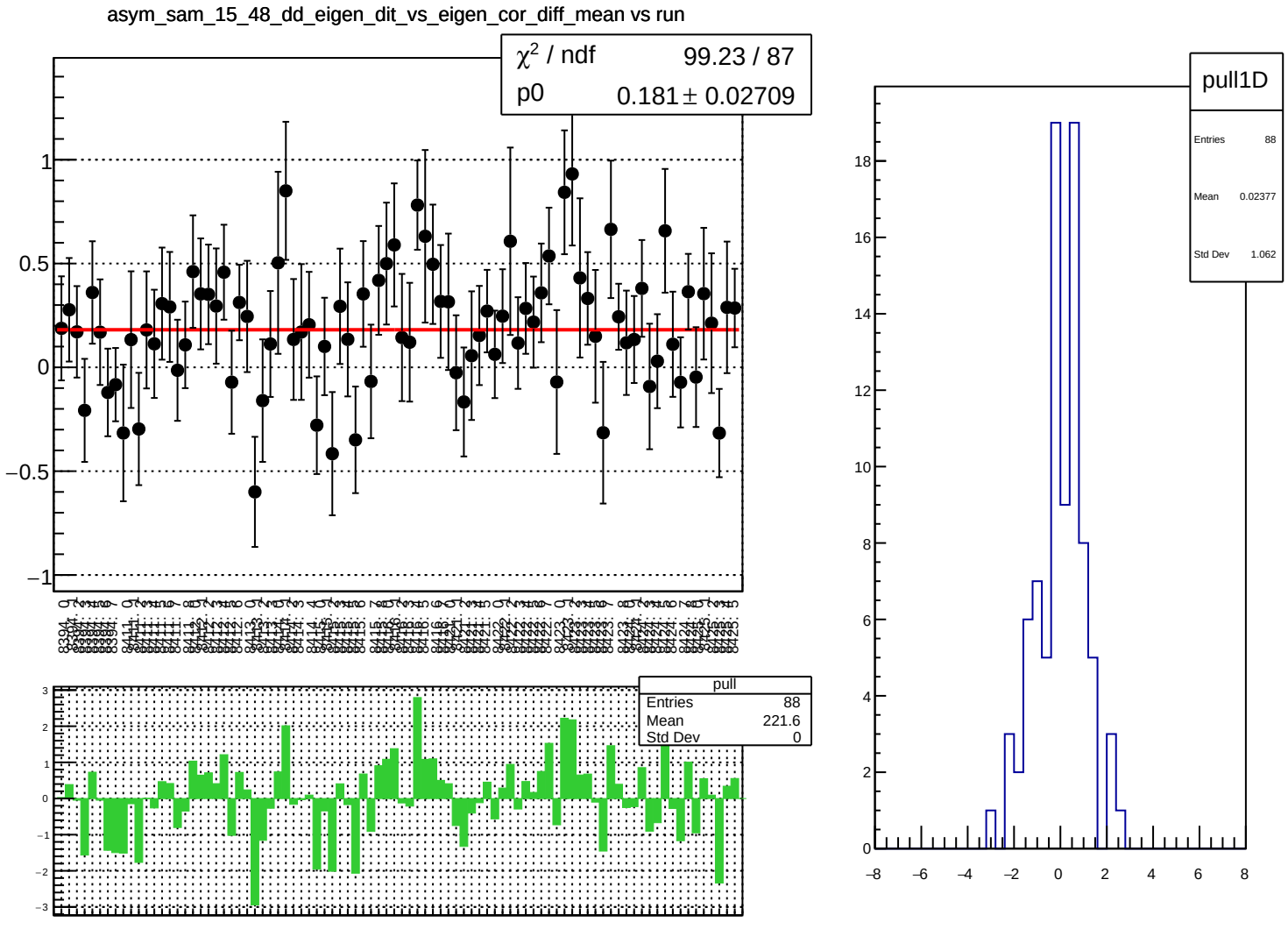

pull1D
Entries 88
Mean −0.04329
Std Dev 1.034
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

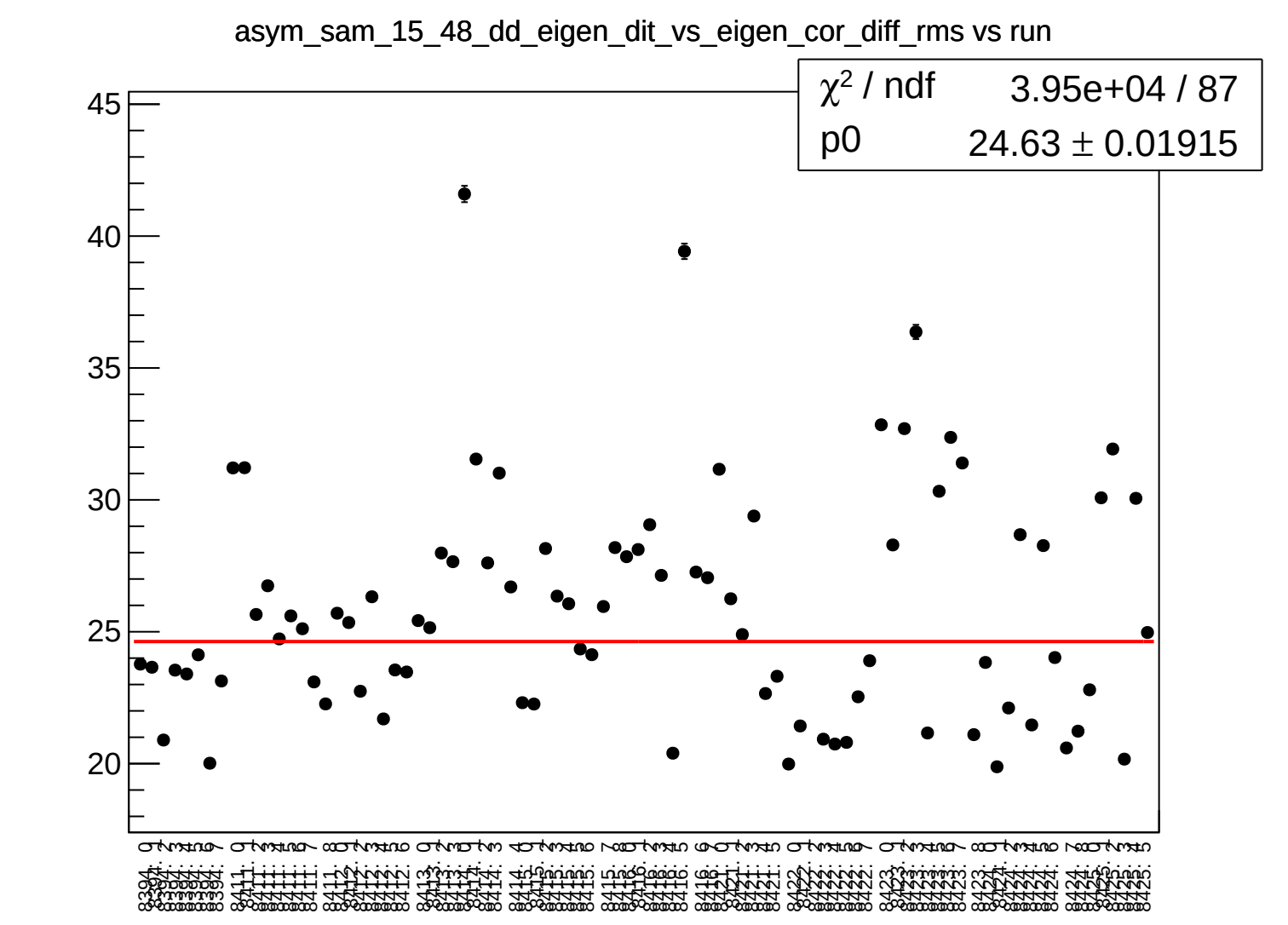

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.971e+04 / 87
p0 0.003476 ± 2.711e−06
0.0045
0.004
0.0035
0.003
0.0025

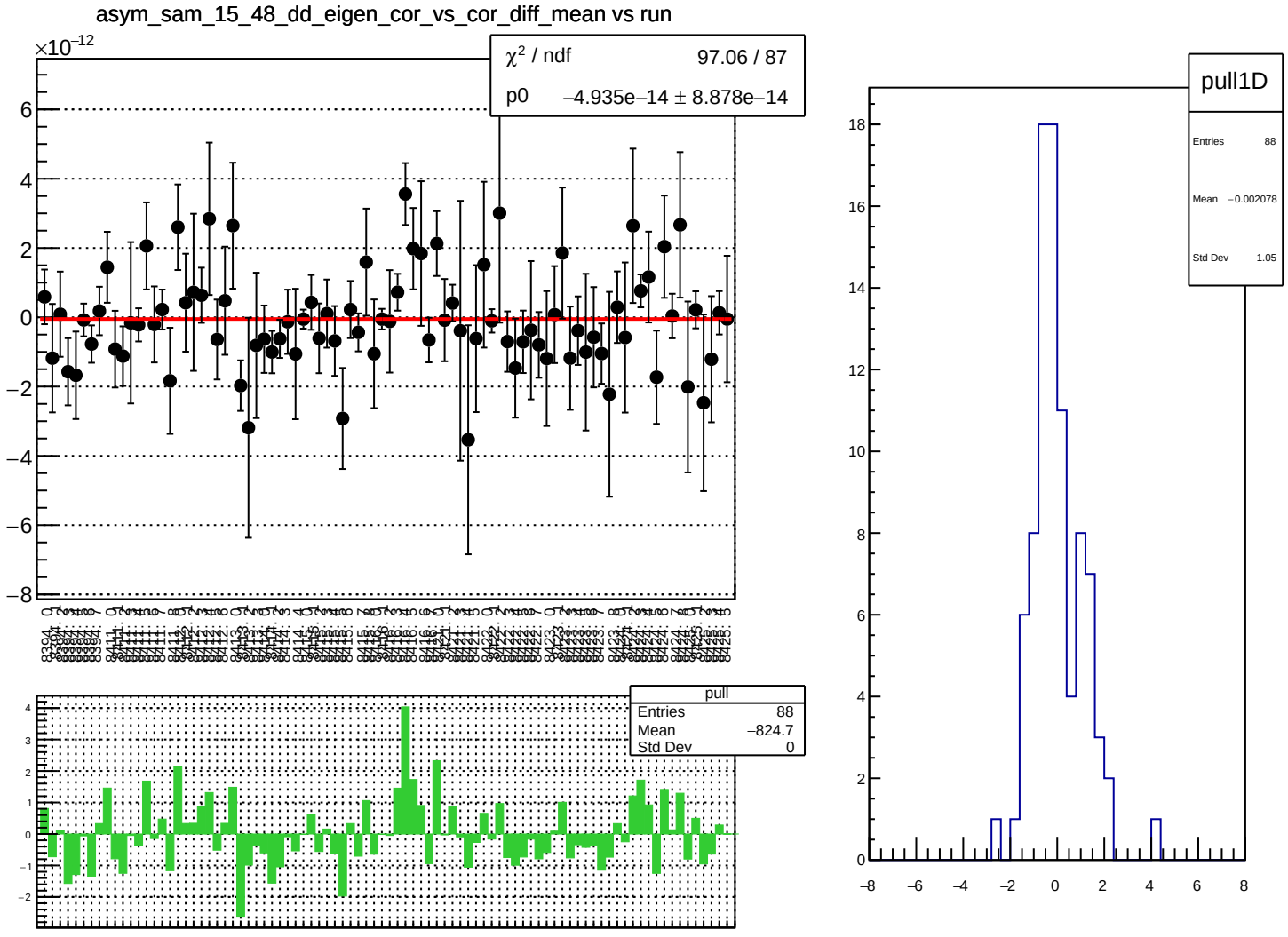

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.23 / 87
p0 0.181 ± 0.02709
pull
Entries 88
Mean 221.6
Std Dev 0

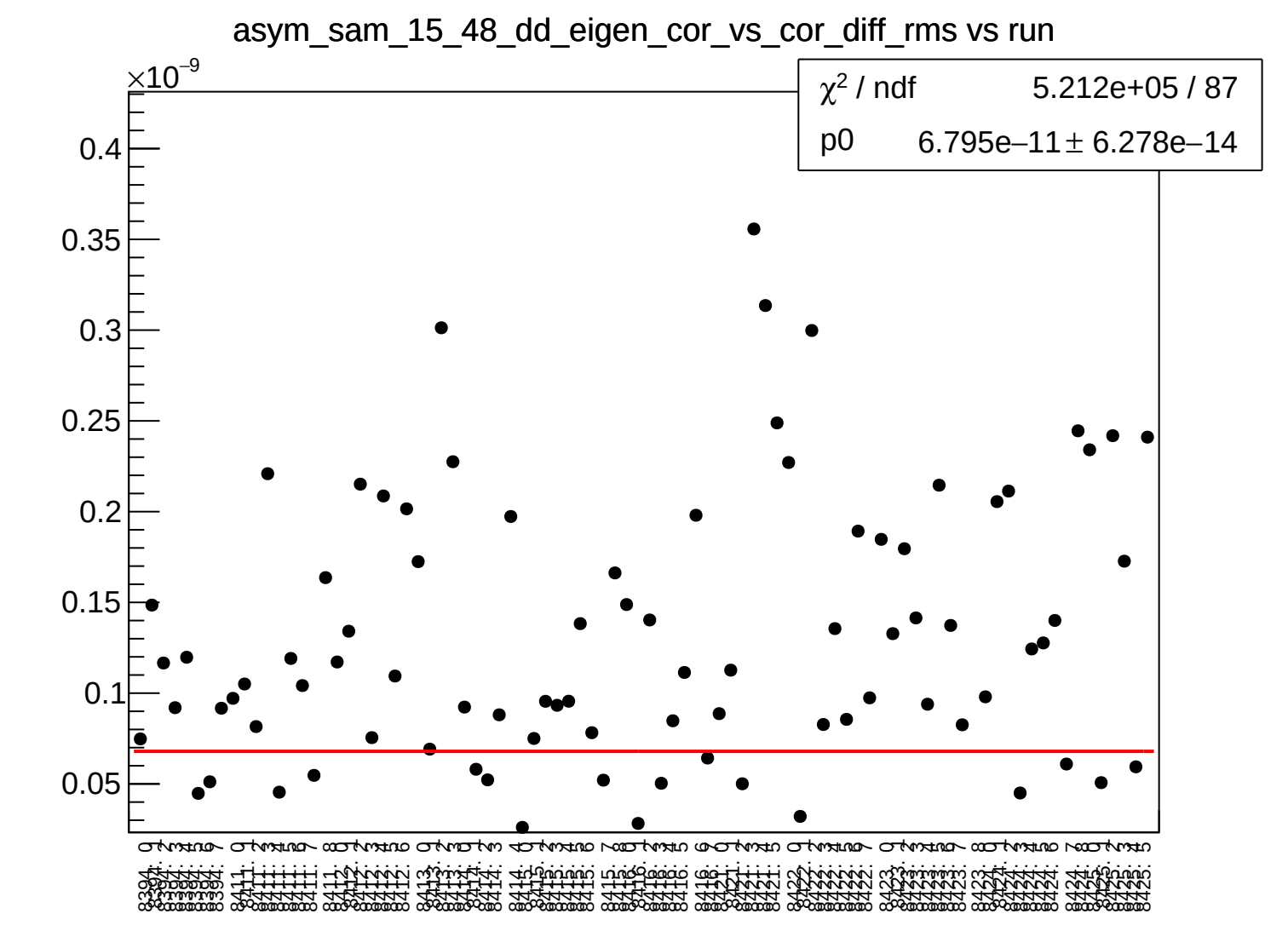

pull1D
Entries 88
Mean 0.02377
Std Dev 1.062

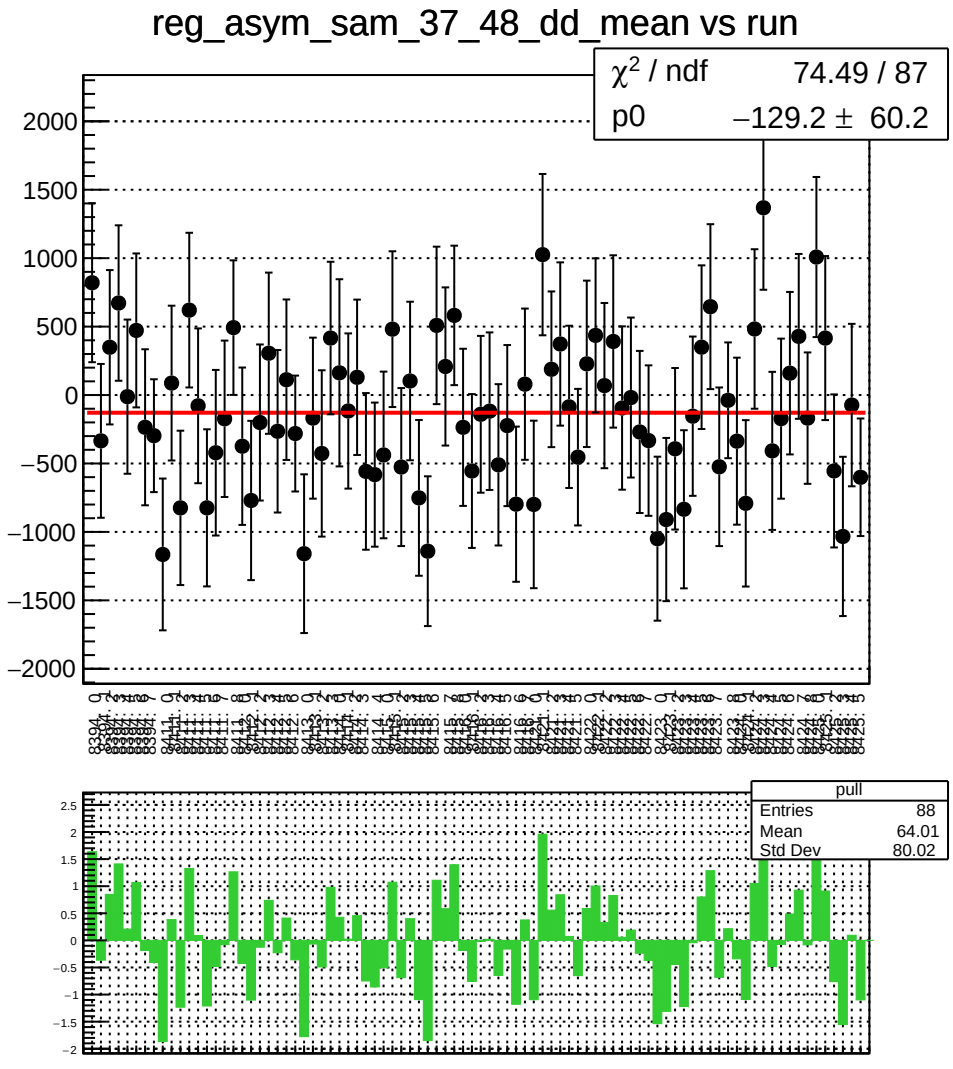

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.95e+04 / 87
p0 24.63 ± 0.01915
45
40
35
30
25
20

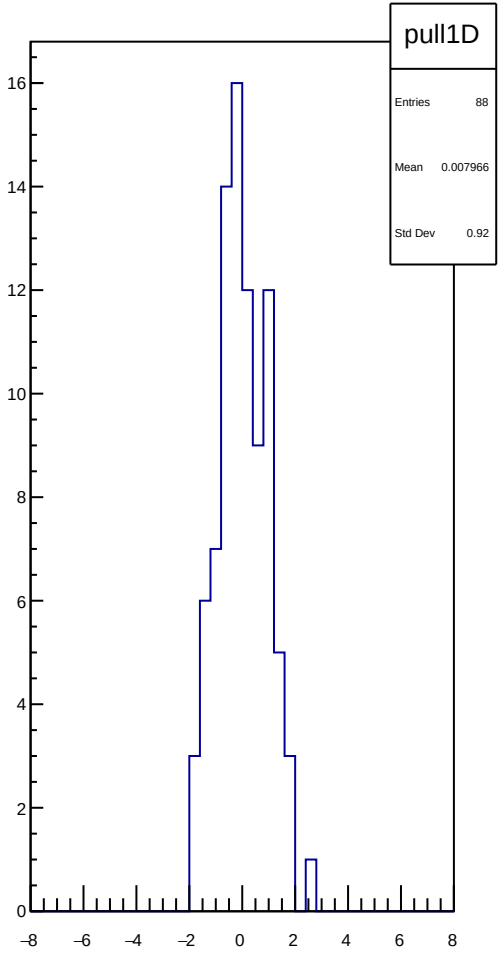

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.23 / 87
p0 0.181 ± 0.02709
pull
Entries 88
Mean 221.6
Std Dev 0
pull1D
Entries 88
Mean 0.02377
Std Dev 1.062

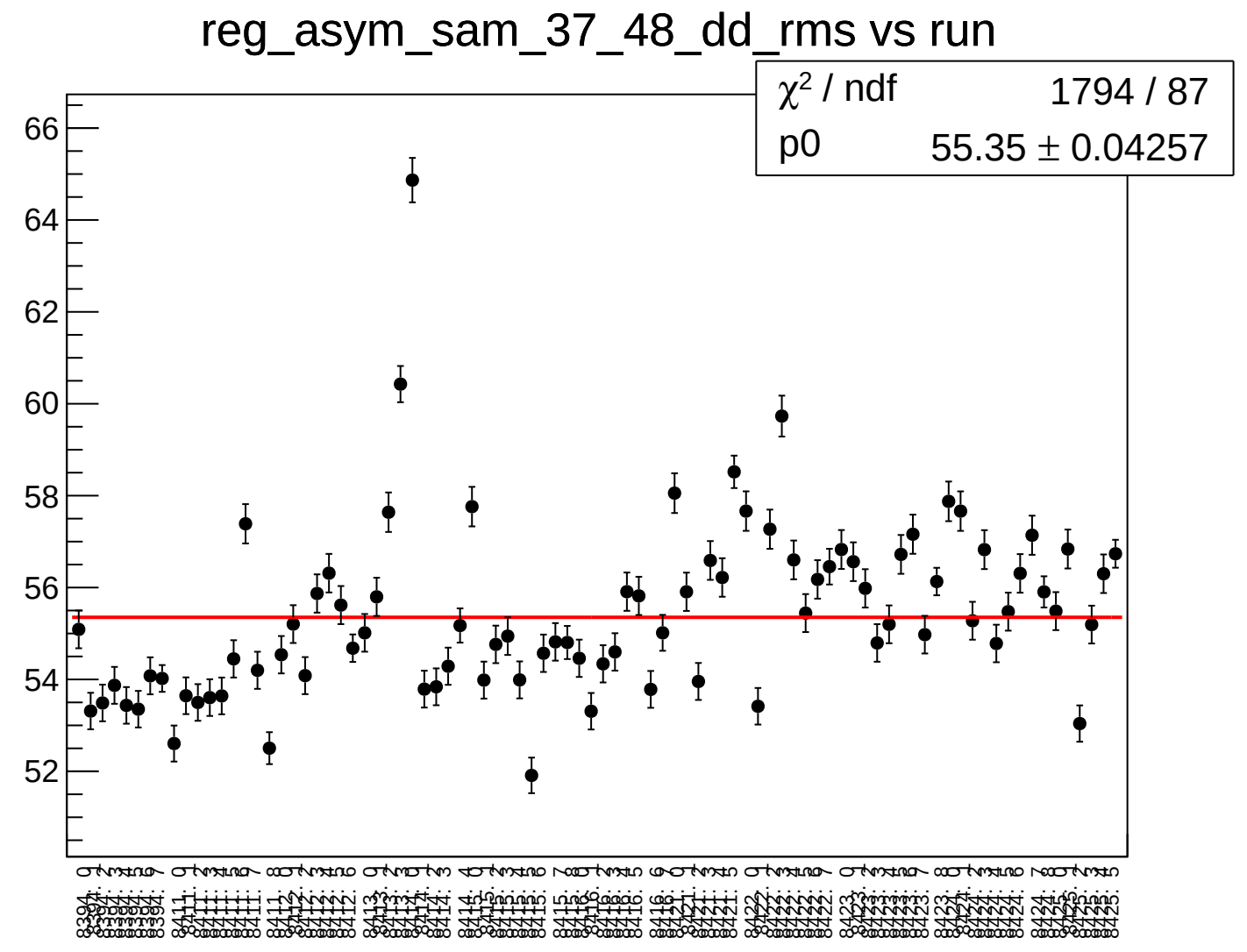

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.95e+04 / 87
p0 24.63 ± 0.01915
45
40
35
30
25
20

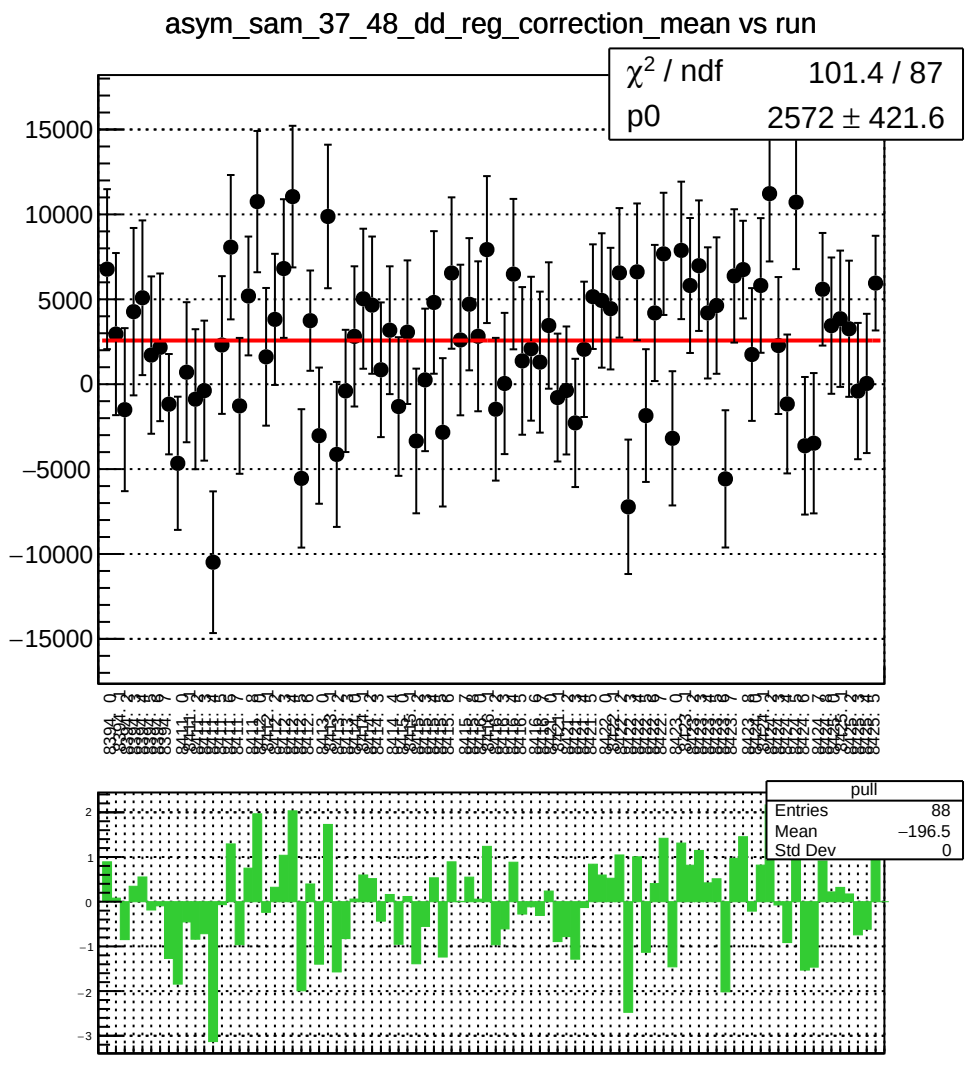

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 97.06 / 87
p0 −4.935e−14 ± 8.878e−14
pull
Entries 88
Mean −824.7
Std Dev 0
pull1D
Entries 88
Mean −0.002078
Std Dev 1.05

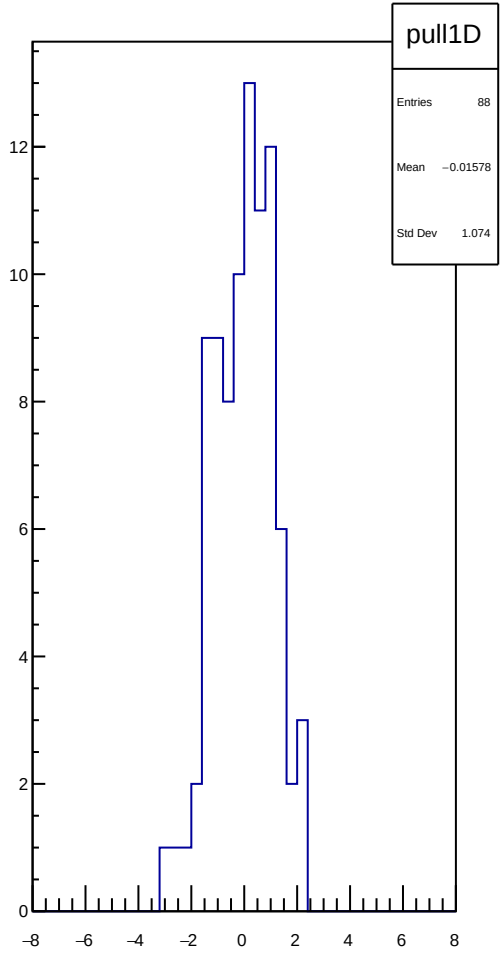

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.212e+05 / 87
p0 6.795e−11 ± 6.278e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

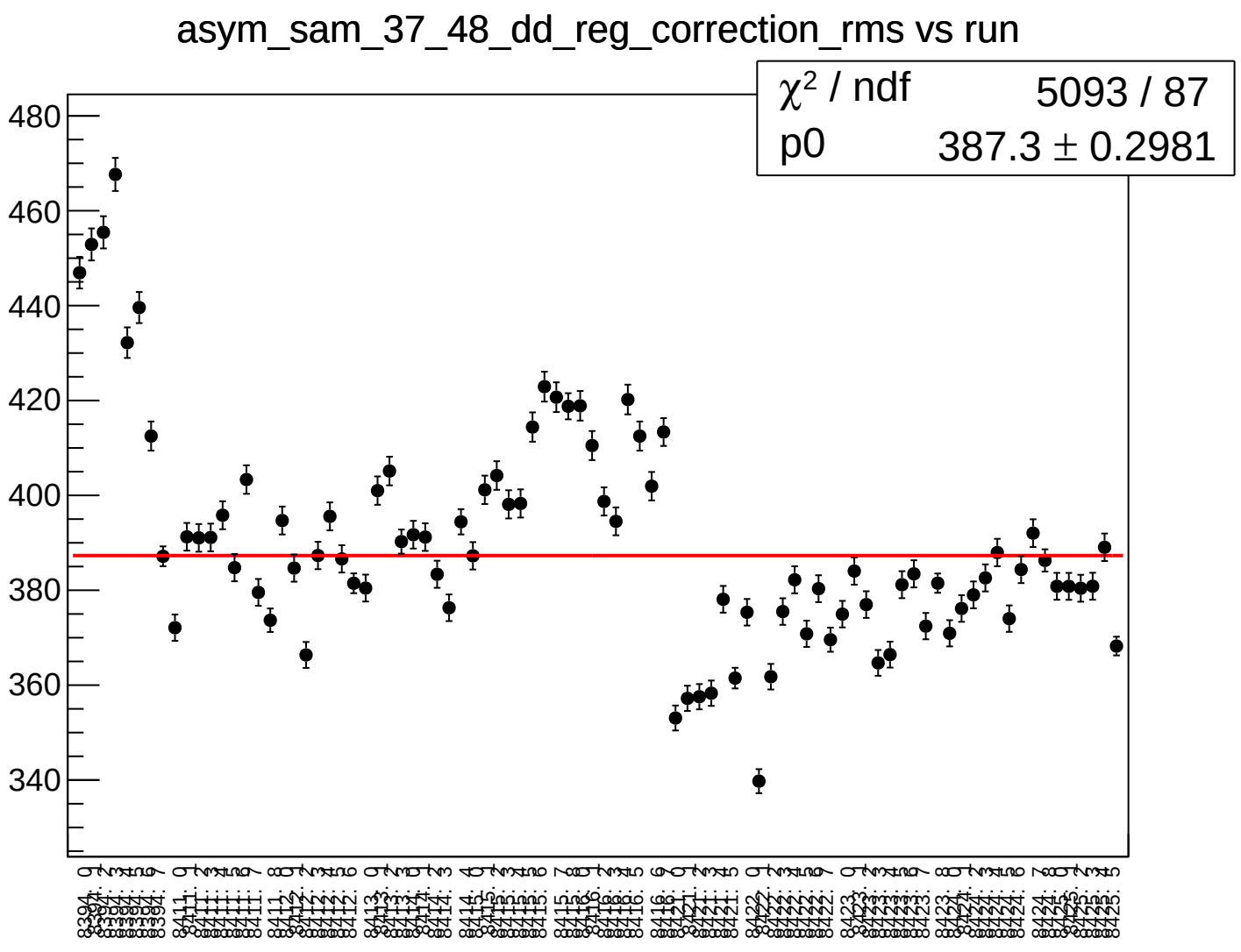

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 74.49 / 87
p0 −129.2 ± 60.2
pull
Entries 88
Mean 64.01
Std Dev 80.02

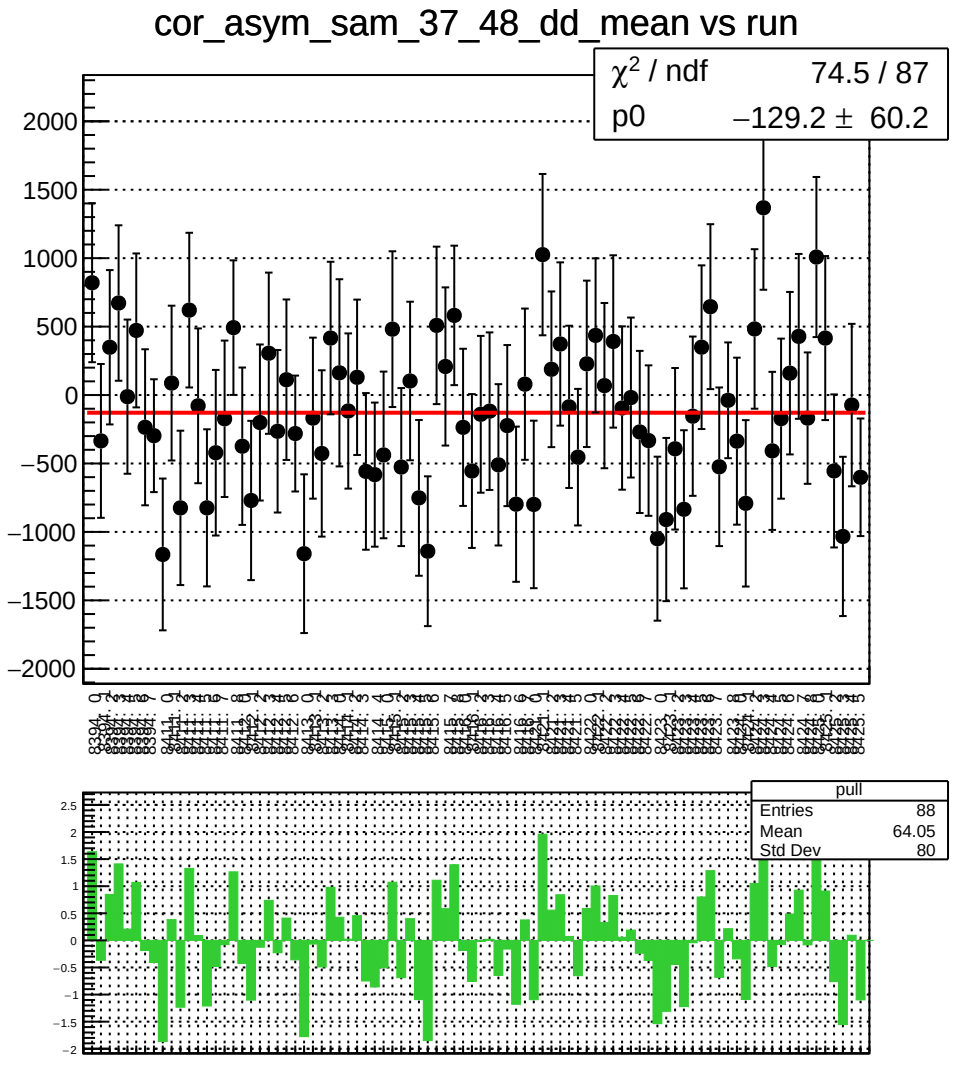

pull1D
Entries 88
Mean 0.007966
Std Dev 0.92

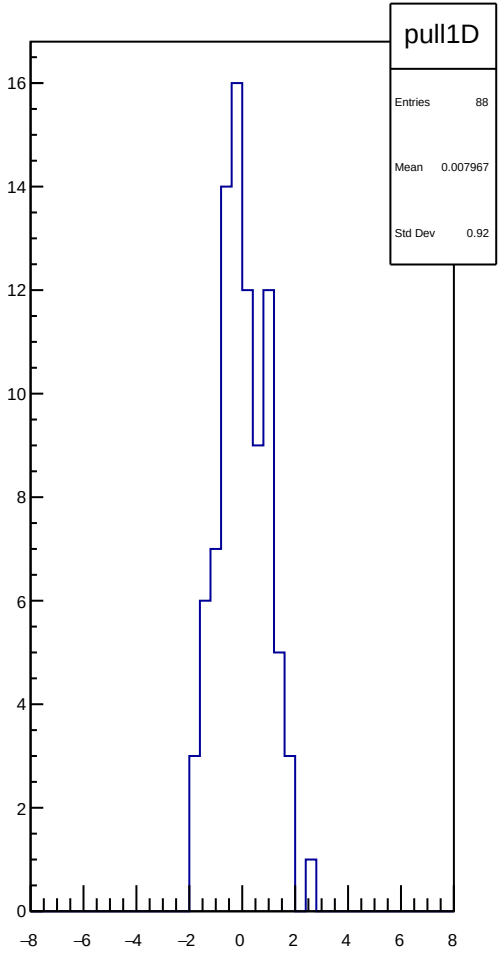

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 1794 / 87
p0 55.35 ± 0.04257
66
64
62
60
58
56
54
52

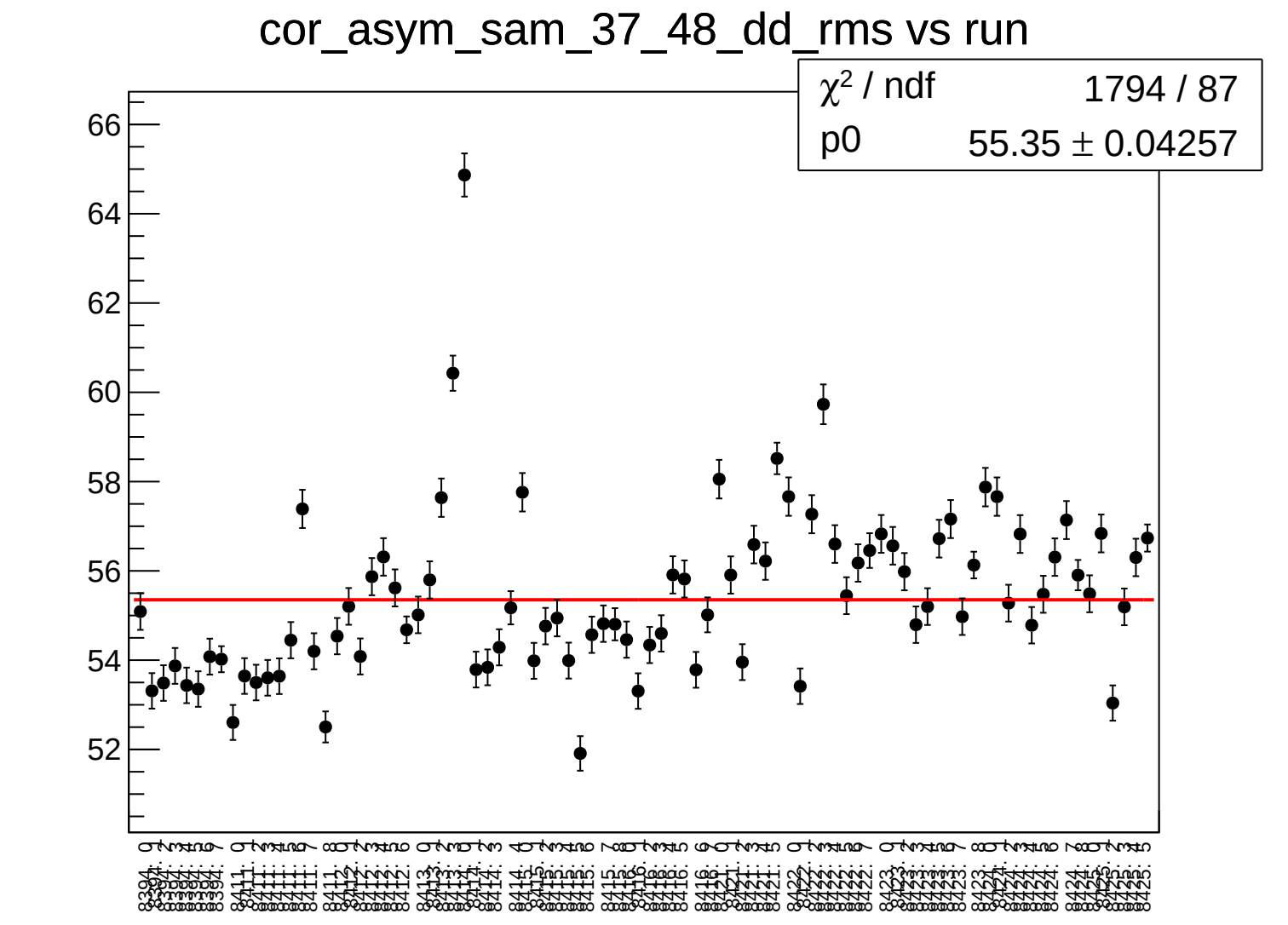

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 101.4 / 87
p0 2572 ± 421.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −196.5
Std Dev 0
2
1
0
−1
−2
−3

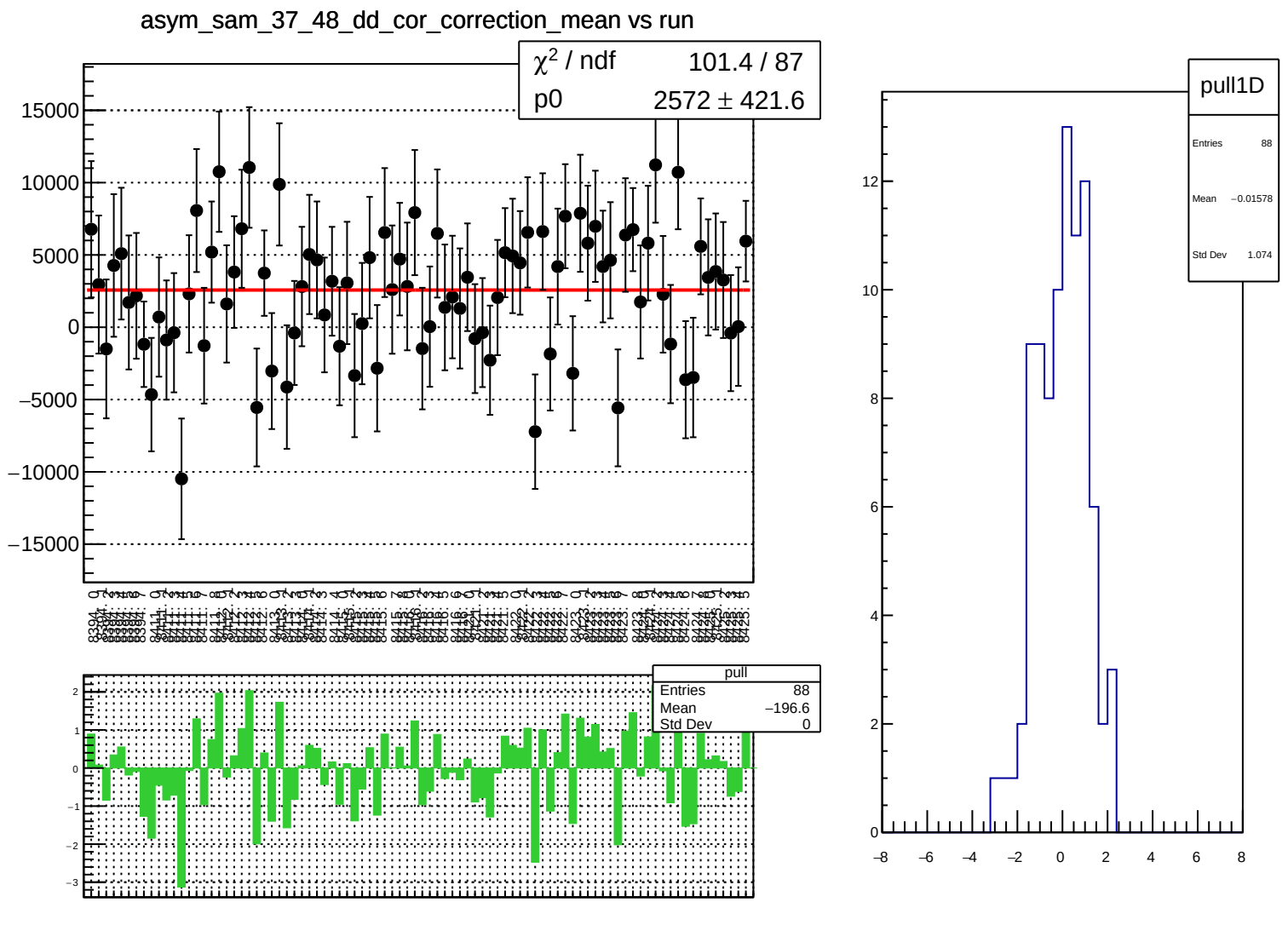

pull1D
Entries 88
Mean −0.01578
Std Dev 1.074
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

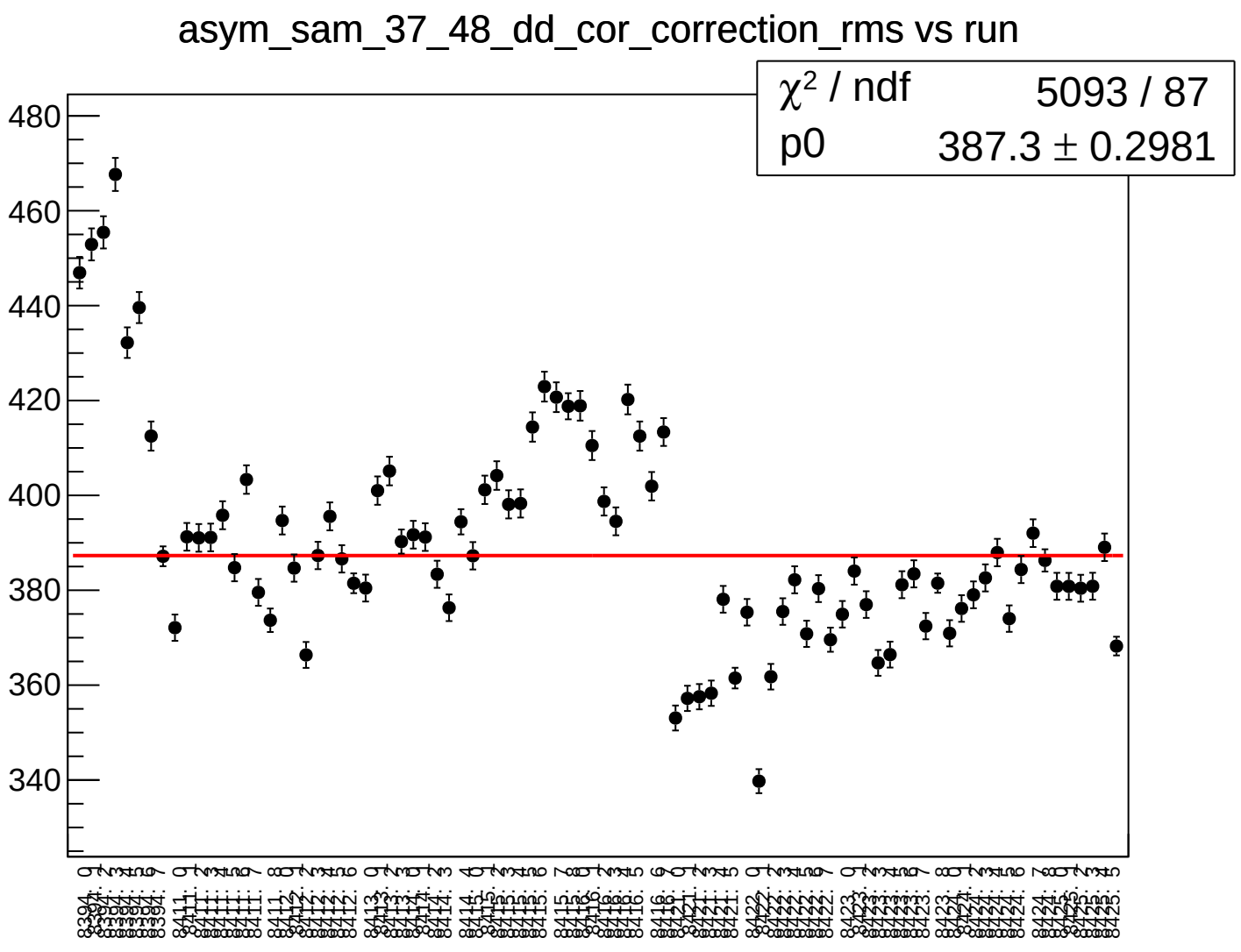

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 5093 / 87
p0 387.3 ± 0.2981
480
460
440
420
400
380
360
340

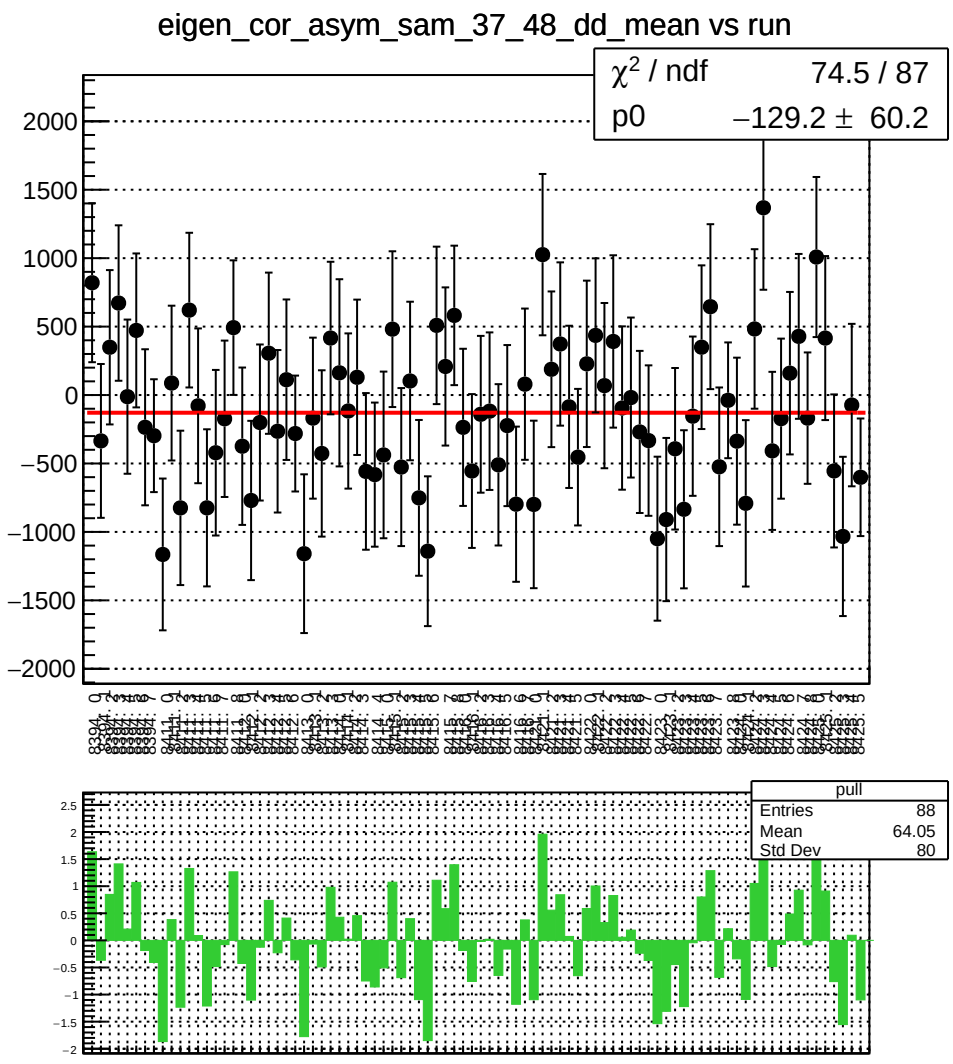

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 74.5 / 87
p0 −129.2 ± 60.2
pull
Entries 88
Mean 64.05
Std Dev 80

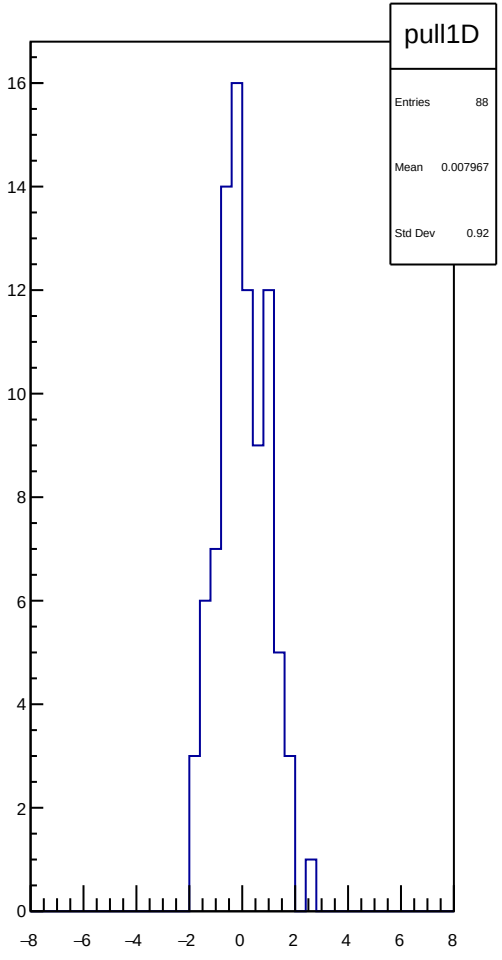

pull1D
Entries 88
Mean 0.007967
Std Dev 0.92

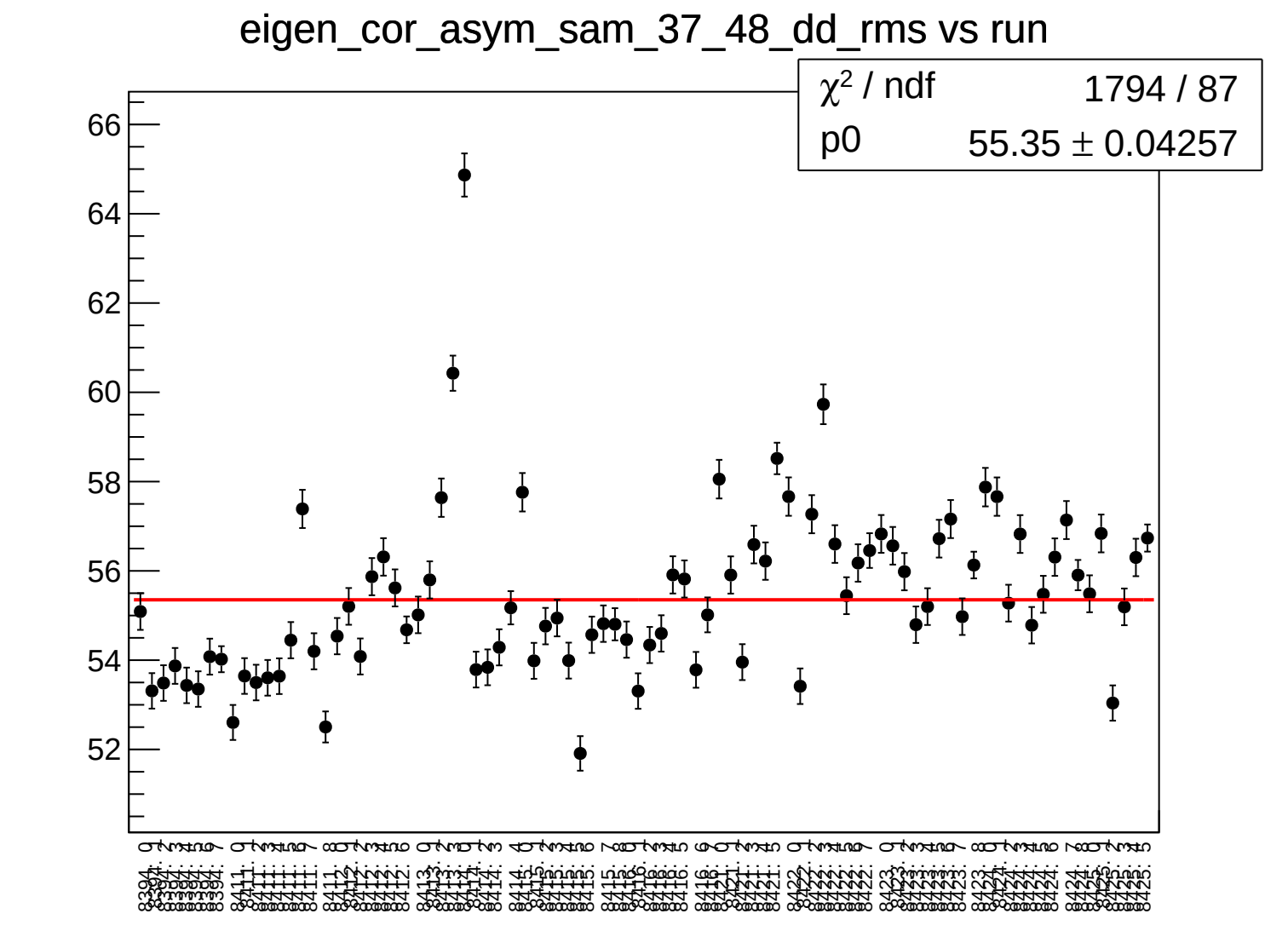

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 1794 / 87
p0 55.35 ± 0.04257
66
64
62
60
58
56
54
52

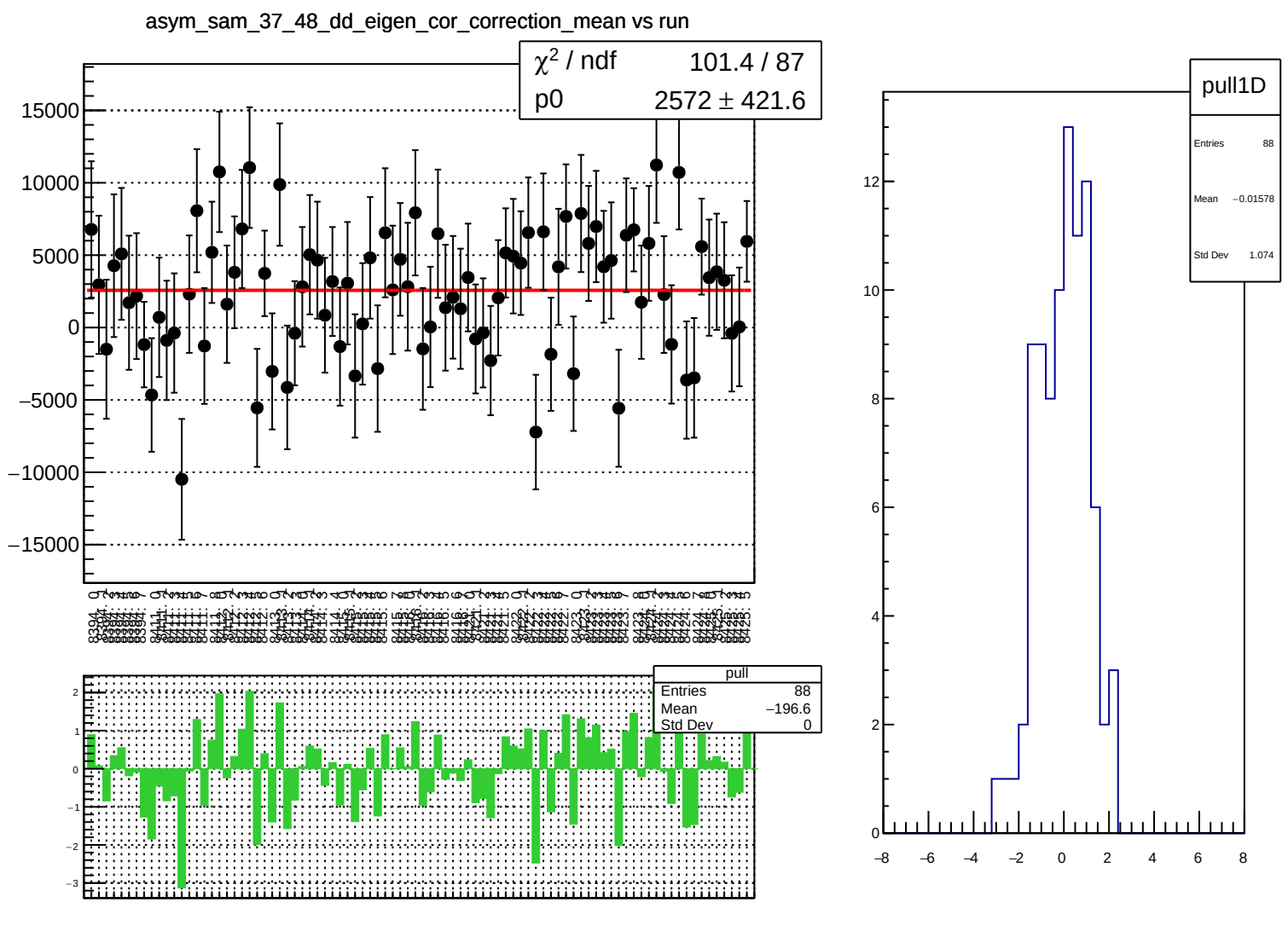

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 101.4 / 87
p0 2572 ± 421.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −196.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.01578
Std Dev 1.074
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

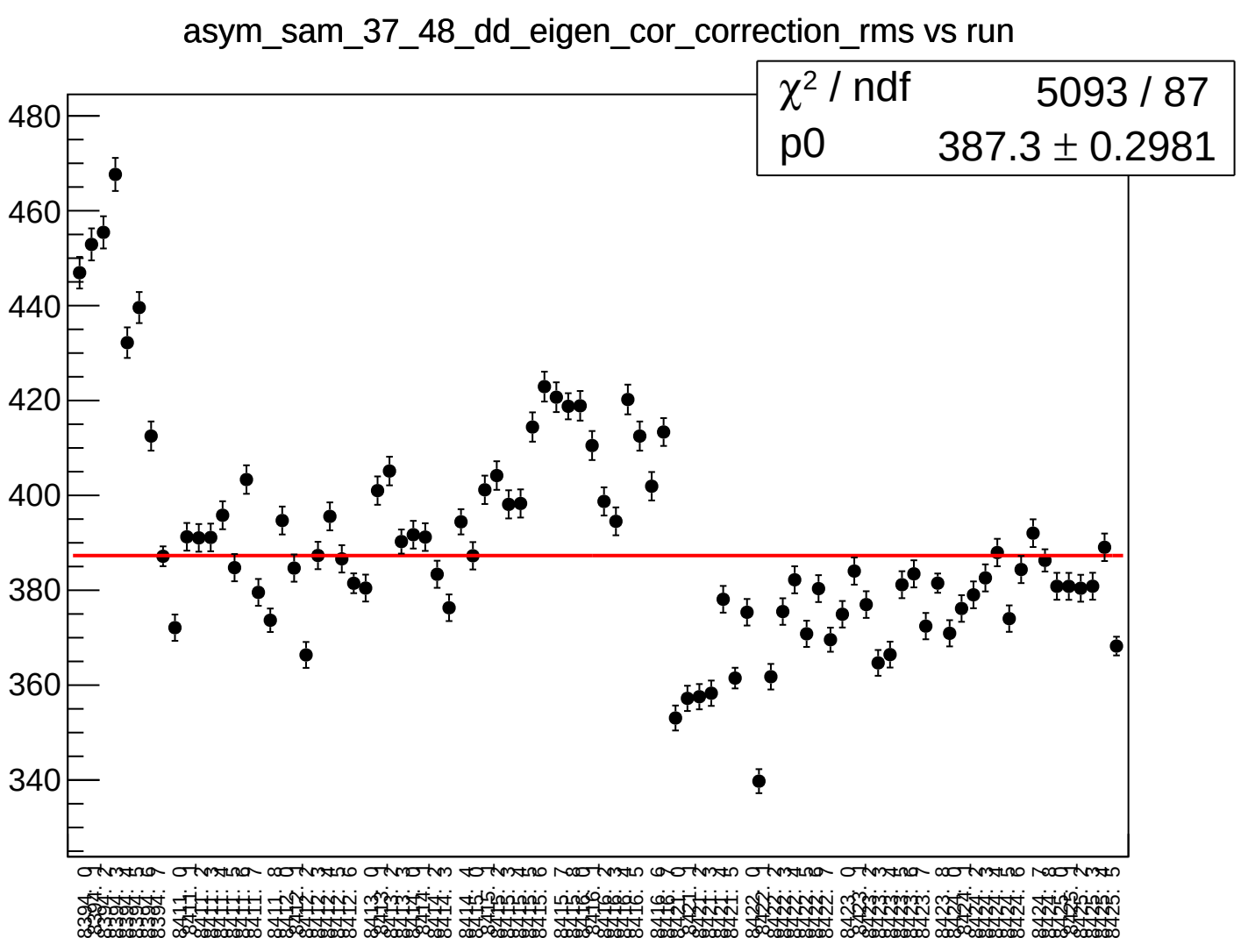

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 5093 / 87
p0 387.3 ± 0.2981
480
460
440
420
400
380
360
340

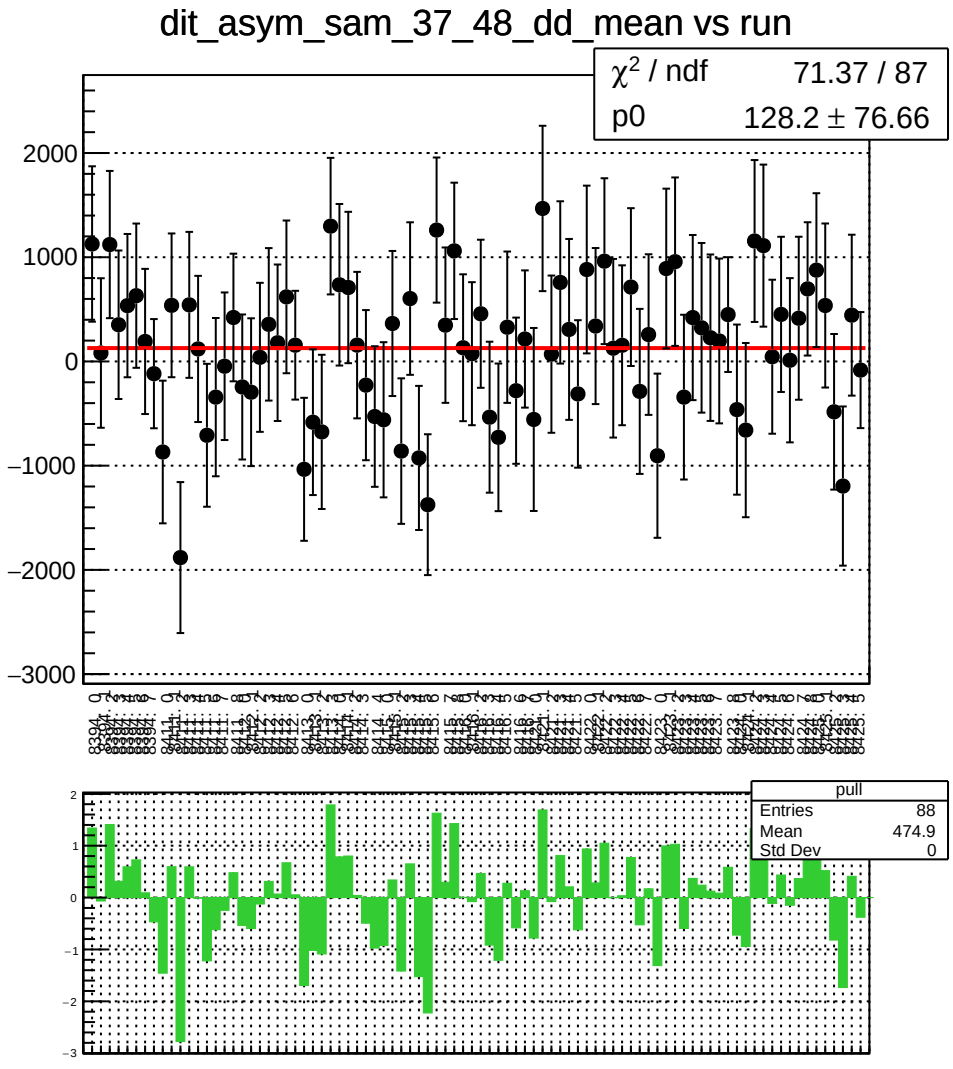

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 74.5 / 87
p0 −129.2 ± 60.2
pull
Entries 88
Mean 64.05
Std Dev 80

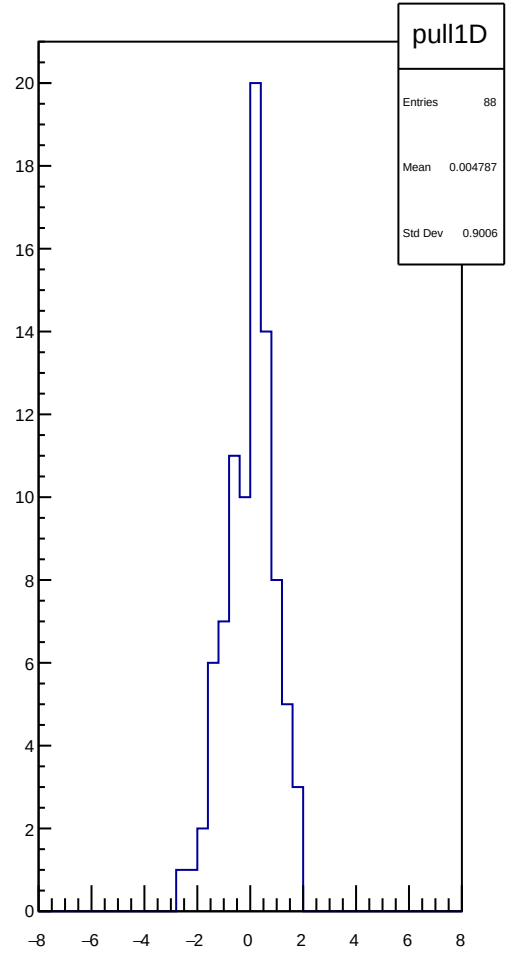

pull1D
Entries 88
Mean 0.007967
Std Dev 0.92

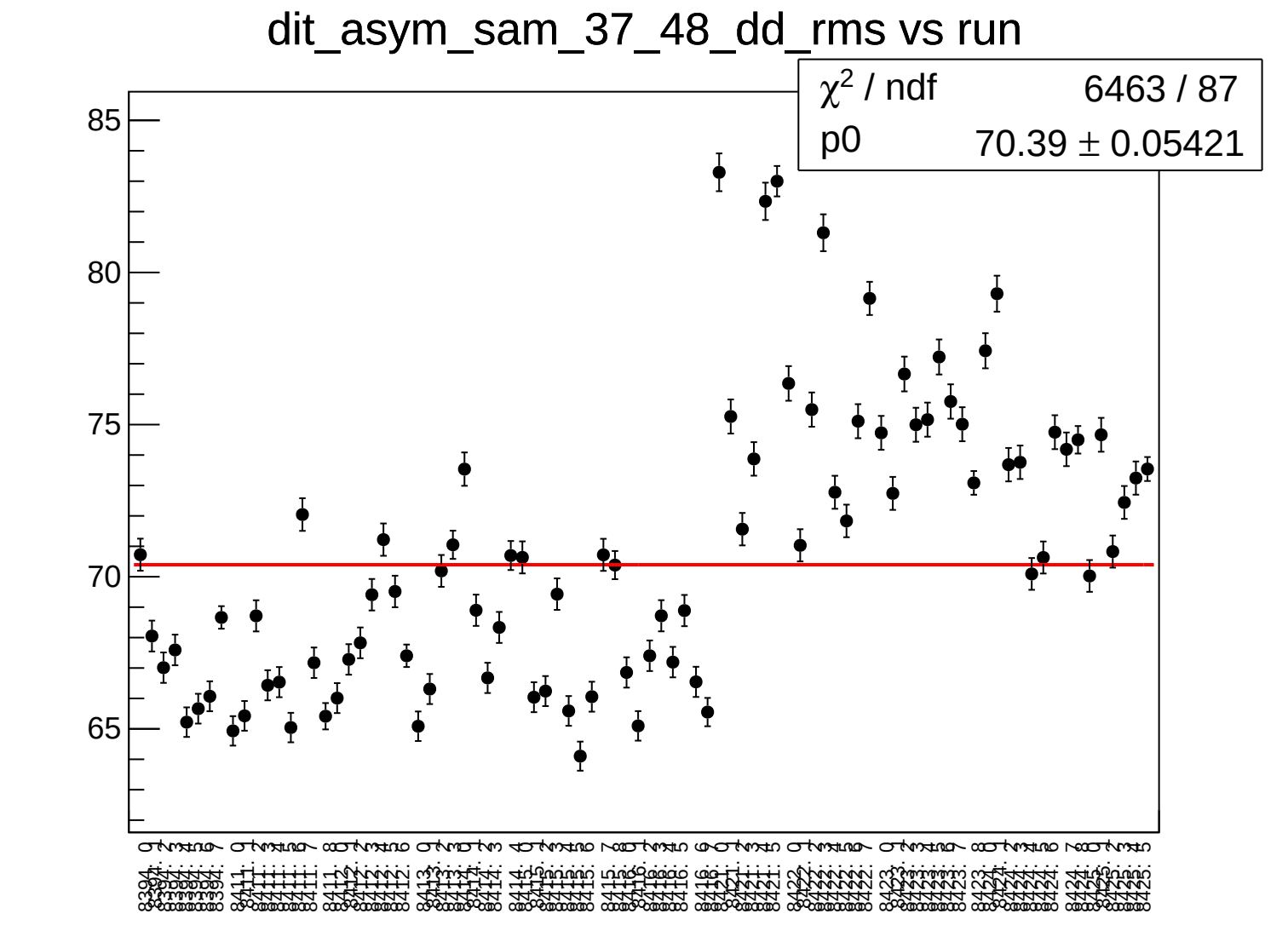

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 1794 / 87
p0 55.35 ± 0.04257
66
64
62
60
58
56
54
52

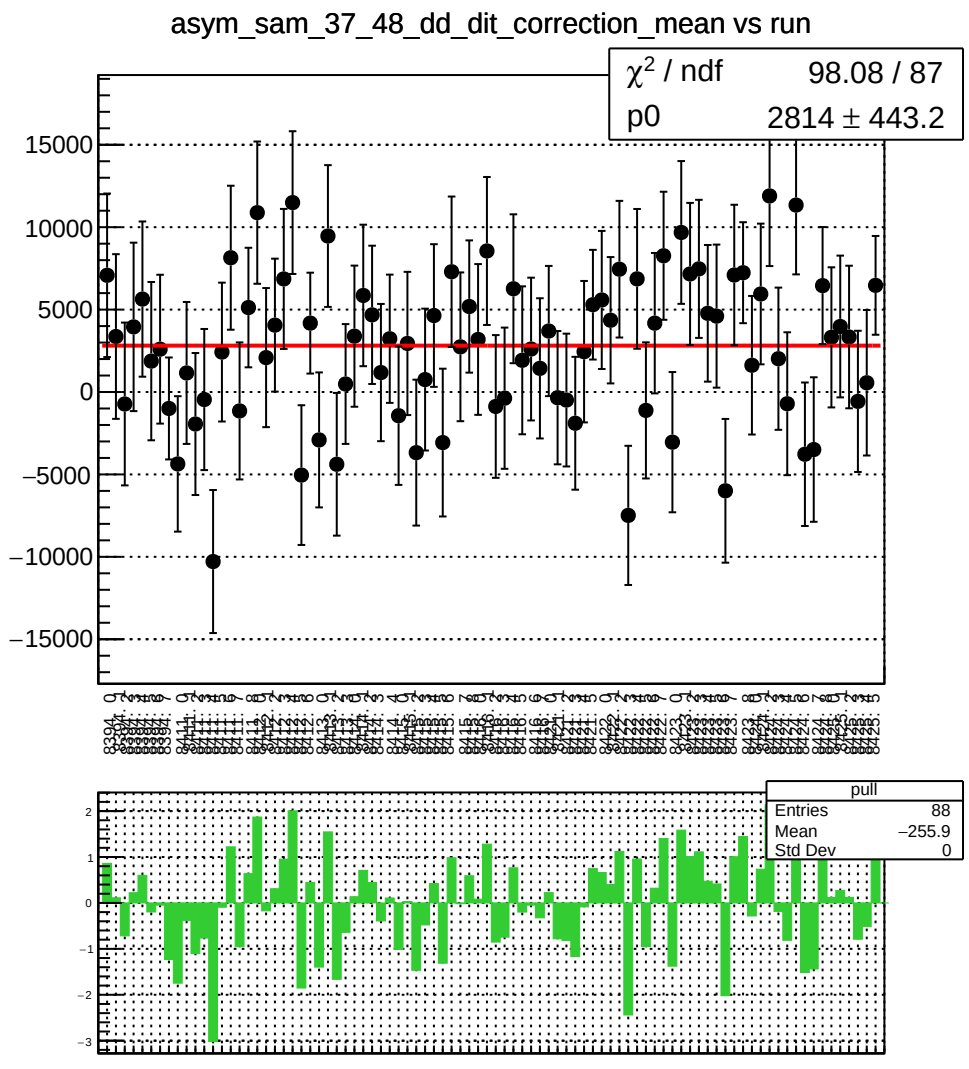

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 101.4 / 87
p0 2572 ± 421.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −196.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.01578
Std Dev 1.074
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

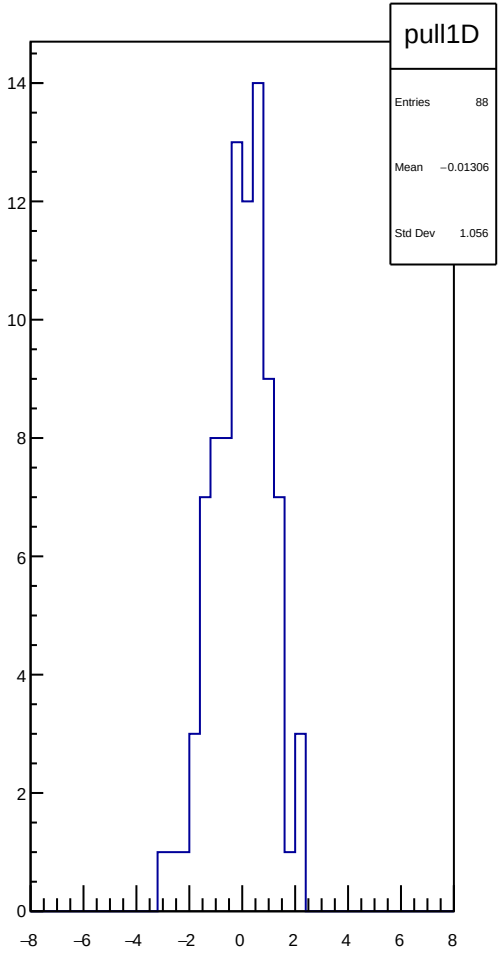

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 5093 / 87
p0 387.3 ± 0.2981
480
460
440
420
400
380
360
340

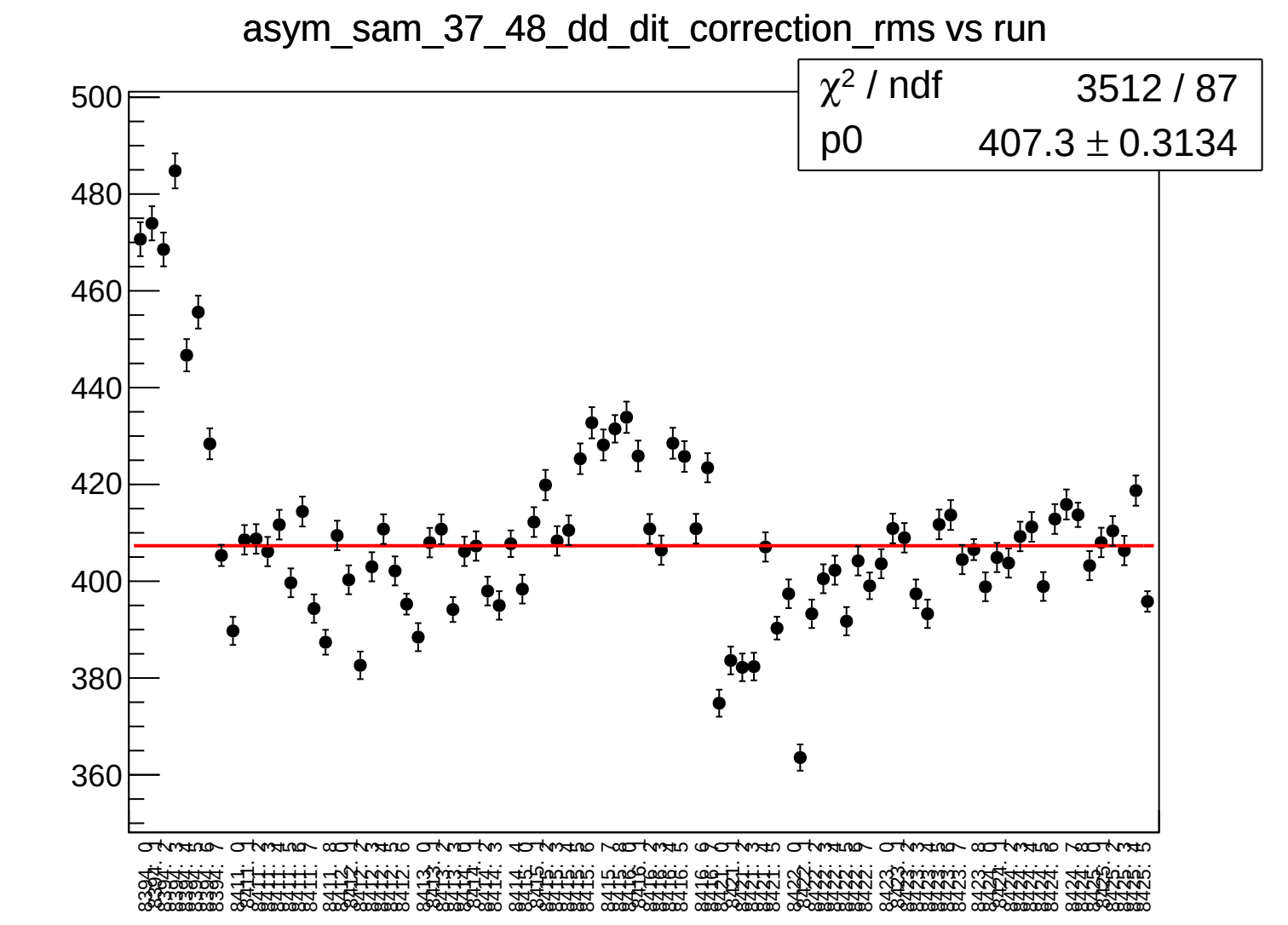

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 71.37 / 87
p0 128.2 ± 76.66
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 474.9
Std Dev 0
2
1
0
−1
−2
−3

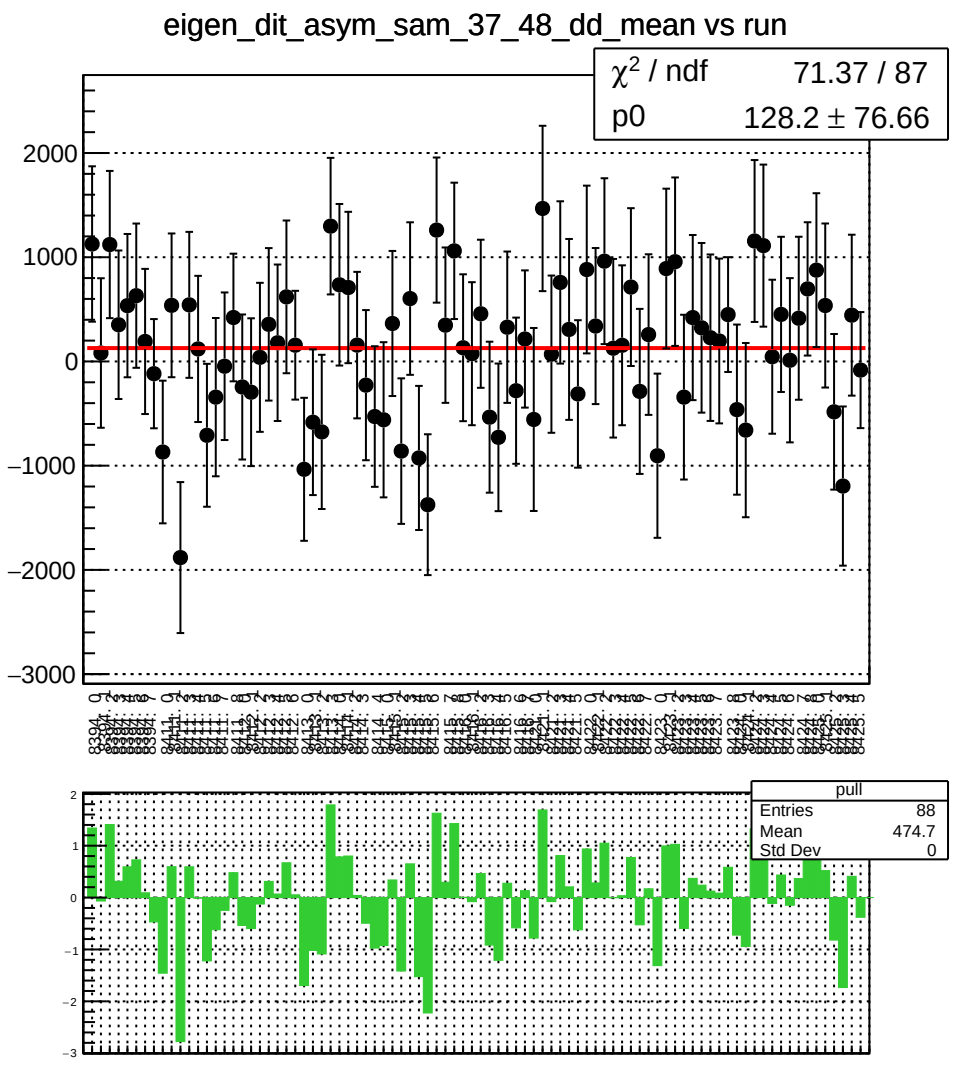

pull1D
Entries 88
Mean 0.004787
Std Dev 0.9006
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

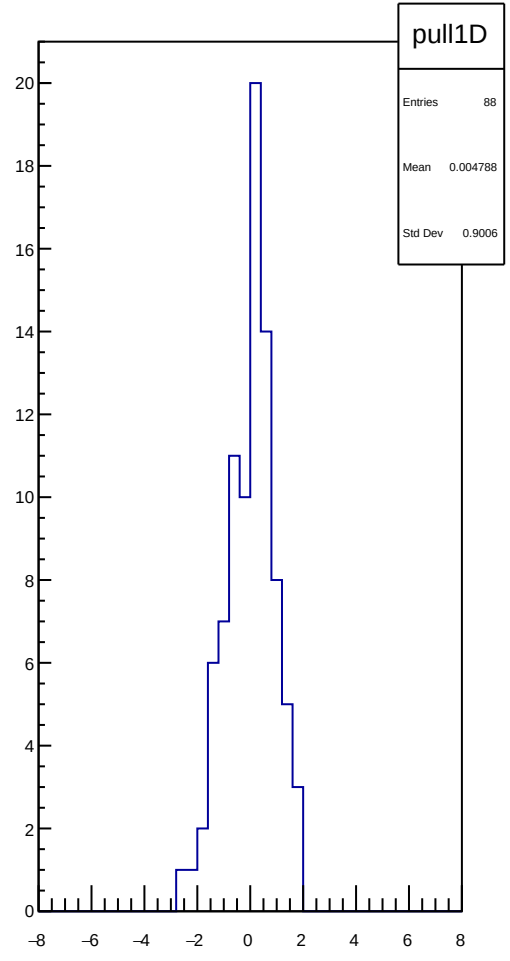

dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 6463 / 87
p0 70.39 ± 0.05421
85
80
75
70
65

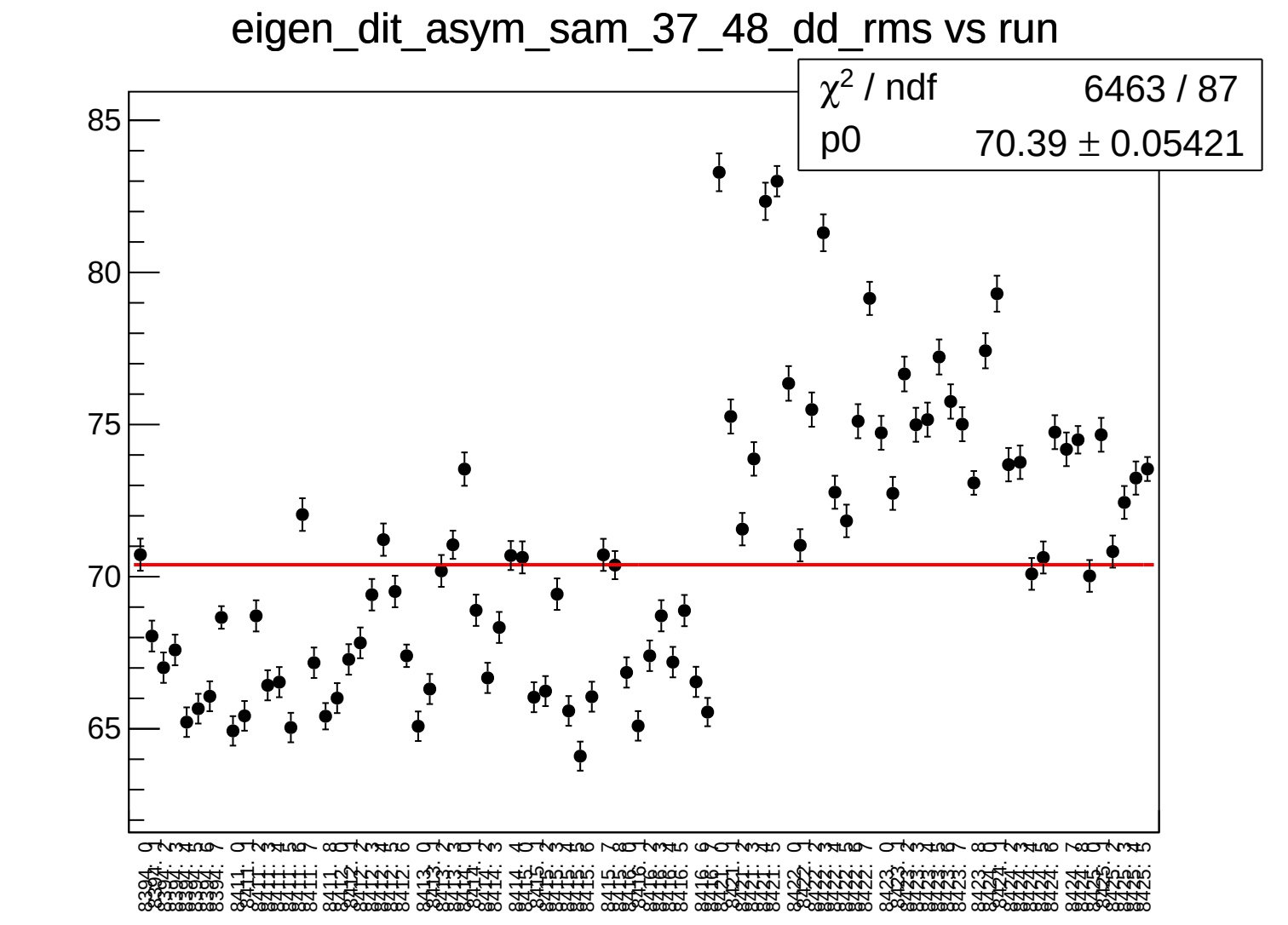

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 98.08 / 87
p0 2814 ± 443.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −255.9
Std Dev 0
2
1
0
−1
−2
−3

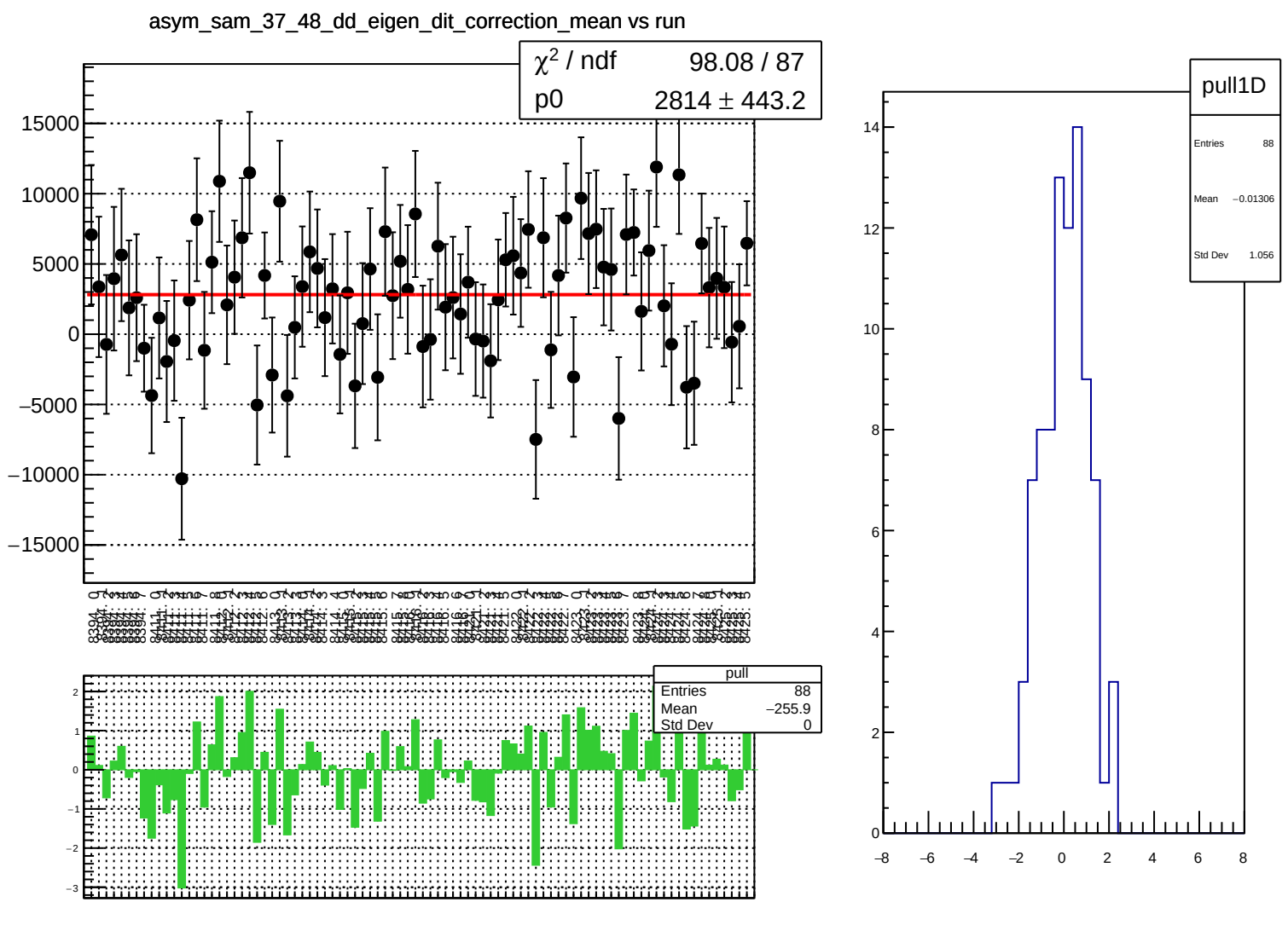

pull1D
Entries 88
Mean −0.01306
Std Dev 1.056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

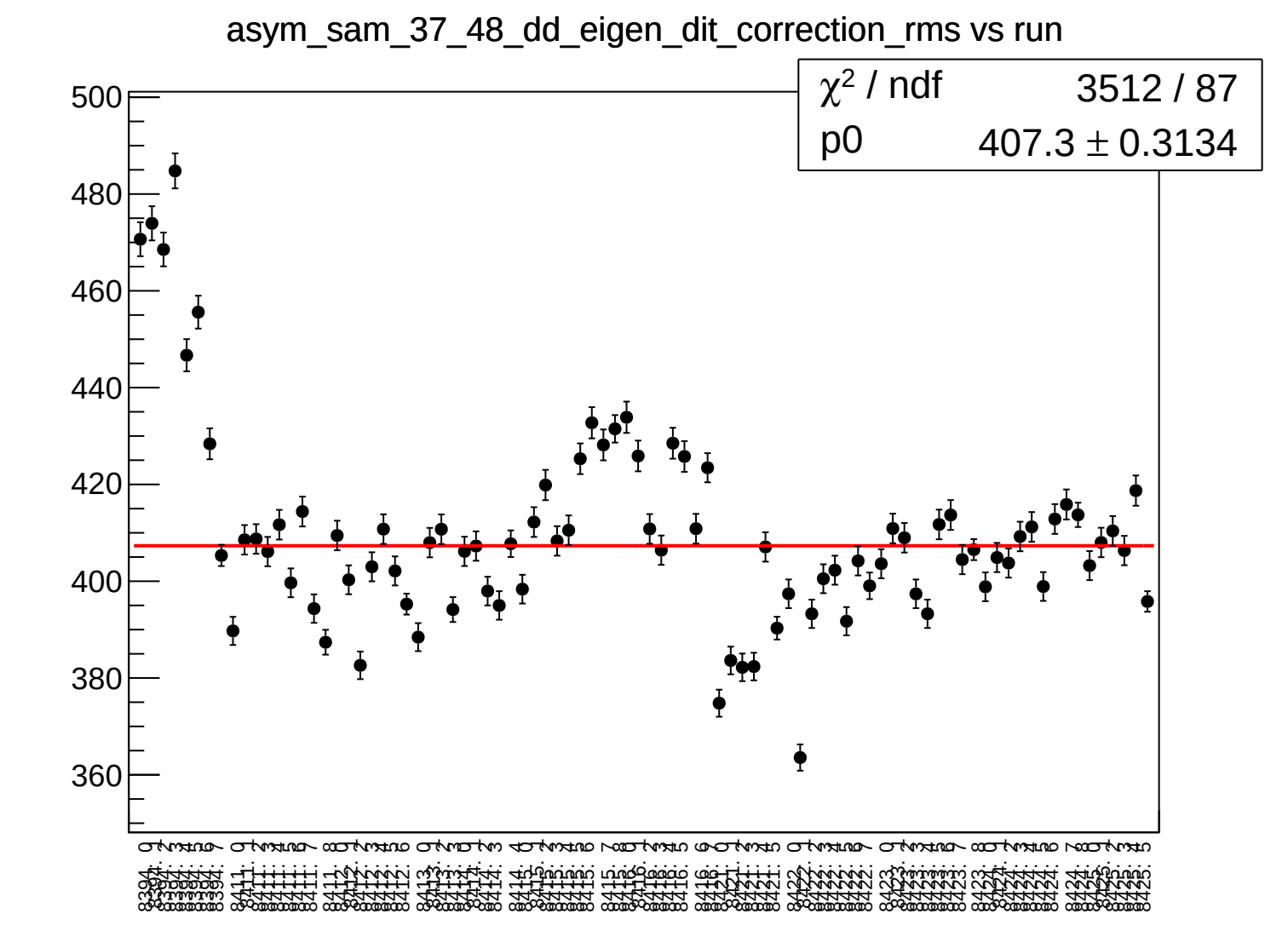

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 3512 / 87
p0 407.3 ± 0.3134
500
480
460
440
420
400
380
360

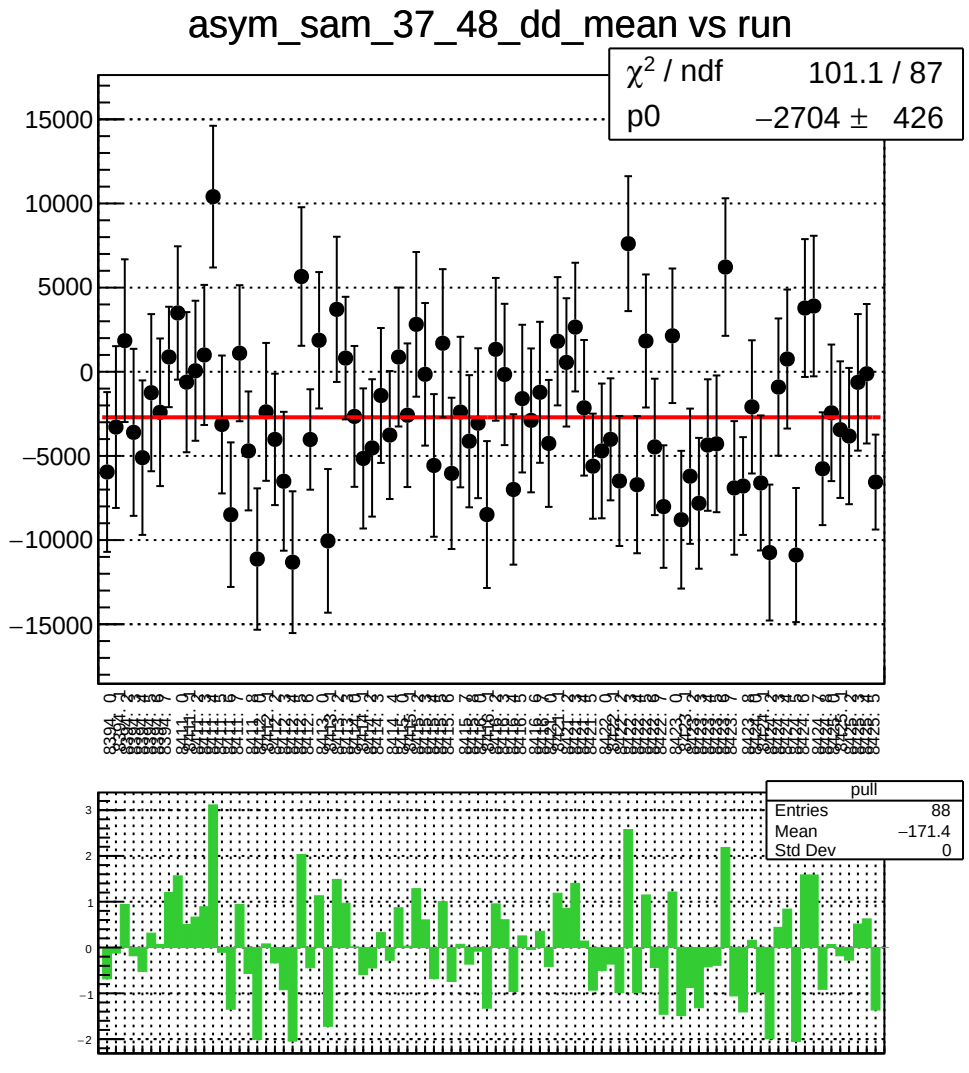

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 71.37 / 87
p0 128.2 ± 76.66
pull
Entries 88
Mean 474.7
Std Dev 0

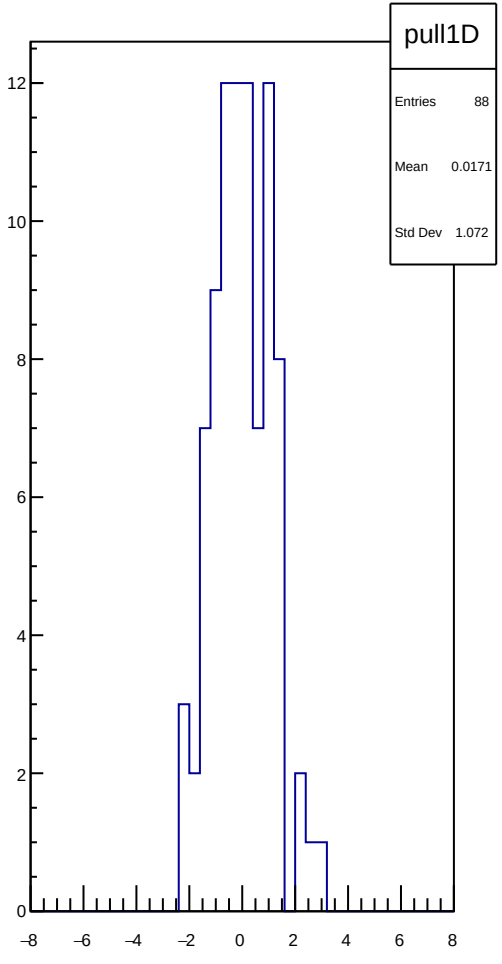

pull1D
Entries 88
Mean 0.004788
Std Dev 0.9006

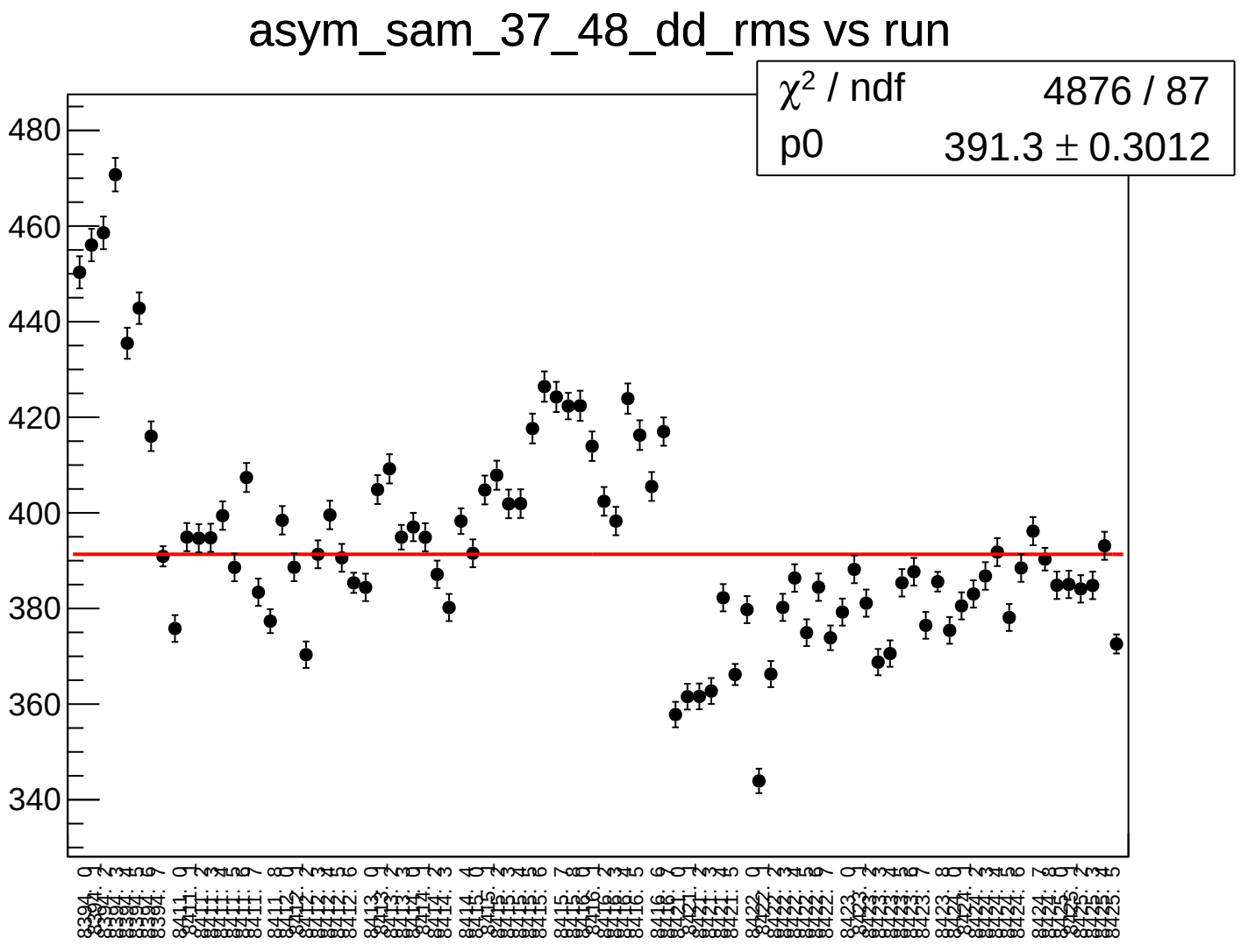

eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 6463 / 87
p0 70.39 ± 0.05421
85
80
75
70
65

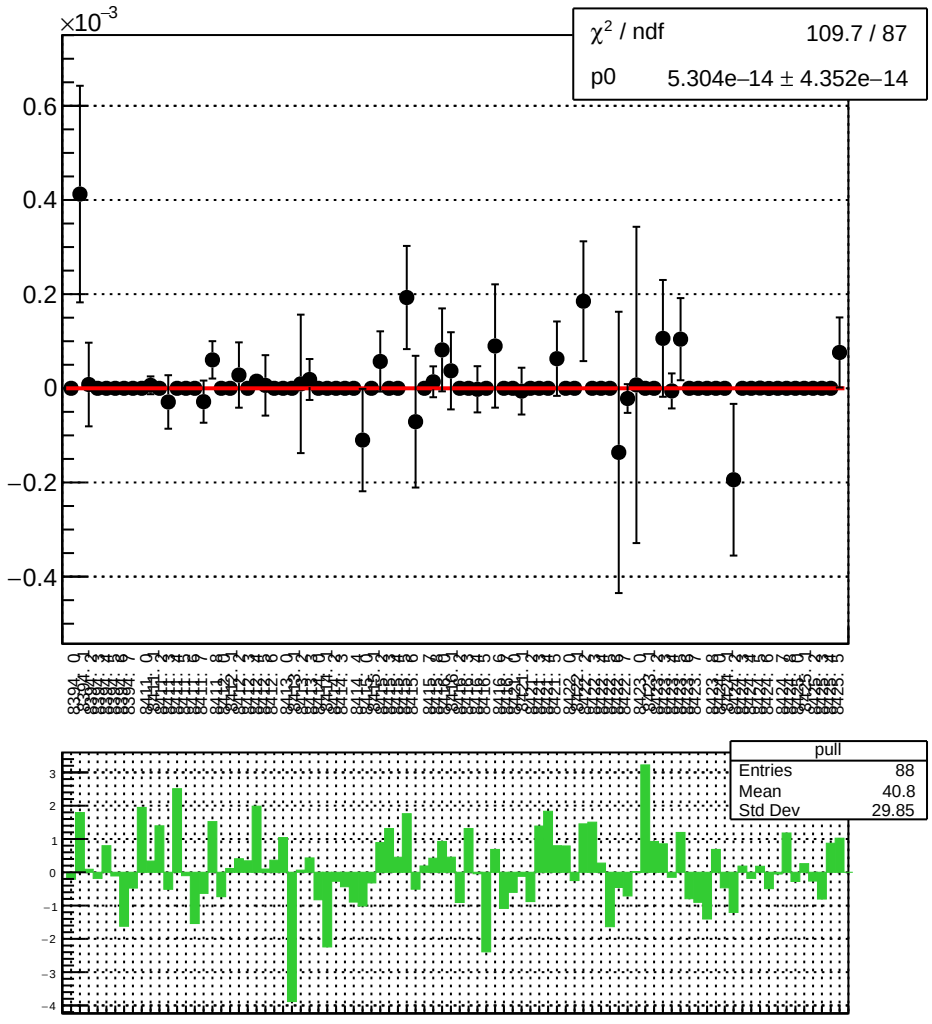

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 98.08 / 87
p0 2814 ± 443.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −255.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.01306
Std Dev 1.056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

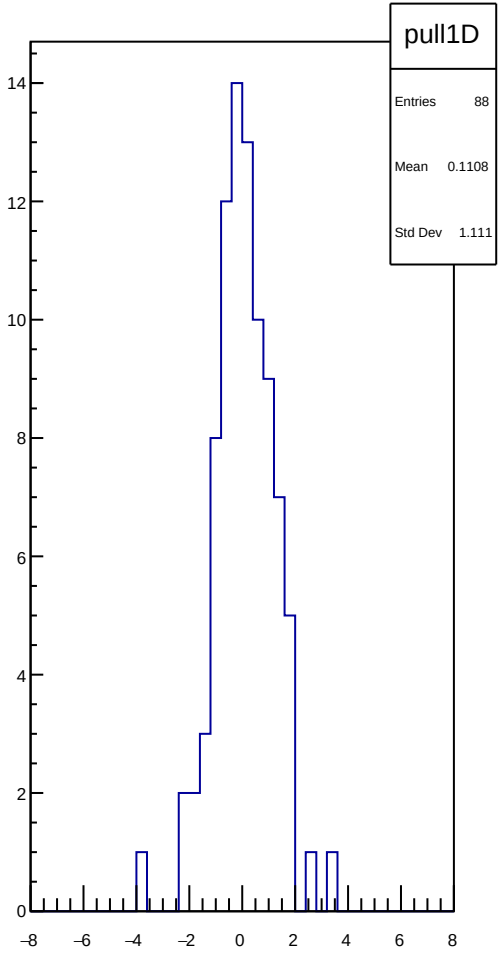

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 3512 / 87
p0 407.3 ± 0.3134
500
480
460
440
420
400
380
360

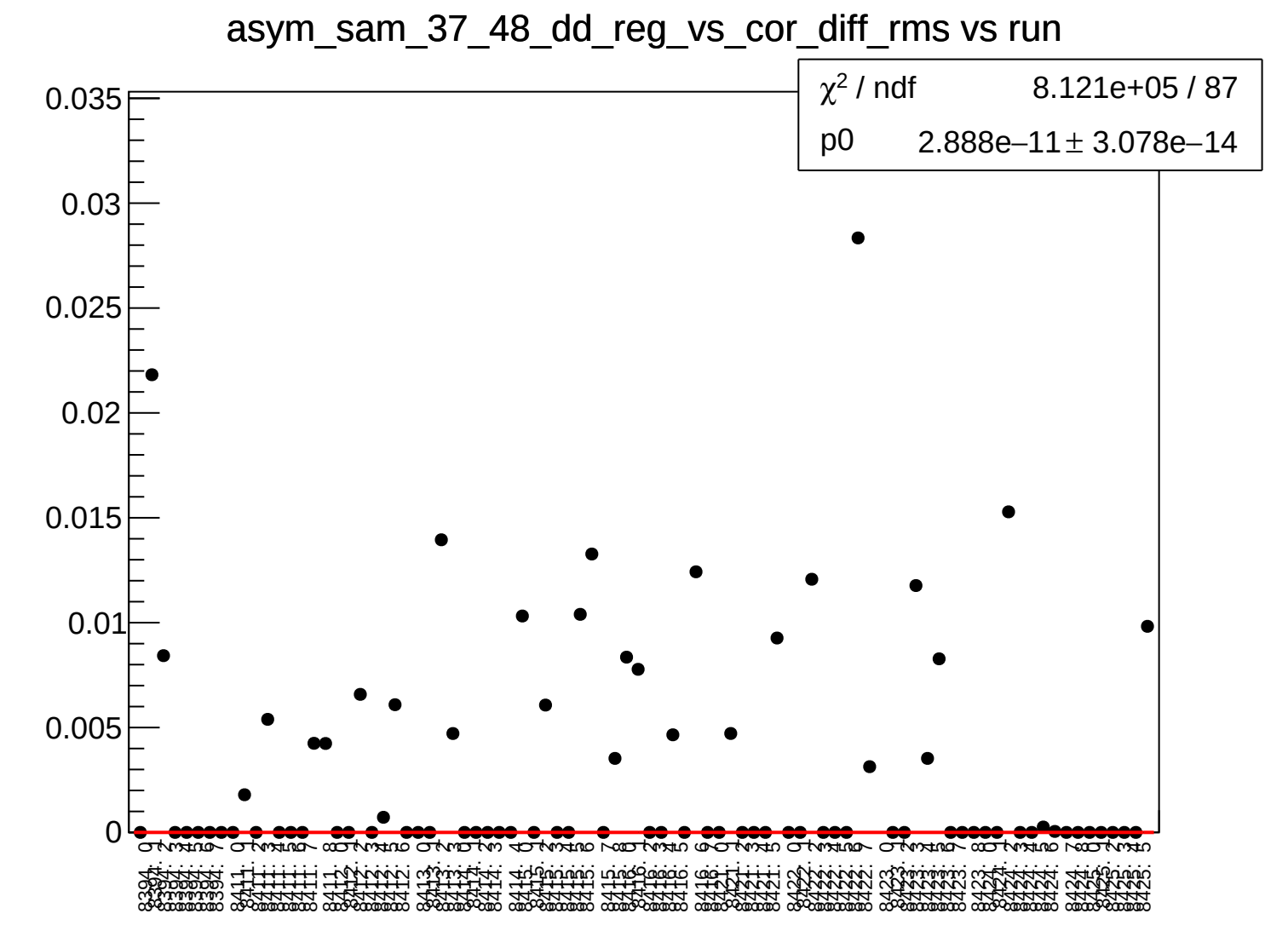

asym_sam_37_48_dd_mean vs run
χ² / ndf 101.1 / 87
p0 −2704 ± 426
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −171.4
Std Dev 0
3
2
1
0
−1
−2

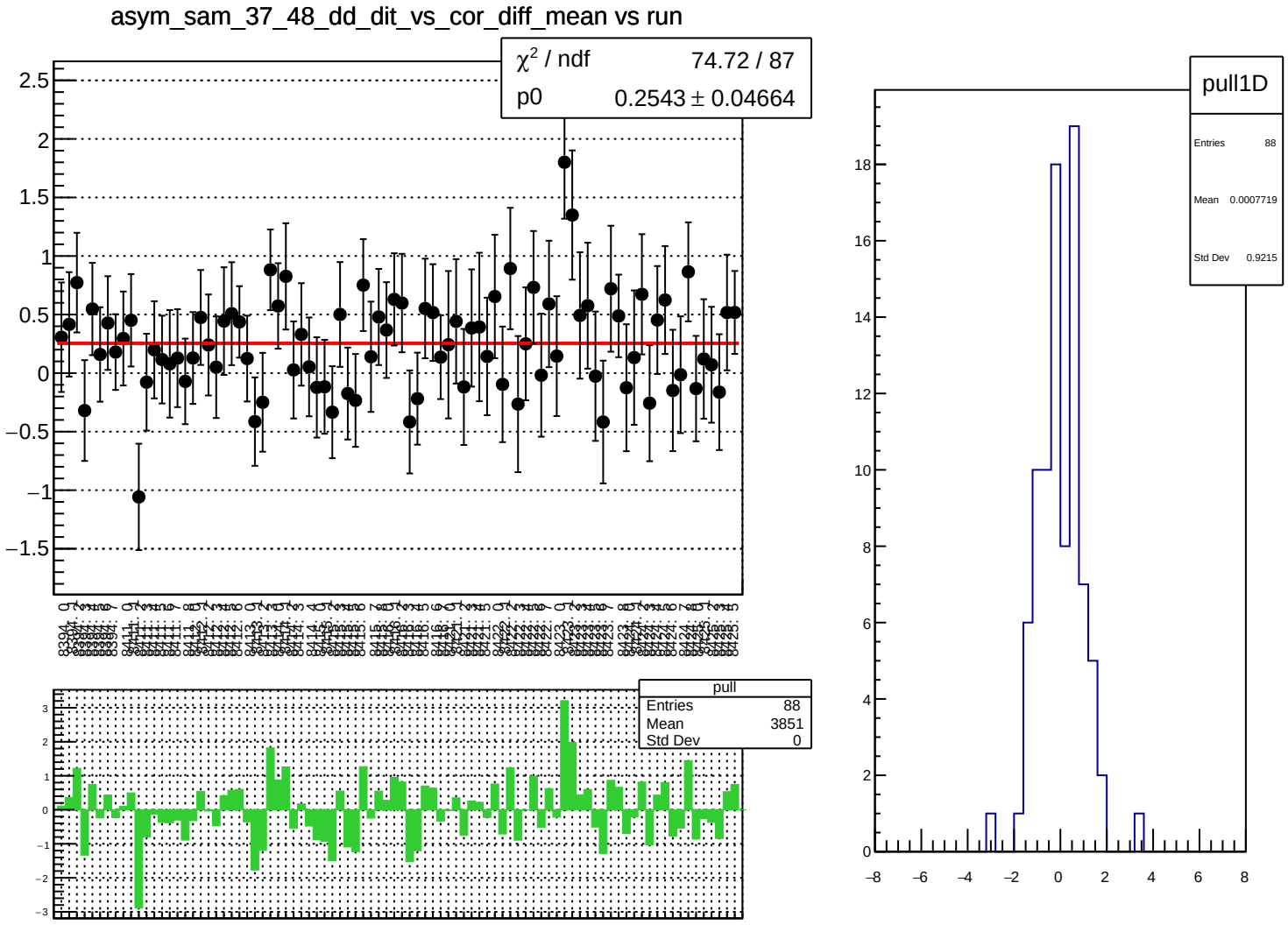

pull1D
Entries 88
Mean 0.0171
Std Dev 1.072
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

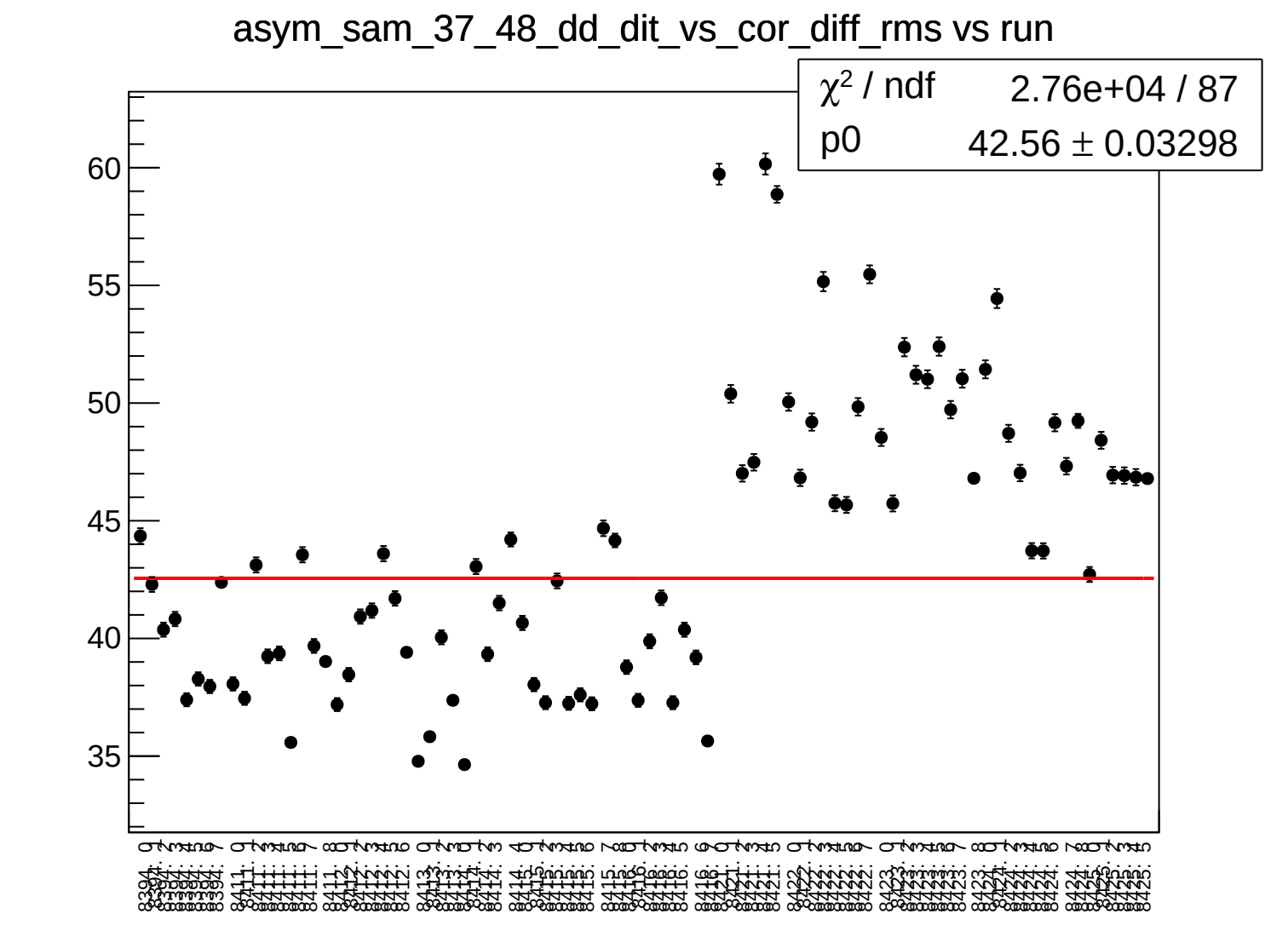

asym_sam_37_48_dd_rms vs run
χ² / ndf 4876 / 87
p0 391.3 ± 0.3012
480
460
440
420
400
380
360
340

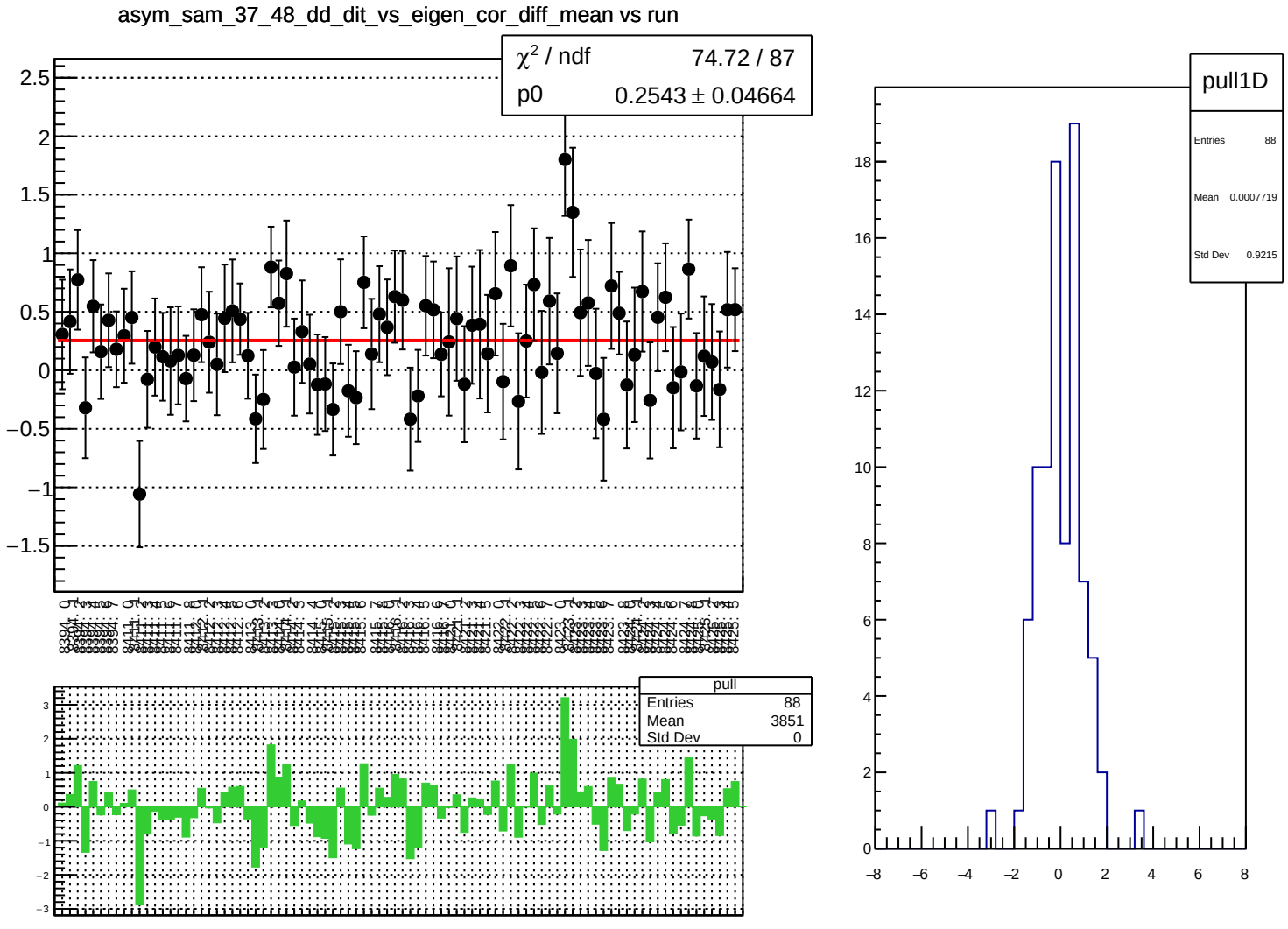

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 109.7 / 87
p0 5.304e−14 ± 4.352e−14
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 88
Mean 40.8
Std Dev 29.85
3
2
1
0
−1
−2
−3
−4

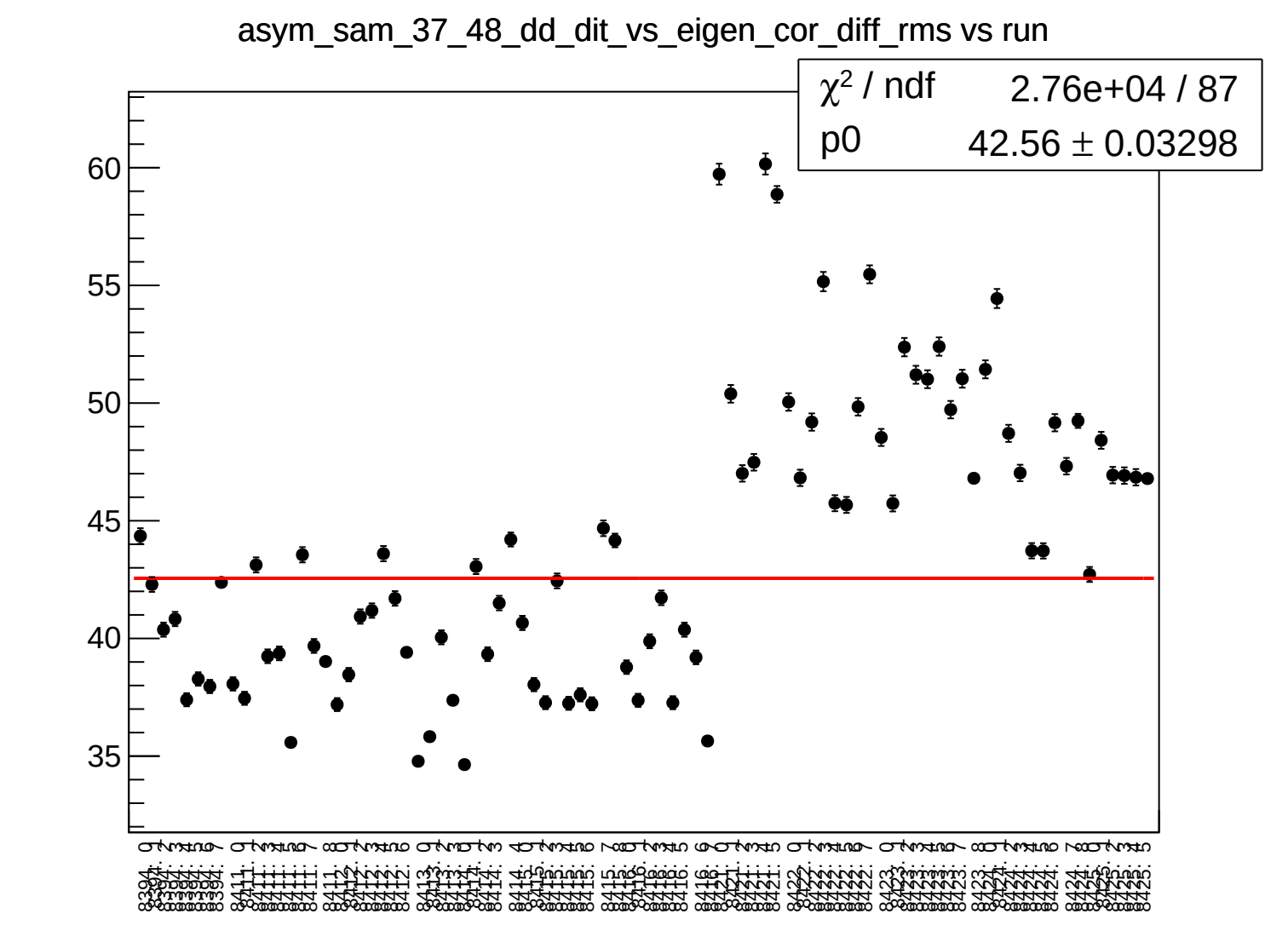

pull1D
Entries 88
Mean 0.1108
Std Dev 1.111
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

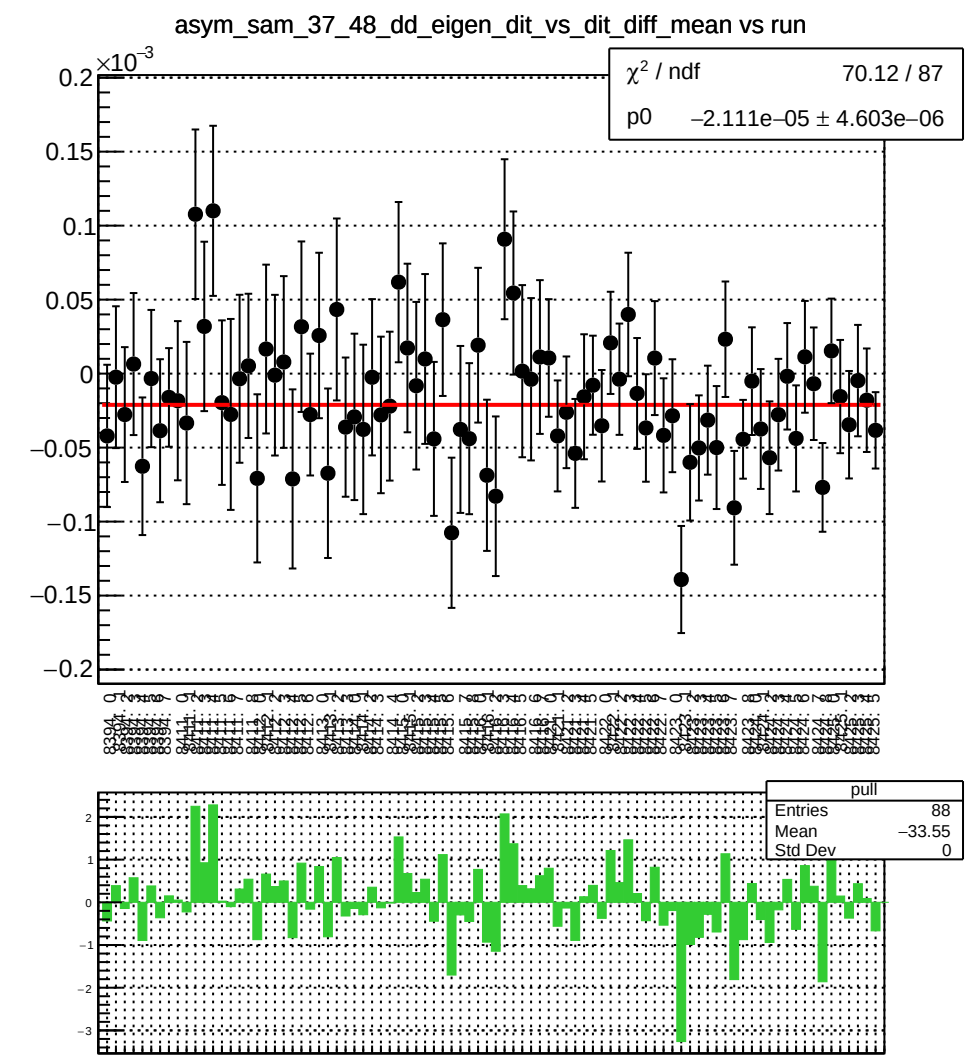

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.121e+05 / 87
p0 2.888e−11 ± 3.078e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

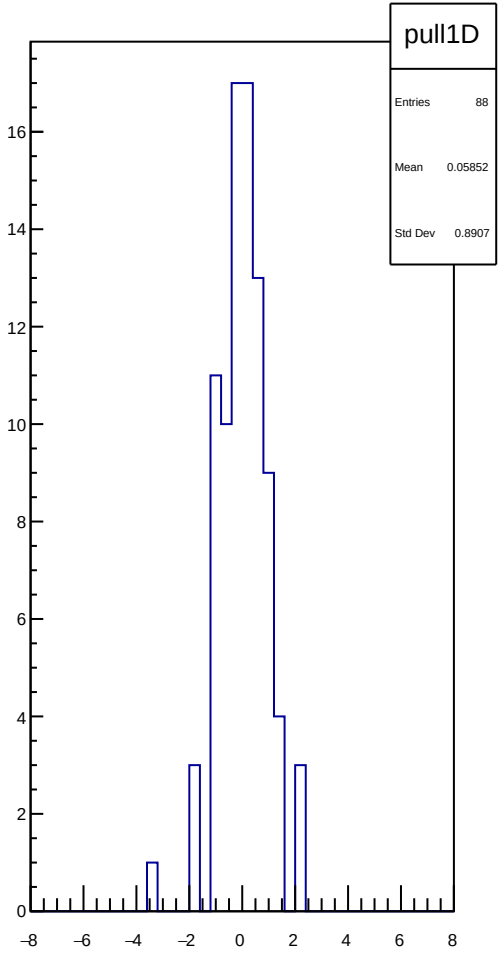

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 74.72 / 87
p0 0.2543 ± 0.04664
pull
Entries 88
Mean 3851
Std Dev 0
pull1D
Entries 88
Mean 0.0007719
Std Dev 0.9215

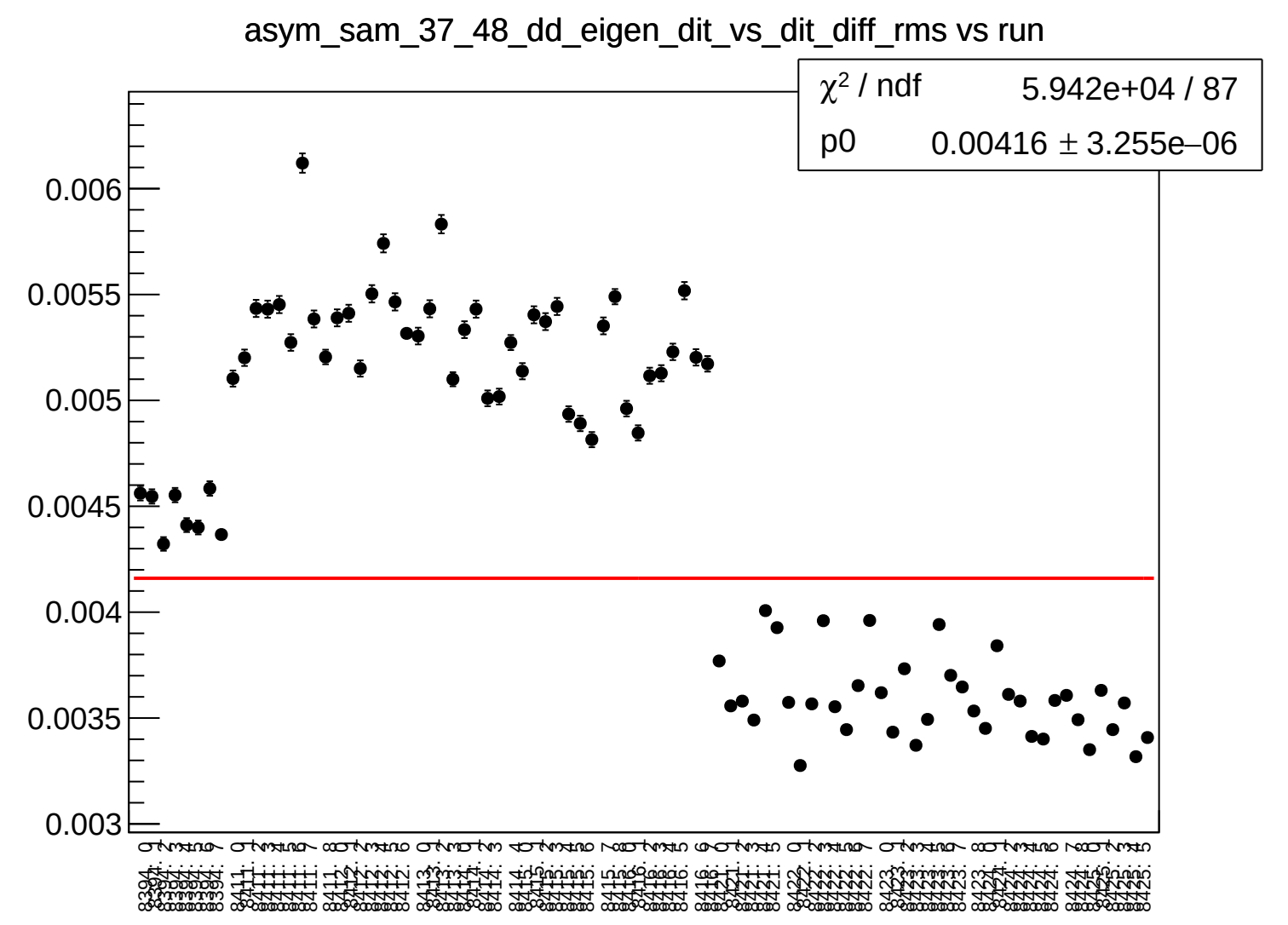

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.76e+04 / 87
p0 42.56 ± 0.03298
60
55
50
45
40
35

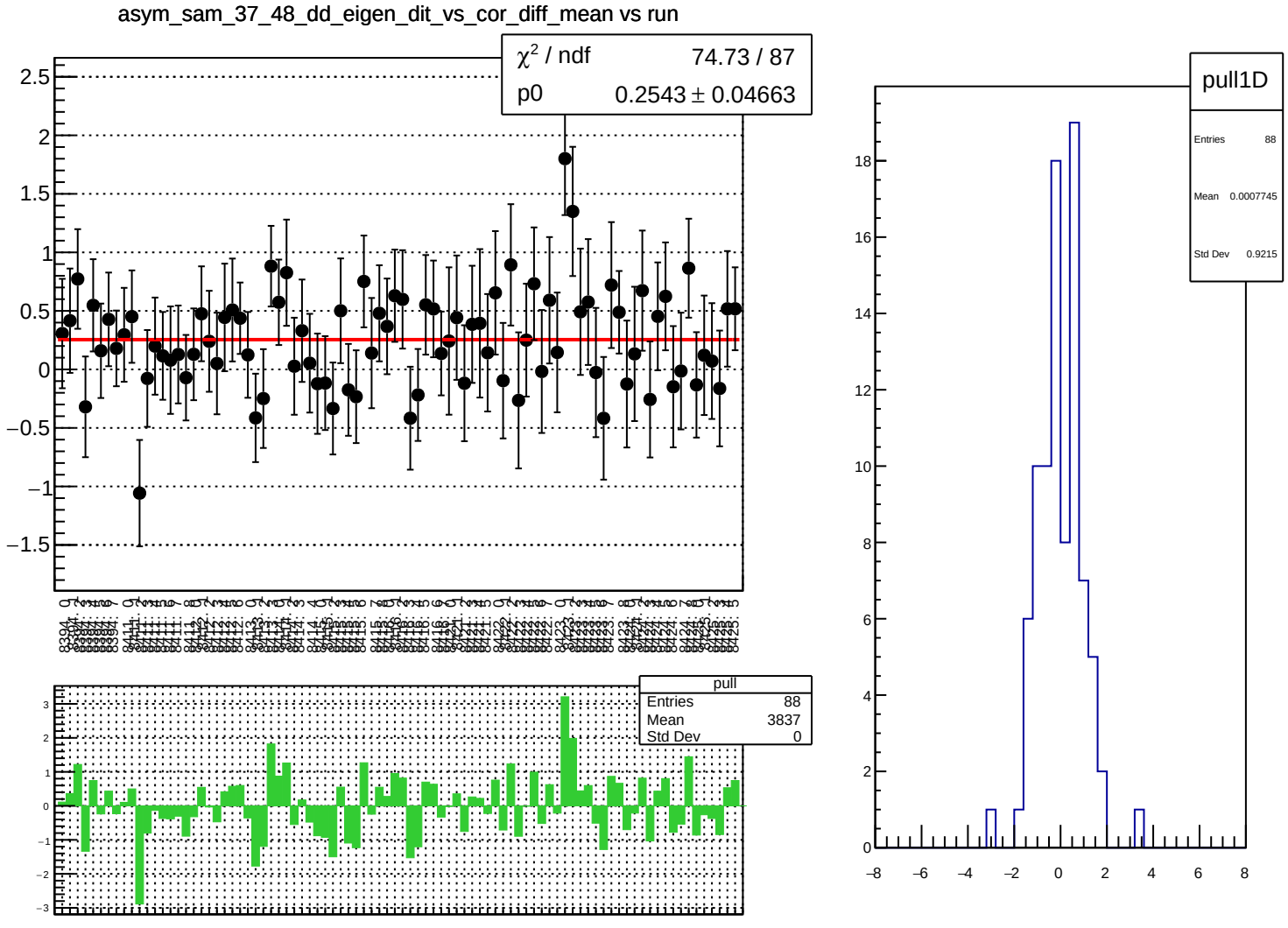

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.72 / 87
p0 0.2543 ± 0.04664
pull
Entries 88
Mean 3851
Std Dev 0
pull1D
Entries 88
Mean 0.0007719
Std Dev 0.9215

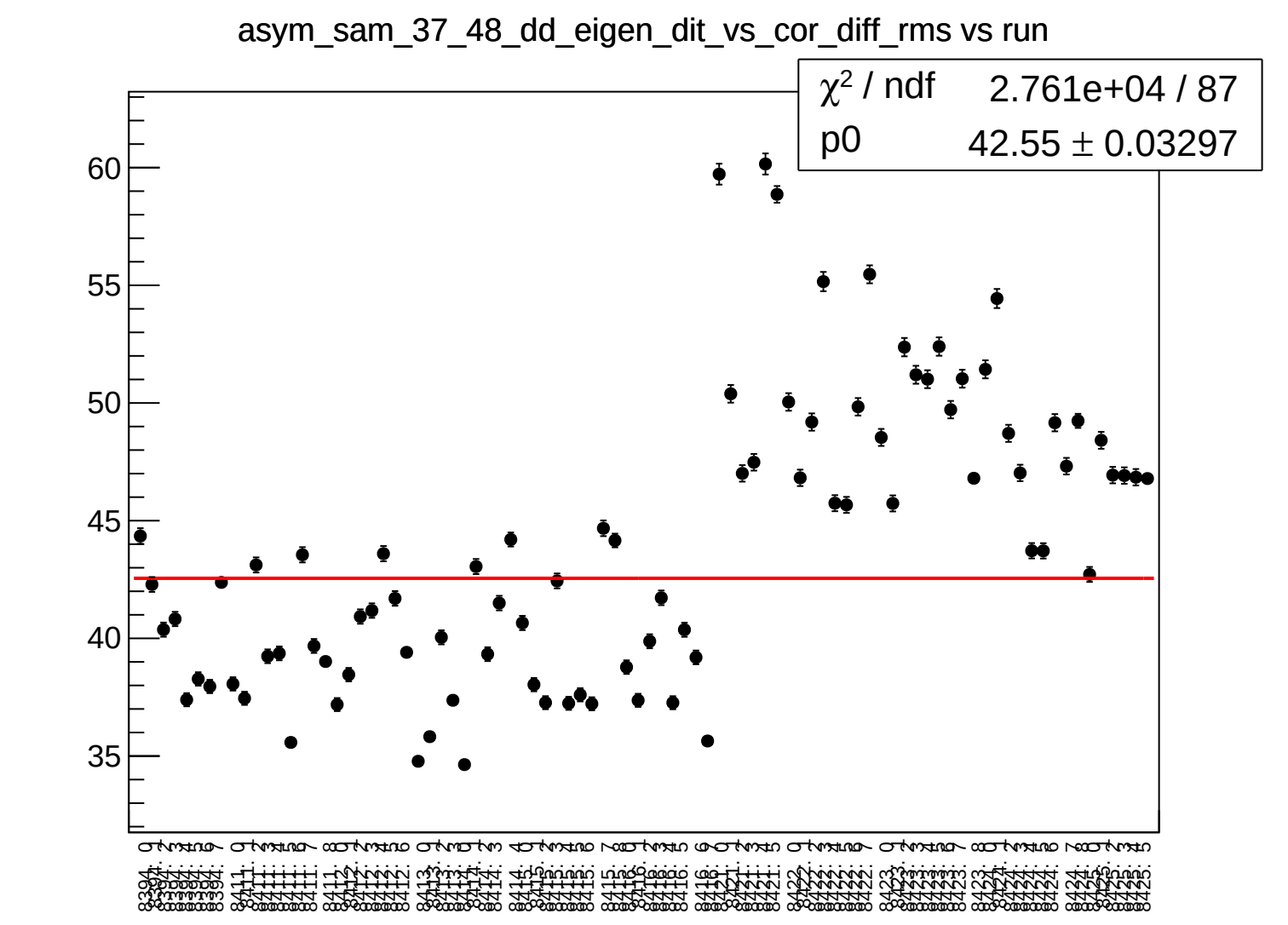

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.76e+04 / 87
p0 42.56 ± 0.03298
60
55
50
45
40
35

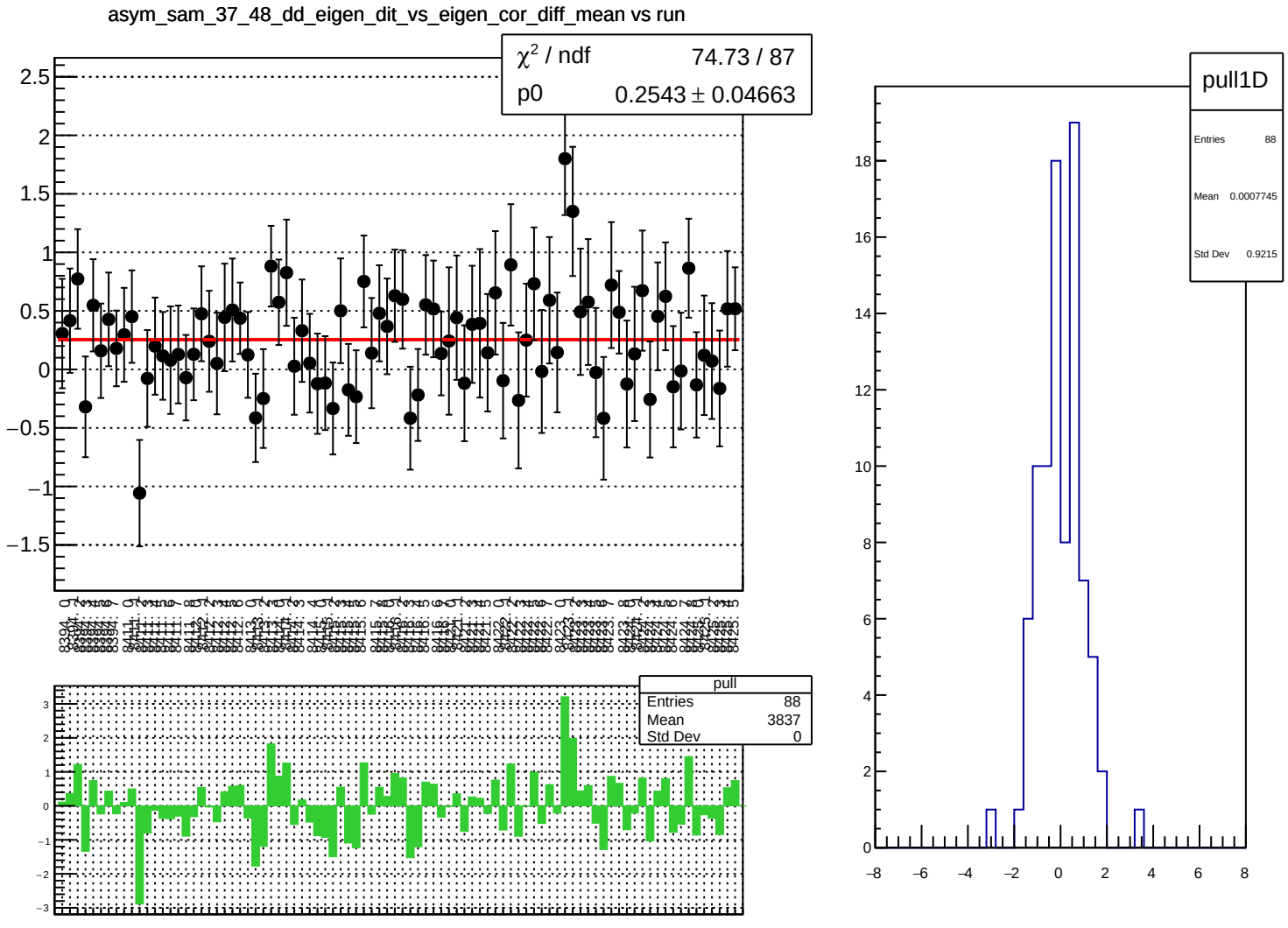

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.12 / 87
p0 −2.111e−05 ± 4.603e−06
pull
Entries 88
Mean −33.55
Std Dev 0

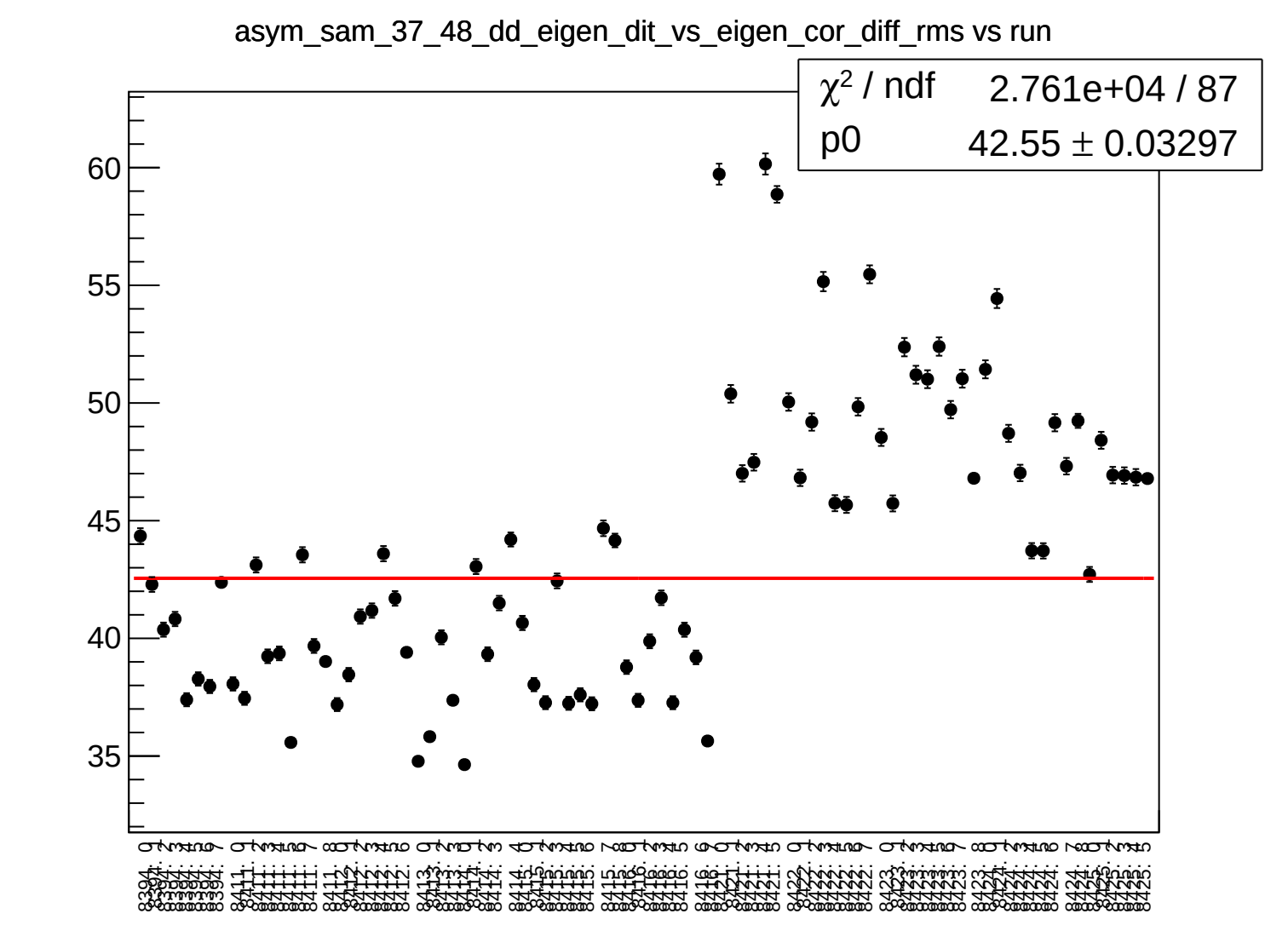

pull1D
Entries 88
Mean 0.05852
Std Dev 0.8907

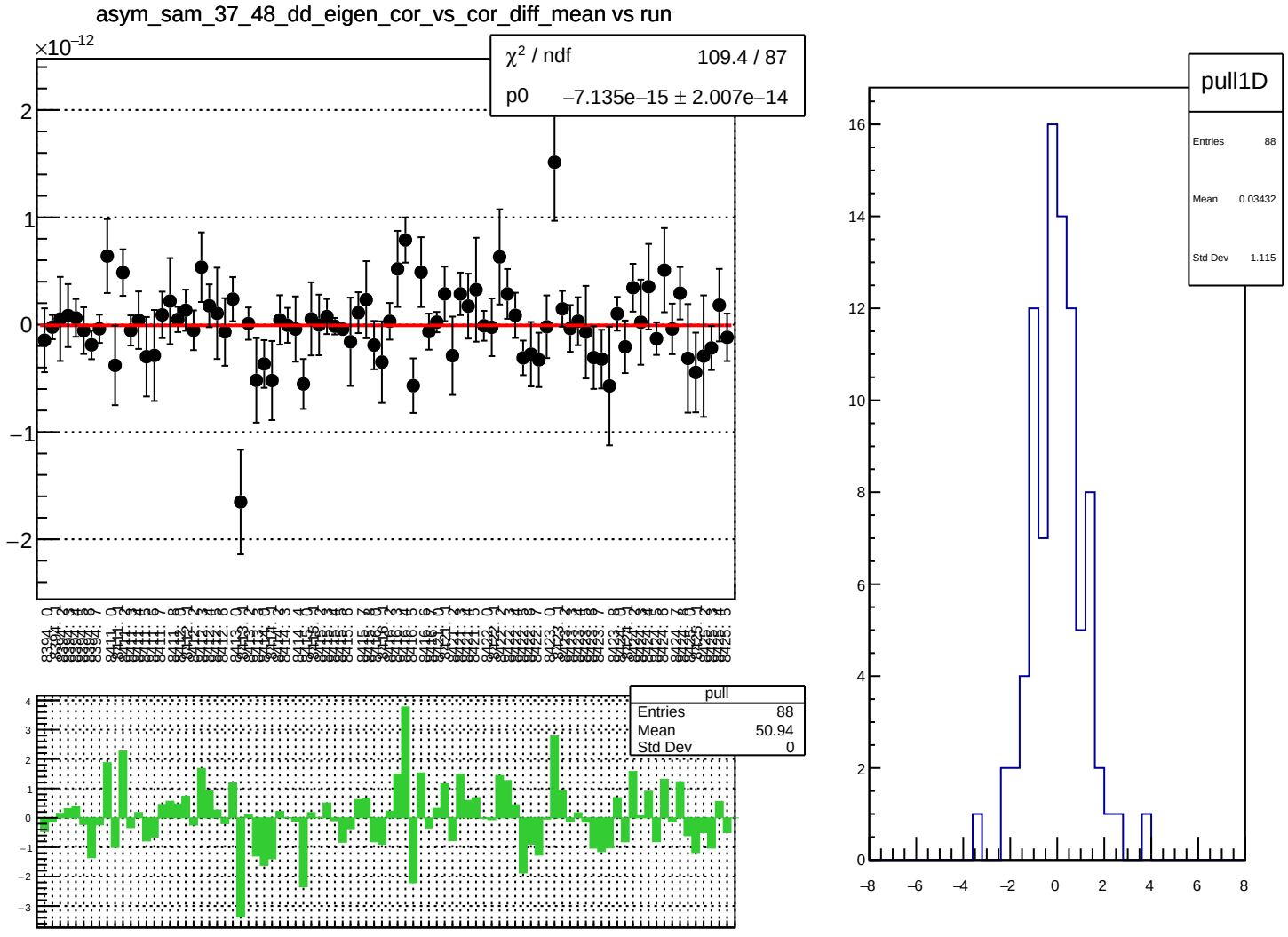

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.942e+04 / 87
p0 0.00416 ± 3.255e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003

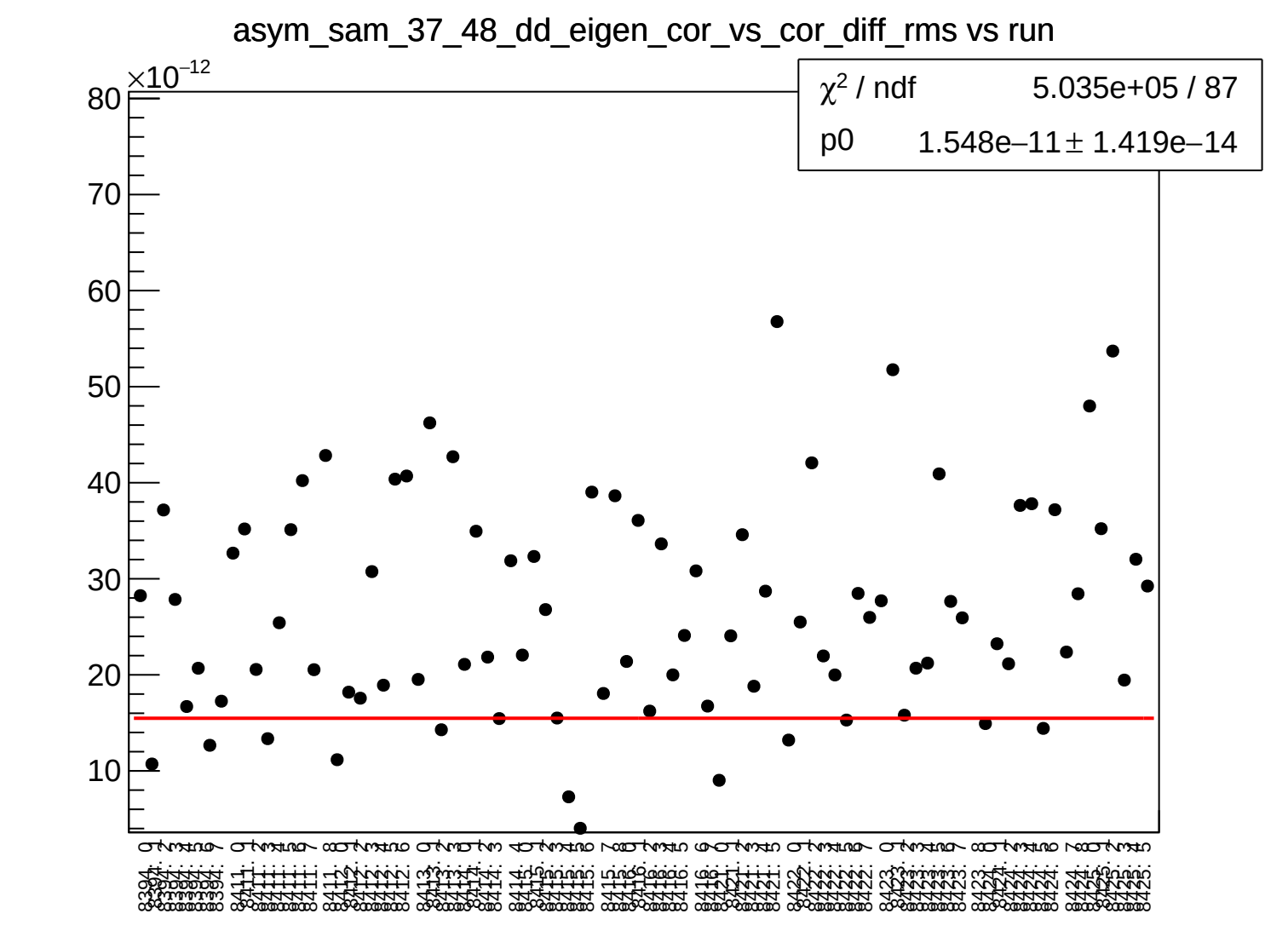

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.73 / 87
p0 0.2543 ± 0.04663
pull
Entries 88
Mean 3837
Std Dev 0
pull1D
Entries 88
Mean 0.0007745
Std Dev 0.9215

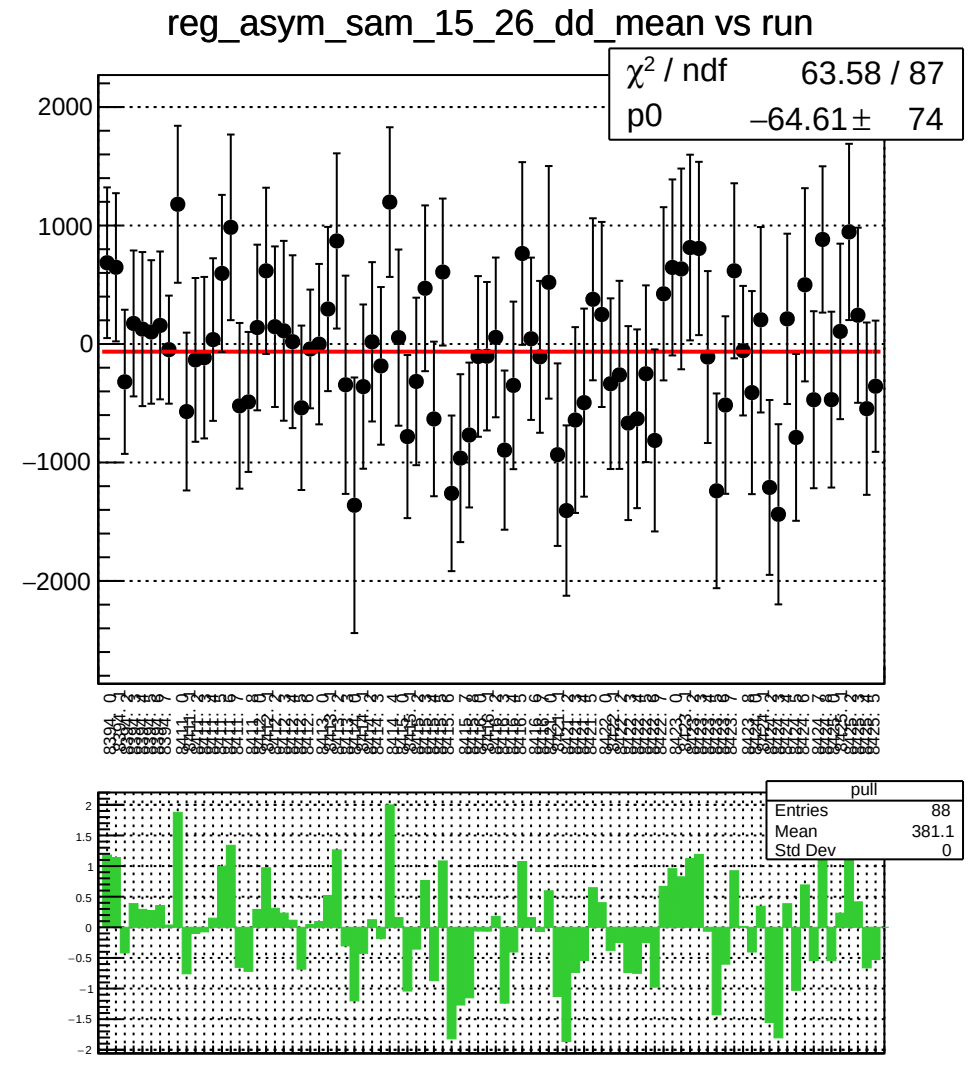

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.761e+04 / 87
p0 42.55 ± 0.03297
60
55
50
45
40
35

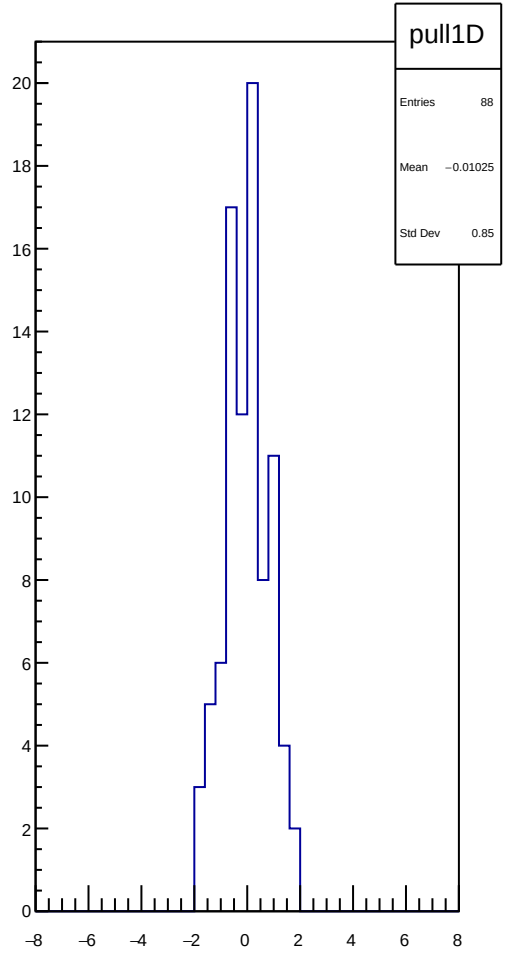

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.73 / 87
p0 0.2543 ± 0.04663
pull
Entries 88
Mean 3837
Std Dev 0
pull1D
Entries 88
Mean 0.0007745
Std Dev 0.9215

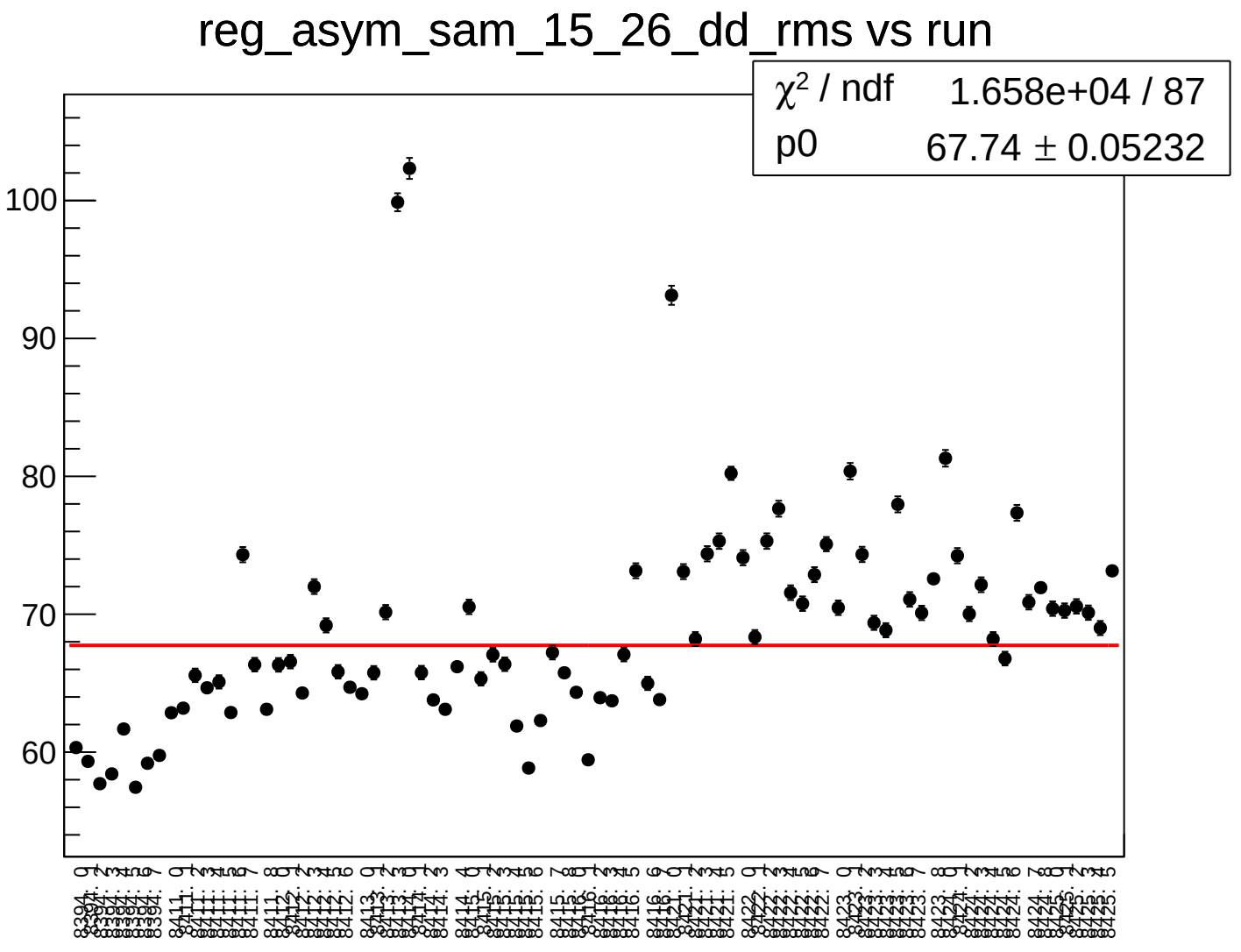

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.761e+04 / 87
p0 42.55 ± 0.03297
60
55
50
45
40
35

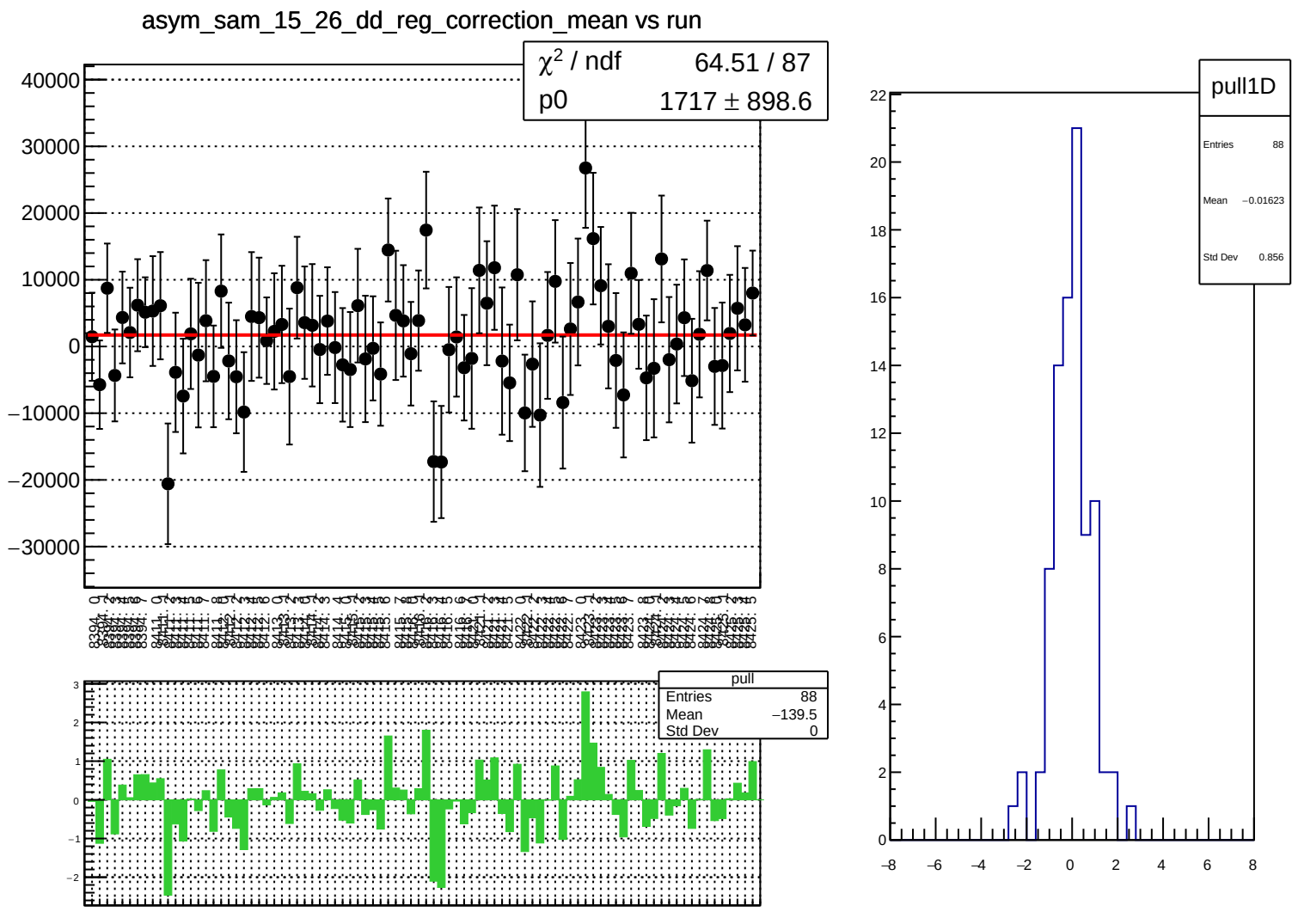

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 109.4 / 87
p0 −7.135e−15 ± 2.007e−14
pull
Entries 88
Mean 50.94
Std Dev 0
pull1D
Entries 88
Mean 0.03432
Std Dev 1.115

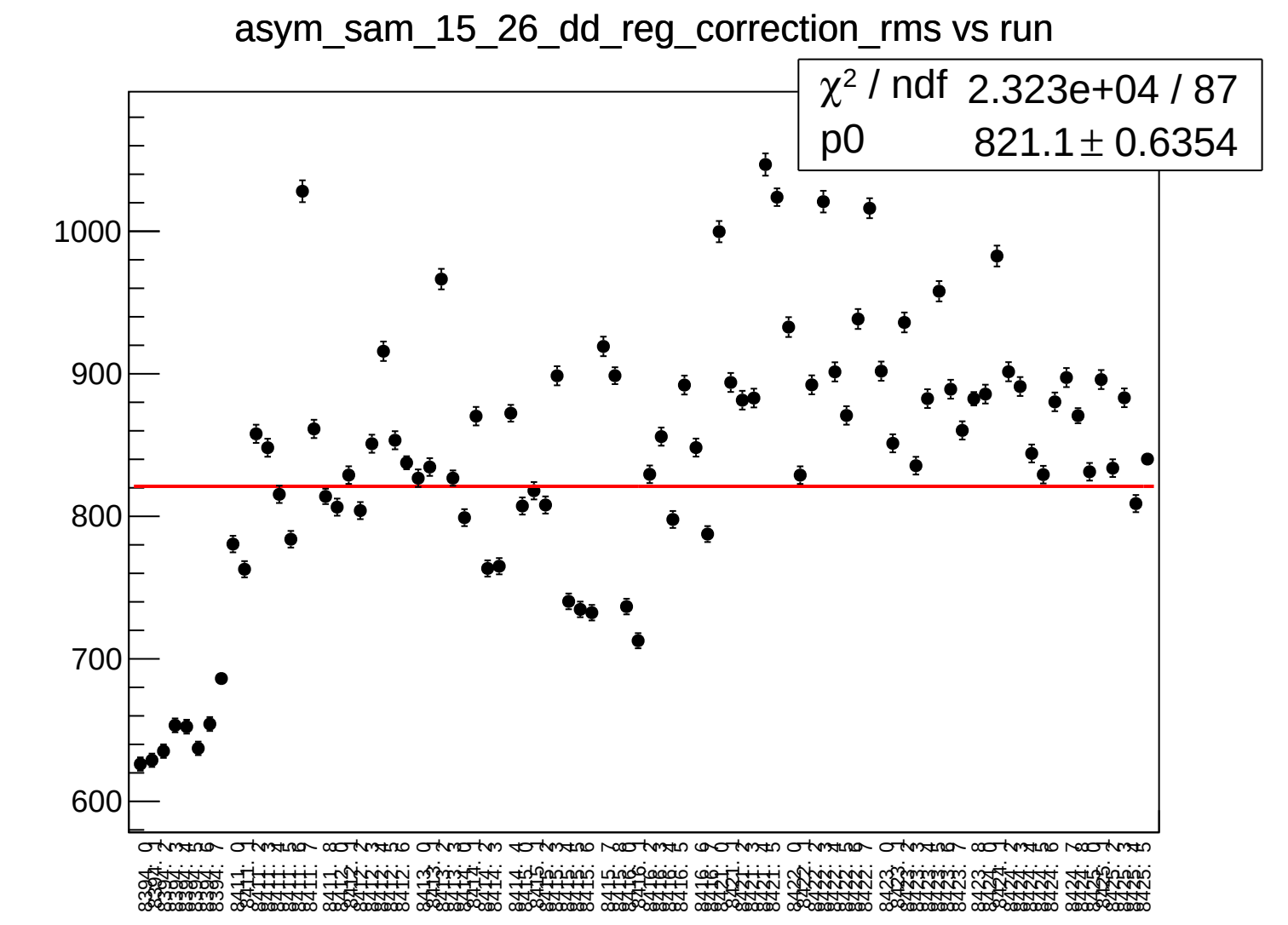

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
80
70
60
50
40
30
20
10
χ² / ndf 5.035e+05 / 87
p0 1.548e−11 ± 1.419e−14

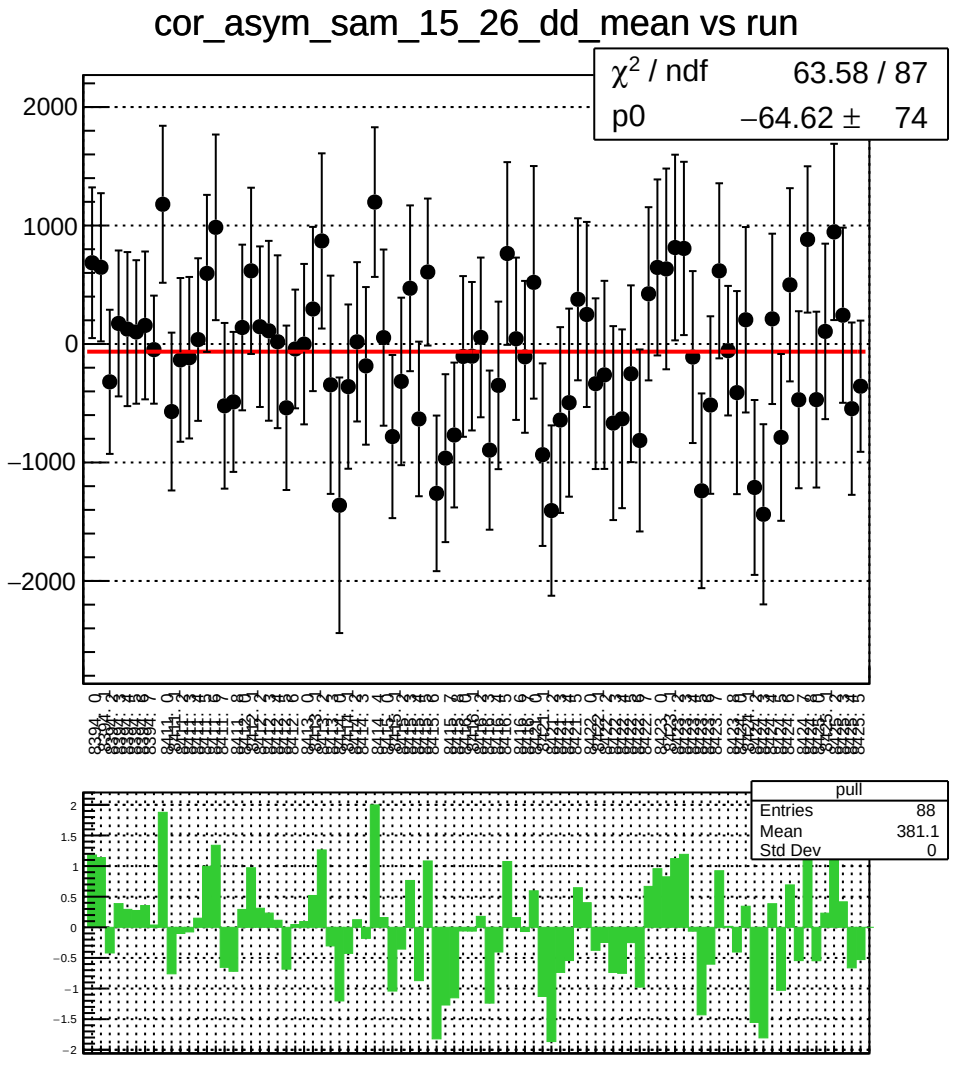

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 63.58 / 87
p0 −64.61 ± 74
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 381.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

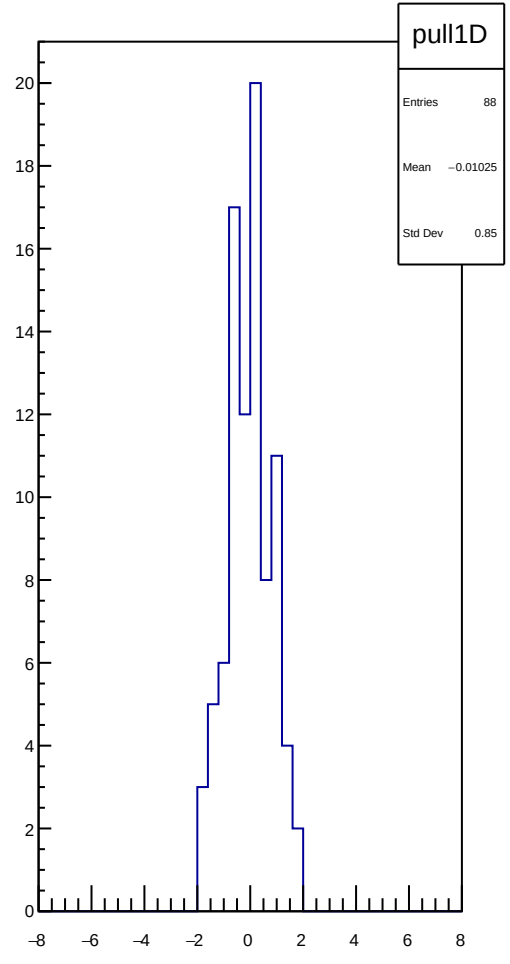

pull1D
Entries 88
Mean −0.01025
Std Dev 0.85
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

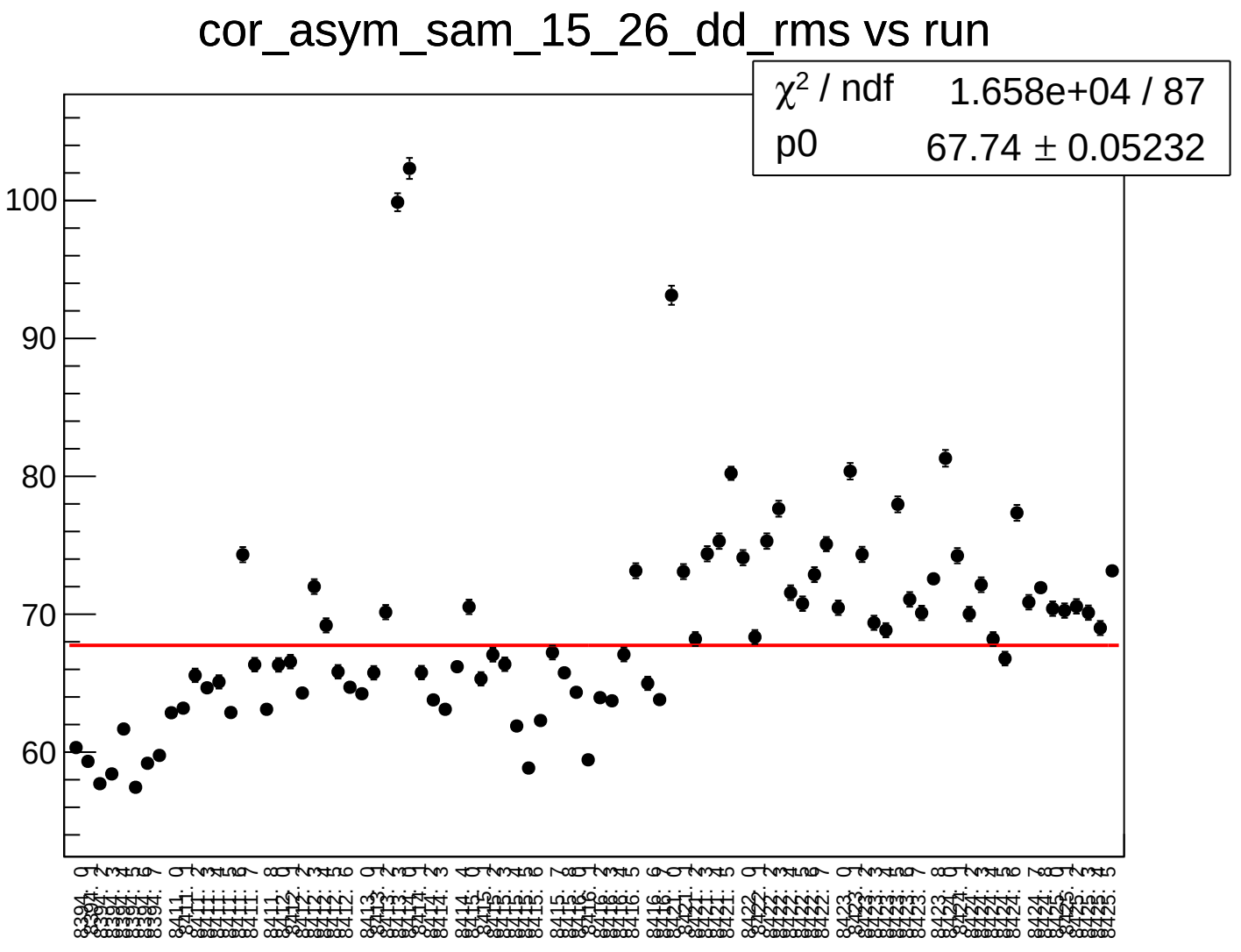

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.658e+04 / 87
p0 67.74 ± 0.05232
100
90
80
70
60

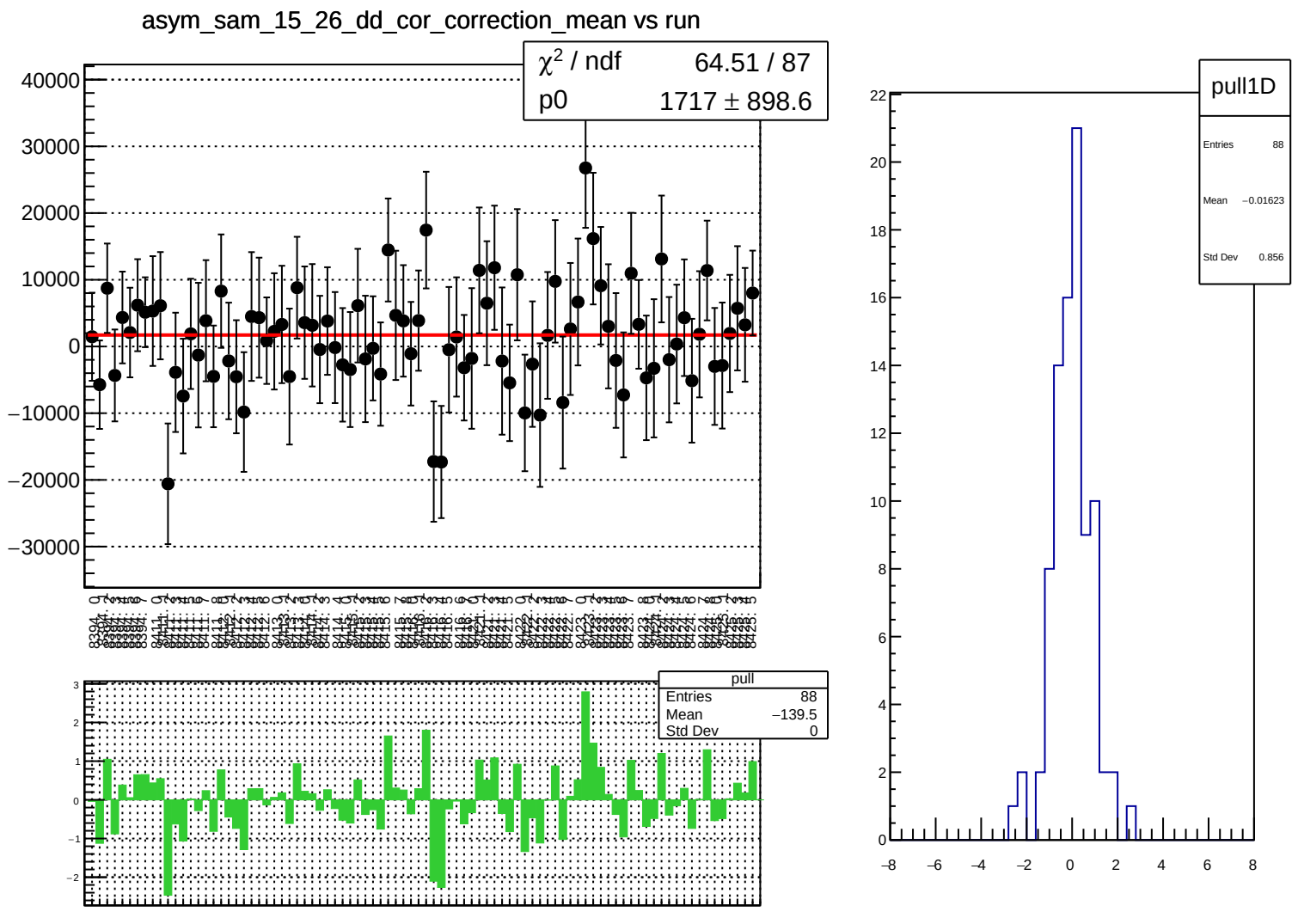

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 64.51 / 87
p0 1717 ± 898.6
pull
Entries 88
Mean −139.5
Std Dev 0
pull1D
Entries 88
Mean −0.01623
Std Dev 0.856

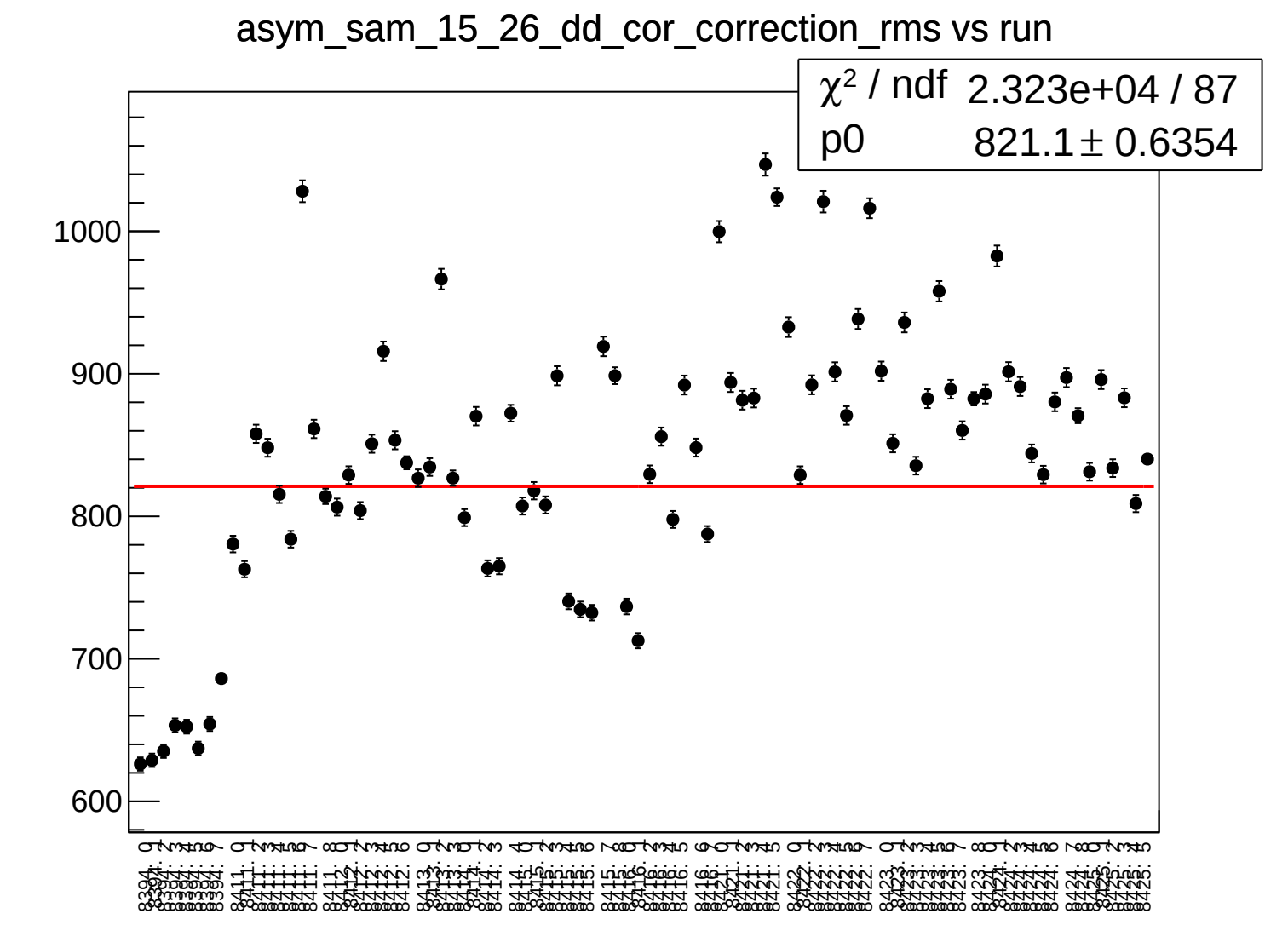

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 2.323e+04 / 87
p0 821.1 ± 0.6354
1000
900
800
700
600

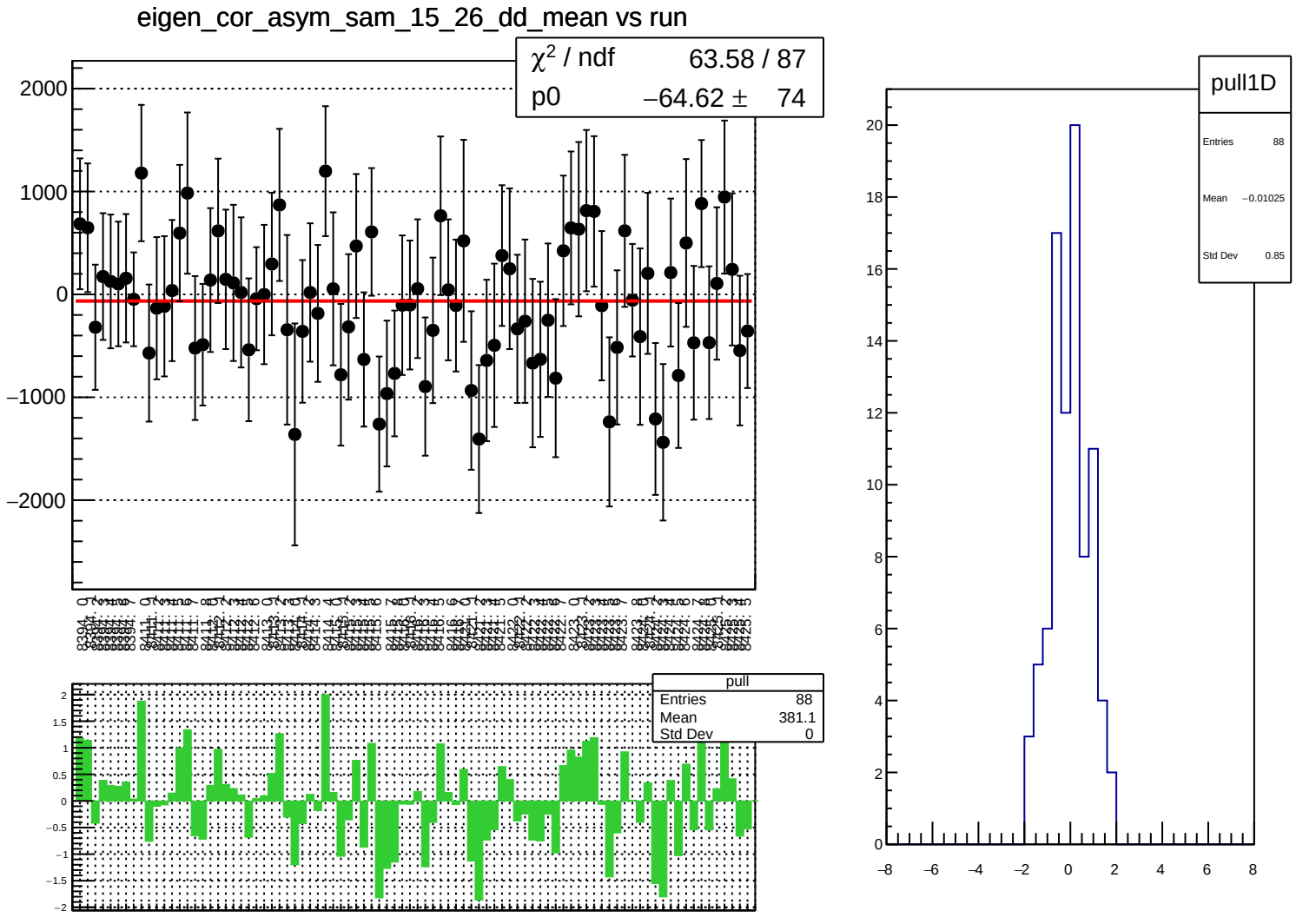

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 63.58 / 87
p0 −64.62 ± 74
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 381.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

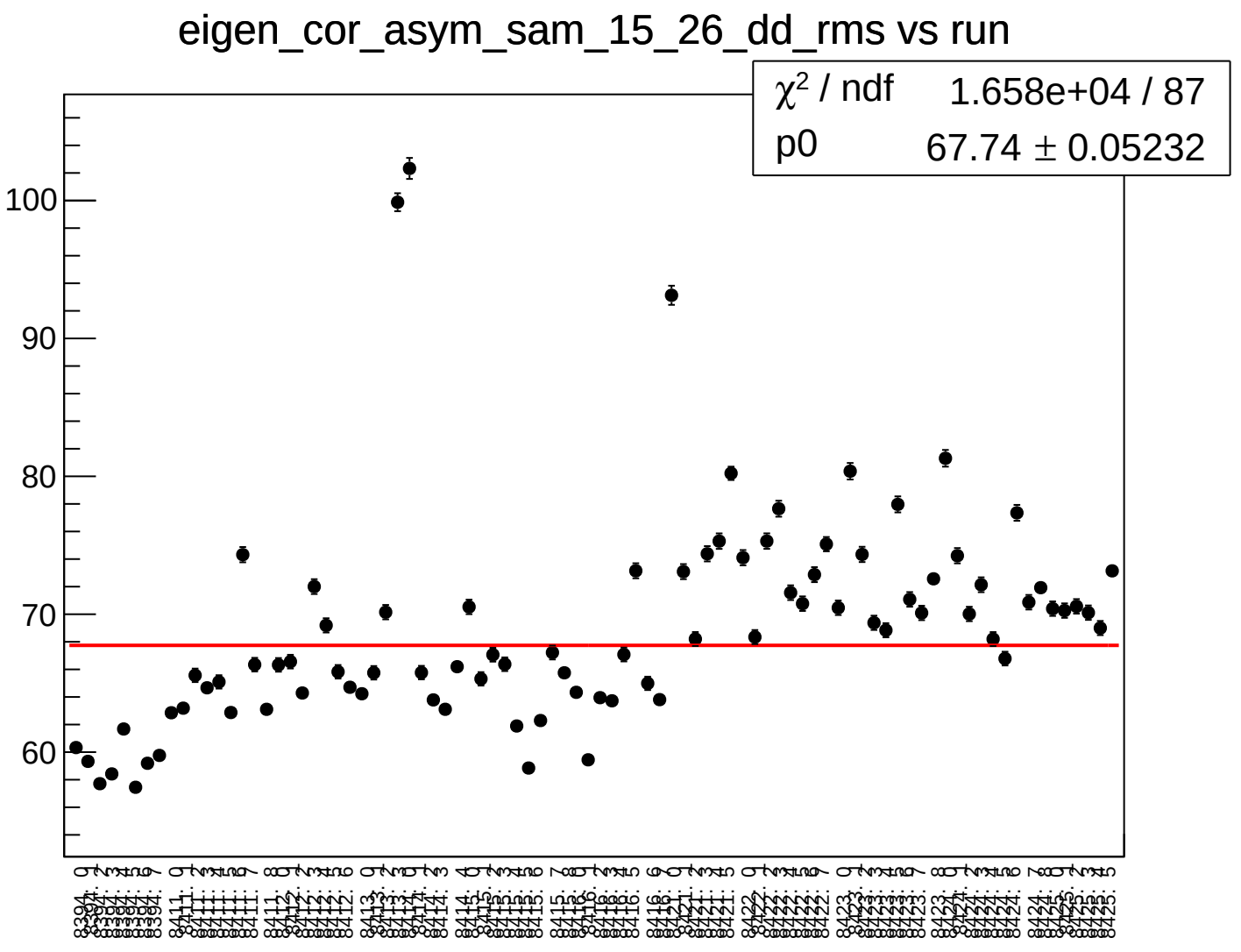

pull1D
Entries 88
Mean −0.01025
Std Dev 0.85
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

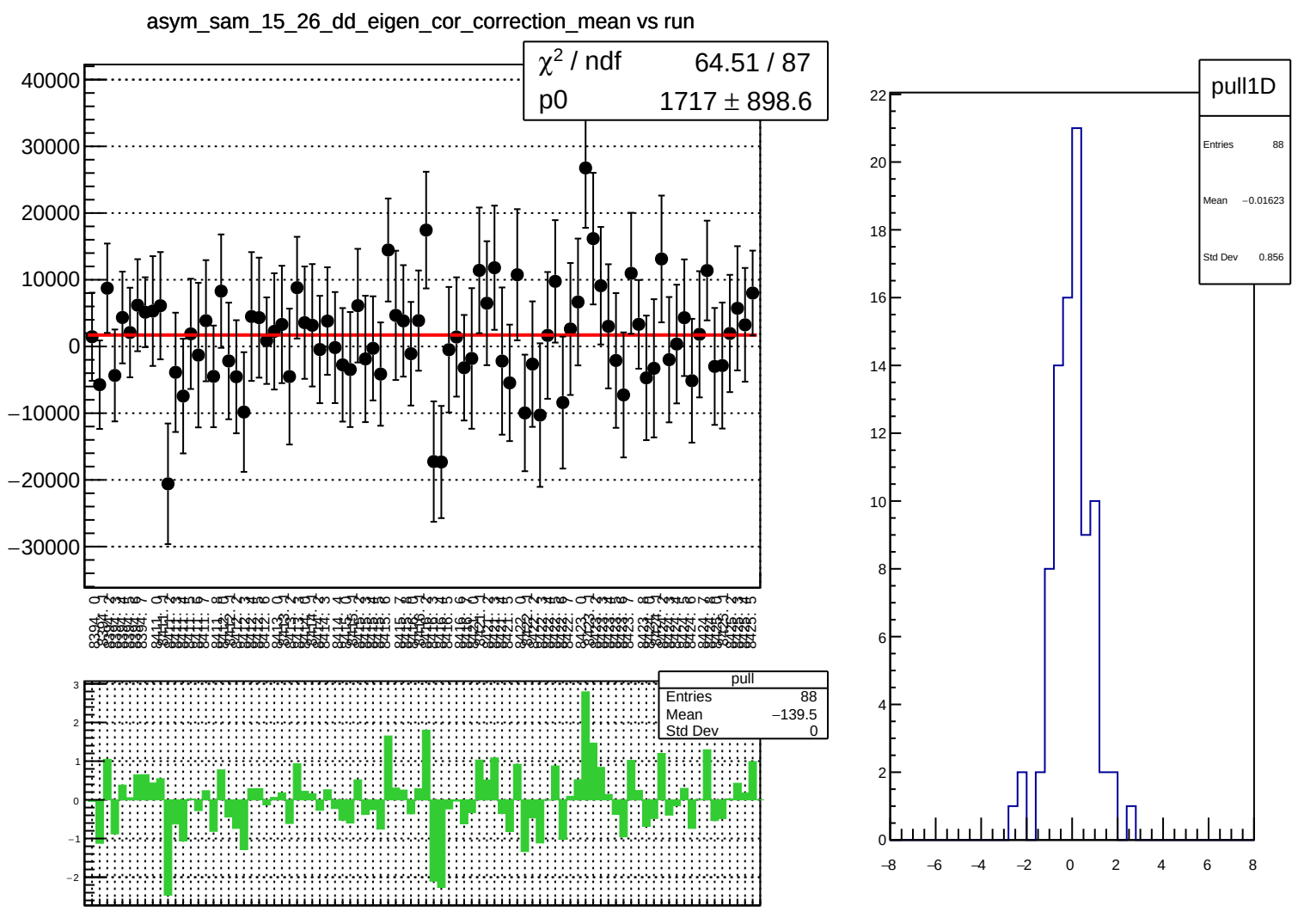

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.658e+04 / 87
p0 67.74 ± 0.05232
100
90
80
70
60

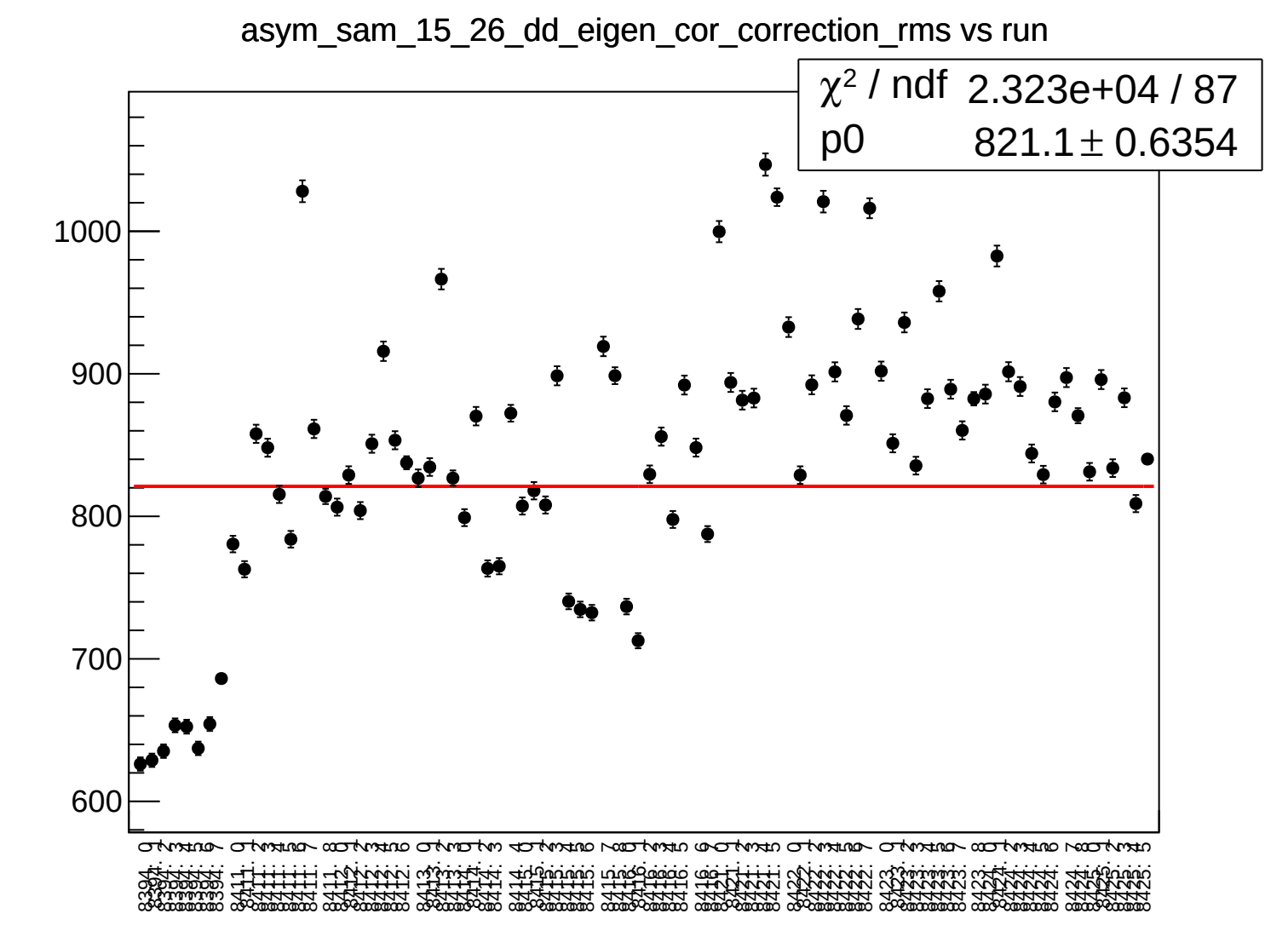

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 64.51 / 87
p0 1717 ± 898.6
pull
Entries 88
Mean −139.5
Std Dev 0
pull1D
Entries 88
Mean −0.01623
Std Dev 0.856

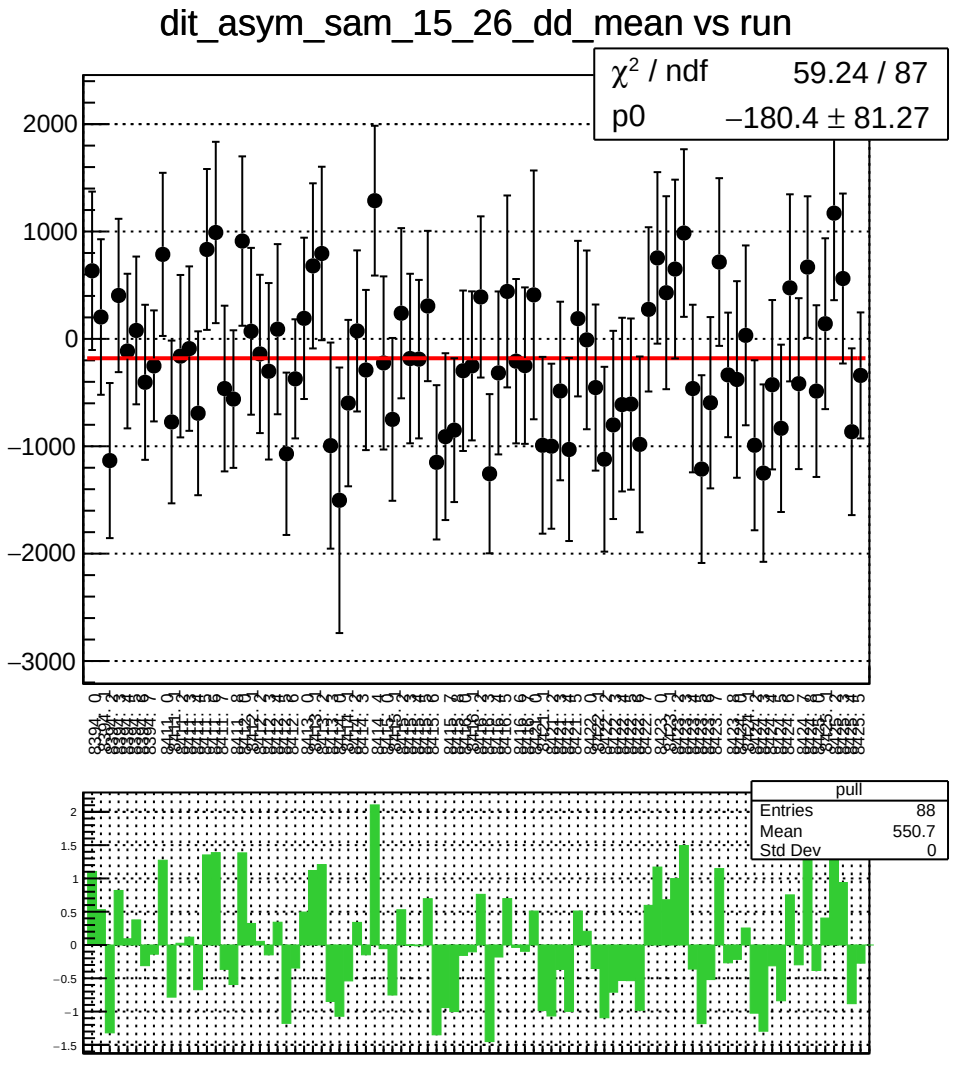

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 2.323e+04 / 87
p0 821.1 ± 0.6354
1000
900
800
700
600

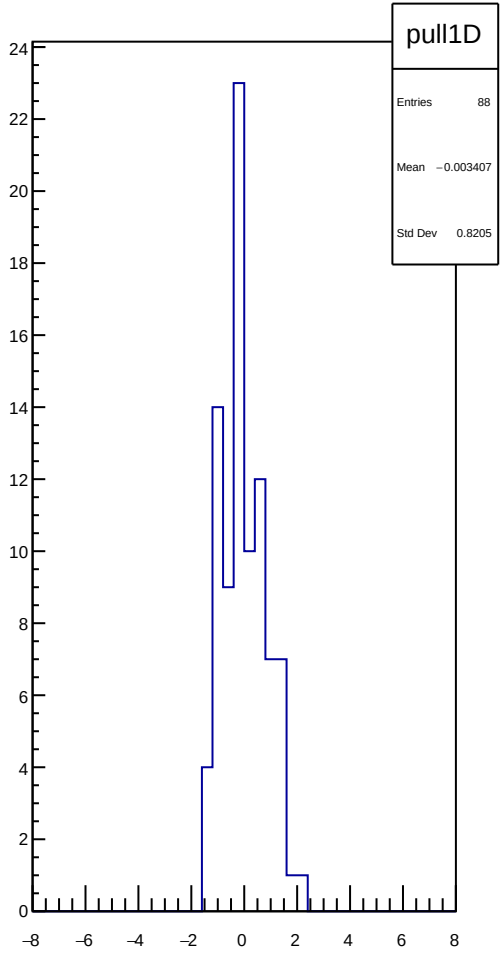

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 63.58 / 87
p0 −64.62 ± 74
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 381.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.01025
Std Dev 0.85
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

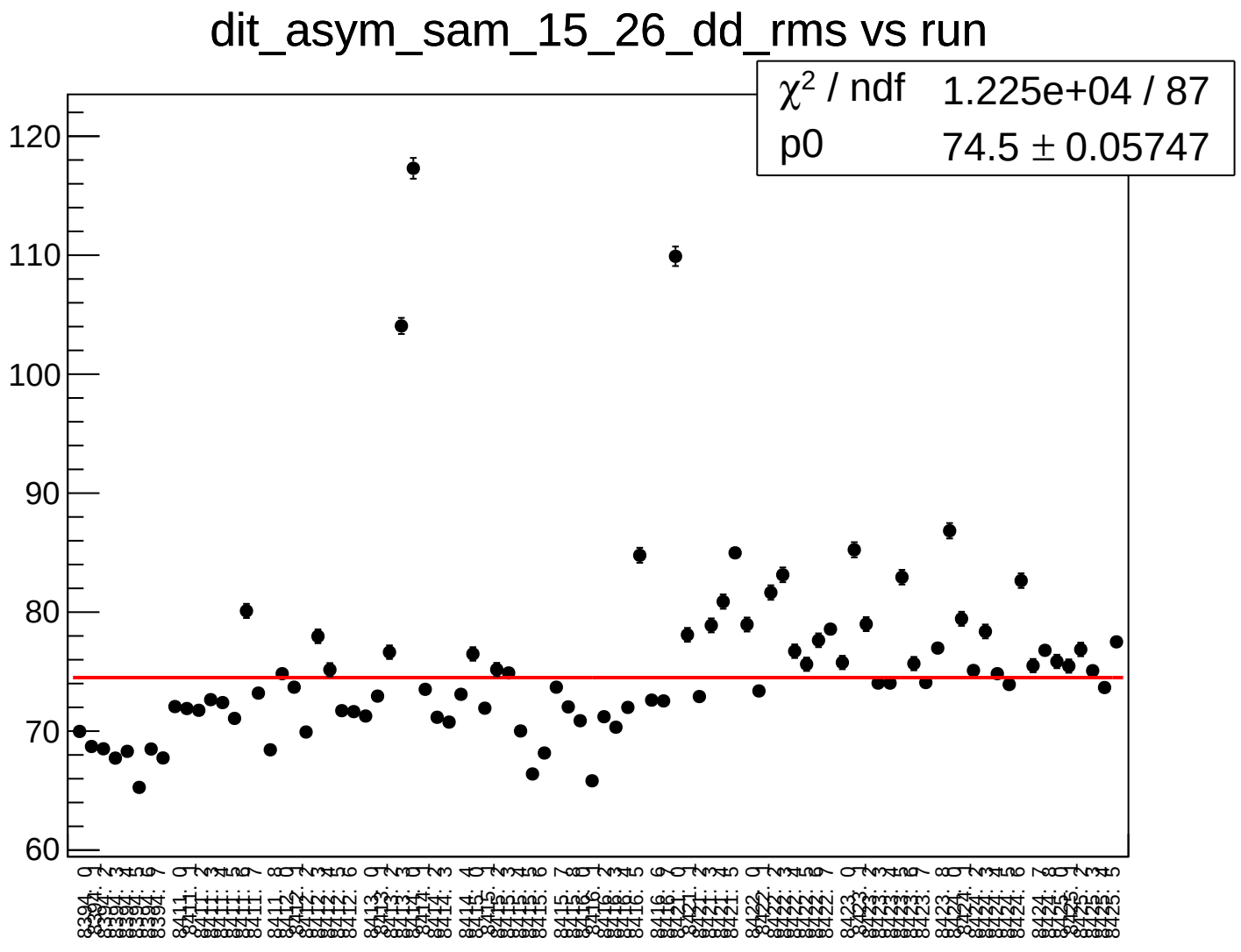

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.658e+04 / 87
p0 67.74 ± 0.05232
100
90
80
70
60

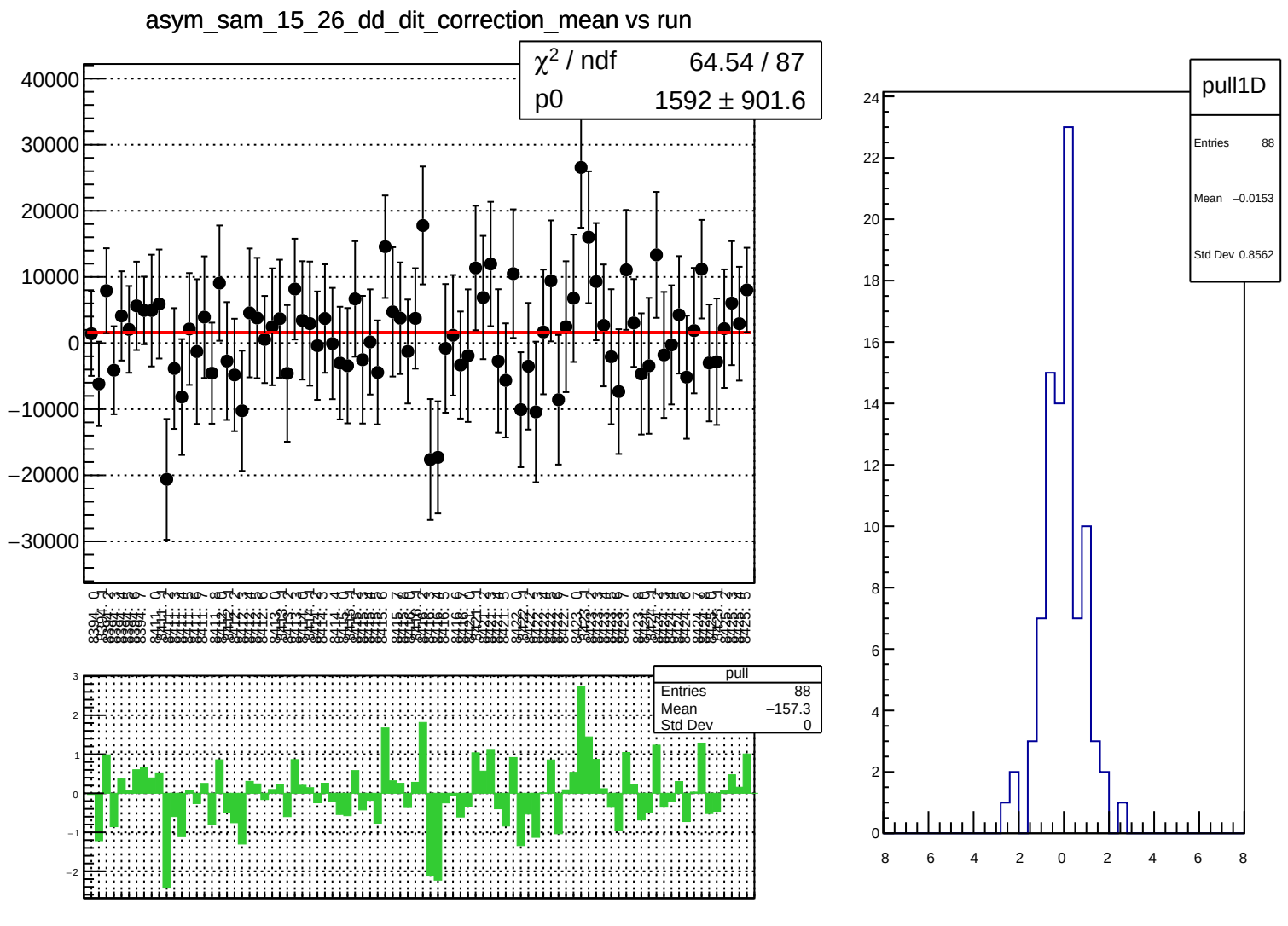

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 64.51 / 87
p0 1717 ± 898.6
pull
Entries 88
Mean −139.5
Std Dev 0
pull1D
Entries 88
Mean −0.01623
Std Dev 0.856

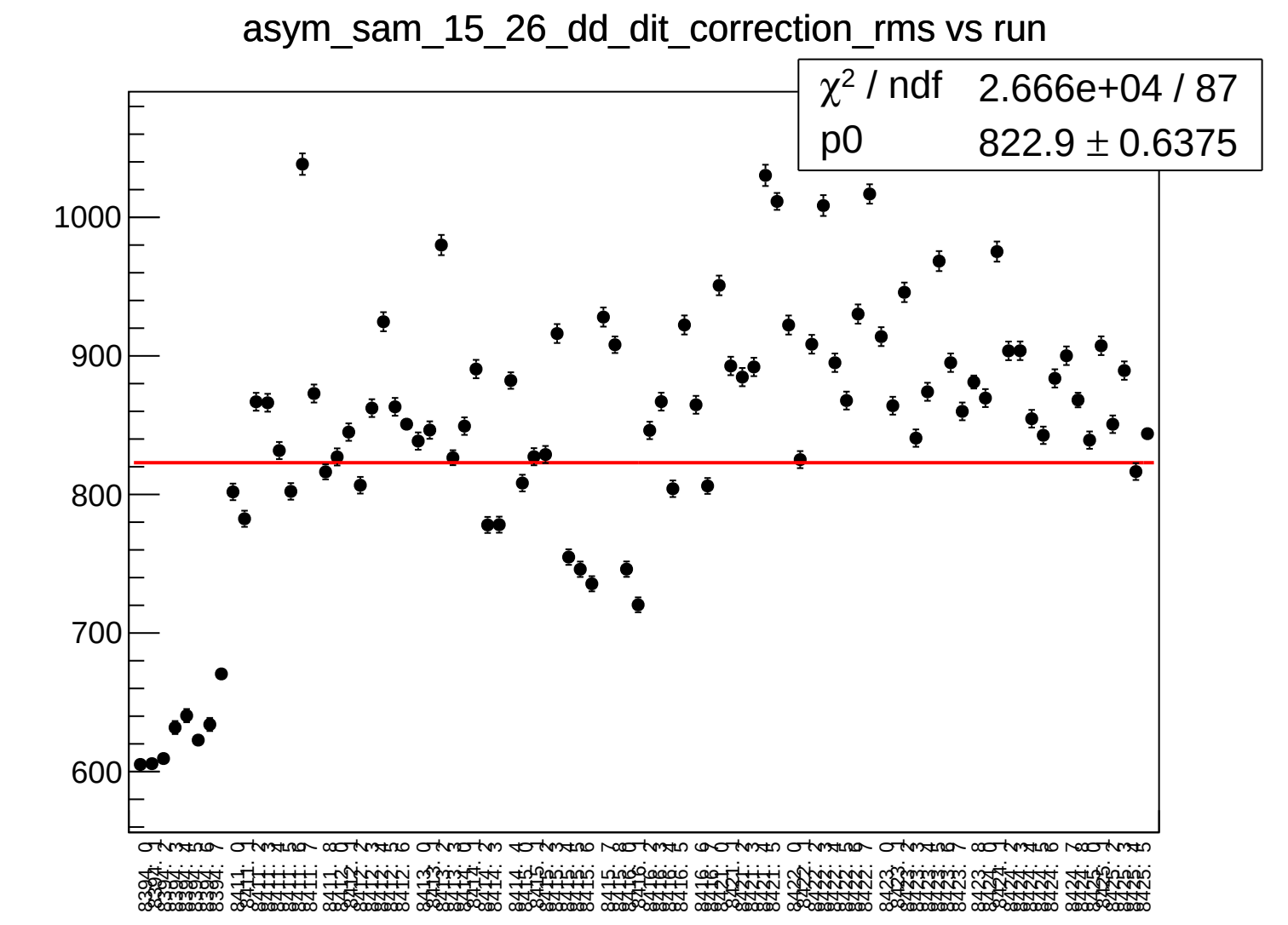

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.323e+04 / 87
p0 821.1 ± 0.6354
1000
900
800
700
600

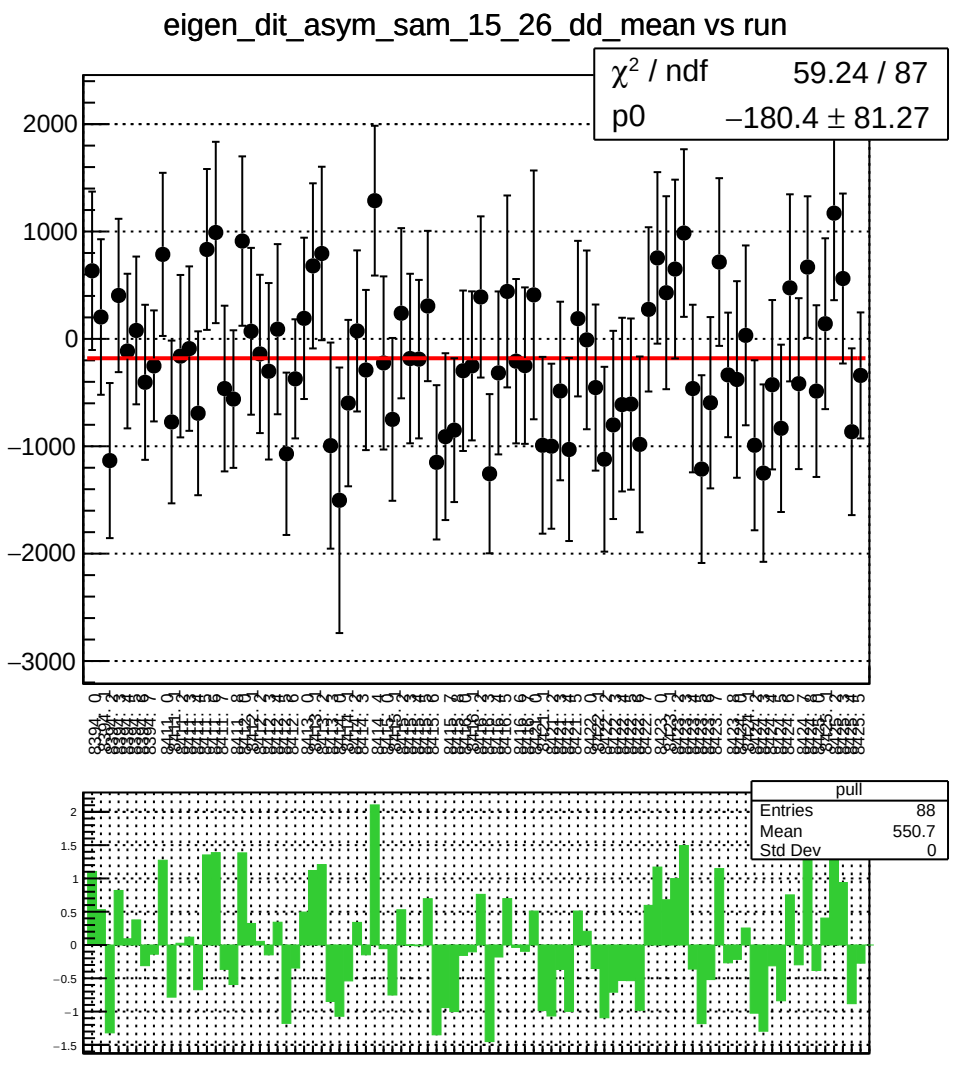

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 59.24 / 87
p0 −180.4 ± 81.27
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 550.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

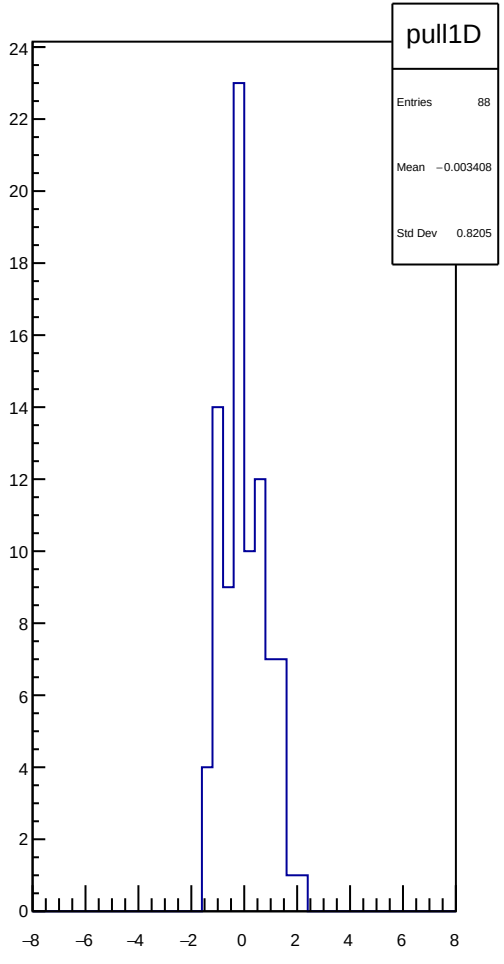

pull1D
Entries 88
Mean −0.003407
Std Dev 0.8205
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

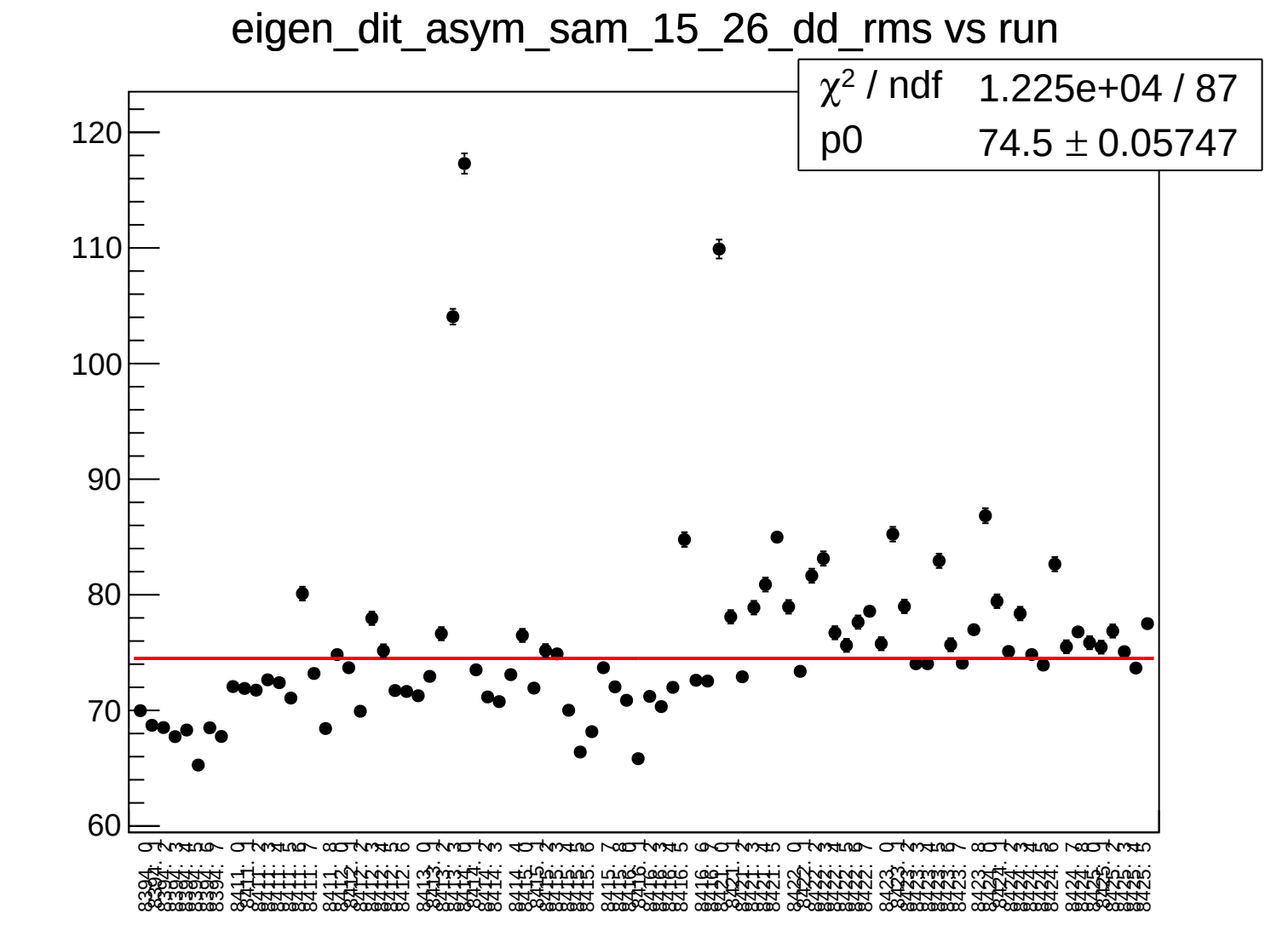

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.225e+04 / 87
p0 74.5 ± 0.05747
120
110
100
90
80
70
60

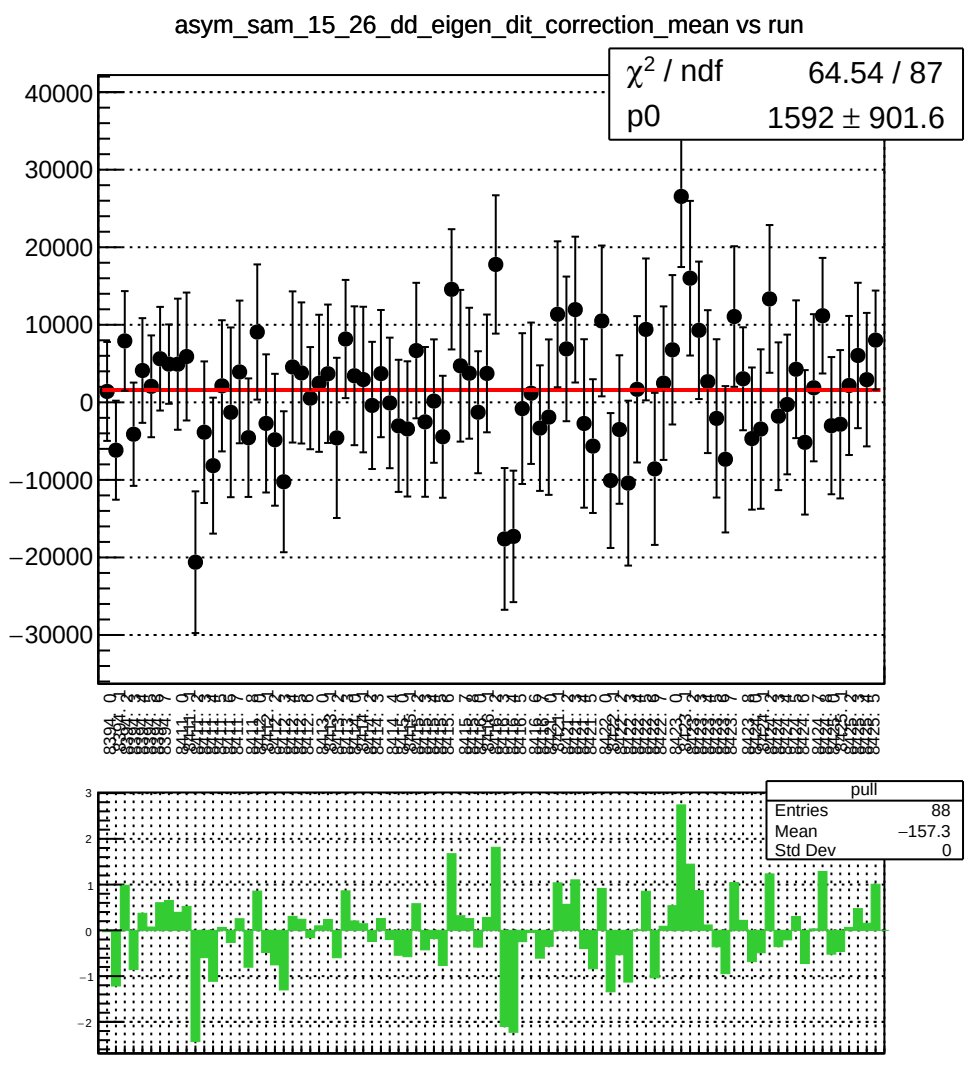

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 64.54 / 87
p0 1592 ± 901.6
pull
Entries 88
Mean −157.3
Std Dev 0
pull1D
Entries 88
Mean −0.0153
Std Dev 0.8562

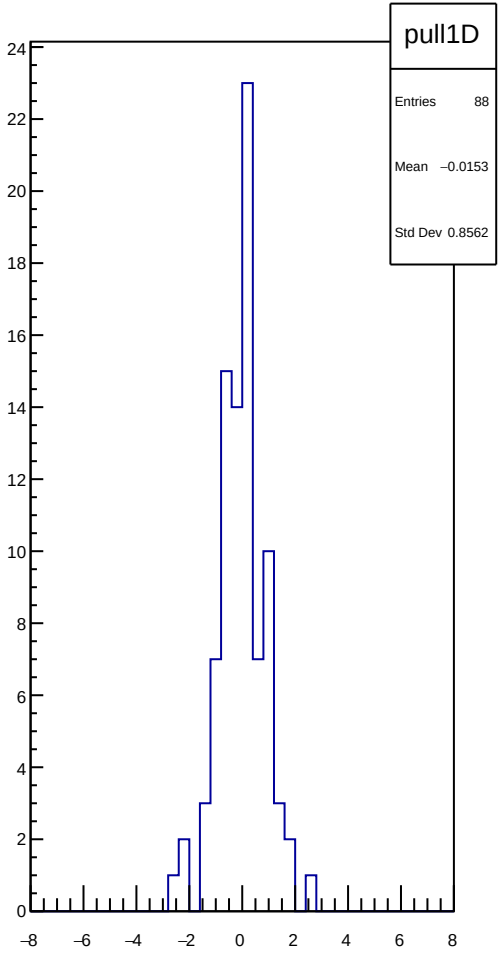

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 2.666e+04 / 87
p0 822.9 ± 0.6375
1000
900
800
700
600

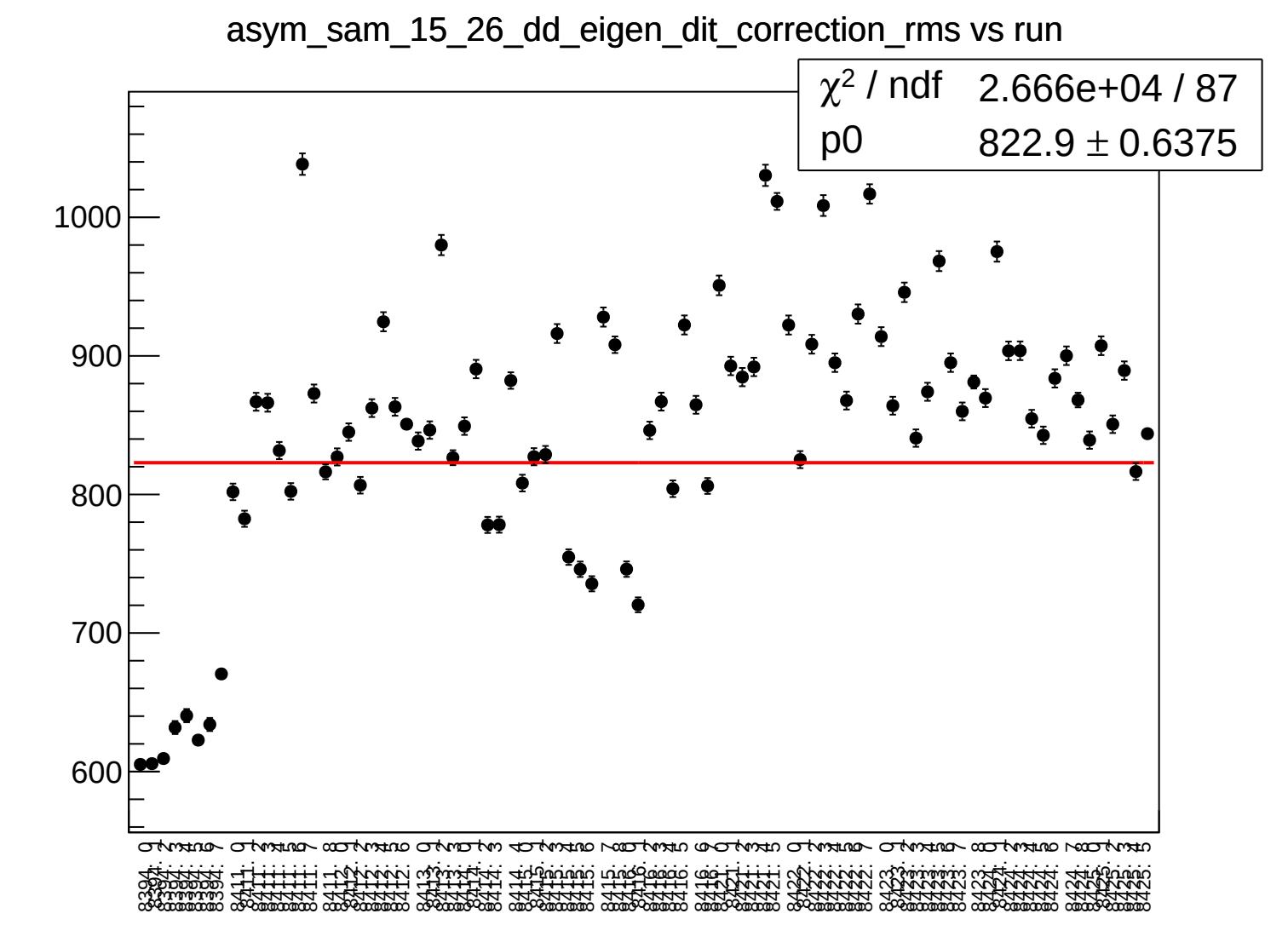

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 59.24 / 87
p0 −180.4 ± 81.27
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 550.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

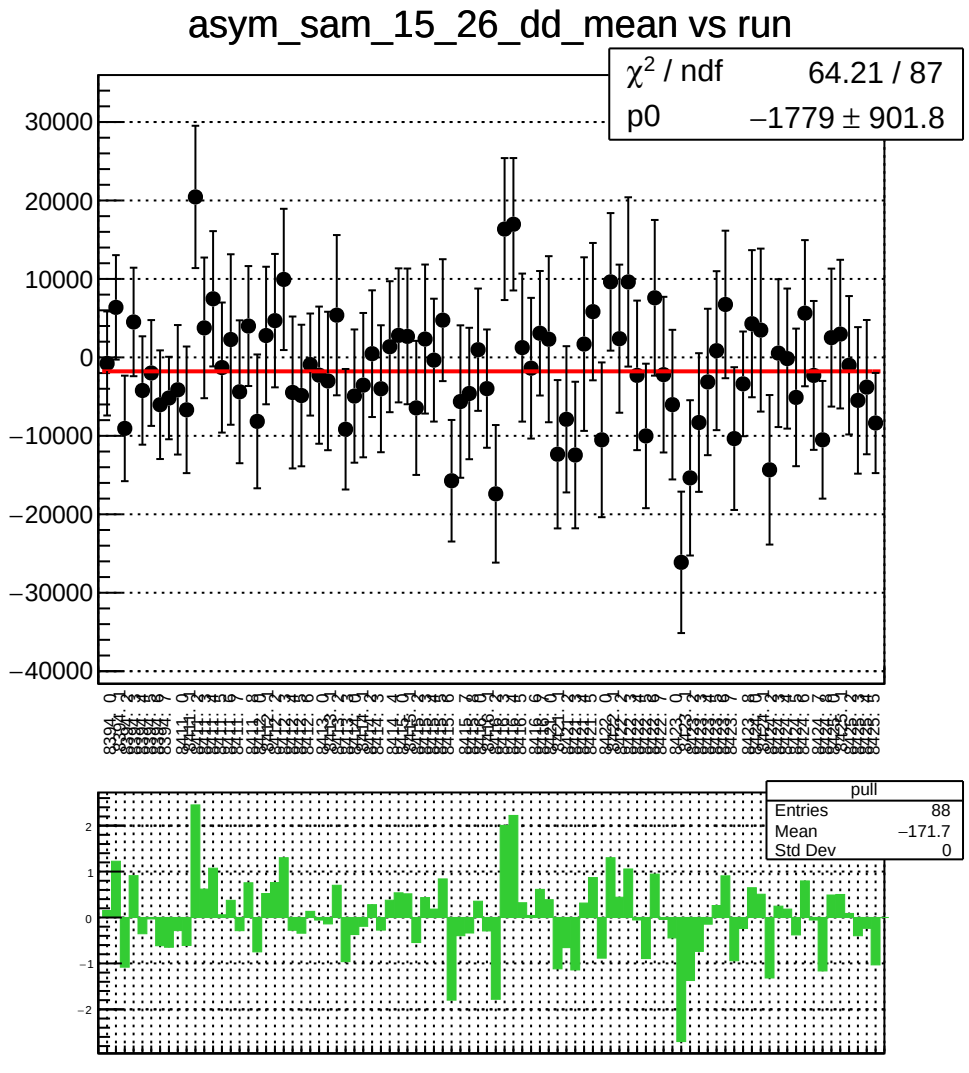

pull1D
Entries 88
Mean −0.003408
Std Dev 0.8205
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

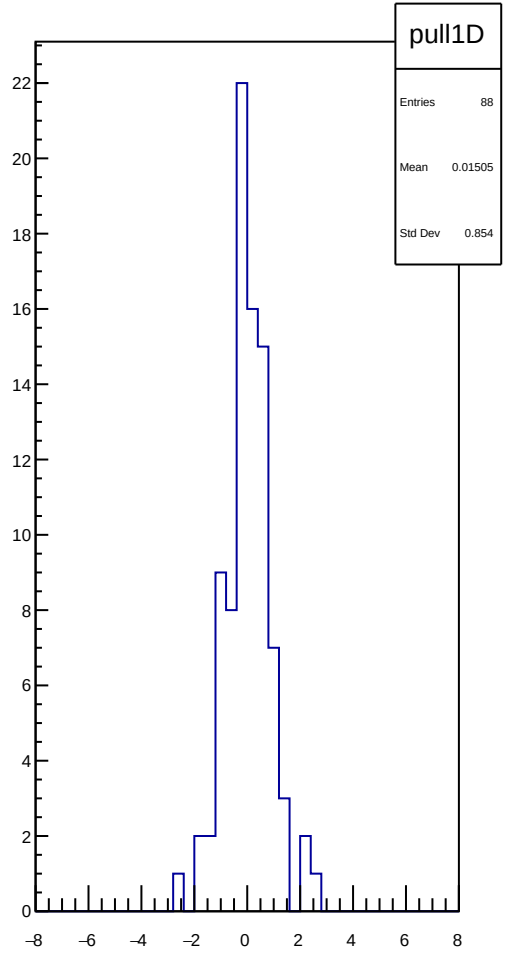

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.225e+04 / 87
p0 74.5 ± 0.05747
120
110
100
90
80
70
60

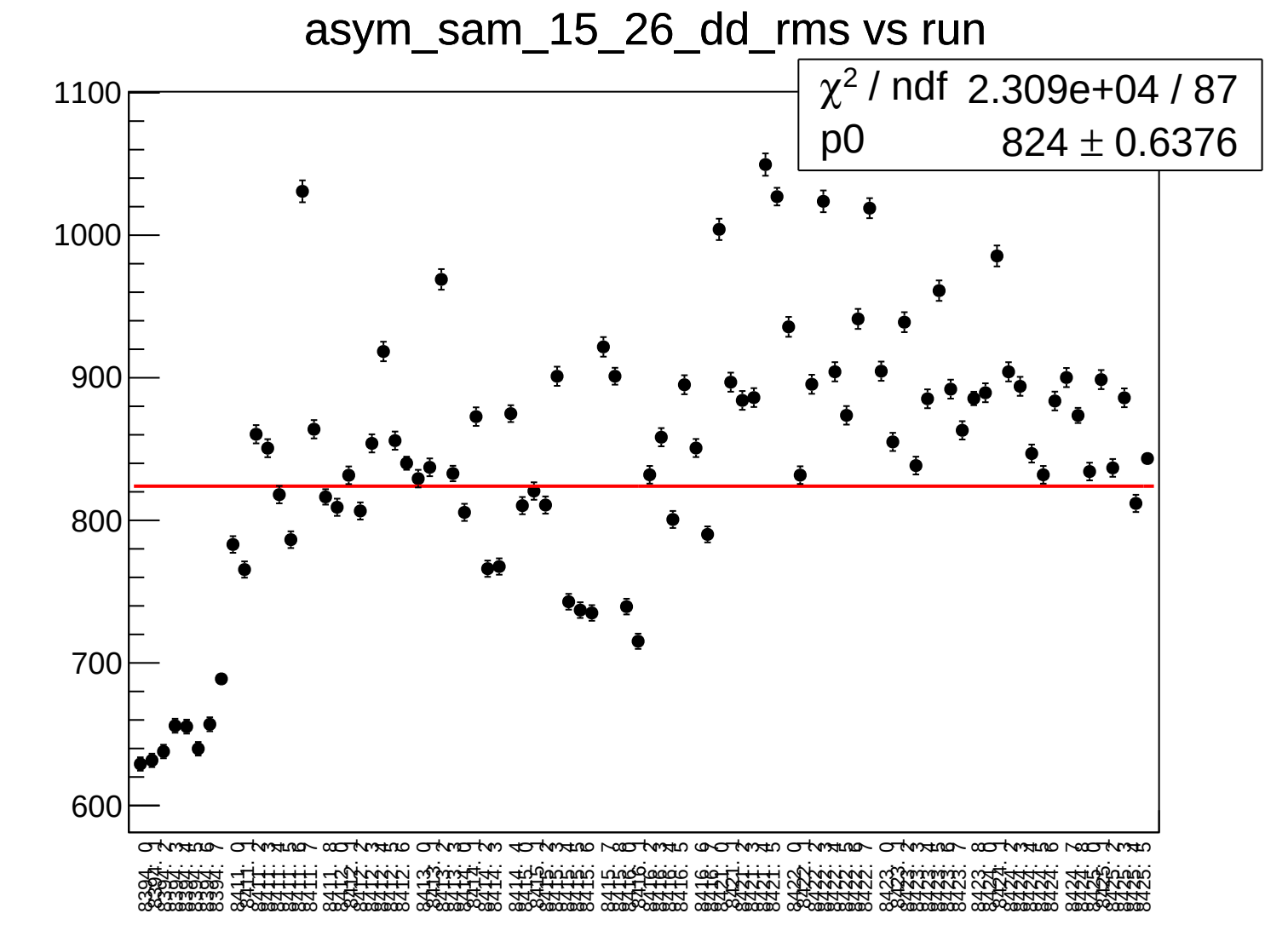

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 64.54 / 87
p0 1592 ± 901.6
pull
Entries 88
Mean −157.3
Std Dev 0

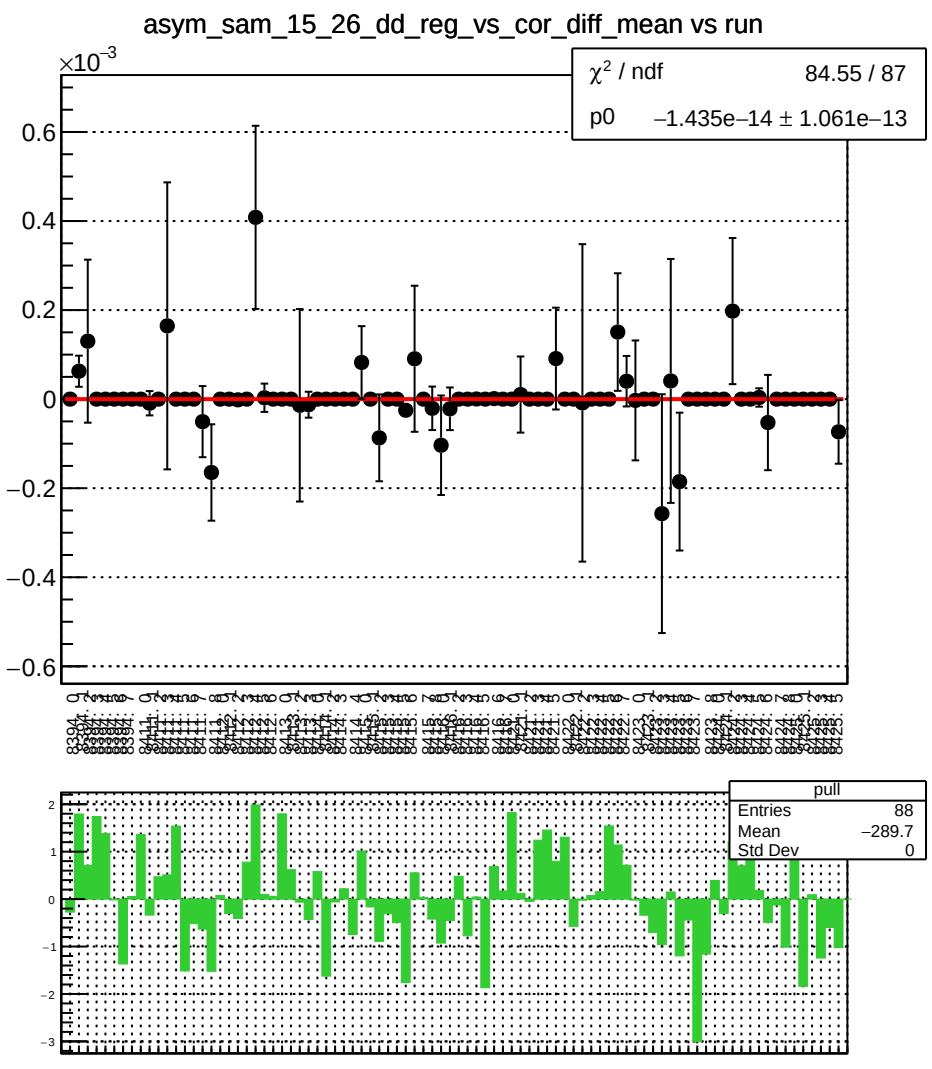

pull1D
Entries 88
Mean −0.0153
Std Dev 0.8562

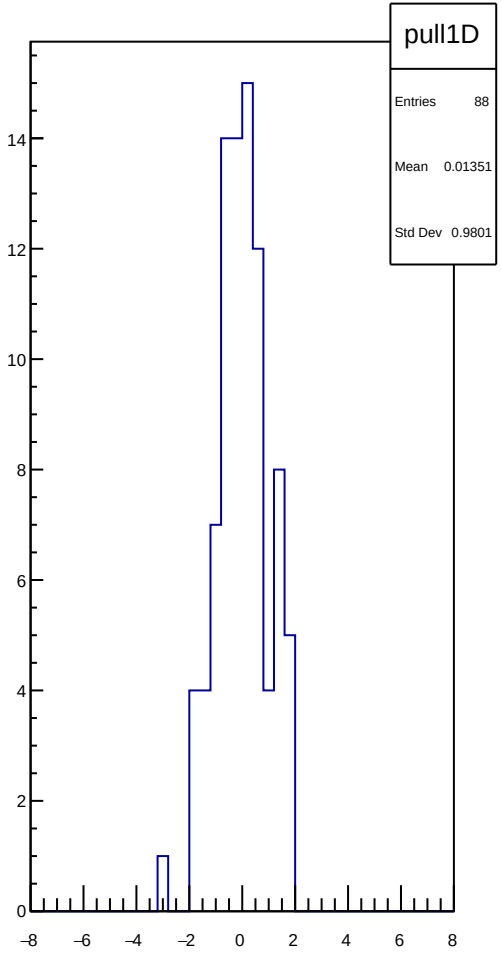

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.666e+04 / 87
p0 822.9 ± 0.6375
1000
900
800
700
600

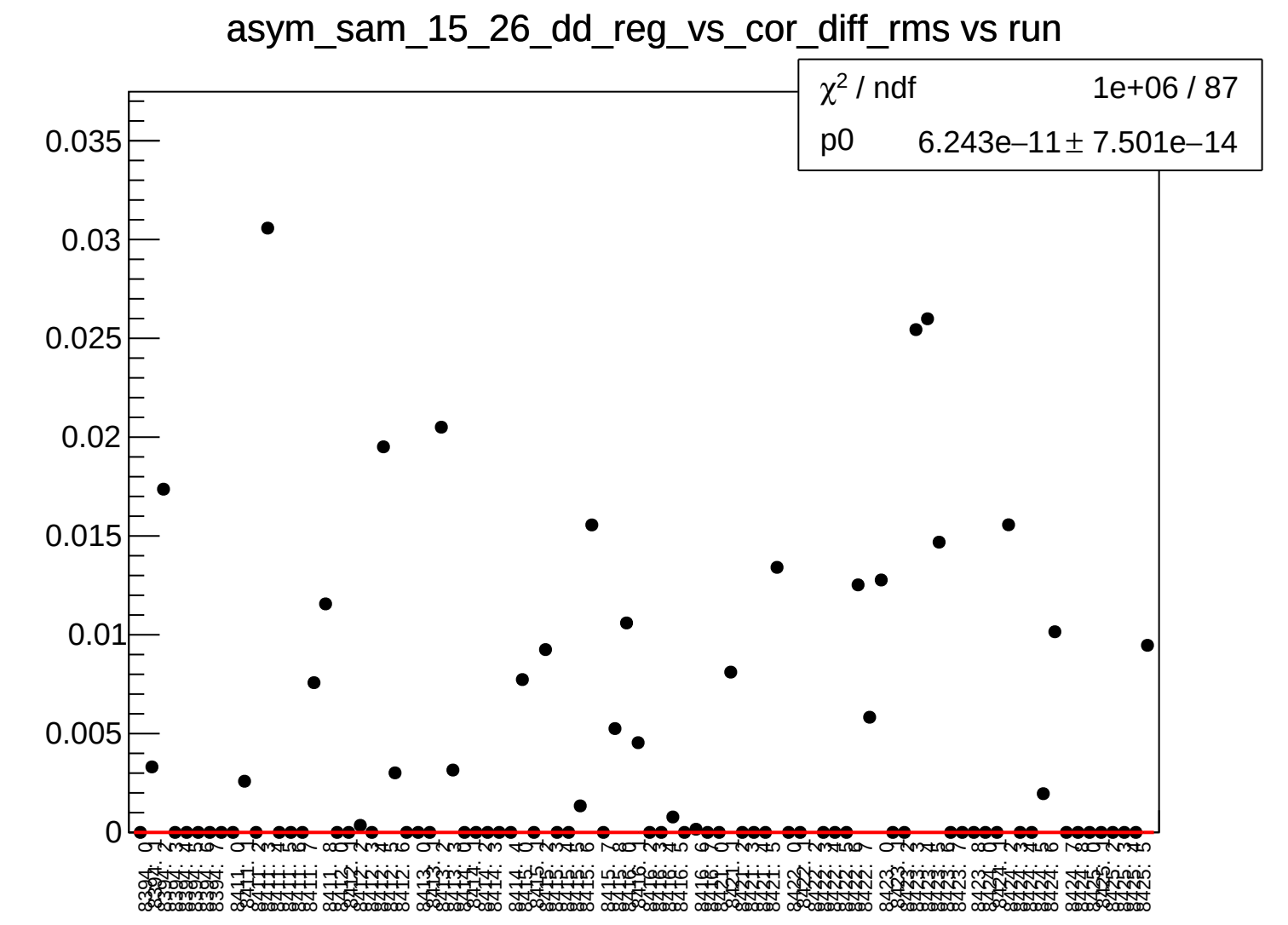

asym_sam_15_26_dd_mean vs run
χ² / ndf 64.21 / 87
p0 −1779 ± 901.8
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −171.7
Std Dev 0
2
1
0
−1
−2

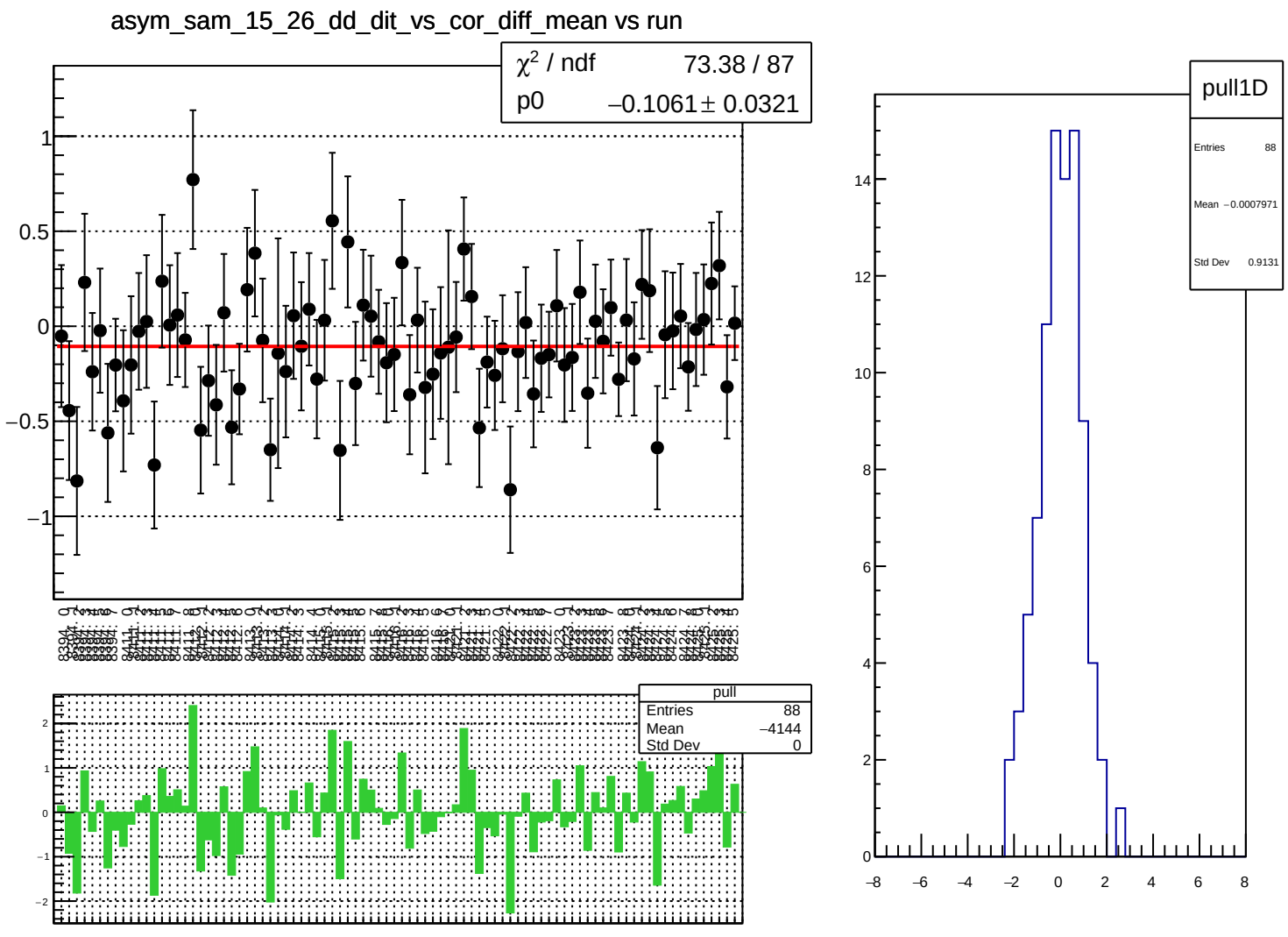

pull1D
Entries 88
Mean 0.01505
Std Dev 0.854
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

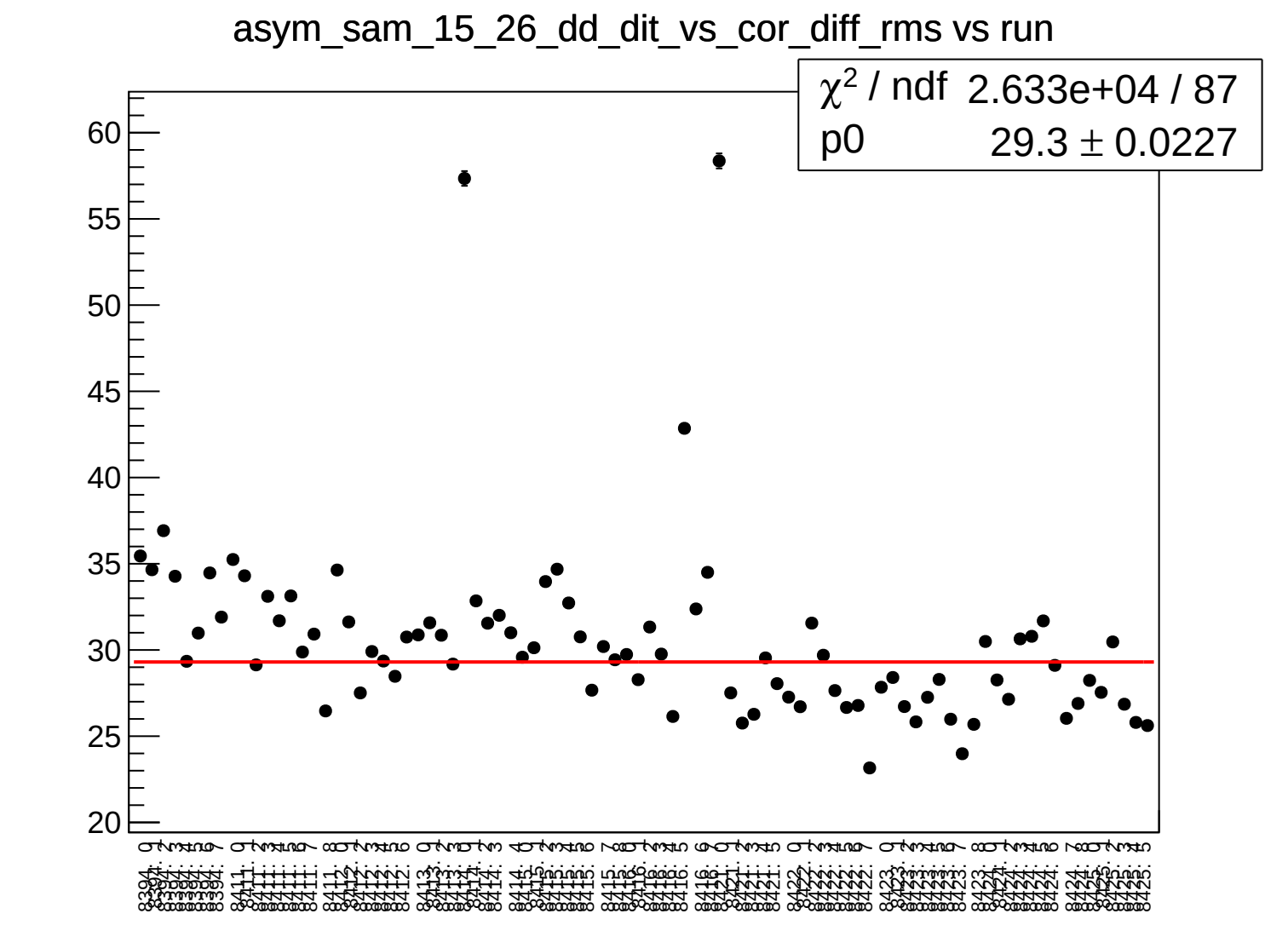

asym_sam_15_26_dd_rms vs run
χ² / ndf 2.309e+04 / 87
p0 824 ± 0.6376
1100
1000
900
800
700
600

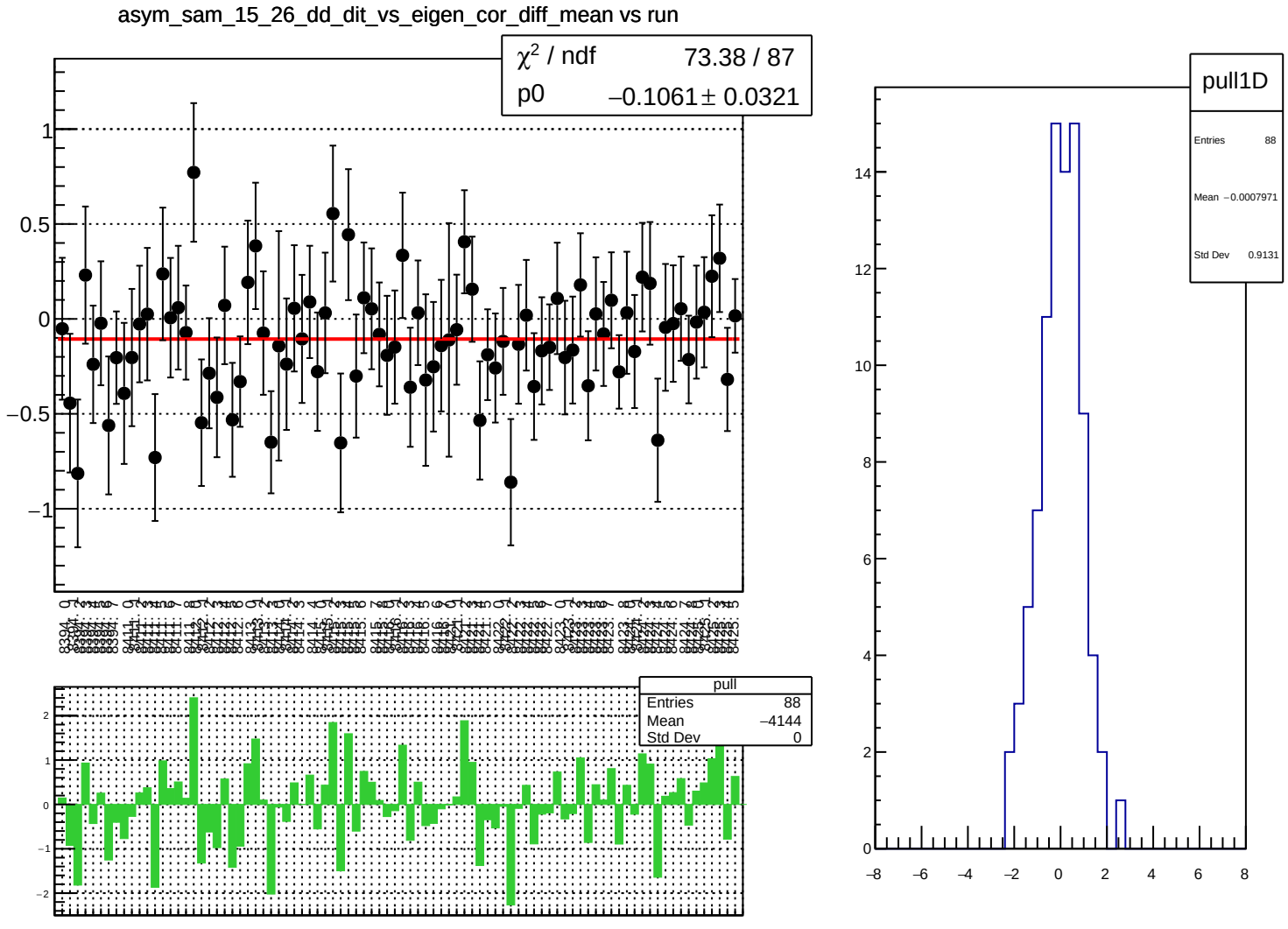

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 84.55 / 87
p0 −1.435e−14 ± 1.061e−13
pull
Entries 88
Mean −289.7
Std Dev 0

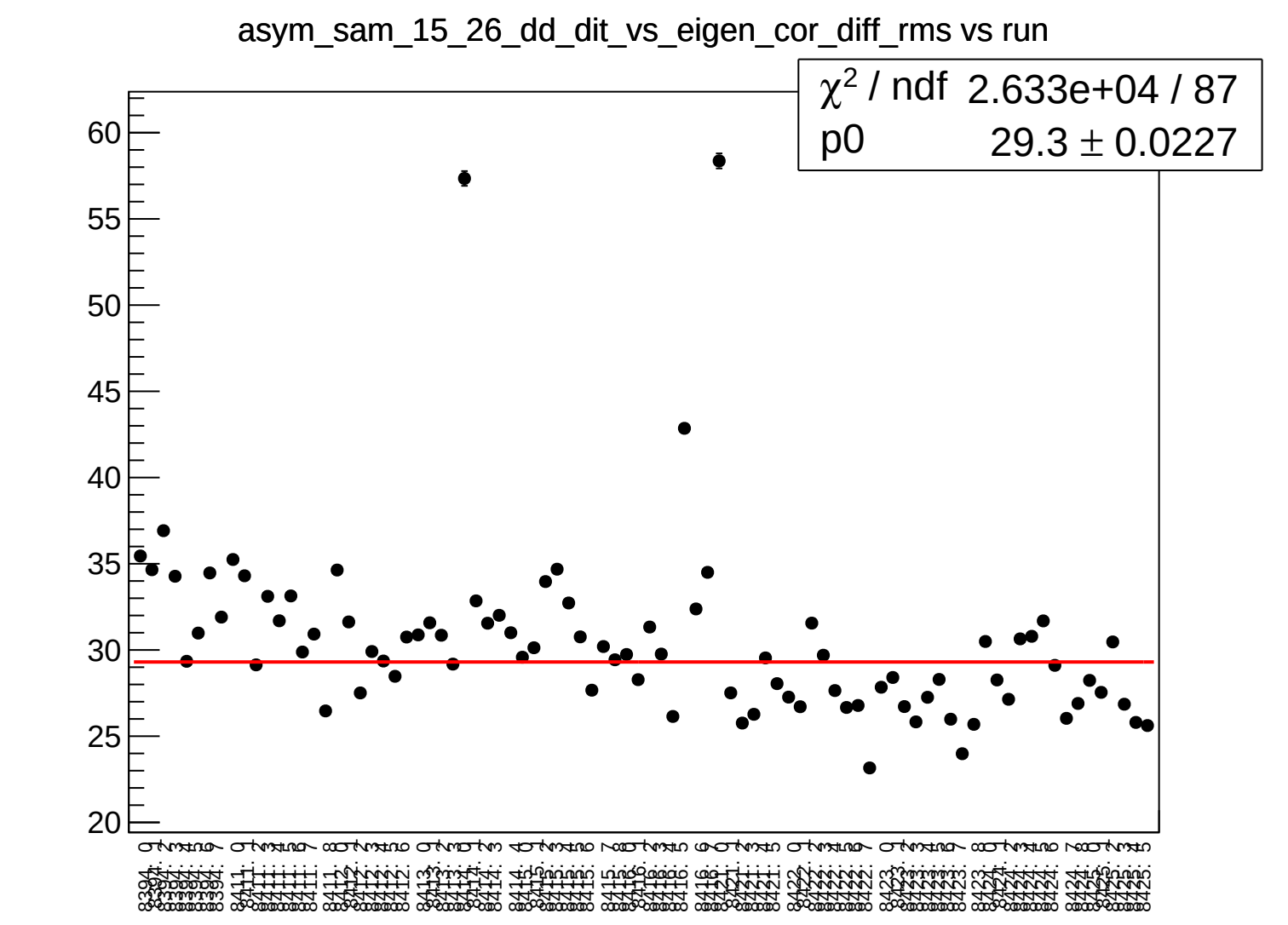

pull1D
Entries 88
Mean 0.01351
Std Dev 0.9801

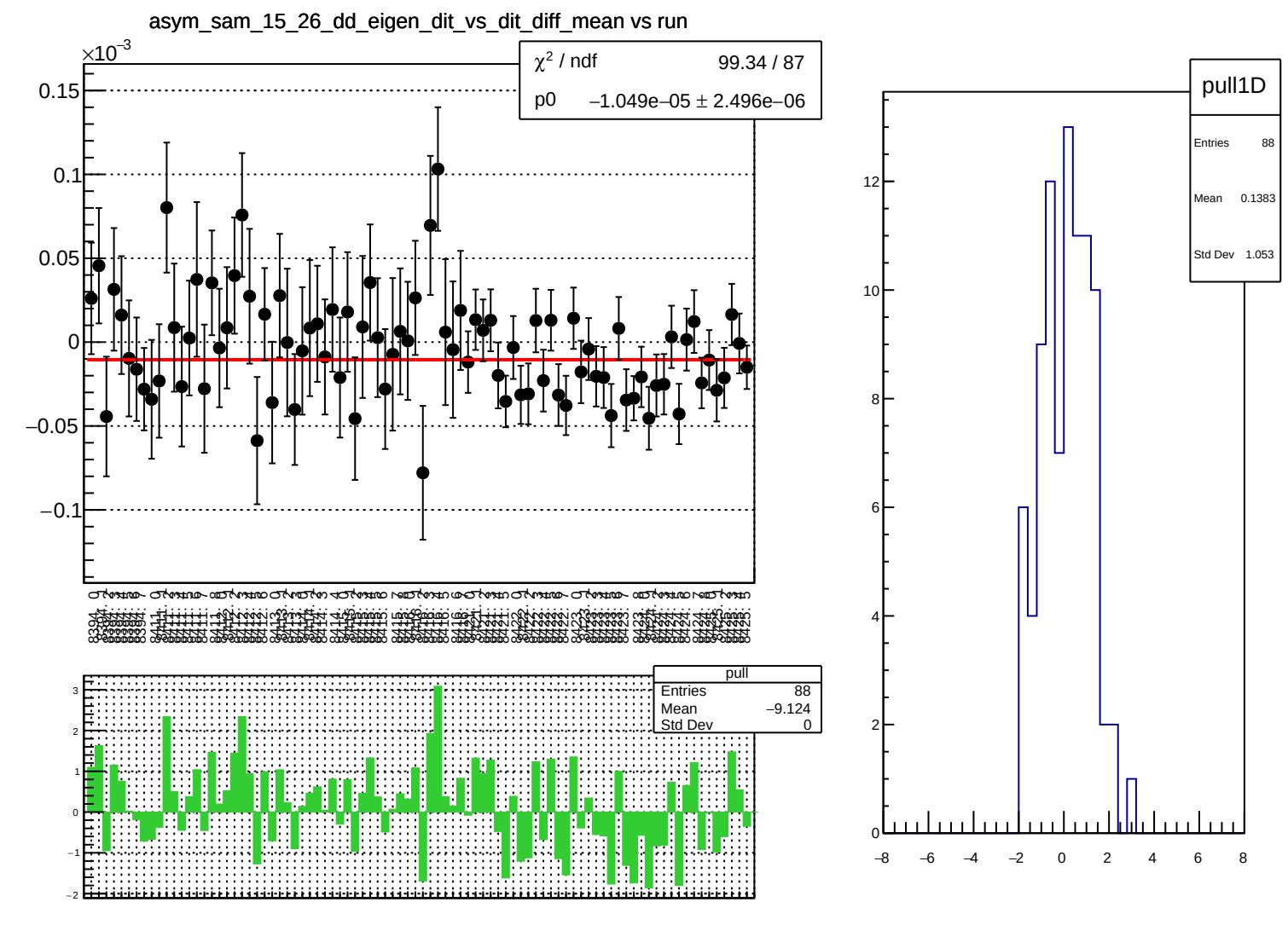

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1e+06 / 87
p0 6.243e−11 ± 7.501e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

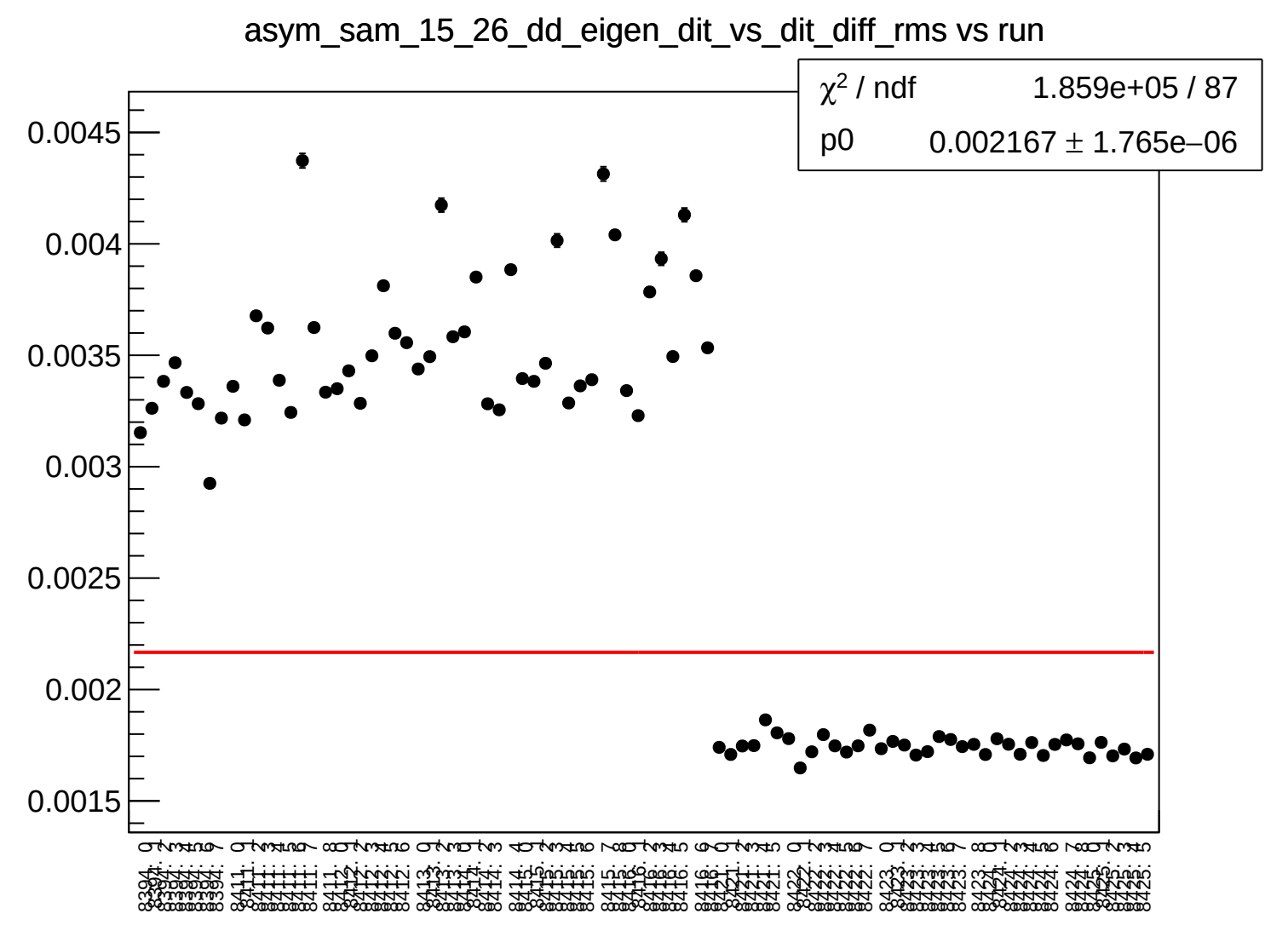

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 73.38 / 87
p0 −0.1061 ± 0.0321
pull
Entries 88
Mean −4144
Std Dev 0
pull1D
Entries 88
Mean −0.0007971
Std Dev 0.9131

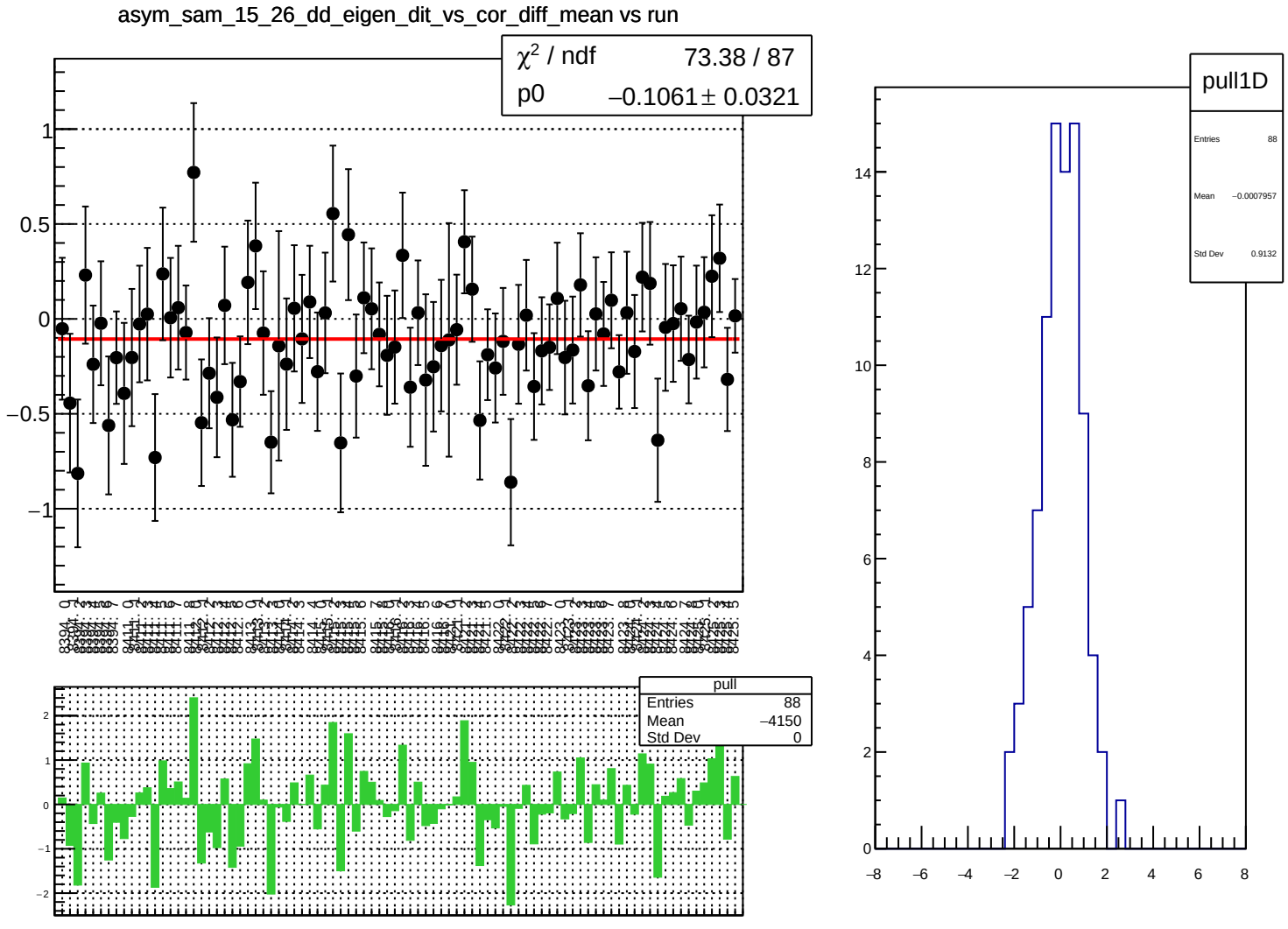

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.633e+04 / 87
p0 29.3 ± 0.0227
60
55
50
45
40
35
30
25
20

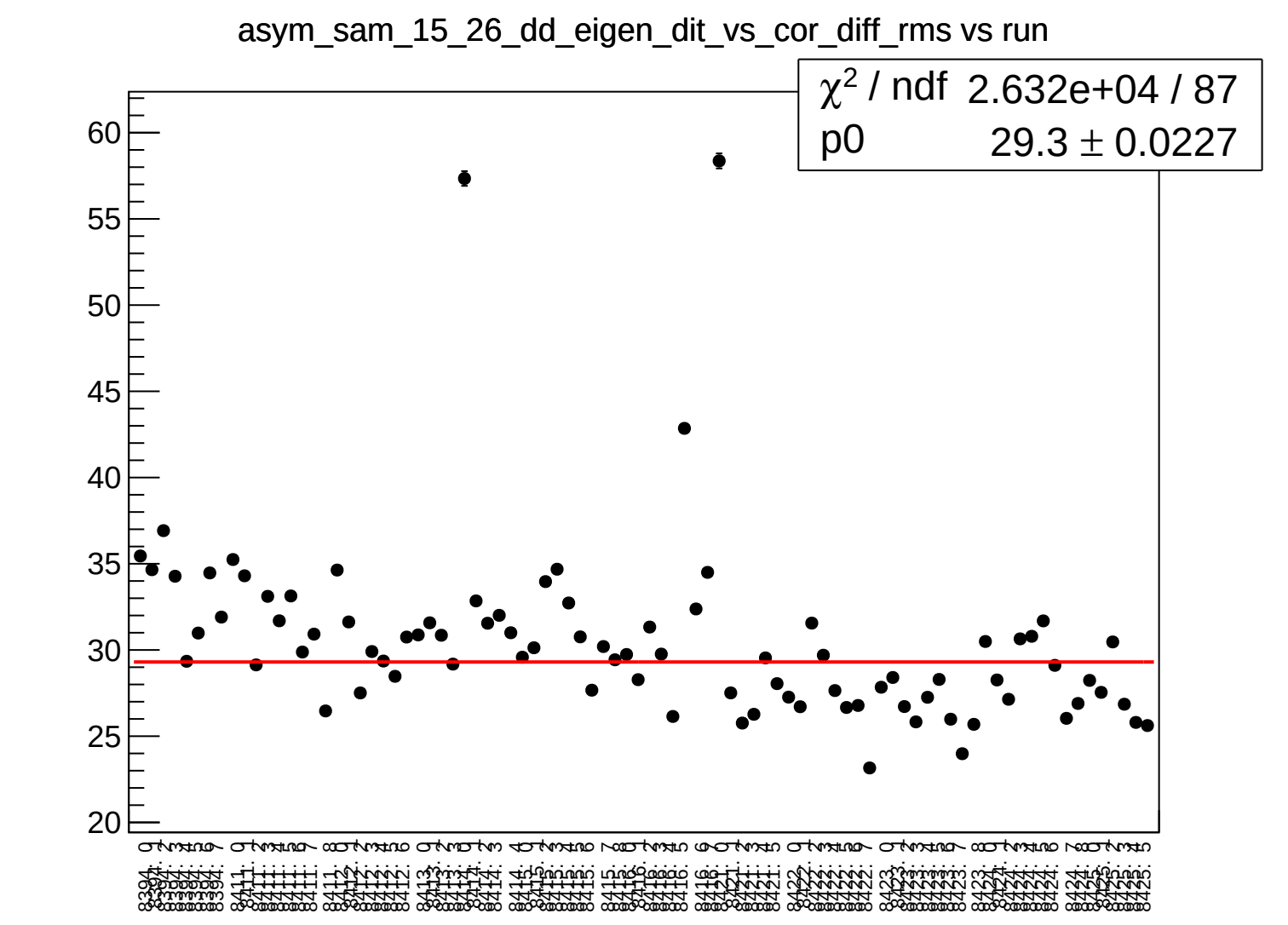

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.38 / 87
p0 −0.1061 ± 0.0321
pull
Entries 88
Mean −4144
Std Dev 0
pull1D
Entries 88
Mean −0.0007971
Std Dev 0.9131

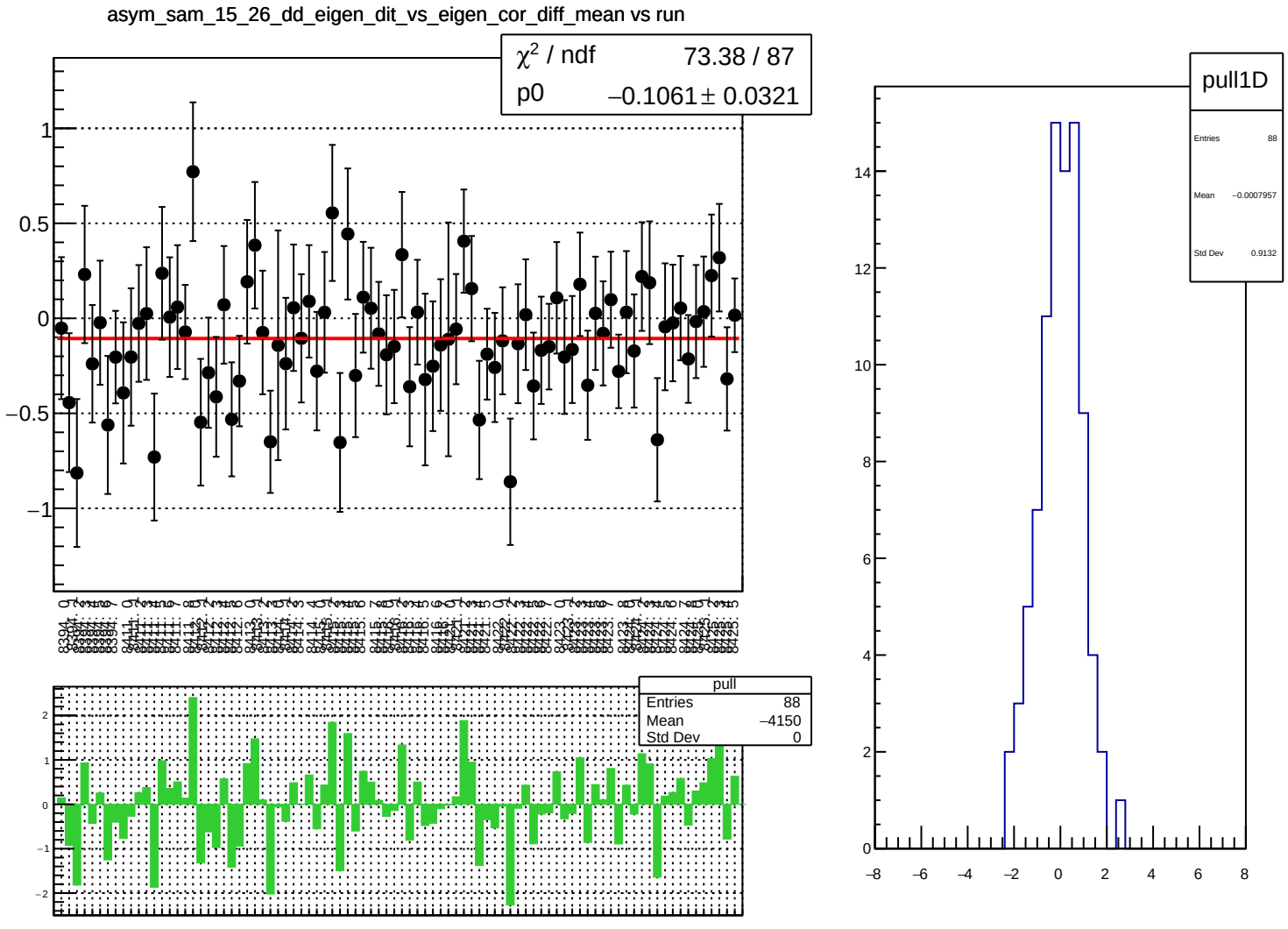

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.633e+04 / 87
p0 29.3 ± 0.0227
60
55
50
45
40
35
30
25
20

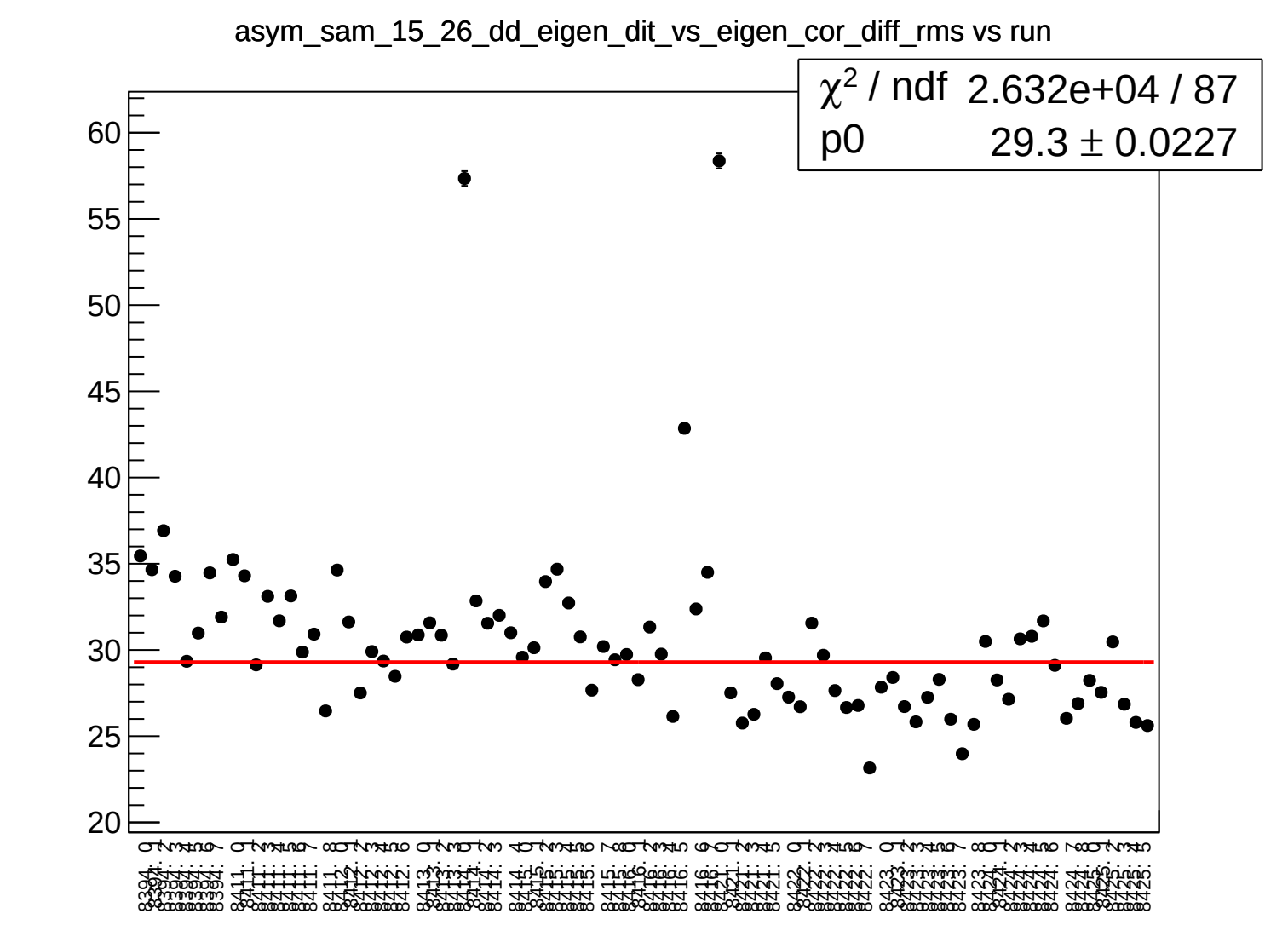

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 99.34 / 87
p0 −1.049e−05 ± 2.496e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean −9.124
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.1383
Std Dev 1.053
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

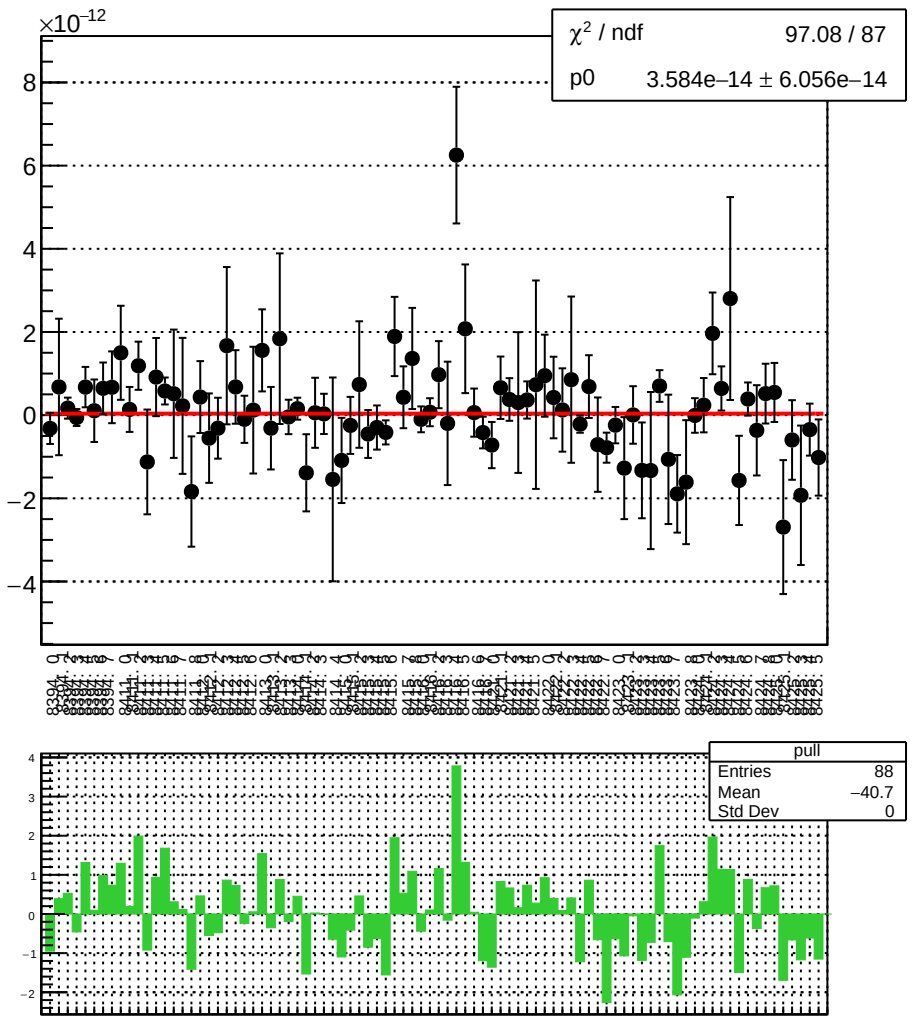

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.859e+05 / 87
p0 0.002167 ± 1.765e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

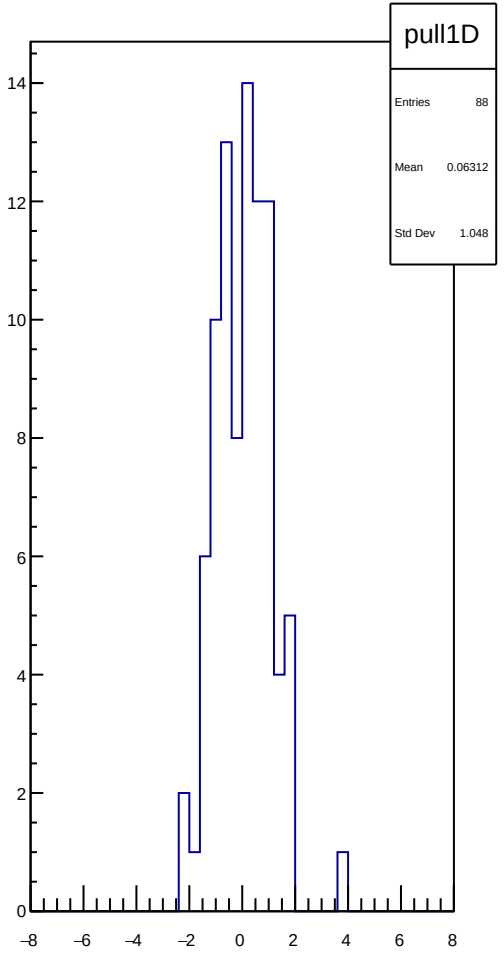

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.38 / 87
p0 −0.1061 ± 0.0321
pull
Entries 88
Mean −4150
Std Dev 0
pull1D
Entries 88
Mean −0.0007957
Std Dev 0.9132

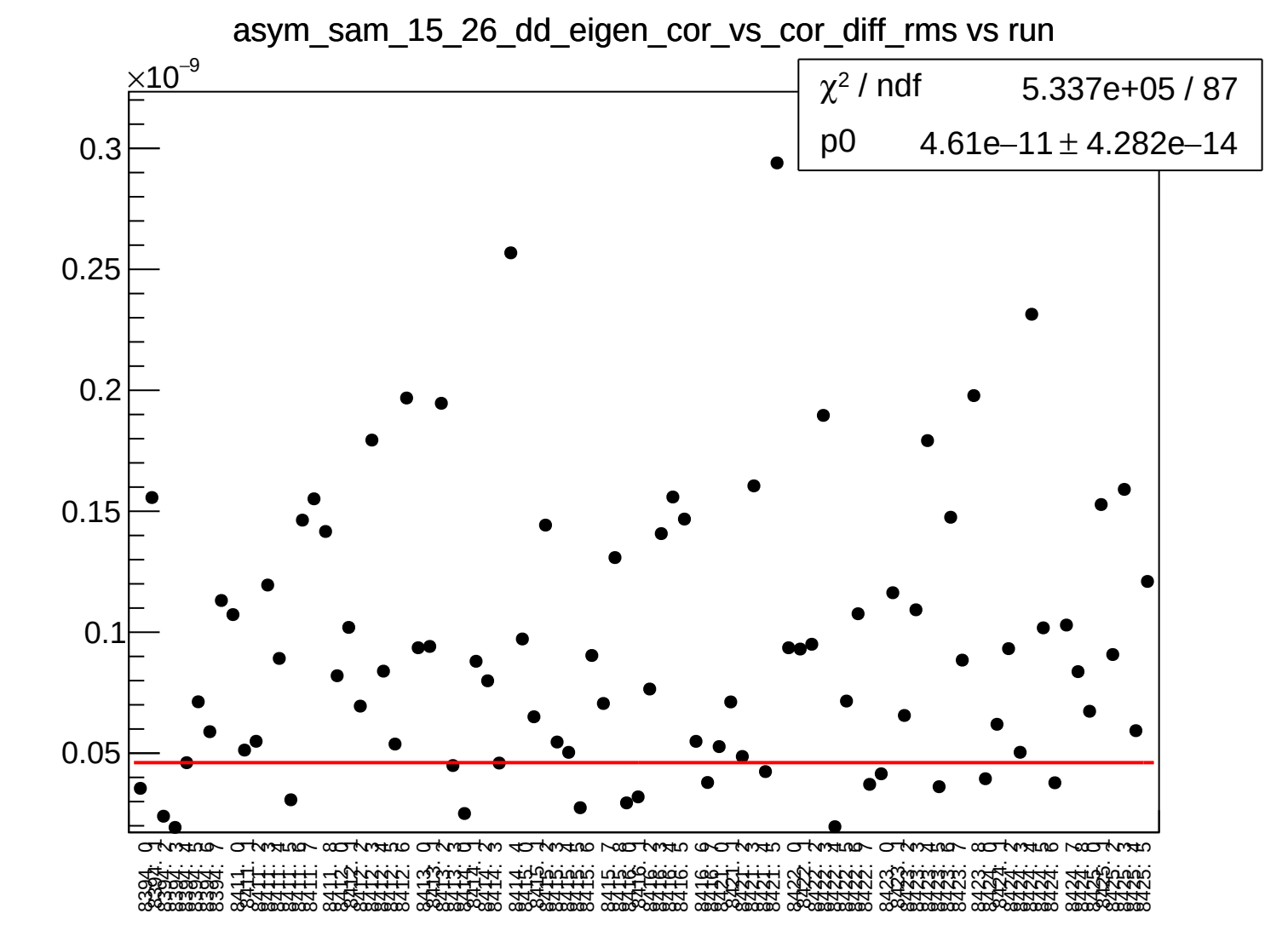

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.632e+04 / 87
p0 29.3 ± 0.0227
60
55
50
45
40
35
30
25
20

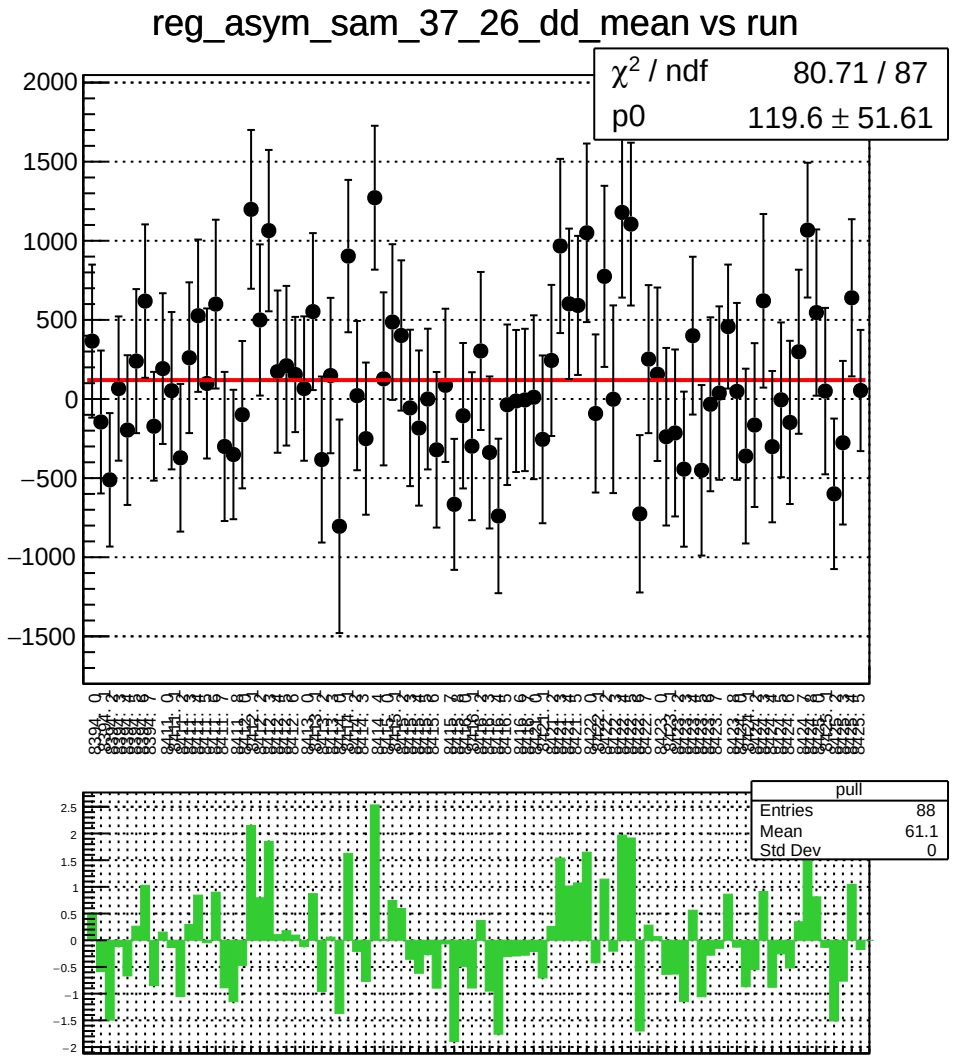

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.38 / 87
p0 −0.1061 ± 0.0321
pull
Entries 88
Mean −4150
Std Dev 0
pull1D
Entries 88
Mean −0.0007957
Std Dev 0.9132

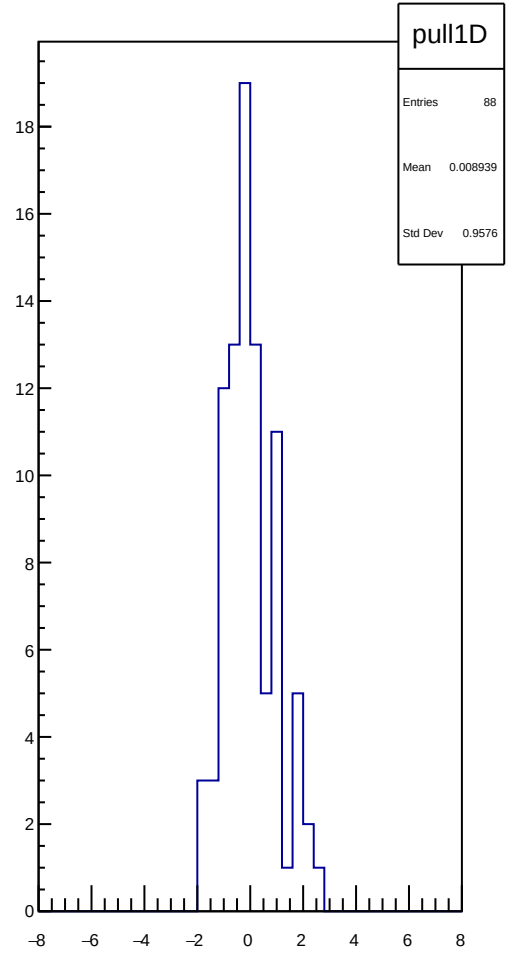

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.632e+04 / 87
p0 29.3 ± 0.0227
60
55
50
45
40
35
30
25
20

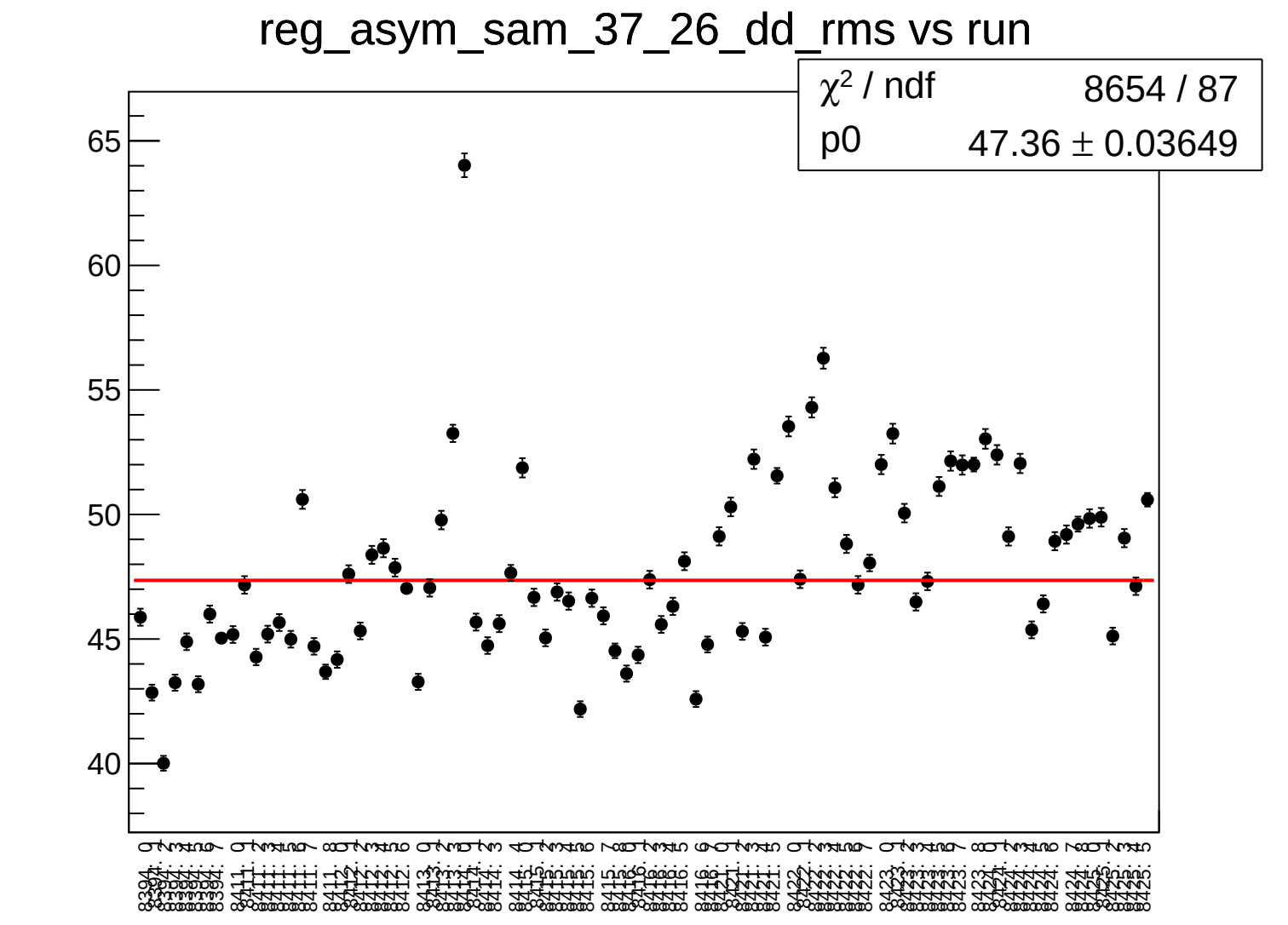

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.08 / 87
p0 3.584e−14 ± 6.056e−14
pull
Entries 88
Mean −40.7
Std Dev 0

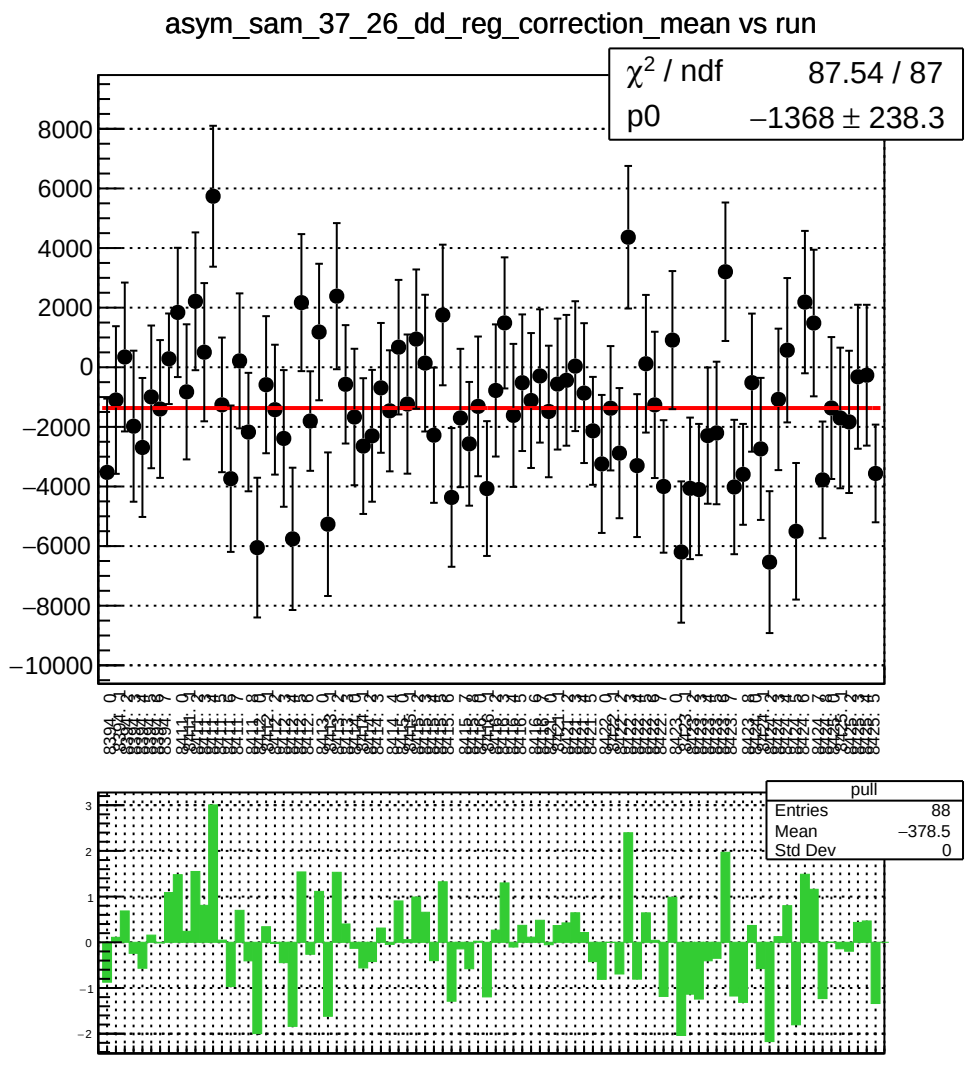

pull1D
Entries 88
Mean 0.06312
Std Dev 1.048

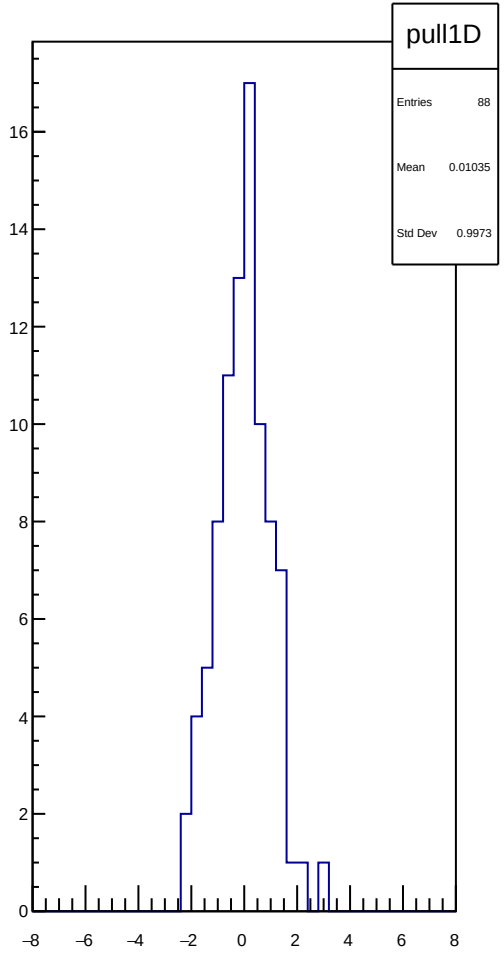

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.337e+05 / 87
p0 4.61e−11 ± 4.282e−14
0.3
0.25
0.2
0.15
0.1
0.05

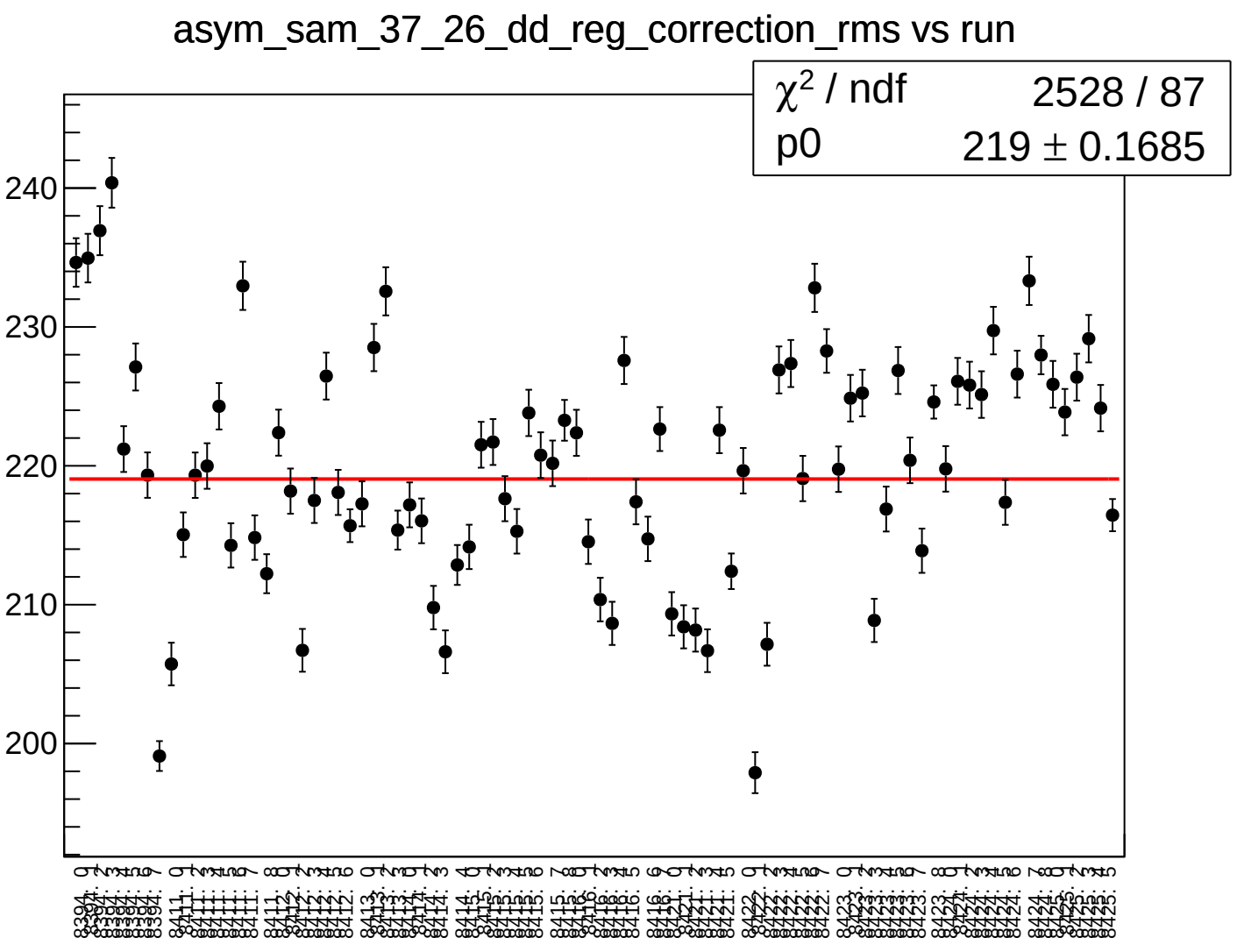

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 80.71 / 87
p0 119.6 ± 51.61
pull
Entries 88
Mean 61.1
Std Dev 0

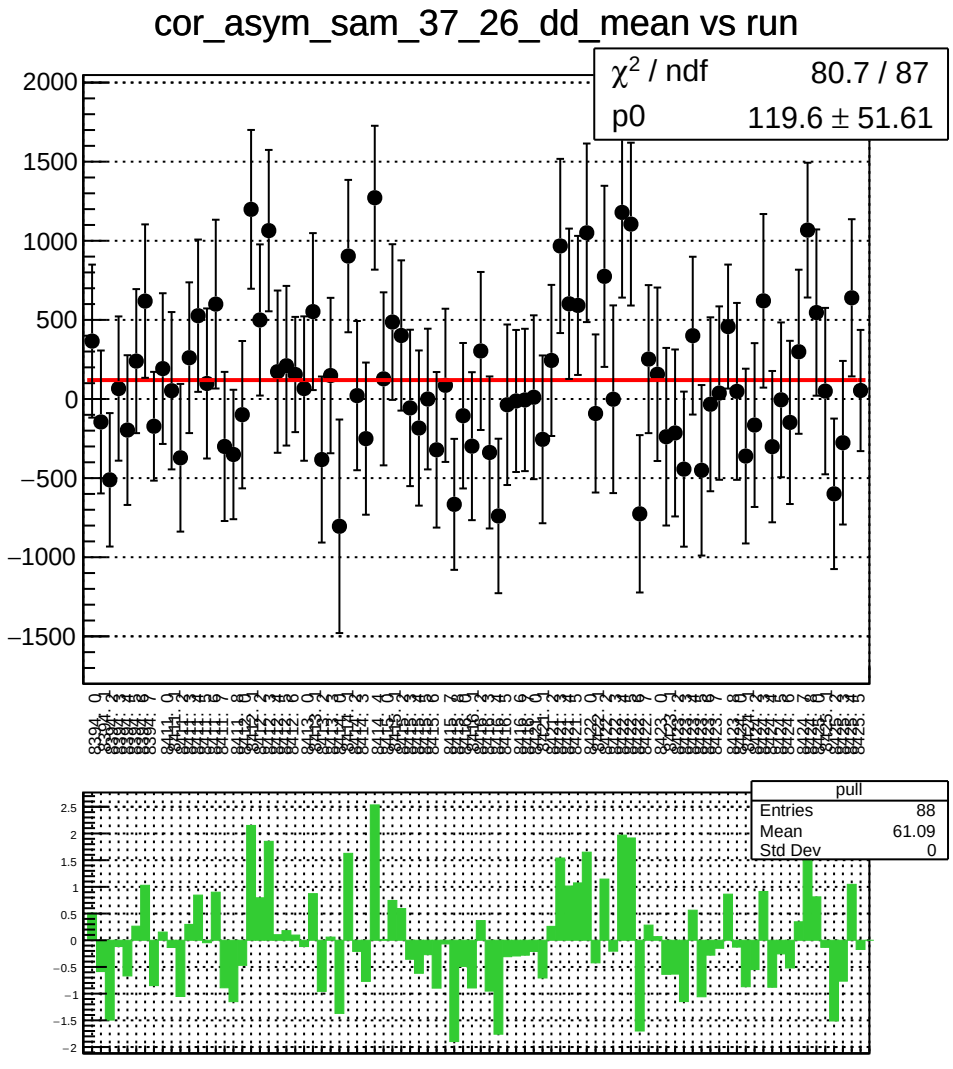

pull1D
Entries 88
Mean 0.008939
Std Dev 0.9576

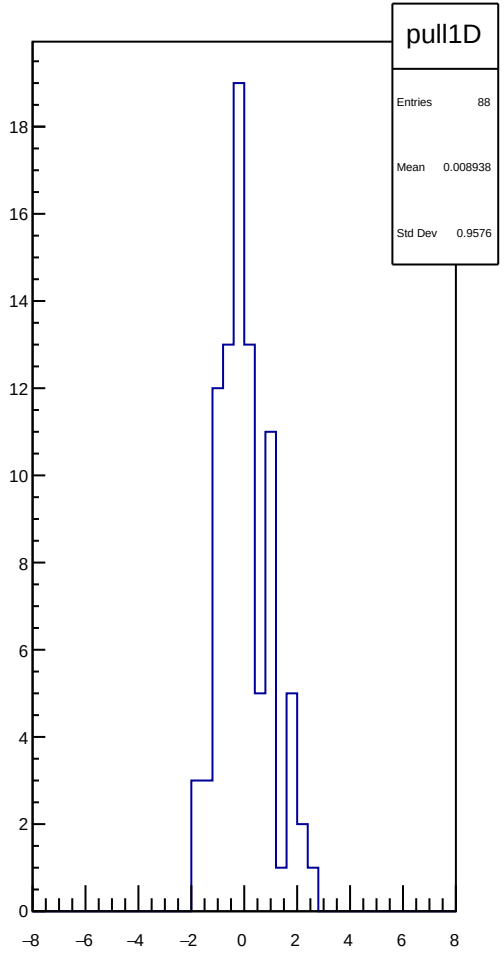

reg_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 8654 / 87
p0 47.36 ± 0.03649
65
60
55
50
45
40

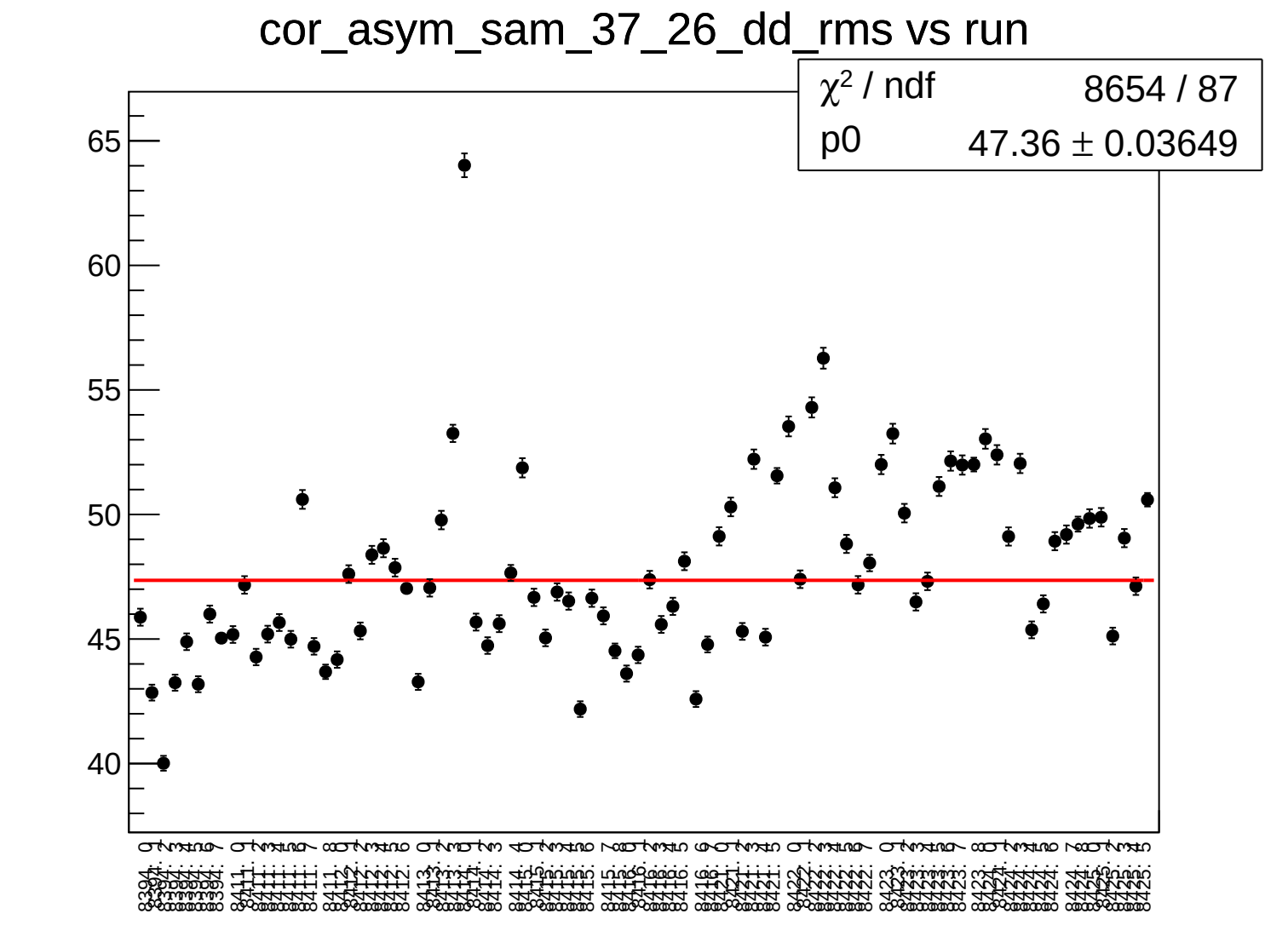

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 87.54 / 87
p0 −1368 ± 238.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 88
Mean −378.5
Std Dev 0
3
2
1
0
−1
−2

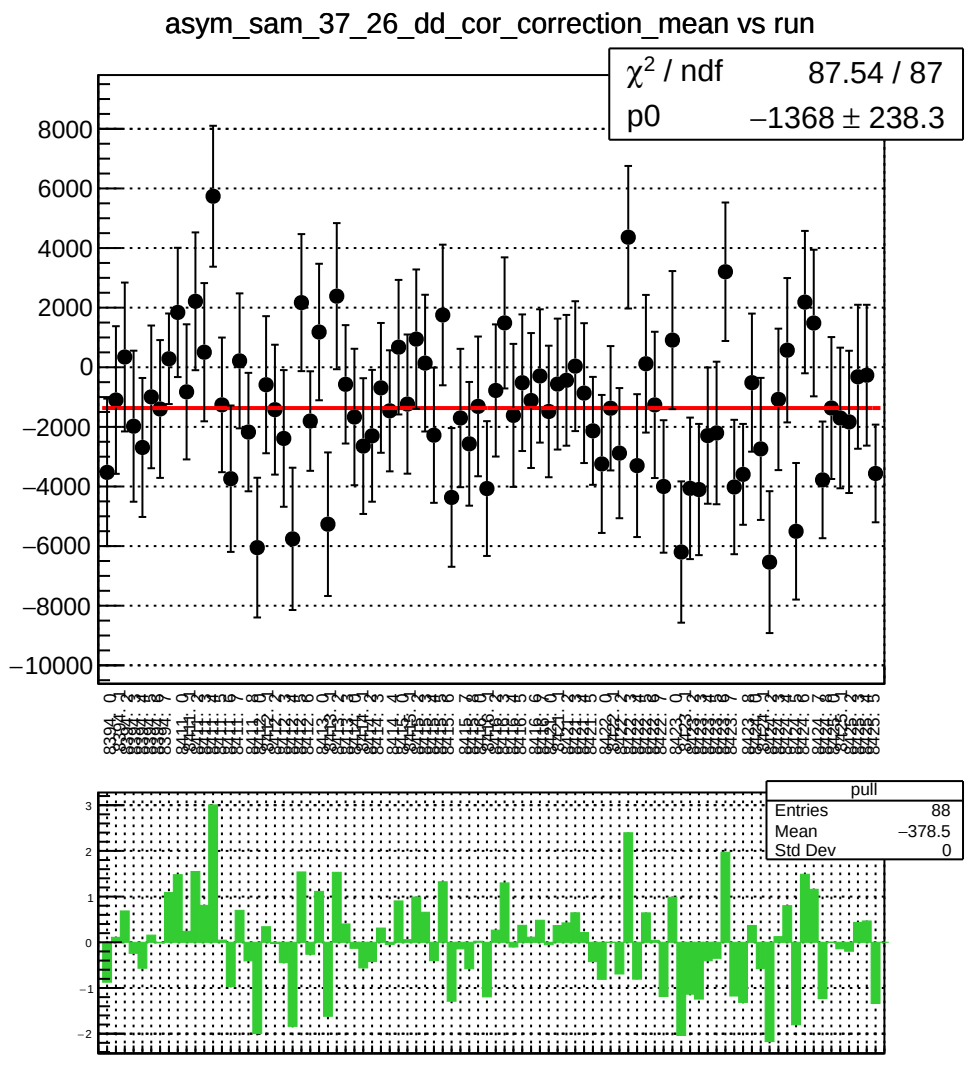

pull1D
Entries 88
Mean 0.01035
Std Dev 0.9973
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

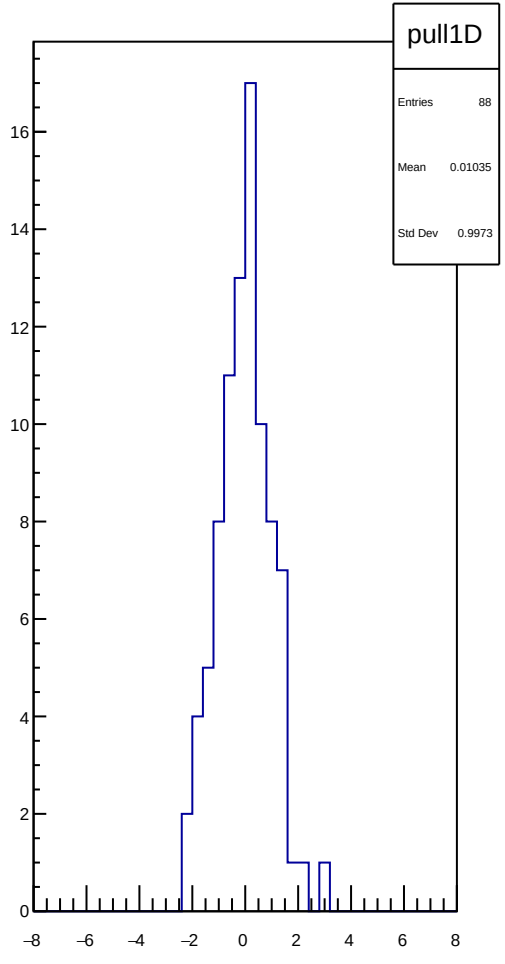

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 2528 / 87
p0 219 ± 0.1685
240
230
220
210
200

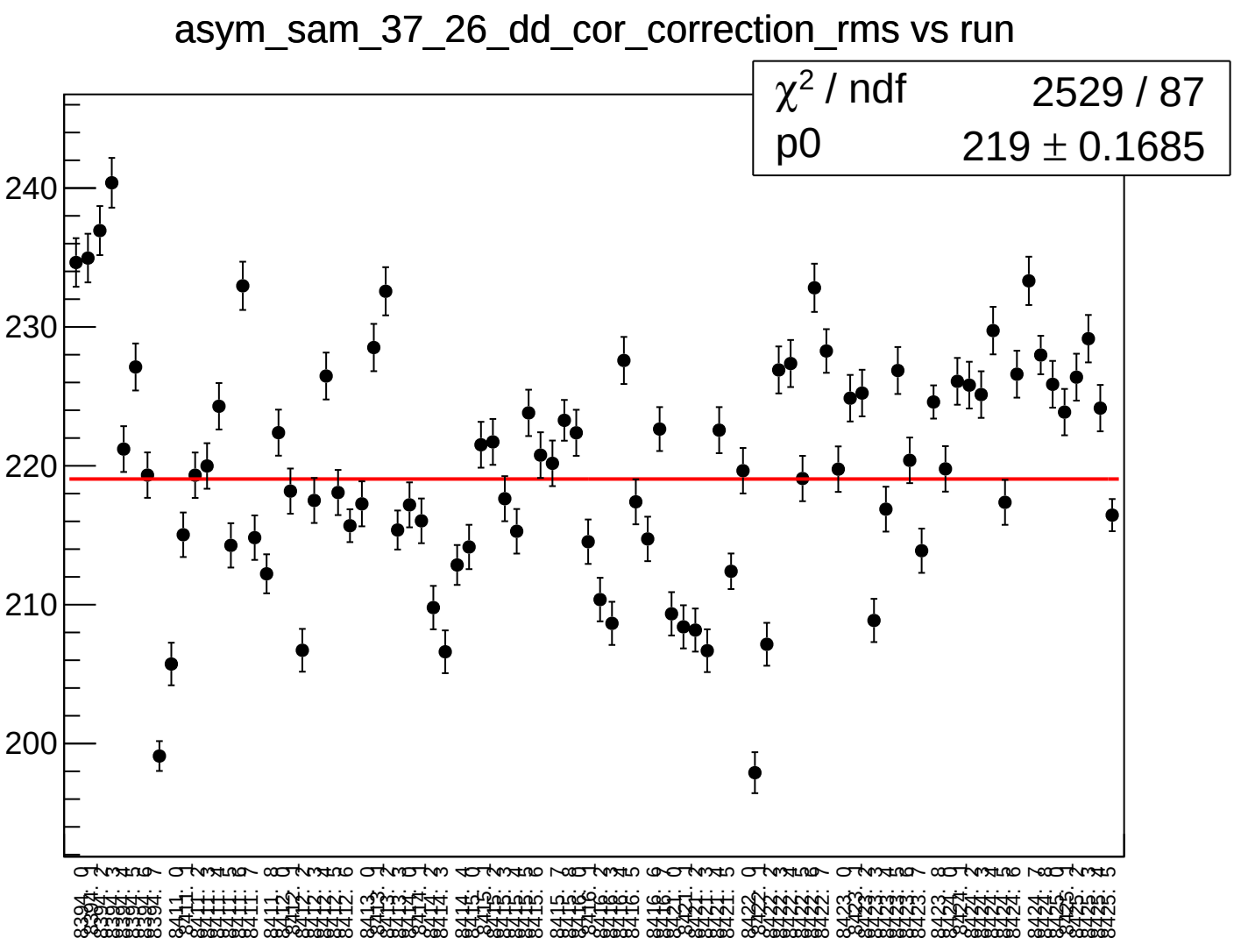

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 80.7 / 87
p0 119.6 ± 51.61
pull
Entries 88
Mean 61.09
Std Dev 0

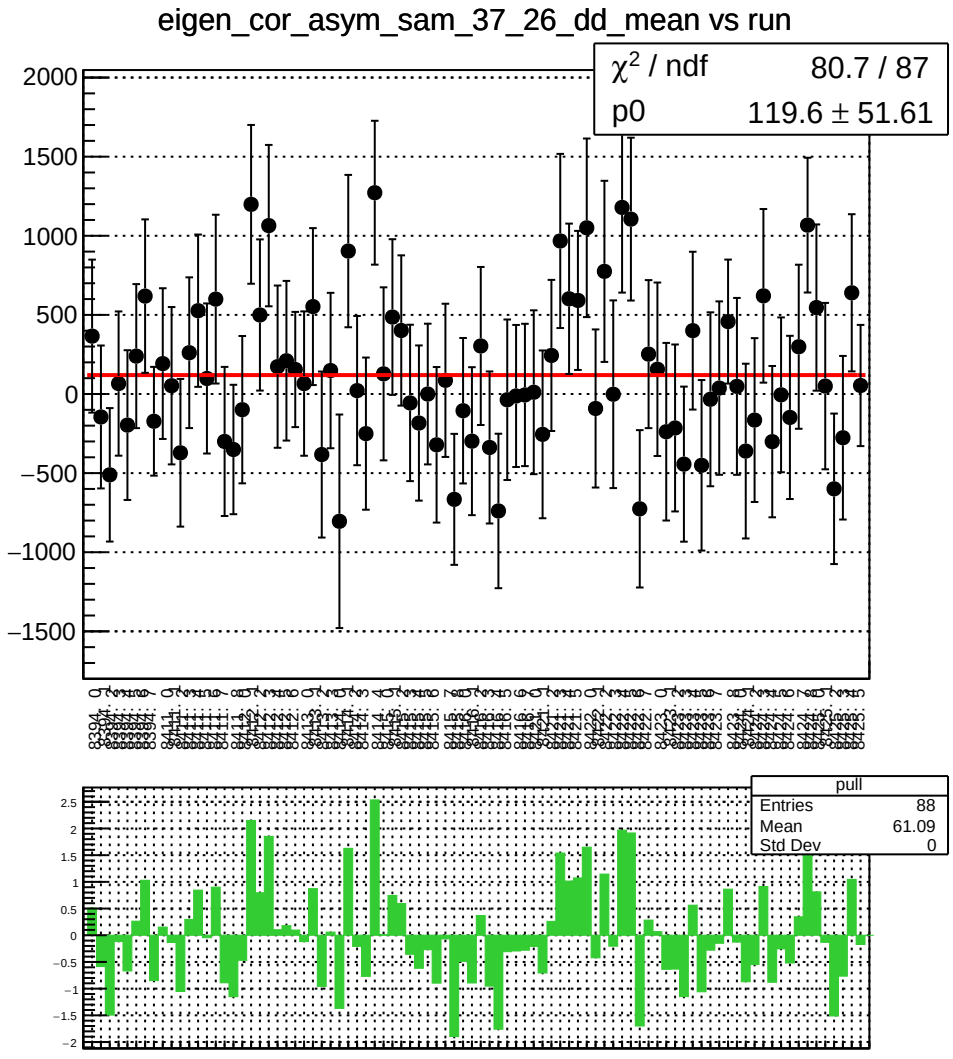

pull1D
Entries 88
Mean 0.008938
Std Dev 0.9576

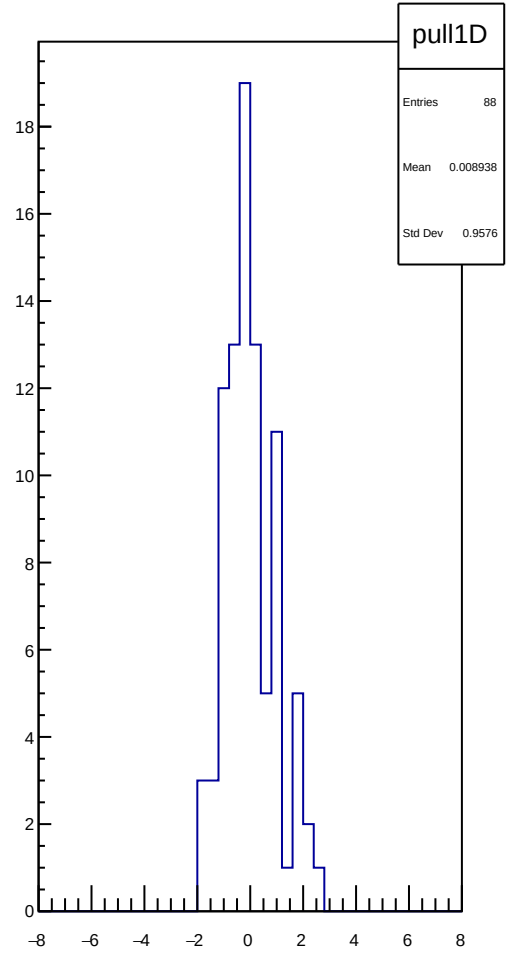

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 8654 / 87
p0 47.36 ± 0.03649
65
60
55
50
45
40

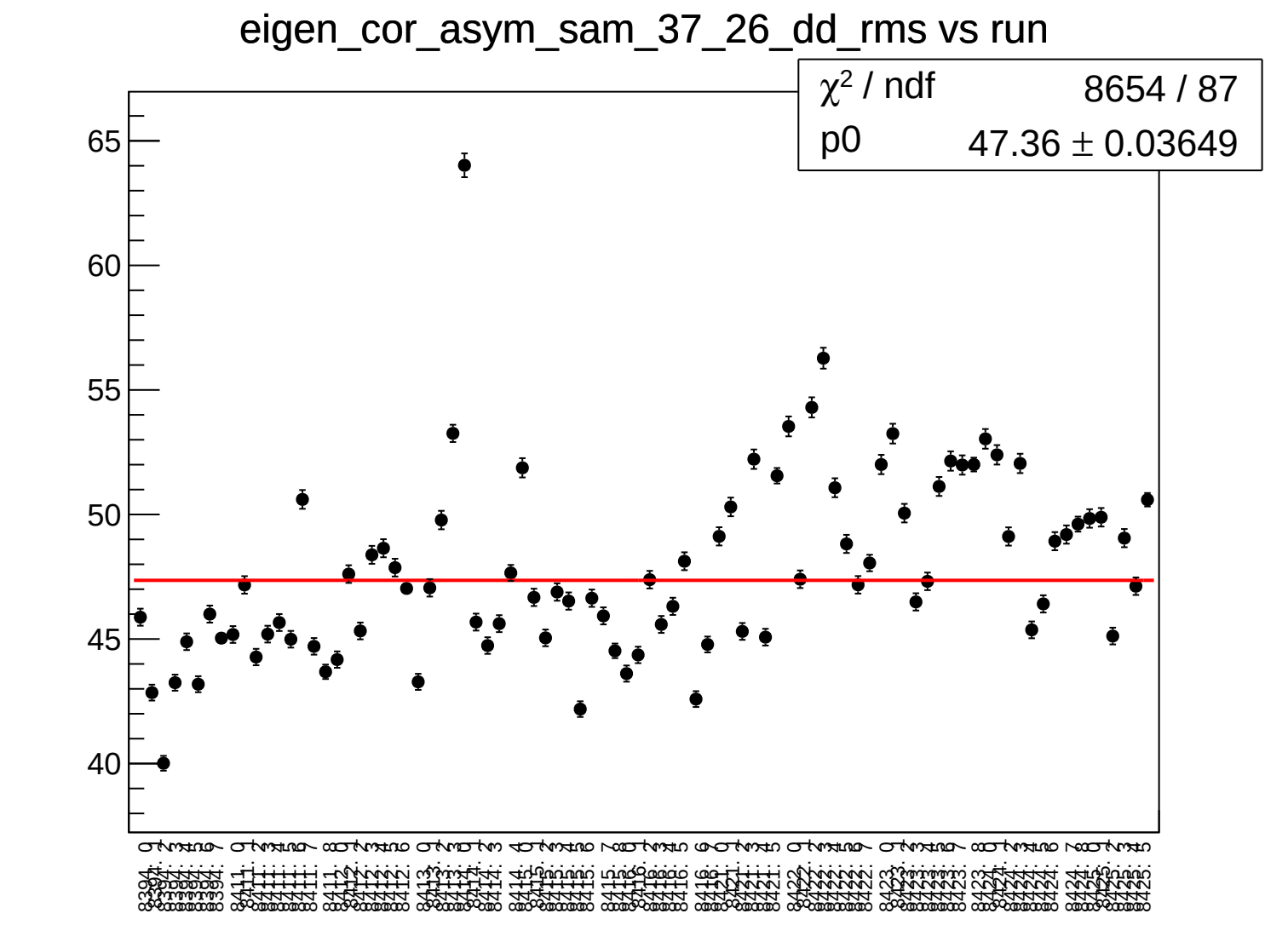

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 87.54 / 87
p0 −1368 ± 238.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 88
Mean −378.5
Std Dev 0
3
2
1
0
−1
−2

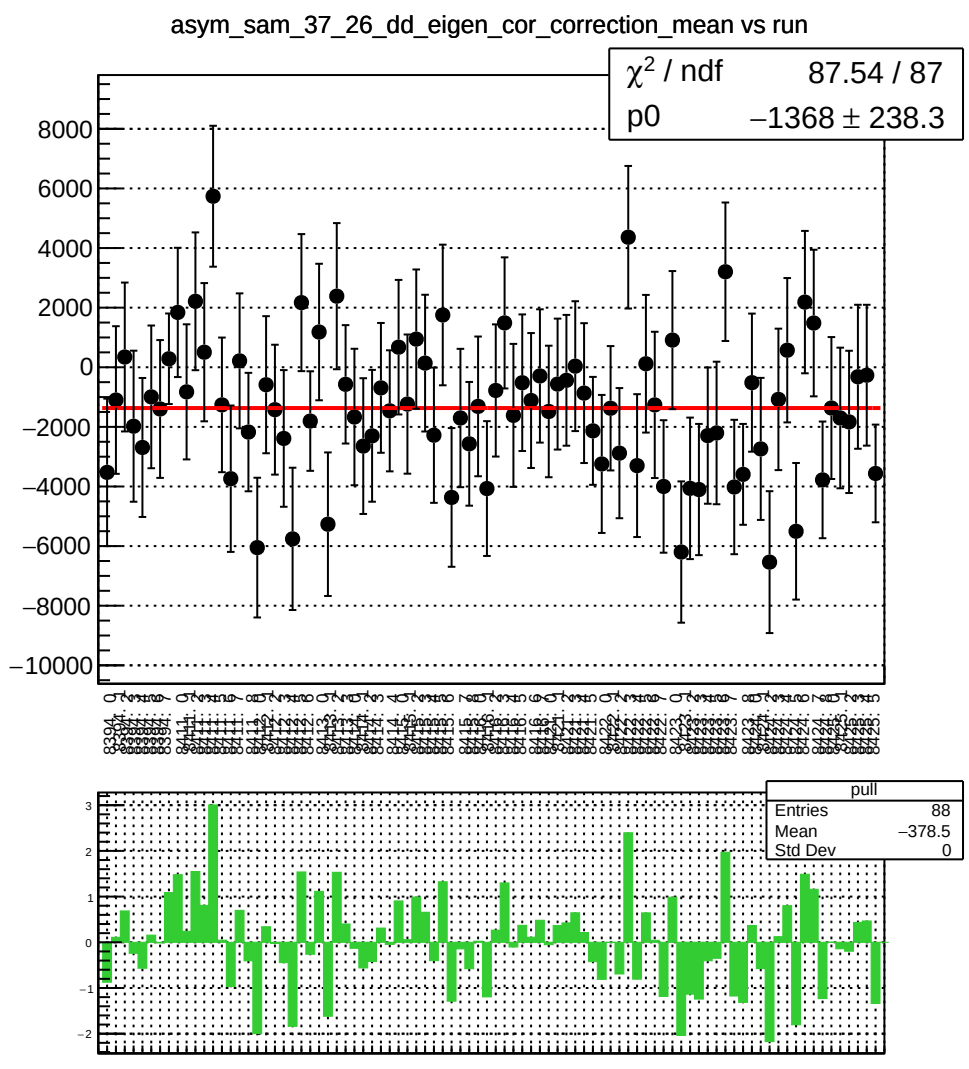

pull1D
Entries 88
Mean 0.01035
Std Dev 0.9973
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

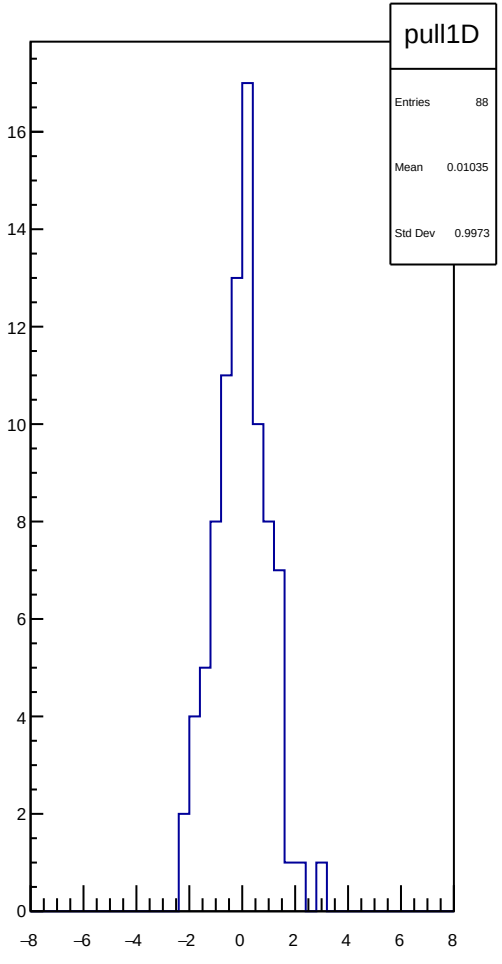

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 2529 / 87
p0 219 ± 0.1685
240
230
220
210
200

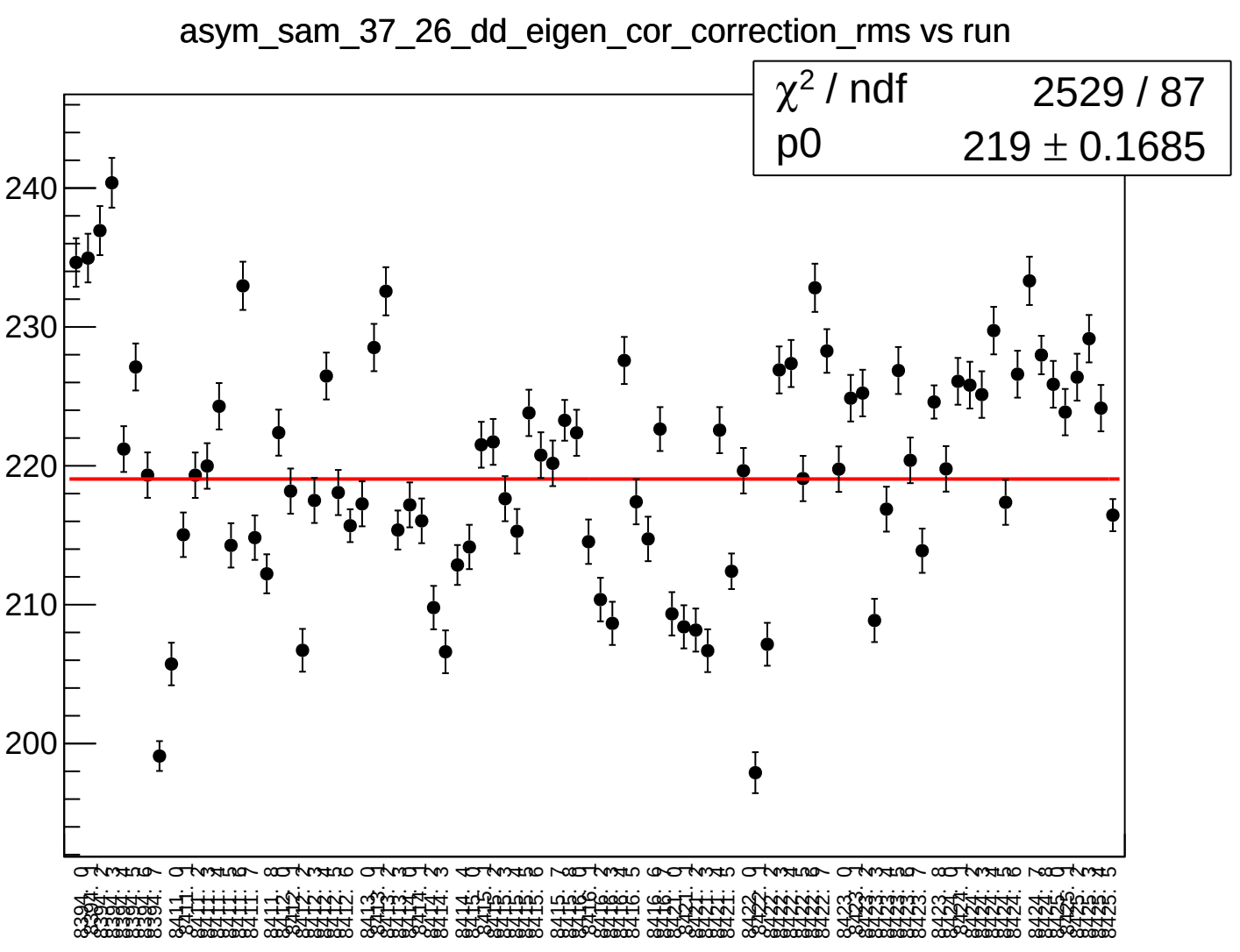

eigen_cor_asym_sam_37_26_dd_mean vs run
χ^2 / ndf 80.7 / 87
p0 119.6 ± 51.61
pull
Entries 88
Mean 61.09
Std Dev 0

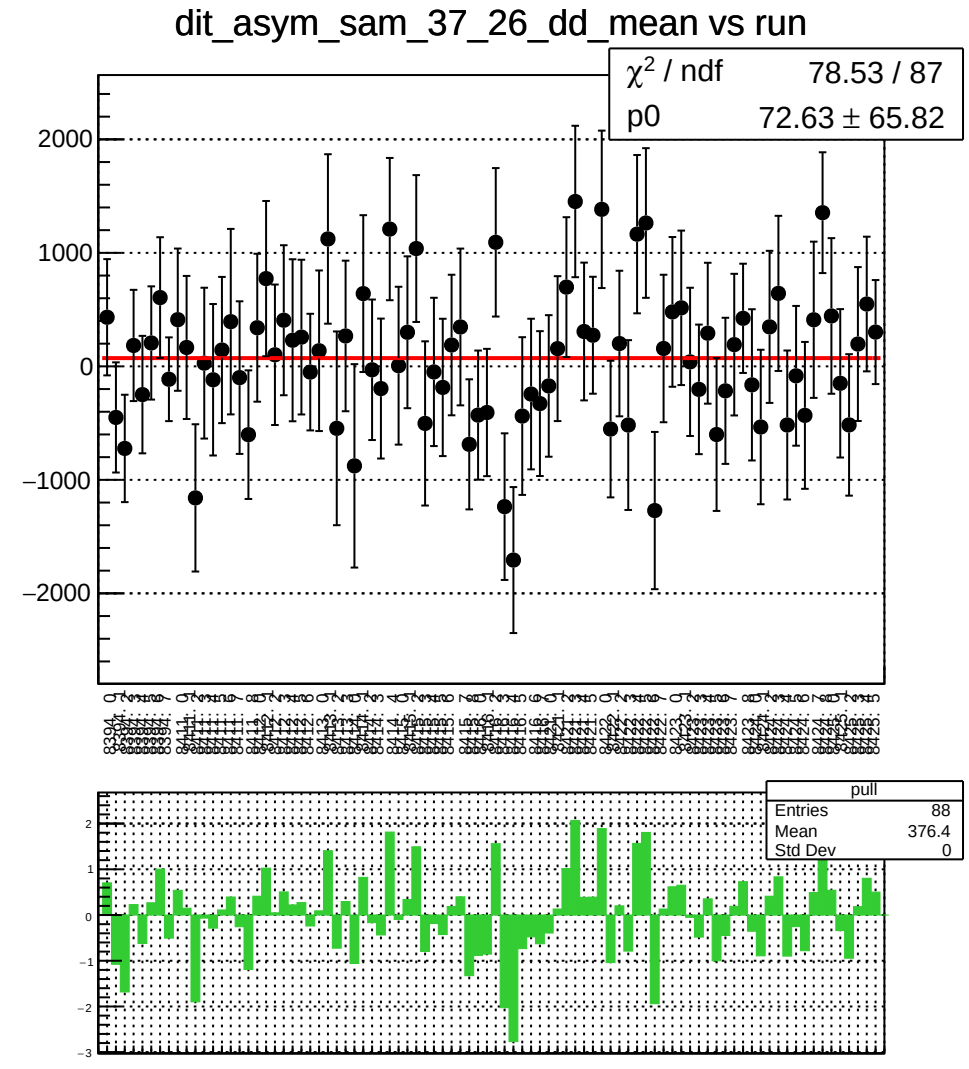

pull1D
Entries 88
Mean 0.008938
Std Dev 0.9576

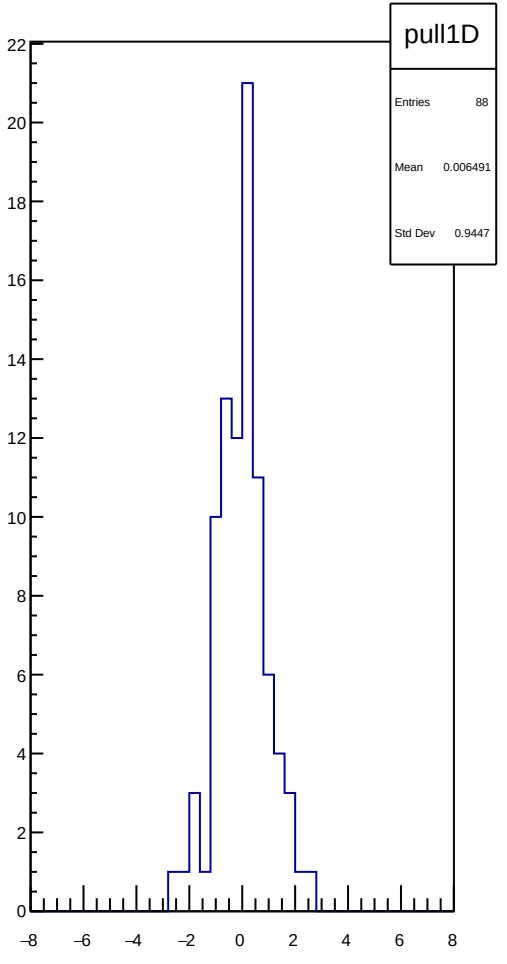

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 8654 / 87
p0 47.36 ± 0.03649
65
60
55
50
45
40

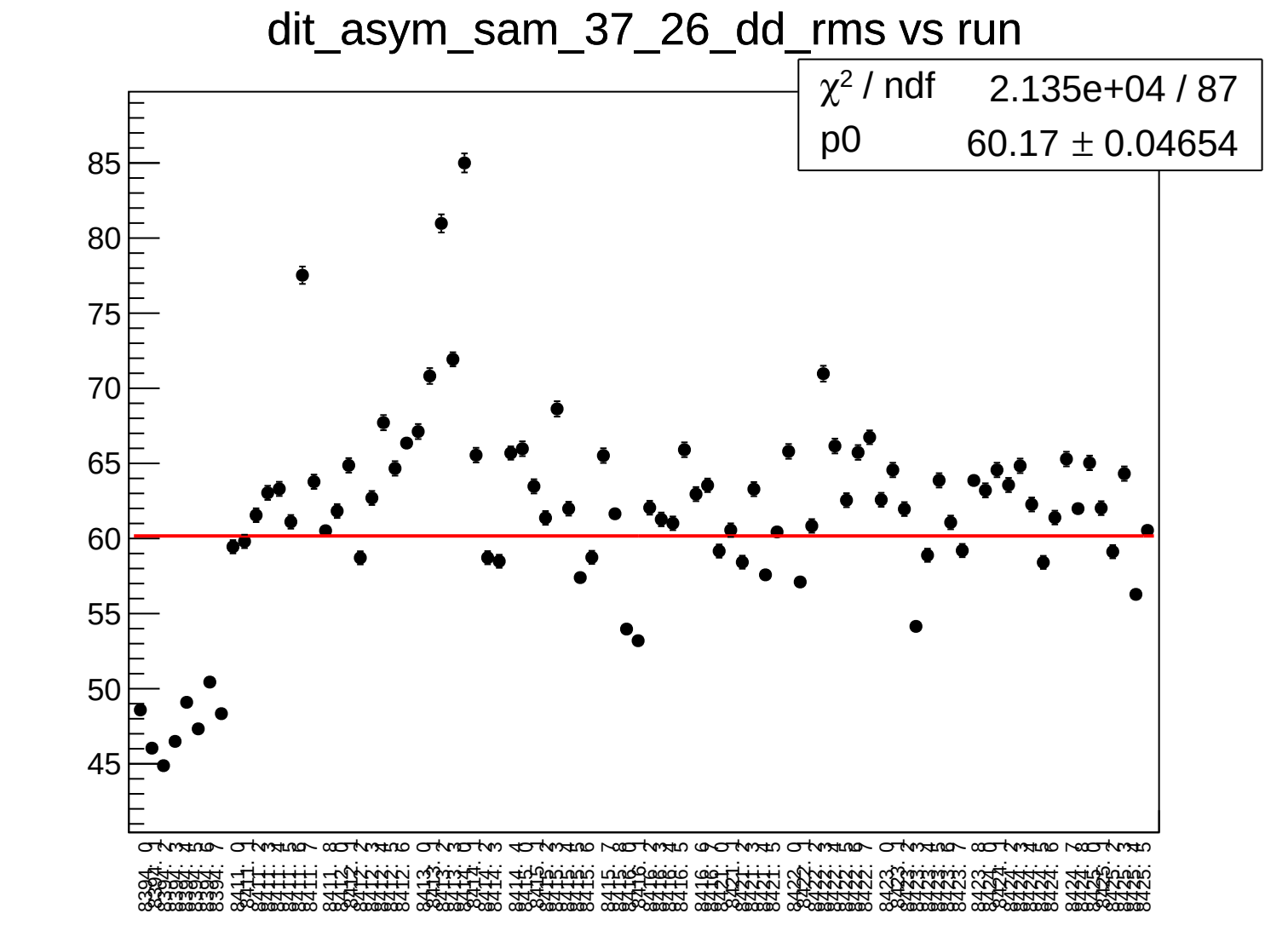

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 87.54 / 87
p0 −1368 ± 238.3
pull
Entries 88
Mean −378.5
Std Dev 0

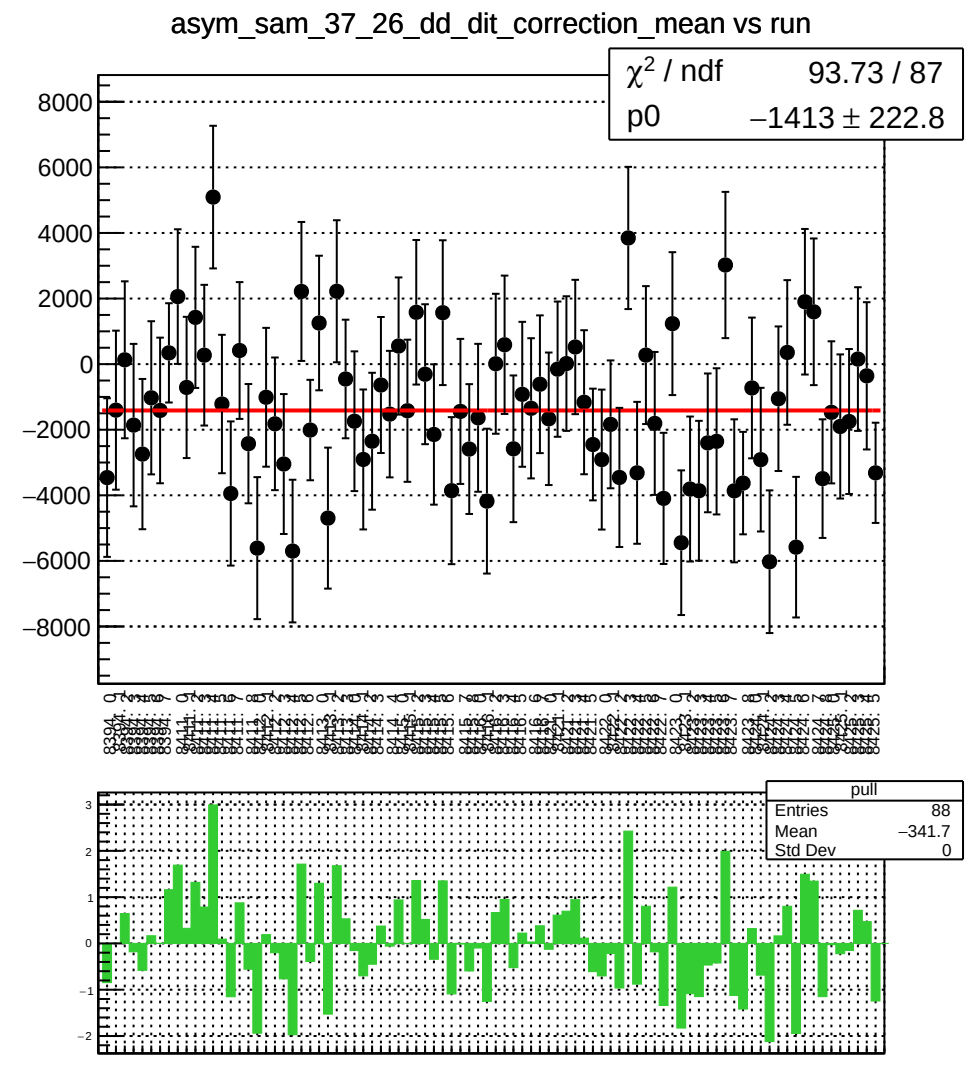

pull1D
Entries 88
Mean 0.01035
Std Dev 0.9973

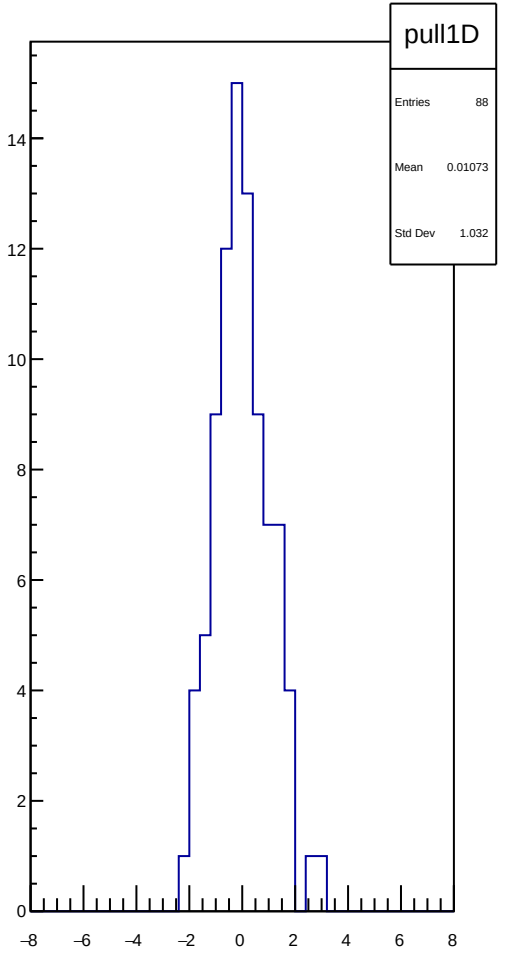

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 2529 / 87
p0 219 ± 0.1685
240
230
220
210
200

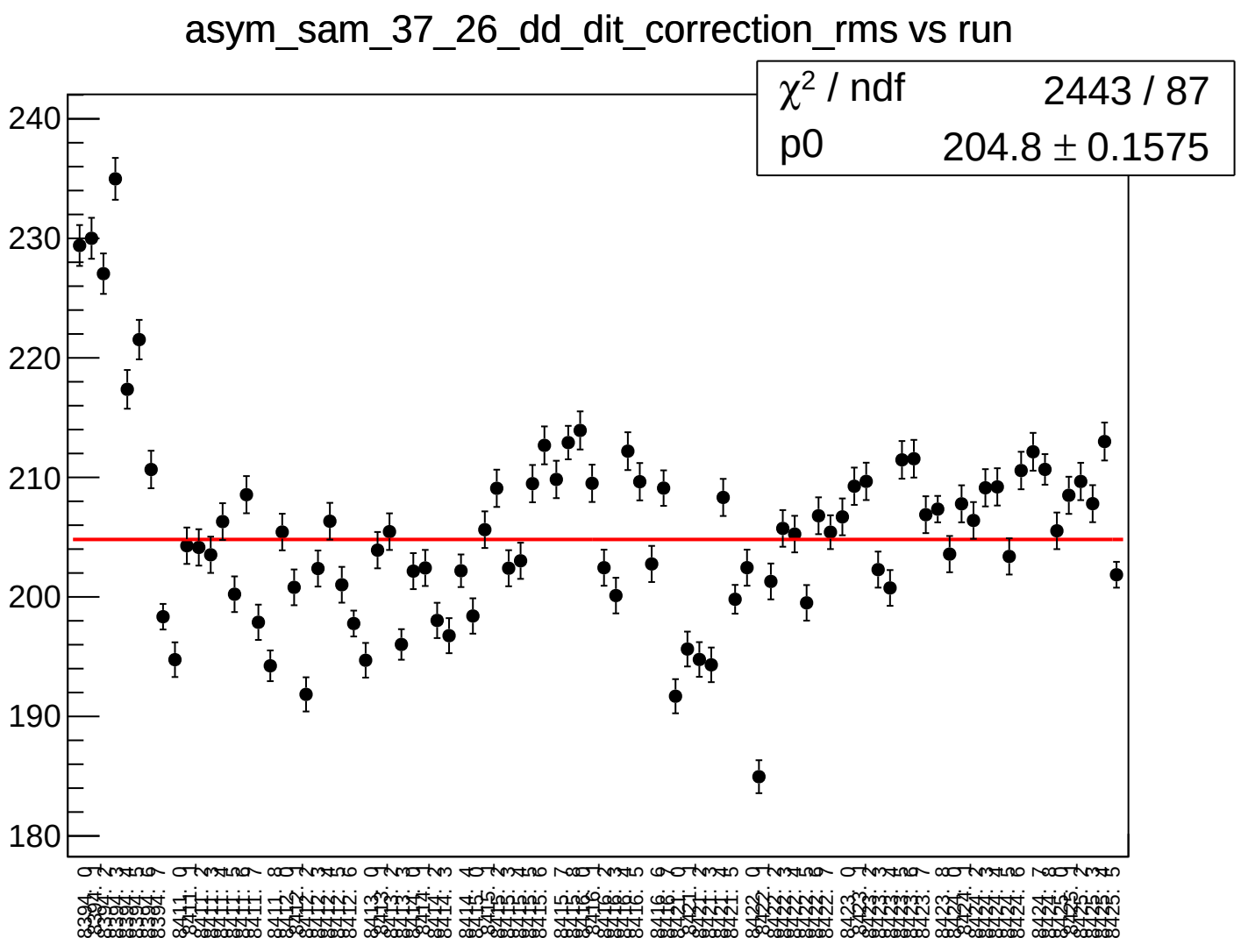

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 78.53 / 87
p0 72.63 ± 65.82
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 376.4
Std Dev 0
2
1
0
−1
−2
−3

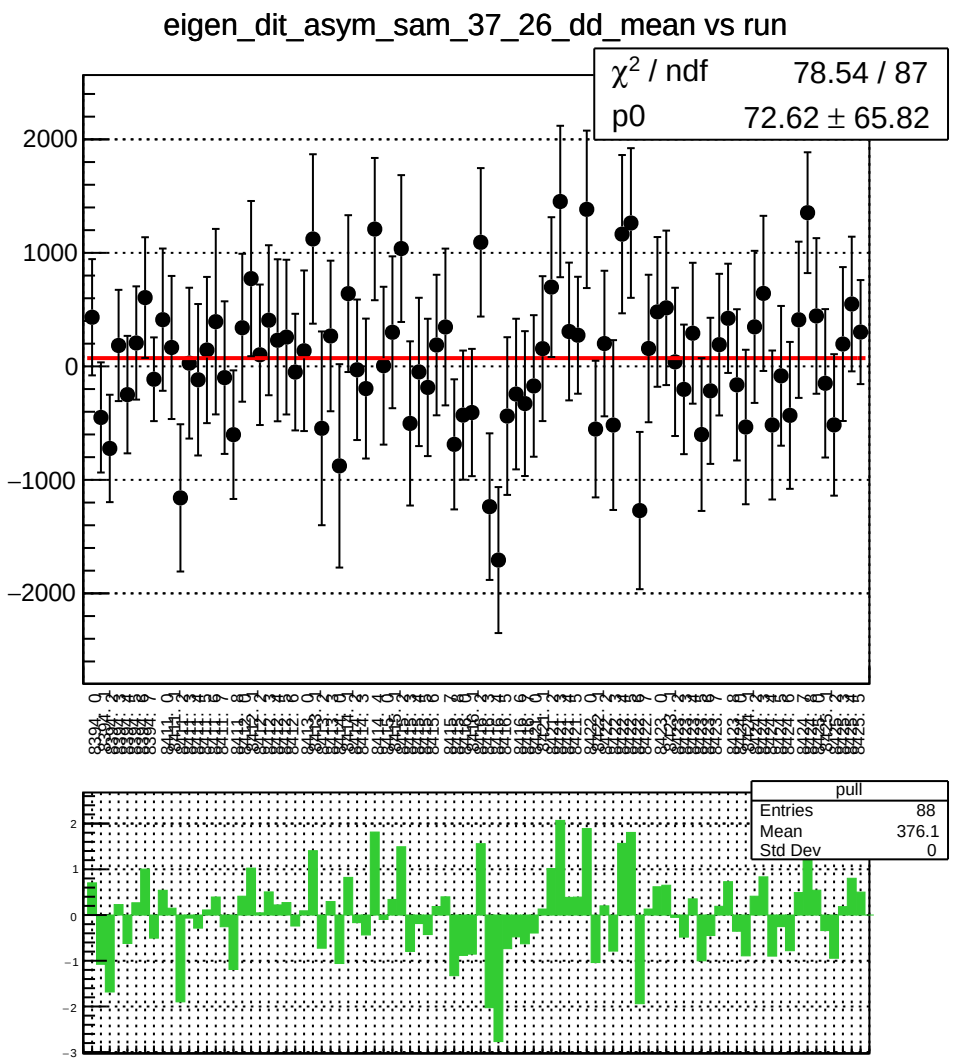

pull1D
Entries 88
Mean 0.006491
Std Dev 0.9447
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

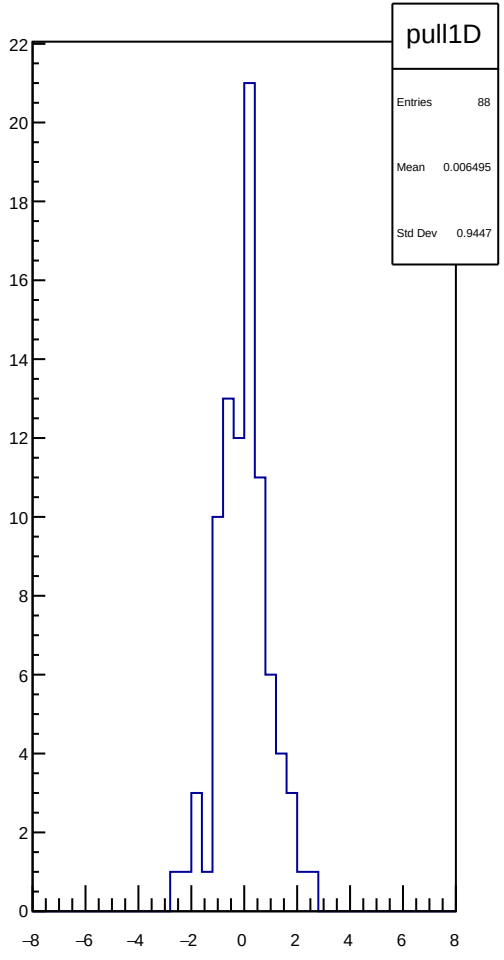

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 2.135e+04 / 87
p0 60.17 ± 0.04654
85
80
75
70
65
60
55
50
45

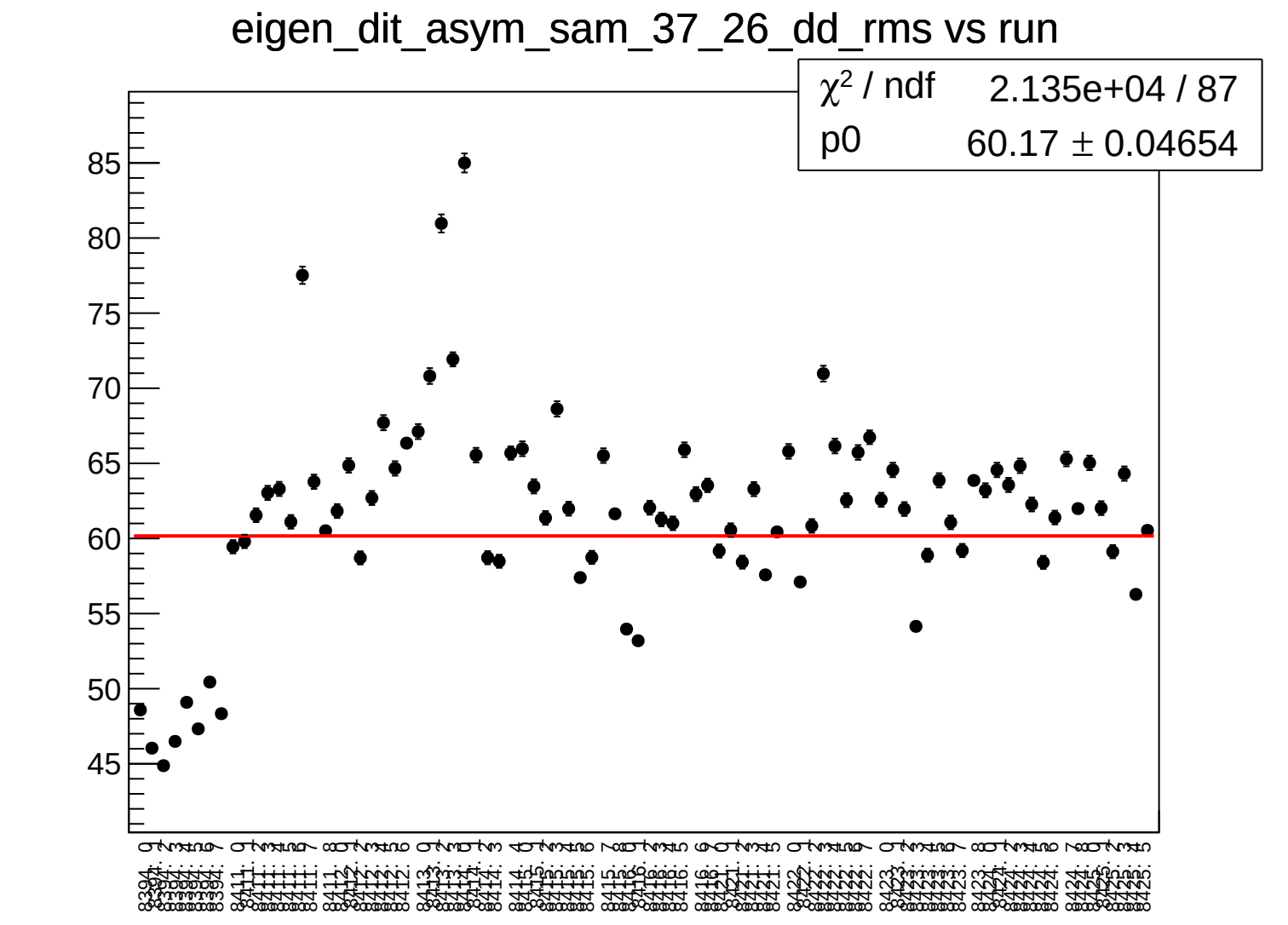

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 93.73 / 87
p0 −1413 ± 222.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 88
Mean −341.7
Std Dev 0
3
2
1
0
−1
−2

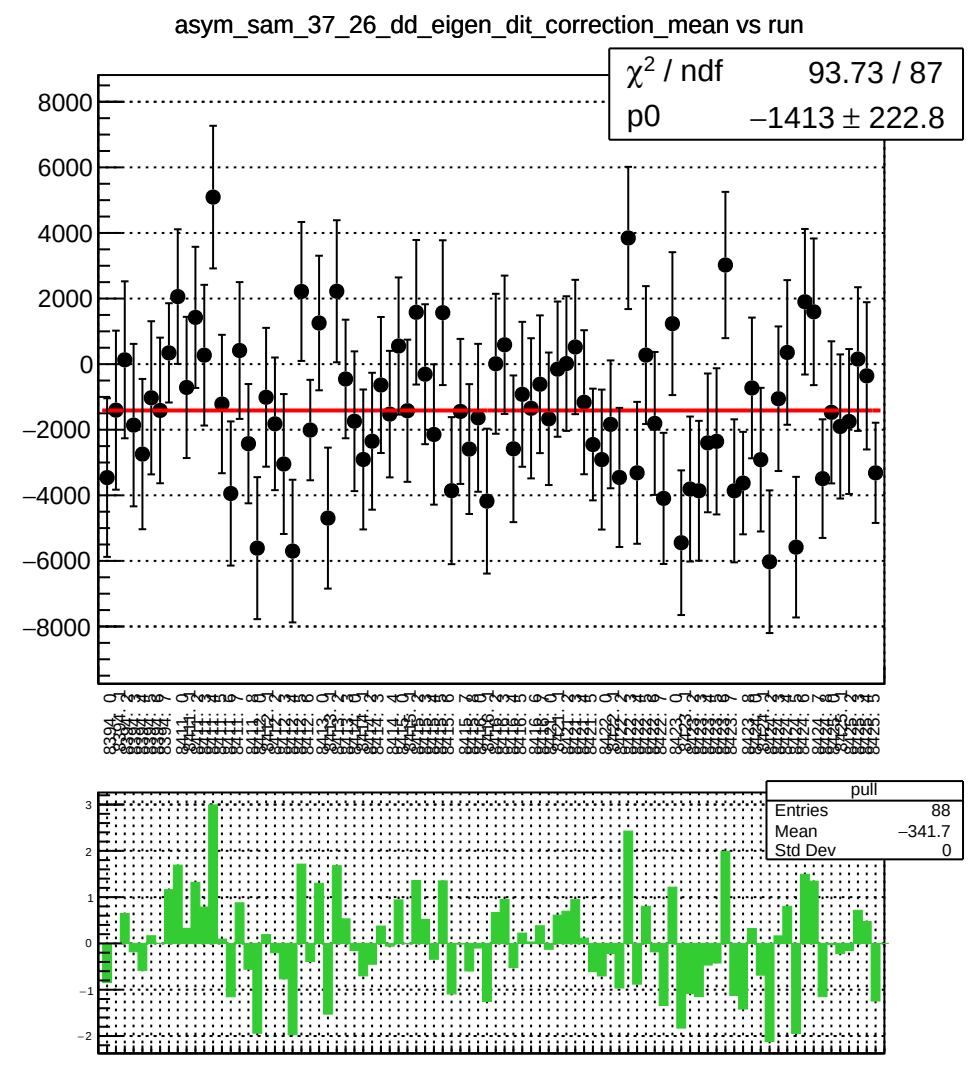

pull1D
Entries 88
Mean 0.01073
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

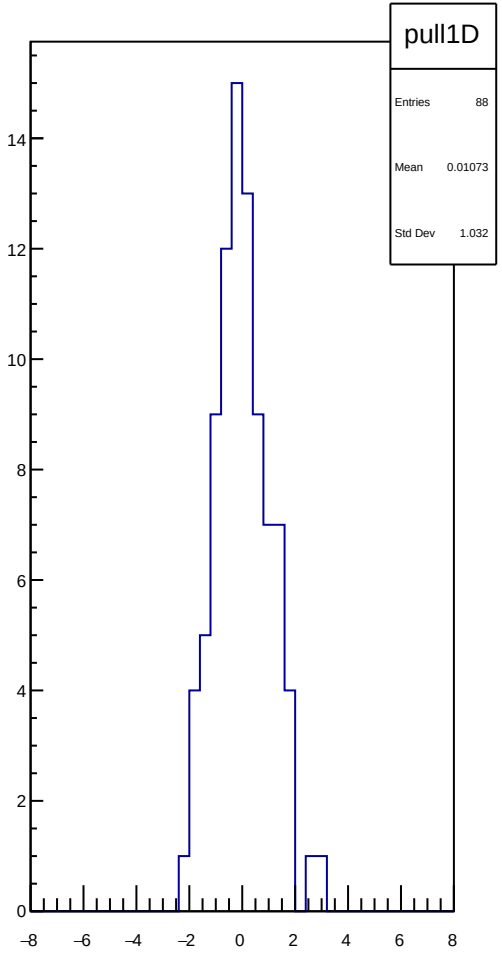

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 2443 / 87
p0 204.8 ± 0.1575
240
230
220
210
200
190
180

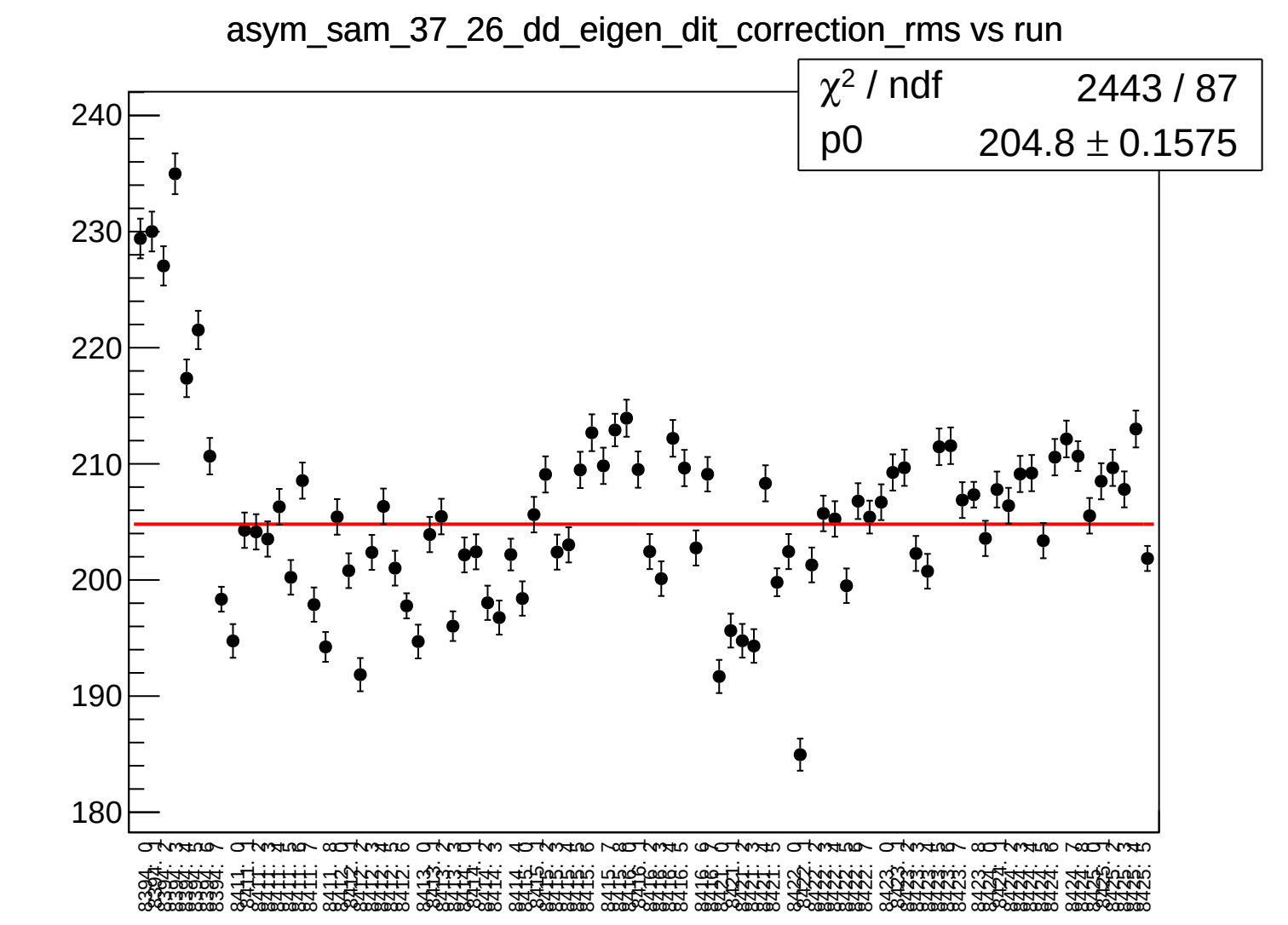

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 78.54 / 87
p0 72.62 ± 65.82
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 376.1
Std Dev 0
2
1
0
−1
−2
−3

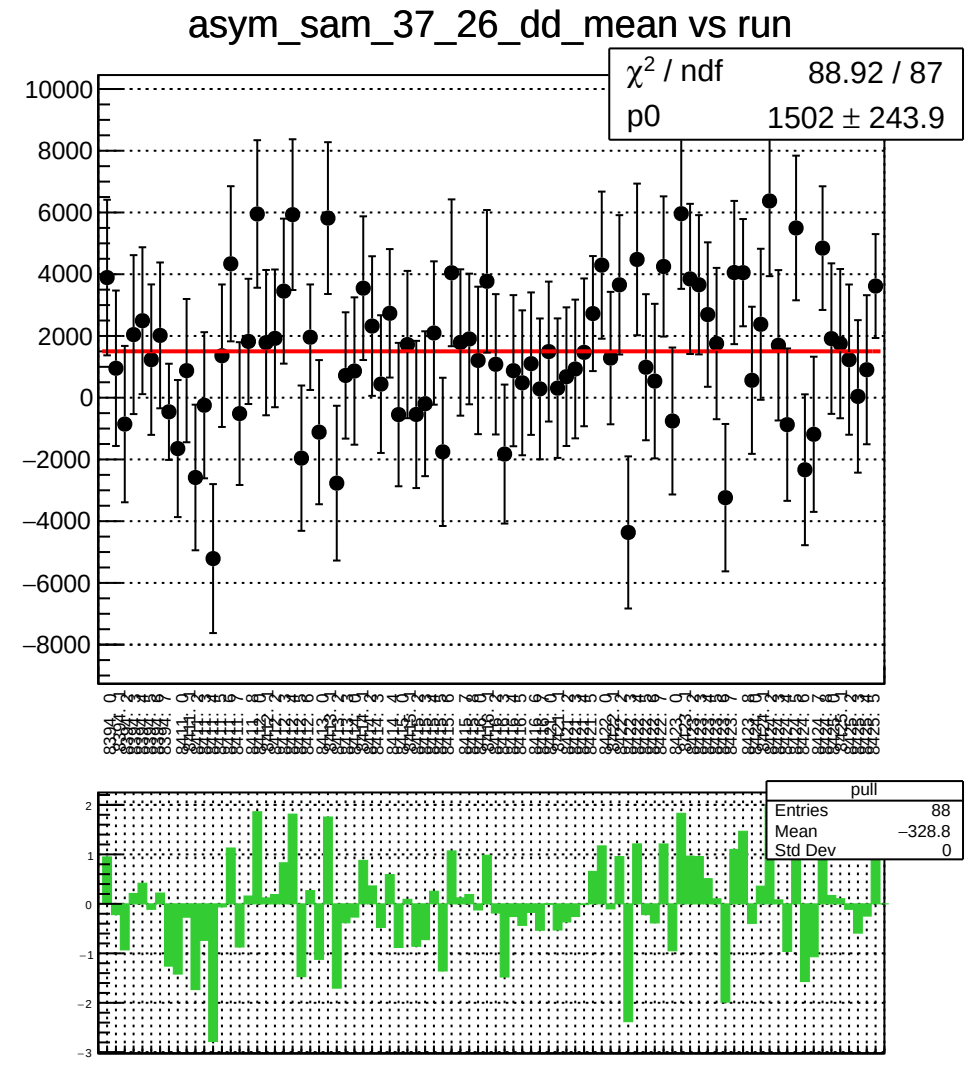

pull1D
Entries 88
Mean 0.006495
Std Dev 0.9447
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

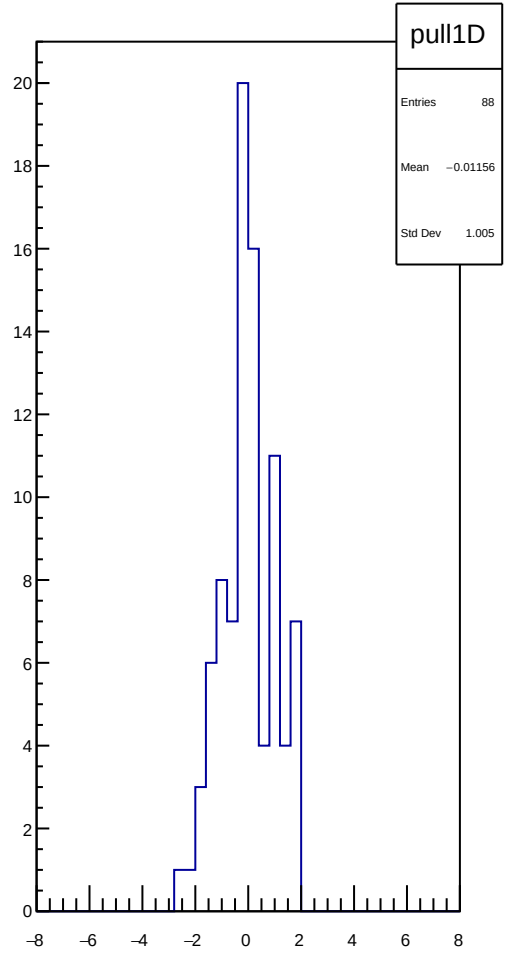

eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 2.135e+04 / 87
p0 60.17 ± 0.04654
85
80
75
70
65
60
55
50
45

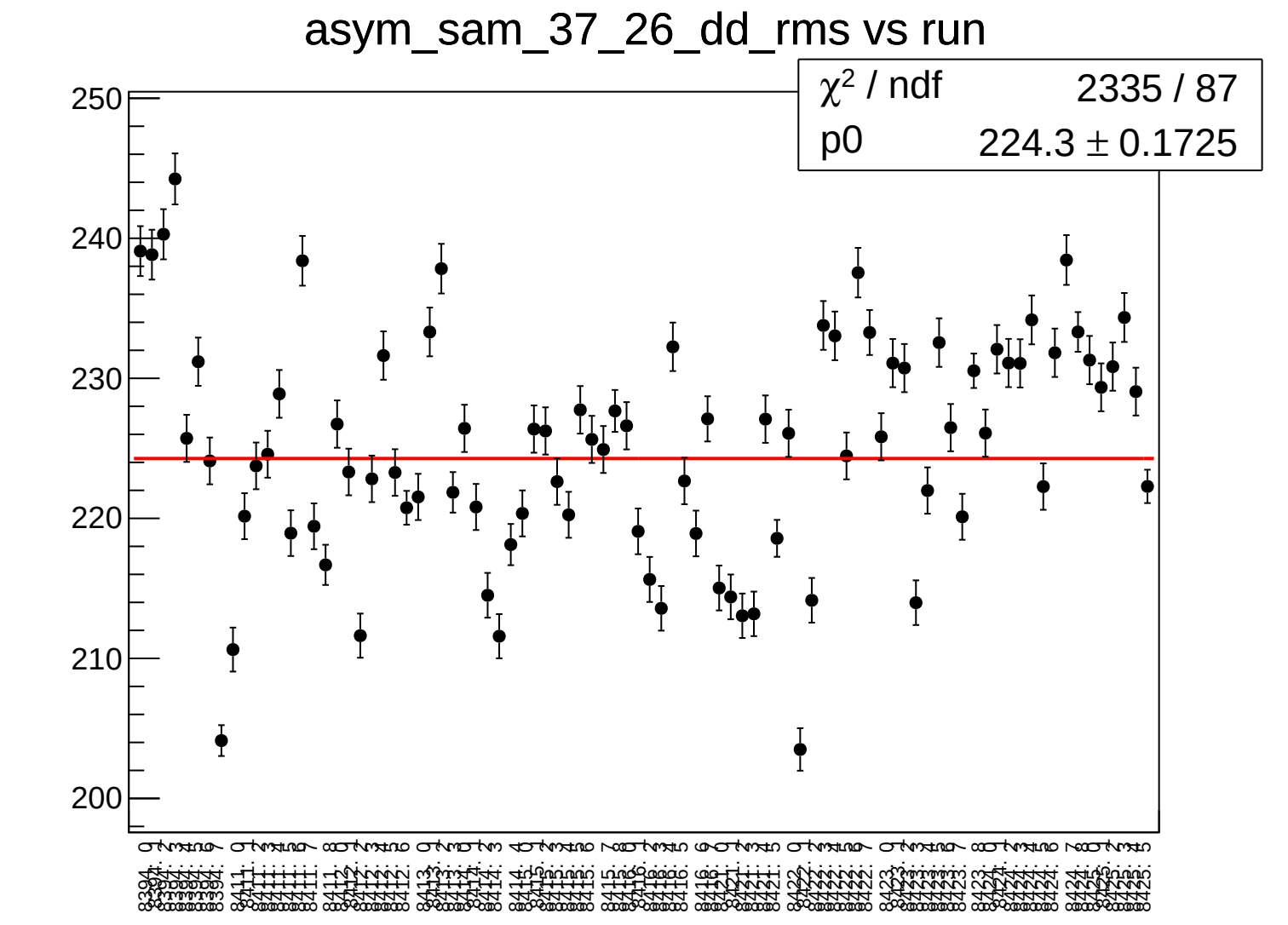

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 93.73 / 87
p0 −1413 ± 222.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 88
Mean −341.7
Std Dev 0
3
2
1
0
−1
−2

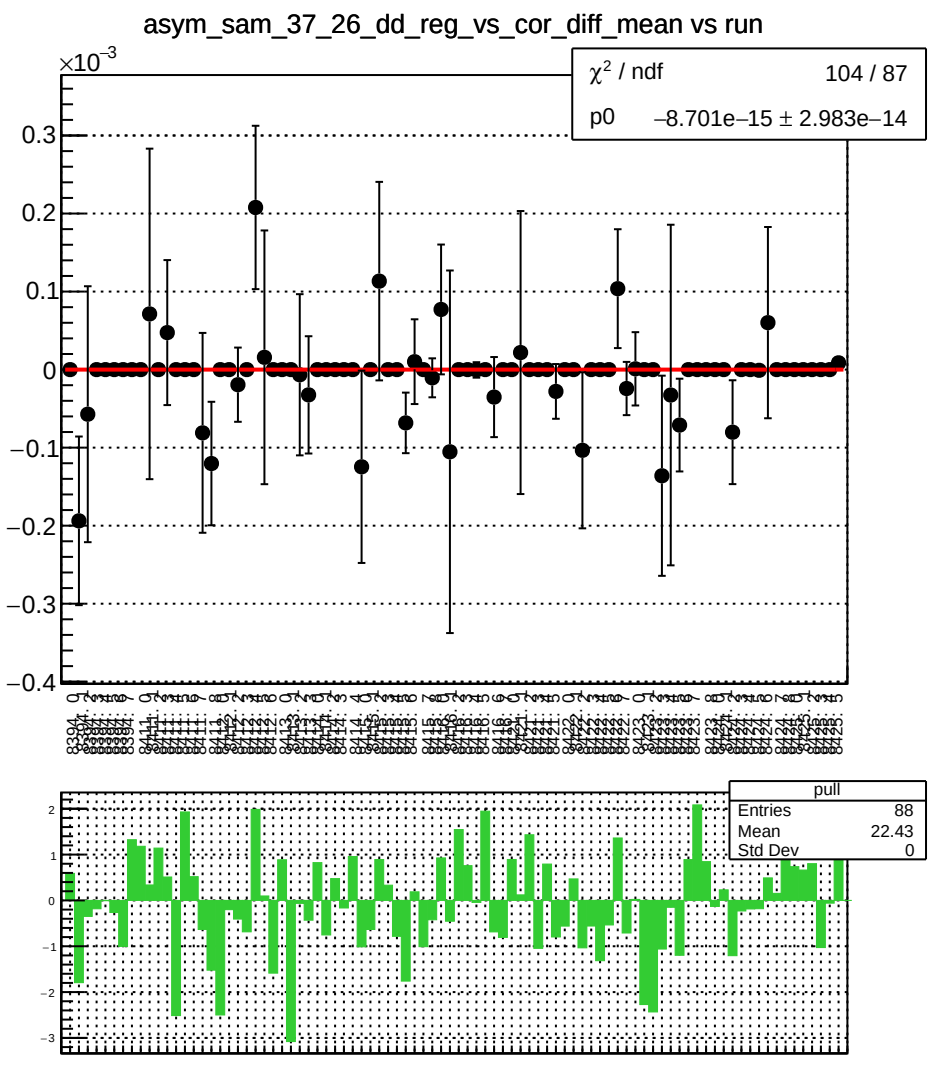

pull1D
Entries 88
Mean 0.01073
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

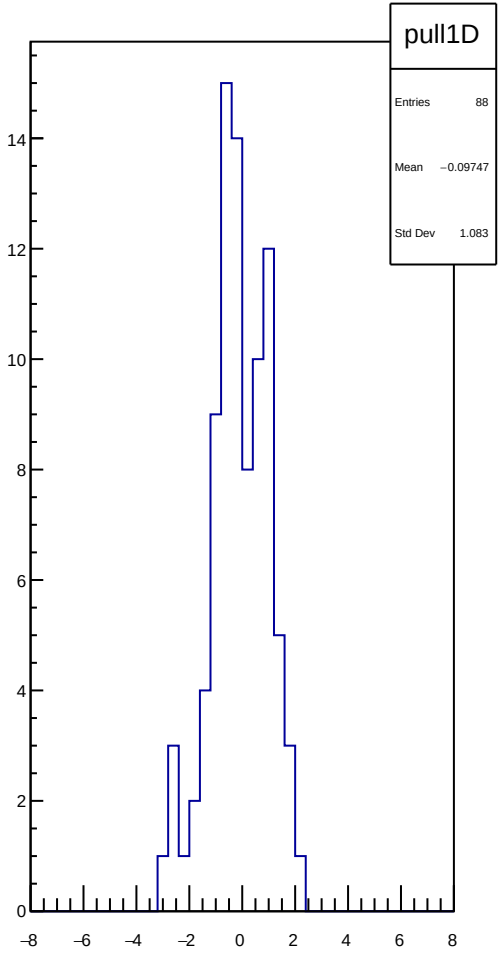

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 2443 / 87
p0 204.8 ± 0.1575
240
230
220
210
200
190
180

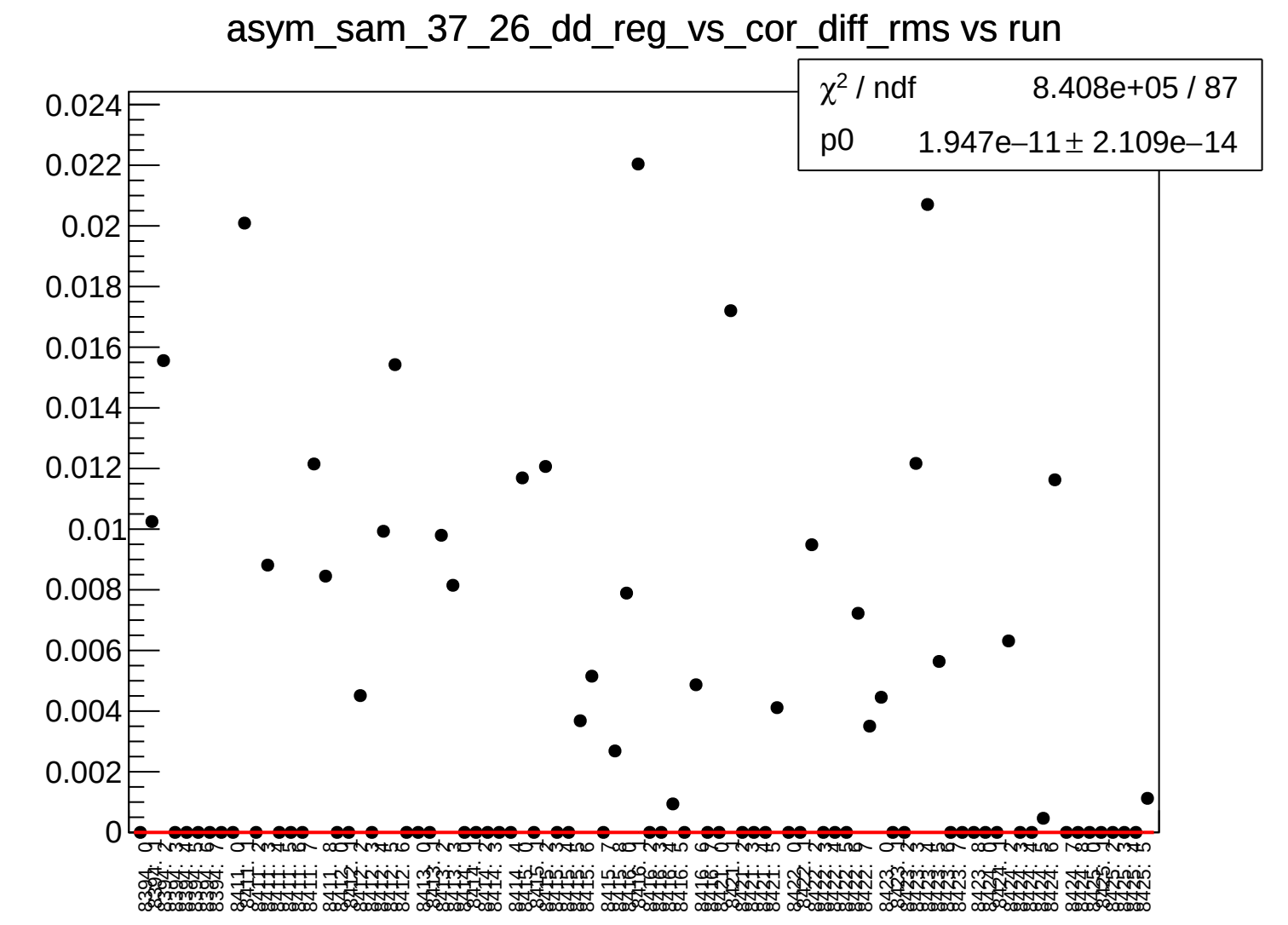

asym_sam_37_26_dd_mean vs run
χ² / ndf 88.92 / 87
p0 1502 ± 243.9
pull
Entries 88
Mean −328.8
Std Dev 0

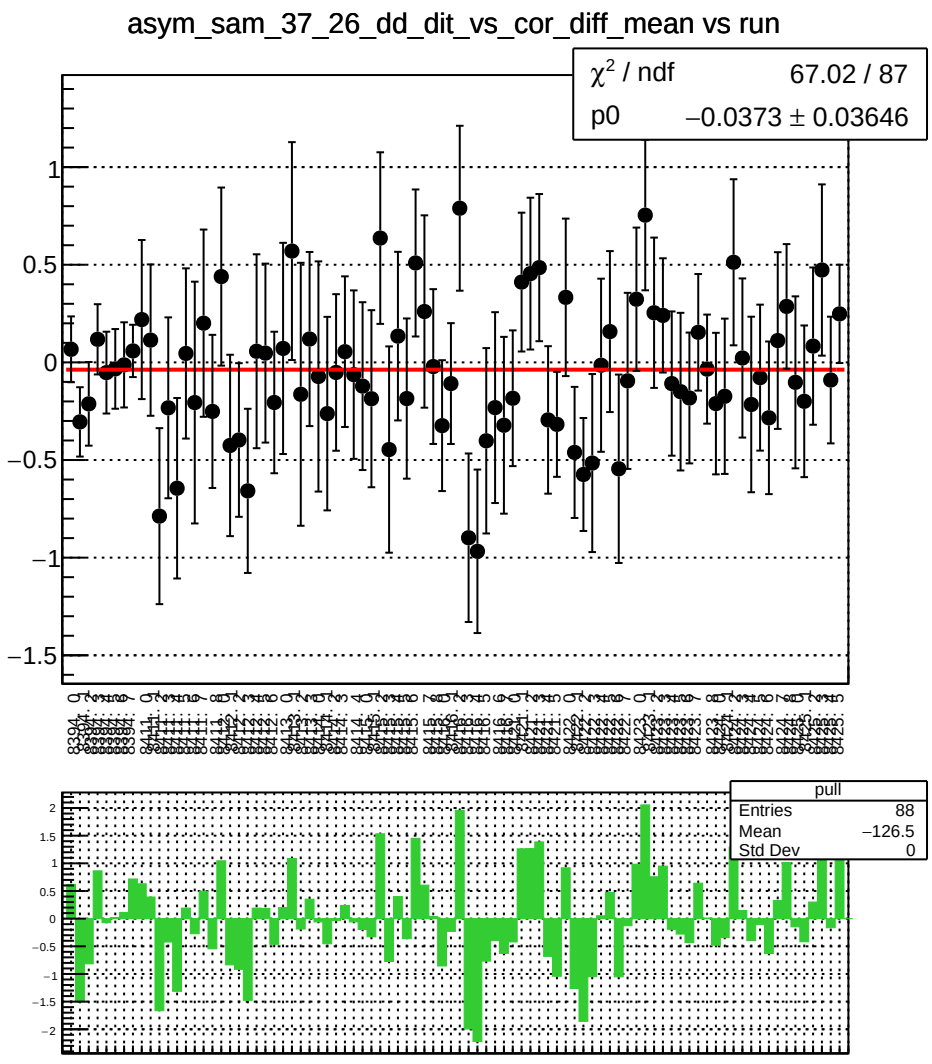

pull1D
Entries 88
Mean −0.01156
Std Dev 1.005

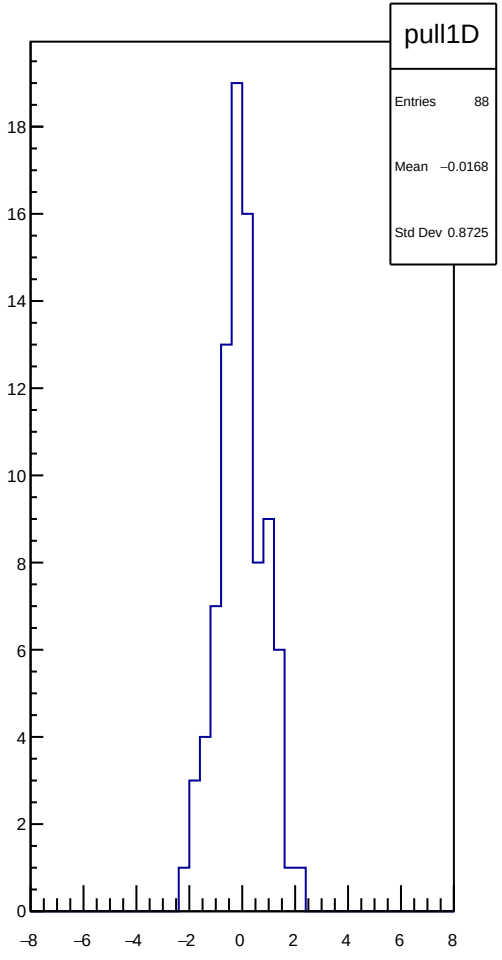

asym_sam_37_26_dd_rms vs run
χ² / ndf 2335 / 87
p0 224.3 ± 0.1725
250
240
230
220
210
200

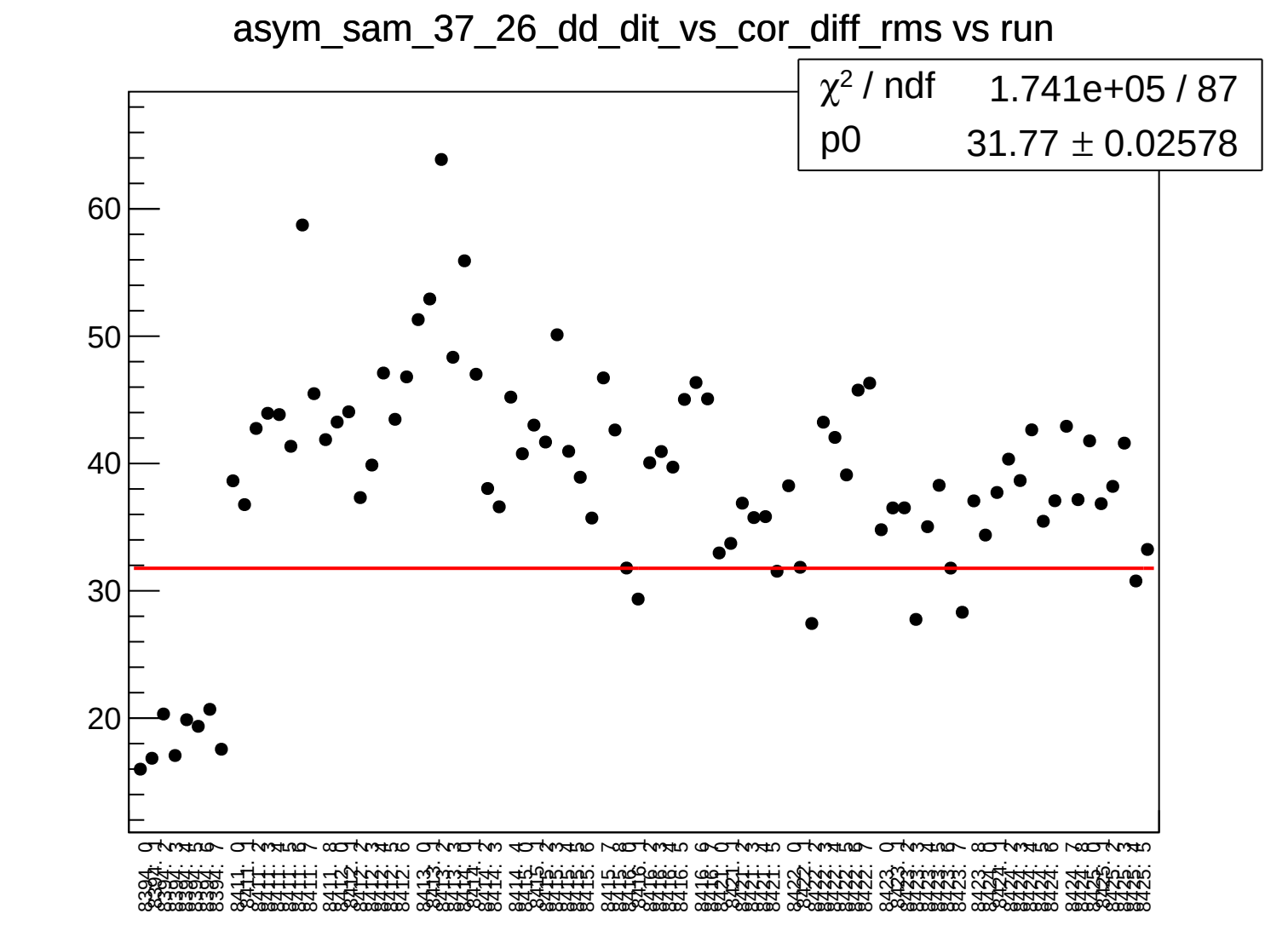

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 104 / 87
p0 −8.701e−15 ± 2.983e−14
pull
Entries 88
Mean 22.43
Std Dev 0

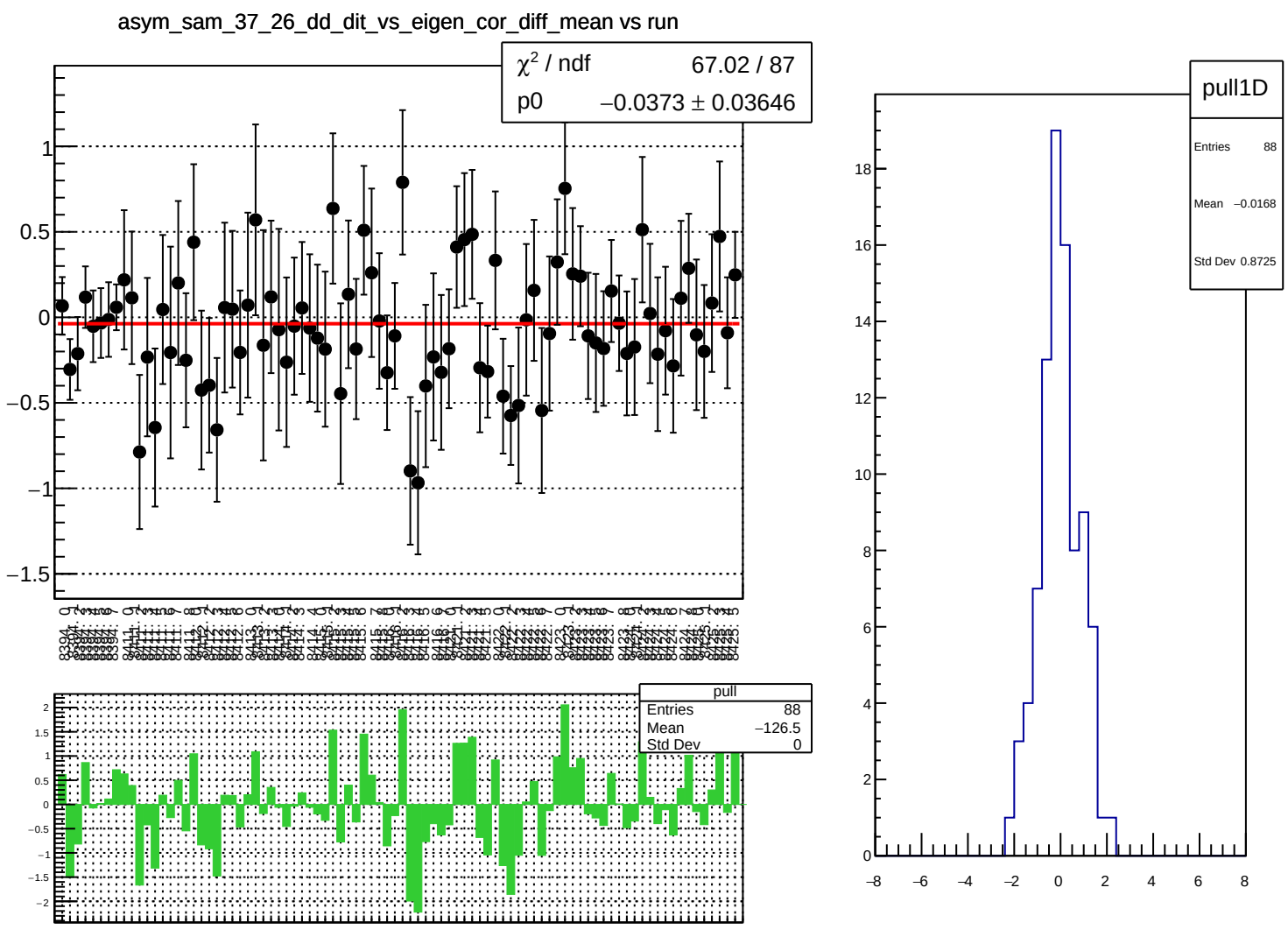

pull1D
Entries 88
Mean −0.09747
Std Dev 1.083

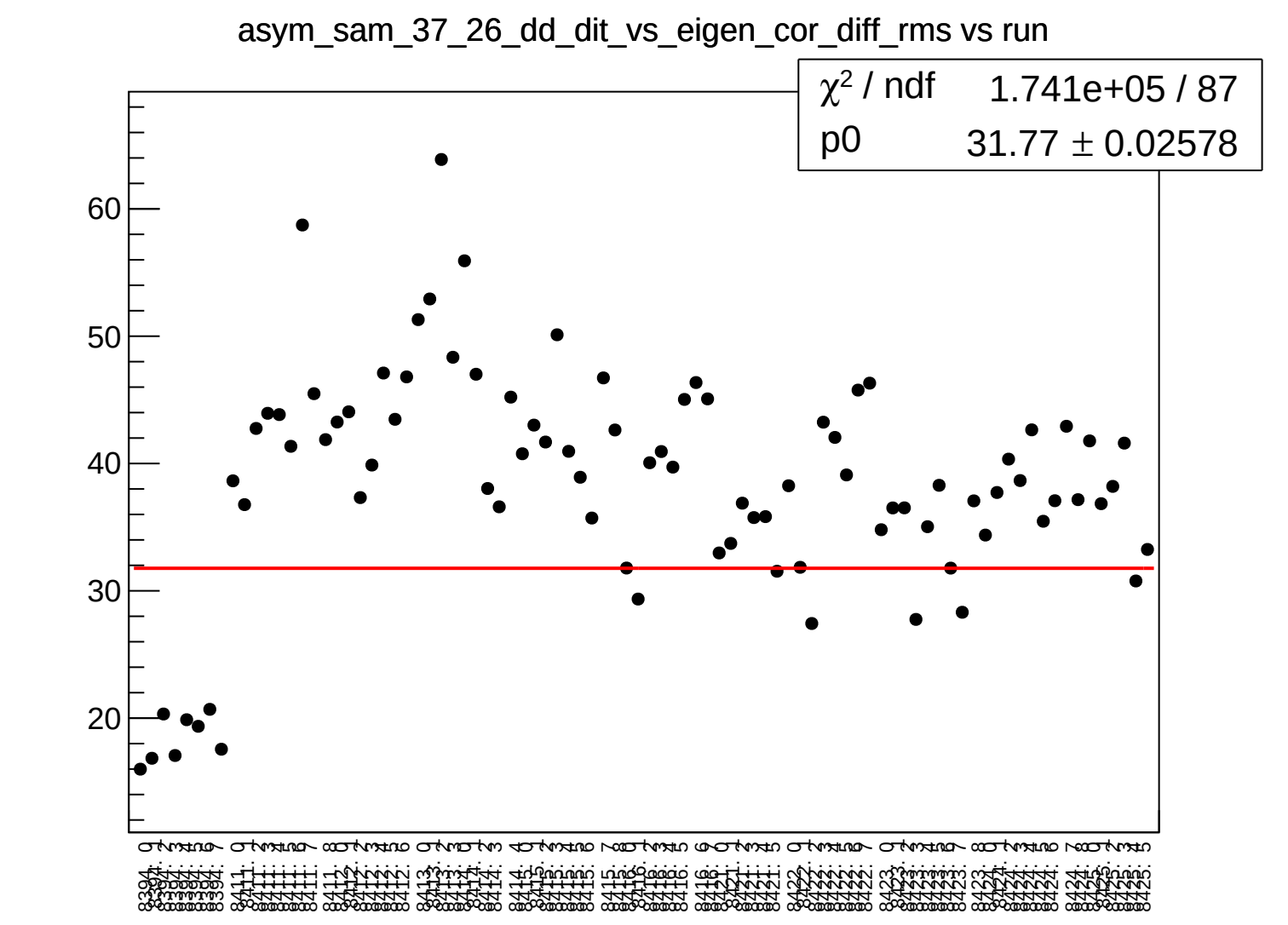

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.408e+05 / 87
p0 1.947e−11 ± 2.109e−14
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

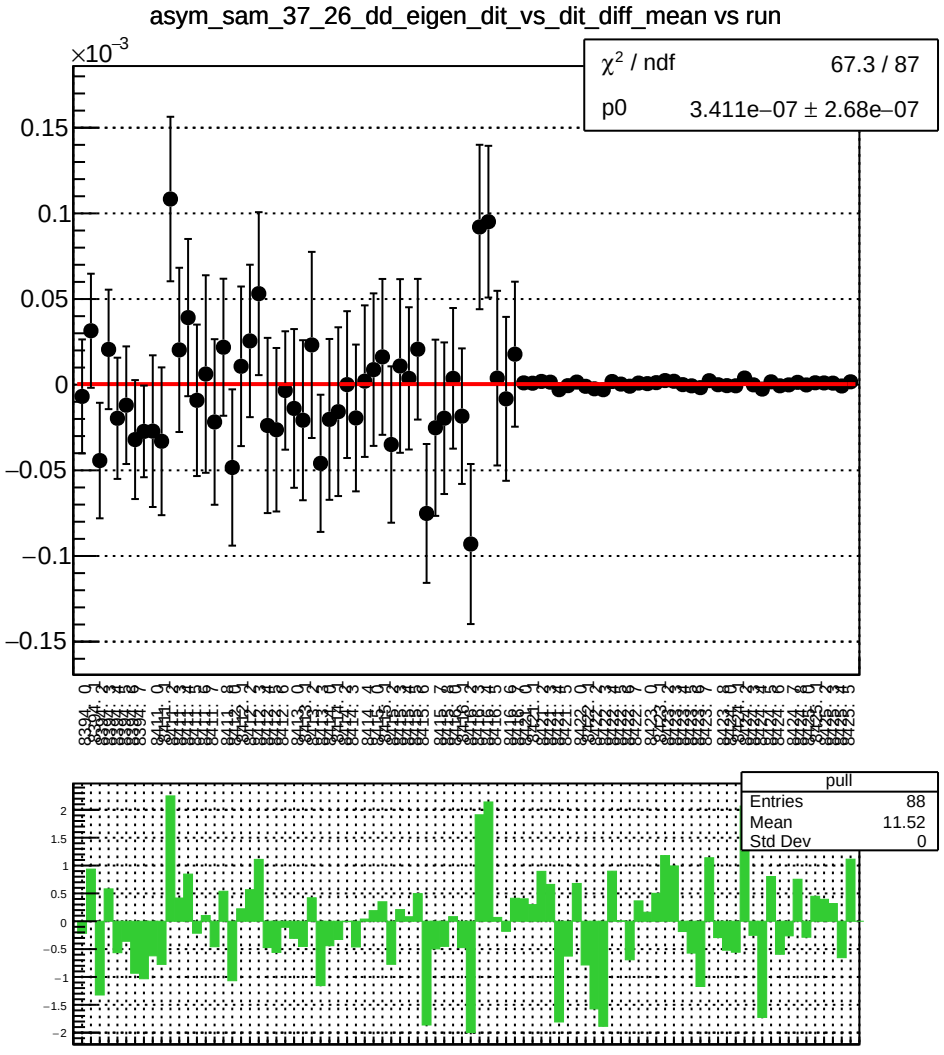

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 67.02 / 87
p0 −0.0373 ± 0.03646
pull
Entries 88
Mean −126.5
Std Dev 0

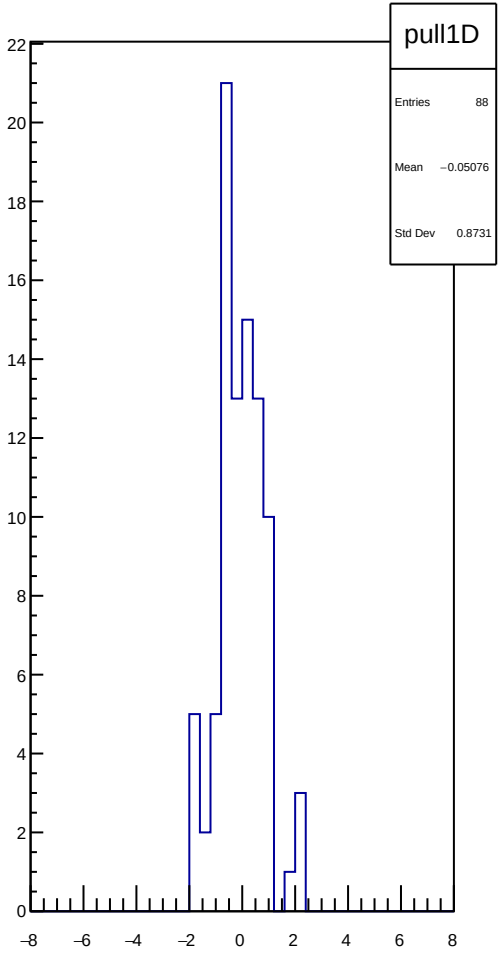

pull1D
Entries 88
Mean −0.0168
Std Dev 0.8725

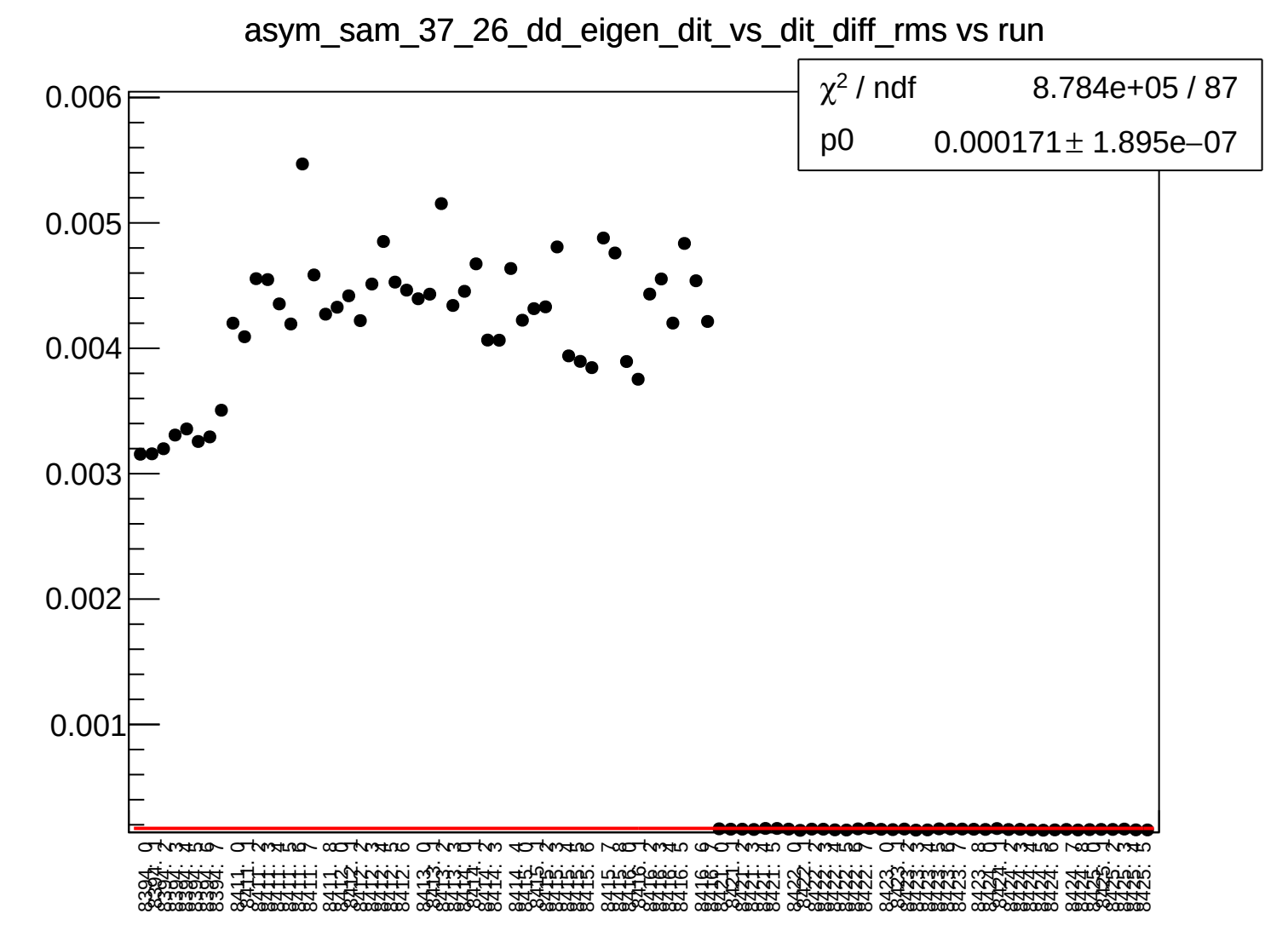

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.741e+05 / 87
p0 31.77 ± 0.02578
60
50
40
30
20

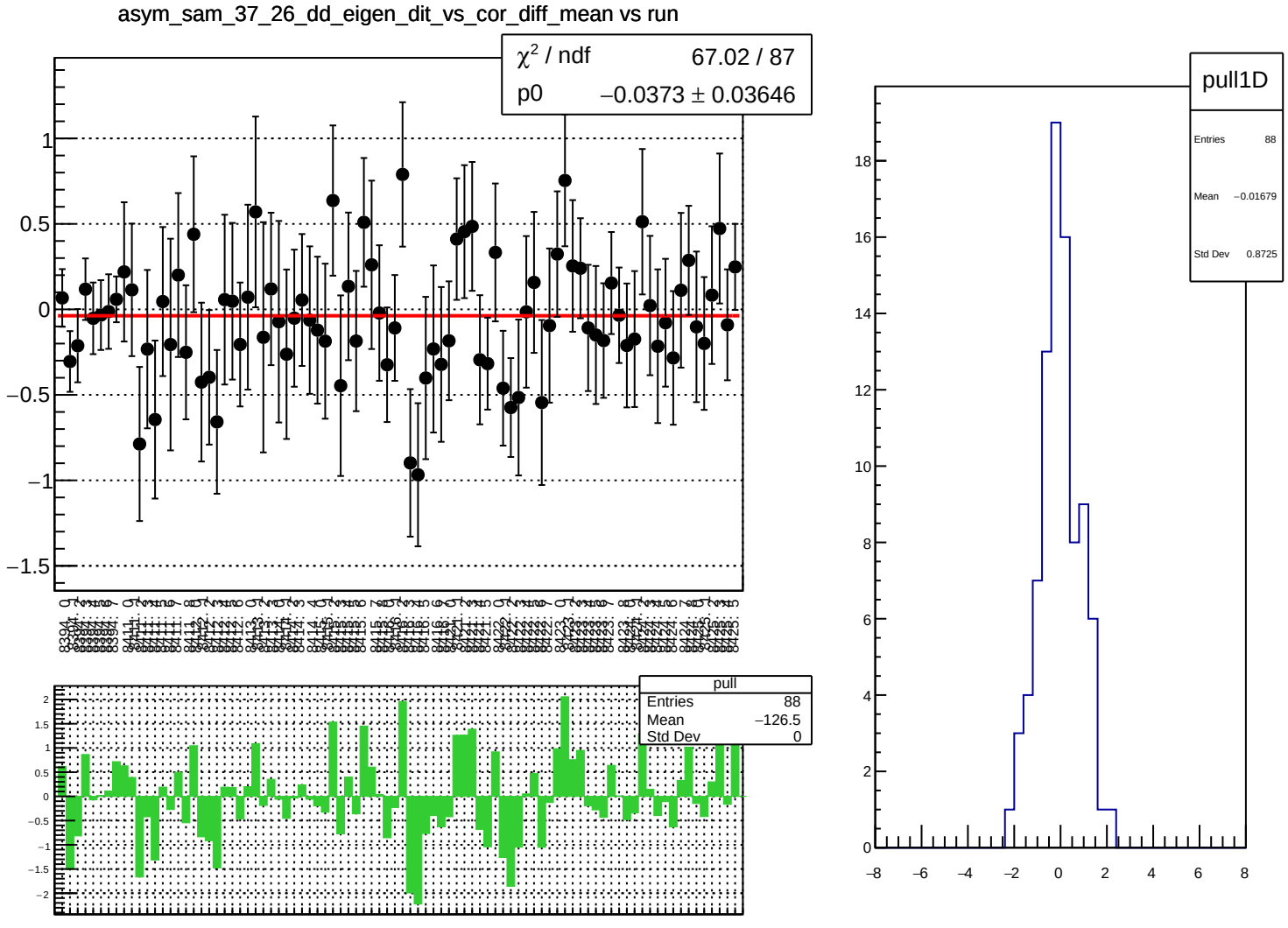

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.02 / 87
p0 −0.0373 ± 0.03646
pull
Entries 88
Mean −126.5
Std Dev 0
pull1D
Entries 88
Mean −0.0168
Std Dev 0.8725

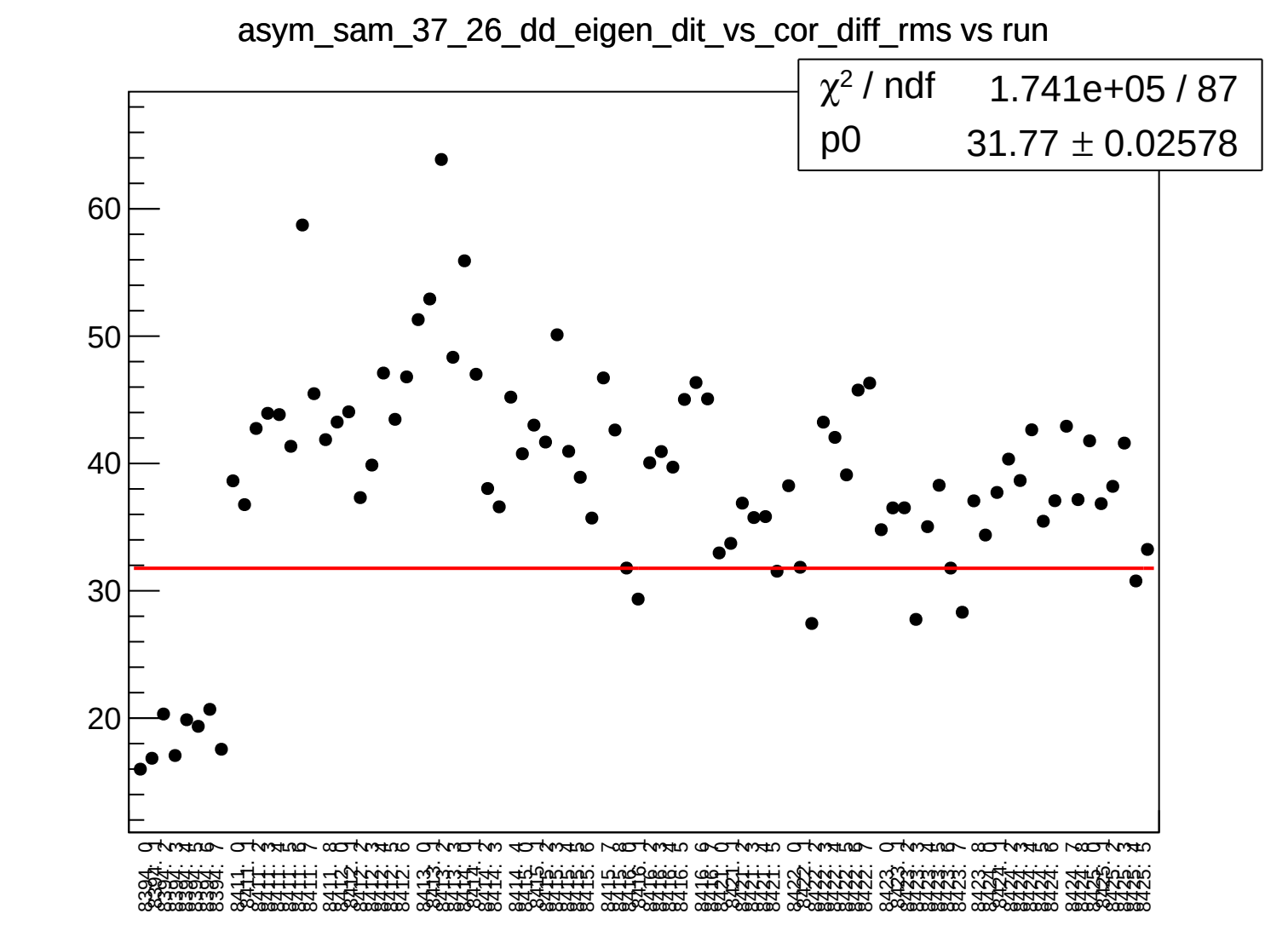

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.741e+05 / 87
p0 31.77 ± 0.02578
60
50
40
30
20

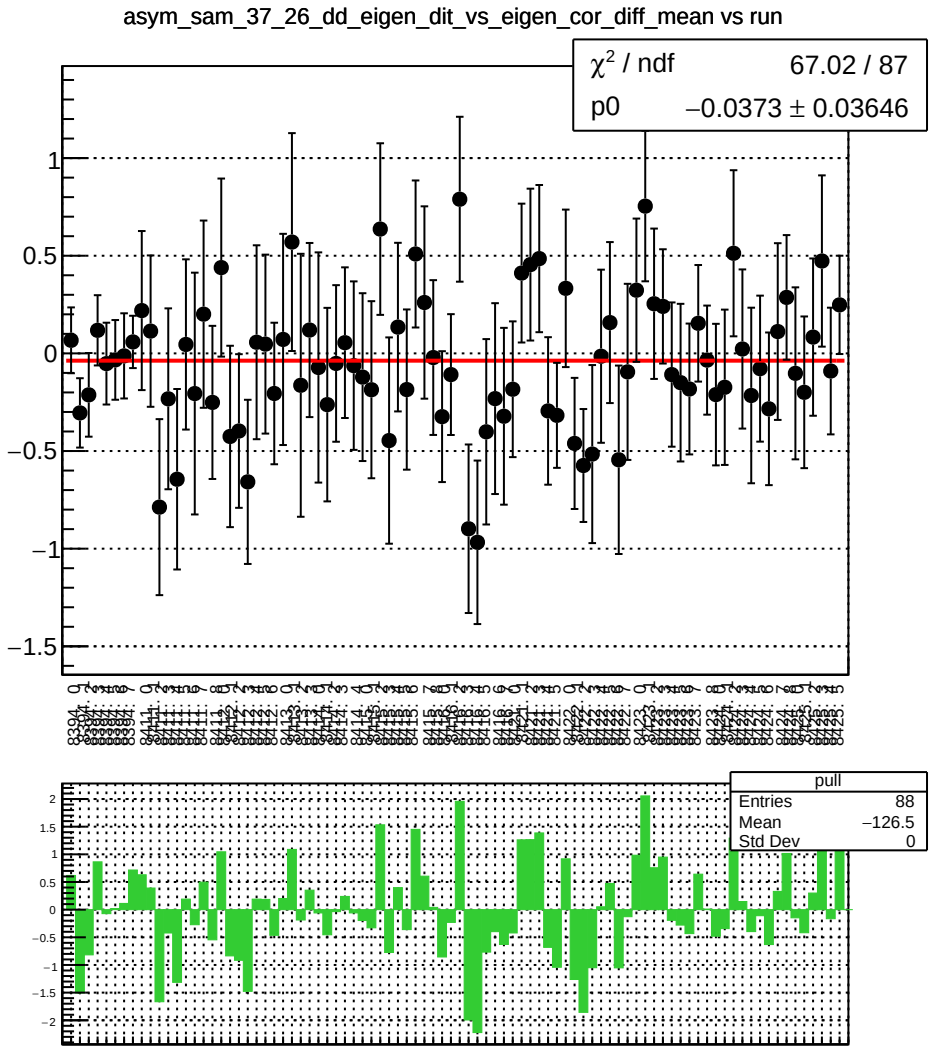

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 67.3 / 87
p0 3.411e−07 ± 2.68e−07
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 88
Mean 11.52
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

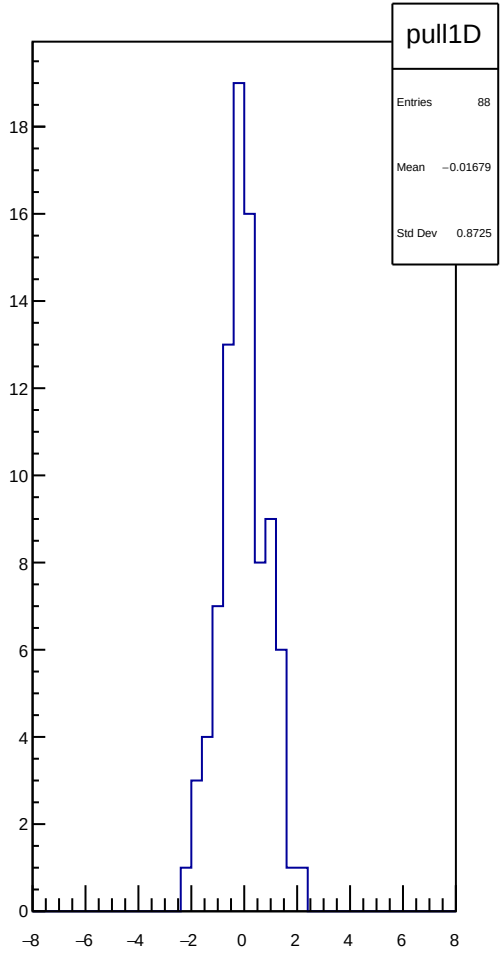

pull1D
Entries 88
Mean −0.05076
Std Dev 0.8731
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

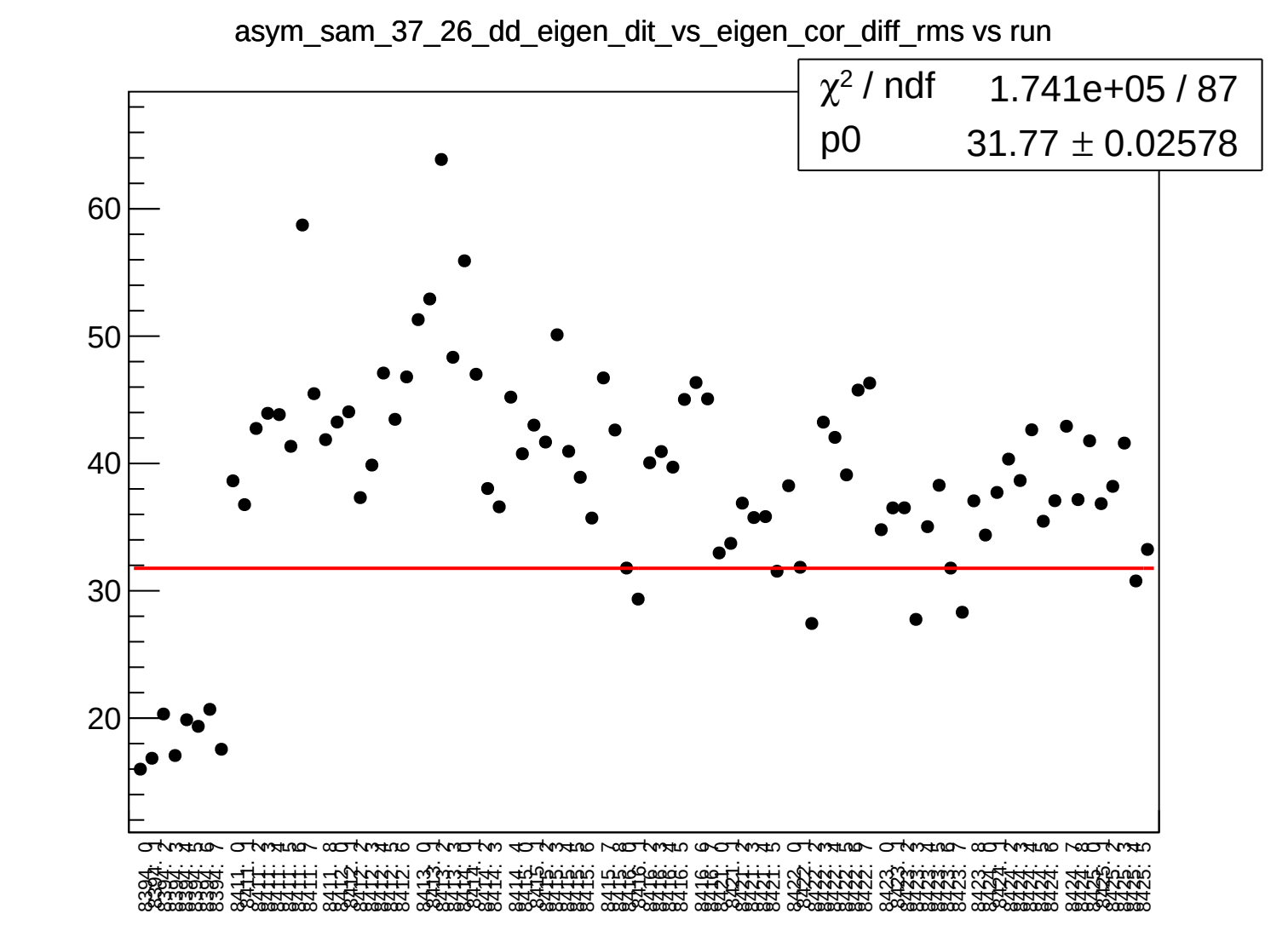

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.784e+05 / 87
p0 0.000171 ± 1.895e−07
0.006
0.005
0.004
0.003
0.002
0.001

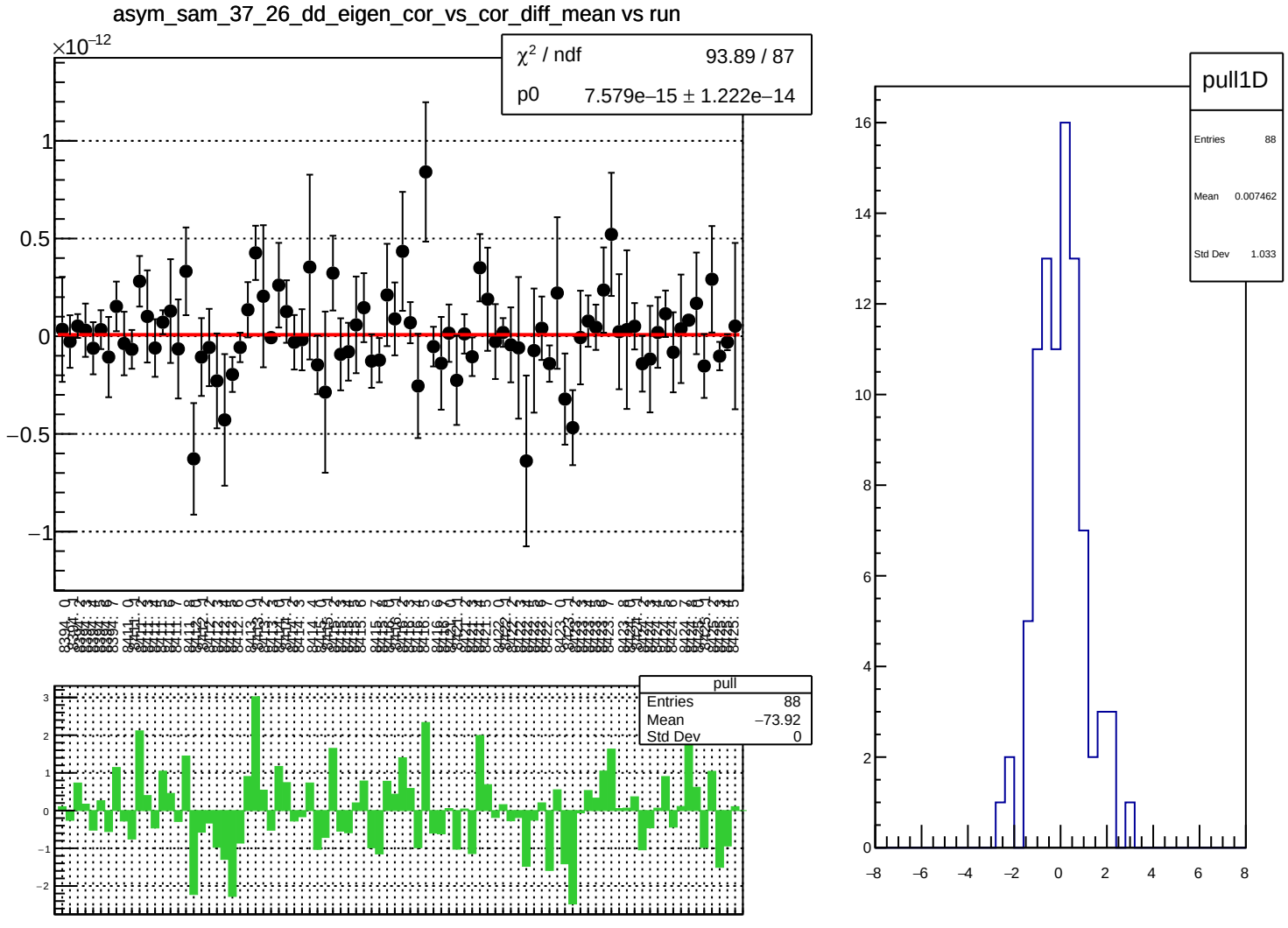

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.02 / 87
p0 −0.0373 ± 0.03646
pull
Entries 88
Mean −126.5
Std Dev 0
pull1D
Entries 88
Mean −0.01679
Std Dev 0.8725

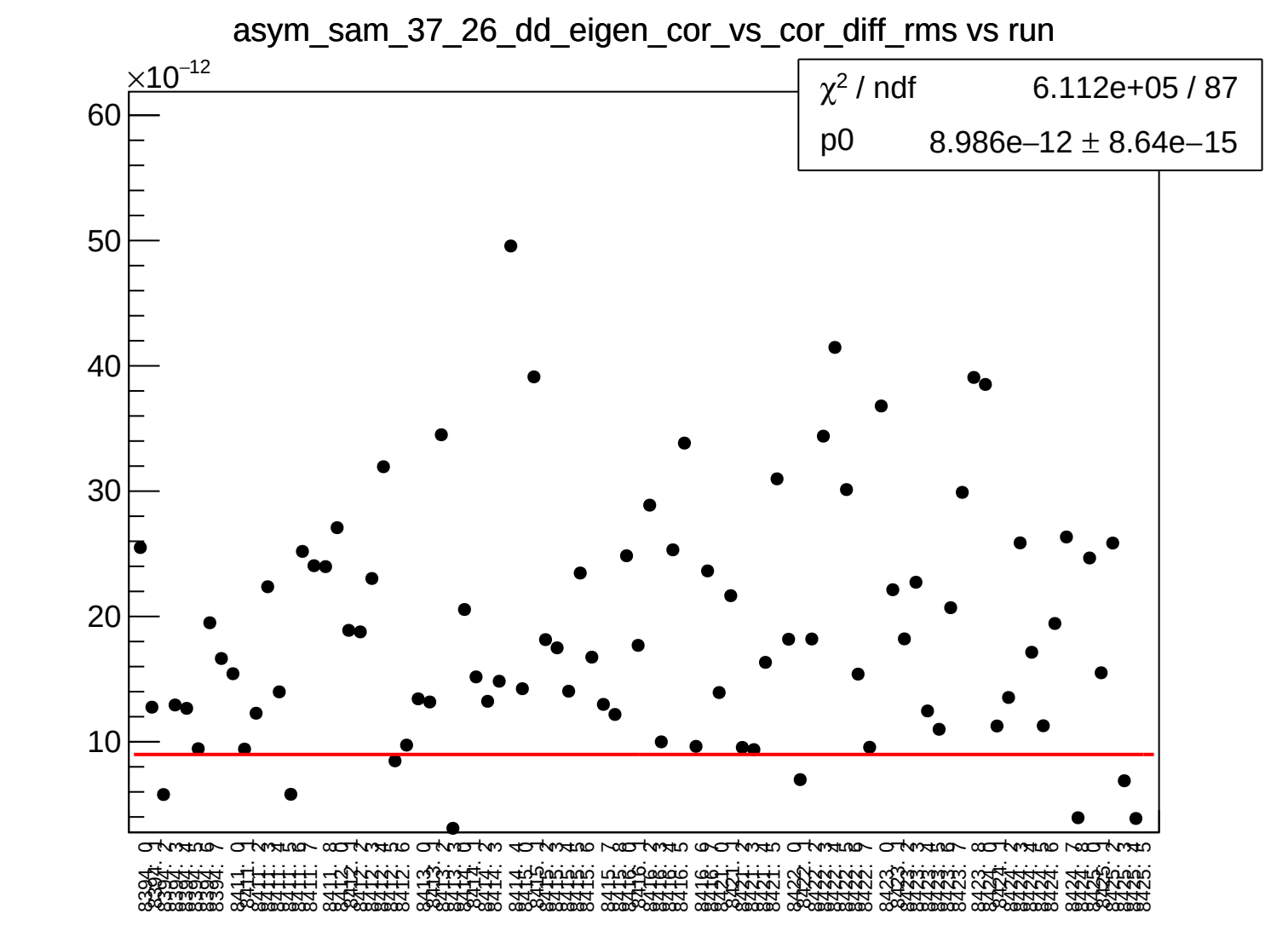

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.741e+05 / 87
p0 31.77 ± 0.02578
60
50
40
30
20

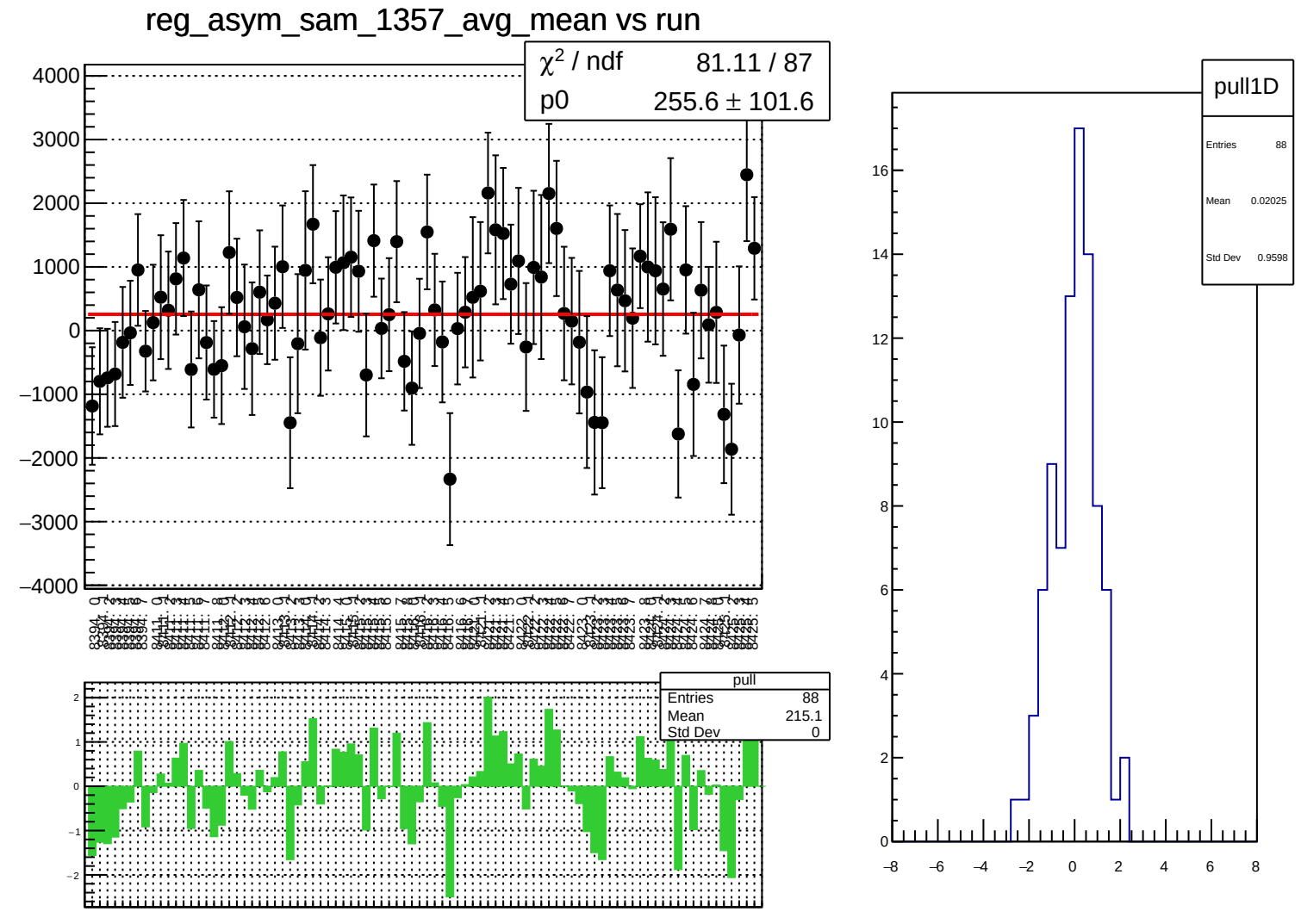

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.02 / 87
p0 −0.0373 ± 0.03646
pull
Entries 88
Mean −126.5
Std Dev 0

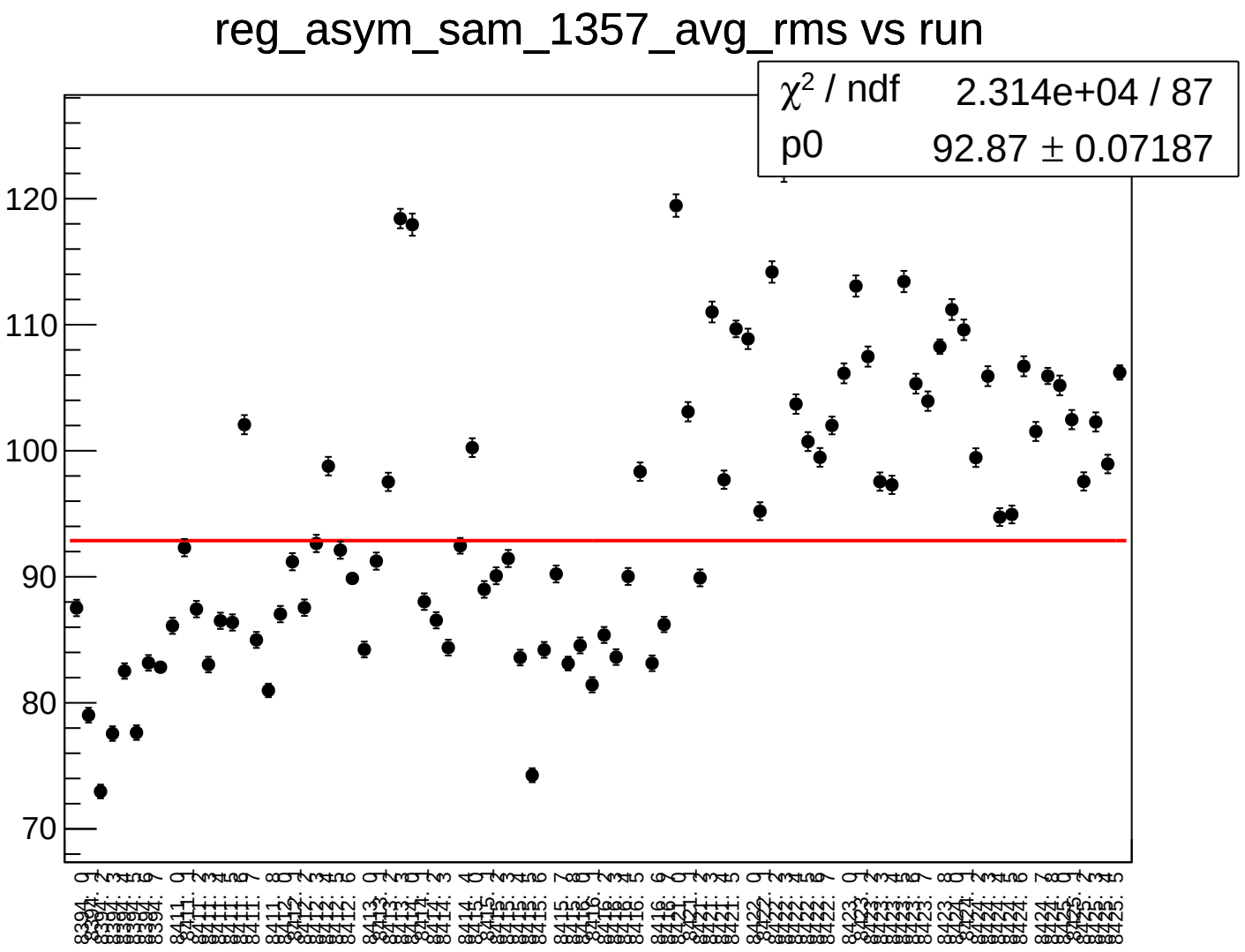

pull1D
Entries 88
Mean −0.01679
Std Dev 0.8725

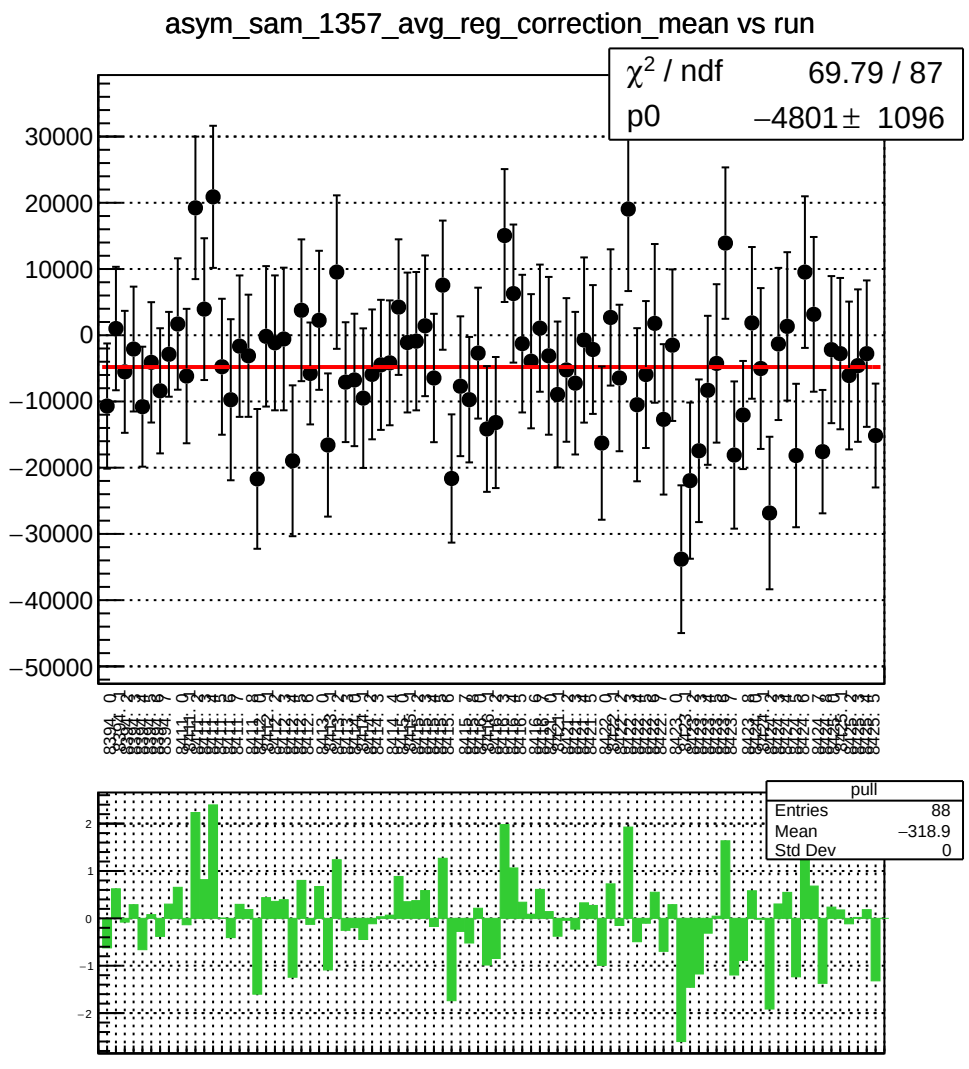

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.741e+05 / 87
p0 31.77 ± 0.02578
60
50
40
30
20

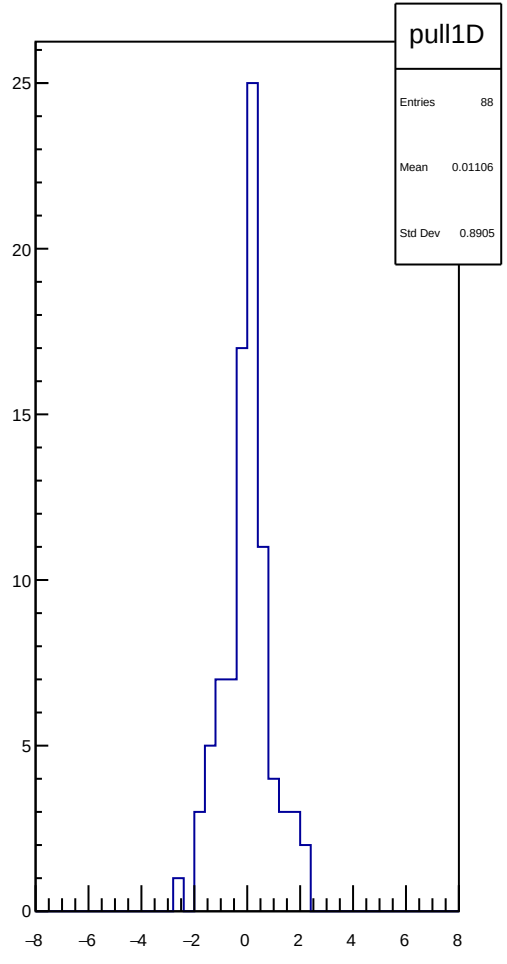

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.89 / 87
p0 7.579e−15 ± 1.222e−14
pull
Entries 88
Mean −73.92
Std Dev 0
pull1D
Entries 88
Mean 0.007462
Std Dev 1.033

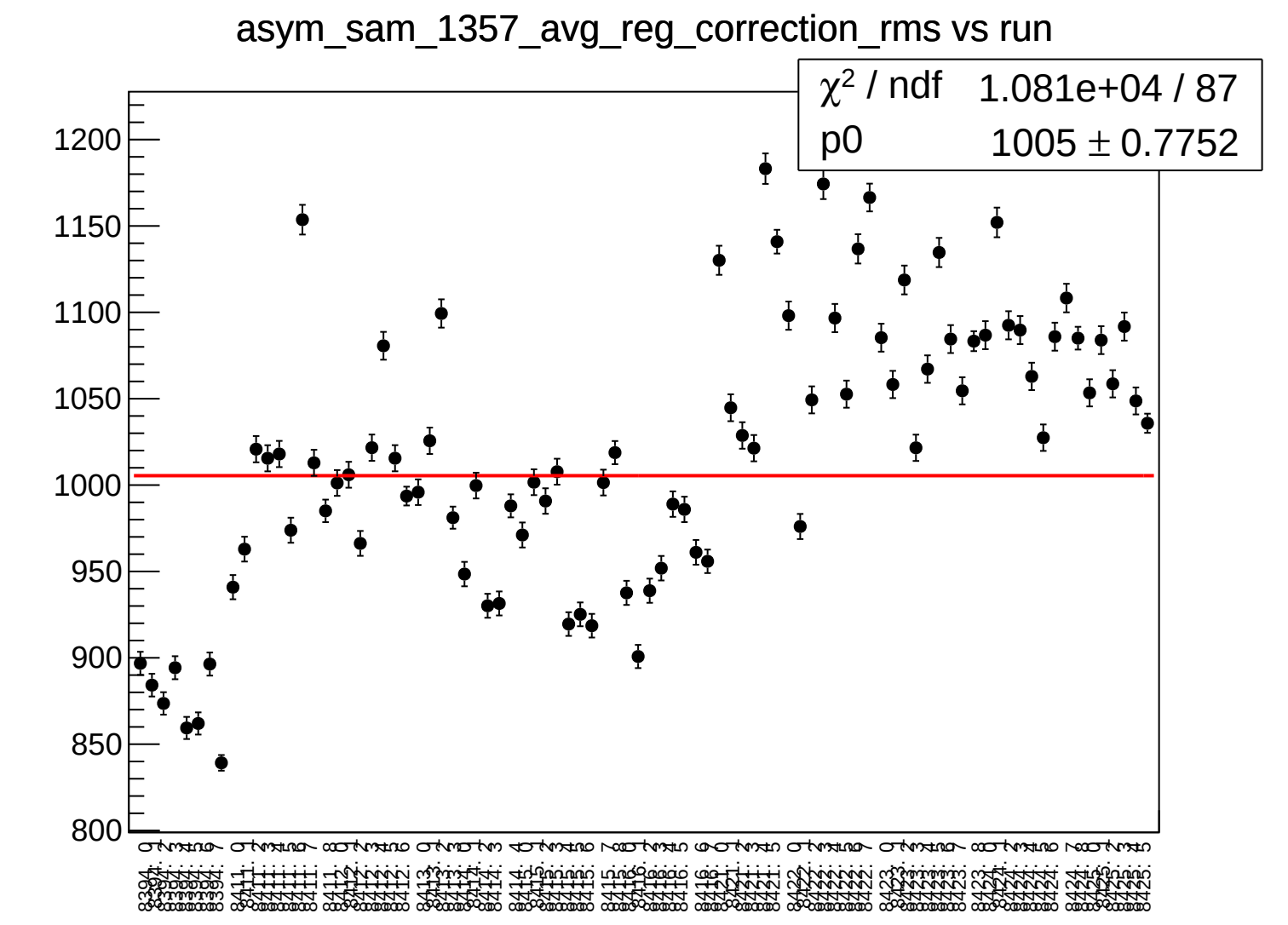

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.112e+05 / 87
p0 8.986e−12 ± 8.64e−15
60
50
40
30
20
10

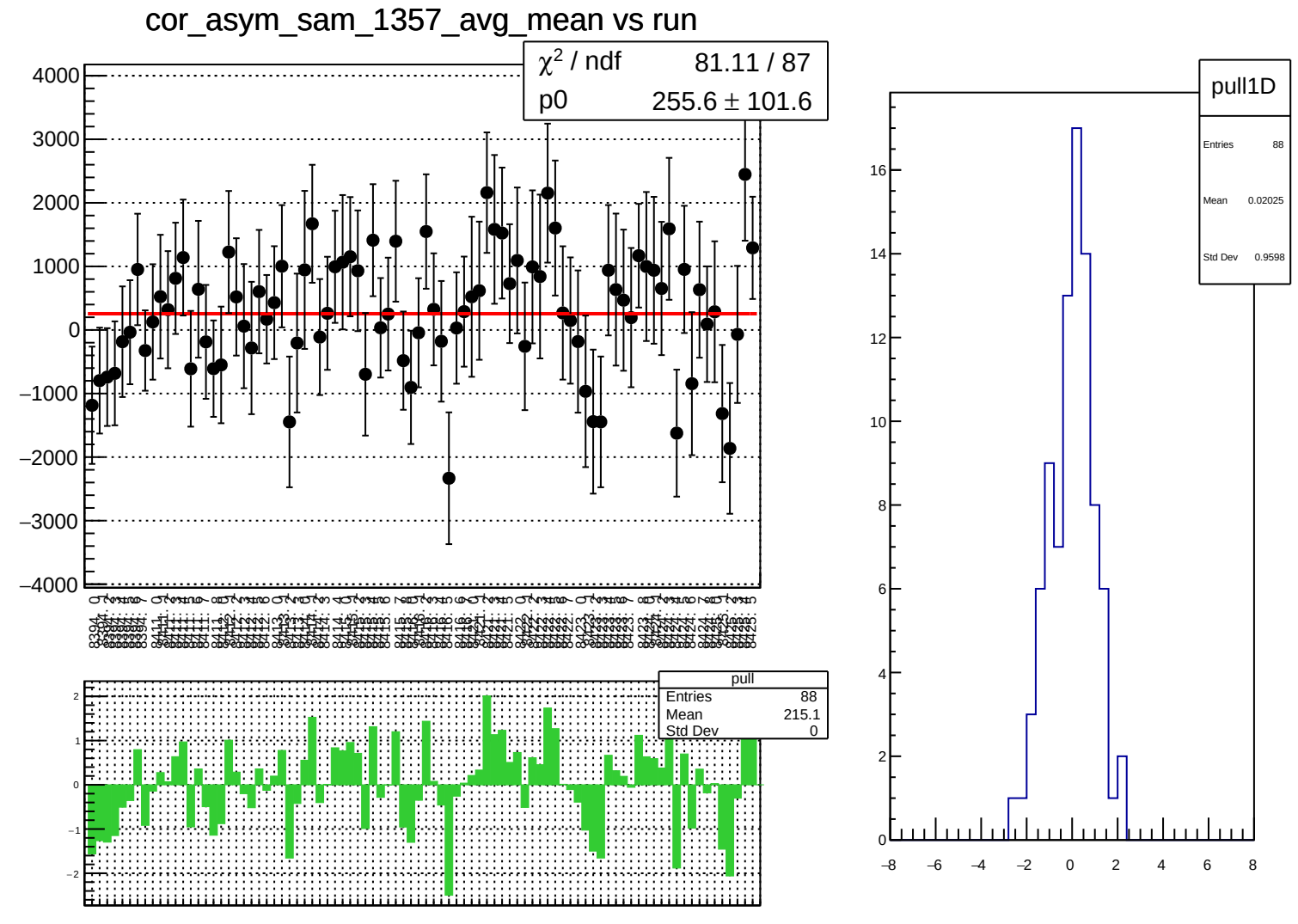

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 81.11 / 87
p0 255.6 ± 101.6
pull
Entries 88
Mean 215.1
Std Dev 0
pull1D
Entries 88
Mean 0.02025
Std Dev 0.9598

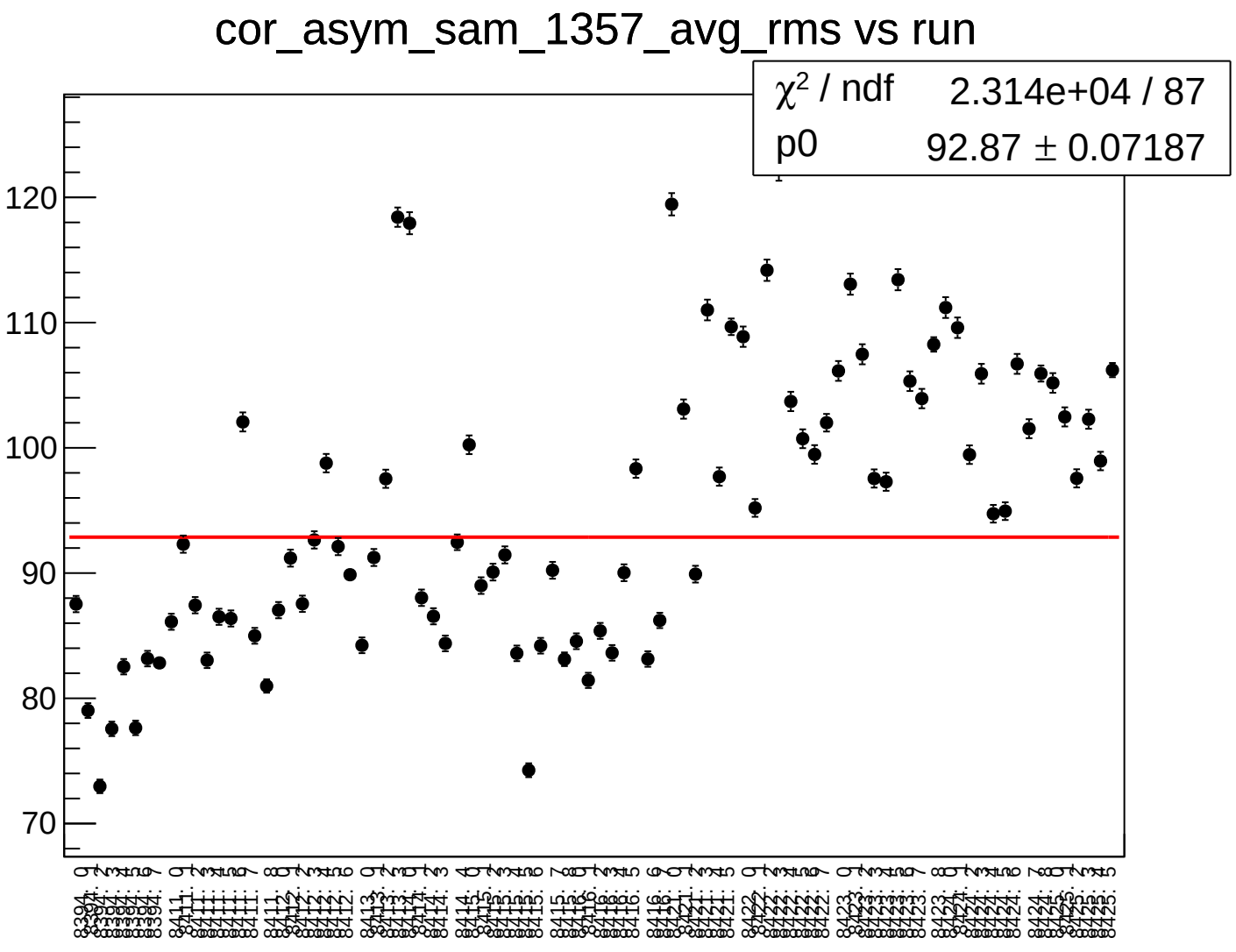

reg_asym_sam_1357_avg_rms vs run
χ^2 / ndf 2.314e+04 / 87
p0 92.87 ± 0.07187
120
110
100
90
80
70

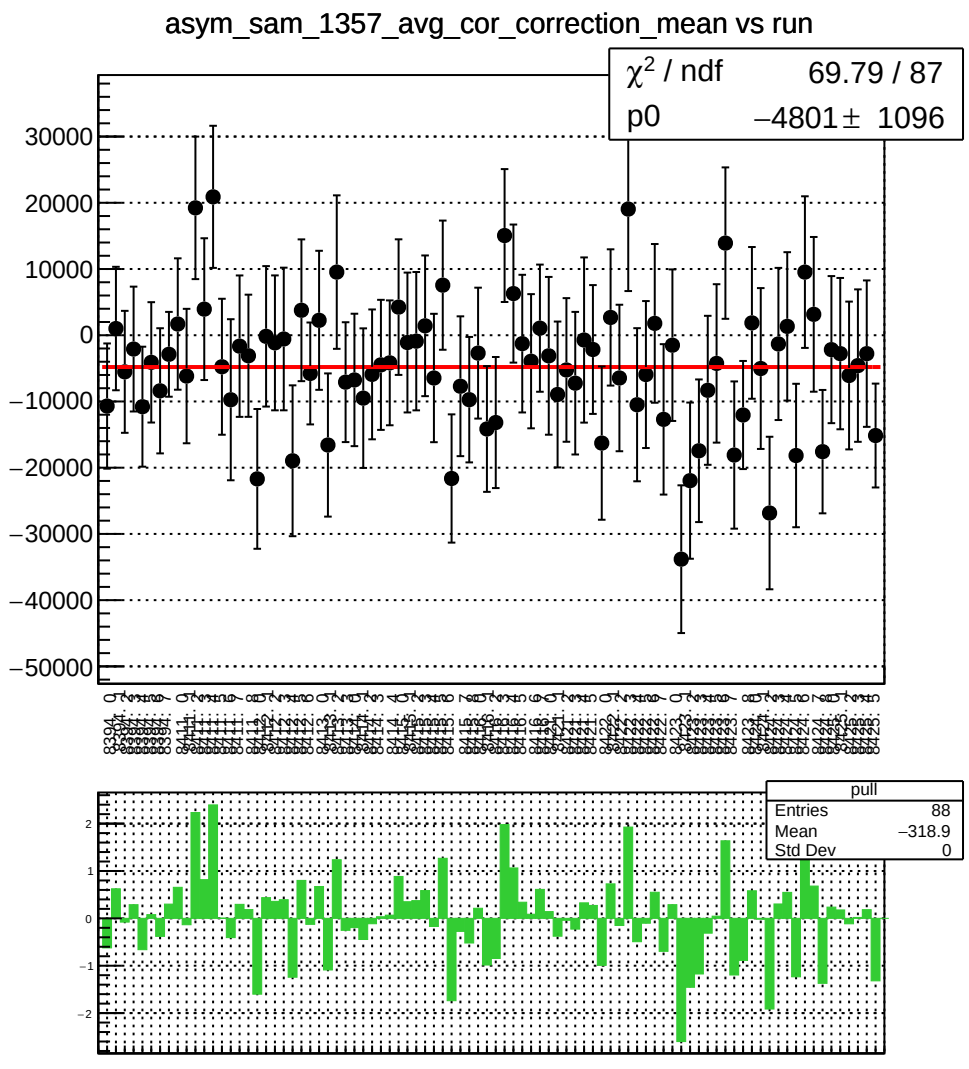

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 69.79 / 87
p0 −4801 ± 1096
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 88
Mean −318.9
Std Dev 0
2
1
0
−1
−2

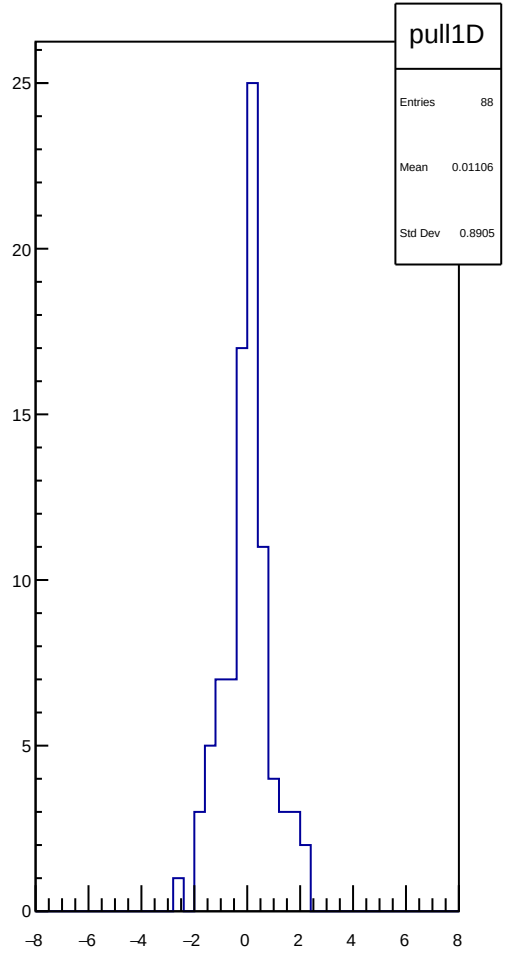

pull1D
Entries 88
Mean 0.01106
Std Dev 0.8905
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

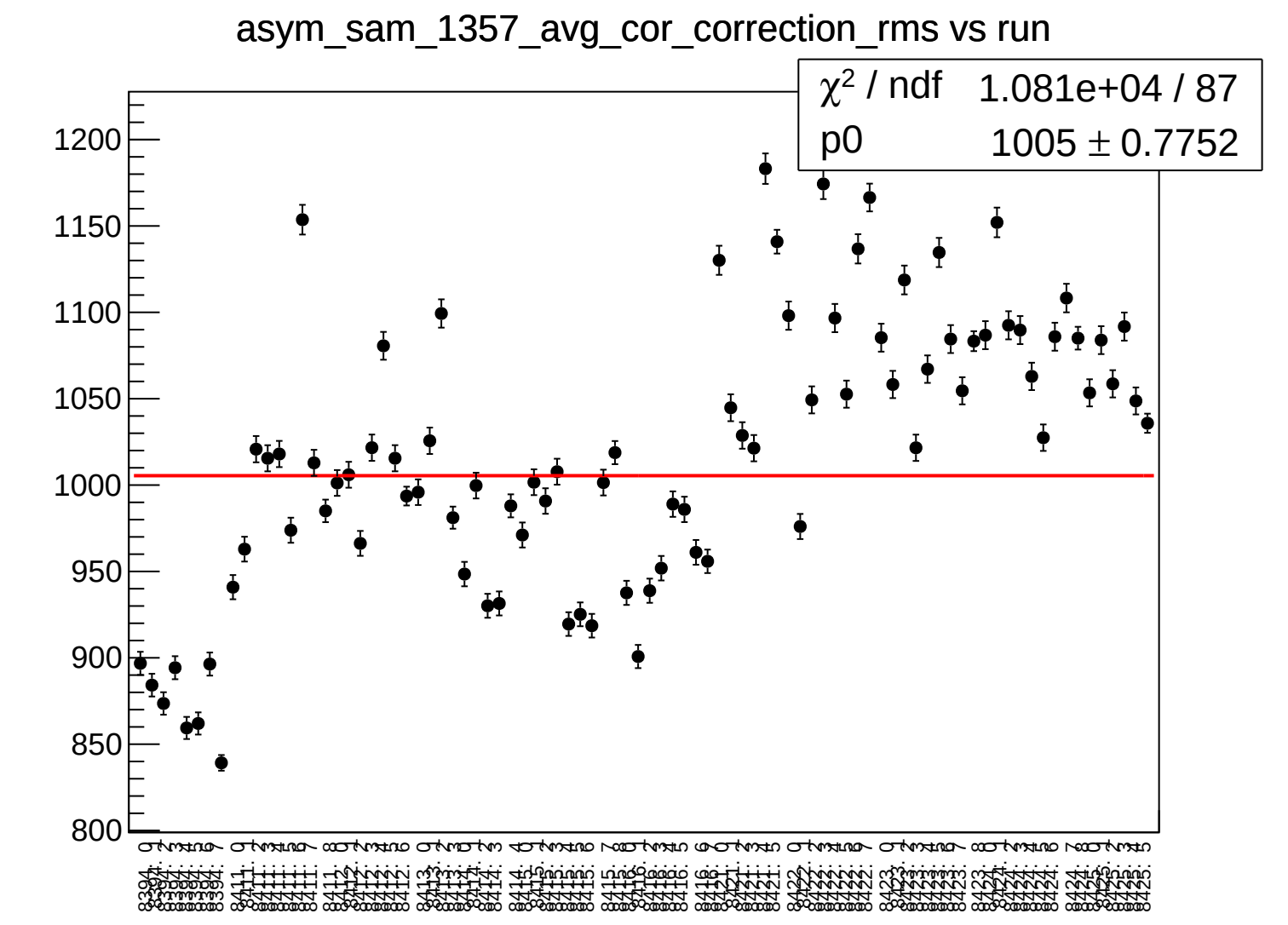

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 1.081e+04 / 87
p0 1005 ± 0.7752
1200
1150
1100
1050
1000
950
900
850
800

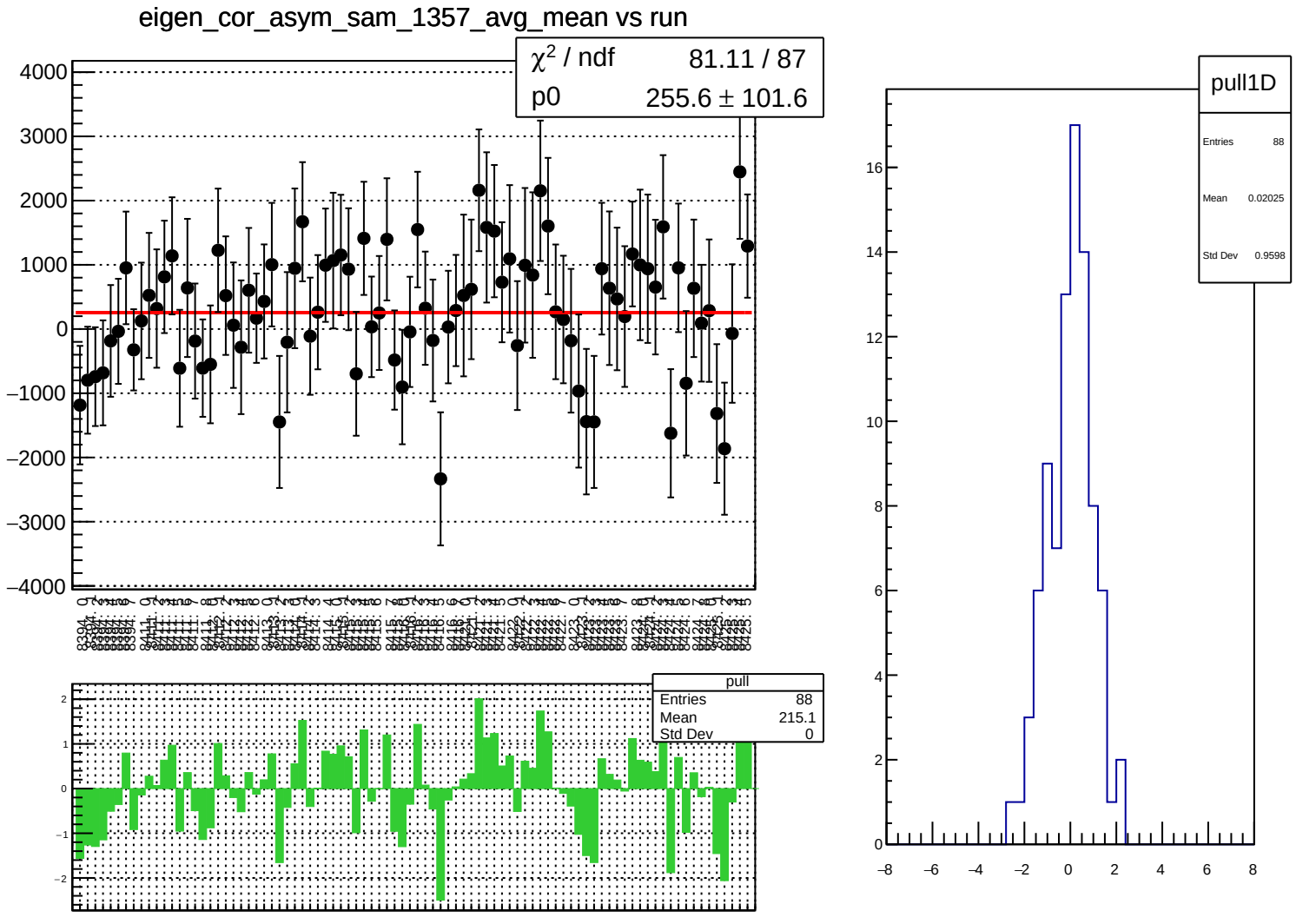

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 81.11 / 87
p0 255.6 ± 101.6
pull
Entries 88
Mean 215.1
Std Dev 0
pull1D
Entries 88
Mean 0.02025
Std Dev 0.9598

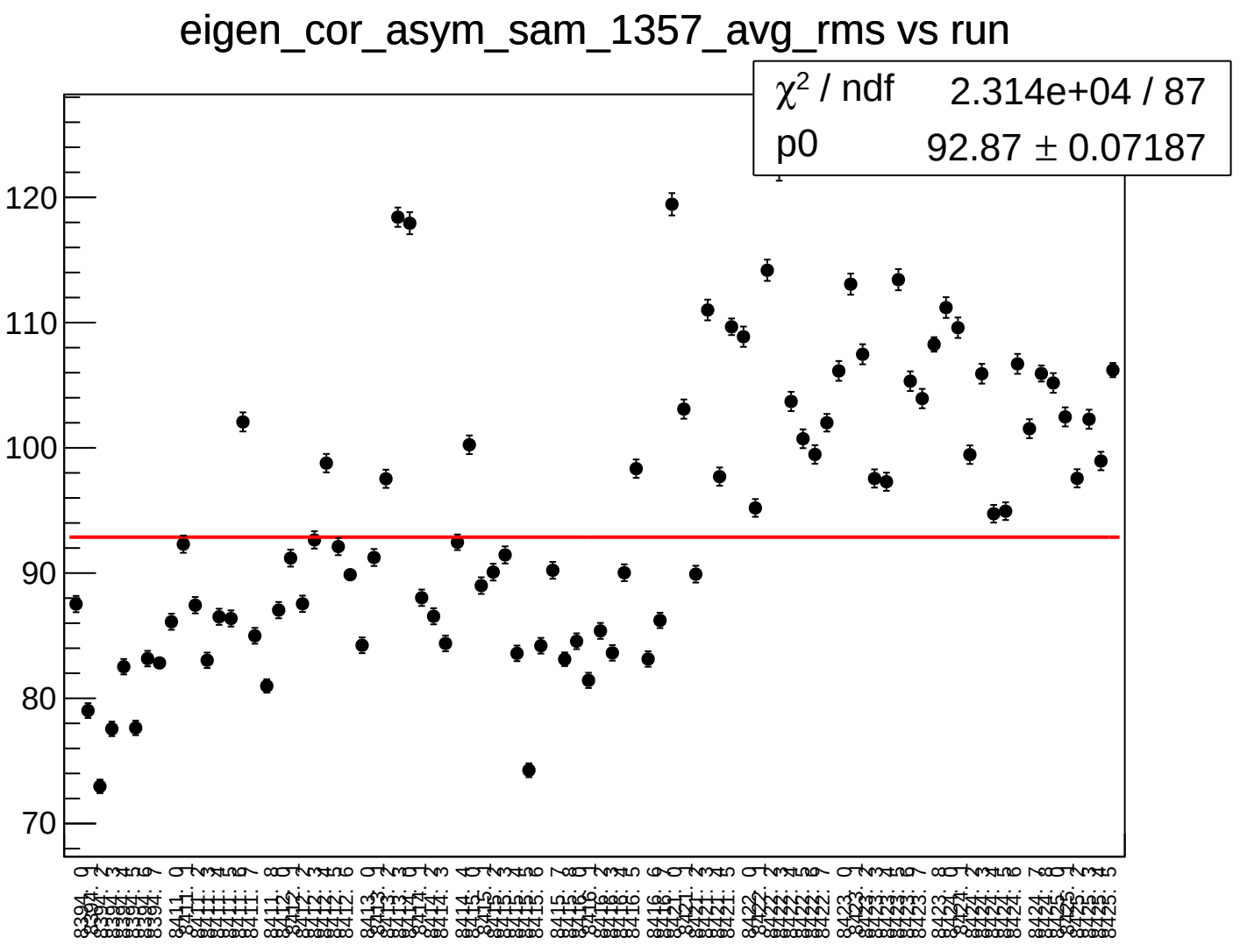

cor_asym_sam_1357_avg_rms vs run
χ² / ndf 2.314e+04 / 87
p0 92.87 ± 0.07187
120
110
100
90
80
70

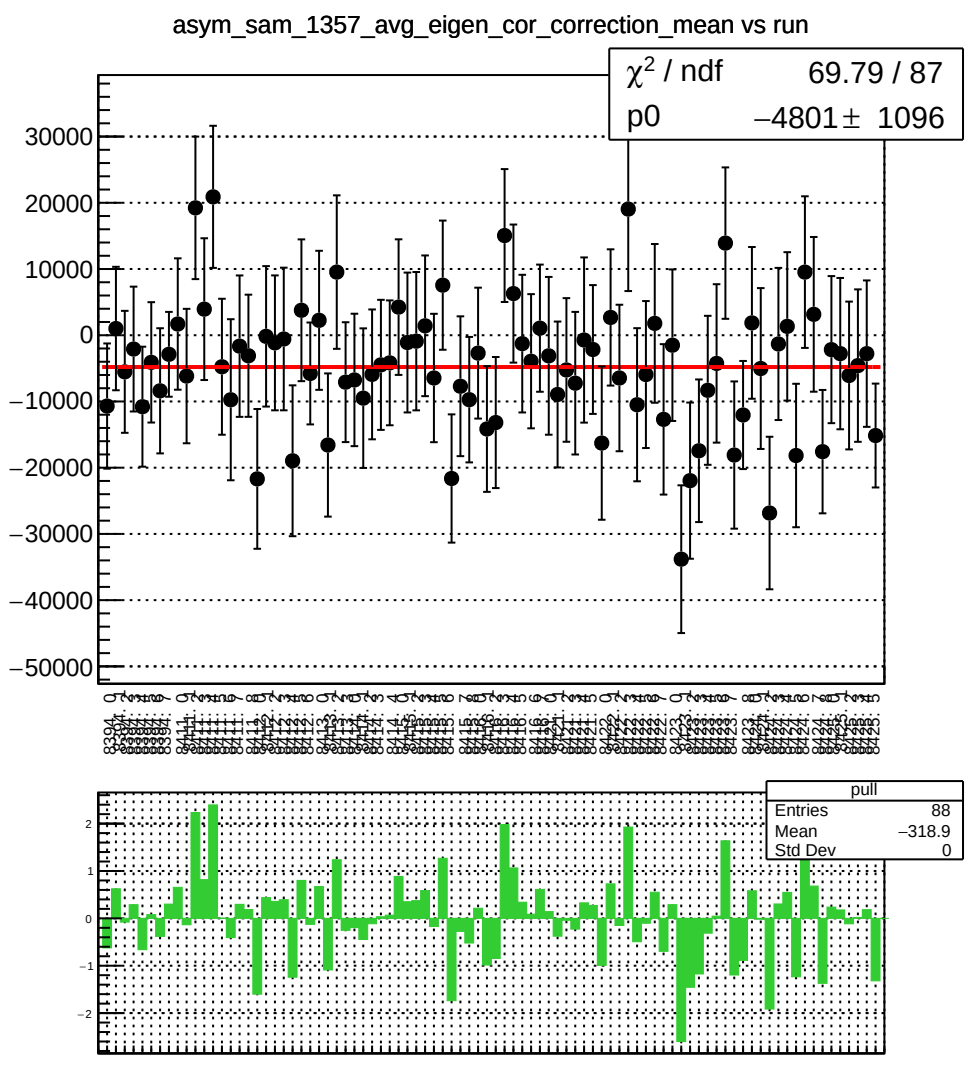

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 69.79 / 87
p0 −4801 ± 1096
pull
Entries 88
Mean −318.9
Std Dev 0

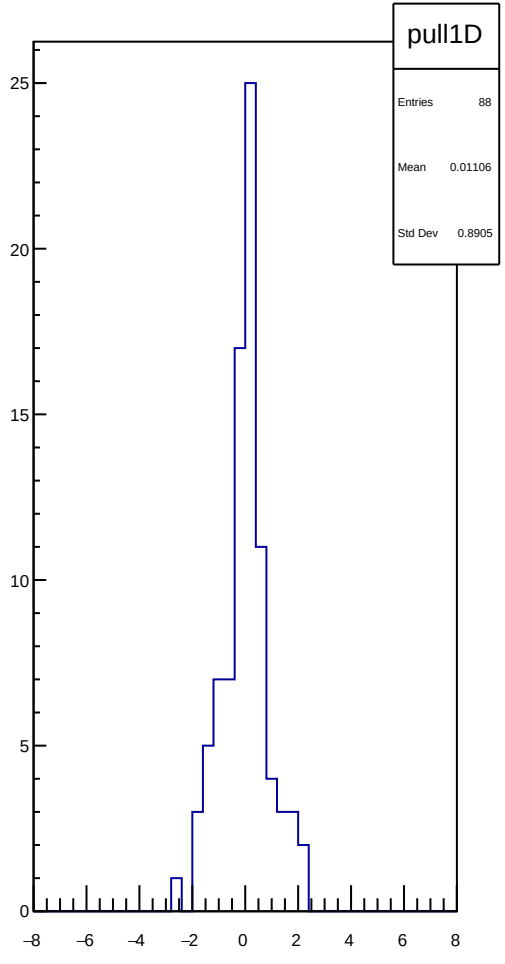

pull1D
Entries 88
Mean 0.01106
Std Dev 0.8905

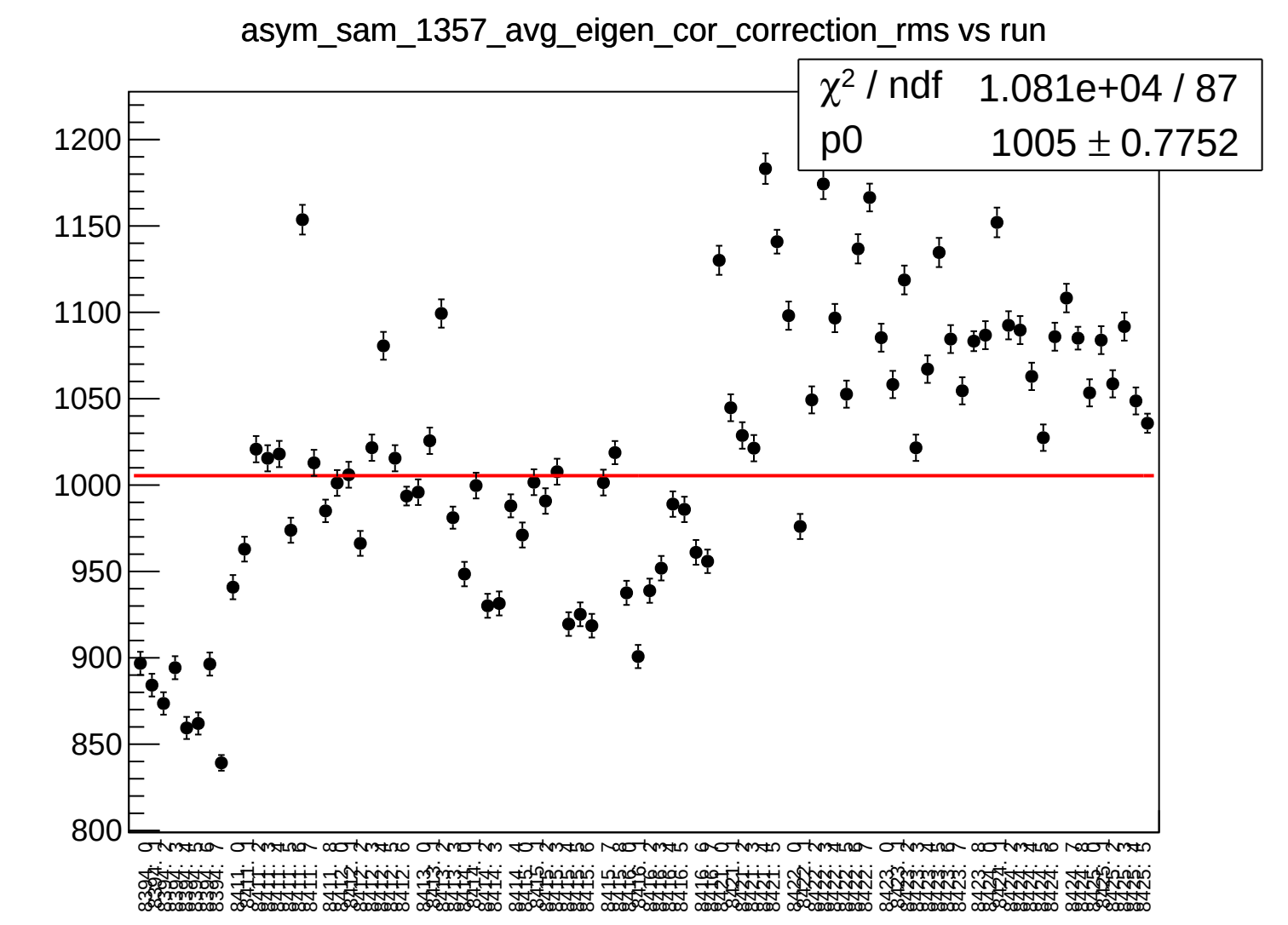

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 1.081e+04 / 87
p0 1005 ± 0.7752
1200
1150
1100
1050
1000
950
900
850
800

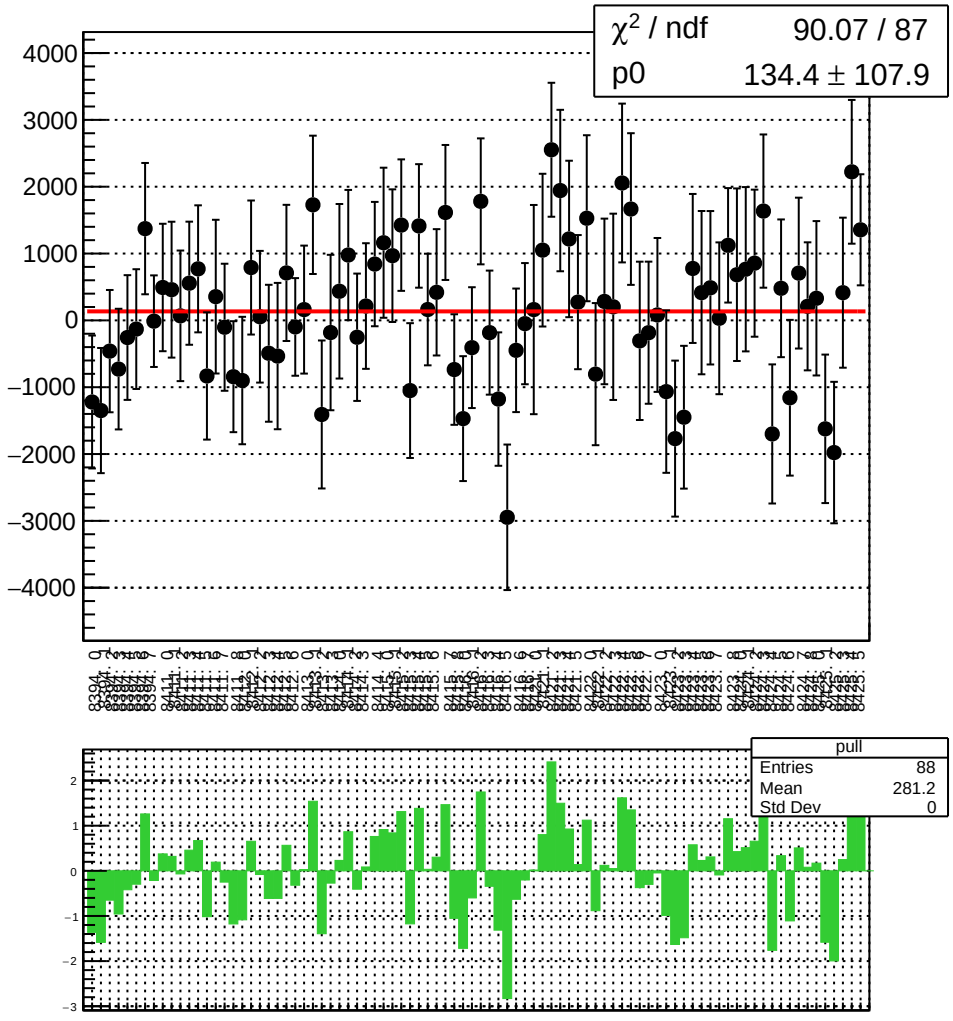

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 81.11 / 87
p0 255.6 ± 101.6
pull
Entries 88
Mean 215.1
Std Dev 0
pull1D
Entries 88
Mean 0.02025
Std Dev 0.9598

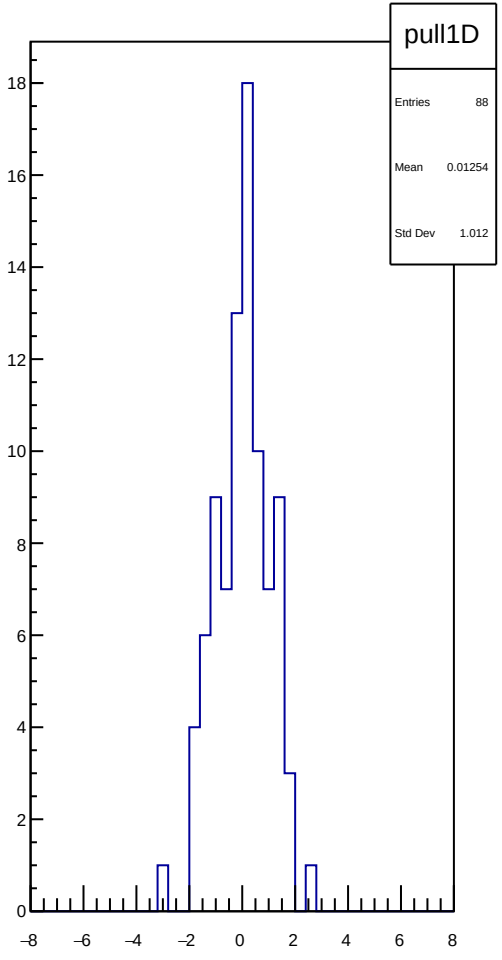

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 2.314e+04 / 87
p0 92.87 ± 0.07187
120
110
100
90
80
70

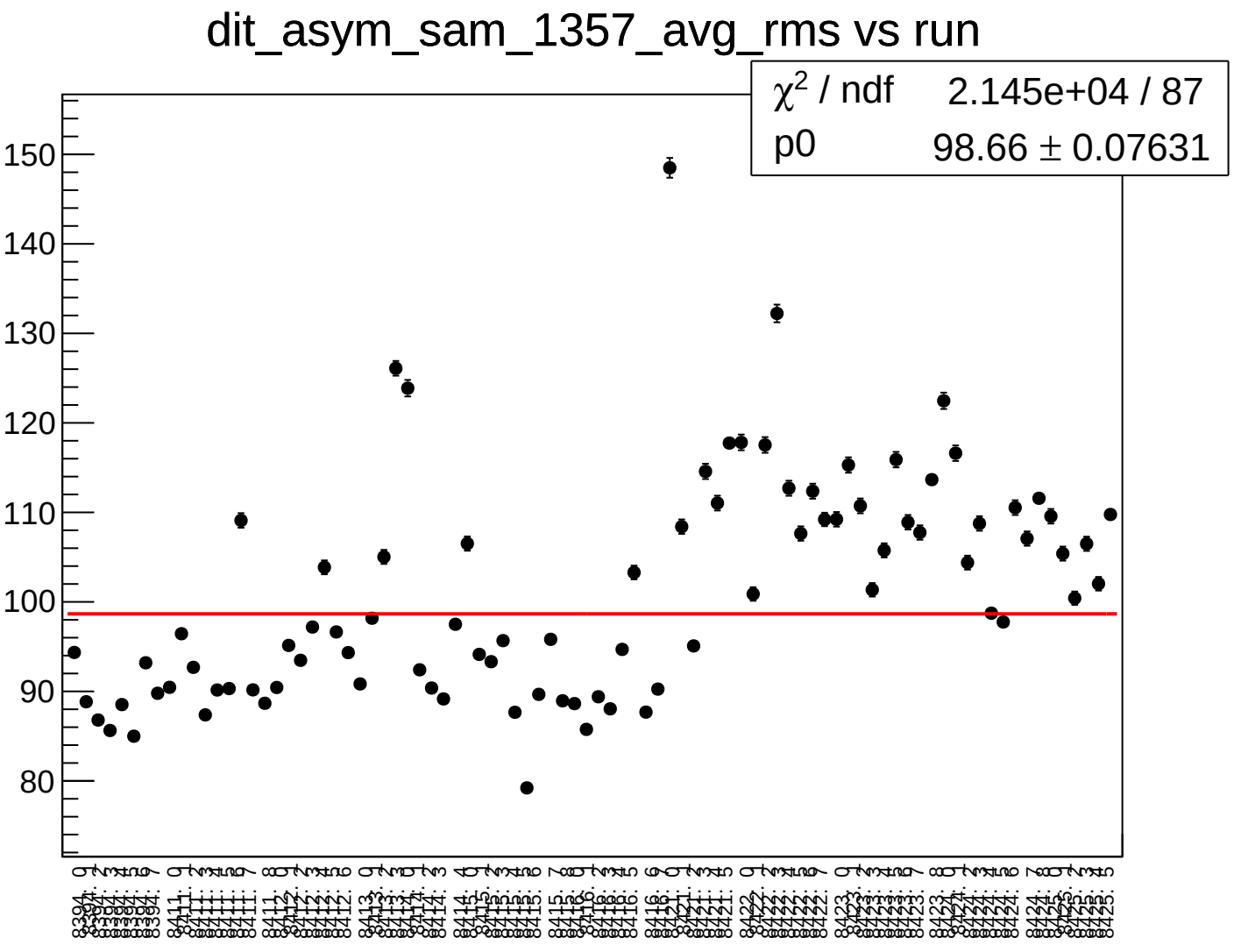

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 69.79 / 87
p0 −4801 ± 1096
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 88
Mean −318.9
Std Dev 0
2
1
0
−1
−2

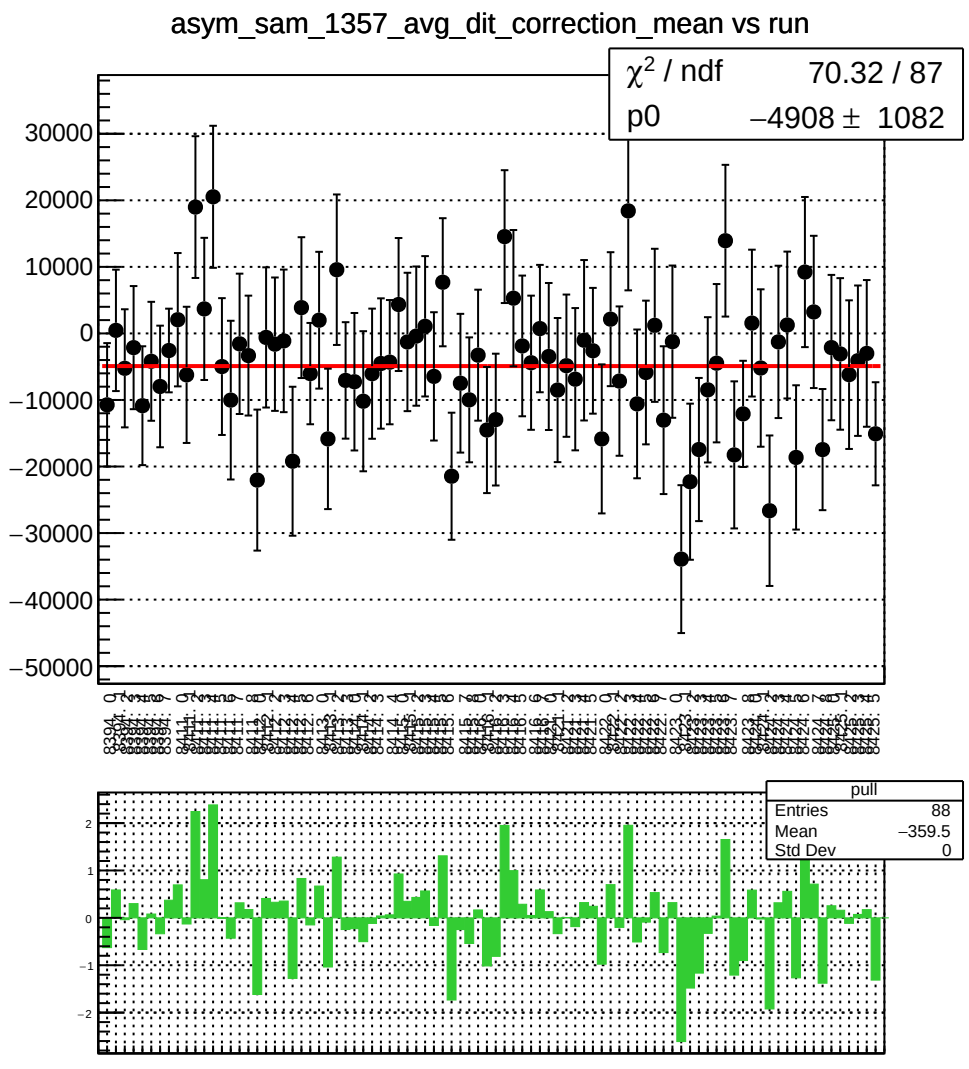

pull1D
Entries 88
Mean 0.01106
Std Dev 0.8905
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

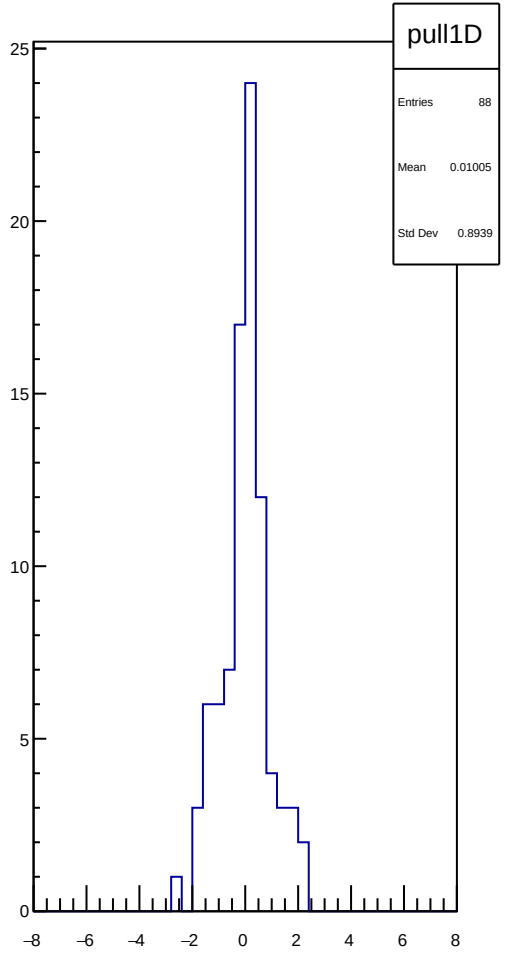

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.081e+04 / 87
p0 1005 ± 0.7752
1200
1150
1100
1050
1000
950
900
850
800

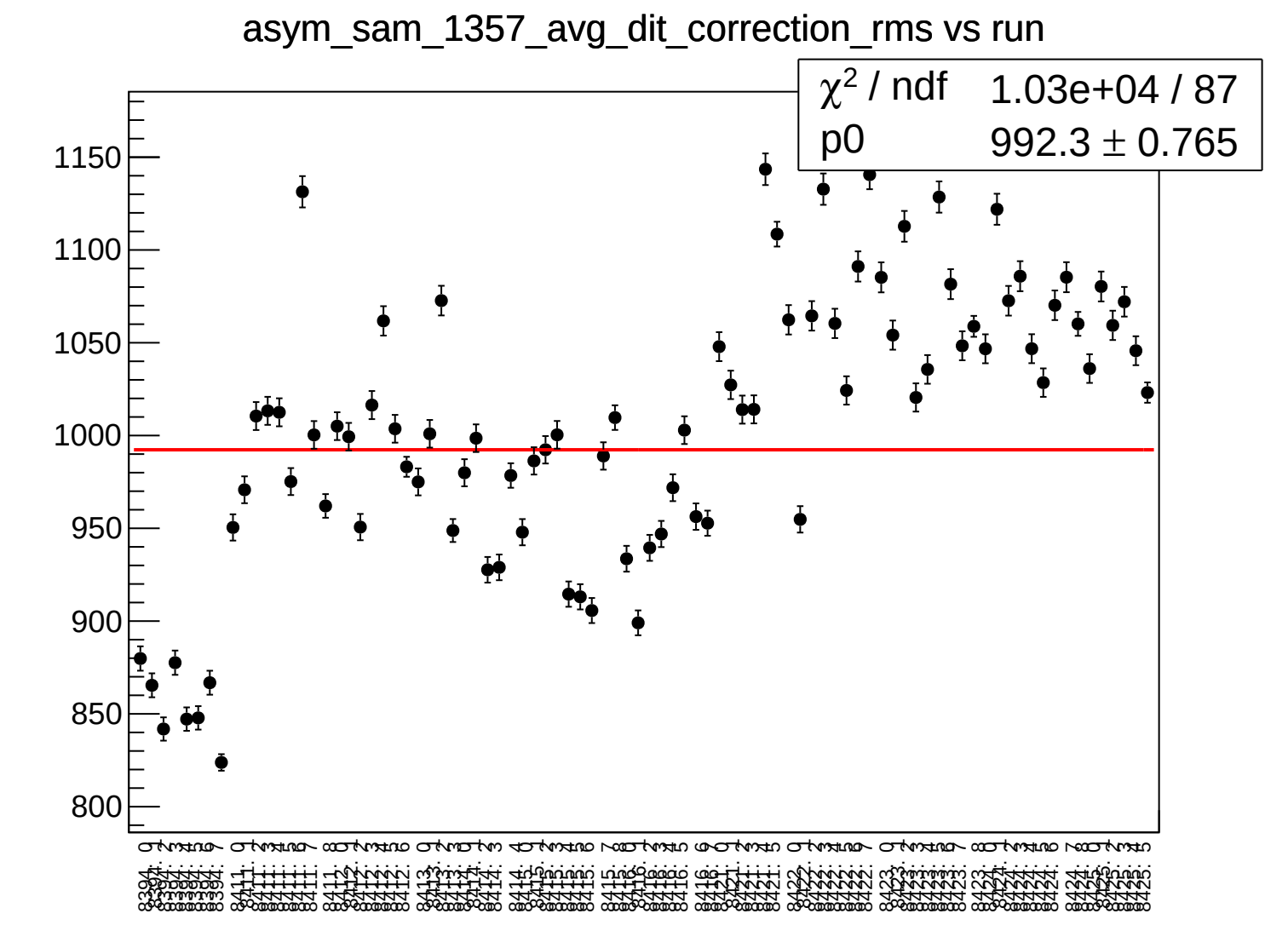

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 90.07 / 87
p0 134.4 ± 107.9
pull
Entries 88
Mean 281.2
Std Dev 0

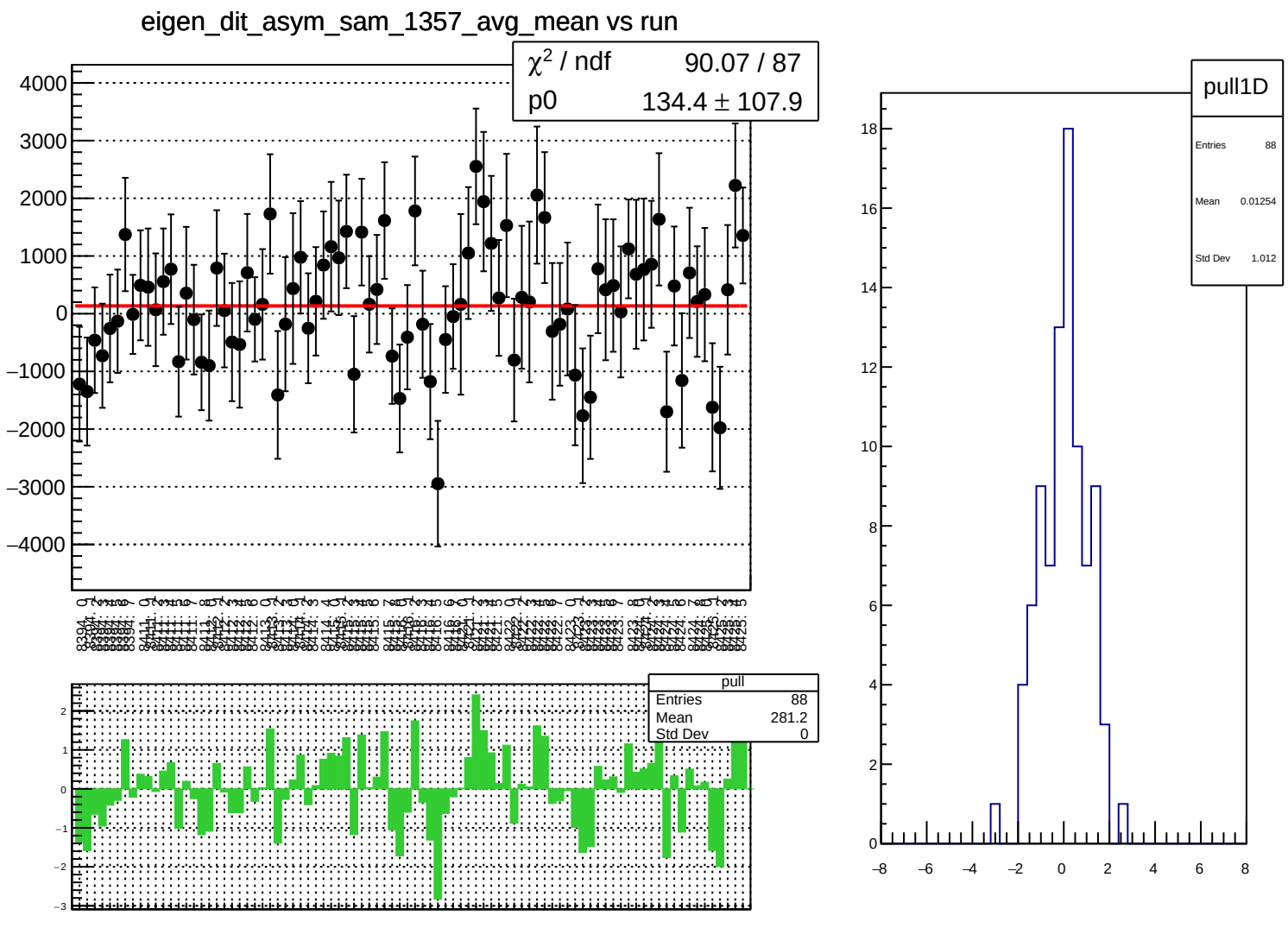

pull1D
Entries 88
Mean 0.01254
Std Dev 1.012

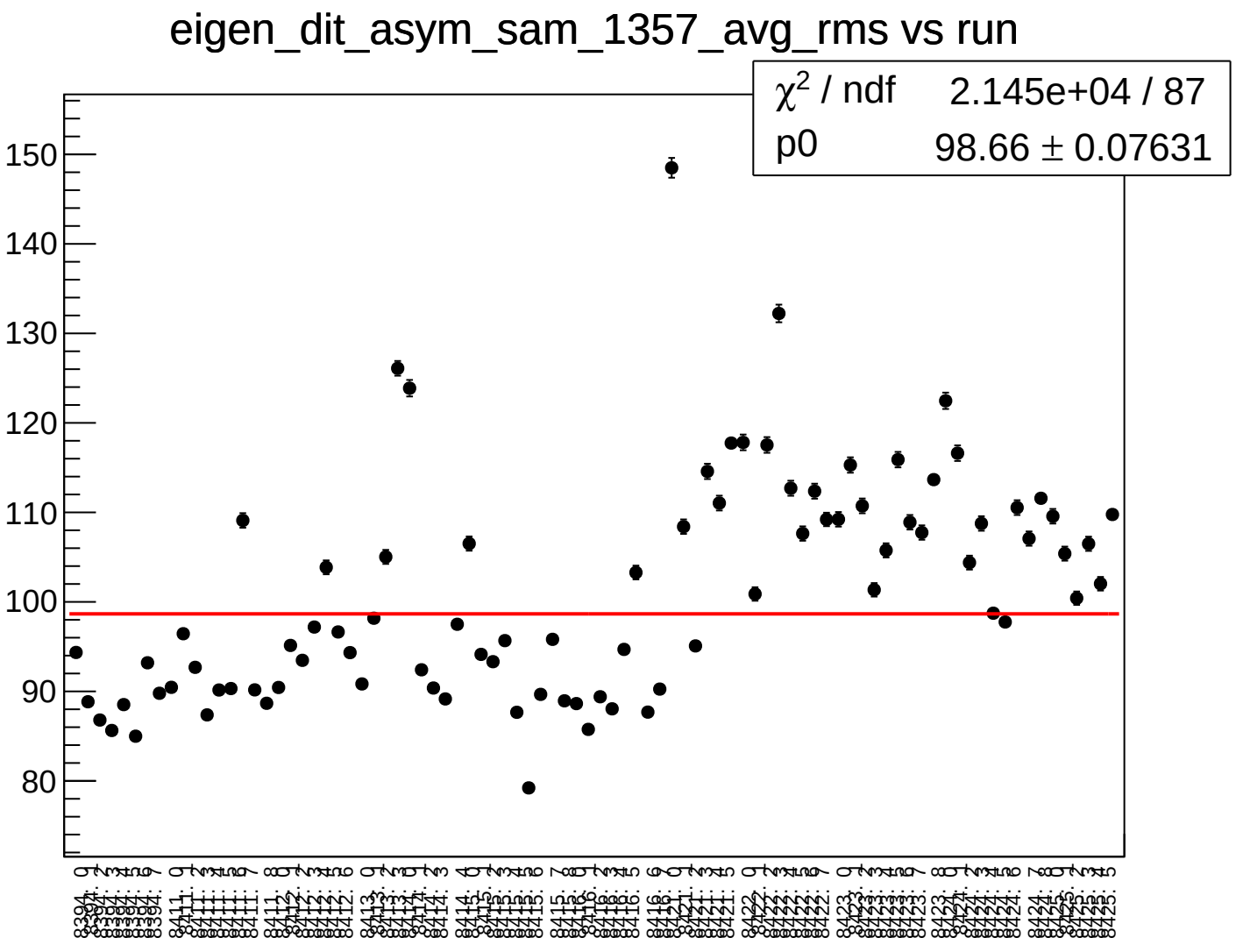

dit_asym_sam_1357_avg_rms vs run
χ^2 / ndf 2.145e+04 / 87
p0 98.66 ± 0.07631
150
140
130
120
110
100
90
80

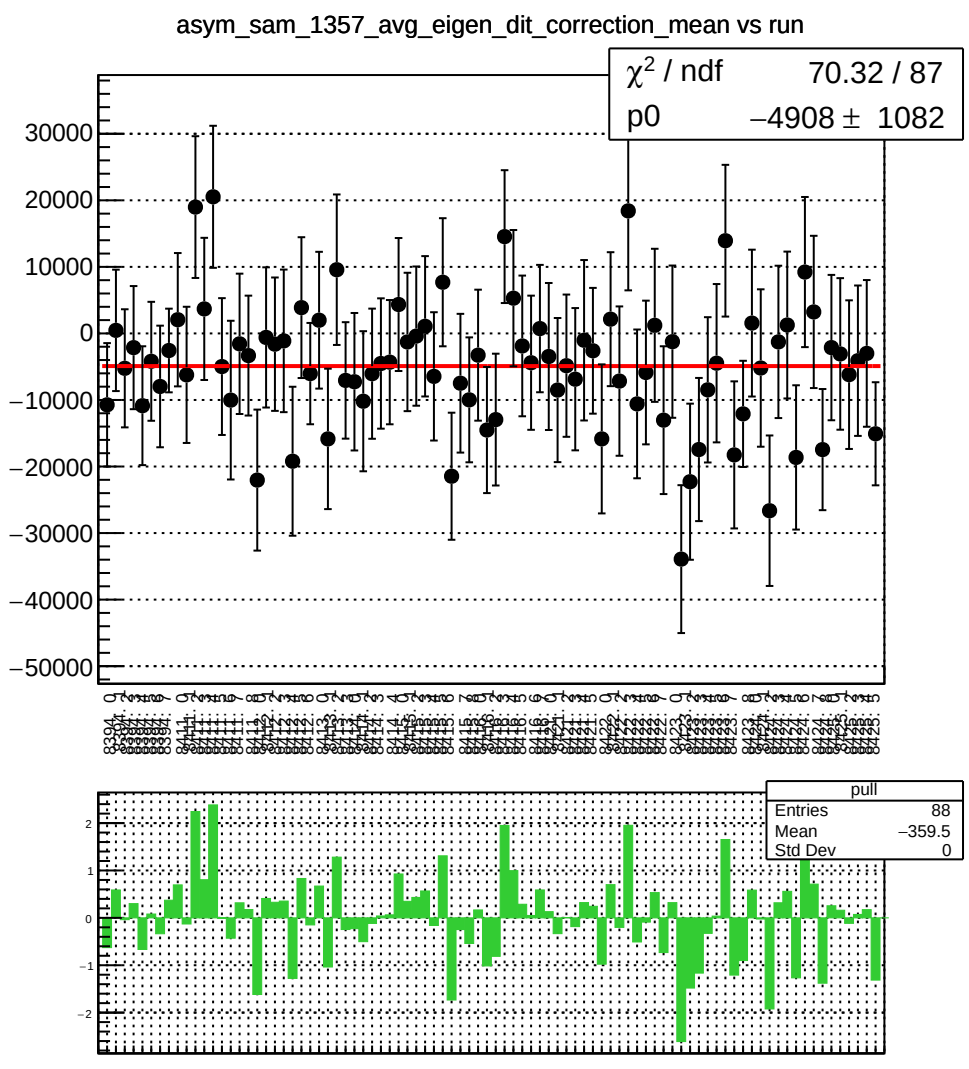

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 70.32 / 87
p0 −4908 ± 1082
pull
Entries 88
Mean −359.5
Std Dev 0

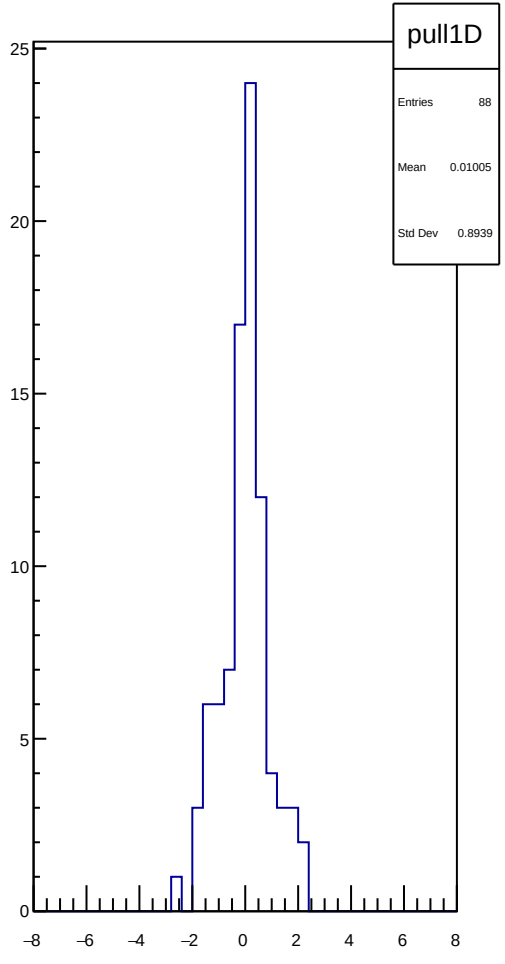

pull1D
Entries 88
Mean 0.01005
Std Dev 0.8939

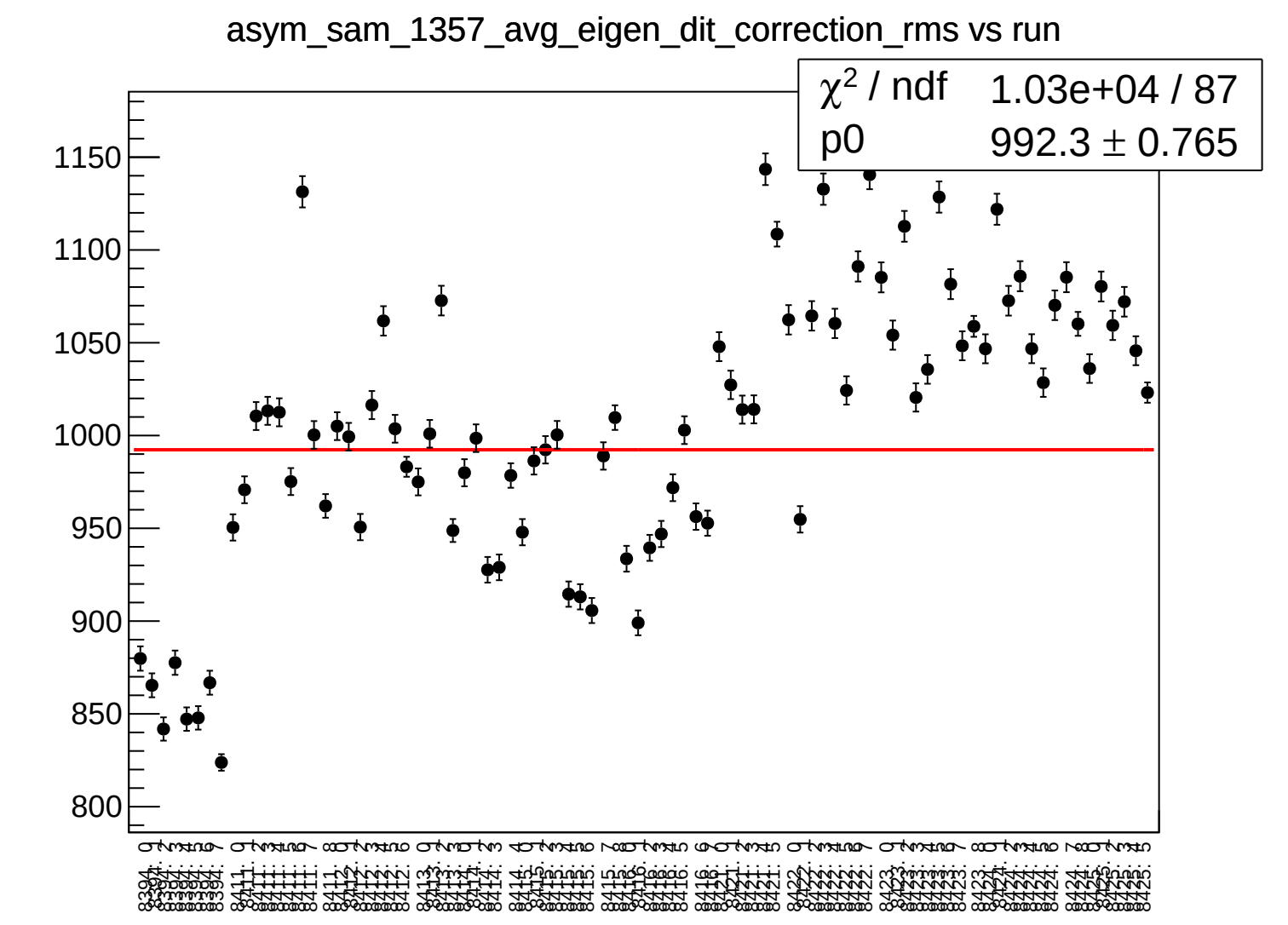

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 1.03e+04 / 87
p0 992.3 ± 0.765
1150
1100
1050
1000
950
900
850
800

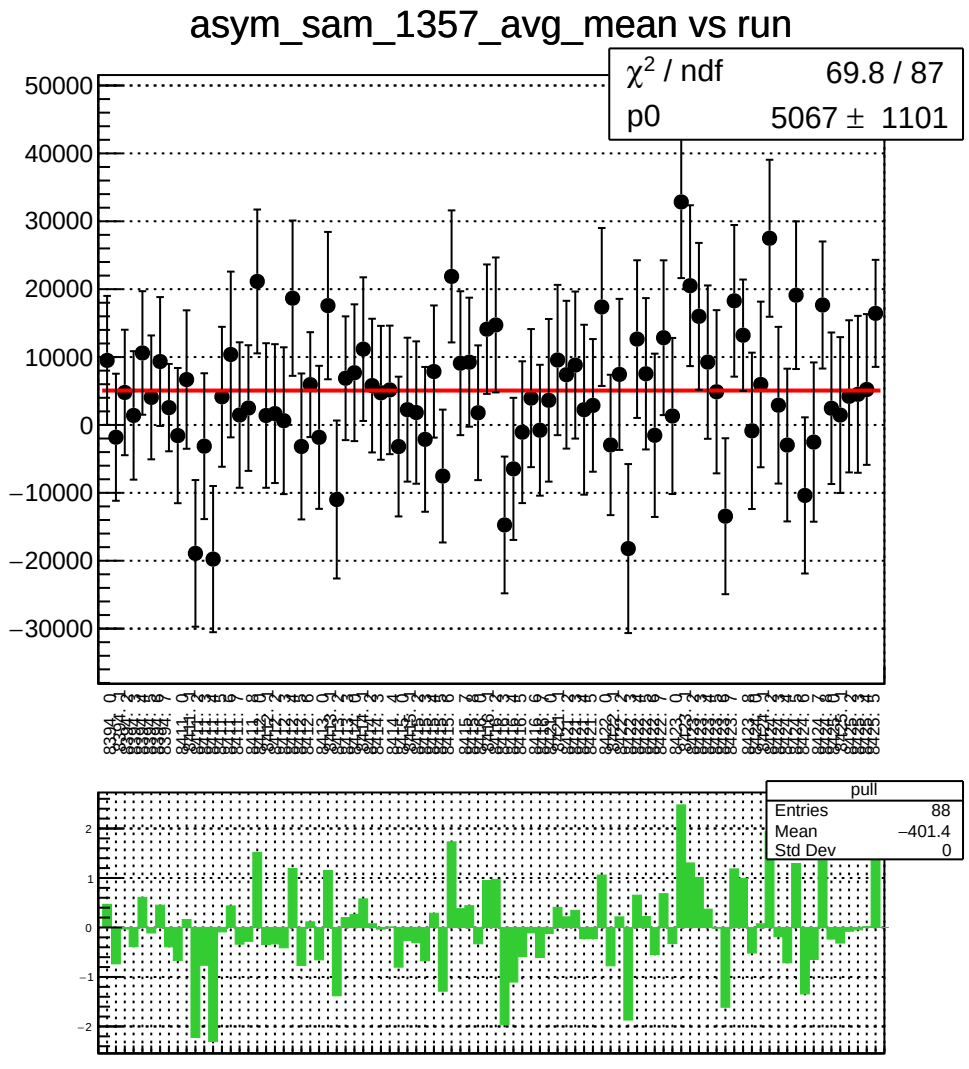

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 90.07 / 87
p0 134.4 ± 107.9
pull
Entries 88
Mean 281.2
Std Dev 0
pull1D
Entries 88
Mean 0.01254
Std Dev 1.012

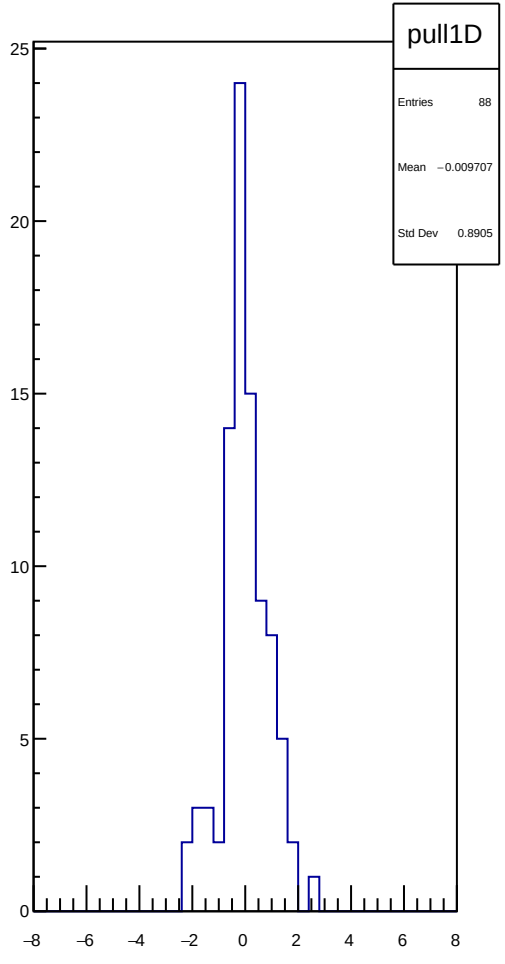

eigen_dit_asym_sam_1357_avg_rms vs run
χ^2 / ndf 2.145e+04 / 87
p0 98.66 ± 0.07631
150
140
130
120
110
100
90
80

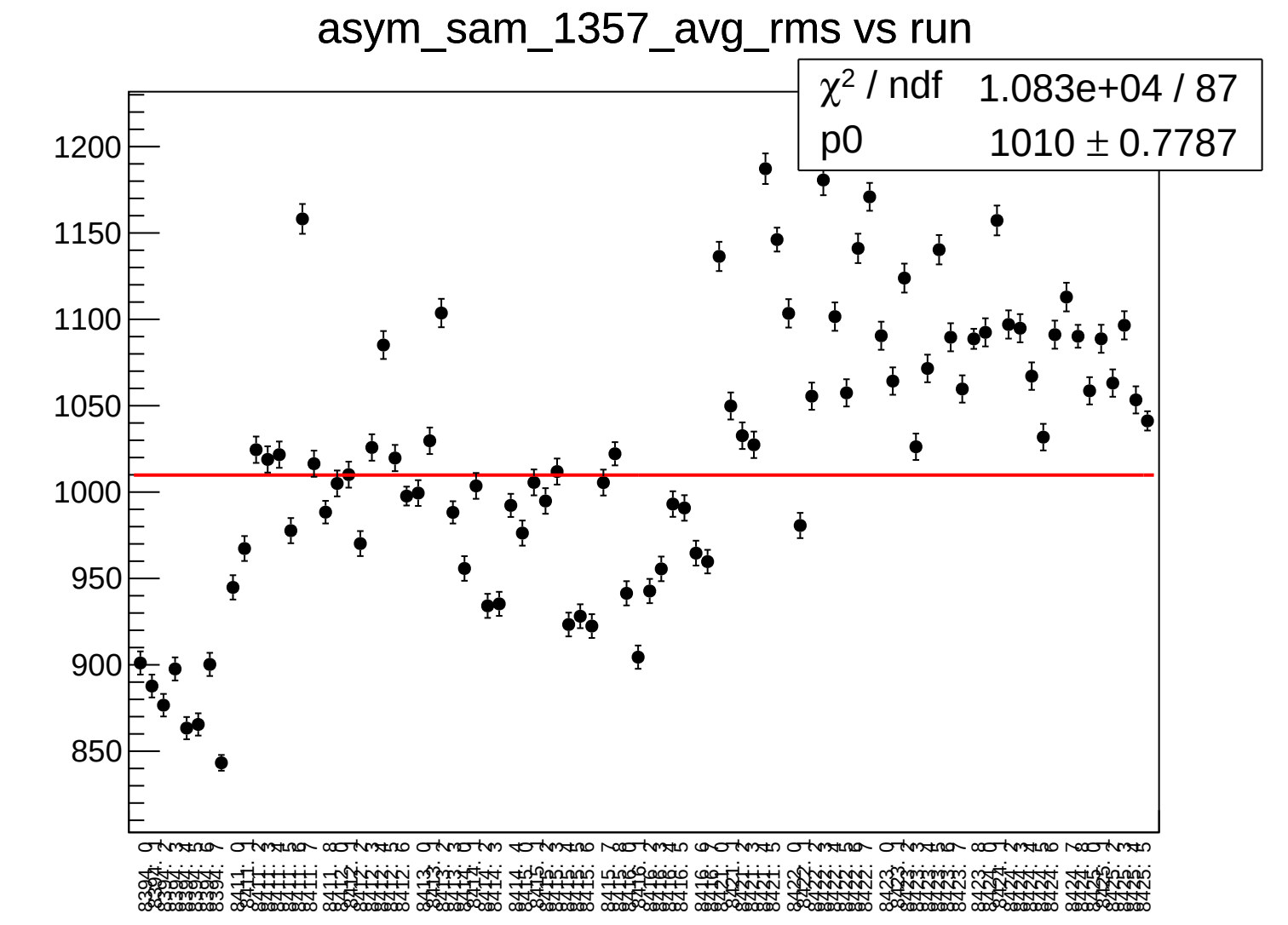

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 70.32 / 87
p0 −4908 ± 1082
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 88
Mean −359.5
Std Dev 0
2
1
0
−1
−2

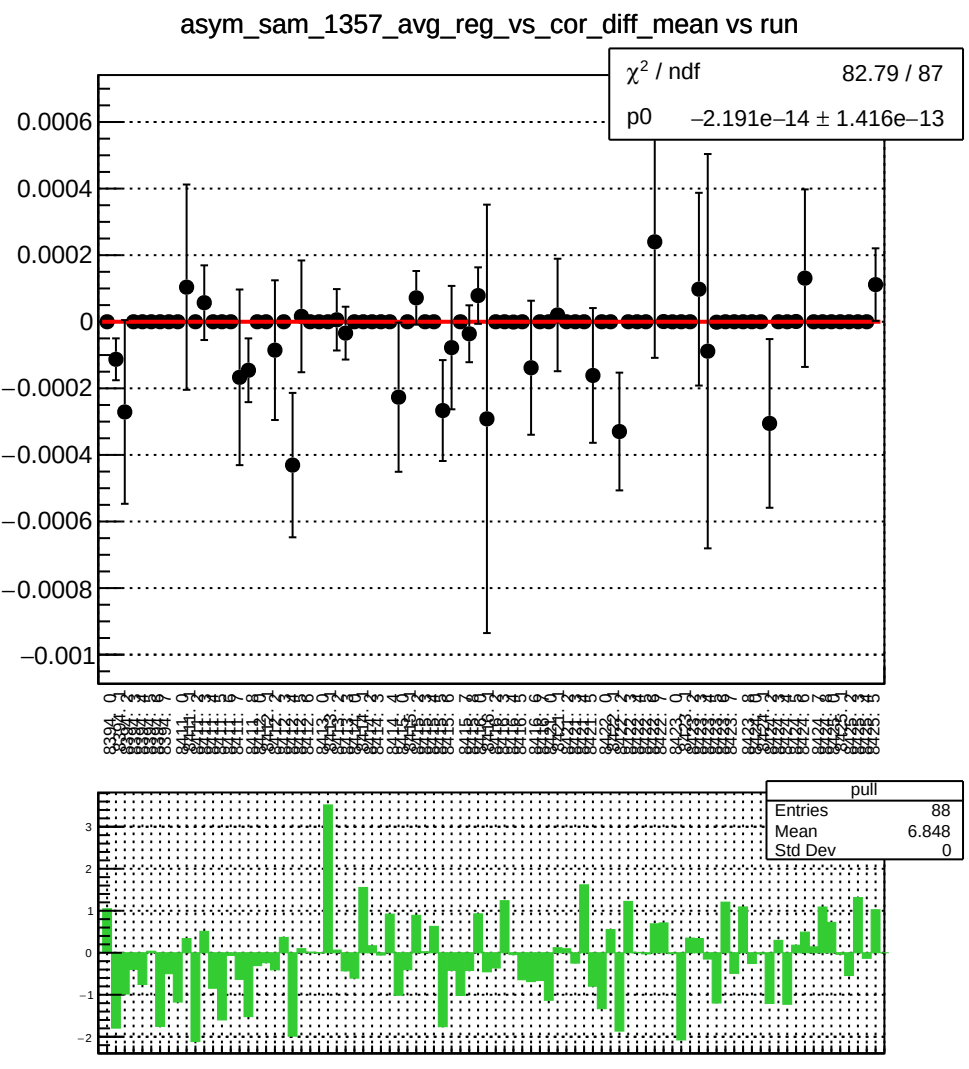

pull1D
Entries 88
Mean 0.01005
Std Dev 0.8939
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

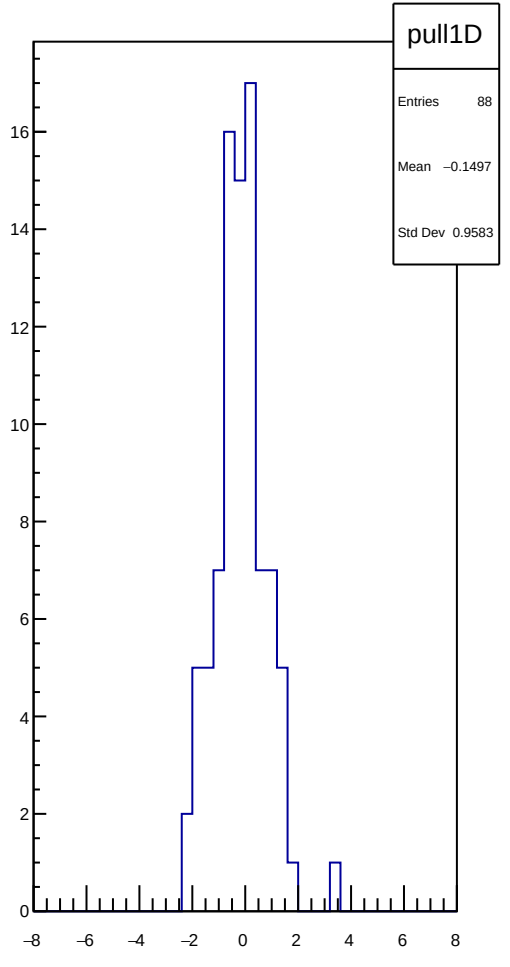

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.03e+04 / 87
p0 992.3 ± 0.765
1150
1100
1050
1000
950
900
850
800

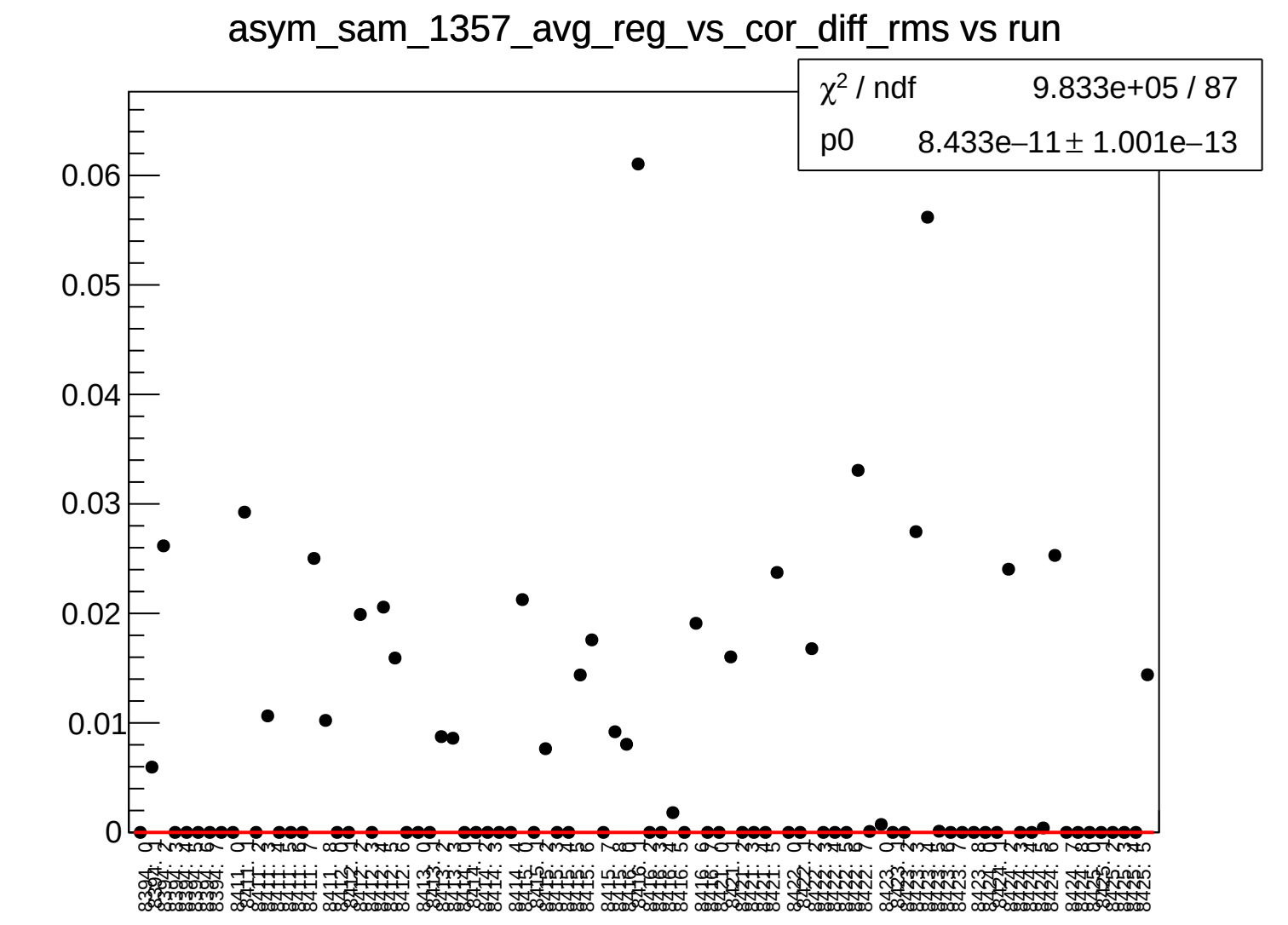

asym_sam_1357_avg_mean vs run
χ² / ndf 69.8 / 87
p0 5067 ± 1101
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −401.4
Std Dev 0
2
1
0
−1
−2

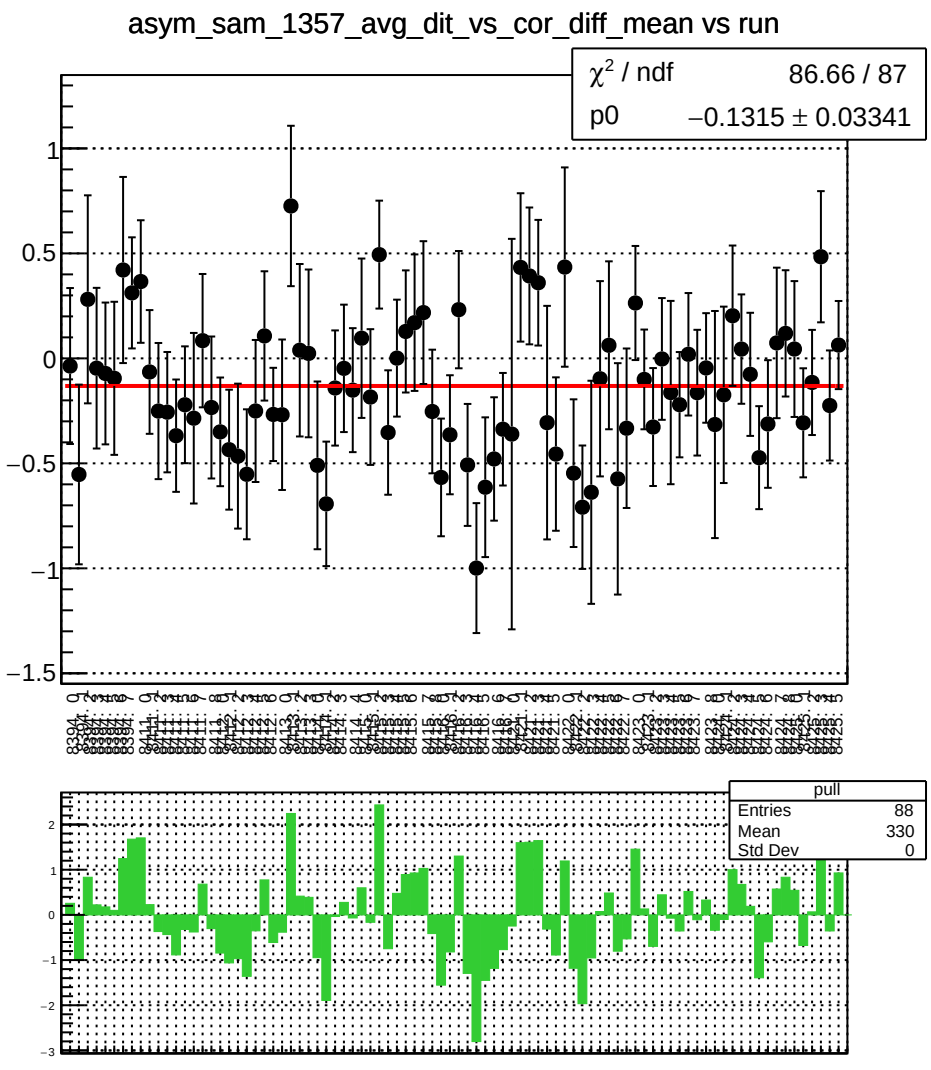

pull1D
Entries 88
Mean −0.009707
Std Dev 0.8905
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

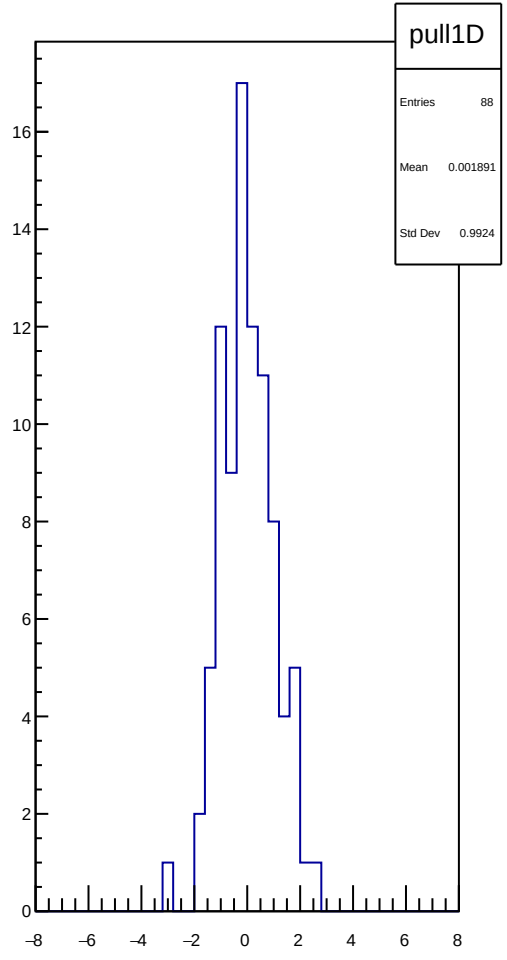

asym_sam_1357_avg_rms vs run
χ² / ndf 1.083e+04 / 87
p0 1010 ± 0.7787
1200
1150
1100
1050
1000
950
900
850

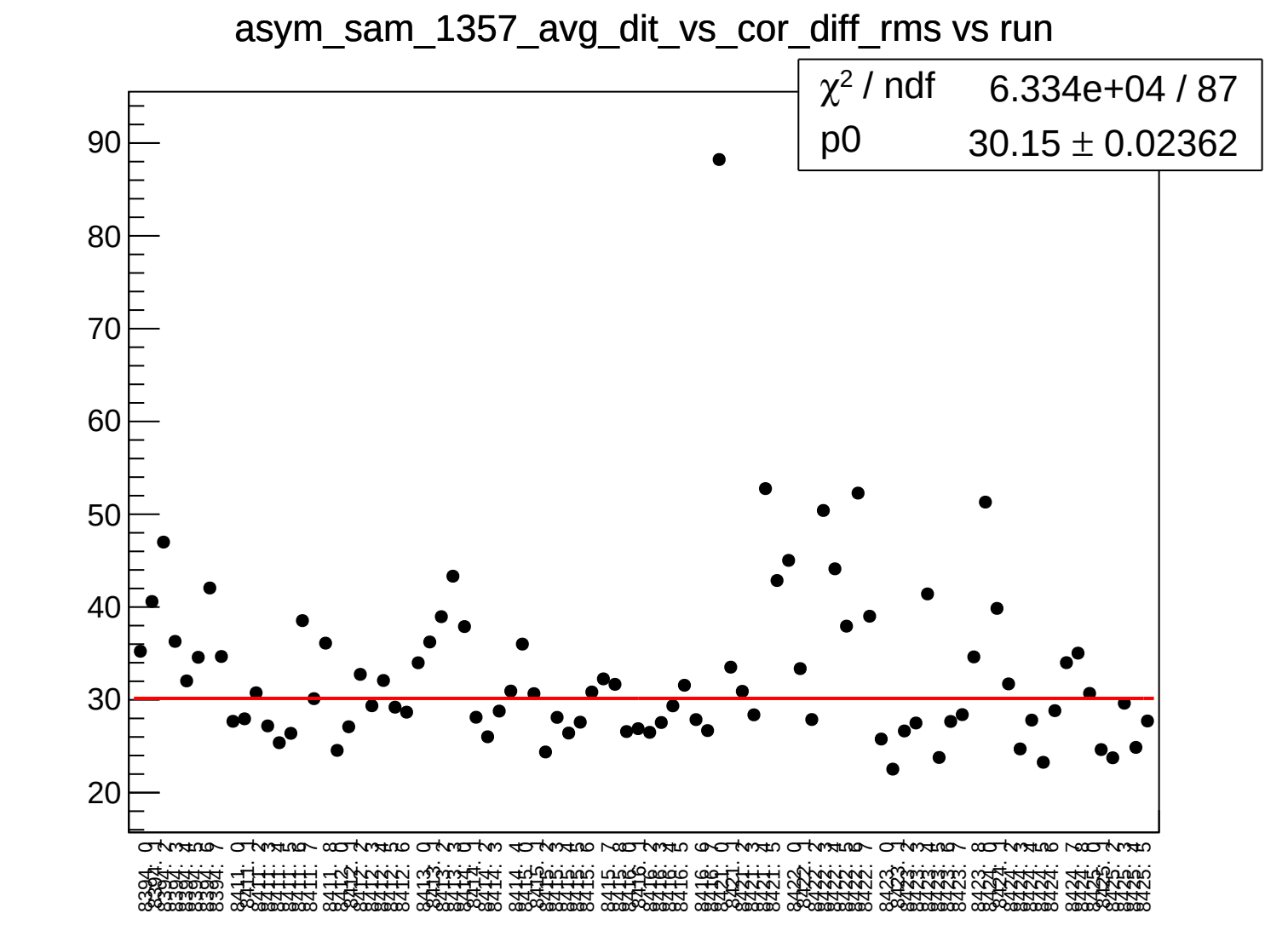

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.79 / 87
p0 −2.191e−14 ± 1.416e−13
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 88
Mean 6.848
Std Dev 0
3
2
1
0
−1
−2

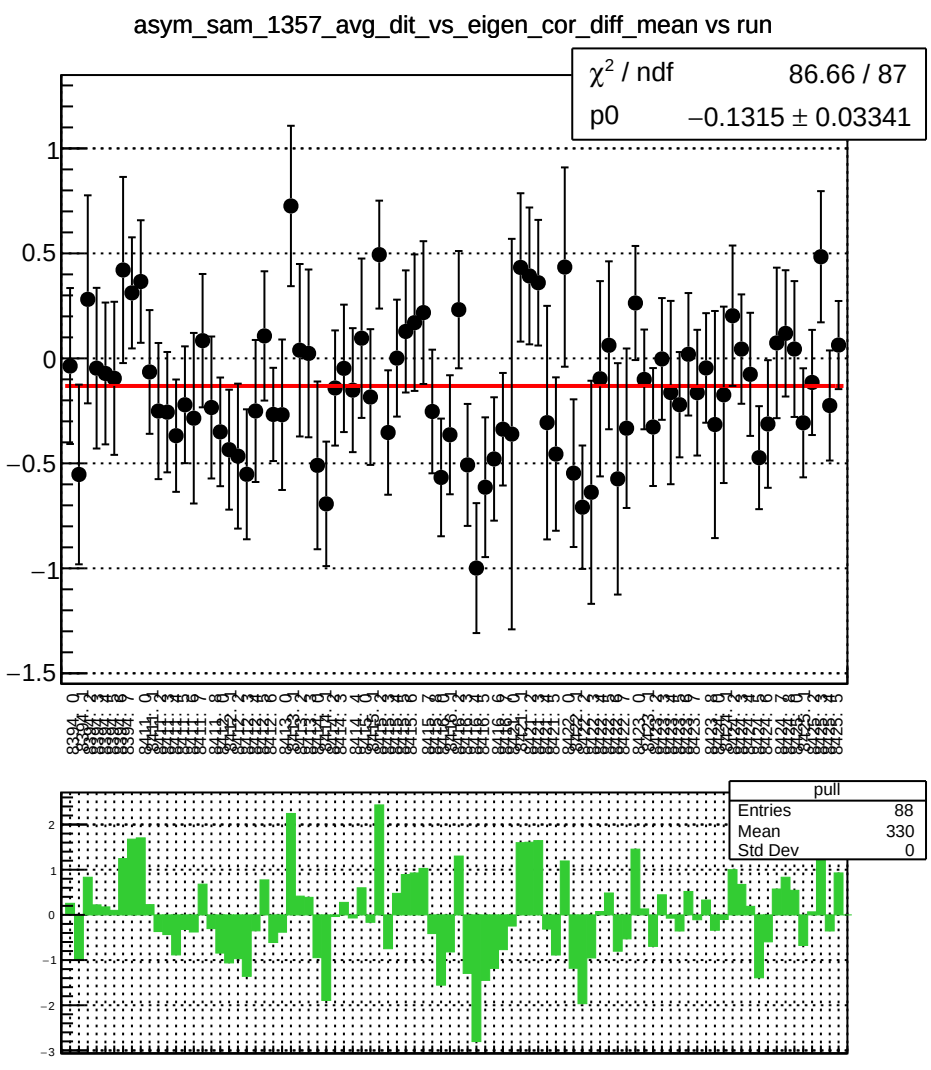

pull1D
Entries 88
Mean −0.1497
Std Dev 0.9583
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

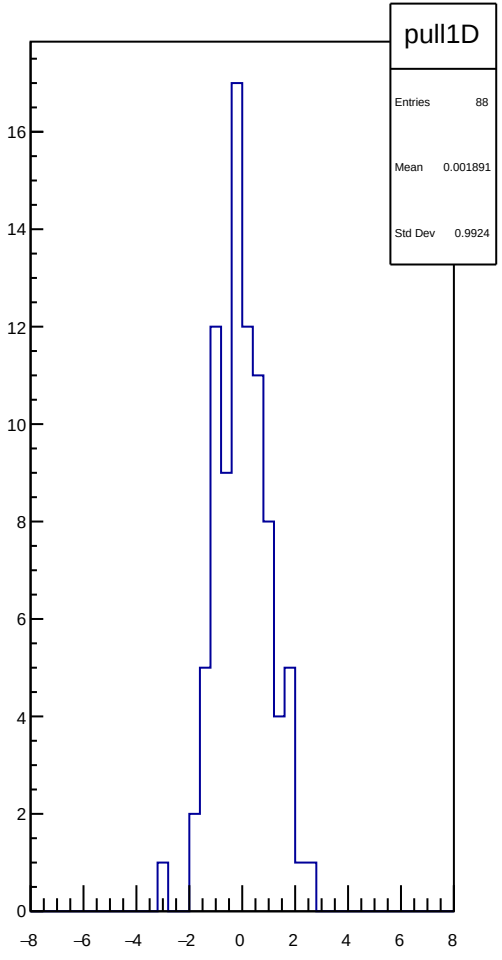

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.833e+05 / 87
p0 8.433e−11 ± 1.001e−13
0.06
0.05
0.04
0.03
0.02
0.01
0

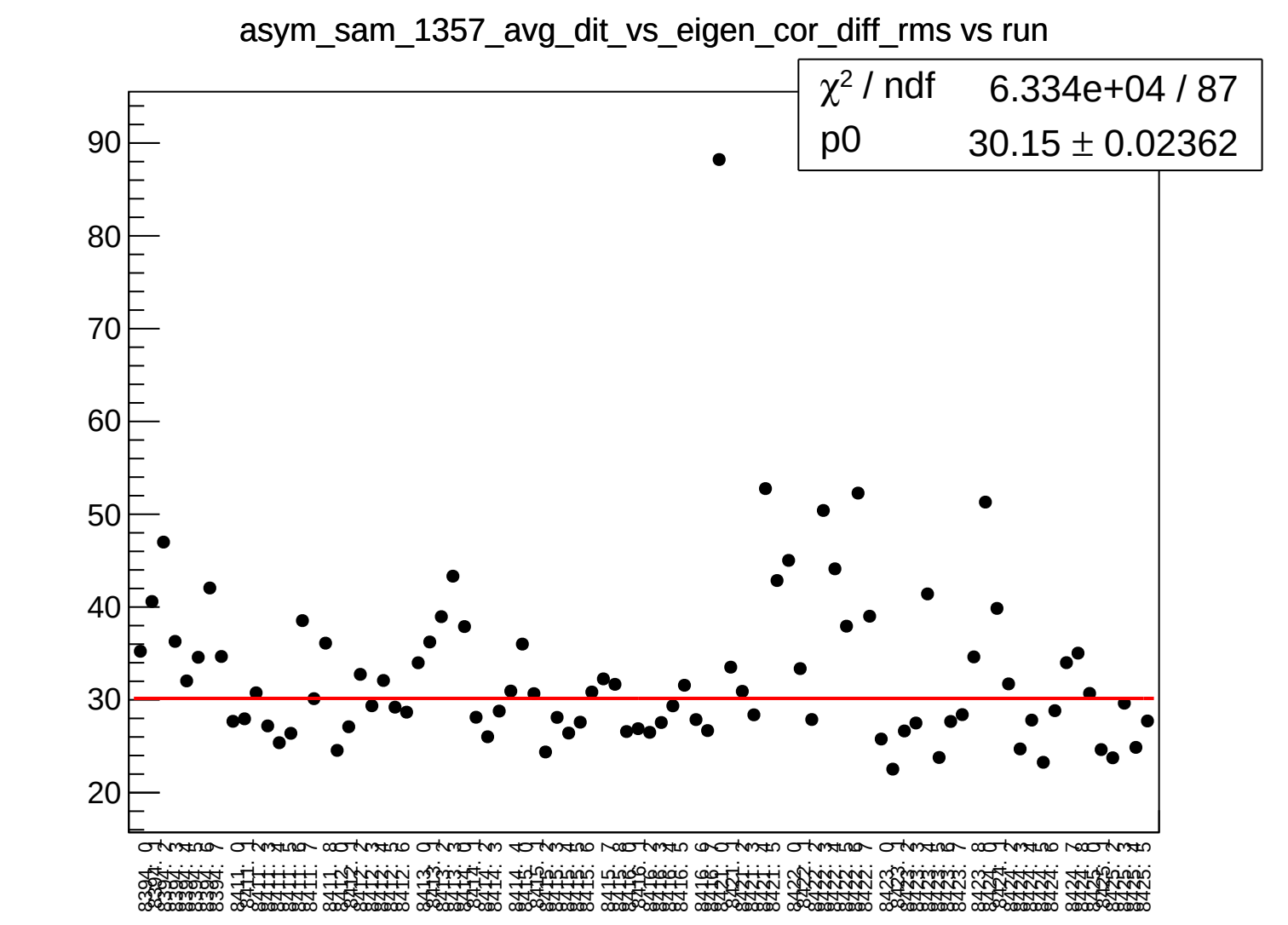

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.66 / 87
p0 −0.1315 ± 0.03341
pull
Entries 88
Mean 330
Std Dev 0

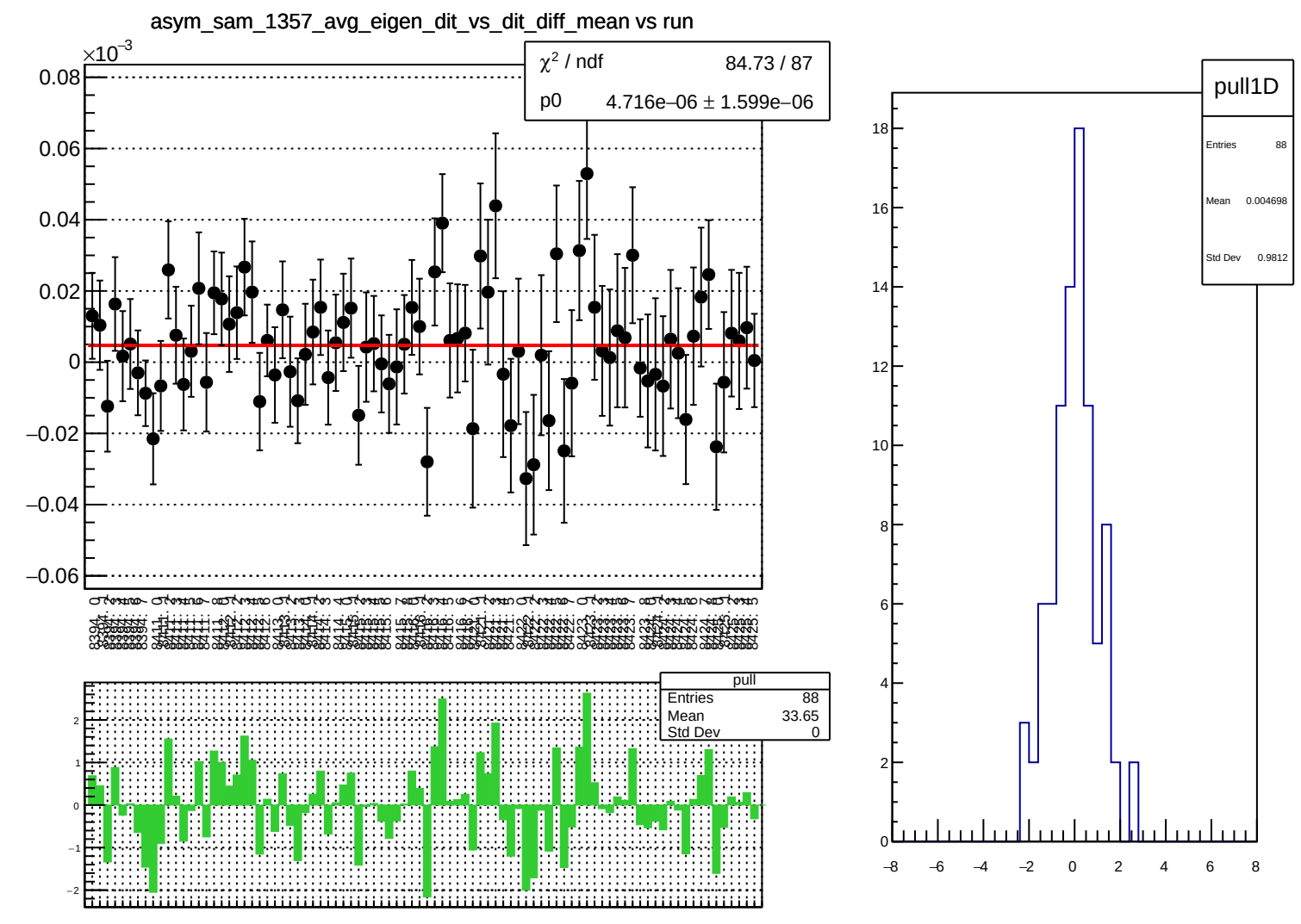

pull1D
Entries 88
Mean 0.001891
Std Dev 0.9924

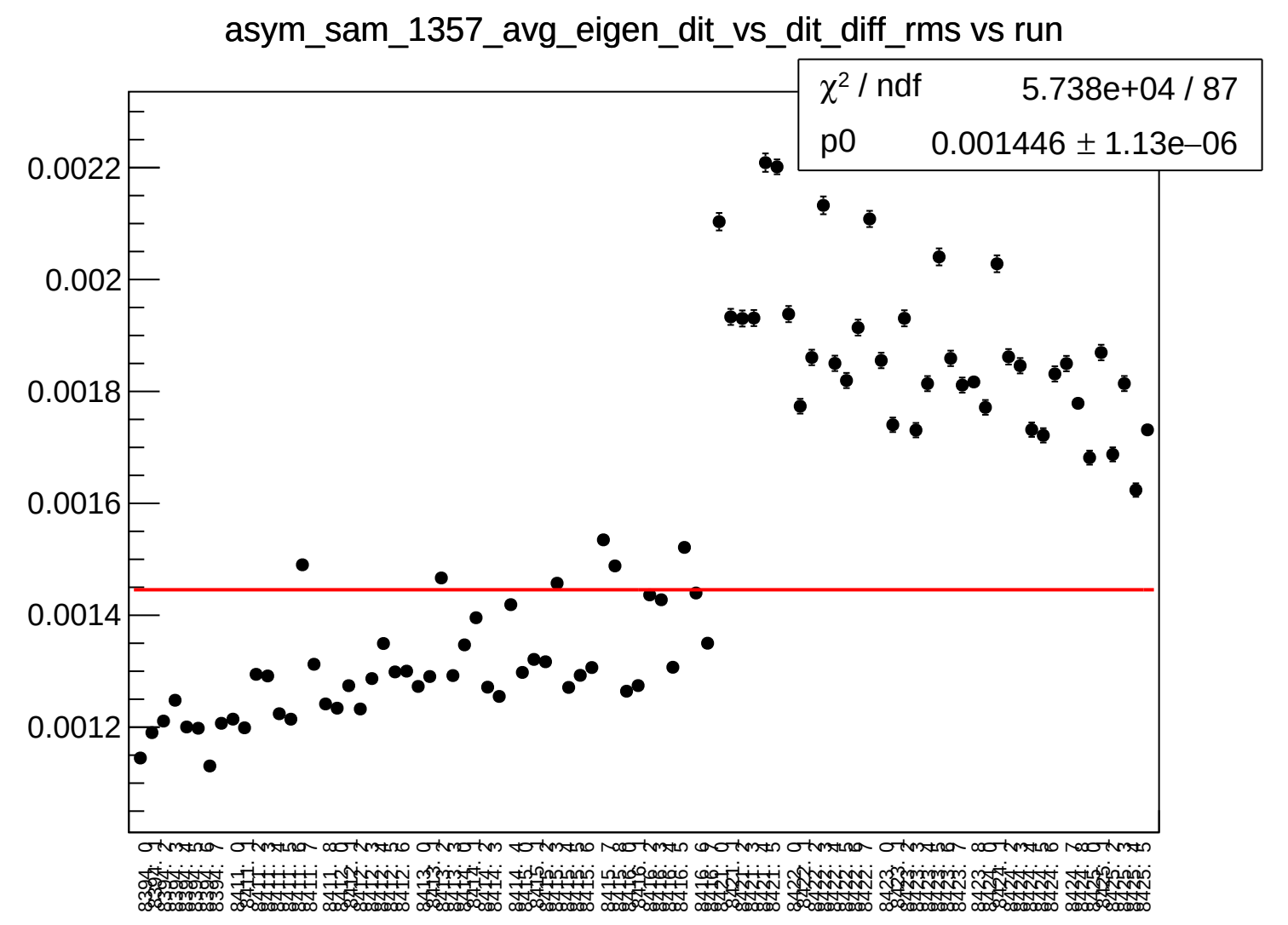

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.334e+04 / 87
p0 30.15 ± 0.02362
90
80
70
60
50
40
30
20

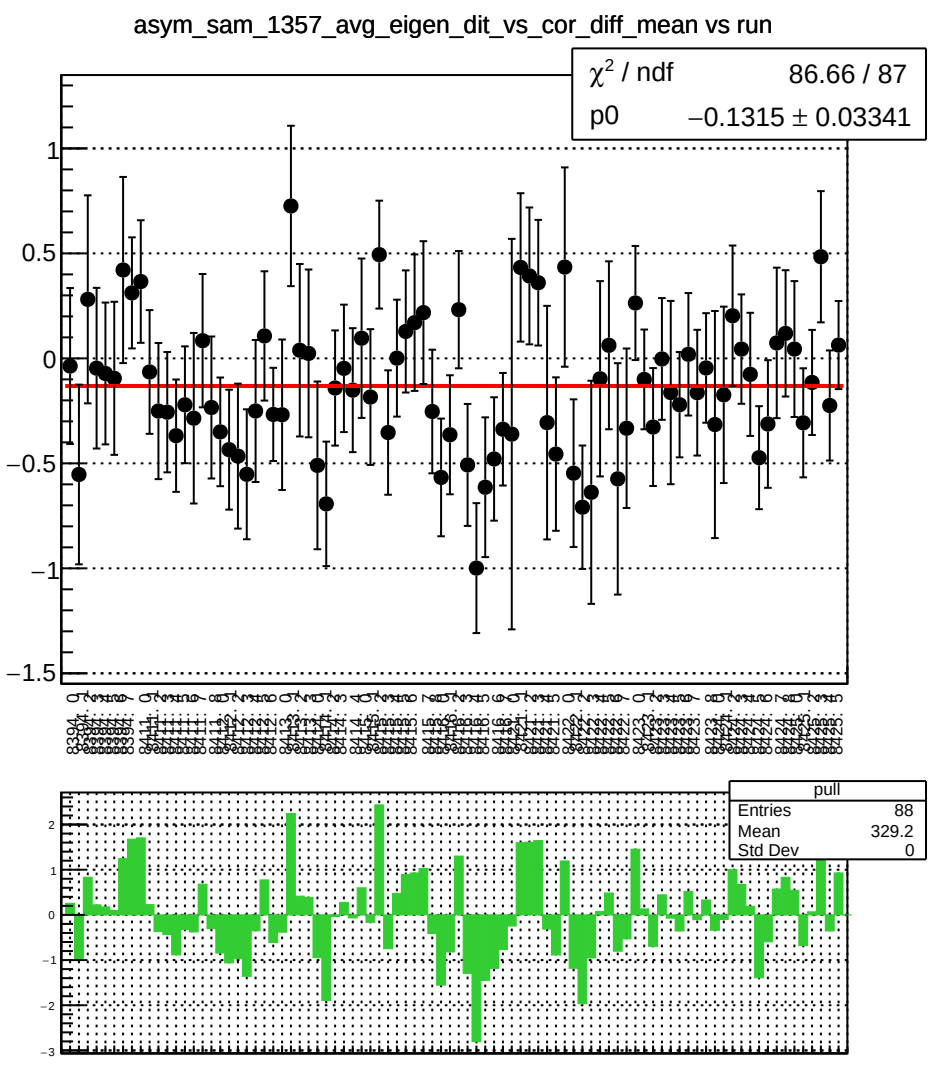

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.66 / 87
p0 −0.1315 ± 0.03341
pull
Entries 88
Mean 330
Std Dev 0

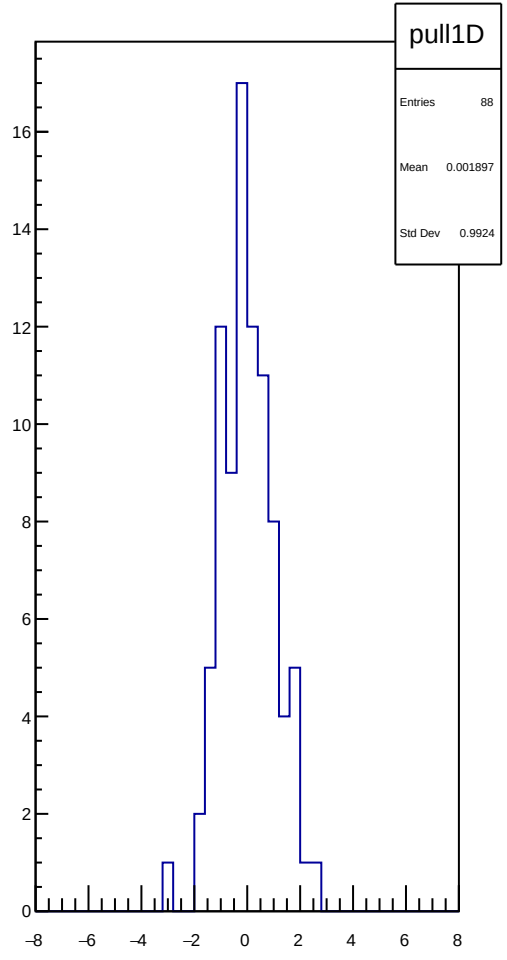

pull1D
Entries 88
Mean 0.001891
Std Dev 0.9924

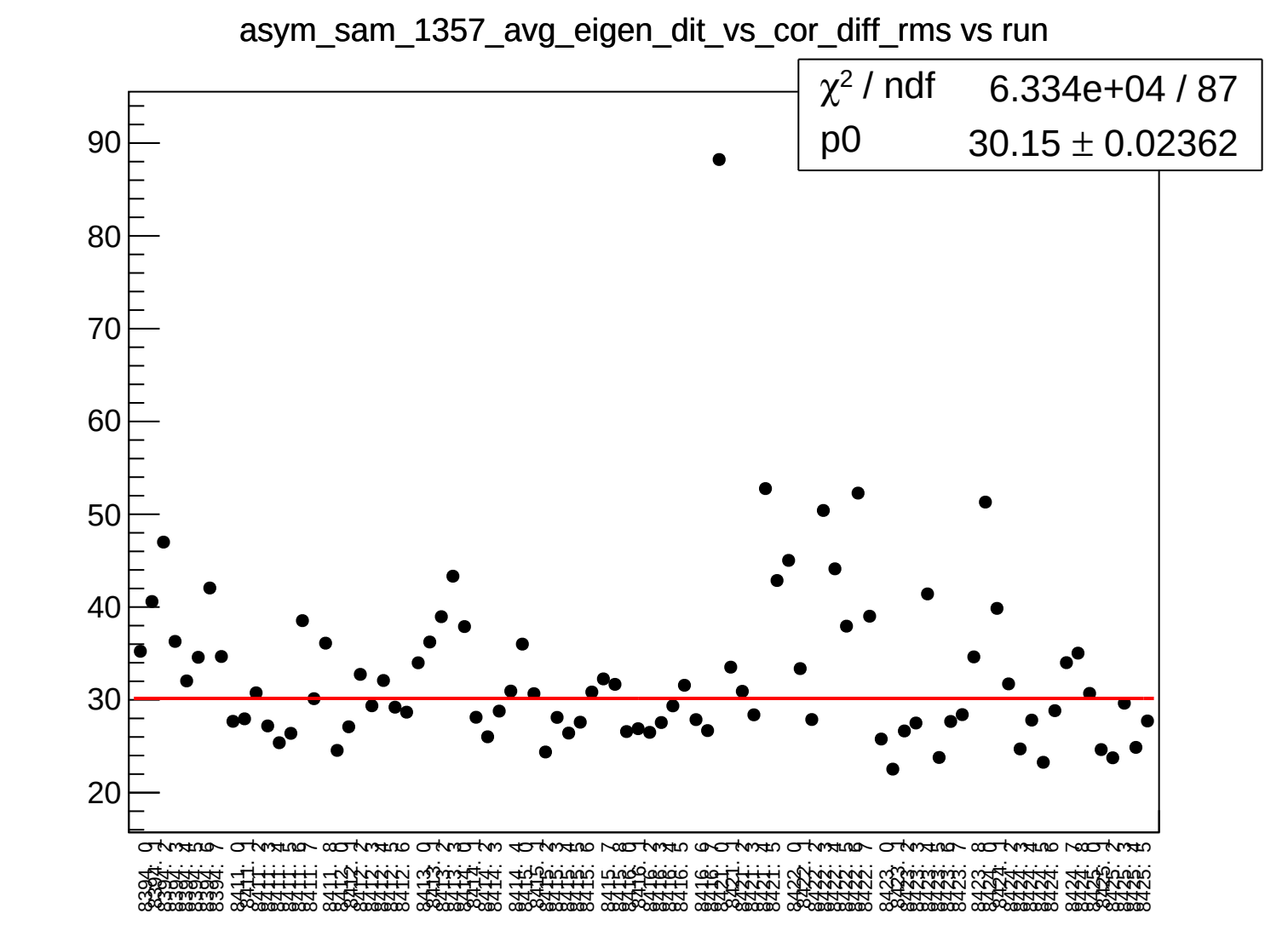

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.334e+04 / 87
p0 30.15 ± 0.02362
90
80
70
60
50
40
30
20

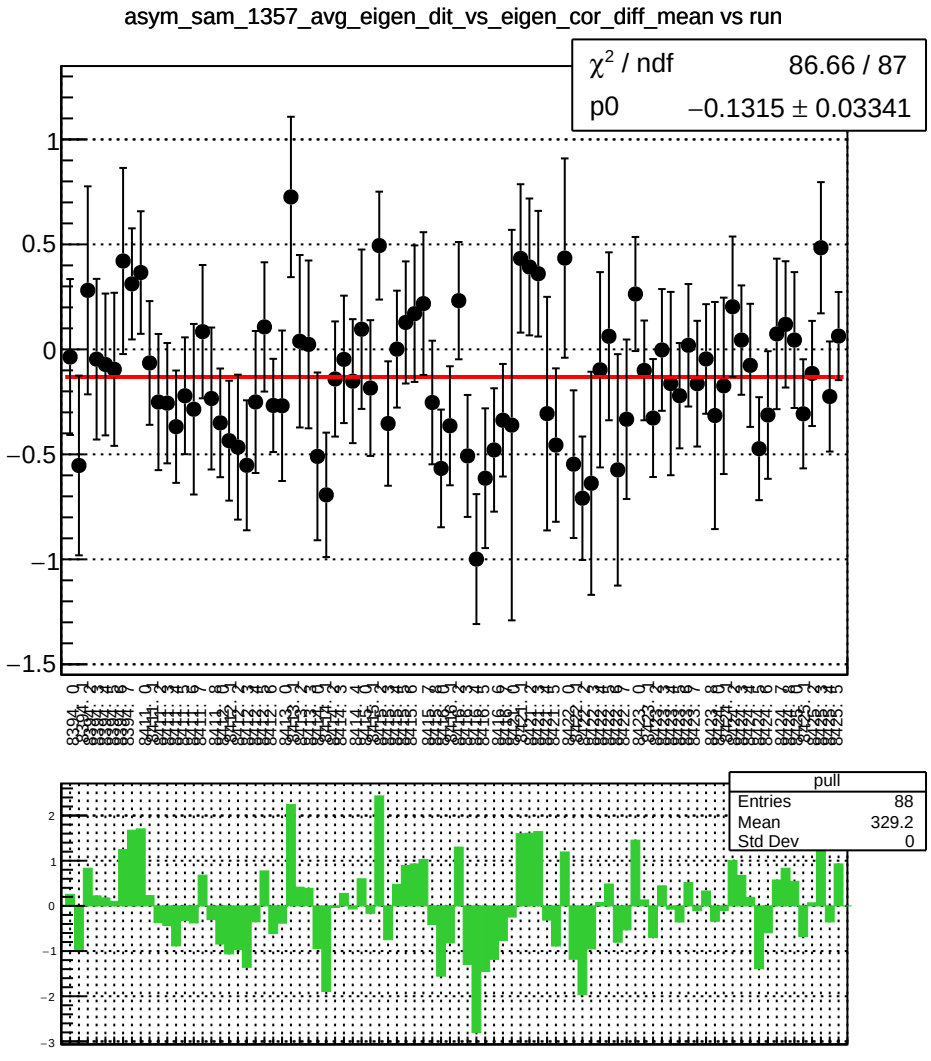

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.73 / 87
p0 4.716e−06 ± 1.599e−06
pull
Entries 88
Mean 33.65
Std Dev 0
pull1D
Entries 88
Mean 0.004698
Std Dev 0.9812

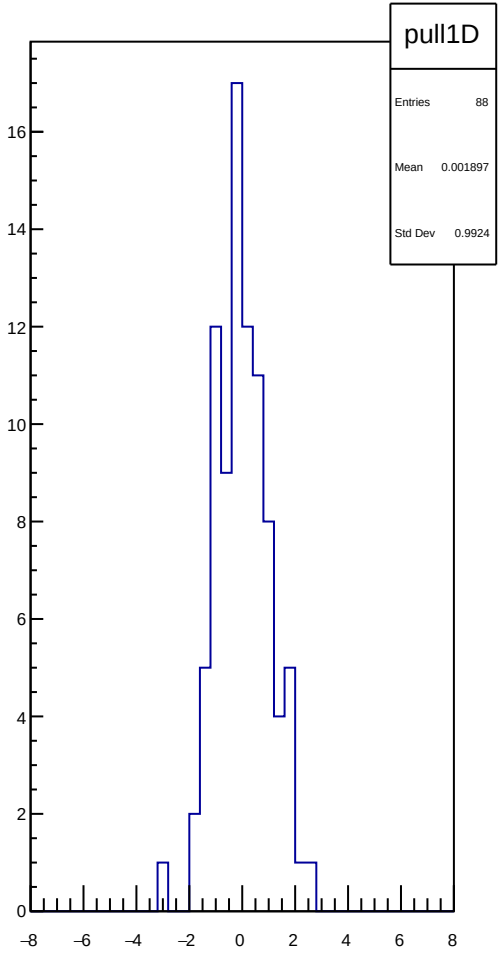

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.738e+04 / 87
p0 0.001446 ± 1.13e−06
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

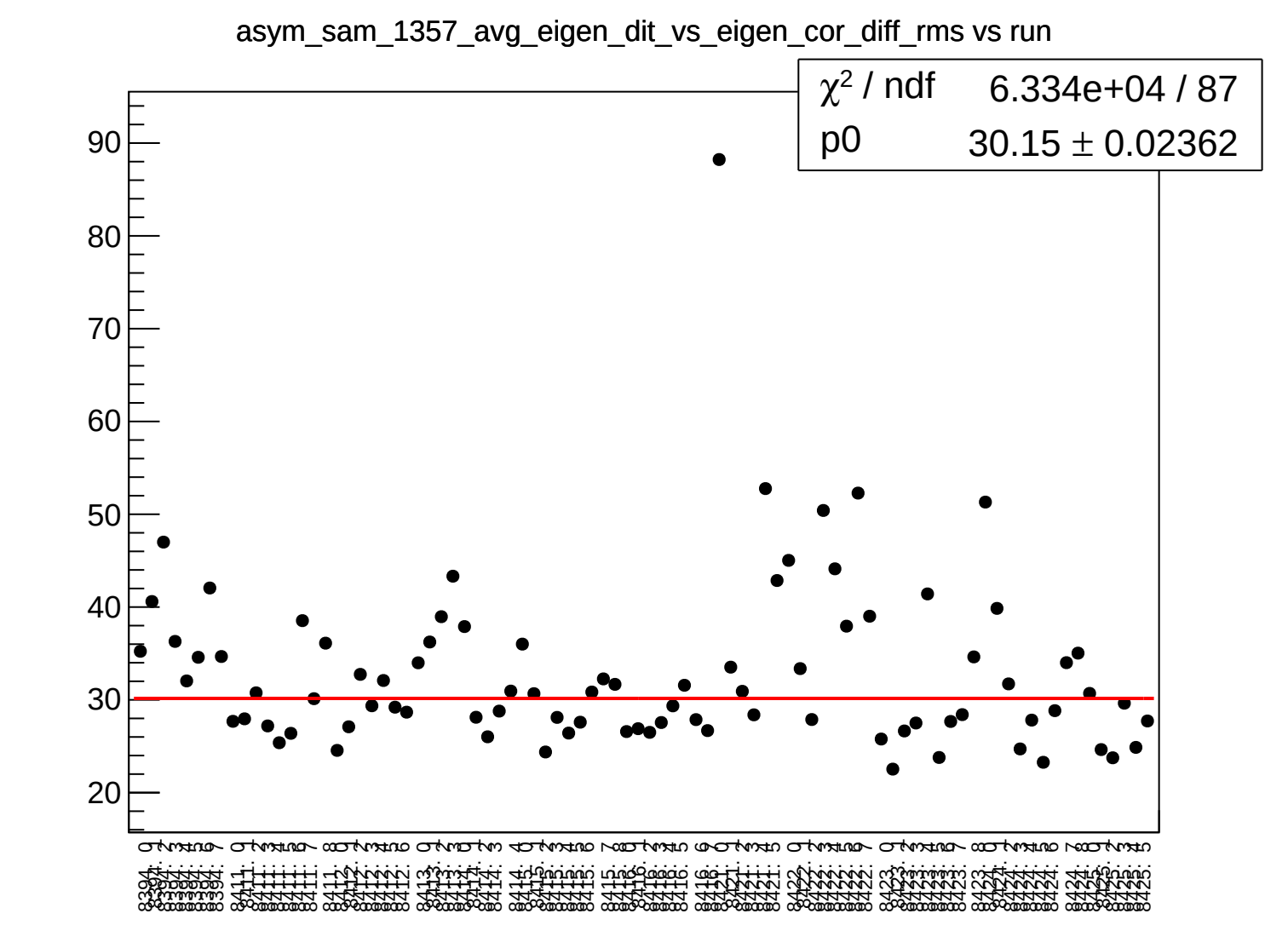

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.66 / 87
p0 −0.1315 ± 0.03341
pull
Entries 88
Mean 329.2
Std Dev 0

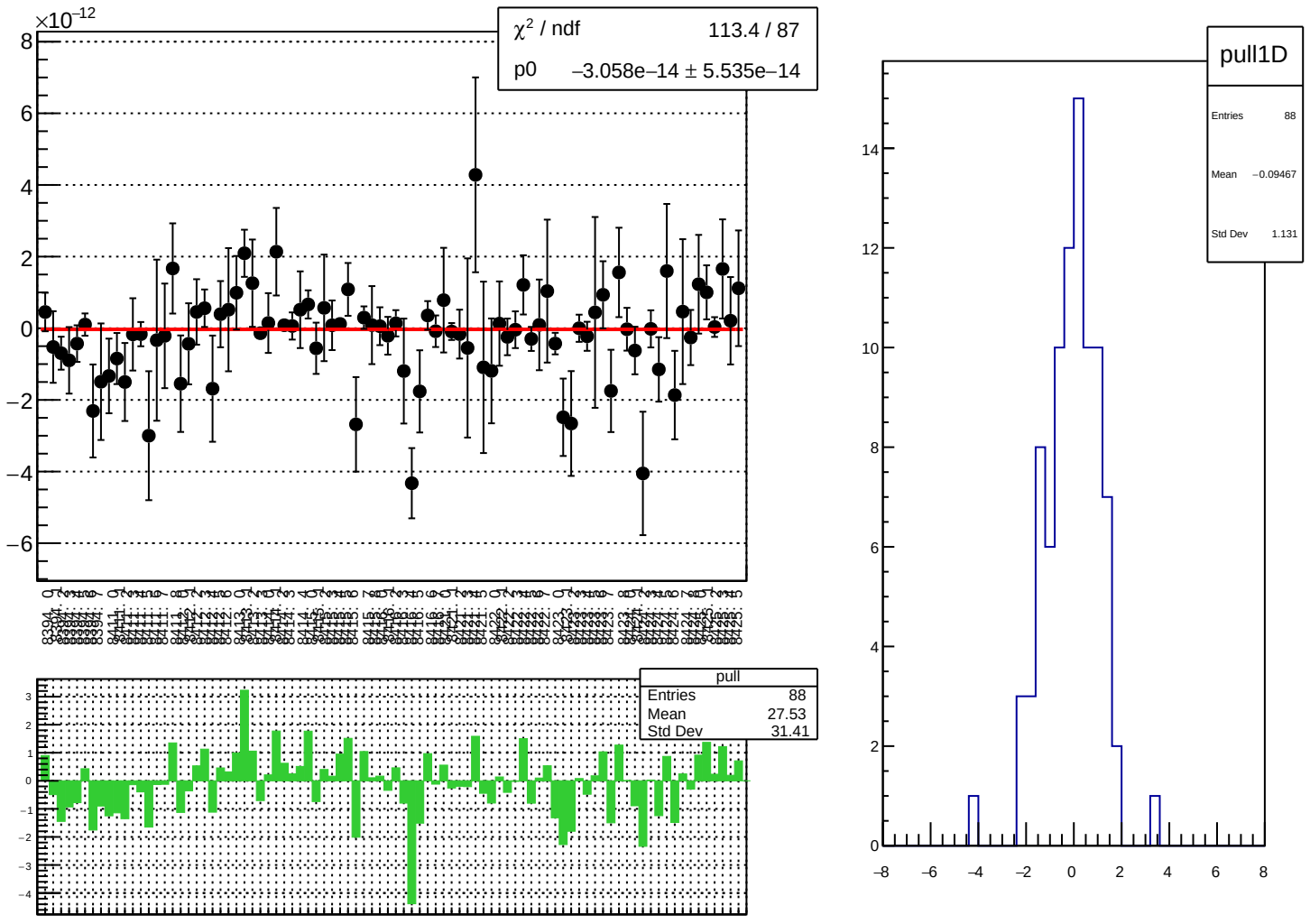

pull1D
Entries 88
Mean 0.001897
Std Dev 0.9924

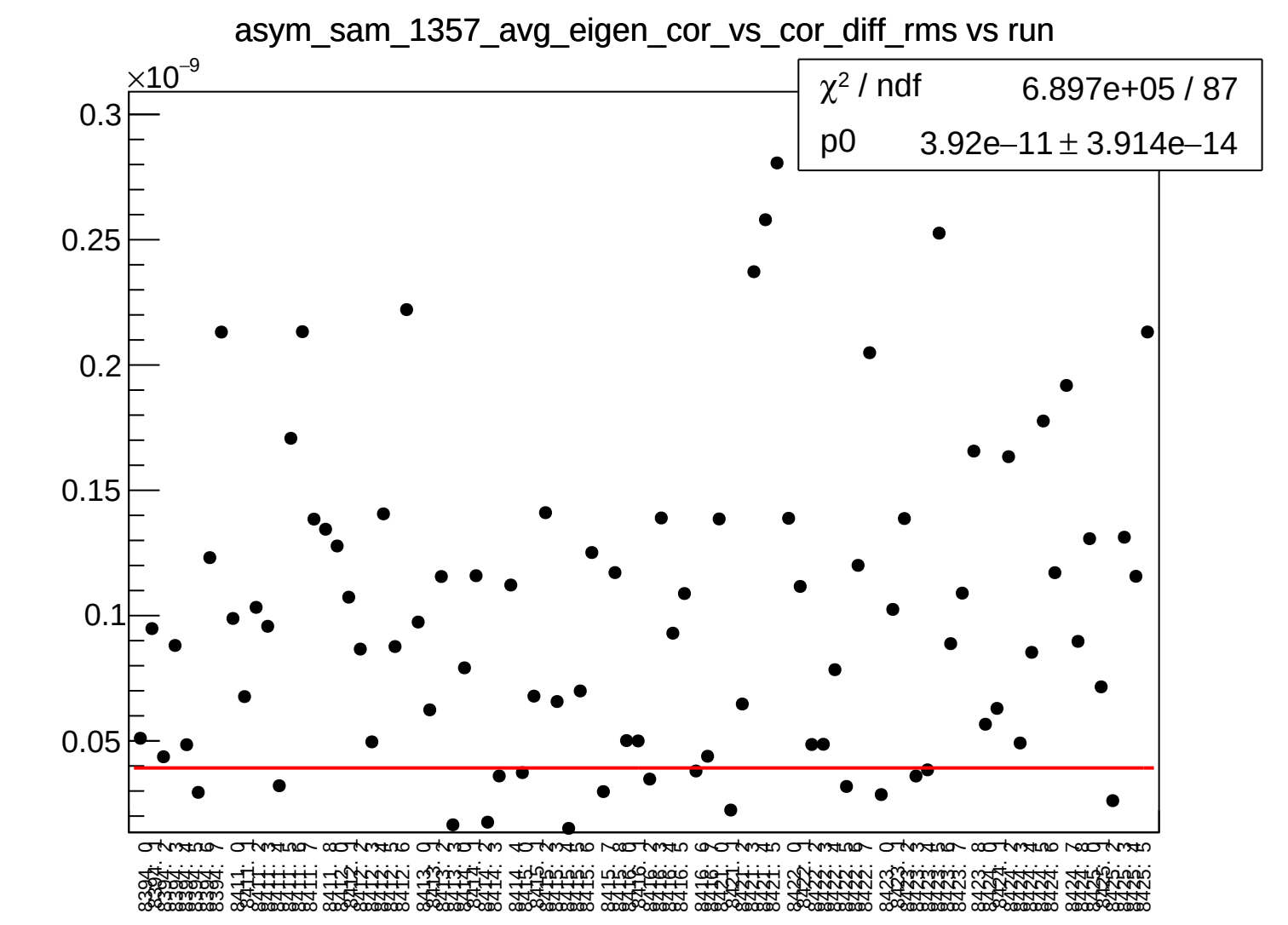

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.334e+04 / 87
p0 30.15 ± 0.02362
90
80
70
60
50
40
30
20

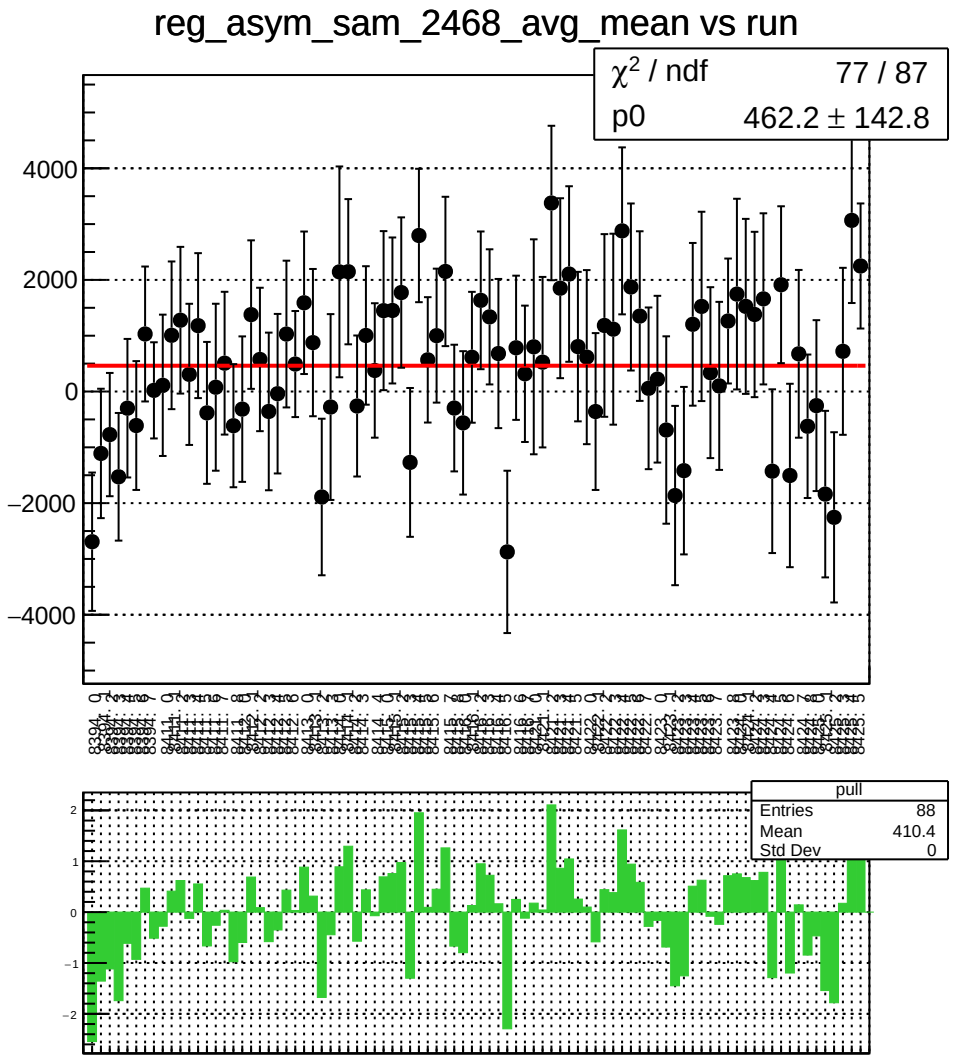

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.66 / 87
p0 −0.1315 ± 0.03341
pull
Entries 88
Mean 329.2
Std Dev 0

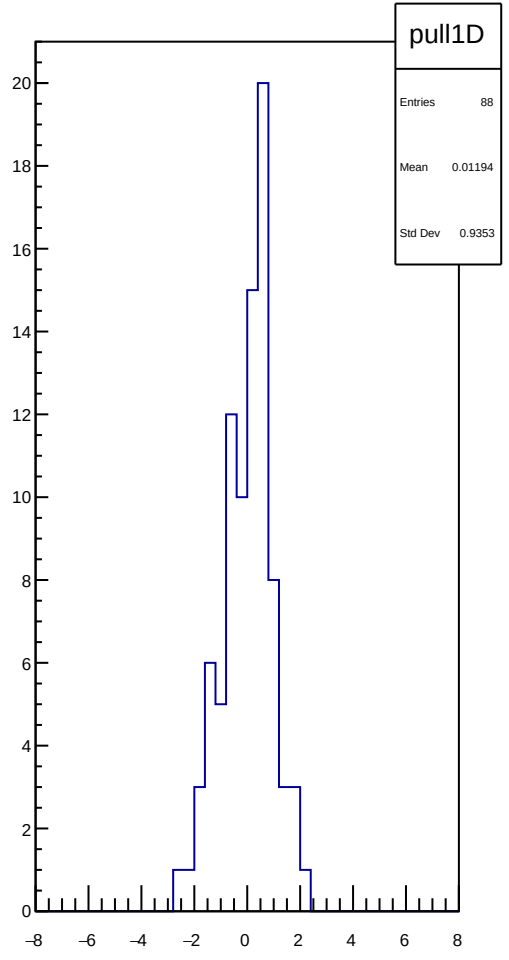

pull1D
Entries 88
Mean 0.001897
Std Dev 0.9924

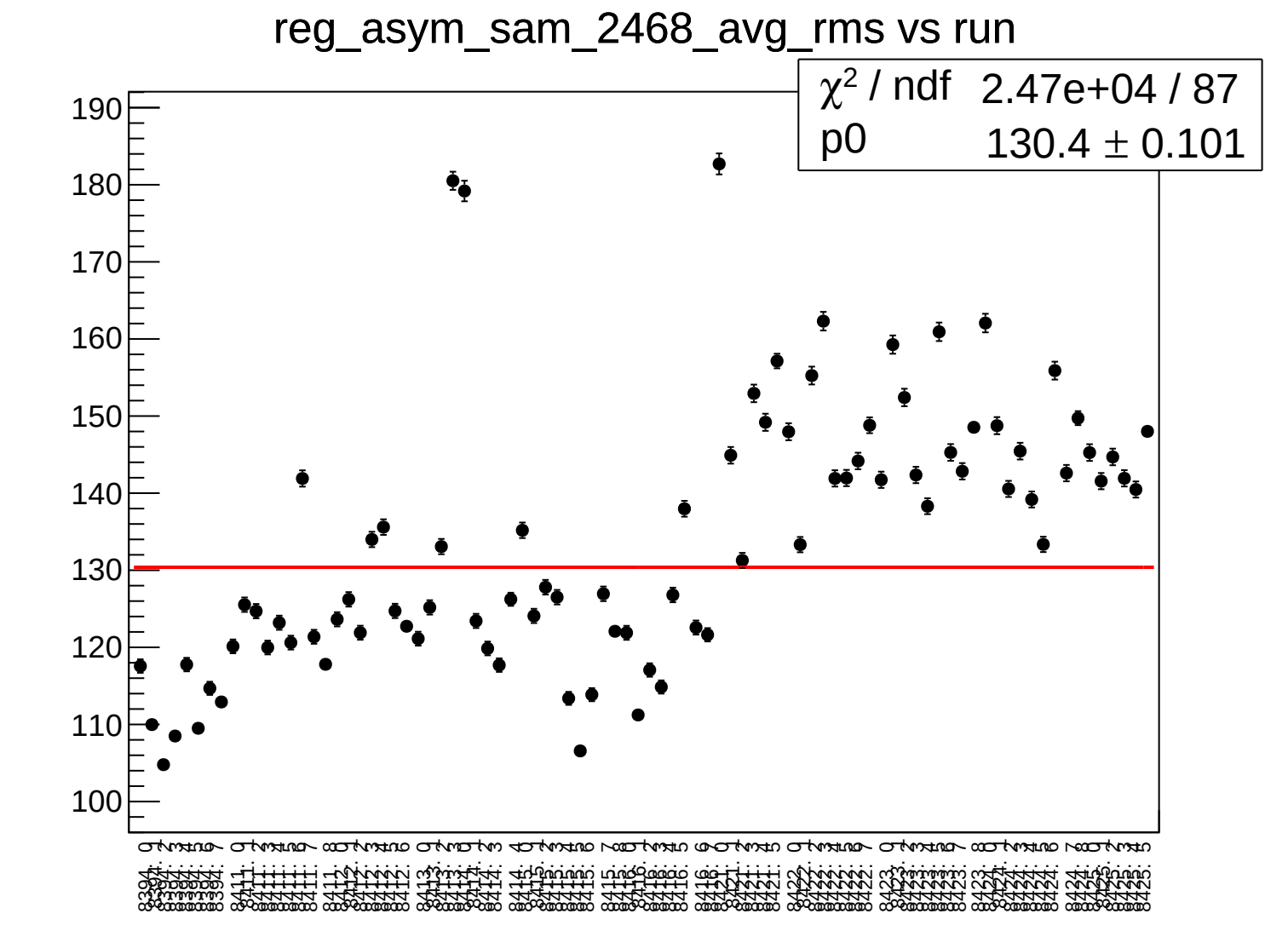

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.334e+04 / 87
p0 30.15 ± 0.02362
90
80
70
60
50
40
30
20

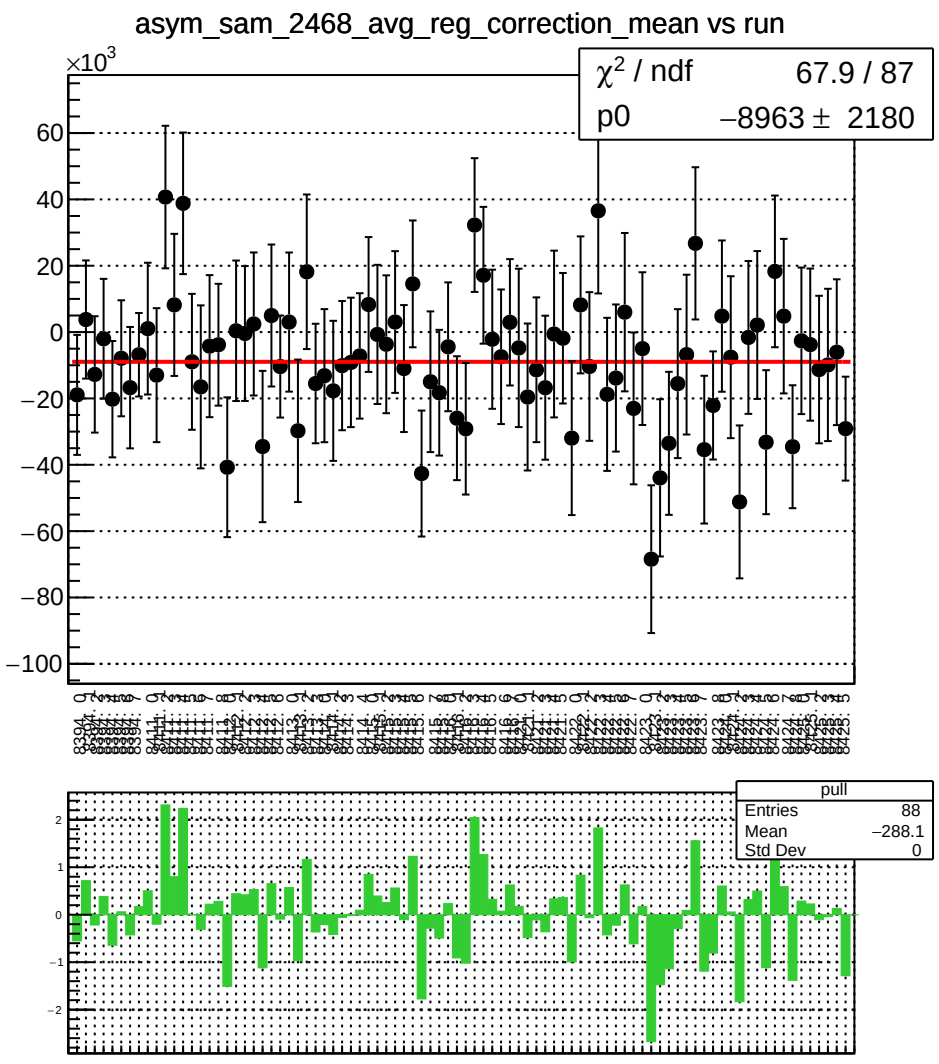

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 113.4 / 87
p0 −3.058e−14 ± 5.535e−14
pull
Entries 88
Mean 27.53
Std Dev 31.41
pull1D
Entries 88
Mean −0.09467
Std Dev 1.131

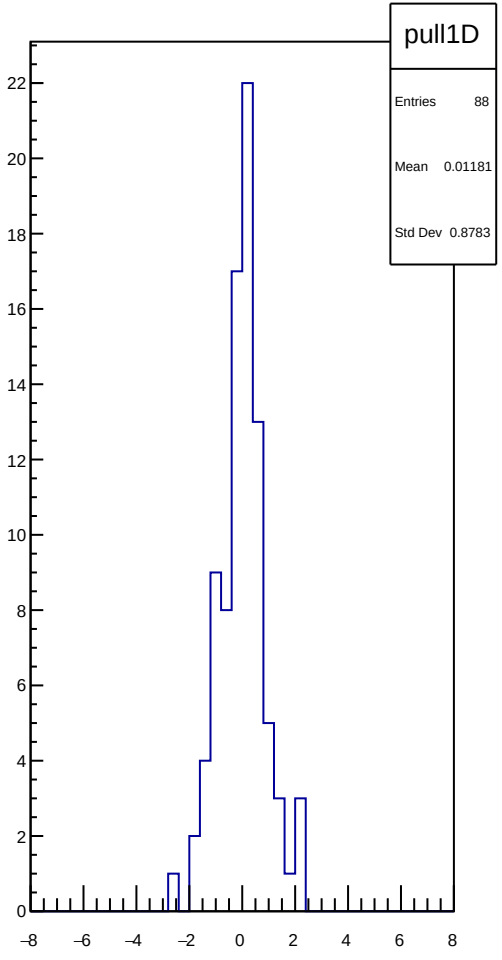

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 6.897e+05 / 87
p0 3.92e−11 ± 3.914e−14

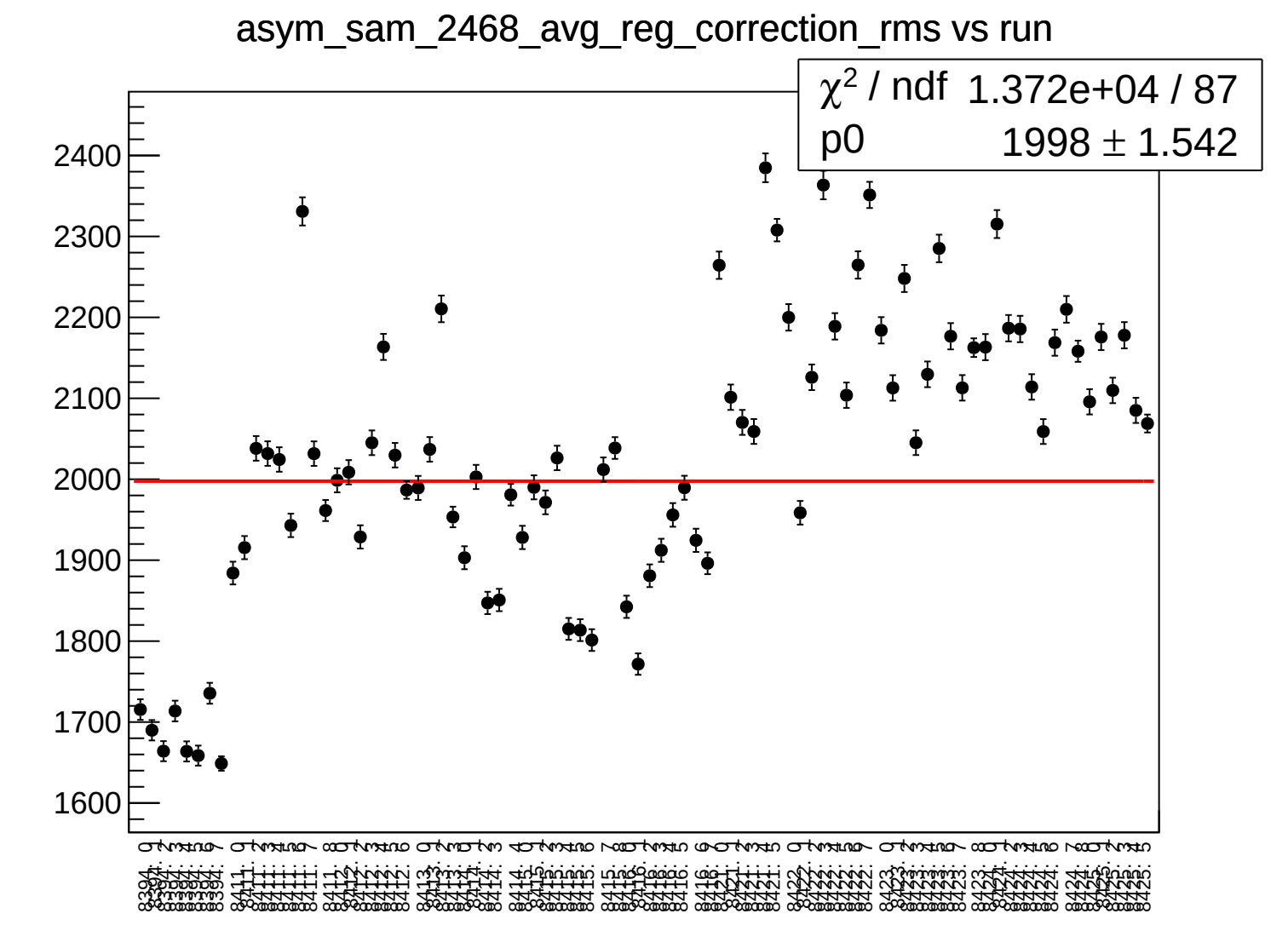

reg_asym_sam_2468_avg_mean vs run
χ^2 / ndf 77 / 87
p0 462.2 ± 142.8
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 410.4
Std Dev 0
2
1
0
−1
−2

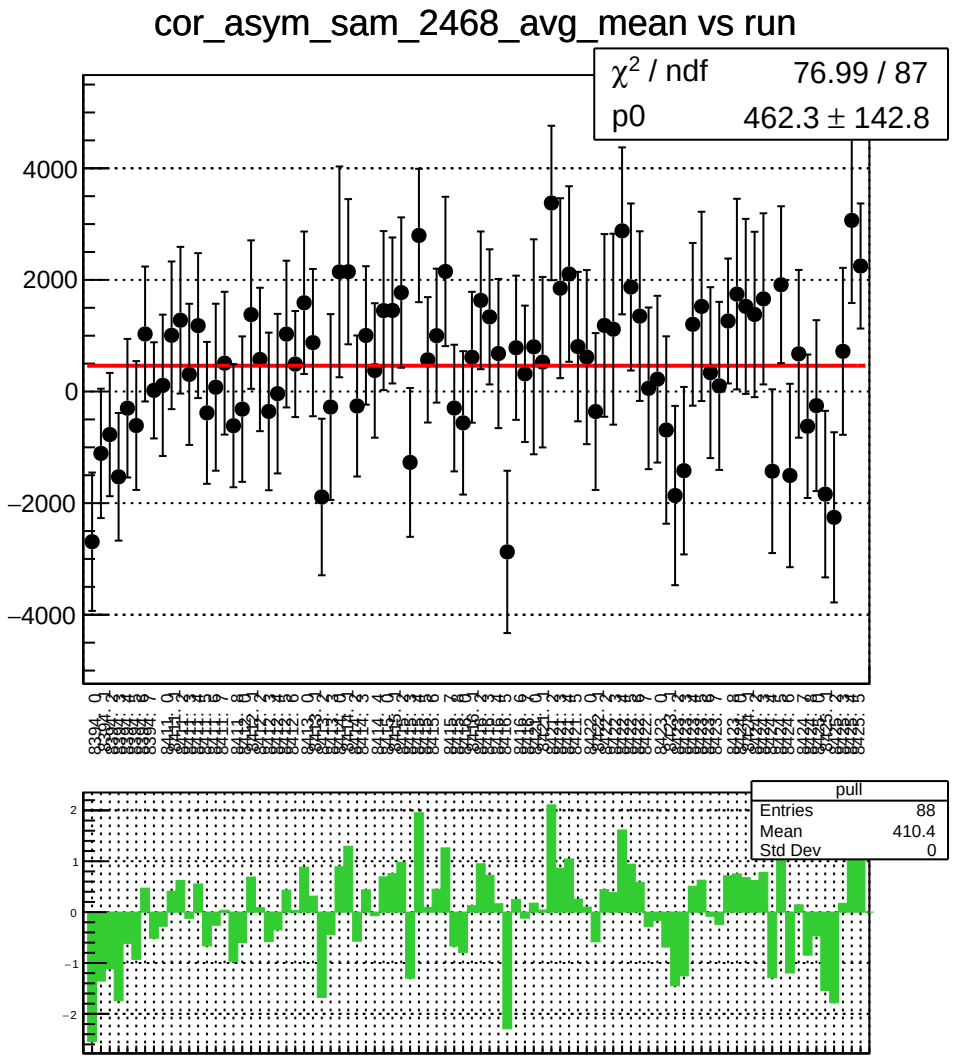

pull1D
Entries 88
Mean 0.01194
Std Dev 0.9353
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

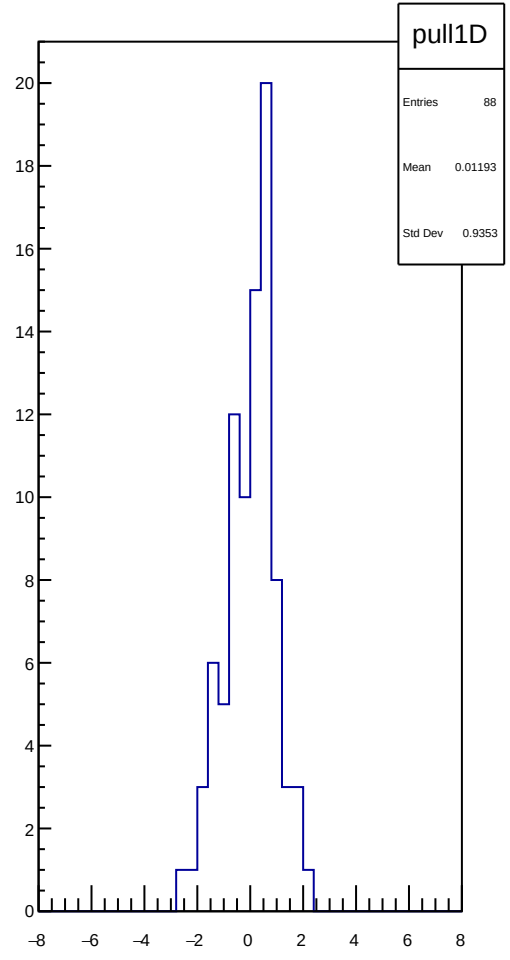

reg_asym_sam_2468_avg_rms vs run
χ^2 / ndf 2.47e+04 / 87
p0 130.4 ± 0.101
190
180
170
160
150
140
130
120
110
100

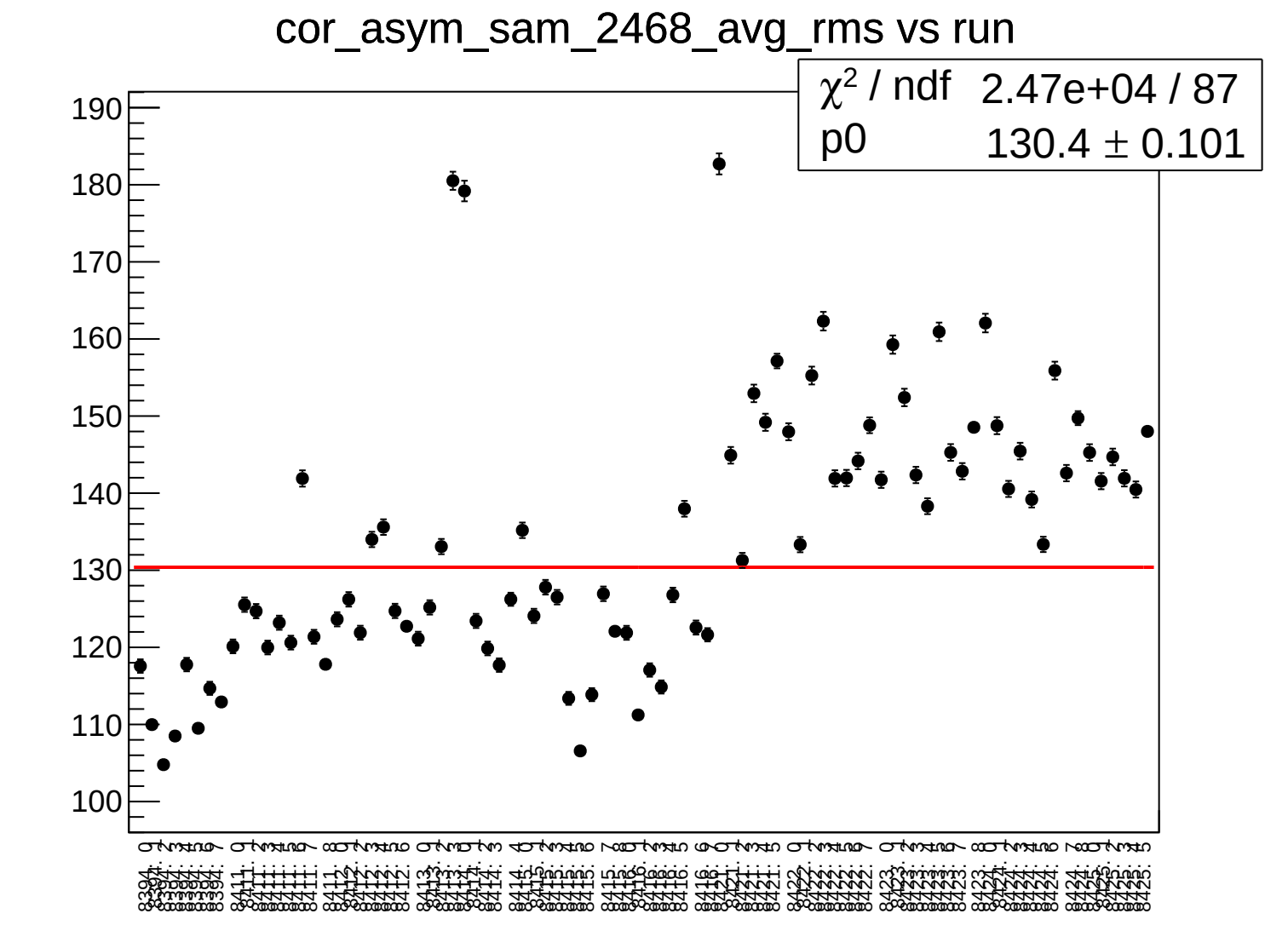

asym_sam_2468_avg_reg_correction_mean vs run
×10^3
χ² / ndf 67.9 / 87
p0 −8963 ± 2180
pull
Entries 88
Mean −288.1
Std Dev 0

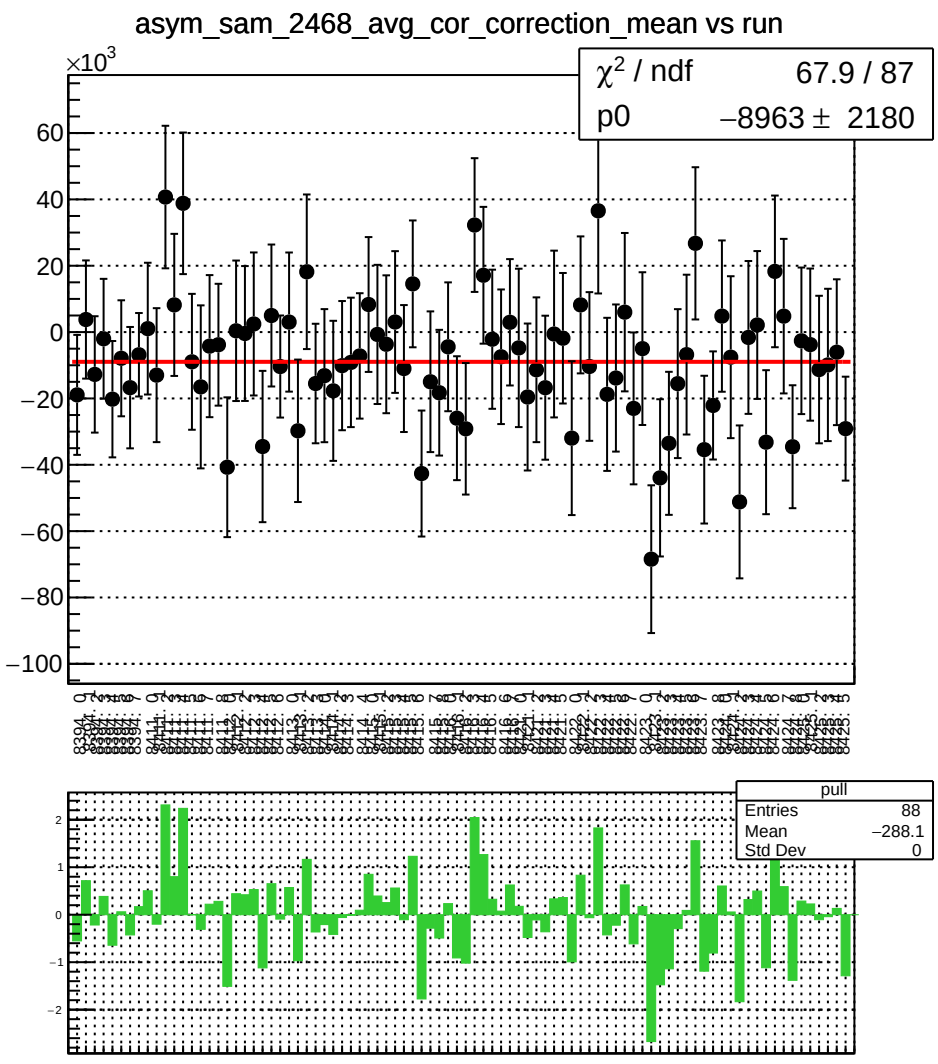

pull1D
Entries 88
Mean 0.01181
Std Dev 0.8783

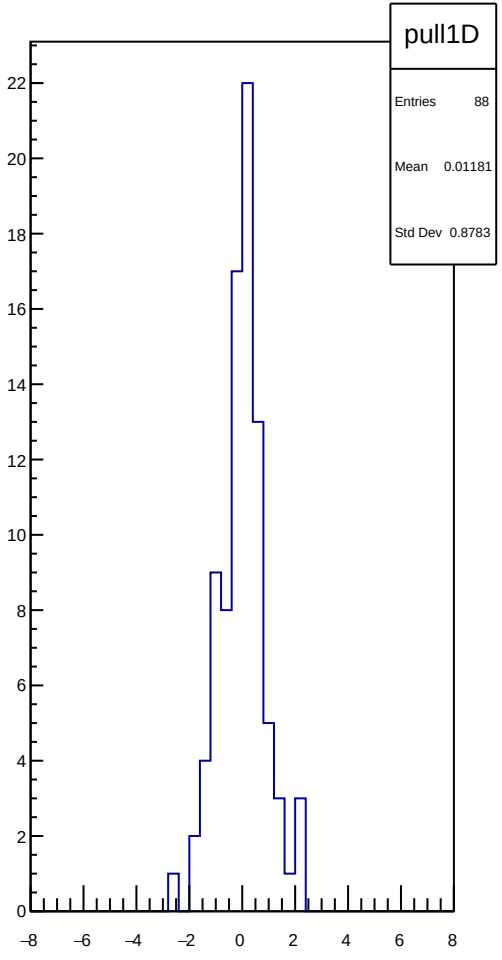

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 1.372e+04 / 87
p0 1998 ± 1.542
2400
2300
2200
2100
2000
1900
1800
1700
1600

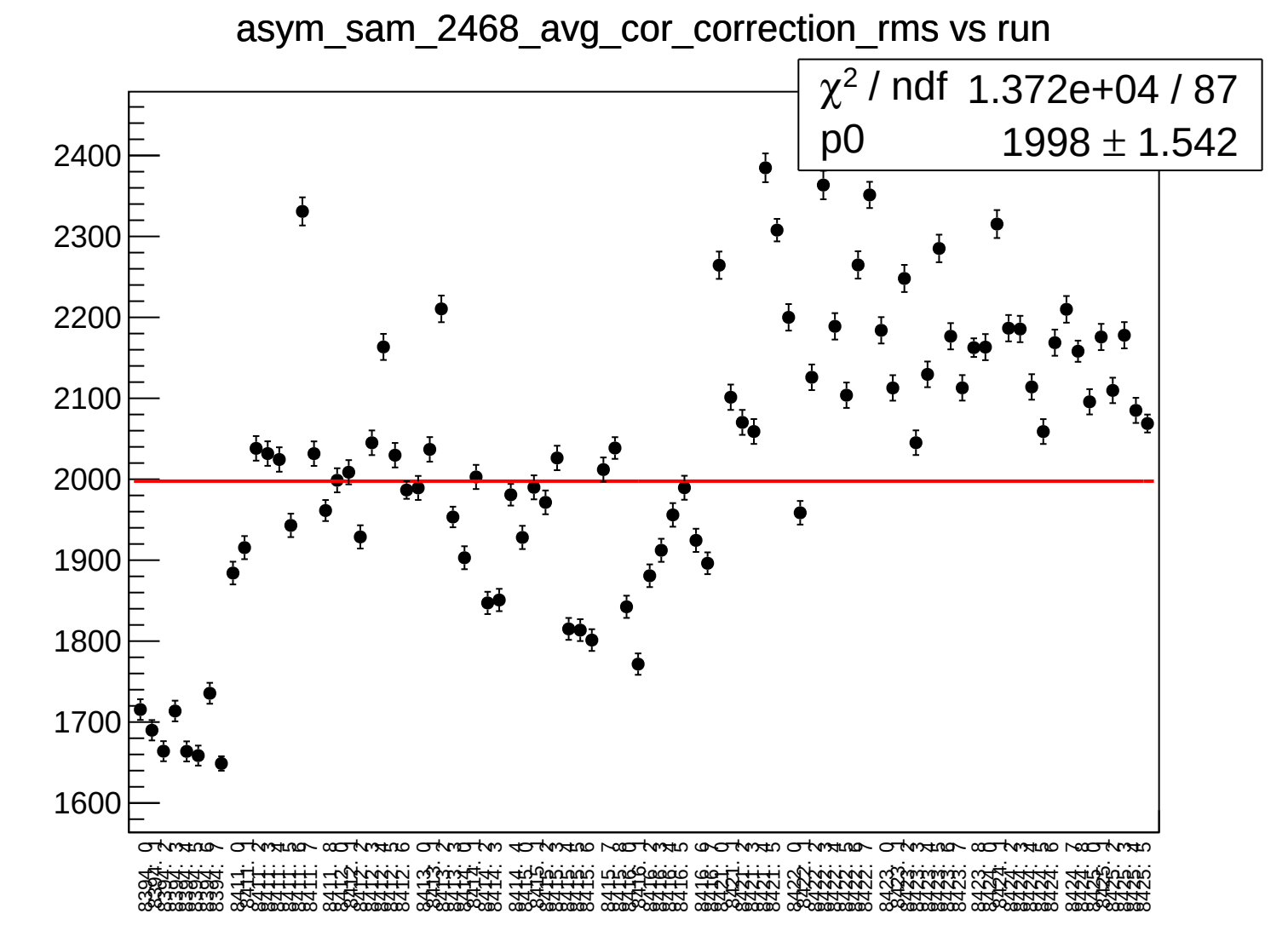

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 76.99 / 87
p0 462.3 ± 142.8
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 410.4
Std Dev 0
2
1
0
−1
−2

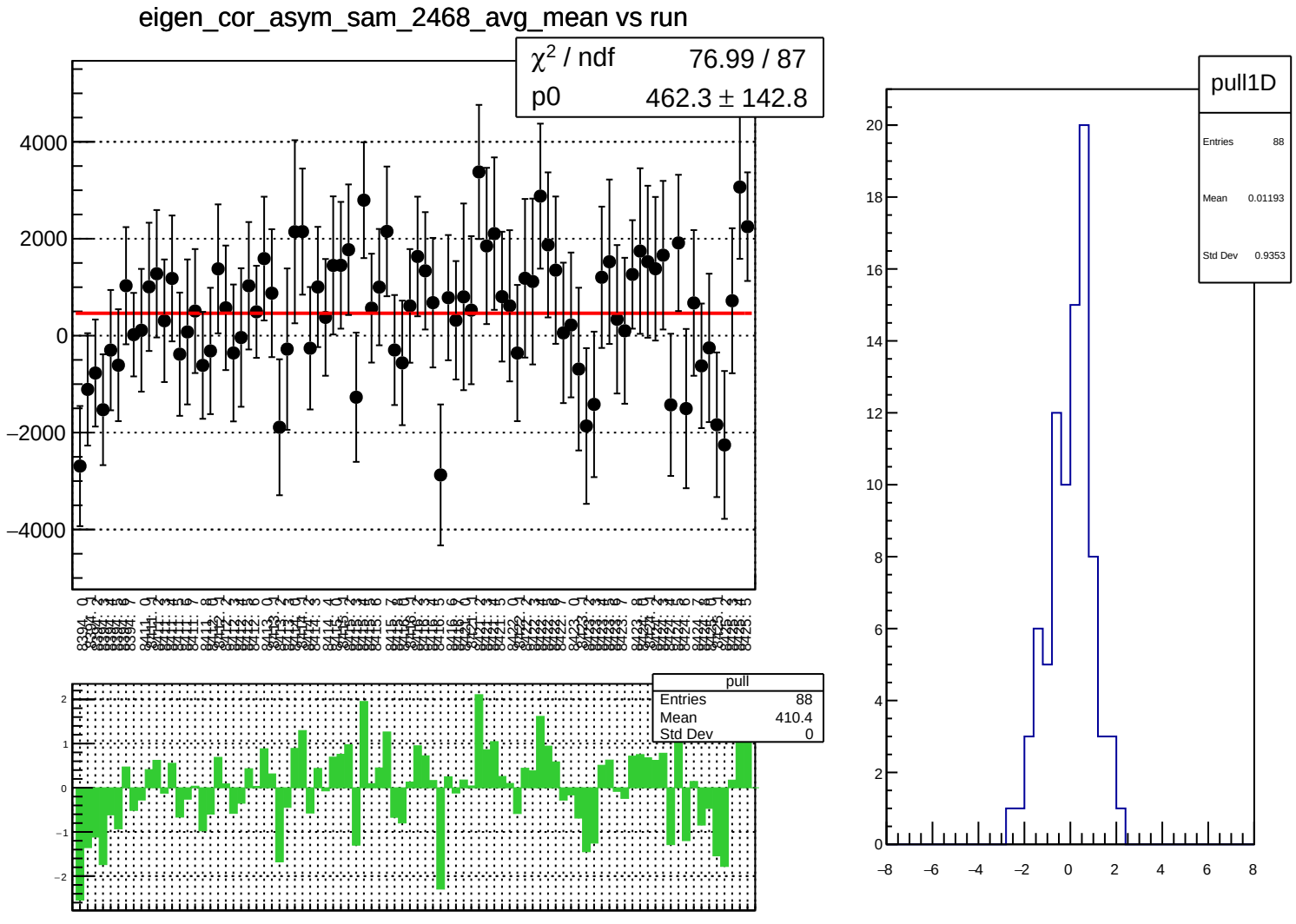

pull1D
Entries 88
Mean 0.01193
Std Dev 0.9353
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

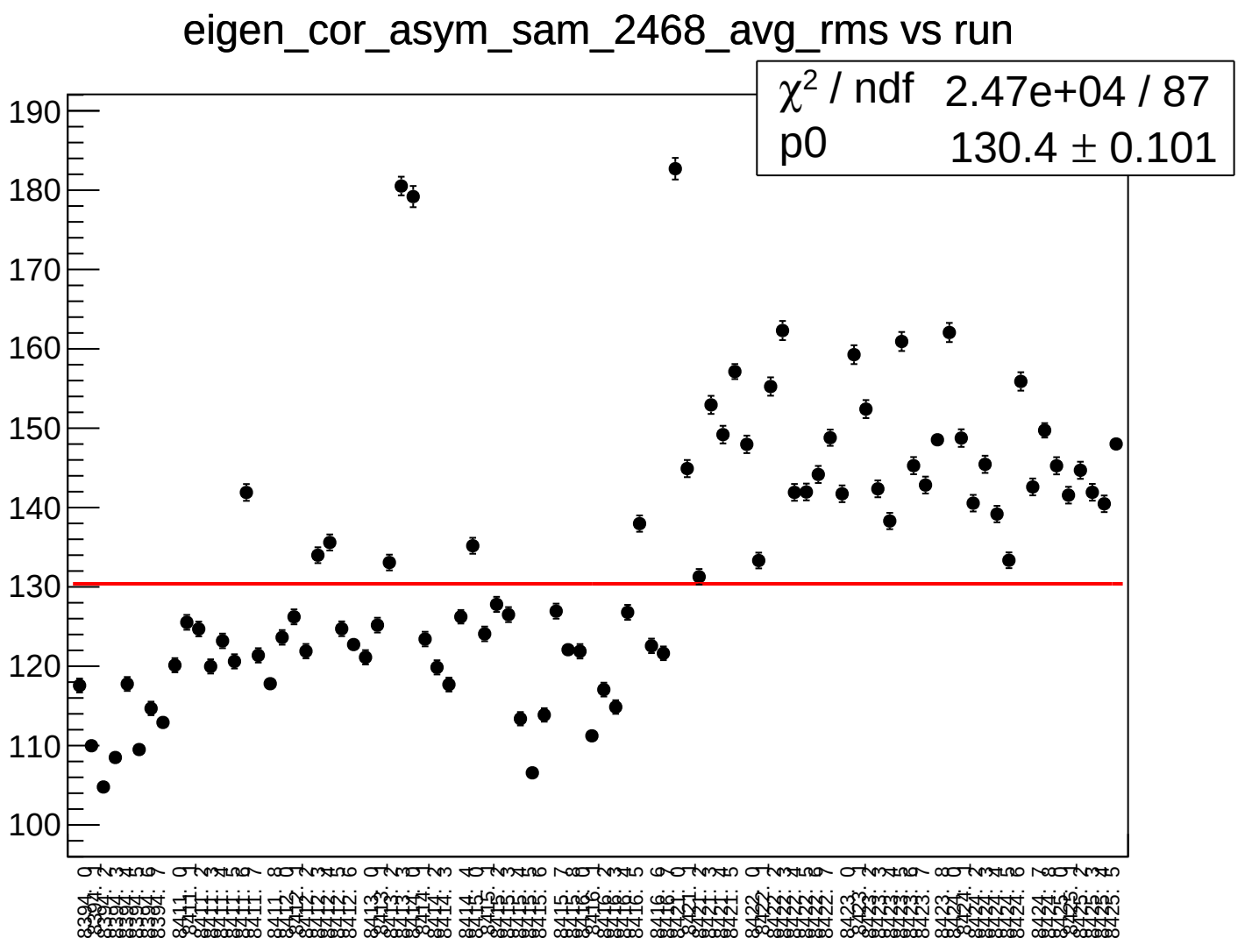

cor_asym_sam_2468_avg_rms vs run
χ^2 / ndf 2.47e+04 / 87
p0 130.4 ± 0.101
190
180
170
160
150
140
130
120
110
100

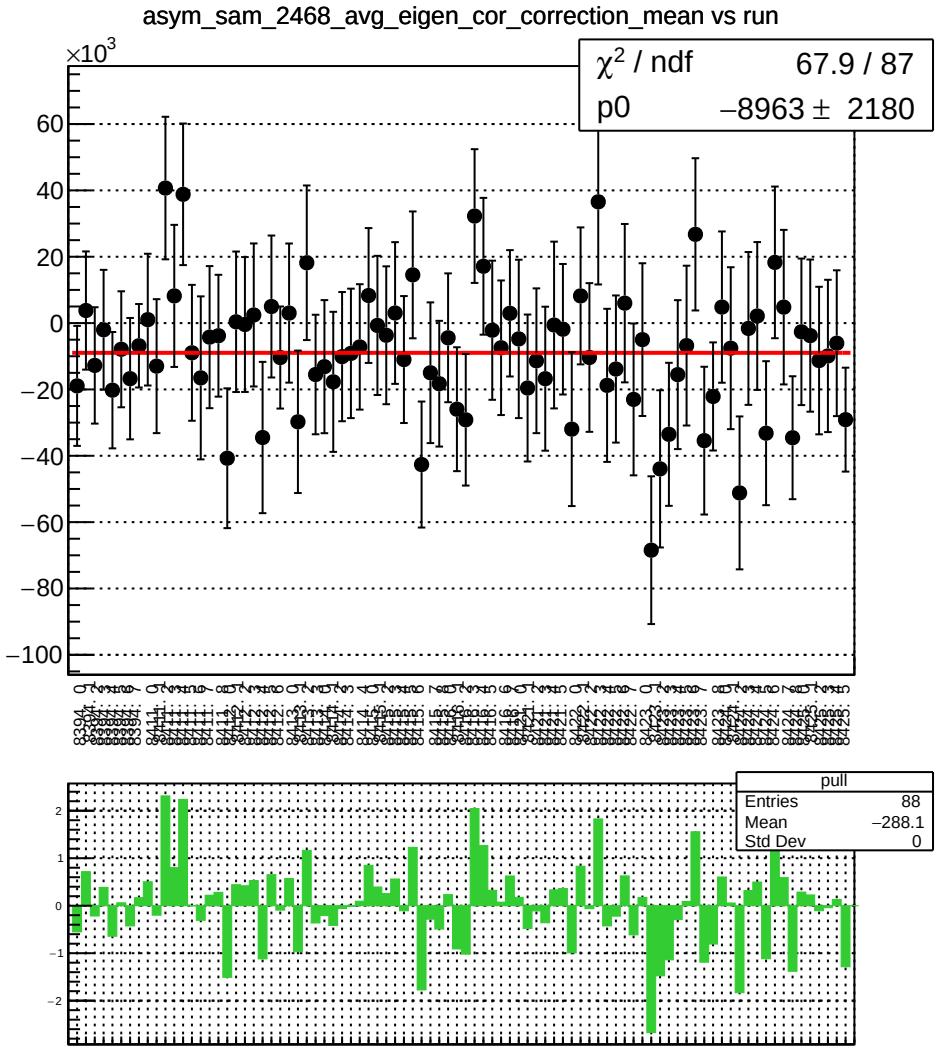

asym_sam_2468_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 67.9 / 87
p0 −8963 ± 2180
pull
Entries 88
Mean −288.1
Std Dev 0

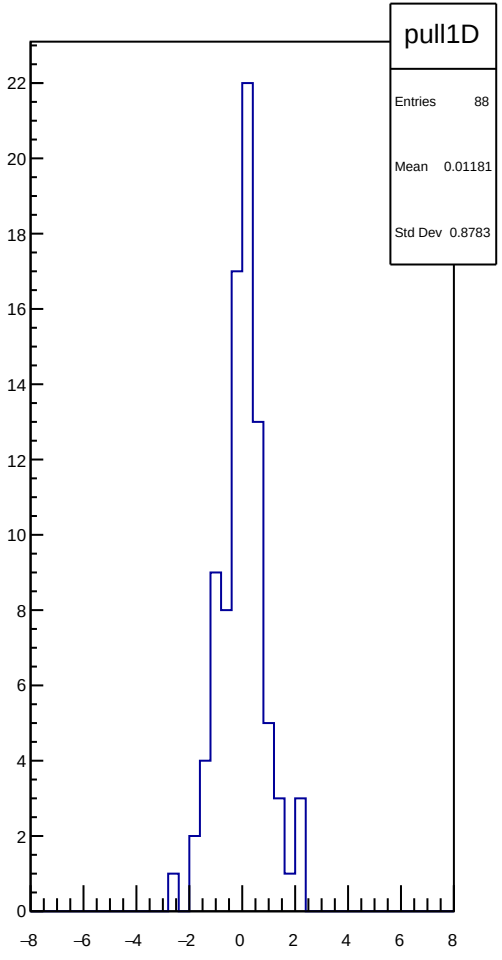

pull1D
Entries 88
Mean 0.01181
Std Dev 0.8783

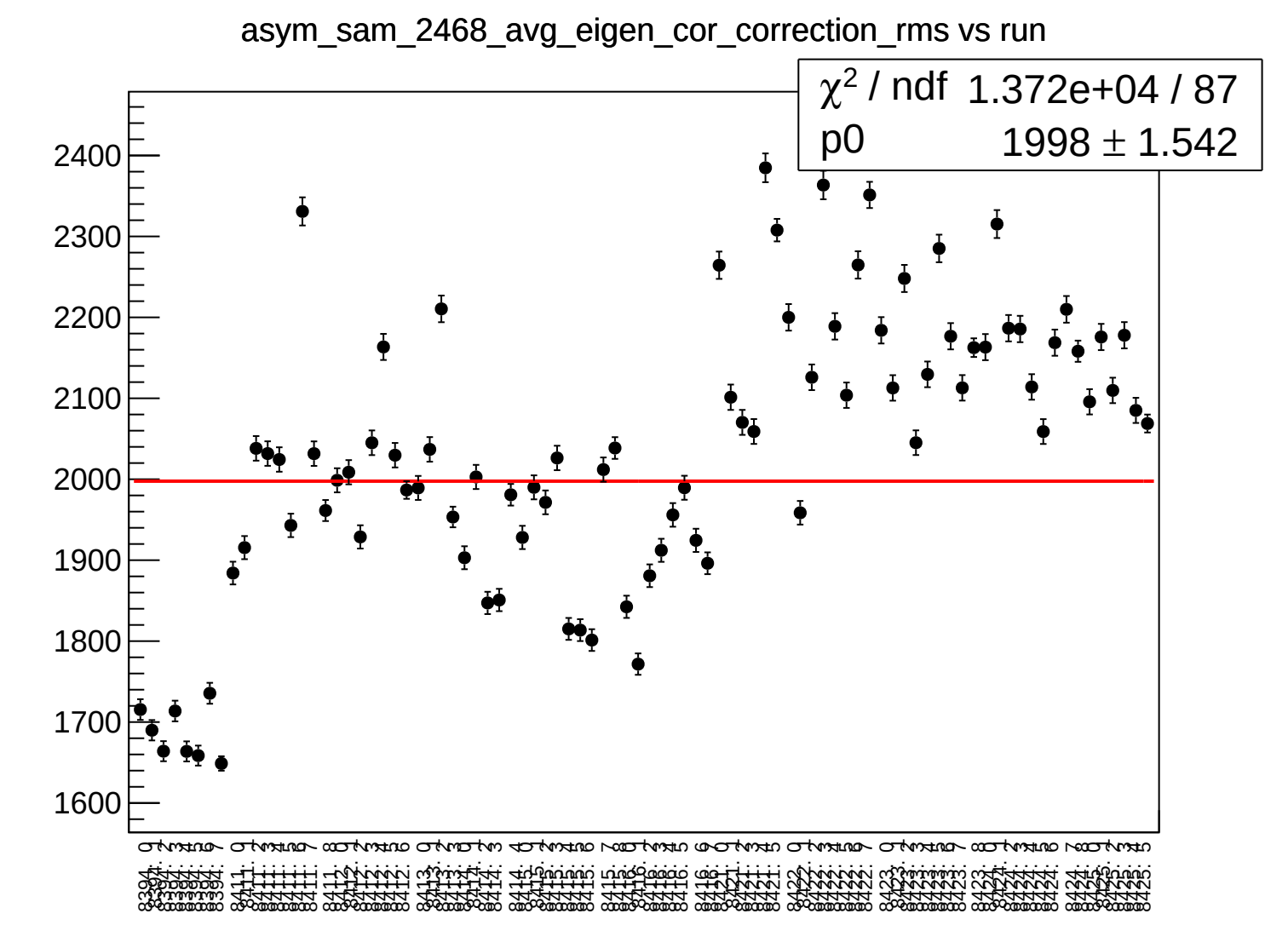

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 1.372e+04 / 87
p0 1998 ± 1.542
2400
2300
2200
2100
2000
1900
1800
1700
1600

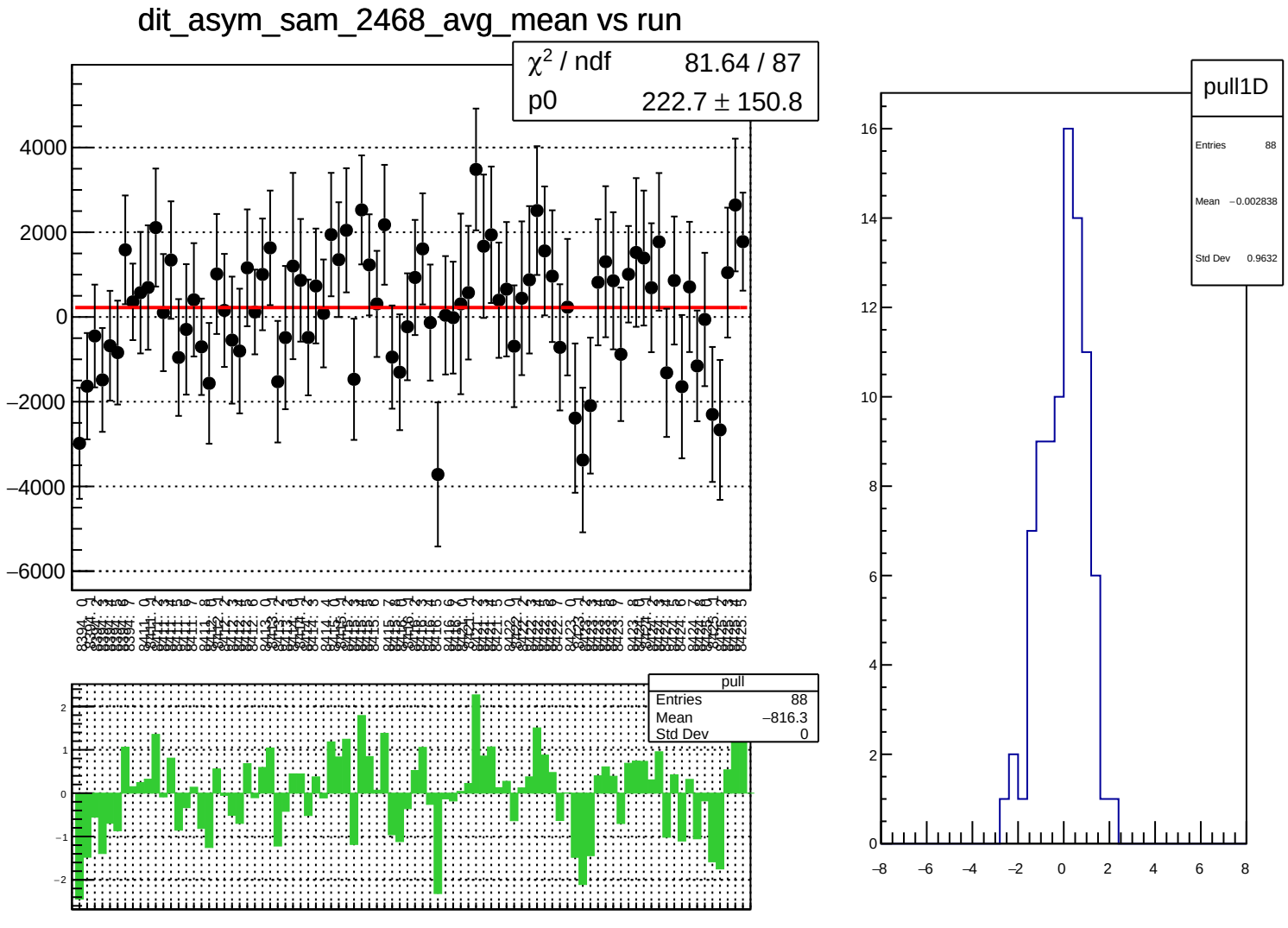

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 76.99 / 87
p0 462.3 ± 142.8
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 410.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01193
Std Dev 0.9353
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

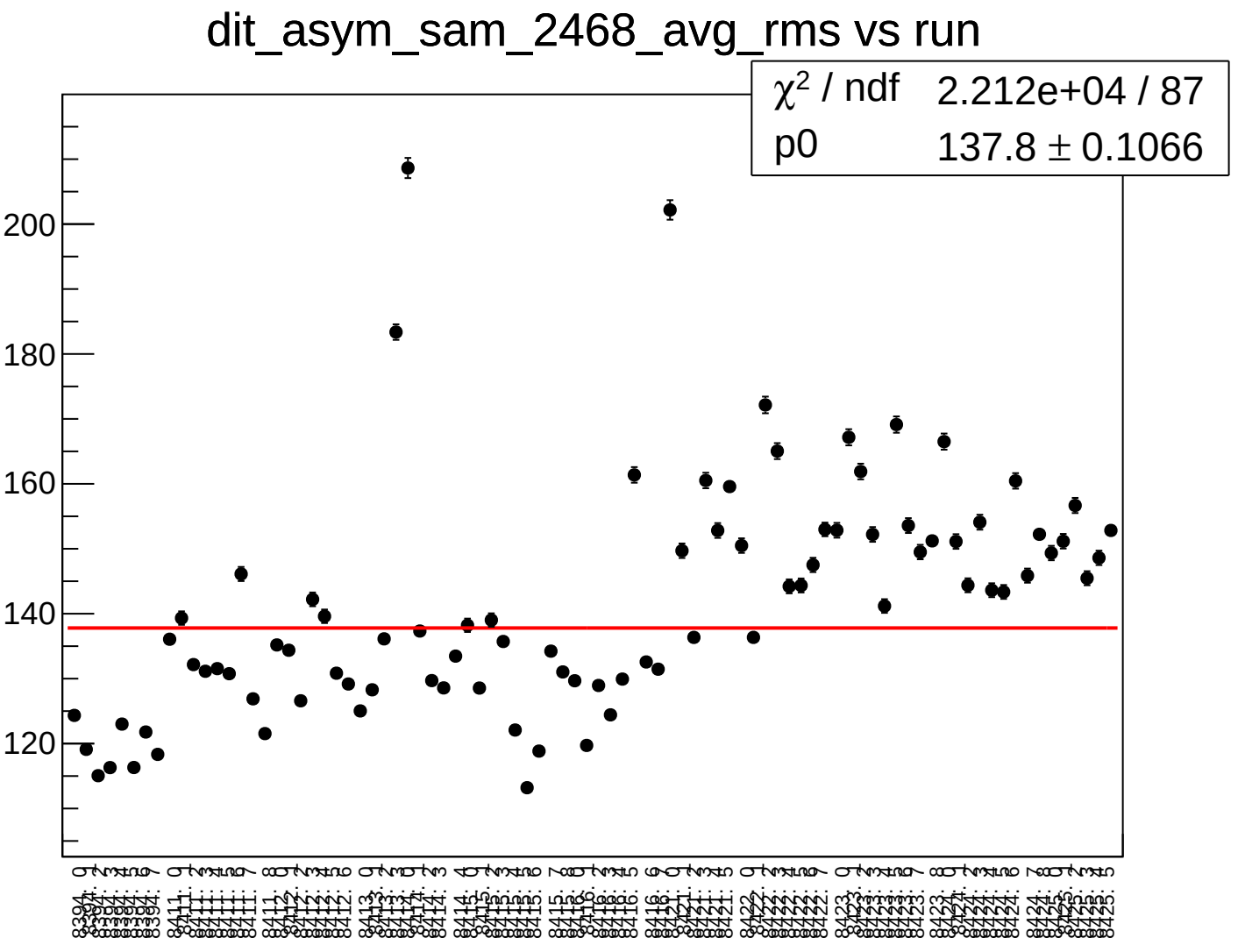

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 2.47e+04 / 87
p0 130.4 ± 0.101
190
180
170
160
150
140
130
120
110
100

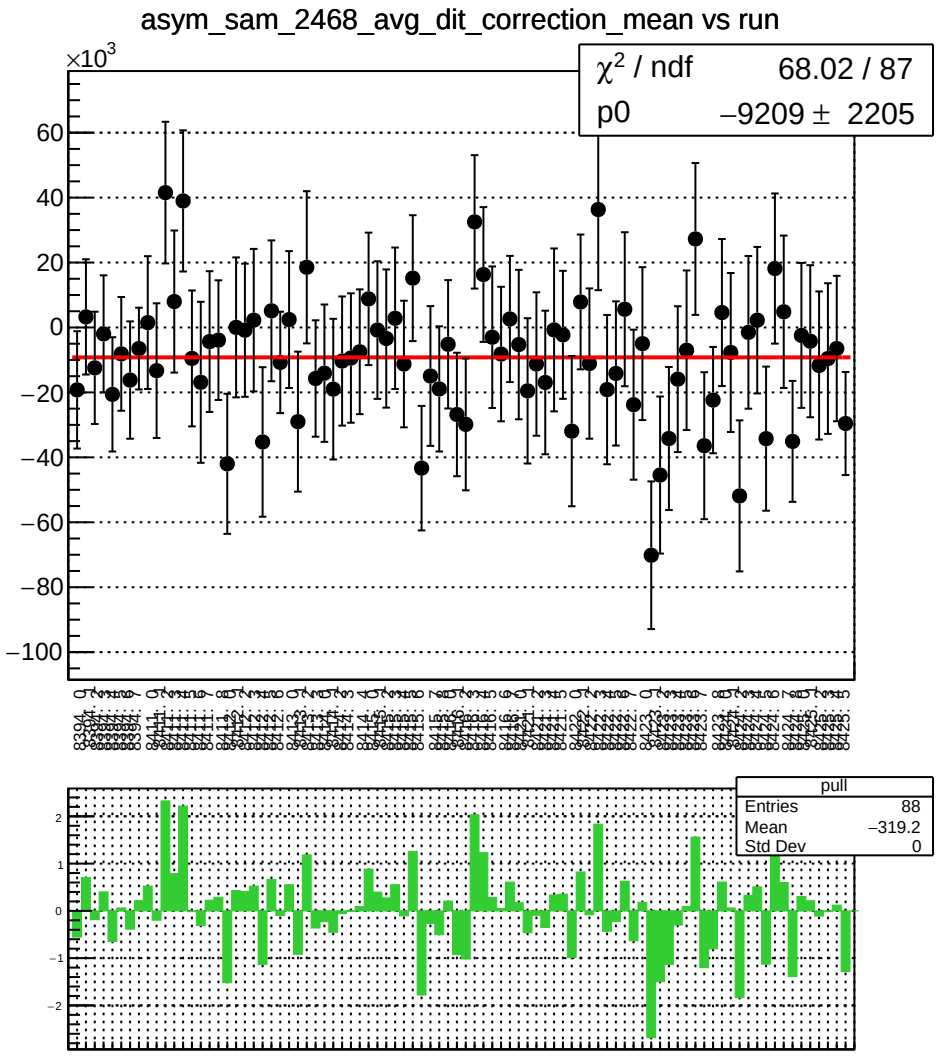

asym_sam_2468_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 67.9 / 87
p0 −8963 ± 2180
60
40
20
0
−20
−40
−60
−80
−100
pull
Entries 88
Mean −288.1
Std Dev 0
2
1
0
−1
−2

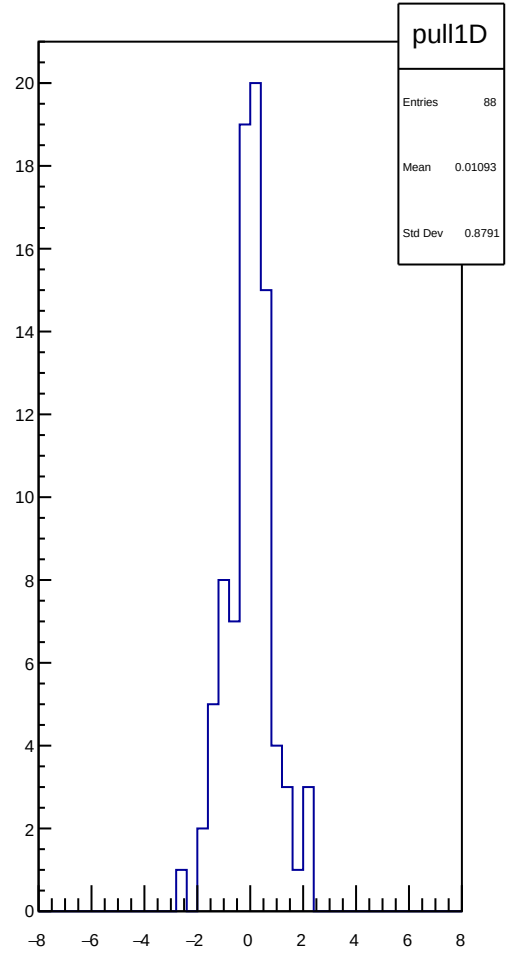

pull1D
Entries 88
Mean 0.01181
Std Dev 0.8783
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

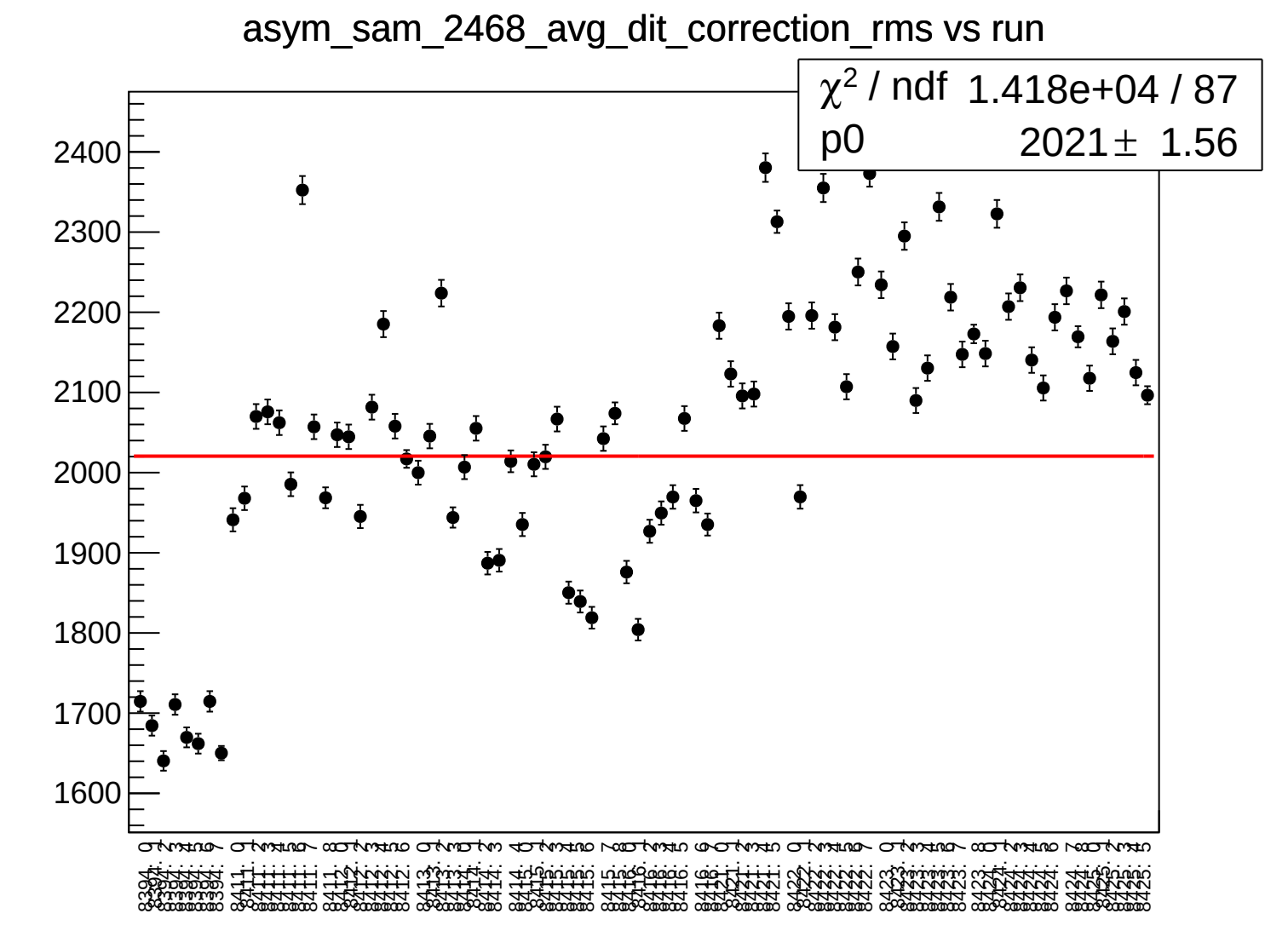

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.372e+04 / 87
p0 1998 ± 1.542
2400
2300
2200
2100
2000
1900
1800
1700
1600

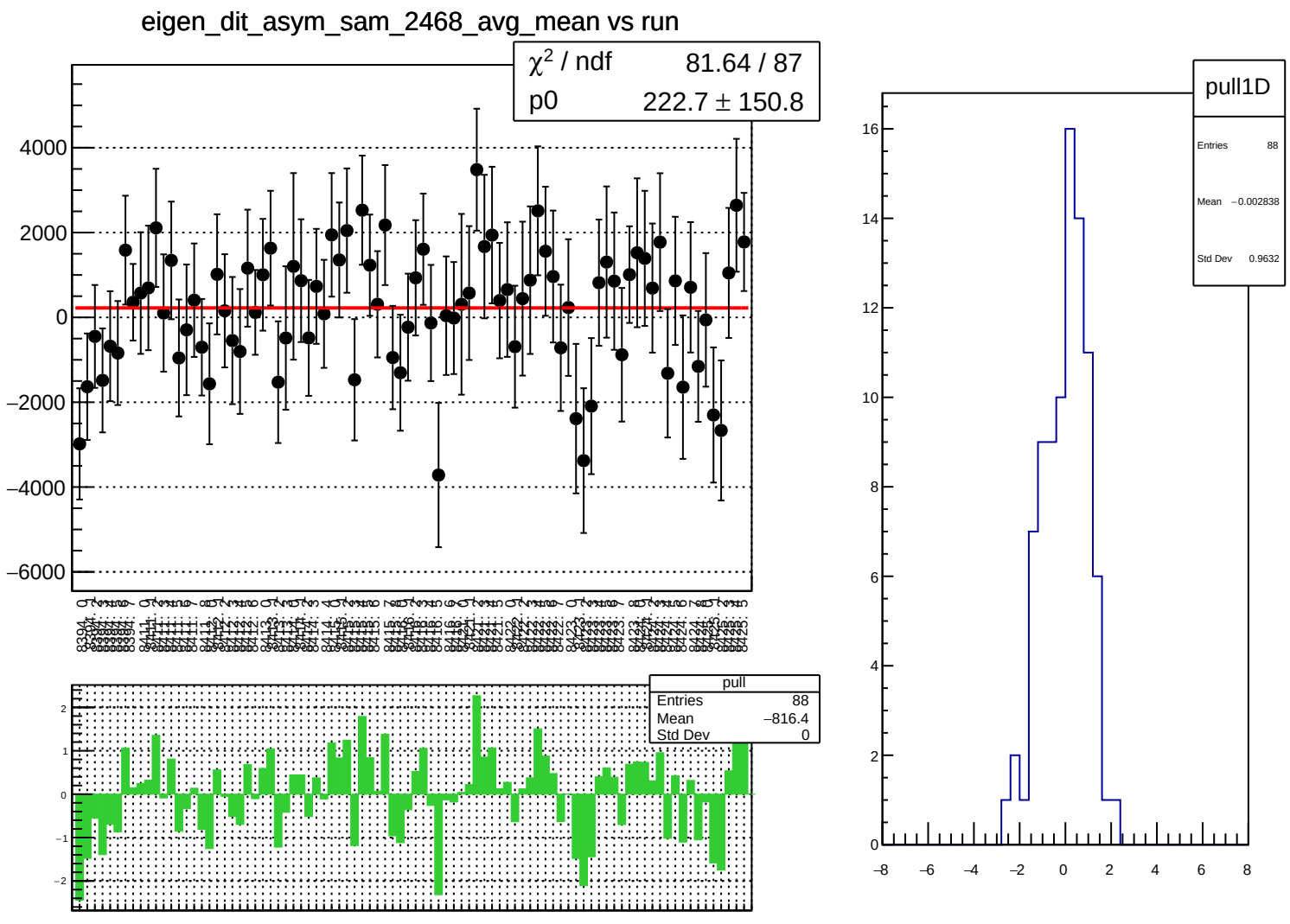

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 81.64 / 87
p0 222.7 ± 150.8
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −816.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.002838
Std Dev 0.9632
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

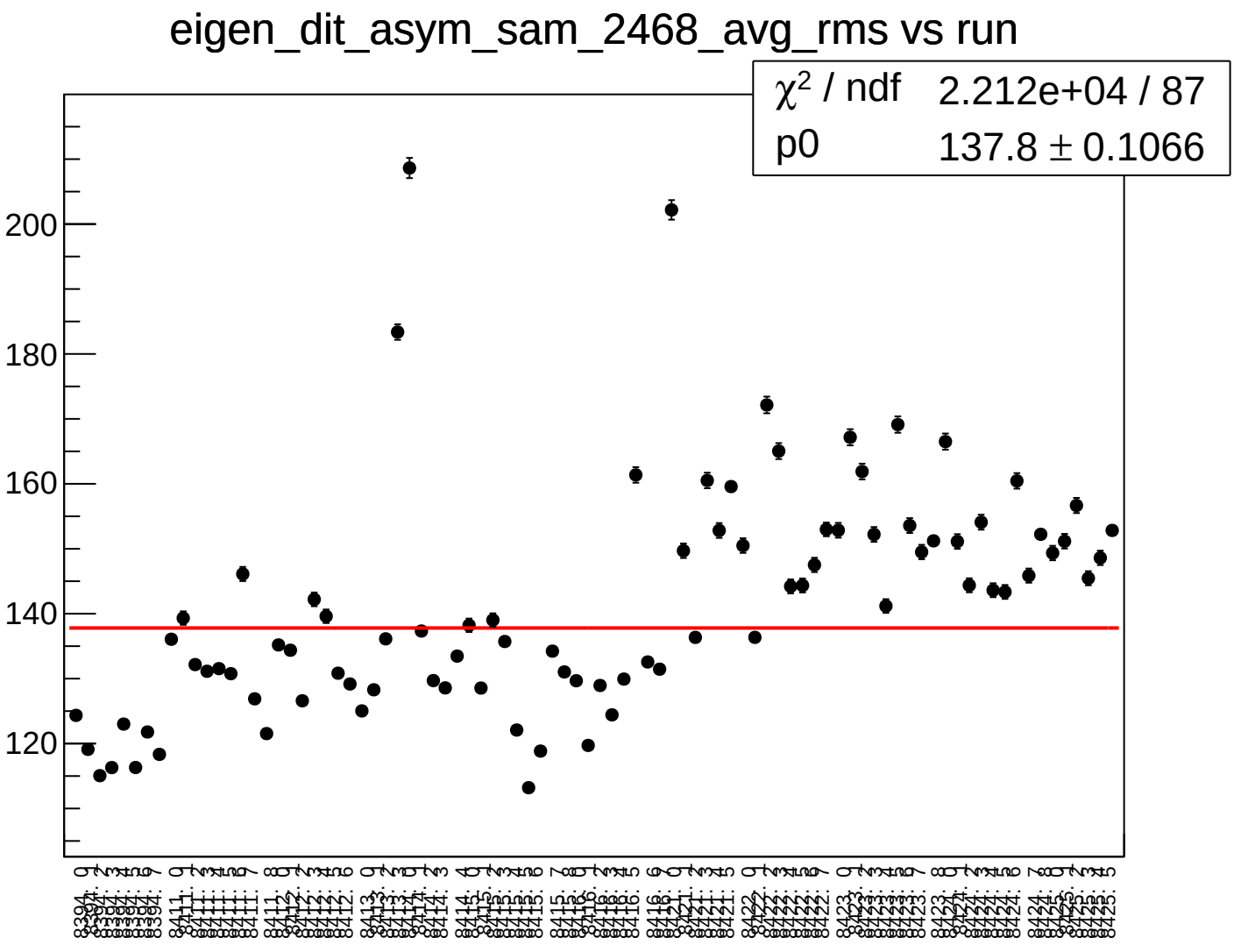

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 2.212e+04 / 87
p0 137.8 ± 0.1066
200
180
160
140
120

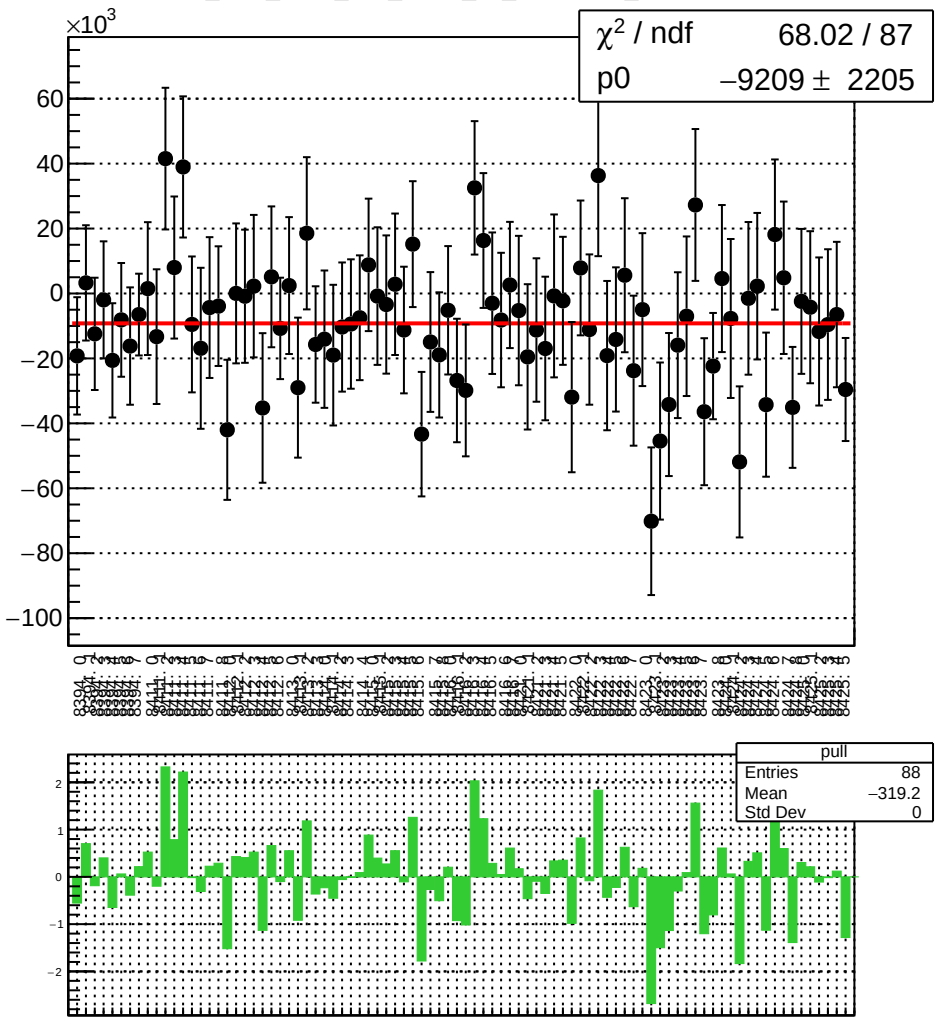

asym_sam_2468_avg_dit_correction_mean vs run
×10^3
χ² / ndf 68.02 / 87
p0 −9209 ± 2205
pull
Entries 88
Mean −319.2
Std Dev 0

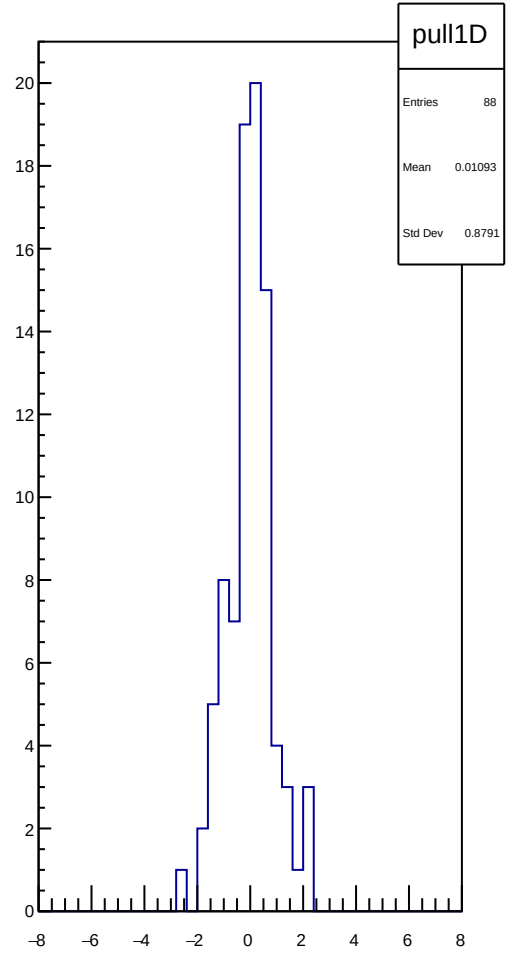

pull1D
Entries 88
Mean 0.01093
Std Dev 0.8791

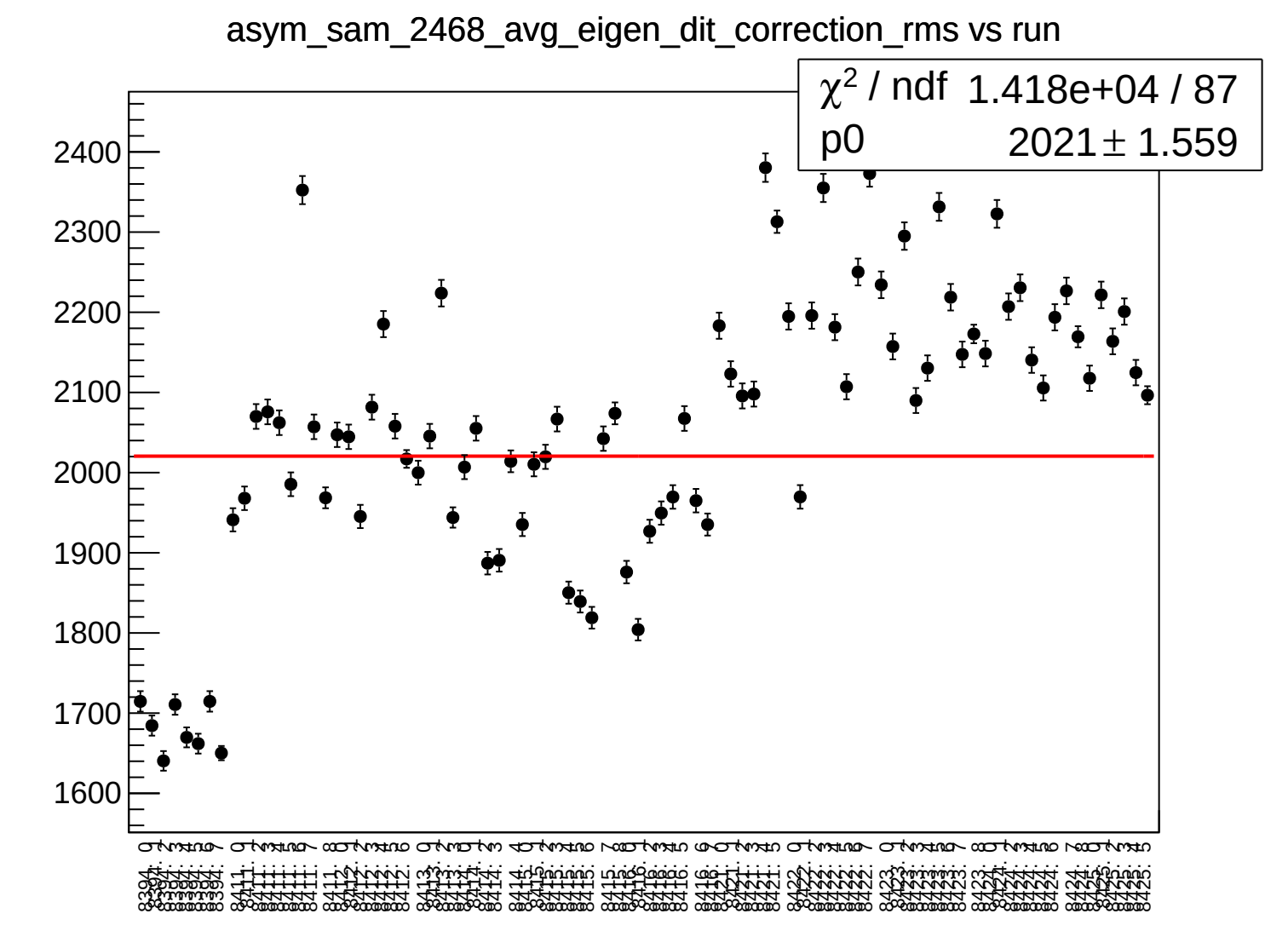

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 1.418e+04 / 87
p0 2021 ± 1.56
2400
2300
2200
2100
2000
1900
1800
1700
1600

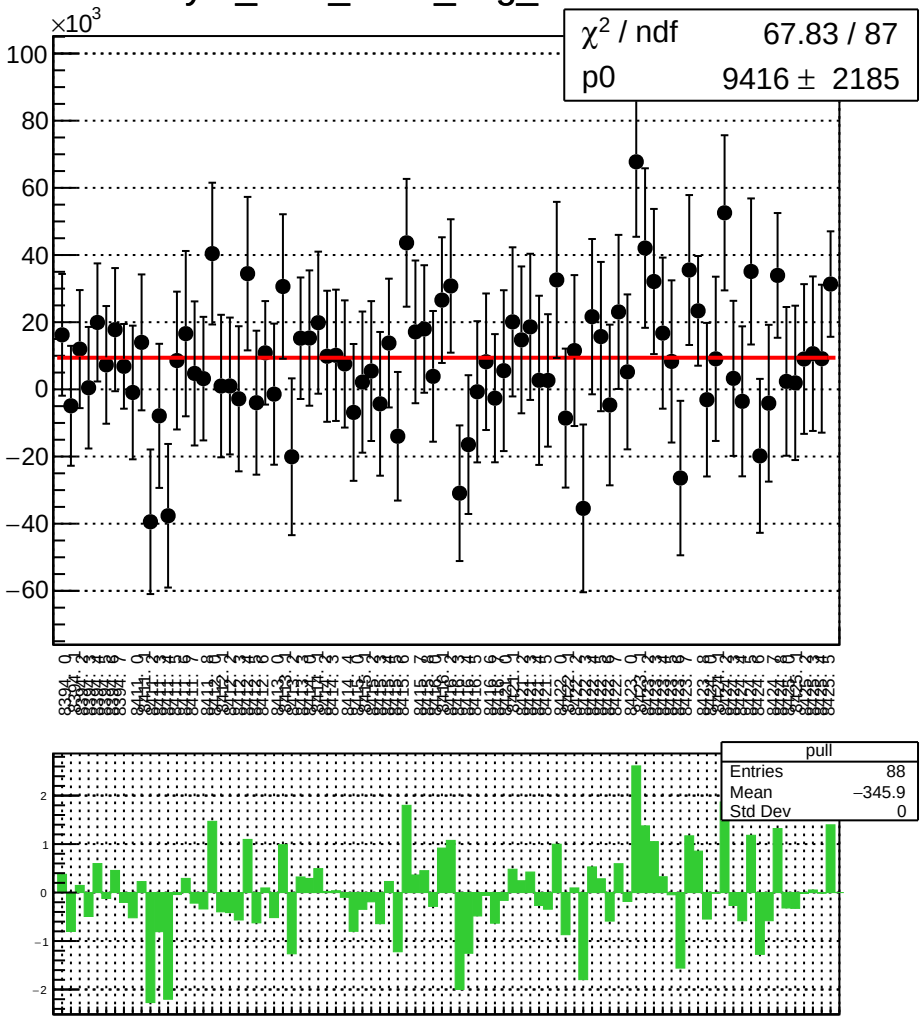

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 81.64 / 87
p0 222.7 ± 150.8
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −816.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.002838
Std Dev 0.9632
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

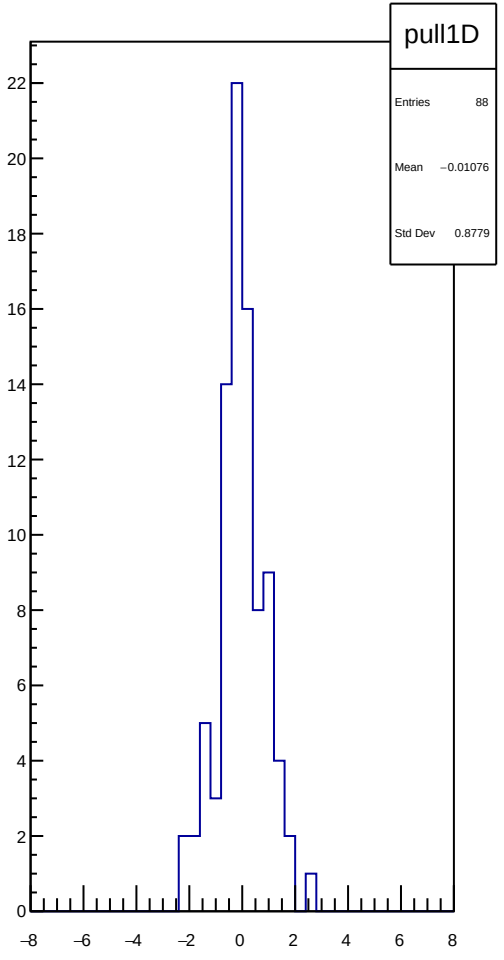

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 2.212e+04 / 87
p0 137.8 ± 0.1066
200
180
160
140
120

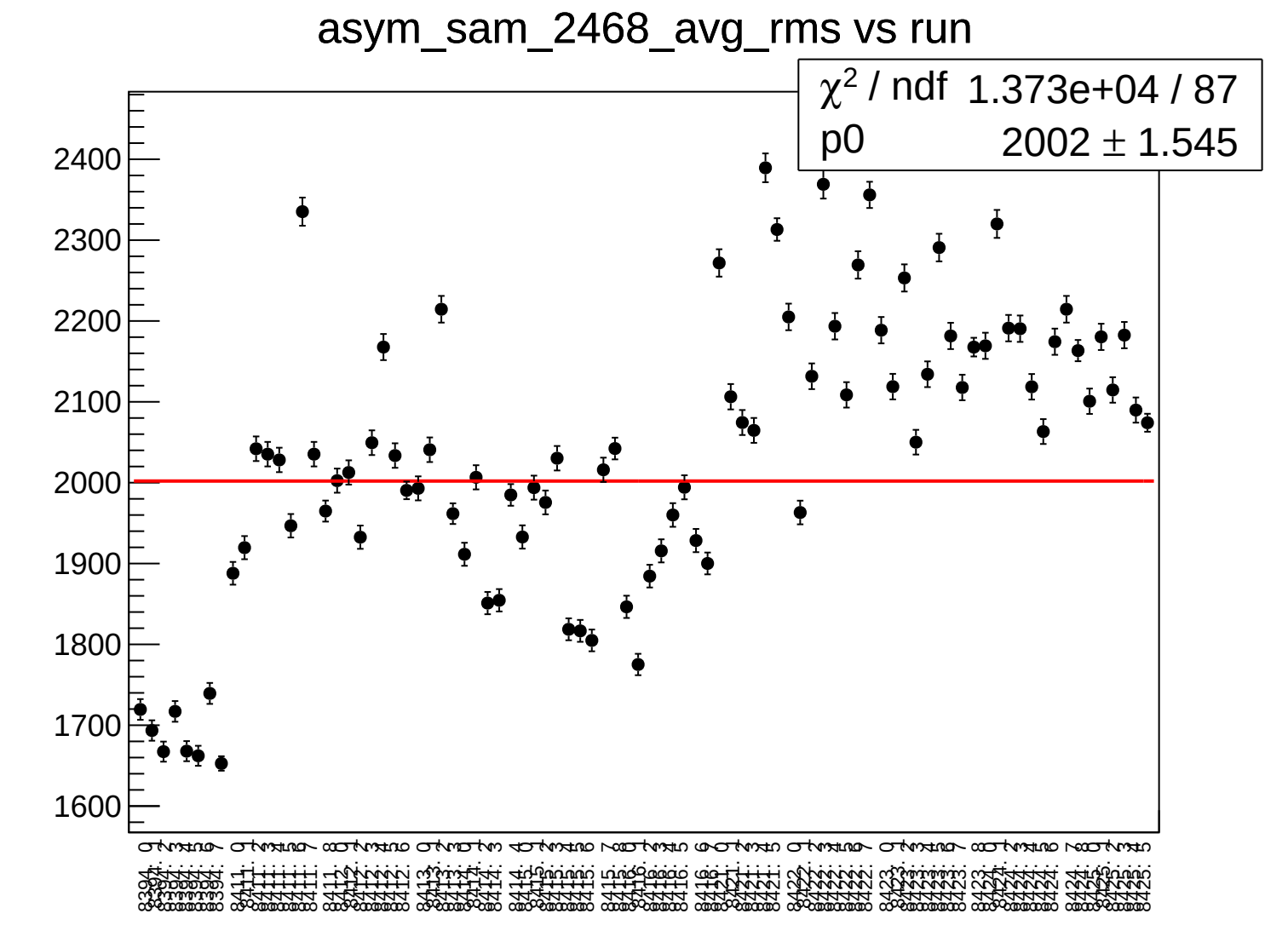

asym_sam_2468_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 68.02 / 87
p0 −9209 ± 2205
pull
Entries 88
Mean −319.2
Std Dev 0

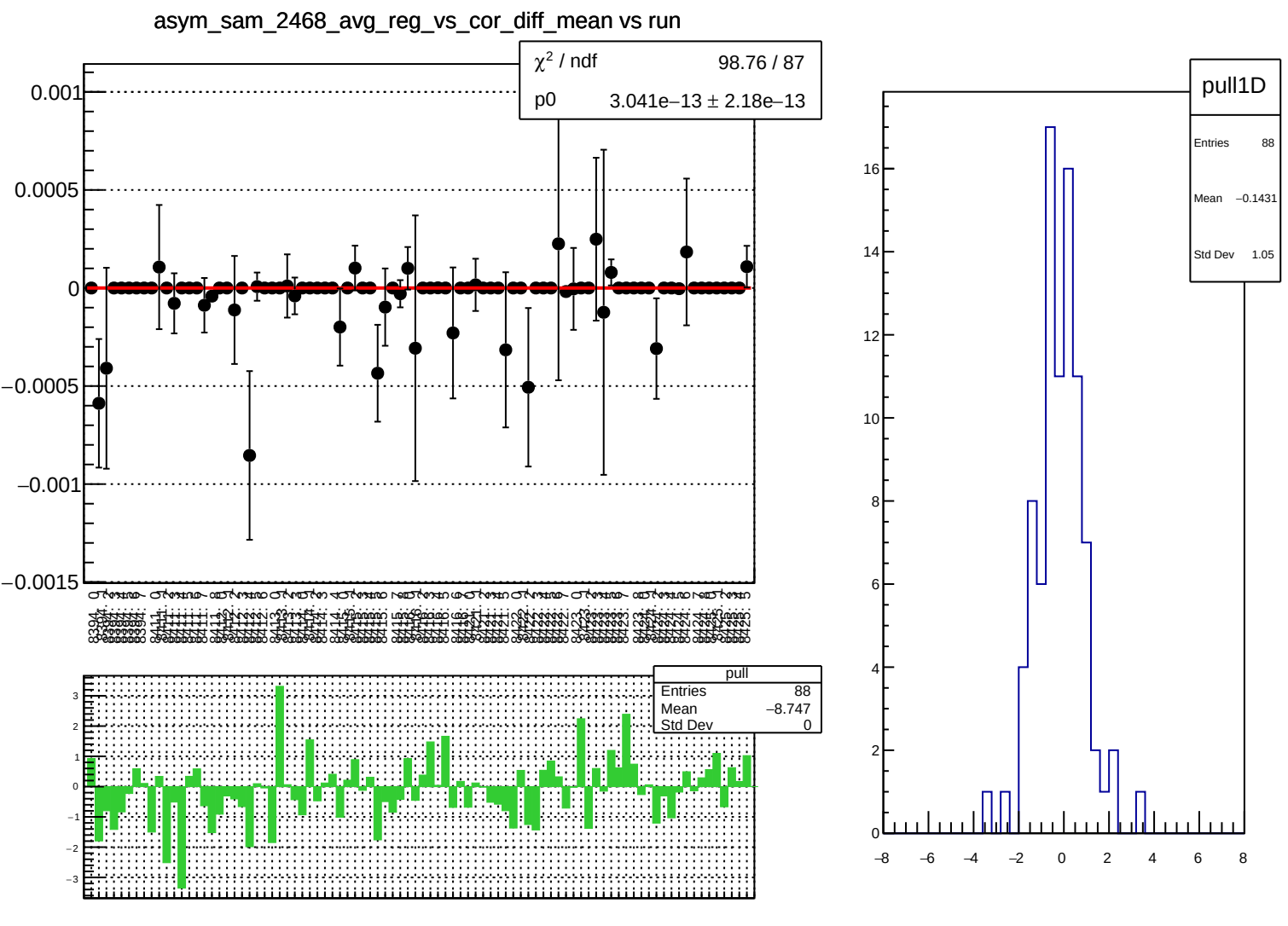

pull1D
Entries 88
Mean 0.01093
Std Dev 0.8791

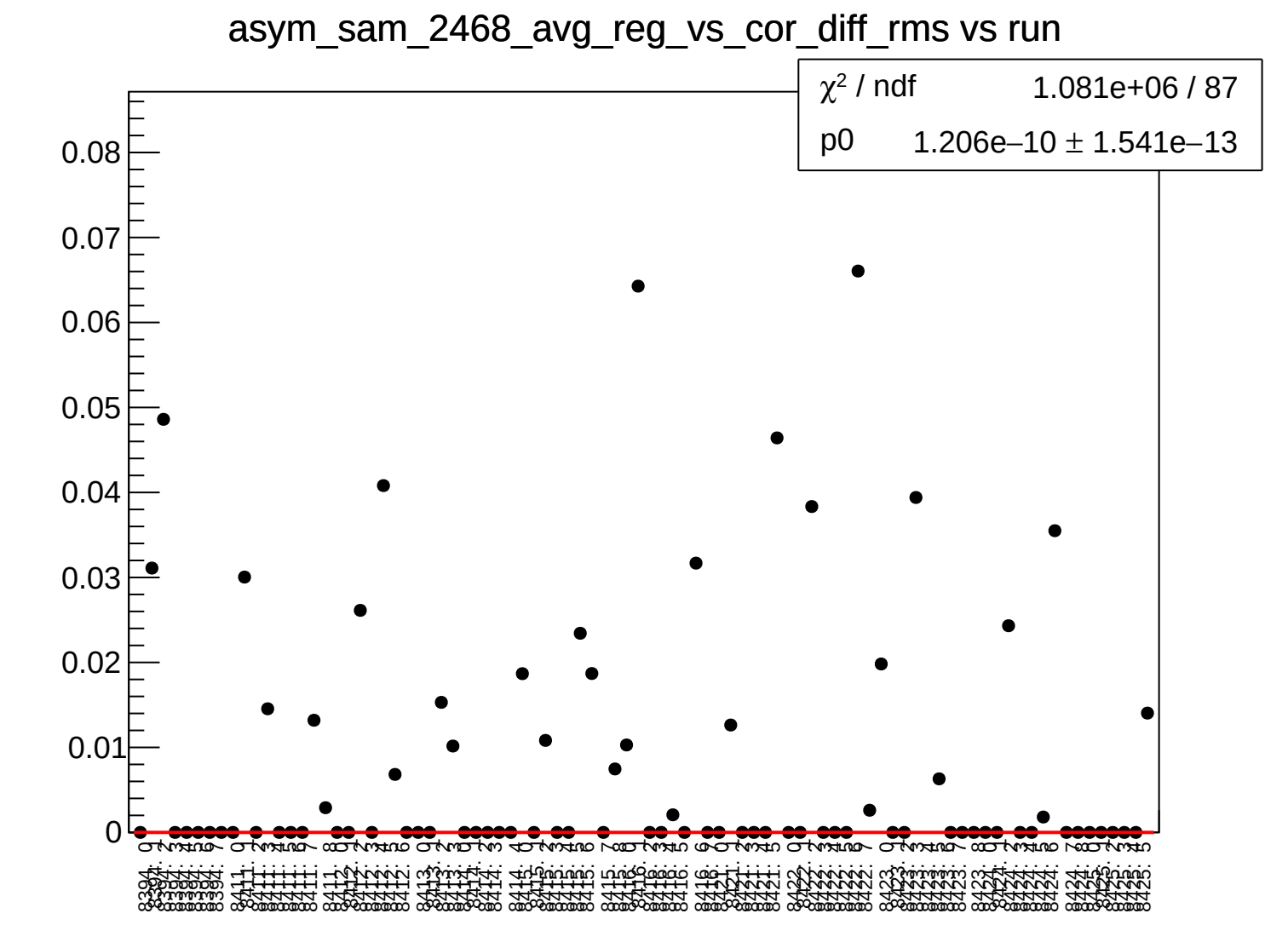

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.418e+04 / 87
p0 2021 ± 1.559
2400
2300
2200
2100
2000
1900
1800
1700
1600

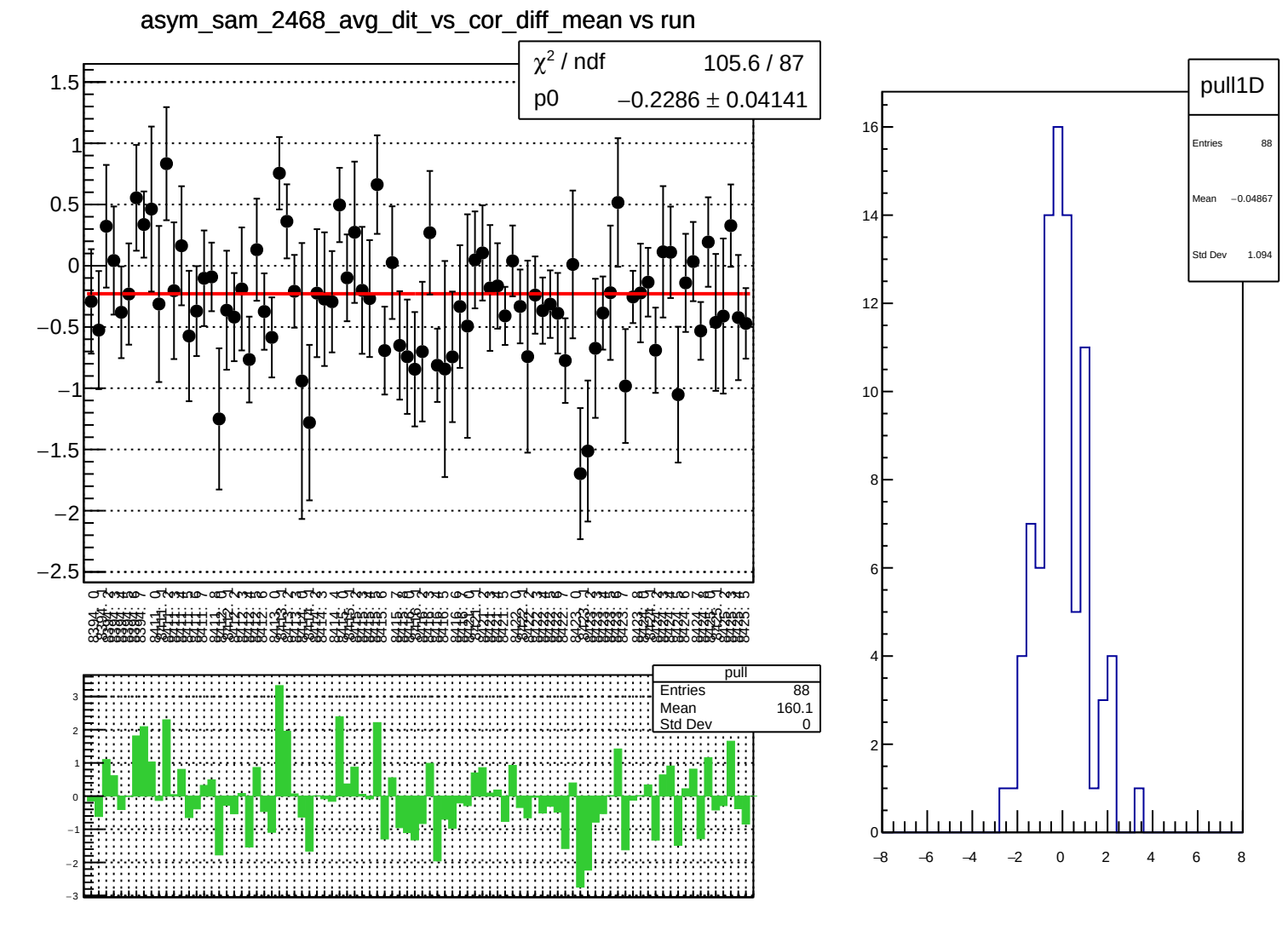

asym_sam_2468_avg_mean vs run
×10^3
χ² / ndf 67.83 / 87
p0 9416 ± 2185
pull
Entries 88
Mean −345.9
Std Dev 0

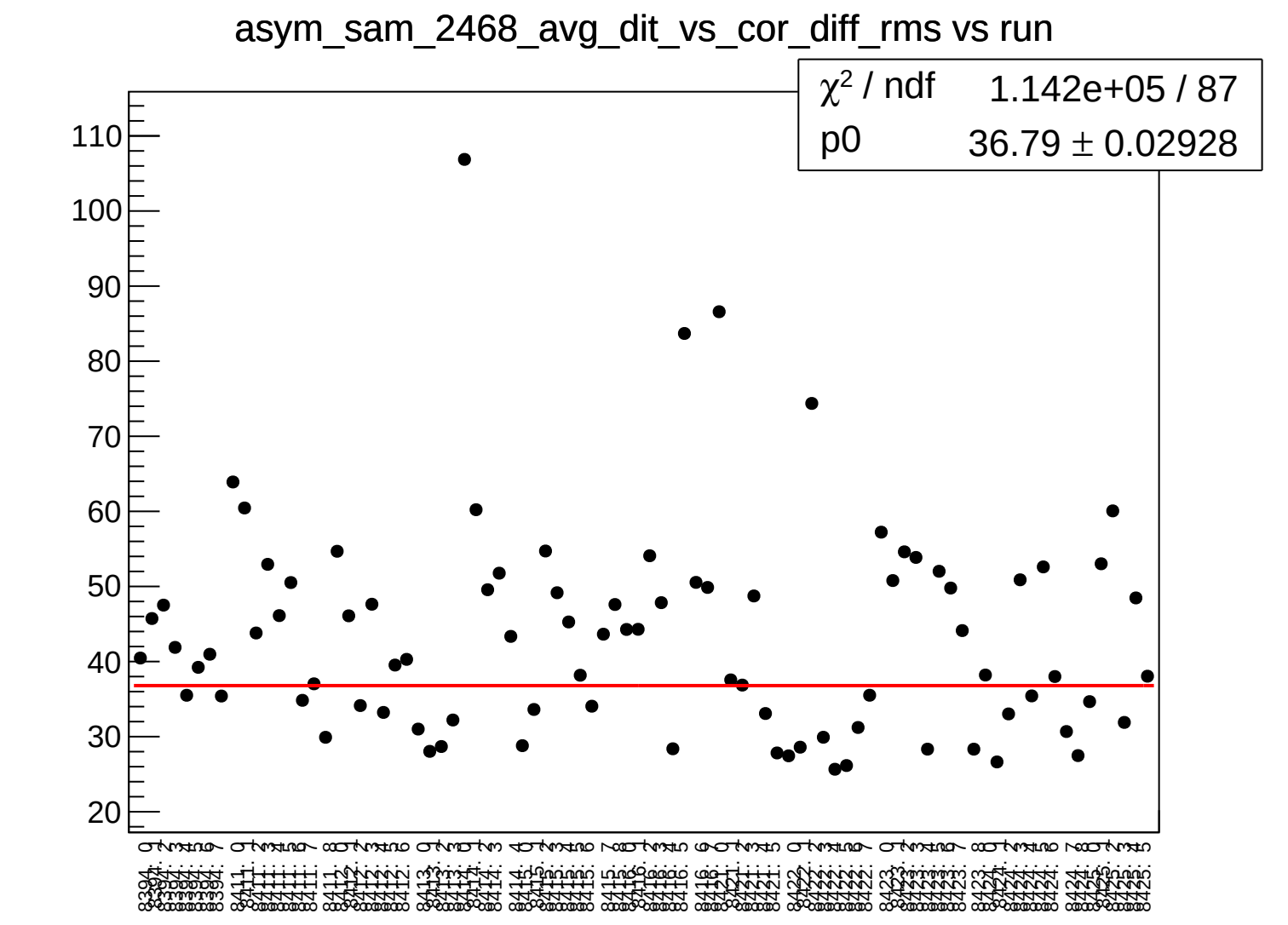

pull1D
Entries 88
Mean −0.01076
Std Dev 0.8779

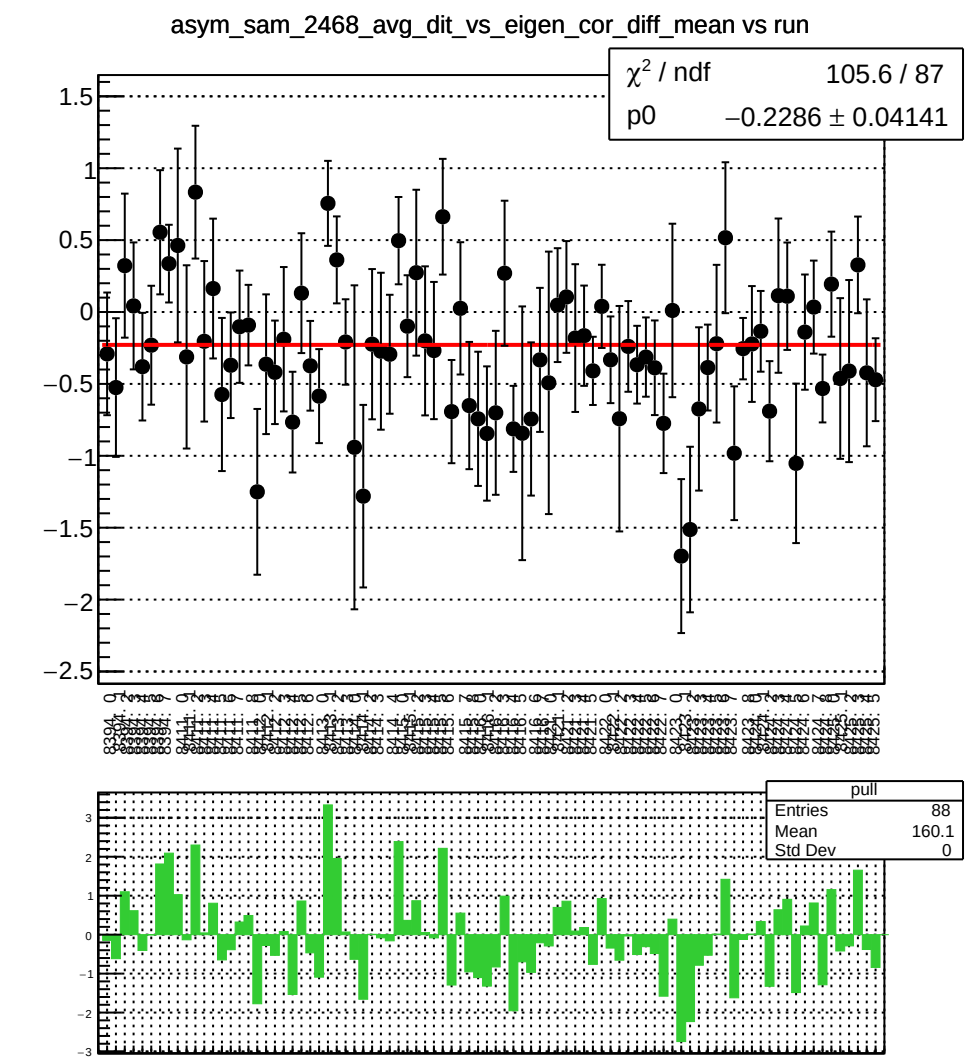

asym_sam_2468_avg_rms vs run
χ² / ndf 1.373e+04 / 87
p0 2002 ± 1.545
2400
2300
2200
2100
2000
1900
1800
1700
1600

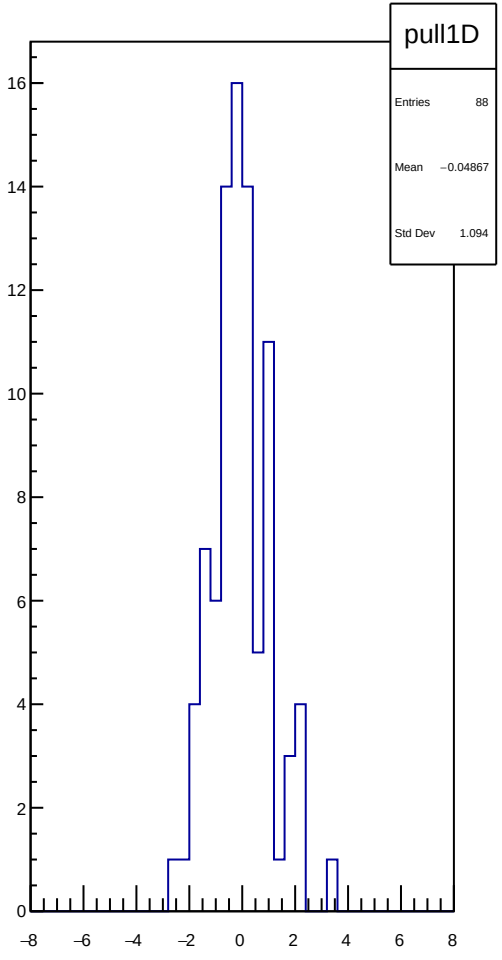

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 98.76 / 87
p0 3.041e−13 ± 2.18e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 88
Mean −8.747
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.1431
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

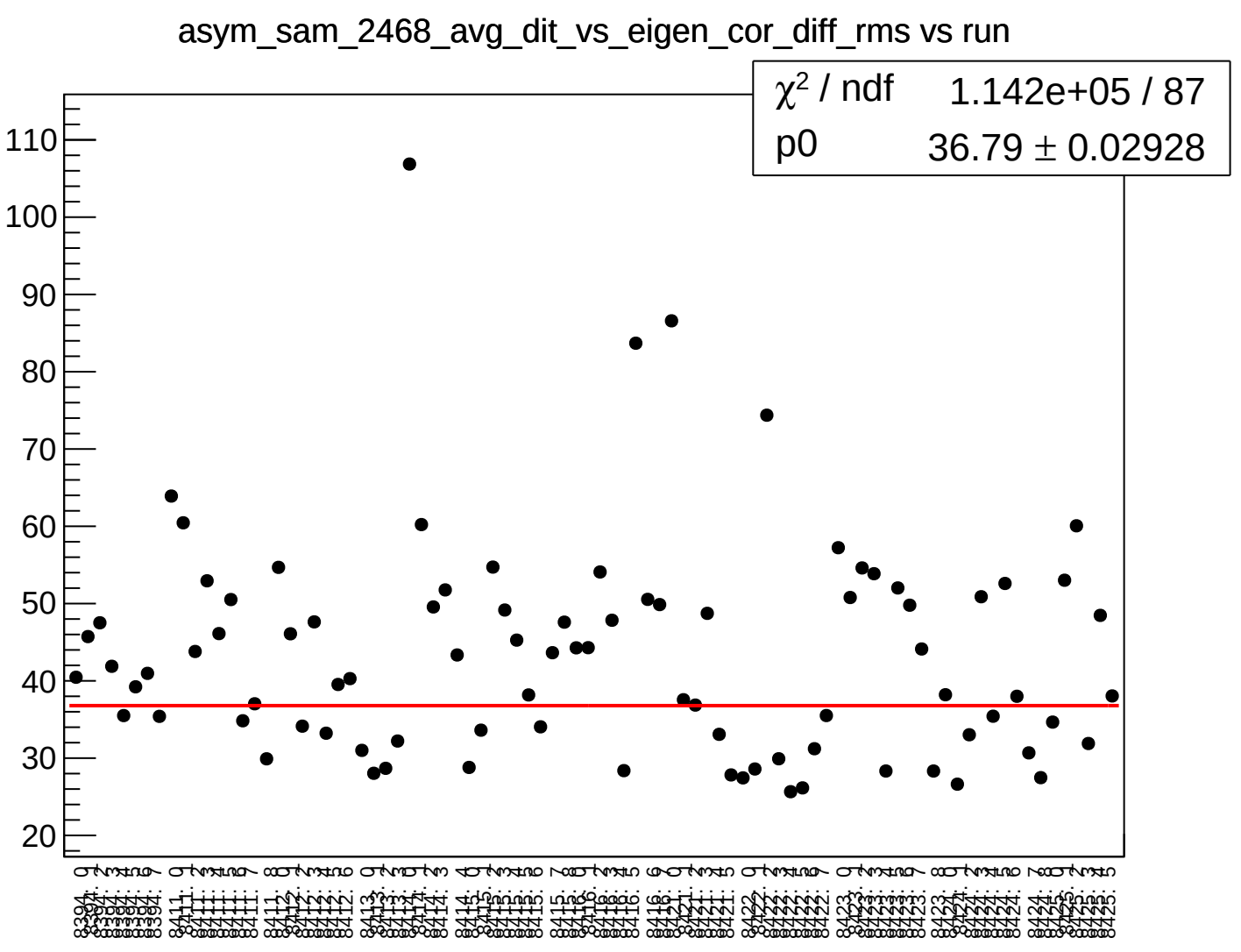

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.081e+06 / 87
p0 1.206e−10 ± 1.541e−13
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

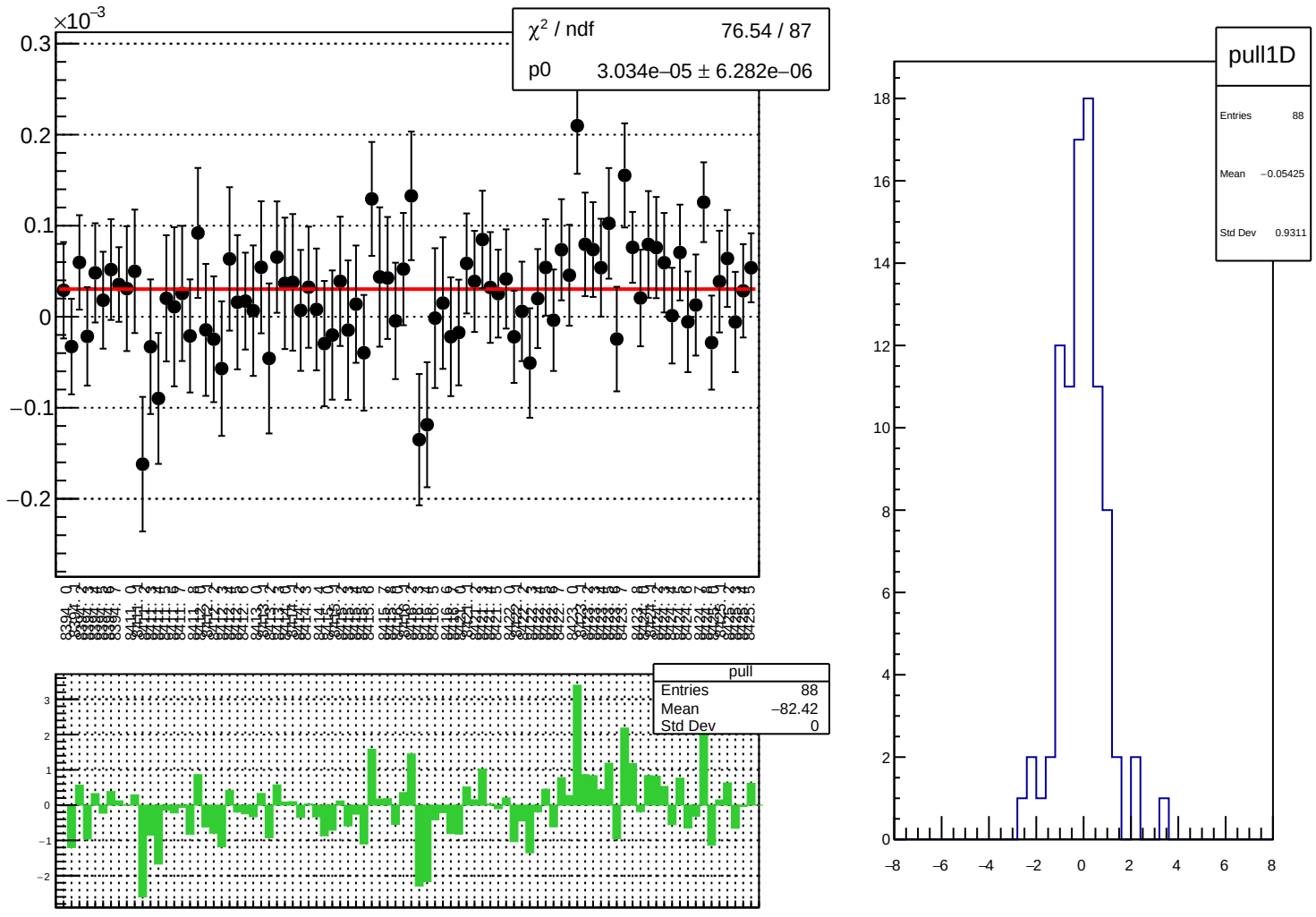

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 105.6 / 87
p0 −0.2286 ± 0.04141
pull
Entries 88
Mean 160.1
Std Dev 0
pull1D
Entries 88
Mean −0.04867
Std Dev 1.094

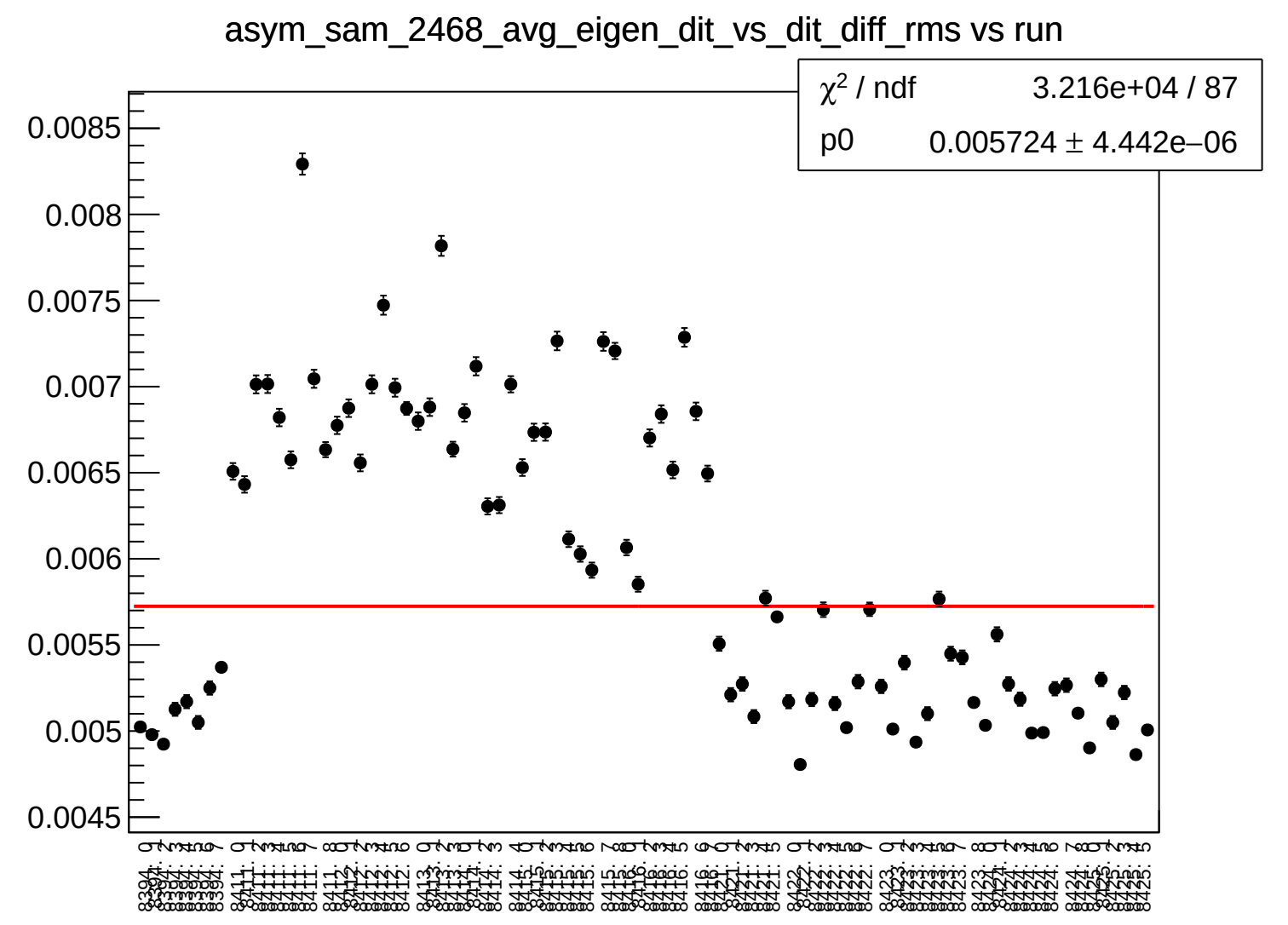

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.142e+05 / 87
p0 36.79 ± 0.02928
110
100
90
80
70
60
50
40
30
20

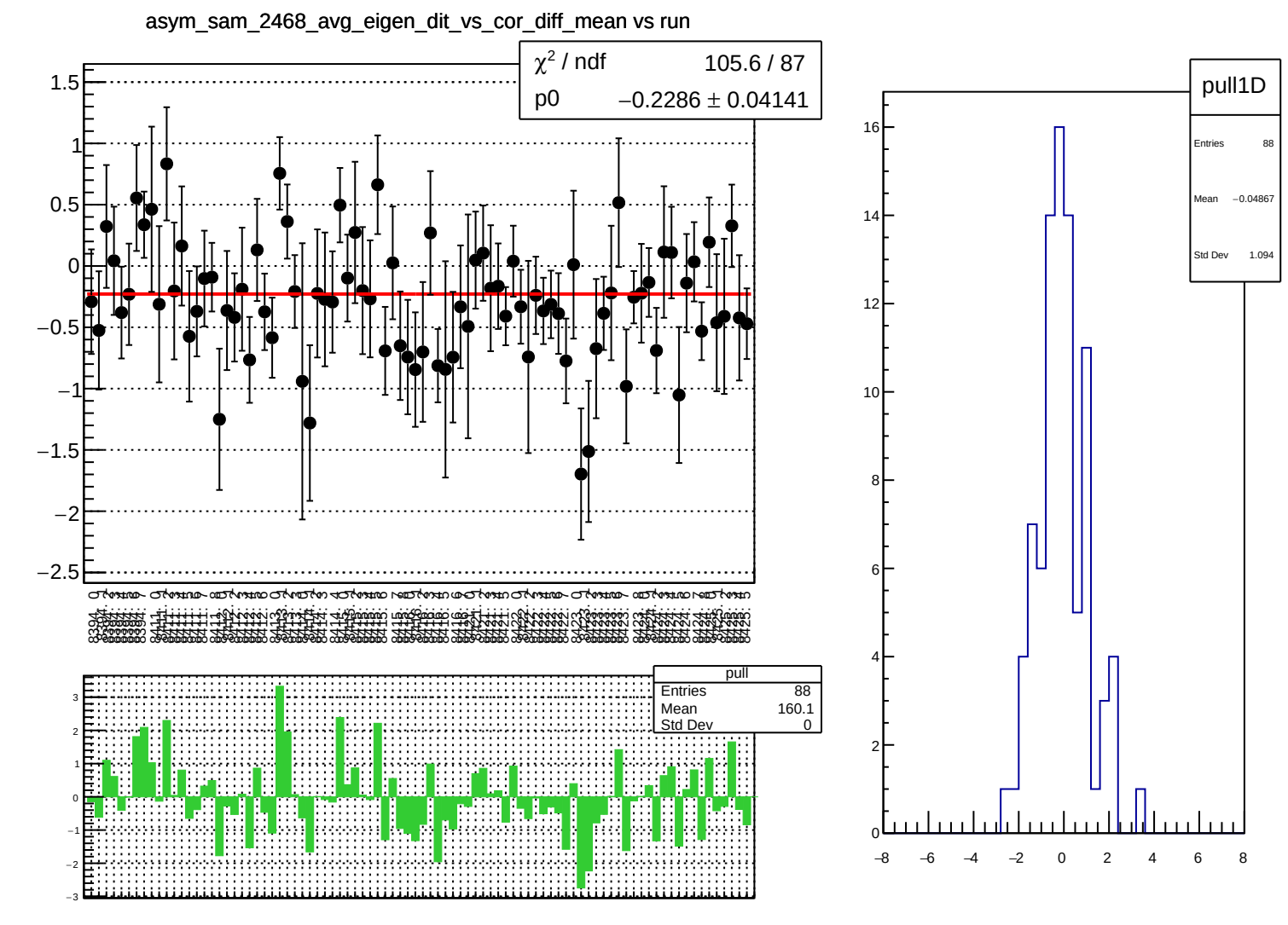

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.6 / 87
p0 −0.2286 ± 0.04141
pull
Entries 88
Mean 160.1
Std Dev 0

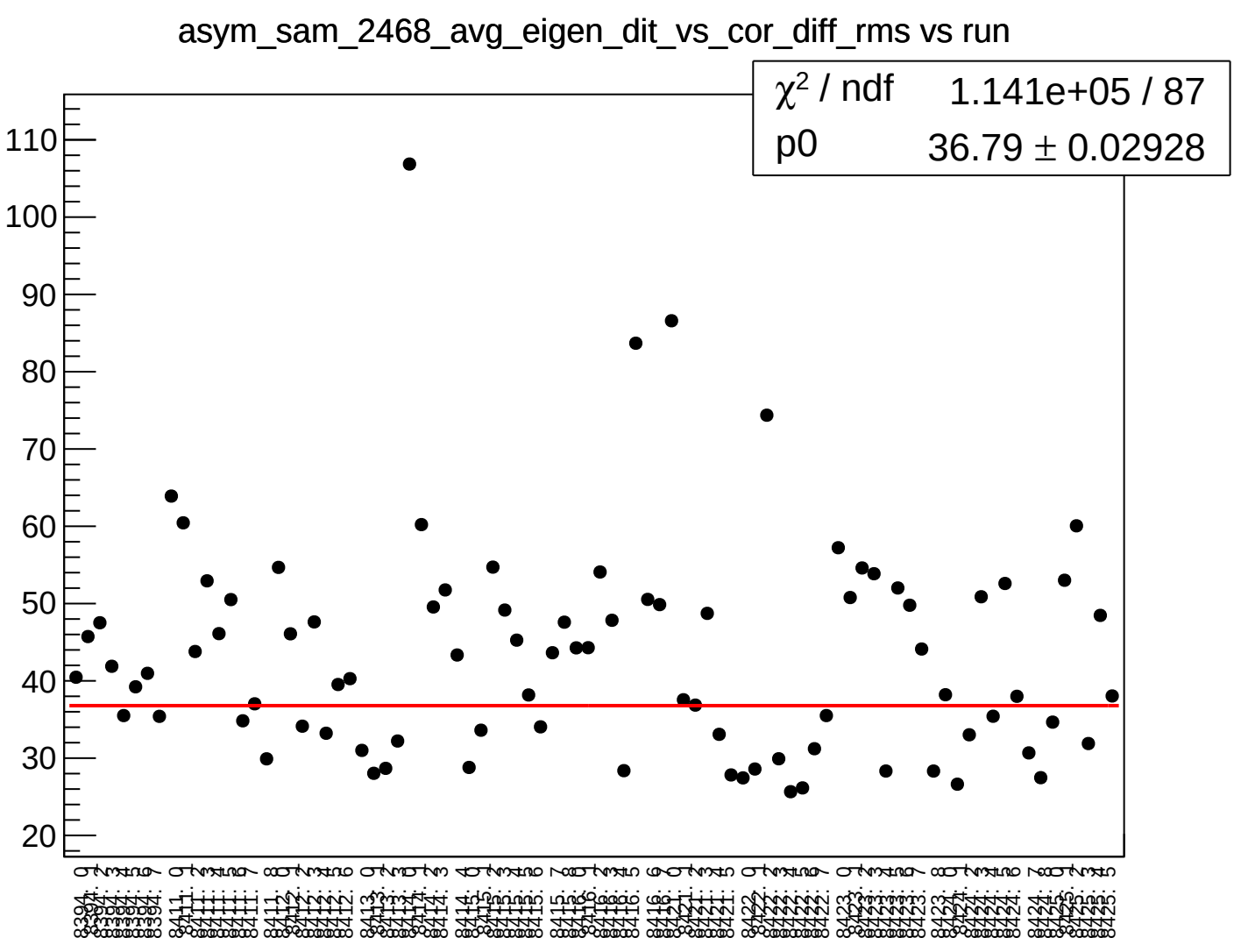

pull1D
Entries 88
Mean −0.04867
Std Dev 1.094

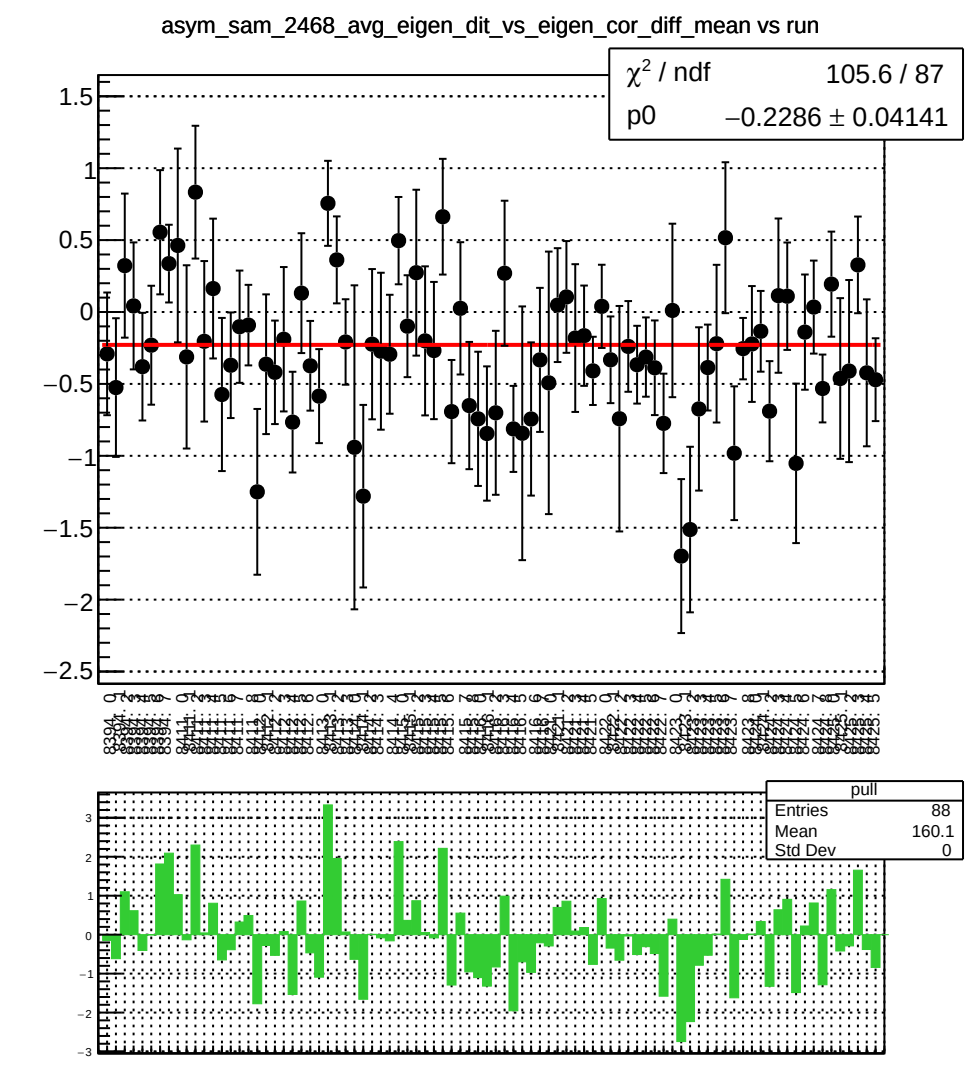

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.142e+05 / 87
p0 36.79 ± 0.02928
110
100
90
80
70
60
50
40
30
20

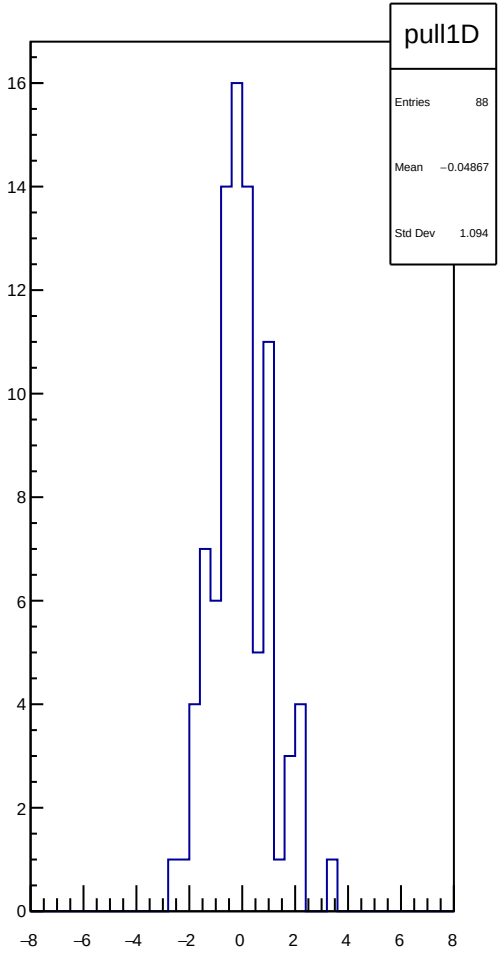

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.54 / 87
p0 3.034e−05 ± 6.282e−06
pull
Entries 88
Mean −82.42
Std Dev 0
pull1D
Entries 88
Mean −0.05425
Std Dev 0.9311

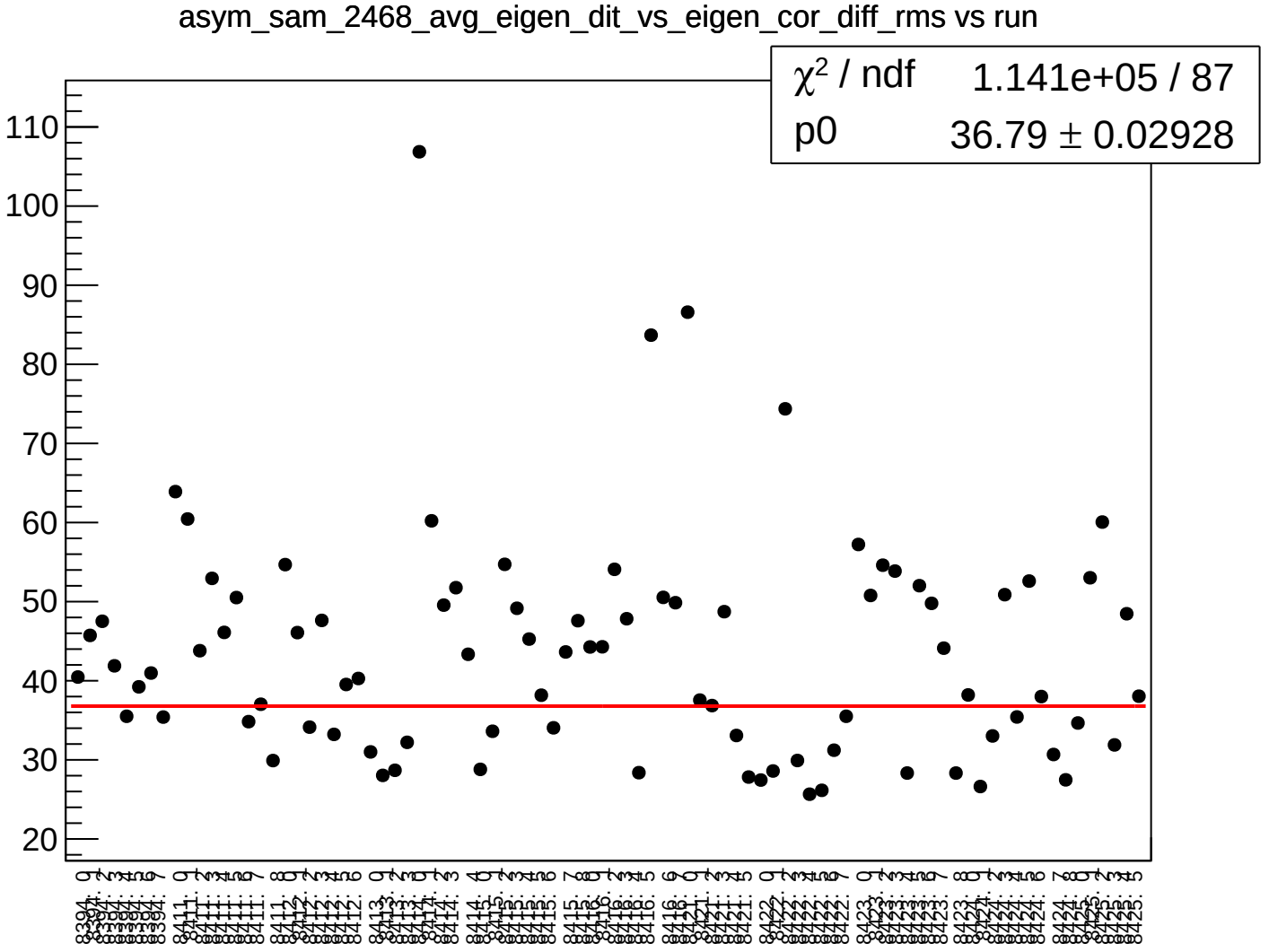

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.216e+04 / 87
p0 0.005724 ± 4.442e−06
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045

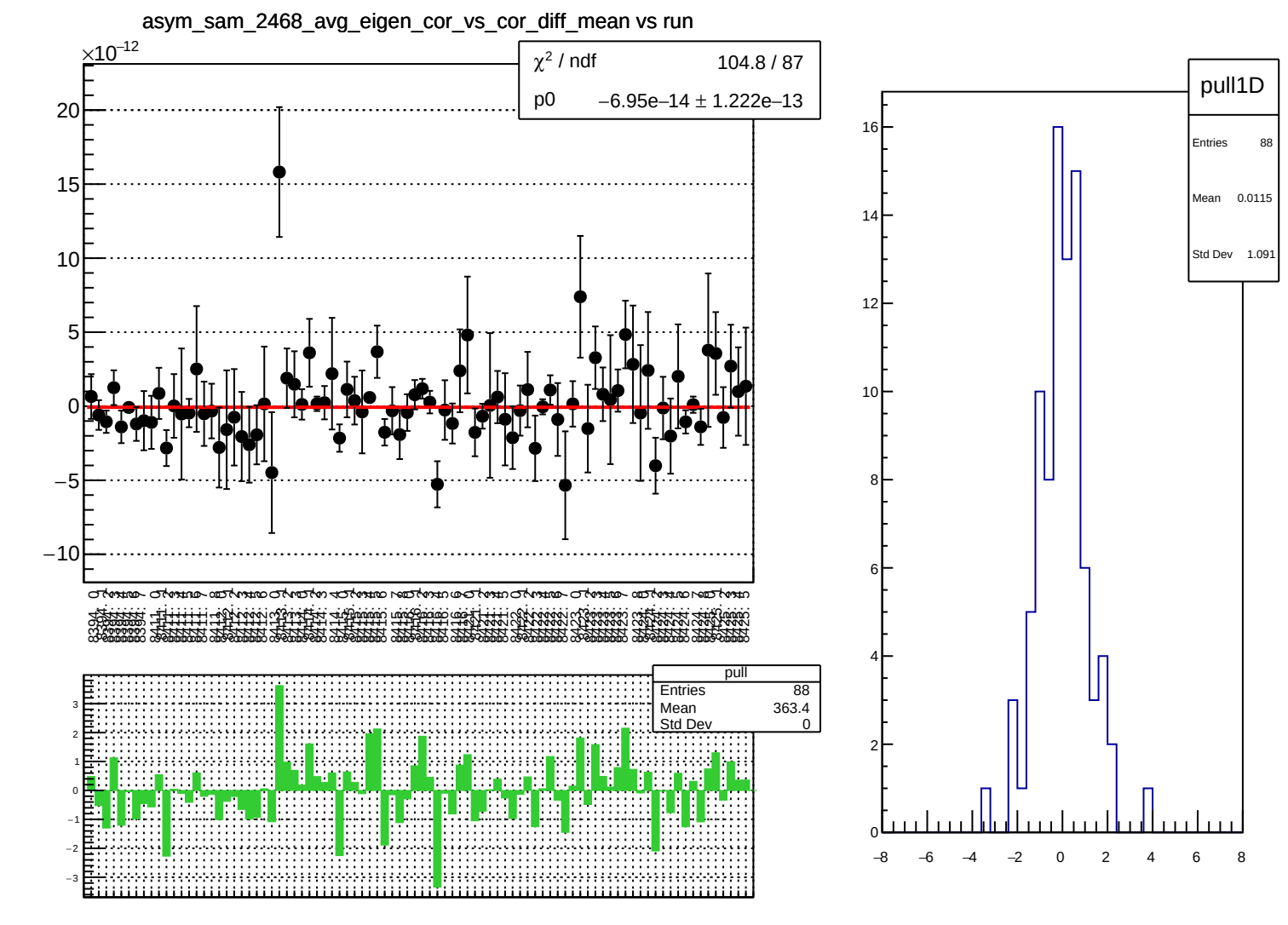

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.6 / 87
p0 −0.2286 ± 0.04141
pull
Entries 88
Mean 160.1
Std Dev 0
pull1D
Entries 88
Mean −0.04867
Std Dev 1.094

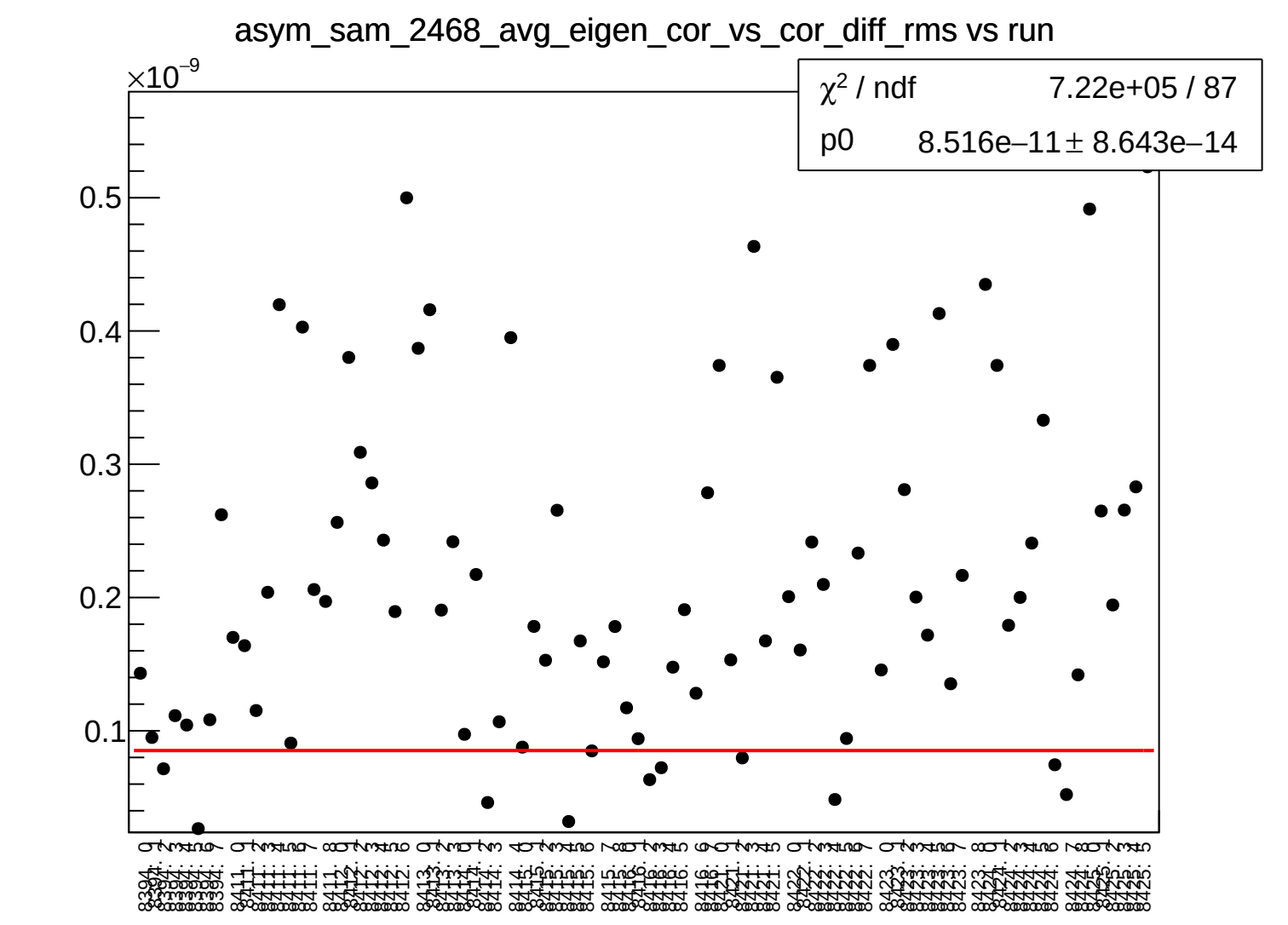

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.141e+05 / 87
p0 36.79 ± 0.02928
110
100
90
80
70
60
50
40
30
20

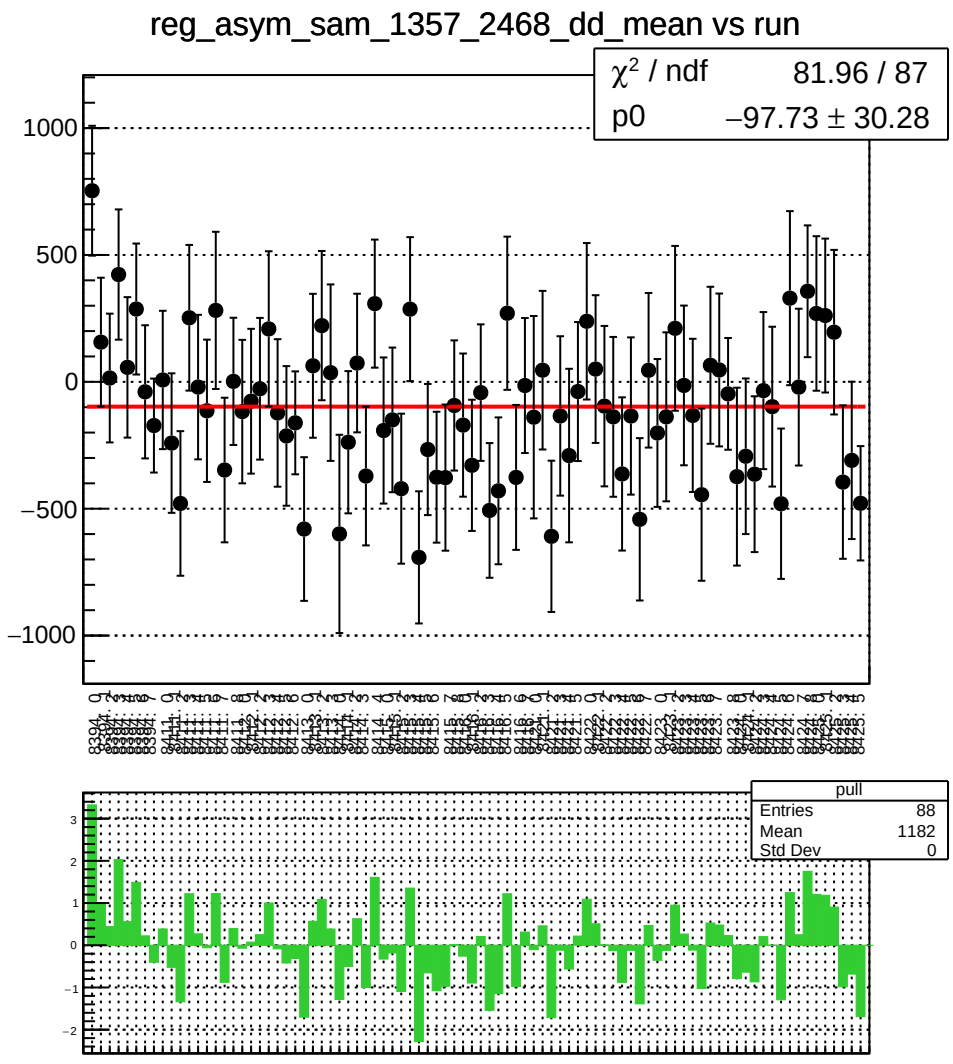

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.6 / 87
p0 −0.2286 ± 0.04141
pull
Entries 88
Mean 160.1
Std Dev 0

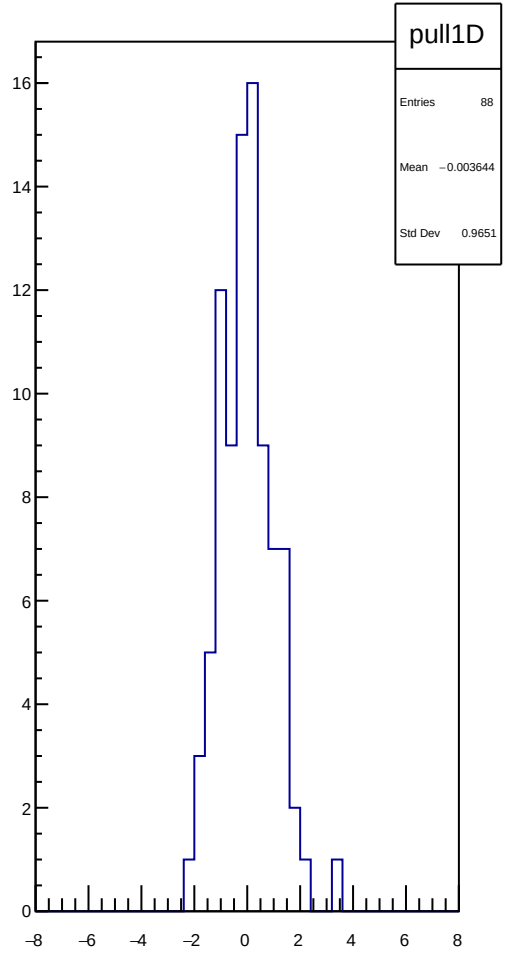

pull1D
Entries 88
Mean −0.04867
Std Dev 1.094

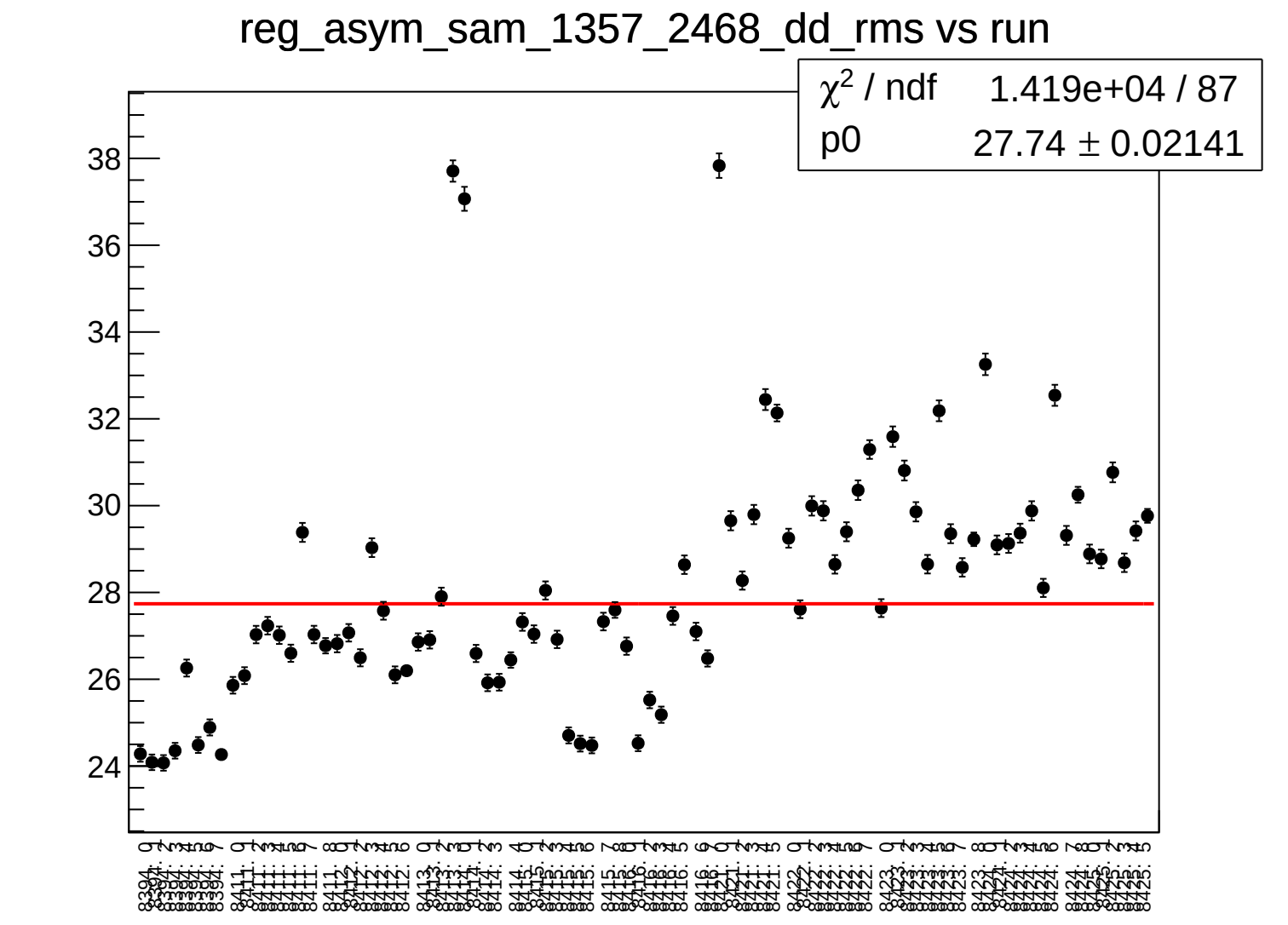

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.141e+05 / 87
p0 36.79 ± 0.02928
110
100
90
80
70
60
50
40
30
20

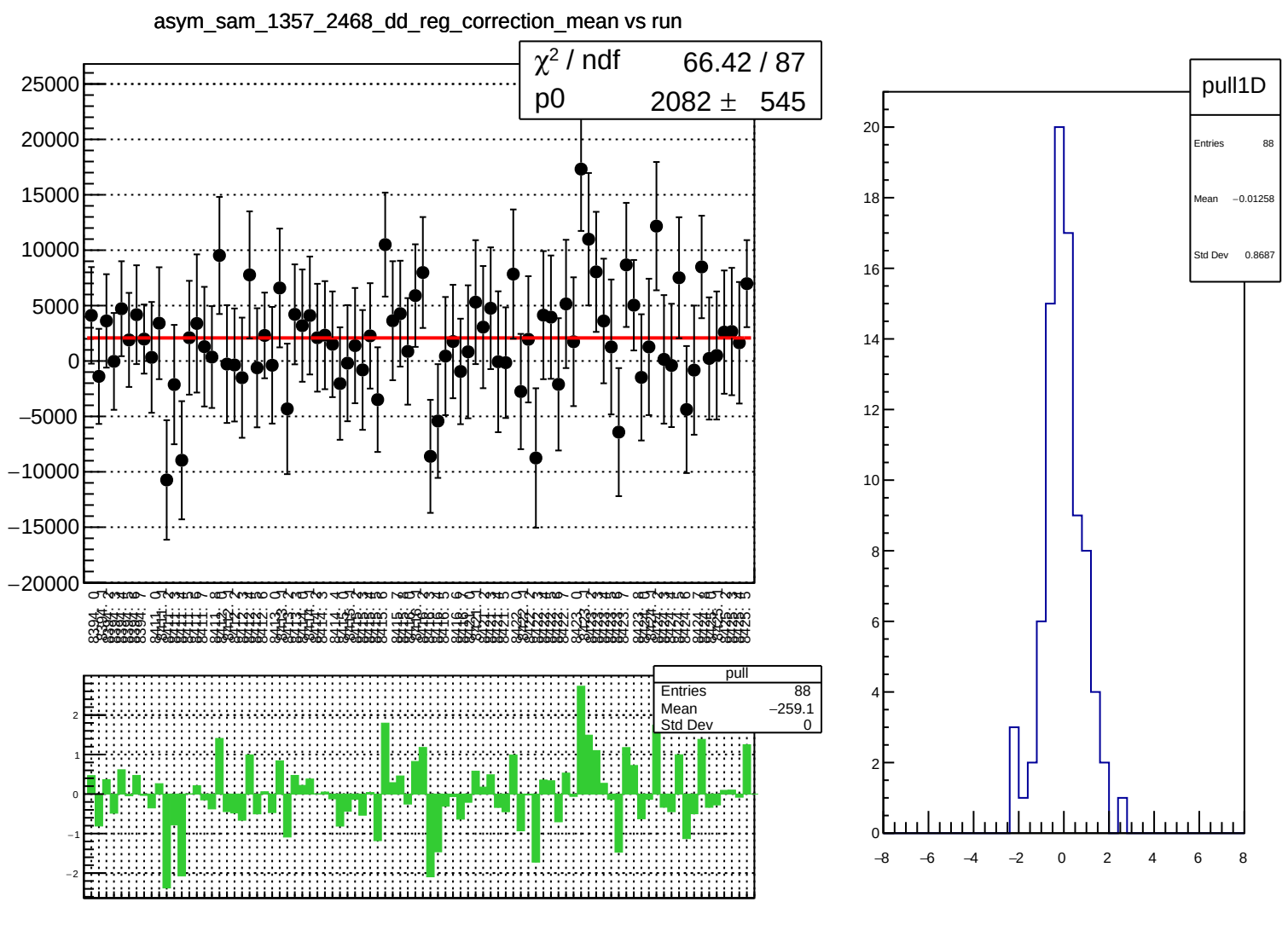

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104.8 / 87
p0 −6.95e−14 ± 1.222e−13
pull
Entries 88
Mean 363.4
Std Dev 0
pull1D
Entries 88
Mean 0.0115
Std Dev 1.091

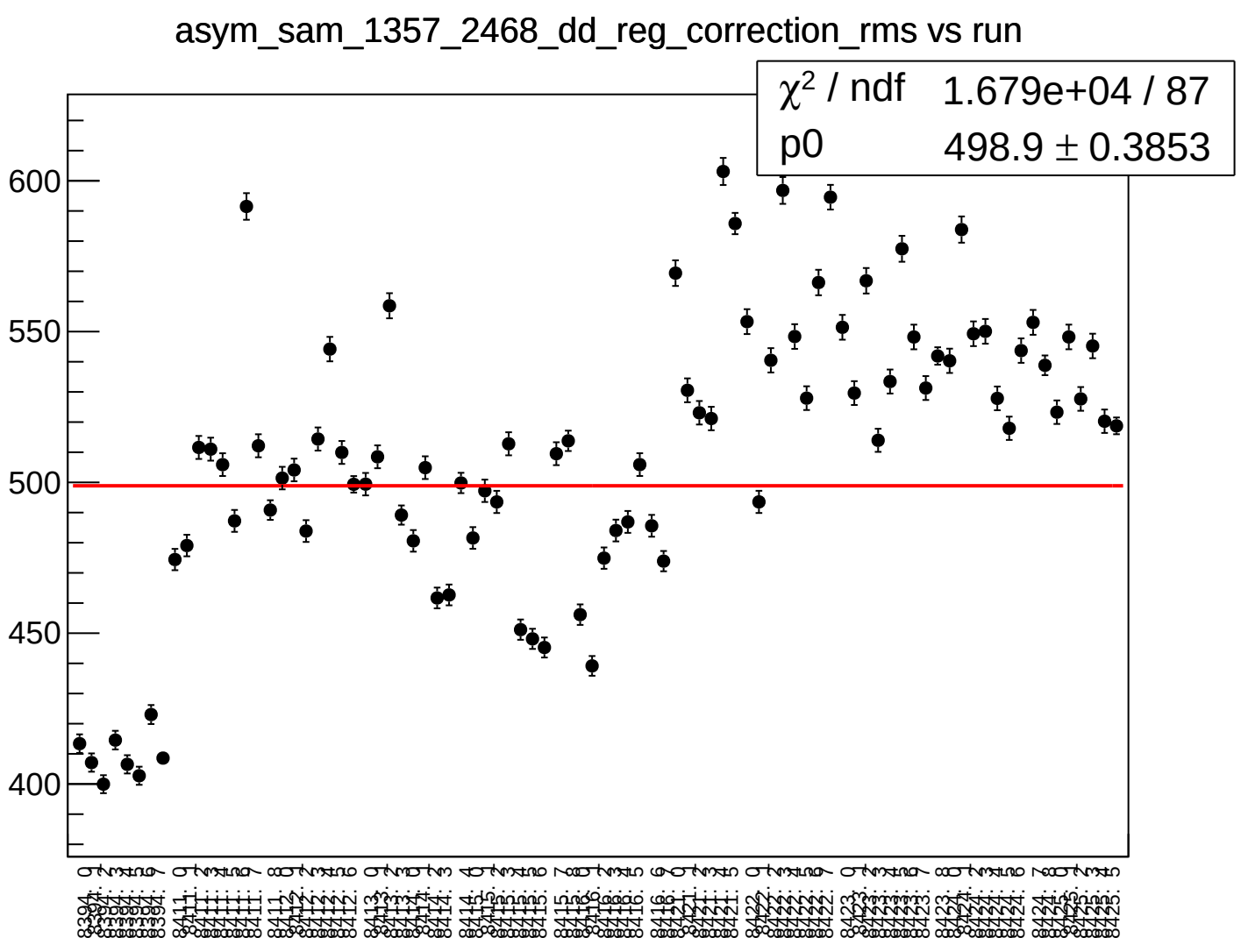

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.22e+05 / 87
p0 8.516e−11 ± 8.643e−14
0.5
0.4
0.3
0.2
0.1

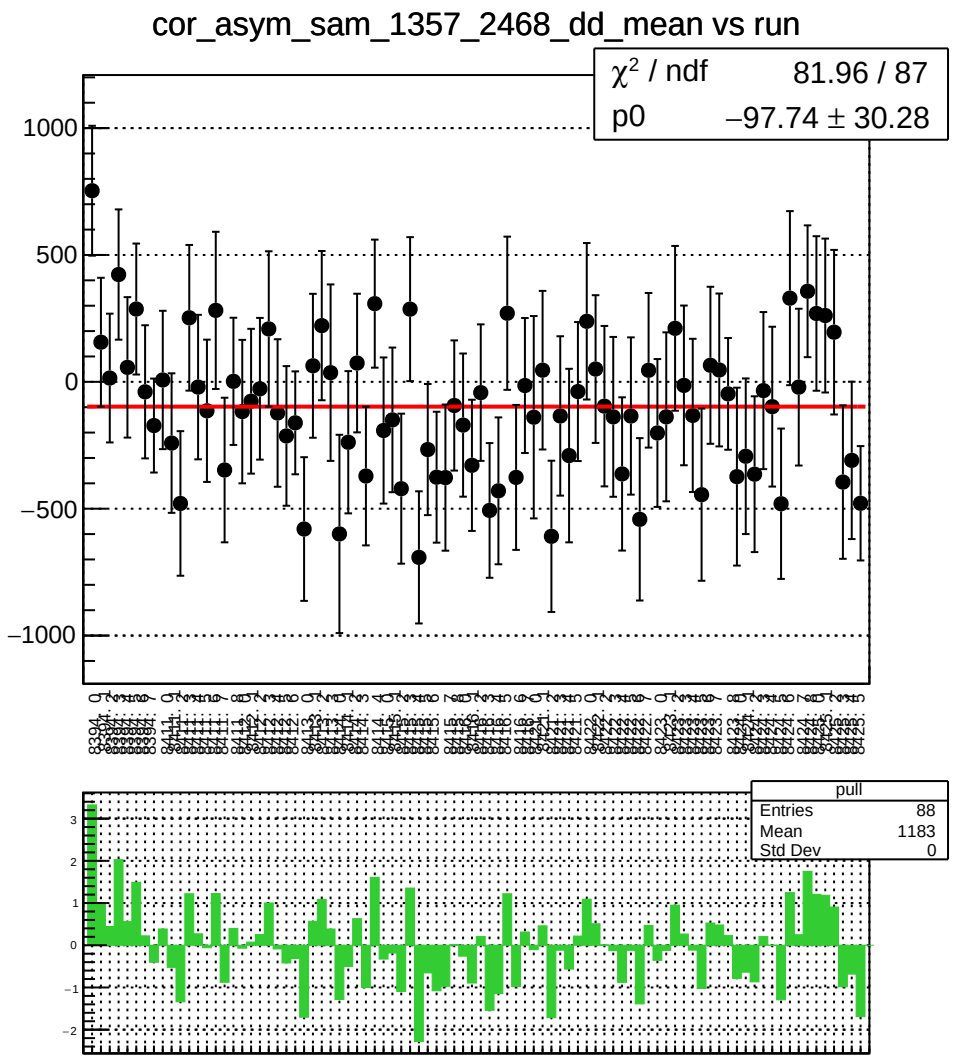

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 81.96 / 87
p0 −97.73 ± 30.28
1000
500
0
−500
−1000
pull
Entries 88
Mean 1182
Std Dev 0
3
2
1
0
−1
−2

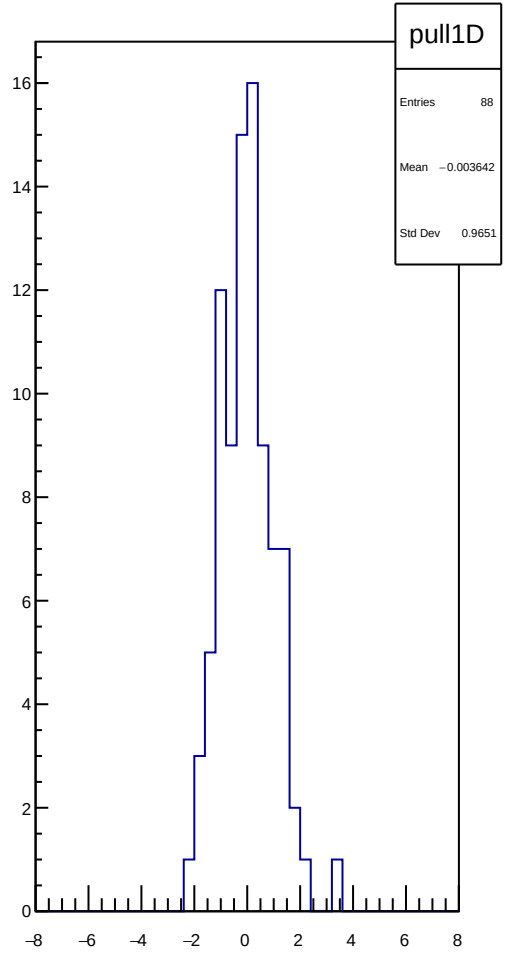

pull1D
Entries 88
Mean −0.003644
Std Dev 0.9651
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

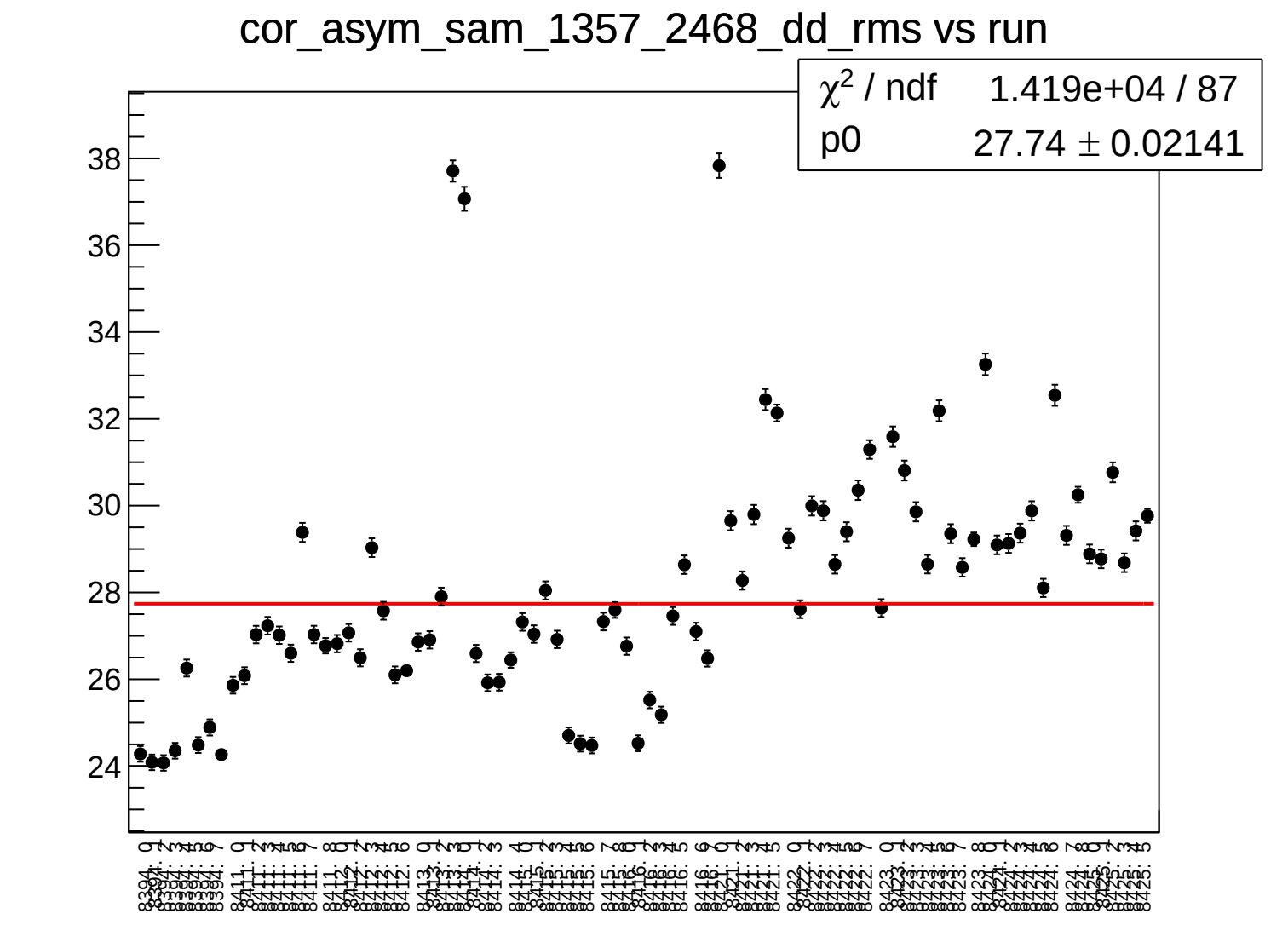

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.419e+04 / 87
p0 27.74 ± 0.02141
38
36
34
32
30
28
26
24

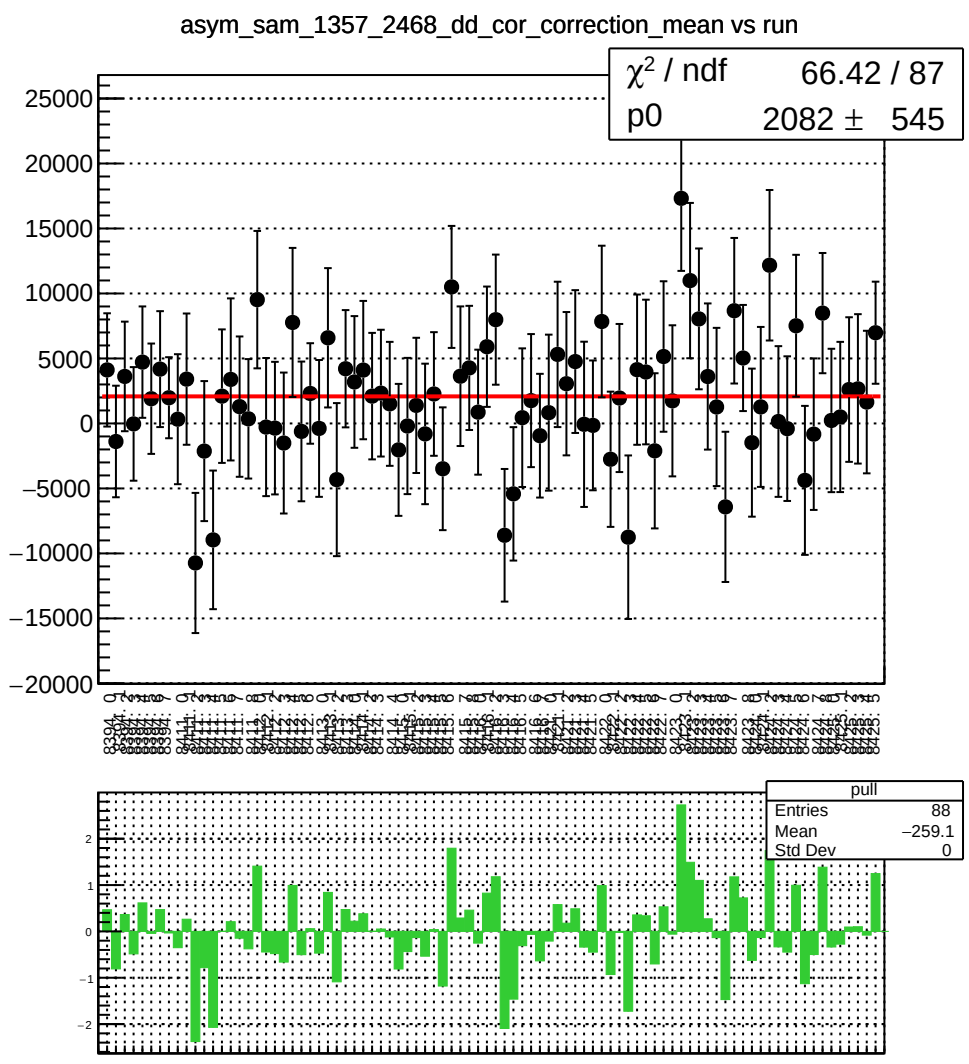

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 66.42 / 87
p0 2082 ± 545
pull
Entries 88
Mean −259.1
Std Dev 0
pull1D
Entries 88
Mean −0.01258
Std Dev 0.8687

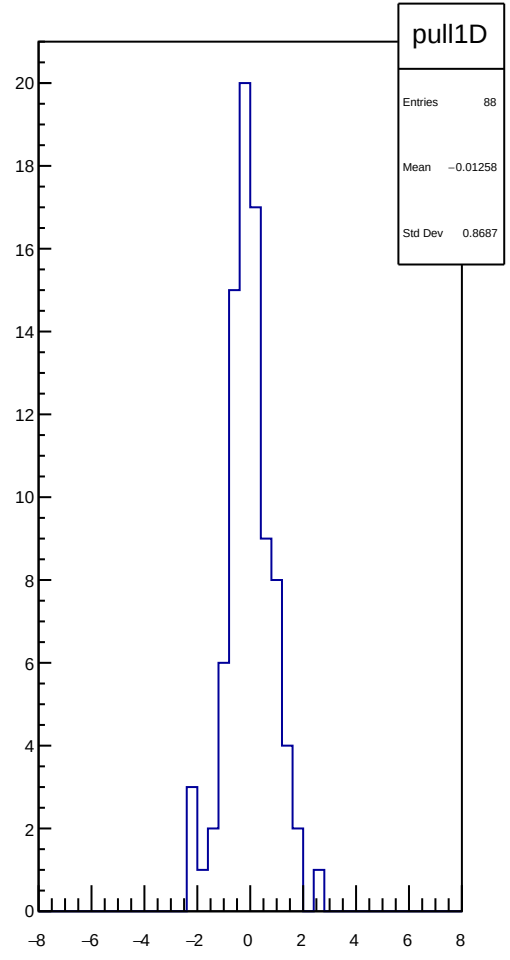

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 1.679e+04 / 87
p0 498.9 ± 0.3853
600
550
500
450
400

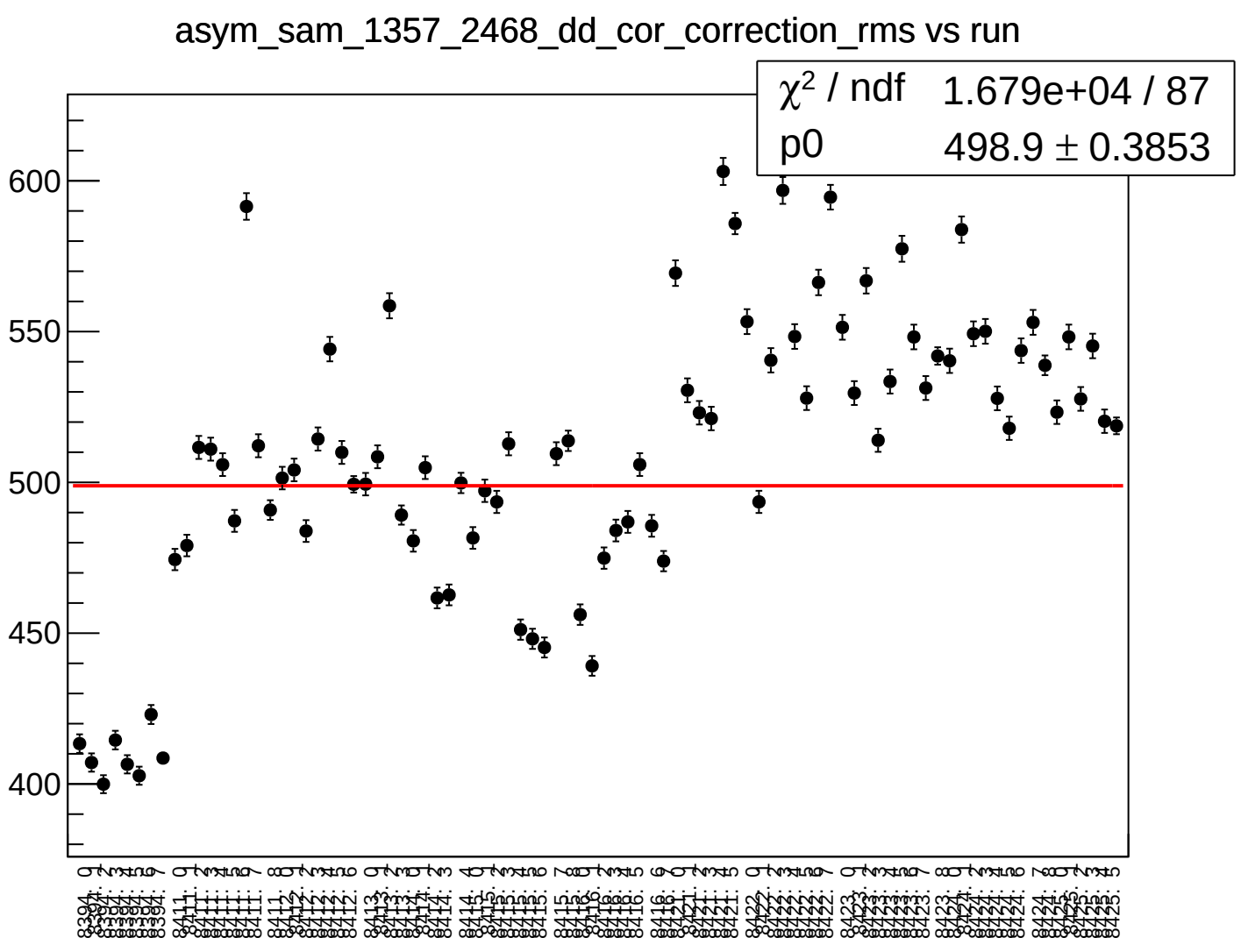

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 81.96 / 87
p0 −97.74 ± 30.28
1000
500
0
−500
−1000
pull
Entries 88
Mean 1183
Std Dev 0
3
2
1
0
−1
−2

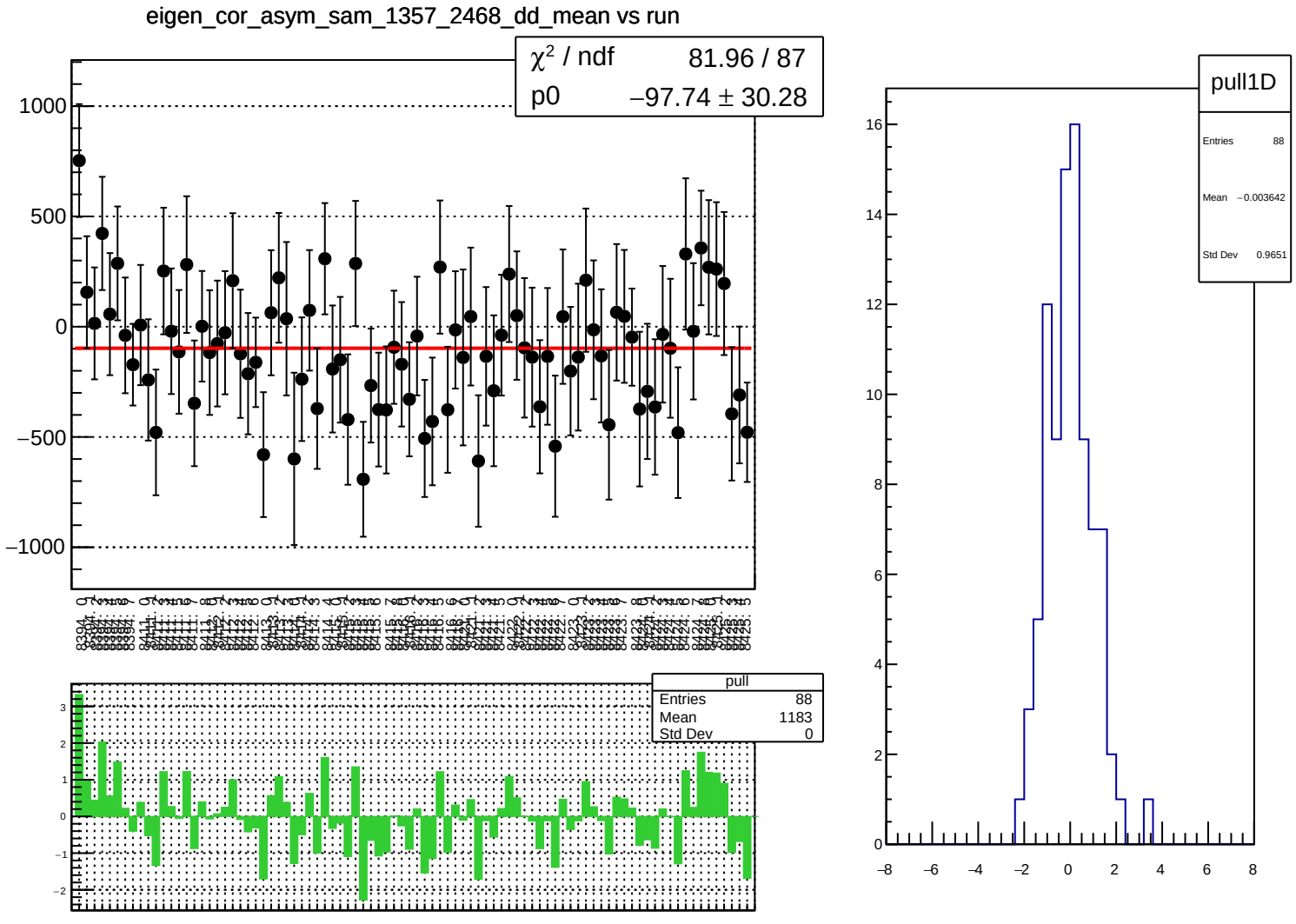

pull1D
Entries 88
Mean −0.003642
Std Dev 0.9651
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

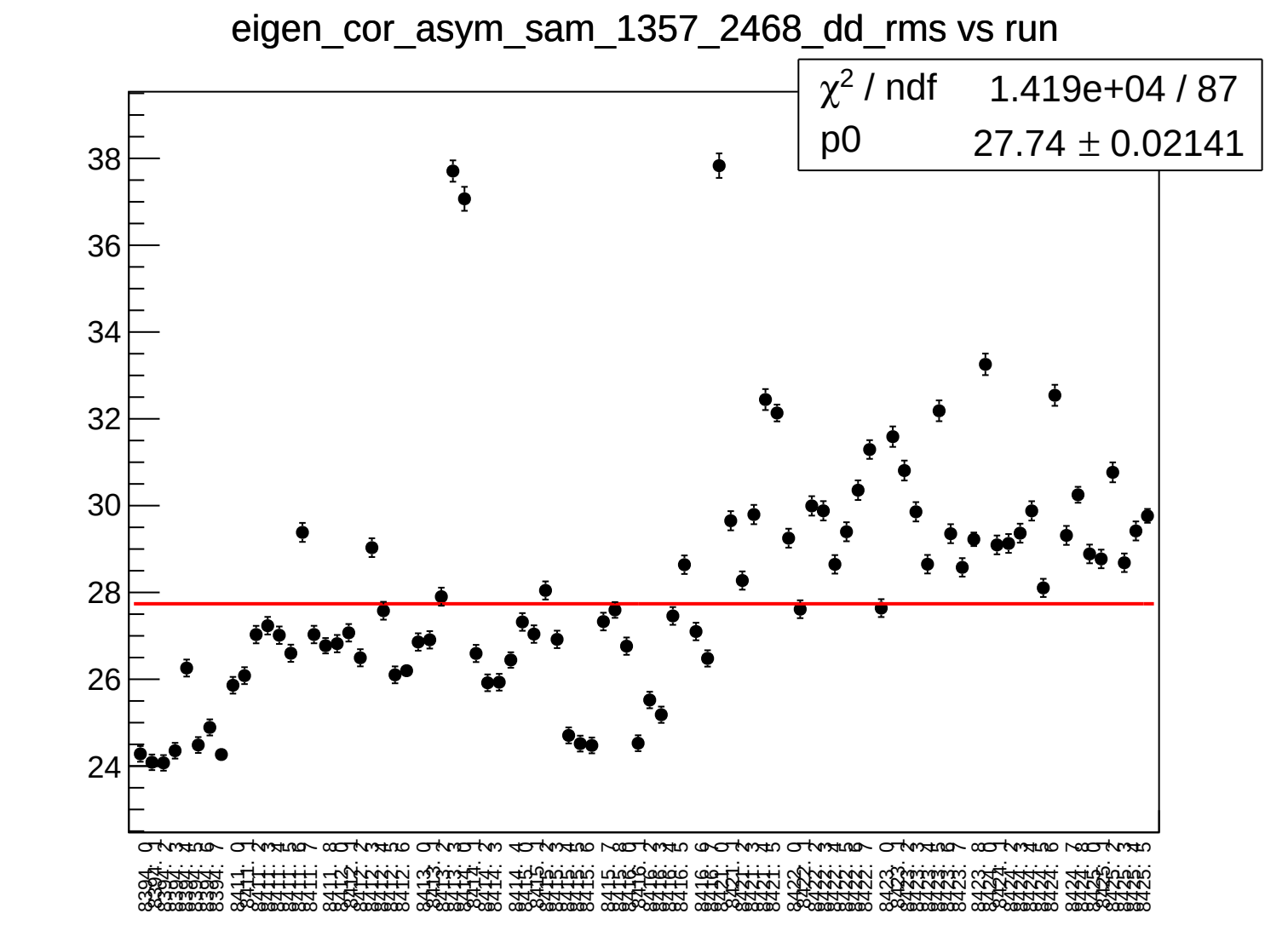

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.419e+04 / 87
p0 27.74 ± 0.02141
38
36
34
32
30
28
26
24

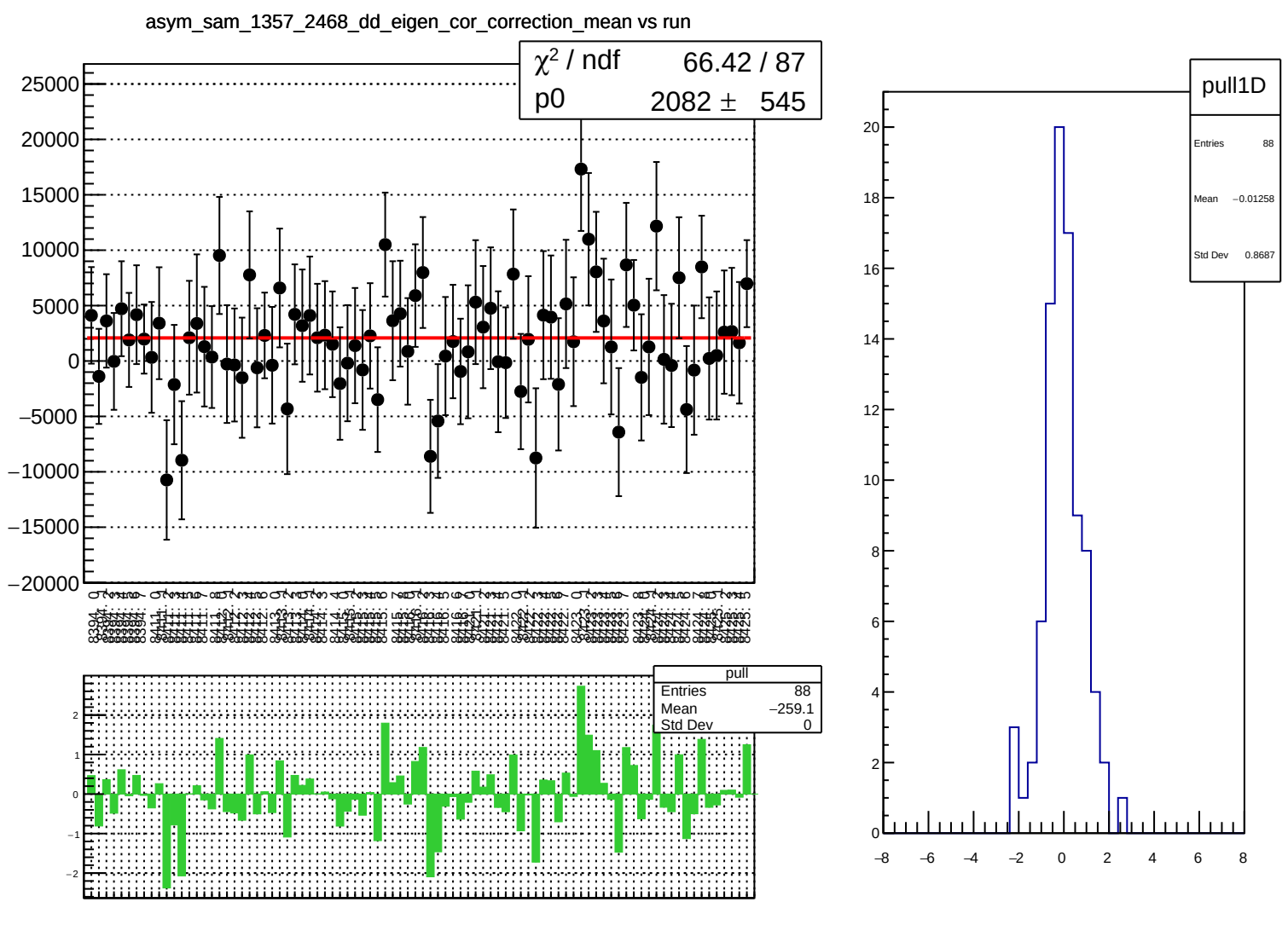

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 66.42 / 87
p0 2082 ± 545
pull
Entries 88
Mean −259.1
Std Dev 0

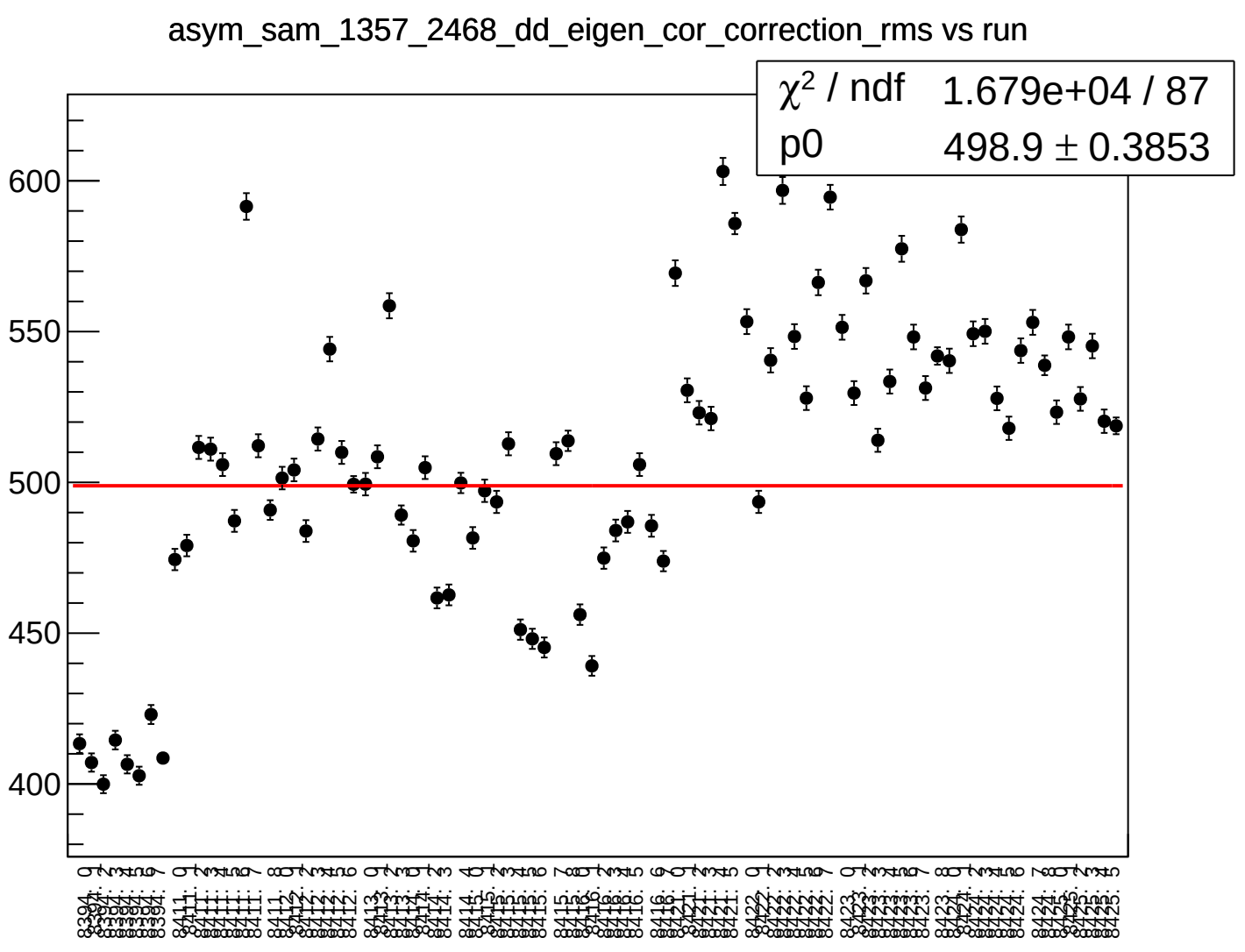

pull1D
Entries 88
Mean −0.01258
Std Dev 0.8687

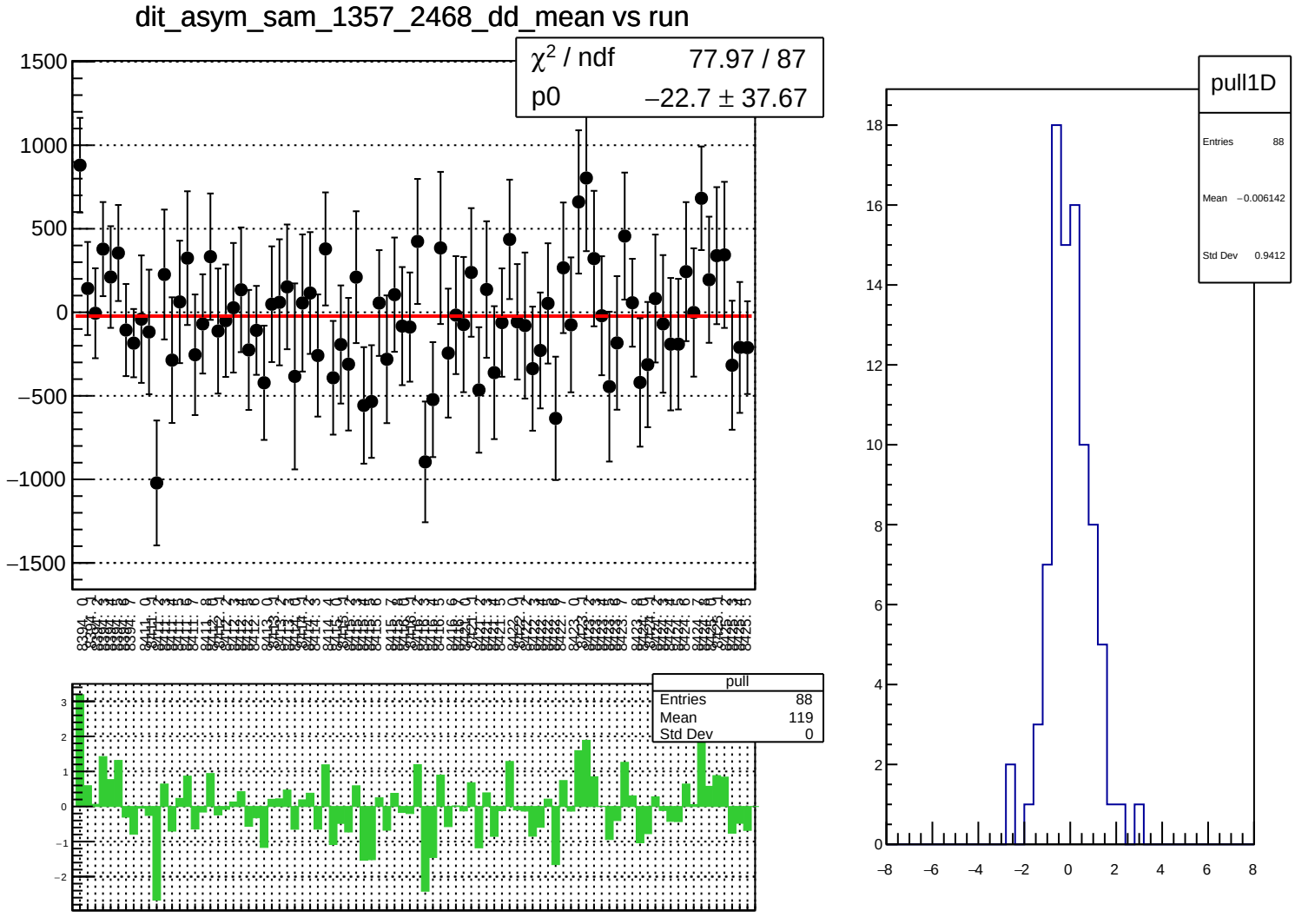

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 1.679e+04 / 87
p0 498.9 ± 0.3853
600
550
500
450
400

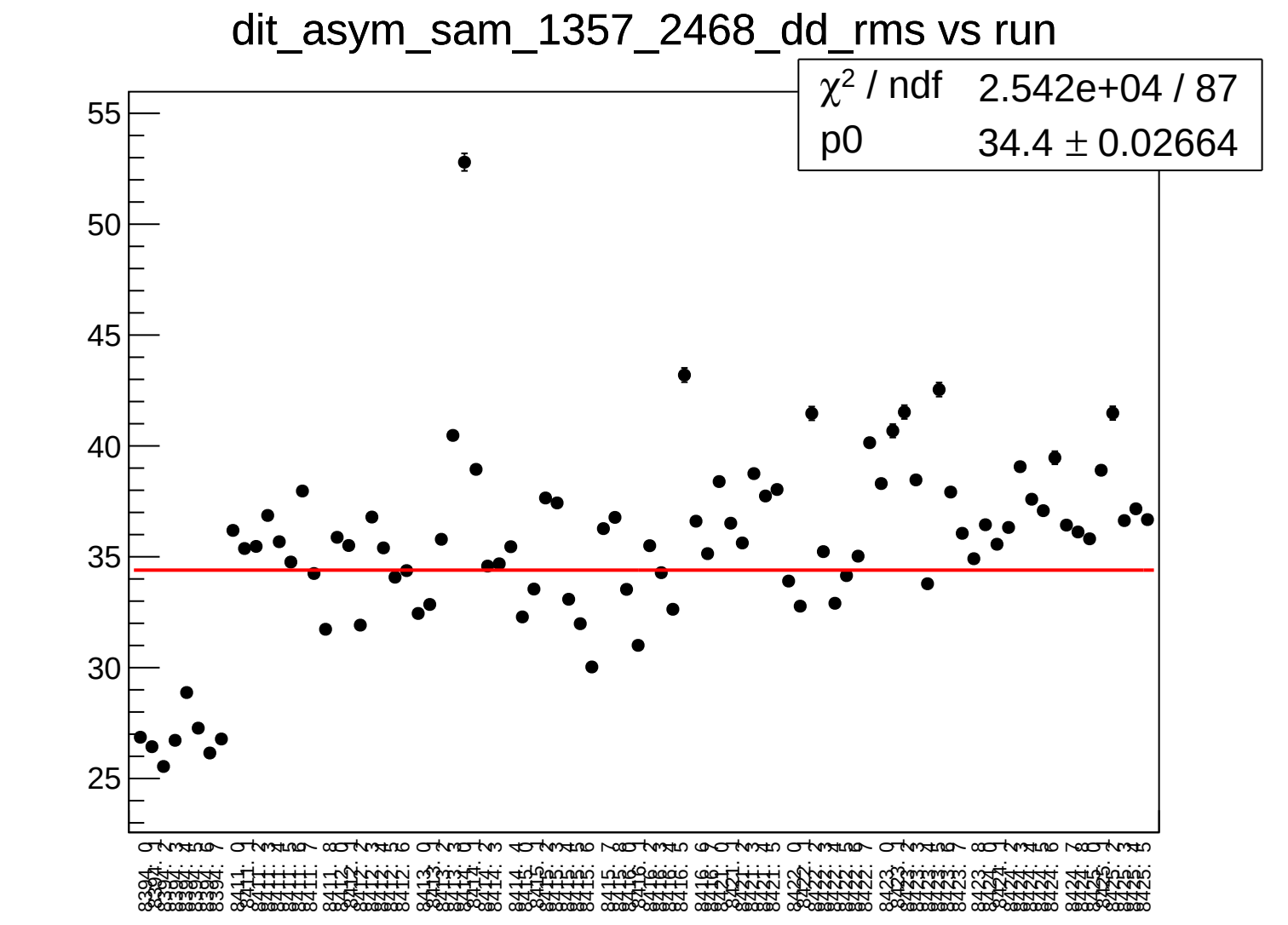

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 81.96 / 87
p0 −97.74 ± 30.28
1000
500
0
−500
−1000
pull
Entries 88
Mean 1183
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.003642
Std Dev 0.9651
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

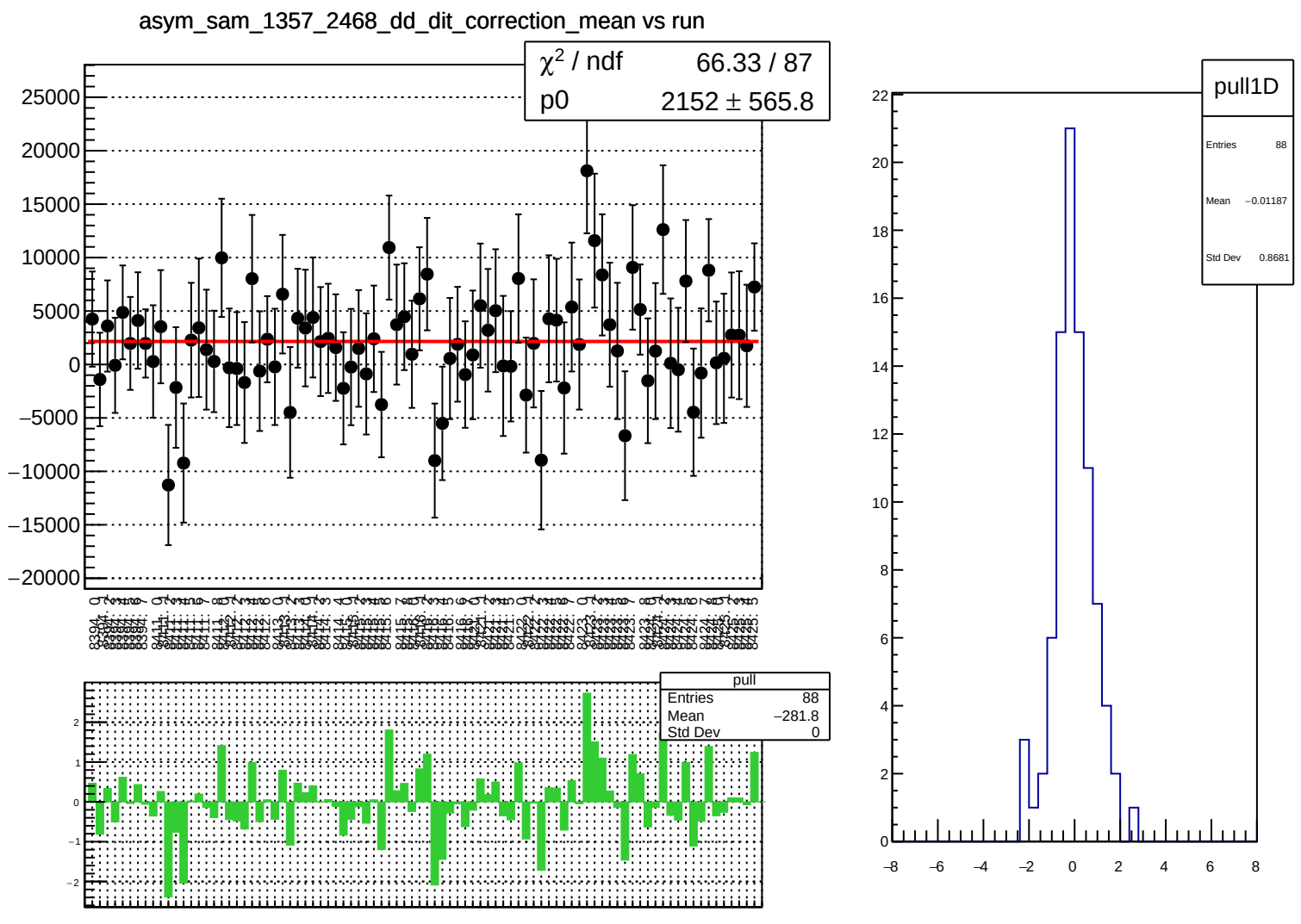

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.419e+04 / 87
p0 27.74 ± 0.02141
38
36
34
32
30
28
26
24

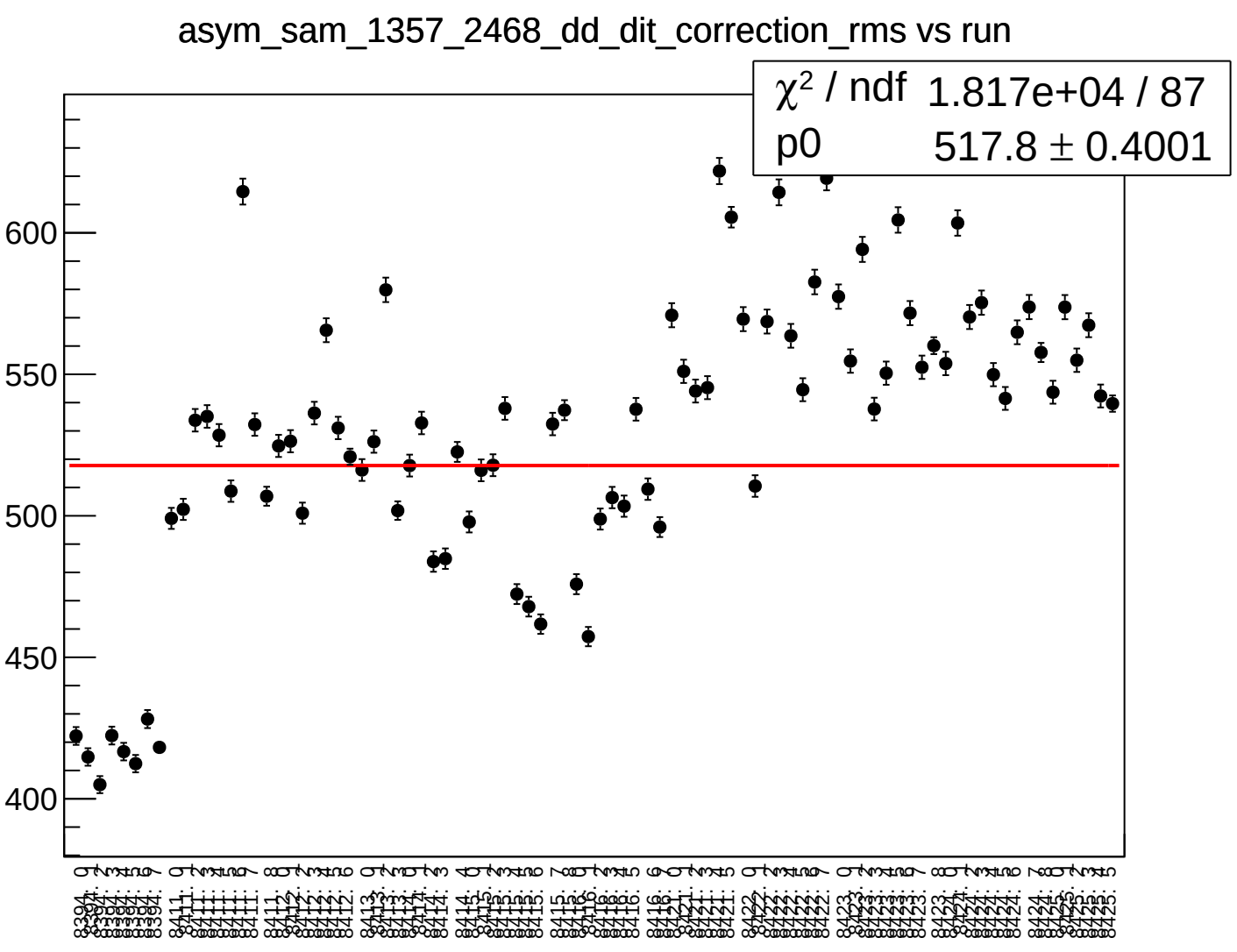

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 66.42 / 87
p0 2082 ± 545
pull
Entries 88
Mean −259.1
Std Dev 0
pull1D
Entries 88
Mean −0.01258
Std Dev 0.8687

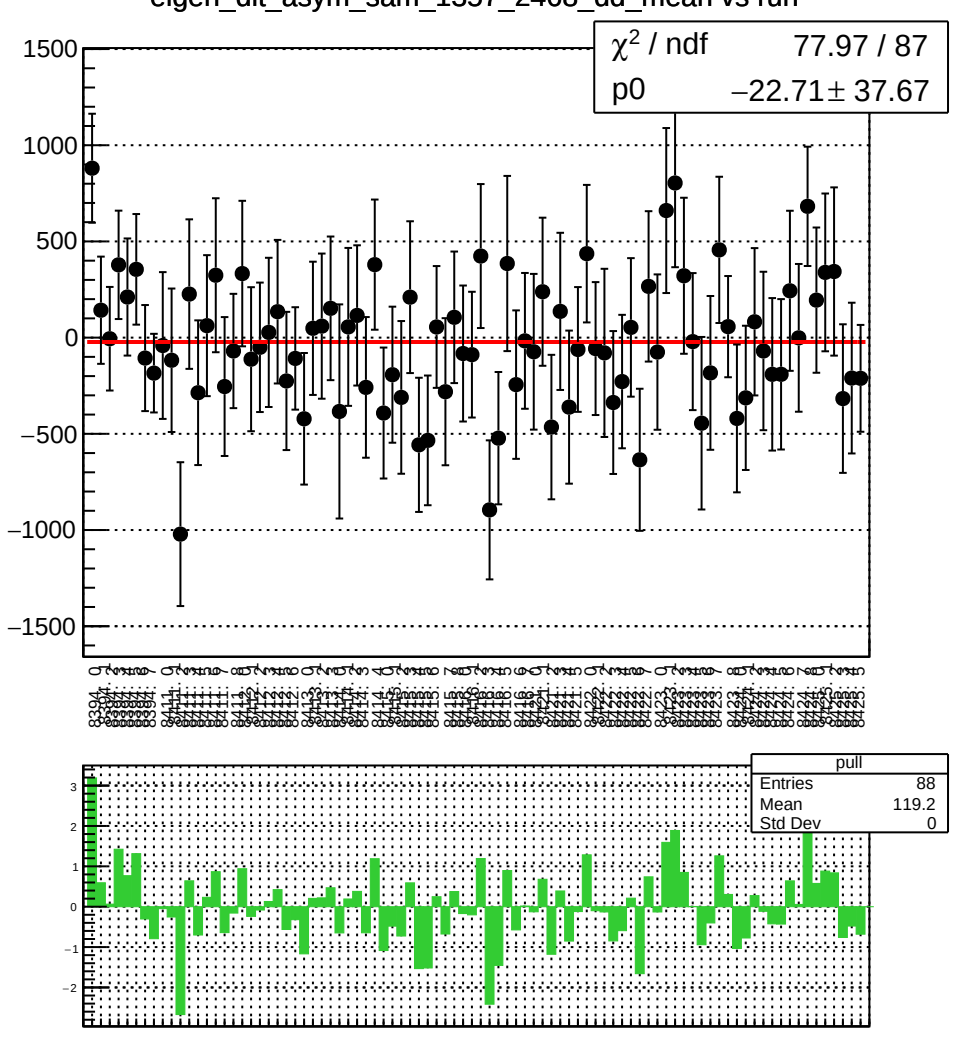

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.679e+04 / 87
p0 498.9 ± 0.3853
600
550
500
450
400

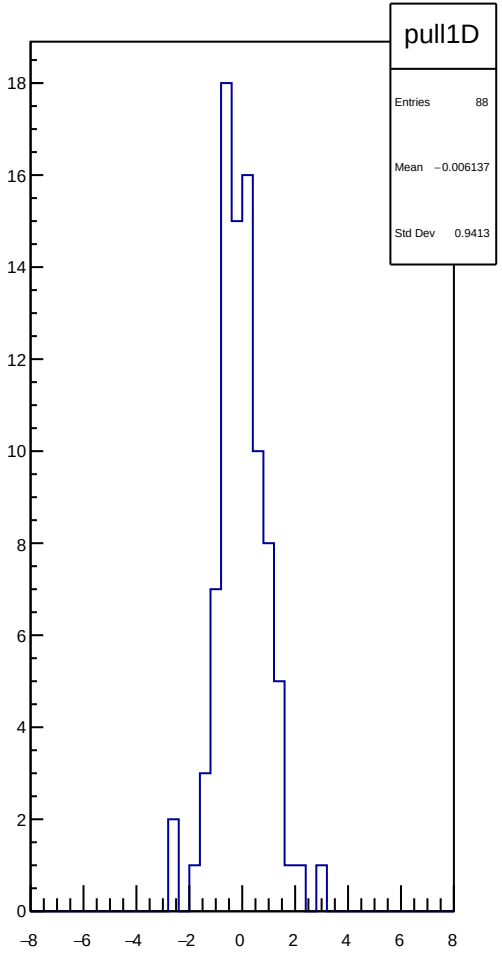

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 77.97 / 87
p0 −22.7 ± 37.67
1500
1000
500
0
−500
−1000
−1500
pull
Entries 88
Mean 119
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.006142
Std Dev 0.9412
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

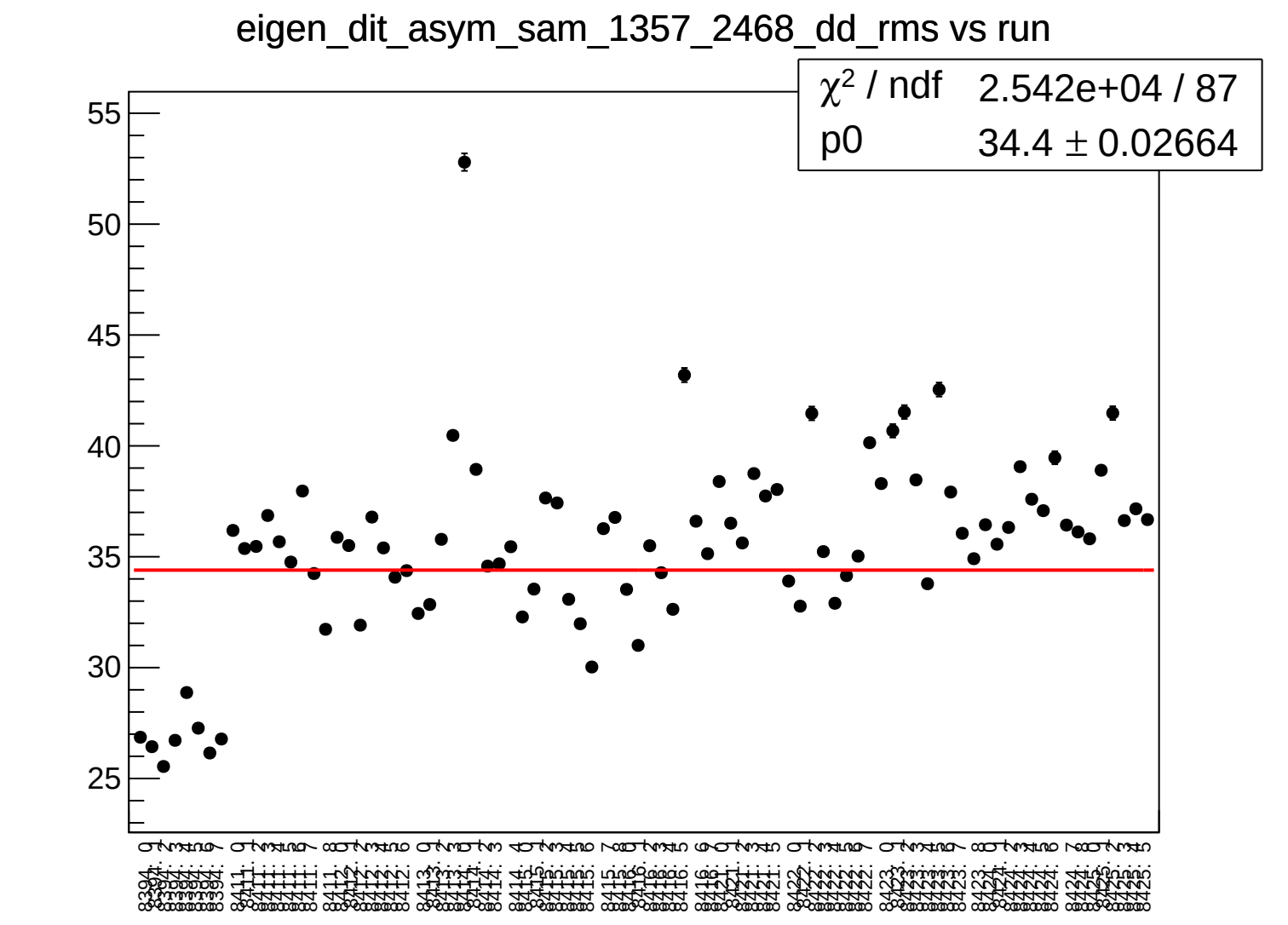

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.542e+04 / 87
p0 34.4 ± 0.02664
55
50
45
40
35
30
25

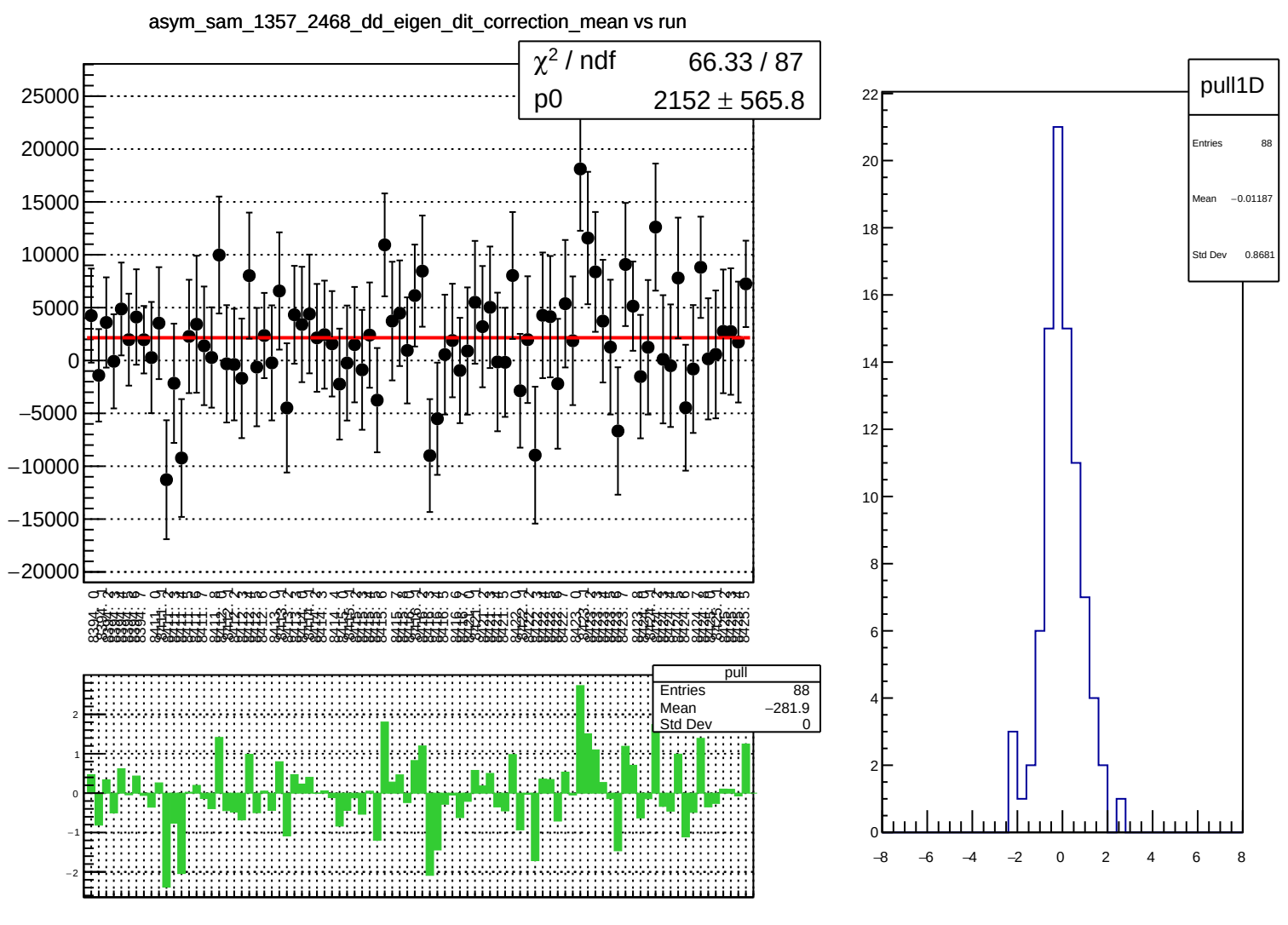

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 66.33 / 87
p0 2152 ± 565.8
pull
Entries 88
Mean −281.8
Std Dev 0
pull1D
Entries 88
Mean −0.01187
Std Dev 0.8681

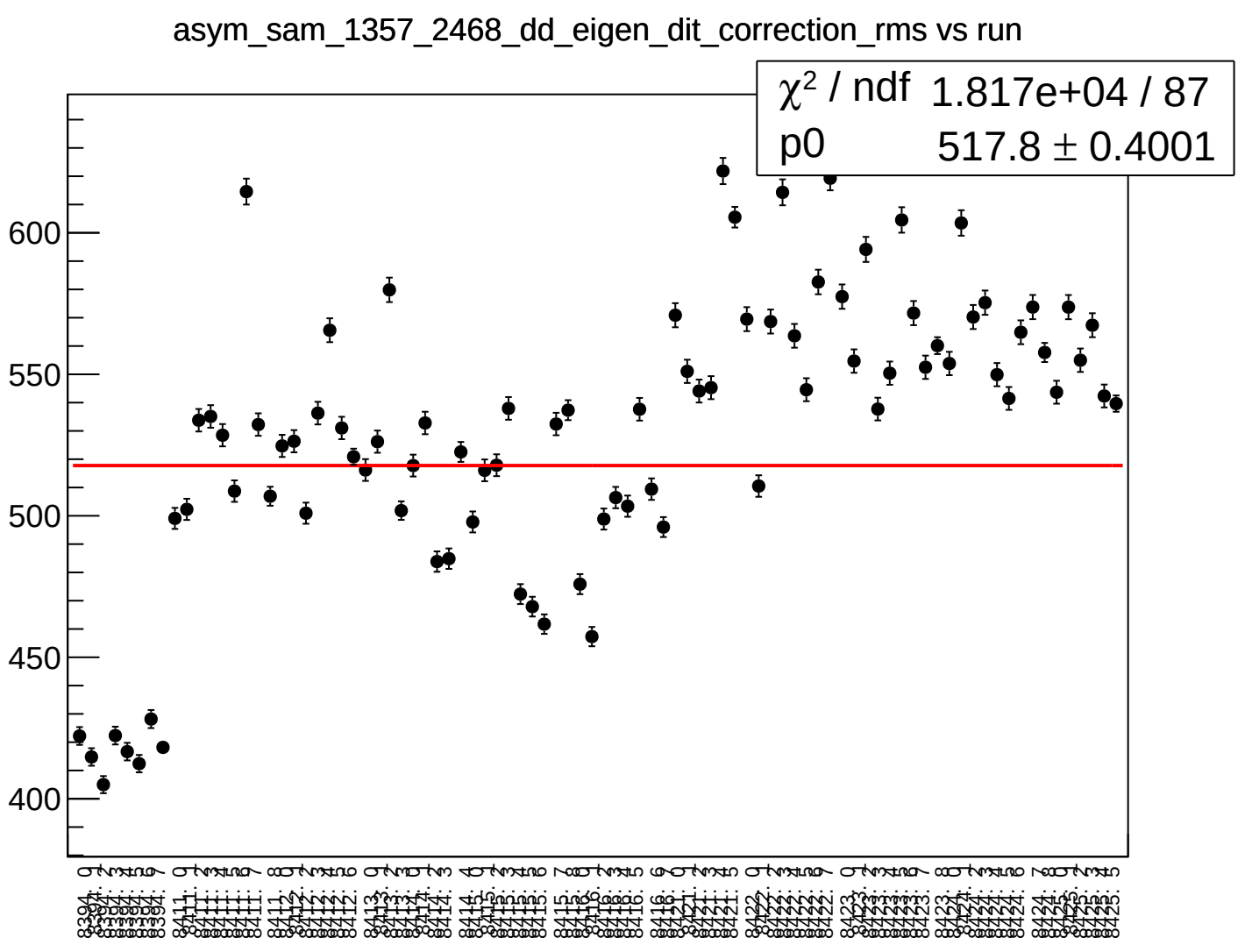

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 1.817e+04 / 87
p0 517.8 ± 0.4001
600
550
500
450
400

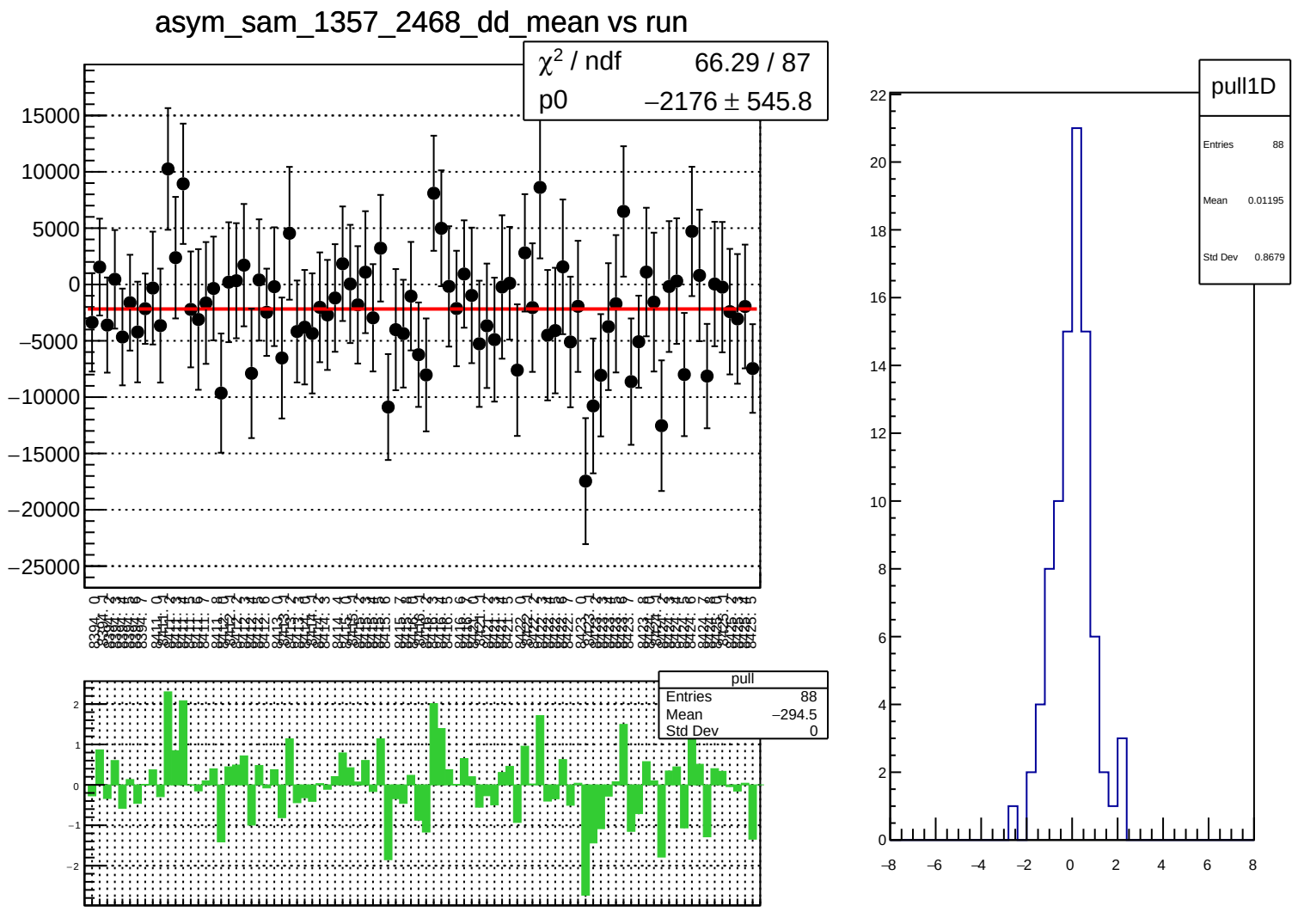

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 77.97 / 87
p0 −22.71 ± 37.67
1500
1000
500
0
−500
−1000
−1500
pull
Entries 88
Mean 119.2
Std Dev 0
3
2
1
0
−1
−2

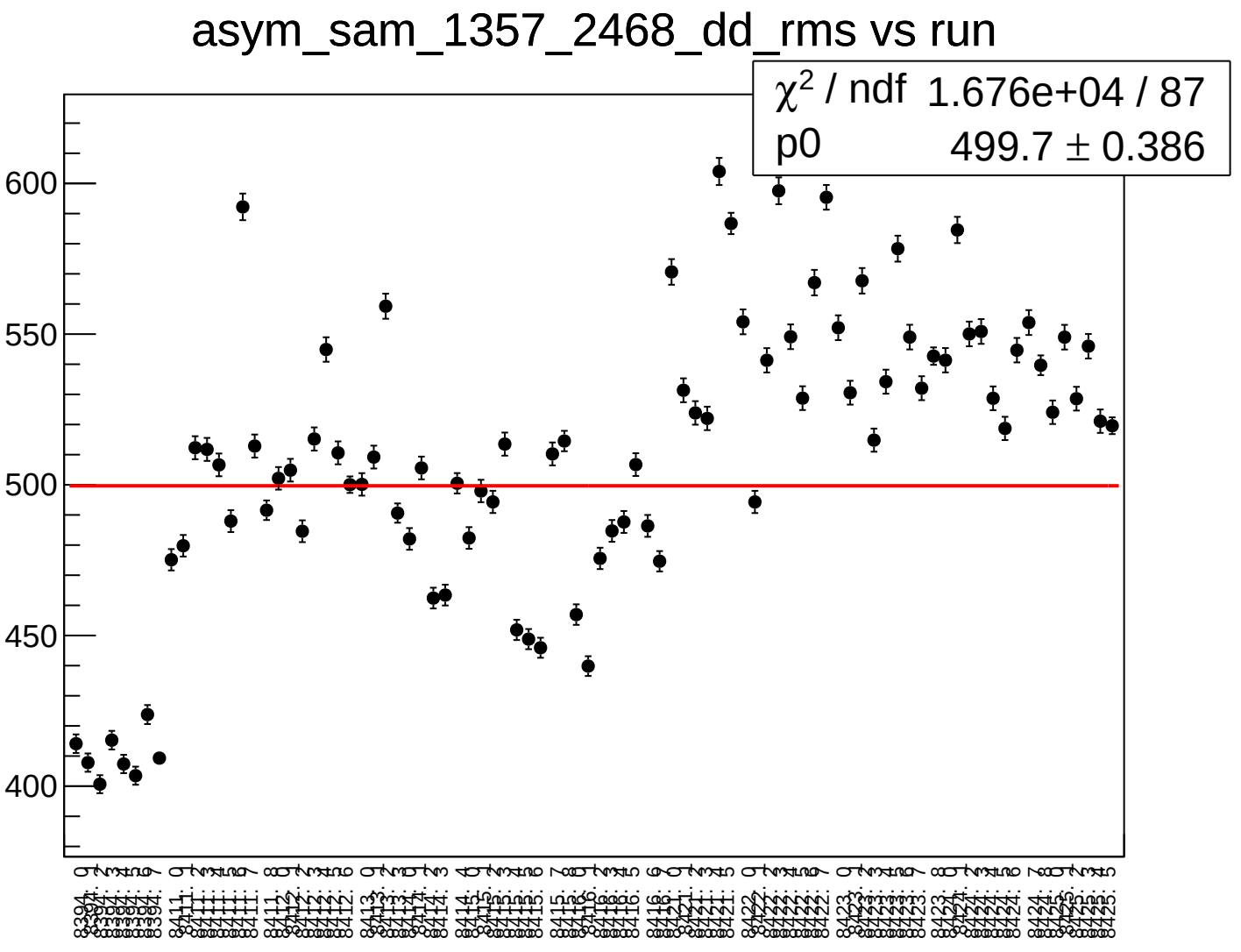

pull1D
Entries 88
Mean −0.006137
Std Dev 0.9413
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

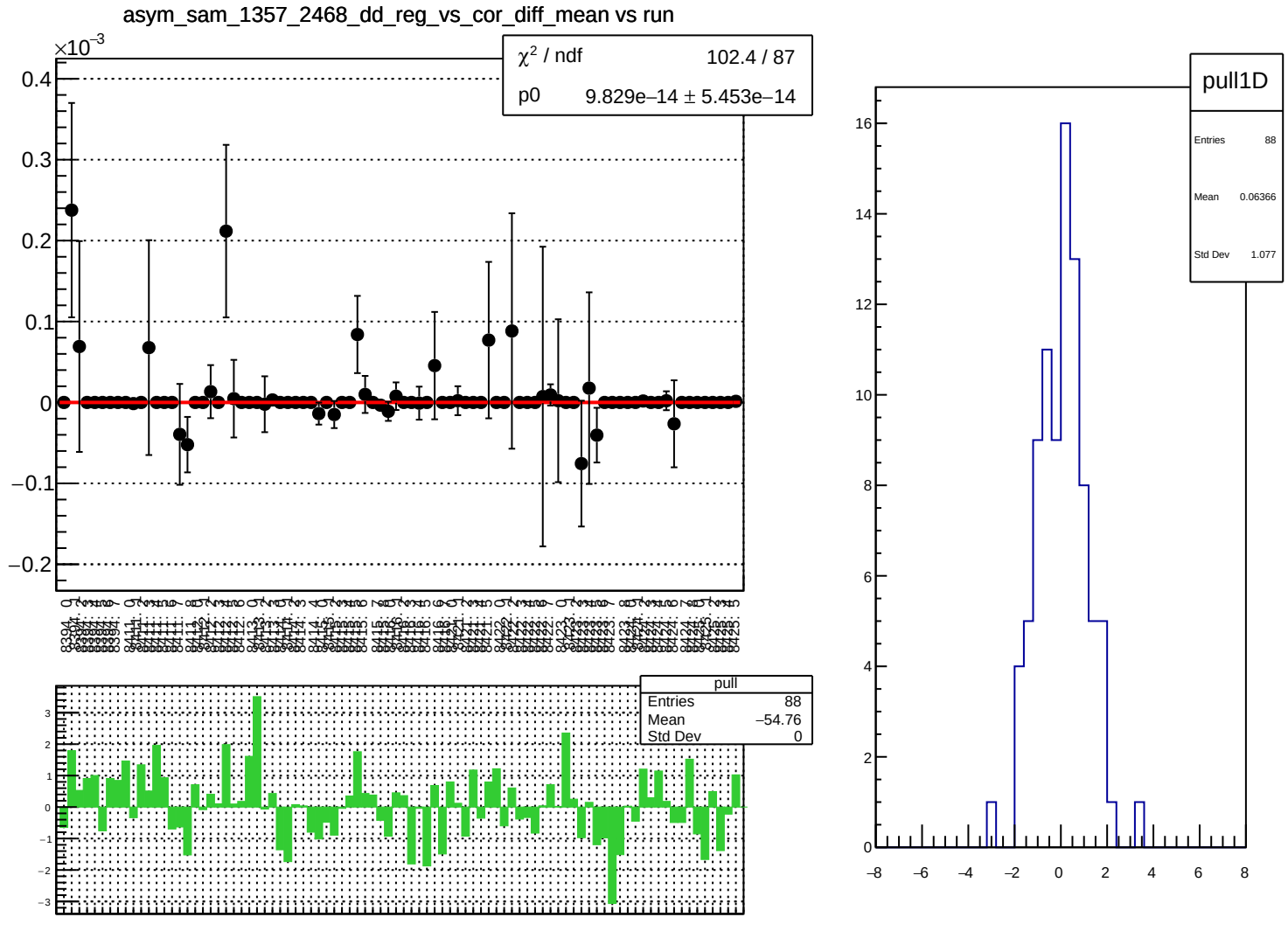

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.542e+04 / 87
p0 34.4 ± 0.02664
55
50
45
40
35
30
25

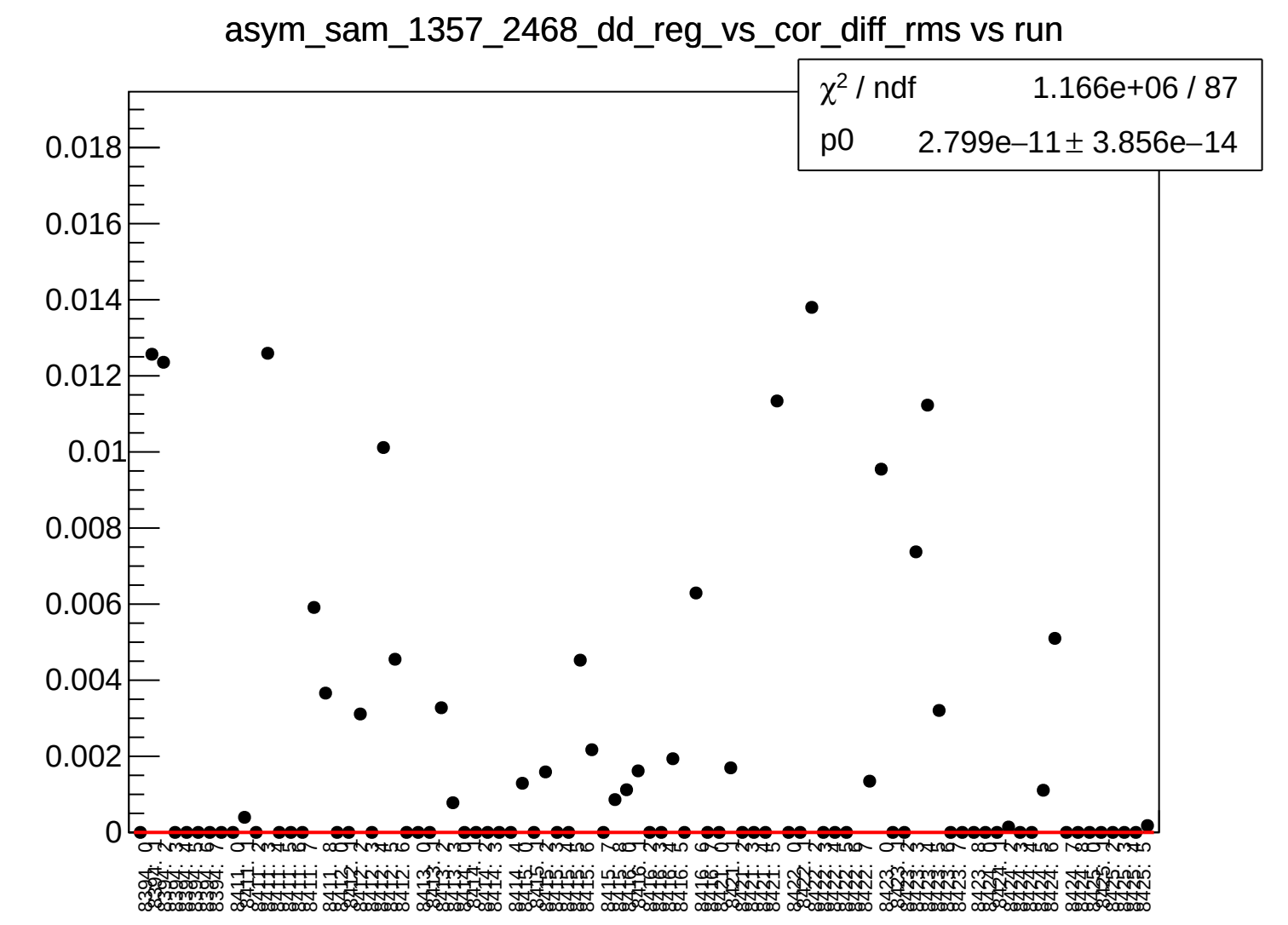

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 66.33 / 87
p0 2152 ± 565.8
pull
Entries 88
Mean −281.9
Std Dev 0
pull1D
Entries 88
Mean −0.01187
Std Dev 0.8681

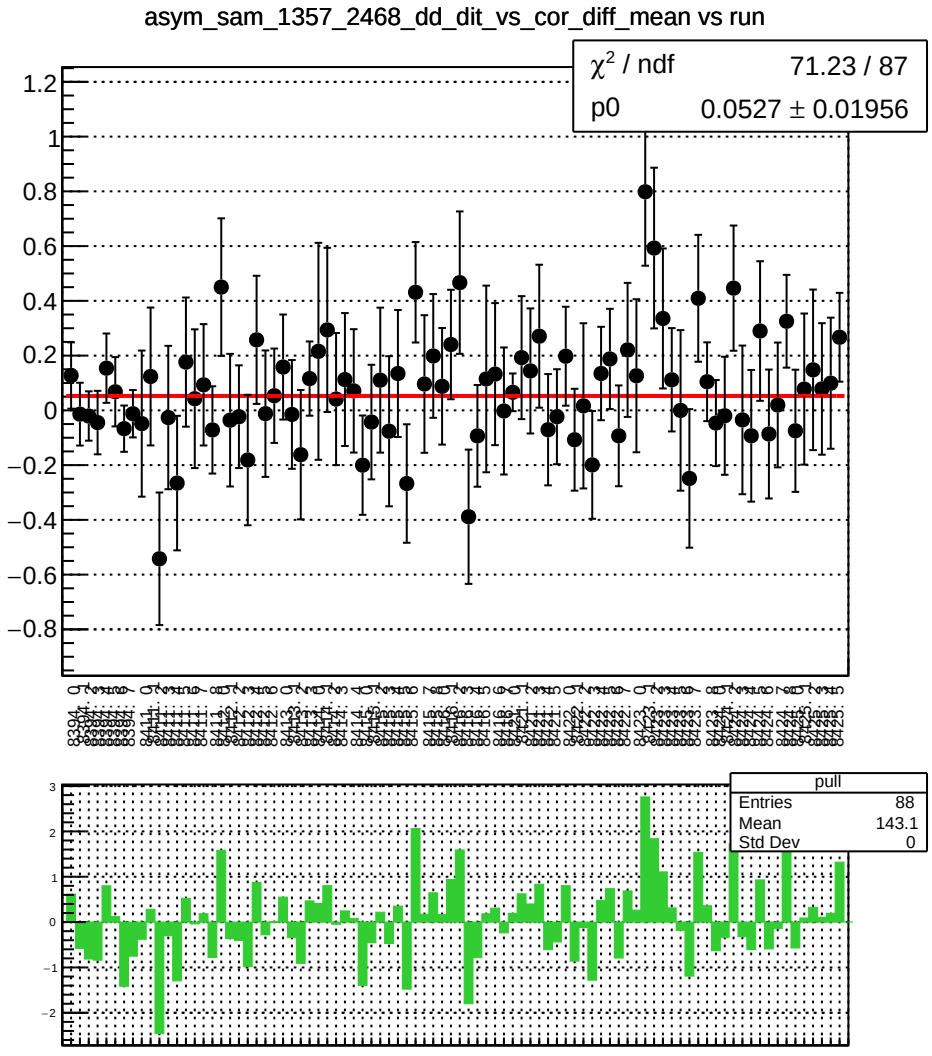

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.817e+04 / 87
p0 517.8 ± 0.4001
600
550
500
450
400

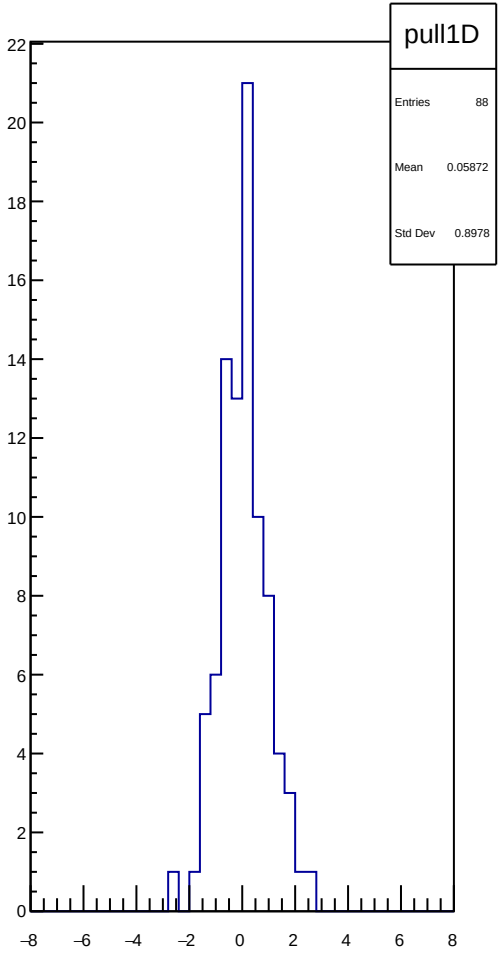

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 66.29 / 87
p0 −2176 ± 545.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 88
Mean −294.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01195
Std Dev 0.8679
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

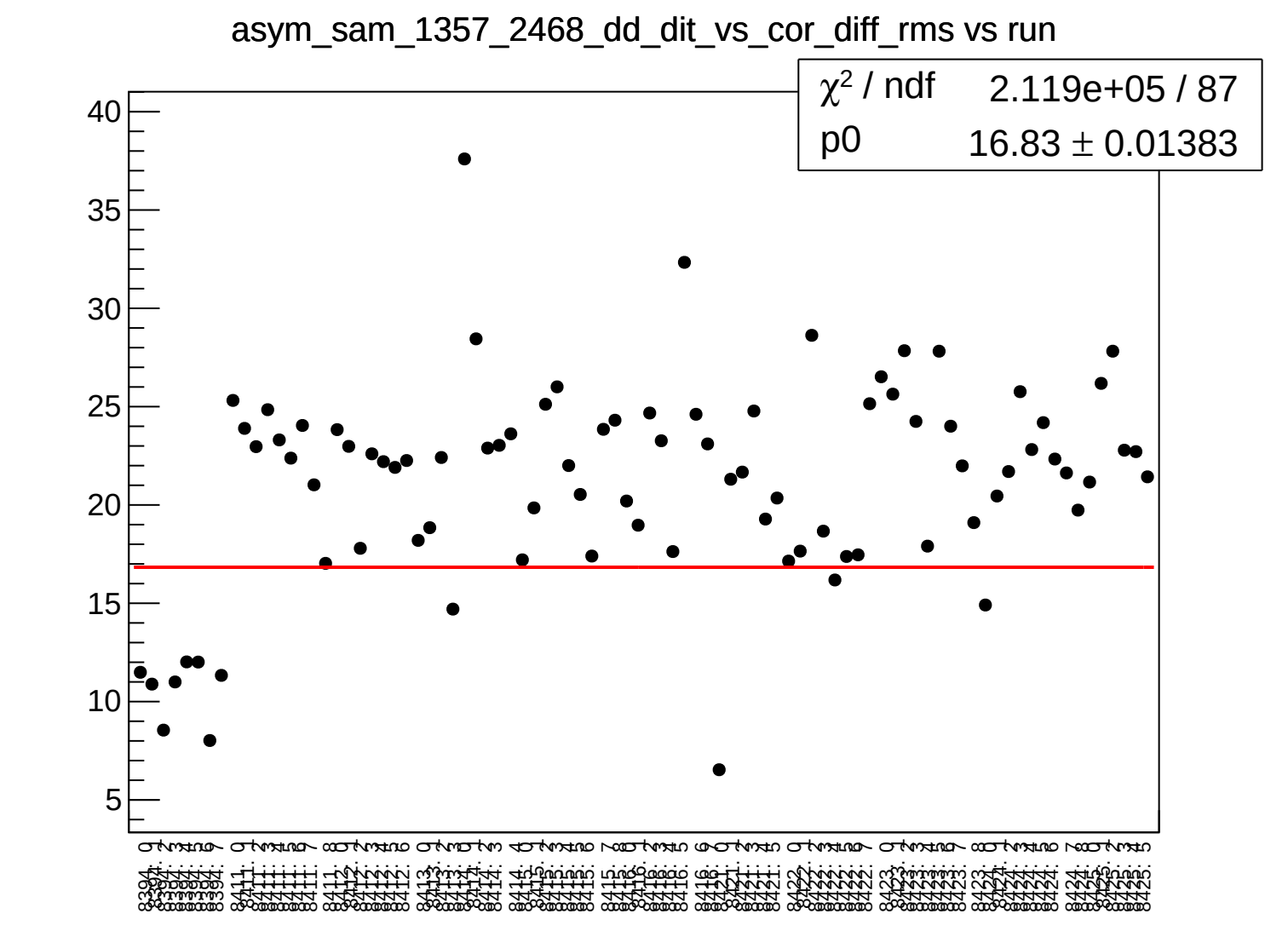

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.676e+04 / 87
p0 499.7 ± 0.386
600
550
500
450
400

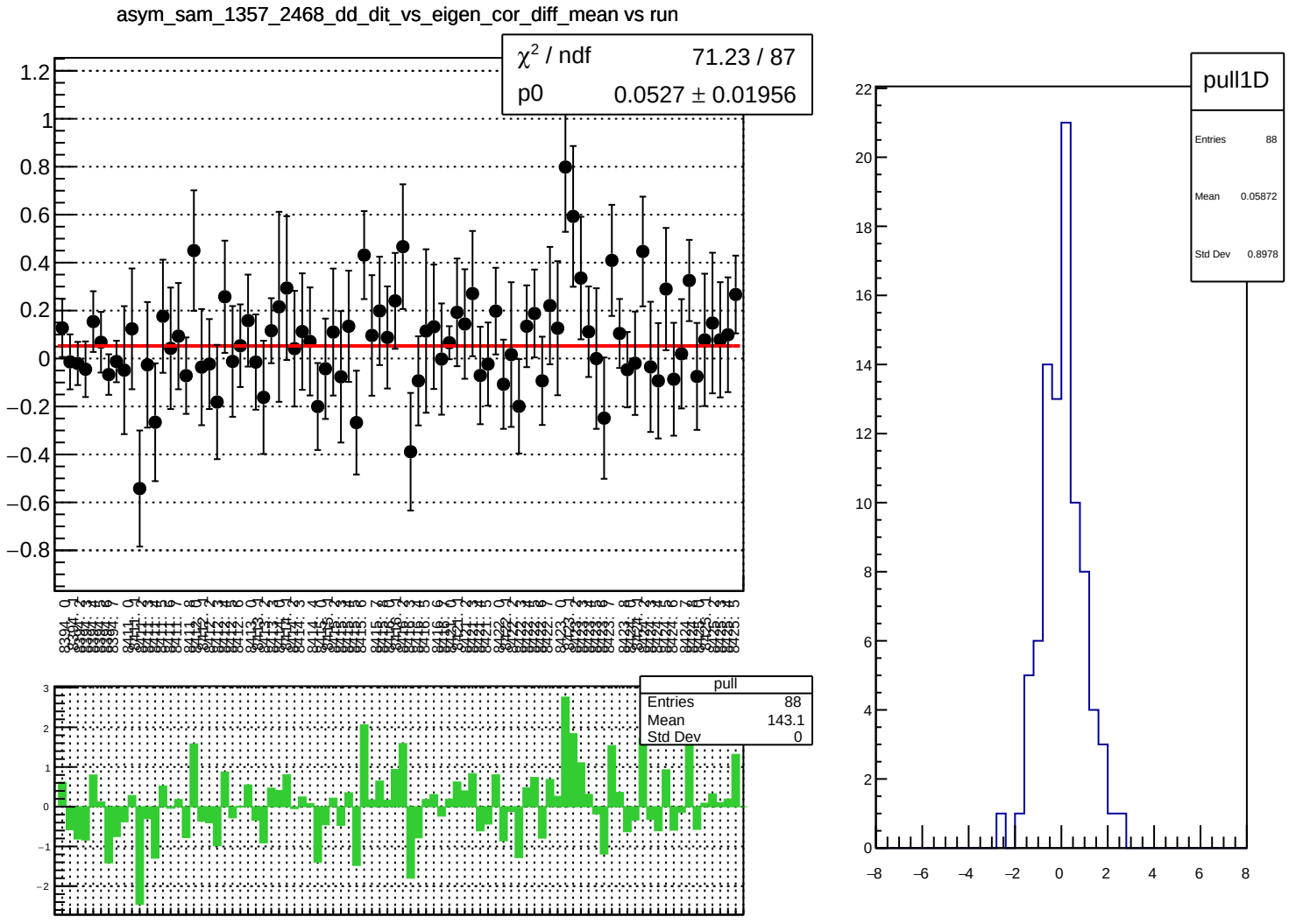

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 102.4 / 87
p0 9.829e−14 ± 5.453e−14
pull
Entries 88
Mean −54.76
Std Dev 0
pull1D
Entries 88
Mean 0.06366
Std Dev 1.077

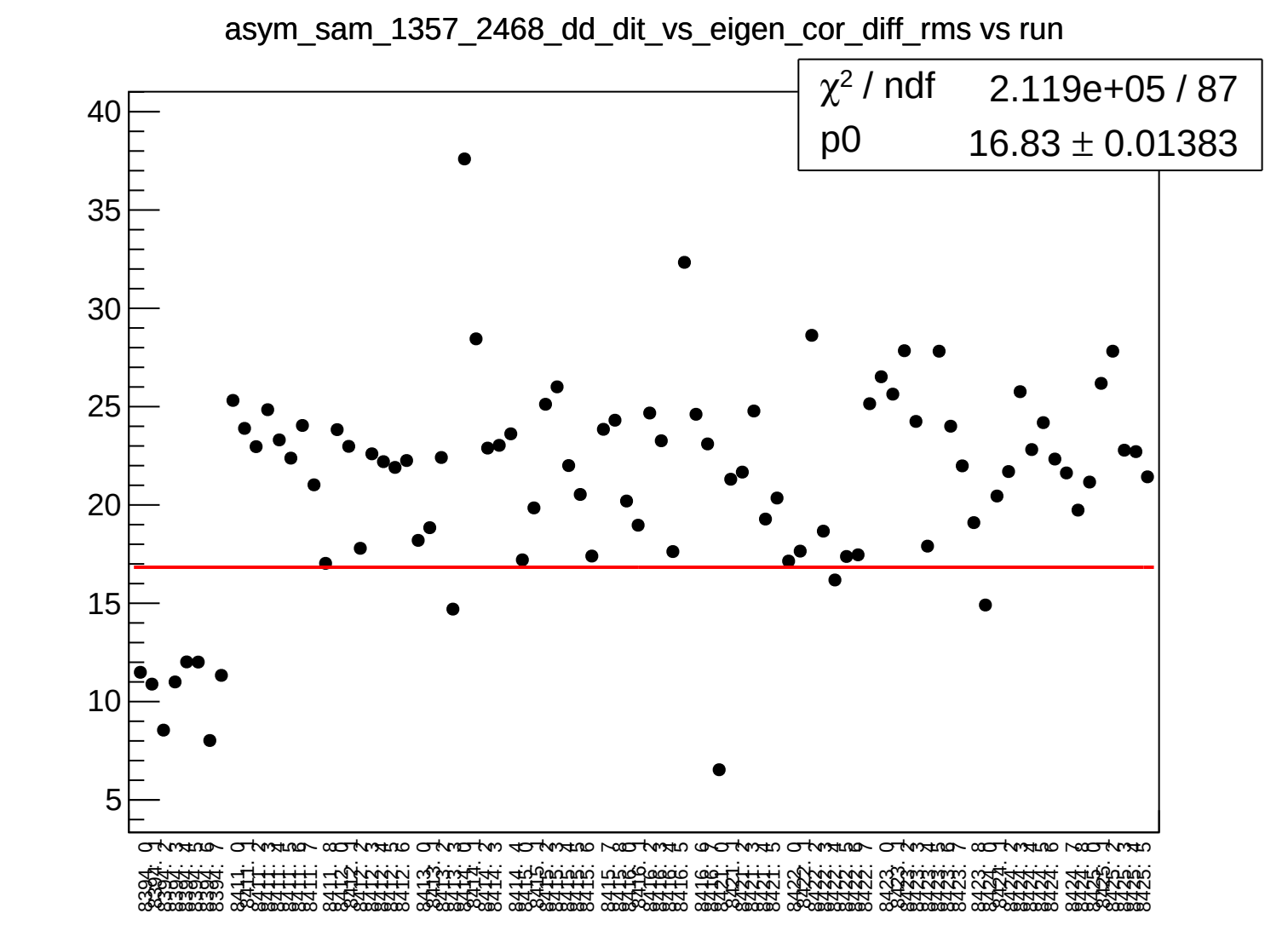

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.166e+06 / 87
p0 2.799e−11 ± 3.856e−14
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

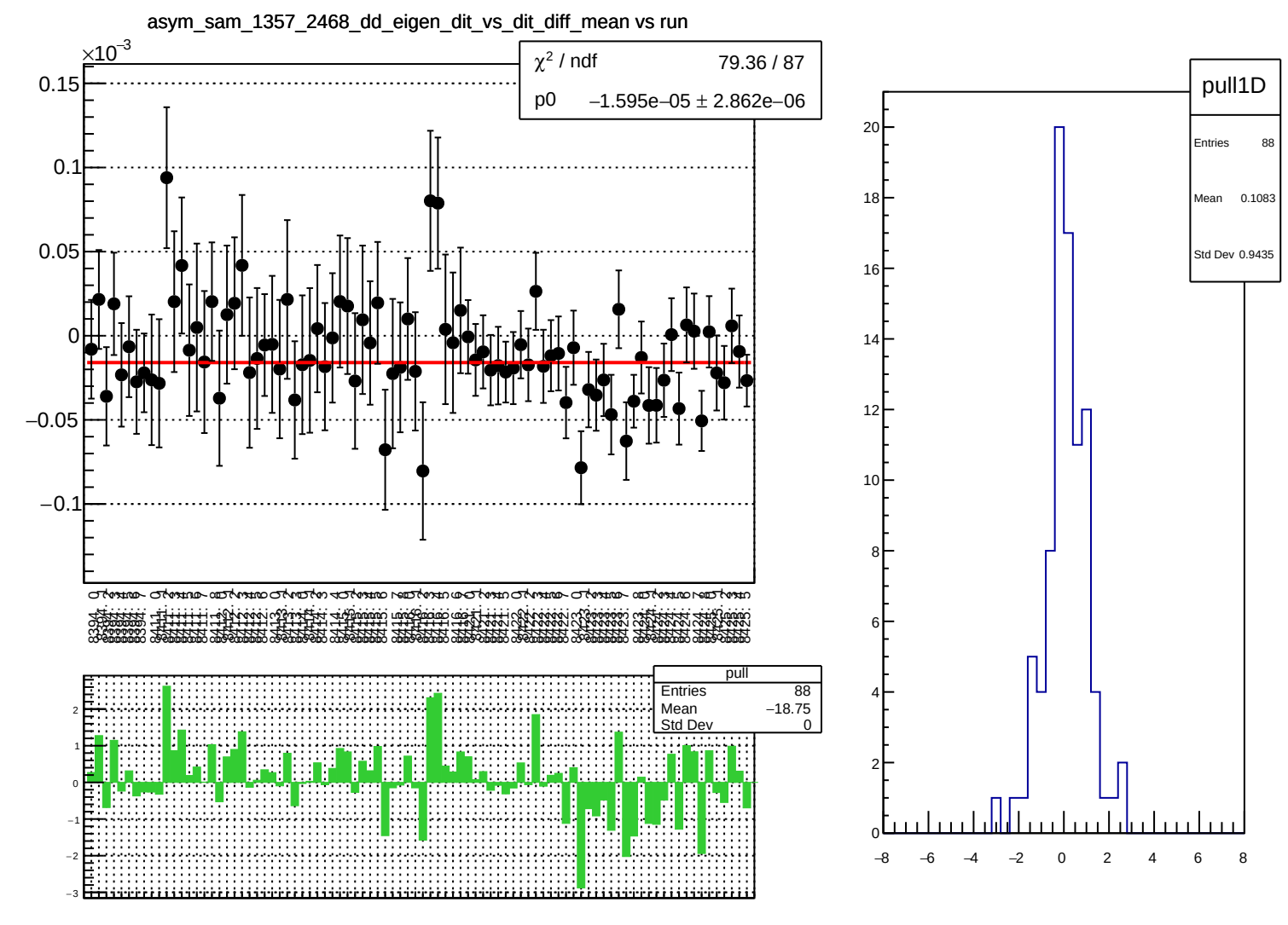

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 71.23 / 87
p0 0.0527 ± 0.01956
pull
Entries 88
Mean 143.1
Std Dev 0

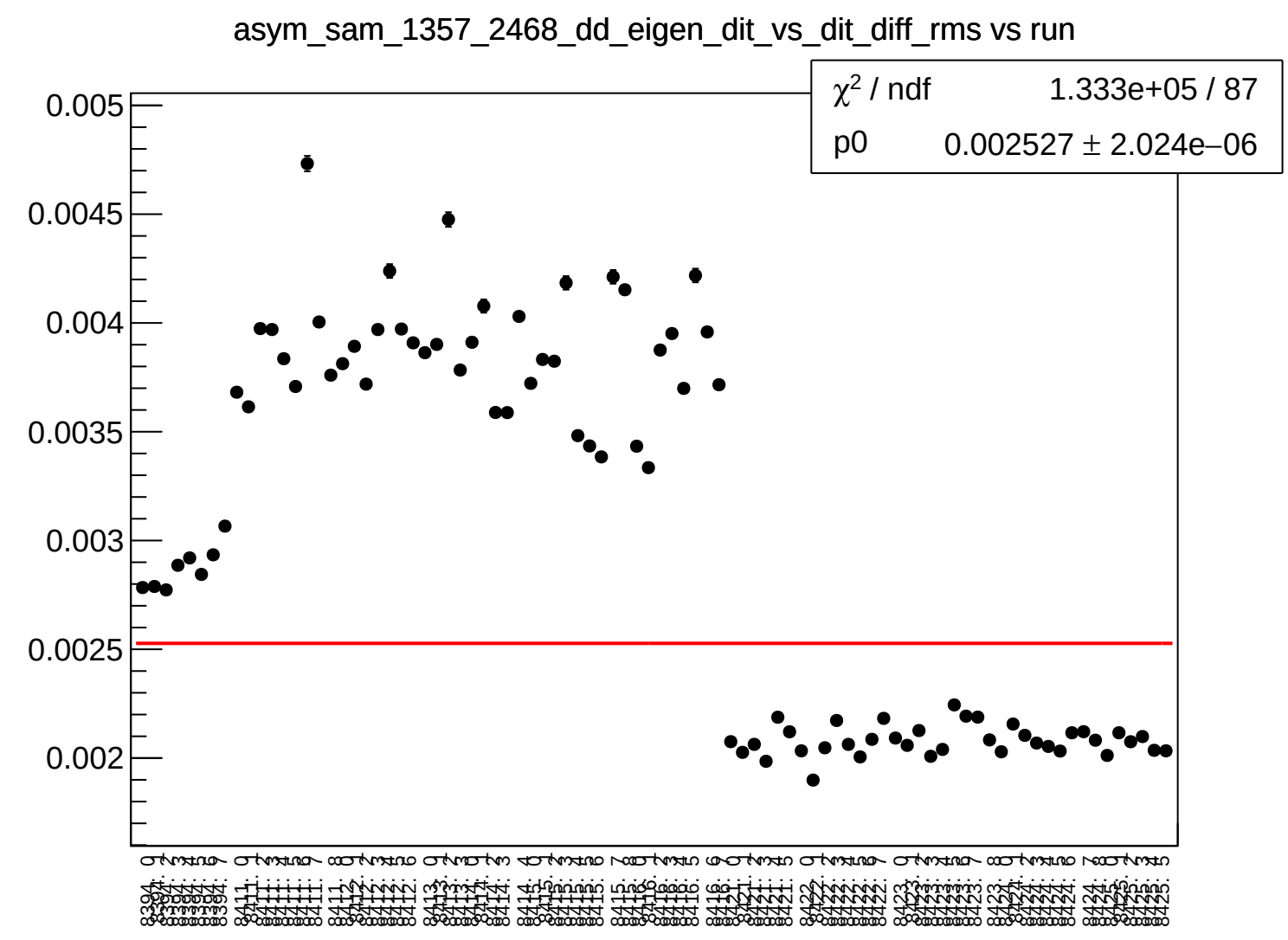

pull1D
Entries 88
Mean 0.05872
Std Dev 0.8978

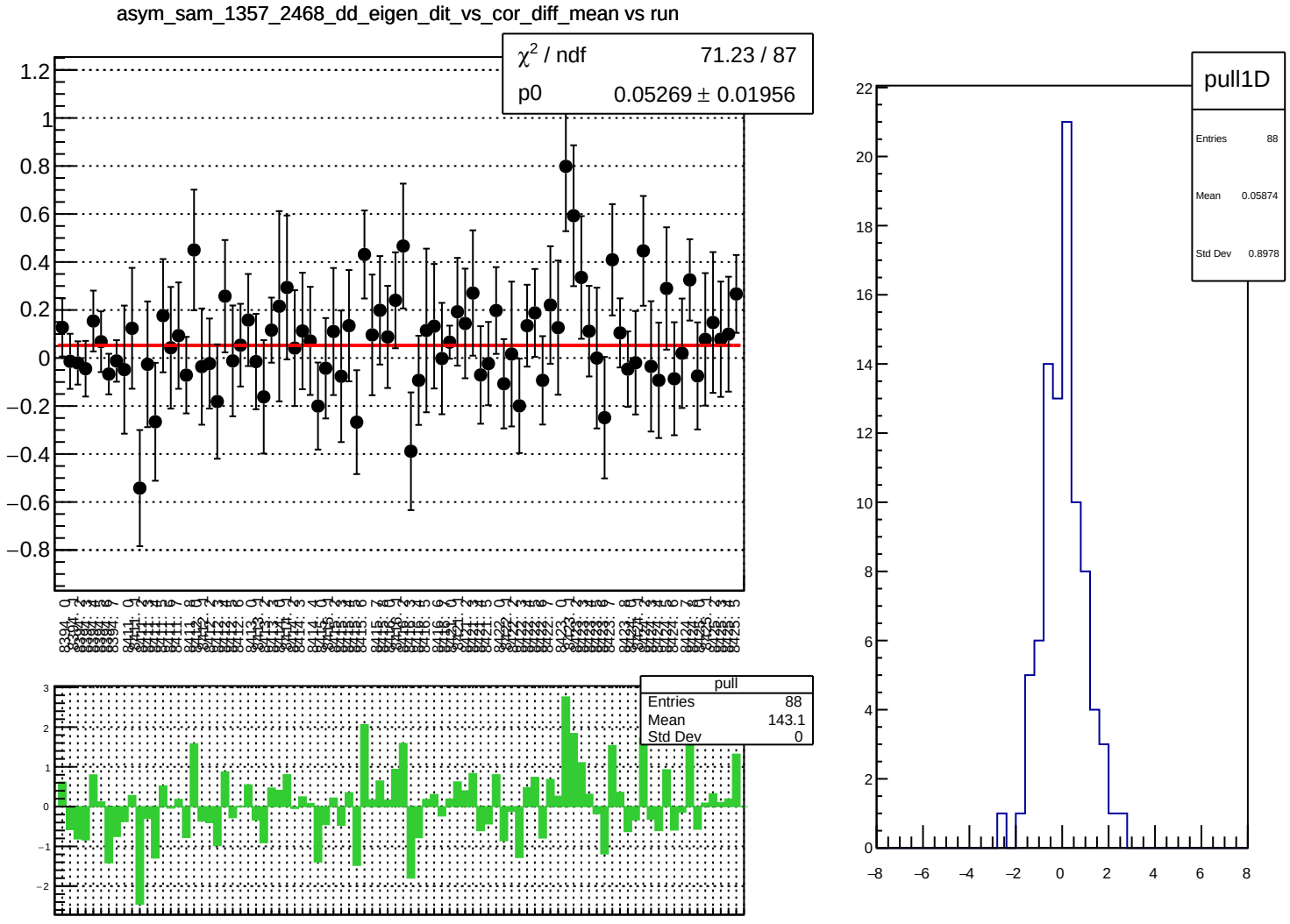

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.119e+05 / 87
p0 16.83 ± 0.01383
40
35
30
25
20
15
10
5

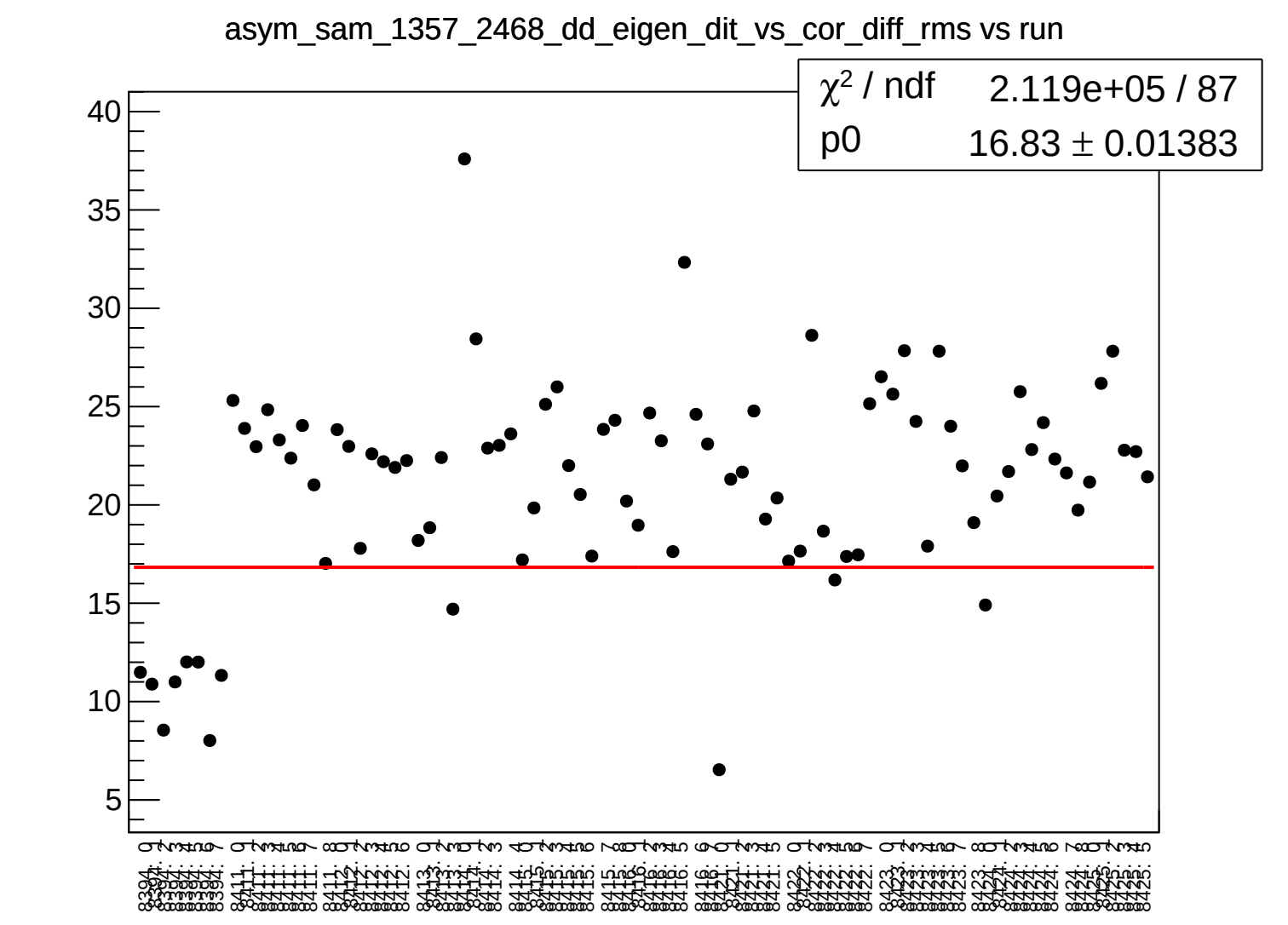

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.23 / 87
p0 0.0527 ± 0.01956
pull
Entries 88
Mean 143.1
Std Dev 0
pull1D
Entries 88
Mean 0.05872
Std Dev 0.8978

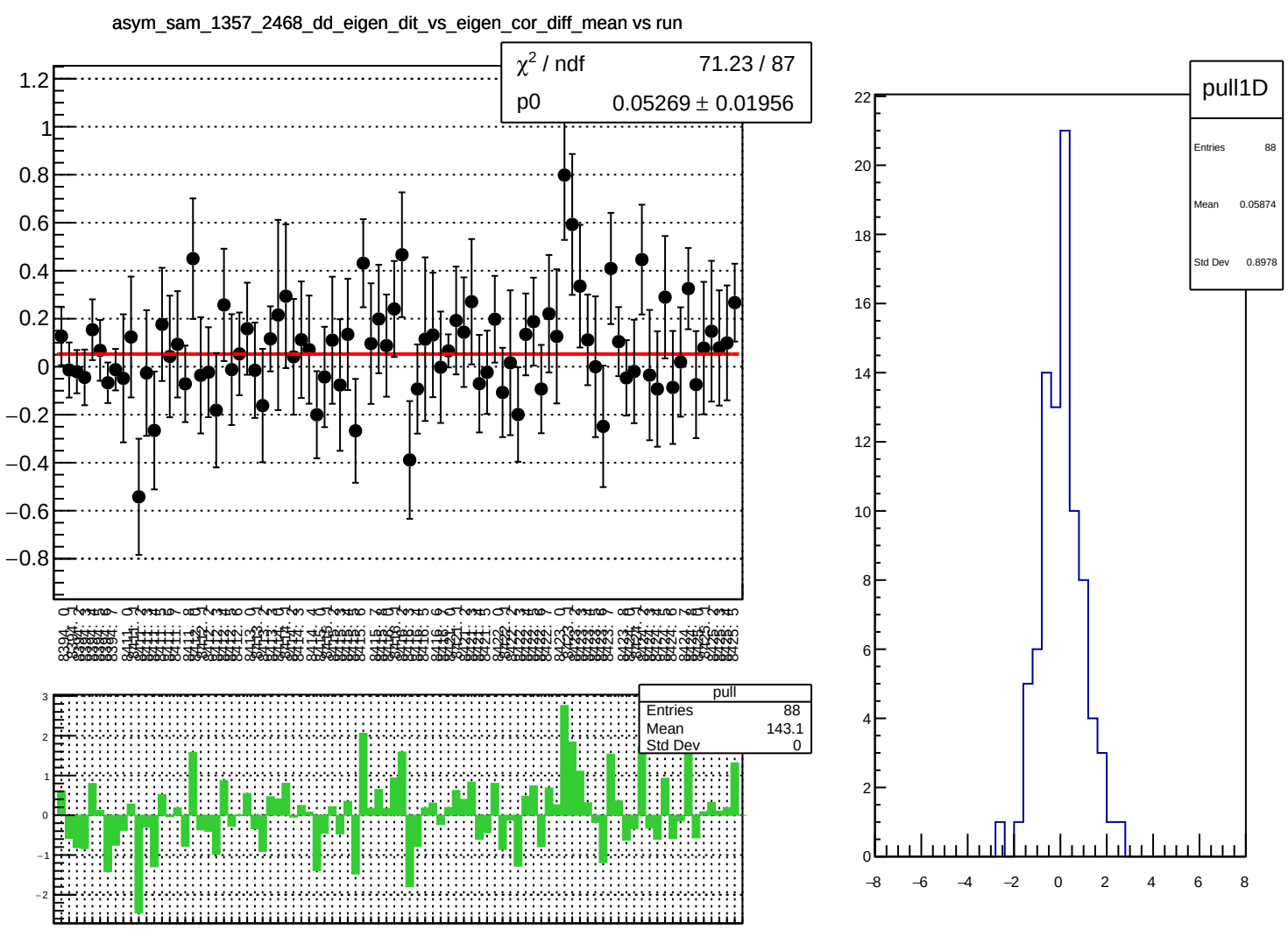

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.119e+05 / 87
p0 16.83 ± 0.01383
40
35
30
25
20
15
10
5

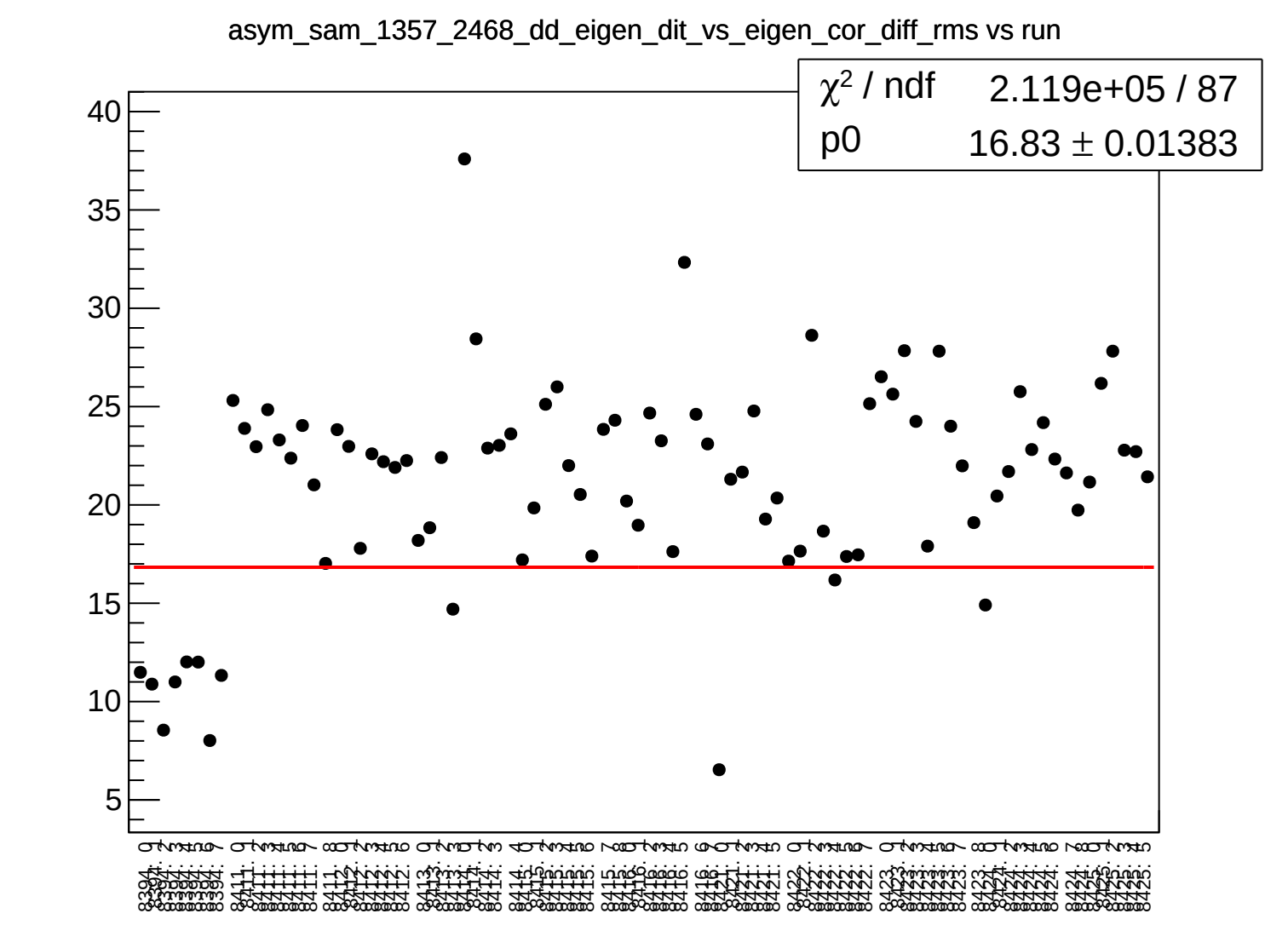

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.36 / 87
p0 −1.595e−05 ± 2.862e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean −18.75
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.1083
Std Dev 0.9435
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

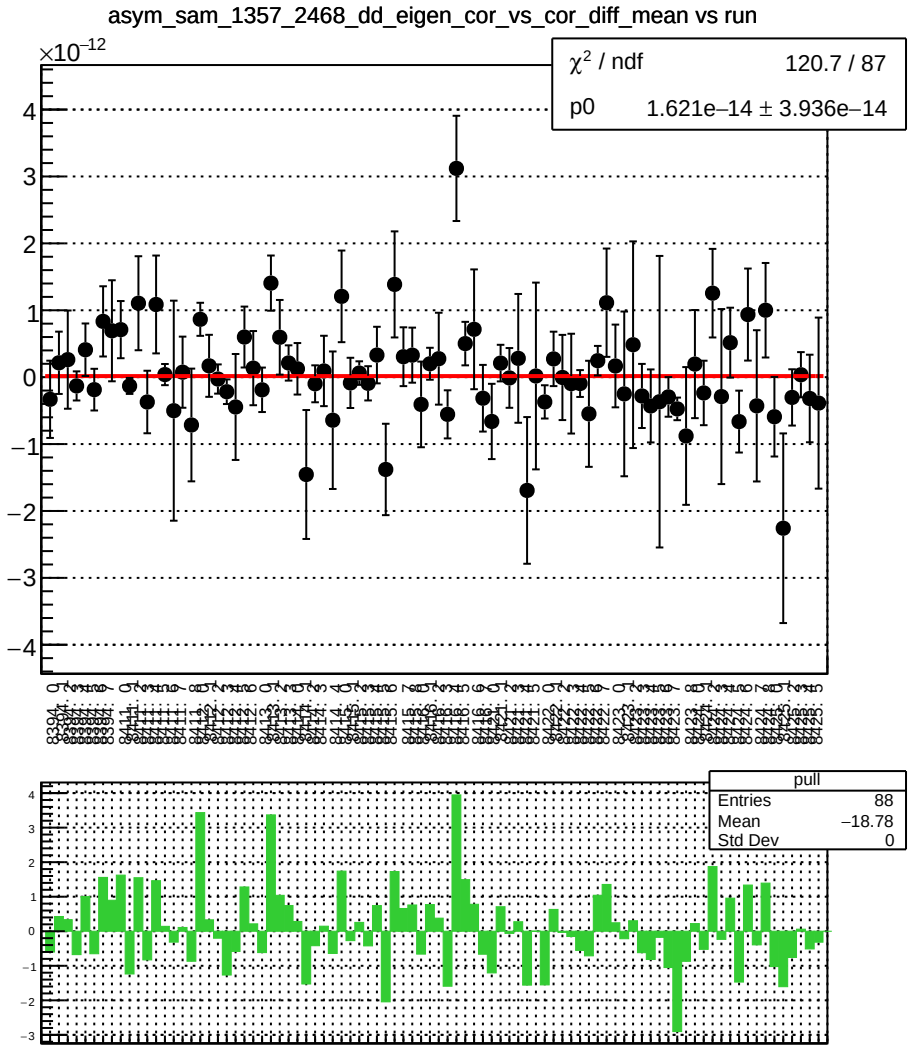

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.333e+05 / 87
p0 0.002527 ± 2.024e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

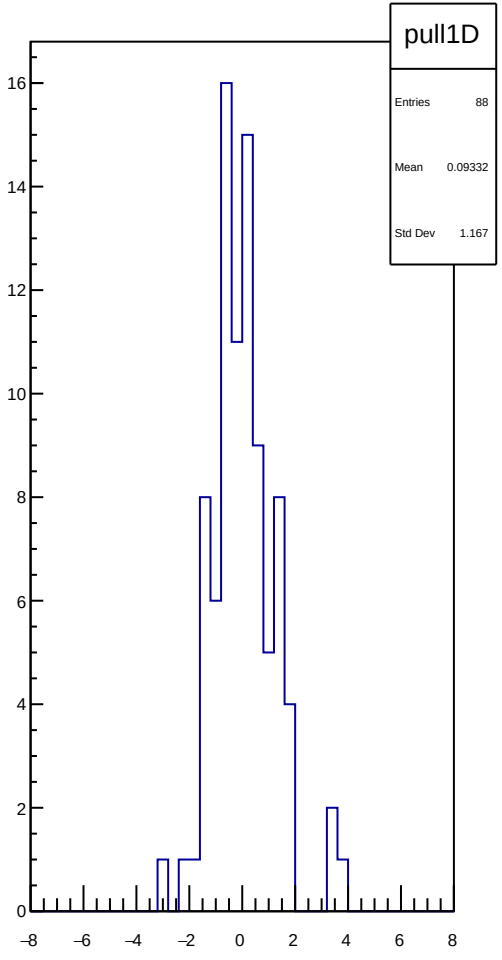

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.23 / 87
p0 0.05269 ± 0.01956
pull
Entries 88
Mean 143.1
Std Dev 0
pull1D
Entries 88
Mean 0.05874
Std Dev 0.8978

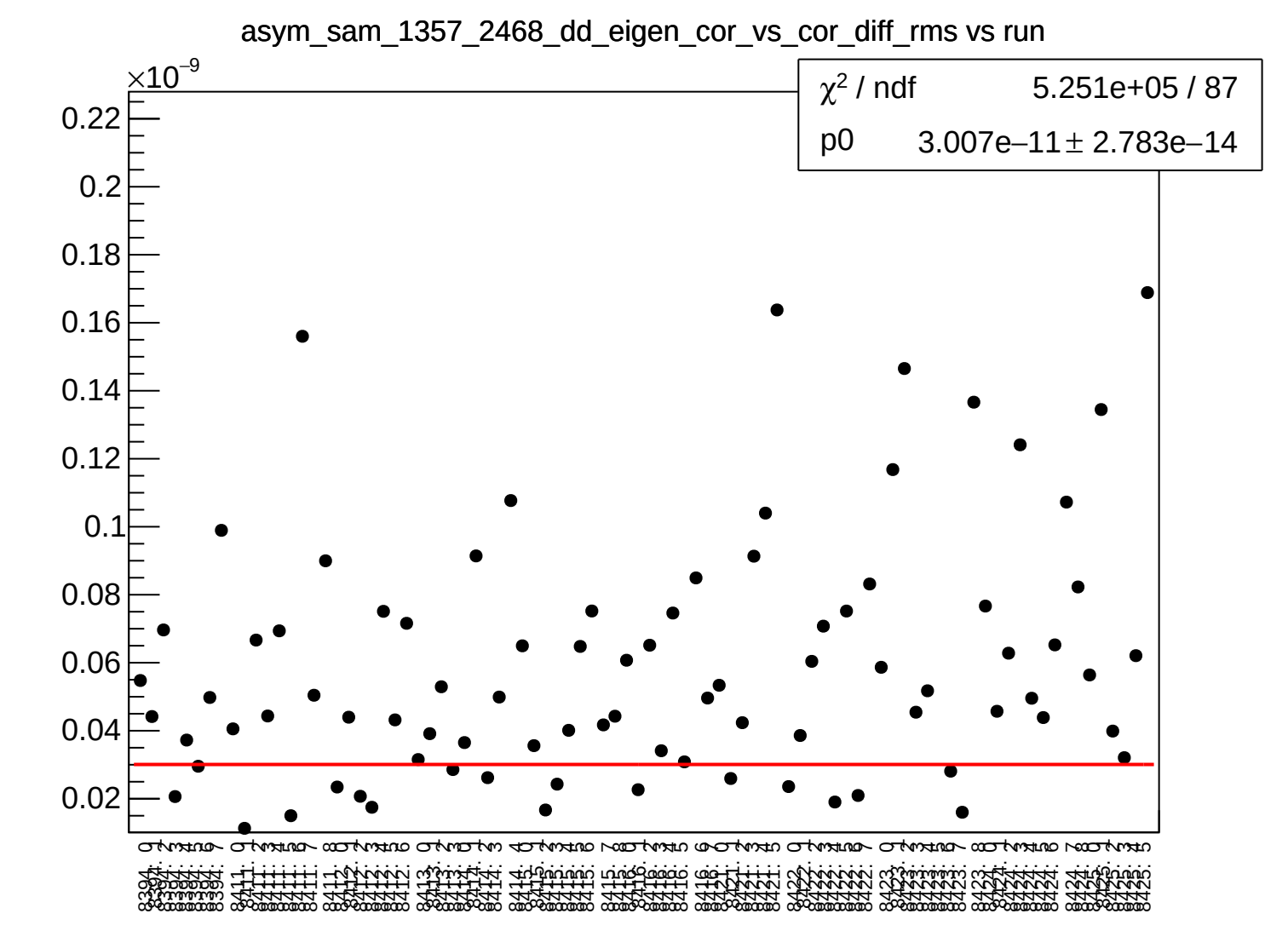

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.119e+05 / 87
p0 16.83 ± 0.01383
40
35
30
25
20
15
10
5

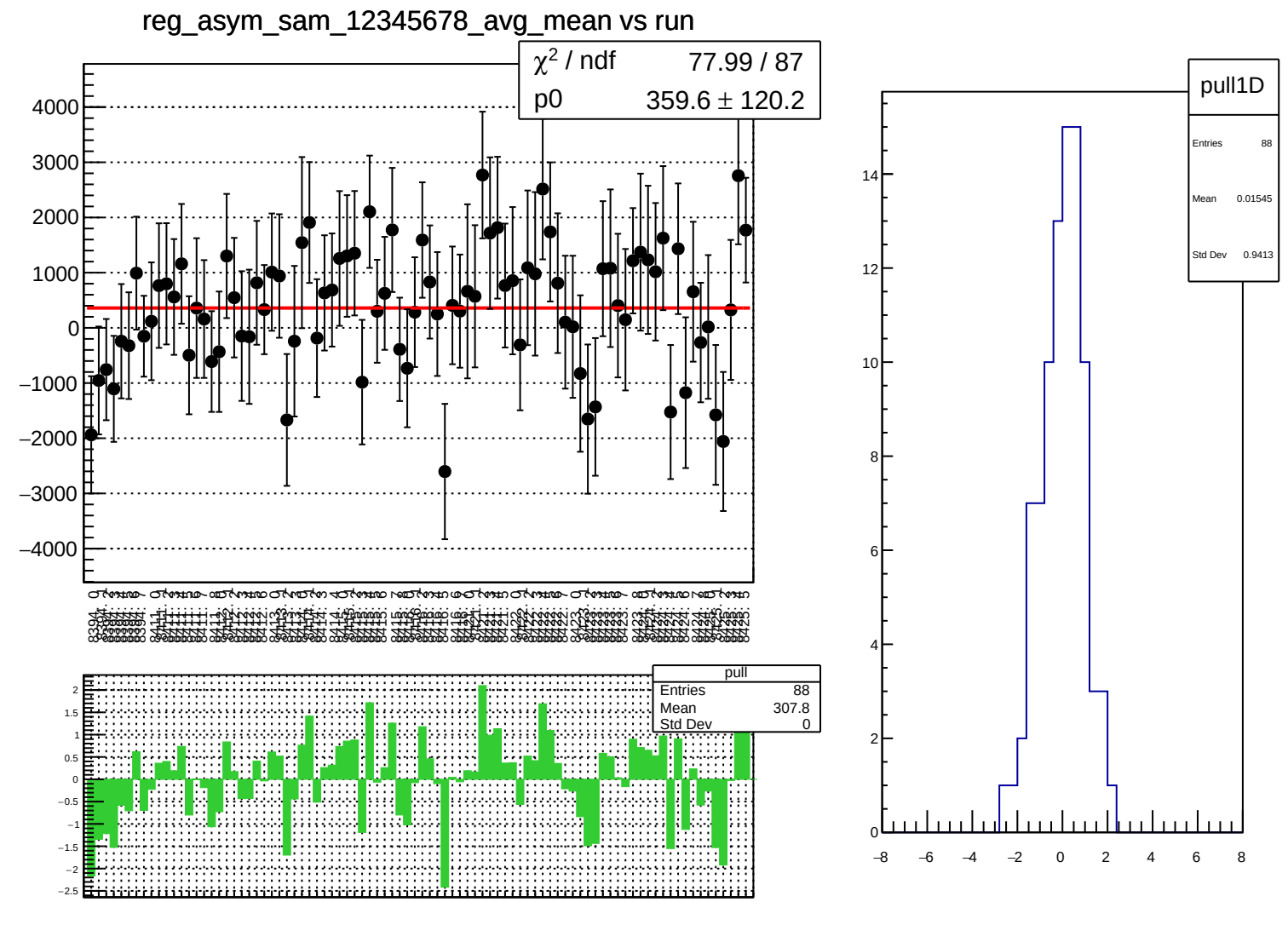

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.23 / 87
p0 0.05269 ± 0.01956
pull
Entries 88
Mean 143.1
Std Dev 0
pull1D
Entries 88
Mean 0.05874
Std Dev 0.8978

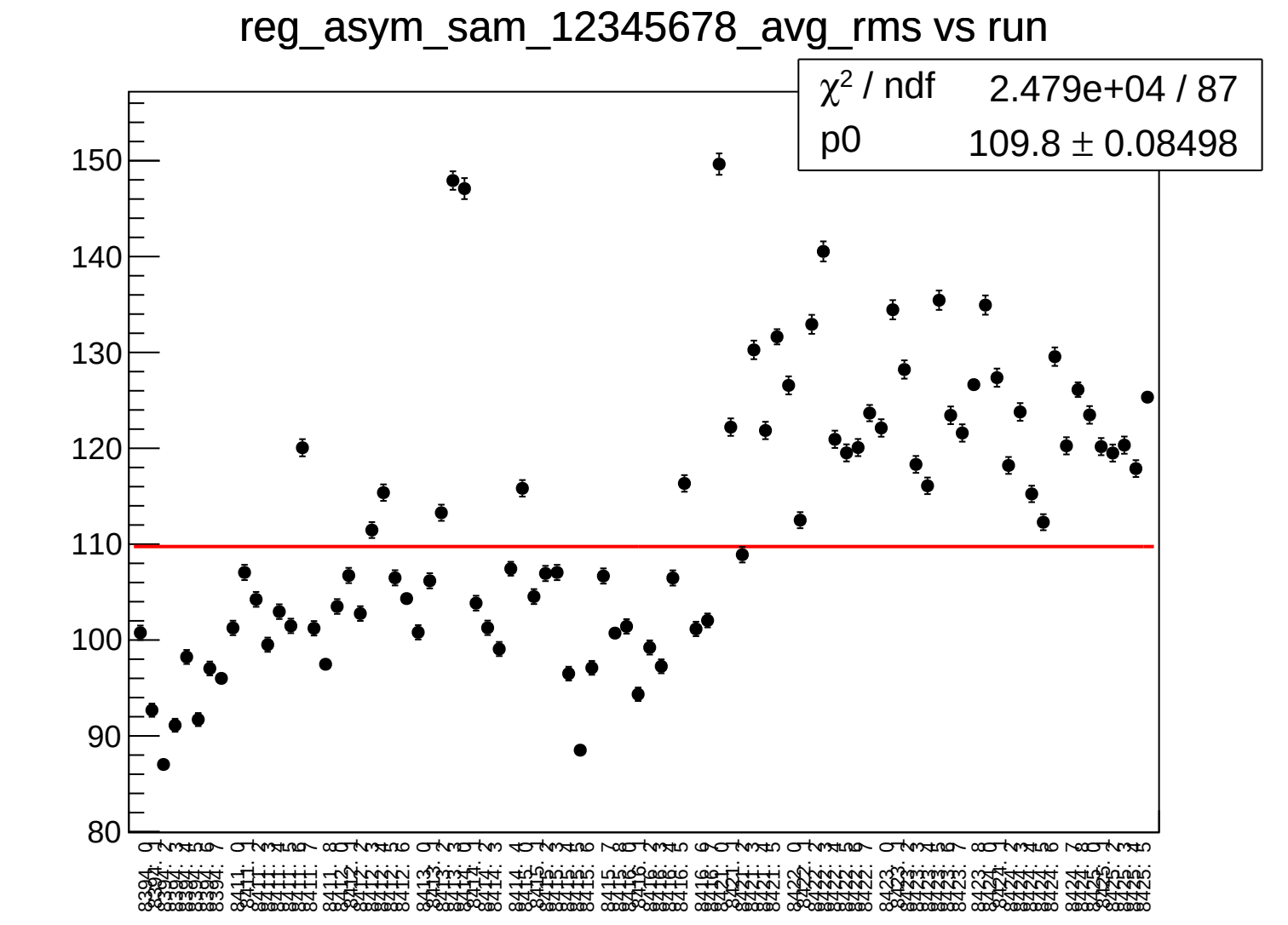

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.119e+05 / 87
p0 16.83 ± 0.01383
40
35
30
25
20
15
10
5

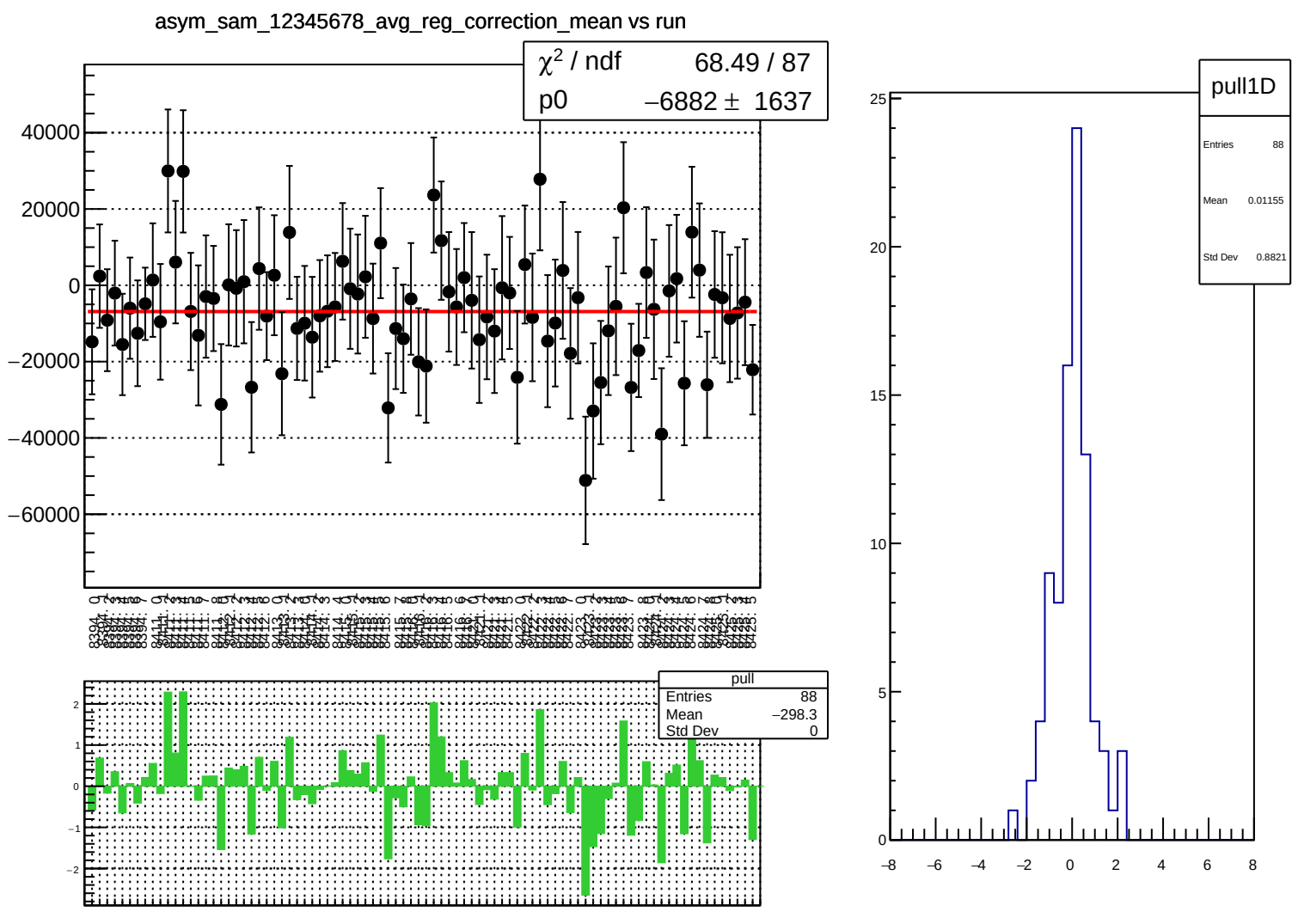

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 120.7 / 87
p0 1.621e−14 ± 3.936e−14
pull
Entries 88
Mean −18.78
Std Dev 0

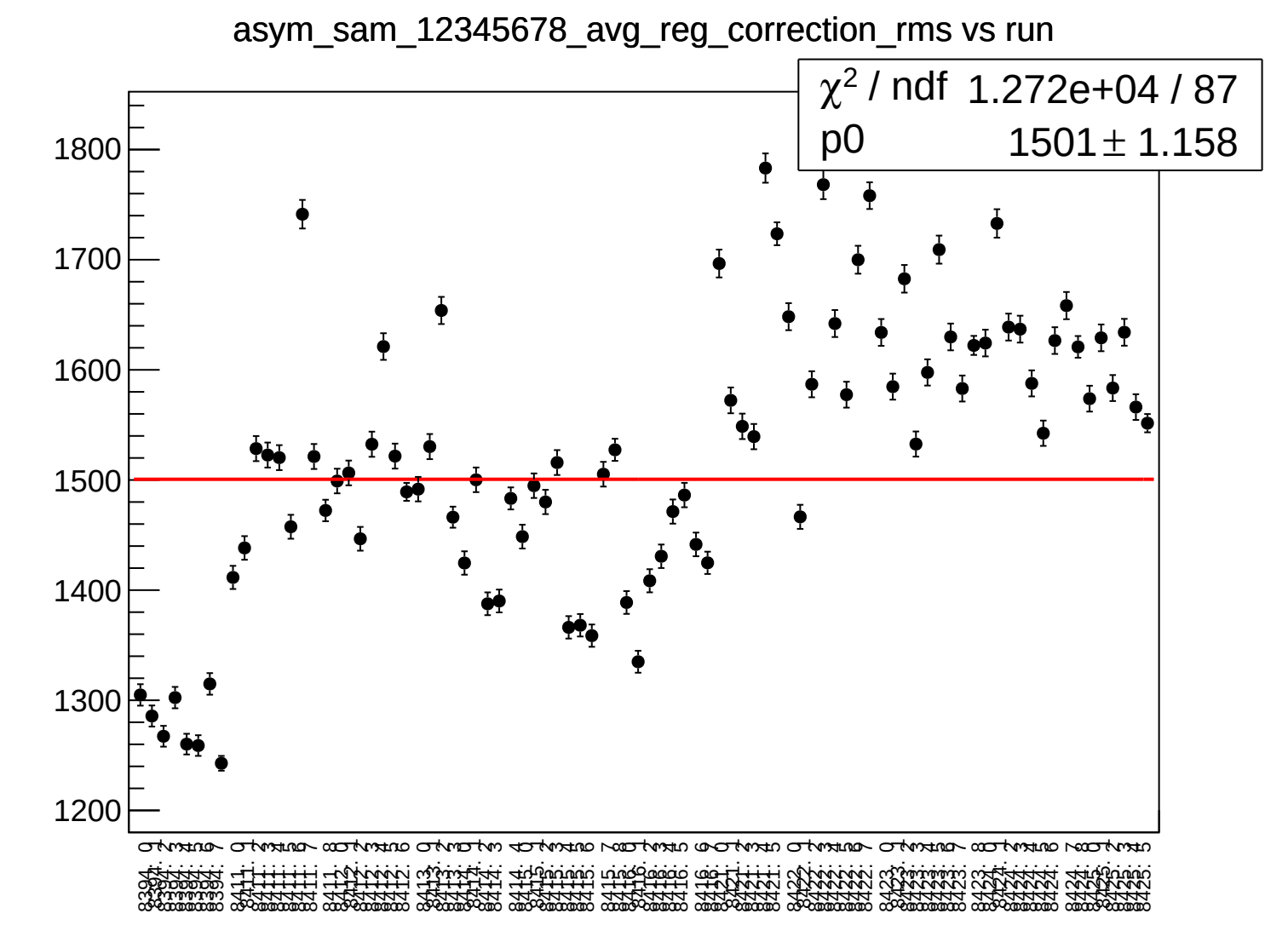

pull1D
Entries 88
Mean 0.09332
Std Dev 1.167

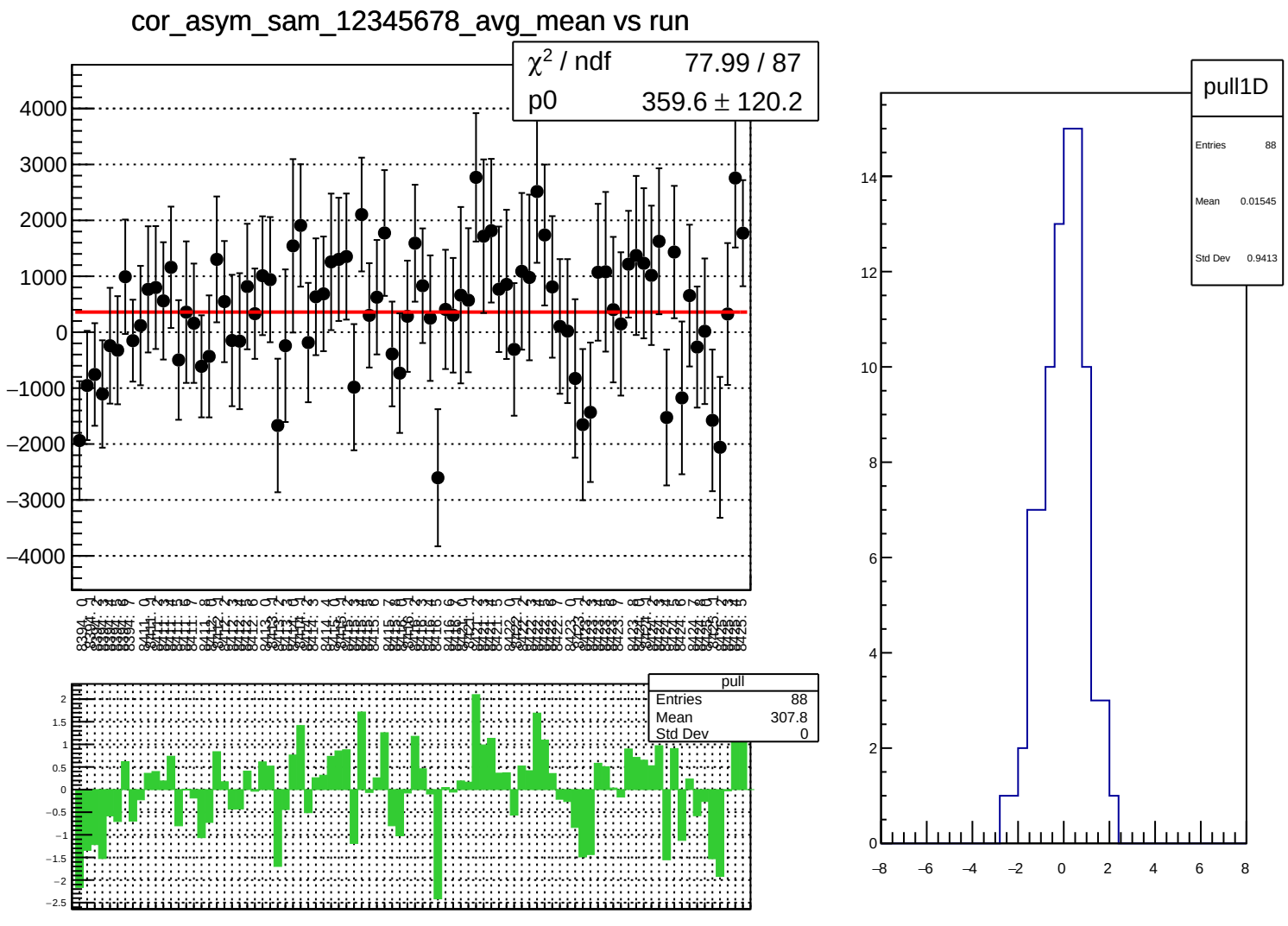

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.251e+05 / 87
p0 3.007e−11 ± 2.783e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

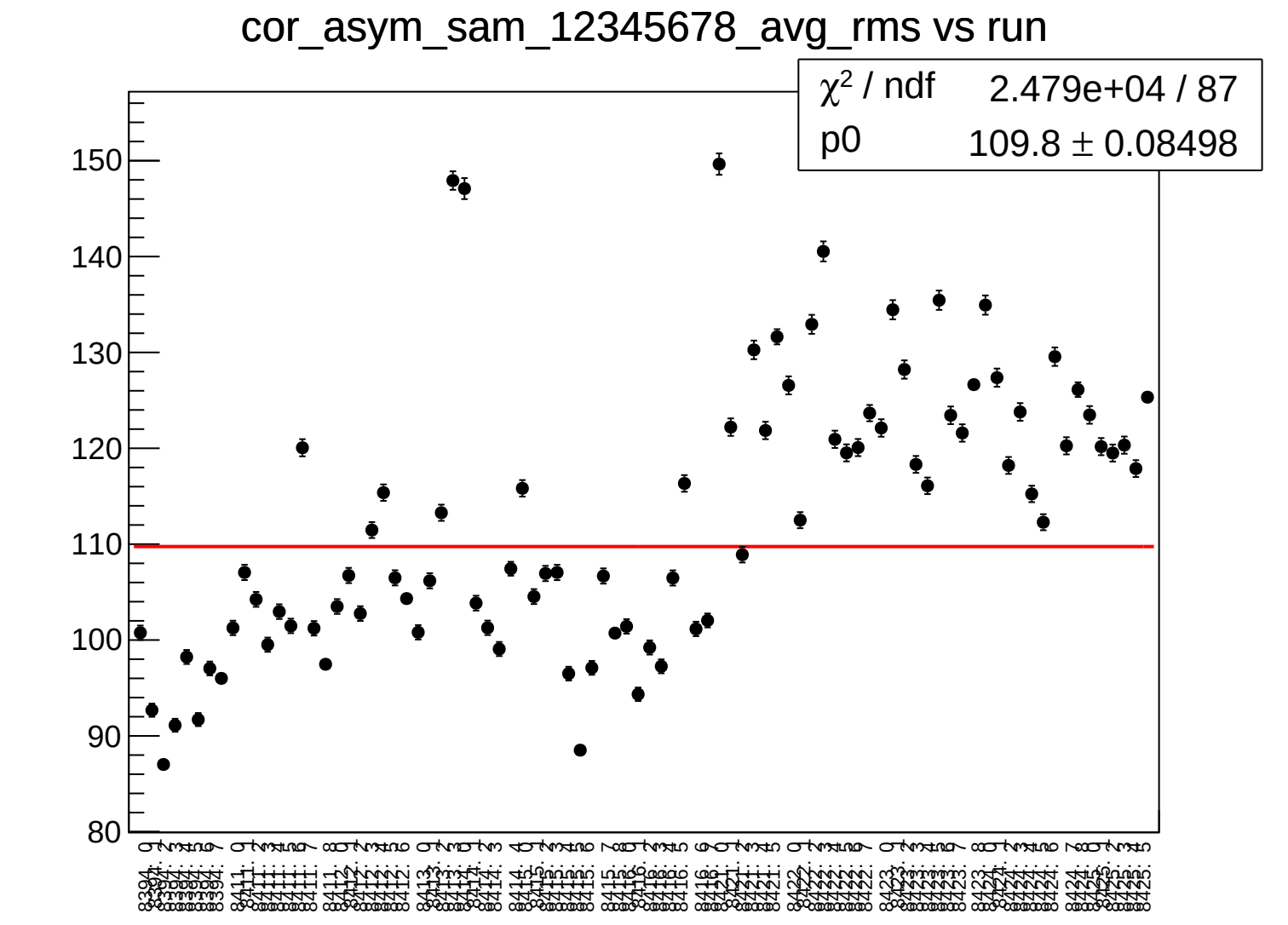

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 77.99 / 87
p0 359.6 ± 120.2
pull
Entries 88
Mean 307.8
Std Dev 0
pull1D
Entries 88
Mean 0.01545
Std Dev 0.9413

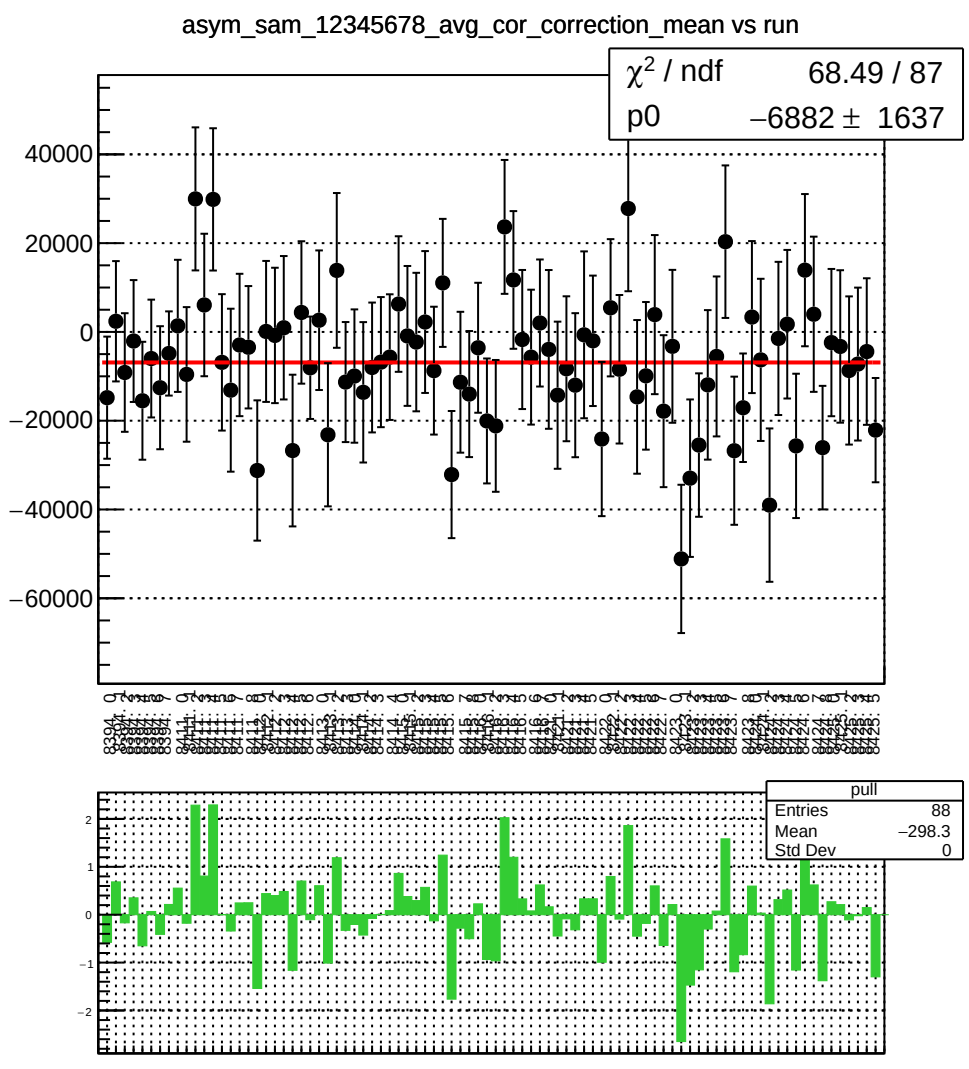

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.479e+04 / 87
p0 109.8 ± 0.08498
150
140
130
120
110
100
90
80

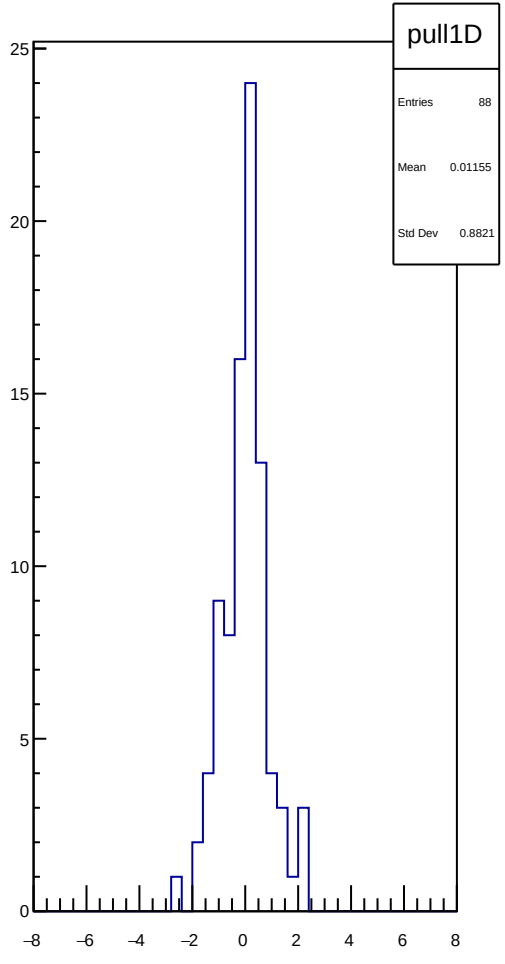

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 68.49 / 87
p0 −6882 ± 1637
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −298.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01155
Std Dev 0.8821
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

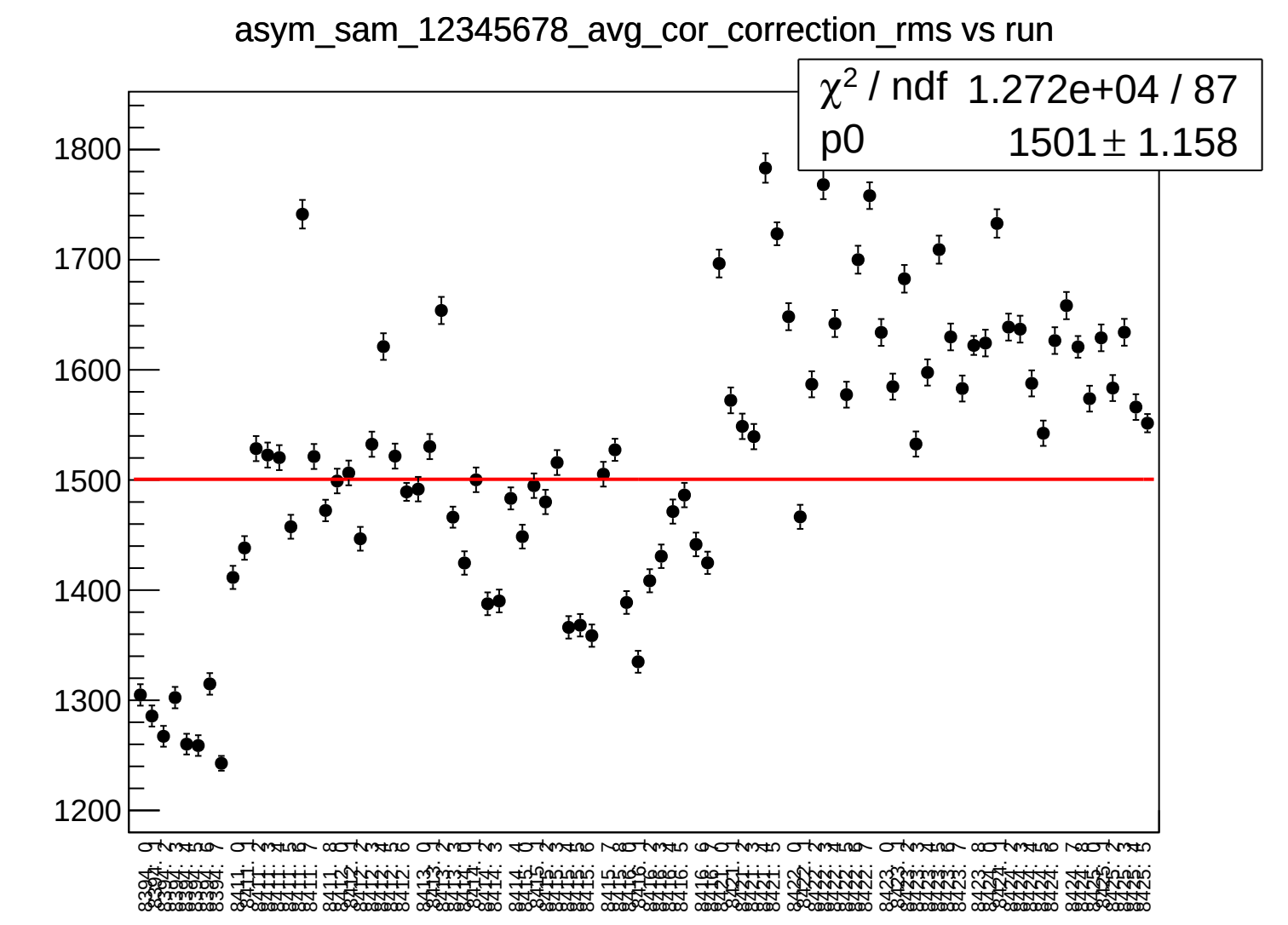

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 1.272e+04 / 87
p0 1501 ± 1.158
1800
1700
1600
1500
1400
1300
1200

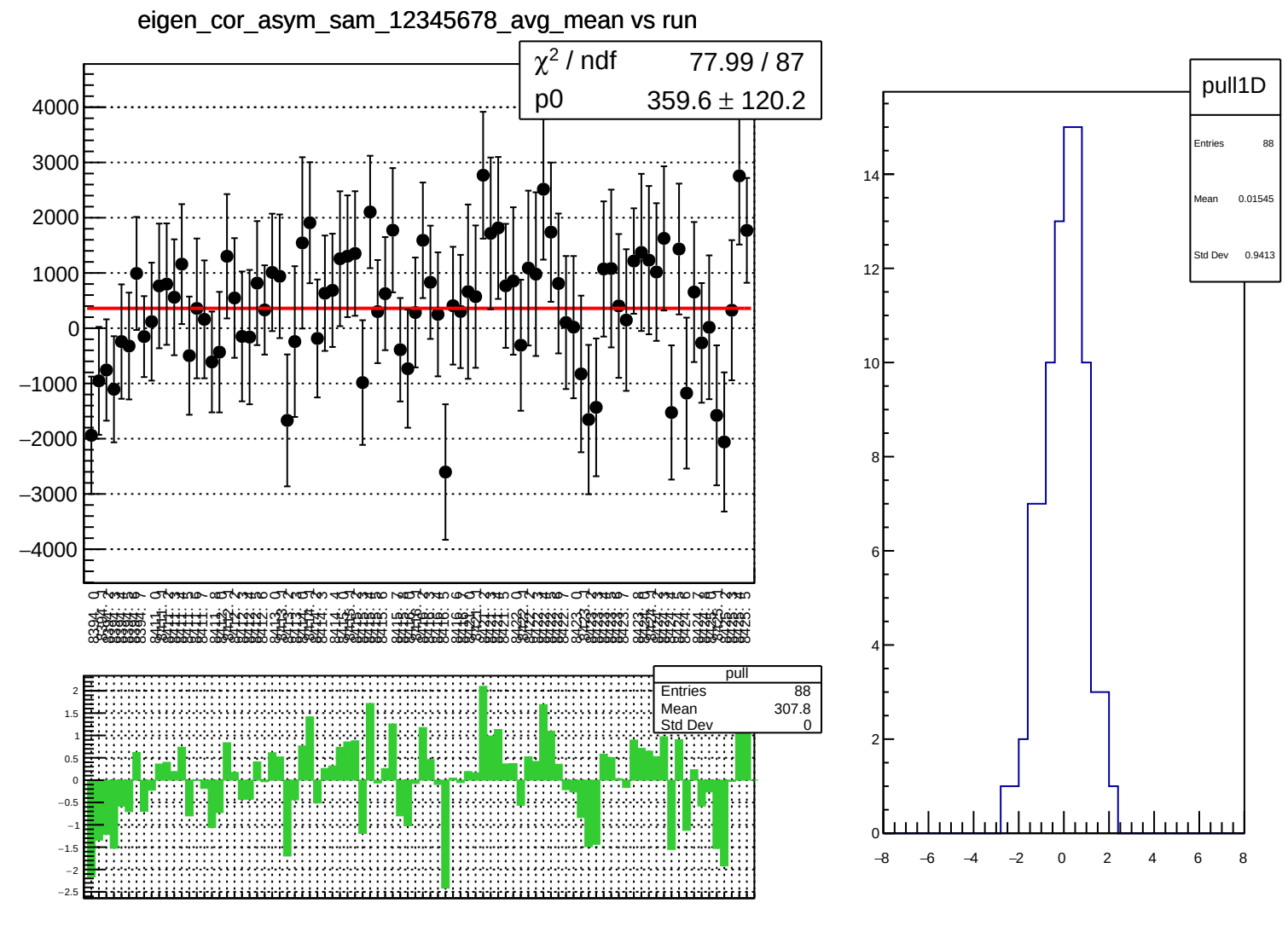

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 77.99 / 87
p0 359.6 ± 120.2
pull
Entries 88
Mean 307.8
Std Dev 0
pull1D
Entries 88
Mean 0.01545
Std Dev 0.9413

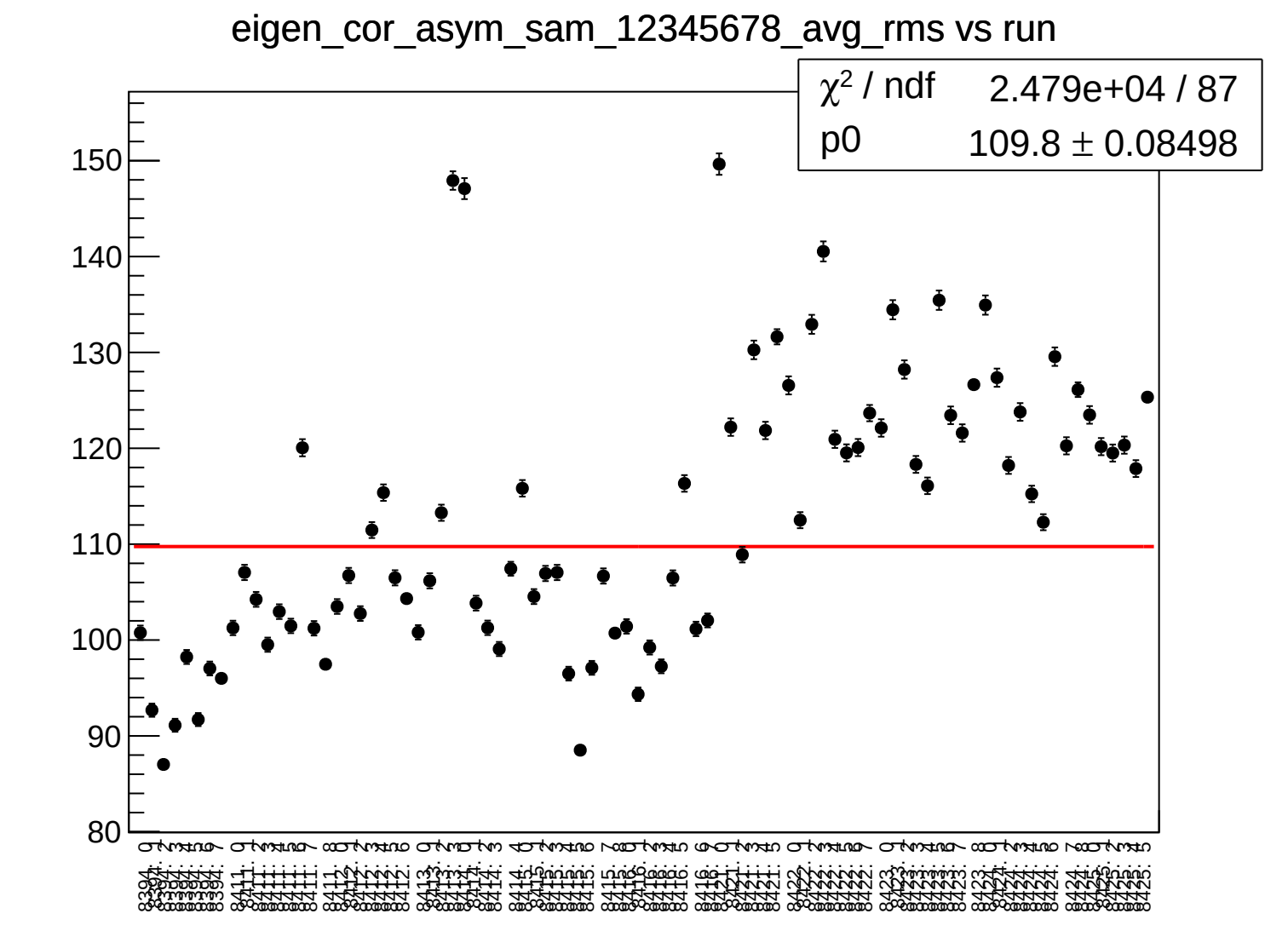

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.479e+04 / 87
p0 109.8 ± 0.08498
150
140
130
120
110
100
90
80

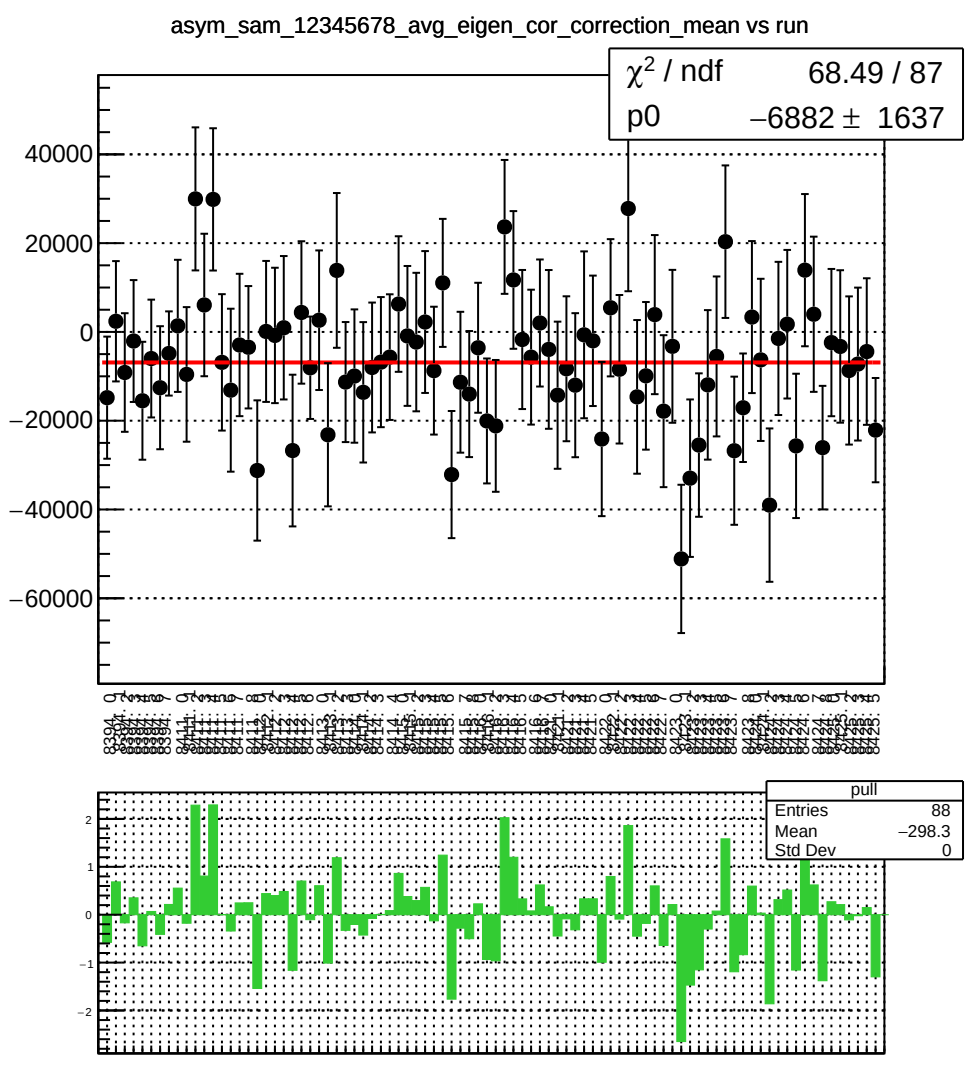

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 68.49 / 87
p0 −6882 ± 1637
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −298.3
Std Dev 0
2
1
0
−1
−2

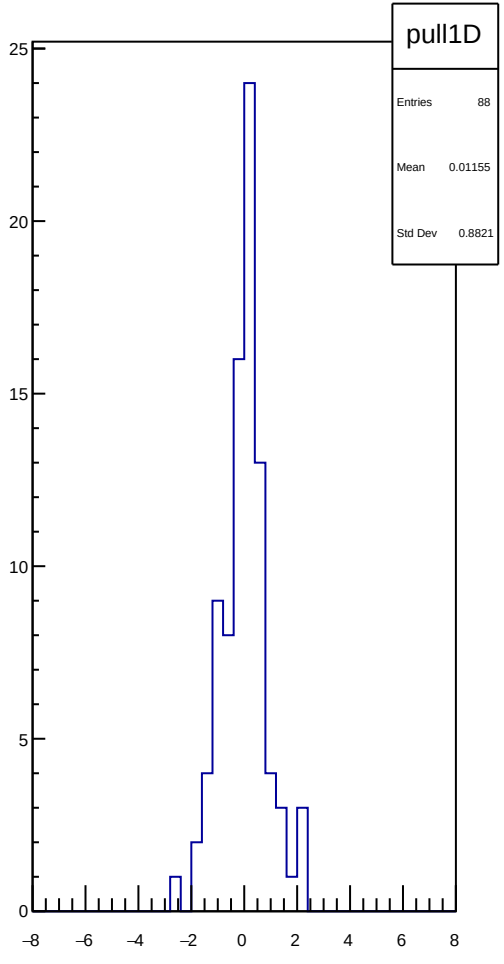

pull1D
Entries 88
Mean 0.01155
Std Dev 0.8821
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

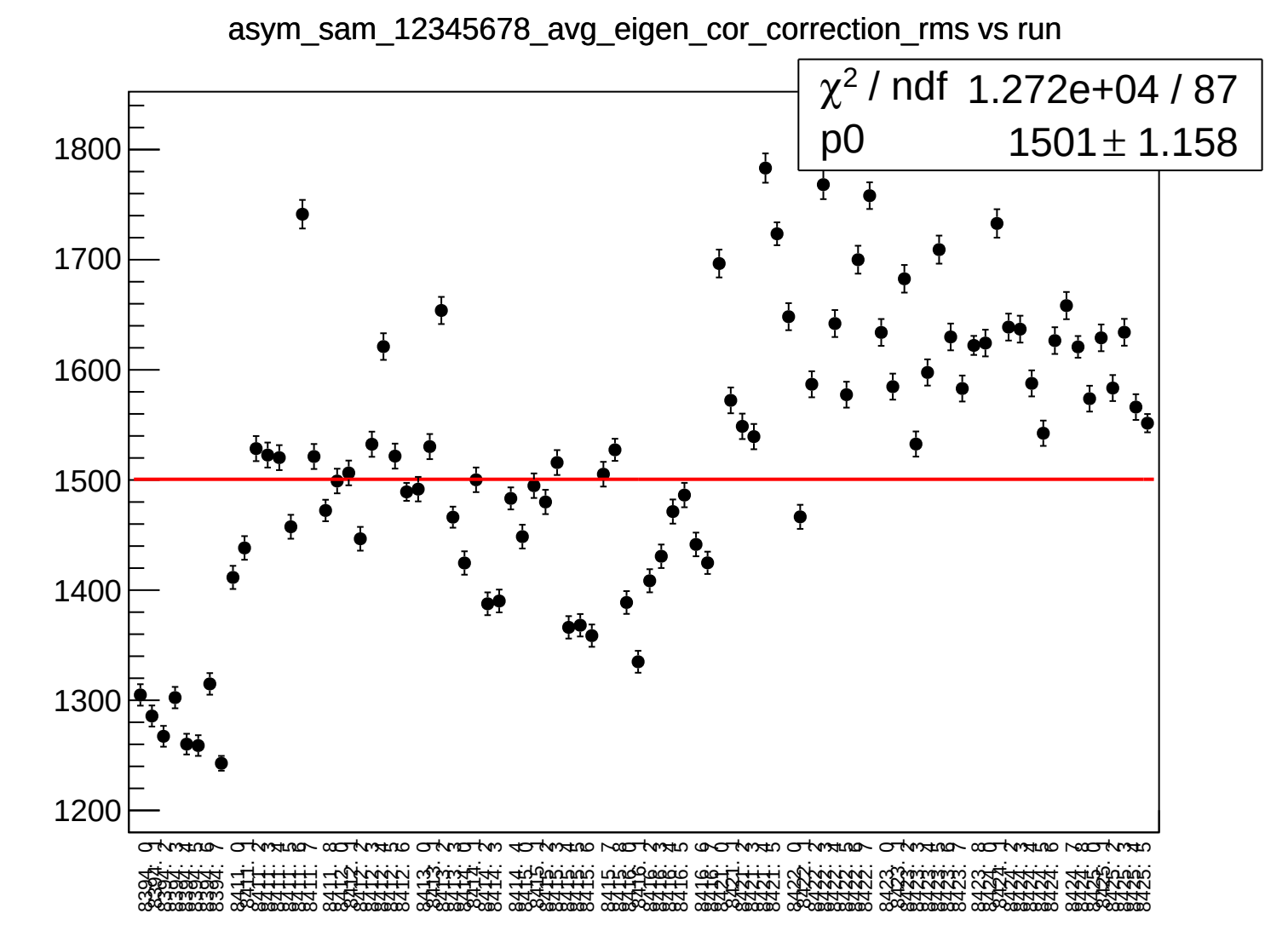

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 1.272e+04 / 87
p0 1501 ± 1.158
1800
1700
1600
1500
1400
1300
1200

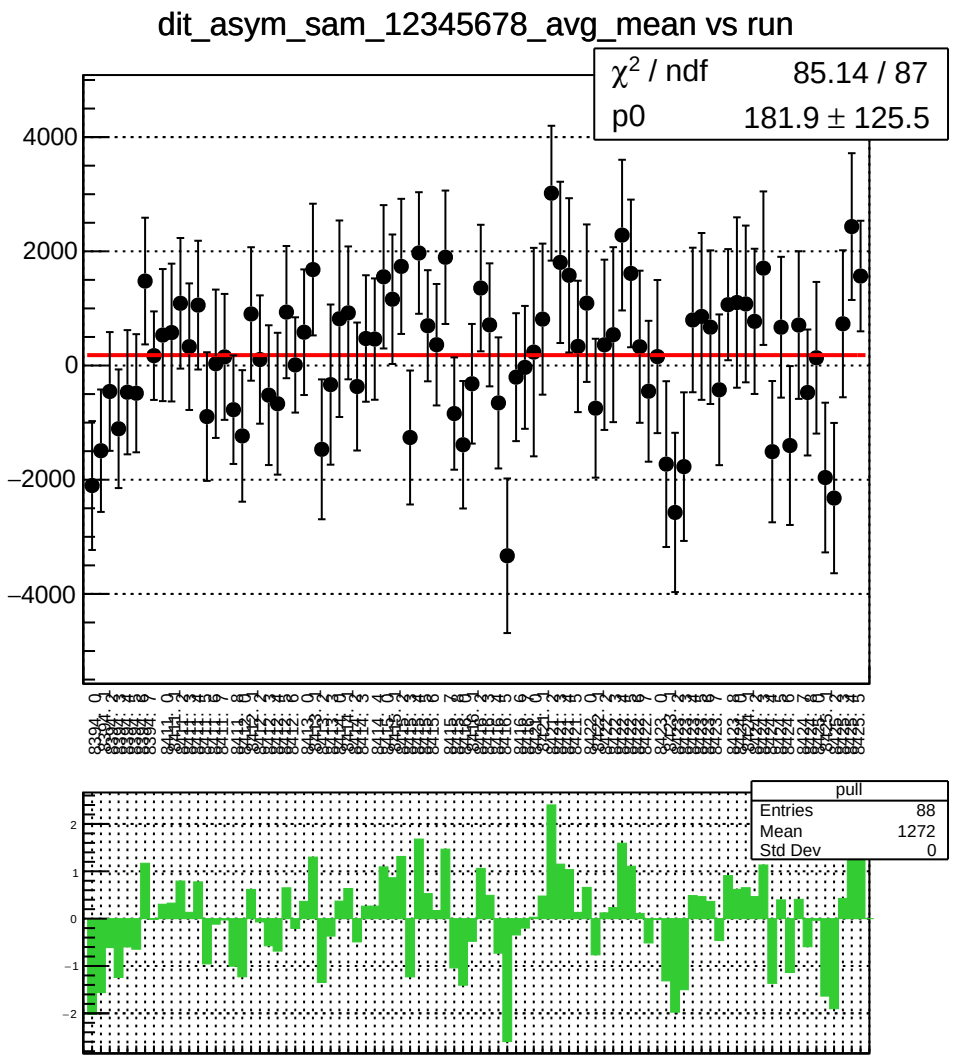

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 77.99 / 87
p0 359.6 ± 120.2
pull
Entries 88
Mean 307.8
Std Dev 0
pull1D
Entries 88
Mean 0.01545
Std Dev 0.9413

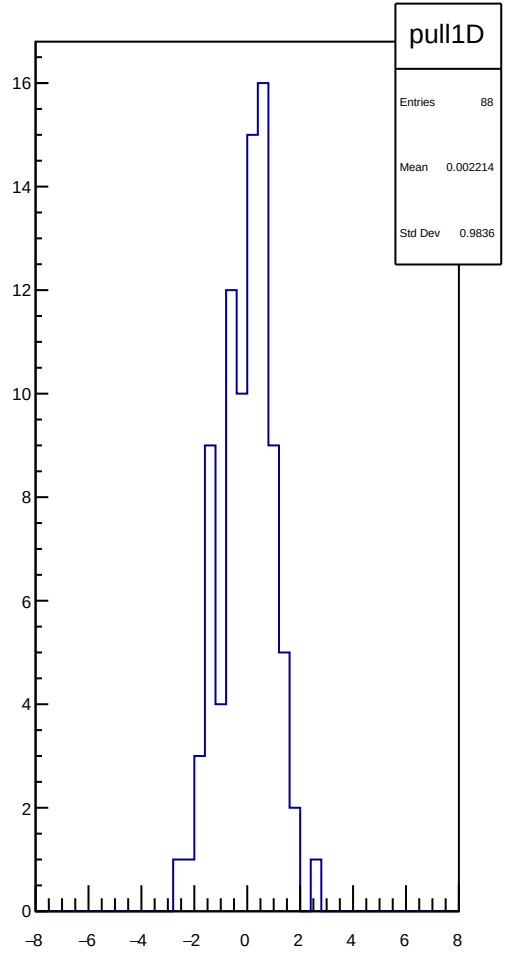

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.479e+04 / 87
p0 109.8 ± 0.08498
150
140
130
120
110
100
90
80

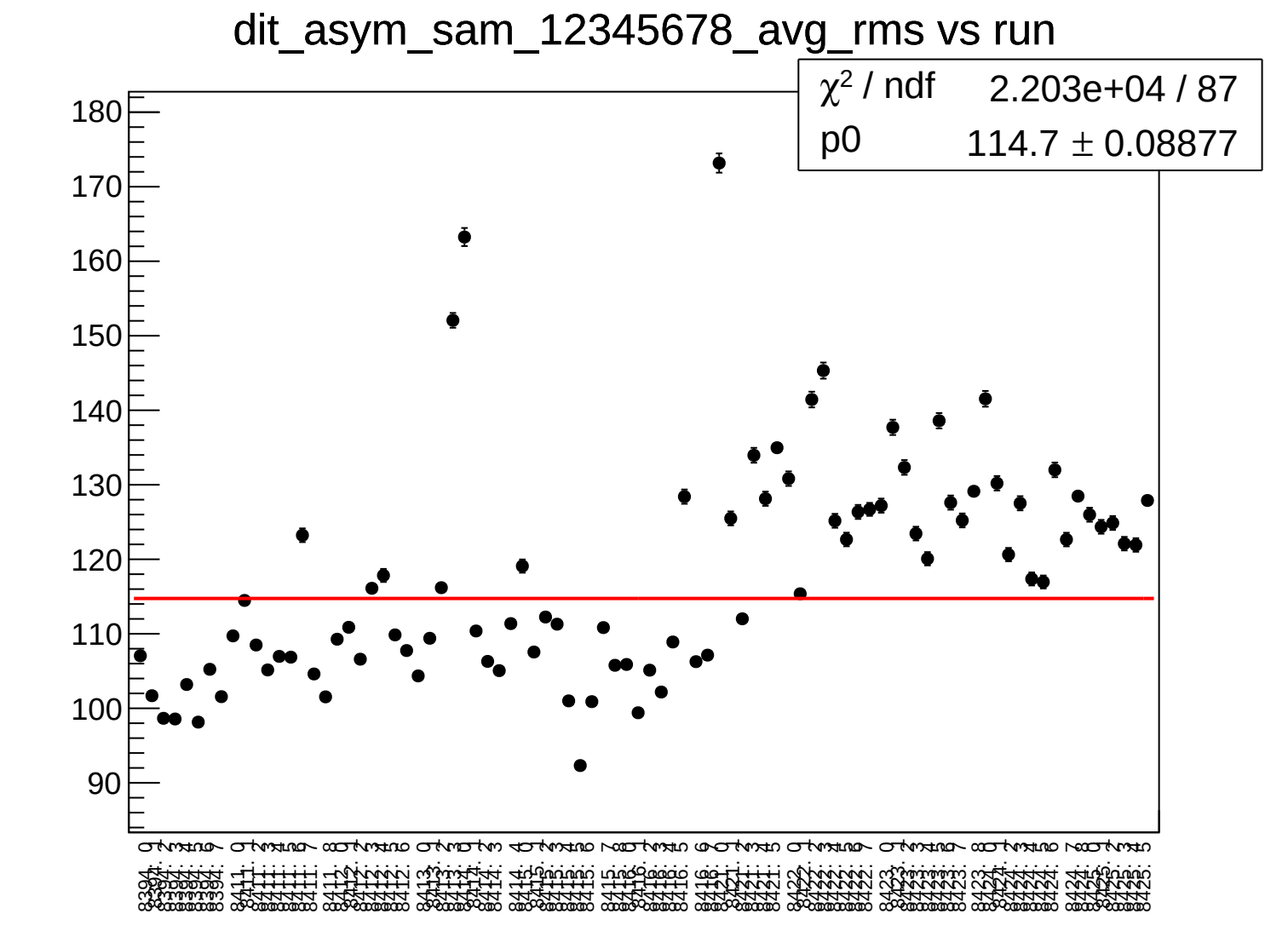

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 68.49 / 87
p0 −6882 ± 1637
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −298.3
Std Dev 0
2
1
0
−1
−2

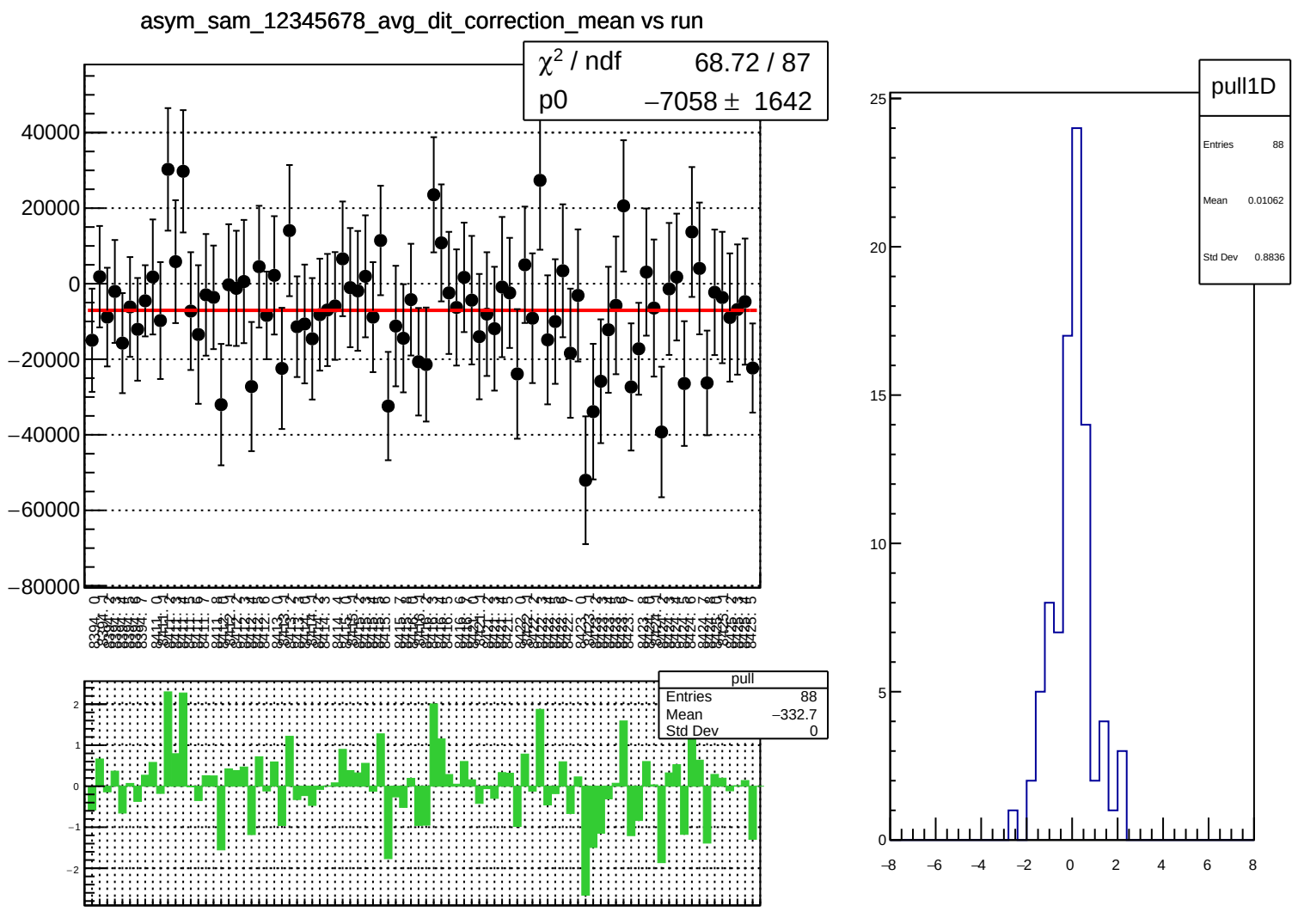

pull1D
Entries 88
Mean 0.01155
Std Dev 0.8821
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

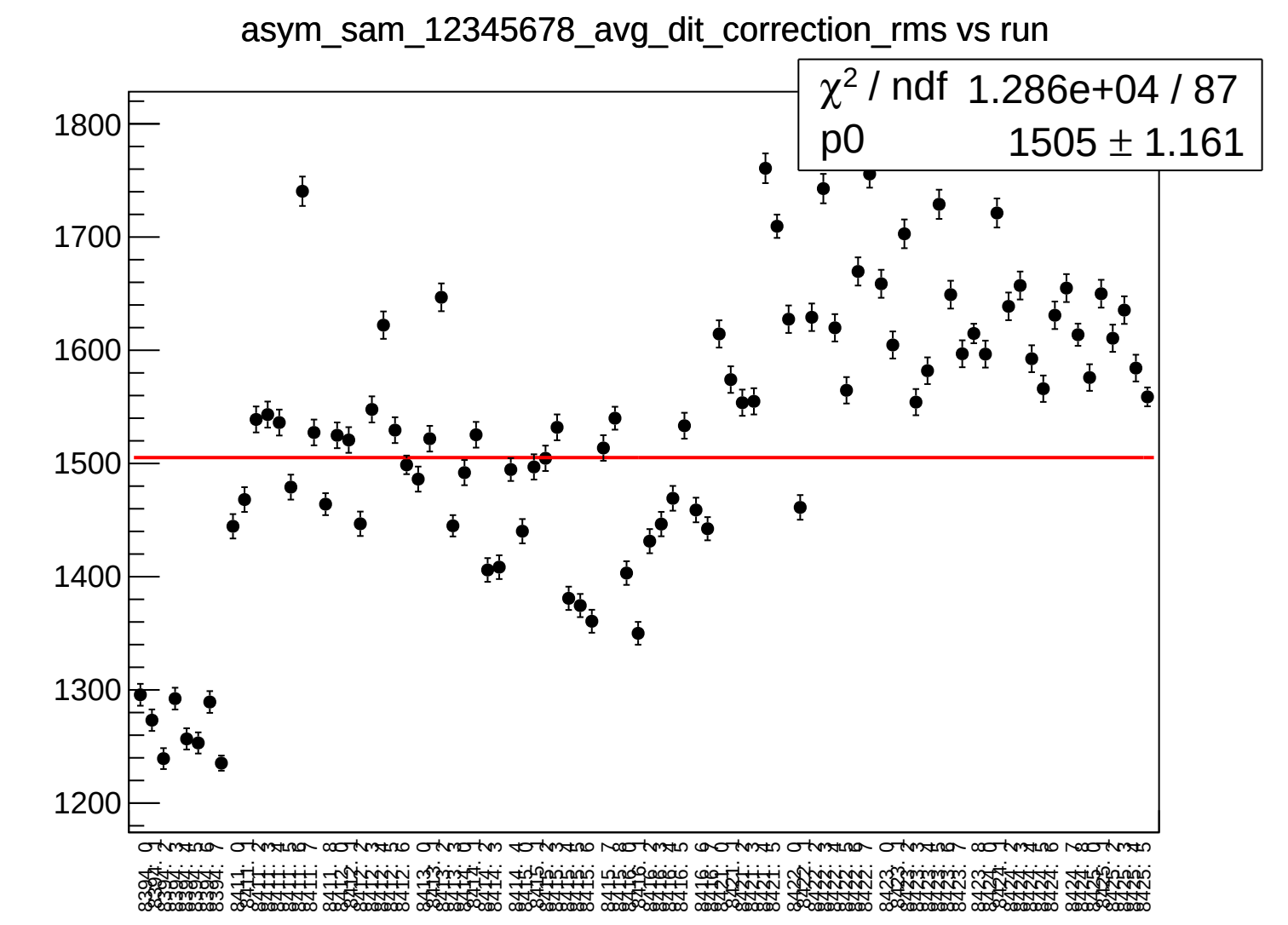

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.272e+04 / 87
p0 1501 ± 1.158
1800
1700
1600
1500
1400
1300
1200

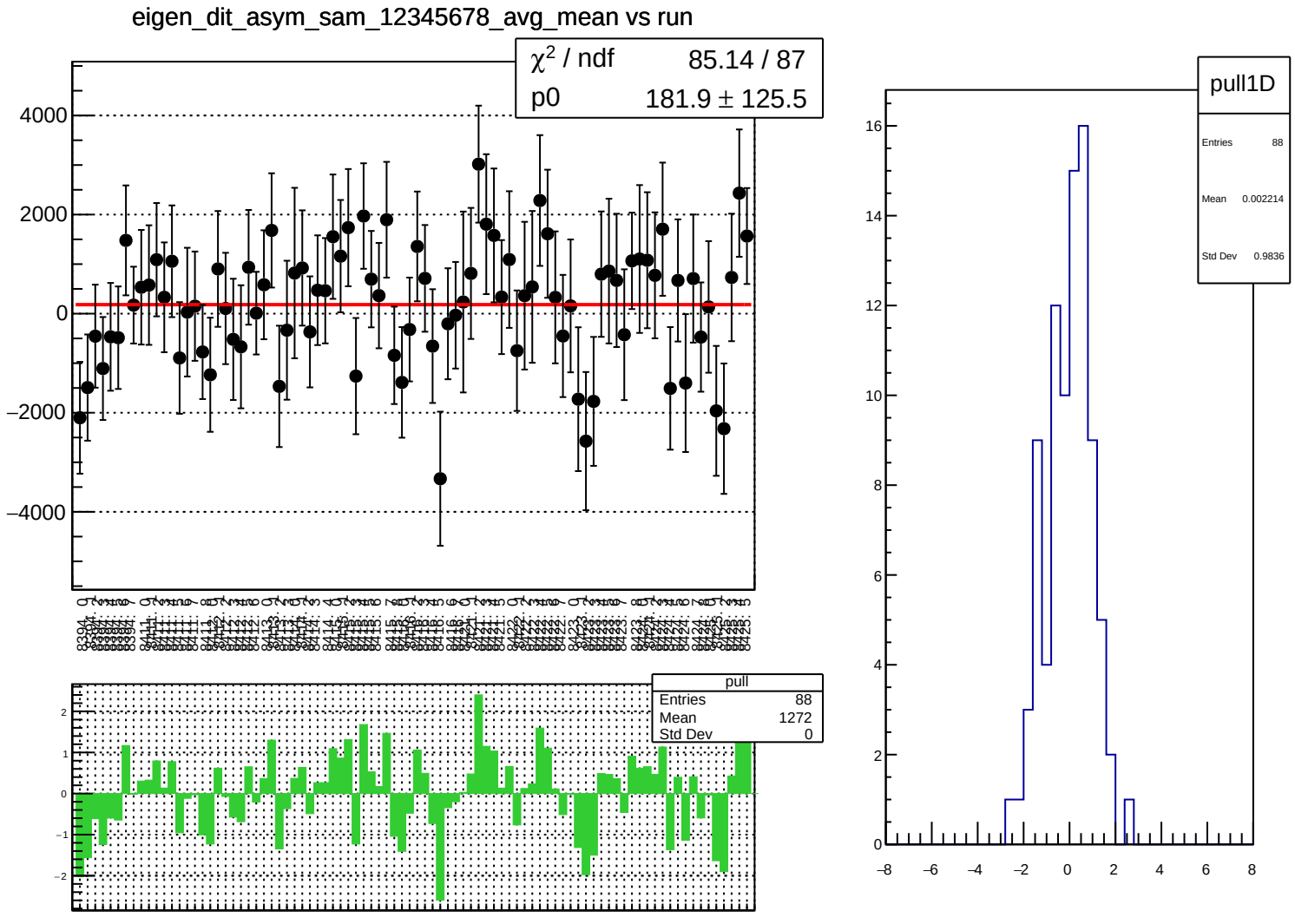

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 85.14 / 87
p0 181.9 ± 125.5
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 1272
Std Dev 0
2
1
0
−1
−2

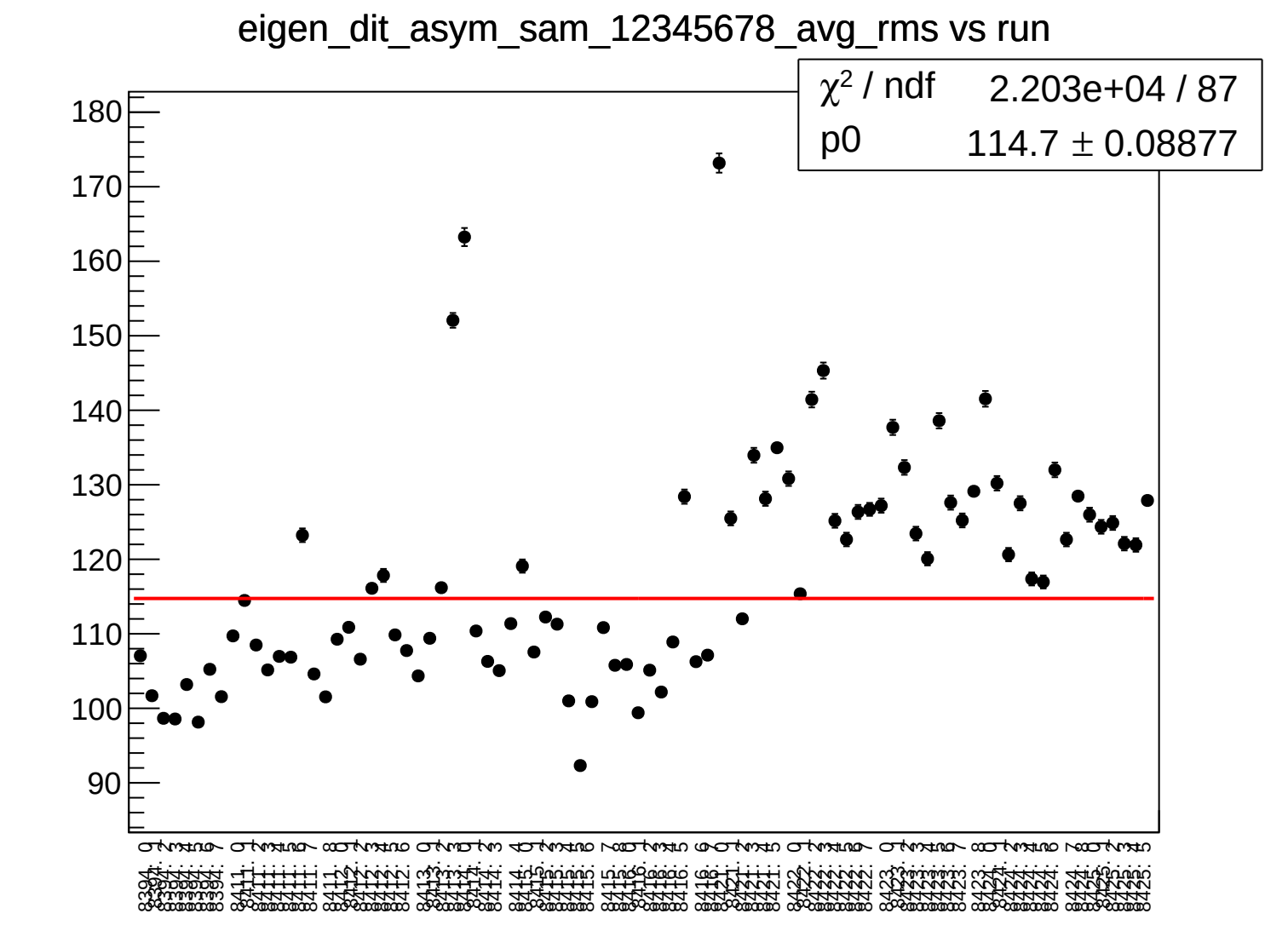

pull1D
Entries 88
Mean 0.002214
Std Dev 0.9836
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

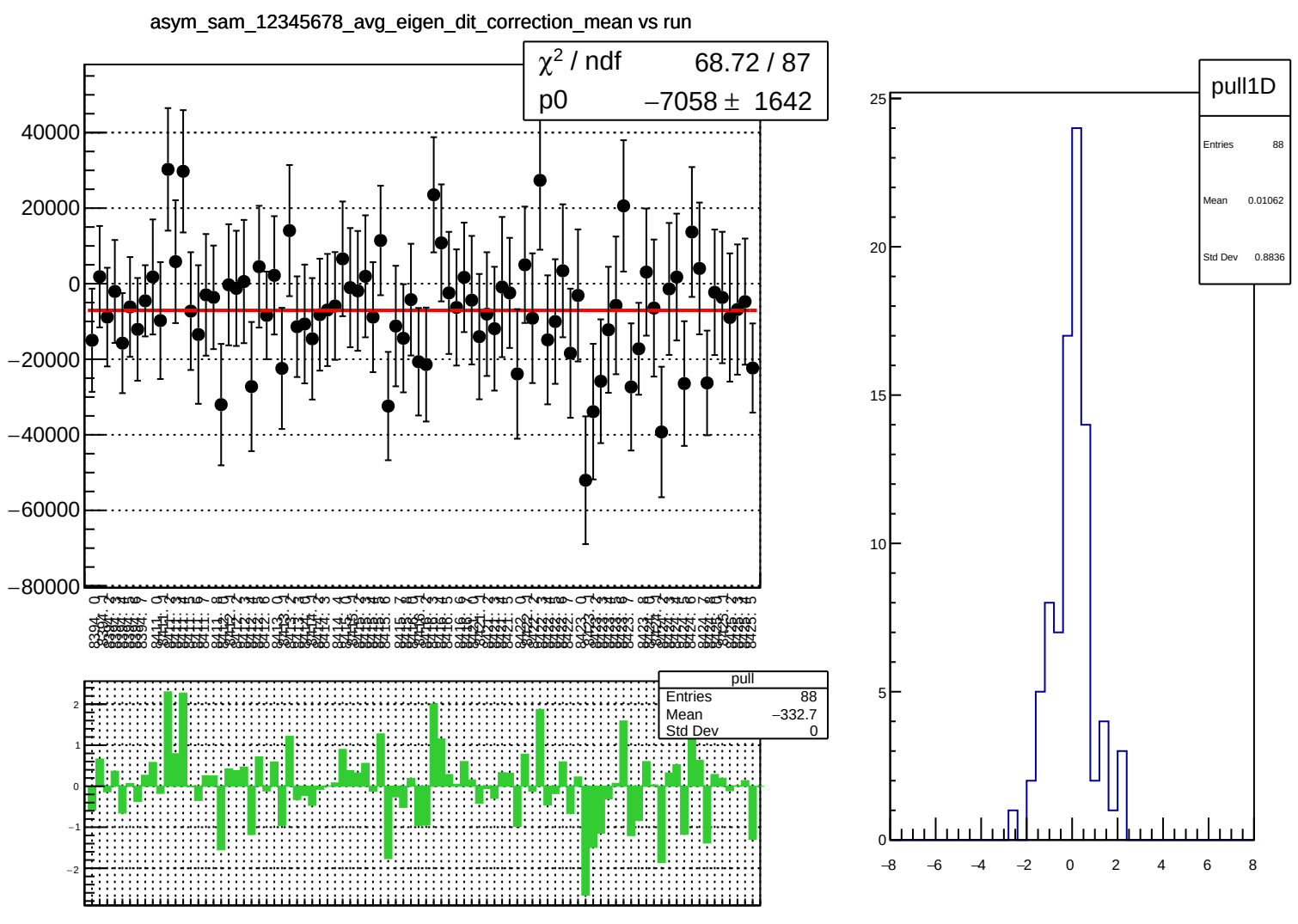

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.203e+04 / 87
p0 114.7 ± 0.08877
180
170
160
150
140
130
120
110
100
90

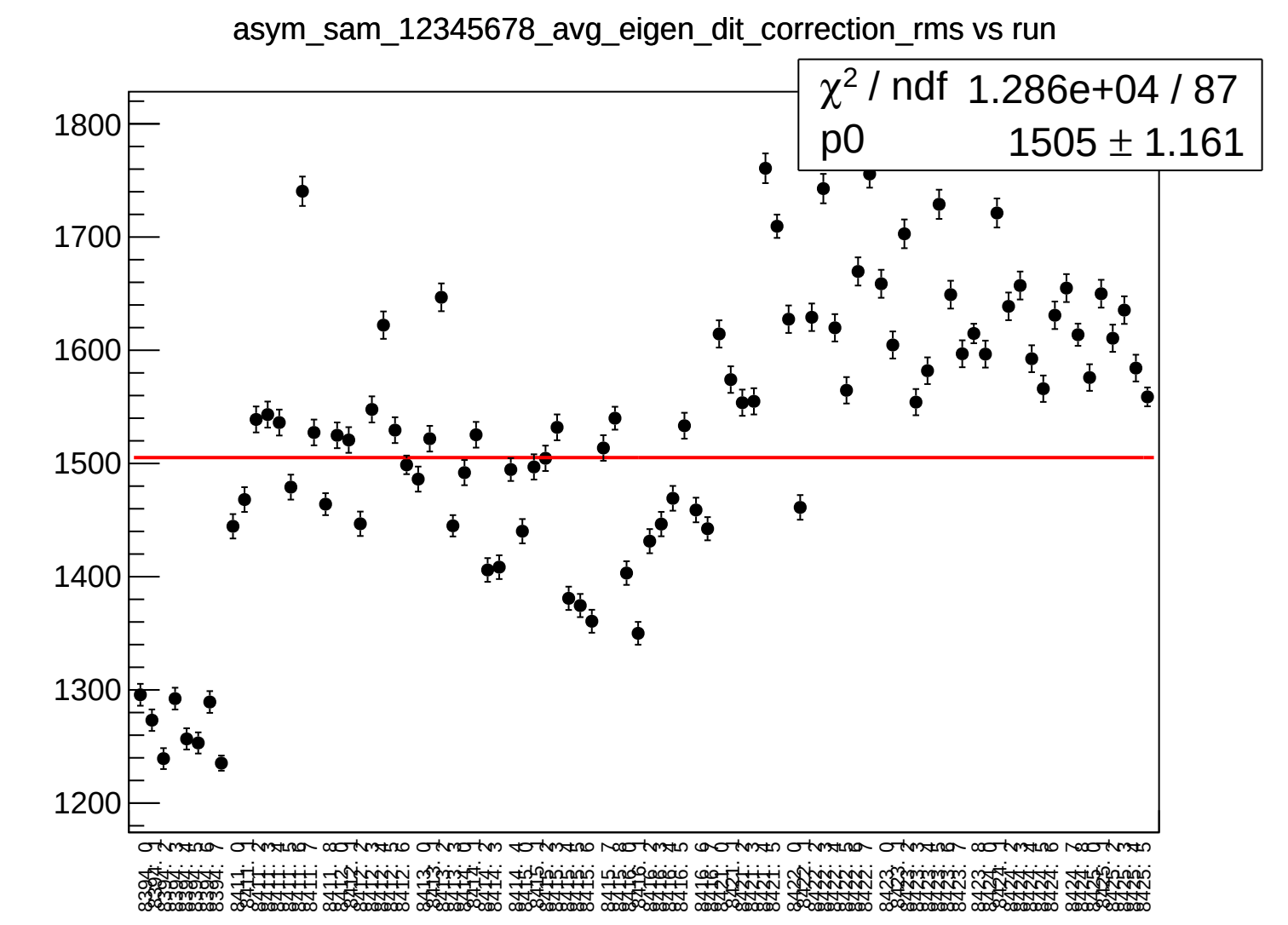

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 68.72 / 87
p0 −7058 ± 1642
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −332.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01062
Std Dev 0.8836
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

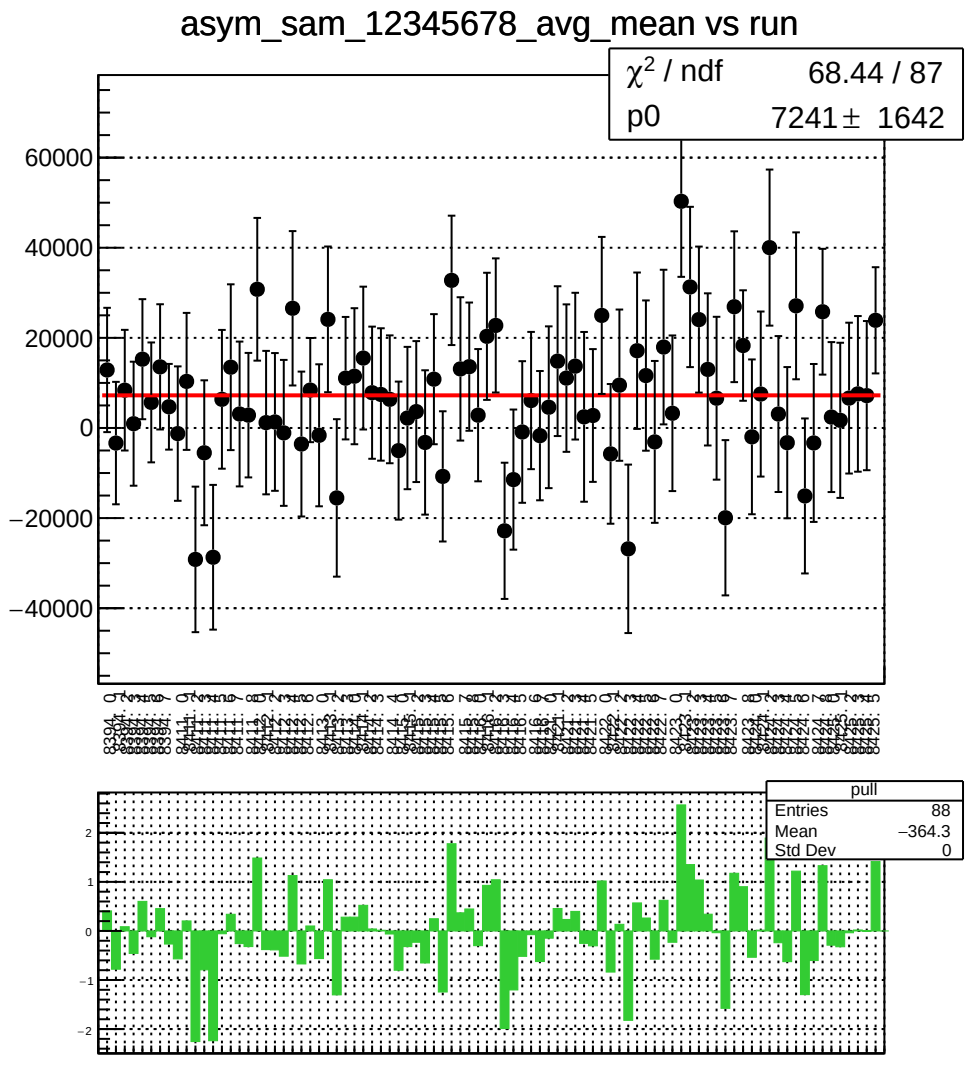

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 1.286e+04 / 87
p0 1505 ± 1.161
1800
1700
1600
1500
1400
1300
1200

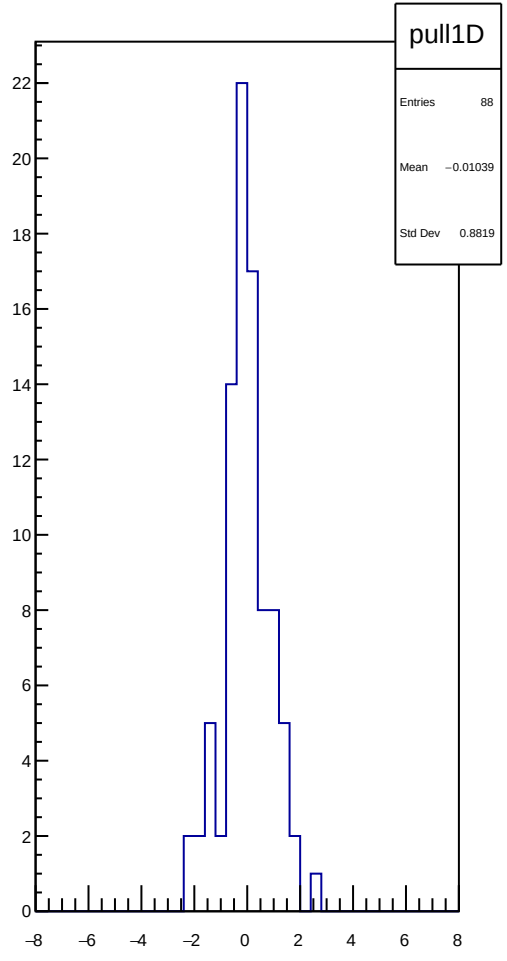

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 85.14 / 87
p0 181.9 ± 125.5
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 1272
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.002214
Std Dev 0.9836
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

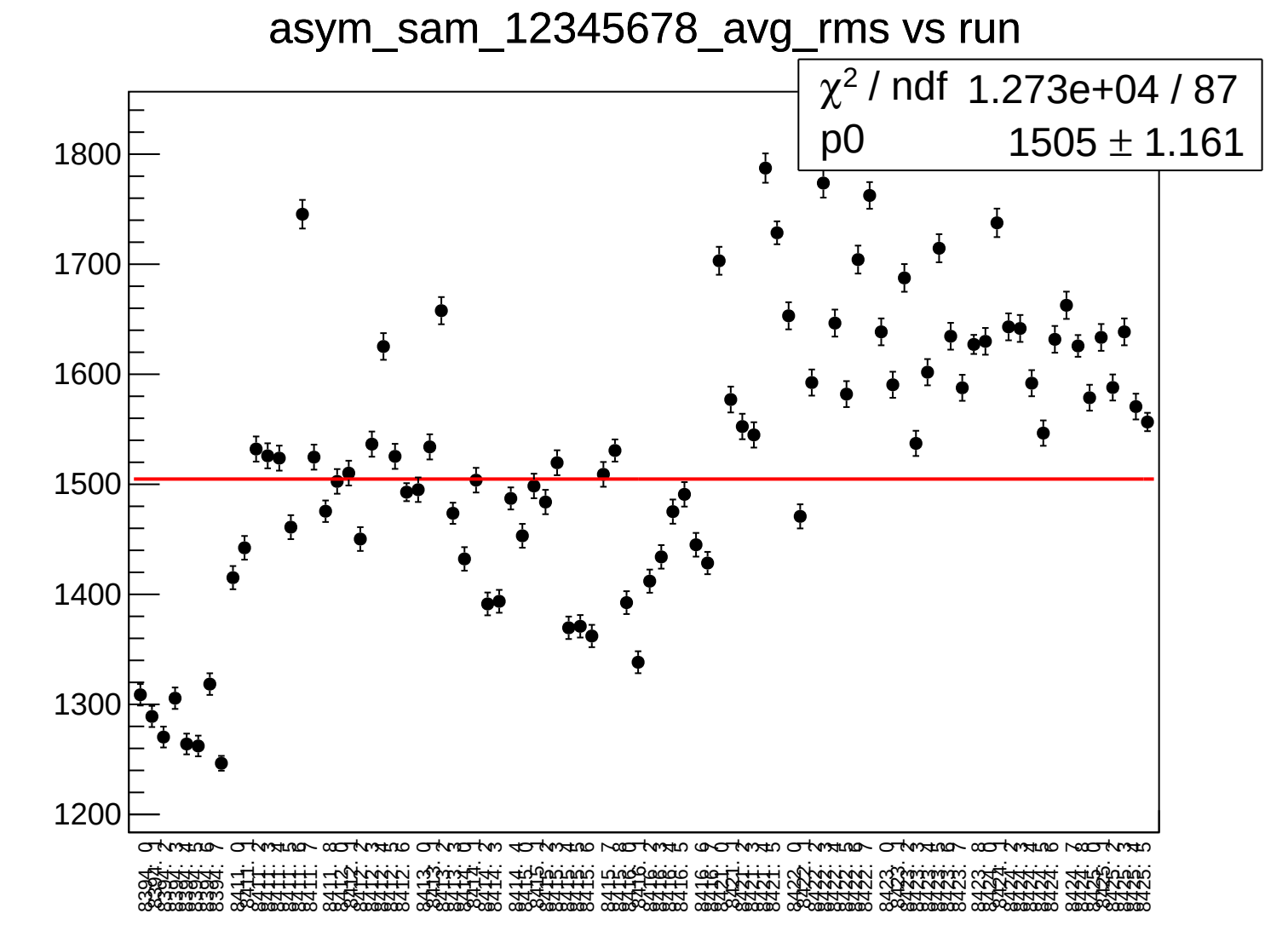

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.203e+04 / 87
p0 114.7 ± 0.08877
180
170
160
150
140
130
120
110
100
90

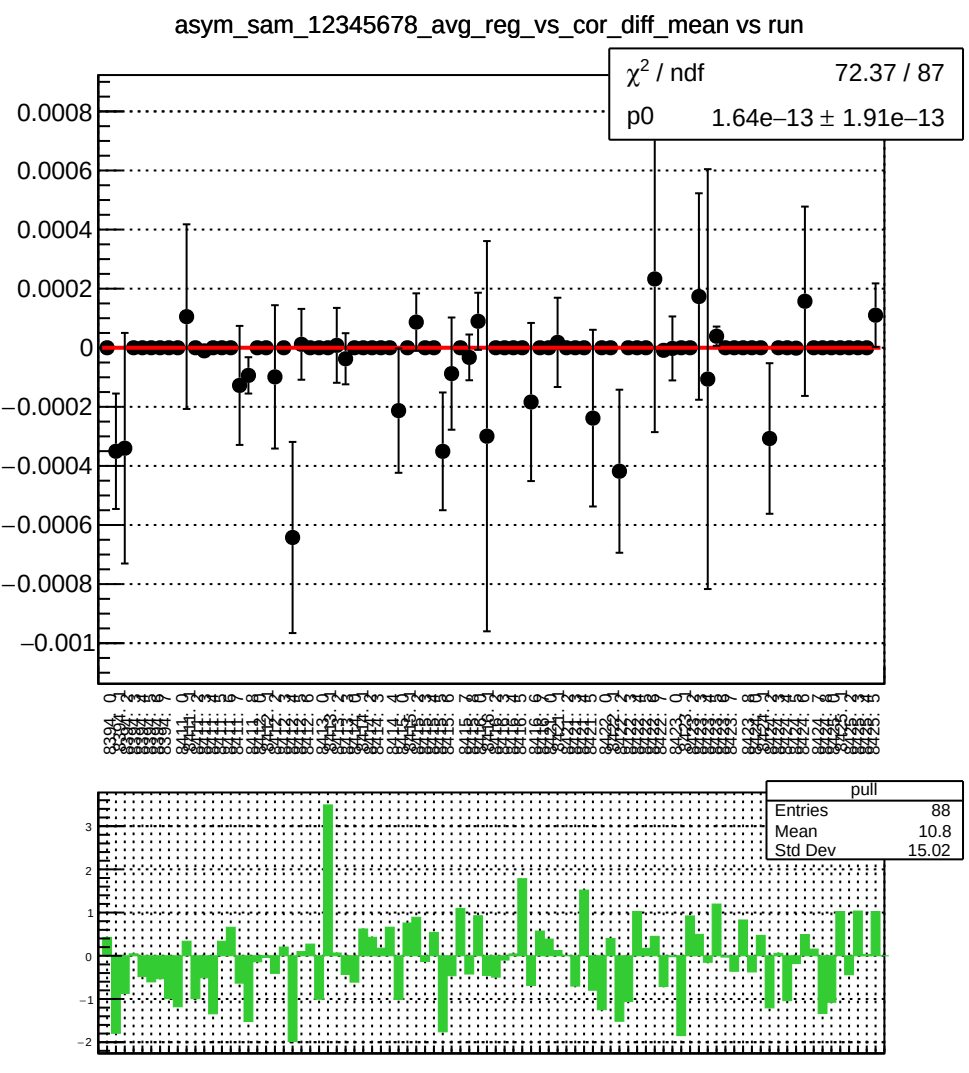

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 68.72 / 87
p0 −7058 ± 1642
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −332.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01062
Std Dev 0.8836
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

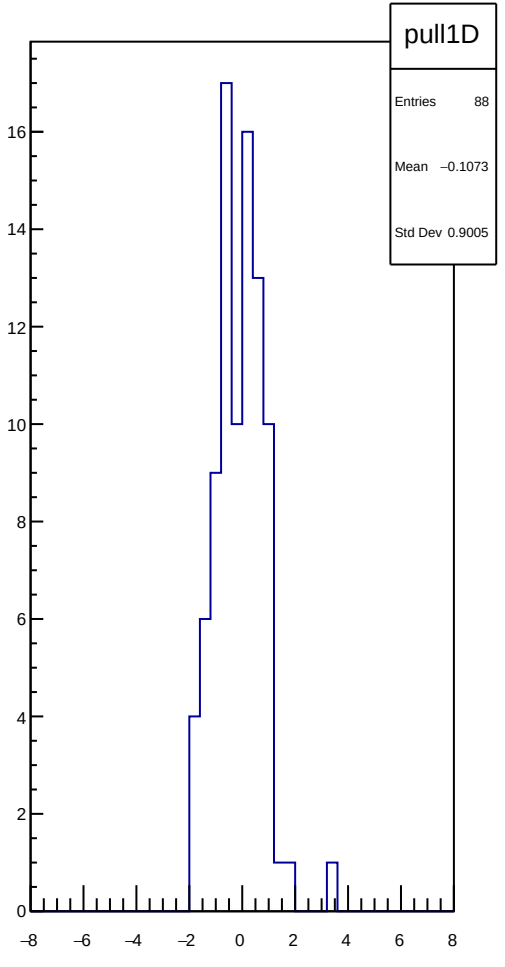

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.286e+04 / 87
p0 1505 ± 1.161
1800
1700
1600
1500
1400
1300
1200

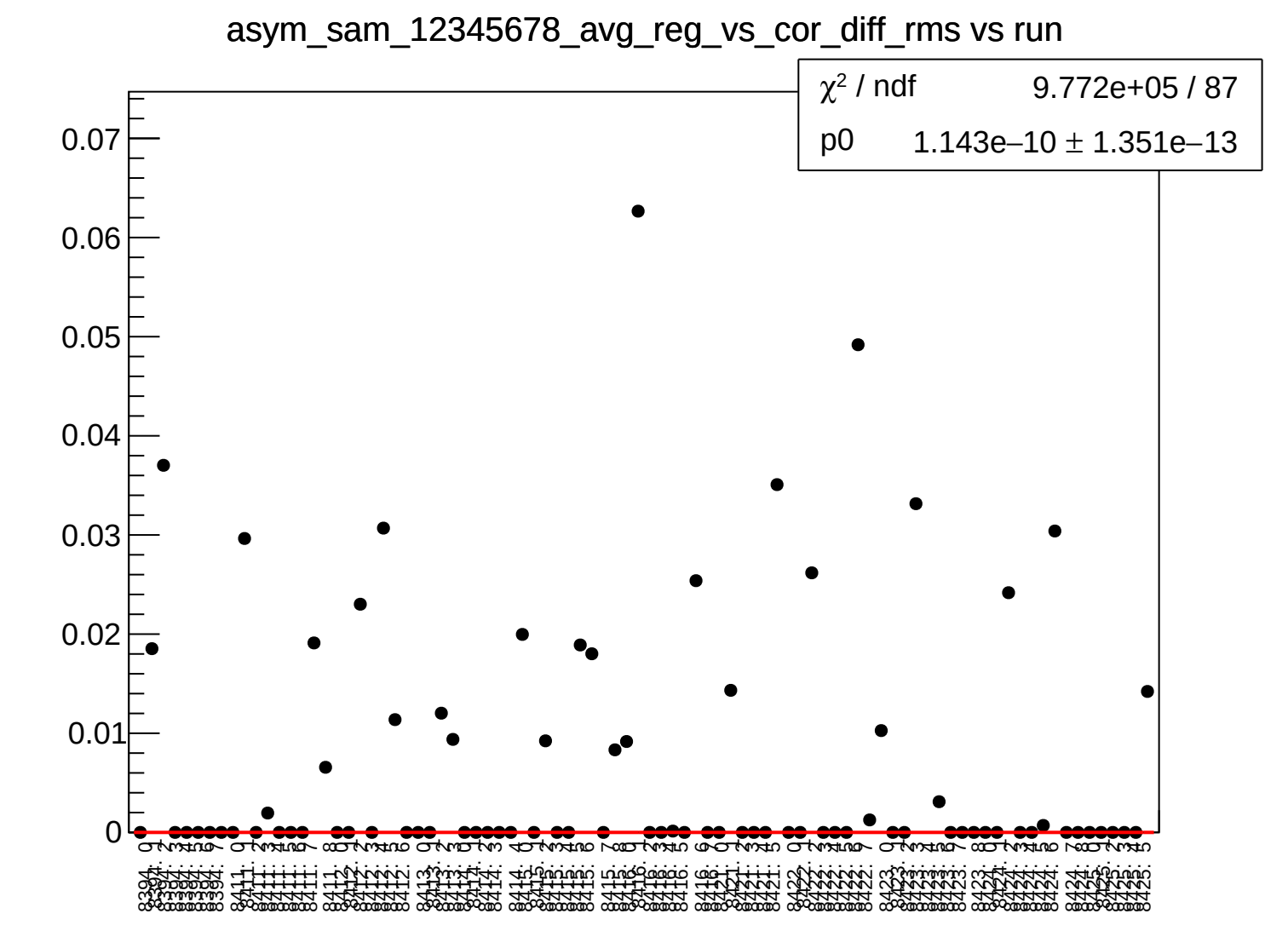

asym_sam_12345678_avg_mean vs run
χ² / ndf 68.44 / 87
p0 7241 ± 1642
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −364.3
Std Dev 0
2
1
0
−1
−2

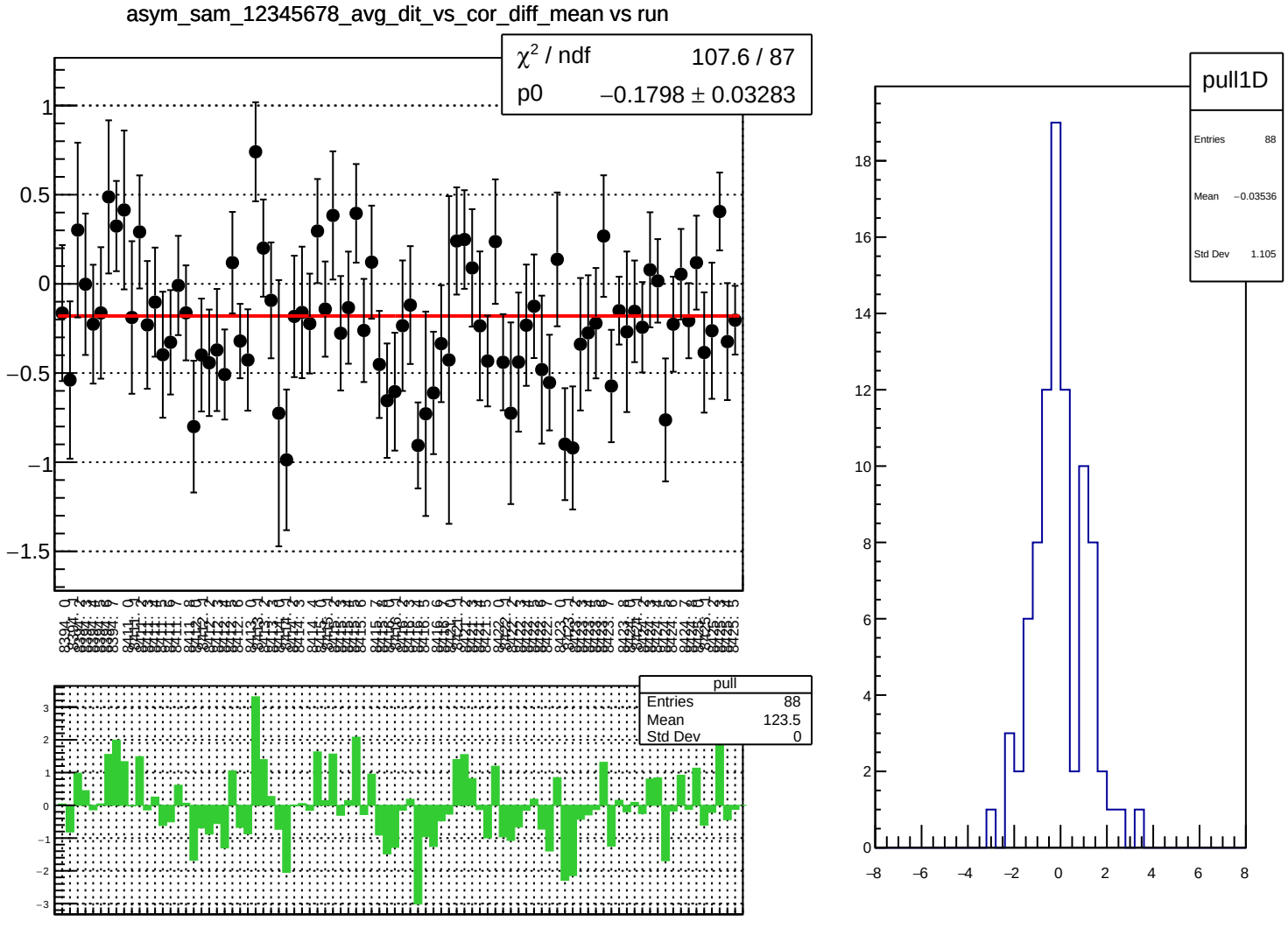

pull1D
Entries 88
Mean −0.01039
Std Dev 0.8819
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

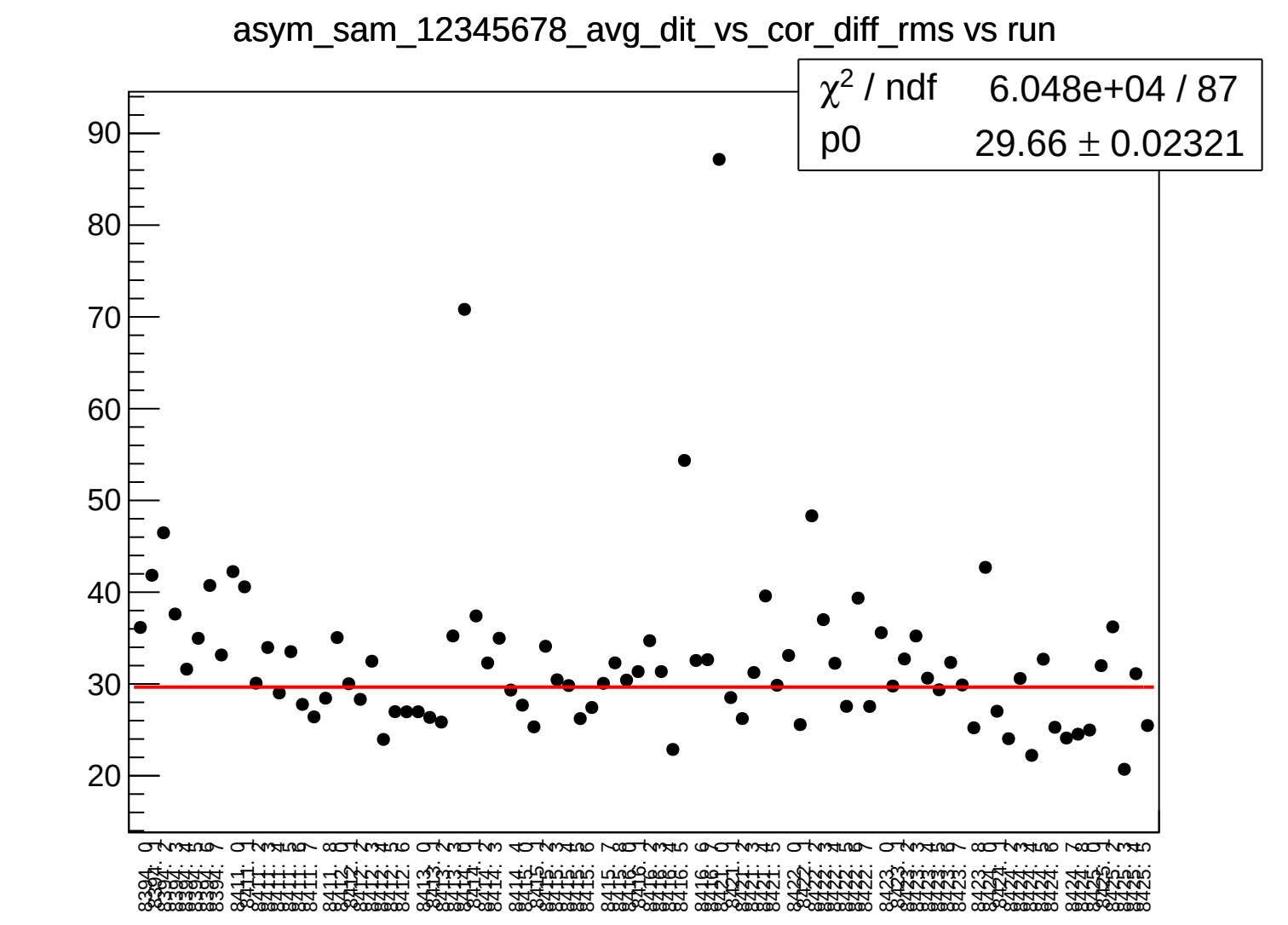

asym_sam_12345678_avg_rms vs run
χ² / ndf 1.273e+04 / 87
p0 1505 ± 1.161
1800
1700
1600
1500
1400
1300
1200

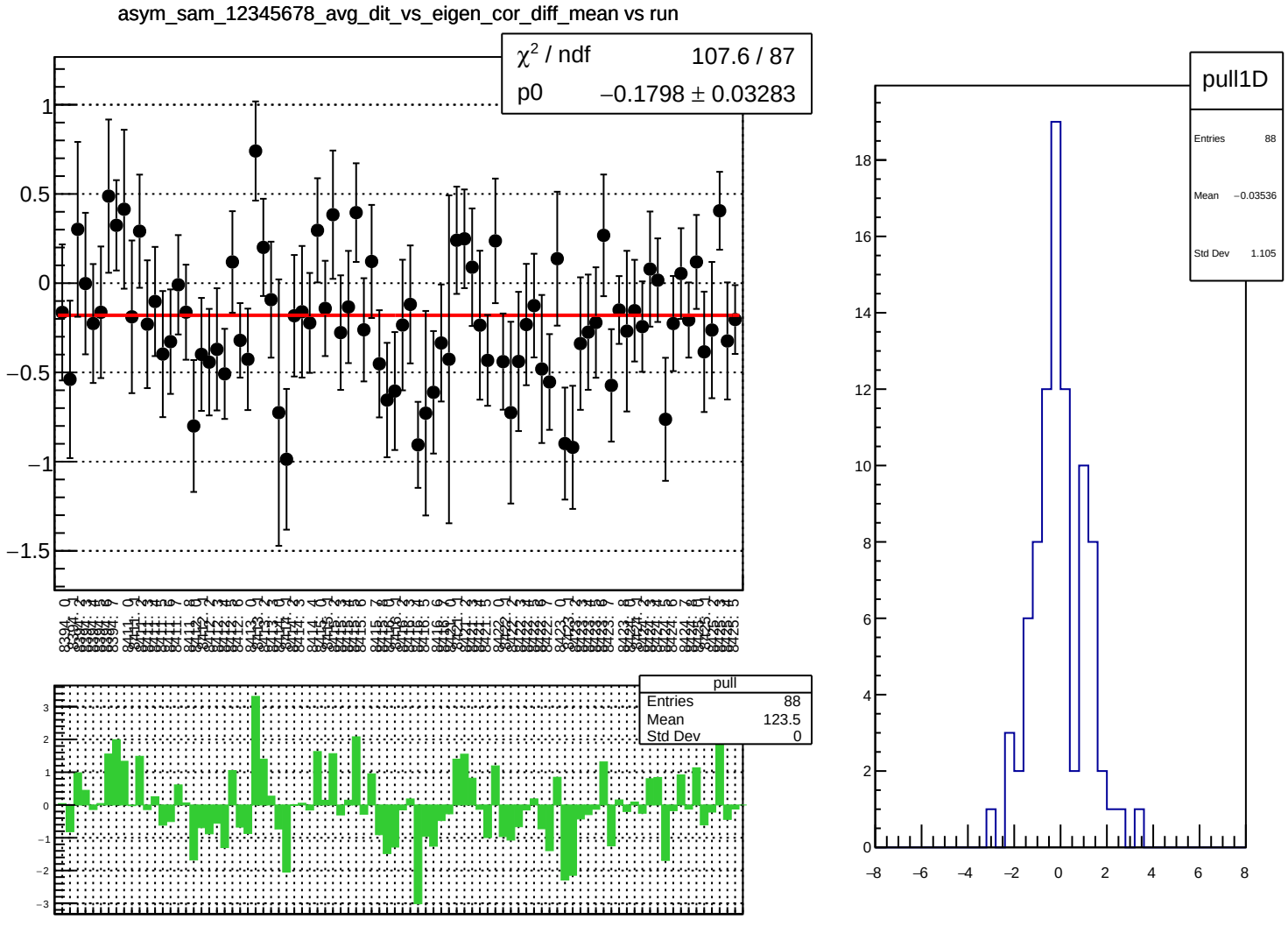

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 72.37 / 87
p0 1.64e−13 ± 1.91e−13
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 88
Mean 10.8
Std Dev 15.02
3
2
1
0
−1
−2

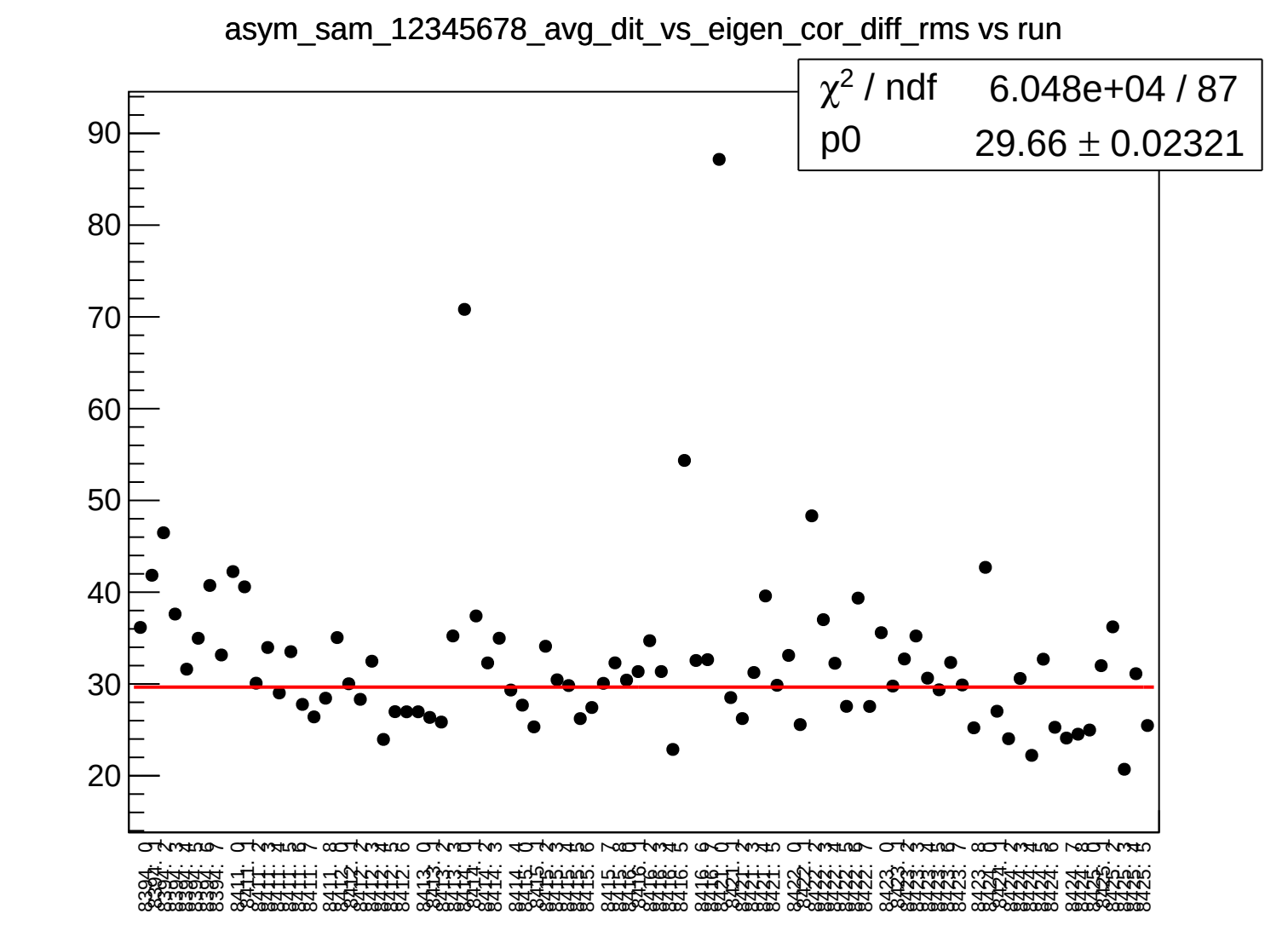

pull1D
Entries 88
Mean −0.1073
Std Dev 0.9005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

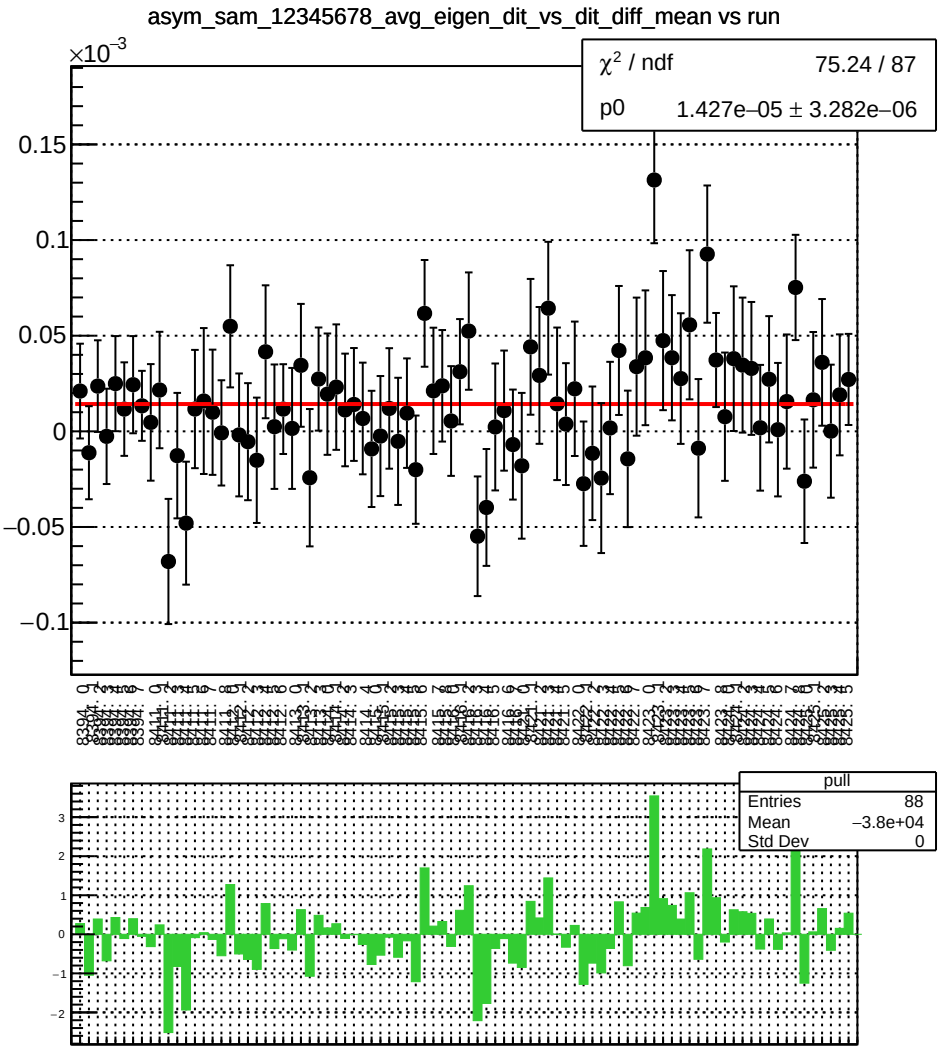

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.772e+05 / 87
p0 1.143e−10 ± 1.351e−13
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

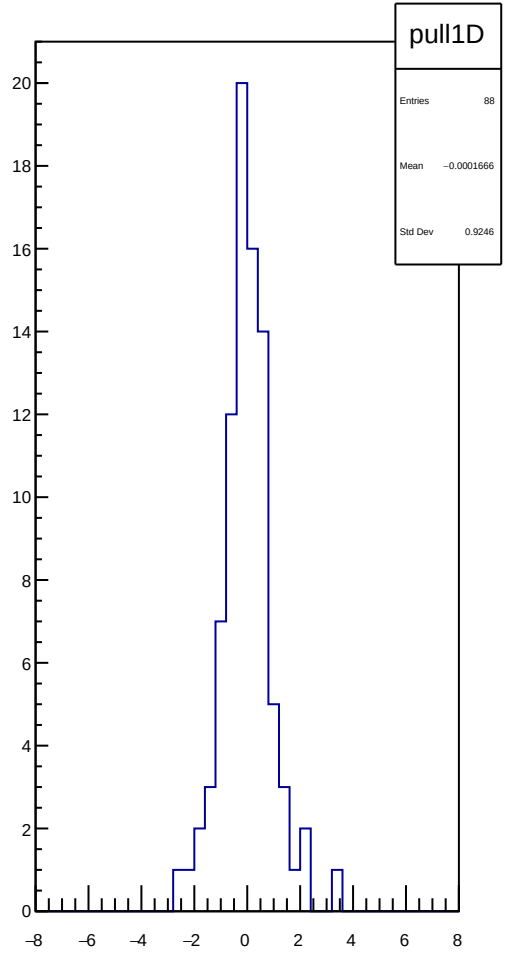

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 107.6 / 87
p0 −0.1798 ± 0.03283
pull
Entries 88
Mean 123.5
Std Dev 0
pull1D
Entries 88
Mean −0.03536
Std Dev 1.105

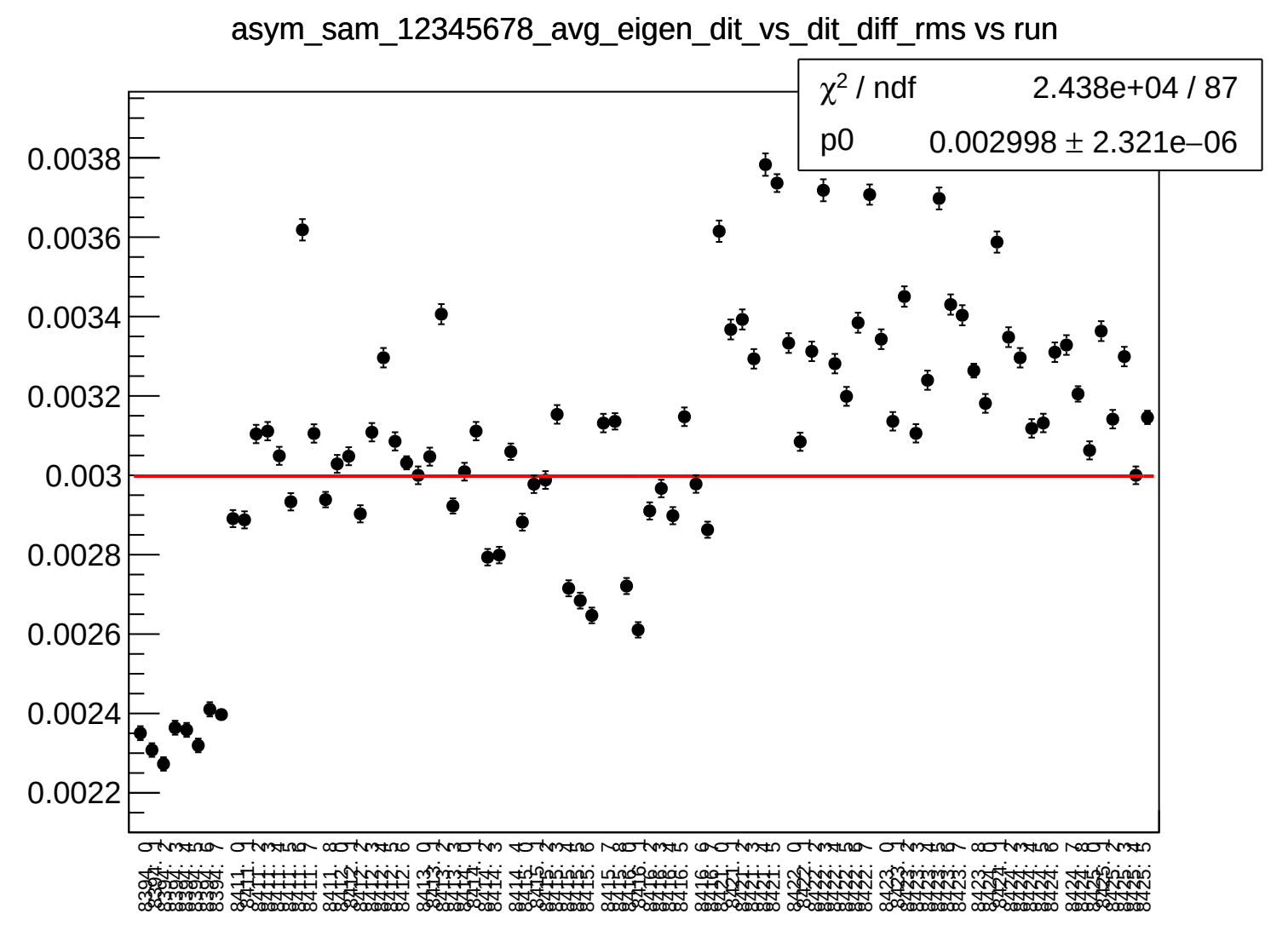

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.048e+04 / 87
p0 29.66 ± 0.02321
90
80
70
60
50
40
30
20

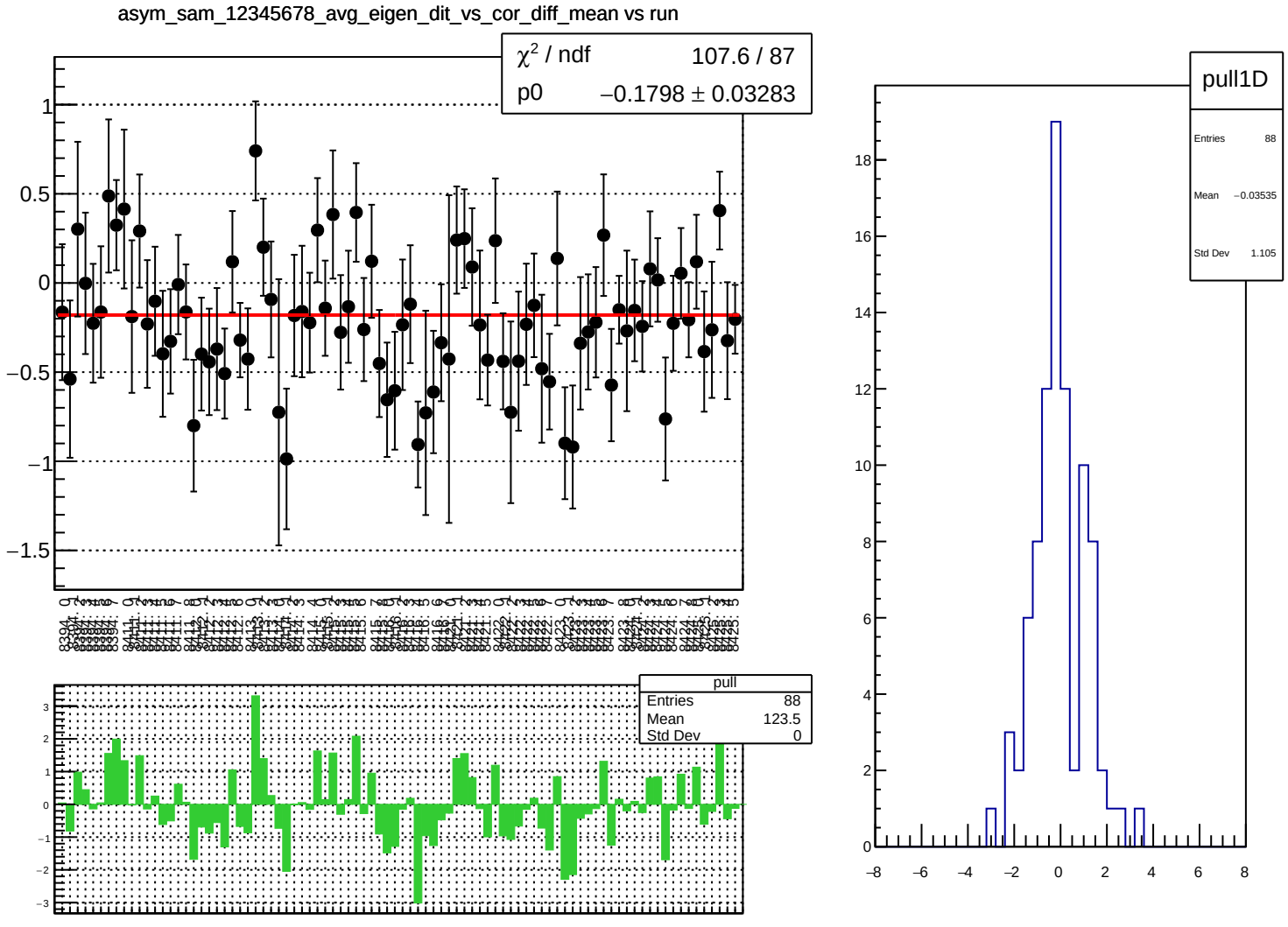

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.6 / 87
p0 −0.1798 ± 0.03283
pull
Entries 88
Mean 123.5
Std Dev 0
pull1D
Entries 88
Mean −0.03536
Std Dev 1.105

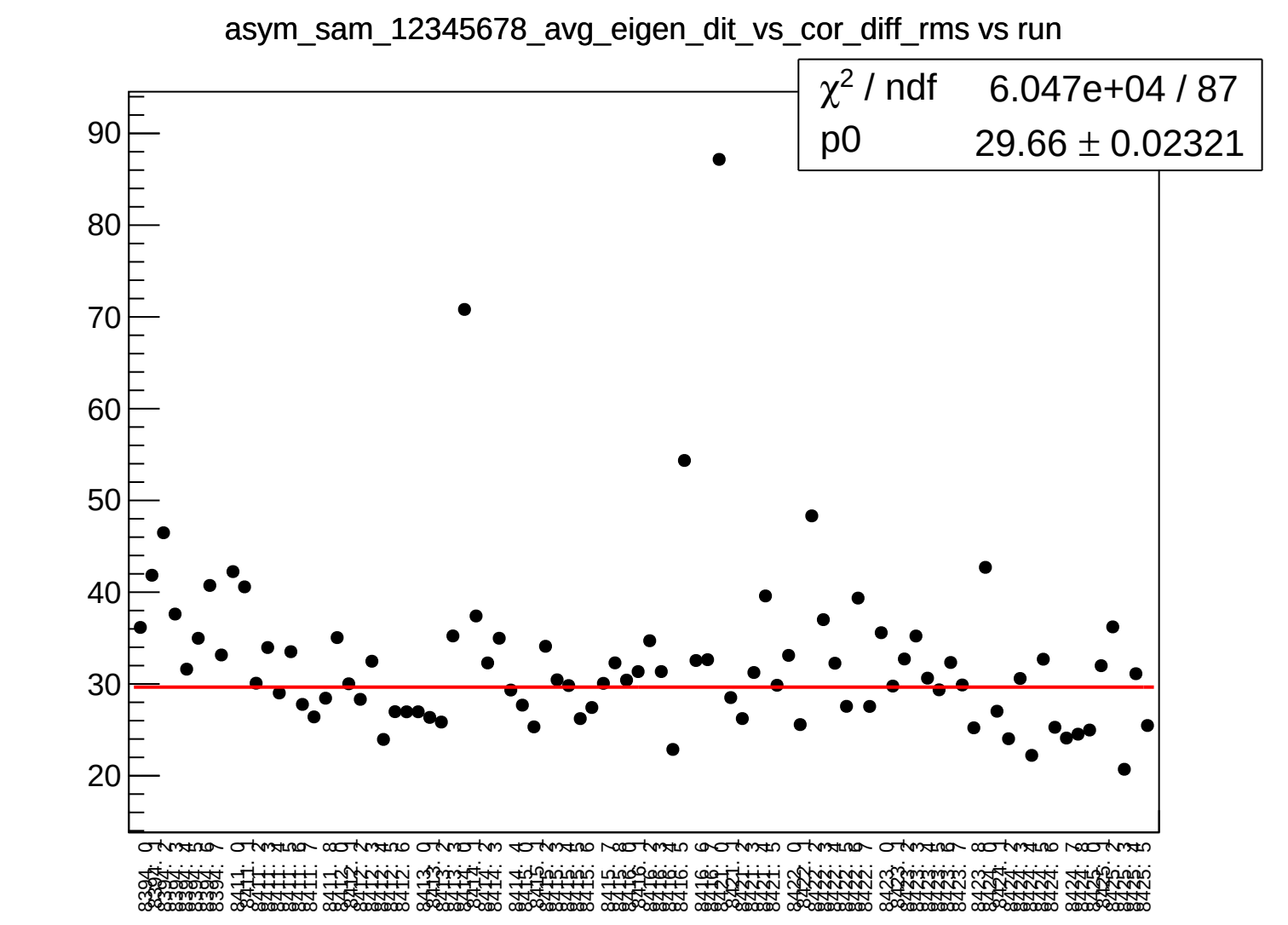

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.048e+04 / 87
p0 29.66 ± 0.02321
90
80
70
60
50
40
30
20

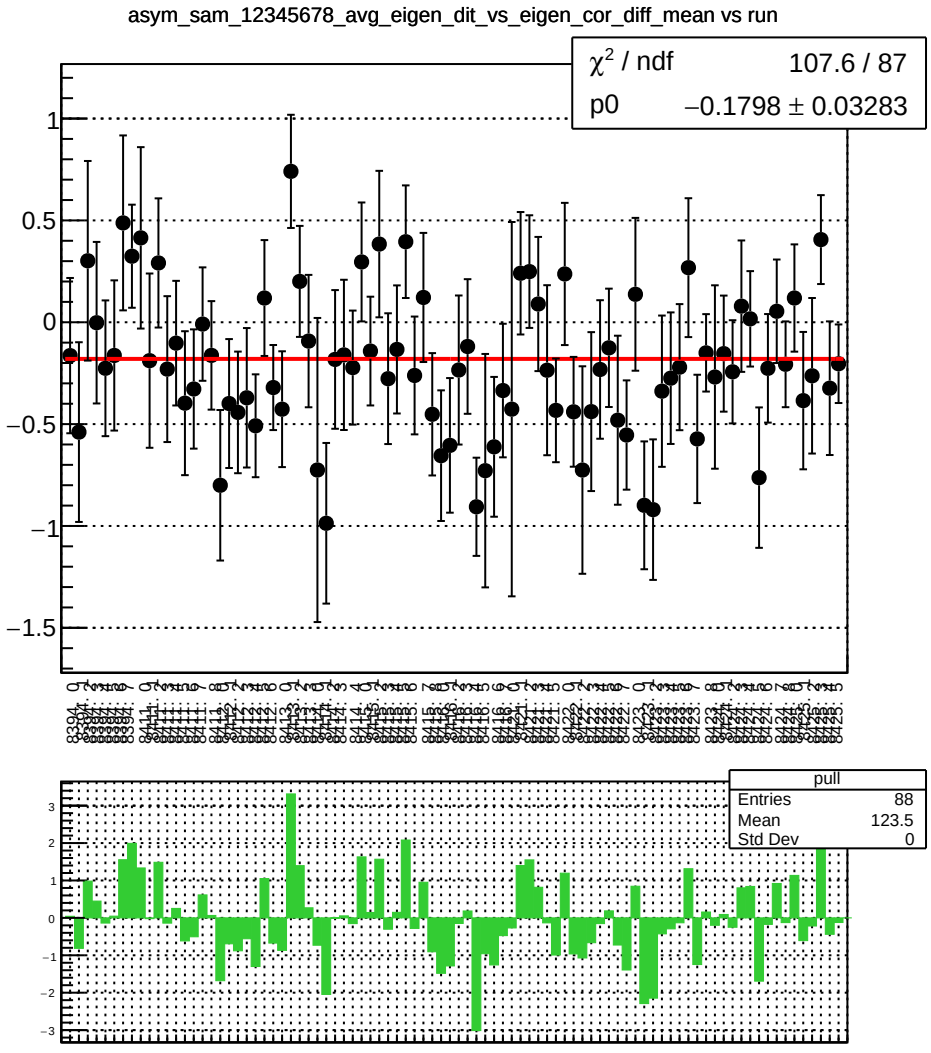

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.24 / 87
p0 1.427e−05 ± 3.282e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean −3.8e+04
Std Dev 0
3
2
1
0
−1
−2

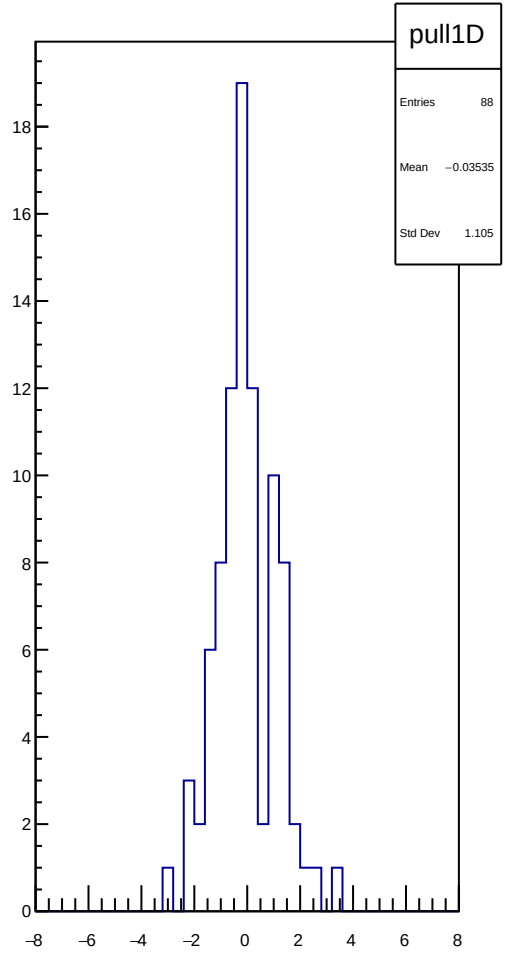

pull1D
Entries 88
Mean −0.0001666
Std Dev 0.9246
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

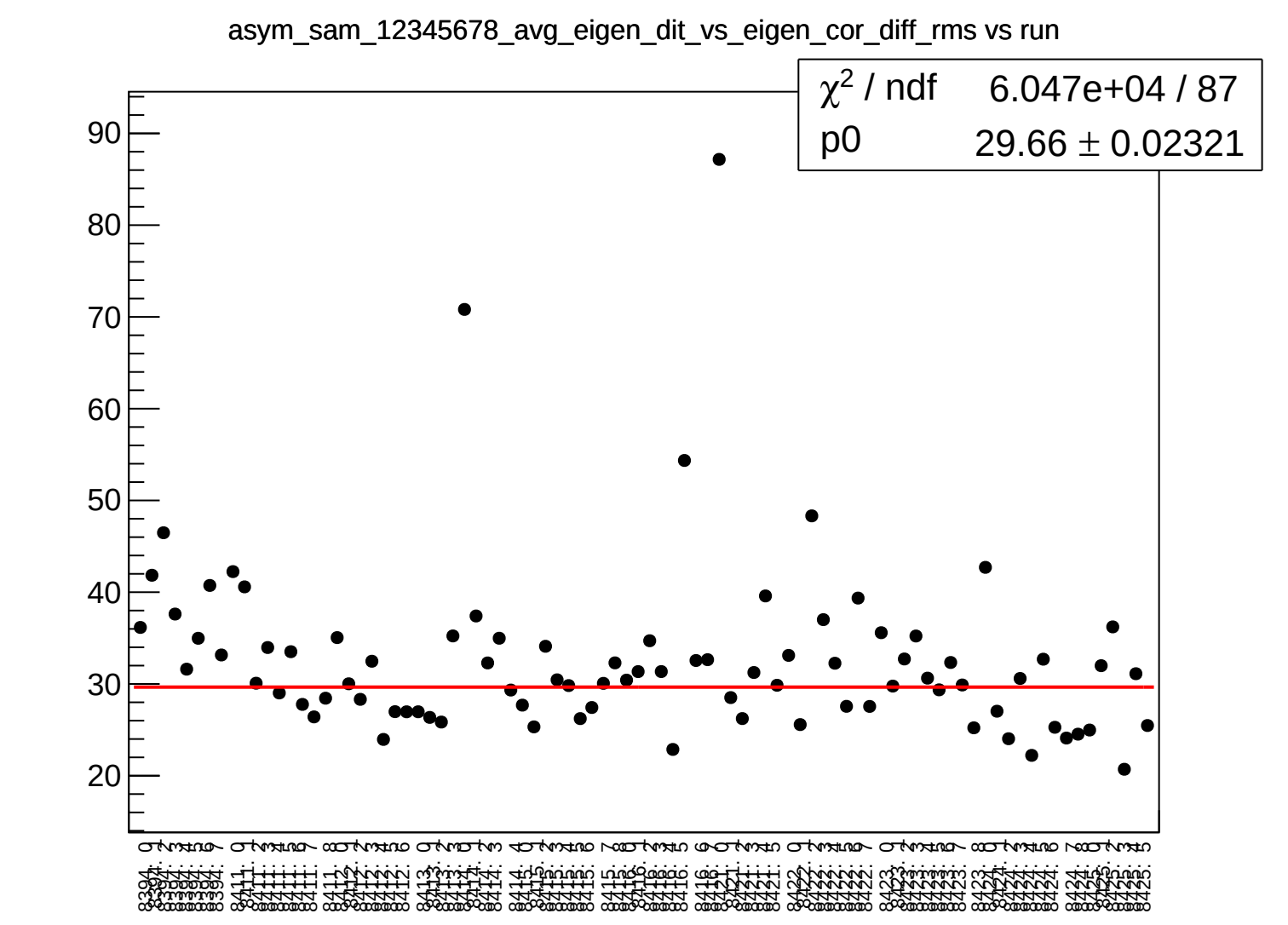

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.438e+04 / 87
p0 0.002998 ± 2.321e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

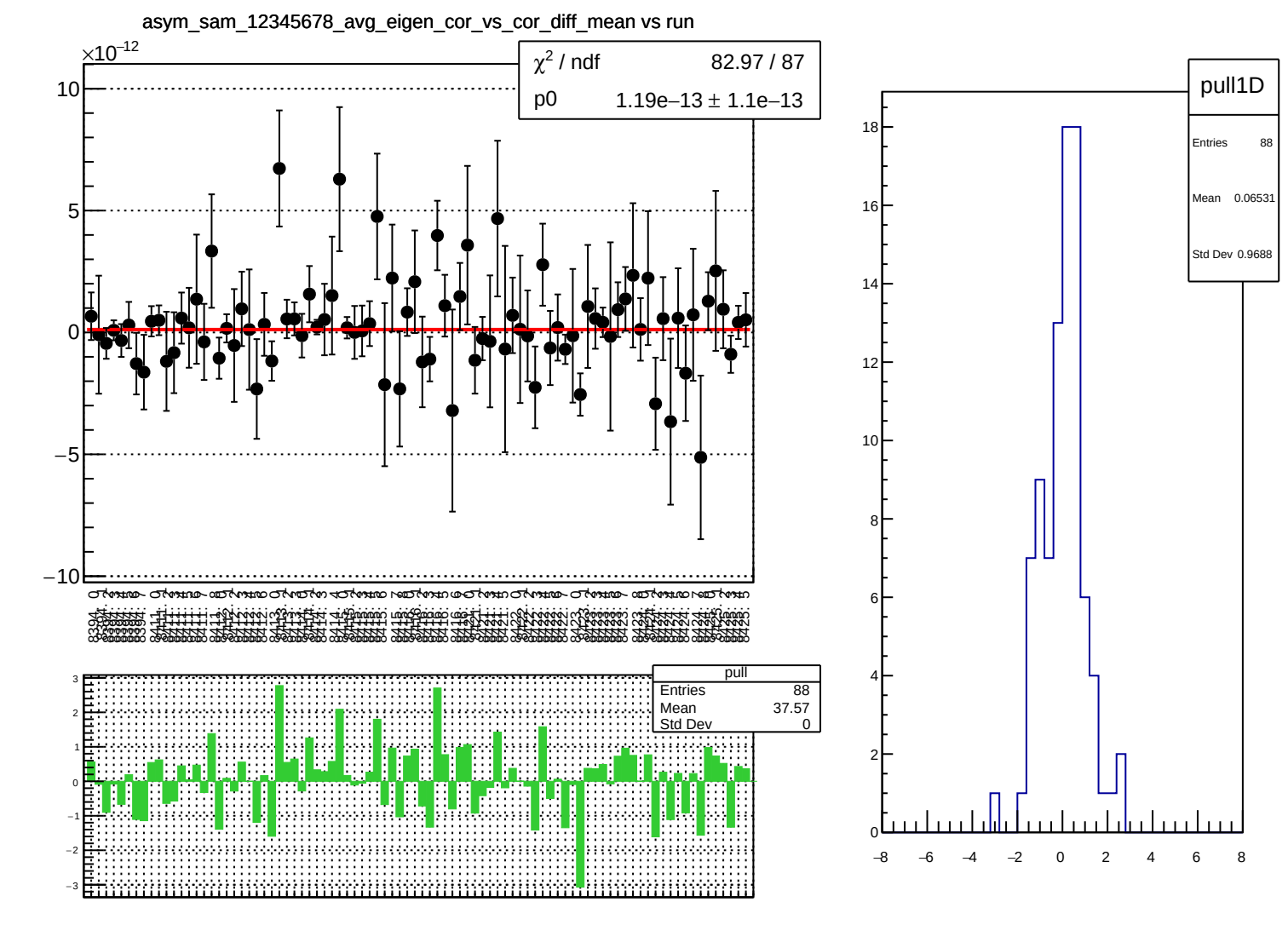

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.6 / 87
p0 −0.1798 ± 0.03283
pull
Entries 88
Mean 123.5
Std Dev 0
pull1D
Entries 88
Mean −0.03535
Std Dev 1.105

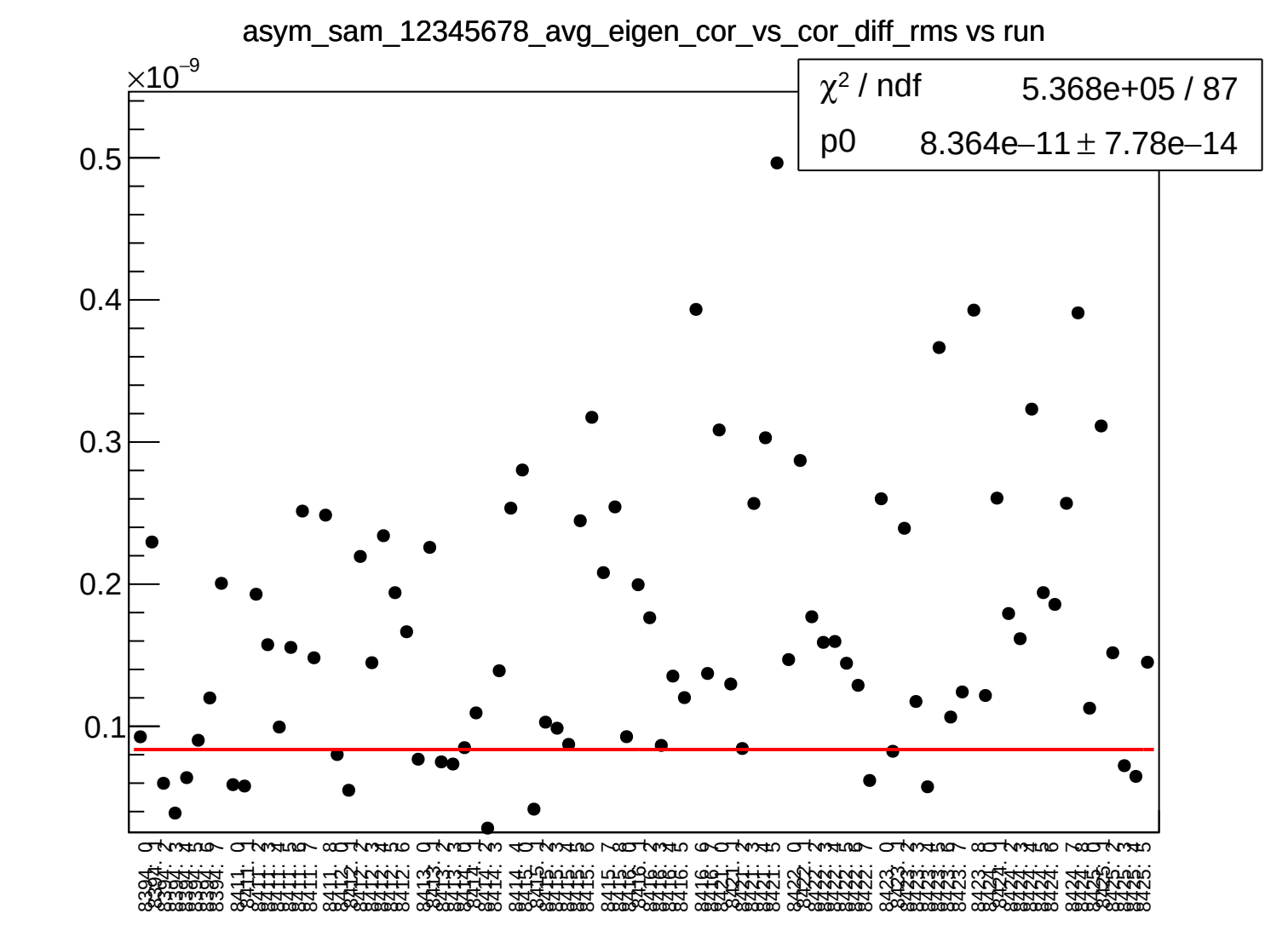

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.047e+04 / 87
p0 29.66 ± 0.02321
90
80
70
60
50
40
30
20

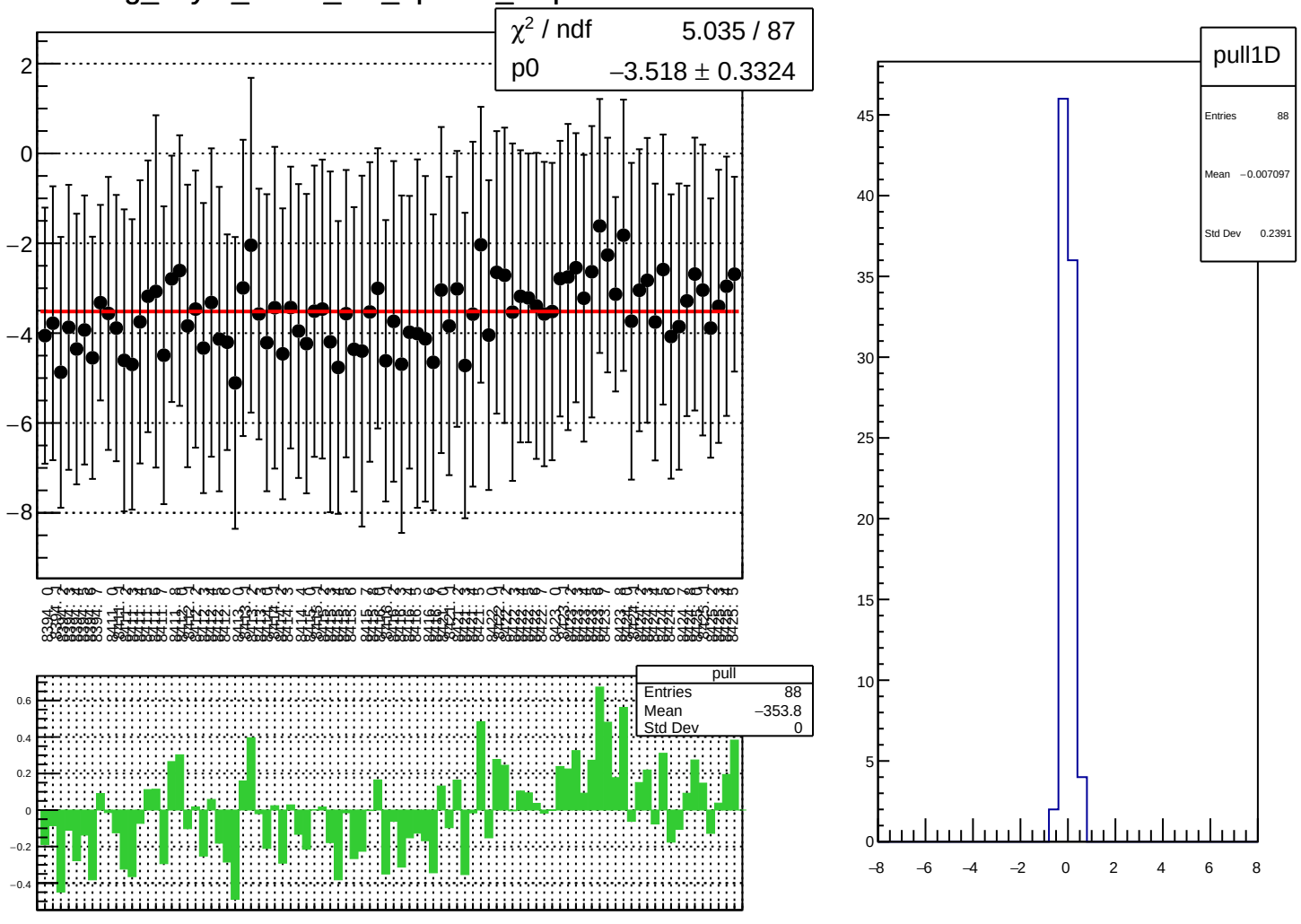

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.6 / 87
p0 −0.1798 ± 0.03283
pull
Entries 88
Mean 123.5
Std Dev 0

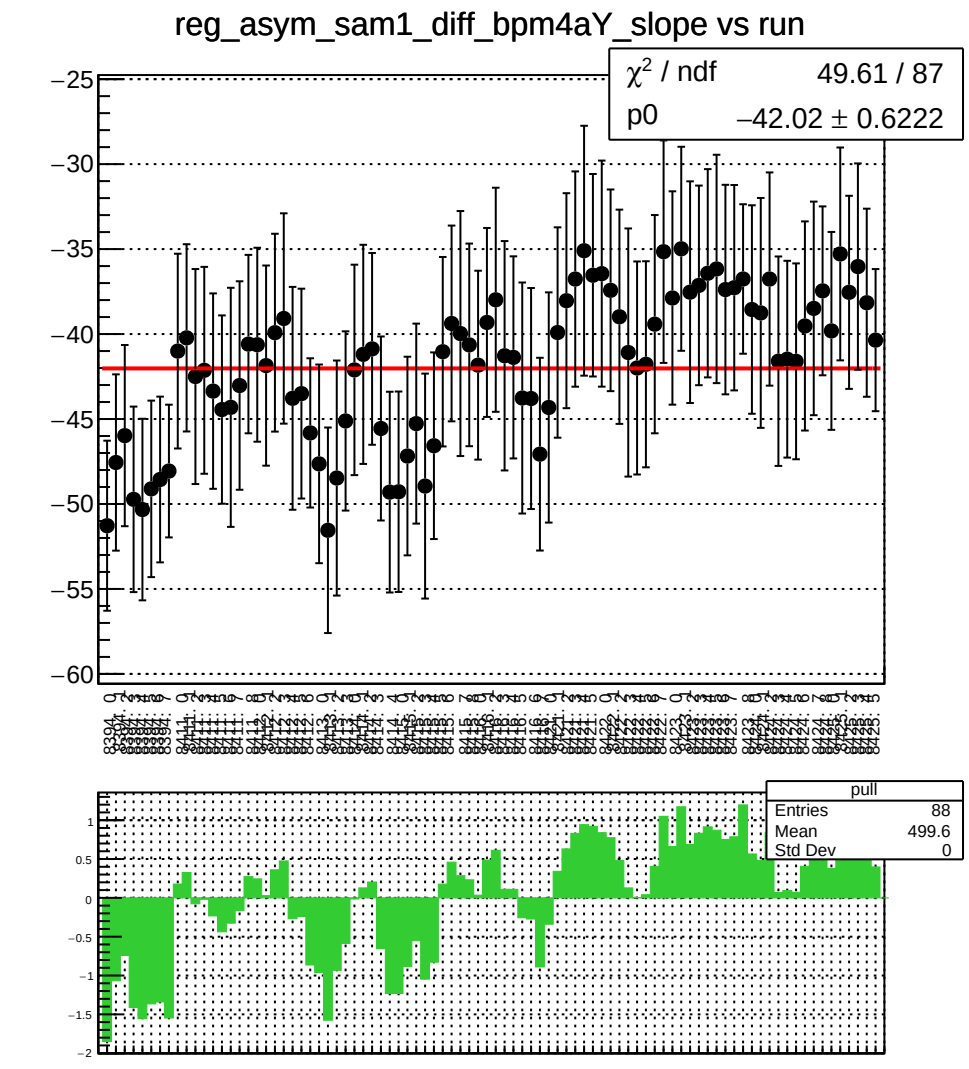

pull1D
Entries 88
Mean −0.03535
Std Dev 1.105

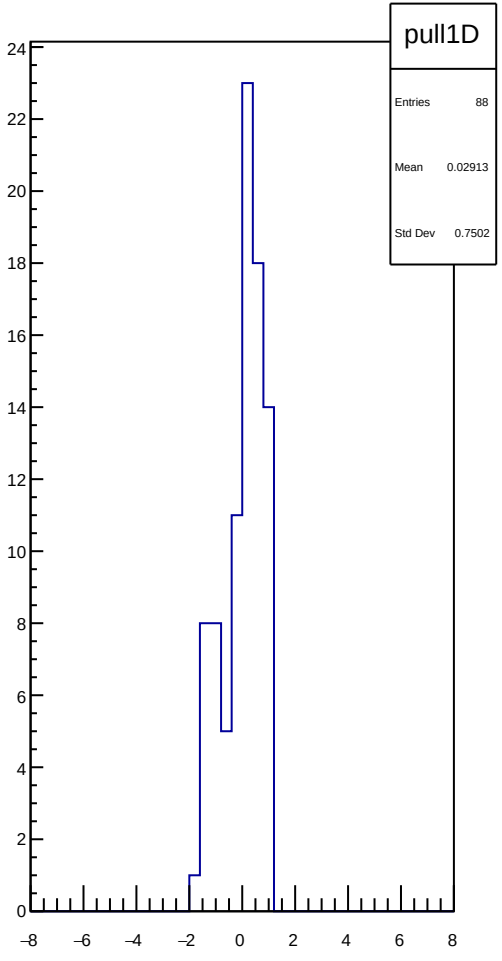

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.047e+04 / 87
p0 29.66 ± 0.02321
90
80
70
60
50
40
30
20

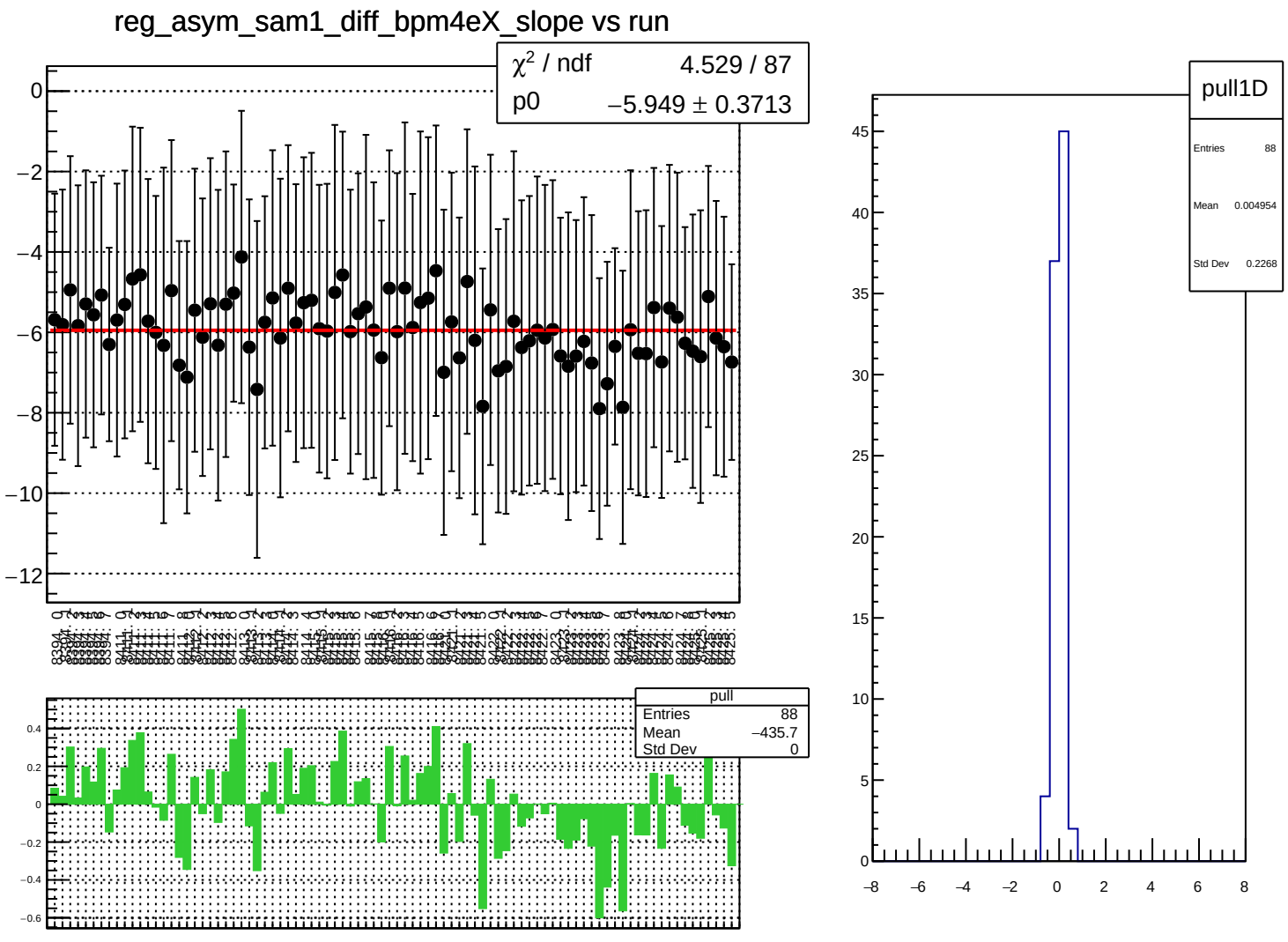

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.97 / 87
p0 1.19e−13 ± 1.1e−13
pull
Entries 88
Mean 37.57
Std Dev 0
pull1D
Entries 88
Mean 0.06531
Std Dev 0.9688

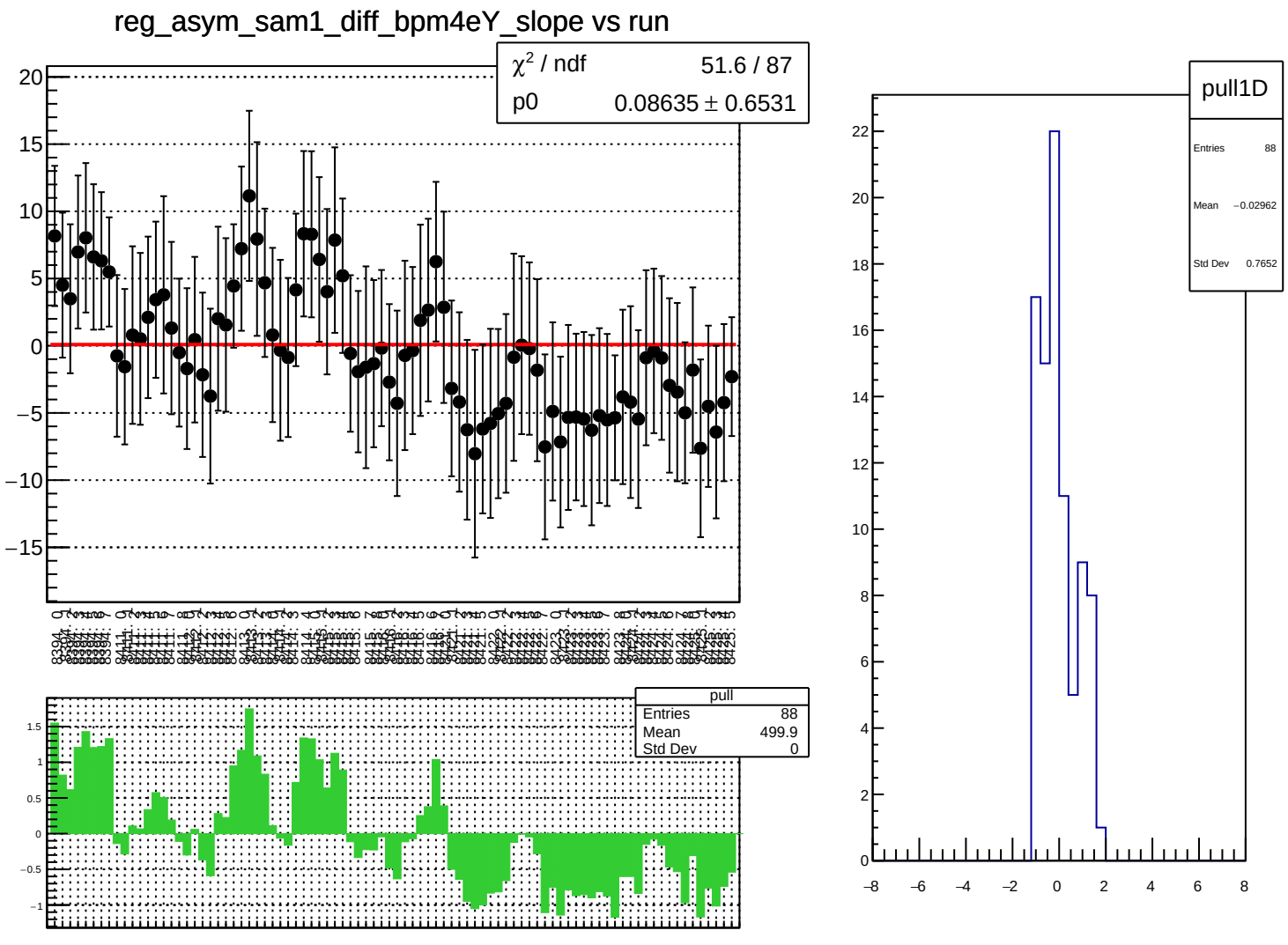

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.368e+05 / 87
p0 8.364e−11 ± 7.78e−14
0.5
0.4
0.3
0.2
0.1

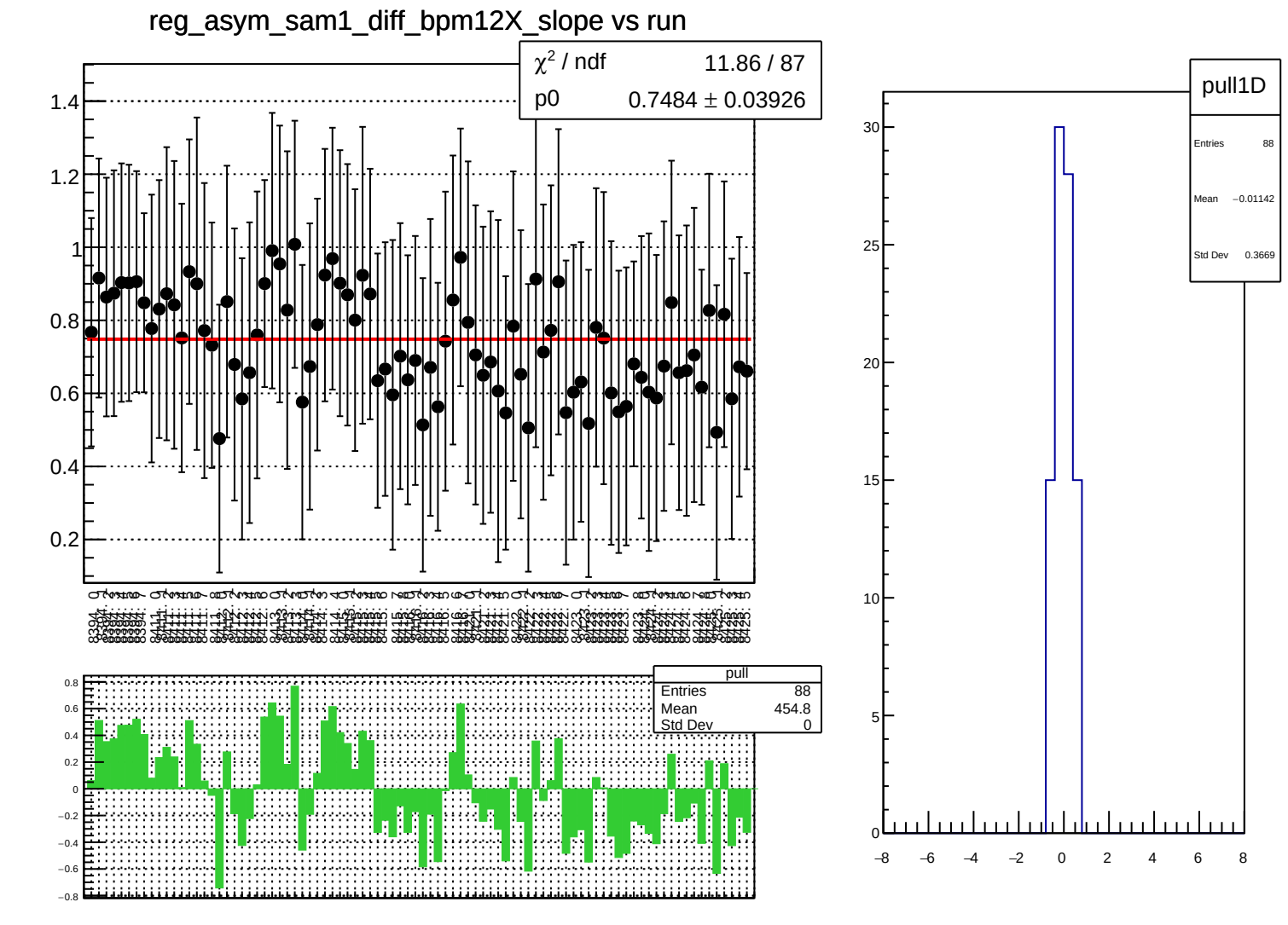

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 5.035 / 87
p0 −3.518 ± 0.3324
pull
Entries 88
Mean −353.8
Std Dev 0
pull1D
Entries 88
Mean −0.007097
Std Dev 0.2391

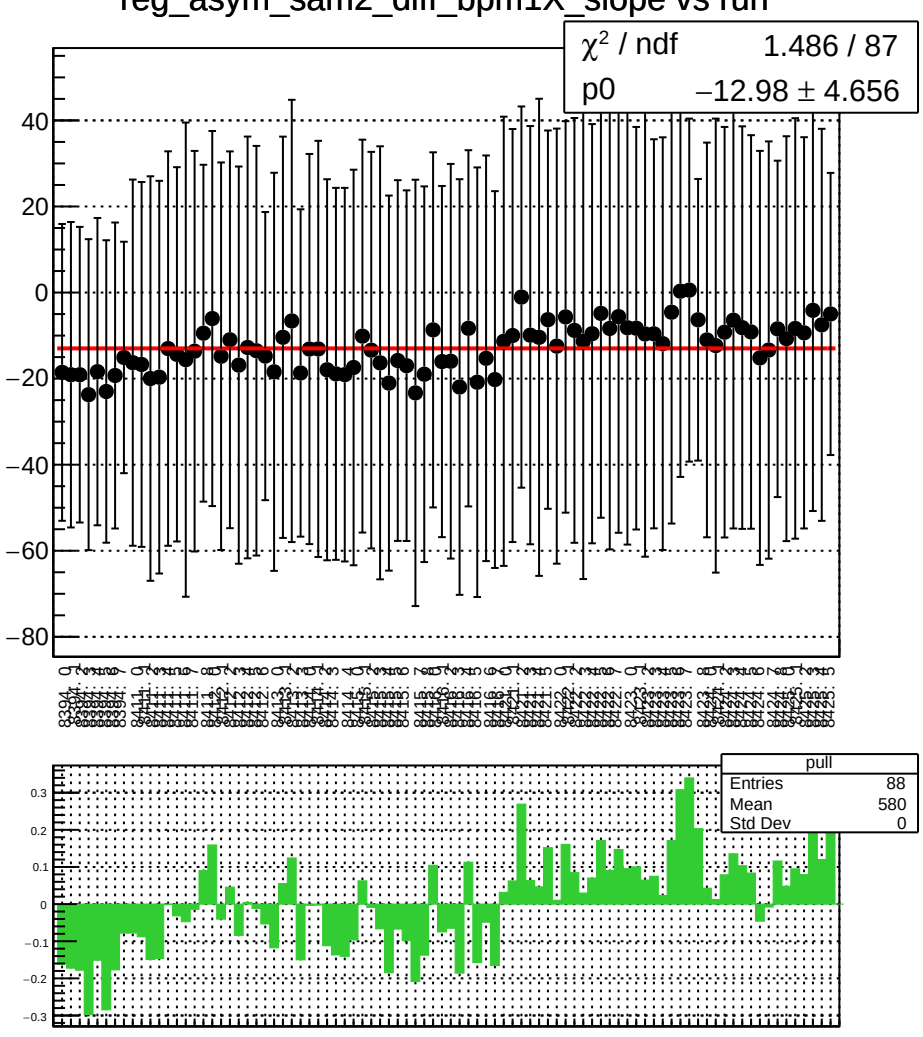

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 49.61 / 87
p0 −42.02 ± 0.6222
pull
Entries 88
Mean 499.6
Std Dev 0

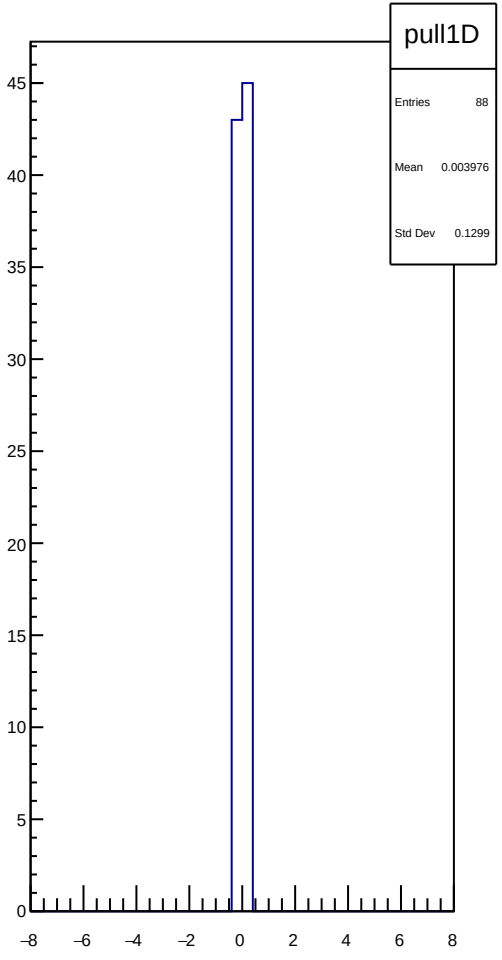

pull1D
Entries 88
Mean 0.02913
Std Dev 0.7502

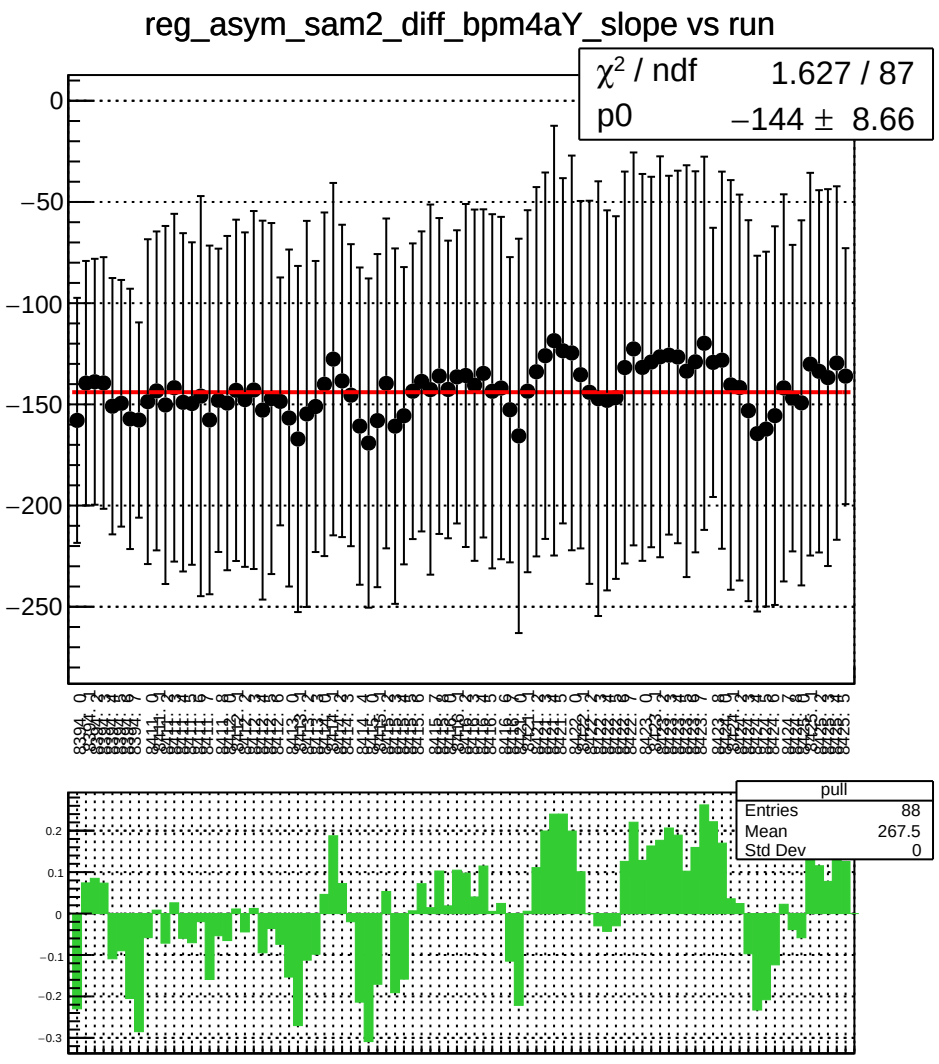

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 4.529 / 87
p0 −5.949 ± 0.3713
pull
Entries 88
Mean −435.7
Std Dev 0
pull1D
Entries 88
Mean 0.004954
Std Dev 0.2268

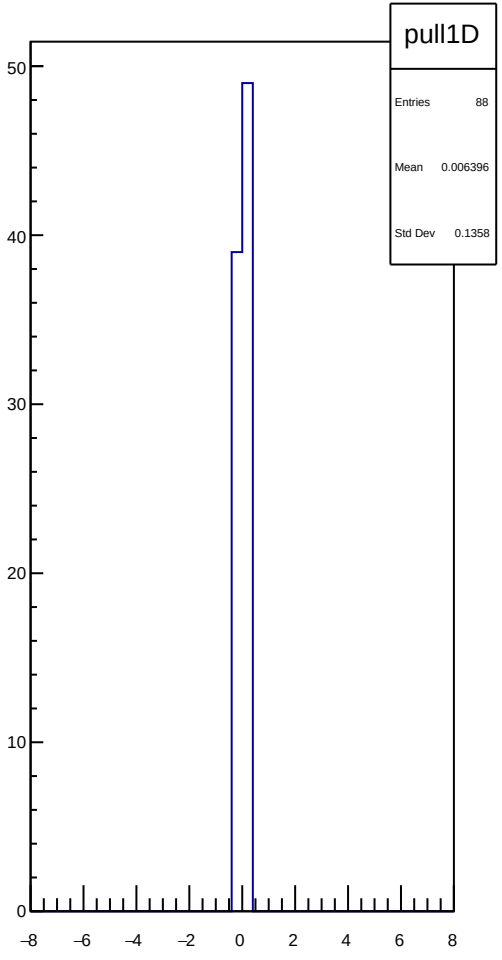

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 51.6 / 87
p0 0.08635 ± 0.6531
pull
Entries 88
Mean 499.9
Std Dev 0
pull1D
Entries 88
Mean −0.02962
Std Dev 0.7652

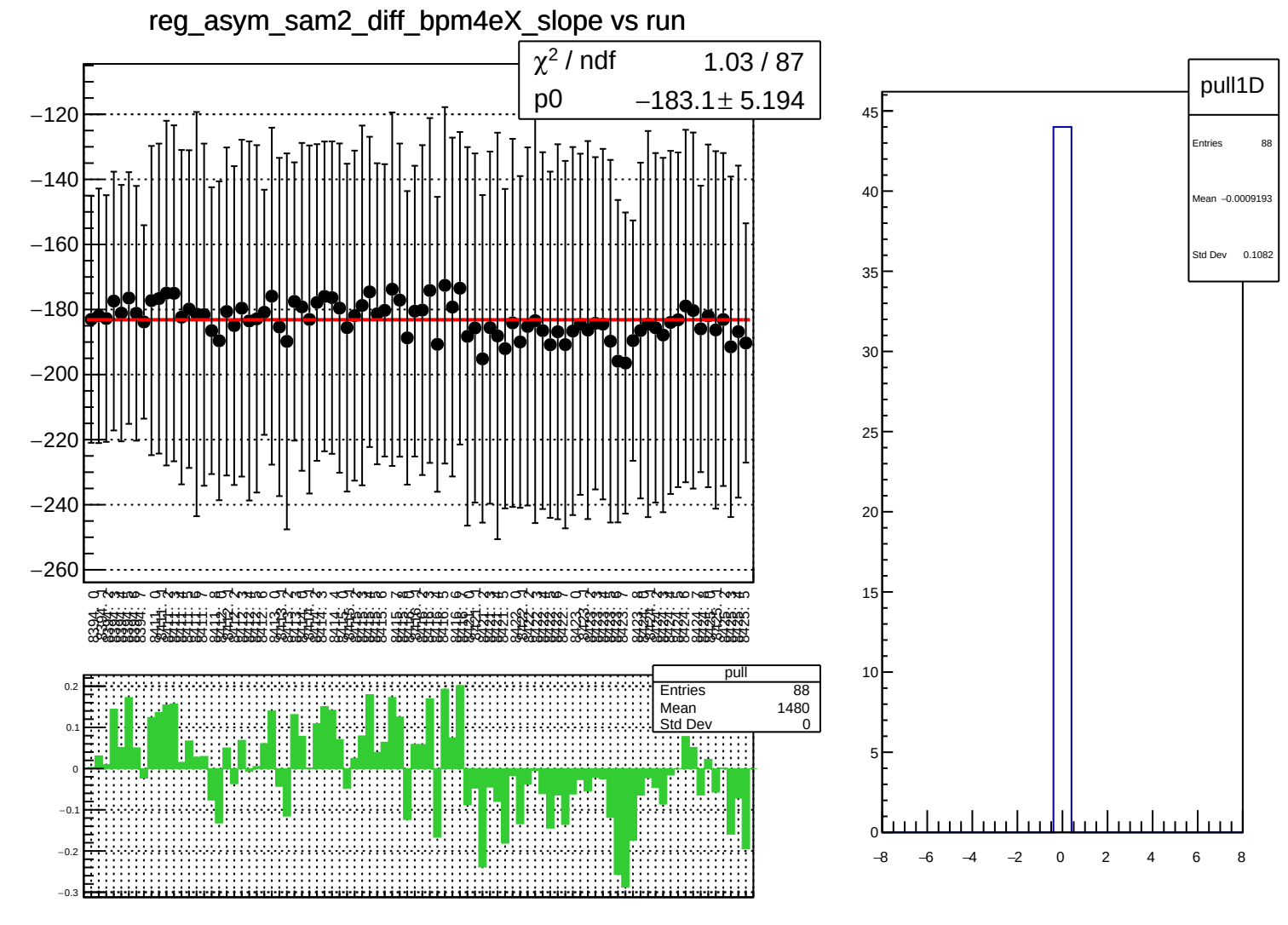

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 11.86 / 87
p0 0.7484 ± 0.03926
pull
Entries 88
Mean 454.8
Std Dev 0
pull1D
Entries 88
Mean −0.01142
Std Dev 0.3669

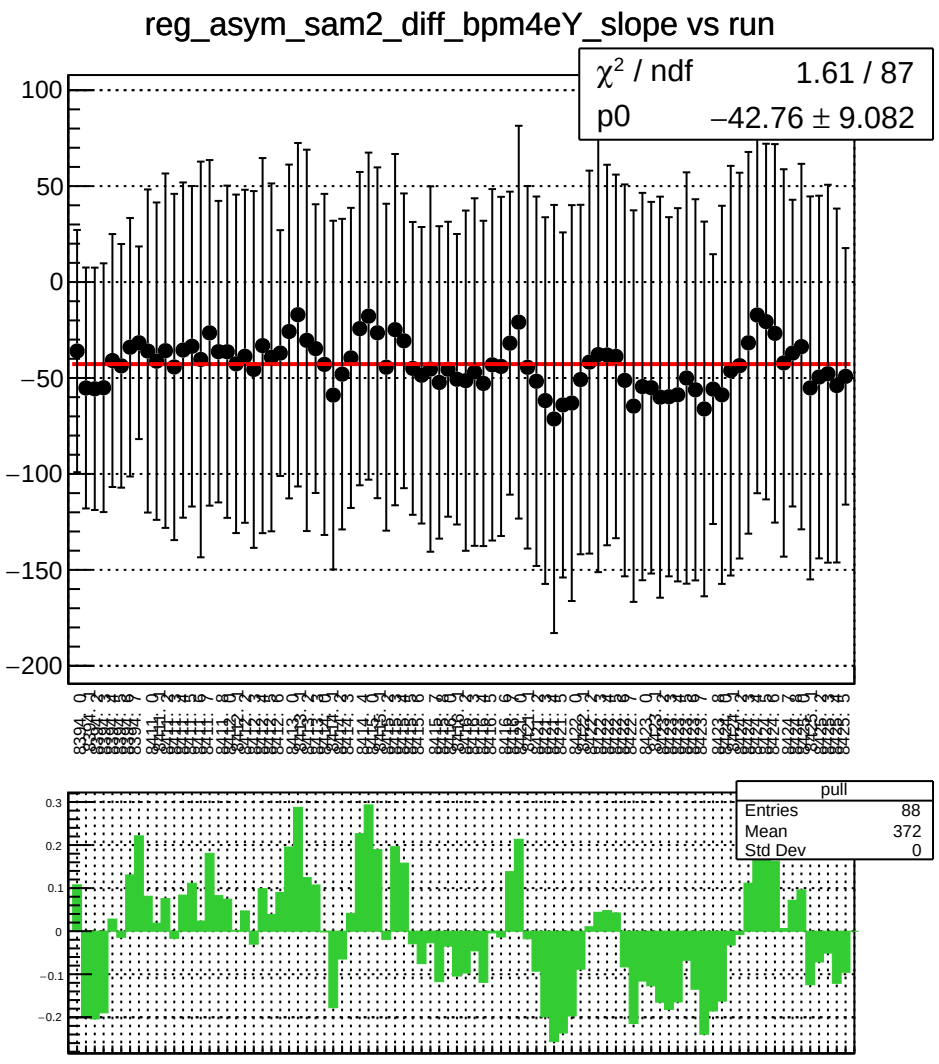

reg_asym_sam2_diff_bpm1X_slope vs run
χ^2 / ndf 1.486 / 87
p0 −12.98 ± 4.656
pull
Entries 88
Mean 580
Std Dev 0

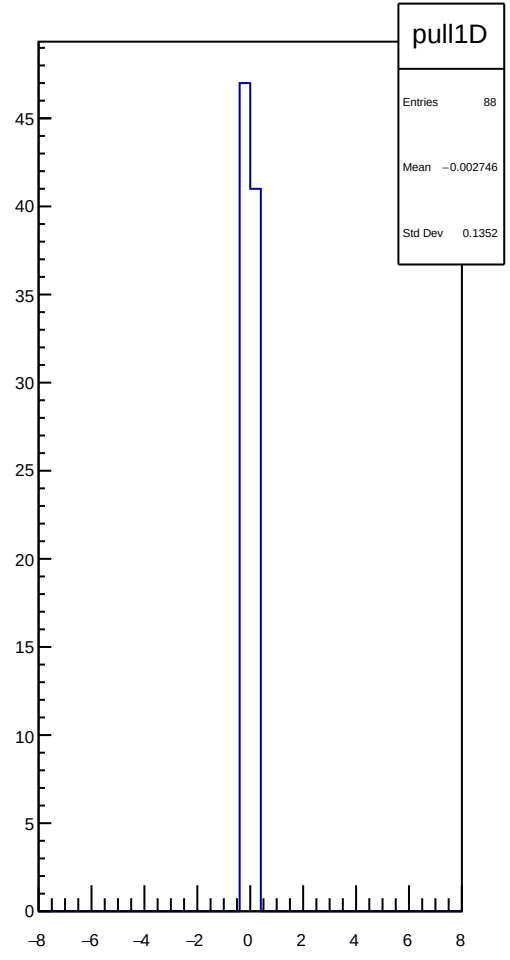

pull1D
Entries 88
Mean 0.003976
Std Dev 0.1299

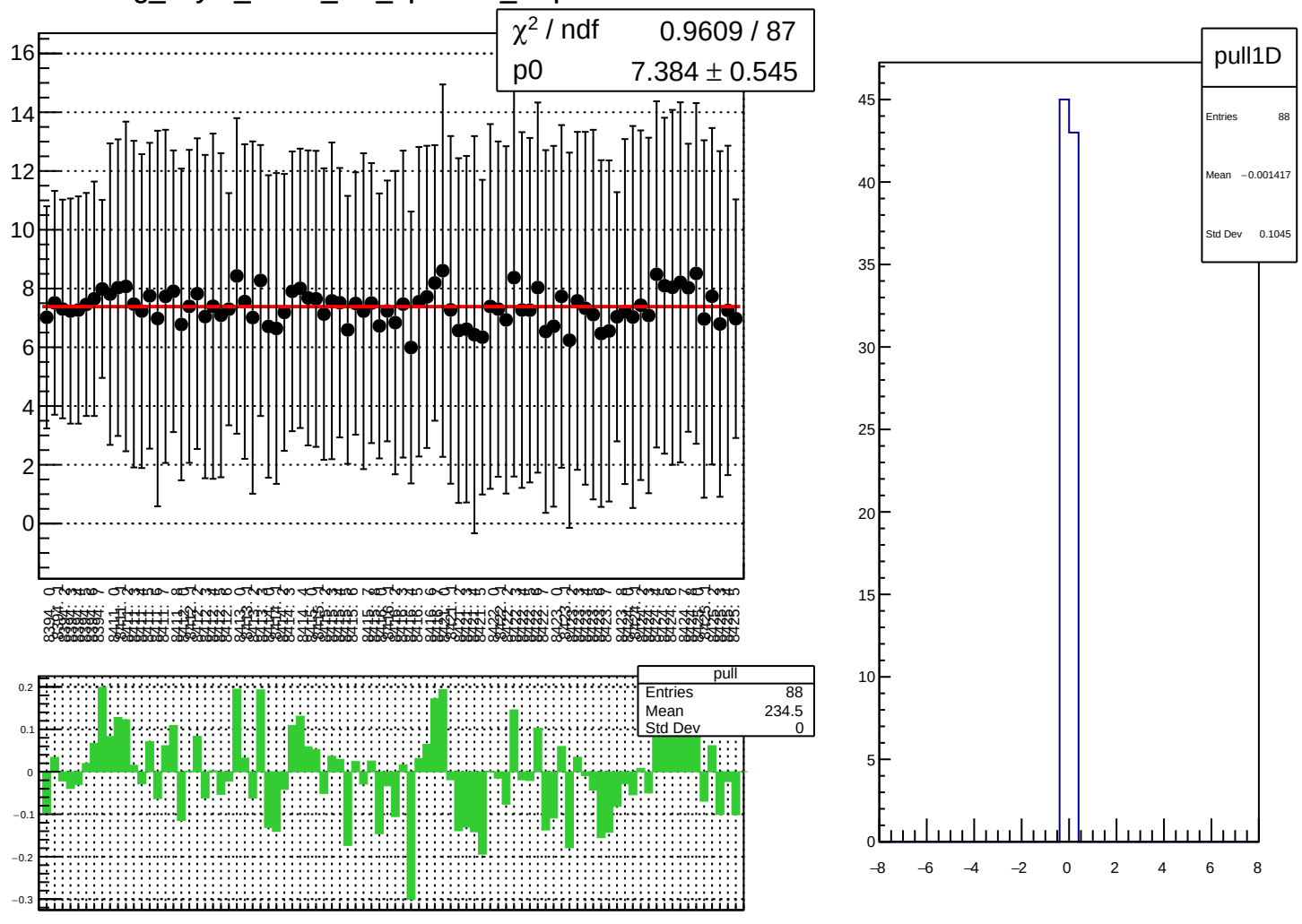

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 1.627 / 87
p0 −144 ± 8.66
pull
Entries 88
Mean 267.5
Std Dev 0

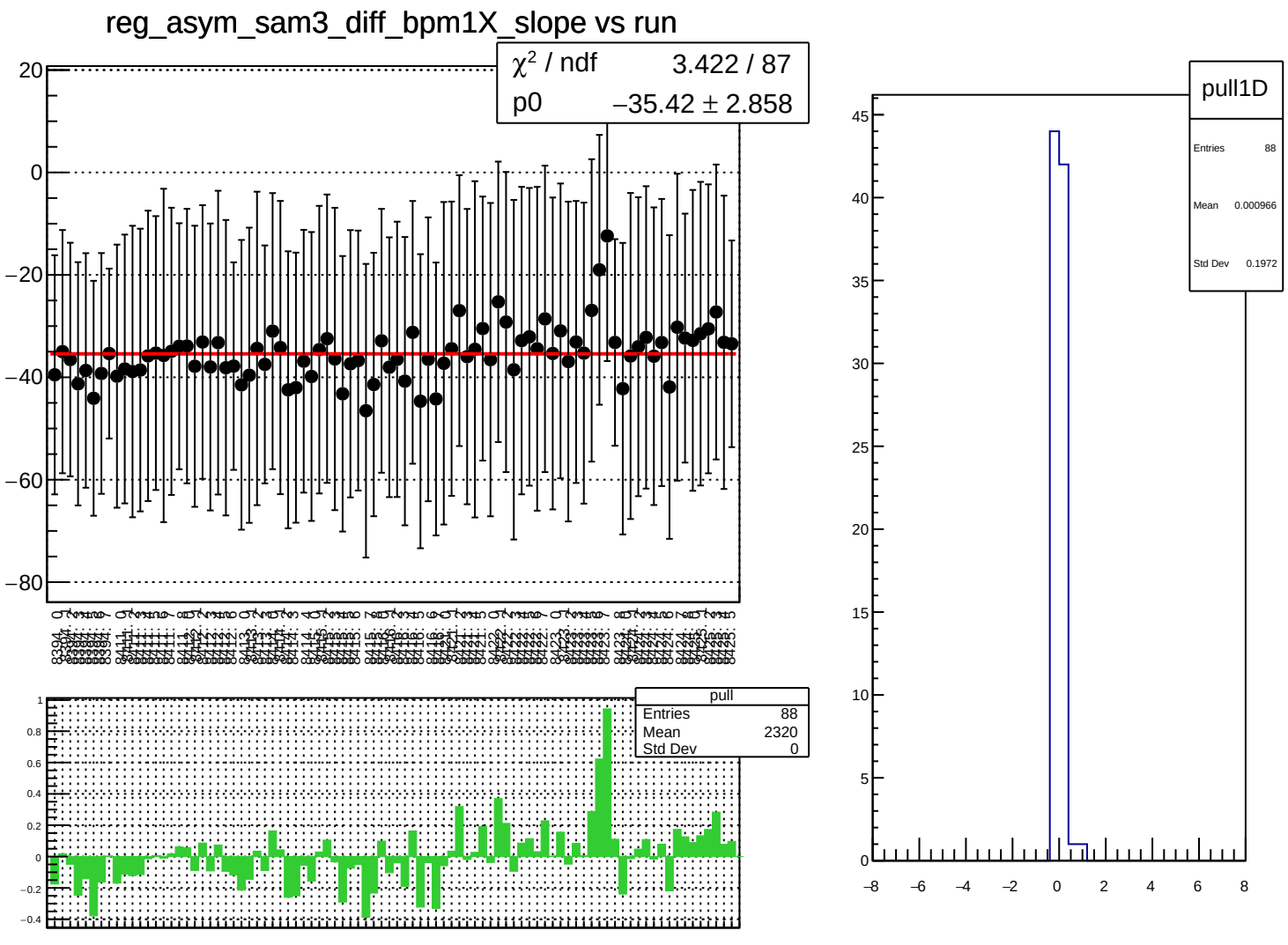

pull1D
Entries 88
Mean 0.006396
Std Dev 0.1358

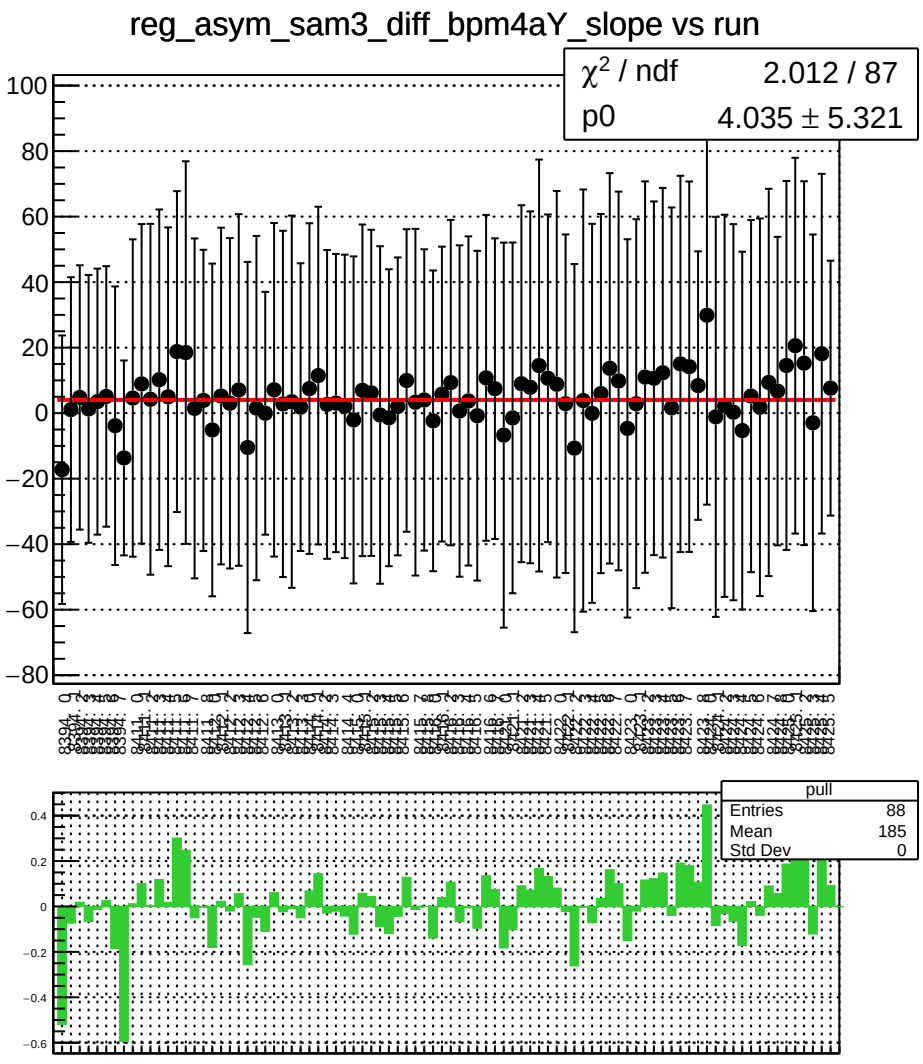

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 1.03 / 87
p0 −183.1 ± 5.194
pull
Entries 88
Mean 1480
Std Dev 0
pull1D
Entries 88
Mean −0.0009193
Std Dev 0.1082

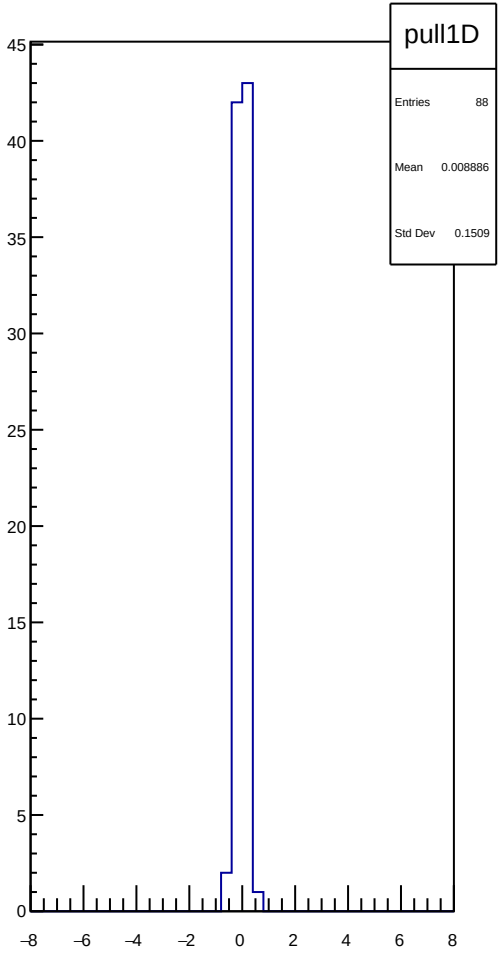

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 1.61 / 87
p0 −42.76 ± 9.082
pull
Entries 88
Mean 372
Std Dev 0

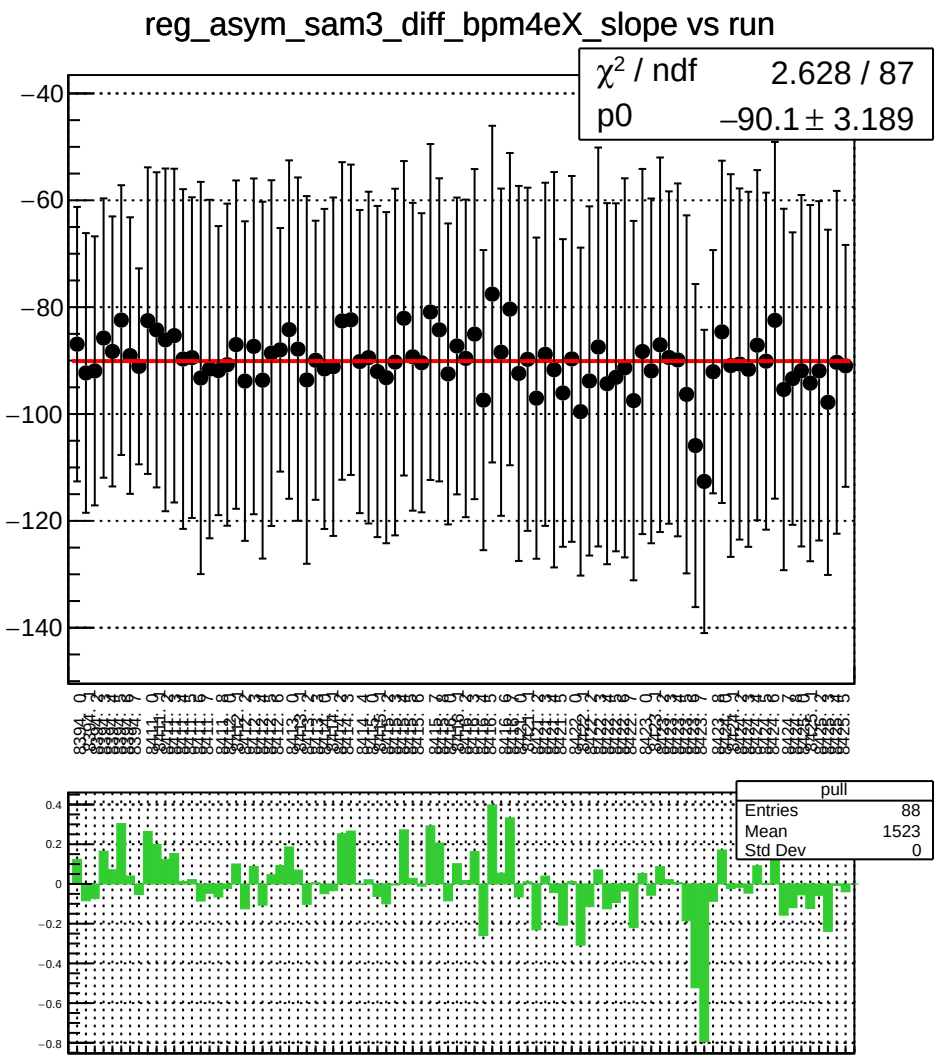

pull1D
Entries 88
Mean −0.002746
Std Dev 0.1352

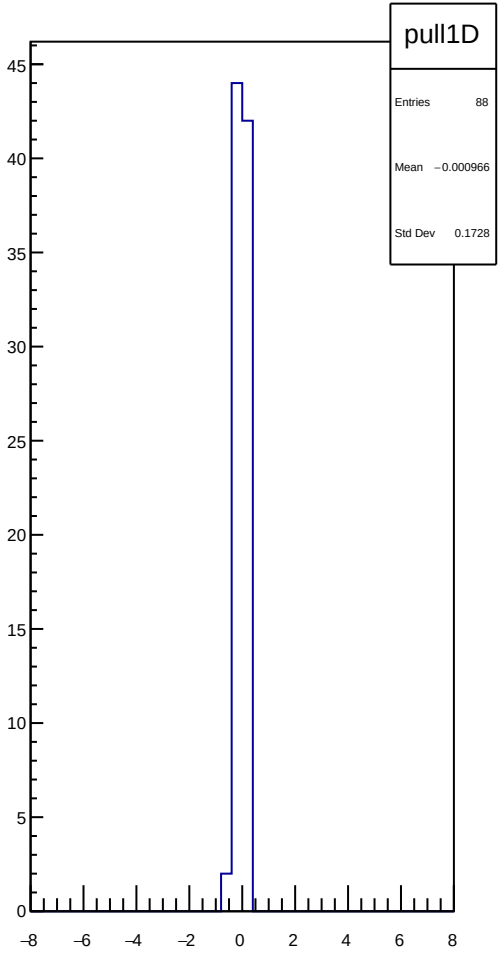

reg_asym_sam2_diff_bpm12X_slope vs run
χ^2 / ndf 0.9609 / 87
p0 7.384 ± 0.545
pull
Entries 88
Mean 234.5
Std Dev 0
pull1D
Entries 88
Mean −0.001417
Std Dev 0.1045

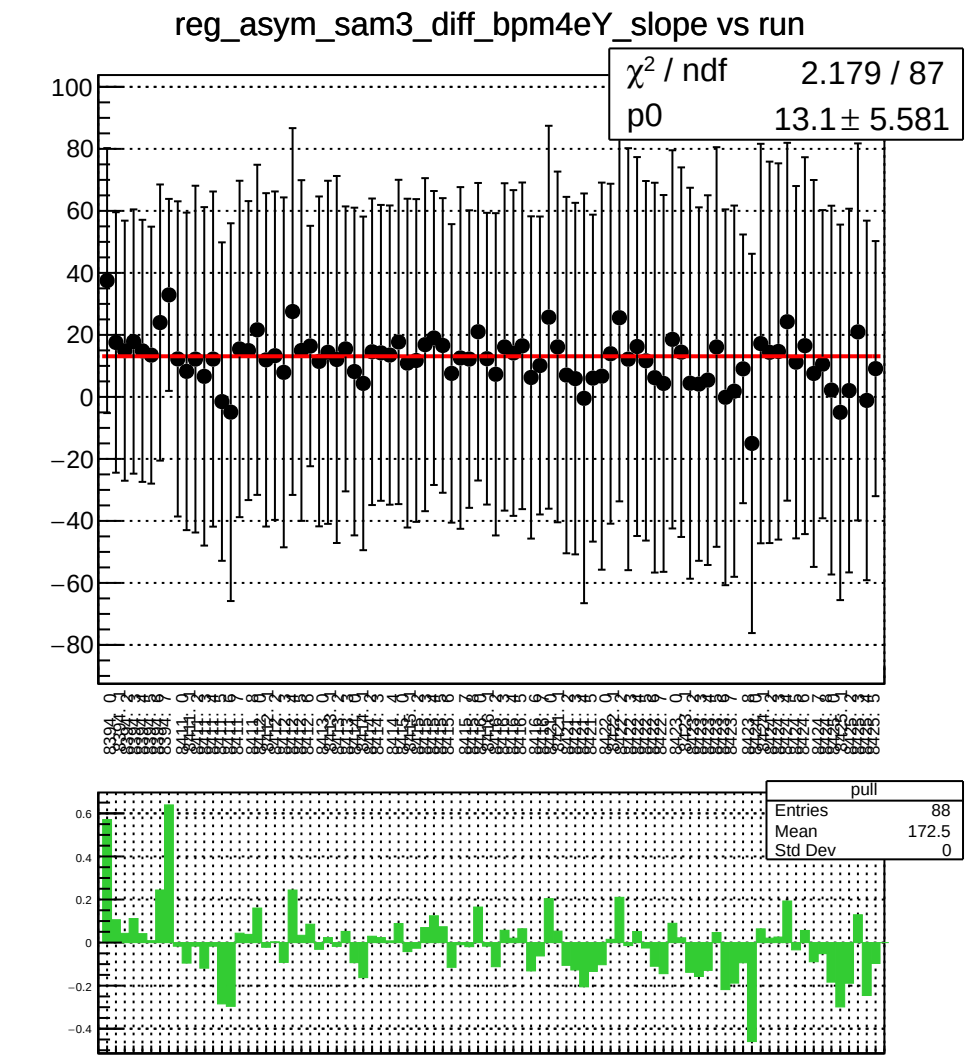

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 3.422 / 87
p0 −35.42 ± 2.858
pull
Entries 88
Mean 2320
Std Dev 0
pull1D
Entries 88
Mean 0.000966
Std Dev 0.1972

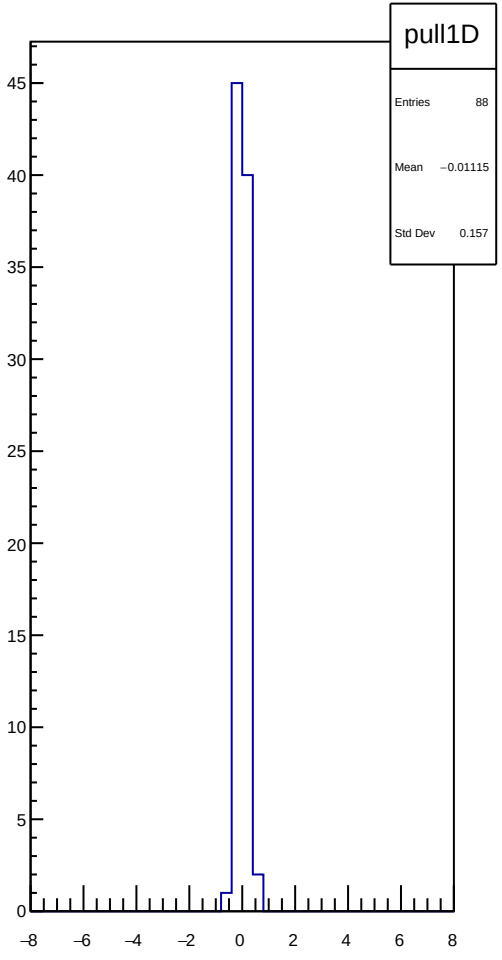

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 2.012 / 87
p0 4.035 ± 5.321
pull
Entries 88
Mean 185
Std Dev 0

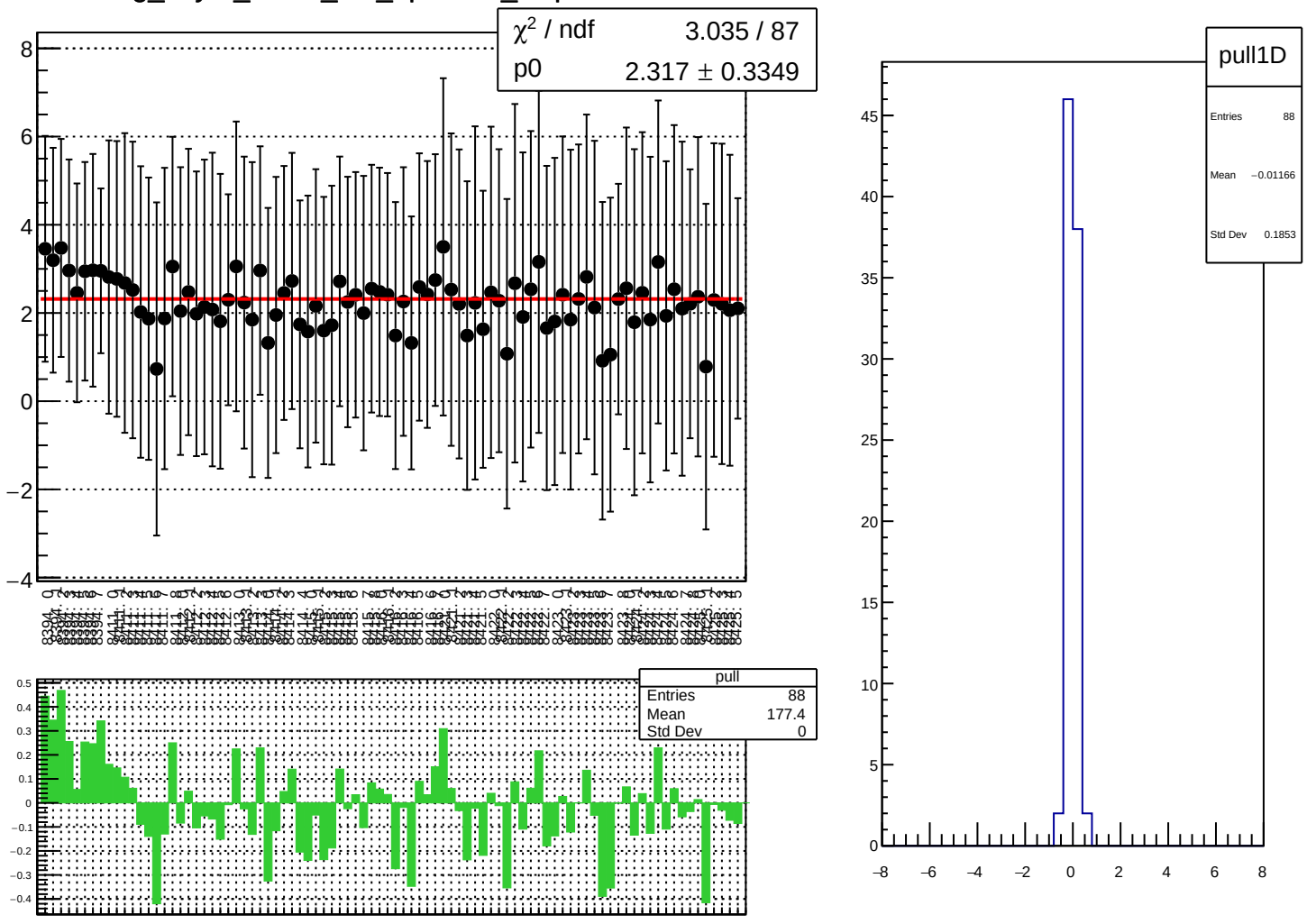

pull1D
Entries 88
Mean 0.008886
Std Dev 0.1509

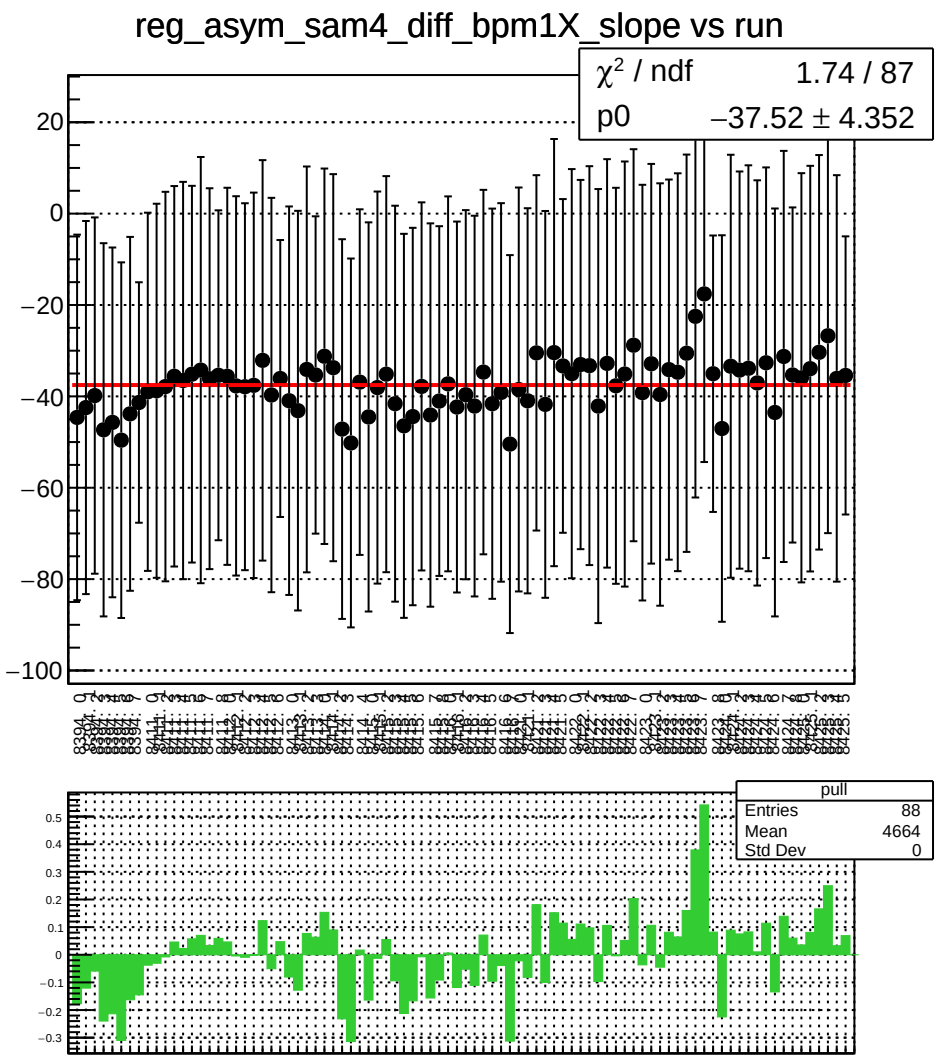

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 2.628 / 87
p0 −90.1 ± 3.189
pull
Entries 88
Mean 1523
Std Dev 0

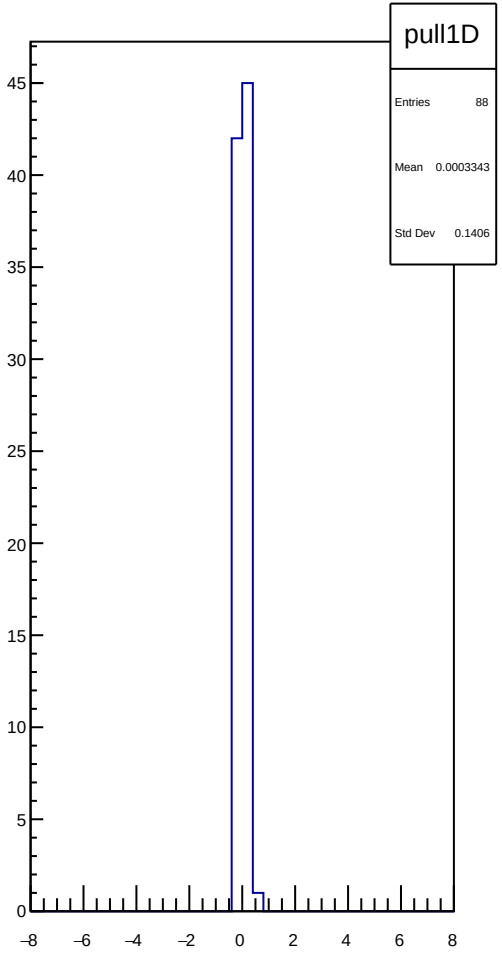

pull1D
Entries 88
Mean −0.000966
Std Dev 0.1728

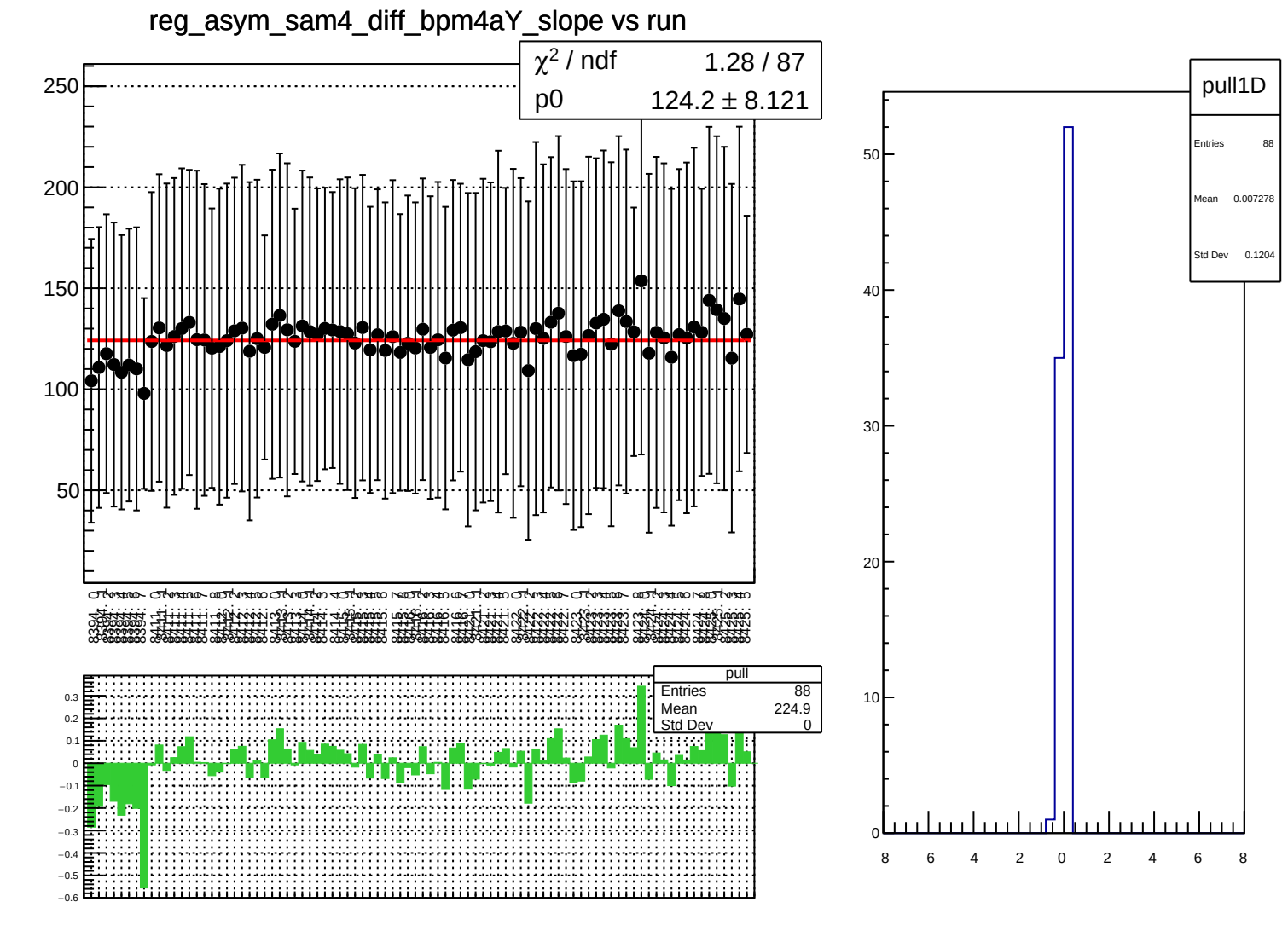

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 2.179 / 87
p0 13.1 ± 5.581
pull
Entries 88
Mean 172.5
Std Dev 0

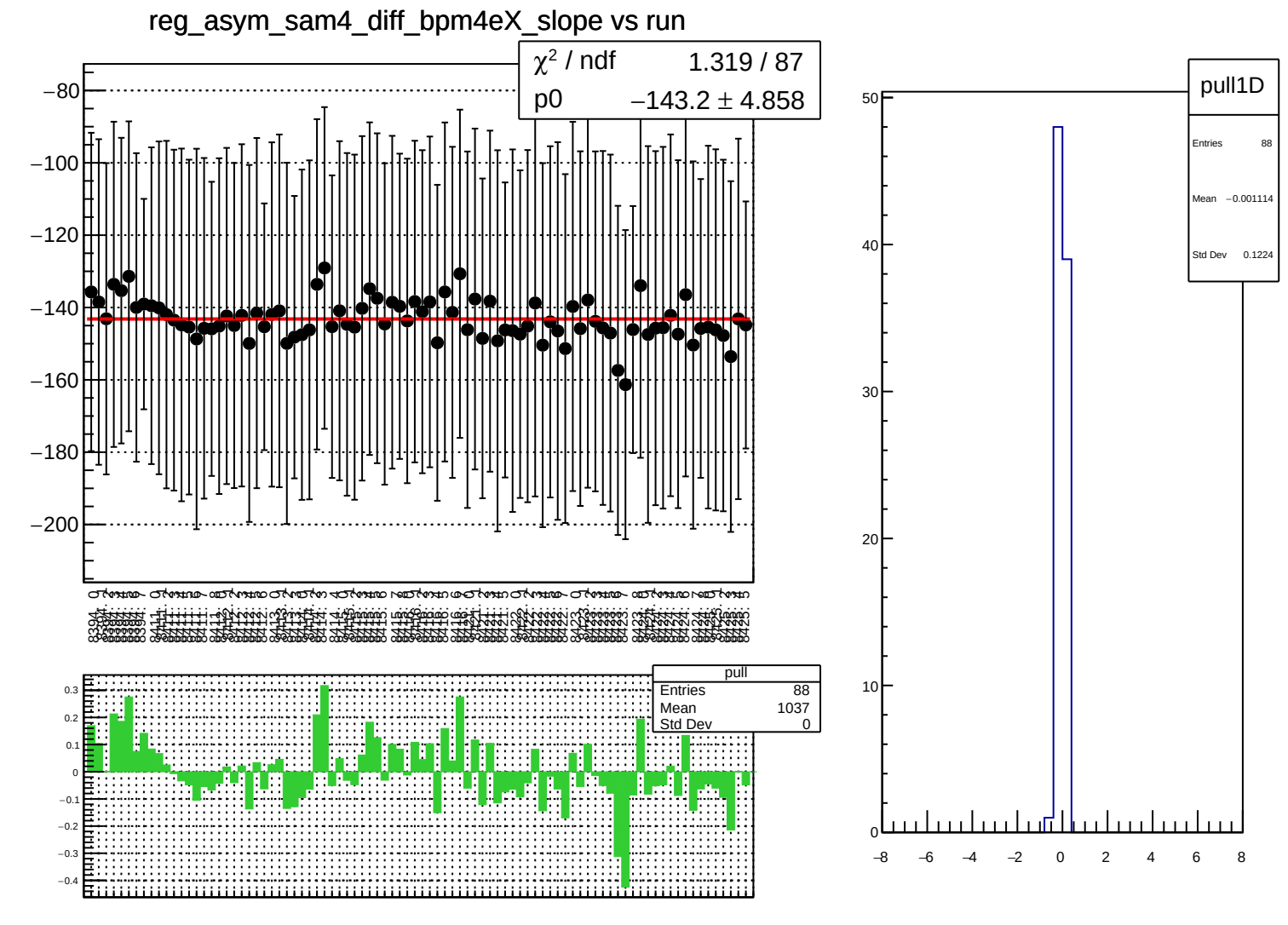

pull1D
Entries 88
Mean −0.01115
Std Dev 0.157

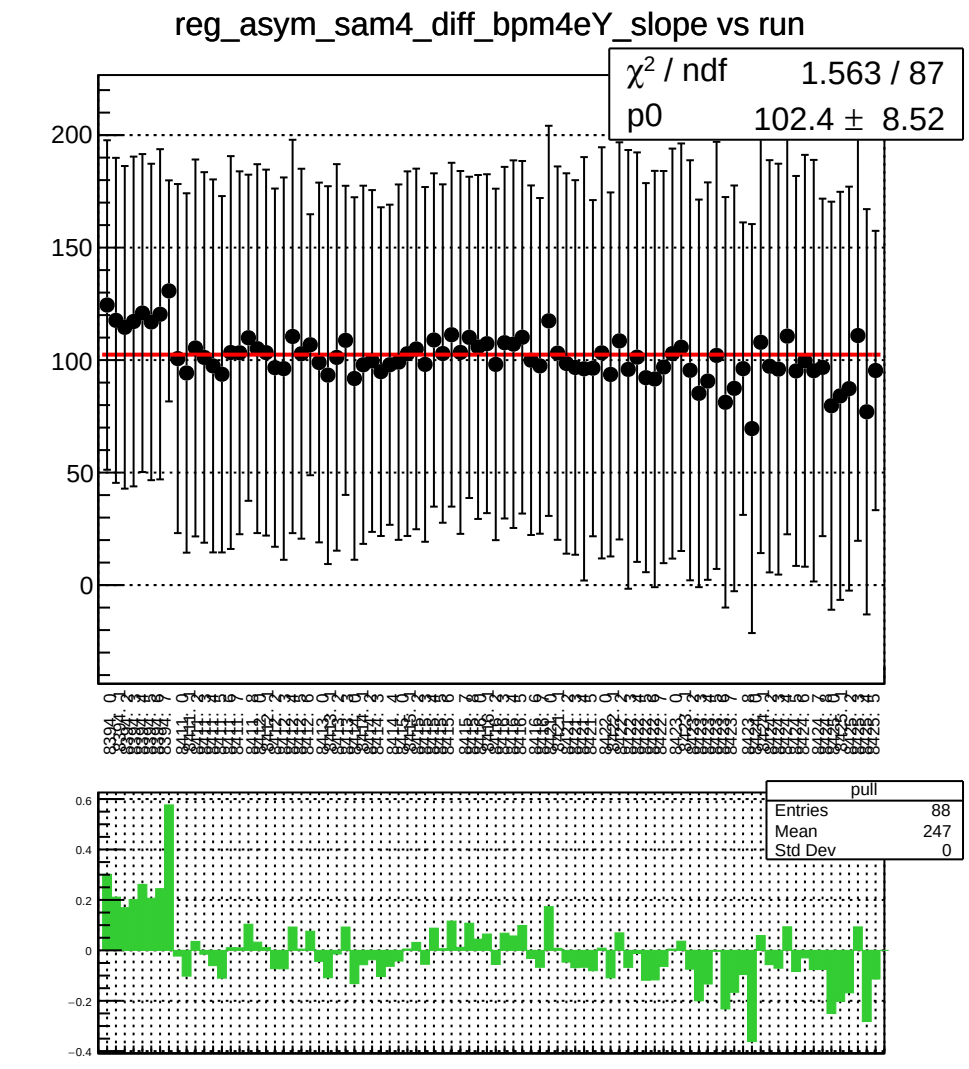

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 3.035 / 87
p0 2.317 ± 0.3349
pull
Entries 88
Mean 177.4
Std Dev 0
pull1D
Entries 88
Mean −0.01166
Std Dev 0.1853

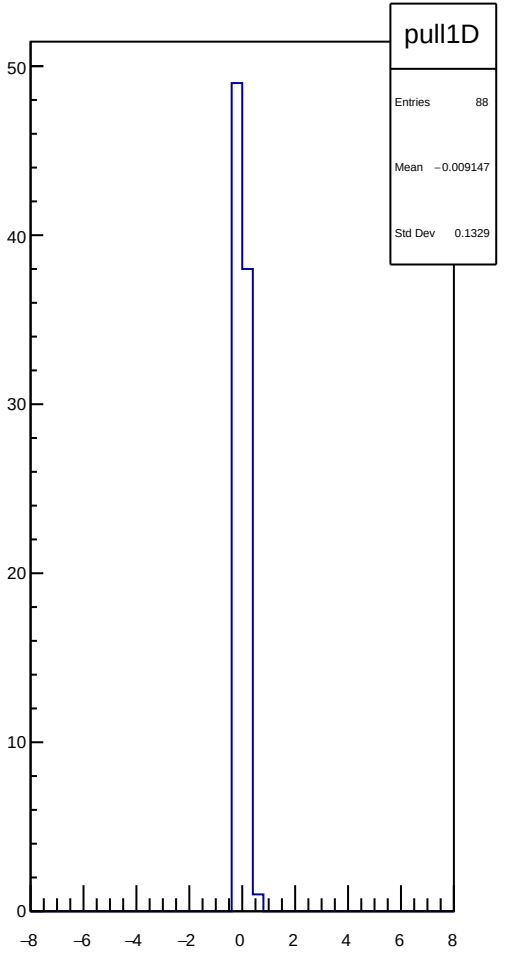

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 1.74 / 87
p0 −37.52 ± 4.352
pull
Entries 88
Mean 4664
Std Dev 0

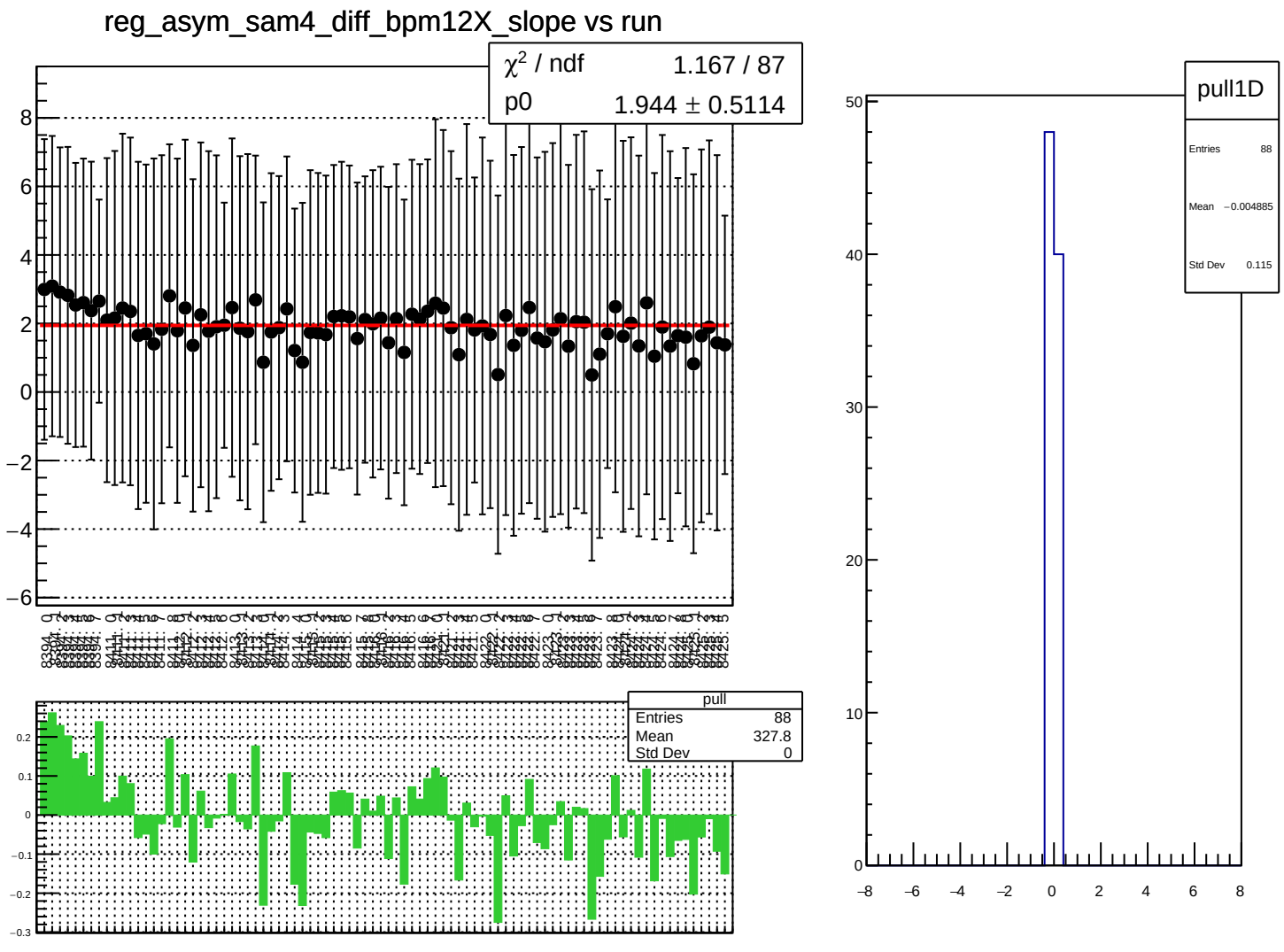

pull1D
Entries 88
Mean 0.0003343
Std Dev 0.1406

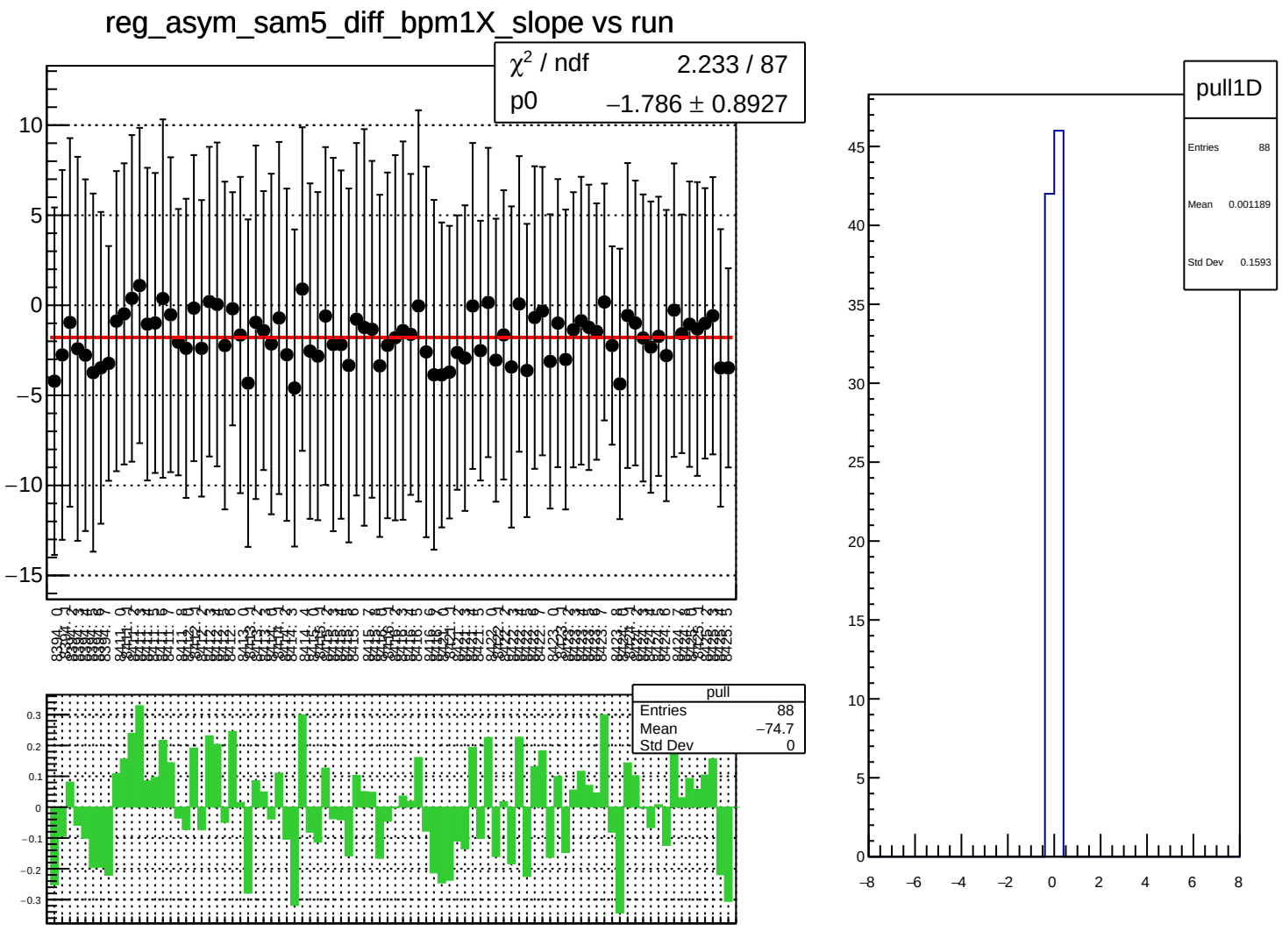

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 1.28 / 87
p0 124.2 ± 8.121
250
200
150
100
50
pull
Entries 88
Mean 224.9
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
pull1D
Entries 88
Mean 0.007278
Std Dev 0.1204
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

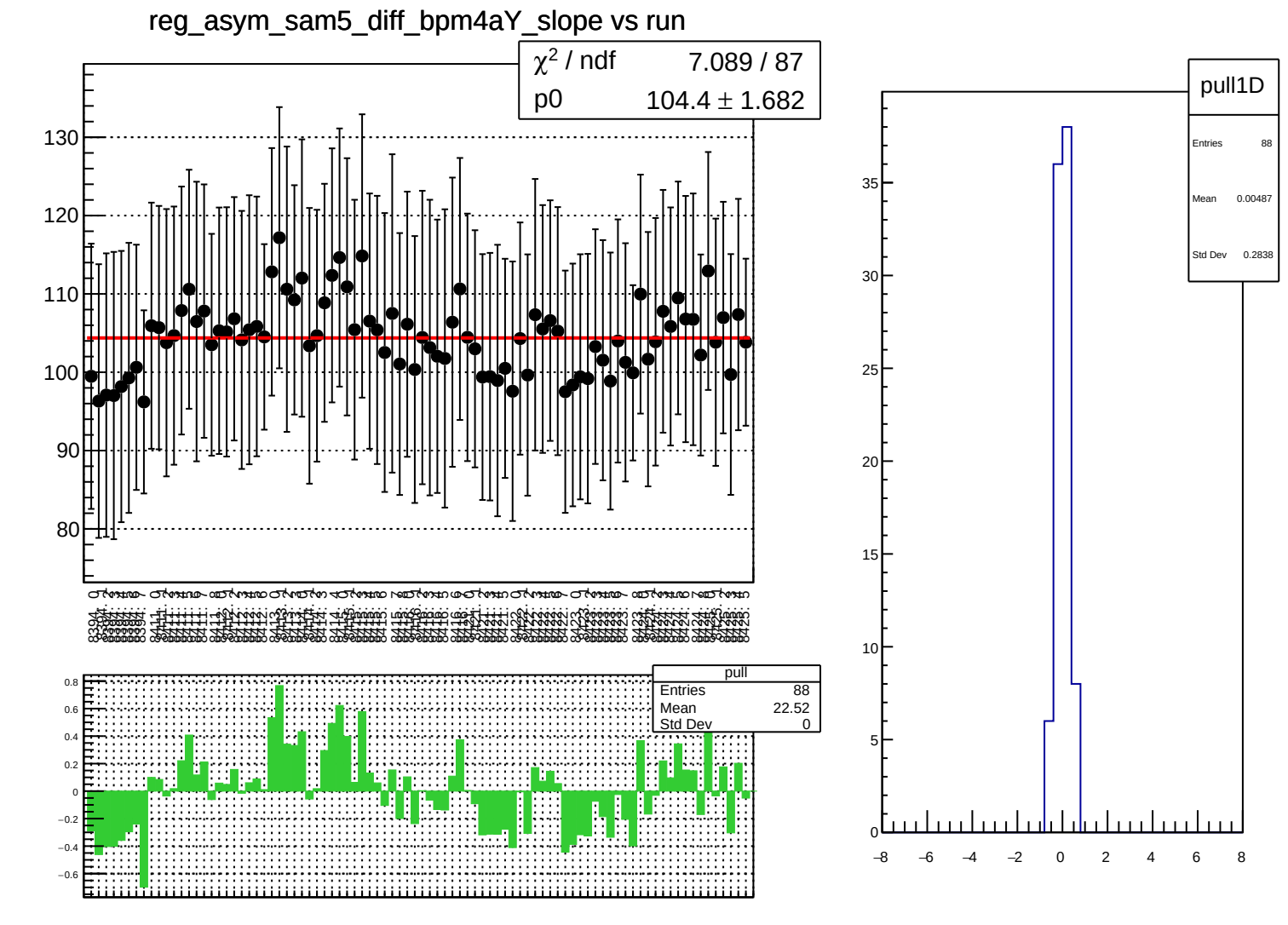

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 1.319 / 87
p0 −143.2 ± 4.858
−80
−100
−120
−140
−160
−180
−200
pull
Entries 88
Mean 1037
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 88
Mean −0.001114
Std Dev 0.1224
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

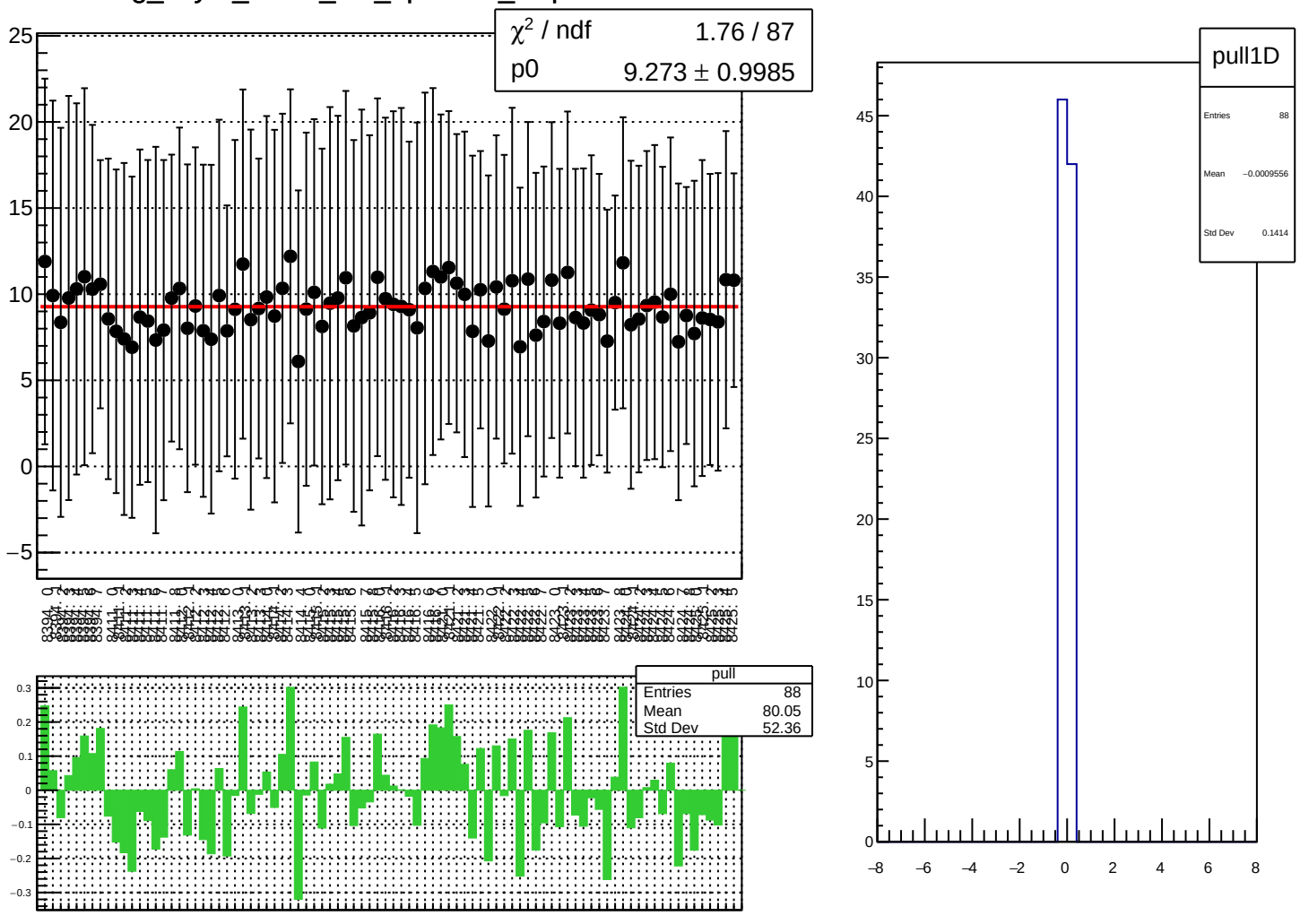

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 1.563 / 87
p0 102.4 ± 8.52
200
150
100
50
0
pull
Entries 88
Mean 247
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

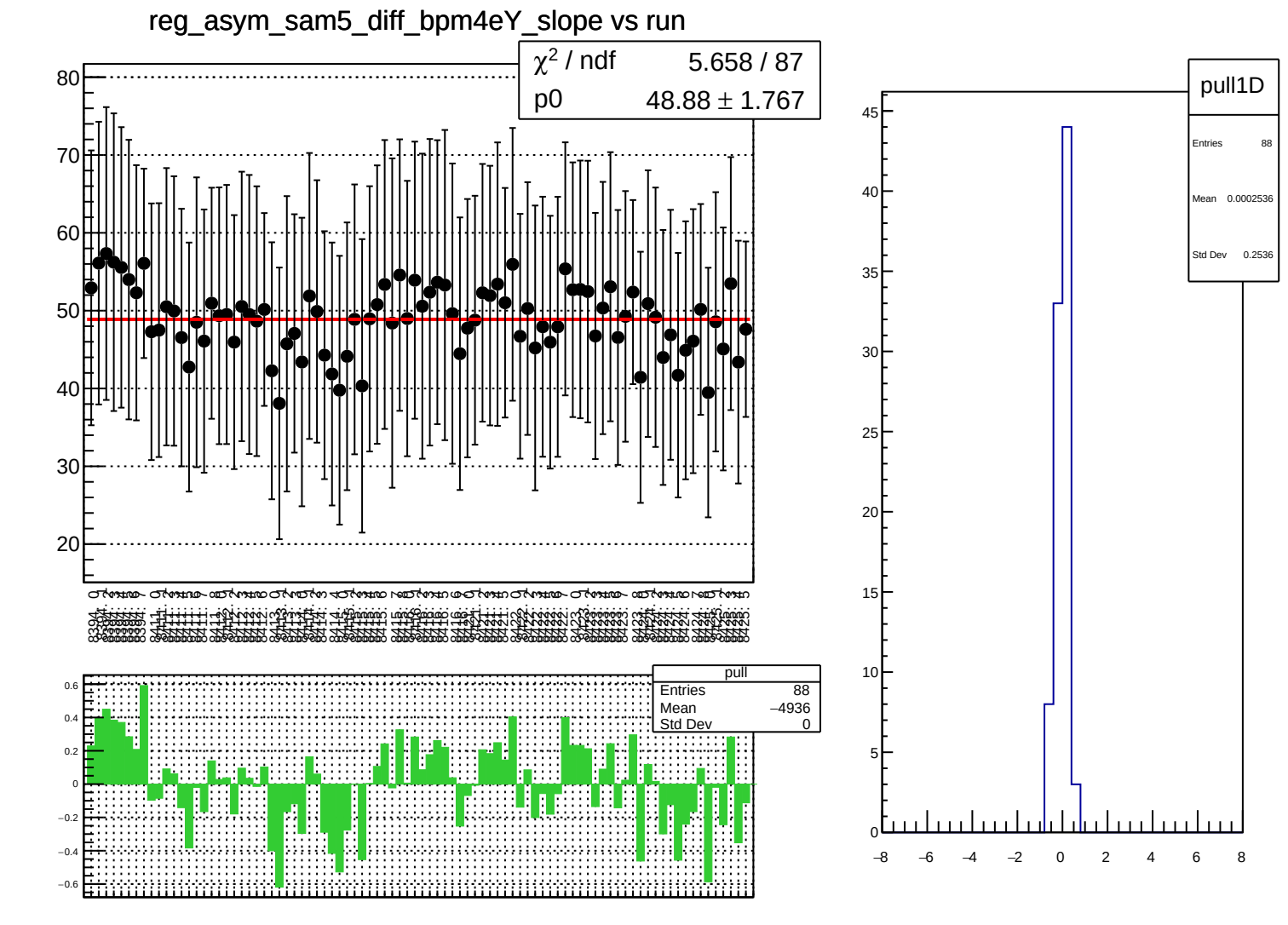

pull1D
Entries 88
Mean −0.009147
Std Dev 0.1329
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

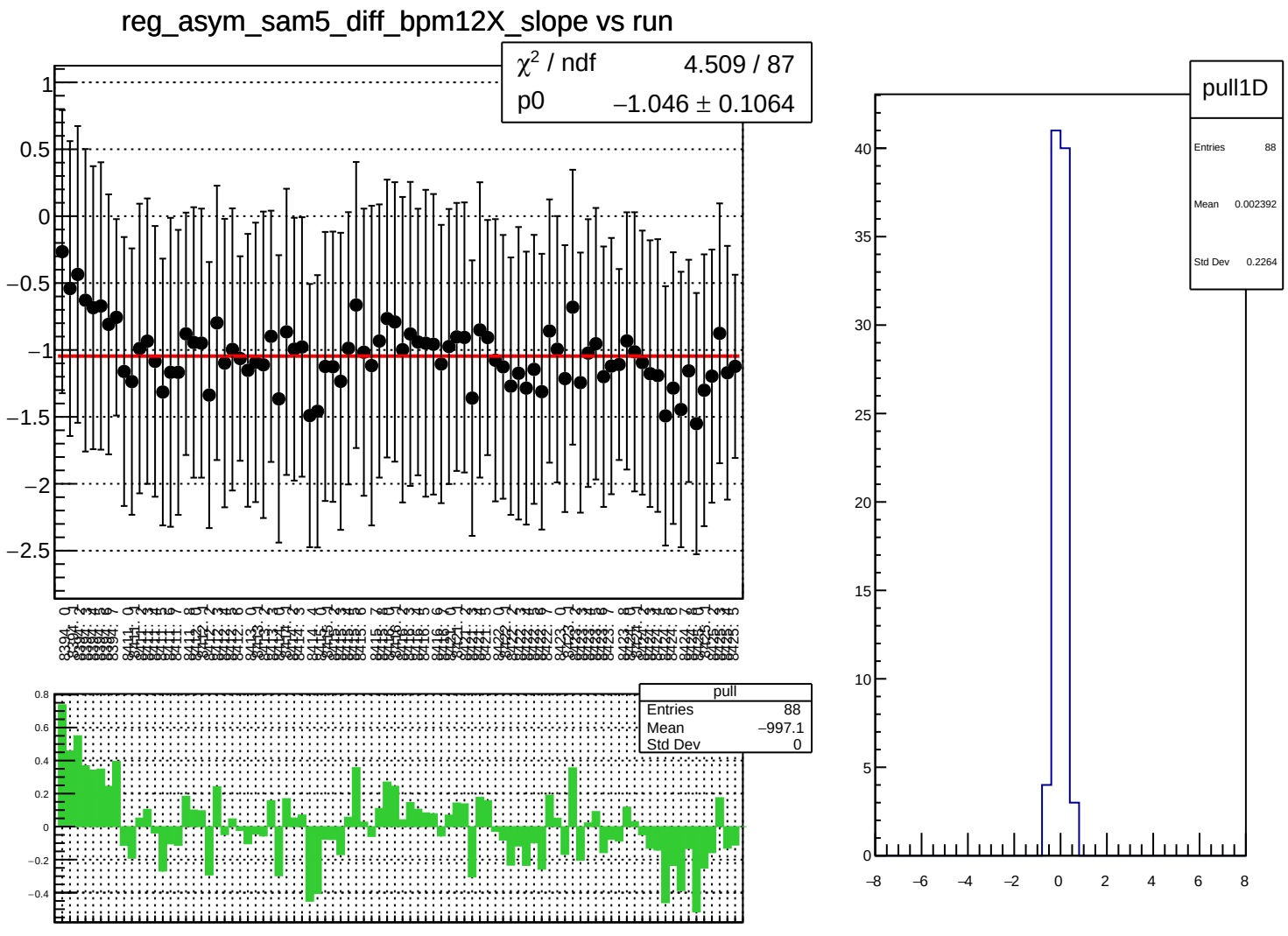

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 1.167 / 87
p0 1.944 ± 0.5114
pull
Entries 88
Mean 327.8
Std Dev 0
pull1D
Entries 88
Mean −0.004885
Std Dev 0.115

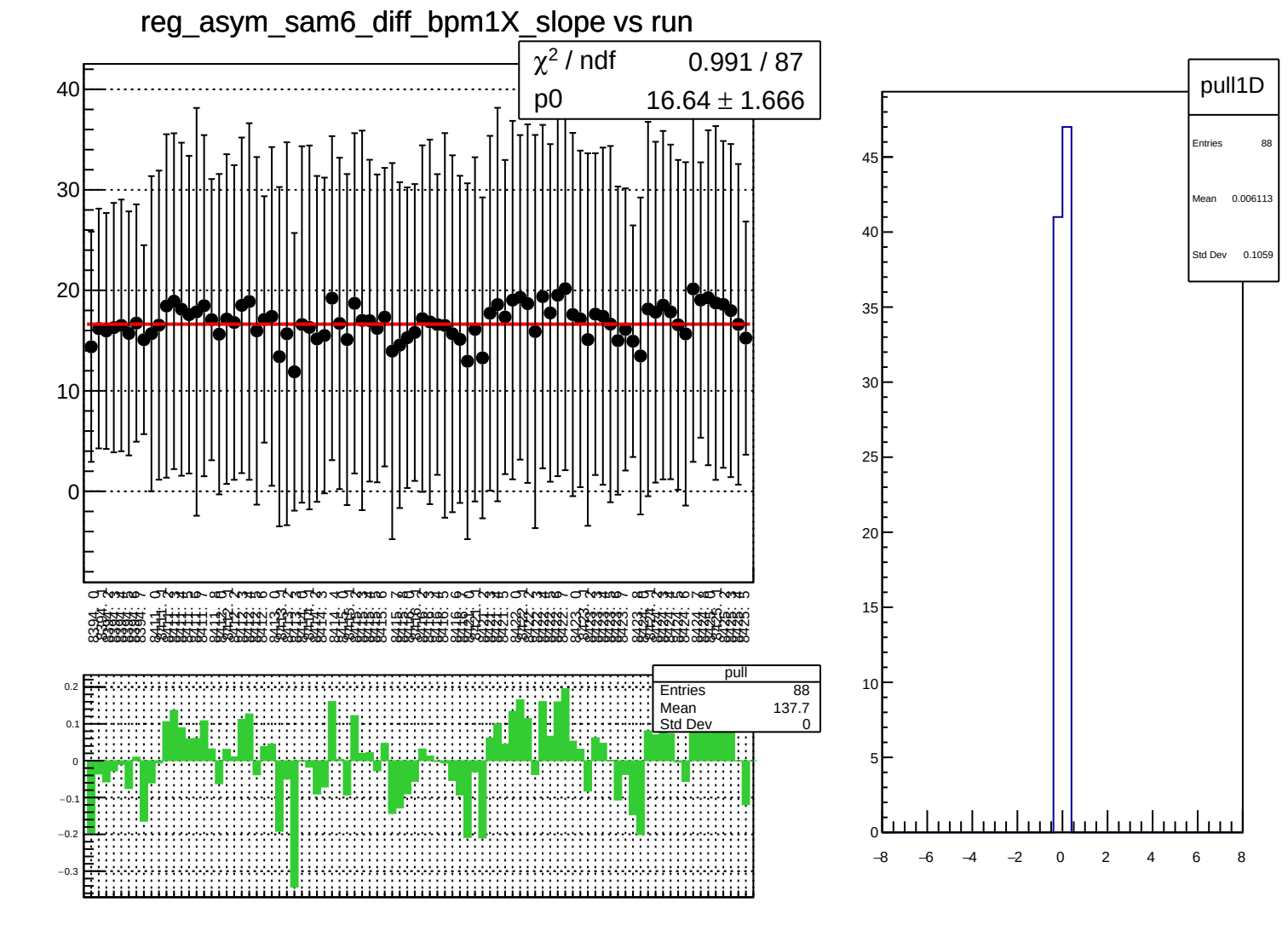

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 2.233 / 87
p0 −1.786 ± 0.8927
pull
Entries 88
Mean −74.7
Std Dev 0
pull1D
Entries 88
Mean 0.001189
Std Dev 0.1593

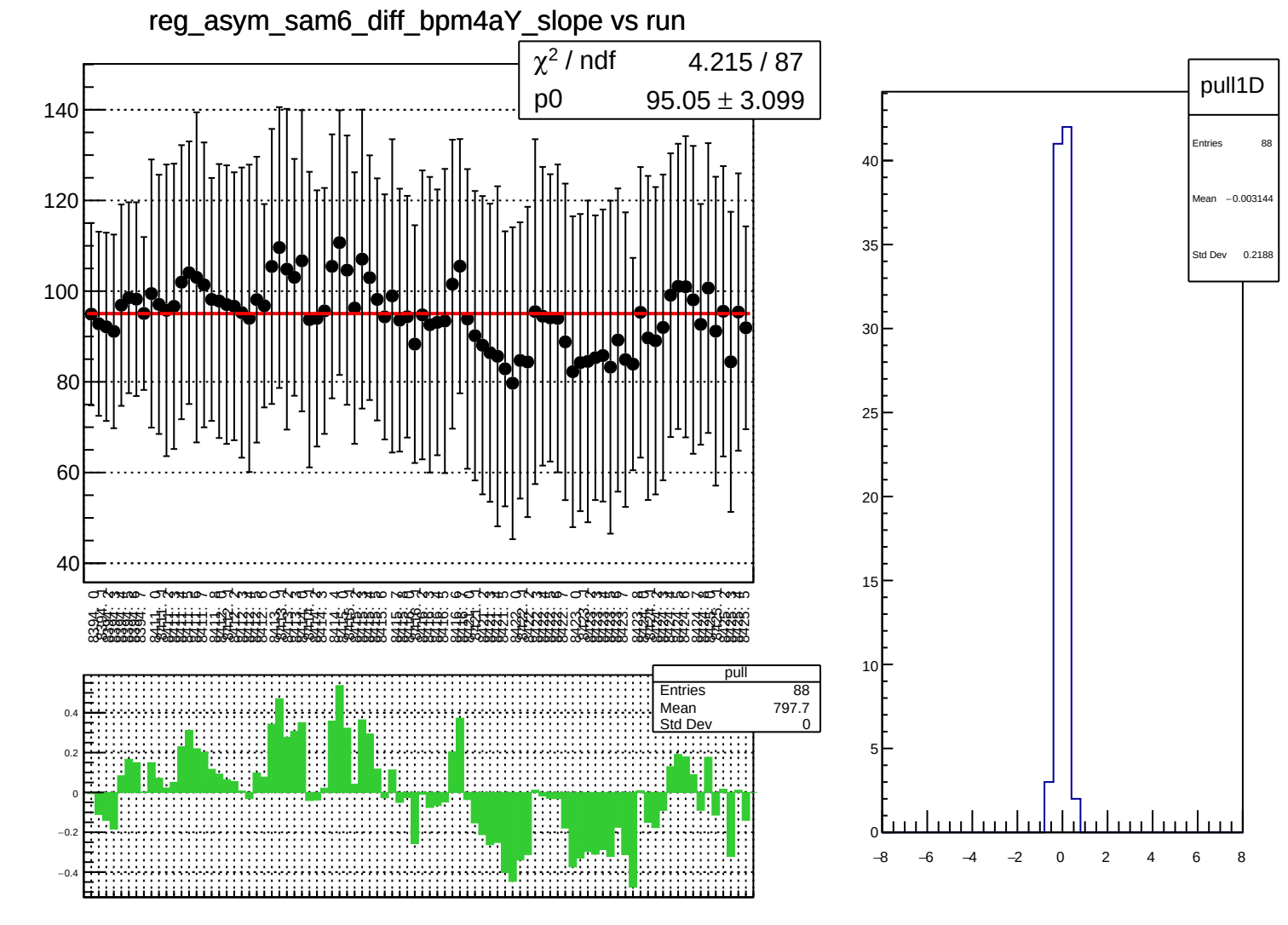

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 7.089 / 87
p0 104.4 ± 1.682
130
120
110
100
90
80
pull
Entries 88
Mean 22.52
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean 0.00487
Std Dev 0.2838
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

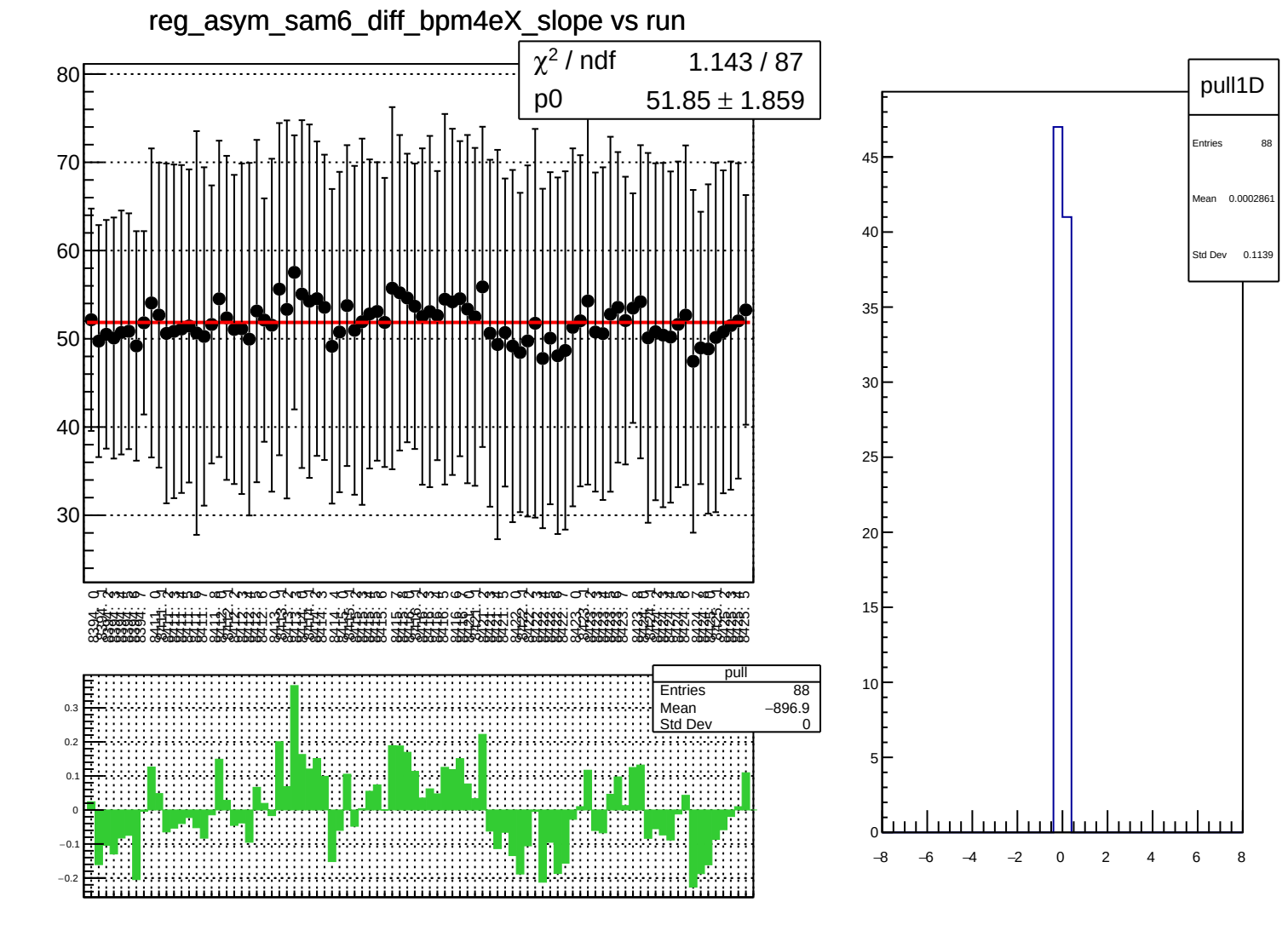

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 1.76 / 87
p0 9.273 ± 0.9985
pull
Entries 88
Mean 80.05
Std Dev 52.36
pull1D
Entries 88
Mean −0.0009556
Std Dev 0.1414

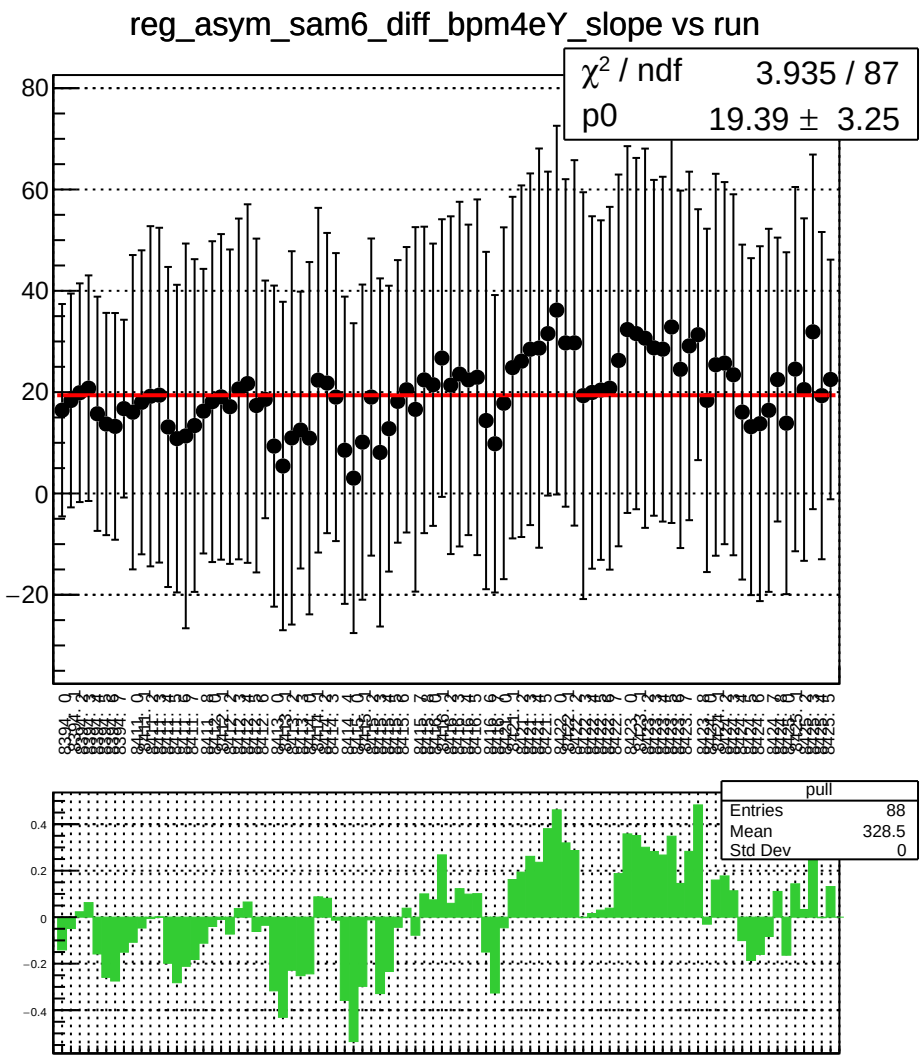

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 5.658 / 87
p0 48.88 ± 1.767
pull
Entries 88
Mean −4936
Std Dev 0
pull1D
Entries 88
Mean 0.0002536
Std Dev 0.2536

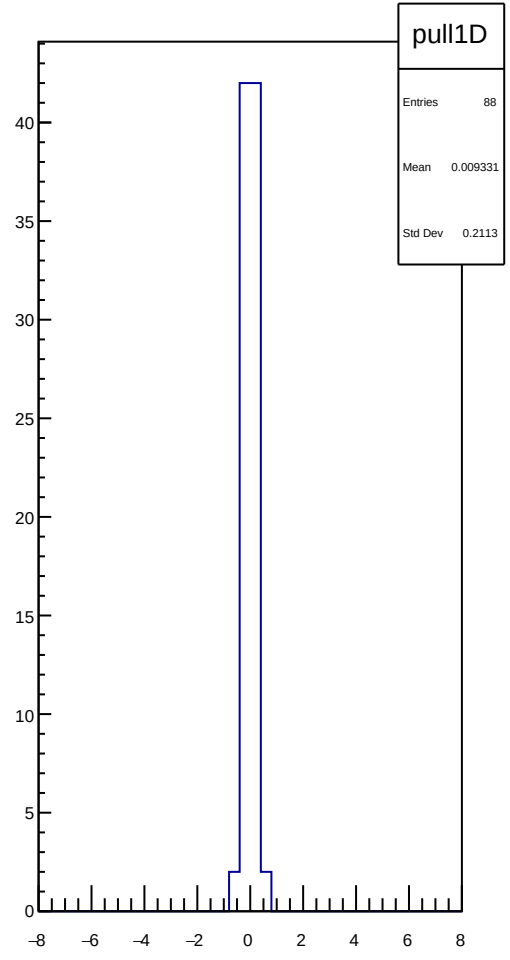

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 4.509 / 87
p0 −1.046 ± 0.1064
pull
Entries 88
Mean −997.1
Std Dev 0
pull1D
Entries 88
Mean 0.002392
Std Dev 0.2264

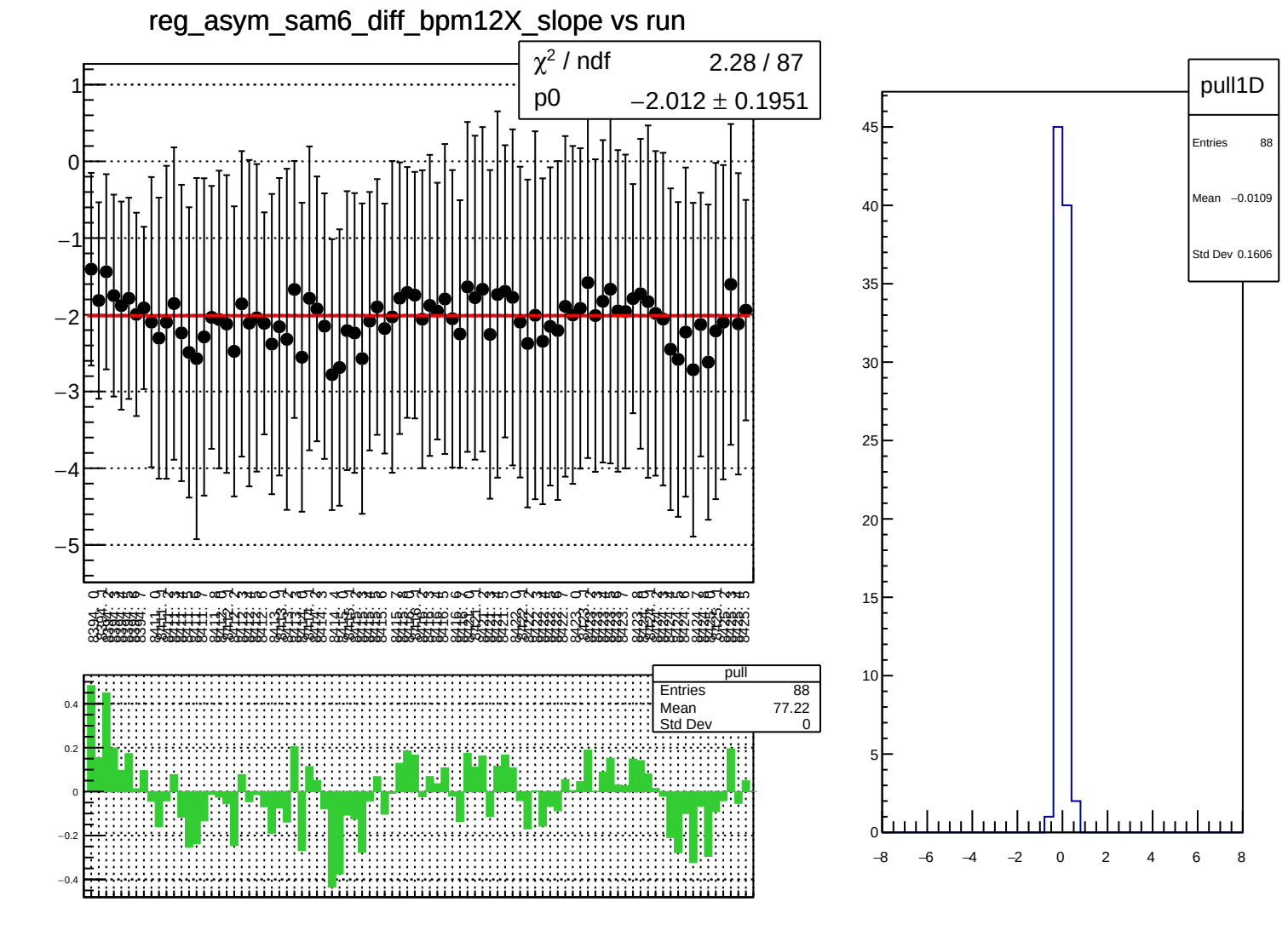

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 0.991 / 87
p0 16.64 ± 1.666
pull
Entries 88
Mean 137.7
Std Dev 0
pull1D
Entries 88
Mean 0.006113
Std Dev 0.1059

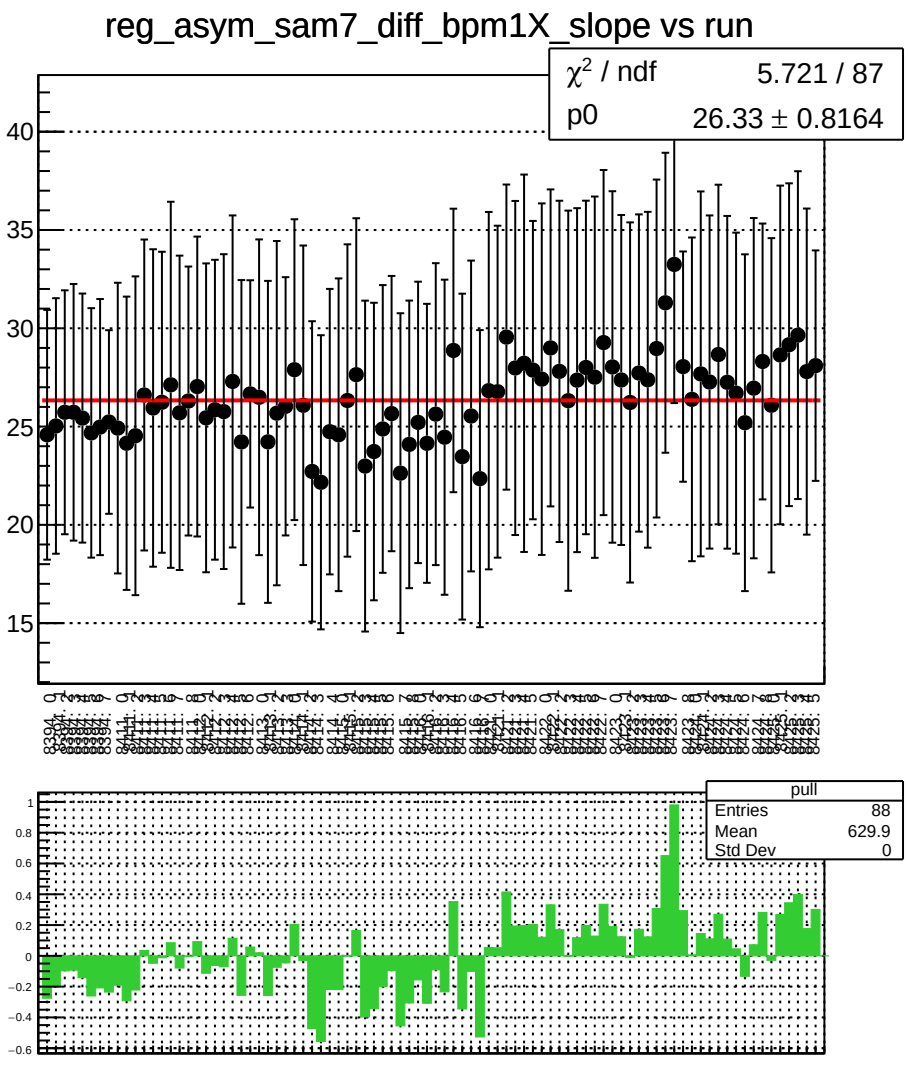

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 4.215 / 87
p0 95.05 ± 3.099
140
120
100
80
60
40
pull
Entries 88
Mean 797.7
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 88
Mean −0.003144
Std Dev 0.2188
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

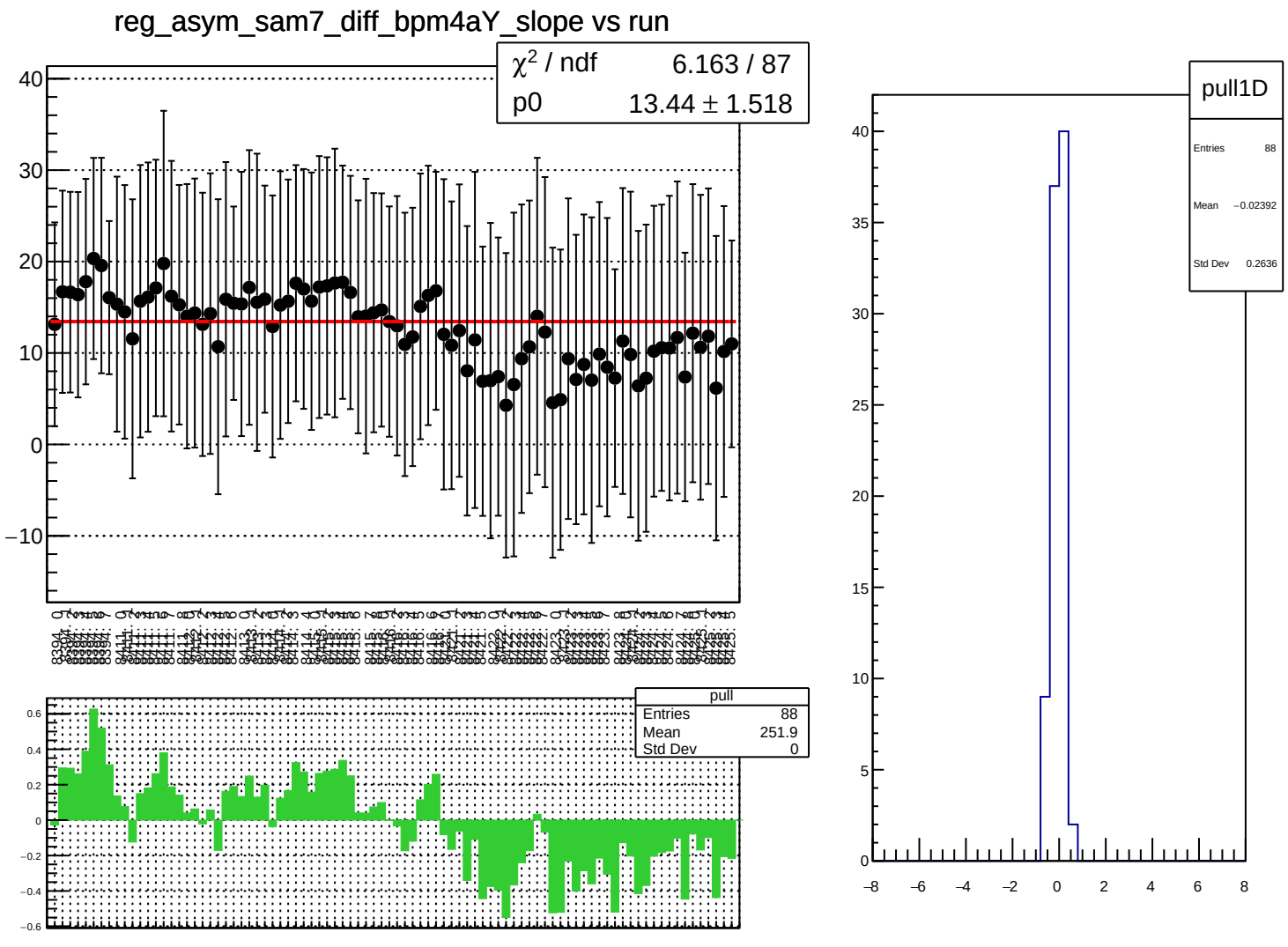

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 1.143 / 87
p0 51.85 ± 1.859
pull
Entries 88
Mean −896.9
Std Dev 0
pull1D
Entries 88
Mean 0.0002861
Std Dev 0.1139

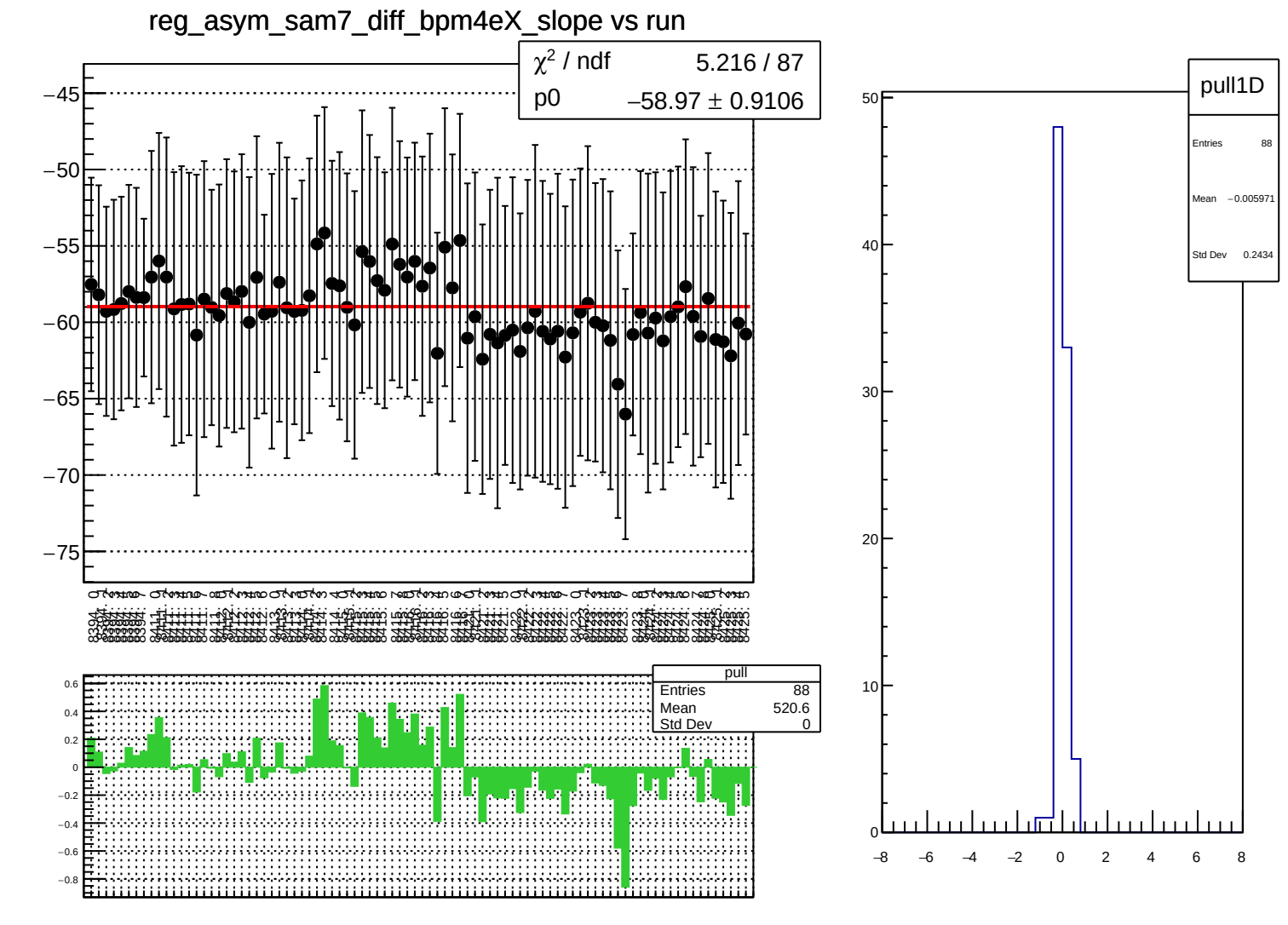

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 3.935 / 87
p0 19.39 ± 3.25
pull
Entries 88
Mean 328.5
Std Dev 0

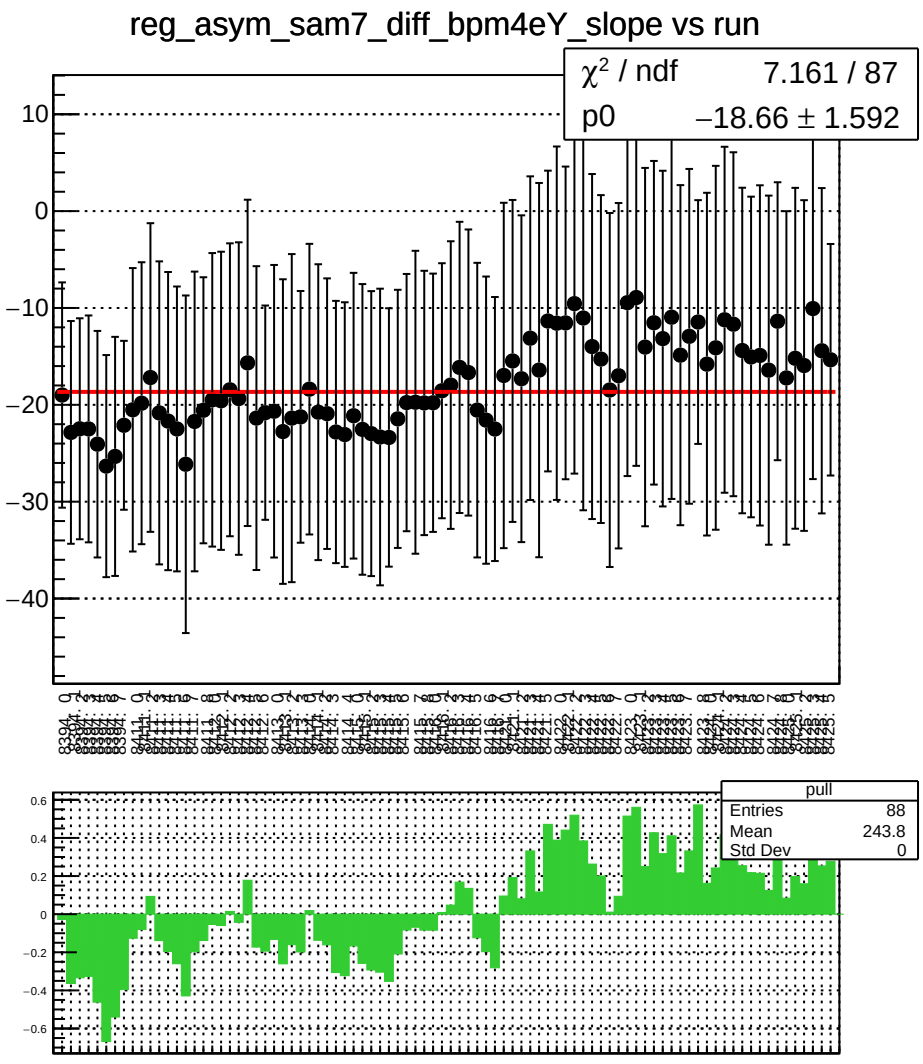

pull1D
Entries 88
Mean 0.009331
Std Dev 0.2113

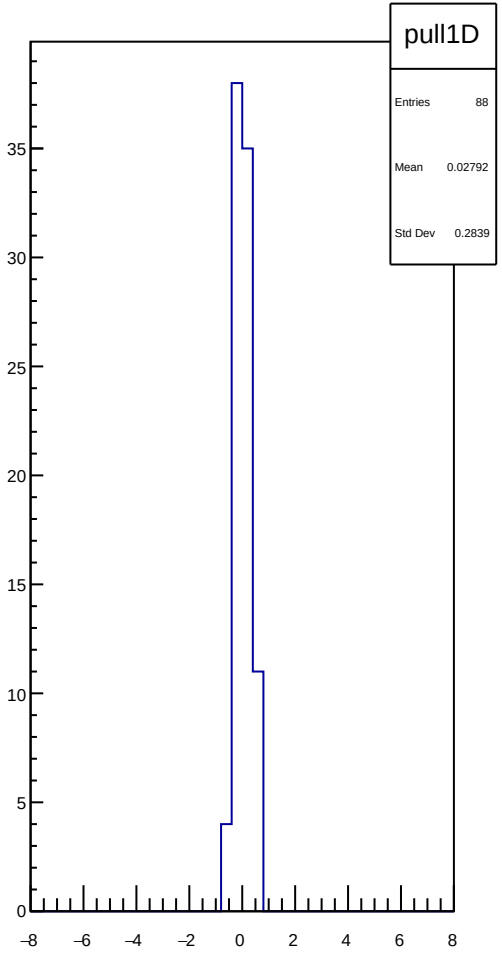

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 2.28 / 87
p0 −2.012 ± 0.1951
pull
Entries 88
Mean 77.22
Std Dev 0
pull1D
Entries 88
Mean −0.0109
Std Dev 0.1606

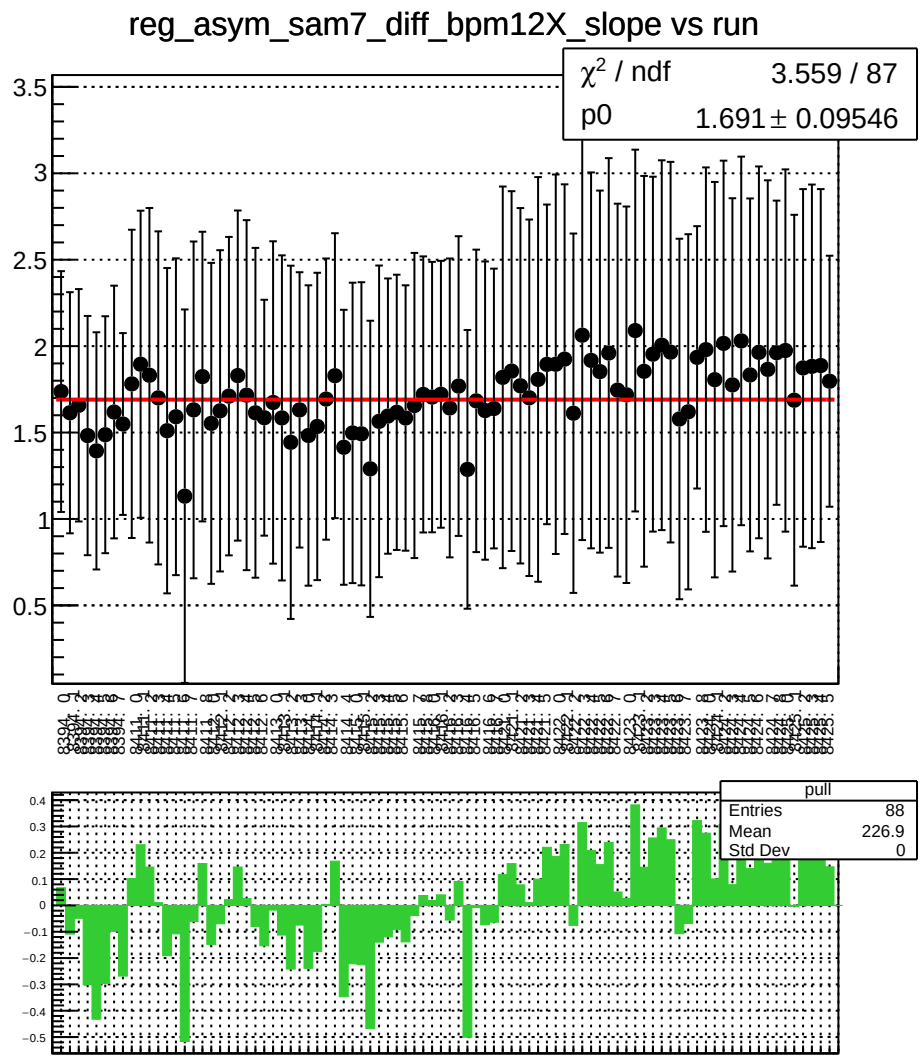

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 5.721 / 87
p0 26.33 ± 0.8164
pull
Entries 88
Mean 629.9
Std Dev 0
pull1D
Entries 88
Mean 0.006105
Std Dev 0.2549

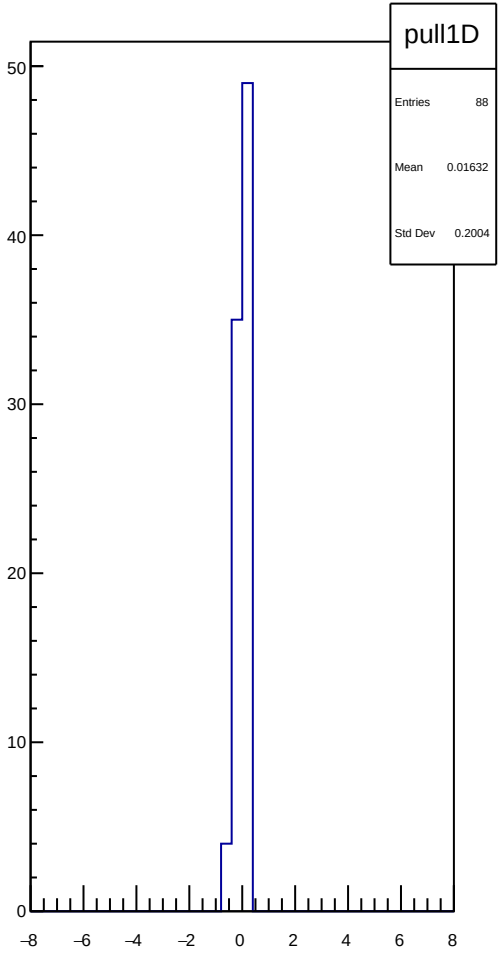

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 6.163 / 87
p0 13.44 ± 1.518
pull
Entries 88
Mean 251.9
Std Dev 0
pull1D
Entries 88
Mean −0.02392
Std Dev 0.2636

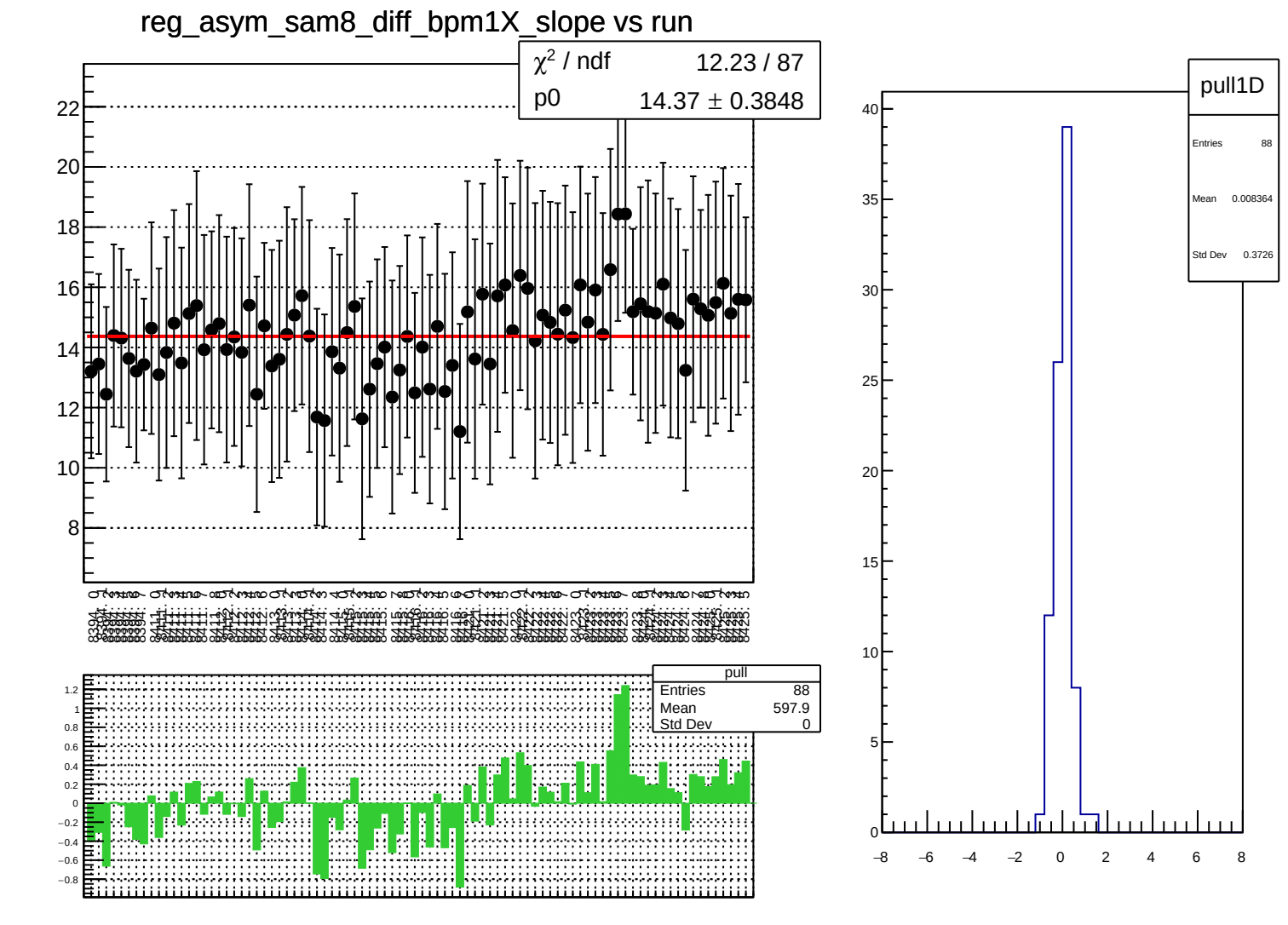

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 5.216 / 87
p0 −58.97 ± 0.9106
pull
Entries 88
Mean 520.6
Std Dev 0
pull1D
Entries 88
Mean −0.005971
Std Dev 0.2434

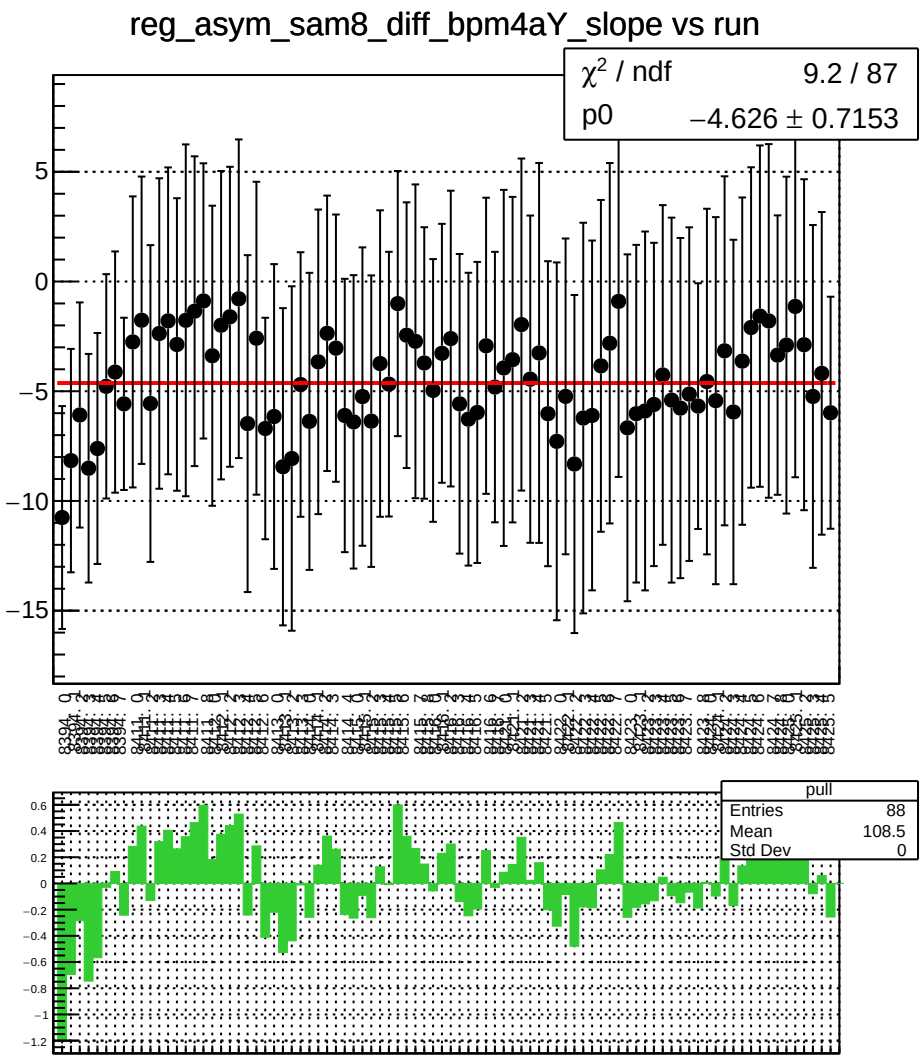

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 7.161 / 87
p0 −18.66 ± 1.592
pull
Entries 88
Mean 243.8
Std Dev 0

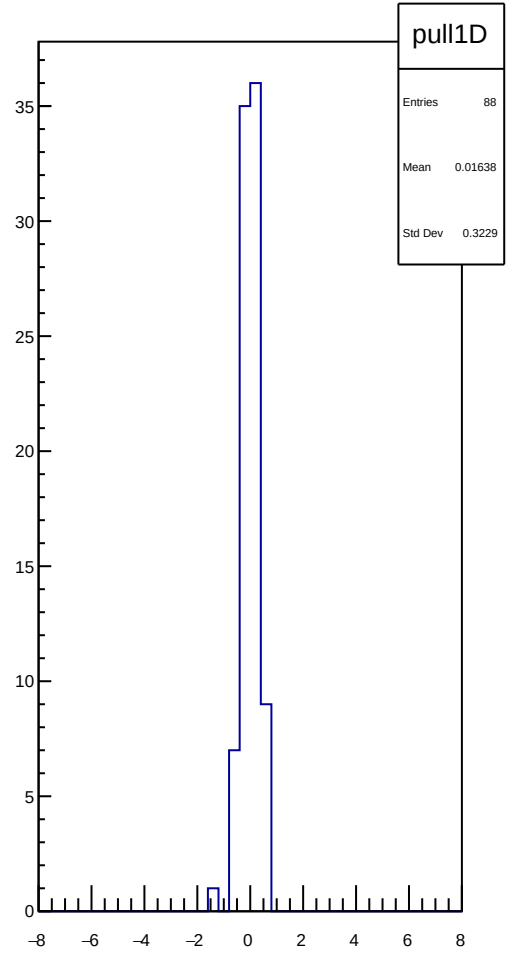

pull1D
Entries 88
Mean 0.02792
Std Dev 0.2839

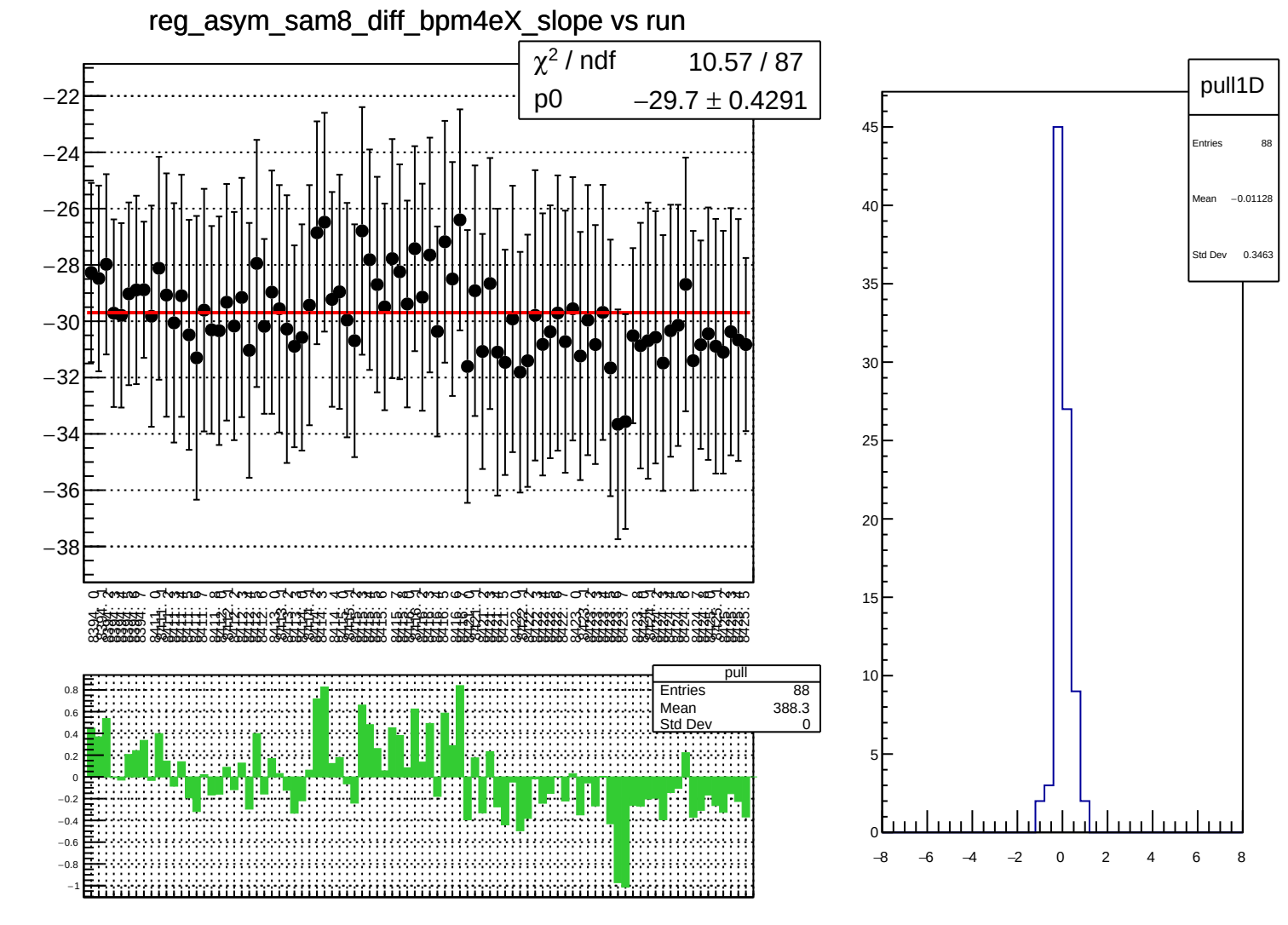

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 3.559 / 87
p0 1.691 ± 0.09546
pull
Entries 88
Mean 226.9
Std Dev 0

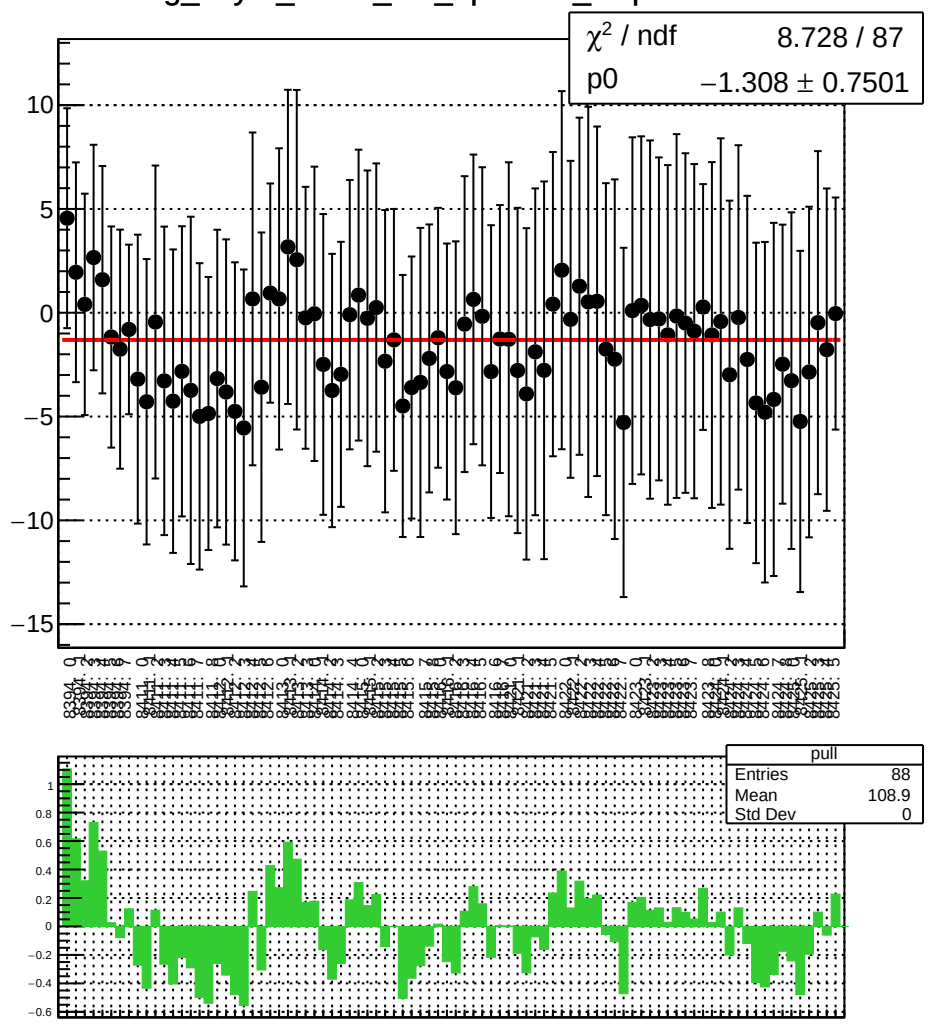

pull1D
Entries 88
Mean 0.01632
Std Dev 0.2004

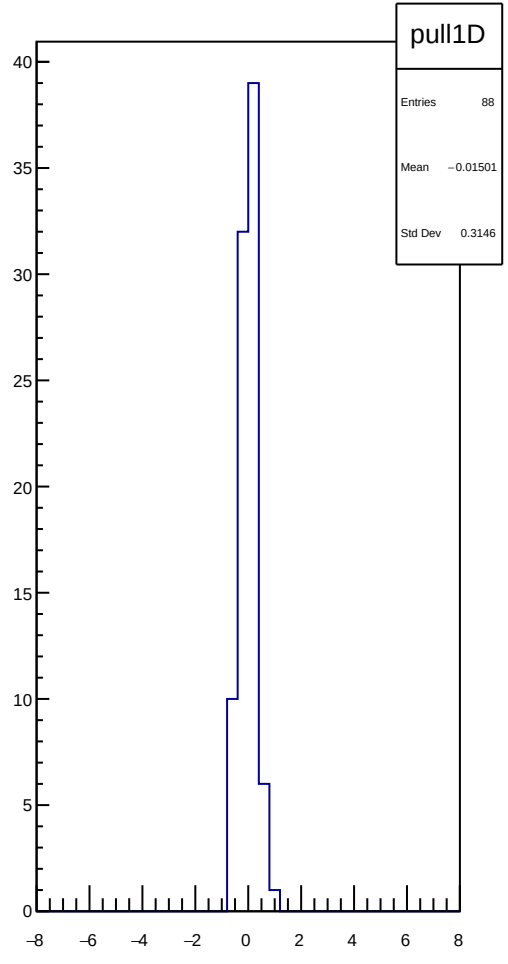

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 12.23 / 87
p0 14.37 ± 0.3848
pull
Entries 88
Mean 597.9
Std Dev 0
pull1D
Entries 88
Mean 0.008364
Std Dev 0.3726

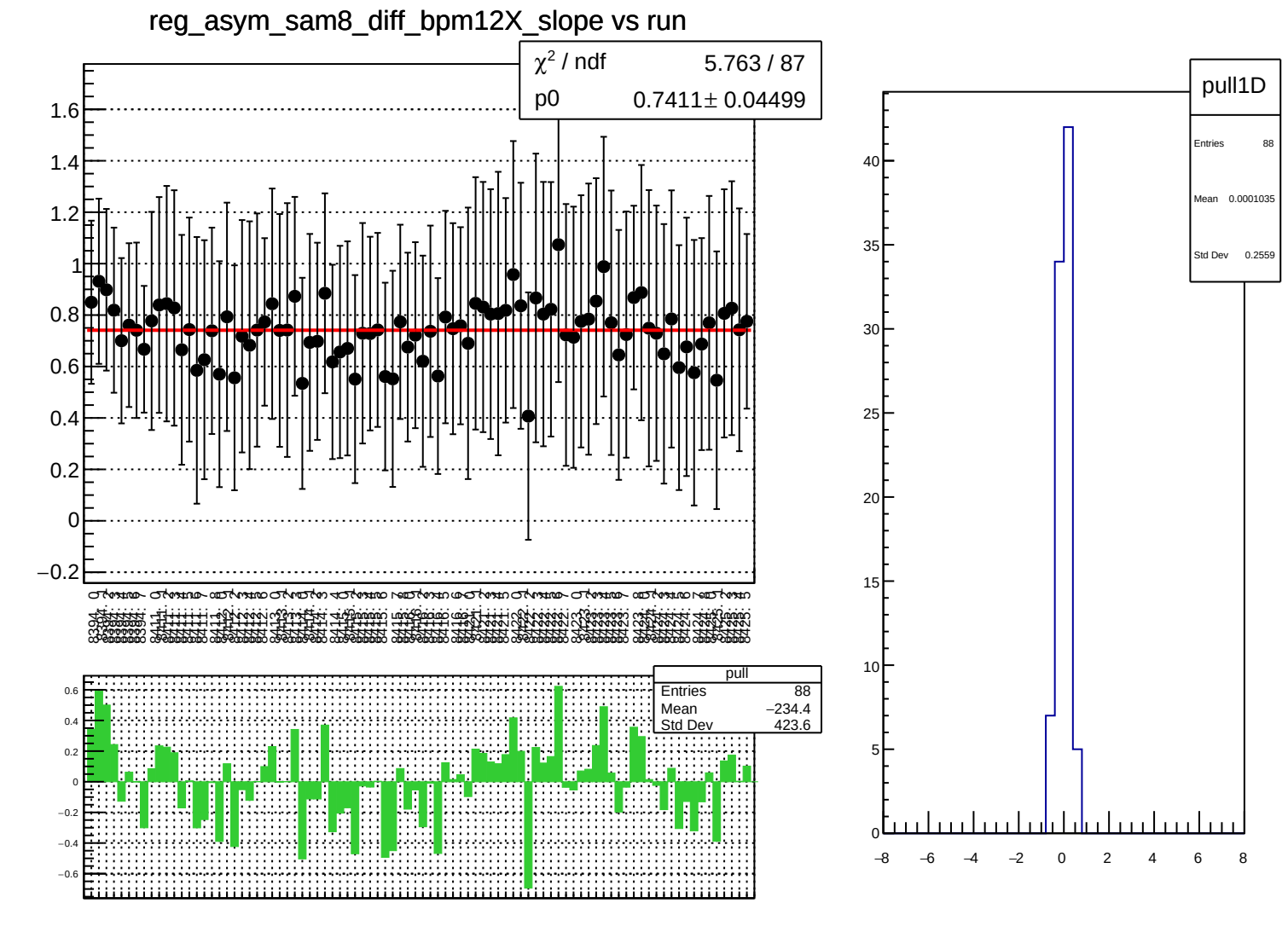

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 9.2 / 87
p0 −4.626 ± 0.7153
pull
Entries 88
Mean 108.5
Std Dev 0

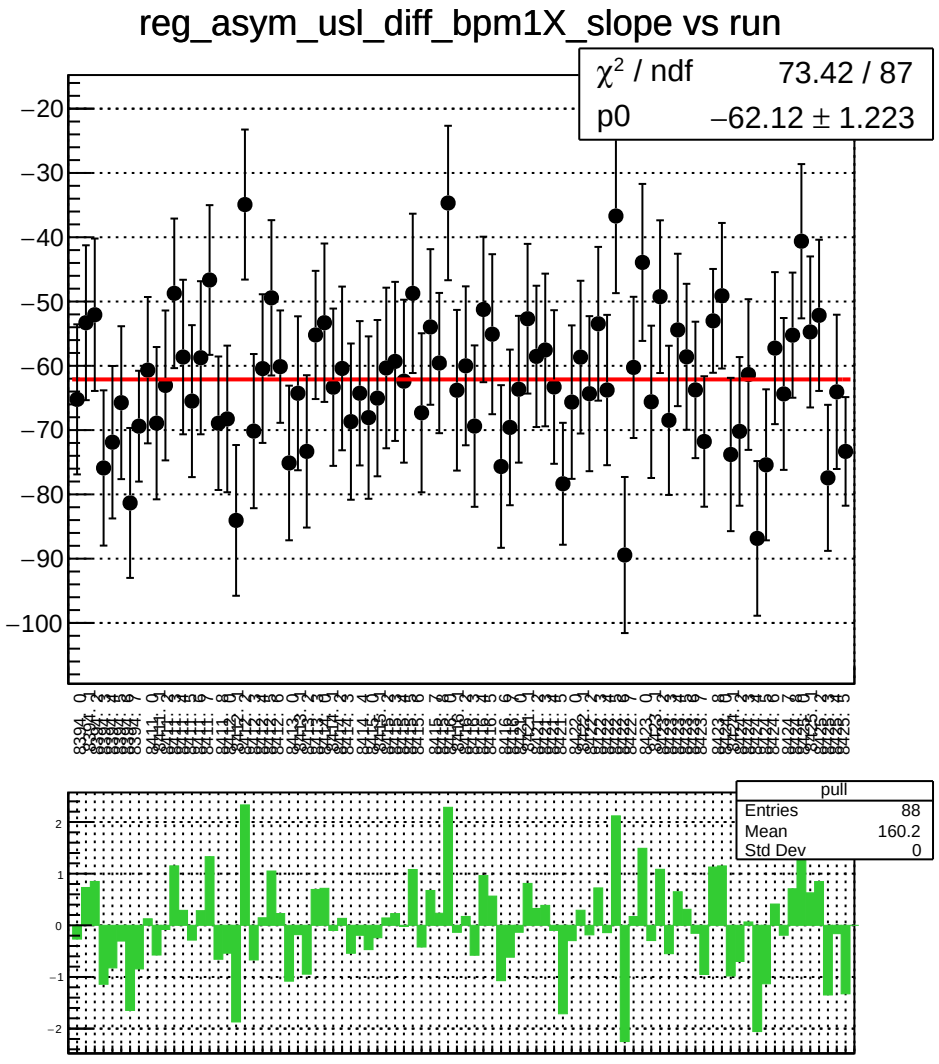

pull1D
Entries 88
Mean 0.01638
Std Dev 0.3229

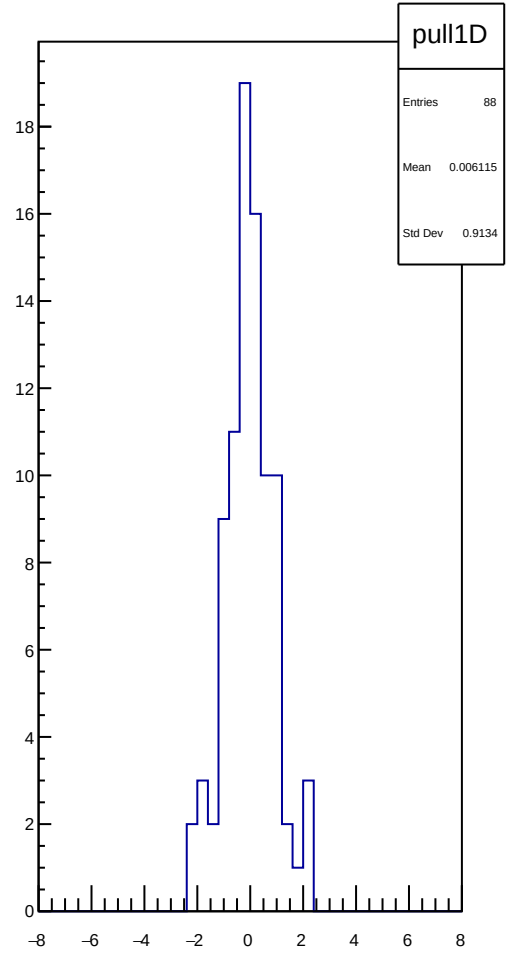

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 10.57 / 87
p0 −29.7 ± 0.4291
pull
Entries 88
Mean 388.3
Std Dev 0
pull1D
Entries 88
Mean −0.01128
Std Dev 0.3463

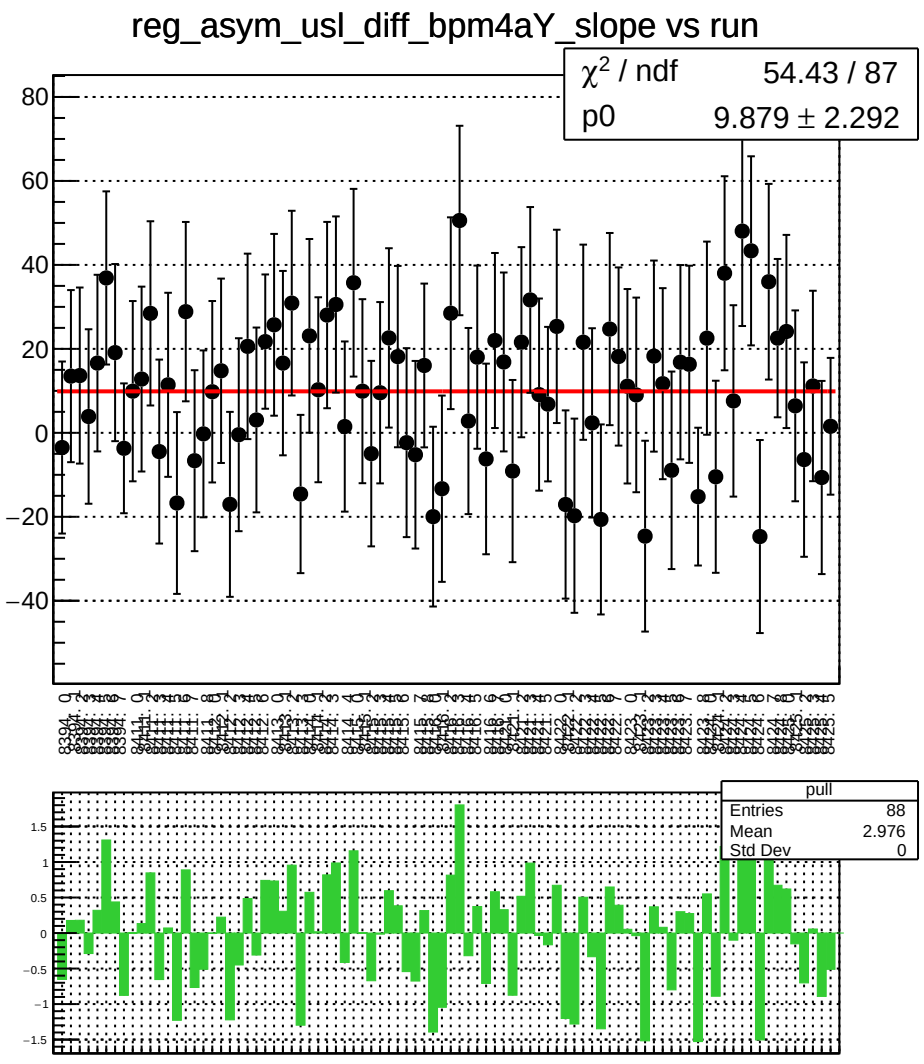

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 8.728 / 87
p0 −1.308 ± 0.7501
pull
Entries 88
Mean 108.9
Std Dev 0

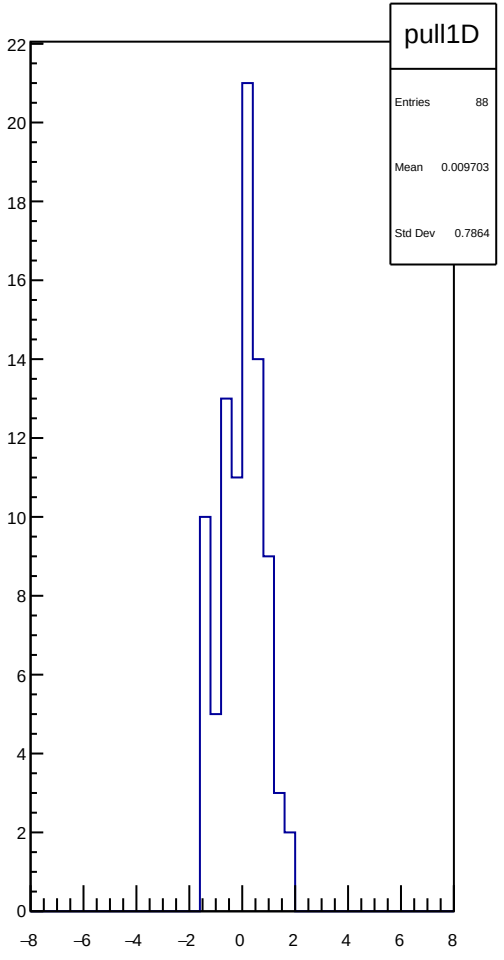

pull1D
Entries 88
Mean −0.01501
Std Dev 0.3146

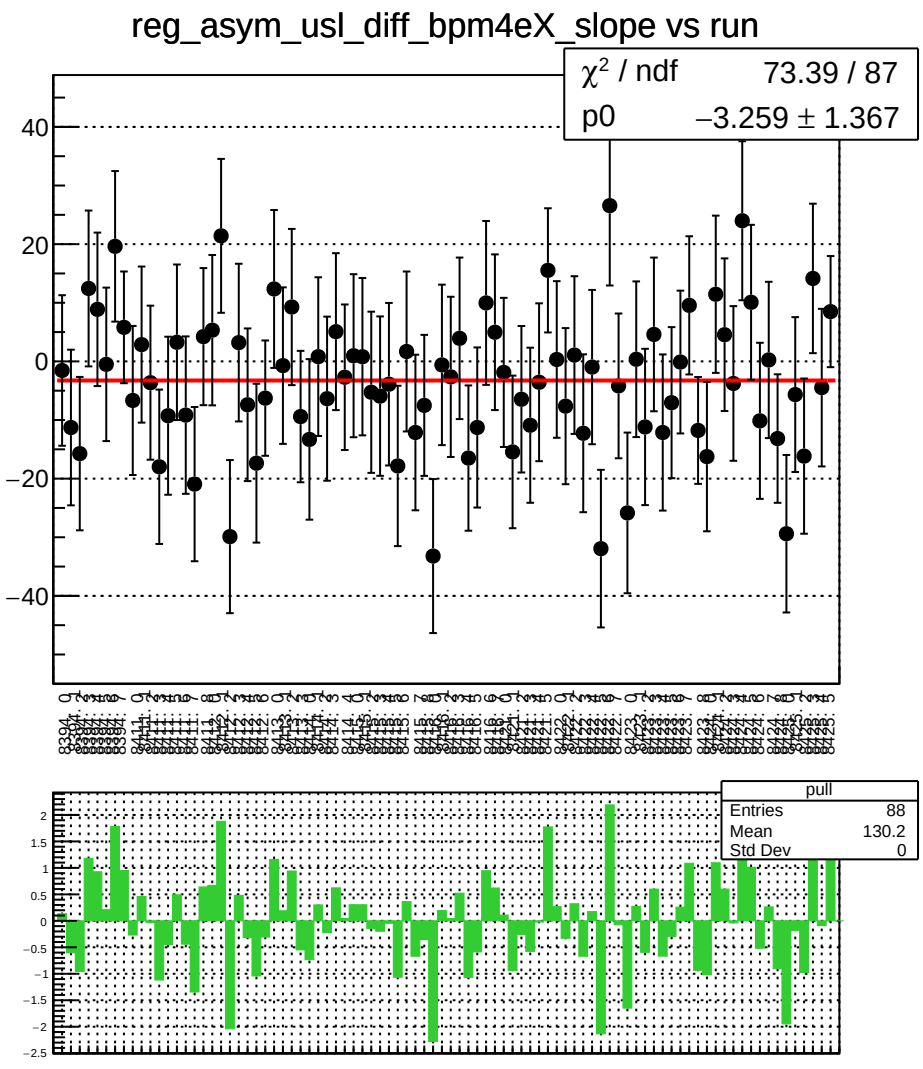

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 5.763 / 87
p0 0.7411± 0.04499
pull
Entries 88
Mean −234.4
Std Dev 423.6
pull1D
Entries 88
Mean 0.0001035
Std Dev 0.2559

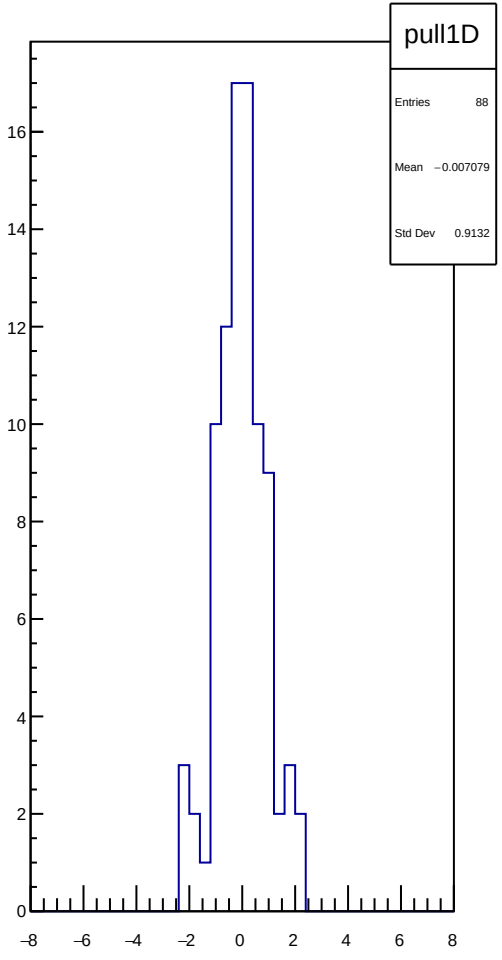

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 73.42 / 87
p0 −62.12 ± 1.223
pull
Entries 88
Mean 160.2
Std Dev 0

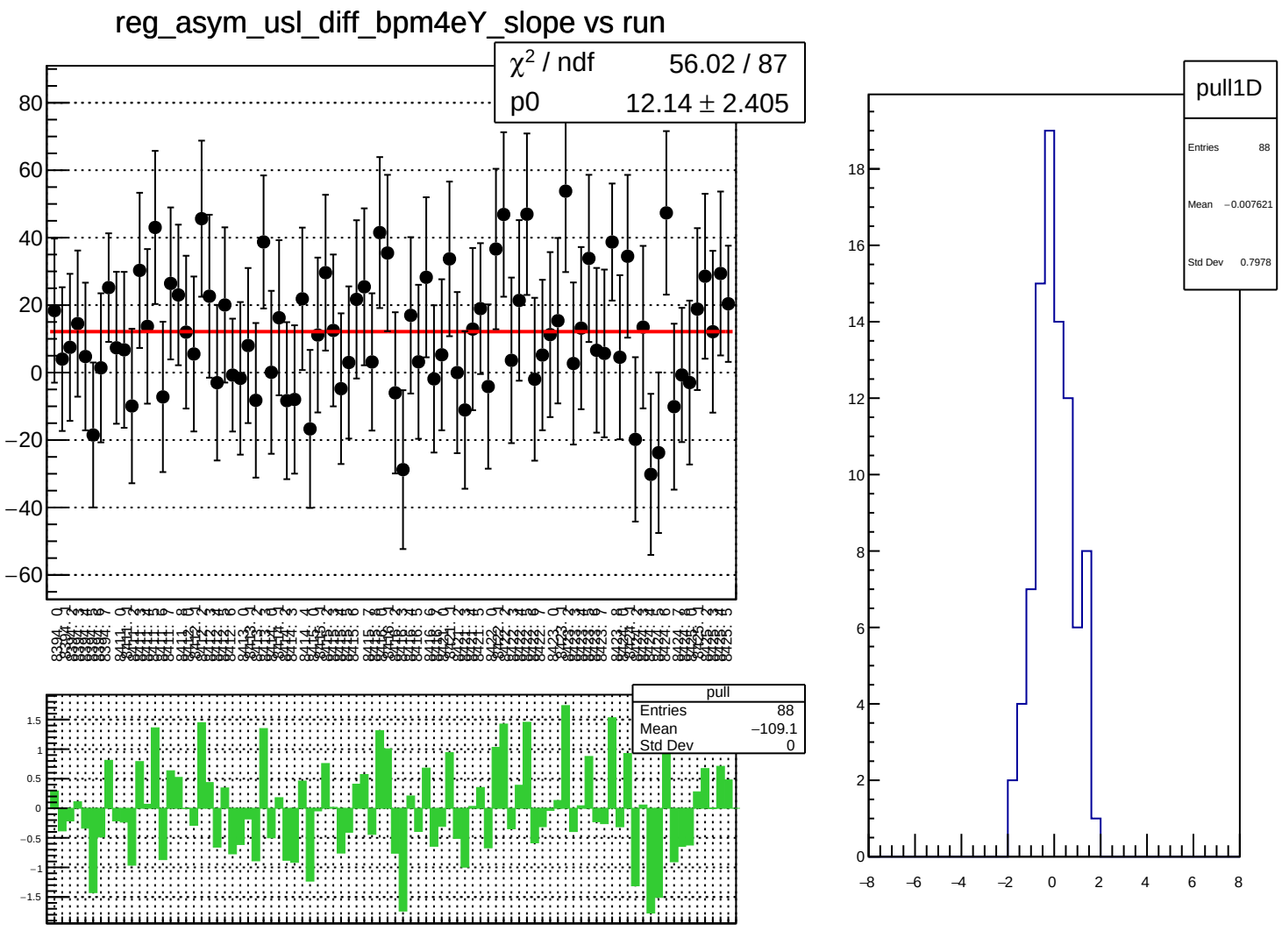

pull1D
Entries 88
Mean 0.006115
Std Dev 0.9134

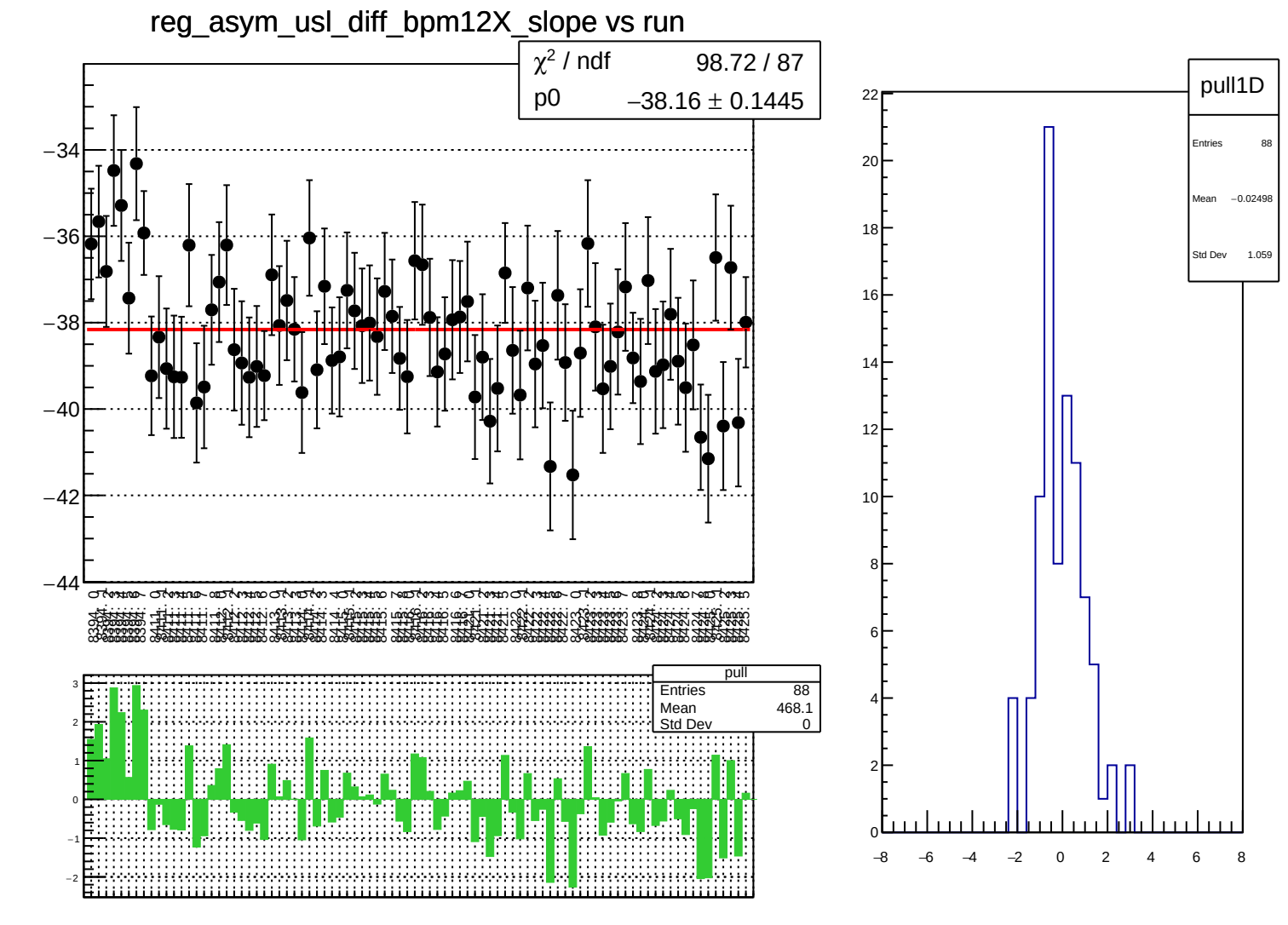

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 54.43 / 87
p0 9.879 ± 2.292
pull
Entries 88
Mean 2.976
Std Dev 0

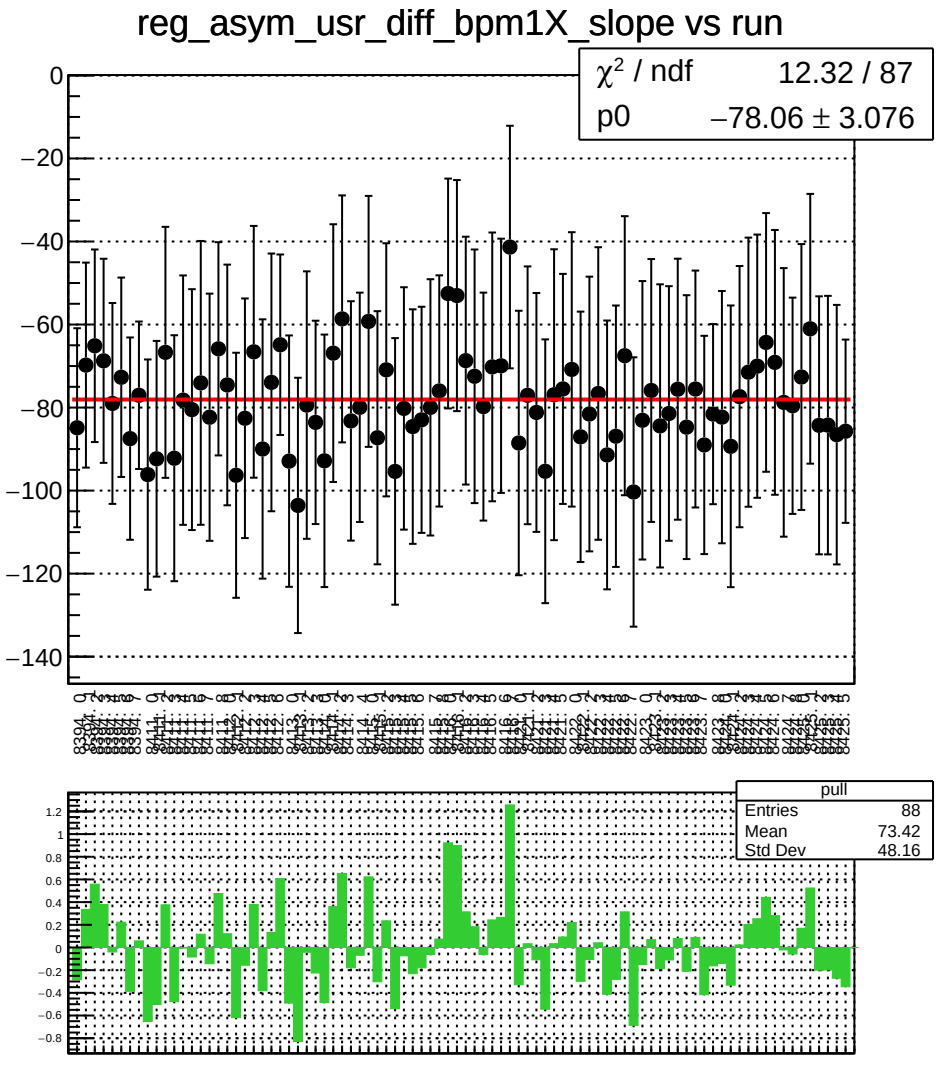

pull1D
Entries 88
Mean 0.009703
Std Dev 0.7864

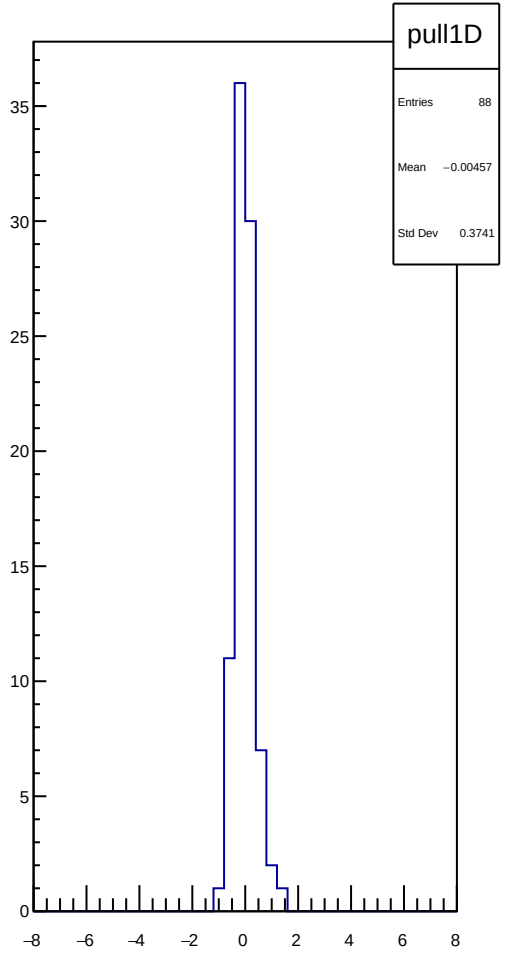

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 73.39 / 87
p0 −3.259 ± 1.367
pull
Entries 88
Mean 130.2
Std Dev 0

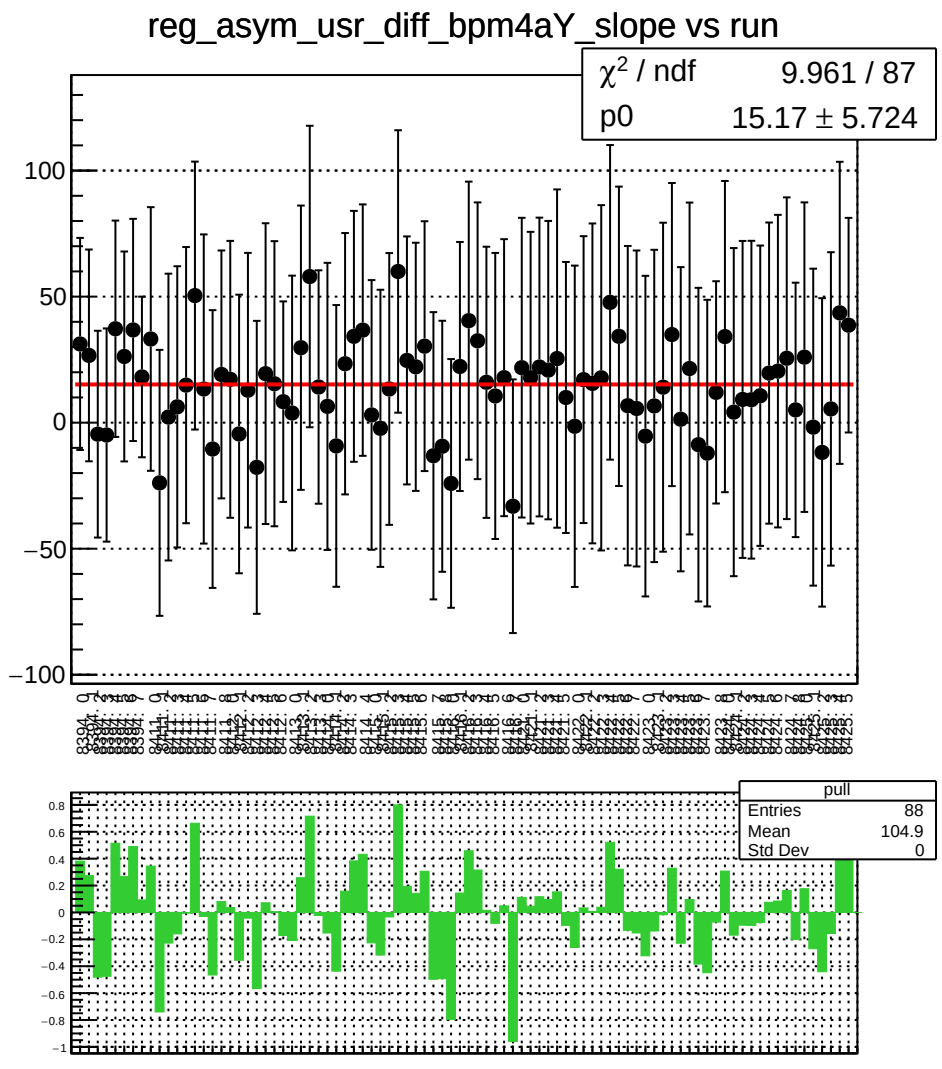

pull1D
Entries 88
Mean −0.007079
Std Dev 0.9132

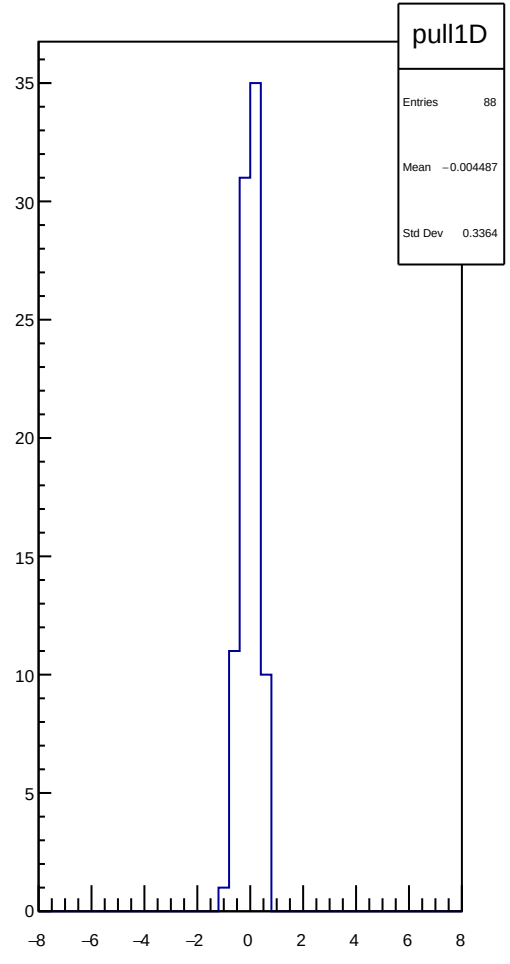

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 56.02 / 87
p0 12.14 ± 2.405
pull
Entries 88
Mean −109.1
Std Dev 0
pull1D
Entries 88
Mean −0.007621
Std Dev 0.7978

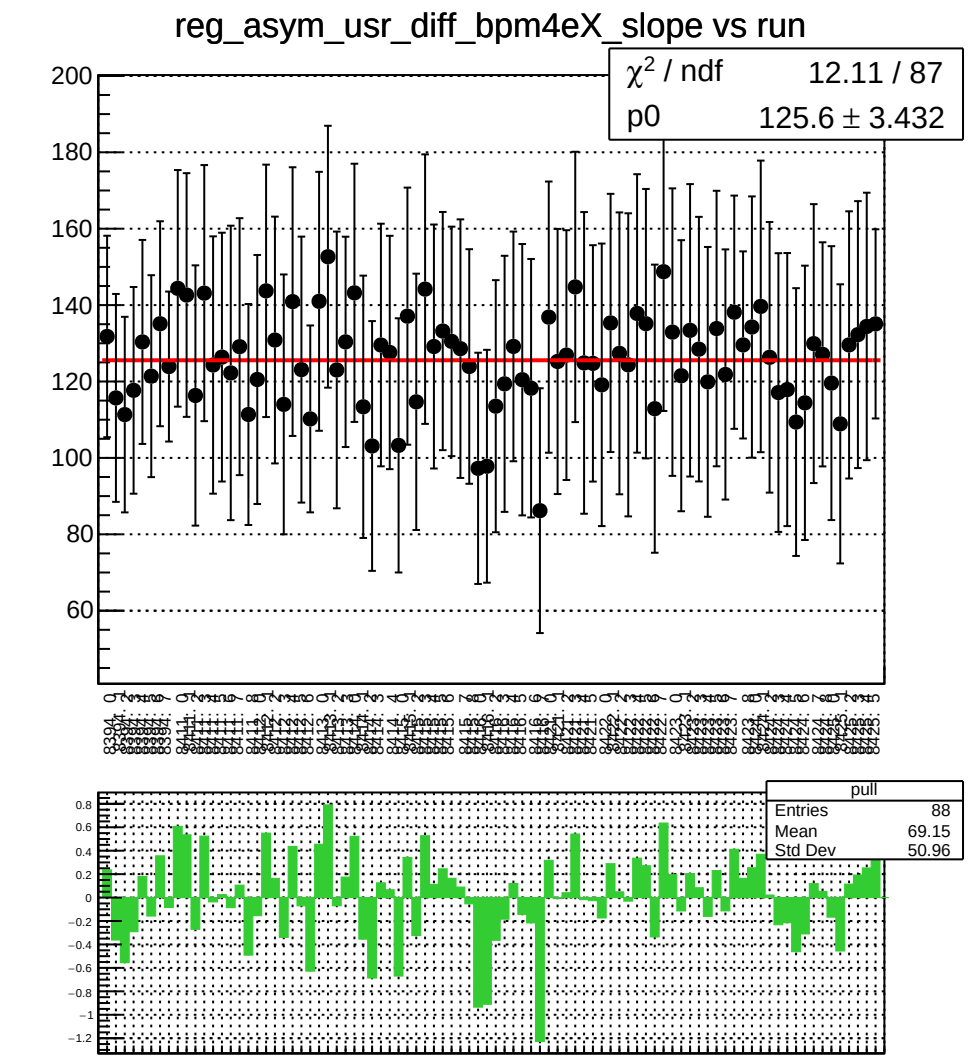

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 98.72 / 87
p0 −38.16 ± 0.1445
pull
Entries 88
Mean 468.1
Std Dev 0
pull1D
Entries 88
Mean −0.02498
Std Dev 1.059

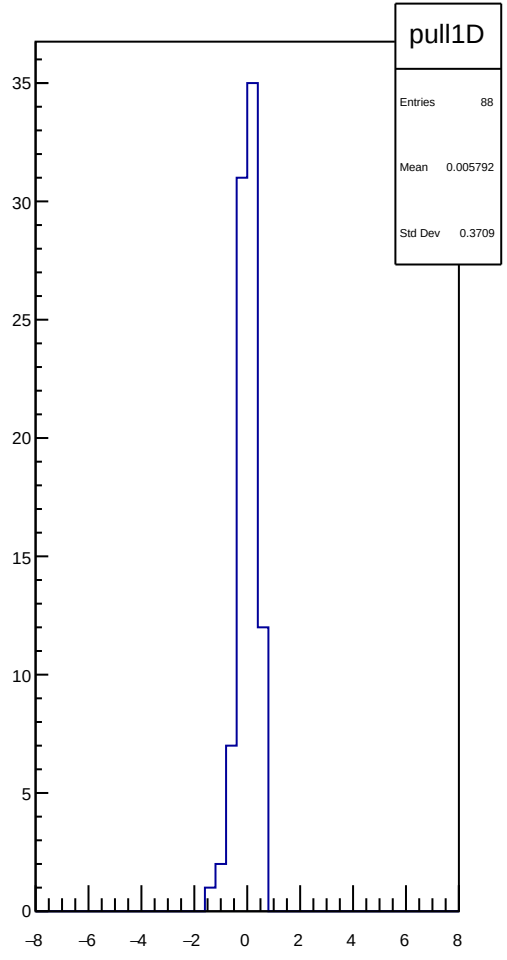

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 12.32 / 87
p0 −78.06 ± 3.076
pull
Entries 88
Mean 73.42
Std Dev 48.16

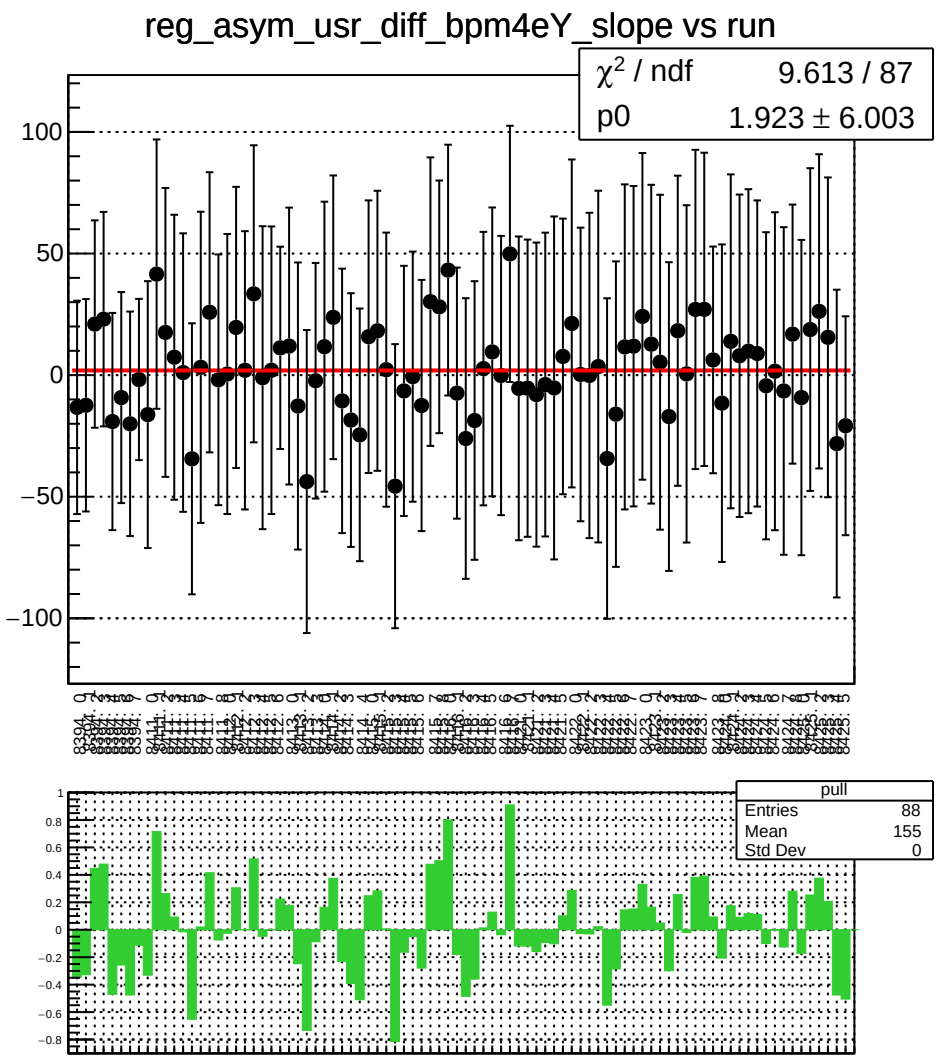

pull1D
Entries 88
Mean −0.00457
Std Dev 0.3741

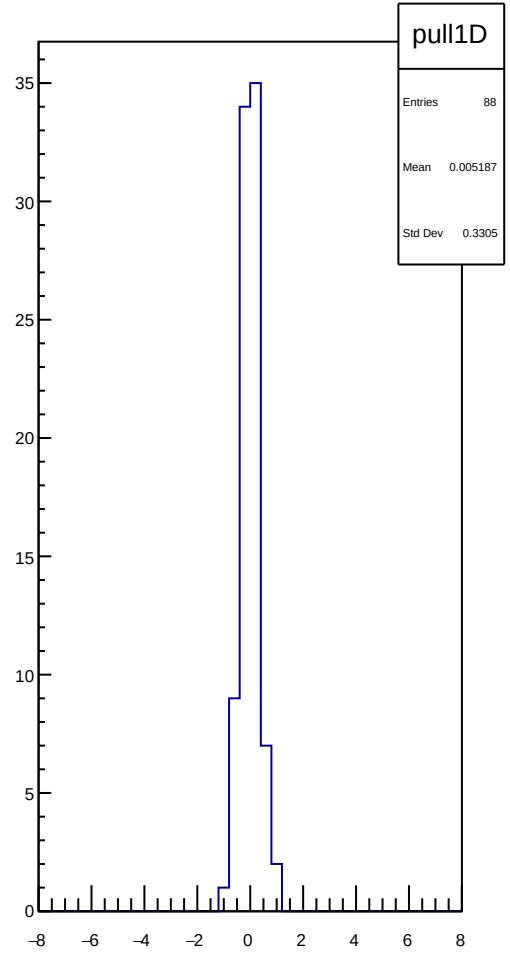

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 9.961 / 87
p0 15.17 ± 5.724
pull
Entries 88
Mean 104.9
Std Dev 0

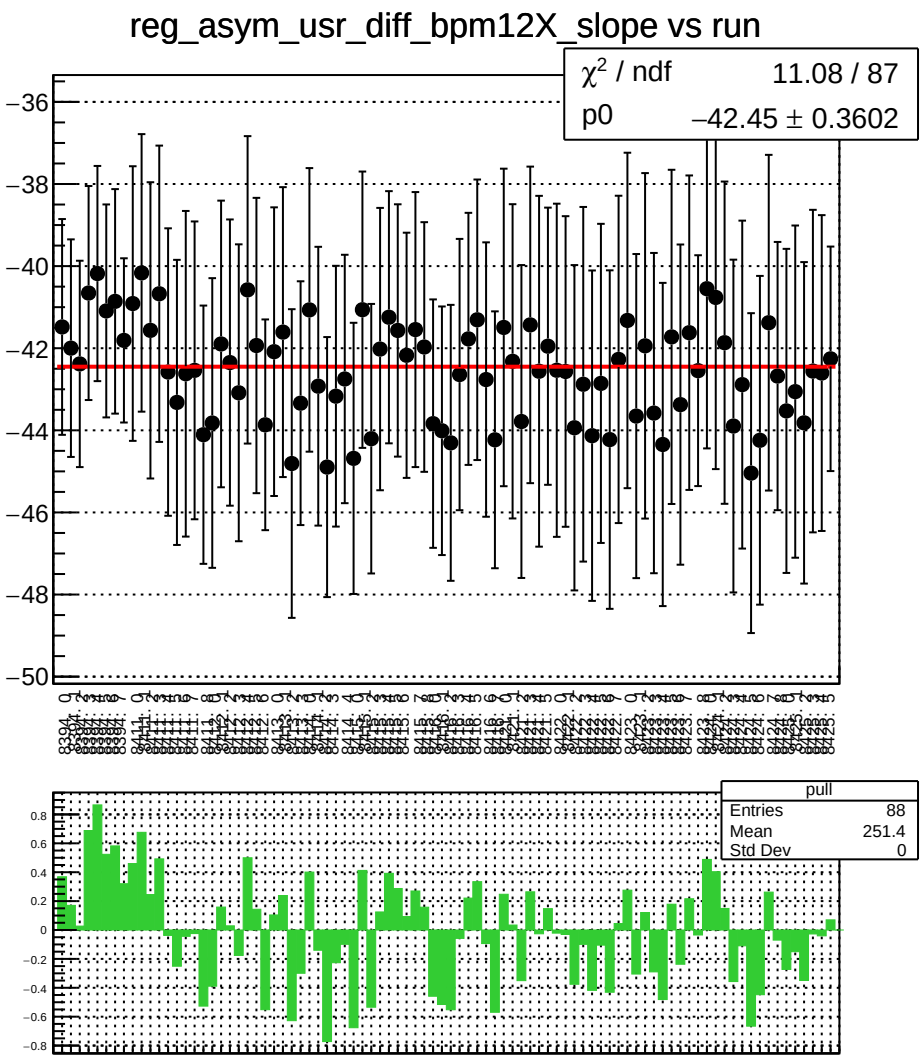

pull1D
Entries 88
Mean −0.004487
Std Dev 0.3364

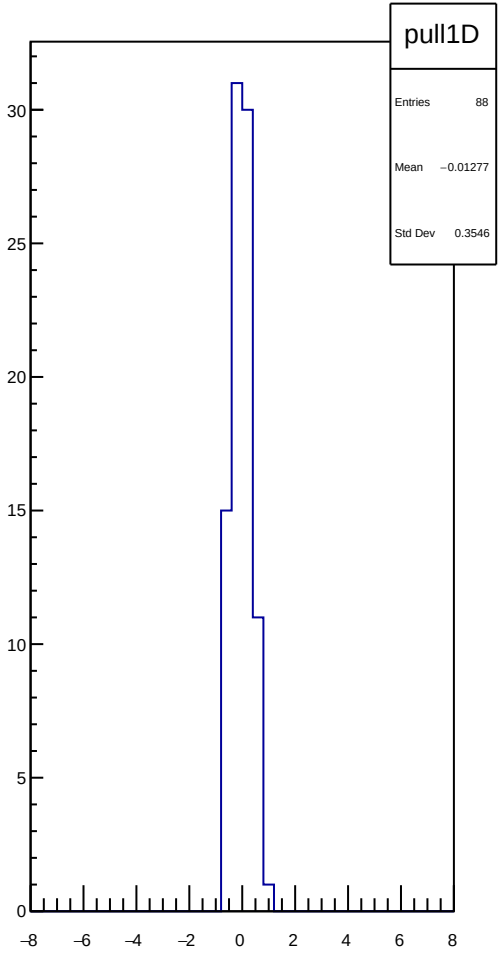

reg_asym_usr_diff_bpm4eX_slope vs run
χ^2 / ndf 12.11 / 87
p0 125.6 ± 3.432
pull
Entries 88
Mean 69.15
Std Dev 50.96

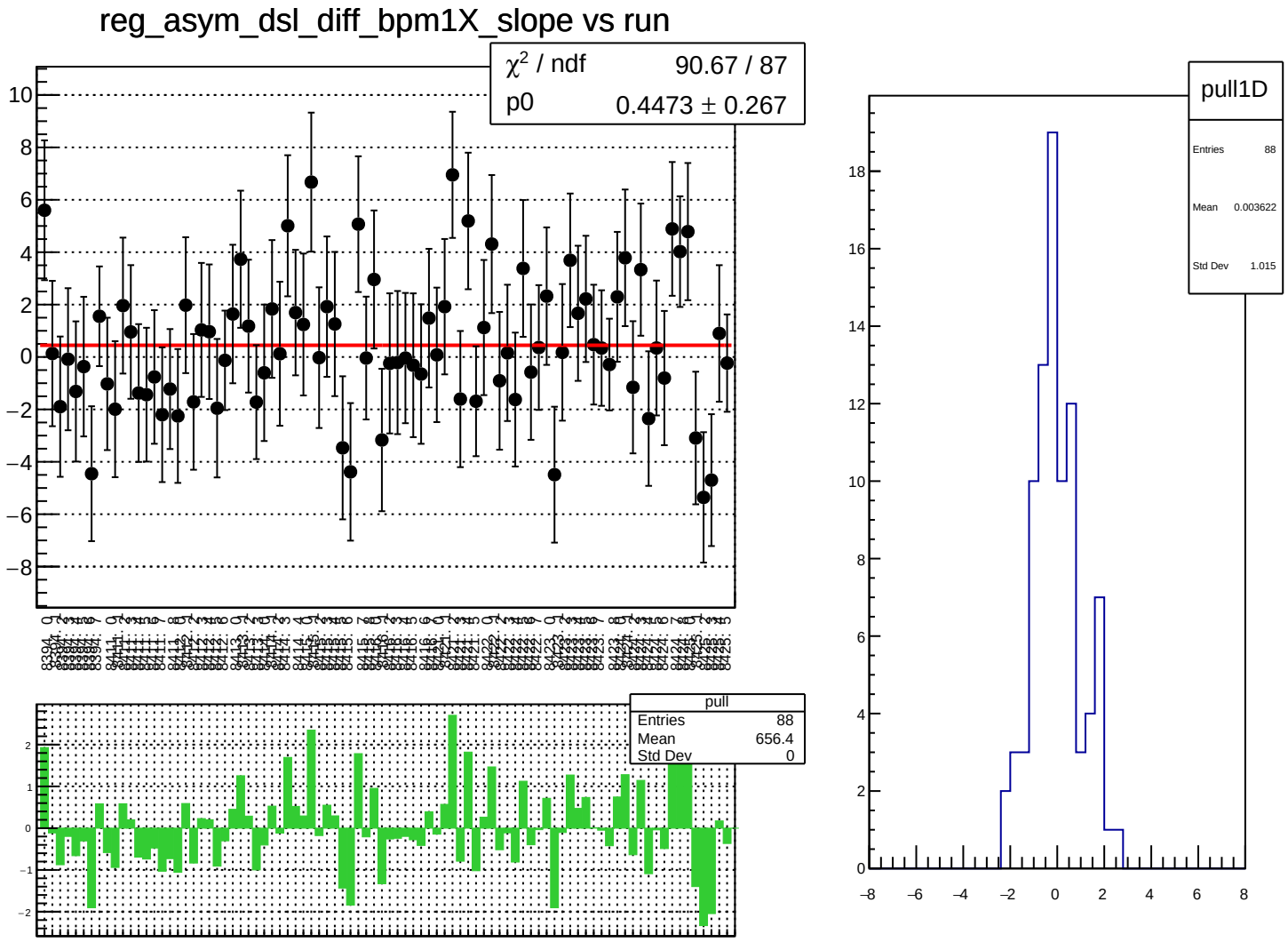

pull1D
Entries 88
Mean 0.005792
Std Dev 0.3709

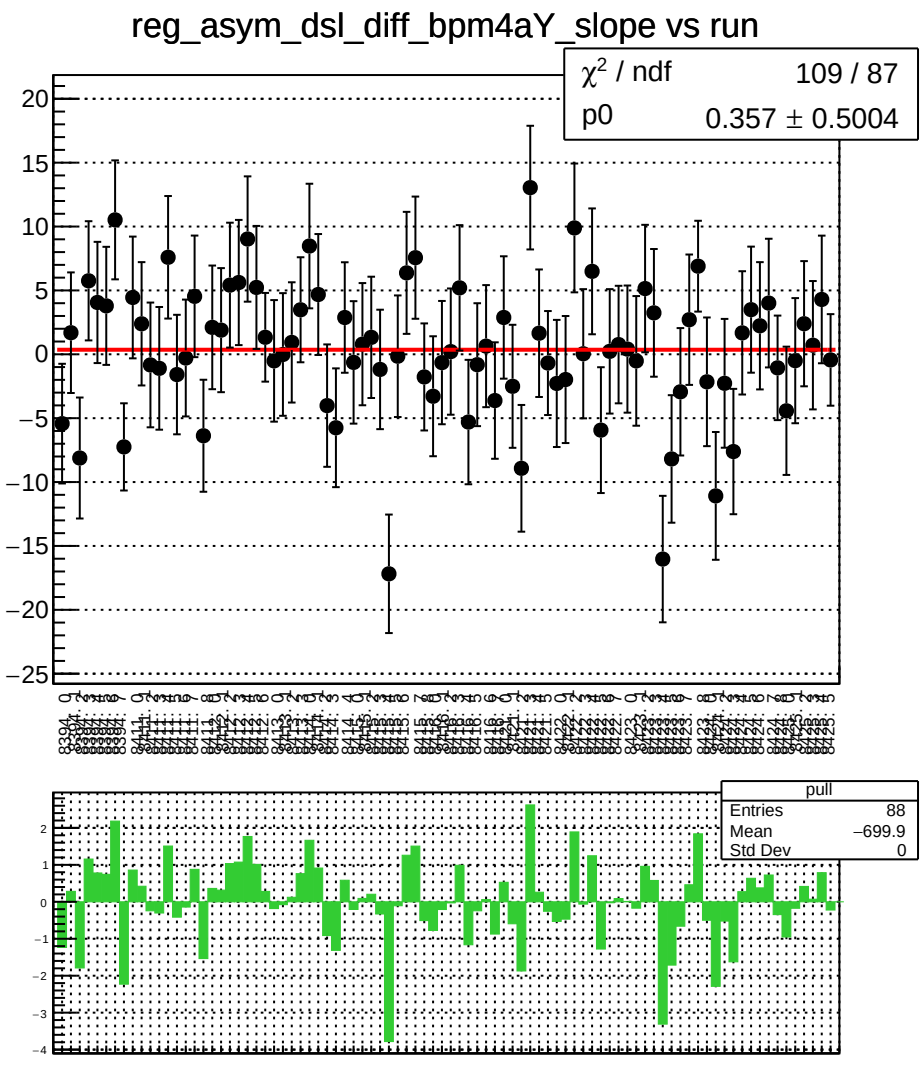

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 9.613 / 87
p0 1.923 ± 6.003
100
50
0
−50
−100
pull
Entries 88
Mean 155
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

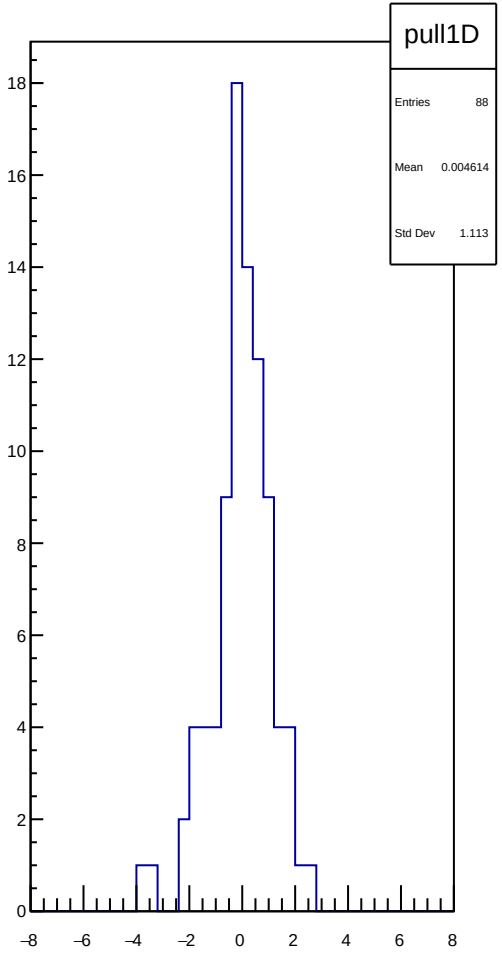

pull1D
Entries 88
Mean 0.005187
Std Dev 0.3305
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

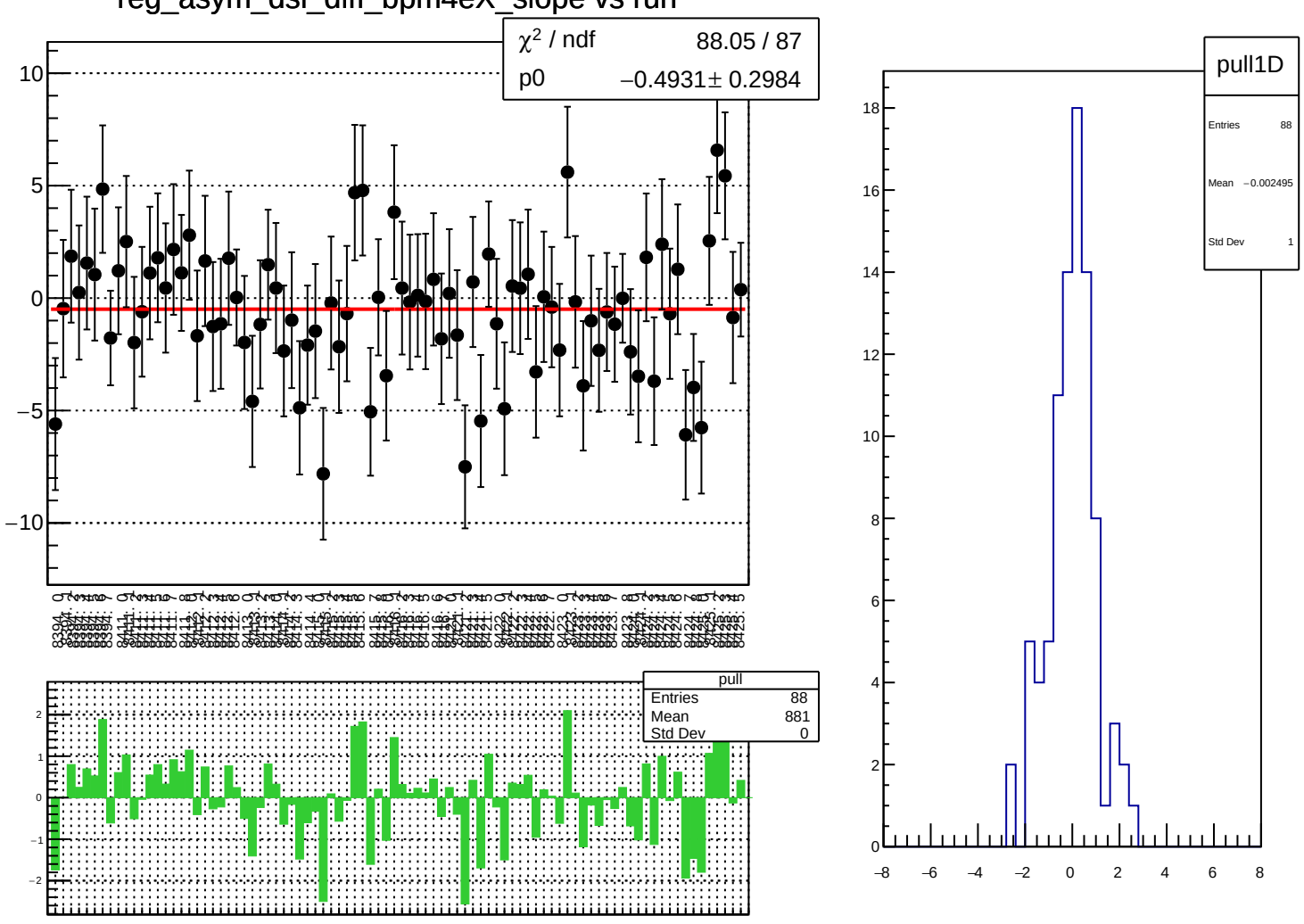

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 11.08 / 87
p0 −42.45 ± 0.3602
pull
Entries 88
Mean 251.4
Std Dev 0

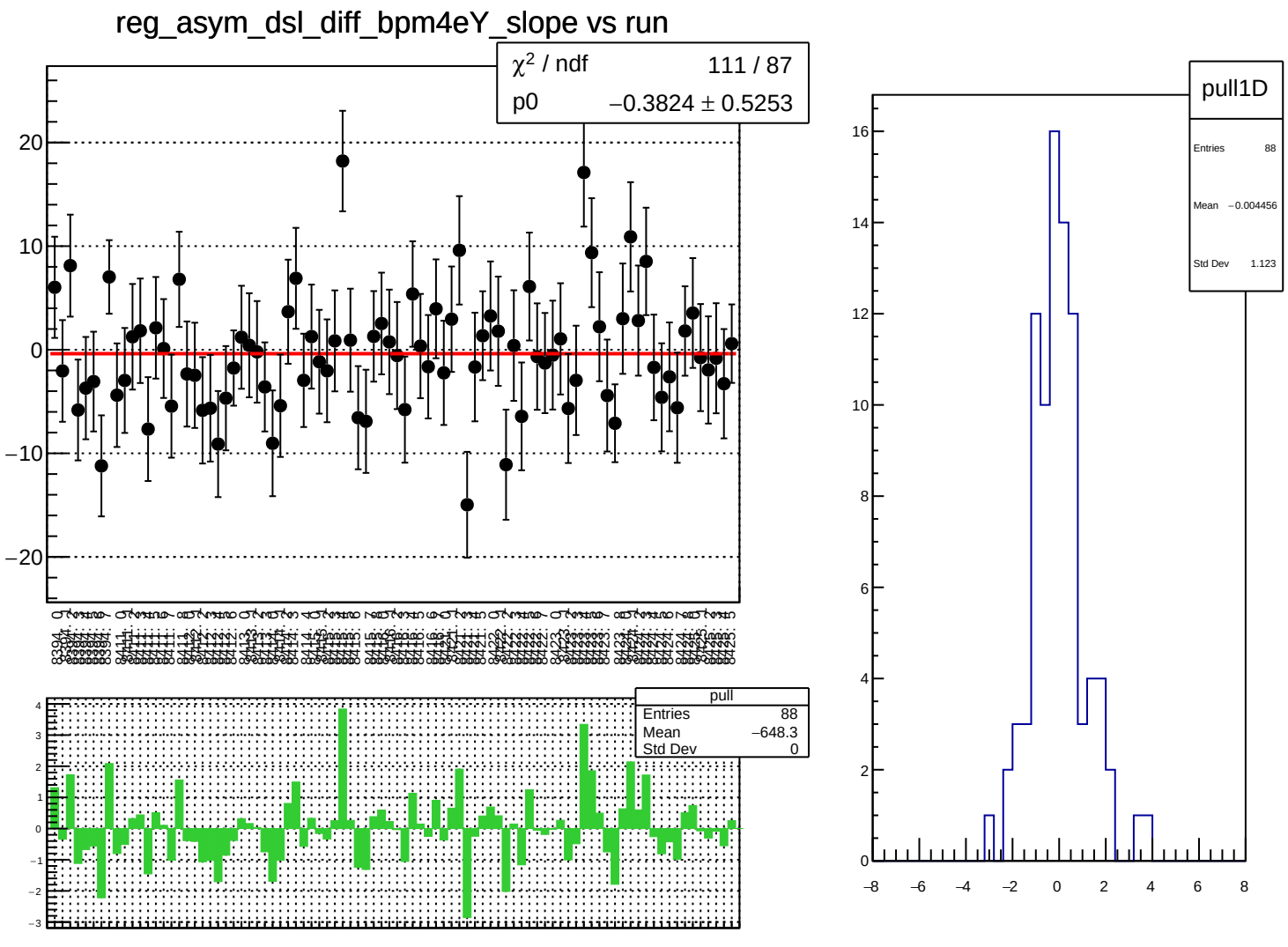

pull1D
Entries 88
Mean −0.01277
Std Dev 0.3546

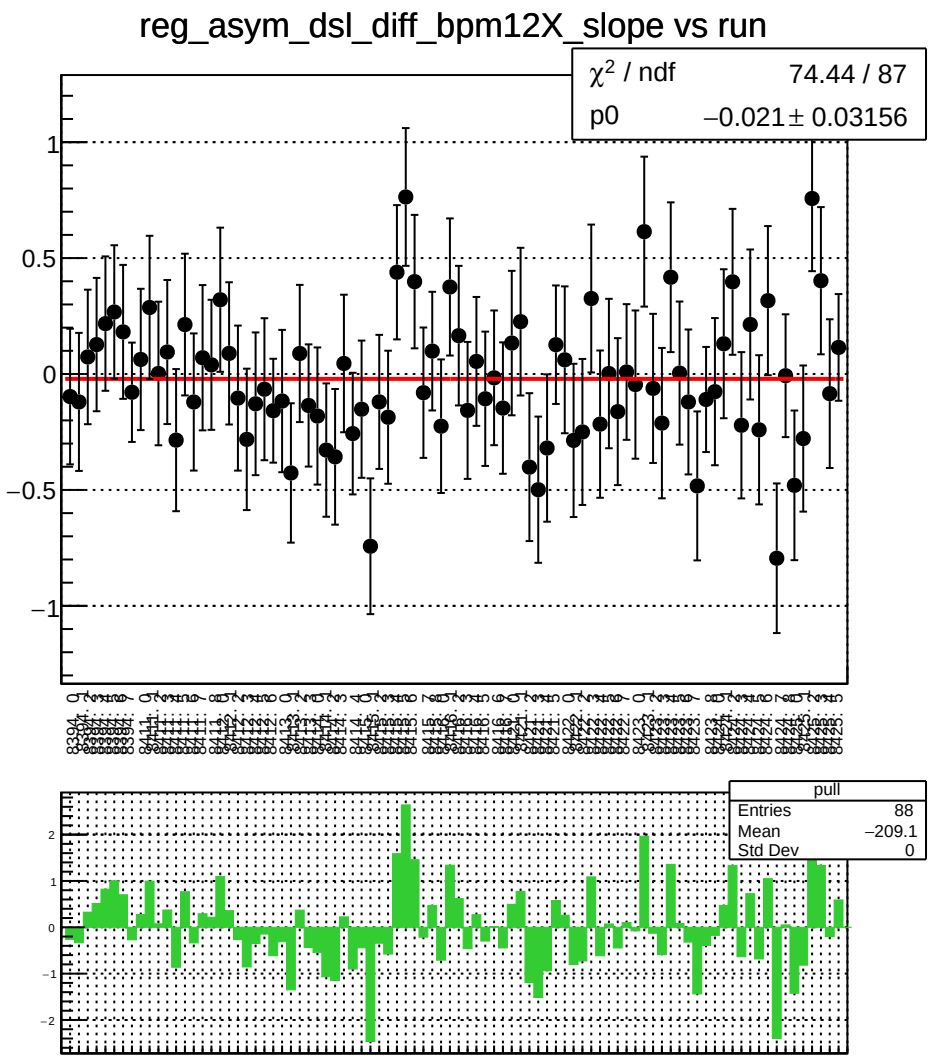

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 90.67 / 87
p0 0.4473 ± 0.267
pull
Entries 88
Mean 656.4
Std Dev 0
pull1D
Entries 88
Mean 0.003622
Std Dev 1.015

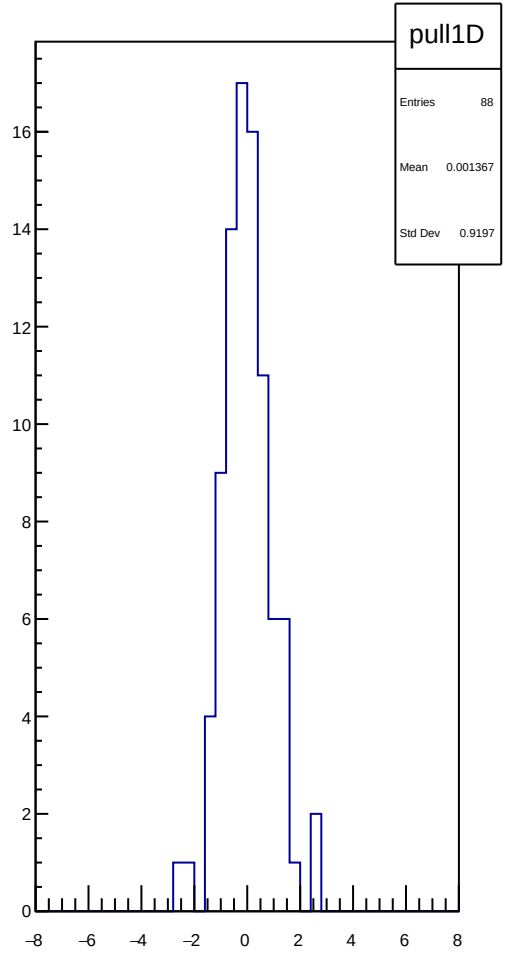

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 109 / 87
p0 0.357 ± 0.5004
pull
Entries 88
Mean −699.9
Std Dev 0

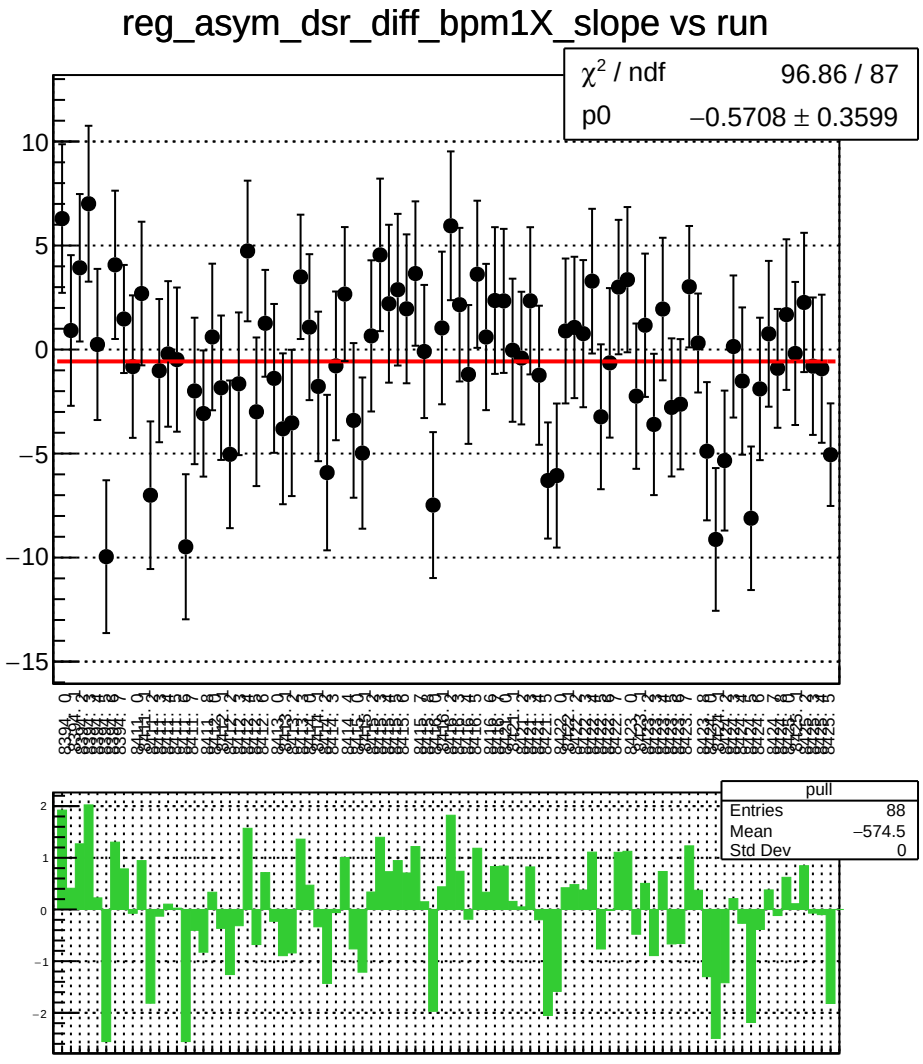

pull1D
Entries 88
Mean 0.004614
Std Dev 1.113

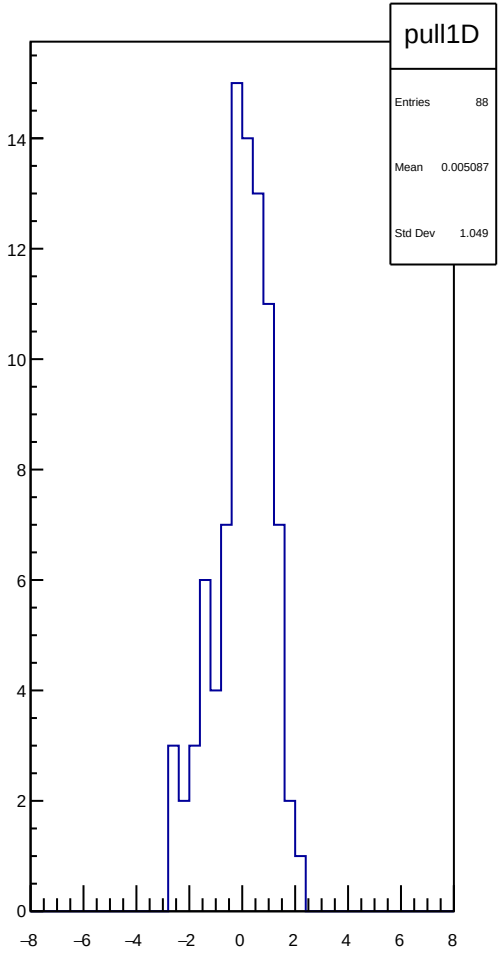

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 88.05 / 87
p0 −0.4931± 0.2984
pull
Entries 88
Mean 881
Std Dev 0
pull1D
Entries 88
Mean −0.002495
Std Dev 1

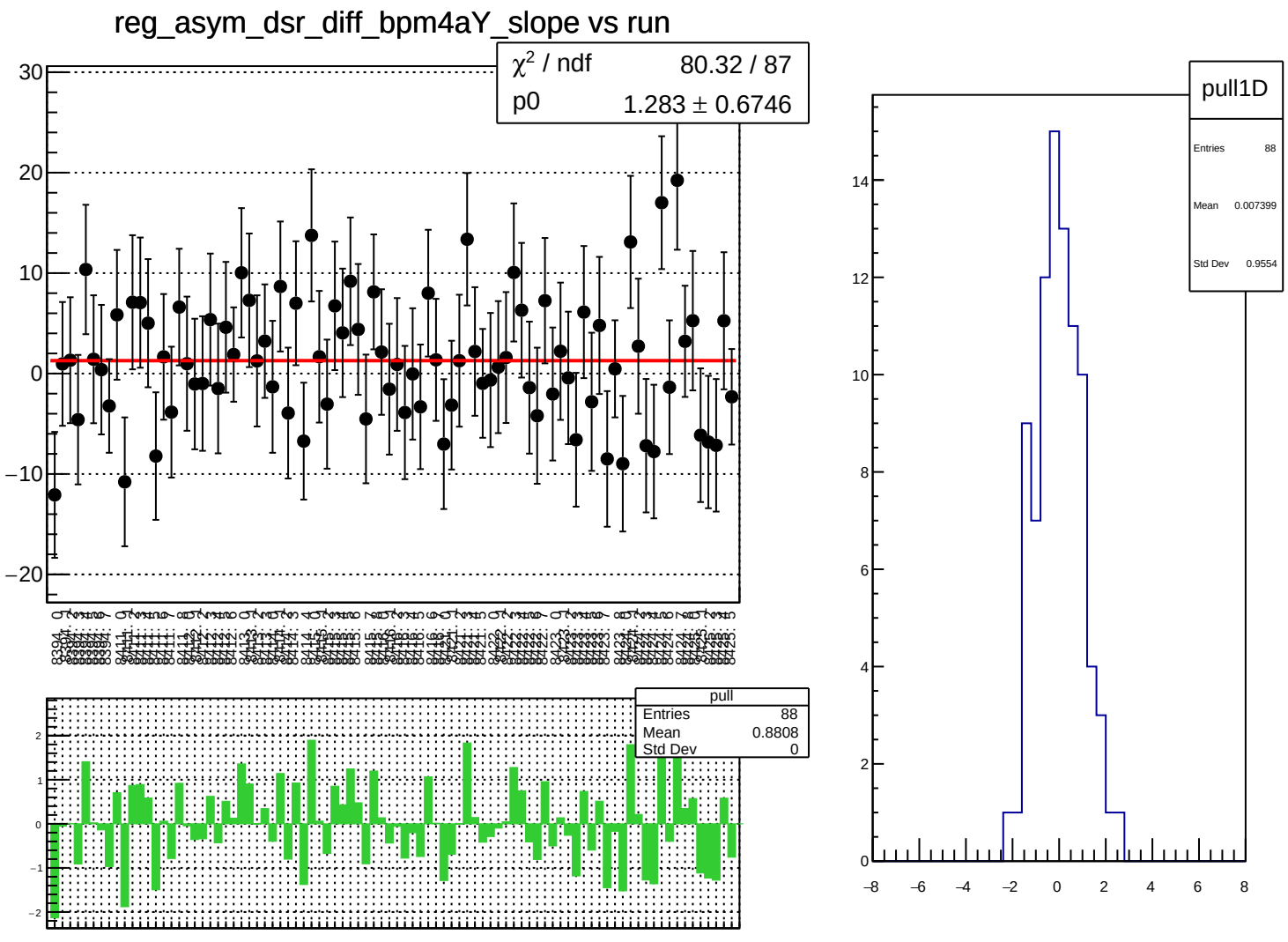

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 111 / 87
p0 −0.3824 ± 0.5253
pull
Entries 88
Mean −648.3
Std Dev 0
pull1D
Entries 88
Mean −0.004456
Std Dev 1.123

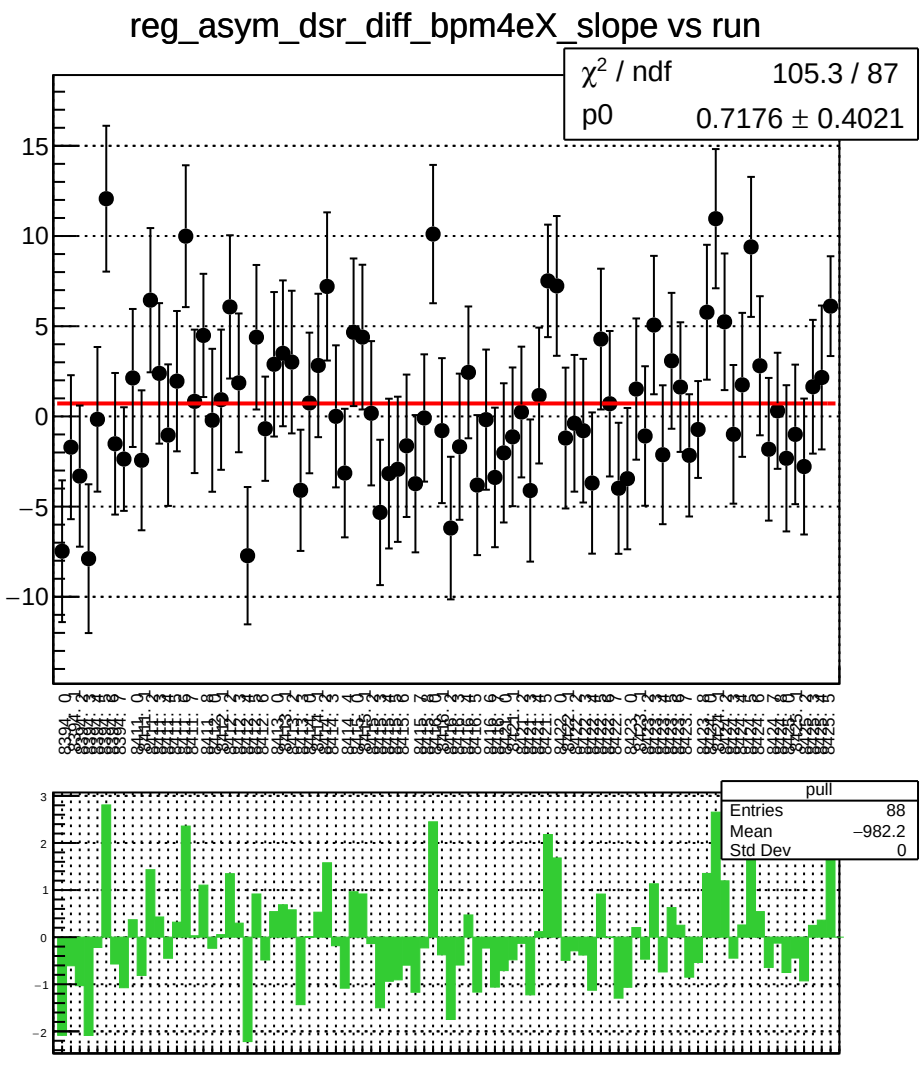

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 74.44 / 87
p0 −0.021 ± 0.03156
pull
Entries 88
Mean −209.1
Std Dev 0

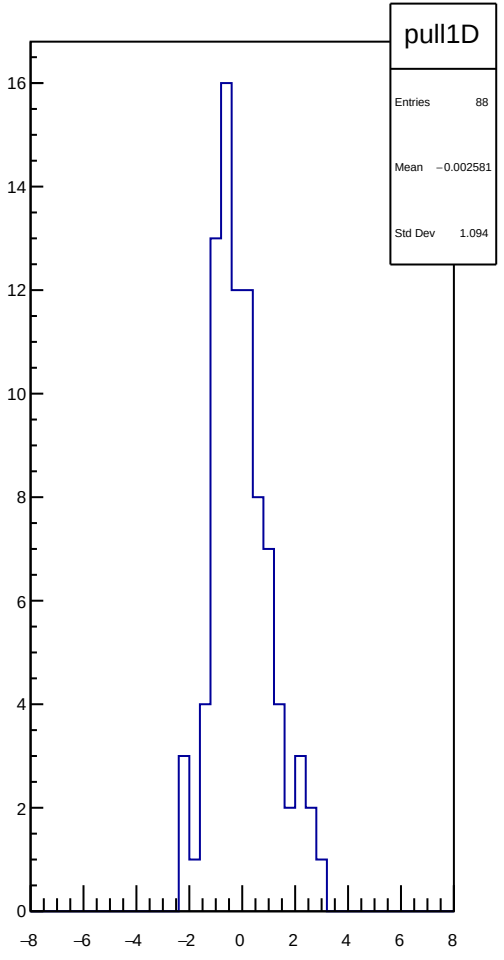

pull1D
Entries 88
Mean 0.001367
Std Dev 0.9197

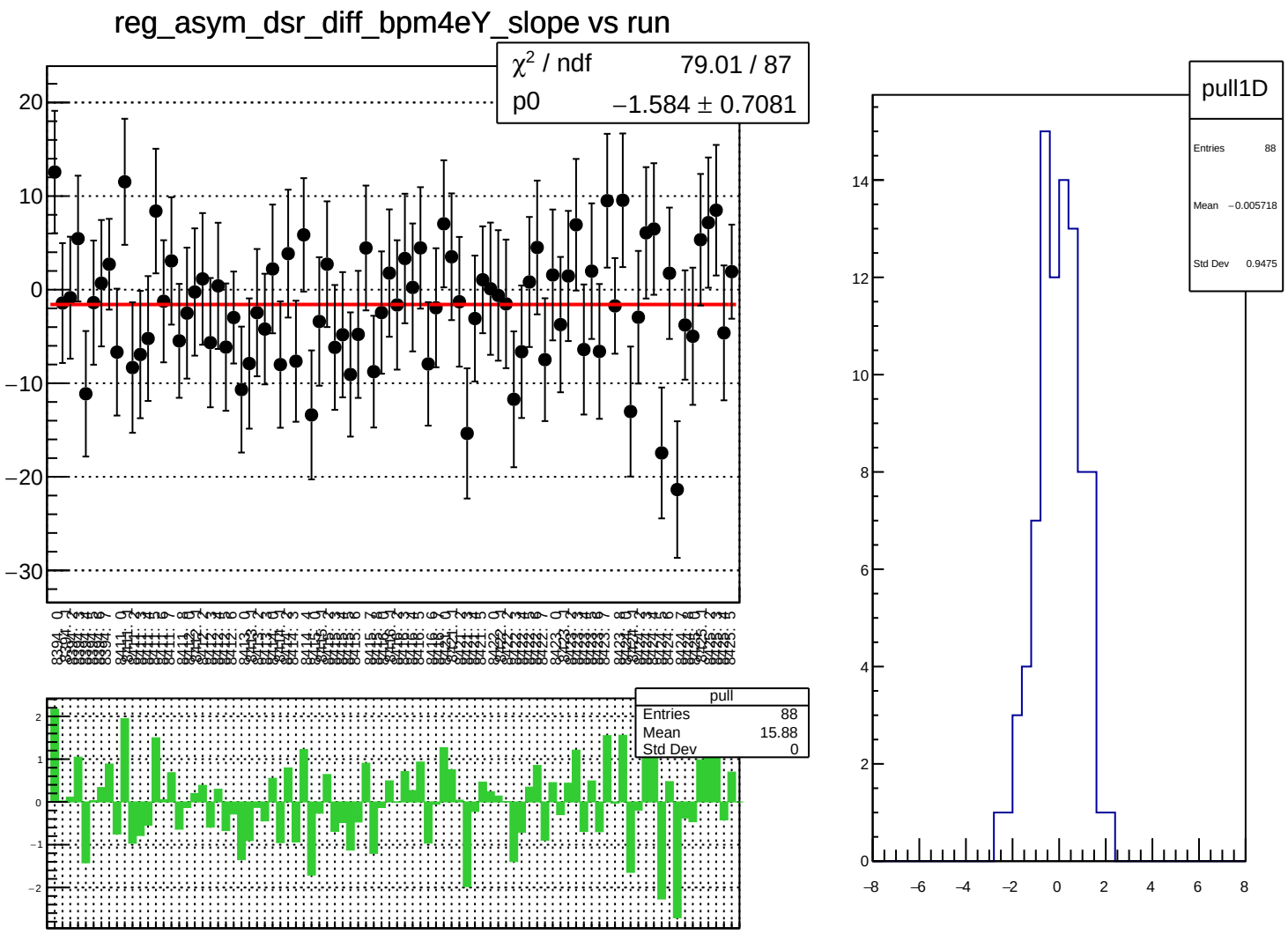

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 96.86 / 87
p0 −0.5708 ± 0.3599
pull
Entries 88
Mean −574.5
Std Dev 0

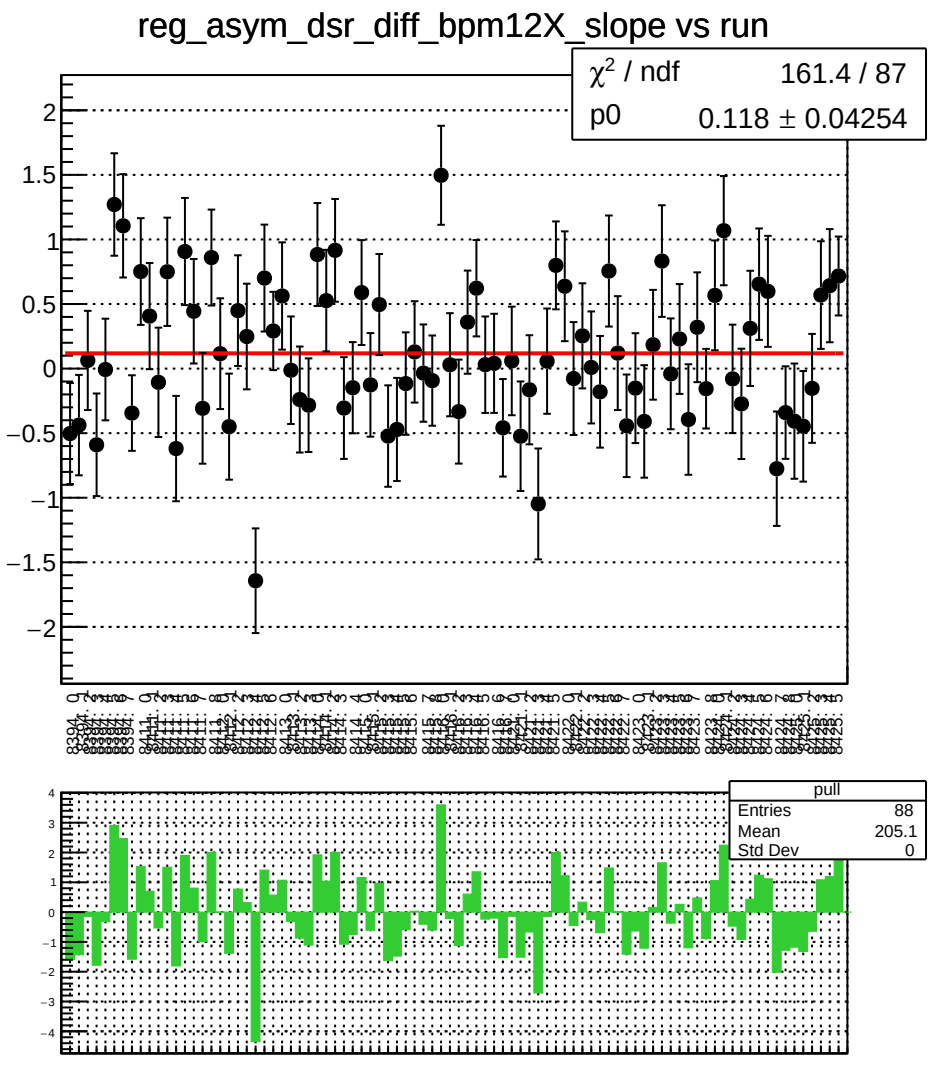

pull1D
Entries 88
Mean 0.005087
Std Dev 1.049

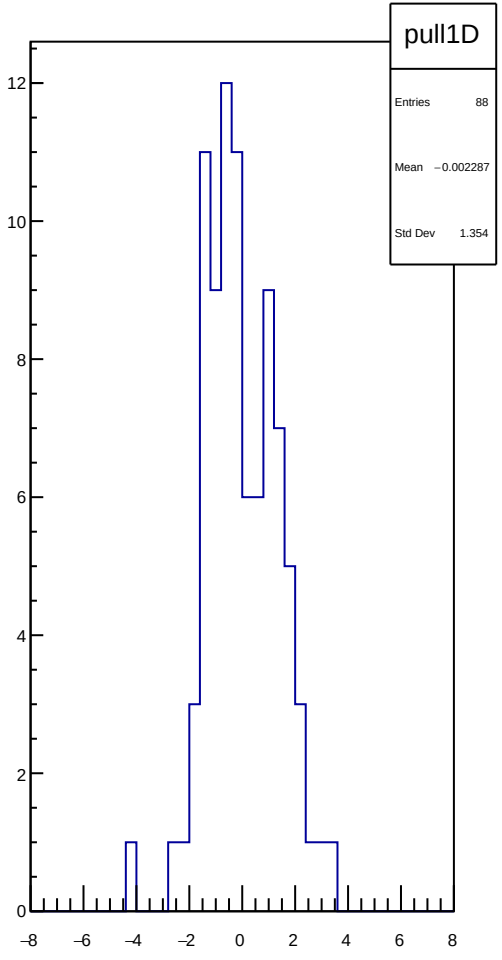

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 80.32 / 87
p0 1.283 ± 0.6746
pull
Entries 88
Mean 0.8808
Std Dev 0
pull1D
Entries 88
Mean 0.007399
Std Dev 0.9554

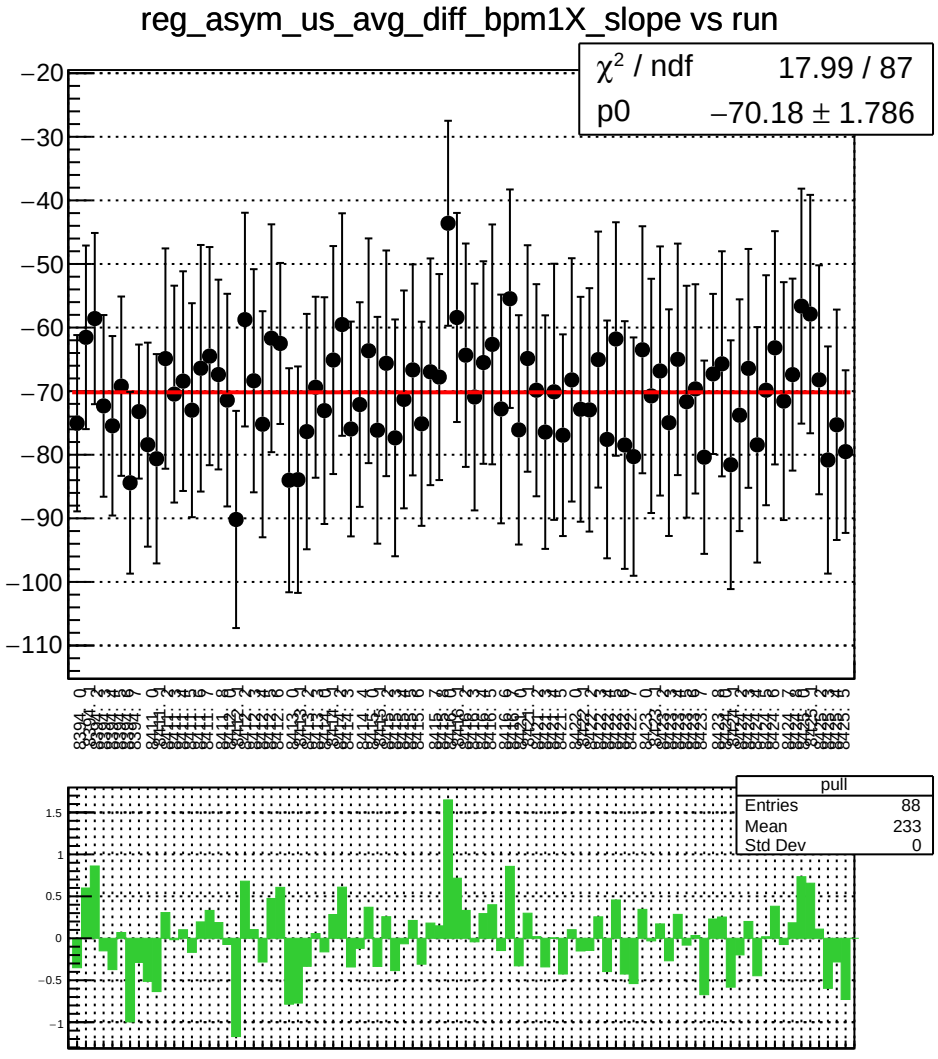

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 105.3 / 87
p0 0.7176 ± 0.4021
pull
Entries 88
Mean −982.2
Std Dev 0

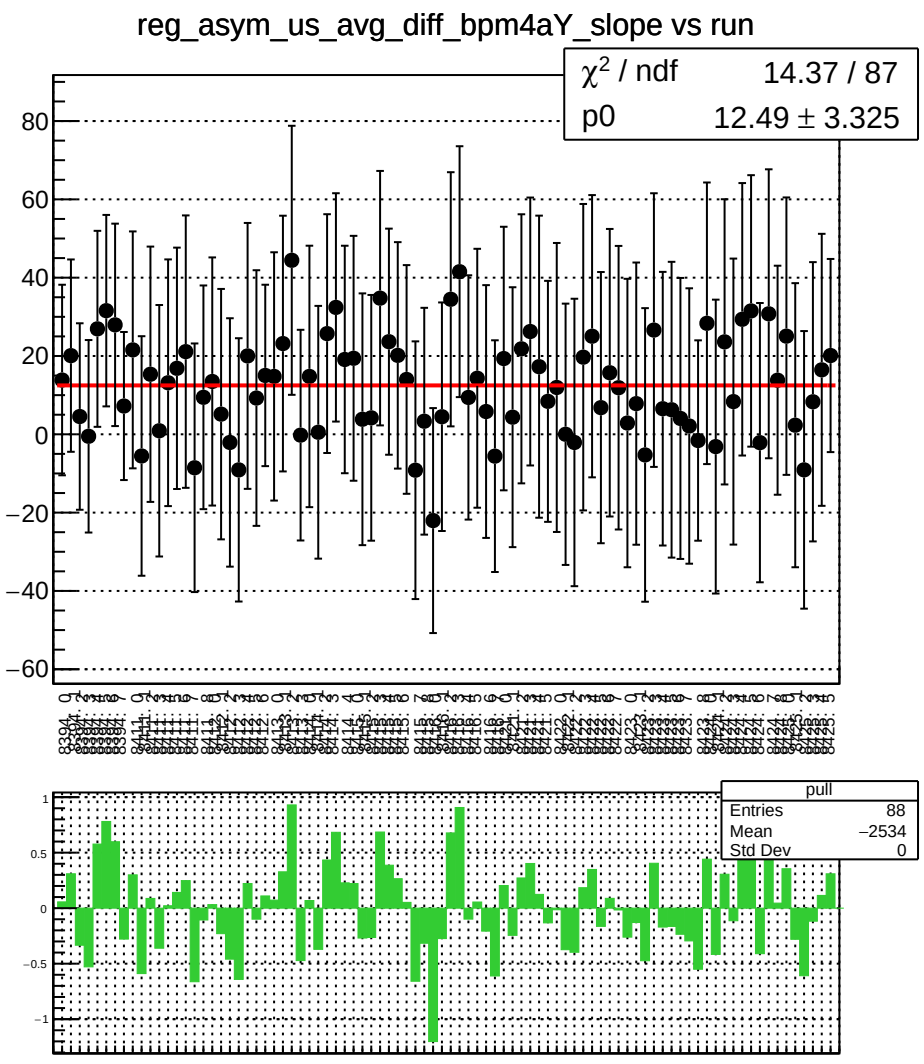

pull1D
Entries 88
Mean −0.002581
Std Dev 1.094

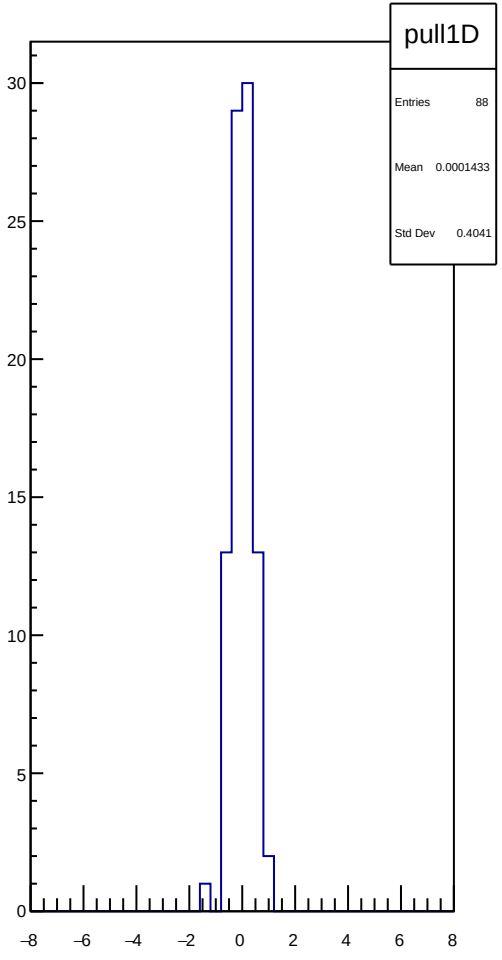

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 79.01 / 87
p0 −1.584 ± 0.7081
pull
Entries 88
Mean 15.88
Std Dev 0
pull1D
Entries 88
Mean −0.005718
Std Dev 0.9475

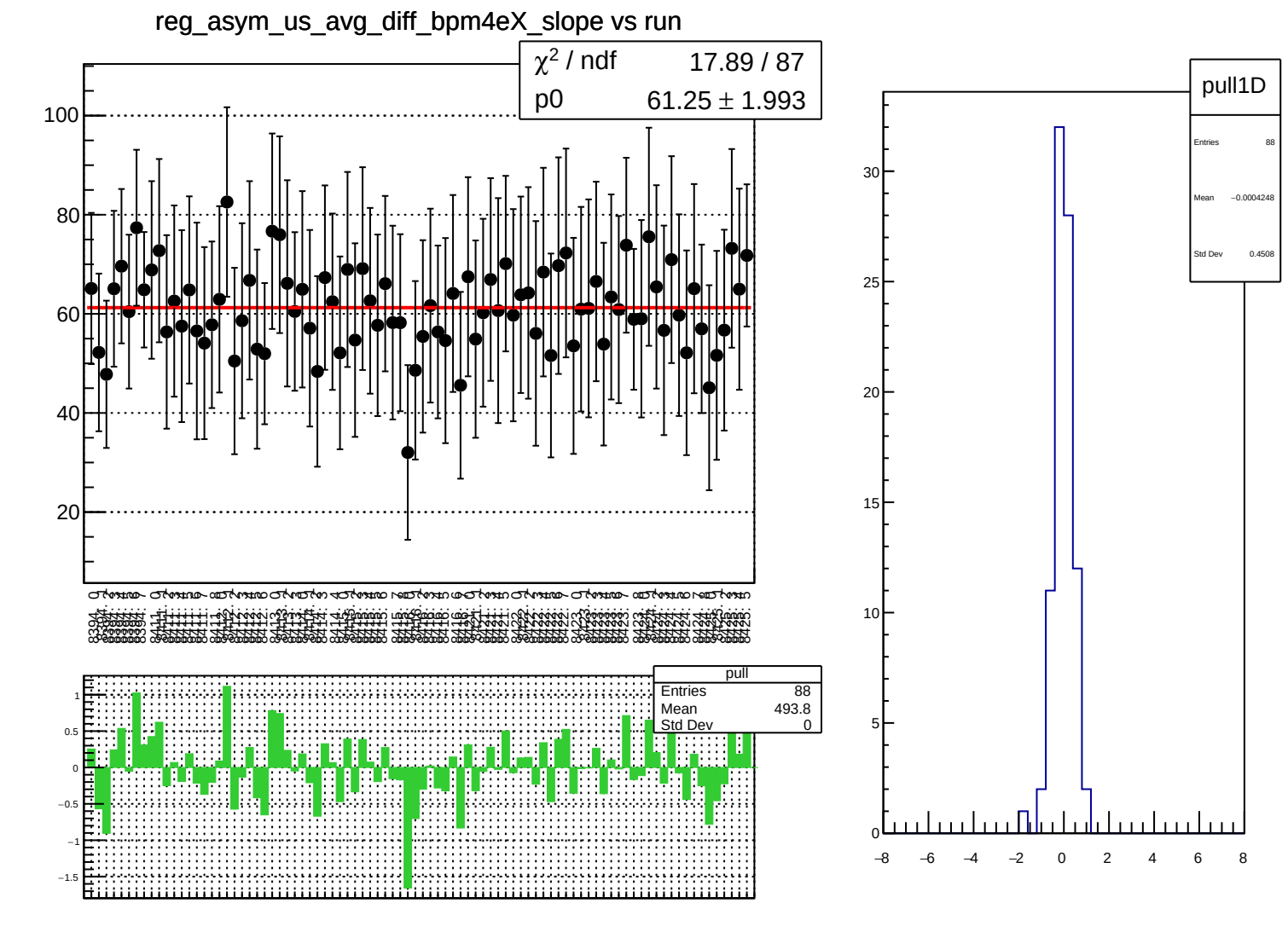

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 161.4 / 87
p0 0.118 ± 0.04254
pull
Entries 88
Mean 205.1
Std Dev 0

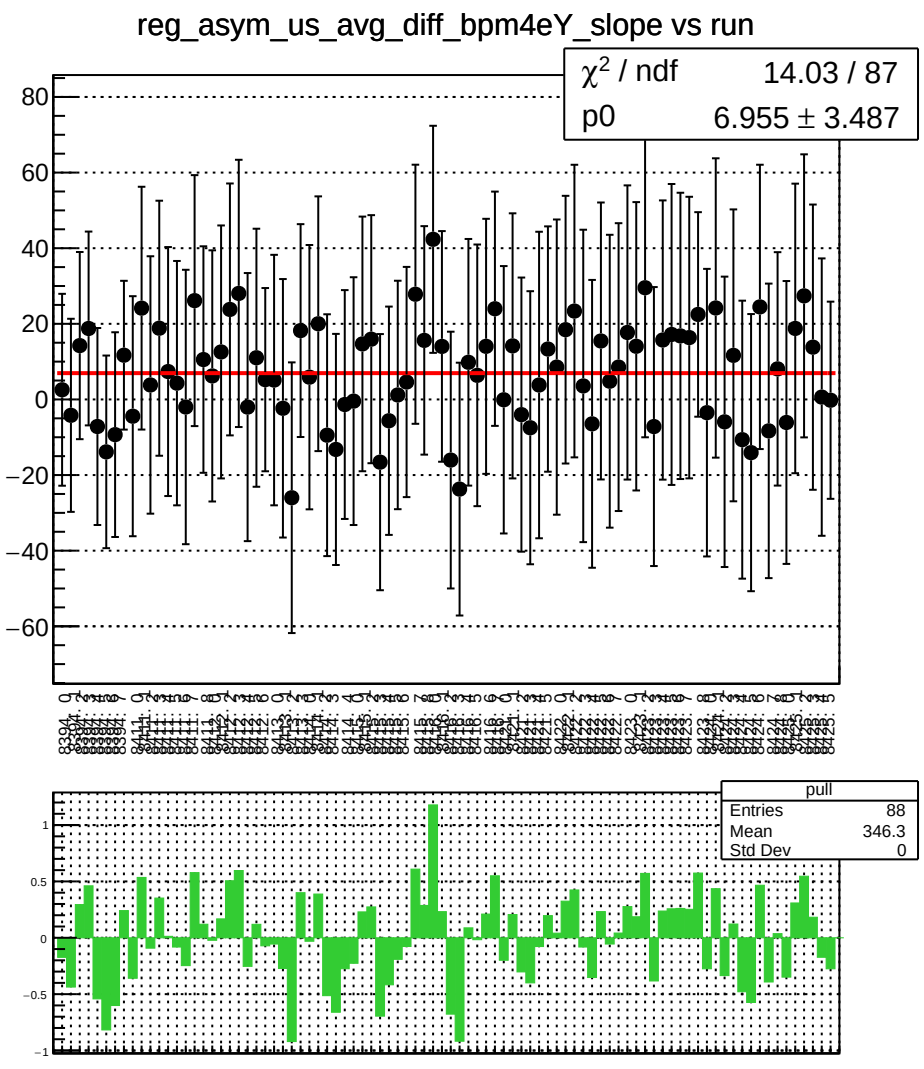

pull1D
Entries 88
Mean −0.002287
Std Dev 1.354

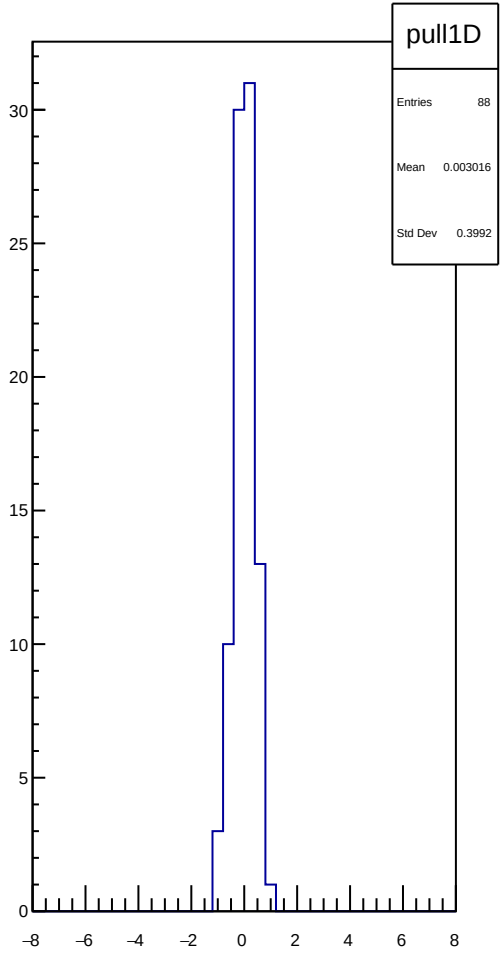

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 17.99 / 87
p0 −70.18 ± 1.786
pull
Entries 88
Mean 233
Std Dev 0
pull1D
Entries 88
Mean 0.001176
Std Dev 0.4521

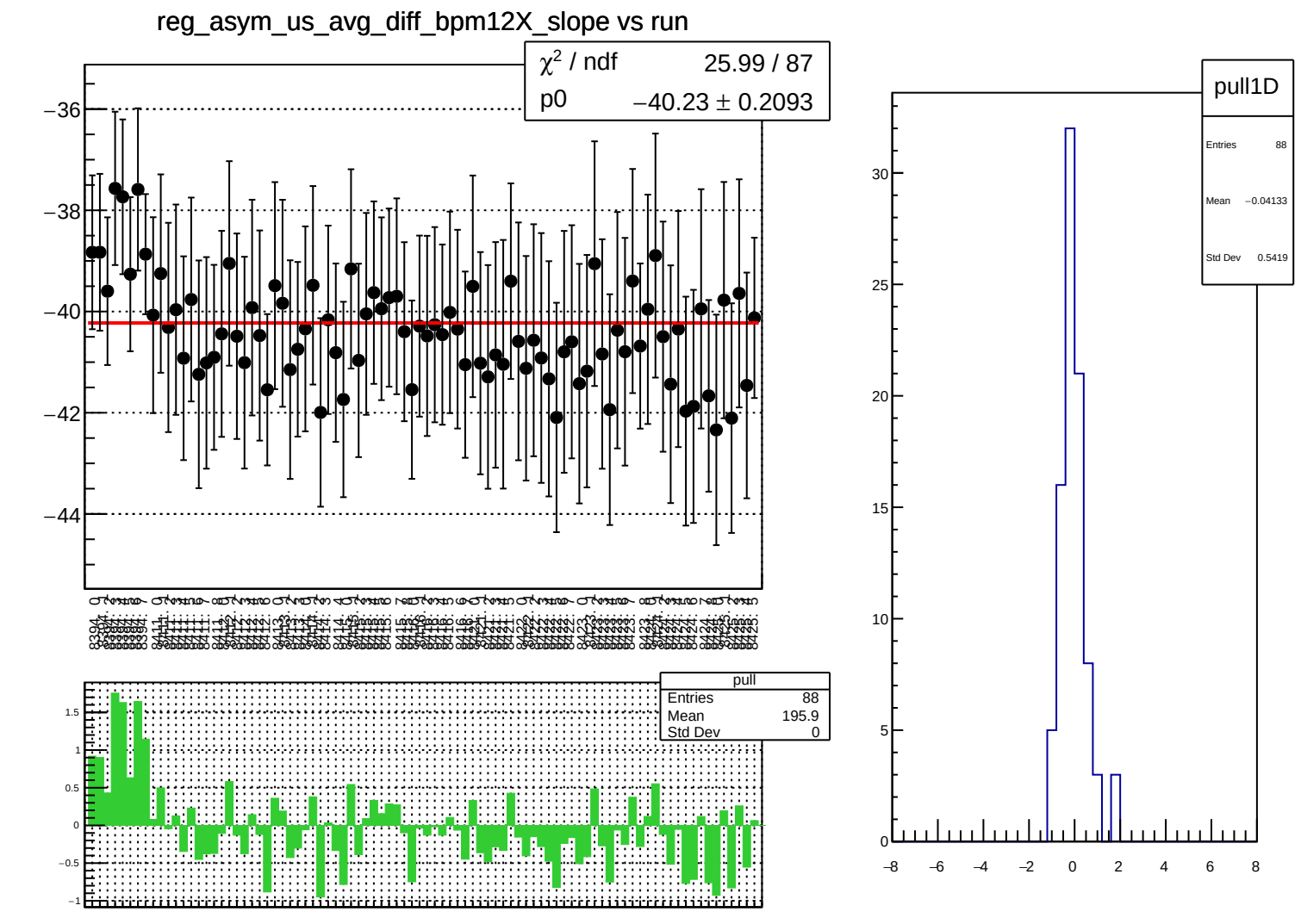

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.37 / 87
p0 12.49 ± 3.325
pull
Entries 88
Mean −2534
Std Dev 0

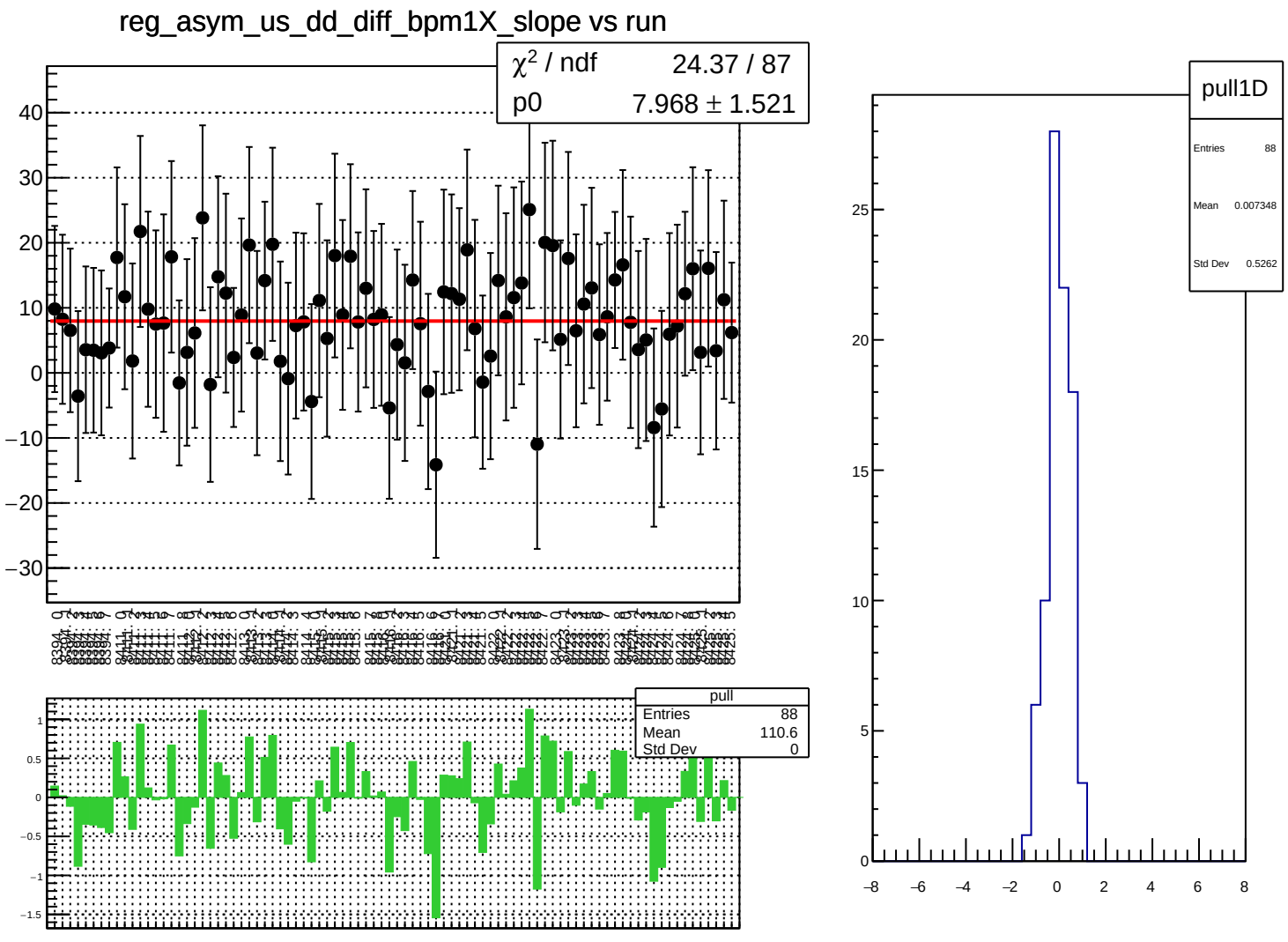

pull1D
Entries 88
Mean 0.0001433
Std Dev 0.4041

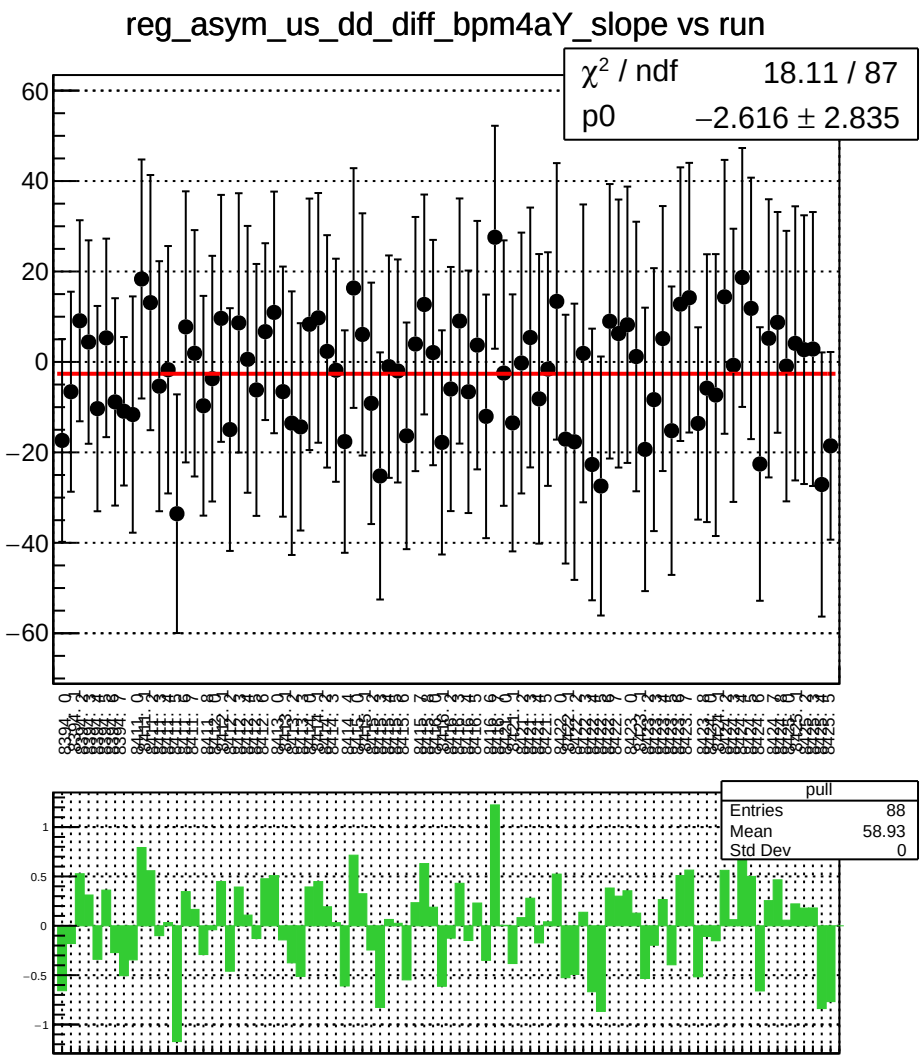

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.89 / 87
p0 61.25 ± 1.993
pull
Entries 88
Mean 493.8
Std Dev 0
pull1D
Entries 88
Mean −0.0004248
Std Dev 0.4508

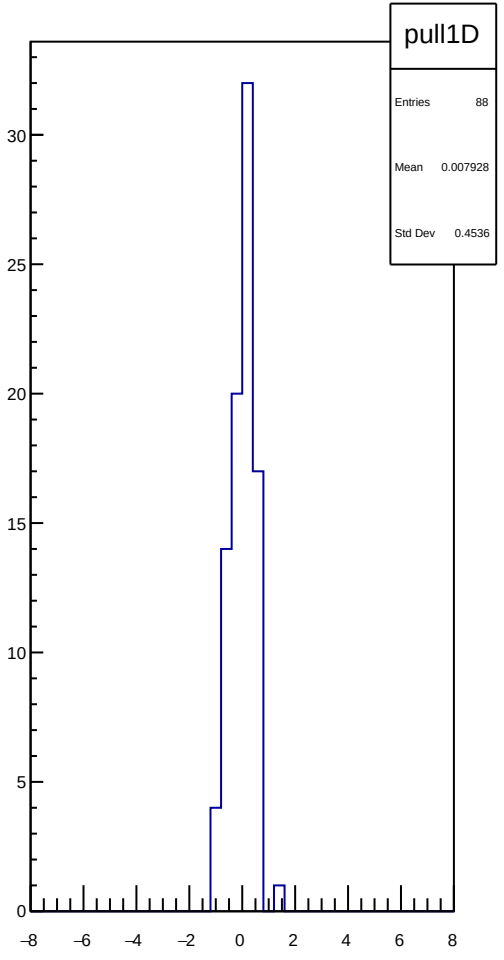

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.03 / 87
p0 6.955 ± 3.487
pull
Entries 88
Mean 346.3
Std Dev 0

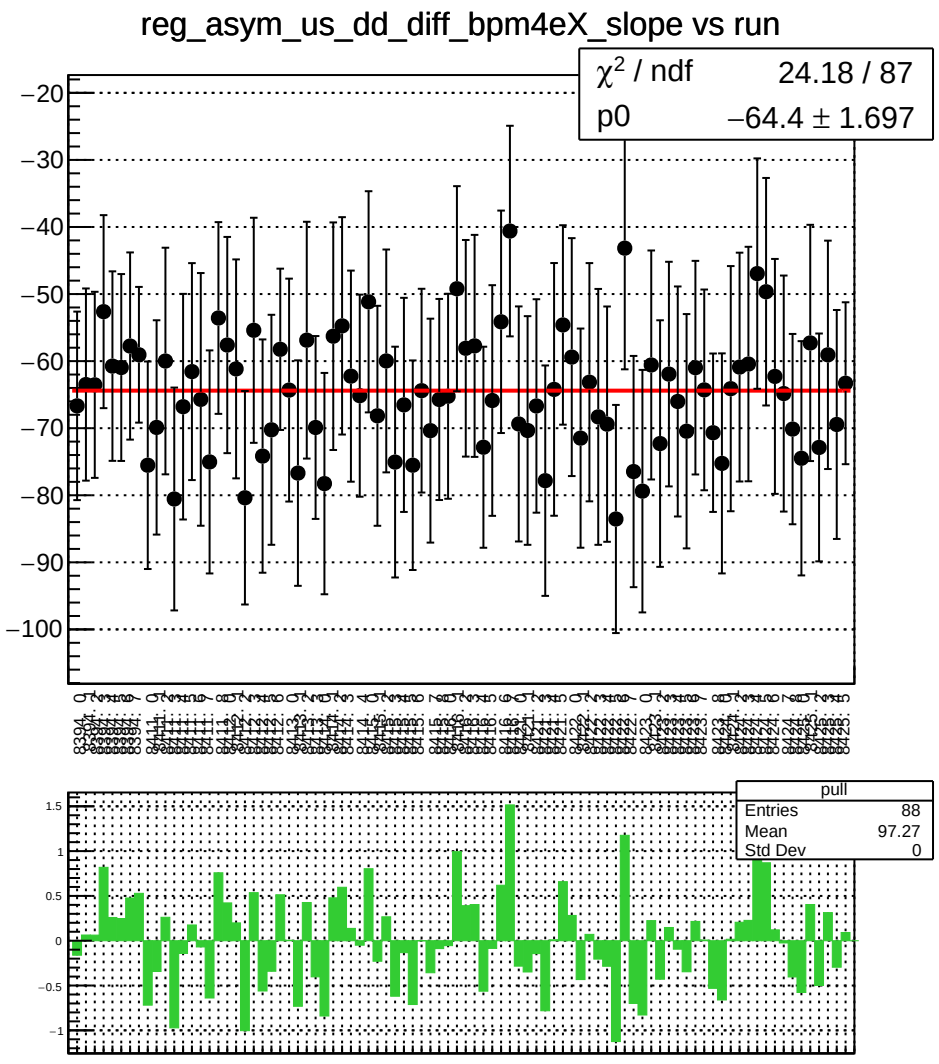

pull1D
Entries 88
Mean 0.003016
Std Dev 0.3992

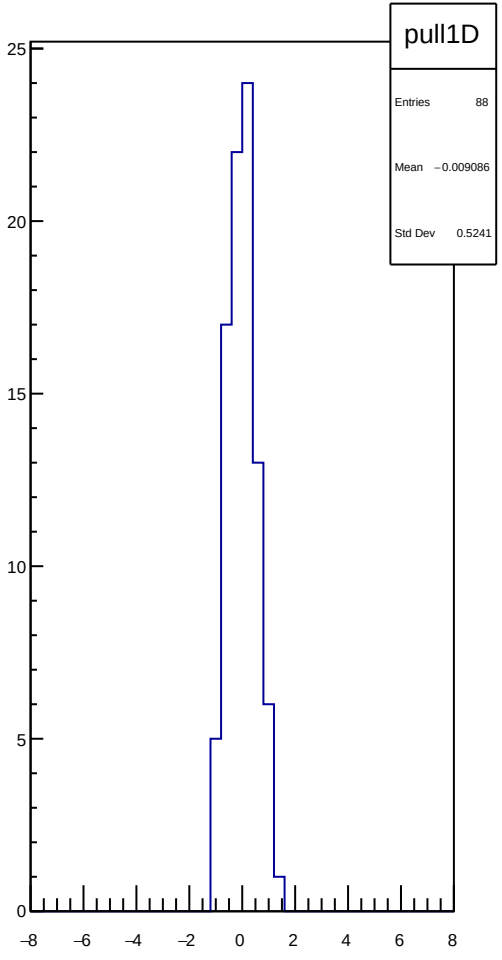

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 25.99 / 87
p0 −40.23 ± 0.2093
−36
−38
−40
−42
−44
pull
Entries 88
Mean 195.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean −0.04133
Std Dev 0.5419
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

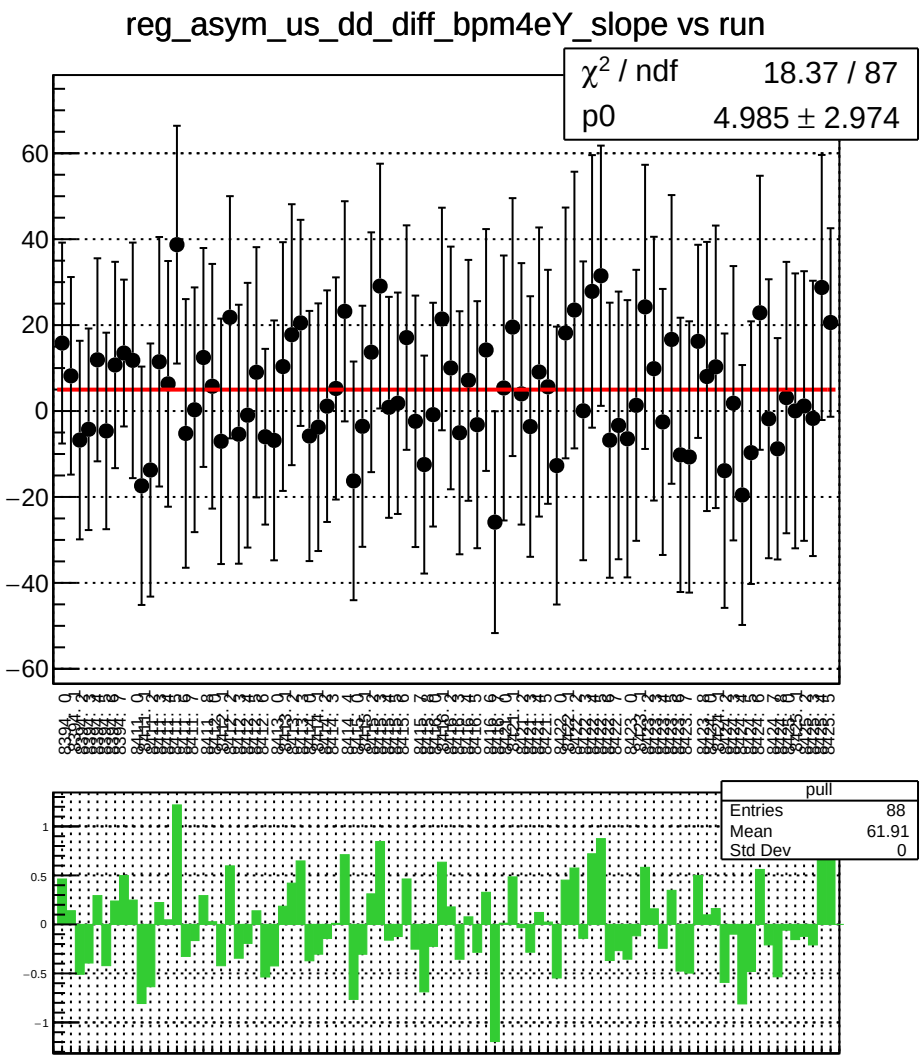

reg_asym_us_dd_diff_bpm1X_slope vs run
χ^2 / ndf 24.37 / 87
p0 7.968 ± 1.521
pull
Entries 88
Mean 110.6
Std Dev 0
pull1D
Entries 88
Mean 0.007348
Std Dev 0.5262

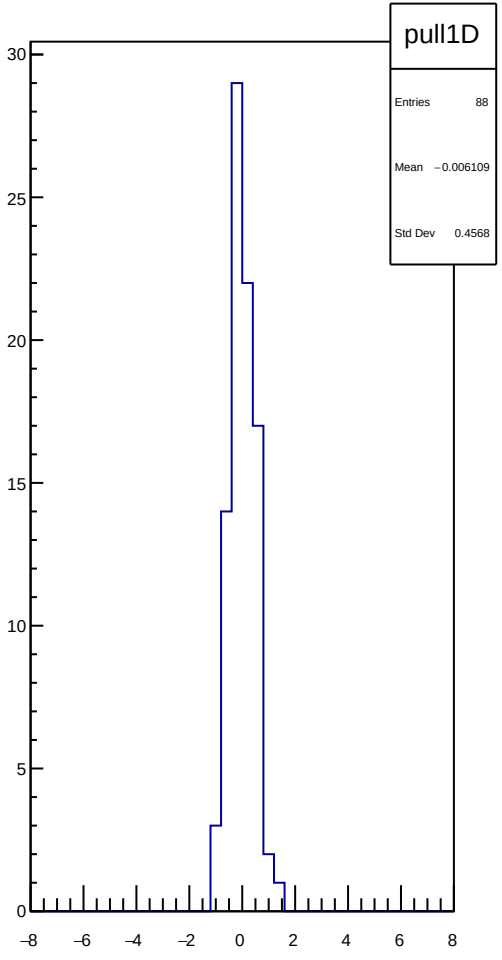

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.11 / 87
p0 −2.616 ± 2.835
pull
Entries 88
Mean 58.93
Std Dev 0

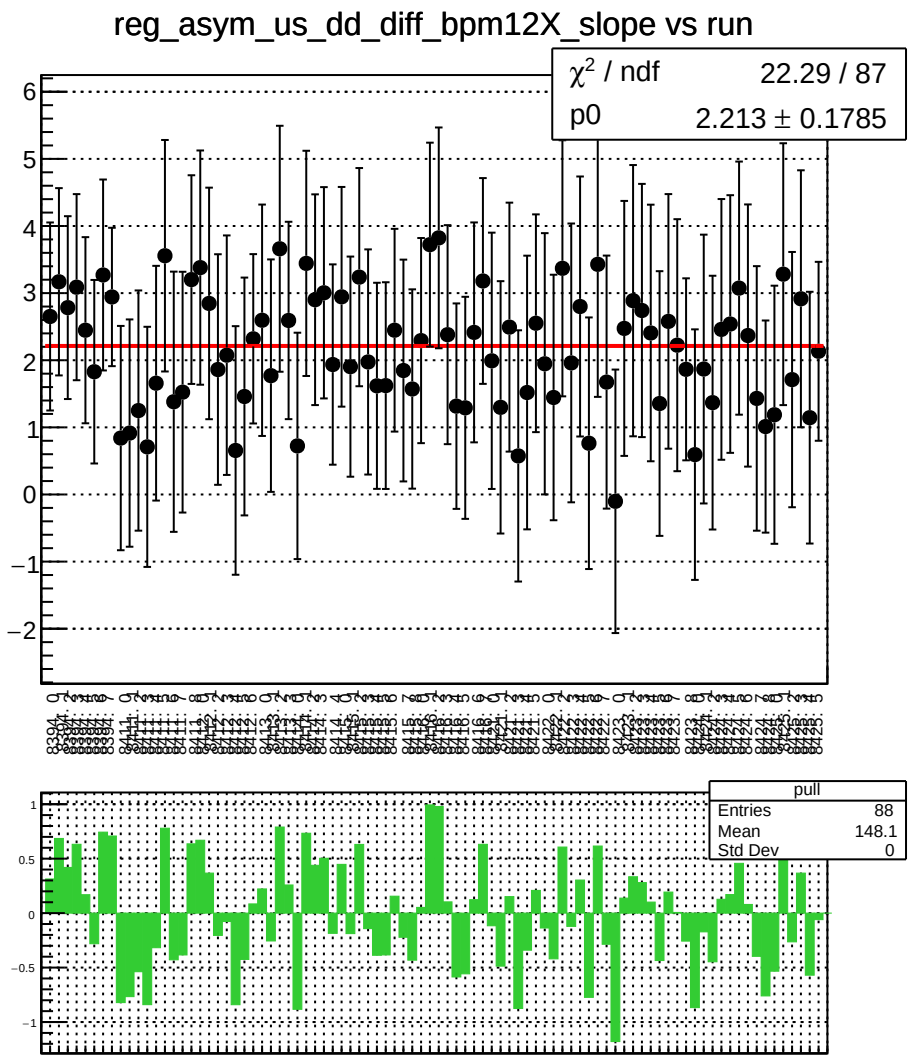

pull1D
Entries 88
Mean 0.007928
Std Dev 0.4536

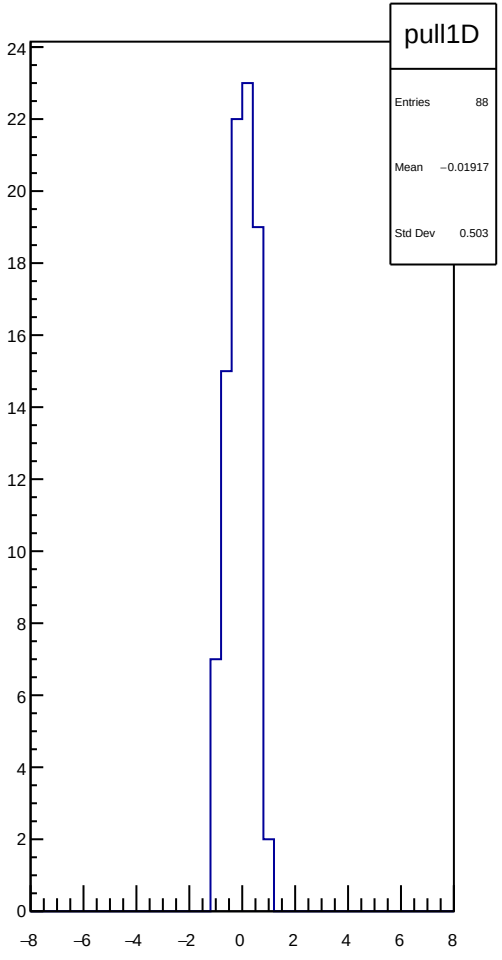

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 24.18 / 87
p0 −64.4 ± 1.697
pull
Entries 88
Mean 97.27
Std Dev 0

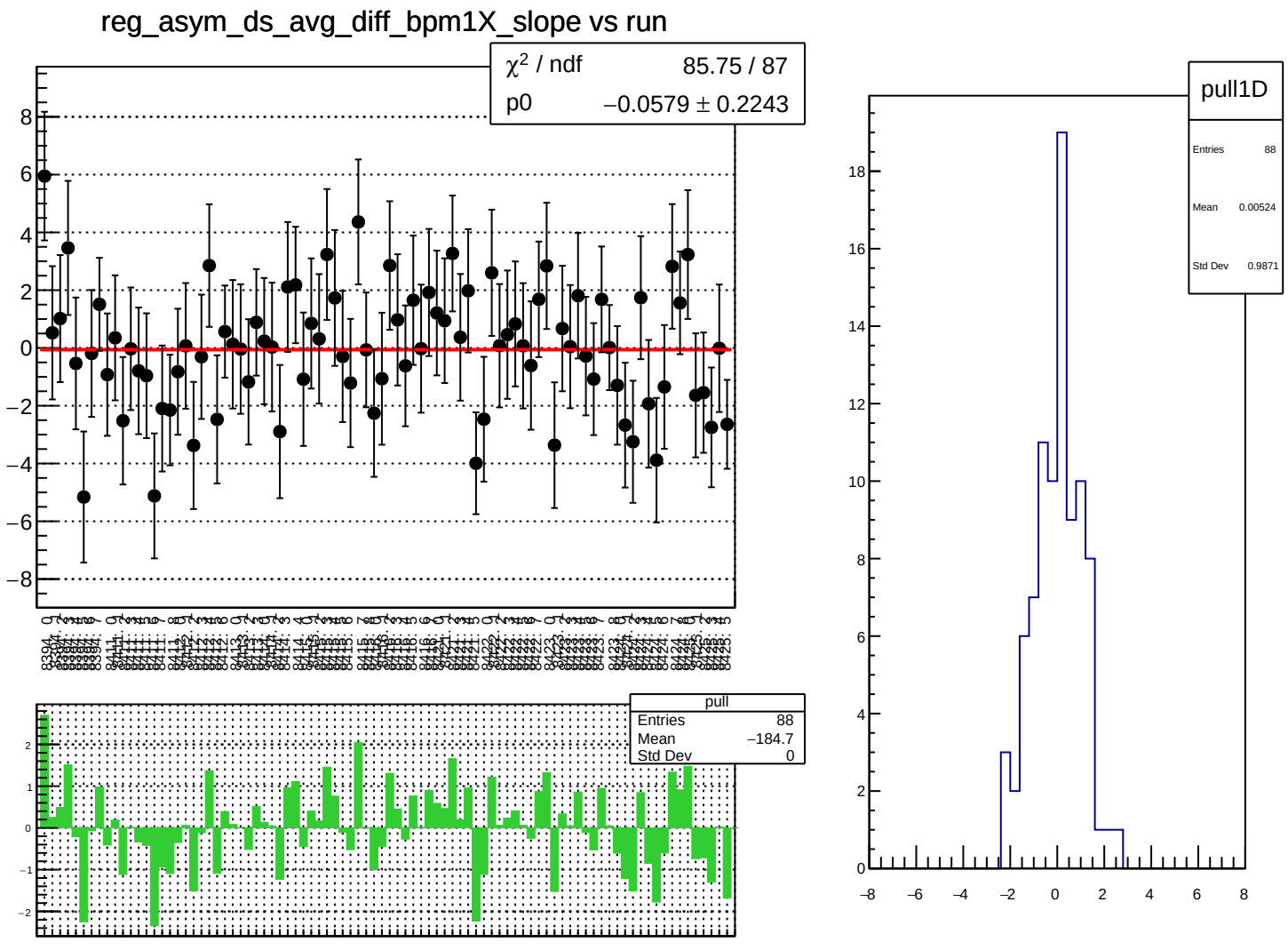

pull1D
Entries 88
Mean −0.009086
Std Dev 0.5241

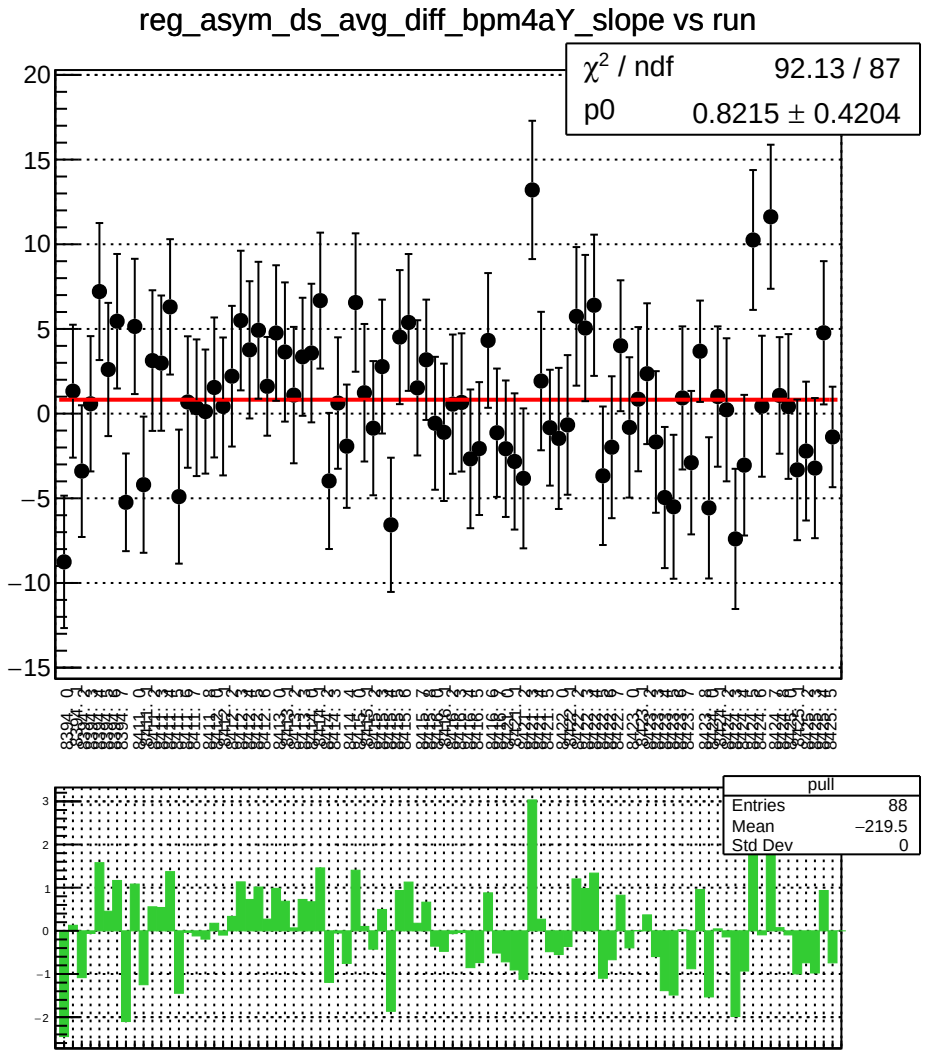

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.37 / 87
p0 4.985 ± 2.974
pull
Entries 88
Mean 61.91
Std Dev 0

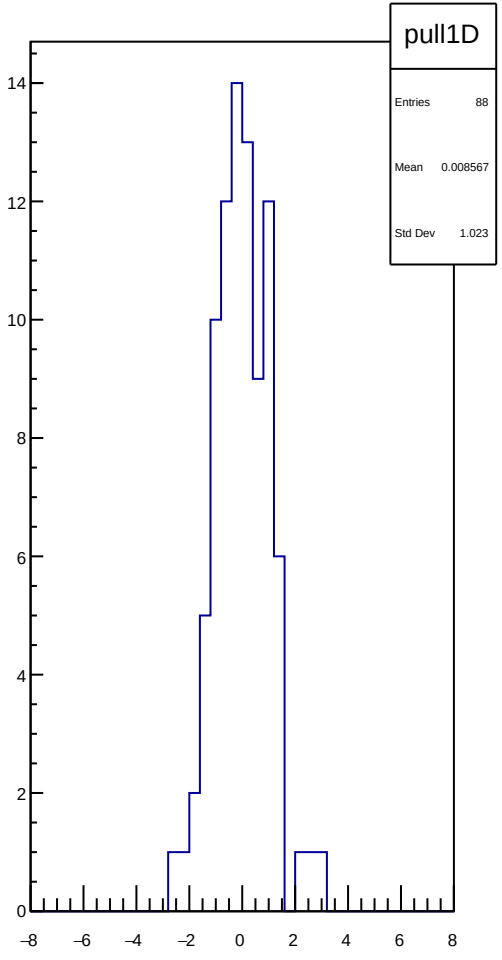

pull1D
Entries 88
Mean −0.006109
Std Dev 0.4568

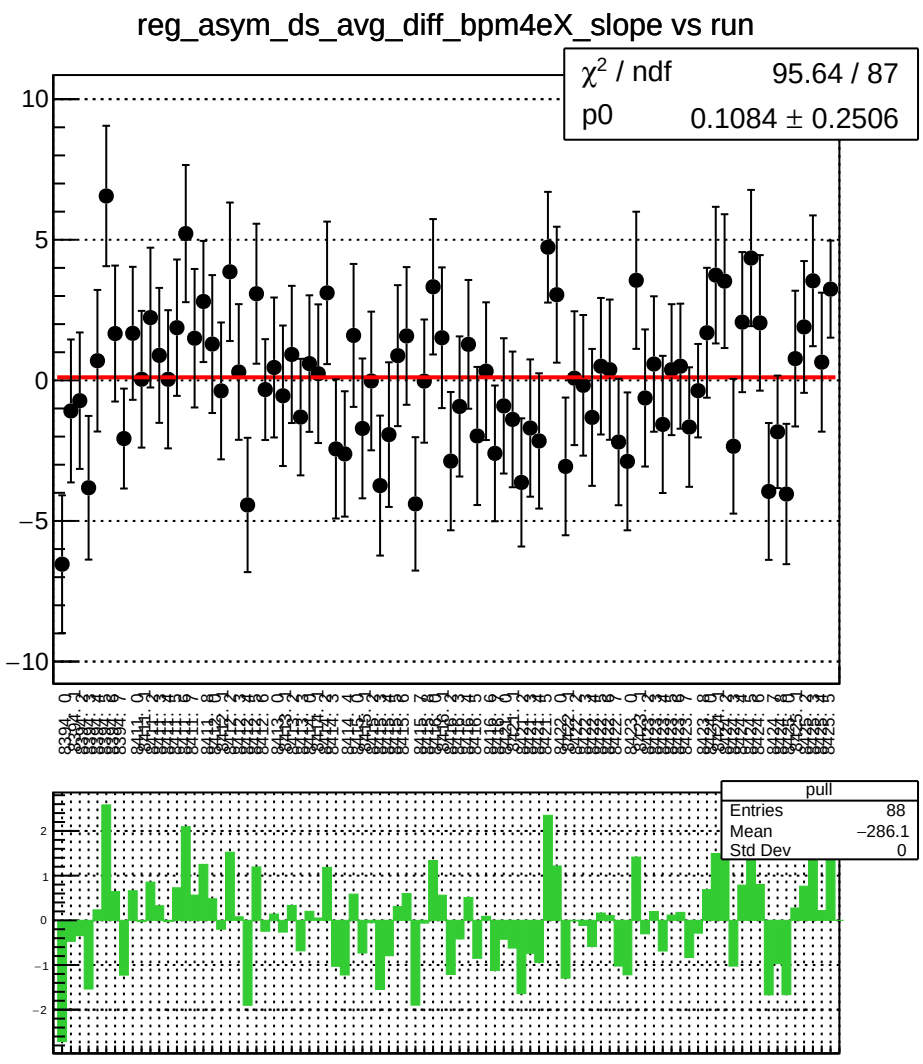

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 22.29 / 87
p0 2.213 ± 0.1785
pull
Entries 88
Mean 148.1
Std Dev 0

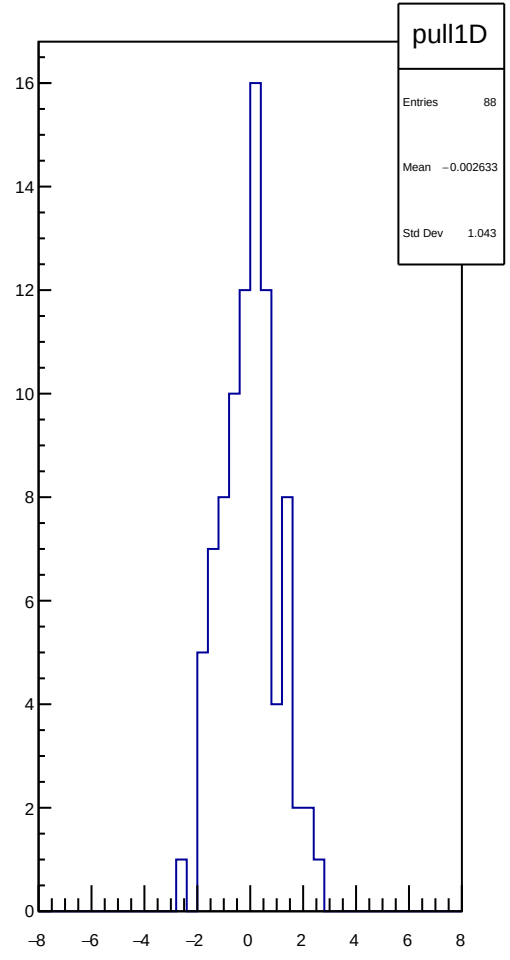

pull1D
Entries 88
Mean −0.01917
Std Dev 0.503

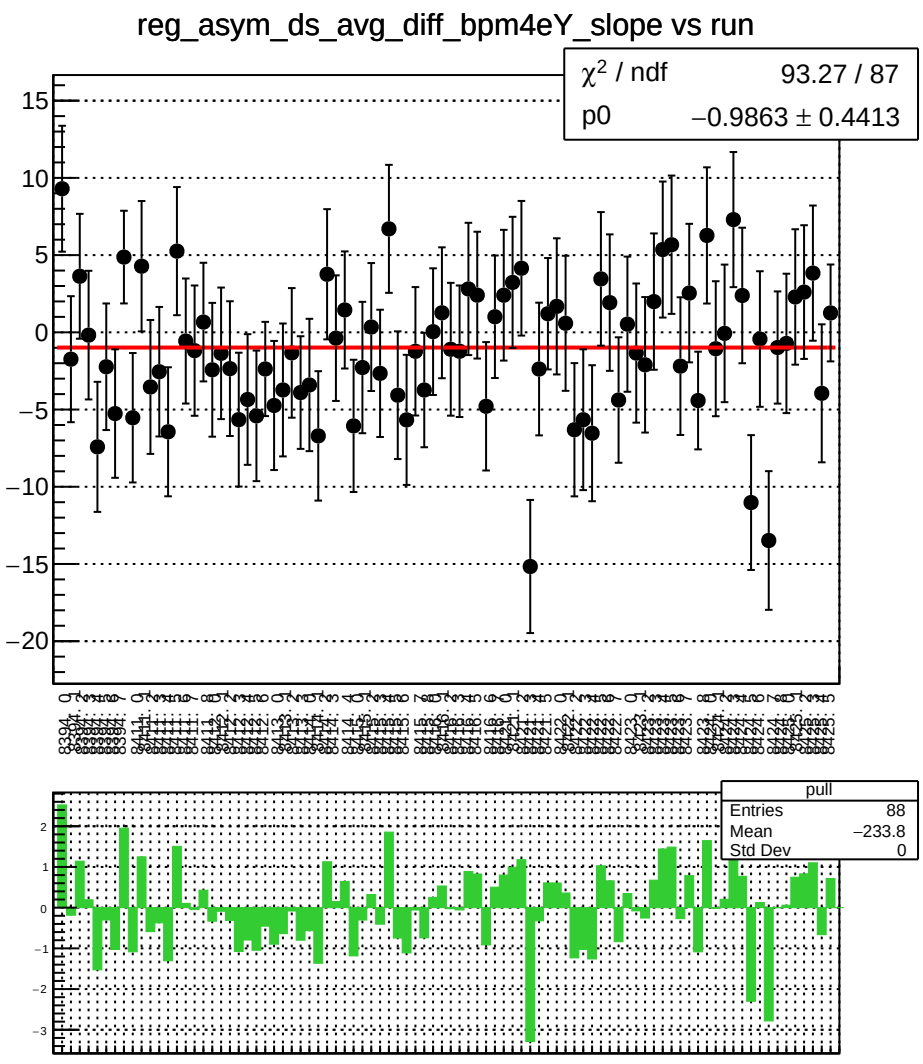

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 85.75 / 87
p0 −0.0579 ± 0.2243
pull
Entries 88
Mean −184.7
Std Dev 0
pull1D
Entries 88
Mean 0.00524
Std Dev 0.9871

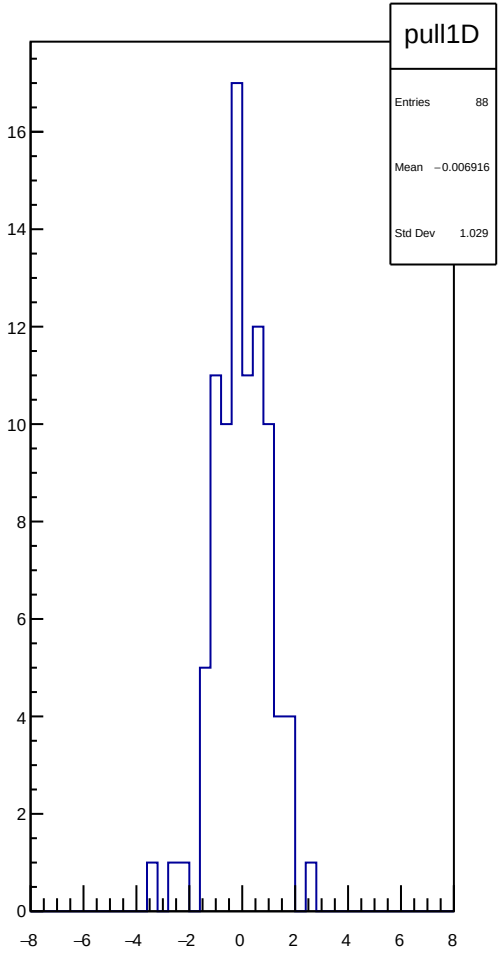

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 92.13 / 87
p0 0.8215 ± 0.4204
pull
Entries 88
Mean −219.5
Std Dev 0

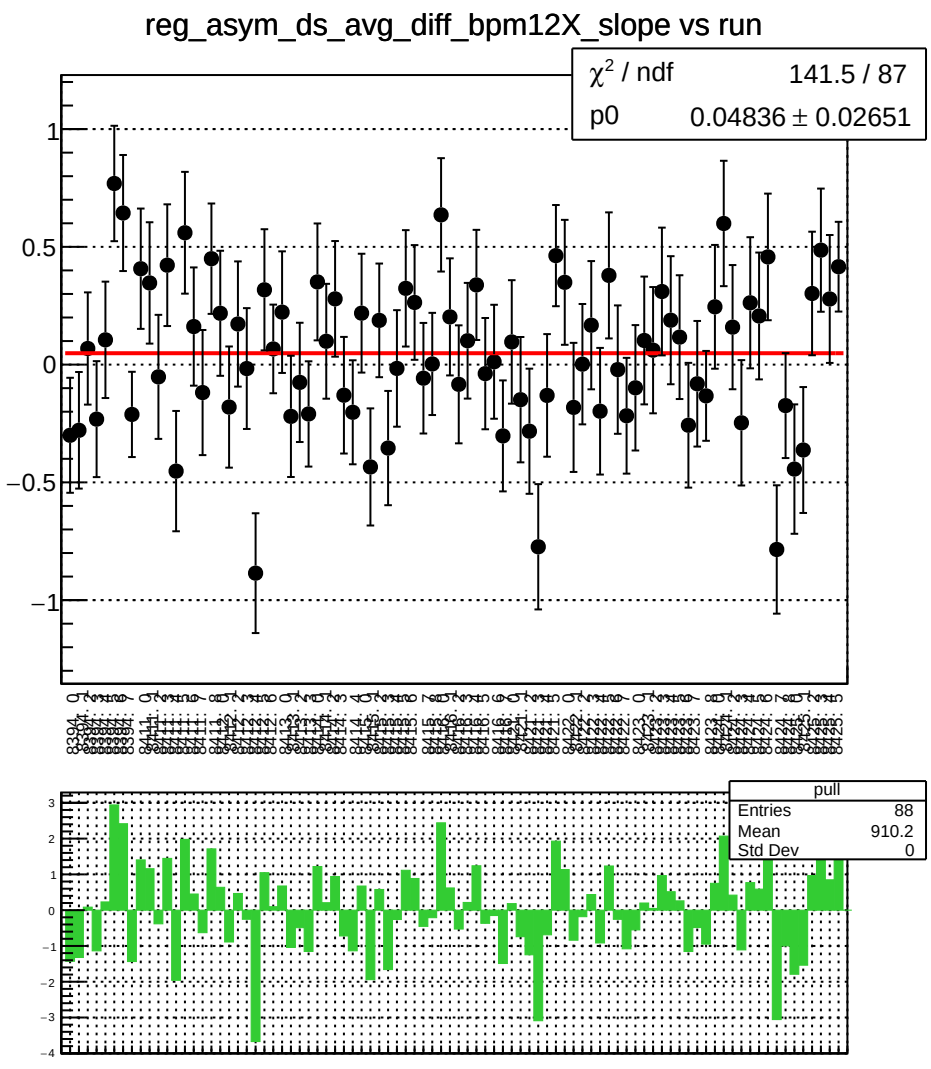

pull1D
Entries 88
Mean 0.008567
Std Dev 1.023

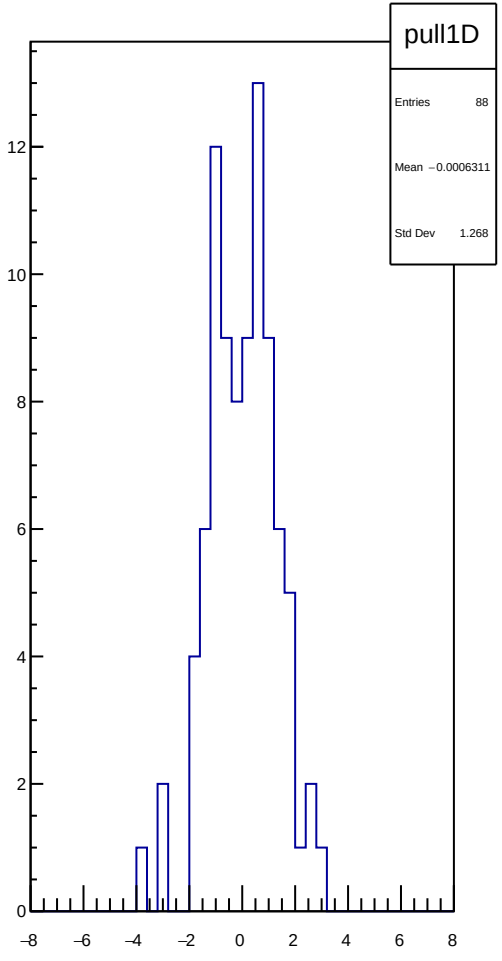

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 95.64 / 87
p0 0.1084 ± 0.2506
pull
Entries 88
Mean −286.1
Std Dev 0

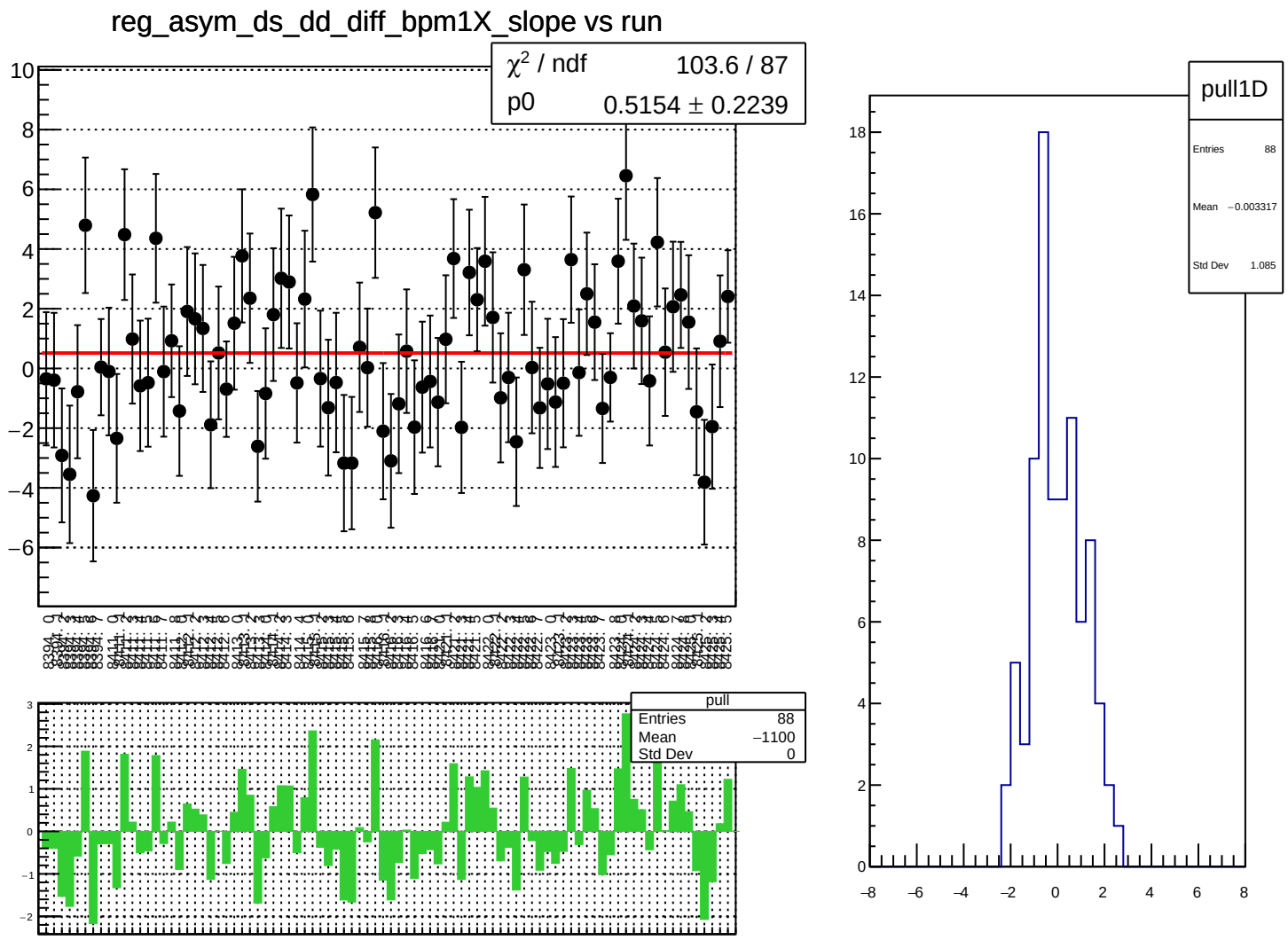

pull1D
Entries 88
Mean −0.002633
Std Dev 1.043

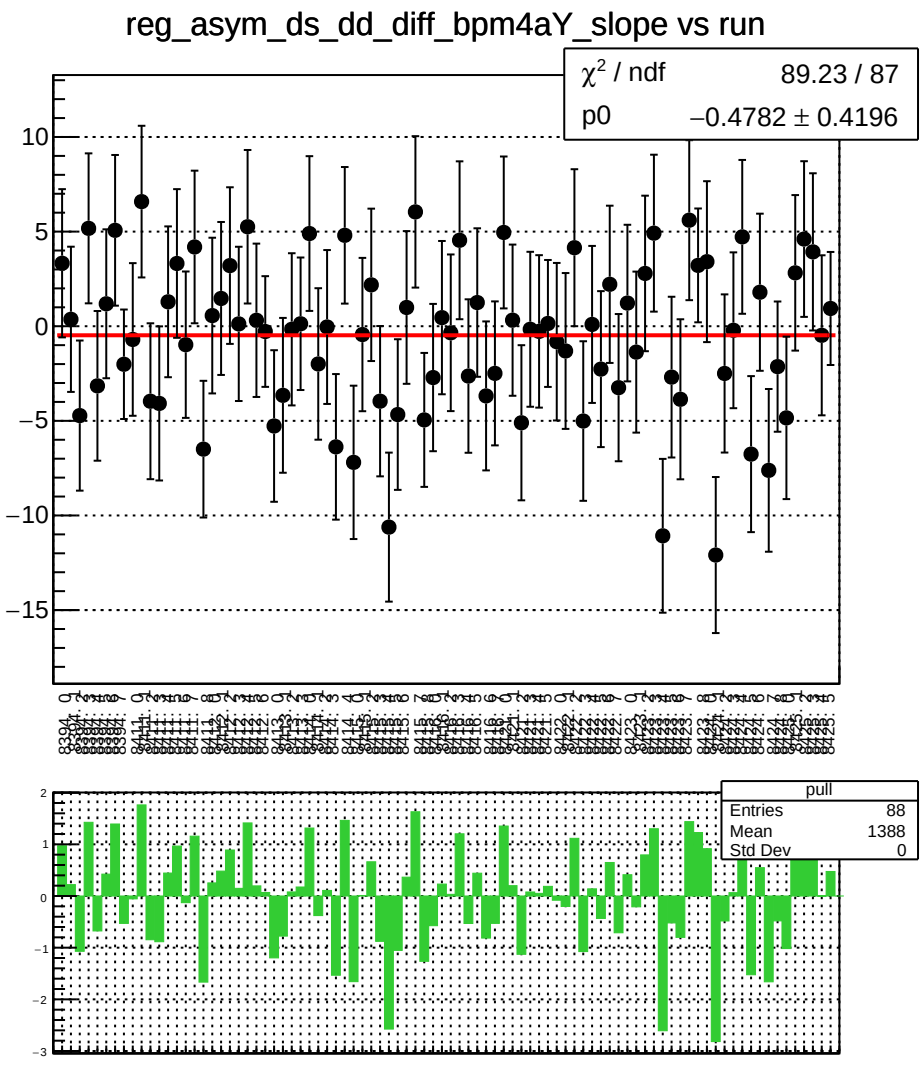

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 93.27 / 87
p0 −0.9863 ± 0.4413
pull
Entries 88
Mean −233.8
Std Dev 0

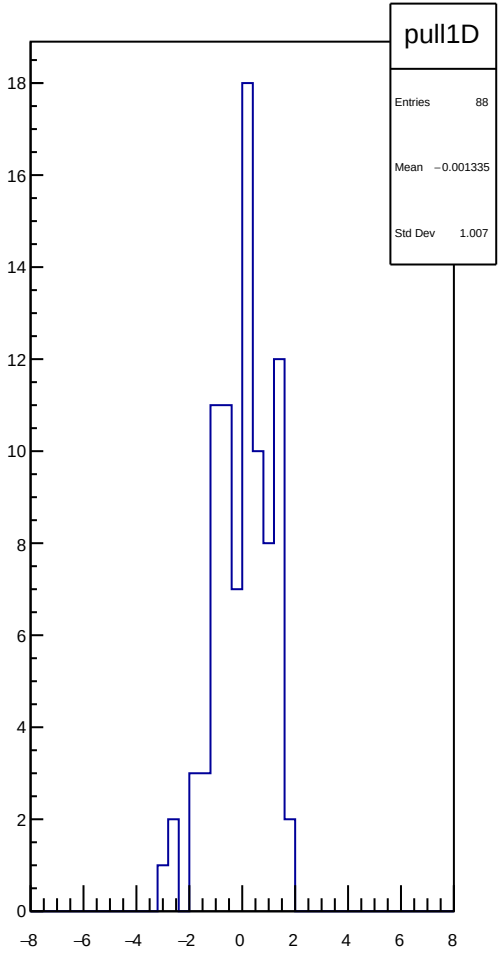

pull1D
Entries 88
Mean −0.006916
Std Dev 1.029

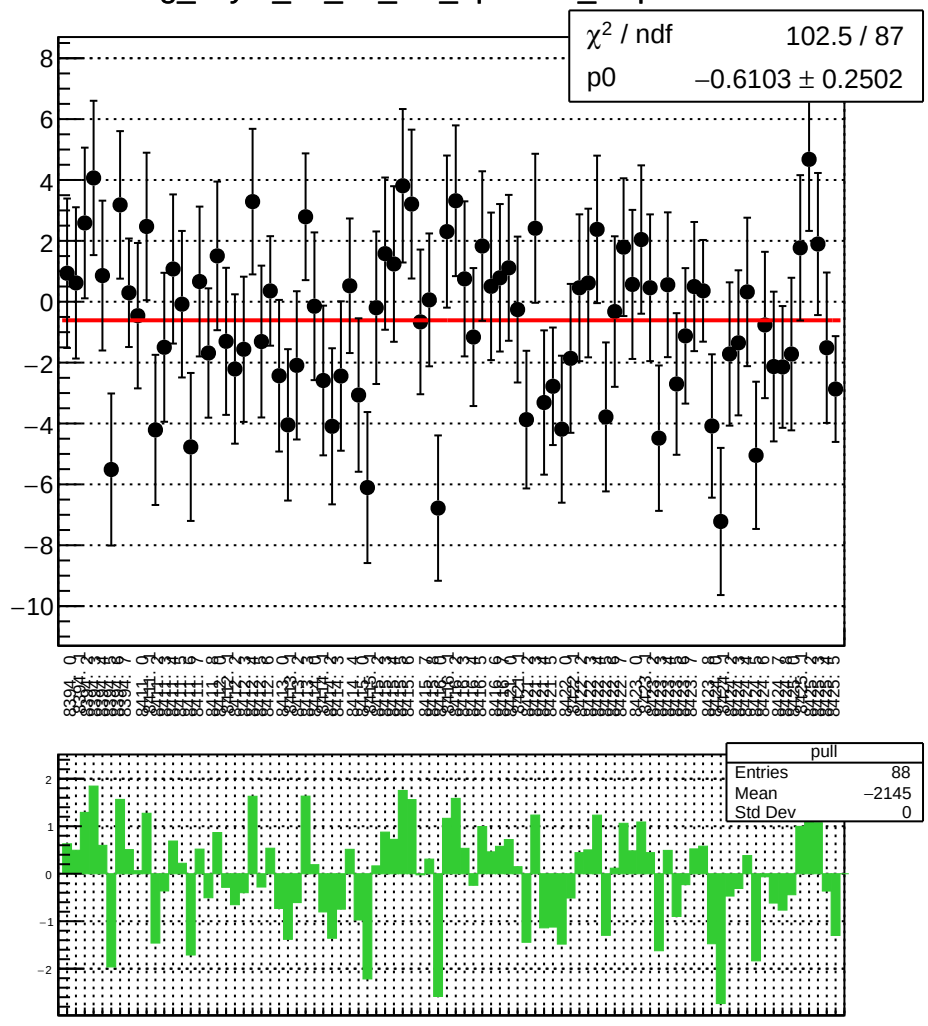

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 141.5 / 87
p0 0.04836 ± 0.02651
pull
Entries 88
Mean 910.2
Std Dev 0

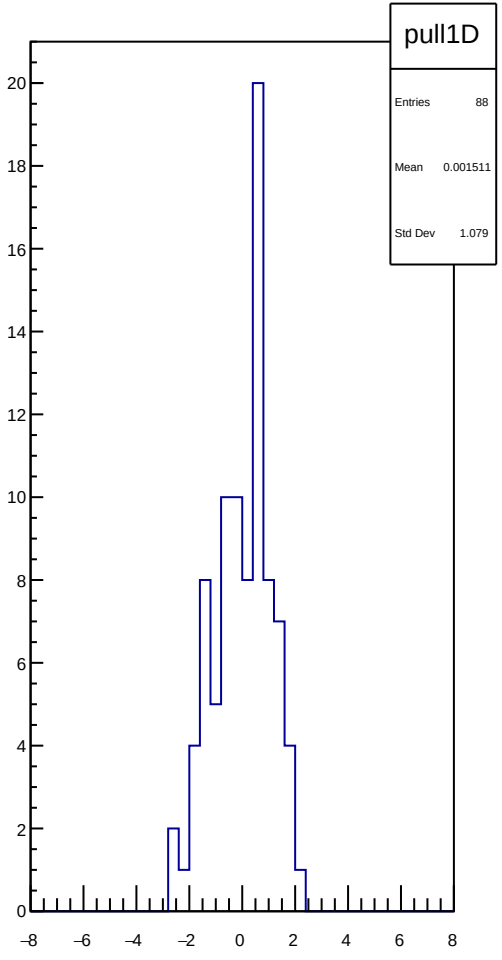

pull1D
Entries 88
Mean −0.0006311
Std Dev 1.268

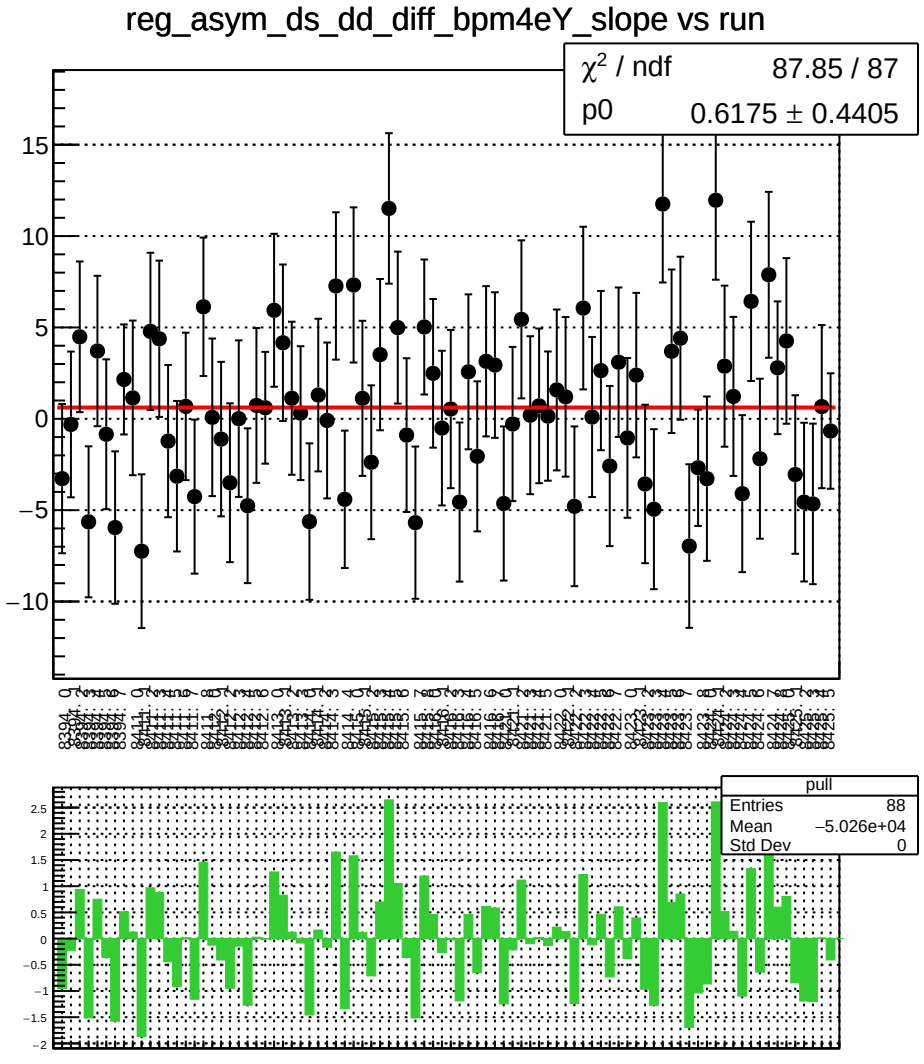

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 103.6 / 87
p0 0.5154 ± 0.2239
pull
Entries 88
Mean −1100
Std Dev 0
pull1D
Entries 88
Mean −0.003317
Std Dev 1.085

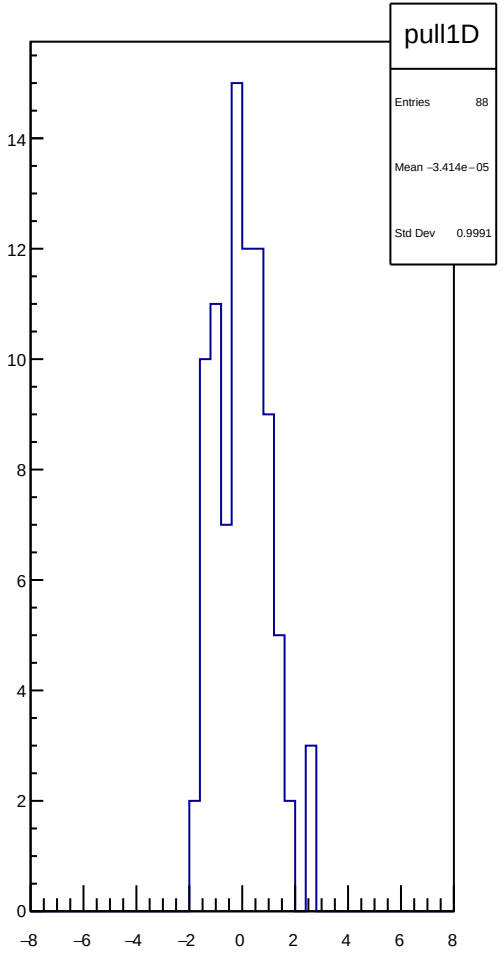

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 89.23 / 87
p0 −0.4782 ± 0.4196
pull
Entries 88
Mean 1388
Std Dev 0

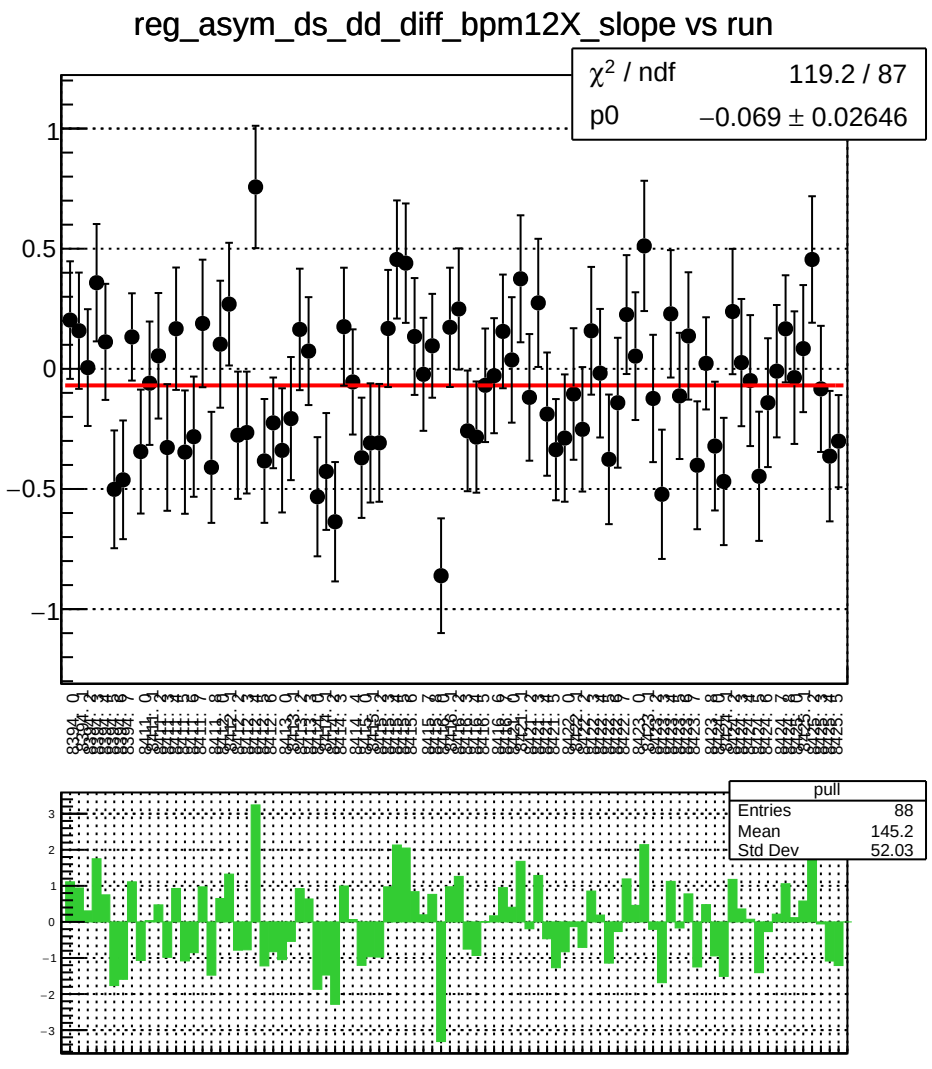

pull1D
Entries 88
Mean −0.001335
Std Dev 1.007

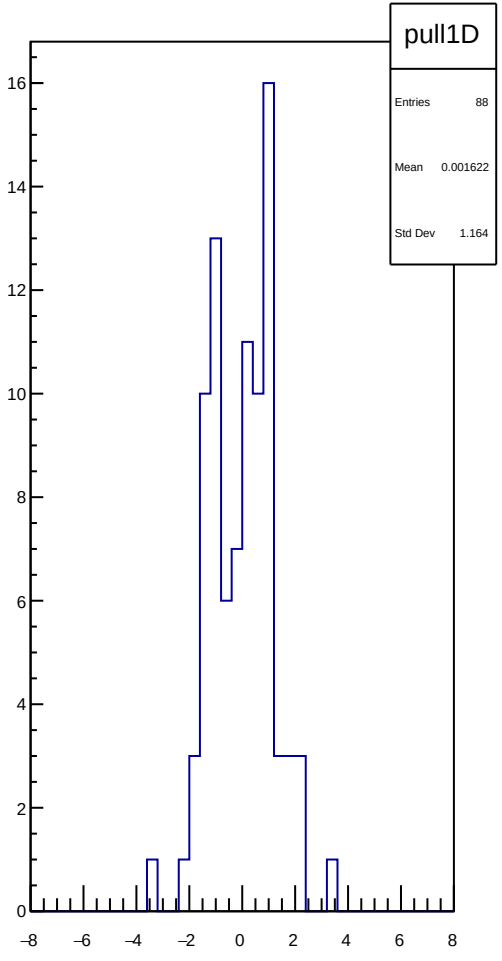

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 102.5 / 87
p0 −0.6103 ± 0.2502
pull
Entries 88
Mean −2145
Std Dev 0

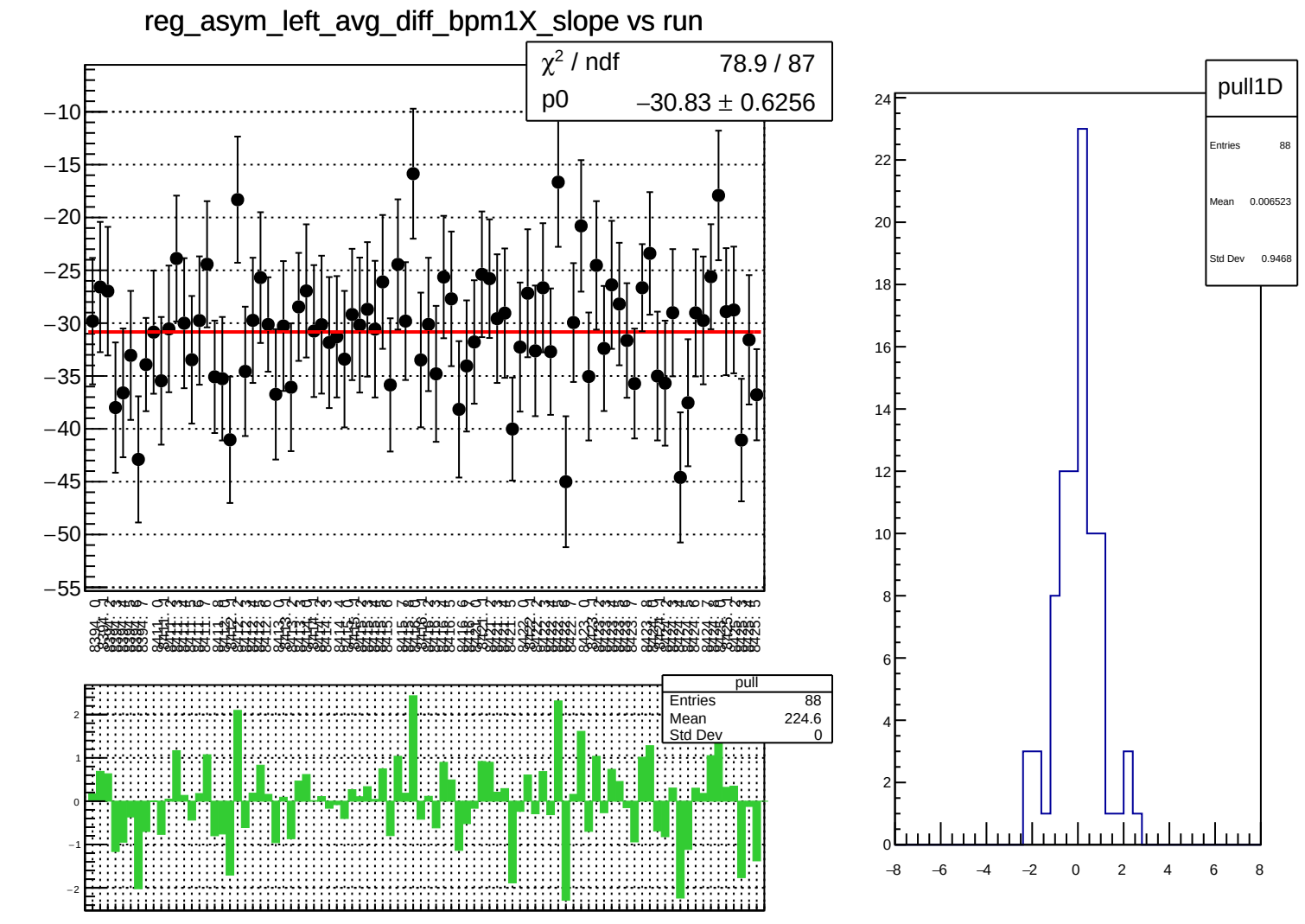

pull1D
Entries 88
Mean 0.001511
Std Dev 1.079

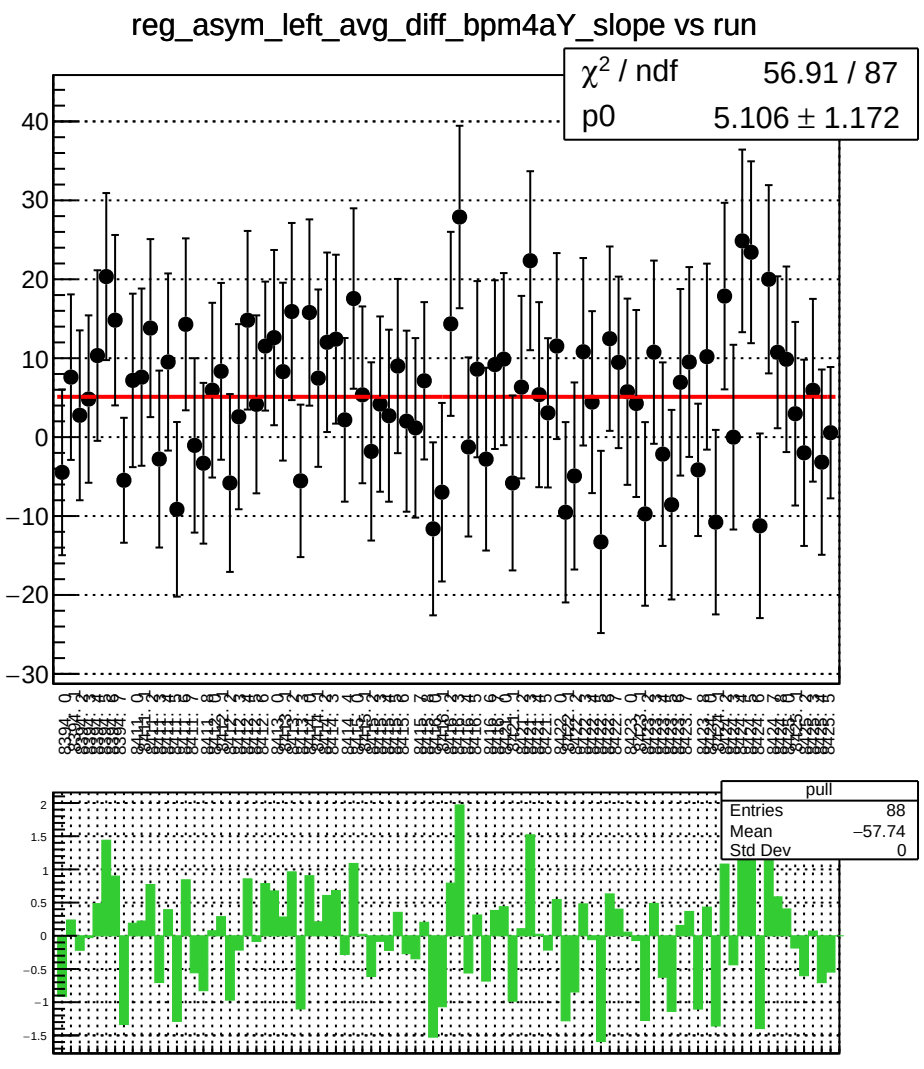

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 87.85 / 87
p0 0.6175 ± 0.4405
pull
Entries 88
Mean −5.026e+04
Std Dev 0

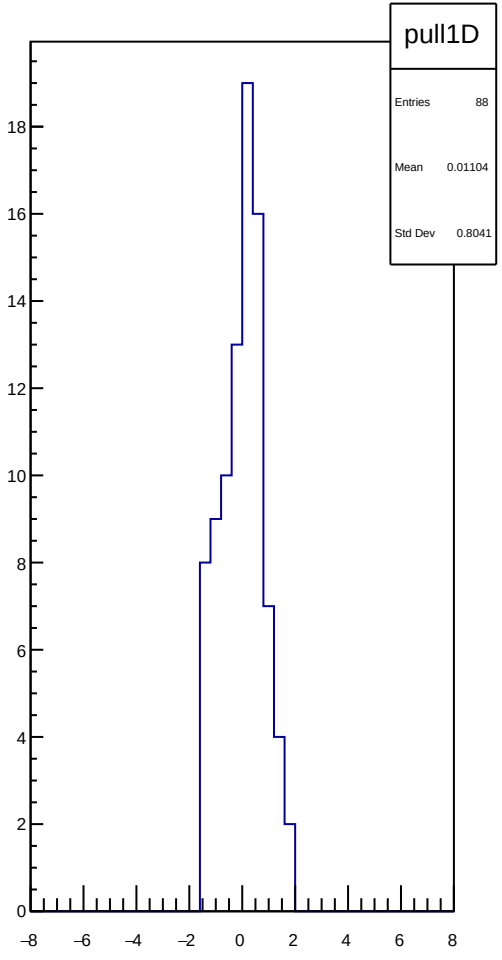

pull1D
Entries 88
Mean −3.414e−05
Std Dev 0.9991

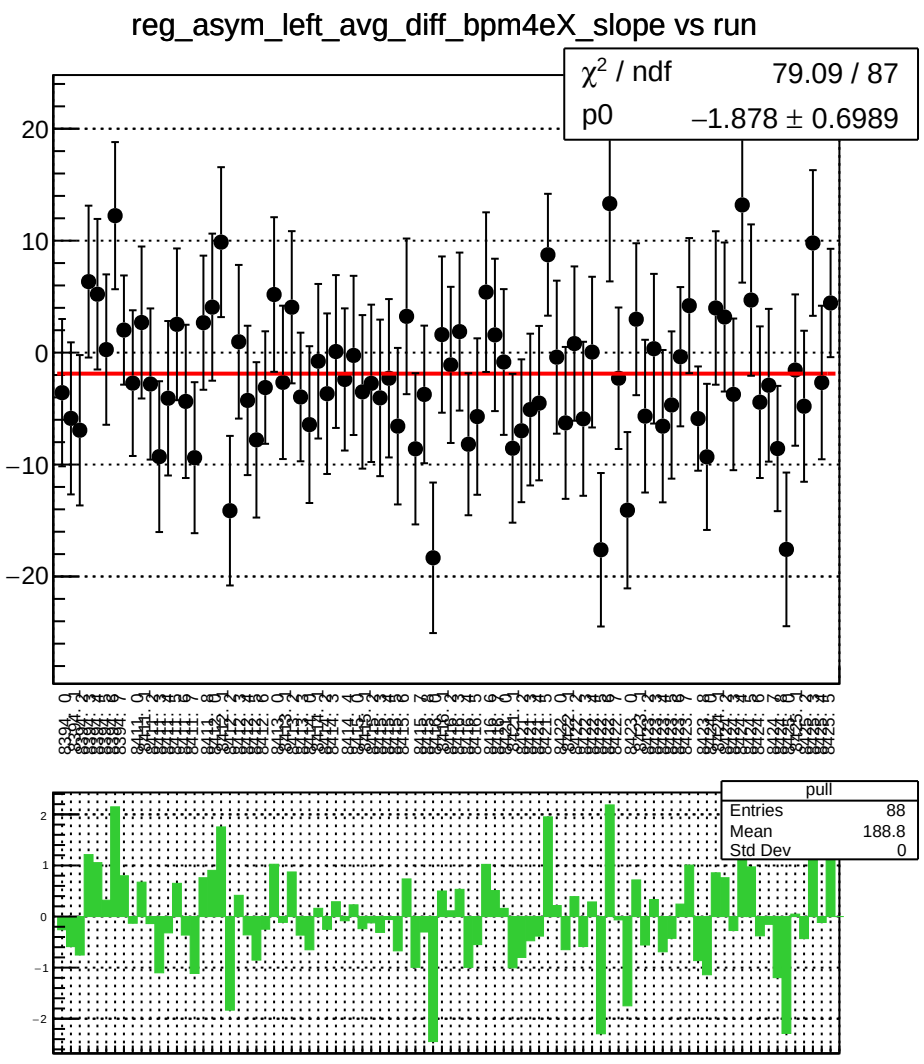

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 119.2 / 87
p0 −0.069 ± 0.02646
pull
Entries 88
Mean 145.2
Std Dev 52.03

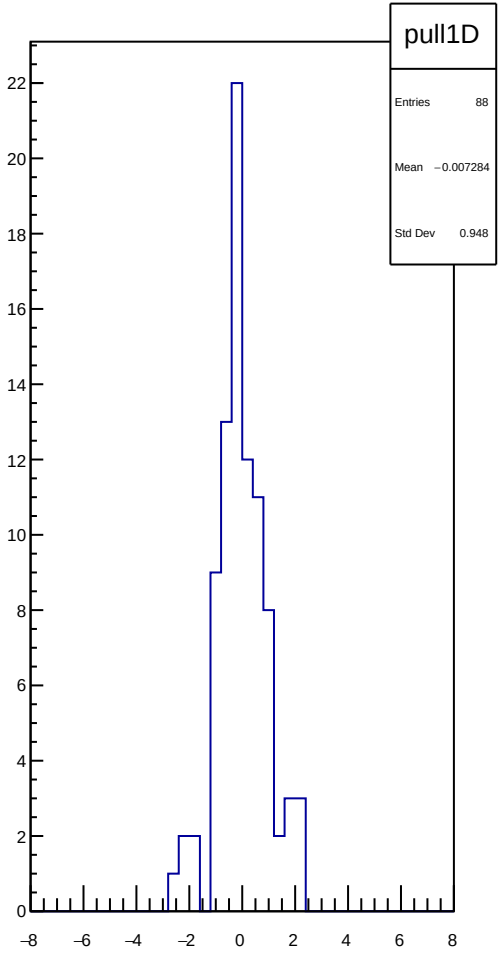

pull1D
Entries 88
Mean 0.001622
Std Dev 1.164

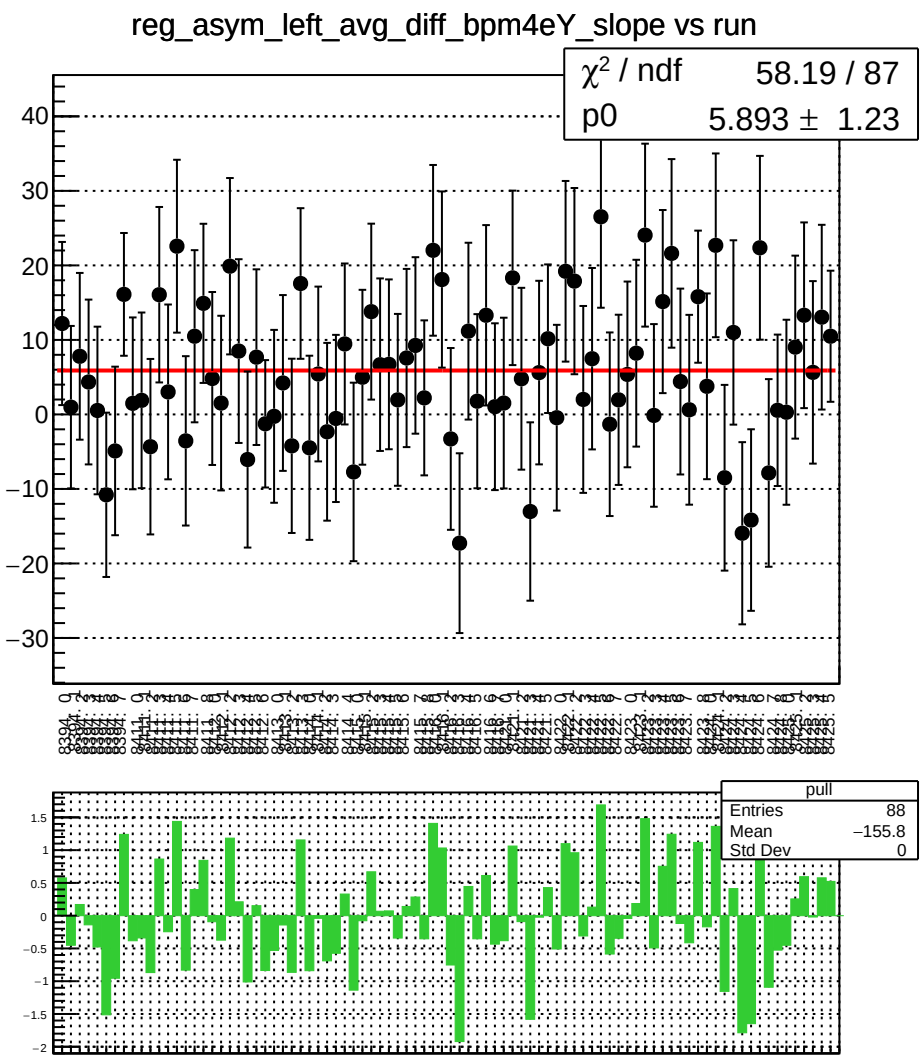

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 78.9 / 87
p0 −30.83 ± 0.6256
pull
Entries 88
Mean 224.6
Std Dev 0
pull1D
Entries 88
Mean 0.006523
Std Dev 0.9468

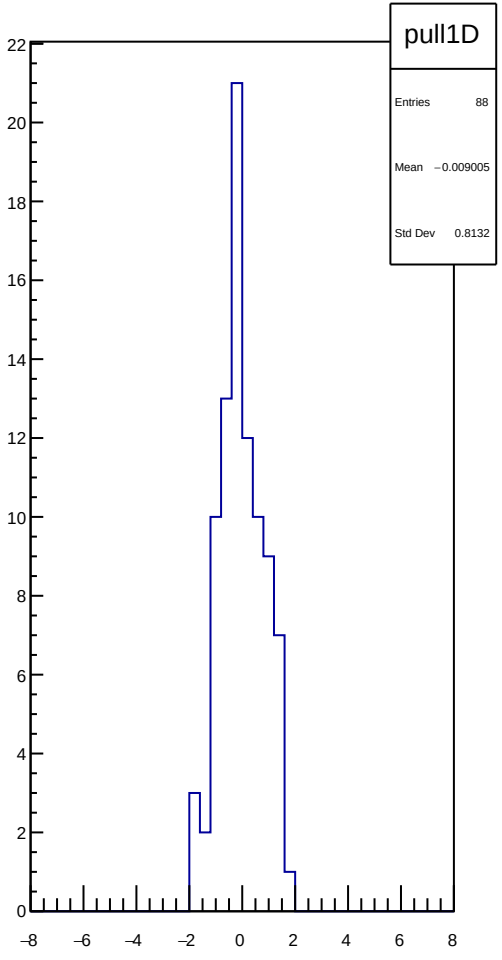

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 56.91 / 87
p0 5.106 ± 1.172
pull
Entries 88
Mean −57.74
Std Dev 0

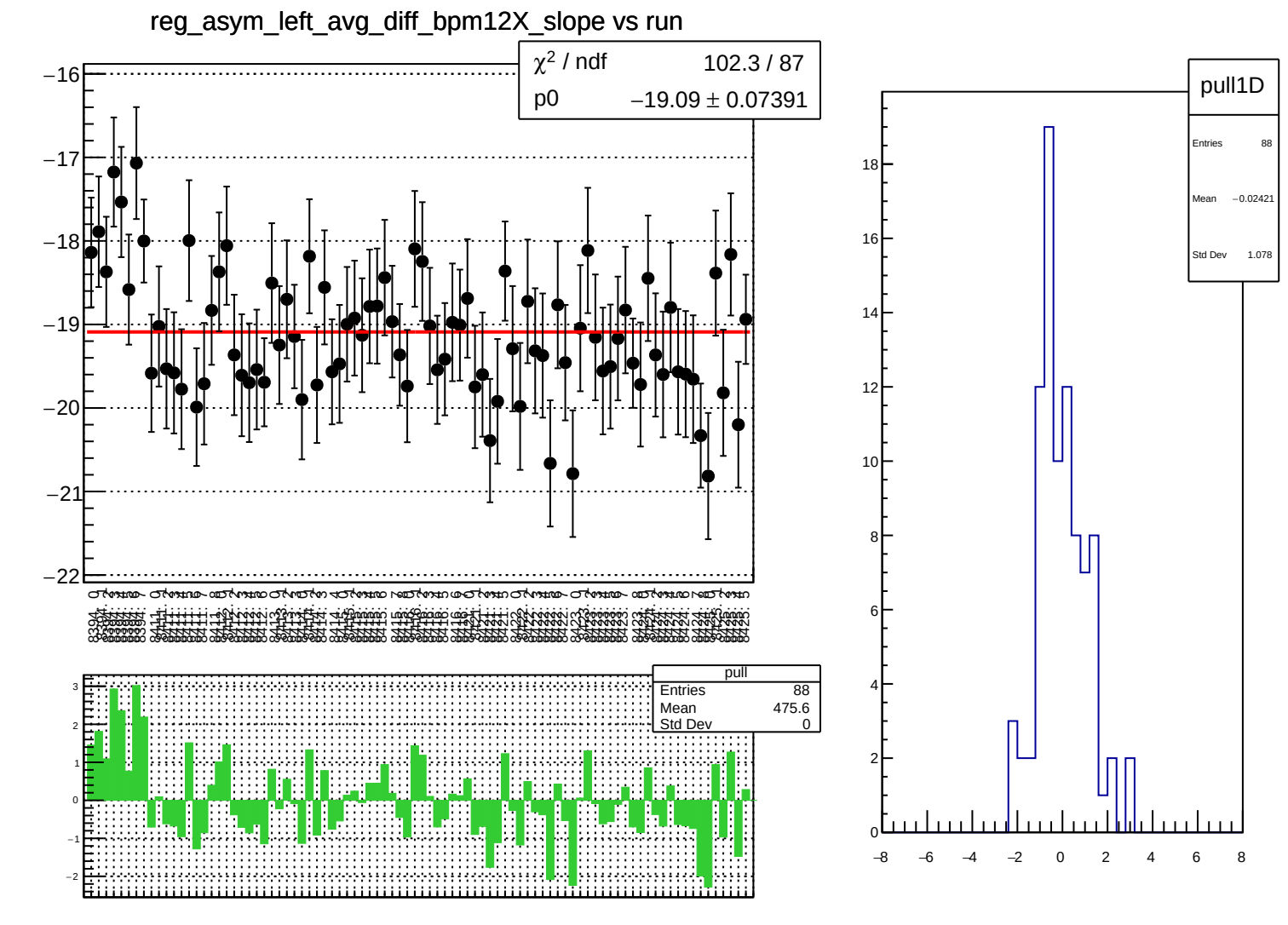

pull1D
Entries 88
Mean 0.01104
Std Dev 0.8041

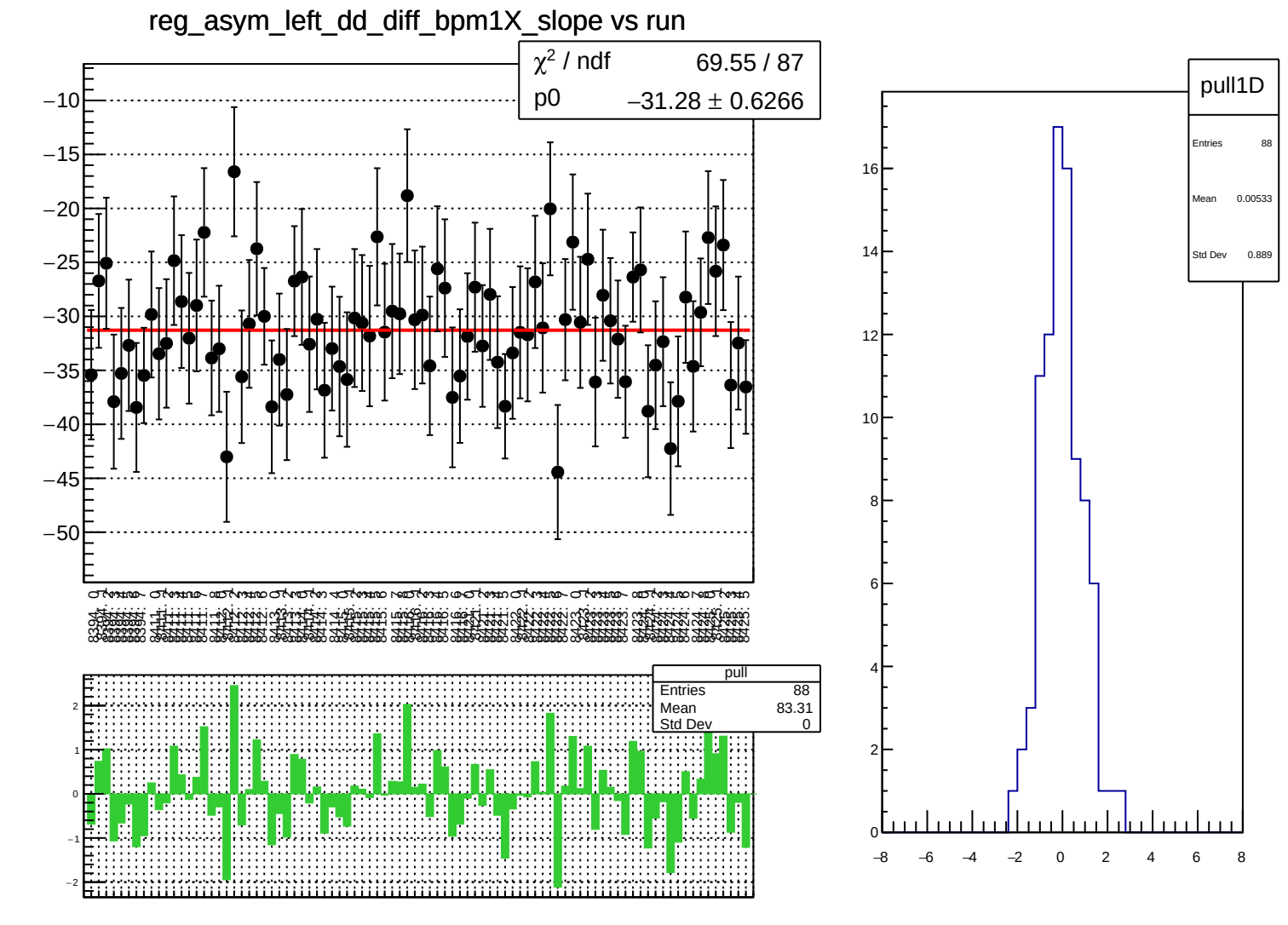

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 79.09 / 87
p0 −1.878 ± 0.6989
pull
Entries 88
Mean 188.8
Std Dev 0

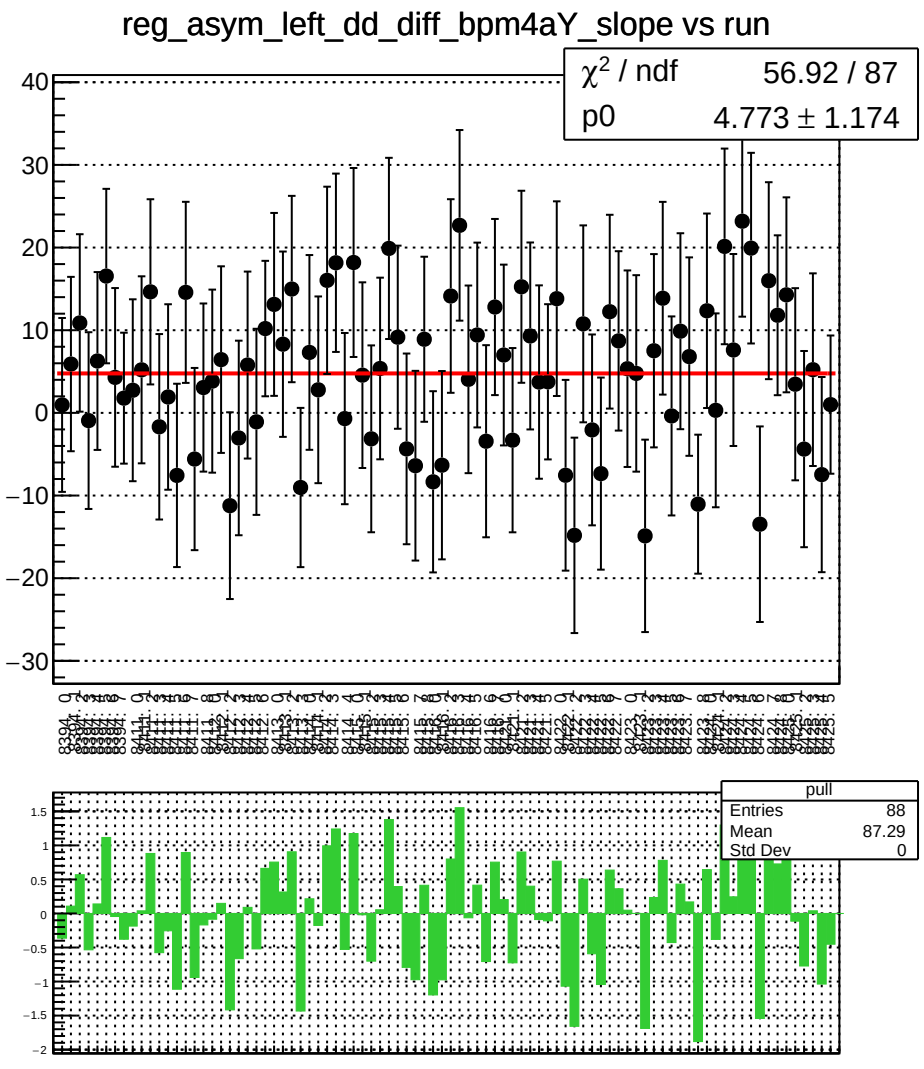

pull1D
Entries 88
Mean −0.007284
Std Dev 0.948

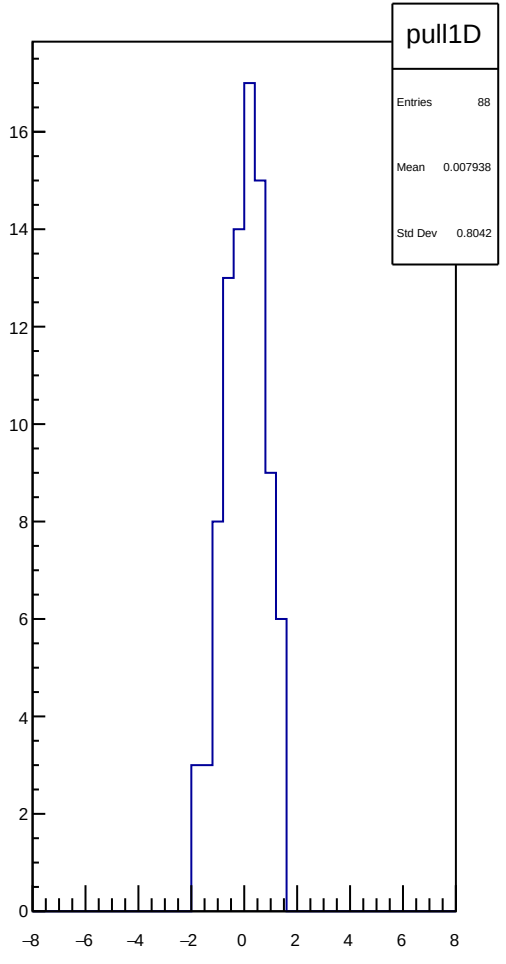

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 58.19 / 87
p0 5.893 ± 1.23
pull
Entries 88
Mean −155.8
Std Dev 0

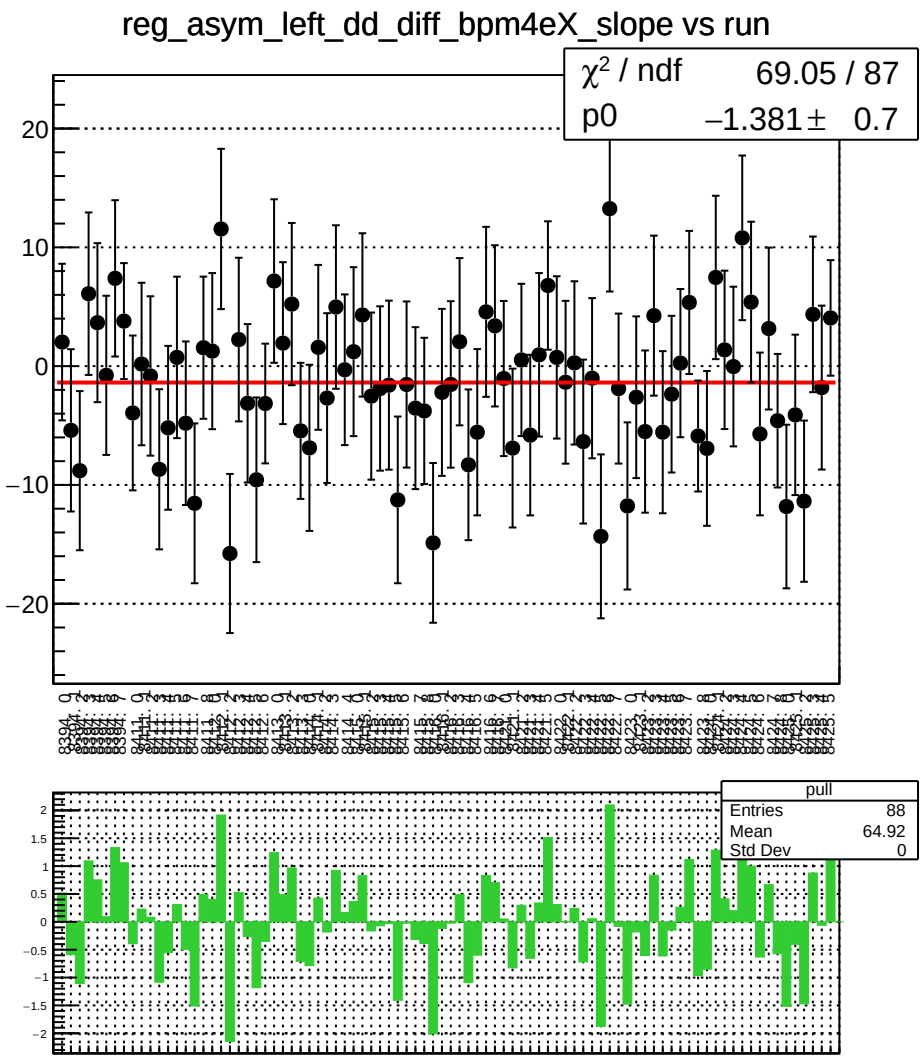

pull1D
Entries 88
Mean −0.009005
Std Dev 0.8132

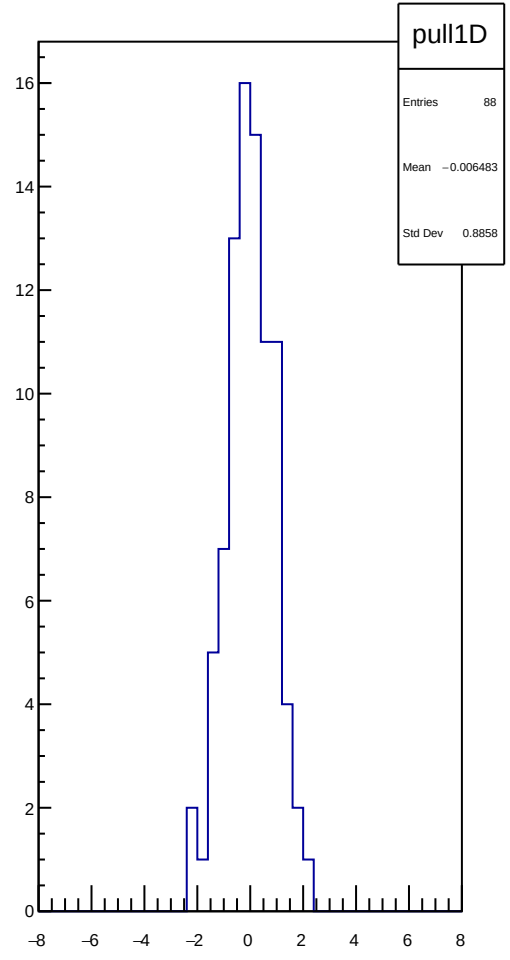

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 102.3 / 87
p0 −19.09 ± 0.07391
pull
Entries 88
Mean 475.6
Std Dev 0
pull1D
Entries 88
Mean −0.02421
Std Dev 1.078

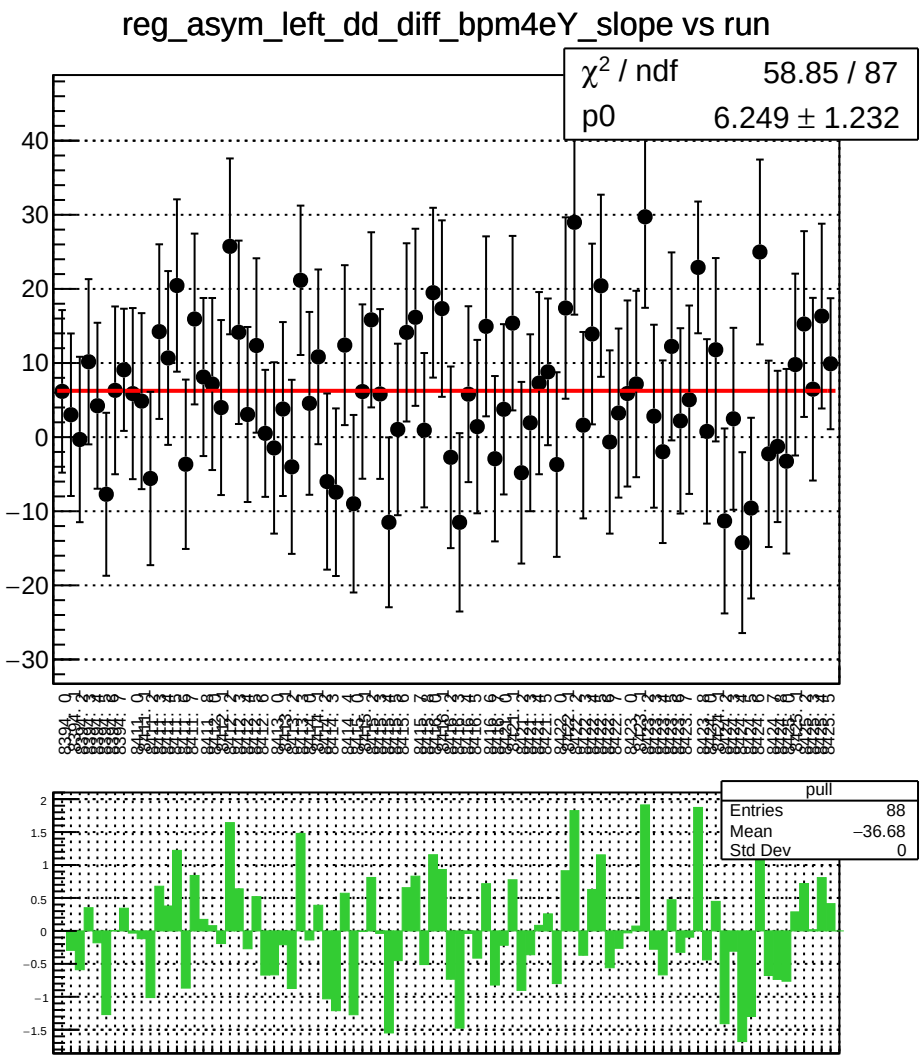

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 69.55 / 87
p0 −31.28 ± 0.6266
pull
Entries 88
Mean 83.31
Std Dev 0
pull1D
Entries 88
Mean 0.00533
Std Dev 0.889

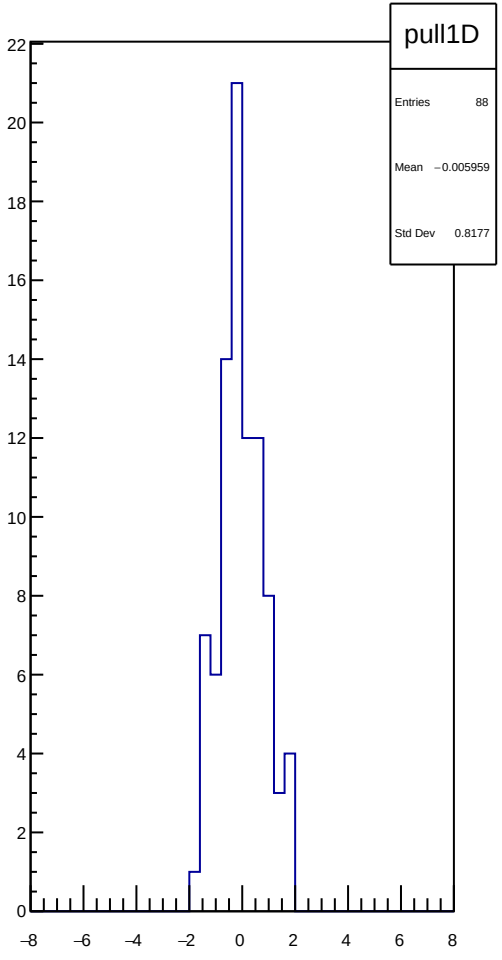

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 56.92 / 87
p0 4.773 ± 1.174
pull
Entries 88
Mean 87.29
Std Dev 0

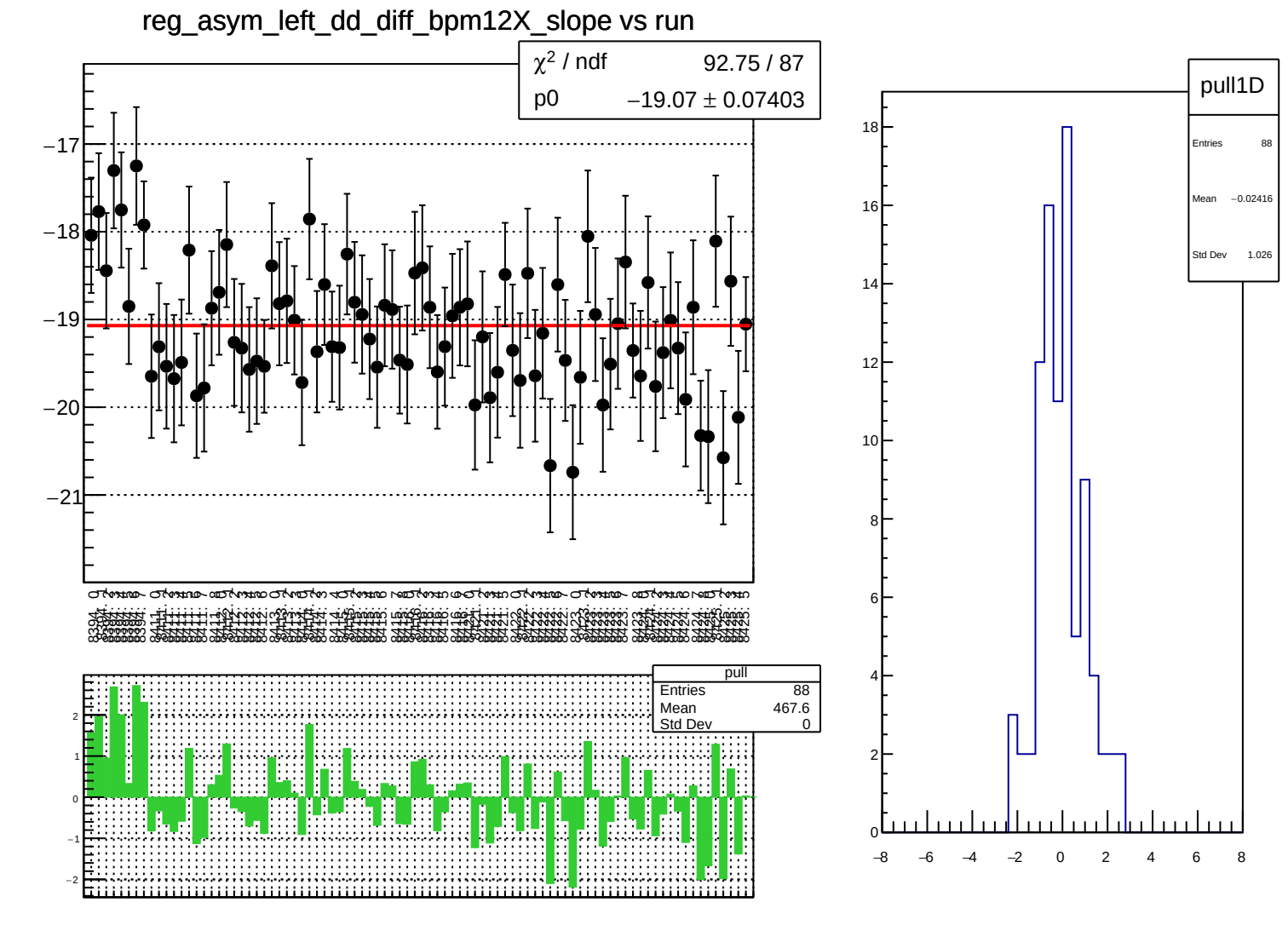

pull1D
Entries 88
Mean 0.007938
Std Dev 0.8042

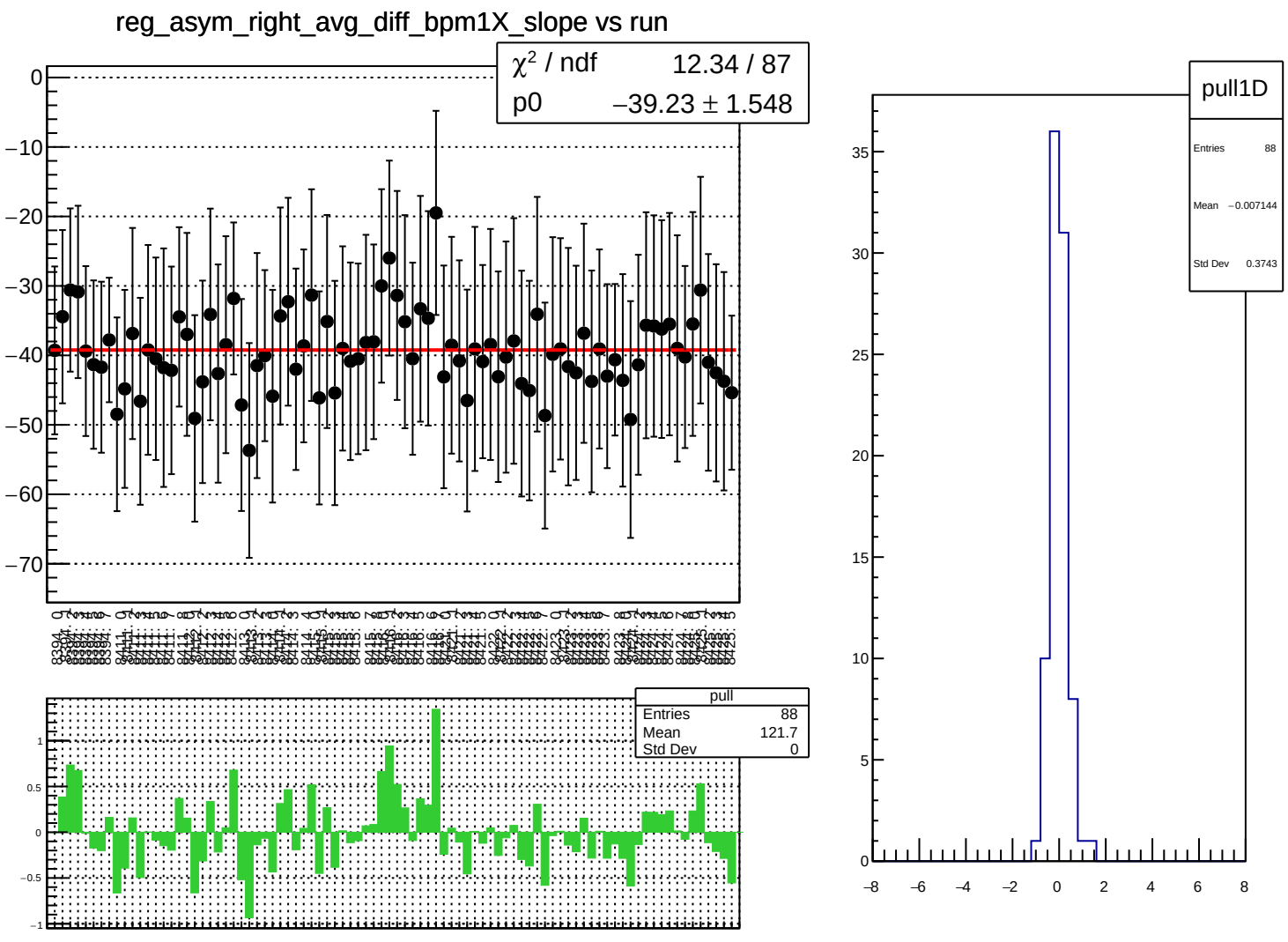

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 69.05 / 87
p0 −1.381 ± 0.7
20
10
0
−10
−20
pull
Entries 88
Mean 64.92
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

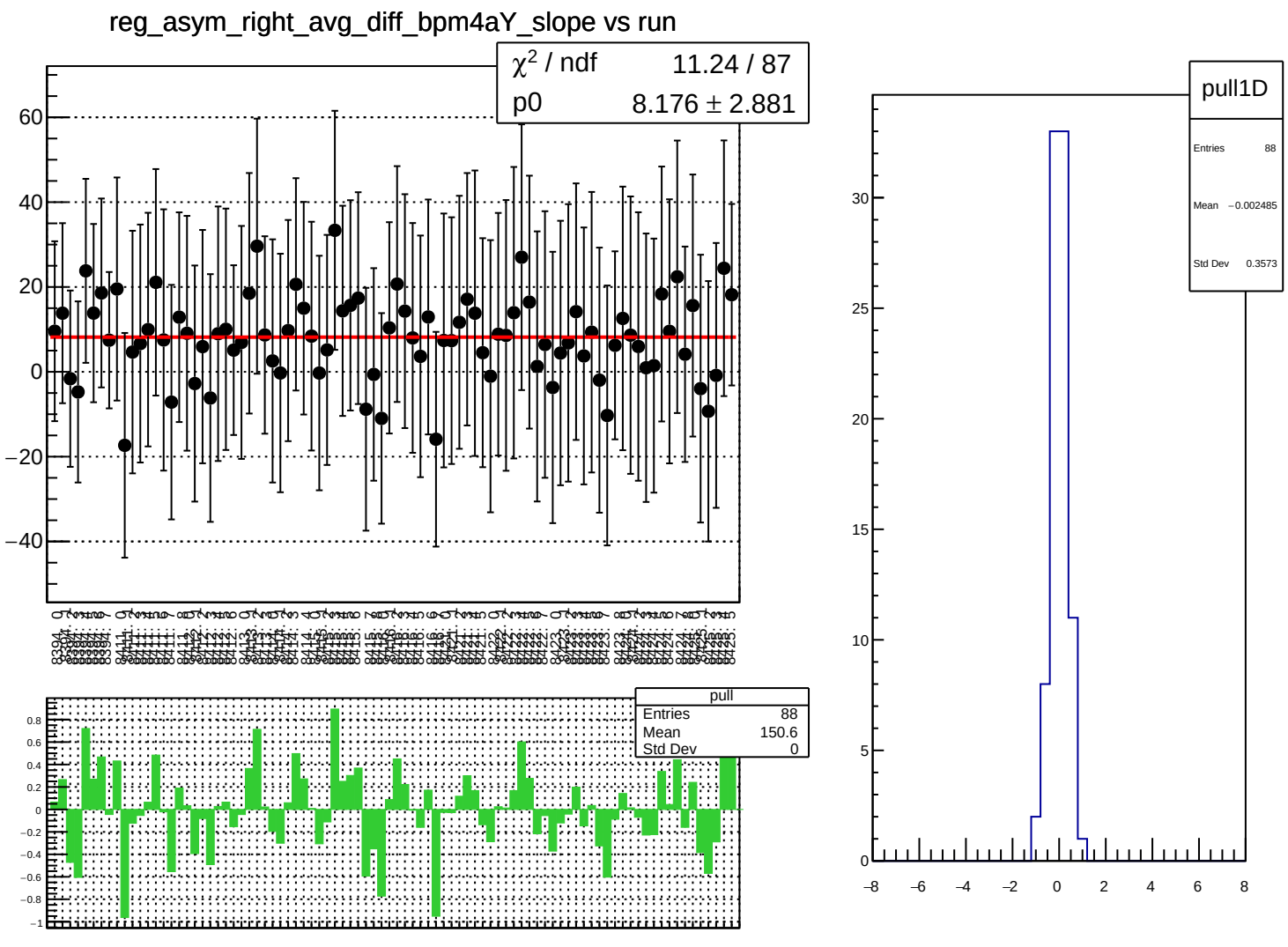

pull1D
Entries 88
Mean −0.006483
Std Dev 0.8858
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

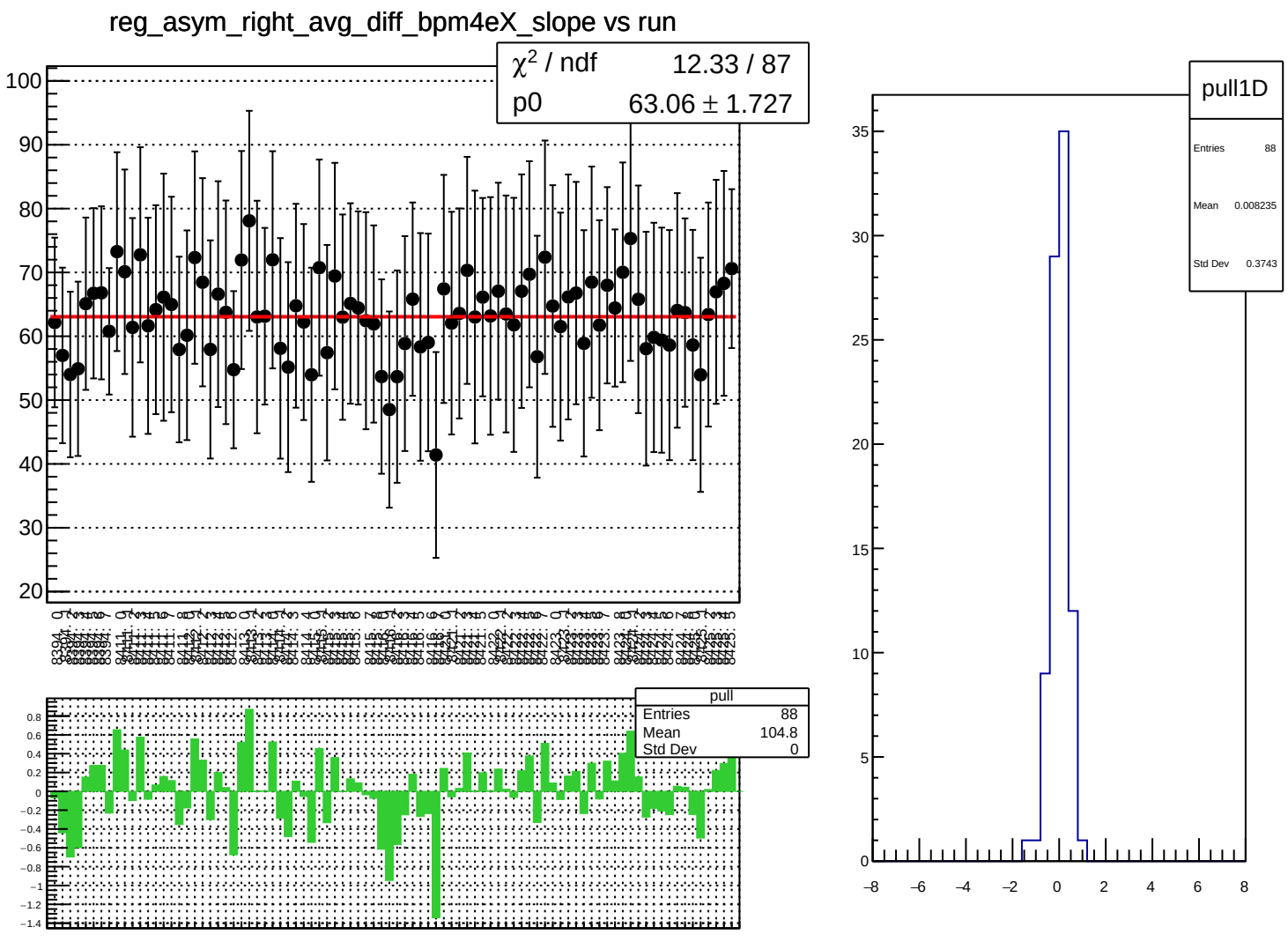

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 58.85 / 87
p0 6.249 ± 1.232
pull
Entries 88
Mean −36.68
Std Dev 0

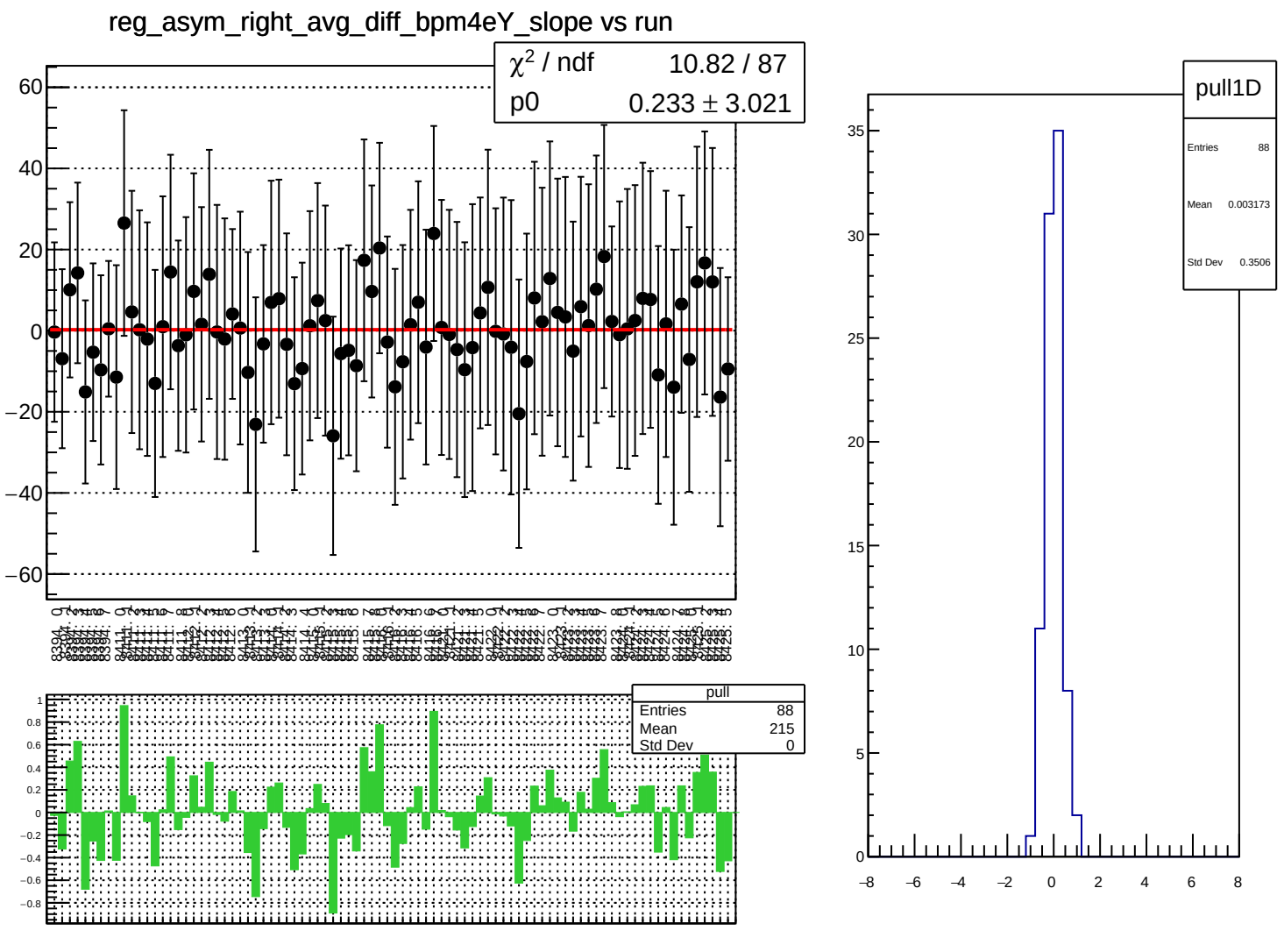

pull1D
Entries 88
Mean −0.005959
Std Dev 0.8177

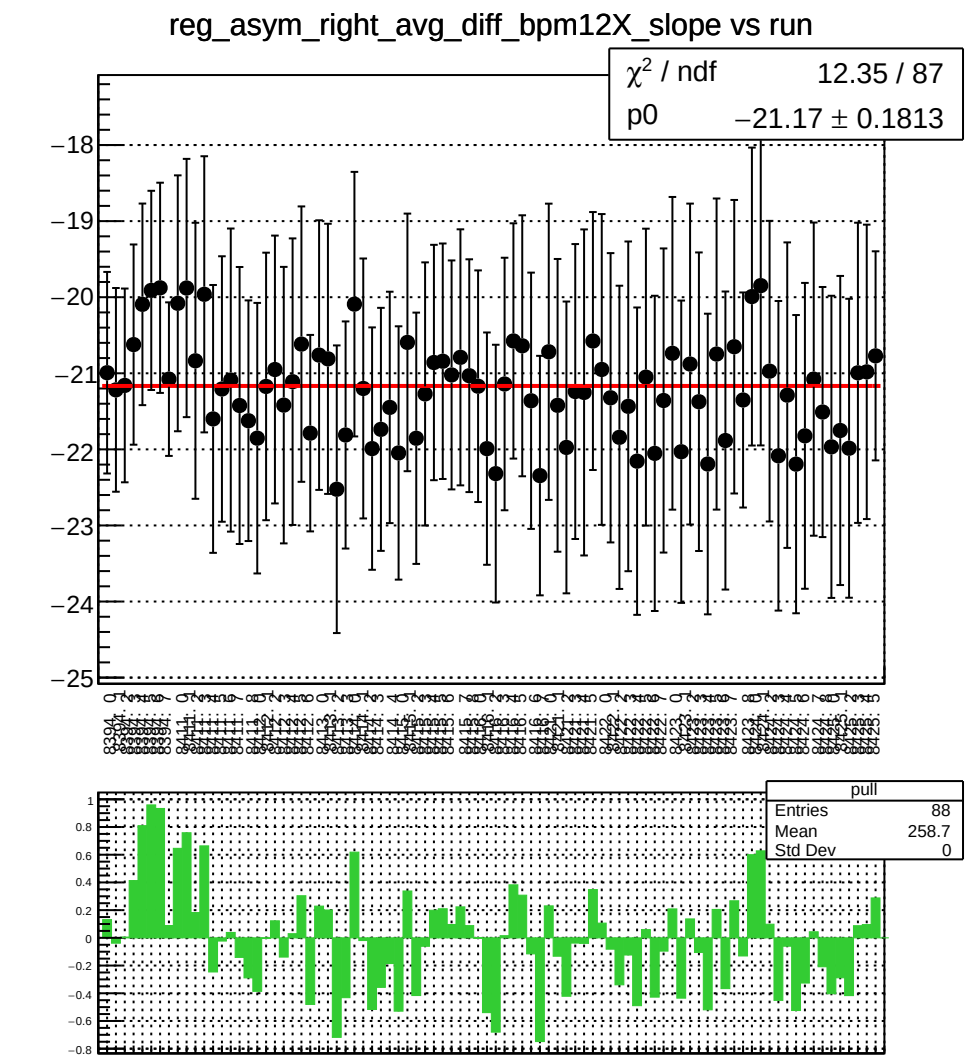

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 92.75 / 87
p0 −19.07 ± 0.07403
pull
Entries 88
Mean 467.6
Std Dev 0
pull1D
Entries 88
Mean −0.02416
Std Dev 1.026

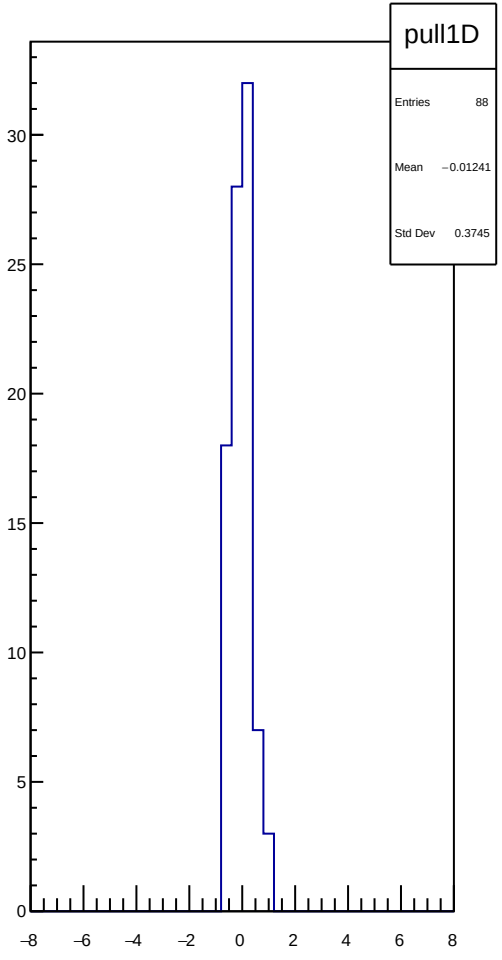

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 12.34 / 87
p0 −39.23 ± 1.548
pull
Entries 88
Mean 121.7
Std Dev 0
pull1D
Entries 88
Mean −0.007144
Std Dev 0.3743

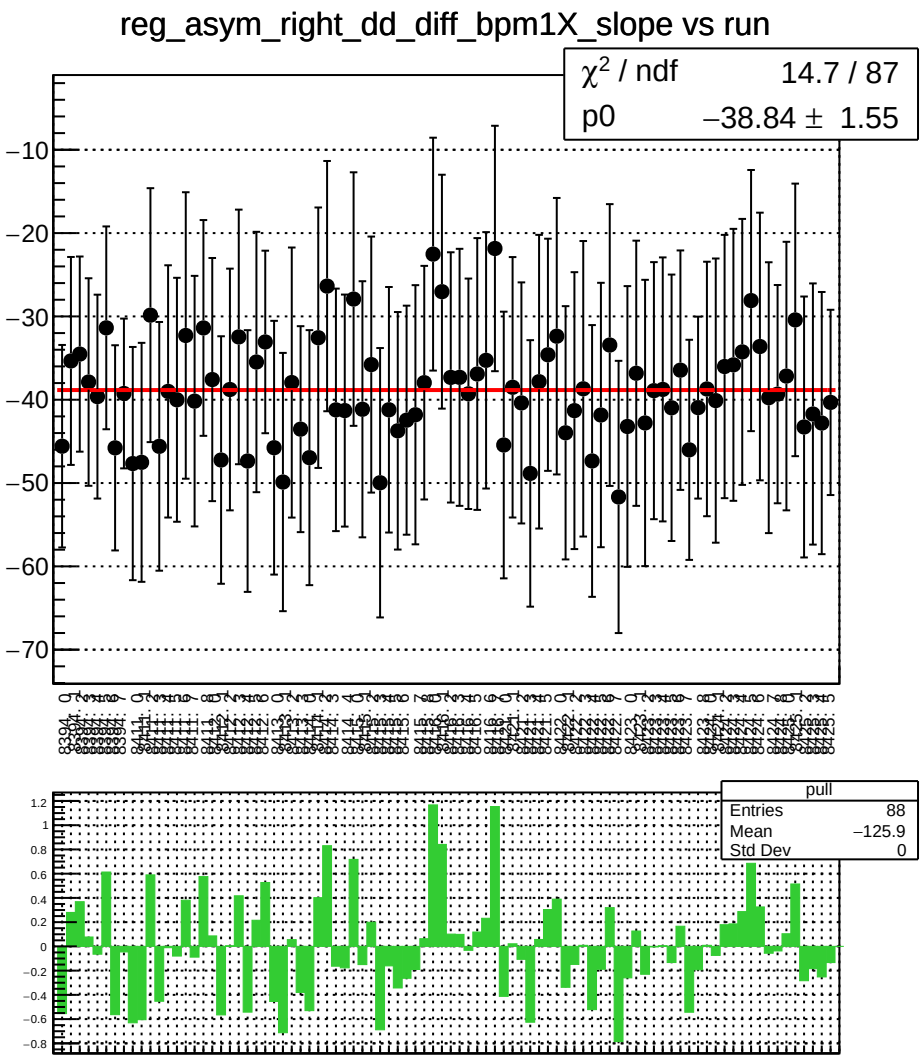

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.24 / 87
p0 8.176 ± 2.881
pull
Entries 88
Mean 150.6
Std Dev 0
pull1D
Entries 88
Mean −0.002485
Std Dev 0.3573

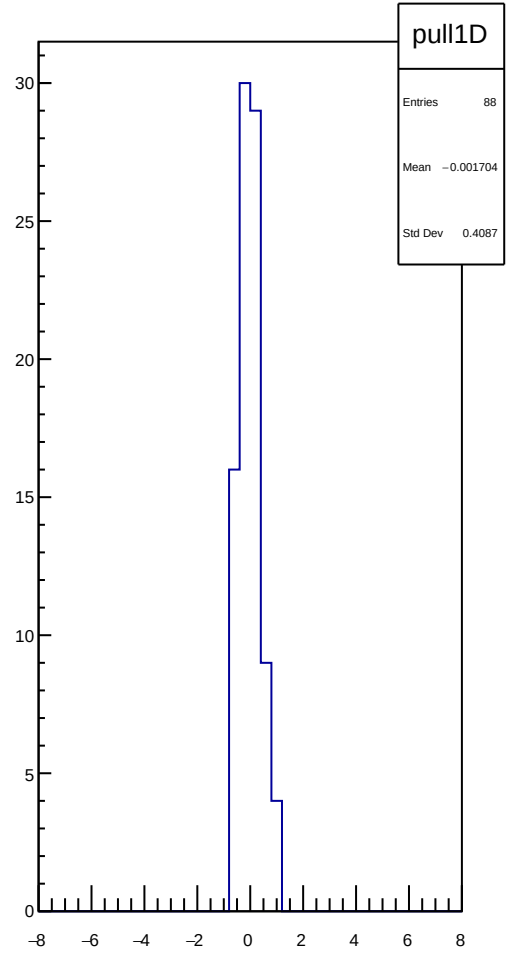

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.33 / 87
p0 63.06 ± 1.727
pull
Entries 88
Mean 104.8
Std Dev 0
pull1D
Entries 88
Mean 0.008235
Std Dev 0.3743

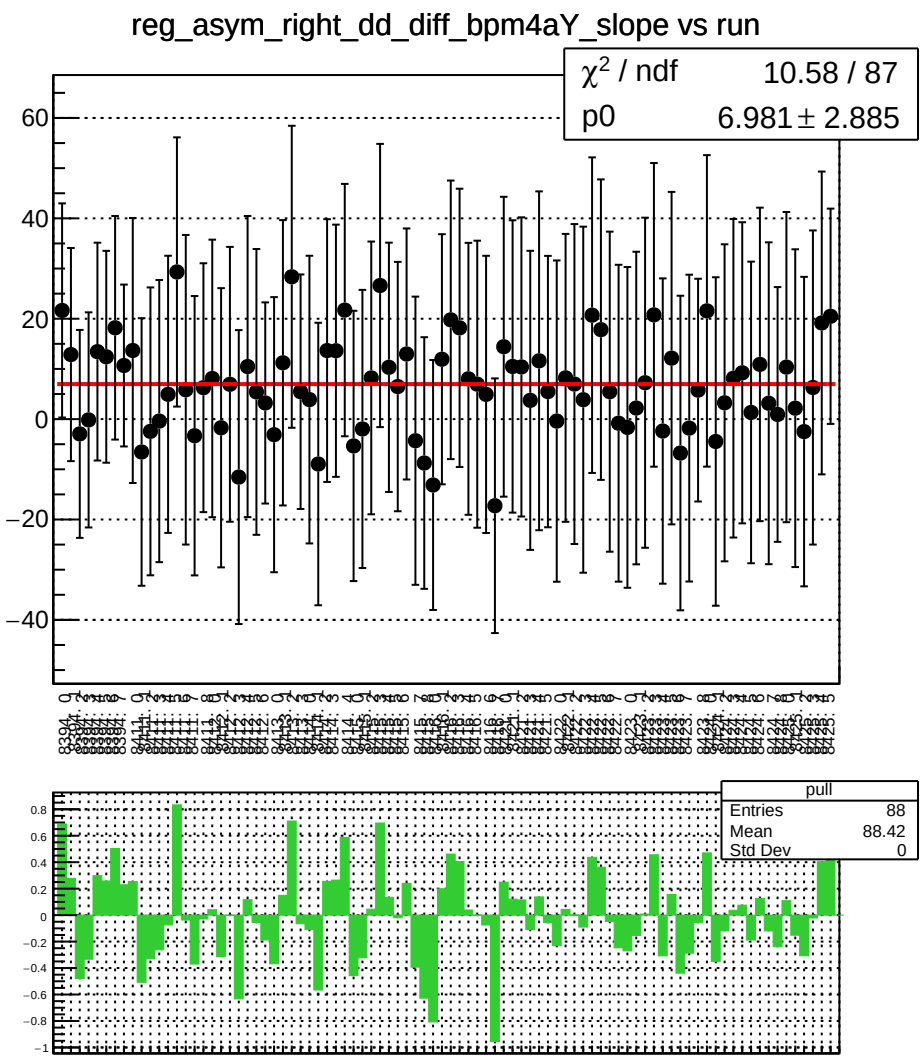

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.82 / 87
p0 0.233 ± 3.021
pull
Entries 88
Mean 215
Std Dev 0
pull1D
Entries 88
Mean 0.003173
Std Dev 0.3506

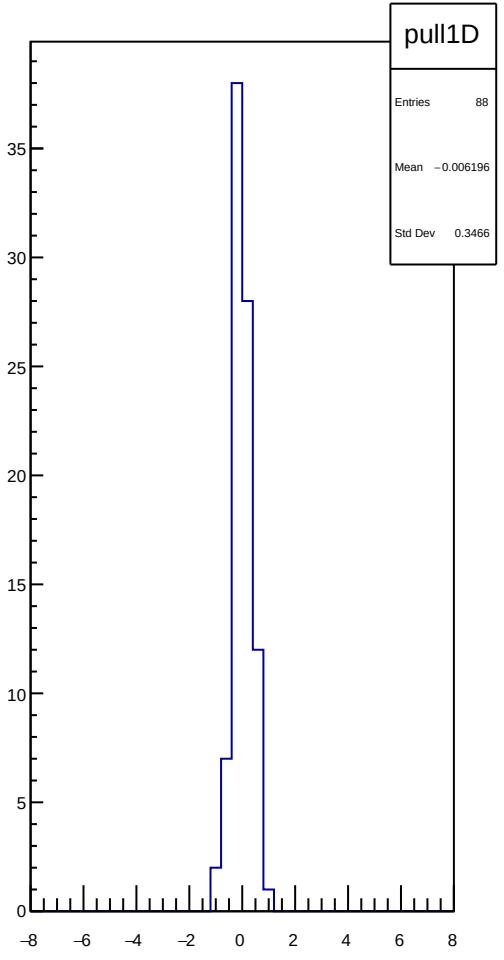

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 12.35 / 87
p0 −21.17 ± 0.1813
pull
Entries 88
Mean 258.7
Std Dev 0

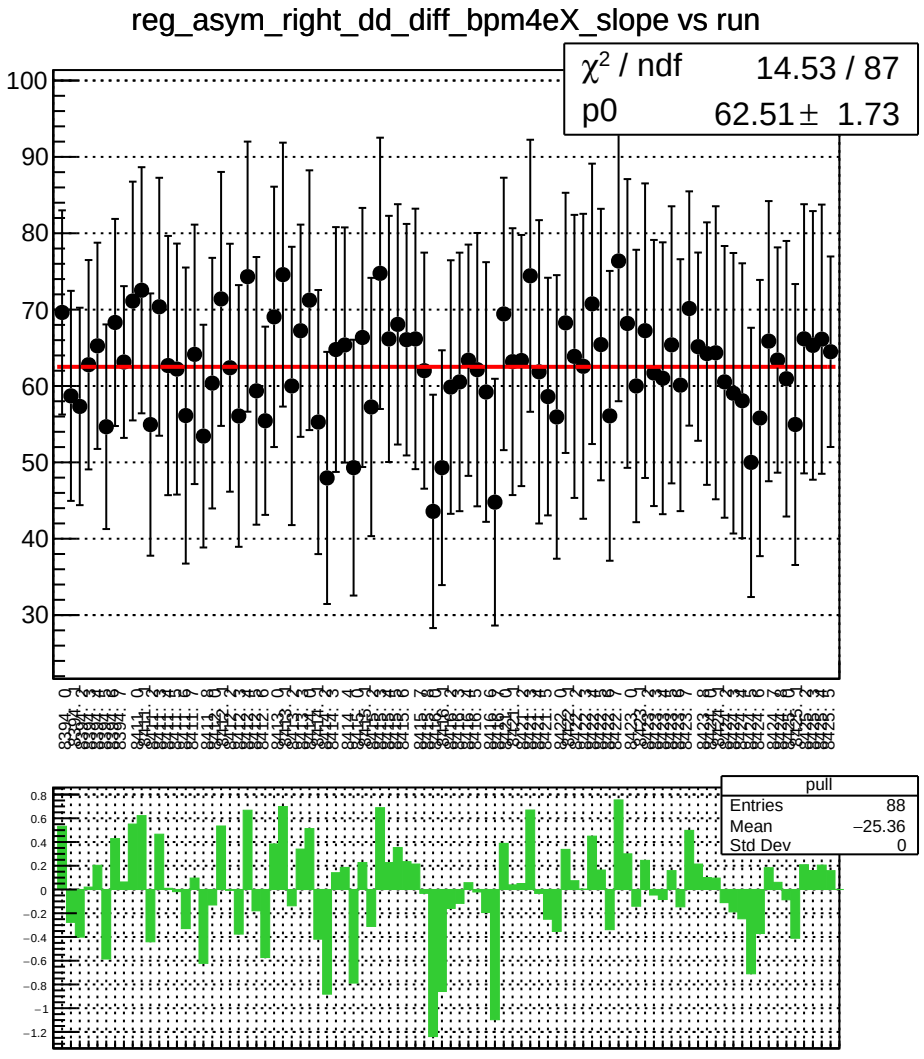

pull1D
Entries 88
Mean −0.01241
Std Dev 0.3745

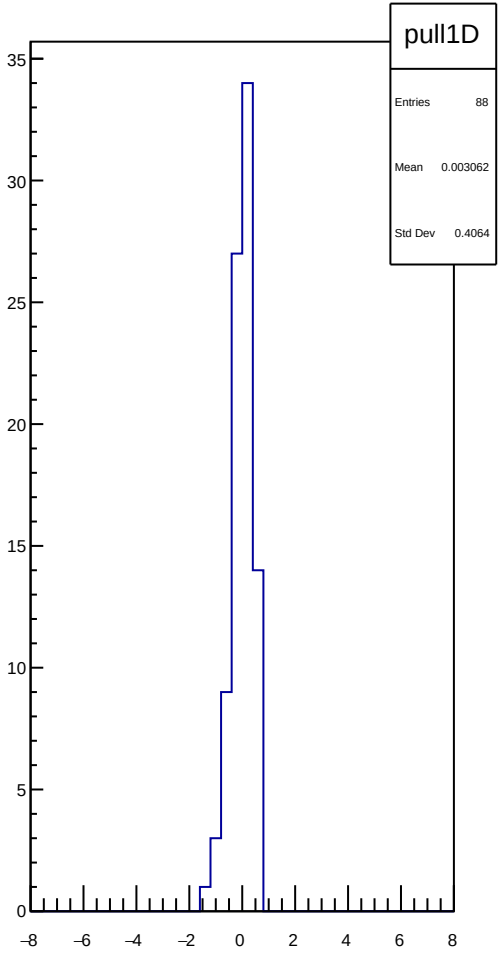

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 14.7 / 87
p0 −38.84 ± 1.55
pull
Entries 88
Mean −125.9
Std Dev 0

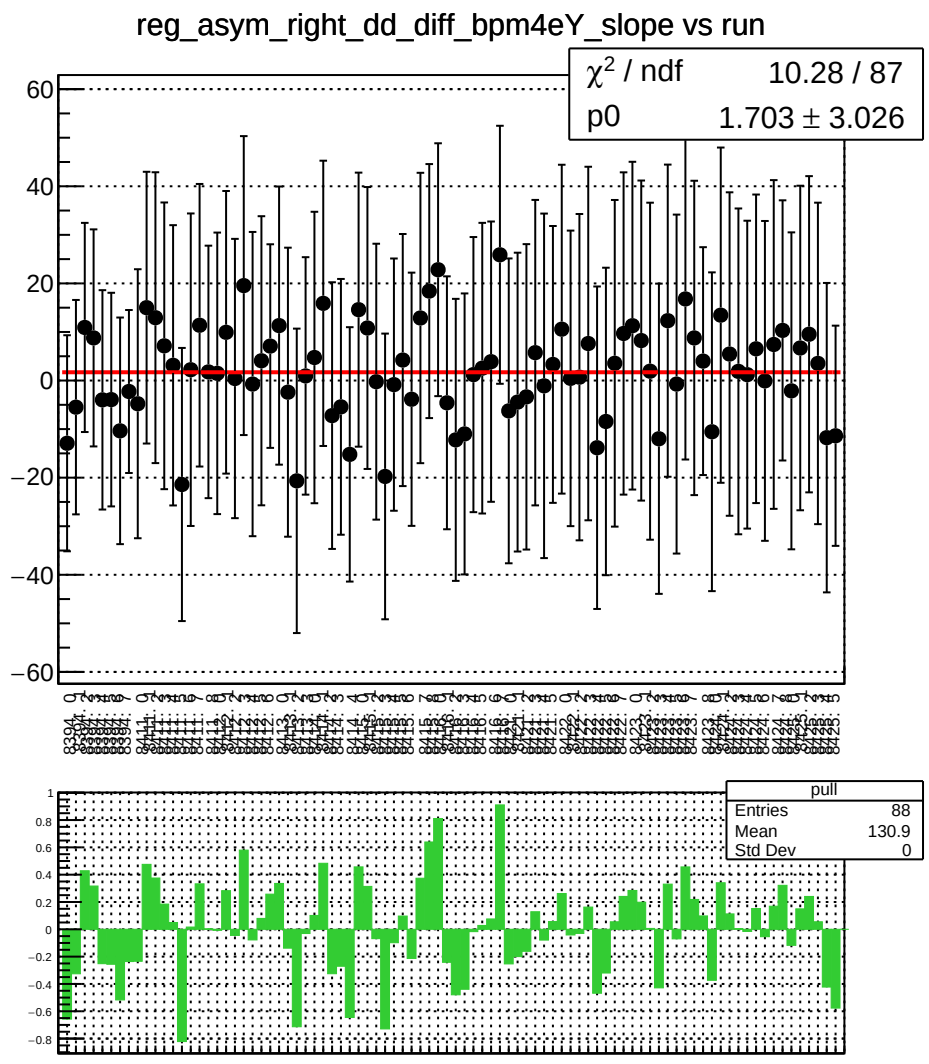

pull1D
Entries 88
Mean −0.001704
Std Dev 0.4087

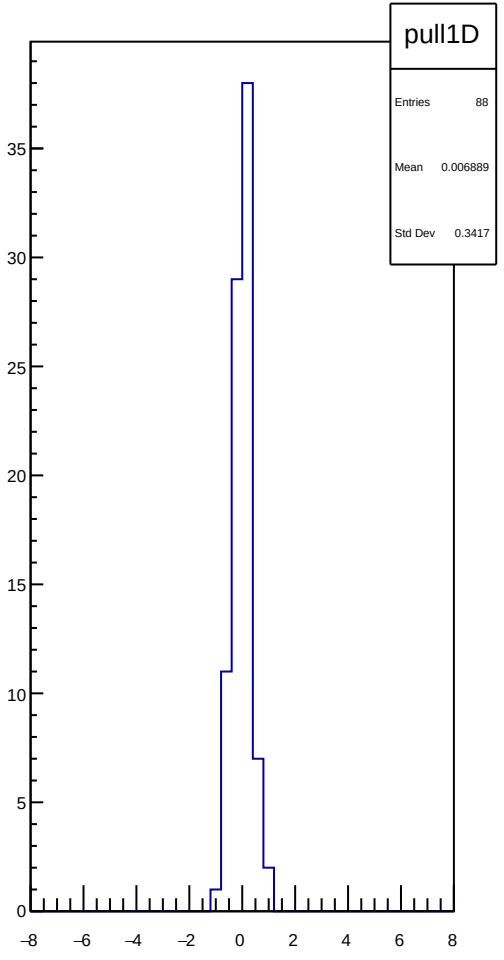

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.58 / 87
p0 6.981 ± 2.885
pull
Entries 88
Mean 88.42
Std Dev 0

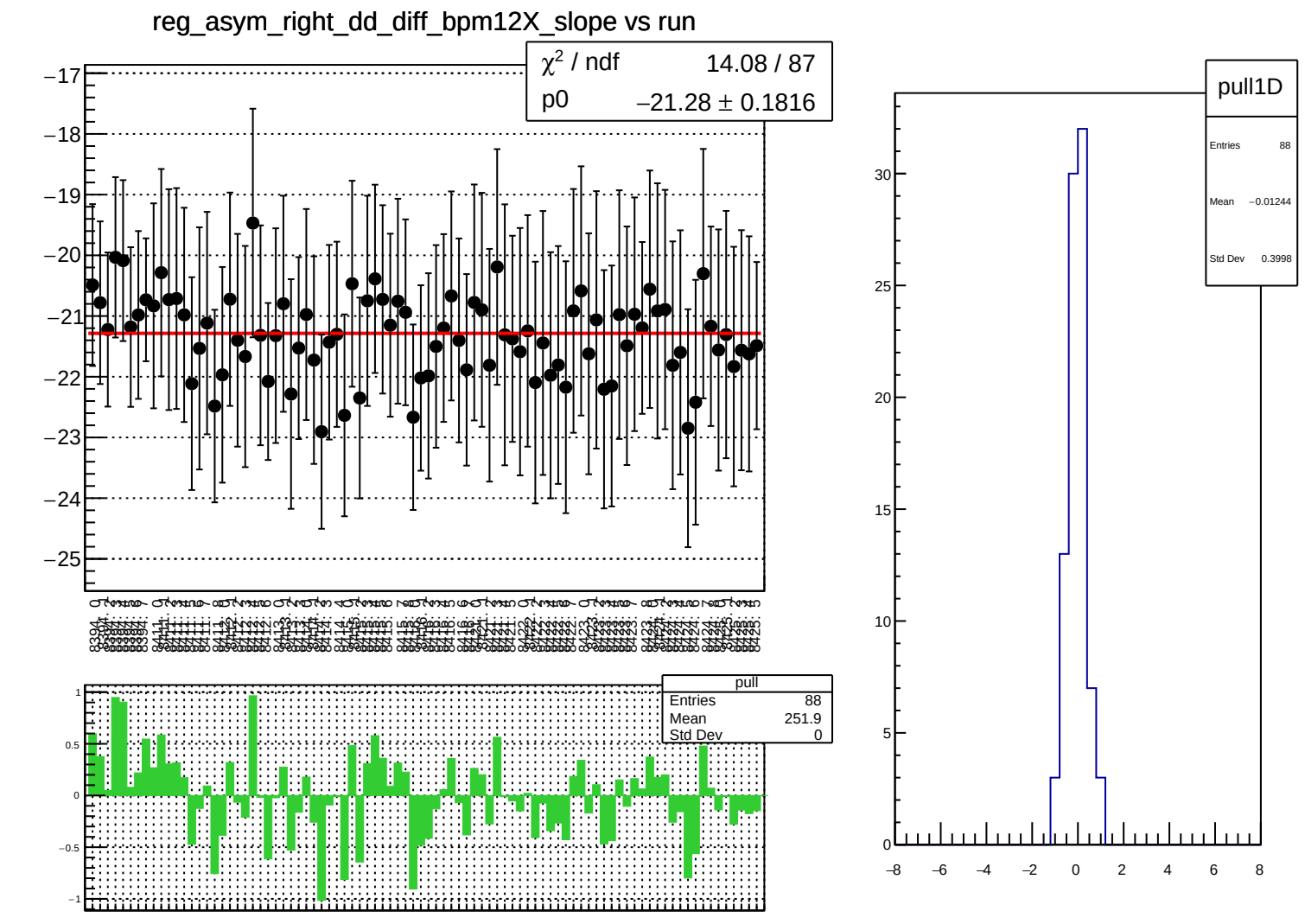

pull1D
Entries 88
Mean −0.006196
Std Dev 0.3466

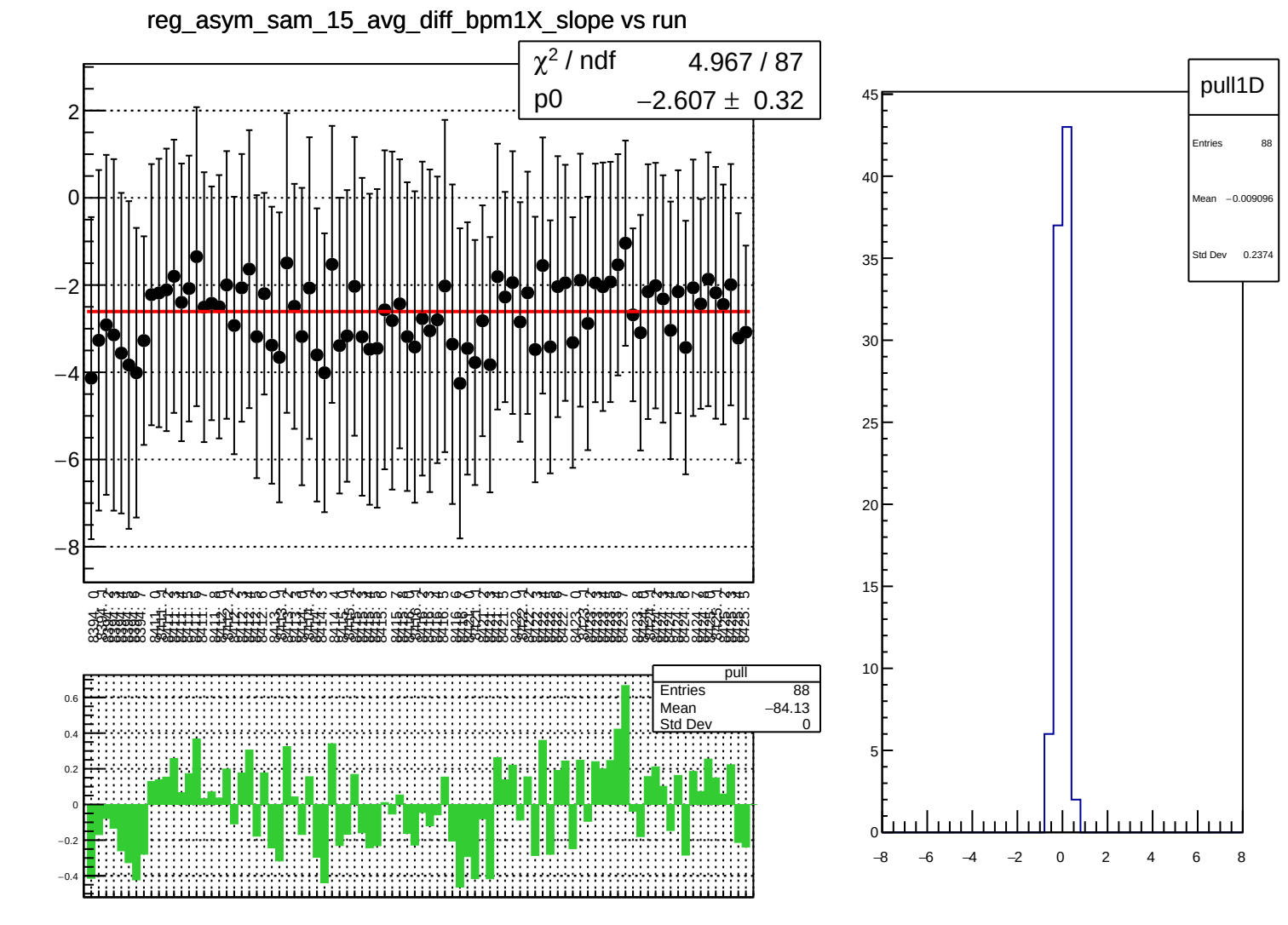

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.53 / 87
p0 62.51 ± 1.73
pull
Entries 88
Mean −25.36
Std Dev 0

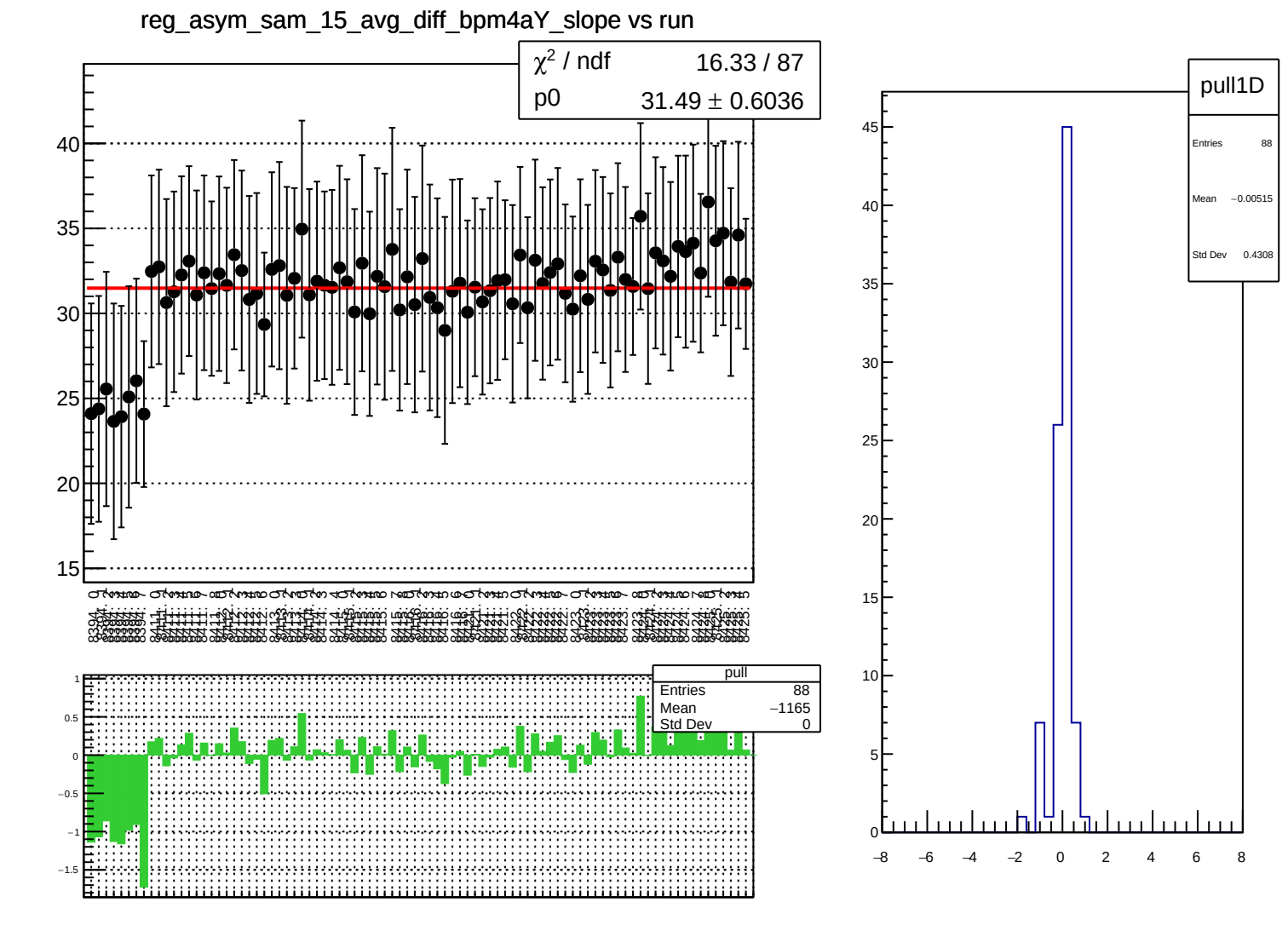

pull1D
Entries 88
Mean 0.003062
Std Dev 0.4064

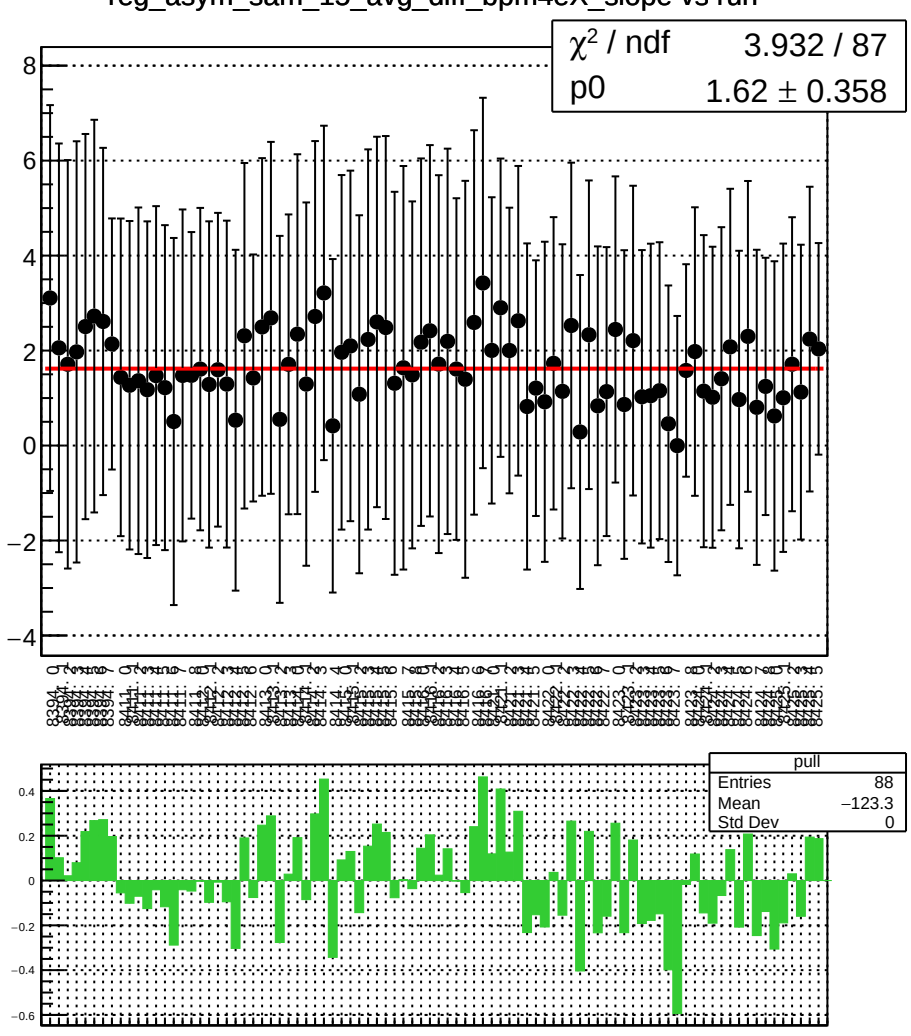

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.28 / 87
p0 1.703 ± 3.026
pull
Entries 88
Mean 130.9
Std Dev 0

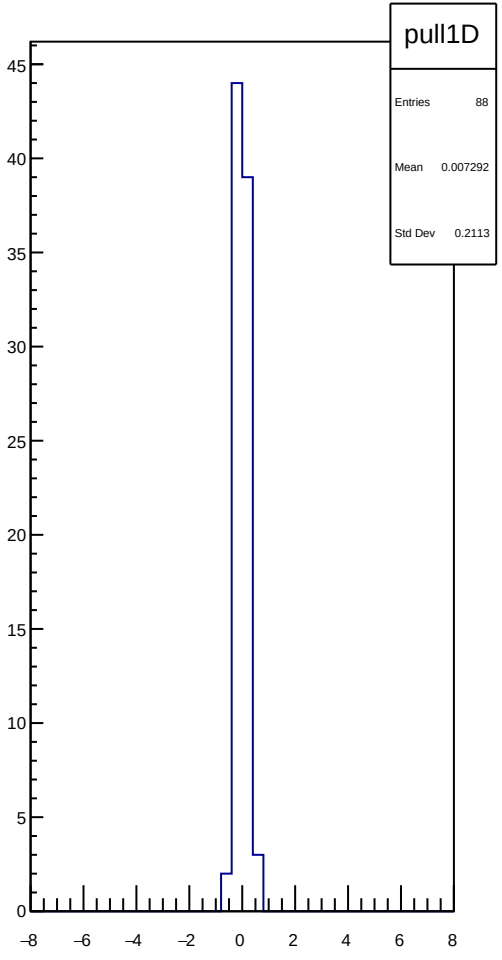

pull1D
Entries 88
Mean 0.006889
Std Dev 0.3417

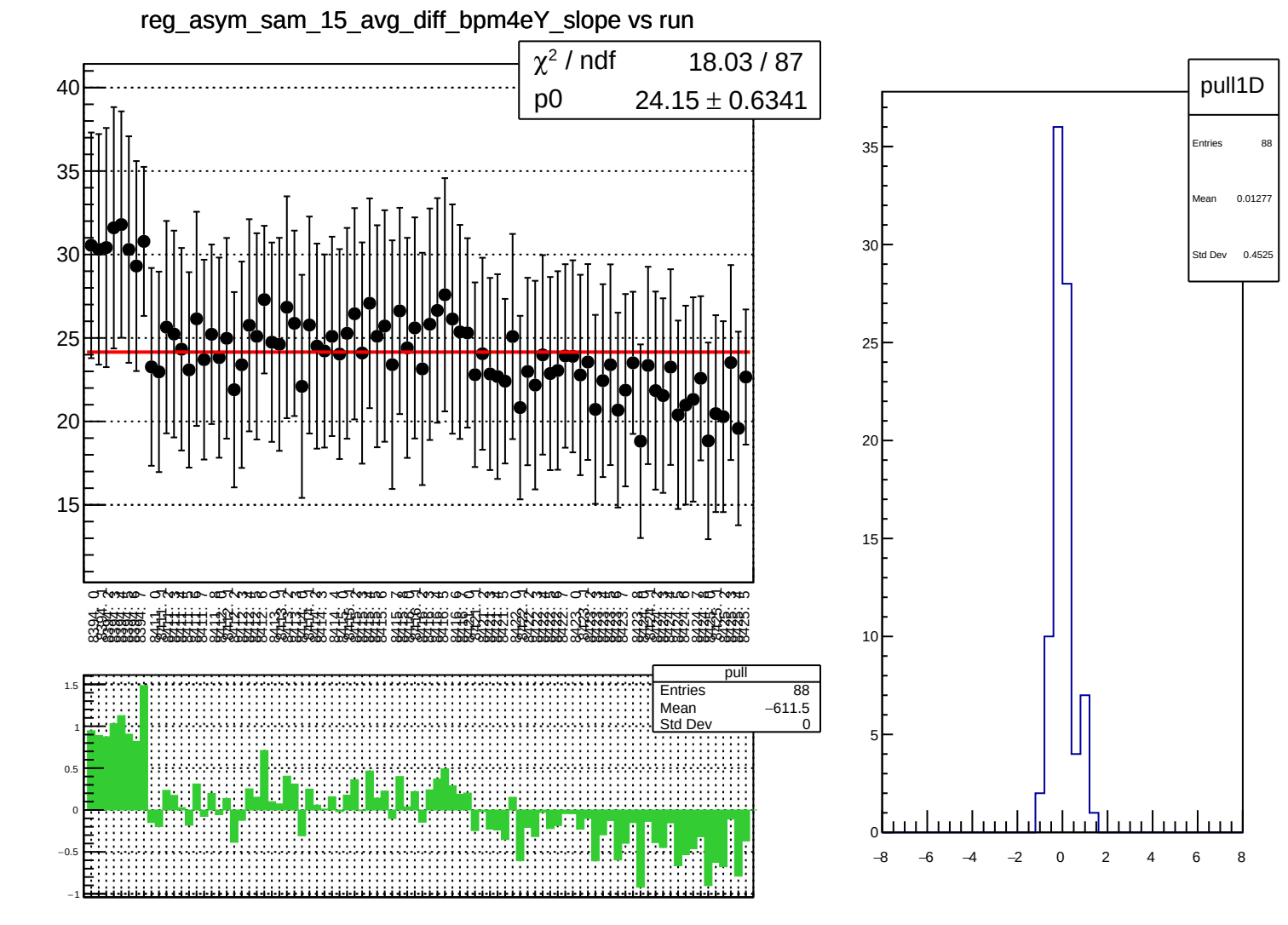

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 14.08 / 87
p0 −21.28 ± 0.1816
pull
Entries 88
Mean 251.9
Std Dev 0
pull1D
Entries 88
Mean −0.01244
Std Dev 0.3998

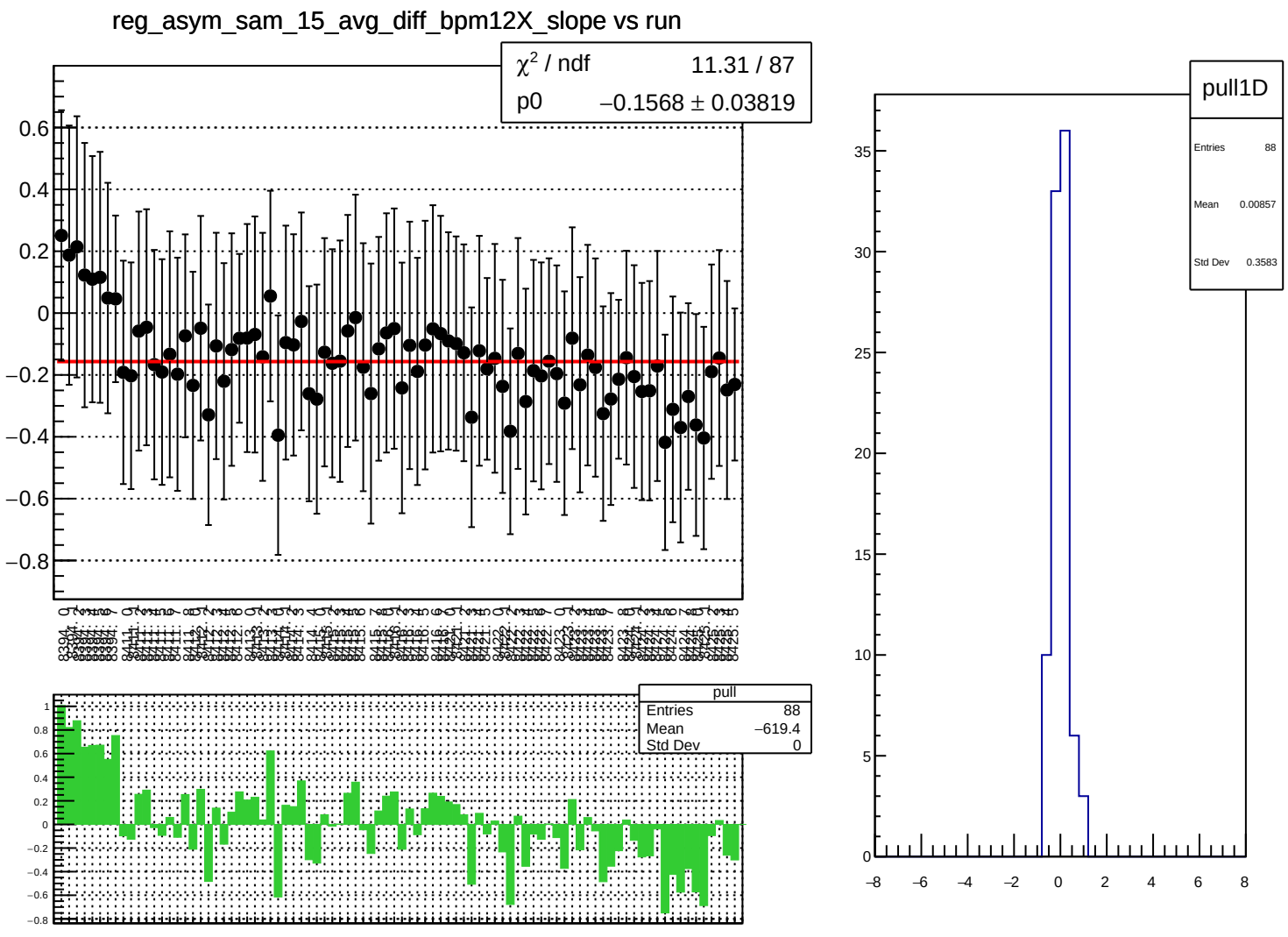

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 4.967 / 87
p0 −2.607 ± 0.32
pull
Entries 88
Mean −84.13
Std Dev 0
pull1D
Entries 88
Mean −0.009096
Std Dev 0.2374

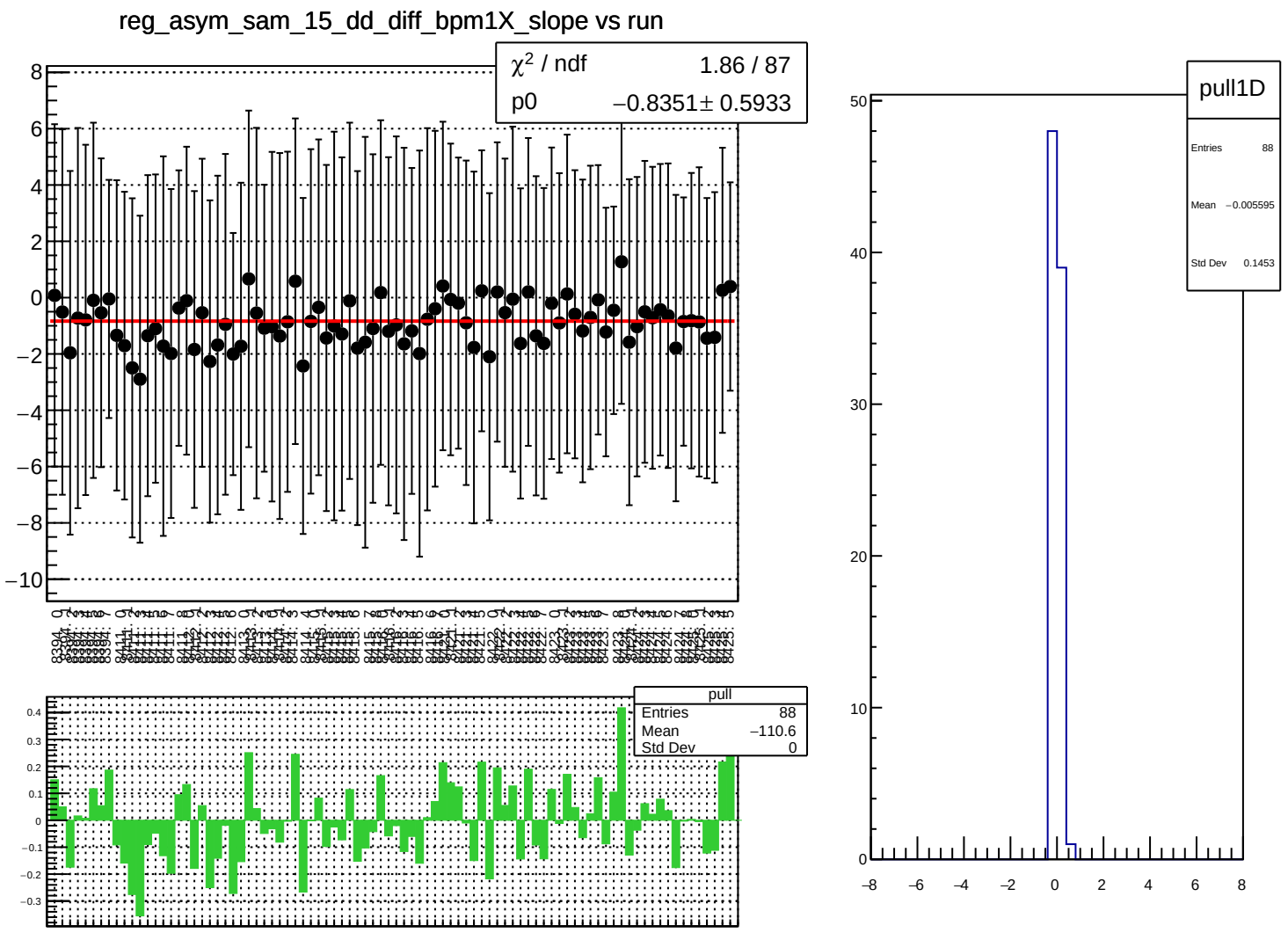

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.33 / 87
p0 31.49 ± 0.6036
pull
Entries 88
Mean −1165
Std Dev 0
pull1D
Entries 88
Mean −0.00515
Std Dev 0.4308

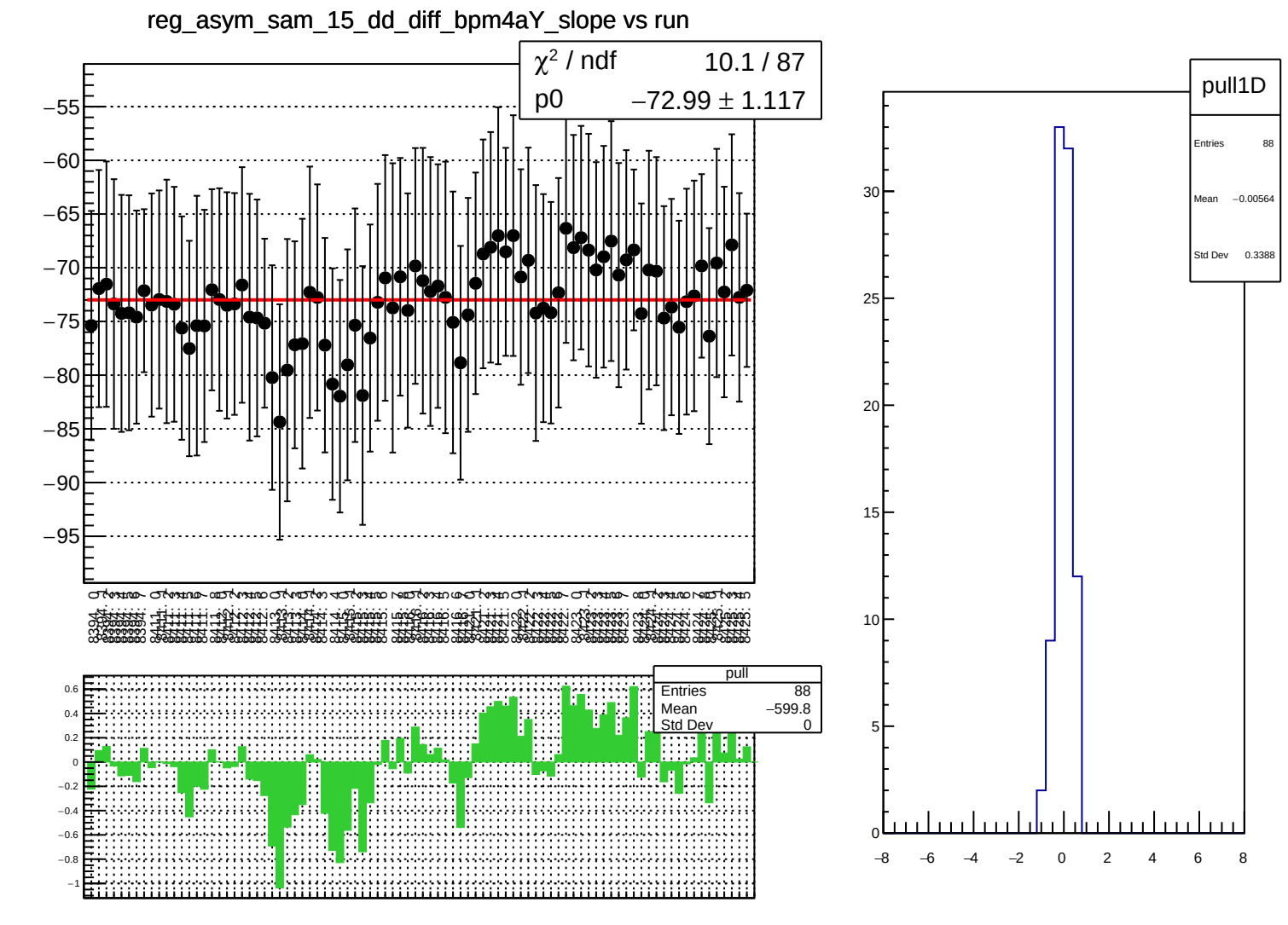

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.932 / 87
p0 1.62 ± 0.358
pull
Entries 88
Mean −123.3
Std Dev 0

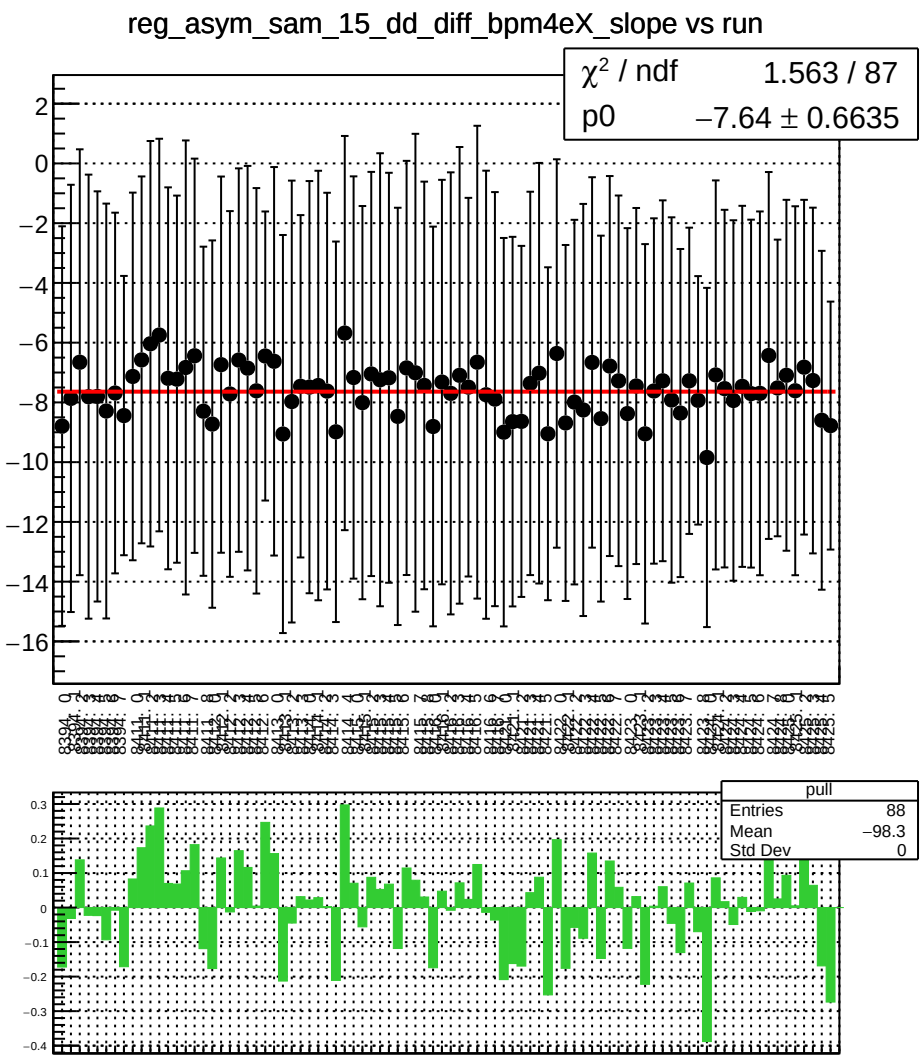

pull1D
Entries 88
Mean 0.007292
Std Dev 0.2113

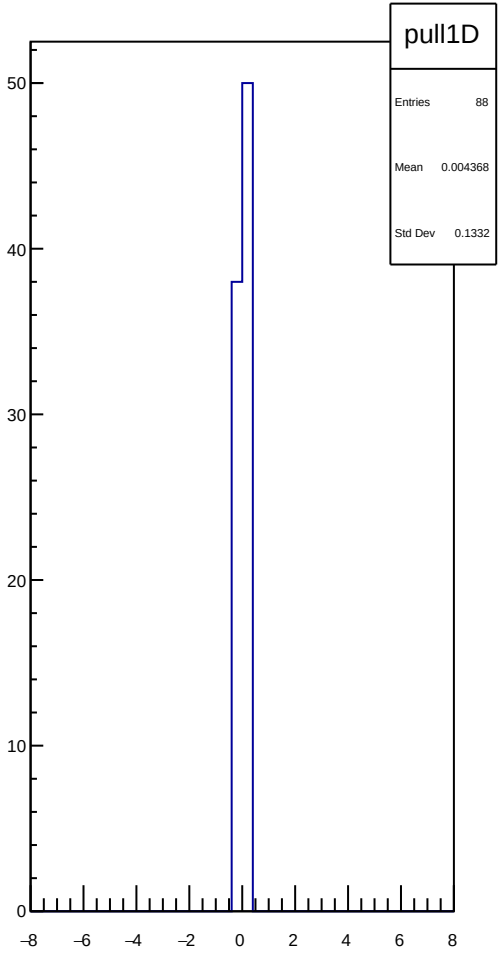

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 18.03 / 87
p0 24.15 ± 0.6341
pull
Entries 88
Mean −611.5
Std Dev 0
pull1D
Entries 88
Mean 0.01277
Std Dev 0.4525

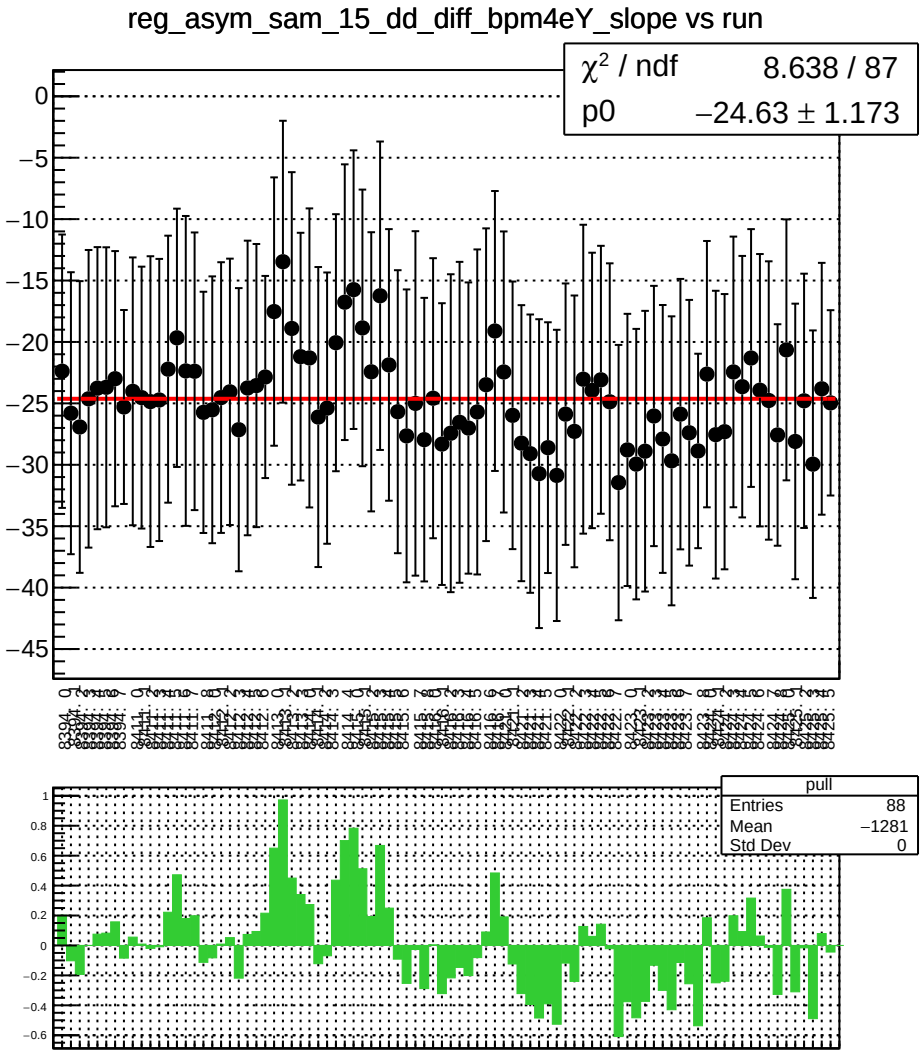

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 11.31 / 87
p0 −0.1568 ± 0.03819
pull
Entries 88
Mean −619.4
Std Dev 0
pull1D
Entries 88
Mean 0.00857
Std Dev 0.3583

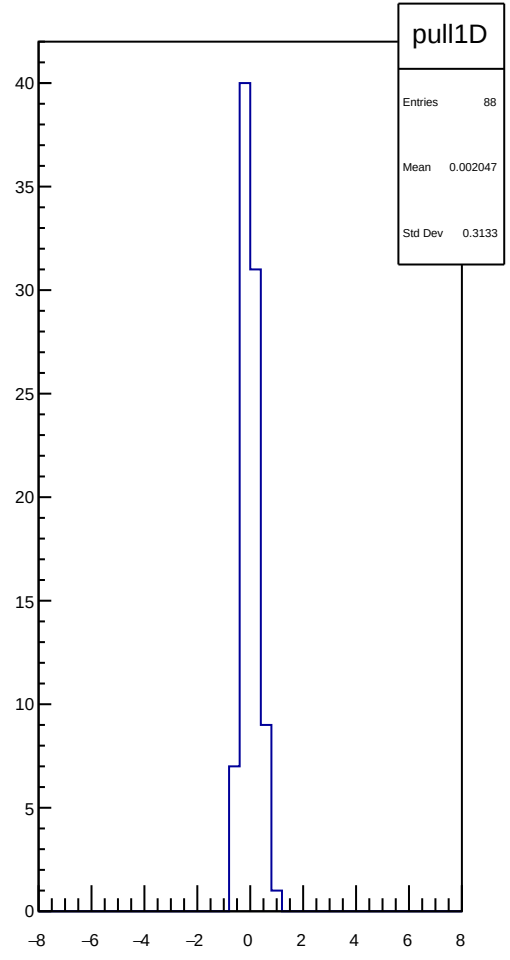

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 1.86 / 87
p0 −0.8351± 0.5933
pull
Entries 88
Mean −110.6
Std Dev 0
pull1D
Entries 88
Mean −0.005595
Std Dev 0.1453

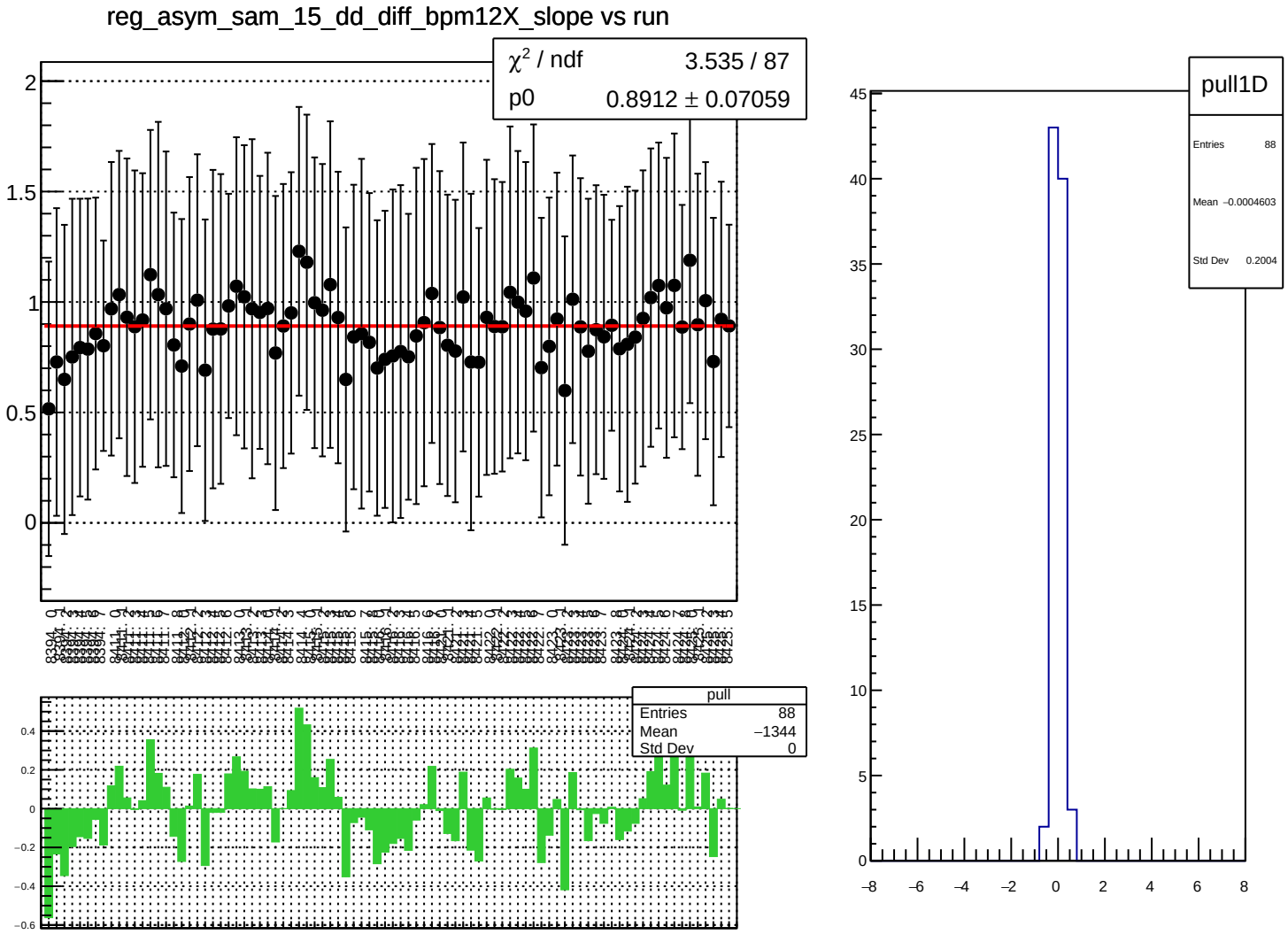

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.1 / 87
p0 −72.99 ± 1.117
pull
Entries 88
Mean −599.8
Std Dev 0
pull1D
Entries 88
Mean −0.00564
Std Dev 0.3388

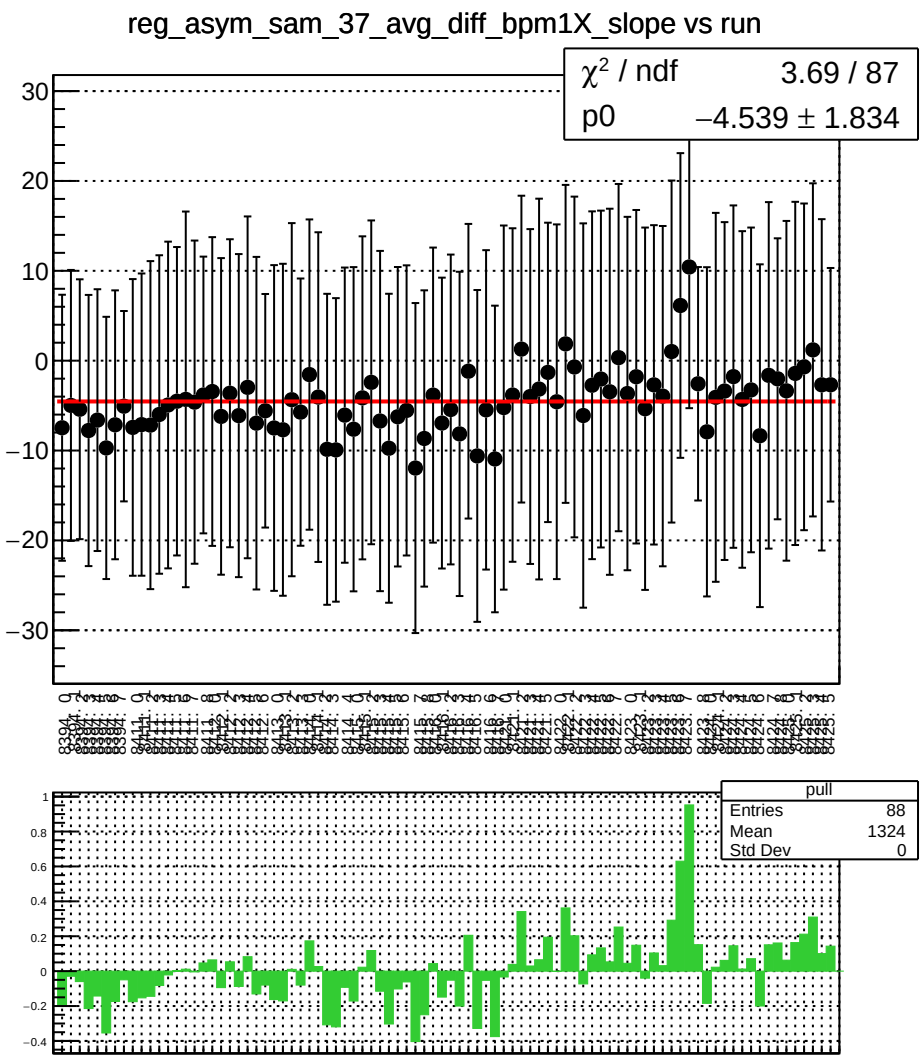

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.563 / 87
p0 −7.64 ± 0.6635
pull
Entries 88
Mean −98.3
Std Dev 0

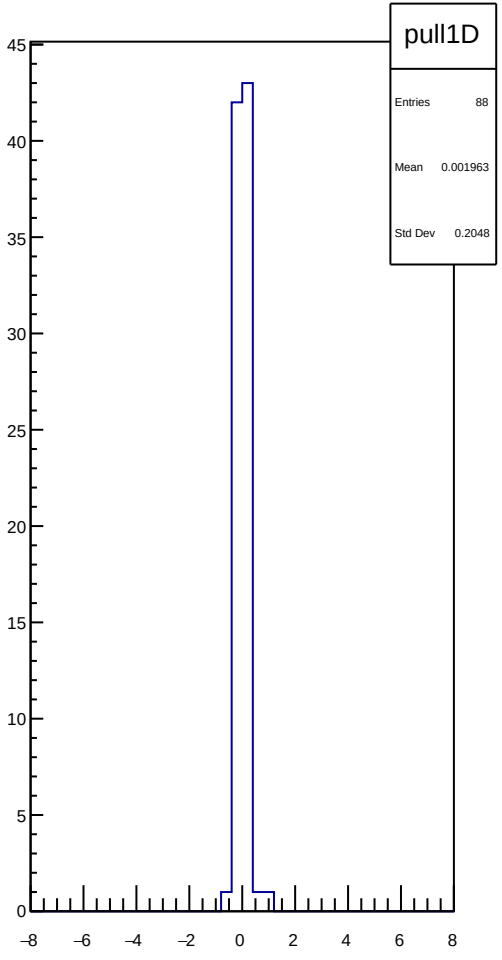

pull1D
Entries 88
Mean 0.004368
Std Dev 0.1332

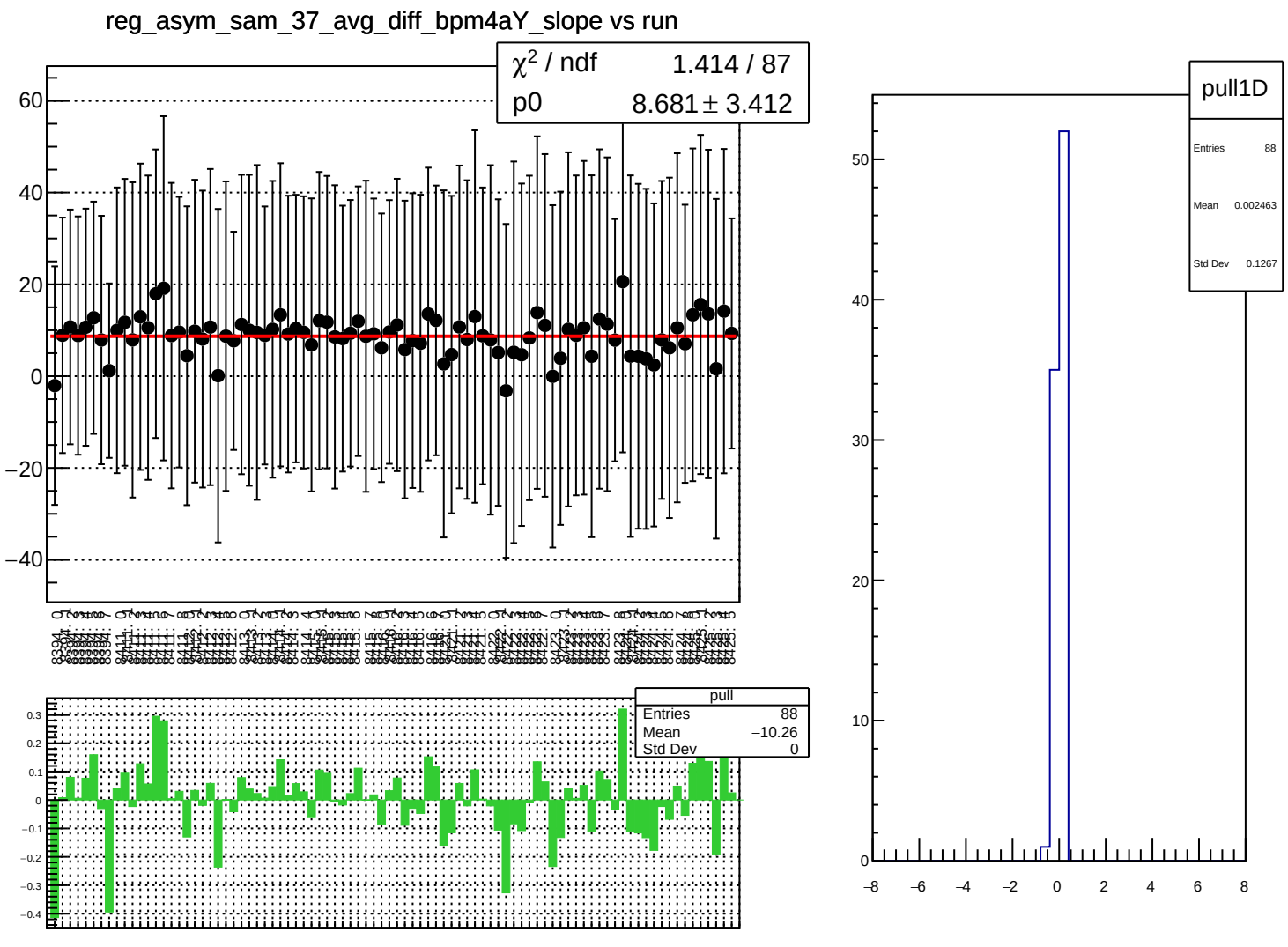

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.638 / 87
p0 −24.63 ± 1.173
pull
Entries 88
Mean −1281
Std Dev 0

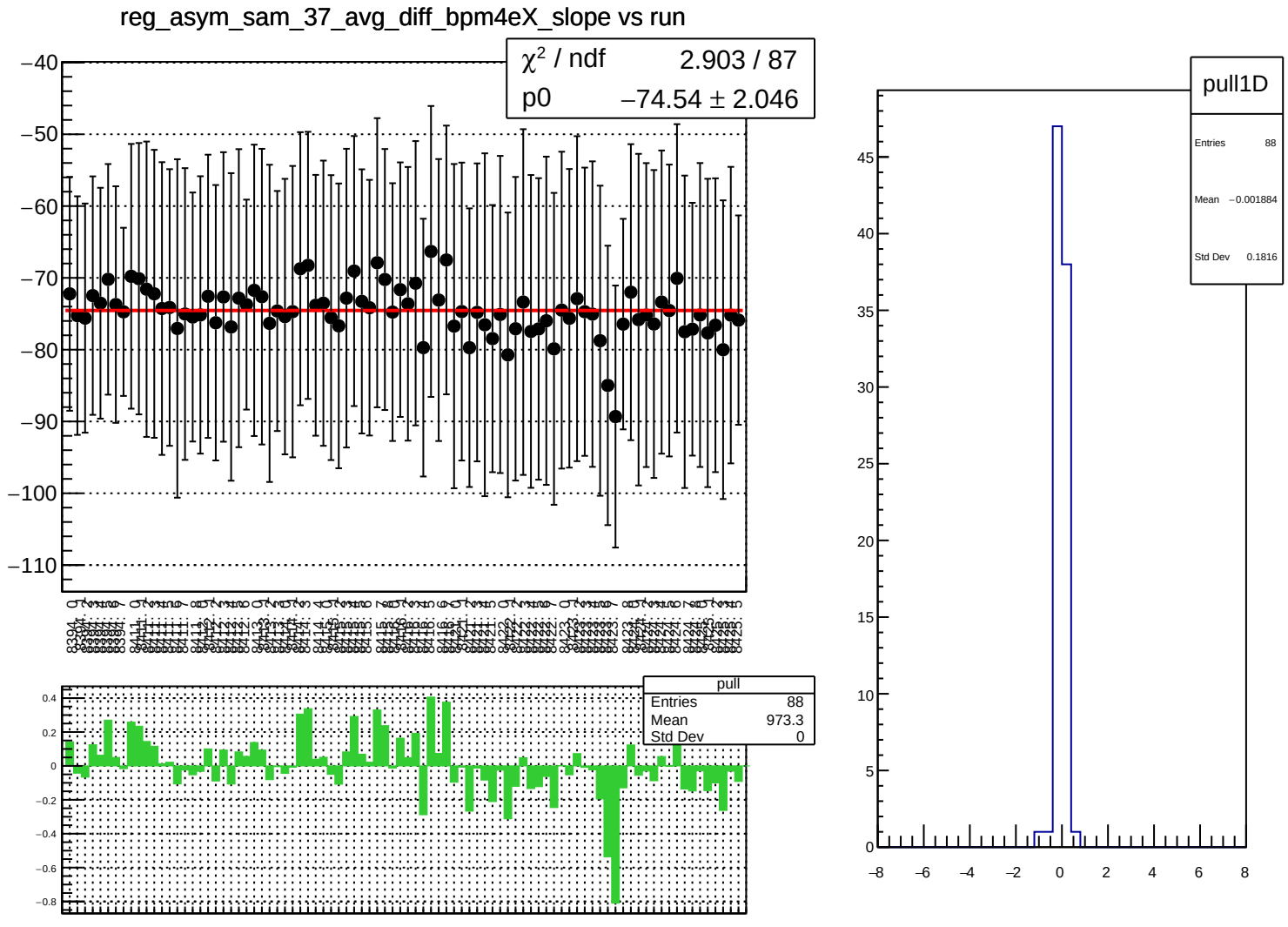

pull1D
Entries 88
Mean 0.002047
Std Dev 0.3133

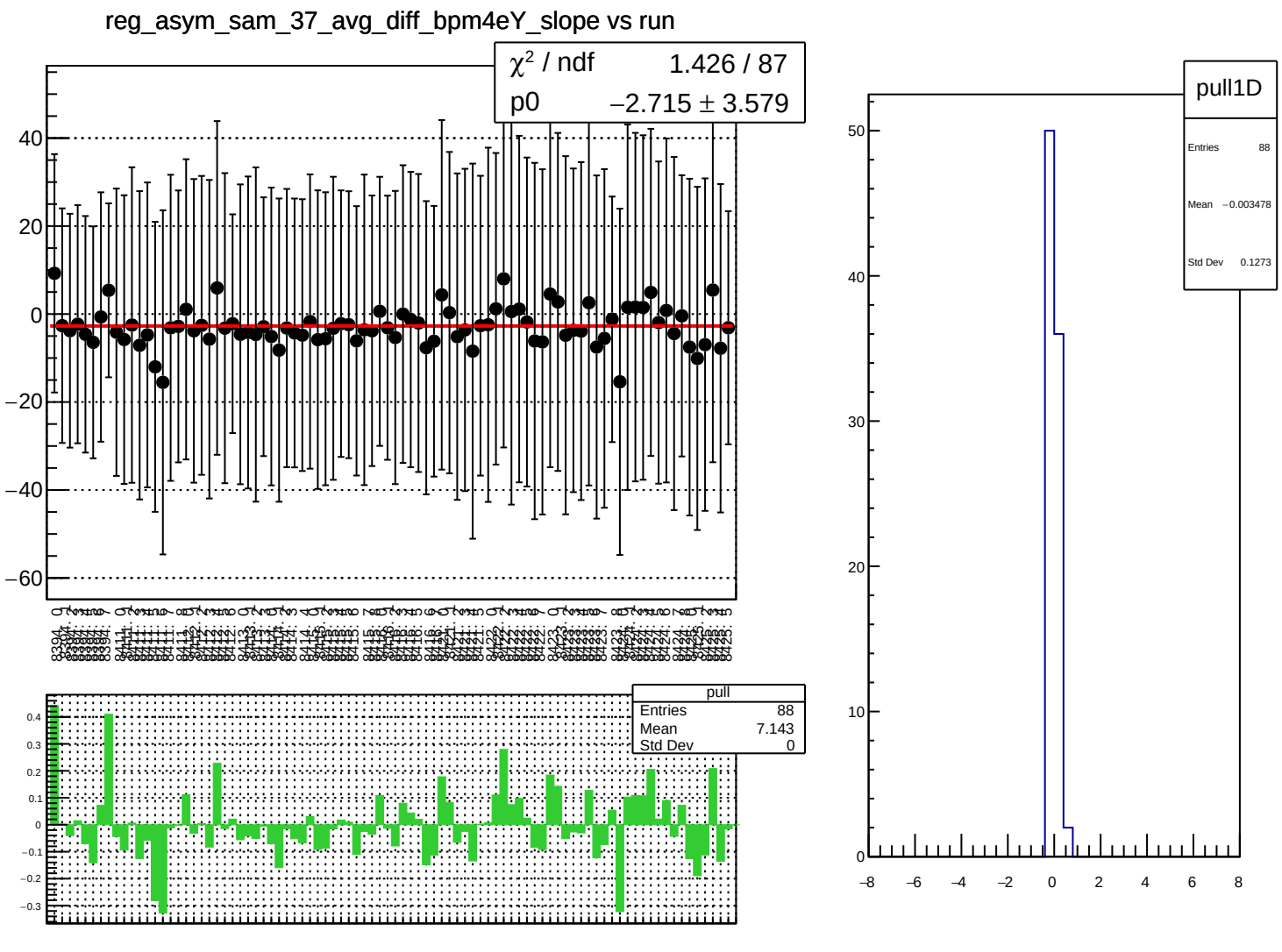

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 3.535 / 87
p0 0.8912 ± 0.07059
pull
Entries 88
Mean −1344
Std Dev 0
pull1D
Entries 88
Mean −0.0004603
Std Dev 0.2004

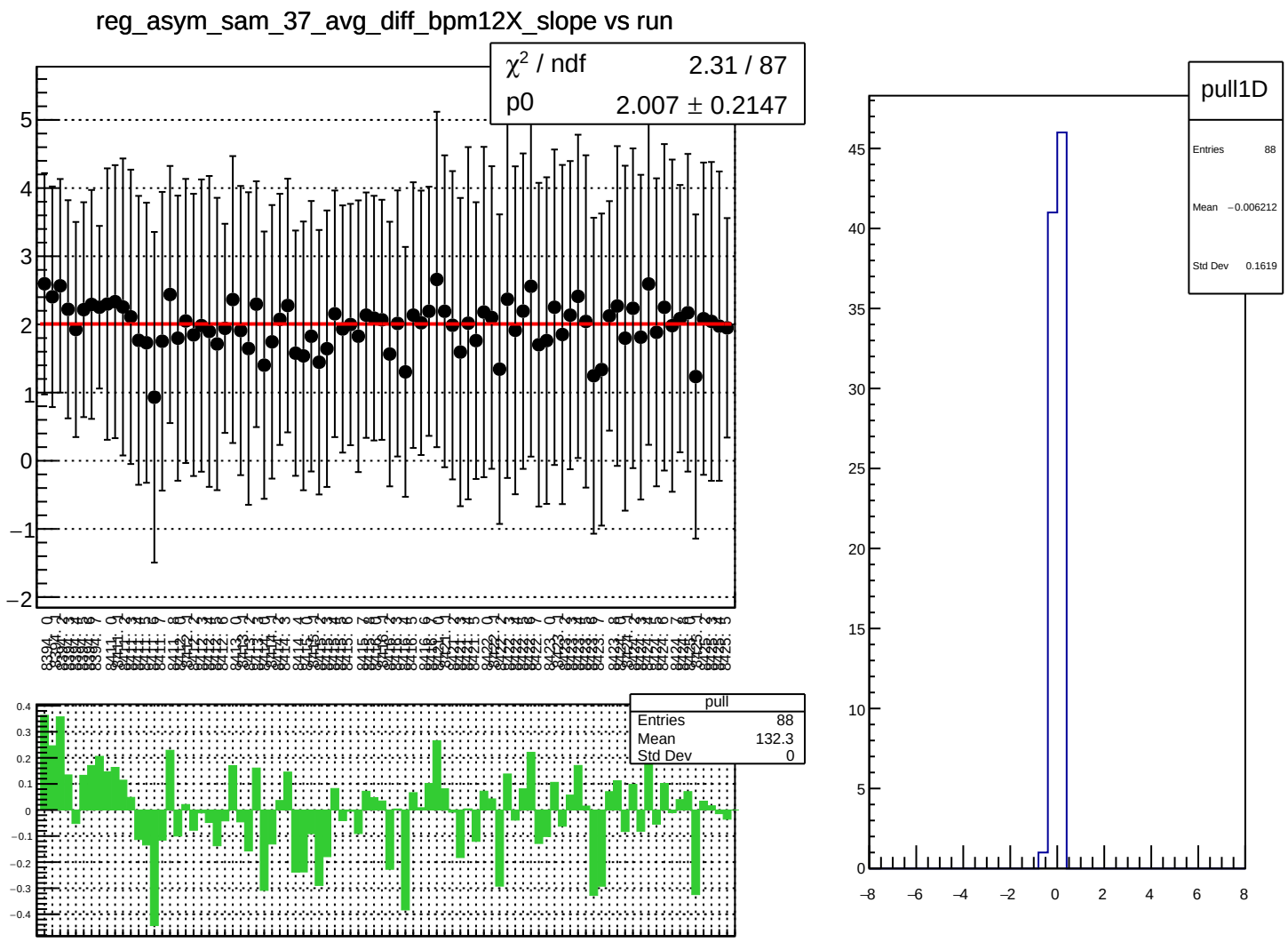

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 3.69 / 87
p0 −4.539 ± 1.834
pull
Entries 88
Mean 1324
Std Dev 0

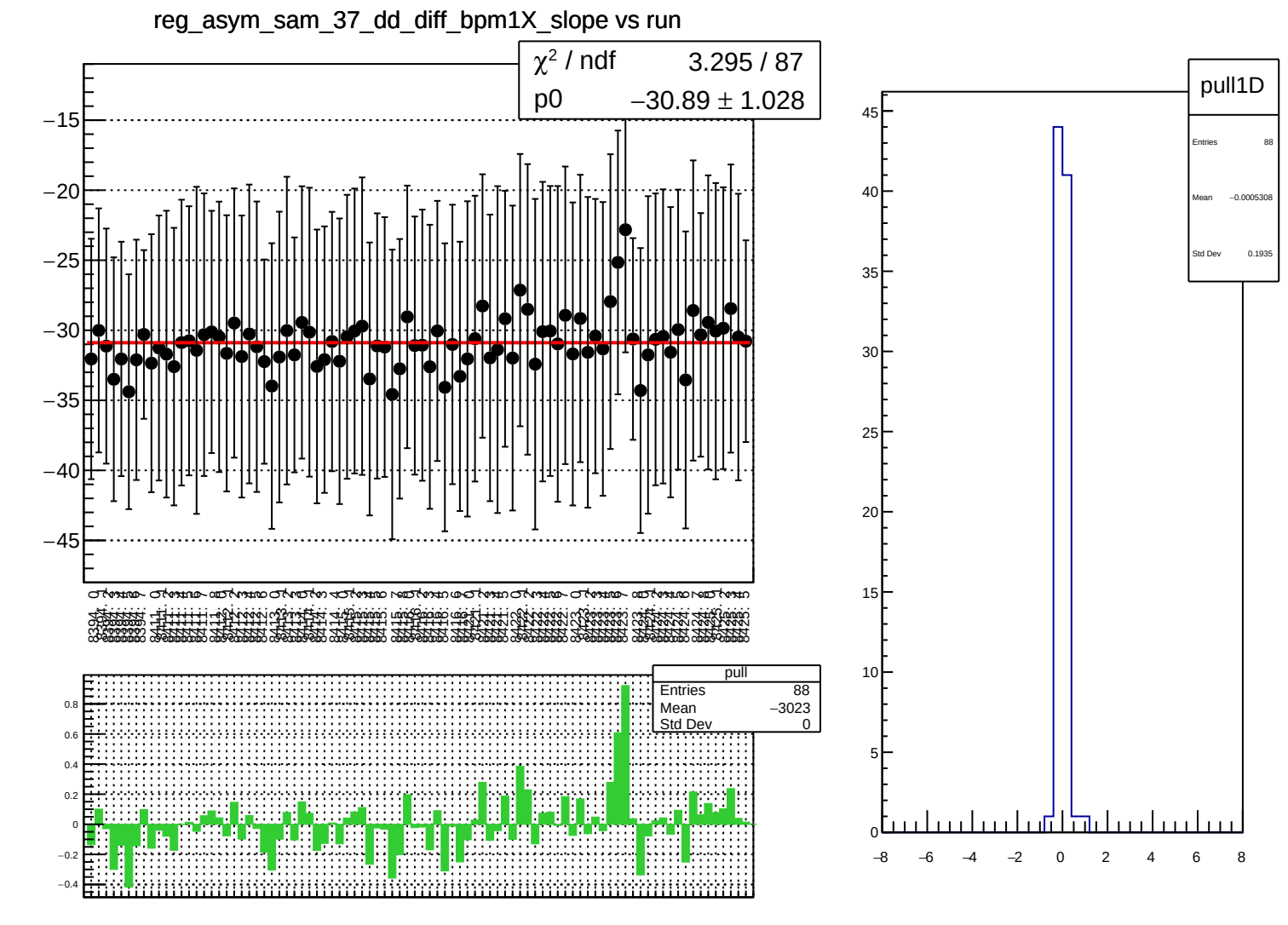

pull1D
Entries 88
Mean 0.001963
Std Dev 0.2048

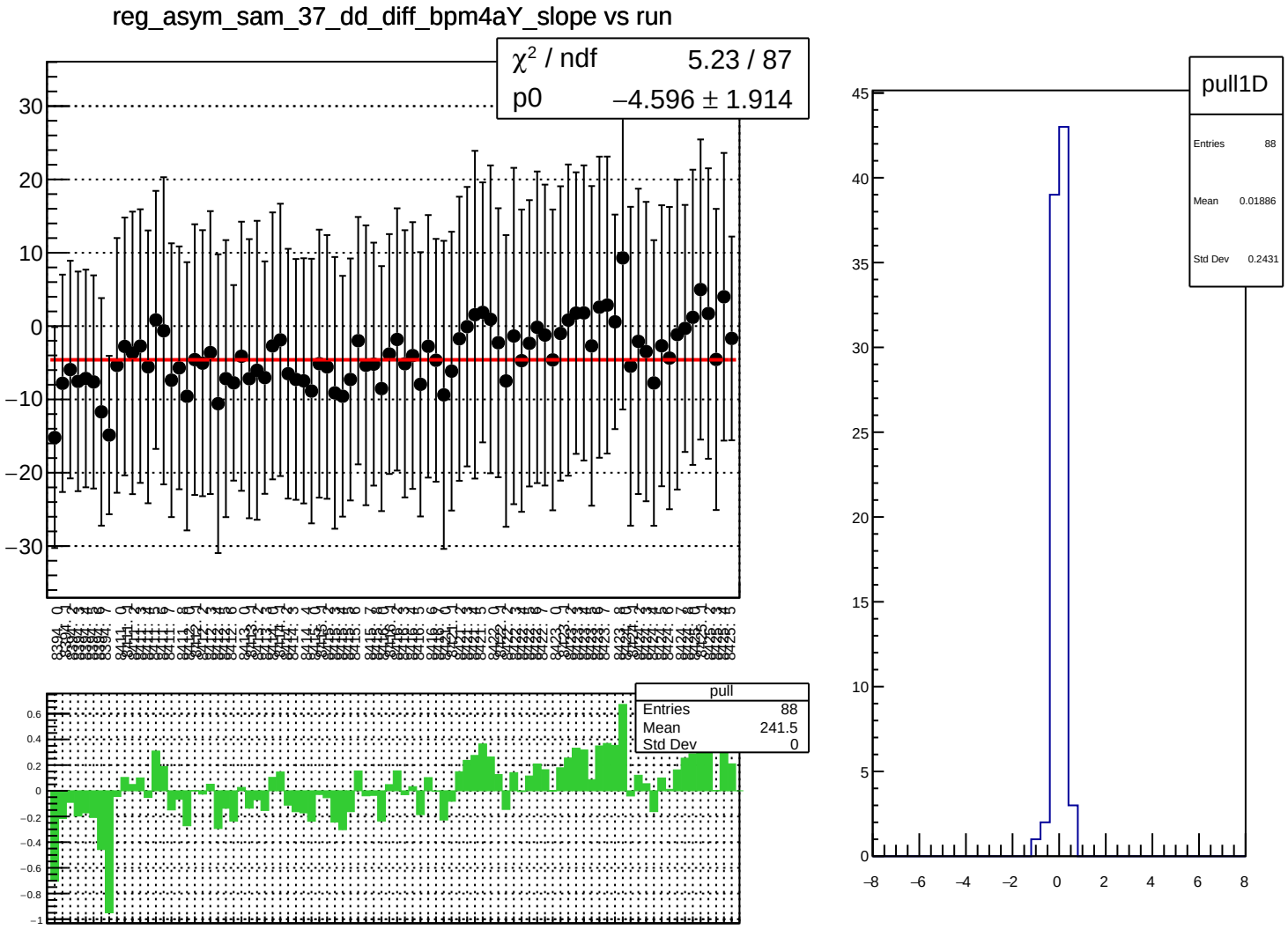

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.414 / 87
p0 8.681 ± 3.412
pull
Entries 88
Mean −10.26
Std Dev 0
pull1D
Entries 88
Mean 0.002463
Std Dev 0.1267

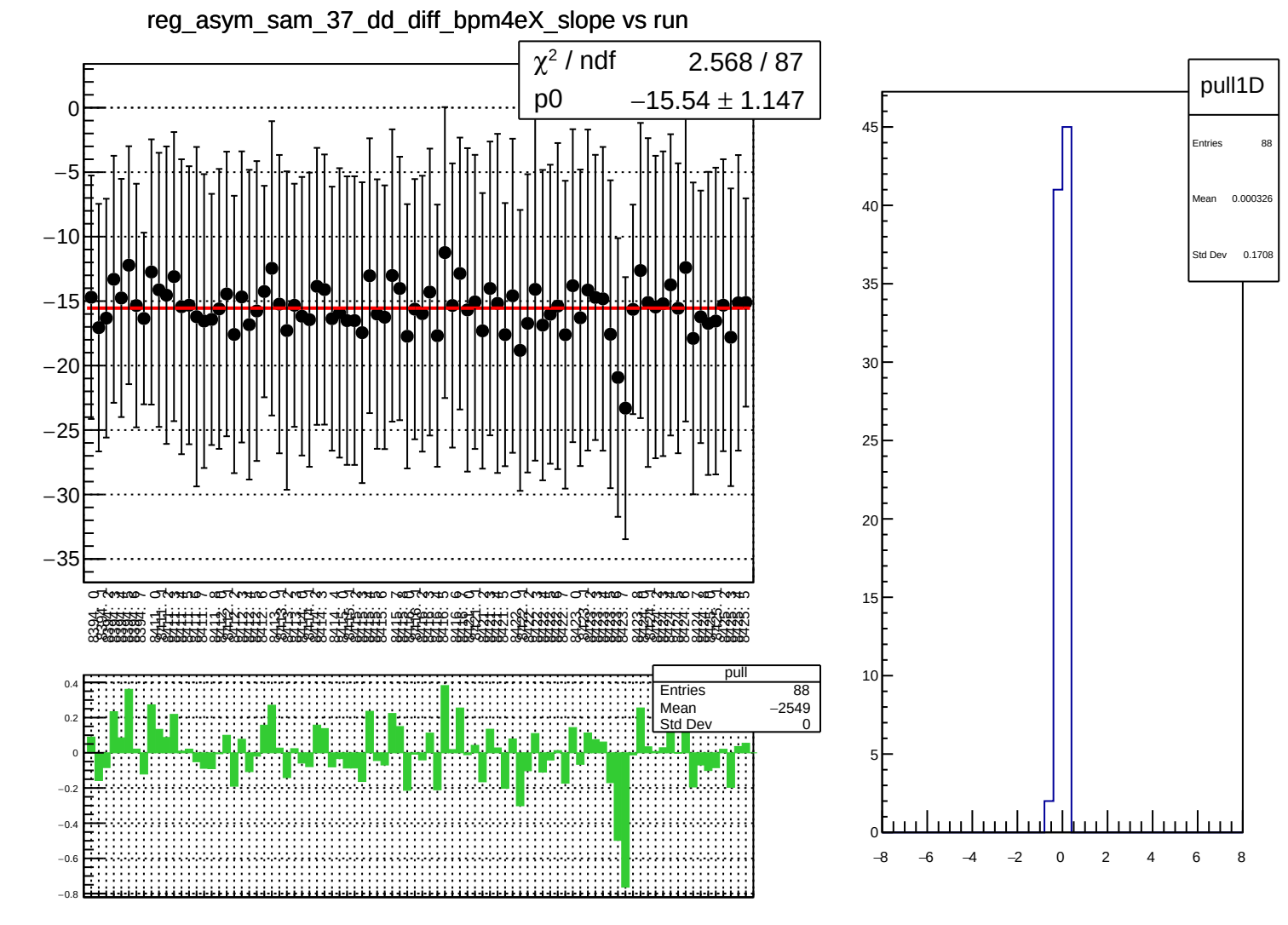

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.903 / 87
p0 −74.54 ± 2.046
pull
Entries 88
Mean 973.3
Std Dev 0
pull1D
Entries 88
Mean −0.001884
Std Dev 0.1816

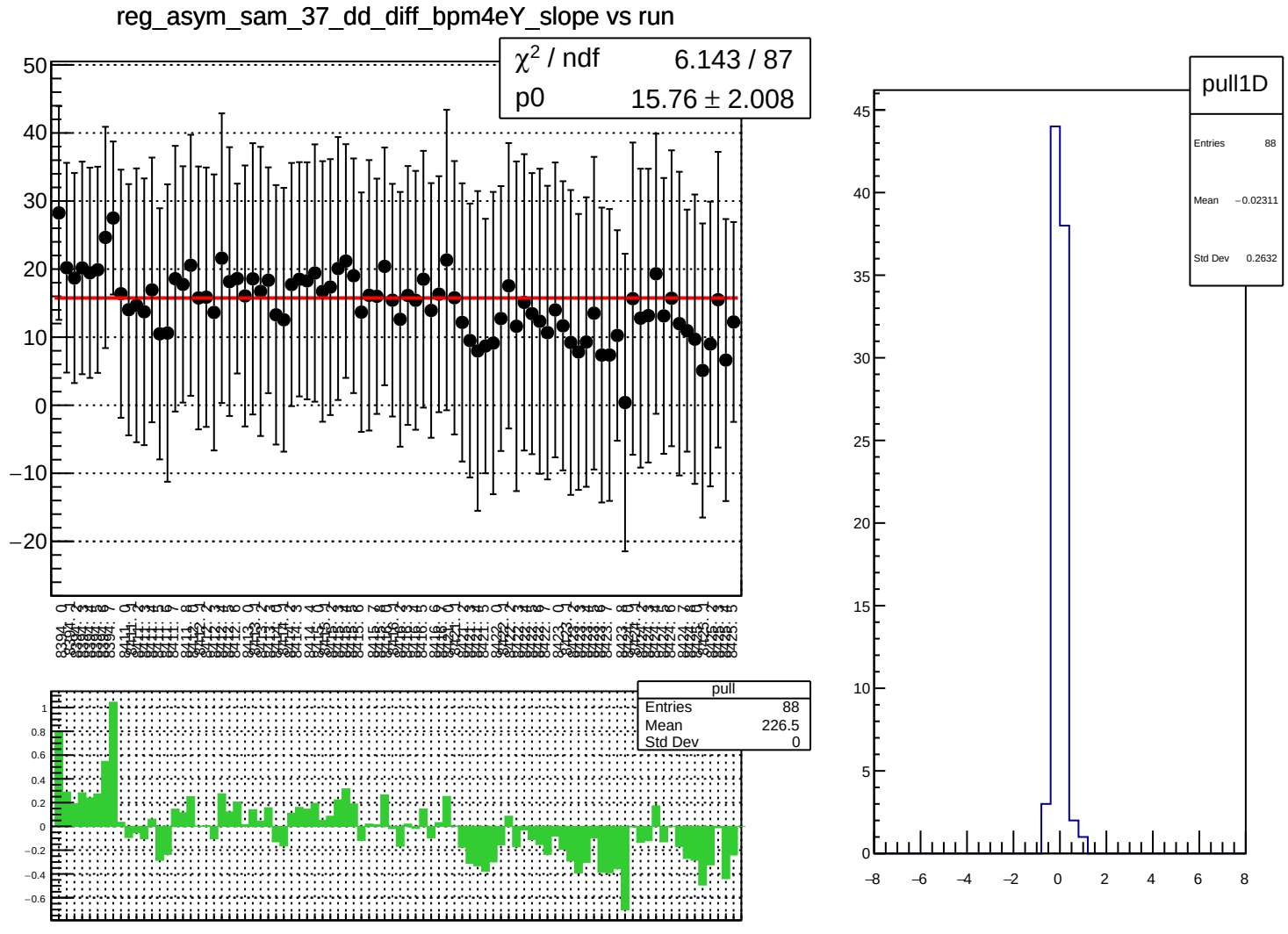

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.426 / 87
p0 −2.715 ± 3.579
pull
Entries 88
Mean 7.143
Std Dev 0
pull1D
Entries 88
Mean −0.003478
Std Dev 0.1273

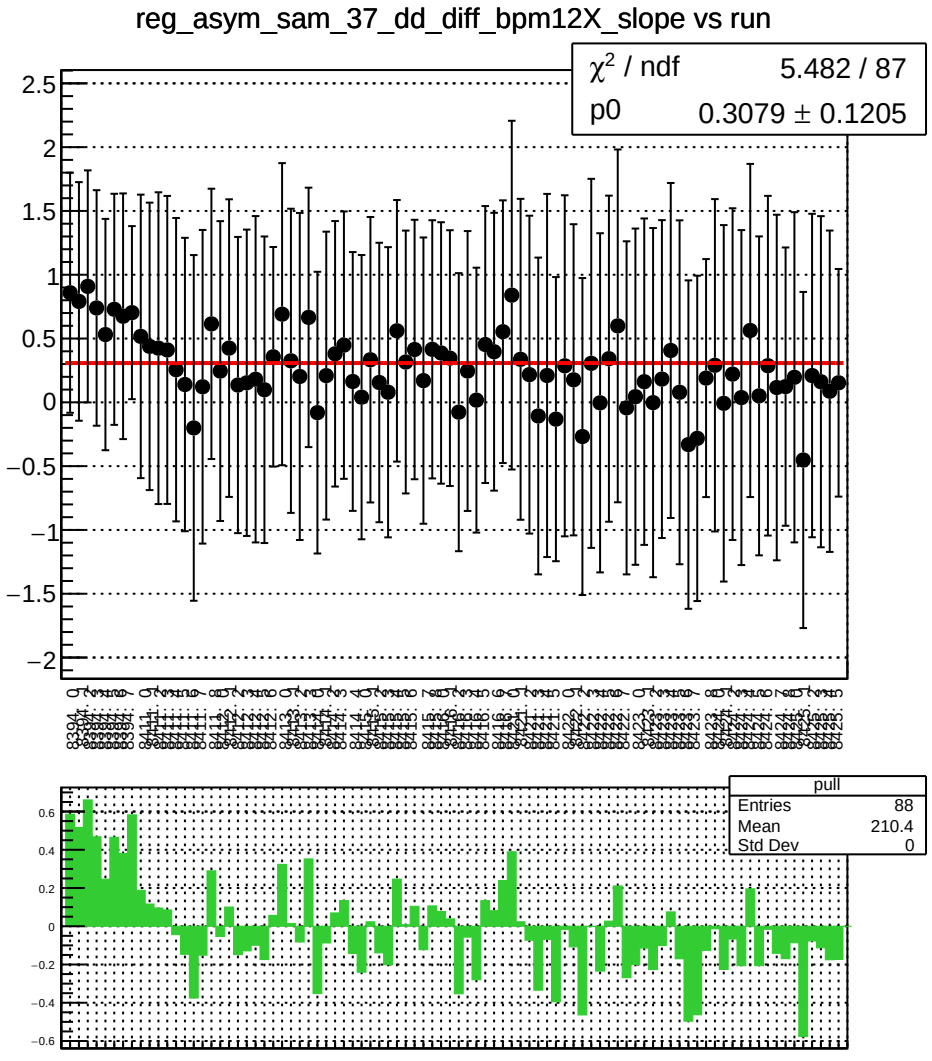

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 2.31 / 87
p0 2.007 ± 0.2147
pull
Entries 88
Mean 132.3
Std Dev 0
pull1D
Entries 88
Mean −0.006212
Std Dev 0.1619

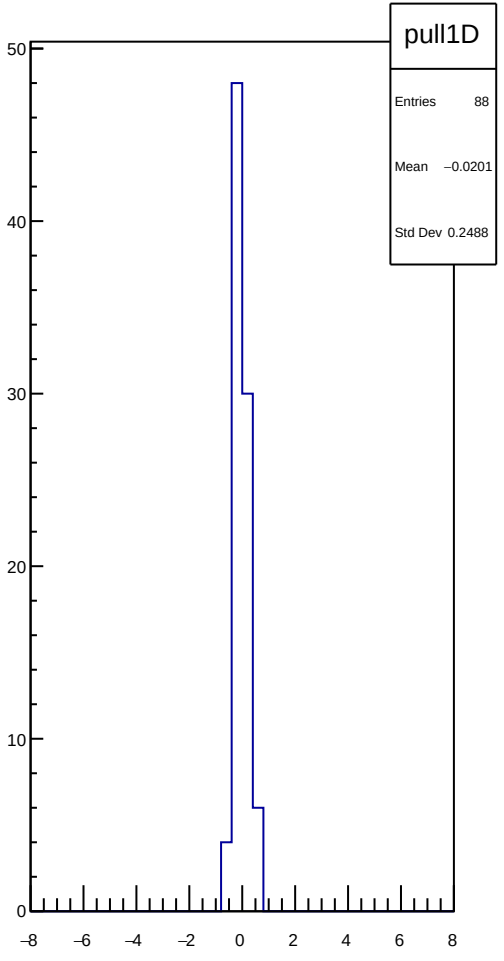

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 3.295 / 87
p0 −30.89 ± 1.028
pull
Entries 88
Mean −3023
Std Dev 0
pull1D
Entries 88
Mean −0.0005308
Std Dev 0.1935

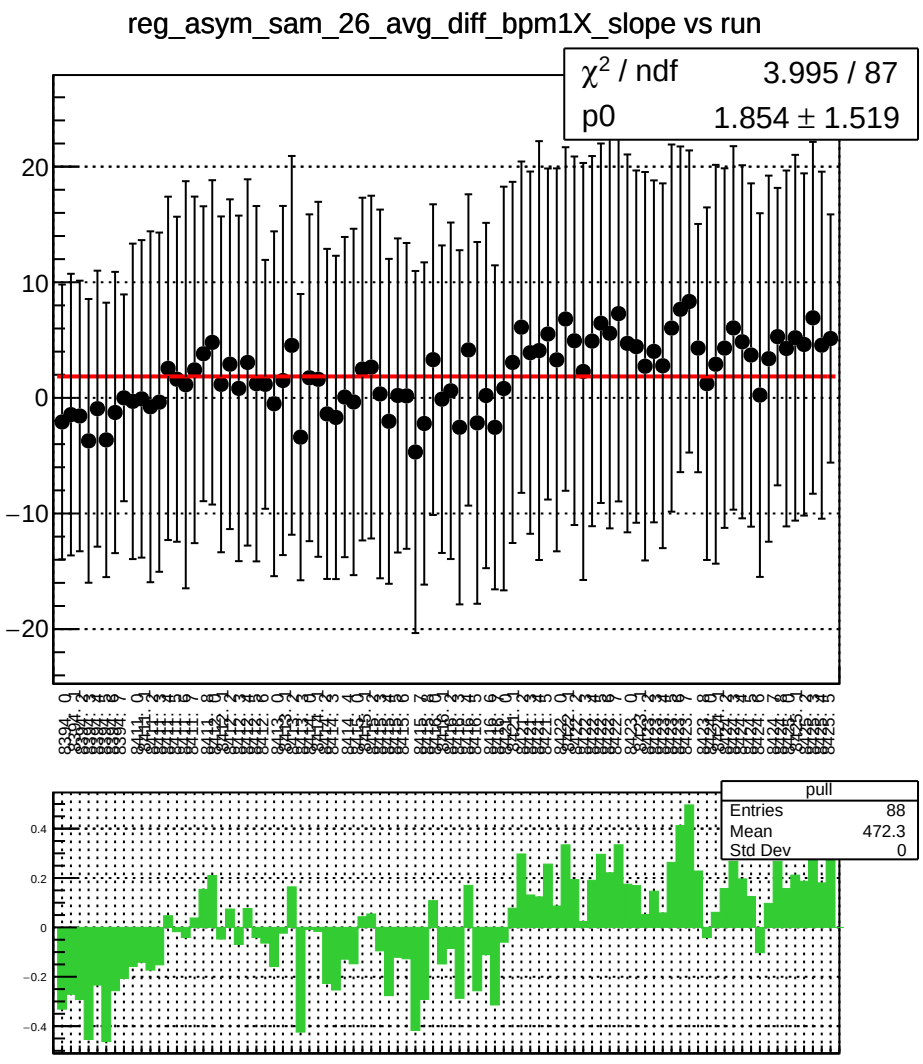

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.23 / 87
p0 −4.596 ± 1.914
pull
Entries 88
Mean 241.5
Std Dev 0
pull1D
Entries 88
Mean 0.01886
Std Dev 0.2431

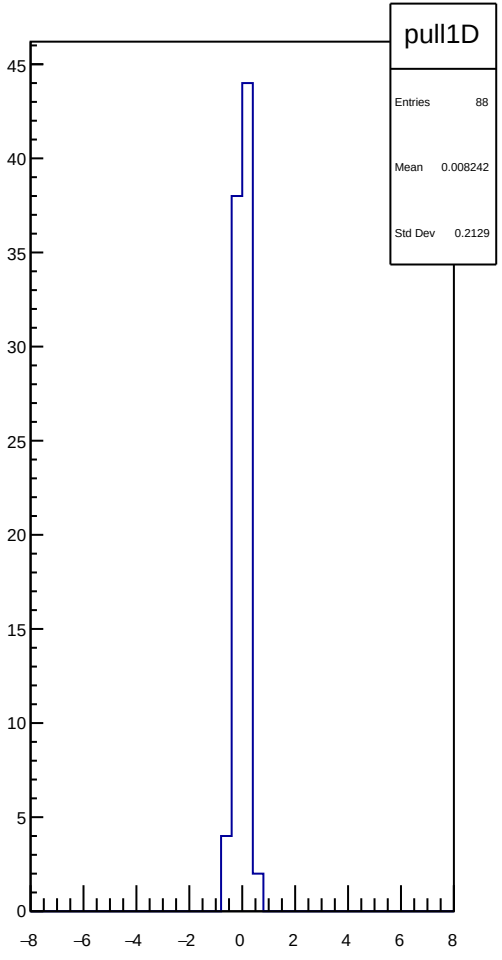

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.568 / 87
p0 −15.54 ± 1.147
pull
Entries 88
Mean −2549
Std Dev 0
pull1D
Entries 88
Mean 0.000326
Std Dev 0.1708

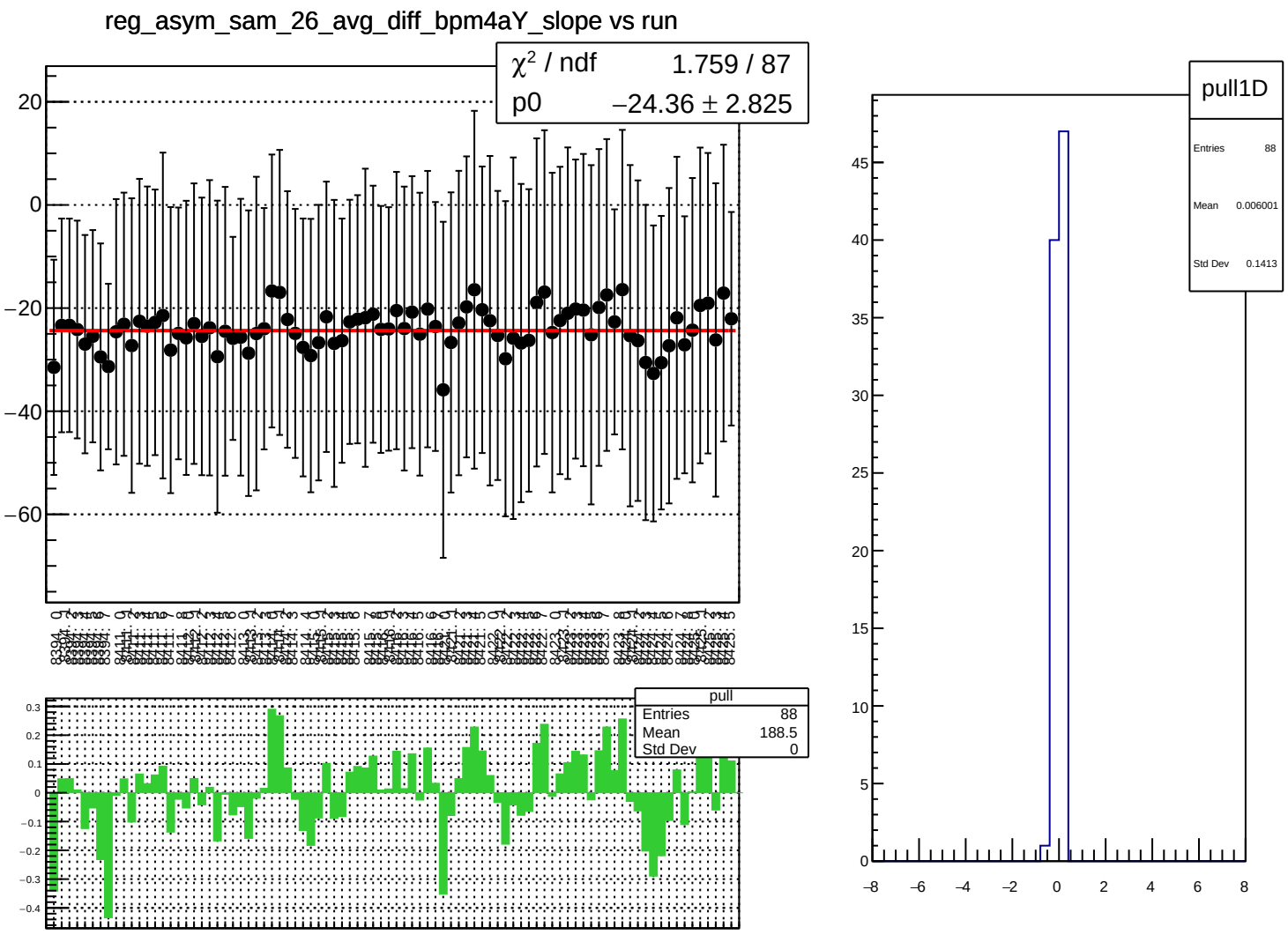

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.143 / 87
p0 15.76 ± 2.008
pull
Entries 88
Mean 226.5
Std Dev 0
pull1D
Entries 88
Mean −0.02311
Std Dev 0.2632

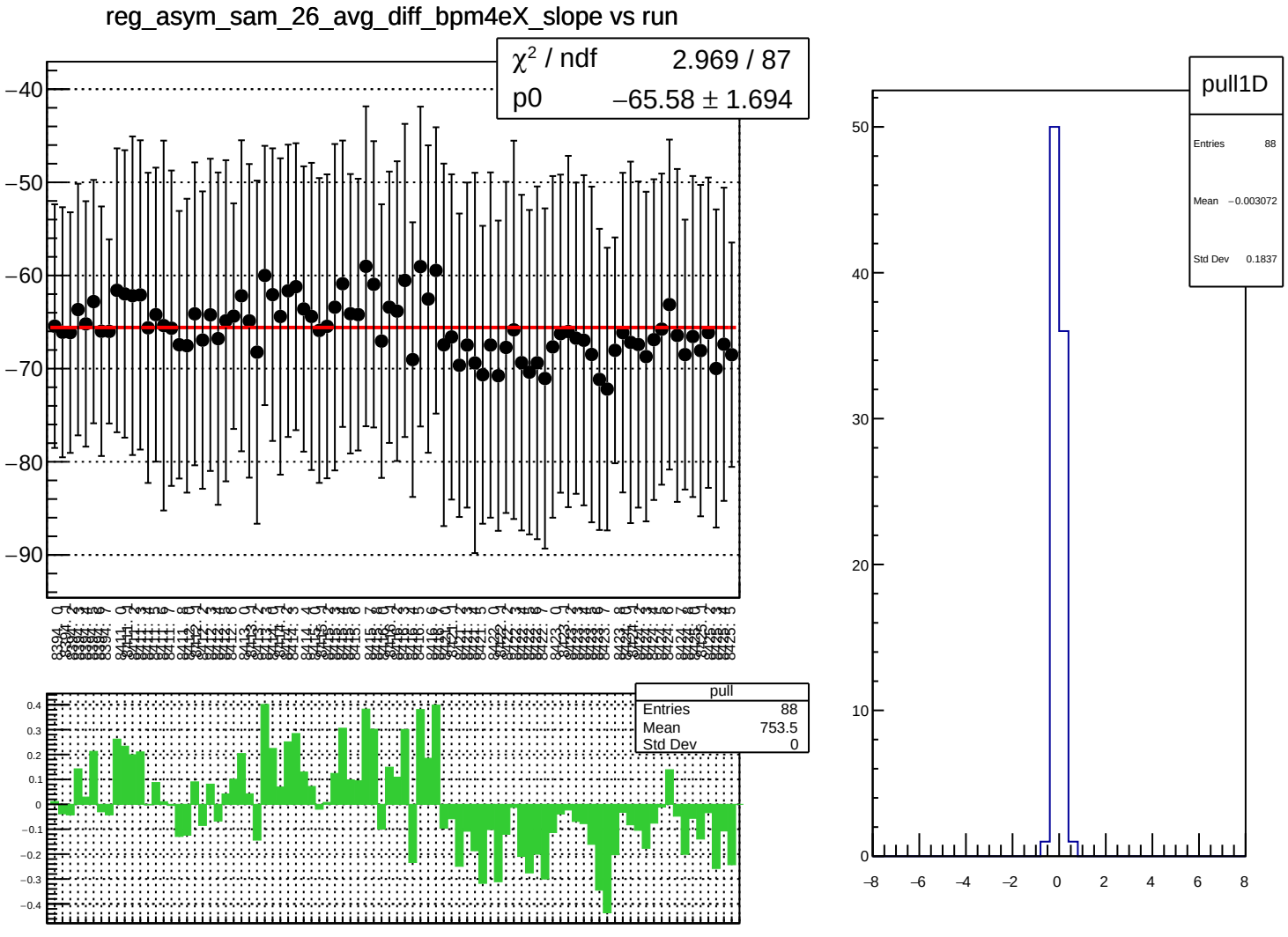

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 5.482 / 87
p0 0.3079 ± 0.1205
pull
Entries 88
Mean 210.4
Std Dev 0

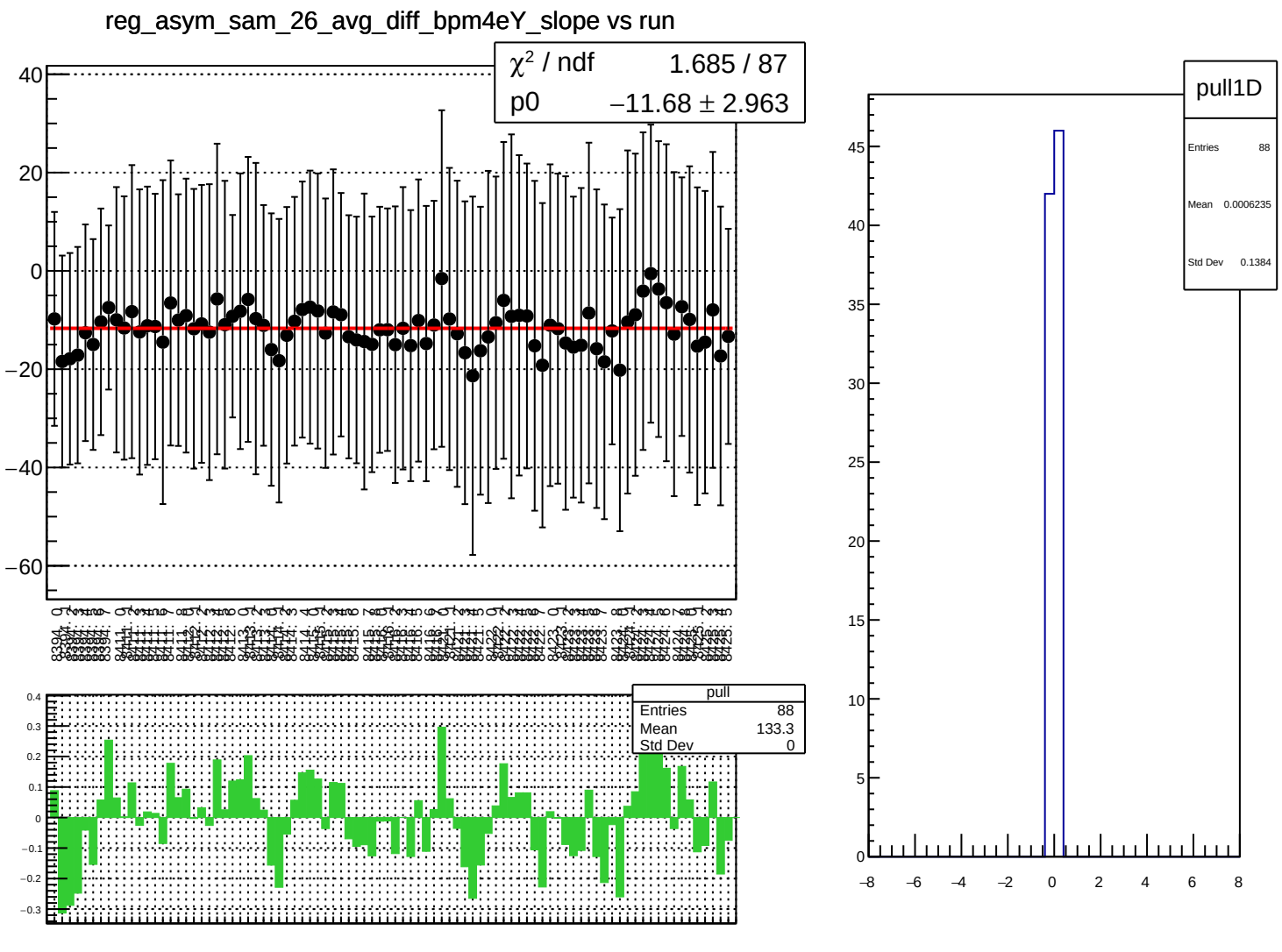

pull1D
Entries 88
Mean −0.0201
Std Dev 0.2488

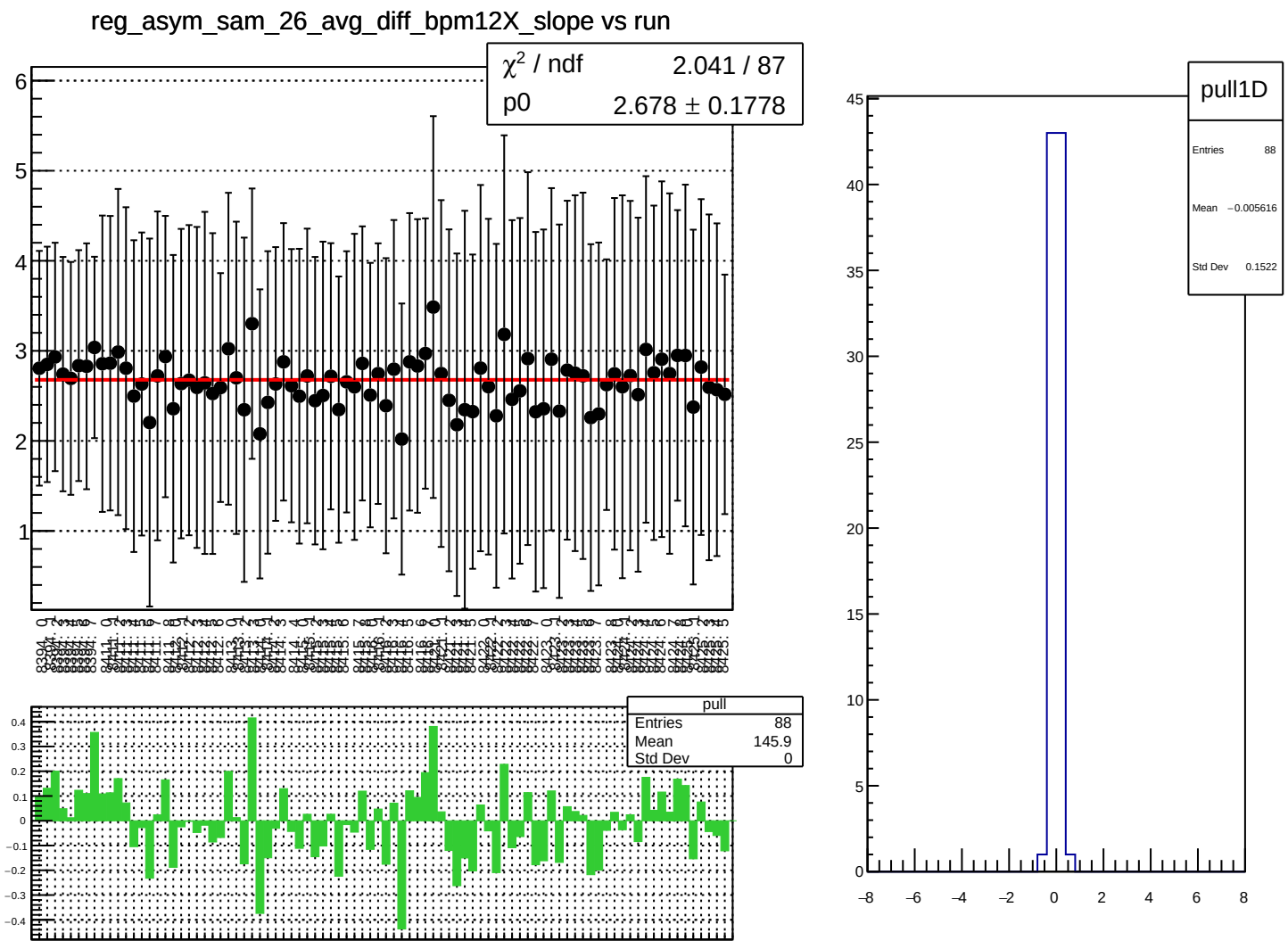

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 3.995 / 87
p0 1.854 ± 1.519
pull
Entries 88
Mean 472.3
Std Dev 0

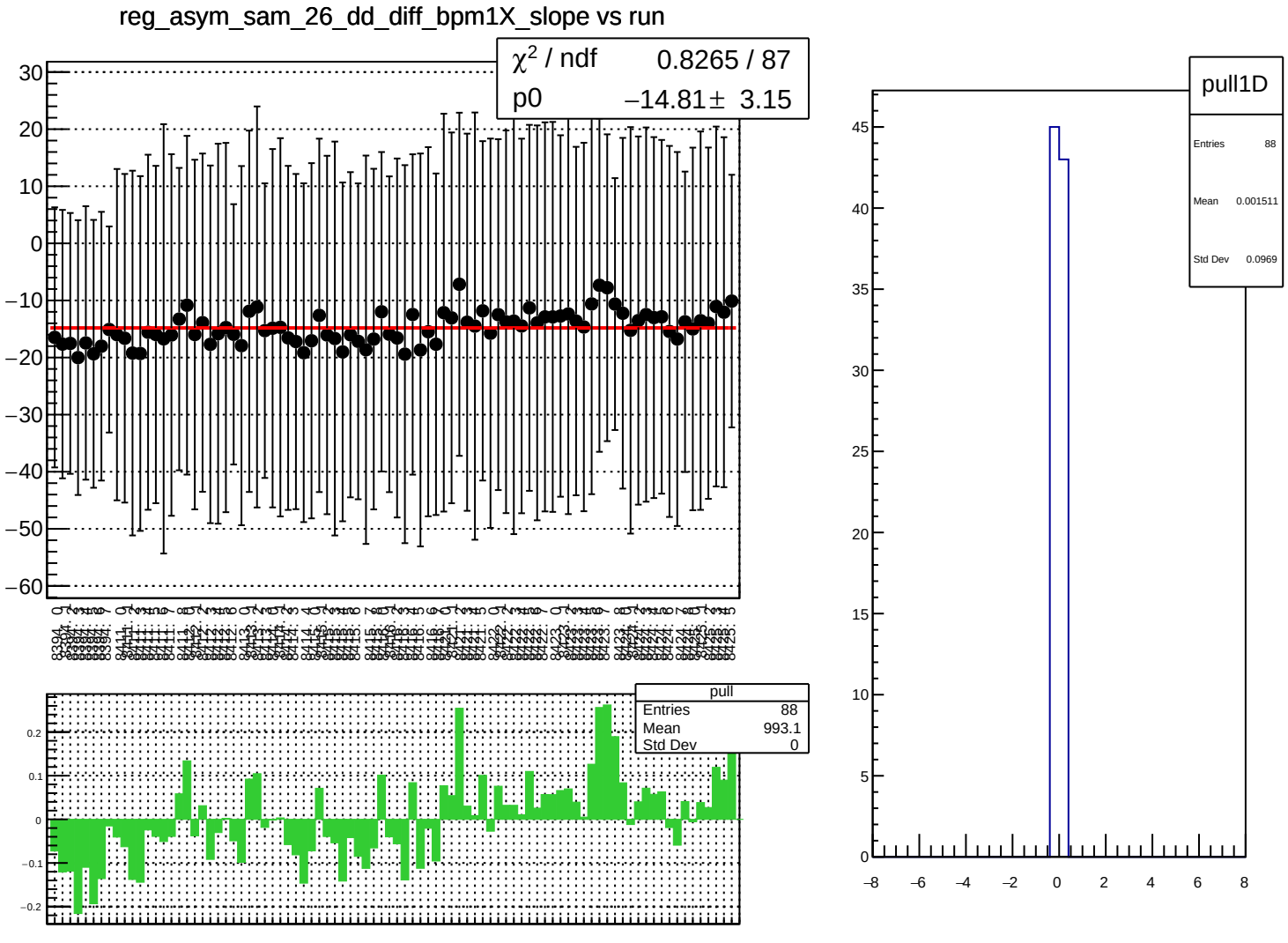

pull1D
Entries 88
Mean 0.008242
Std Dev 0.2129

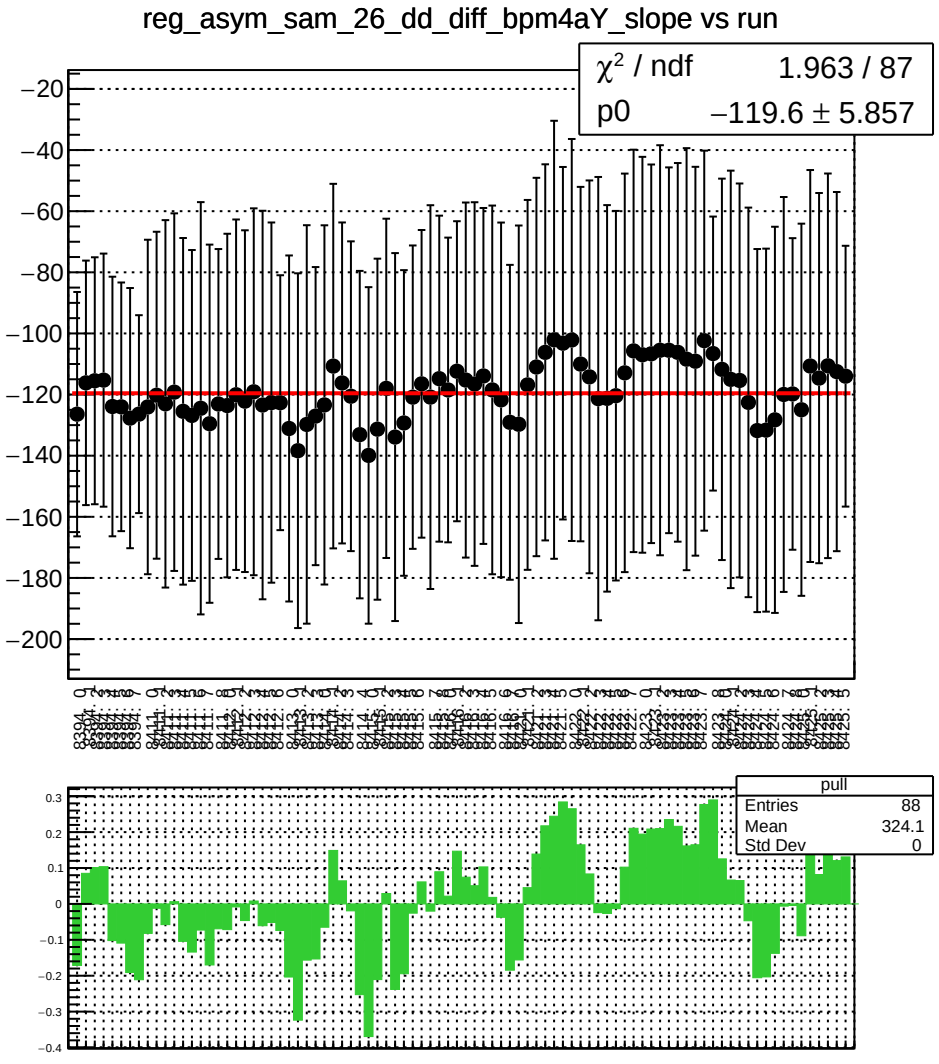

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.759 / 87
p0 −24.36 ± 2.825
20
0
−20
−40
−60
pull
Entries 88
Mean 188.5
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 88
Mean 0.006001
Std Dev 0.1413
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

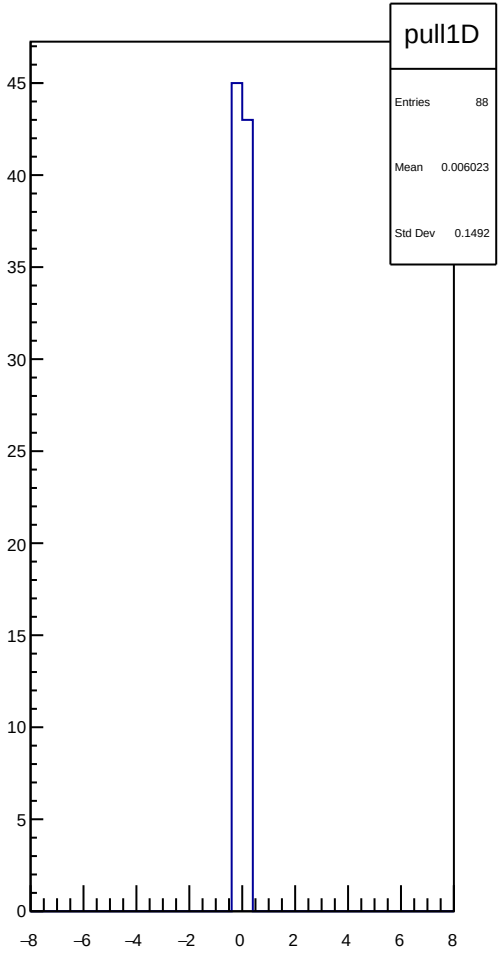

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.969 / 87
p0 −65.58 ± 1.694
pull
Entries 88
Mean 753.5
Std Dev 0
pull1D
Entries 88
Mean −0.003072
Std Dev 0.1837

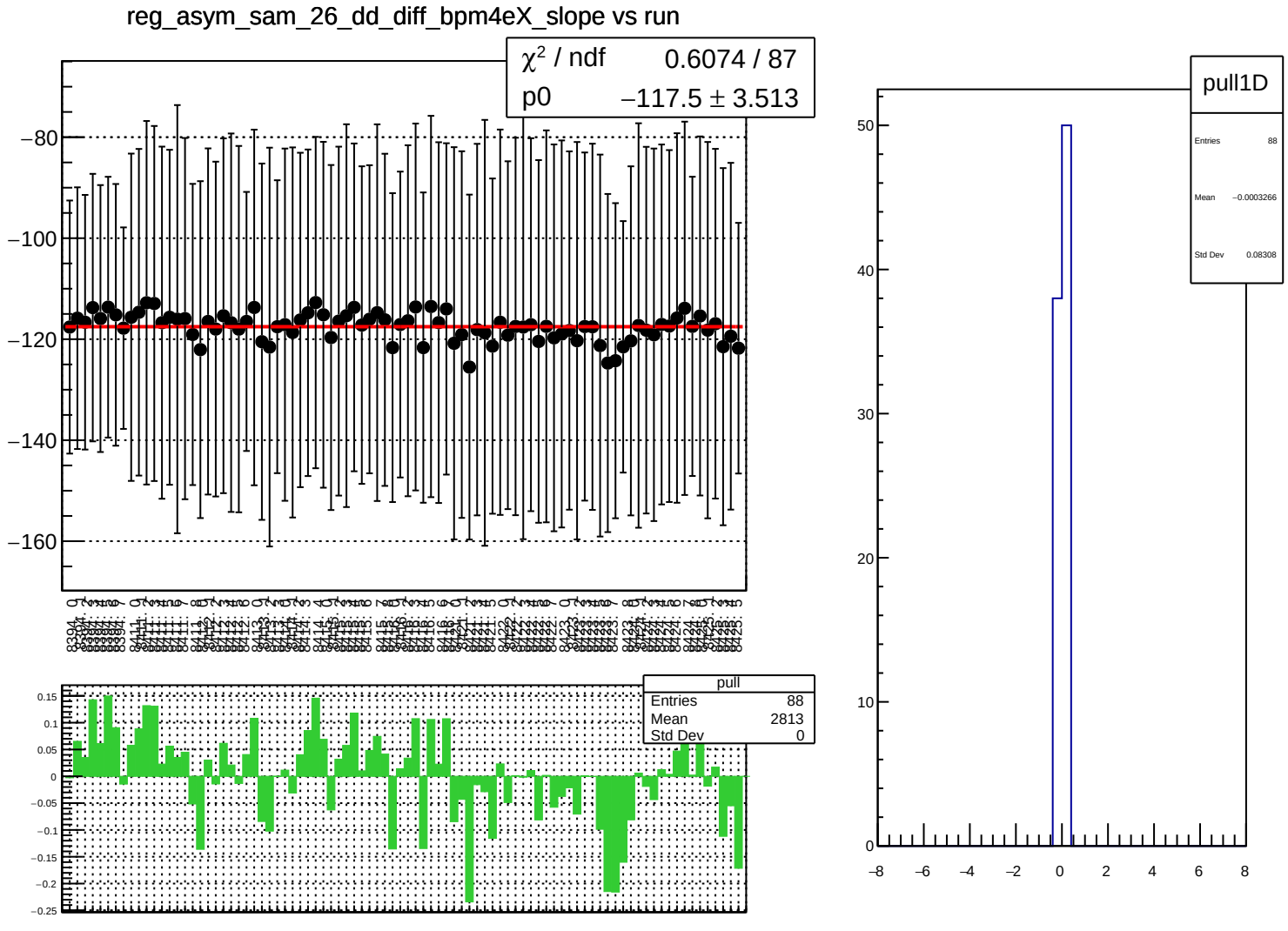

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.685 / 87
p0 −11.68 ± 2.963
pull
Entries 88
Mean 133.3
Std Dev 0
pull1D
Entries 88
Mean 0.0006235
Std Dev 0.1384

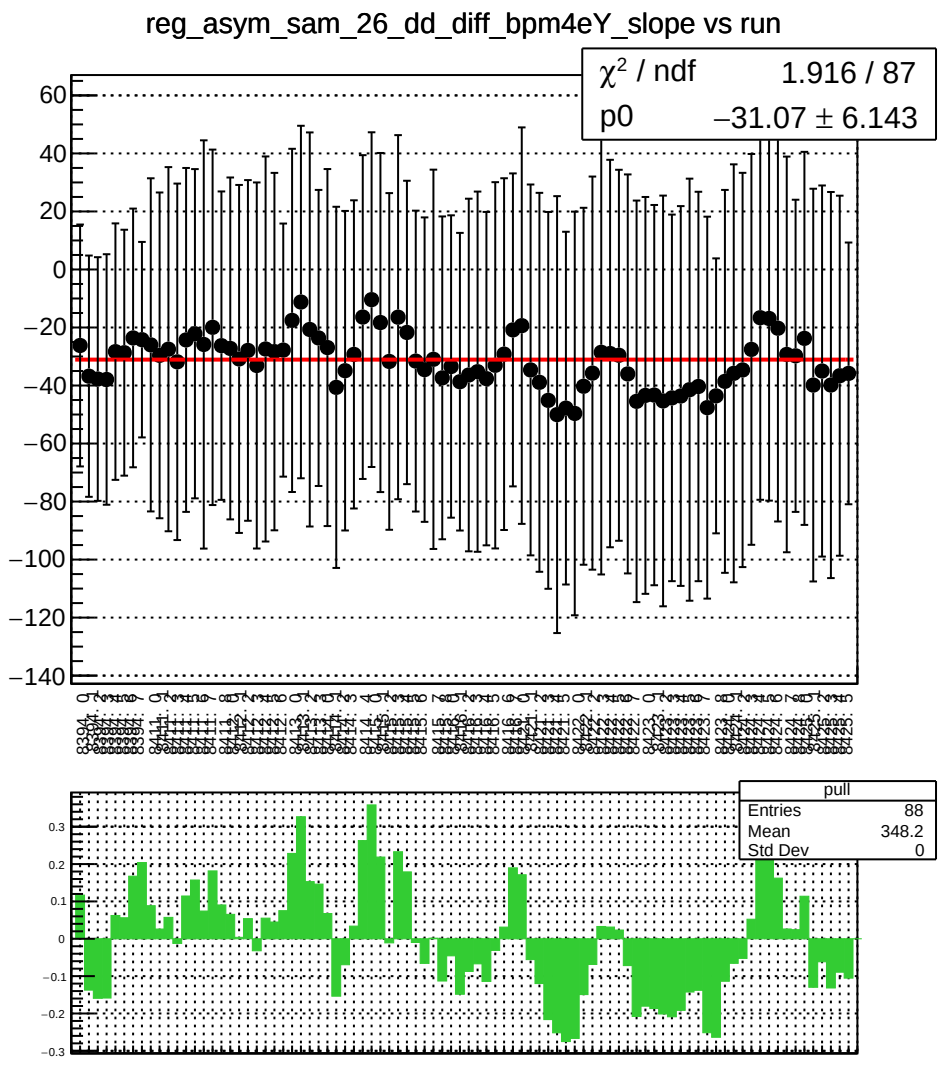

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 2.041 / 87
p0 2.678 ± 0.1778
pull
Entries 88
Mean 145.9
Std Dev 0
pull1D
Entries 88
Mean −0.005616
Std Dev 0.1522

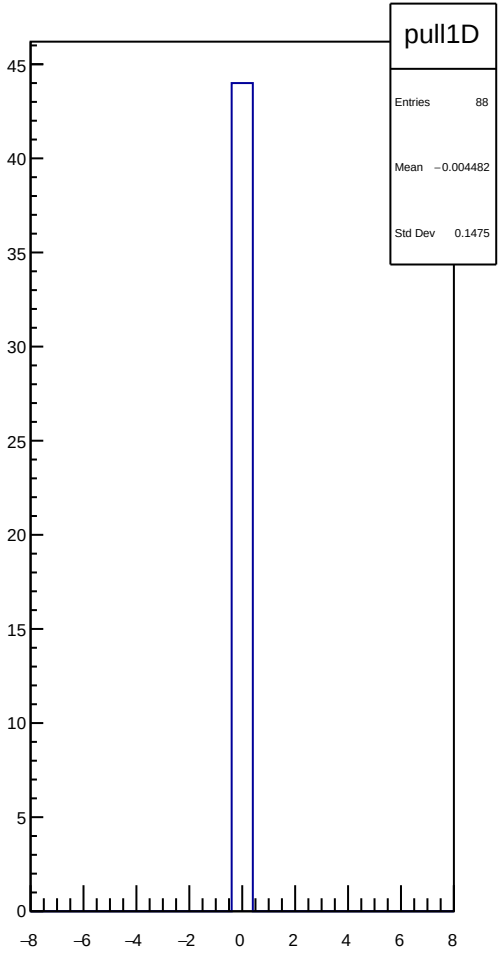

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 0.8265 / 87
p0 −14.81 ± 3.15
pull
Entries 88
Mean 993.1
Std Dev 0
pull1D
Entries 88
Mean 0.001511
Std Dev 0.0969

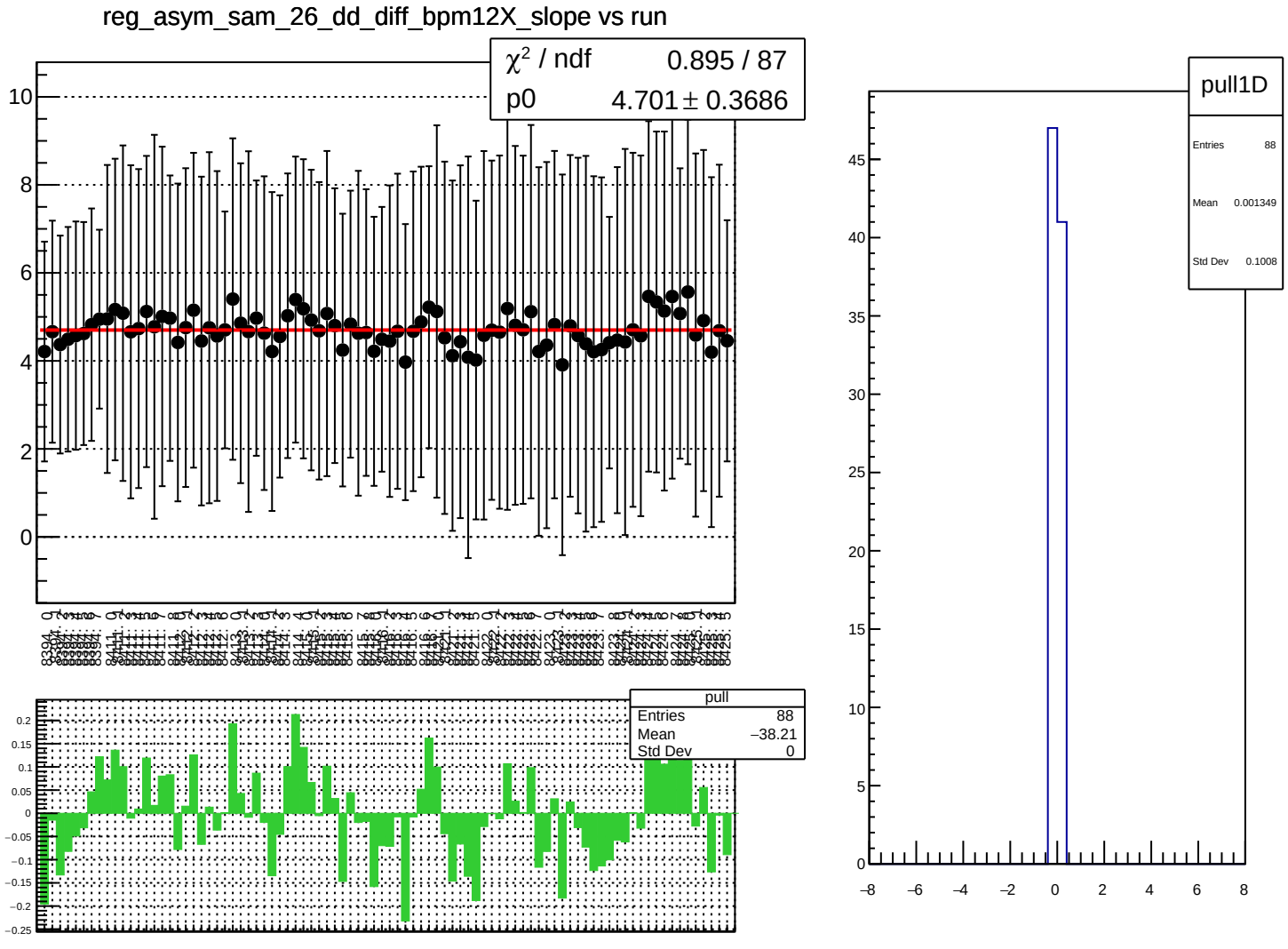

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.963 / 87
p0 −119.6 ± 5.857
pull
Entries 88
Mean 324.1
Std Dev 0

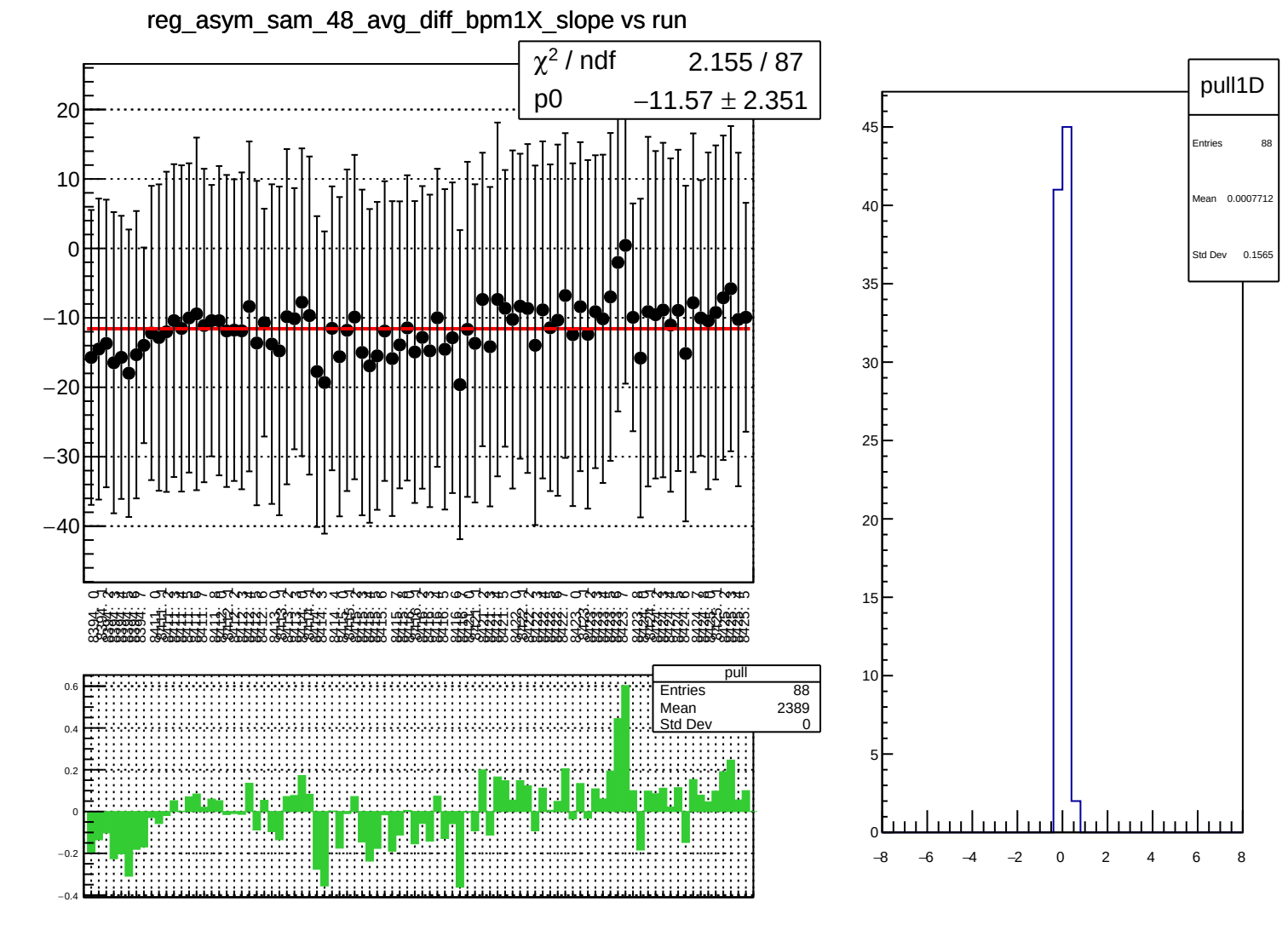

pull1D
Entries 88
Mean 0.006023
Std Dev 0.1492

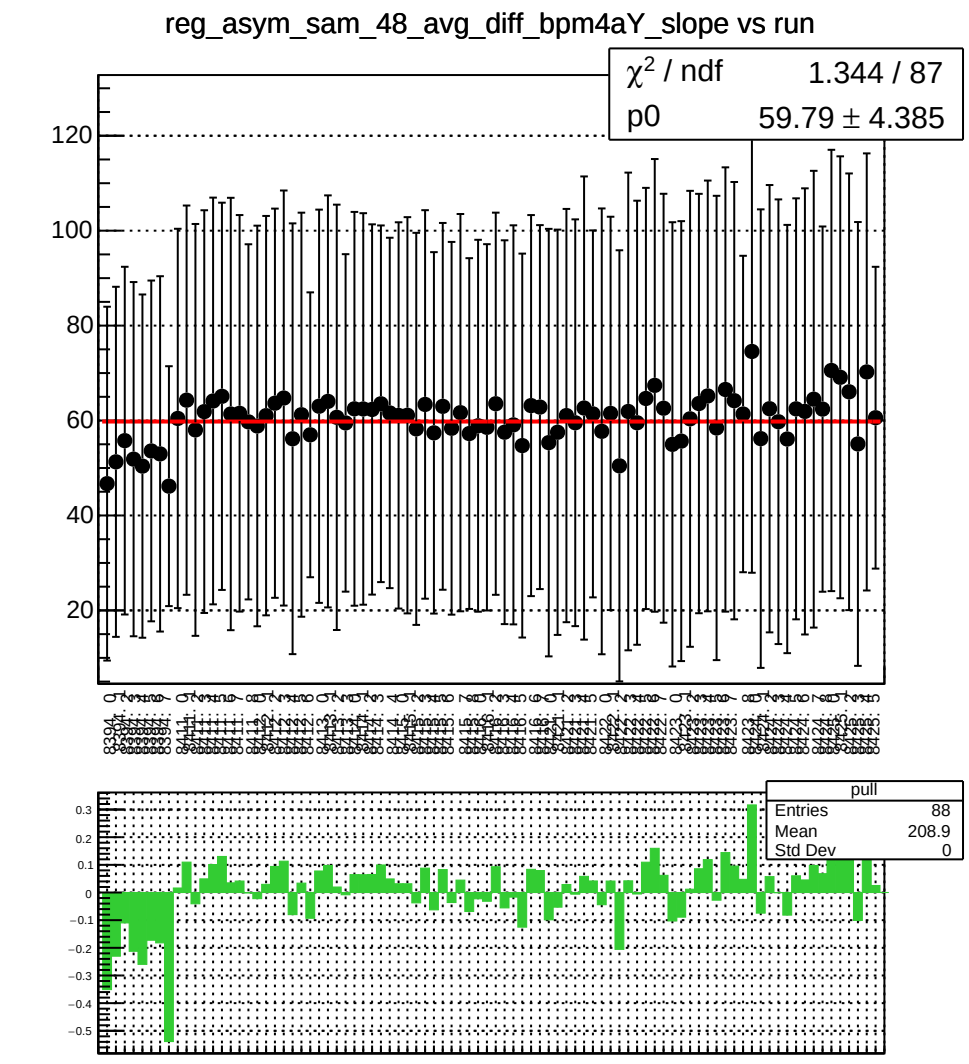

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.6074 / 87
p0 −117.5 ± 3.513
−80
−100
−120
−140
−160
pull
Entries 88
Mean 2813
Std Dev 0
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull1D
Entries 88
Mean −0.0003266
Std Dev 0.08308
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

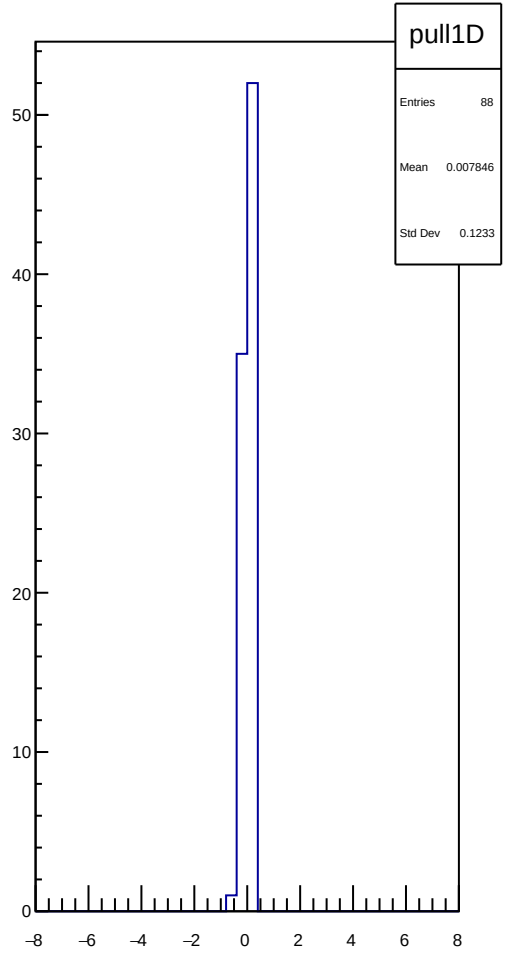

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.916 / 87
p0 −31.07 ± 6.143
pull
Entries 88
Mean 348.2
Std Dev 0

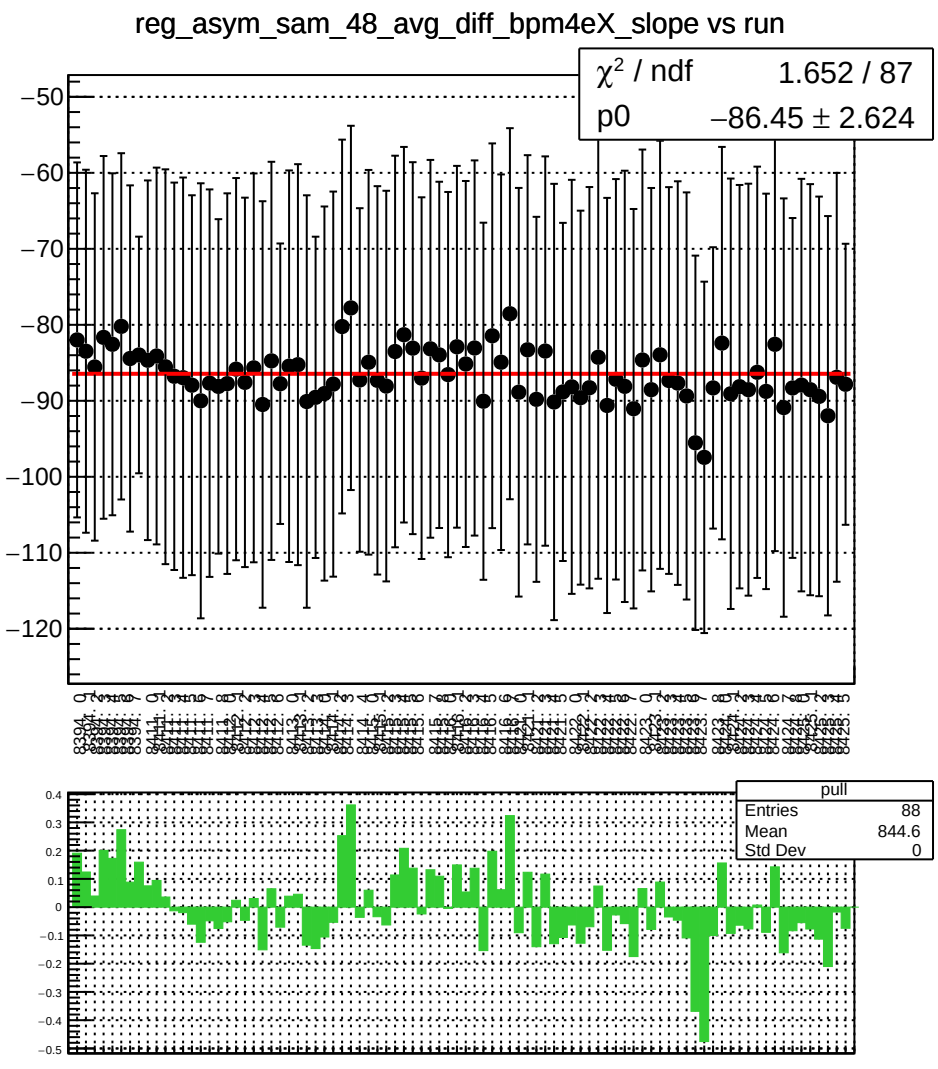

pull1D
Entries 88
Mean −0.004482
Std Dev 0.1475

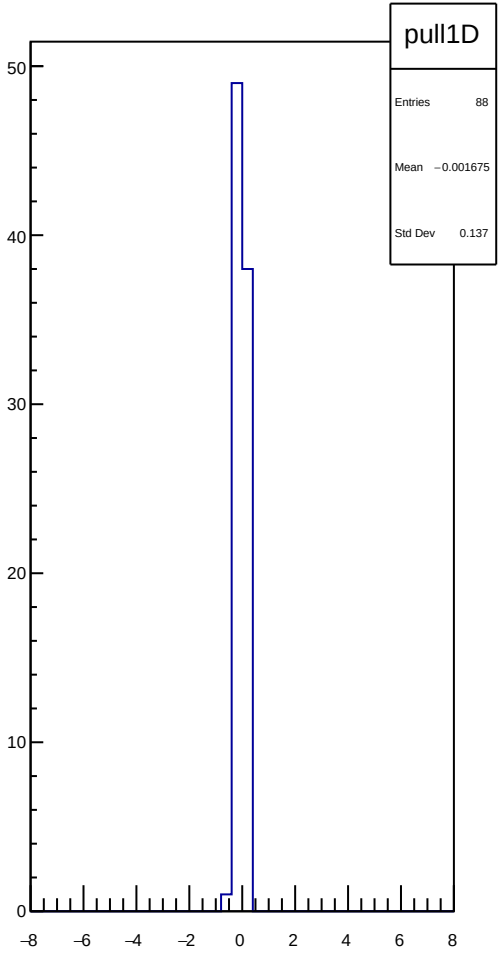

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 0.895 / 87
p0 4.701 ± 0.3686
pull
Entries 88
Mean −38.21
Std Dev 0
pull1D
Entries 88
Mean 0.001349
Std Dev 0.1008

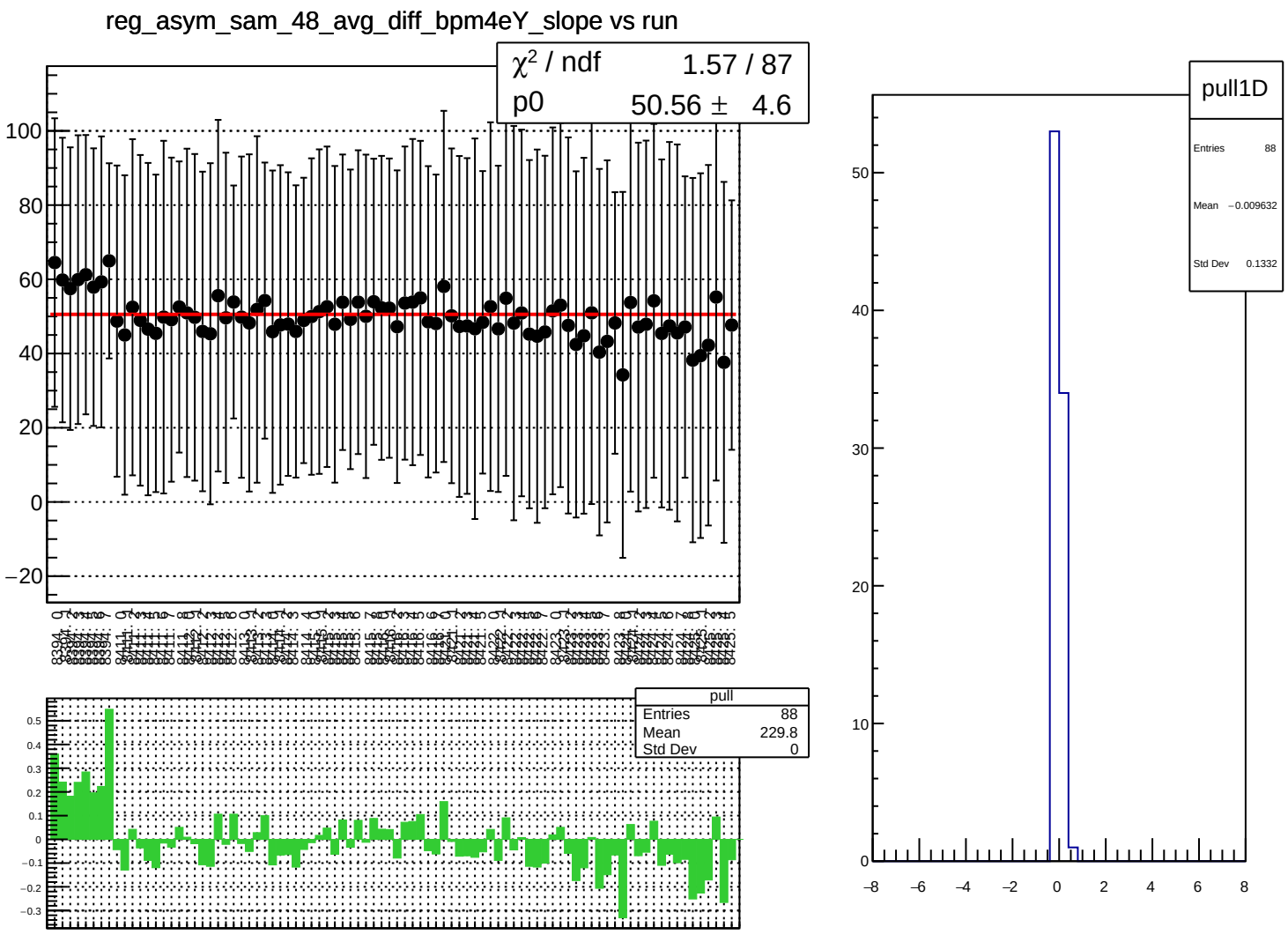

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 2.155 / 87
p0 −11.57 ± 2.351
pull
Entries 88
Mean 2389
Std Dev 0
pull1D
Entries 88
Mean 0.0007712
Std Dev 0.1565

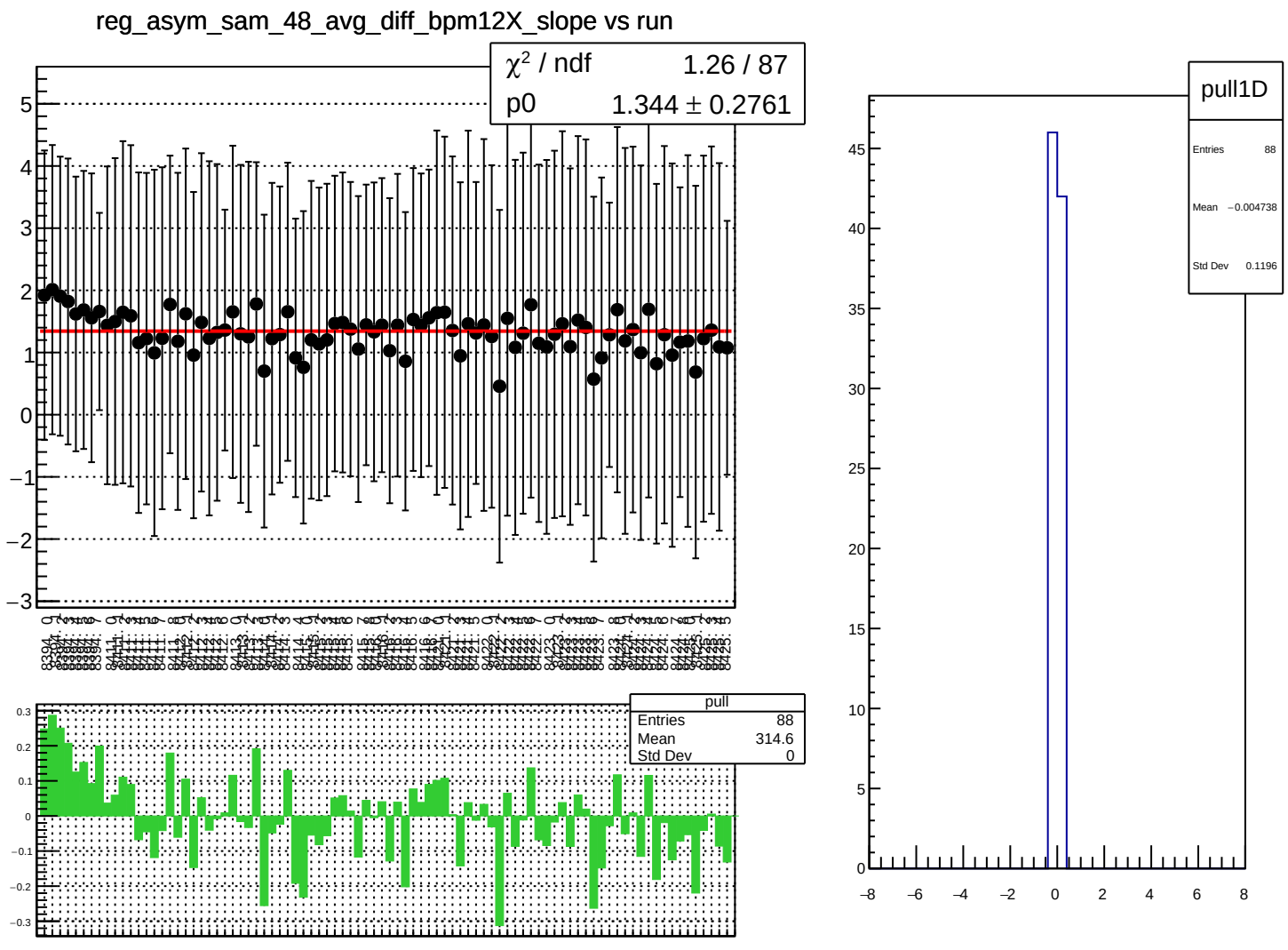

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.344 / 87
p0 59.79 ± 4.385
120
100
80
60
40
20
pull
Entries 88
Mean 208.9
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

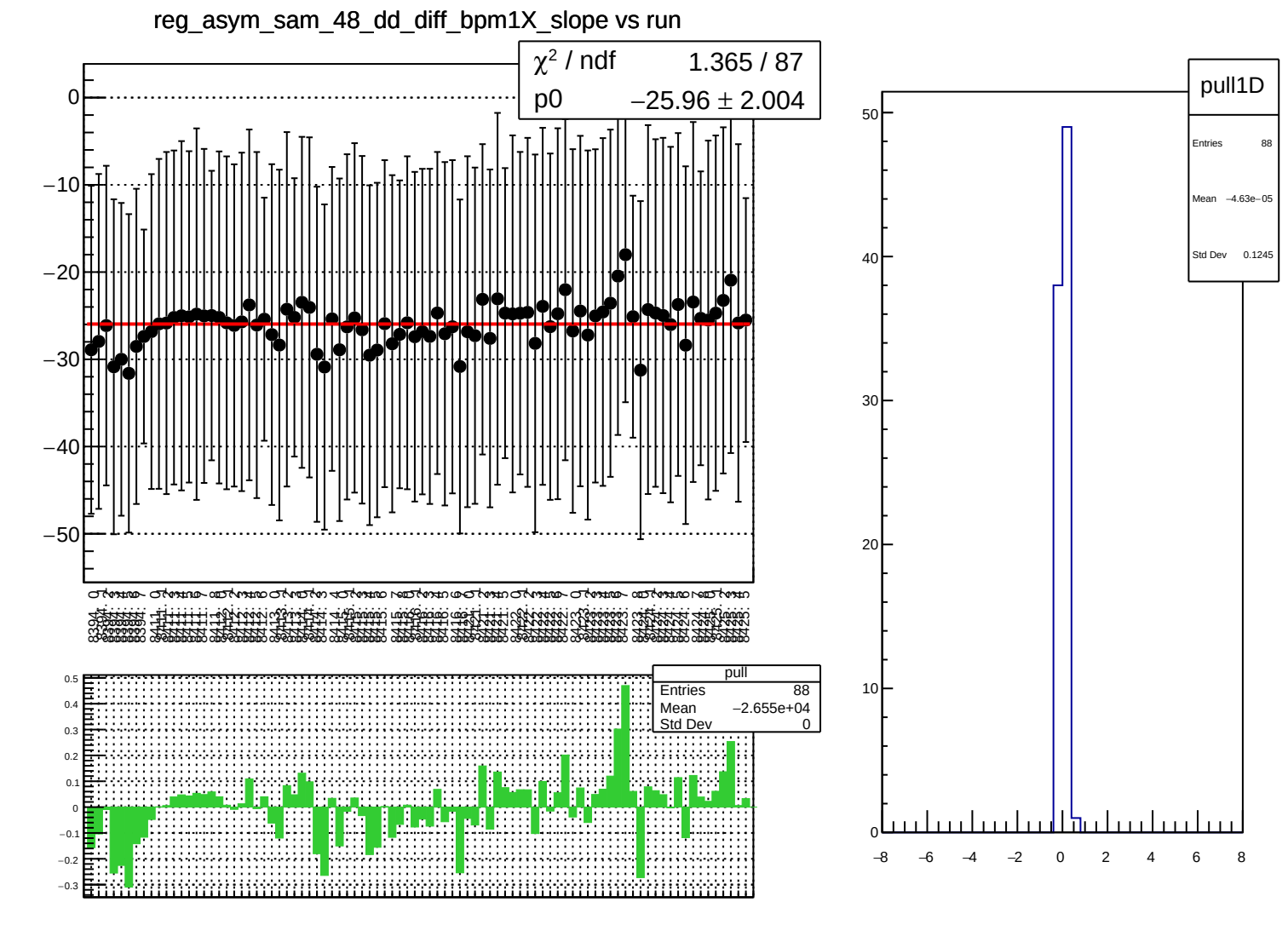

pull1D
Entries 88
Mean 0.007846
Std Dev 0.1233
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

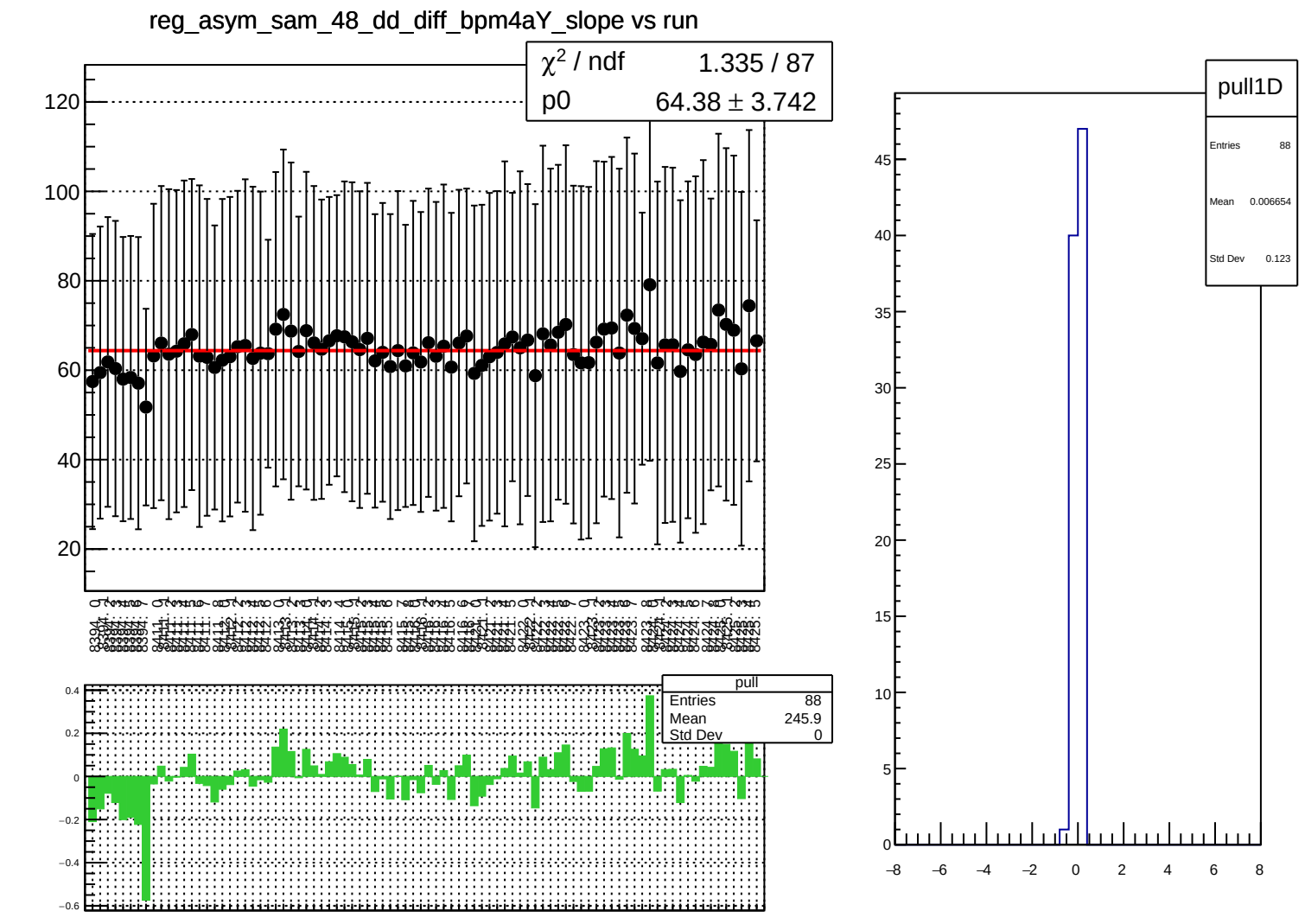

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.652 / 87
p0 −86.45 ± 2.624
pull
Entries 88
Mean 844.6
Std Dev 0

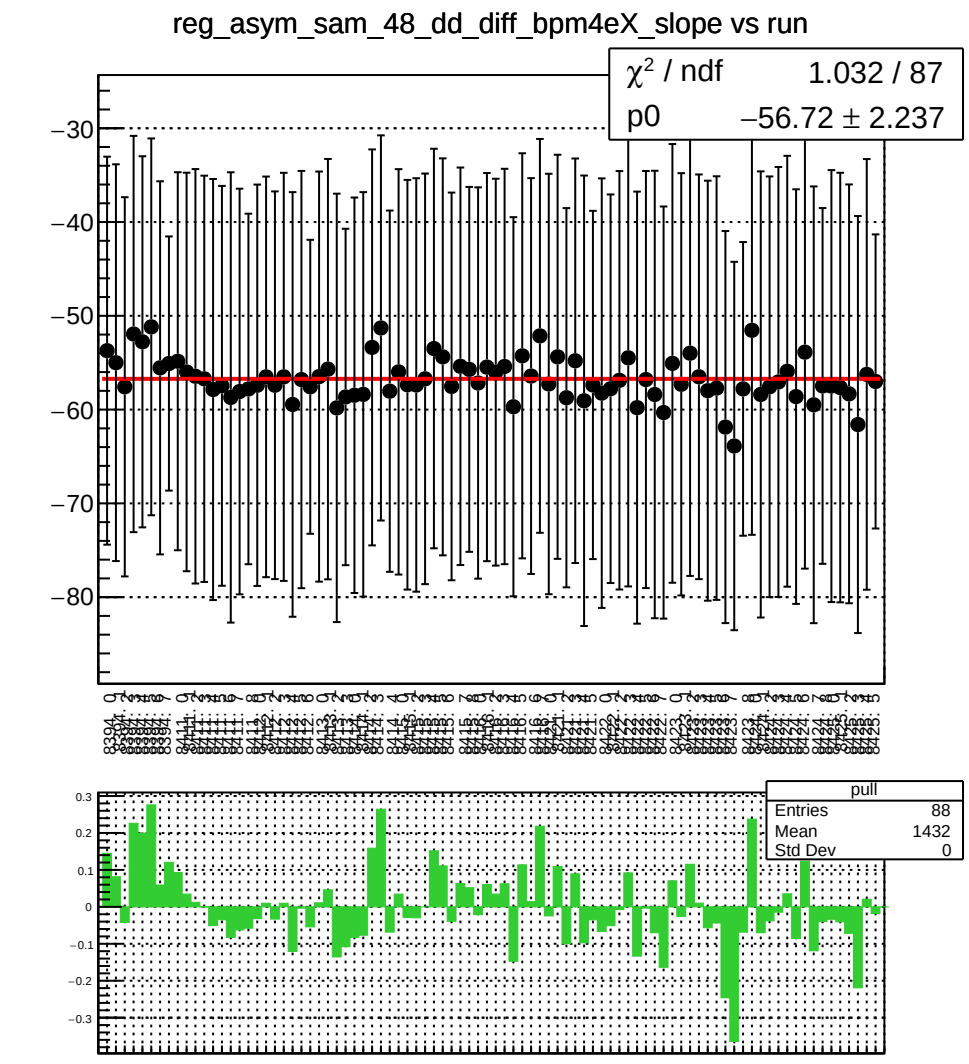

pull1D
Entries 88
Mean −0.001675
Std Dev 0.137

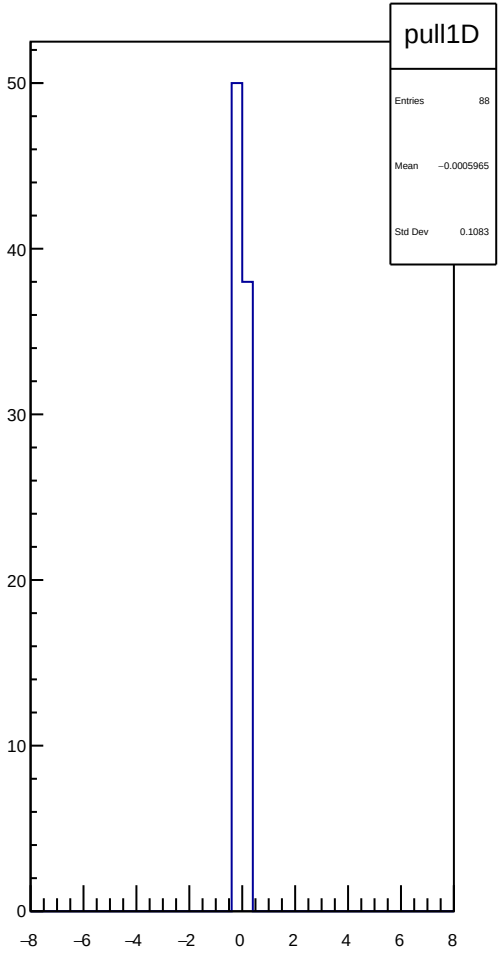

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.57 / 87
p0 50.56 ± 4.6
pull
Entries 88
Mean 229.8
Std Dev 0
pull1D
Entries 88
Mean −0.009632
Std Dev 0.1332

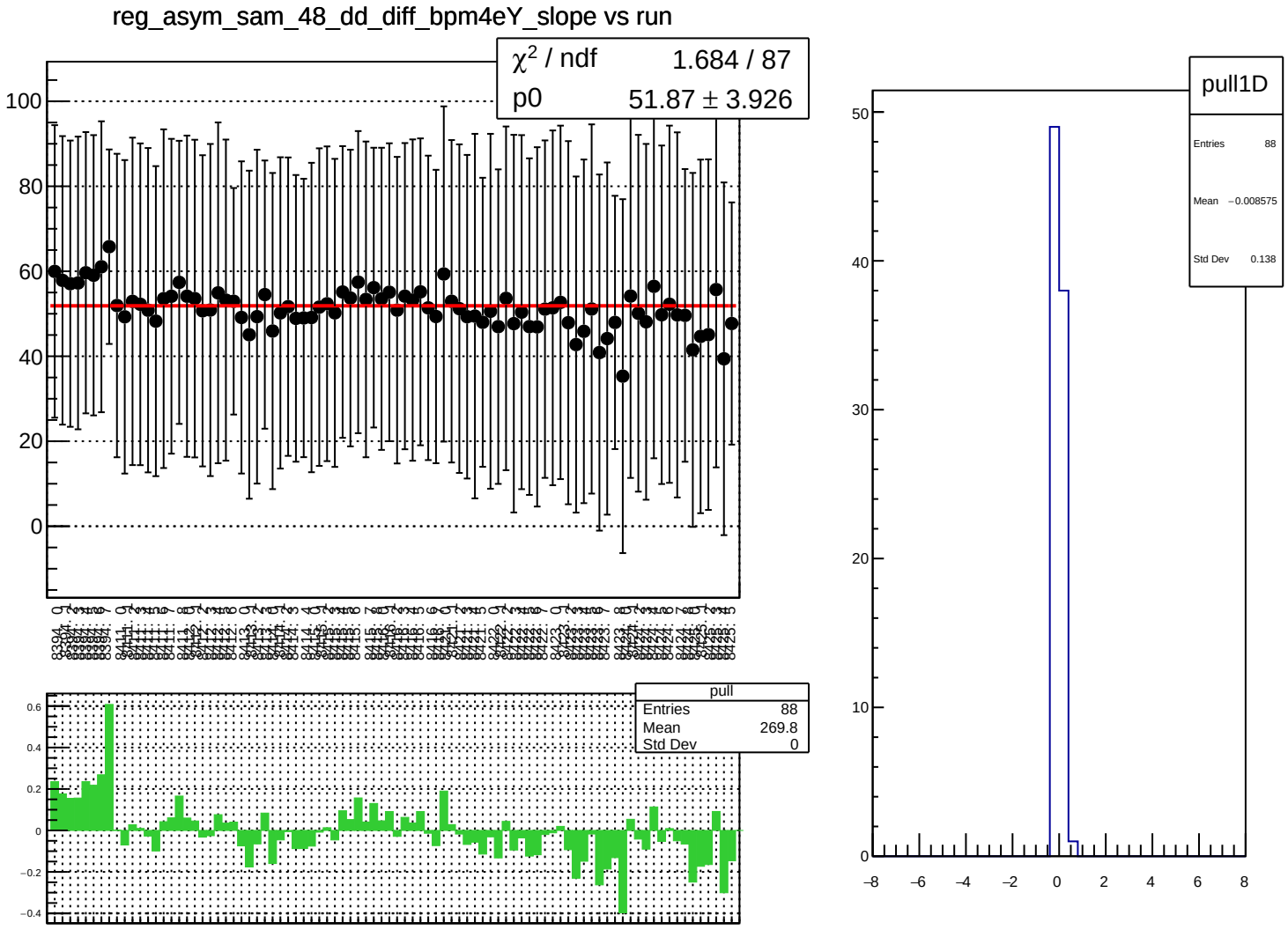

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 1.26 / 87
p0 1.344 ± 0.2761
pull
Entries 88
Mean 314.6
Std Dev 0
pull1D
Entries 88
Mean −0.004738
Std Dev 0.1196

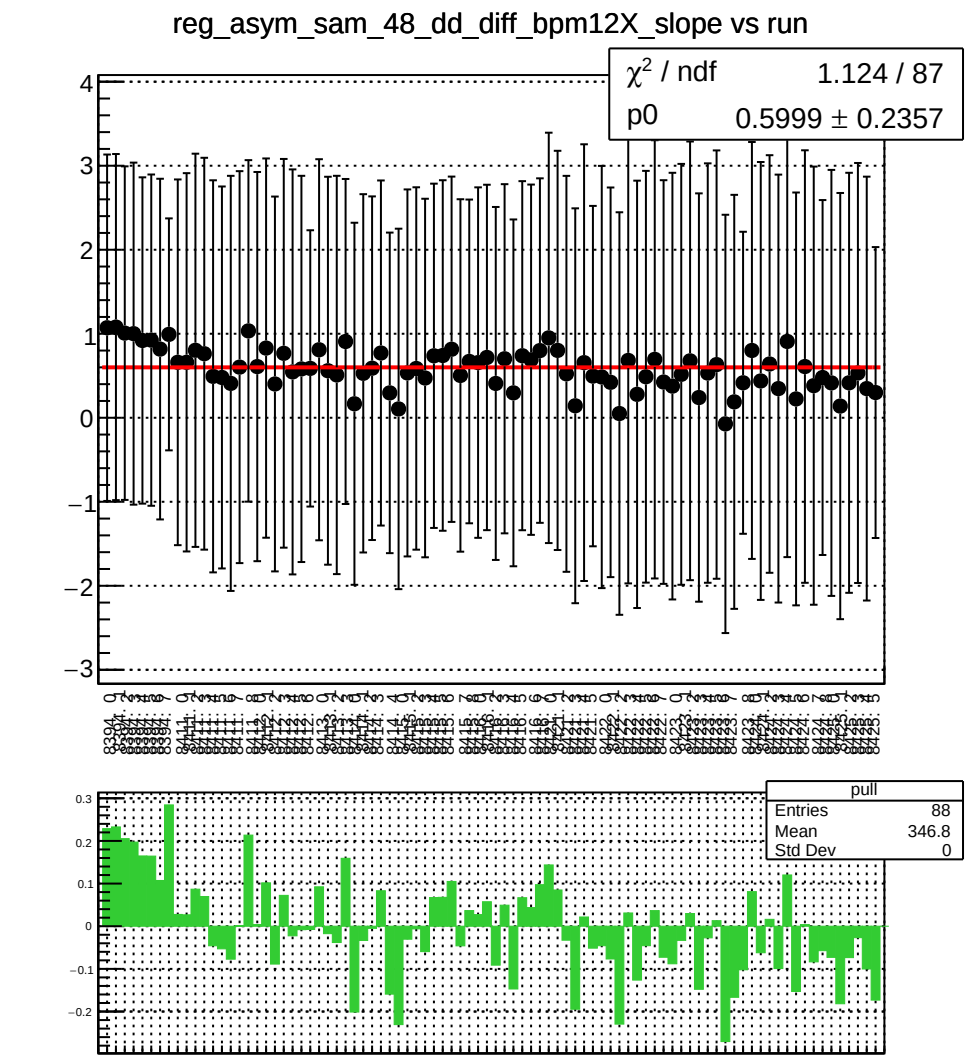

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 1.365 / 87
p0 −25.96 ± 2.004
pull
Entries 88
Mean −2.655e+04
Std Dev 0
pull1D
Entries 88
Mean −4.63e−05
Std Dev 0.1245

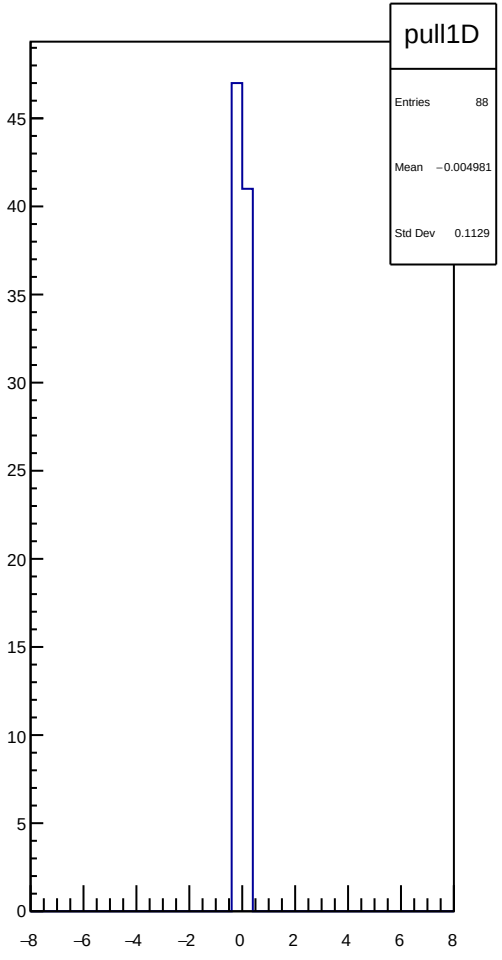

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.335 / 87
p0 64.38 ± 3.742
120
100
80
60
40
20
pull
Entries 88
Mean 245.9
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean 0.006654
Std Dev 0.123
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

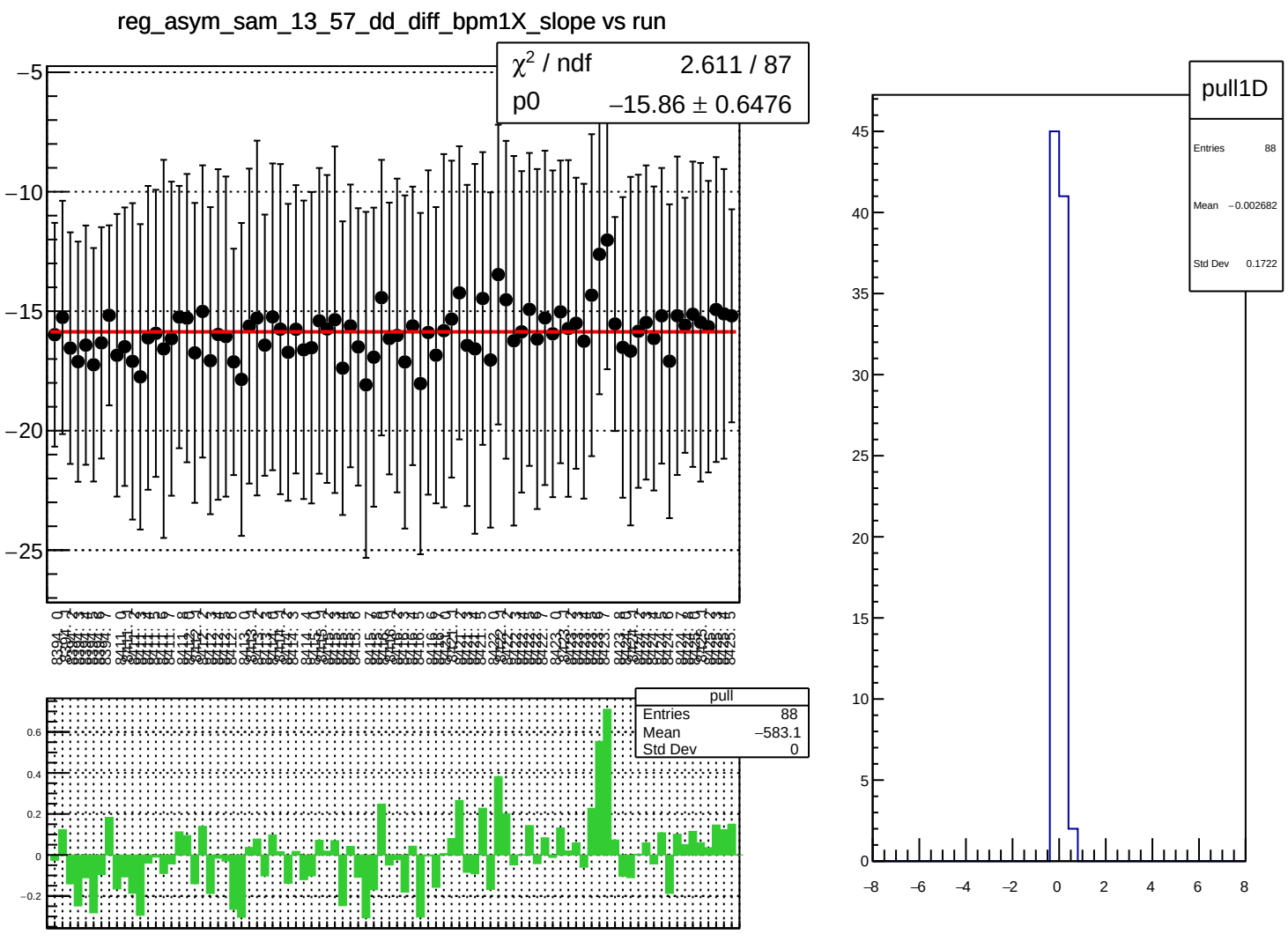

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.032 / 87
p0 −56.72 ± 2.237
−30
−40
−50
−60
−70
−80
pull
Entries 88
Mean 1432
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

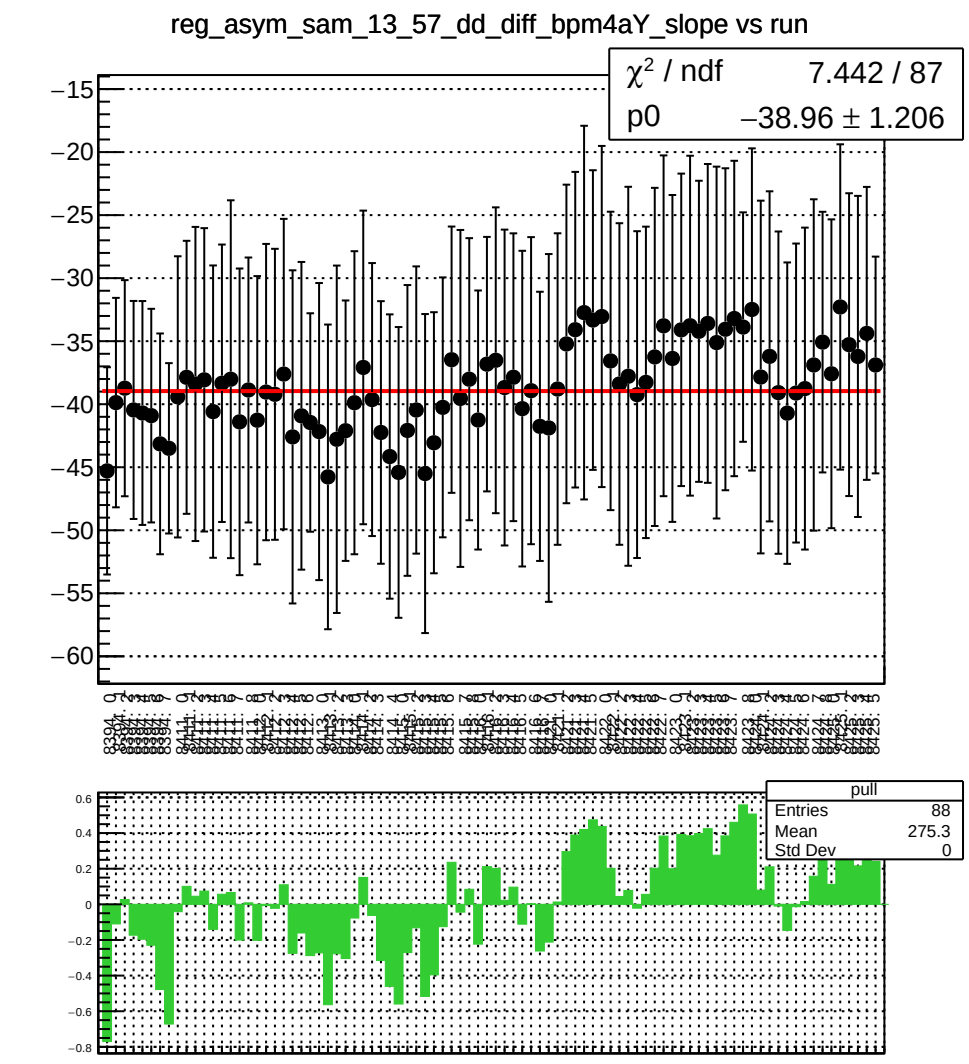

pull1D
Entries 88
Mean −0.0005965
Std Dev 0.1083
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

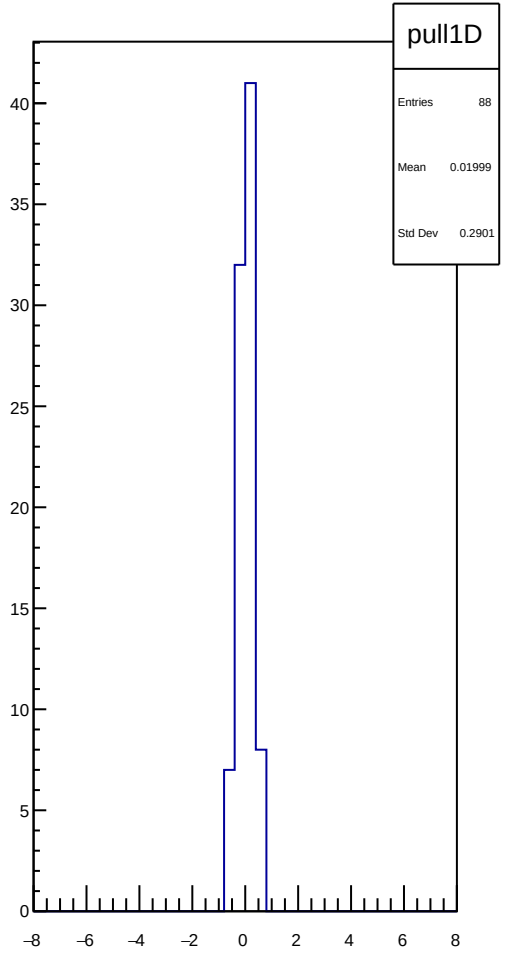

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.684 / 87
p0 51.87 ± 3.926
pull
Entries 88
Mean 269.8
Std Dev 0
pull1D
Entries 88
Mean −0.008575
Std Dev 0.138

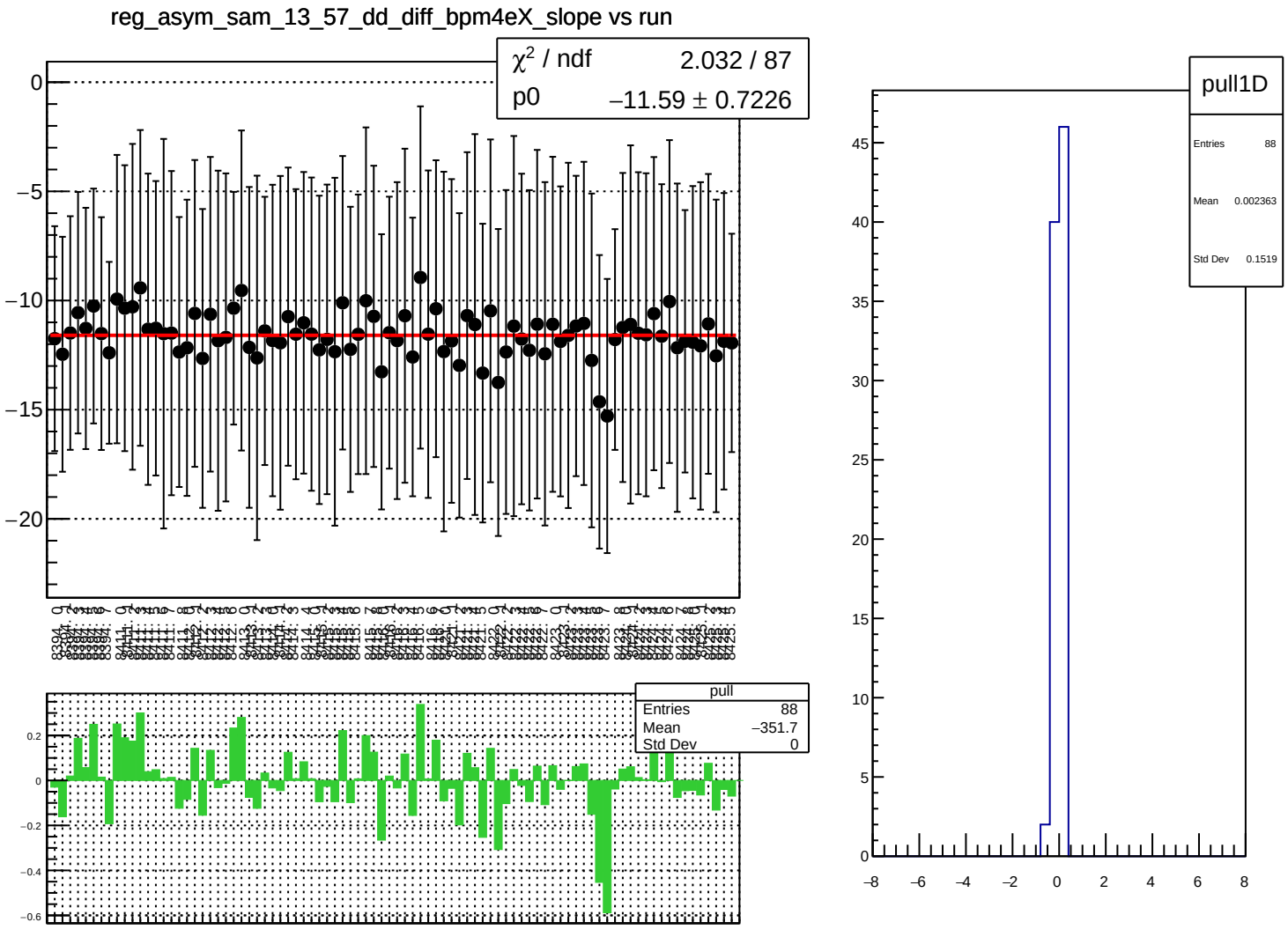

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 1.124 / 87
p0 0.5999 ± 0.2357
pull
Entries 88
Mean 346.8
Std Dev 0

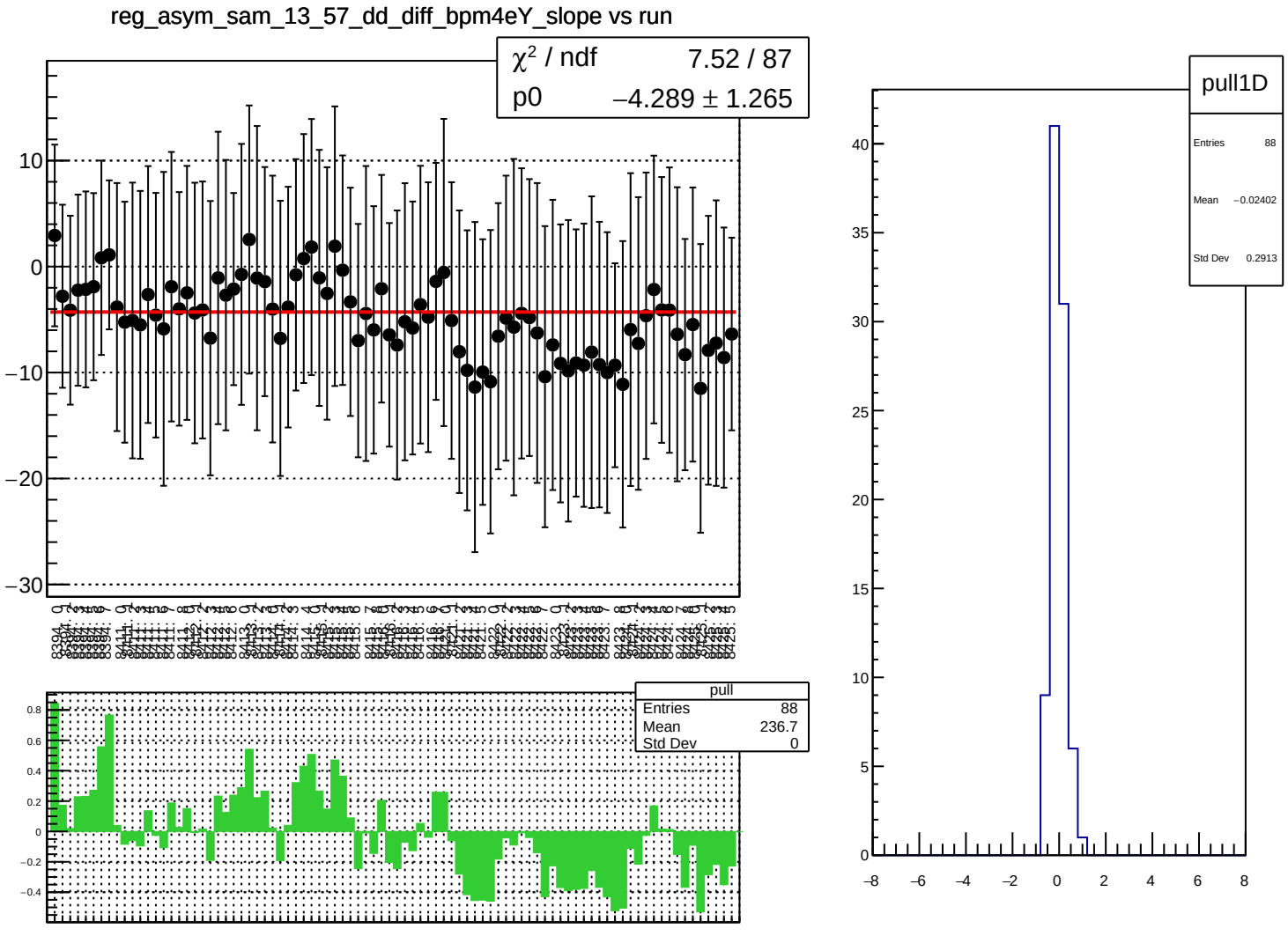

pull1D
Entries 88
Mean −0.004981
Std Dev 0.1129

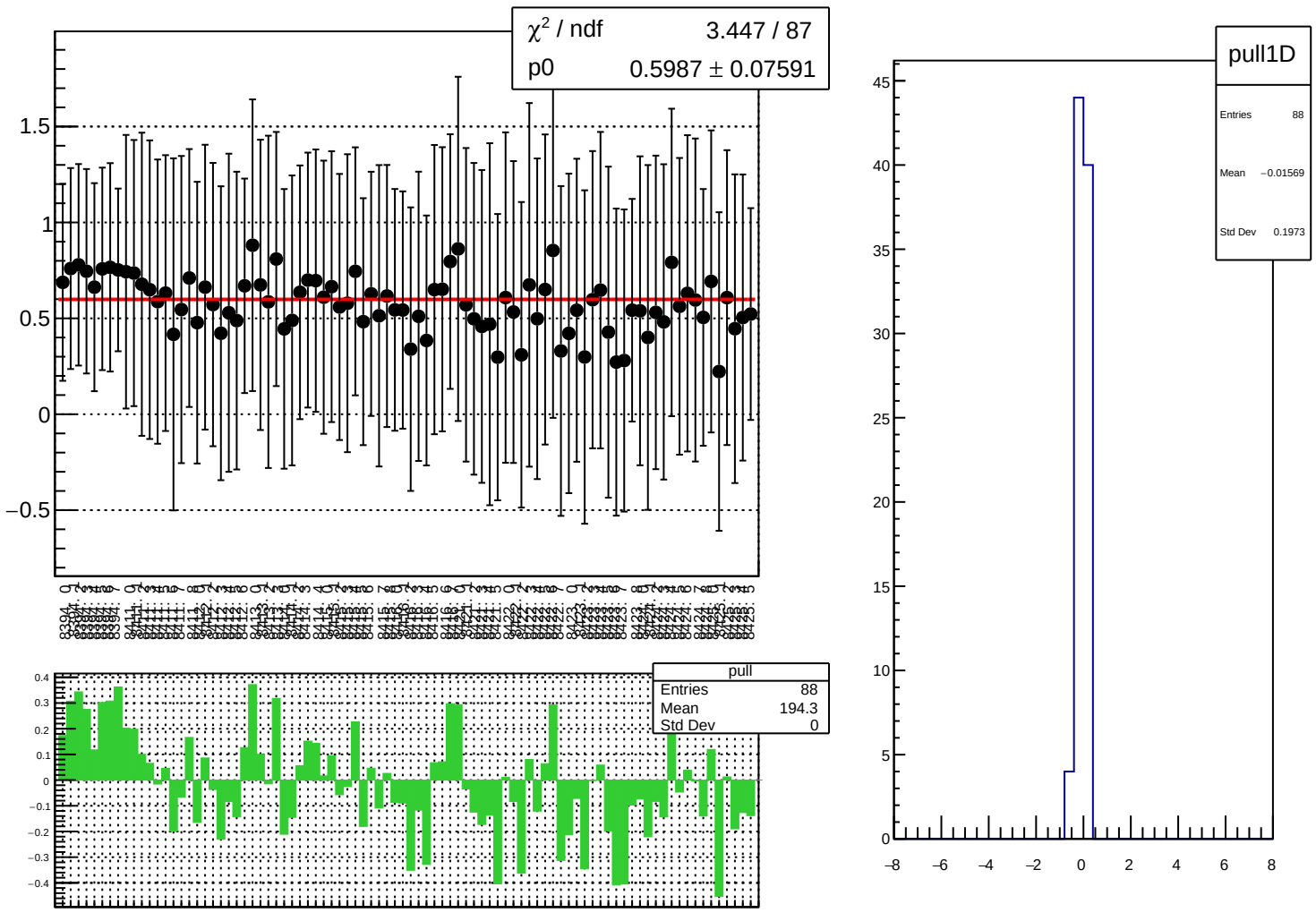

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 2.611 / 87
p0 −15.86 ± 0.6476
pull
Entries 88
Mean −583.1
Std Dev 0
pull1D
Entries 88
Mean −0.002682
Std Dev 0.1722

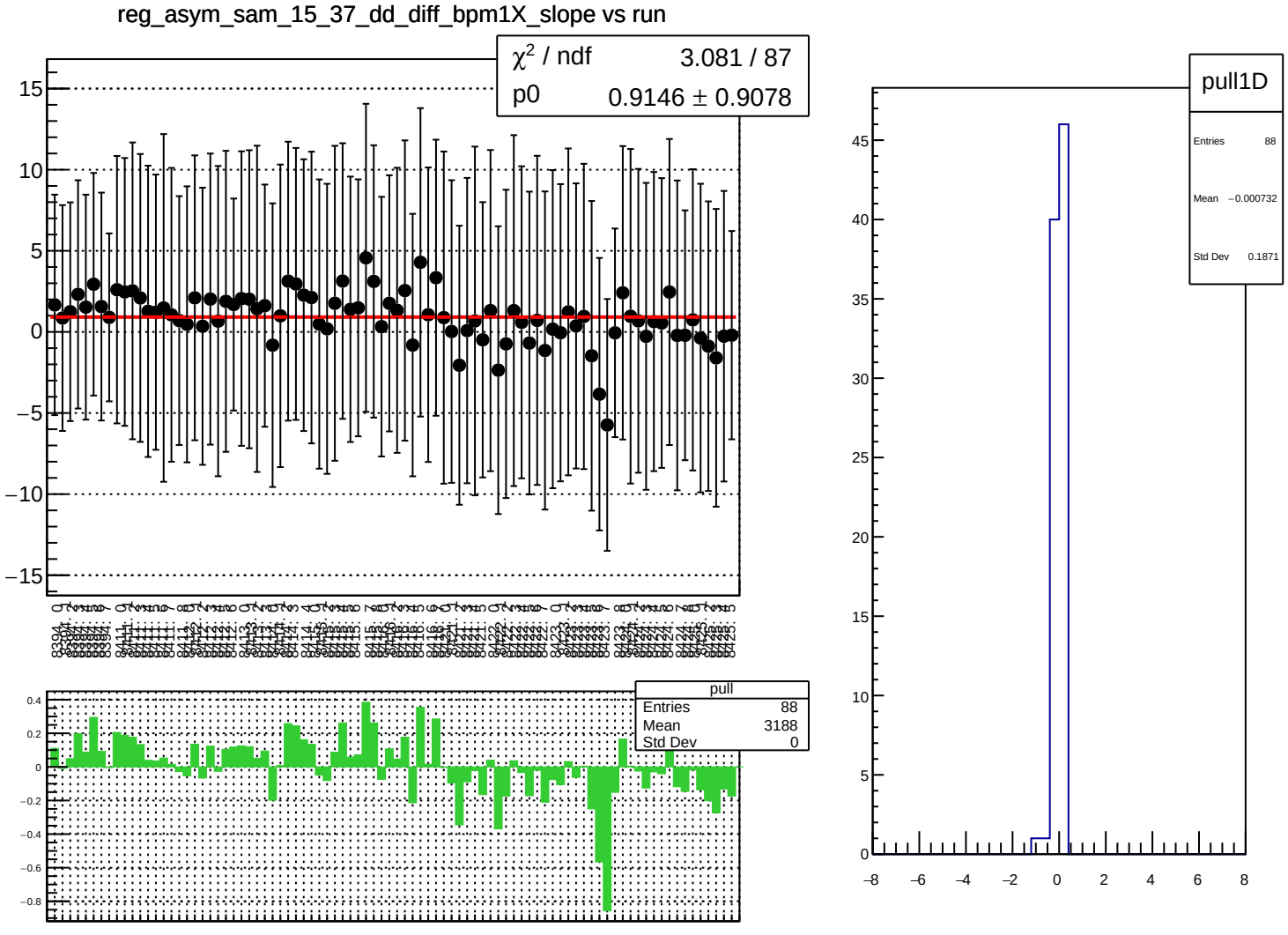

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.442 / 87
p0 −38.96 ± 1.206
pull
Entries 88
Mean 275.3
Std Dev 0

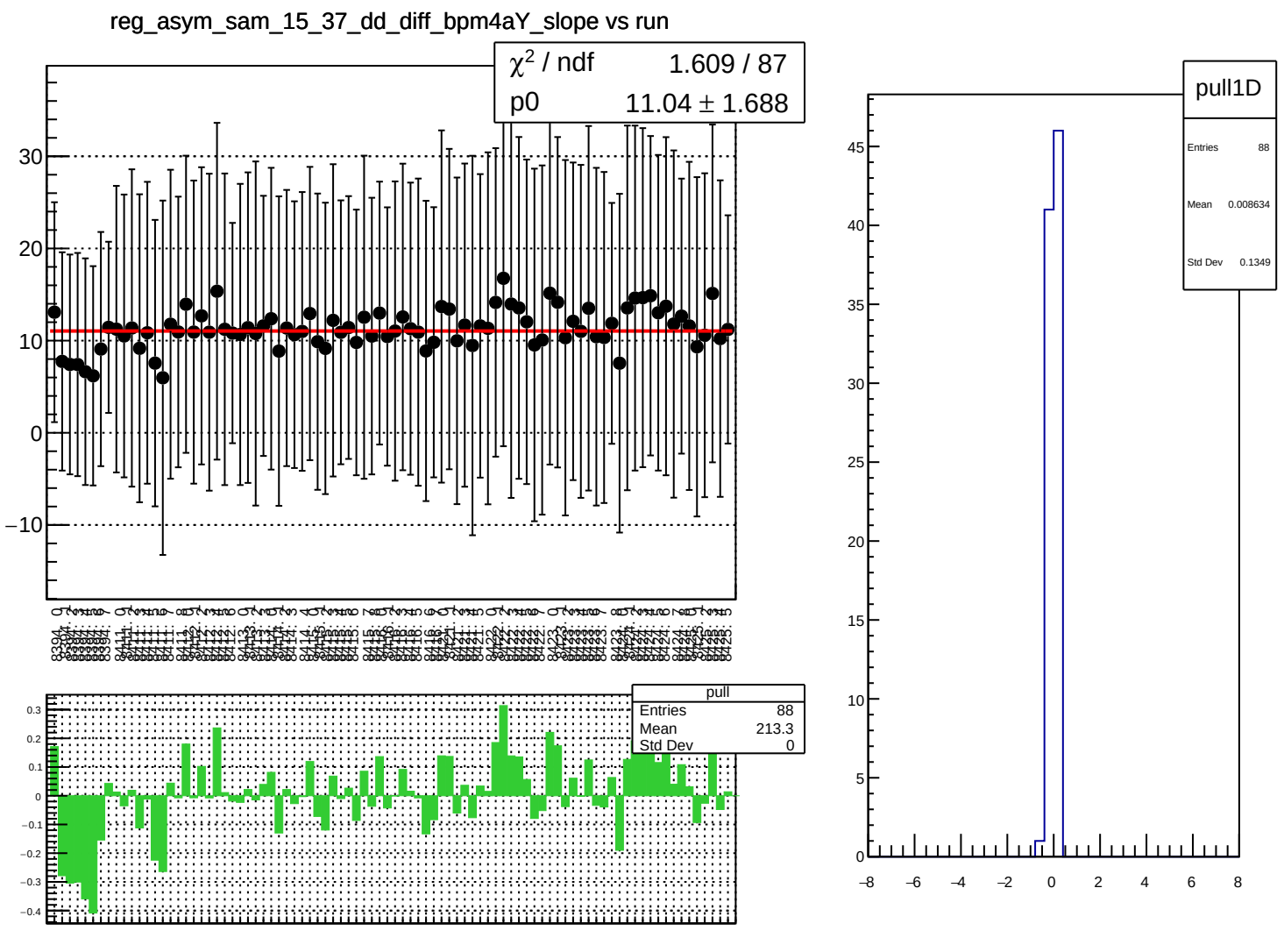

pull1D
Entries 88
Mean 0.01999
Std Dev 0.2901

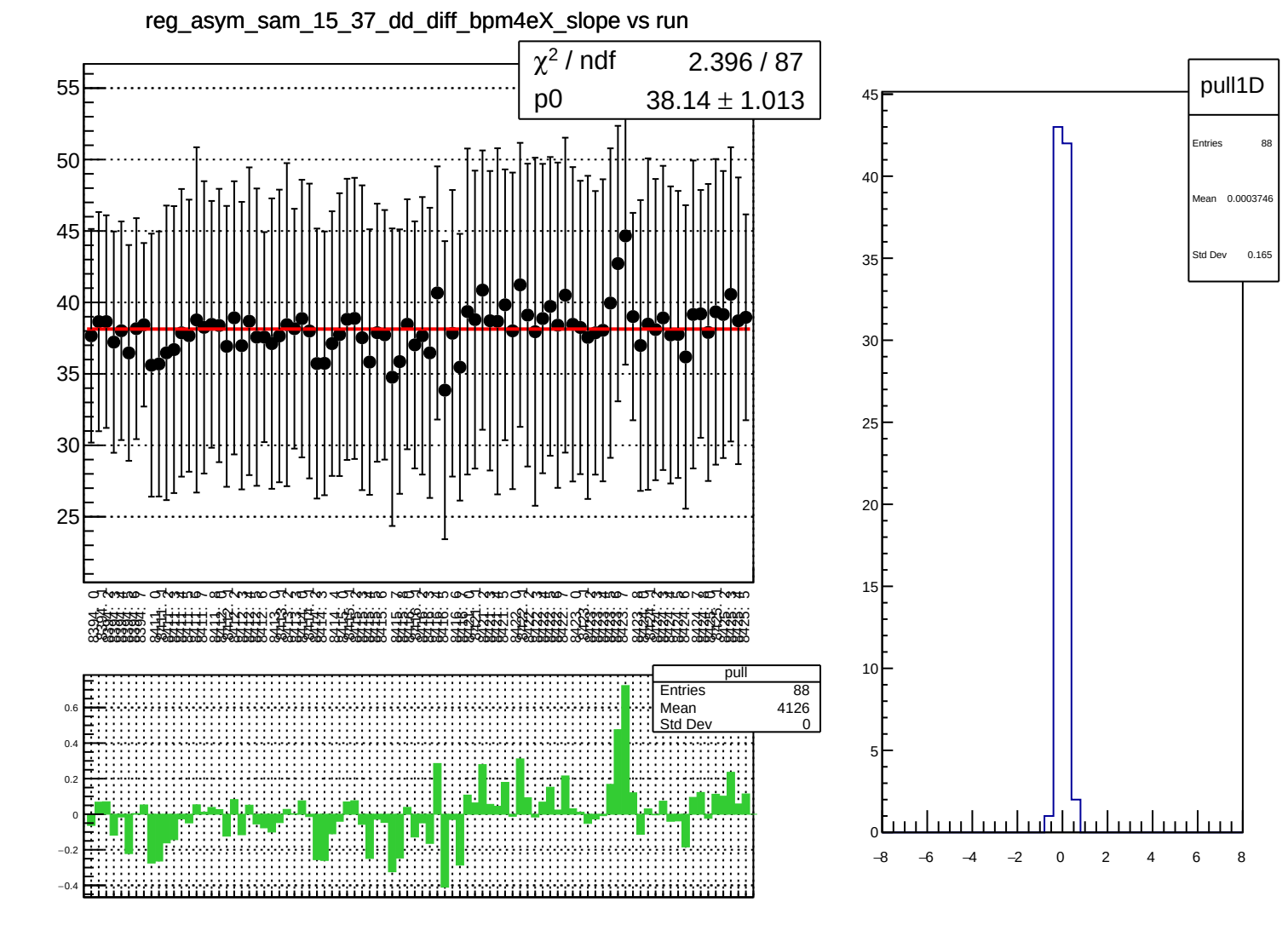

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.032 / 87
p0 −11.59 ± 0.7226
pull
Entries 88
Mean −351.7
Std Dev 0
pull1D
Entries 88
Mean 0.002363
Std Dev 0.1519

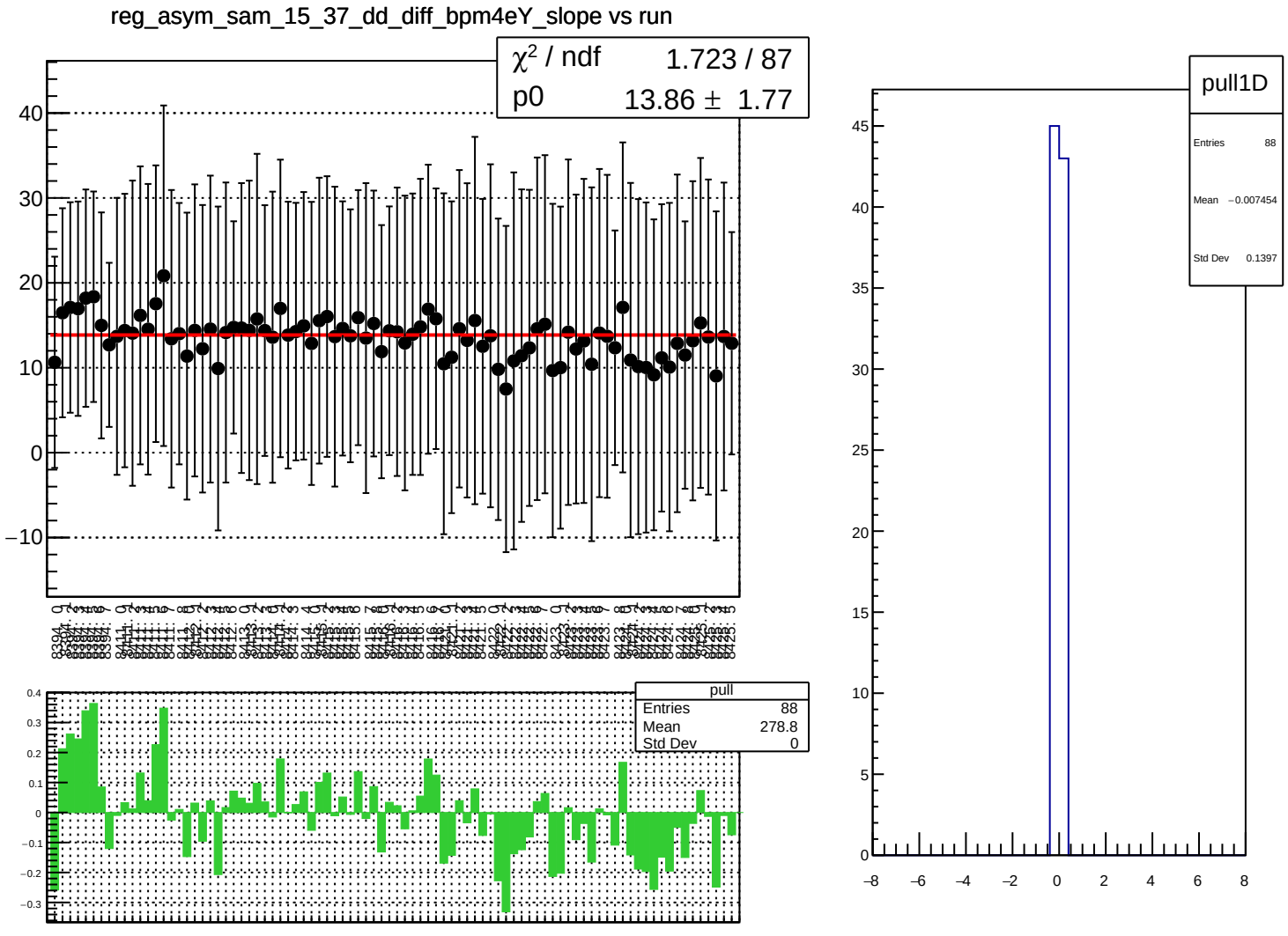

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.52 / 87
p0 −4.289 ± 1.265
10
0
−10
−20
−30
pull
Entries 88
Mean 236.7
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 88
Mean −0.02402
Std Dev 0.2913
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

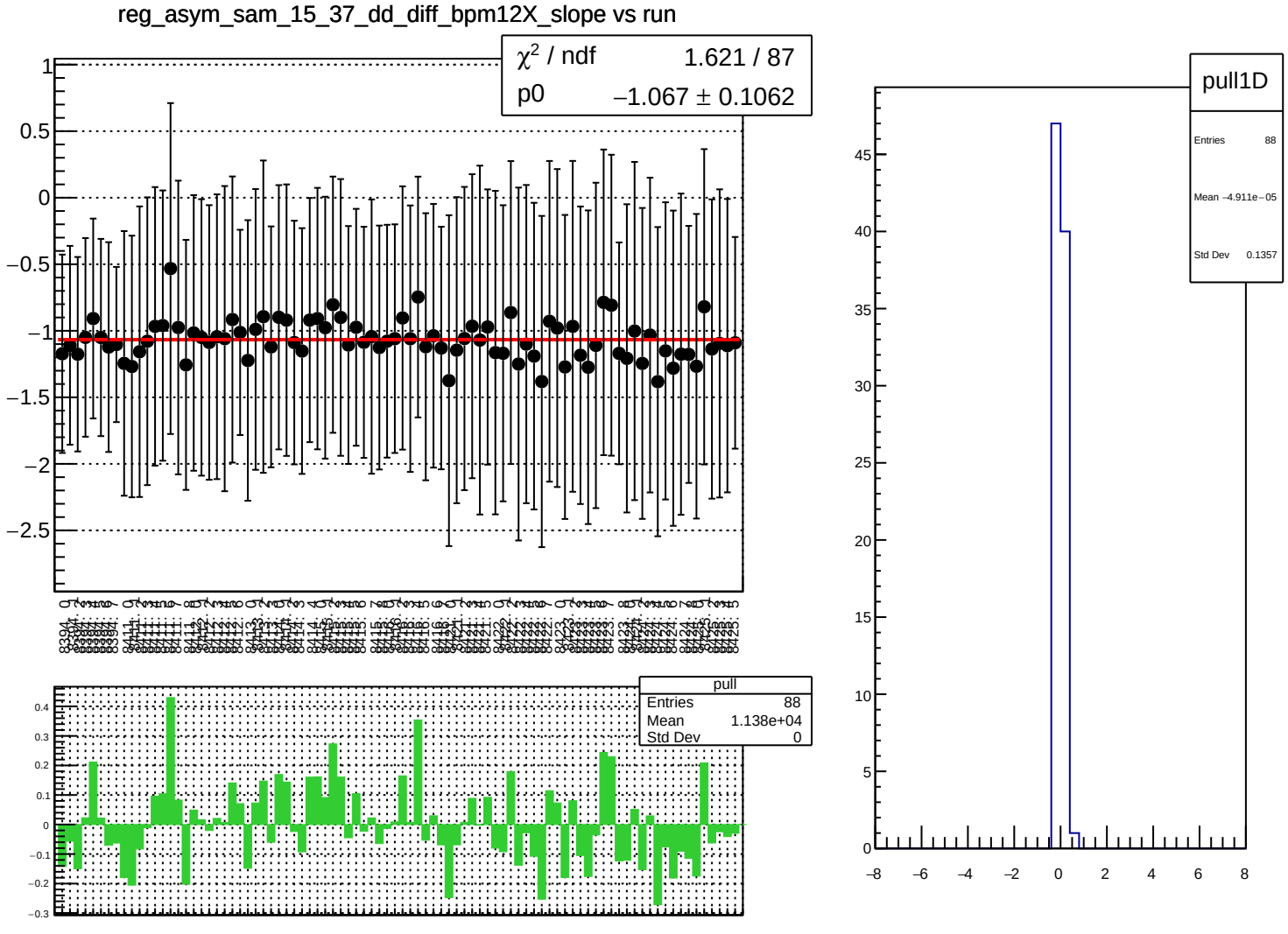

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 3.447 / 87
p0 0.5987 ± 0.07591
pull
Entries 88
Mean 194.3
Std Dev 0
pull1D
Entries 88
Mean −0.01569
Std Dev 0.1973

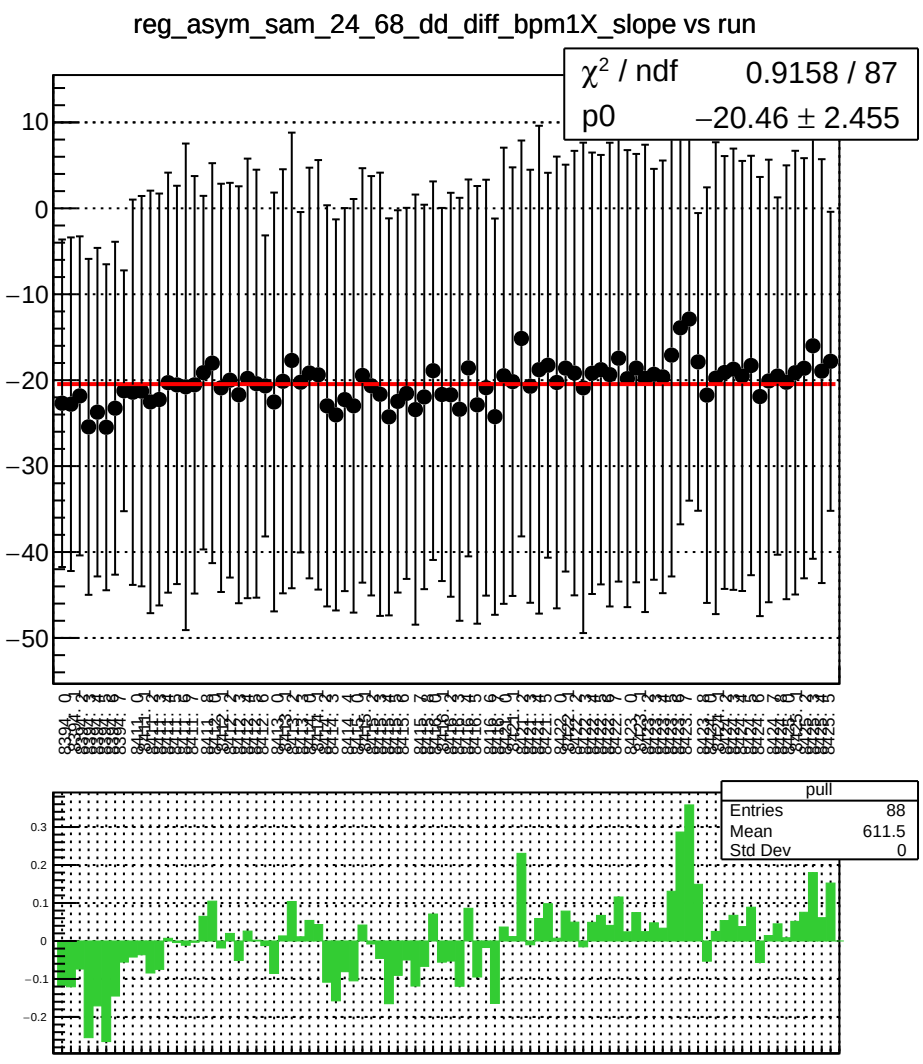

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 3.081 / 87
p0 0.9146 ± 0.9078
pull
Entries 88
Mean 3188
Std Dev 0
pull1D
Entries 88
Mean −0.000732
Std Dev 0.1871

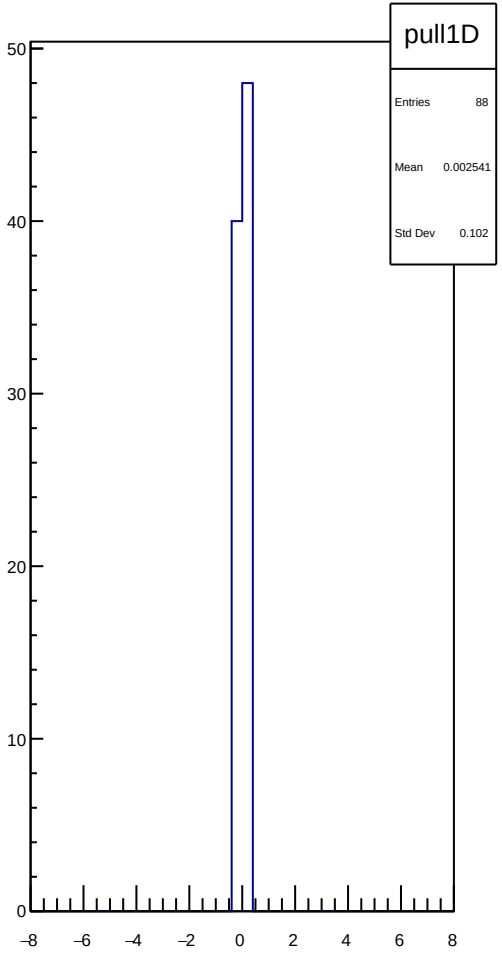

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.609 / 87
p0 11.04 ± 1.688
pull
Entries 88
Mean 213.3
Std Dev 0
pull1D
Entries 88
Mean 0.008634
Std Dev 0.1349

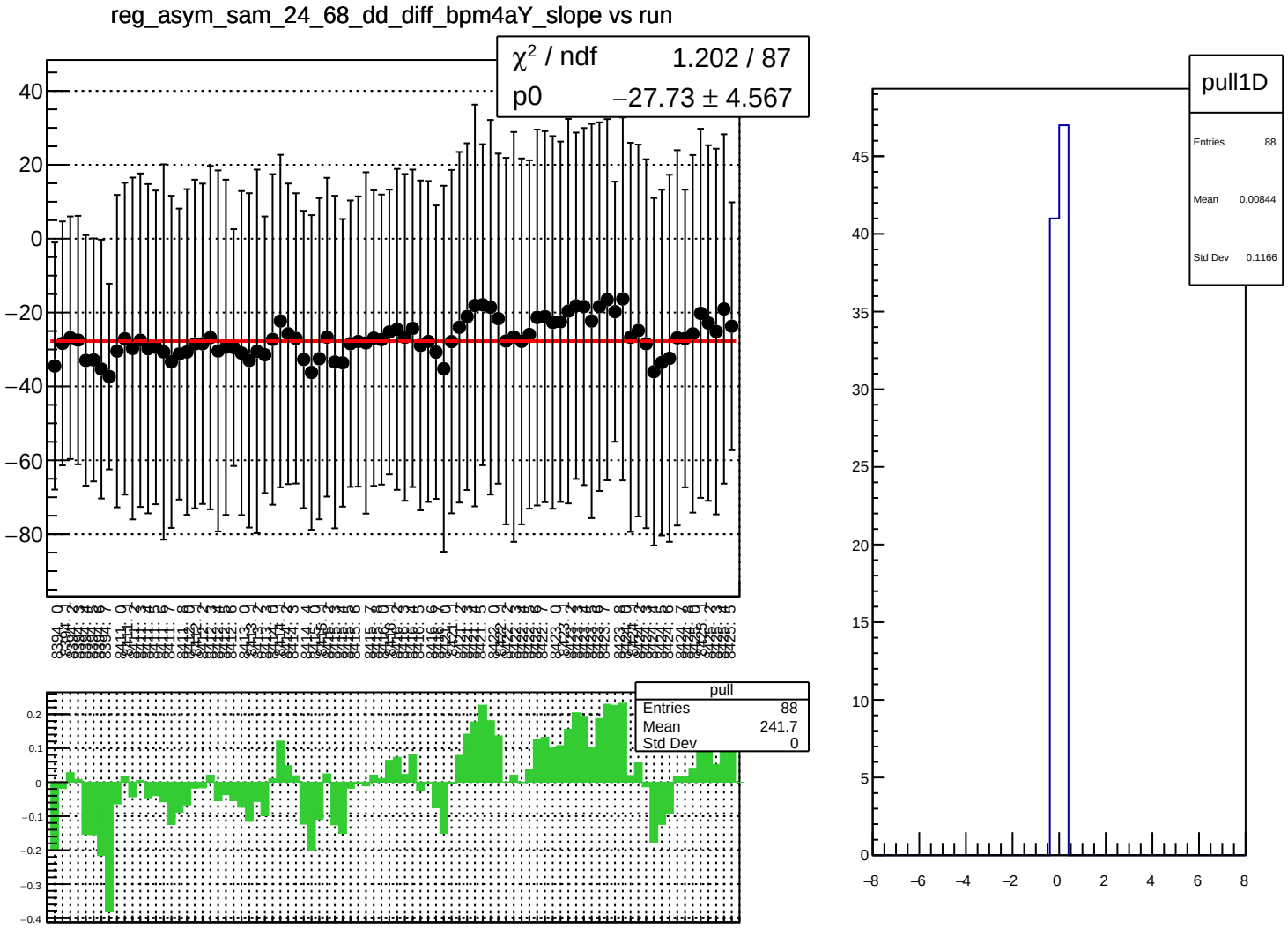

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.396 / 87
p0 38.14 ± 1.013
pull
Entries 88
Mean 4126
Std Dev 0
pull1D
Entries 88
Mean 0.0003746
Std Dev 0.165

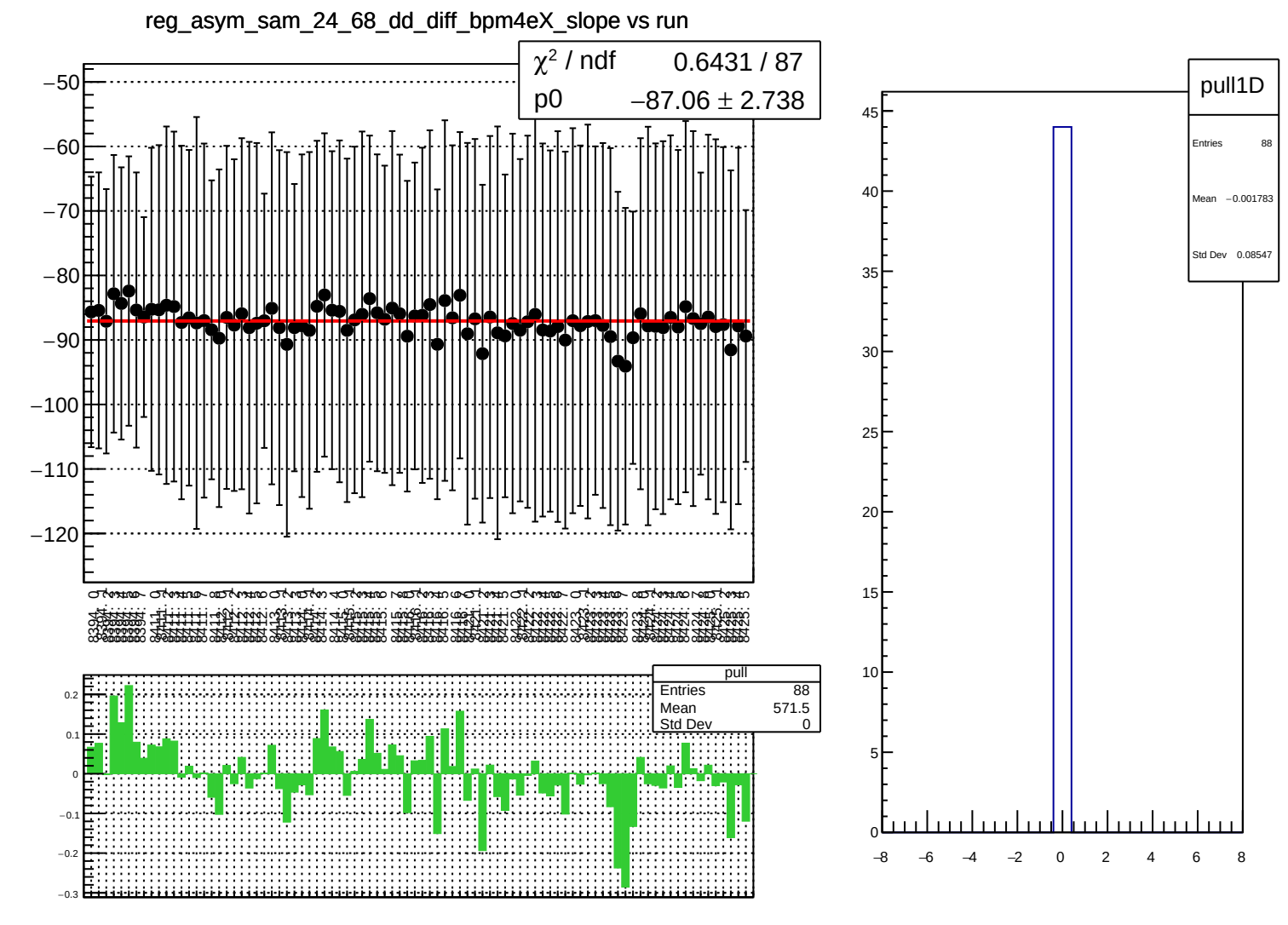

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.723 / 87
p0 13.86 ± 1.77
pull
Entries 88
Mean 278.8
Std Dev 0
pull1D
Entries 88
Mean −0.007454
Std Dev 0.1397

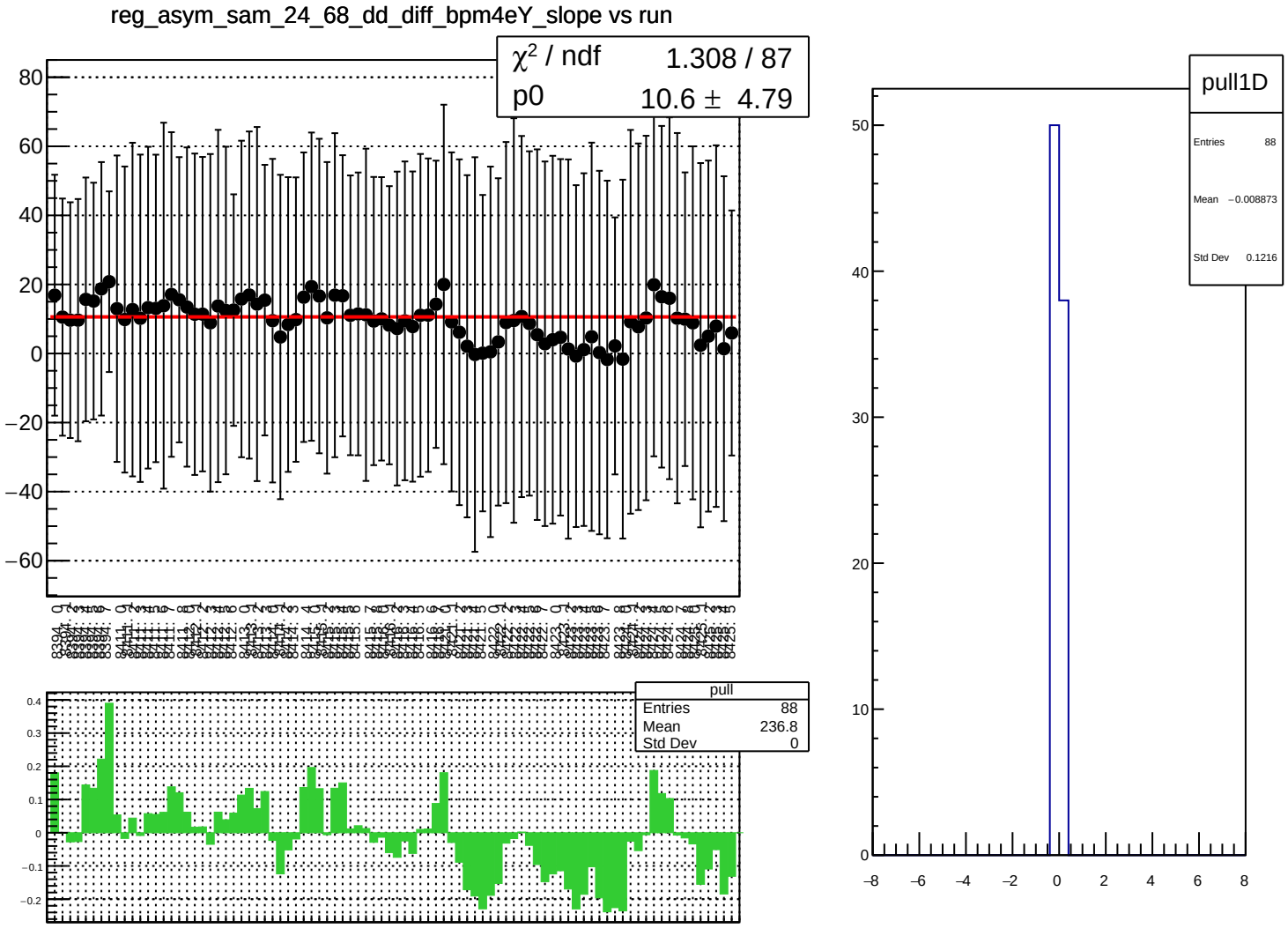

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 1.621 / 87
p0 −1.067 ± 0.1062
pull
Entries 88
Mean 1.138e+04
Std Dev 0
pull1D
Entries 88
Mean −4.911e−05
Std Dev 0.1357

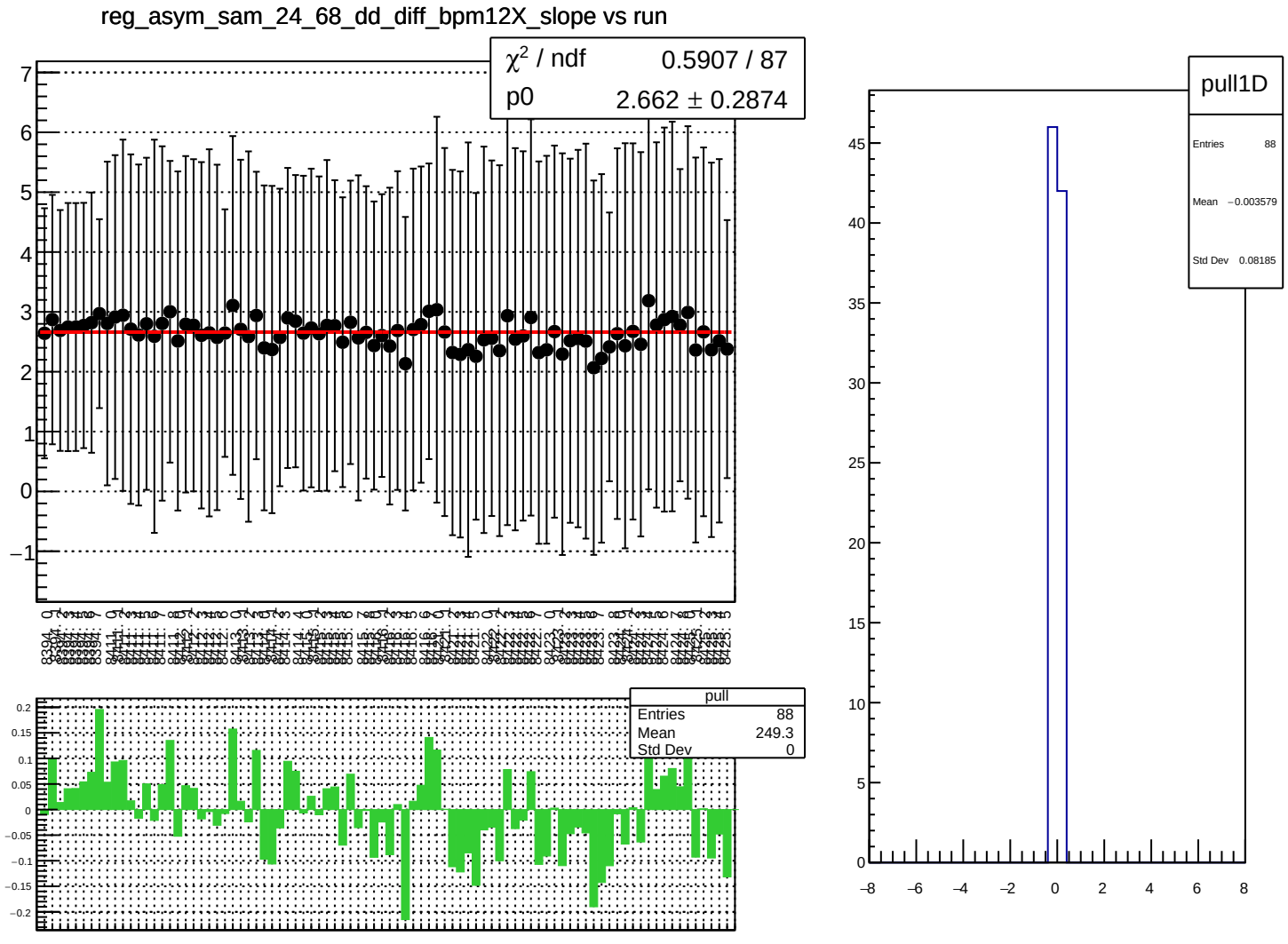

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 0.9158 / 87
p0 −20.46 ± 2.455
pull
Entries 88
Mean 611.5
Std Dev 0

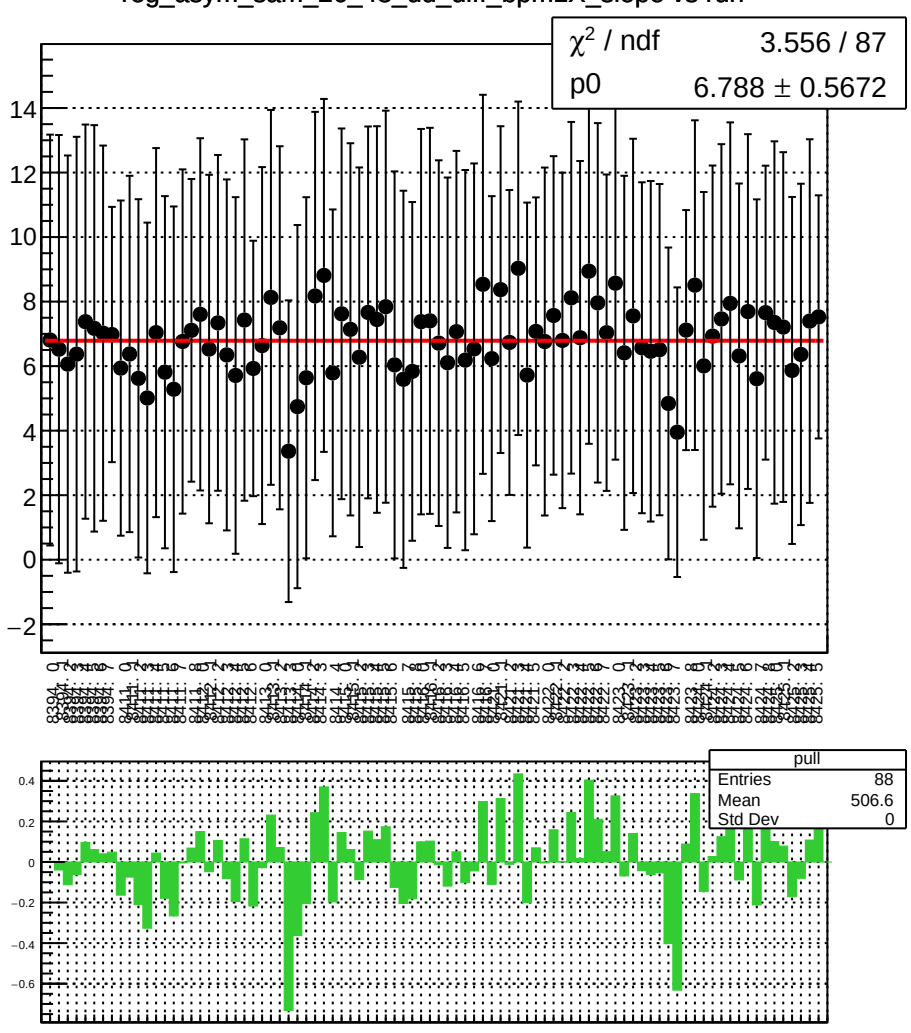

pull1D
Entries 88
Mean 0.002541
Std Dev 0.102

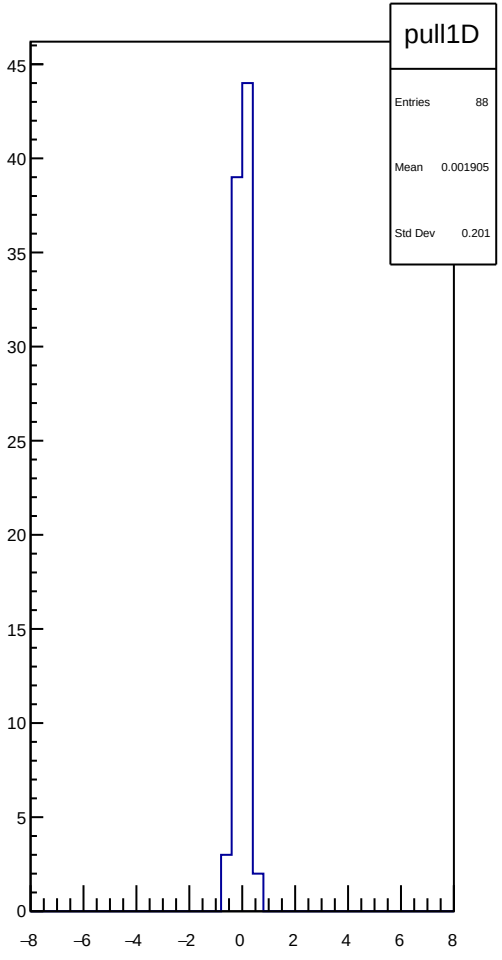

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.202 / 87
p0 −27.73 ± 4.567
pull
Entries 88
Mean 241.7
Std Dev 0
pull1D
Entries 88
Mean 0.00844
Std Dev 0.1166

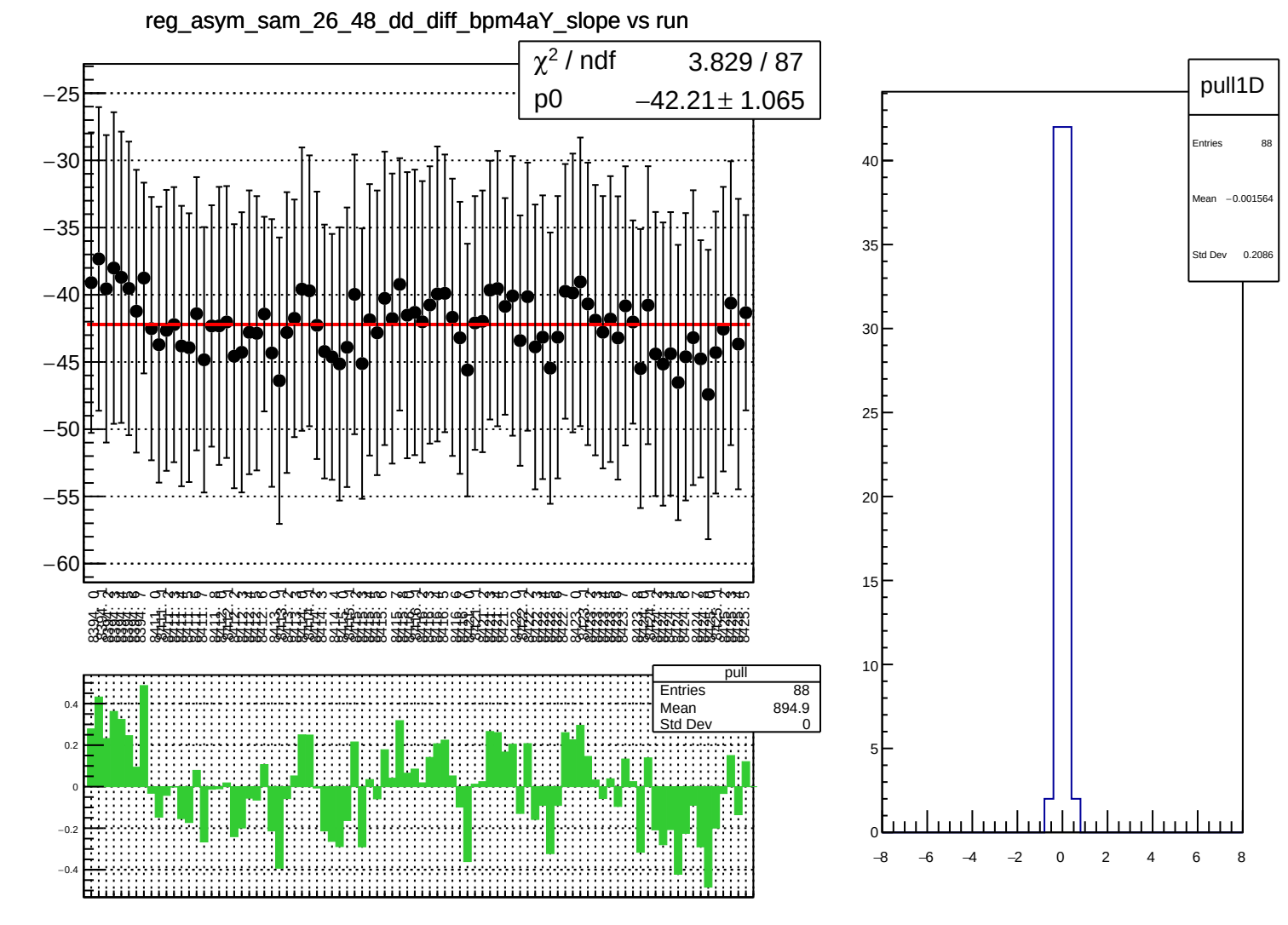

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.6431 / 87
p0 −87.06 ± 2.738
pull
Entries 88
Mean 571.5
Std Dev 0
pull1D
Entries 88
Mean −0.001783
Std Dev 0.08547

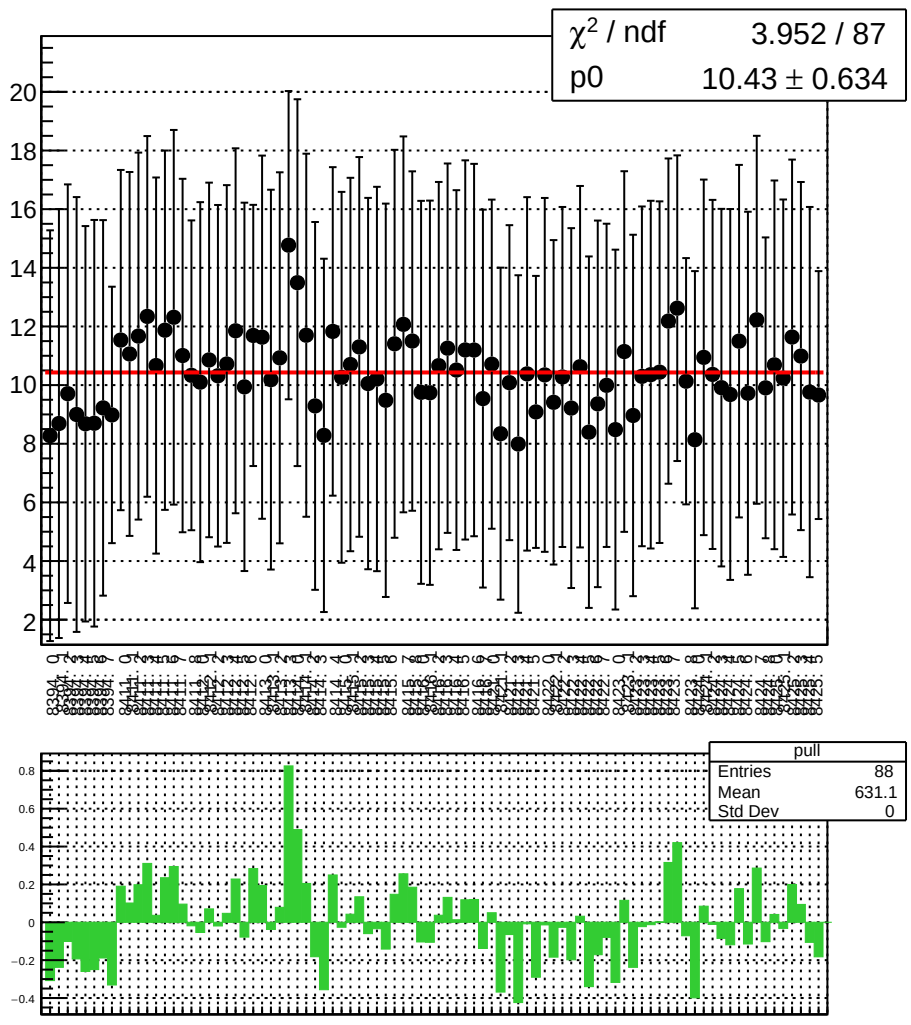

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.308 / 87
p0 10.6 ± 4.79
pull
Entries 88
Mean 236.8
Std Dev 0
pull1D
Entries 88
Mean −0.008873
Std Dev 0.1216

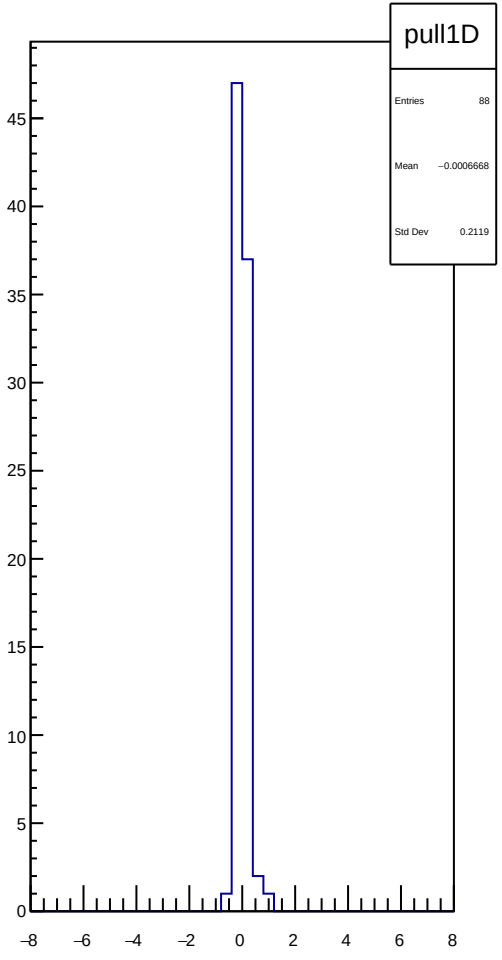

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 0.5907 / 87
p0 2.662 ± 0.2874
pull
Entries 88
Mean 249.3
Std Dev 0
pull1D
Entries 88
Mean −0.003579
Std Dev 0.08185

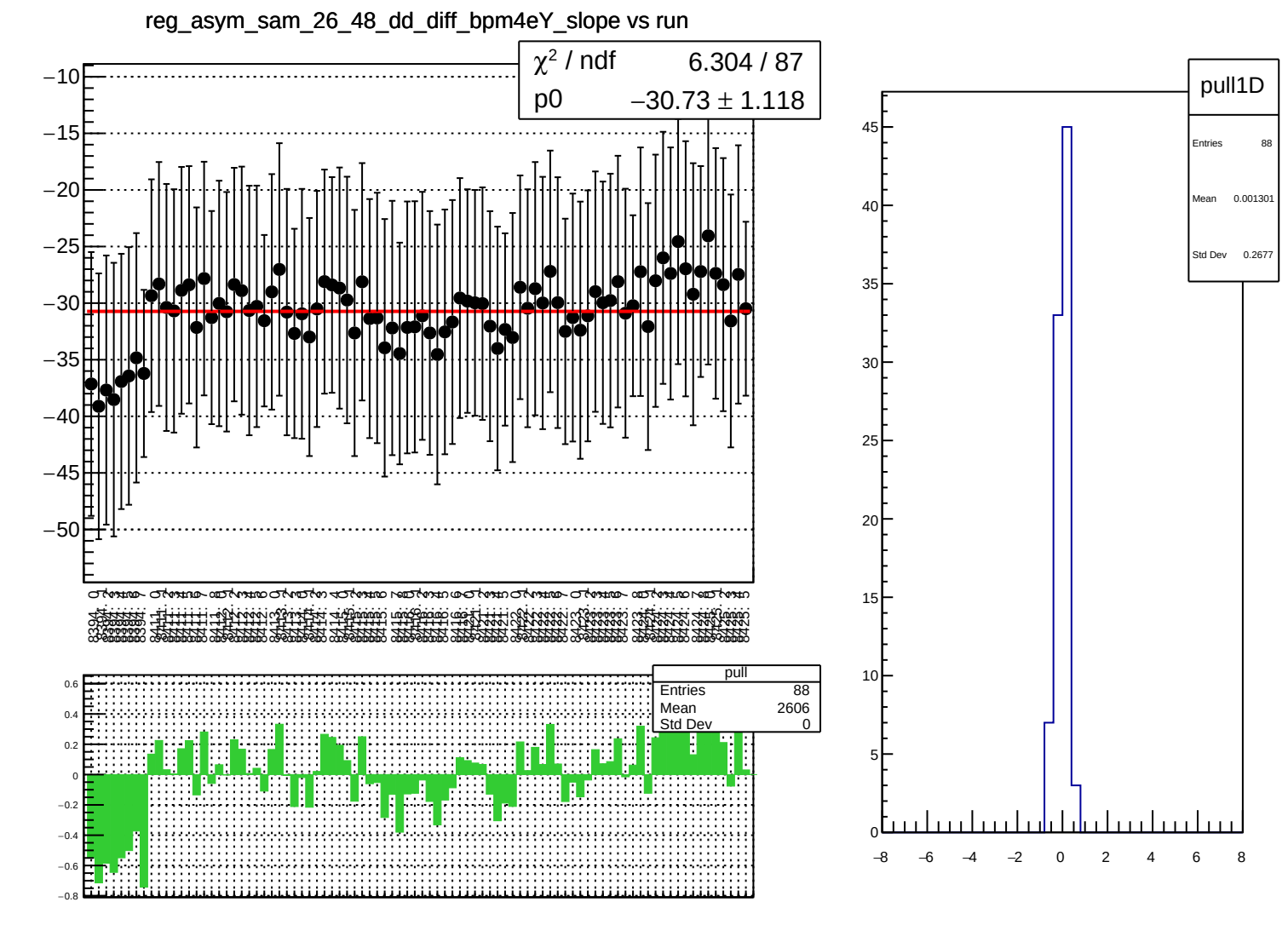

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 3.556 / 87
p0 6.788 ± 0.5672
pull
Entries 88
Mean 506.6
Std Dev 0

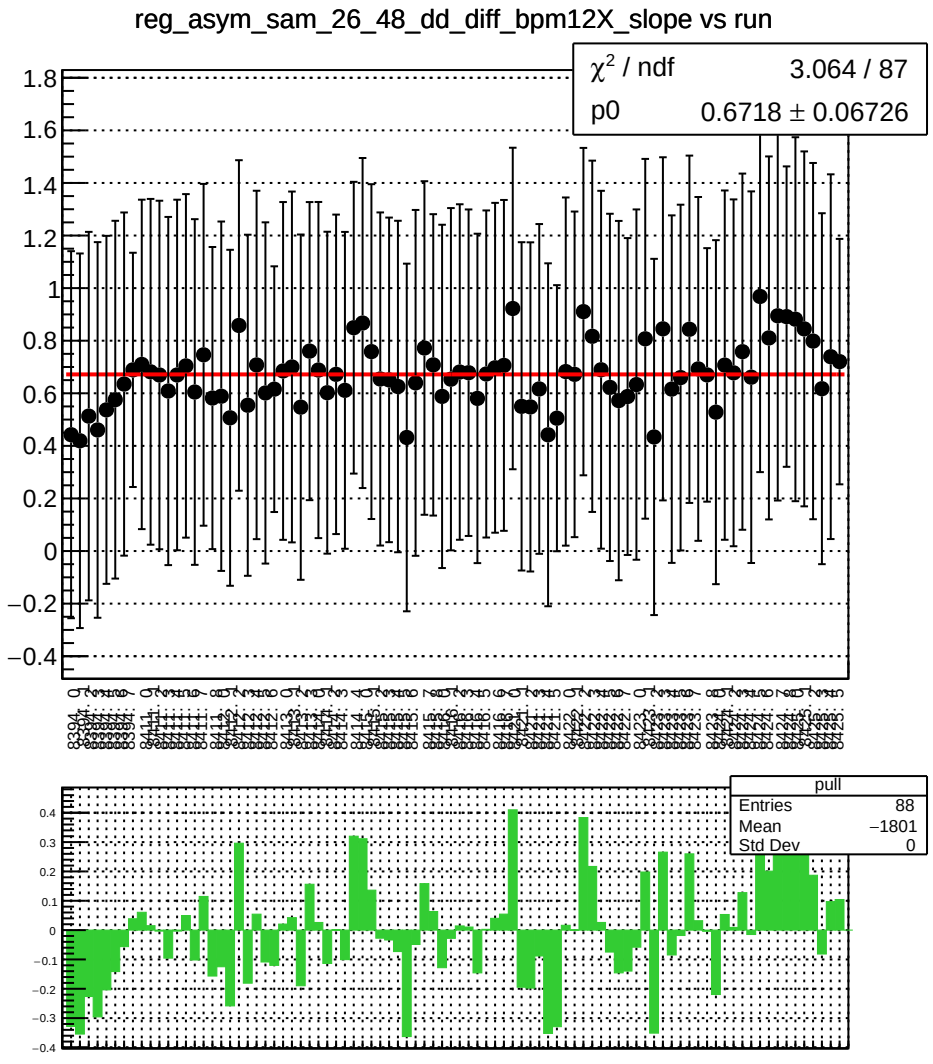

pull1D
Entries 88
Mean 0.001905
Std Dev 0.201

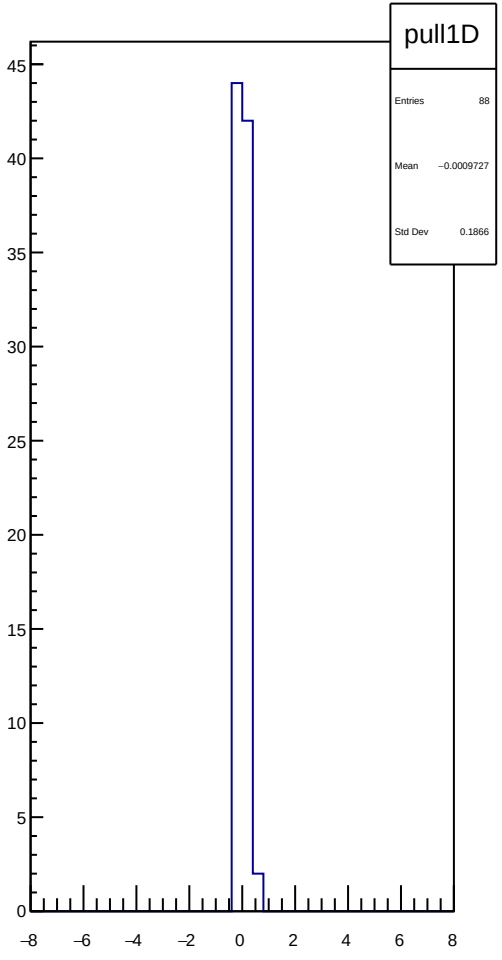

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.829 / 87
p0 −42.21 ± 1.065
pull
Entries 88
Mean 894.9
Std Dev 0
pull1D
Entries 88
Mean −0.001564
Std Dev 0.2086

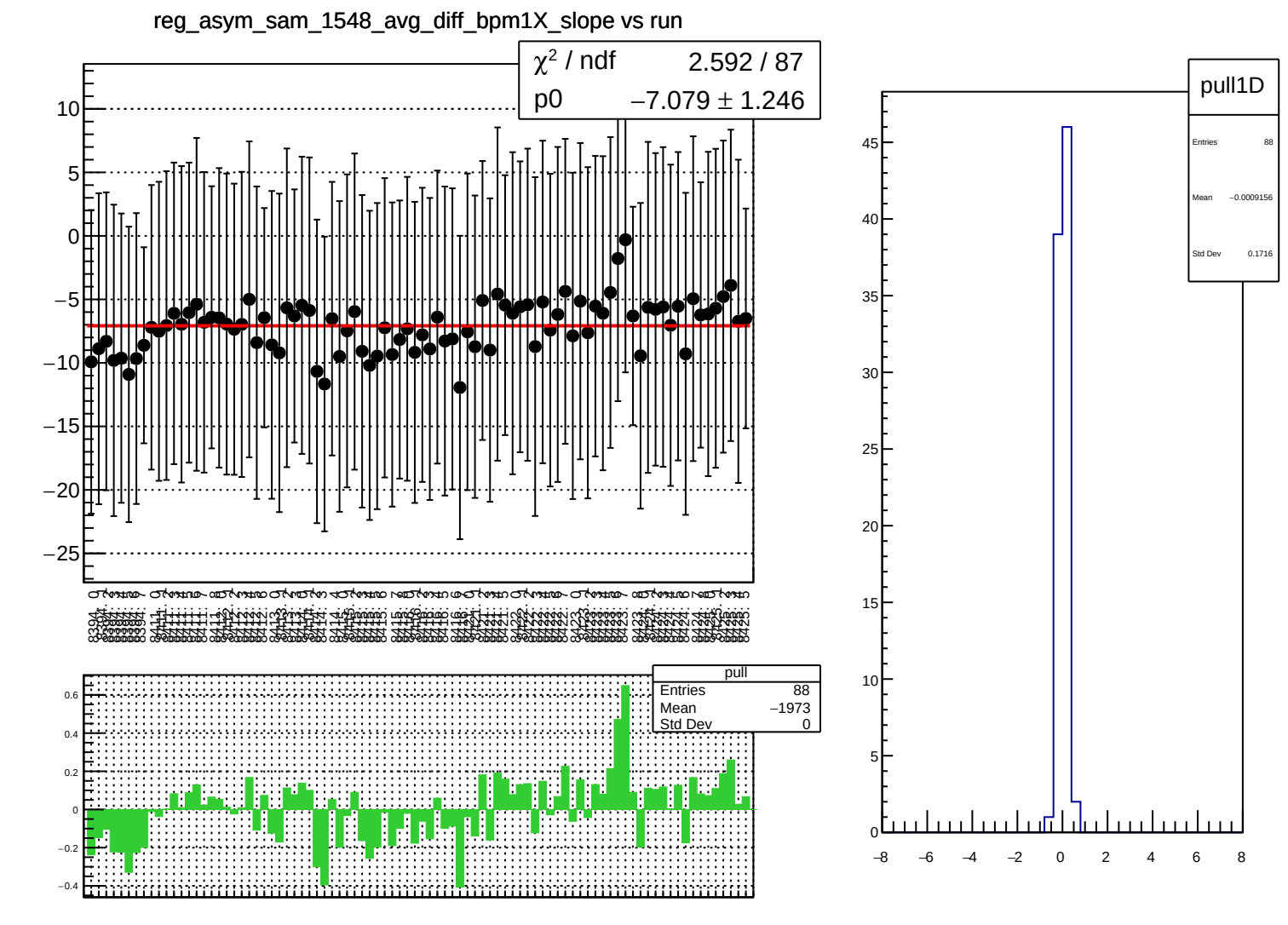

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.952 / 87
p0 10.43 ± 0.634
pull
Entries 88
Mean 631.1
Std Dev 0

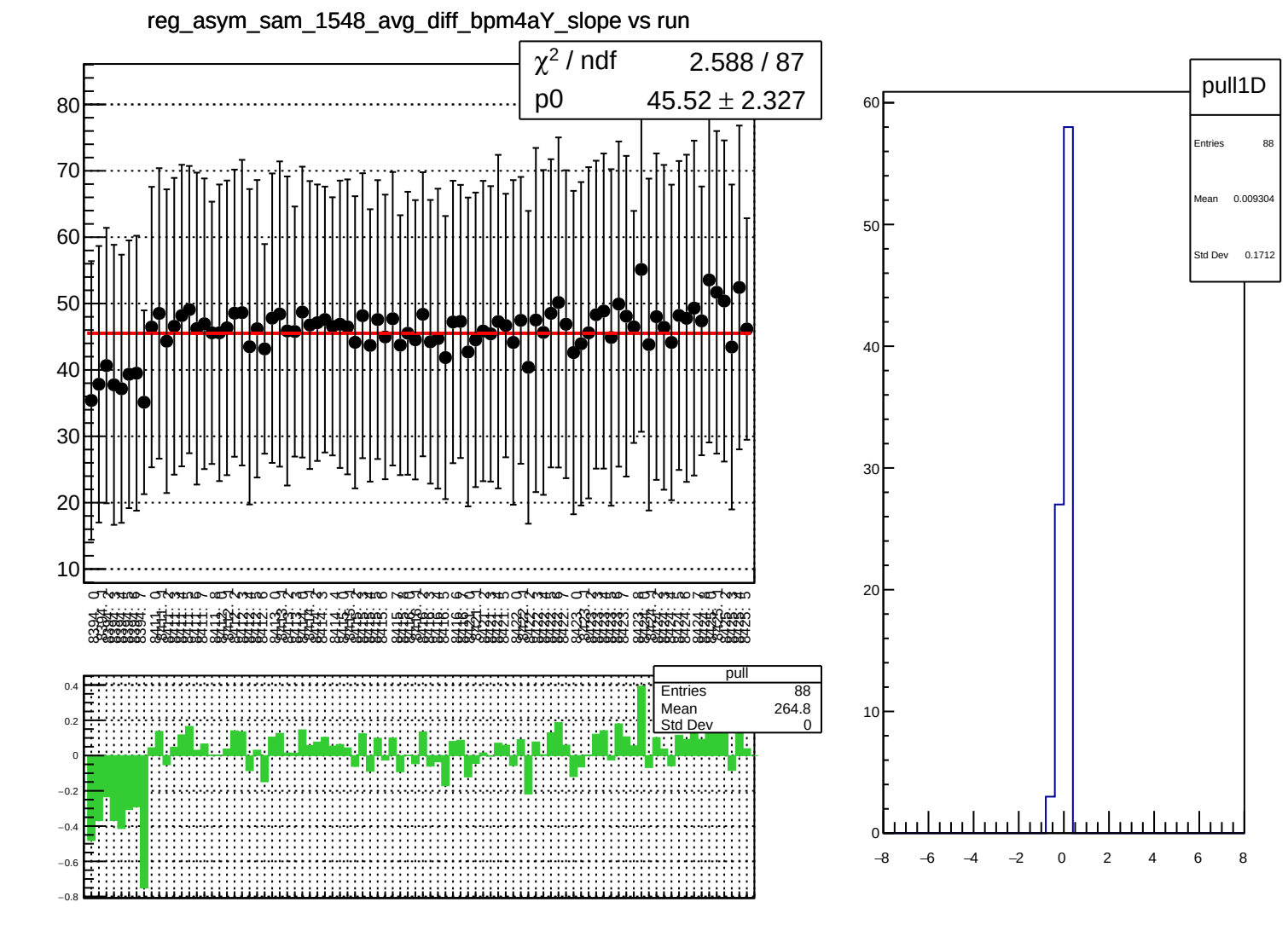

pull1D
Entries 88
Mean −0.0006668
Std Dev 0.2119

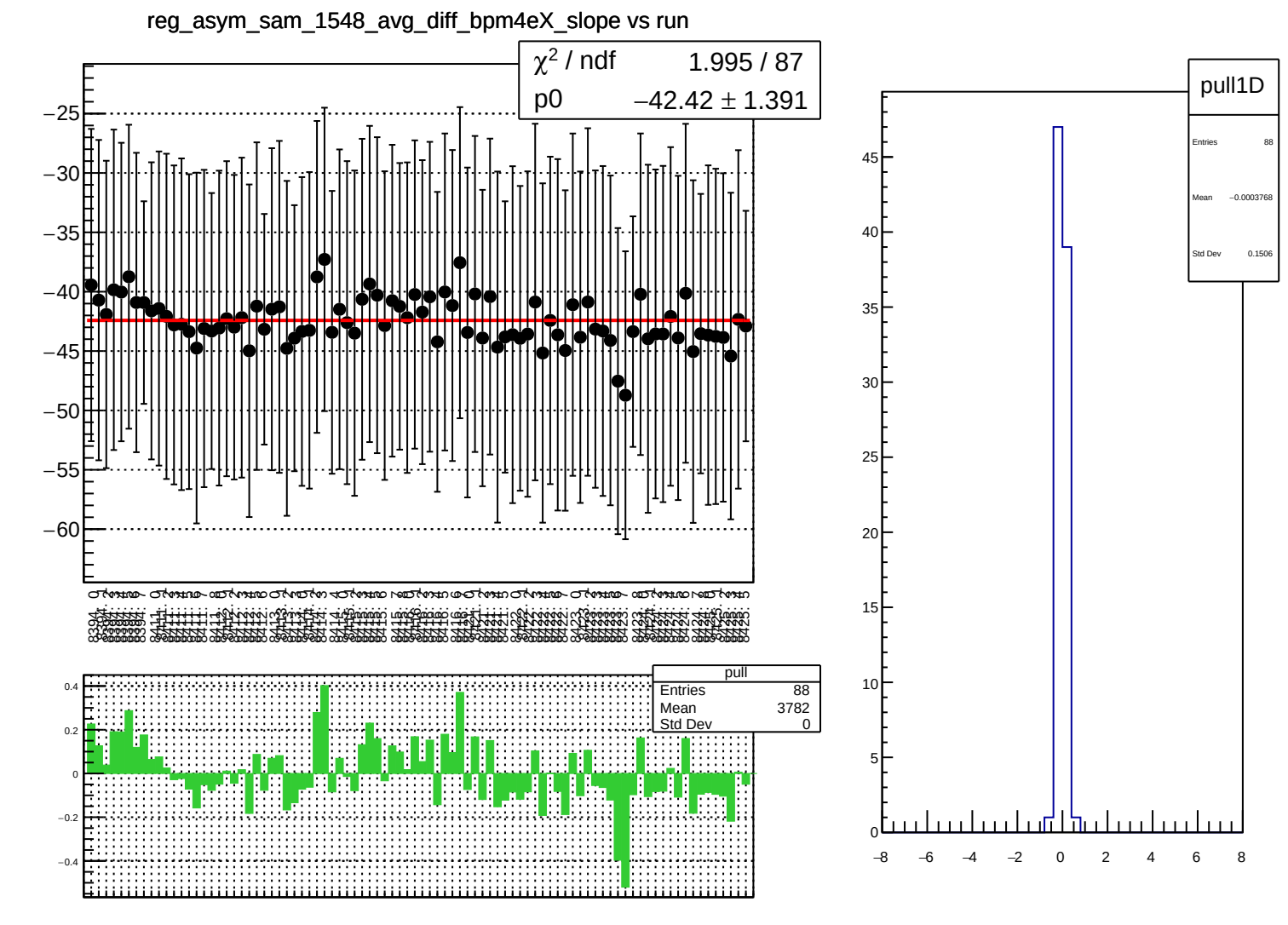

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.304 / 87
p0 −30.73 ± 1.118
pull
Entries 88
Mean 2606
Std Dev 0
pull1D
Entries 88
Mean 0.001301
Std Dev 0.2677

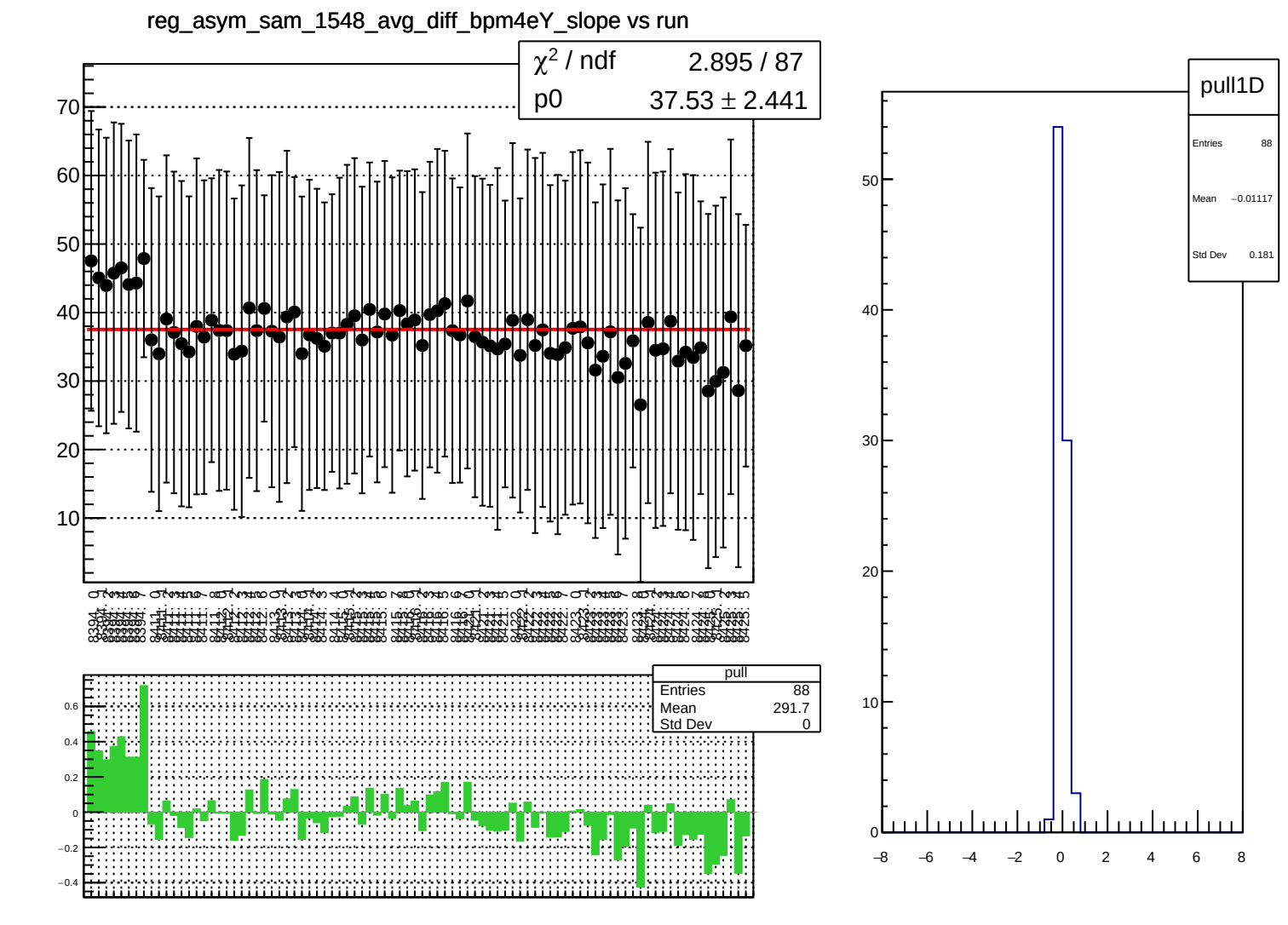

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 3.064 / 87
p0 0.6718 ± 0.06726
pull
Entries 88
Mean −1801
Std Dev 0

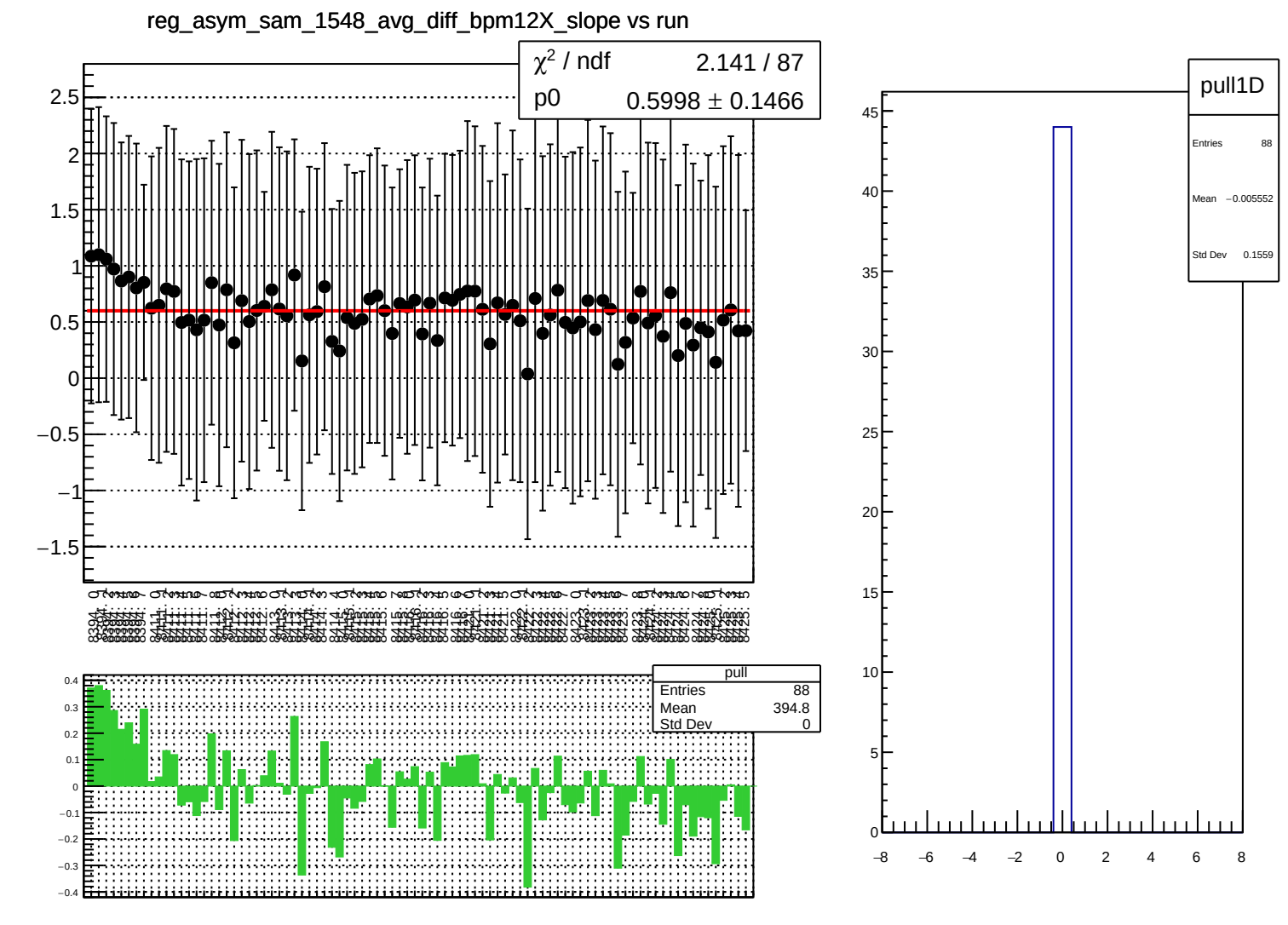

pull1D
Entries 88
Mean −0.0009727
Std Dev 0.1866

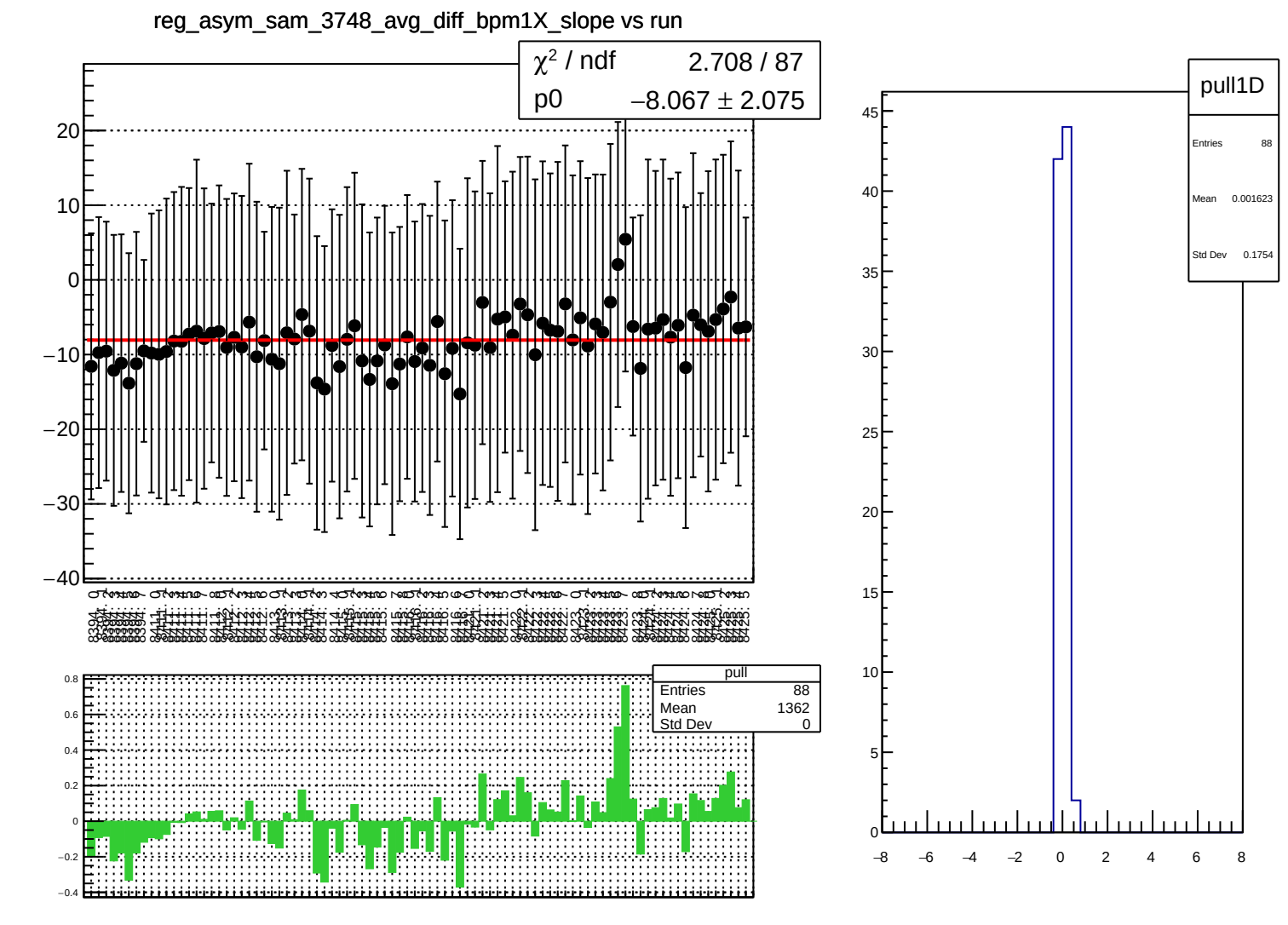

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 2.592 / 87
p0 −7.079 ± 1.246
pull
Entries 88
Mean −1973
Std Dev 0
pull1D
Entries 88
Mean −0.0009156
Std Dev 0.1716

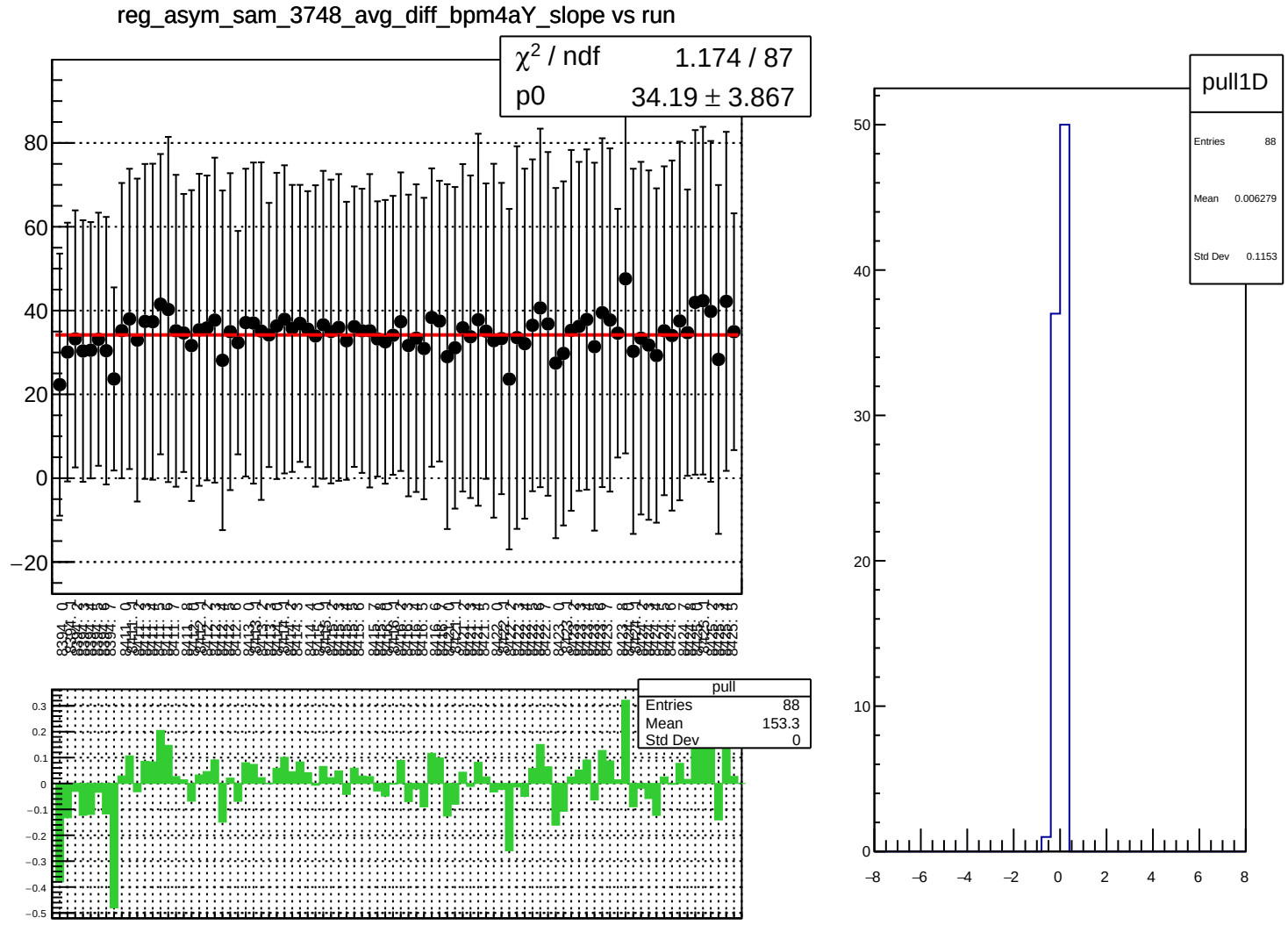

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.588 / 87
p0 45.52 ± 2.327
pull
Entries 88
Mean 264.8
Std Dev 0
pull1D
Entries 88
Mean 0.009304
Std Dev 0.1712

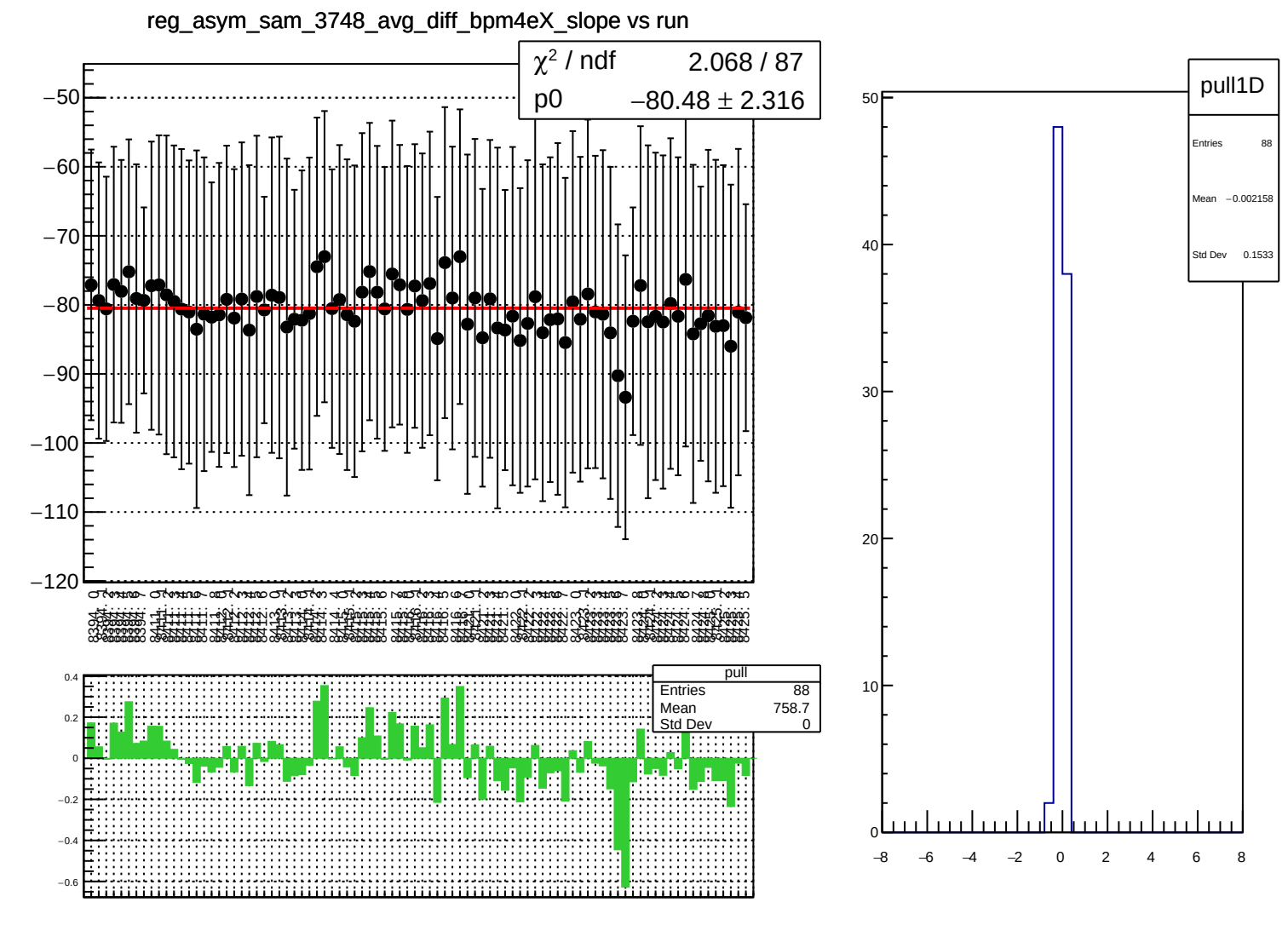

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.995 / 87
p0 −42.42 ± 1.391
pull
Entries 88
Mean 3782
Std Dev 0
pull1D
Entries 88
Mean −0.0003768
Std Dev 0.1506

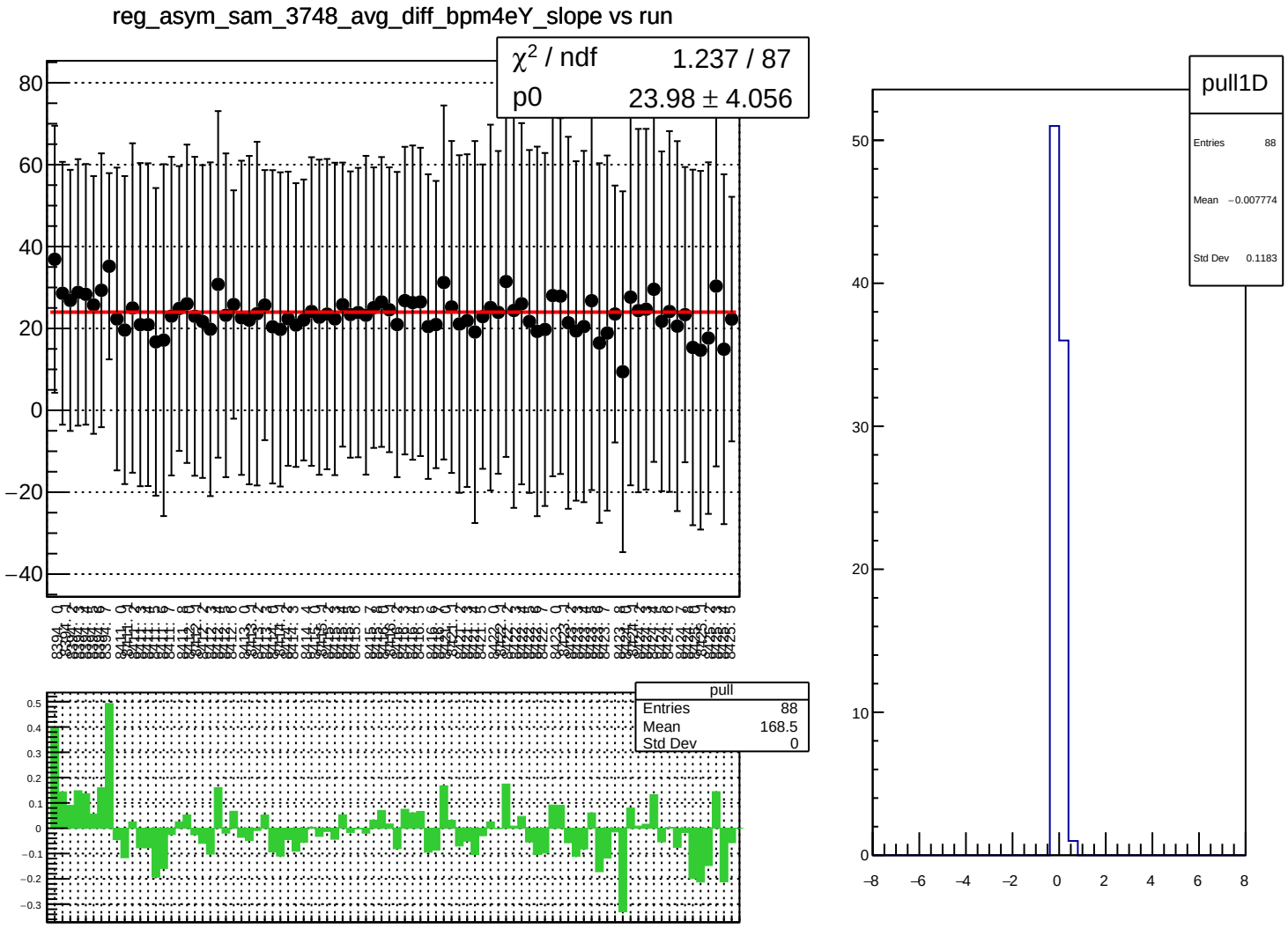

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.895 / 87
p0 37.53 ± 2.441
pull
Entries 88
Mean 291.7
Std Dev 0
pull1D
Entries 88
Mean −0.01117
Std Dev 0.181

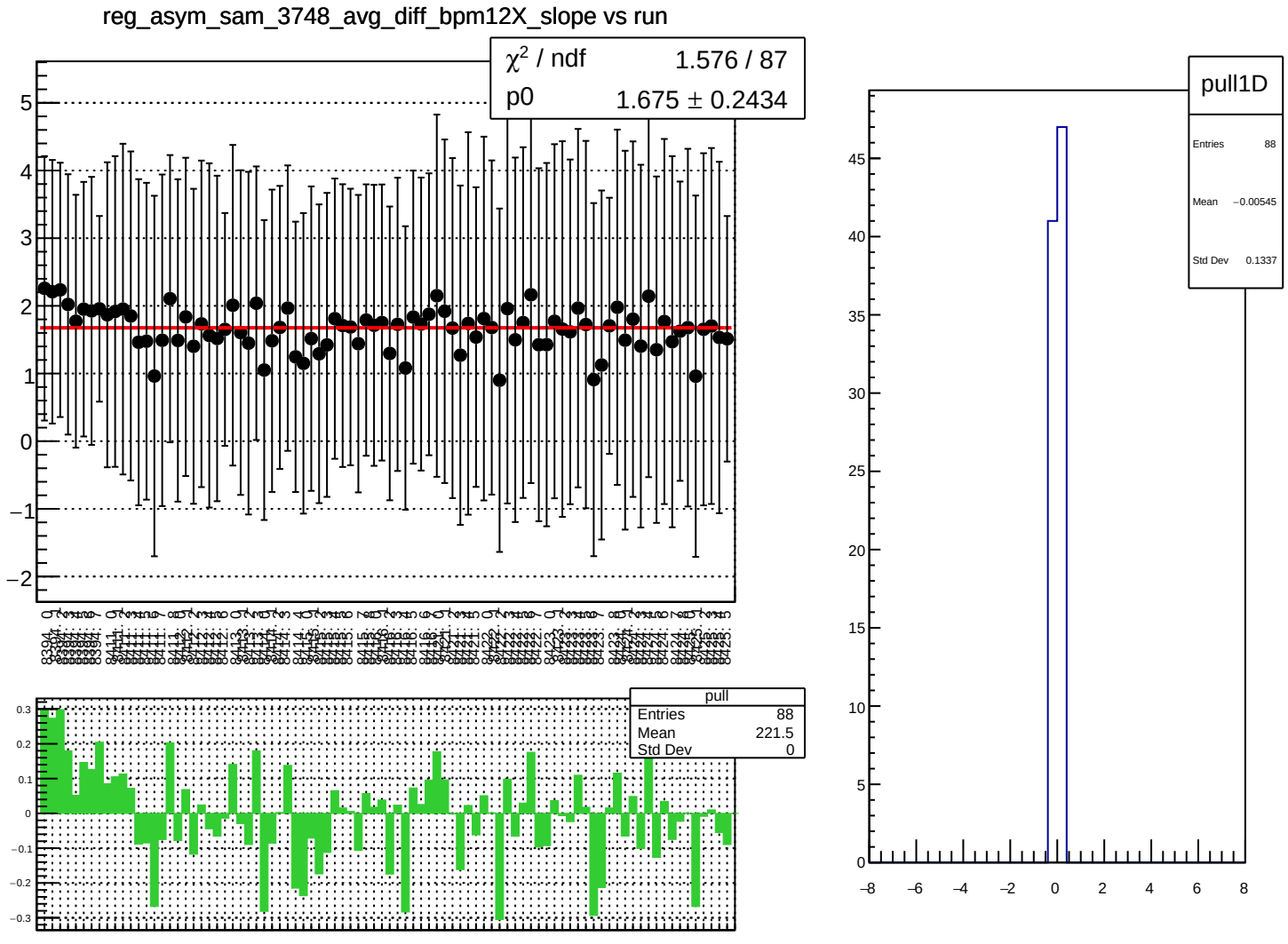

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 2.141 / 87
p0 0.5998 ± 0.1466
pull
Entries 88
Mean 394.8
Std Dev 0
pull1D
Entries 88
Mean −0.005552
Std Dev 0.1559

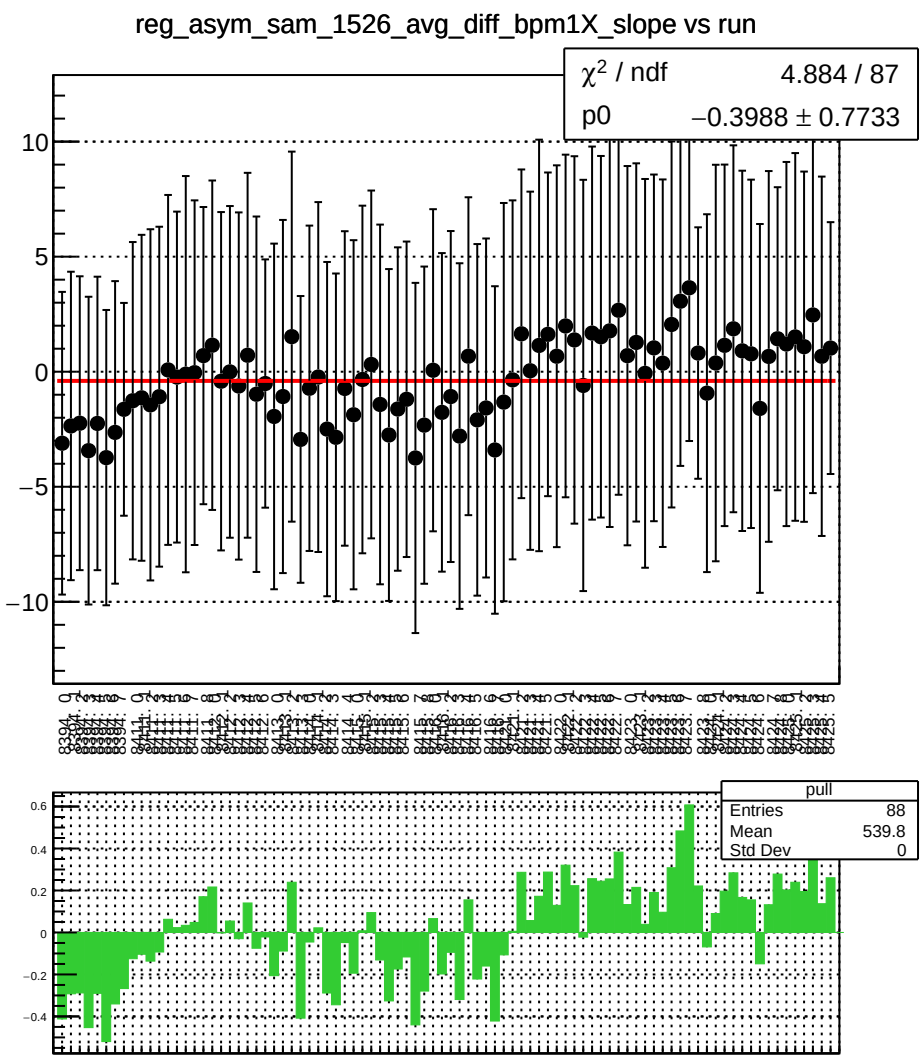

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 2.708 / 87
p0 −8.067 ± 2.075
pull
Entries 88
Mean 1362
Std Dev 0
pull1D
Entries 88
Mean 0.001623
Std Dev 0.1754

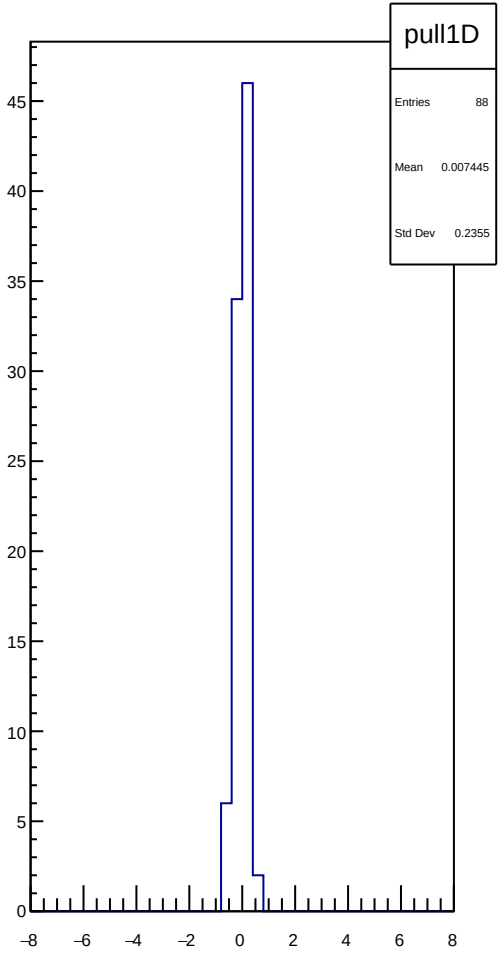

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.174 / 87
p0 34.19 ± 3.867
pull
Entries 88
Mean 153.3
Std Dev 0
pull1D
Entries 88
Mean 0.006279
Std Dev 0.1153

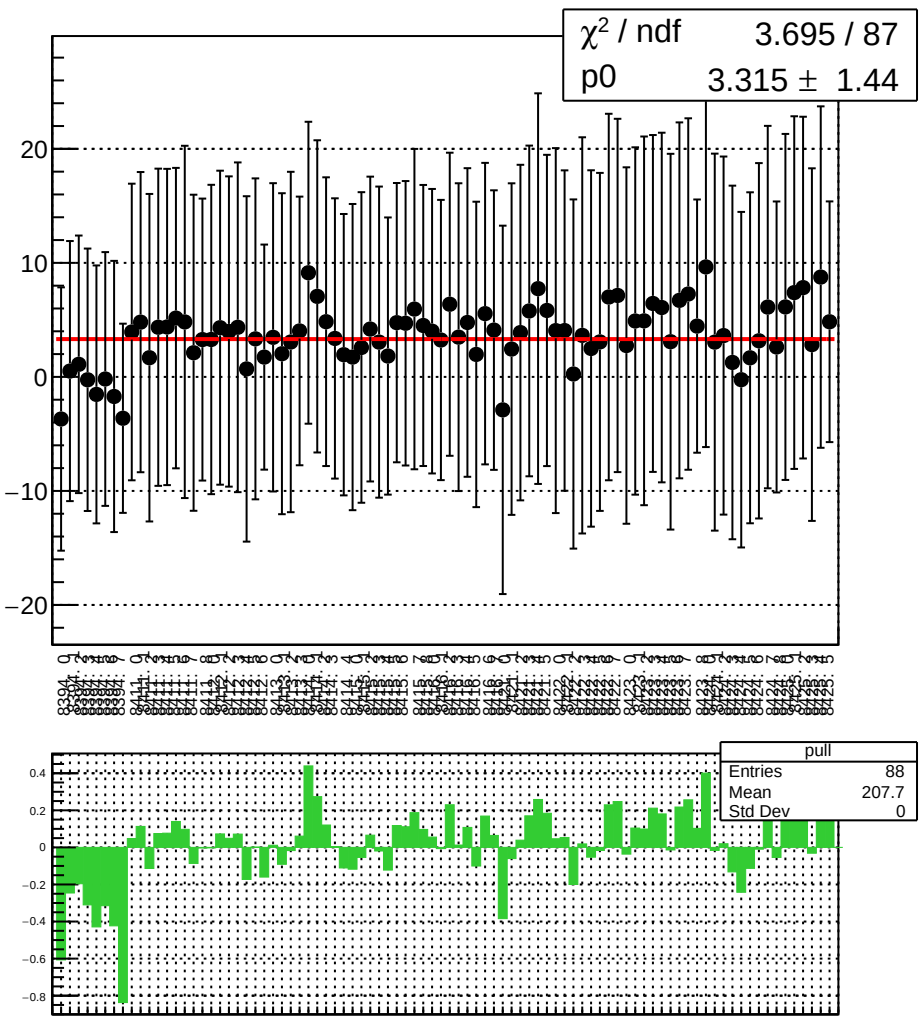

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.068 / 87
p0 −80.48 ± 2.316
pull
Entries 88
Mean 758.7
Std Dev 0
pull1D
Entries 88
Mean −0.002158
Std Dev 0.1533

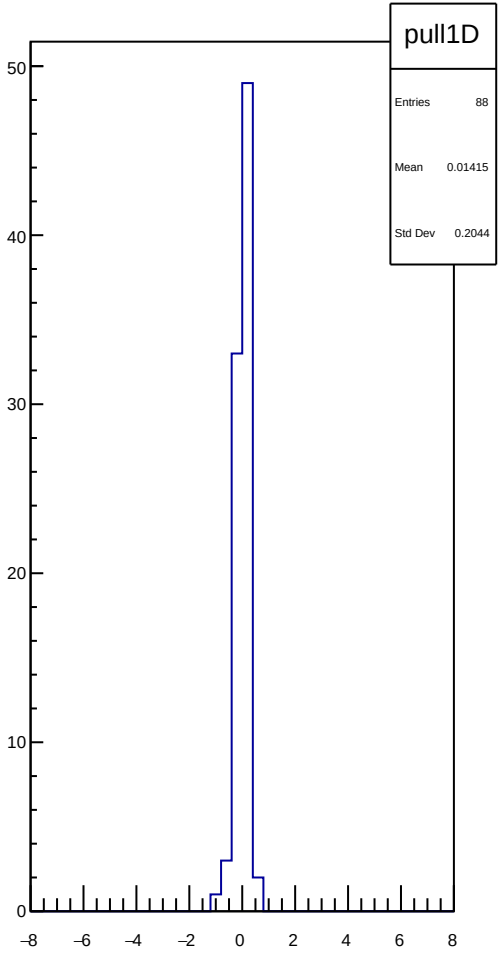

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.237 / 87
p0 23.98 ± 4.056
pull
Entries 88
Mean 168.5
Std Dev 0
pull1D
Entries 88
Mean −0.007774
Std Dev 0.1183

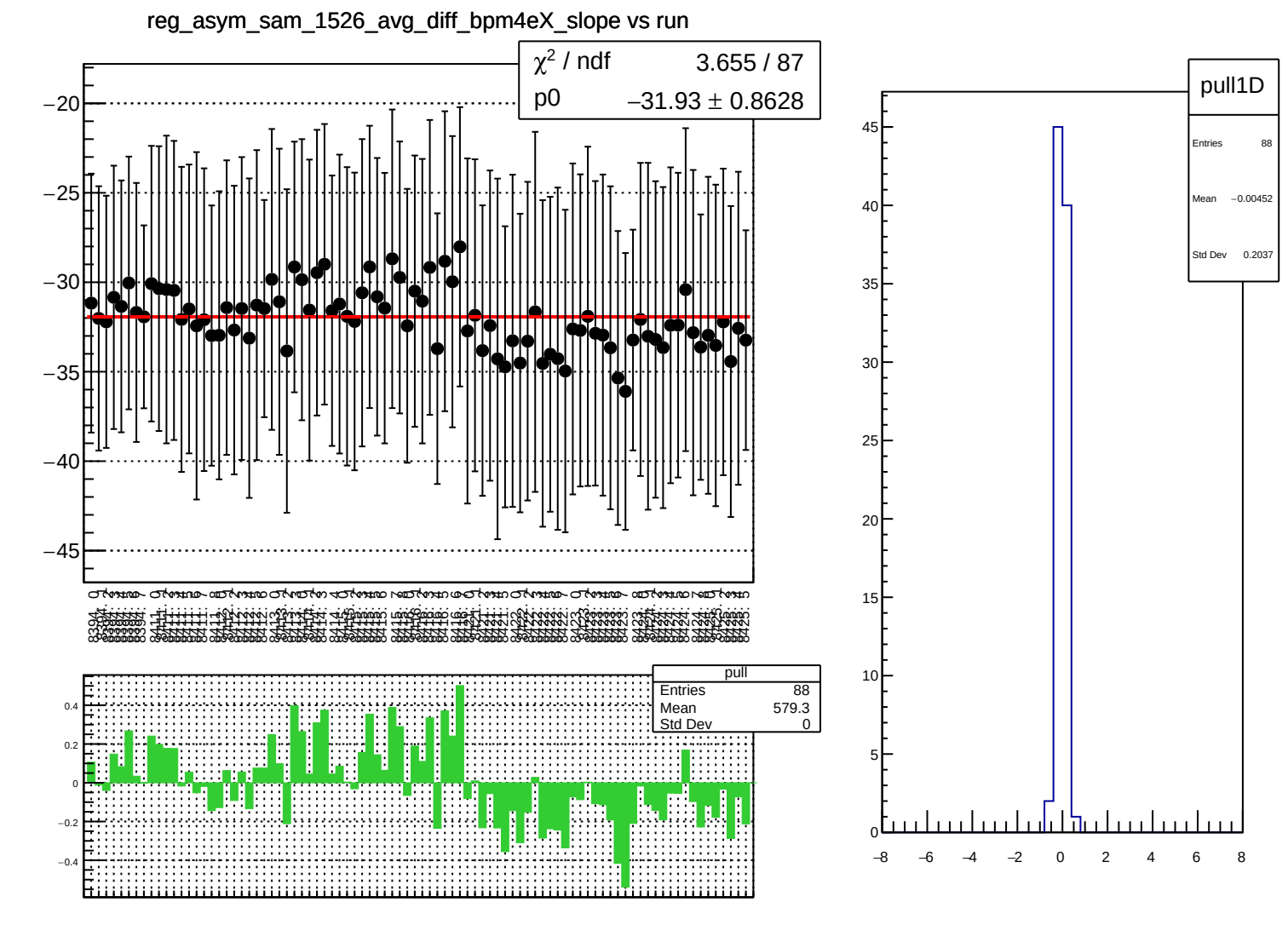

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 1.576 / 87
p0 1.675 ± 0.2434
pull
Entries 88
Mean 221.5
Std Dev 0
pull1D
Entries 88
Mean −0.00545
Std Dev 0.1337

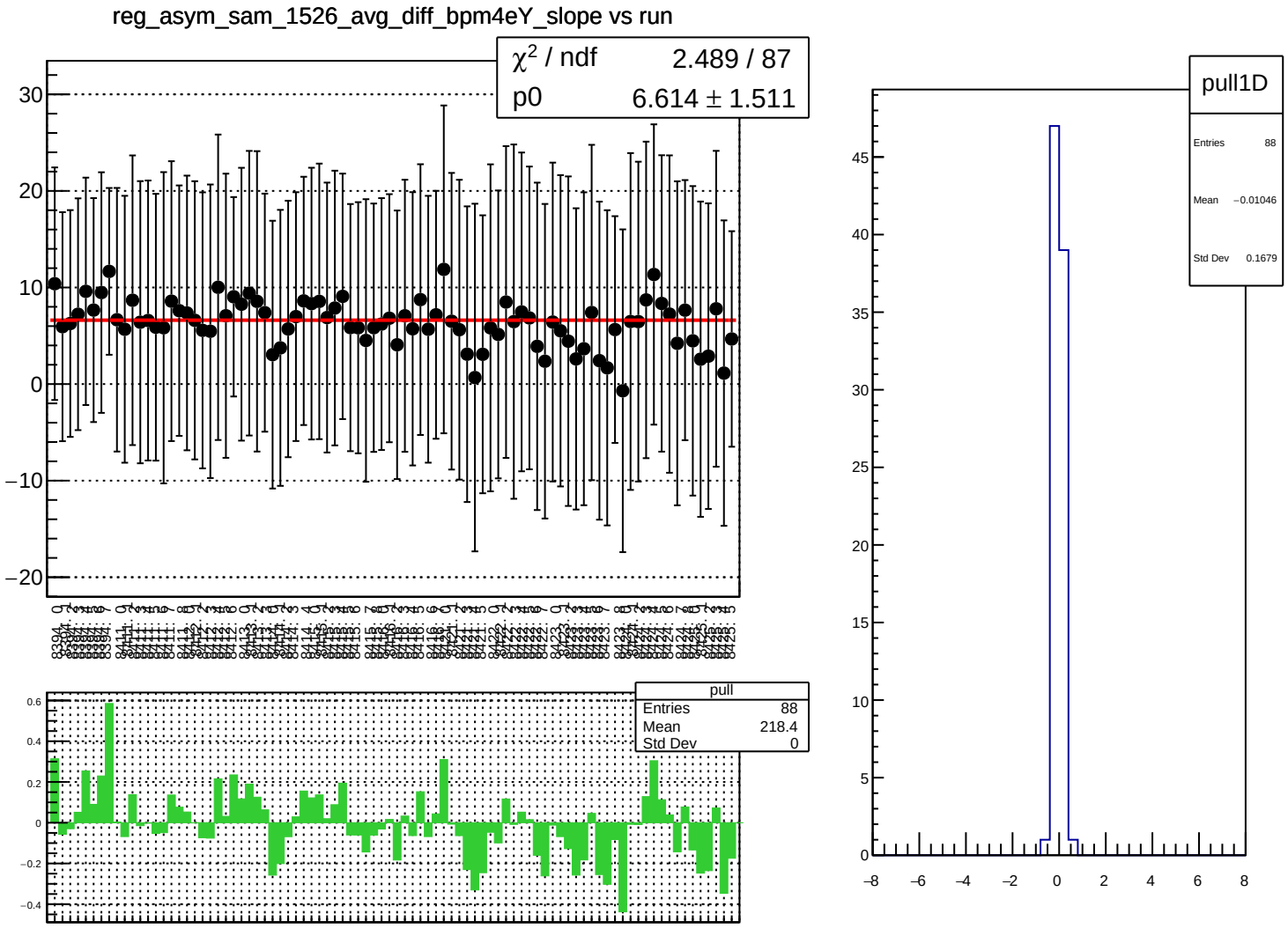

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 4.884 / 87
p0 −0.3988 ± 0.7733
pull
Entries 88
Mean 539.8
Std Dev 0

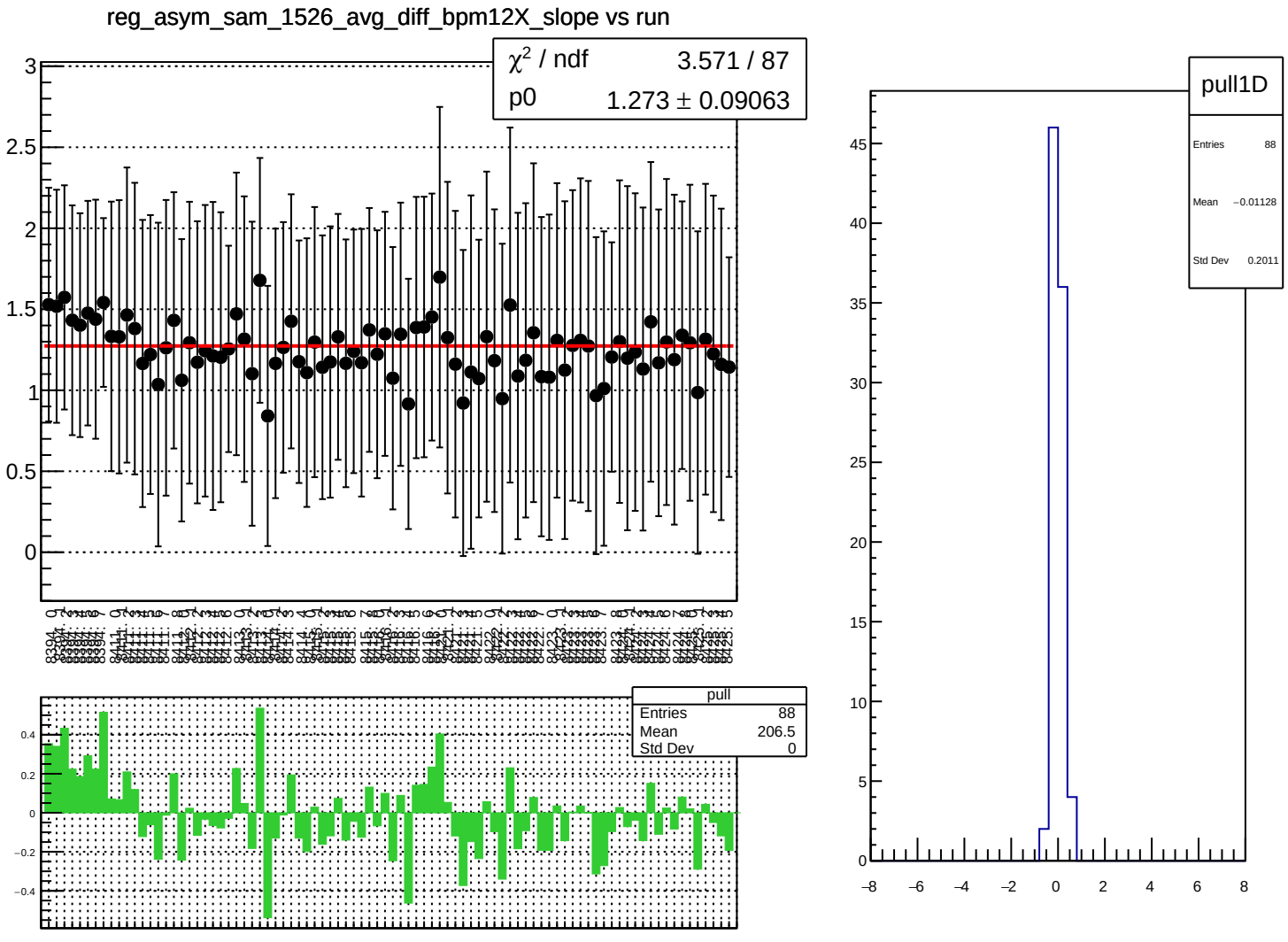

pull1D
Entries 88
Mean 0.007445
Std Dev 0.2355

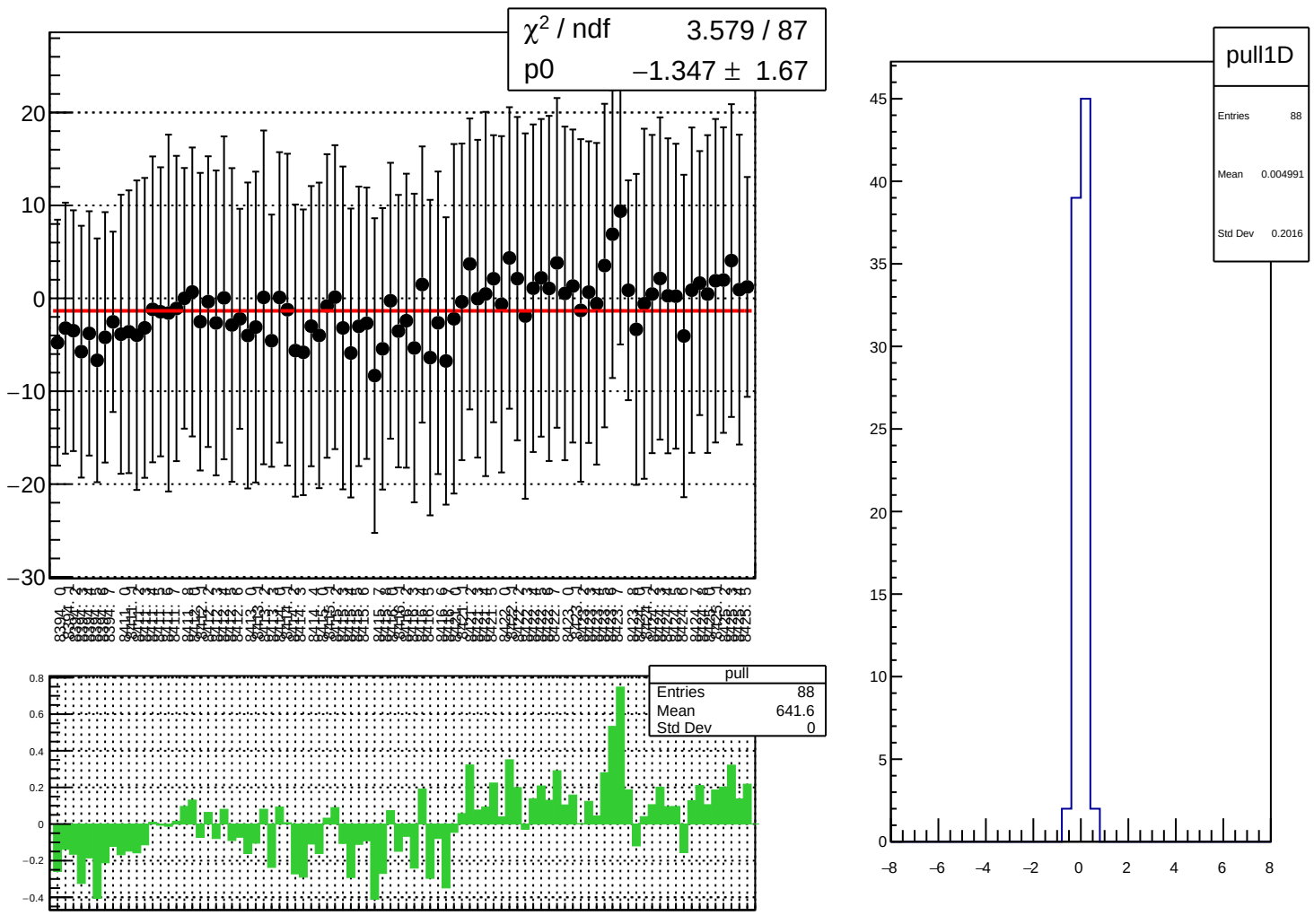

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.695 / 87
p0 3.315 ± 1.44
pull
Entries 88
Mean 207.7
Std Dev 0

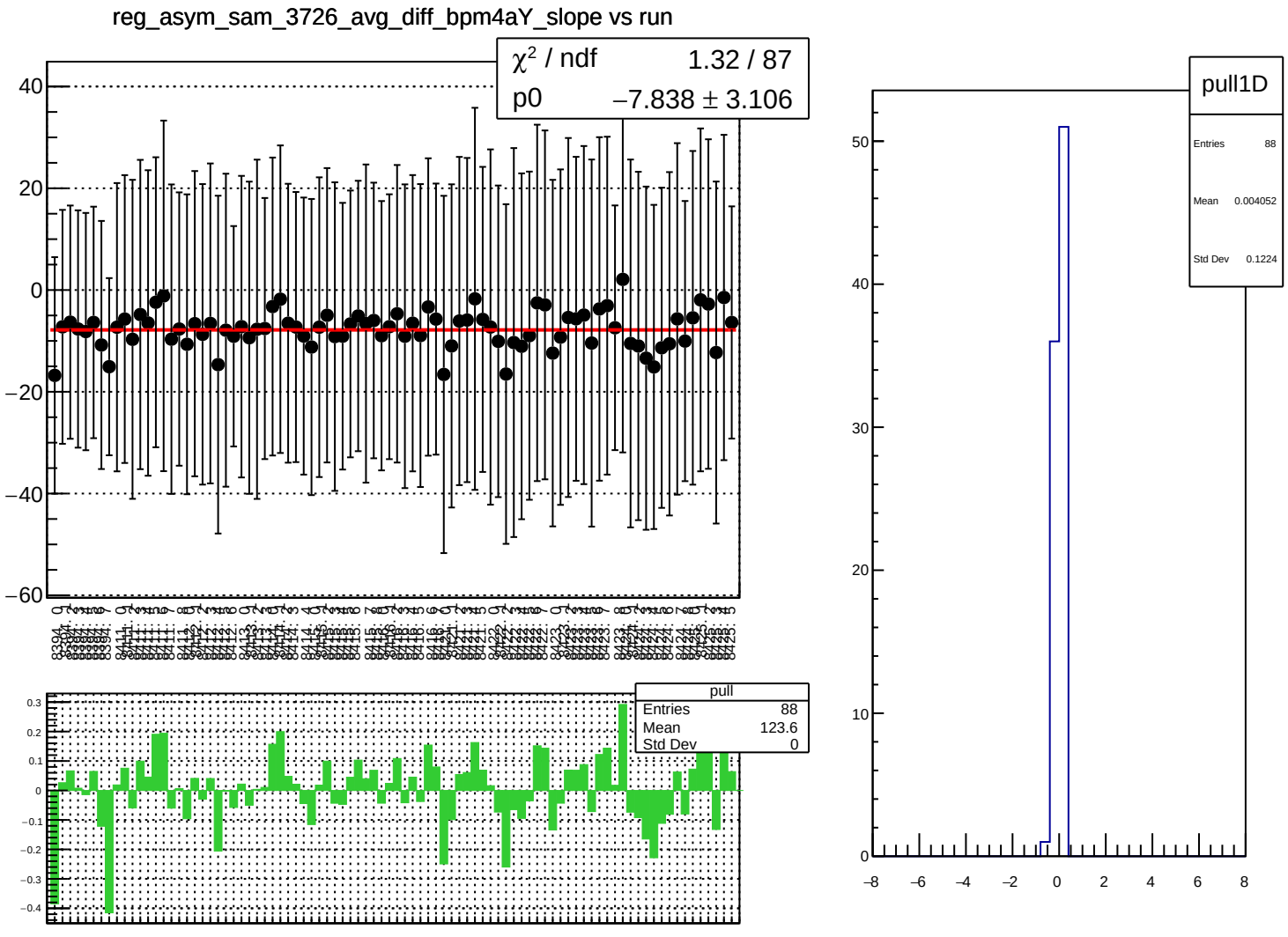

pull1D
Entries 88
Mean 0.01415
Std Dev 0.2044

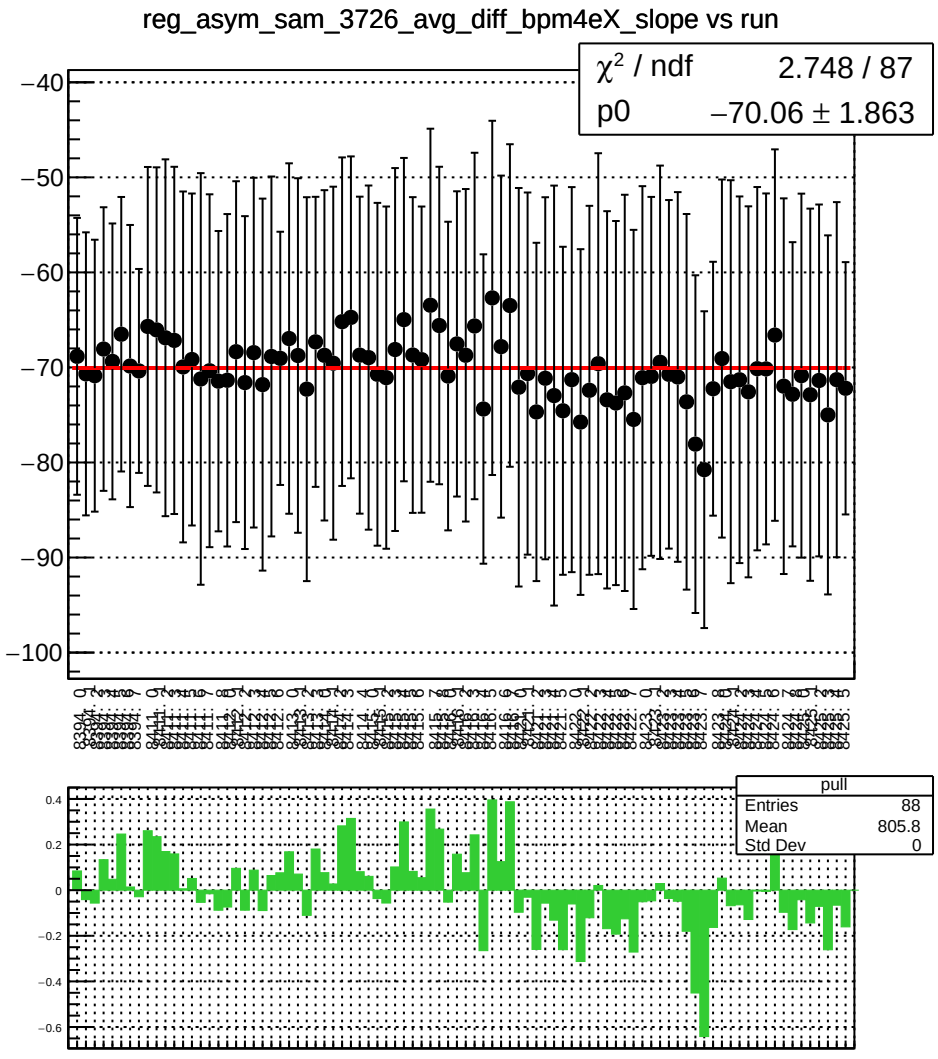

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.655 / 87
p0 −31.93 ± 0.8628
pull
Entries 88
Mean 579.3
Std Dev 0
pull1D
Entries 88
Mean −0.00452
Std Dev 0.2037

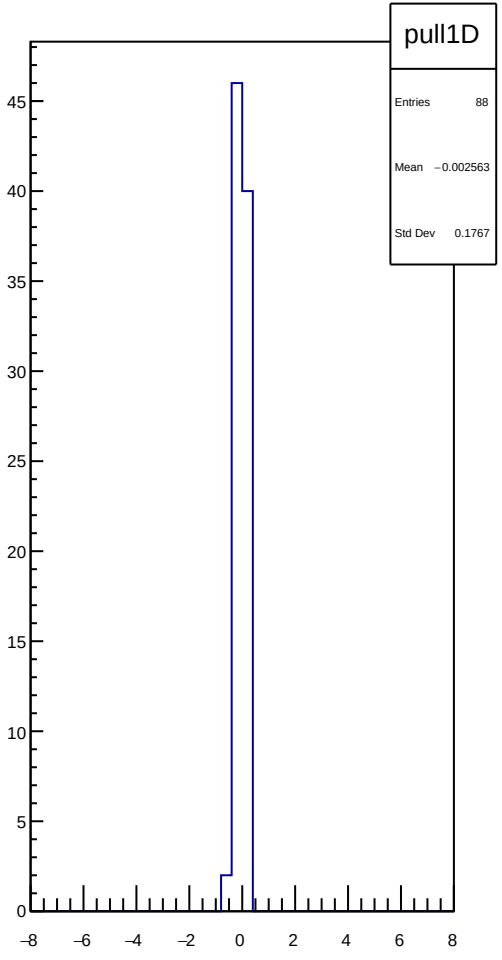

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.489 / 87
p0 6.614 ± 1.511
pull
Entries 88
Mean 218.4
Std Dev 0
pull1D
Entries 88
Mean −0.01046
Std Dev 0.1679

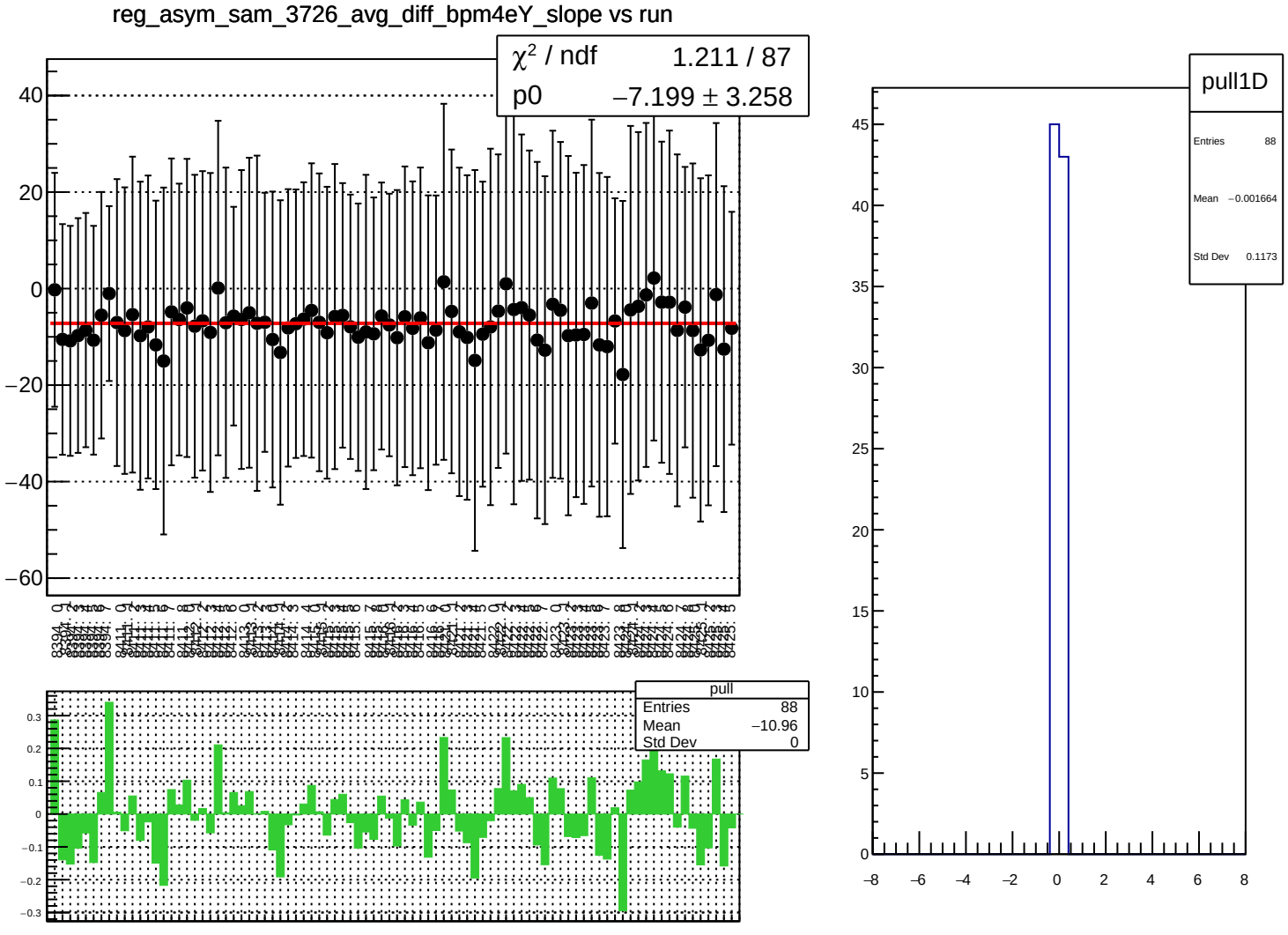

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 3.571 / 87
p0 1.273 ± 0.09063
pull
Entries 88
Mean 206.5
Std Dev 0
pull1D
Entries 88
Mean −0.01128
Std Dev 0.2011

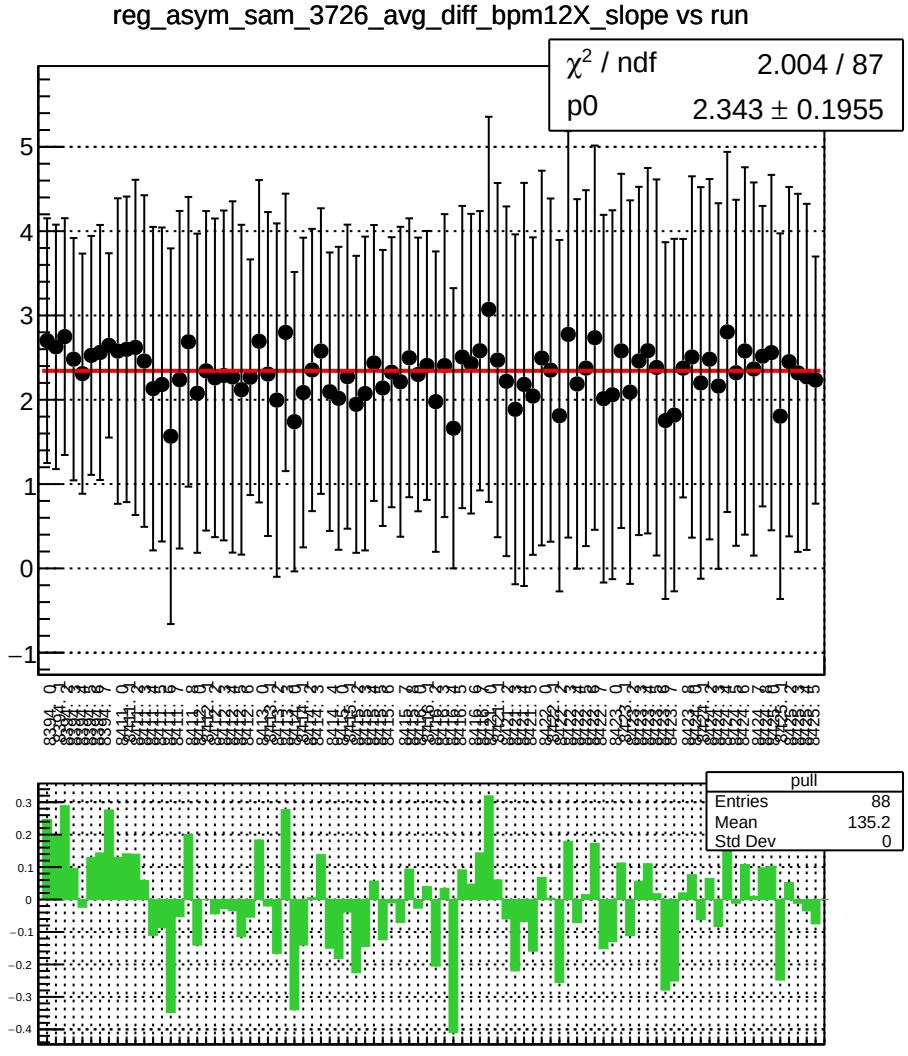

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 3.579 / 87
p0 −1.347 ± 1.67
pull
Entries 88
Mean 641.6
Std Dev 0
pull1D
Entries 88
Mean 0.004991
Std Dev 0.2016

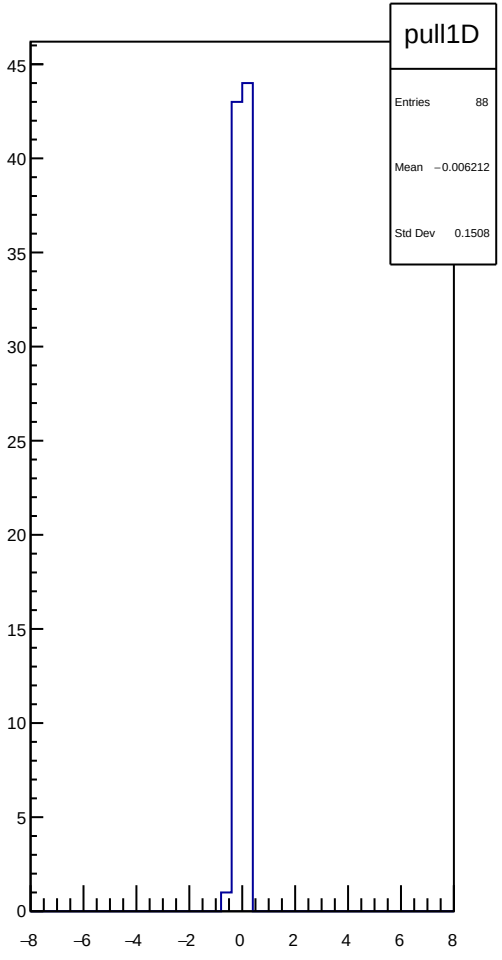

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.32 / 87
p0 −7.838 ± 3.106
pull
Entries 88
Mean 123.6
Std Dev 0
pull1D
Entries 88
Mean 0.004052
Std Dev 0.1224

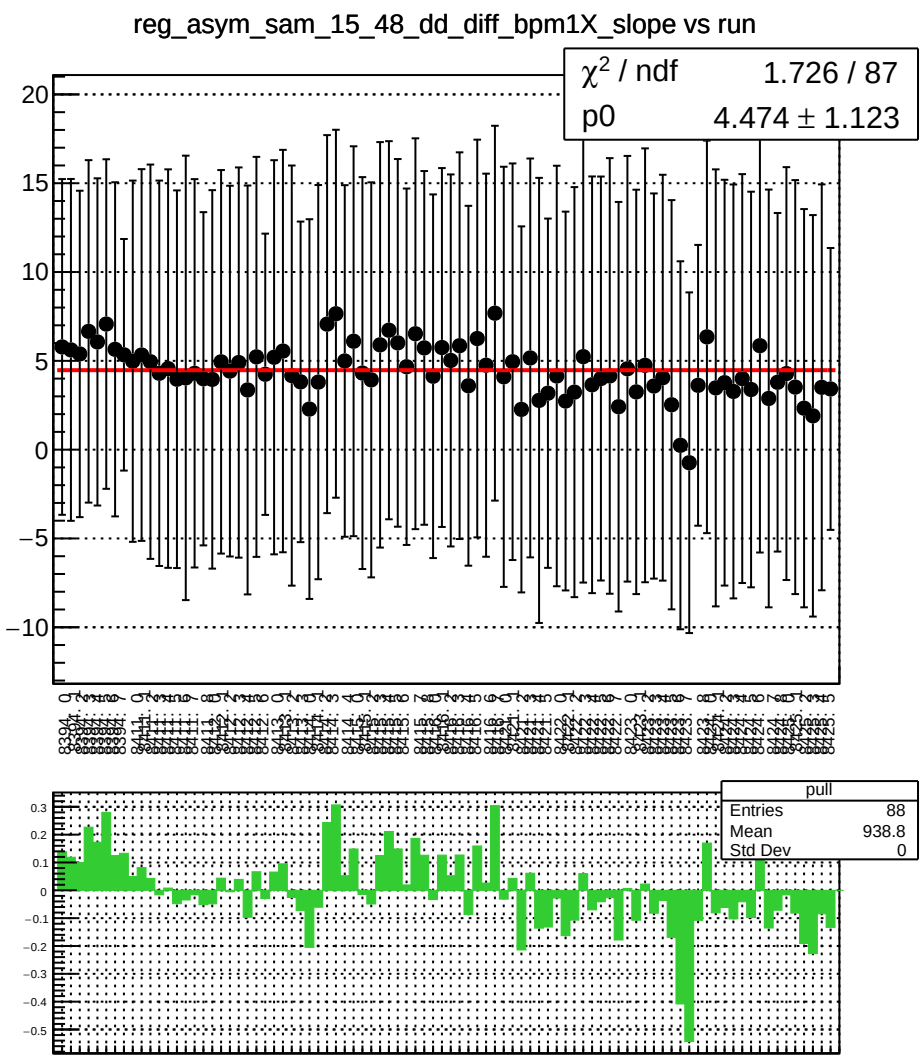

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.748 / 87
p0 −70.06 ± 1.863
pull
Entries 88
Mean 805.8
Std Dev 0

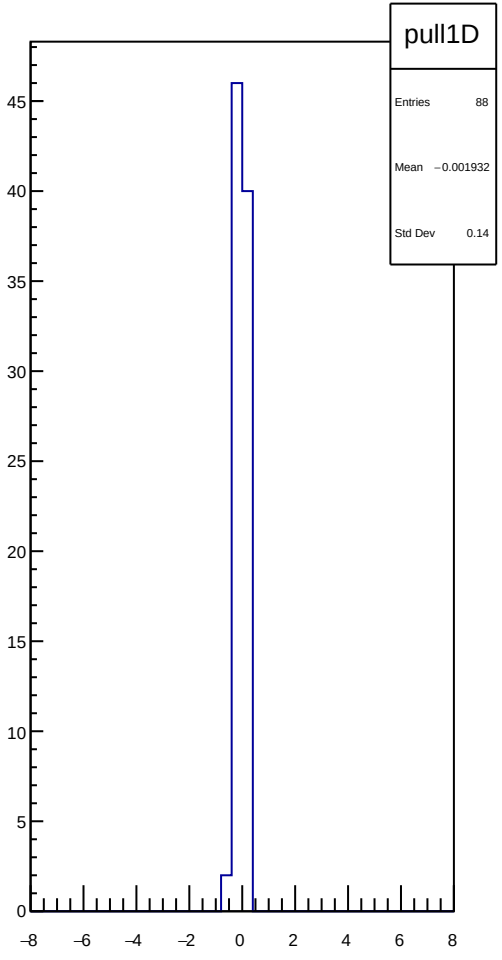

pull1D
Entries 88
Mean −0.002563
Std Dev 0.1767

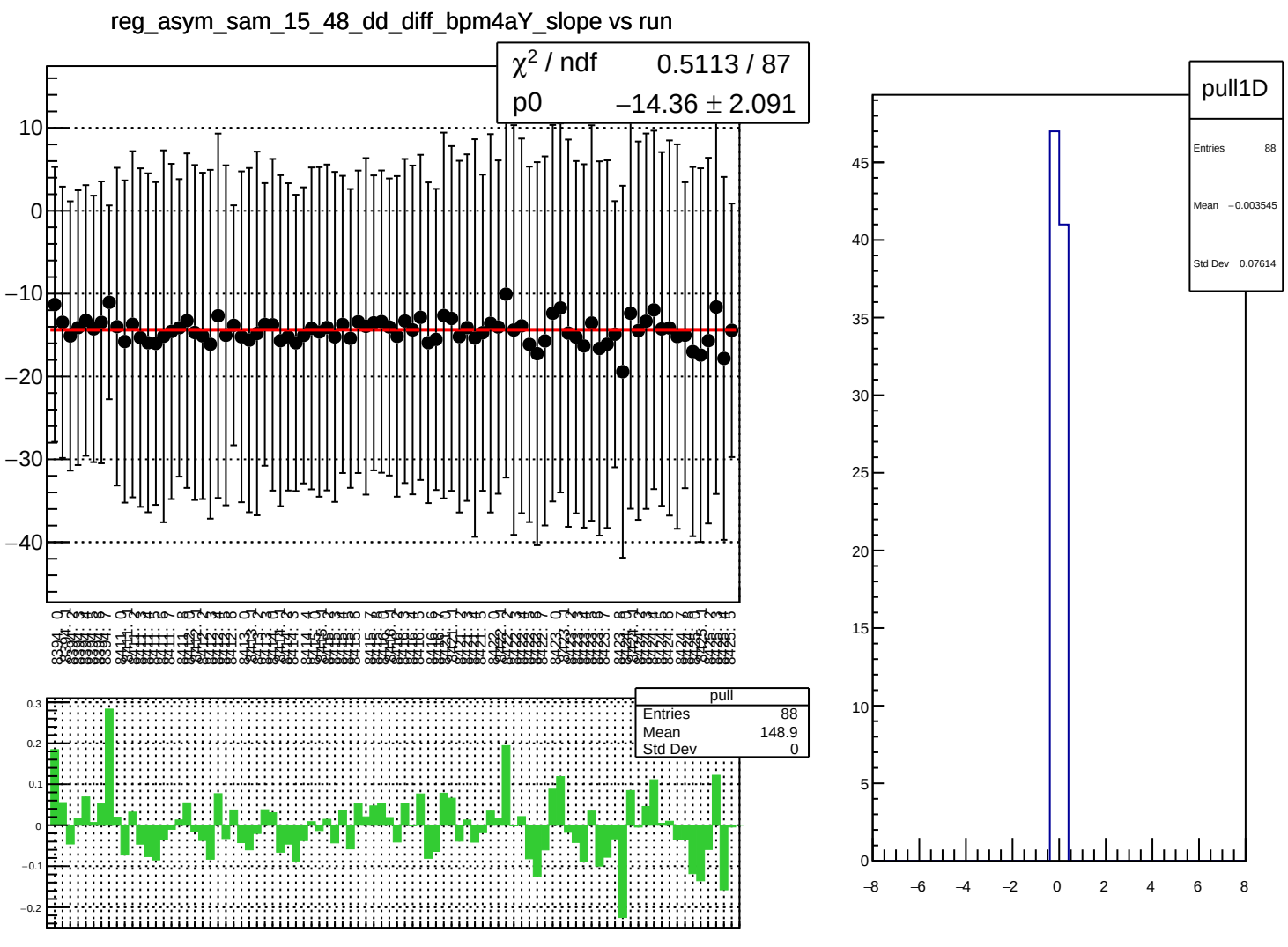

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.211 / 87
p0 −7.199 ± 3.258
pull
Entries 88
Mean −10.96
Std Dev 0
pull1D
Entries 88
Mean −0.001664
Std Dev 0.1173

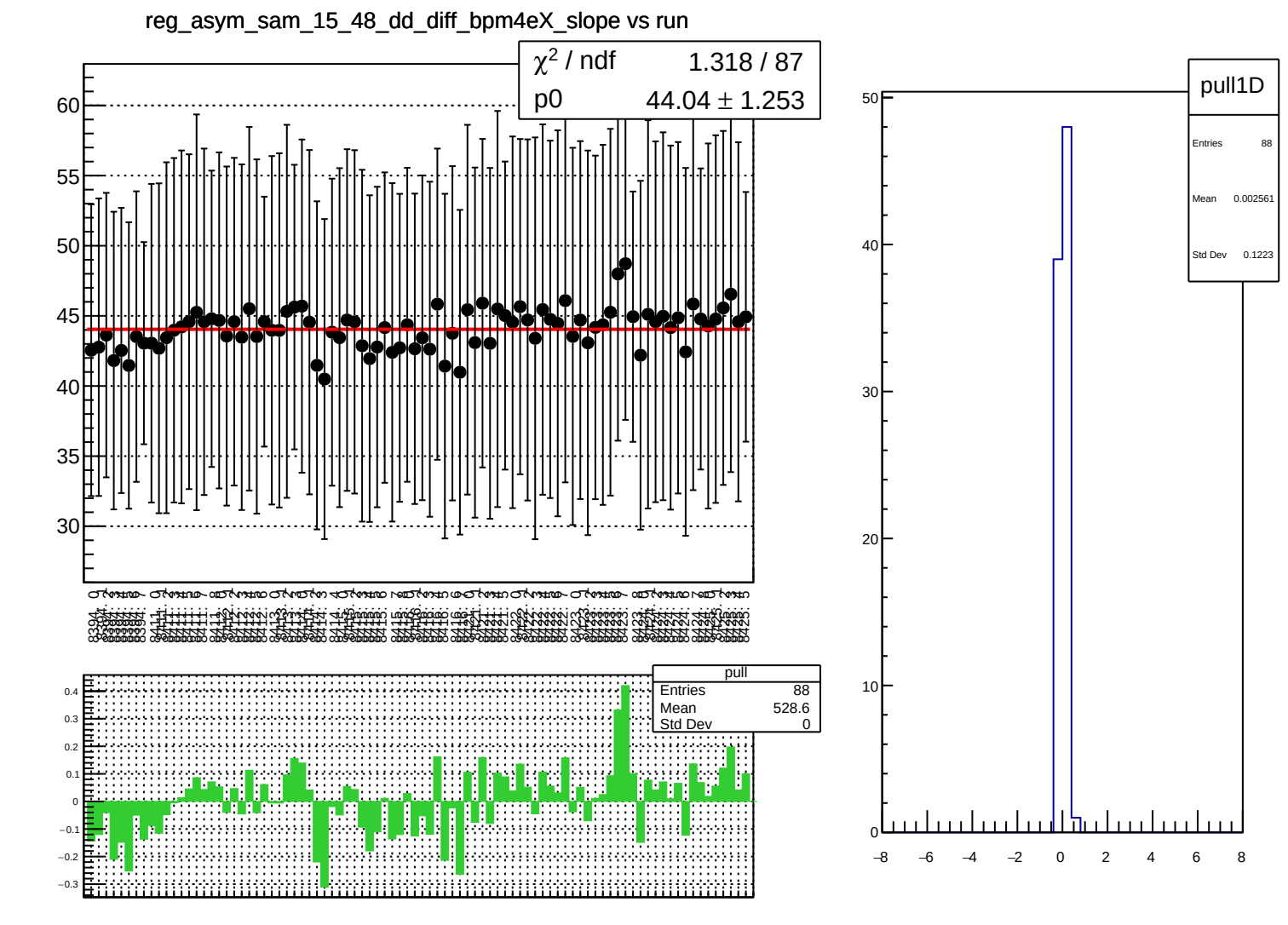

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 2.004 / 87
p0 2.343 ± 0.1955
pull
Entries 88
Mean 135.2
Std Dev 0

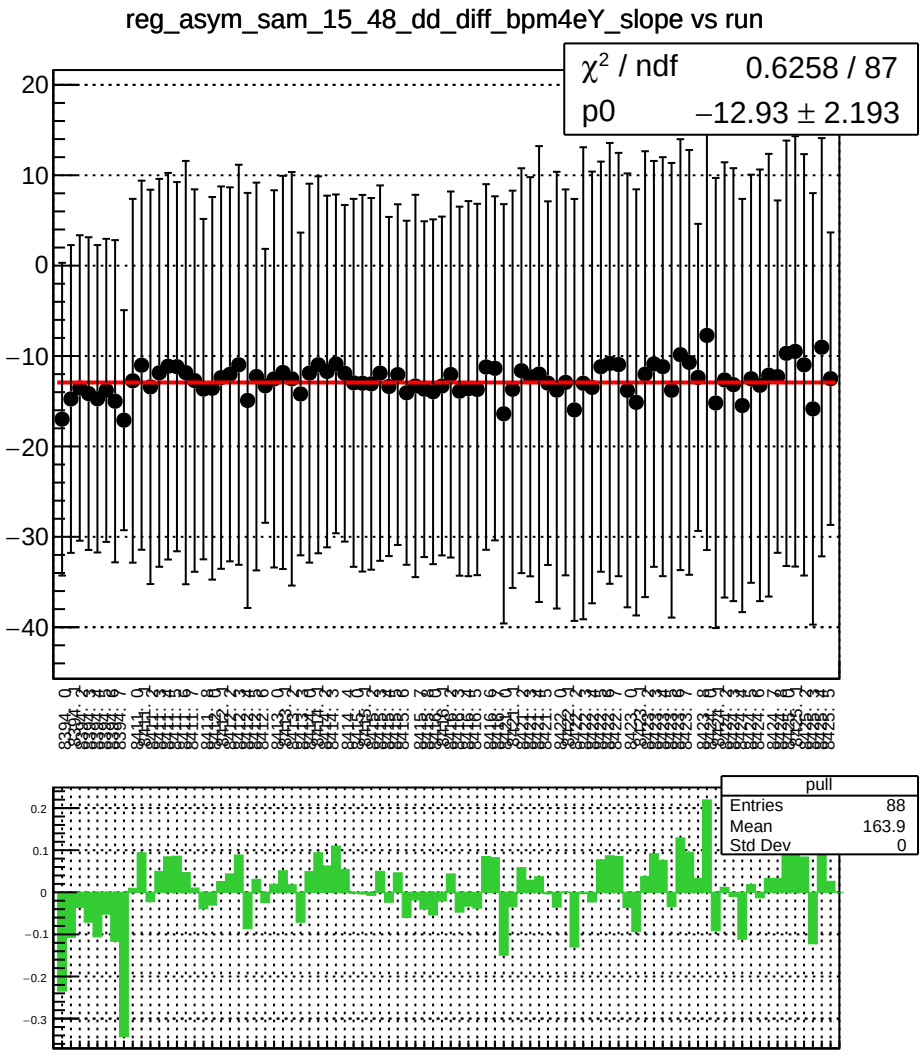

pull1D
Entries 88
Mean −0.006212
Std Dev 0.1508

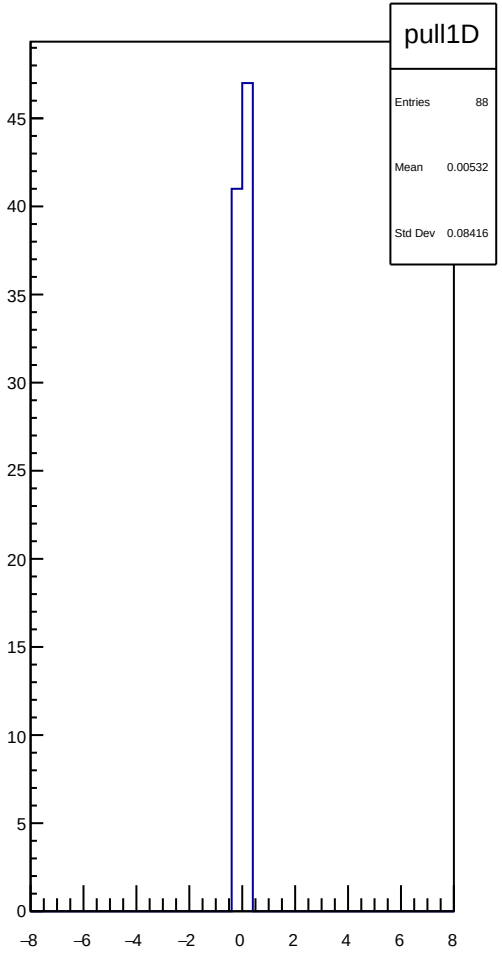

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 1.726 / 87
p0 4.474 ± 1.123
pull
Entries 88
Mean 938.8
Std Dev 0

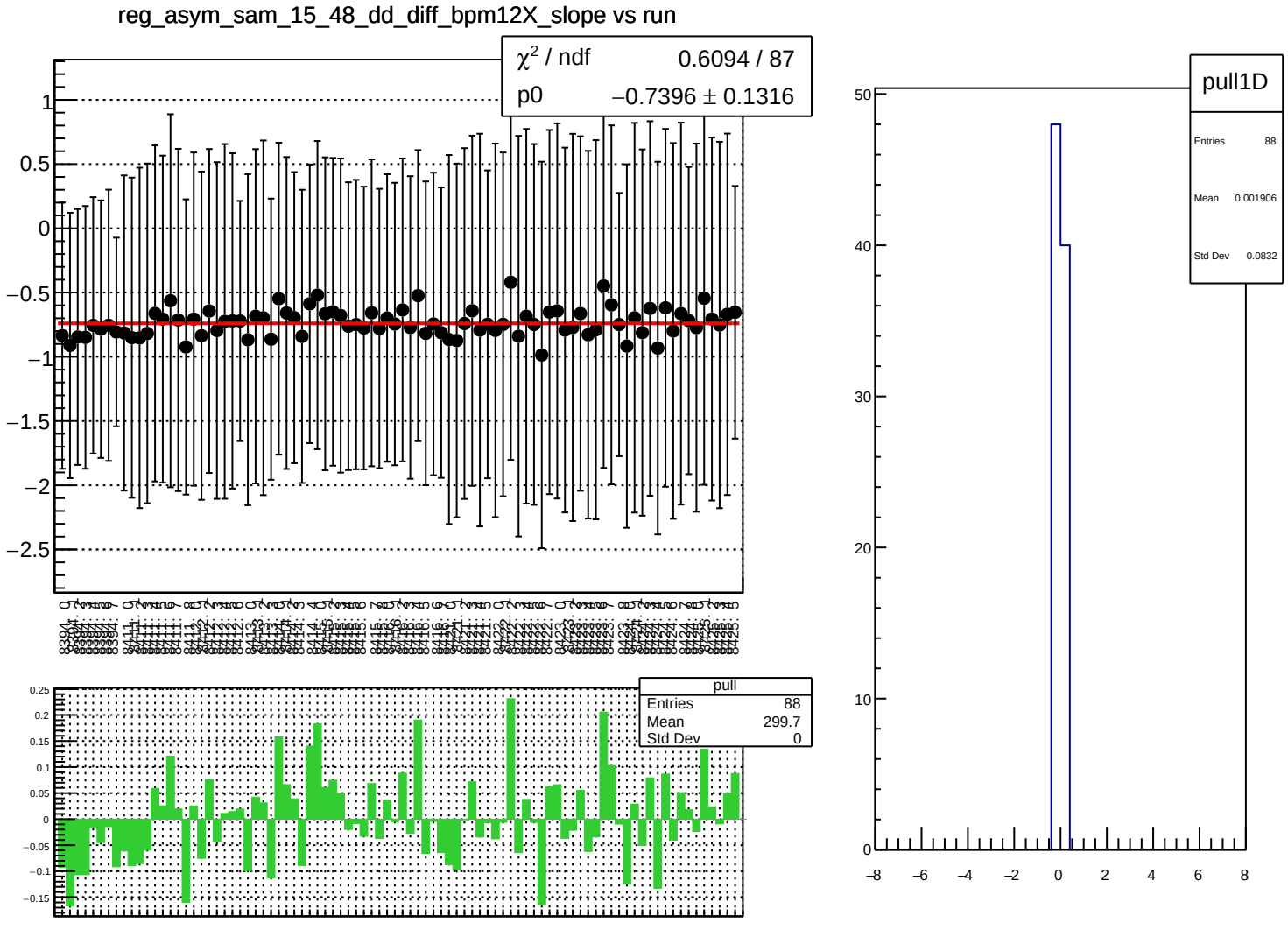

pull1D
Entries 88
Mean −0.001932
Std Dev 0.14


reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.5113 / 87
p0 −14.36 ± 2.091
pull
Entries 88
Mean 148.9
Std Dev 0
pull1D
Entries 88
Mean −0.003545
Std Dev 0.07614

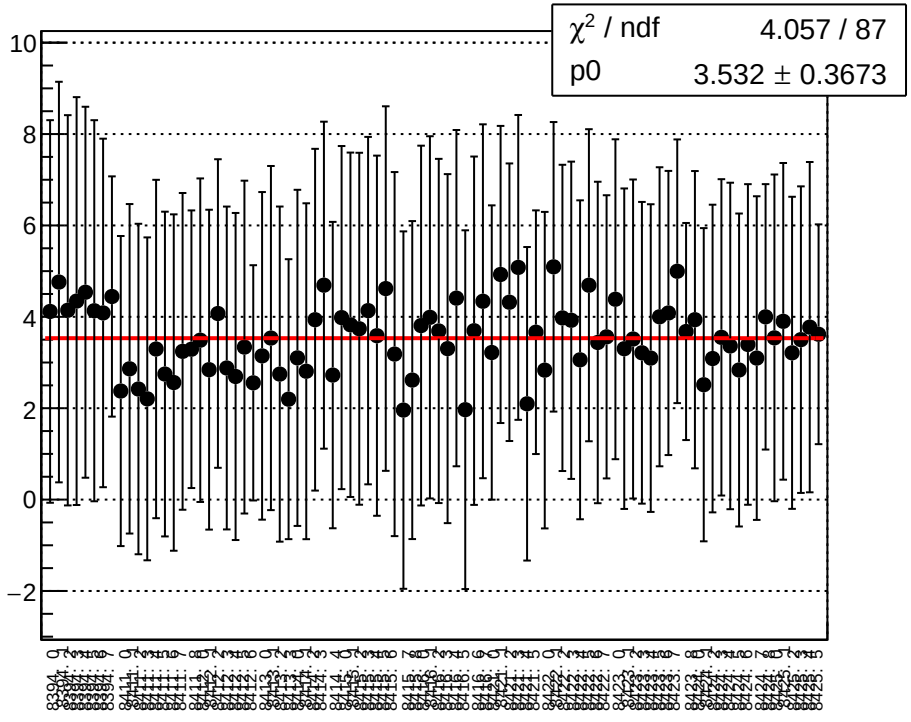

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.318 / 87
p0 44.04 ± 1.253
pull
Entries 88
Mean 528.6
Std Dev 0
pull1D
Entries 88
Mean 0.002561
Std Dev 0.1223

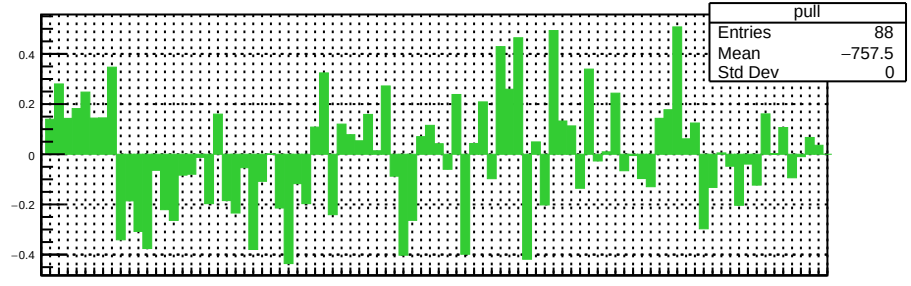

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.6258 / 87
p0 −12.93 ± 2.193
pull
Entries 88
Mean 163.9
Std Dev 0

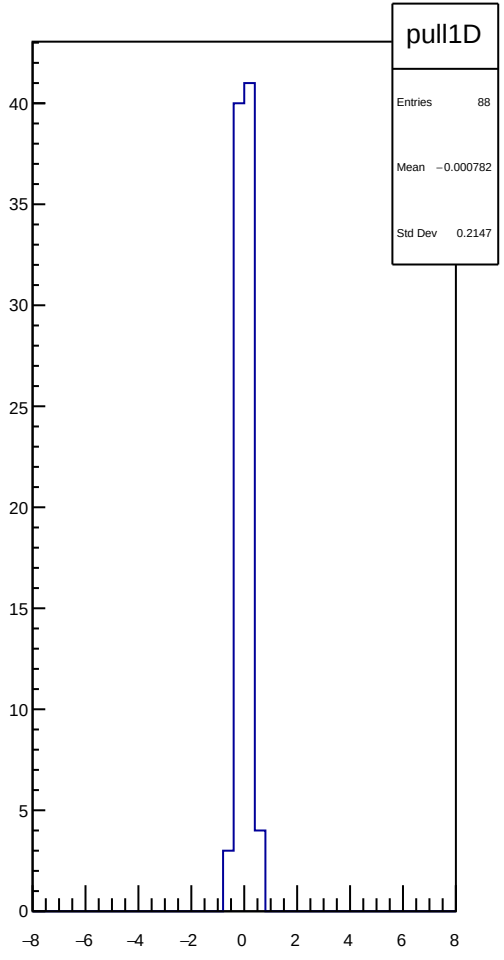

pull1D
Entries 88
Mean 0.00532
Std Dev 0.08416

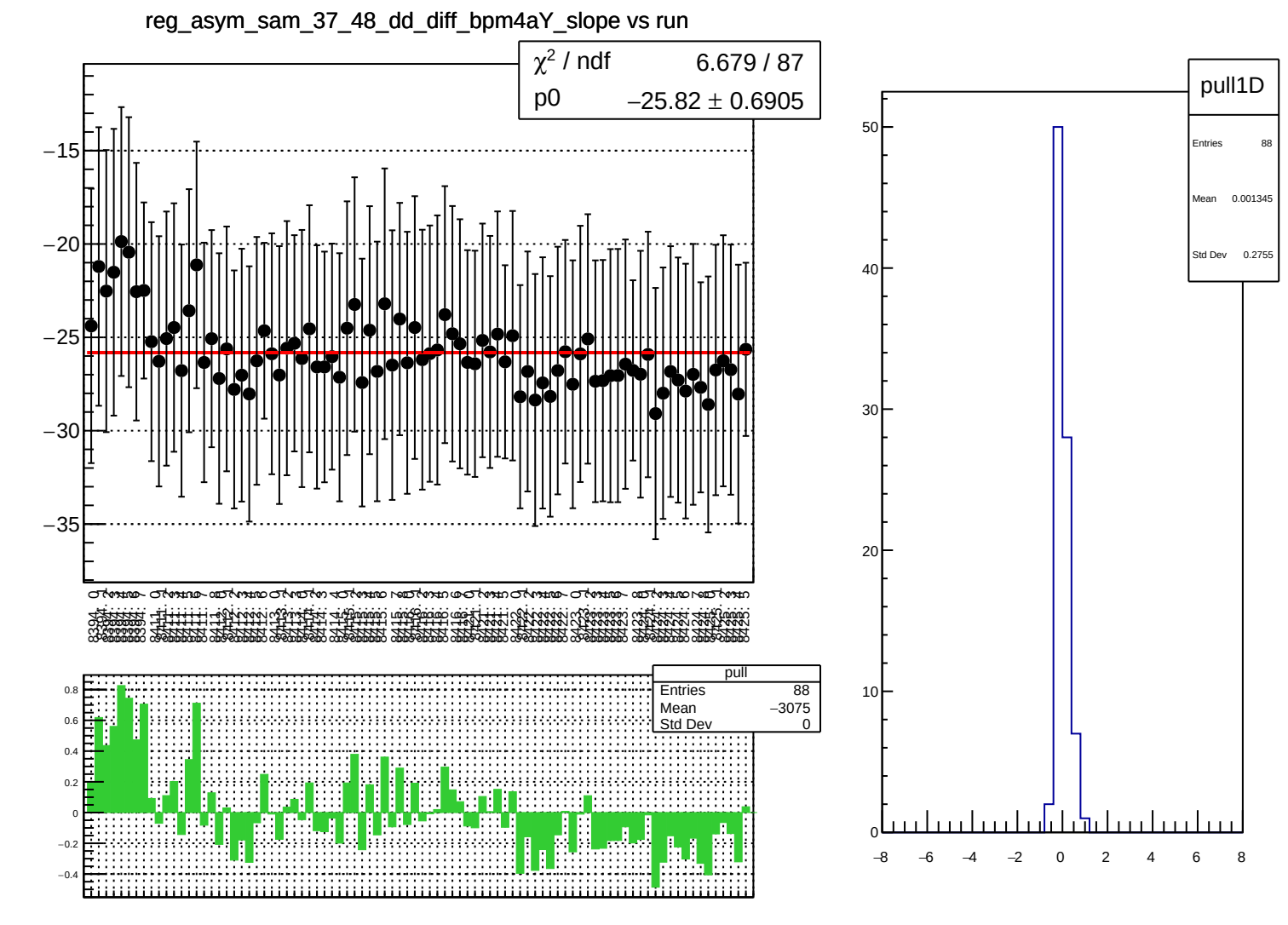

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 0.6094 / 87
p0 −0.7396 ± 0.1316
pull
Entries 88
Mean 299.7
Std Dev 0
pull1D
Entries 88
Mean 0.001906
Std Dev 0.0832

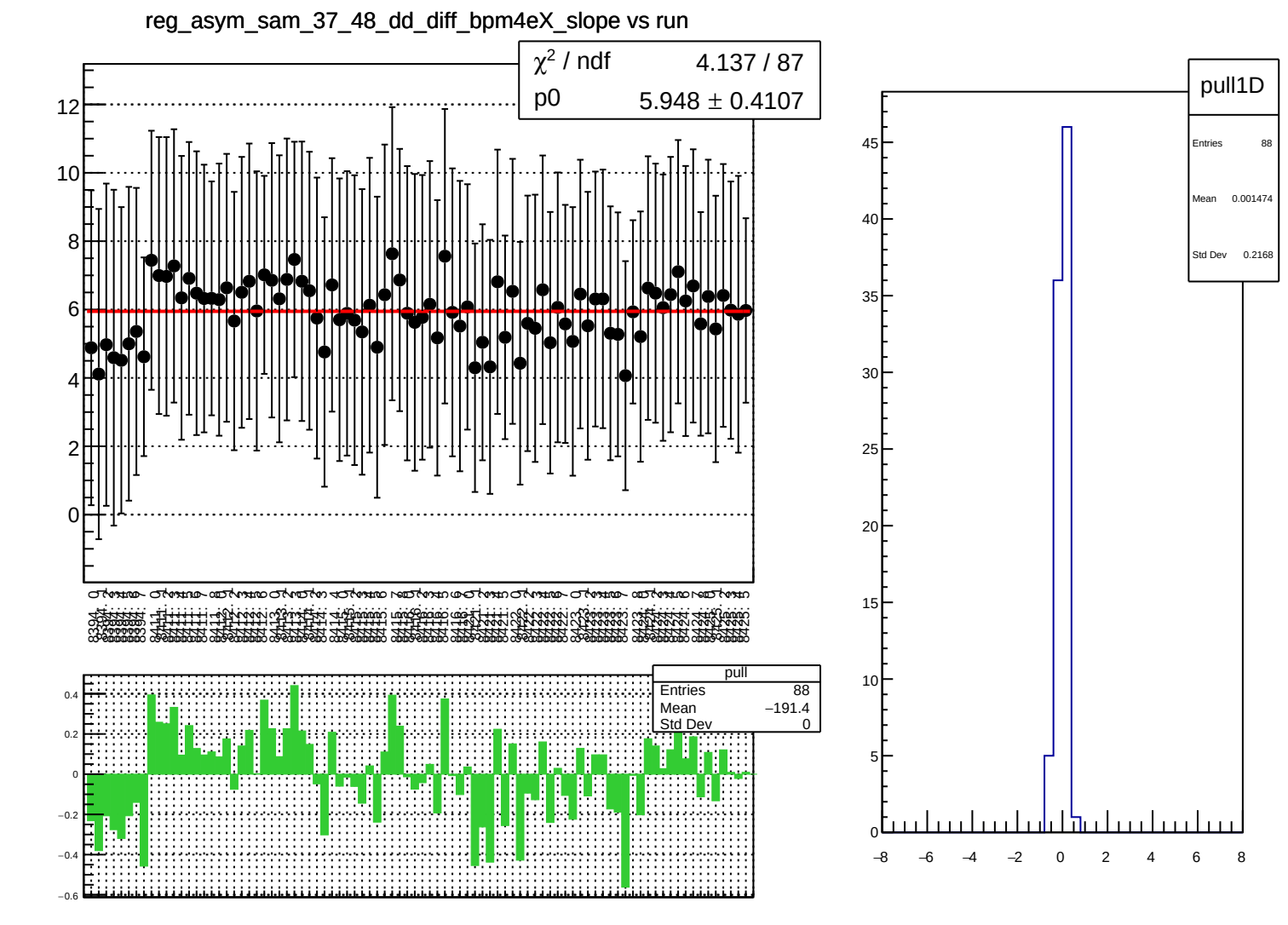
reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run

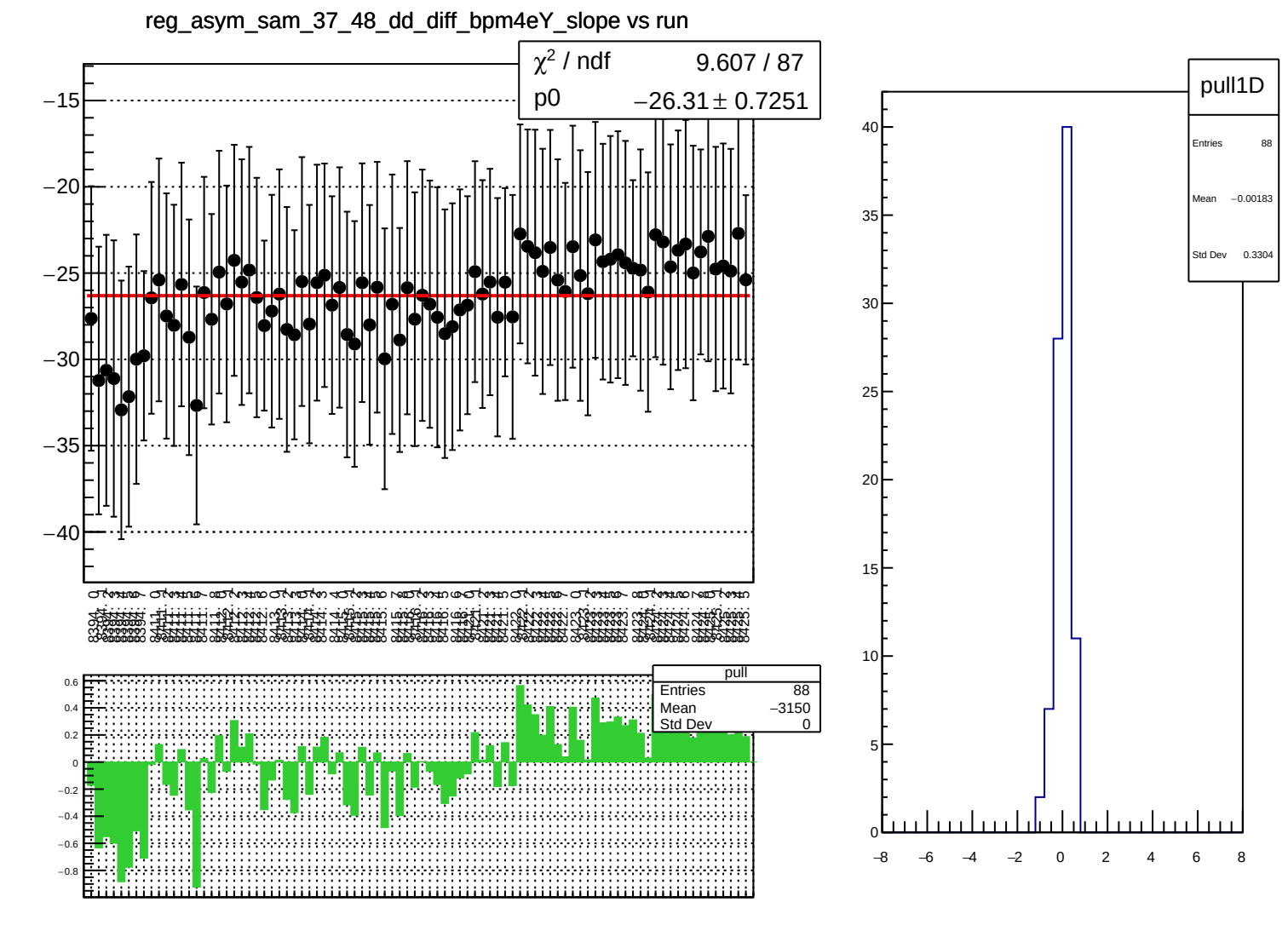


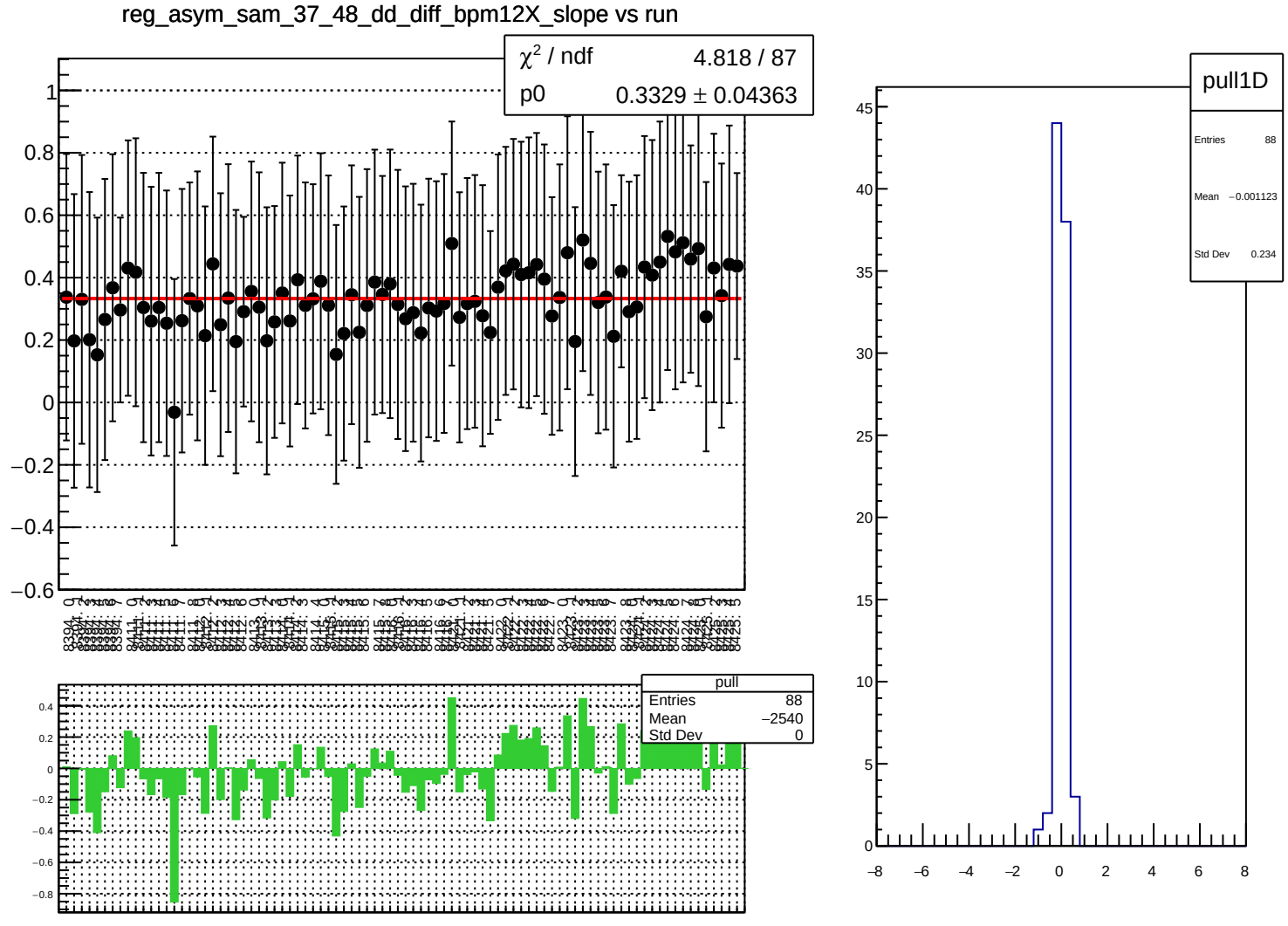


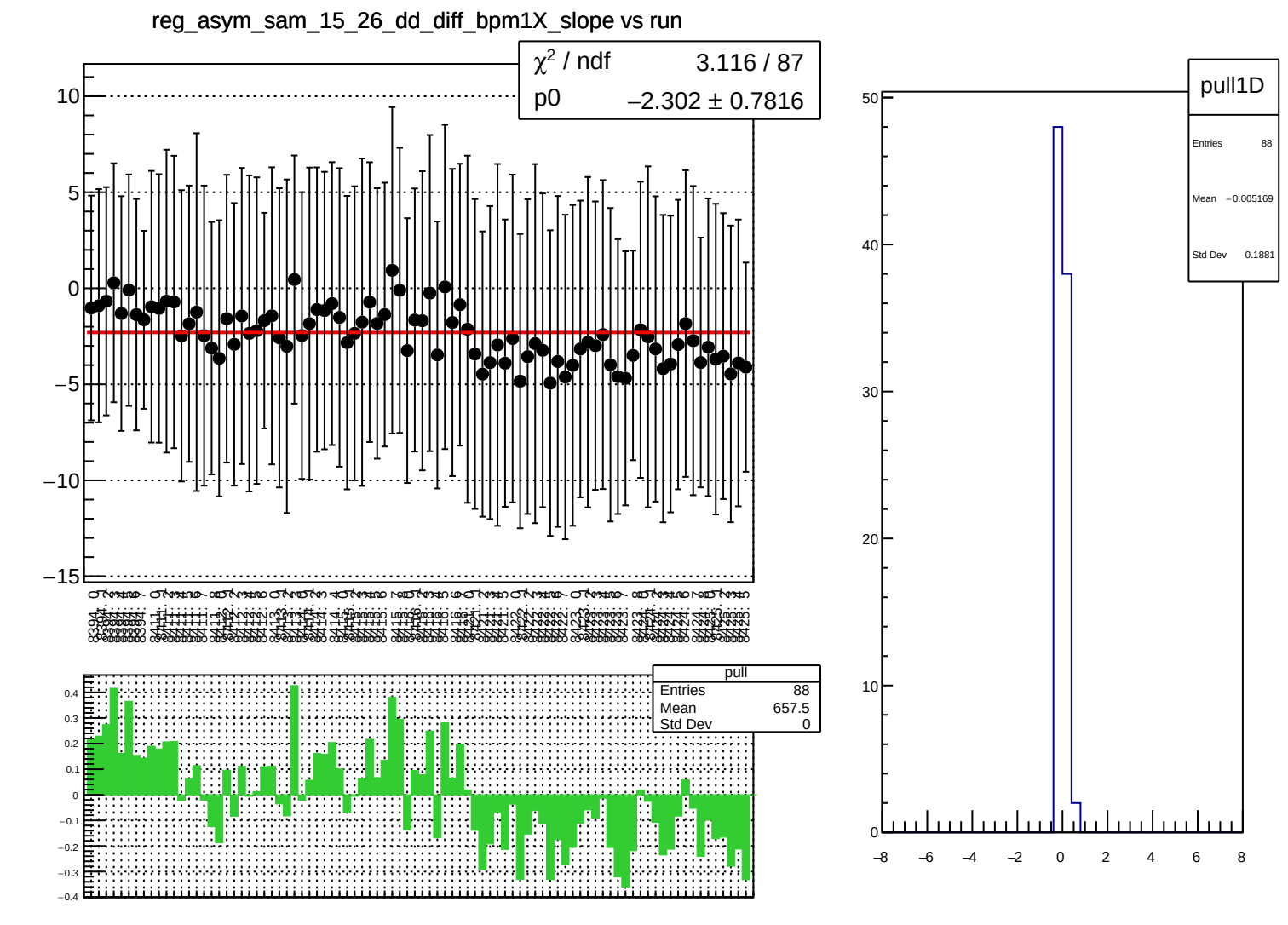


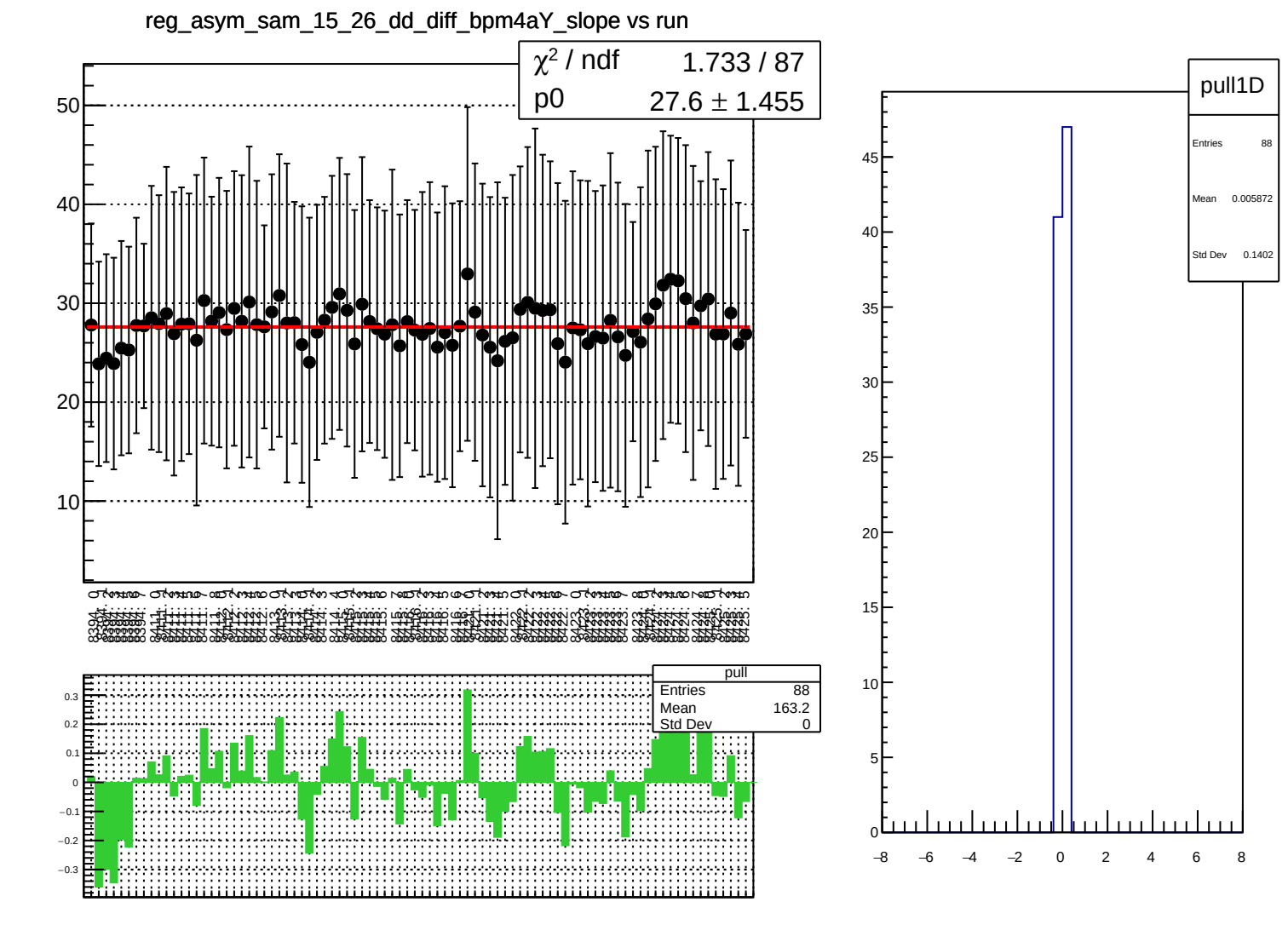

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.679 / 87
p0 −25.82 ± 0.6905
pull
Entries 88
Mean −3075
Std Dev 0
pull1D
Entries 88
Mean 0.001345
Std Dev 0.2755

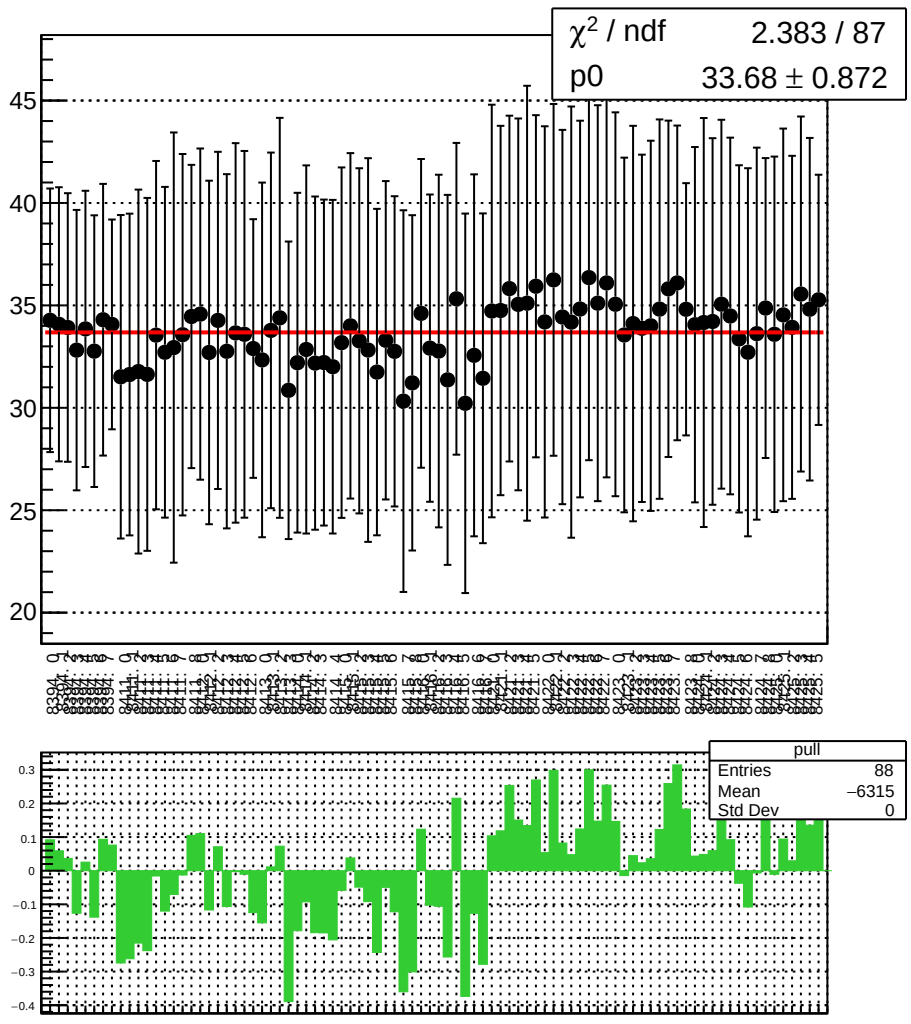

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.137 / 87
p0 5.948 ± 0.4107
pull
Entries 88
Mean −191.4
Std Dev 0
pull1D
Entries 88
Mean 0.001474
Std Dev 0.2168

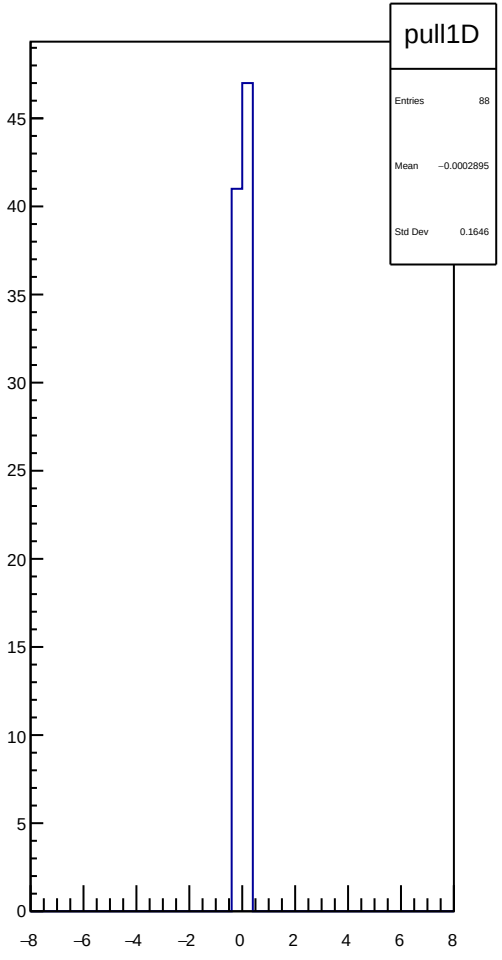

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.607 / 87
p0 −26.31 ± 0.7251
pull
Entries 88
Mean −3150
Std Dev 0
pull1D
Entries 88
Mean −0.00183
Std Dev 0.3304

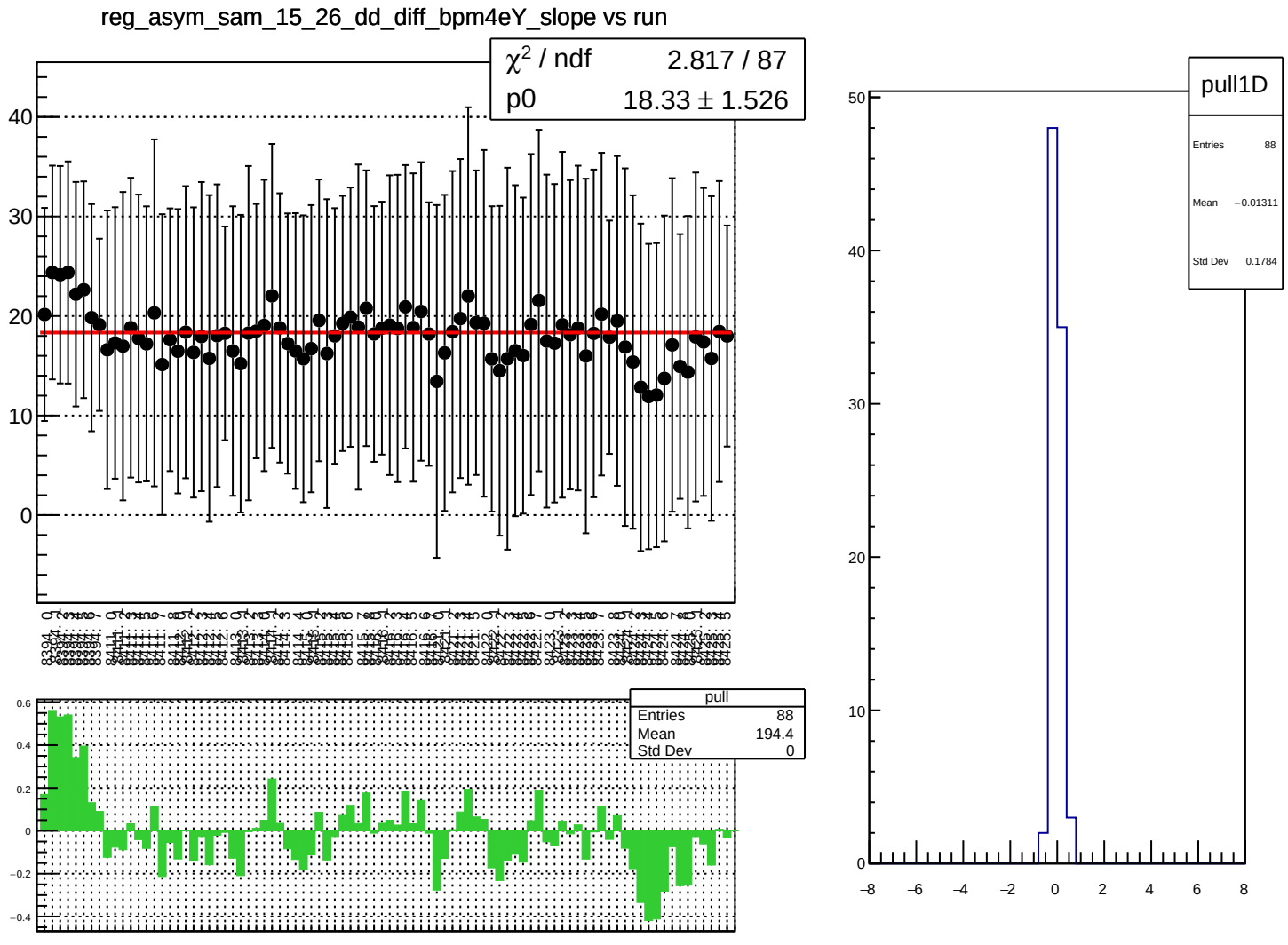

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 4.818 / 87
p0 0.3329 ± 0.04363
pull
Entries 88
Mean −2540
Std Dev 0
pull1D
Entries 88
Mean −0.001123
Std Dev 0.234

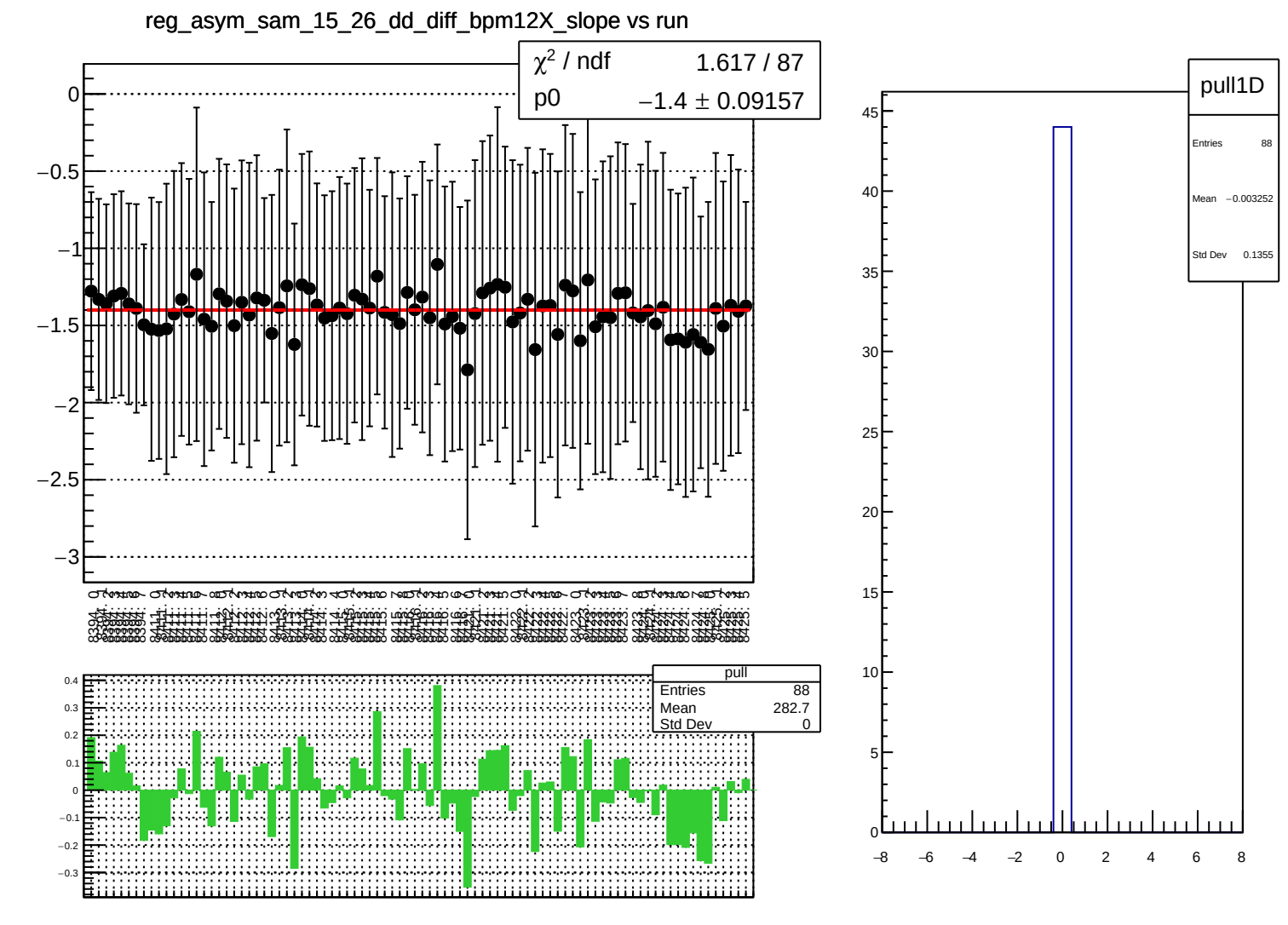

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 3.116 / 87
p0 −2.302 ± 0.7816
pull
Entries 88
Mean 657.5
Std Dev 0
pull1D
Entries 88
Mean −0.005169
Std Dev 0.1881

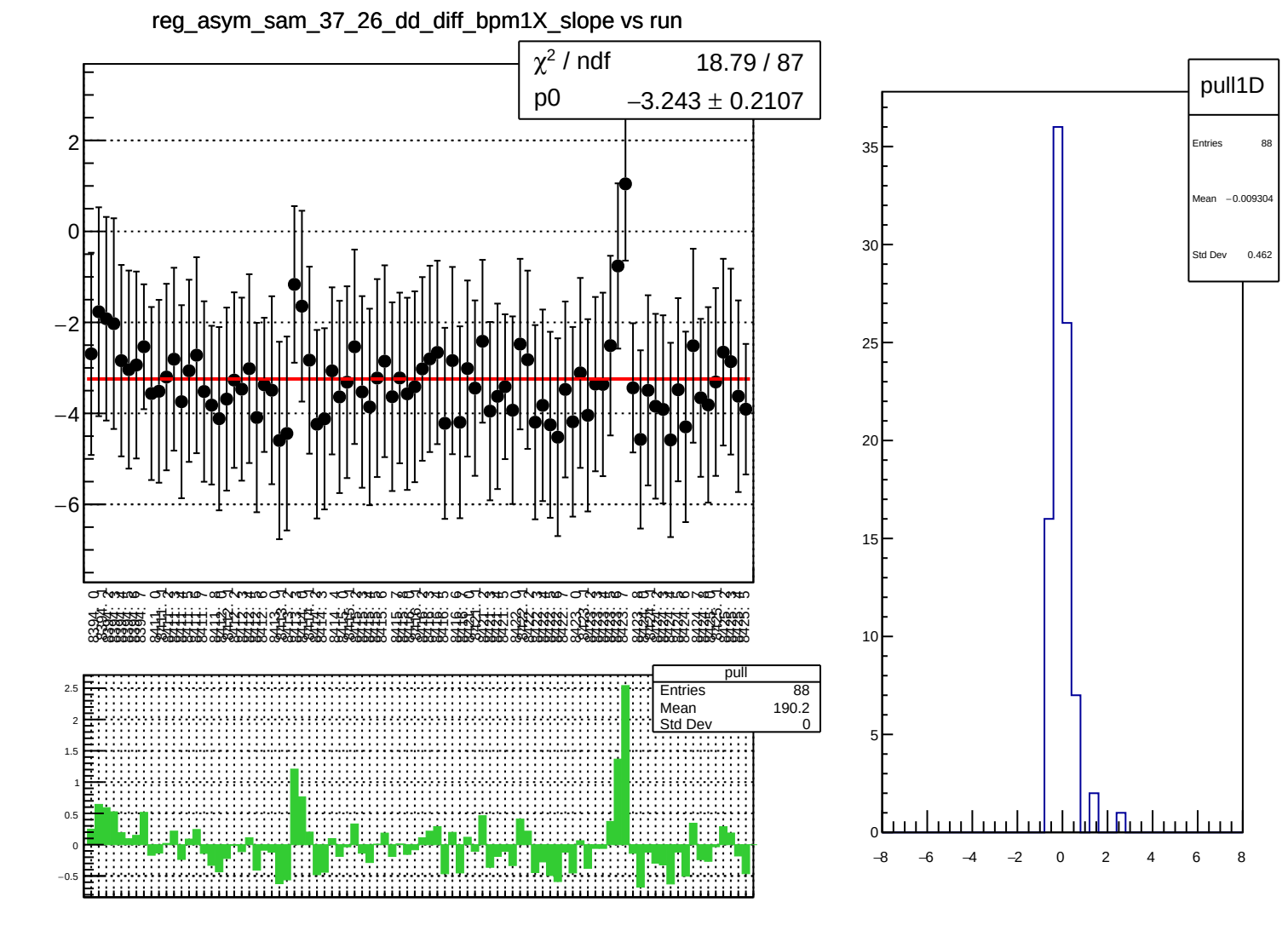

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.733 / 87
p0 27.6 ± 1.455
pull
Entries 88
Mean 163.2
Std Dev 0
pull1D
Entries 88
Mean 0.005872
Std Dev 0.1402

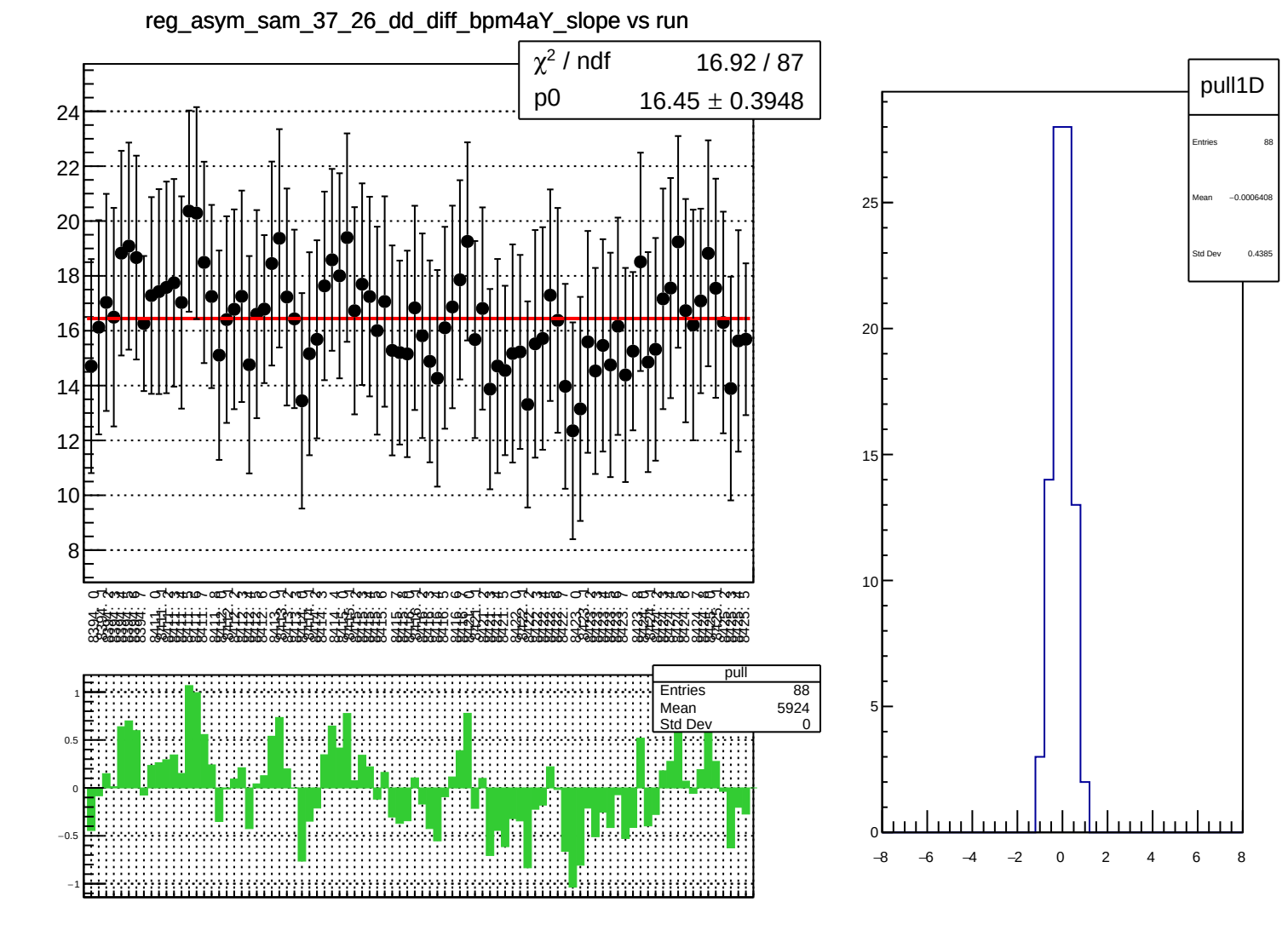

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.383 / 87
p0 33.68 ± 0.872
pull
Entries 88
Mean −6315
Std Dev 0

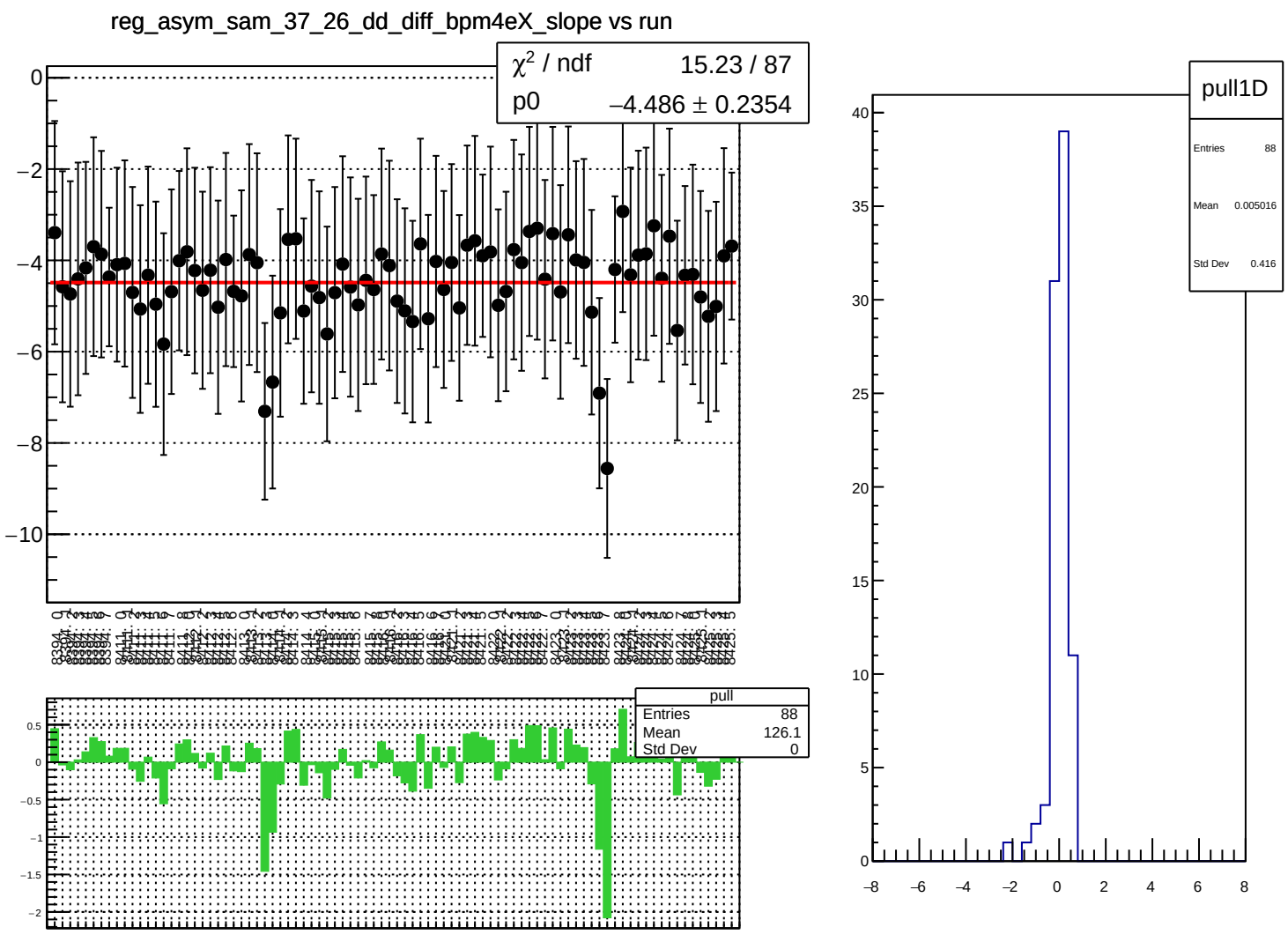

pull1D
Entries 88
Mean −0.0002895
Std Dev 0.1646

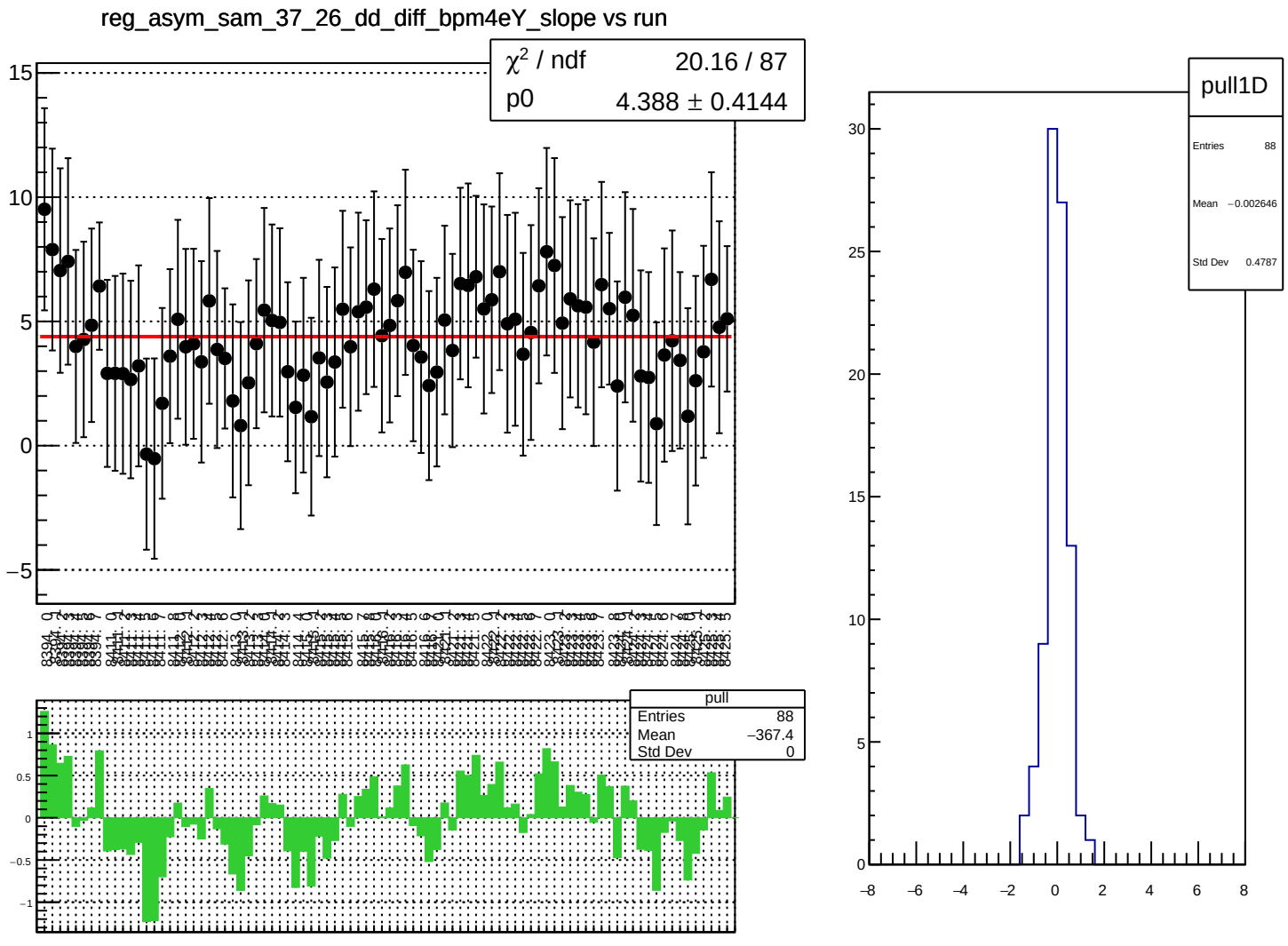

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.817 / 87
p0 18.33 ± 1.526
pull
Entries 88
Mean 194.4
Std Dev 0
pull1D
Entries 88
Mean −0.01311
Std Dev 0.1784

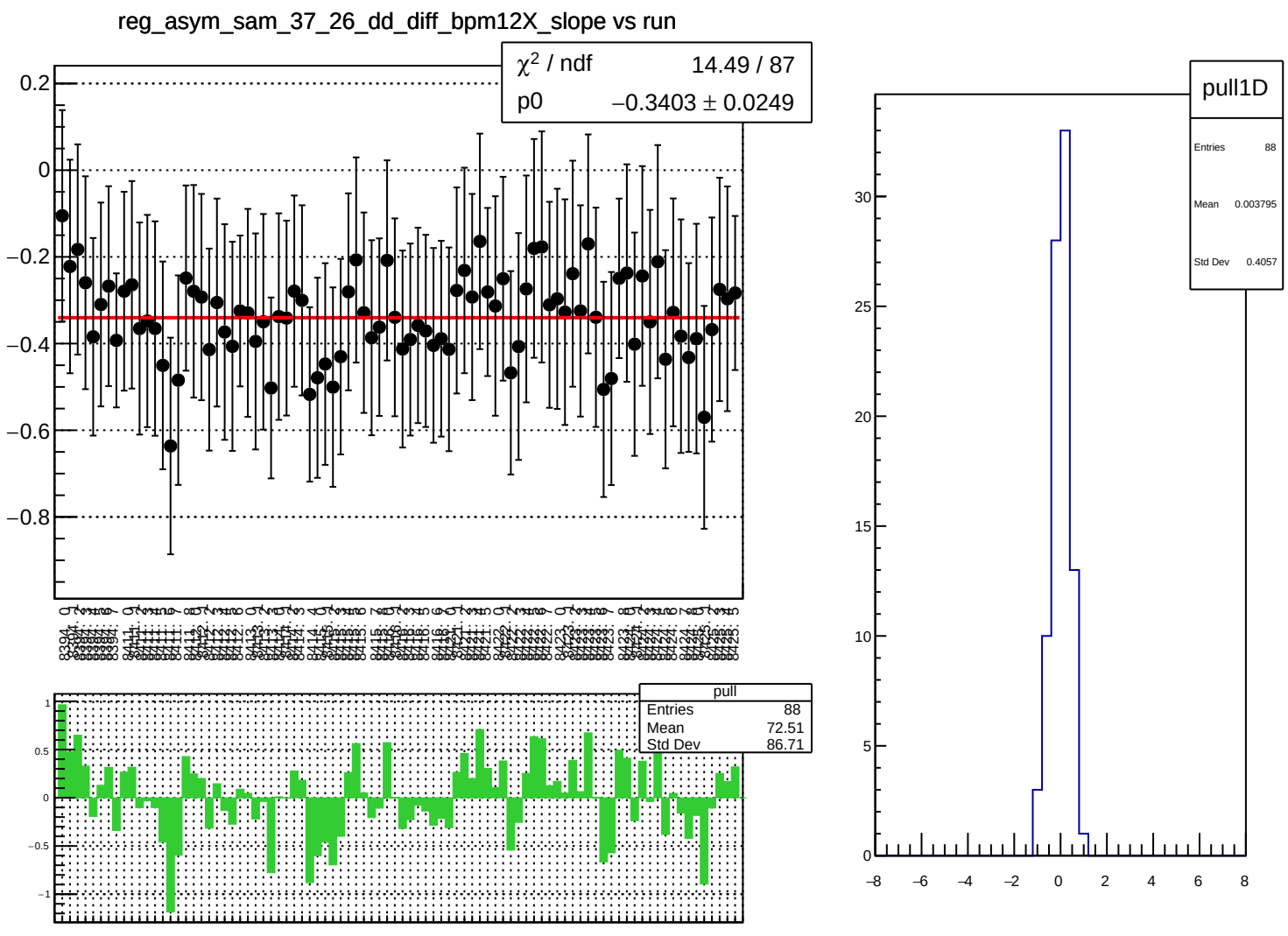

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 1.617 / 87
p0 −1.4 ± 0.09157
pull
Entries 88
Mean 282.7
Std Dev 0
pull1D
Entries 88
Mean −0.003252
Std Dev 0.1355

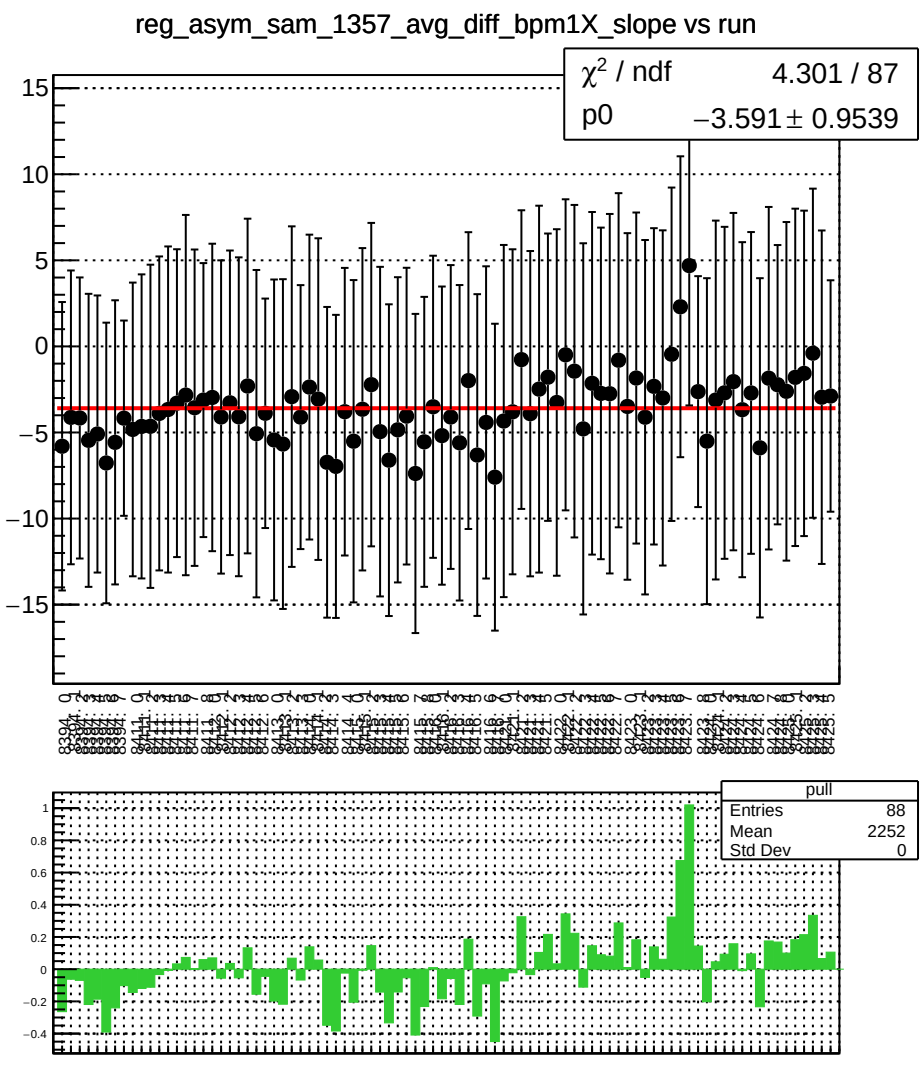

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 18.79 / 87
p0 −3.243 ± 0.2107
pull
Entries 88
Mean 190.2
Std Dev 0
pull1D
Entries 88
Mean −0.009304
Std Dev 0.462

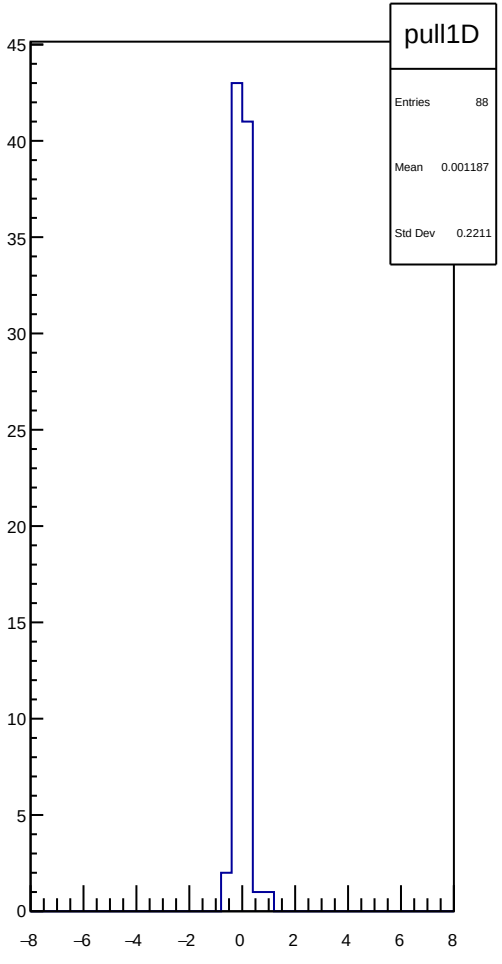

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.92 / 87
p0 16.45 ± 0.3948
pull
Entries 88
Mean 5924
Std Dev 0
pull1D
Entries 88
Mean −0.0006408
Std Dev 0.4385

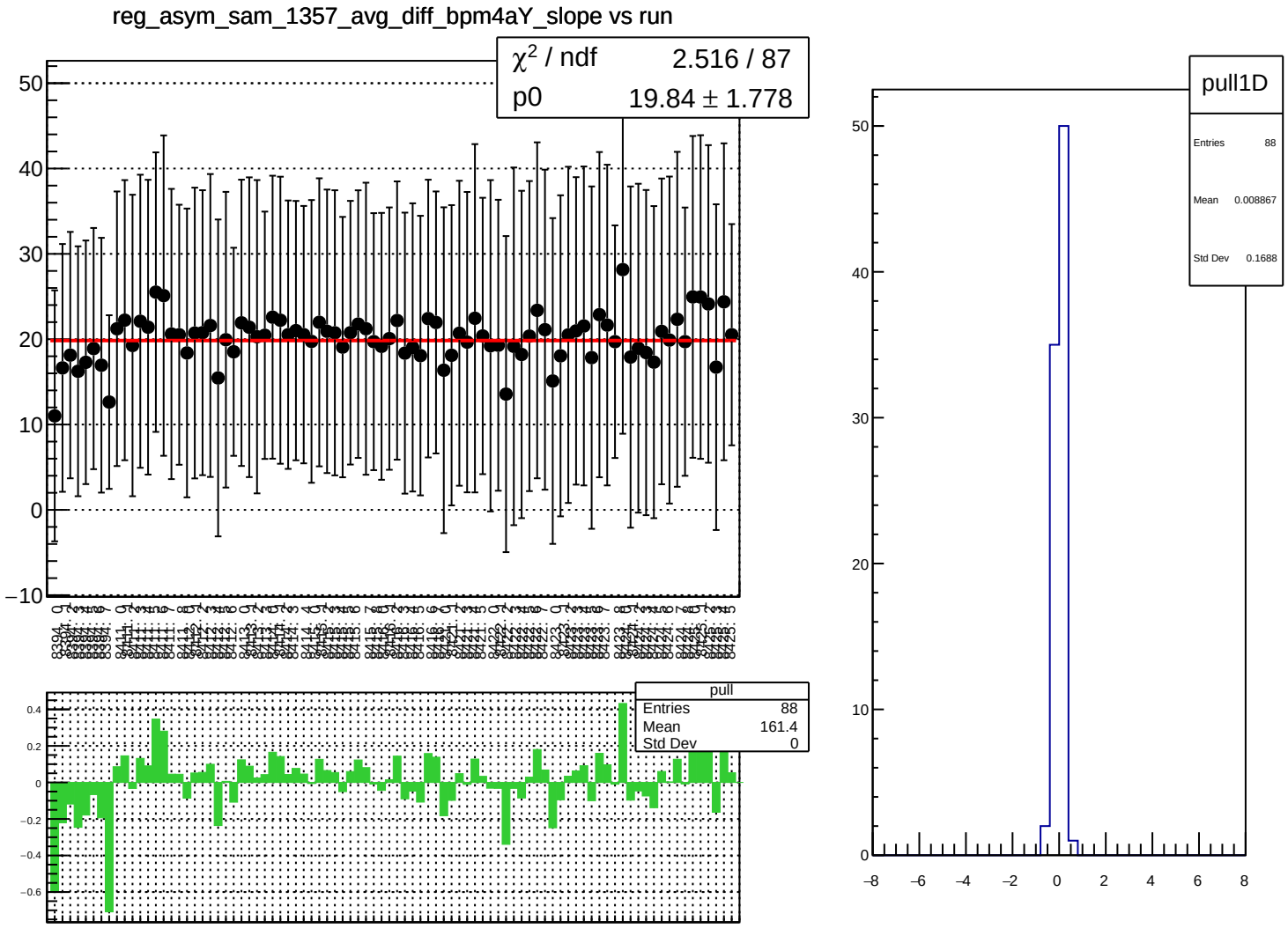

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.23 / 87
p0 −4.486 ± 0.2354
pull
Entries 88
Mean 126.1
Std Dev 0
pull1D
Entries 88
Mean 0.005016
Std Dev 0.416

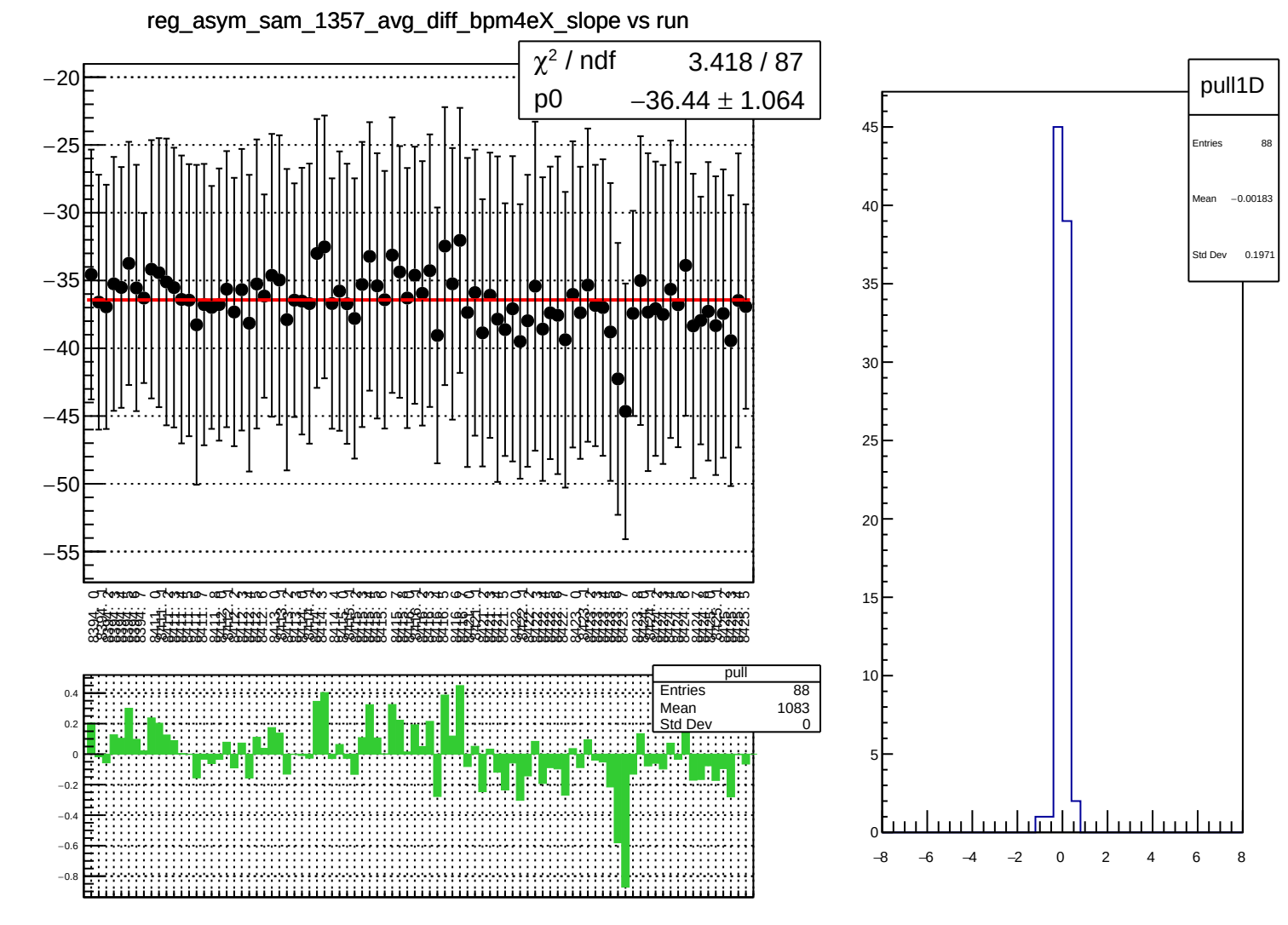

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.16 / 87
p0 4.388 ± 0.4144
pull
Entries 88
Mean −367.4
Std Dev 0
pull1D
Entries 88
Mean −0.002646
Std Dev 0.4787

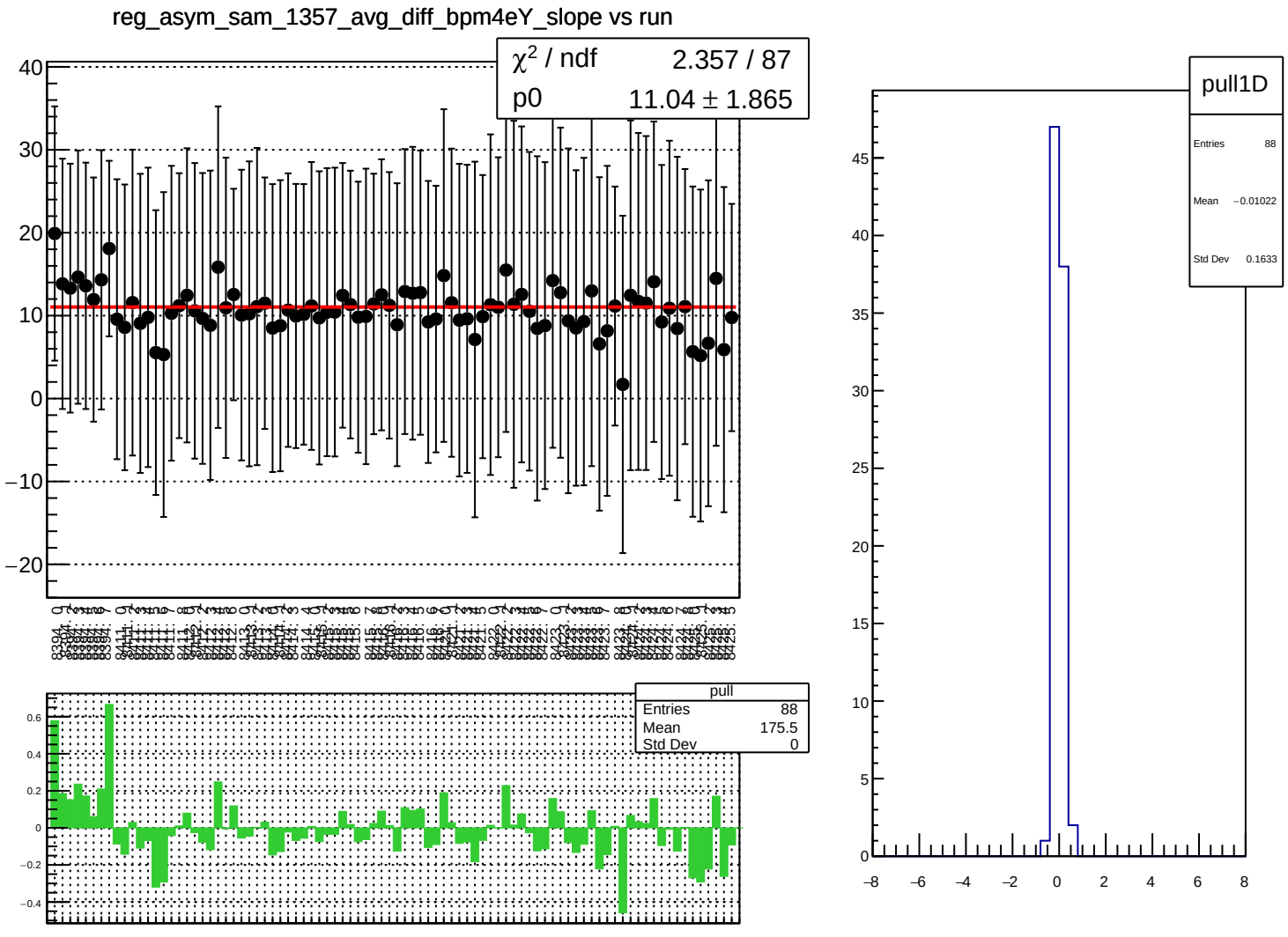

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 14.49 / 87
p0 −0.3403 ± 0.0249
pull
Entries 88
Mean 72.51
Std Dev 86.71
pull1D
Entries 88
Mean 0.003795
Std Dev 0.4057

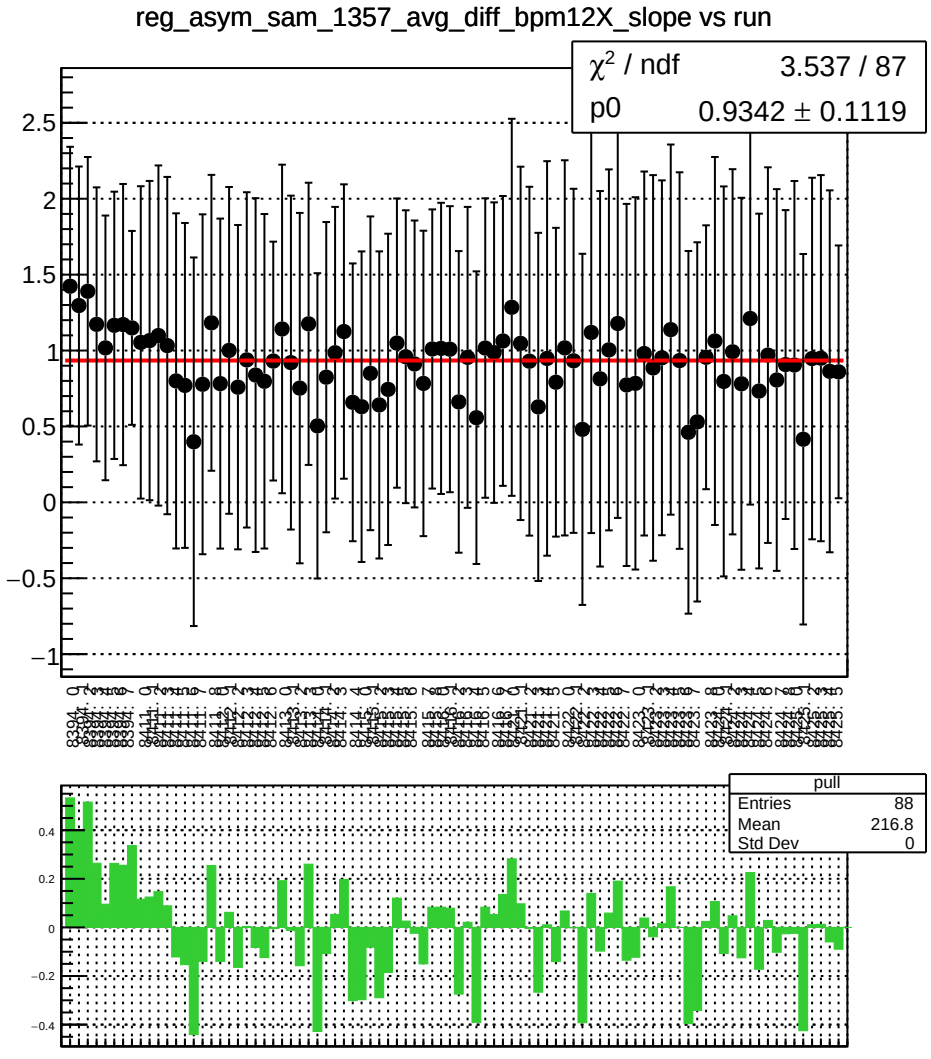

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 4.301 / 87
p0 −3.591 ± 0.9539
pull
Entries 88
Mean 2252
Std Dev 0

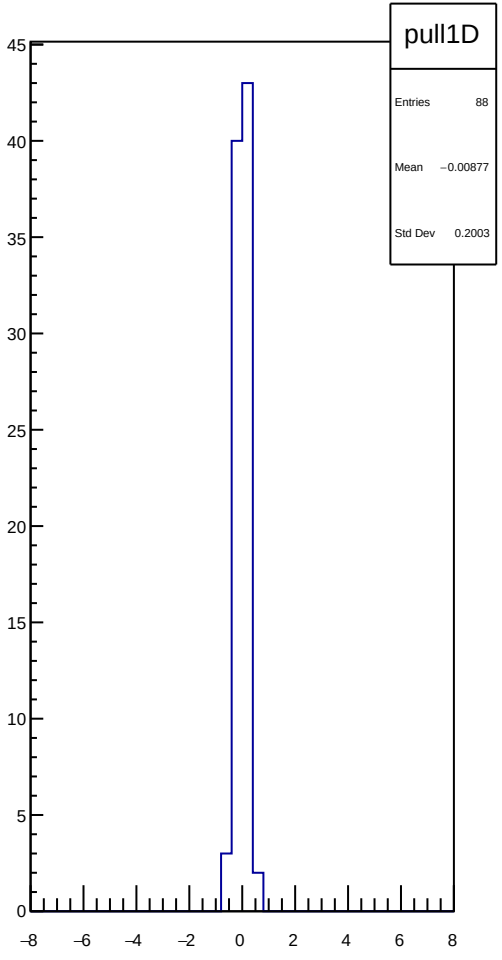

pull1D
Entries 88
Mean 0.001187
Std Dev 0.2211

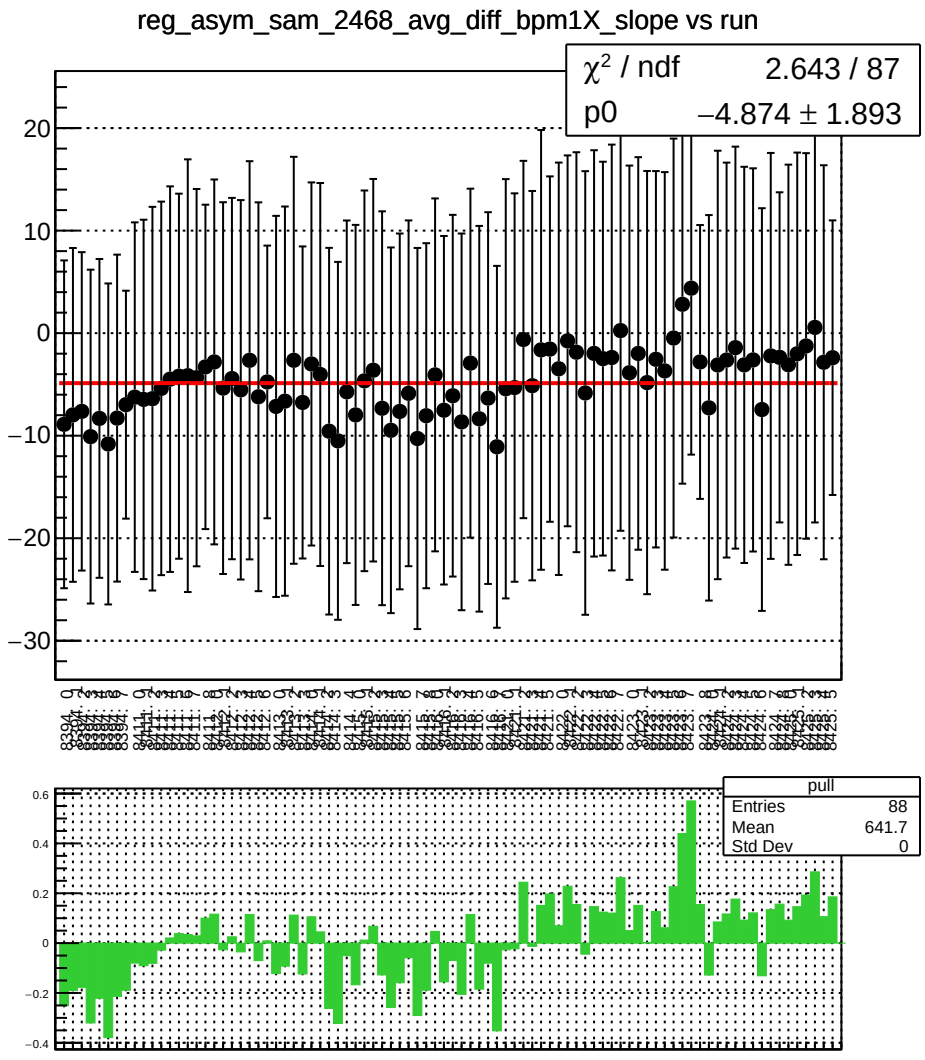

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.516 / 87
p0 19.84 ± 1.778
pull
Entries 88
Mean 161.4
Std Dev 0
pull1D
Entries 88
Mean 0.008867
Std Dev 0.1688

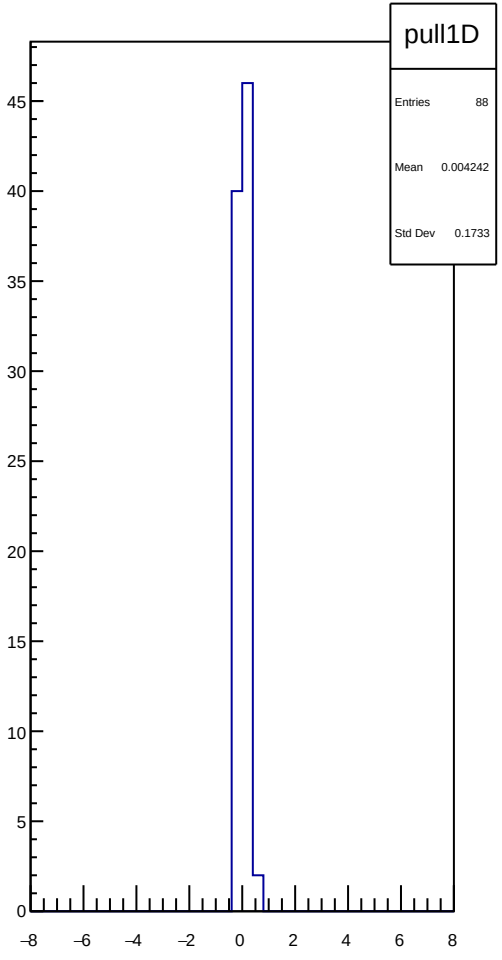

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.418 / 87
p0 −36.44 ± 1.064
pull
Entries 88
Mean 1083
Std Dev 0
pull1D
Entries 88
Mean −0.00183
Std Dev 0.1971

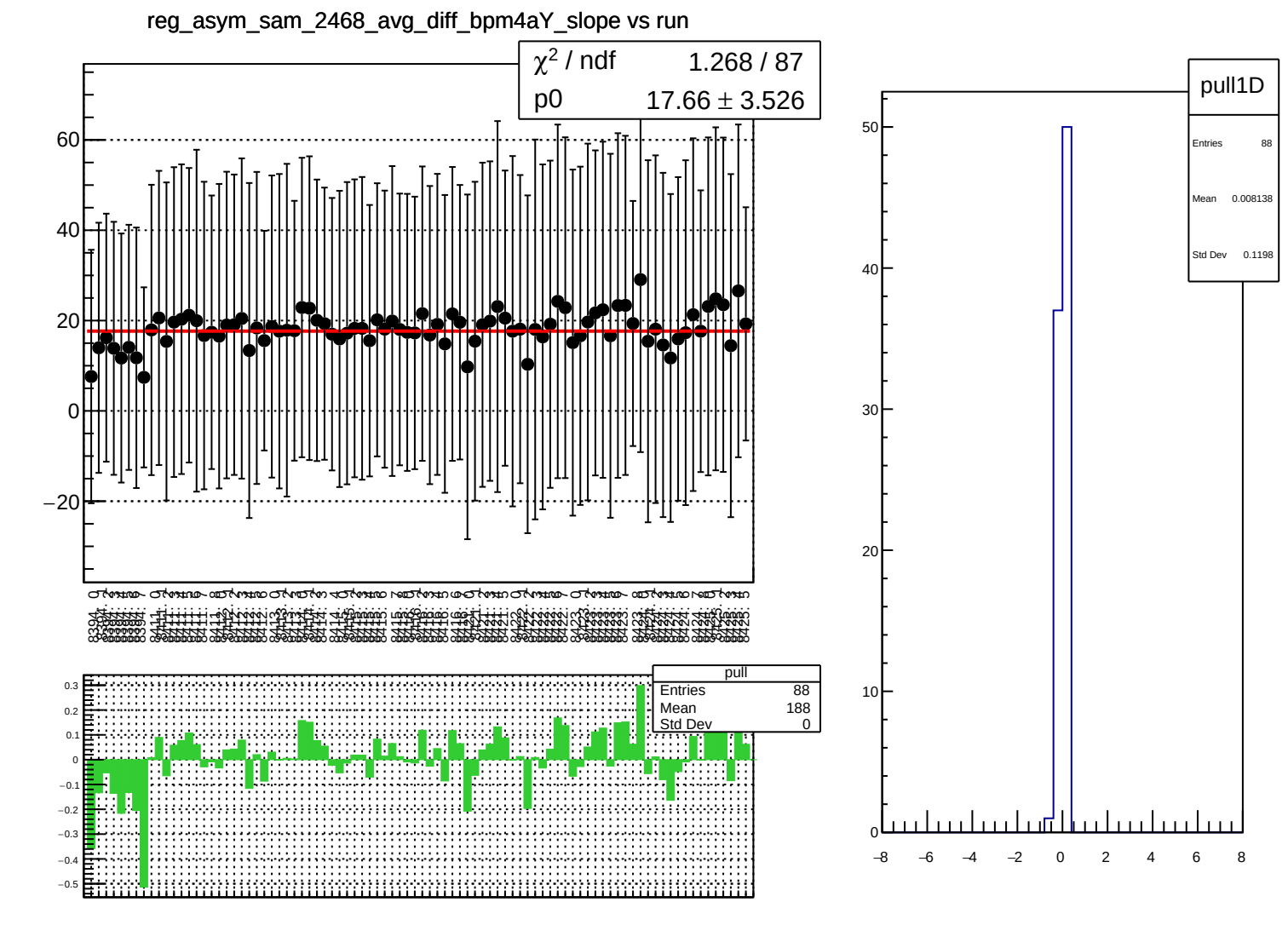

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.357 / 87
p0 11.04 ± 1.865
pull
Entries 88
Mean 175.5
Std Dev 0
pull1D
Entries 88
Mean −0.01022
Std Dev 0.1633

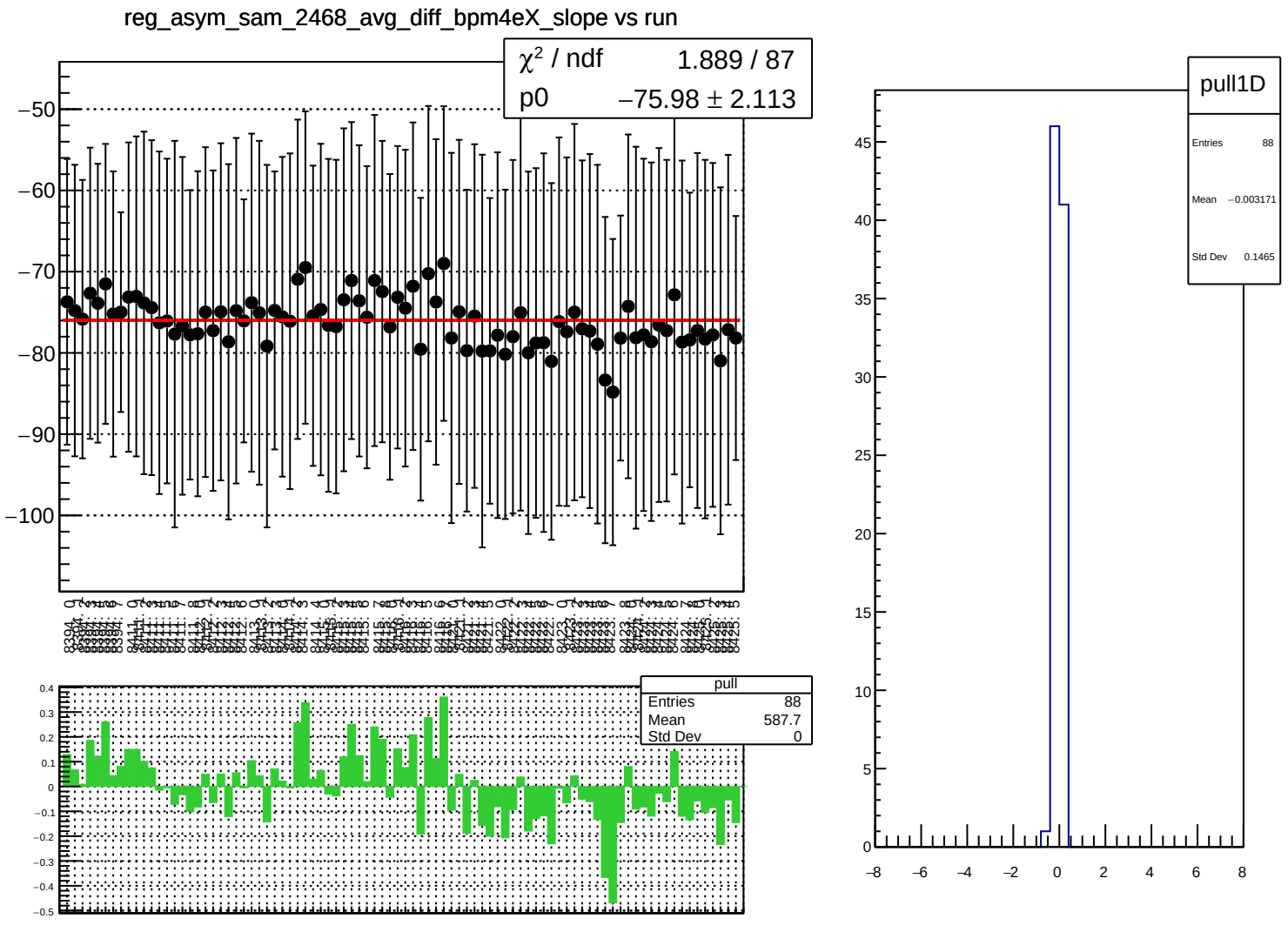

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 3.537 / 87
p0 0.9342 ± 0.1119
pull
Entries 88
Mean 216.8
Std Dev 0

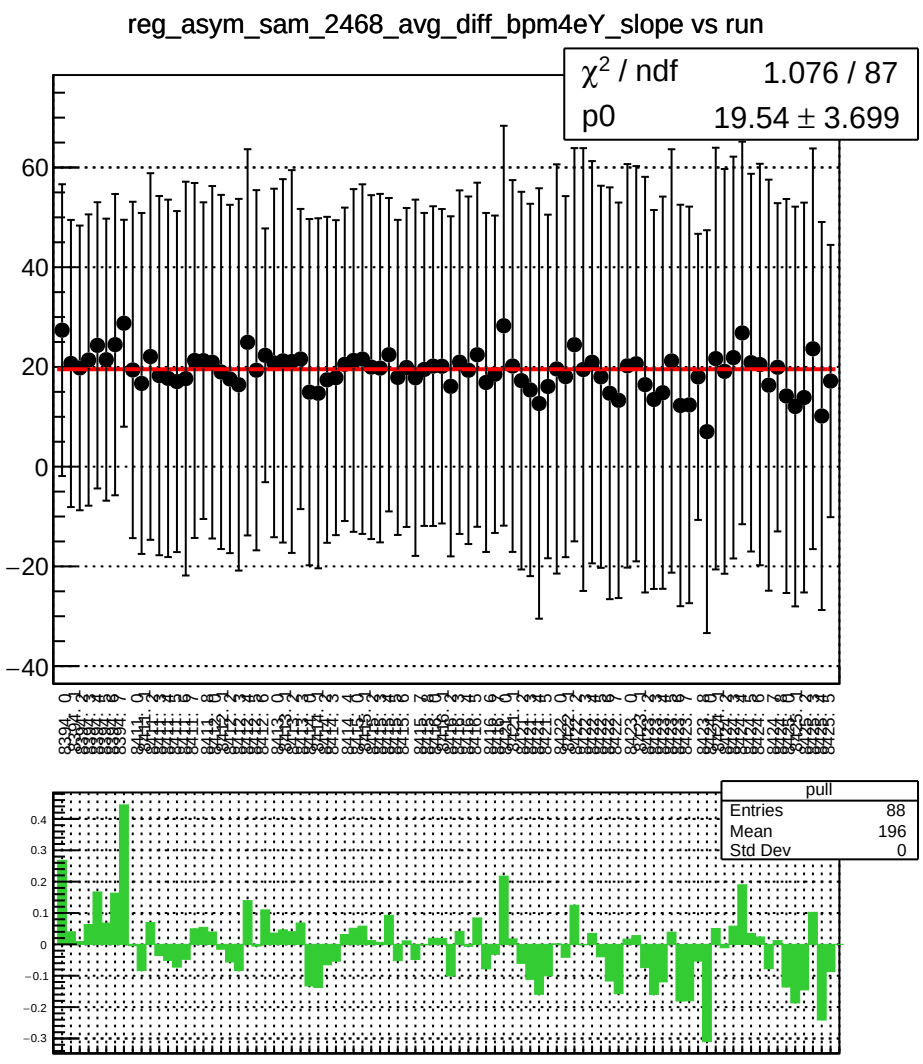

pull1D
Entries 88
Mean −0.00877
Std Dev 0.2003

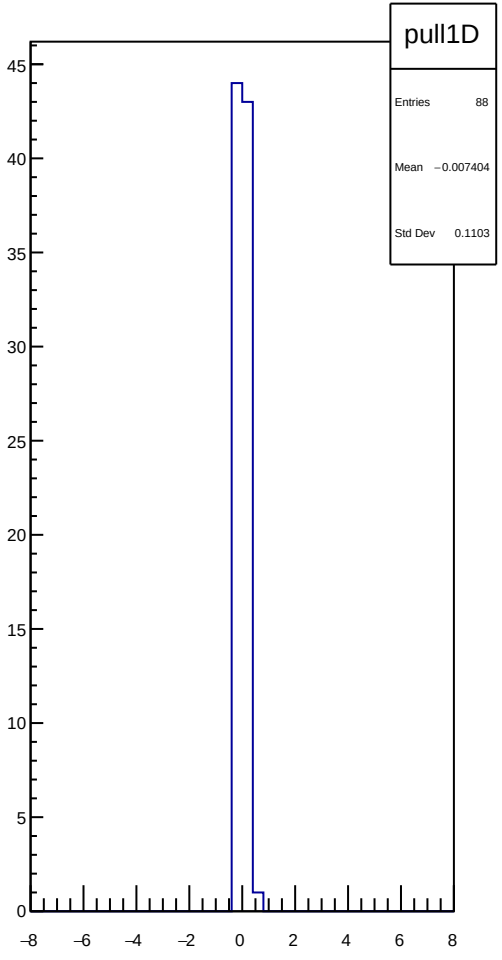

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 2.643 / 87
p0 −4.874 ± 1.893
pull
Entries 88
Mean 641.7
Std Dev 0

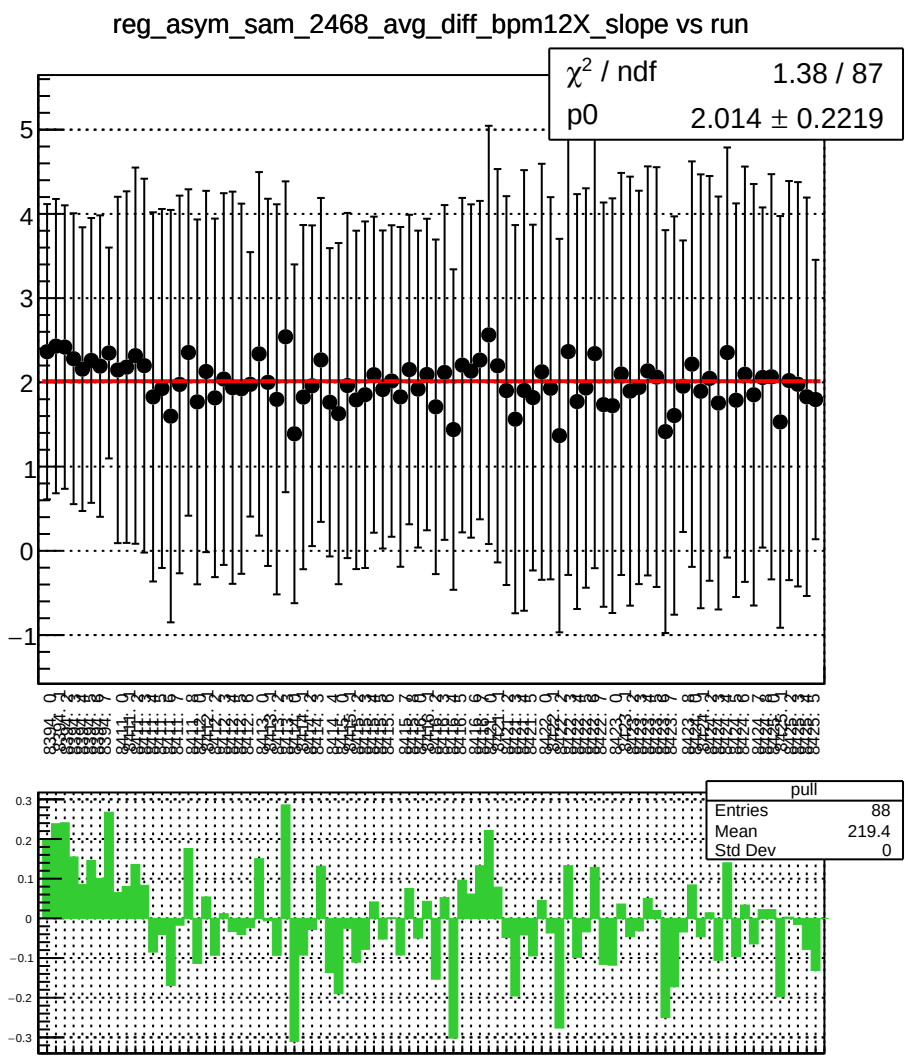

pull1D
Entries 88
Mean 0.004242
Std Dev 0.1733

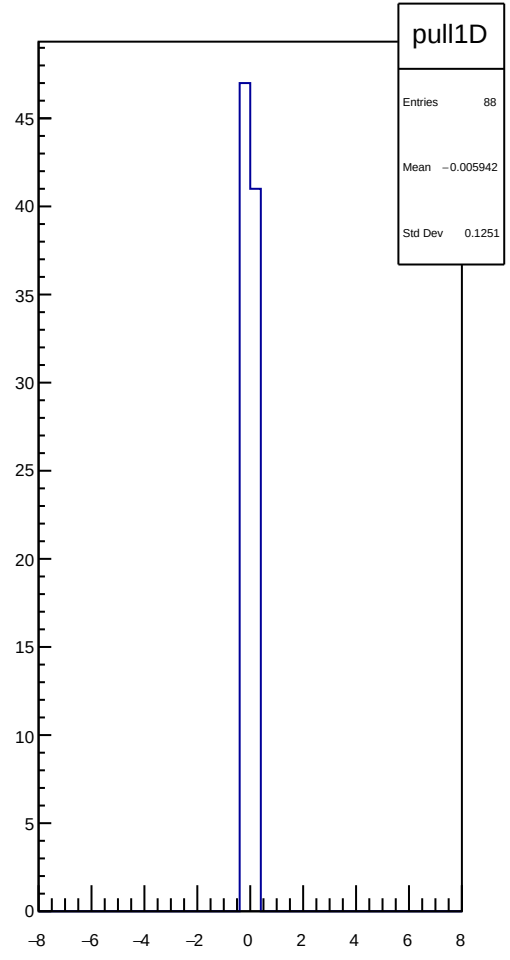

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.268 / 87
p0 17.66 ± 3.526
pull
Entries 88
Mean 188
Std Dev 0
pull1D
Entries 88
Mean 0.008138
Std Dev 0.1198

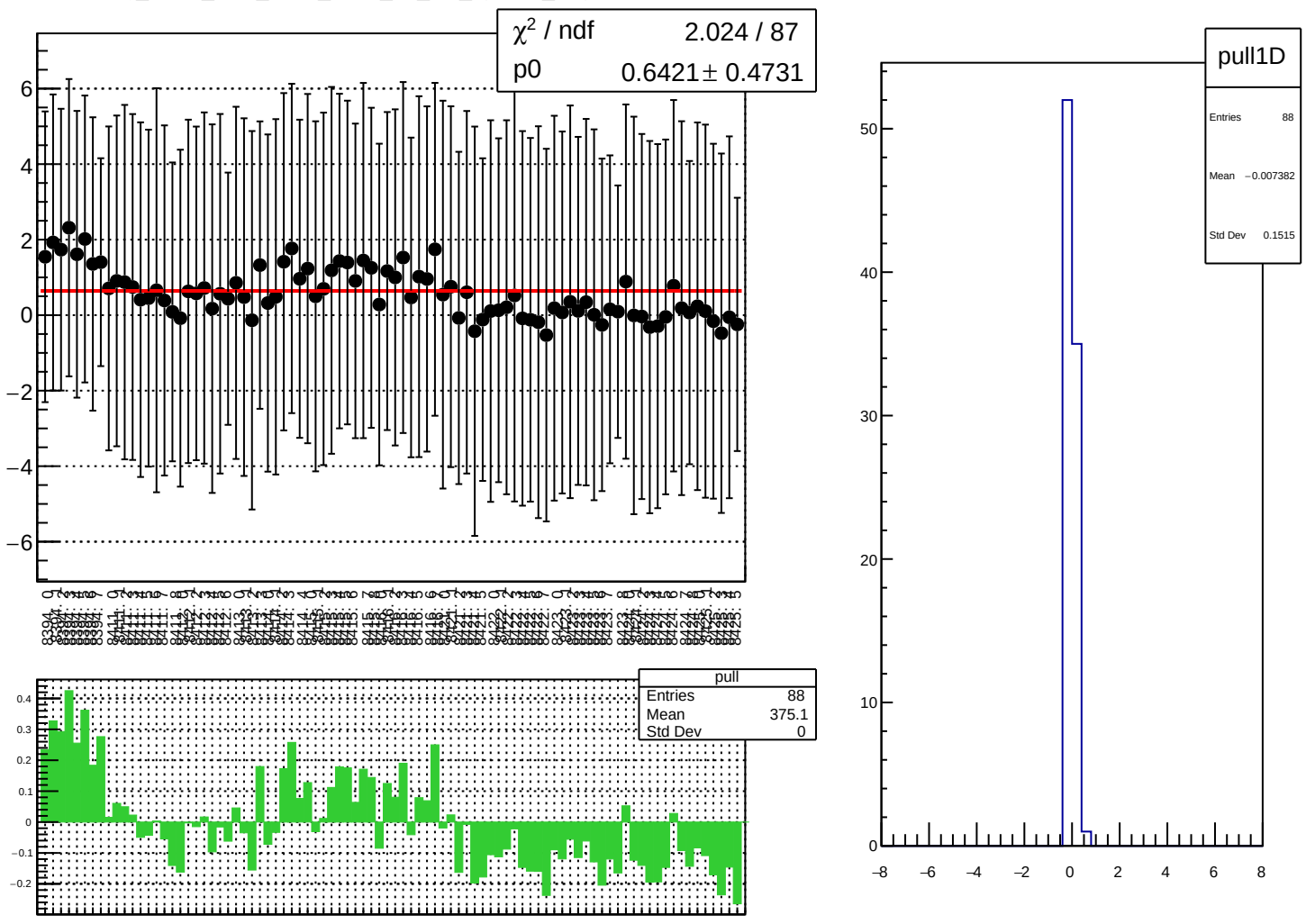

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.889 / 87
p0 −75.98 ± 2.113
pull
Entries 88
Mean 587.7
Std Dev 0
pull1D
Entries 88
Mean −0.003171
Std Dev 0.1465

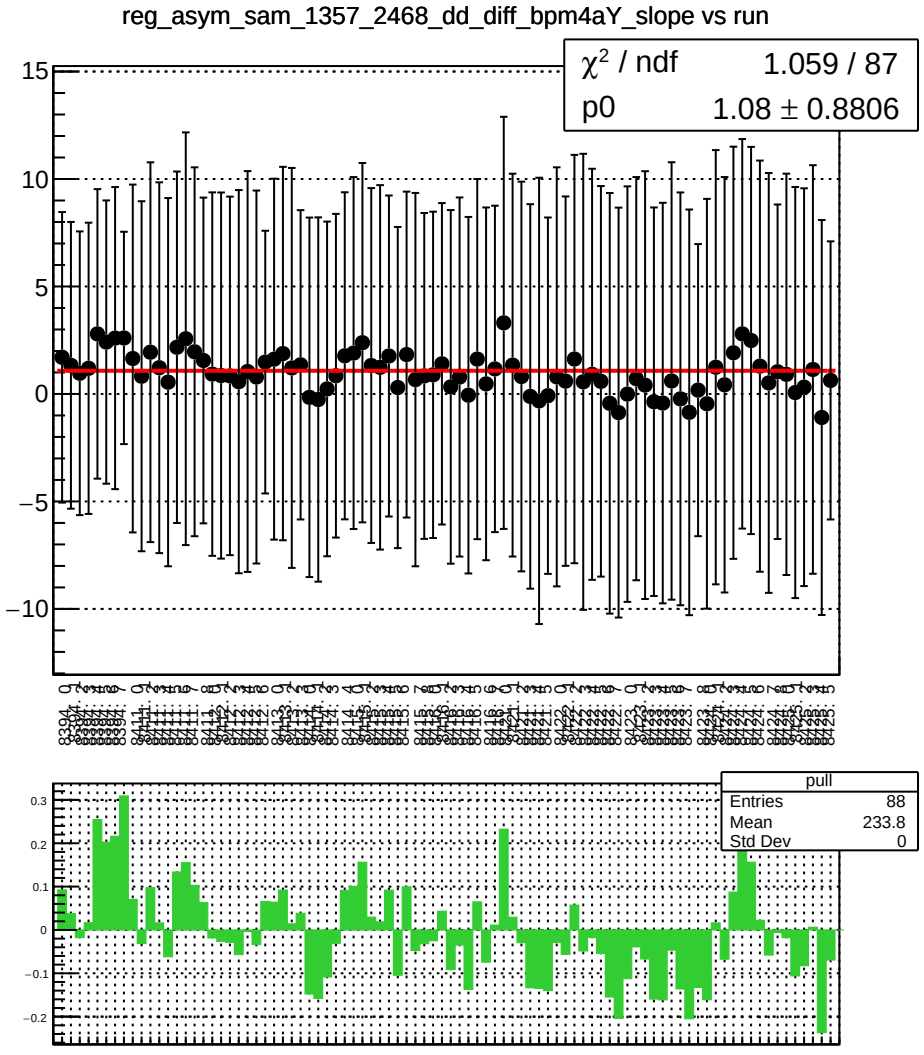

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.076 / 87
p0 19.54 ± 3.699
pull
Entries 88
Mean 196
Std Dev 0

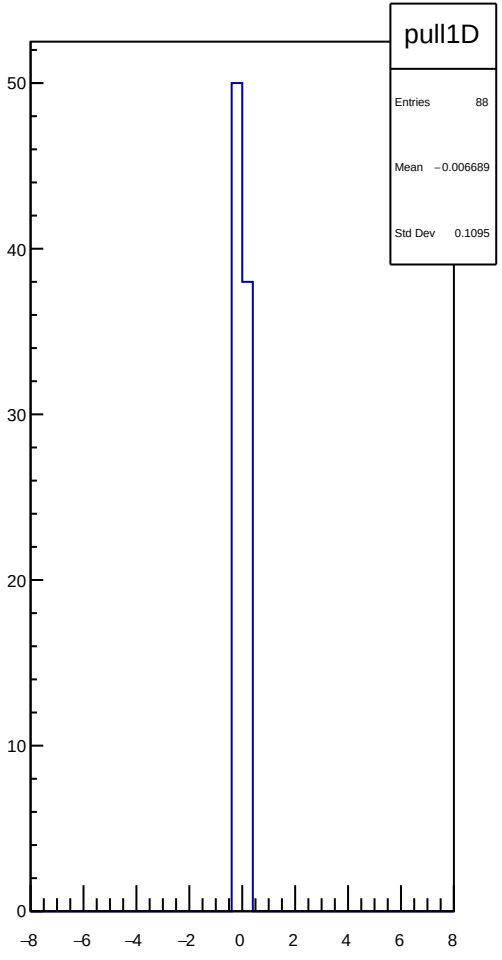

pull1D
Entries 88
Mean −0.007404
Std Dev 0.1103

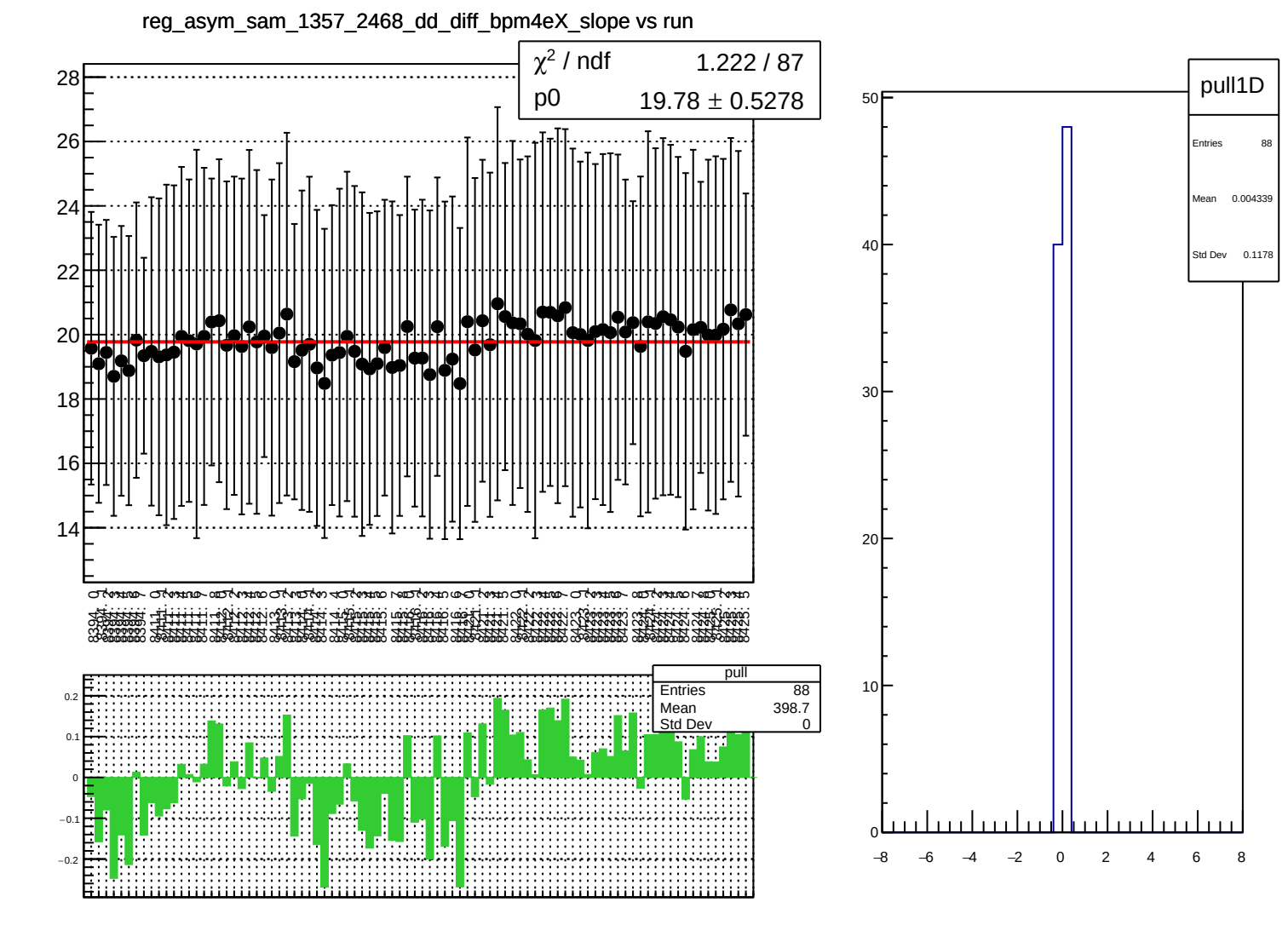

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 1.38 / 87
p0 2.014 ± 0.2219
pull
Entries 88
Mean 219.4
Std Dev 0

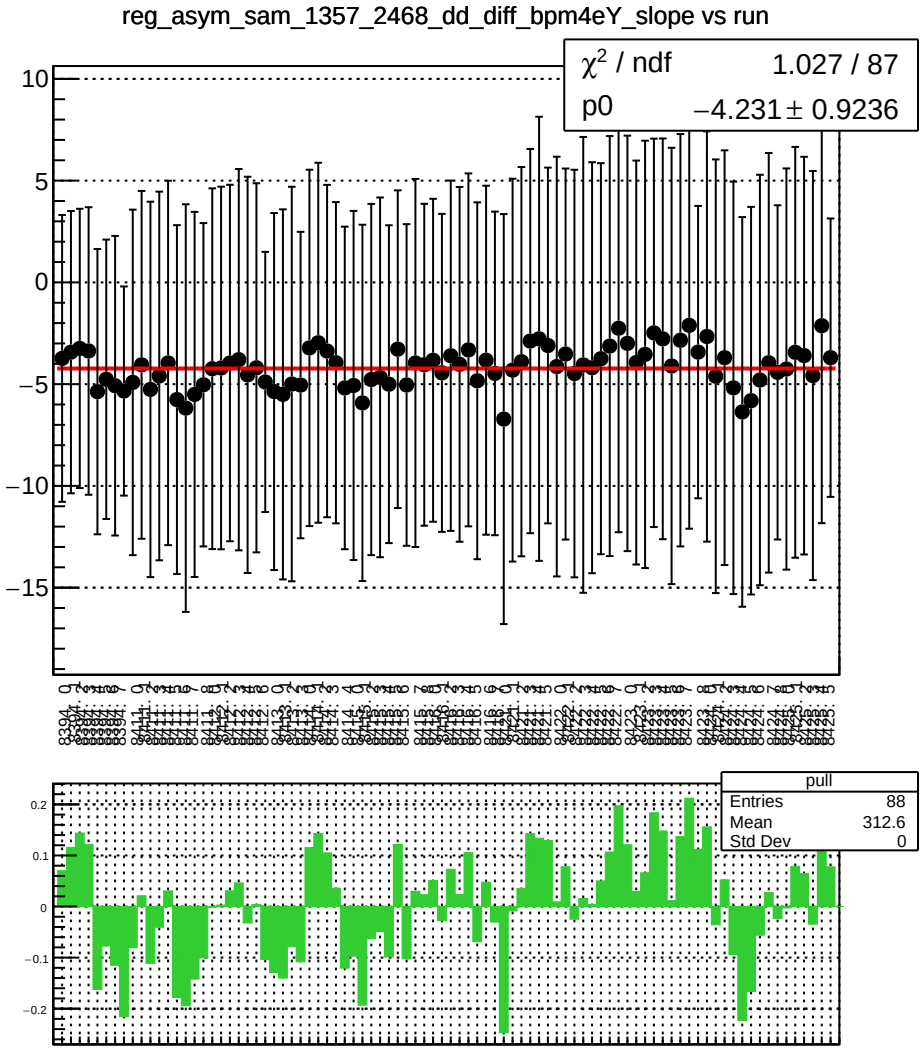

pull1D
Entries 88
Mean −0.005942
Std Dev 0.1251

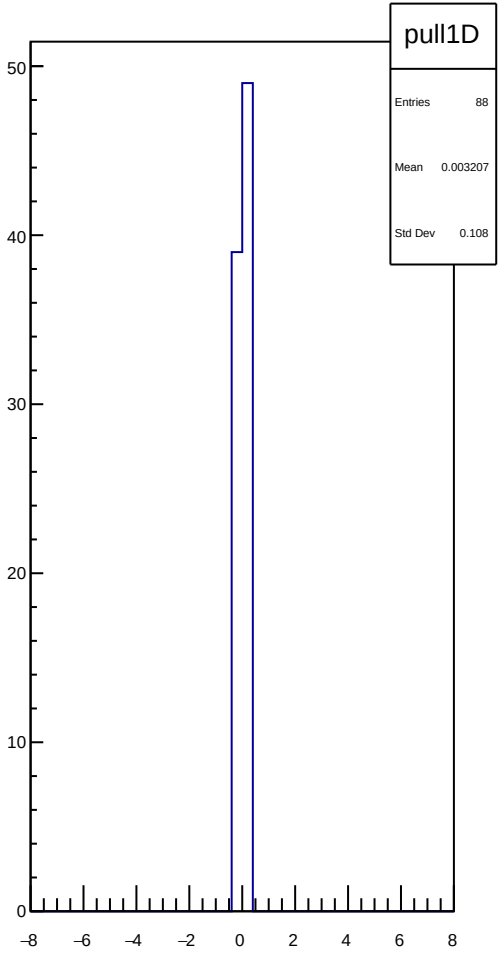

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 2.024 / 87
p0 0.6421 ± 0.4731
pull
Entries 88
Mean 375.1
Std Dev 0
pull1D
Entries 88
Mean −0.007382
Std Dev 0.1515

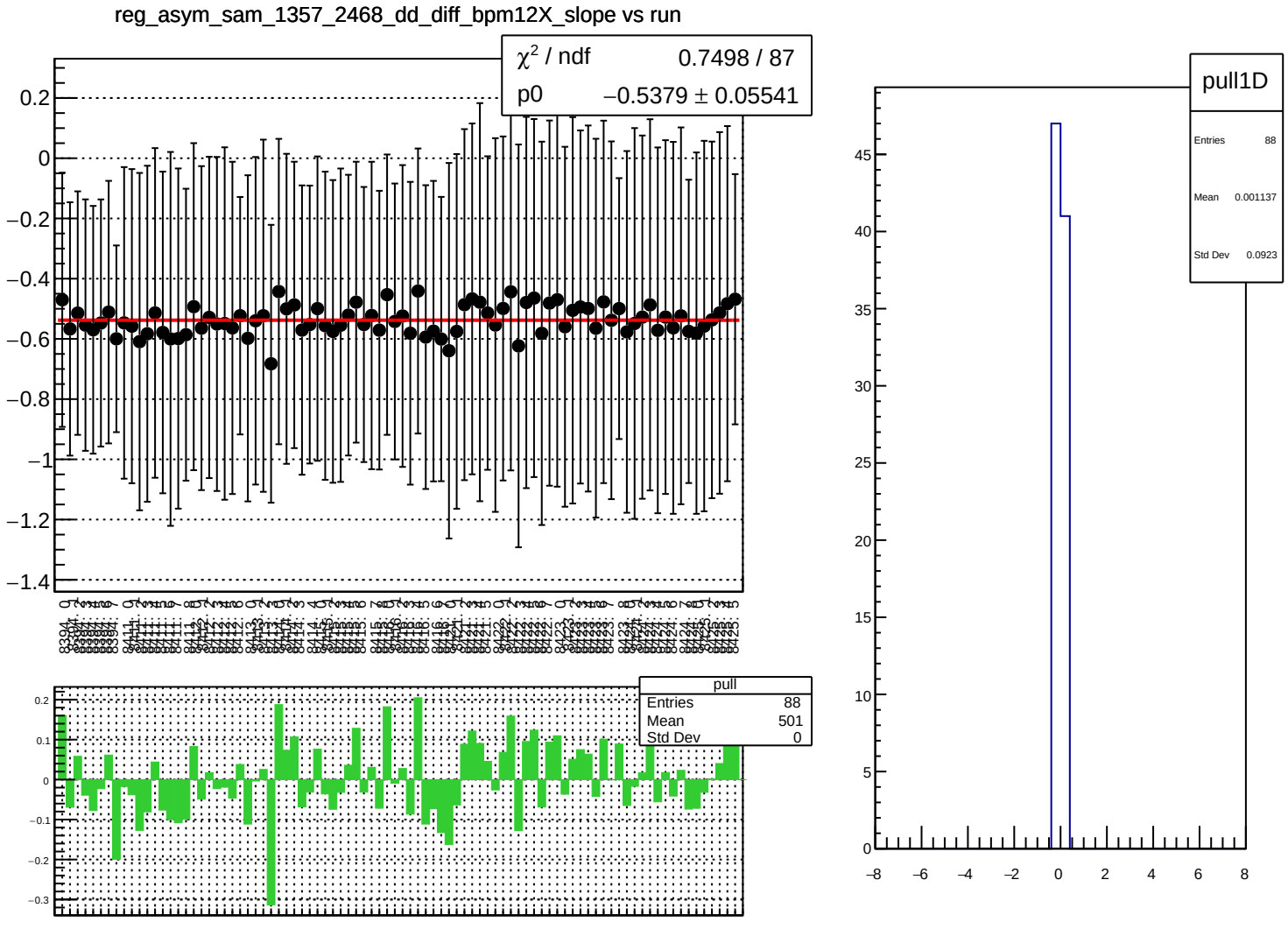

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.059 / 87
p0 1.08 ± 0.8806
pull
Entries 88
Mean 233.8
Std Dev 0

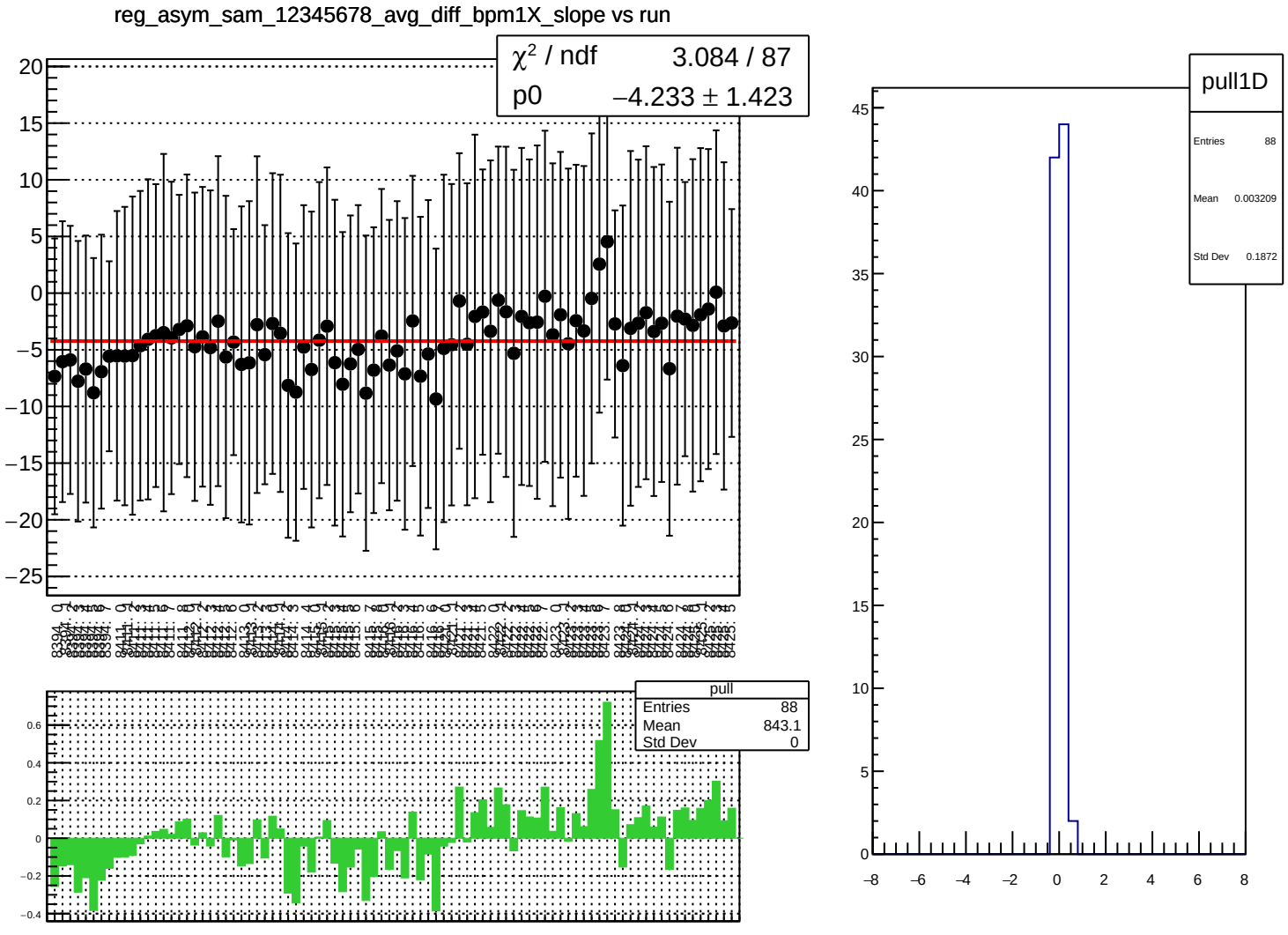

pull1D
Entries 88
Mean −0.006689
Std Dev 0.1095

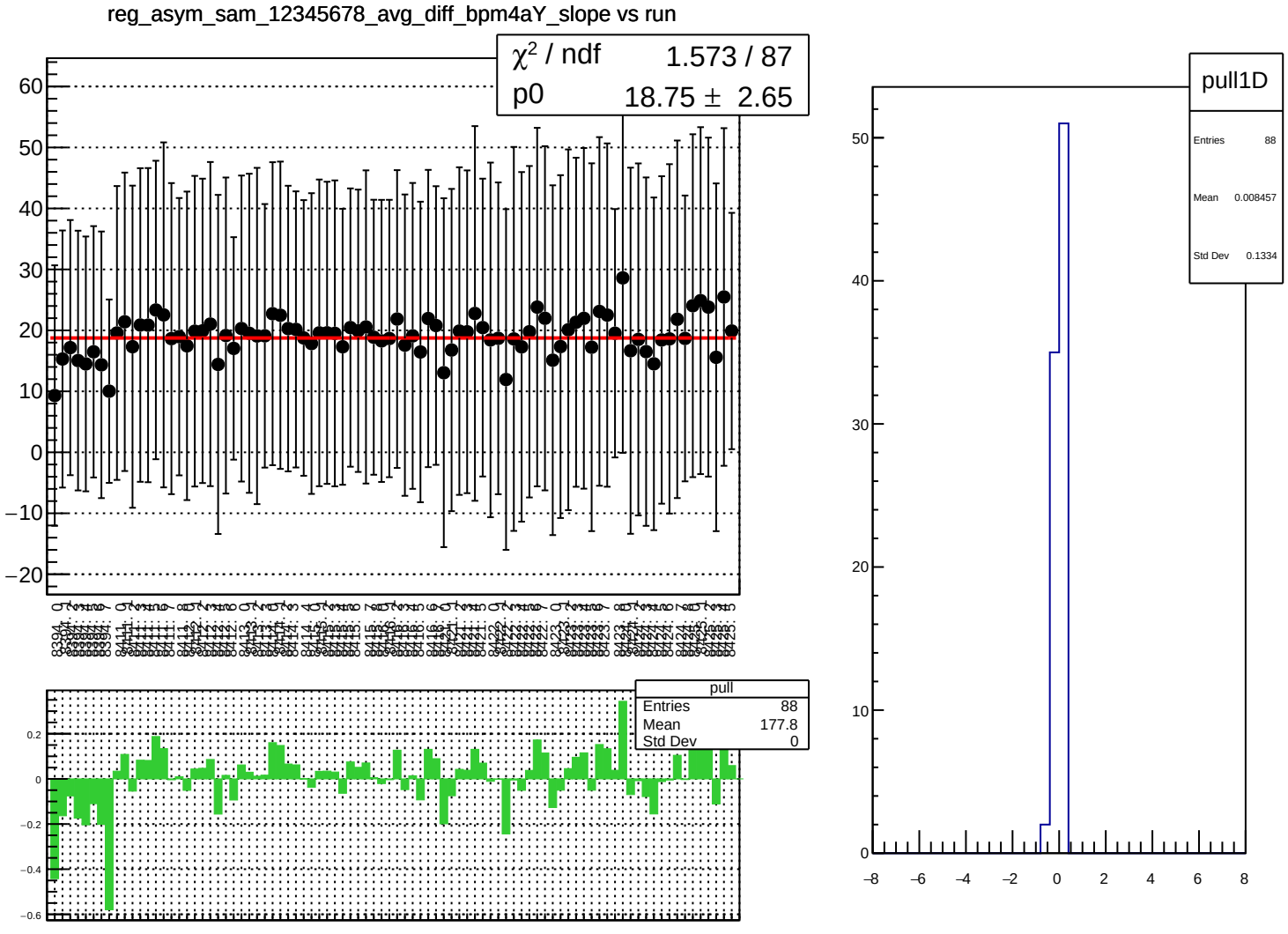

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.222 / 87
p0 19.78 ± 0.5278
pull
Entries 88
Mean 398.7
Std Dev 0
pull1D
Entries 88
Mean 0.004339
Std Dev 0.1178

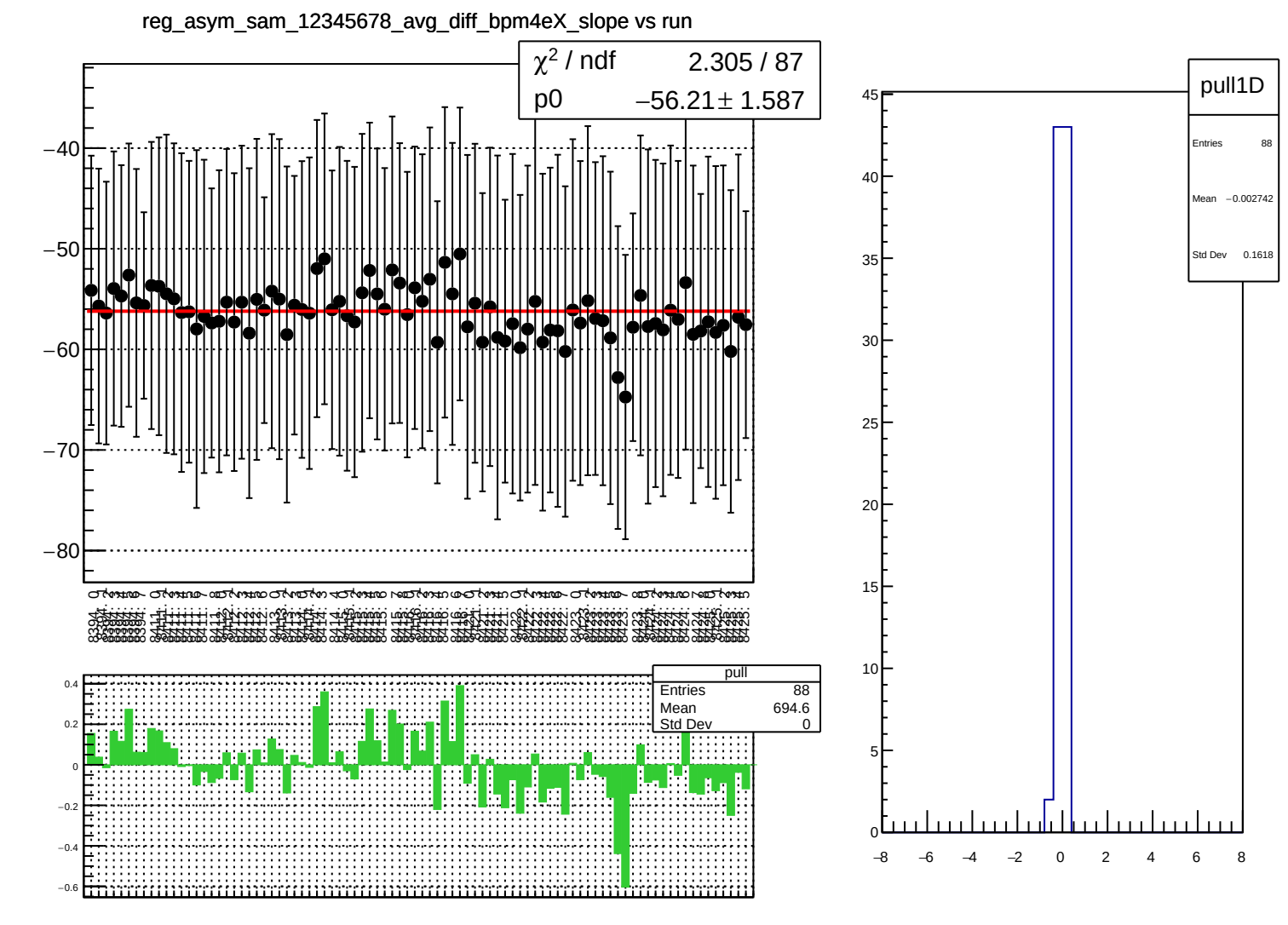

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.027 / 87
p0 −4.231 ± 0.9236
pull
Entries 88
Mean 312.6
Std Dev 0

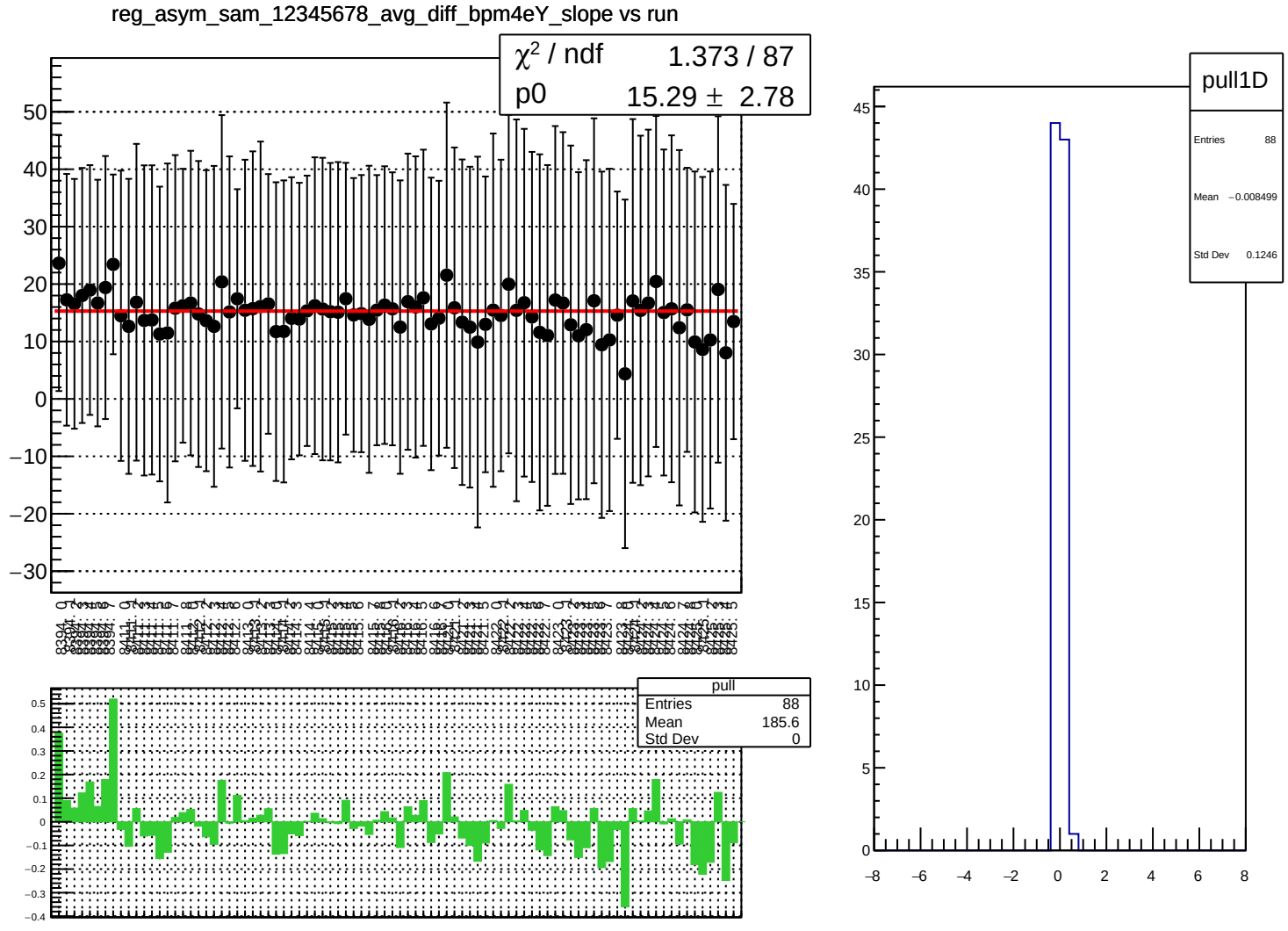

pull1D
Entries 88
Mean 0.003207
Std Dev 0.108

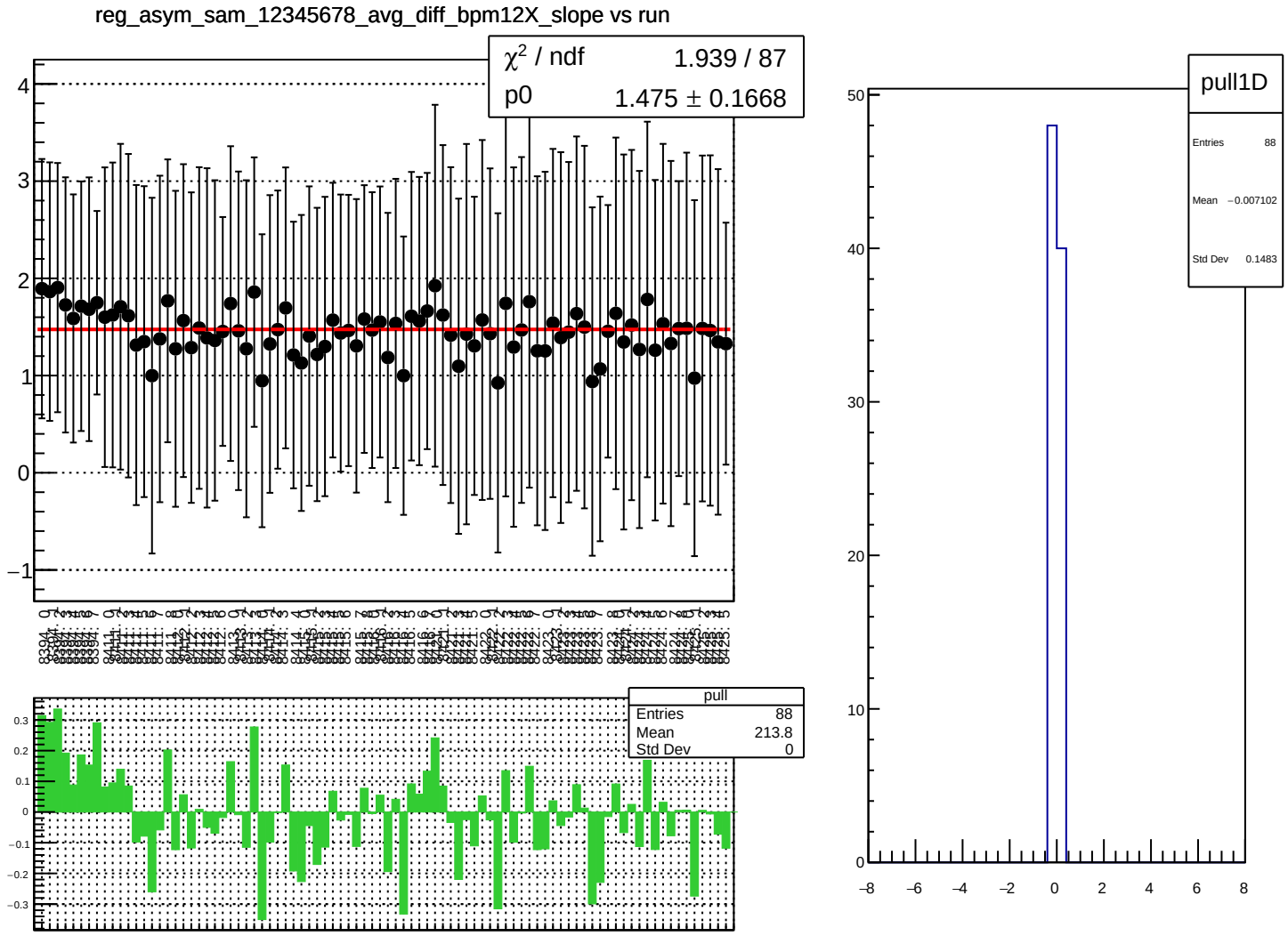

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 0.7498 / 87
p0 −0.5379 ± 0.05541
pull
Entries 88
Mean 501
Std Dev 0
pull1D
Entries 88
Mean 0.001137
Std Dev 0.0923

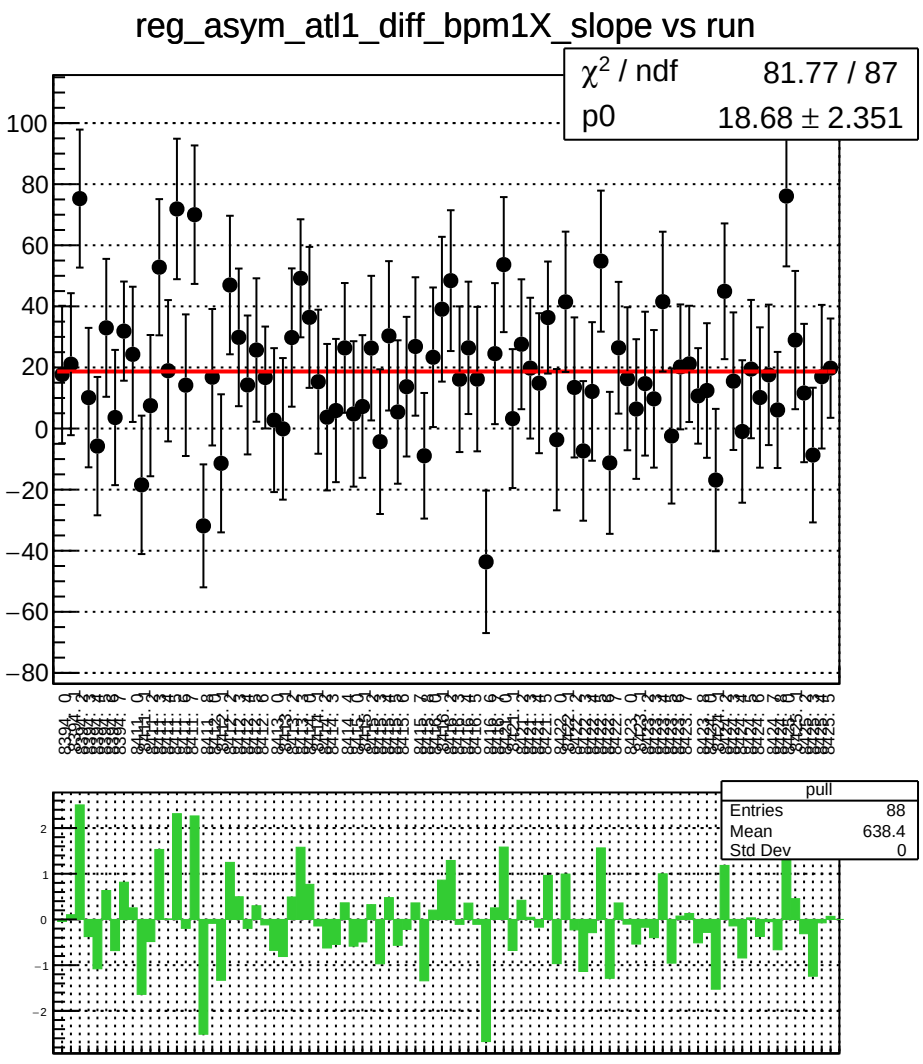

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 3.084 / 87
p0 −4.233 ± 1.423
pull
Entries 88
Mean 843.1
Std Dev 0
pull1D
Entries 88
Mean 0.003209
Std Dev 0.1872

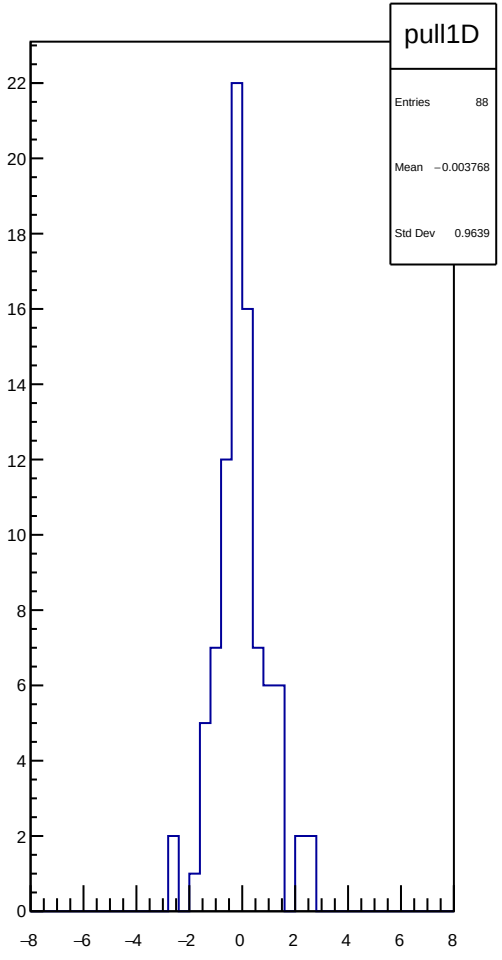

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.573 / 87
p0 18.75 ± 2.65
pull
Entries 88
Mean 177.8
Std Dev 0
pull1D
Entries 88
Mean 0.008457
Std Dev 0.1334

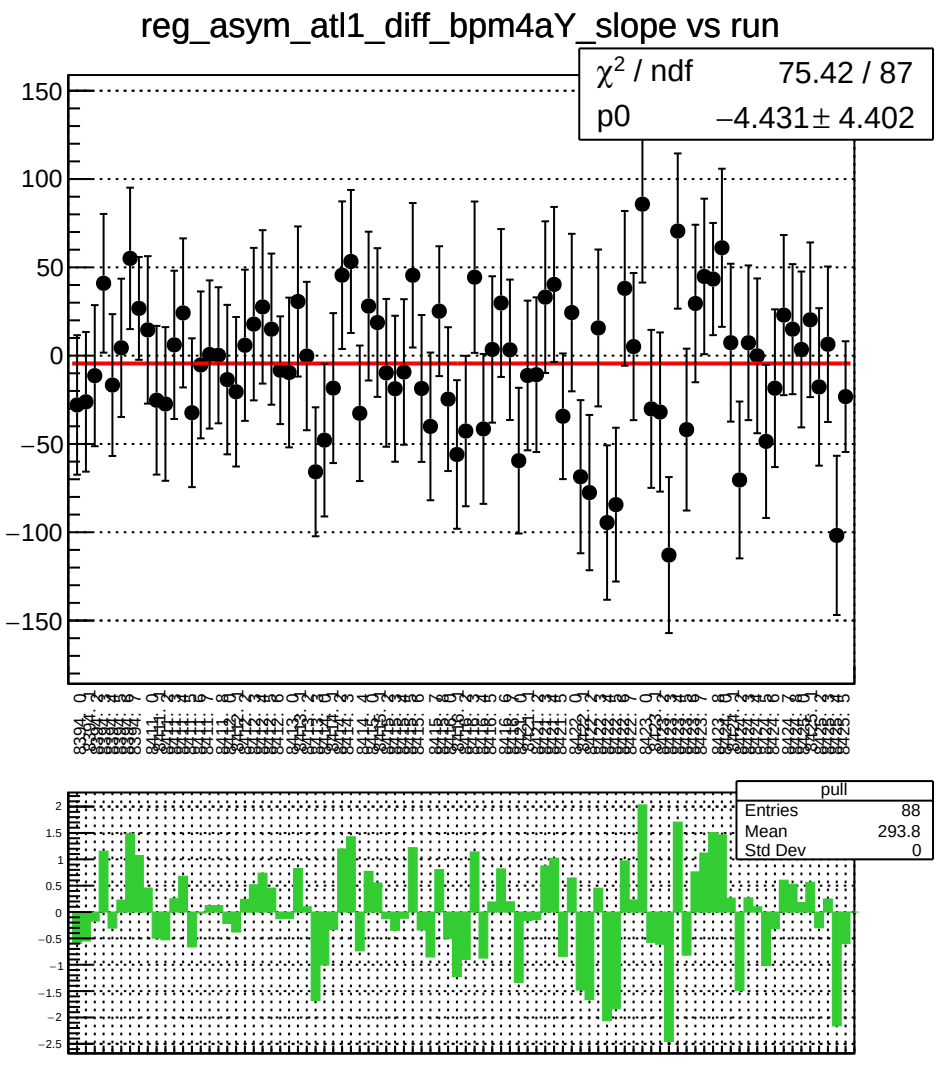

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.305 / 87
p0 −56.21 ± 1.587
pull
Entries 88
Mean 694.6
Std Dev 0
pull1D
Entries 88
Mean −0.002742
Std Dev 0.1618

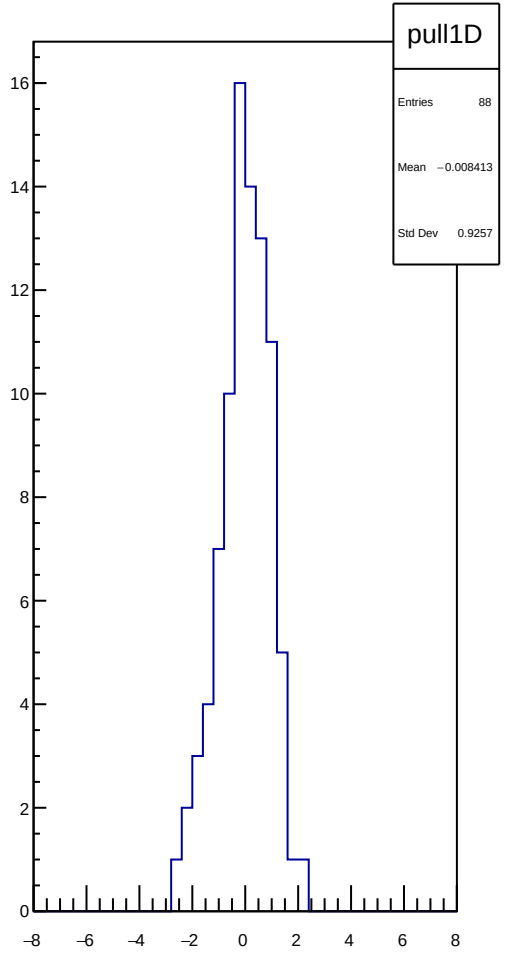

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.373 / 87
p0 15.29 ± 2.78
pull
Entries 88
Mean 185.6
Std Dev 0
pull1D
Entries 88
Mean −0.008499
Std Dev 0.1246

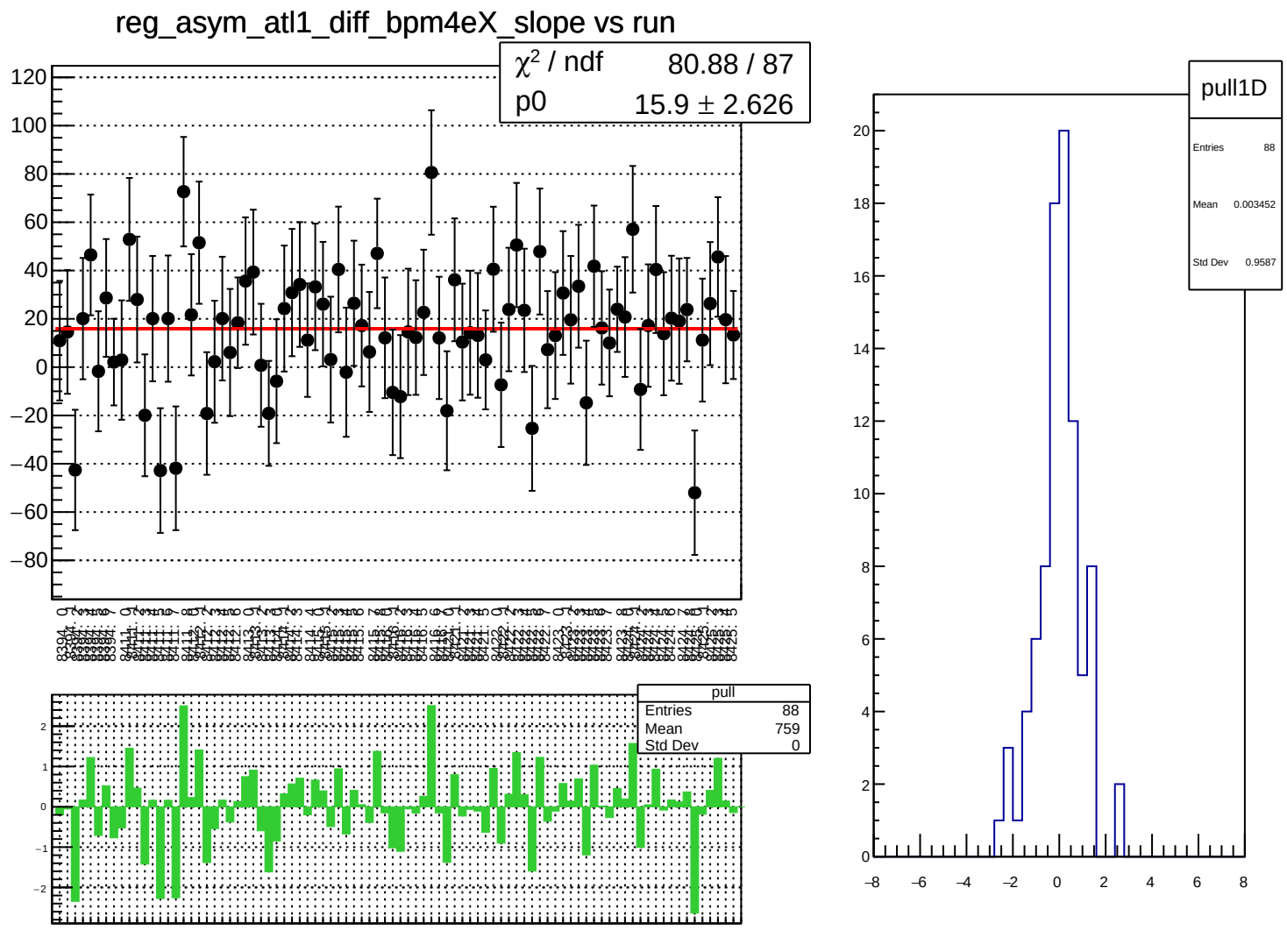

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 1.939 / 87
p0 1.475 ± 0.1668
pull
Entries 88
Mean 213.8
Std Dev 0
pull1D
Entries 88
Mean −0.007102
Std Dev 0.1483

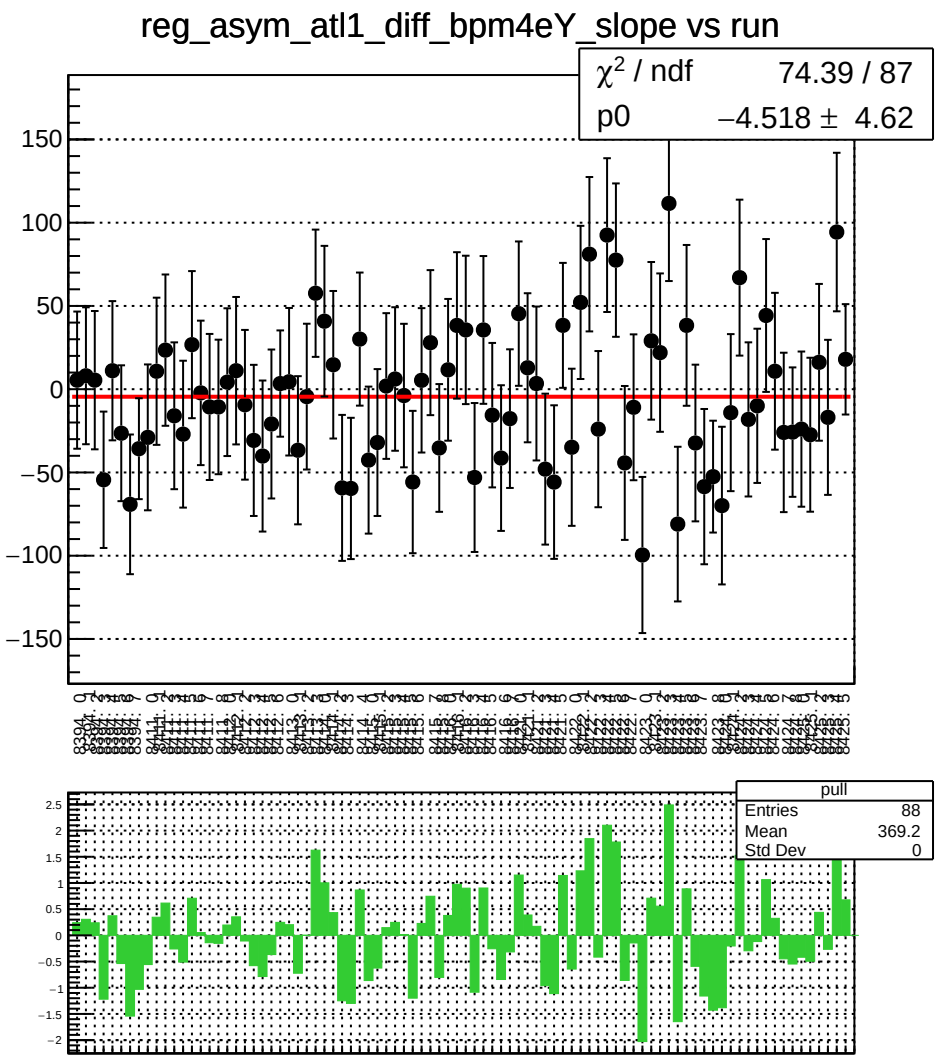

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 81.77 / 87
p0 18.68 ± 2.351
pull
Entries 88
Mean 638.4
Std Dev 0

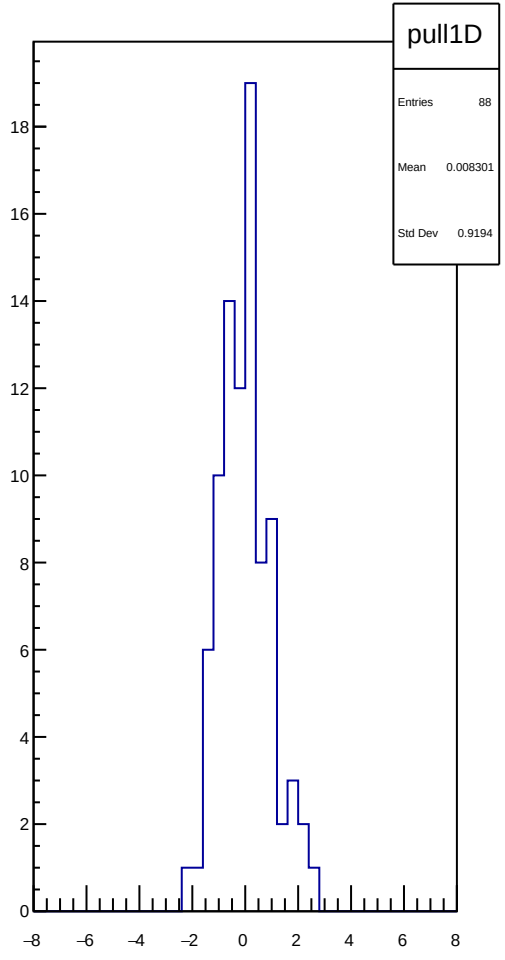

pull1D
Entries 88
Mean −0.003768
Std Dev 0.9639

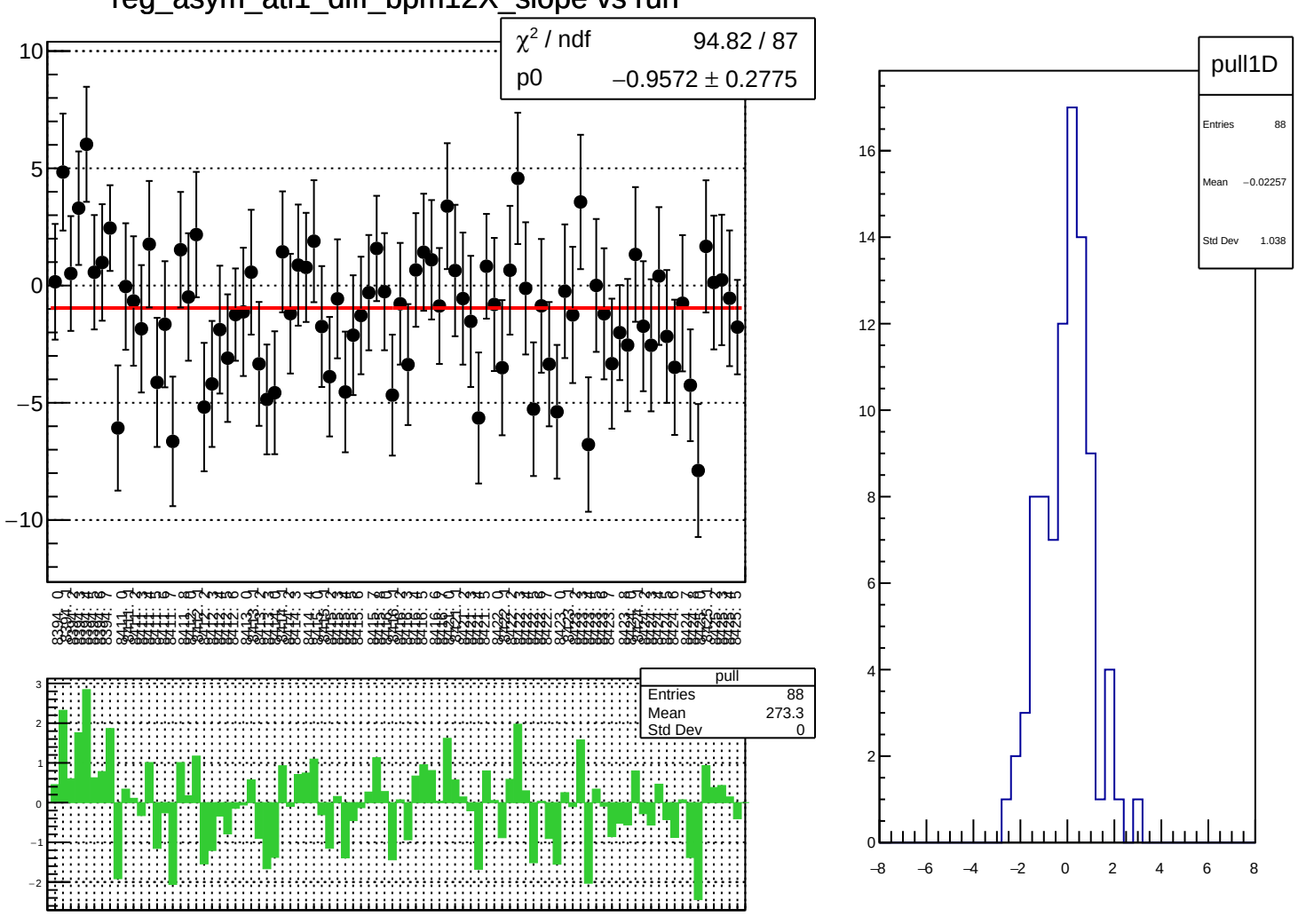

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 75.42 / 87
p0 −4.431 ± 4.402
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 293.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

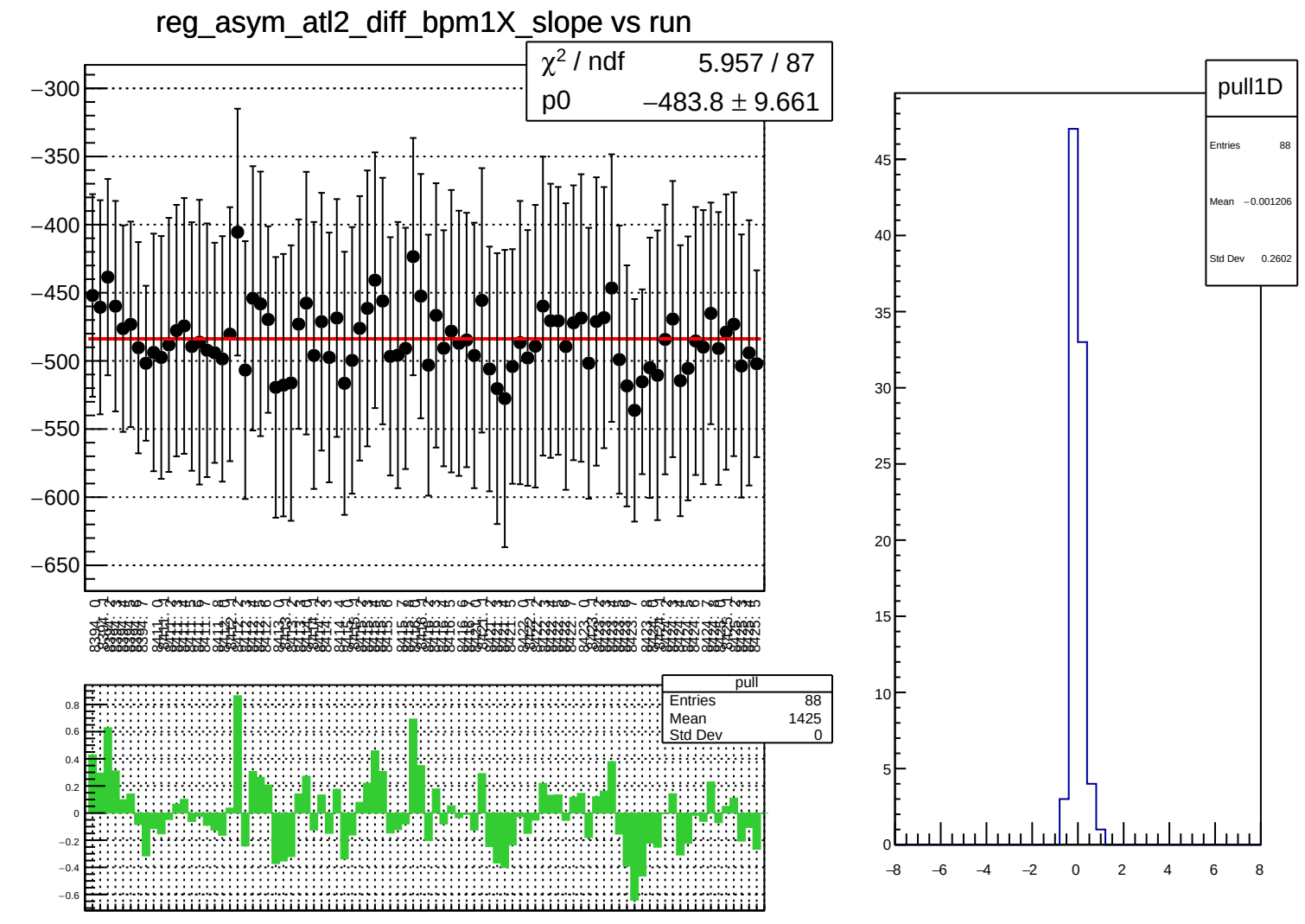

pull1D
Entries 88
Mean −0.008413
Std Dev 0.9257
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

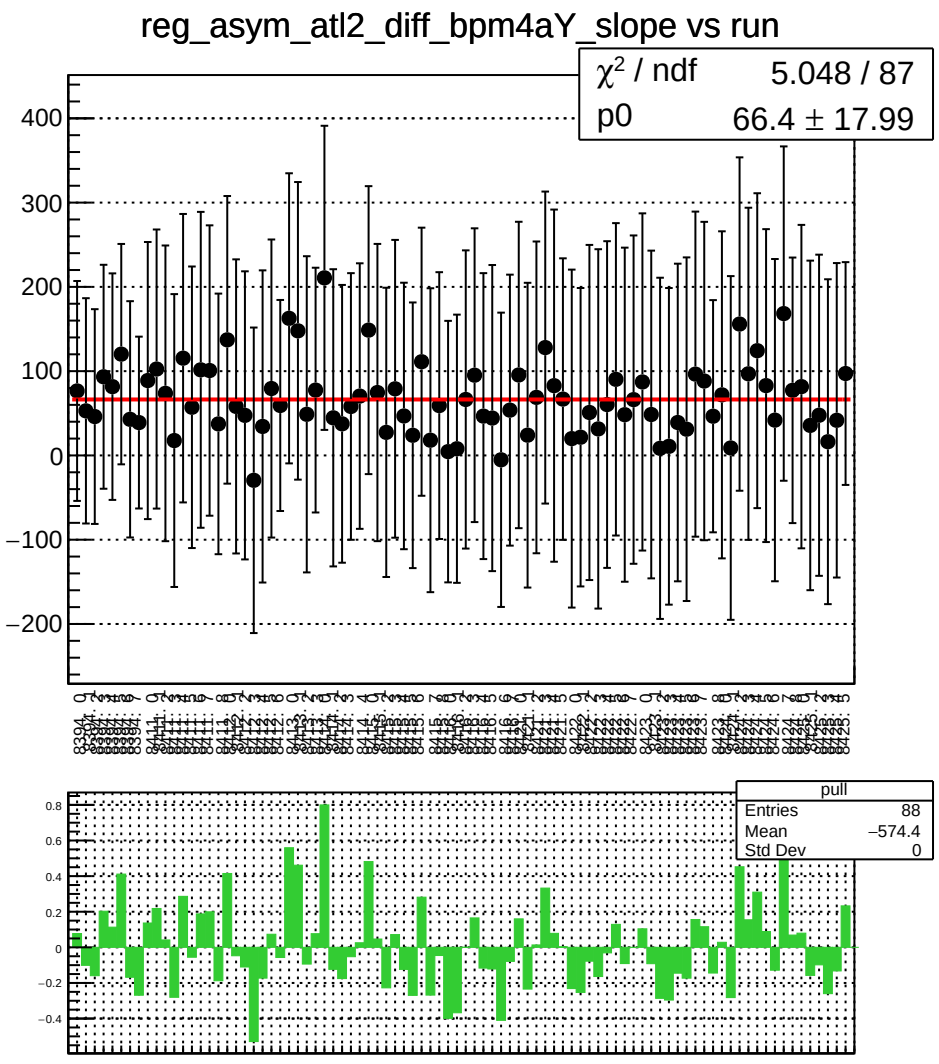

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 80.88 / 87
p0 15.9 ± 2.626
pull
Entries 88
Mean 759
Std Dev 0
pull1D
Entries 88
Mean 0.003452
Std Dev 0.9587

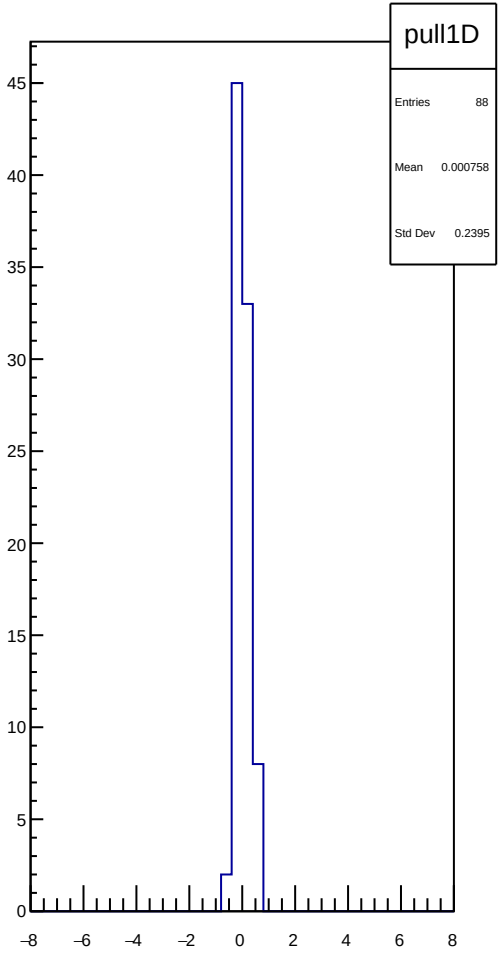

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 74.39 / 87
p0 −4.518 ± 4.62
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 369.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

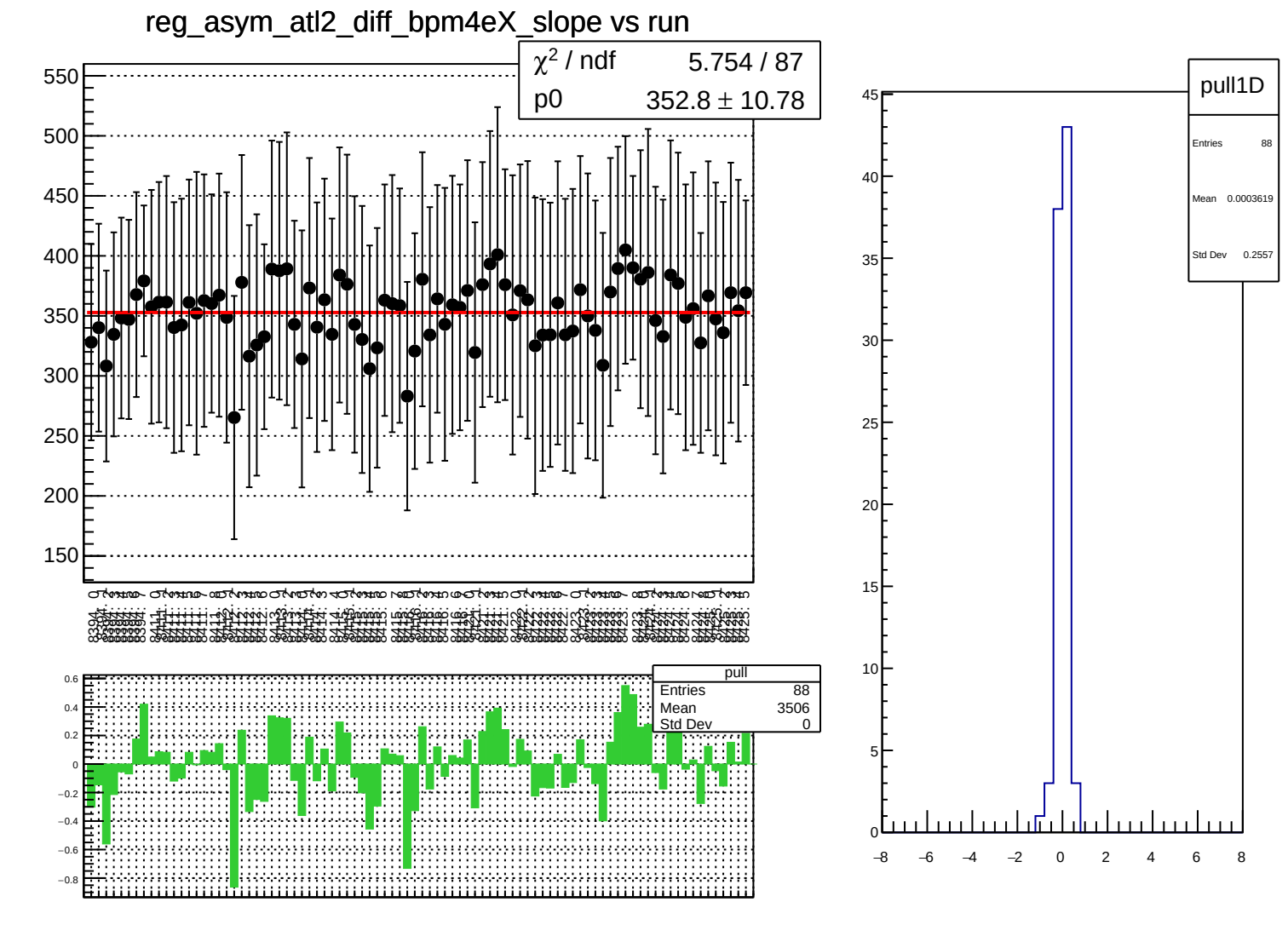

pull1D
Entries 88
Mean 0.008301
Std Dev 0.9194
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

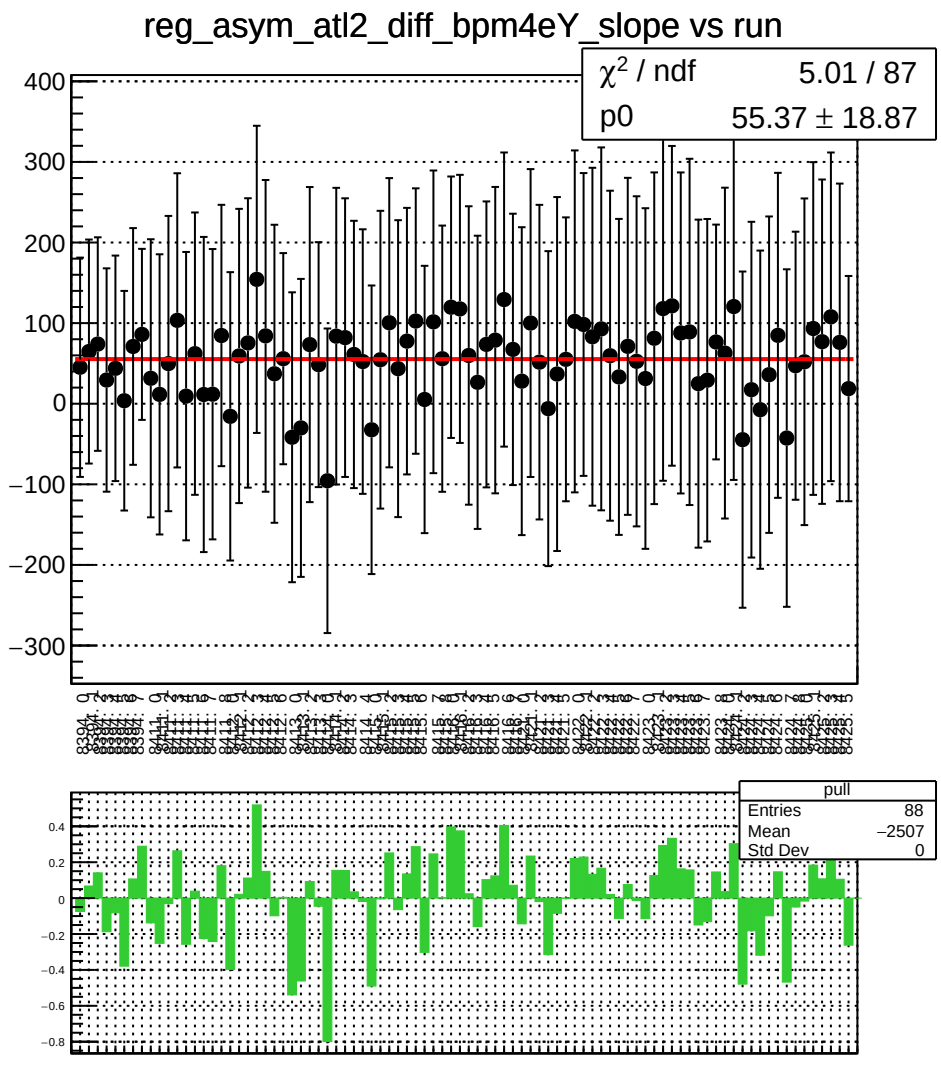

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 94.82 / 87
p0 −0.9572 ± 0.2775
pull
Entries 88
Mean 273.3
Std Dev 0
pull1D
Entries 88
Mean −0.02257
Std Dev 1.038

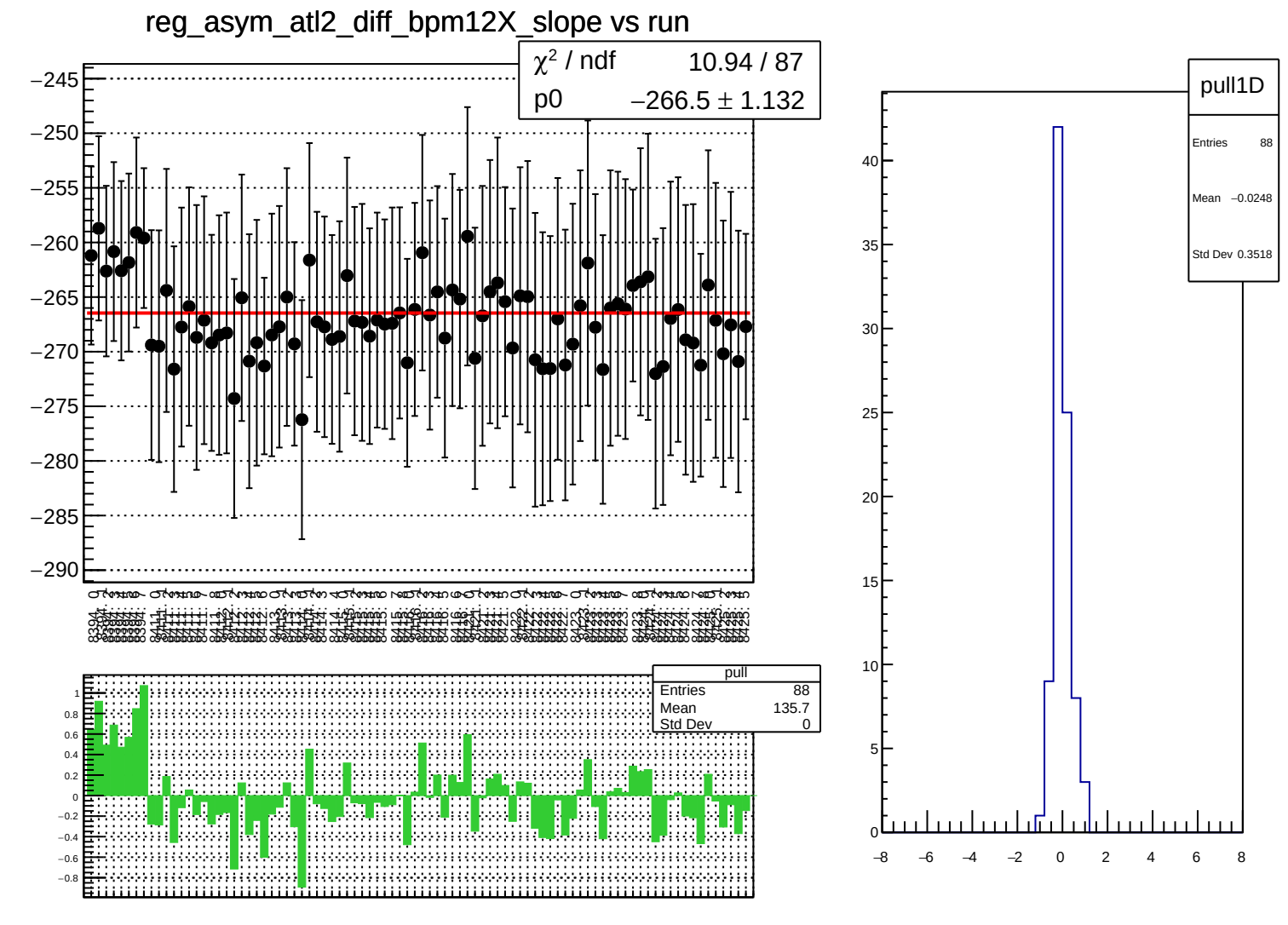

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 5.957 / 87
p0 −483.8 ± 9.661
−300
−350
−400
−450
−500
−550
−600
−650
pull
Entries 88
Mean 1425
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean −0.001206
Std Dev 0.2602
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

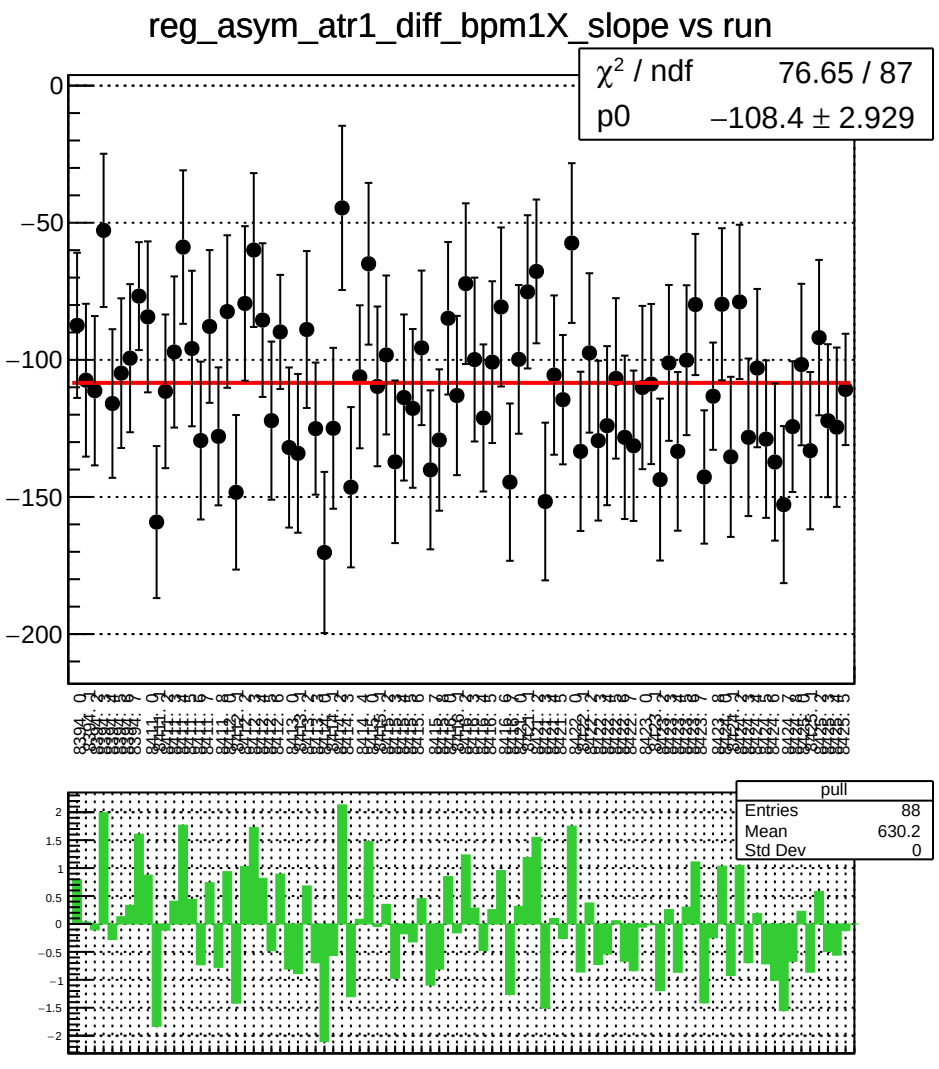

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 5.048 / 87
p0 66.4 ± 17.99
pull
Entries 88
Mean −574.4
Std Dev 0

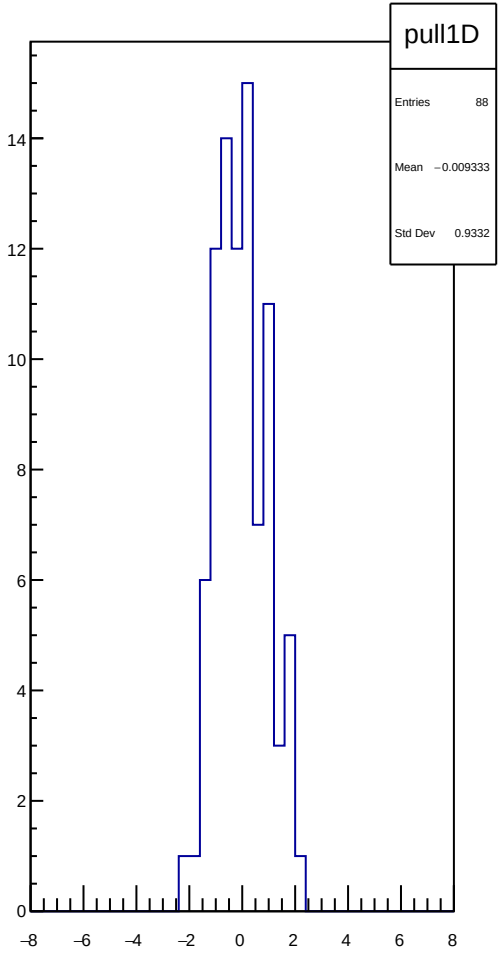

pull1D
Entries 88
Mean 0.000758
Std Dev 0.2395

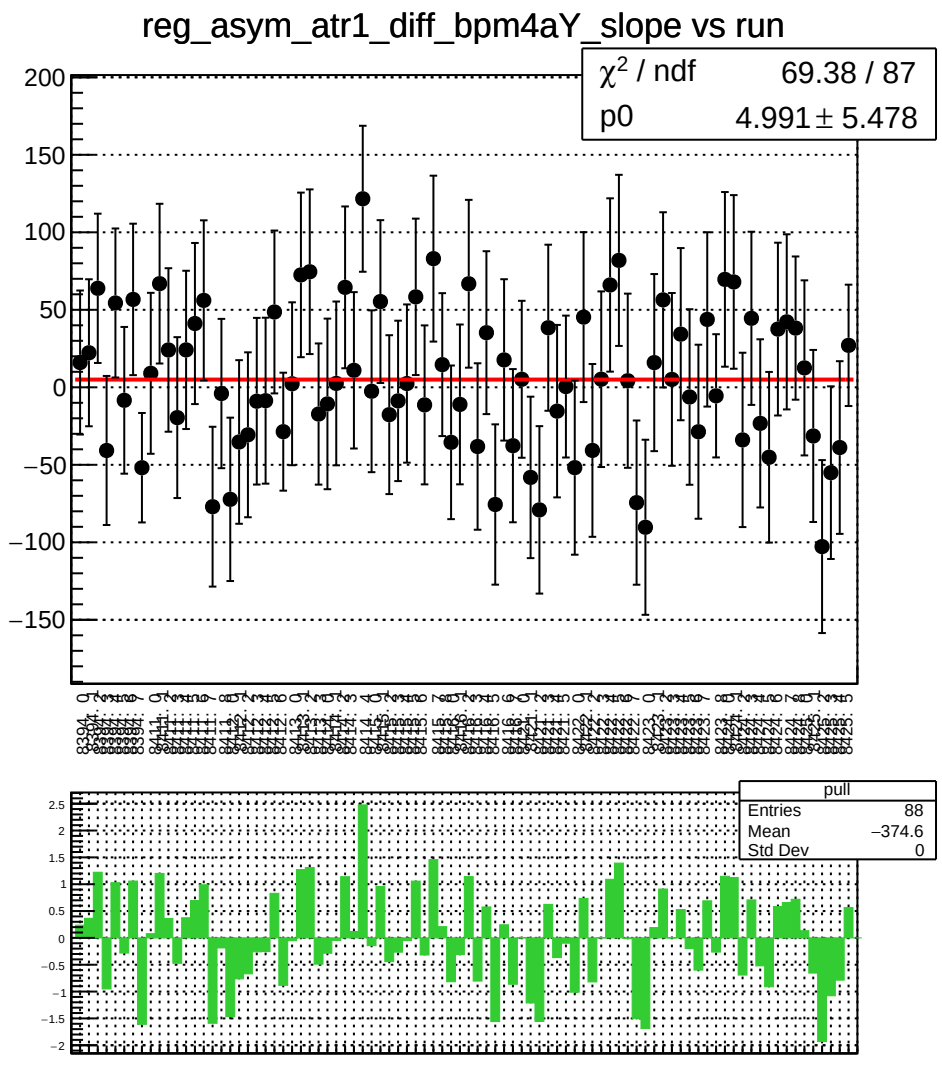

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 5.754 / 87
p0 352.8 ± 10.78
pull
Entries 88
Mean 3506
Std Dev 0
pull1D
Entries 88
Mean 0.0003619
Std Dev 0.2557

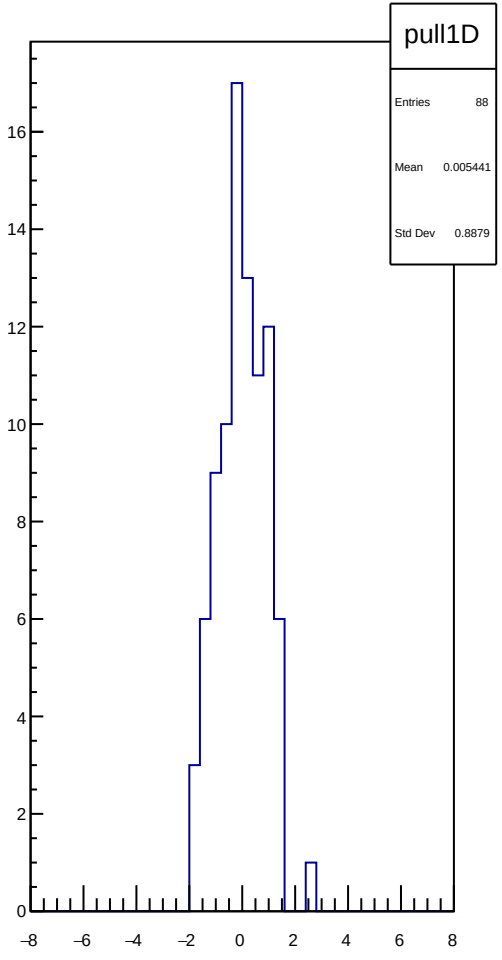

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 5.01 / 87
p0 55.37 ± 18.87
pull
Entries 88
Mean −2507
Std Dev 0
pull1D
Entries 88
Mean −0.0002333
Std Dev 0.2386

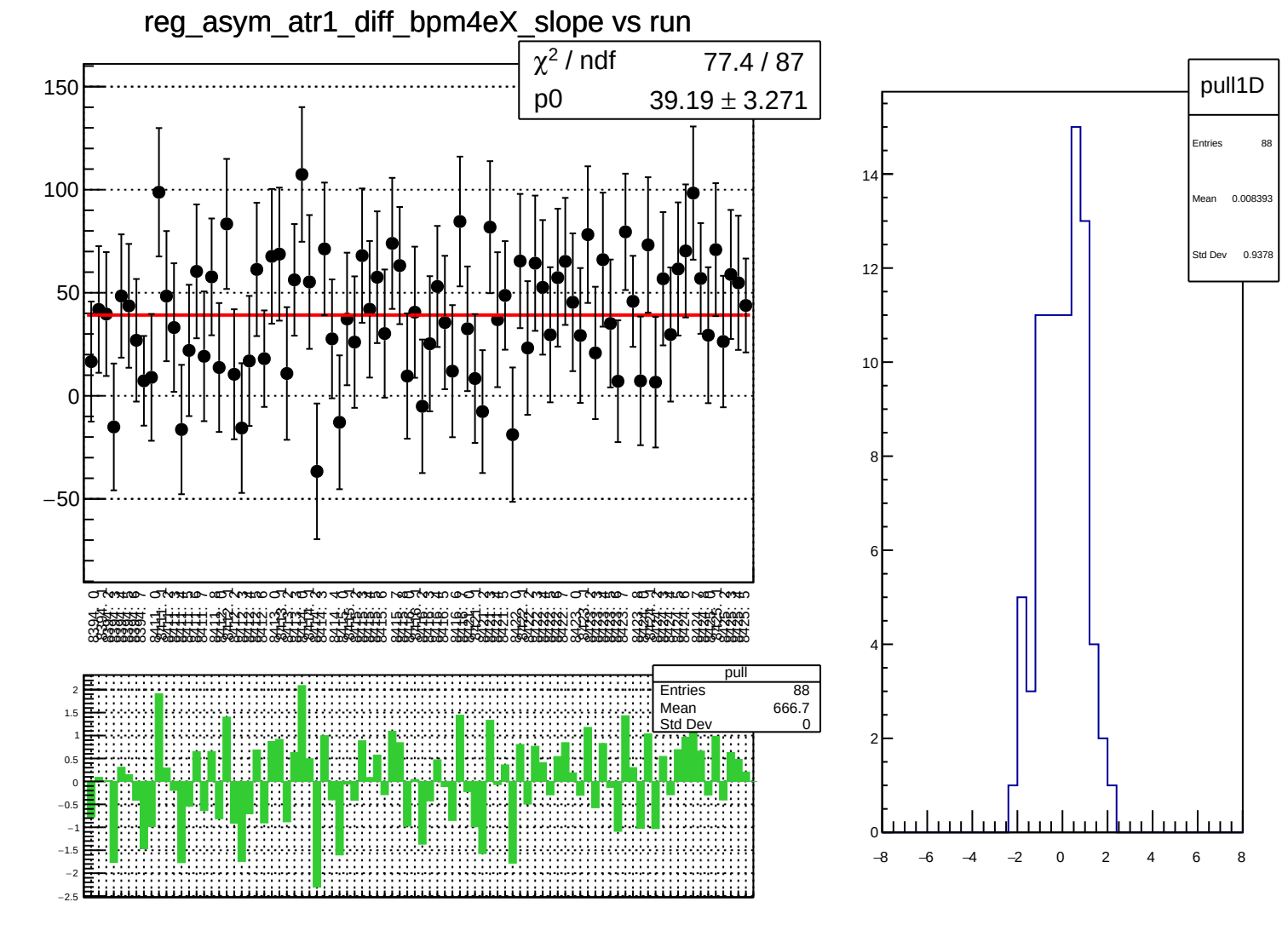

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 10.94 / 87
p0 −266.5 ± 1.132
pull
Entries 88
Mean 135.7
Std Dev 0
pull1D
Entries 88
Mean −0.0248
Std Dev 0.3518

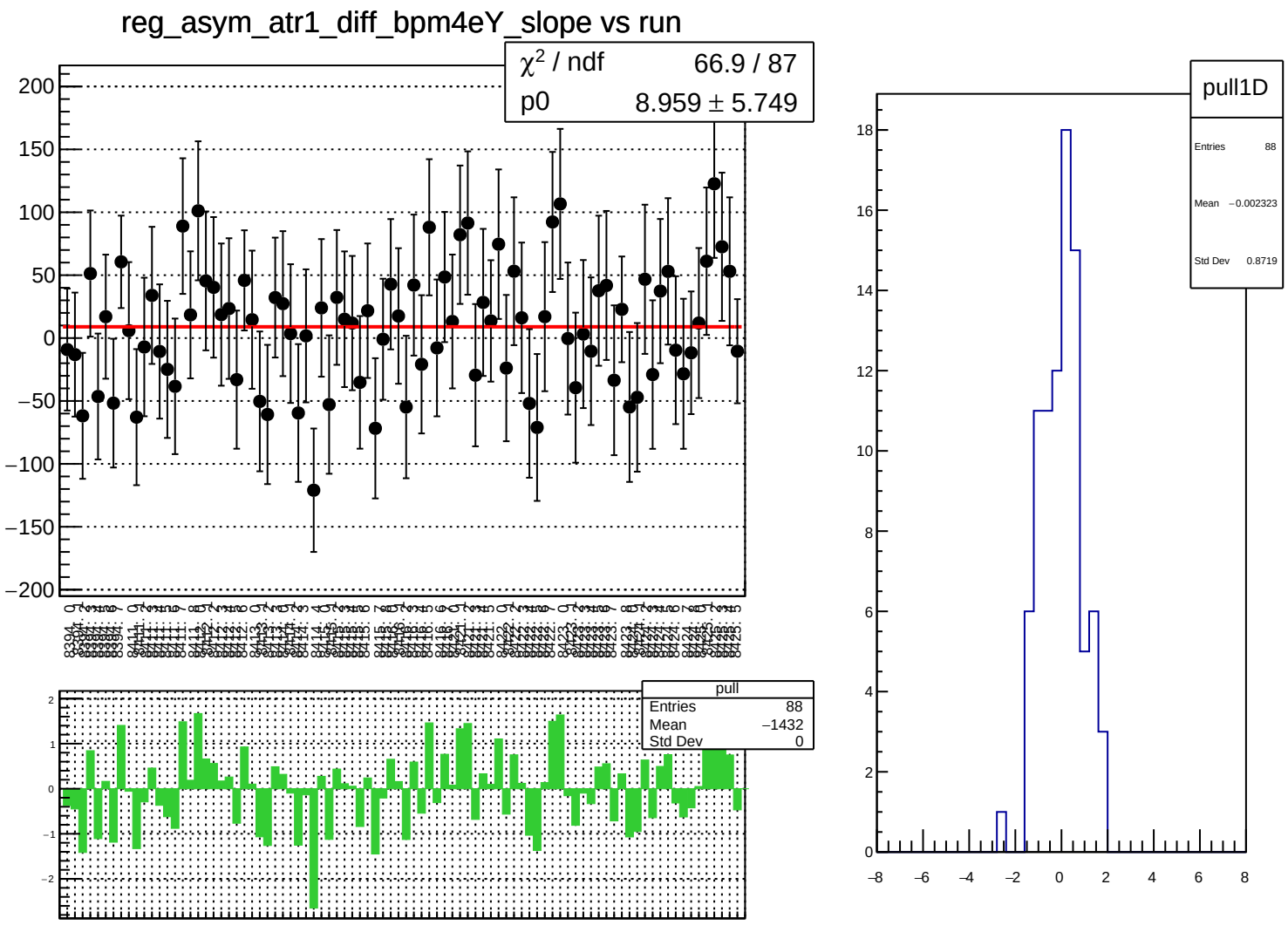

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 76.65 / 87
p0 −108.4 ± 2.929
pull
Entries 88
Mean 630.2
Std Dev 0

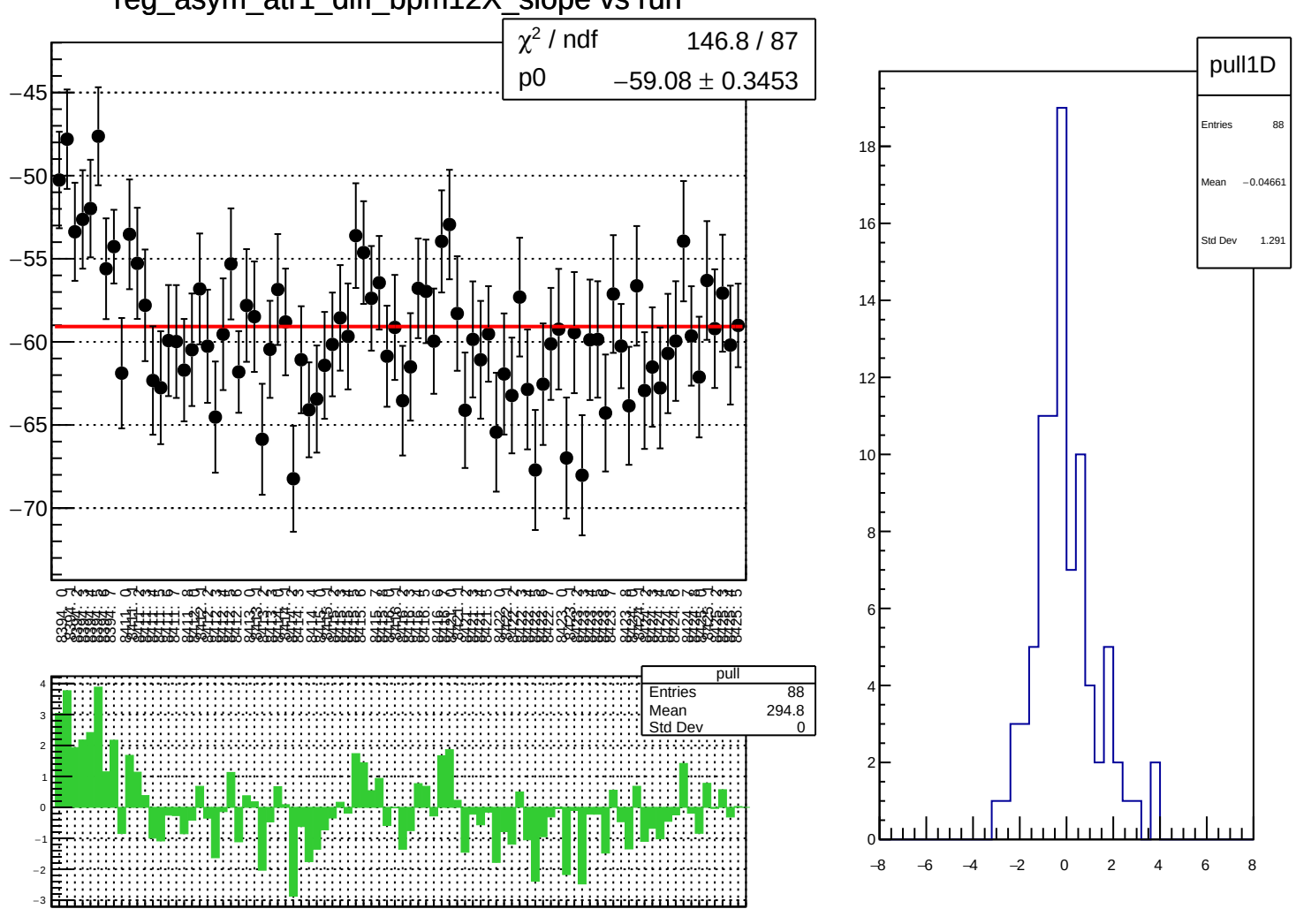

pull1D
Entries 88
Mean −0.009333
Std Dev 0.9332

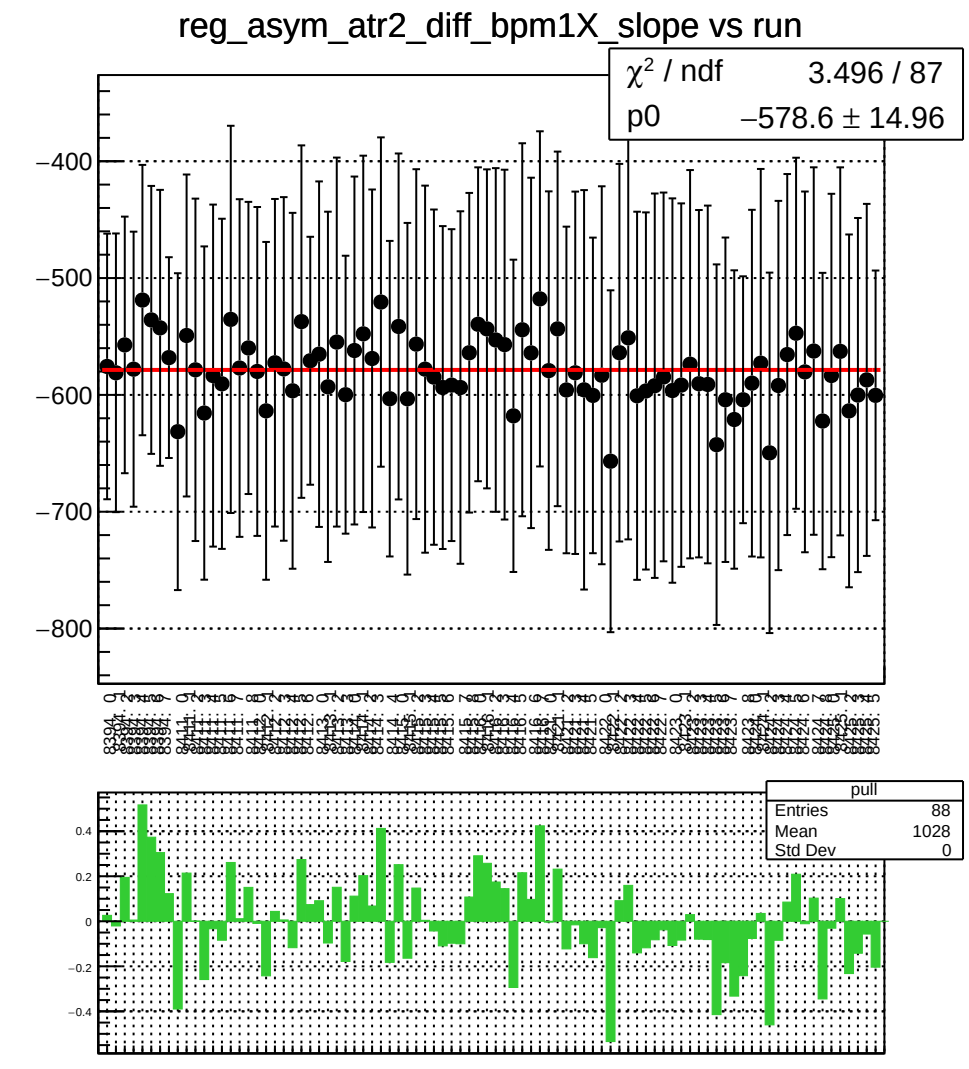

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 69.38 / 87
p0 4.991 ± 5.478
pull
Entries 88
Mean −374.6
Std Dev 0

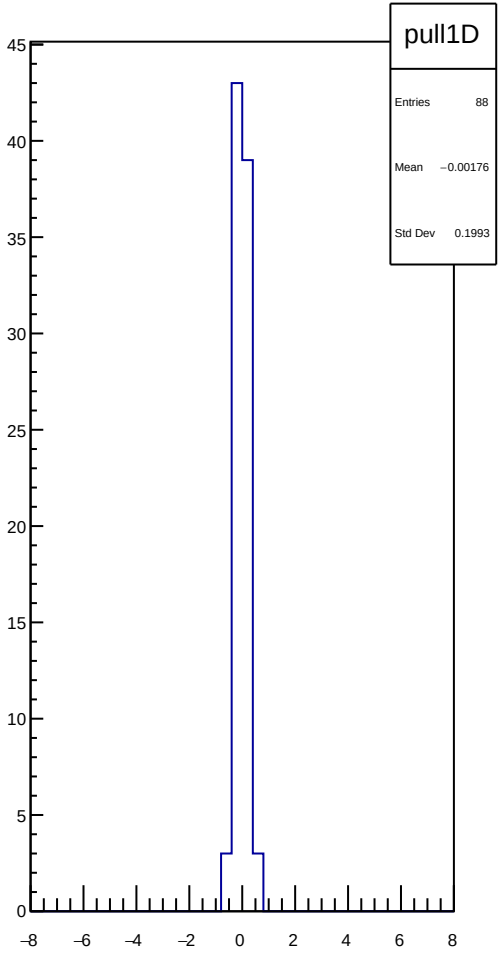

pull1D
Entries 88
Mean 0.005441
Std Dev 0.8879

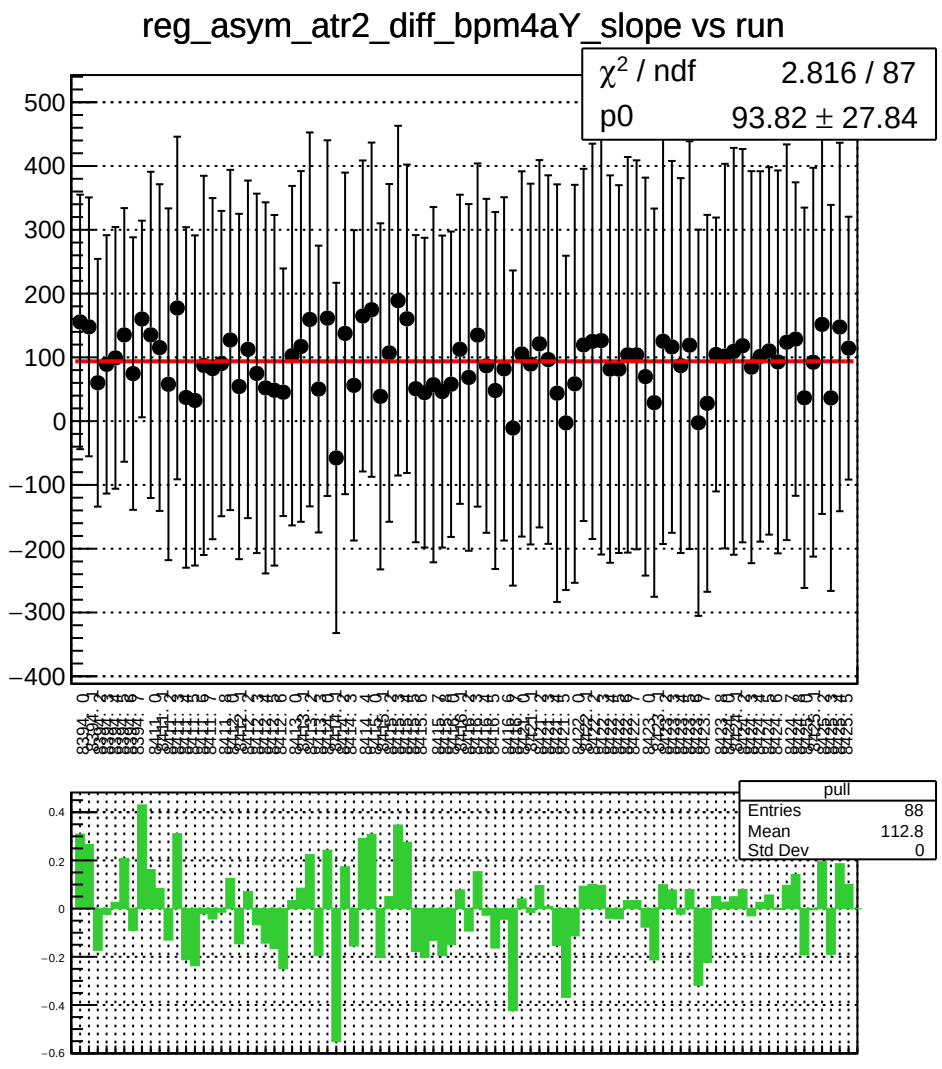

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 77.4 / 87
p0 39.19 ± 3.271
150
100
50
0
−50
pull
Entries 88
Mean 666.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 88
Mean 0.008393
Std Dev 0.9378
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

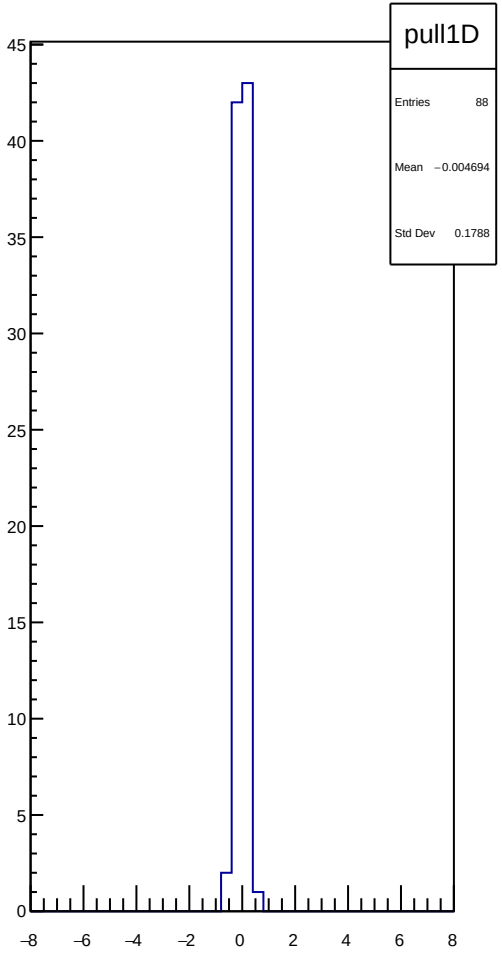

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 66.9 / 87
p0 8.959 ± 5.749
pull
Entries 88
Mean −1432
Std Dev 0
pull1D
Entries 88
Mean −0.002323
Std Dev 0.8719

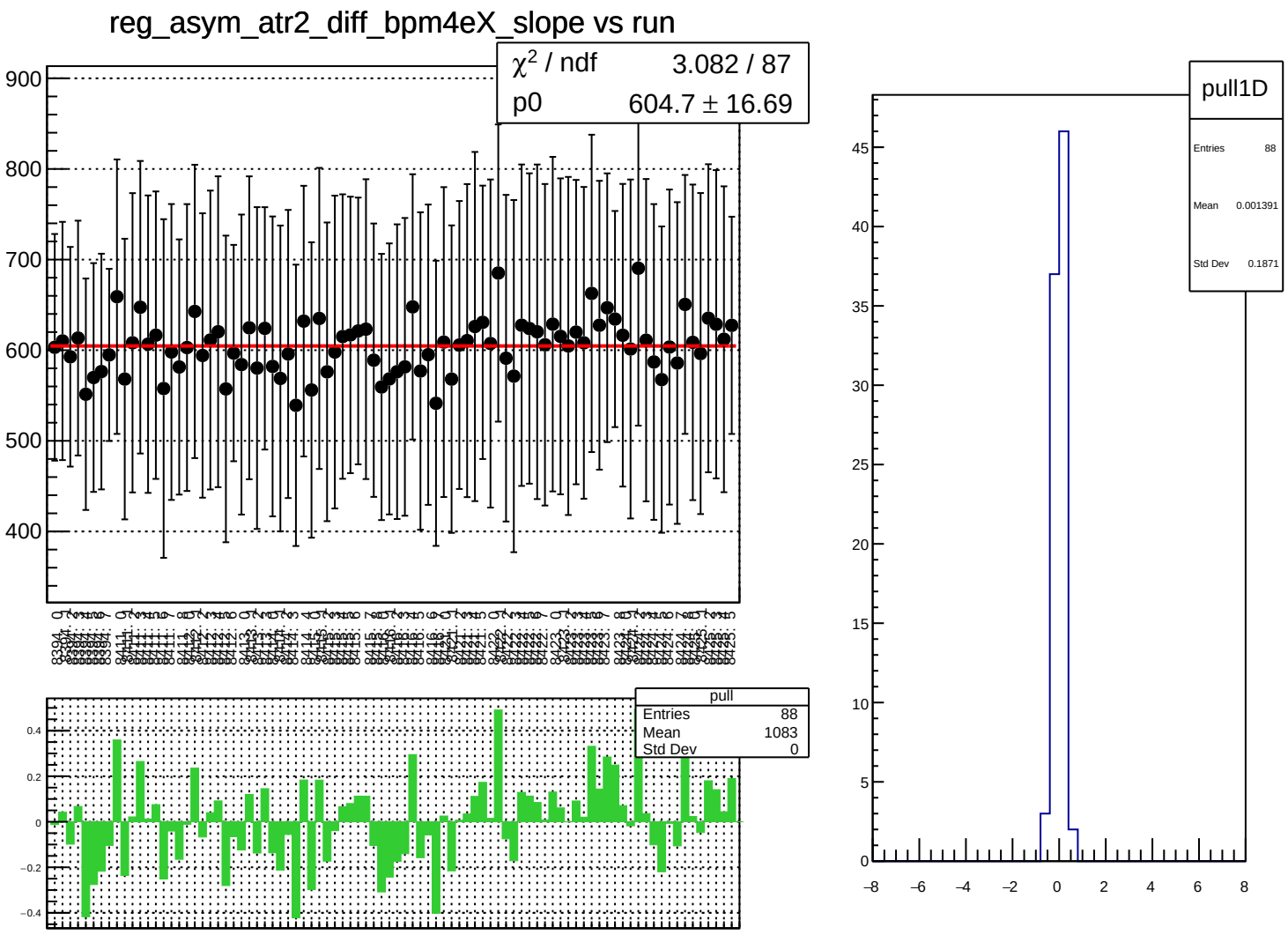

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 146.8 / 87
p0 −59.08 ± 0.3453
pull
Entries 88
Mean 294.8
Std Dev 0
pull1D
Entries 88
Mean −0.04661
Std Dev 1.291

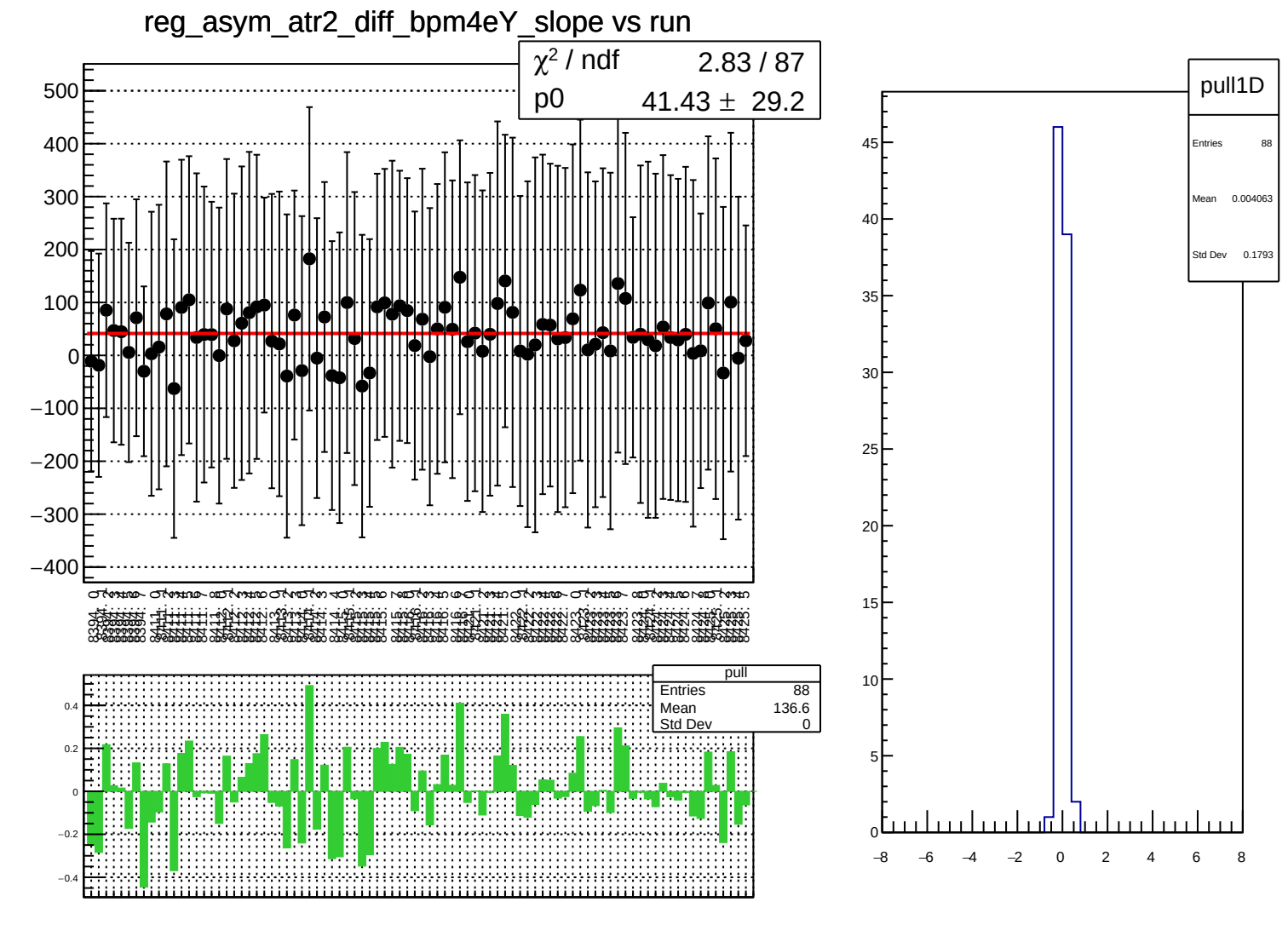

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 3.496 / 87
p0 −578.6 ± 14.96
−400
−500
−600
−700
−800
pull
Entries 88
Mean 1028
Std Dev 0
0.4
0.2
0
−0.2
−0.4

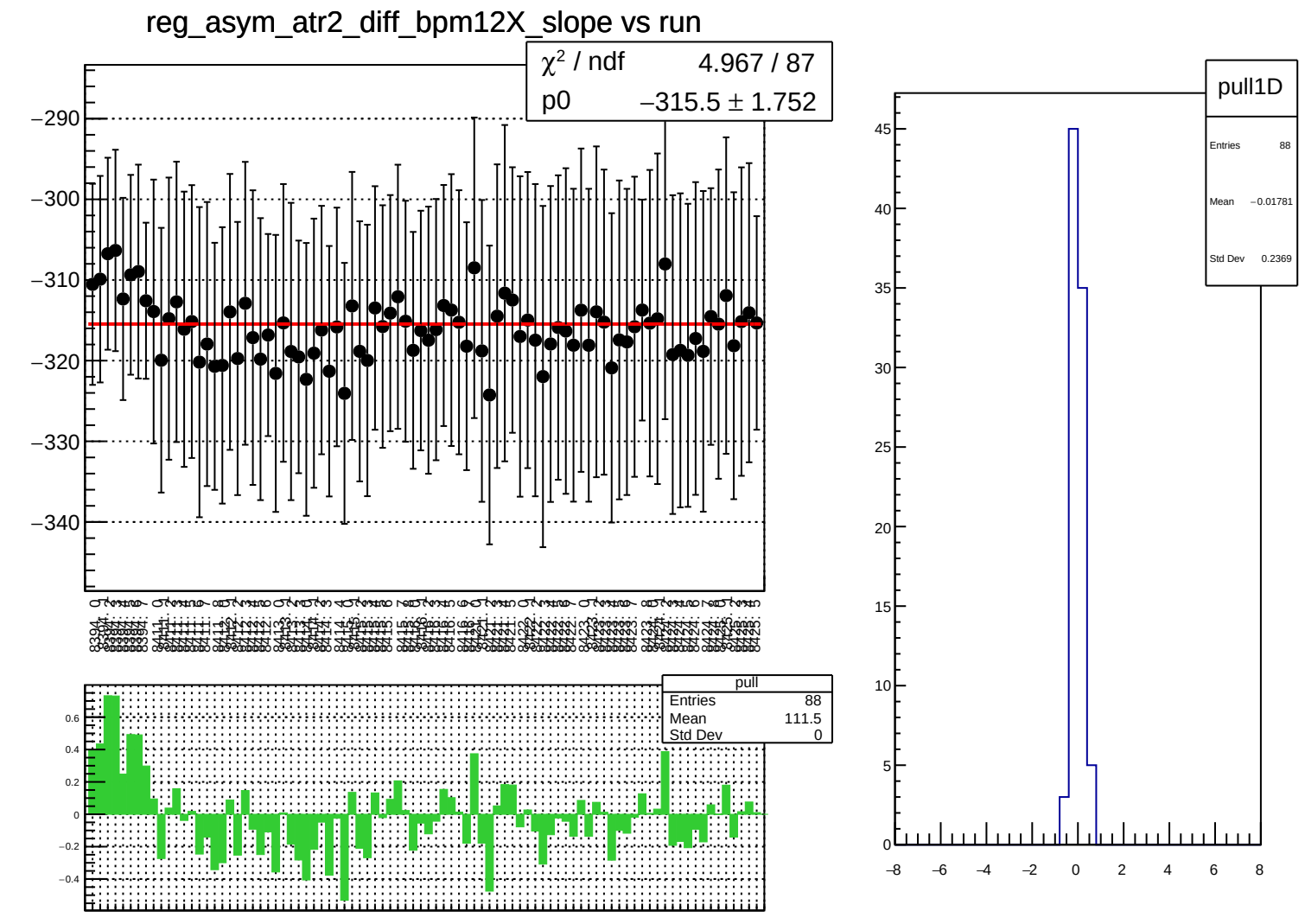

pull1D
Entries 88
Mean −0.00176
Std Dev 0.1993
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

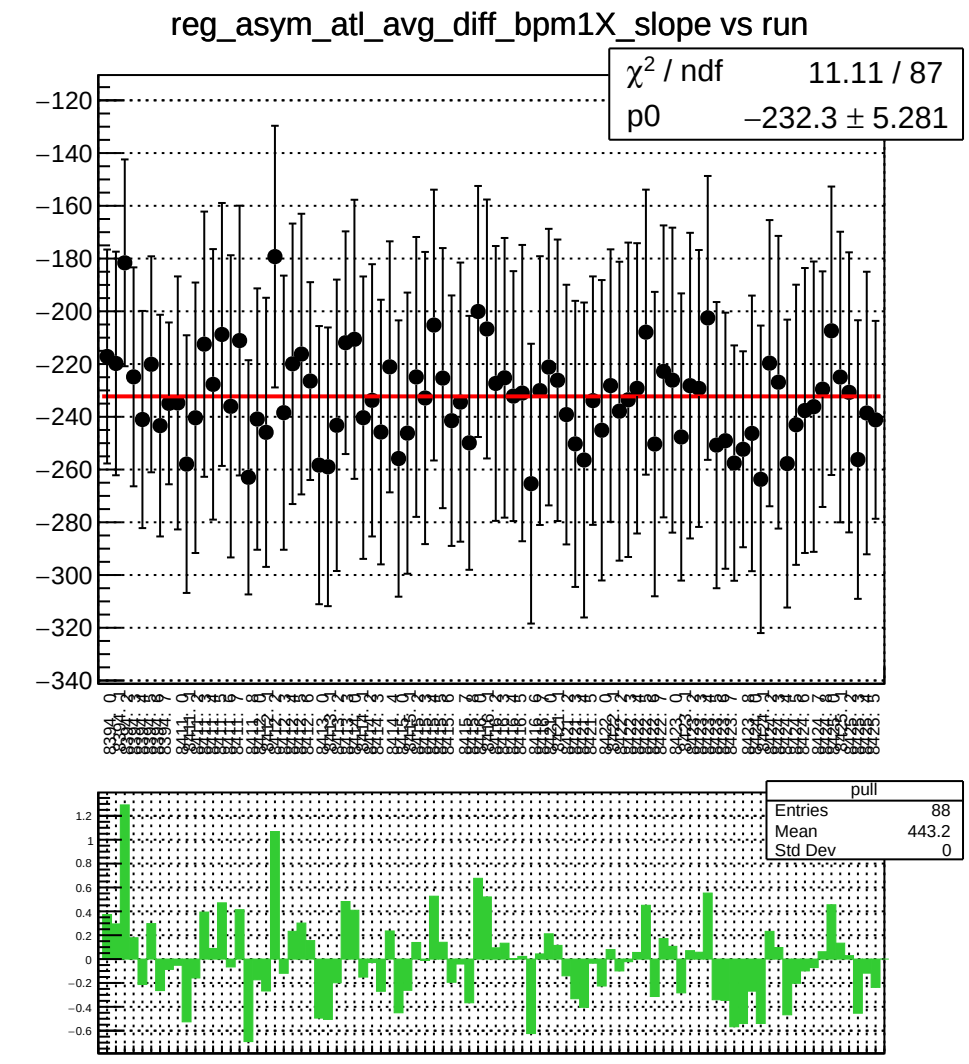

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 2.816 / 87
p0 93.82 ± 27.84
pull
Entries 88
Mean 112.8
Std Dev 0

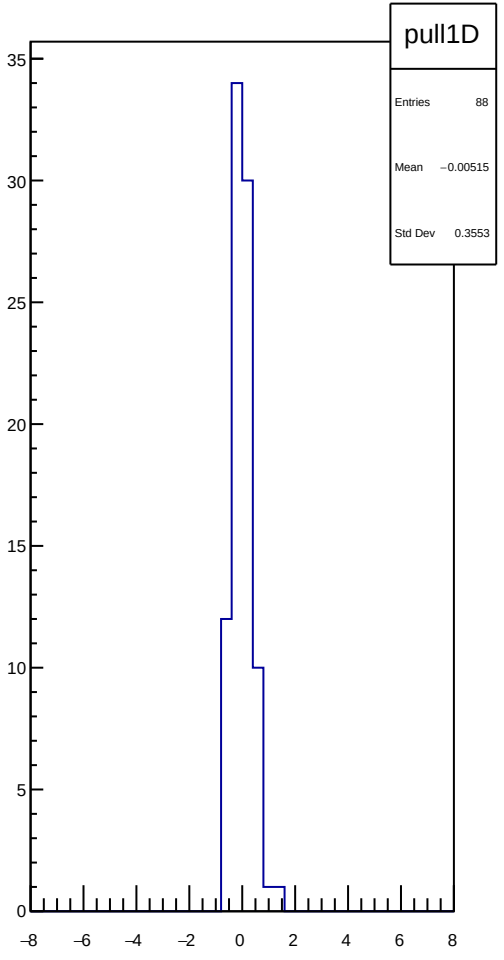

pull1D
Entries 88
Mean −0.004694
Std Dev 0.1788

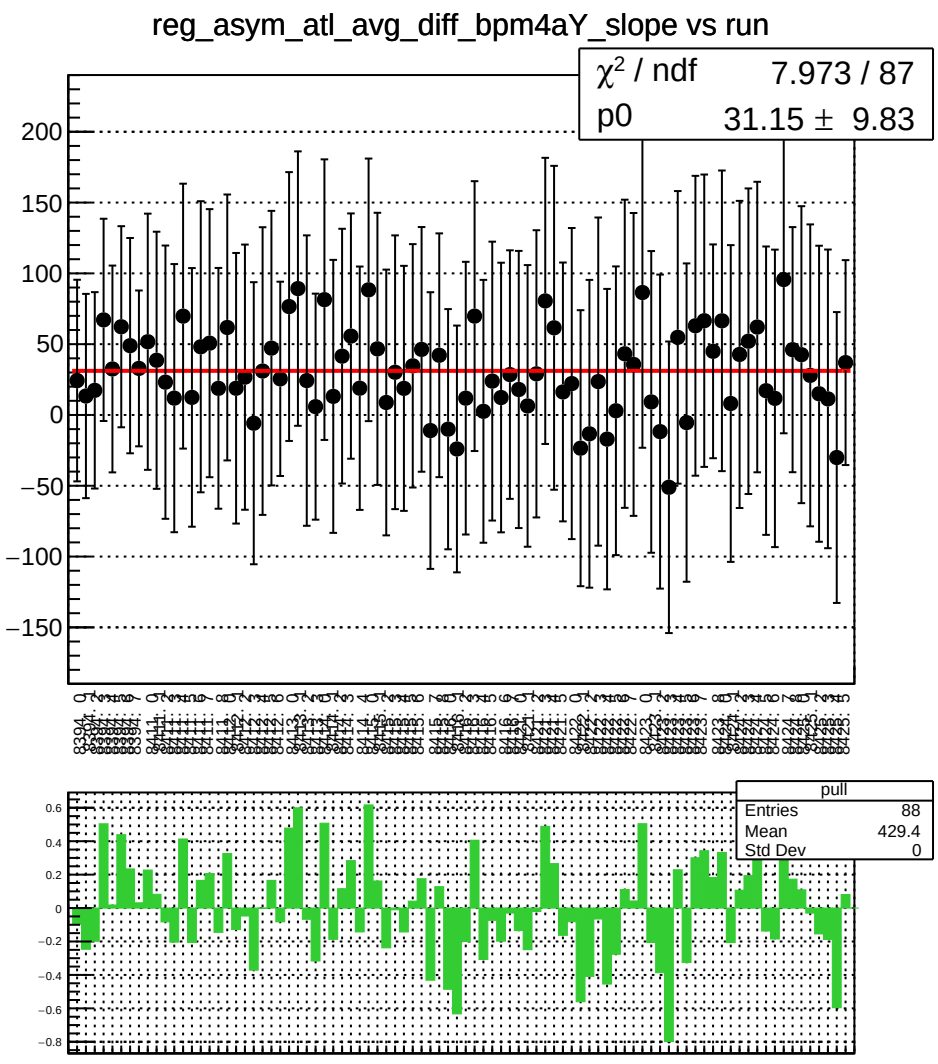

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 3.082 / 87
p0 604.7 ± 16.69
900
800
700
600
500
400
pull
Entries 88
Mean 1083
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 88
Mean 0.001391
Std Dev 0.1871
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

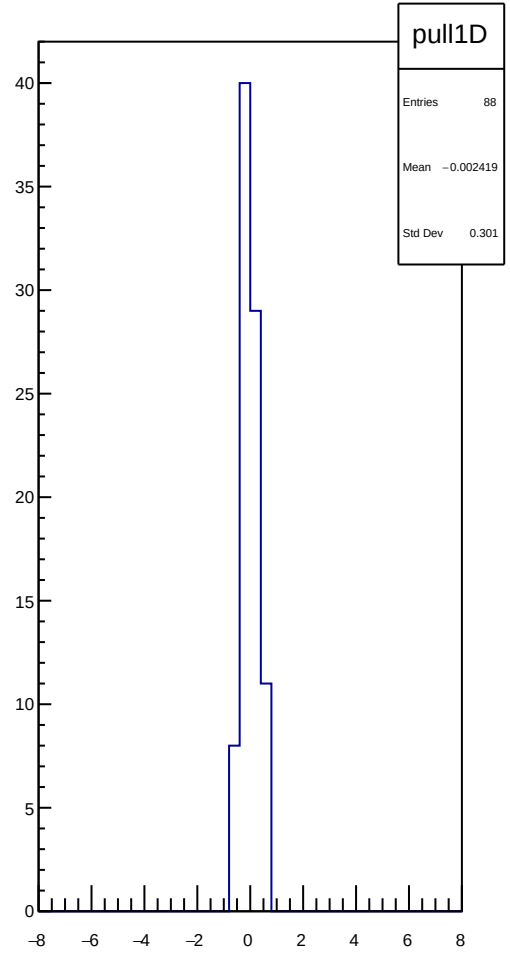

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 2.83 / 87
p0 41.43 ± 29.2
pull
Entries 88
Mean 136.6
Std Dev 0
pull1D
Entries 88
Mean 0.004063
Std Dev 0.1793

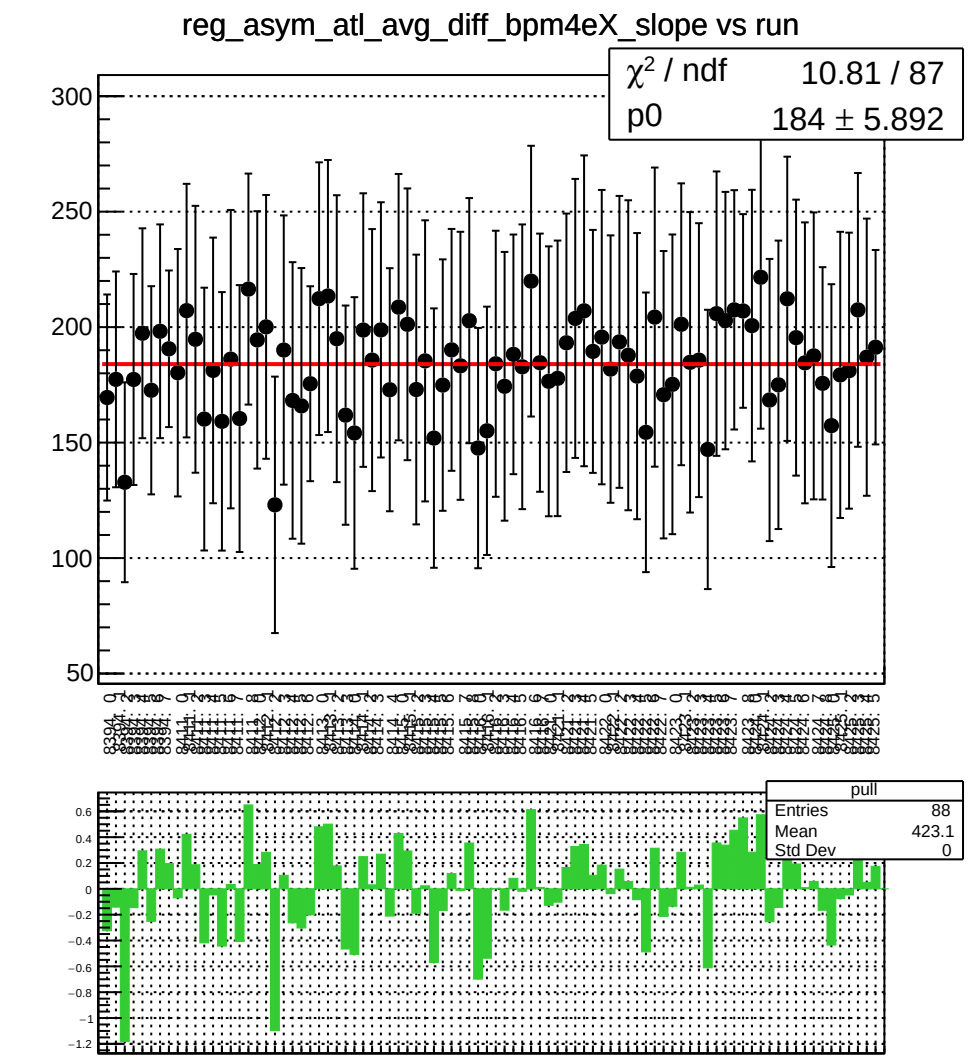

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 4.967 / 87
p0 −315.5 ± 1.752
−290
−300
−310
−320
−330
−340
pull
Entries 88
Mean 111.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 88
Mean −0.01781
Std Dev 0.2369
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

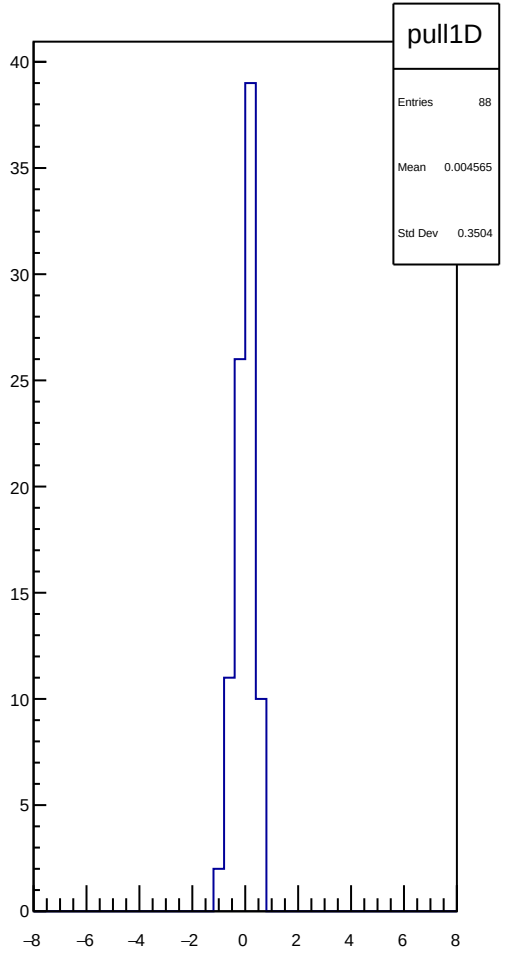

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 11.11 / 87
p0 −232.3 ± 5.281
pull
Entries 88
Mean 443.2
Std Dev 0

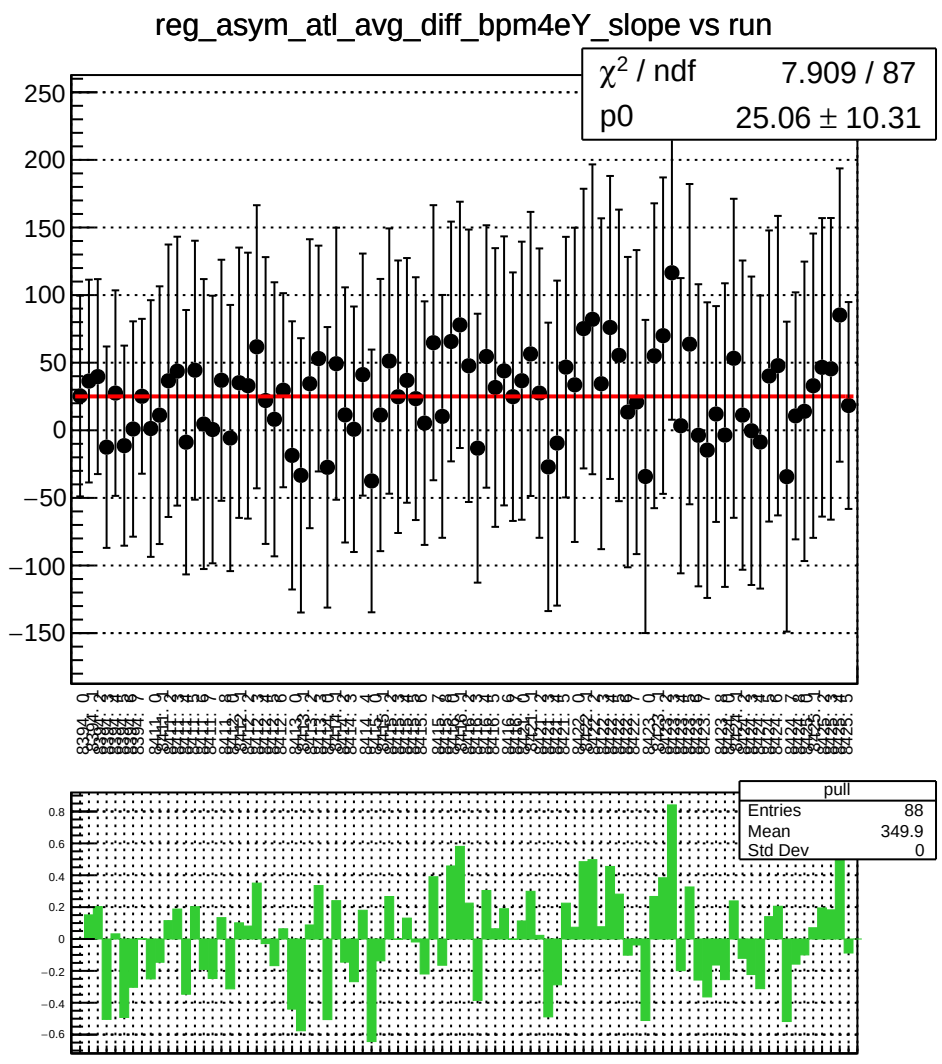

pull1D
Entries 88
Mean −0.00515
Std Dev 0.3553

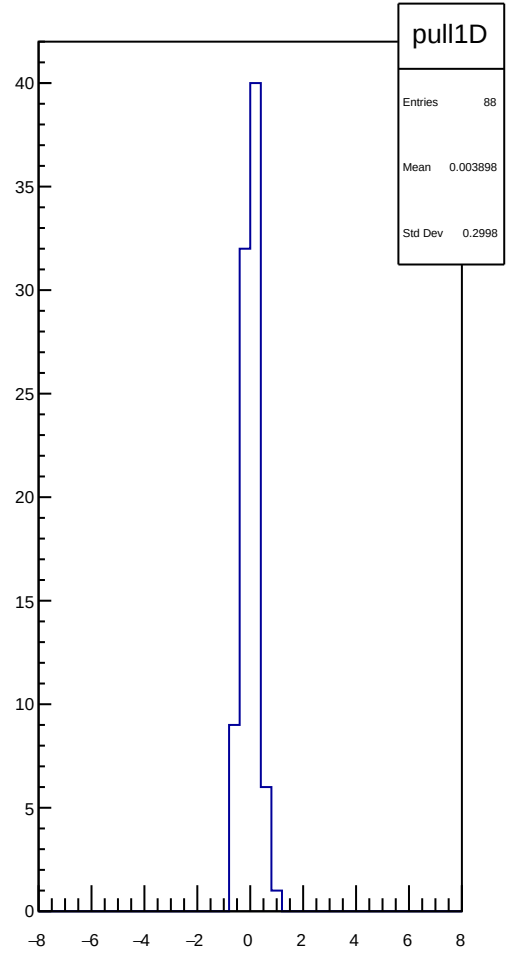

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.973 / 87
p0 31.15 ± 9.83
pull
Entries 88
Mean 429.4
Std Dev 0

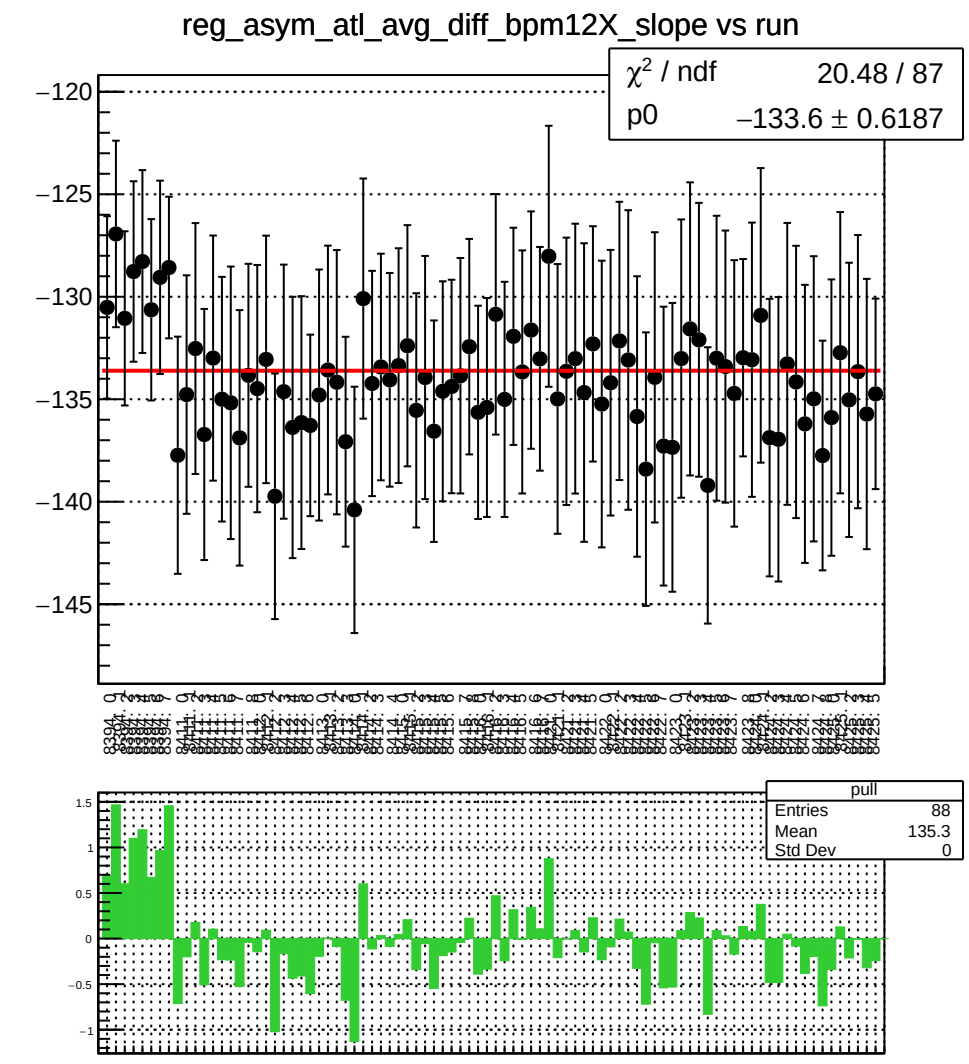

pull1D
Entries 88
Mean −0.002419
Std Dev 0.301

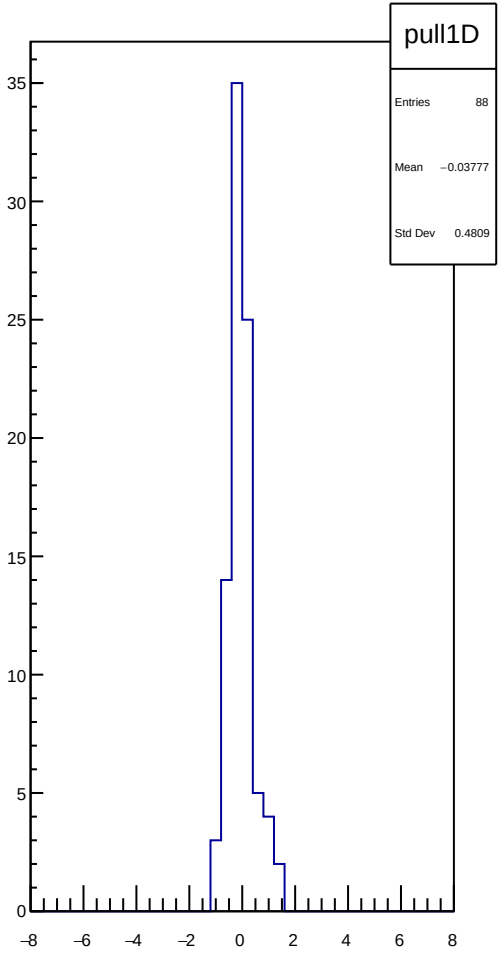

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.81 / 87
p0 184 ± 5.892
pull
Entries 88
Mean 423.1
Std Dev 0

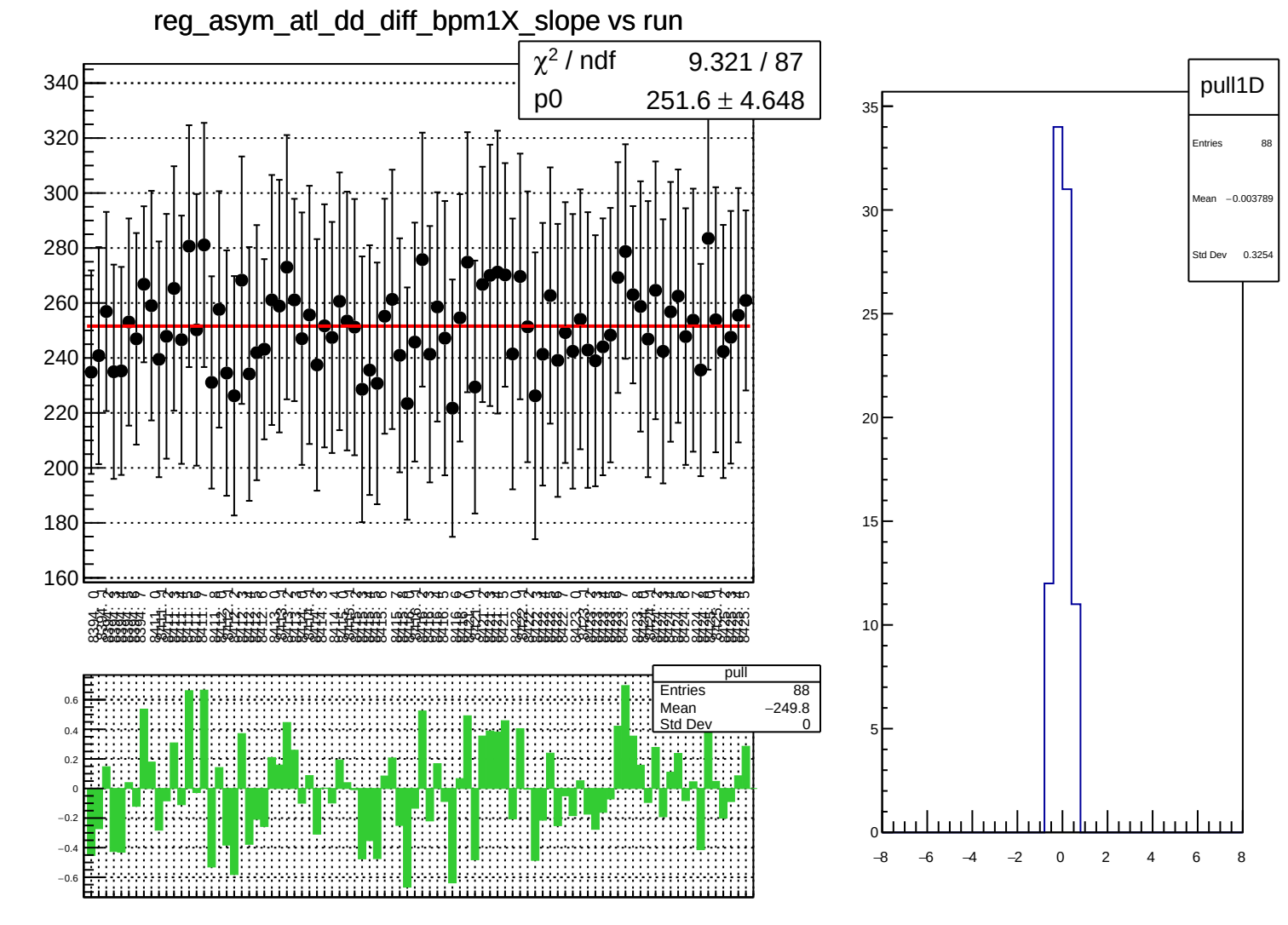

pull1D
Entries 88
Mean 0.004565
Std Dev 0.3504

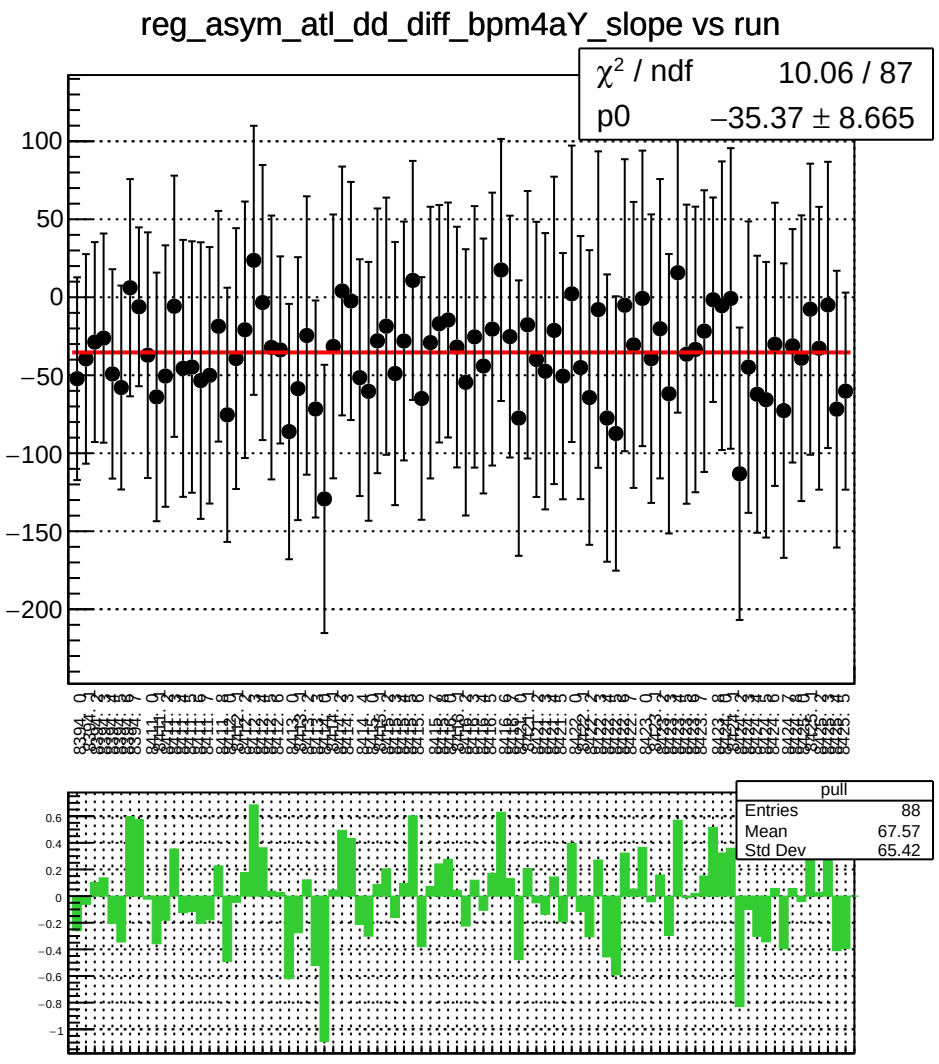

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.909 / 87
p0 25.06 ± 10.31
pull
Entries 88
Mean 349.9
Std Dev 0

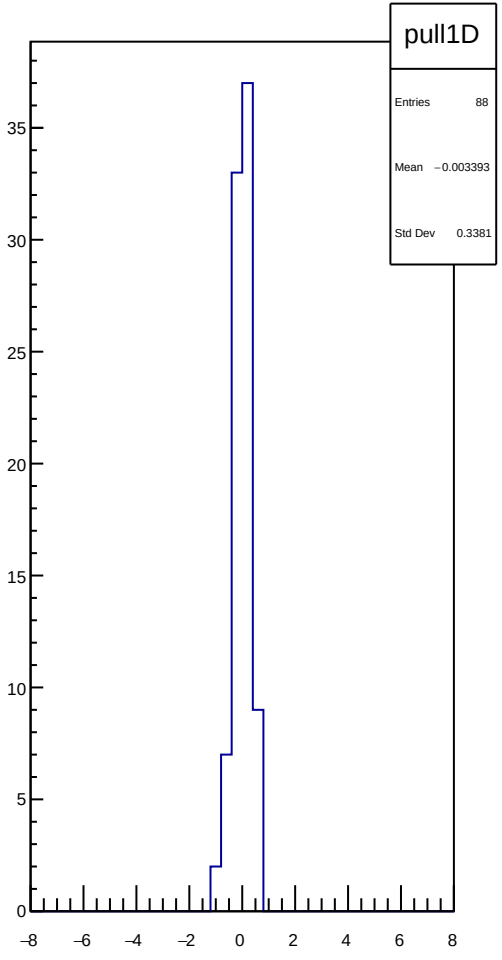

pull1D
Entries 88
Mean 0.003898
Std Dev 0.2998

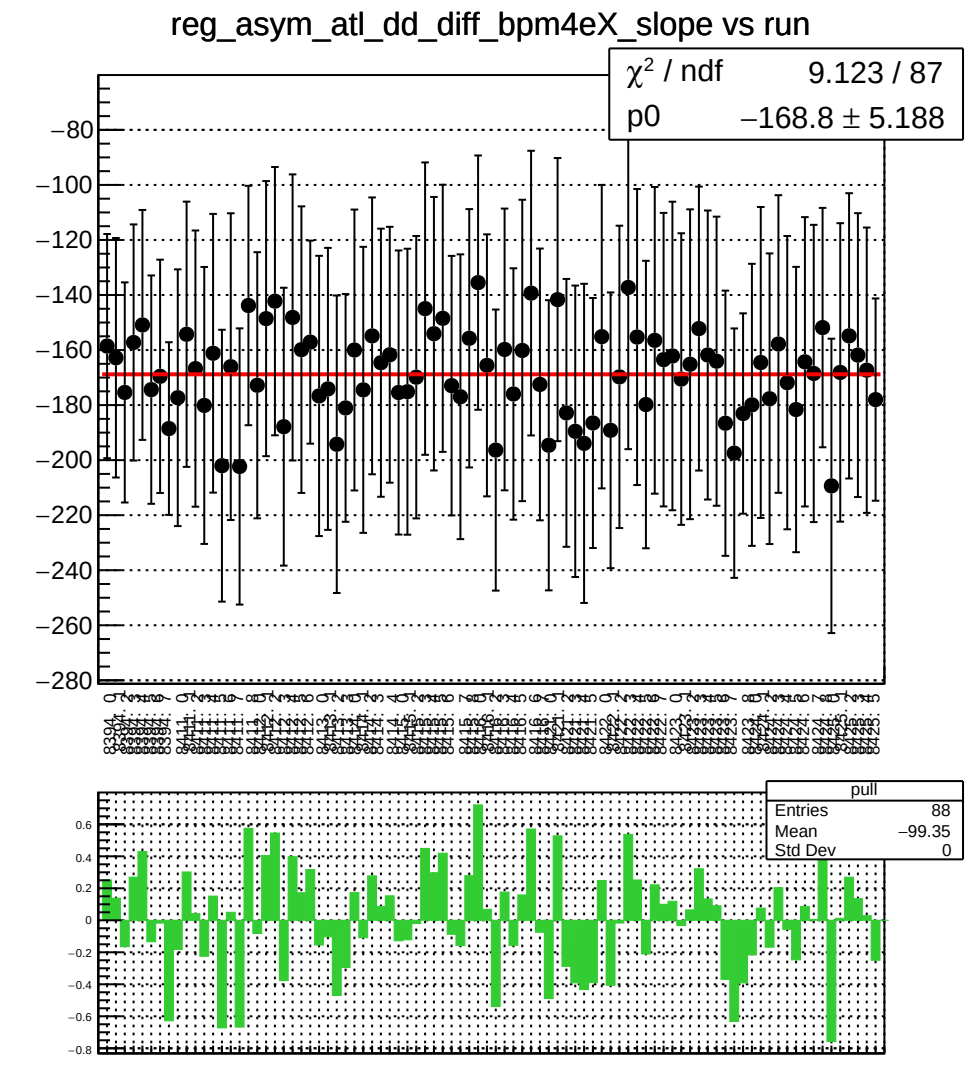

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 20.48 / 87
p0 −133.6 ± 0.6187
pull
Entries 88
Mean 135.3
Std Dev 0

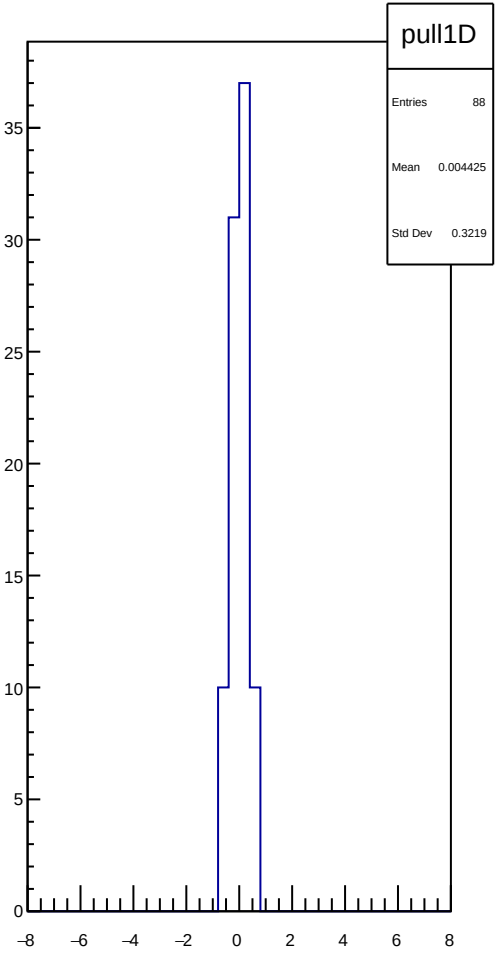

pull1D
Entries 88
Mean −0.03777
Std Dev 0.4809

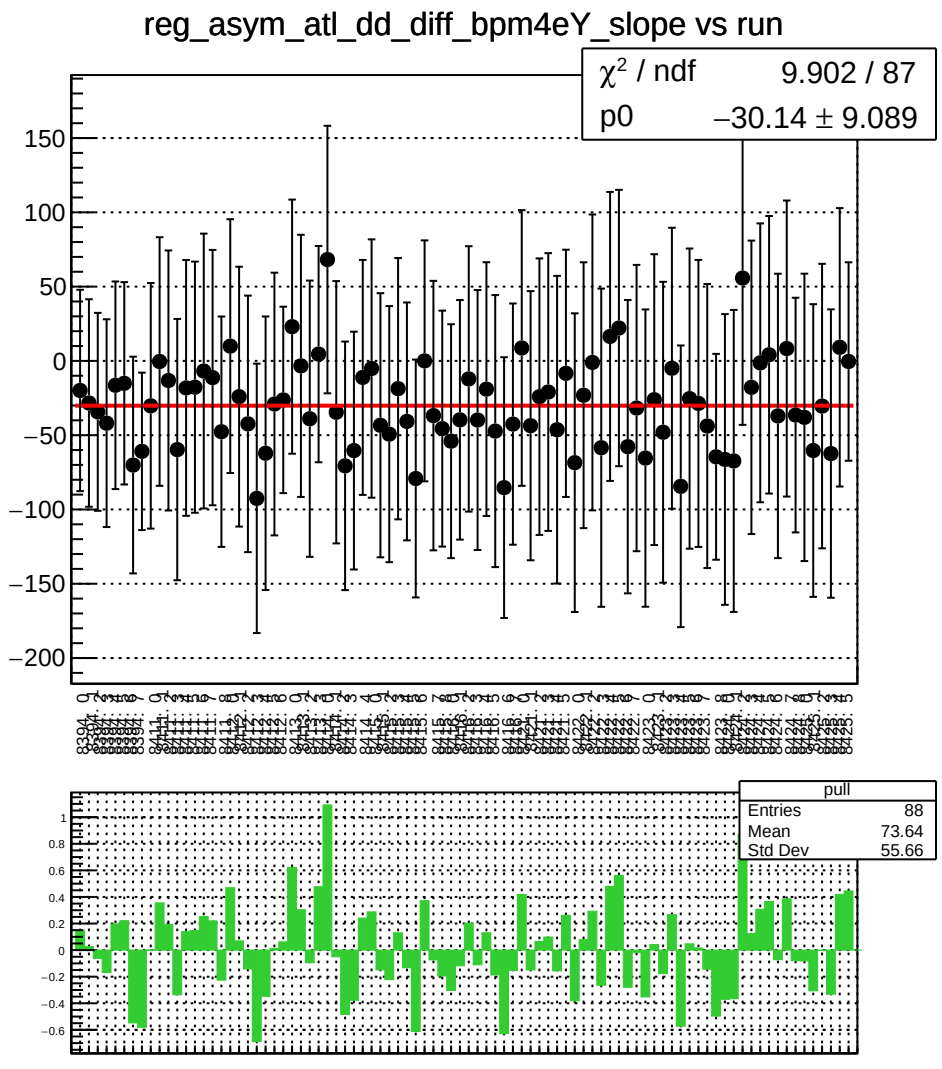

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ^2 / ndf 9.321 / 87
p0 251.6 ± 4.648
pull
Entries 88
Mean −249.8
Std Dev 0
pull1D
Entries 88
Mean −0.003789
Std Dev 0.3254

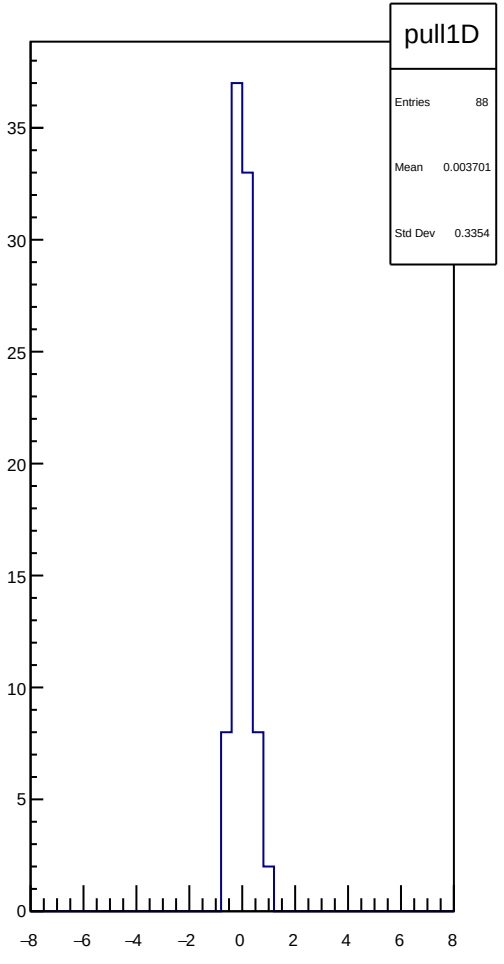

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.06 / 87
p0 −35.37 ± 8.665
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 67.57
Std Dev 65.42
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

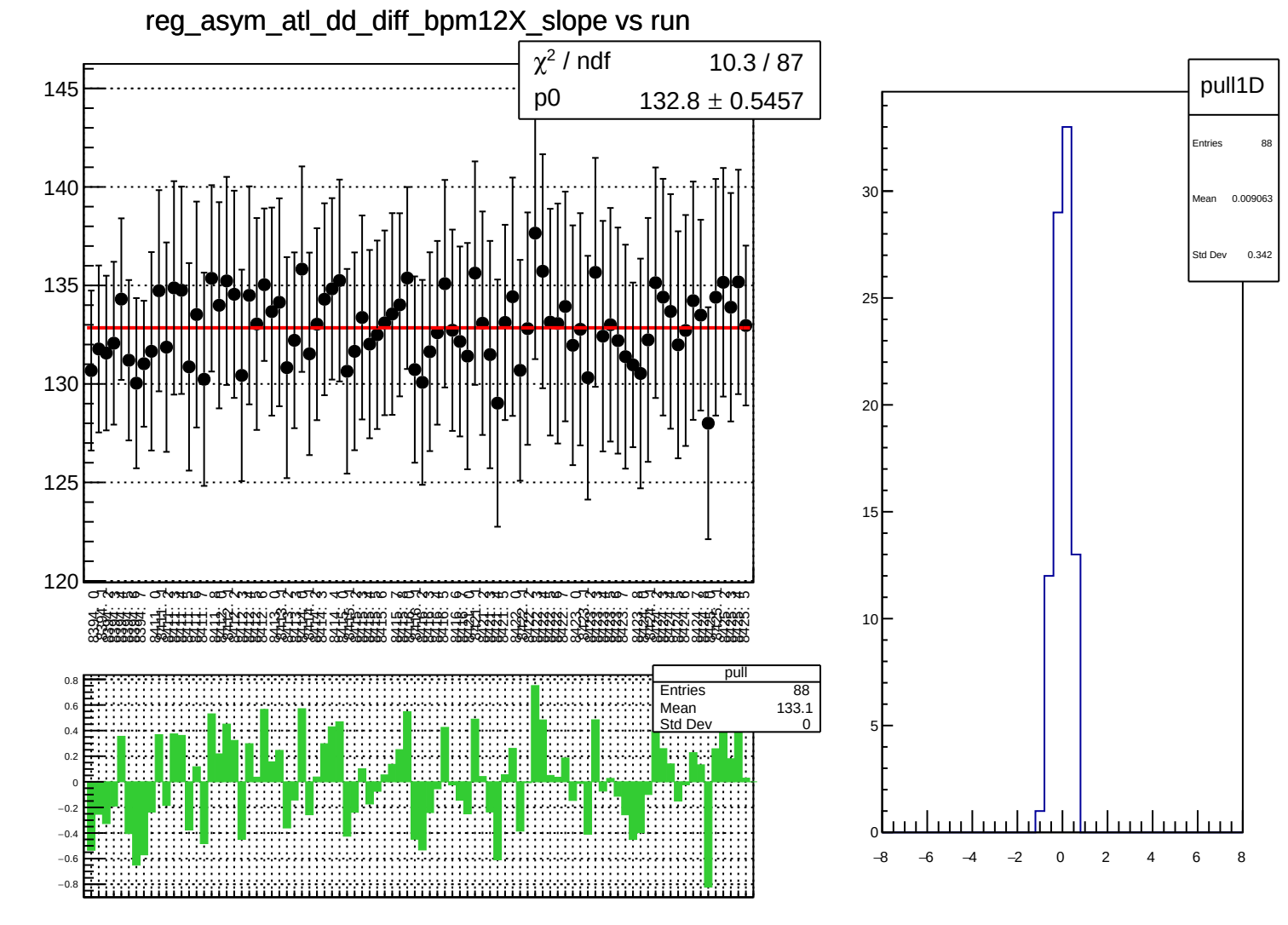

pull1D
Entries 88
Mean −0.003393
Std Dev 0.3381
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

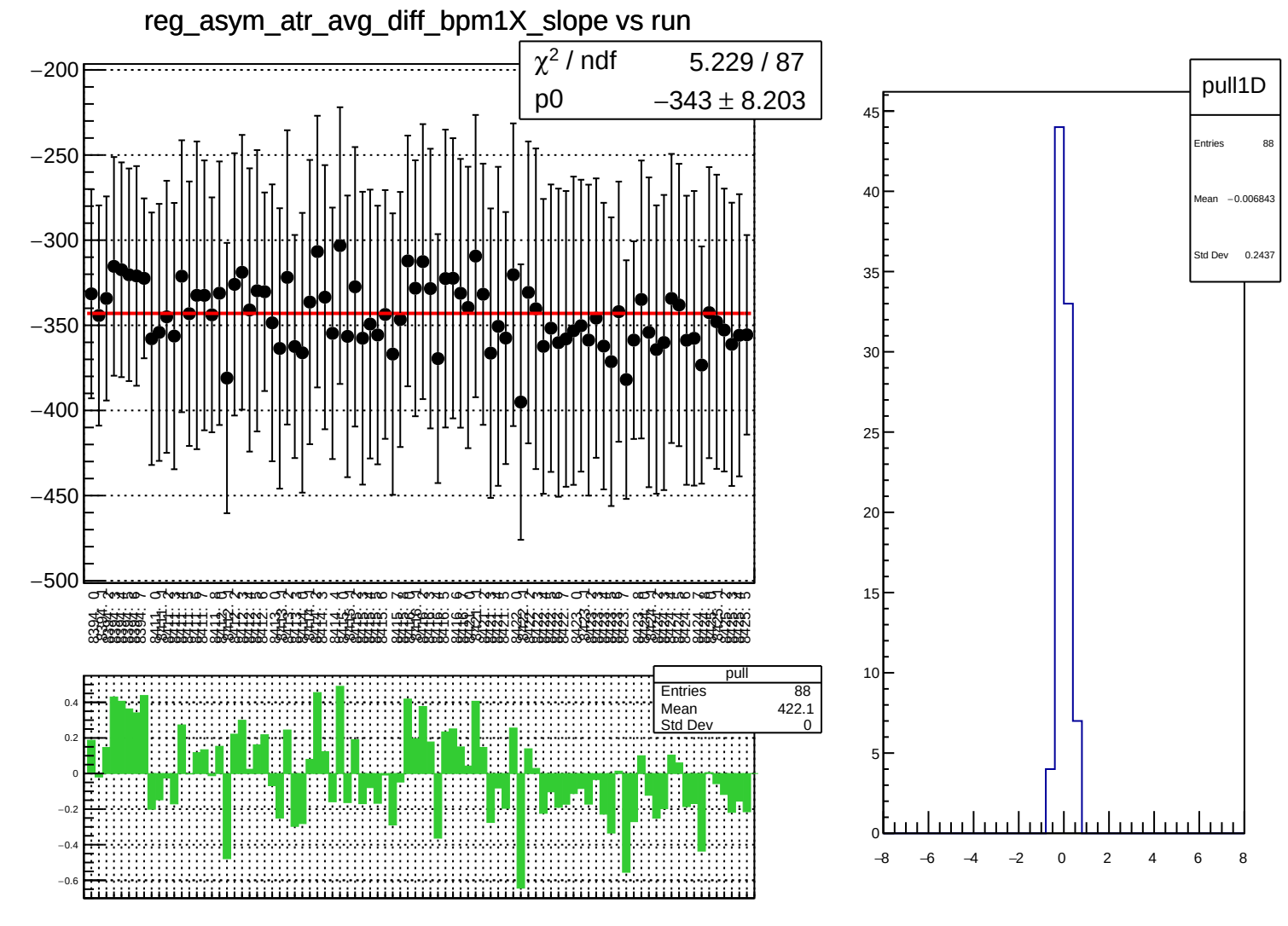

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.123 / 87
p0 −168.8 ± 5.188
pull
Entries 88
Mean −99.35
Std Dev 0

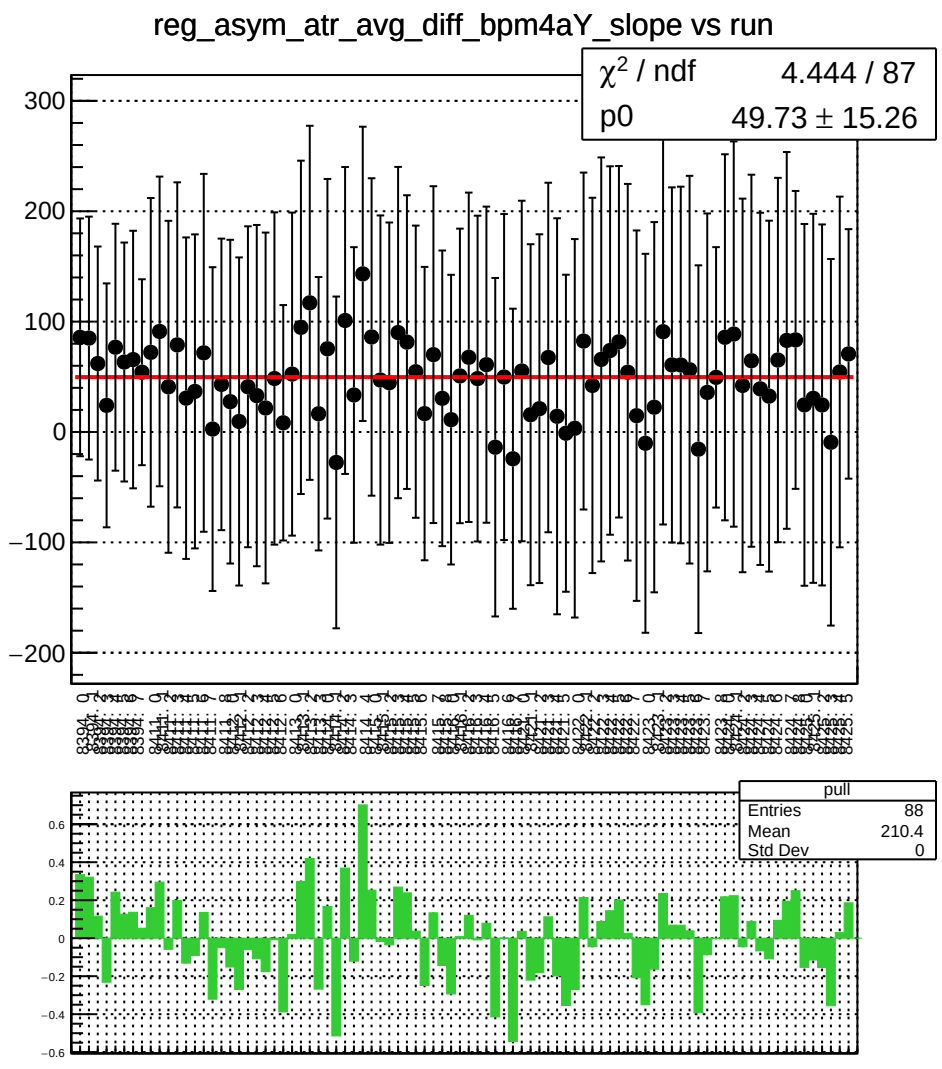

pull1D
Entries 88
Mean 0.004425
Std Dev 0.3219

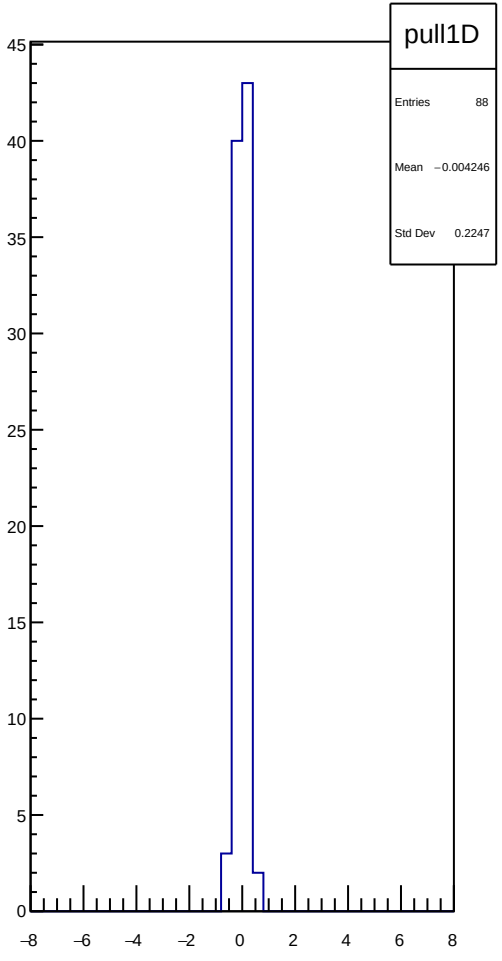

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.902 / 87
p0 −30.14 ± 9.089
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 73.64
Std Dev 55.66
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

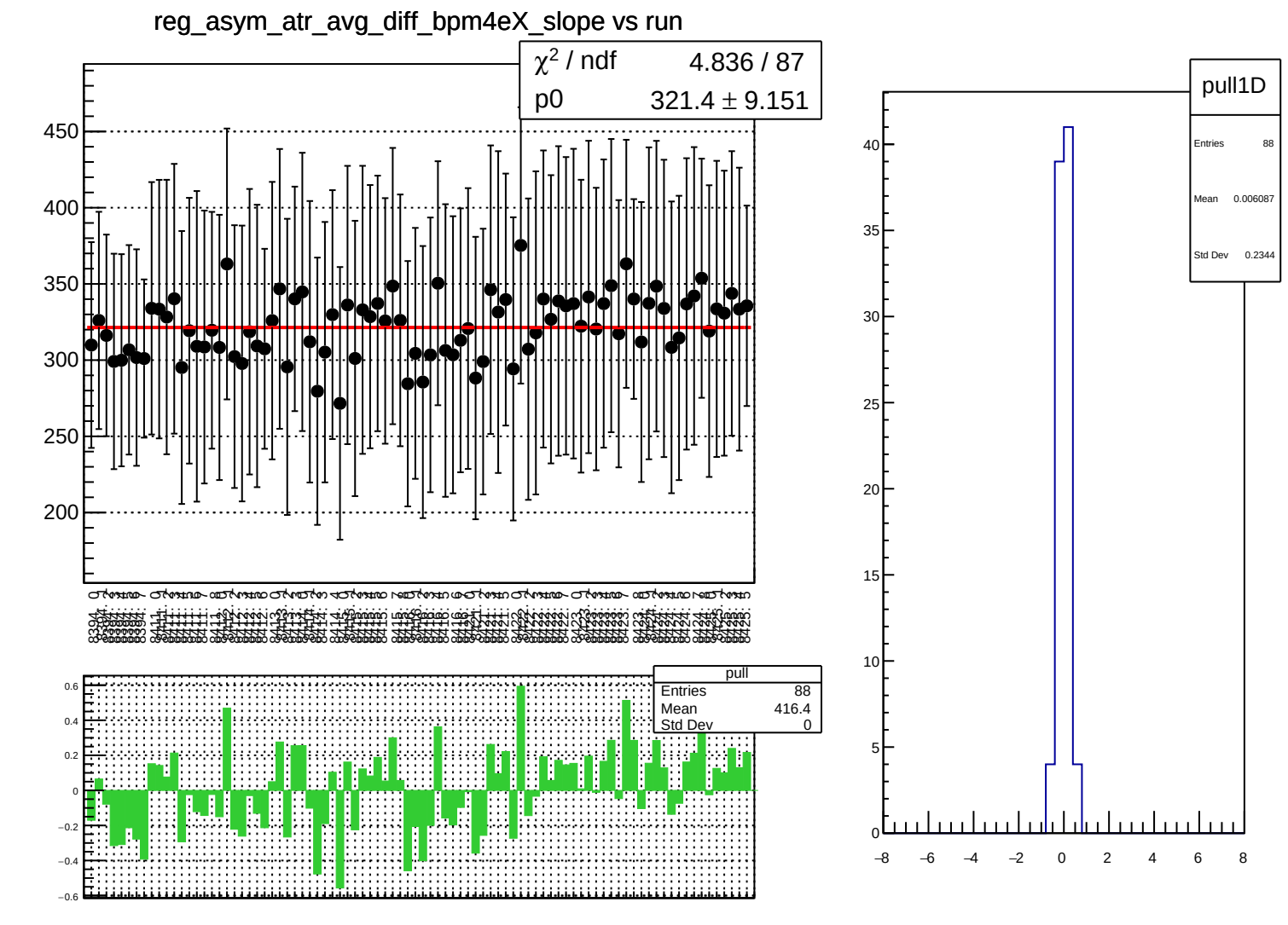

pull1D
Entries 88
Mean 0.003701
Std Dev 0.3354
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

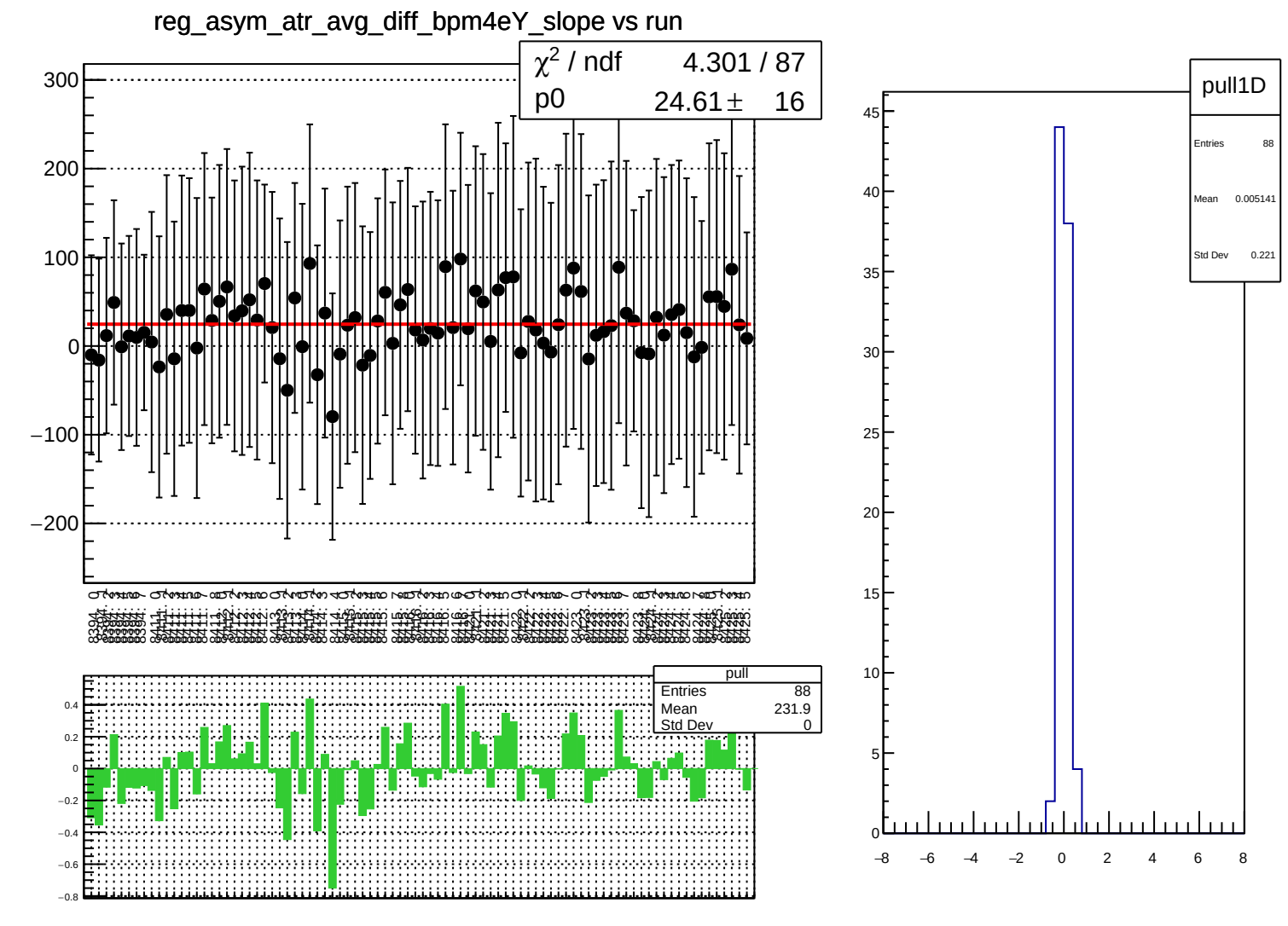

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 10.3 / 87
p0 132.8 ± 0.5457
pull
Entries 88
Mean 133.1
Std Dev 0
pull1D
Entries 88
Mean 0.009063
Std Dev 0.342

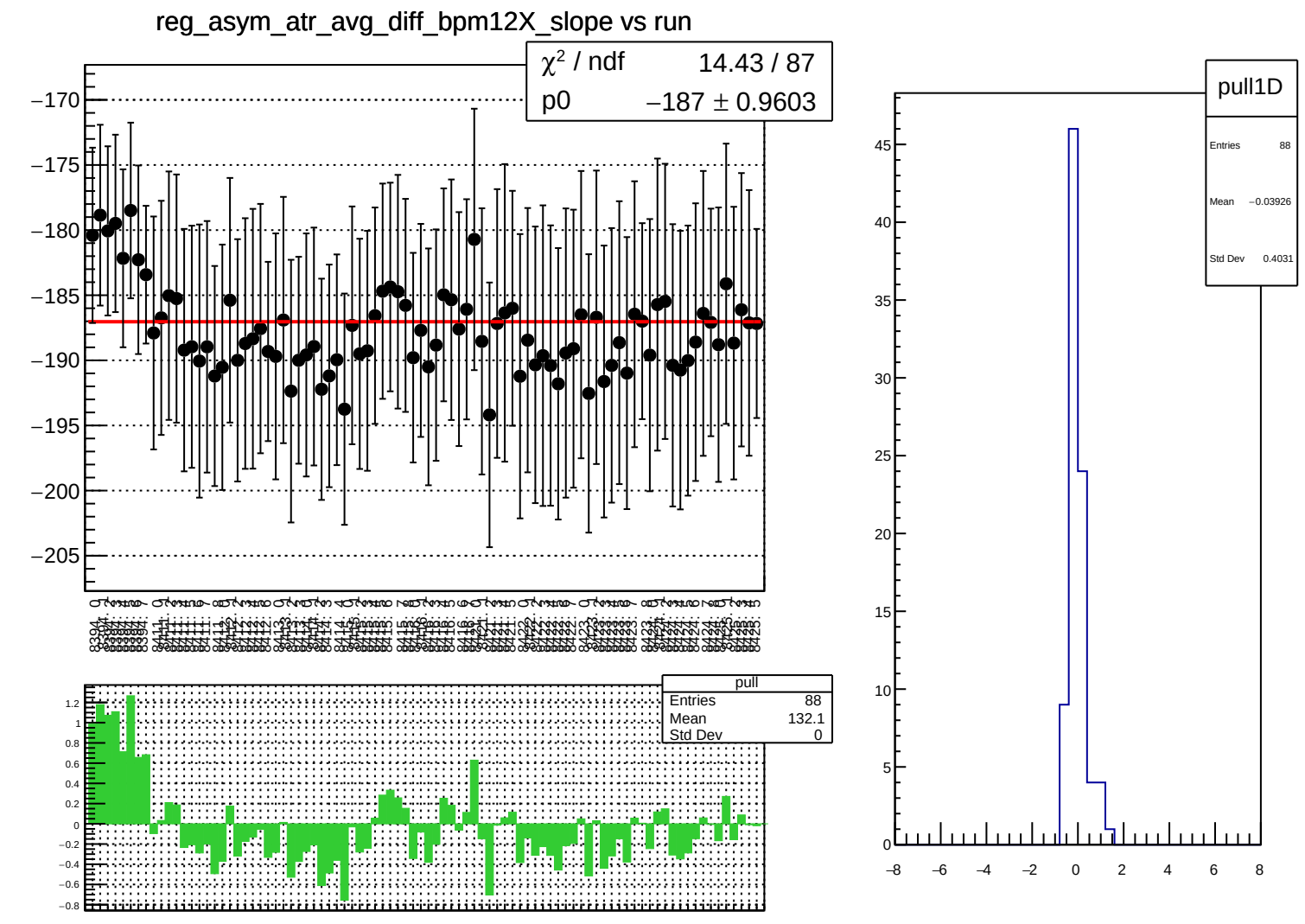

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 5.229 / 87
p0 −343 ± 8.203
pull
Entries 88
Mean 422.1
Std Dev 0
pull1D
Entries 88
Mean −0.006843
Std Dev 0.2437

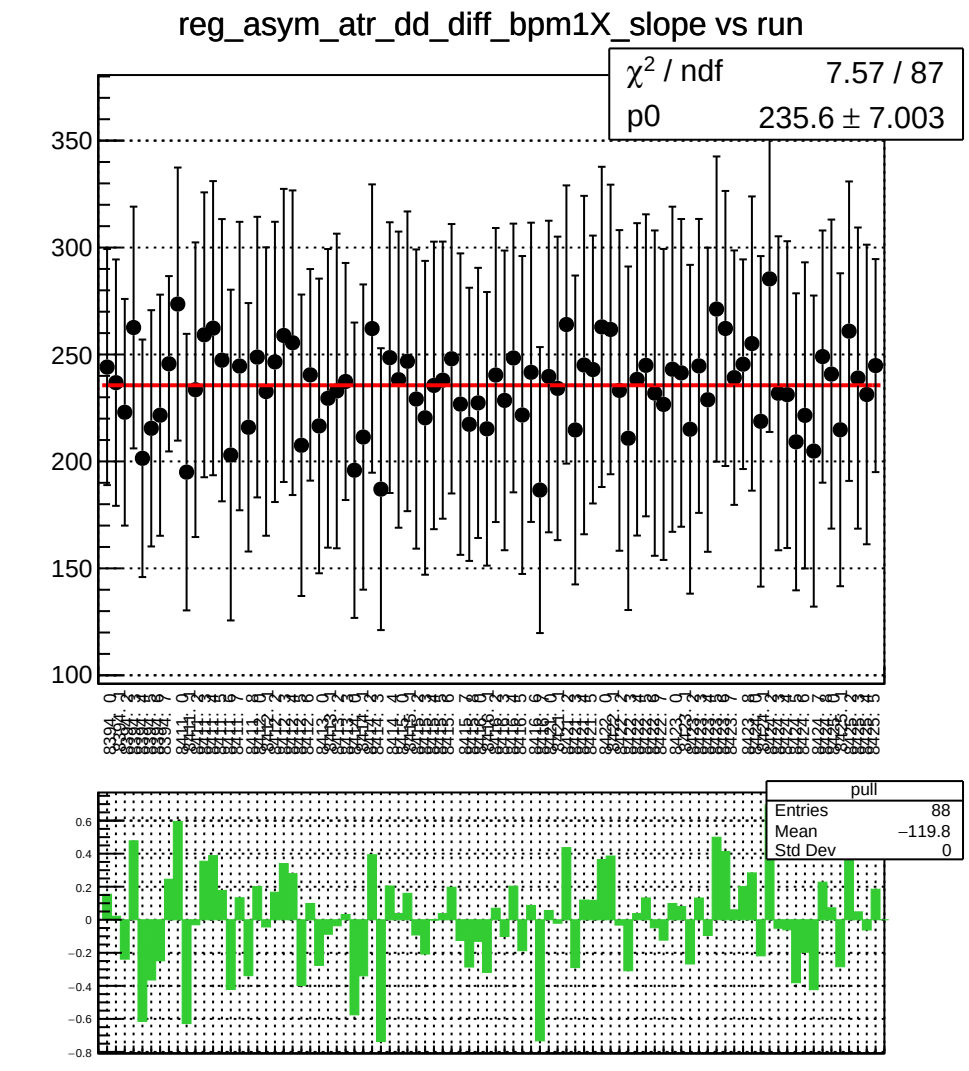

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.444 / 87
p0 49.73 ± 15.26
pull
Entries 88
Mean 210.4
Std Dev 0

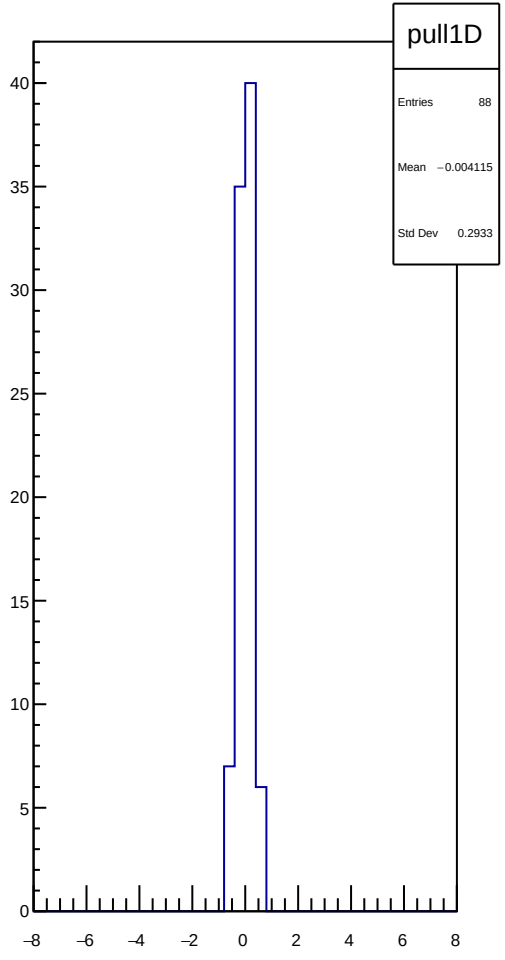

pull1D
Entries 88
Mean −0.004246
Std Dev 0.2247

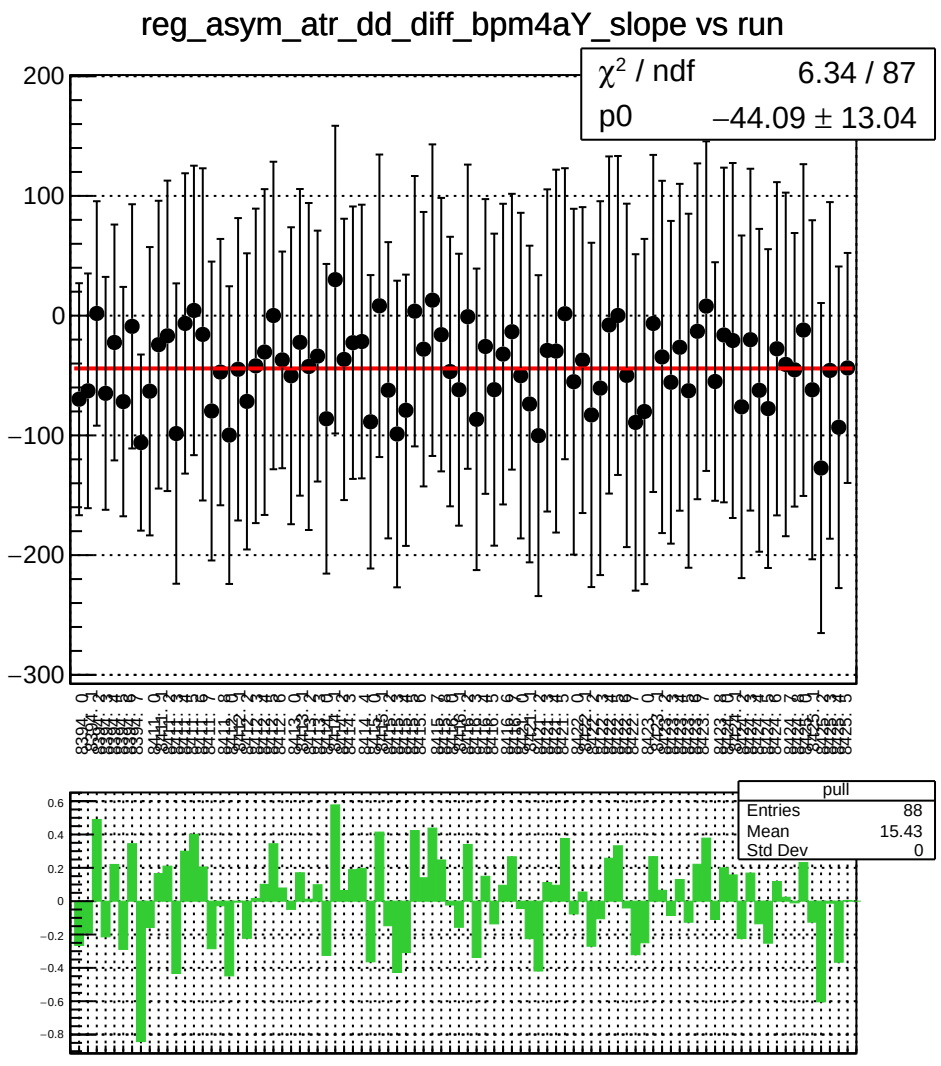

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.836 / 87
p0 321.4 ± 9.151
pull
Entries 88
Mean 416.4
Std Dev 0
pull1D
Entries 88
Mean 0.006087
Std Dev 0.2344

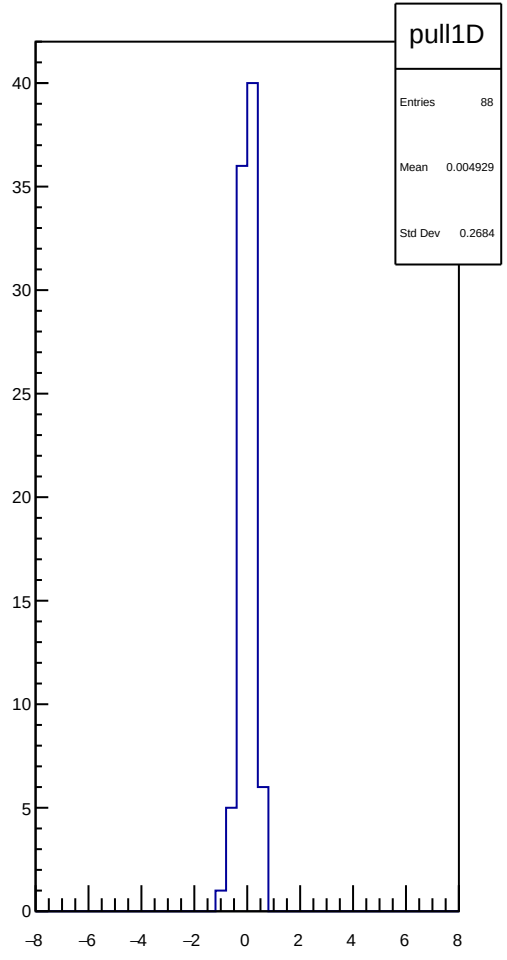

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.301 / 87
p0 24.61 ± 16
pull
Entries 88
Mean 231.9
Std Dev 0
pull1D
Entries 88
Mean 0.005141
Std Dev 0.221

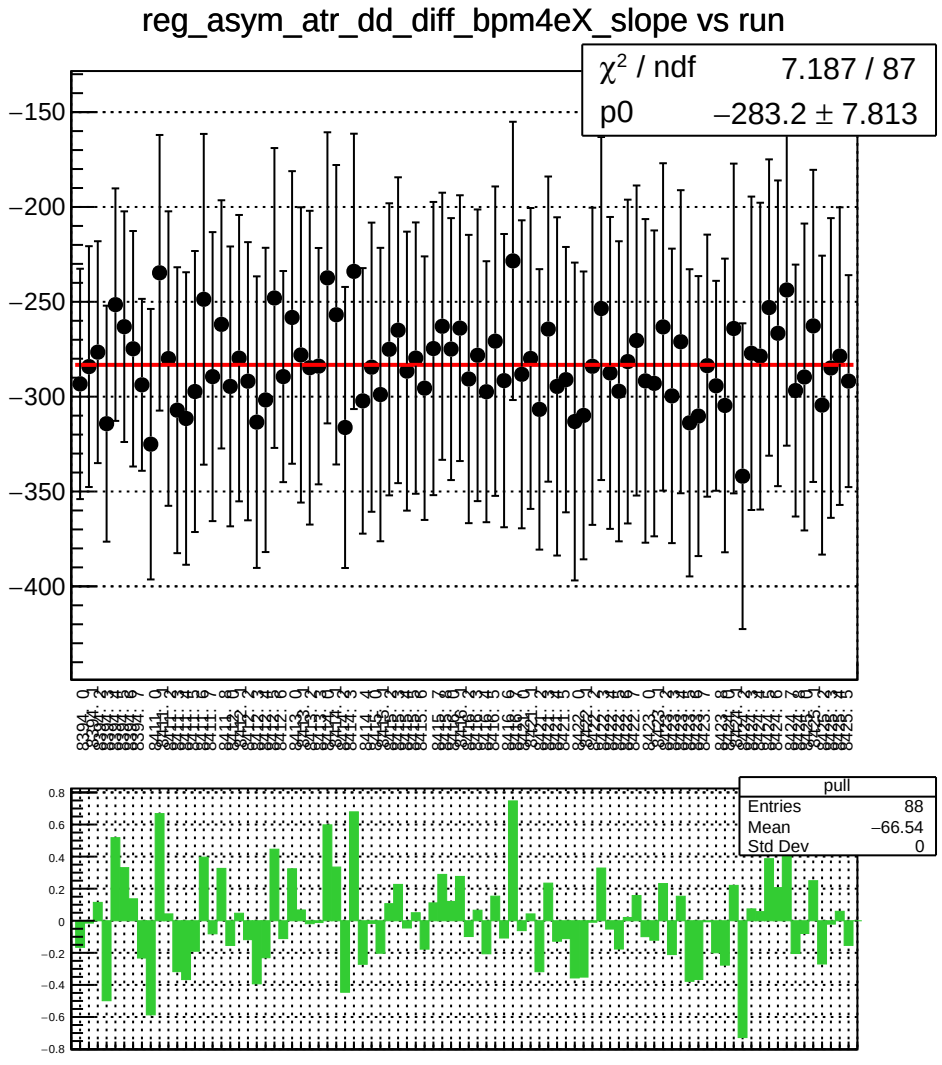

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 14.43 / 87
p0 −187 ± 0.9603
pull
Entries 88
Mean 132.1
Std Dev 0
pull1D
Entries 88
Mean −0.03926
Std Dev 0.4031

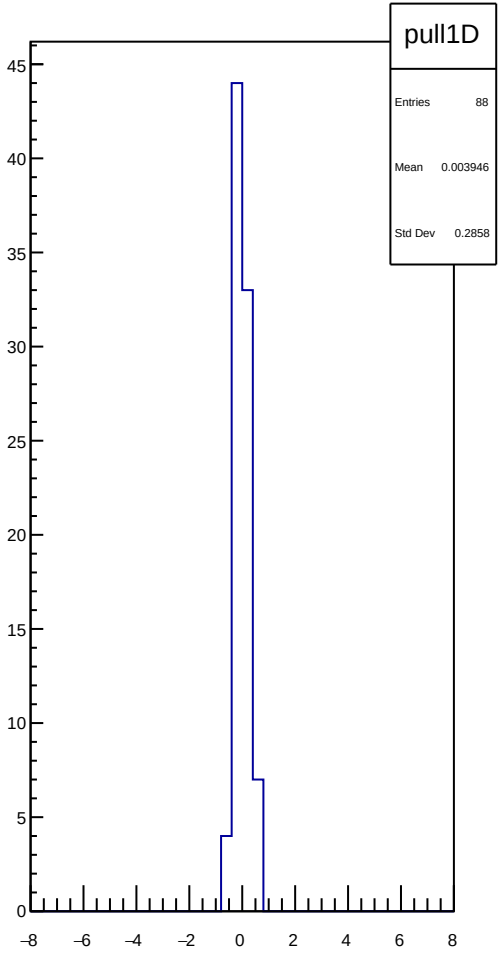

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 7.57 / 87
p0 235.6 ± 7.003
pull
Entries 88
Mean −119.8
Std Dev 0

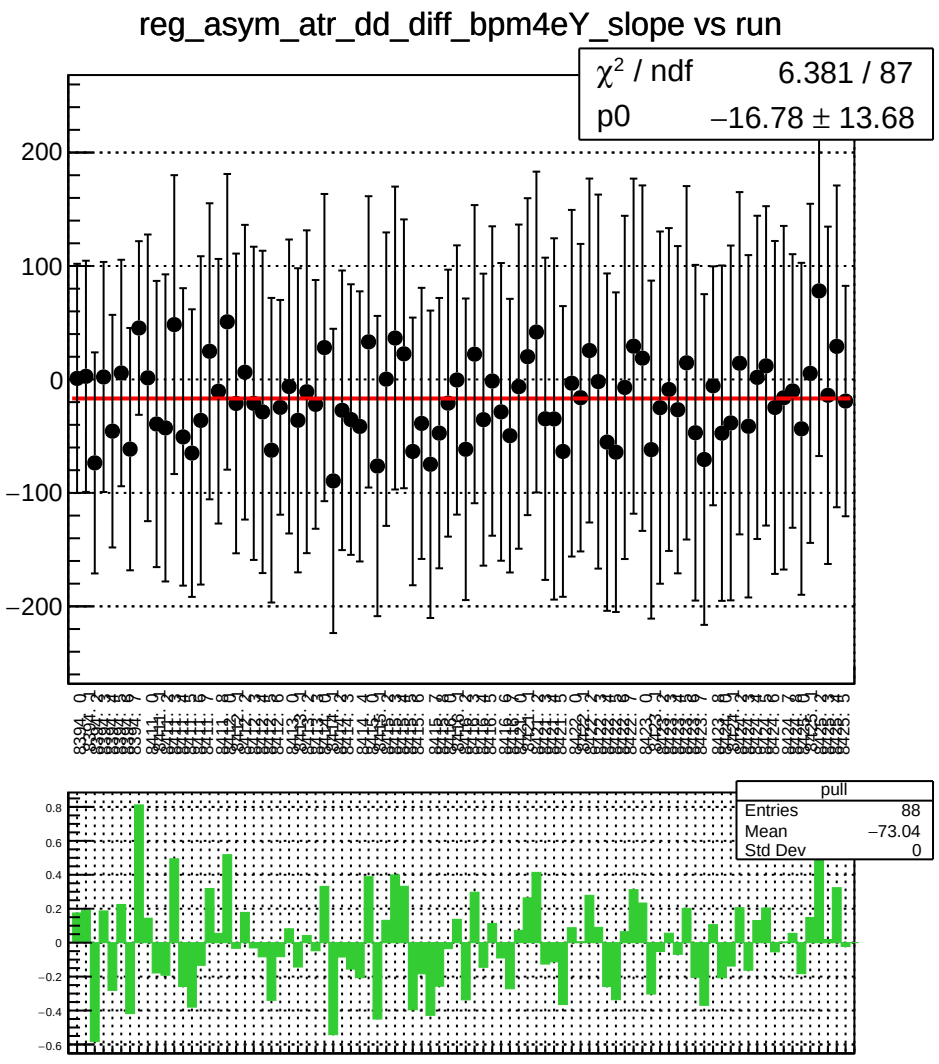

pull1D
Entries 88
Mean −0.004115
Std Dev 0.2933

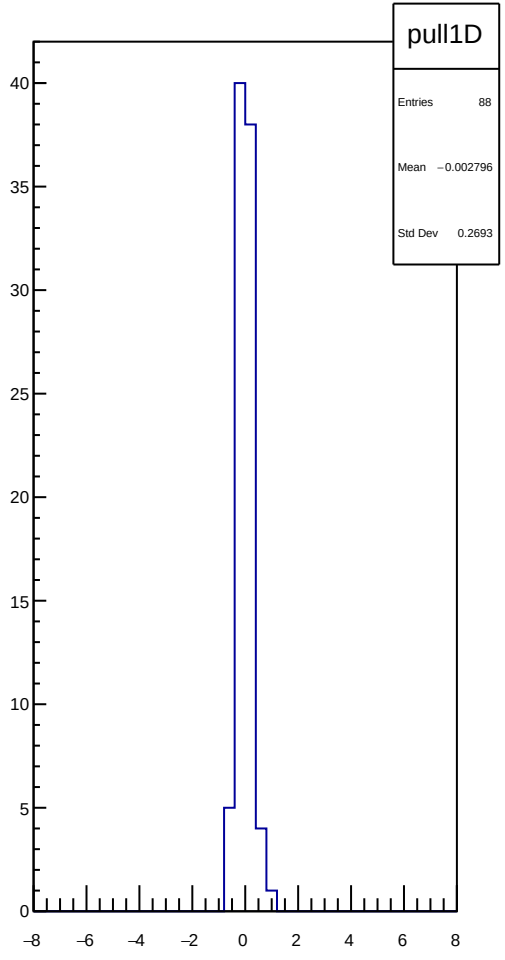

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.34 / 87
p0 −44.09 ± 13.04
pull
Entries 88
Mean 15.43
Std Dev 0

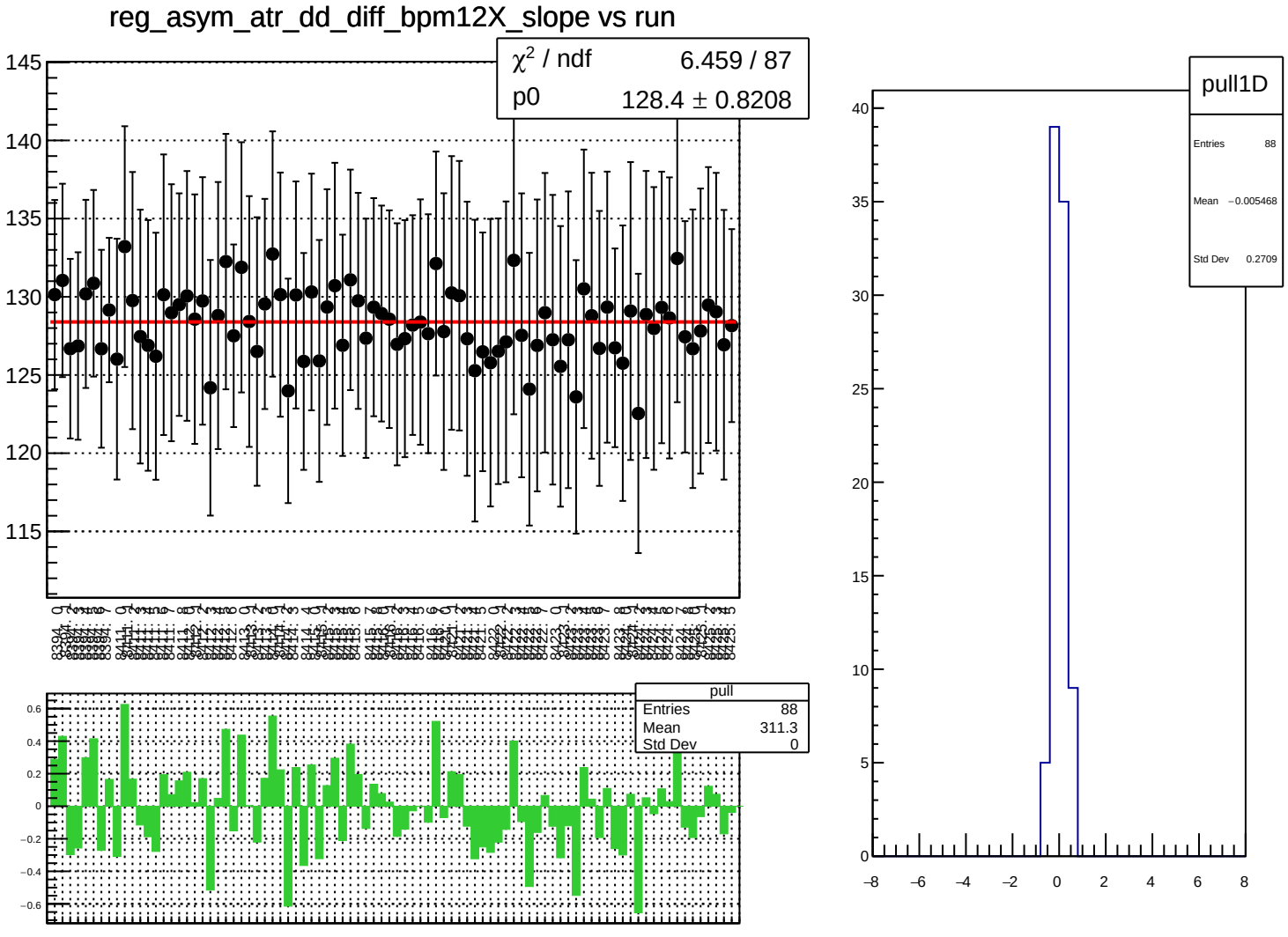

pull1D
Entries 88
Mean 0.004929
Std Dev 0.2684

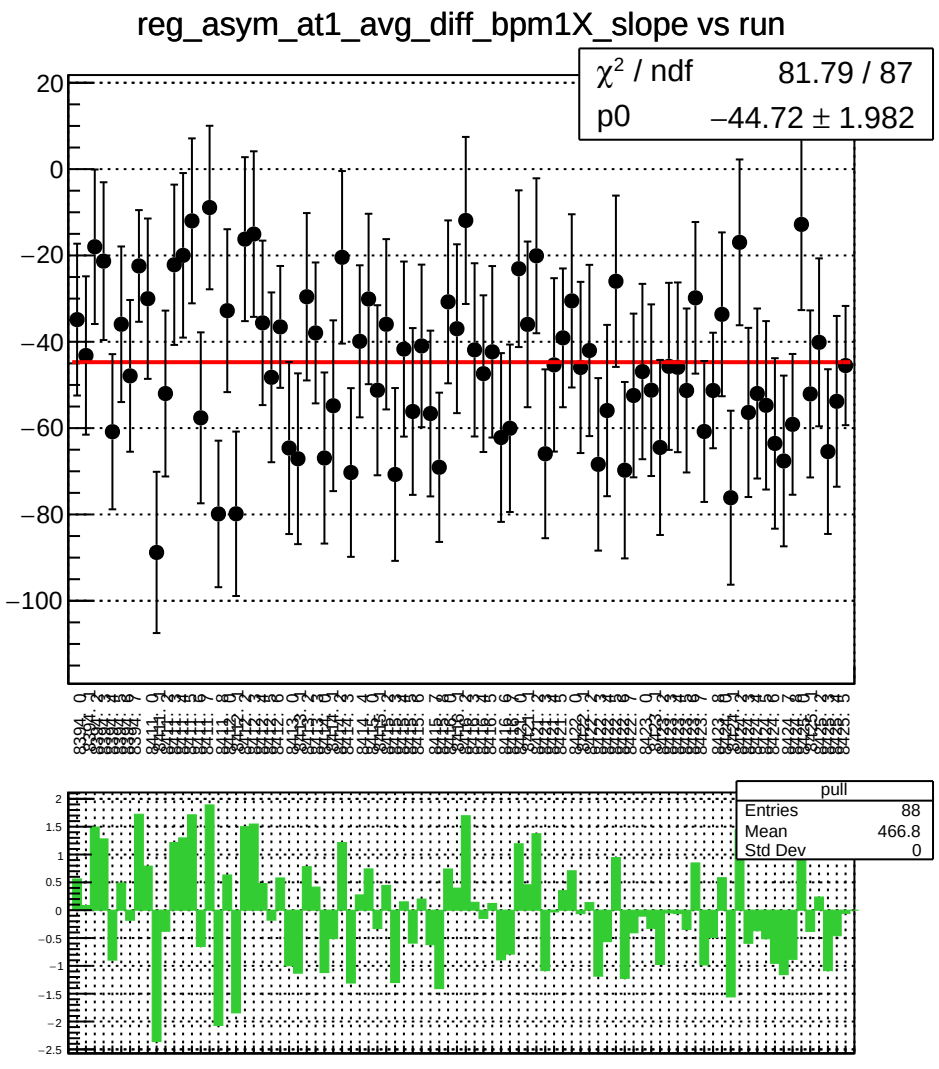

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.187 / 87
p0 −283.2 ± 7.813
−150
−200
−250
−300
−350
−400
pull
Entries 88
Mean −66.54
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

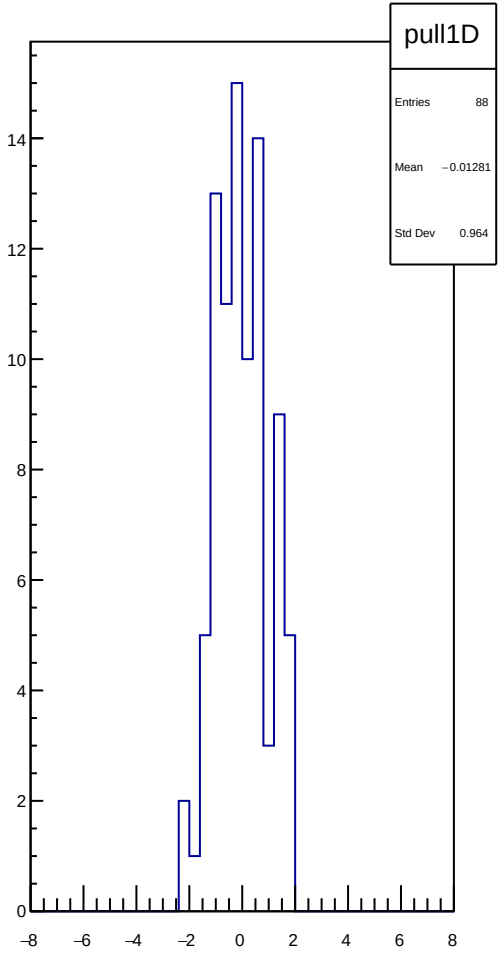

pull1D
Entries 88
Mean 0.003946
Std Dev 0.2858
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

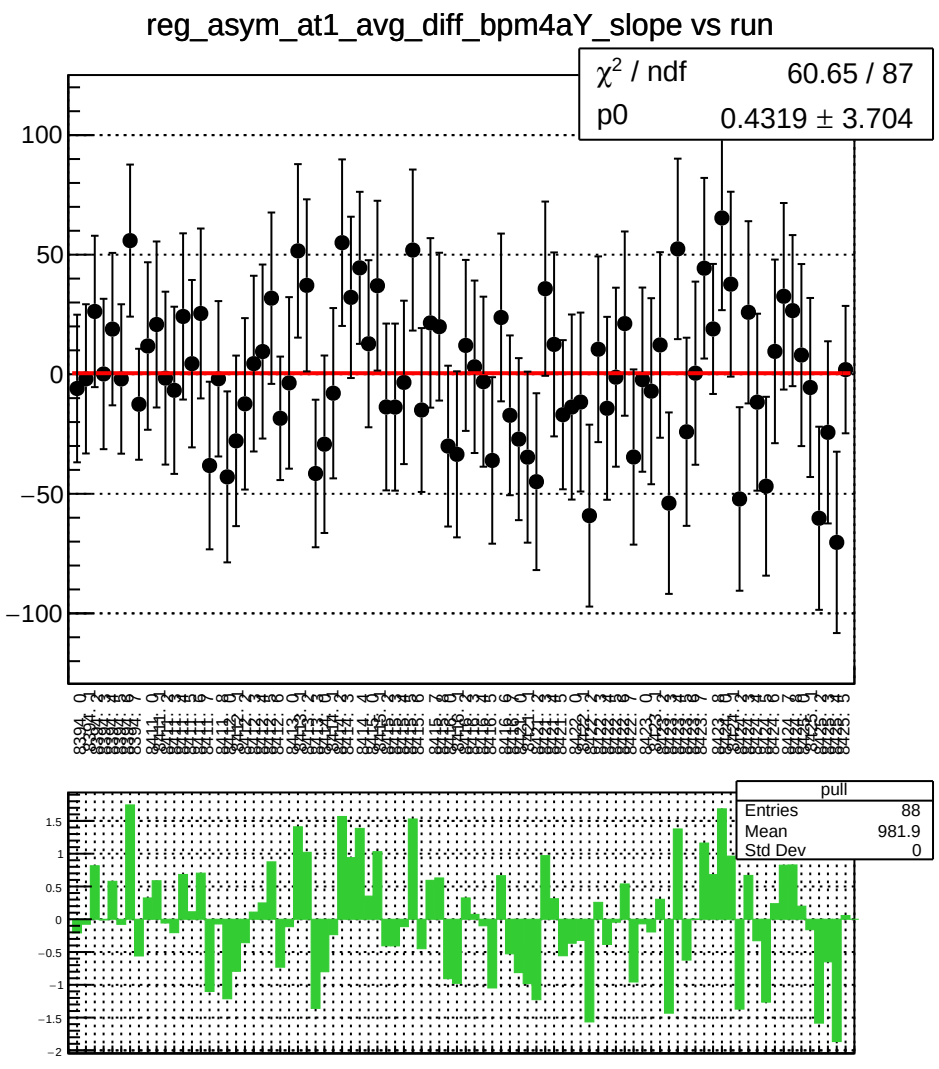

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.381 / 87
p0 −16.78 ± 13.68
200
100
0
−100
−200
pull
Entries 88
Mean −73.04
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

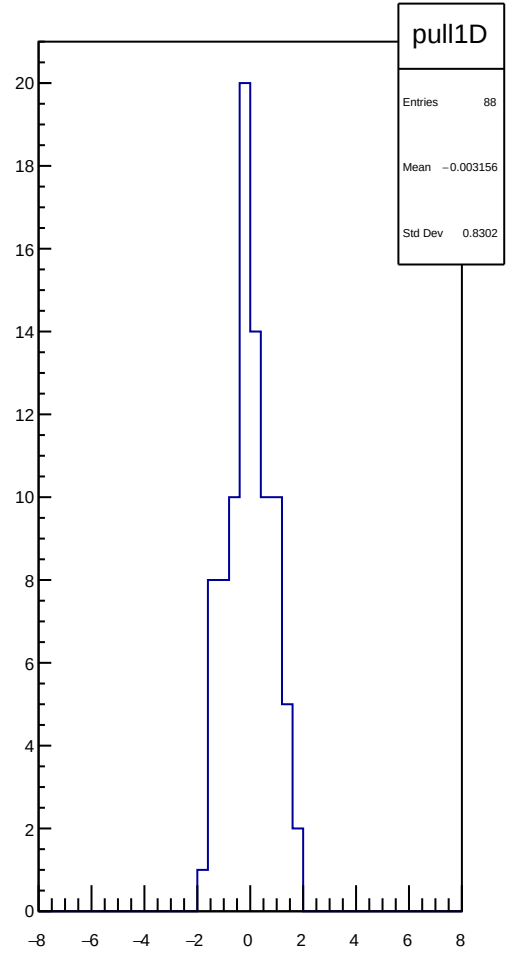

pull1D
Entries 88
Mean −0.002796
Std Dev 0.2693
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

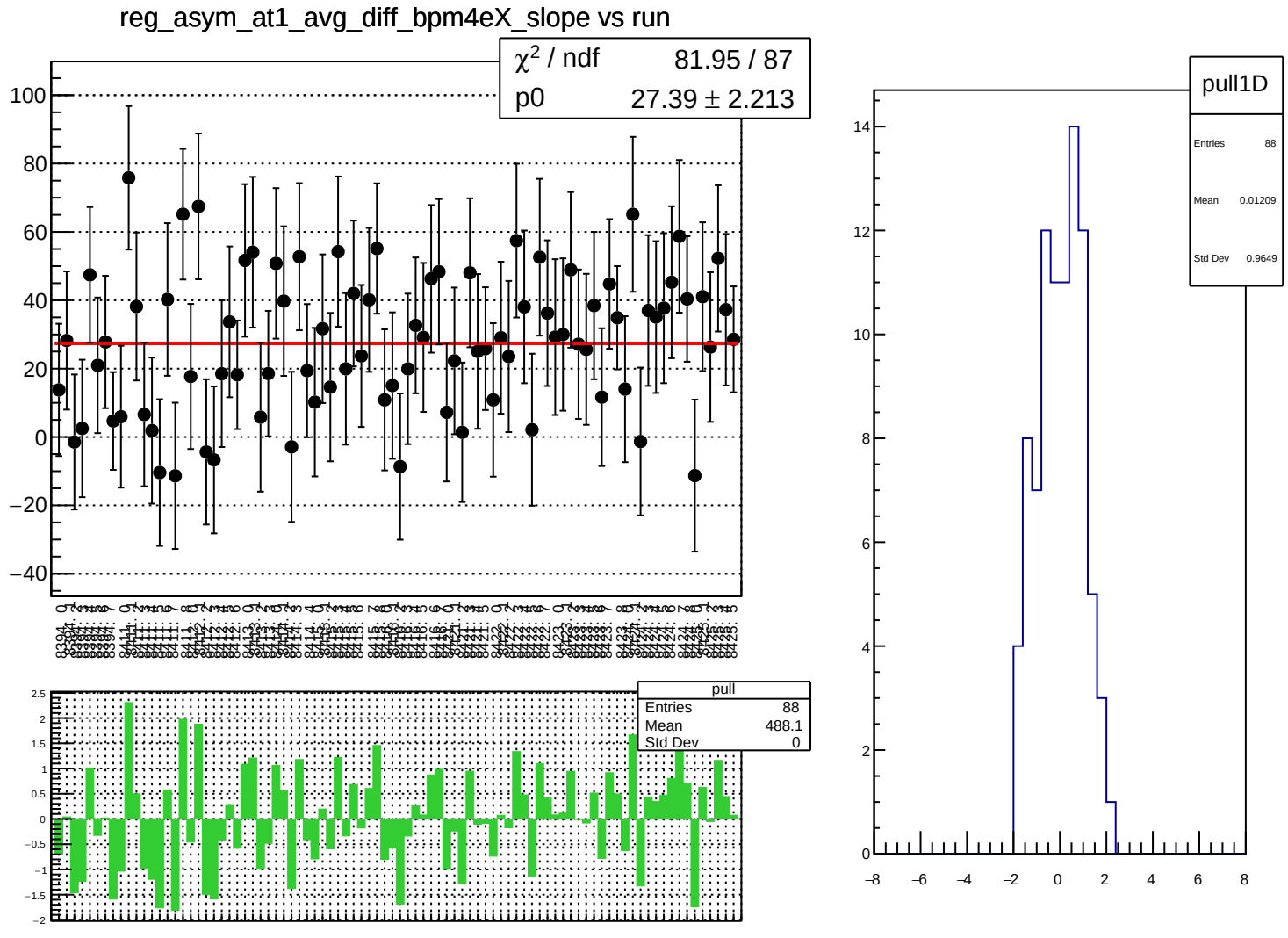

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ^2 / ndf 6.459 / 87
p0 128.4 ± 0.8208
pull
Entries 88
Mean 311.3
Std Dev 0
pull1D
Entries 88
Mean −0.005468
Std Dev 0.2709

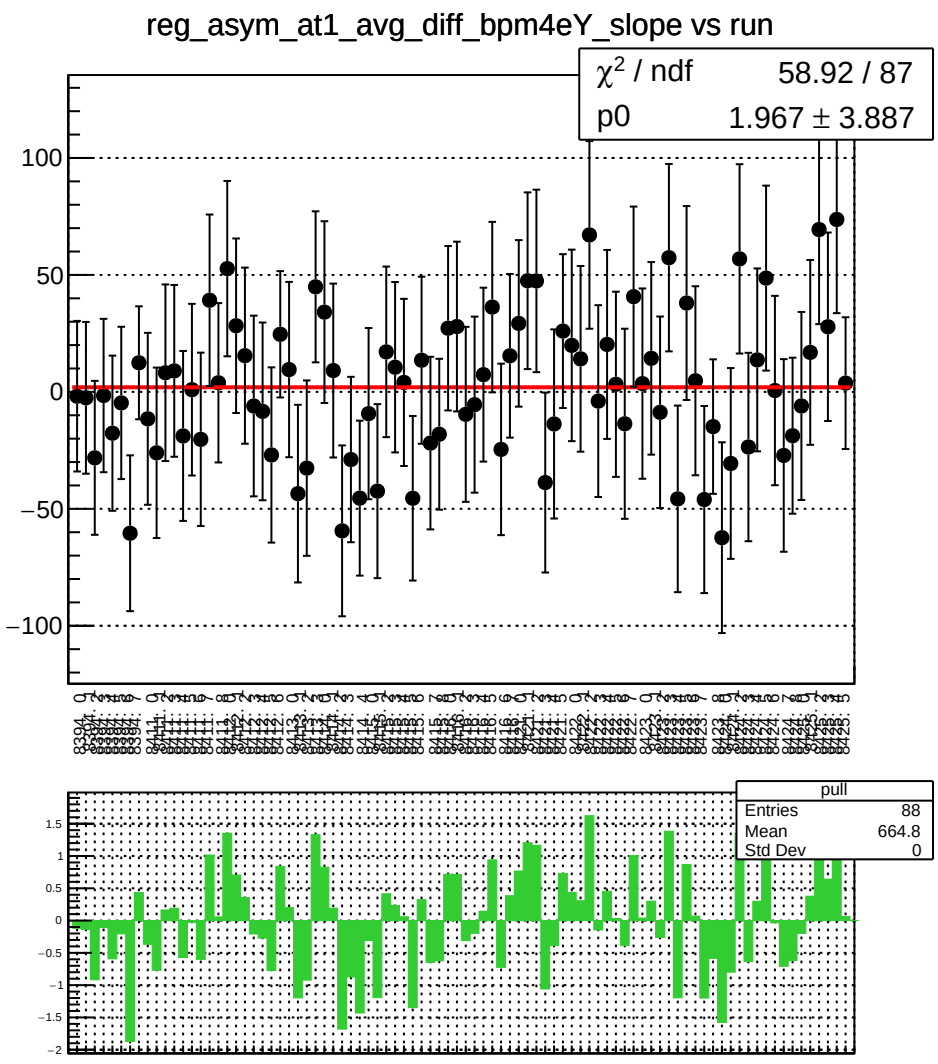

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 81.79 / 87
p0 −44.72 ± 1.982
pull
Entries 88
Mean 466.8
Std Dev 0

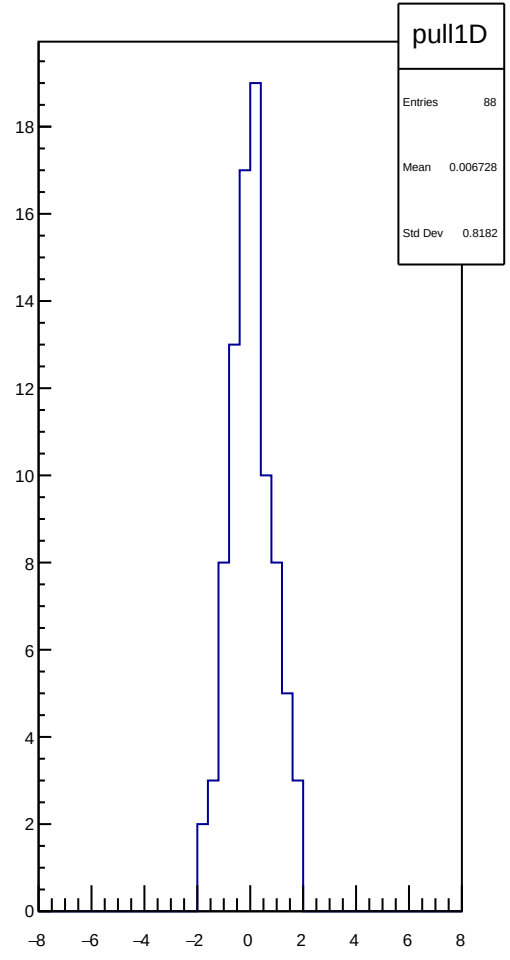

pull1D
Entries 88
Mean −0.01281
Std Dev 0.964

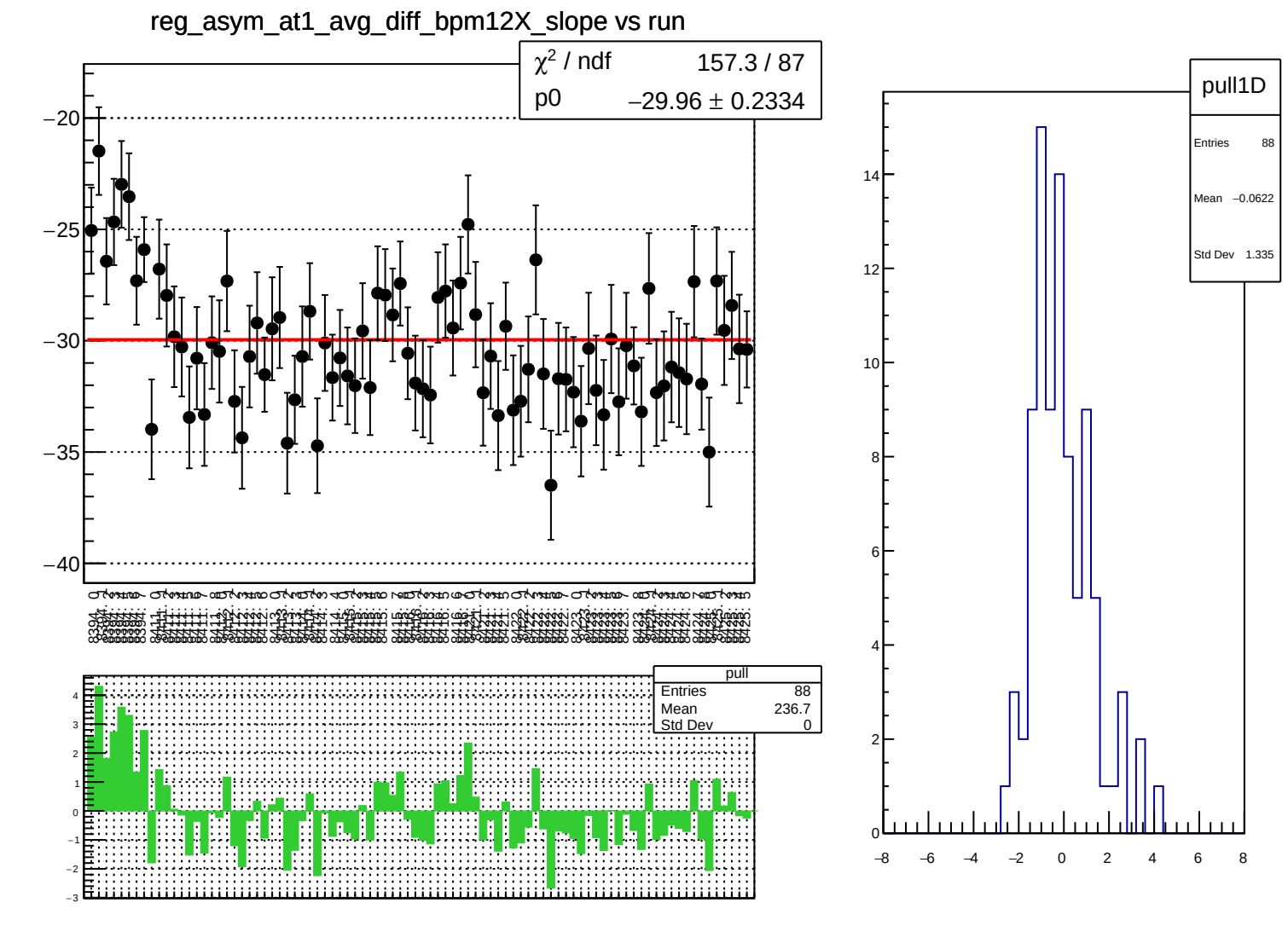

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 60.65 / 87
p0 0.4319 ± 3.704
100
50
0
−50
−100
pull
Entries 88
Mean 981.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

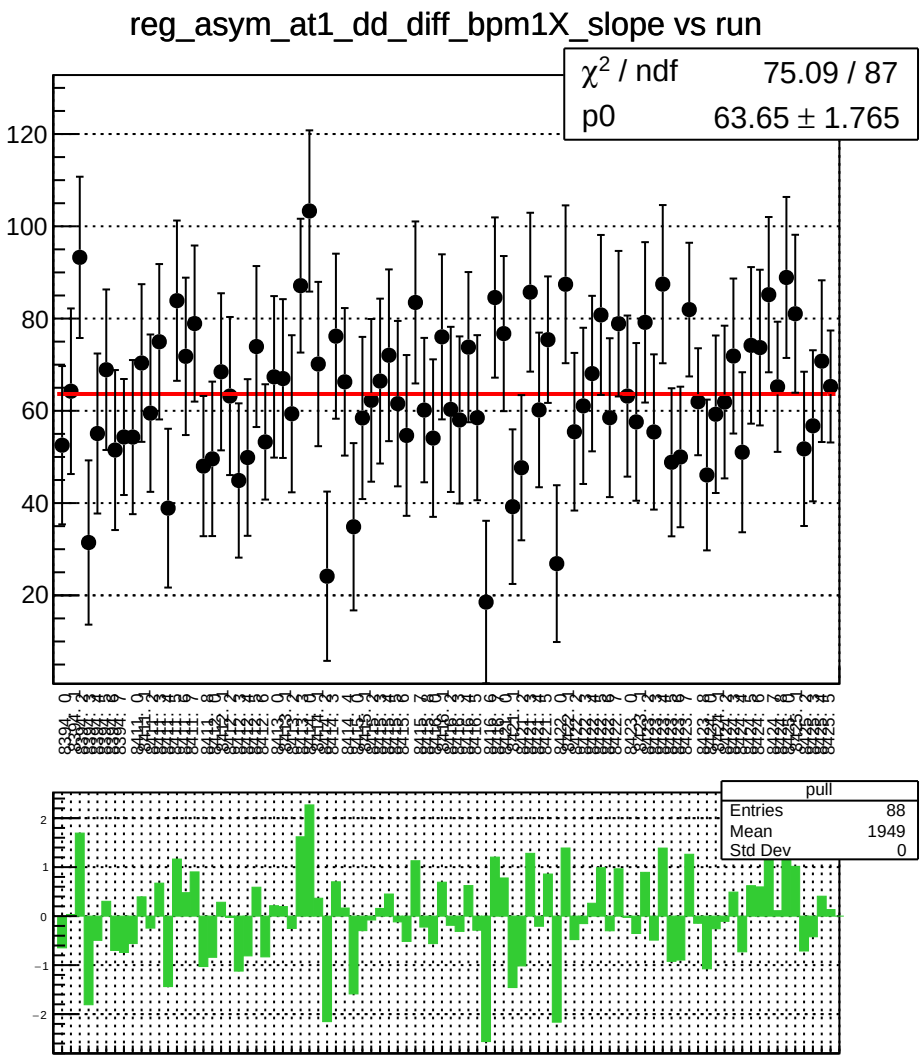

pull1D
Entries 88
Mean −0.003156
Std Dev 0.8302
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

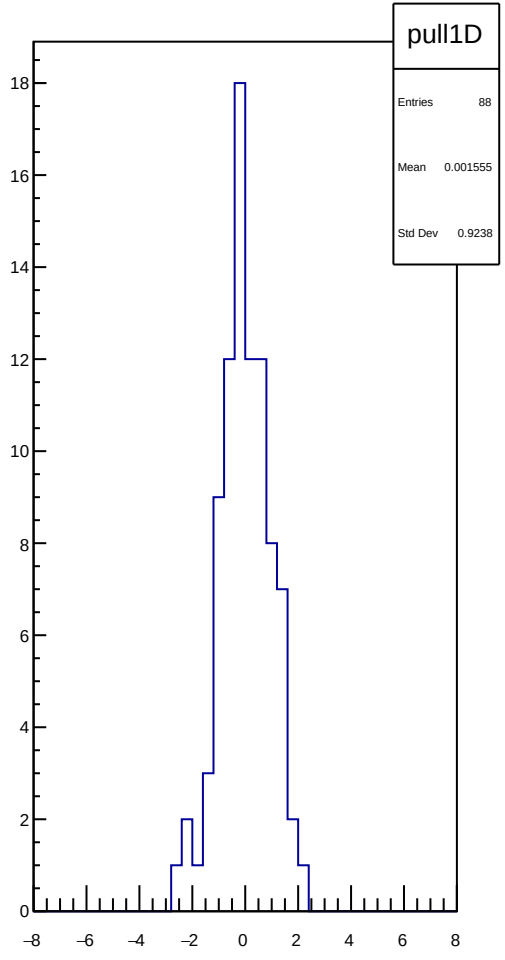

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 81.95 / 87
p0 27.39 ± 2.213
pull
Entries 88
Mean 488.1
Std Dev 0
pull1D
Entries 88
Mean 0.01209
Std Dev 0.9649

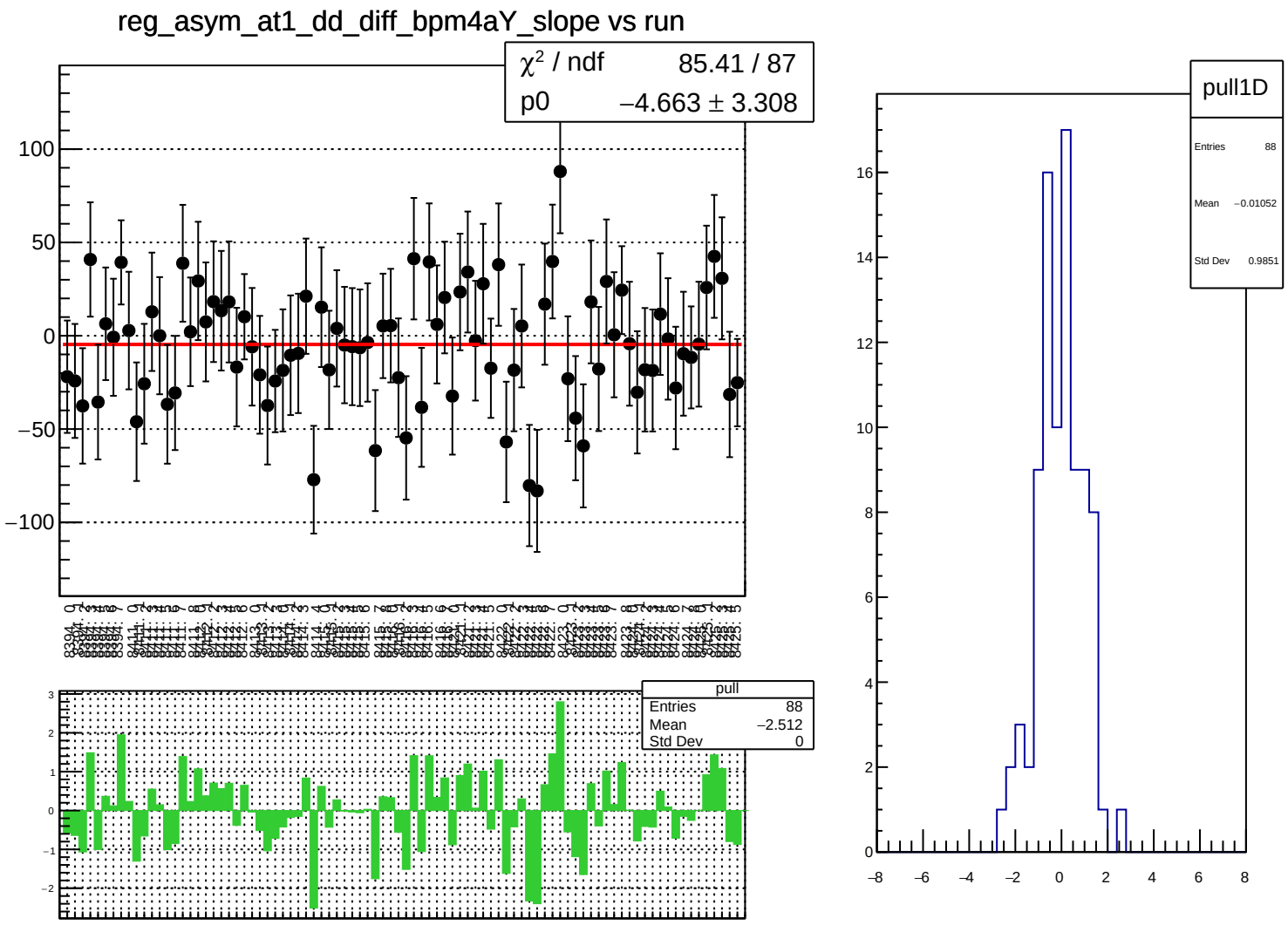

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 58.92 / 87
p0 1.967 ± 3.887
100
50
0
−50
−100
pull
Entries 88
Mean 664.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

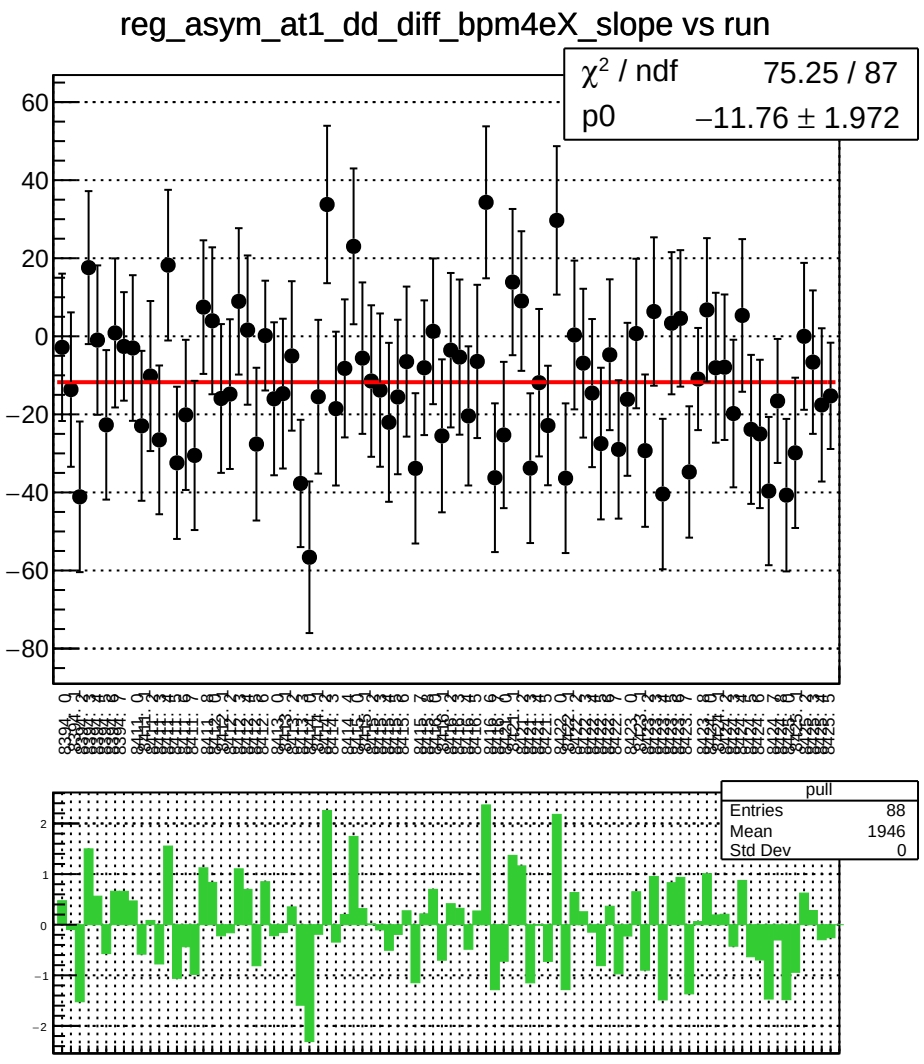

pull1D
Entries 88
Mean 0.006728
Std Dev 0.8182
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

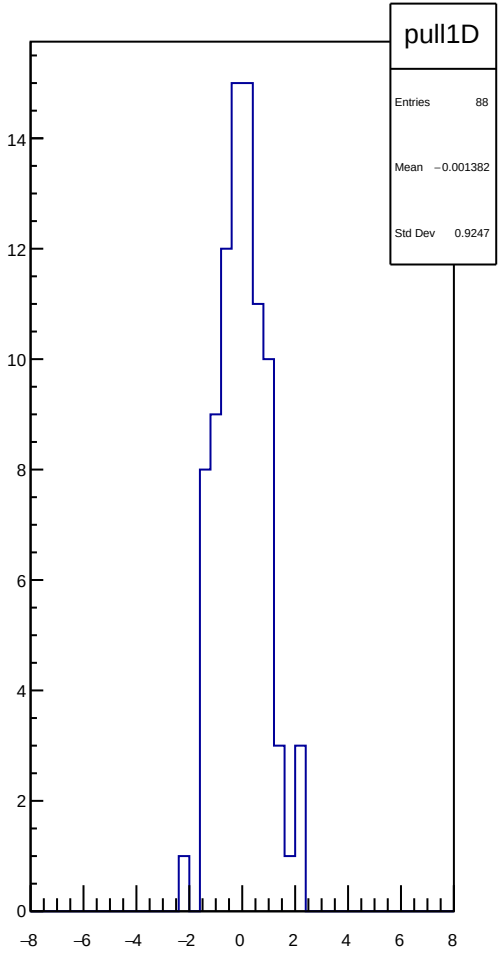

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 157.3 / 87
p0 −29.96 ± 0.2334
pull
Entries 88
Mean 236.7
Std Dev 0
pull1D
Entries 88
Mean −0.0622
Std Dev 1.335

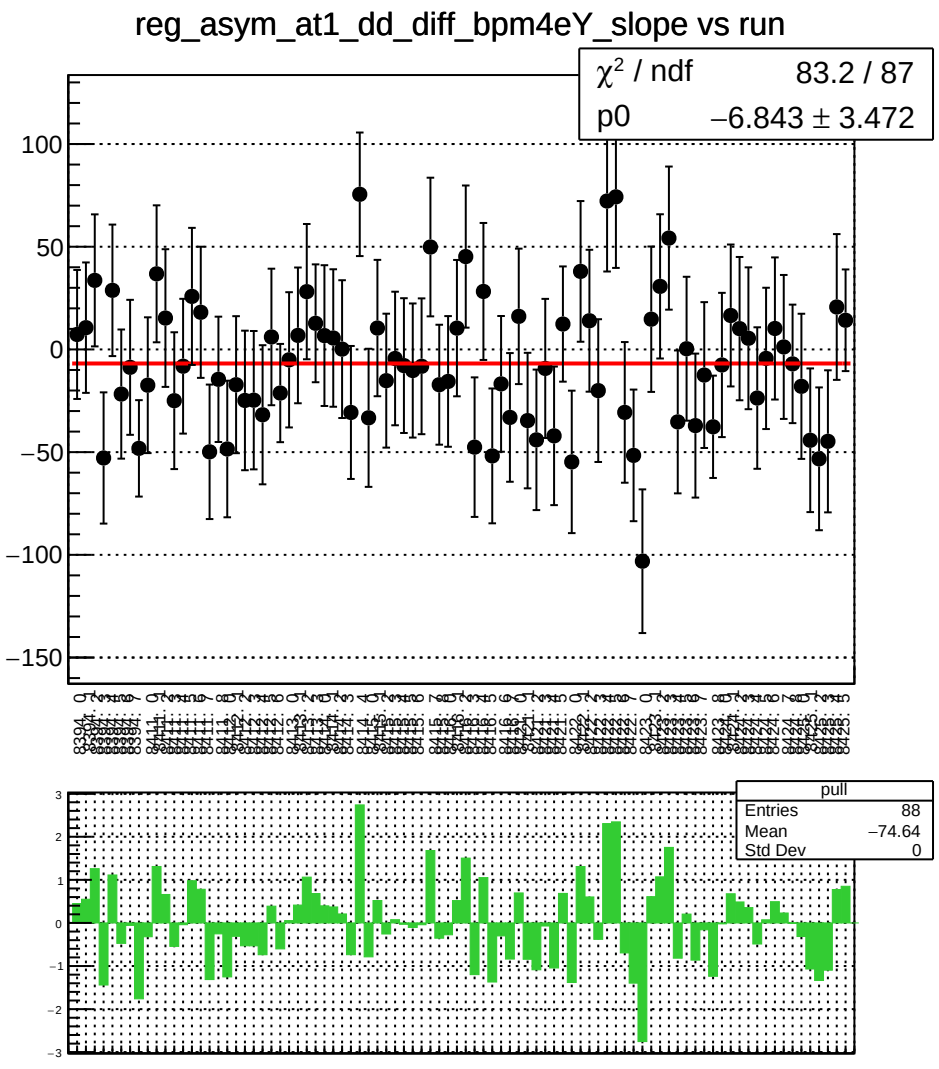

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 75.09 / 87
p0 63.65 ± 1.765
120
100
80
60
40
20
pull
Entries 88
Mean 1949
Std Dev 0
2
1
0
−1
−2

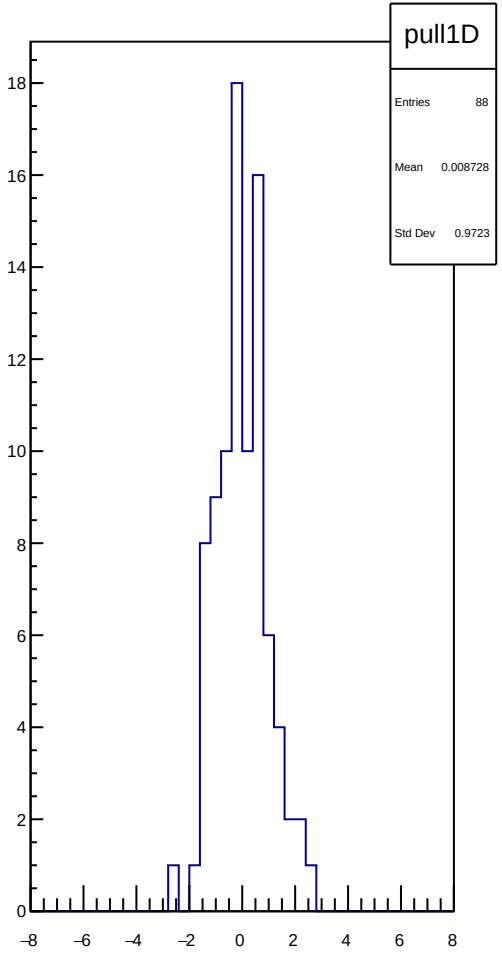

pull1D
Entries 88
Mean 0.001555
Std Dev 0.9238
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

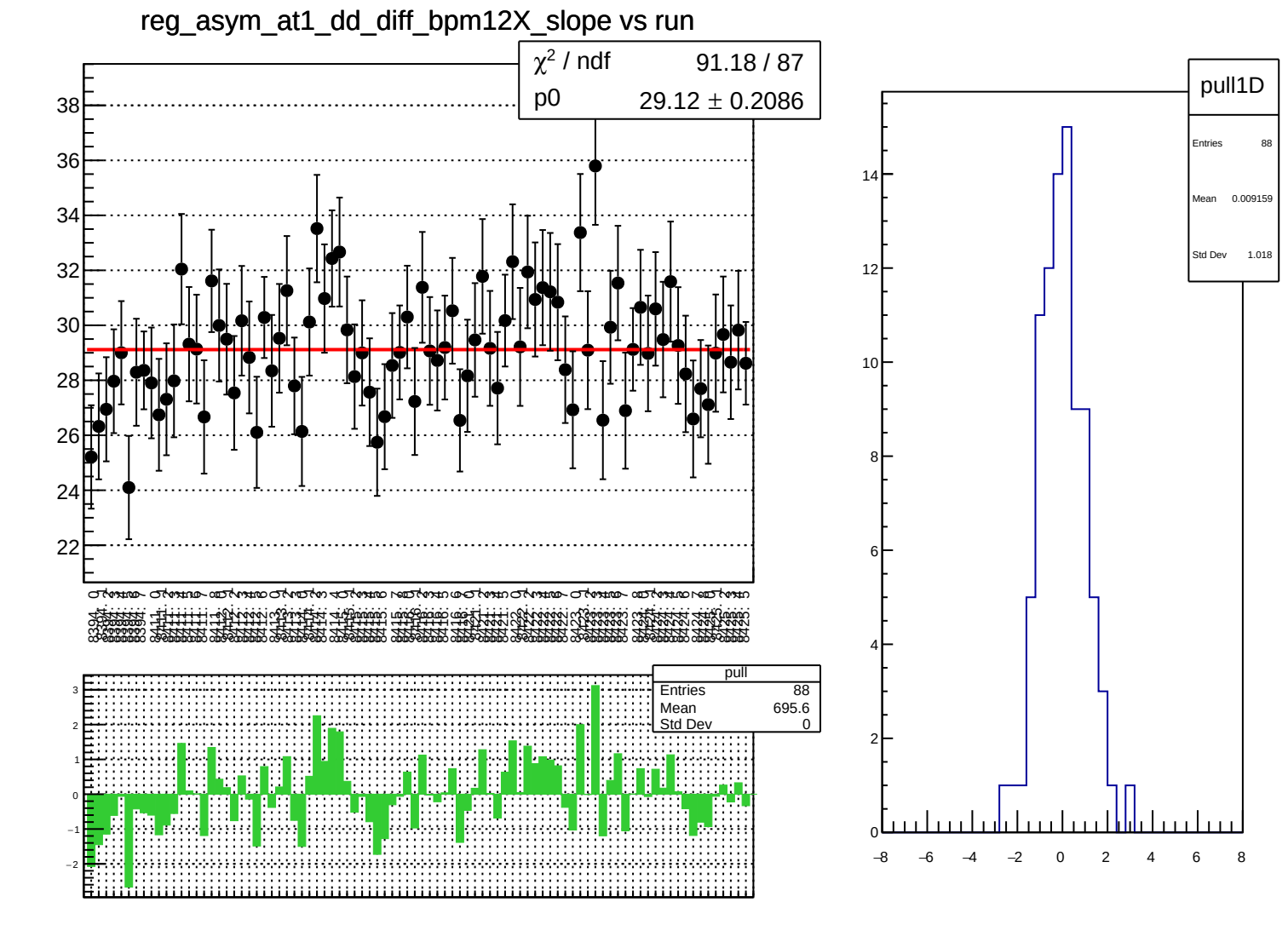

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 85.41 / 87
p0 −4.663 ± 3.308
100
50
0
−50
−100
pull
Entries 88
Mean −2.512
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01052
Std Dev 0.9851
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

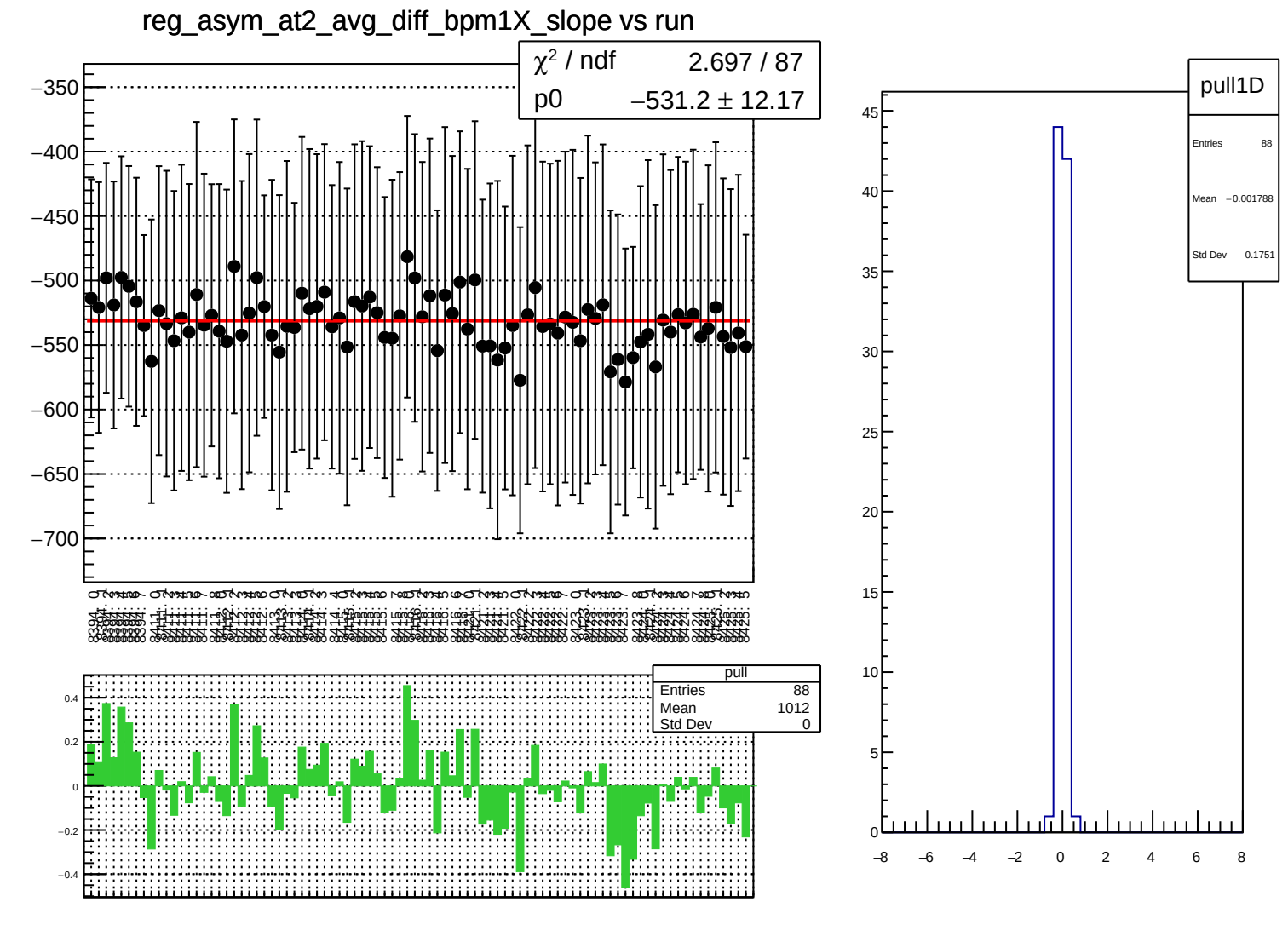

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 75.25 / 87
p0 −11.76 ± 1.972
pull
Entries 88
Mean 1946
Std Dev 0

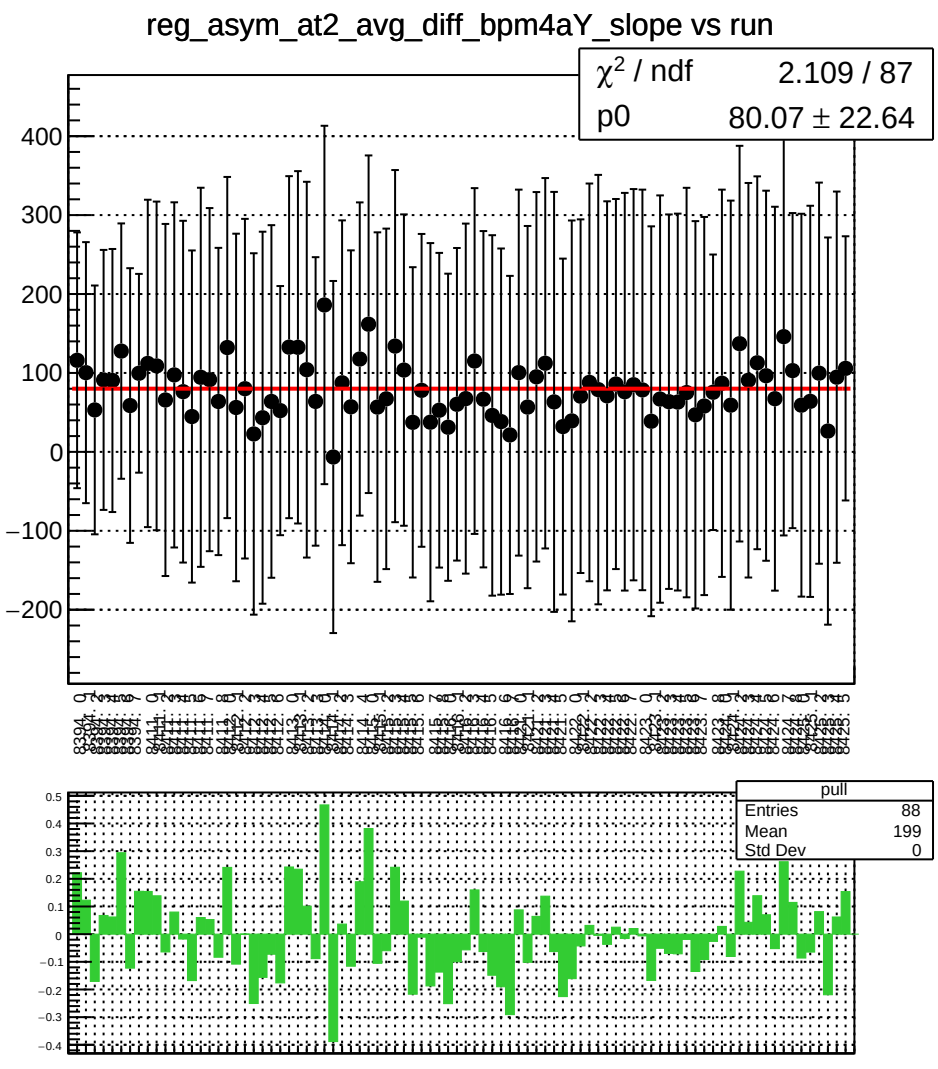

pull1D
Entries 88
Mean −0.001382
Std Dev 0.9247

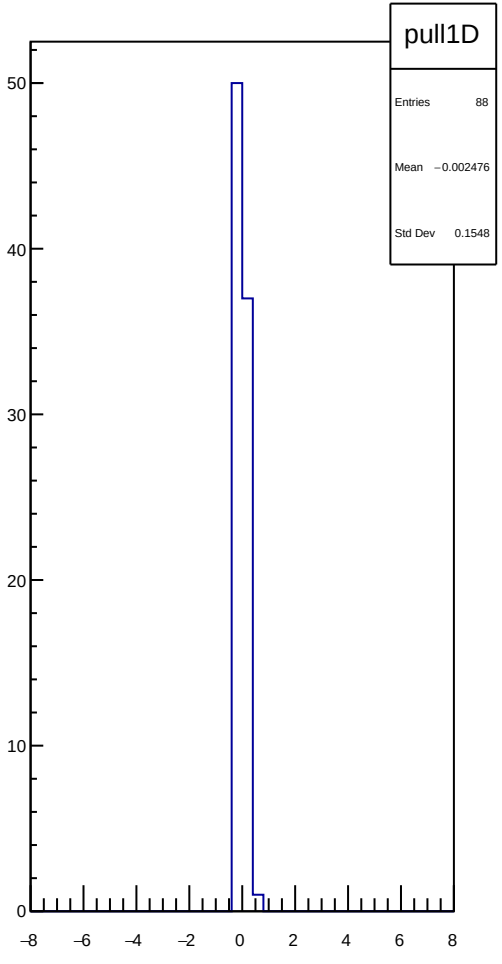

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 83.2 / 87
p0 −6.843 ± 3.472
pull
Entries 88
Mean −74.64
Std Dev 0

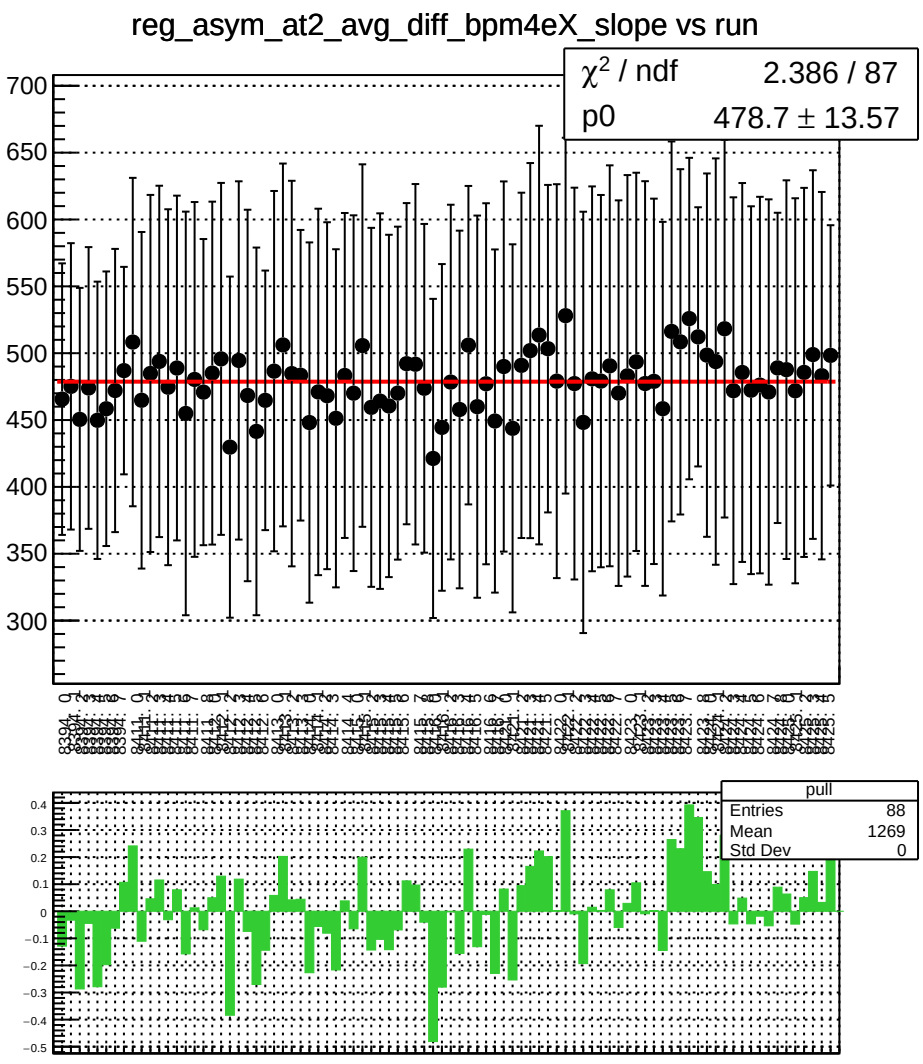

pull1D
Entries 88
Mean 0.008728
Std Dev 0.9723

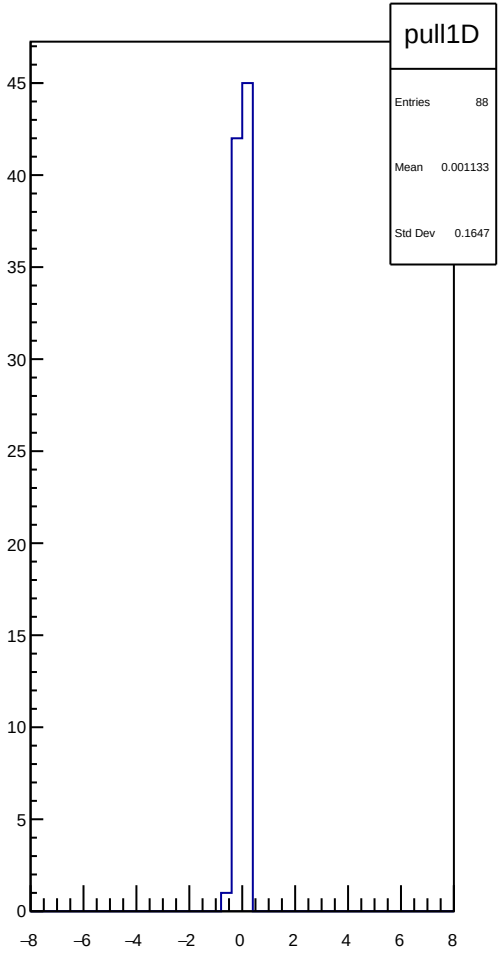

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 91.18 / 87
p0 29.12 ± 0.2086
pull
Entries 88
Mean 695.6
Std Dev 0
pull1D
Entries 88
Mean 0.009159
Std Dev 1.018

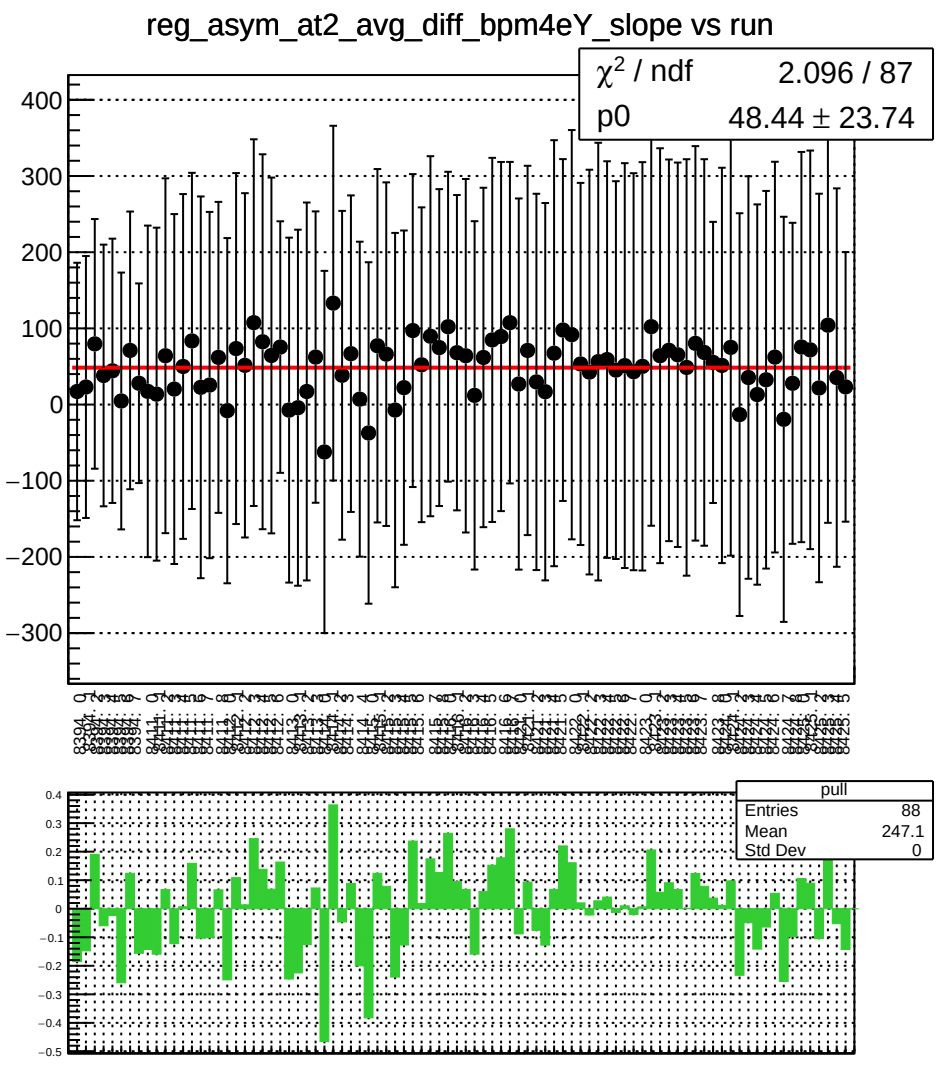

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 2.697 / 87
p0 −531.2 ± 12.17
pull
Entries 88
Mean 1012
Std Dev 0
pull1D
Entries 88
Mean −0.001788
Std Dev 0.1751

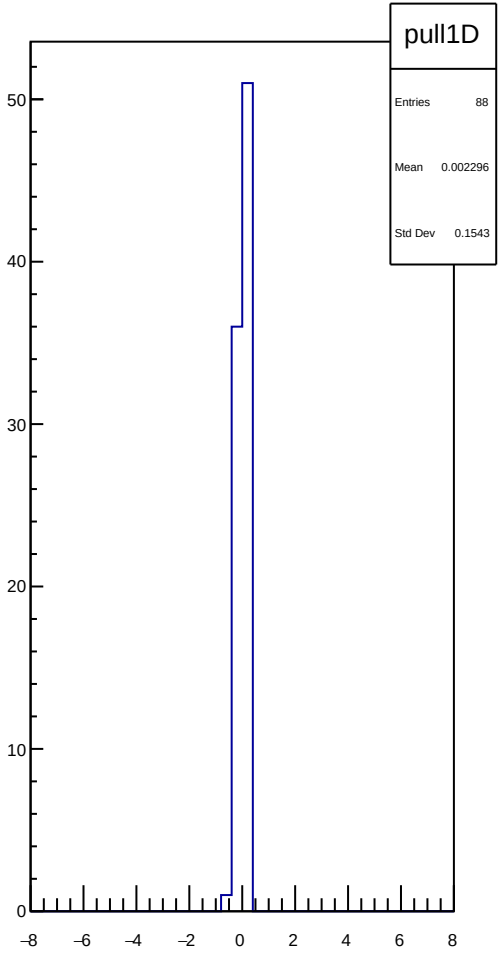

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.109 / 87
p0 80.07 ± 22.64
400
300
200
100
0
−100
−200
pull
Entries 88
Mean 199
Std Dev 0
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

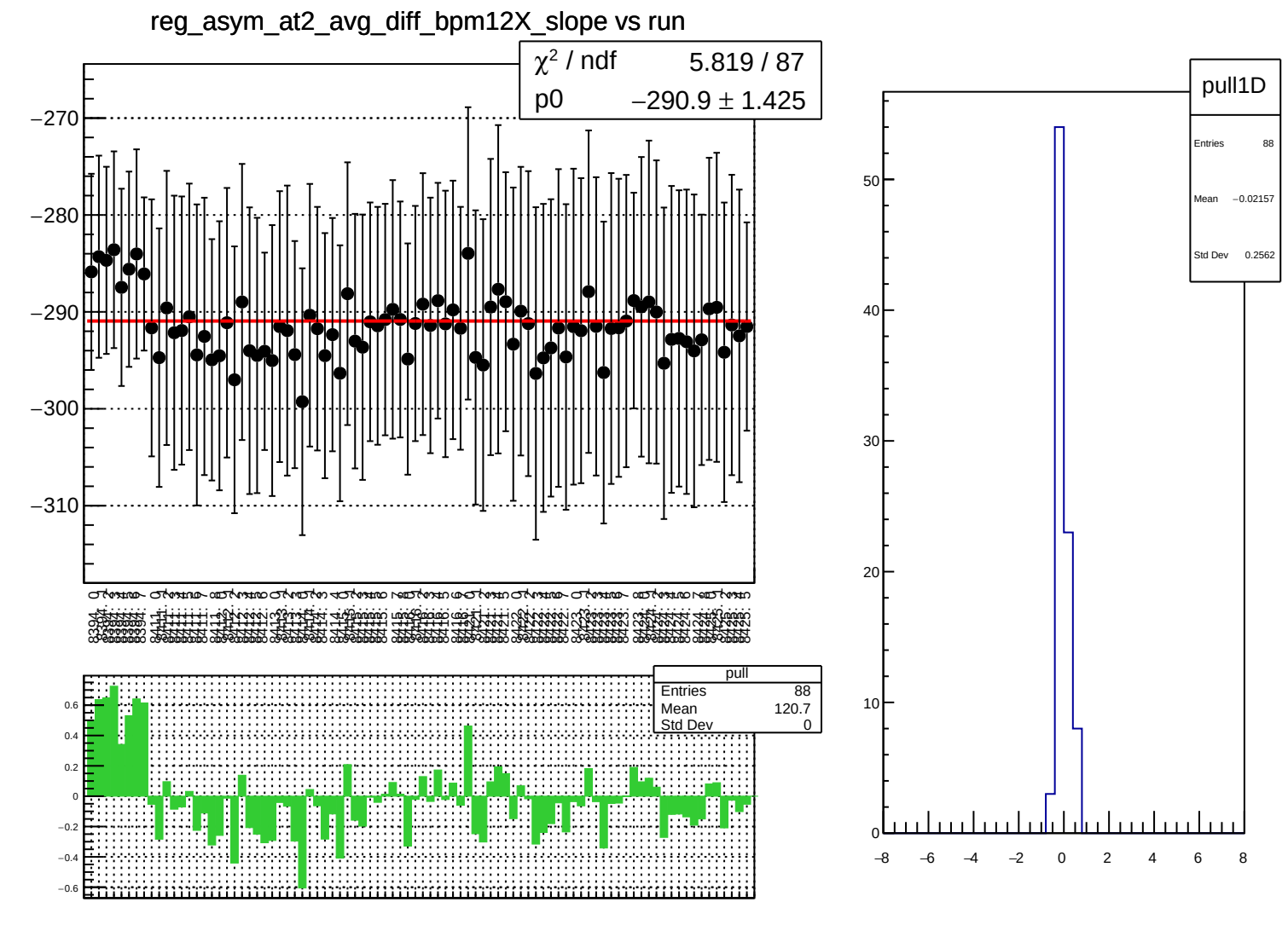

pull1D
Entries 88
Mean −0.002476
Std Dev 0.1548
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

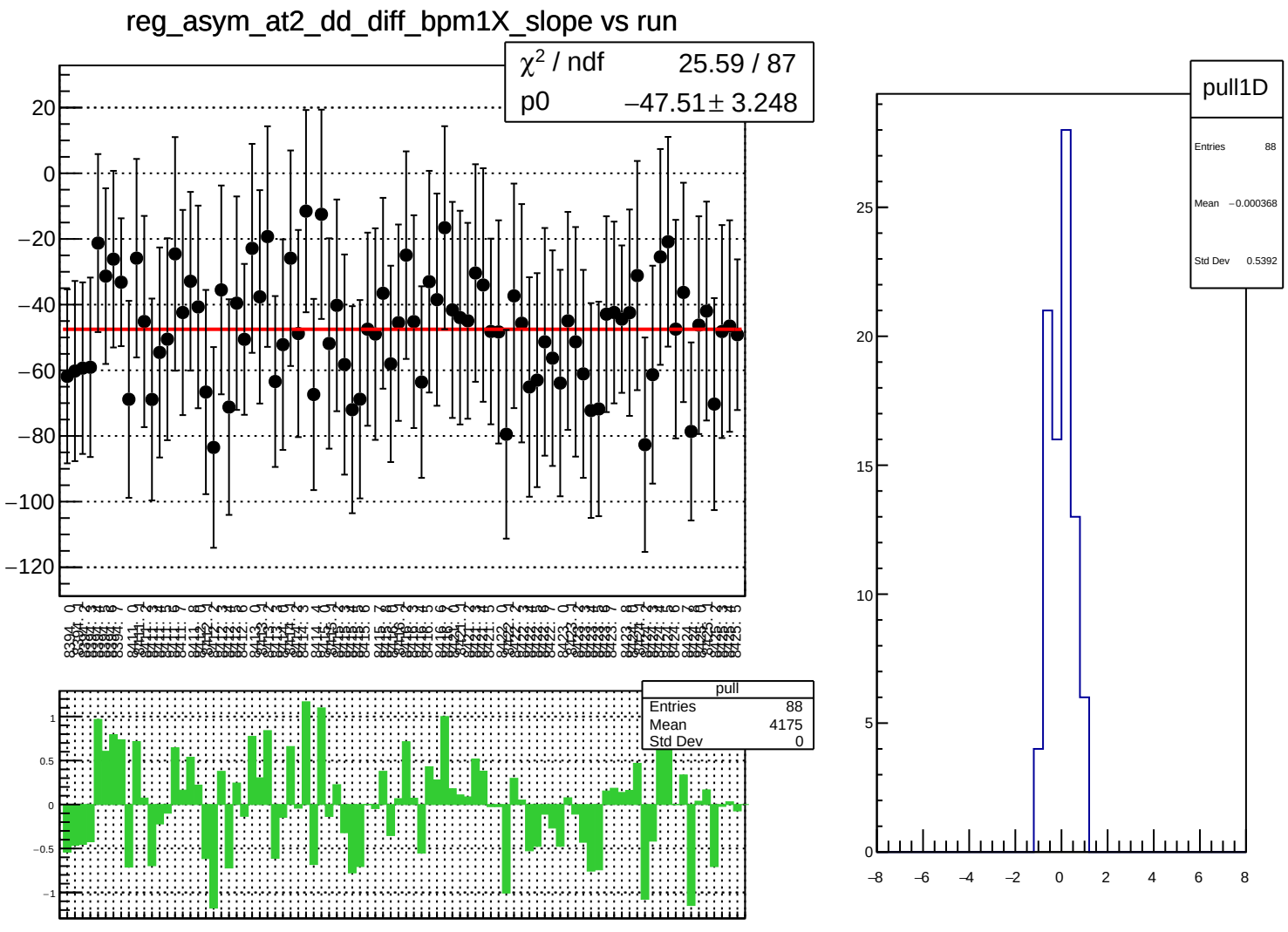

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.386 / 87
p0 478.7 ± 13.57
700
650
600
550
500
450
400
350
300
pull
Entries 88
Mean 1269
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

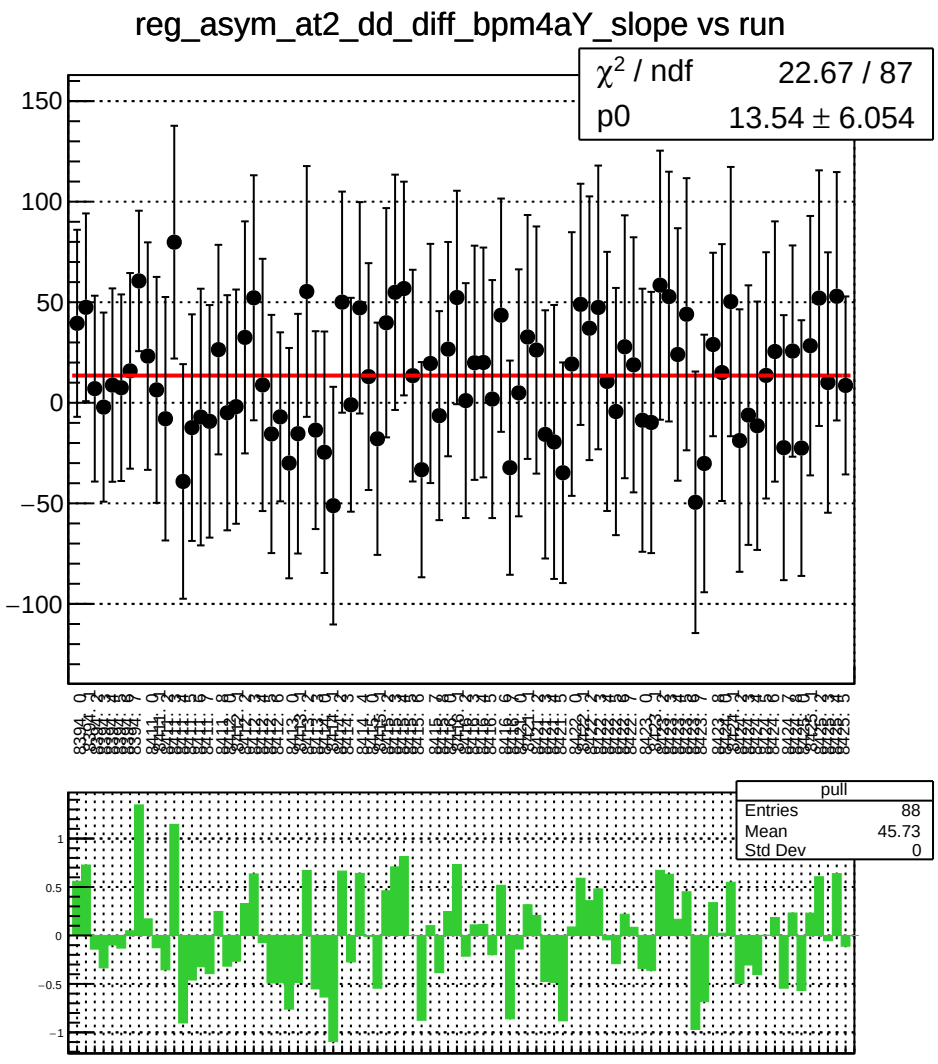

pull1D
Entries 88
Mean 0.001133
Std Dev 0.1647
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

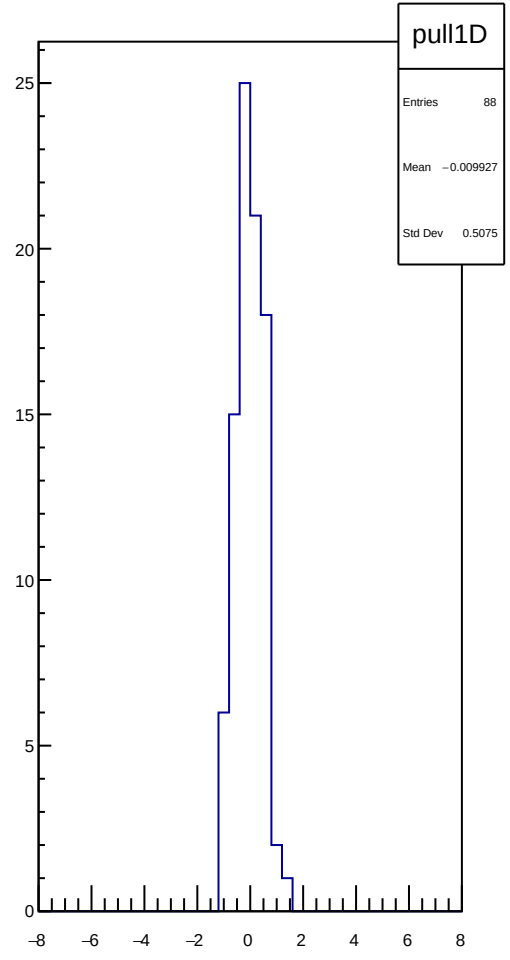

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.096 / 87
p0 48.44 ± 23.74
pull
Entries 88
Mean 247.1
Std Dev 0

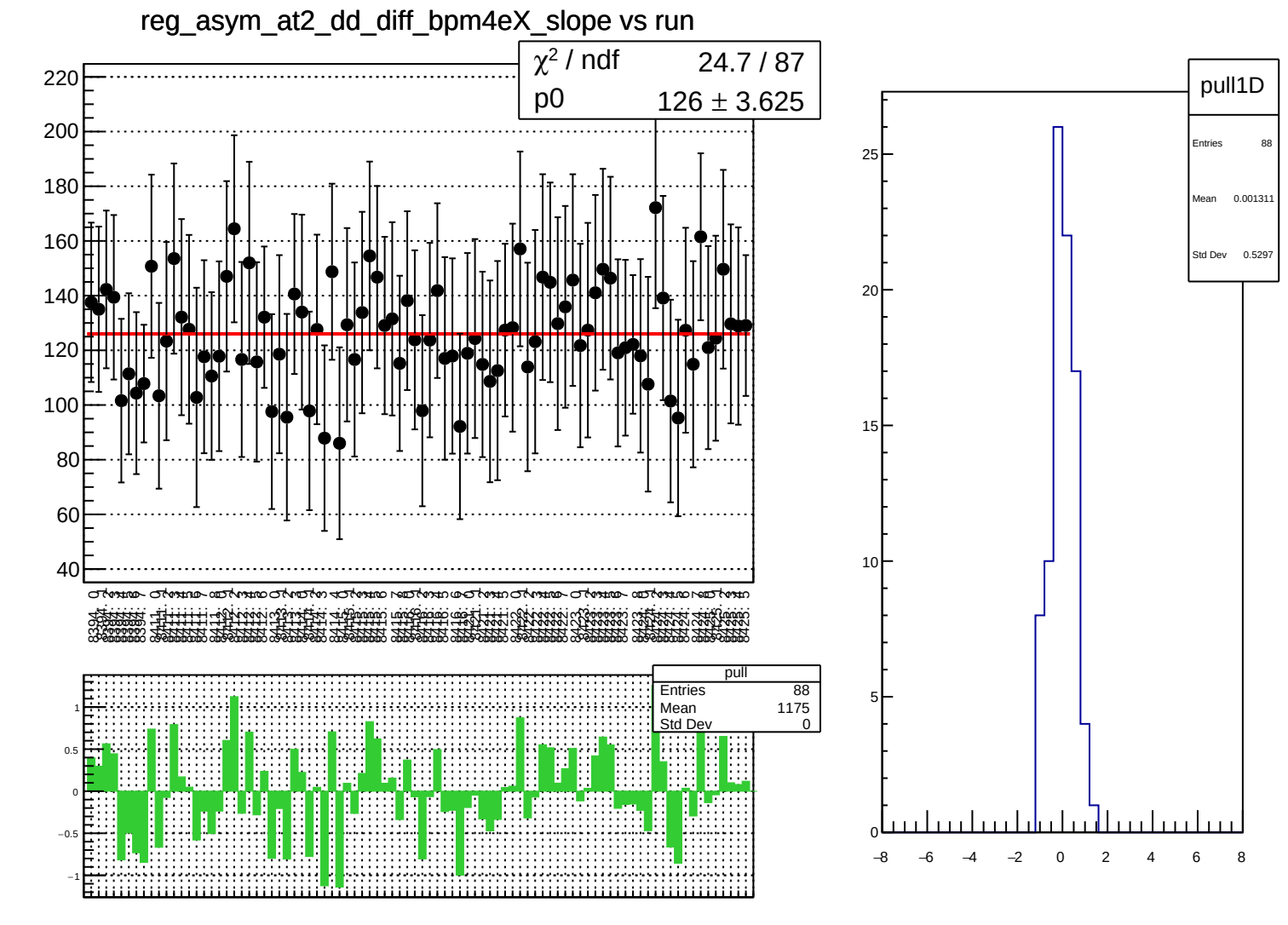

pull1D
Entries 88
Mean 0.002296
Std Dev 0.1543

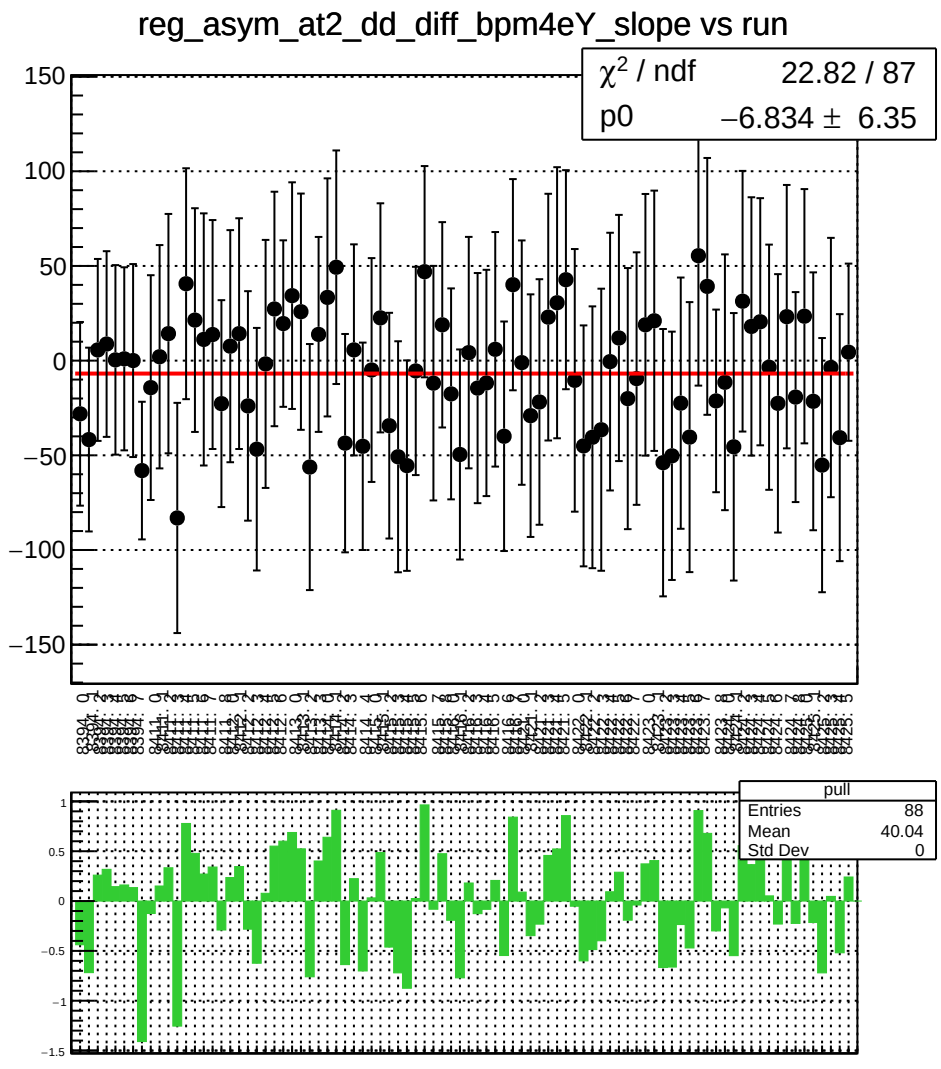

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 5.819 / 87
p0 −290.9 ± 1.425
−270
−280
−290
−300
−310
pull
Entries 88
Mean 120.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean −0.02157
Std Dev 0.2562
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

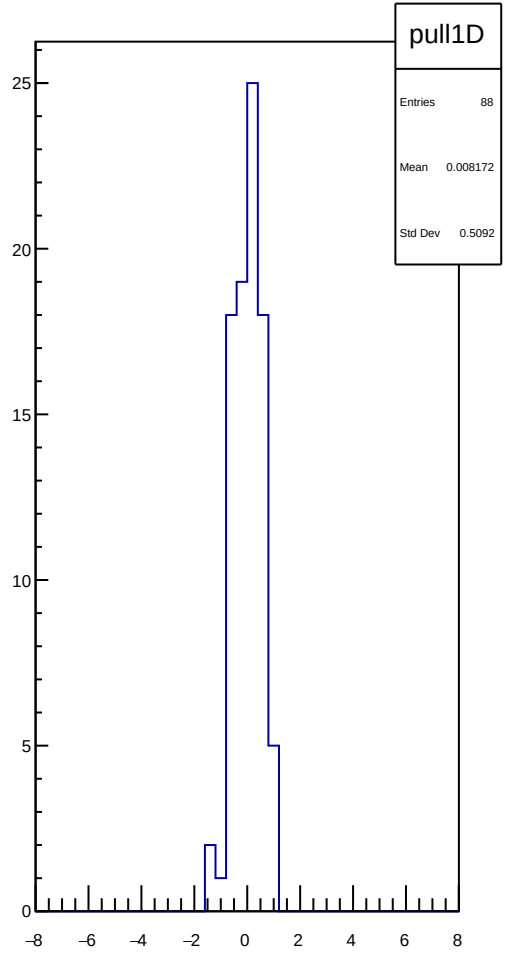

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 25.59 / 87
p0 −47.51 ± 3.248
pull
Entries 88
Mean 4175
Std Dev 0
pull1D
Entries 88
Mean −0.000368
Std Dev 0.5392

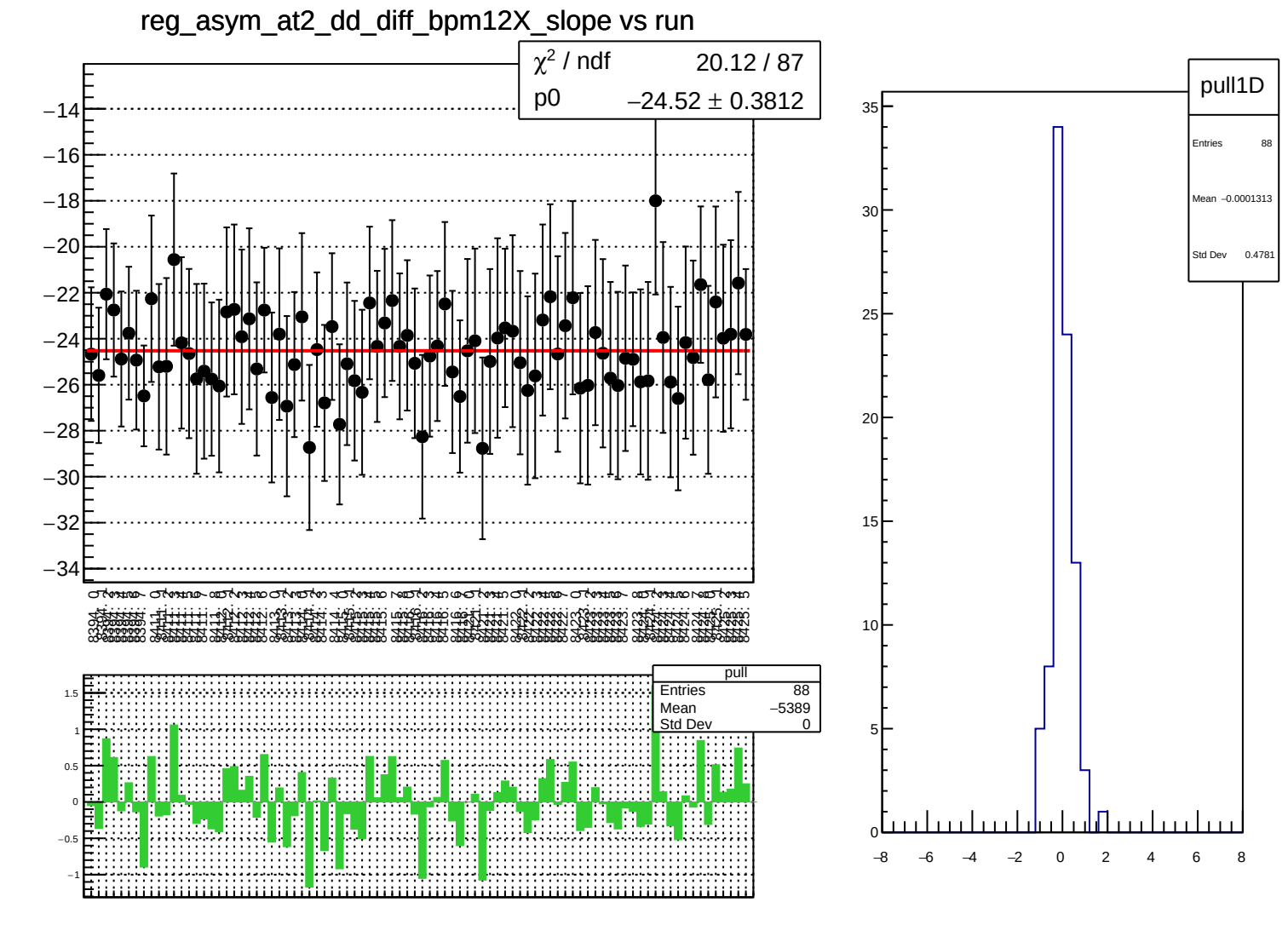

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 22.67 / 87
p0 13.54 ± 6.054
150
100
50
0
−50
−100
pull
Entries 88
Mean 45.73
Std Dev 0
1
0.5
0
−0.5
−1

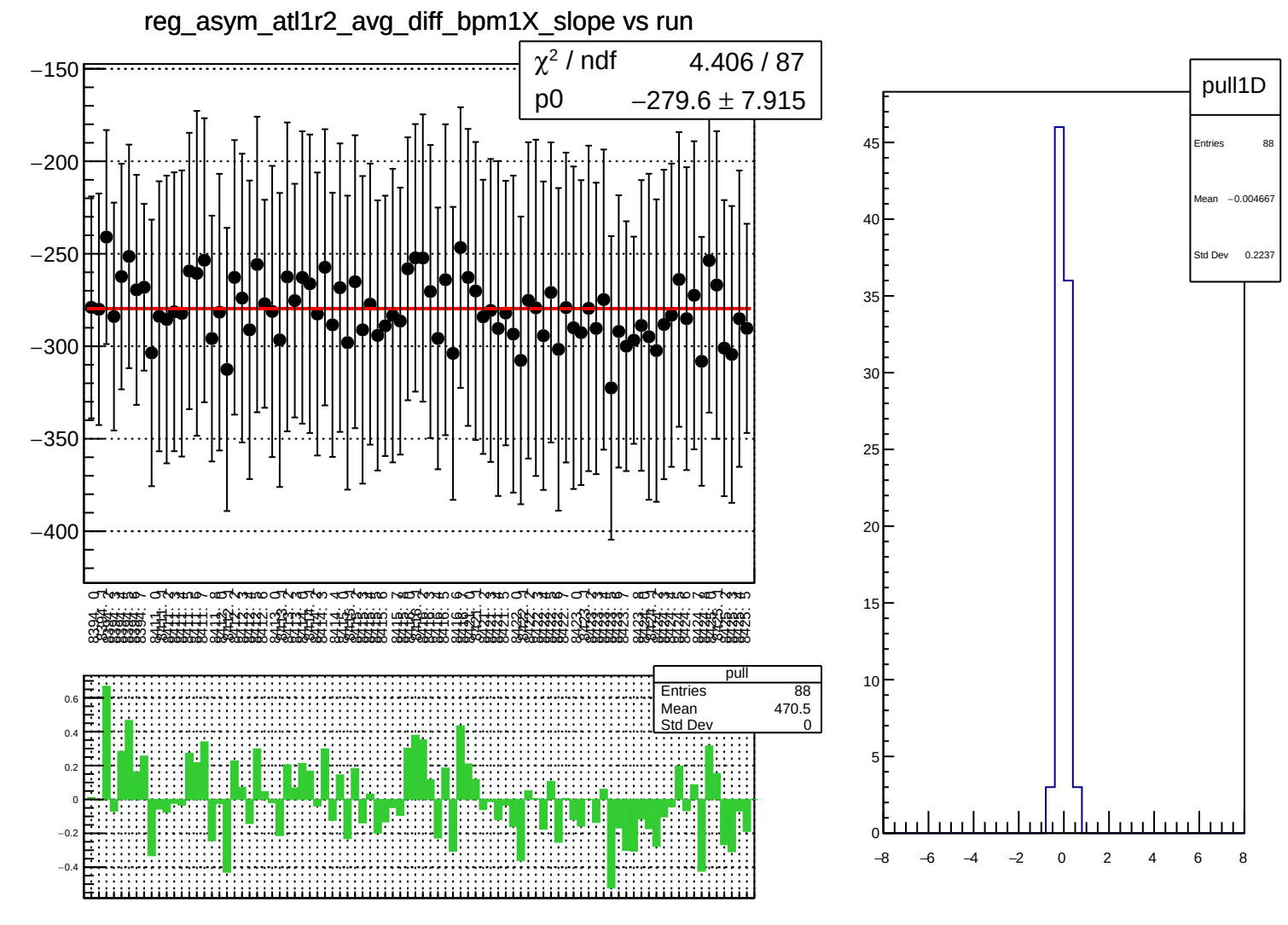

pull1D
Entries 88
Mean −0.009927
Std Dev 0.5075
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

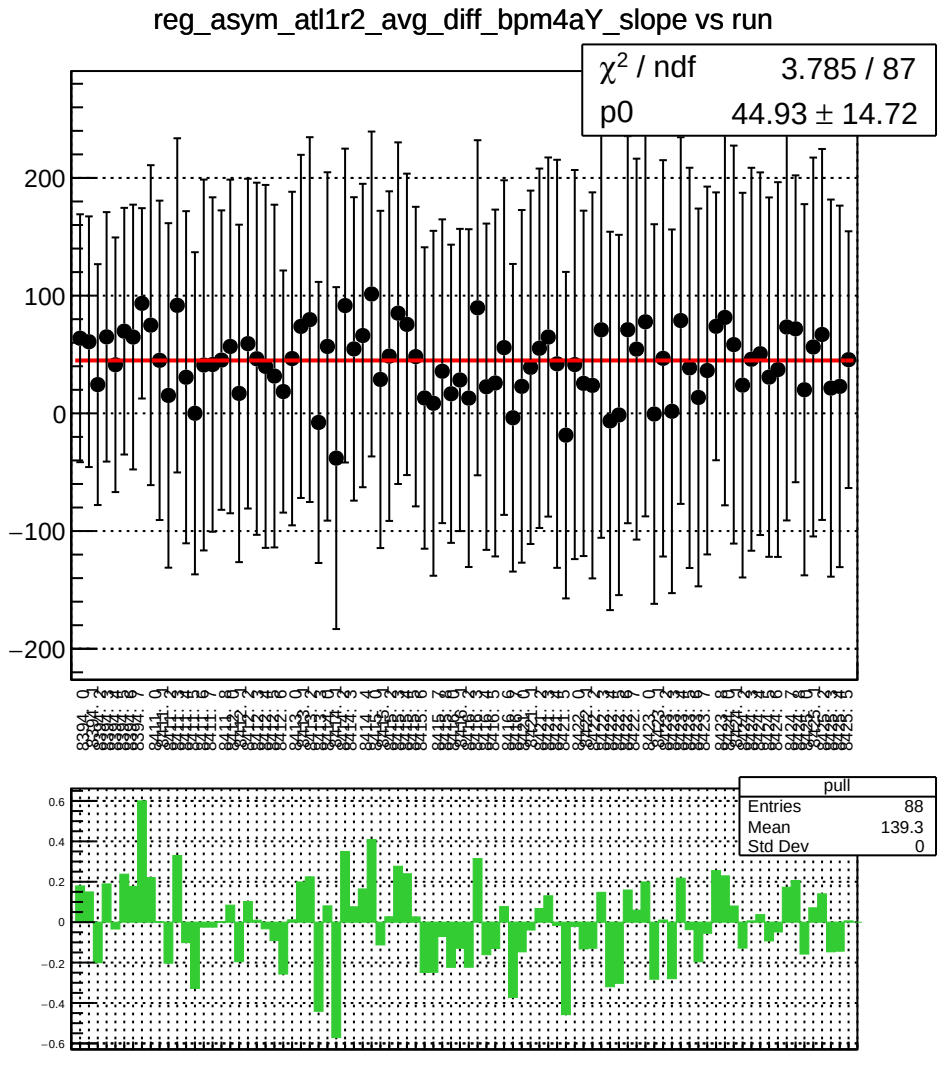

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 24.7 / 87
p0 126 ± 3.625
pull
Entries 88
Mean 1175
Std Dev 0
pull1D
Entries 88
Mean 0.001311
Std Dev 0.5297

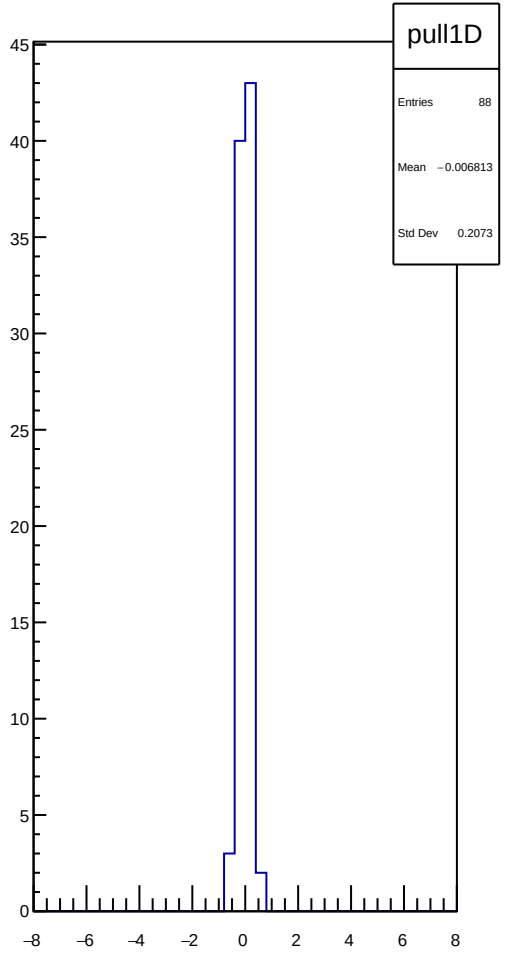

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.82 / 87
p0 −6.834 ± 6.35
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 40.04
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

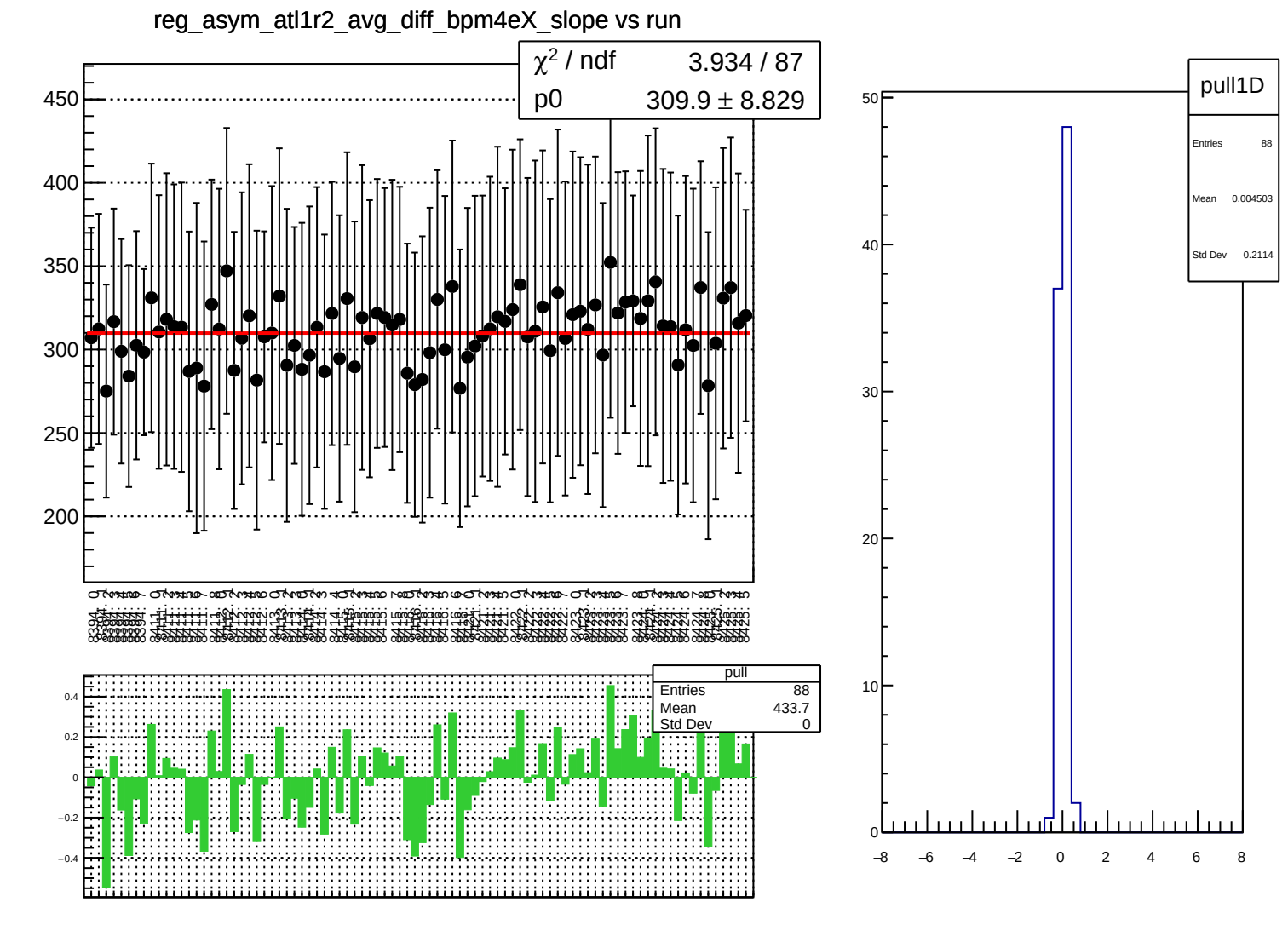

pull1D
Entries 88
Mean 0.008172
Std Dev 0.5092
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

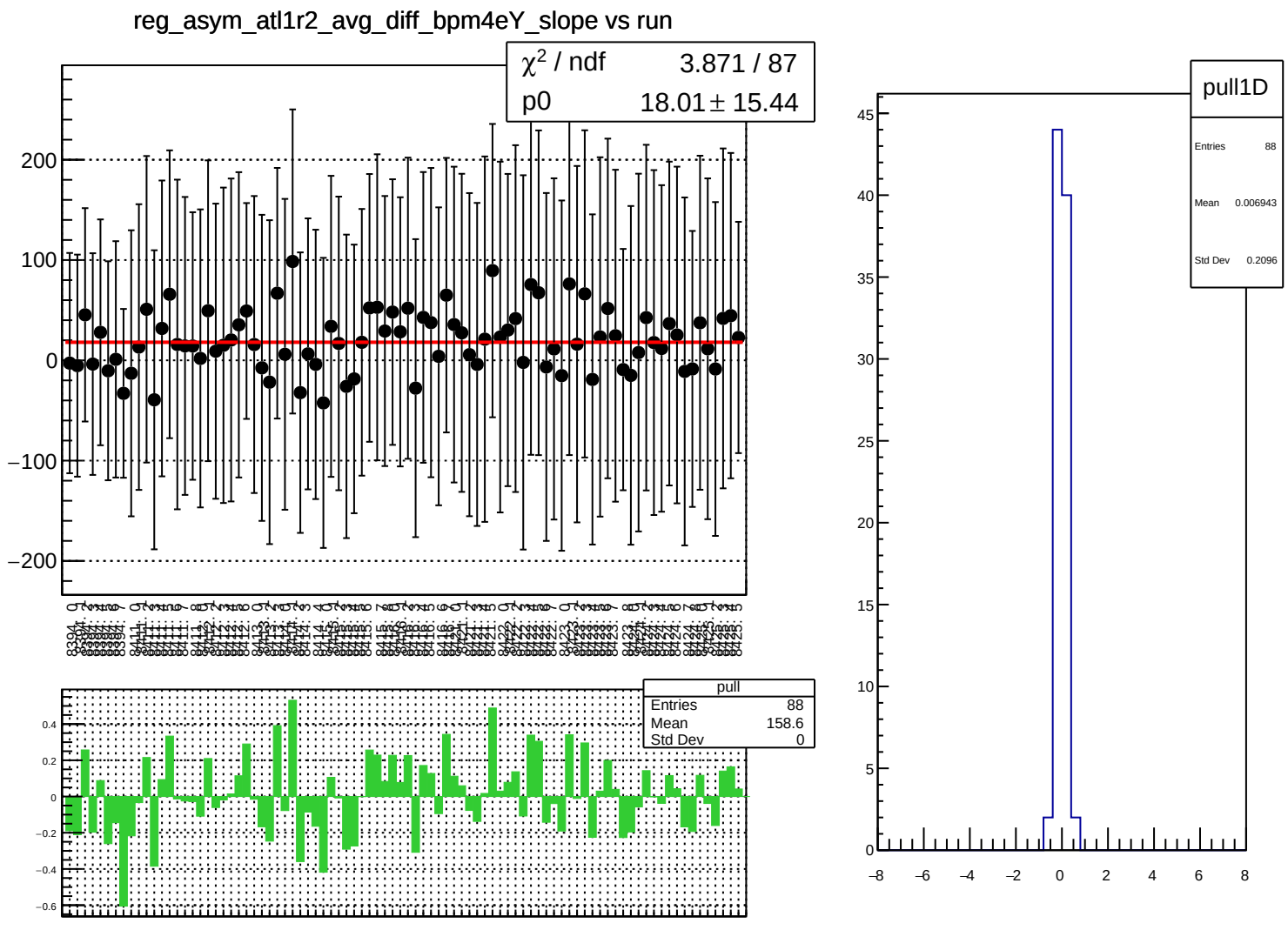

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 20.12 / 87
p0 −24.52 ± 0.3812
pull
Entries 88
Mean −5389
Std Dev 0
pull1D
Entries 88
Mean −0.0001313
Std Dev 0.4781

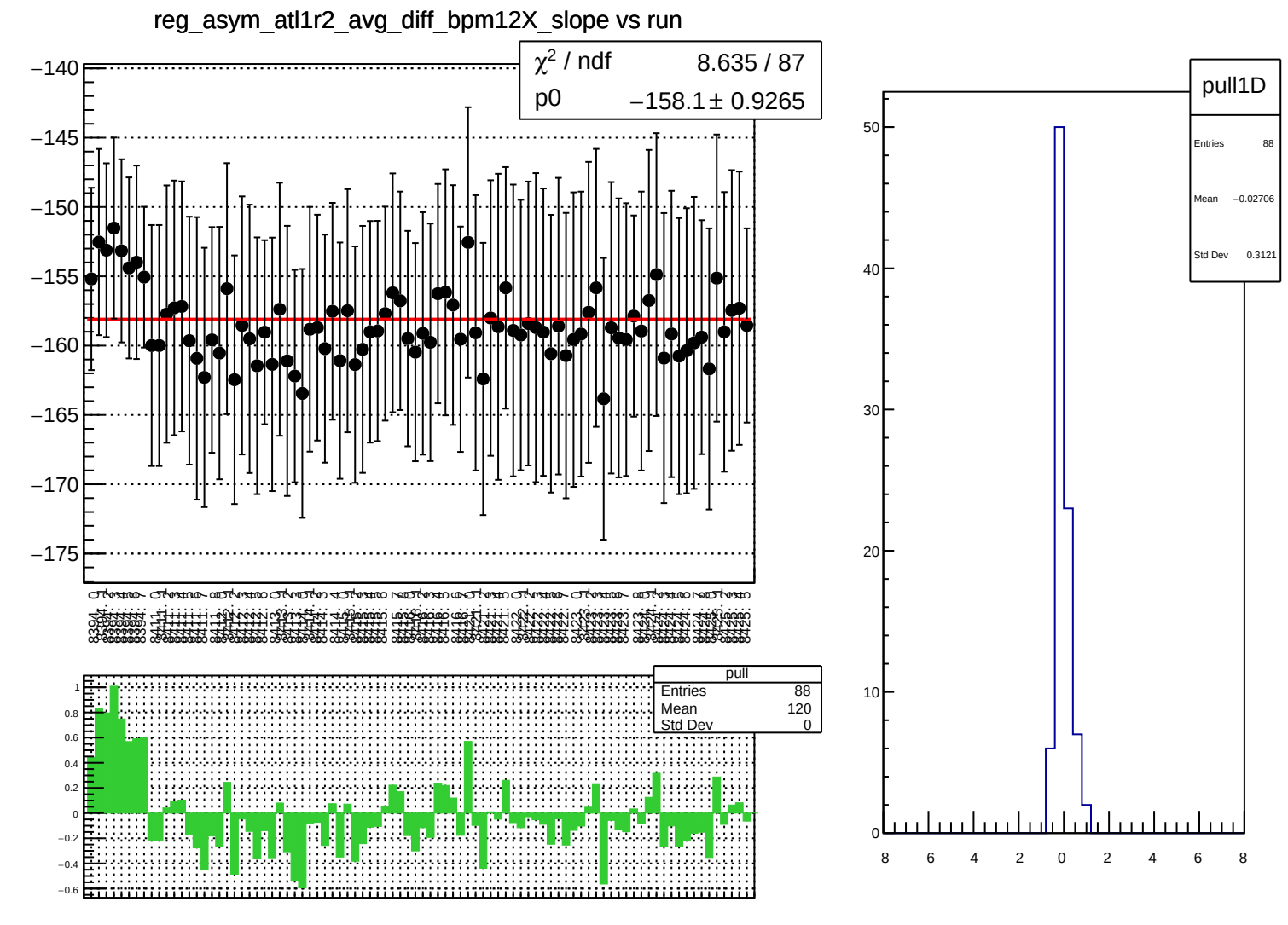

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 4.406 / 87
p0 −279.6 ± 7.915
−150
−200
−250
−300
−350
−400
pull
Entries 88
Mean 470.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 88
Mean −0.004667
Std Dev 0.2237
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

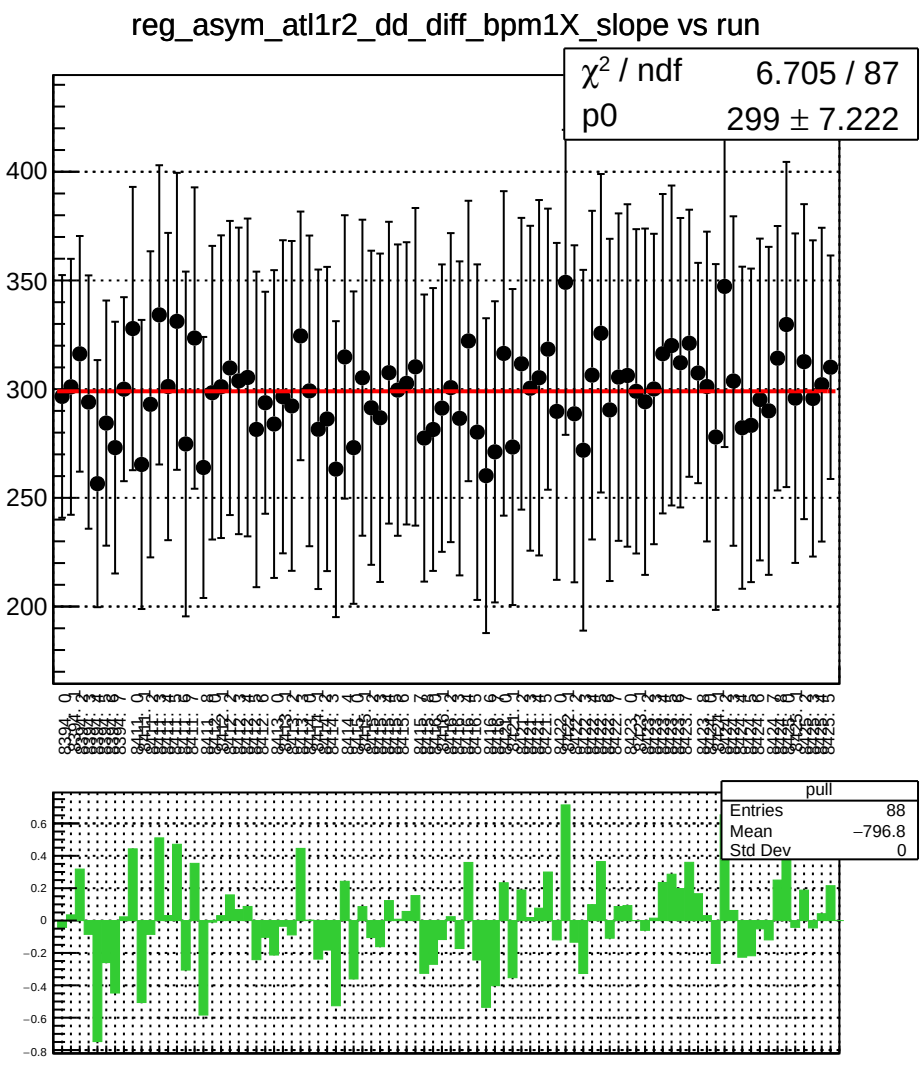

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.785 / 87
p0 44.93 ± 14.72
200
100
0
−100
−200
pull
Entries 88
Mean 139.3
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

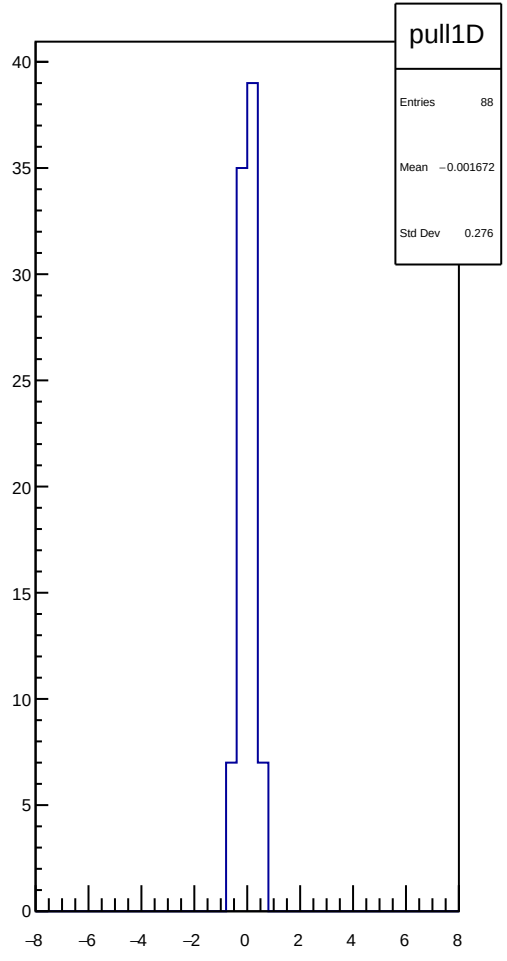

pull1D
Entries 88
Mean −0.006813
Std Dev 0.2073
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

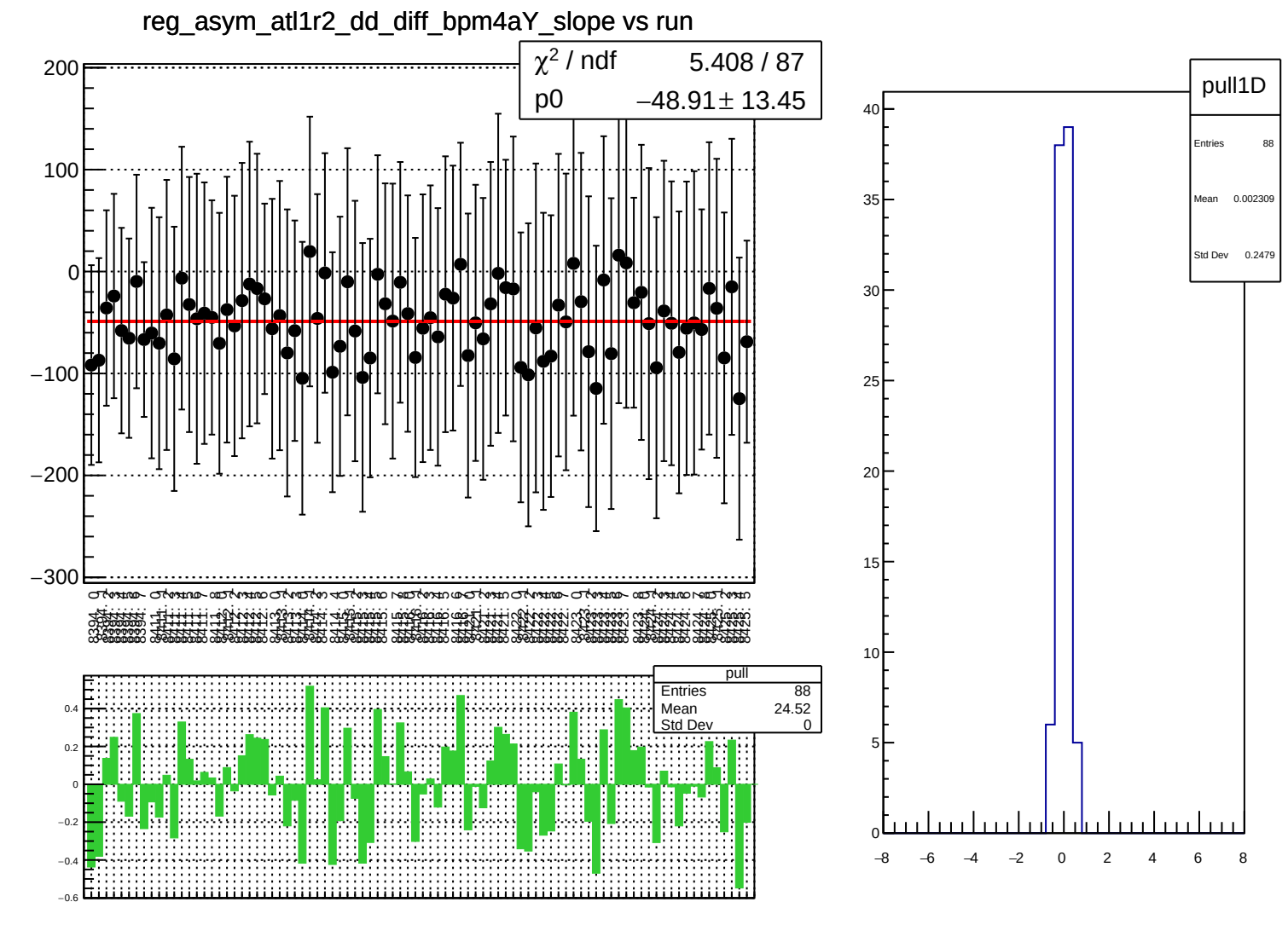

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 3.934 / 87
p0 309.9 ± 8.829
pull
Entries 88
Mean 433.7
Std Dev 0
pull1D
Entries 88
Mean 0.004503
Std Dev 0.2114

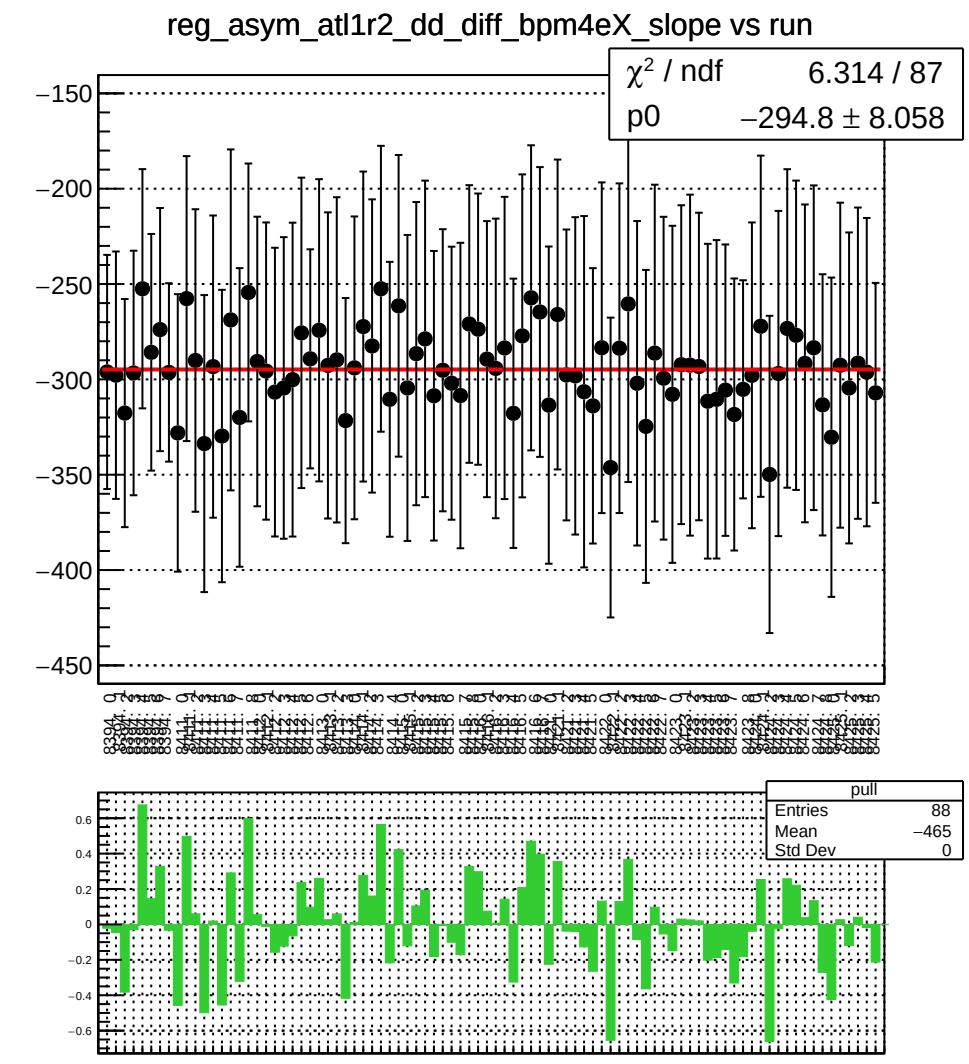

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.871 / 87
p0 18.01 ± 15.44
200
100
0
−100
−200
pull
Entries 88
Mean 158.6
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean 0.006943
Std Dev 0.2096
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

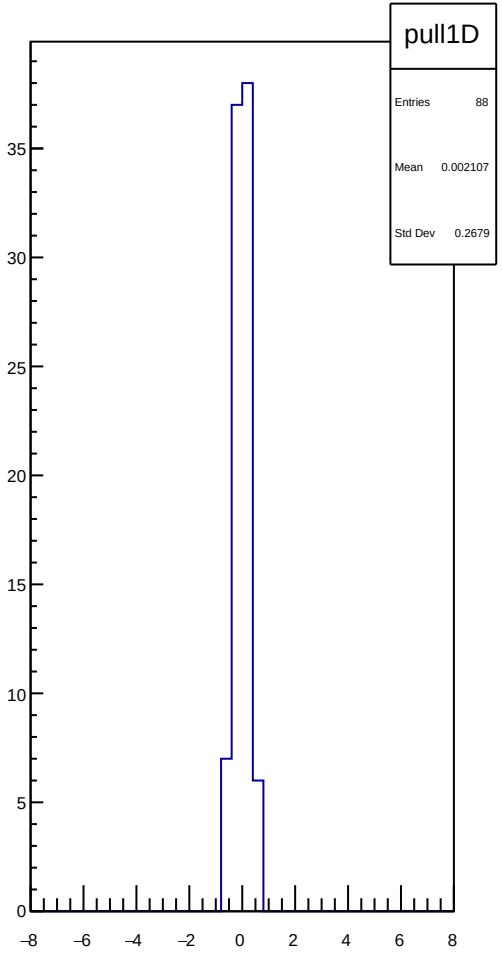

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 8.635 / 87
p0 −158.1 ± 0.9265
pull
Entries 88
Mean 120
Std Dev 0
pull1D
Entries 88
Mean −0.02706
Std Dev 0.3121

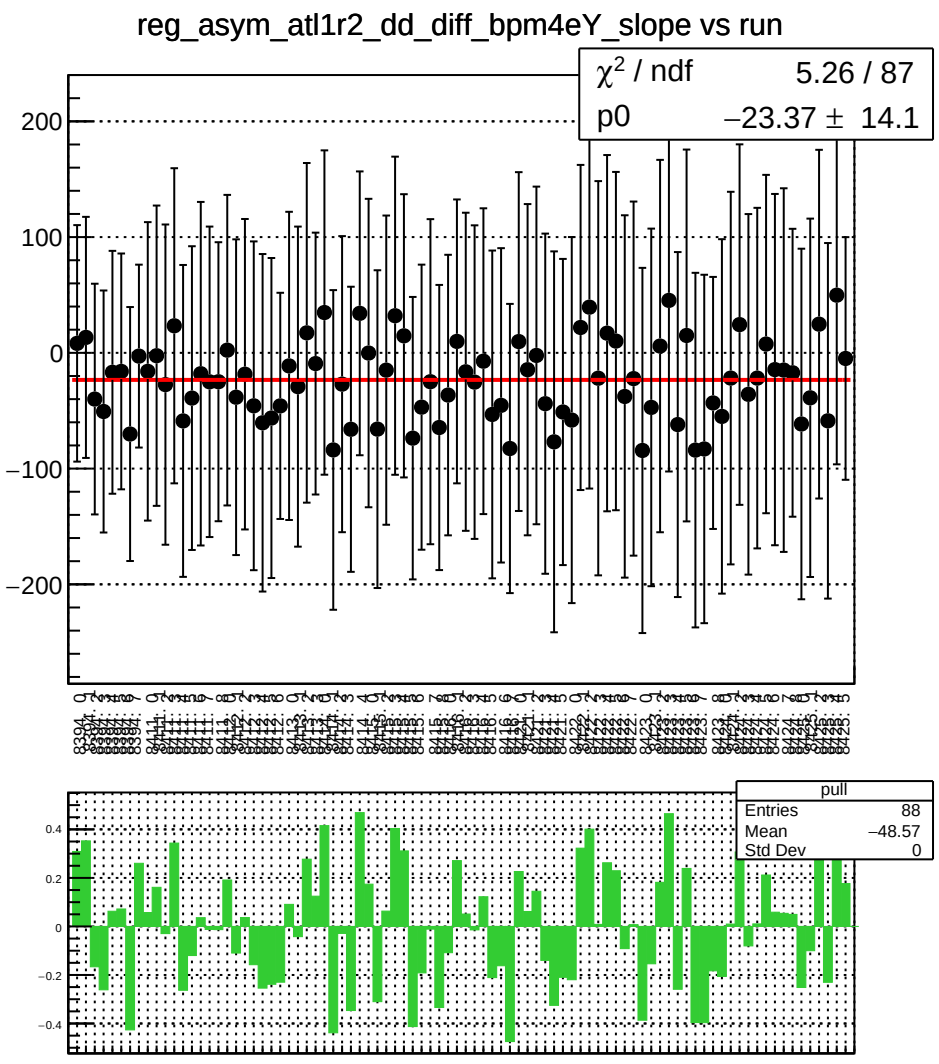

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 6.705 / 87
p0 299 ± 7.222
400
350
300
250
200
pull
Entries 88
Mean −796.8
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

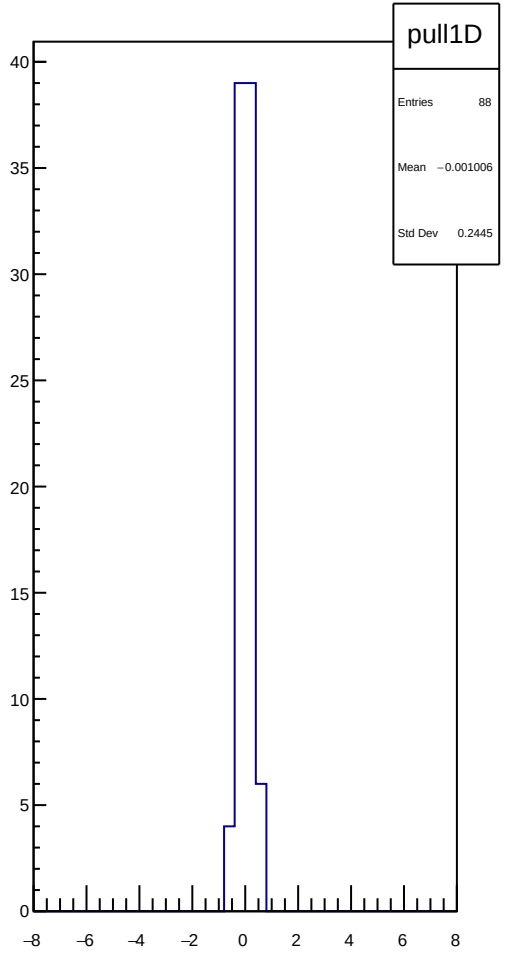

pull1D
Entries 88
Mean −0.001672
Std Dev 0.276
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

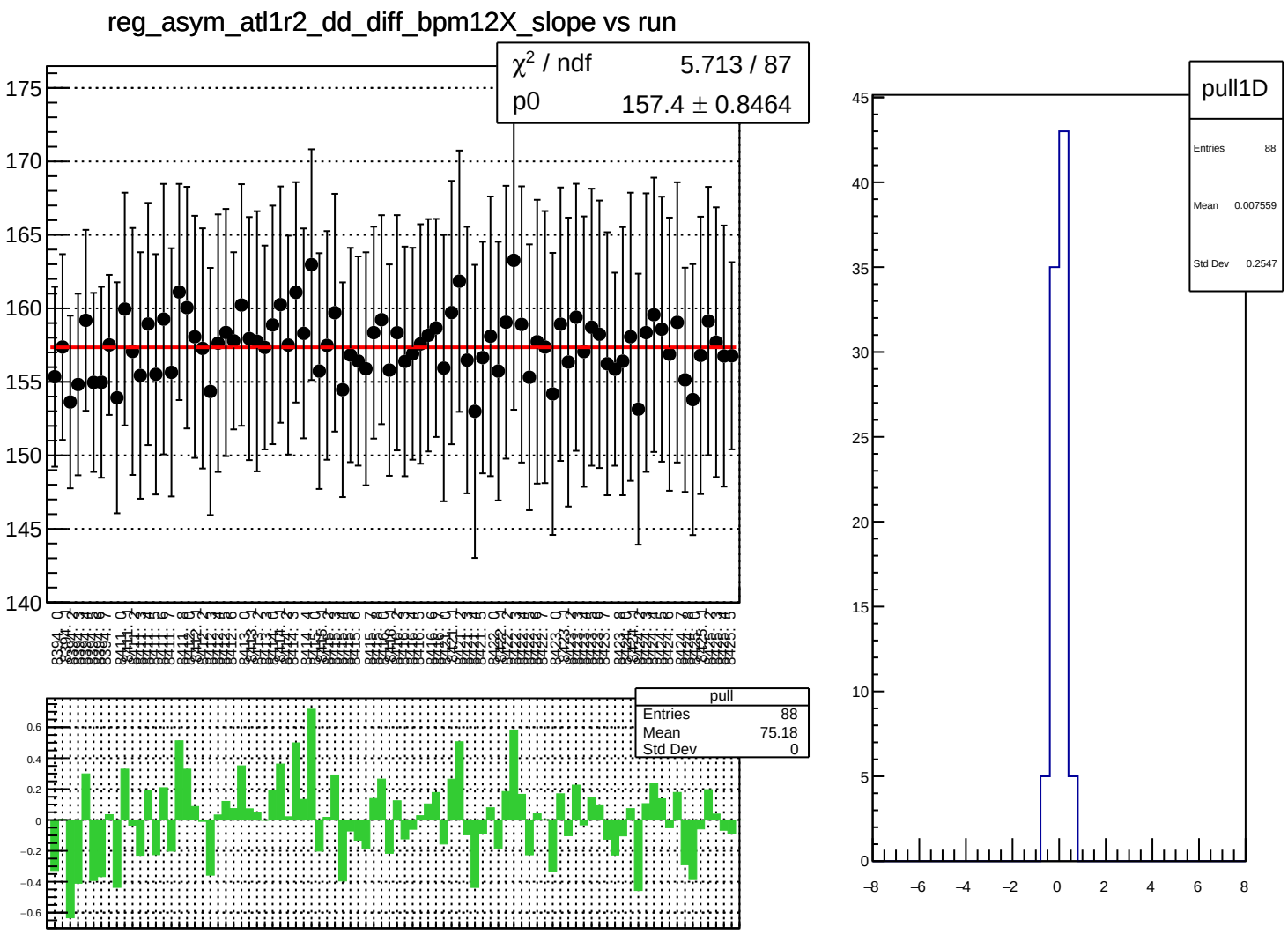

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.408 / 87
p0 −48.91 ± 13.45
pull
Entries 88
Mean 24.52
Std Dev 0
pull1D
Entries 88
Mean 0.002309
Std Dev 0.2479

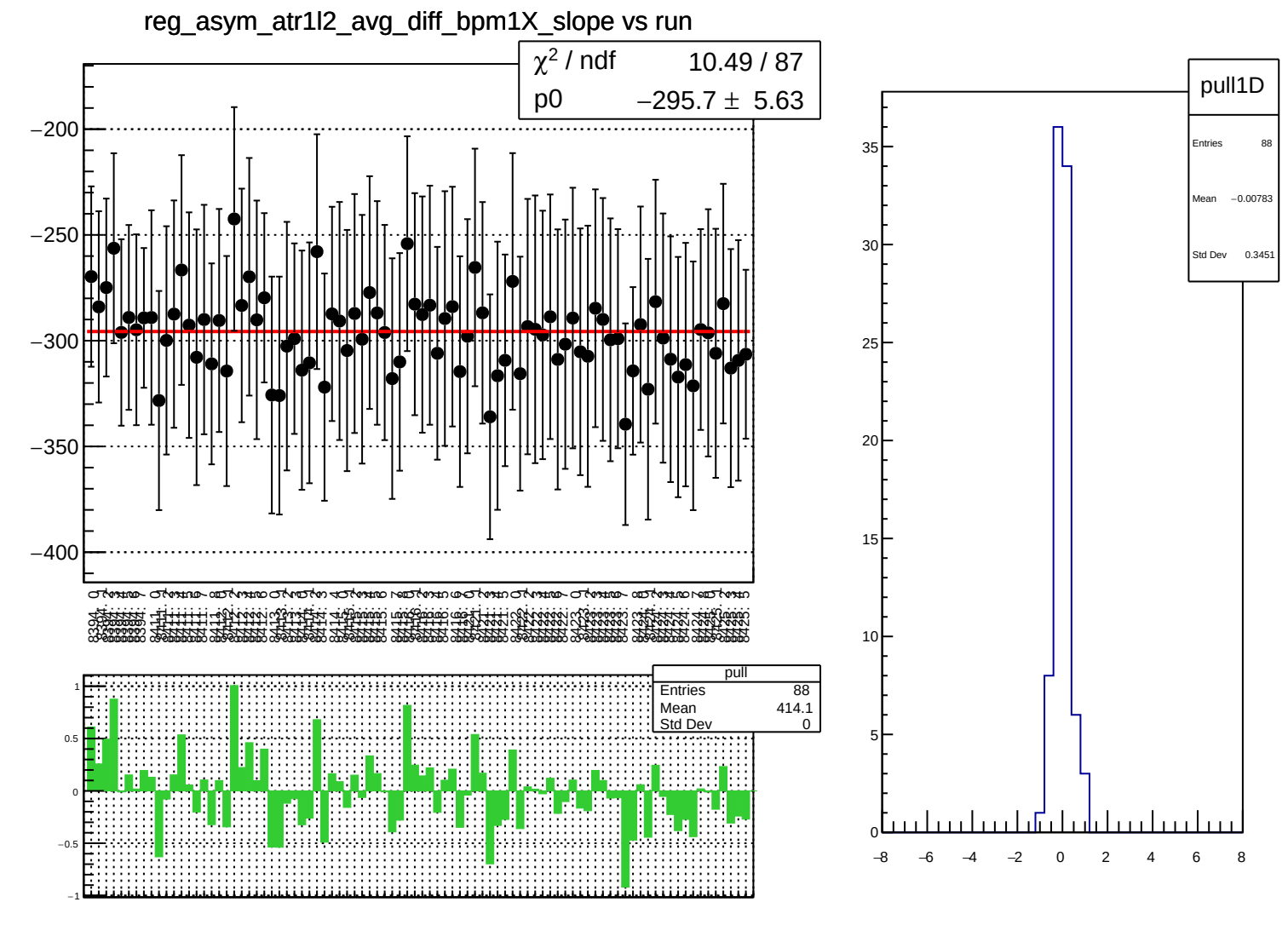

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.314 / 87
p0 −294.8 ± 8.058
pull
Entries 88
Mean −465
Std Dev 0

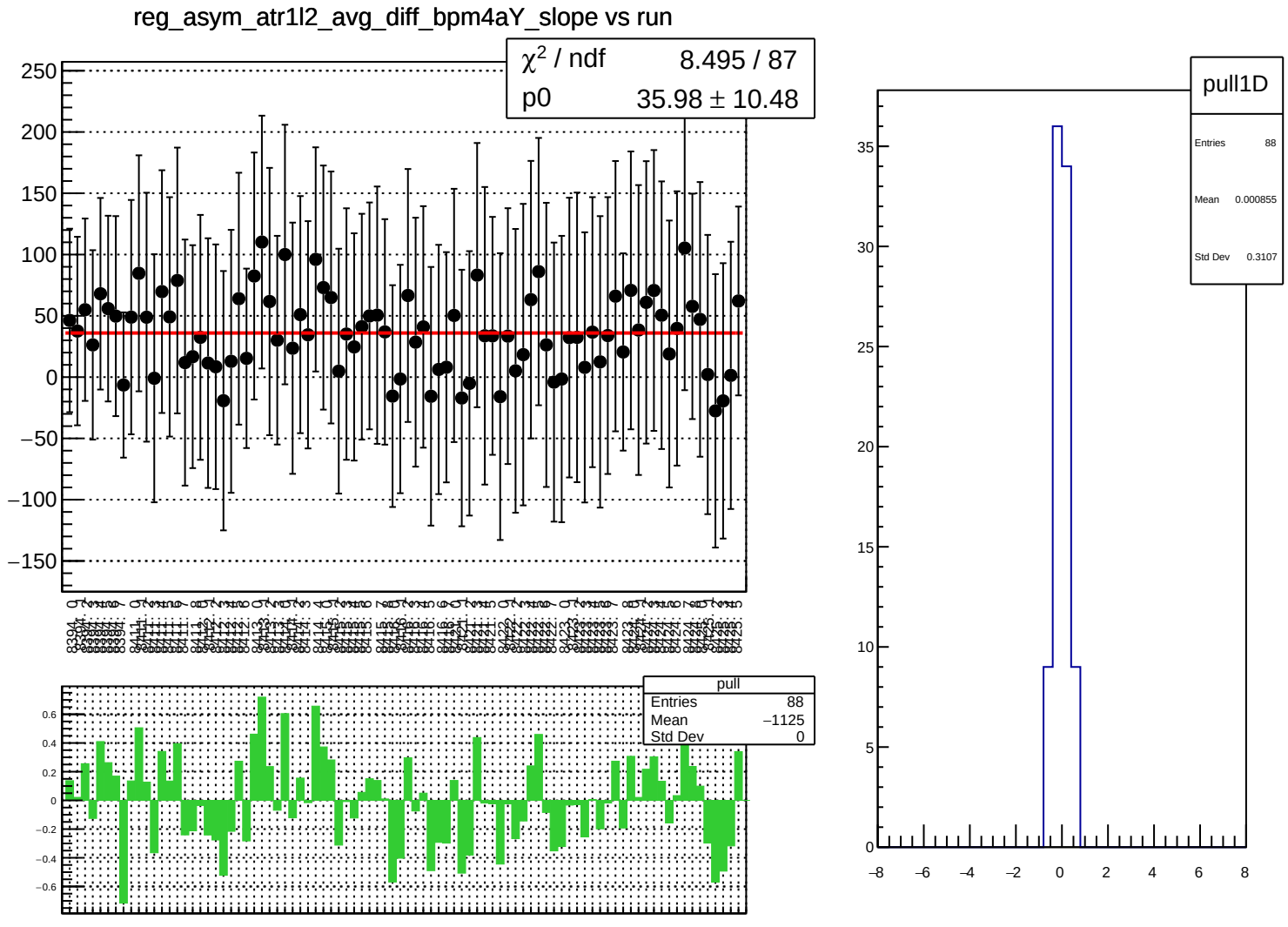

pull1D
Entries 88
Mean 0.002107
Std Dev 0.2679

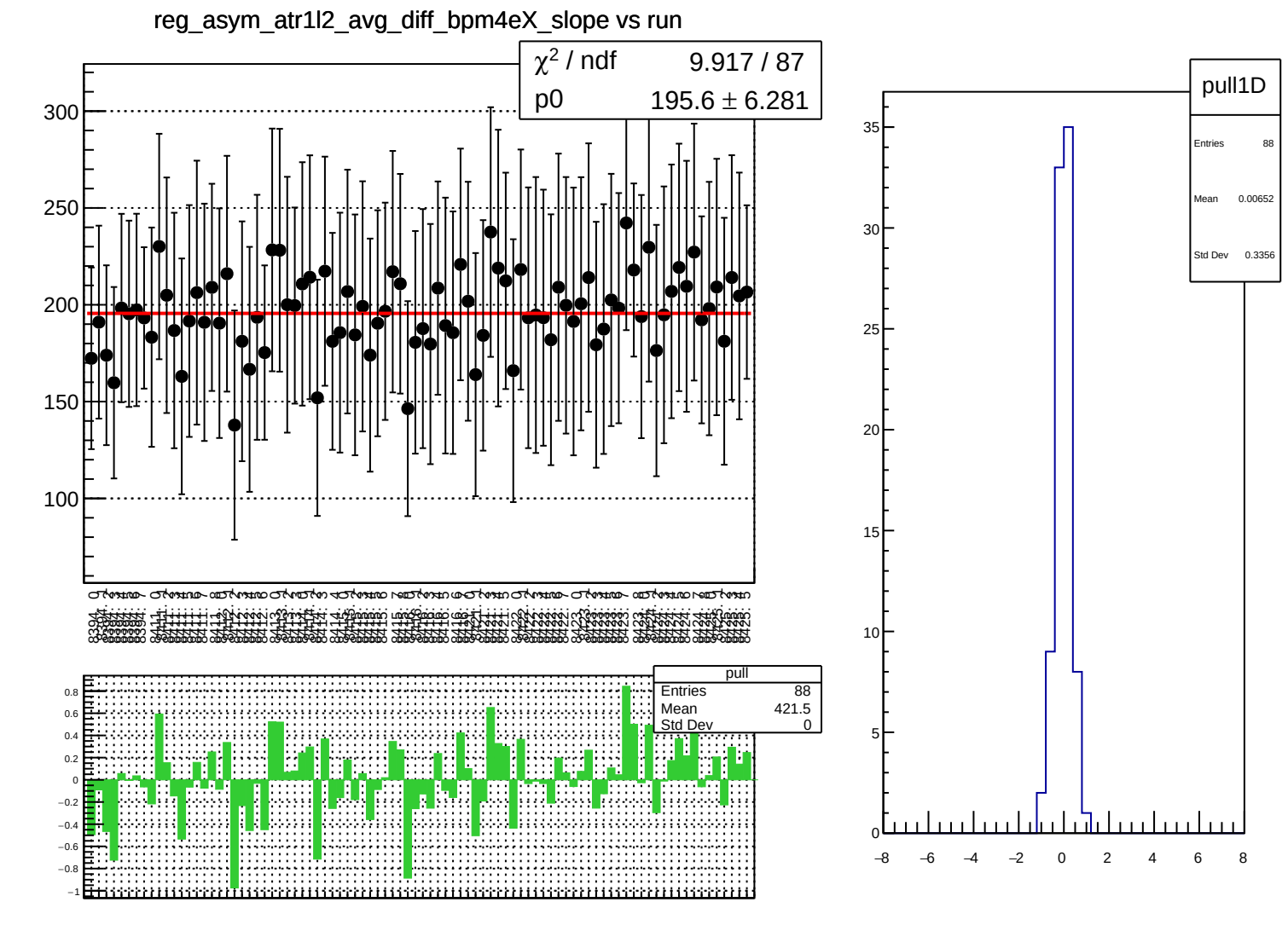

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.26 / 87
p0 −23.37 ± 14.1
200
100
0
−100
−200
pull
Entries 88
Mean −48.57
Std Dev 0
0.4
0.2
0
−0.2
−0.4

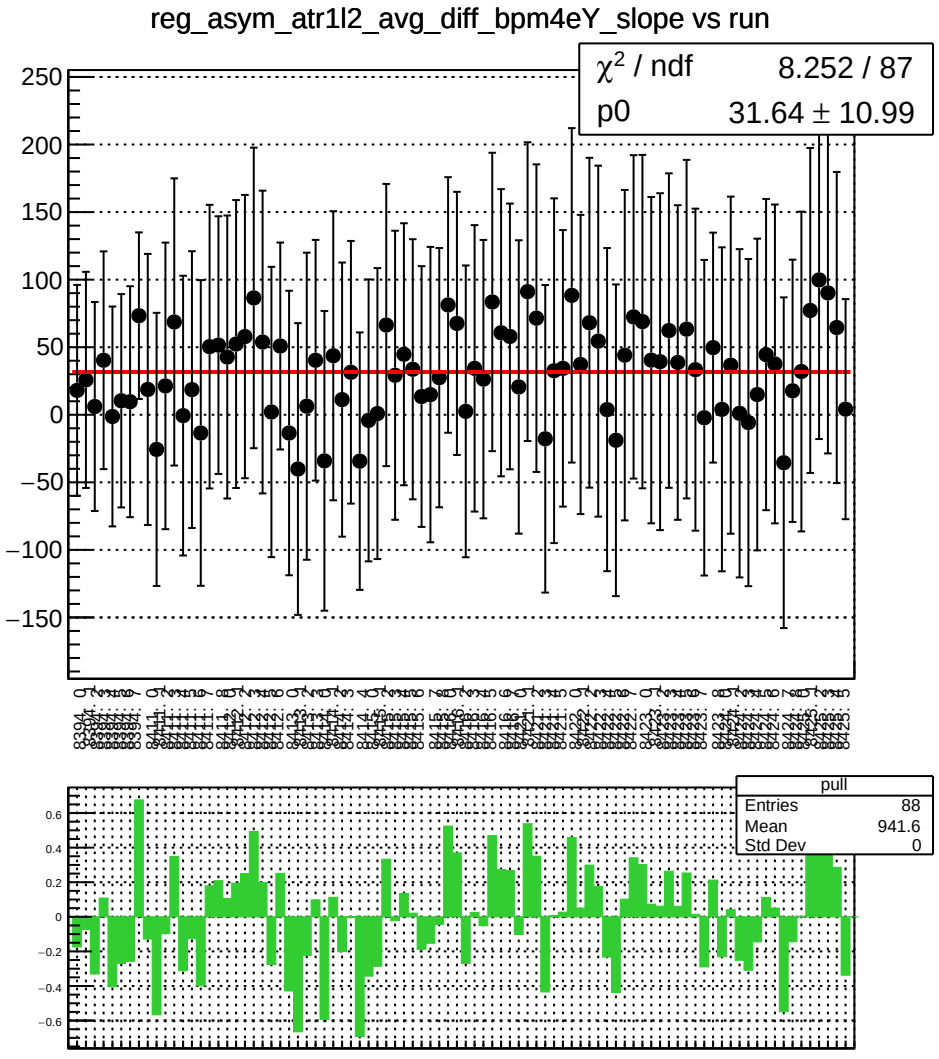

pull1D
Entries 88
Mean −0.001006
Std Dev 0.2445
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

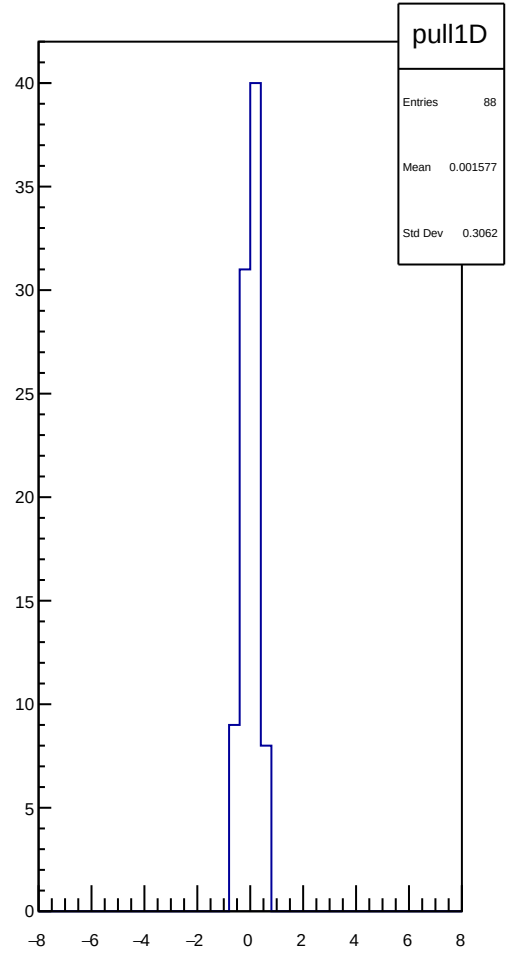

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 5.713 / 87
p0 157.4 ± 0.8464
175
170
165
160
155
150
145
140
pull
Entries 88
Mean 75.18
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean 0.007559
Std Dev 0.2547
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

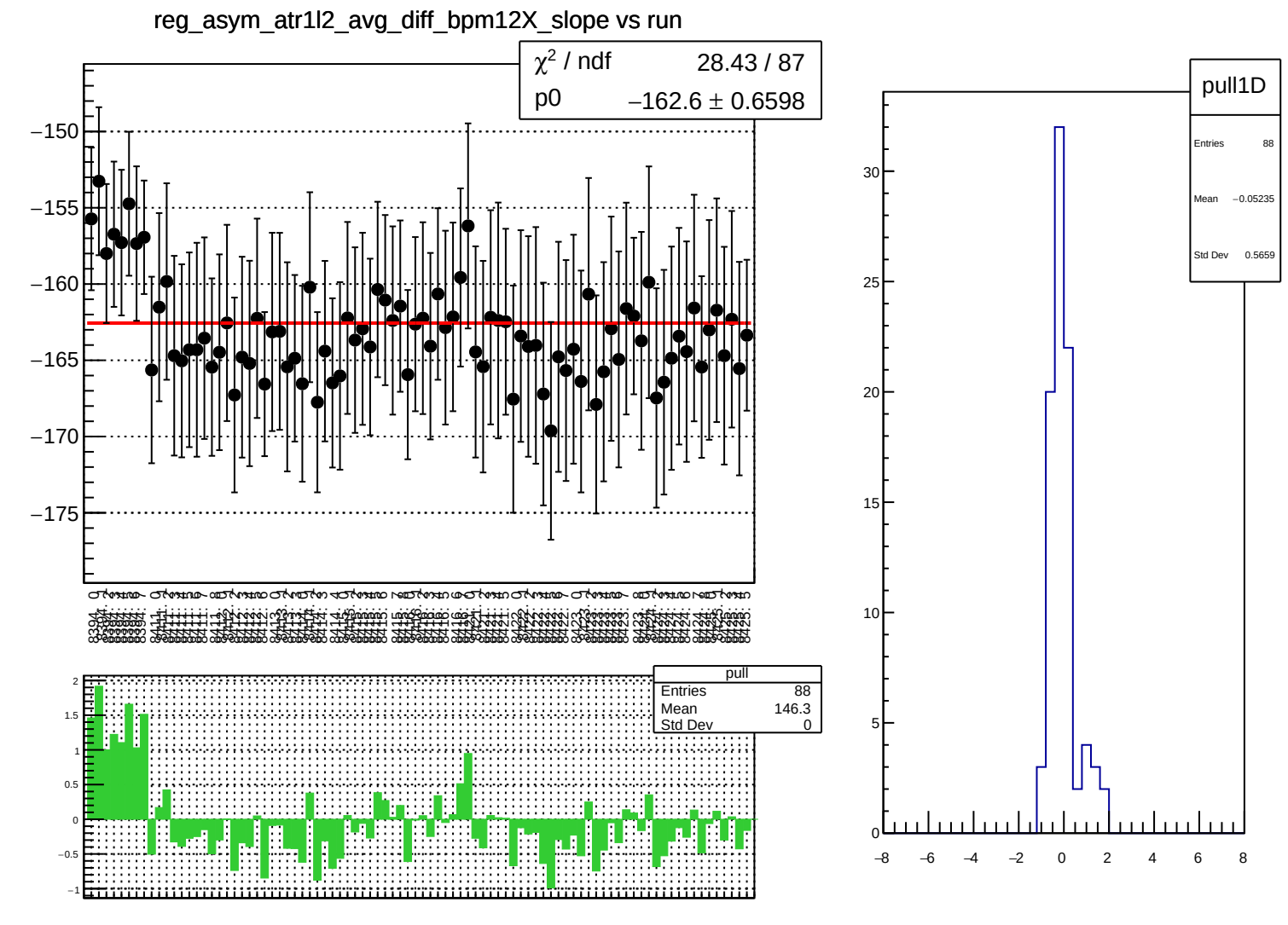

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 10.49 / 87
p0 −295.7 ± 5.63
−200
−250
−300
−350
−400
pull
Entries 88
Mean 414.1
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean −0.00783
Std Dev 0.3451
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

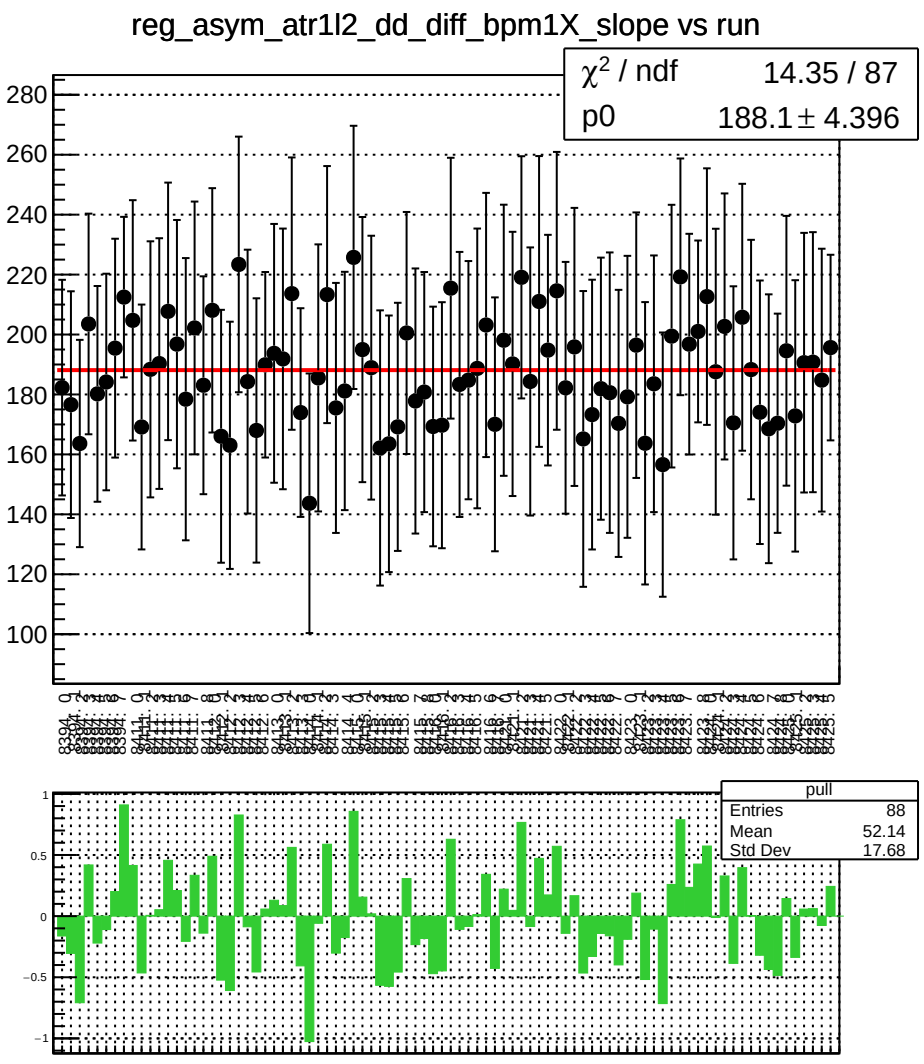

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.495 / 87
p0 35.98 ± 10.48
pull
Entries 88
Mean −1125
Std Dev 0
pull1D
Entries 88
Mean 0.000855
Std Dev 0.3107

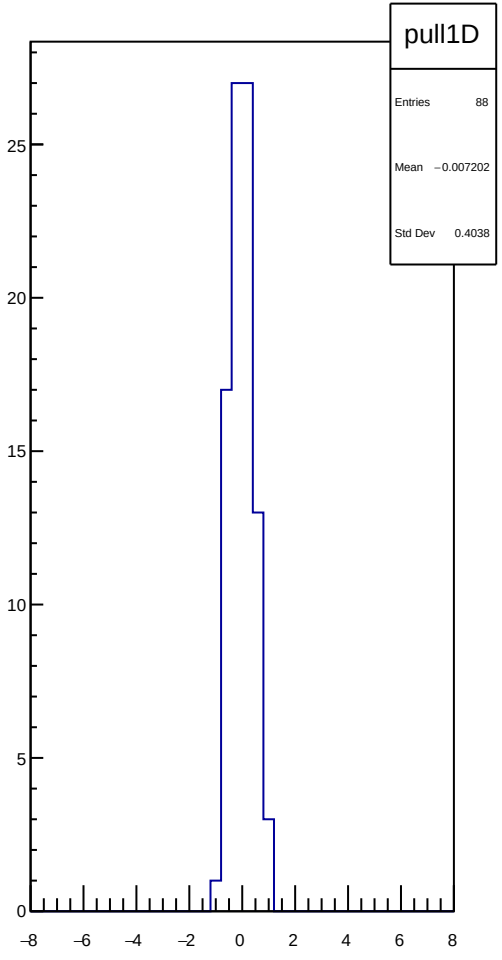

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.917 / 87
p0 195.6 ± 6.281
300
250
200
150
100
pull
Entries 88
Mean 421.5
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 88
Mean 0.00652
Std Dev 0.3356
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

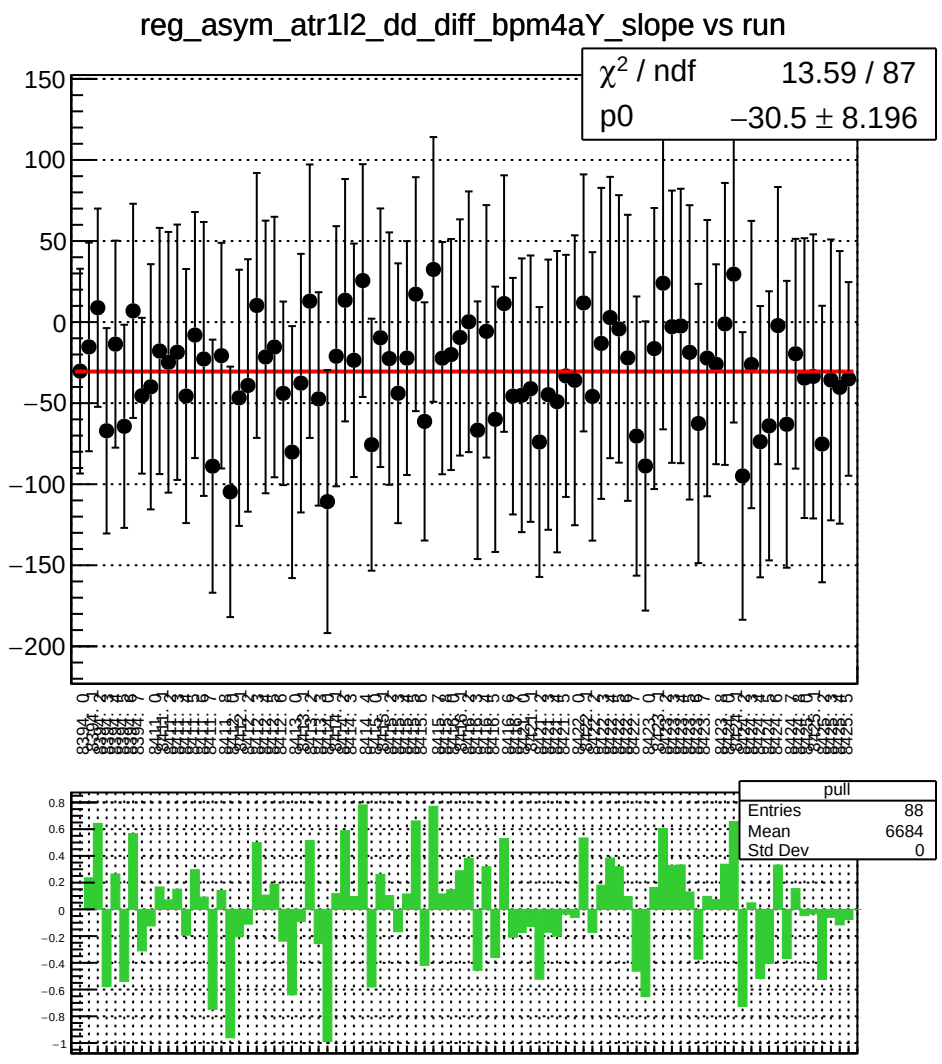

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.252 / 87
p0 31.64 ± 10.99
pull
Entries 88
Mean 941.6
Std Dev 0

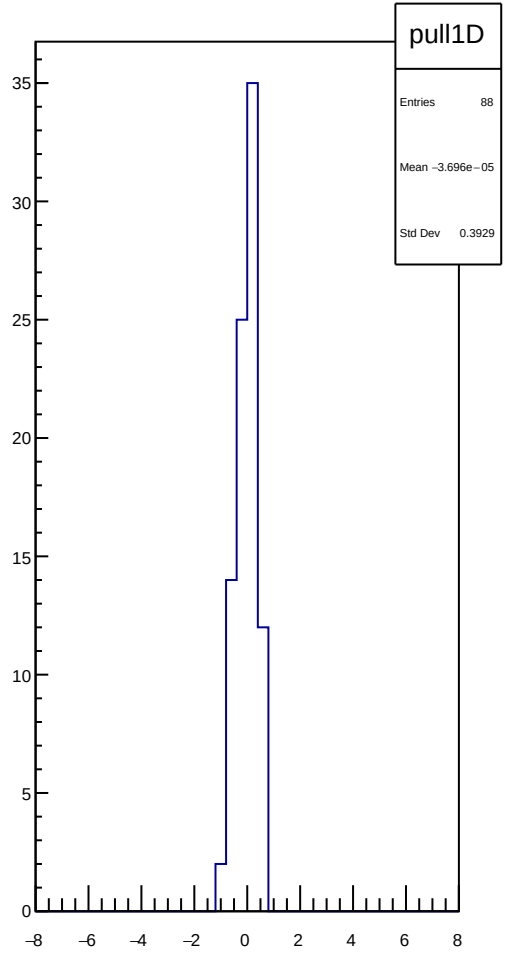

pull1D
Entries 88
Mean 0.001577
Std Dev 0.3062

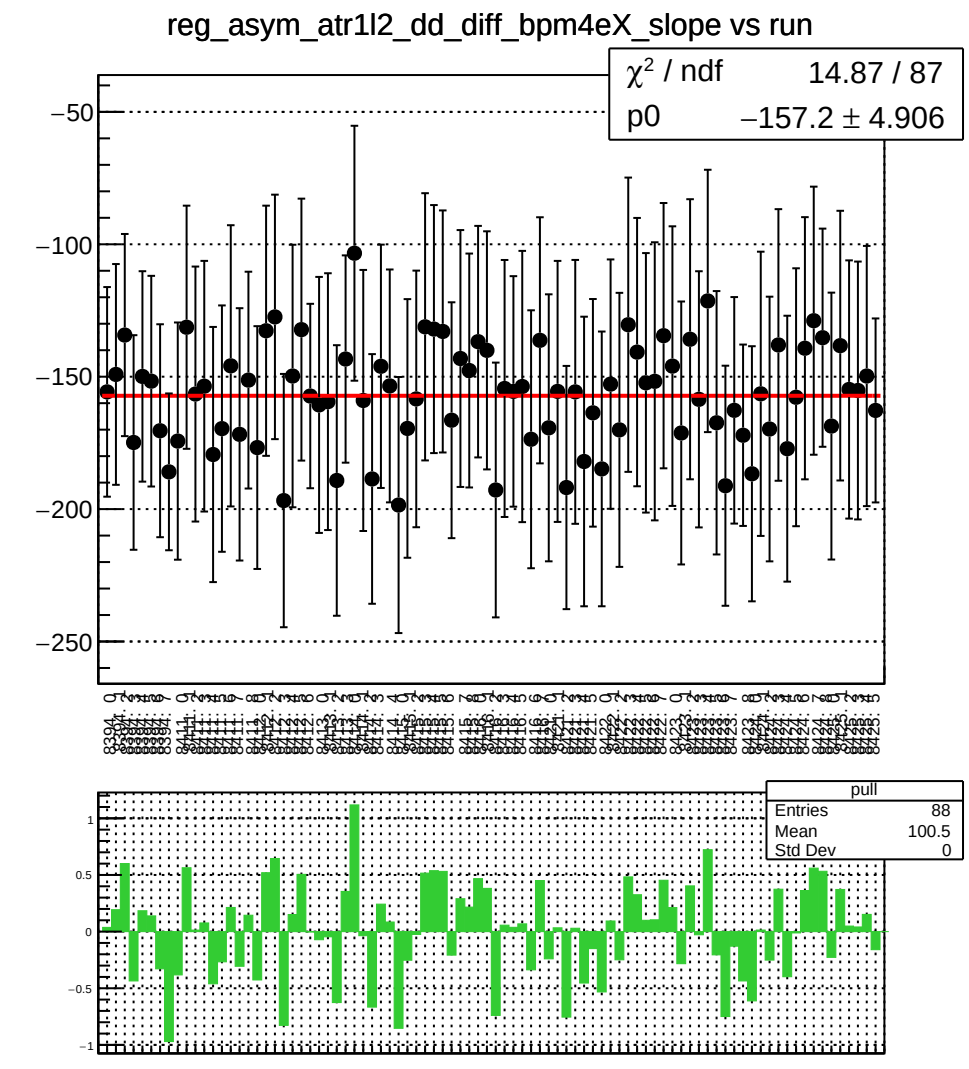

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 28.43 / 87
p0 −162.6 ± 0.6598
−150
−155
−160
−165
−170
−175
pull
Entries 88
Mean 146.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean −0.05235
Std Dev 0.5659
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

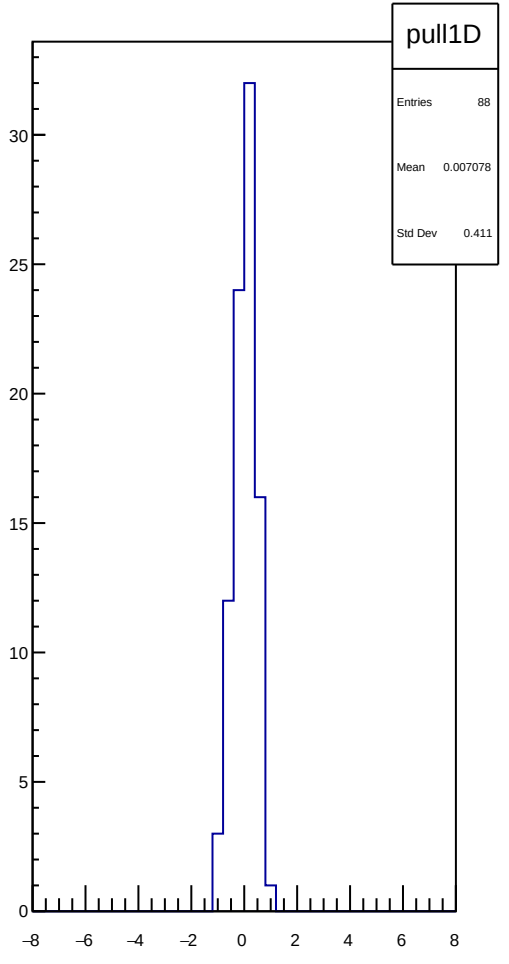

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 14.35 / 87
p0 188.1 ± 4.396
pull
Entries 88
Mean 52.14
Std Dev 17.68

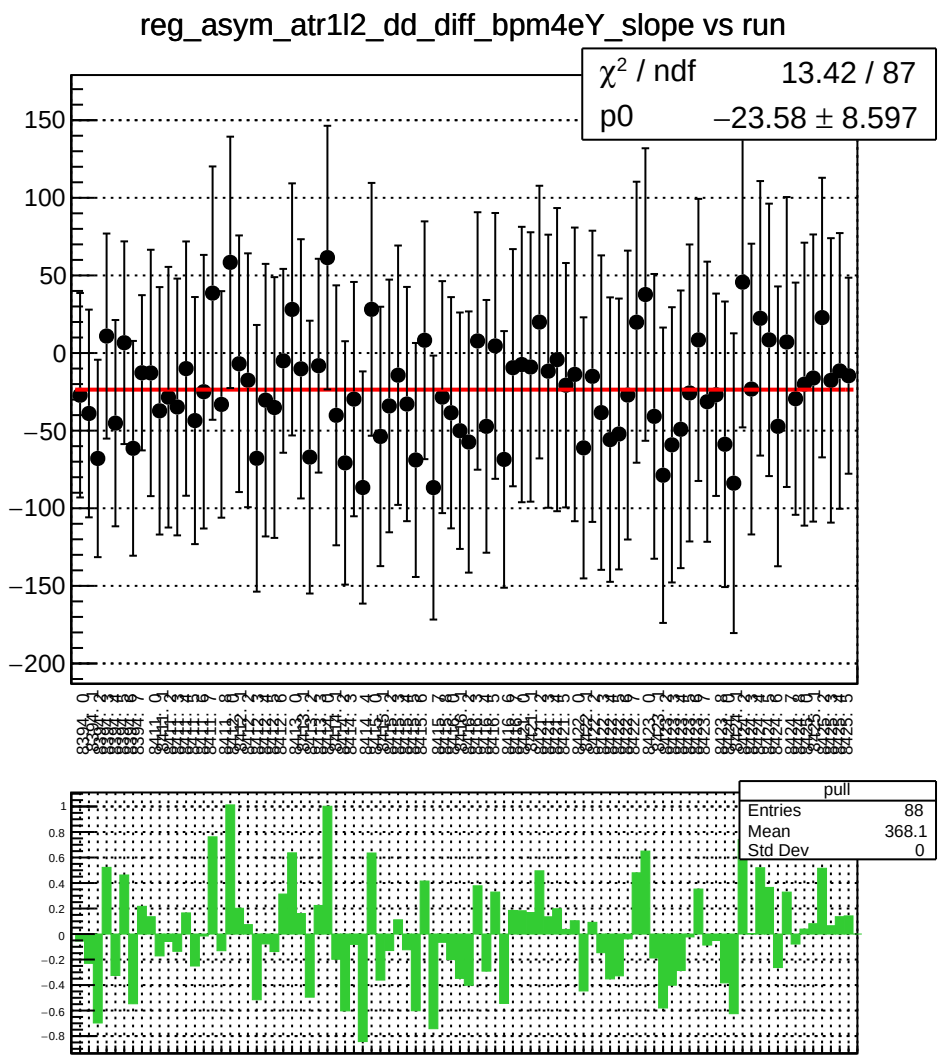

pull1D
Entries 88
Mean −0.007202
Std Dev 0.4038

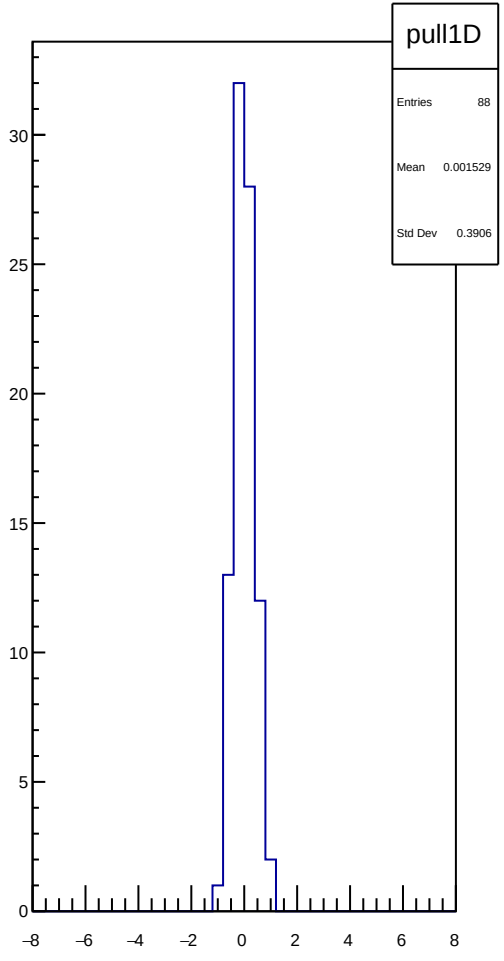

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.59 / 87
p0 −30.5 ± 8.196
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 6684
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

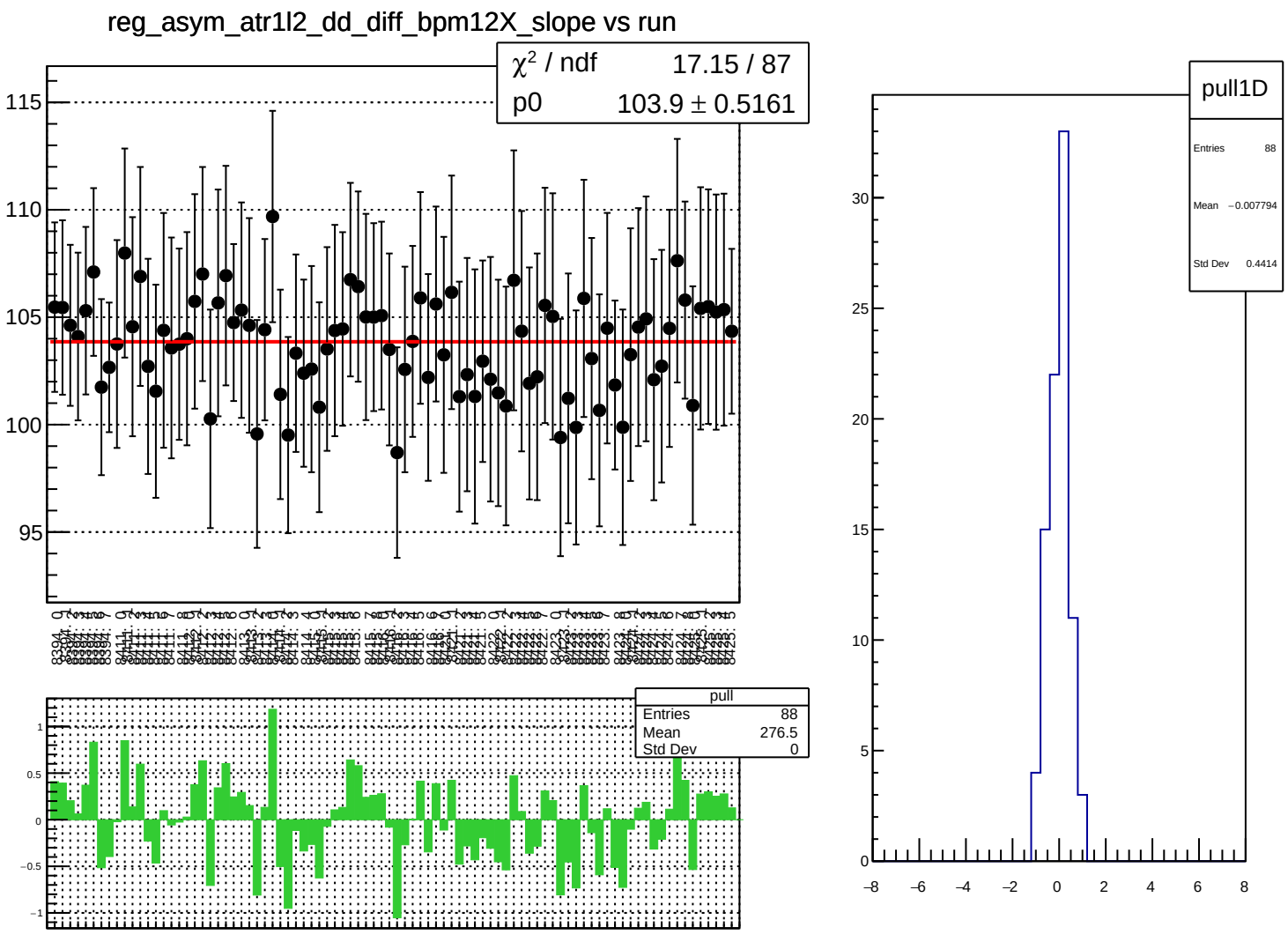

pull1D
Entries 88
Mean −3.696e−05
Std Dev 0.3929
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

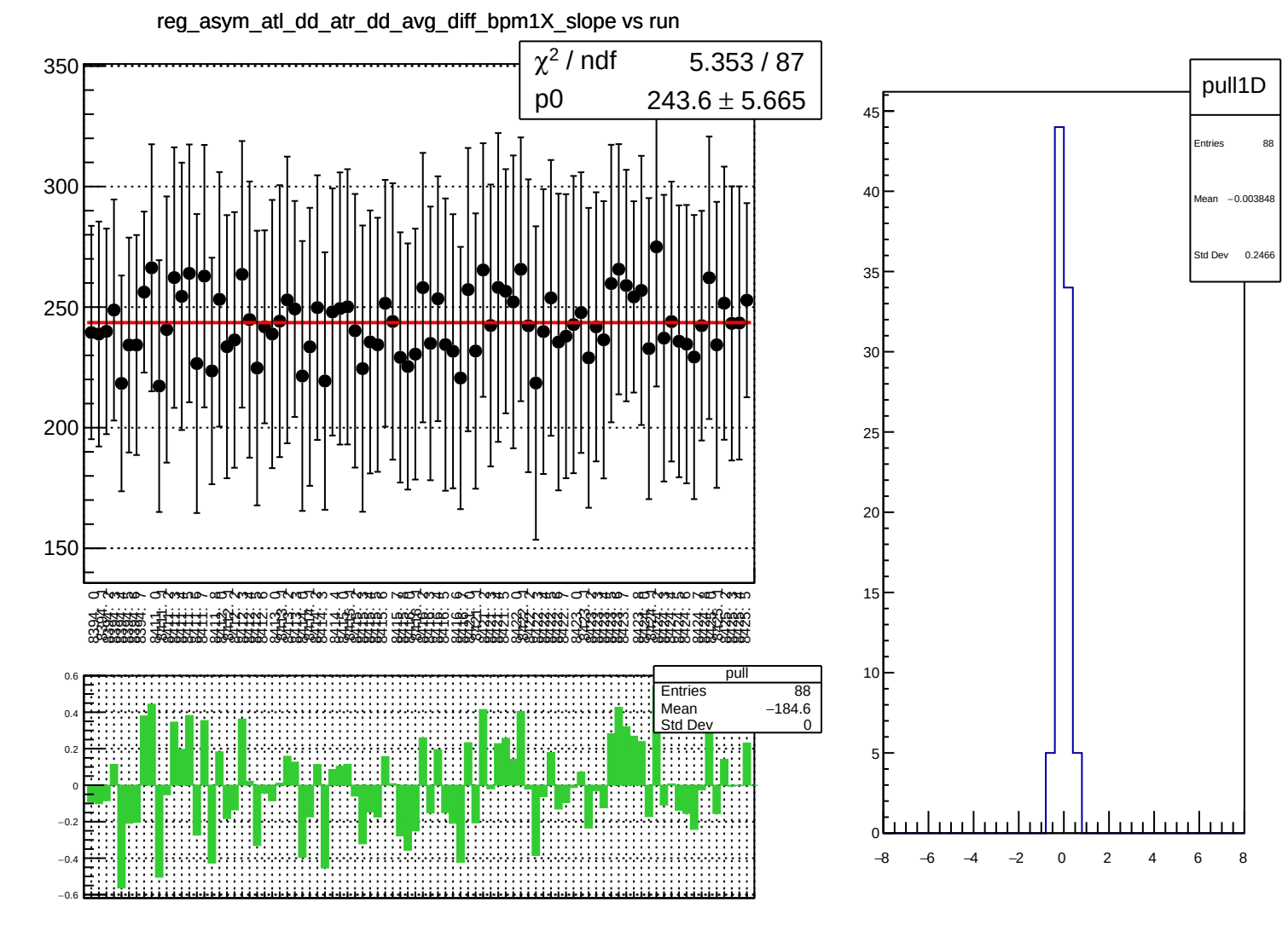

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.87 / 87
p0 −157.2 ± 4.906
−50
−100
−150
−200
−250
pull
Entries 88
Mean 100.5
Std Dev 0
1
0.5
0
−0.5
−1

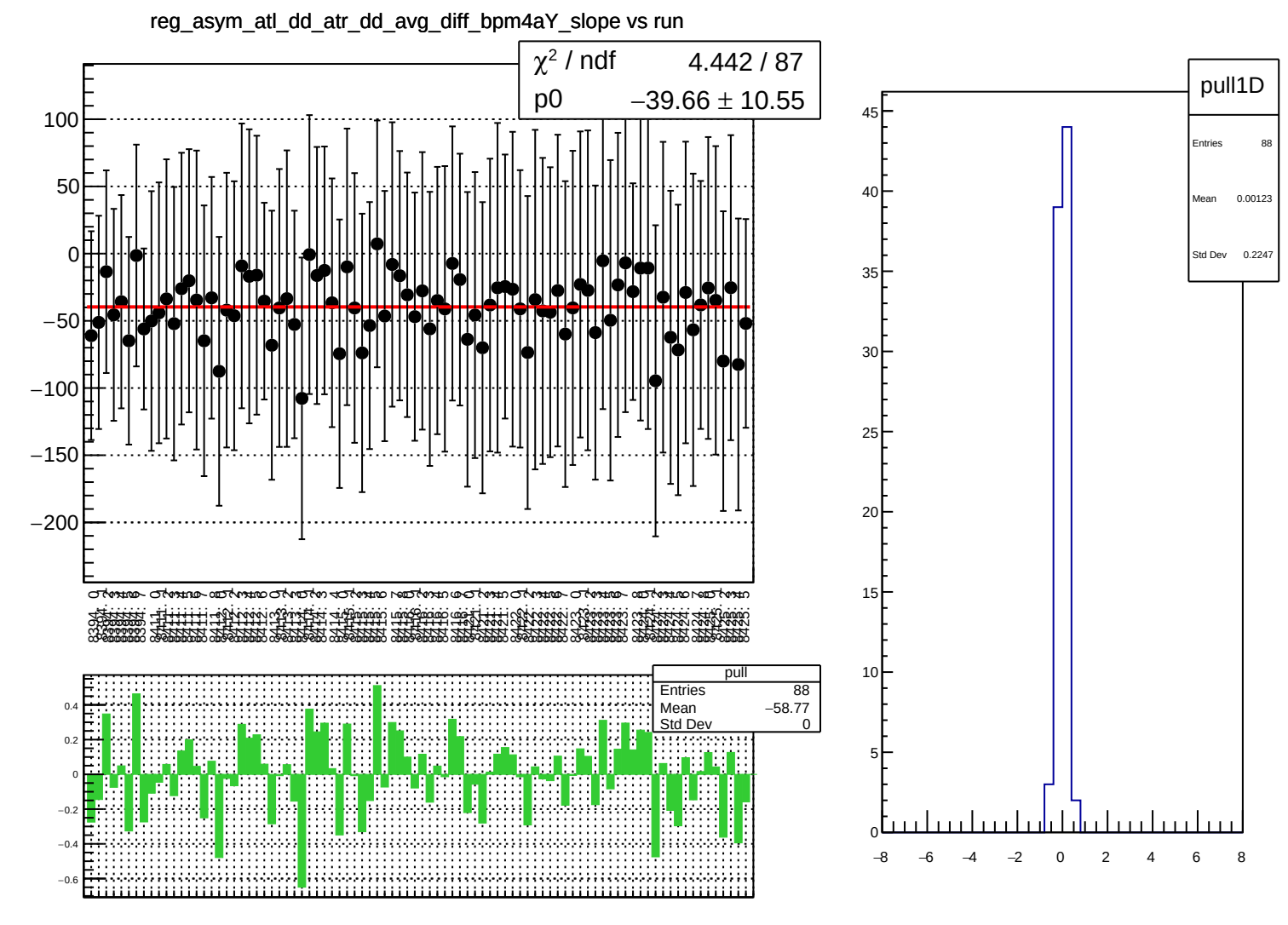

pull1D
Entries 88
Mean 0.007078
Std Dev 0.411
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

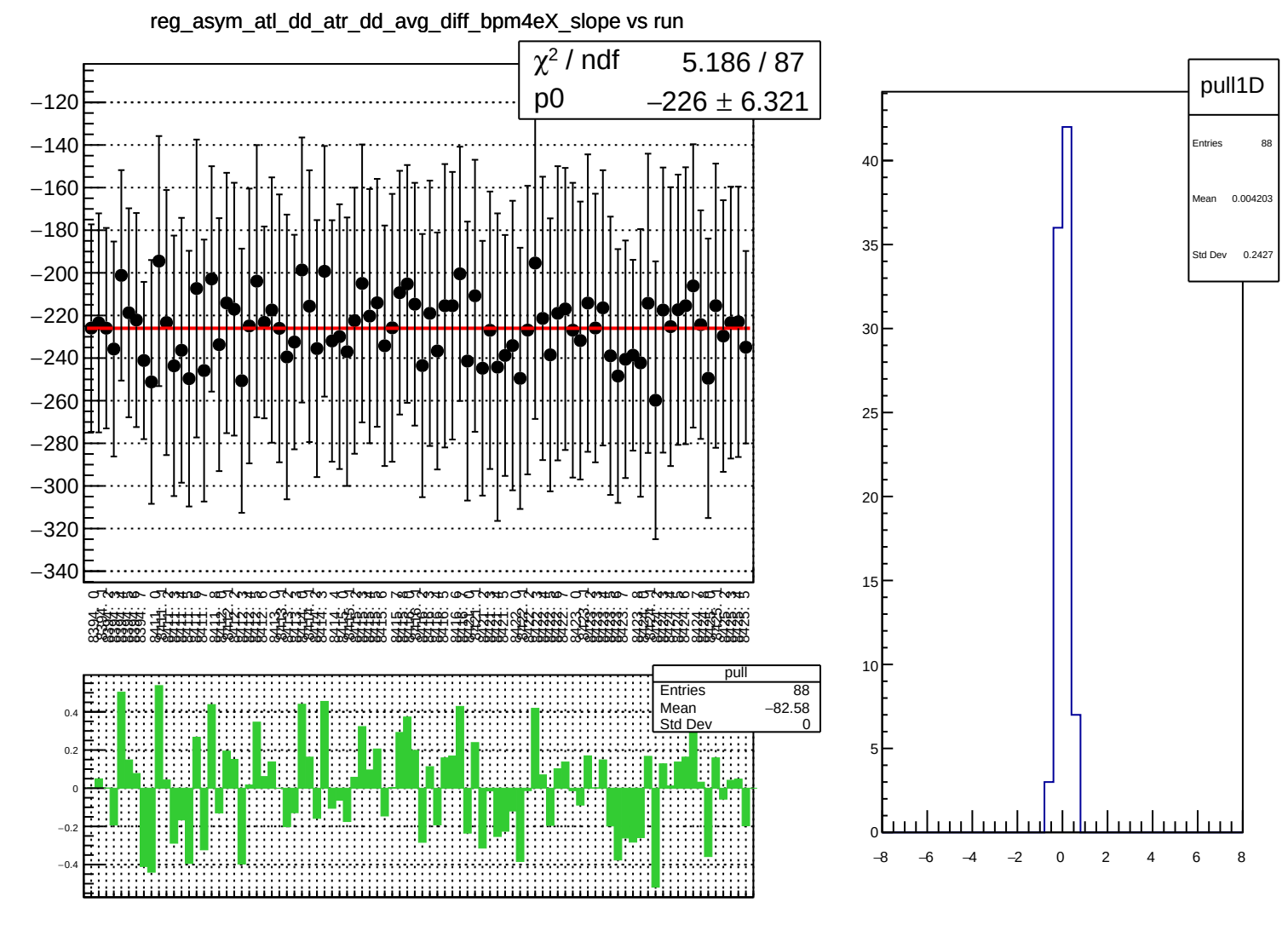

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.42 / 87
p0 −23.58 ± 8.597
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 368.1
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

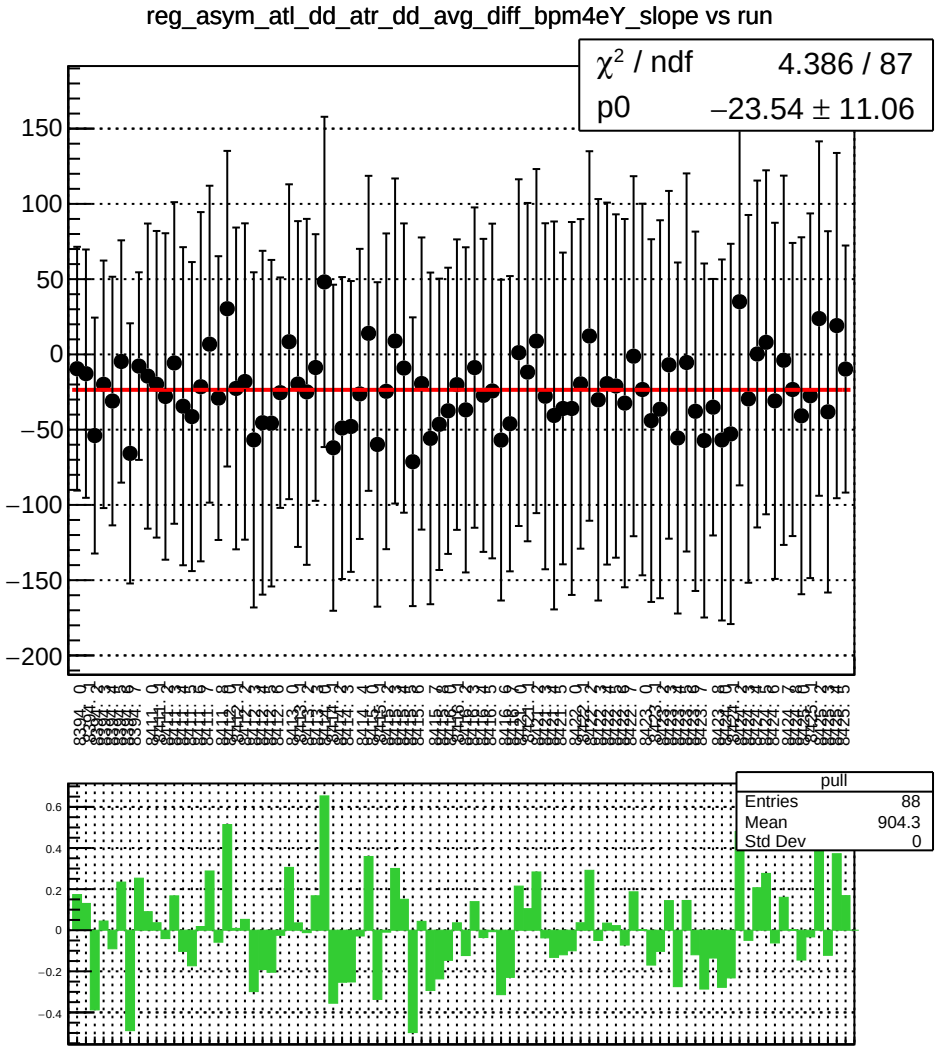

pull1D
Entries 88
Mean 0.001529
Std Dev 0.3906
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

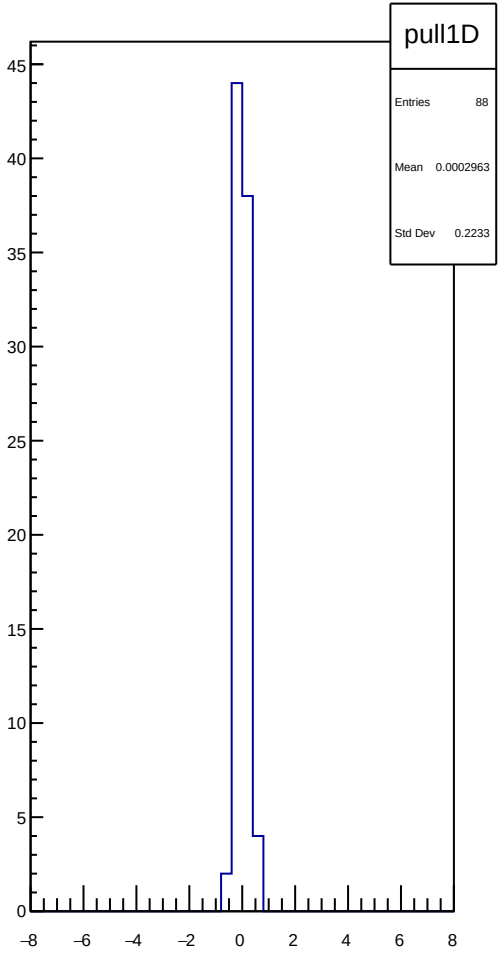

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 17.15 / 87
p0 103.9 ± 0.5161
115
110
105
100
95
pull
Entries 88
Mean 276.5
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean −0.007794
Std Dev 0.4414
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

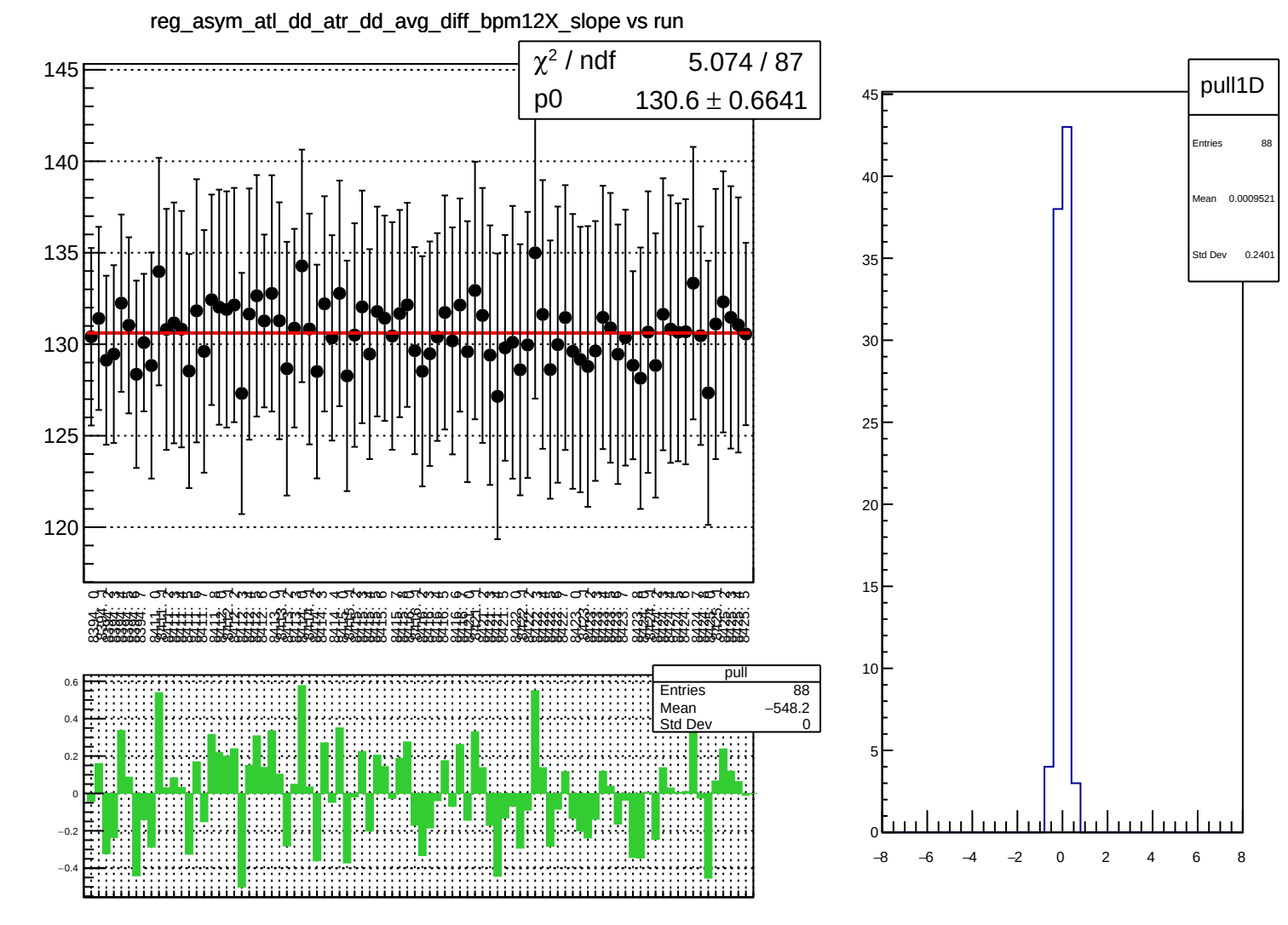

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 5.353 / 87
p0 243.6 ± 5.665
350
300
250
200
150
pull
Entries 88
Mean −184.6
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean −0.003848
Std Dev 0.2466
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

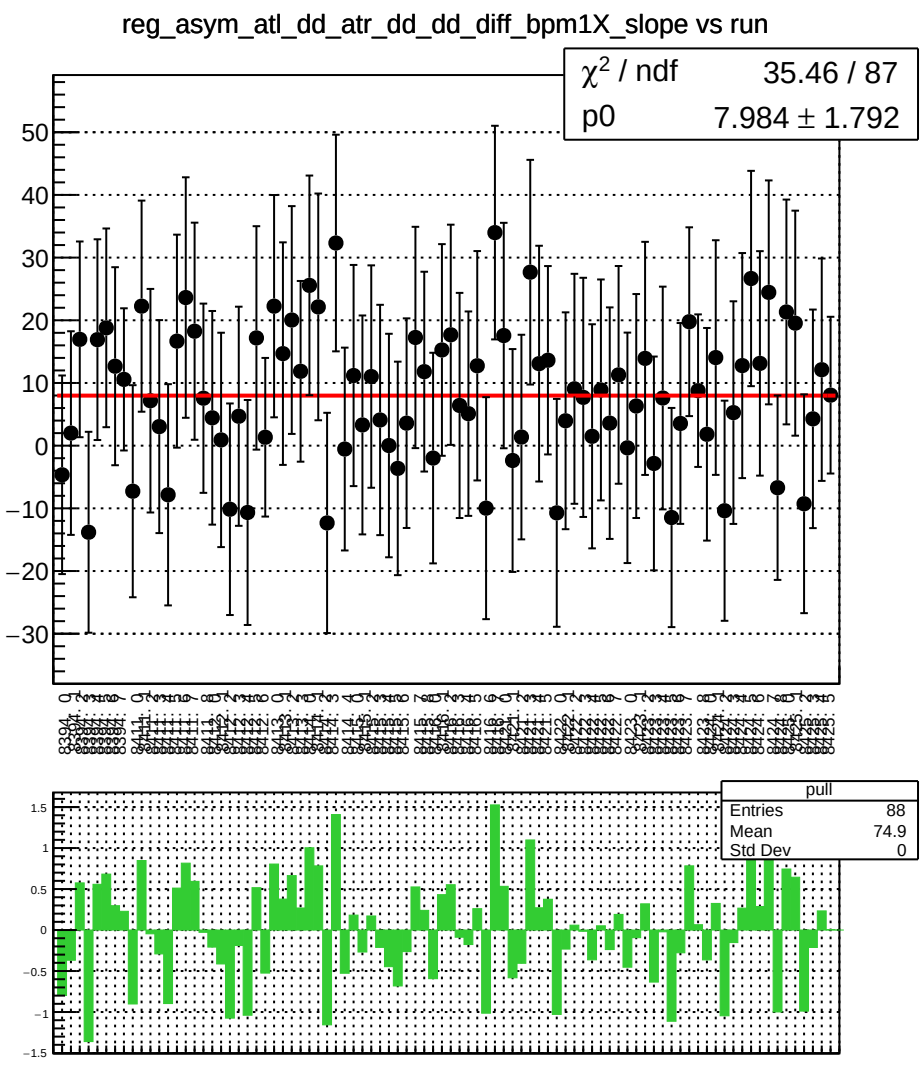

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.442 / 87
p0 −39.66 ± 10.55
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −58.77
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean 0.00123
Std Dev 0.2247
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

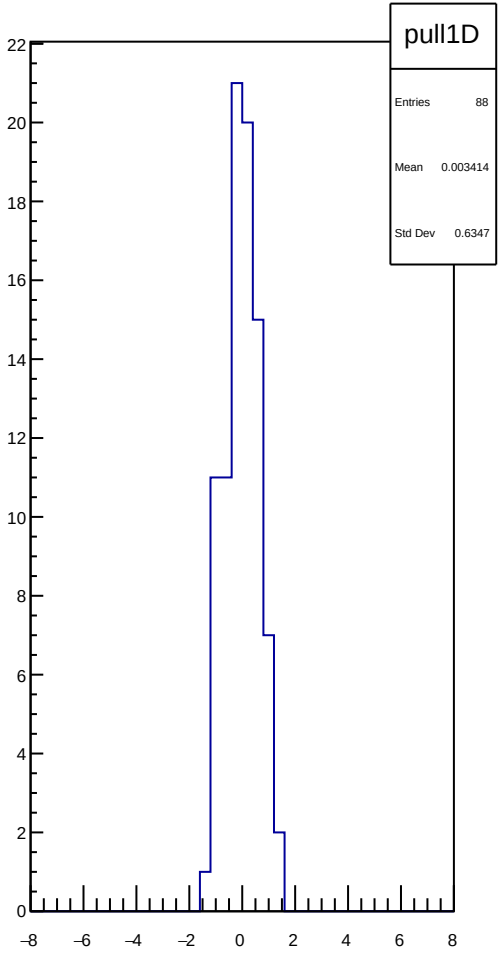

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.186 / 87
p0 −226 ± 6.321
pull
Entries 88
Mean −82.58
Std Dev 0
pull1D
Entries 88
Mean 0.004203
Std Dev 0.2427

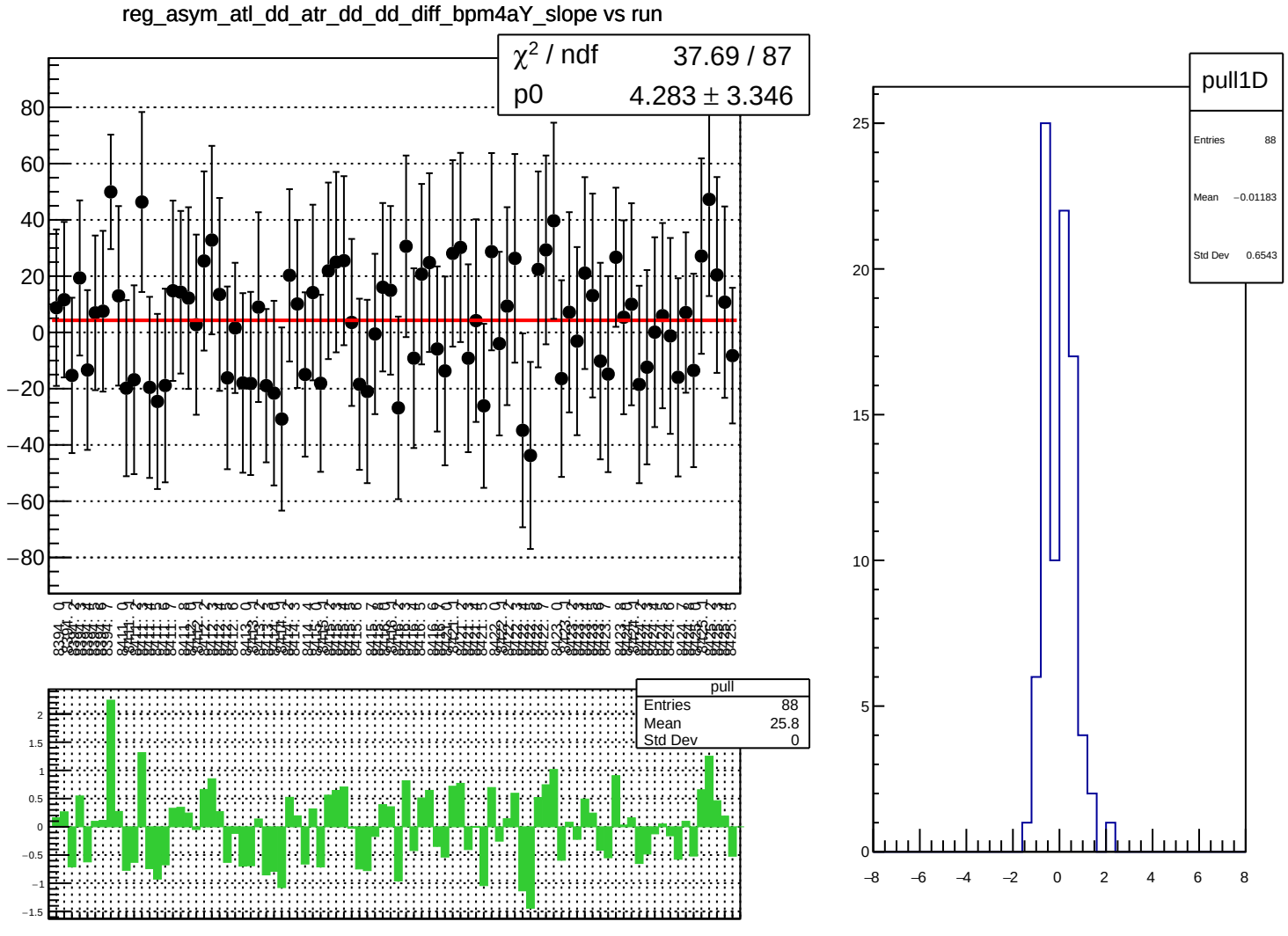

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.386 / 87
p0 −23.54 ± 11.06
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 904.3
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

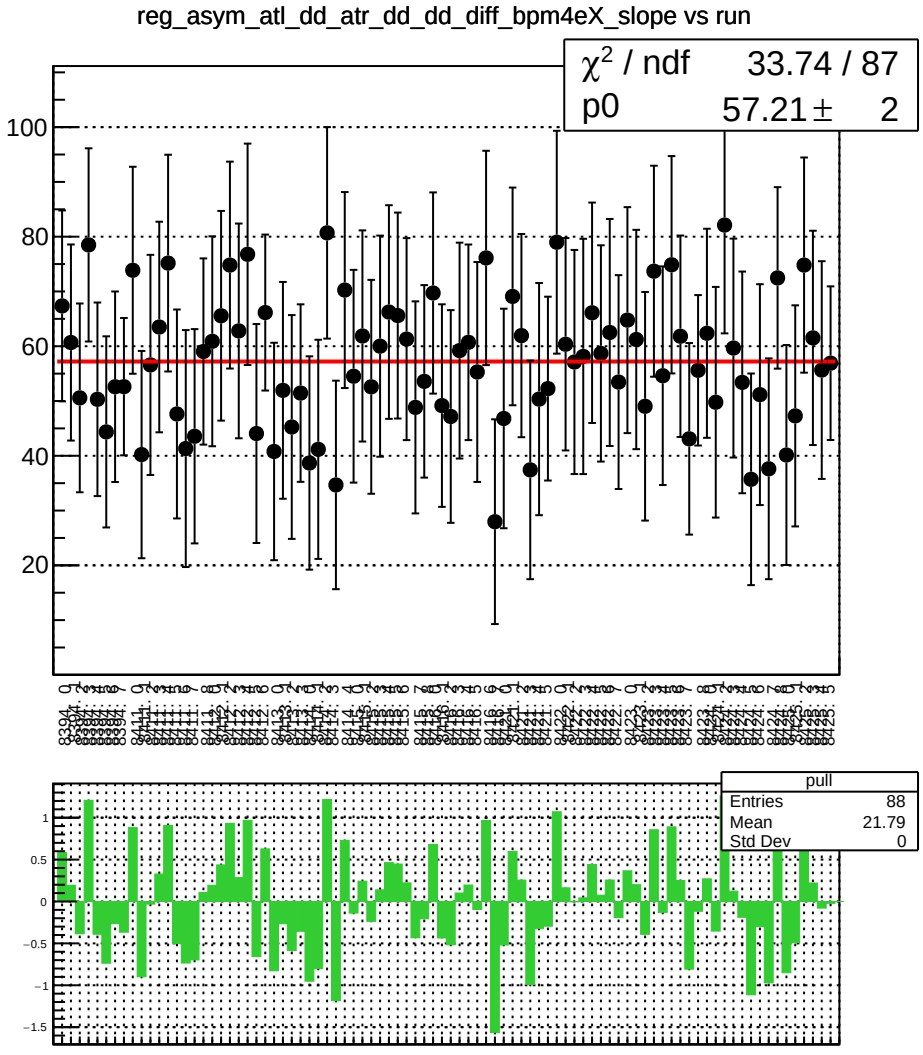

pull1D
Entries 88
Mean 0.0002963
Std Dev 0.2233
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

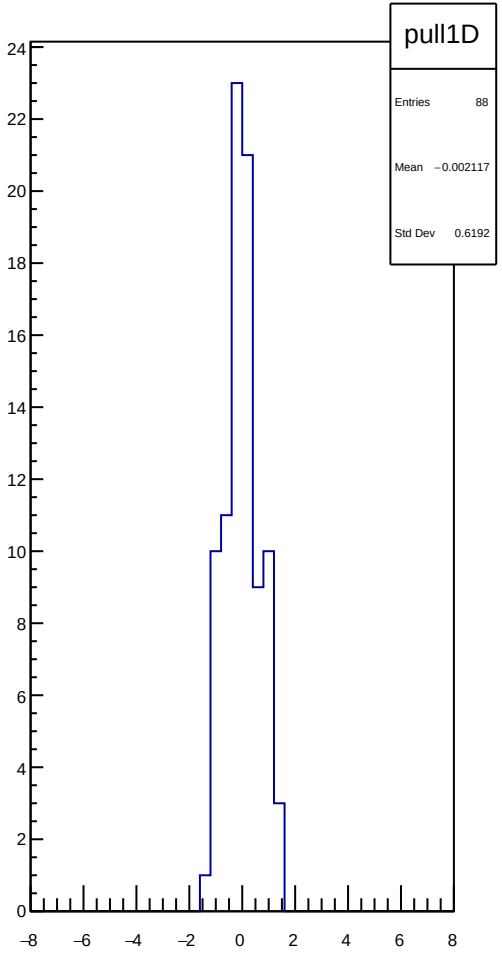

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 5.074 / 87
p0 130.6 ± 0.6641
pull
Entries 88
Mean −548.2
Std Dev 0
pull1D
Entries 88
Mean 0.0009521
Std Dev 0.2401

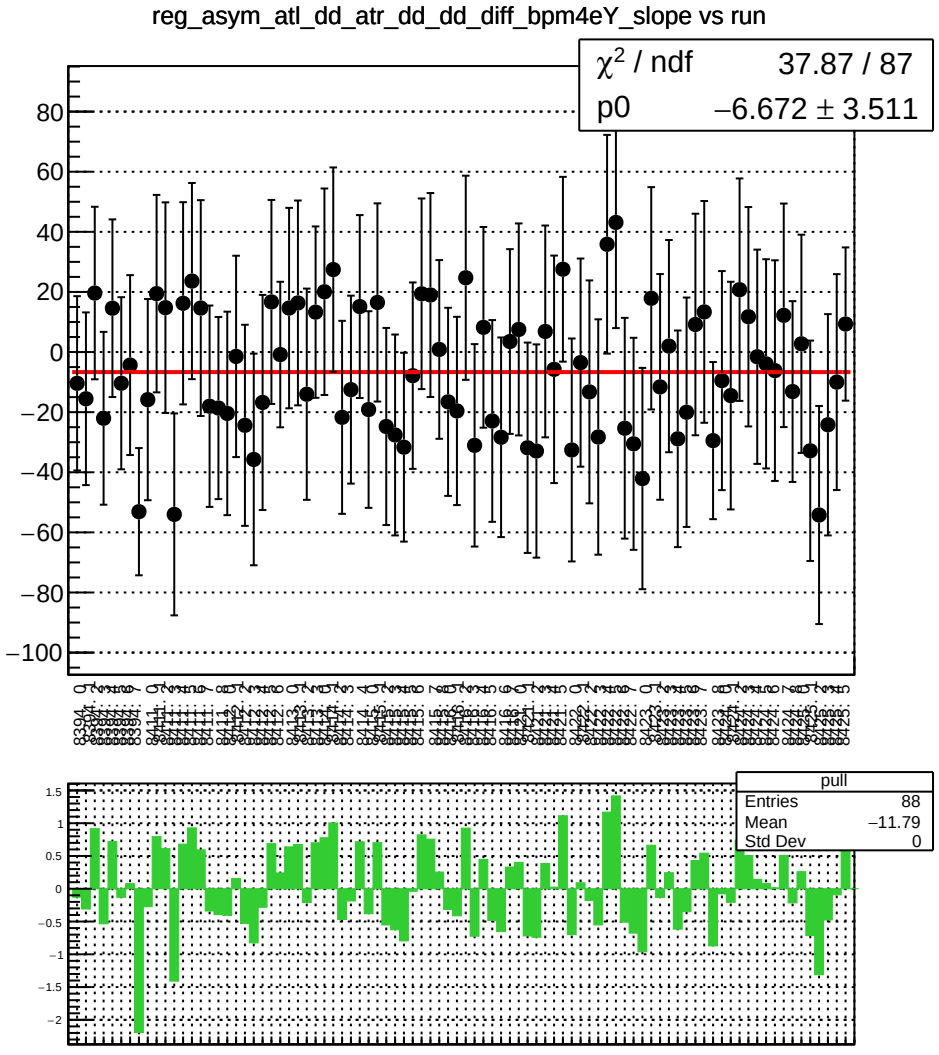

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 35.46 / 87
p0 7.984 ± 1.792
pull
Entries 88
Mean 74.9
Std Dev 0

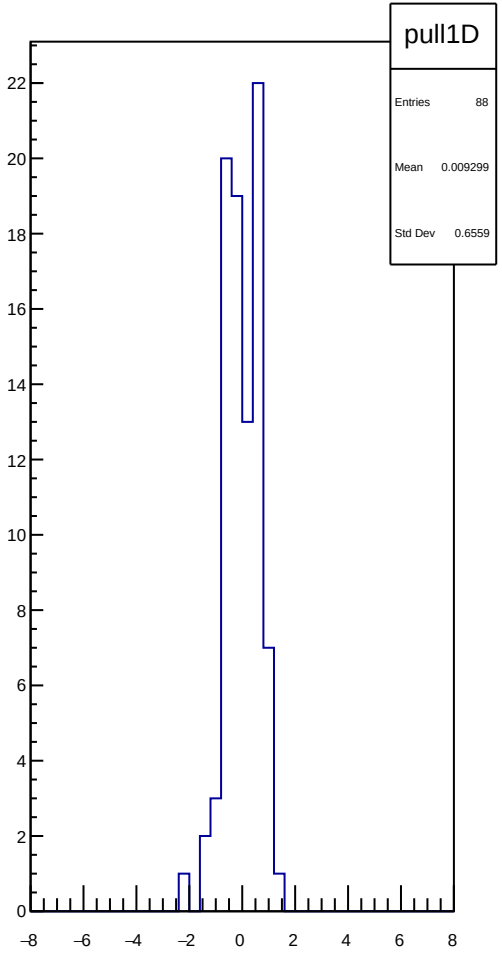

pull1D
Entries 88
Mean 0.003414
Std Dev 0.6347

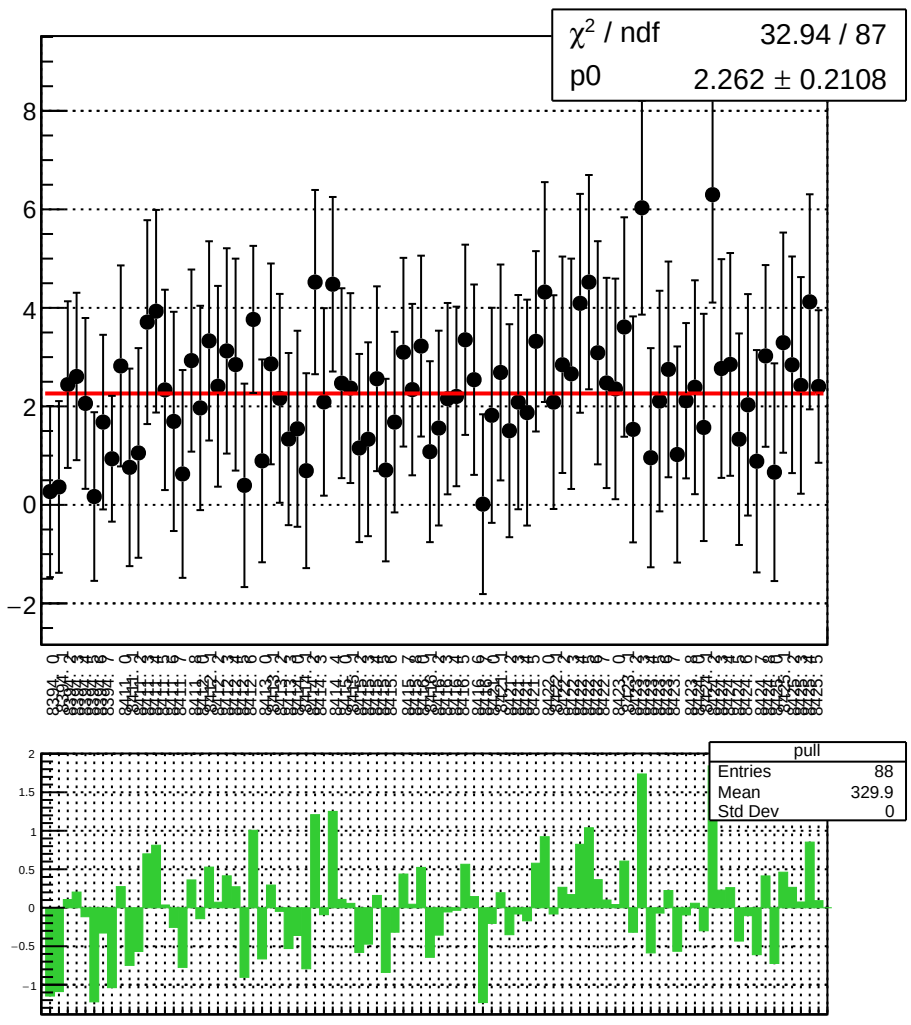

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 37.69 / 87
p0 4.283 ± 3.346
pull
Entries 88
Mean 25.8
Std Dev 0
pull1D
Entries 88
Mean −0.01183
Std Dev 0.6543

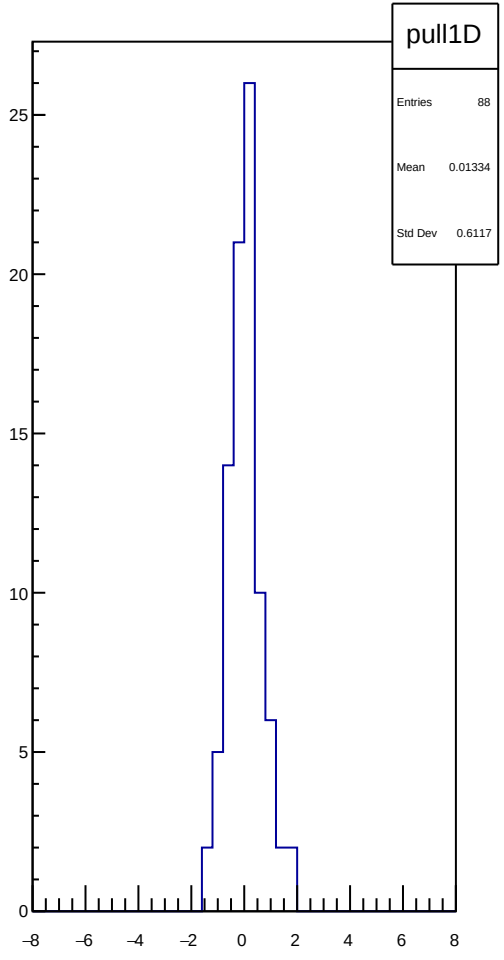

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 33.74 / 87
p0 57.21 ± 2
pull
Entries 88
Mean 21.79
Std Dev 0

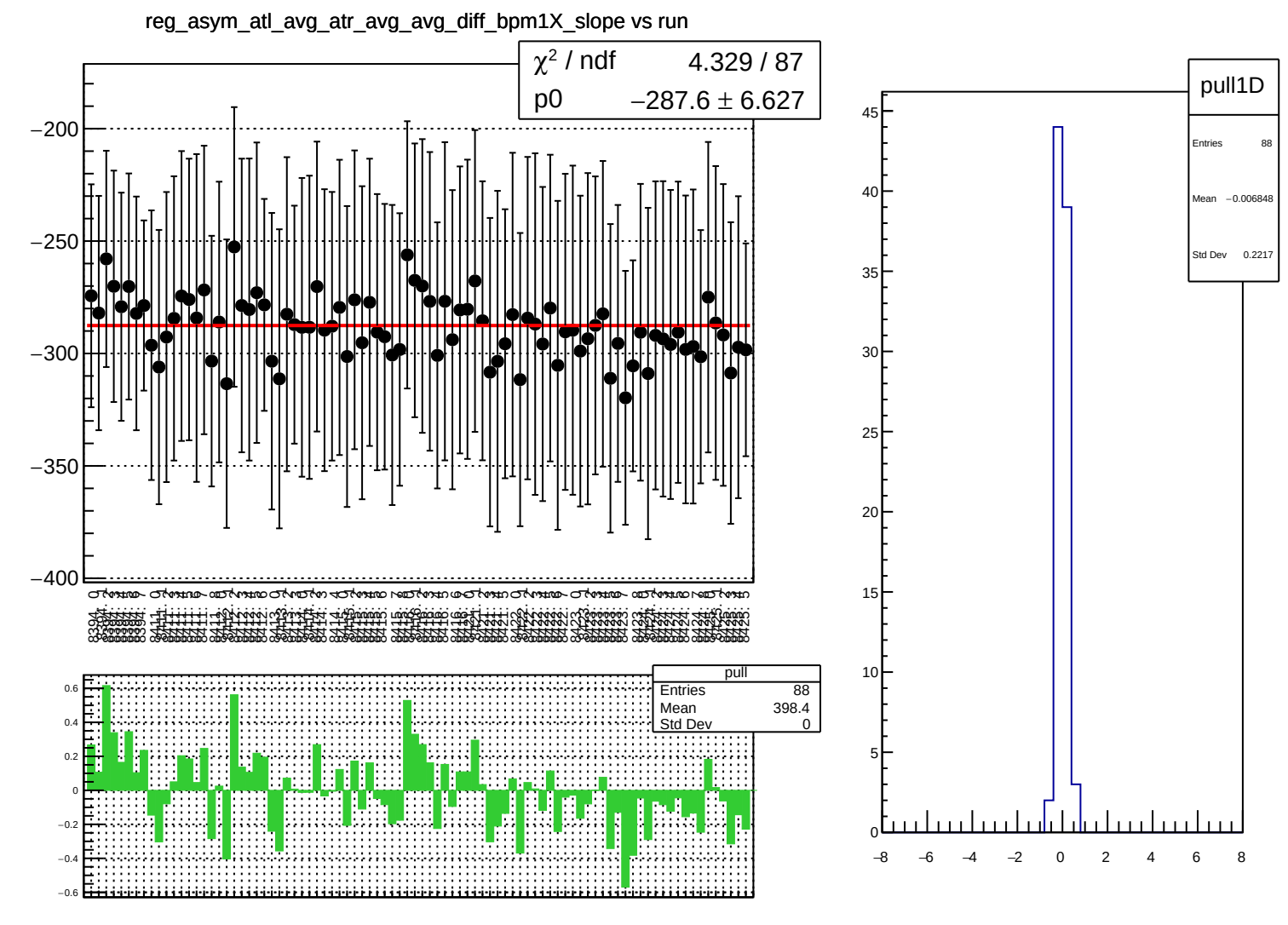

pull1D
Entries 88
Mean −0.002117
Std Dev 0.6192

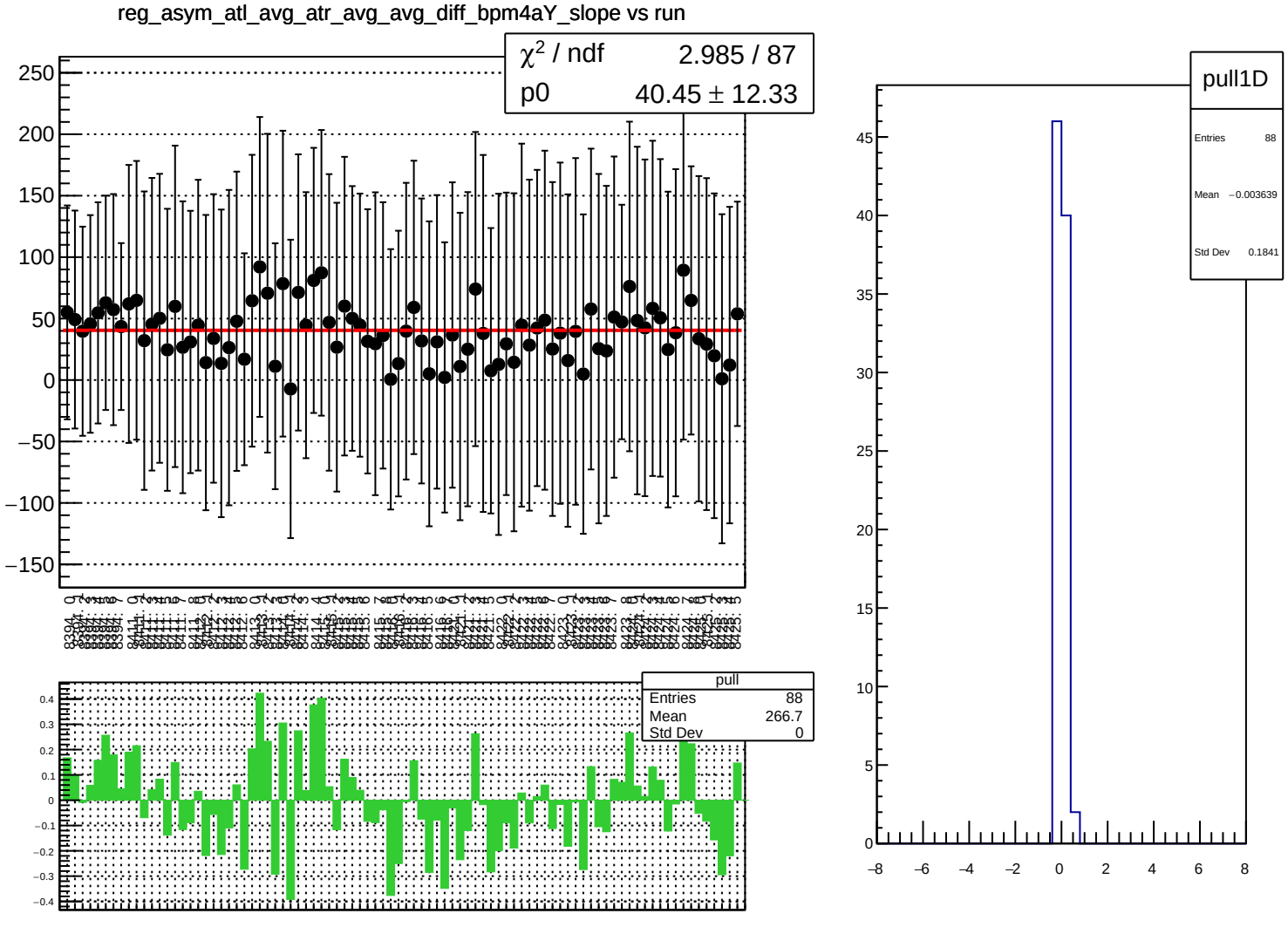

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 37.87 / 87
p0 −6.672 ± 3.511
pull
Entries 88
Mean −11.79
Std Dev 0

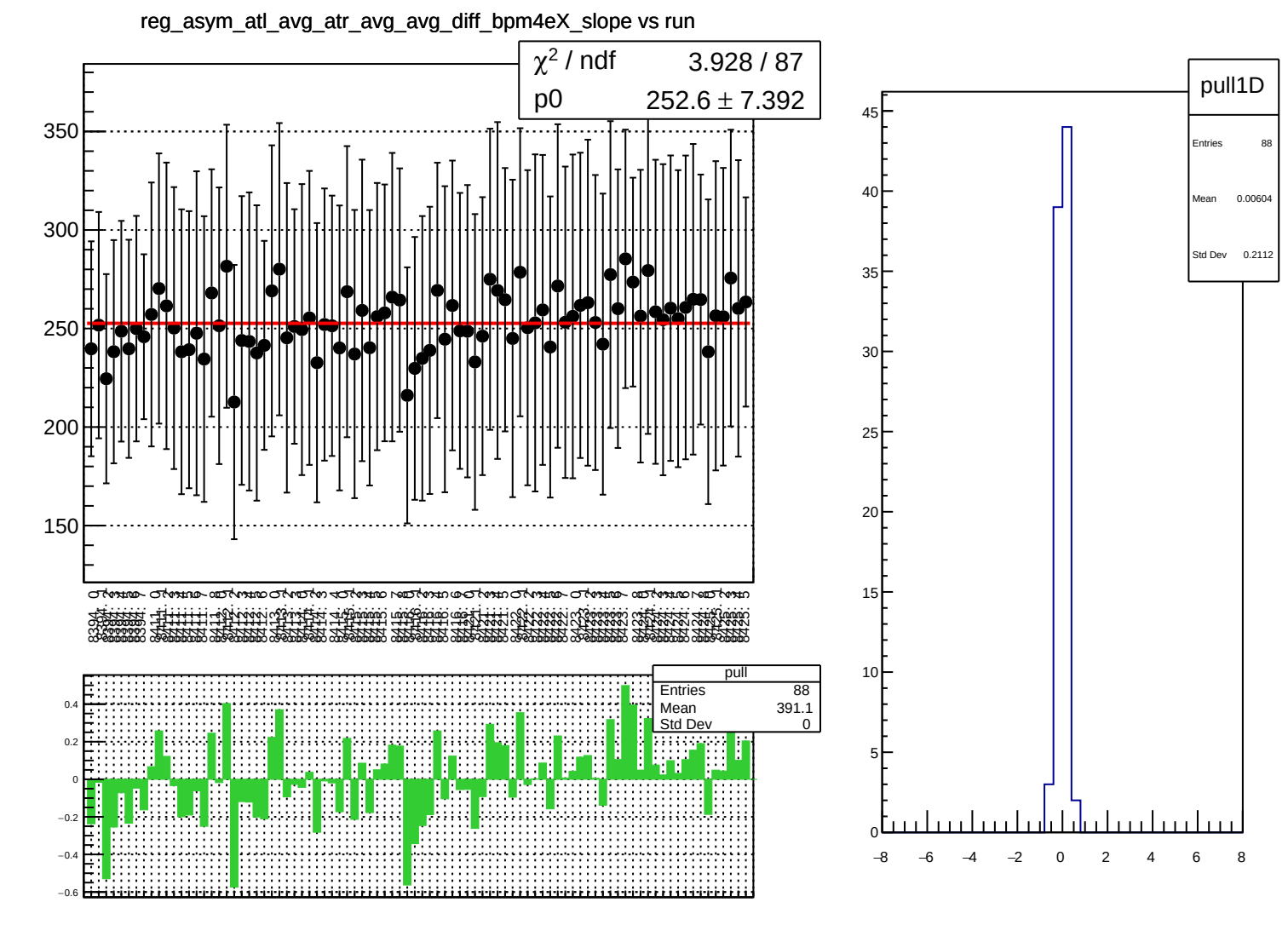

pull1D
Entries 88
Mean 0.009299
Std Dev 0.6559

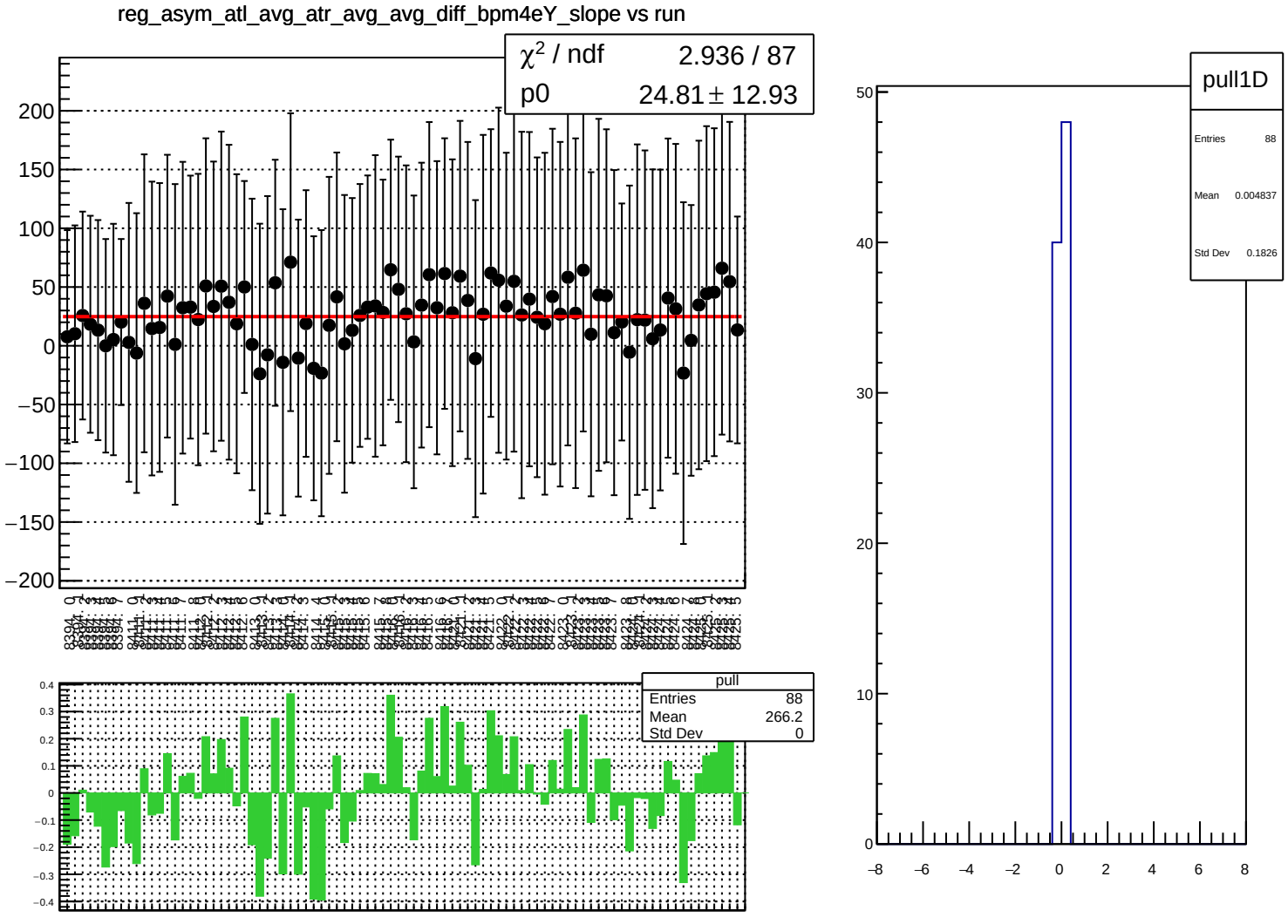

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 32.94 / 87
p0 2.262 ± 0.2108
pull
Entries 88
Mean 329.9
Std Dev 0

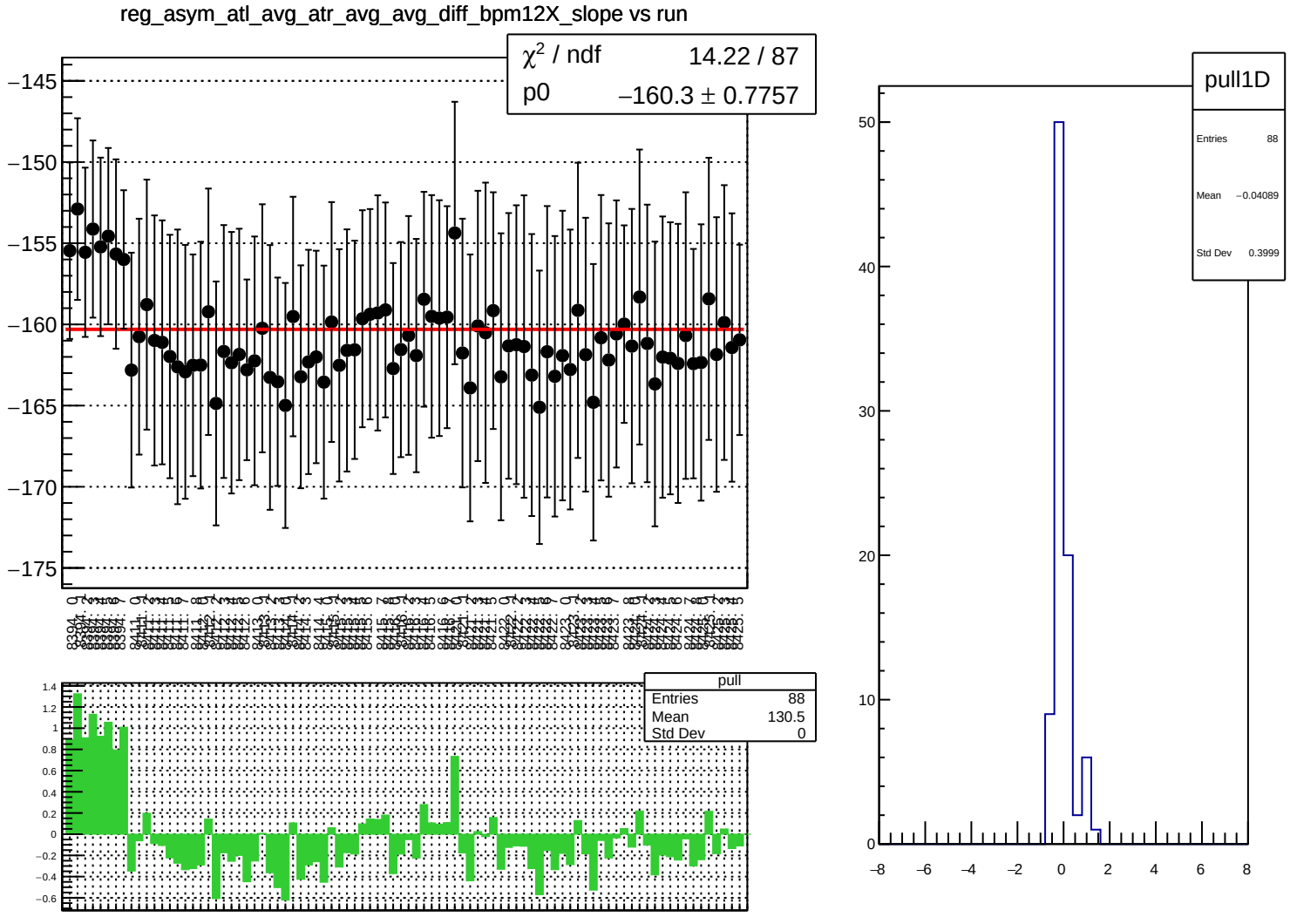

pull1D
Entries 88
Mean 0.01334
Std Dev 0.6117

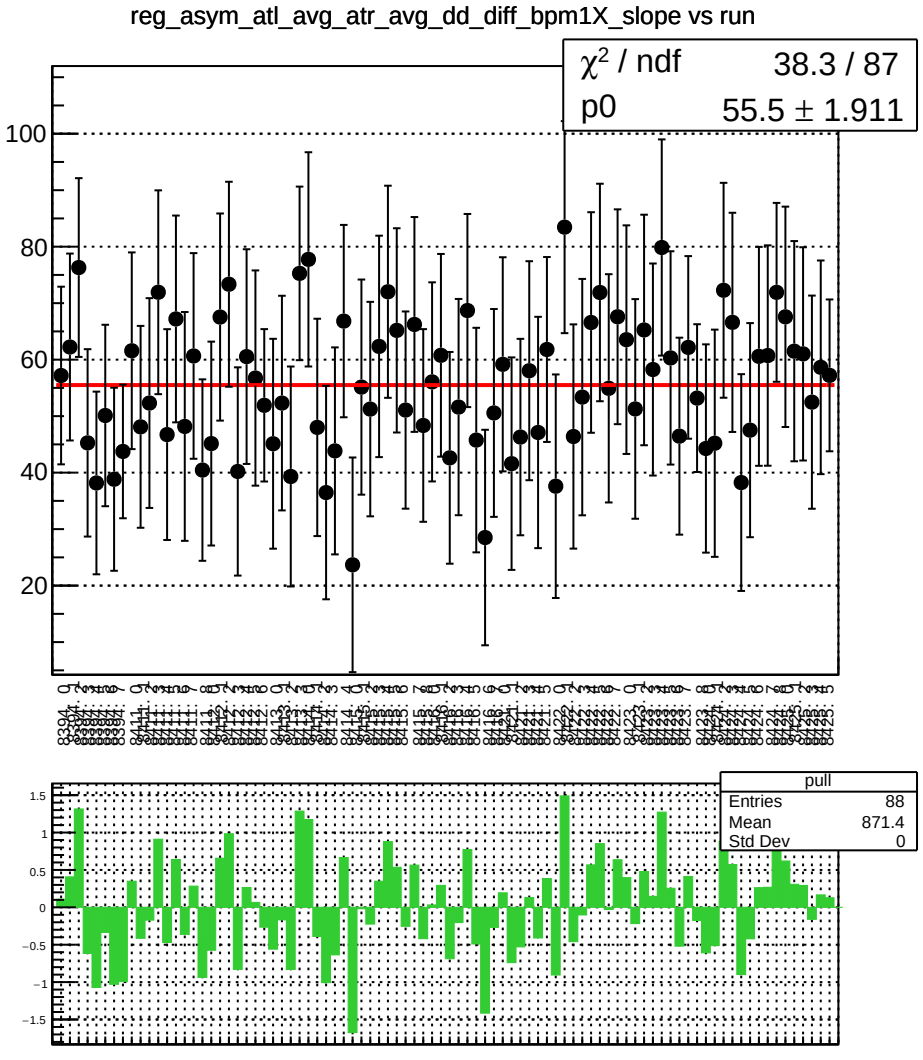

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 4.329 / 87
p0 −287.6 ± 6.627
−200
−250
−300
−350
−400
pull
Entries 88
Mean 398.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean −0.006848
Std Dev 0.2217
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

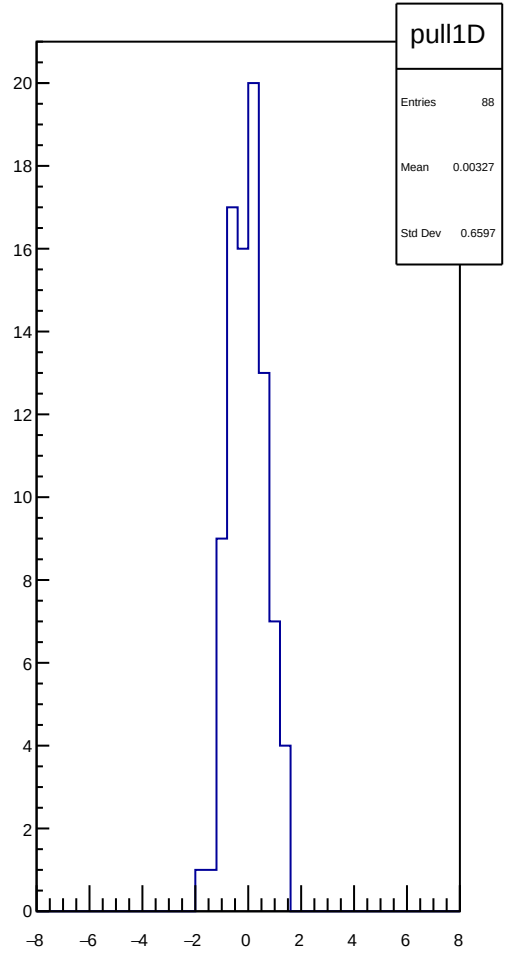

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.985 / 87
p0 40.45 ± 12.33
pull
Entries 88
Mean 266.7
Std Dev 0
pull1D
Entries 88
Mean −0.003639
Std Dev 0.1841

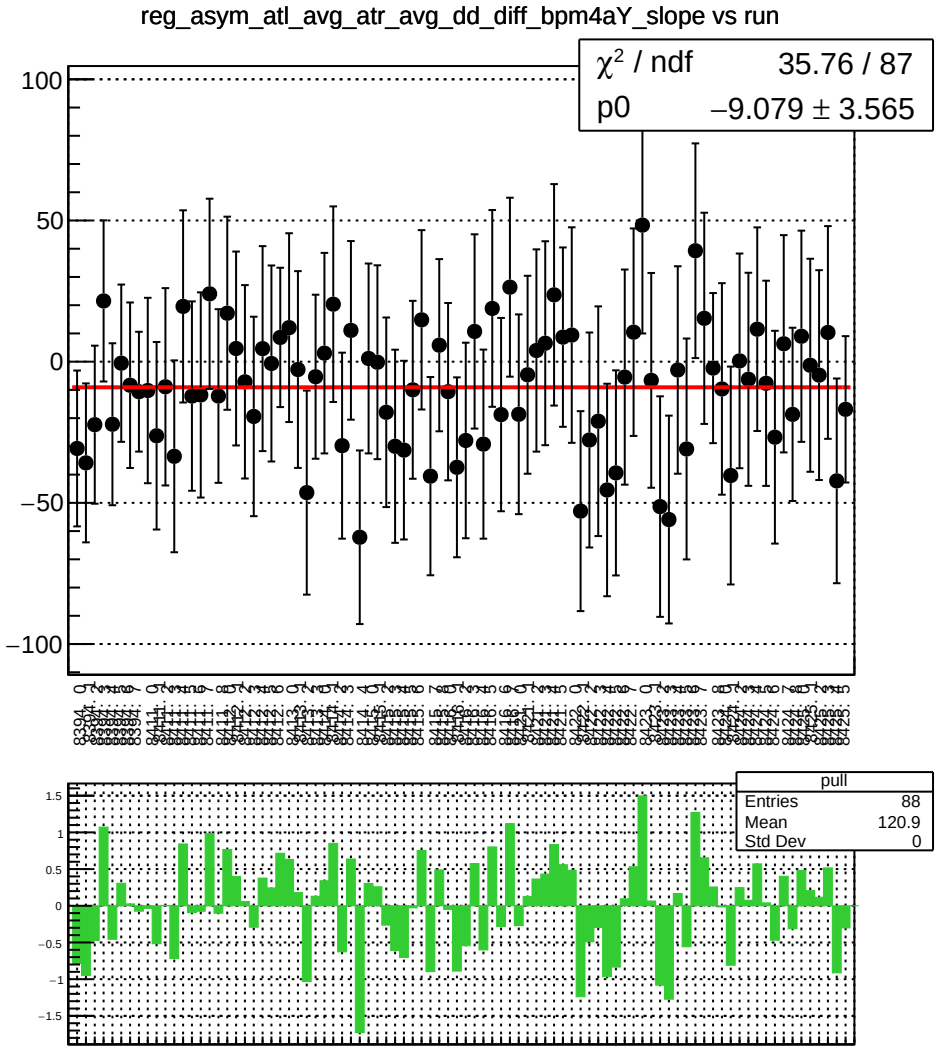

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.928 / 87
p0 252.6 ± 7.392
350
300
250
200
150
pull
Entries 88
Mean 391.1
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean 0.00604
Std Dev 0.2112
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

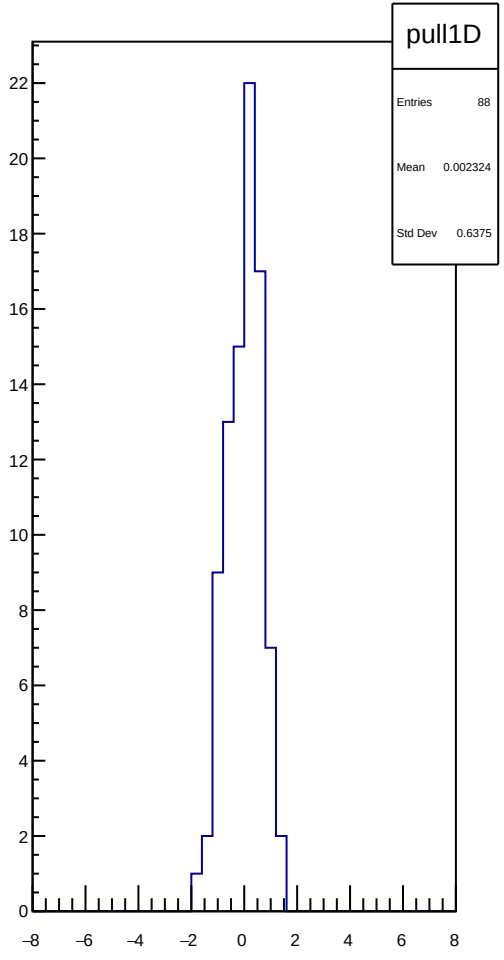

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.936 / 87
p0 24.81 ± 12.93
pull
Entries 88
Mean 266.2
Std Dev 0
pull1D
Entries 88
Mean 0.004837
Std Dev 0.1826

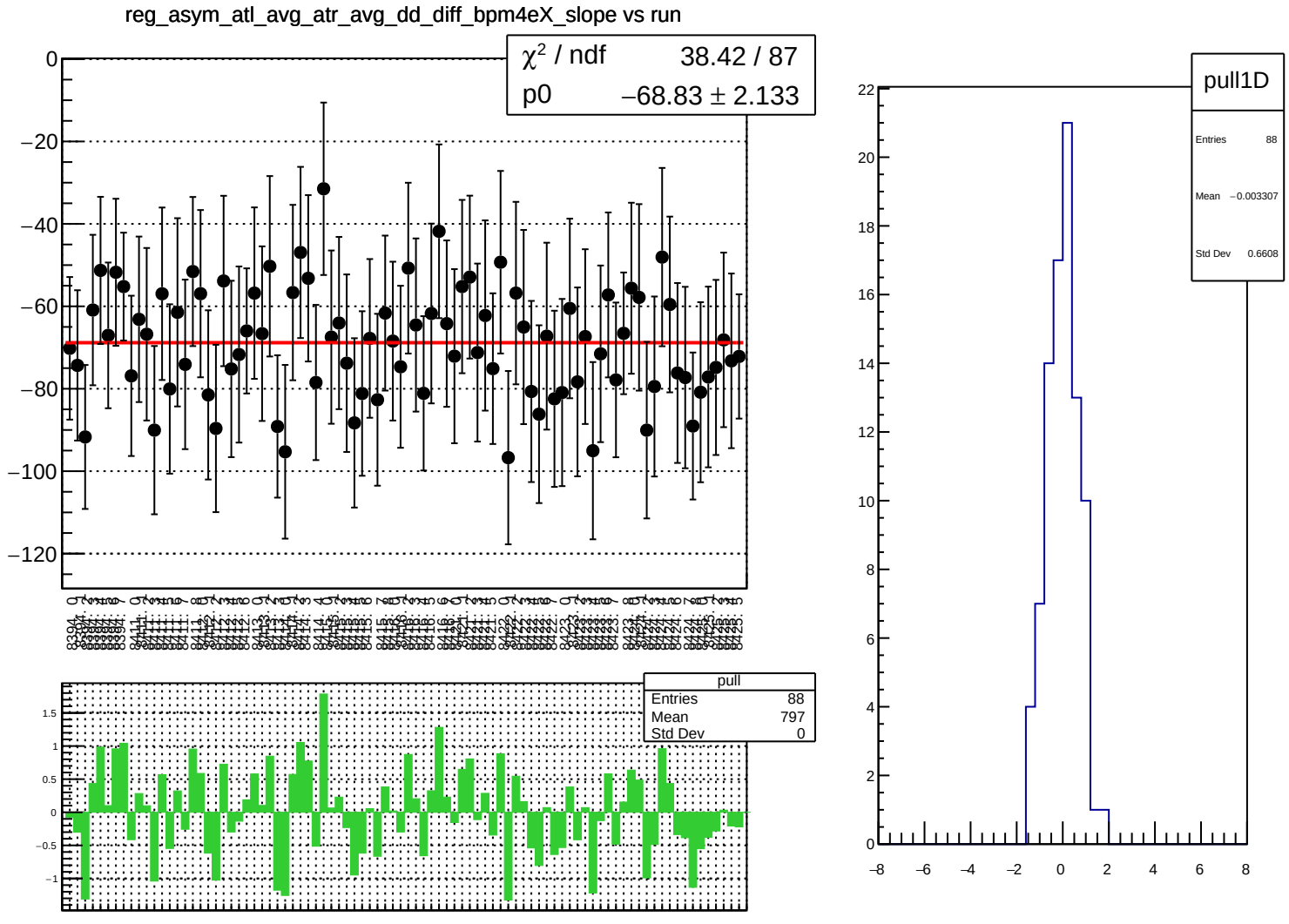

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 14.22 / 87
p0 −160.3 ± 0.7757
−145
−150
−155
−160
−165
−170
−175
pull
Entries 88
Mean 130.5
Std Dev 0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean −0.04089
Std Dev 0.3999
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

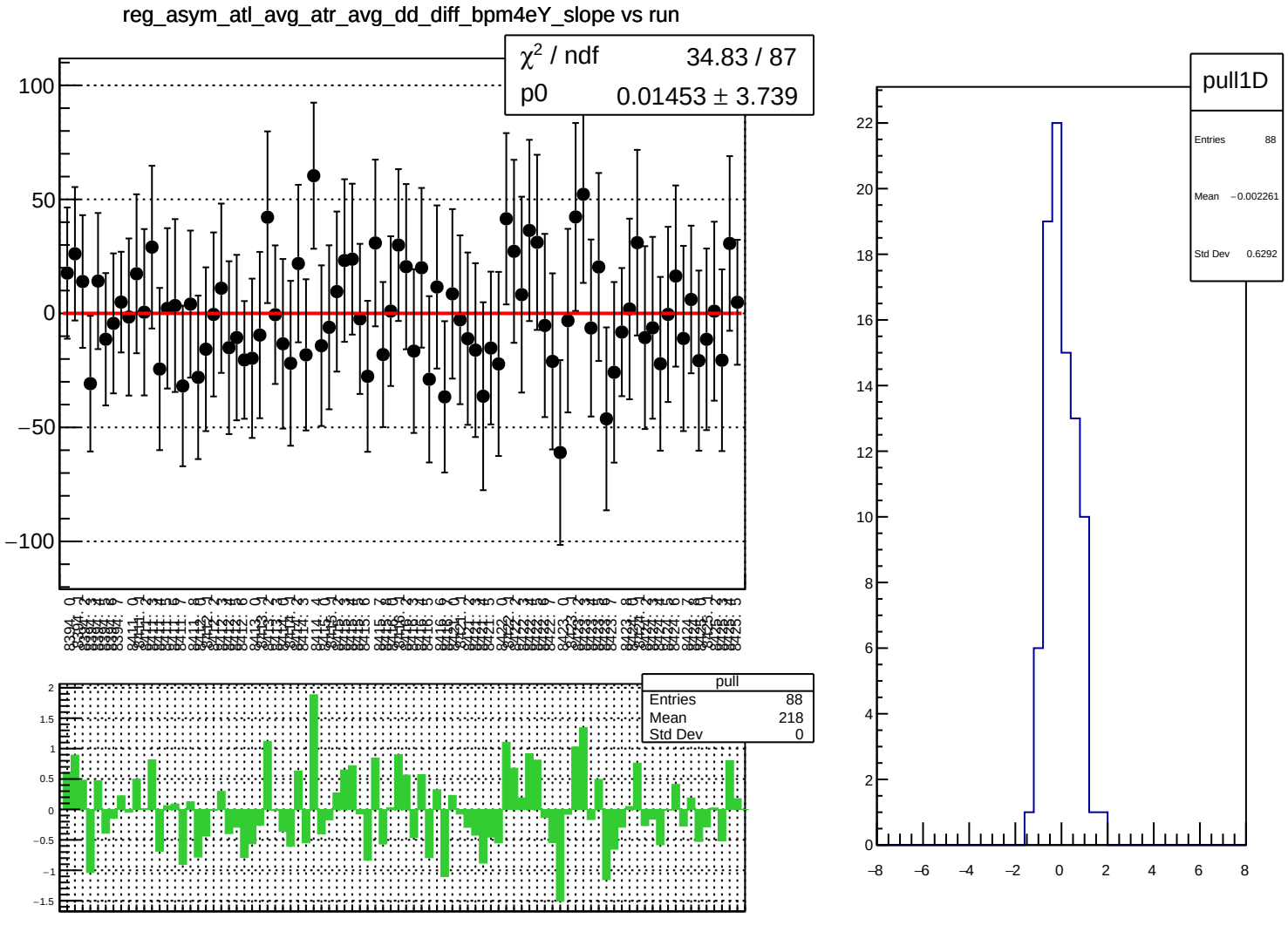

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 38.3 / 87
p0 55.5 ± 1.911
pull
Entries 88
Mean 871.4
Std Dev 0

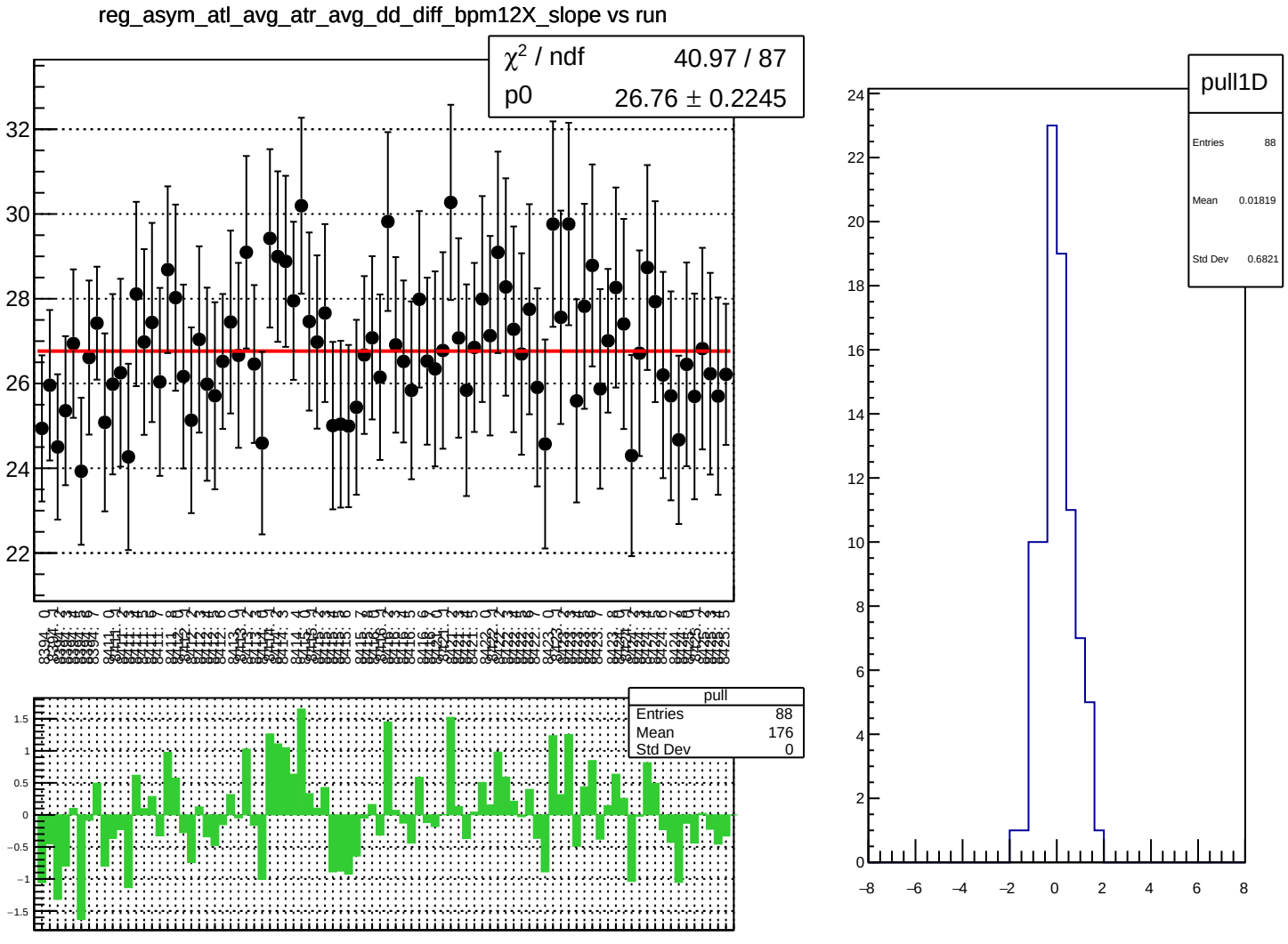

pull1D
Entries 88
Mean 0.00327
Std Dev 0.6597

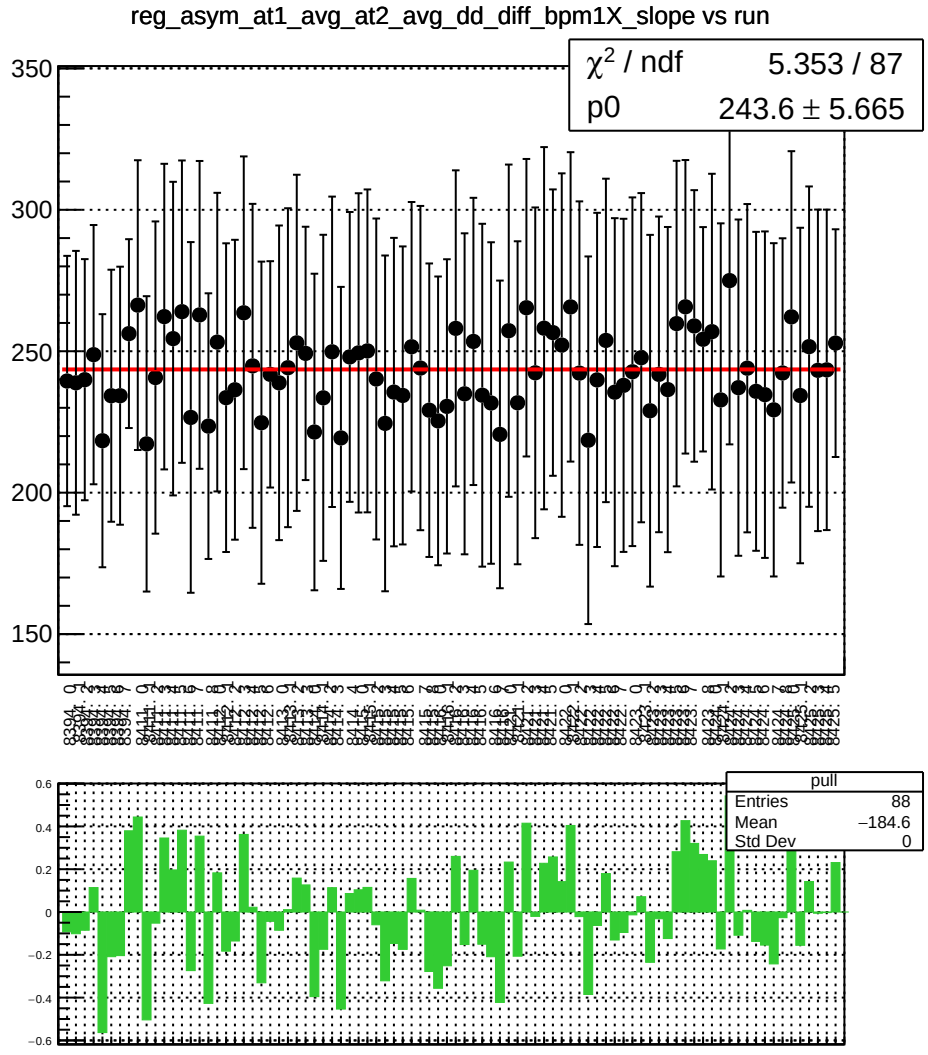

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 35.76 / 87
p0 −9.079 ± 3.565
100
50
0
−50
−100
pull
Entries 88
Mean 120.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

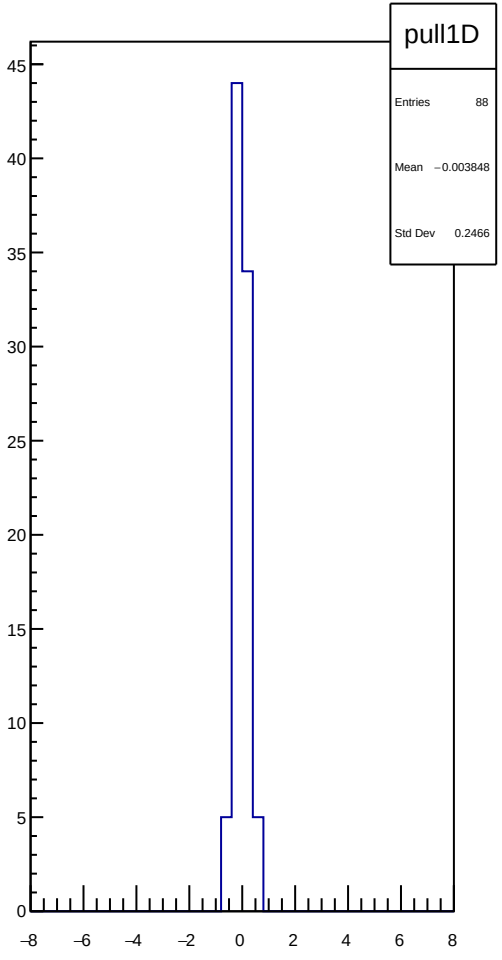

pull1D
Entries 88
Mean 0.002324
Std Dev 0.6375
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

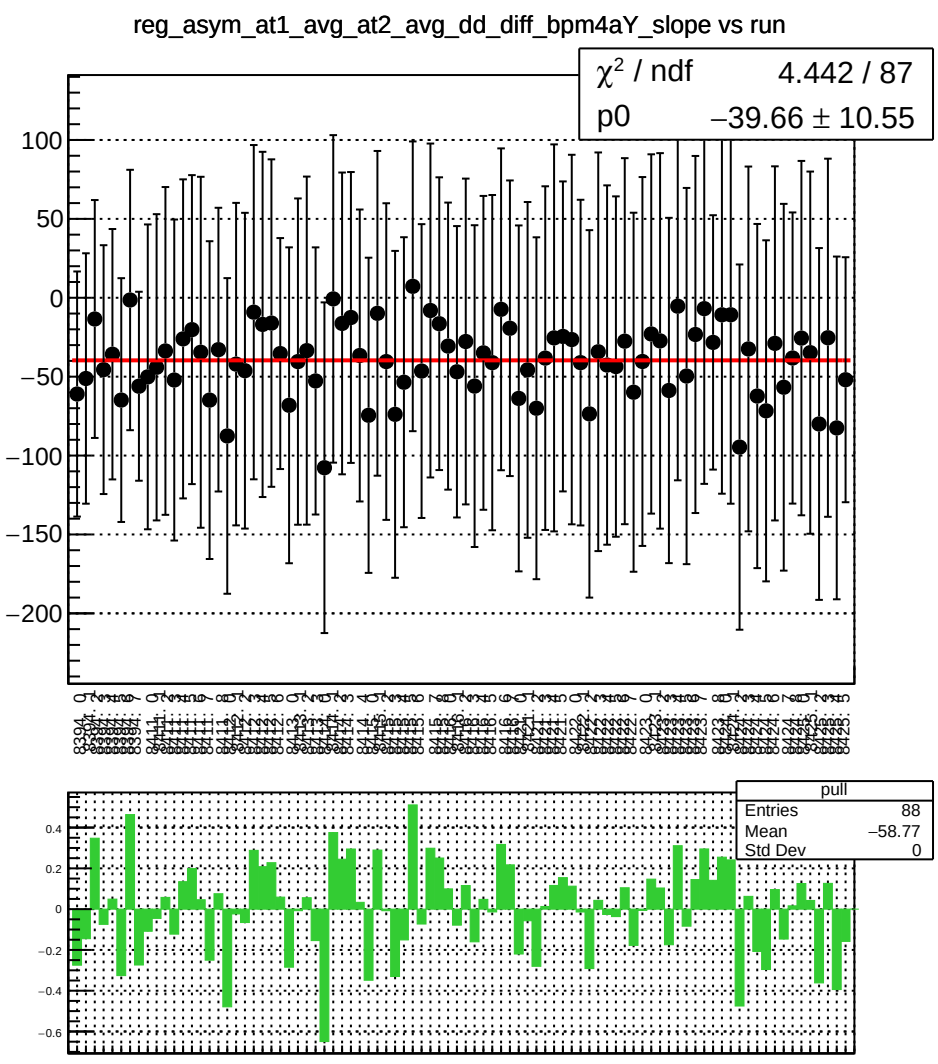

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 38.42 / 87
p0 −68.83 ± 2.133
pull
Entries 88
Mean 797
Std Dev 0
pull1D
Entries 88
Mean −0.003307
Std Dev 0.6608

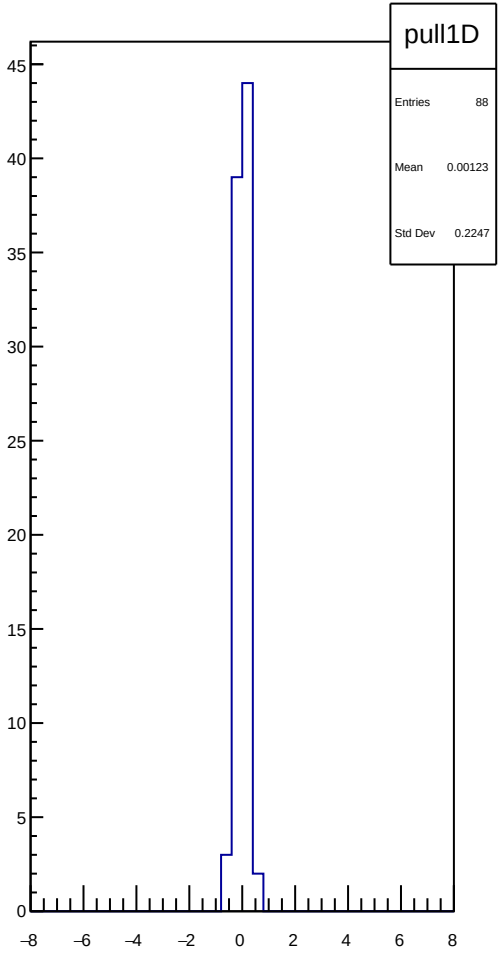

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 34.83 / 87
p0 0.01453 ± 3.739
pull
Entries 88
Mean 218
Std Dev 0
pull1D
Entries 88
Mean −0.002261
Std Dev 0.6292

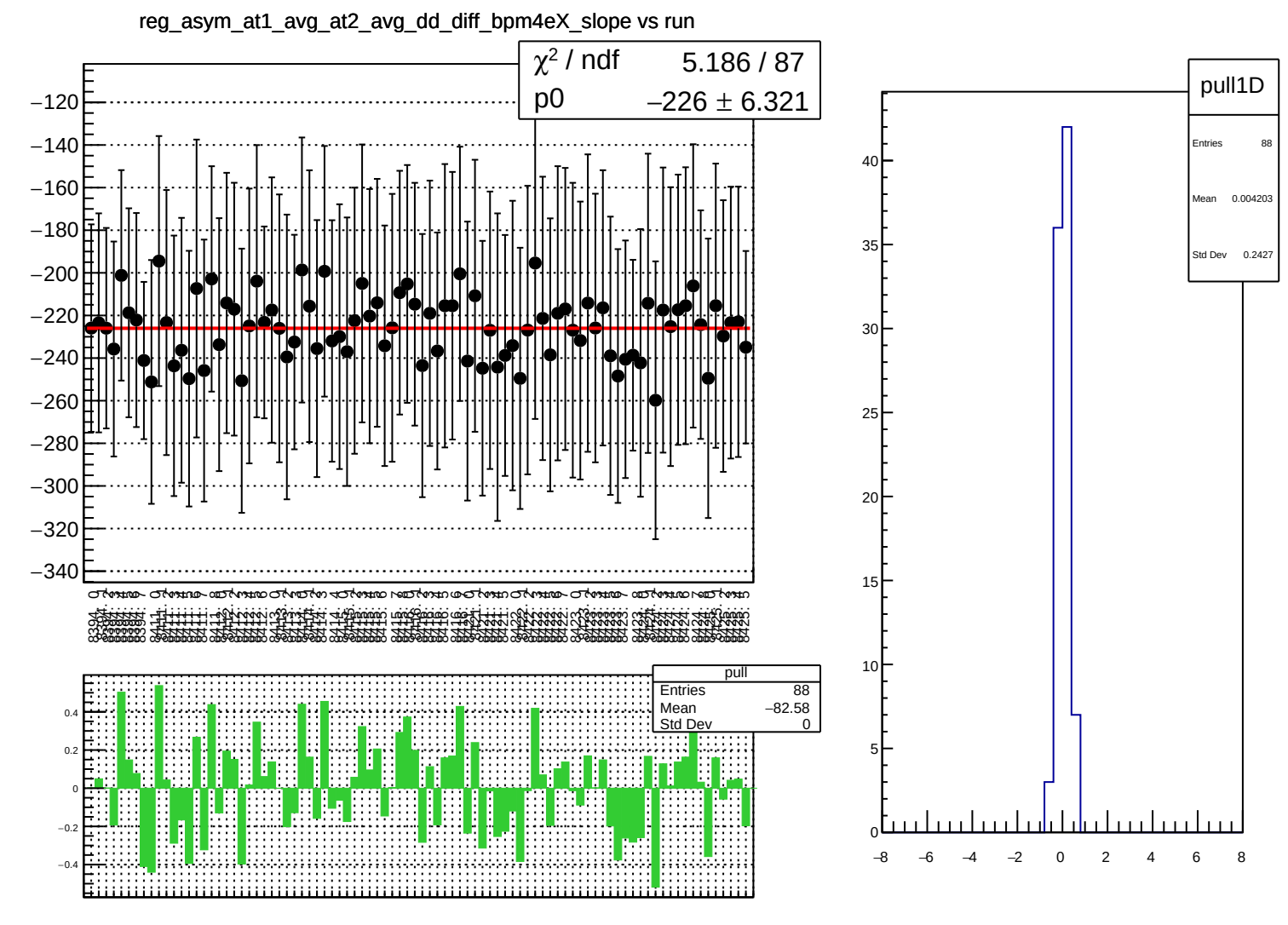

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 40.97 / 87
p0 26.76 ± 0.2245
pull
Entries 88
Mean 176
Std Dev 0
pull1D
Entries 88
Mean 0.01819
Std Dev 0.6821

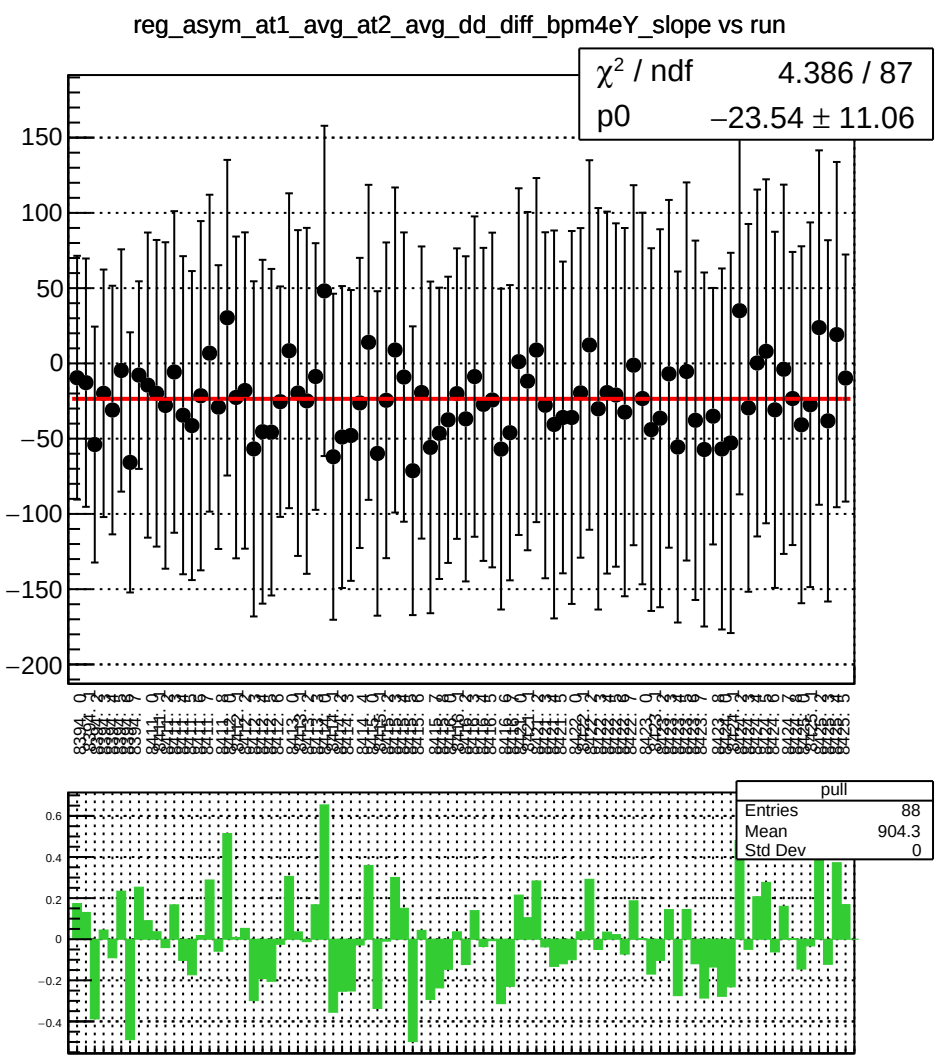

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ^2 / ndf 5.353 / 87
p0 243.6 ± 5.665
350
300
250
200
150
pull
Entries 88
Mean −184.6
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

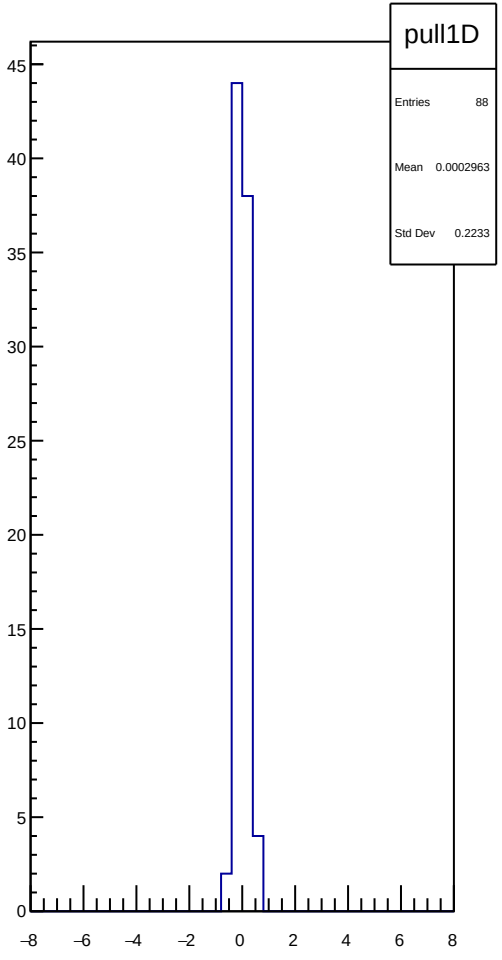

pull1D
Entries 88
Mean −0.003848
Std Dev 0.2466
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

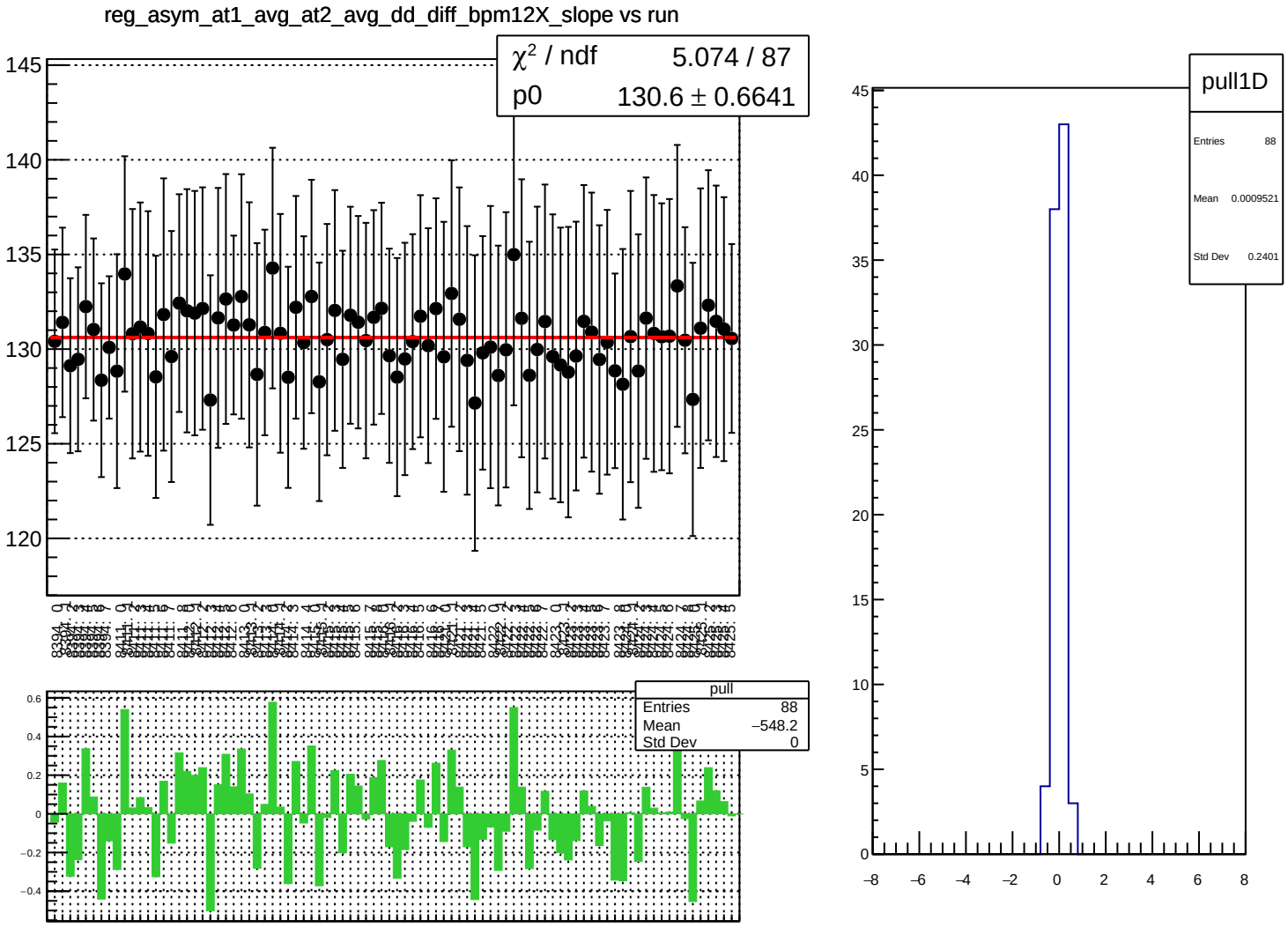

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.442 / 87
p0 −39.66 ± 10.55
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −58.77
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

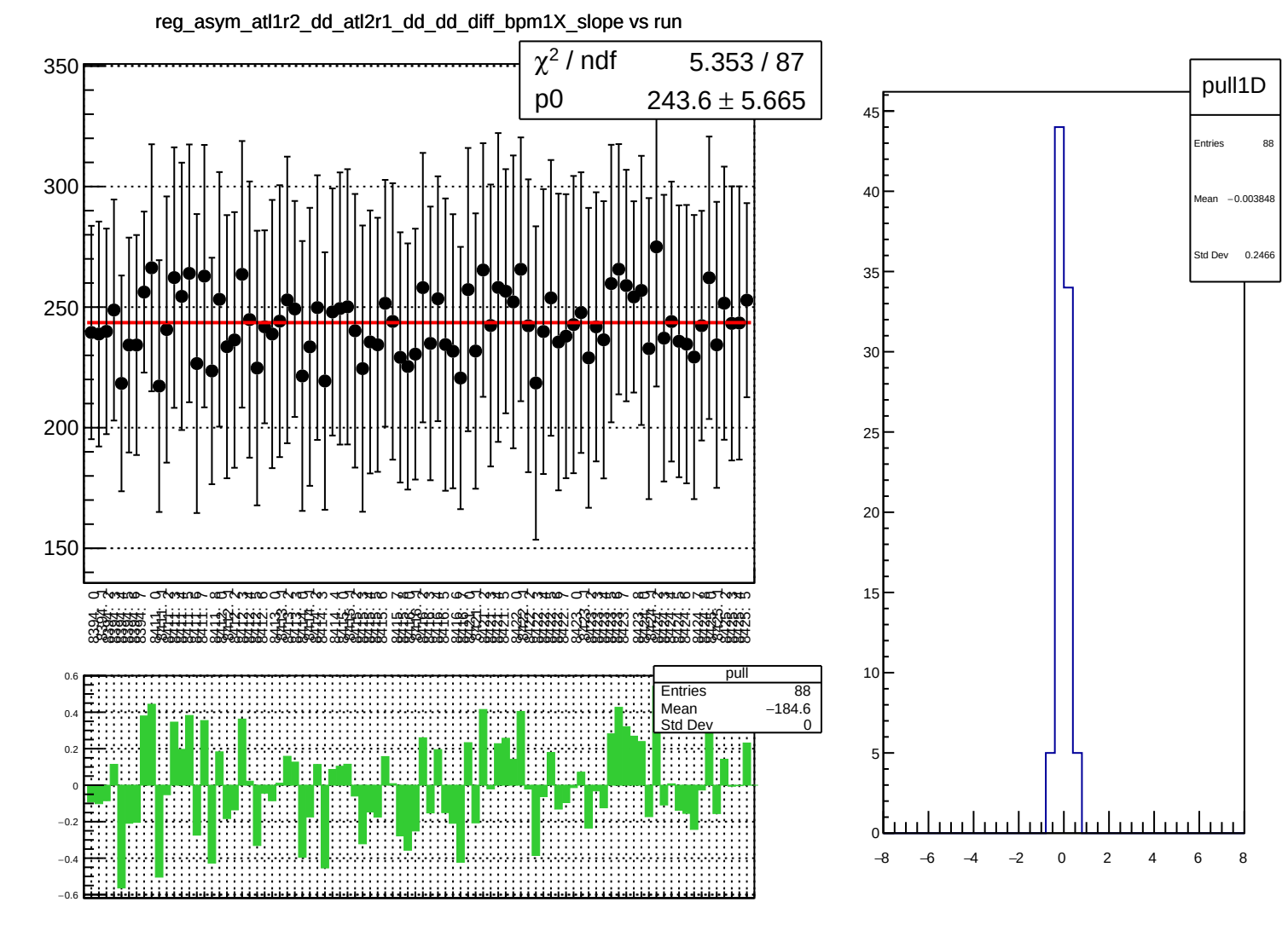

pull1D
Entries 88
Mean 0.00123
Std Dev 0.2247
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

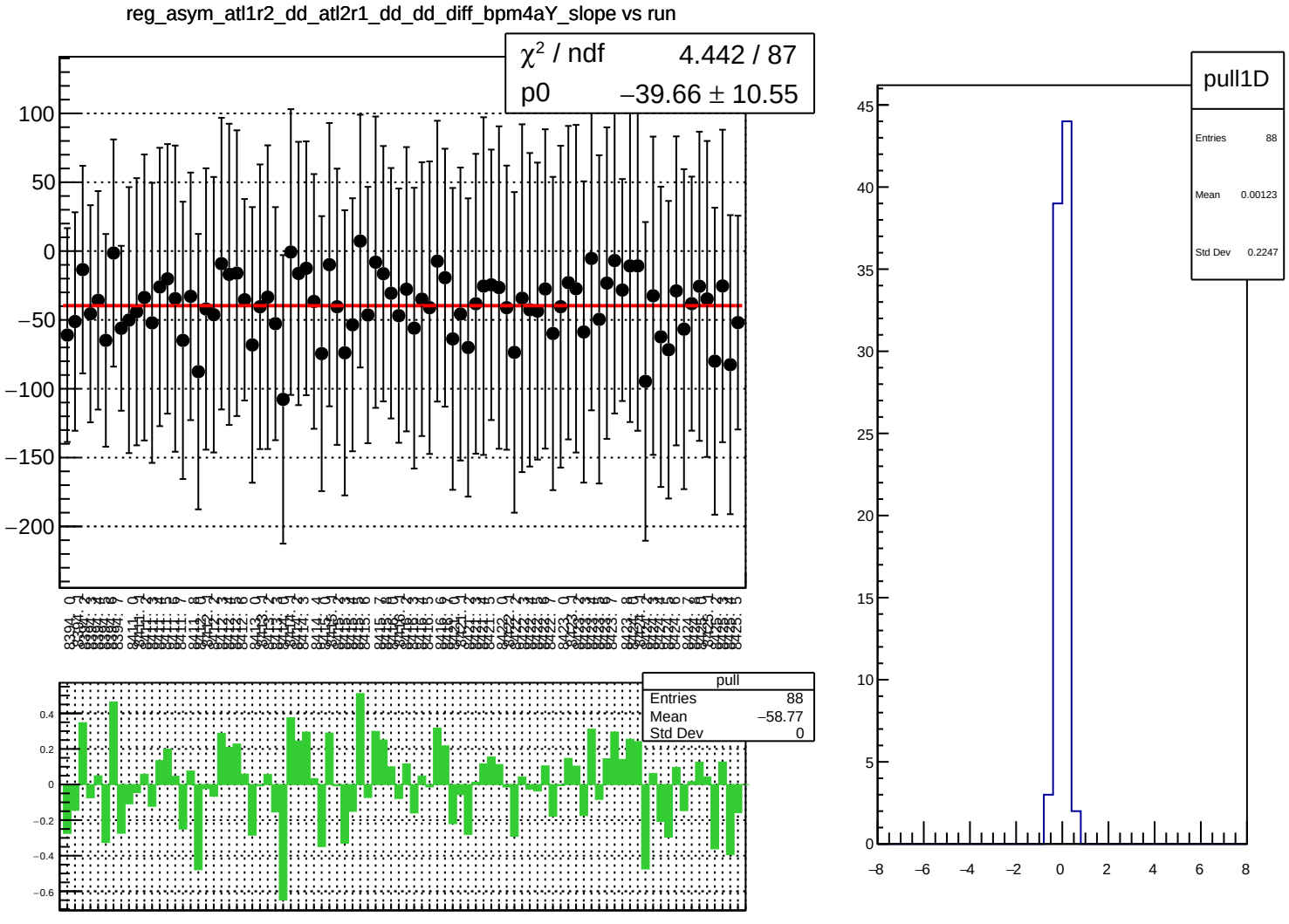

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.186 / 87
p0 −226 ± 6.321
pull
Entries 88
Mean −82.58
Std Dev 0
pull1D
Entries 88
Mean 0.004203
Std Dev 0.2427

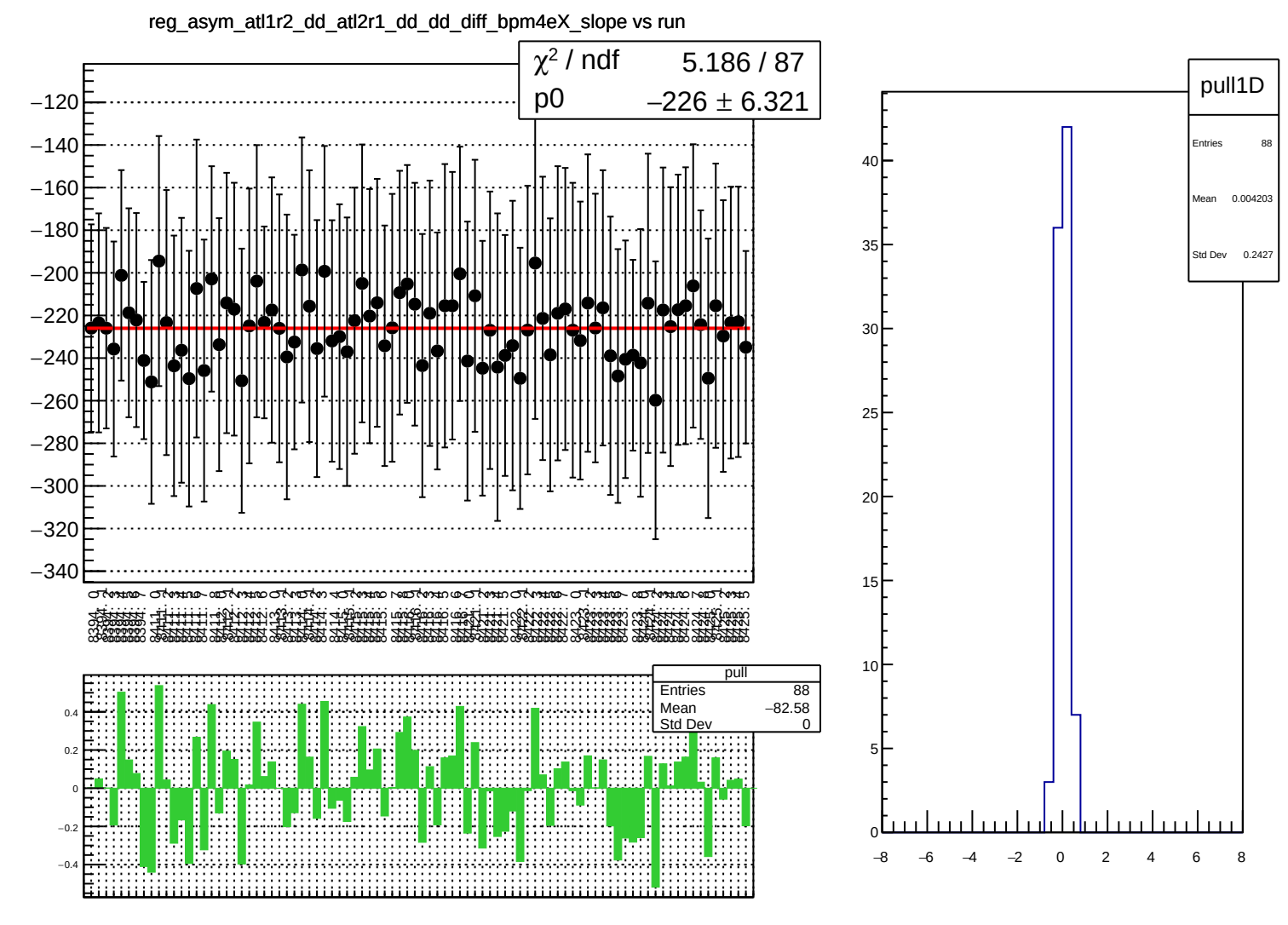

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.386 / 87
p0 −23.54 ± 11.06
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 904.3
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

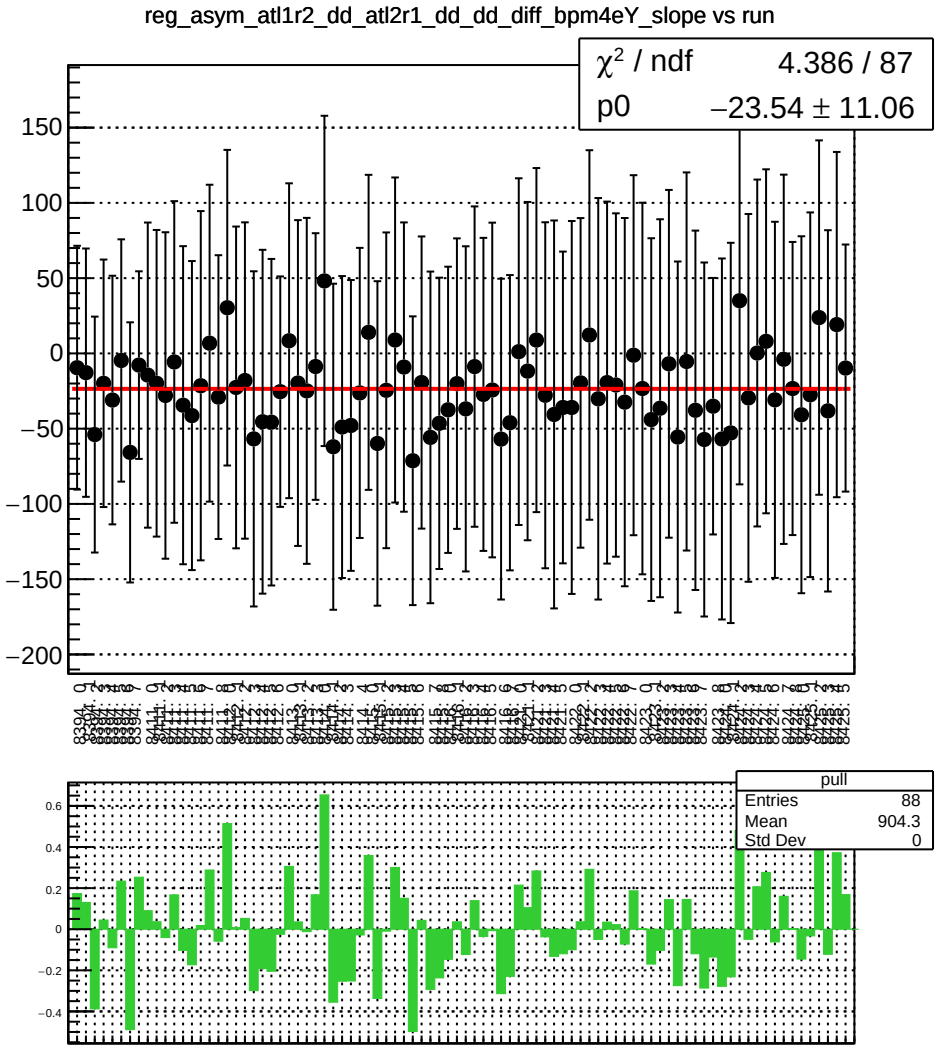

pull1D
Entries 88
Mean 0.0002963
Std Dev 0.2233
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

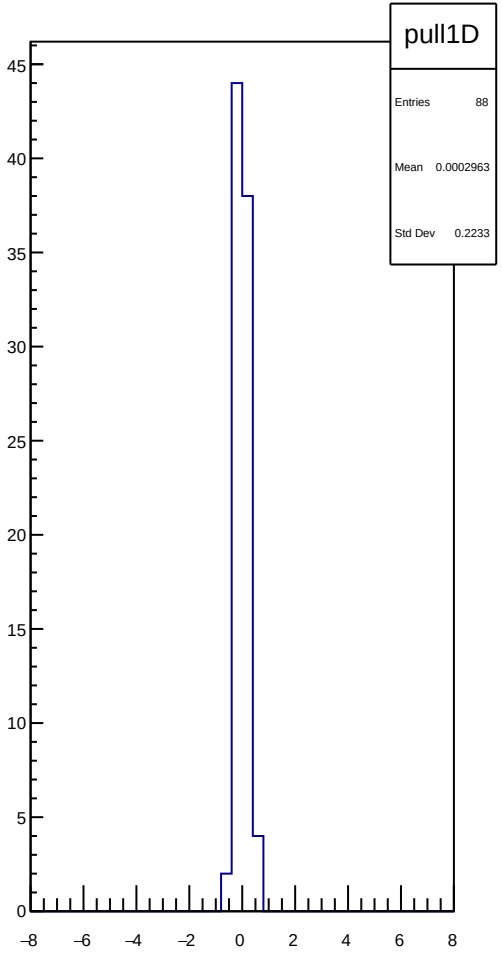

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 5.074 / 87
p0 130.6 ± 0.6641
145
140
135
130
125
120
pull
Entries 88
Mean −548.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 88
Mean 0.0009521
Std Dev 0.2401
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

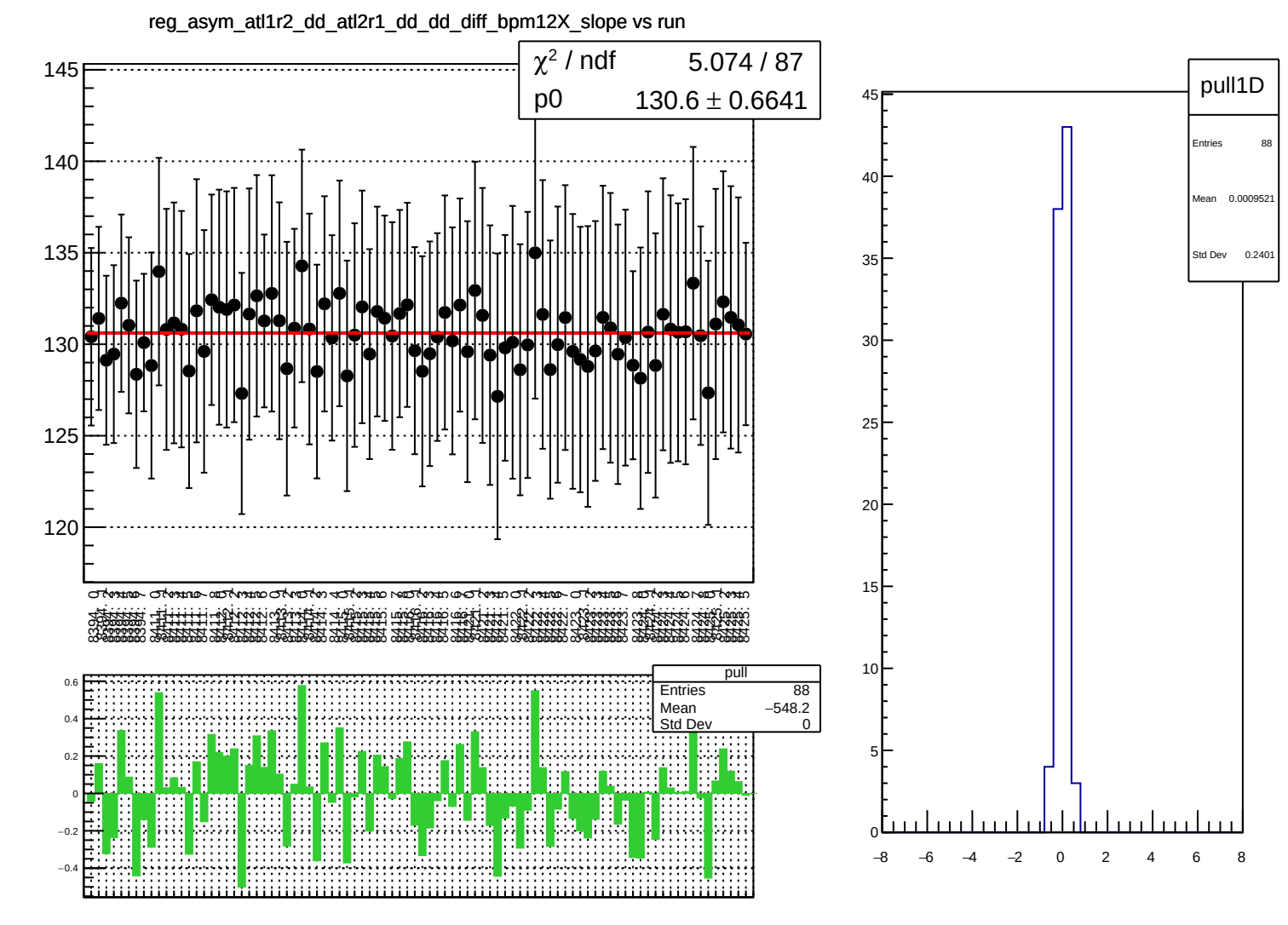

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 5.353 / 87
p0 243.6 ± 5.665
350
300
250
200
150
pull
Entries 88
Mean −184.6
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean −0.003848
Std Dev 0.2466
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

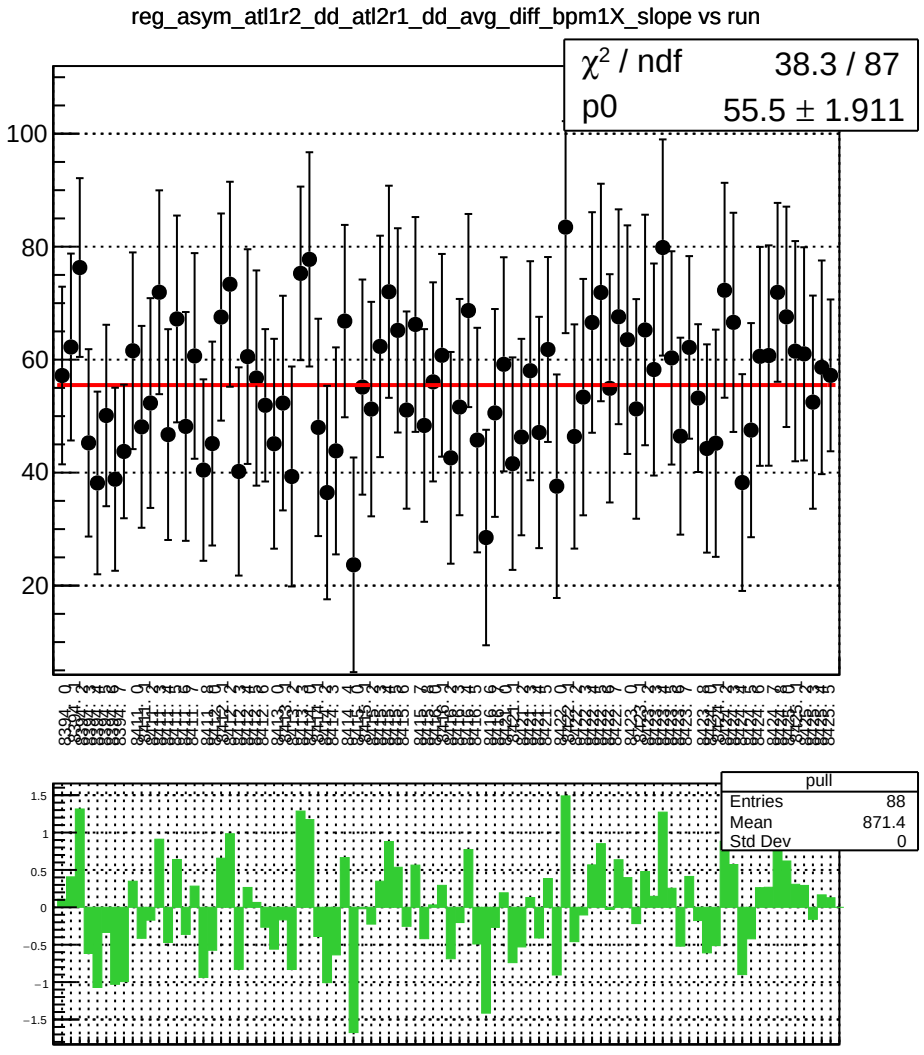

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.442 / 87
p0 −39.66 ± 10.55
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −58.77
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean 0.00123
Std Dev 0.2247
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

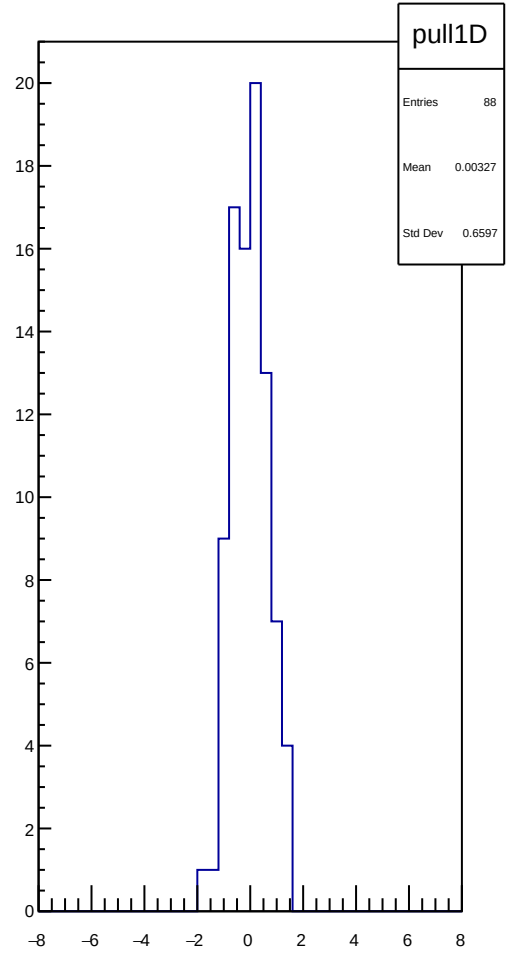

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.186 / 87
p0 −226 ± 6.321
pull
Entries 88
Mean −82.58
Std Dev 0
pull1D
Entries 88
Mean 0.004203
Std Dev 0.2427

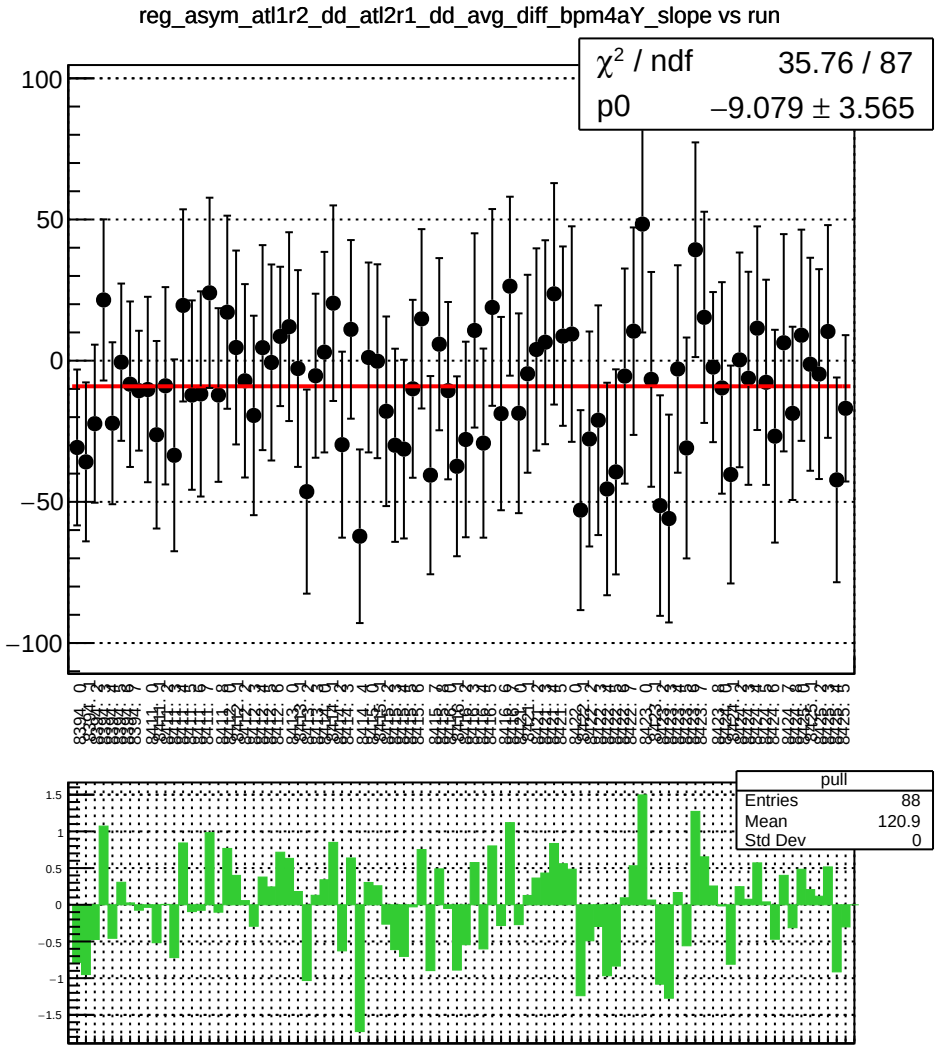

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.386 / 87
p0 −23.54 ± 11.06
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 904.3
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

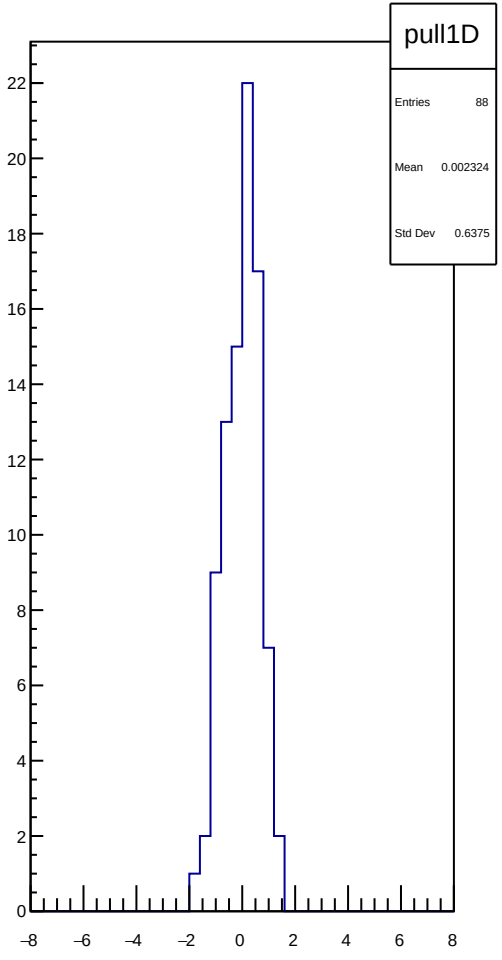

pull1D
Entries 88
Mean 0.0002963
Std Dev 0.2233
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

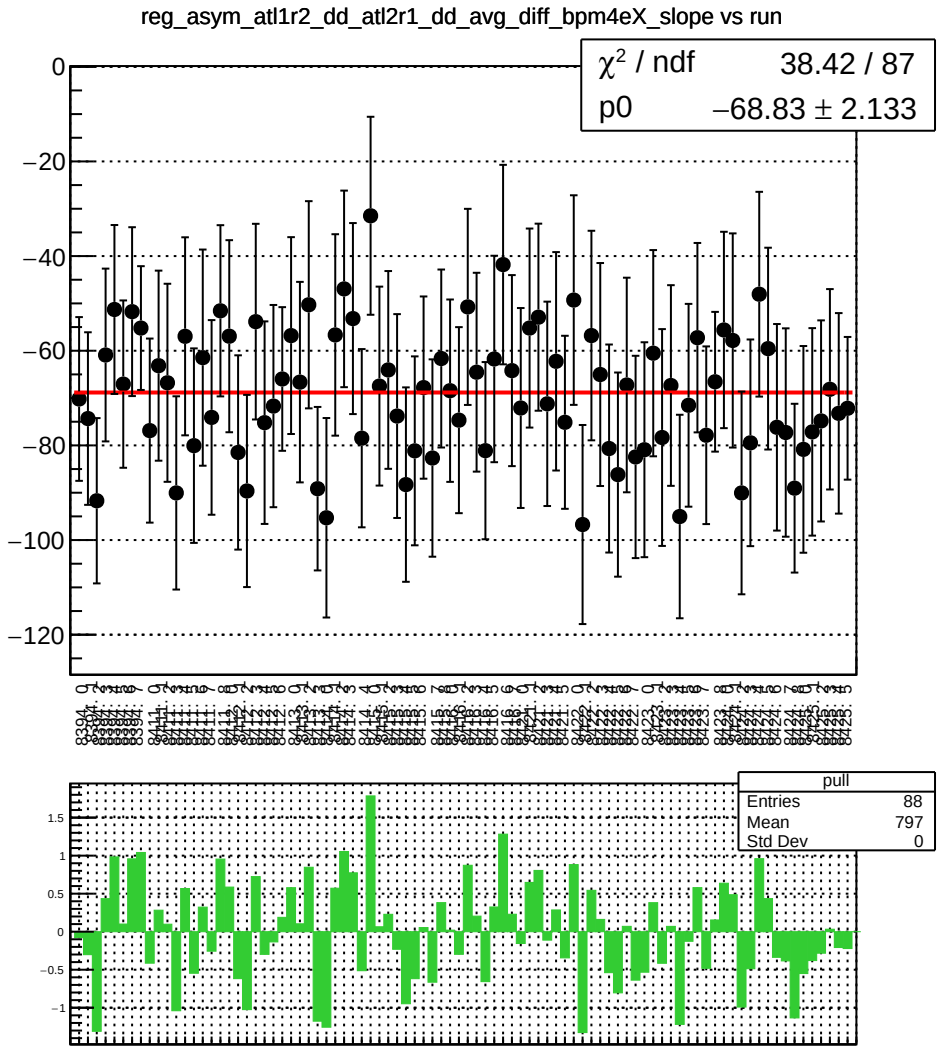

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ^2 / ndf 5.074 / 87
p0 130.6 ± 0.6641
145
140
135
130
125
120
pull
Entries 88
Mean −548.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 88
Mean 0.0009521
Std Dev 0.2401
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

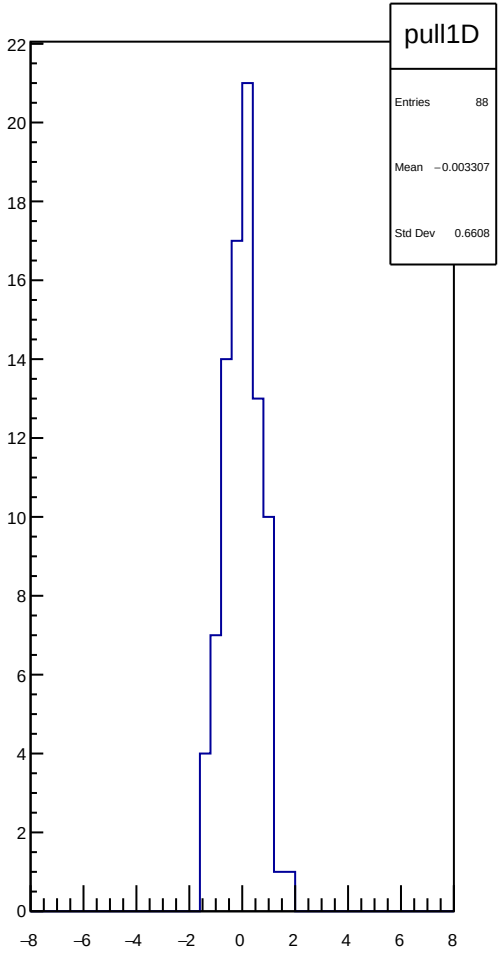

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 38.3 / 87
p0 55.5 ± 1.911
pull
Entries 88
Mean 871.4
Std Dev 0

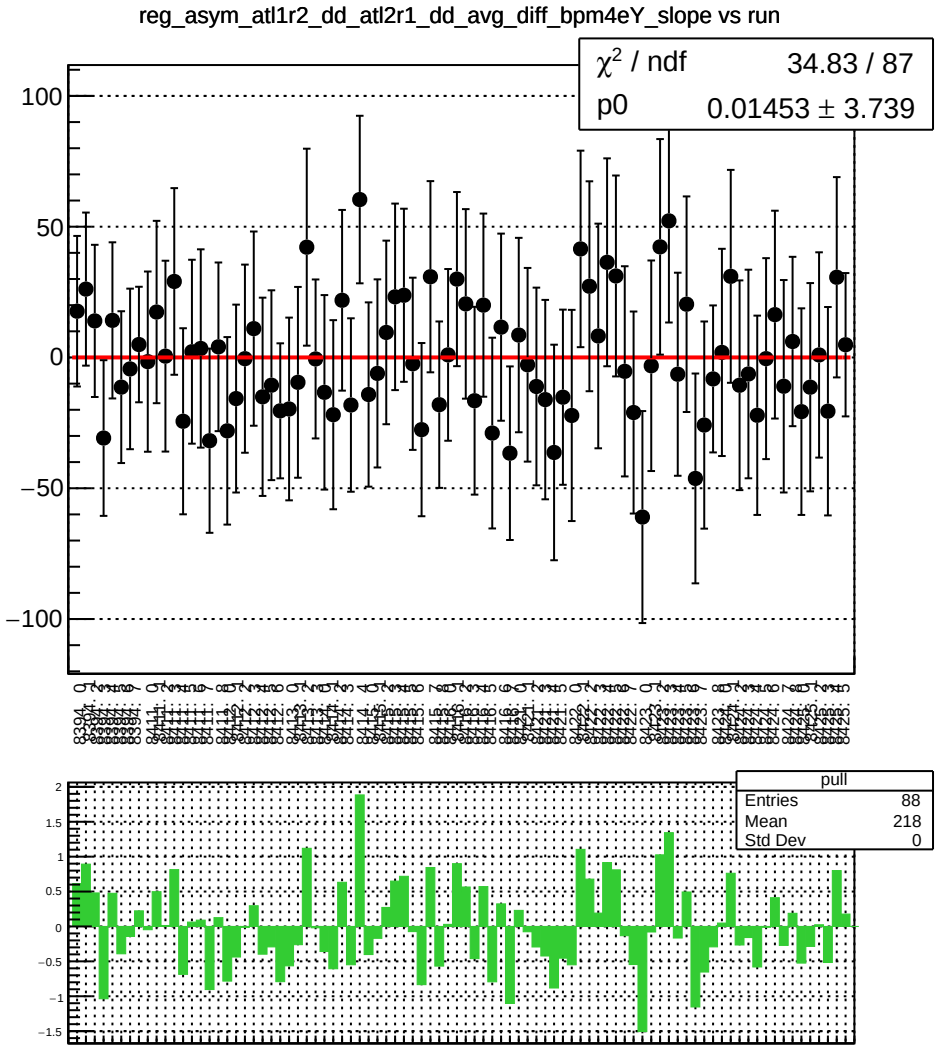

pull1D
Entries 88
Mean 0.00327
Std Dev 0.6597

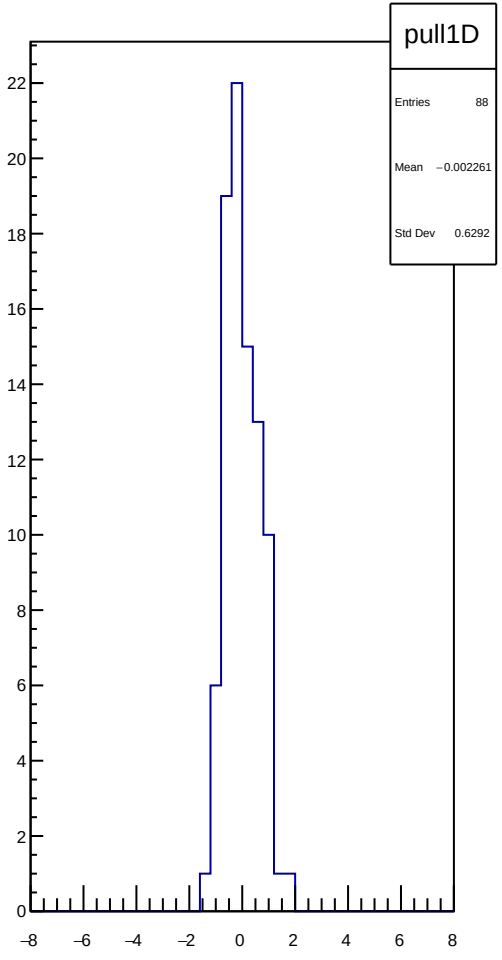

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 35.76 / 87
p0 −9.079 ± 3.565
pull
Entries 88
Mean 120.9
Std Dev 0

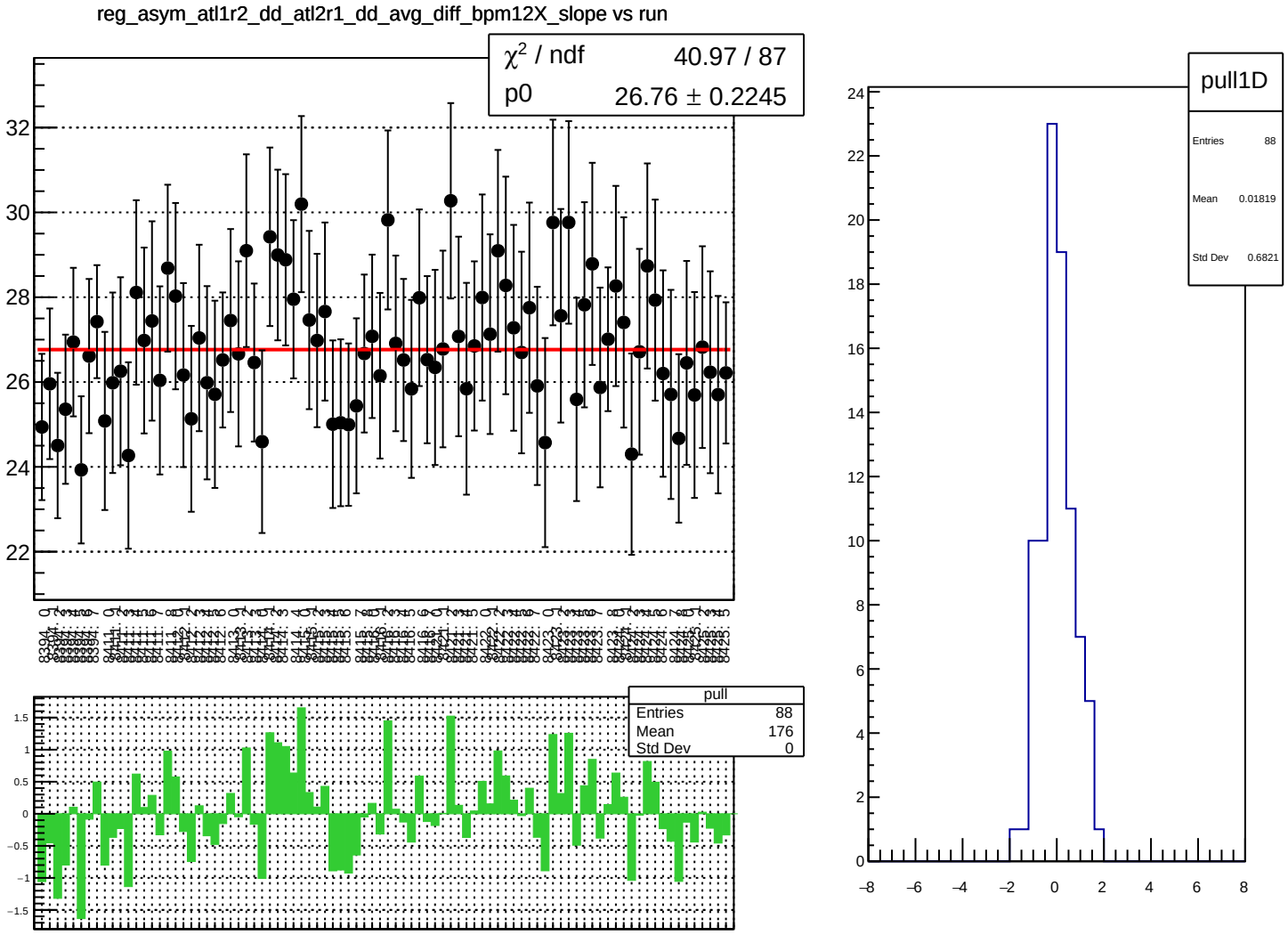

pull1D
Entries 88
Mean 0.002324
Std Dev 0.6375

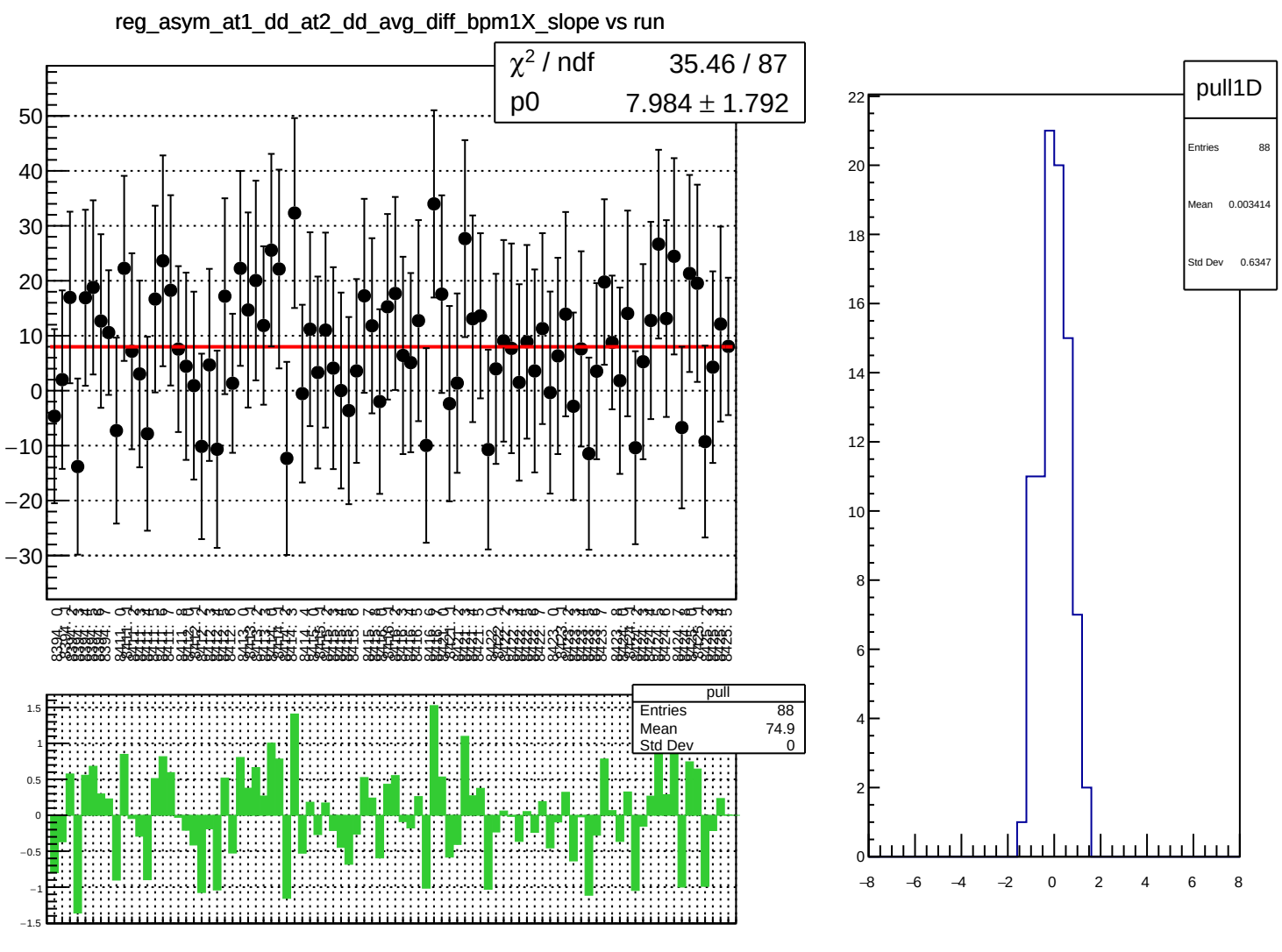

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 38.42 / 87
p0 −68.83 ± 2.133
pull
Entries 88
Mean 797
Std Dev 0

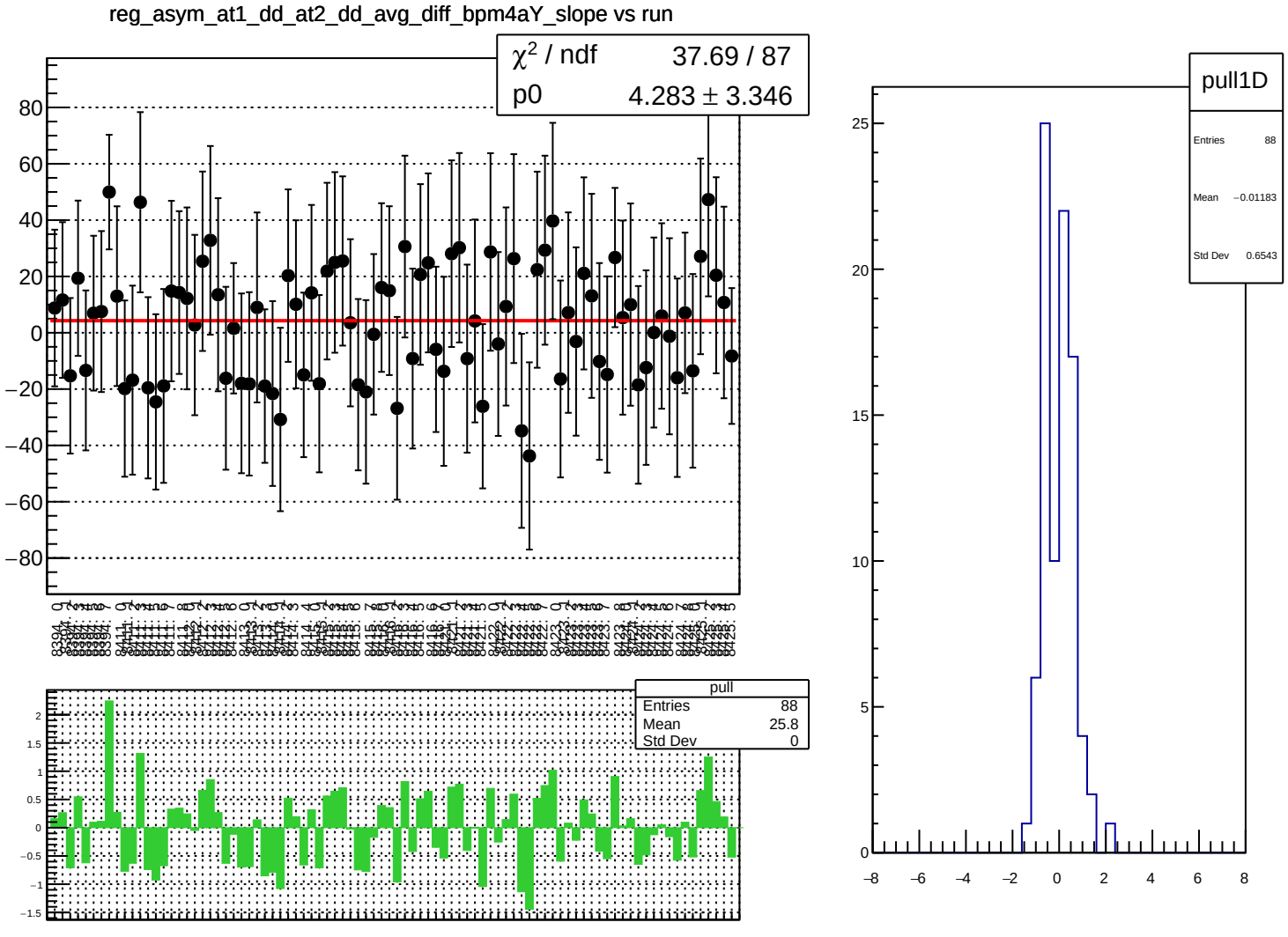

pull1D
Entries 88
Mean −0.003307
Std Dev 0.6608

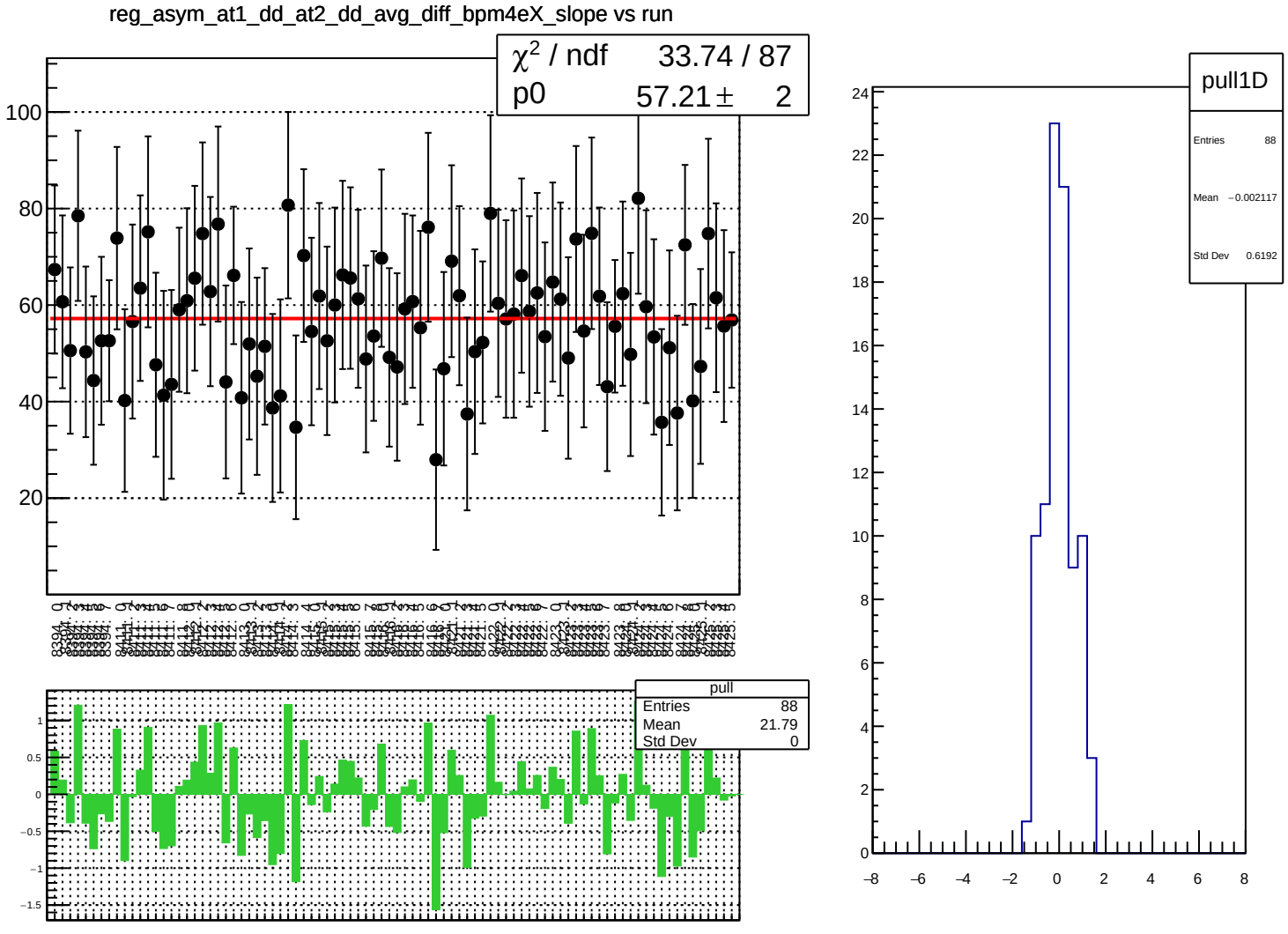

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 34.83 / 87
p0 0.01453 ± 3.739
pull
Entries 88
Mean 218
Std Dev 0

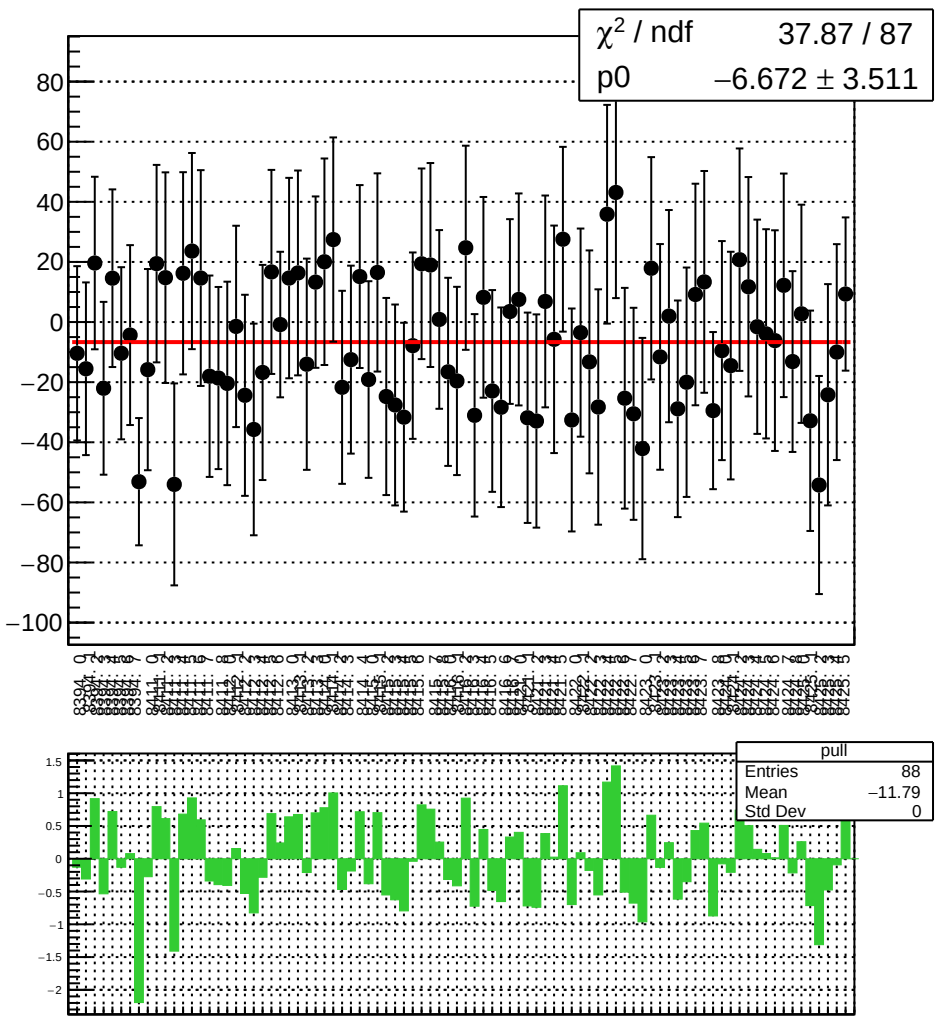

pull1D
Entries 88
Mean −0.002261
Std Dev 0.6292

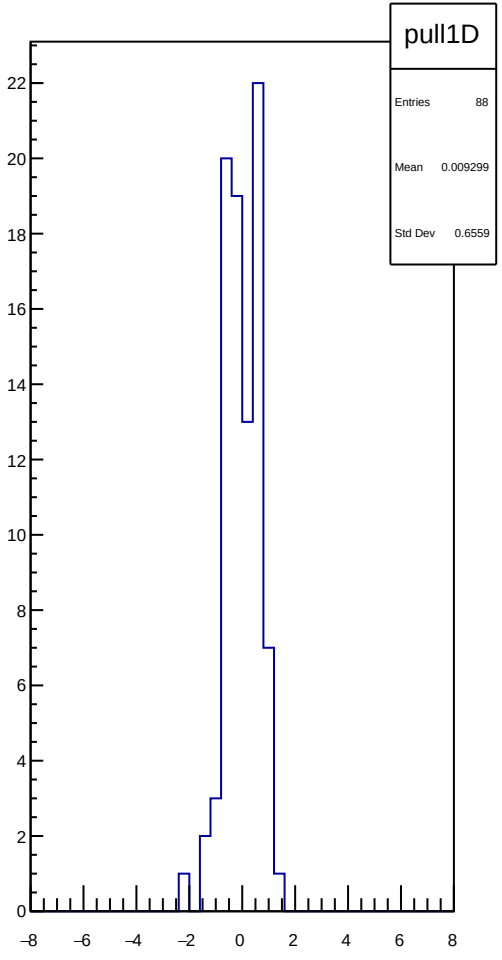

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 40.97 / 87
p0 26.76 ± 0.2245
pull
Entries 88
Mean 176
Std Dev 0
pull1D
Entries 88
Mean 0.01819
Std Dev 0.6821

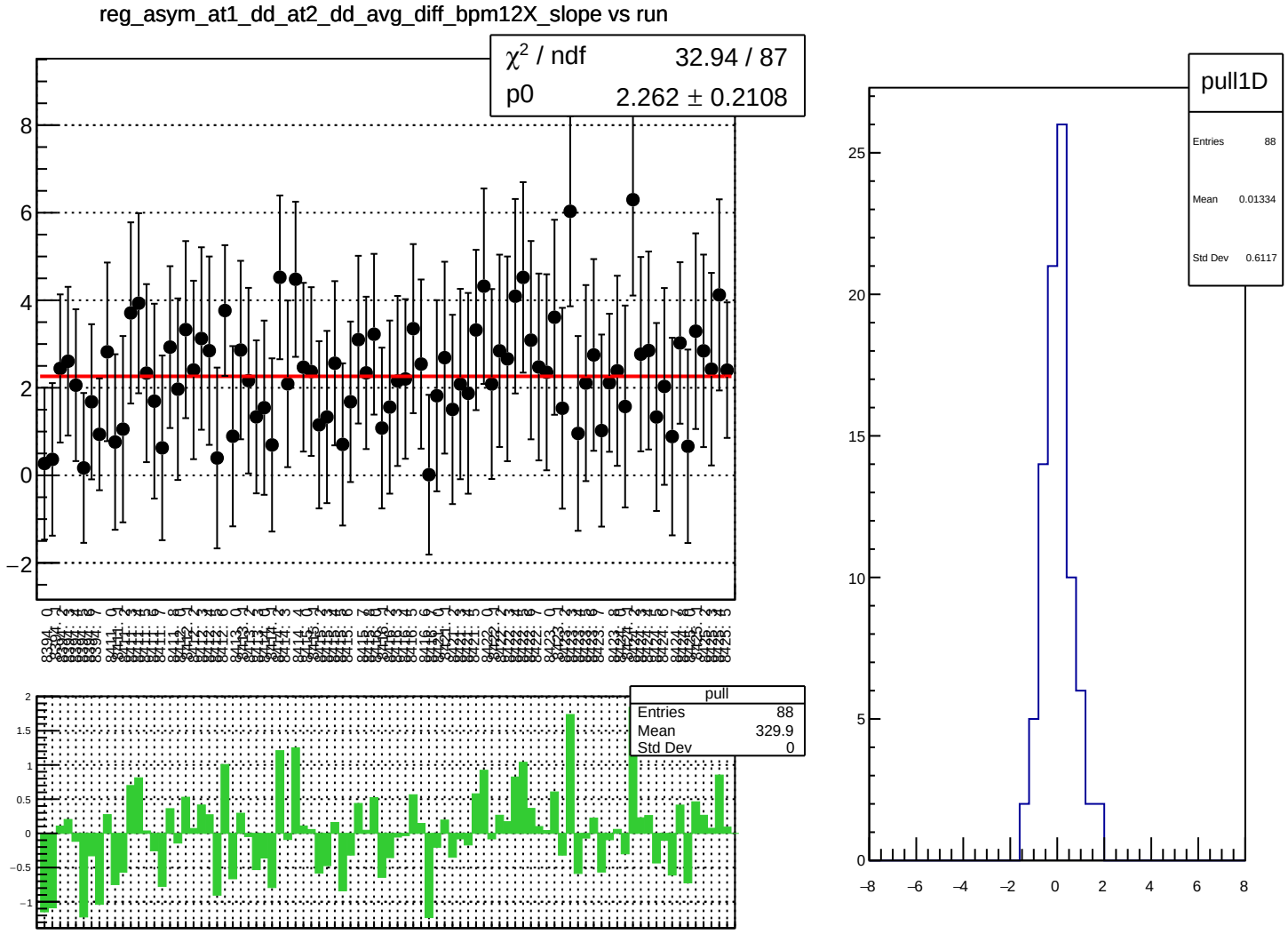

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 35.46 / 87
p0 7.984 ± 1.792
pull
Entries 88
Mean 74.9
Std Dev 0
pull1D
Entries 88
Mean 0.003414
Std Dev 0.6347

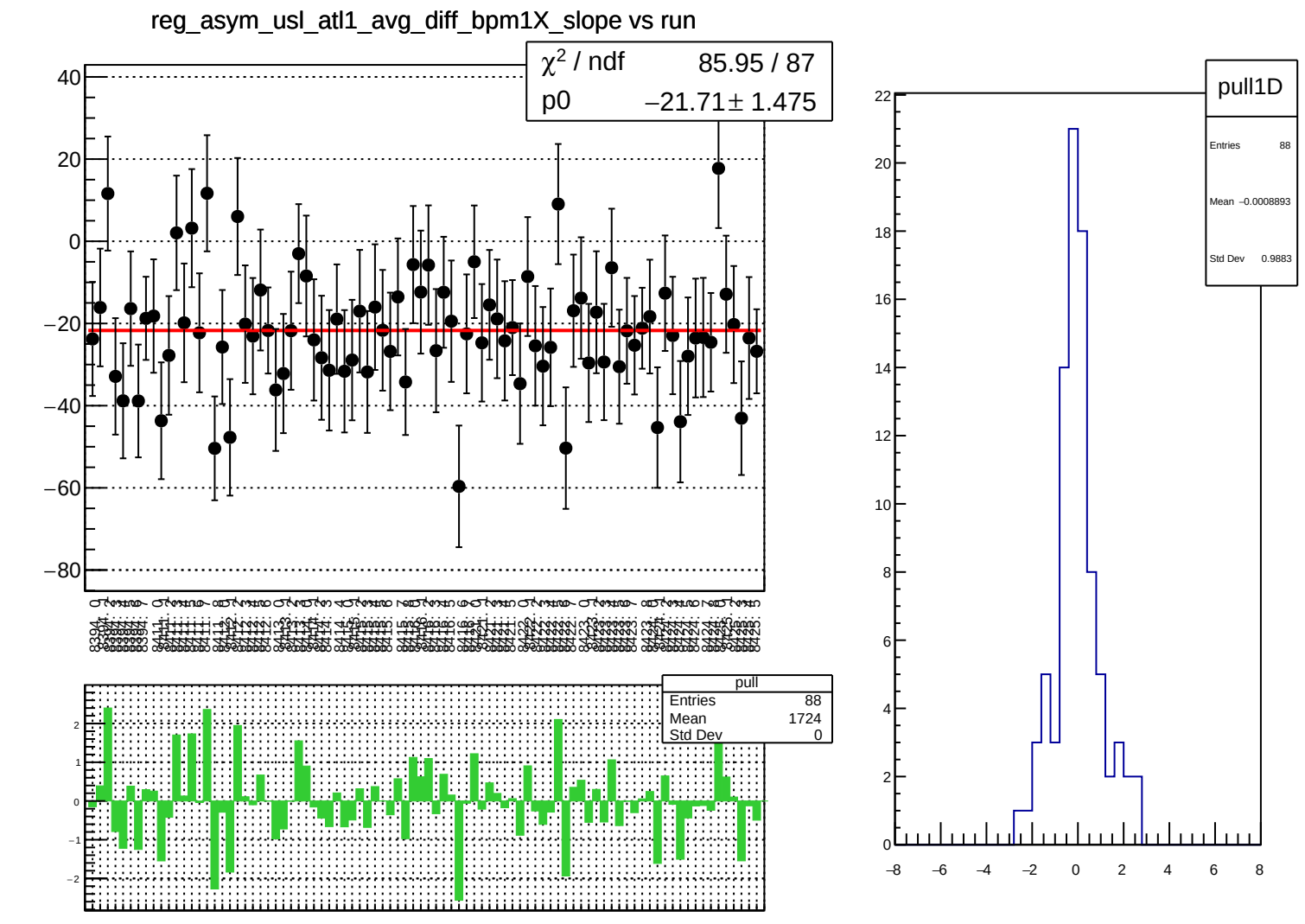

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 37.69 / 87
p0 4.283 ± 3.346
pull
Entries 88
Mean 25.8
Std Dev 0
pull1D
Entries 88
Mean −0.01183
Std Dev 0.6543

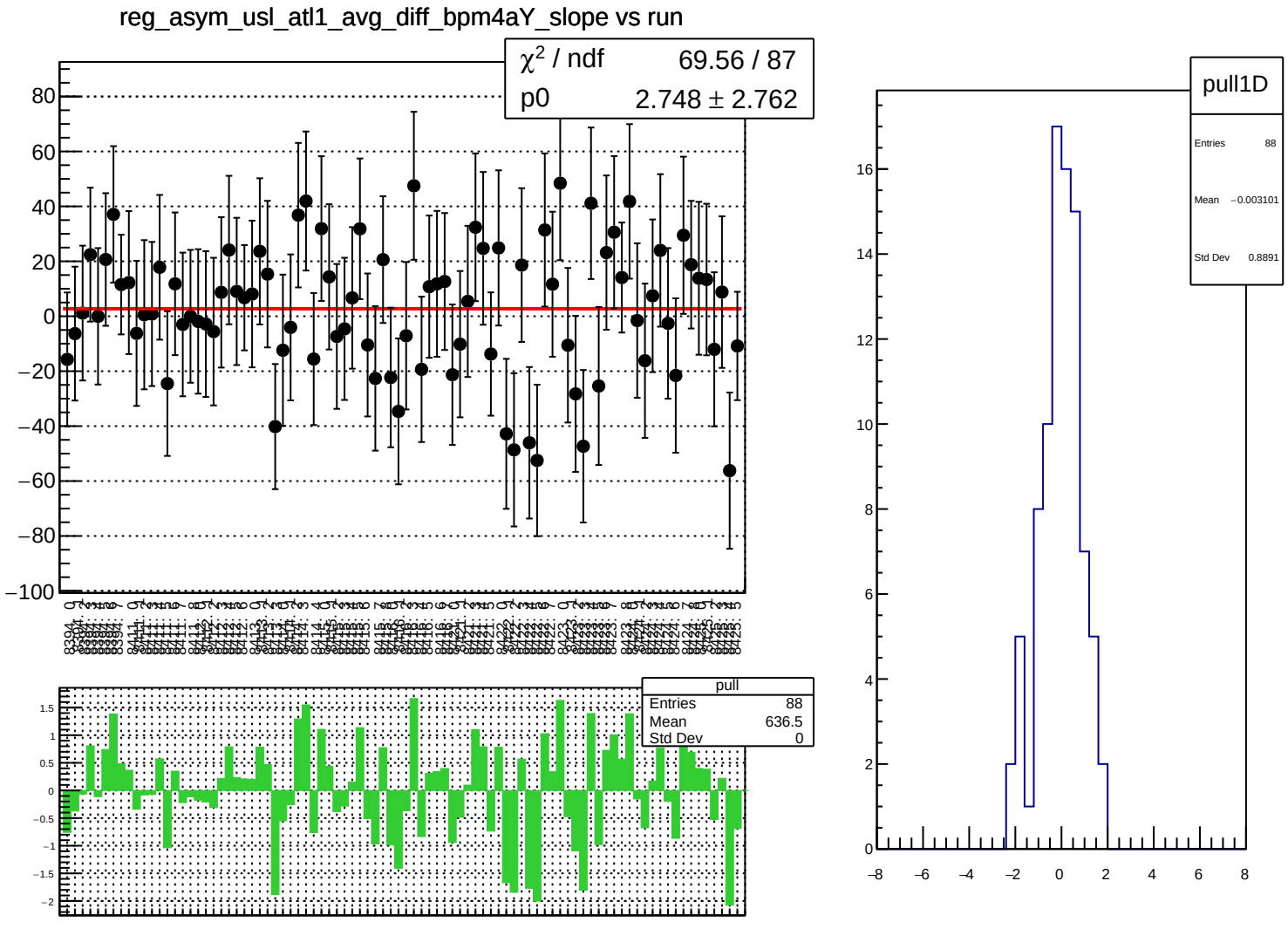

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 33.74 / 87
p0 57.21 ± 2
pull
Entries 88
Mean 21.79
Std Dev 0
pull1D
Entries 88
Mean −0.002117
Std Dev 0.6192

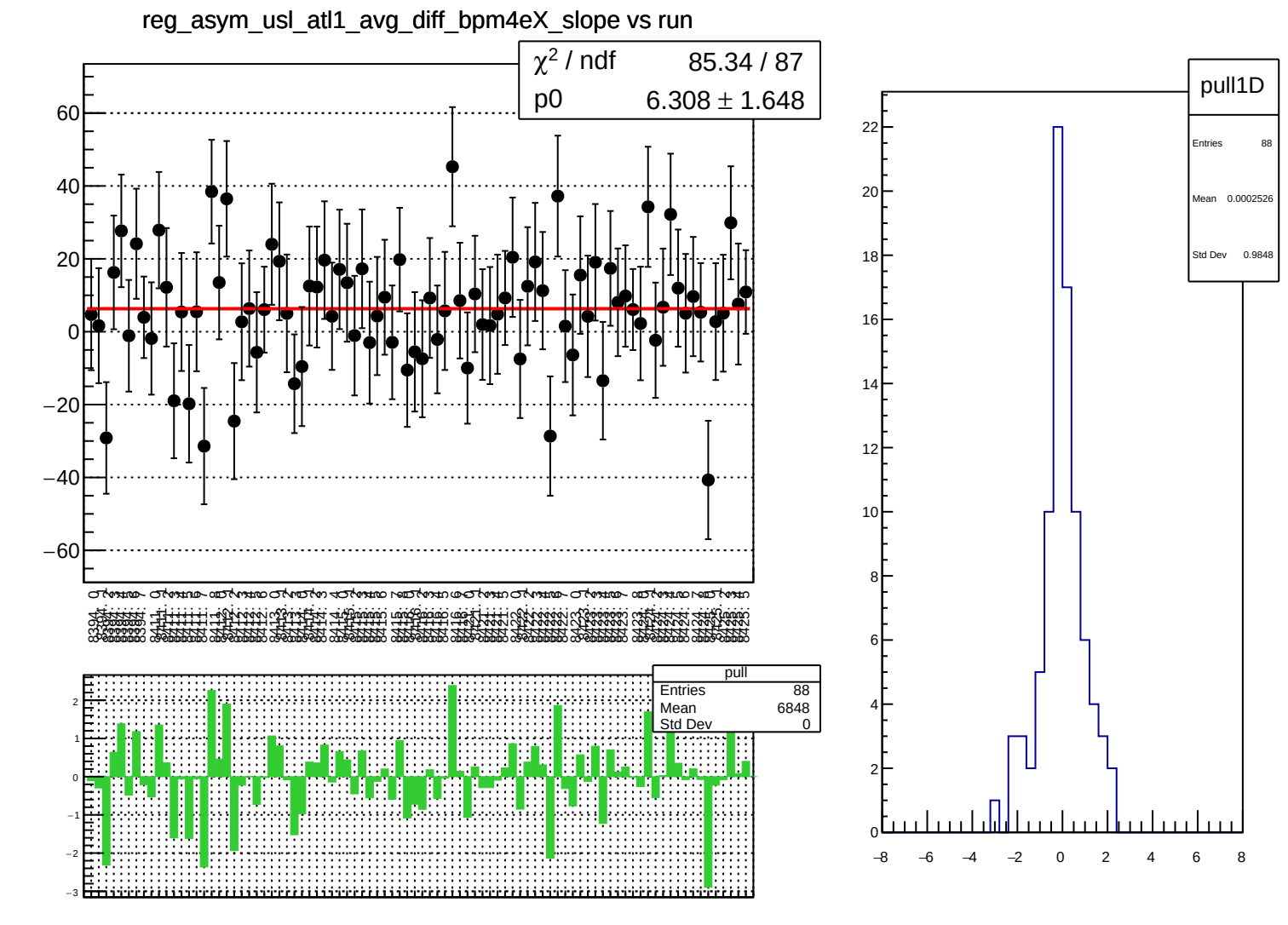

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 37.87 / 87
p0 −6.672 ± 3.511
pull
Entries 88
Mean −11.79
Std Dev 0

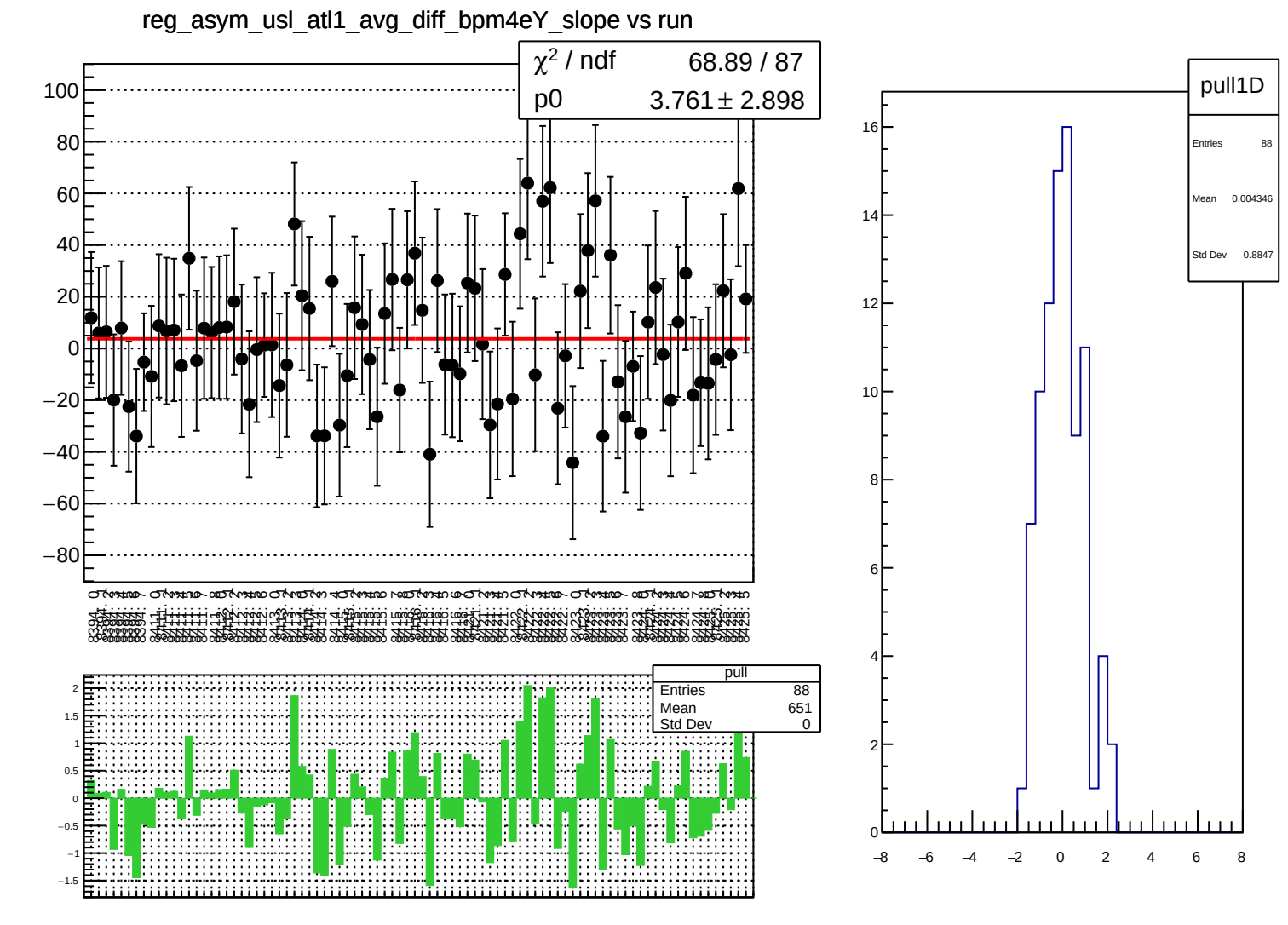

pull1D
Entries 88
Mean 0.009299
Std Dev 0.6559

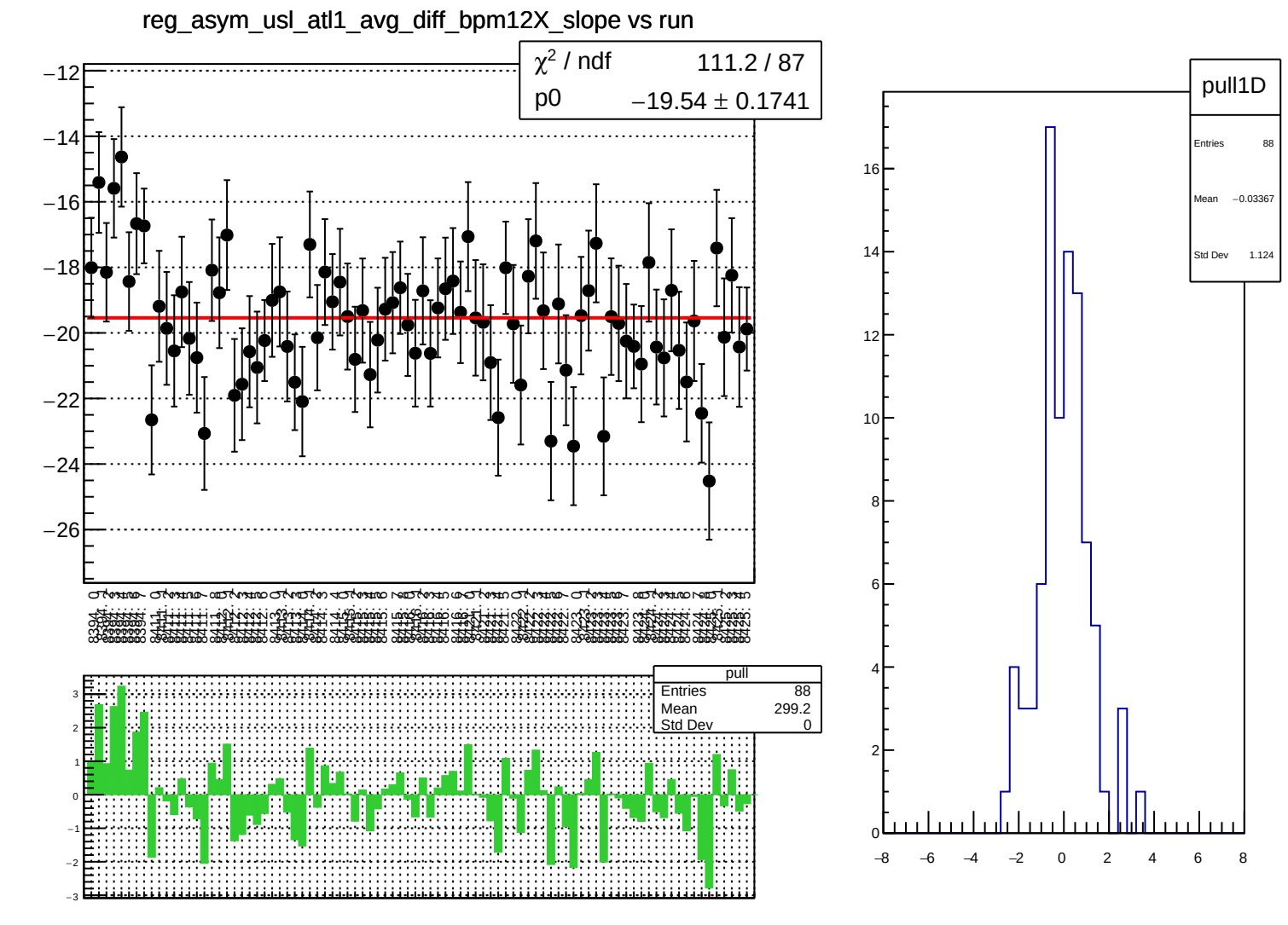

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 32.94 / 87
p0 2.262 ± 0.2108
pull
Entries 88
Mean 329.9
Std Dev 0
pull1D
Entries 88
Mean 0.01334
Std Dev 0.6117

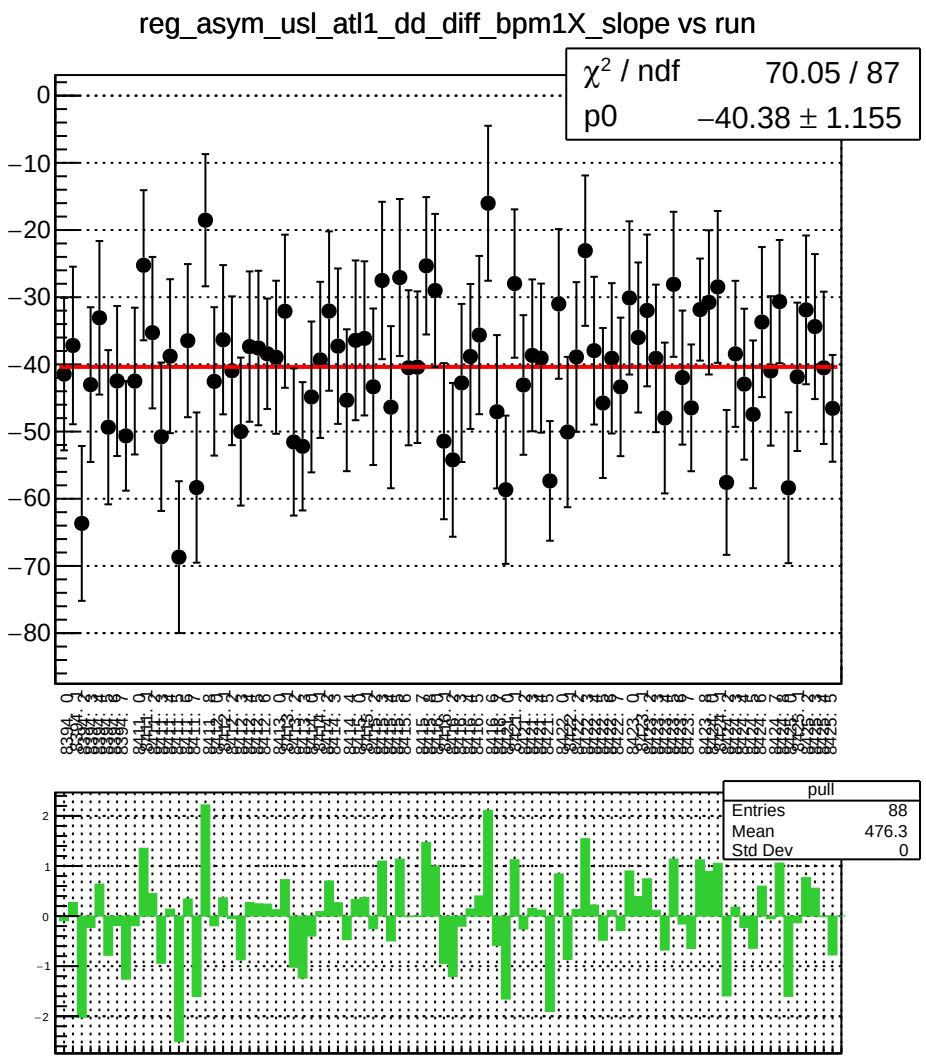

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 85.95 / 87
p0 −21.71± 1.475
pull
Entries 88
Mean 1724
Std Dev 0
pull1D
Entries 88
Mean −0.0008893
Std Dev 0.9883

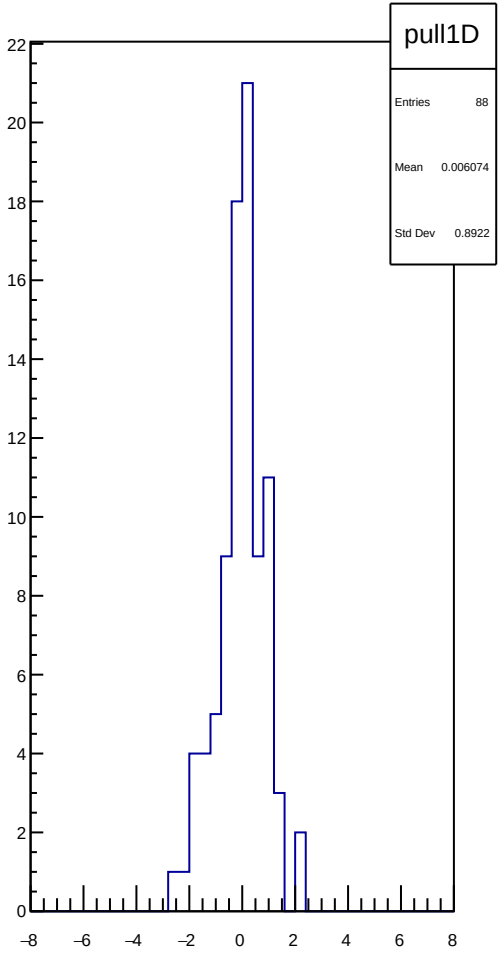

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 69.56 / 87
p0 2.748 ± 2.762
pull
Entries 88
Mean 636.5
Std Dev 0
pull1D
Entries 88
Mean −0.003101
Std Dev 0.8891

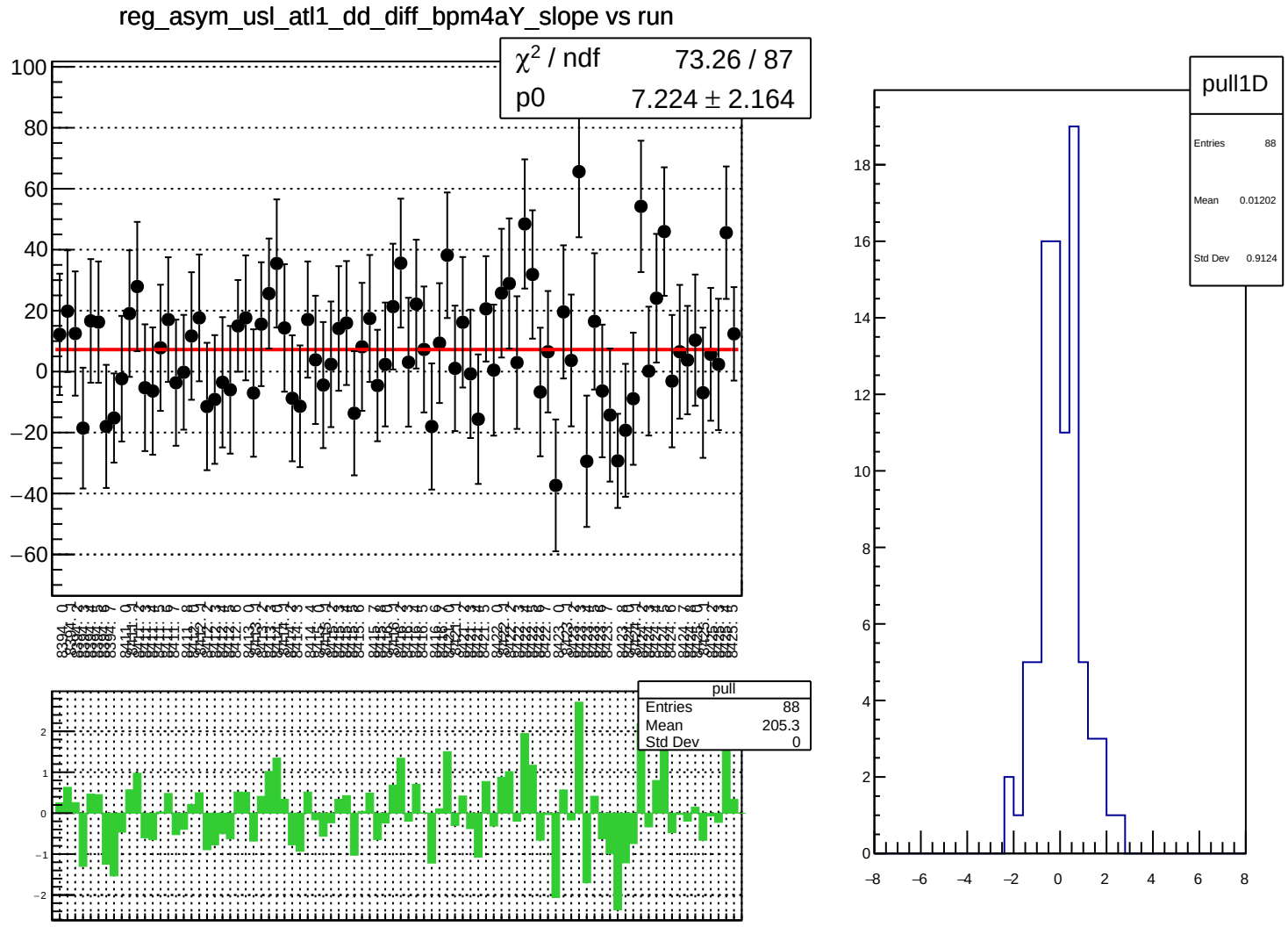

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 85.34 / 87
p0 6.308 ± 1.648
pull
Entries 88
Mean 6848
Std Dev 0
pull1D
Entries 88
Mean 0.0002526
Std Dev 0.9848

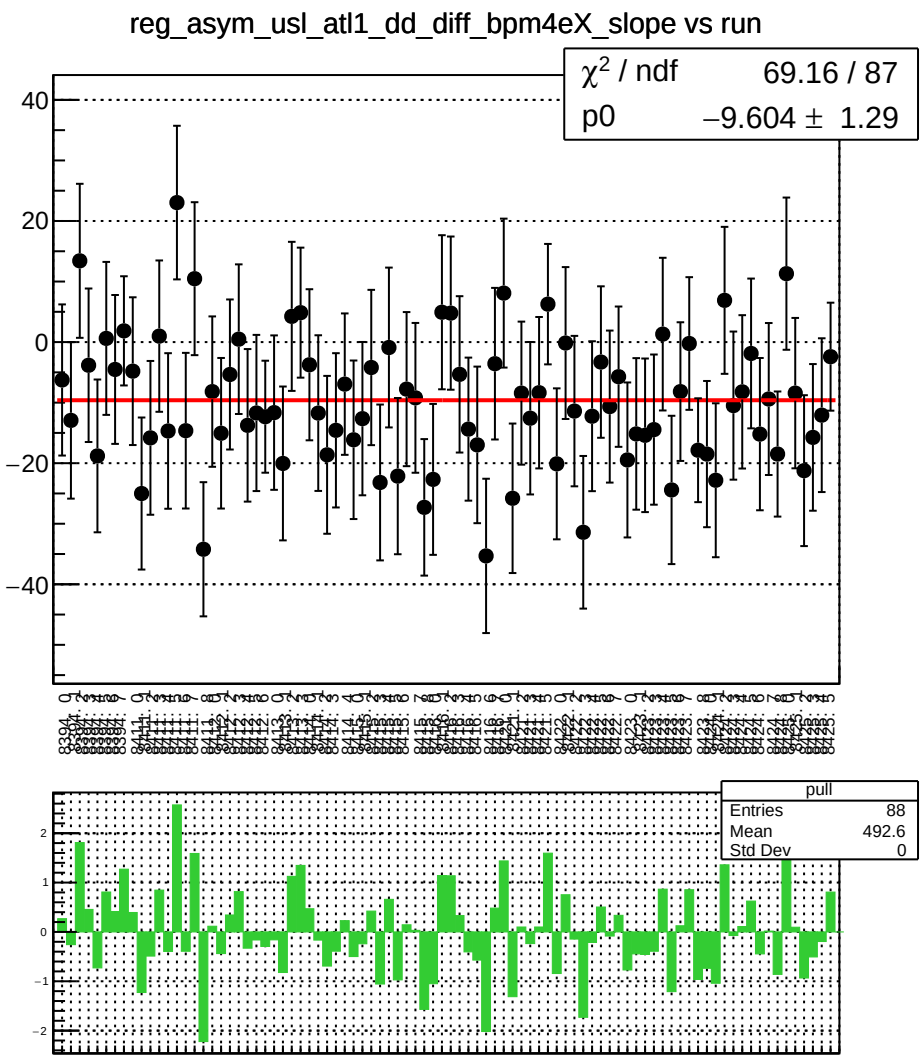

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 68.89 / 87
p0 3.761 ± 2.898
pull
Entries 88
Mean 651
Std Dev 0
pull1D
Entries 88
Mean 0.004346
Std Dev 0.8847

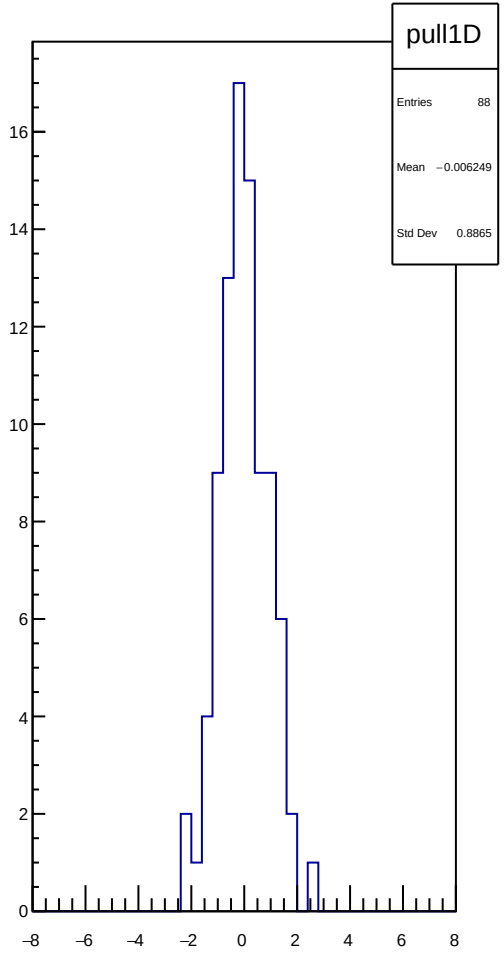

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 111.2 / 87
p0 −19.54 ± 0.1741
pull
Entries 88
Mean 299.2
Std Dev 0
pull1D
Entries 88
Mean −0.03367
Std Dev 1.124

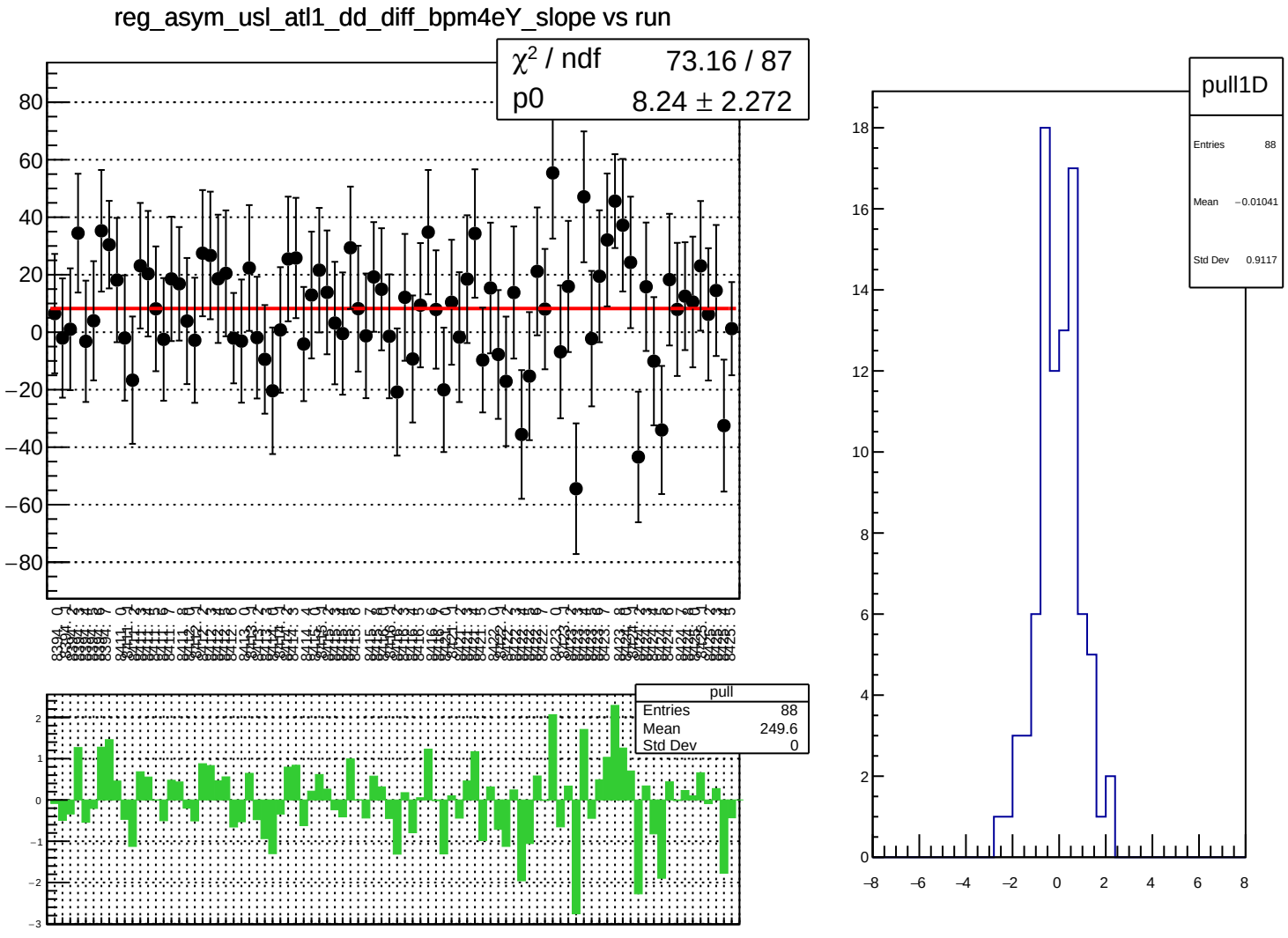

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 70.05 / 87
p0 −40.38 ± 1.155
pull
Entries 88
Mean 476.3
Std Dev 0

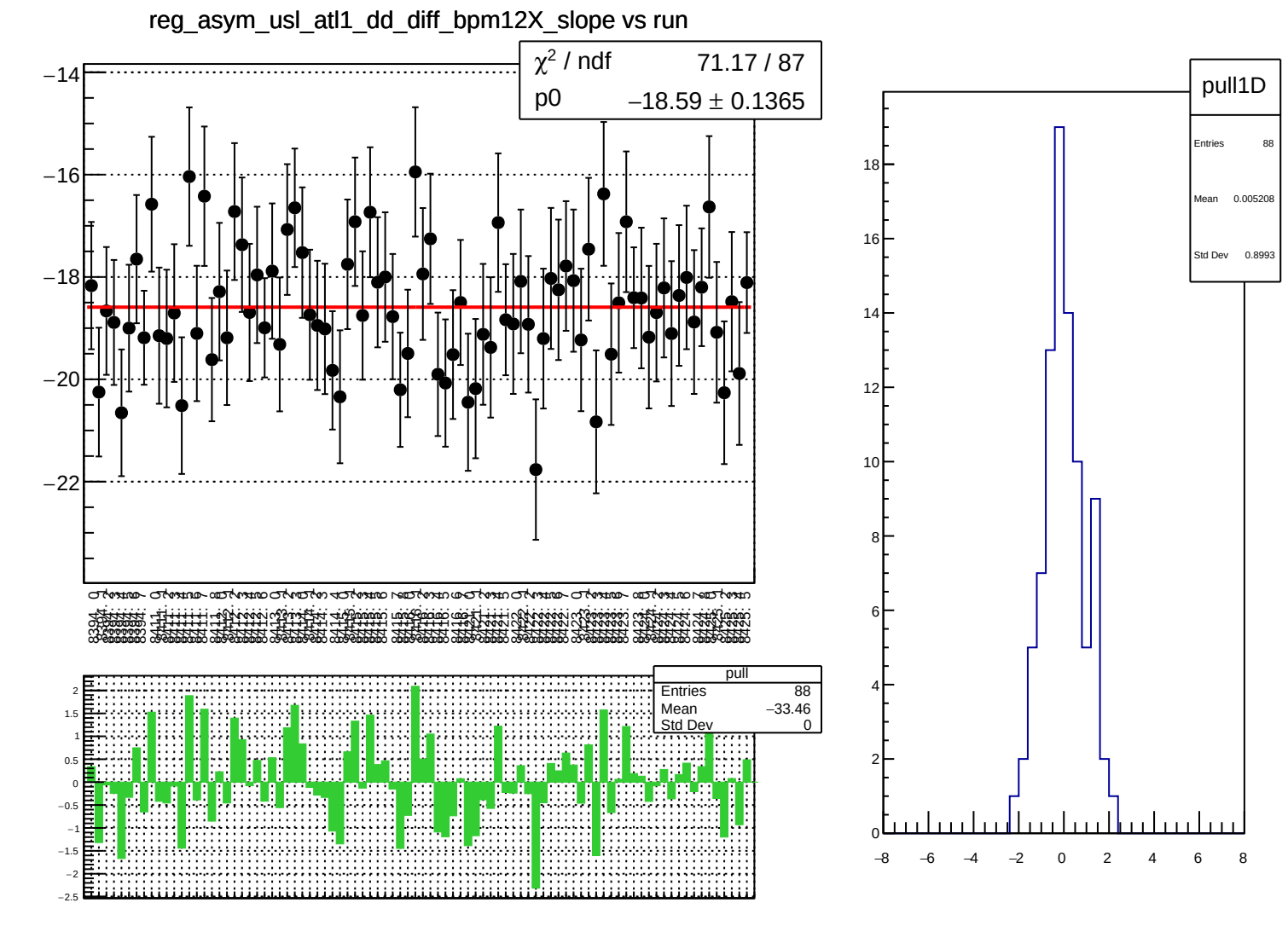

pull1D
Entries 88
Mean 0.006074
Std Dev 0.8922

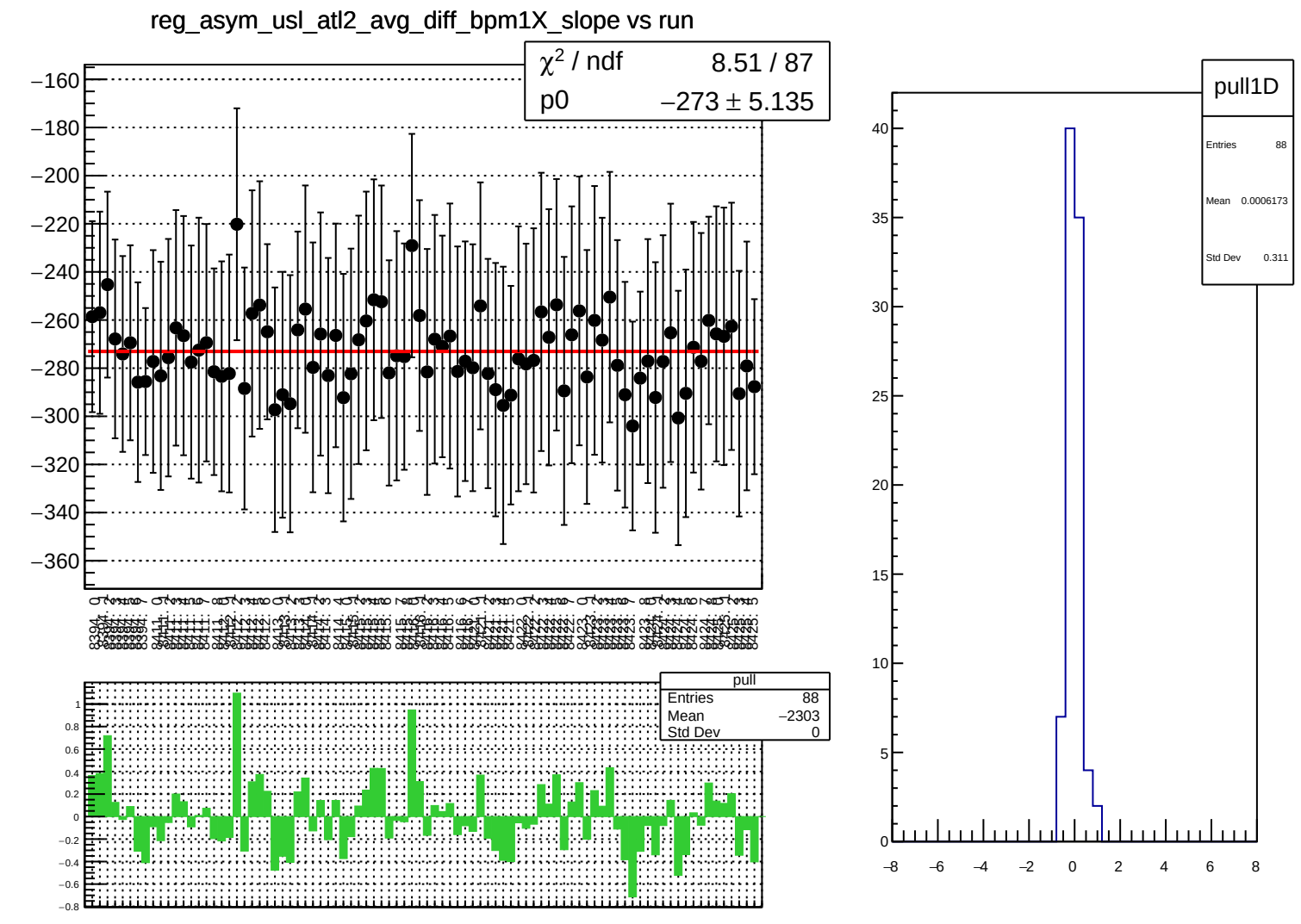

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 73.26 / 87
p0 7.224 ± 2.164
pull
Entries 88
Mean 205.3
Std Dev 0
pull1D
Entries 88
Mean 0.01202
Std Dev 0.9124

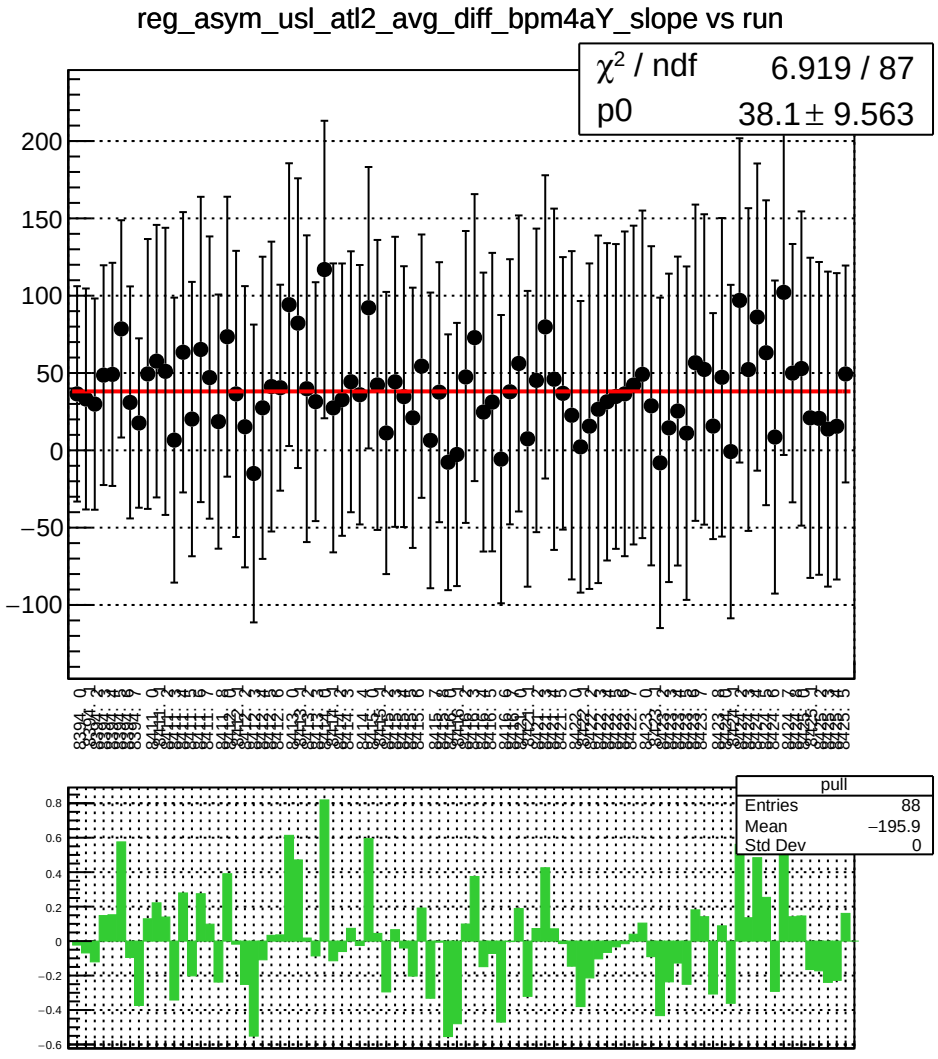

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 69.16 / 87
p0 −9.604 ± 1.29
40
20
0
−20
−40
pull
Entries 88
Mean 492.6
Std Dev 0
2
1
0
−1
−2

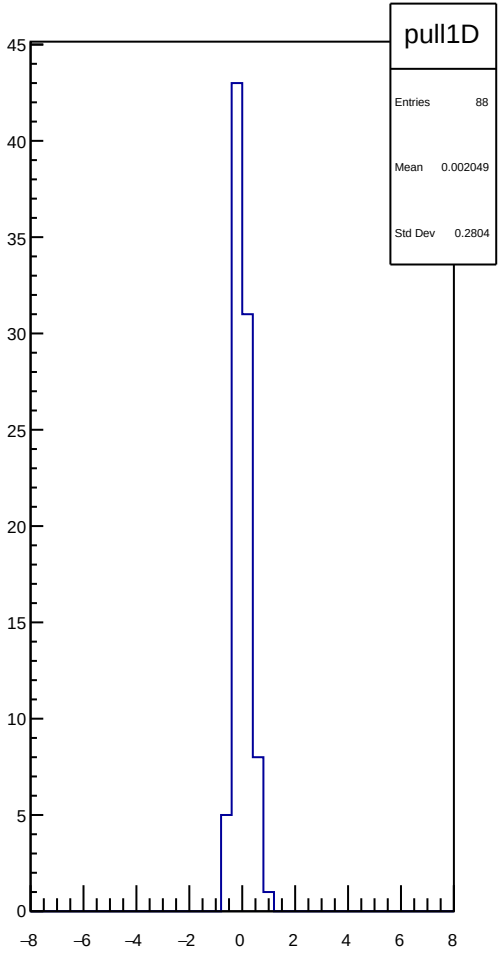

pull1D
Entries 88
Mean −0.006249
Std Dev 0.8865
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

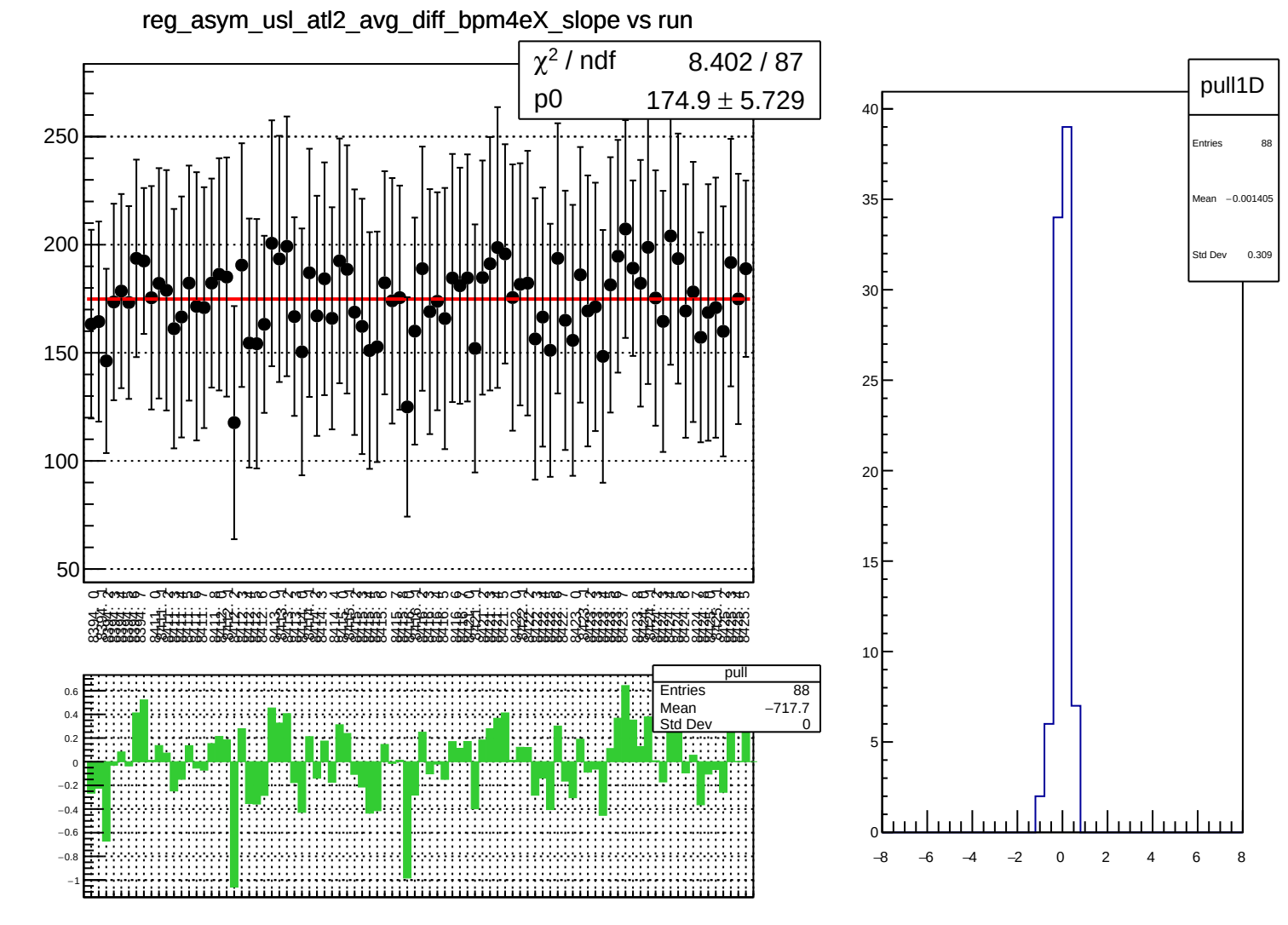

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 73.16 / 87
p0 8.24 ± 2.272
pull
Entries 88
Mean 249.6
Std Dev 0
pull1D
Entries 88
Mean −0.01041
Std Dev 0.9117

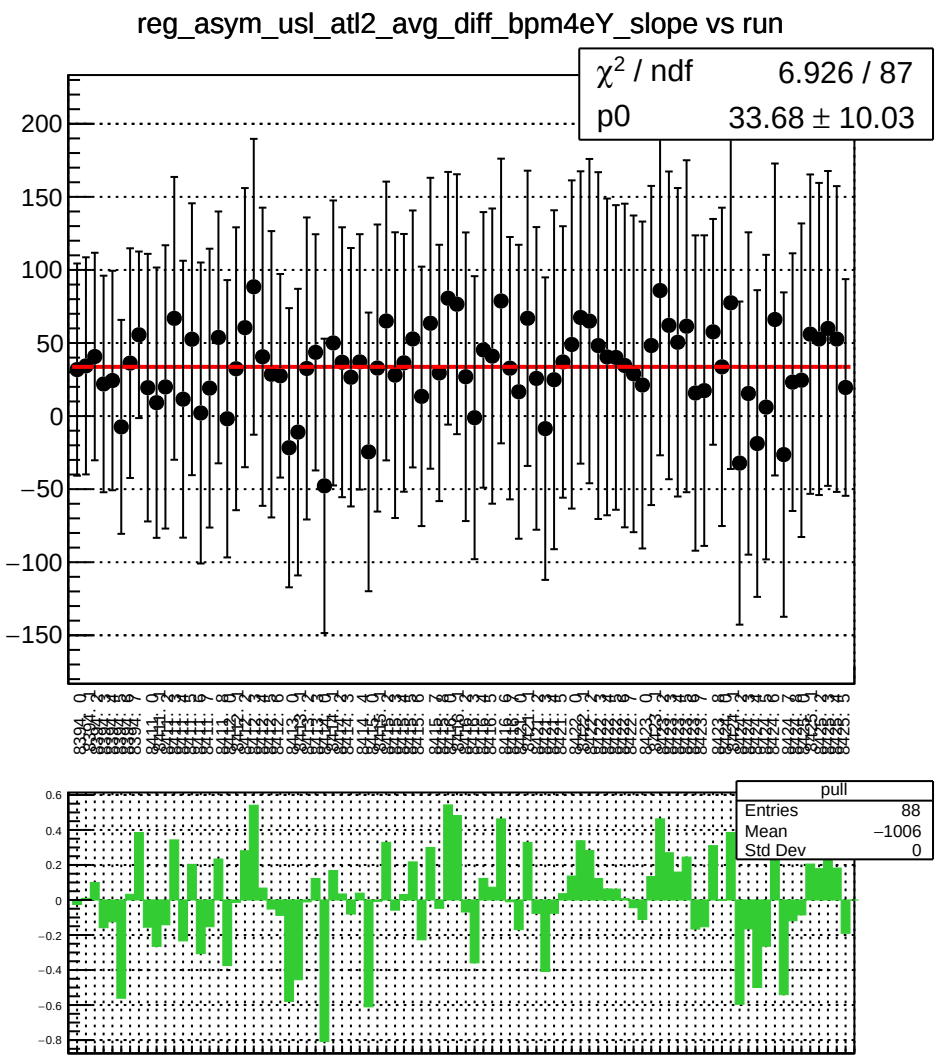

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 71.17 / 87
p0 −18.59 ± 0.1365
pull
Entries 88
Mean −33.46
Std Dev 0
pull1D
Entries 88
Mean 0.005208
Std Dev 0.8993

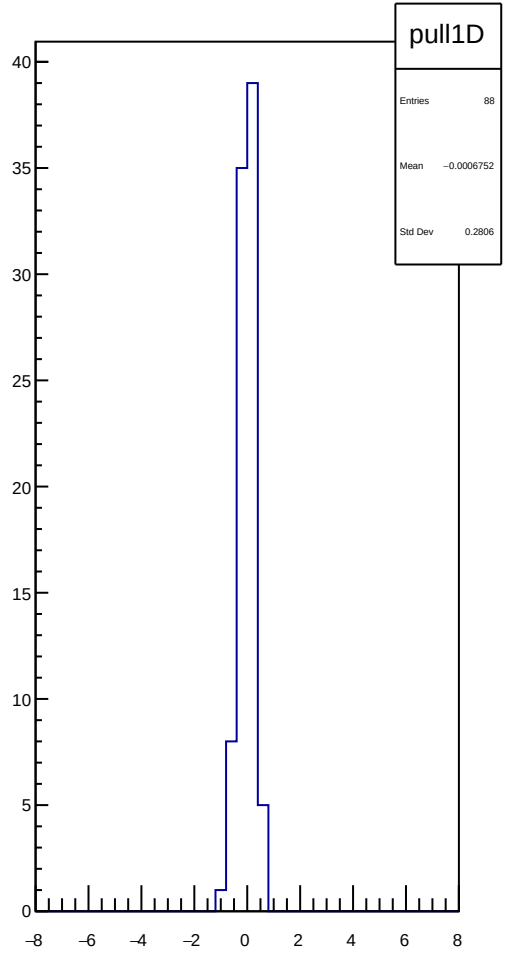

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 8.51 / 87
p0 −273 ± 5.135
pull
Entries 88
Mean −2303
Std Dev 0
pull1D
Entries 88
Mean 0.0006173
Std Dev 0.311

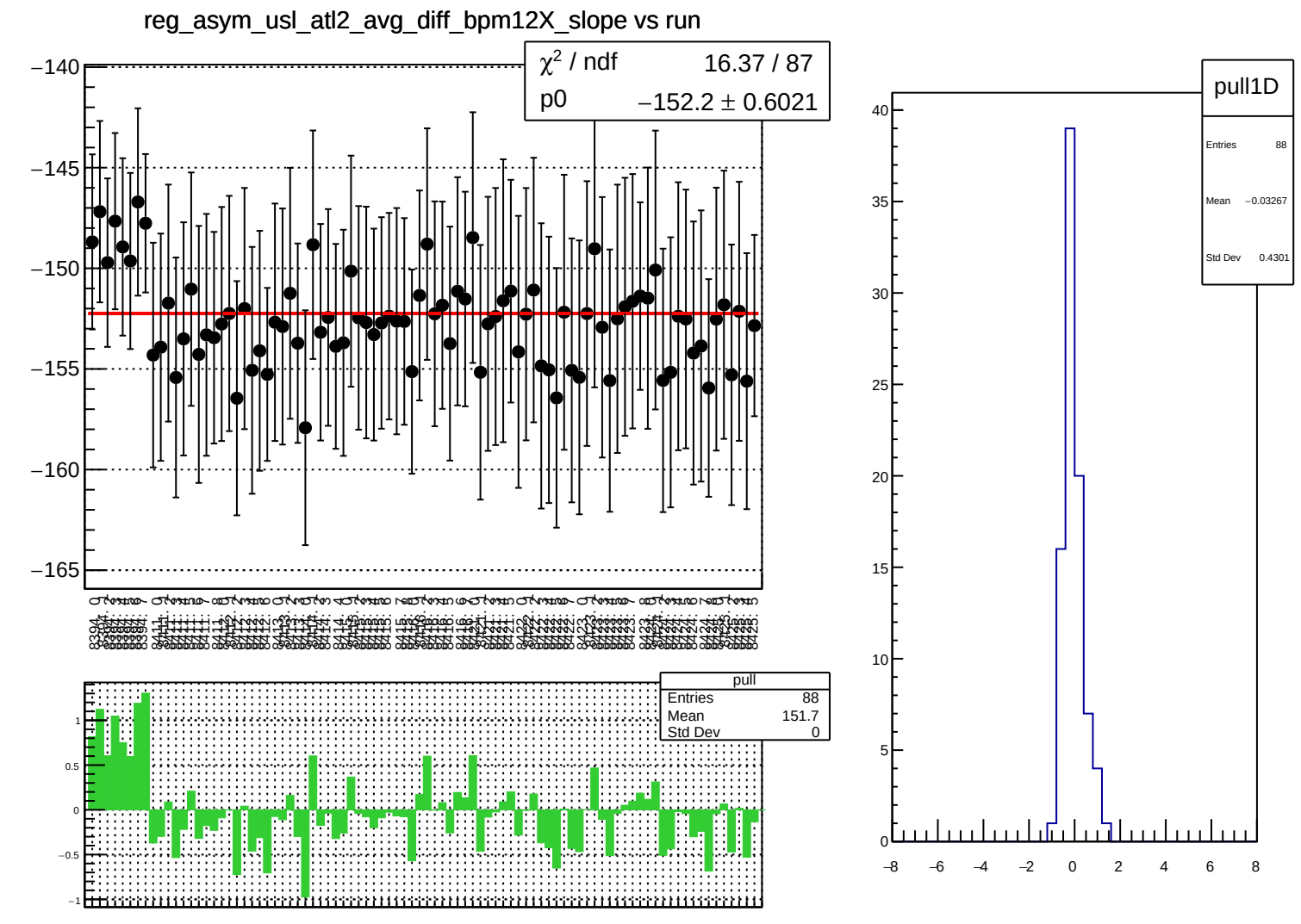

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.919 / 87
p0 38.1 ± 9.563
pull
Entries 88
Mean −195.9
Std Dev 0

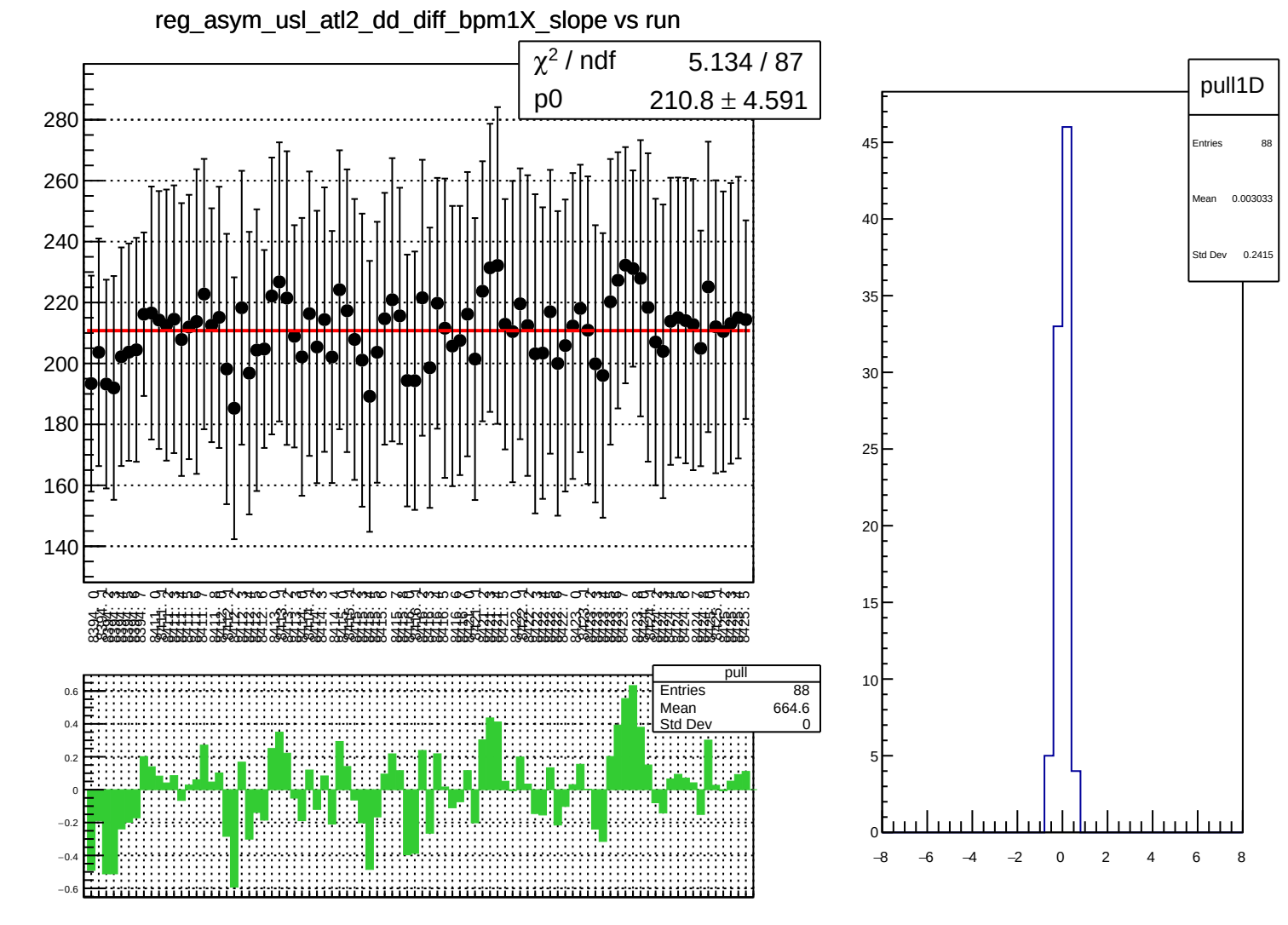

pull1D
Entries 88
Mean 0.002049
Std Dev 0.2804

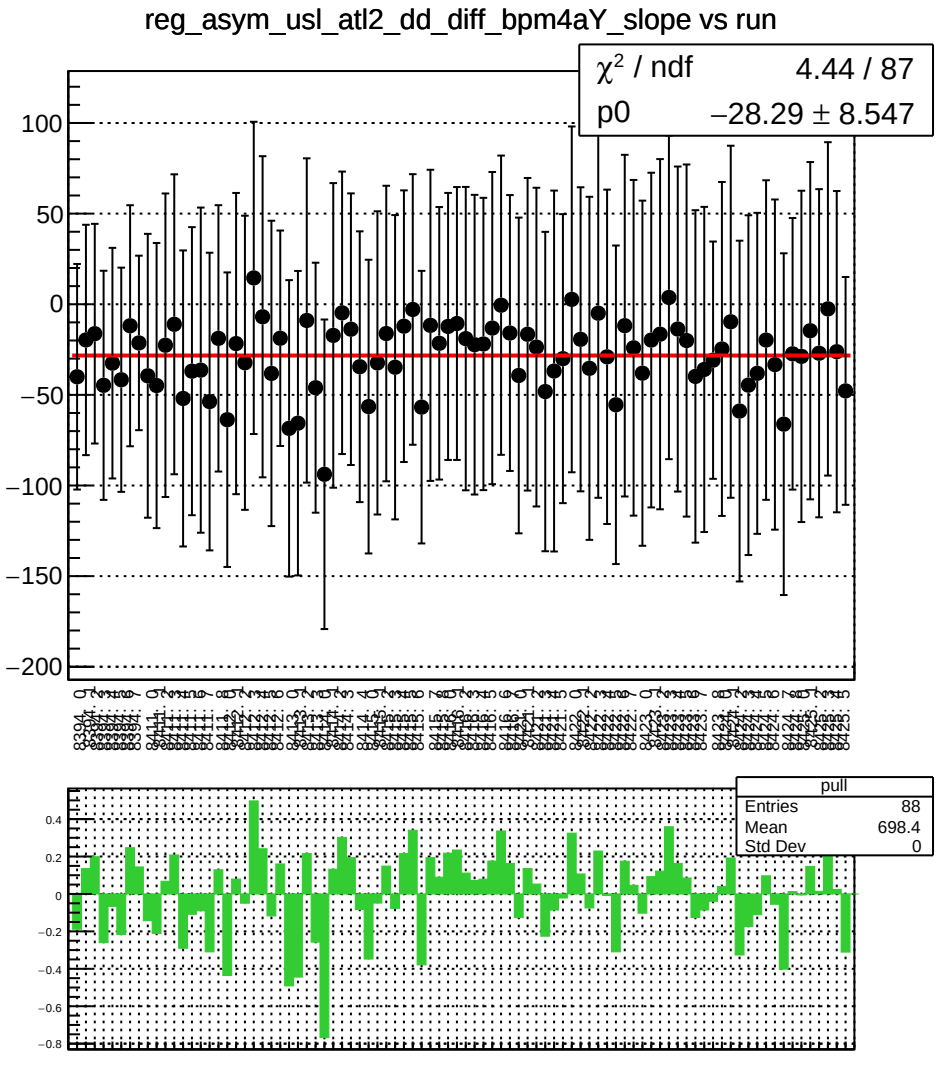

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.402 / 87
p0 174.9 ± 5.729
250
200
150
100
50
pull
Entries 88
Mean −717.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 88
Mean −0.001405
Std Dev 0.309
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

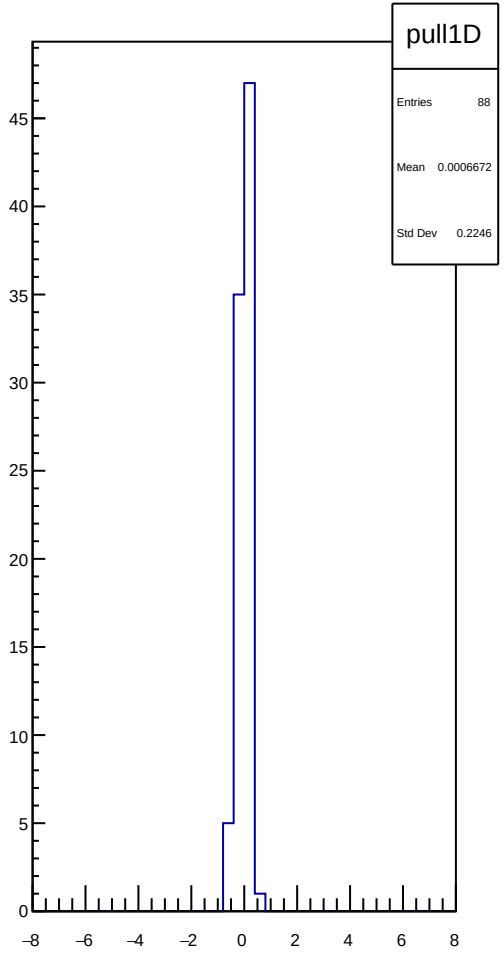

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.926 / 87
p0 33.68 ± 10.03
pull
Entries 88
Mean −1006
Std Dev 0

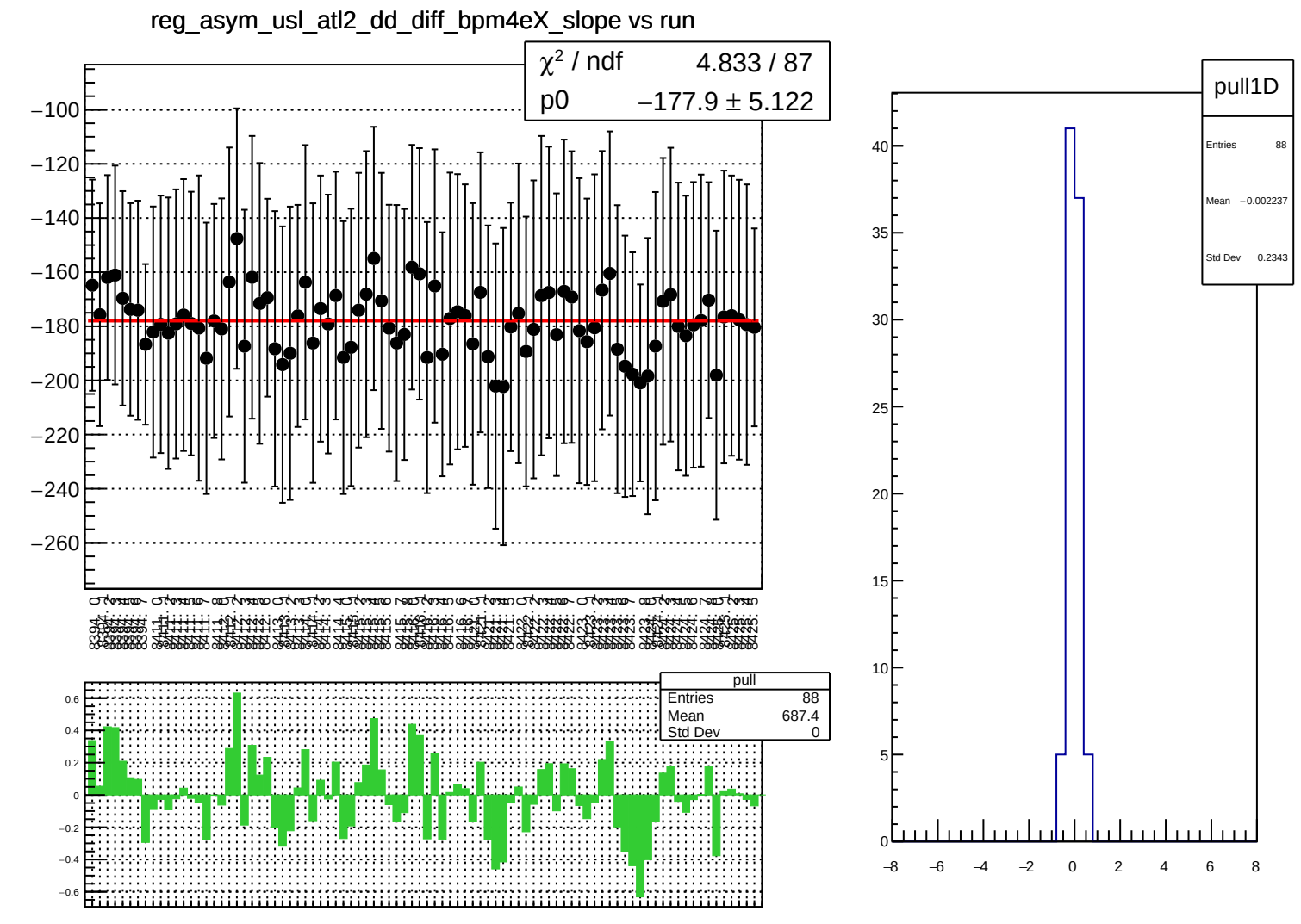

pull1D
Entries 88
Mean −0.0006752
Std Dev 0.2806

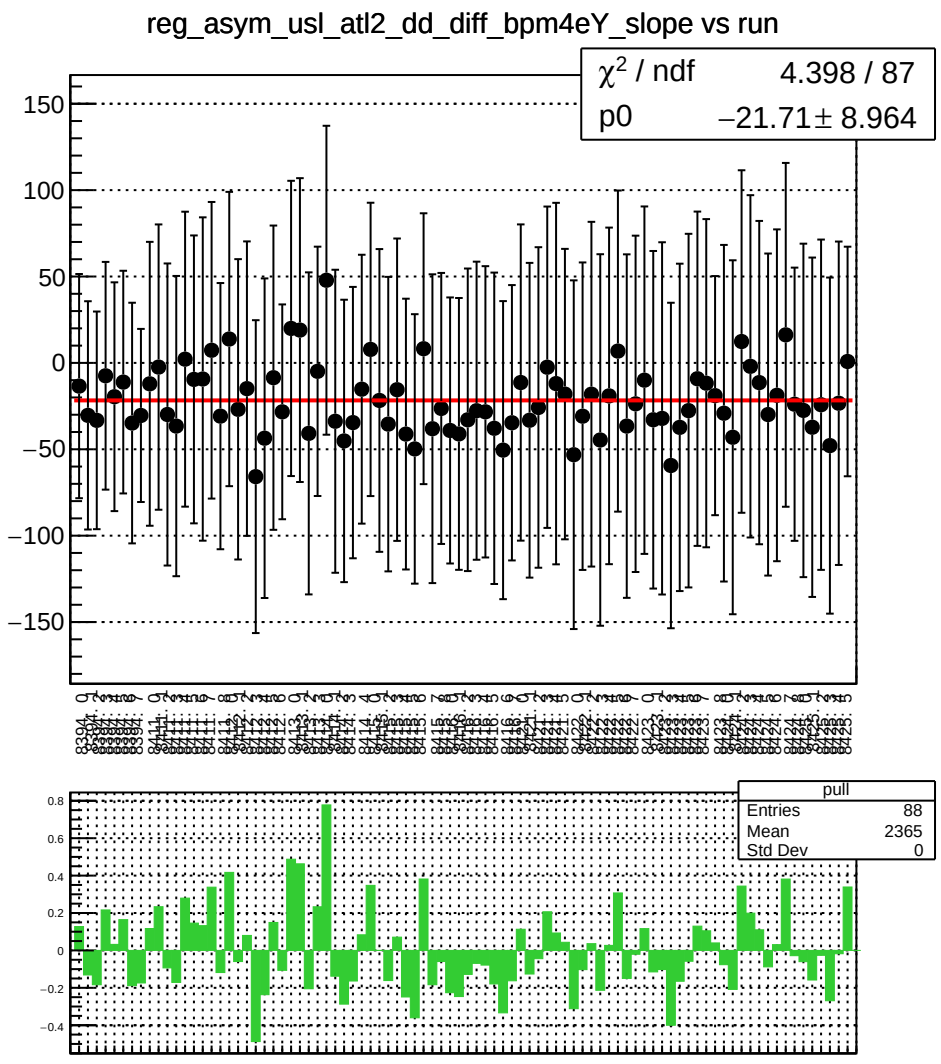

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 16.37 / 87
p0 −152.2 ± 0.6021
pull
Entries 88
Mean 151.7
Std Dev 0
pull1D
Entries 88
Mean −0.03267
Std Dev 0.4301

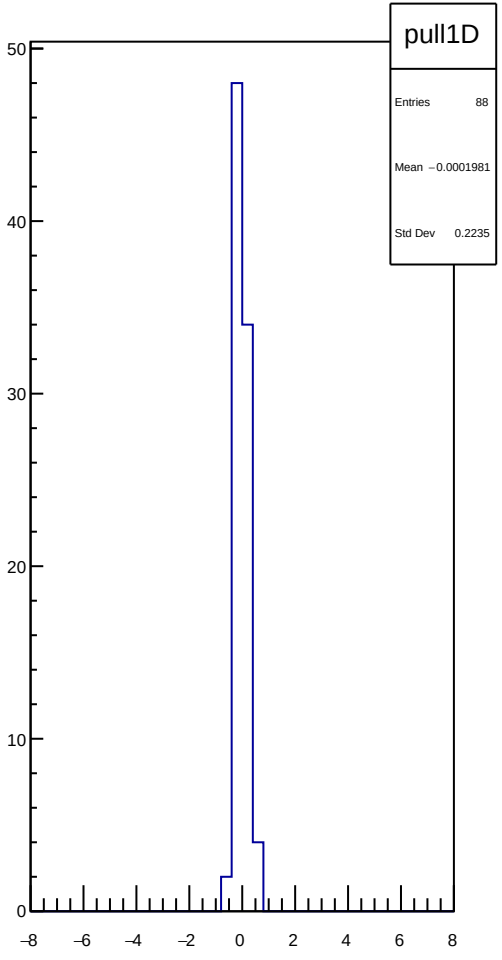

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 5.134 / 87
p0 210.8 ± 4.591
280
260
240
220
200
180
160
140
pull
Entries 88
Mean 664.6
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean 0.003033
Std Dev 0.2415
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

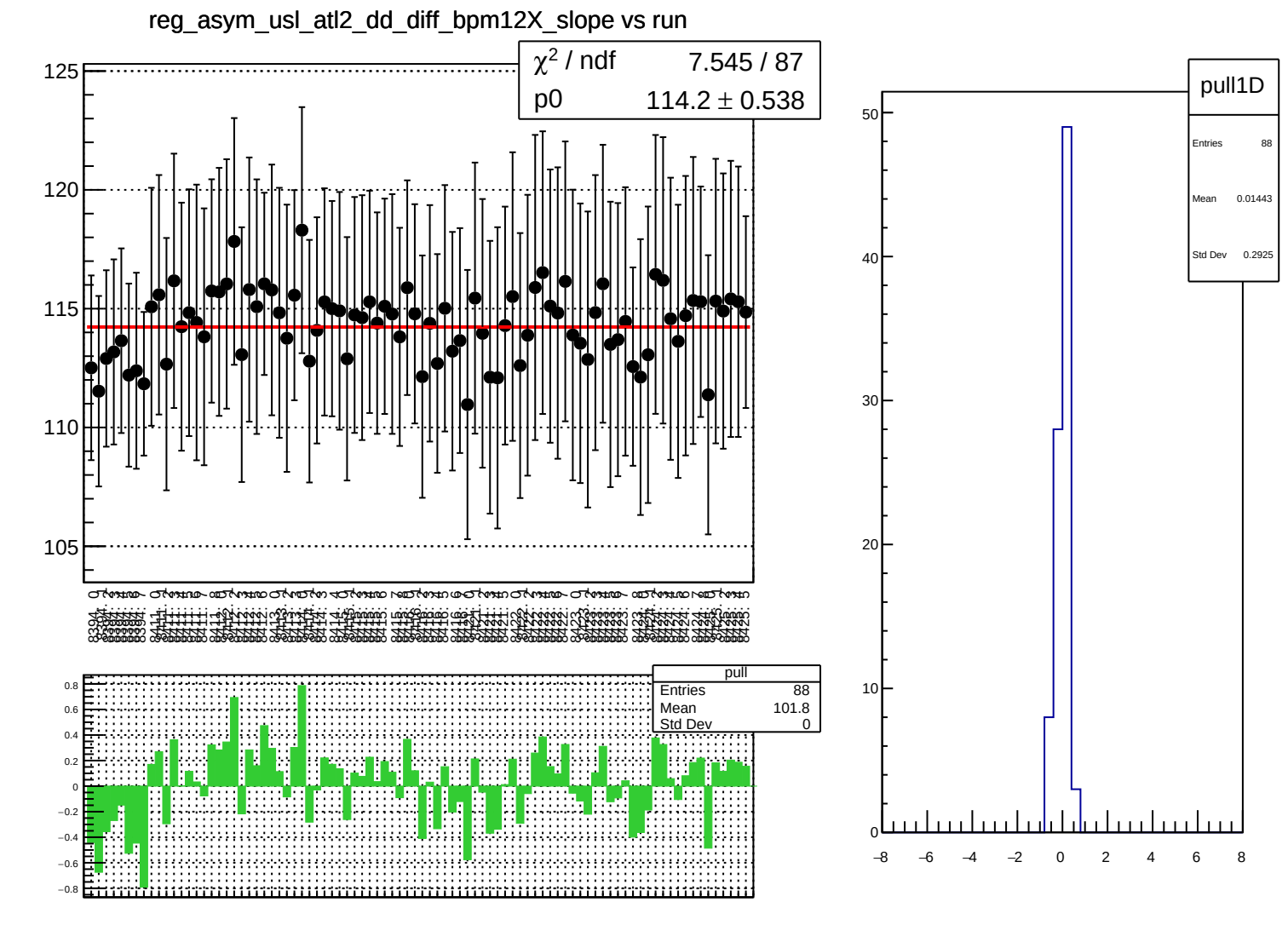

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.44 / 87
p0 −28.29 ± 8.547
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 698.4
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

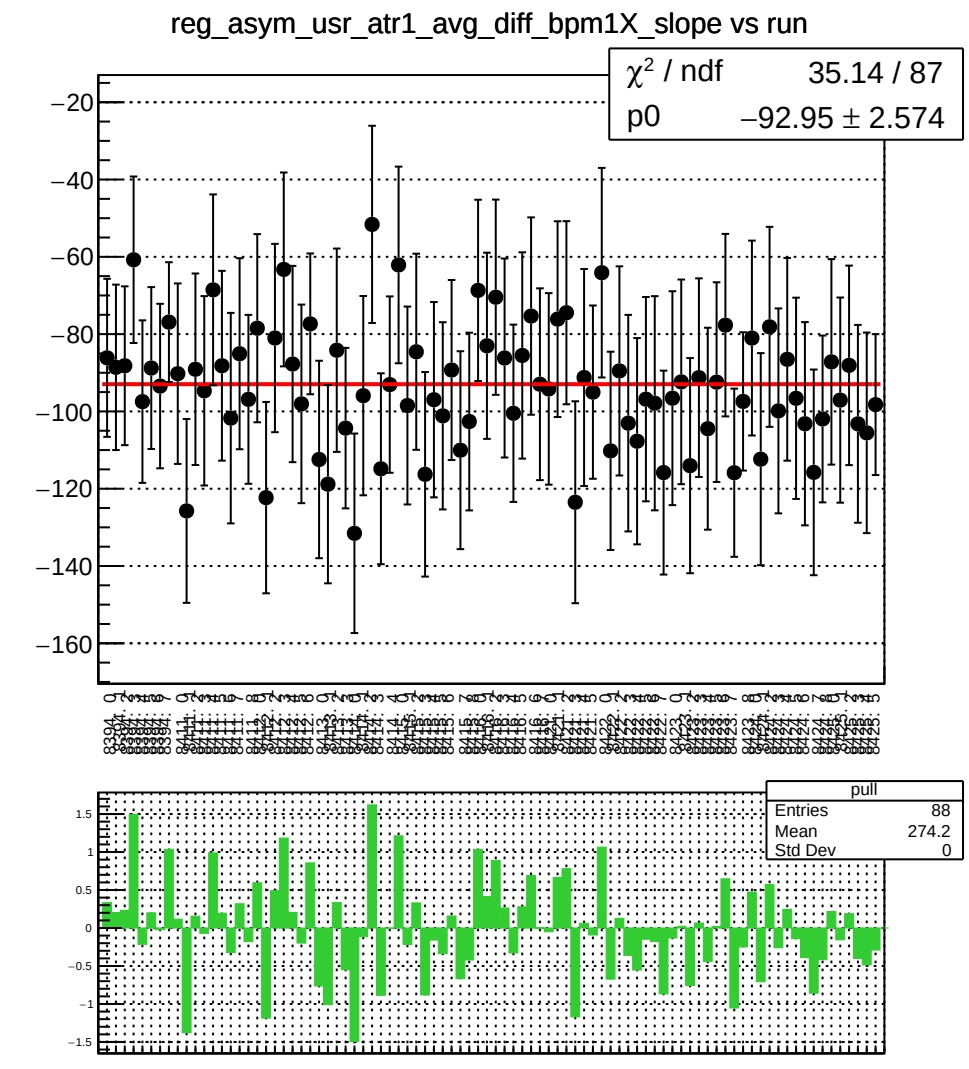

pull1D
Entries 88
Mean 0.0006672
Std Dev 0.2246
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

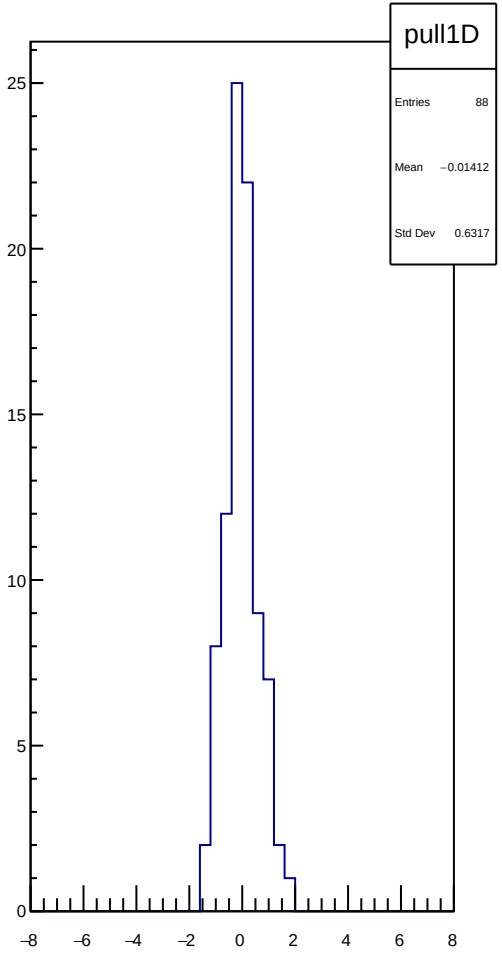

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.833 / 87
p0 −177.9 ± 5.122
−100
−120
−140
−160
−180
−200
−220
−240
−260
pull
Entries 88
Mean 687.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean −0.002237
Std Dev 0.2343
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

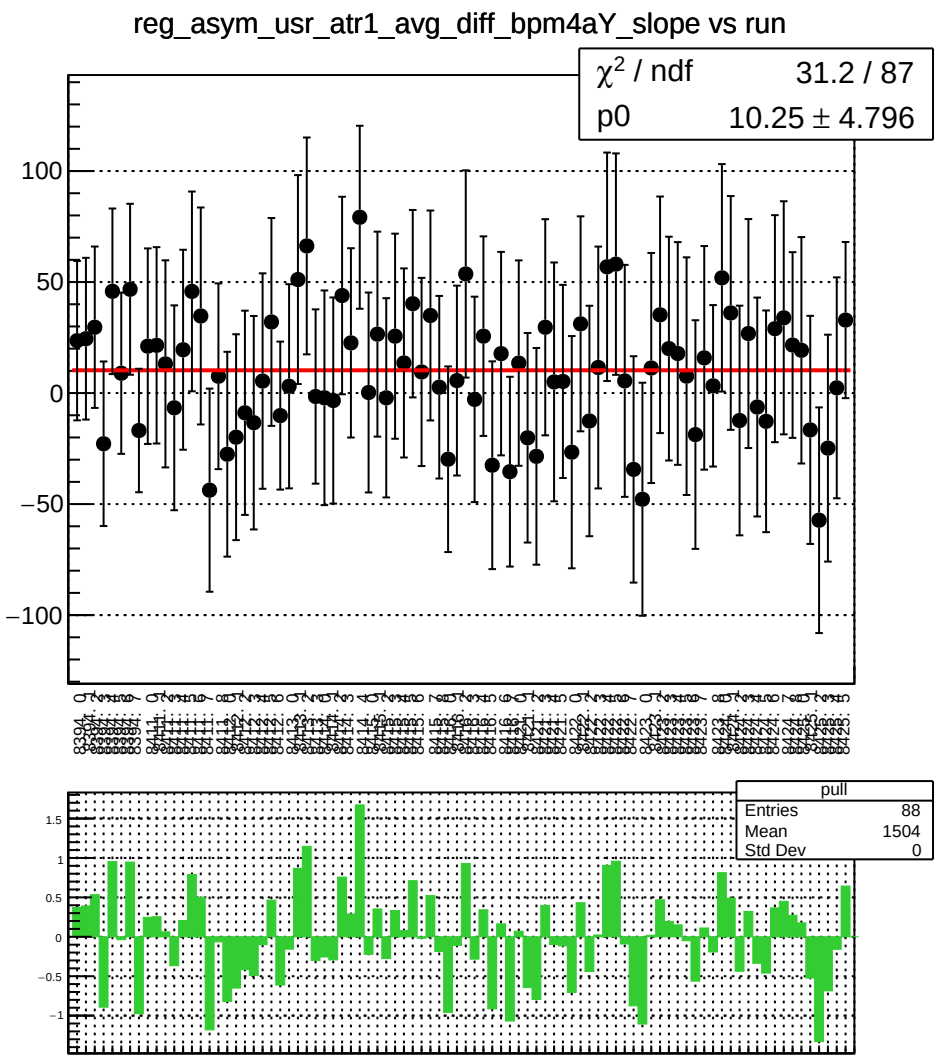

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.398 / 87
p0 −21.71 ± 8.964
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 2365
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4

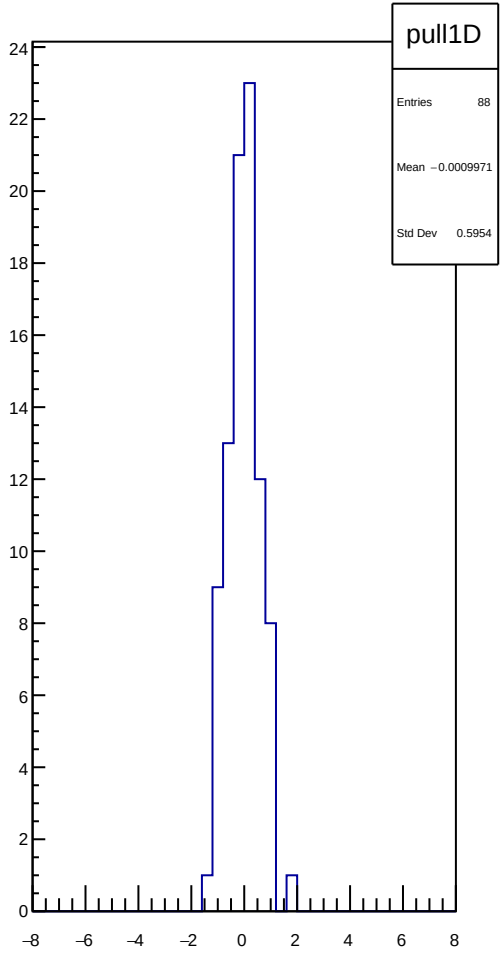

pull1D
Entries 88
Mean −0.0001981
Std Dev 0.2235
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

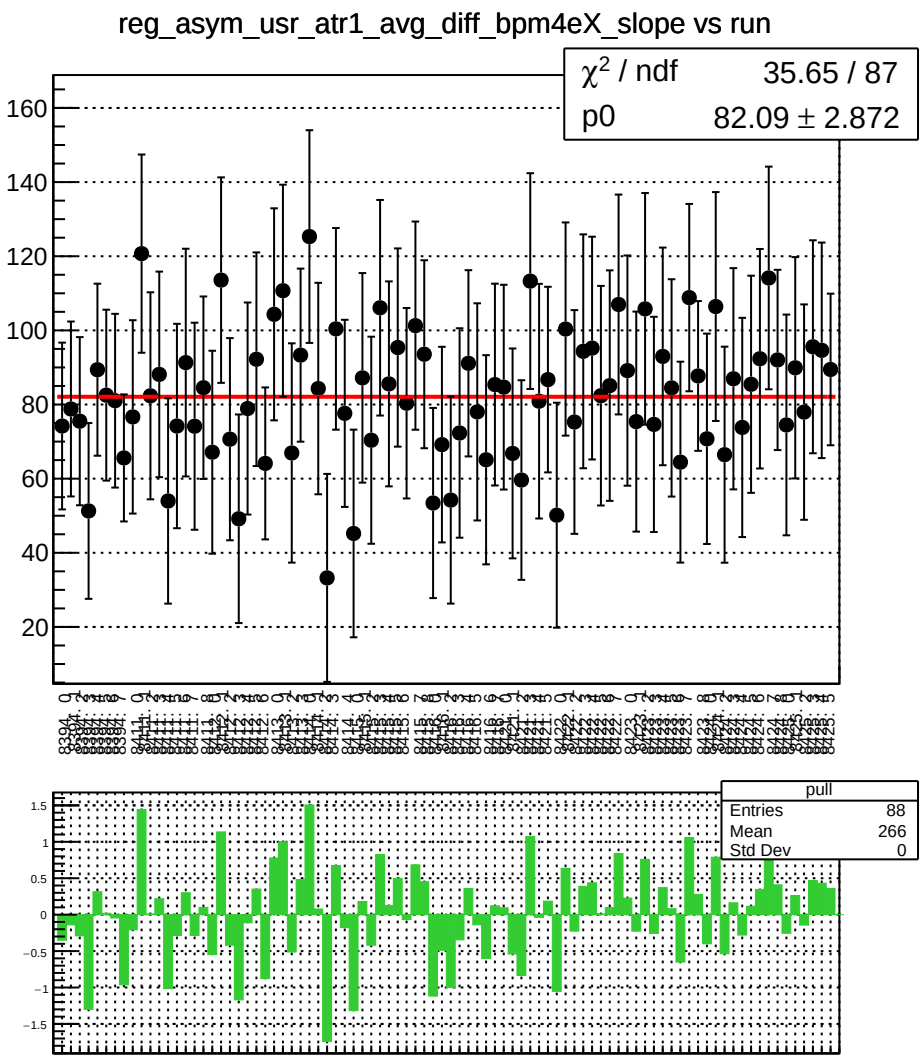

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 7.545 / 87
p0 114.2 ± 0.538
125
120
115
110
105
pull
Entries 88
Mean 101.8
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 88
Mean 0.01443
Std Dev 0.2925
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

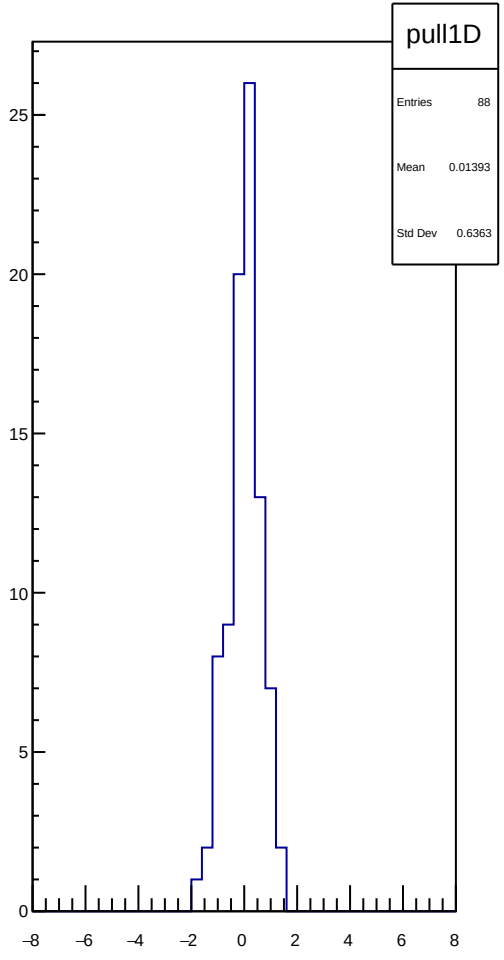

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 35.14 / 87
p0 −92.95 ± 2.574
pull
Entries 88
Mean 274.2
Std Dev 0

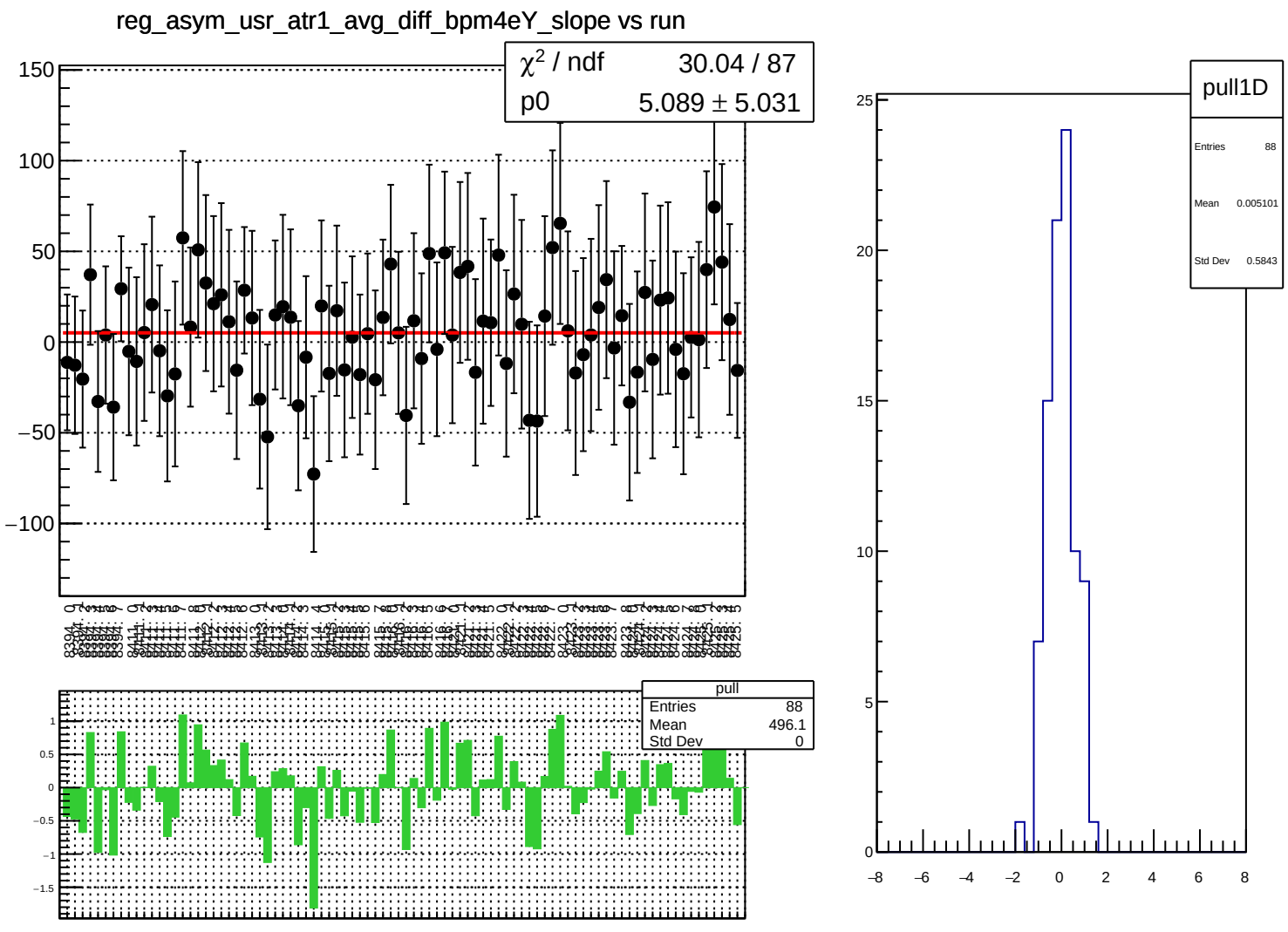

pull1D
Entries 88
Mean −0.01412
Std Dev 0.6317

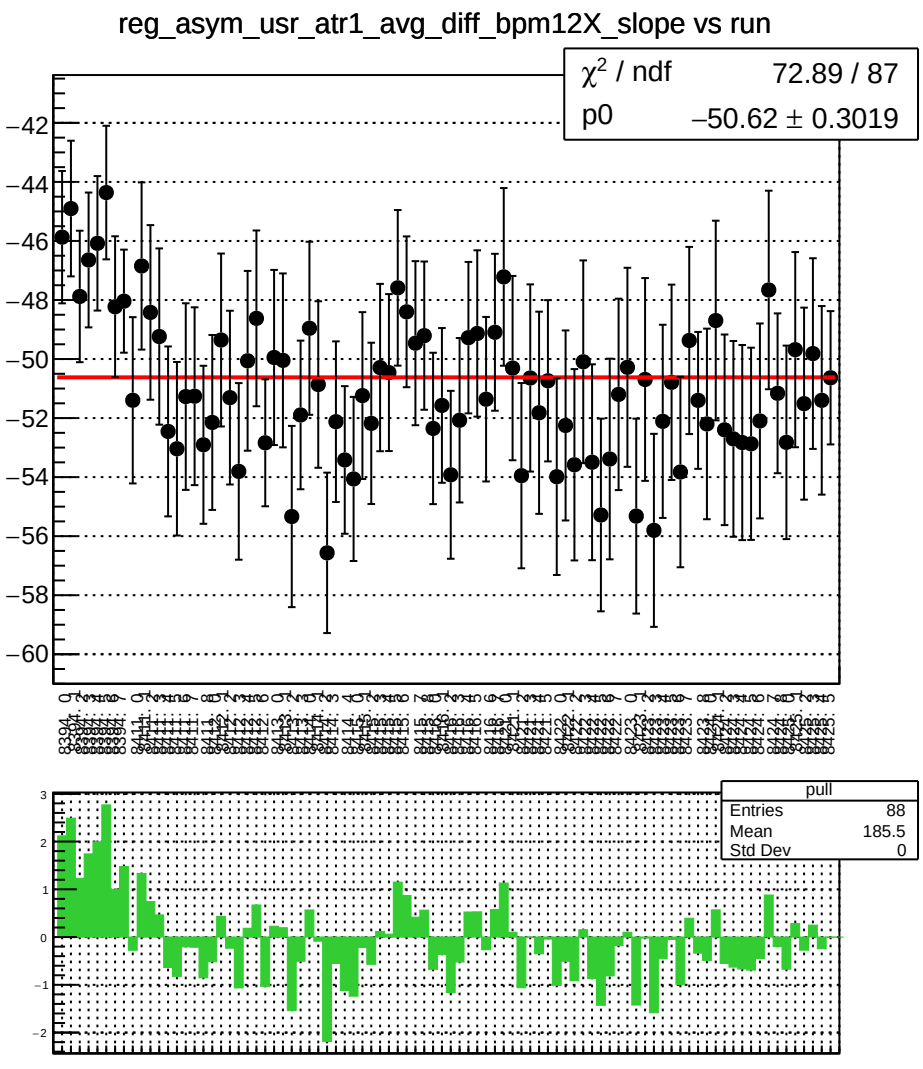

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 31.2 / 87
p0 10.25 ± 4.796
100
50
0
−50
−100
pull
Entries 88
Mean 1504
Std Dev 0
1.5
1
0.5
0
−0.5
−1

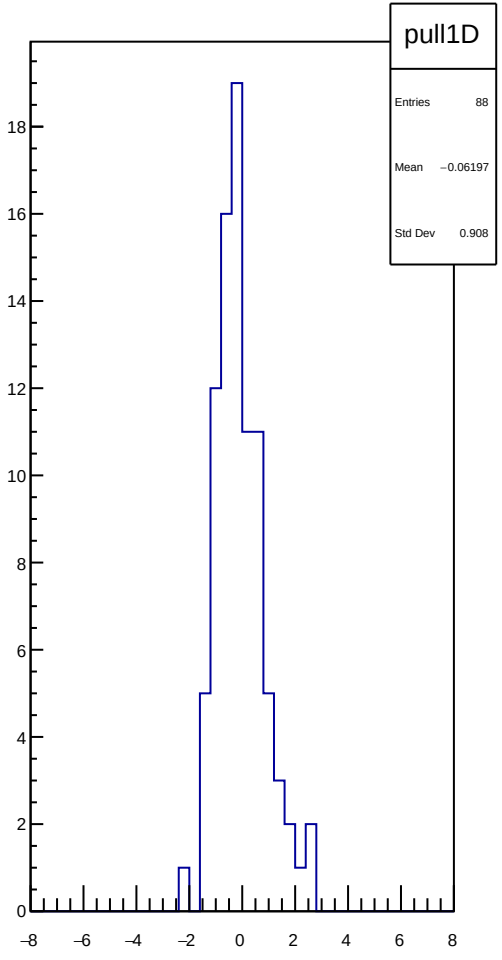

pull1D
Entries 88
Mean −0.0009971
Std Dev 0.5954
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

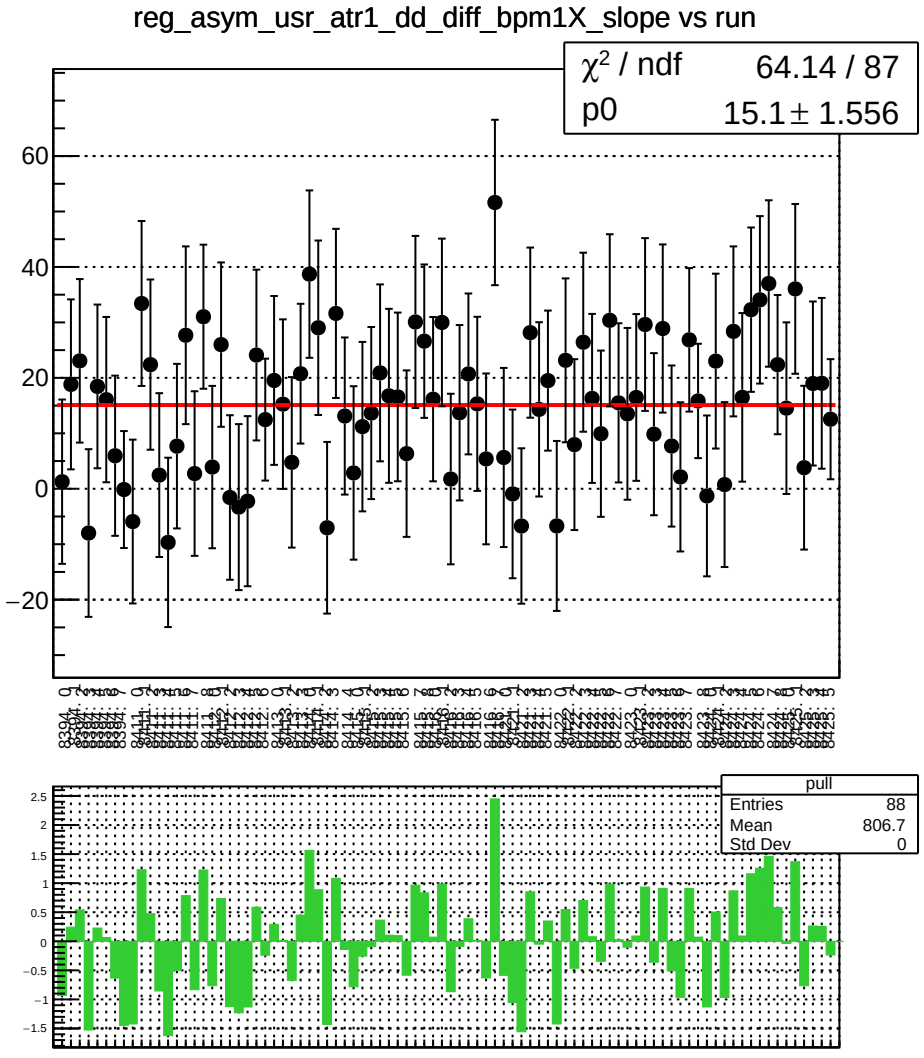

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 35.65 / 87
p0 82.09 ± 2.872
160
140
120
100
80
60
40
20
pull
Entries 88
Mean 266
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

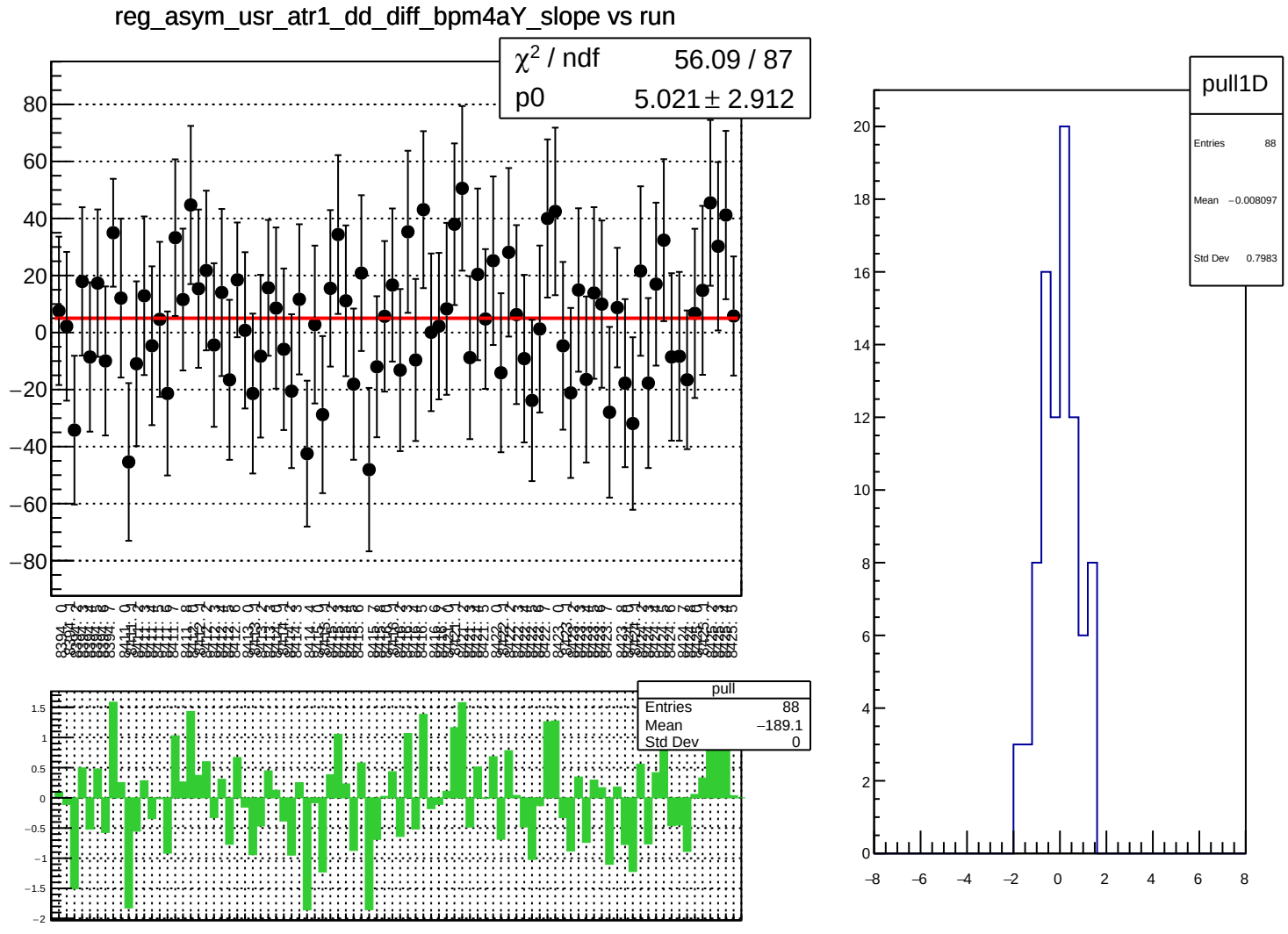

pull1D
Entries 88
Mean 0.01393
Std Dev 0.6363
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

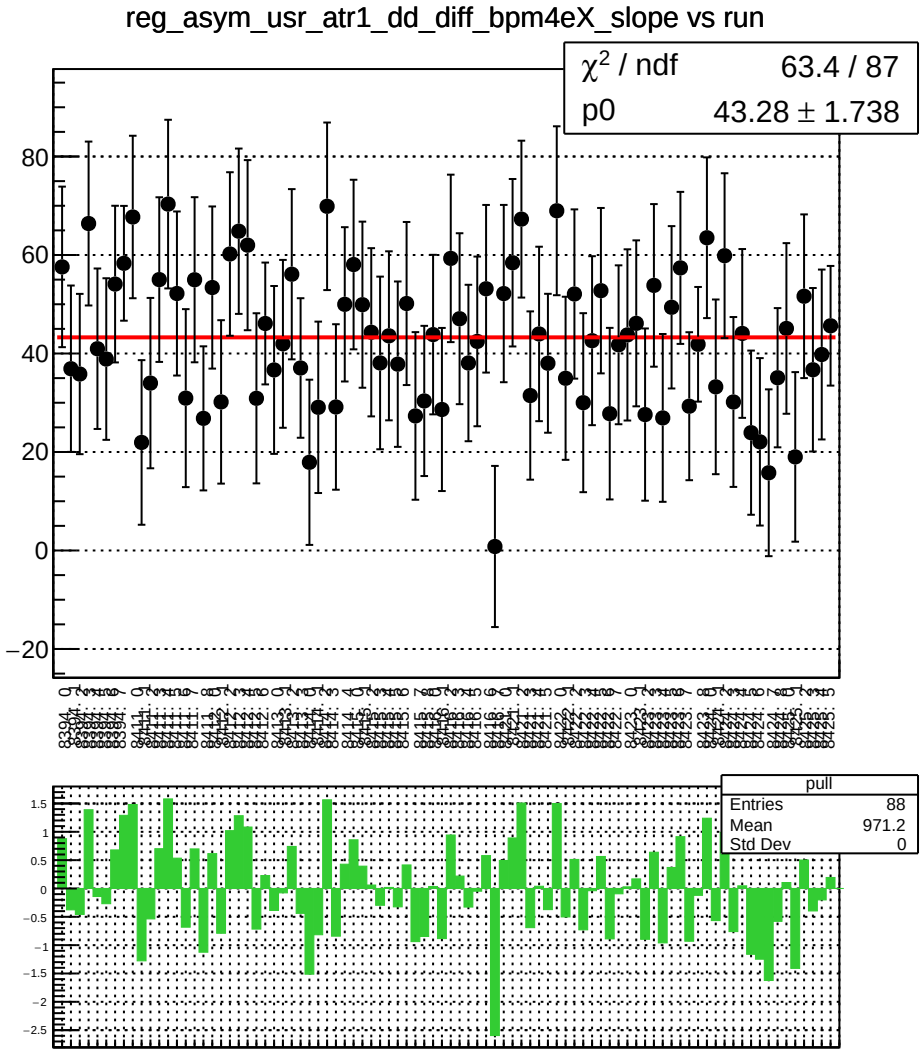

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 30.04 / 87
p0 5.089 ± 5.031
150
100
50
0
−50
−100
pull
Entries 88
Mean 496.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 88
Mean 0.005101
Std Dev 0.5843
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

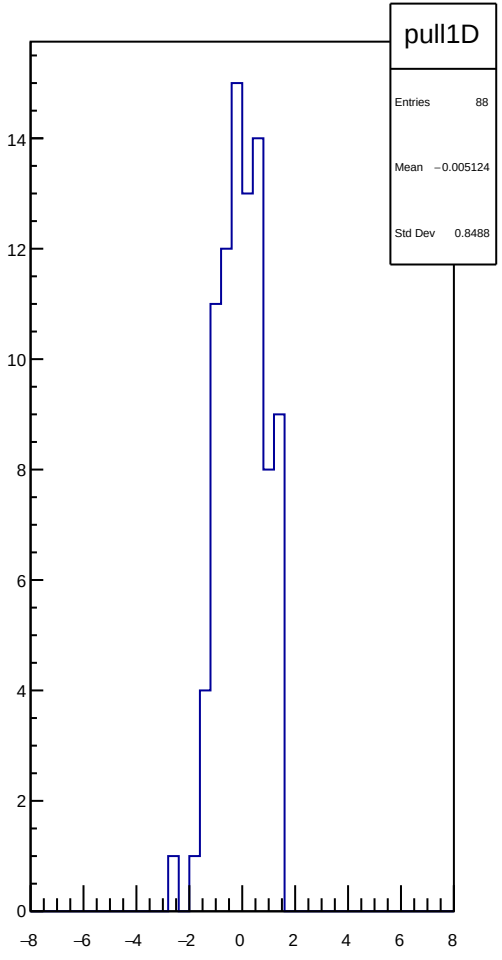

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 72.89 / 87
p0 −50.62 ± 0.3019
pull
Entries 88
Mean 185.5
Std Dev 0

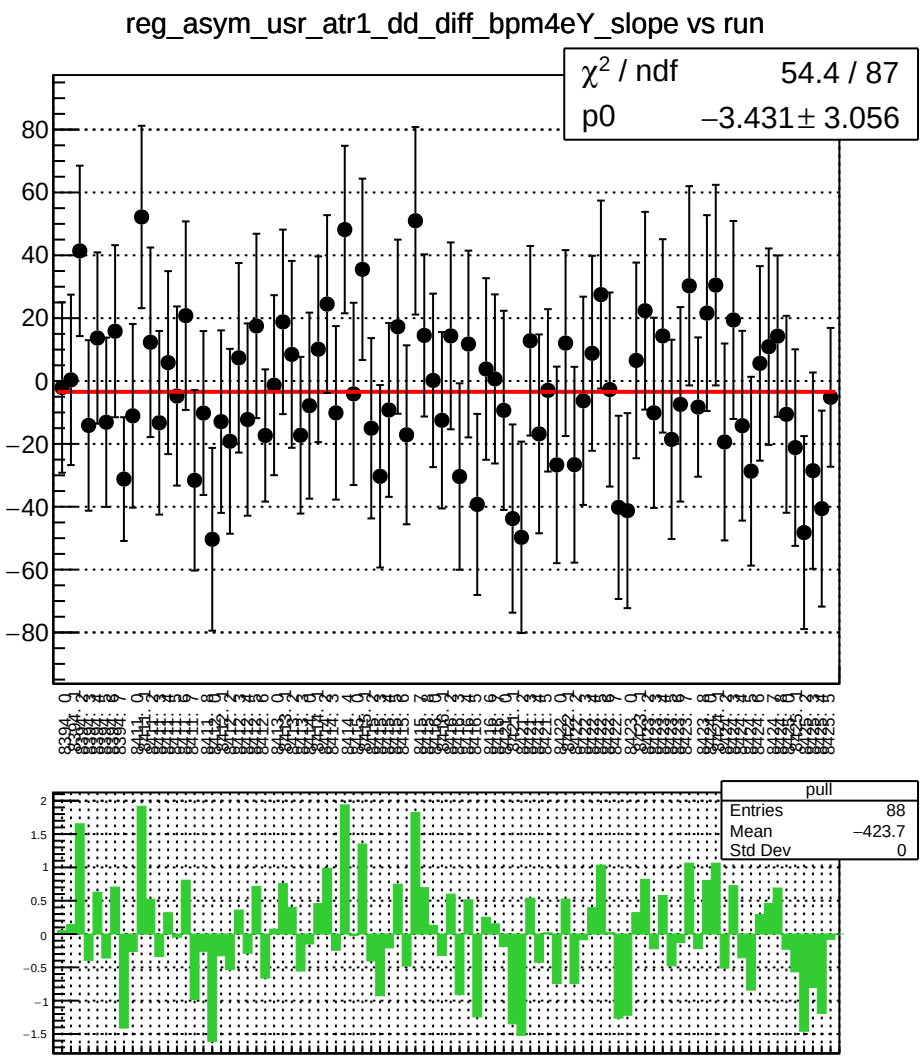

pull1D
Entries 88
Mean −0.06197
Std Dev 0.908

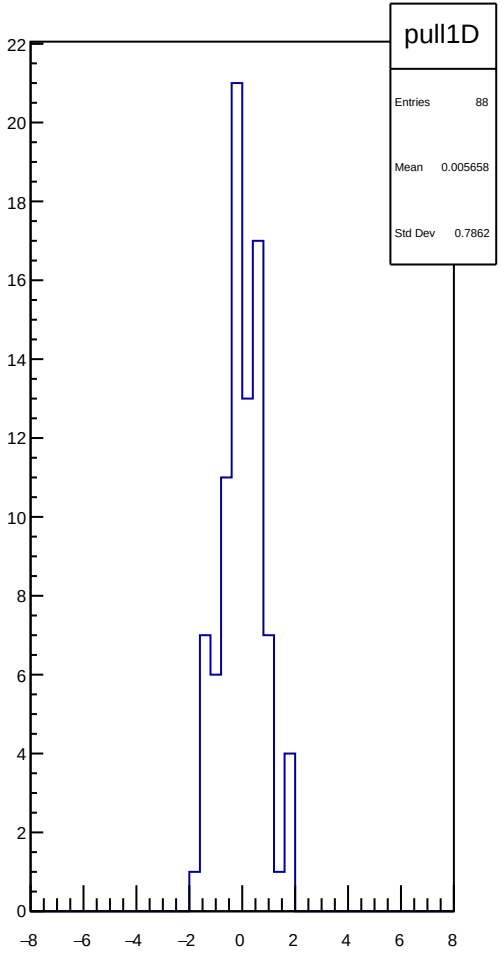

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 64.14 / 87
p0 15.1 ± 1.556
pull
Entries 88
Mean 806.7
Std Dev 0
pull1D
Entries 88
Mean 0.006564
Std Dev 0.8537

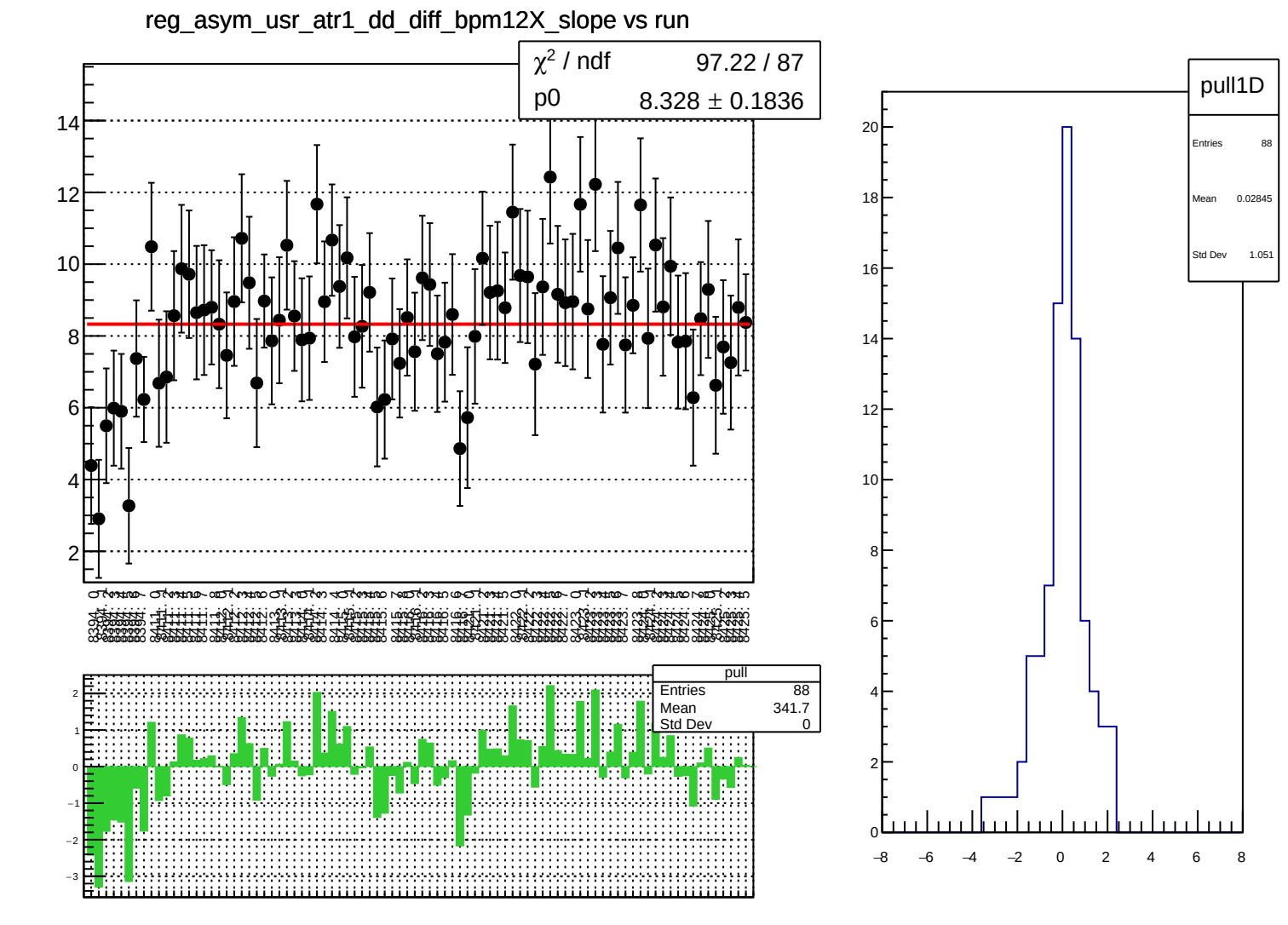

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 56.09 / 87
p0 5.021 ± 2.912
pull
Entries 88
Mean −189.1
Std Dev 0
pull1D
Entries 88
Mean −0.008097
Std Dev 0.7983

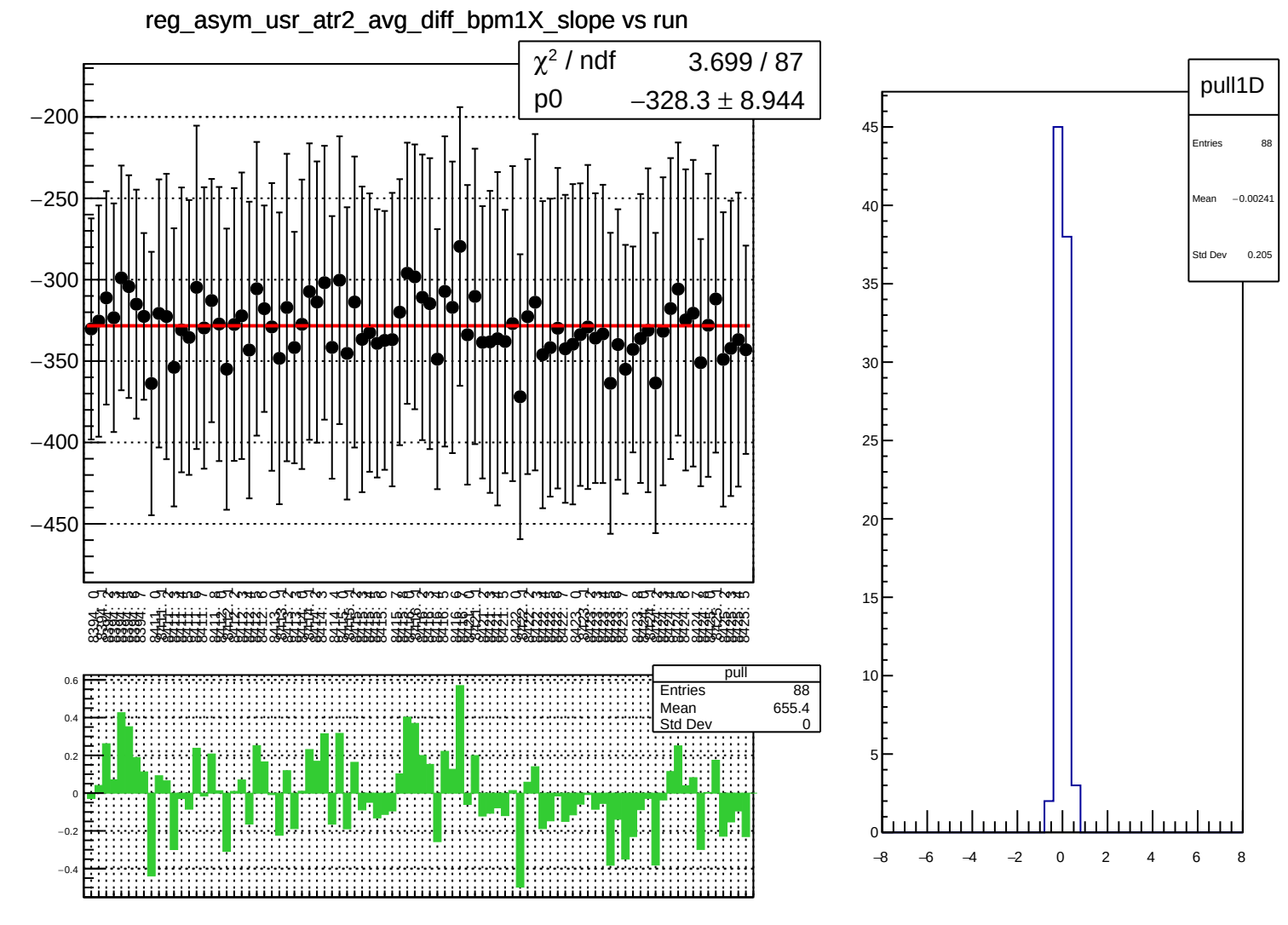

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 63.4 / 87
p0 43.28 ± 1.738
pull
Entries 88
Mean 971.2
Std Dev 0

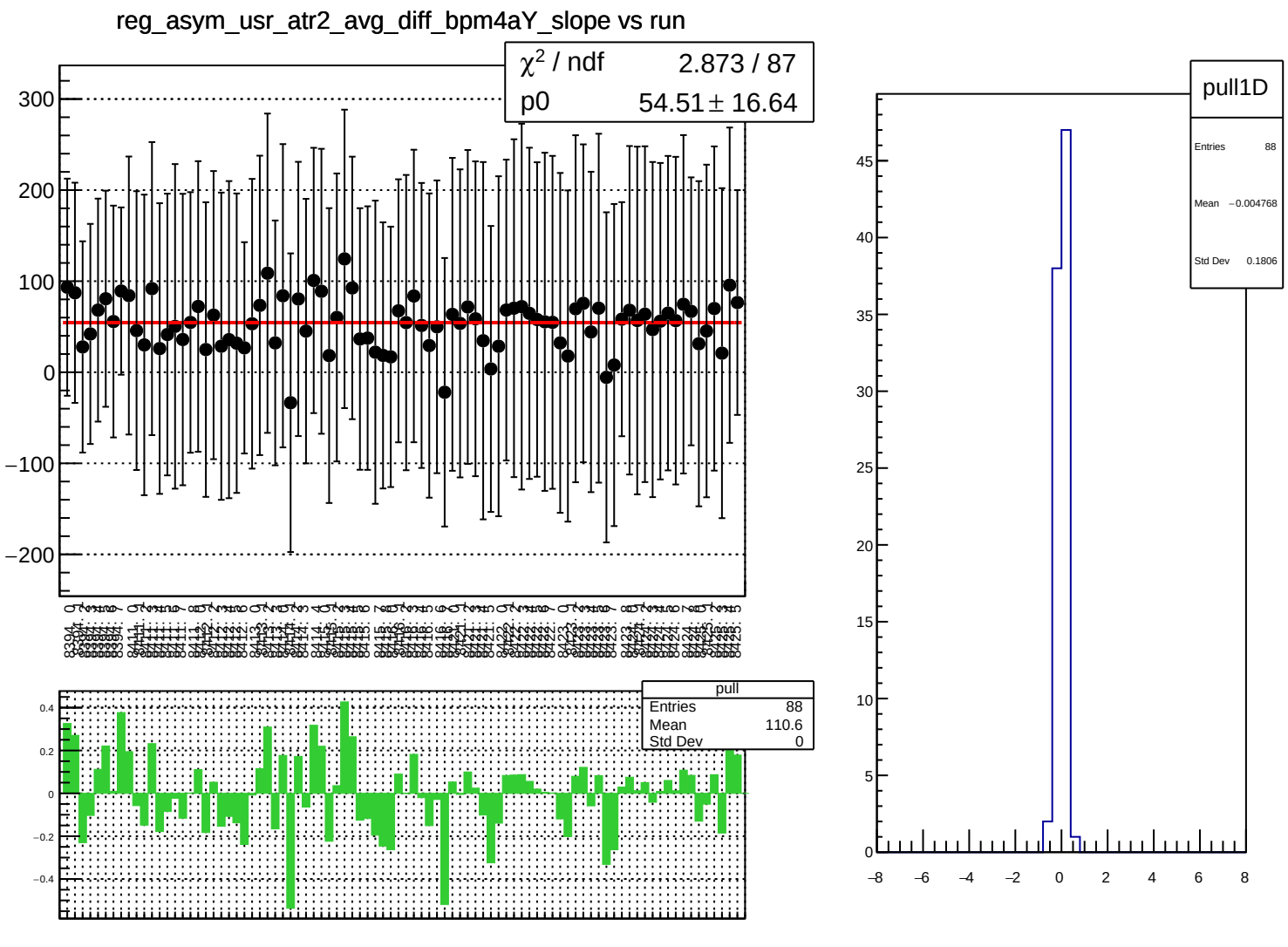

pull1D
Entries 88
Mean −0.005124
Std Dev 0.8488

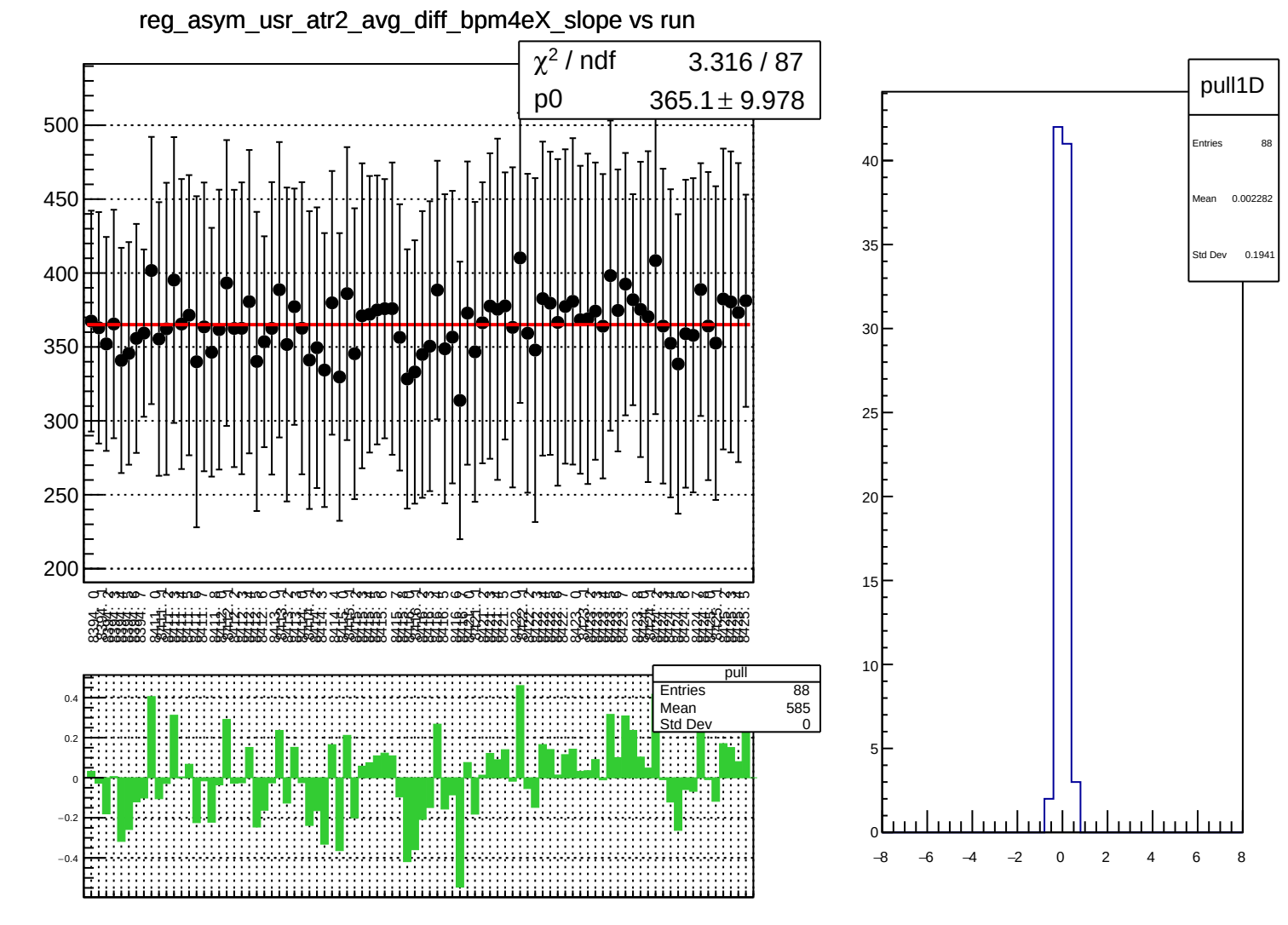

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 54.4 / 87
p0 −3.431 ± 3.056
pull
Entries 88
Mean −423.7
Std Dev 0

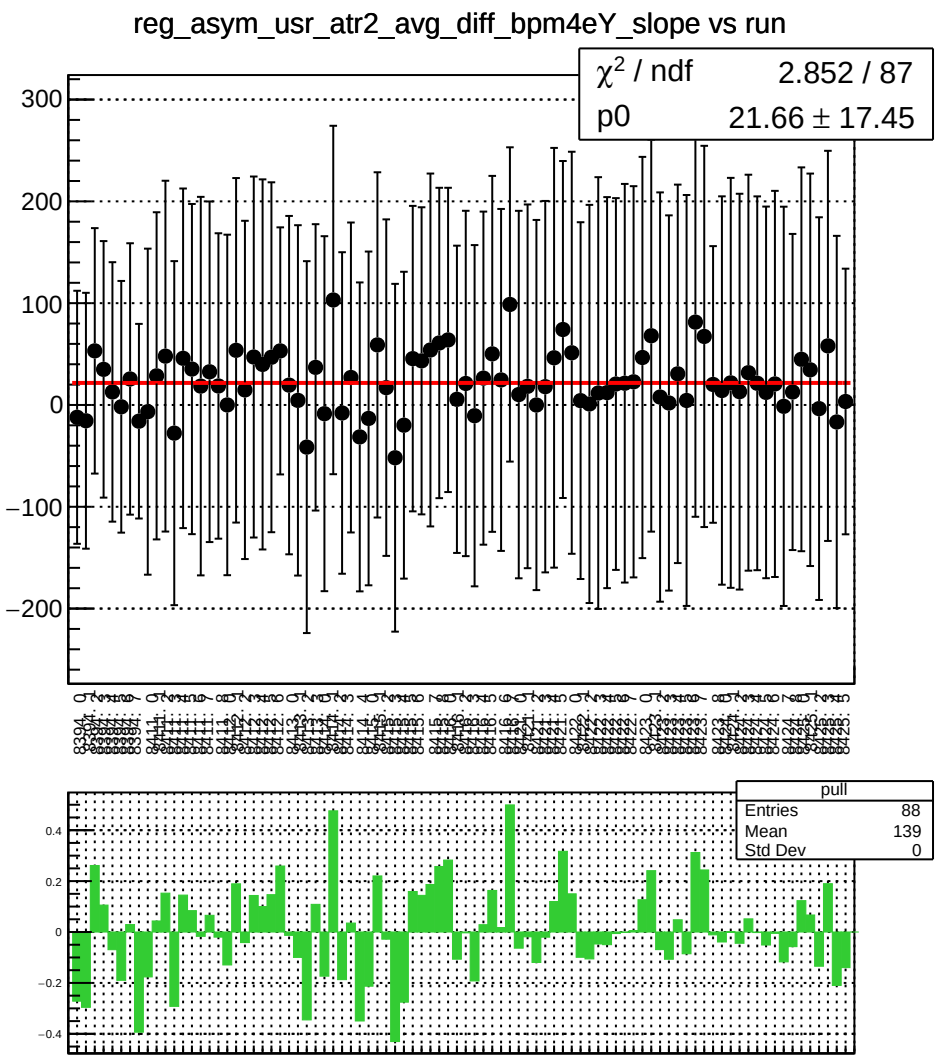

pull1D
Entries 88
Mean 0.005658
Std Dev 0.7862

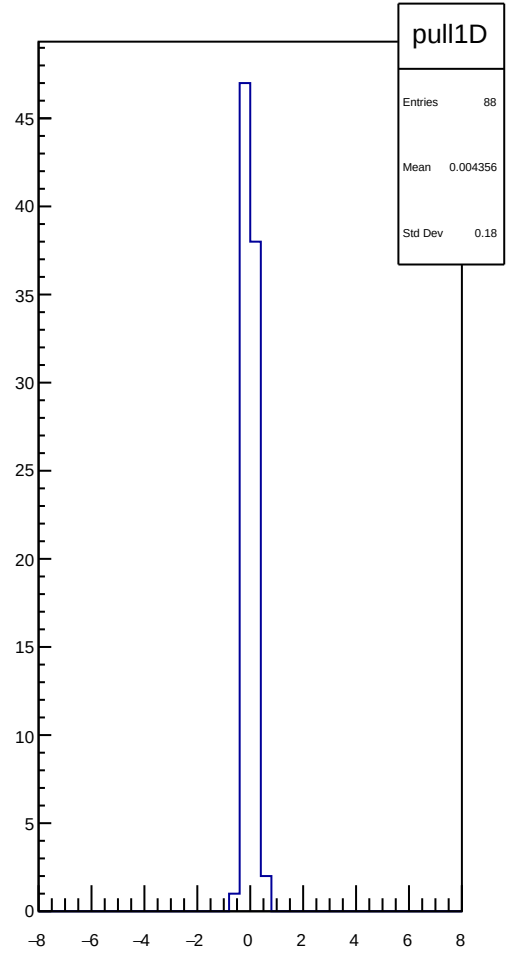

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 97.22 / 87
p0 8.328 ± 0.1836
pull
Entries 88
Mean 341.7
Std Dev 0
pull1D
Entries 88
Mean 0.02845
Std Dev 1.051

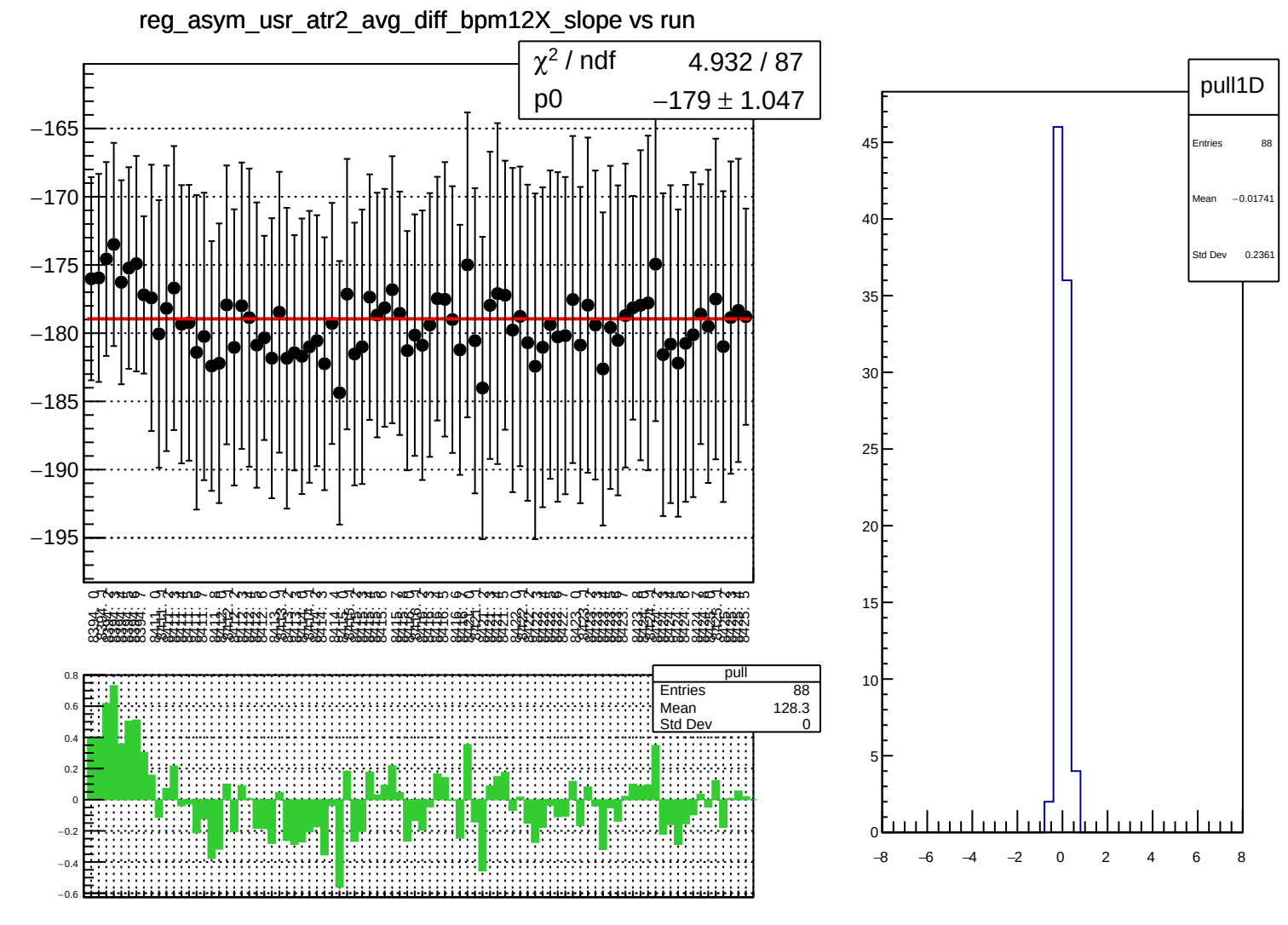

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 3.699 / 87
p0 −328.3 ± 8.944
−200
−250
−300
−350
−400
−450
pull
Entries 88
Mean 655.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 88
Mean −0.00241
Std Dev 0.205
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

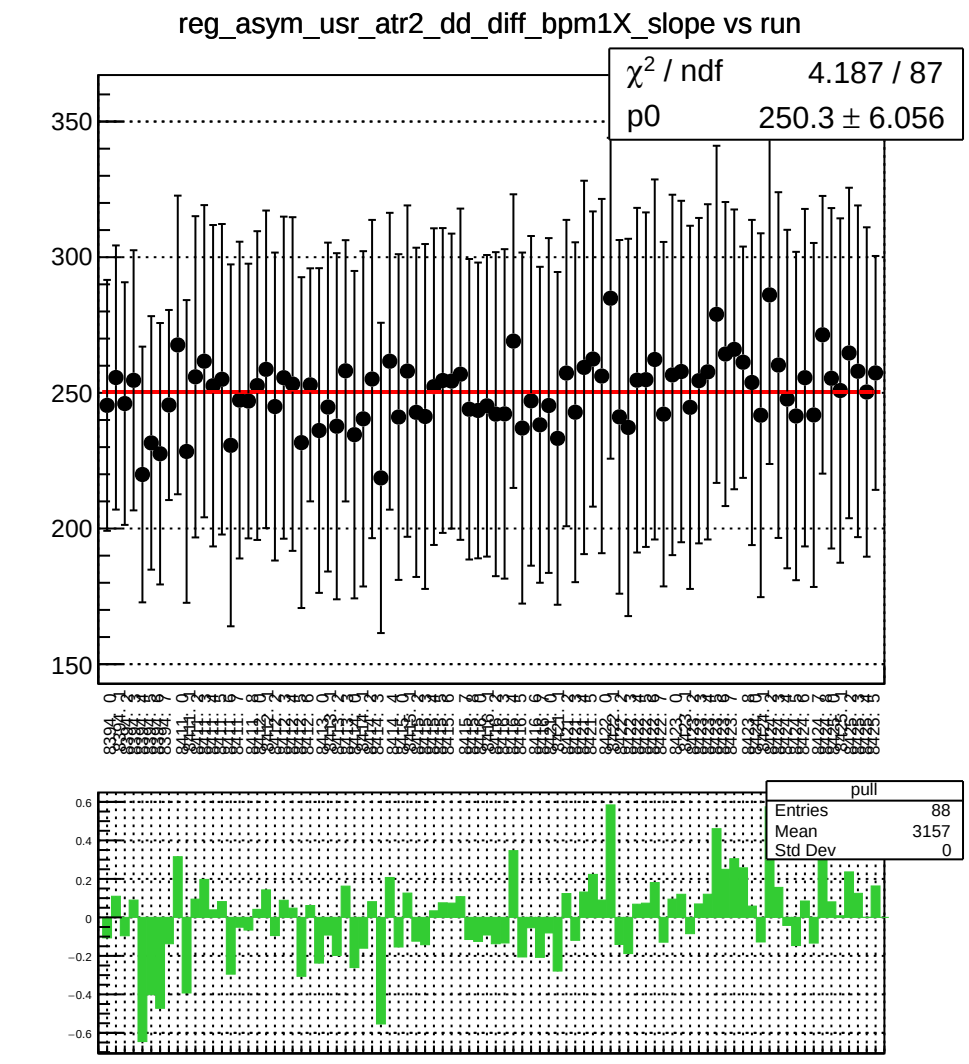

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.873 / 87
p0 54.51 ± 16.64
pull
Entries 88
Mean 110.6
Std Dev 0
pull1D
Entries 88
Mean −0.004768
Std Dev 0.1806

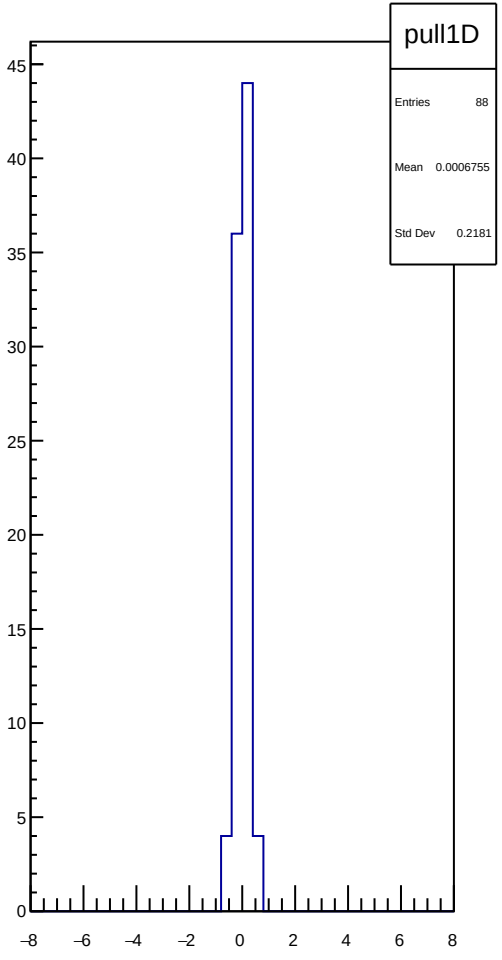

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.316 / 87
p0 365.1 ± 9.978
pull
Entries 88
Mean 585
Std Dev 0
pull1D
Entries 88
Mean 0.002282
Std Dev 0.1941

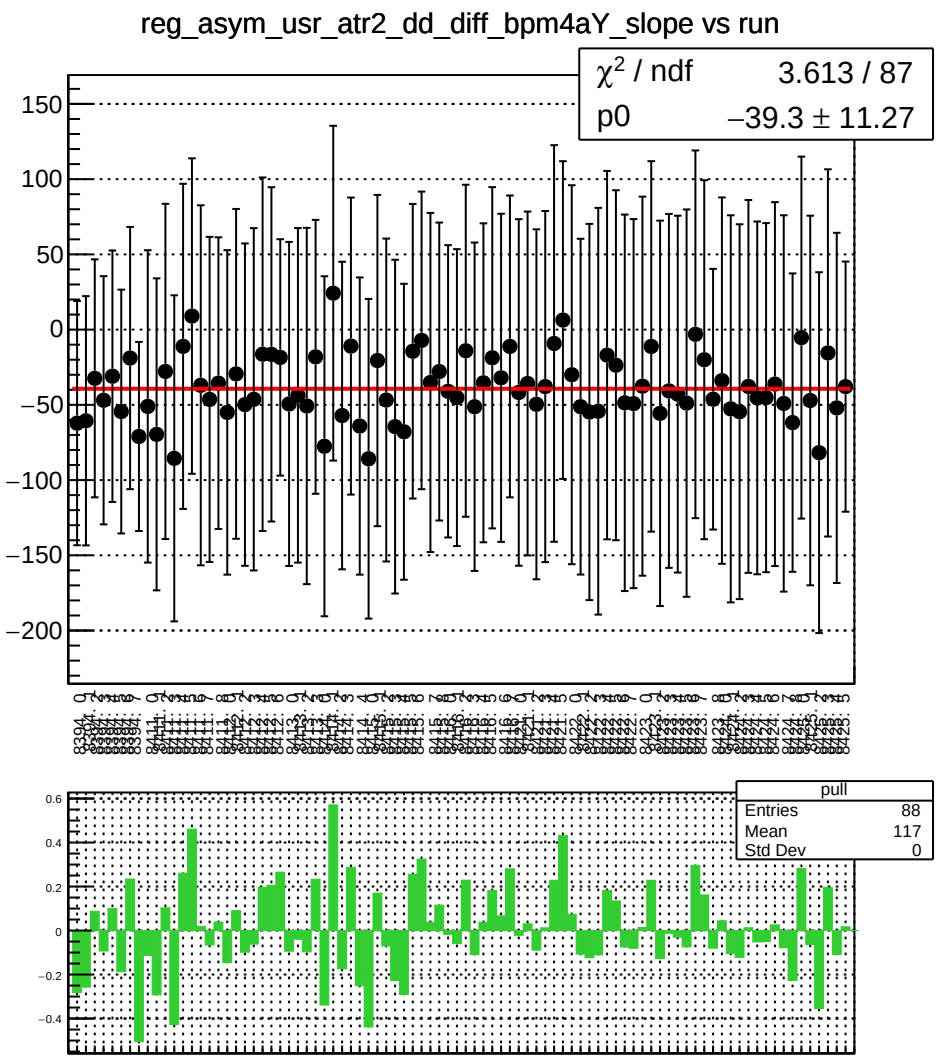

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.852 / 87
p0 21.66 ± 17.45
300
200
100
0
−100
−200
pull
Entries 88
Mean 139
Std Dev 0
0.4
0.2
0
−0.2
−0.4

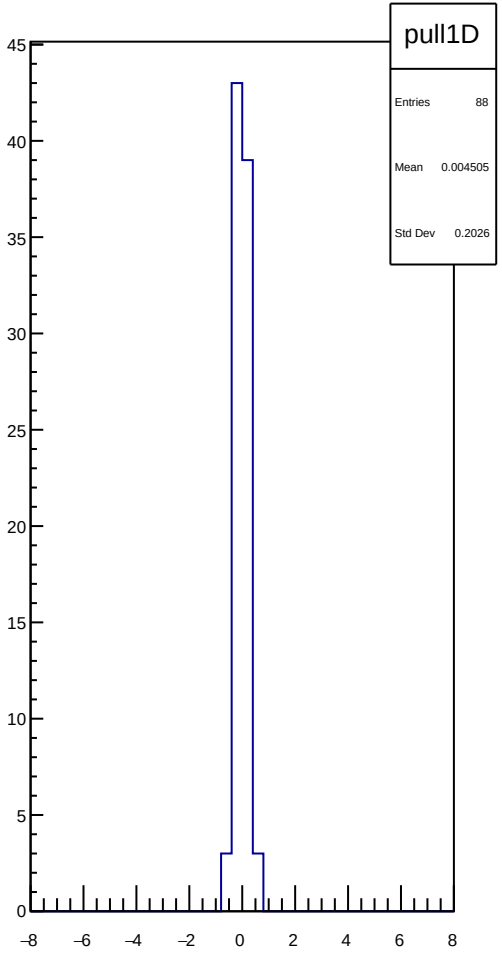

pull1D
Entries 88
Mean 0.004356
Std Dev 0.18
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

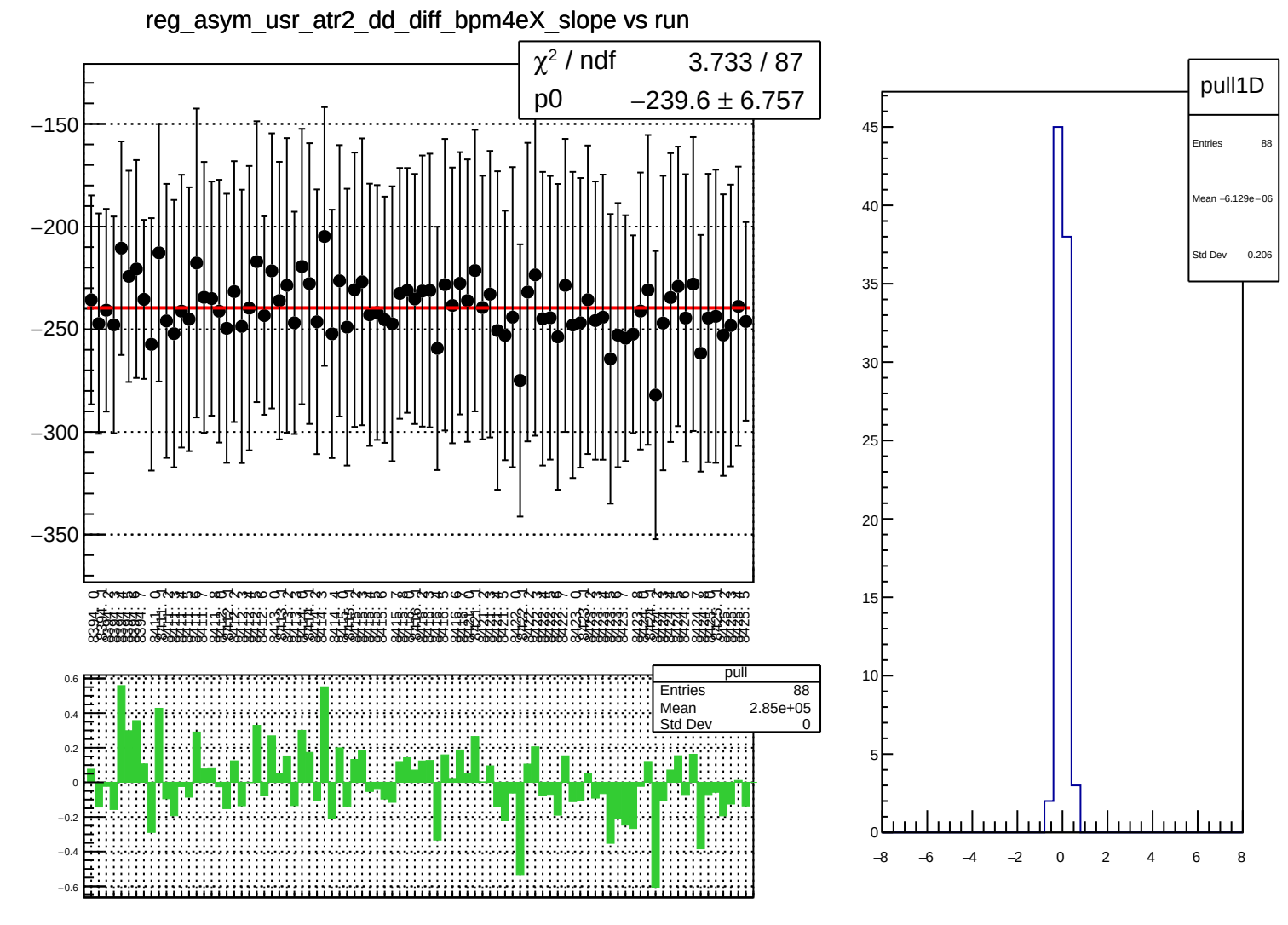

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 4.932 / 87
p0 −179 ± 1.047
pull
Entries 88
Mean 128.3
Std Dev 0
pull1D
Entries 88
Mean −0.01741
Std Dev 0.2361

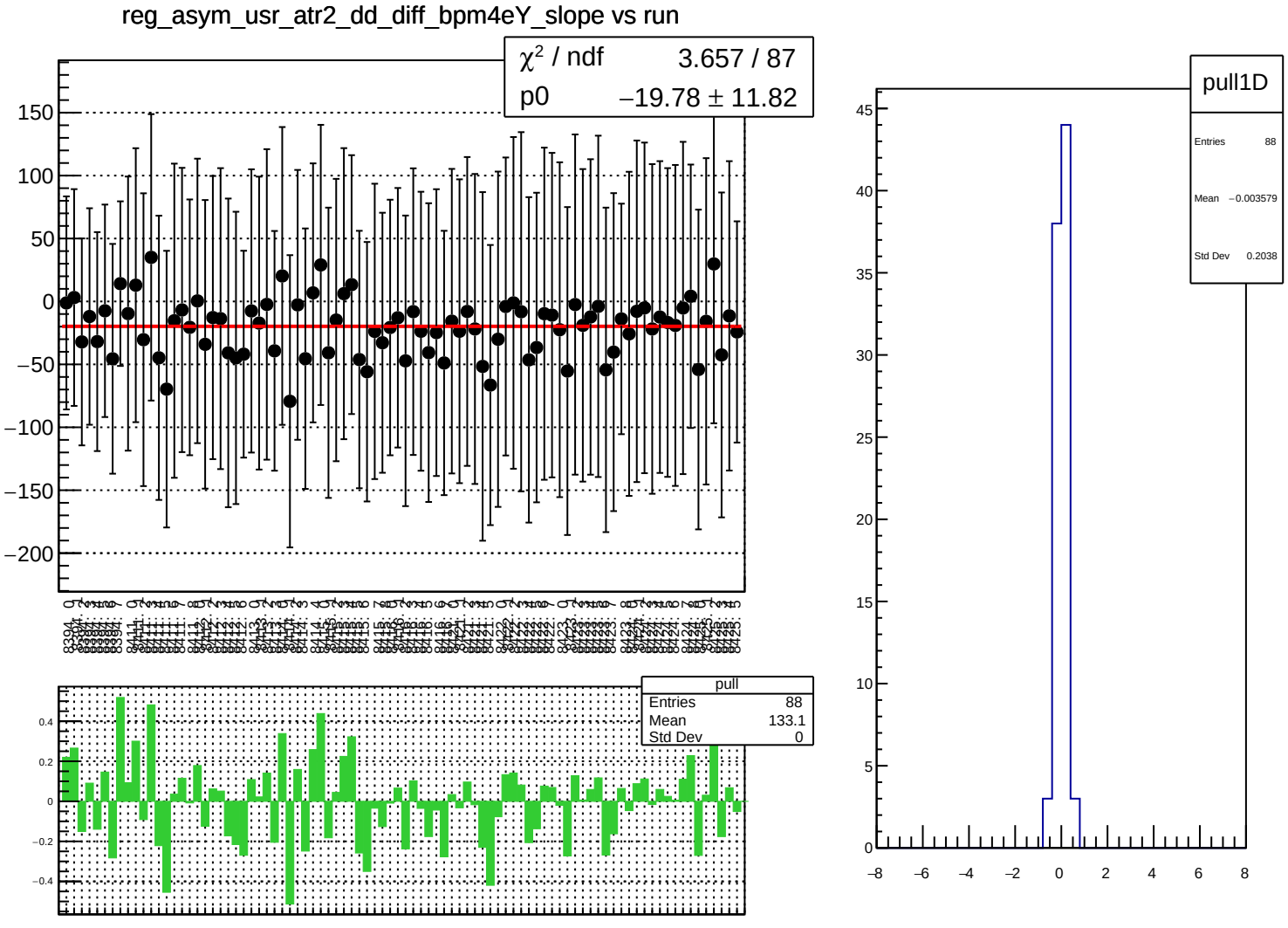

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 4.187 / 87
p0 250.3 ± 6.056
350
300
250
200
150
pull
Entries 88
Mean 3157
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

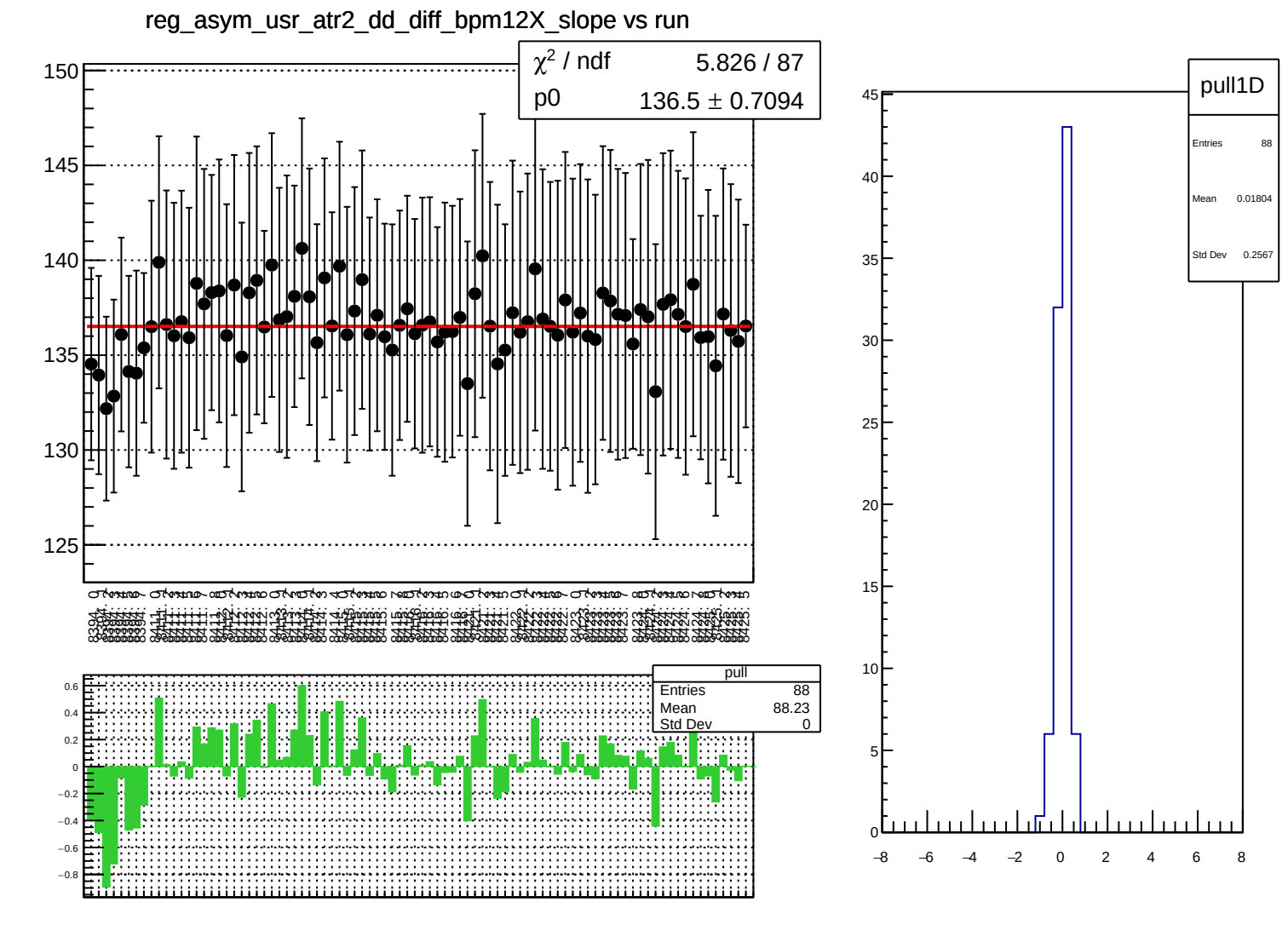

pull1D
Entries 88
Mean 0.0006755
Std Dev 0.2181
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

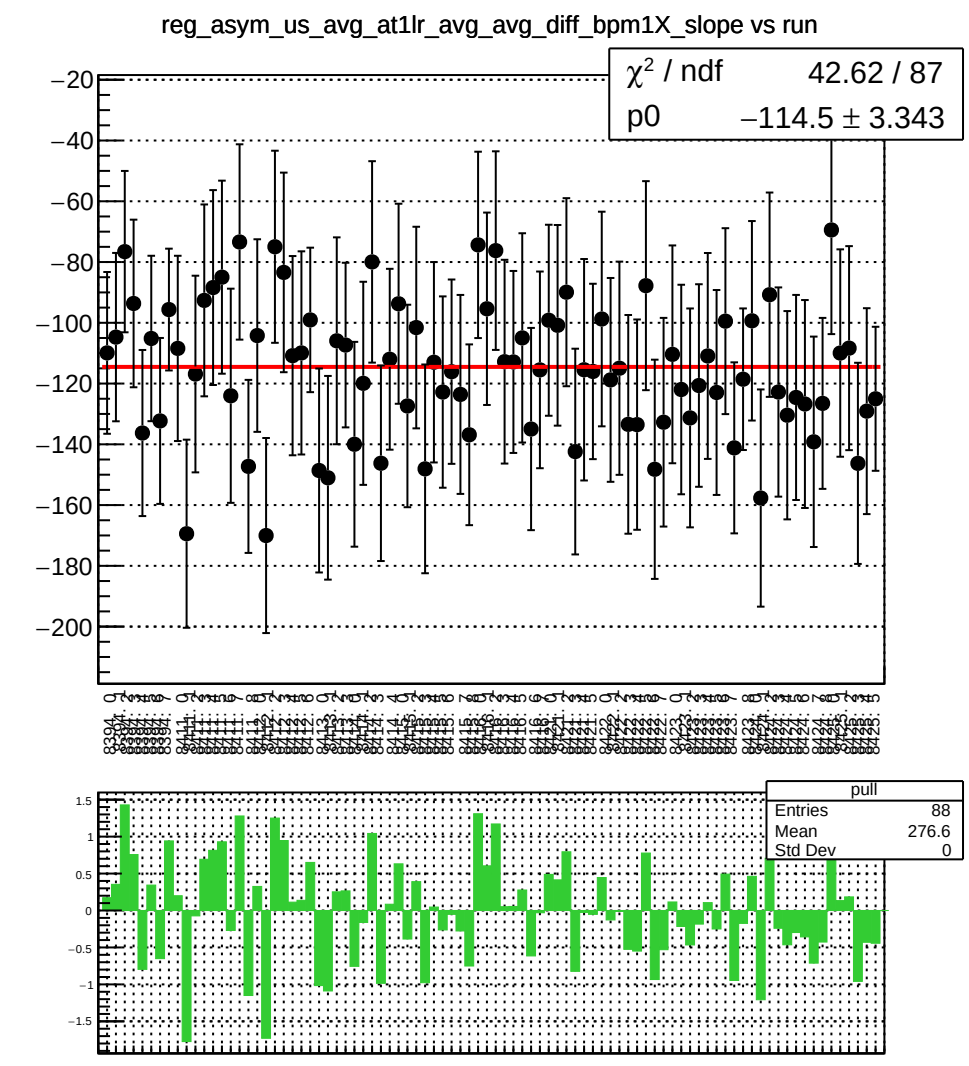

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.613 / 87
p0 −39.3 ± 11.27
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 117
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

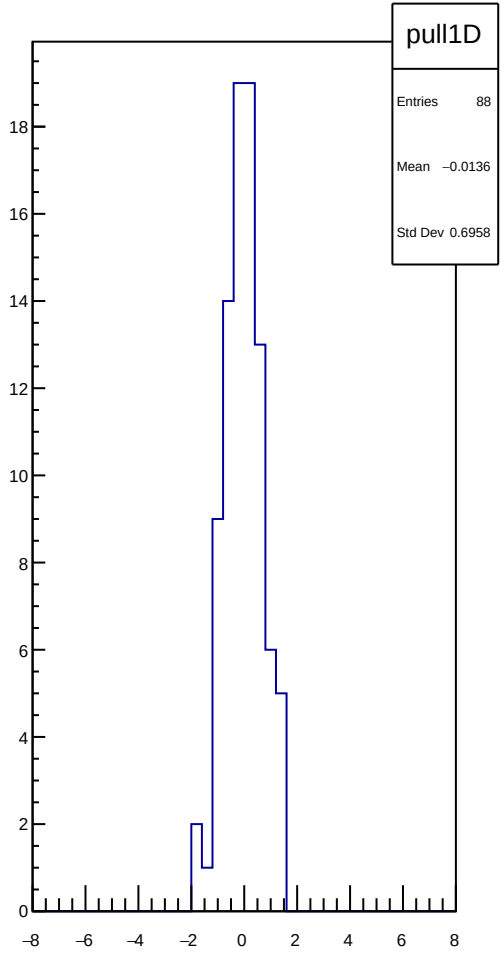

pull1D
Entries 88
Mean 0.004505
Std Dev 0.2026
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

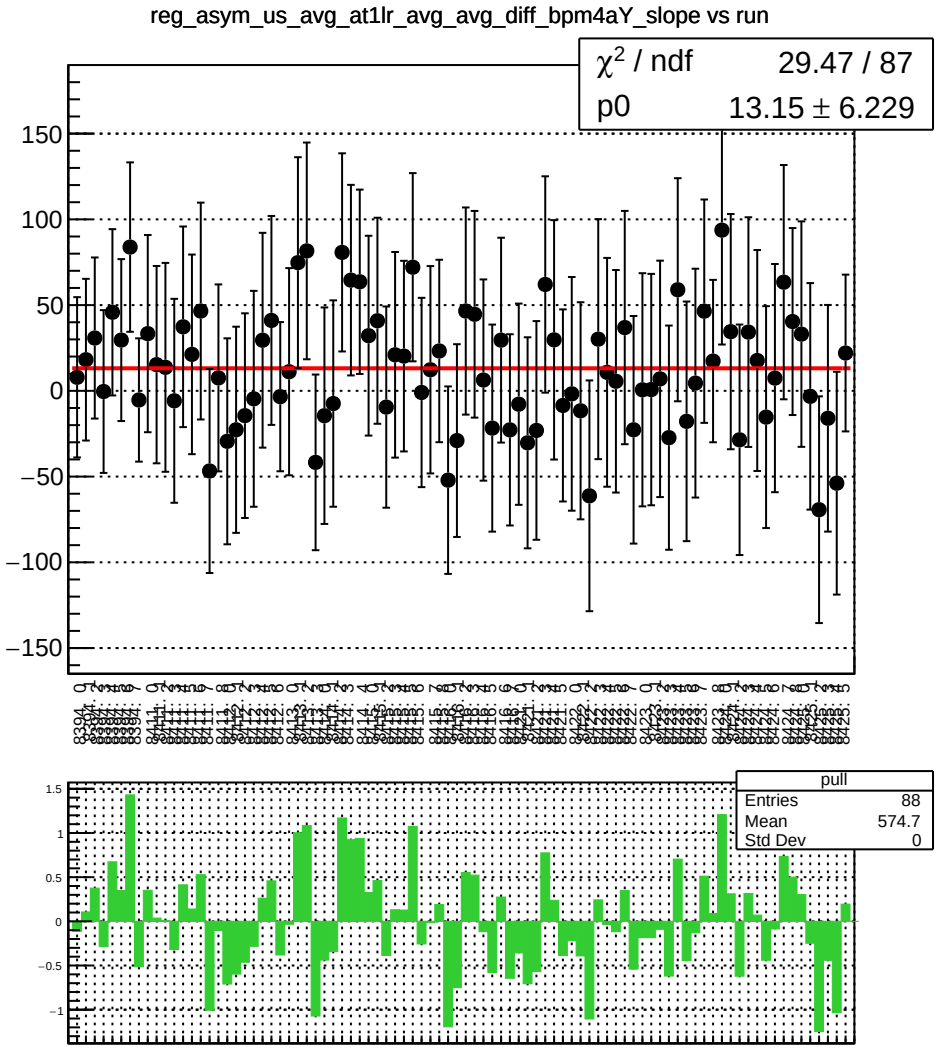

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.733 / 87
p0 −239.6 ± 6.757
−150
−200
−250
−300
−350
pull
Entries 88
Mean 2.85e+05
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean −6.129e−06
Std Dev 0.206
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

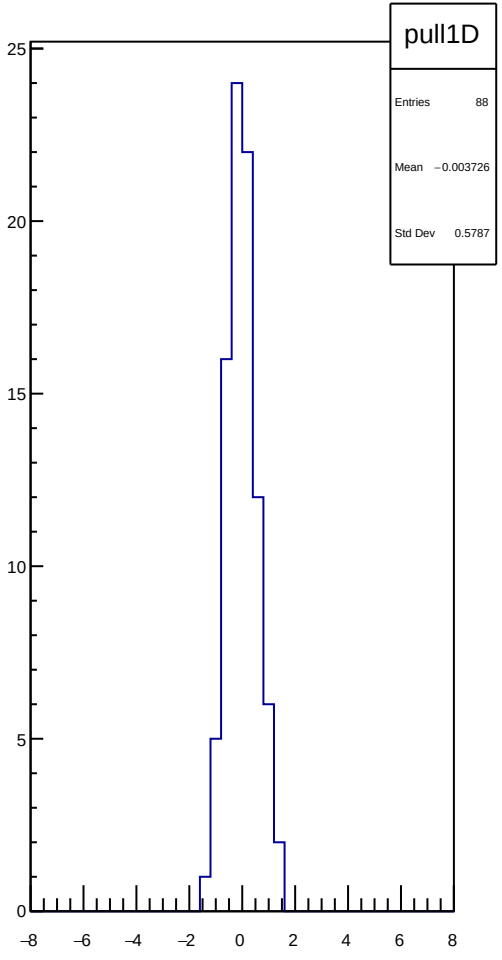

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.657 / 87
p0 −19.78 ± 11.82
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 133.1
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 88
Mean −0.003579
Std Dev 0.2038
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

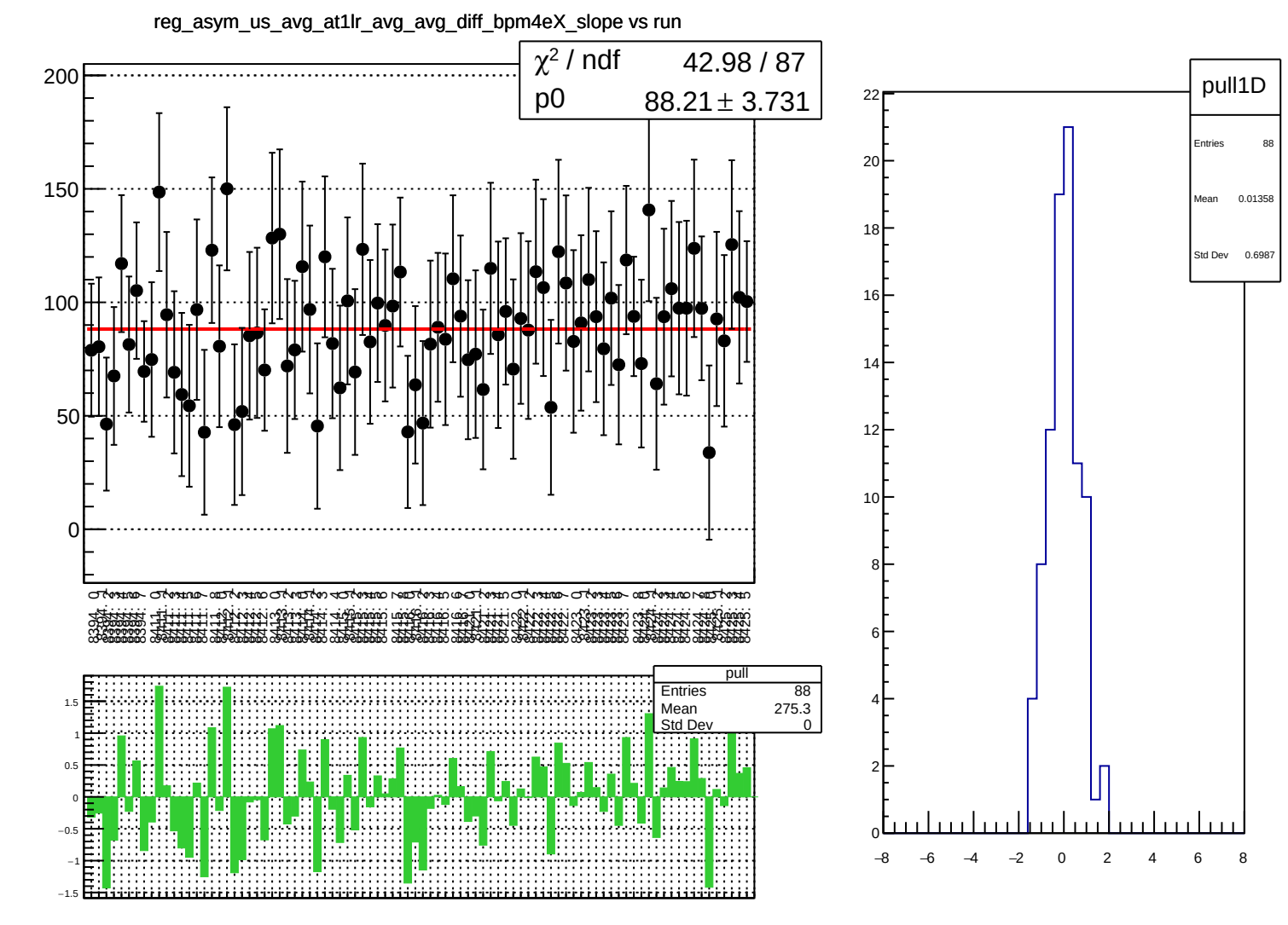

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 5.826 / 87
p0 136.5 ± 0.7094
150
145
140
135
130
125
pull
Entries 88
Mean 88.23
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 88
Mean 0.01804
Std Dev 0.2567
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

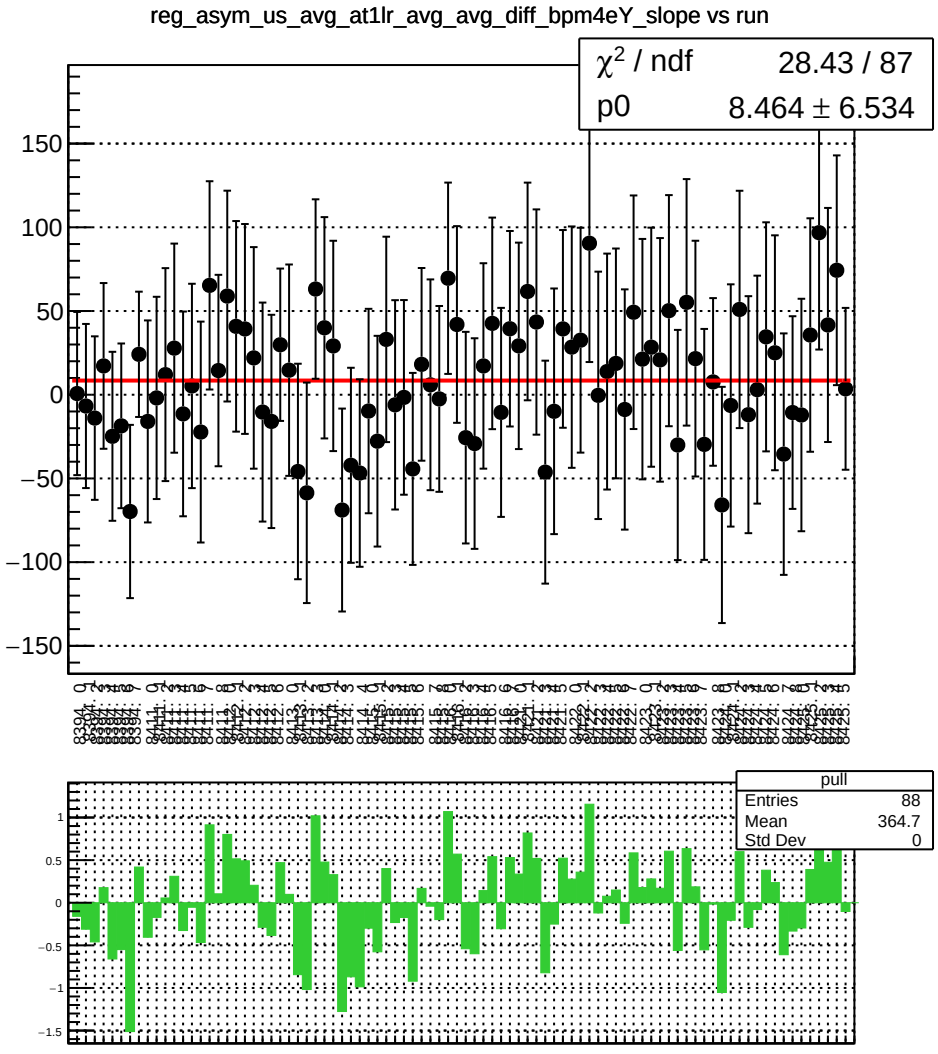

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 42.62 / 87
p0 −114.5 ± 3.343
pull
Entries 88
Mean 276.6
Std Dev 0

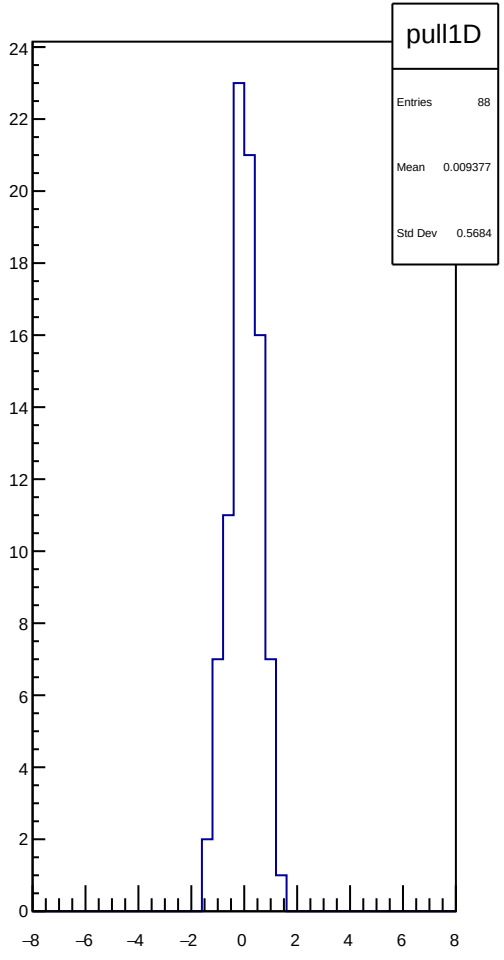

pull1D
Entries 88
Mean −0.0136
Std Dev 0.6958

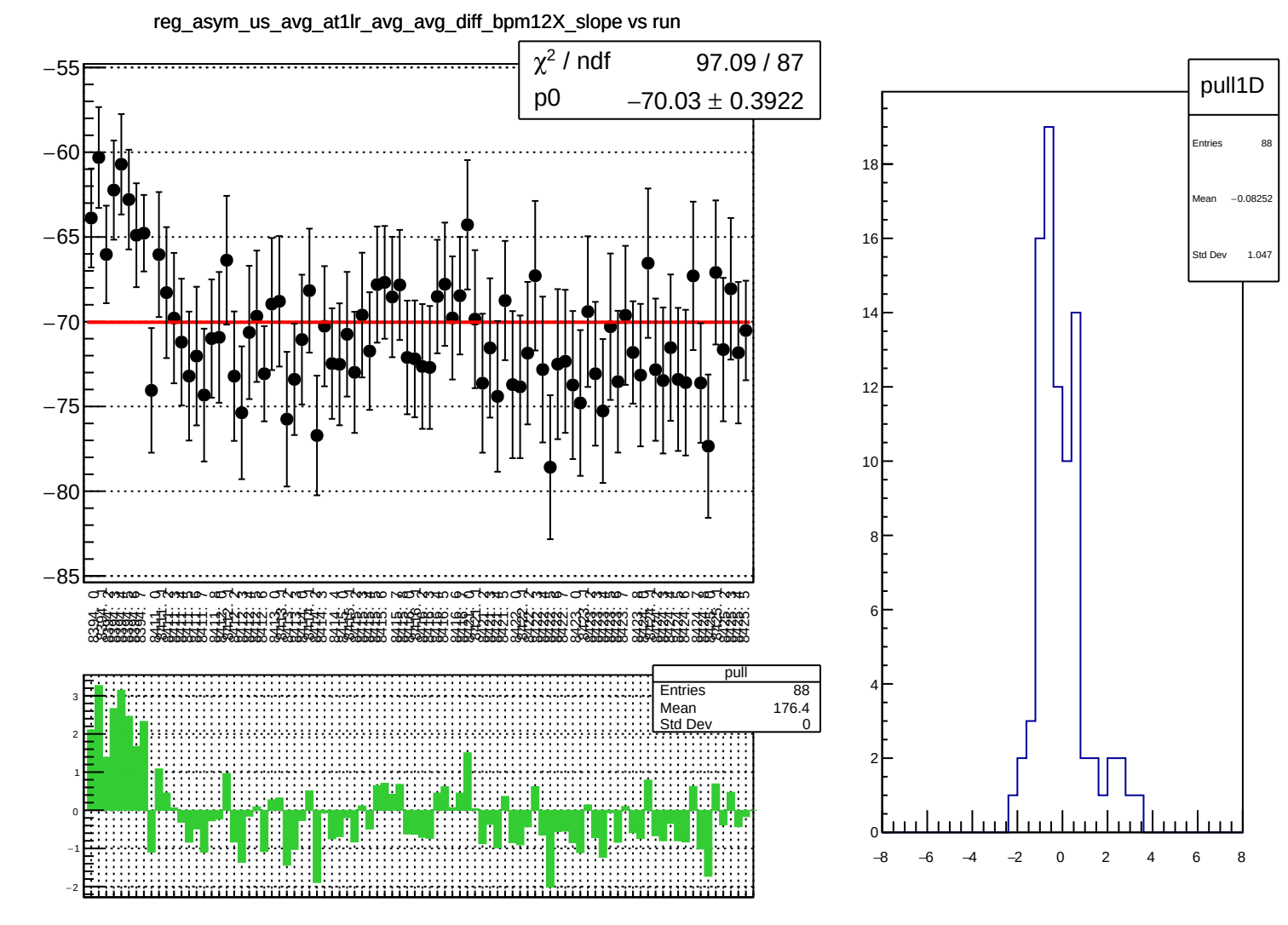

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 29.47 / 87
p0 13.15 ± 6.229
pull
Entries 88
Mean 574.7
Std Dev 0

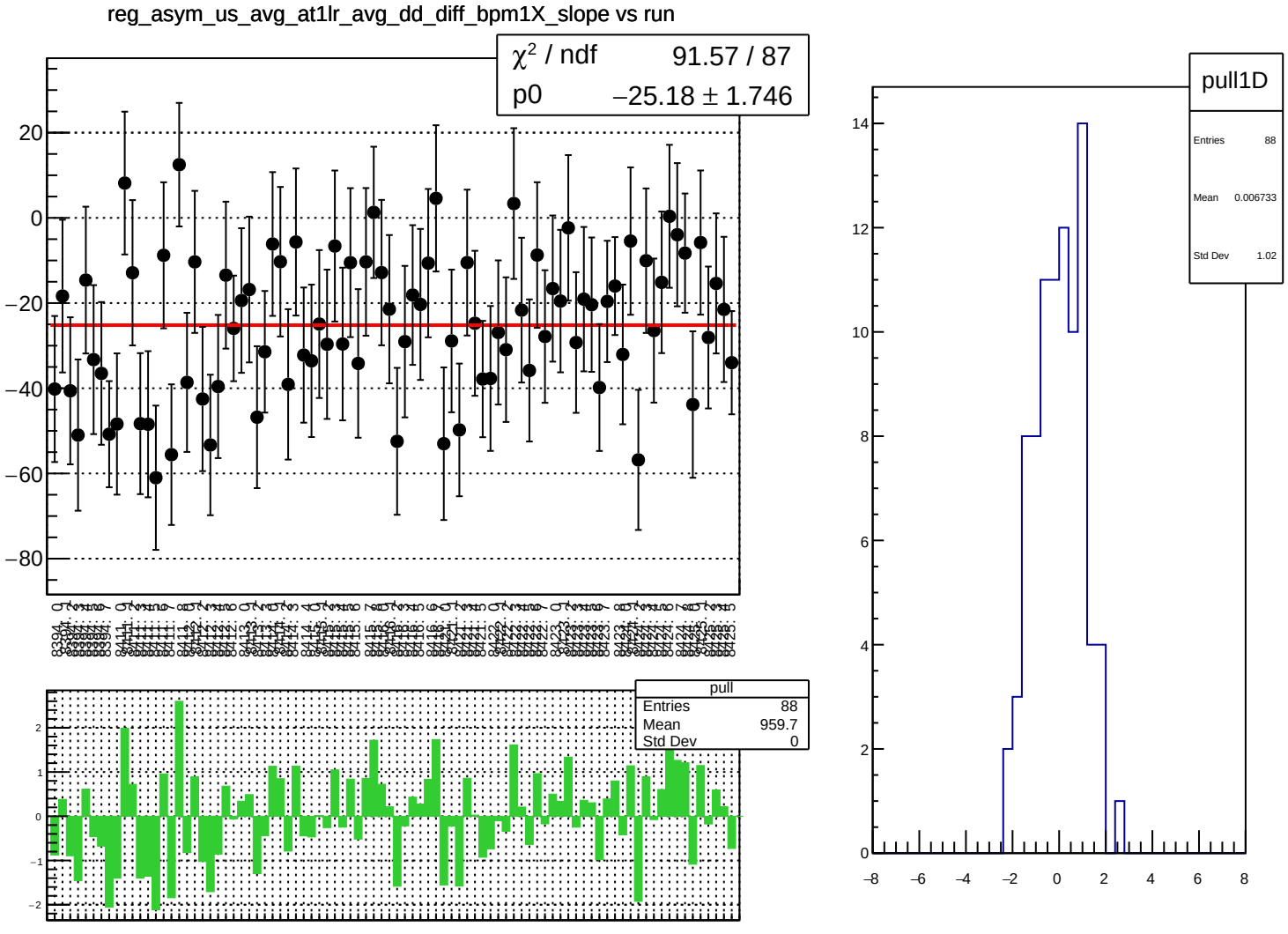

pull1D
Entries 88
Mean −0.003726
Std Dev 0.5787

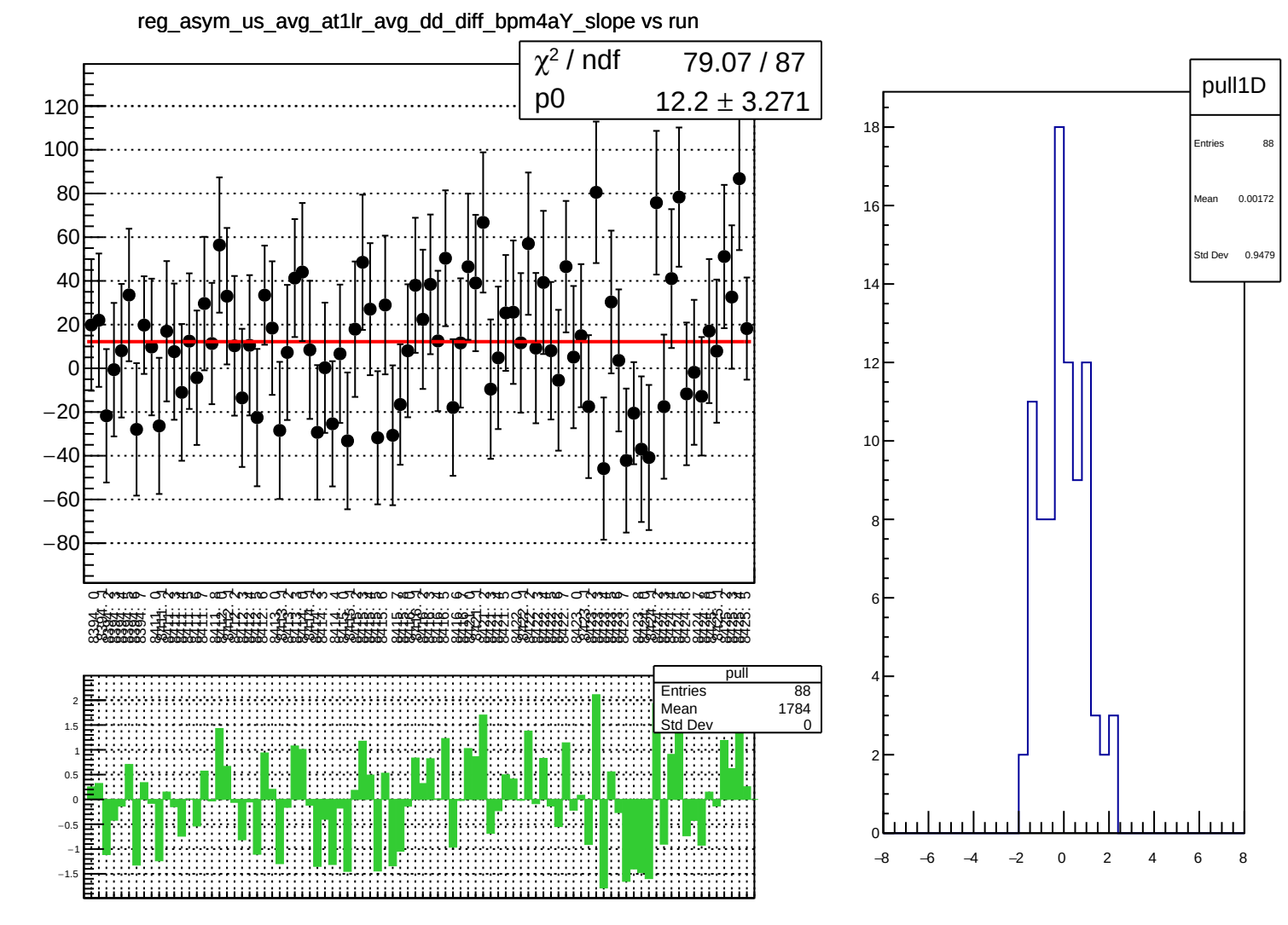

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 42.98 / 87
p0 88.21 ± 3.731
pull
Entries 88
Mean 275.3
Std Dev 0
pull1D
Entries 88
Mean 0.01358
Std Dev 0.6987

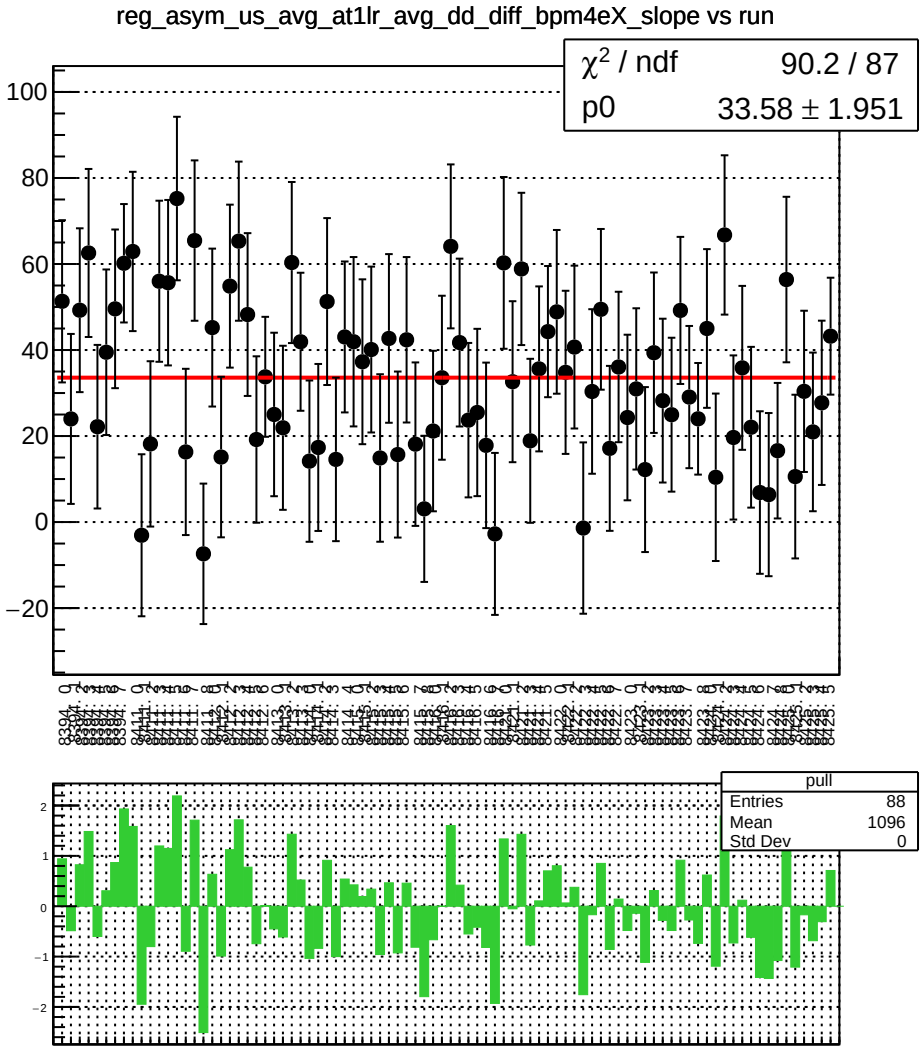

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 28.43 / 87
p0 8.464 ± 6.534
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 364.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

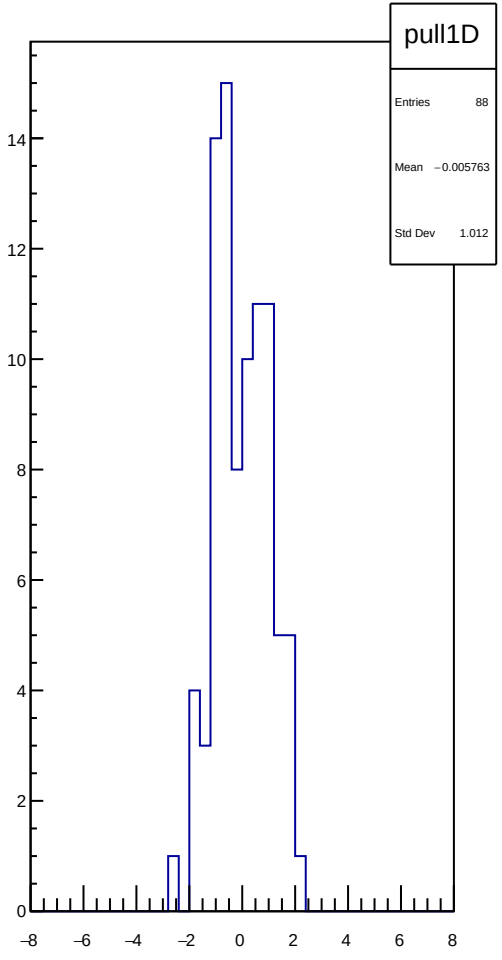

pull1D
Entries 88
Mean 0.009377
Std Dev 0.5684
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

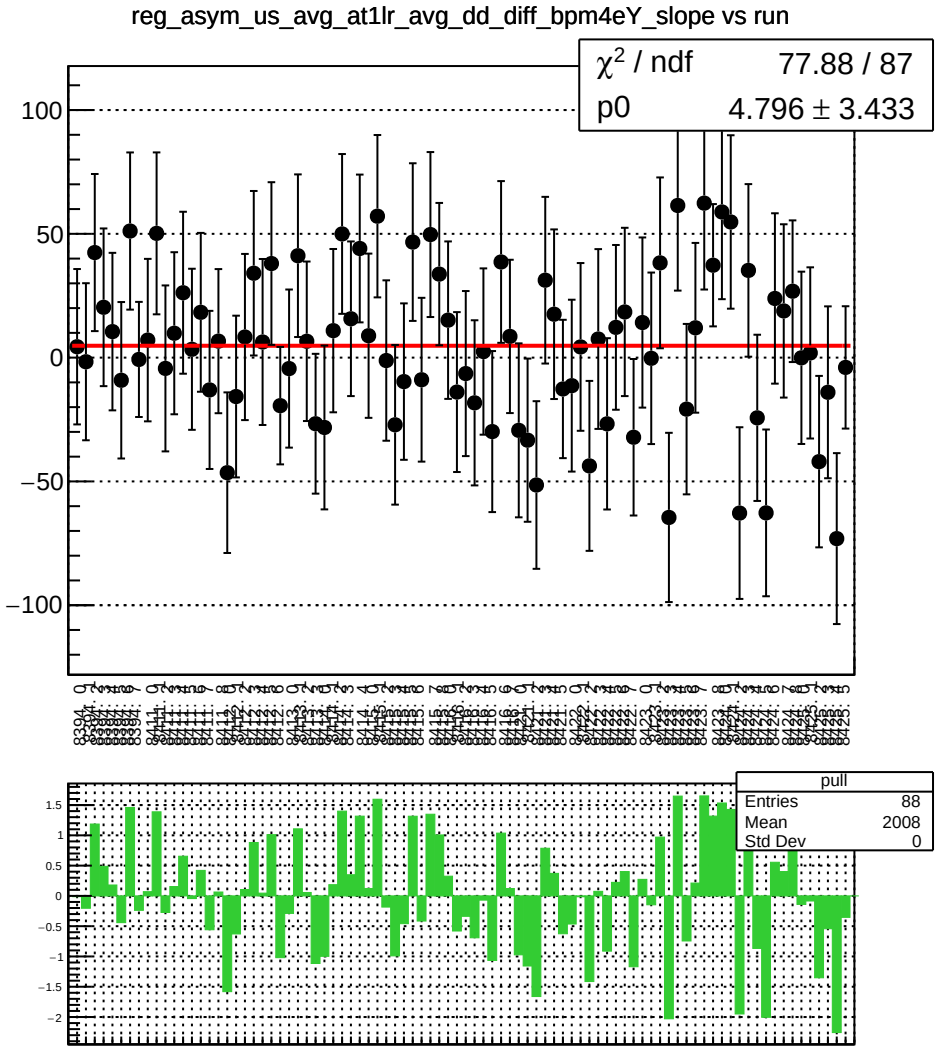

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 97.09 / 87
p0 −70.03 ± 0.3922
pull
Entries 88
Mean 176.4
Std Dev 0
pull1D
Entries 88
Mean −0.08252
Std Dev 1.047

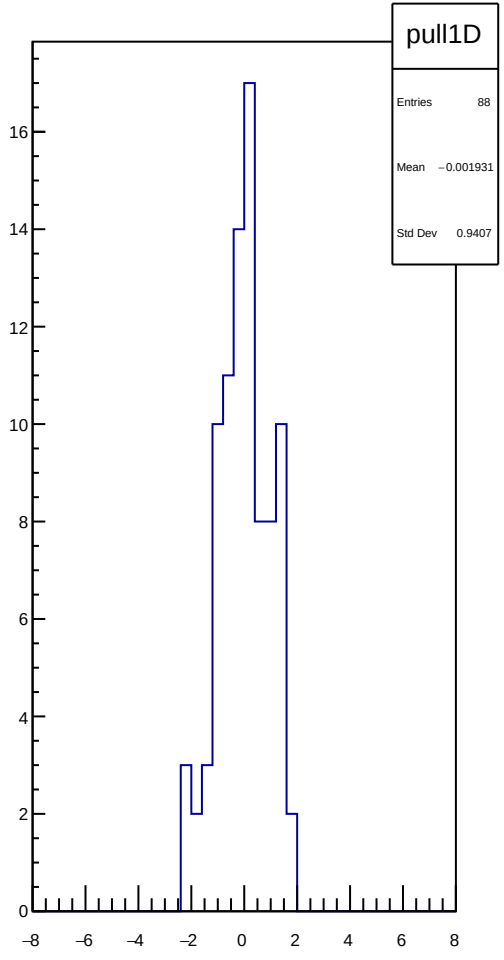

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 91.57 / 87
p0 −25.18 ± 1.746
pull
Entries 88
Mean 959.7
Std Dev 0
pull1D
Entries 88
Mean 0.006733
Std Dev 1.02

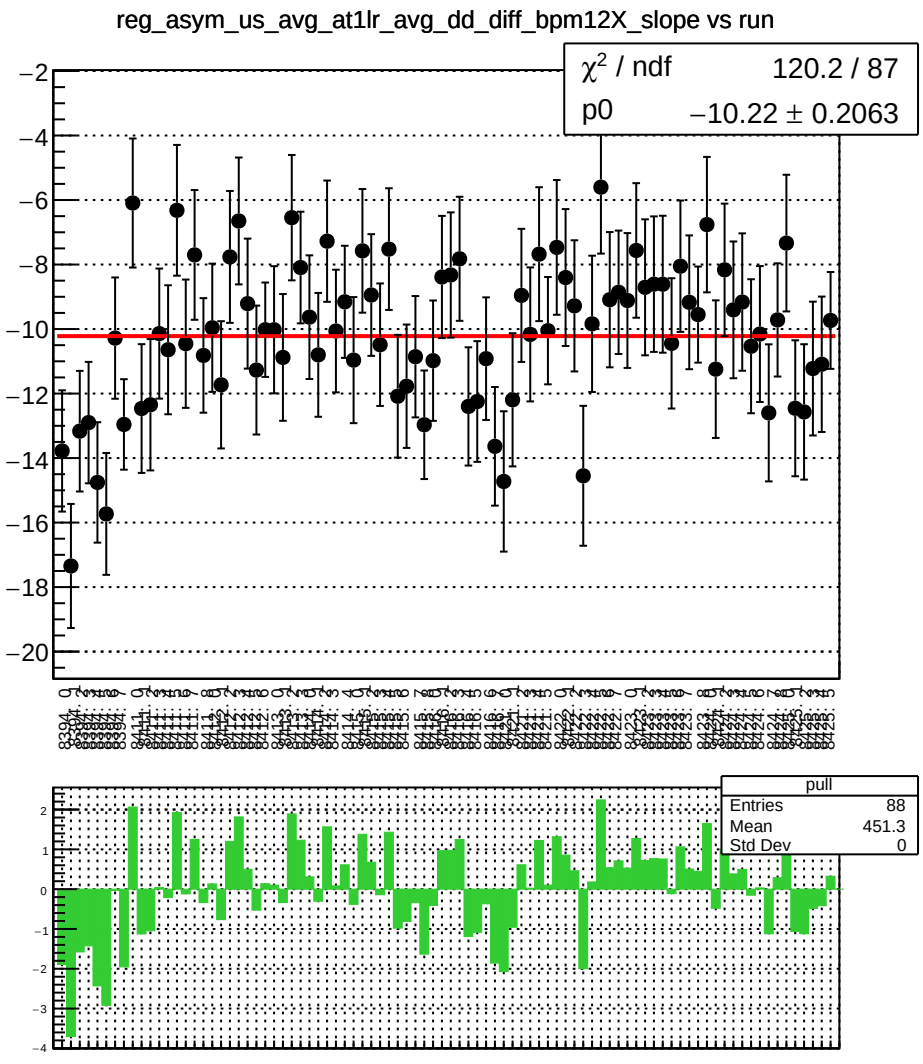

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 79.07 / 87
p0 12.2 ± 3.271
pull
Entries 88
Mean 1784
Std Dev 0
pull1D
Entries 88
Mean 0.00172
Std Dev 0.9479

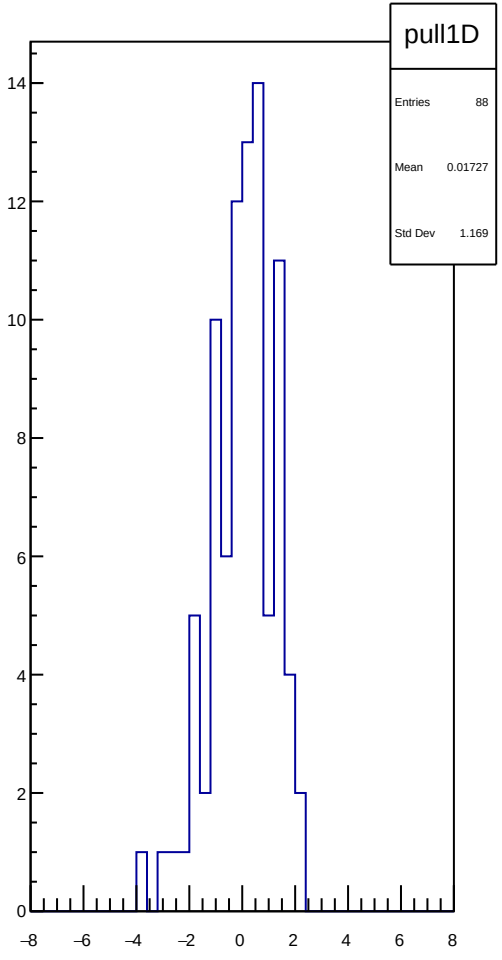

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 90.2 / 87
p0 33.58 ± 1.951
pull
Entries 88
Mean 1096
Std Dev 0

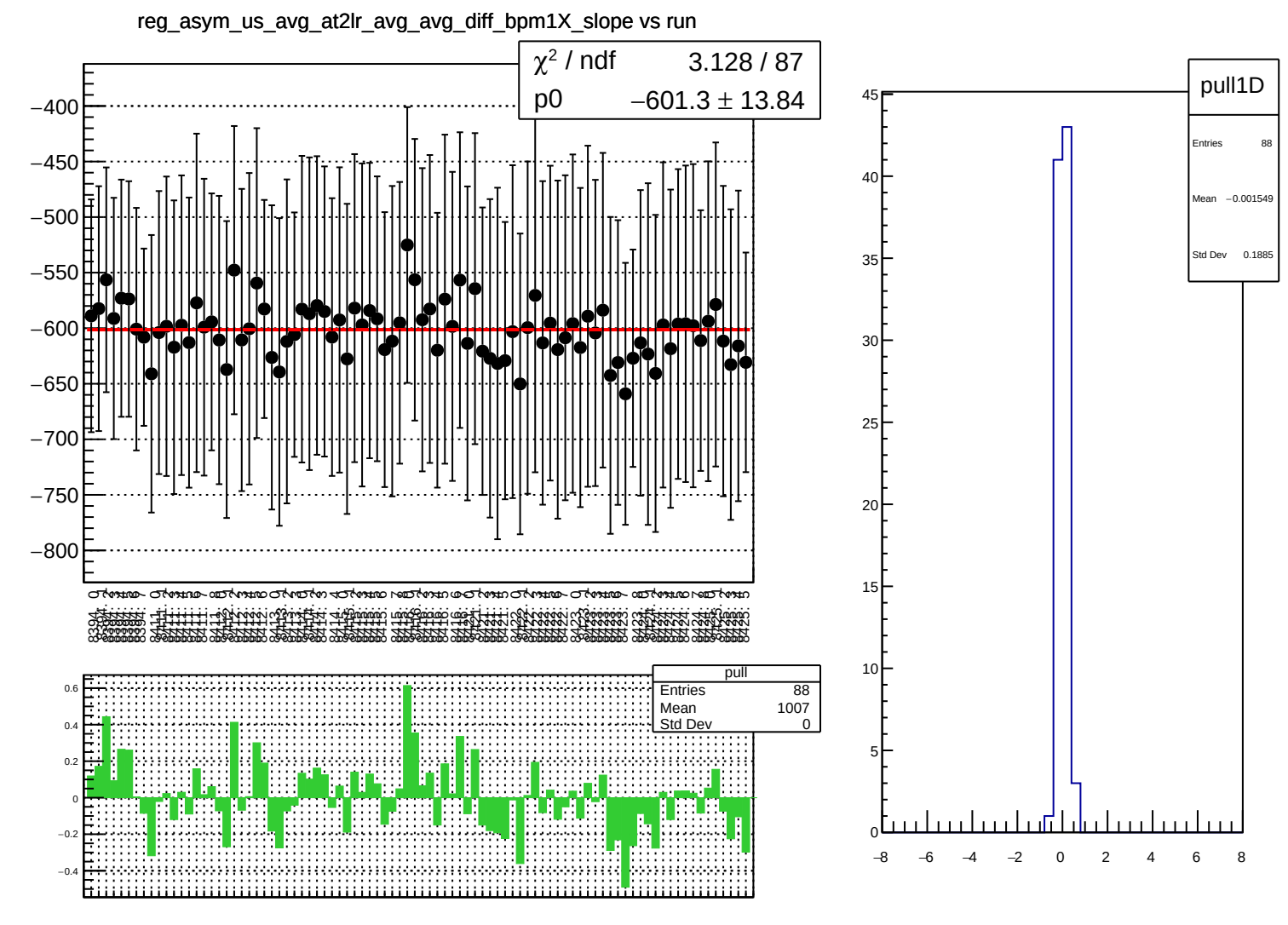

pull1D
Entries 88
Mean −0.005763
Std Dev 1.012

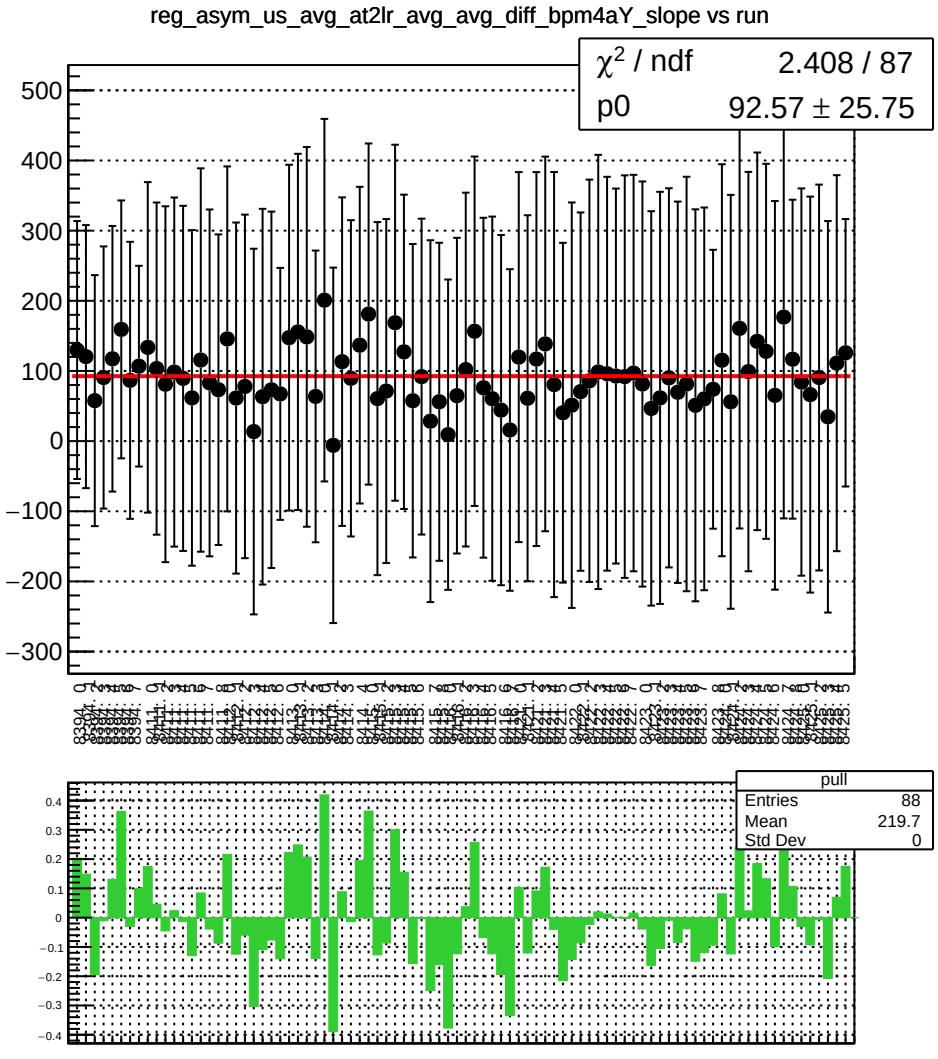

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 77.88 / 87
p0 4.796 ± 3.433
100
50
0
−50
−100
pull
Entries 88
Mean 2008
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

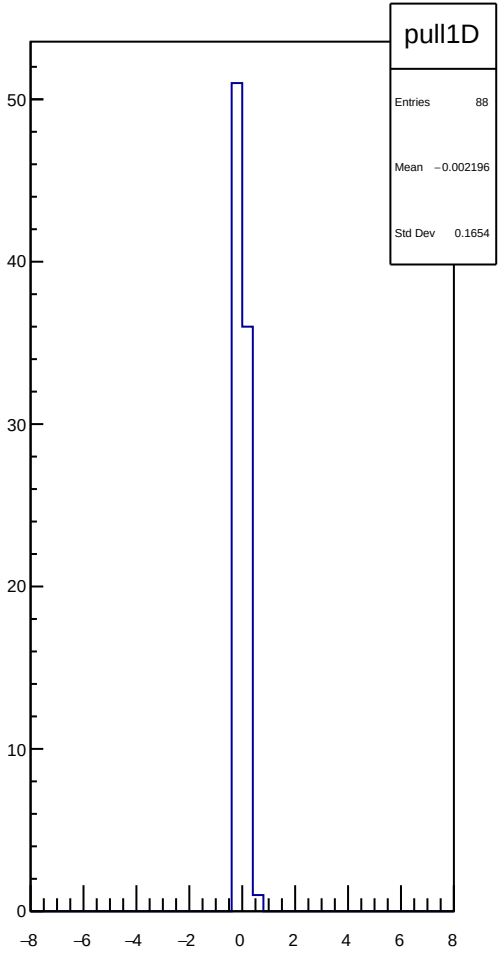

pull1D
Entries 88
Mean −0.001931
Std Dev 0.9407
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

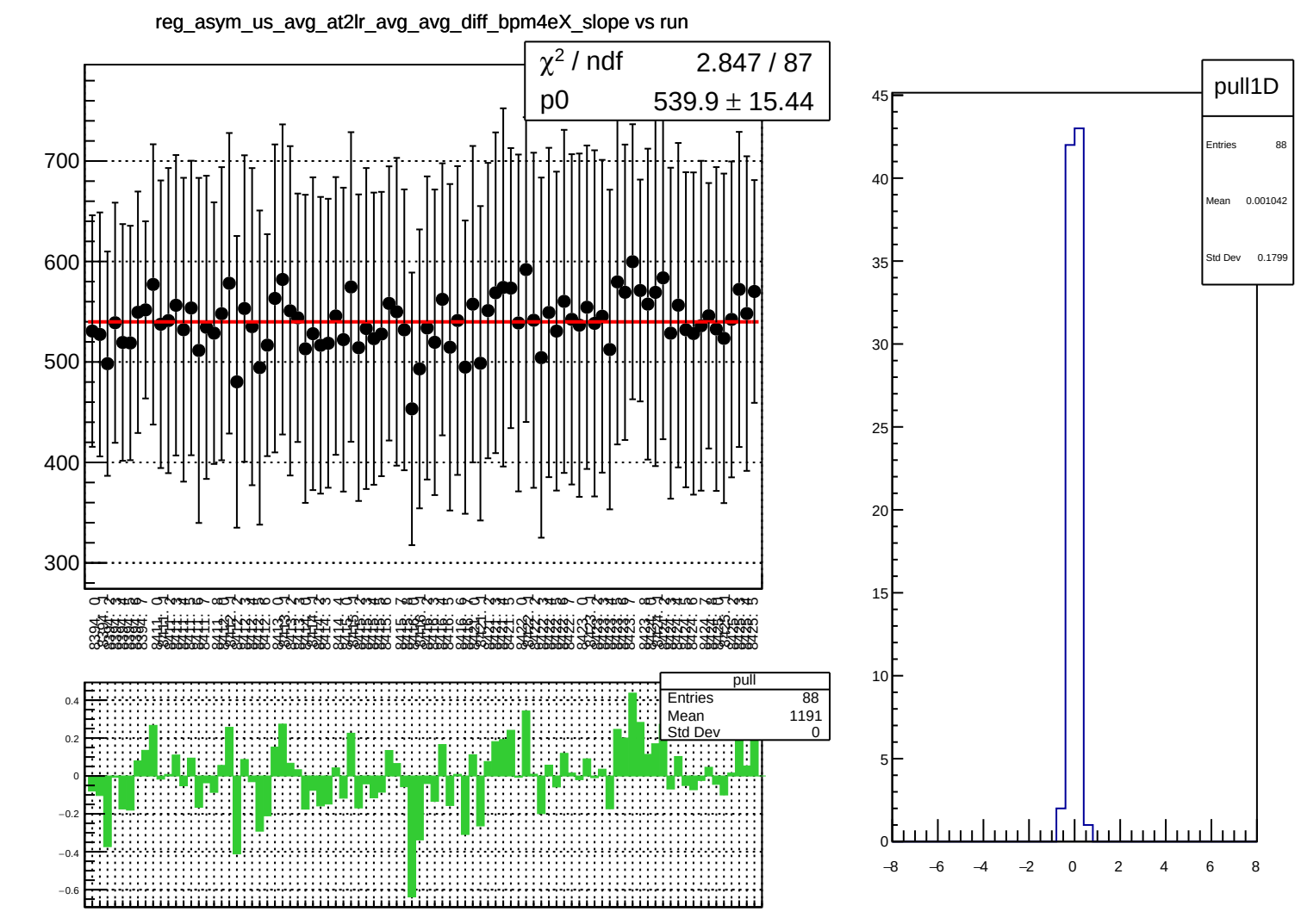

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 120.2 / 87
p0 −10.22 ± 0.2063
pull
Entries 88
Mean 451.3
Std Dev 0

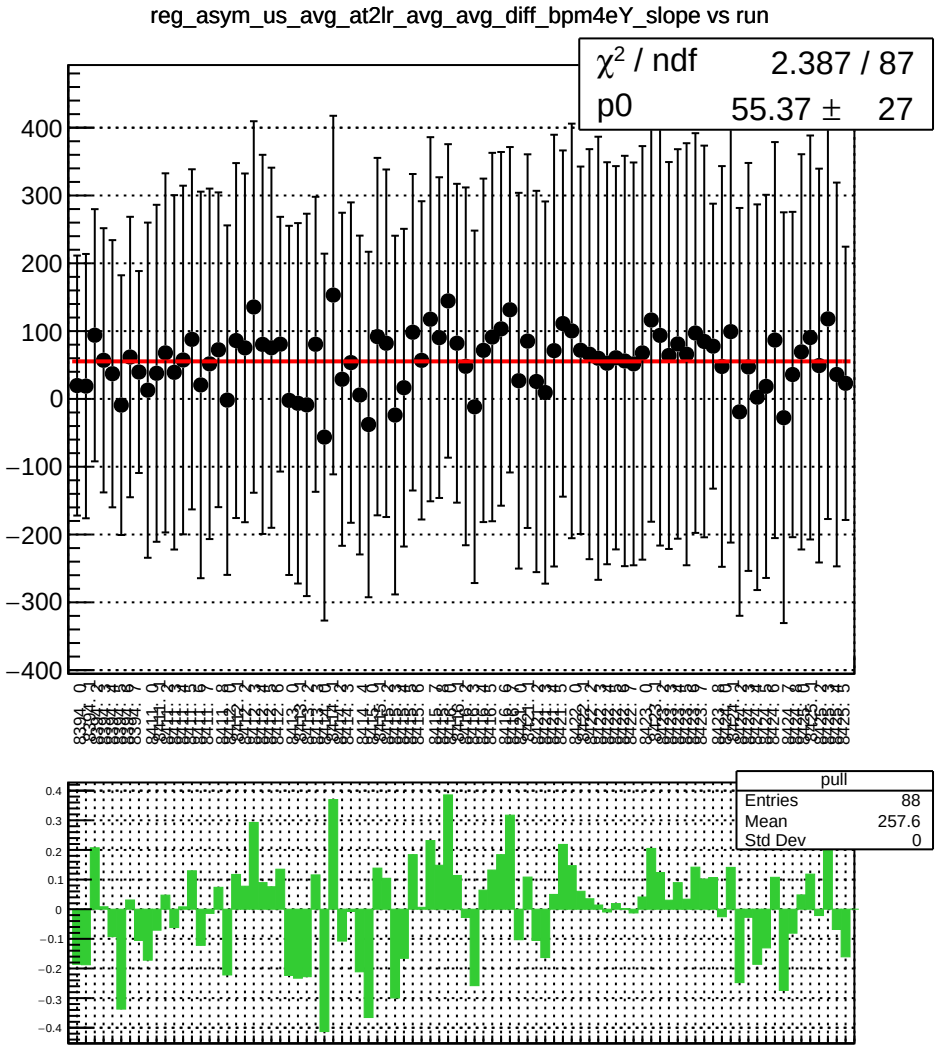

pull1D
Entries 88
Mean 0.01727
Std Dev 1.169

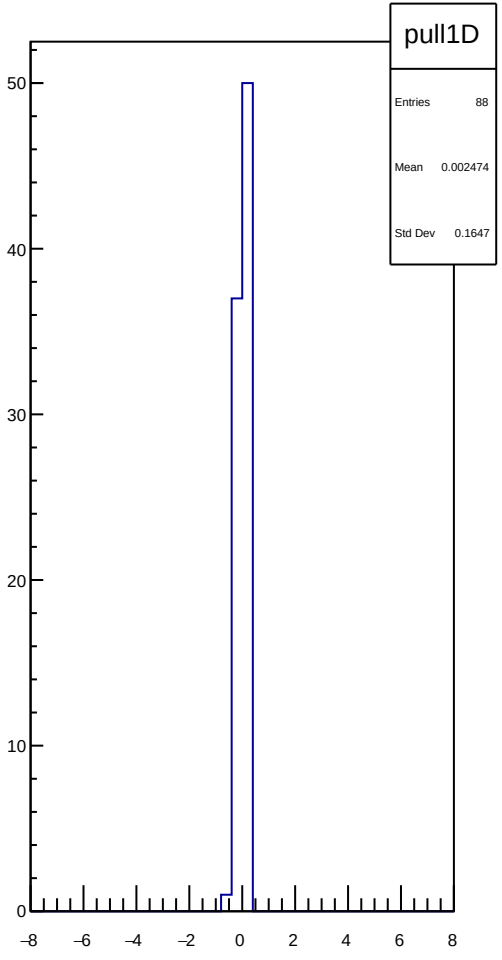

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 3.128 / 87
p0 −601.3 ± 13.84
pull
Entries 88
Mean 1007
Std Dev 0
pull1D
Entries 88
Mean −0.001549
Std Dev 0.1885

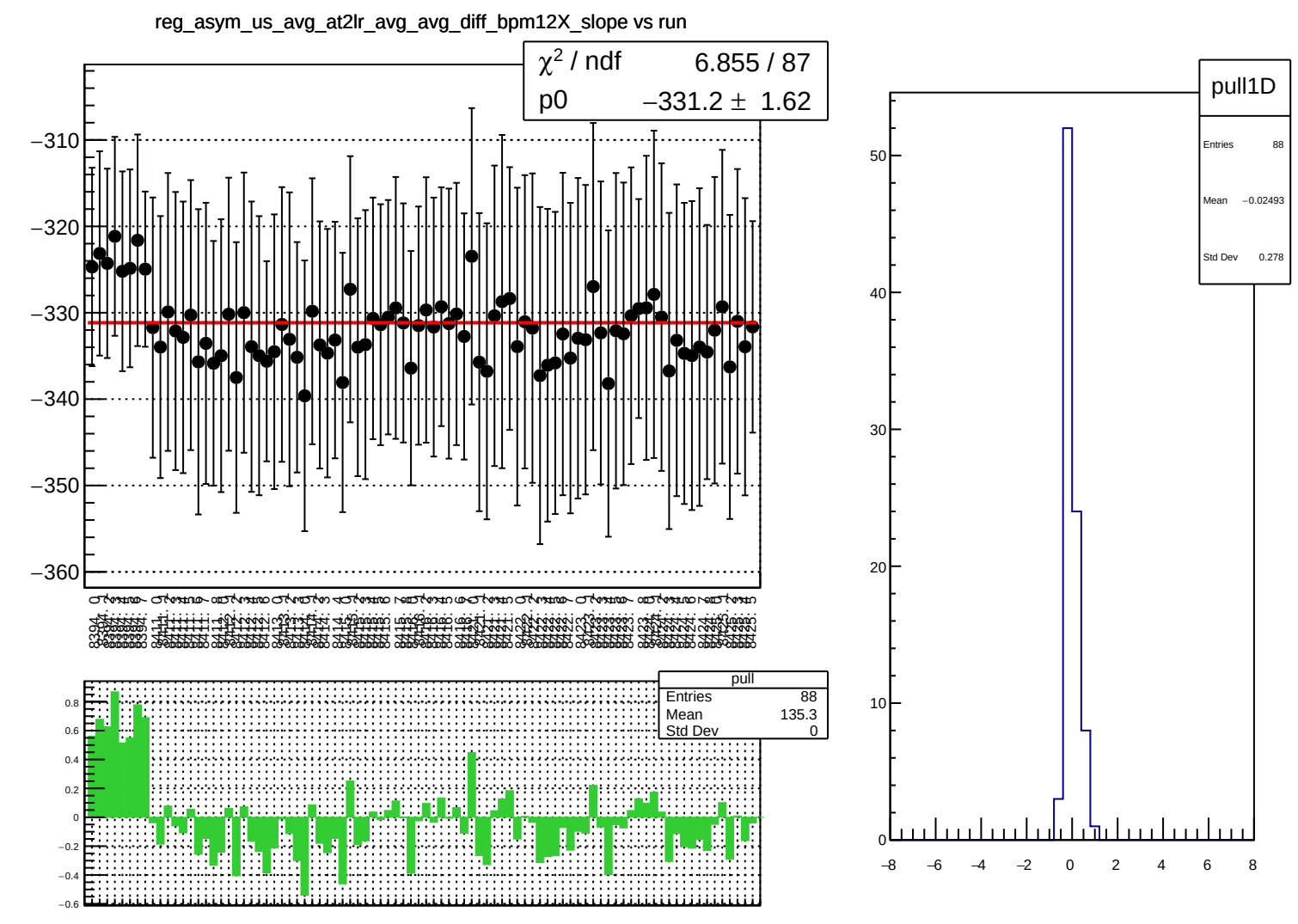

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.408 / 87
p0 92.57 ± 25.75
pull
Entries 88
Mean 219.7
Std Dev 0

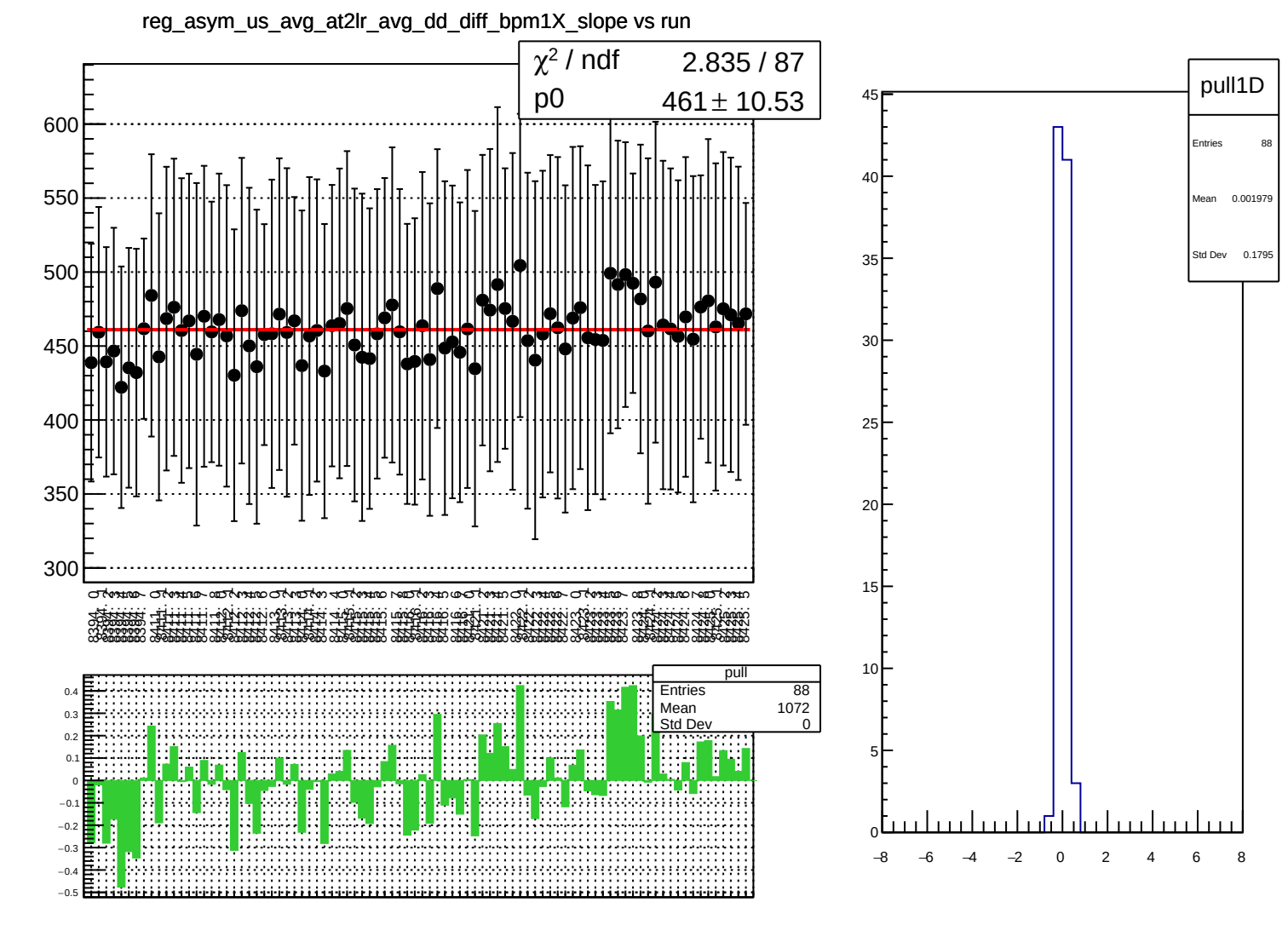

pull1D
Entries 88
Mean −0.002196
Std Dev 0.1654

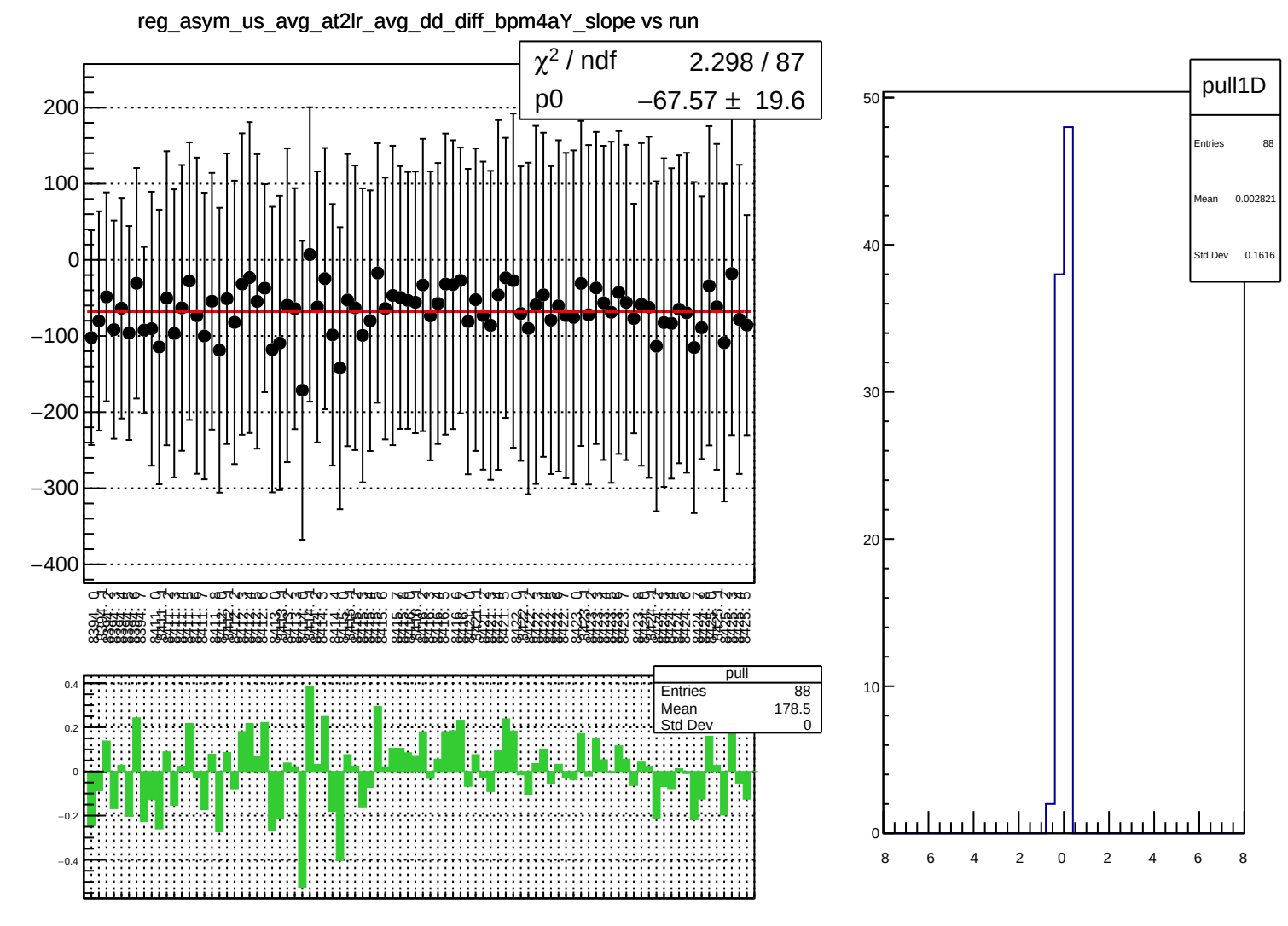

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.847 / 87
p0 539.9 ± 15.44
700
600
500
400
300
pull
Entries 88
Mean 1191
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean 0.001042
Std Dev 0.1799
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

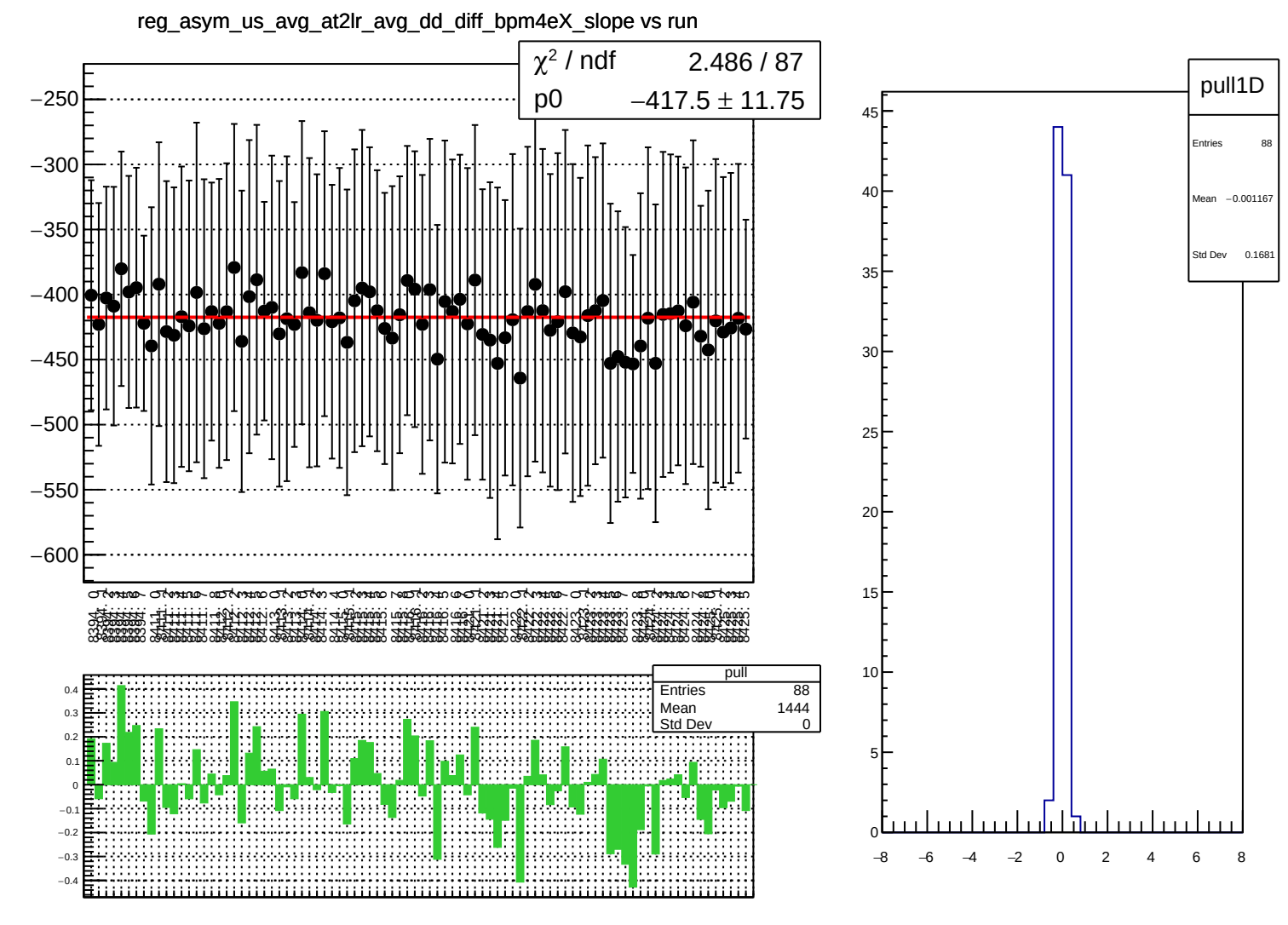

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.387 / 87
p0 55.37 ± 27
pull
Entries 88
Mean 257.6
Std Dev 0

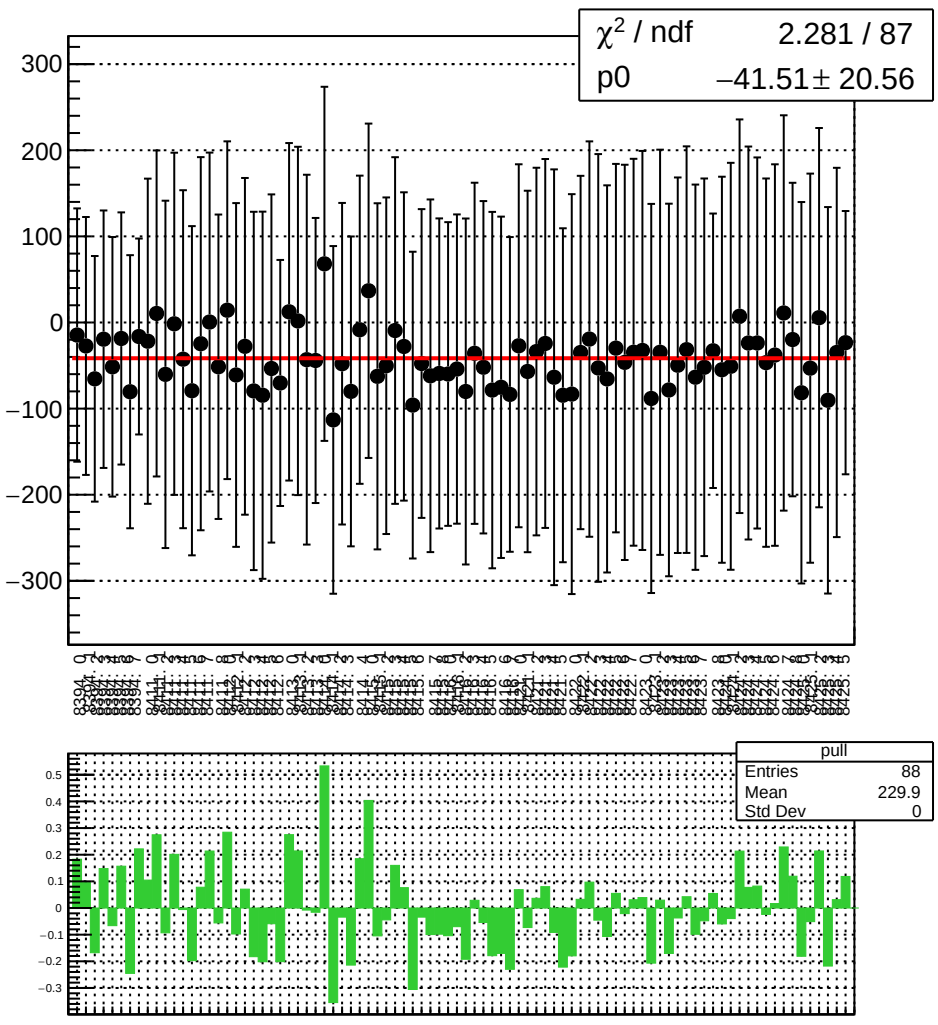

pull1D
Entries 88
Mean 0.002474
Std Dev 0.1647

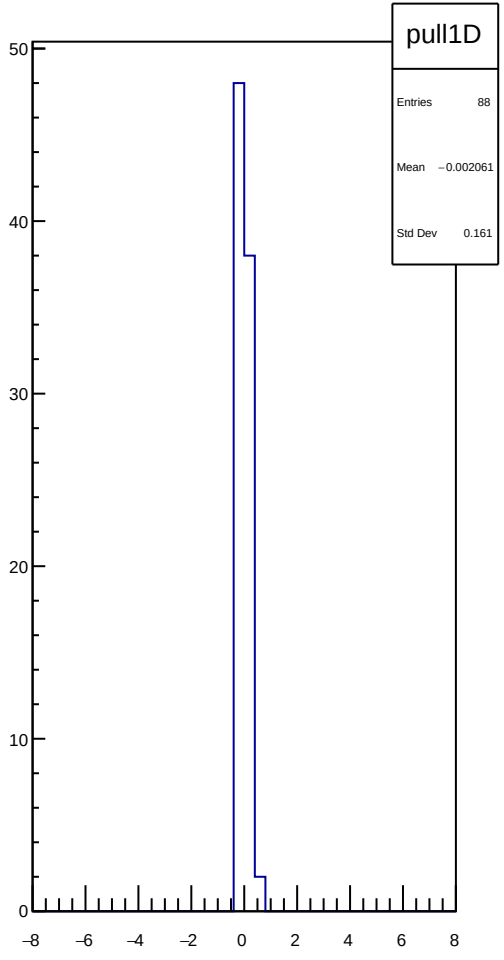

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 6.855 / 87
p0 −331.2 ± 1.62
−310
−320
−330
−340
−350
−360
pull
Entries 88
Mean 135.3
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean −0.02493
Std Dev 0.278
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

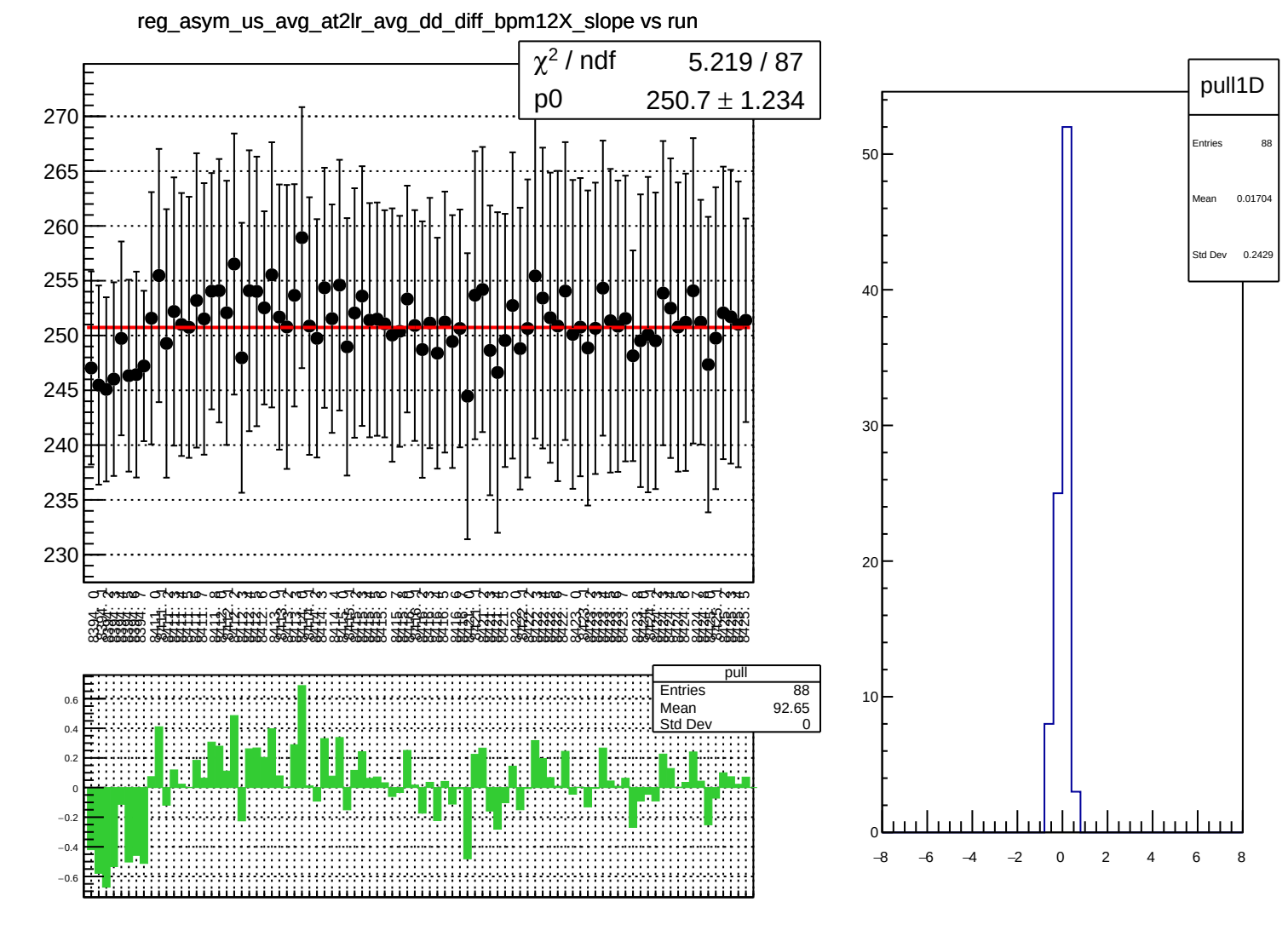

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 2.835 / 87
p0 461 ± 10.53
pull
Entries 88
Mean 1072
Std Dev 0
pull1D
Entries 88
Mean 0.001979
Std Dev 0.1795

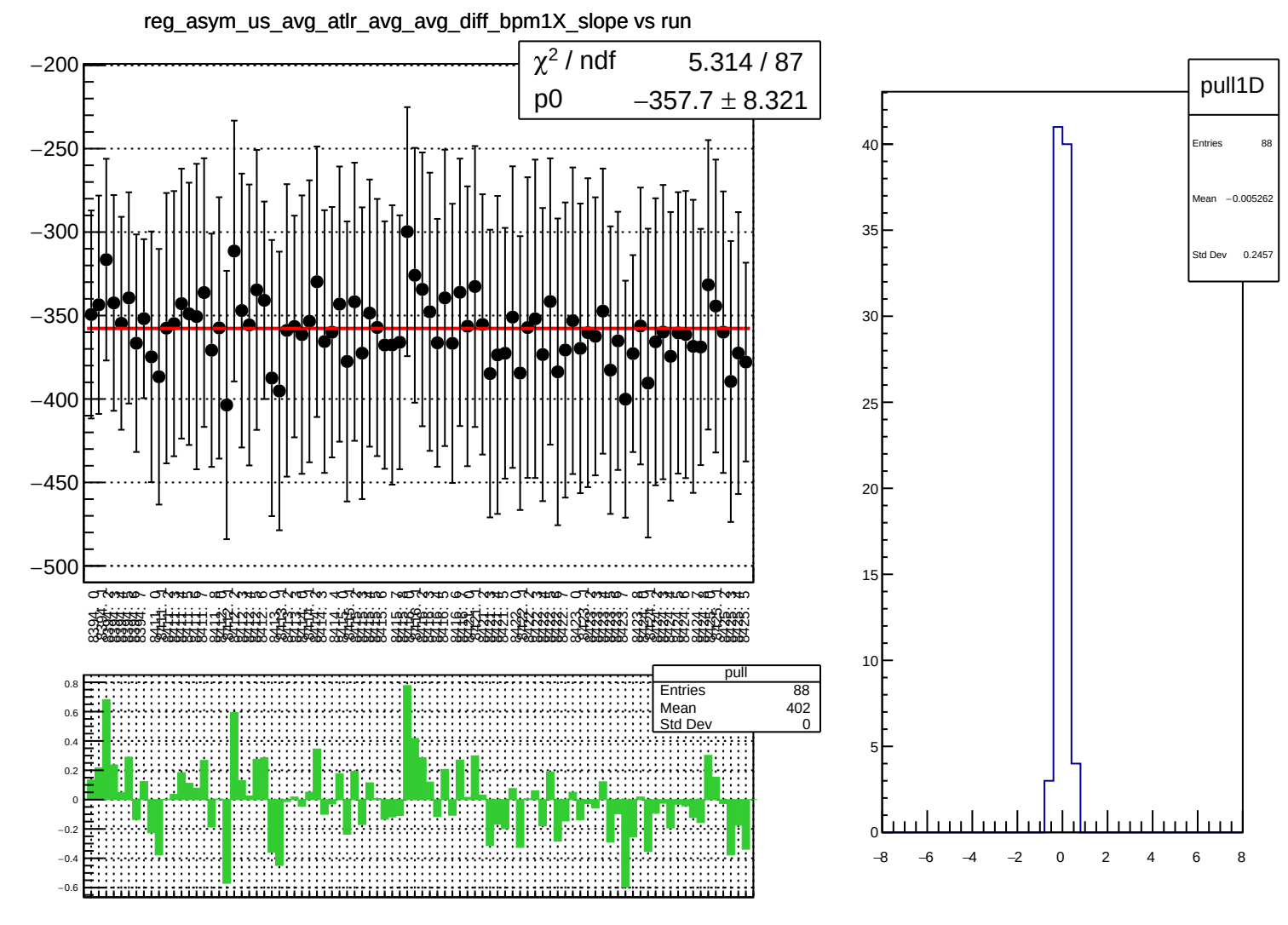

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.298 / 87
p0 −67.57 ± 19.6
200
100
0
−100
−200
−300
−400
pull
Entries 88
Mean 178.5
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 88
Mean 0.002821
Std Dev 0.1616
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

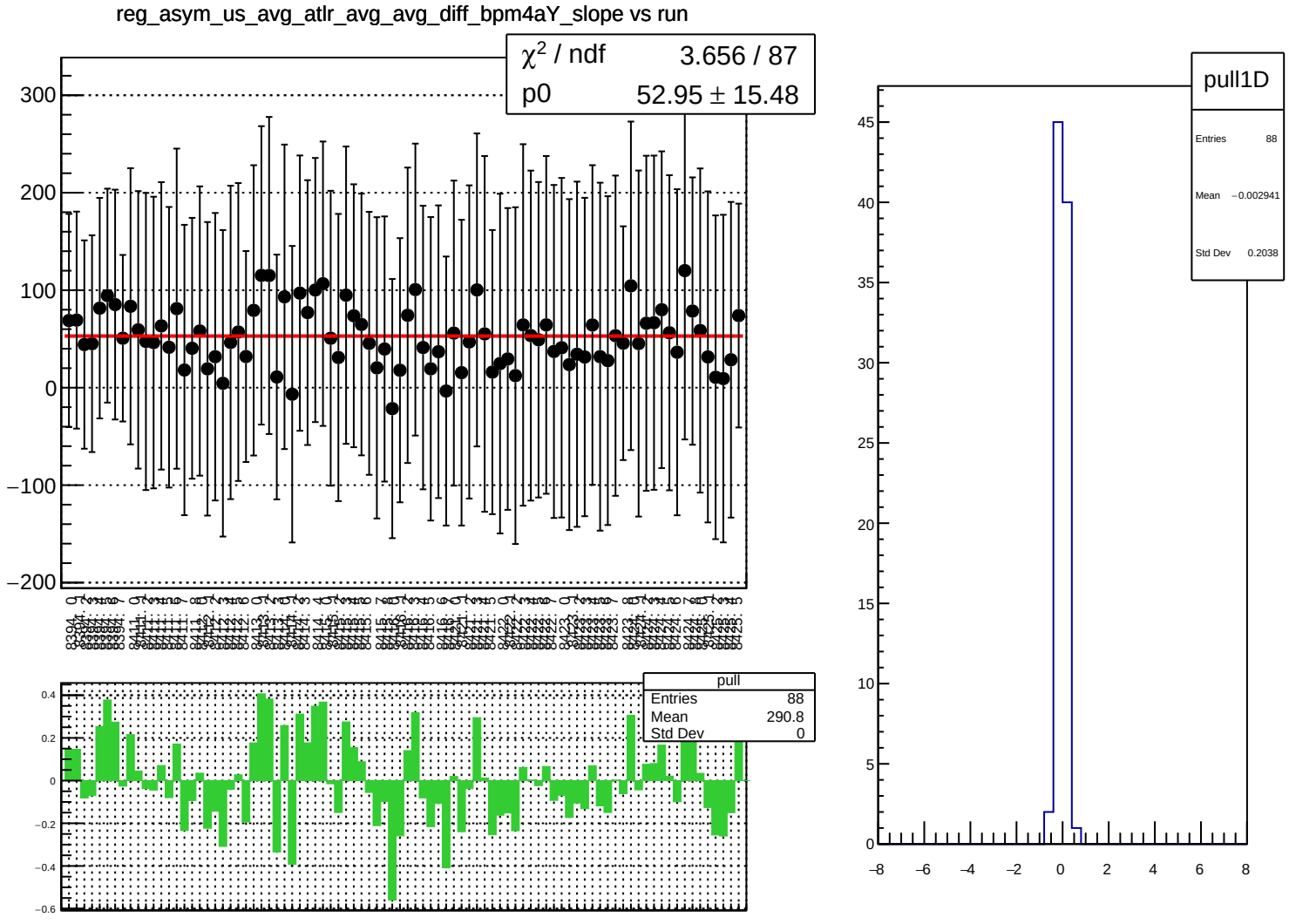

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.486 / 87
p0 −417.5 ± 11.75
−250
−300
−350
−400
−450
−500
−550
−600
pull
Entries 88
Mean 1444
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 88
Mean −0.001167
Std Dev 0.1681
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

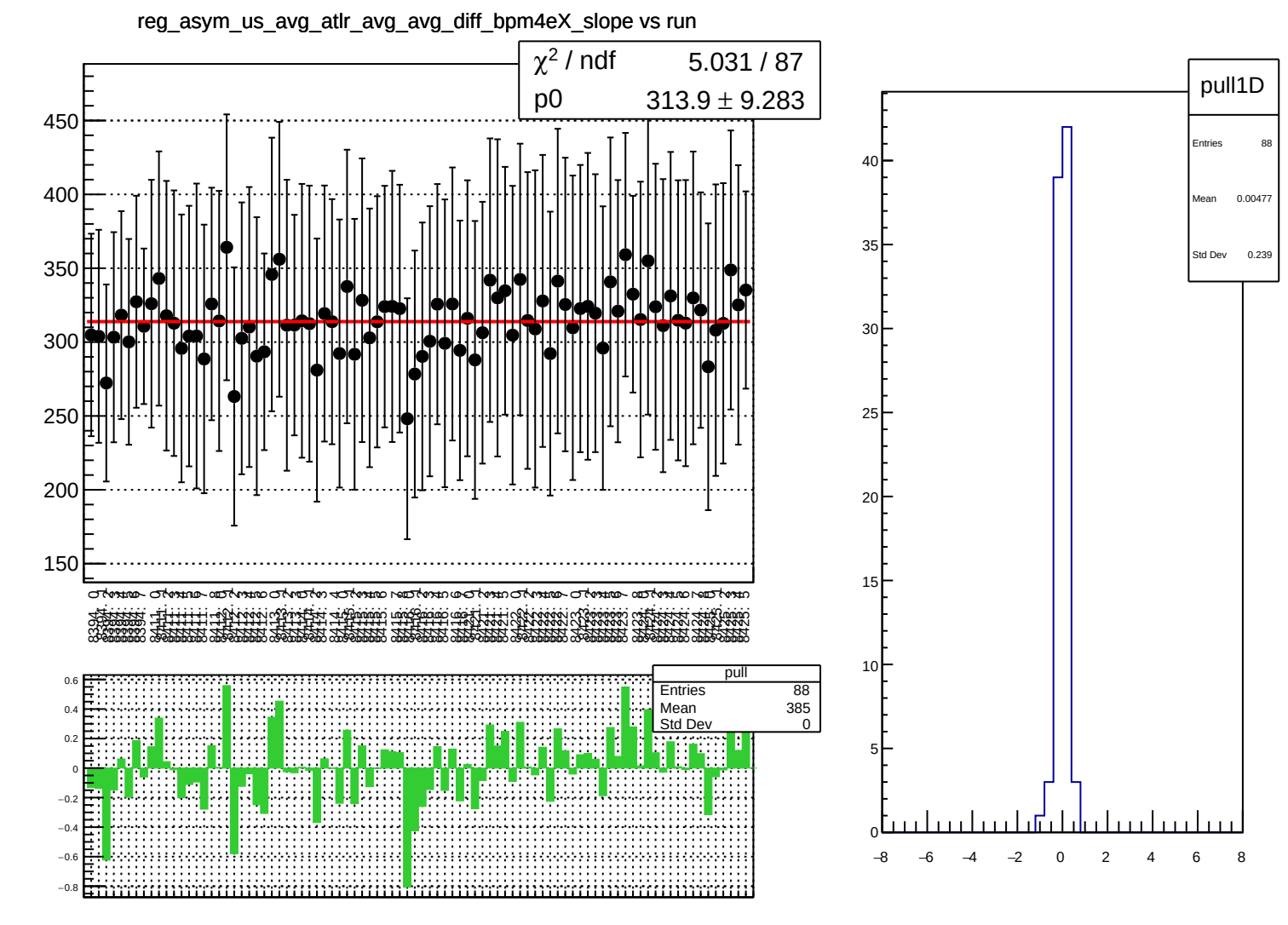

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.281 / 87
p0 −41.51 ± 20.56
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean 229.9
Std Dev 0
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

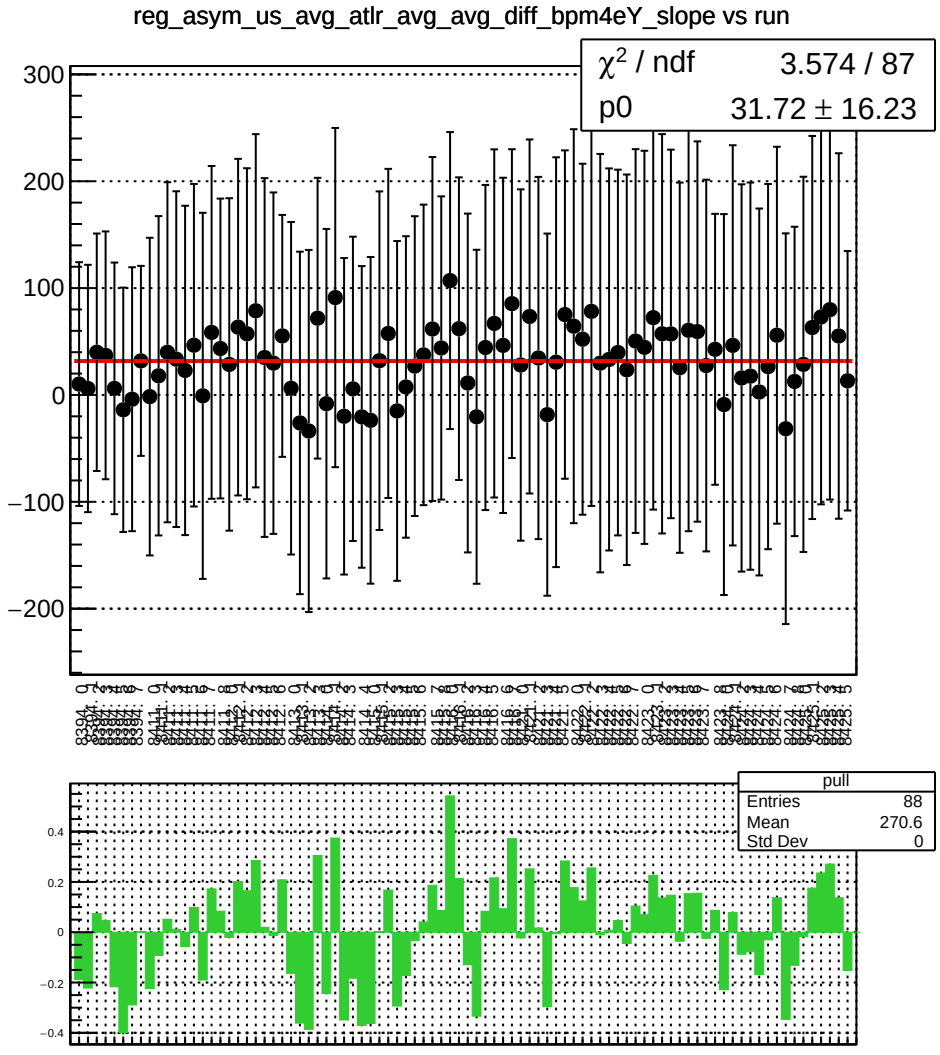

pull1D
Entries 88
Mean −0.002061
Std Dev 0.161
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

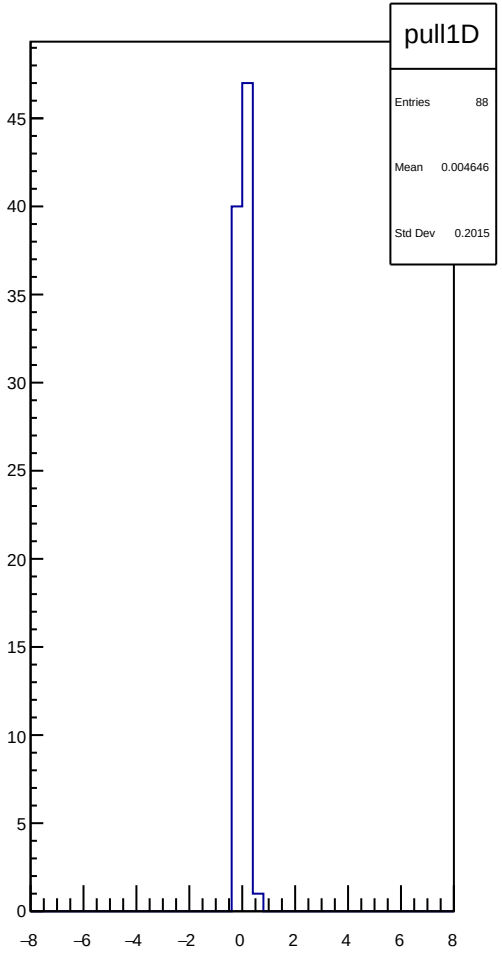

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 5.219 / 87
p0 250.7 ± 1.234
270
265
260
255
250
245
240
235
230
pull
Entries 88
Mean 92.65
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean 0.01704
Std Dev 0.2429
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

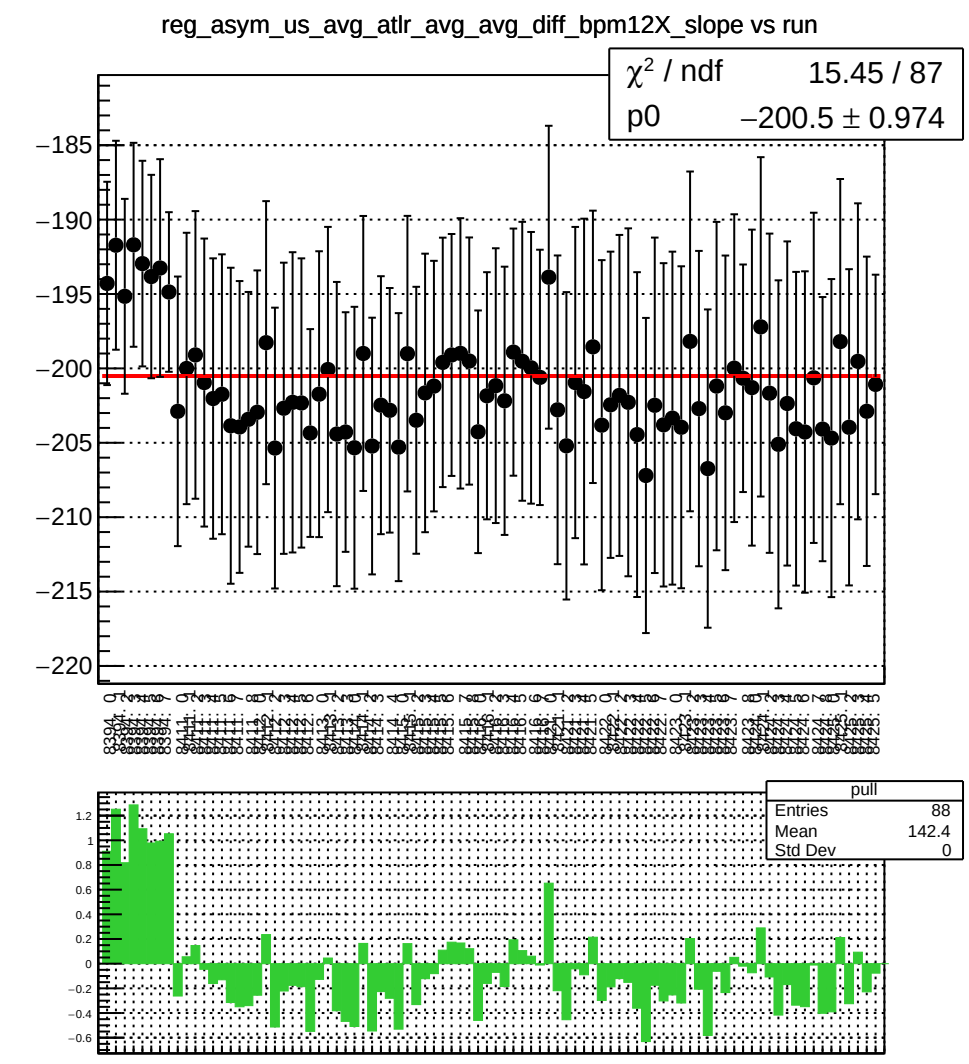

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 5.314 / 87
p0 −357.7 ± 8.321
pull
Entries 88
Mean 402
Std Dev 0
pull1D
Entries 88
Mean −0.005262
Std Dev 0.2457

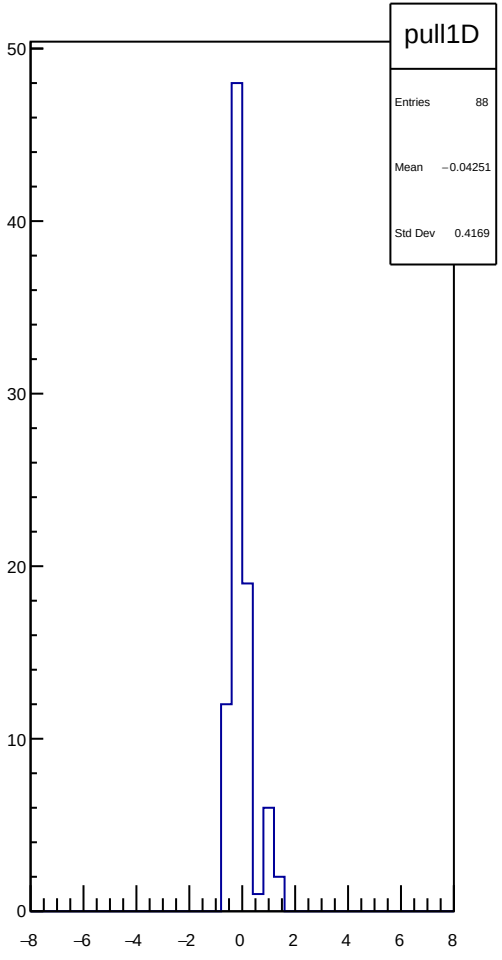

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.656 / 87
p0 52.95 ± 15.48
300
200
100
0
−100
−200
pull
Entries 88
Mean 290.8
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean −0.002941
Std Dev 0.2038
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

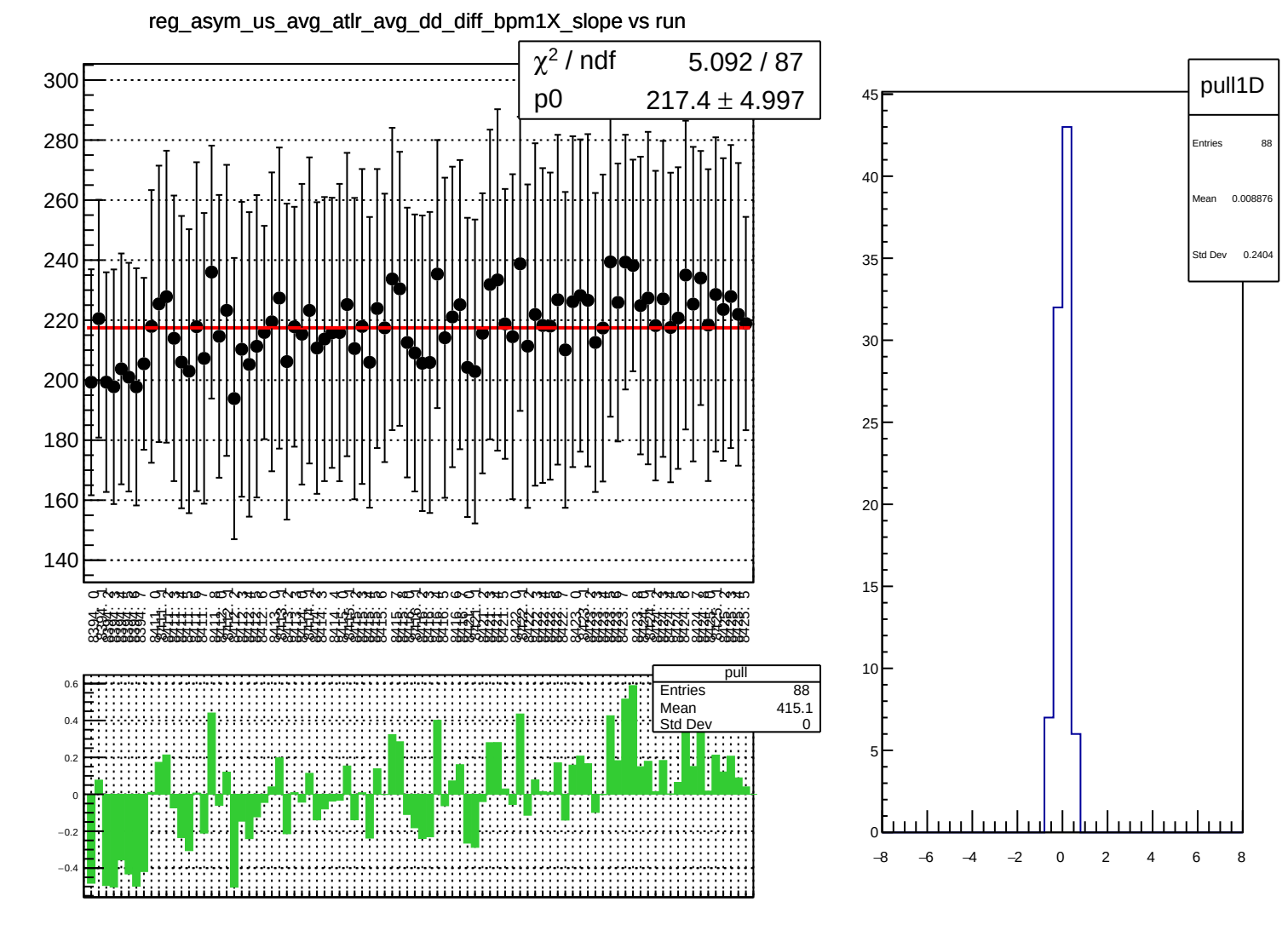

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.031 / 87
p0 313.9 ± 9.283
pull
Entries 88
Mean 385
Std Dev 0
pull1D
Entries 88
Mean 0.00477
Std Dev 0.239

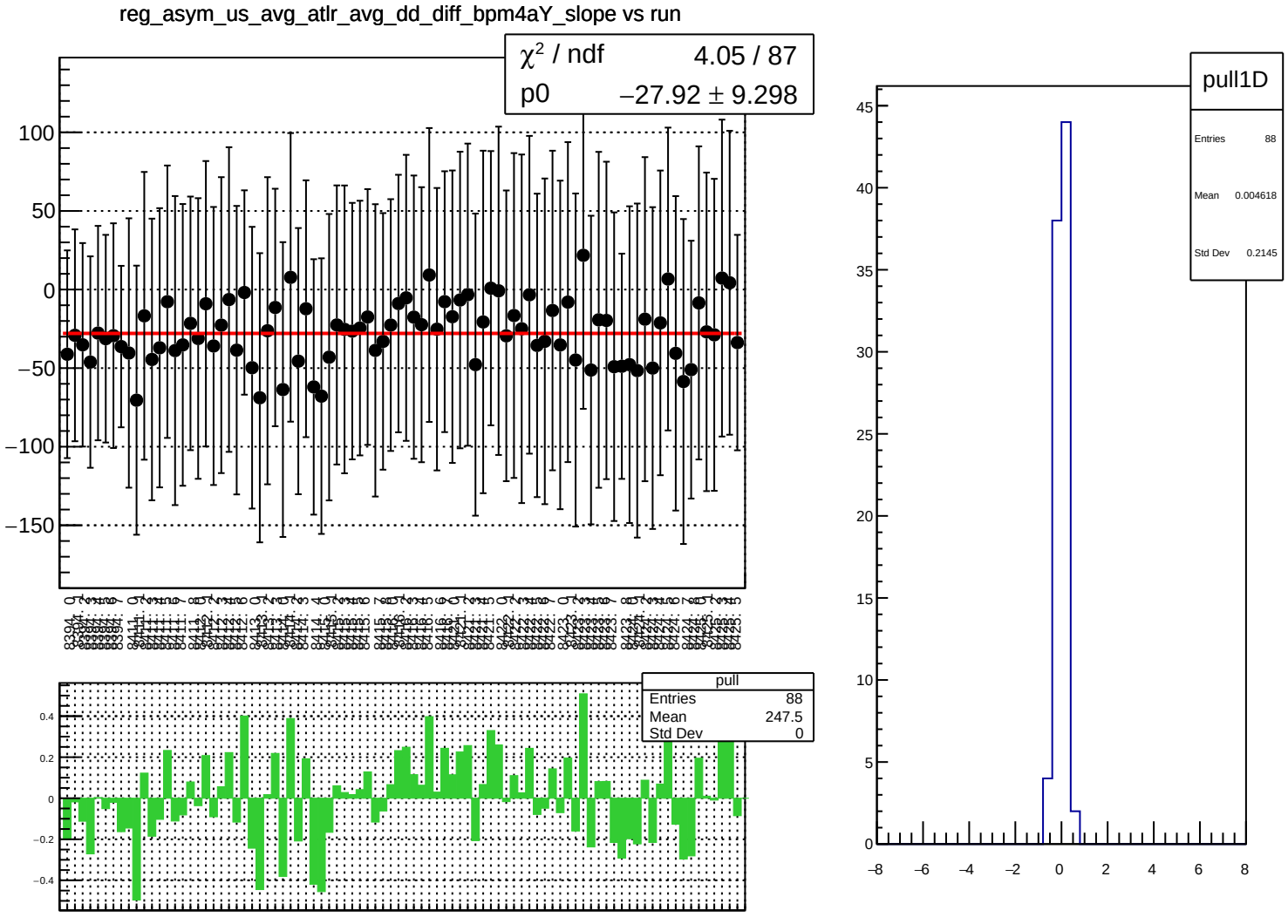

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.574 / 87
p0 31.72 ± 16.23
pull
Entries 88
Mean 270.6
Std Dev 0

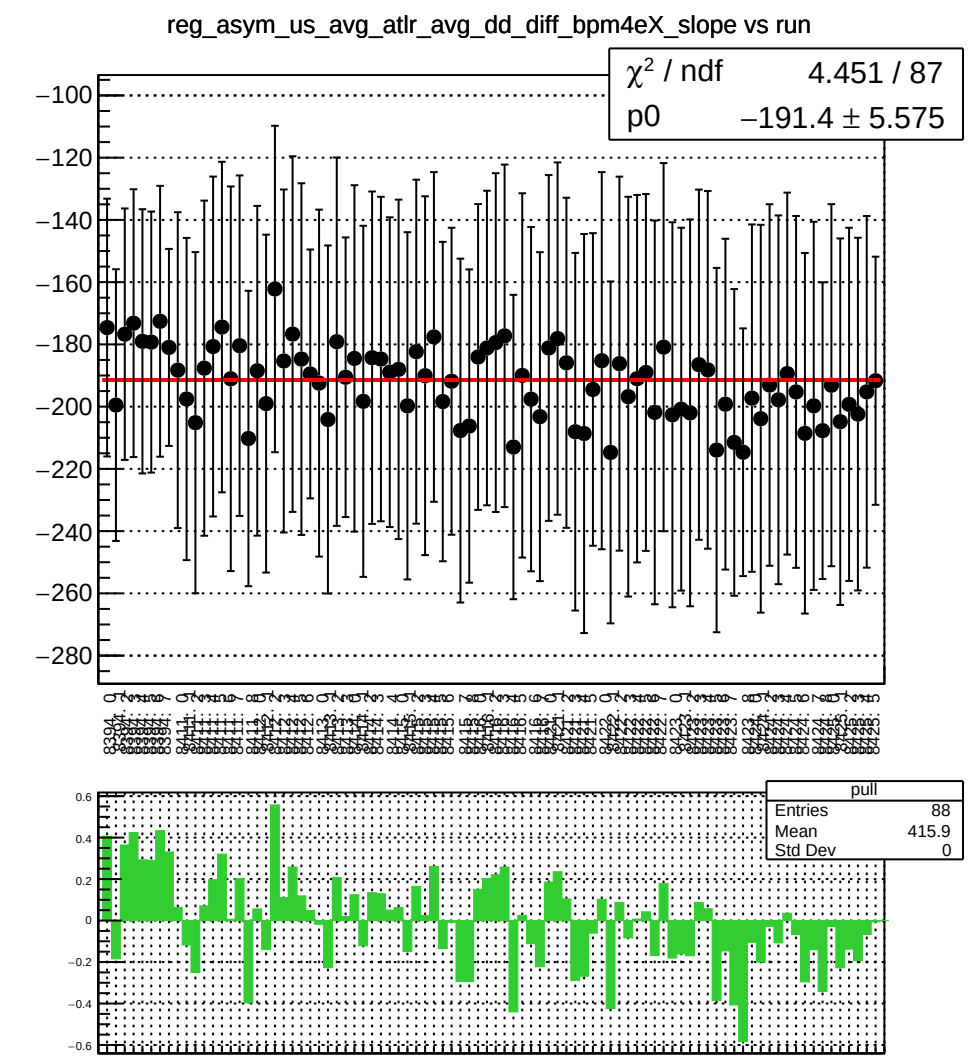

pull1D
Entries 88
Mean 0.004646
Std Dev 0.2015

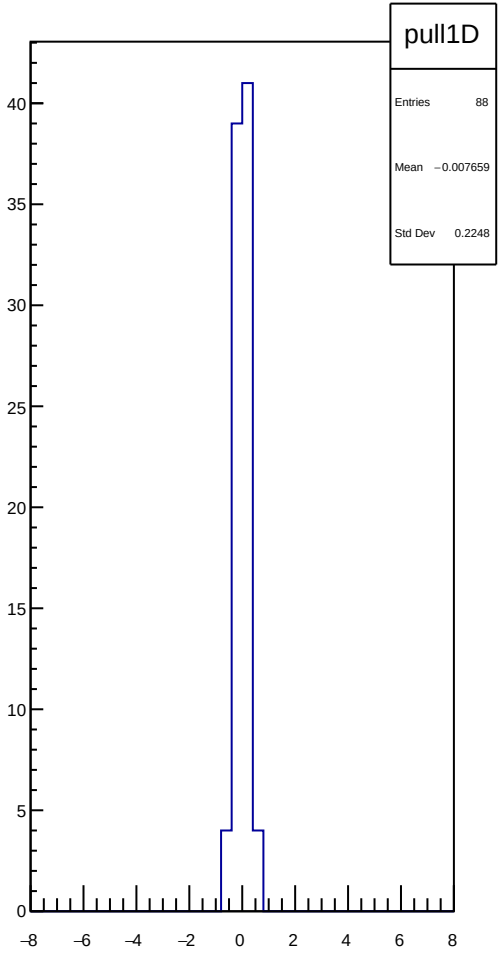

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 15.45 / 87
p0 −200.5 ± 0.974
pull
Entries 88
Mean 142.4
Std Dev 0

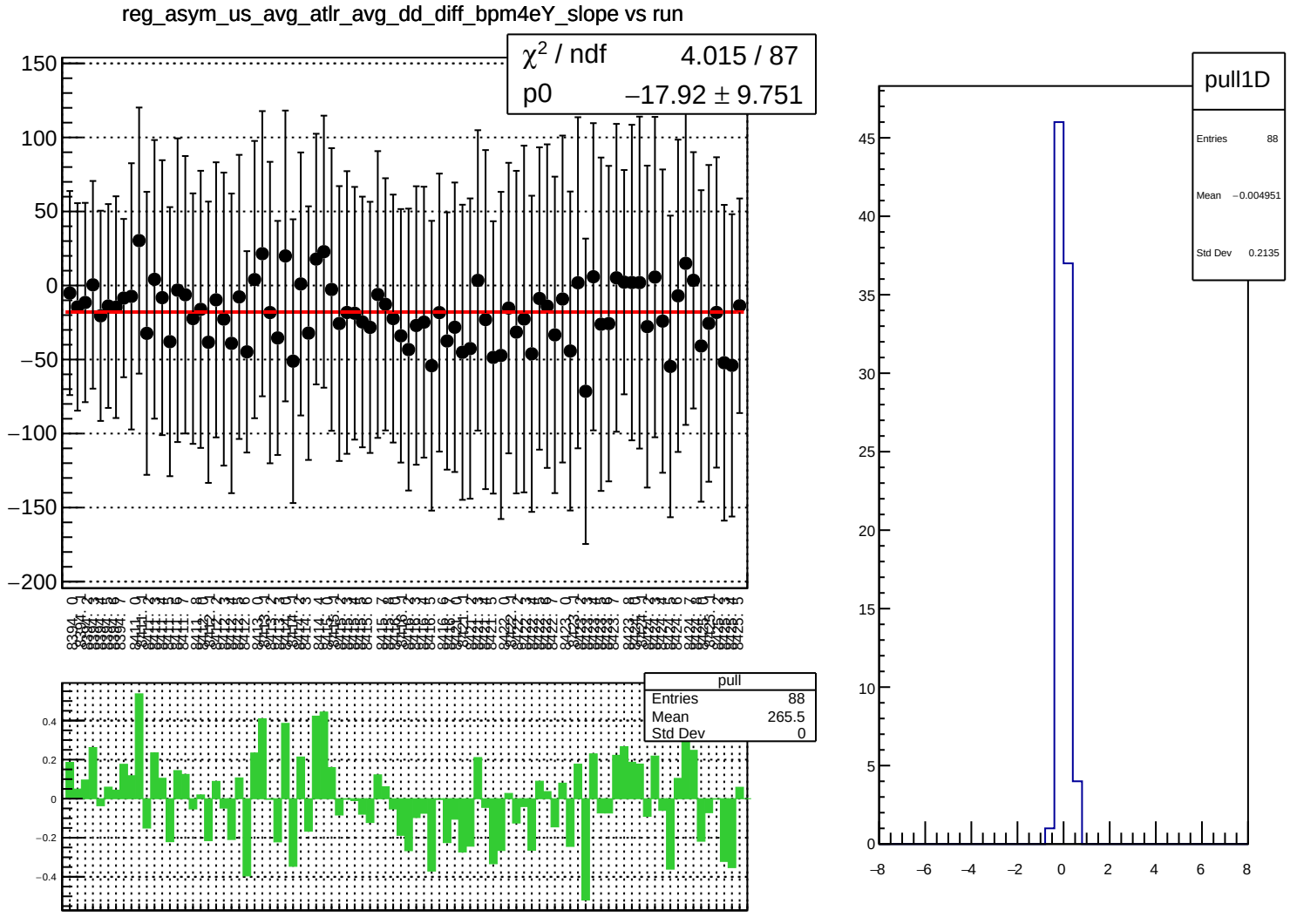

pull1D
Entries 88
Mean −0.04251
Std Dev 0.4169

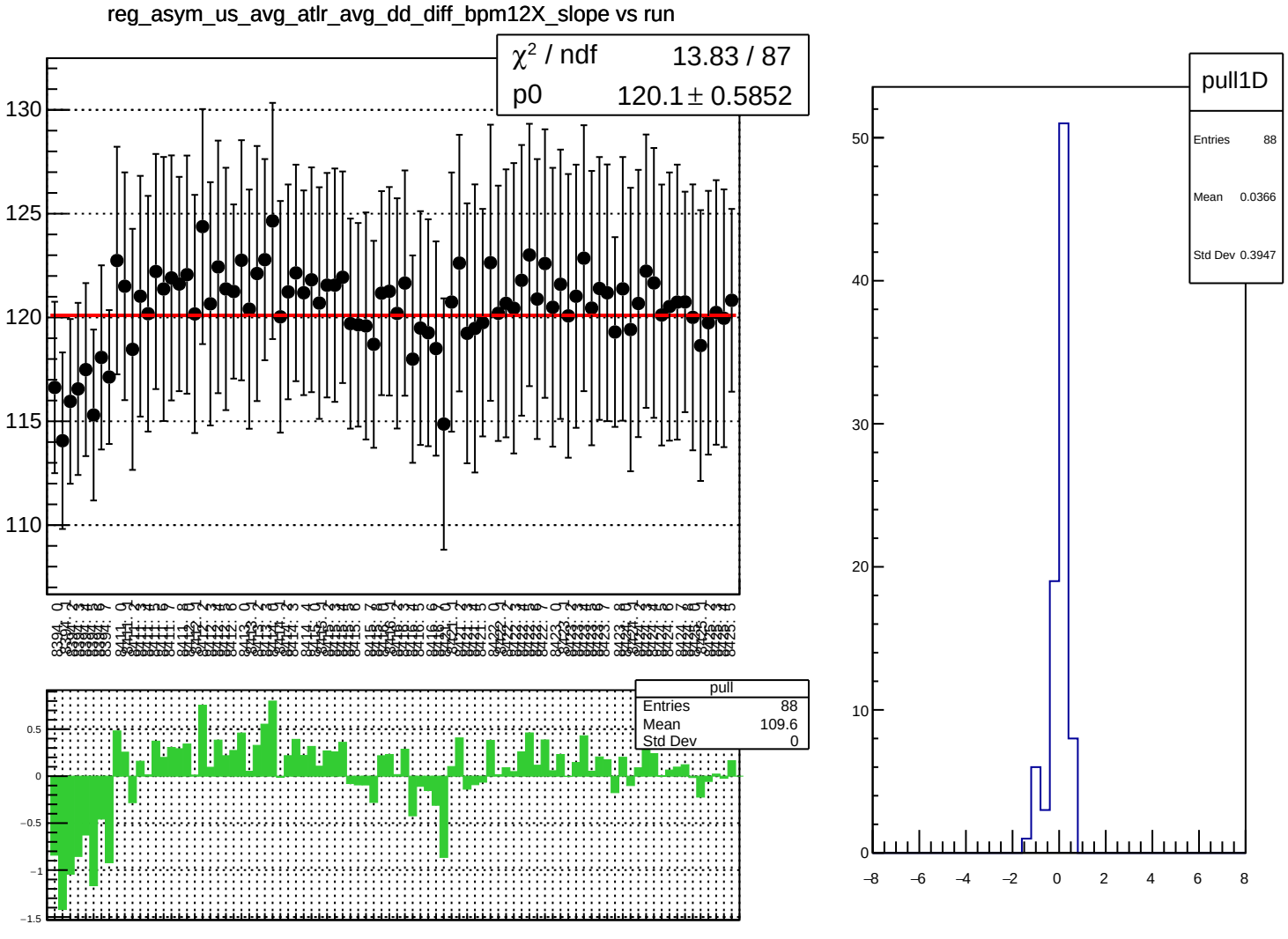

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 5.092 / 87
p0 217.4 ± 4.997
pull
Entries 88
Mean 415.1
Std Dev 0
pull1D
Entries 88
Mean 0.008876
Std Dev 0.2404

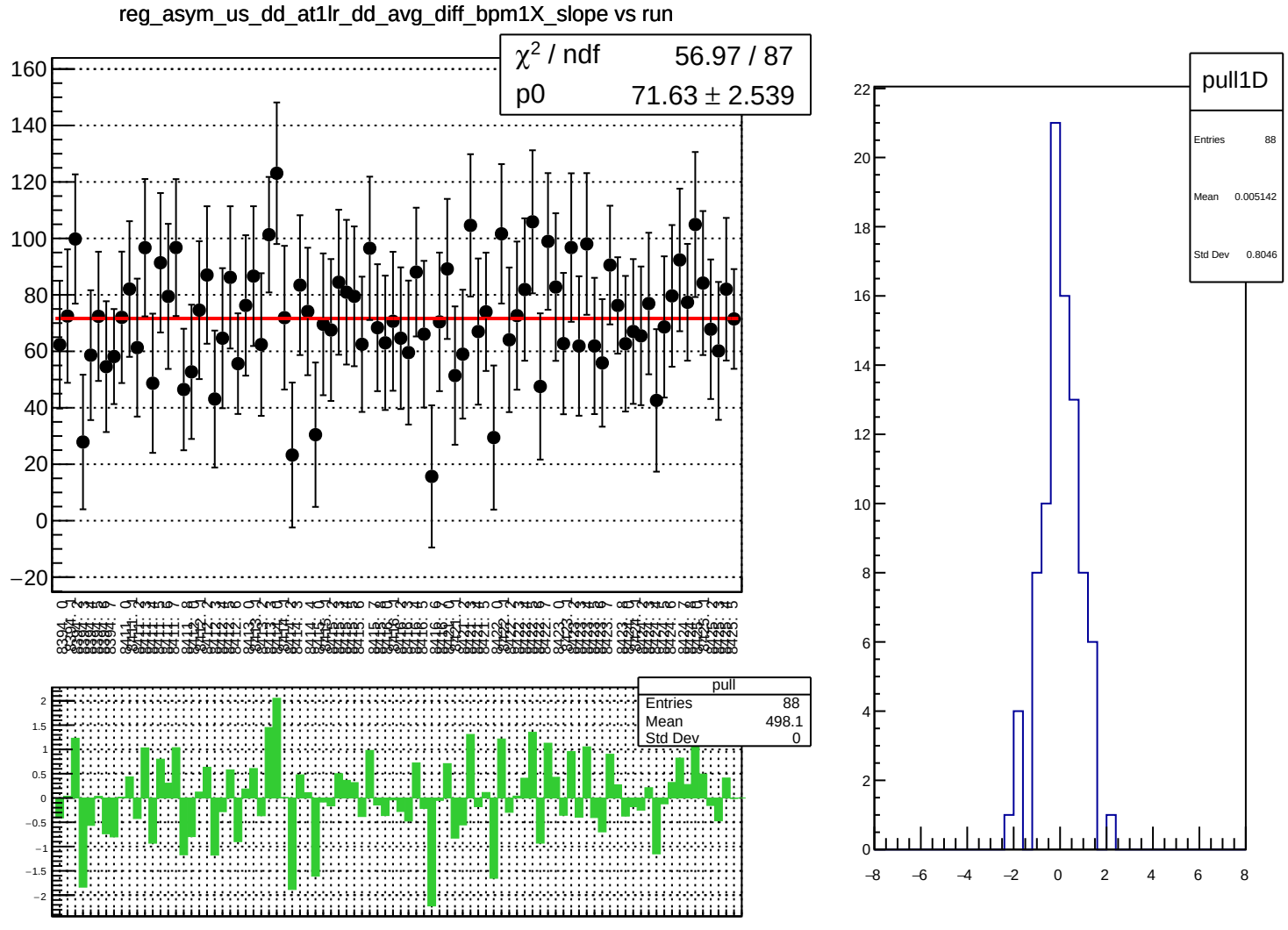

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.05 / 87
p0 −27.92 ± 9.298
100
50
0
−50
−100
−150
pull
Entries 88
Mean 247.5
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 88
Mean 0.004618
Std Dev 0.2145
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

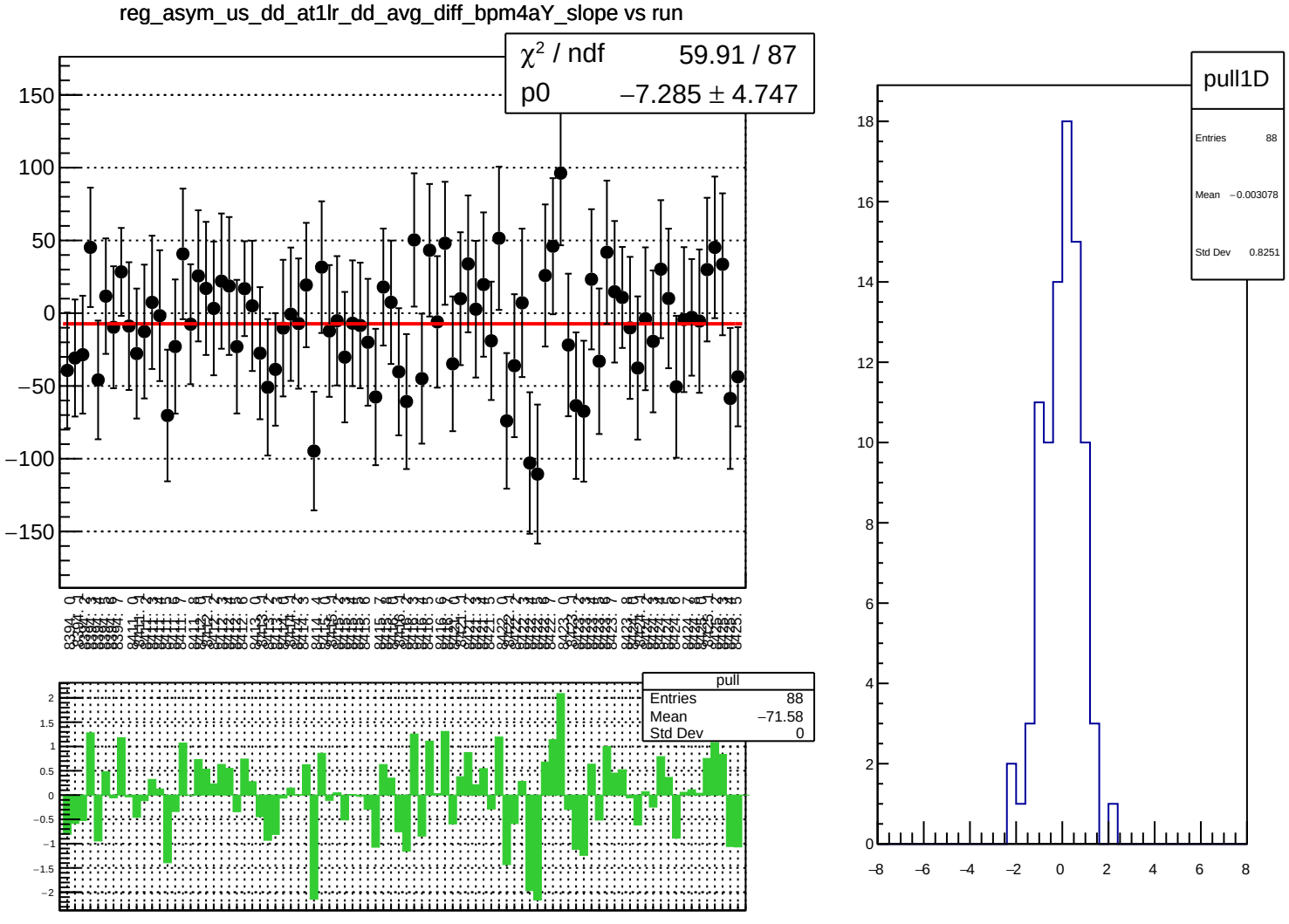

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.451 / 87
p0 −191.4 ± 5.575
pull
Entries 88
Mean 415.9
Std Dev 0

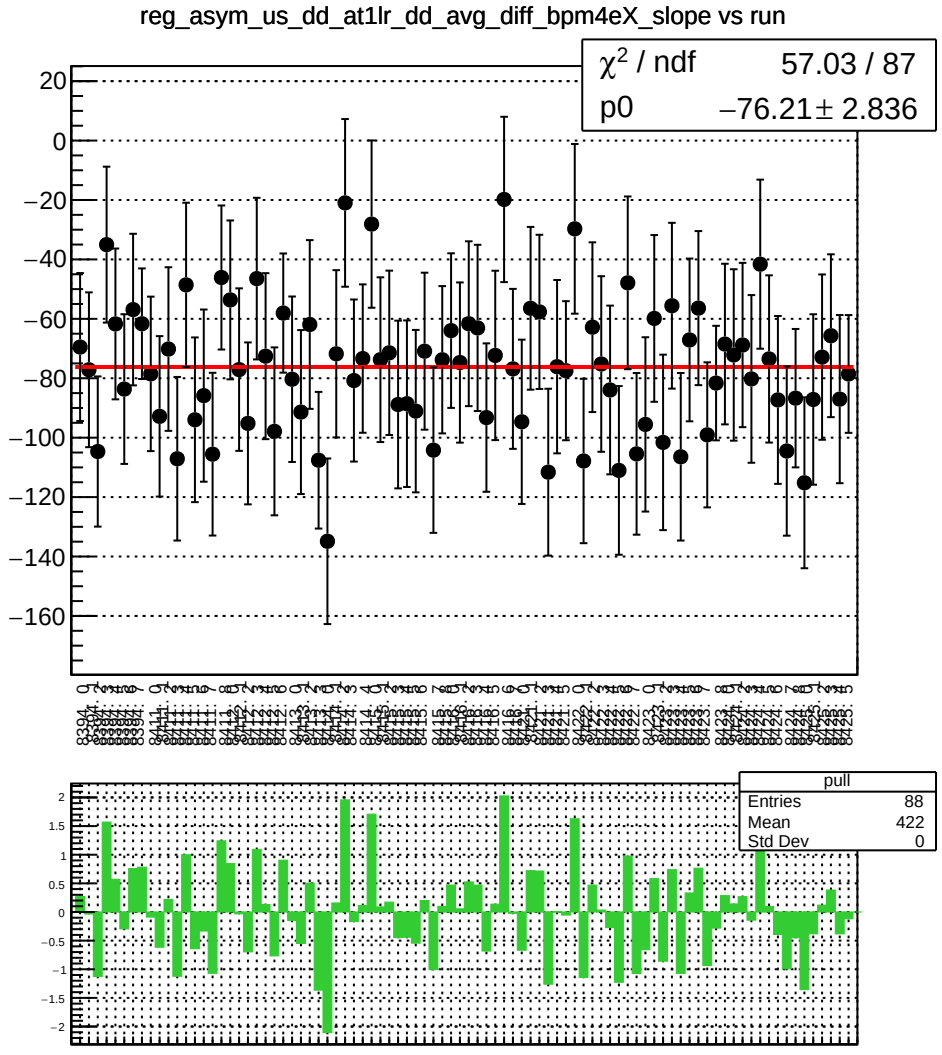

pull1D
Entries 88
Mean −0.007659
Std Dev 0.2248

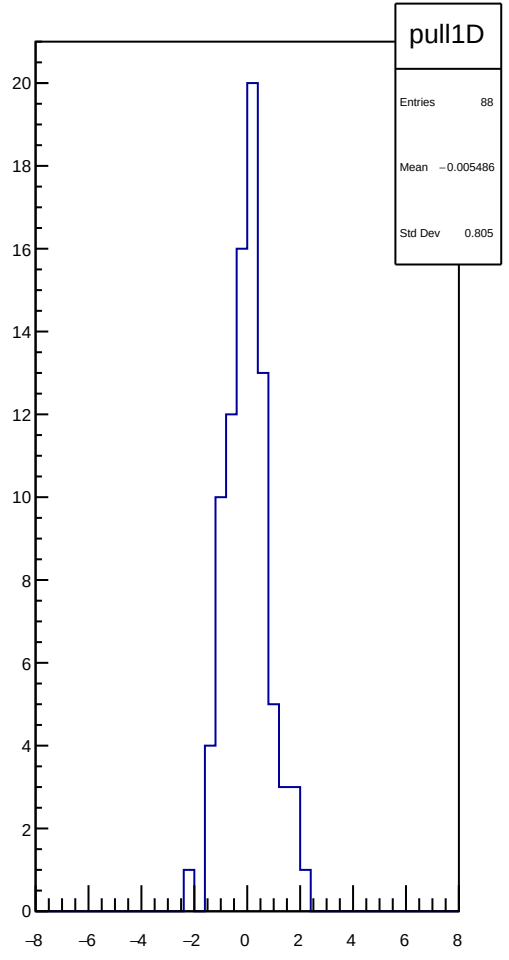

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.015 / 87
p0 −17.92 ± 9.751
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 265.5
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 88
Mean −0.004951
Std Dev 0.2135
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

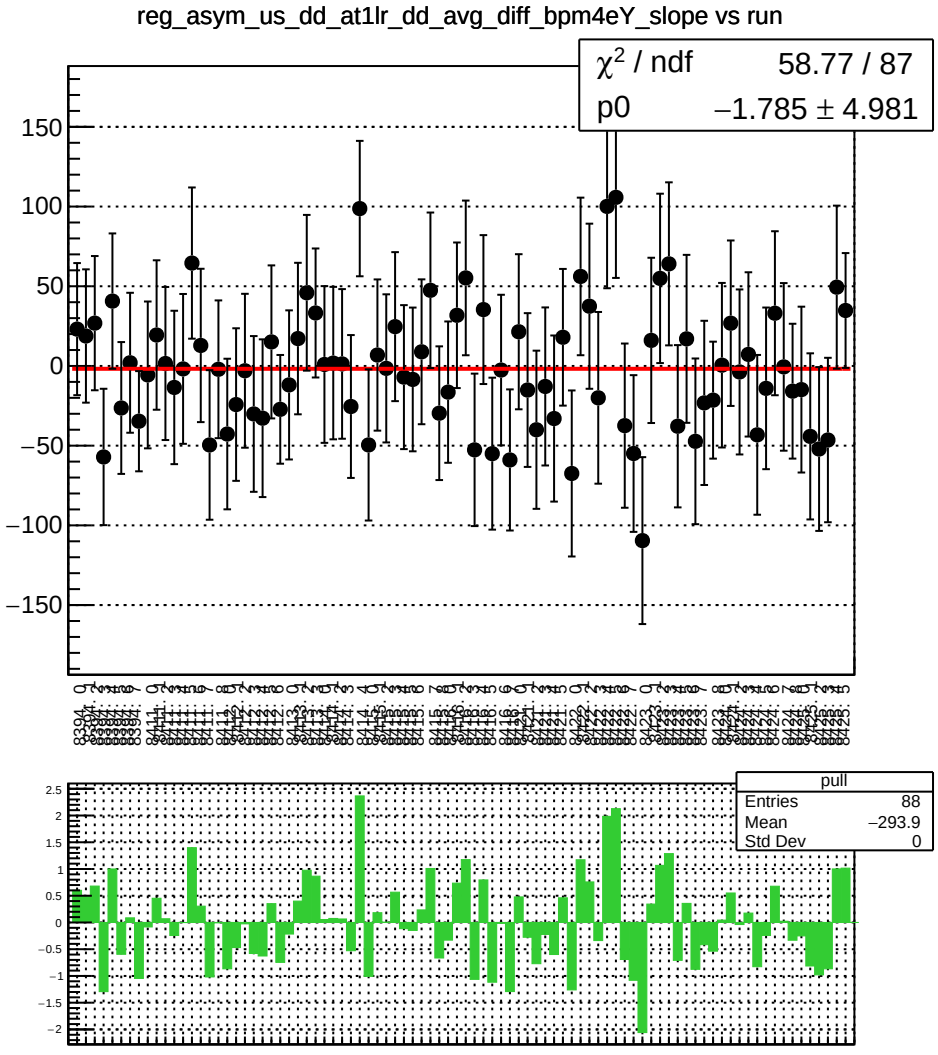

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 13.83 / 87
p0 120.1 ± 0.5852
130
125
120
115
110
pull
Entries 88
Mean 109.6
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 88
Mean 0.0366
Std Dev 0.3947
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

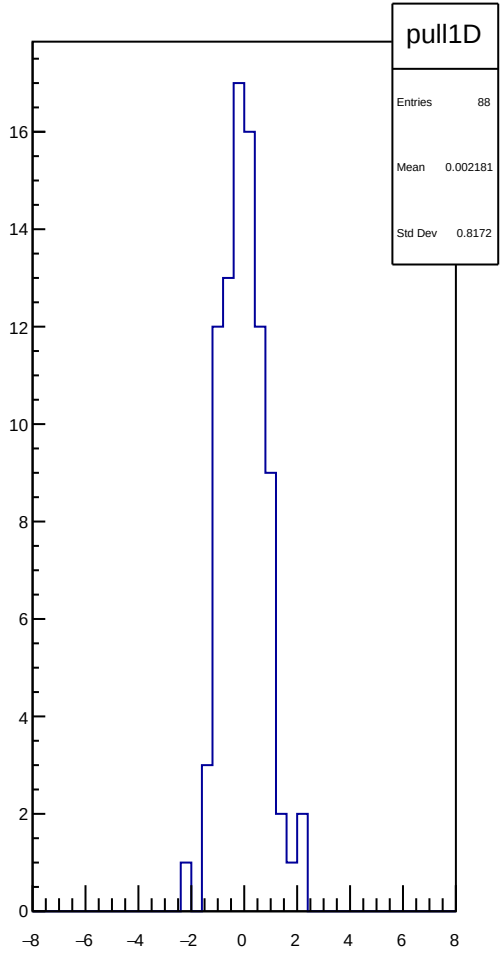

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 56.97 / 87
p0 71.63 ± 2.539
pull
Entries 88
Mean 498.1
Std Dev 0
pull1D
Entries 88
Mean 0.005142
Std Dev 0.8046

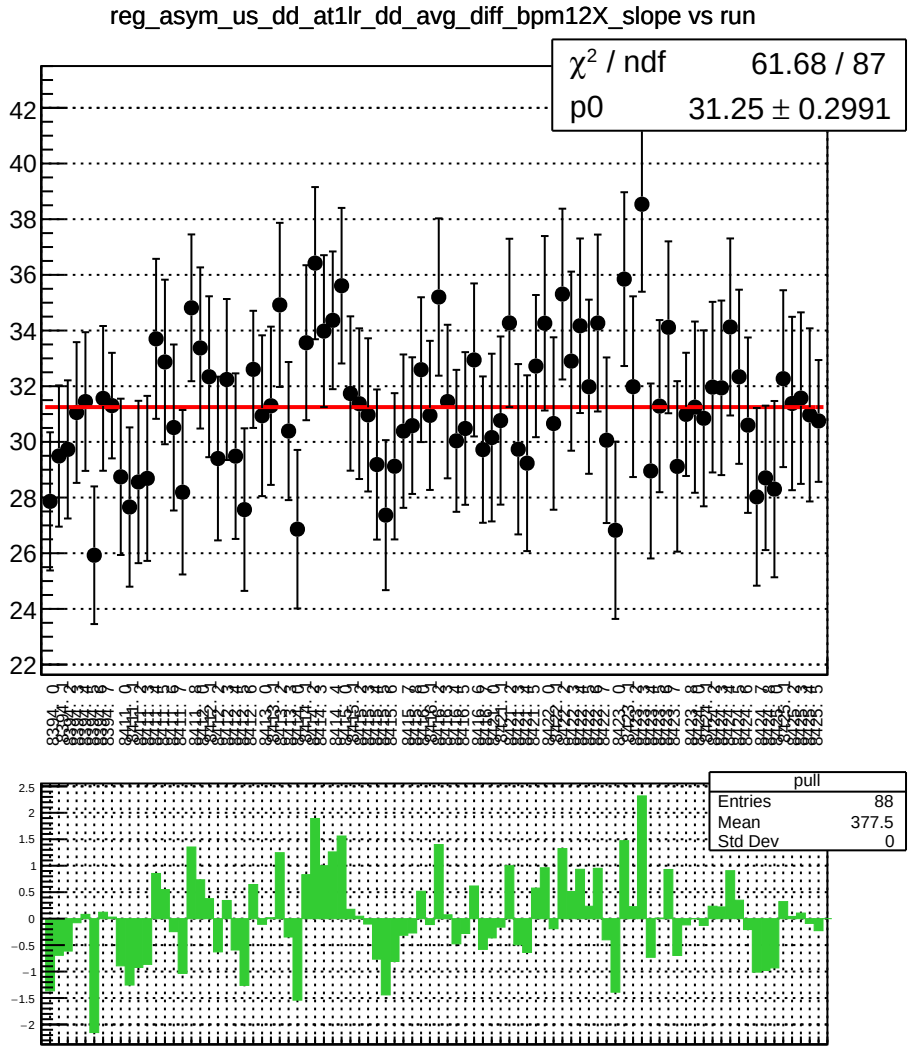

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 59.91 / 87
p0 −7.285 ± 4.747
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −71.58
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.003078
Std Dev 0.8251
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

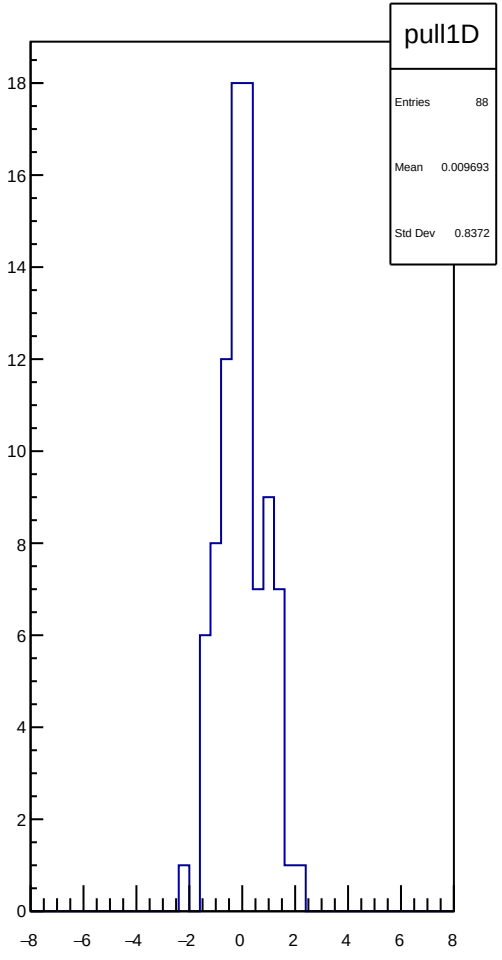

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 57.03 / 87
p0 −76.21 ± 2.836
pull
Entries 88
Mean 422
Std Dev 0

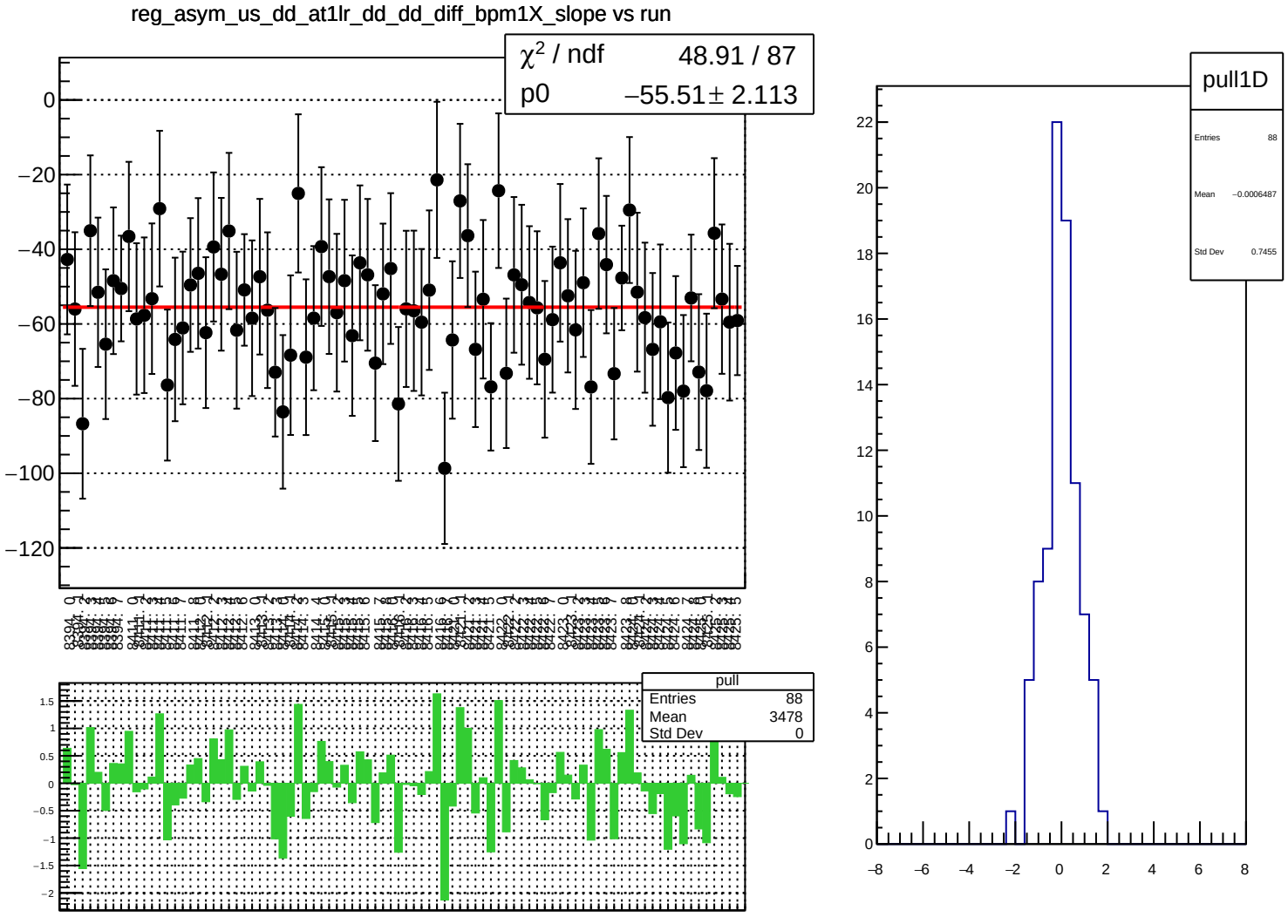

pull1D
Entries 88
Mean −0.005486
Std Dev 0.805

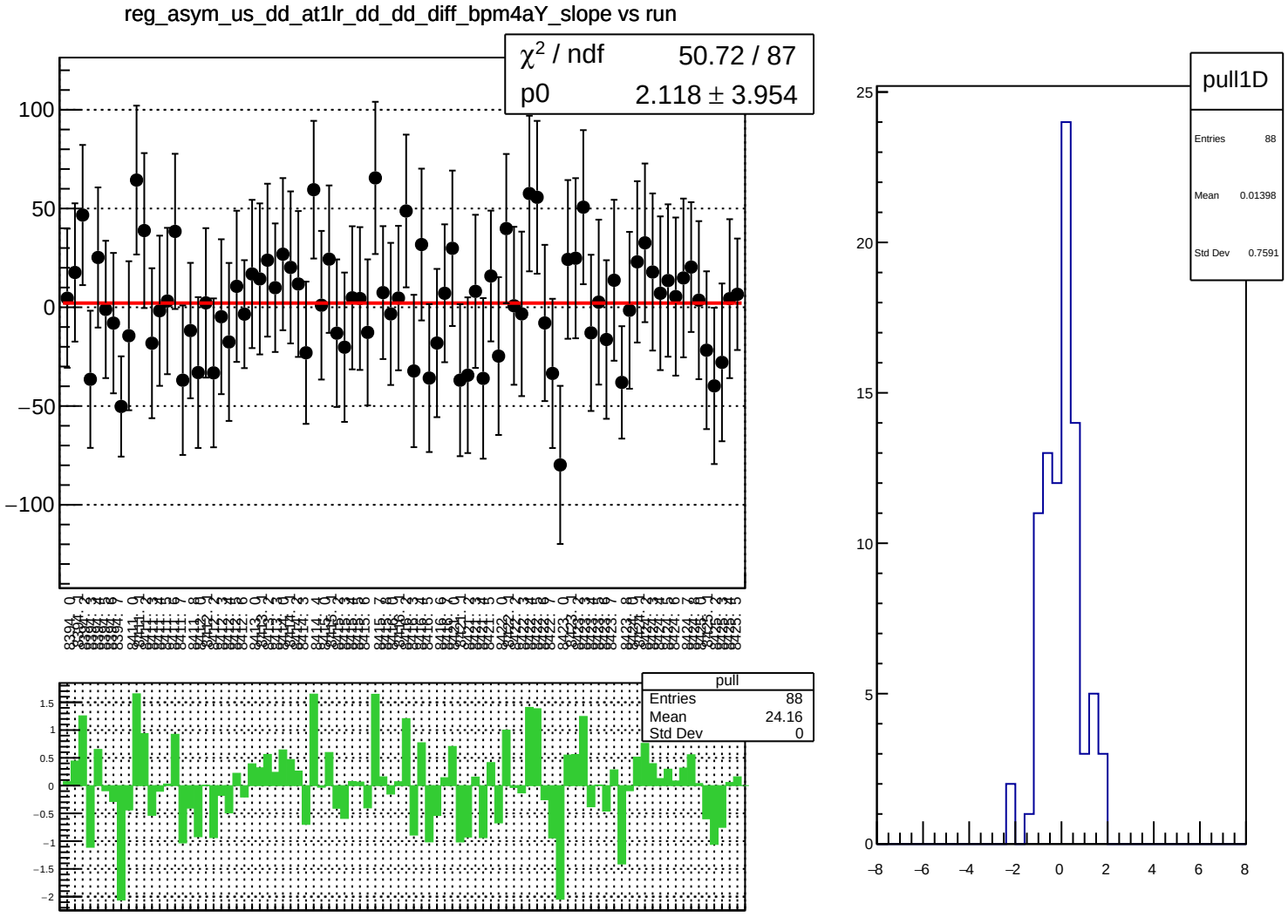

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 58.77 / 87
p0 −1.785 ± 4.981
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −293.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

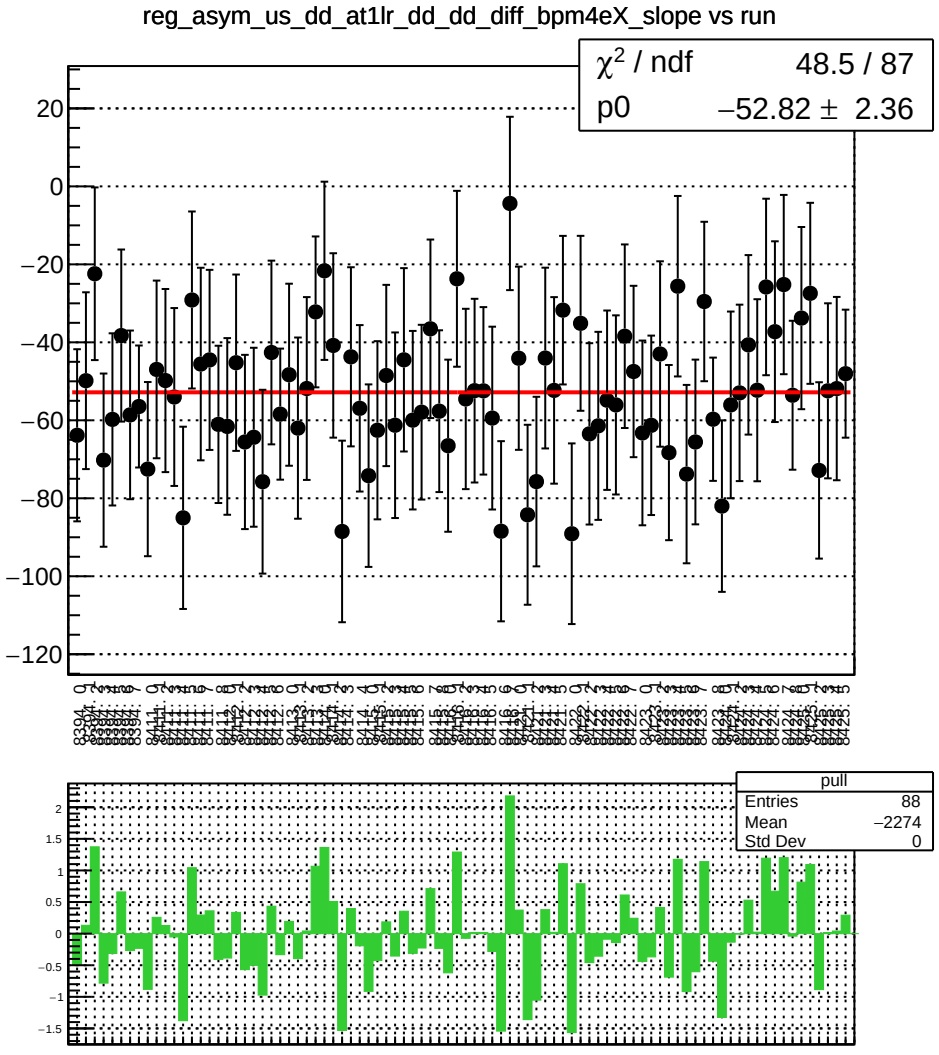

pull1D
Entries 88
Mean 0.002181
Std Dev 0.8172
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

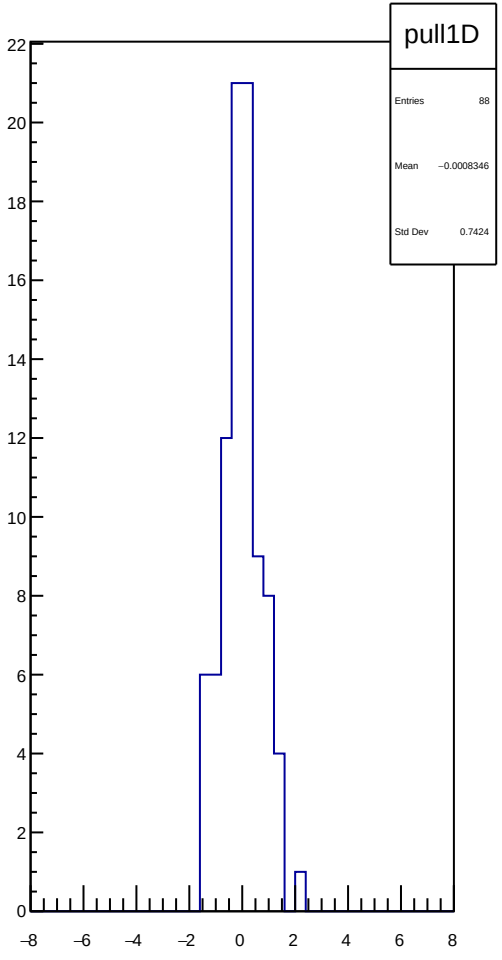

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 61.68 / 87
p0 31.25 ± 0.2991
pull
Entries 88
Mean 377.5
Std Dev 0

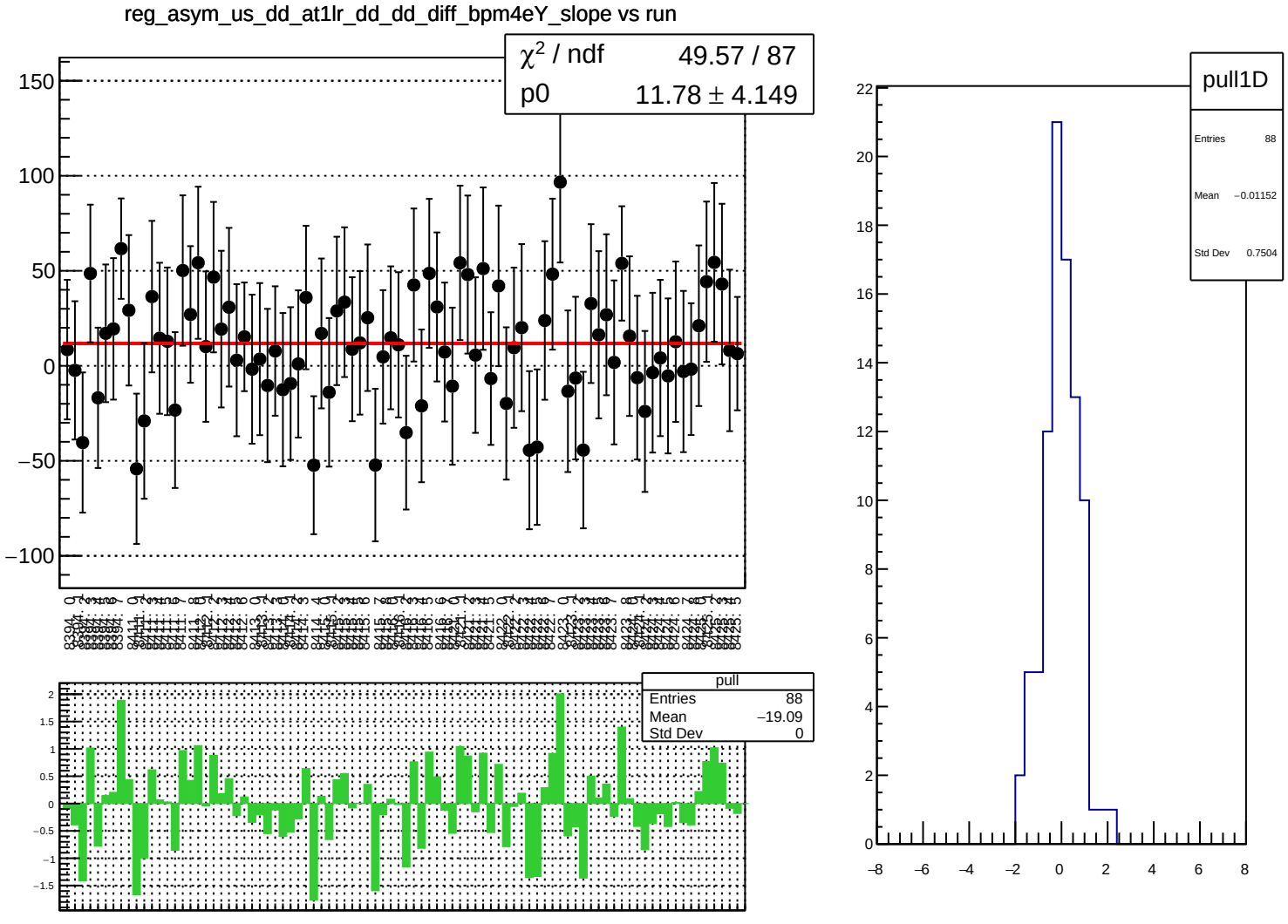

pull1D
Entries 88
Mean 0.009693
Std Dev 0.8372

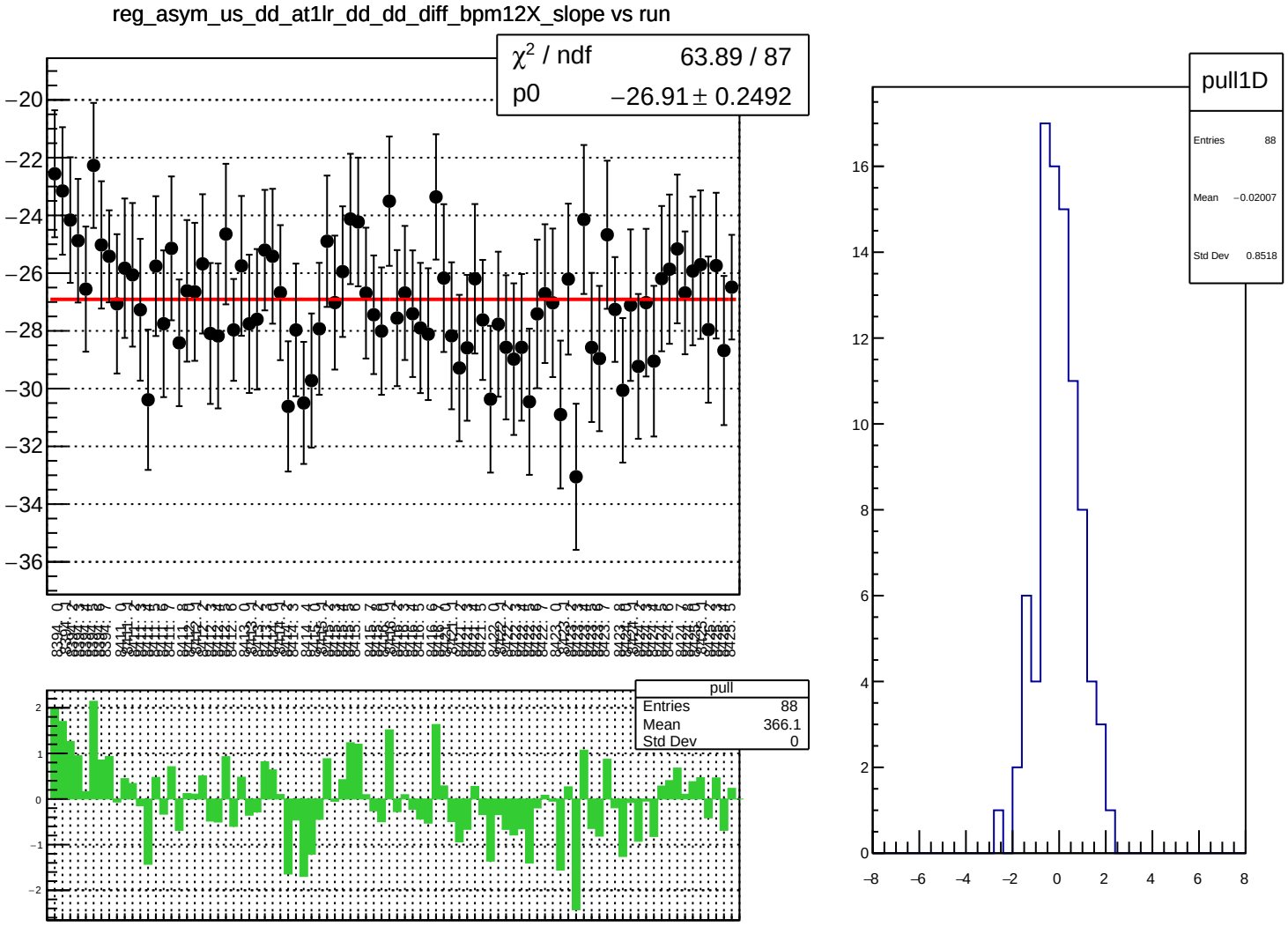

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 48.91 / 87
p0 −55.51 ± 2.113
pull
Entries 88
Mean 3478
Std Dev 0
pull1D
Entries 88
Mean −0.0006487
Std Dev 0.7455

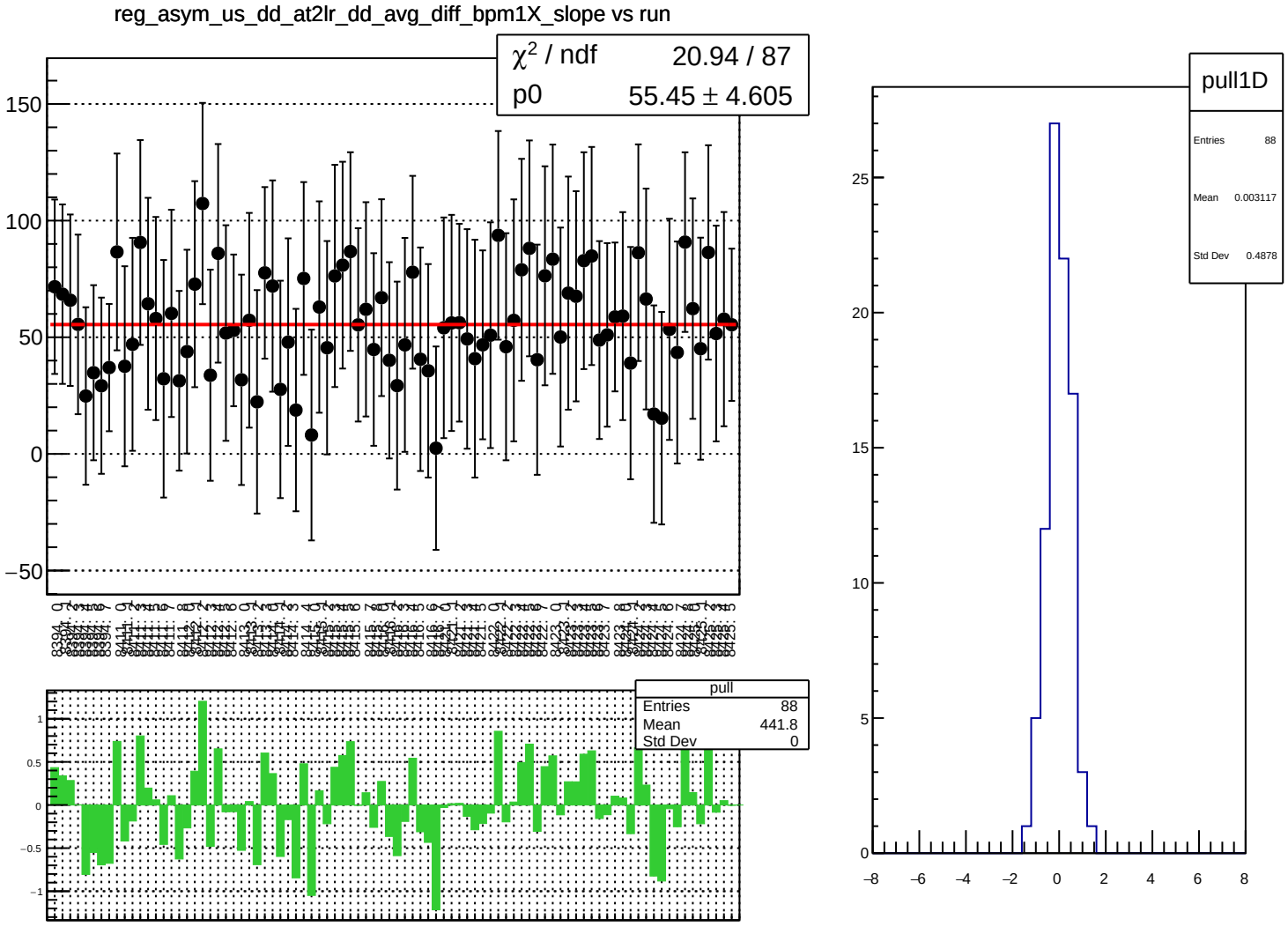

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 50.72 / 87
p0 2.118 ± 3.954
100
50
0
−50
−100
pull
Entries 88
Mean 24.16
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean 0.01398
Std Dev 0.7591
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

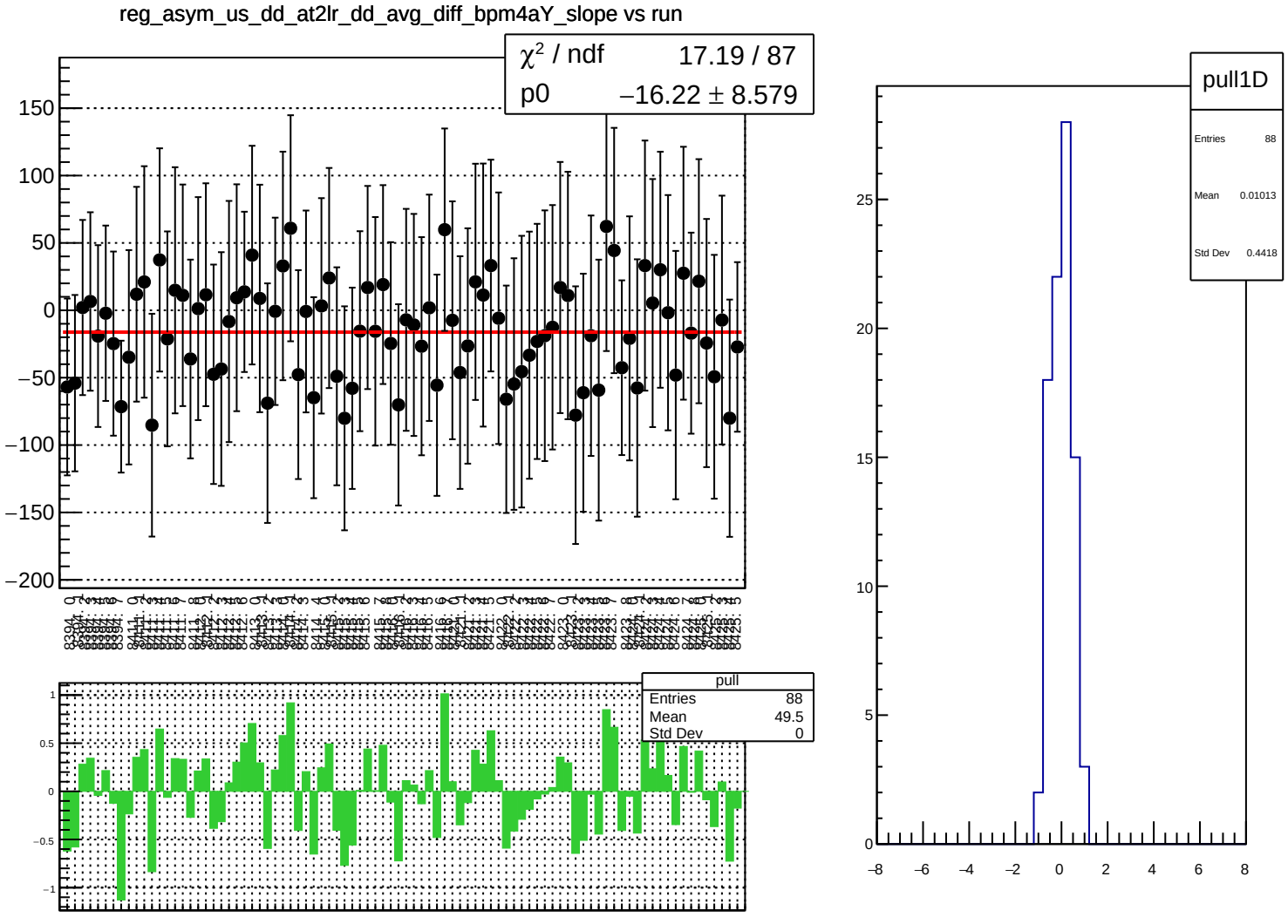

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 48.5 / 87
p0 −52.82 ± 2.36
pull
Entries 88
Mean −2274
Std Dev 0

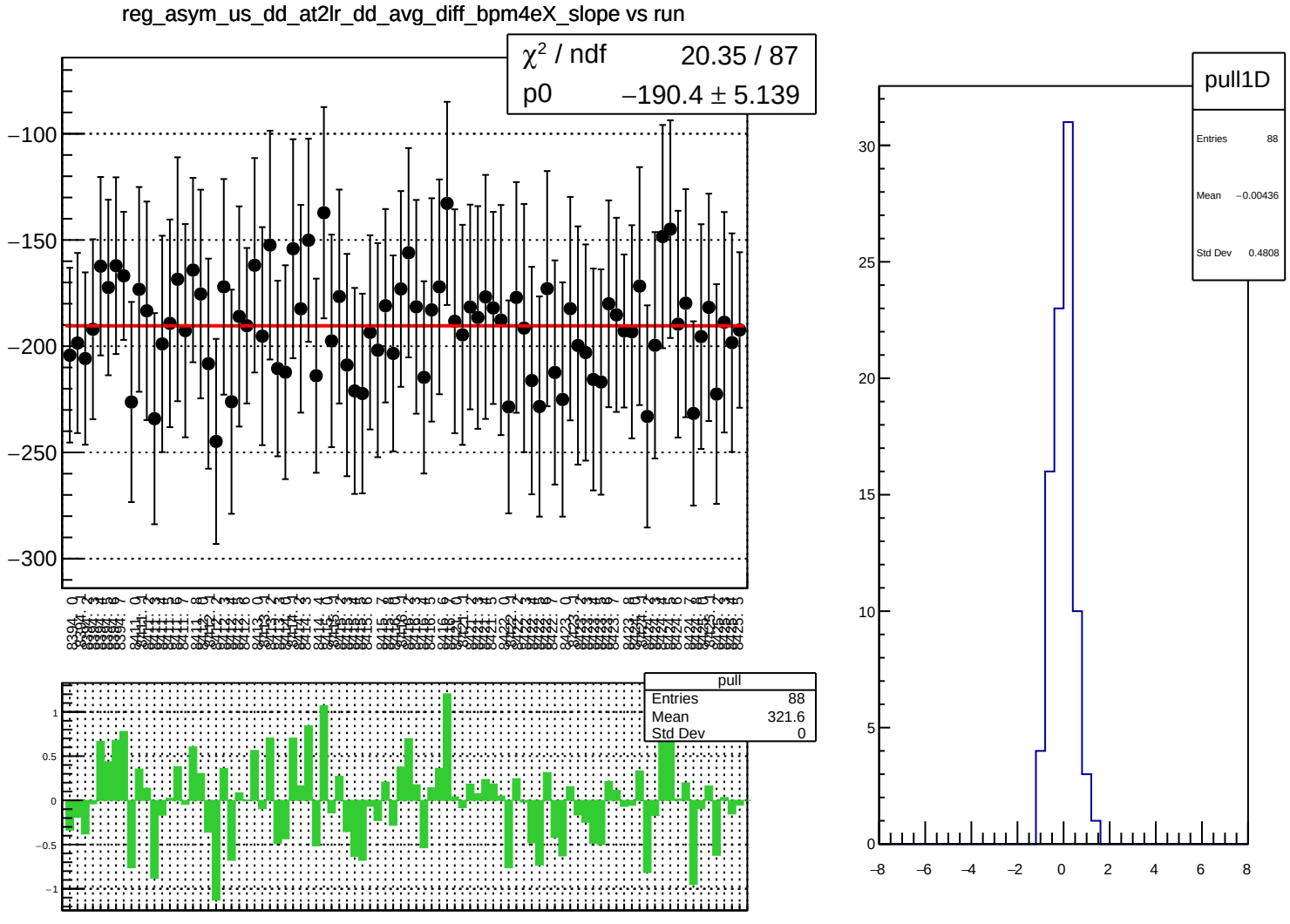

pull1D
Entries 88
Mean −0.0008346
Std Dev 0.7424

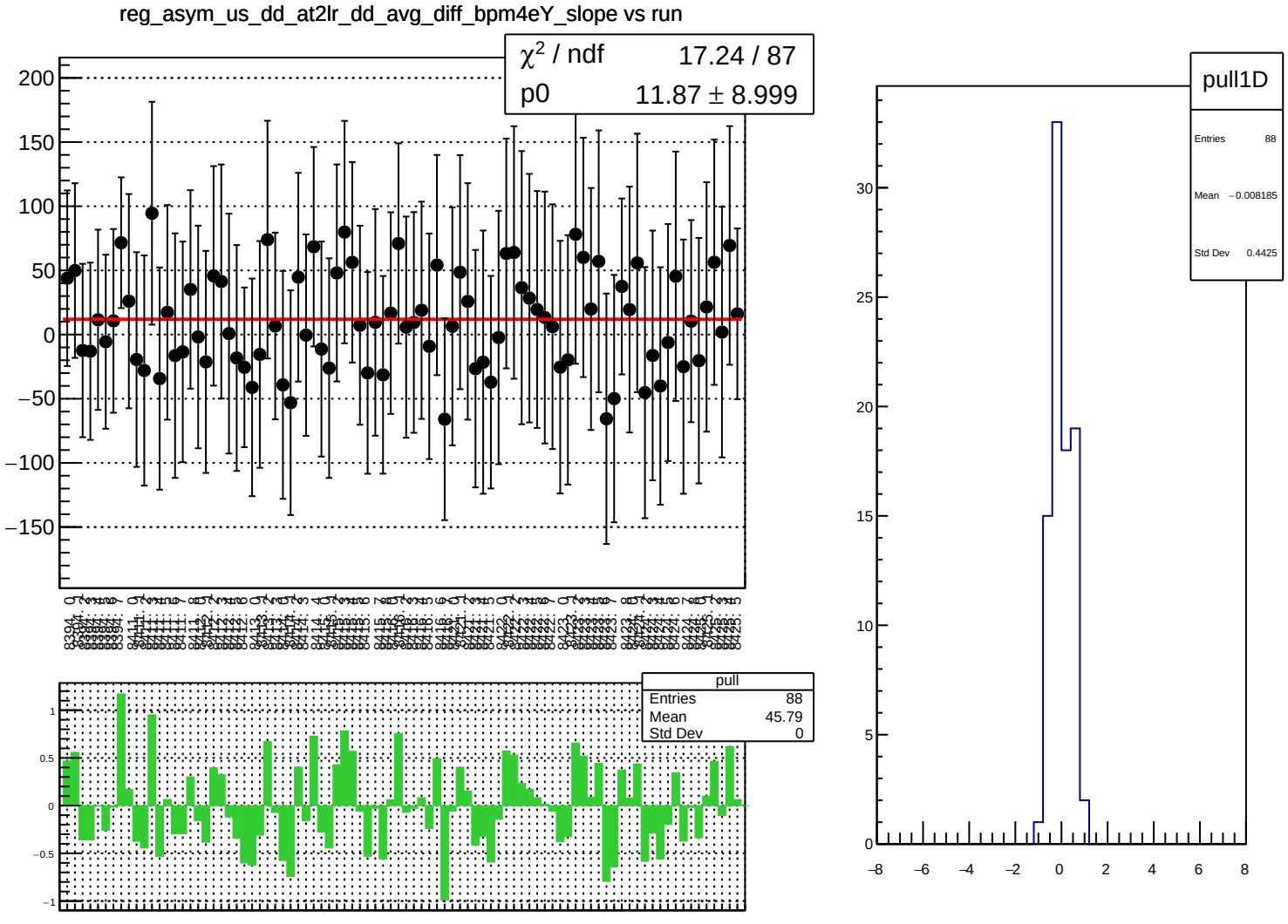

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 49.57 / 87
p0 11.78 ± 4.149
150
100
50
0
−50
−100
pull
Entries 88
Mean −19.09
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 88
Mean −0.01152
Std Dev 0.7504
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

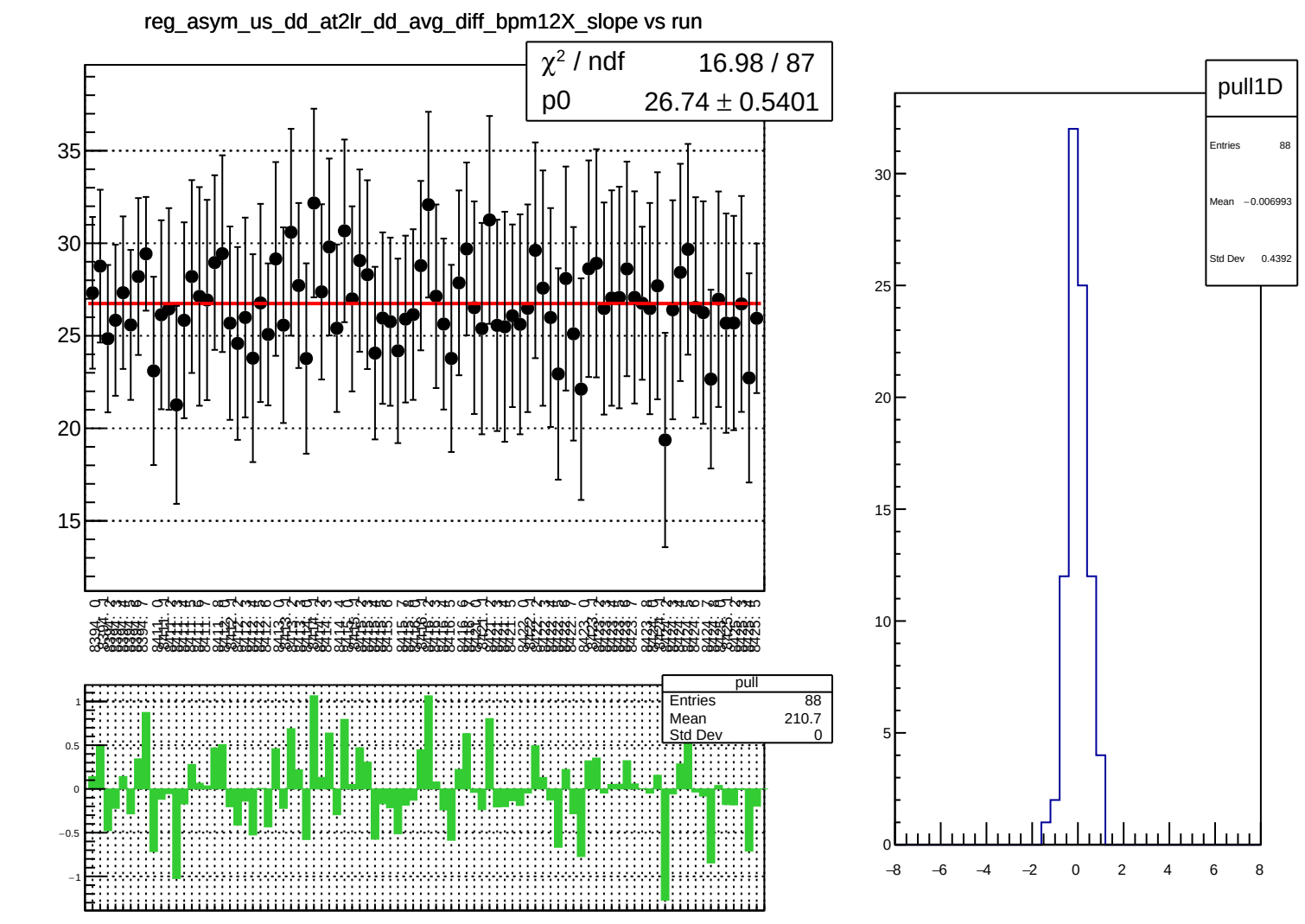

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 63.89 / 87
p0 −26.91 ± 0.2492
pull
Entries 88
Mean 366.1
Std Dev 0
pull1D
Entries 88
Mean −0.02007
Std Dev 0.8518

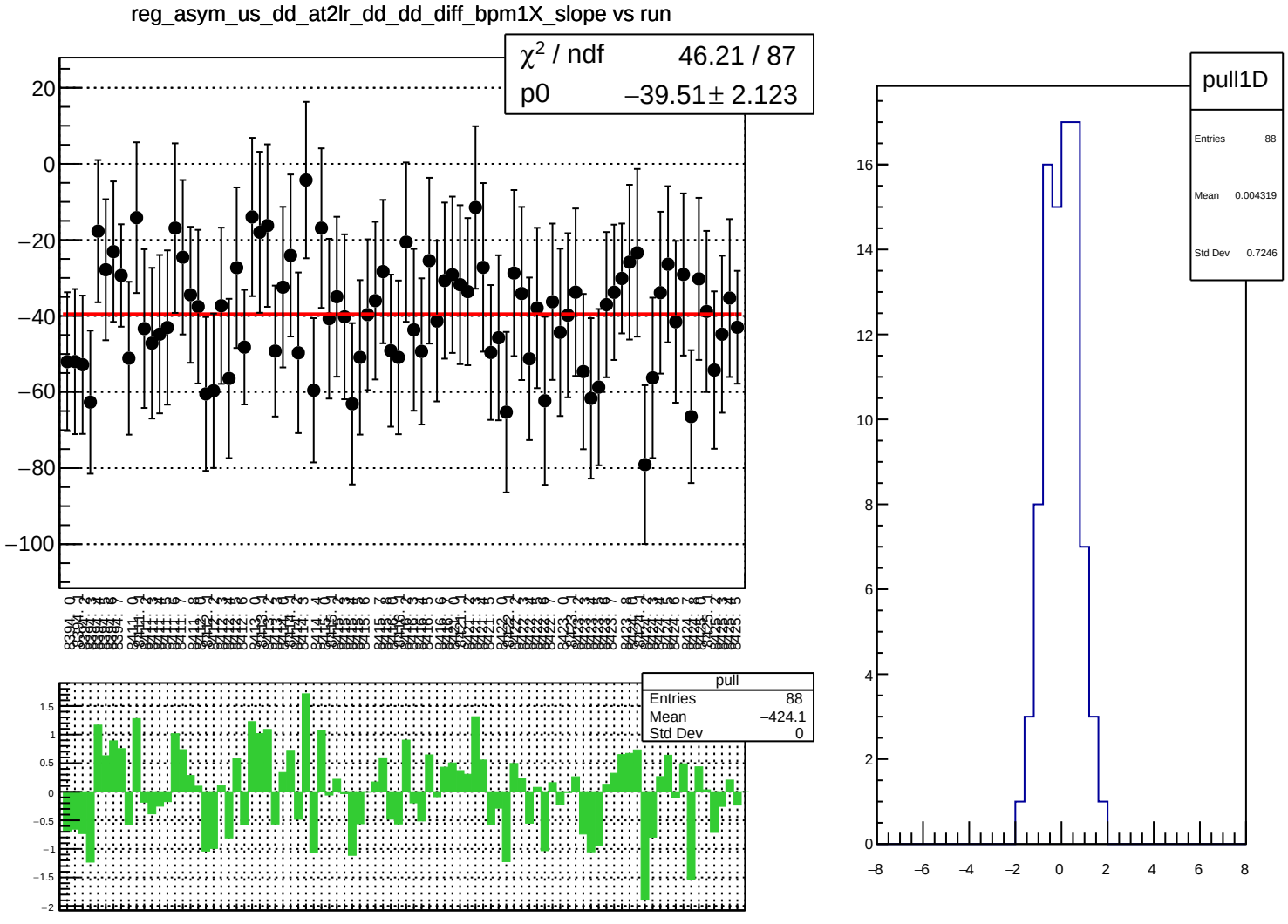

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 20.94 / 87
p0 55.45 ± 4.605
150
100
50
0
−50
pull
Entries 88
Mean 441.8
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.003117
Std Dev 0.4878
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

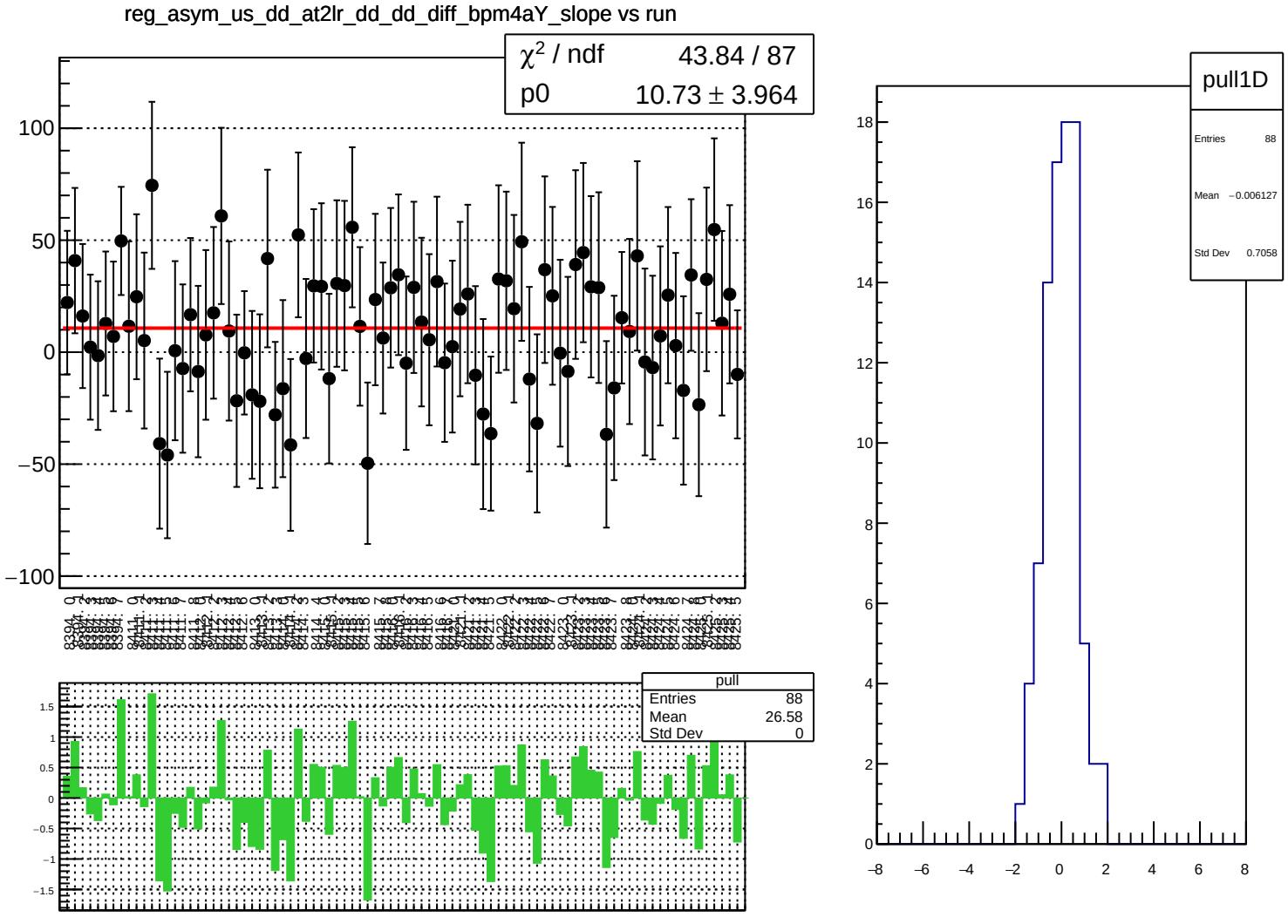

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.19 / 87
p0 −16.22 ± 8.579
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 49.5
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.01013
Std Dev 0.4418
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

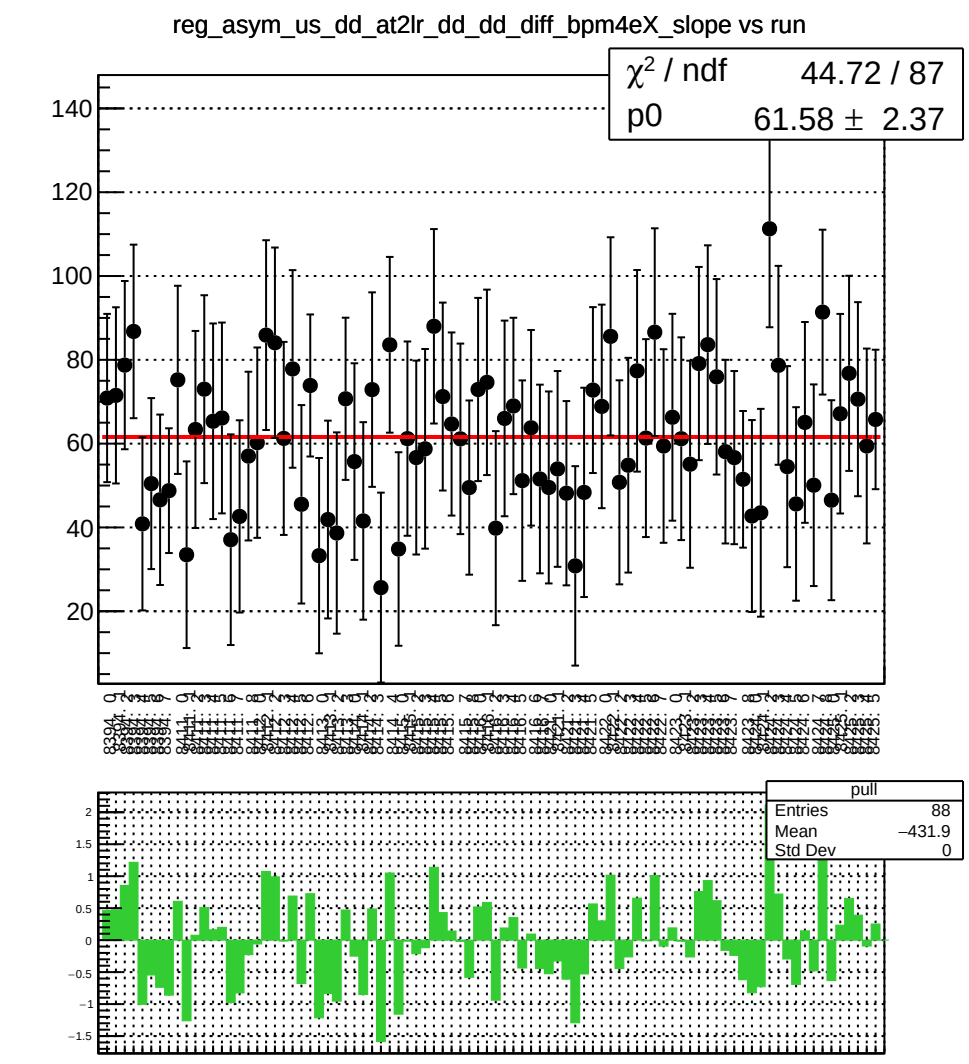

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 20.35 / 87
p0 −190.4 ± 5.139
−100
−150
−200
−250
−300
pull
Entries 88
Mean 321.6
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean −0.00436
Std Dev 0.4808
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

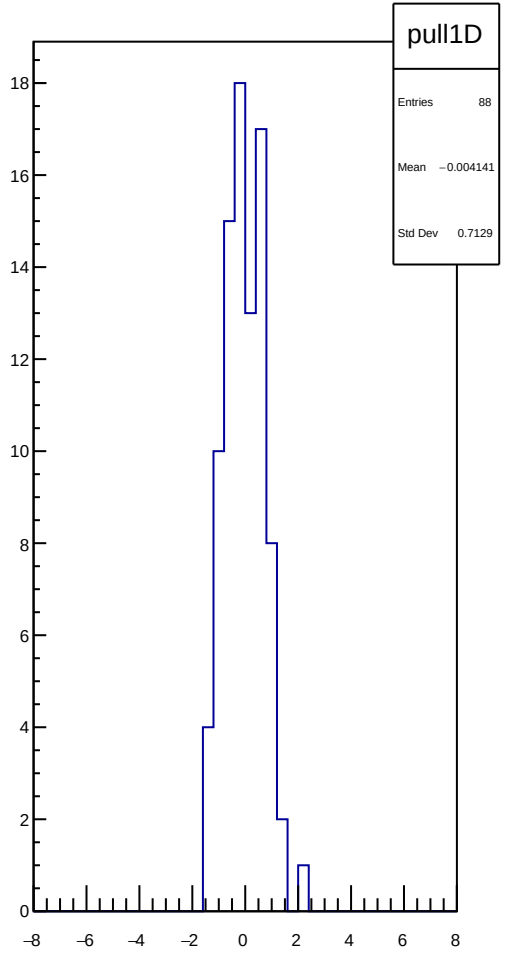

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.24 / 87
p0 11.87 ± 8.999
pull
Entries 88
Mean 45.79
Std Dev 0
pull1D
Entries 88
Mean −0.008185
Std Dev 0.4425

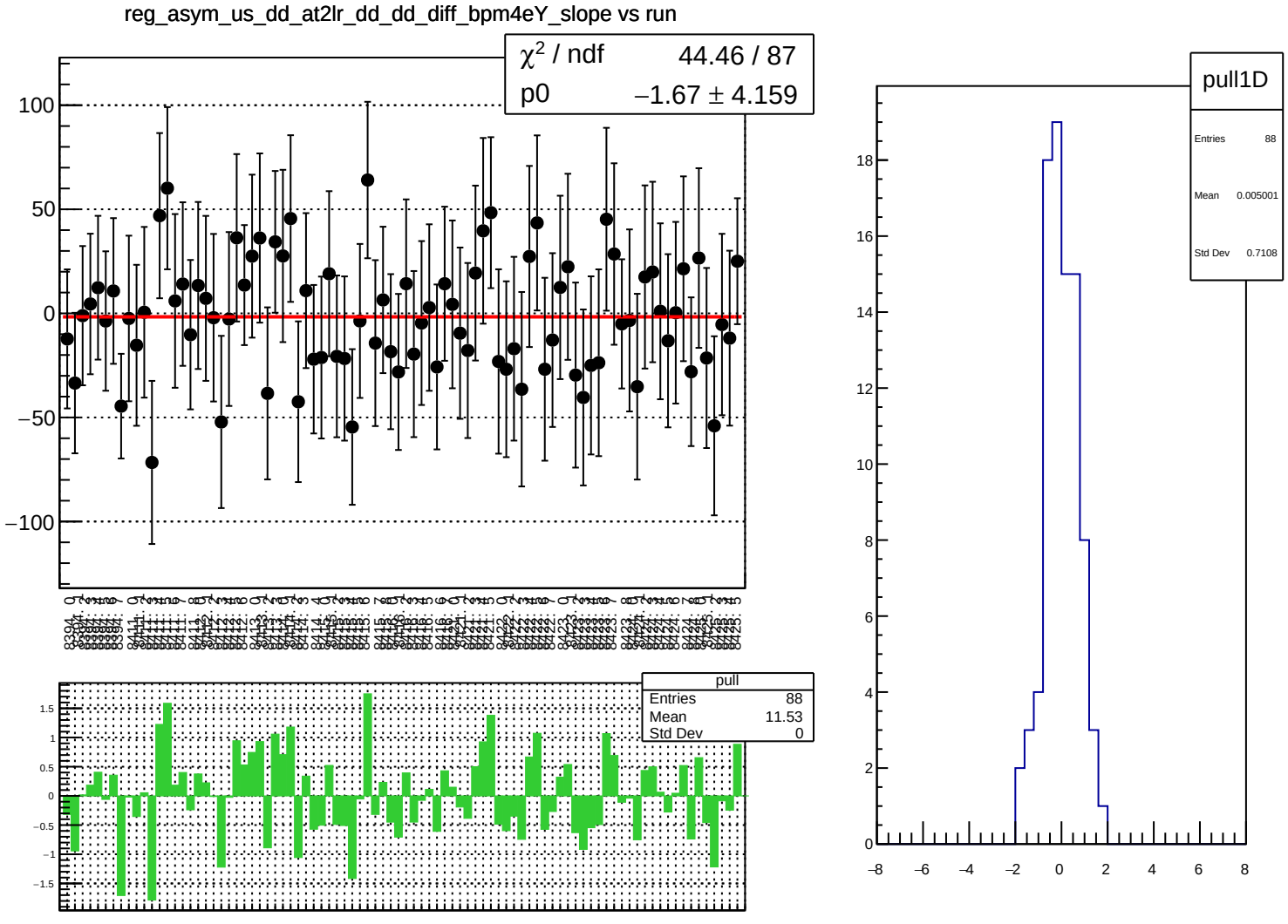

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 16.98 / 87
p0 26.74 ± 0.5401
35
30
25
20
15
pull
Entries 88
Mean 210.7
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean −0.006993
Std Dev 0.4392
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

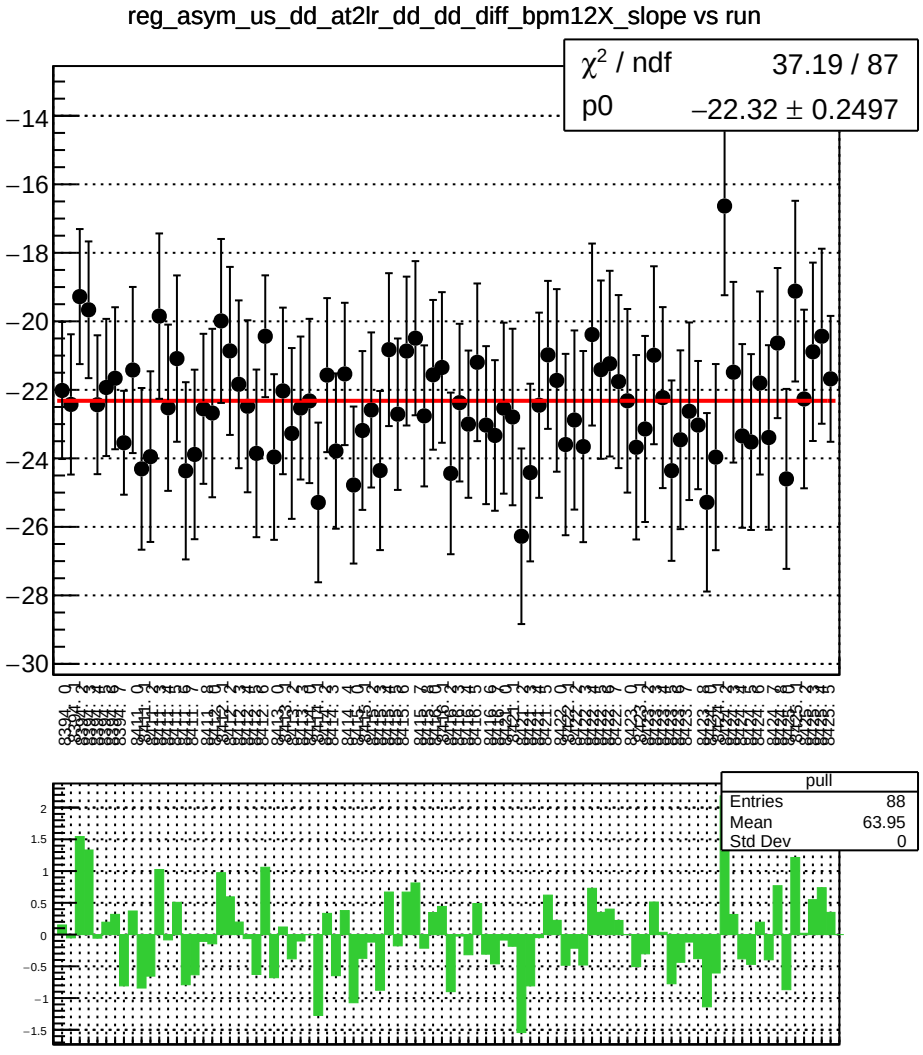

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 46.21 / 87
p0 −39.51 ± 2.123
pull
Entries 88
Mean −424.1
Std Dev 0
pull1D
Entries 88
Mean 0.004319
Std Dev 0.7246

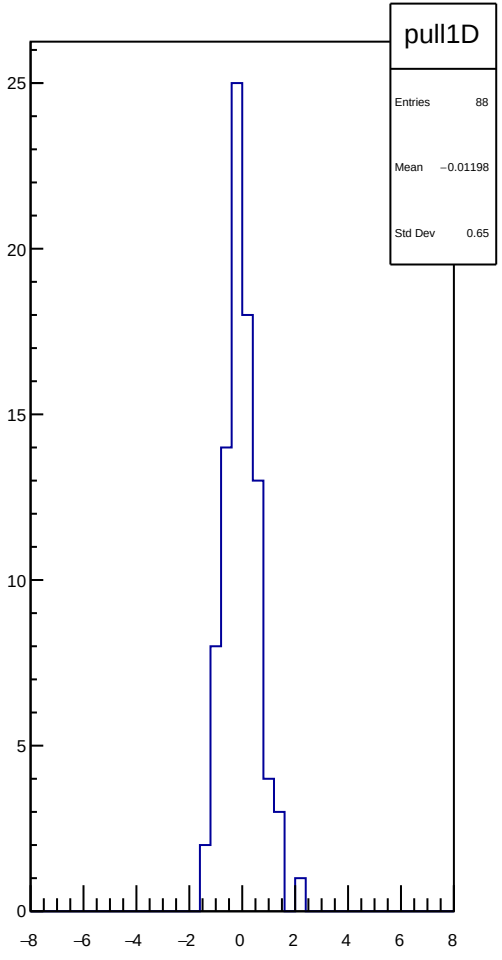

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 43.84 / 87
p0 10.73 ± 3.964
100
50
0
−50
−100
pull
Entries 88
Mean 26.58
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 88
Mean −0.006127
Std Dev 0.7058
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

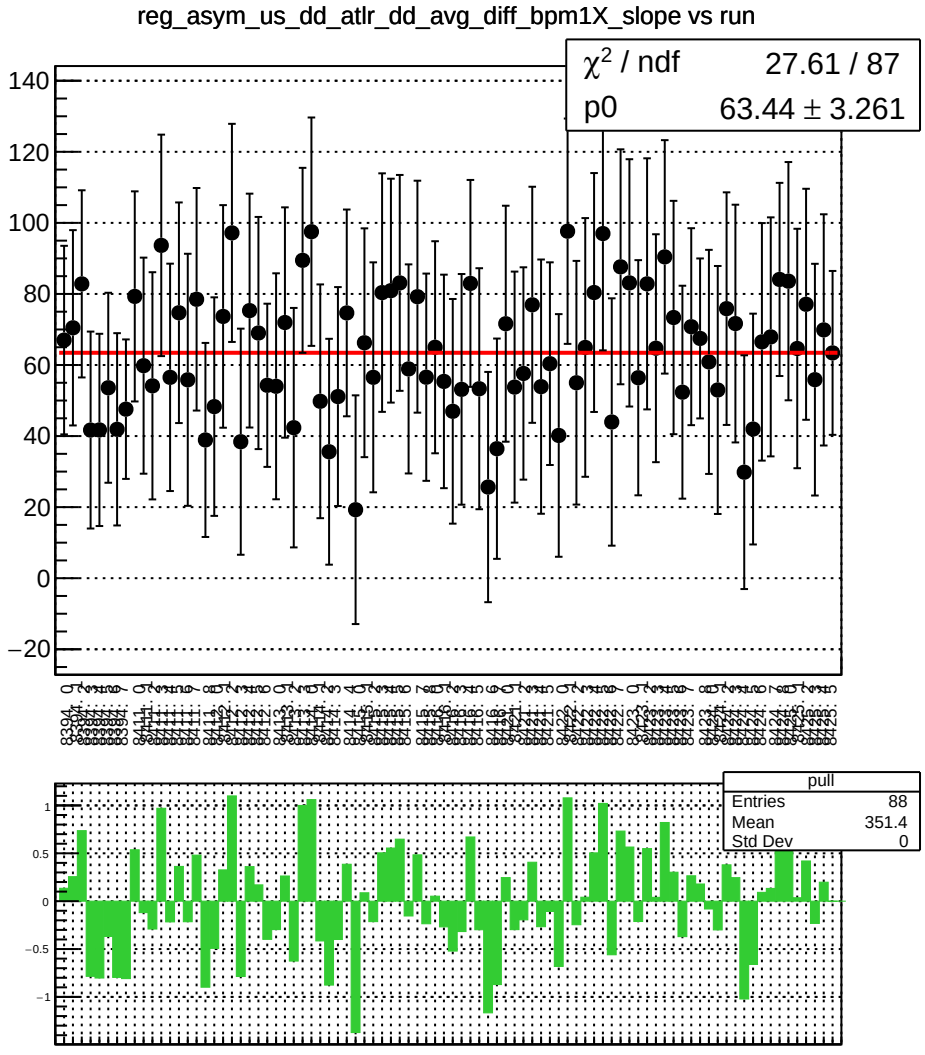

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 44.72 / 87
p0 61.58 ± 2.37
pull
Entries 88
Mean −431.9
Std Dev 0

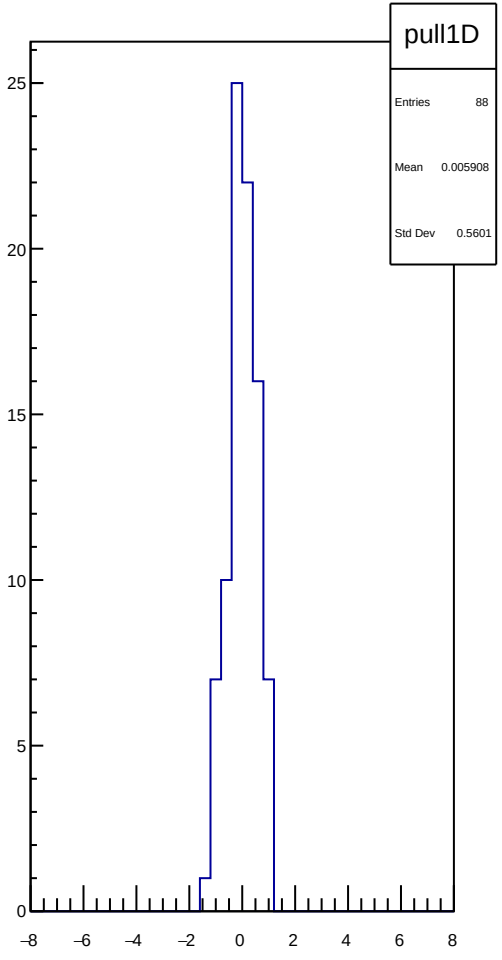

pull1D
Entries 88
Mean −0.004141
Std Dev 0.7129

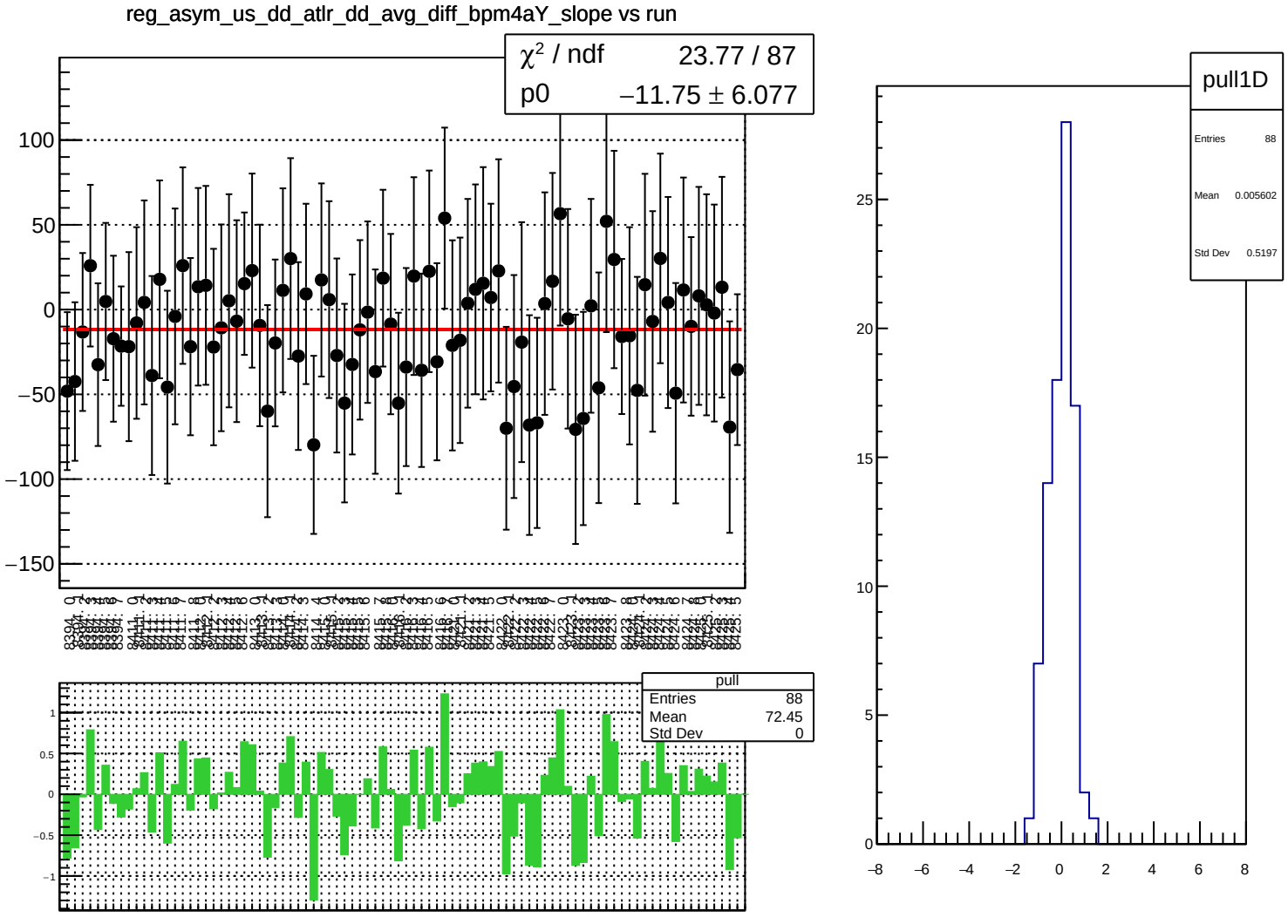

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 44.46 / 87
p0 −1.67 ± 4.159
100
50
0
−50
−100
pull
Entries 88
Mean 11.53
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 88
Mean 0.005001
Std Dev 0.7108
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

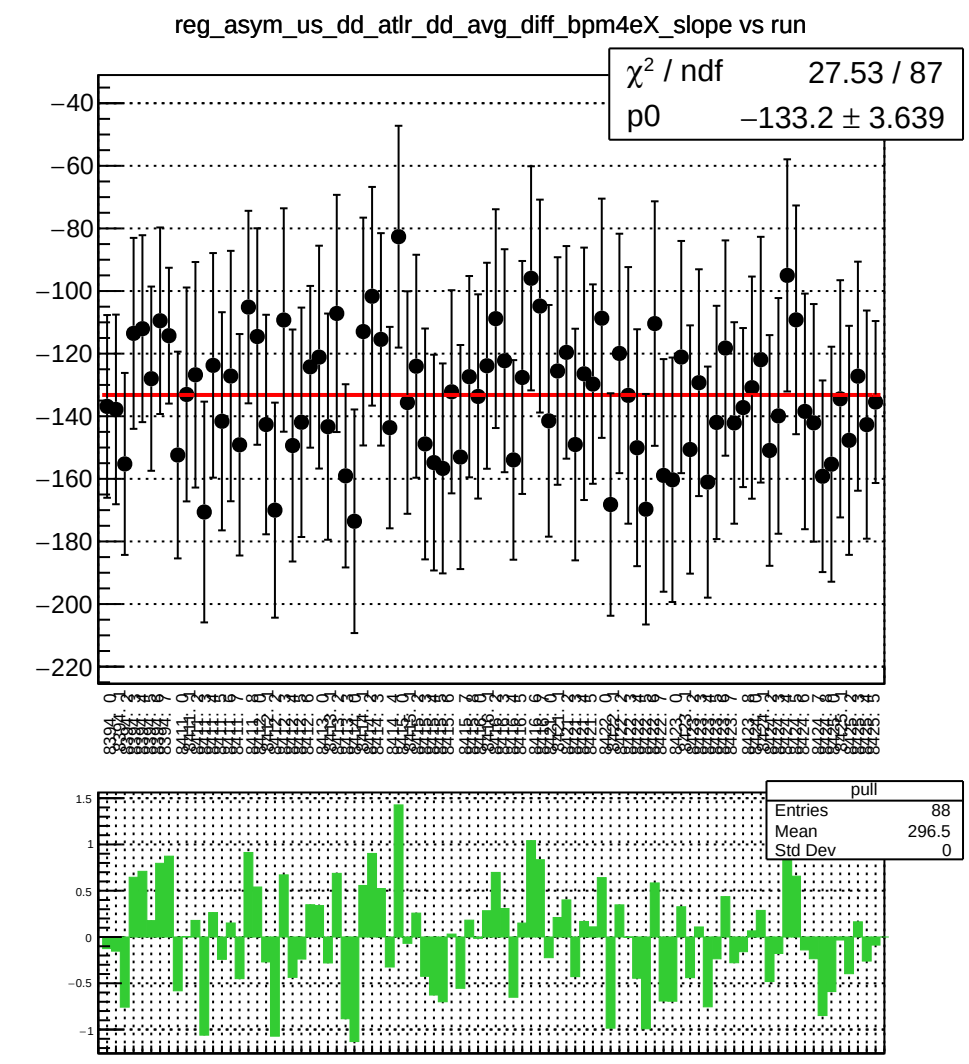

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 37.19 / 87
p0 −22.32 ± 0.2497
pull
Entries 88
Mean 63.95
Std Dev 0

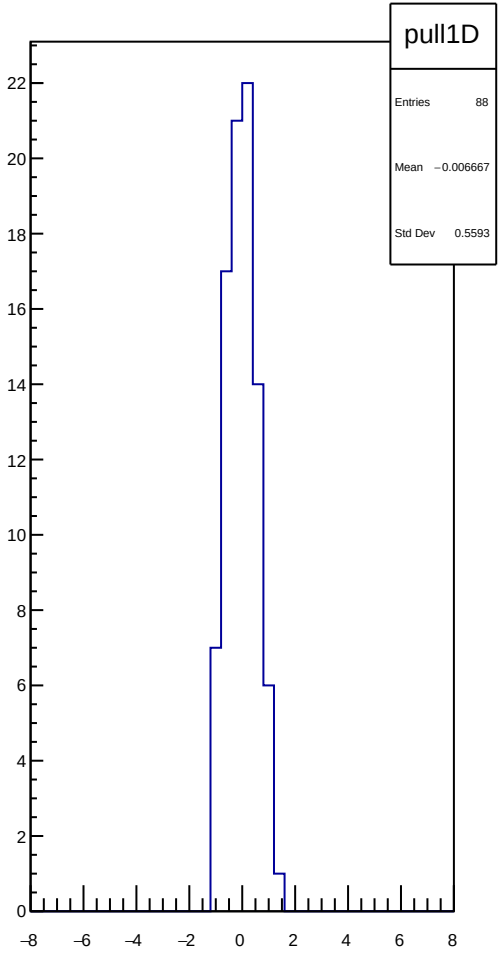

pull1D
Entries 88
Mean −0.01198
Std Dev 0.65

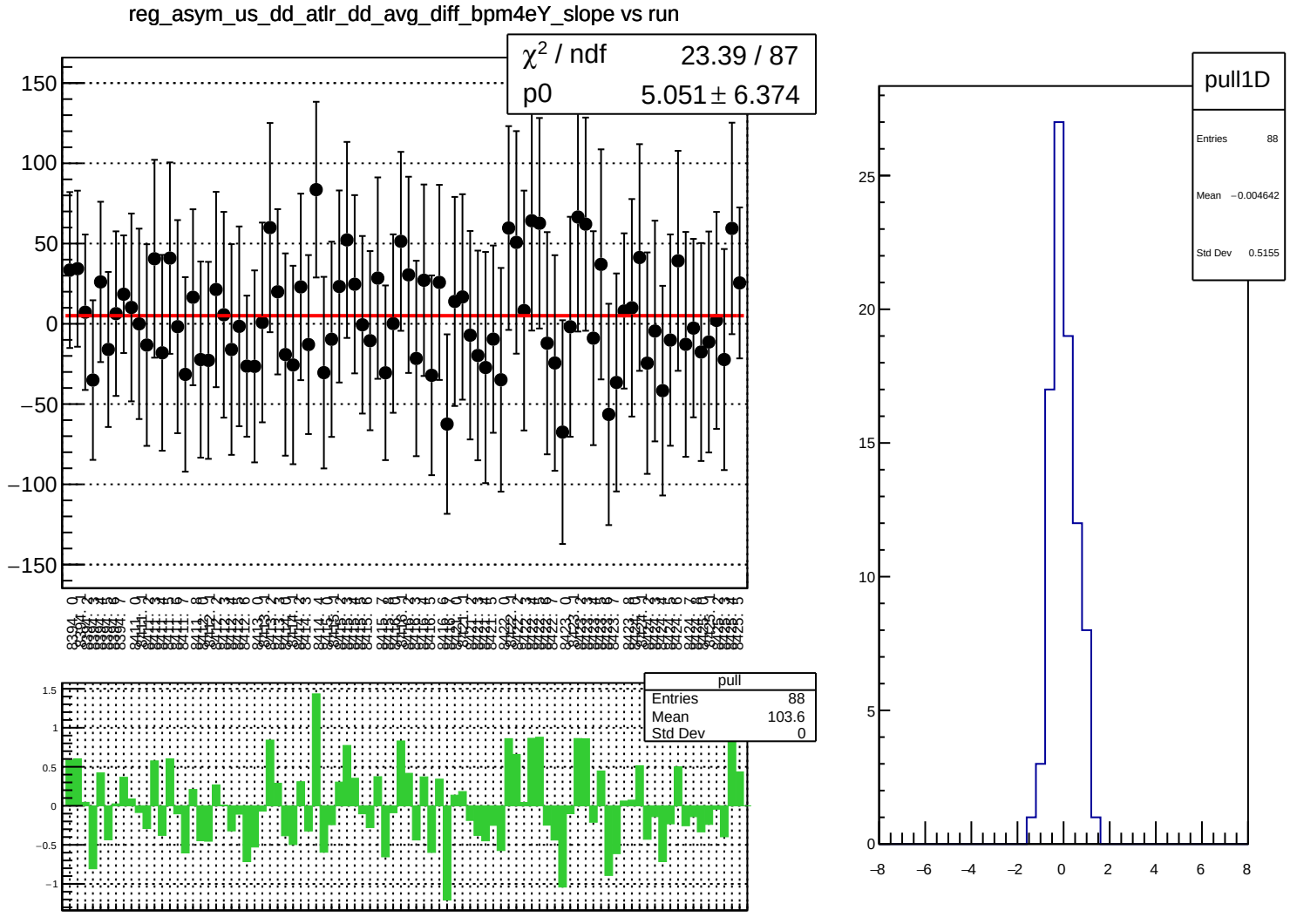

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 27.61 / 87
p0 63.44 ± 3.261
pull
Entries 88
Mean 351.4
Std Dev 0

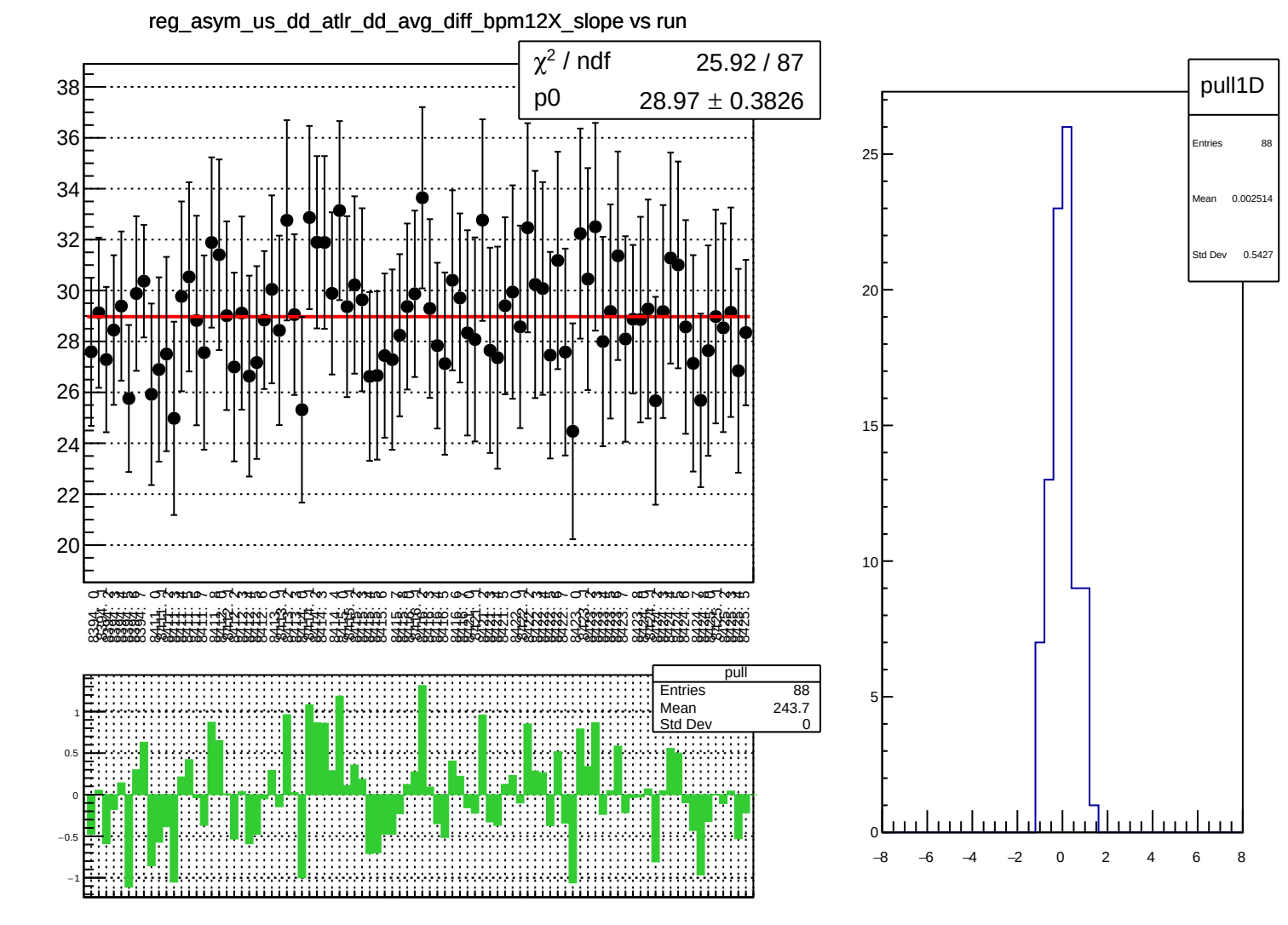

pull1D
Entries 88
Mean 0.005908
Std Dev 0.5601

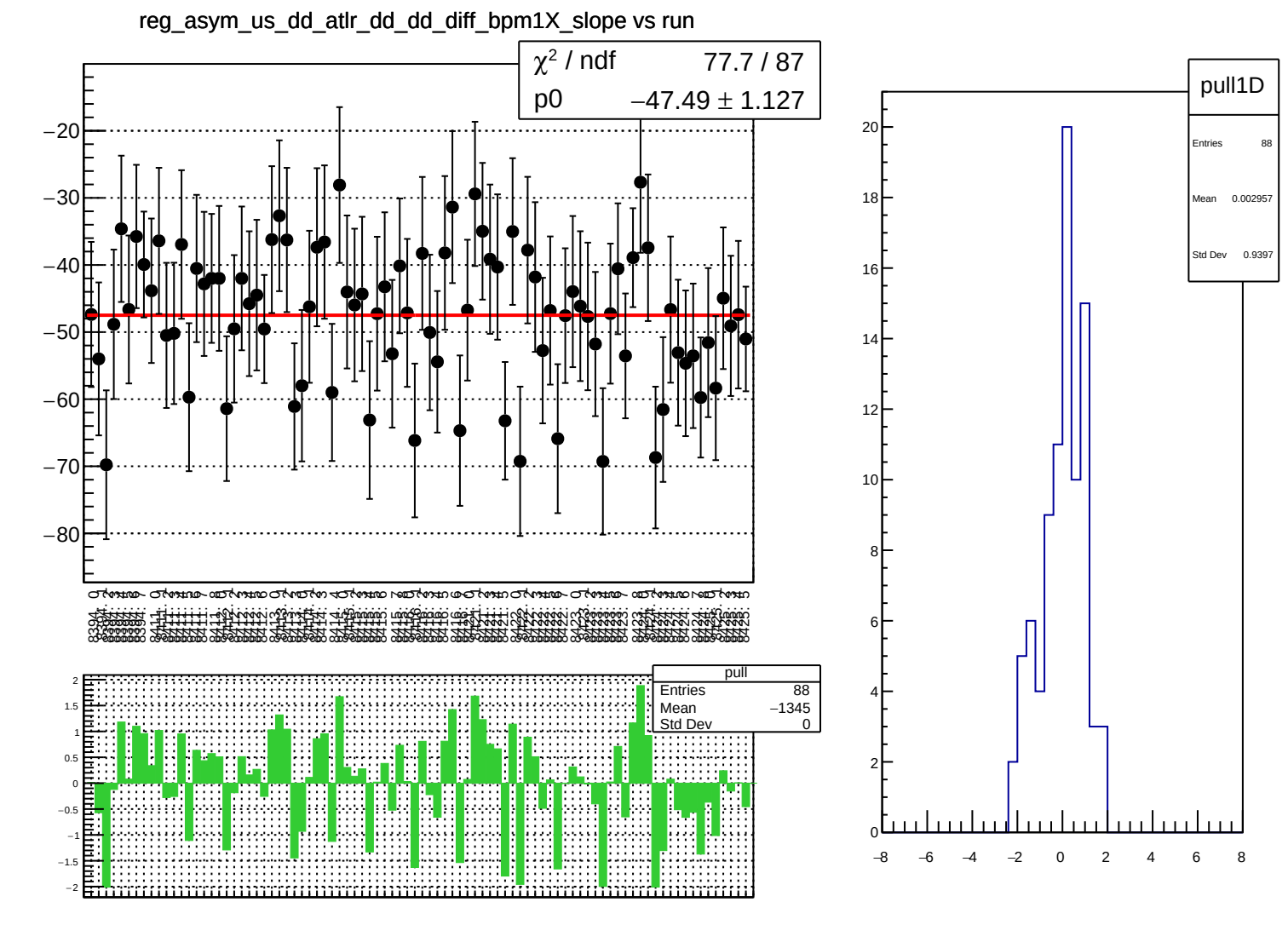

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 23.77 / 87
p0 −11.75 ± 6.077
pull
Entries 88
Mean 72.45
Std Dev 0
pull1D
Entries 88
Mean 0.005602
Std Dev 0.5197

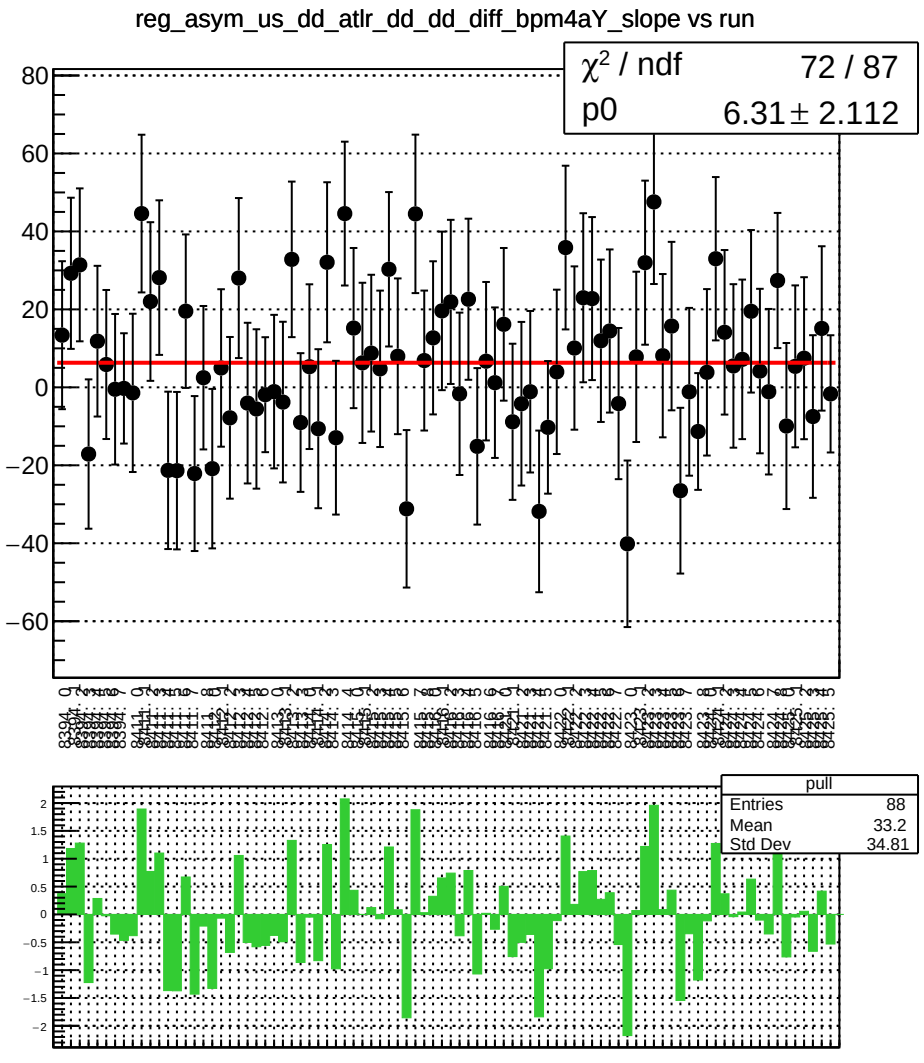

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 27.53 / 87
p0 −133.2 ± 3.639
pull
Entries 88
Mean 296.5
Std Dev 0

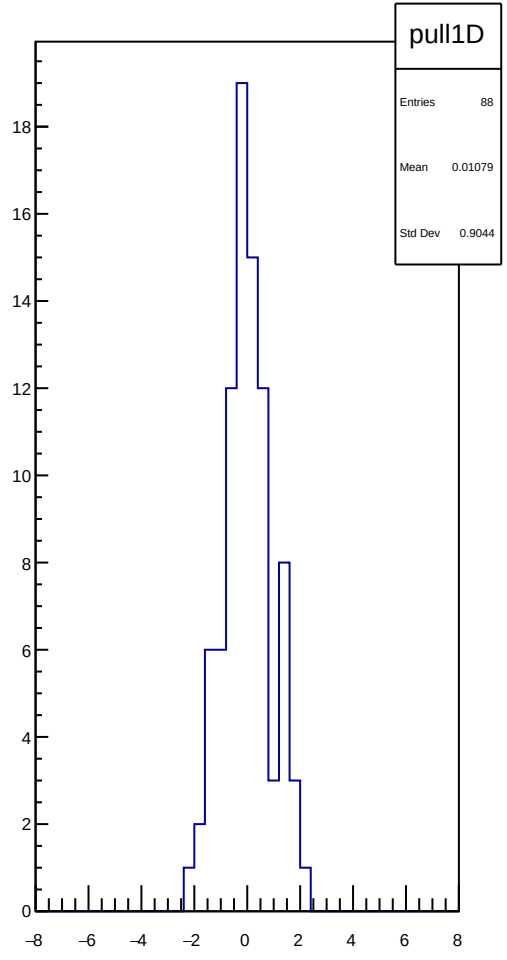

pull1D
Entries 88
Mean −0.006667
Std Dev 0.5593

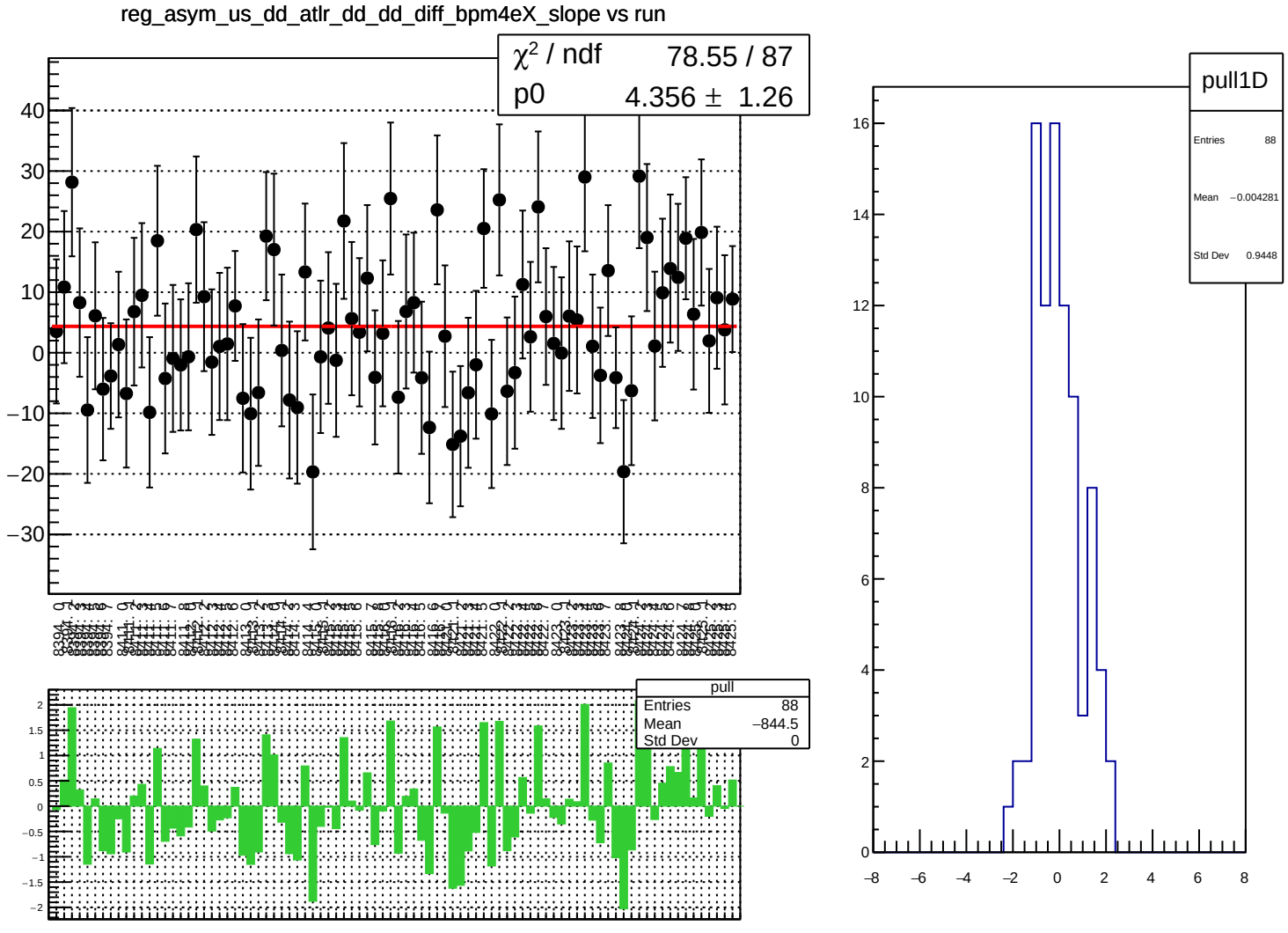

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 23.39 / 87
p0 5.051 ± 6.374
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 103.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean −0.004642
Std Dev 0.5155
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

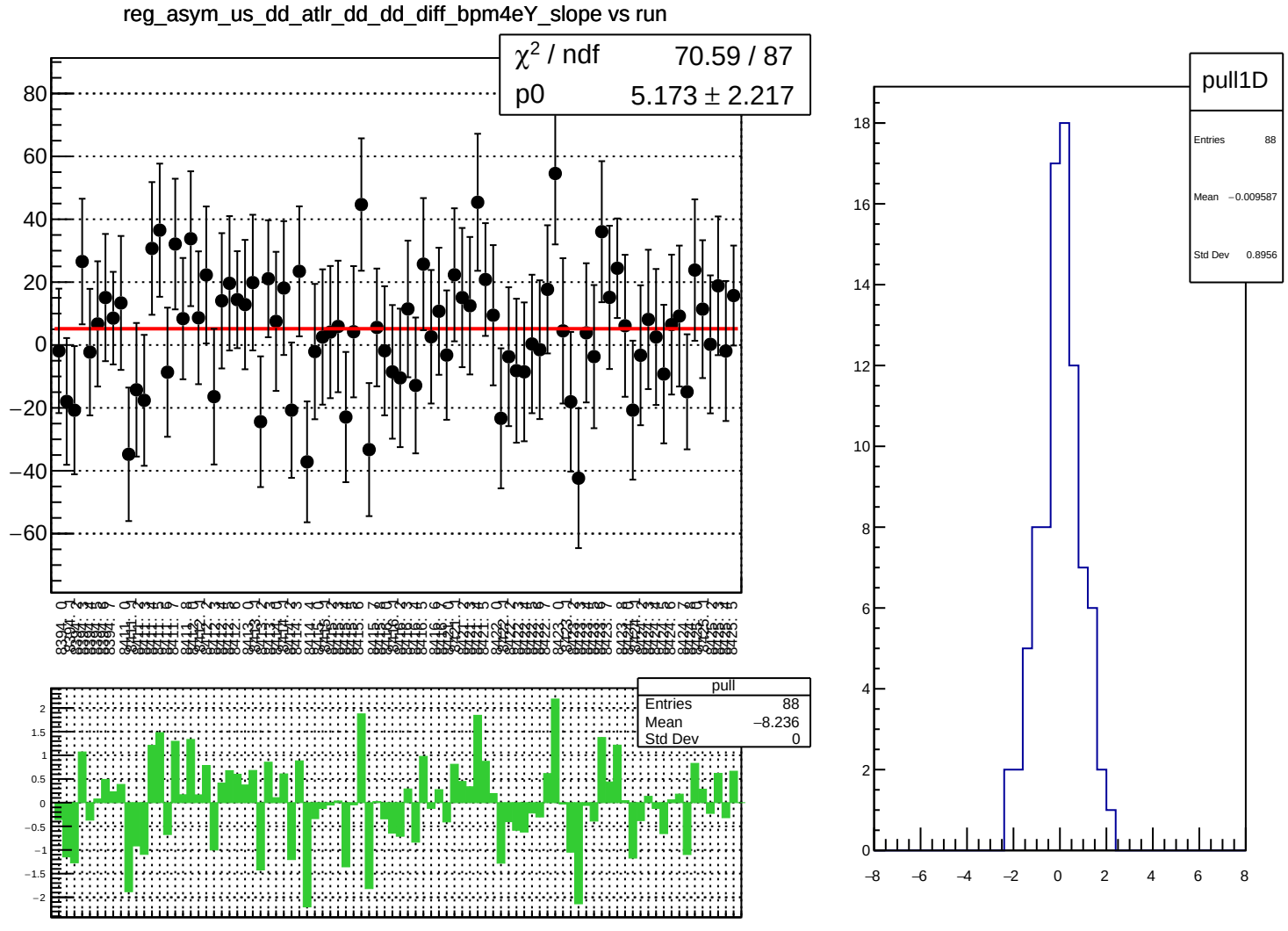

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 25.92 / 87
p0 28.97 ± 0.3826
pull
Entries 88
Mean 243.7
Std Dev 0
pull1D
Entries 88
Mean 0.002514
Std Dev 0.5427

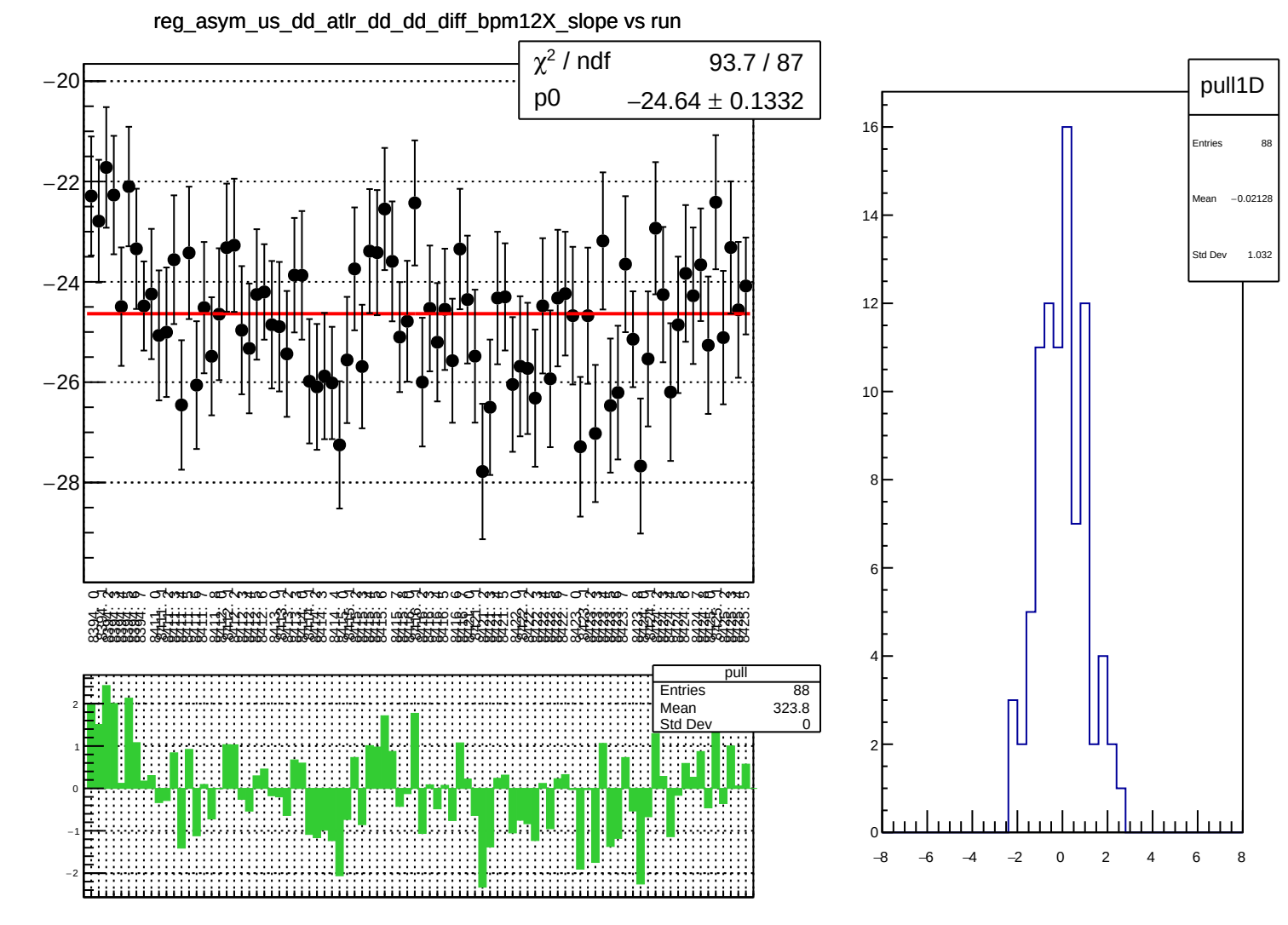

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 77.7 / 87
p0 −47.49 ± 1.127
pull
Entries 88
Mean −1345
Std Dev 0
pull1D
Entries 88
Mean 0.002957
Std Dev 0.9397

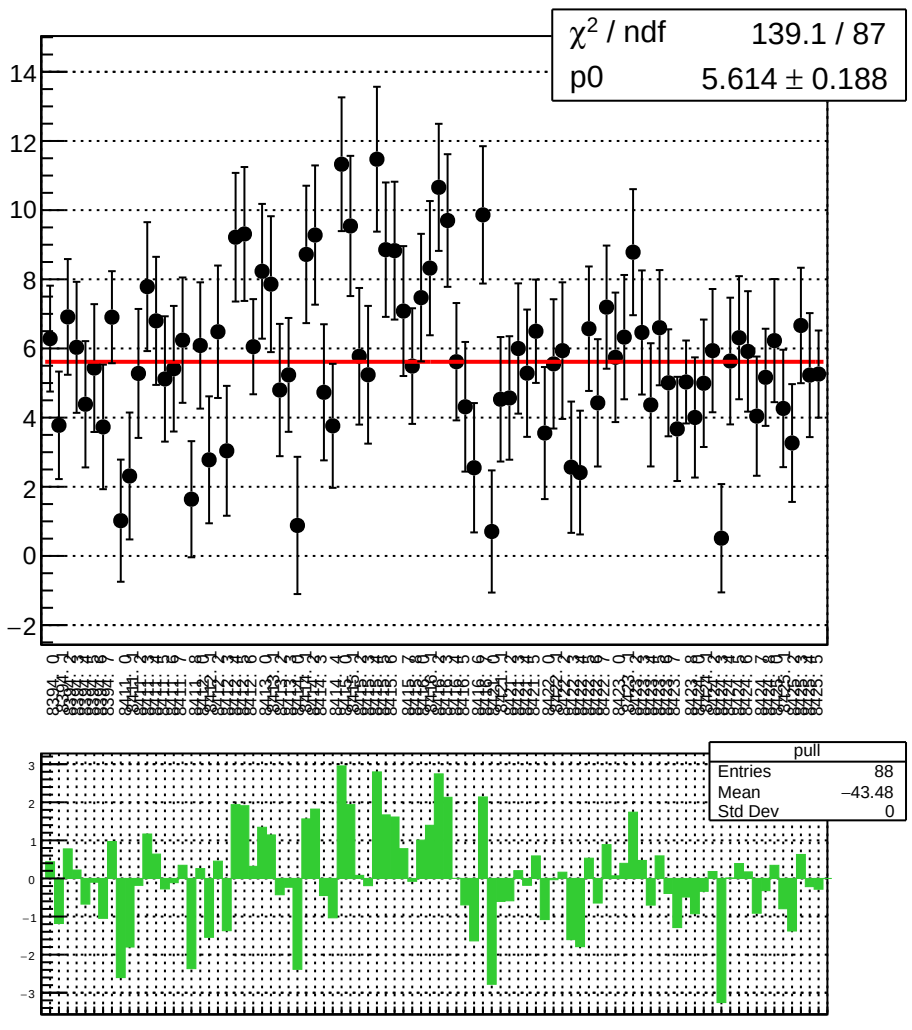

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 72 / 87
p0 6.31 ± 2.112
pull
Entries 88
Mean 33.2
Std Dev 34.81

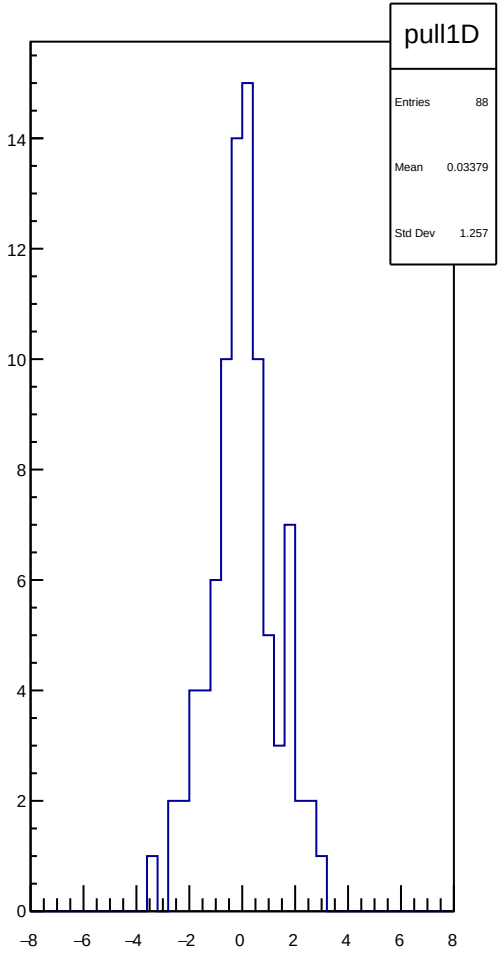

pull1D
Entries 88
Mean 0.01079
Std Dev 0.9044

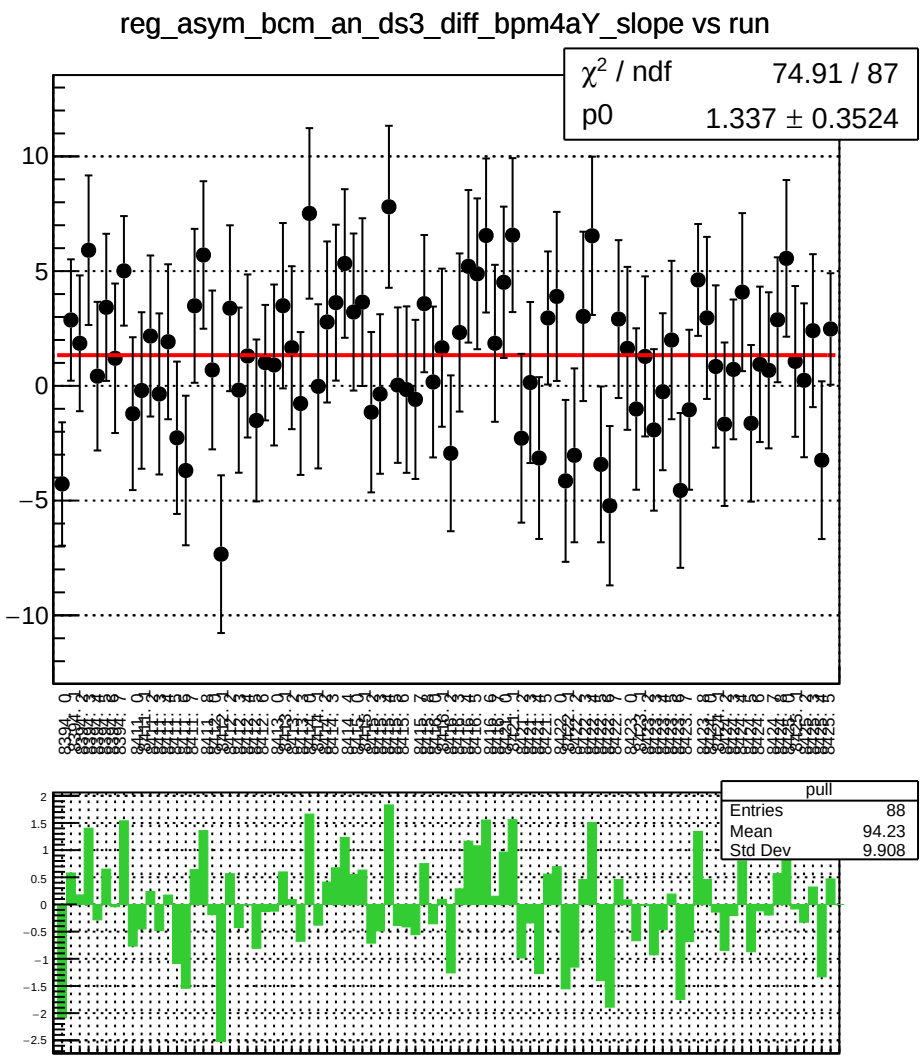

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 78.55 / 87
p0 4.356 ± 1.26
pull
Entries 88
Mean −844.5
Std Dev 0
pull1D
Entries 88
Mean −0.004281
Std Dev 0.9448

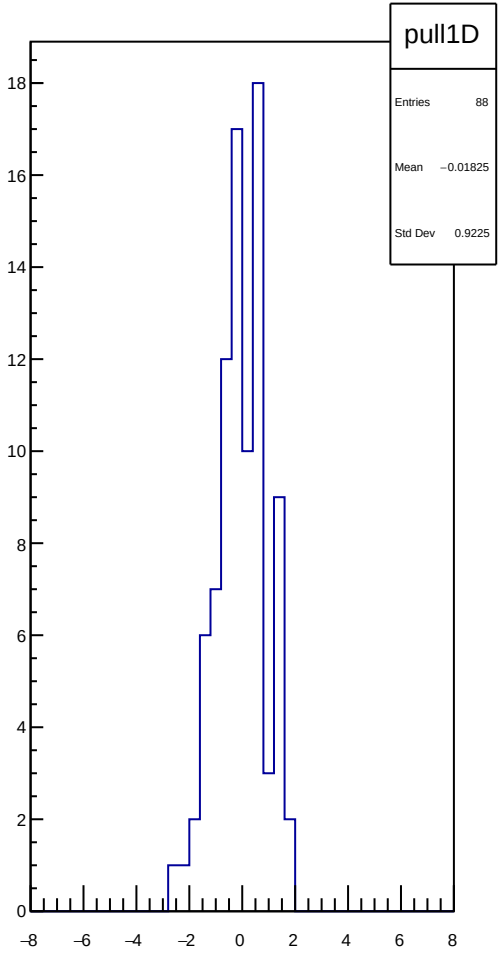

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 70.59 / 87
p0 5.173 ± 2.217
pull
Entries 88
Mean −8.236
Std Dev 0
pull1D
Entries 88
Mean −0.009587
Std Dev 0.8956

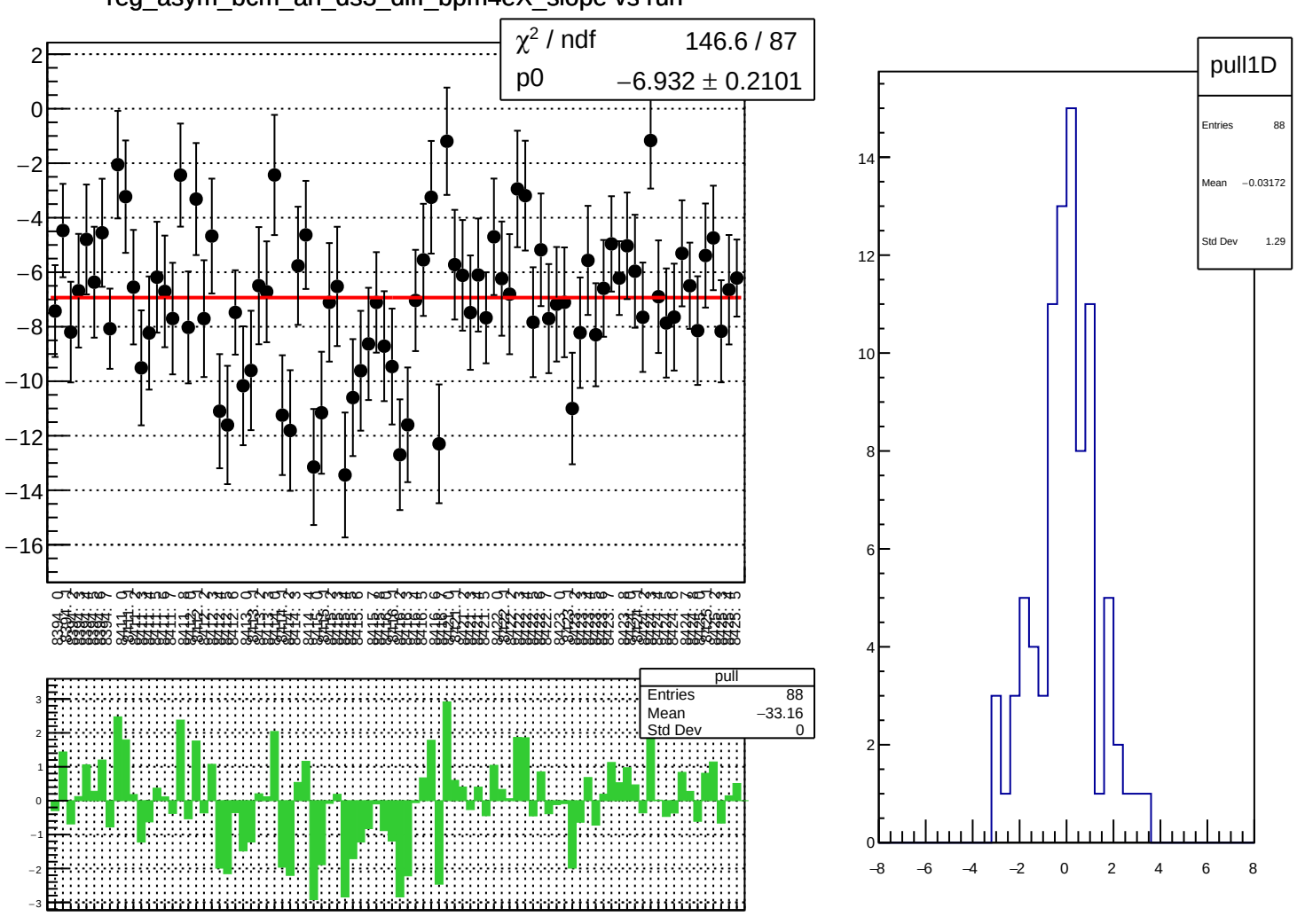

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 93.7 / 87
p0 −24.64 ± 0.1332
−20
−22
−24
−26
−28
pull
Entries 88
Mean 323.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.02128
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

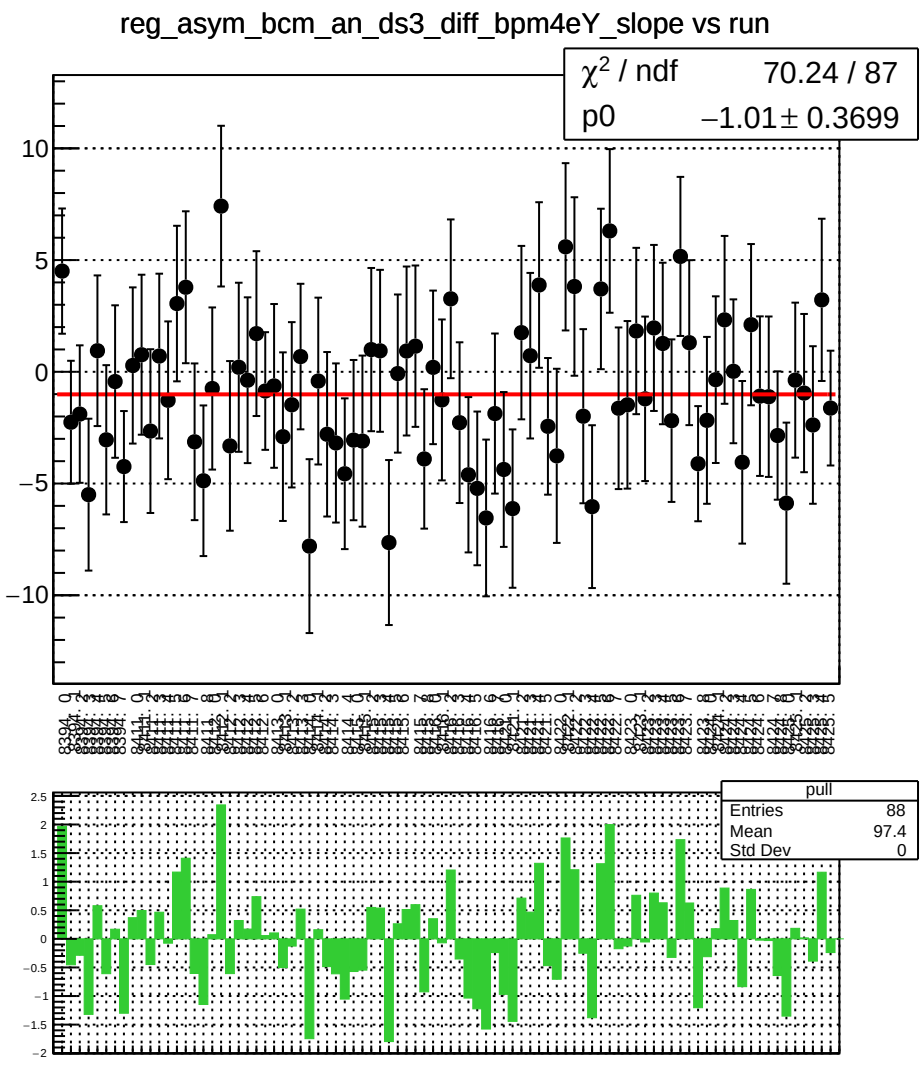

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 139.1 / 87
p0 5.614 ± 0.188
pull
Entries 88
Mean −43.48
Std Dev 0

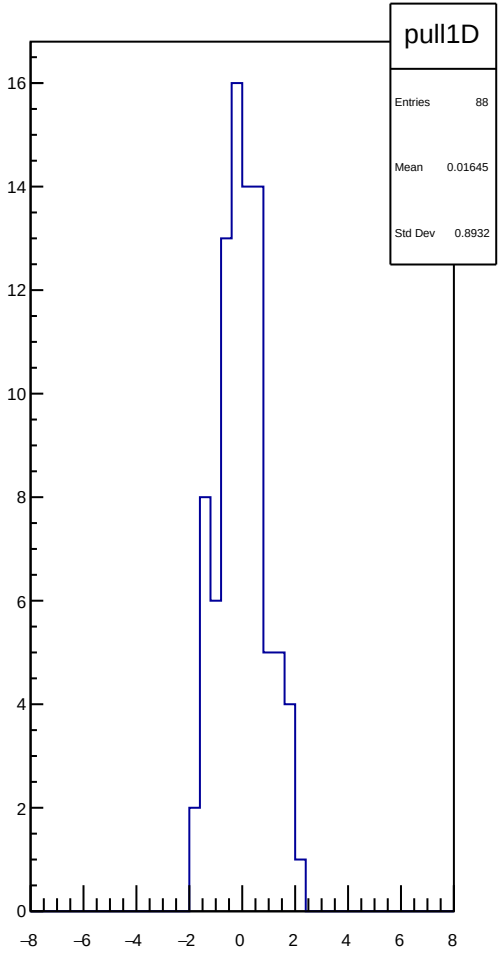

pull1D
Entries 88
Mean 0.03379
Std Dev 1.257

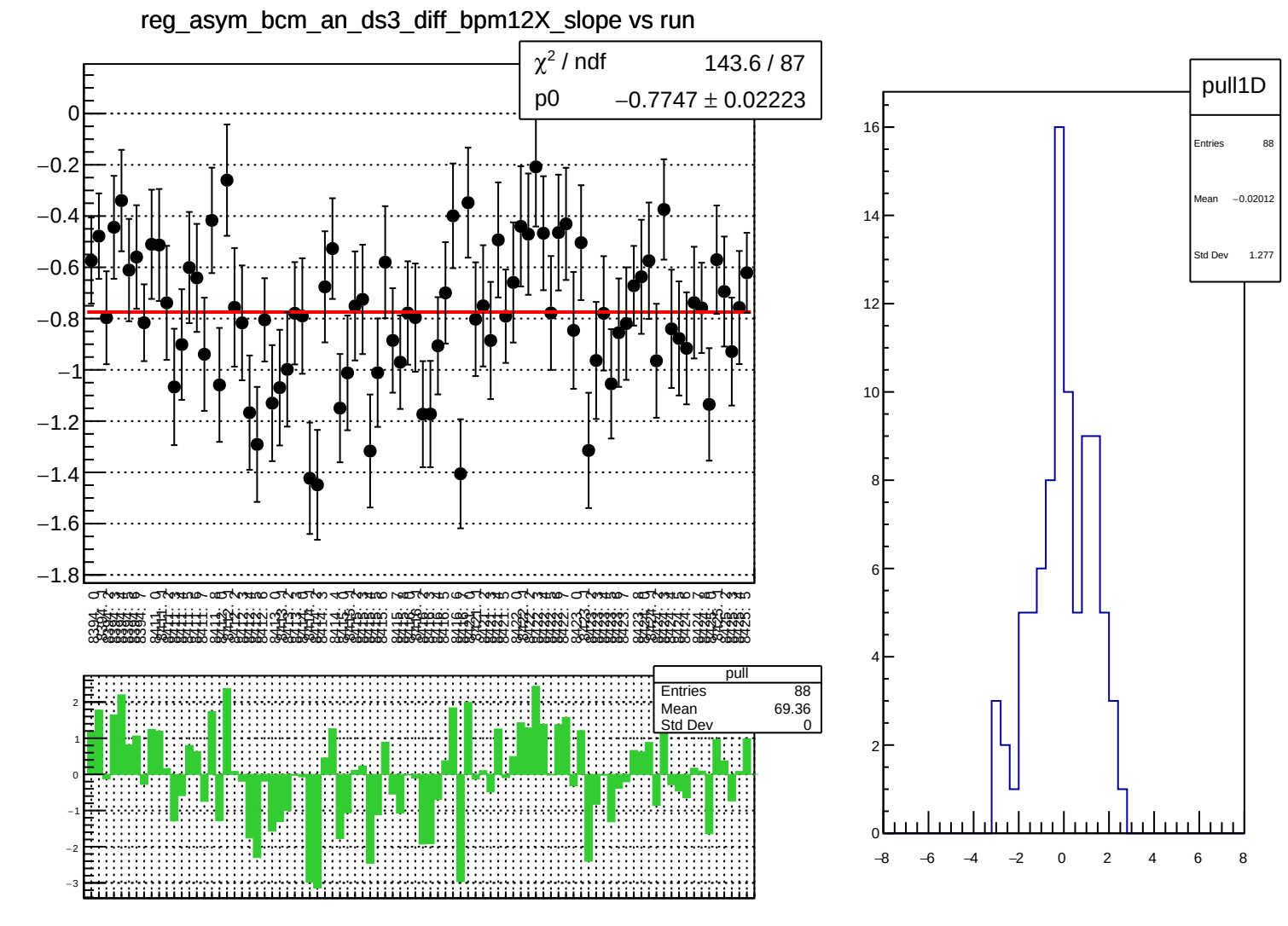

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 74.91 / 87
p0 1.337 ± 0.3524
pull
Entries 88
Mean 94.23
Std Dev 9.908

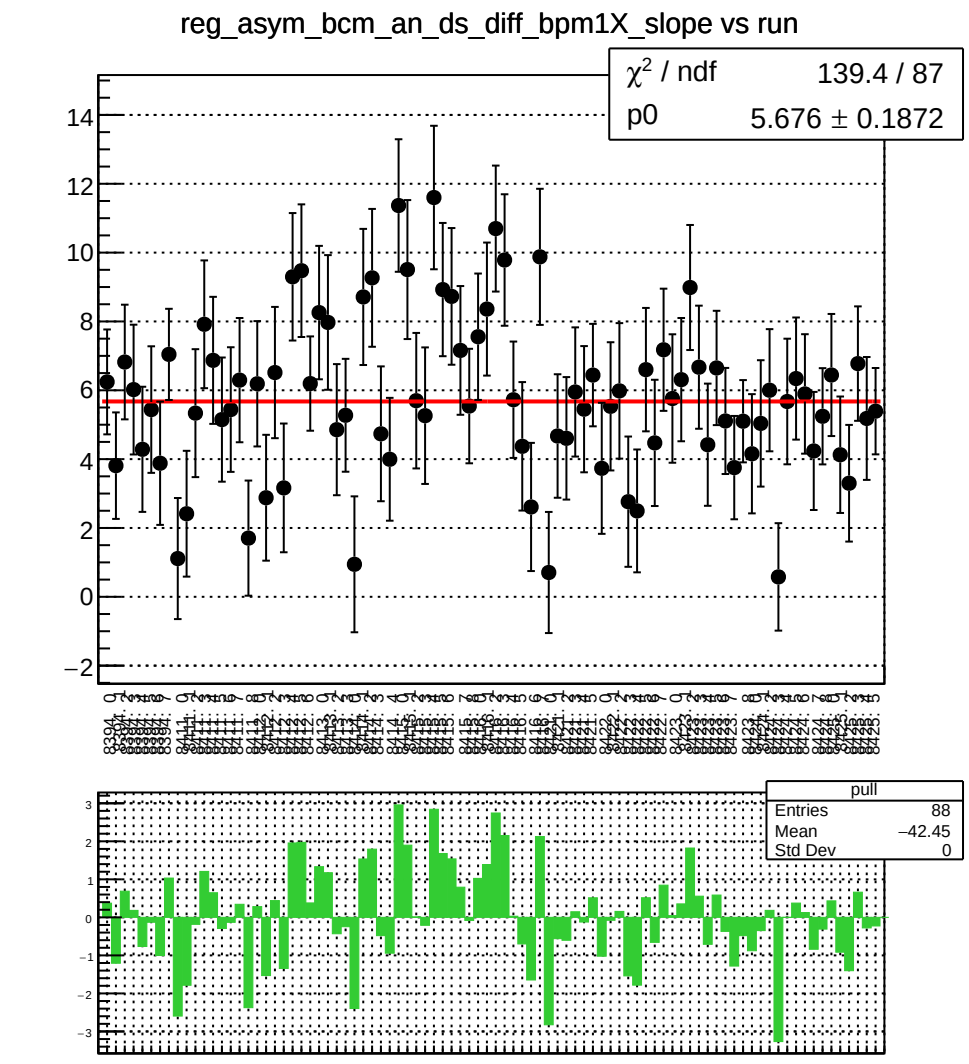

pull1D
Entries 88
Mean −0.01825
Std Dev 0.9225

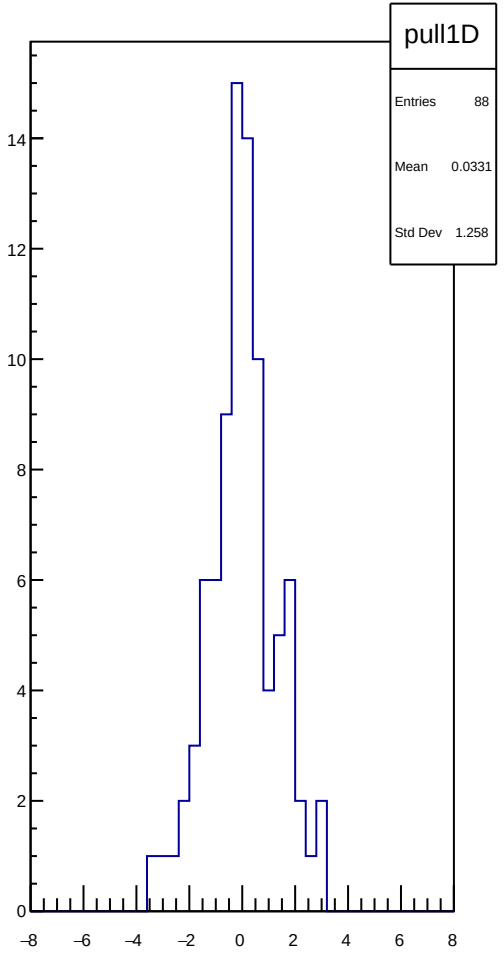

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 146.6 / 87
p0 −6.932 ± 0.2101
pull
Entries 88
Mean −33.16
Std Dev 0
pull1D
Entries 88
Mean −0.03172
Std Dev 1.29

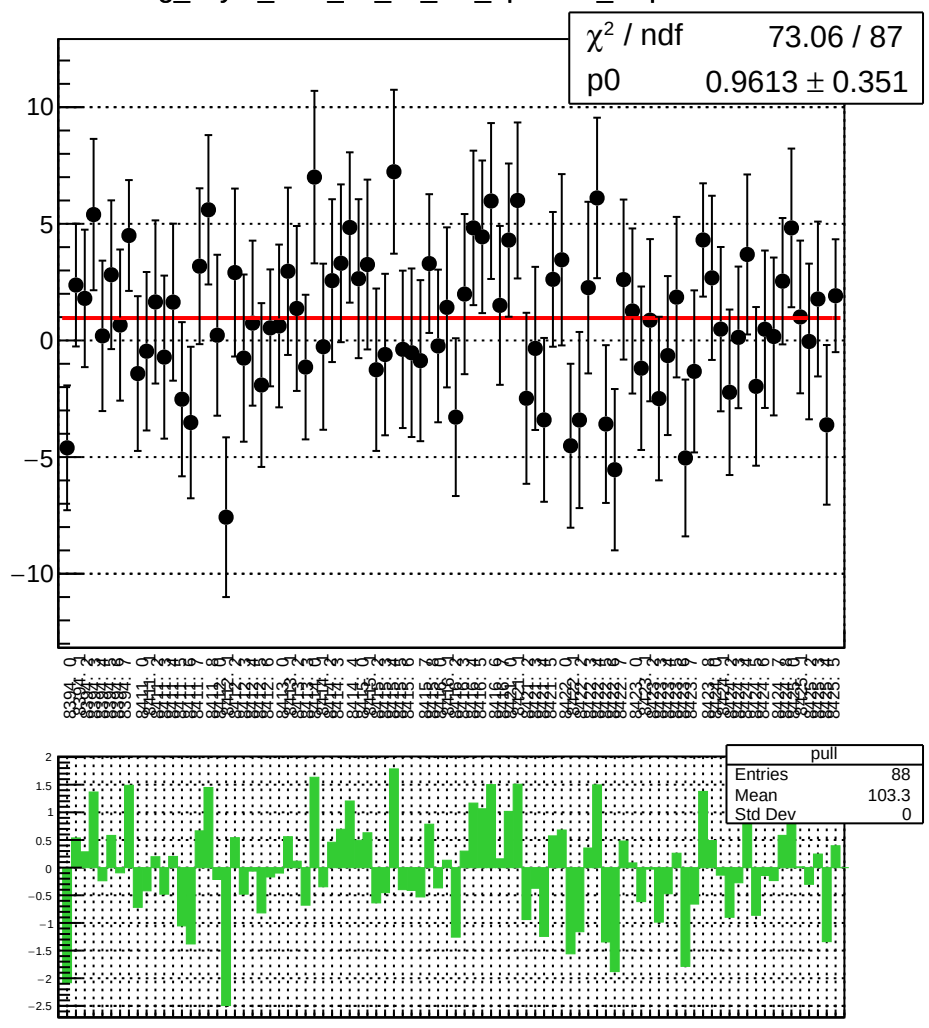

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 70.24 / 87
p0 −1.01 ± 0.3699
pull
Entries 88
Mean 97.4
Std Dev 0

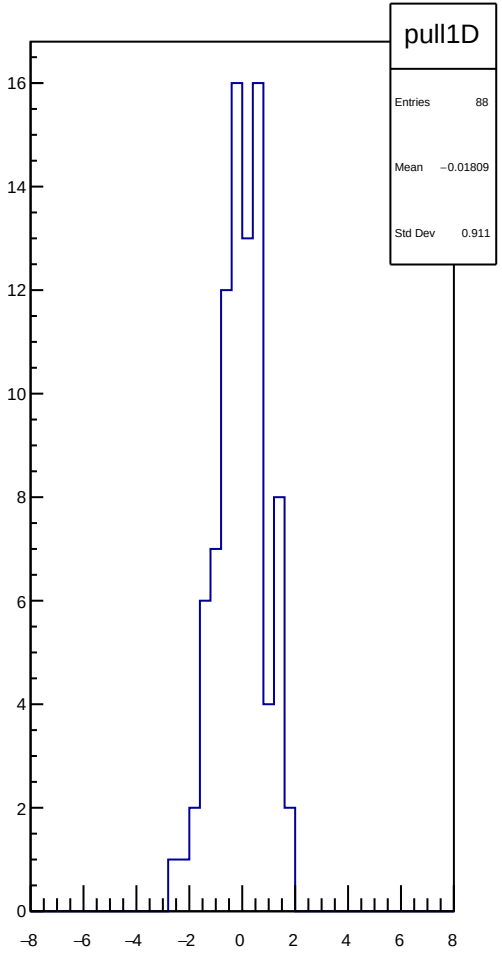

pull1D
Entries 88
Mean 0.01645
Std Dev 0.8932

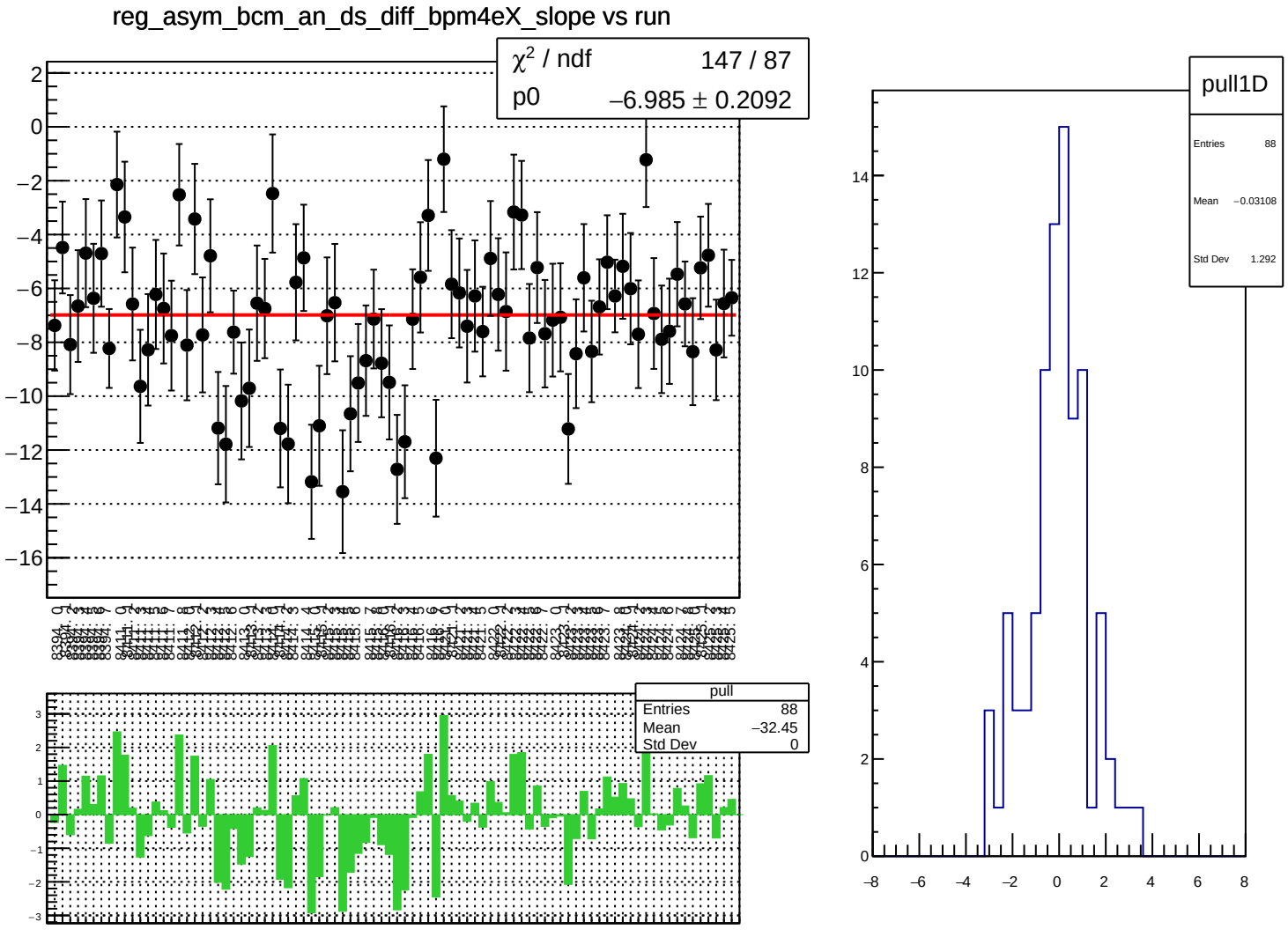

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 143.6 / 87
p0 −0.7747 ± 0.02223
pull
Entries 88
Mean 69.36
Std Dev 0
pull1D
Entries 88
Mean −0.02012
Std Dev 1.277

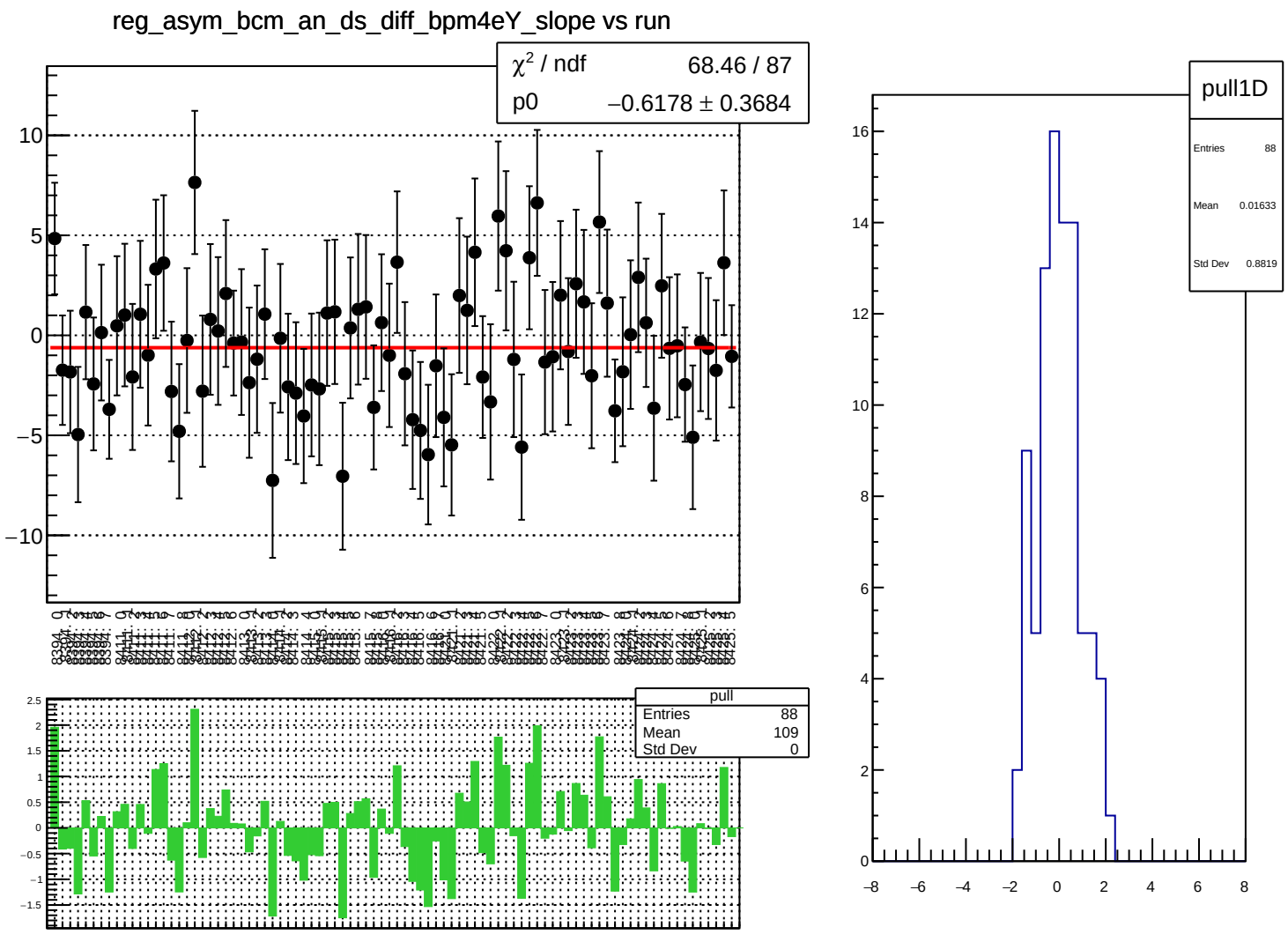

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 139.4 / 87
p0 5.676 ± 0.1872
pull
Entries 88
Mean −42.45
Std Dev 0

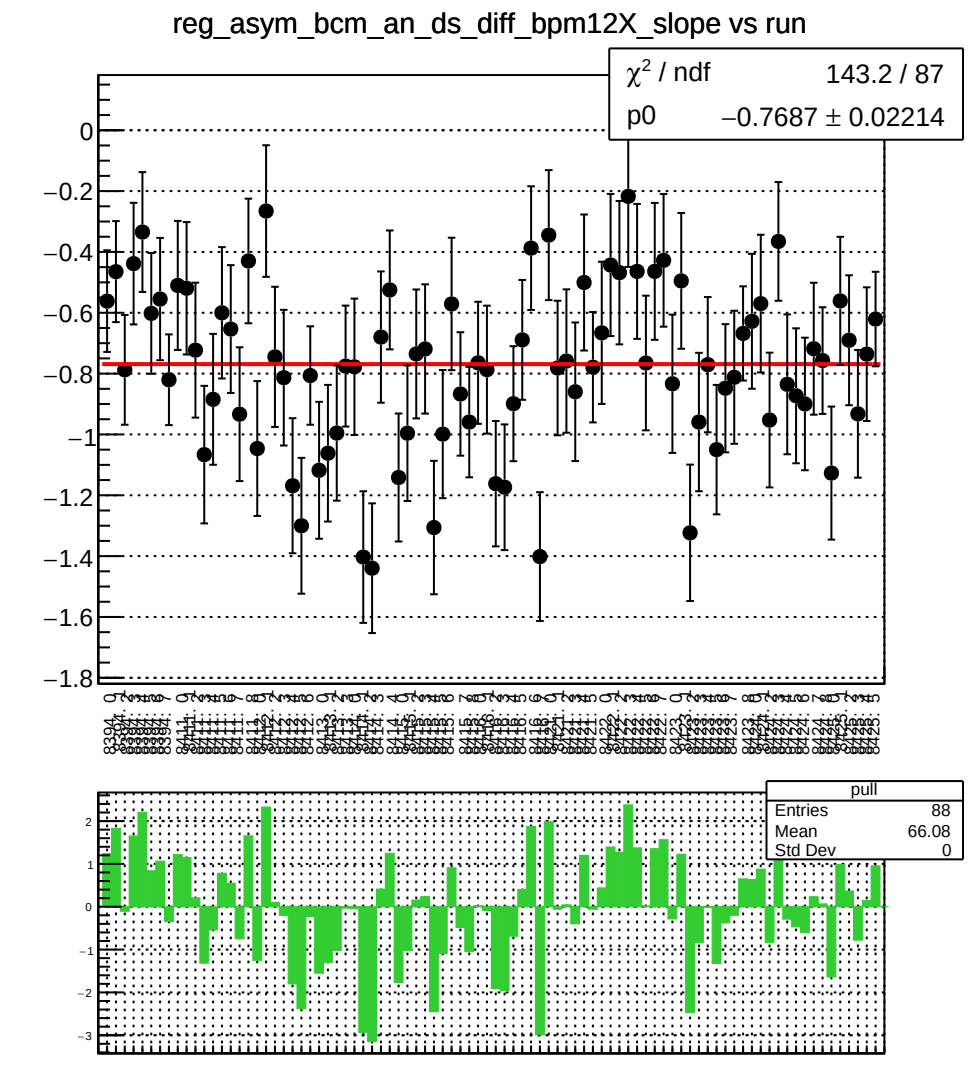

pull1D
Entries 88
Mean 0.0331
Std Dev 1.258

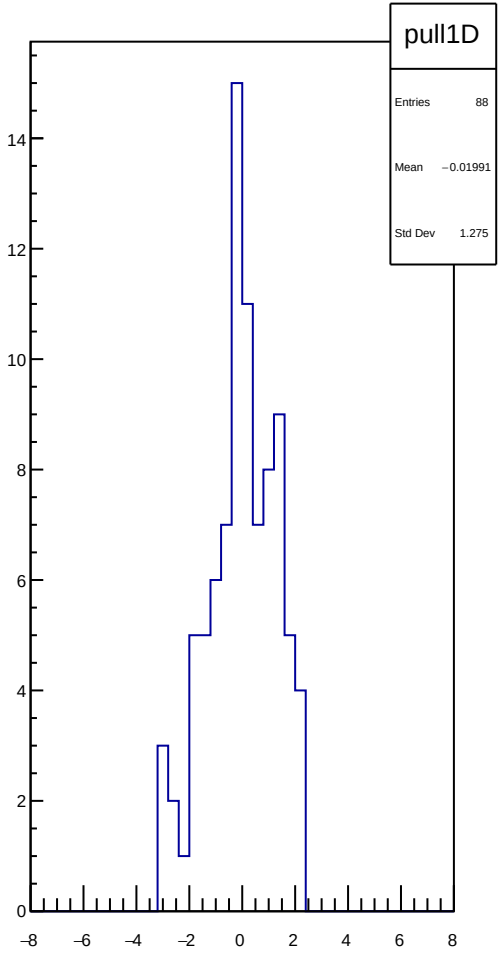

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 73.06 / 87
p0 0.9613 ± 0.351
pull
Entries 88
Mean 103.3
Std Dev 0

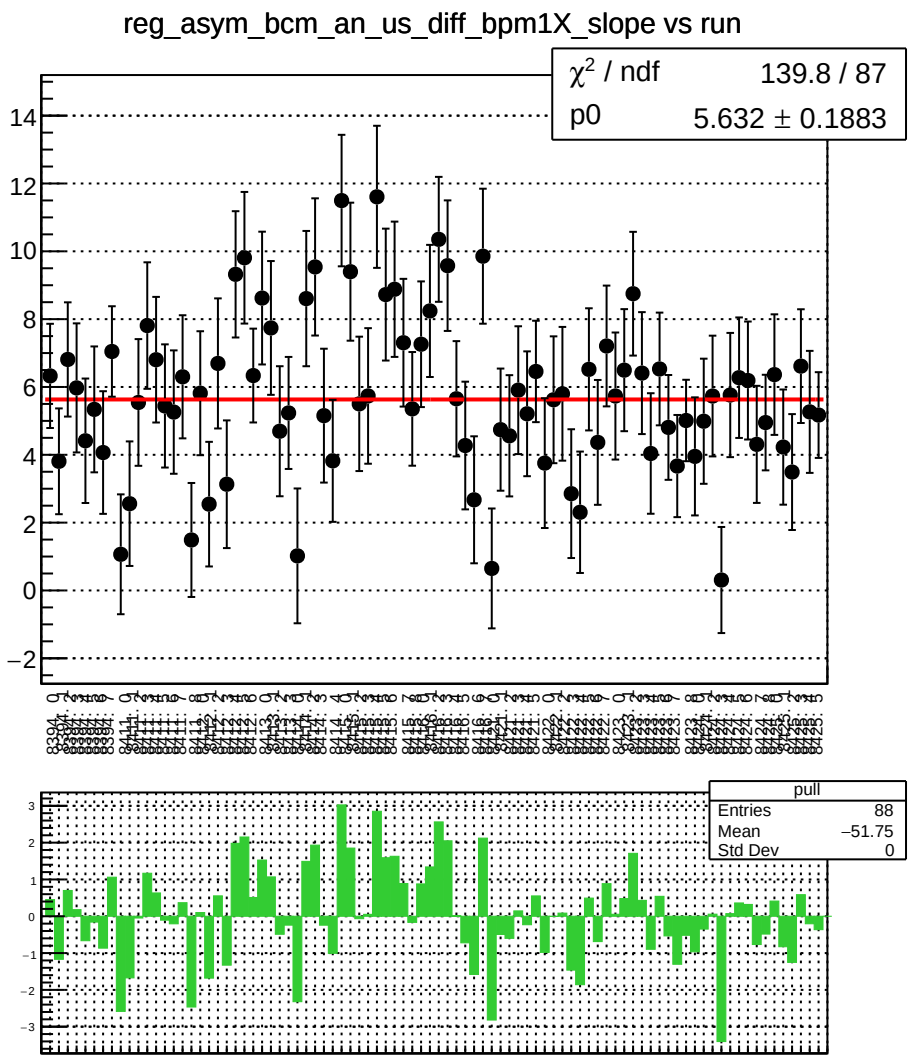

pull1D
Entries 88
Mean −0.01809
Std Dev 0.911

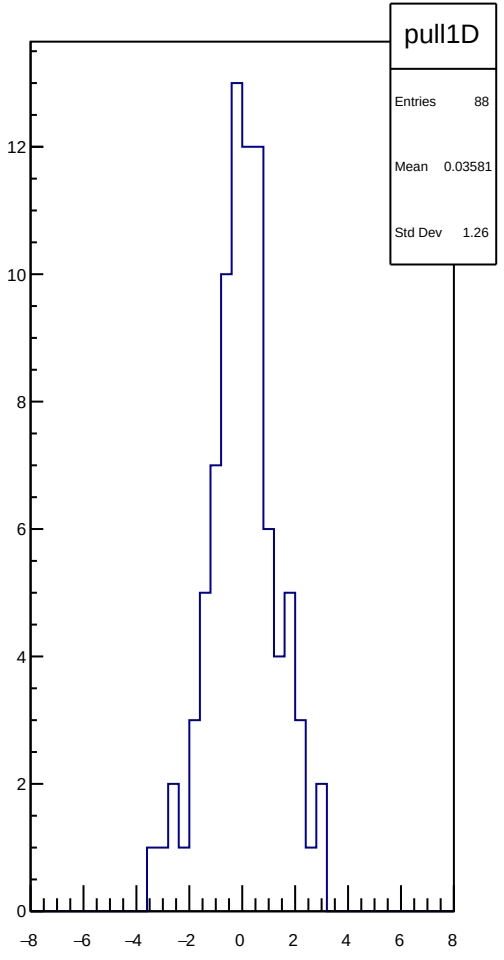

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 147 / 87
p0 −6.985 ± 0.2092
pull
Entries 88
Mean −32.45
Std Dev 0
pull1D
Entries 88
Mean −0.03108
Std Dev 1.292

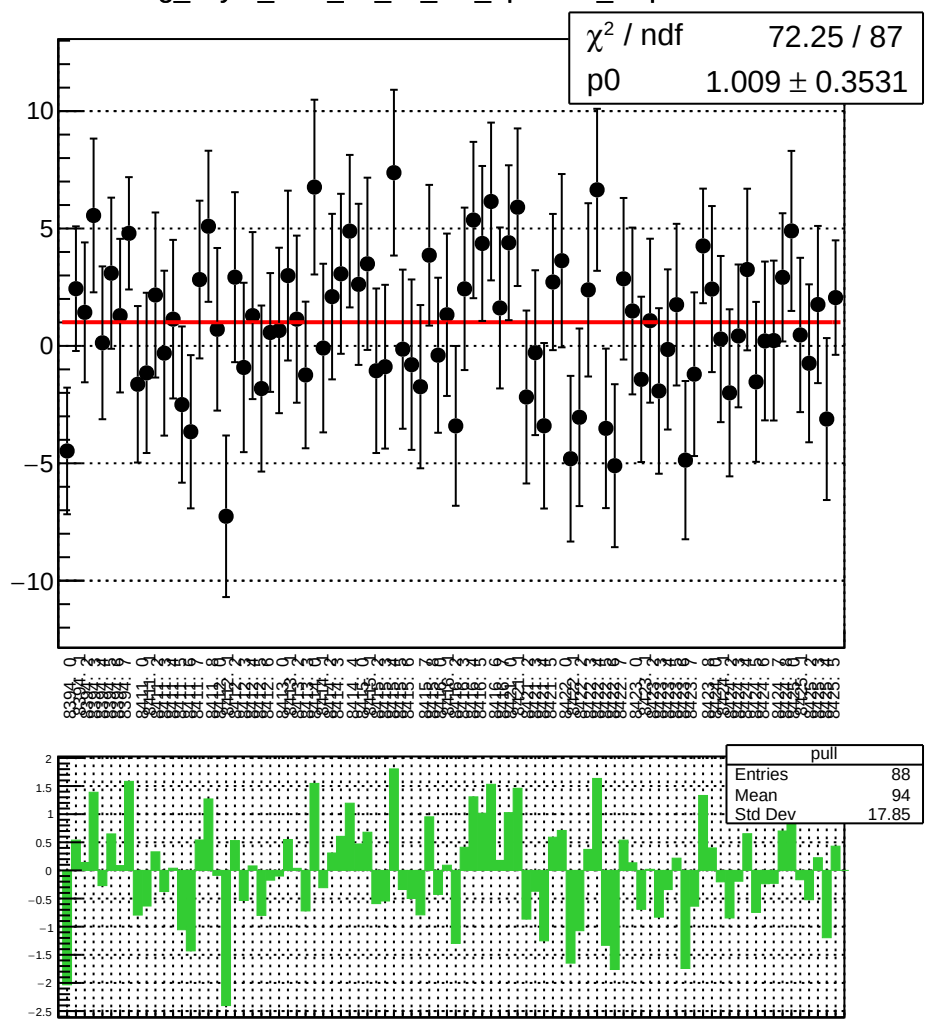

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 68.46 / 87
p0 −0.6178 ± 0.3684
pull
Entries 88
Mean 109
Std Dev 0
pull1D
Entries 88
Mean 0.01633
Std Dev 0.8819

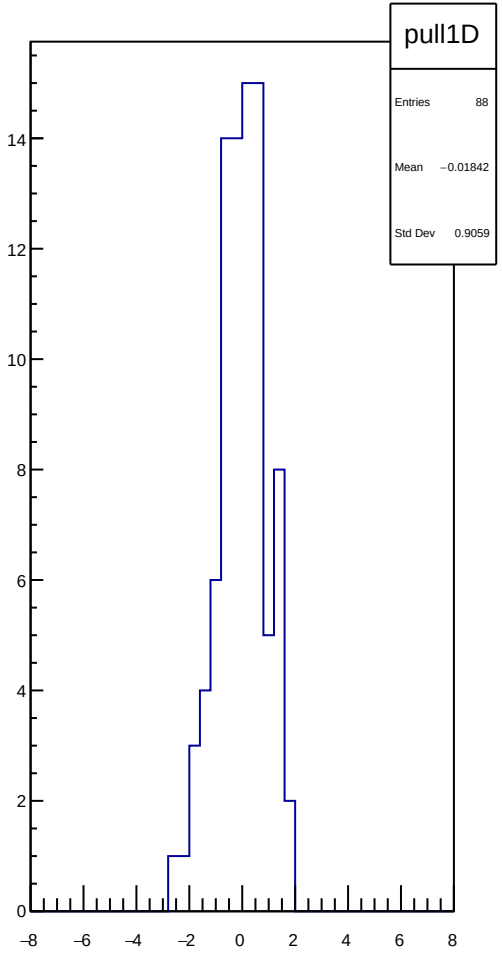

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 143.2 / 87
p0 −0.7687 ± 0.02214
pull
Entries 88
Mean 66.08
Std Dev 0

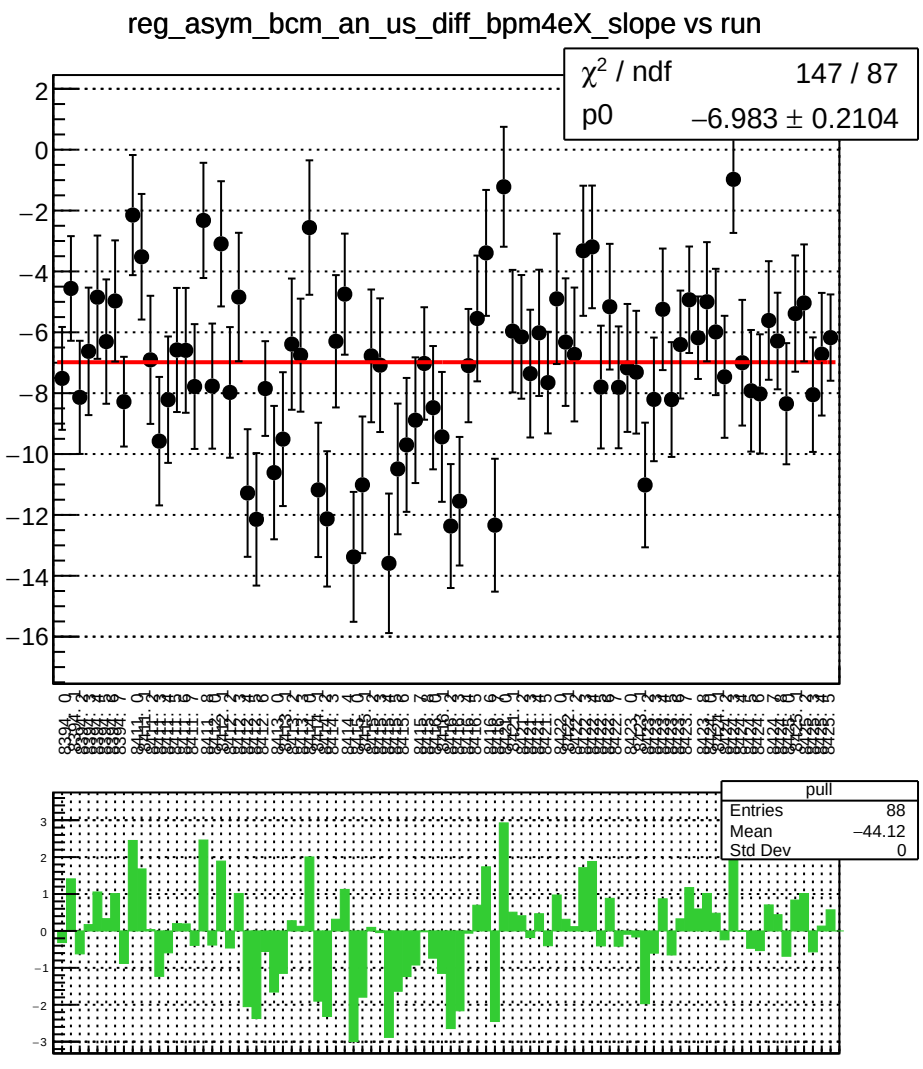

pull1D
Entries 88
Mean −0.01991
Std Dev 1.275

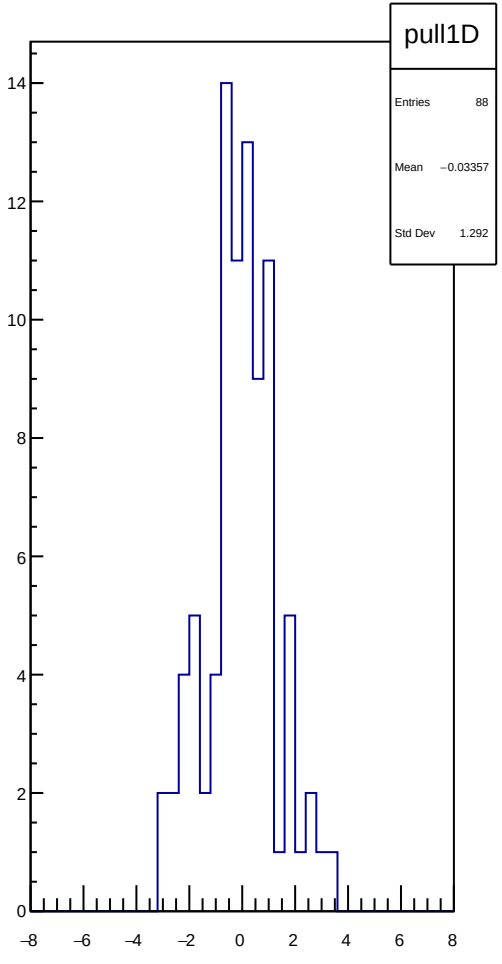

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 139.8 / 87
p0 5.632 ± 0.1883
pull
Entries 88
Mean −51.75
Std Dev 0

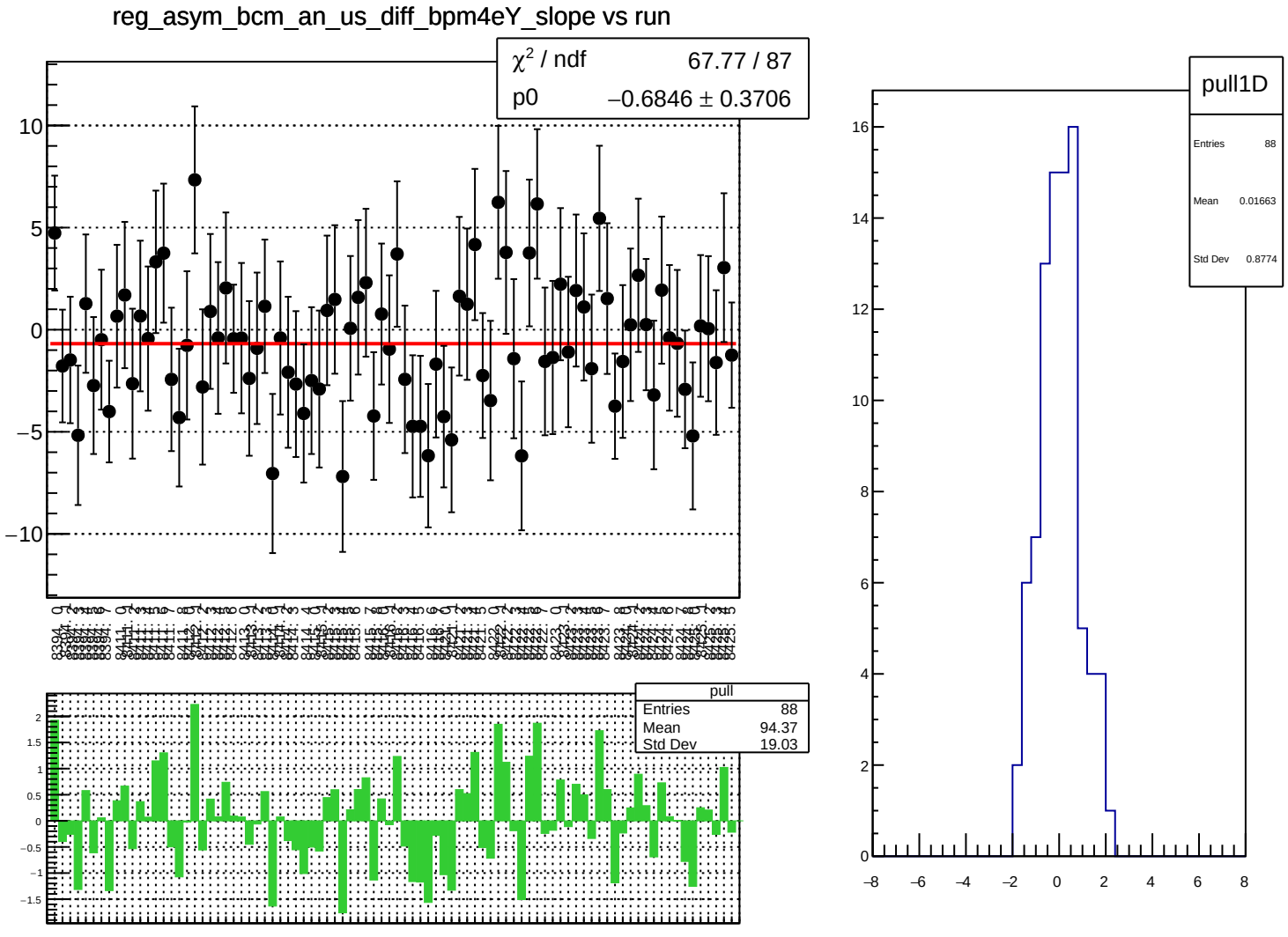

pull1D
Entries 88
Mean 0.03581
Std Dev 1.26

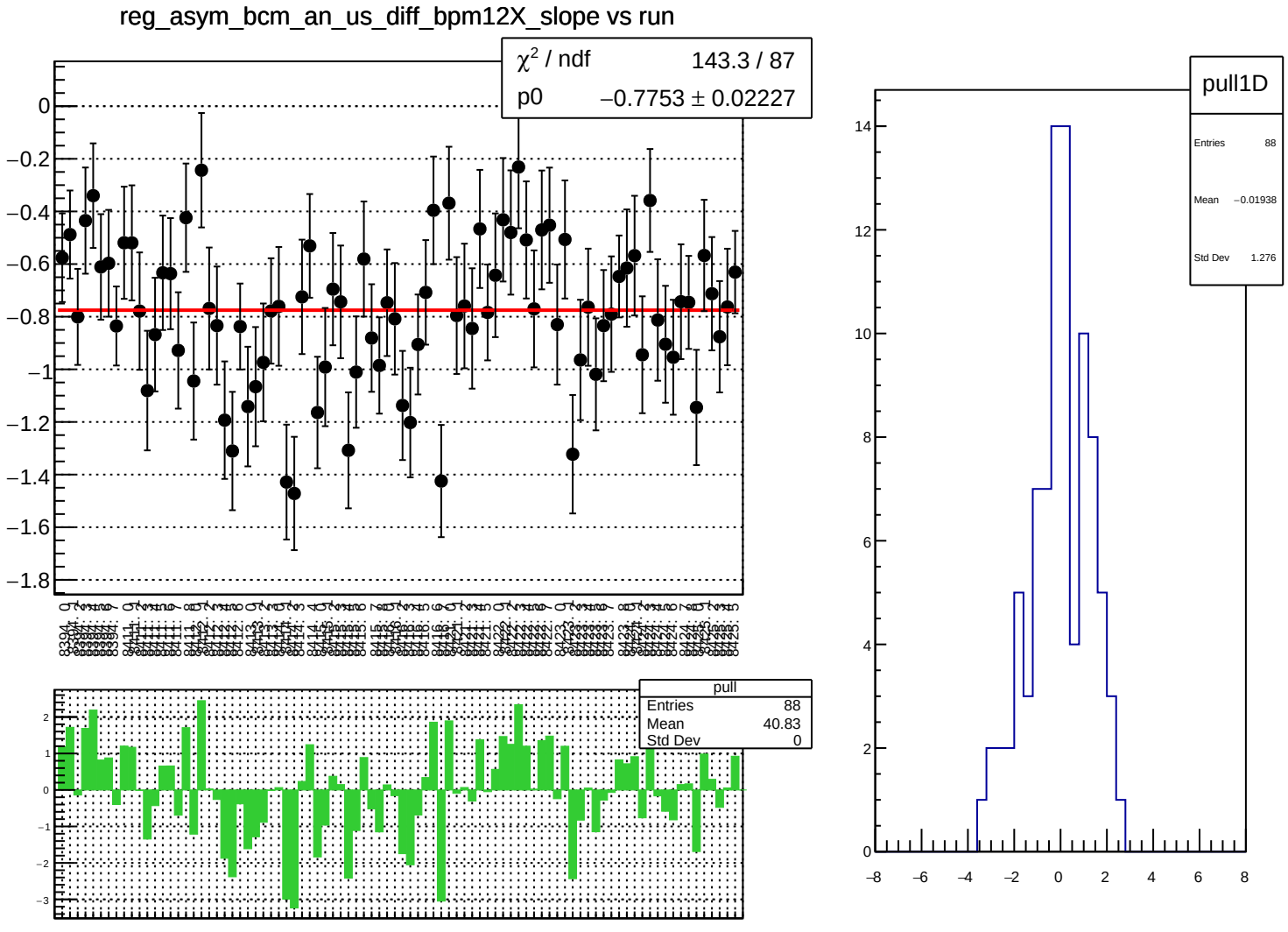

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 72.25 / 87
p0 1.009 ± 0.3531
pull
Entries 88
Mean 94
Std Dev 17.85

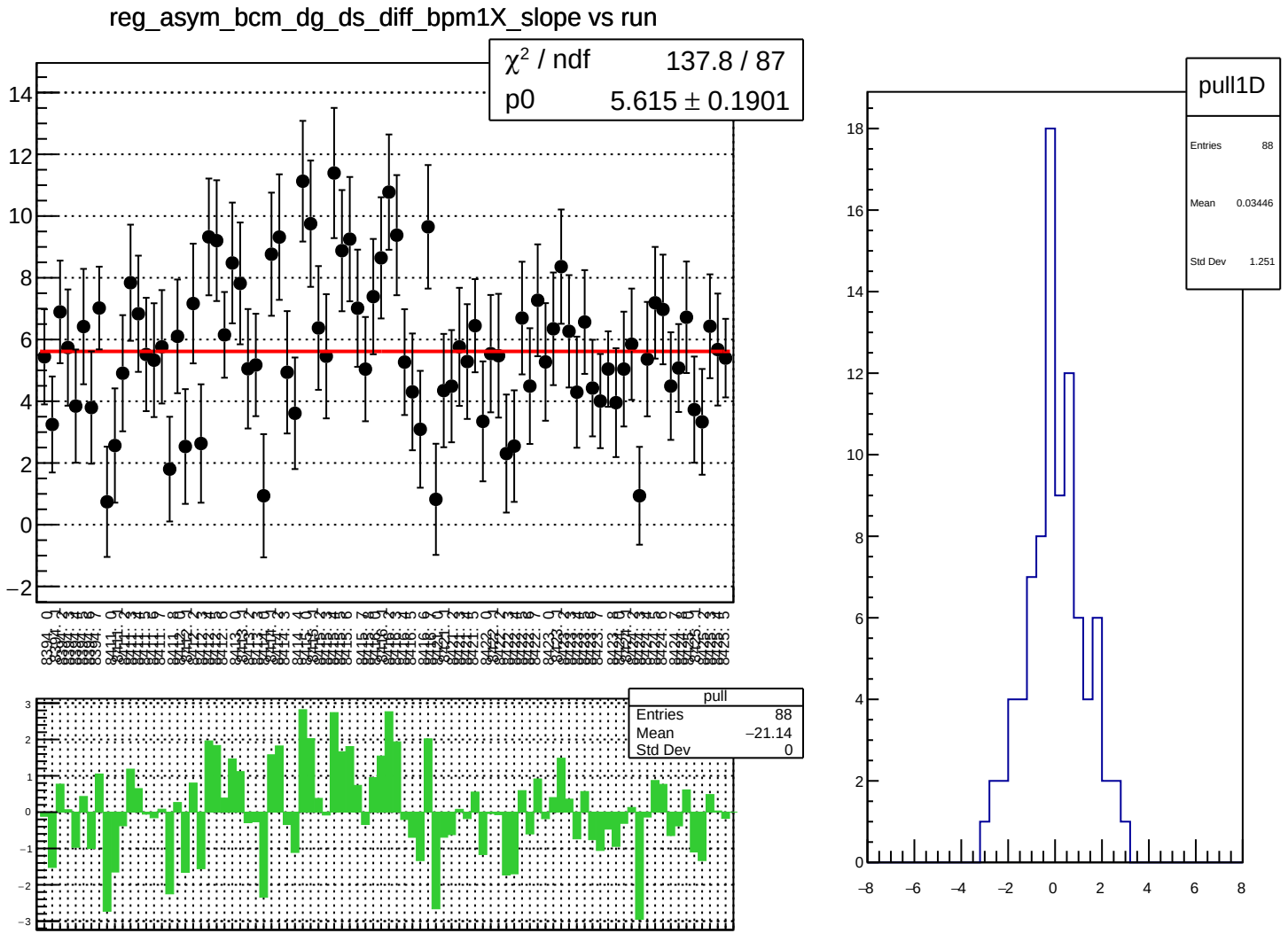

pull1D
Entries 88
Mean −0.01842
Std Dev 0.9059

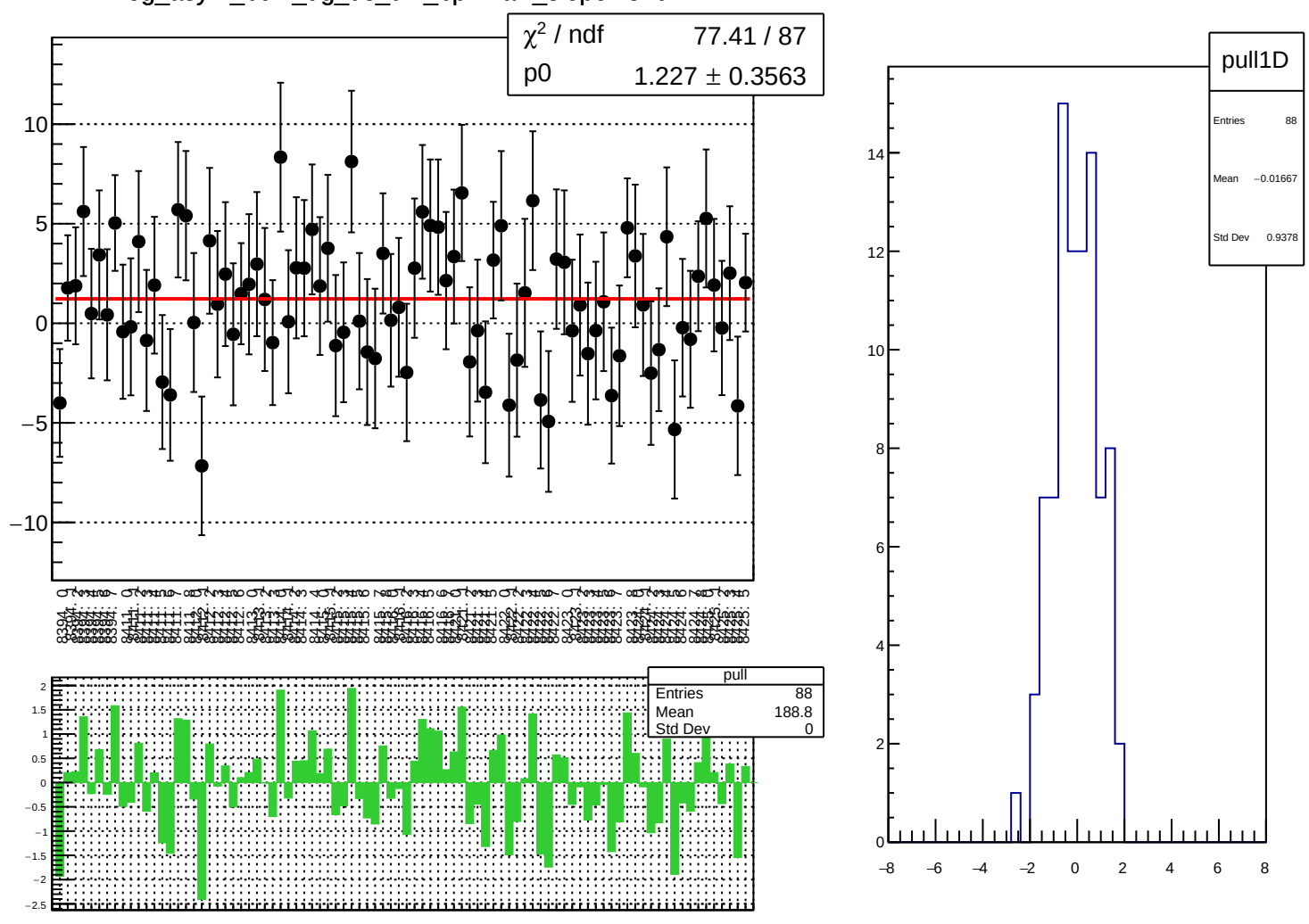

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 147 / 87
p0 −6.983 ± 0.2104
pull
Entries 88
Mean −44.12
Std Dev 0

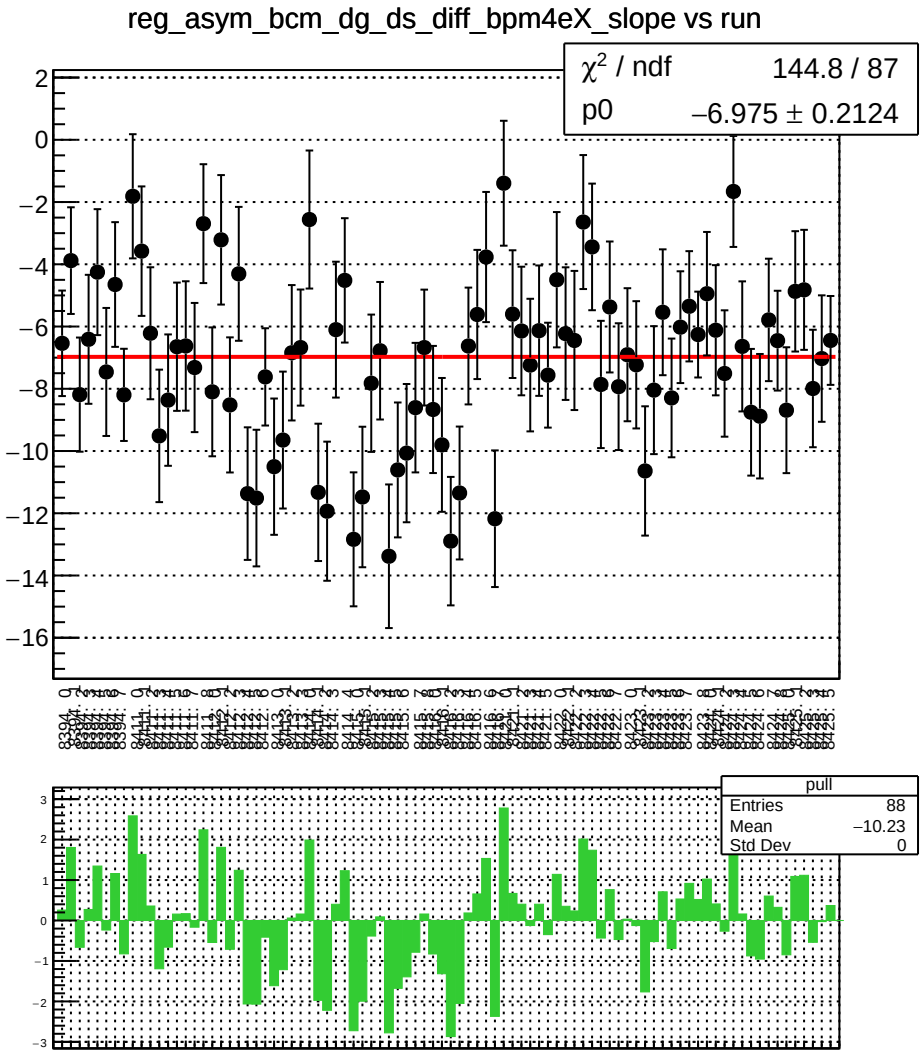

pull1D
Entries 88
Mean −0.03357
Std Dev 1.292

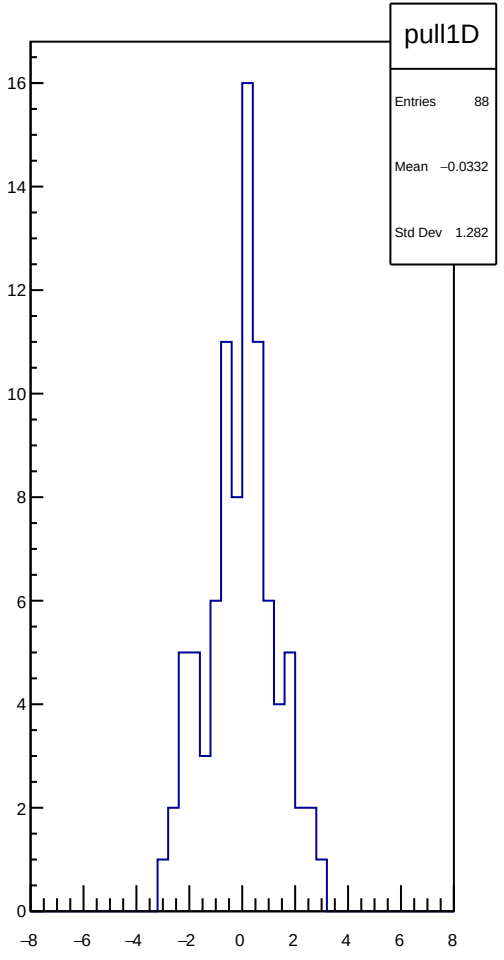

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 67.77 / 87
p0 −0.6846 ± 0.3706
pull
Entries 88
Mean 94.37
Std Dev 19.03
pull1D
Entries 88
Mean 0.01663
Std Dev 0.8774

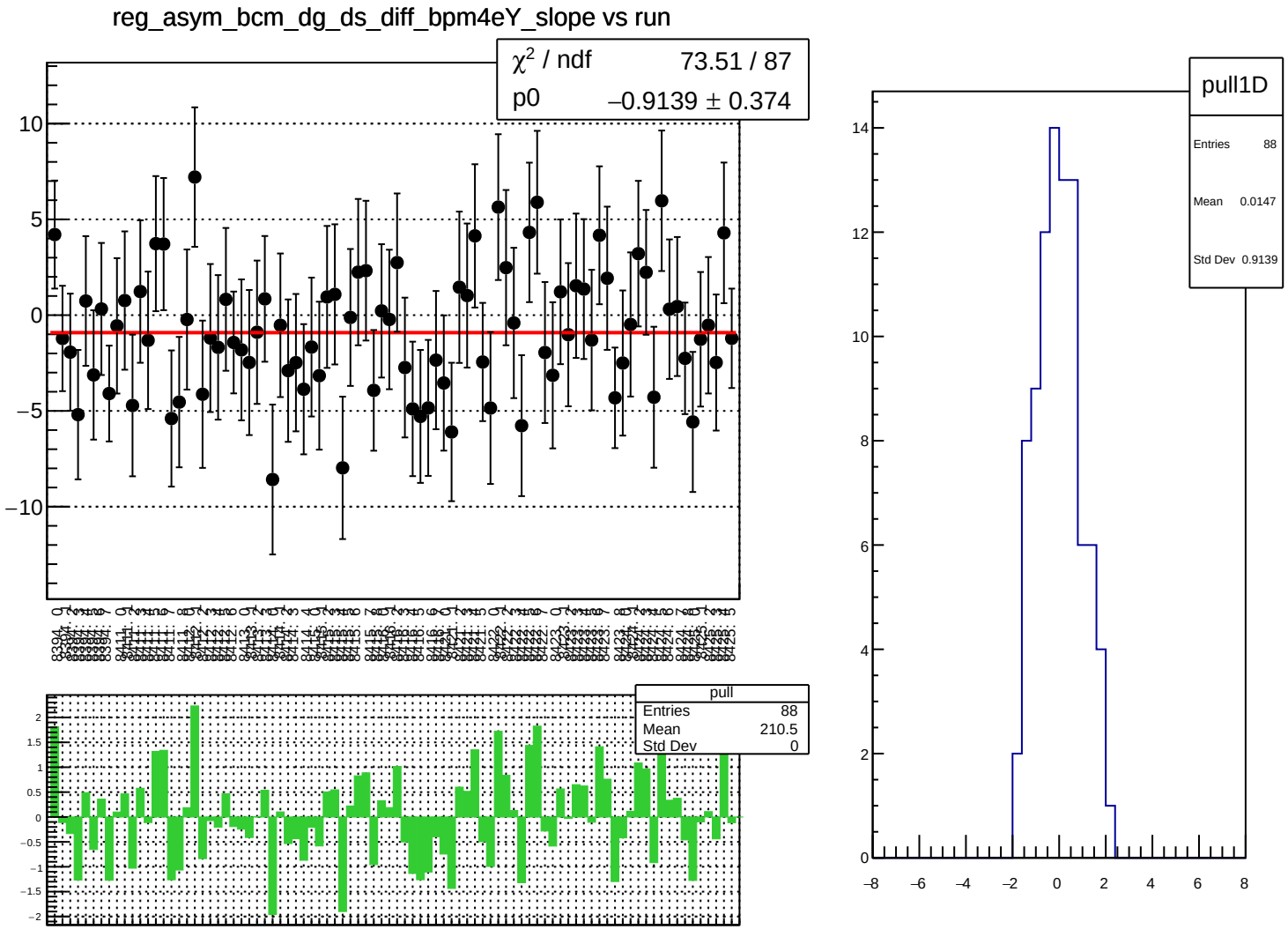

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 143.3 / 87
p0 −0.7753 ± 0.02227
pull
Entries 88
Mean 40.83
Std Dev 0
pull1D
Entries 88
Mean −0.01938
Std Dev 1.276

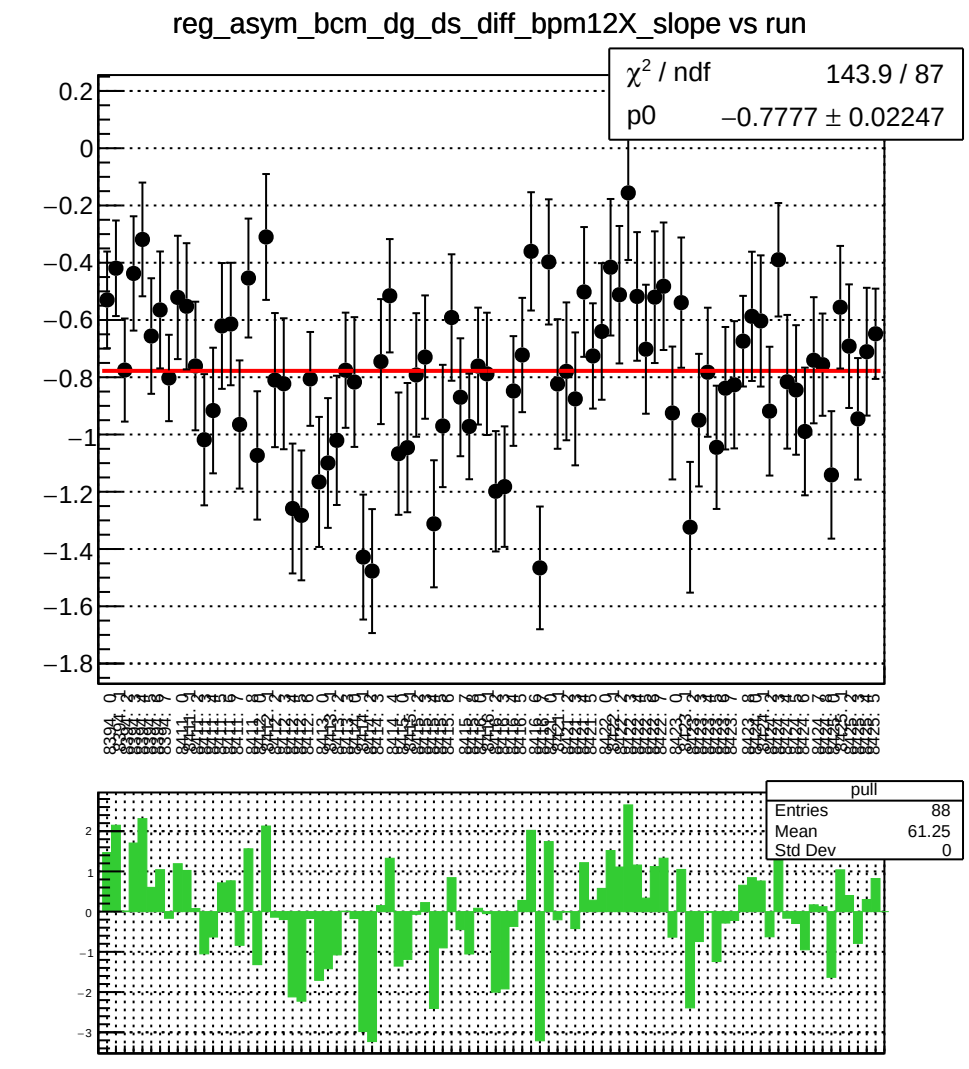

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 137.8 / 87
p0 5.615 ± 0.1901
pull
Entries 88
Mean −21.14
Std Dev 0
pull1D
Entries 88
Mean 0.03446
Std Dev 1.251

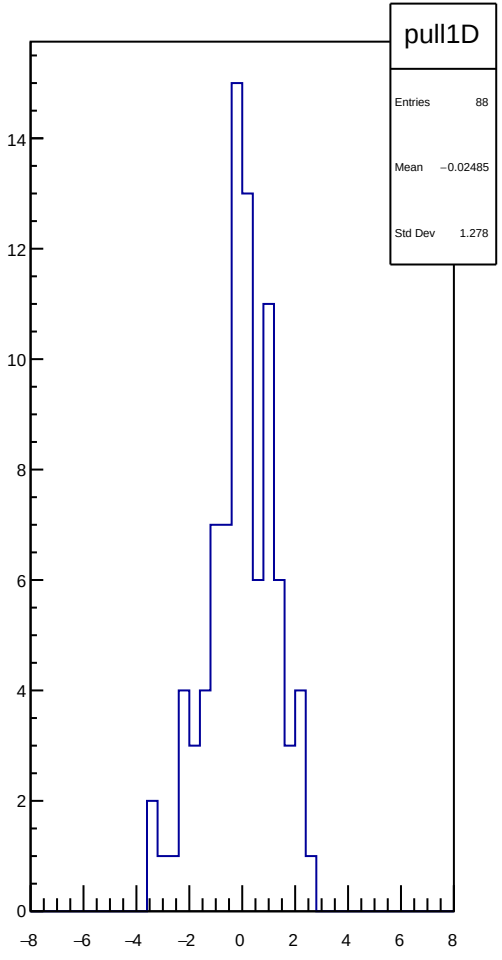

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 77.41 / 87
p0 1.227 ± 0.3563
pull
Entries 88
Mean 188.8
Std Dev 0
pull1D
Entries 88
Mean −0.01667
Std Dev 0.9378

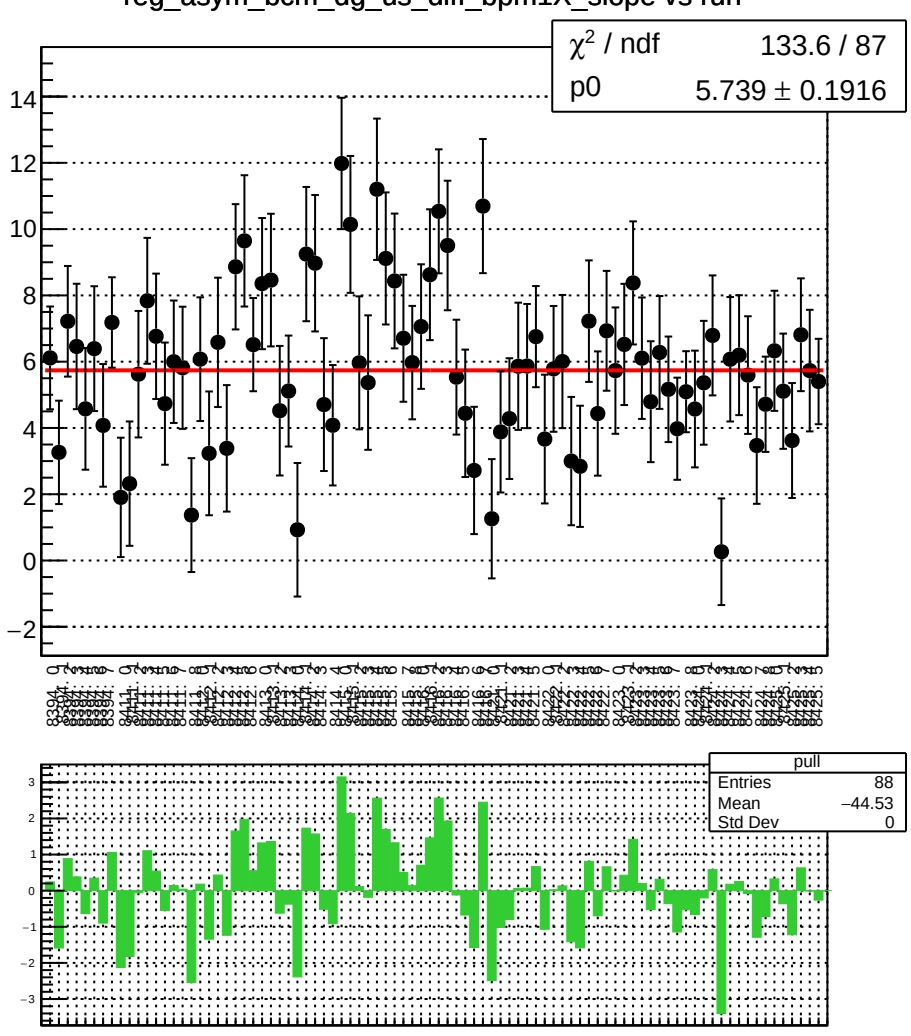

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 144.8 / 87
p0 −6.975 ± 0.2124
pull
Entries 88
Mean −10.23
Std Dev 0

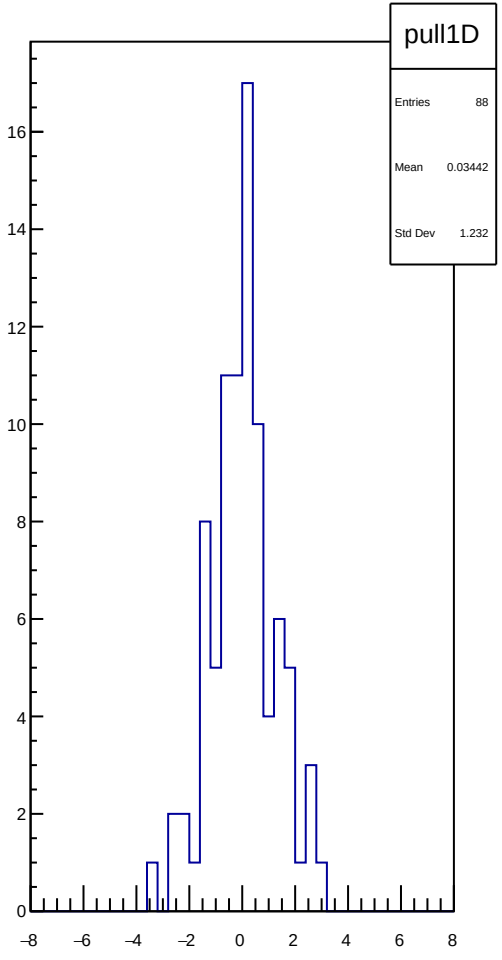

pull1D
Entries 88
Mean −0.0332
Std Dev 1.282

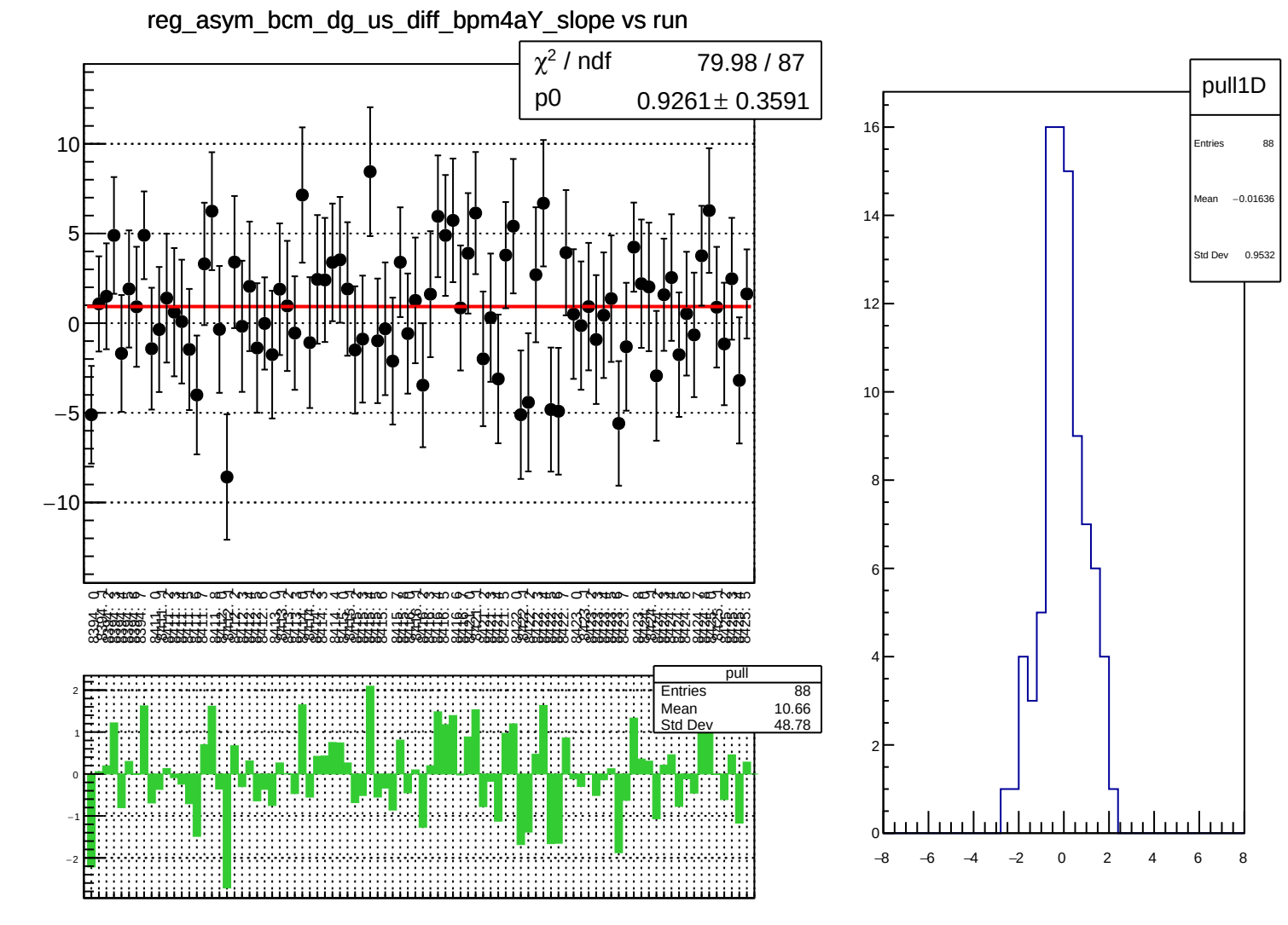

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 73.51 / 87
p0 −0.9139 ± 0.374
pull
Entries 88
Mean 210.5
Std Dev 0
pull1D
Entries 88
Mean 0.0147
Std Dev 0.9139

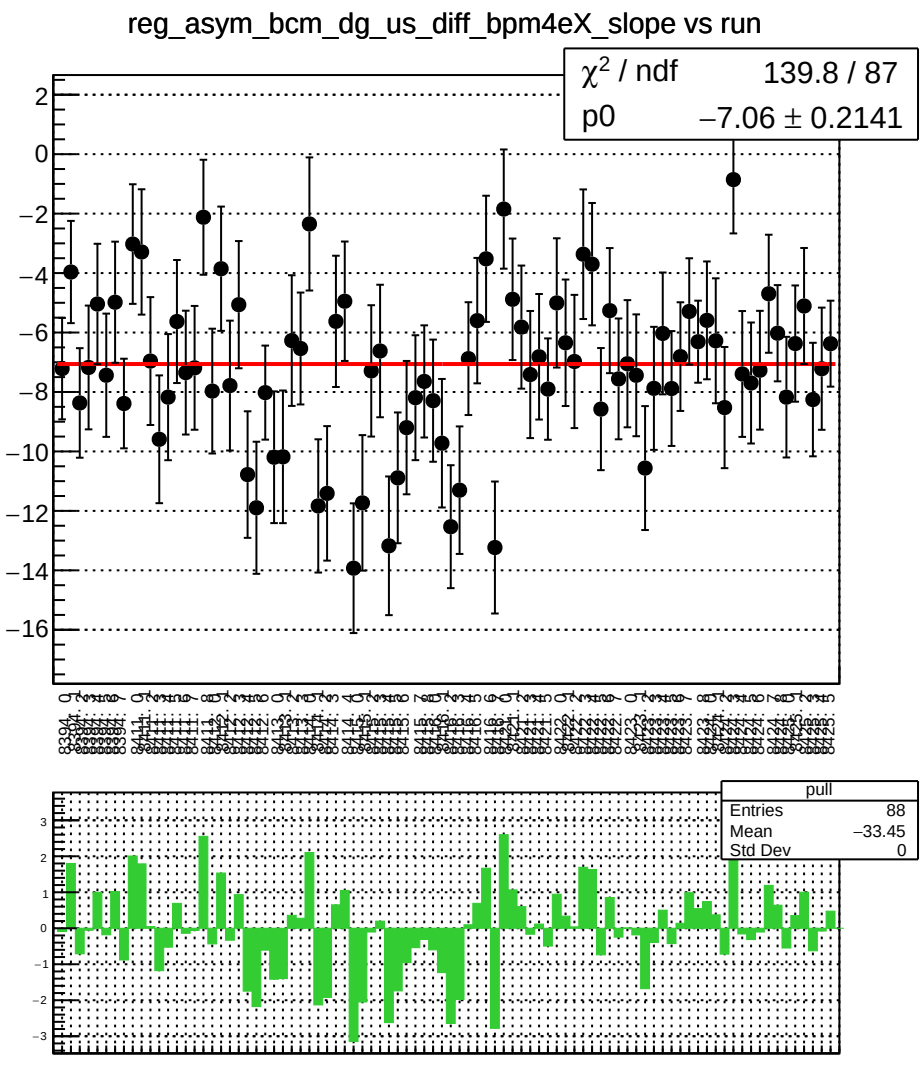

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 143.9 / 87
p0 −0.7777 ± 0.02247
pull
Entries 88
Mean 61.25
Std Dev 0

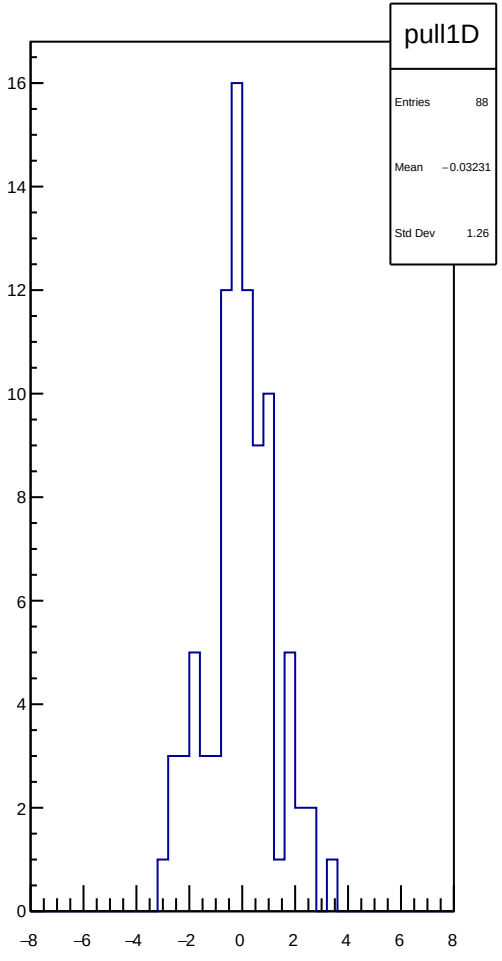

pull1D
Entries 88
Mean −0.02485
Std Dev 1.278

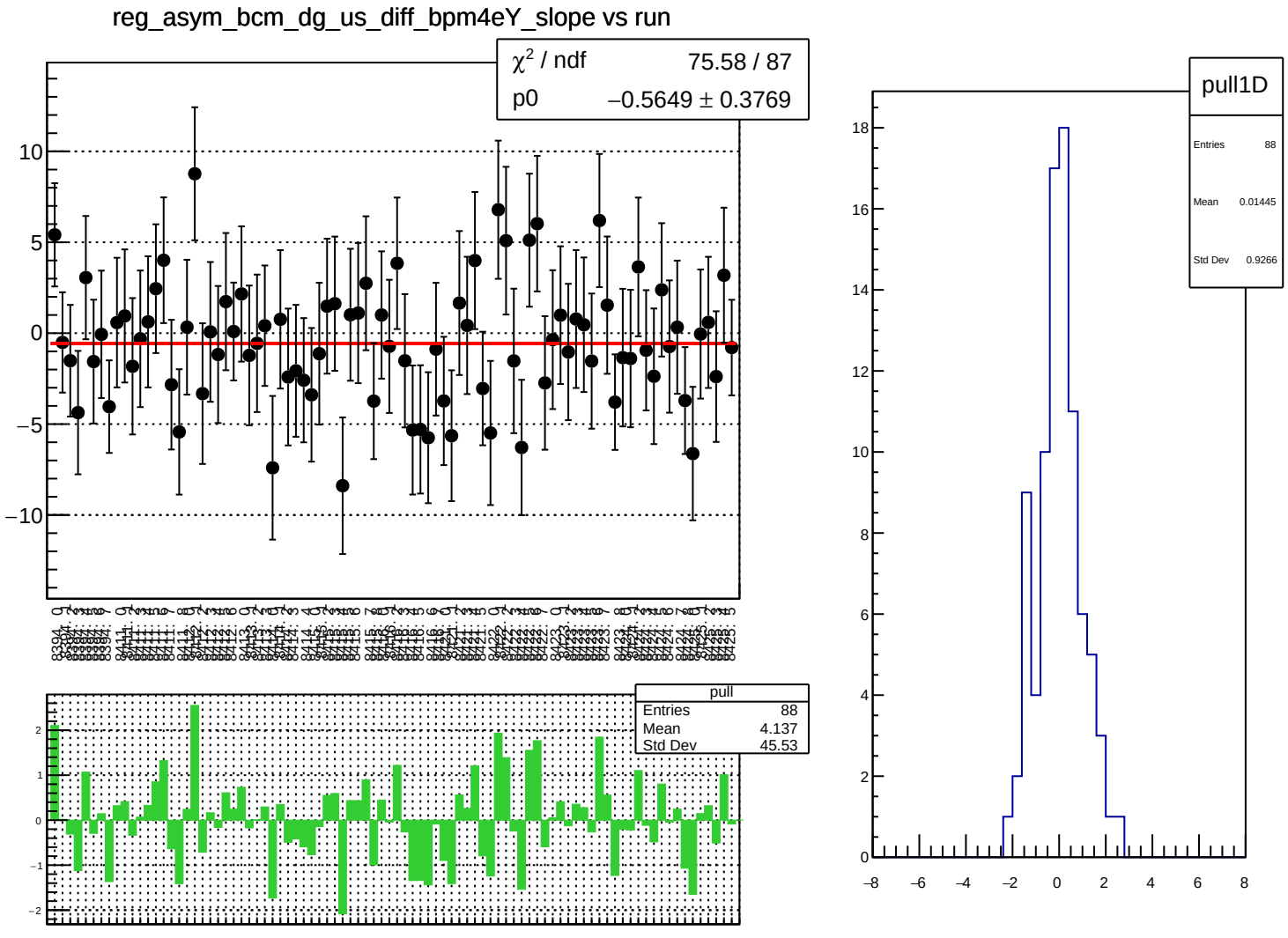

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 133.6 / 87
p0 5.739 ± 0.1916
pull
Entries 88
Mean −44.53
Std Dev 0

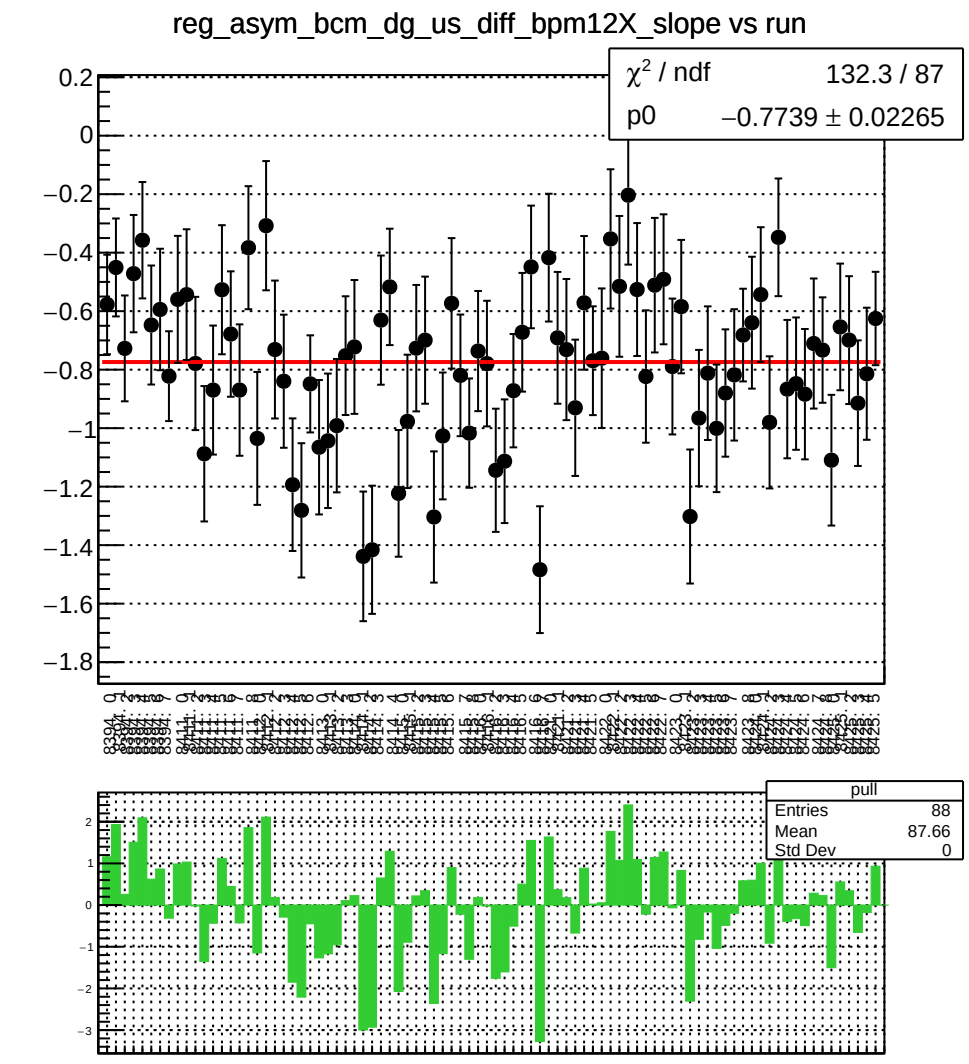

pull1D
Entries 88
Mean 0.03442
Std Dev 1.232

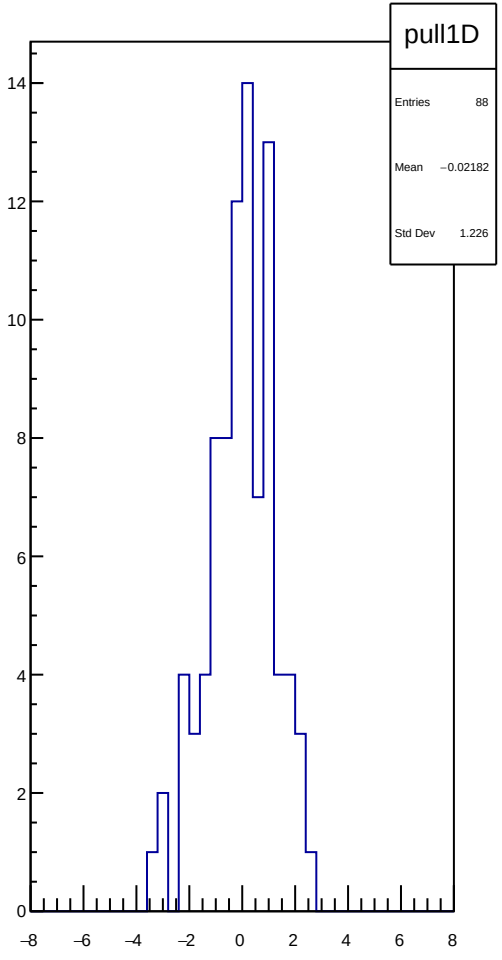

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 79.98 / 87
p0 0.9261 ± 0.3591
pull
Entries 88
Mean 10.66
Std Dev 48.78
pull1D
Entries 88
Mean −0.01636
Std Dev 0.9532

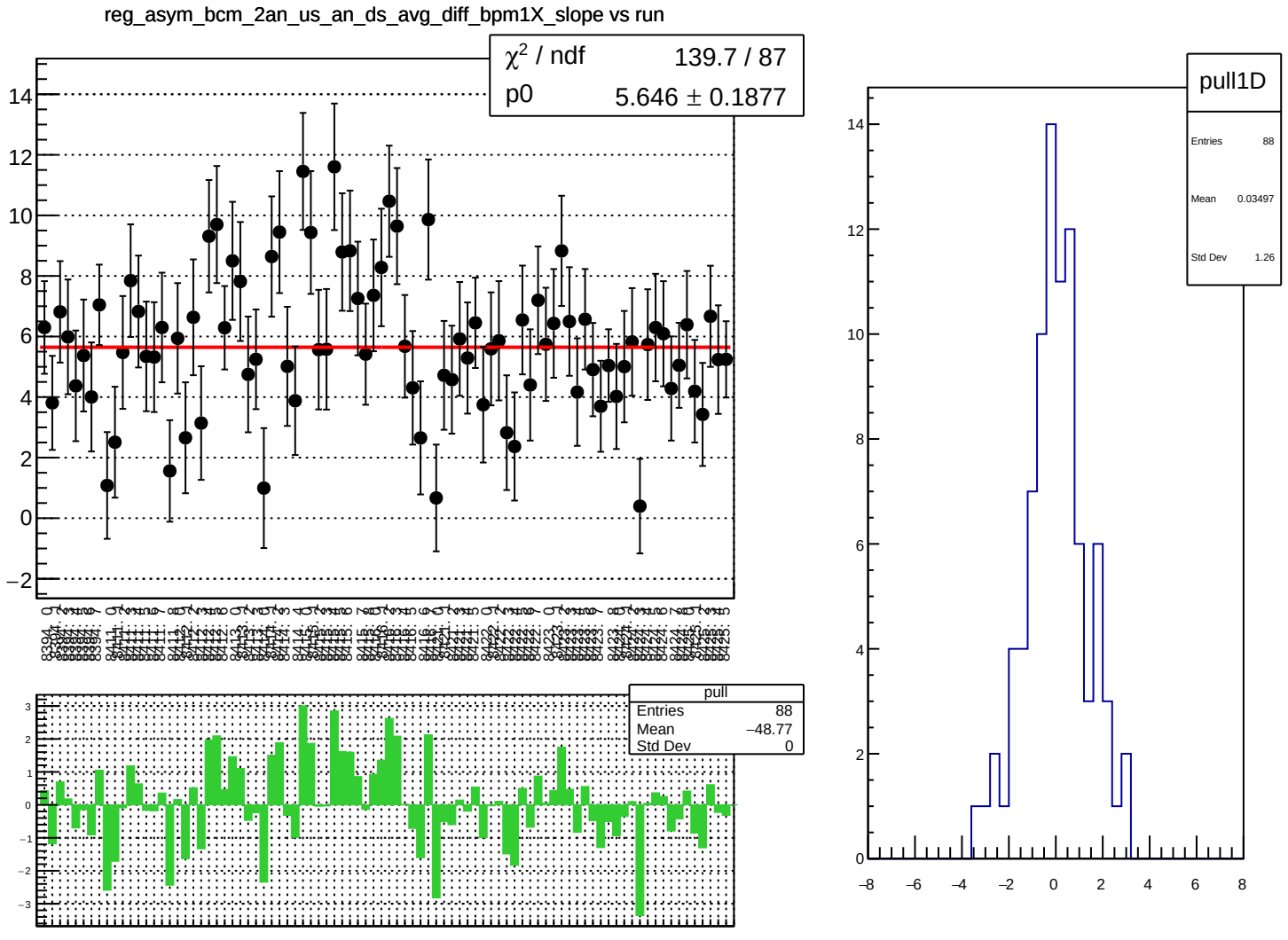

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 139.8 / 87
p0 −7.06 ± 0.2141
pull
Entries 88
Mean −33.45
Std Dev 0

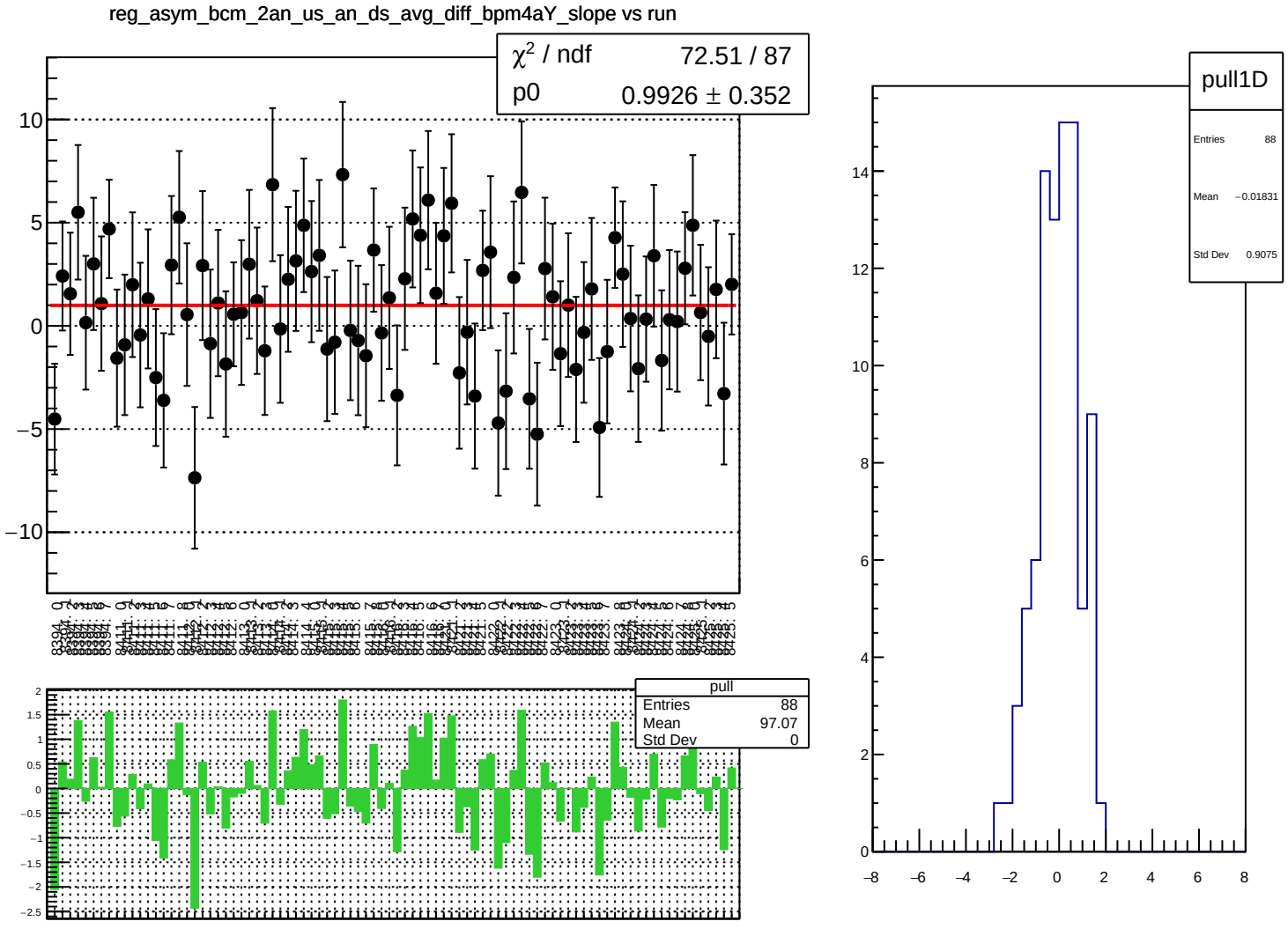

pull1D
Entries 88
Mean −0.03231
Std Dev 1.26

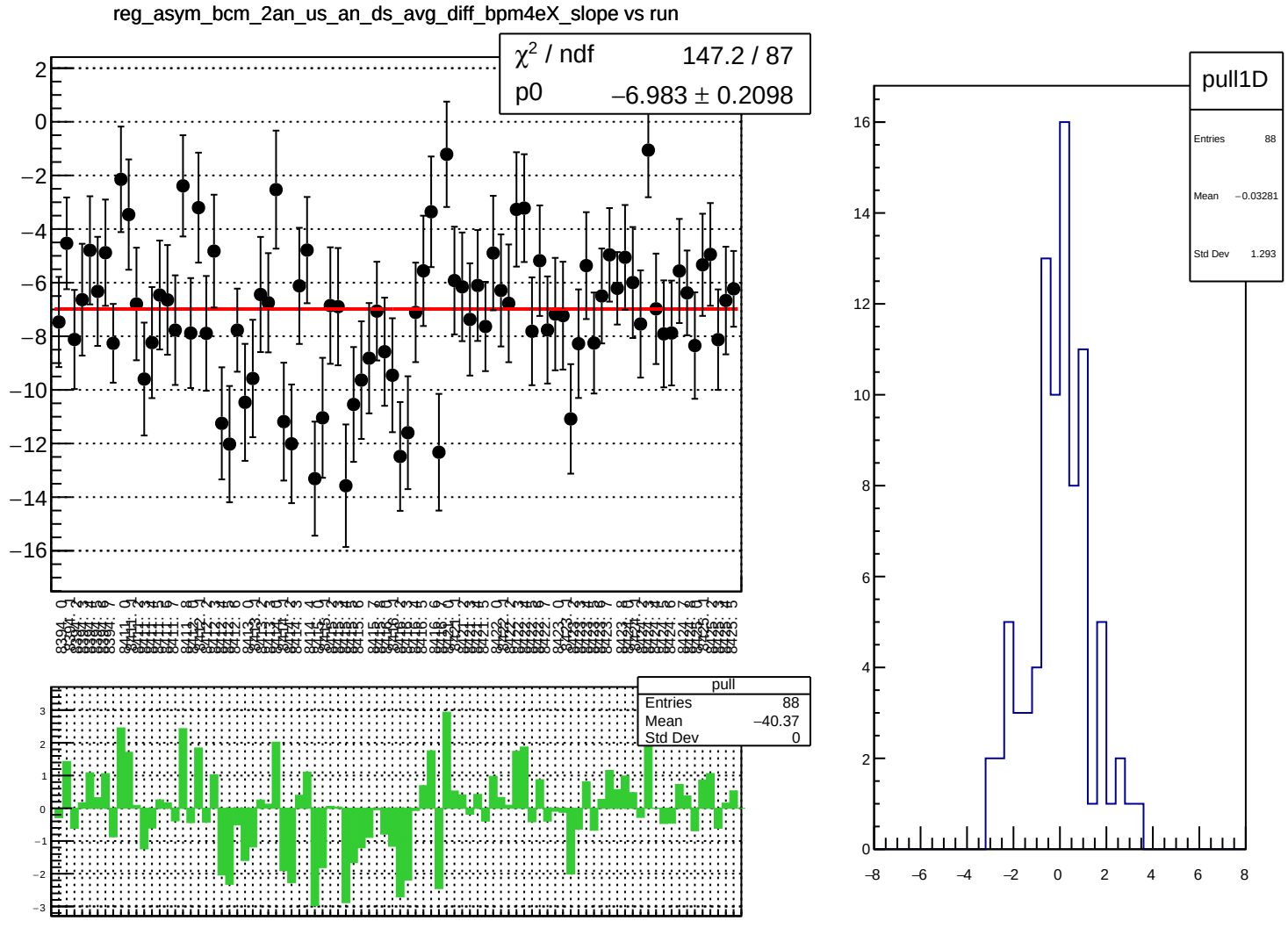

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 75.58 / 87
p0 −0.5649 ± 0.3769
pull
Entries 88
Mean 4.137
Std Dev 45.53
pull1D
Entries 88
Mean 0.01445
Std Dev 0.9266

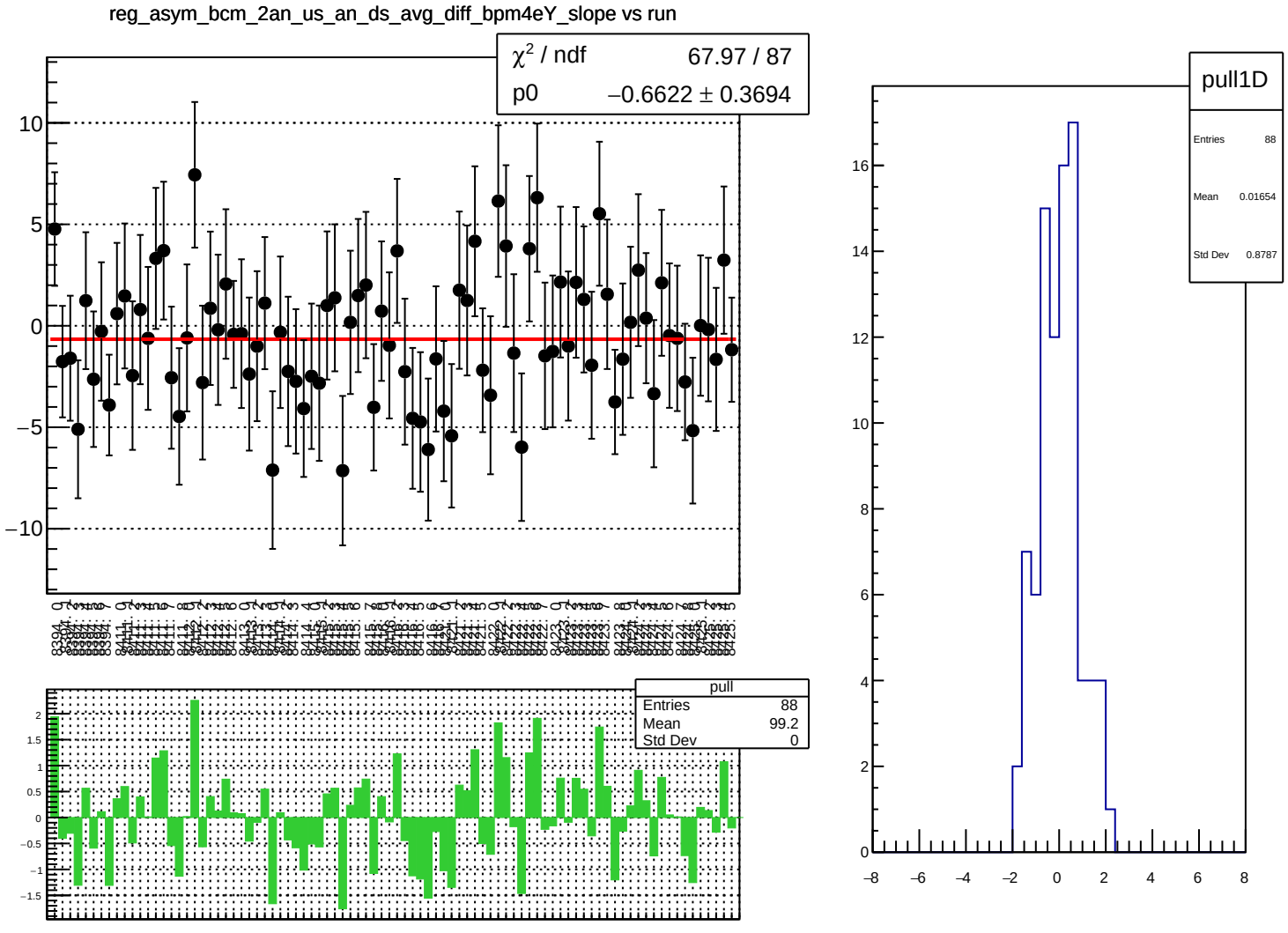

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 132.3 / 87
p0 −0.7739 ± 0.02265
pull
Entries 88
Mean 87.66
Std Dev 0

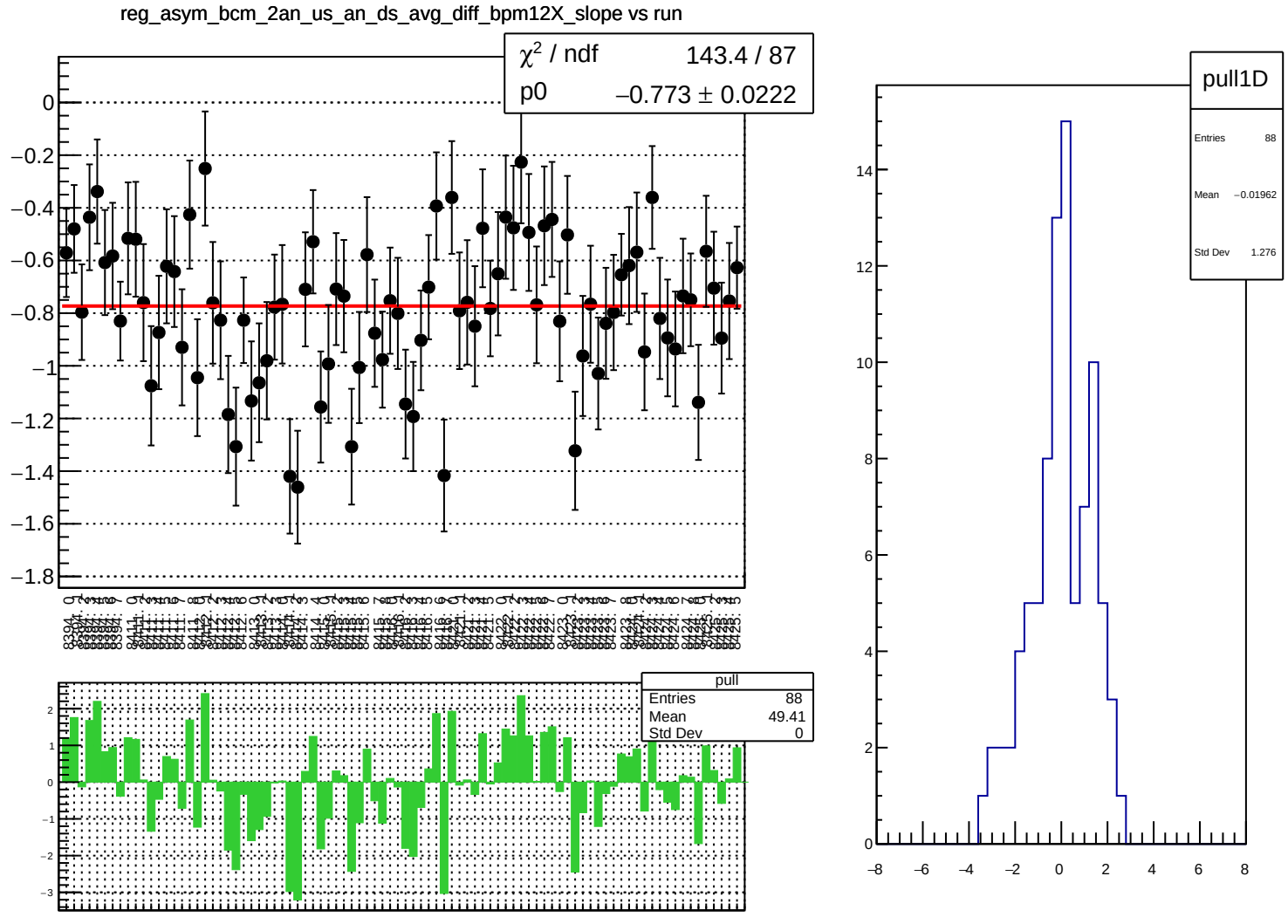

pull1D
Entries 88
Mean −0.02182
Std Dev 1.226

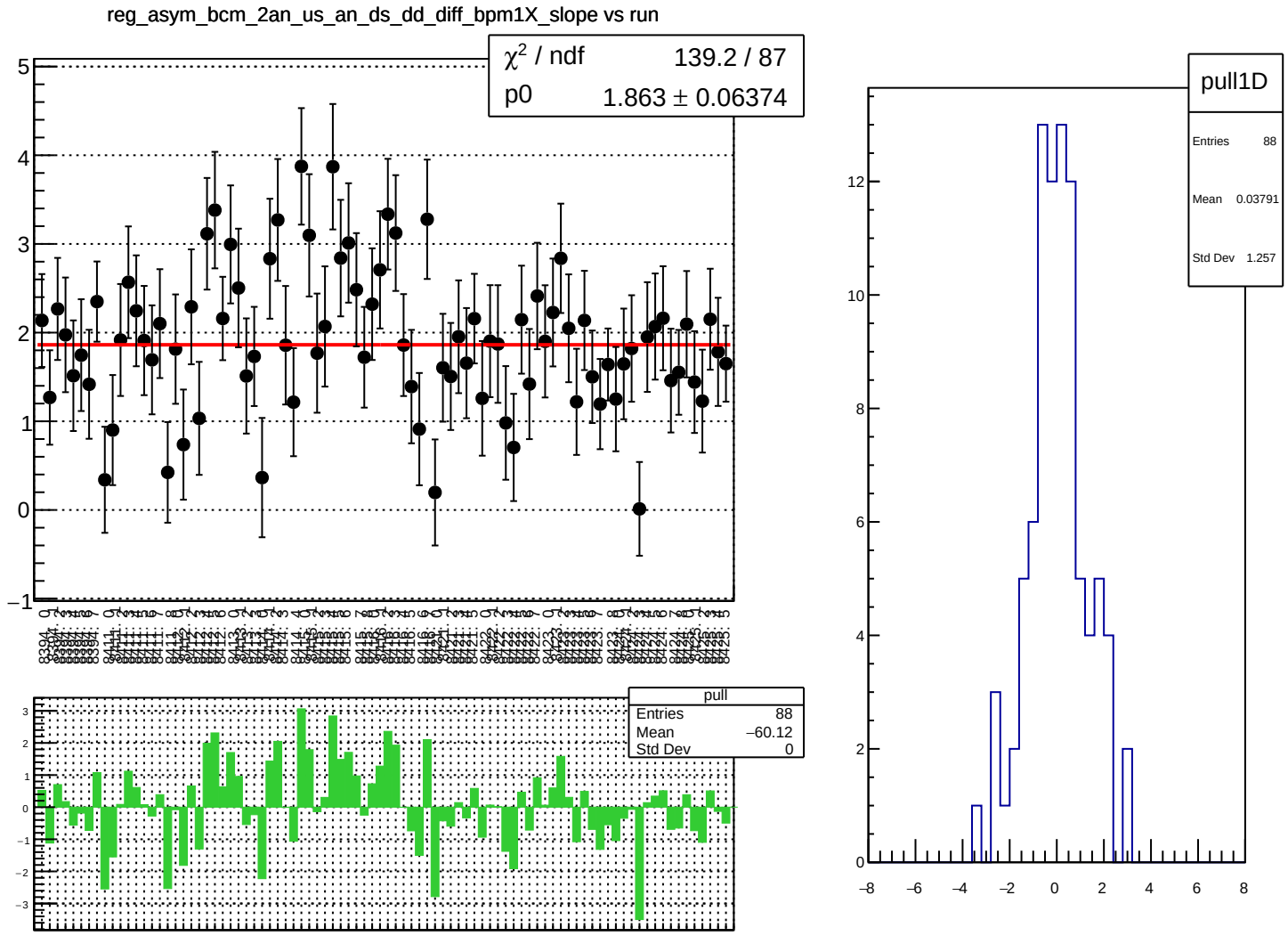

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 139.7 / 87
p0 5.646 ± 0.1877
pull
Entries 88
Mean −48.77
Std Dev 0
pull1D
Entries 88
Mean 0.03497
Std Dev 1.26

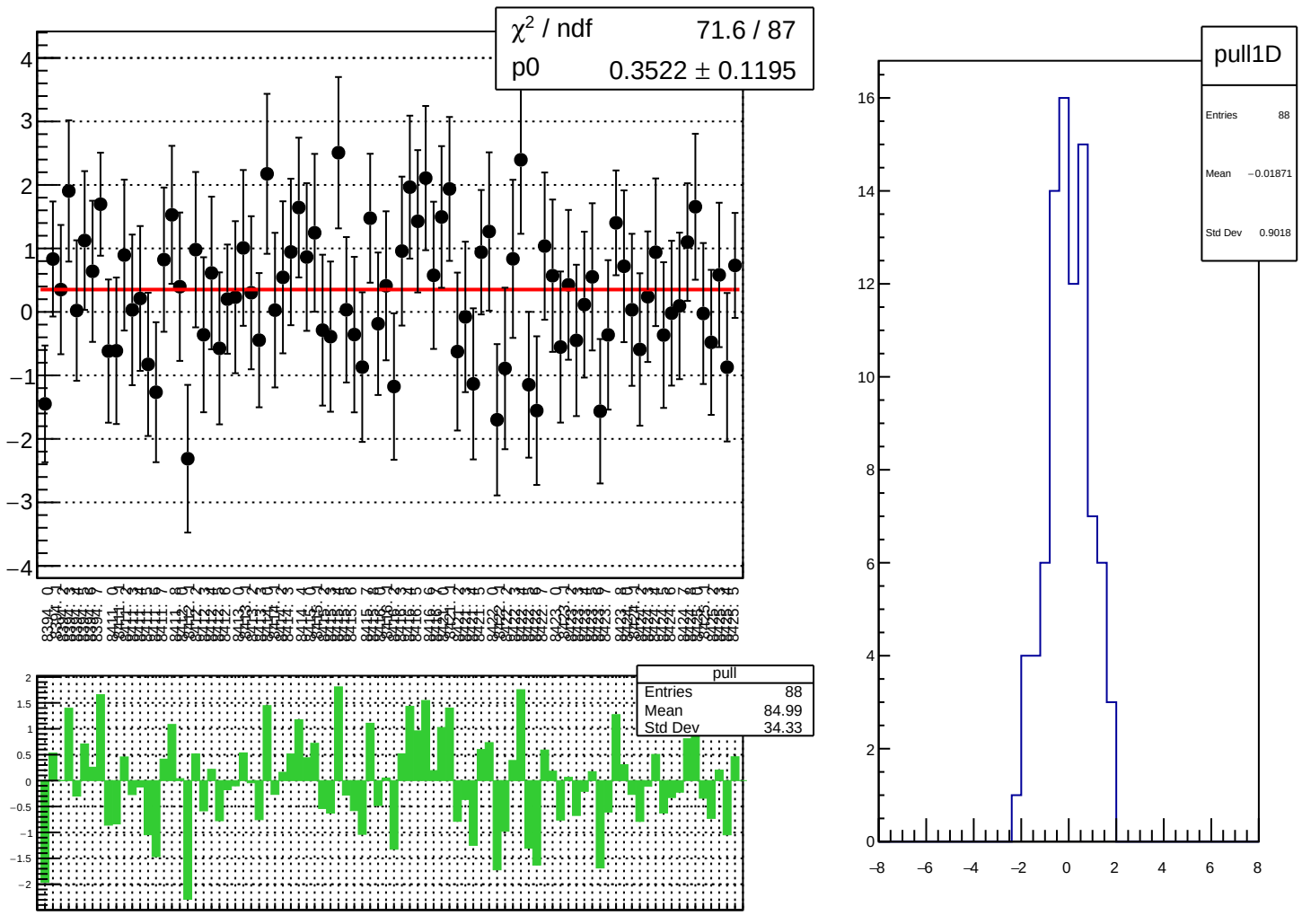

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 72.51 / 87
p0 0.9926 ± 0.352
pull
Entries 88
Mean 97.07
Std Dev 0
pull1D
Entries 88
Mean −0.01831
Std Dev 0.9075

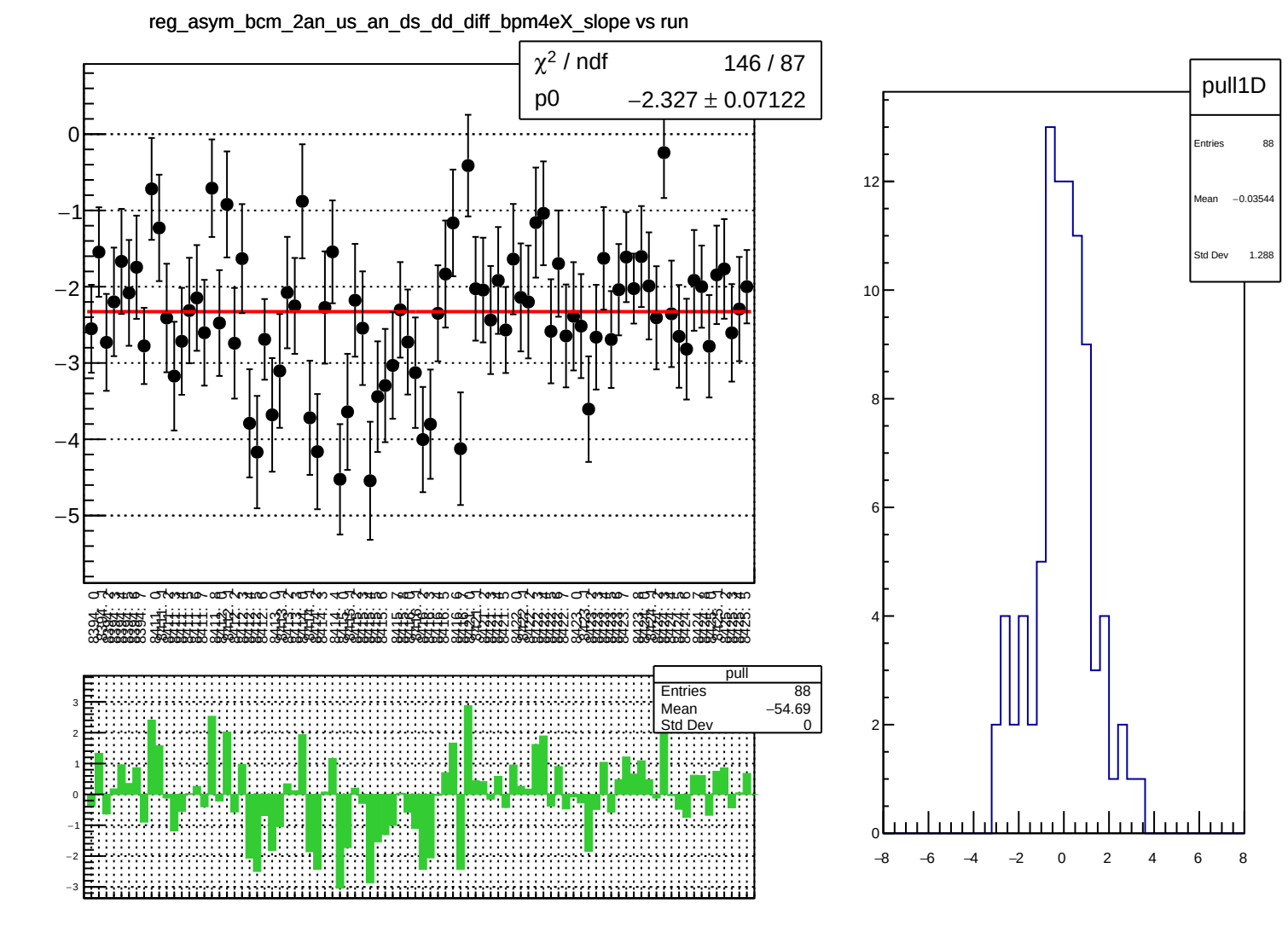

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 147.2 / 87
p0 −6.983 ± 0.2098
pull
Entries 88
Mean −40.37
Std Dev 0
pull1D
Entries 88
Mean −0.03281
Std Dev 1.293

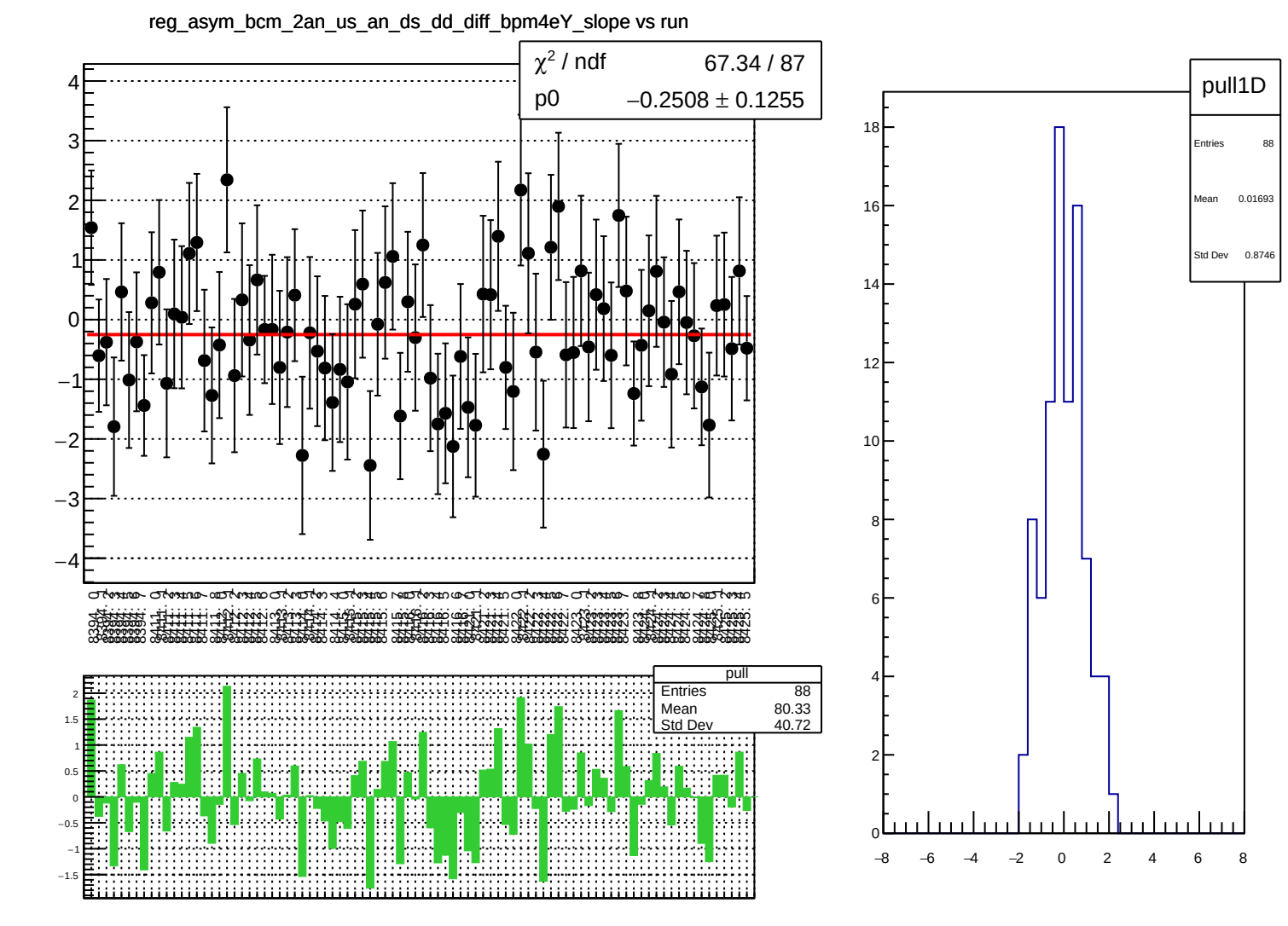

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 67.97 / 87
p0 −0.6622 ± 0.3694
pull
Entries 88
Mean 99.2
Std Dev 0
pull1D
Entries 88
Mean 0.01654
Std Dev 0.8787

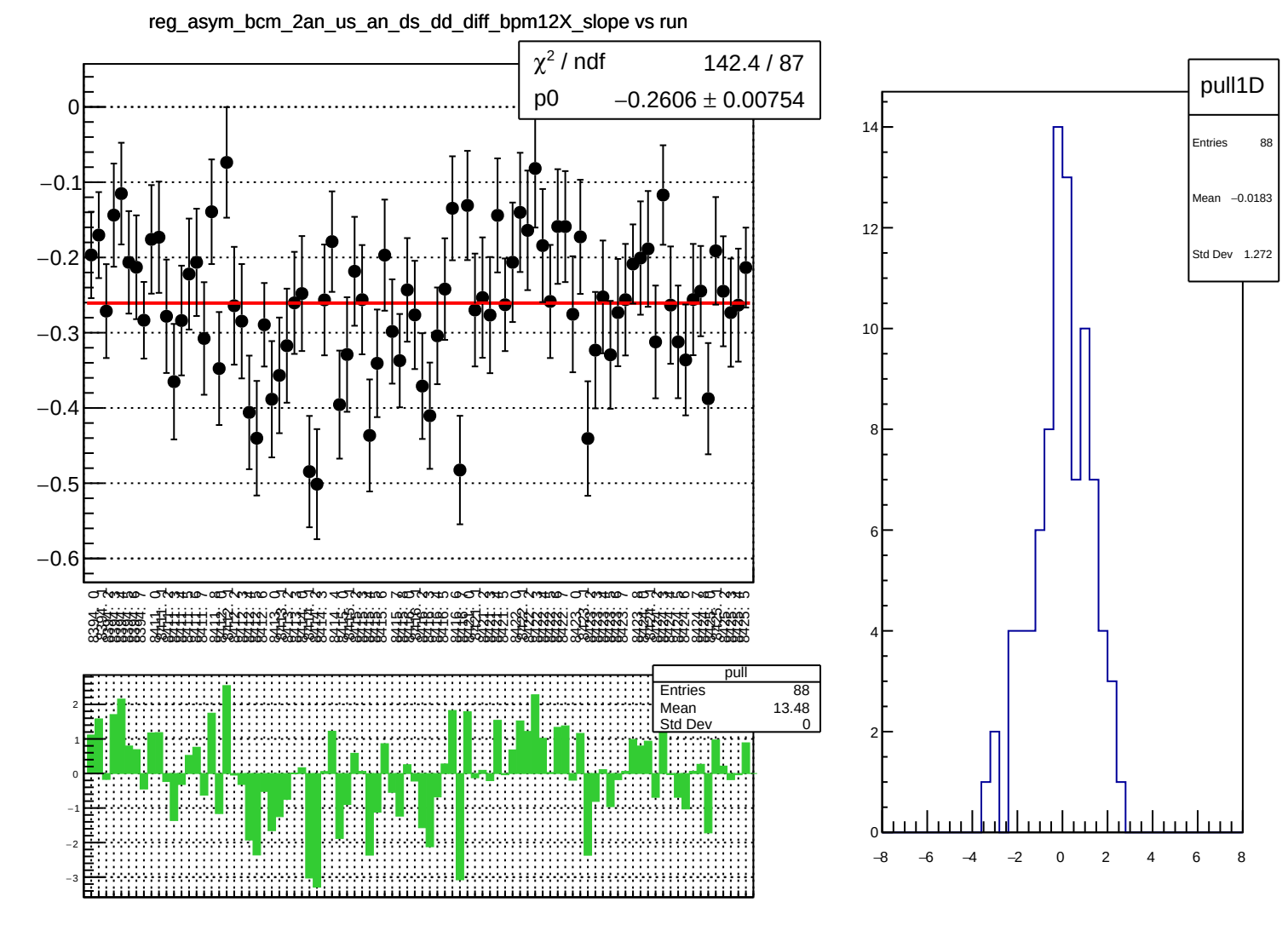

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 143.4 / 87
p0 −0.773 ± 0.0222
pull
Entries 88
Mean 49.41
Std Dev 0
pull1D
Entries 88
Mean −0.01962
Std Dev 1.276

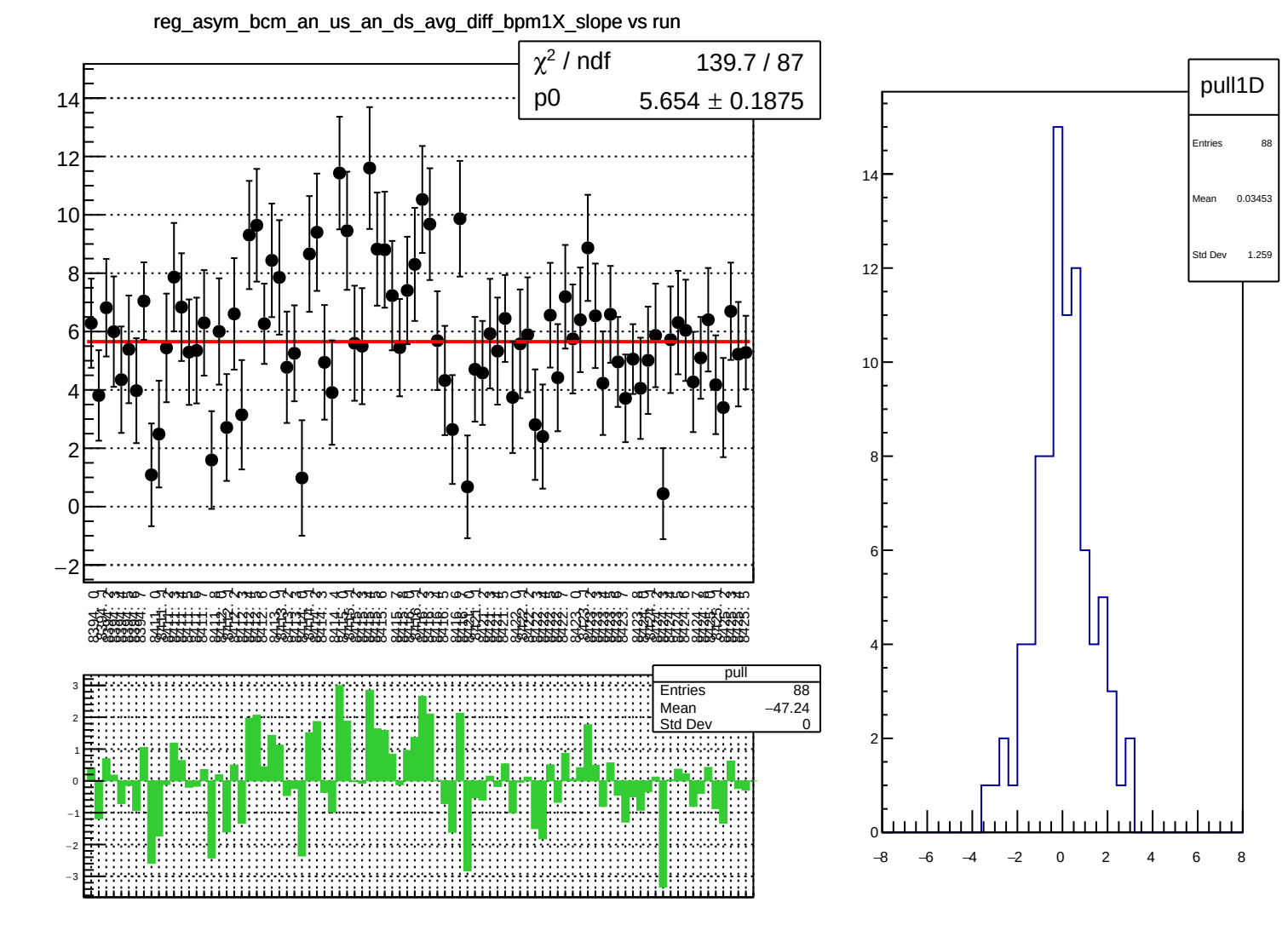

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 139.2 / 87
p0 1.863 ± 0.06374
pull
Entries 88
Mean −60.12
Std Dev 0
pull1D
Entries 88
Mean 0.03791
Std Dev 1.257

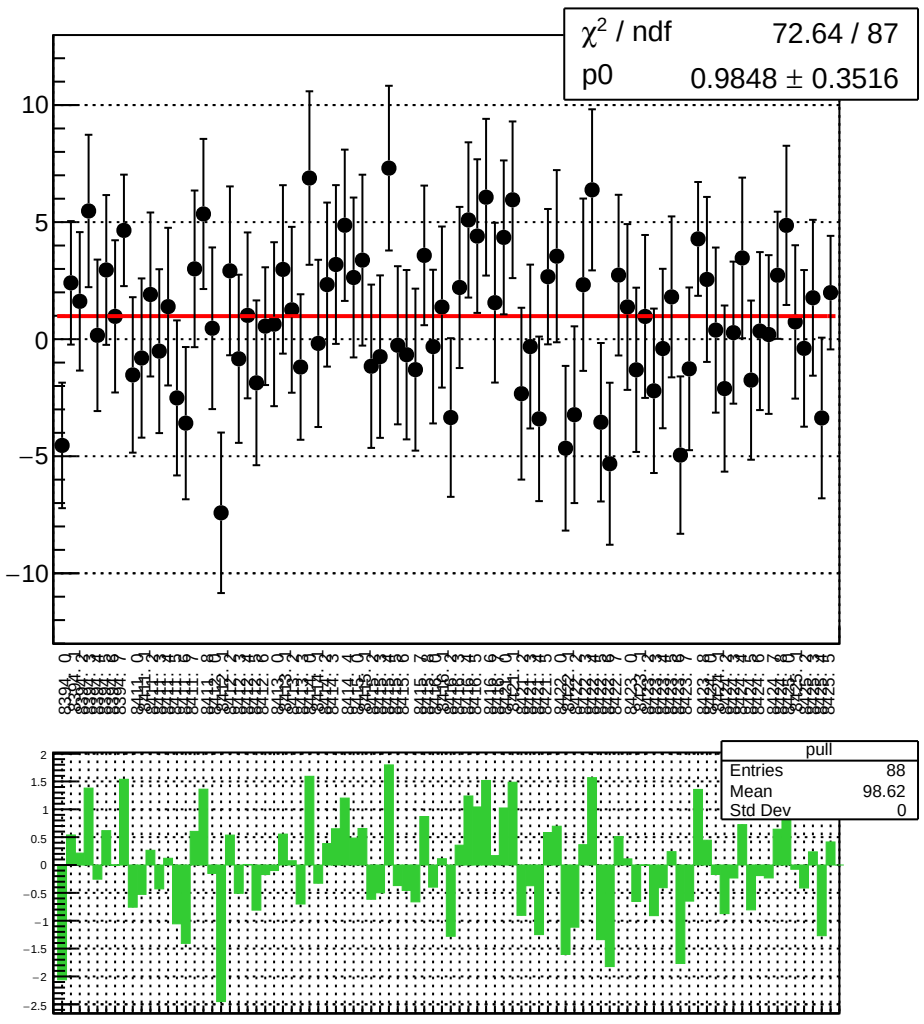

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 71.6 / 87
p0 0.3522 ± 0.1195
pull
Entries 88
Mean 84.99
Std Dev 34.33
pull1D
Entries 88
Mean −0.01871
Std Dev 0.9018

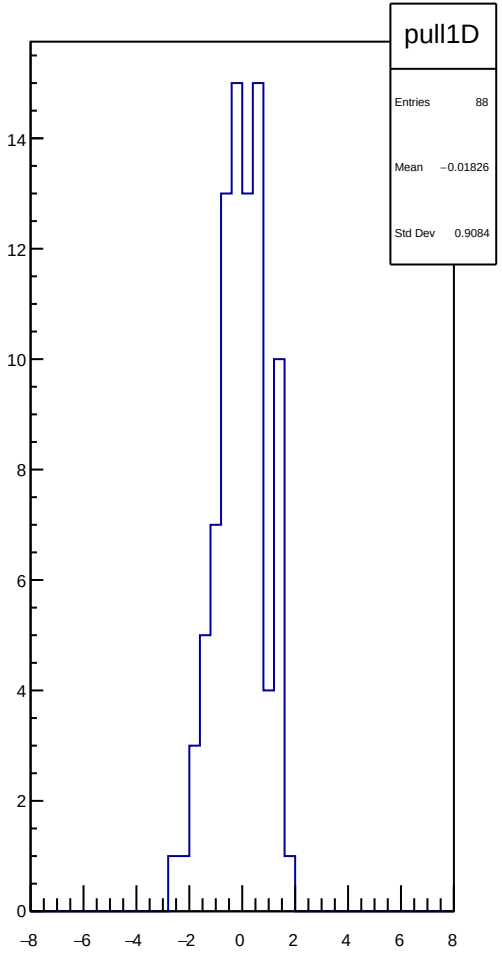

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 146 / 87
p0 −2.327 ± 0.07122
pull
Entries 88
Mean −54.69
Std Dev 0
pull1D
Entries 88
Mean −0.03544
Std Dev 1.288

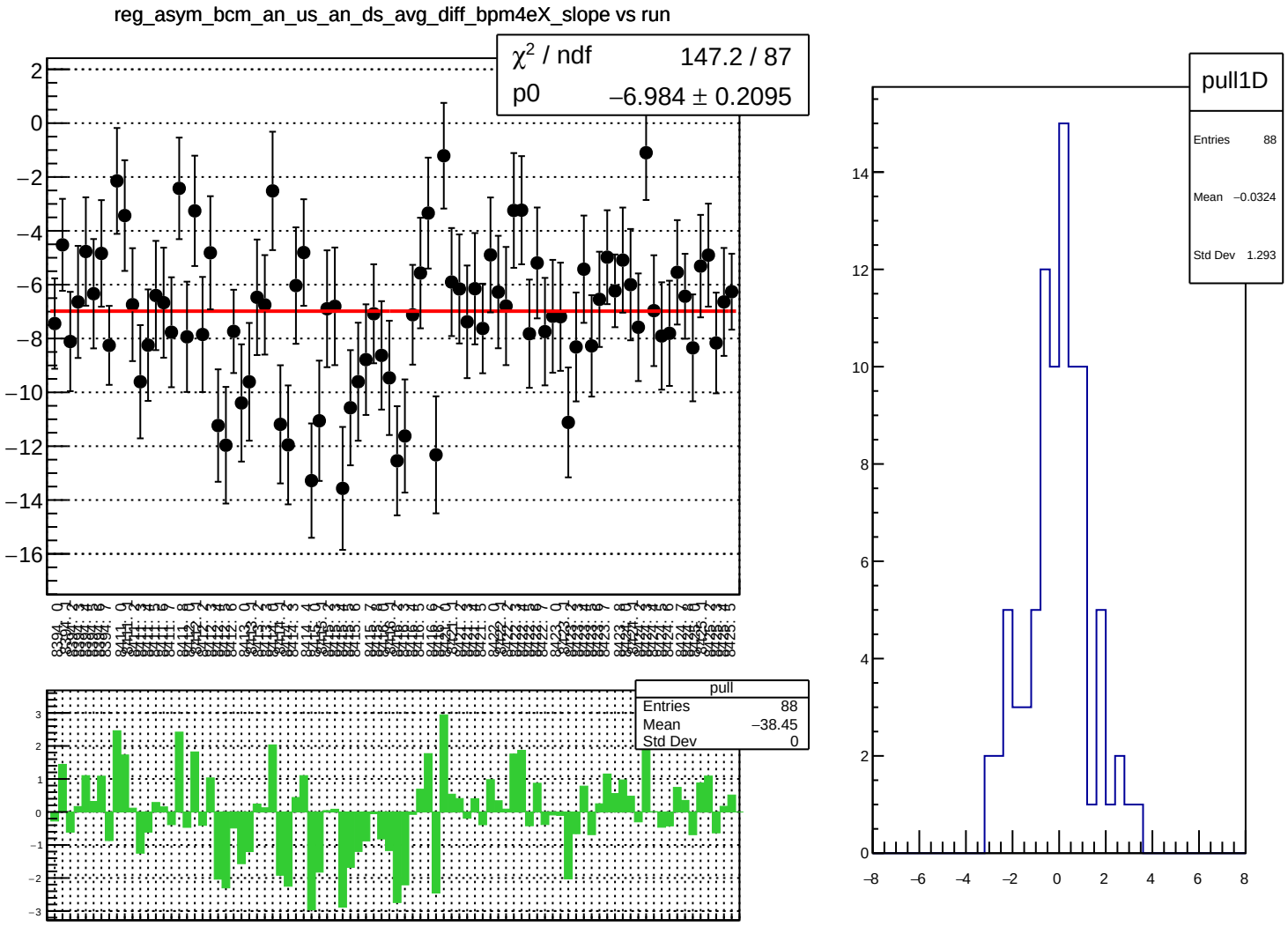

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 67.34 / 87
p0 −0.2508 ± 0.1255
pull
Entries 88
Mean 80.33
Std Dev 40.72
pull1D
Entries 88
Mean 0.01693
Std Dev 0.8746

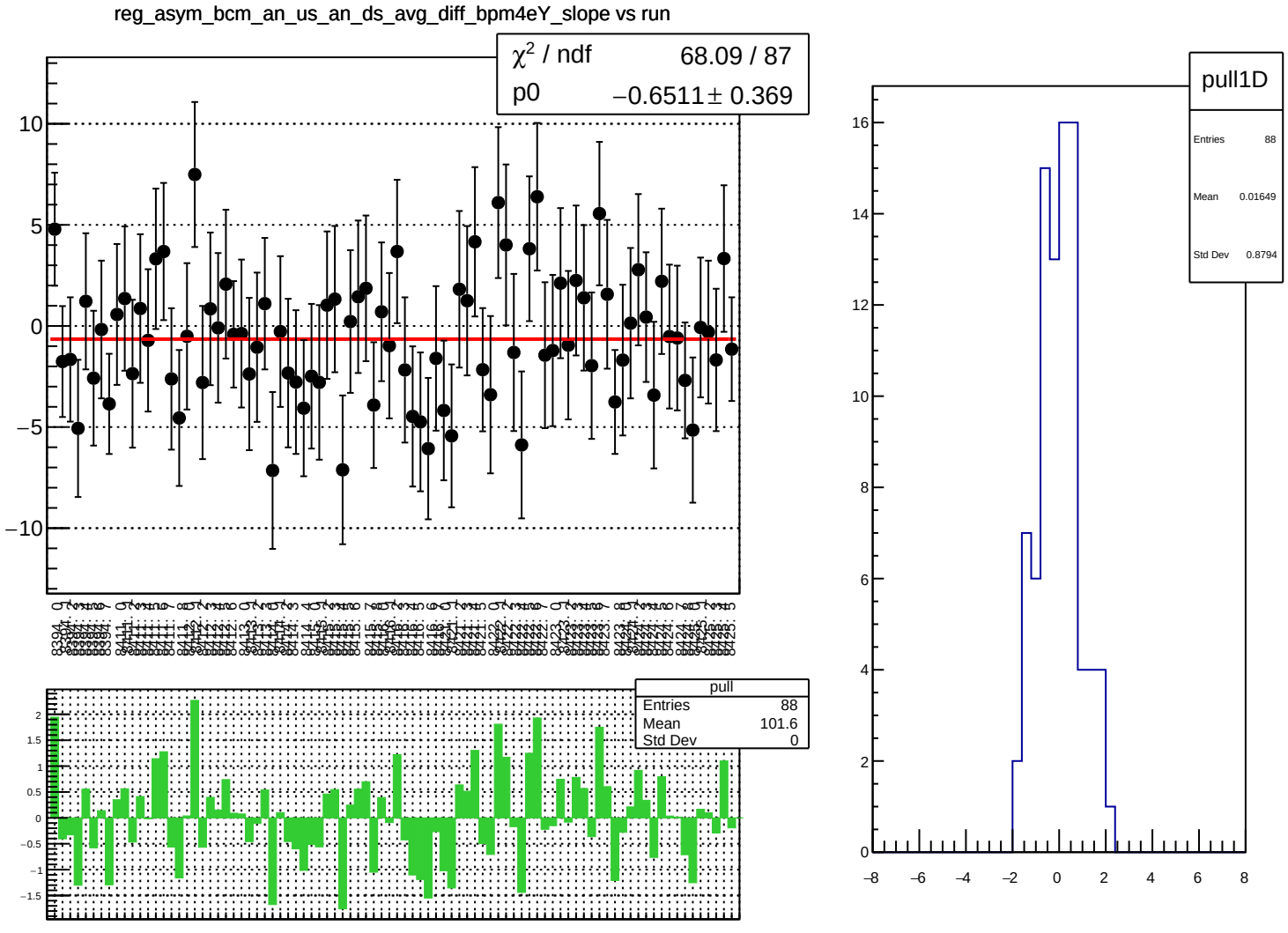

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 142.4 / 87
p0 −0.2606 ± 0.00754
pull
Entries 88
Mean 13.48
Std Dev 0
pull1D
Entries 88
Mean −0.0183
Std Dev 1.272

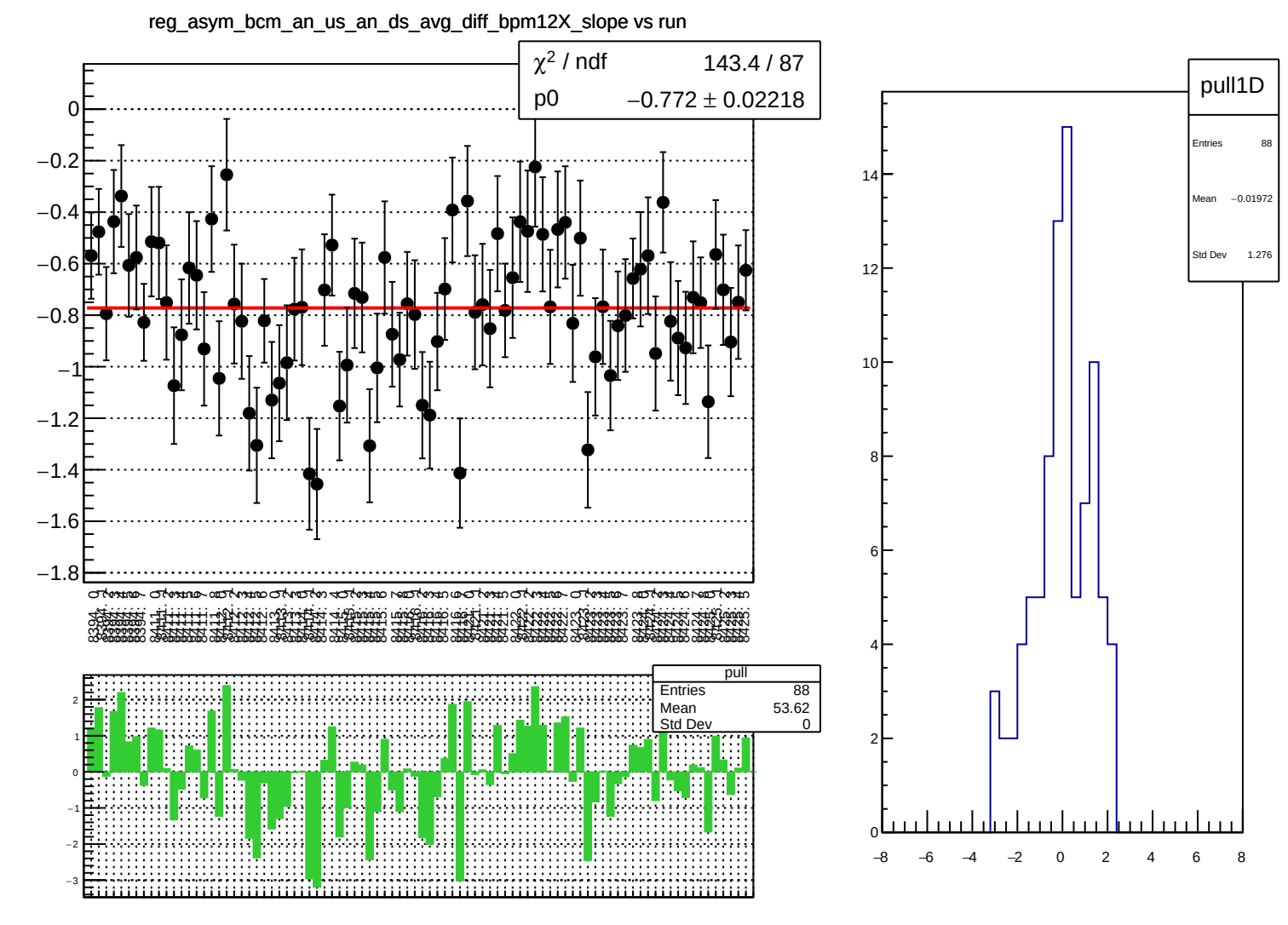

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 139.7 / 87
p0 5.654 ± 0.1875
pull
Entries 88
Mean −47.24
Std Dev 0
pull1D
Entries 88
Mean 0.03453
Std Dev 1.259

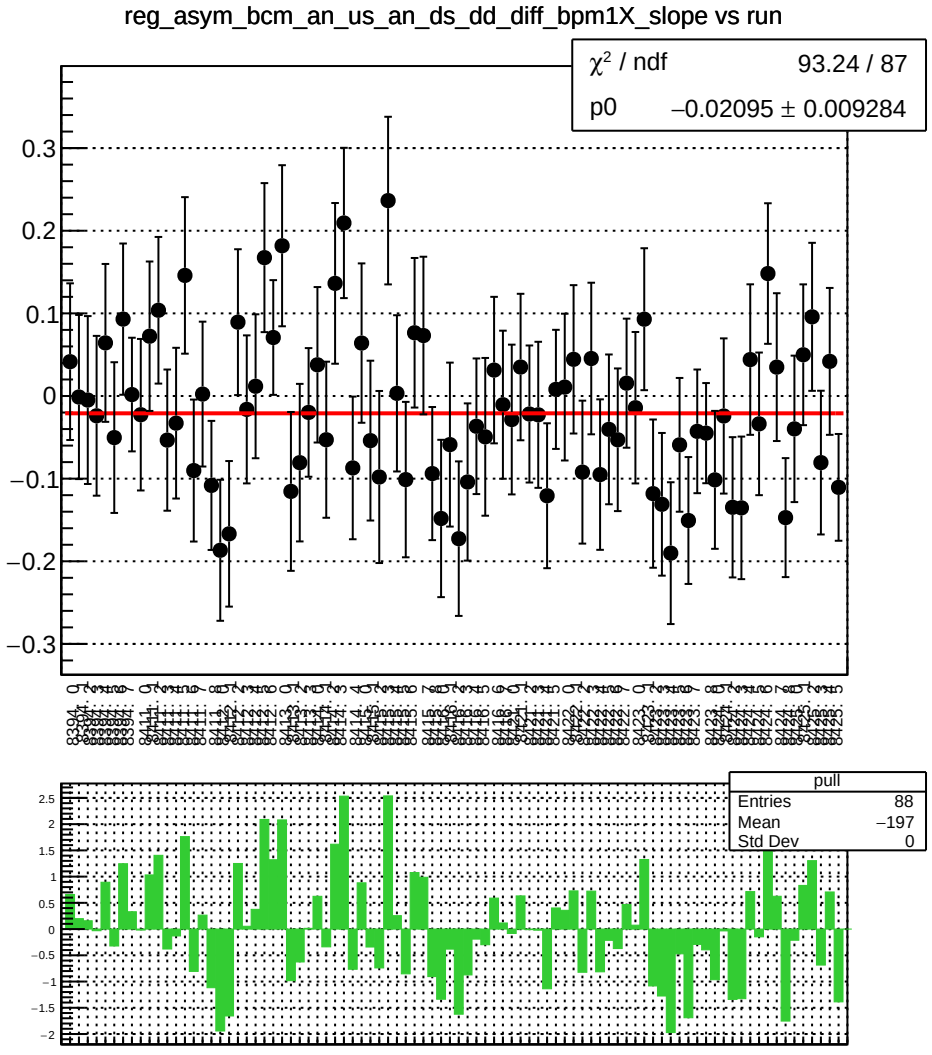

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 72.64 / 87
p0 0.9848 ± 0.3516
pull
Entries 88
Mean 98.62
Std Dev 0

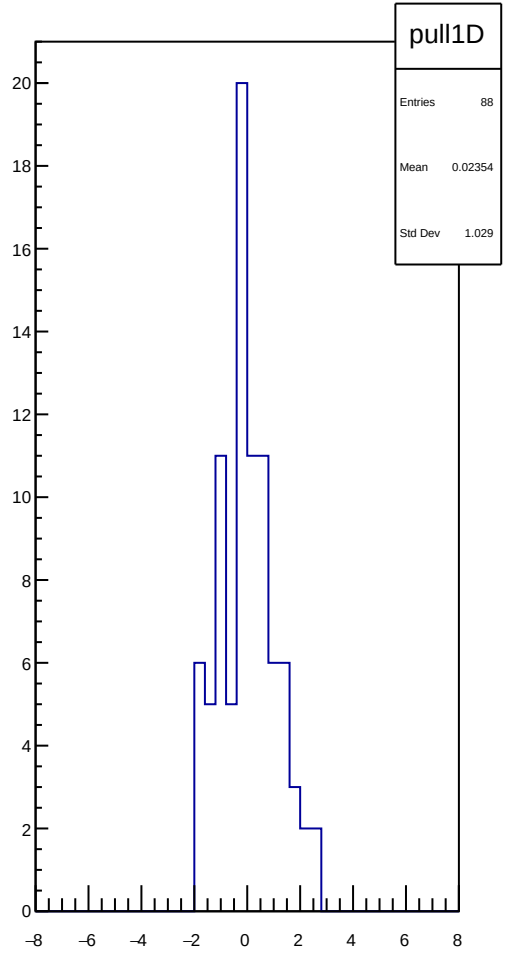

pull1D
Entries 88
Mean −0.01826
Std Dev 0.9084

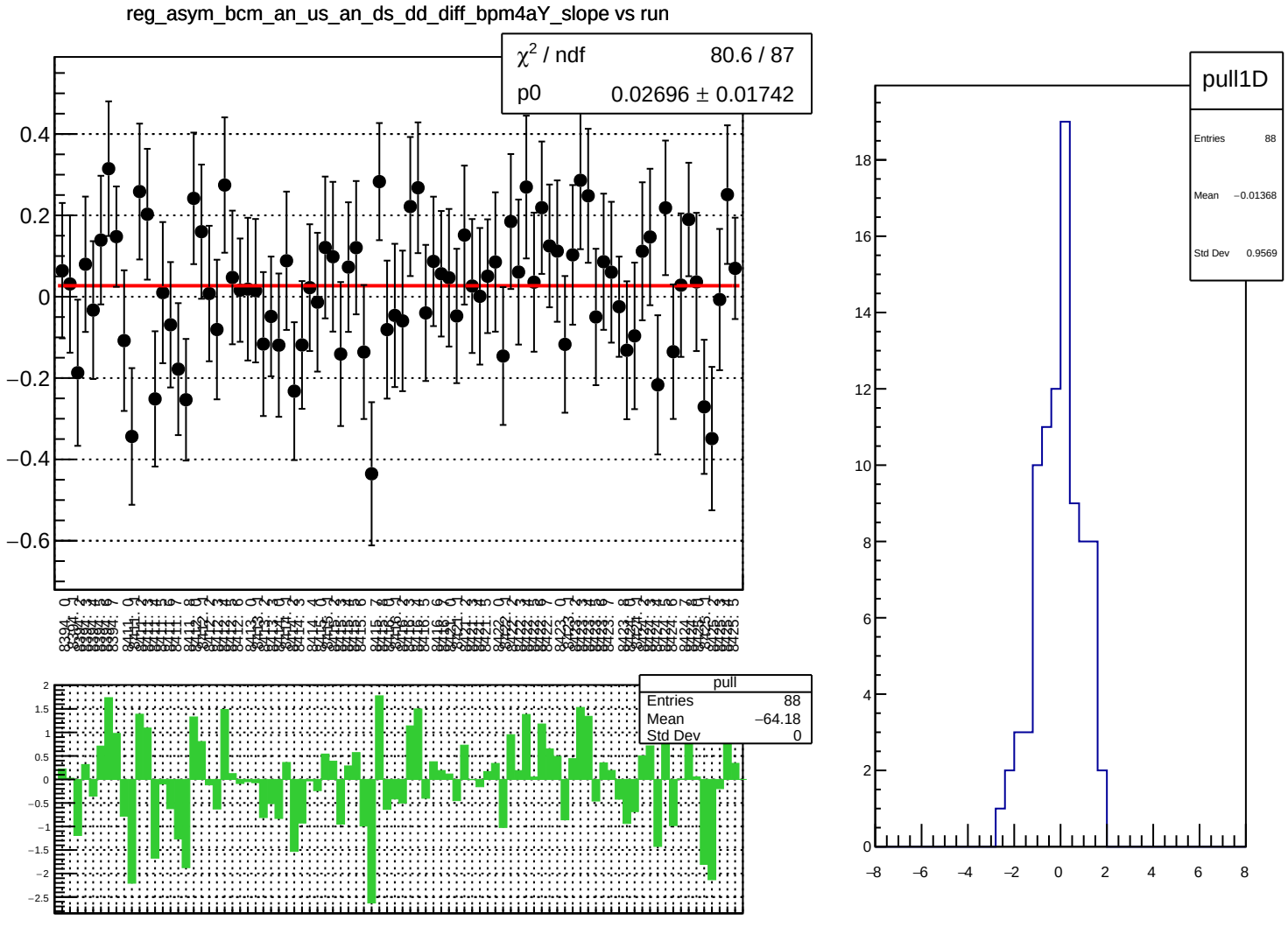

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 147.2 / 87
p0 −6.984 ± 0.2095
pull
Entries 88
Mean −38.45
Std Dev 0
pull1D
Entries 88
Mean −0.0324
Std Dev 1.293

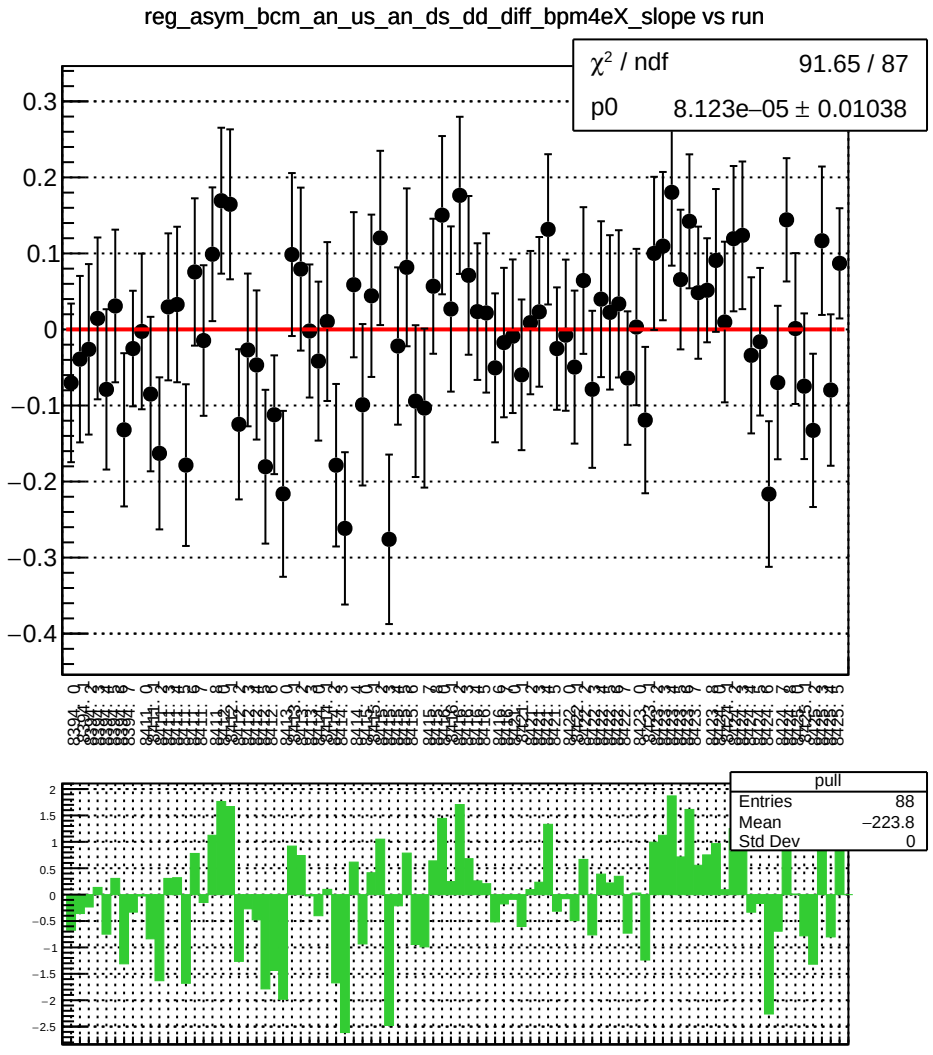

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 68.09 / 87
p0 −0.6511 ± 0.369
pull
Entries 88
Mean 101.6
Std Dev 0
pull1D
Entries 88
Mean 0.01649
Std Dev 0.8794

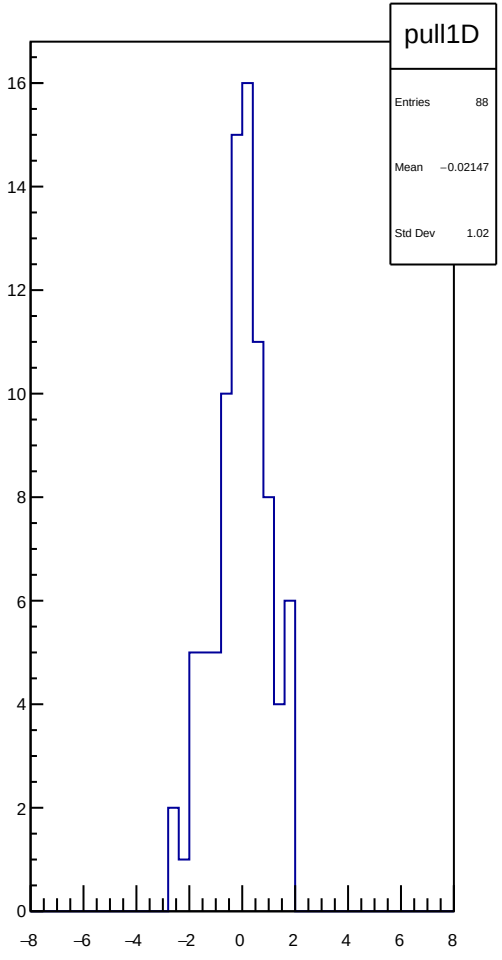

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 143.4 / 87
p0 −0.772 ± 0.02218
pull
Entries 88
Mean 53.62
Std Dev 0
pull1D
Entries 88
Mean −0.01972
Std Dev 1.276

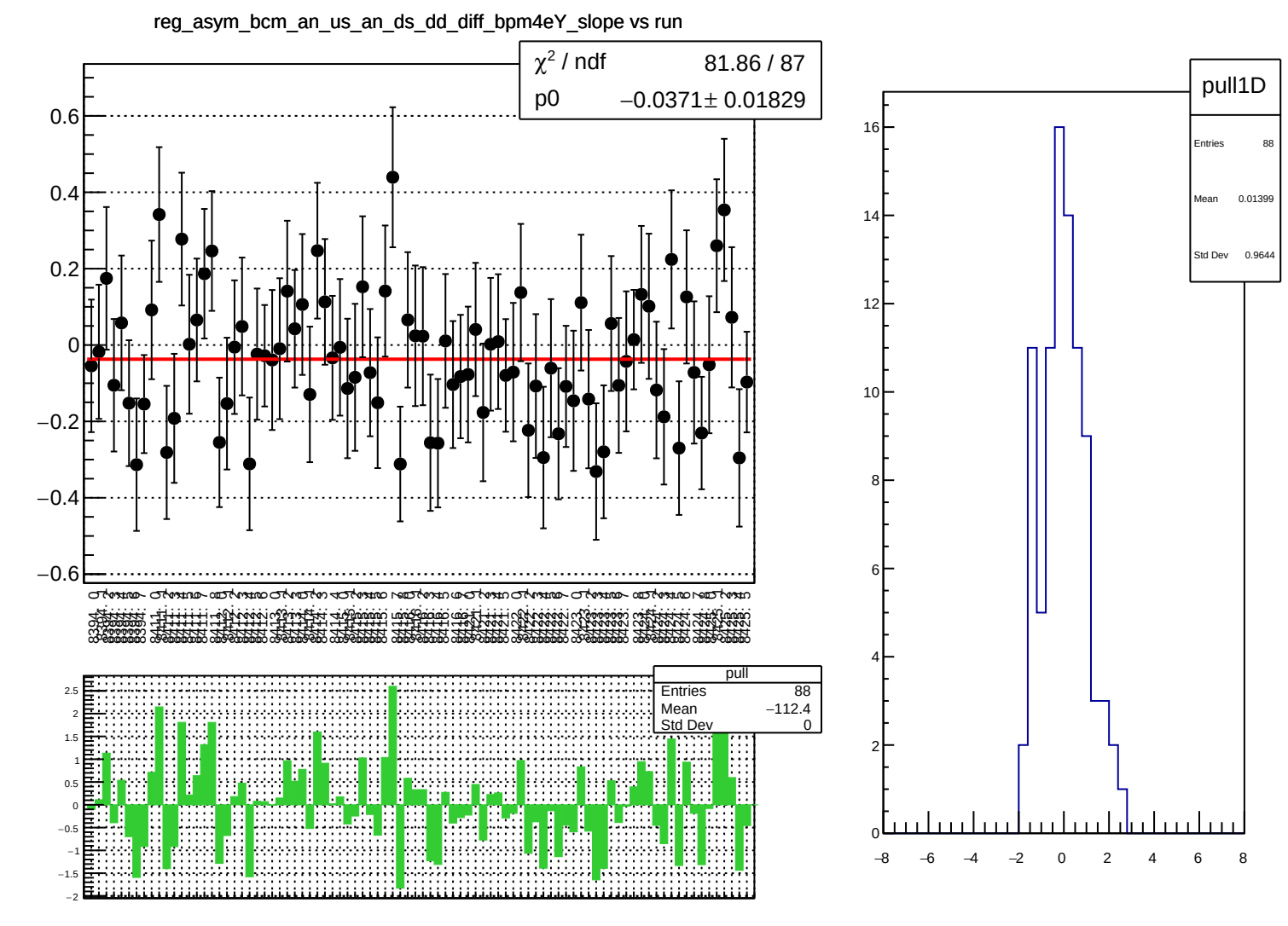

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 93.24 / 87
p0 −0.02095 ± 0.009284
pull
Entries 88
Mean −197
Std Dev 0

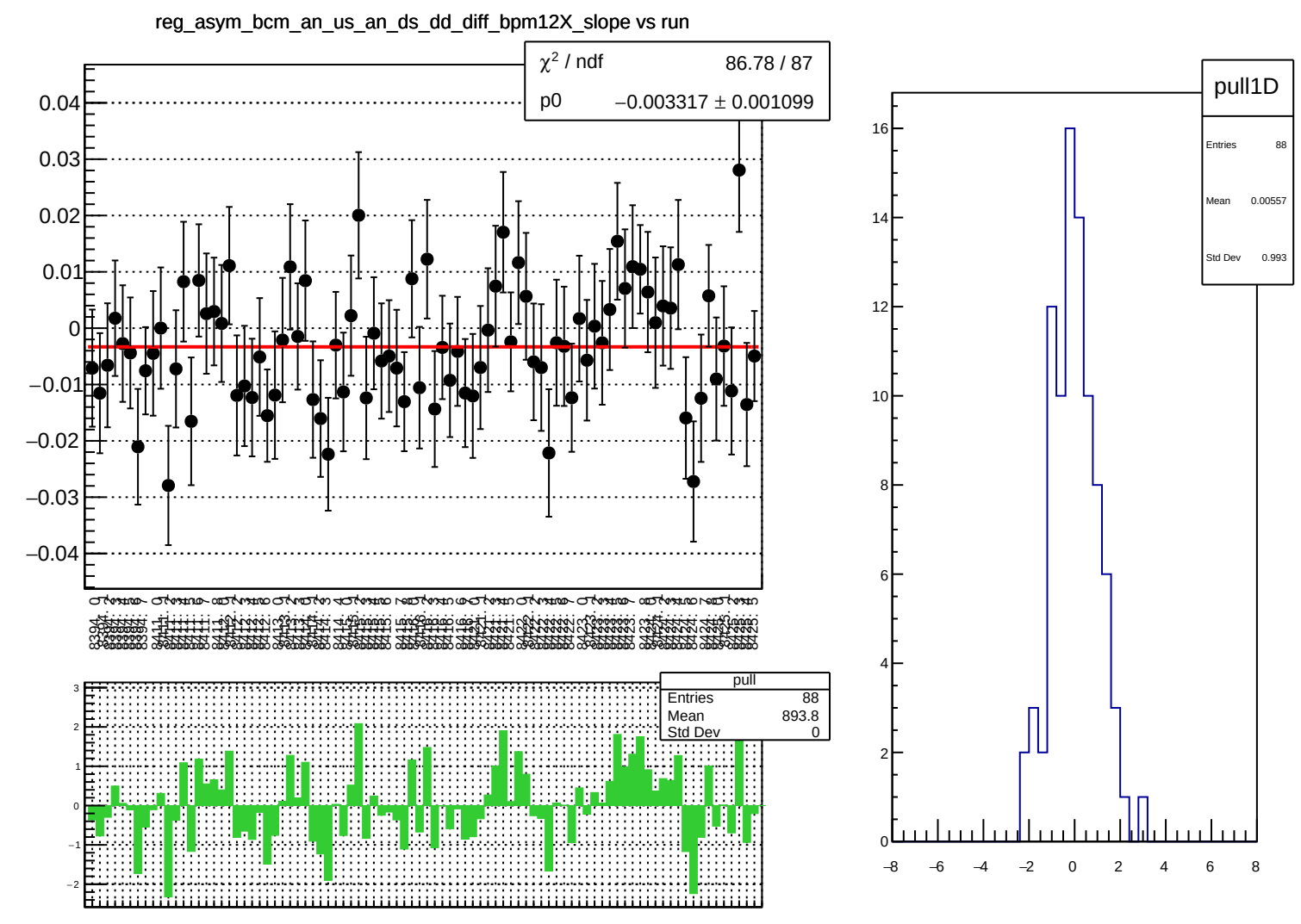

pull1D
Entries 88
Mean 0.02354
Std Dev 1.029

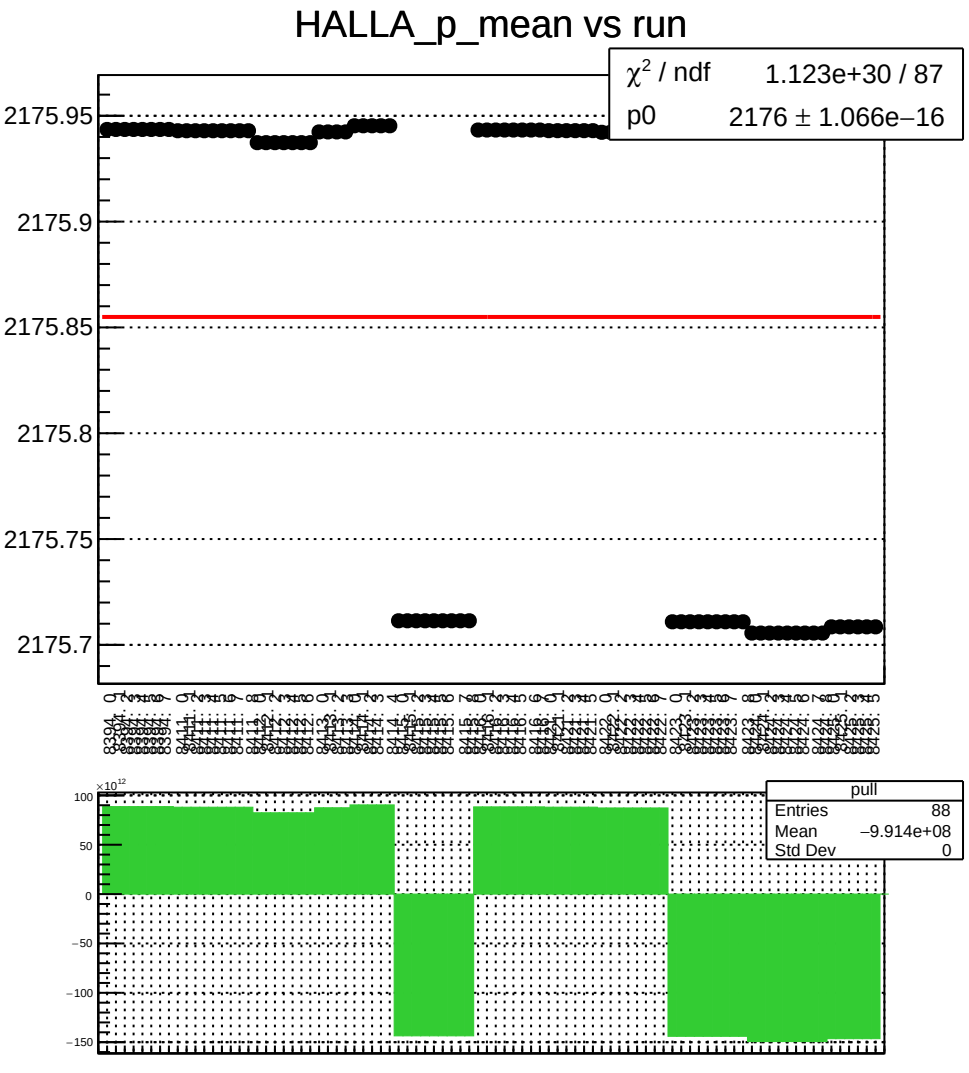

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 80.6 / 87
p0 0.02696 ± 0.01742
pull
Entries 88
Mean −64.18
Std Dev 0
pull1D
Entries 88
Mean −0.01368
Std Dev 0.9569

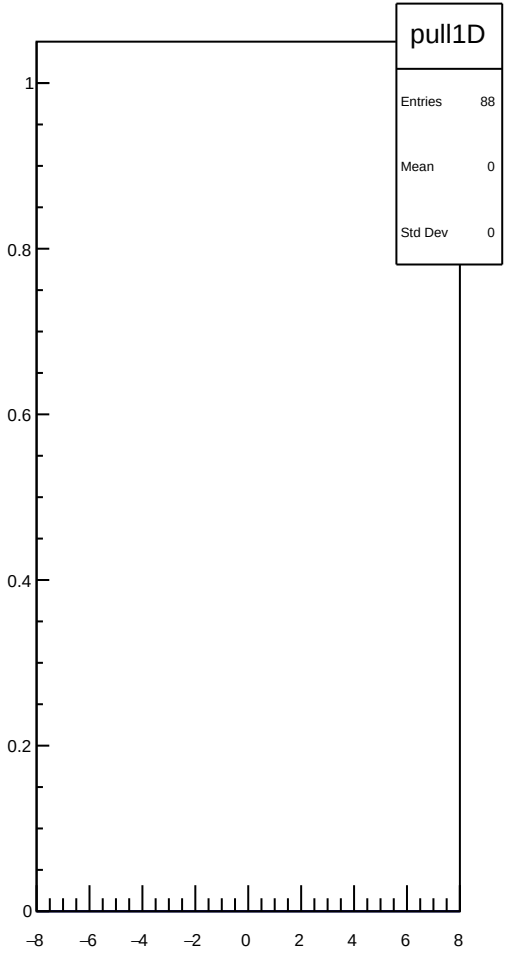

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 91.65 / 87
p0 8.123e−05 ± 0.01038
pull
Entries 88
Mean −223.8
Std Dev 0

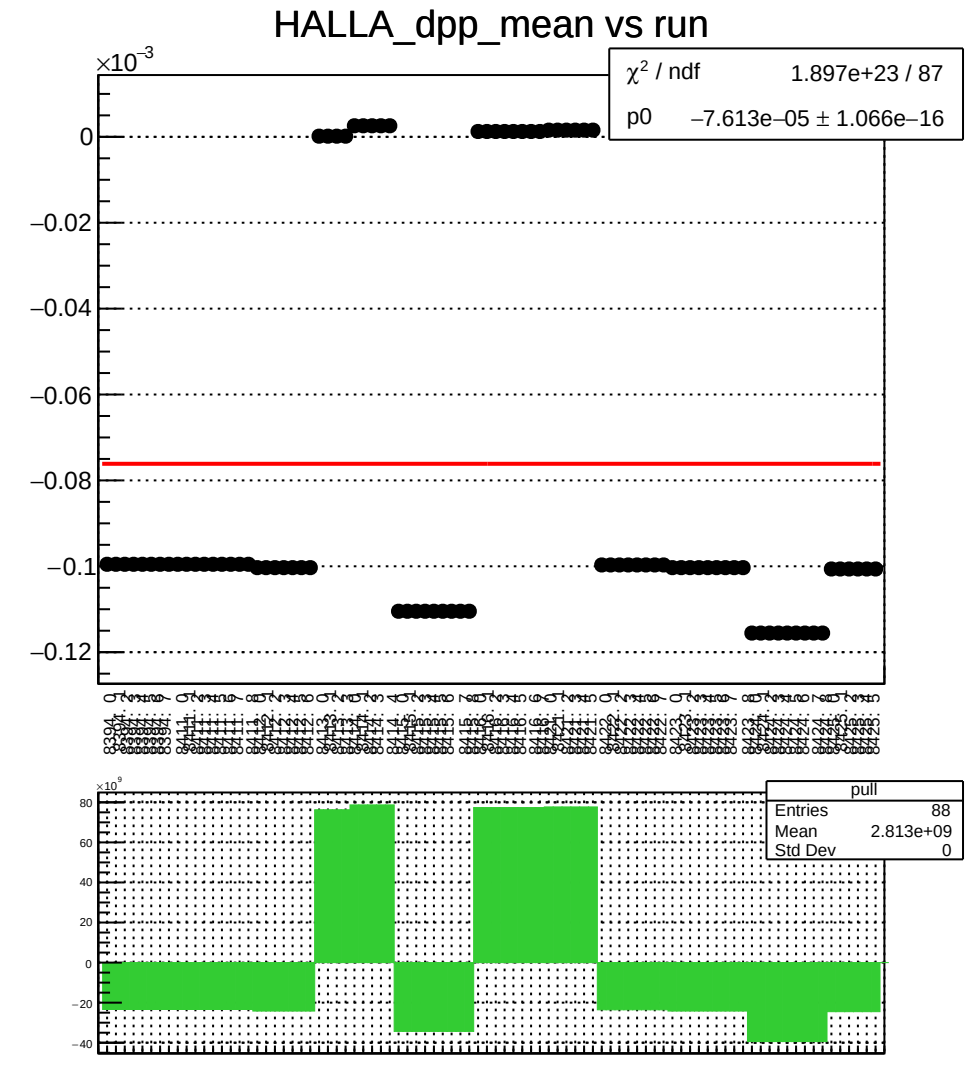

pull1D
Entries 88
Mean −0.02147
Std Dev 1.02

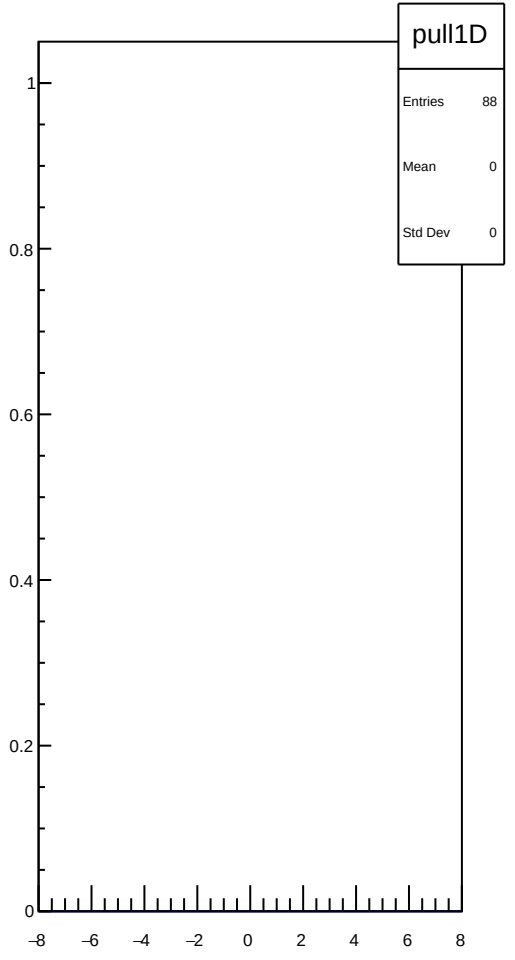

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 81.86 / 87
p0 −0.0371± 0.01829
pull
Entries 88
Mean −112.4
Std Dev 0
pull1D
Entries 88
Mean 0.01399
Std Dev 0.9644

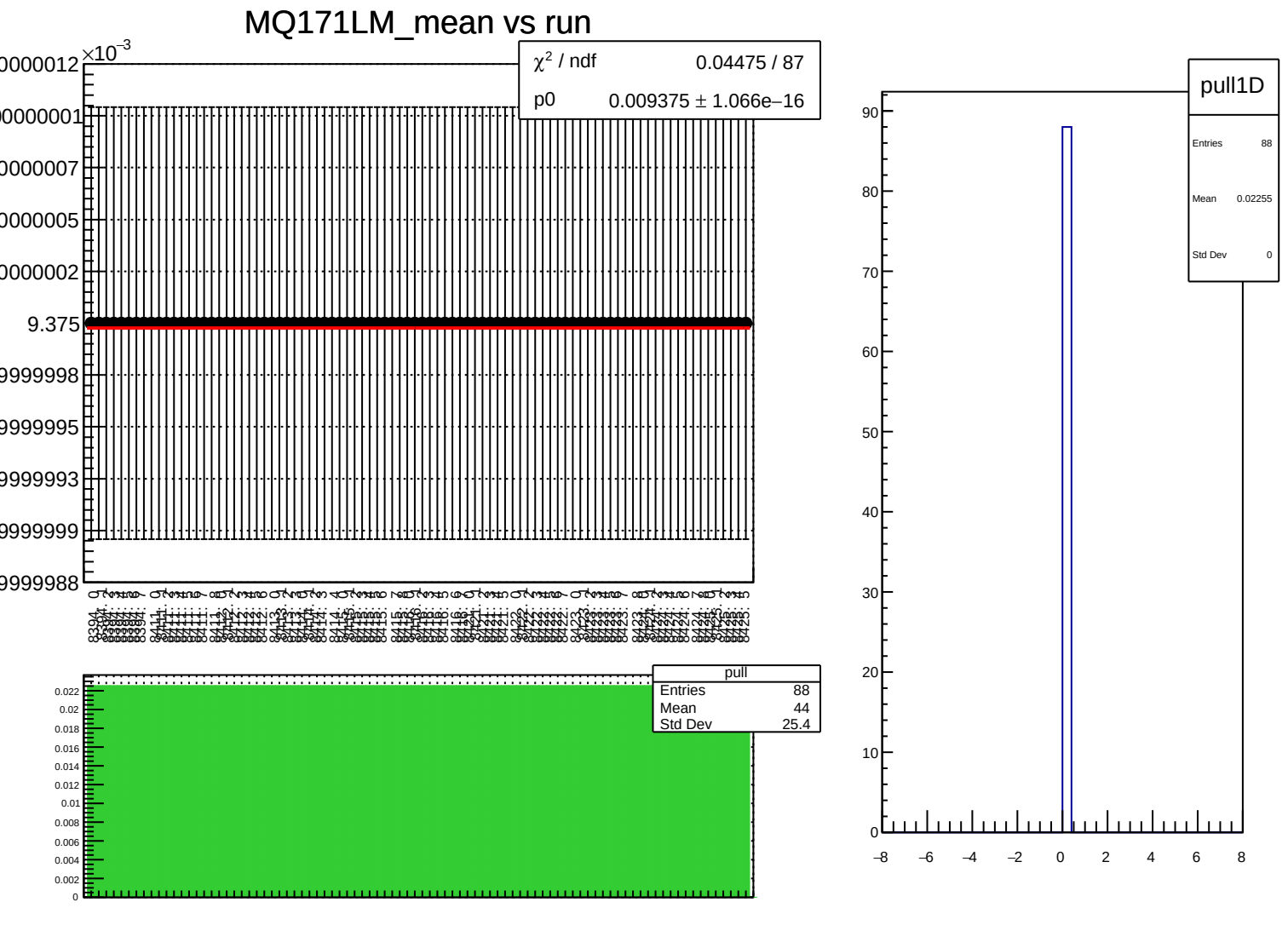

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 86.78 / 87
p0 −0.003317 ± 0.001099
pull
Entries 88
Mean 893.8
Std Dev 0
pull1D
Entries 88
Mean 0.00557
Std Dev 0.993

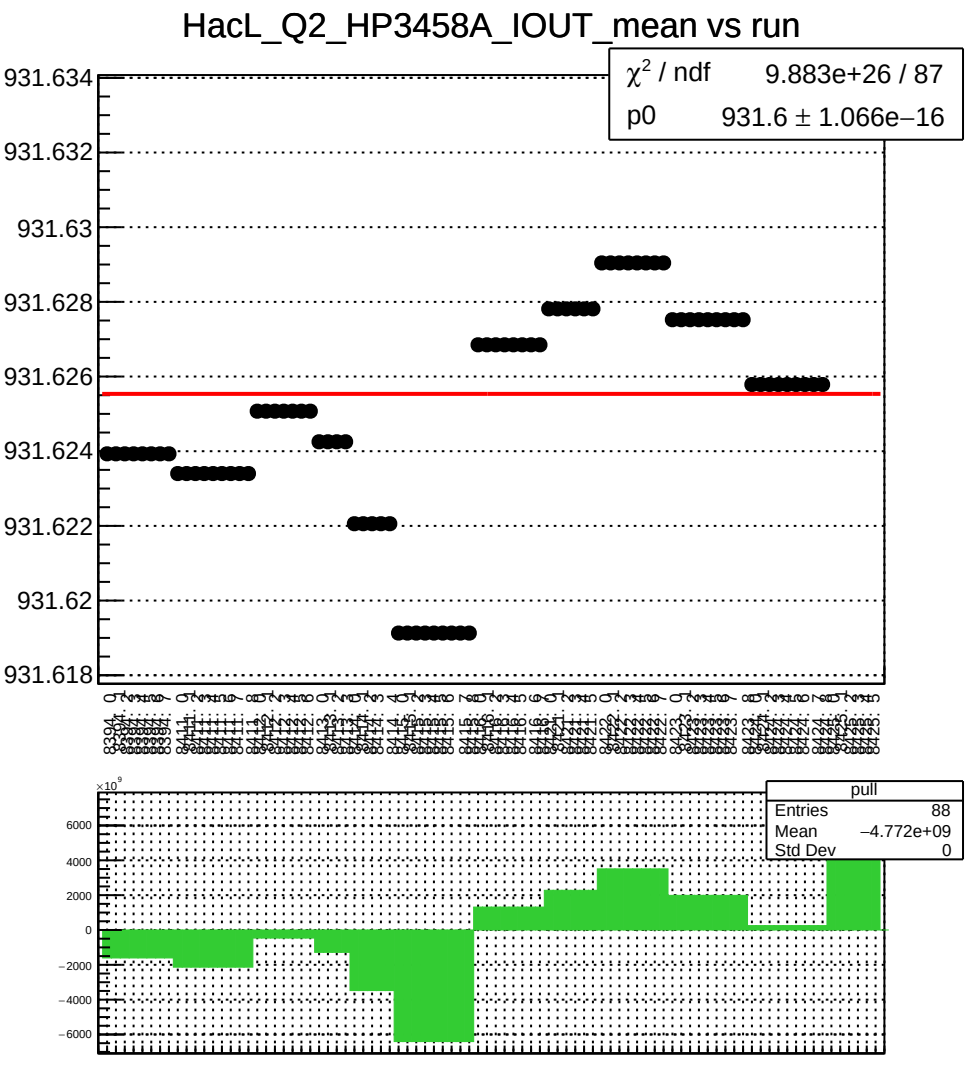

HALLA_p_mean vs run
χ² / ndf 1.123e+30 / 87
p0 2176 ± 1.066e−16
2175.95
2175.9
2175.85
2175.8
2175.75
2175.7
pull
Entries 88
Mean −9.914e+08
Std Dev 0
×10¹²
100
50
0
−50
−100
−150

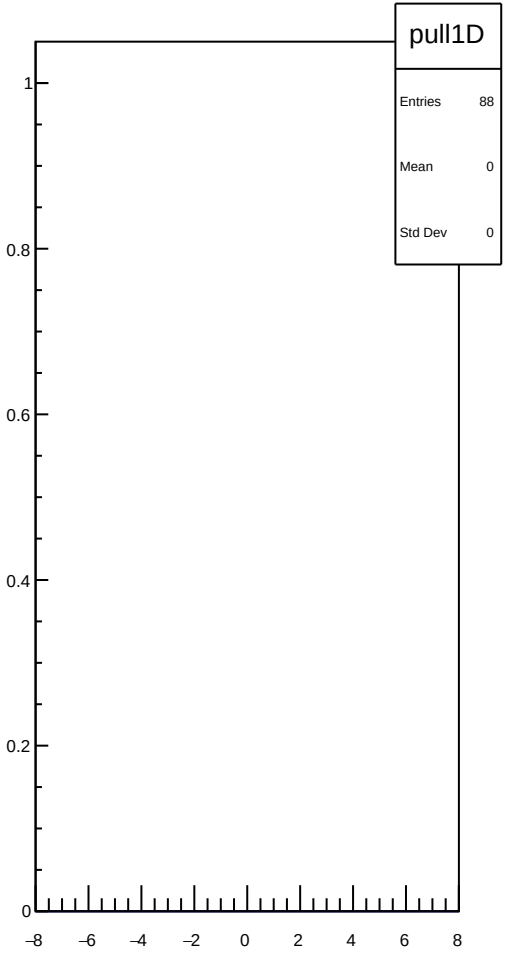

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

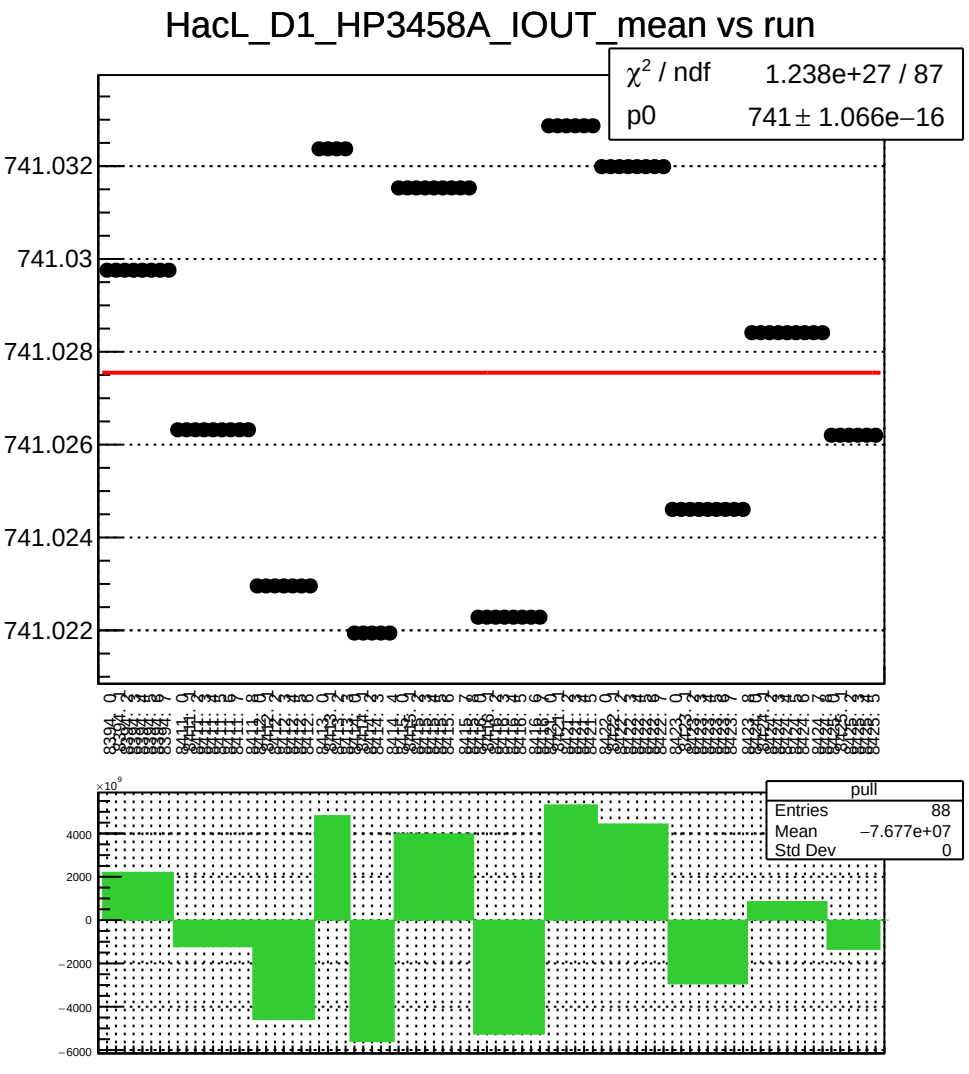

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 1.897e+23 / 87
p0 −7.613e−05 ± 1.066e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
×10⁹
80
60
40
20
0
−20
−40
pull
Entries 88
Mean 2.813e+09
Std Dev 0

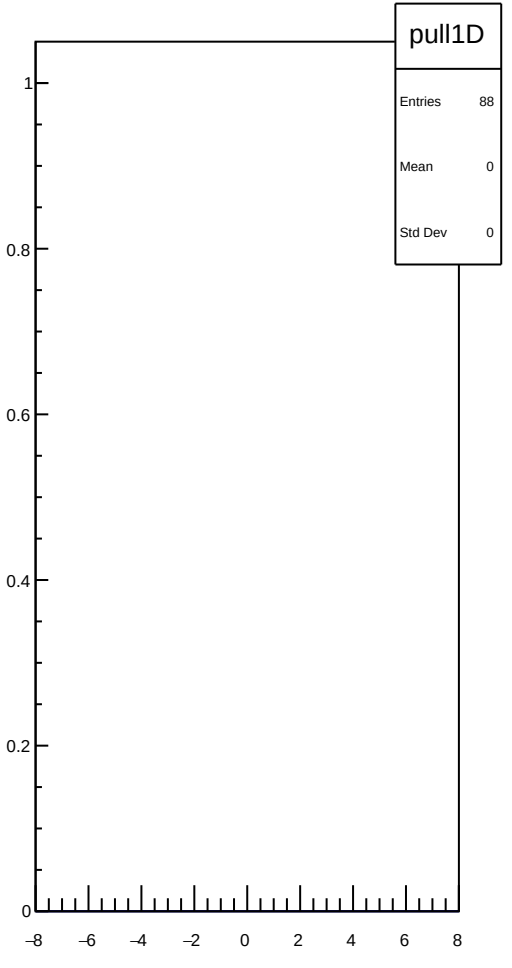

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

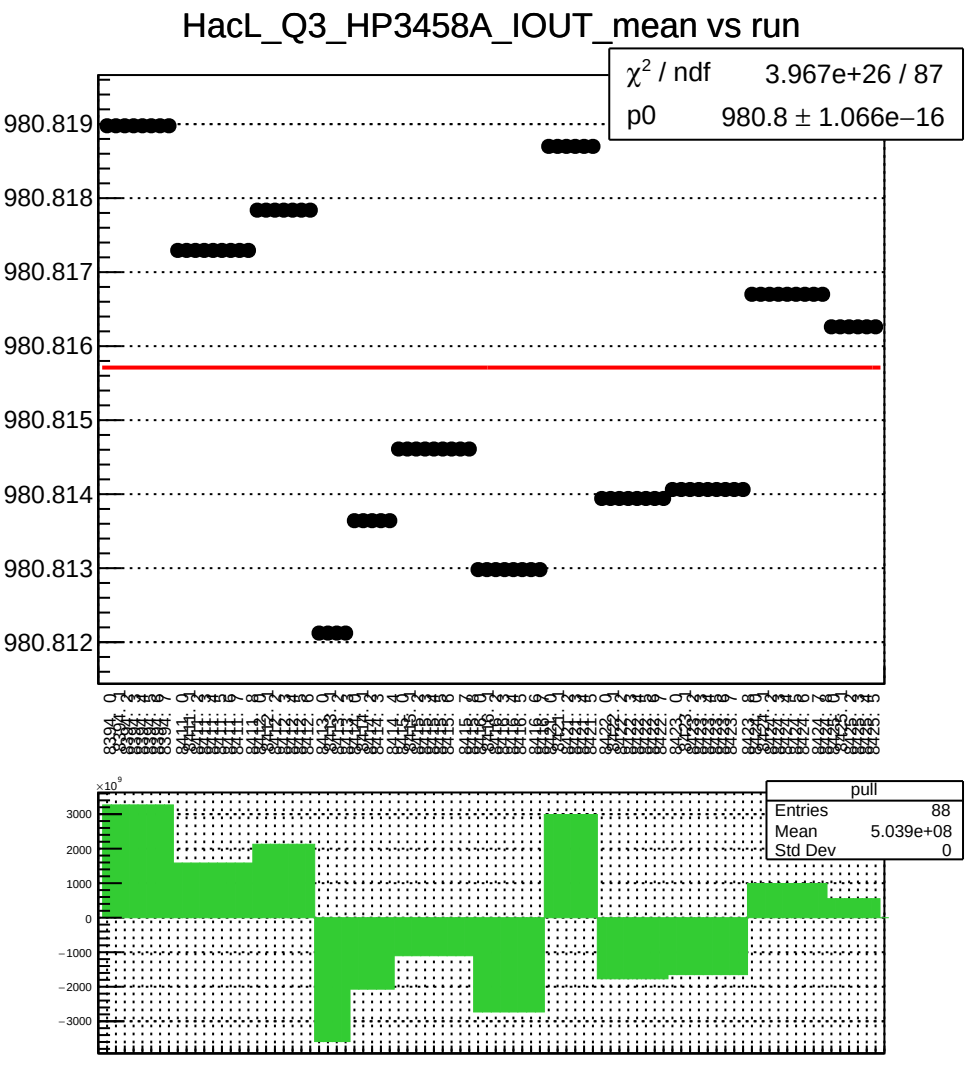

MQ171LM_mean vs run
χ² / ndf 0.04475 / 87
p0 0.009375 ± 1.066e−16
×10⁻³
9.375
pull
Entries 88
Mean 44
Std Dev 25.4
pull1D
Entries 88
Mean 0.02255
Std Dev 0

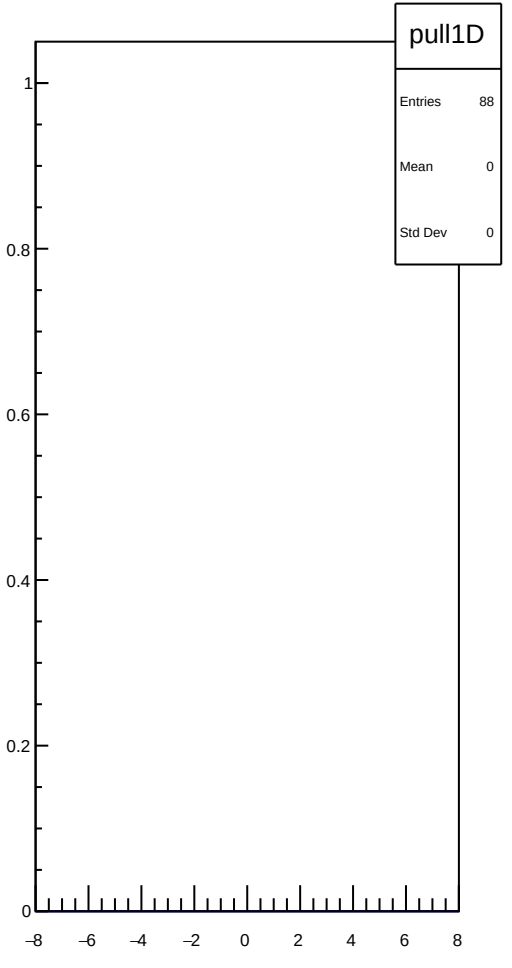

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 9.883e+26 / 87
p0 931.6 ± 1.066e−16
931.634
931.632
931.63
931.628
931.626
931.624
931.622
931.62
931.618
pull
Entries 88
Mean −4.772e+09
Std Dev 0
×10⁹
6000
4000
2000
0
−2000
−4000
−6000

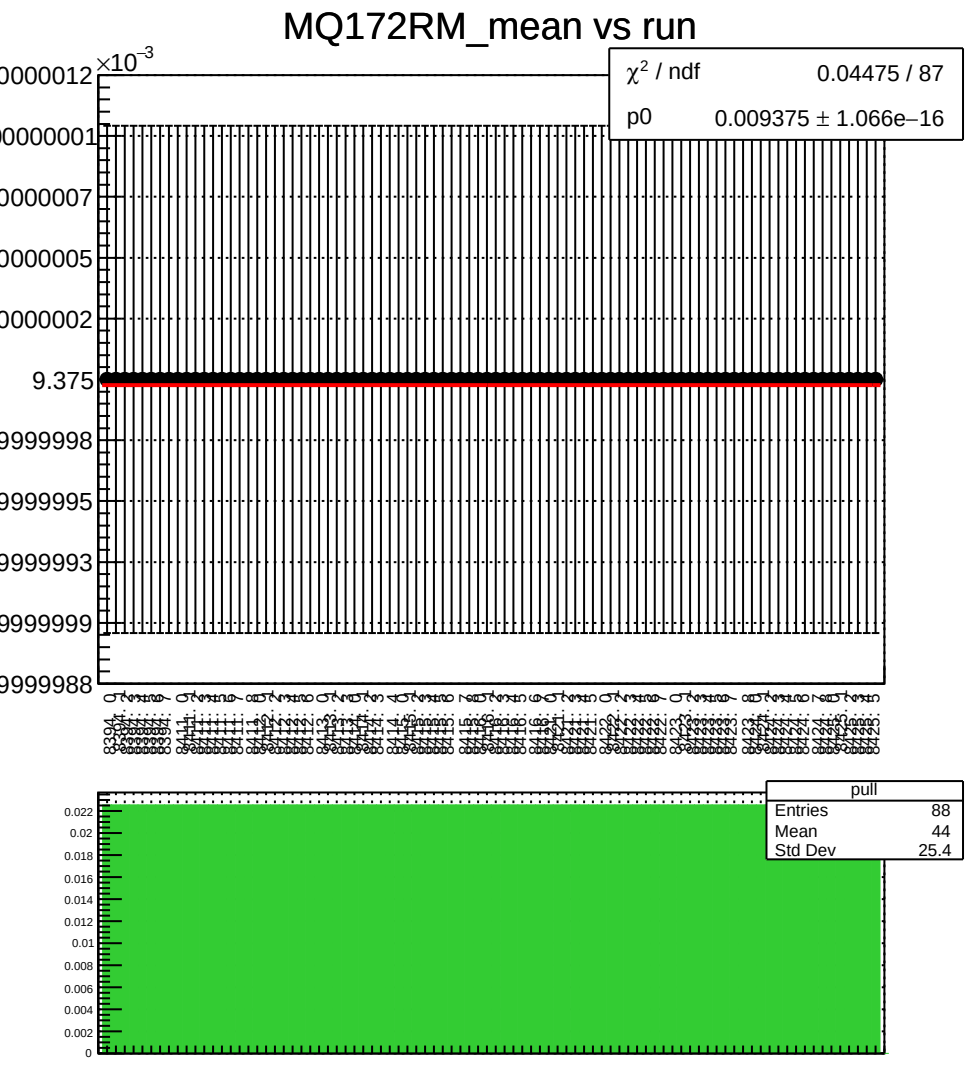

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

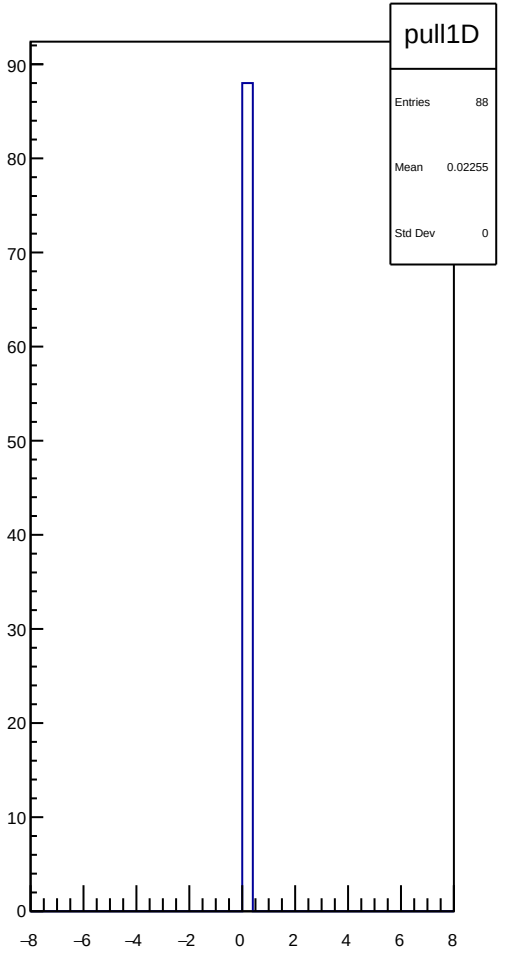

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.238e+27 / 87
p0 741 ± 1.066e−16
741.032
741.03
741.028
741.026
741.024
741.022
×10⁹
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −7.677e+07
Std Dev 0

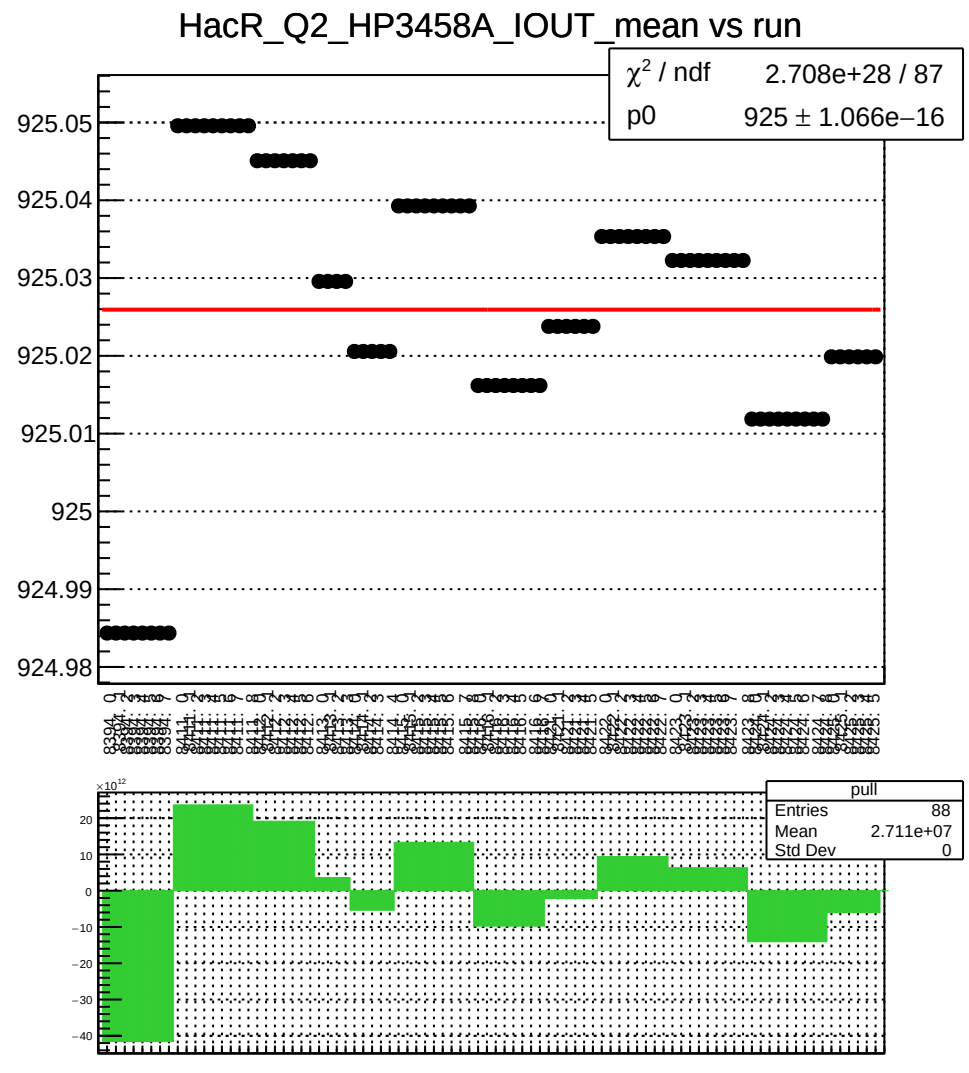

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

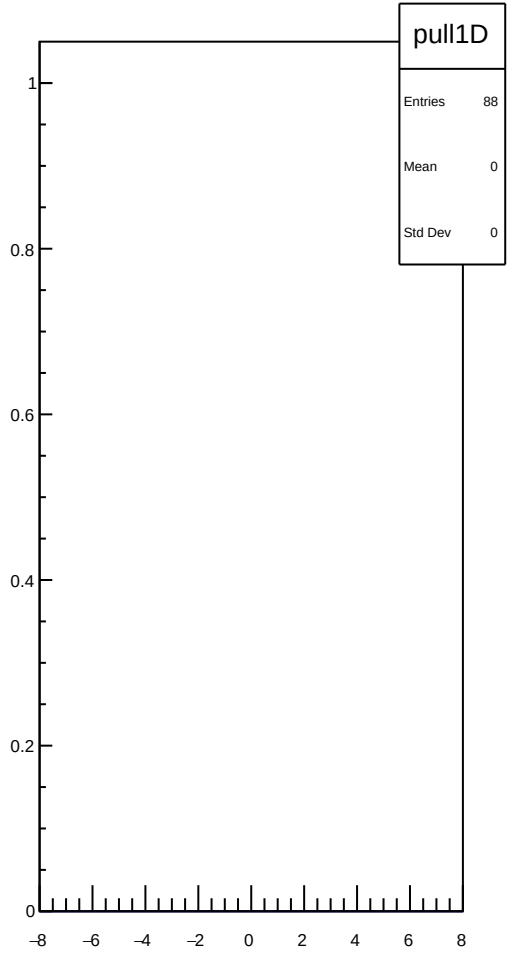

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 3.967e+26 / 87
p0 980.8 ± 1.066e−16
980.819
980.818
980.817
980.816
980.815
980.814
980.813
980.812
×10⁹
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 5.039e+08
Std Dev 0

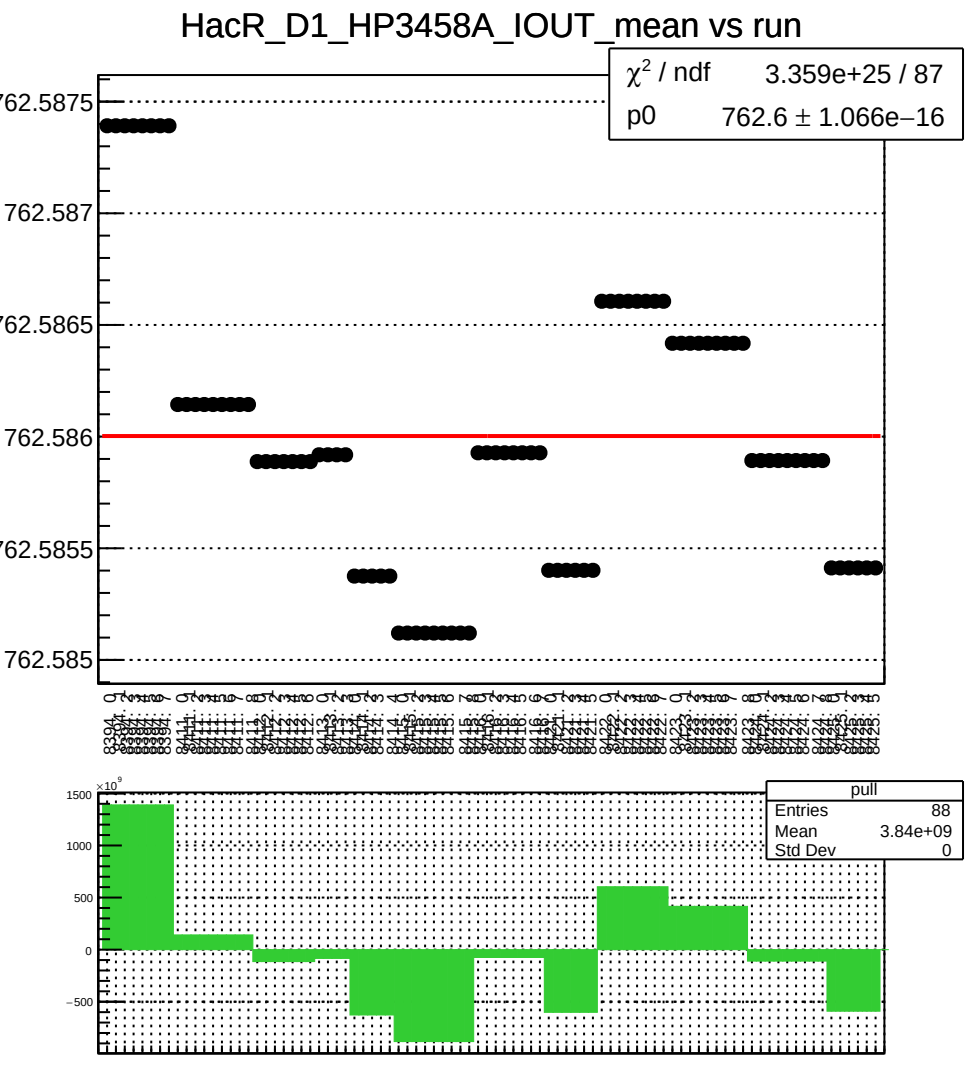

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

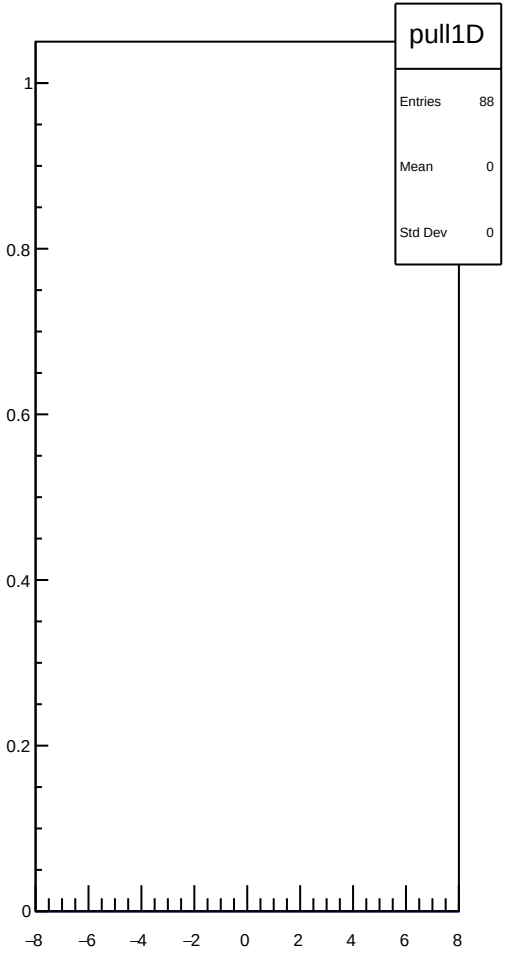

MQ172RM_mean vs run
×10⁻³
χ² / ndf 0.04475 / 87
p0 0.009375 ± 1.066e−16
9.375
pull
Entries 88
Mean 44
Std Dev 25.4

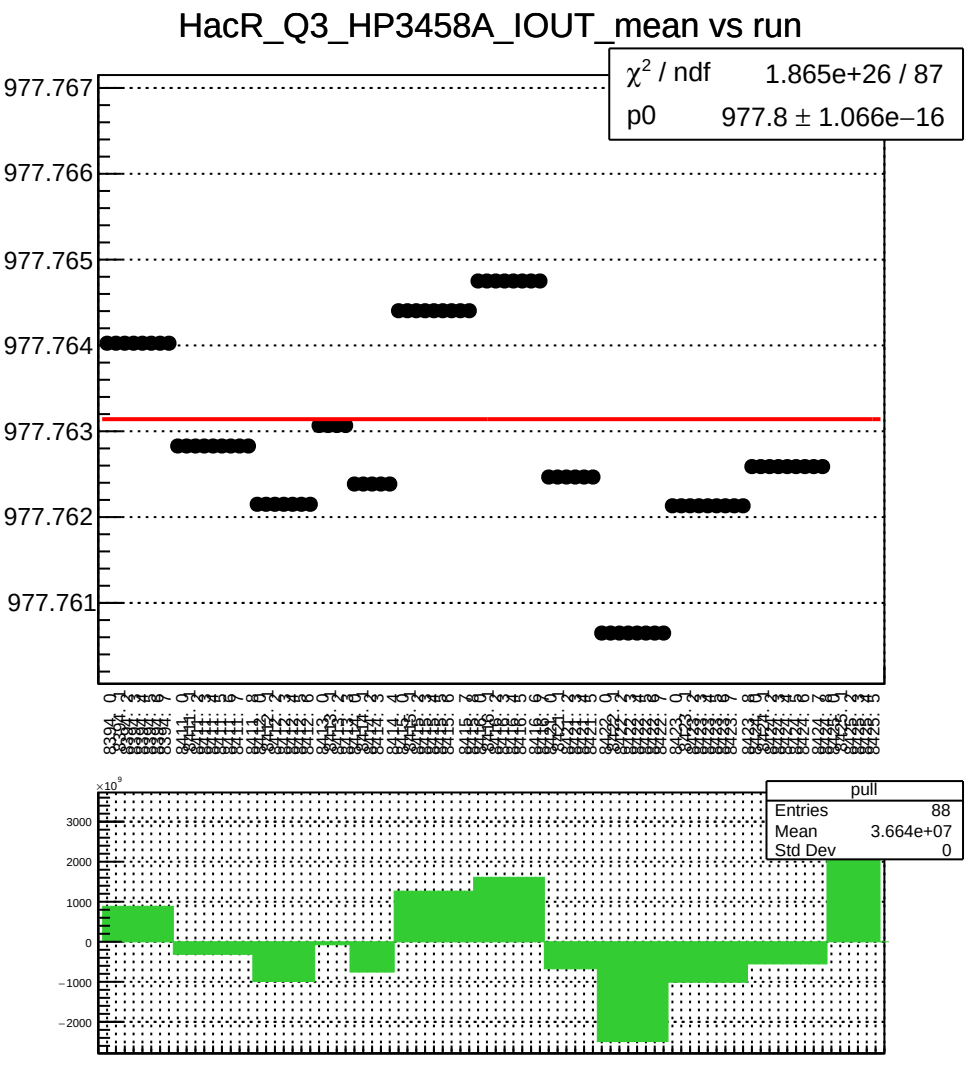

pull1D
Entries 88
Mean 0.02255
Std Dev 0

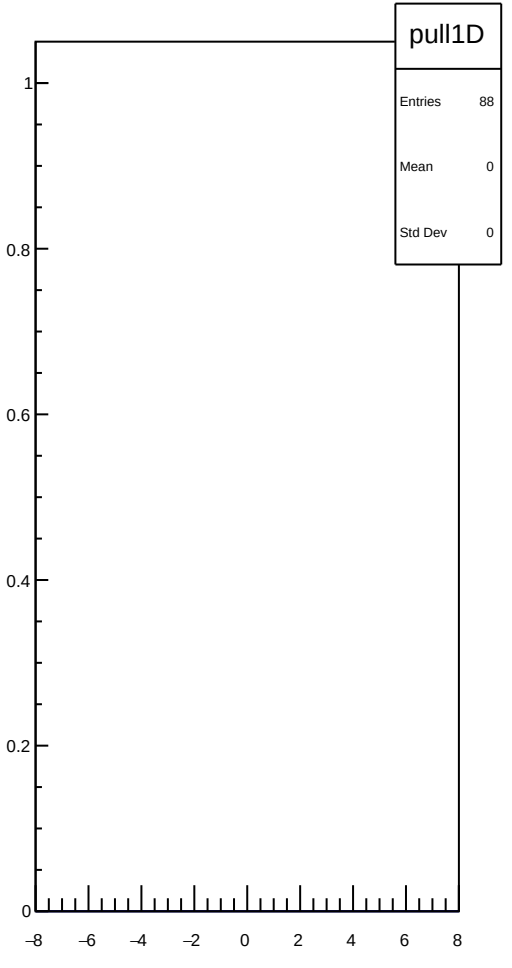

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 2.708e+28 / 87
p0 925 ± 1.066e−16
925.05
925.04
925.03
925.02
925.01
925
924.99
924.98
pull
Entries 88
Mean 2.711e+07
Std Dev 0
×10¹²
20
10
0
−10
−20
−30
−40

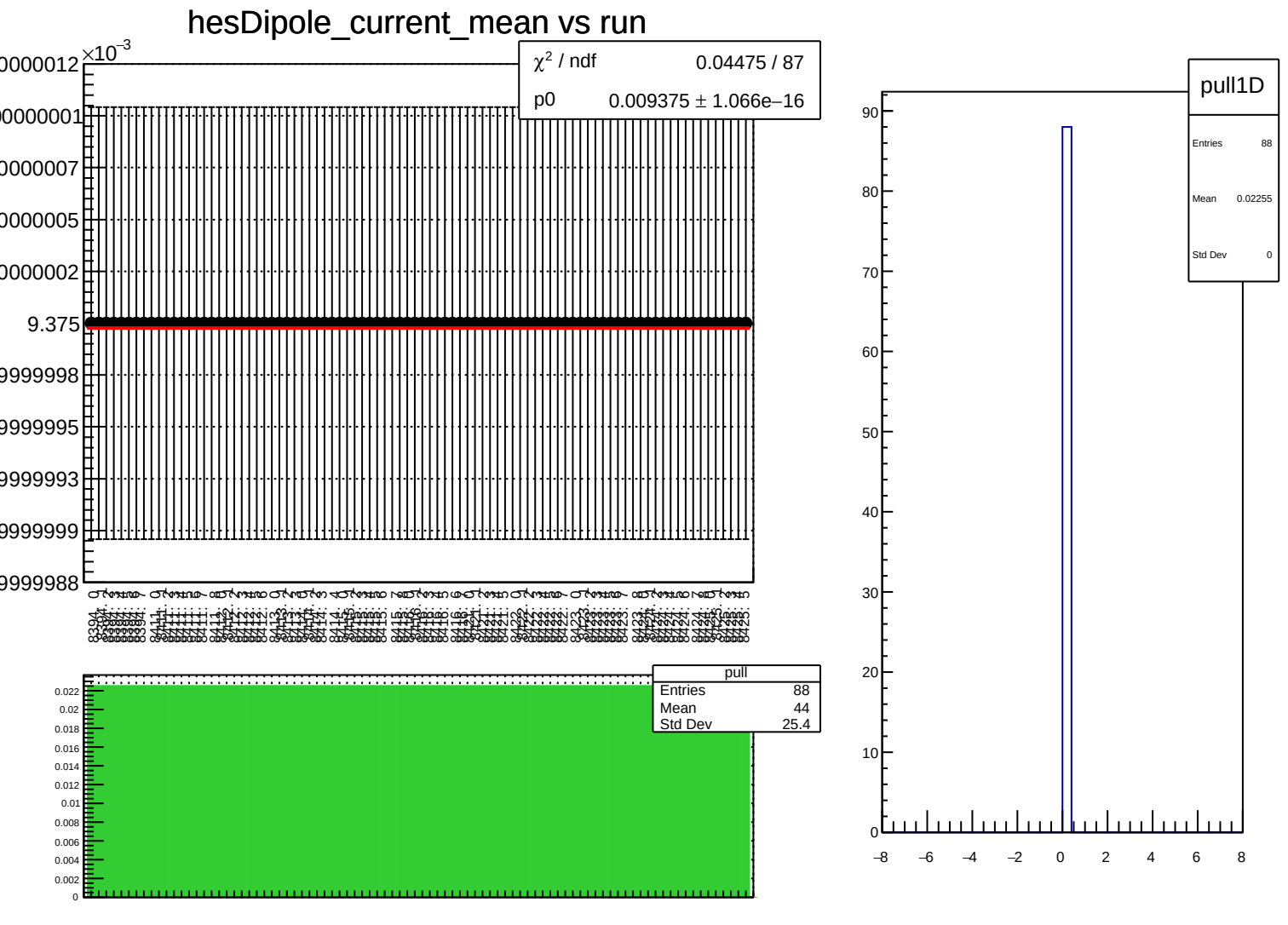

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

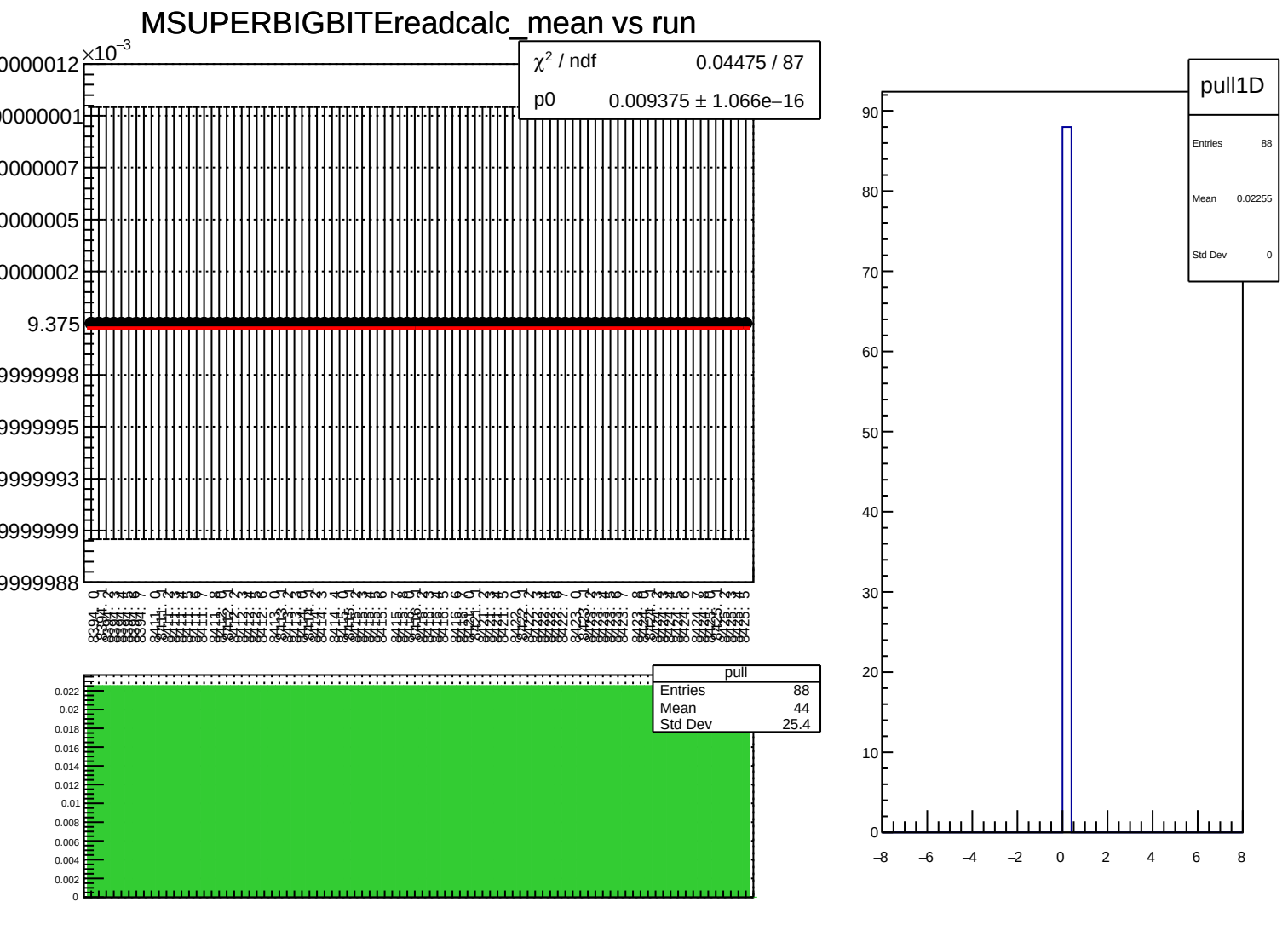

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 3.359e+25 / 87
p0 762.6 ± 1.066e−16
762.5875
762.587
762.5865
762.586
762.5855
762.585
pull
Entries 88
Mean 3.84e+09
Std Dev 0
×10⁹
1500
1000
500
0
−500

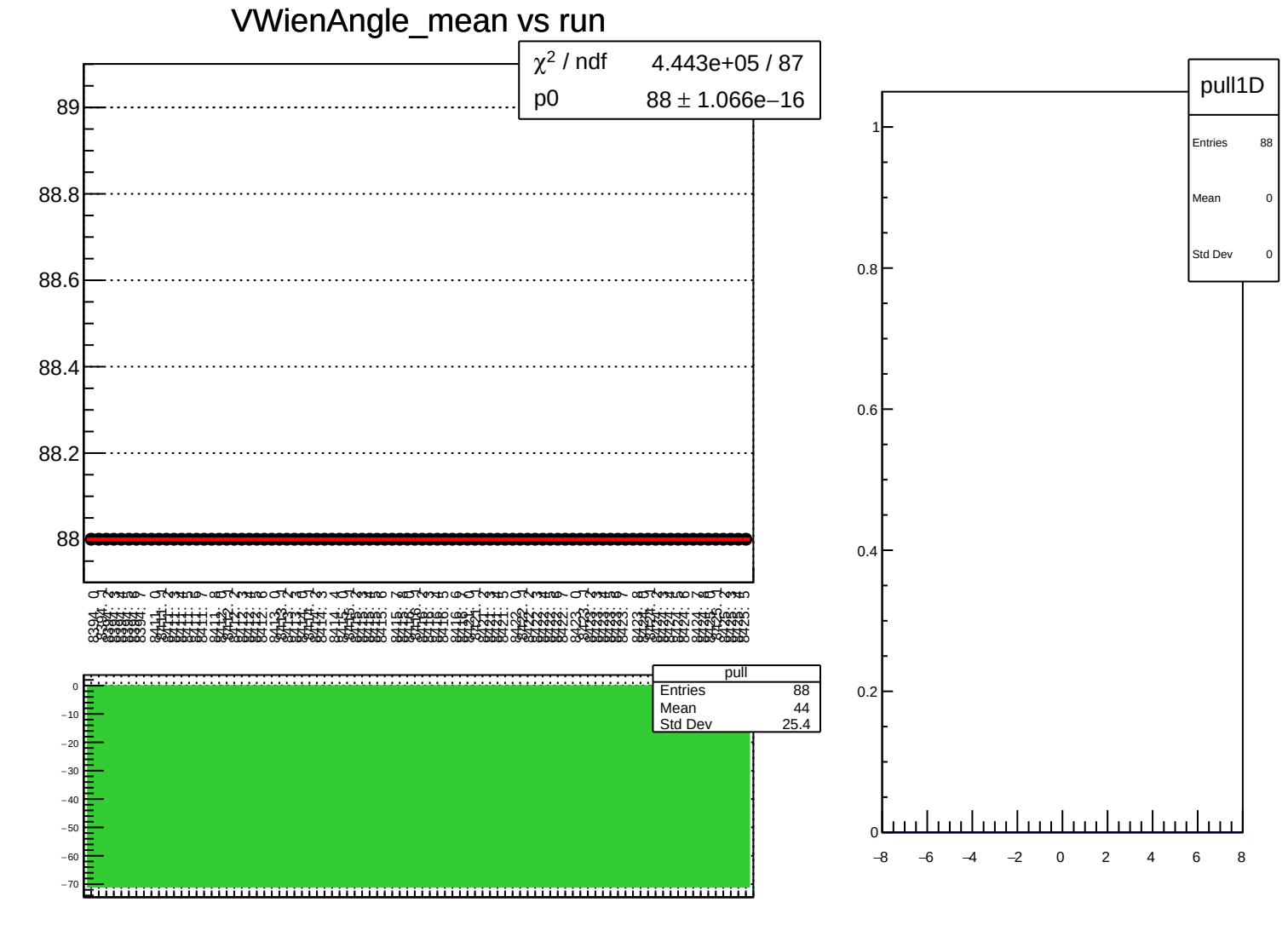

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

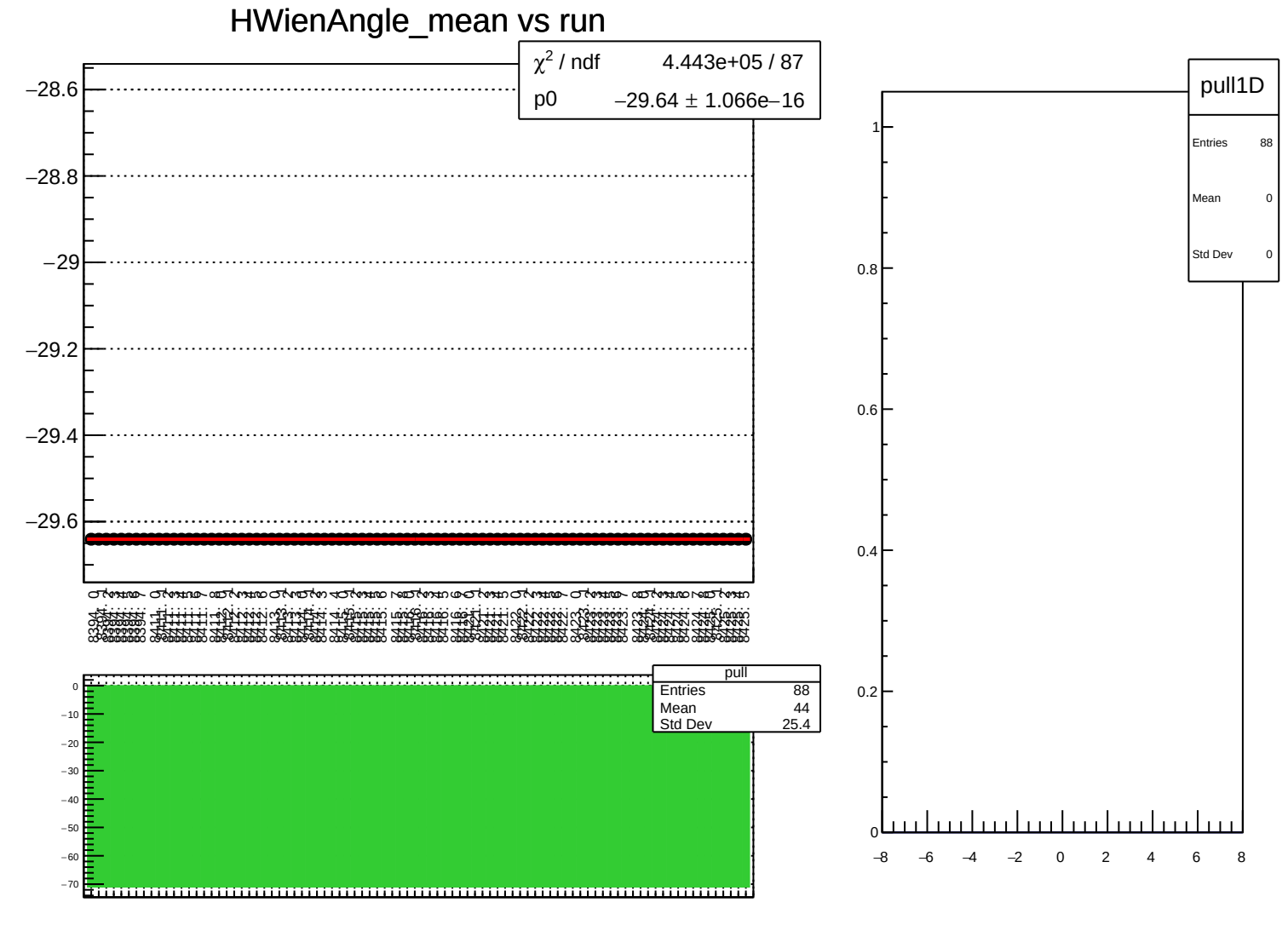

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.865e+26 / 87
p0 977.8 ± 1.066e−16
977.767
977.766
977.765
977.764
977.763
977.762
977.761
pull
Entries 88
Mean 3.664e+07
Std Dev 0
×10⁹
3000
2000
1000
0
−1000
−2000

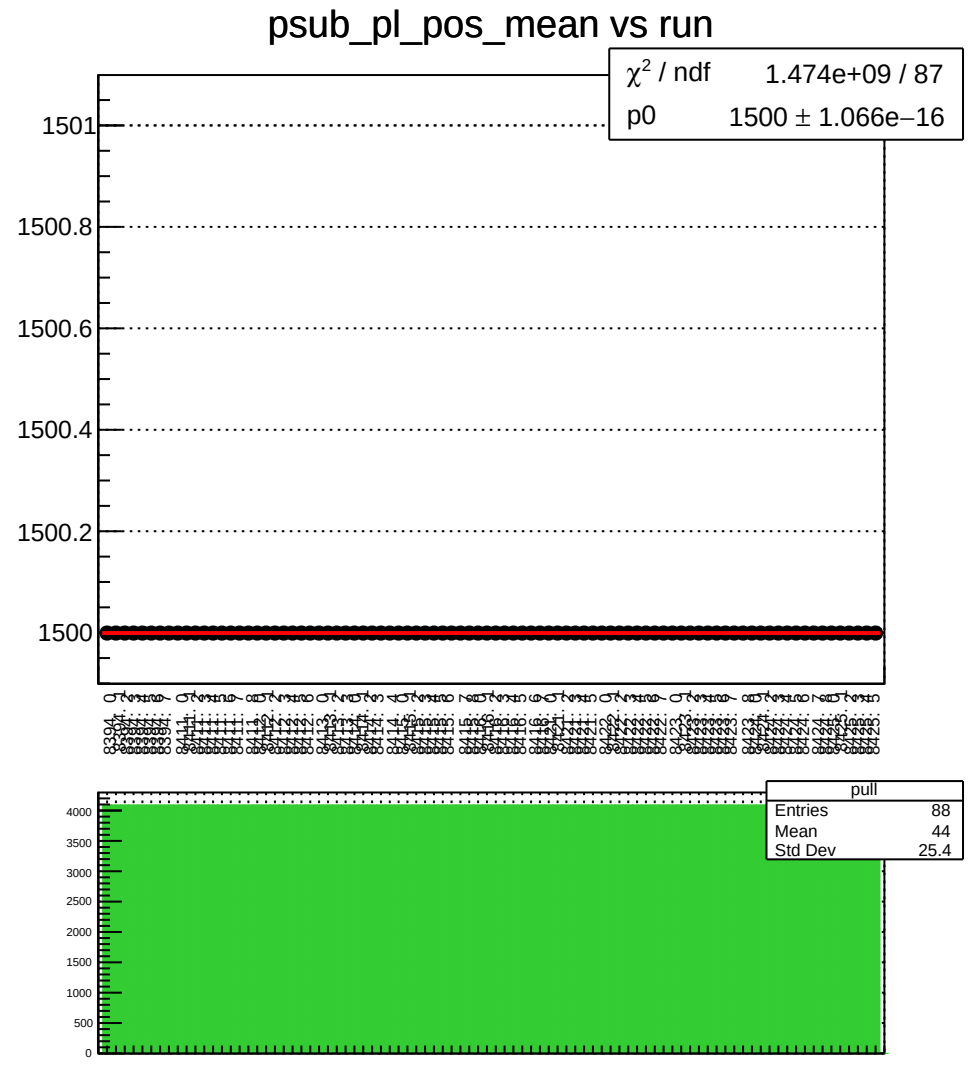

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

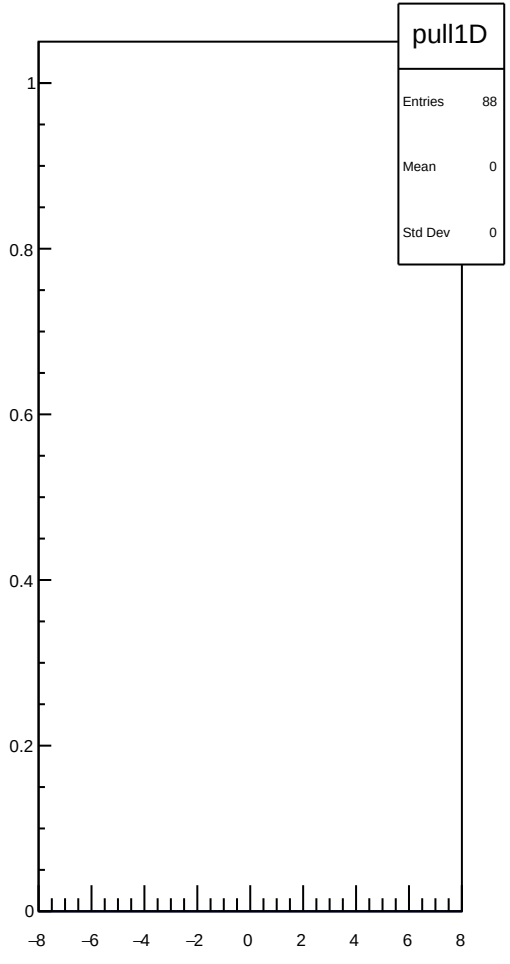

hesDipole_current_mean vs run
×10⁻³
χ² / ndf 0.04475 / 87
p0 0.009375 ± 1.066e−16
pull
Entries 88
Mean 44
Std Dev 25.4
pull1D
Entries 88
Mean 0.02255
Std Dev 0

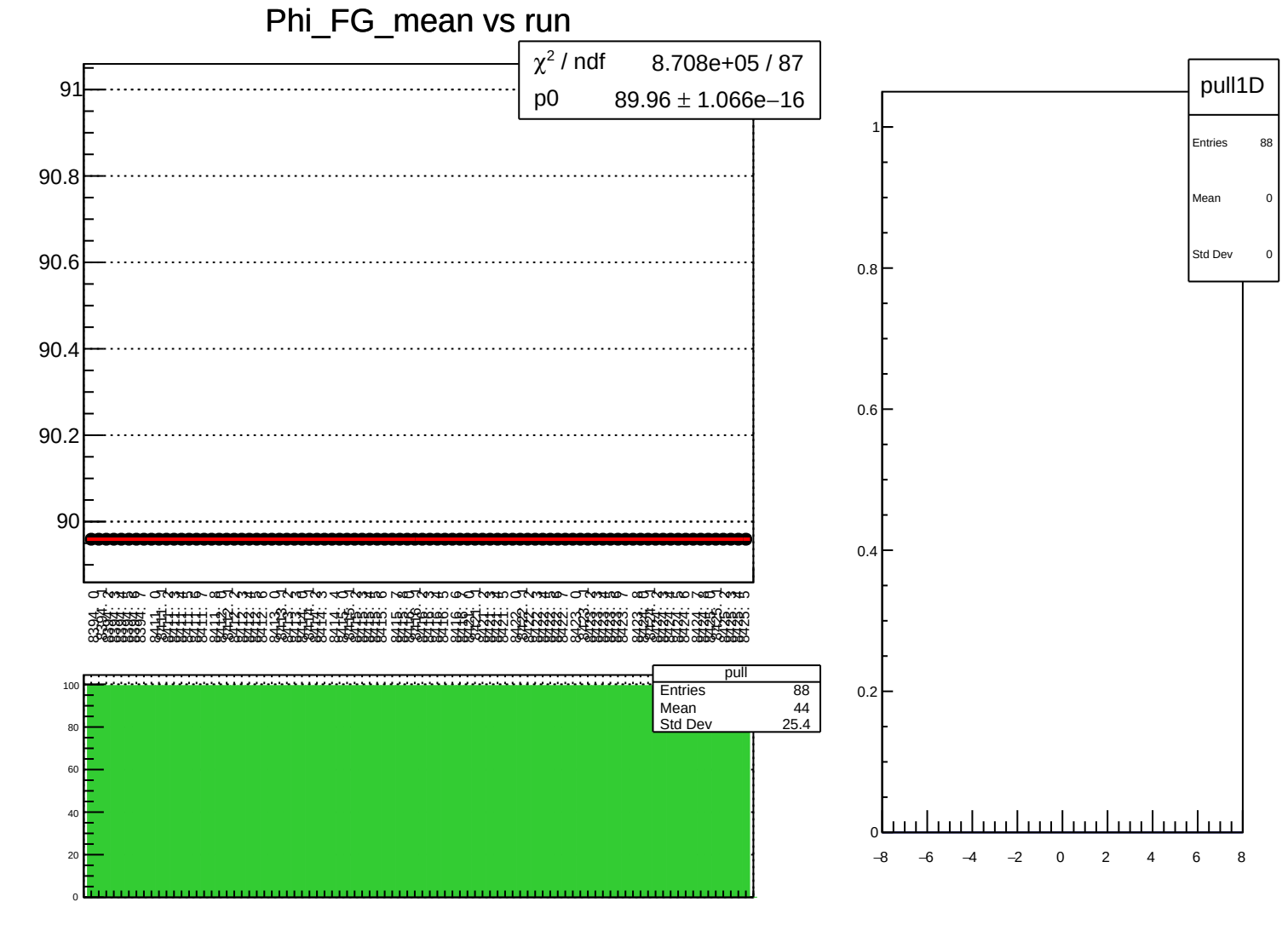

MSUPERBIGBITEreadcalc_mean vs run
×10⁻³
χ² / ndf 0.04475 / 87
p0 0.009375 ± 1.066e−16
pull
Entries 88
Mean 44
Std Dev 25.4
pull1D
Entries 88
Mean 0.02255
Std Dev 0

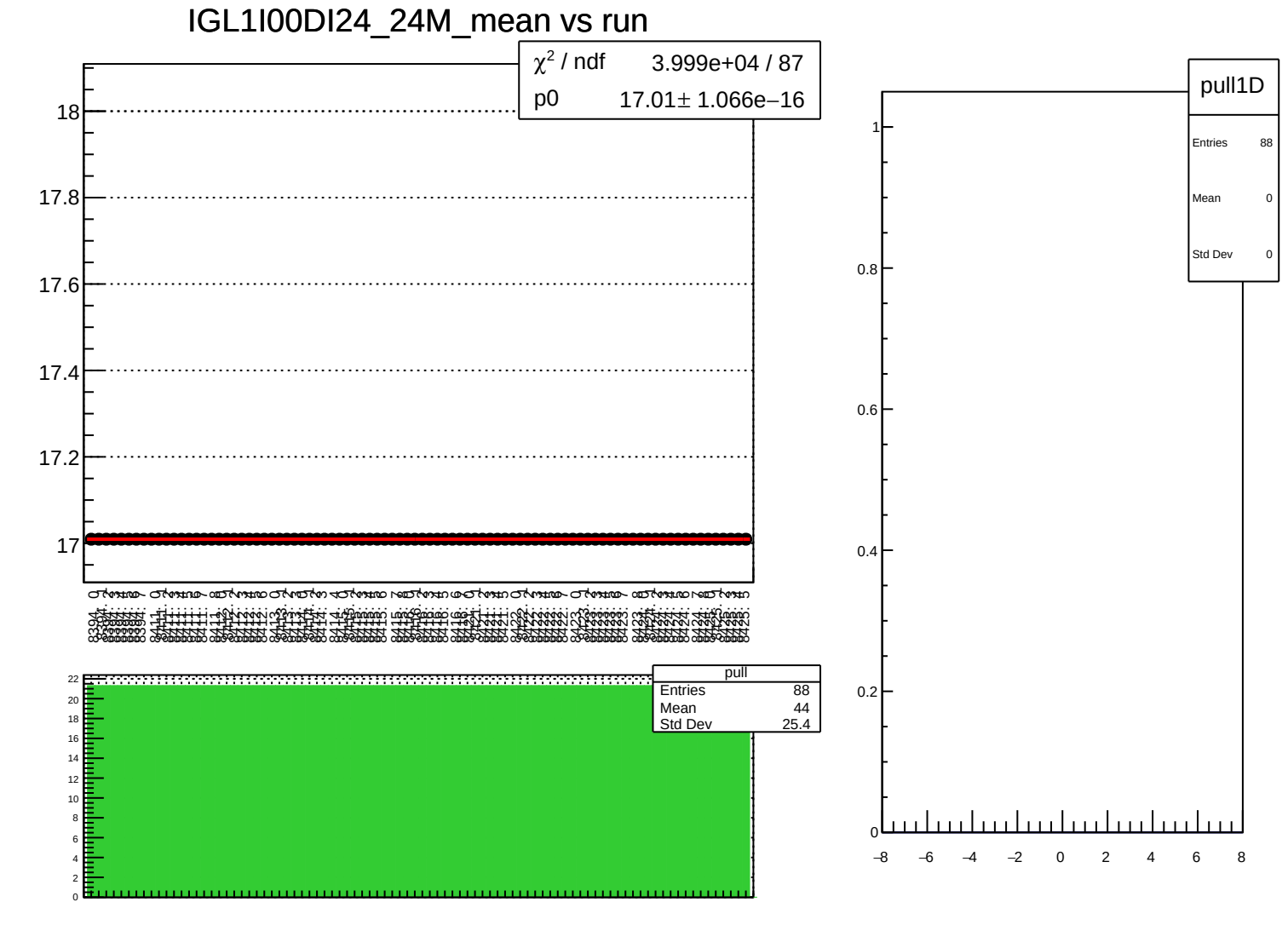

VWienAngle_mean vs run
χ² / ndf 4.443e+05 / 87
p0 88 ± 1.066e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 88
Mean 44
Std Dev 25.4
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

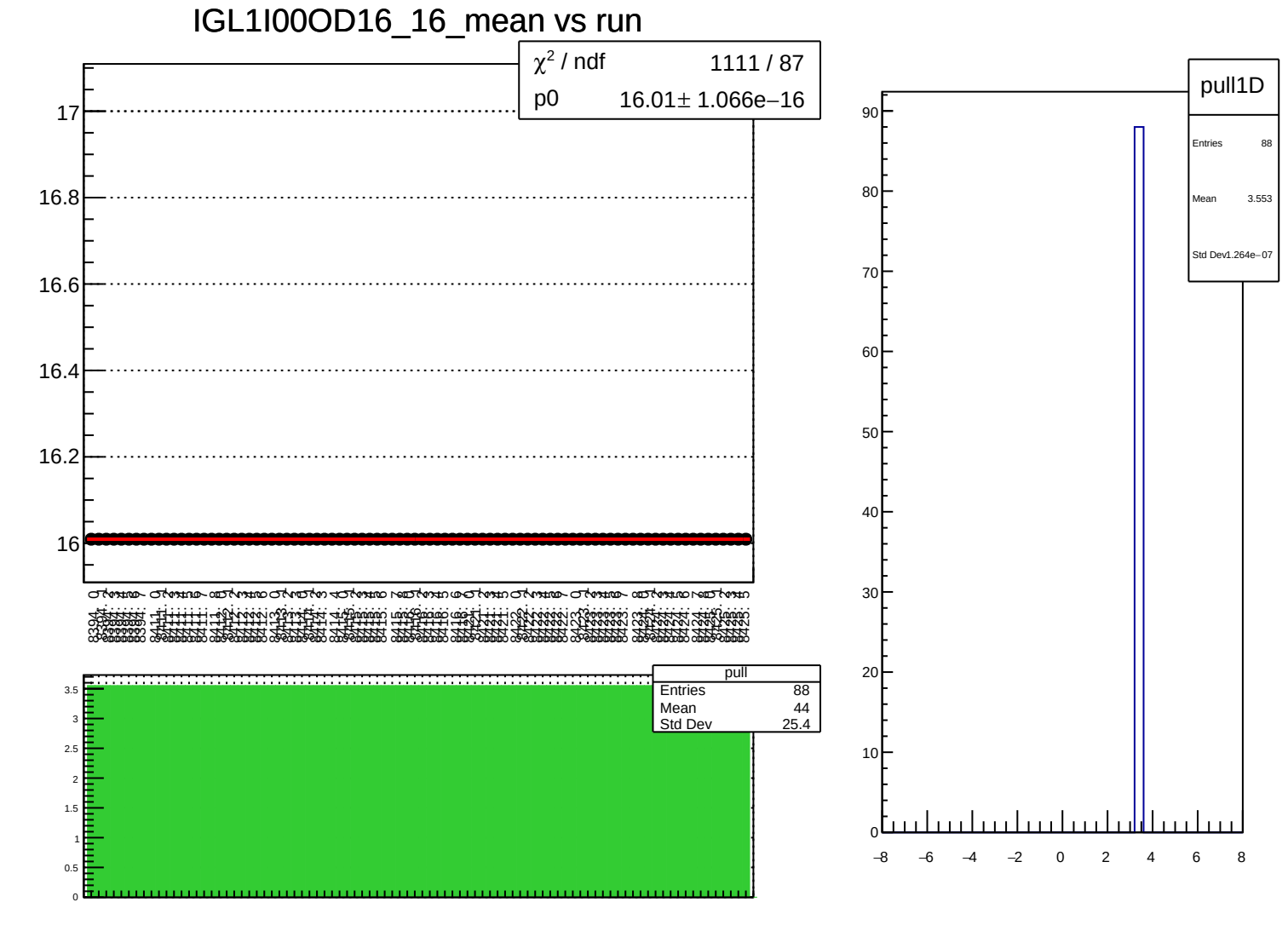

HWienAngle_mean vs run
χ² / ndf 4.443e+05 / 87
p0 −29.64 ± 1.066e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 88
Mean 44
Std Dev 25.4
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

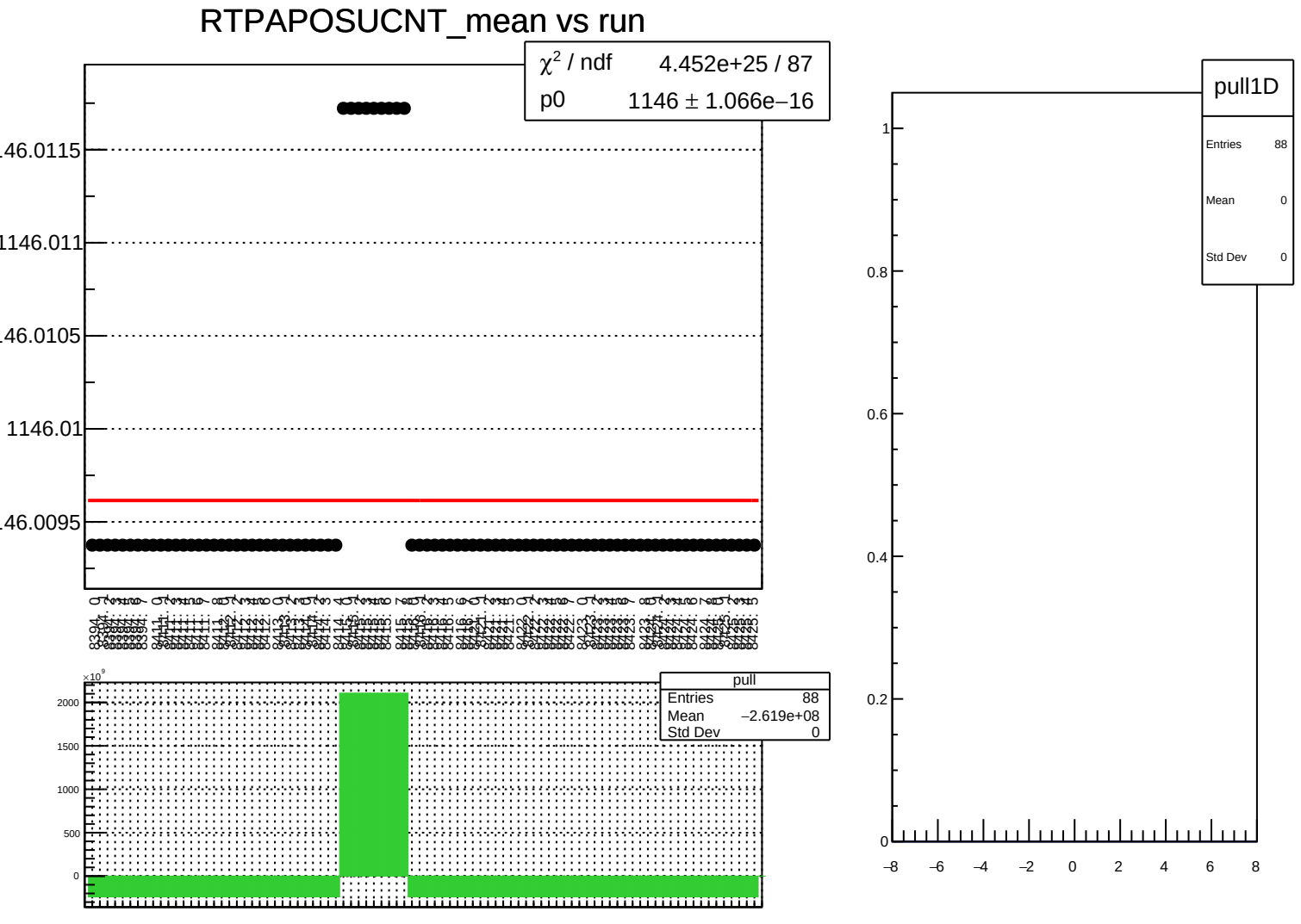

psub_pl_pos_mean vs run
χ² / ndf 1.474e+09 / 87
p0 1500 ± 1.066e−16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 88
Mean 44
Std Dev 25.4
4000
3500
3000
2500
2000
1500
1000
500
0

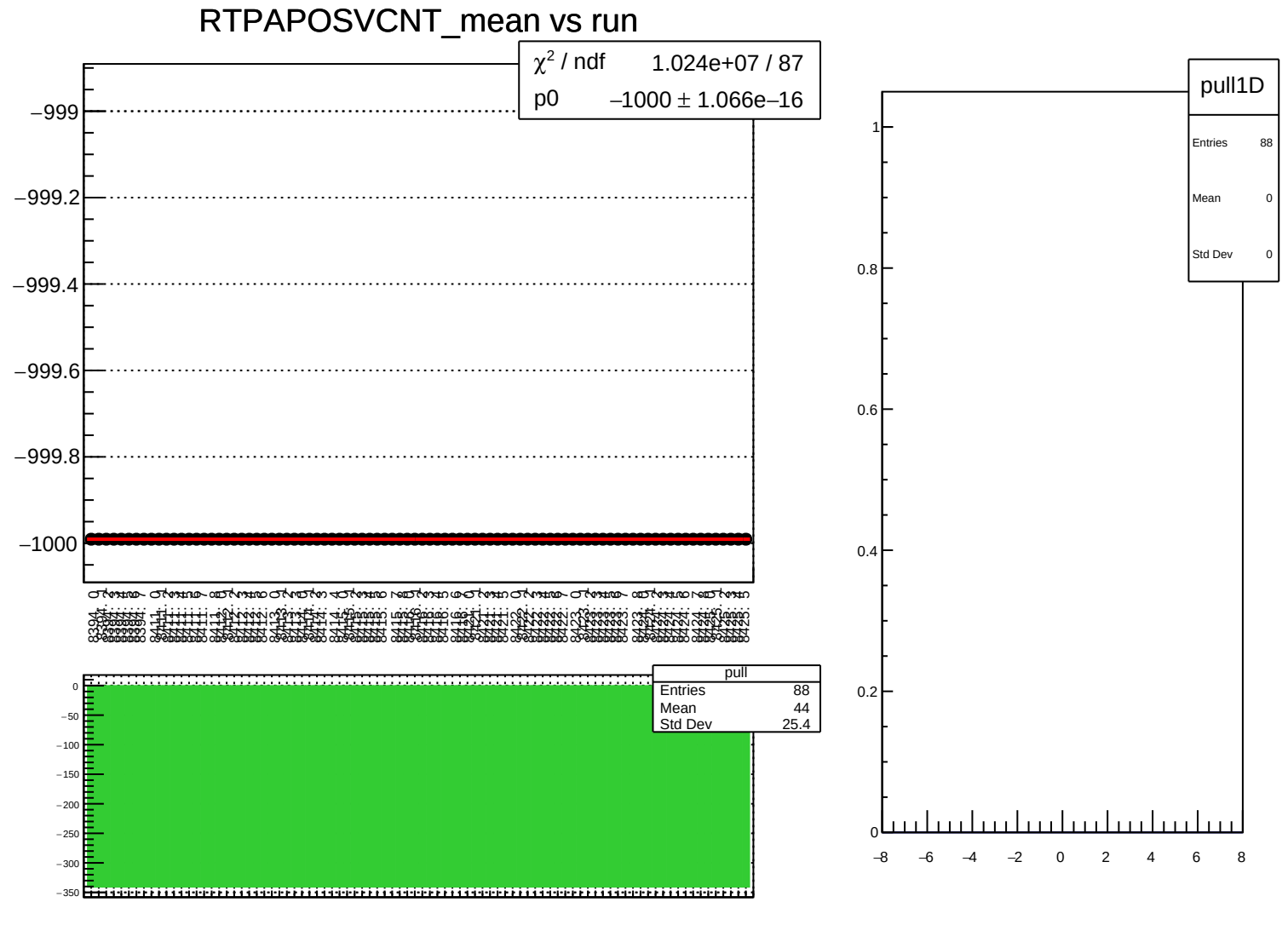

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

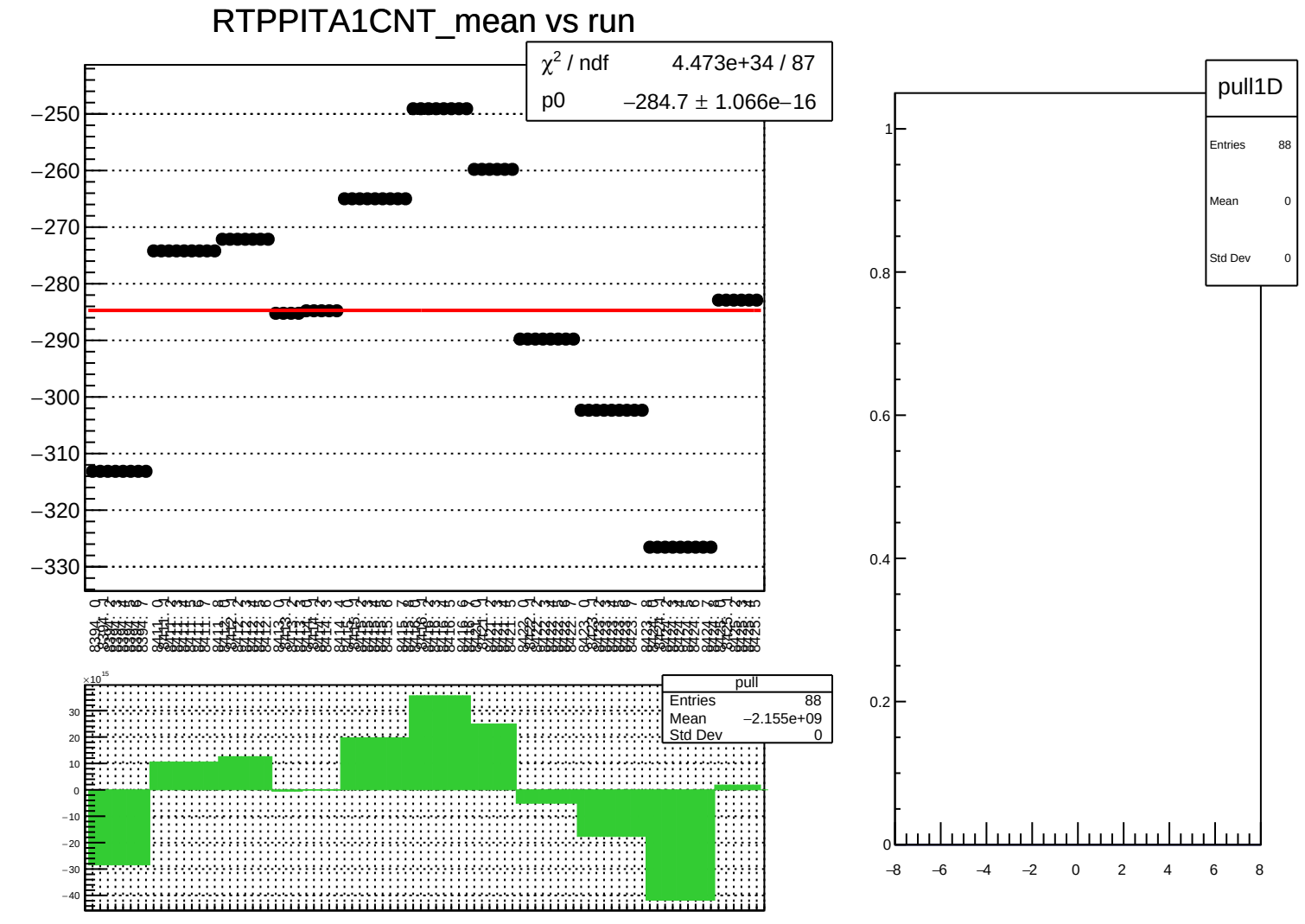

Phi_FG_mean vs run
χ² / ndf 8.708e+05 / 87
p0 89.96 ± 1.066e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 88
Mean 44
Std Dev 25.4
100
80
60
40
20
0
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

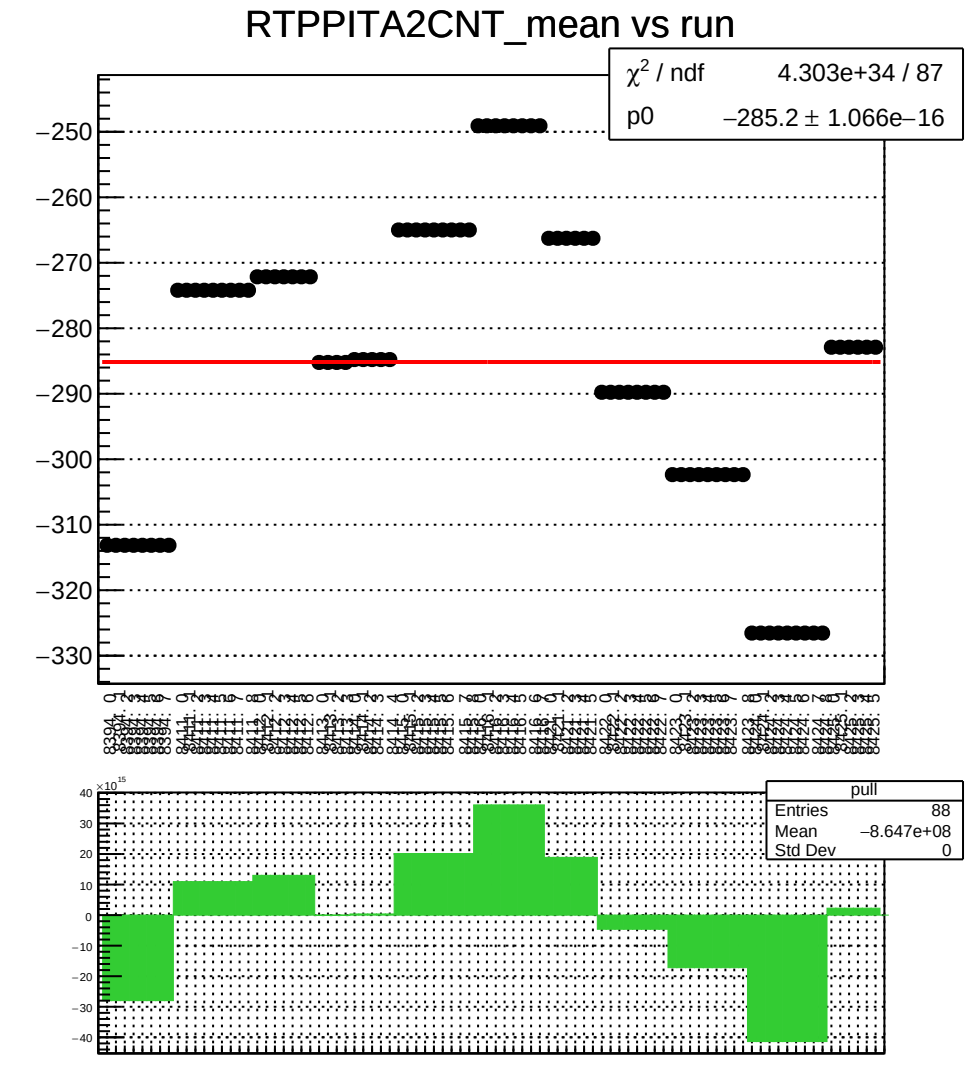

IGL1I00DI24_24M_mean vs run
χ² / ndf 3.999e+04 / 87
p0 17.01± 1.066e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 88
Mean 44
Std Dev 25.4
22
20
18
16
14
12
10
8
6
4
2
0
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

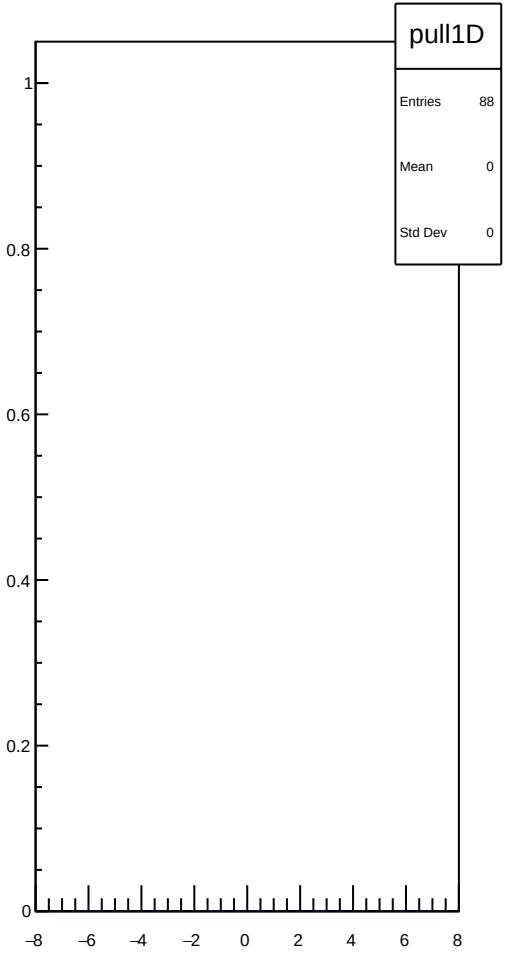

IGL1I00OD16_16_mean vs run
χ² / ndf 1111 / 87
p0 16.01± 1.066e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 88
Mean 44
Std Dev 25.4
3.5
3
2.5
2
1.5
1
0.5
0
pull1D
Entries 88
Mean 3.553
Std Dev1.264e−07
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSUCNT_mean vs run
χ² / ndf 4.452e+25 / 87
p0 1146 ± 1.066e−16
1146.0115
1146.011
1146.0105
1146.01
1146.0095
pull
Entries 88
Mean −2.619e+08
Std Dev 0
×10⁹
2000
1500
1000
500
0
pull1D
Entries 88
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 1.024e+07 / 87
p0 −1000 ± 1.066e−16
−999
−999.2
−999.4
−999.6
−999.8
−1000
pull
Entries 88
Mean 44
Std Dev 25.4
0
−50
−100
−150
−200
−250
−300
−350
pull1D
Entries 88
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 4.473e+34 / 87
p0 −284.7 ± 1.066e−16
−250
−260
−270
−280
−290
−300
−310
−320
−330
pull
Entries 88
Mean −2.155e+09
Std Dev 0
×10¹⁵
30
20
10
0
−10
−20
−30
−40
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPPITA2CNT_mean vs run
χ² / ndf 4.303e+34 / 87
p0 −285.2 ± 1.066e−16
pull
Entries 88
Mean −8.647e+08
Std Dev 0
×10¹⁵


pull1D
Entries 88
Mean 0
Std Dev 0